



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: 3D Printer

Test Model: Anycubic Kobra 2 Plus

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





A.1 -20dB Bandwidth

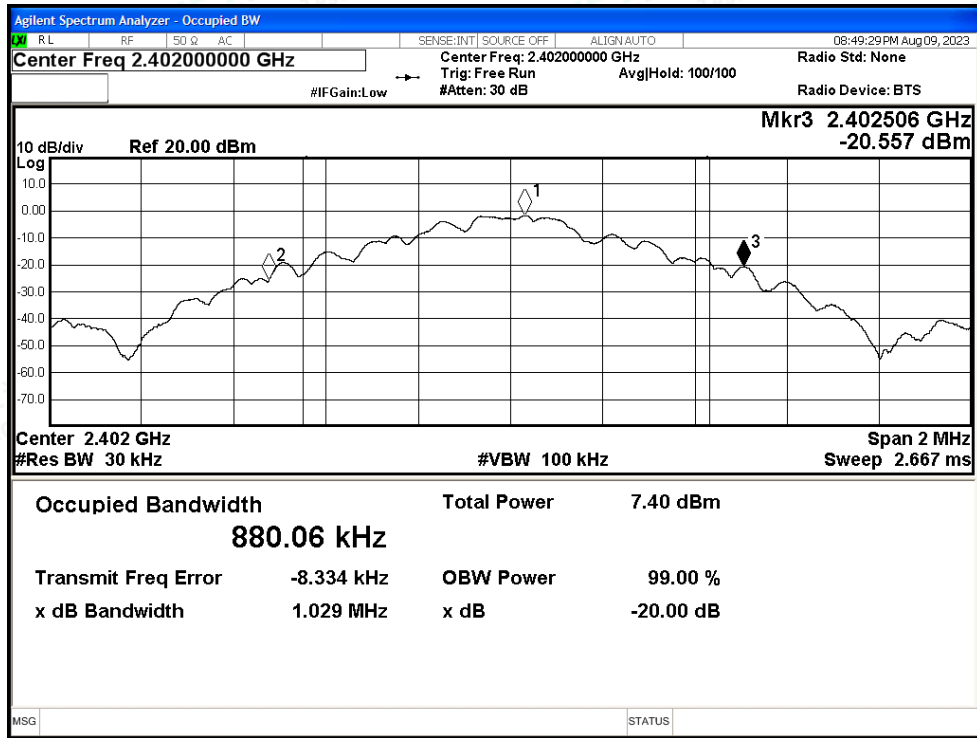
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.029	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.03	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.03	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.282	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.277	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.308	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.288	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.286	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.286	N/A	Pass



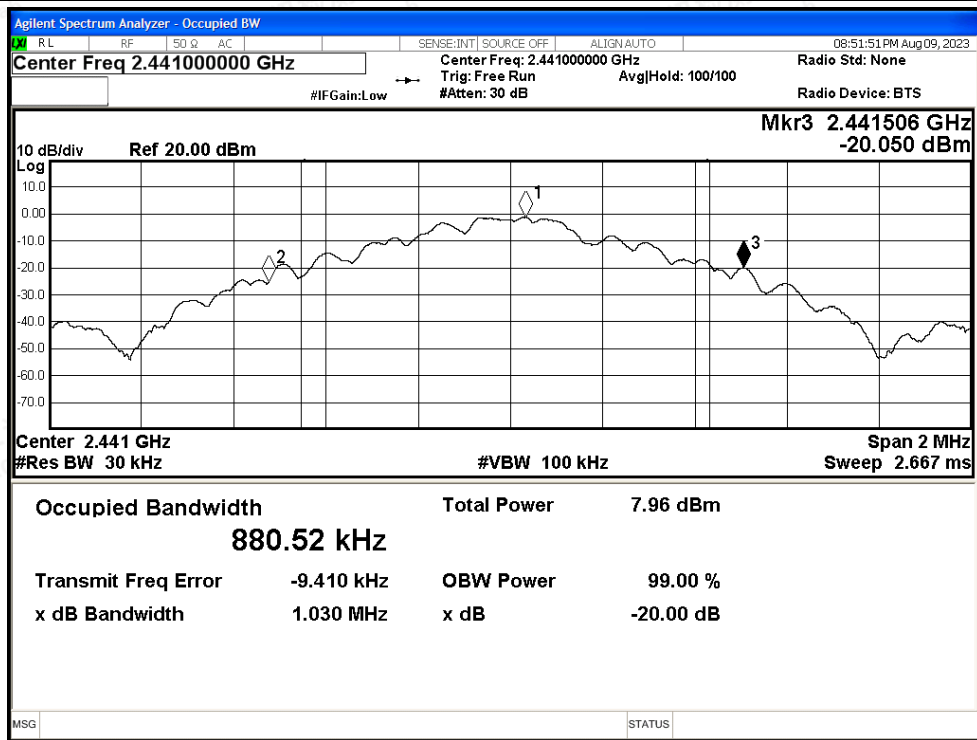


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

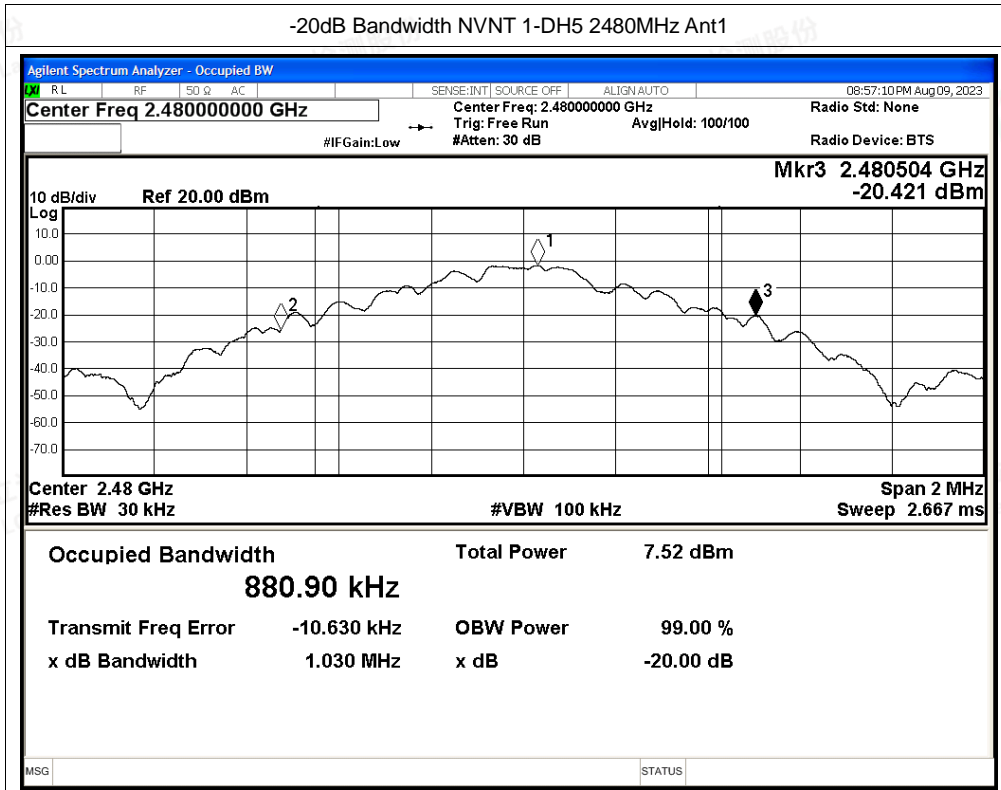


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

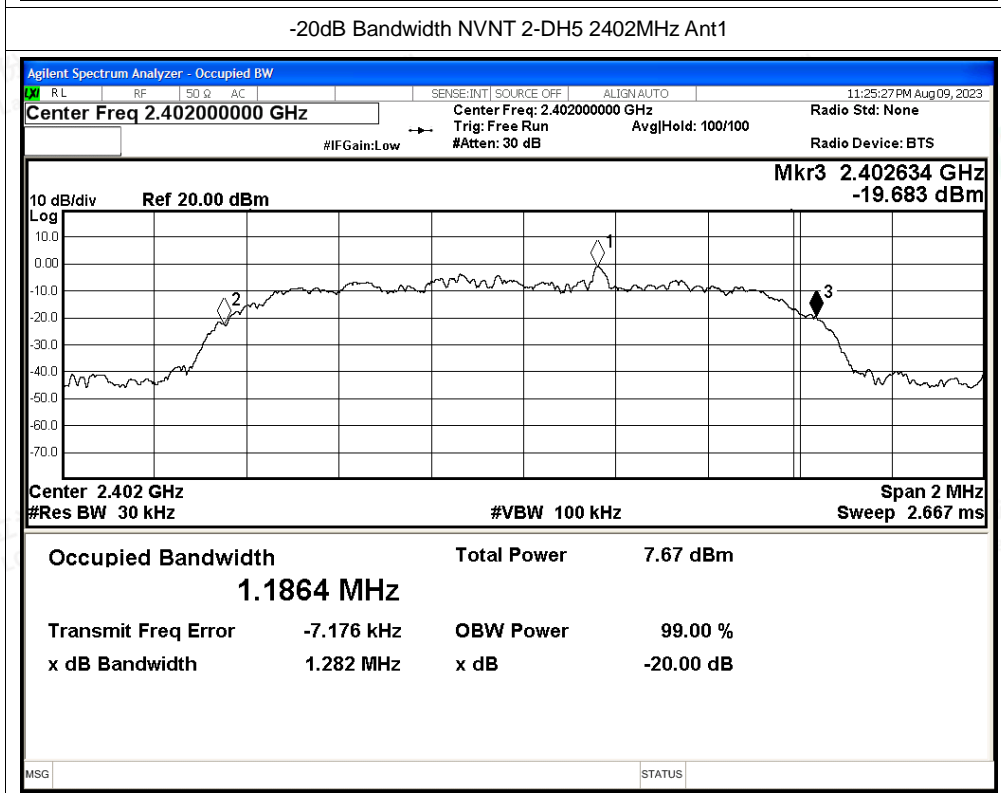




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

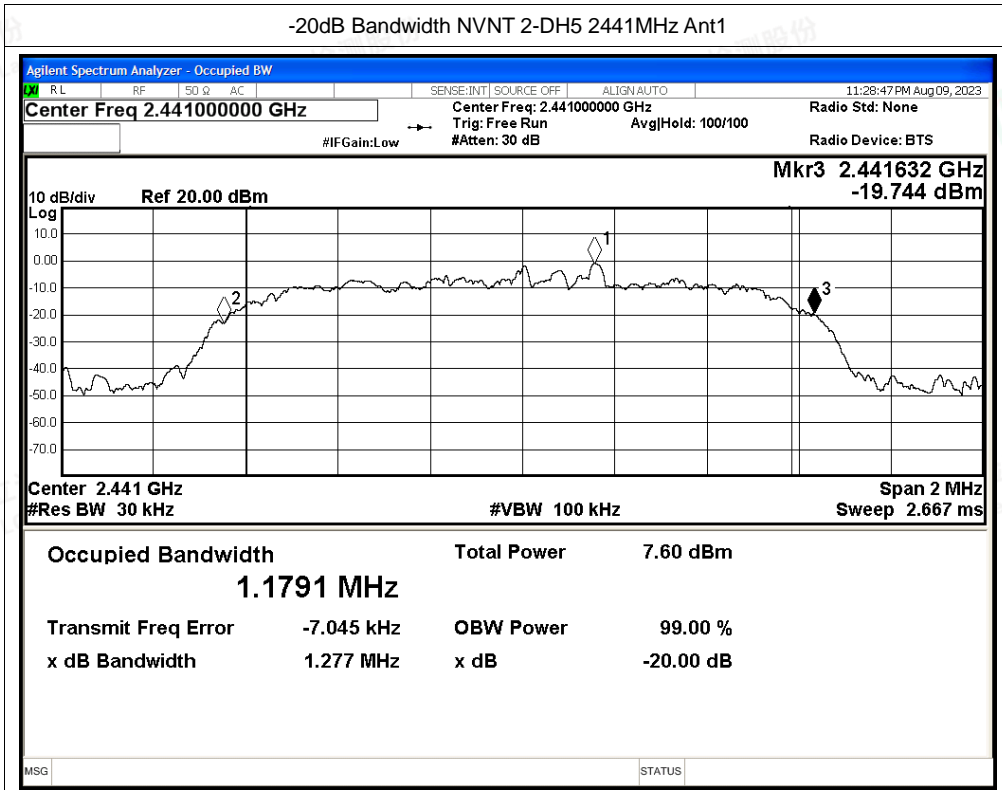


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

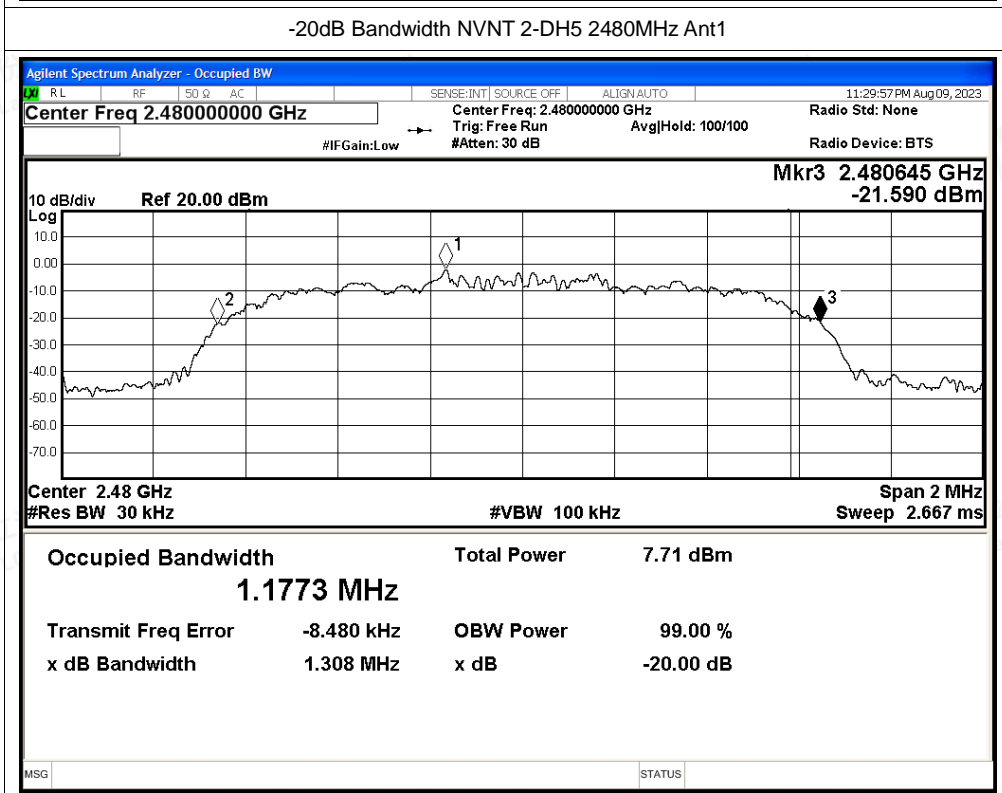




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

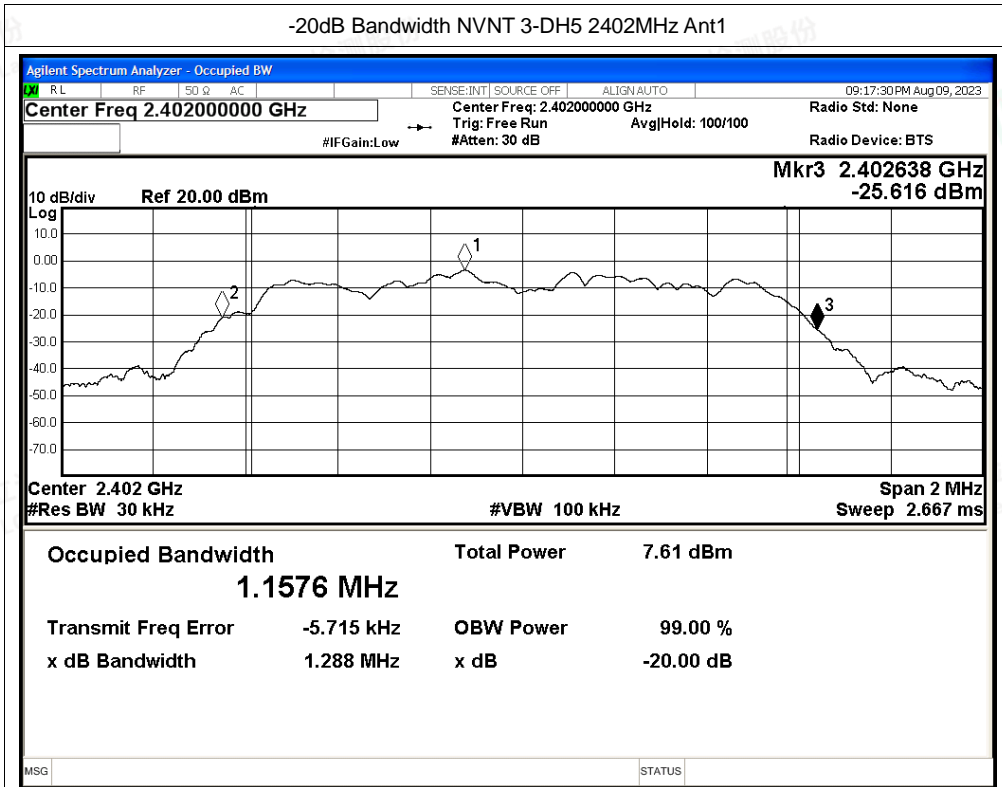


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

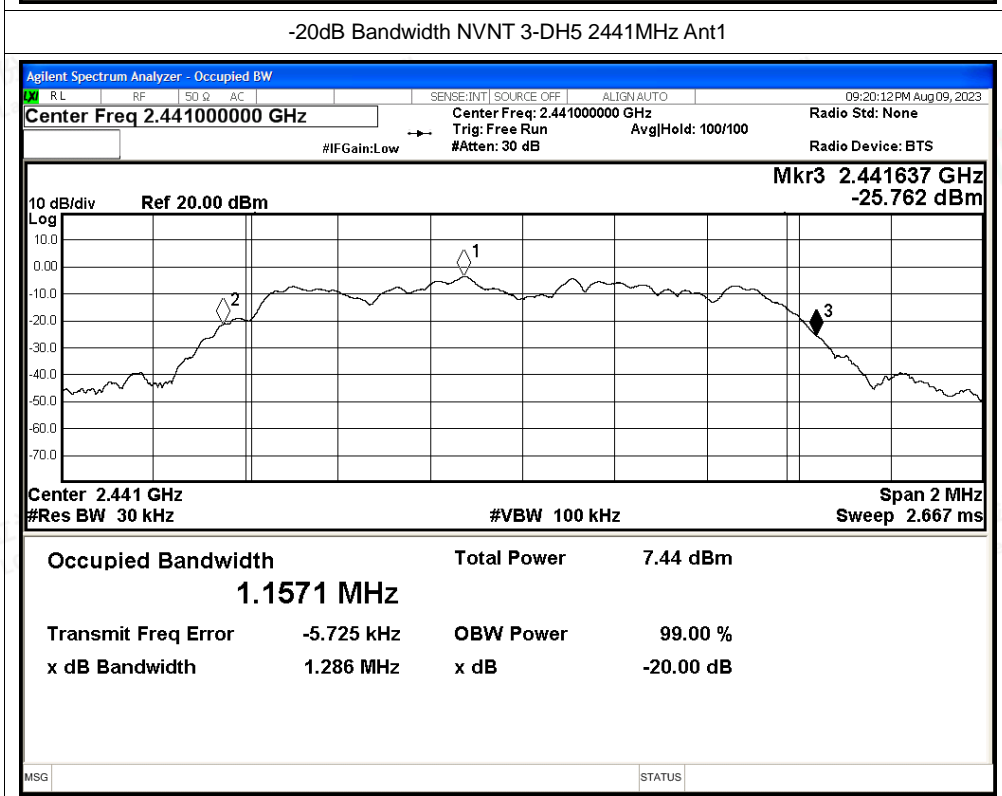


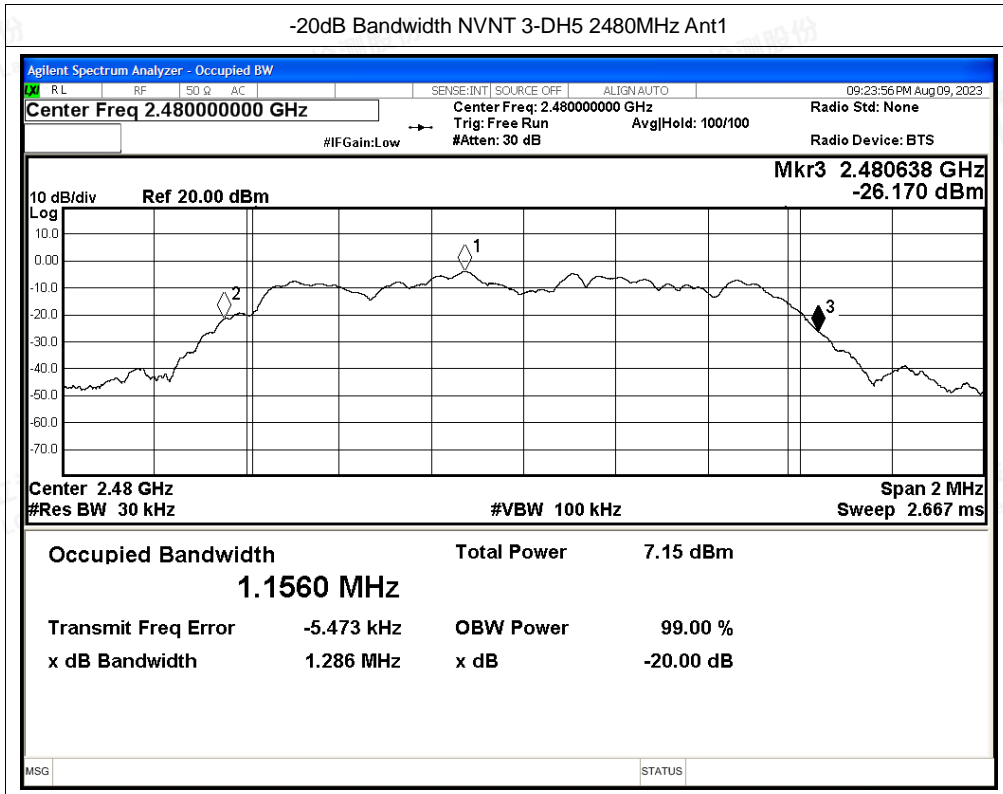


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Conducted Output Power

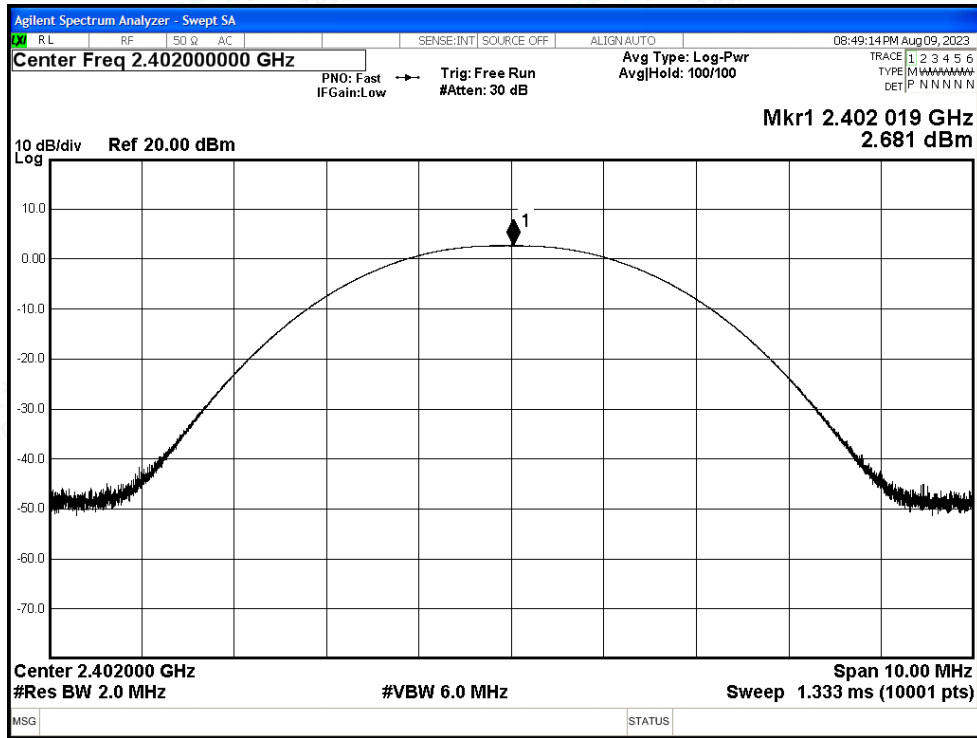
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	2.68	21	Pass
NVNT	1-DH5	2441	Ant1	3.24	21	Pass
NVNT	1-DH5	2480	Ant1	2.78	21	Pass
NVNT	2-DH5	2402	Ant1	3.41	21	Pass
NVNT	2-DH5	2441	Ant1	3.15	21	Pass
NVNT	2-DH5	2480	Ant1	2.91	21	Pass
NVNT	3-DH5	2402	Ant1	5.62	21	Pass
NVNT	3-DH5	2441	Ant1	5.47	21	Pass
NVNT	3-DH5	2480	Ant1	5.17	21	Pass



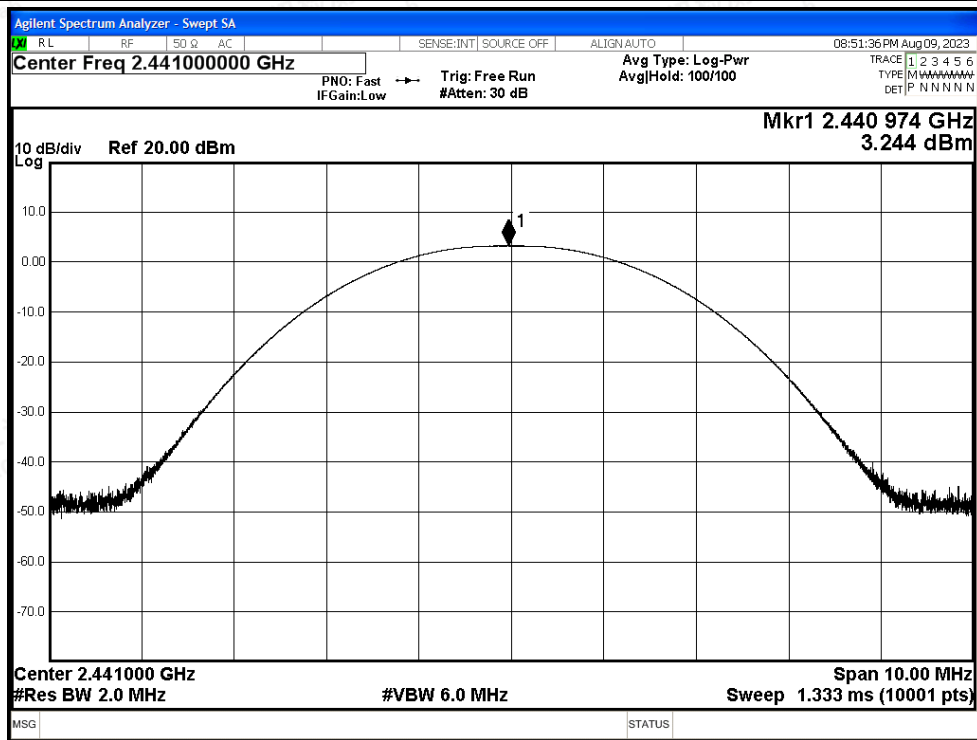


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

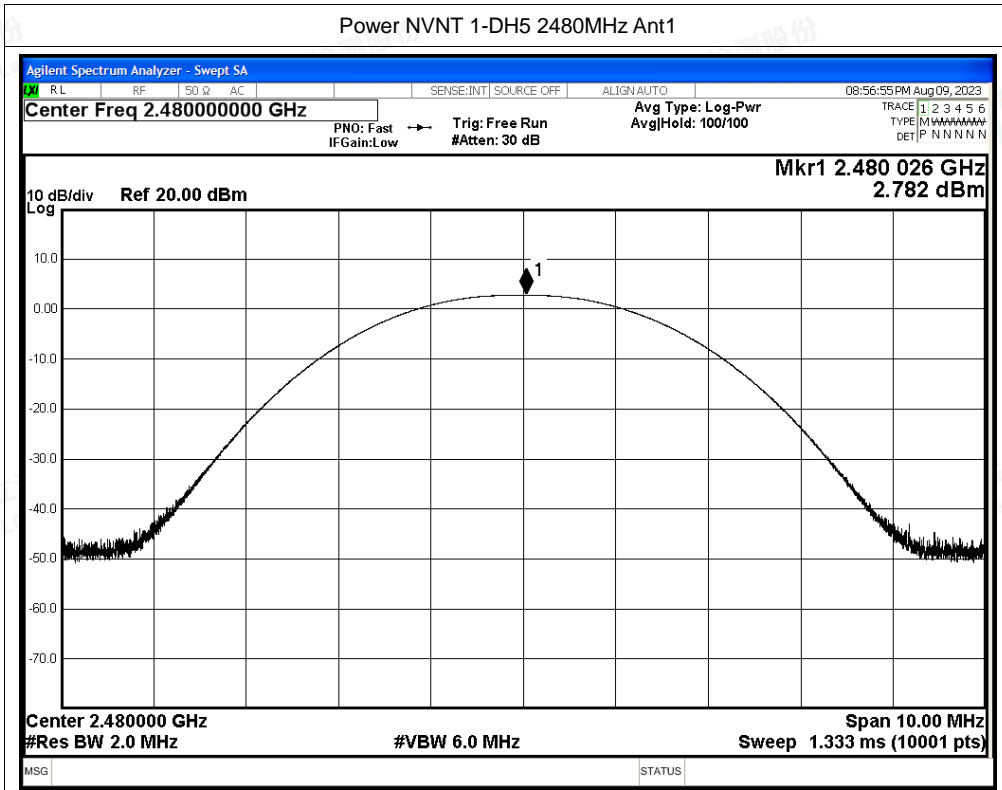


Power NVNT 1-DH5 2441MHz Ant1

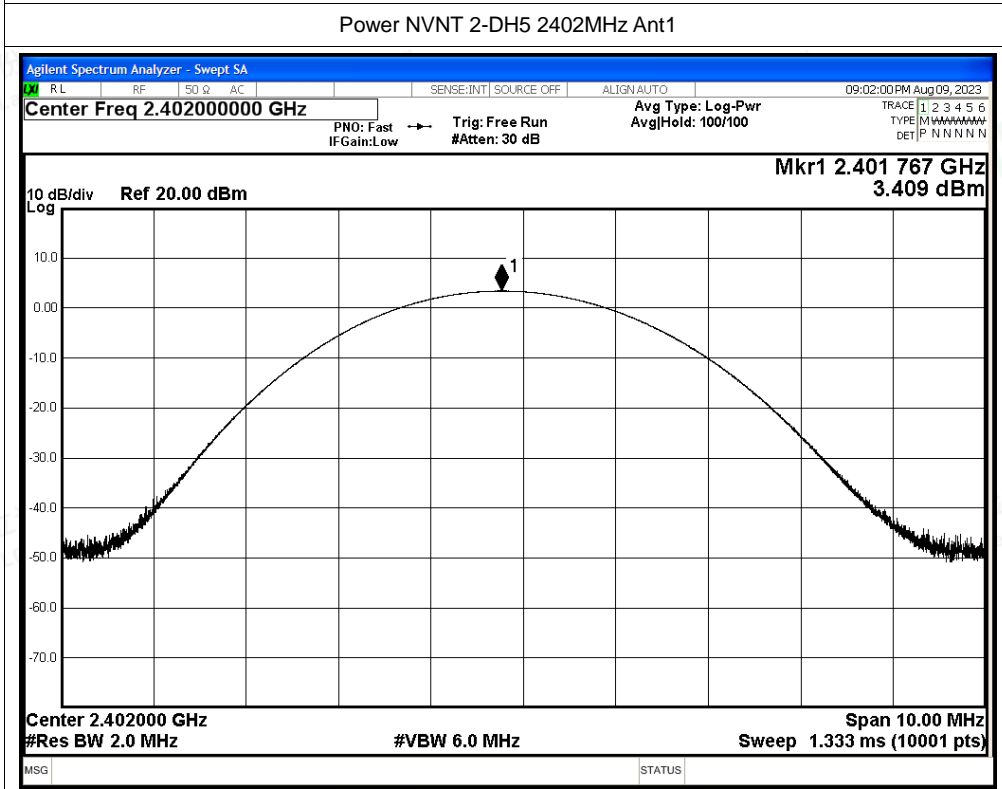




Power NVNT 1-DH5 2480MHz Ant1

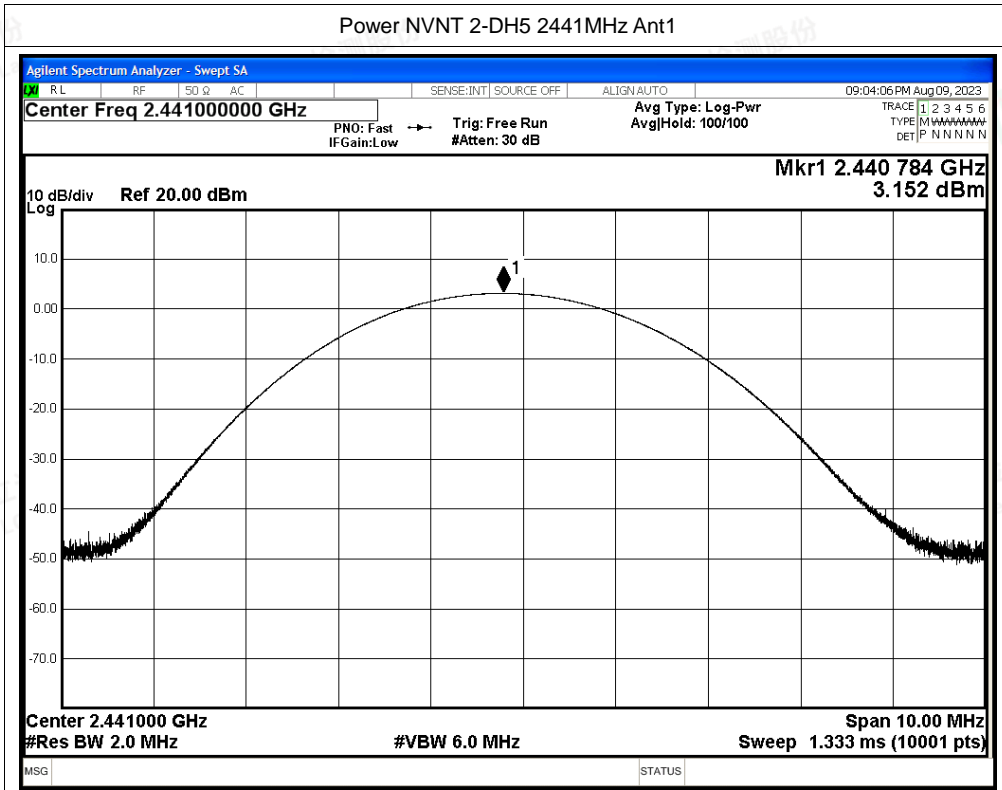


Power NVNT 2-DH5 2402MHz Ant1

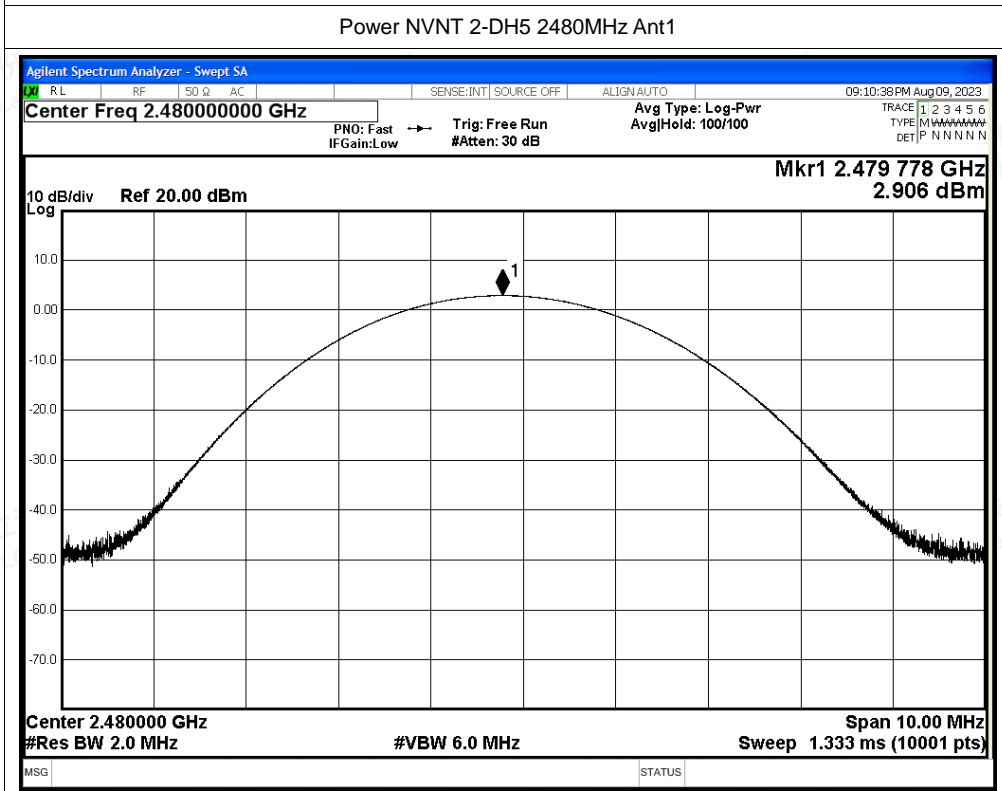




Power NVNT 2-DH5 2441MHz Ant1

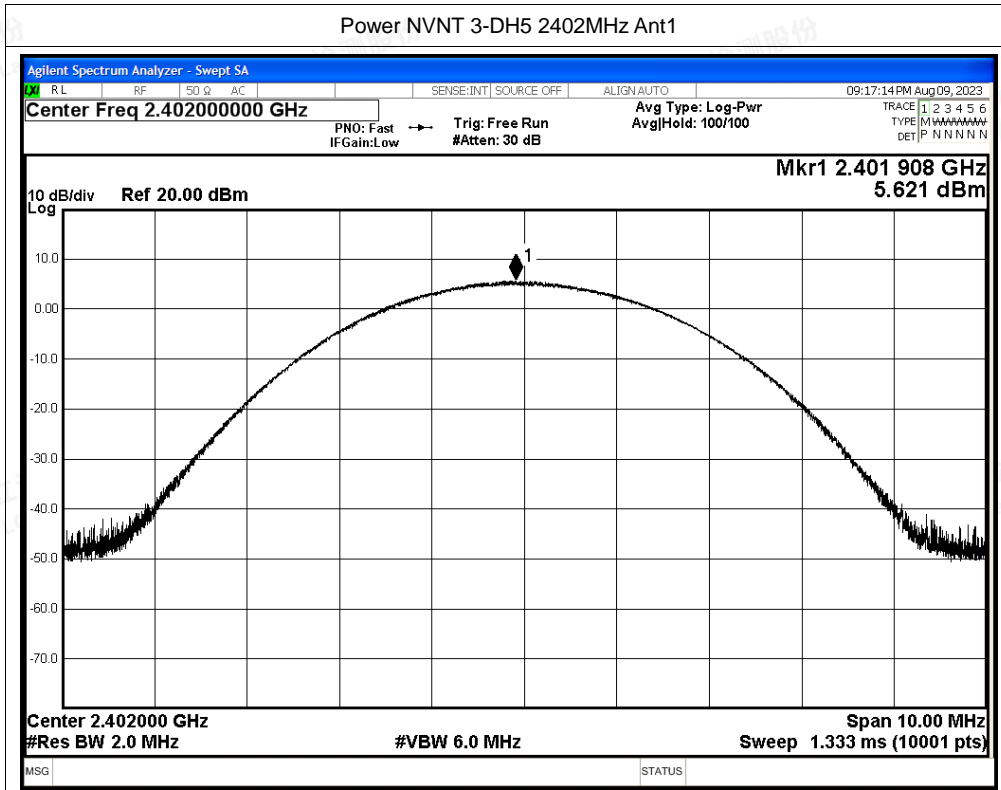


Power NVNT 2-DH5 2480MHz Ant1

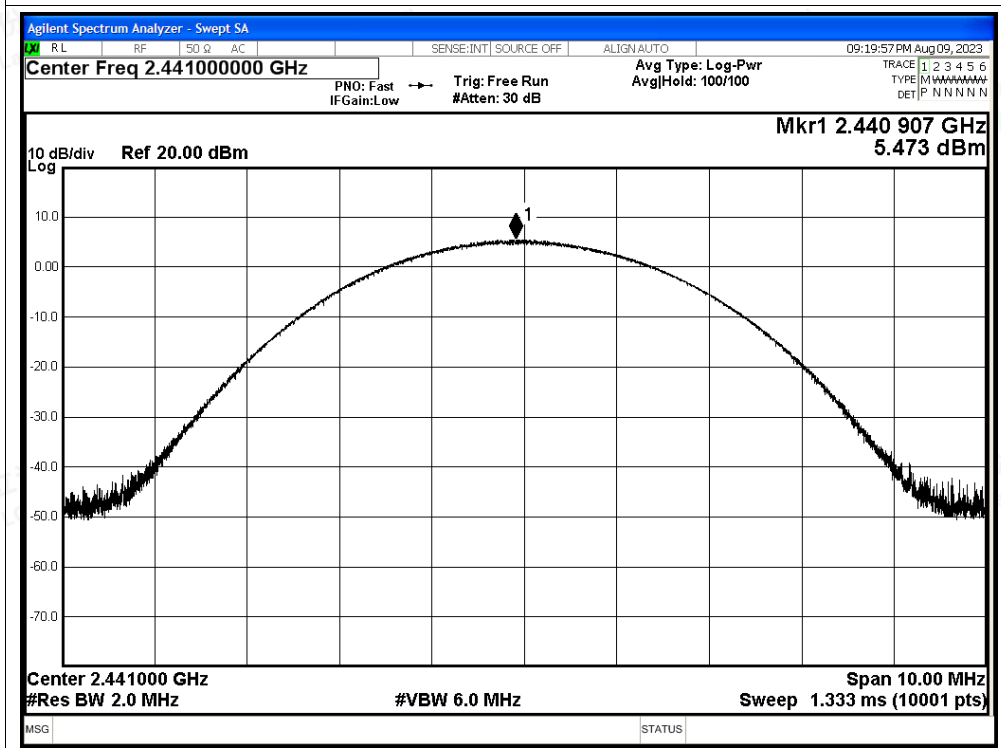


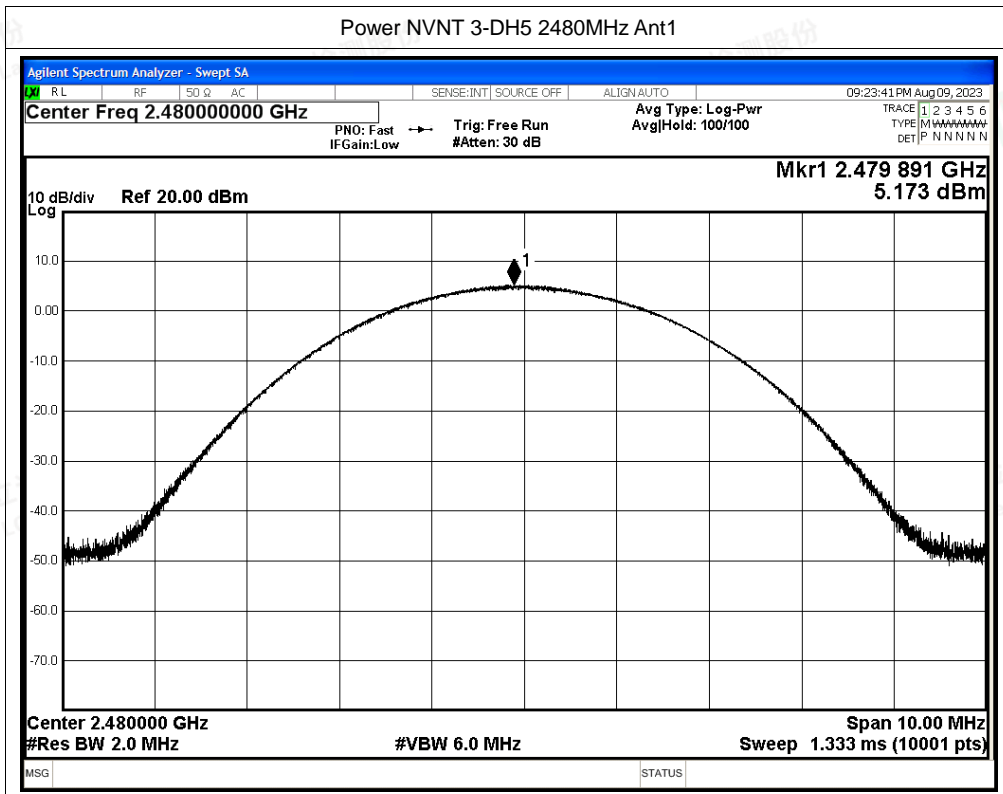


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

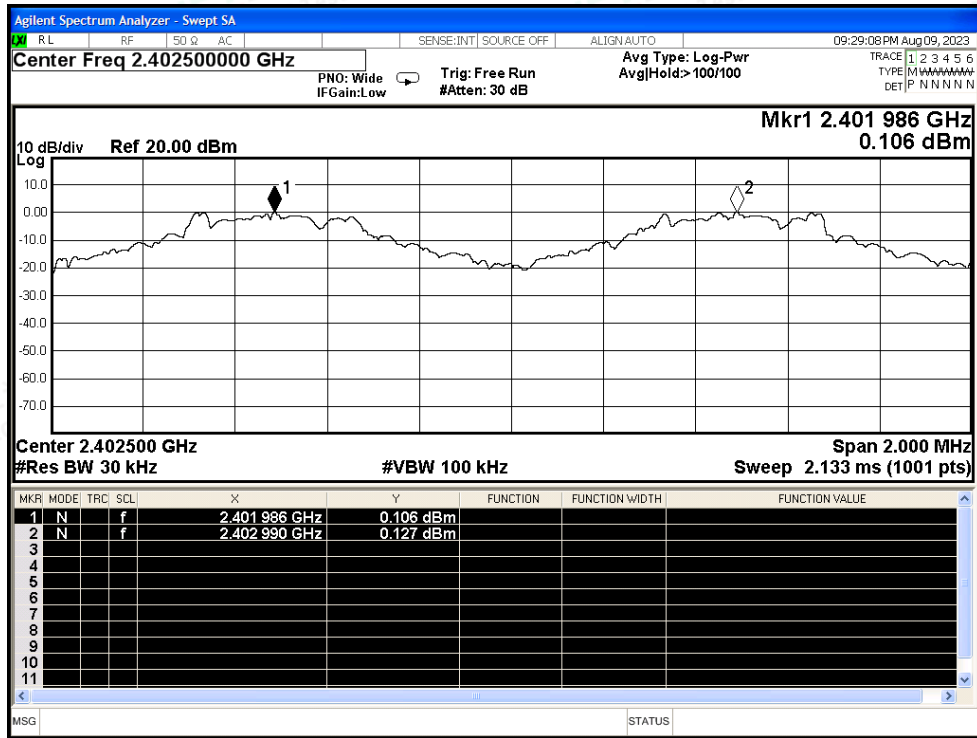
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.986	2402.99	1.004	0.687	Pass
NVNT	2-DH5	Ant1	2401.936	2402.75	0.814	0.712	Pass
NVNT	3-DH5	Ant1	2401.964	2402.964	1	0.859	Pass



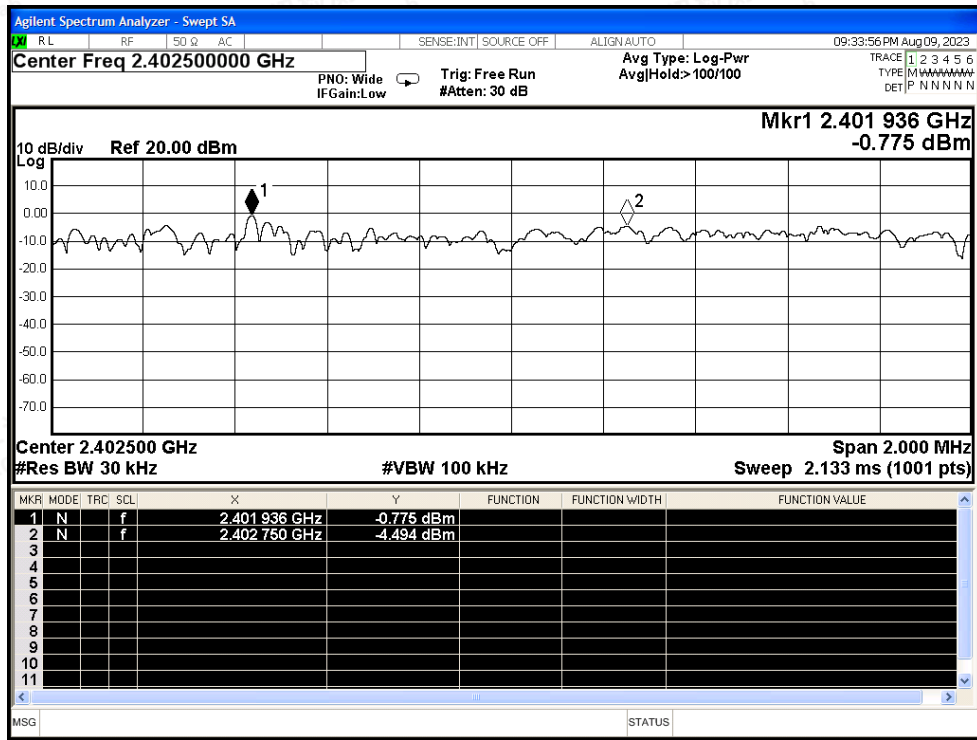


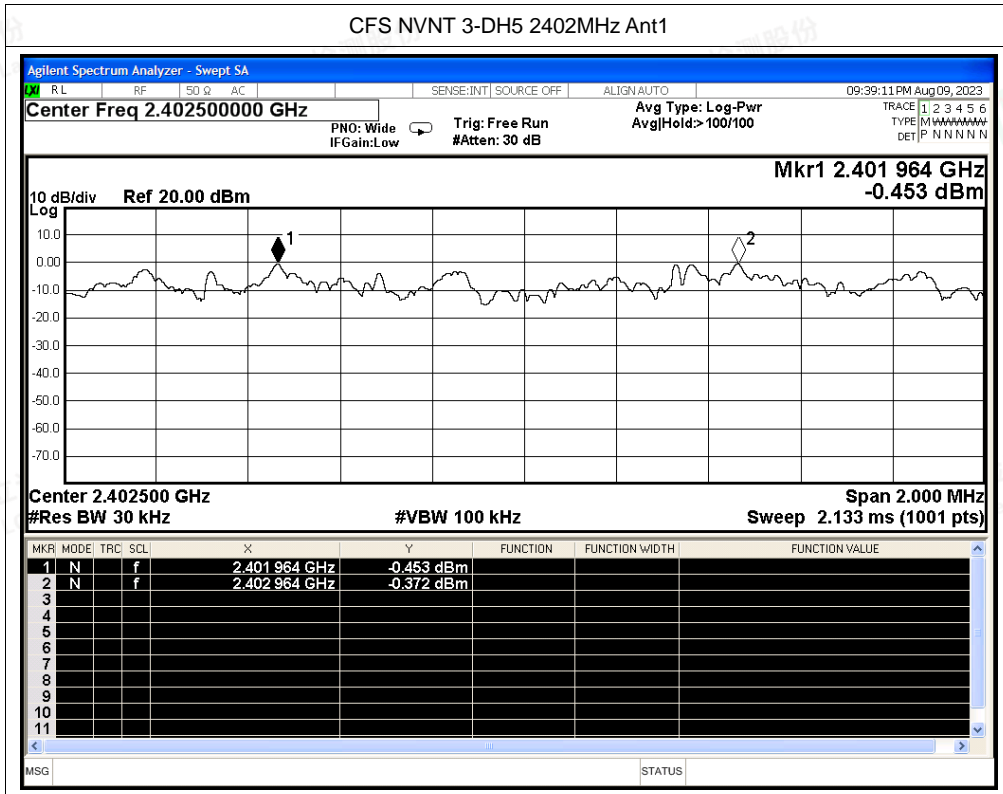
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

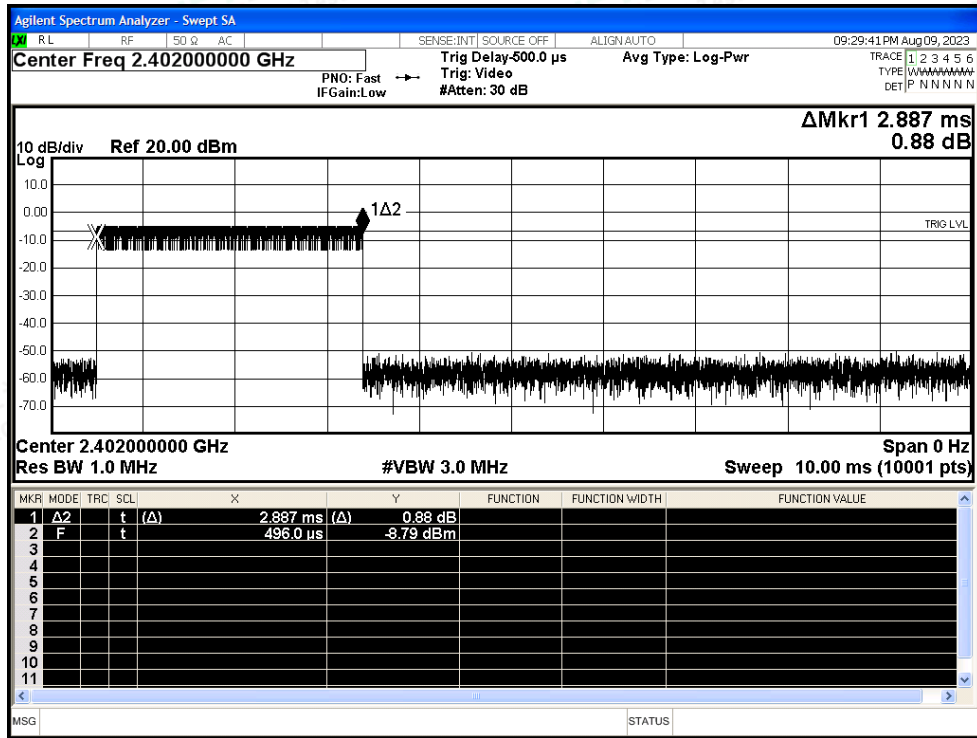
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.887	311.796	108	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.891	306.446	106	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.894	286.506	99	31600	400	Pass



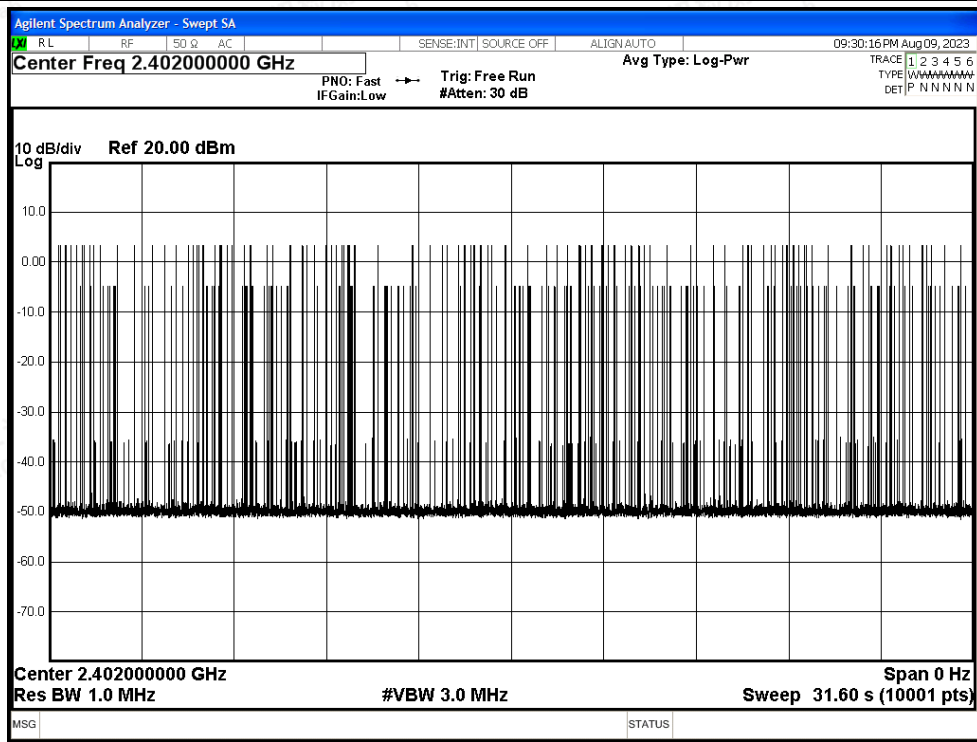


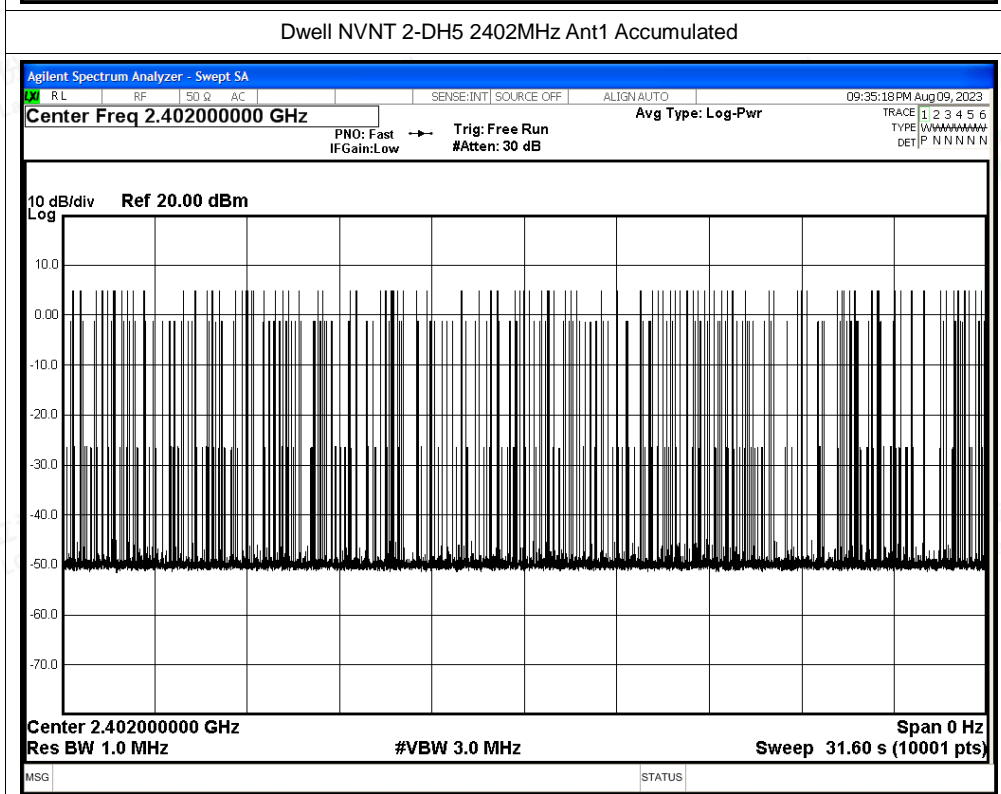
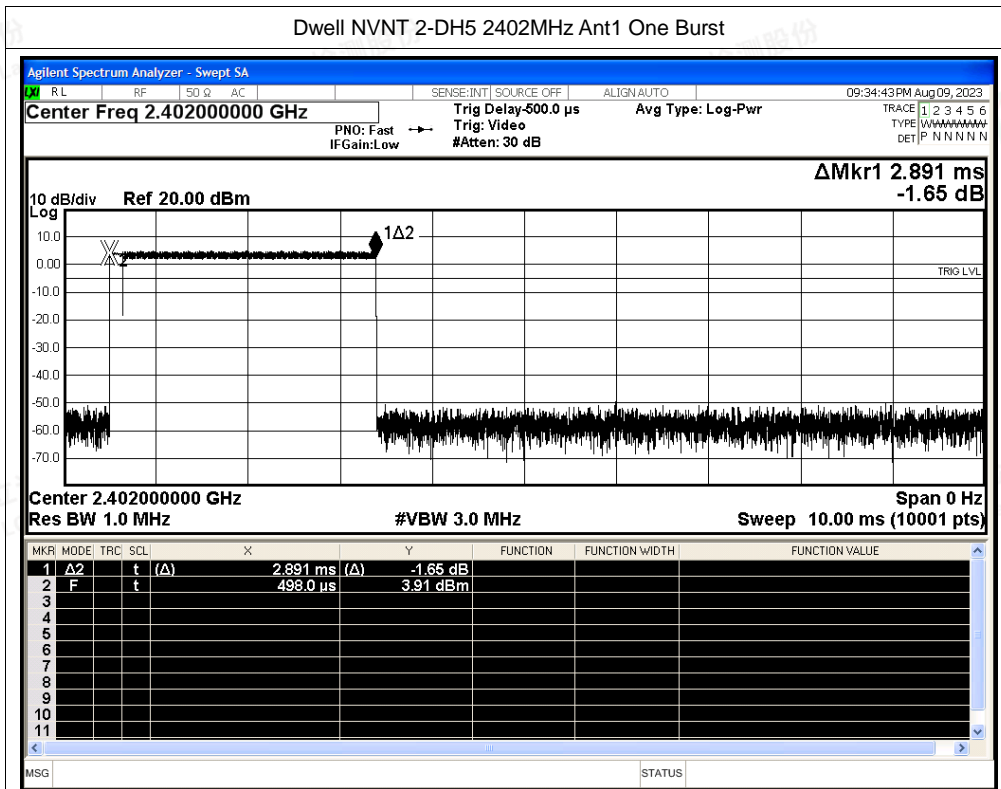
Test Graphs

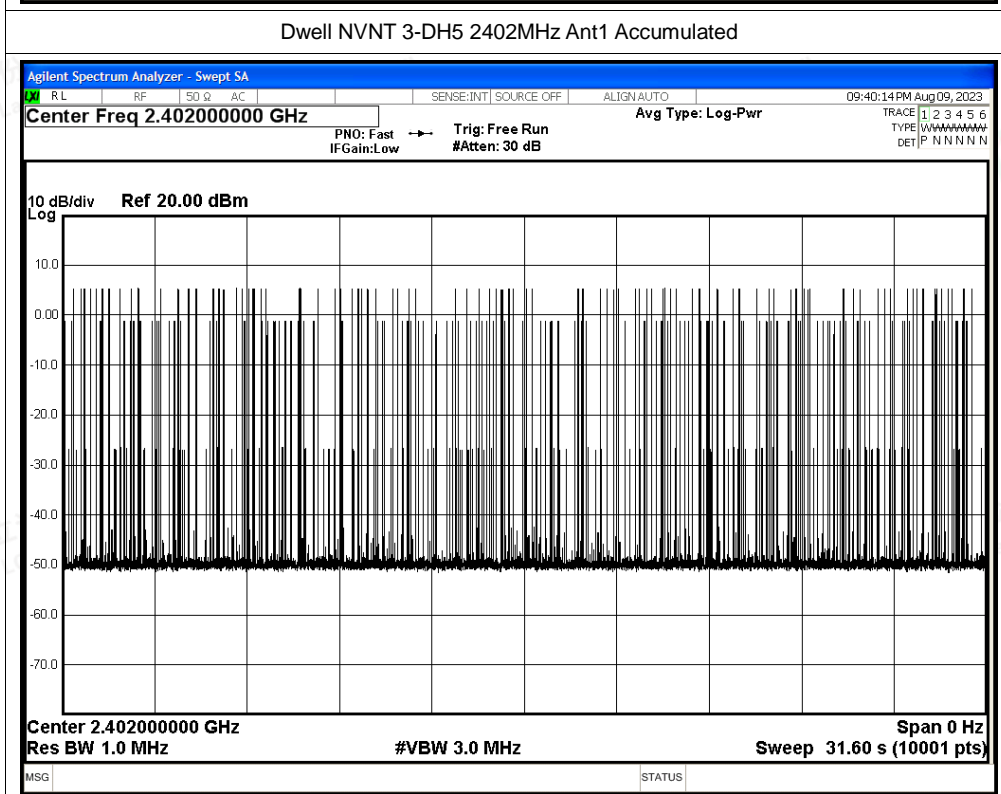
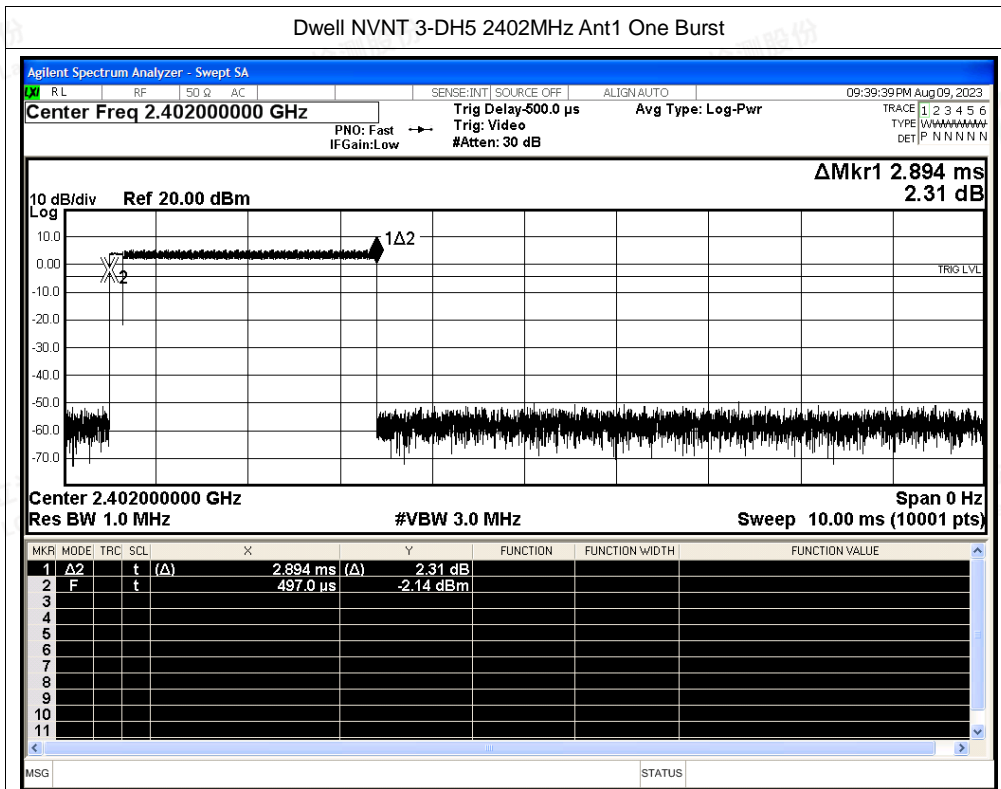
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated









A.5 Number of Hopping Channel

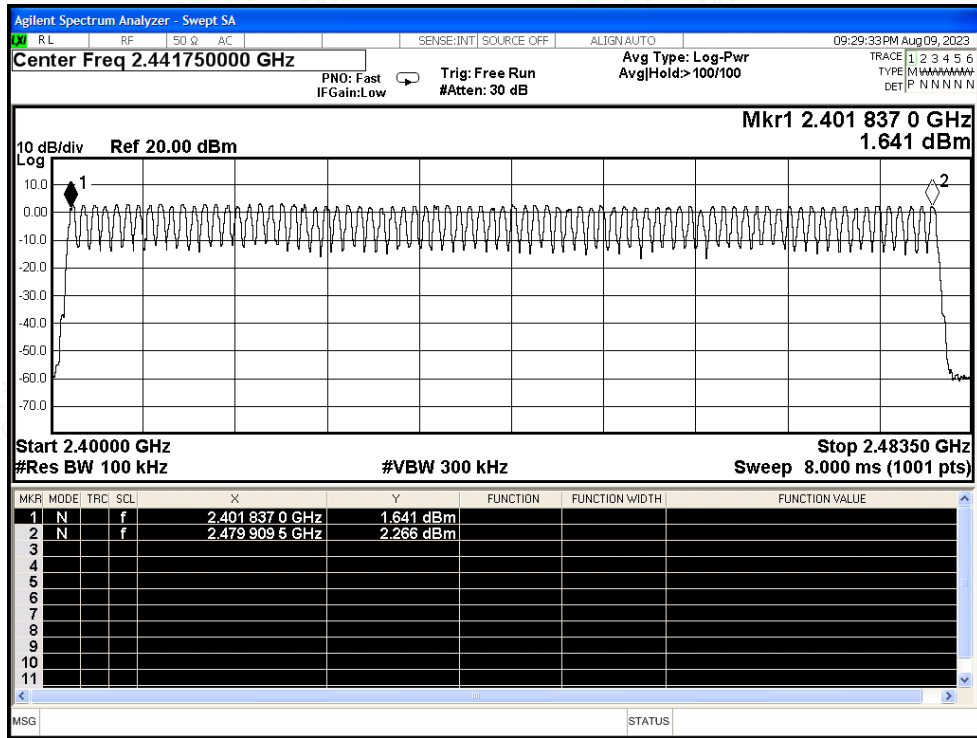
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



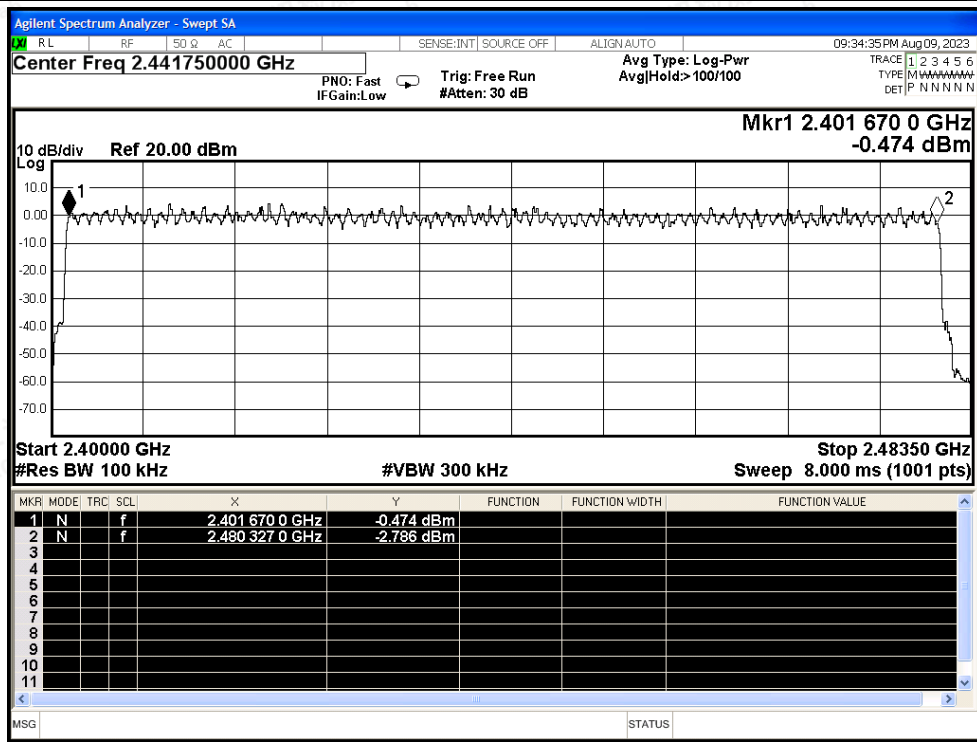


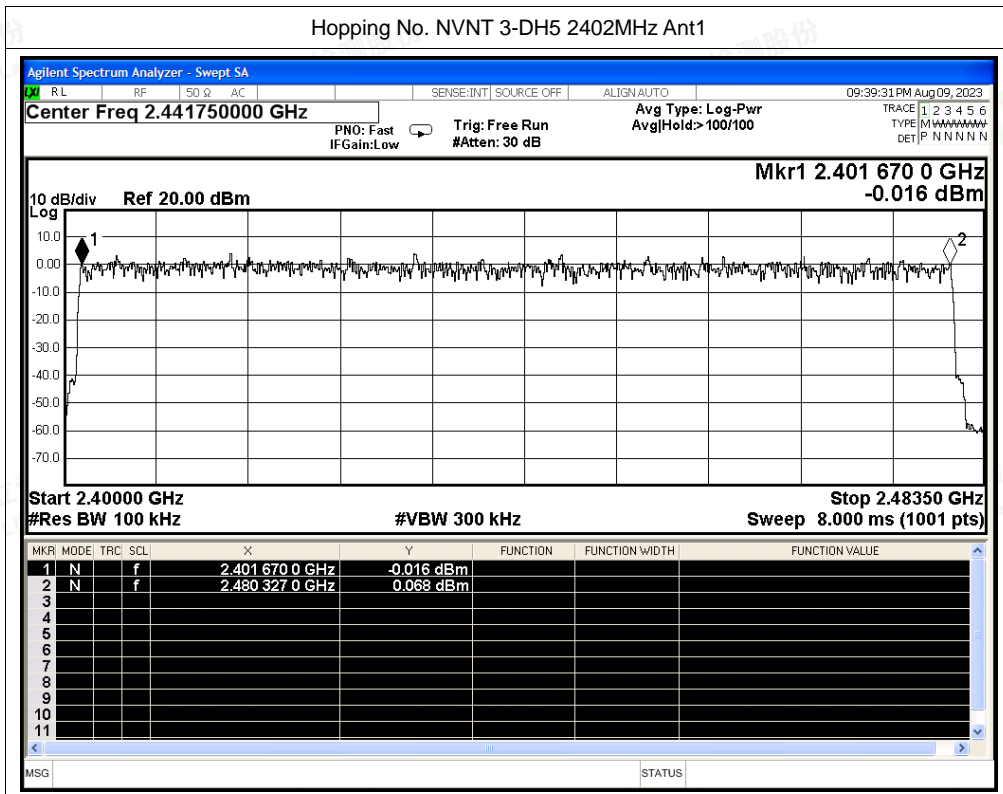
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

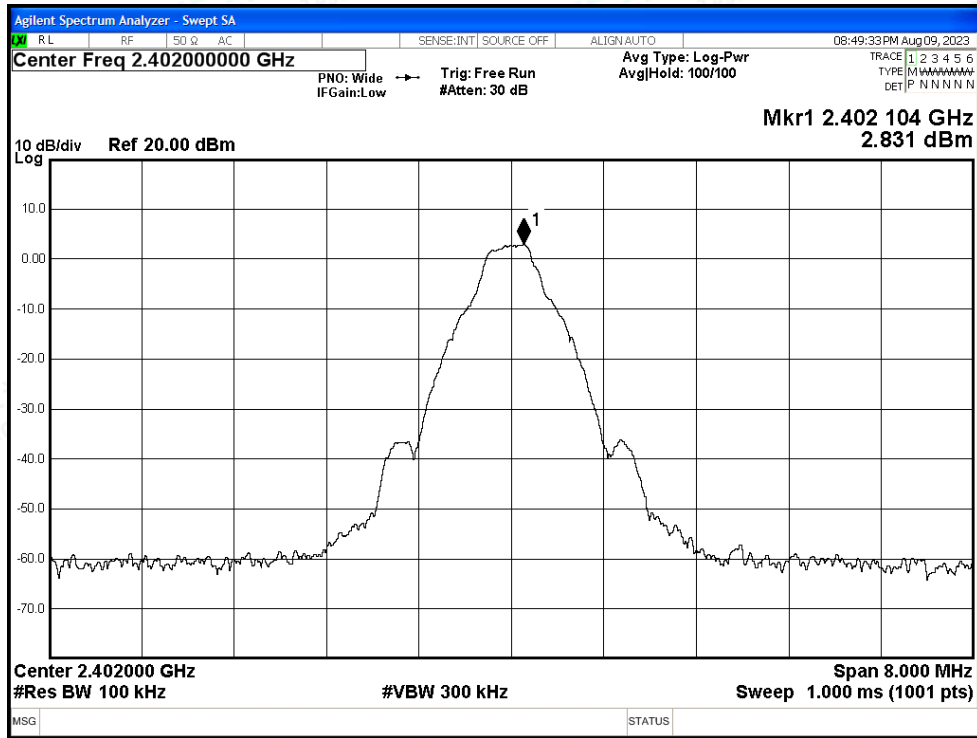
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-60.04	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.23	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-59.11	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-59.1	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.19	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-58.04	-20	Pass



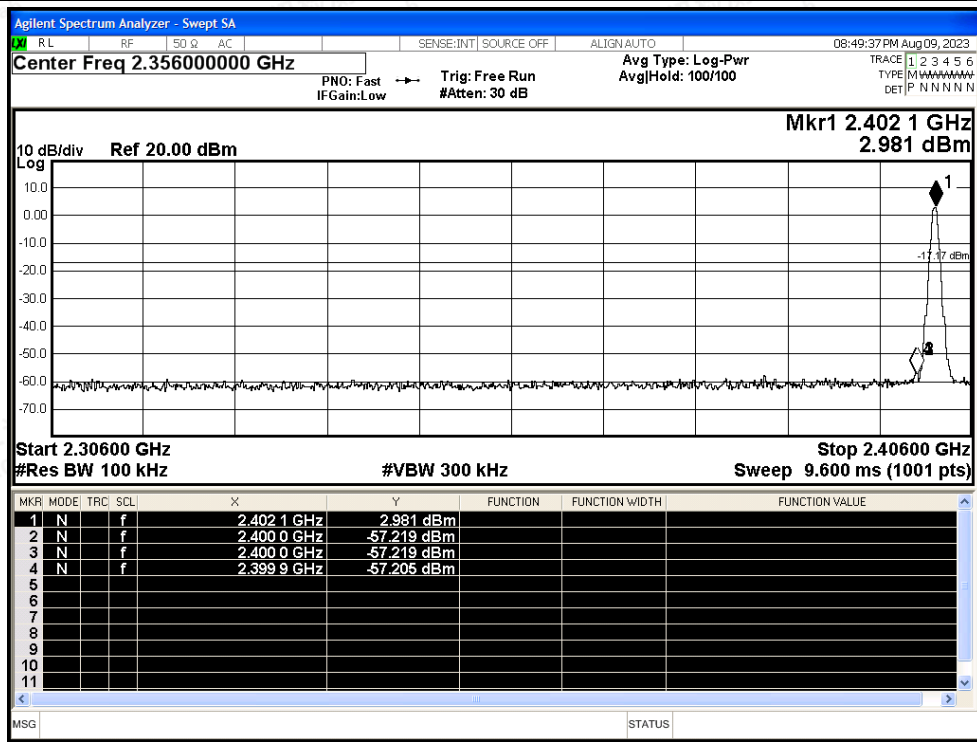


Test Graphs

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

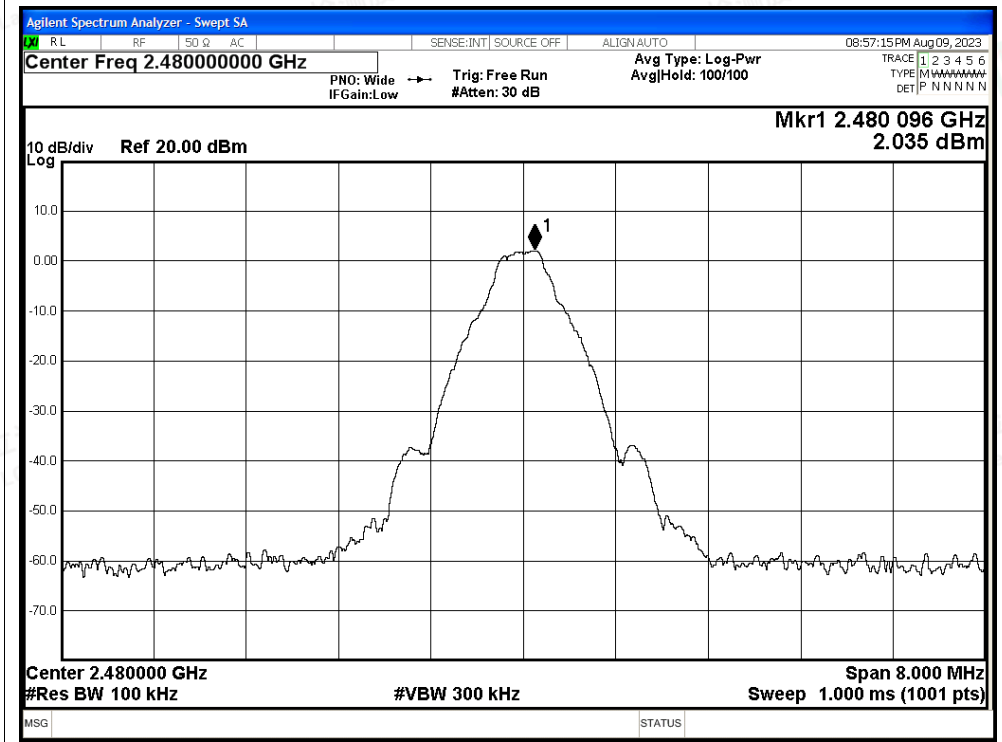


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

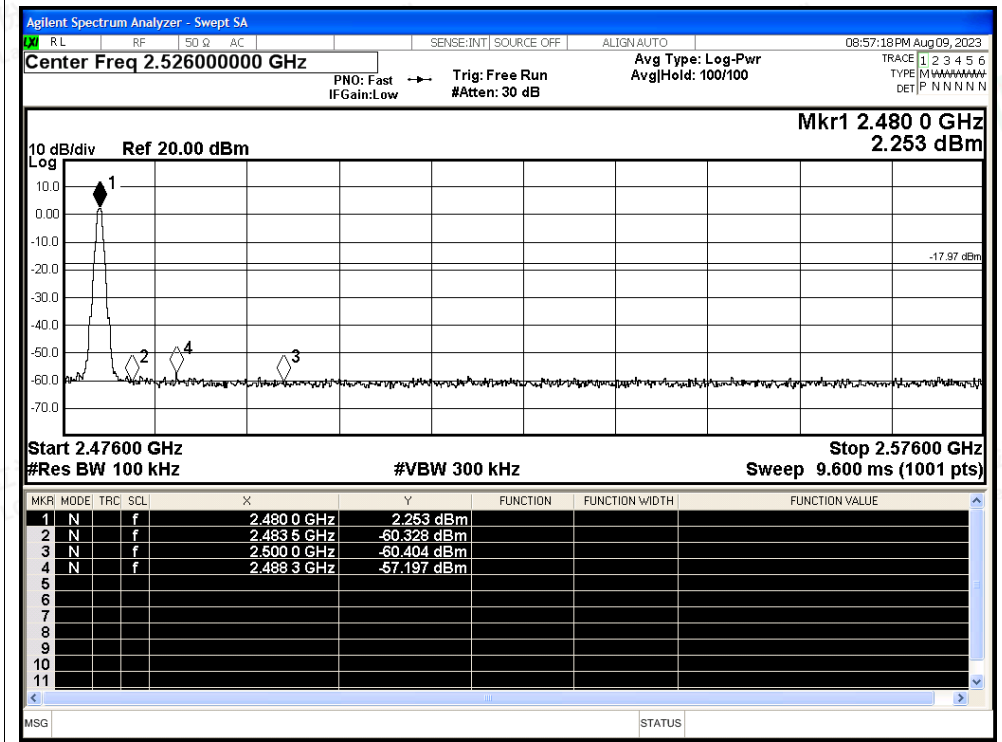




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

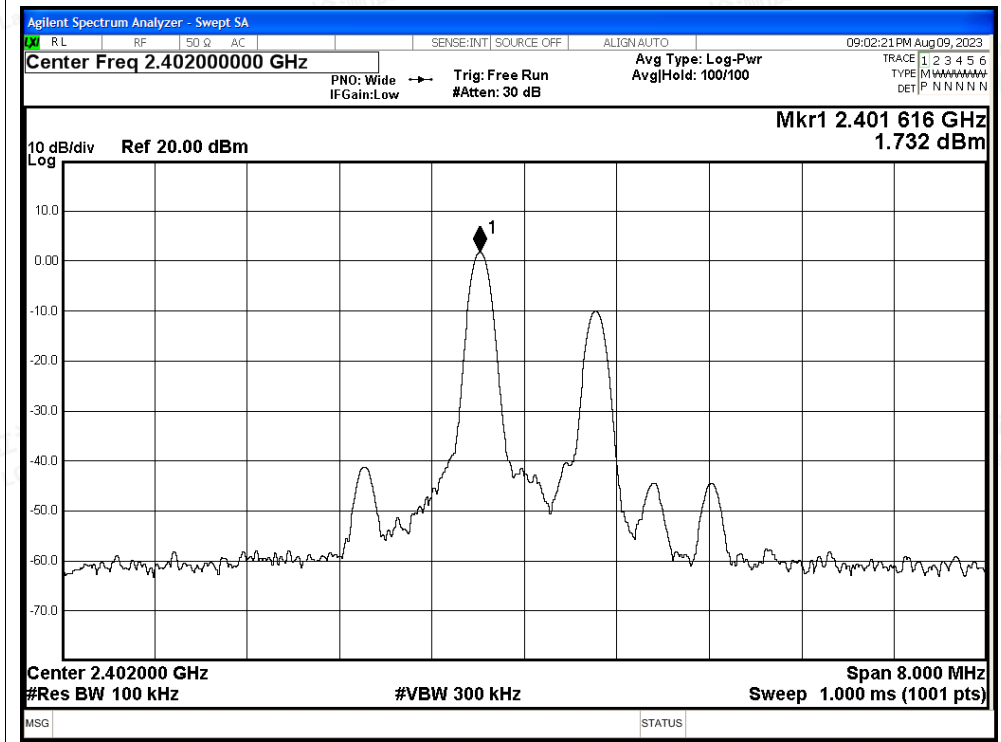


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

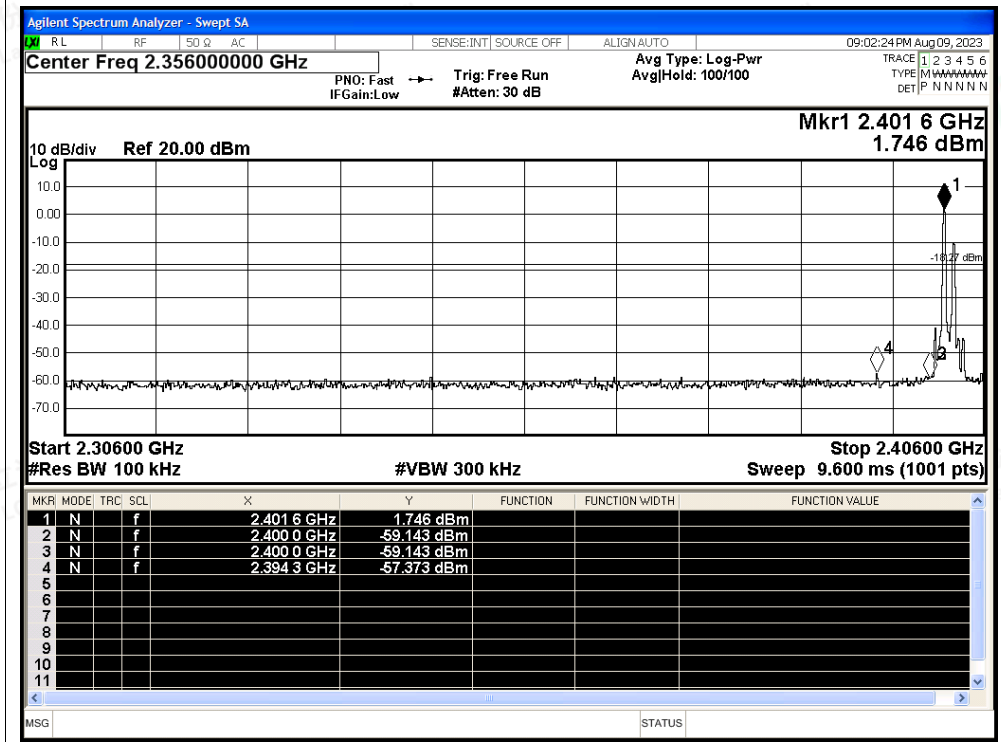




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

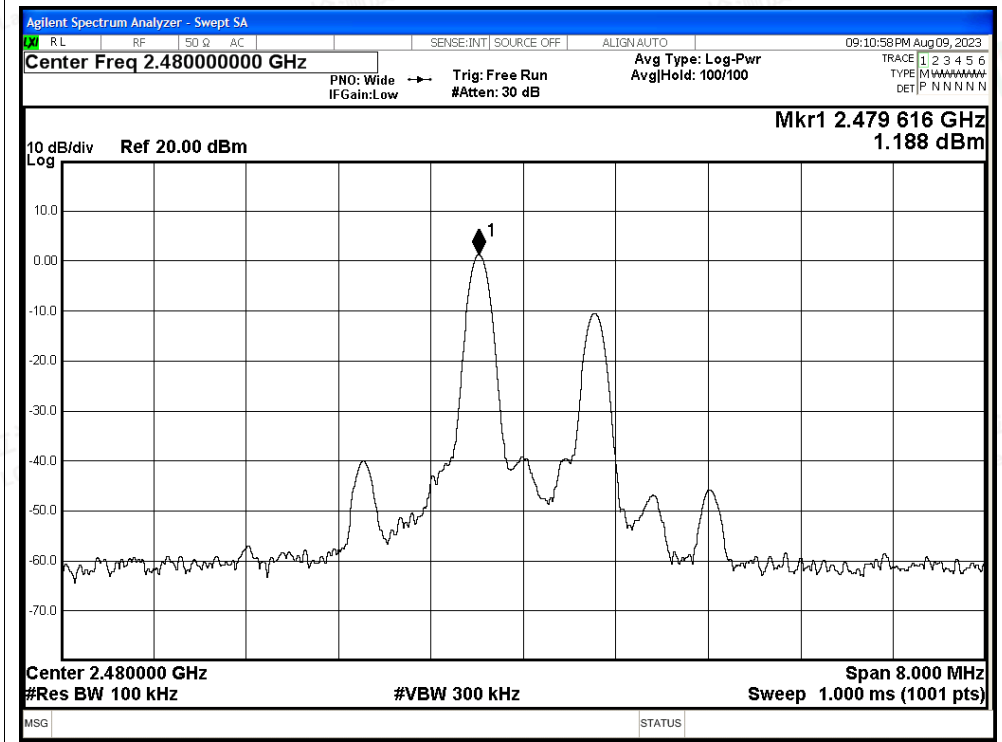


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

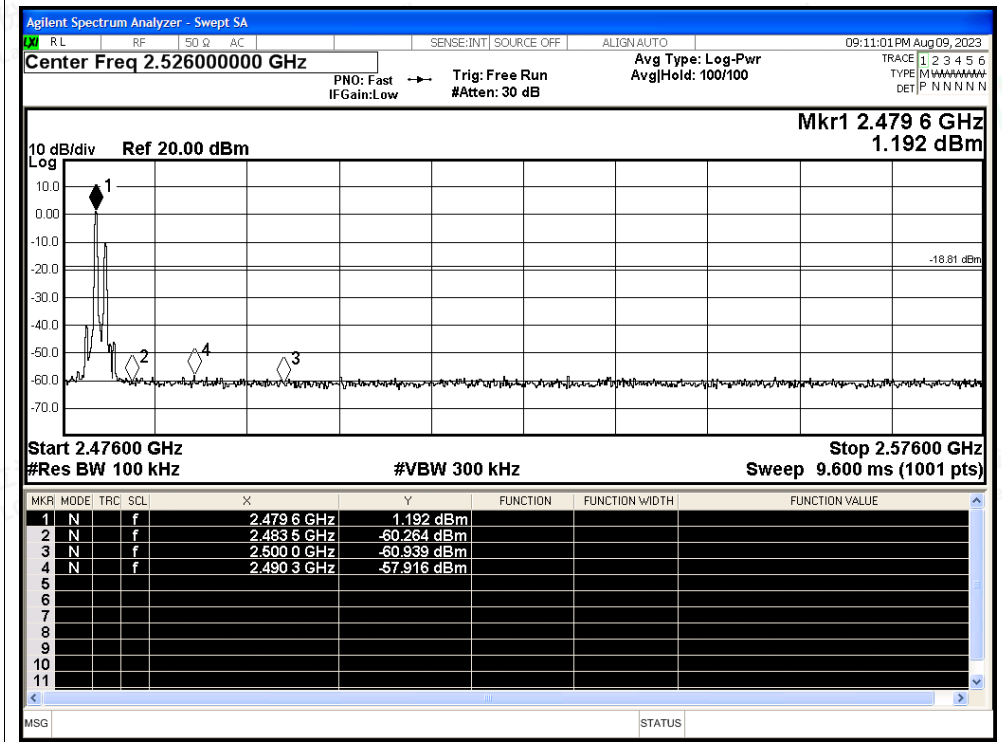


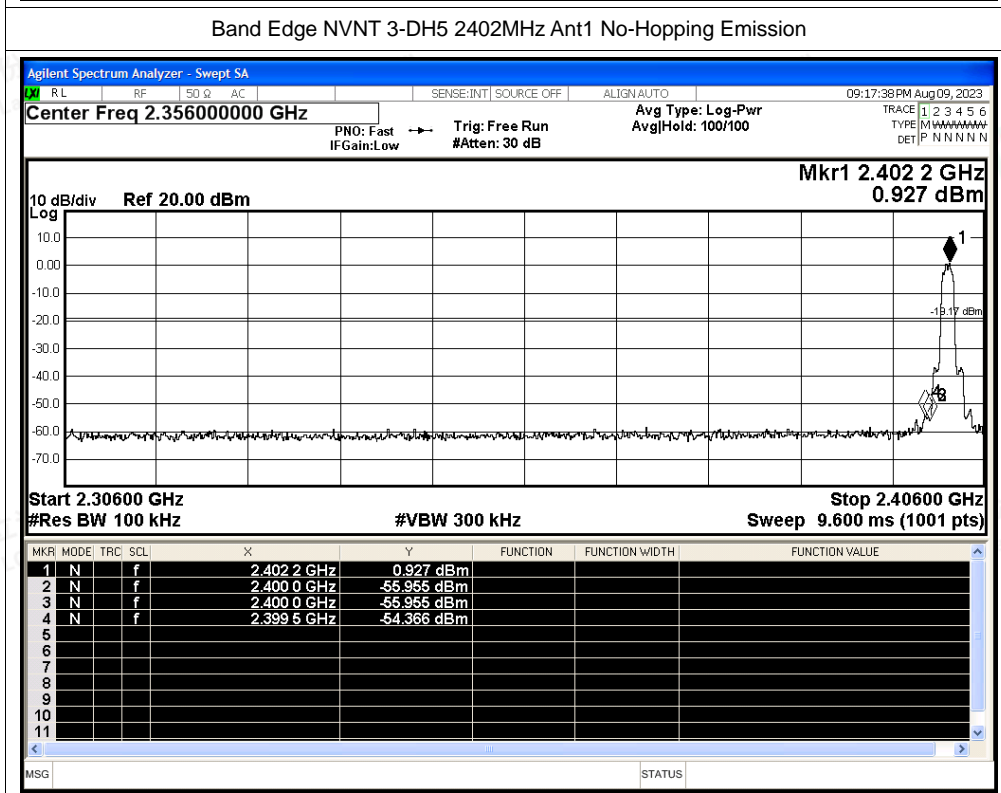
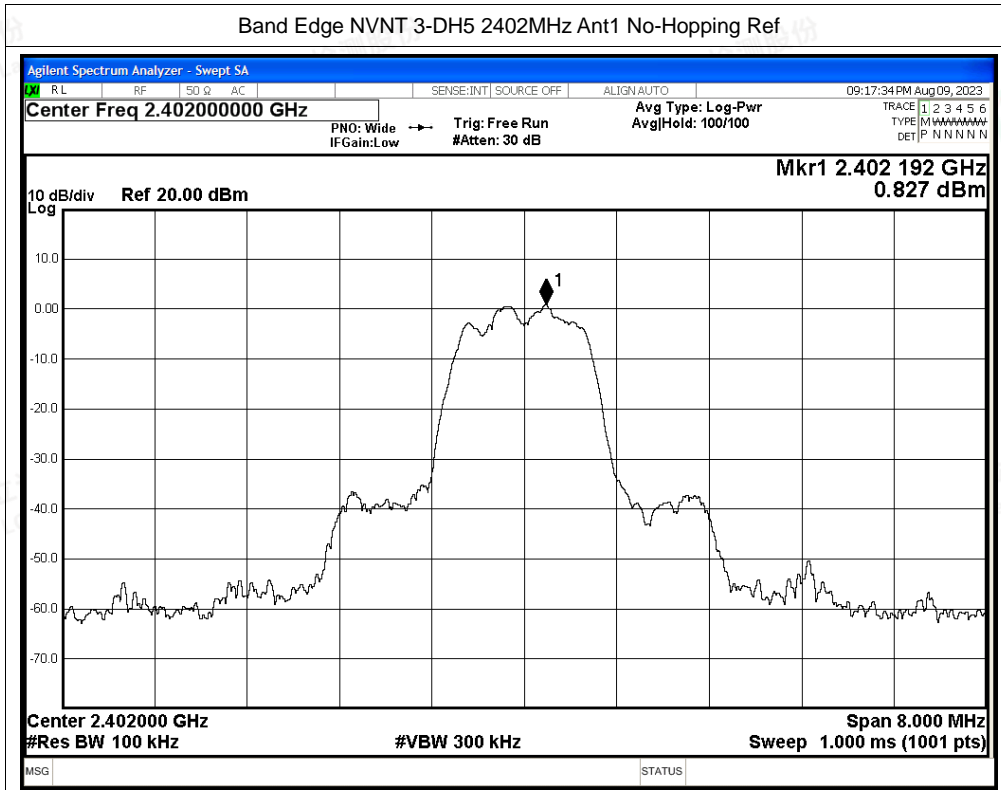


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



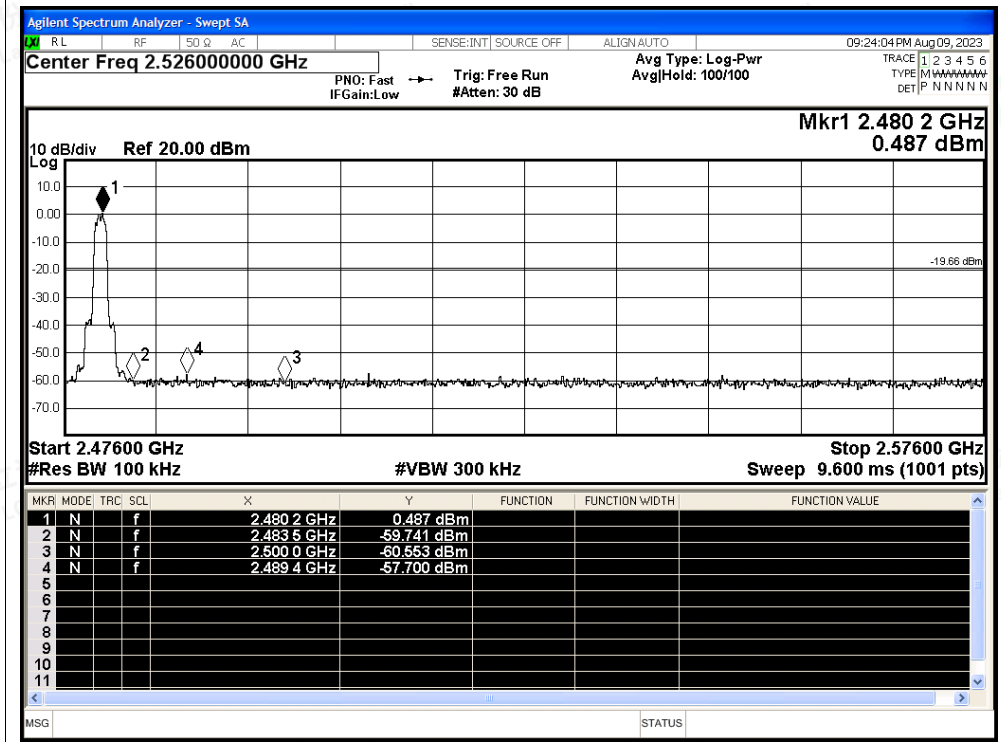




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission





(Hopping)

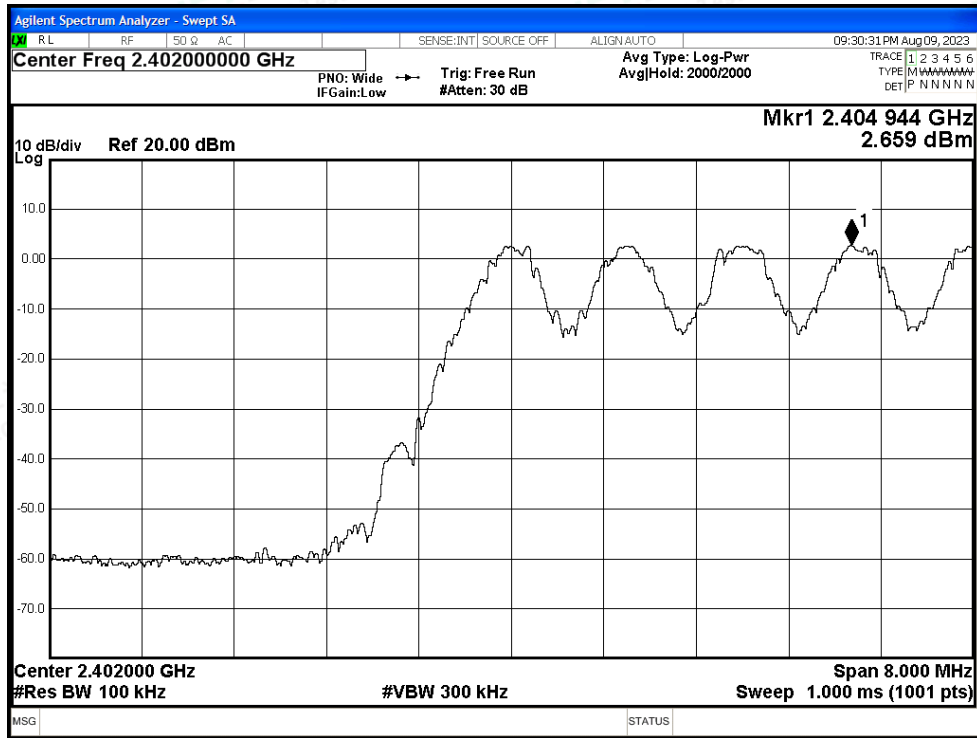
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-60	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-60.17	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-60.26	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-59.47	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-61.94	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-61.3	-20	Pass



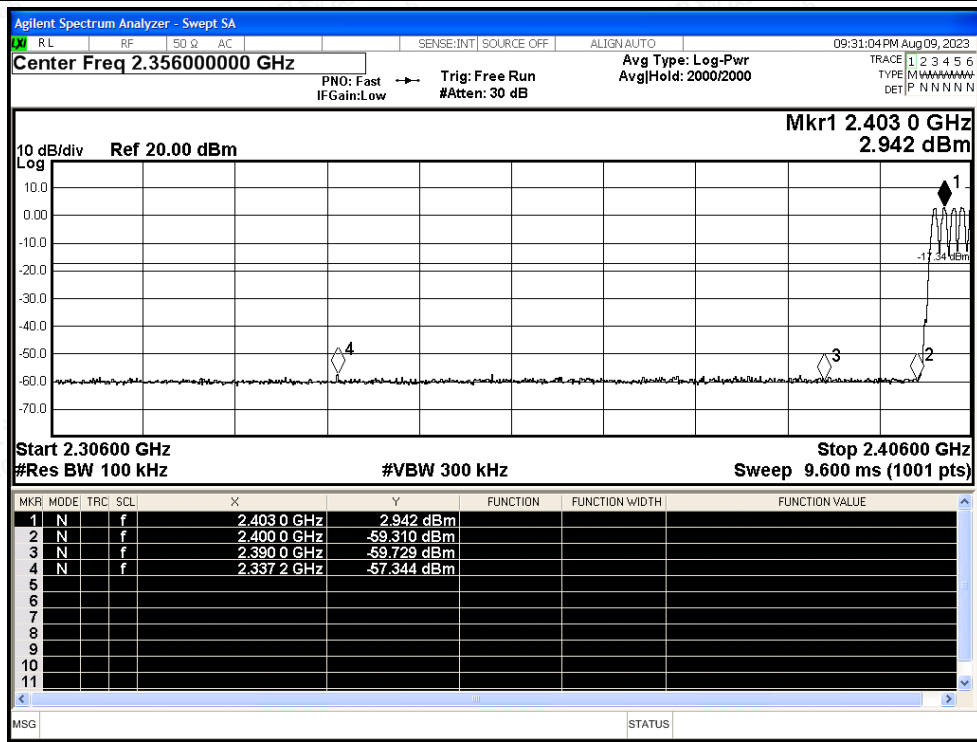


Test Graphs

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

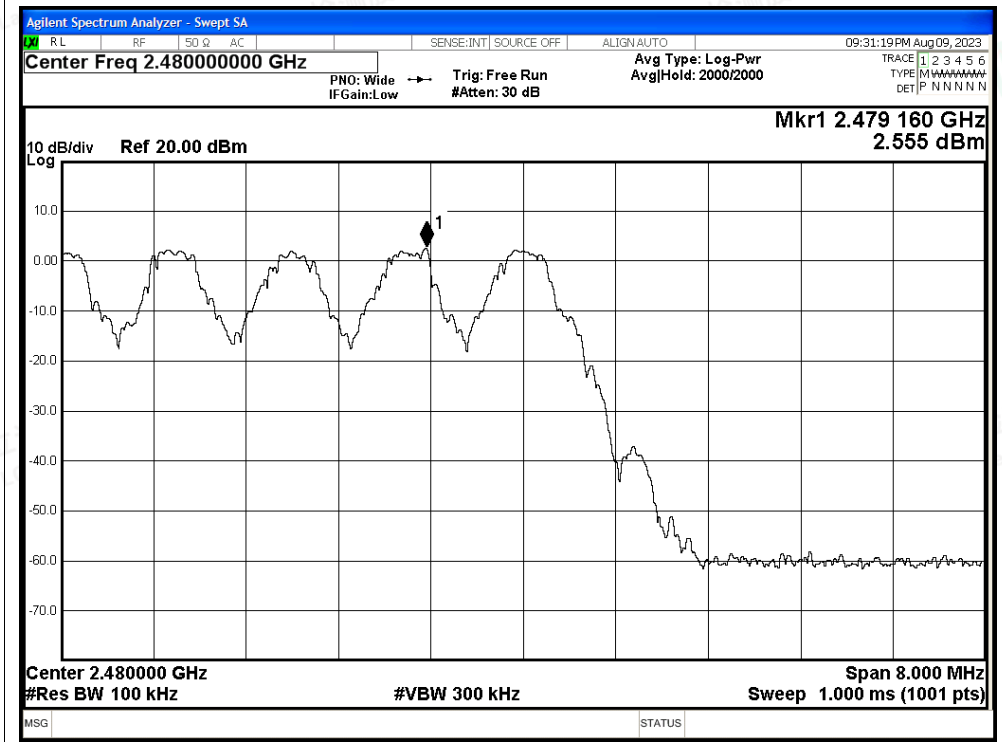


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

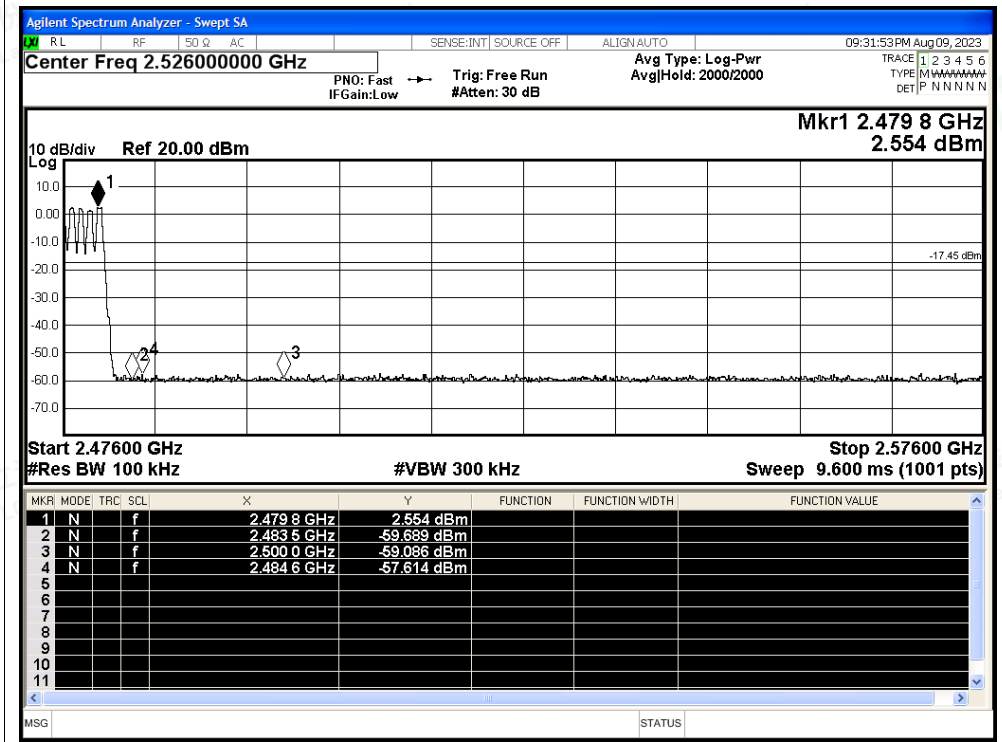


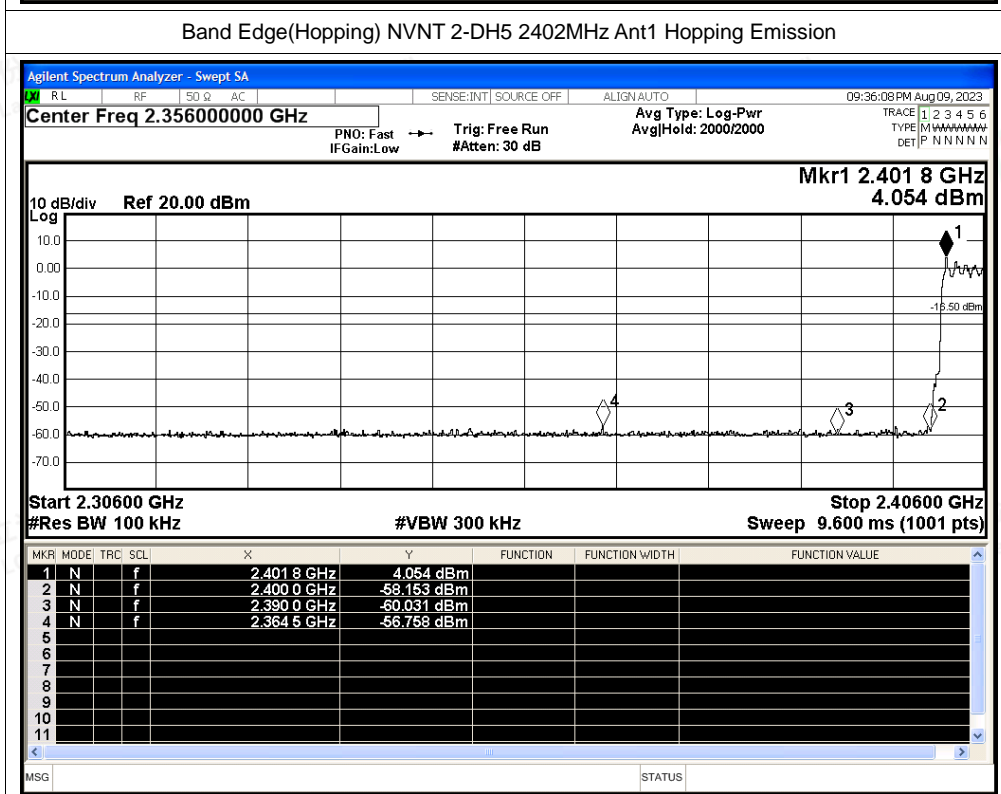
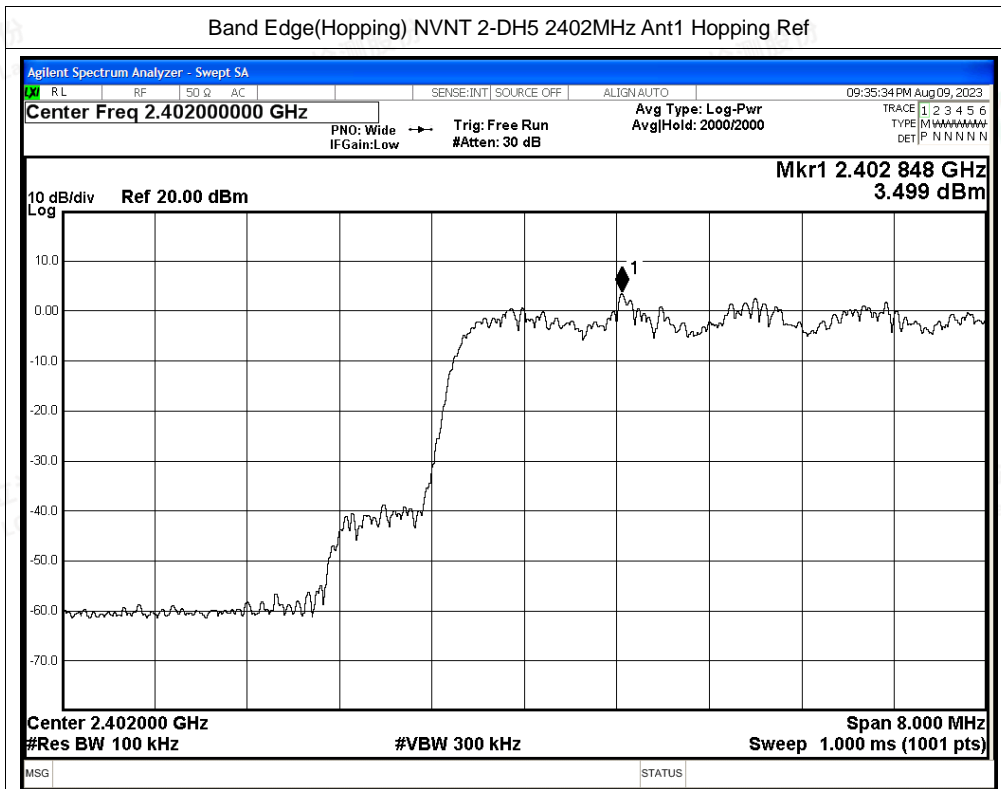


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



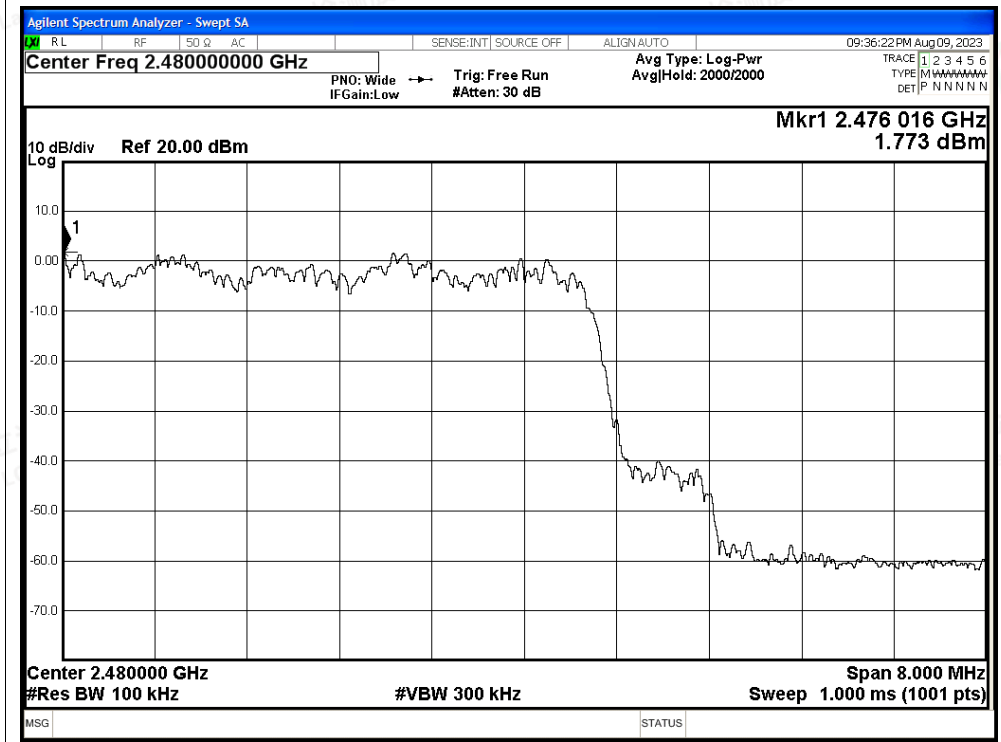
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



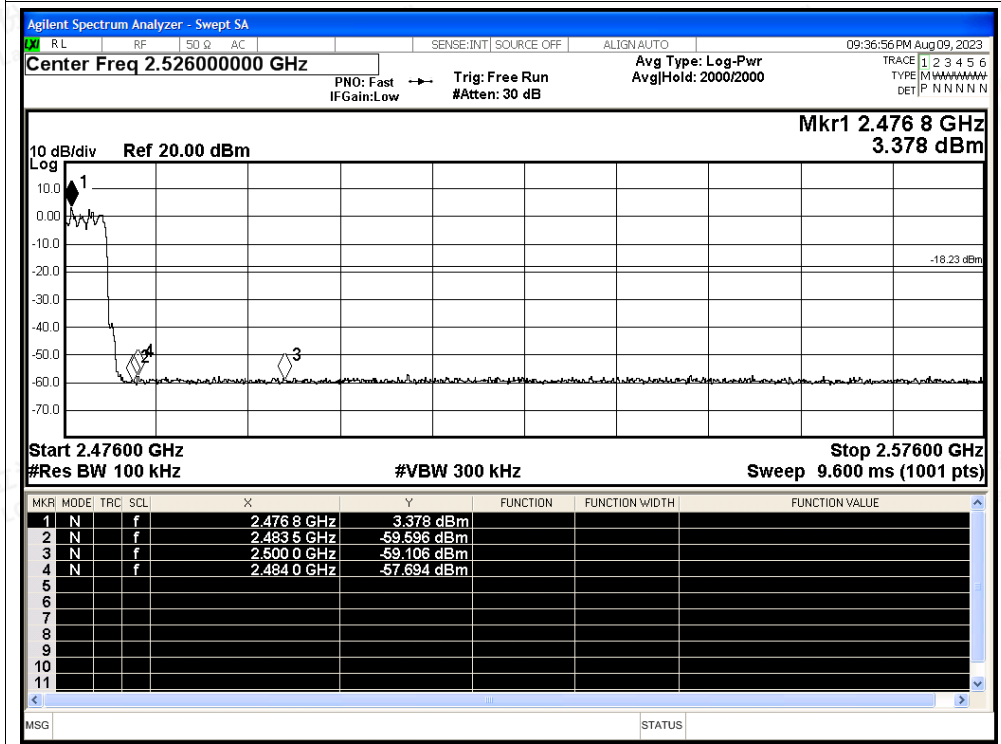




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

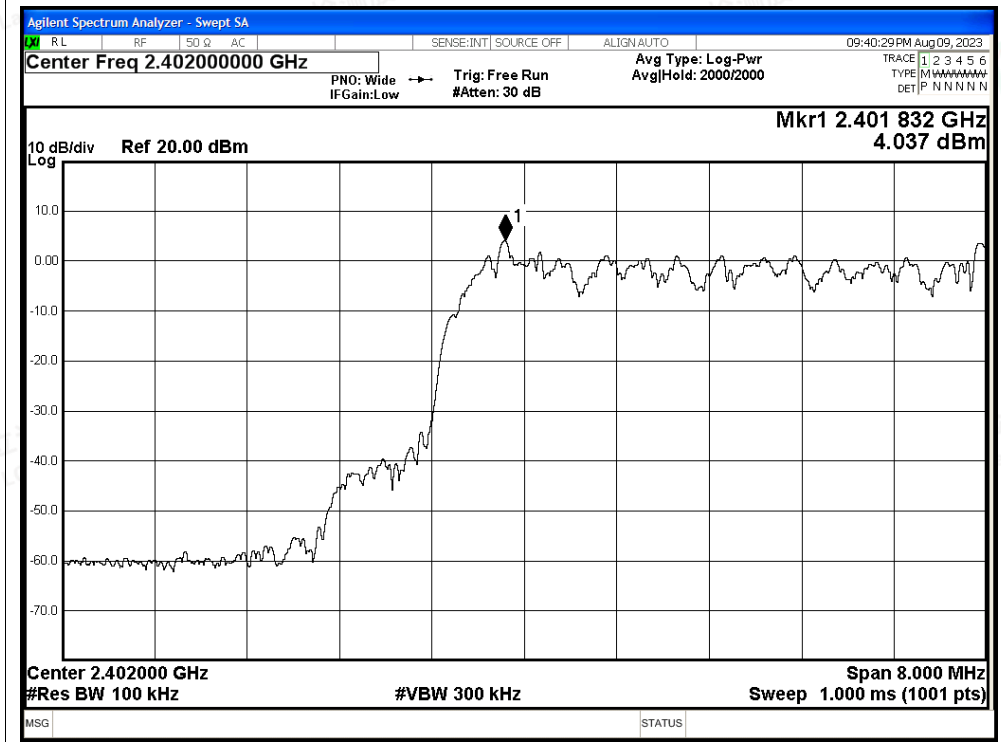


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

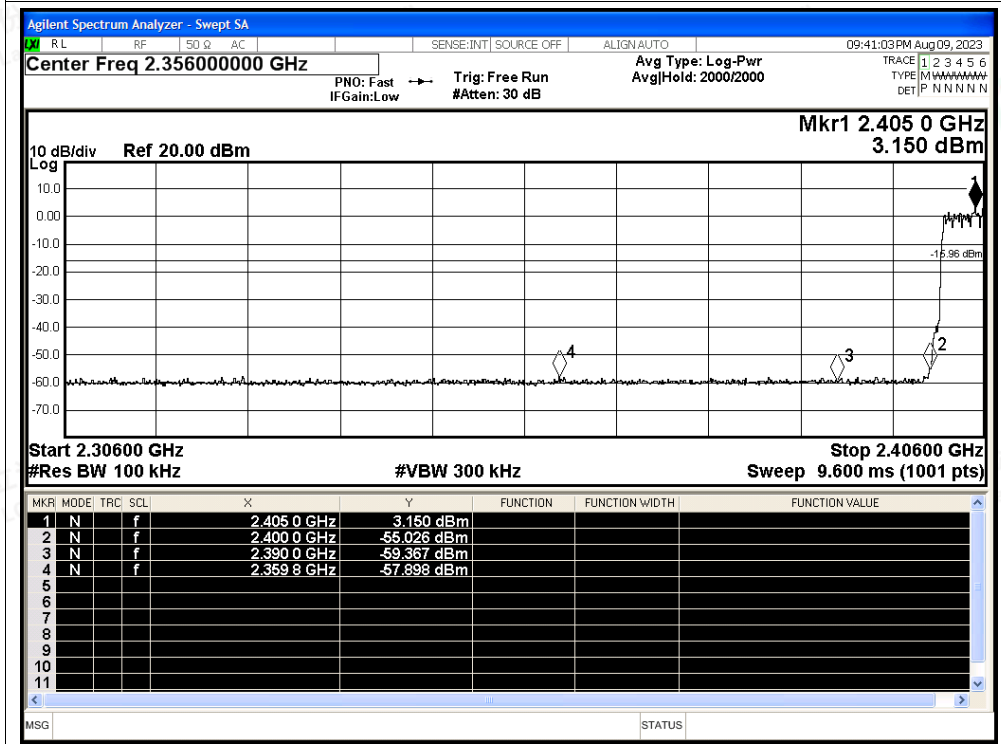




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

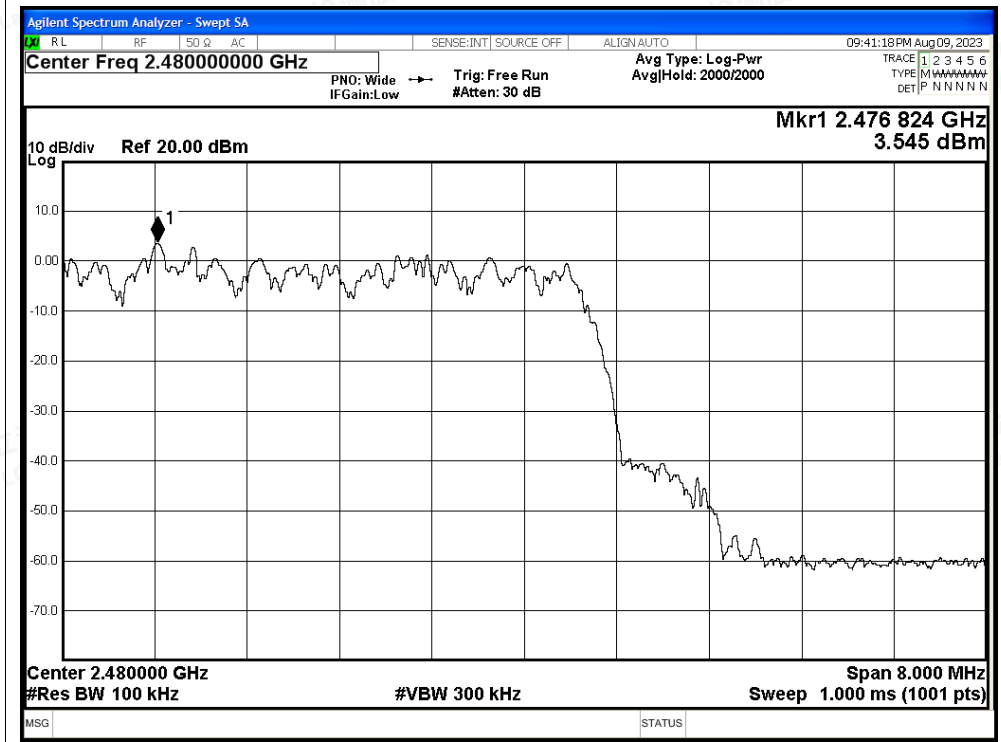


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

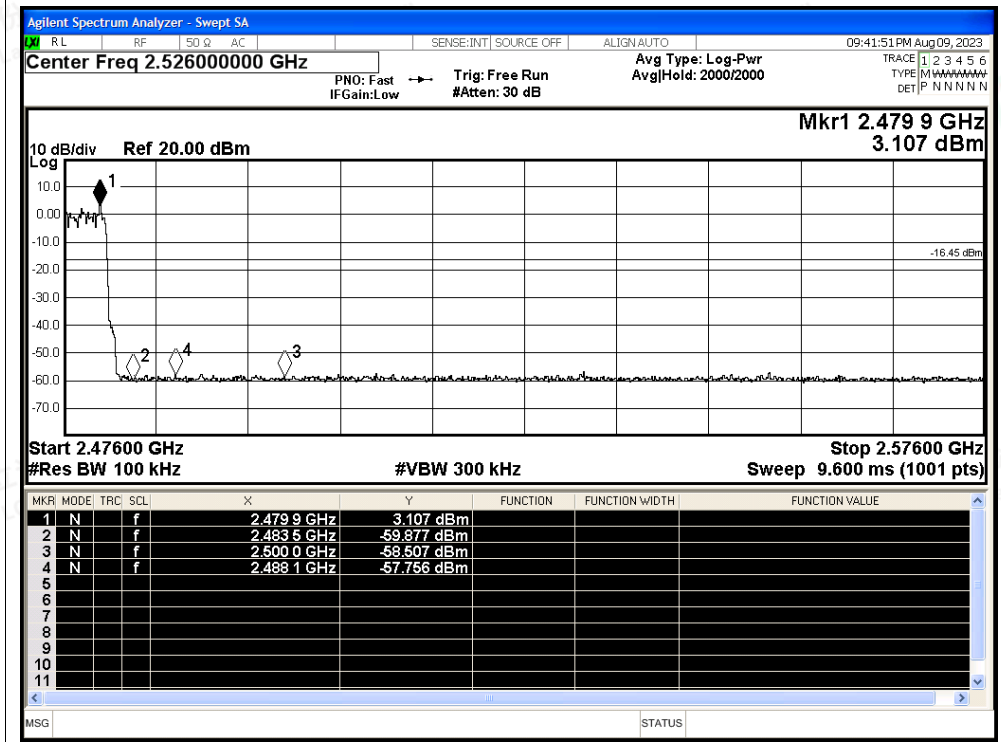




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission





A.7 Conducted RF Spurious Emission

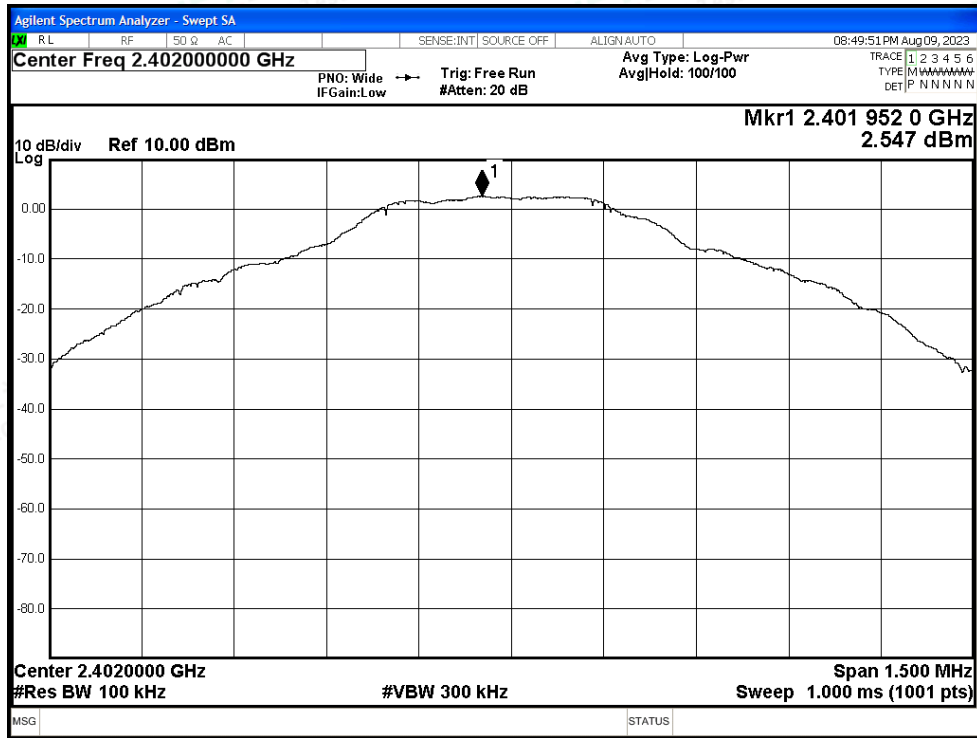
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-59.76	-20	Pass
NVNT	1-DH5	2441	Ant1	-59.55	-20	Pass
NVNT	1-DH5	2480	Ant1	-59.6	-20	Pass
NVNT	2-DH5	2402	Ant1	-59.31	-20	Pass
NVNT	2-DH5	2441	Ant1	-58.49	-20	Pass
NVNT	2-DH5	2480	Ant1	-58.68	-20	Pass
NVNT	3-DH5	2402	Ant1	-58.16	-20	Pass
NVNT	3-DH5	2441	Ant1	-57.33	-20	Pass
NVNT	3-DH5	2480	Ant1	-57.23	-20	Pass



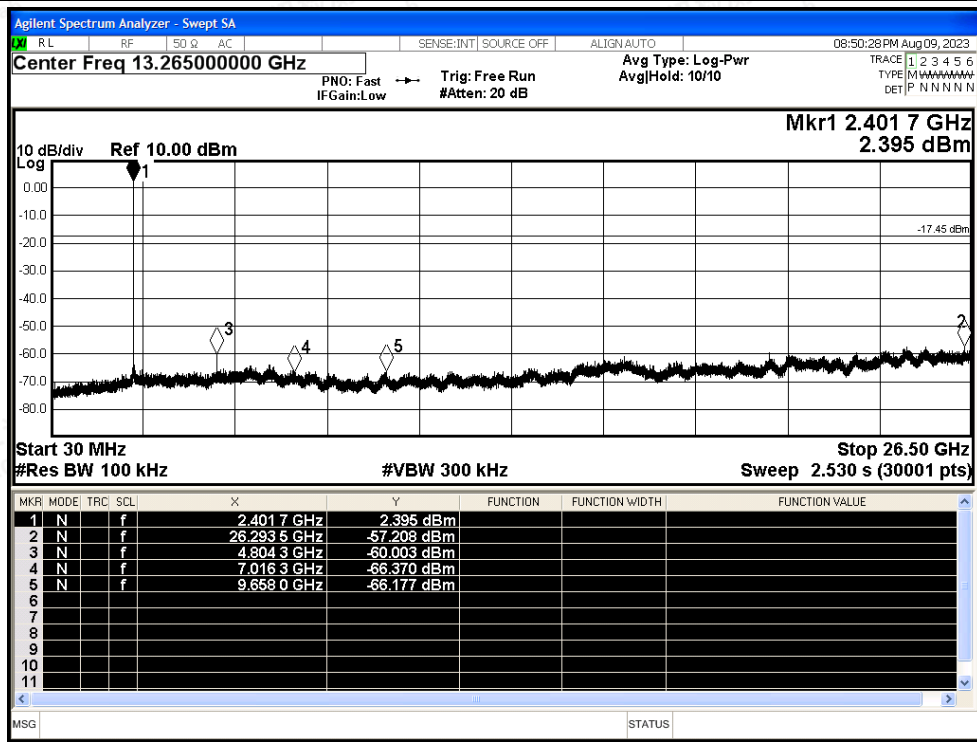


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

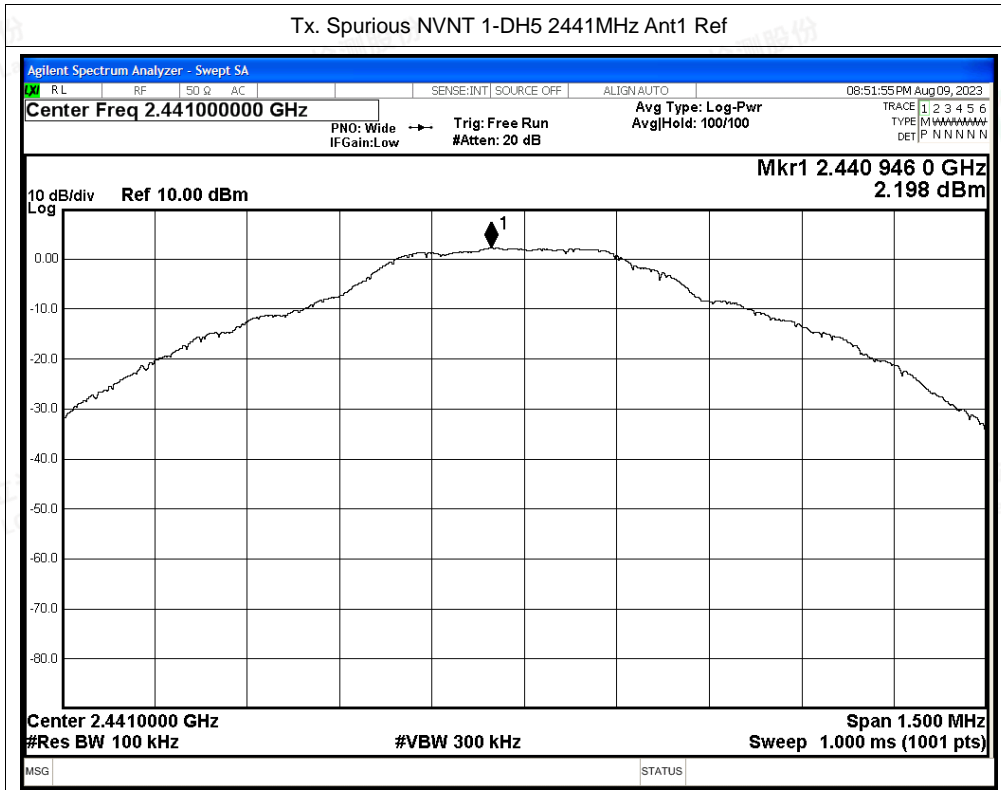


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

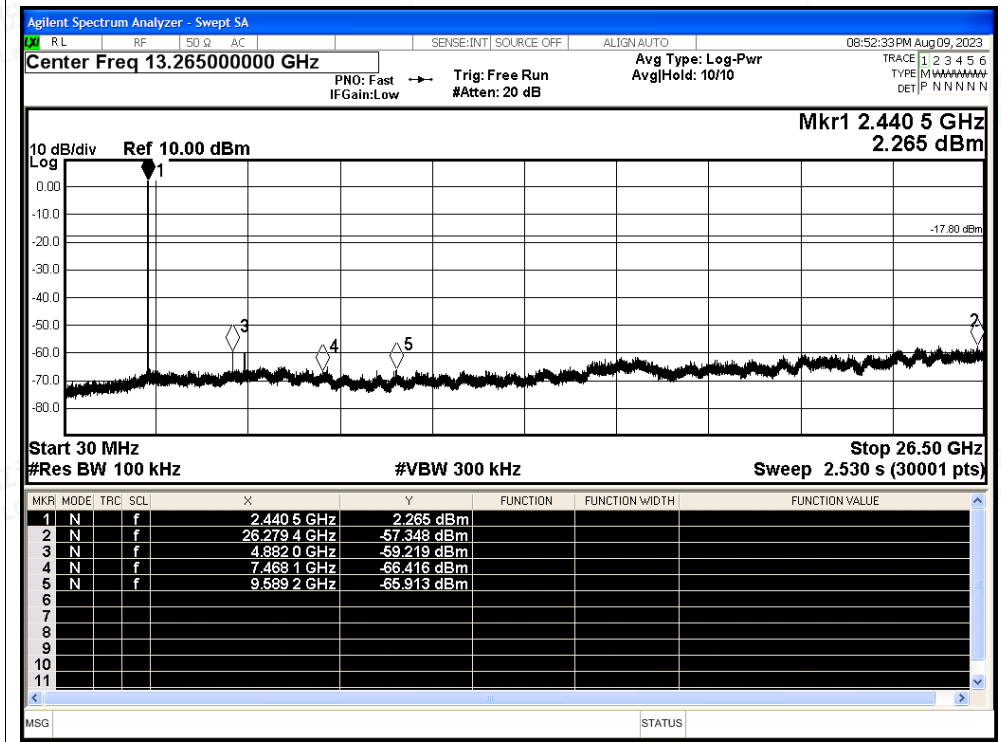




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

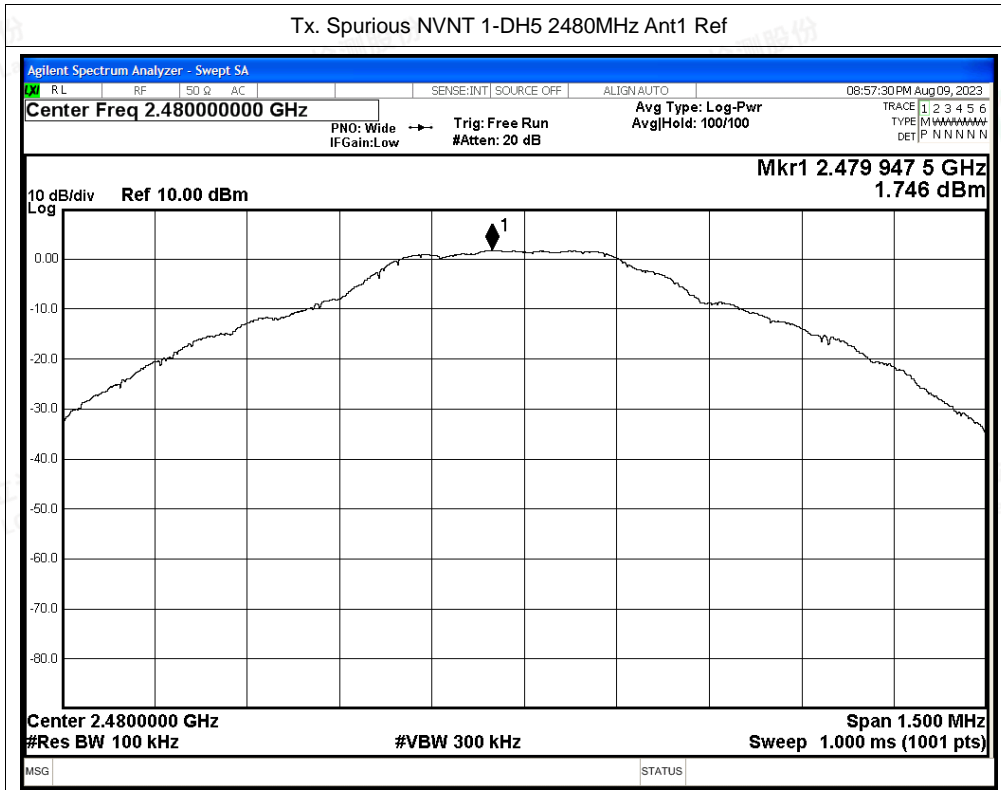


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

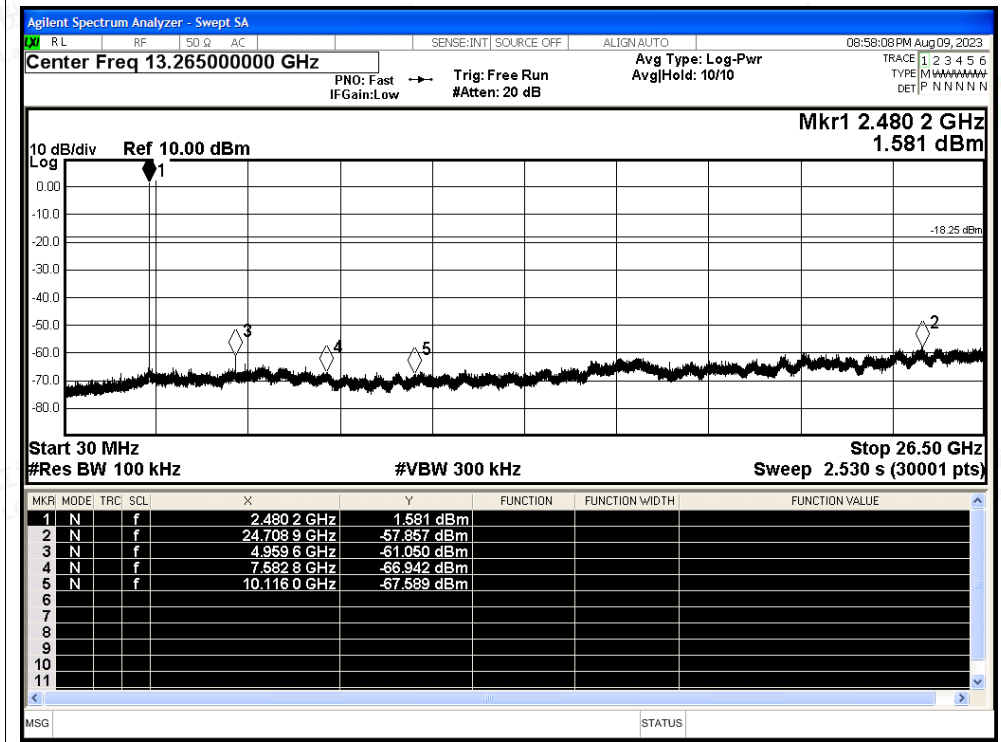




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

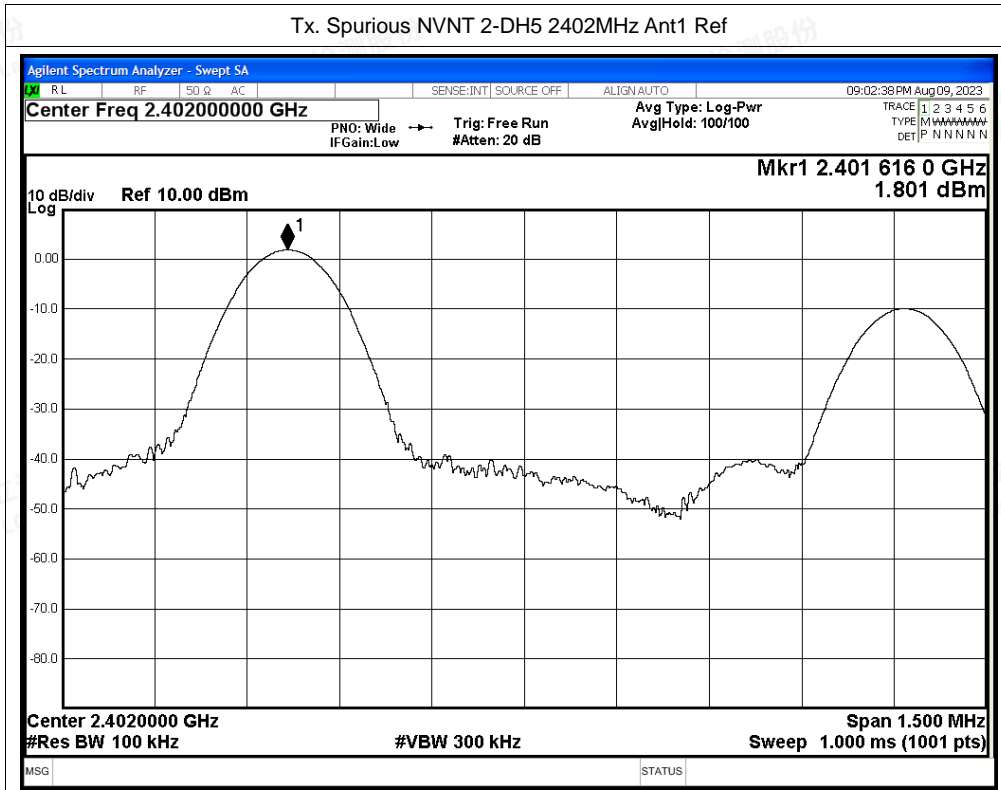


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

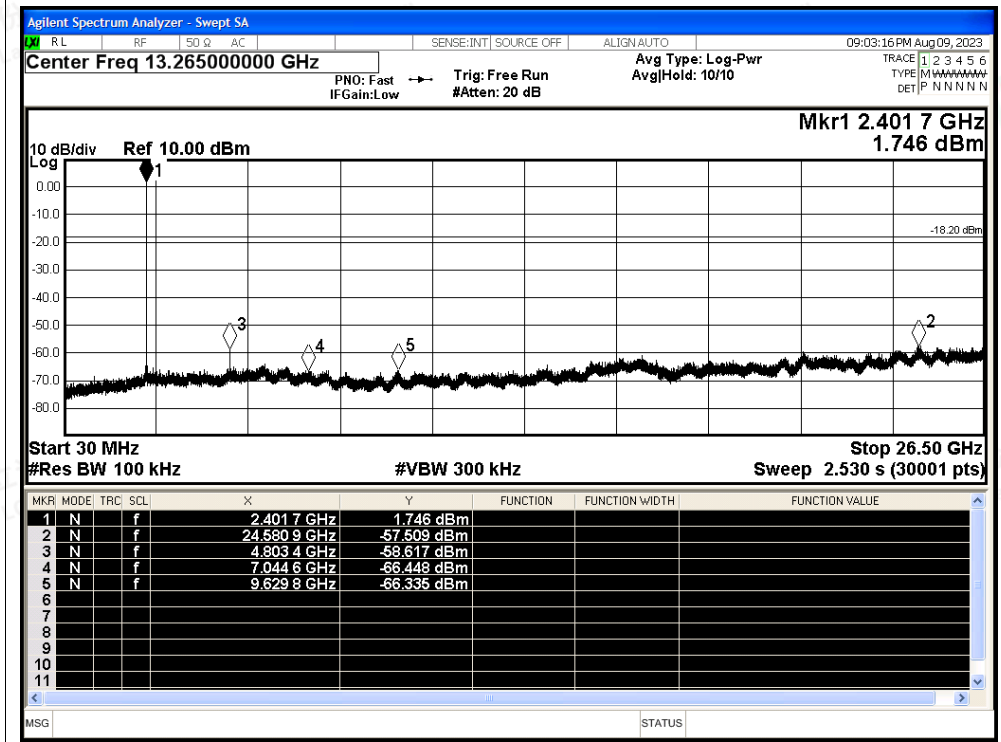




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

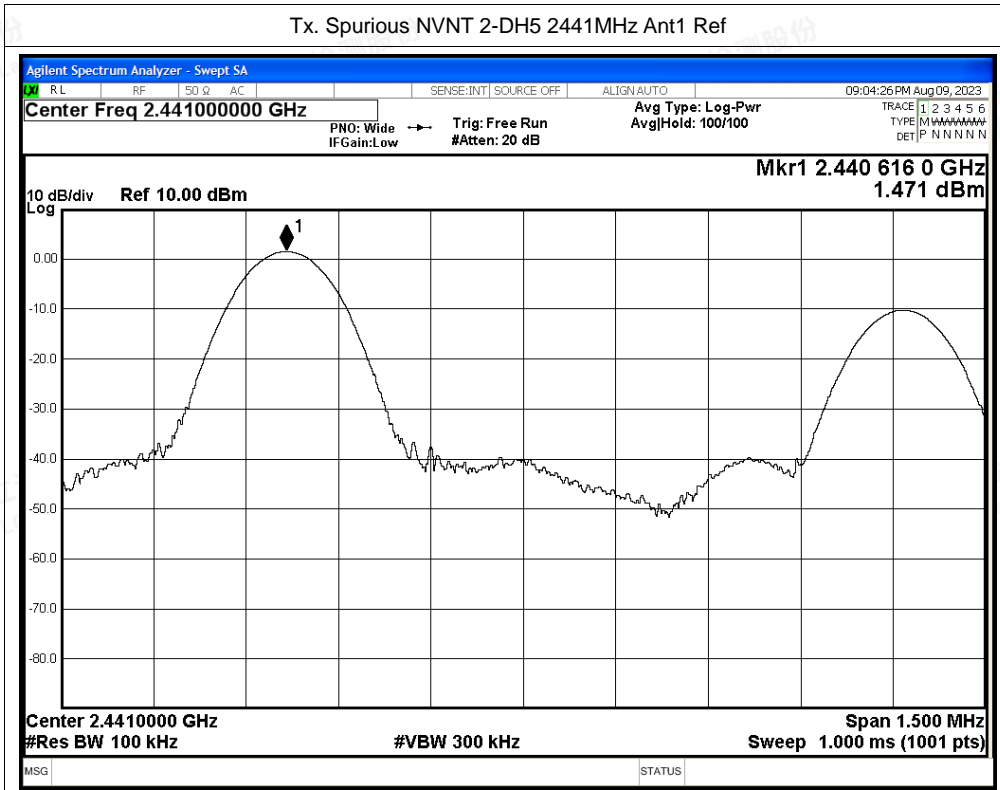


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

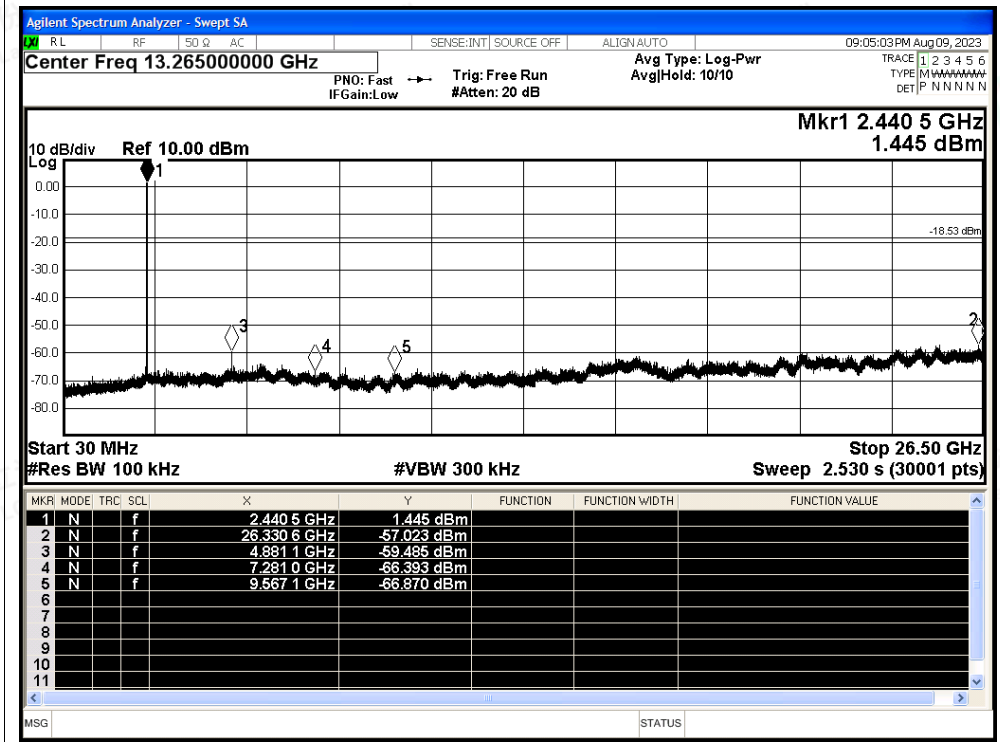




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

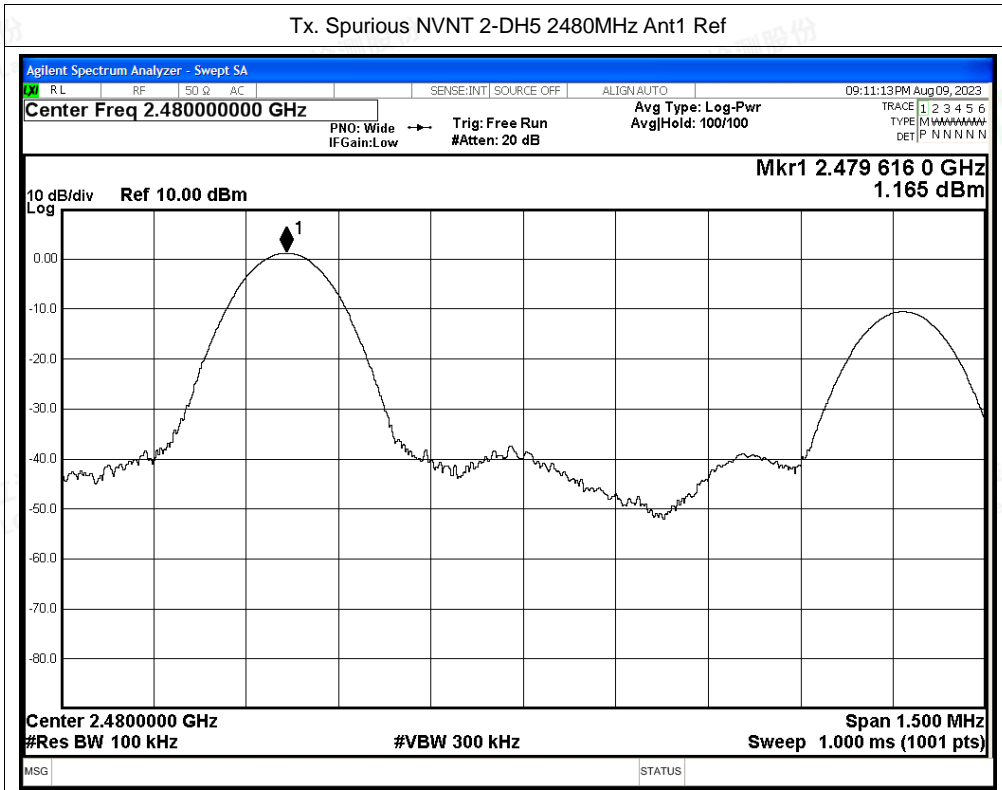


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

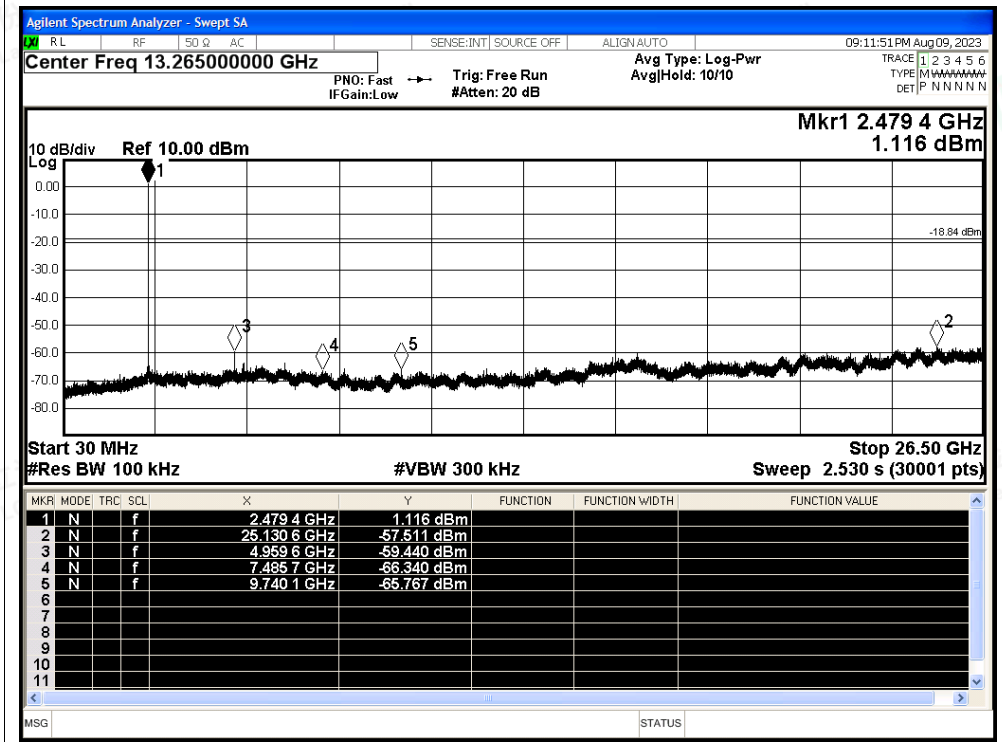




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

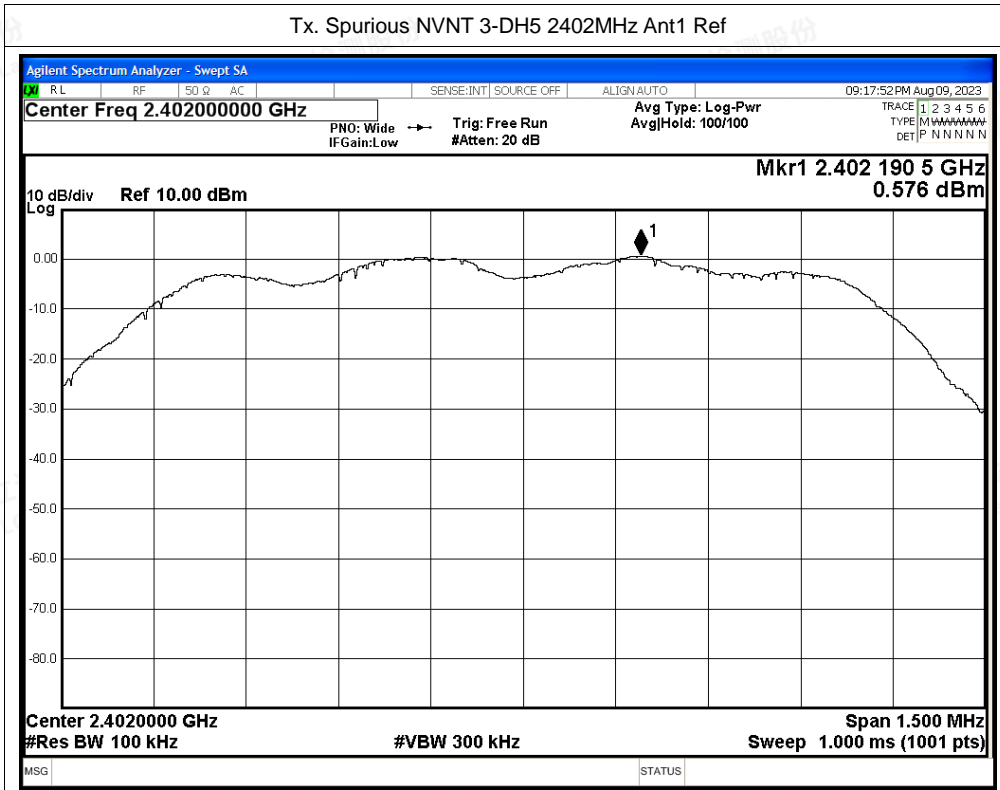


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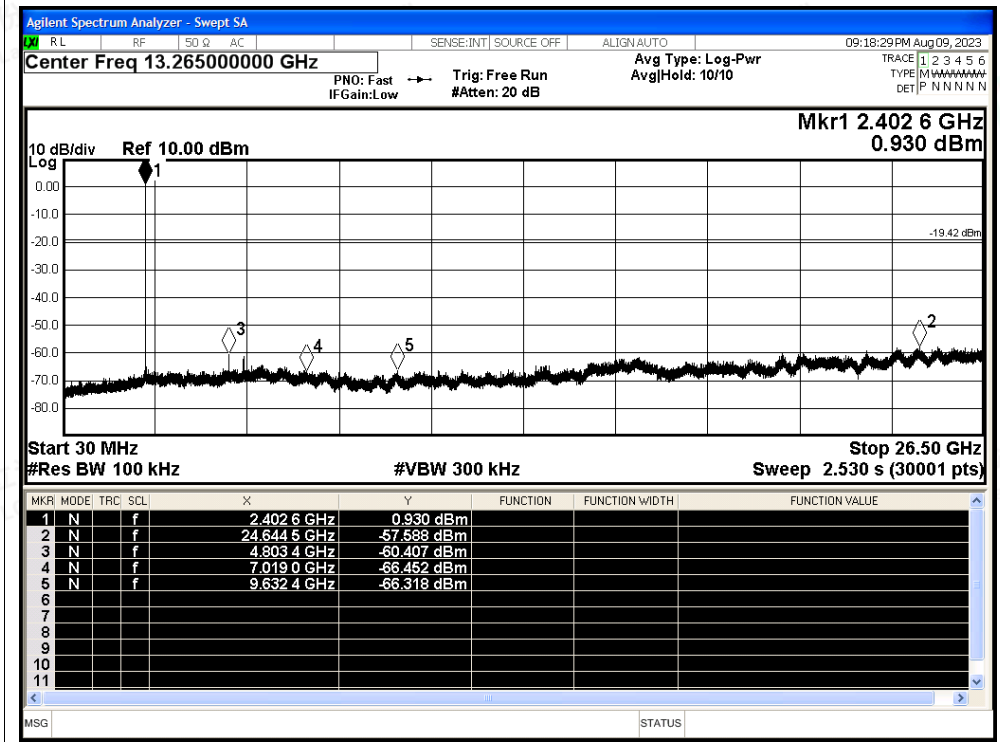




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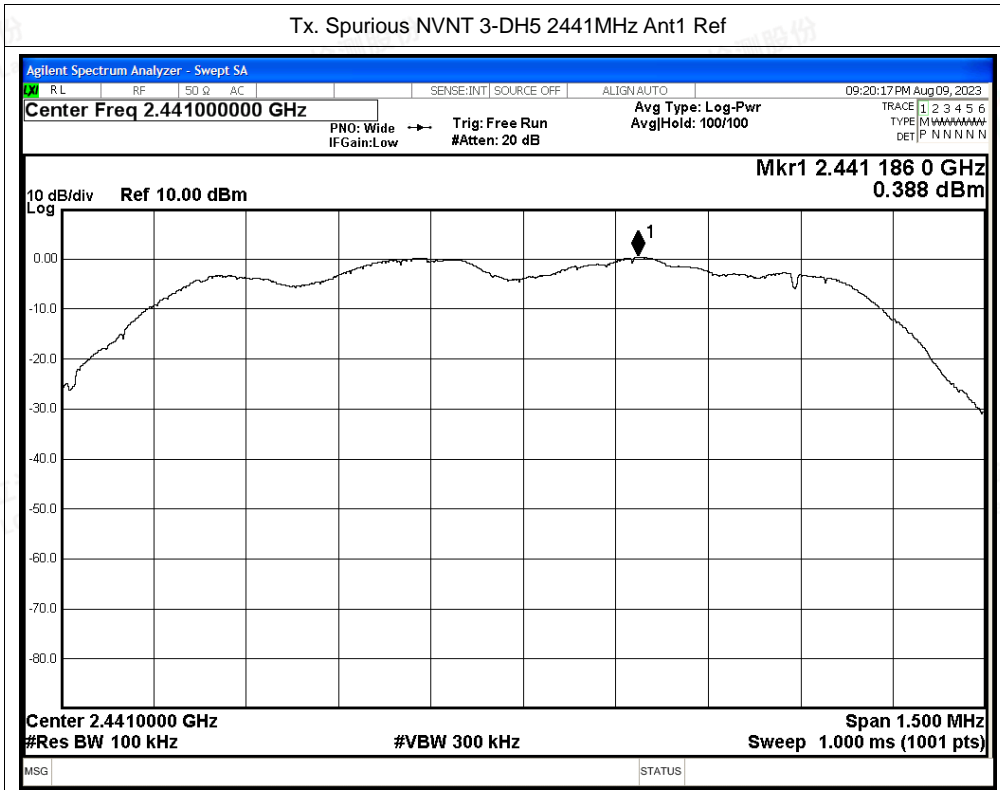


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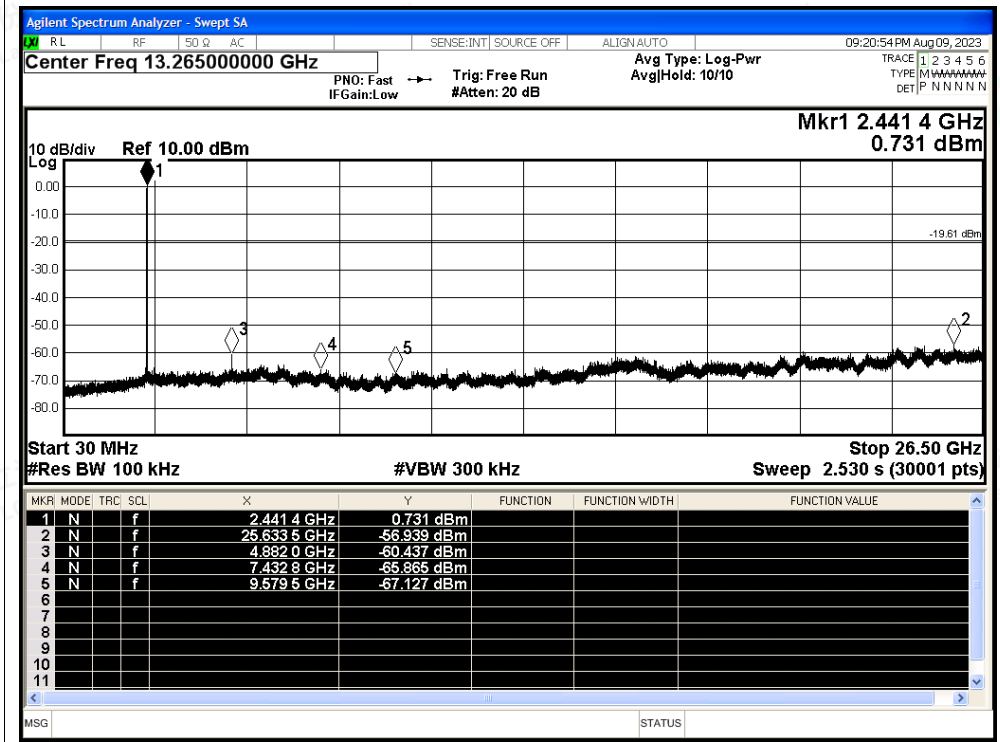




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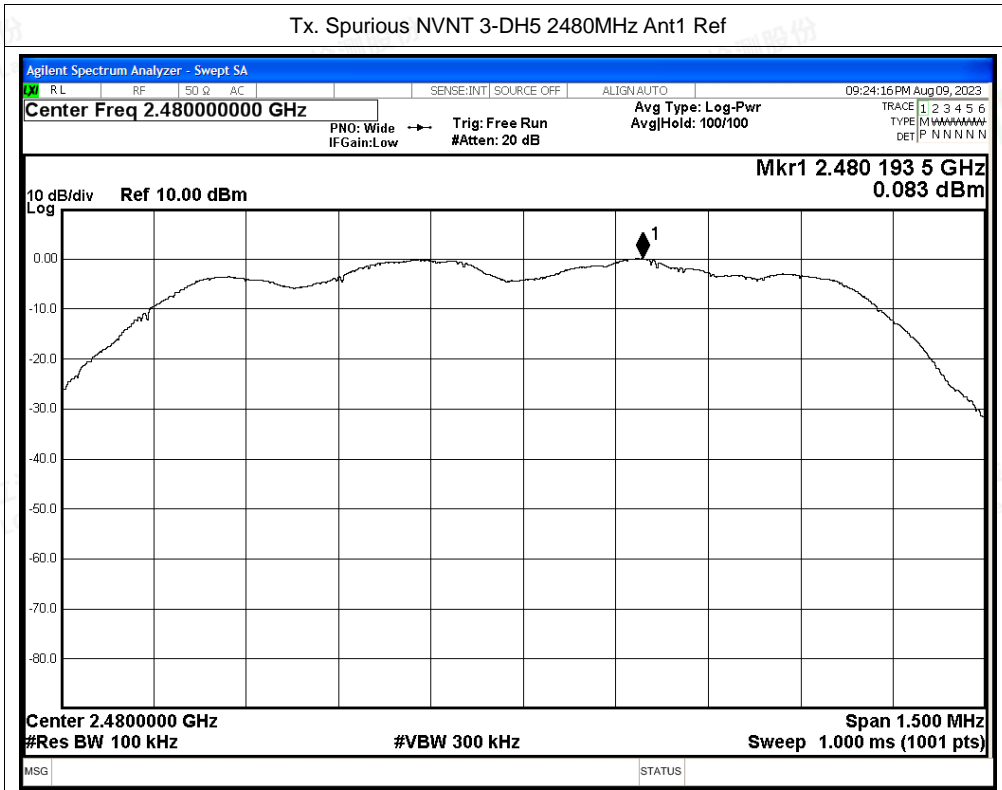


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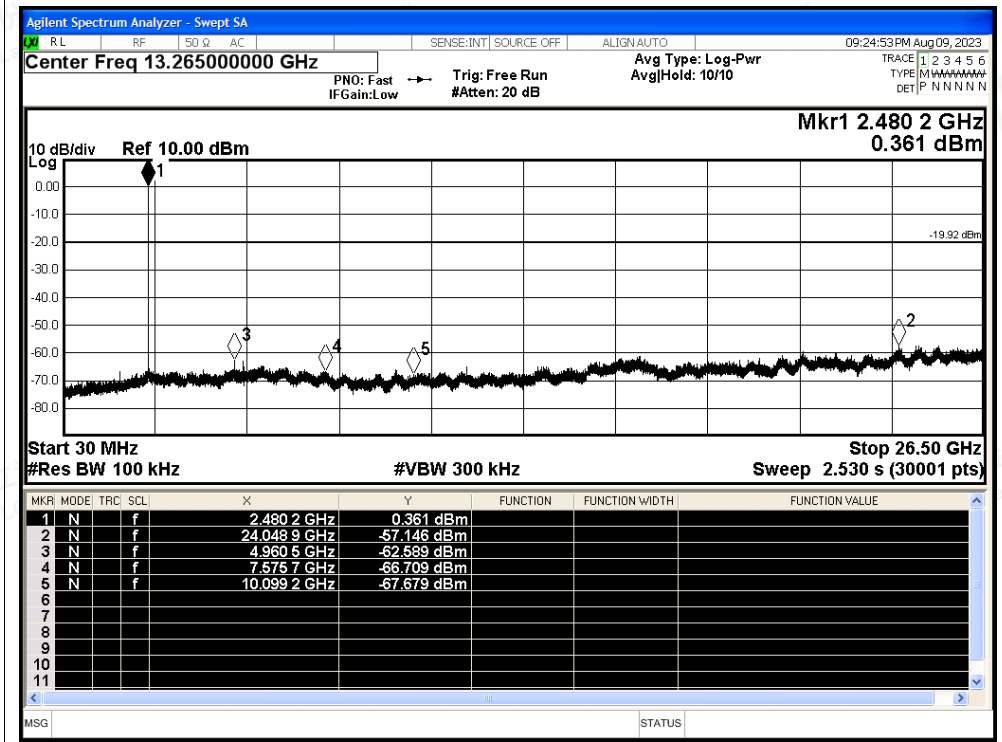




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-52.52	2	44.74	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-61.93	2	35.33	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382.48	-49.19	2	48.07	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2362.032	-60.97	2	36.29	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.38	2	45.88	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-61.33	2	35.93	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.02	2	47.24	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-60.22	2	37.04	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.656	-48.37	2	48.89	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-60.22	2	37.04	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-52.04	2	45.22	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-61.06	2	36.2	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.24	2	45.02	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-62.1	2	35.16	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2380.752	-48.98	2	48.28	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2361.456	-61.14	2	36.12	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.99	2	46.27	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-61.29	2	35.97	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.01	2	47.25	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-60.51	2	36.75	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2488.744	-48.94	2	48.32	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.536	-60.44	2	36.82	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.15	2	46.11	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-61.3	2	35.96	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.94	2	44.32	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-62.05	2	35.21	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2374.704	-49.2	2	48.06	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2382.096	-61.11	2	36.15	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.99	2	45.27	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-61.46	2	35.8	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.32	2	46.94	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-60.08	2	37.18	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2497.144	-47.95	2	49.31	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.536	-60.08	2	37.18	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.42	2	46.84	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-61.07	2	36.19	Average	54	Pass



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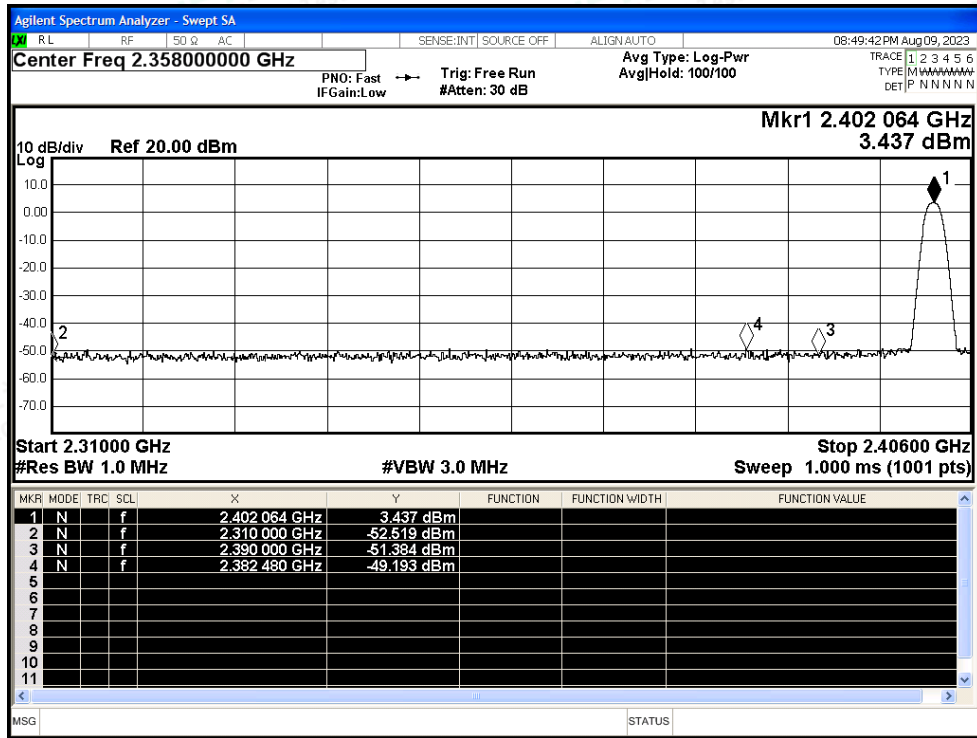
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

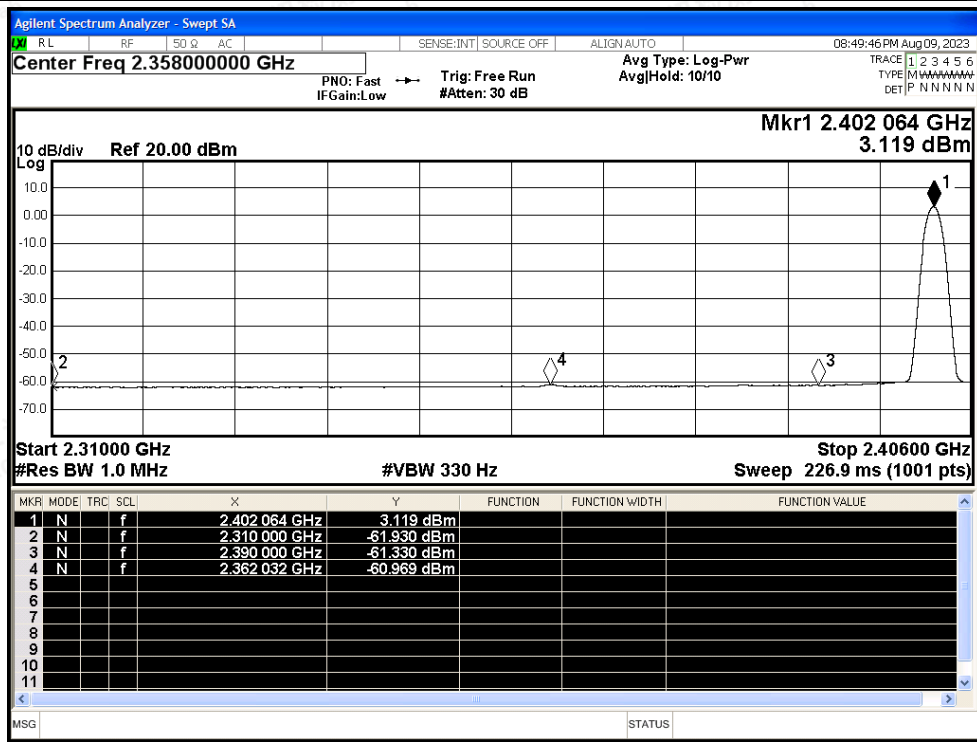


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak

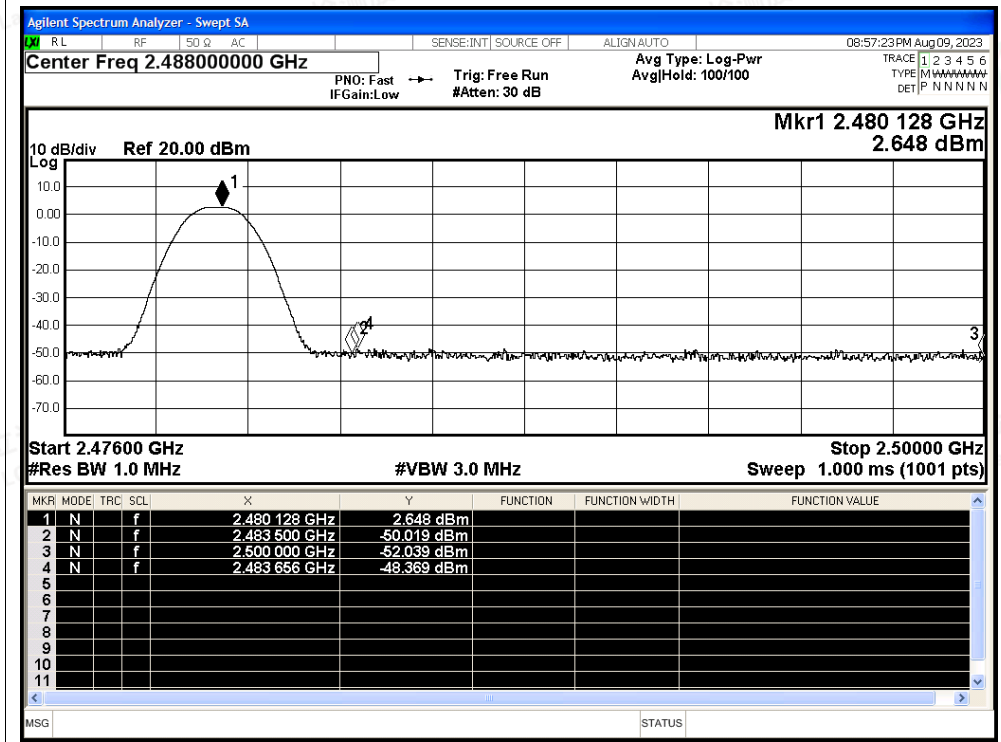


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

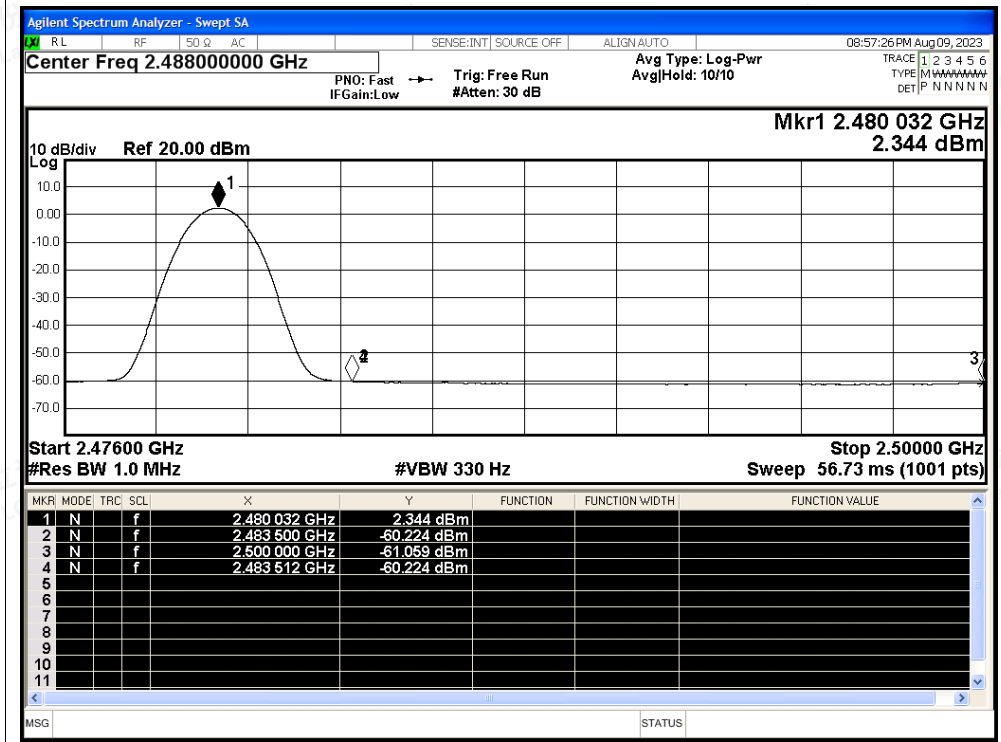


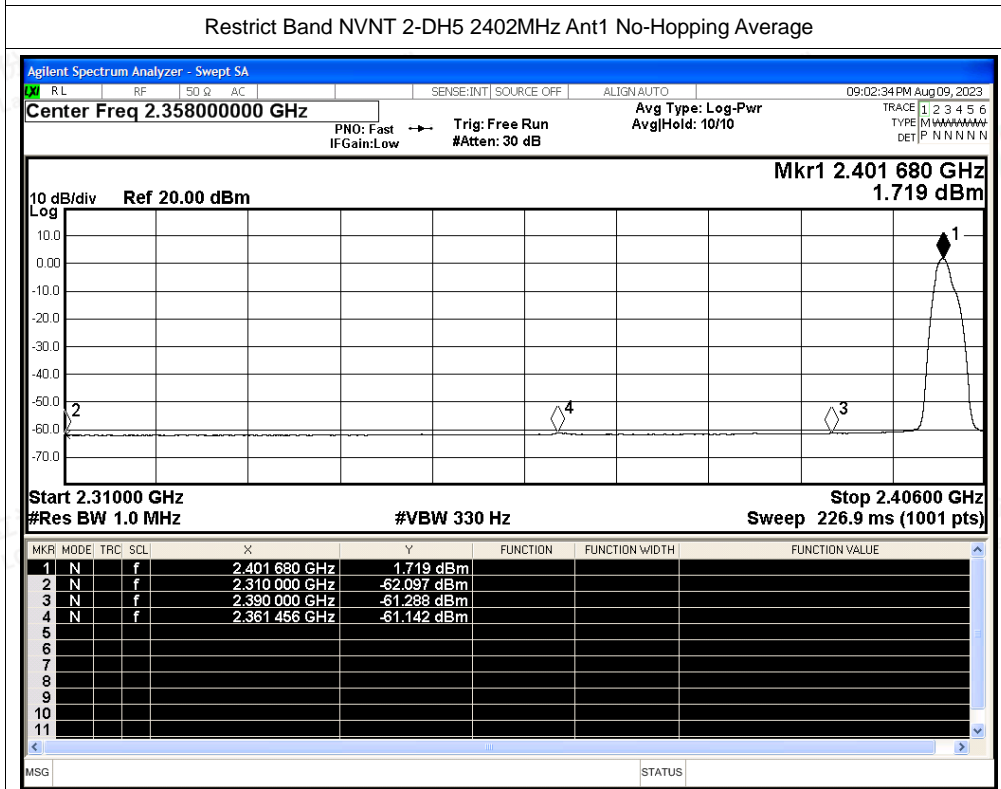
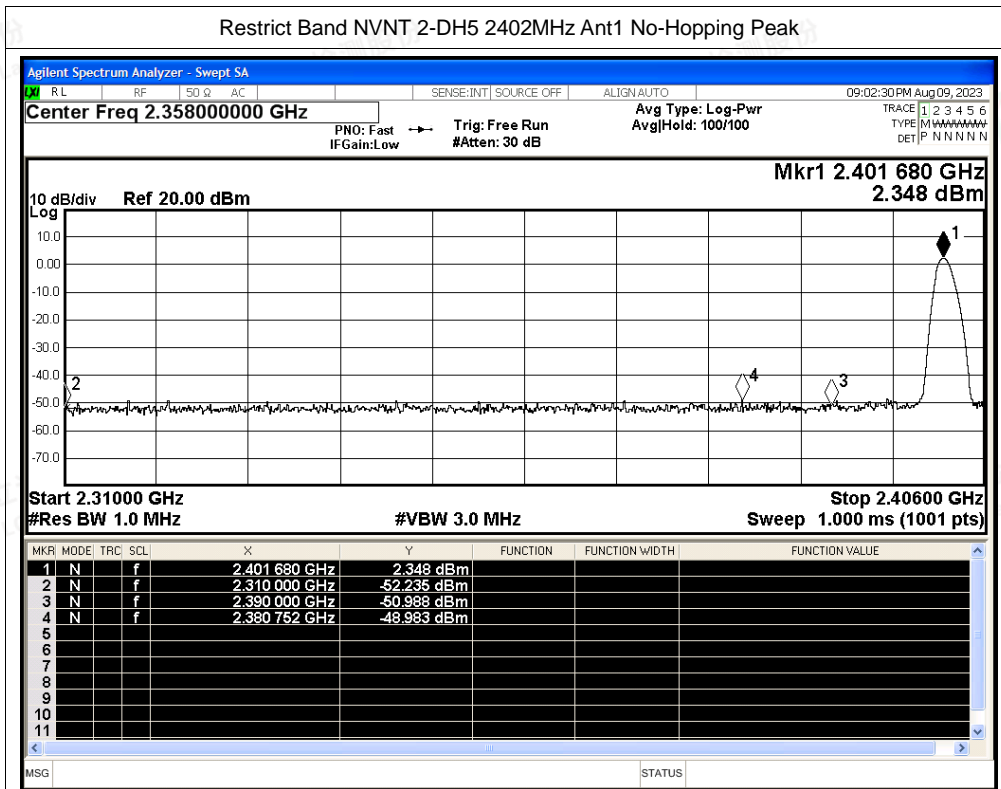


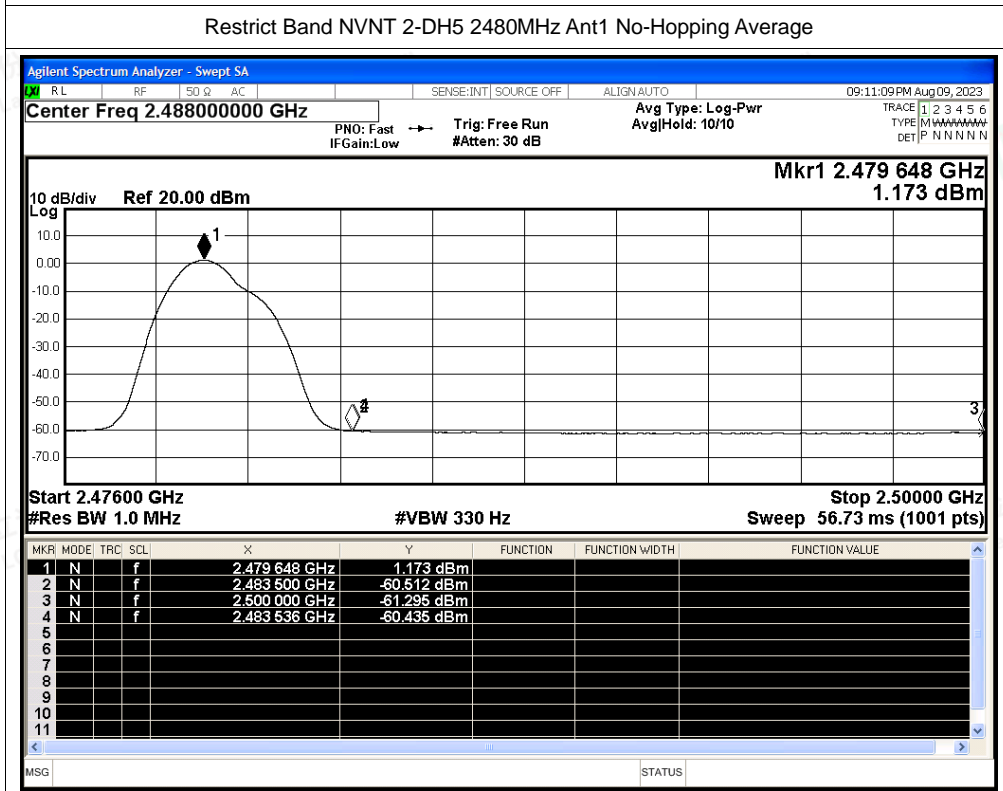
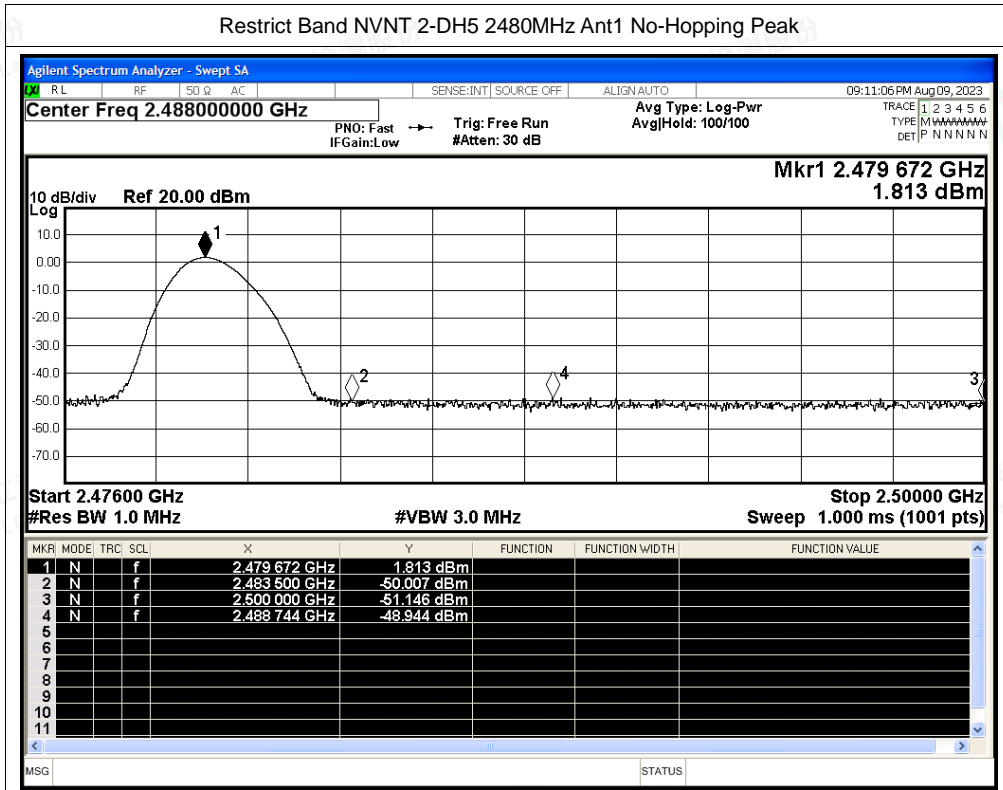
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average







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