



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart TV

Test Model: VI-32T232

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.939	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.991	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.951	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.29	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.285	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.283	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.302	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.299	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.291	N/A	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

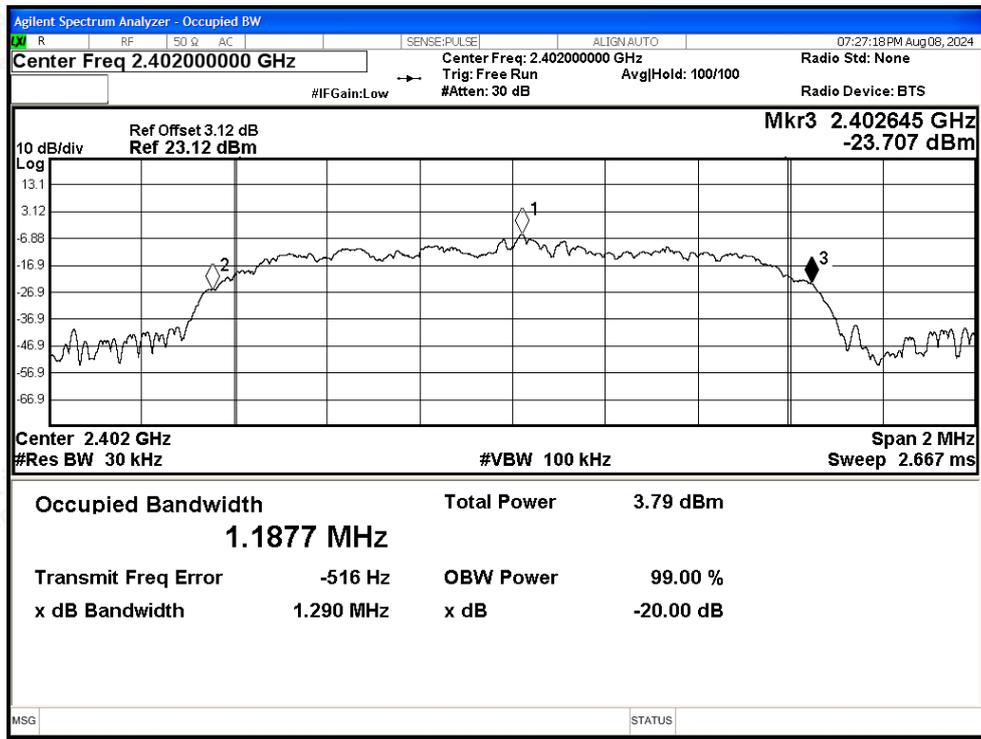




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

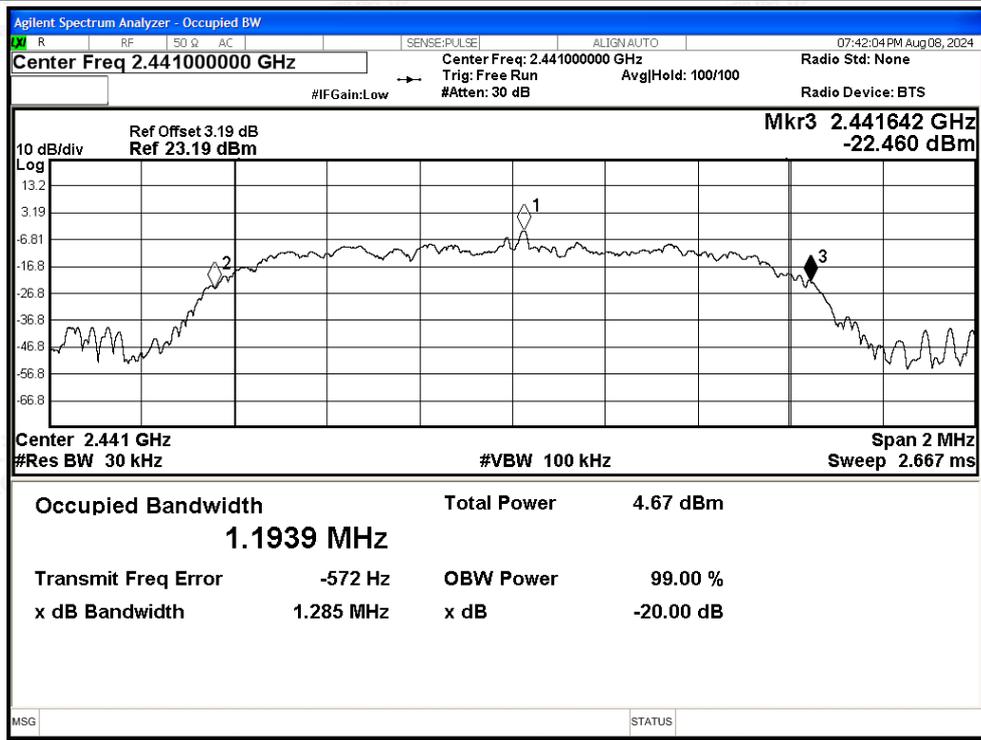


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

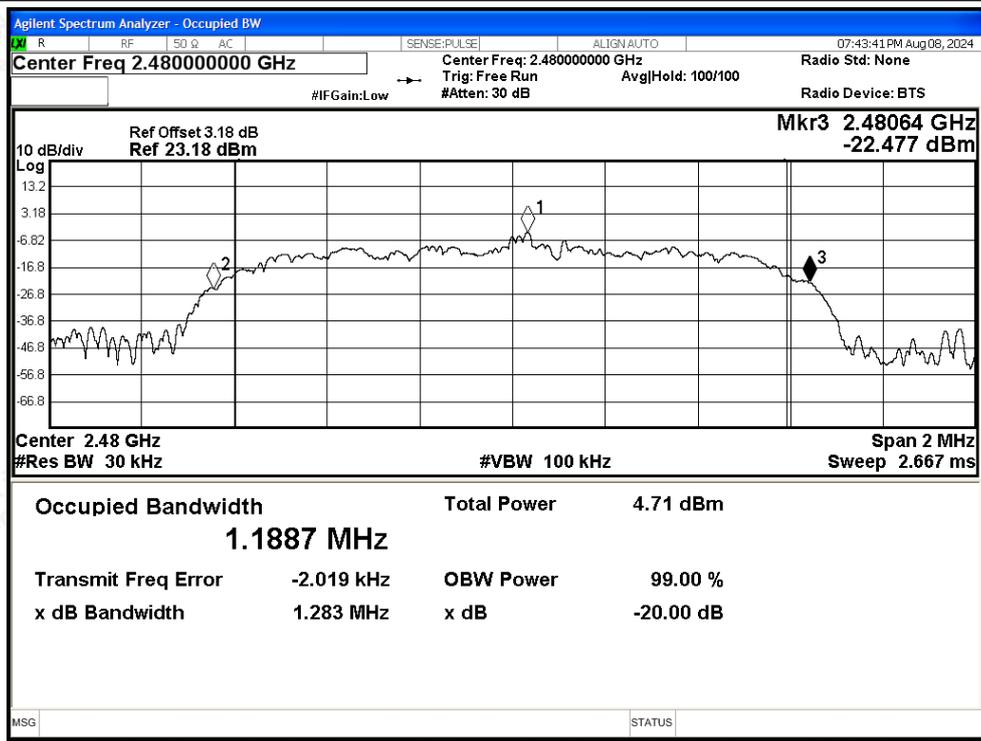




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

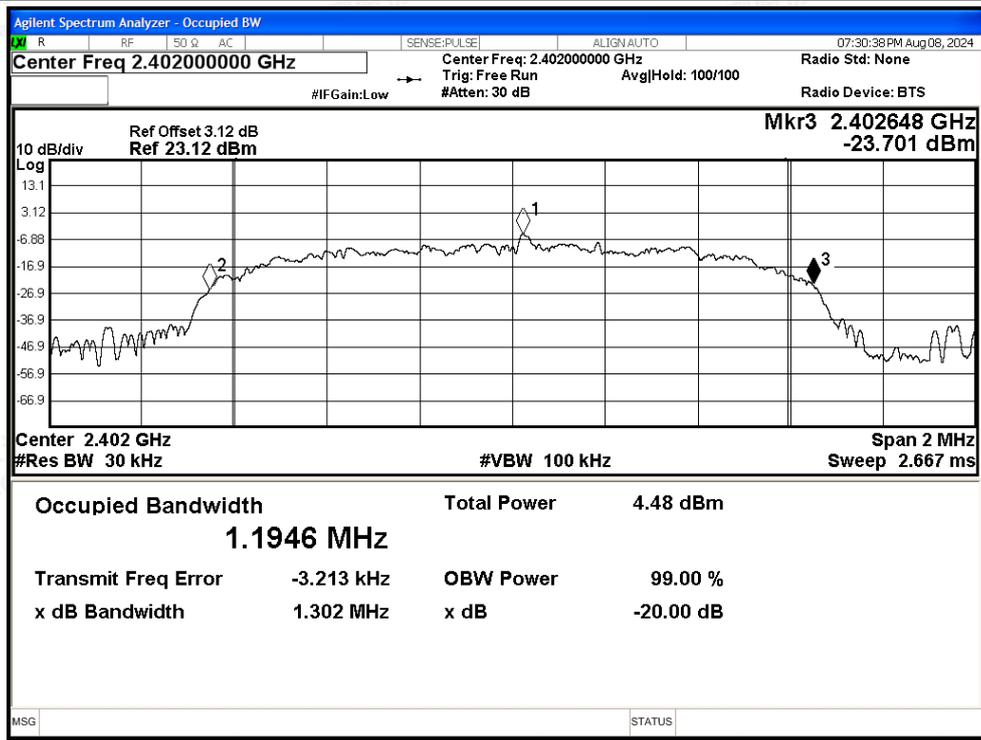


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

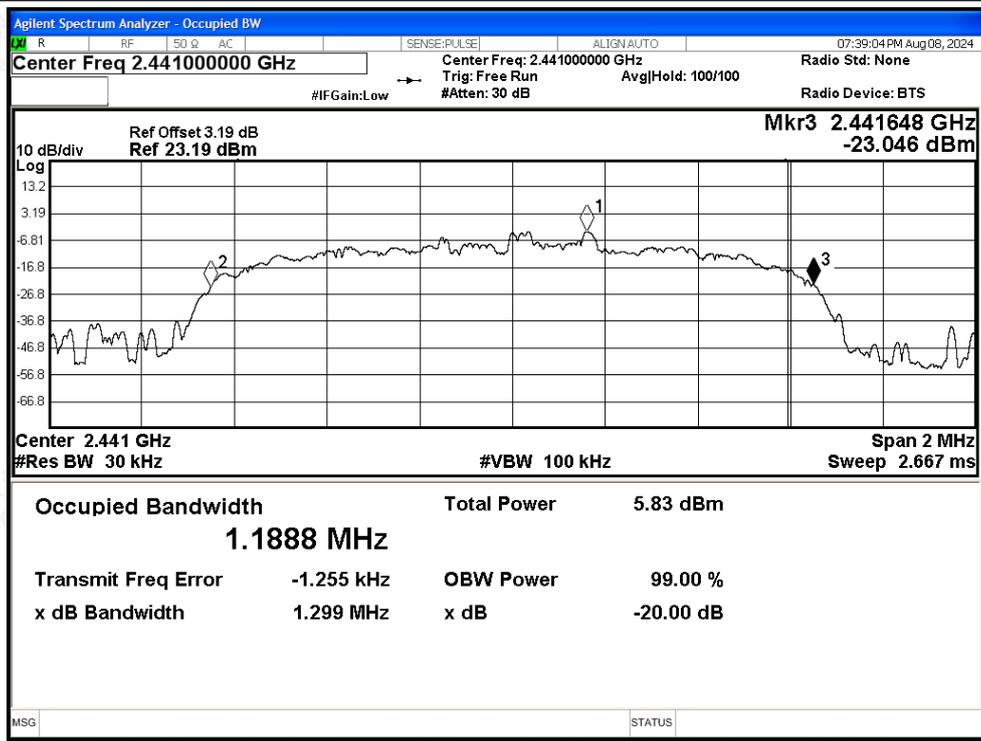


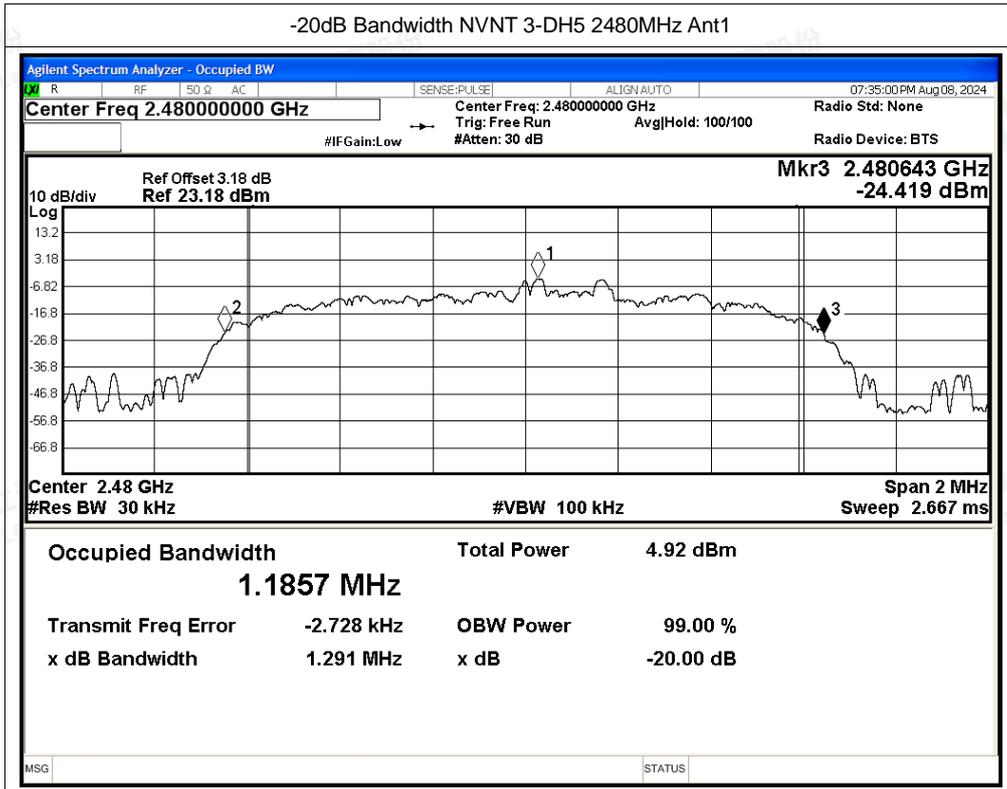


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Peak Conducted Output Power

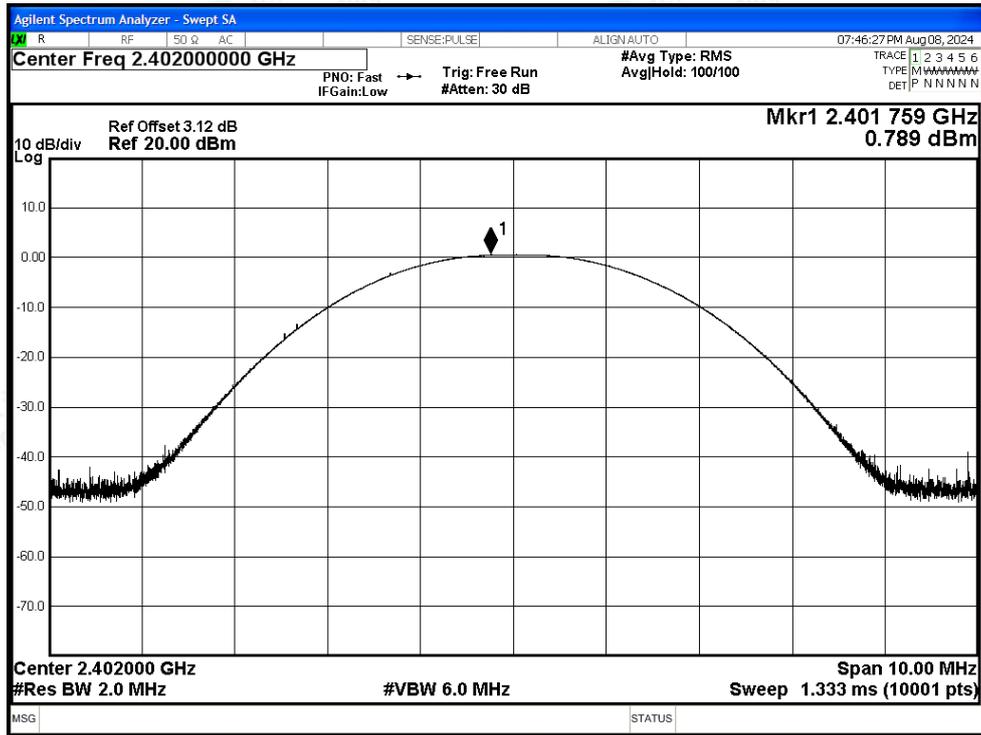
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.79	21	Pass
NVNT	1-DH5	2441	Ant1	0.7	21	Pass
NVNT	1-DH5	2480	Ant1	0.27	21	Pass
NVNT	2-DH5	2402	Ant1	-0.35	21	Pass
NVNT	2-DH5	2441	Ant1	0.83	21	Pass
NVNT	2-DH5	2480	Ant1	0.7	21	Pass
NVNT	3-DH5	2402	Ant1	0.8	21	Pass
NVNT	3-DH5	2441	Ant1	0.72	21	Pass
NVNT	3-DH5	2480	Ant1	0.45	21	Pass



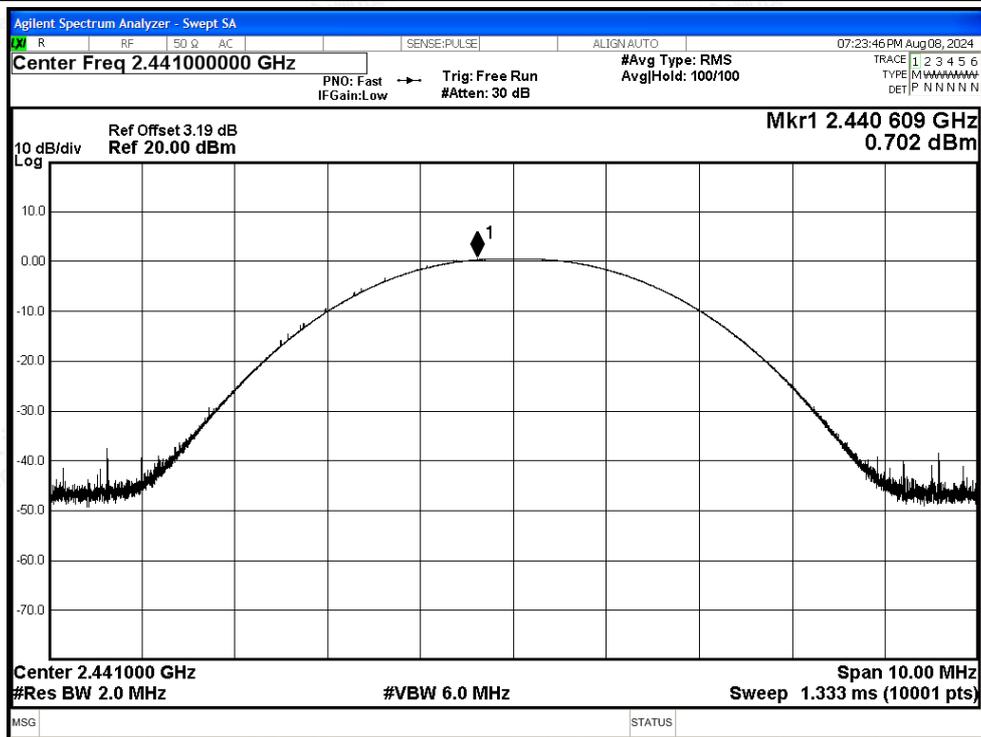


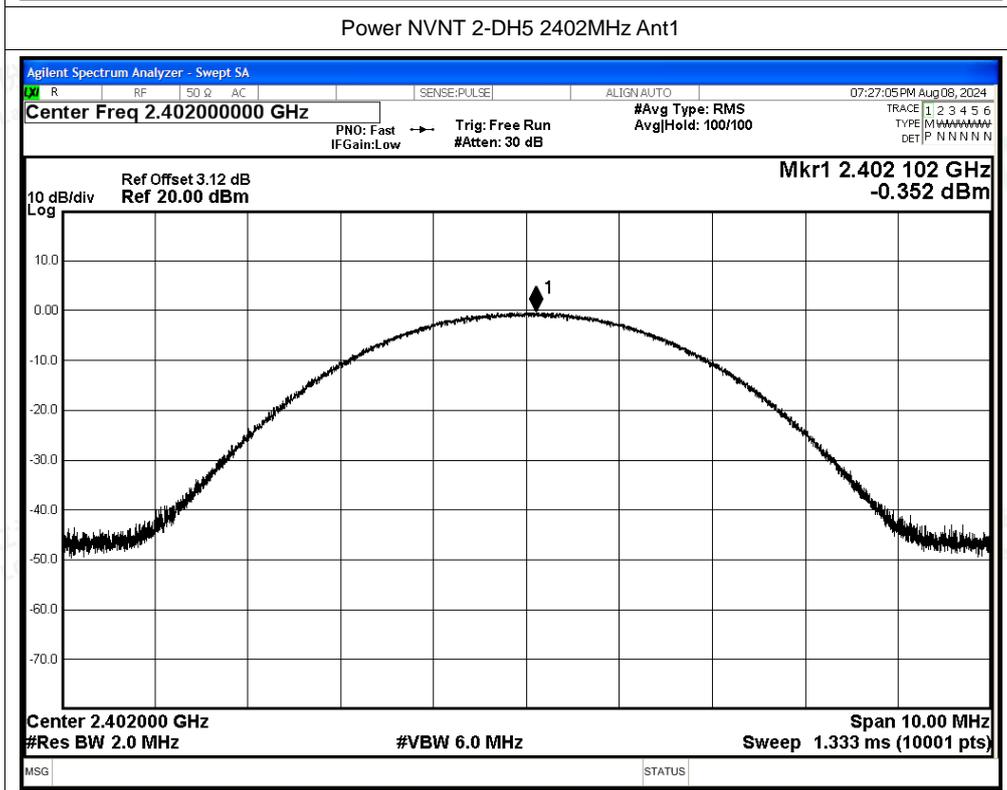
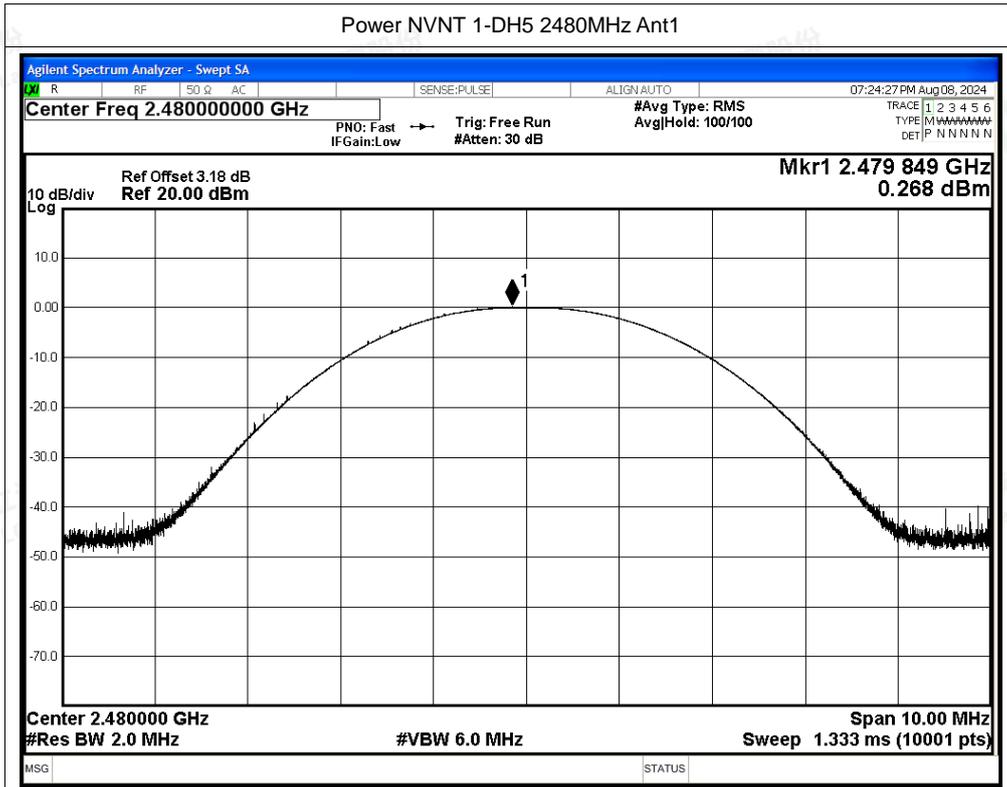
Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



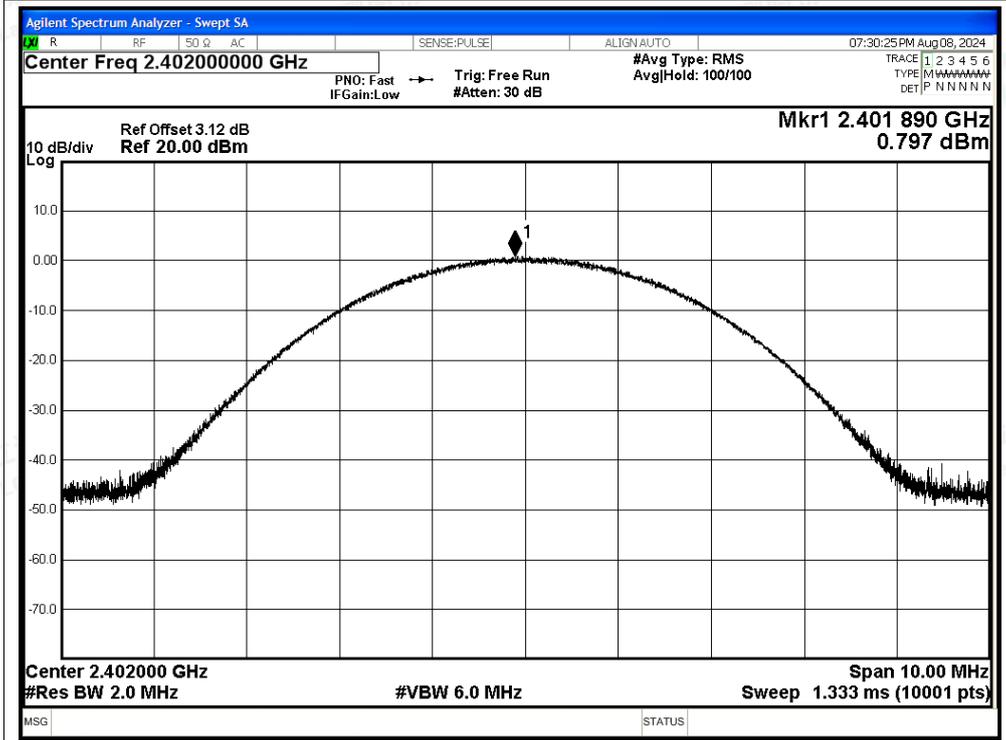
Power NVNT 1-DH5 2441MHz Ant1



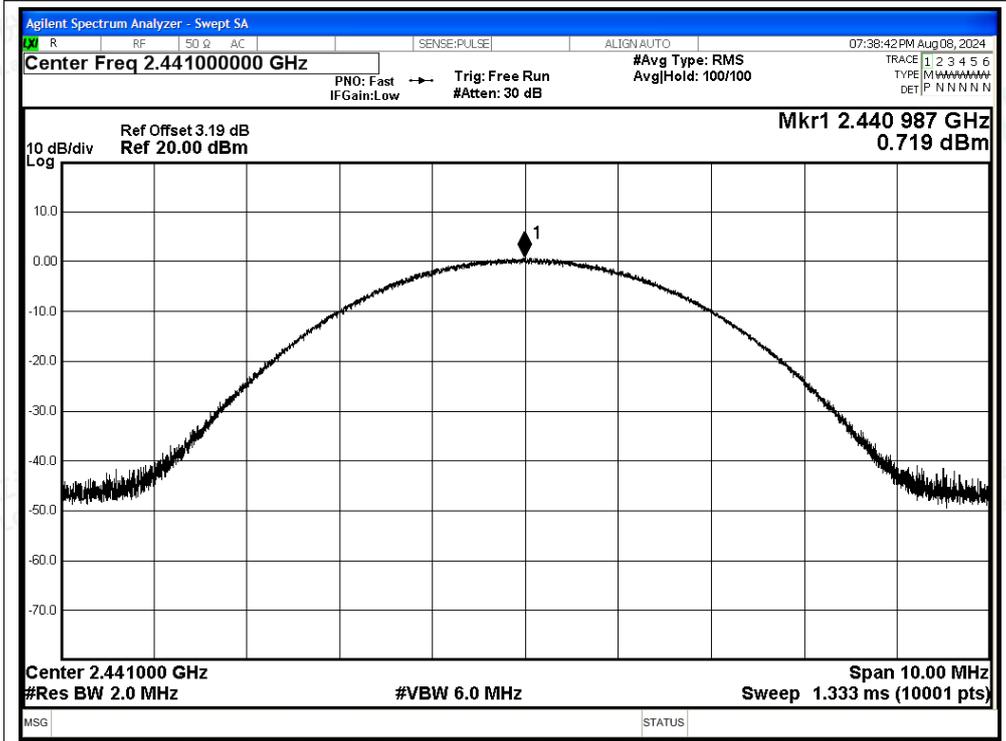


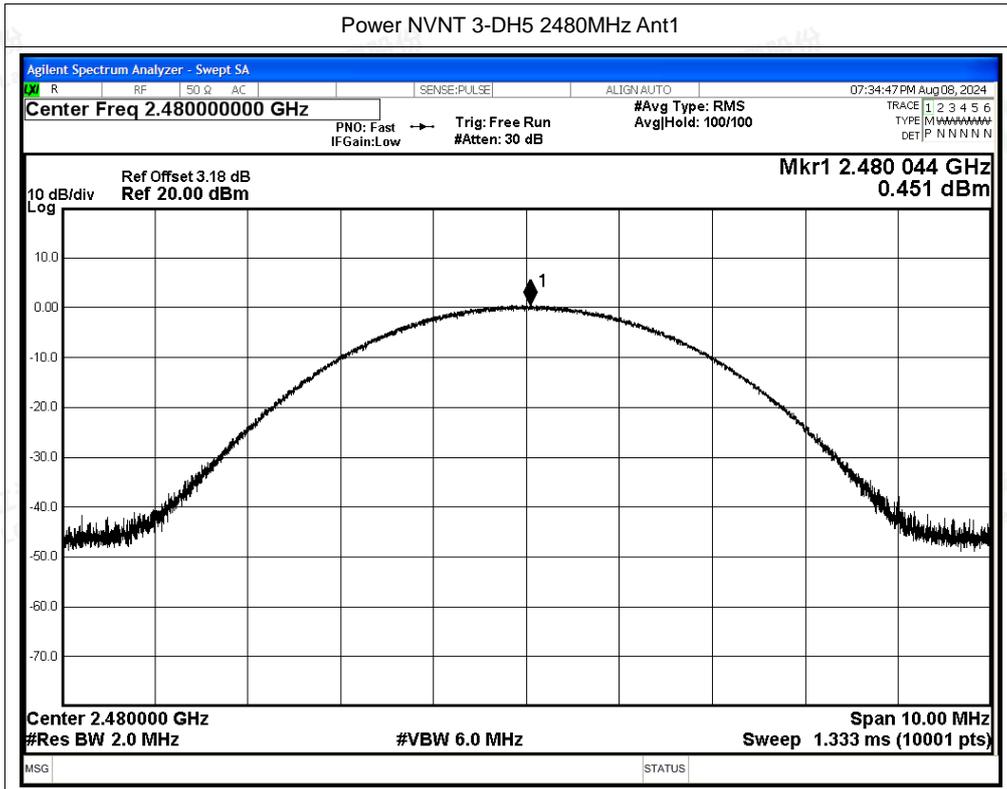


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

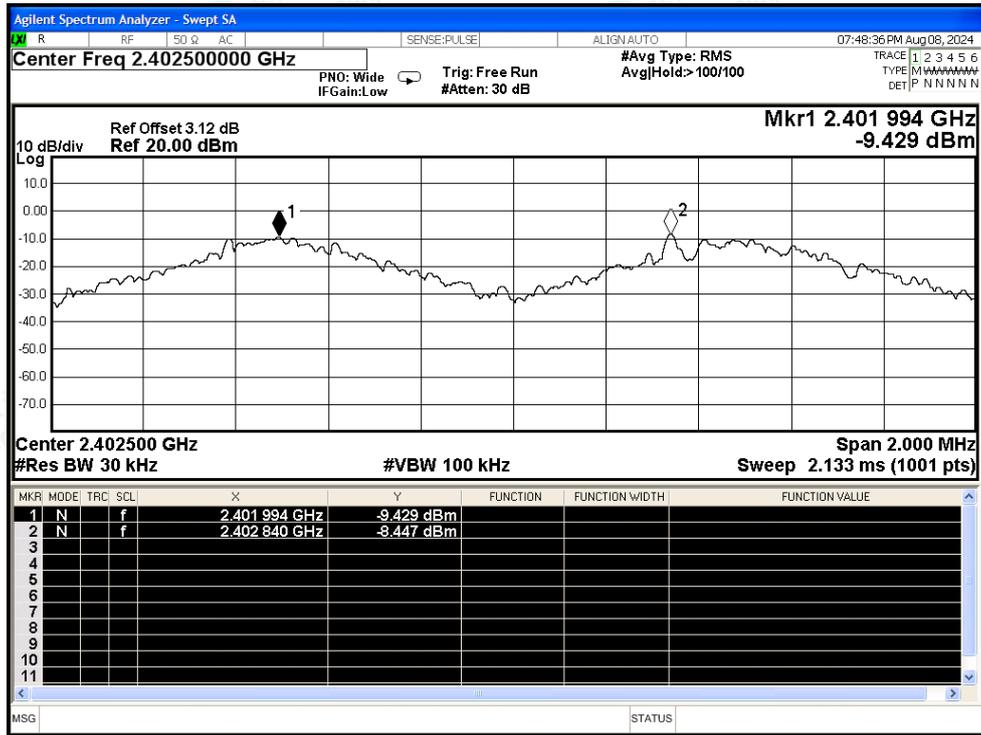
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.994	2402.84	0.846	0.661	Pass
NVNT	2-DH5	Ant1	2402.014	2403.022	1.008	0.860	Pass
NVNT	3-DH5	Ant1	2402	2403.03	1.03	0.868	Pass



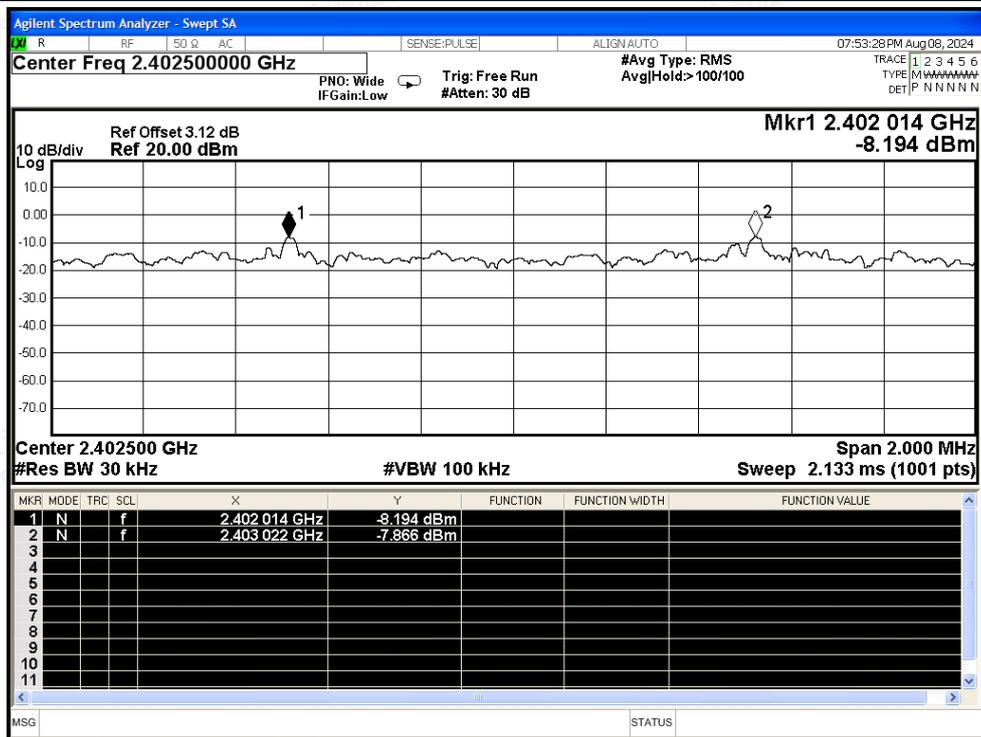


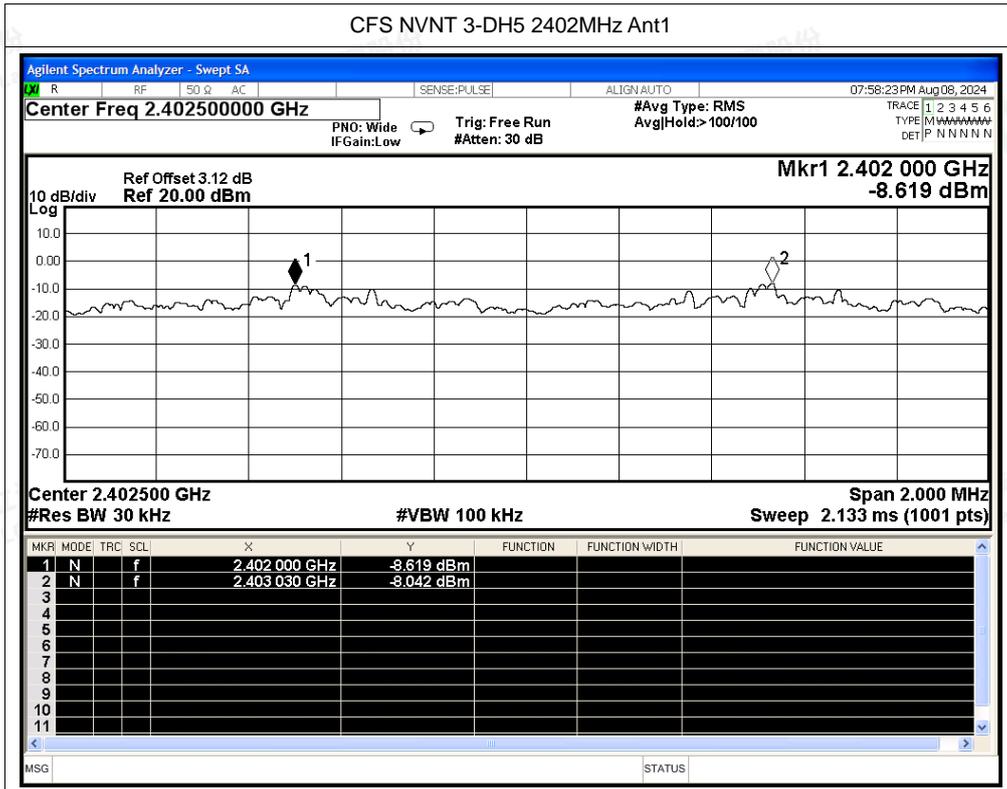
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

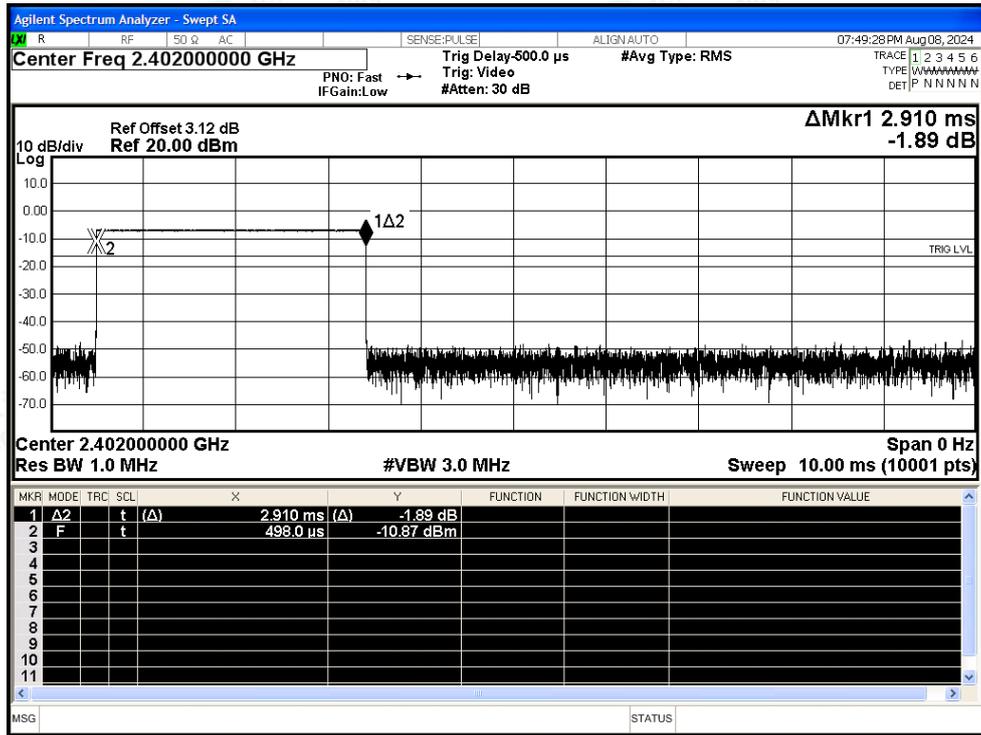
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.91	331.74	114	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.897	309.979	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	304.185	105	31600	400	Pass



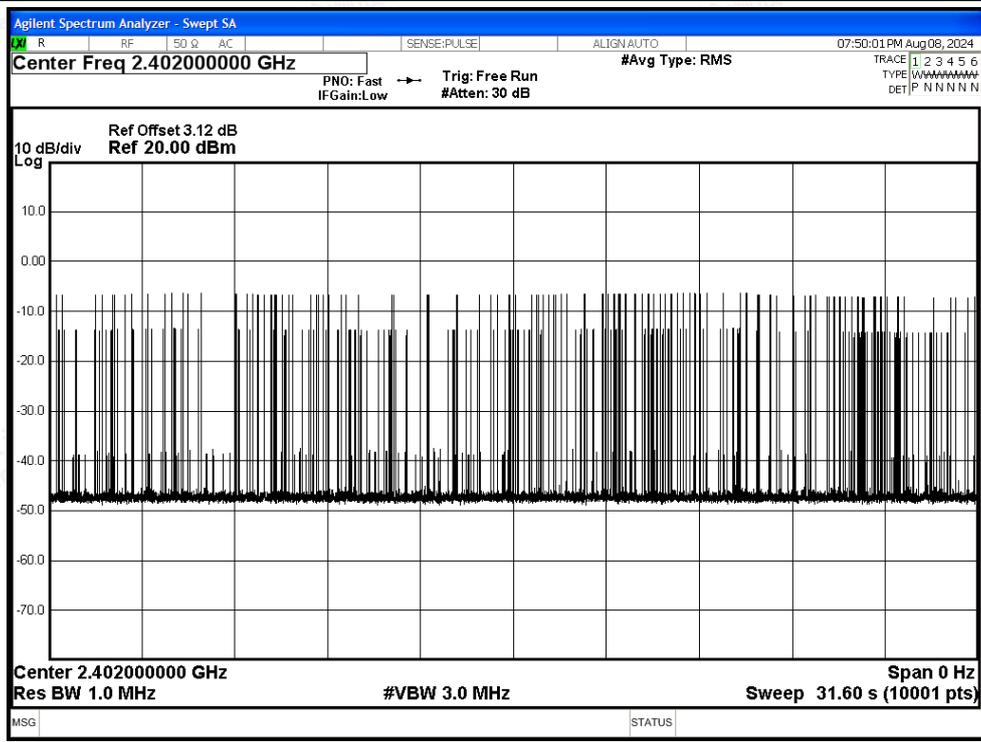


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

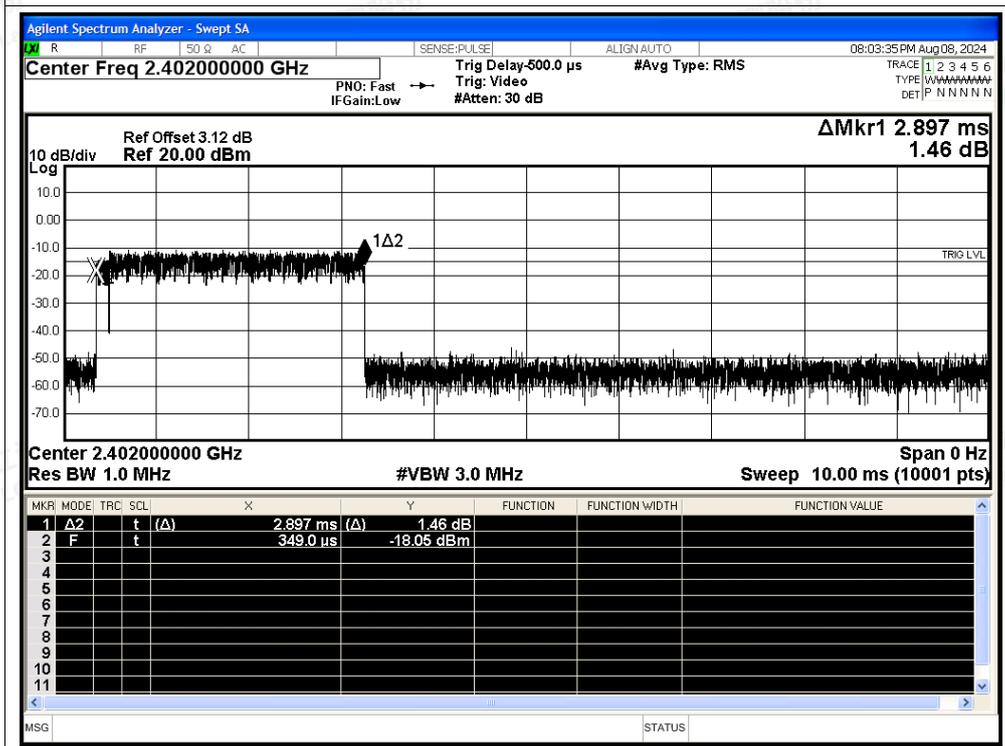


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

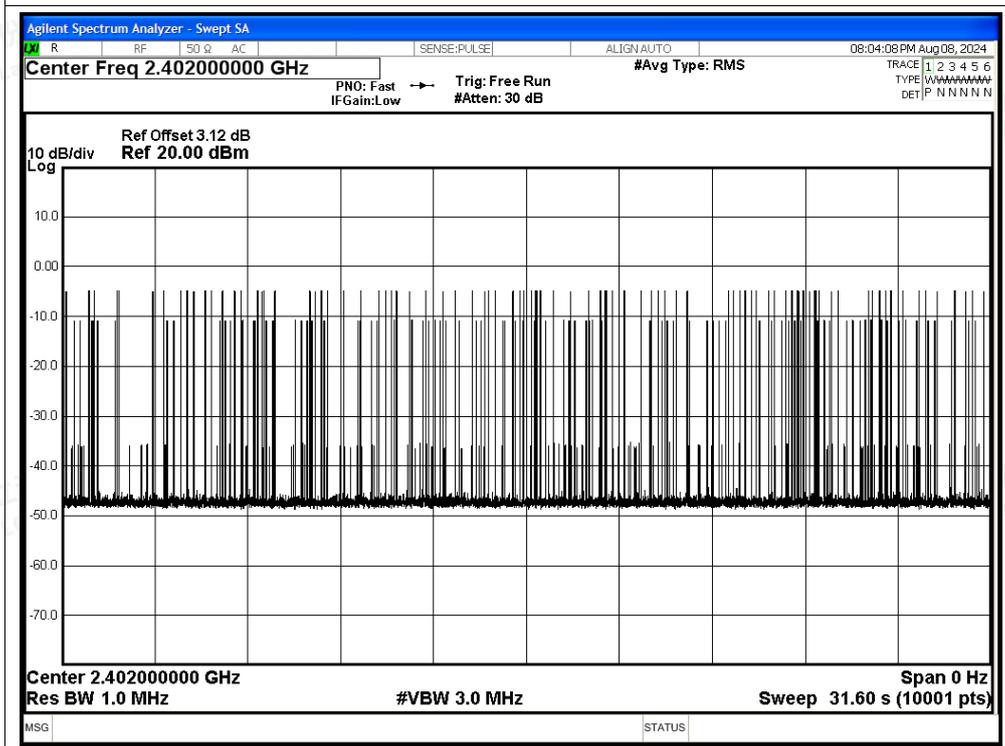


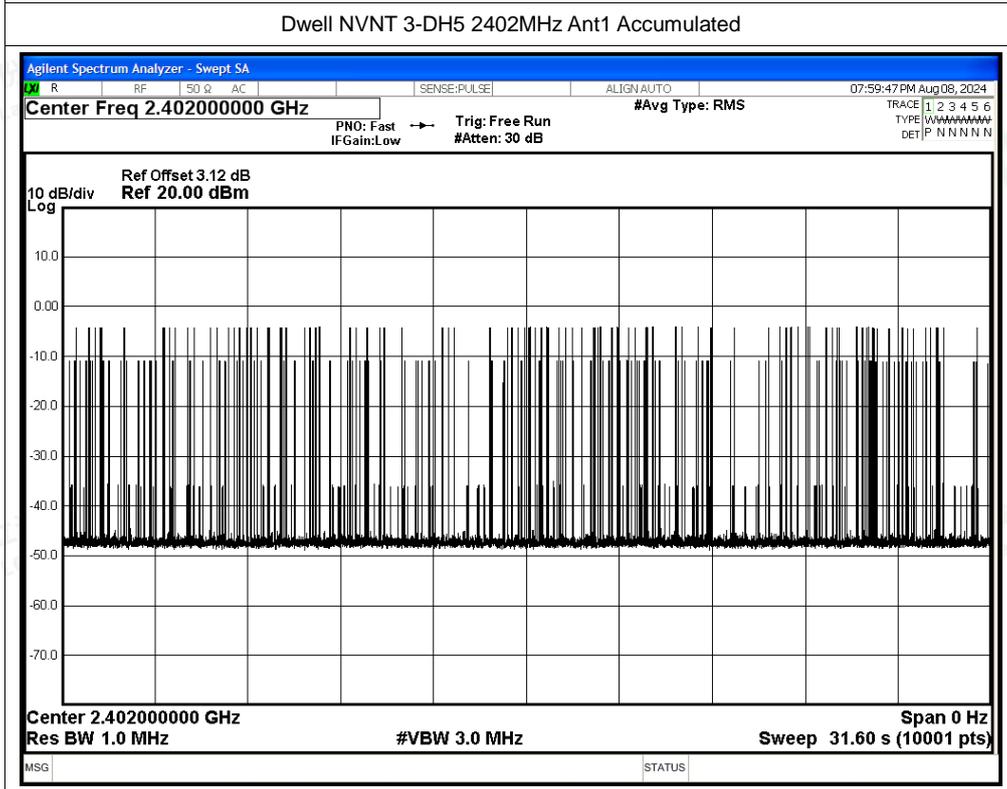
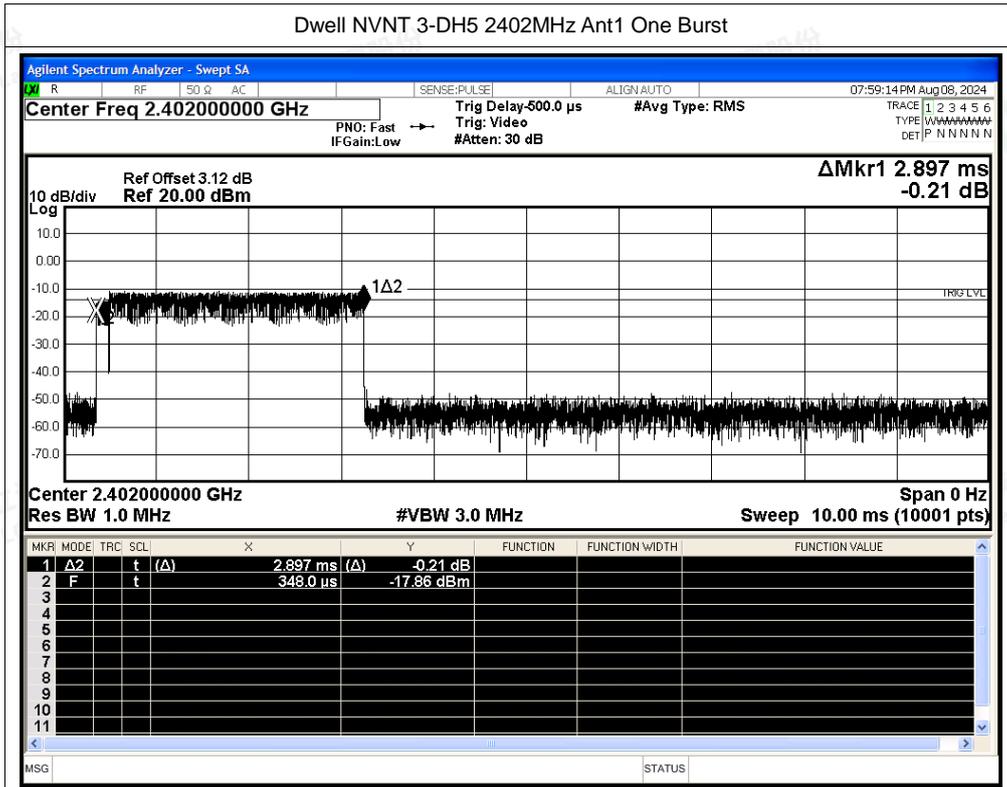


Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated







A.5 Number of Hopping Channel

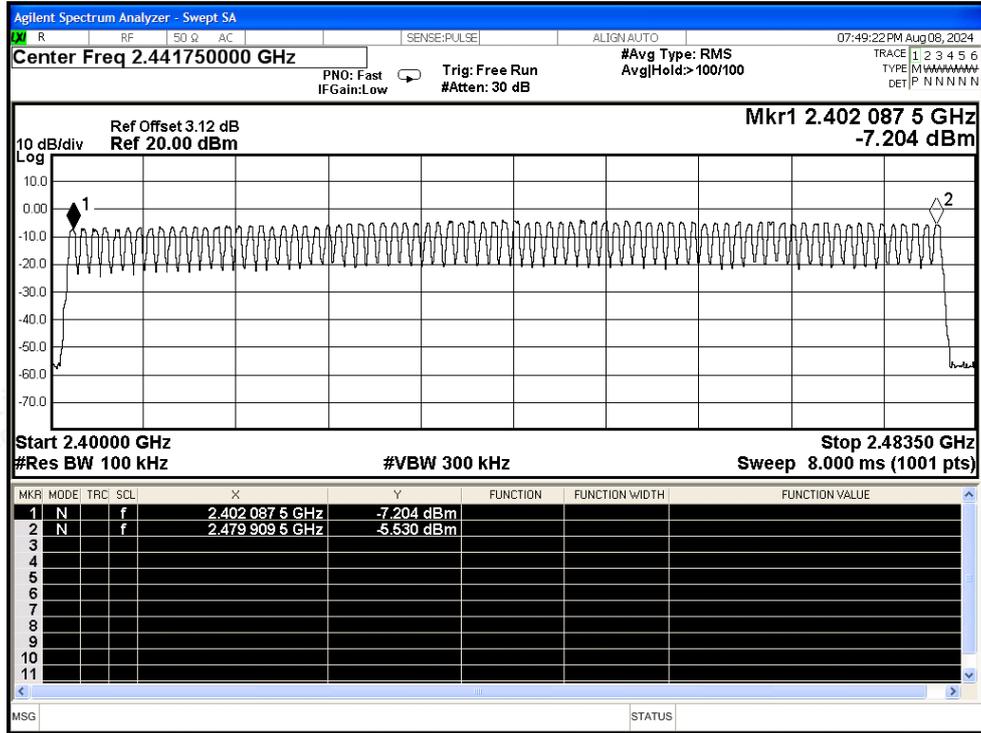
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



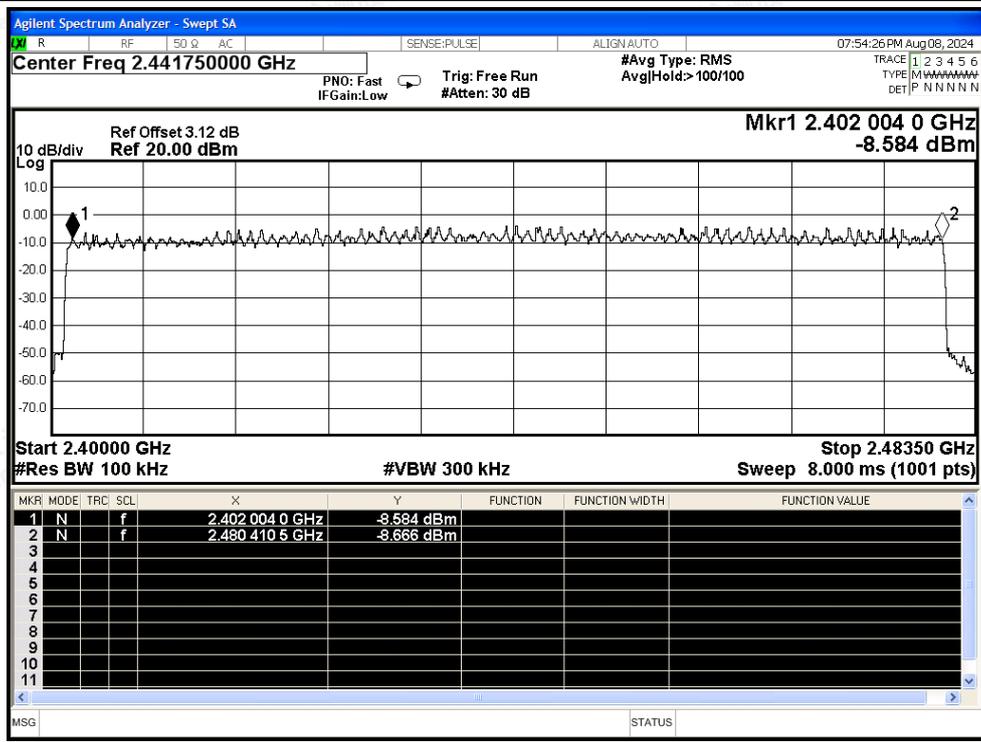


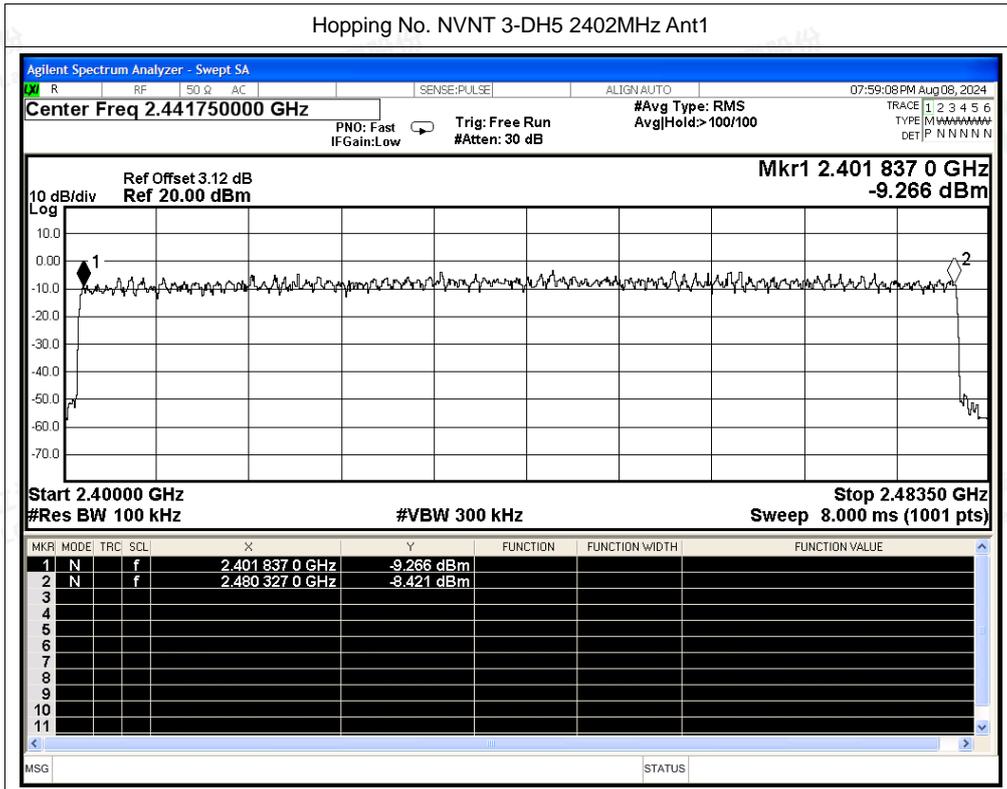
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

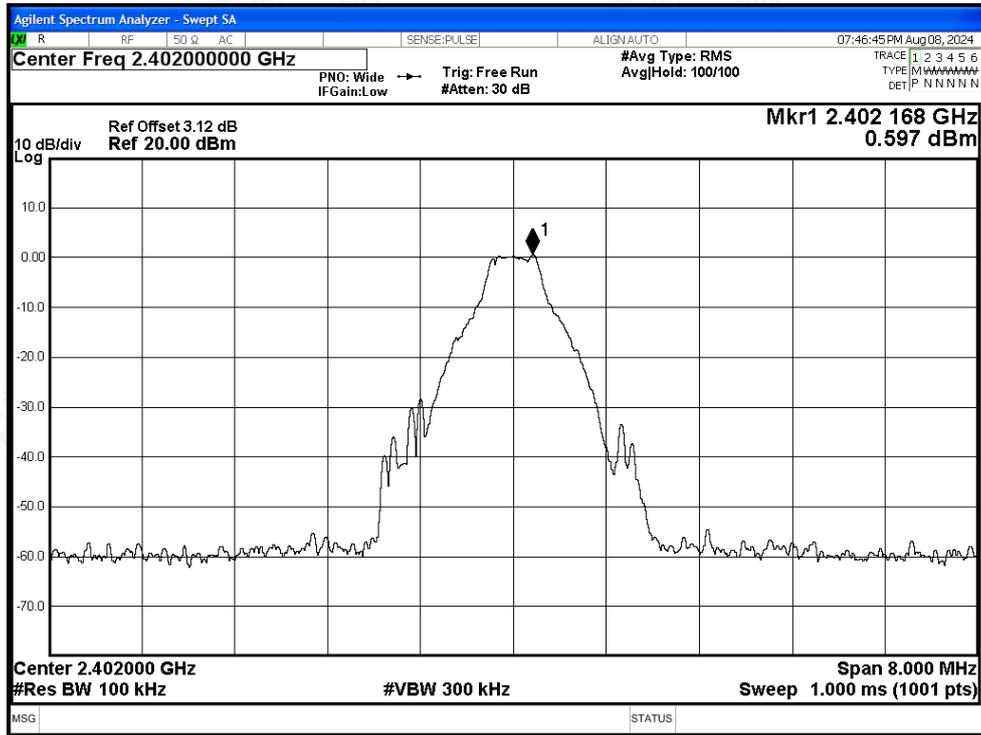
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.37	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.34	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.8	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.29	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-49.8	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.08	-20	Pass



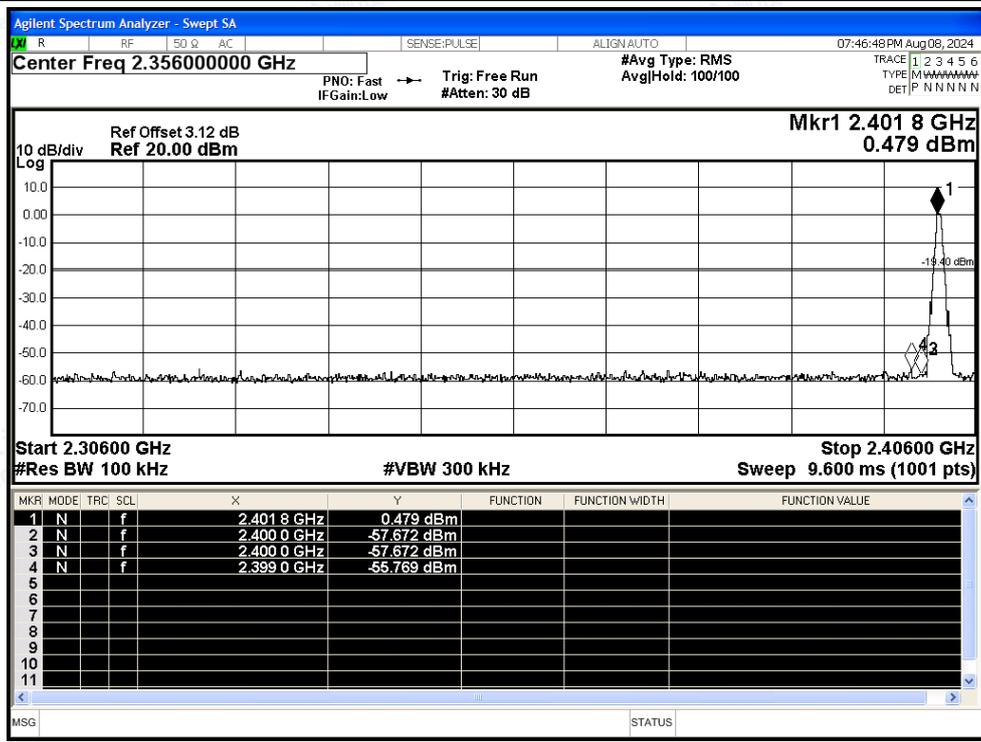


Test Graphs

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

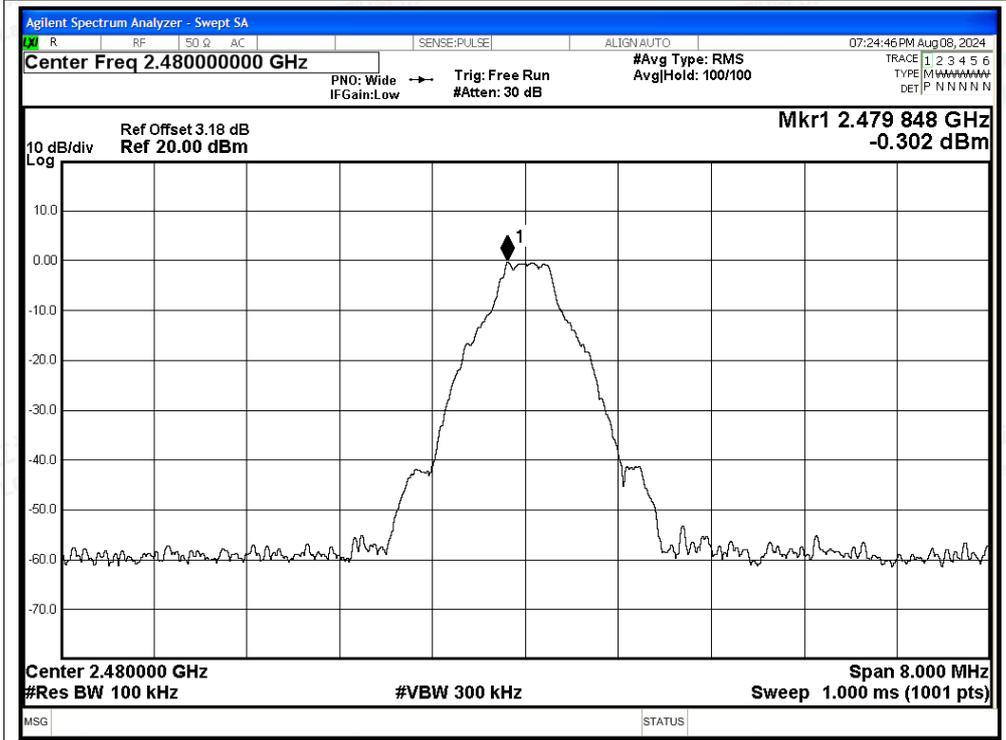


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

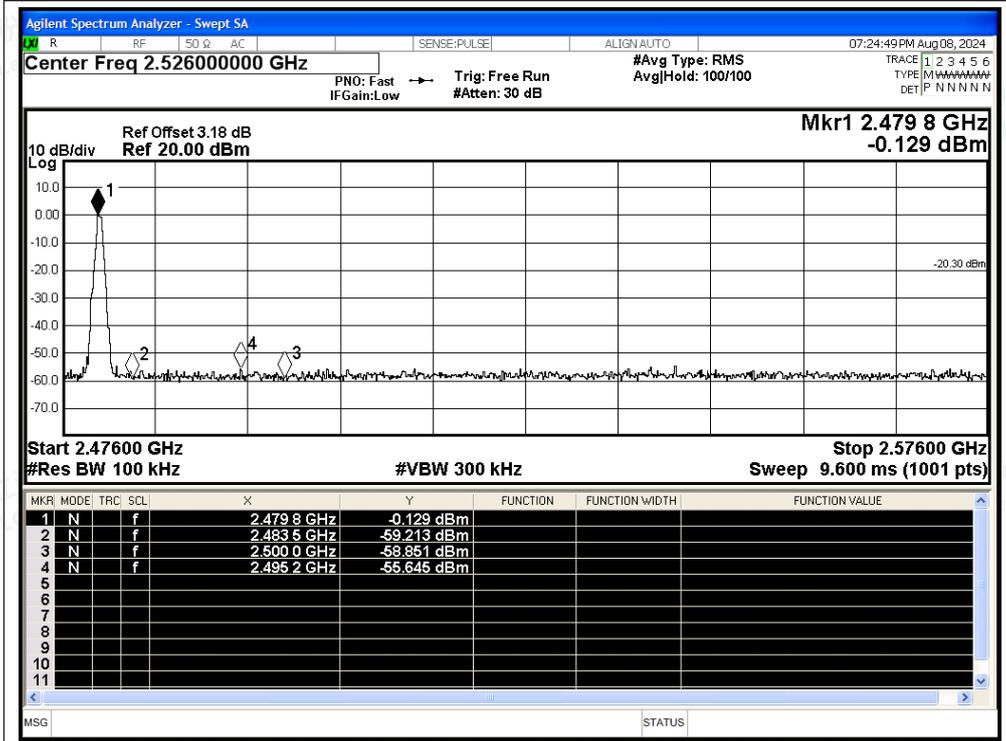




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

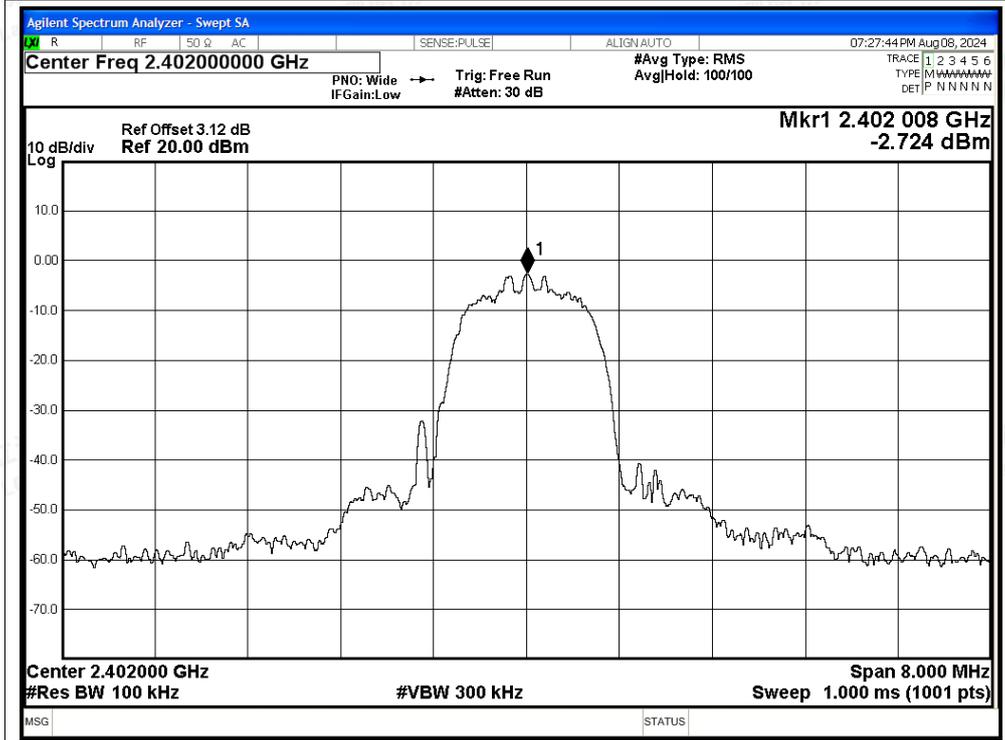


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

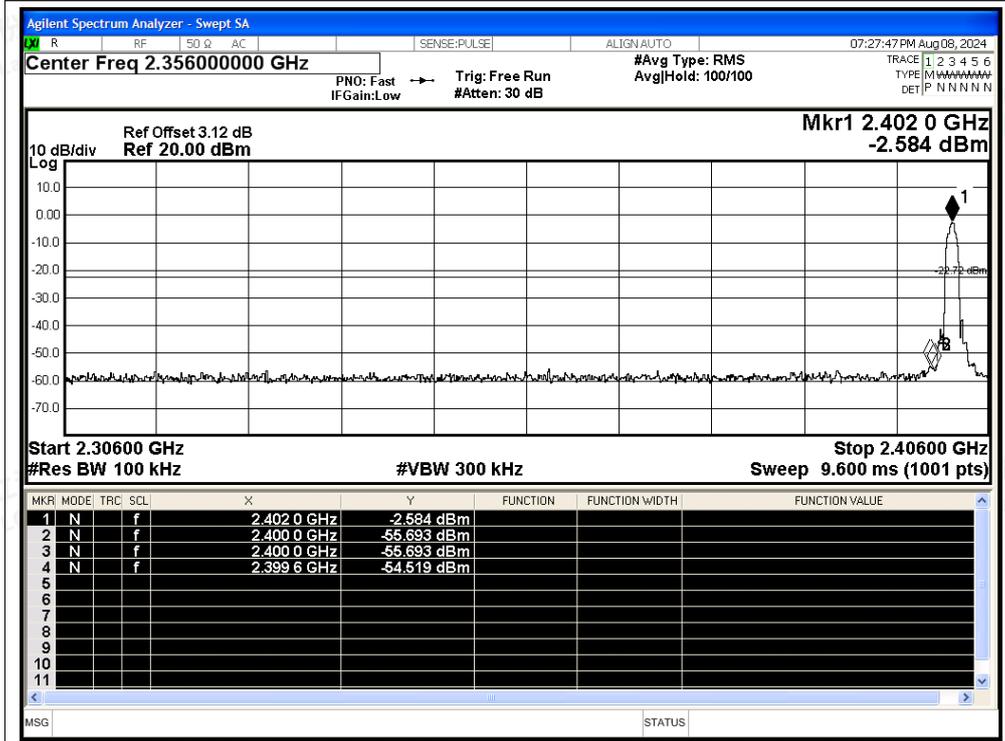




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

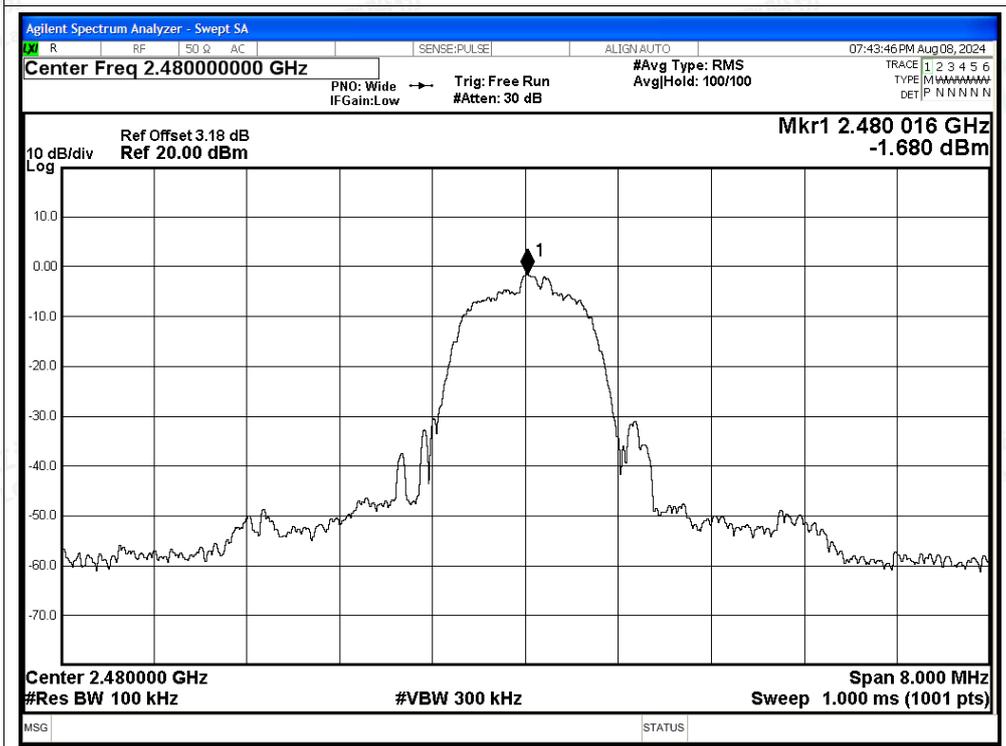


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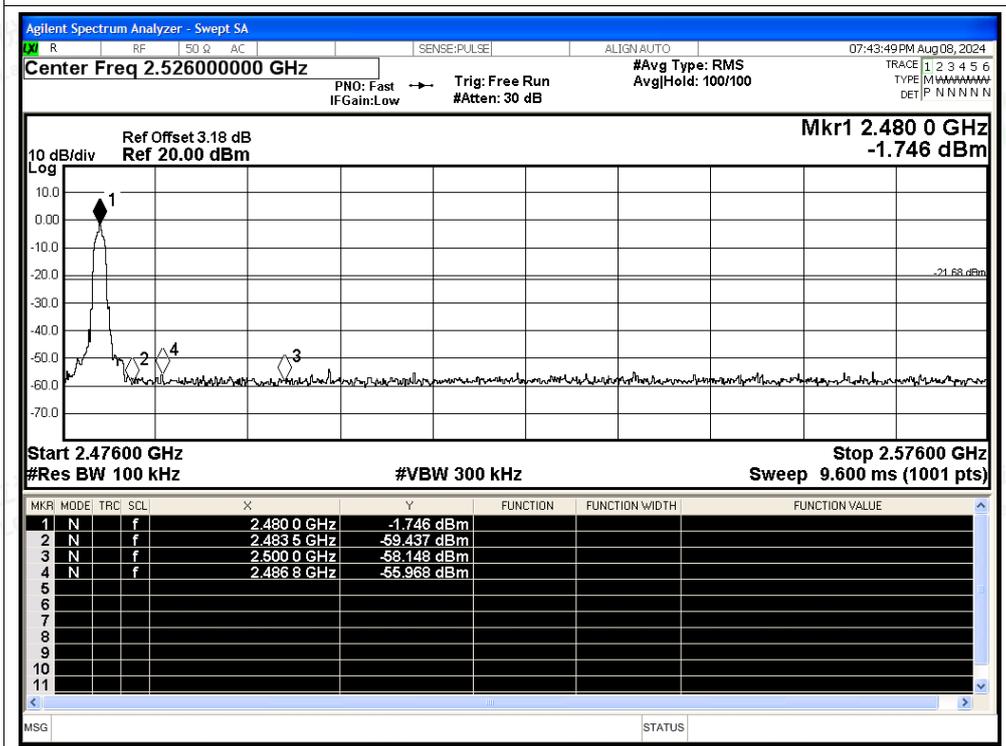




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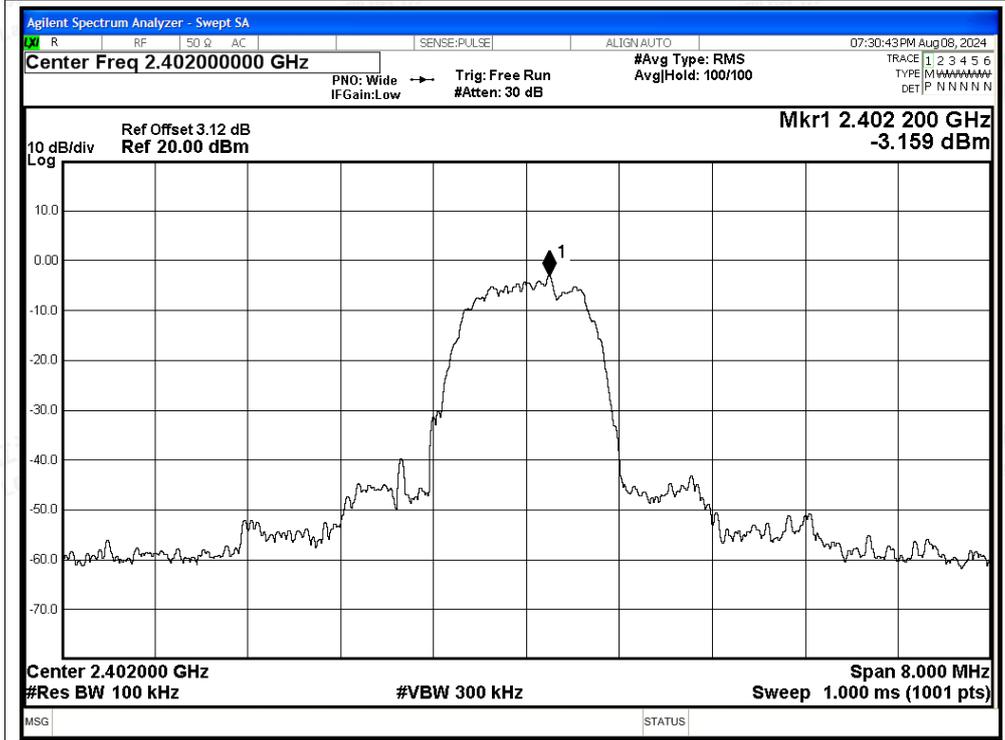


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

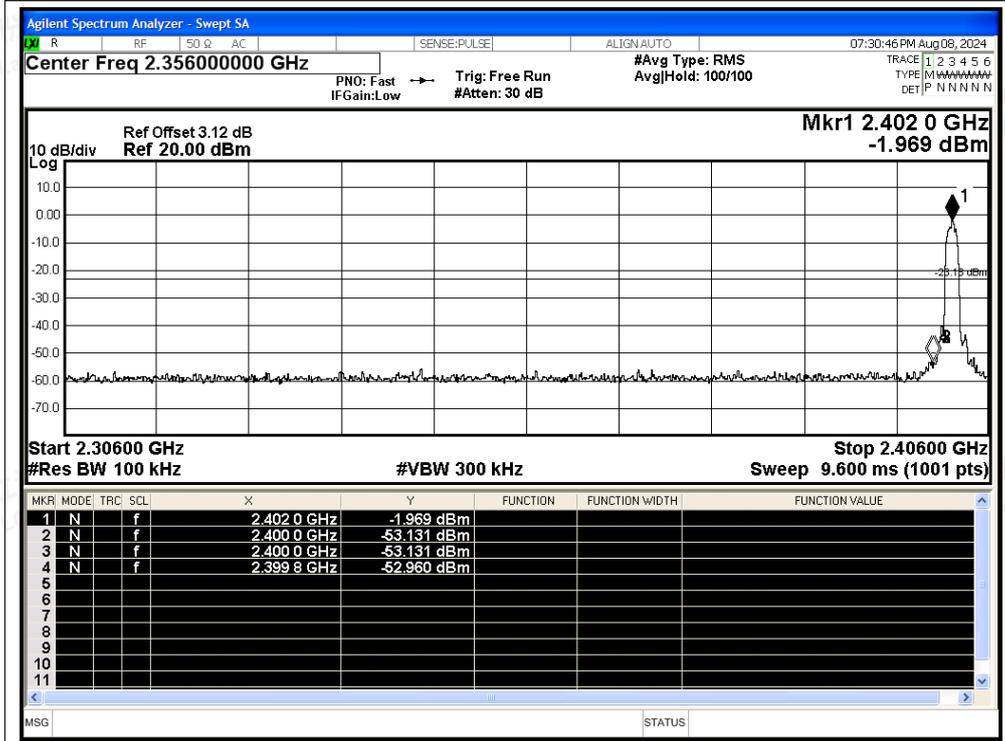




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

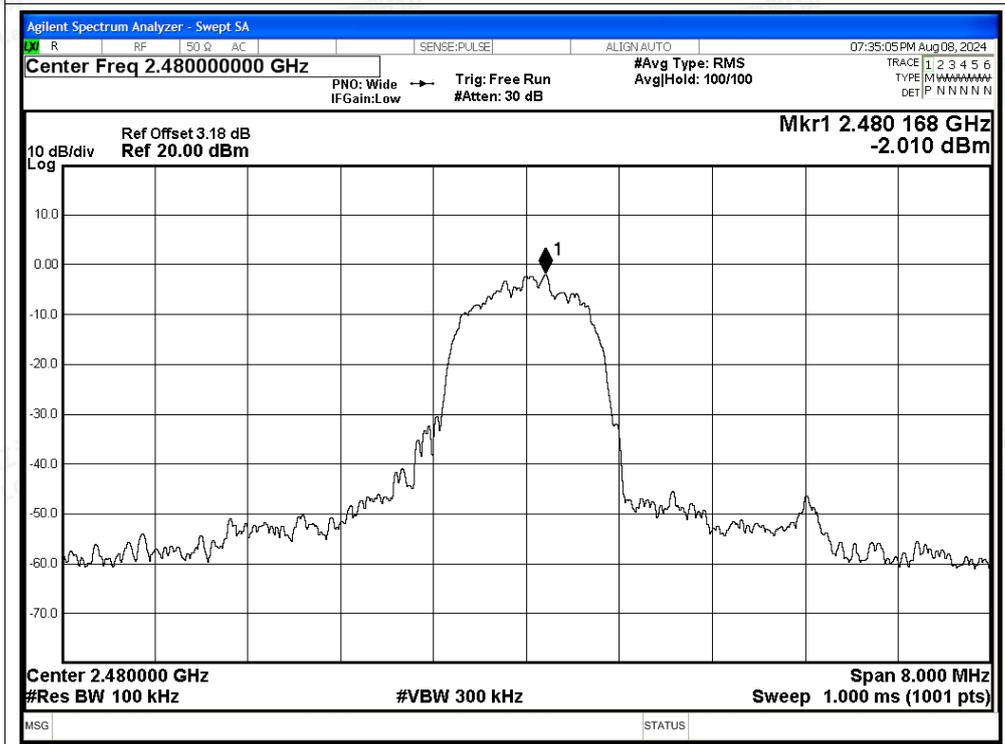


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

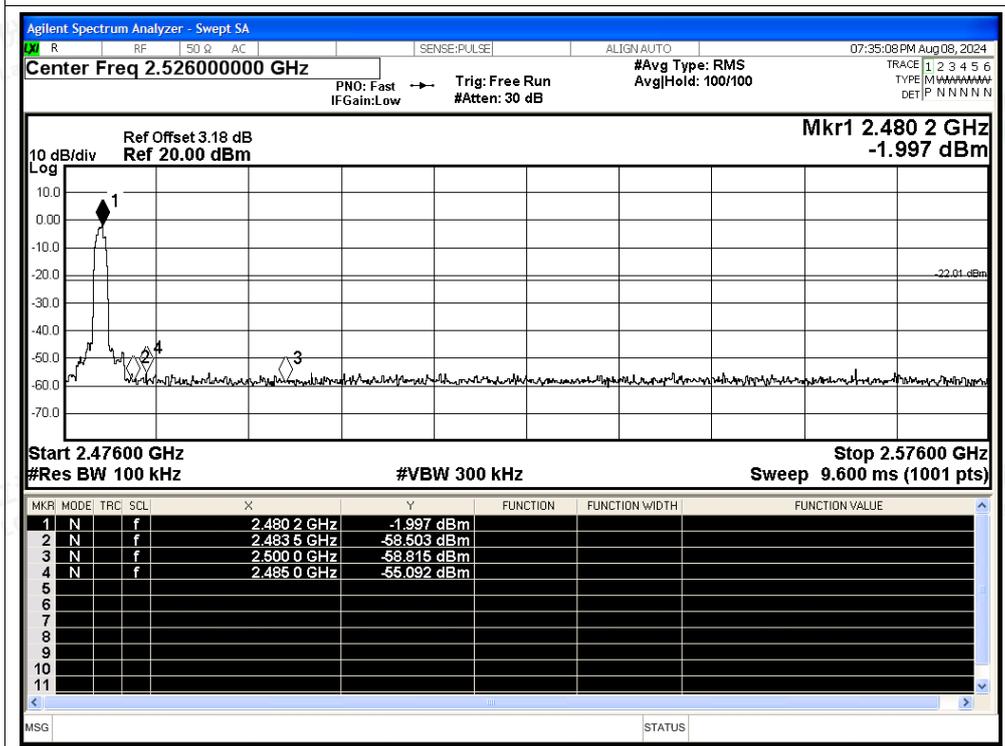




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

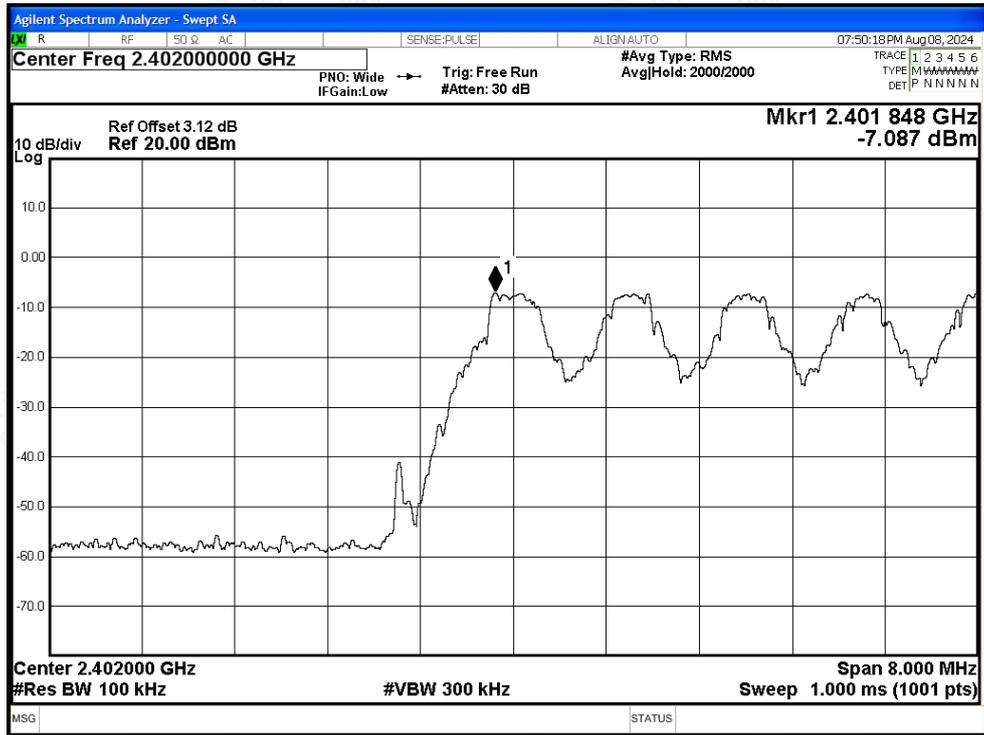
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-48.46	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-50.67	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-48.51	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-49.45	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-48.6	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-50.13	-20	Pass



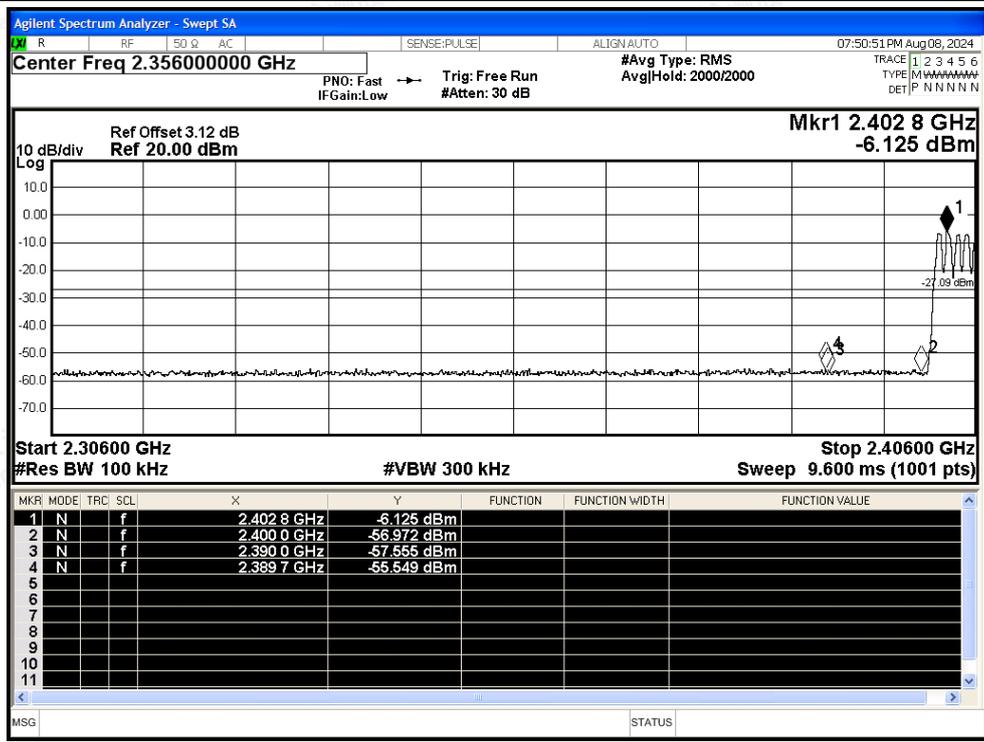


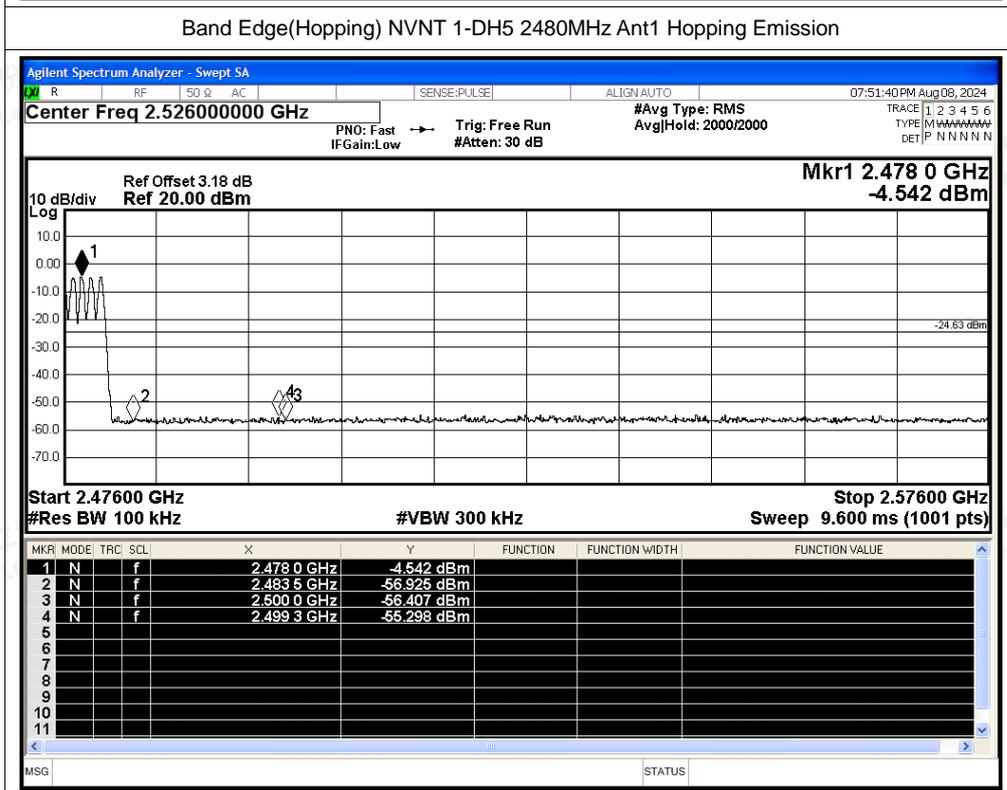
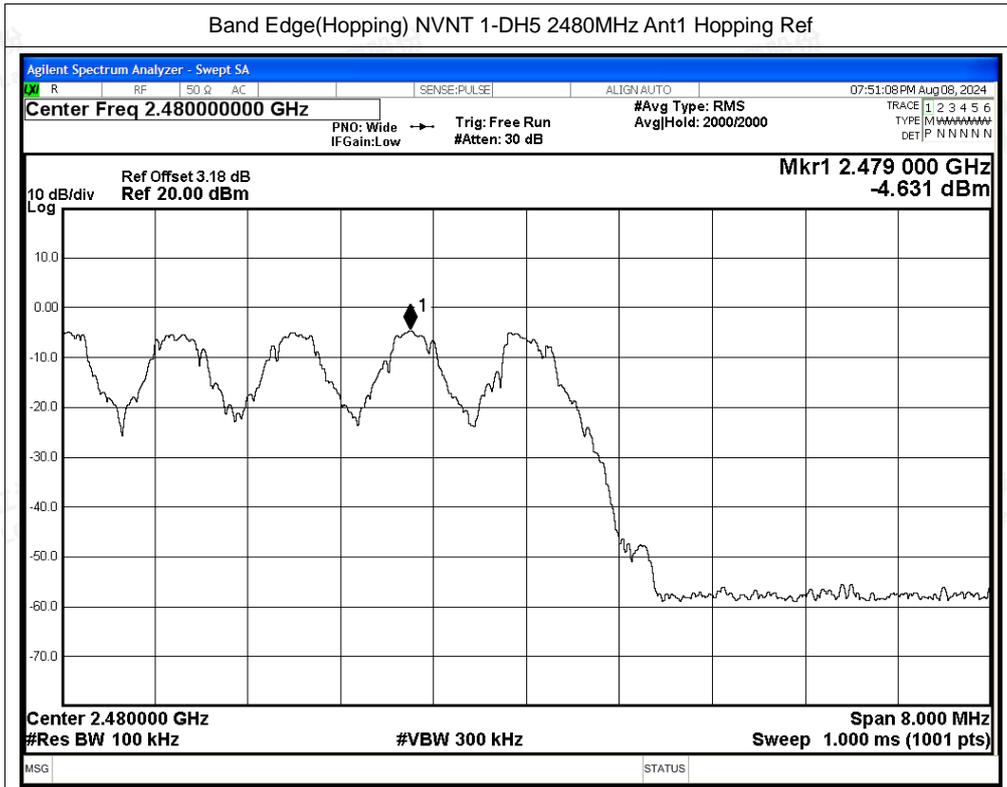
Test Graphs

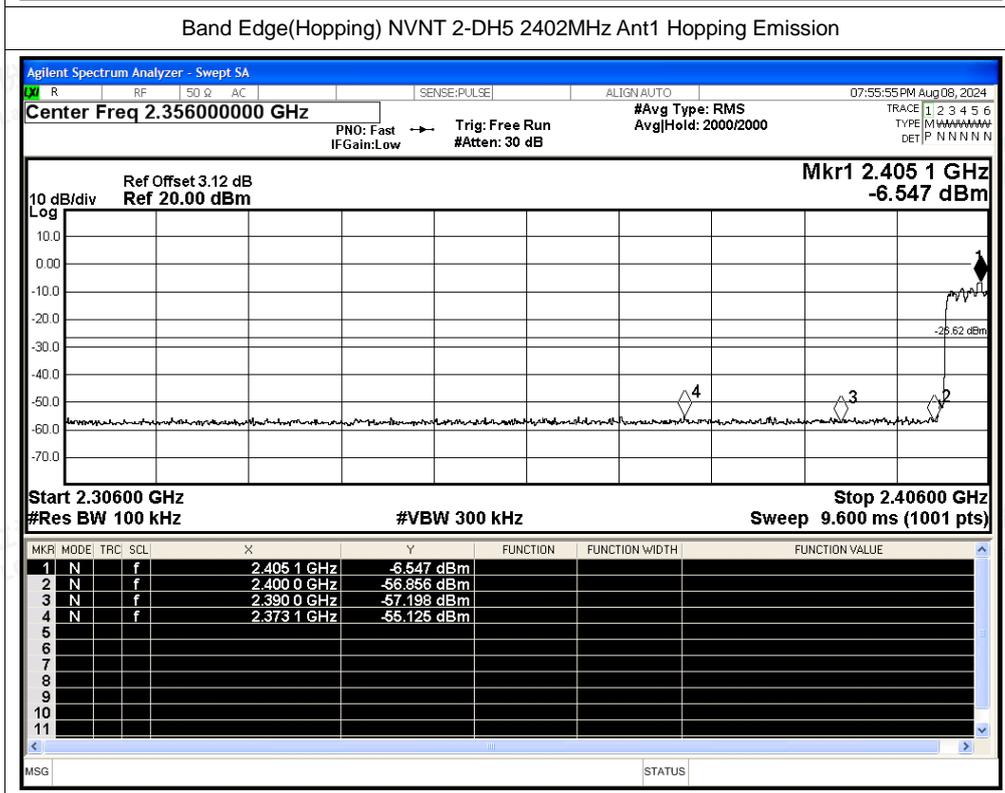
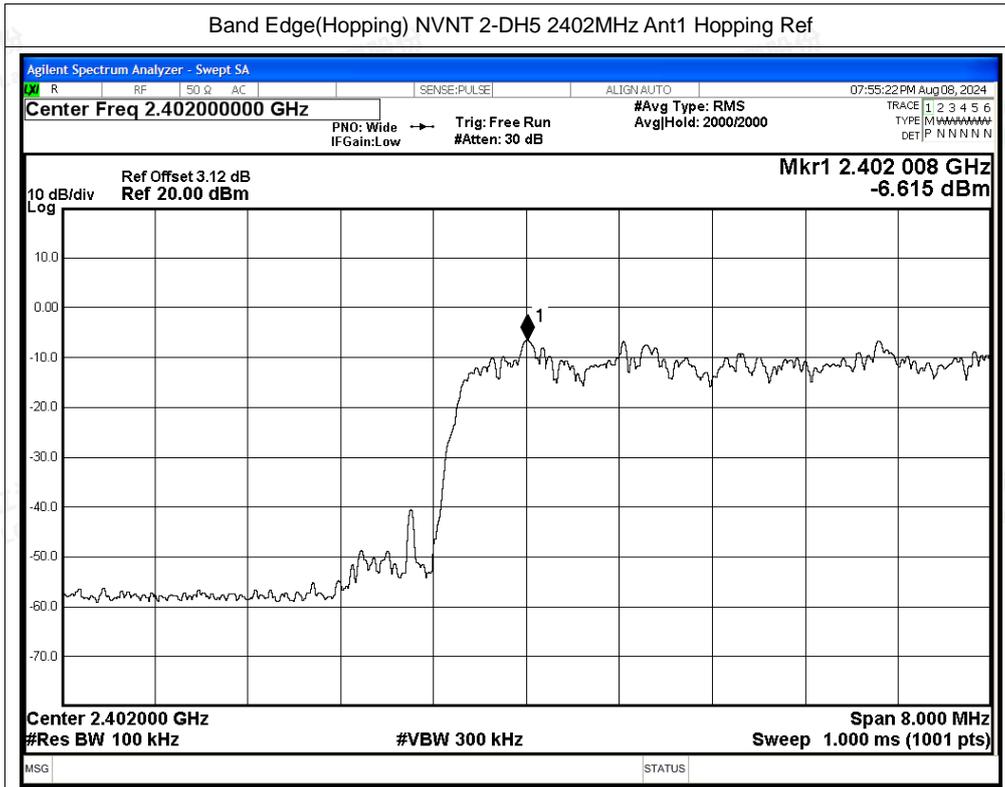
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

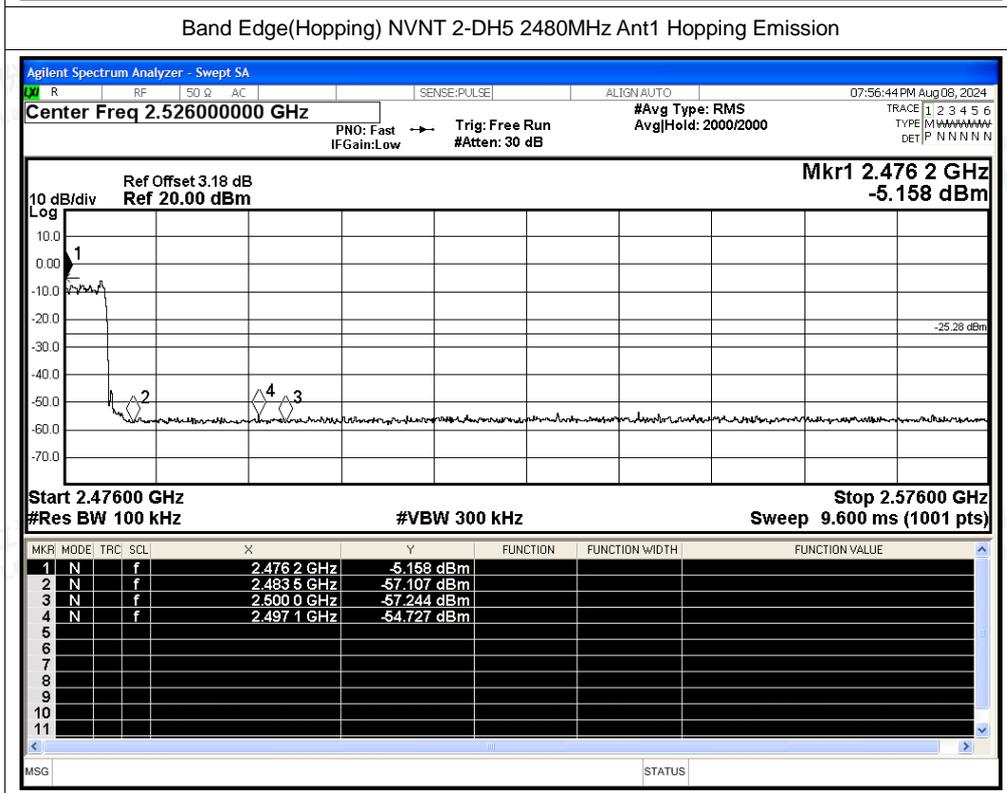
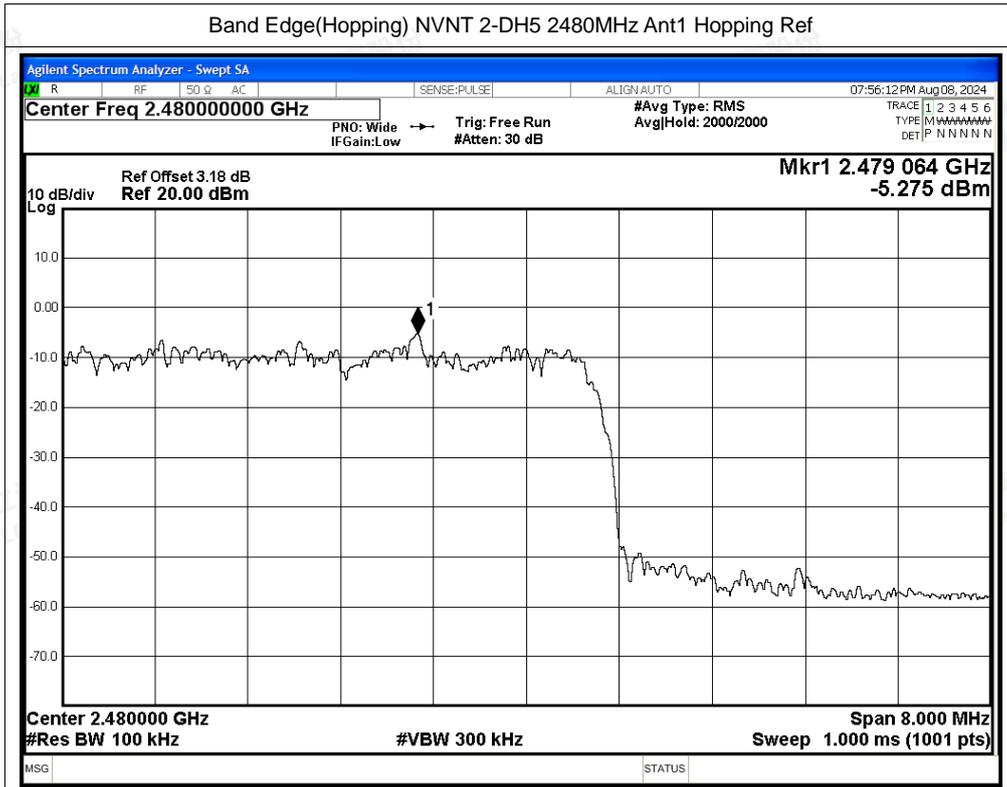


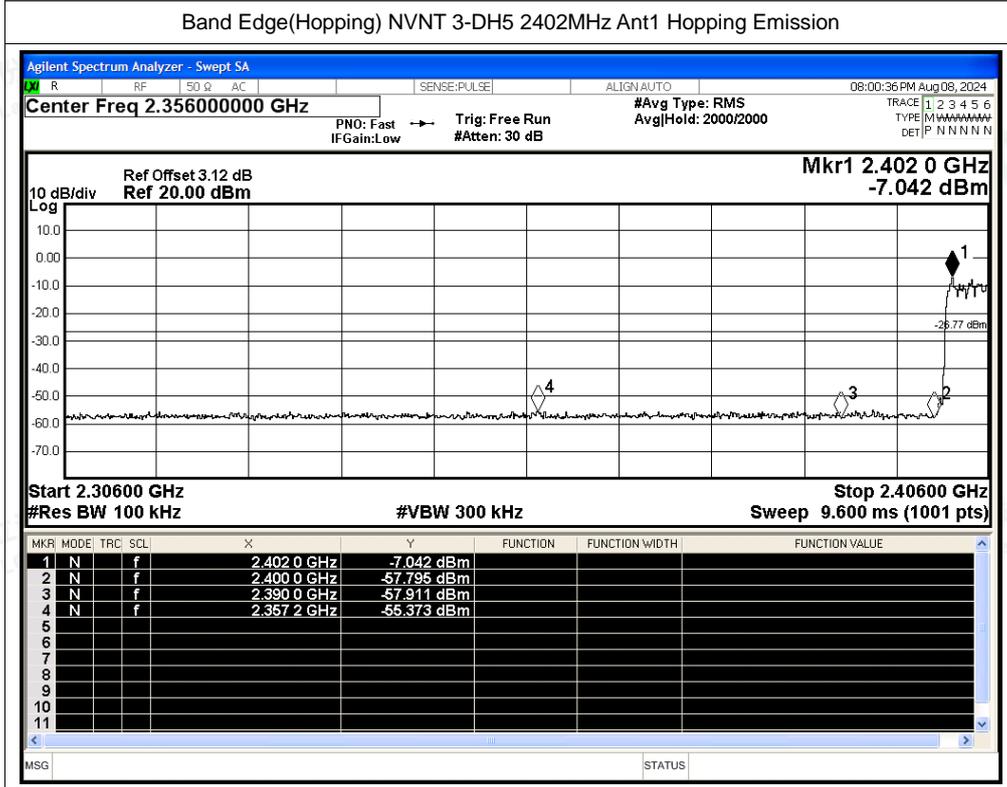
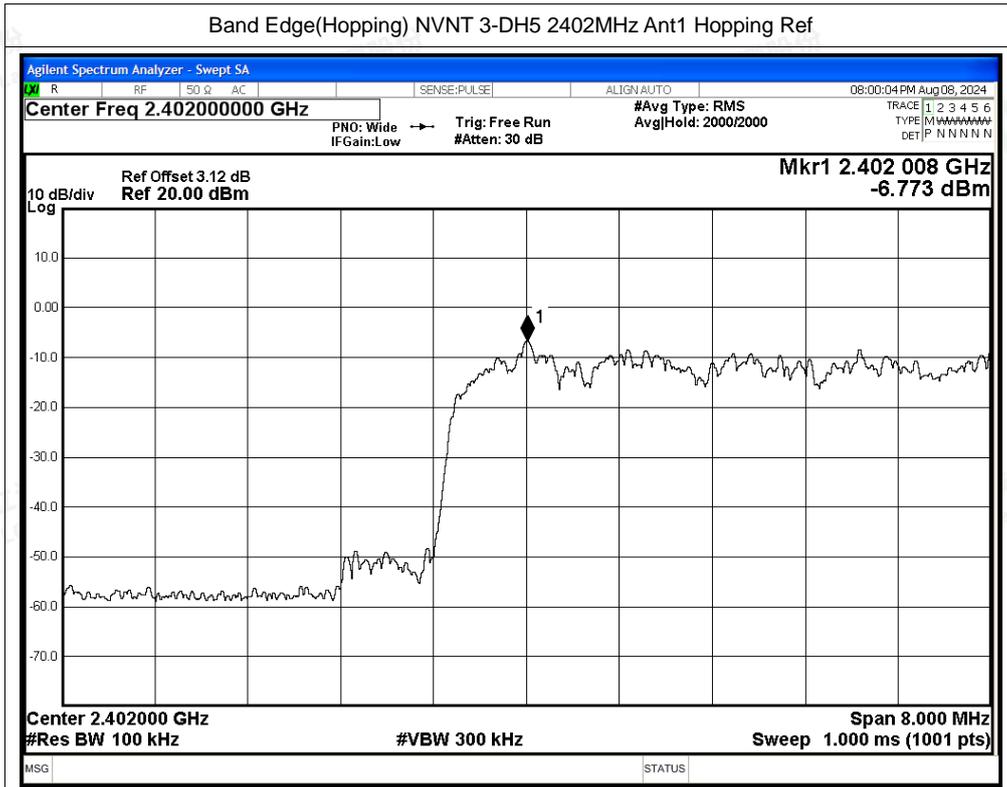
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

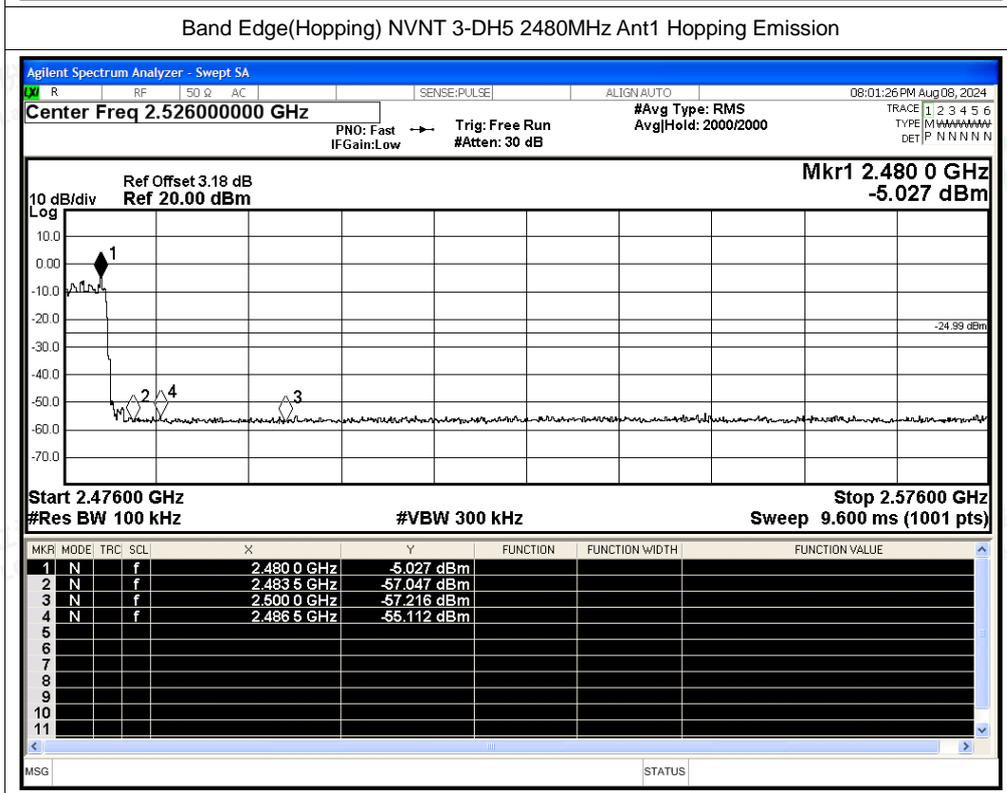
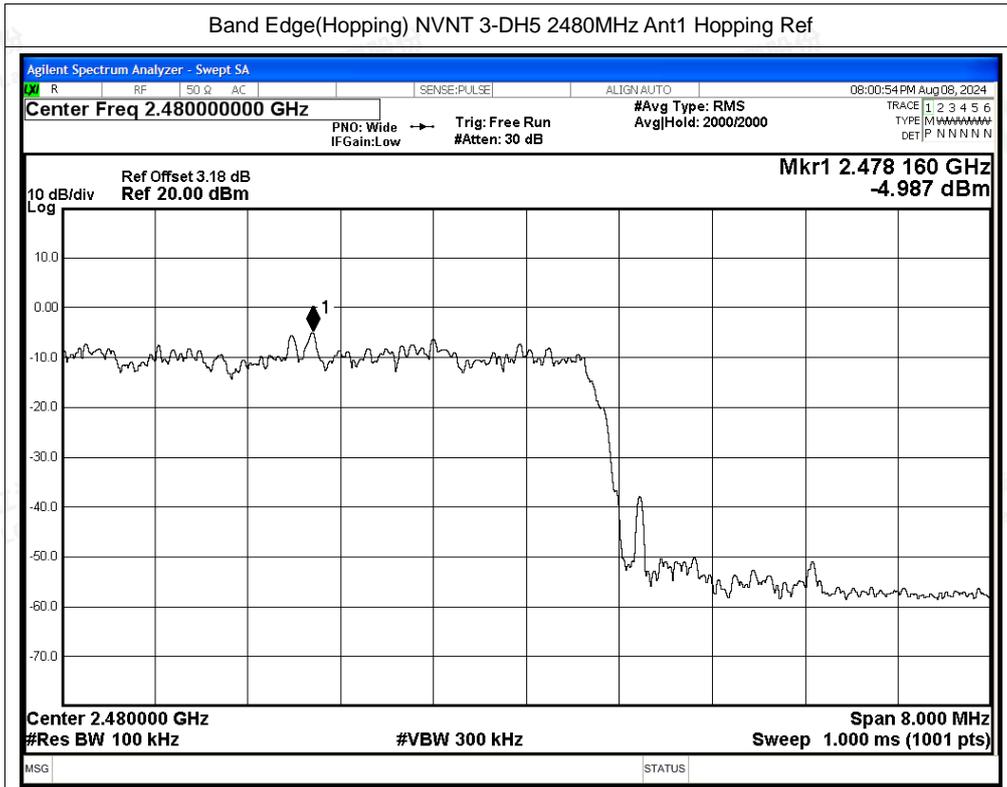














A.7 Conducted RF Spurious Emission

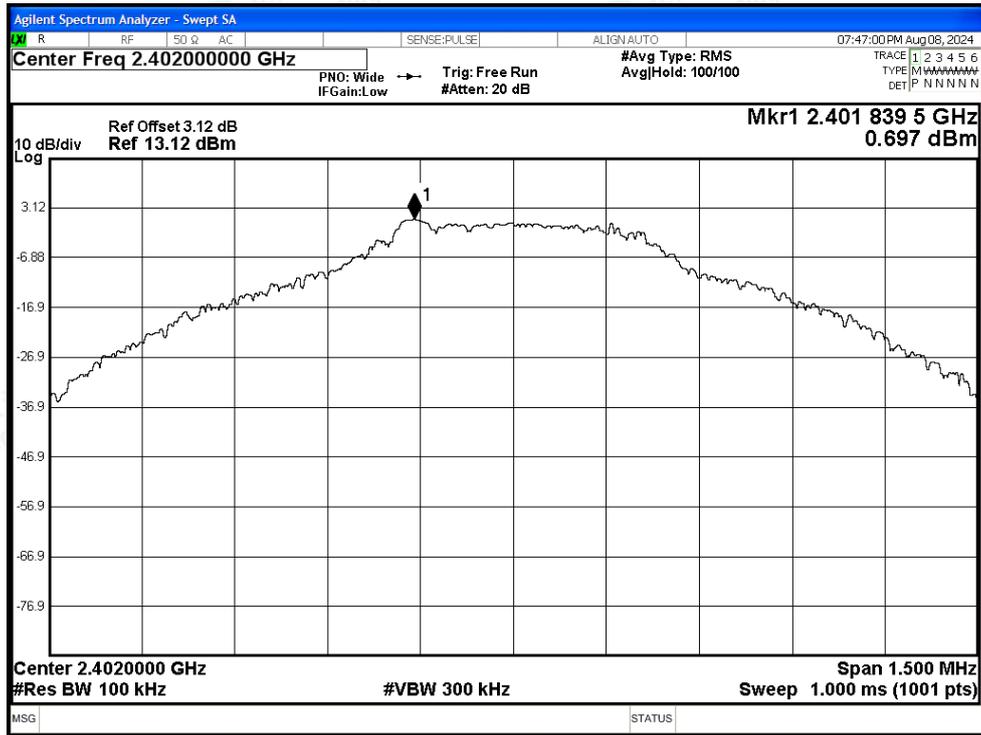
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.45	-20	Pass
NVNT	1-DH5	2441	Ant1	-47.46	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.04	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.17	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.11	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.82	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.87	-20	Pass
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NVNT	3-DH5	2480	Ant1	-51.92	-20	Pass



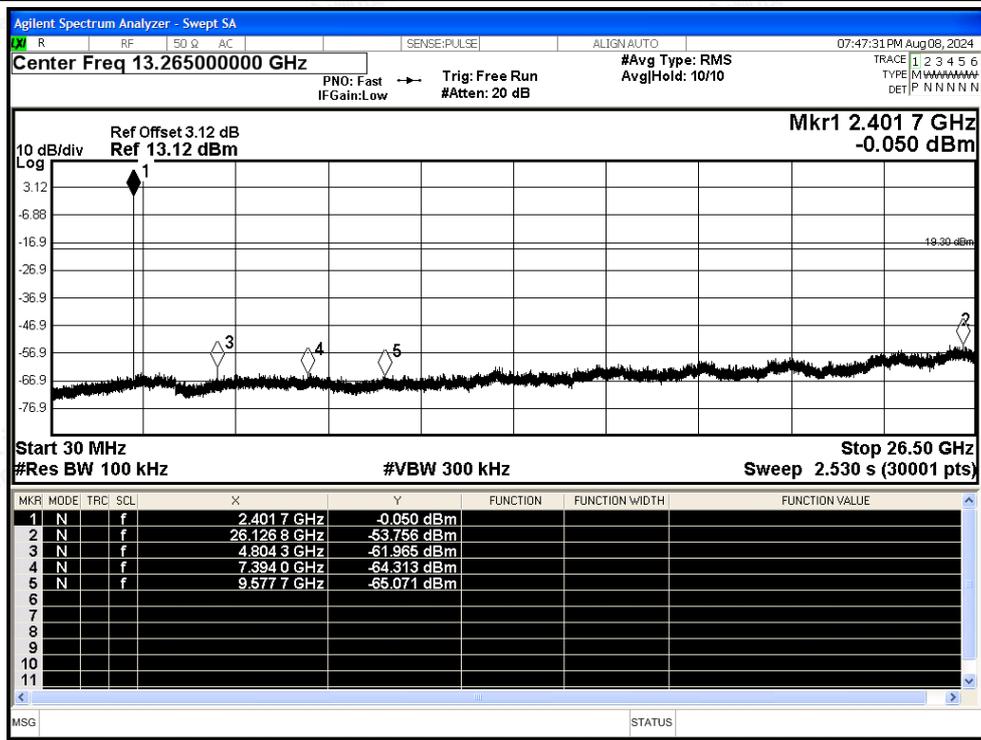


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

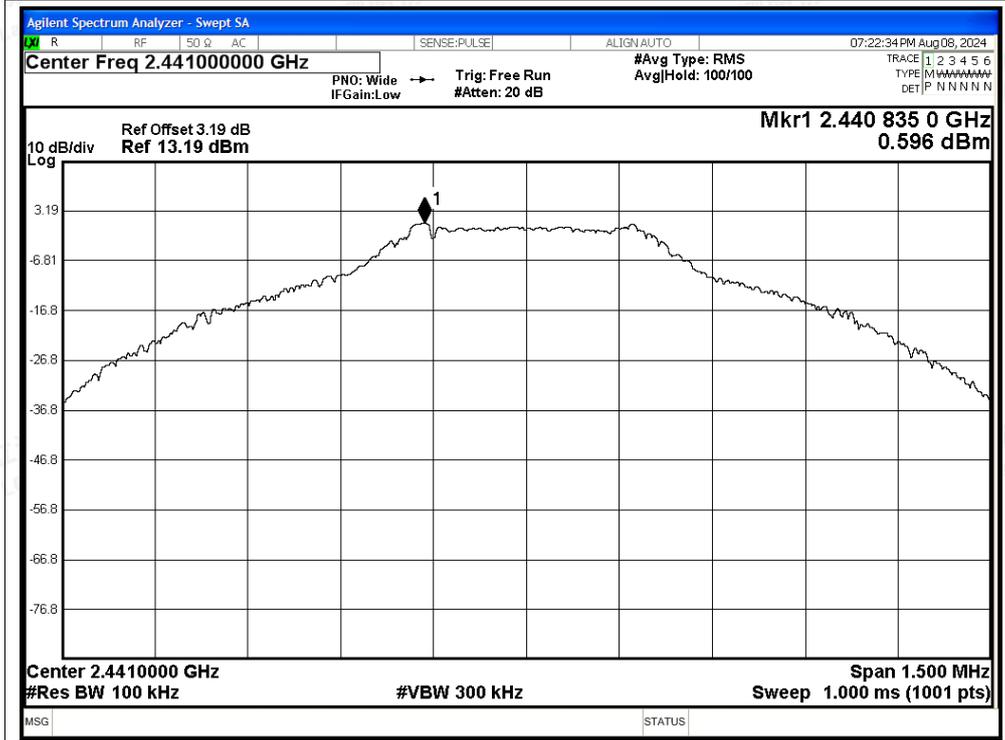


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

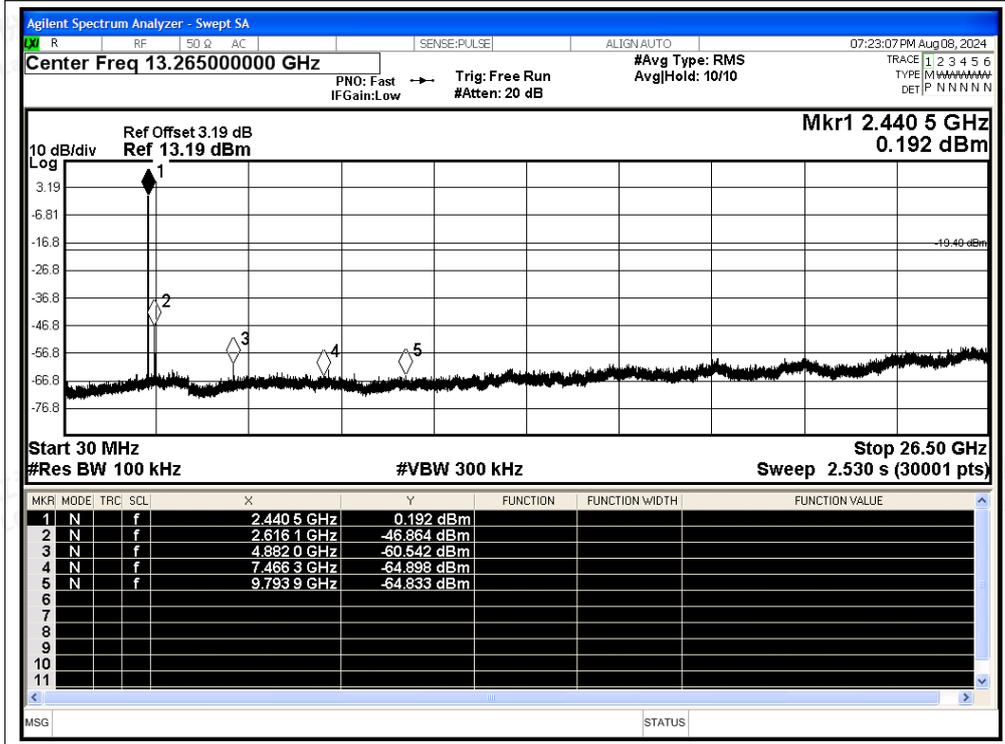




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

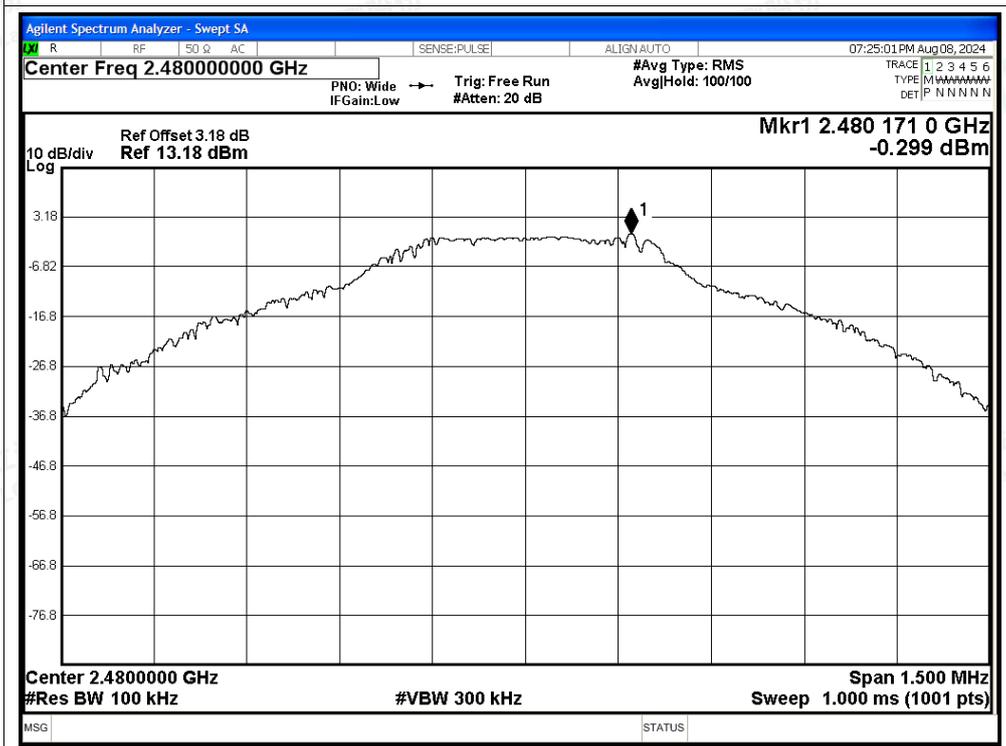


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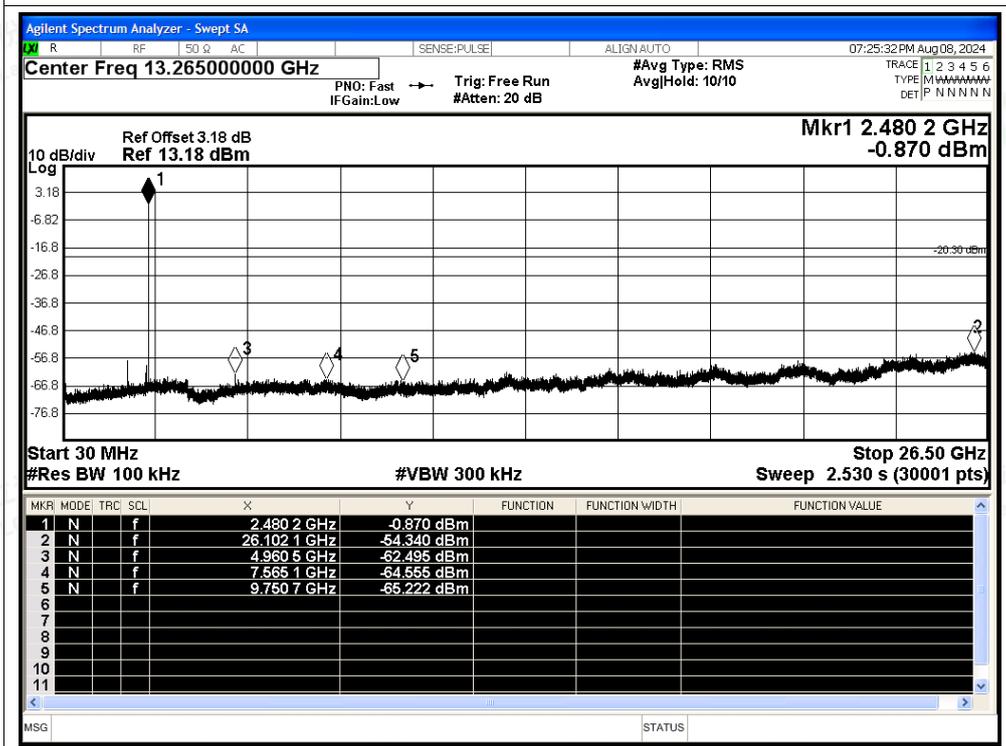




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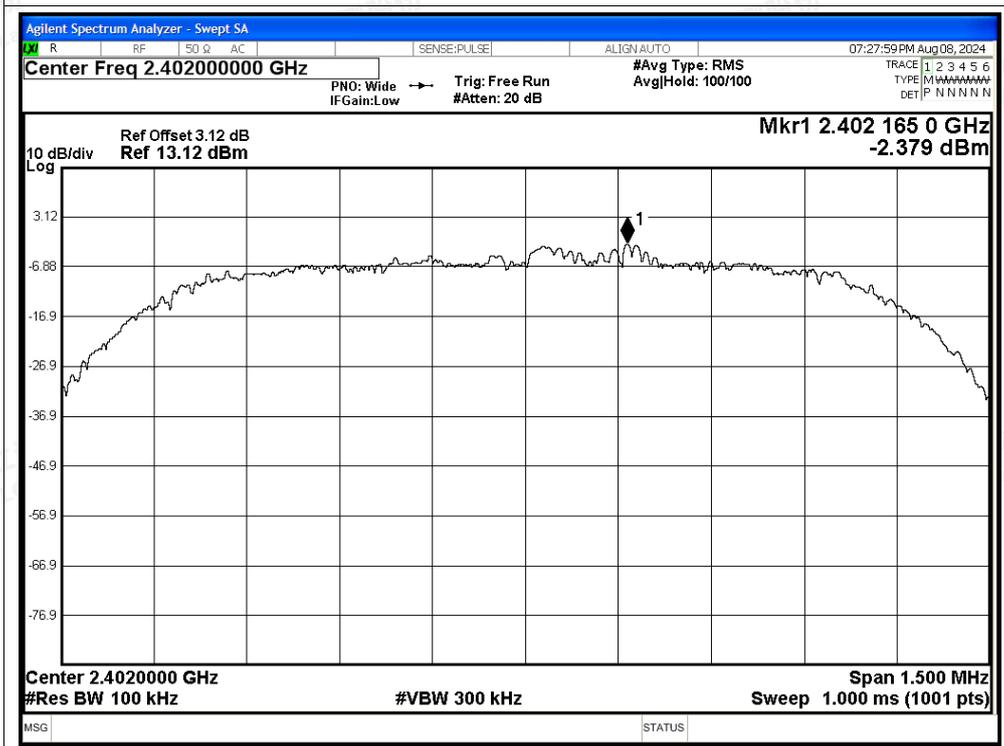


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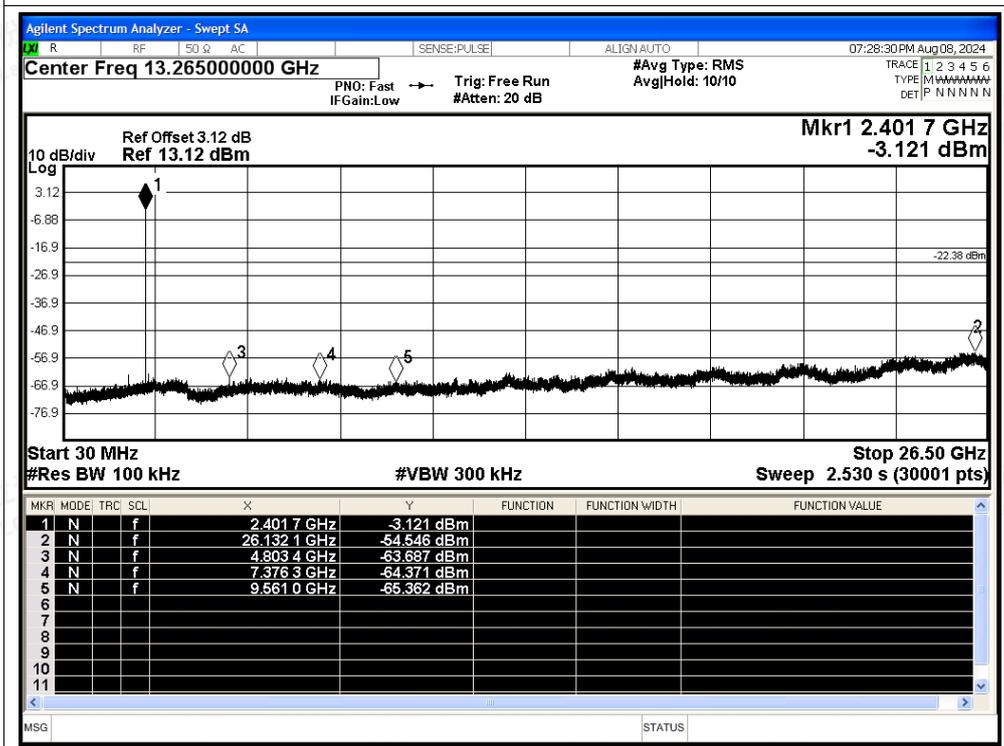




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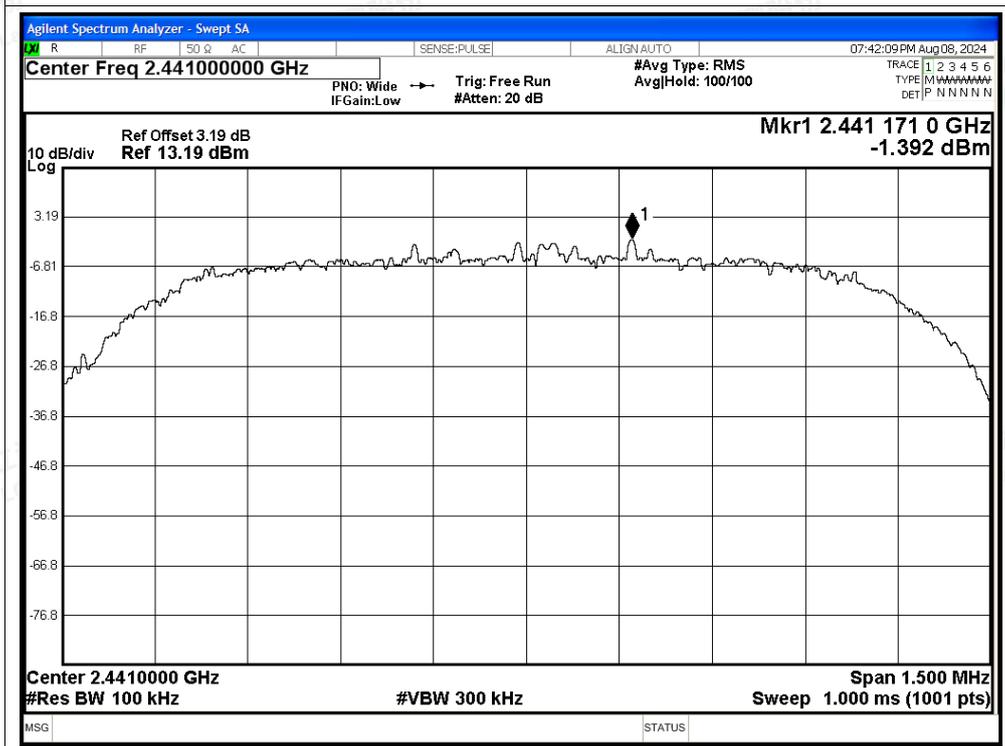


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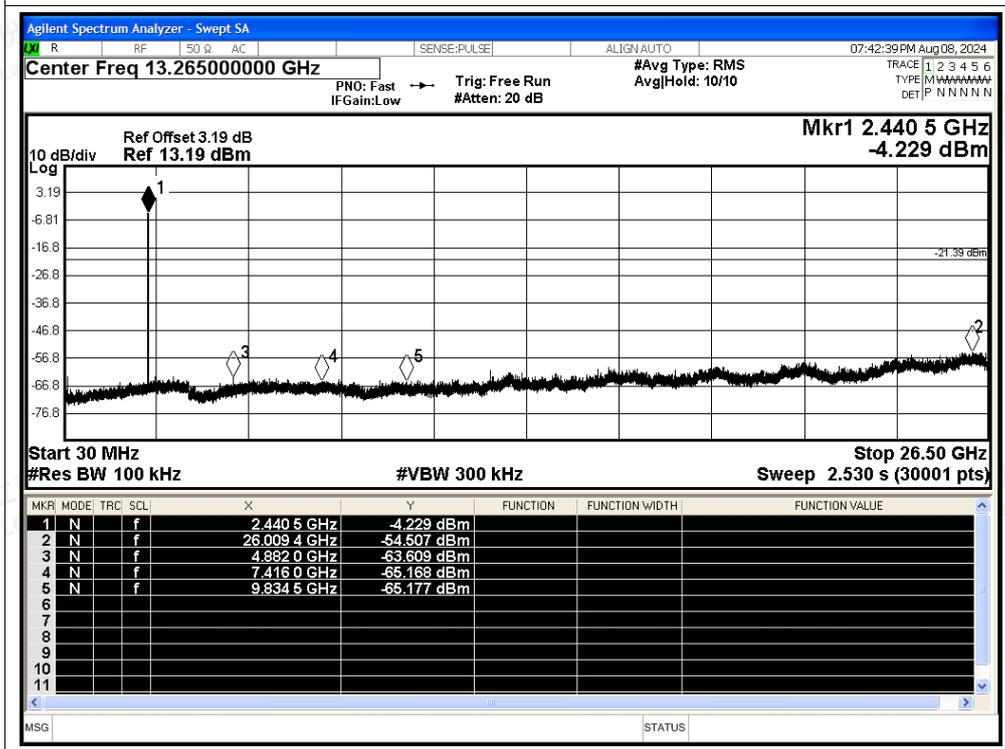




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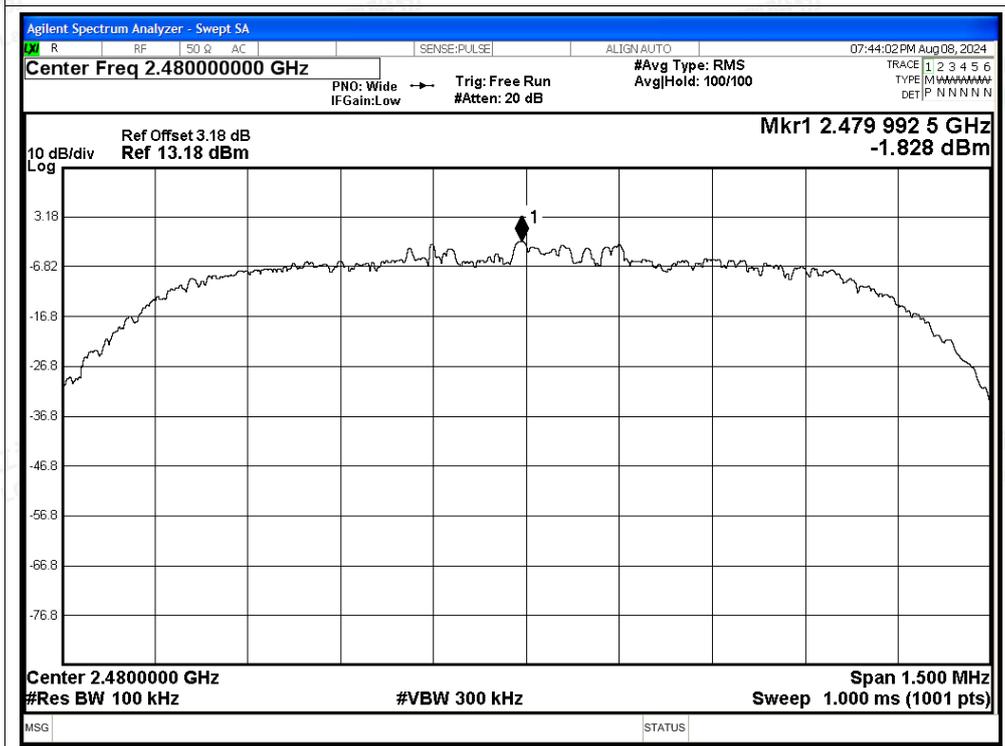


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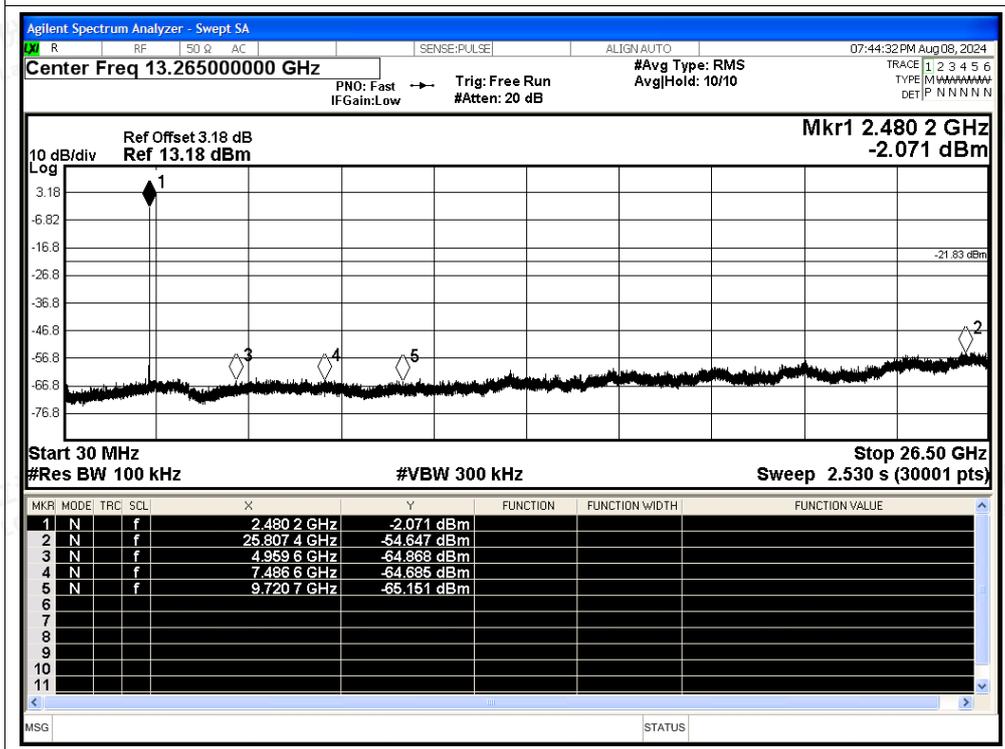




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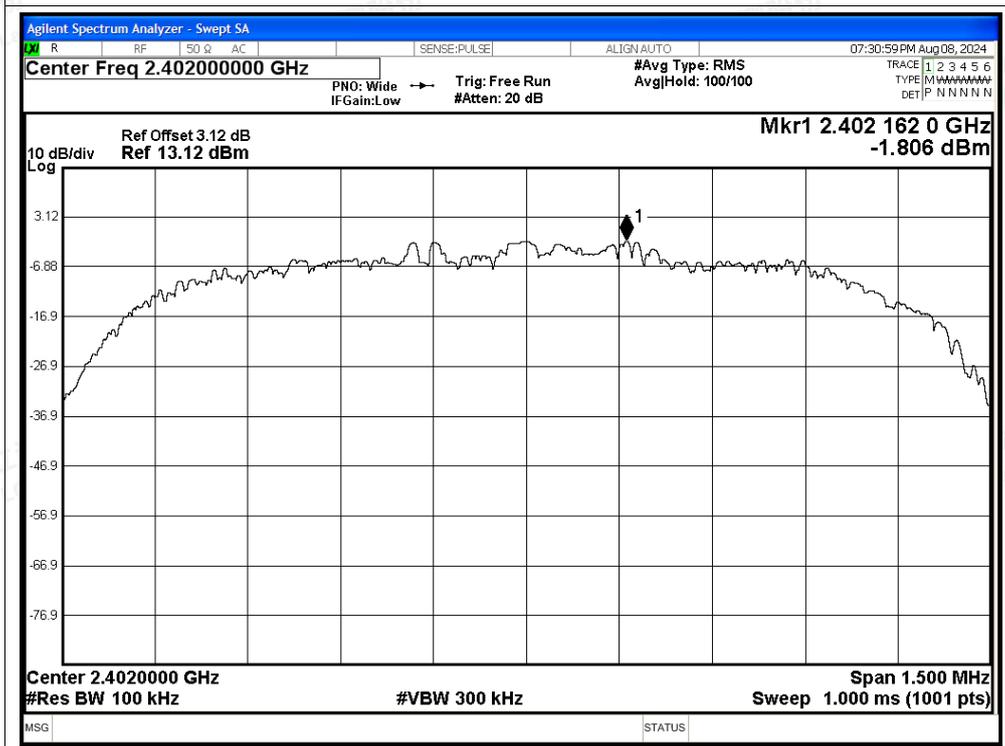


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

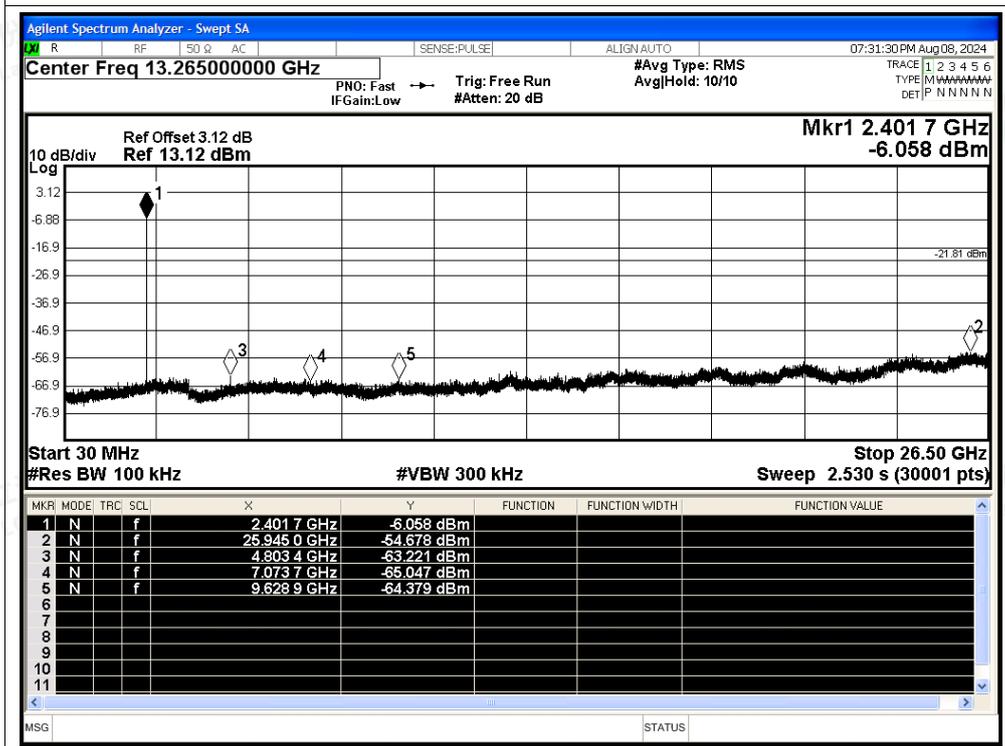




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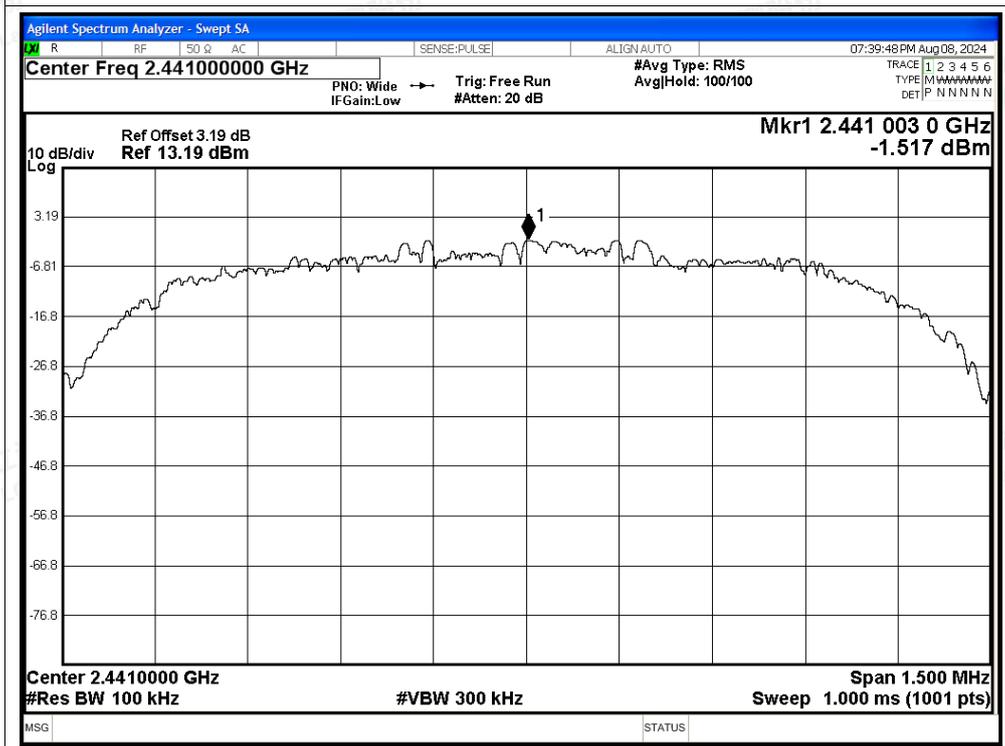


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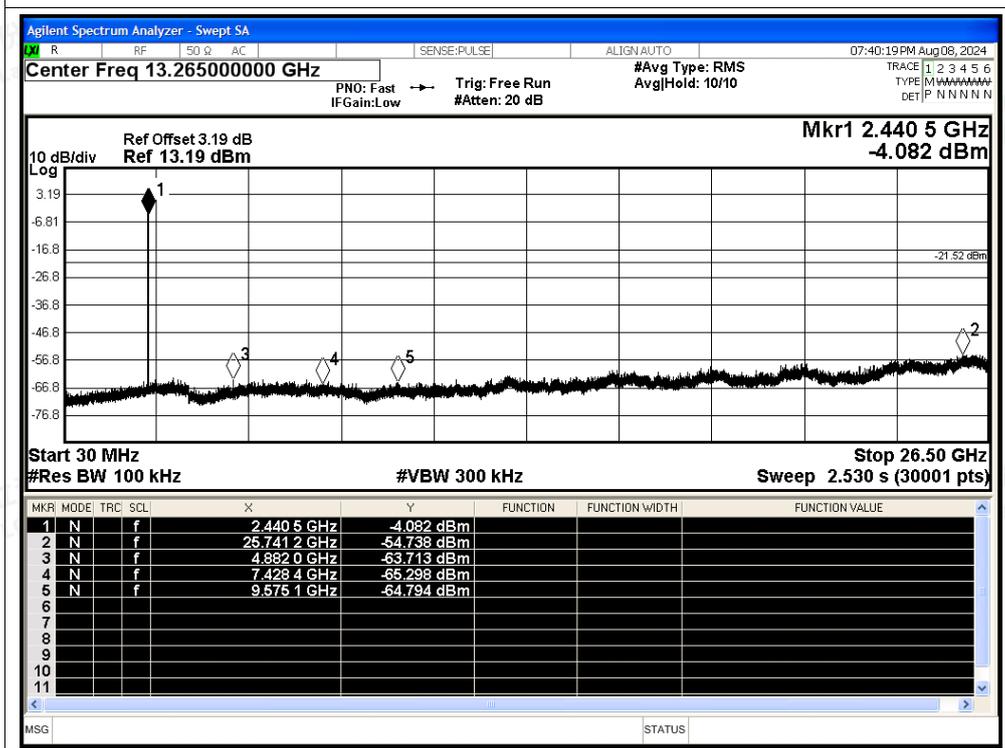




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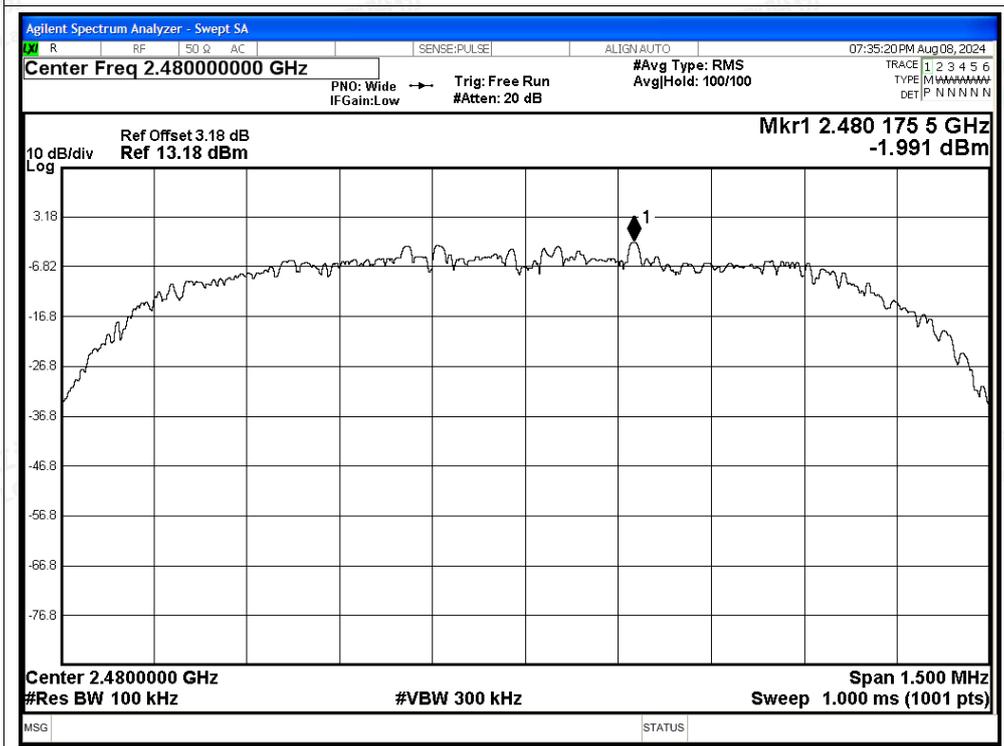


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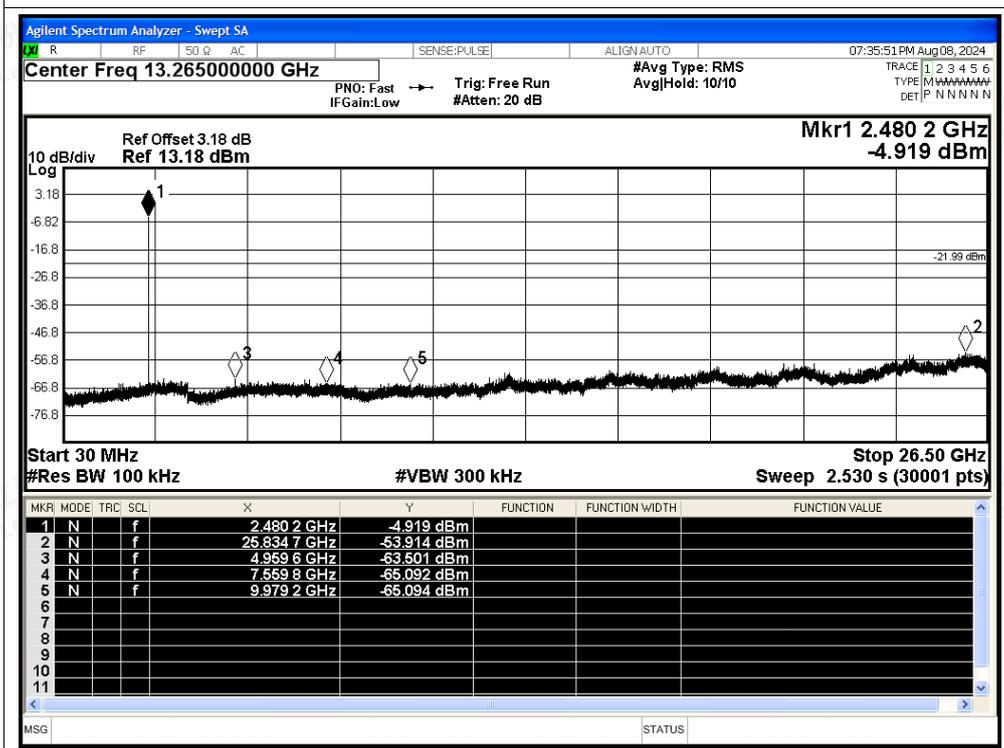




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

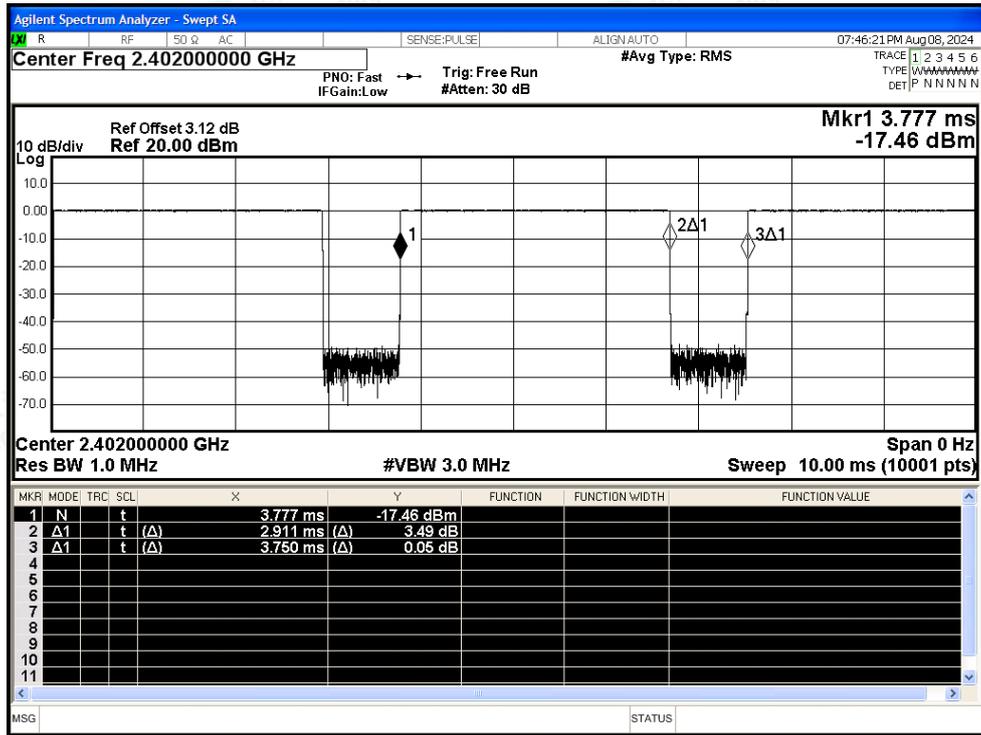
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.33	1.12	0.34
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35



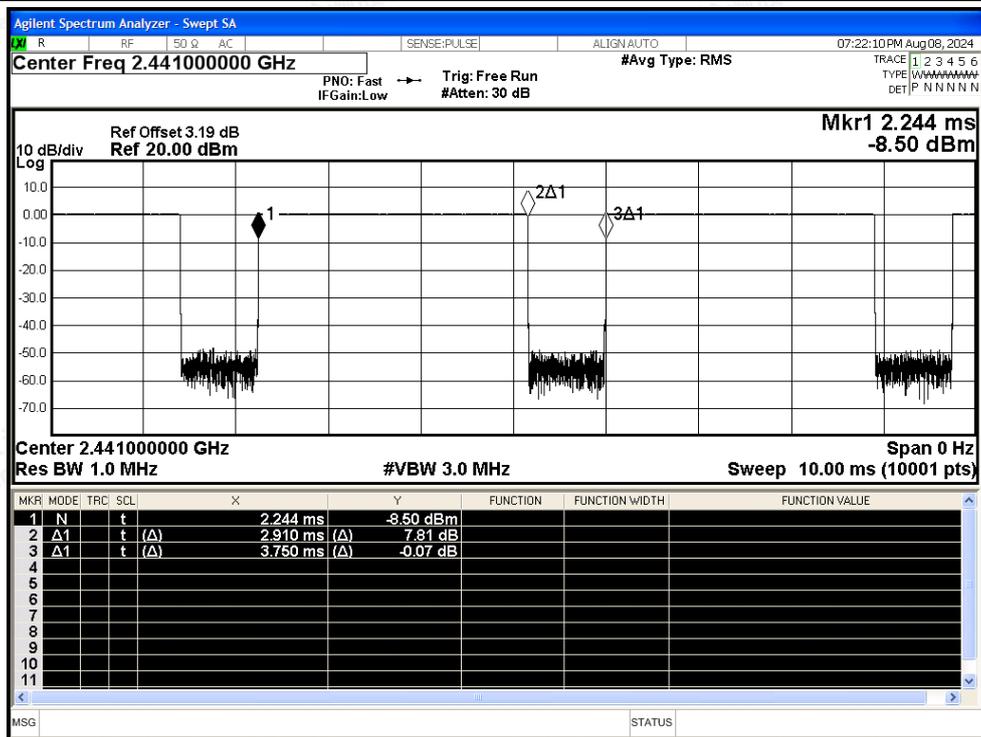


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

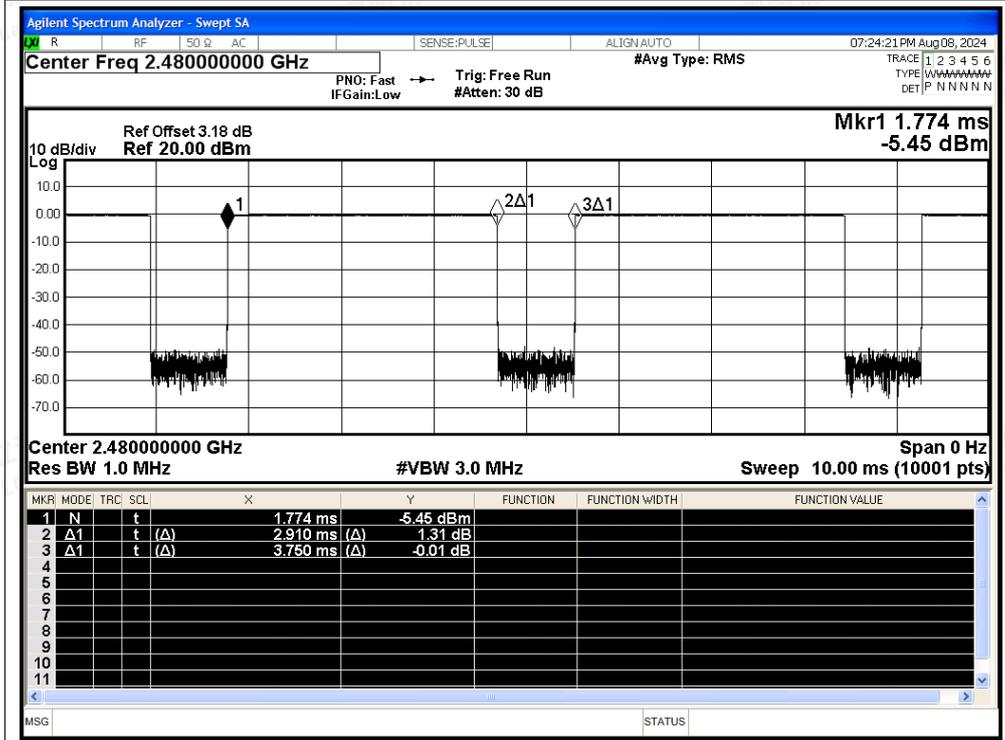


Duty Cycle NVNT 1-DH5 2441MHz Ant1

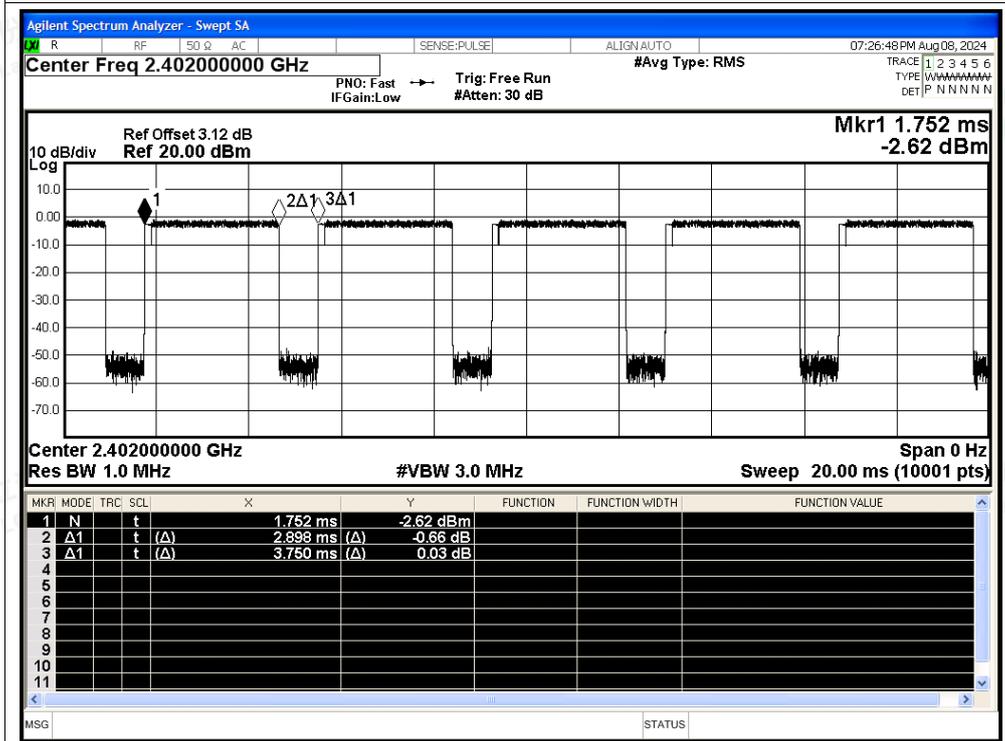




Duty Cycle NVNT 1-DH5 2480MHz Ant1

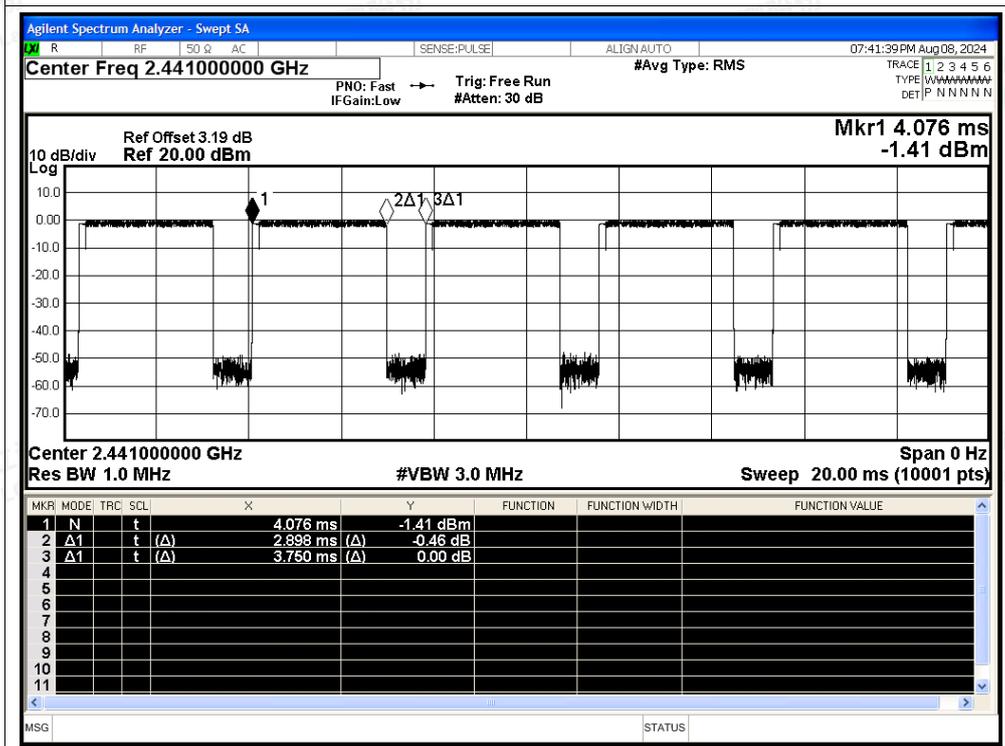


Duty Cycle NVNT 2-DH5 2402MHz Ant1

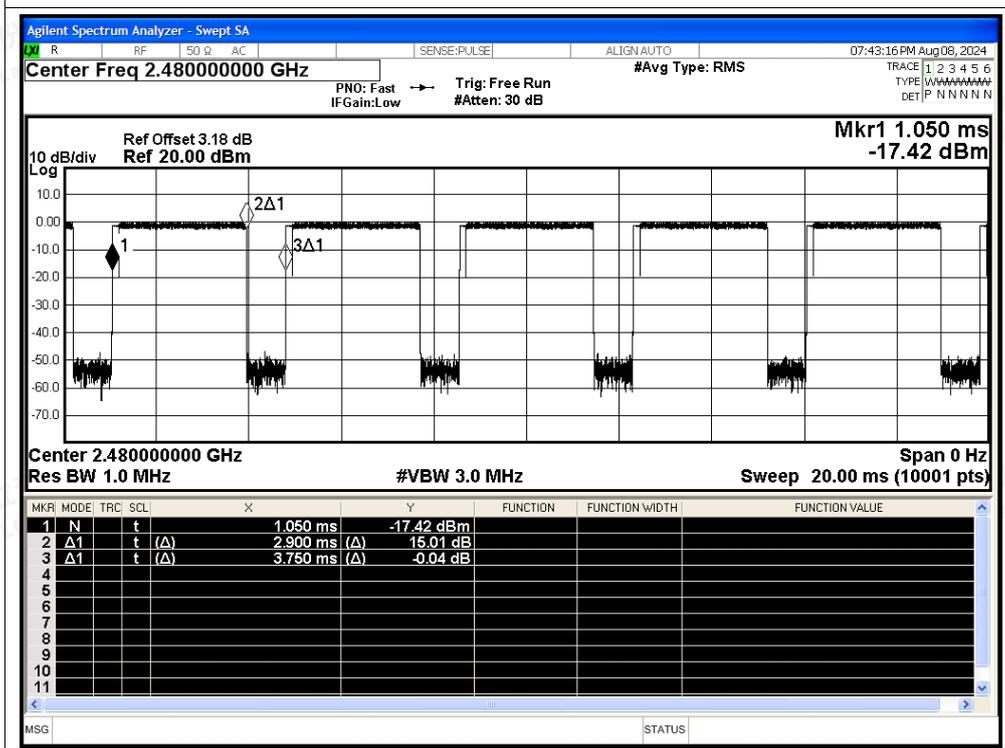




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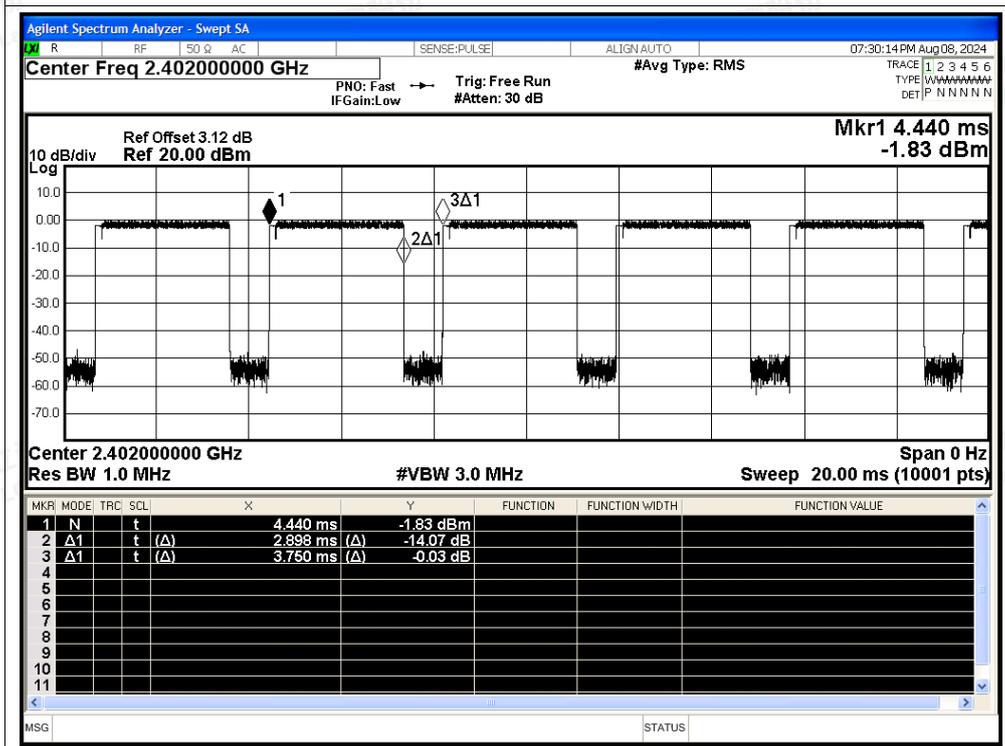


Duty Cycle NVNT 2-DH5 2480MHz Ant1

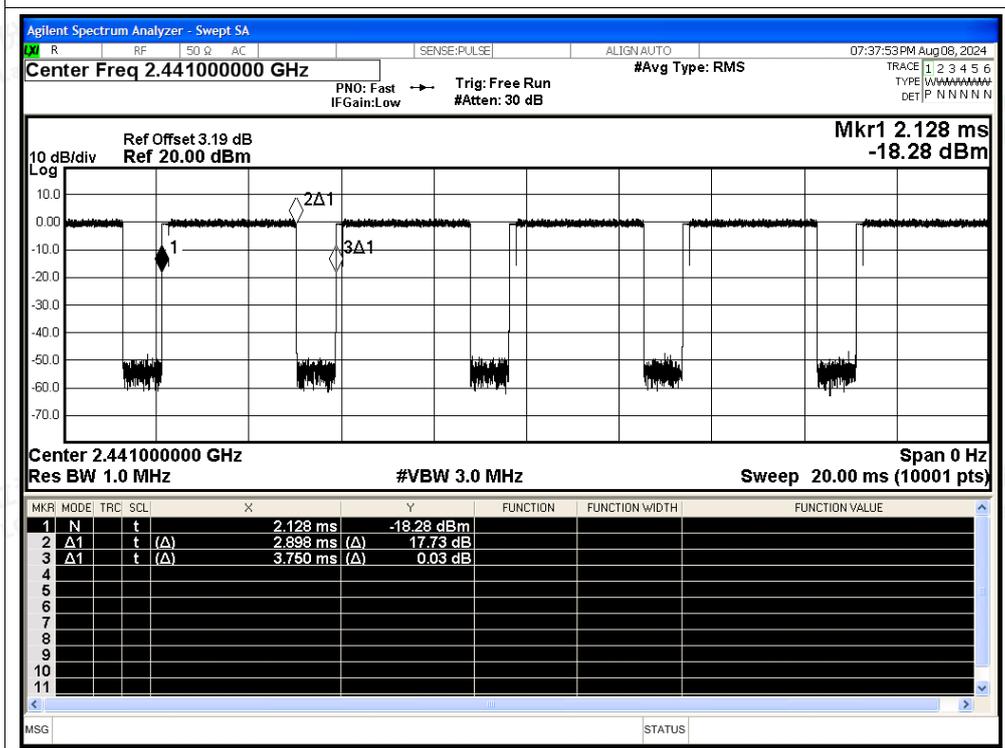


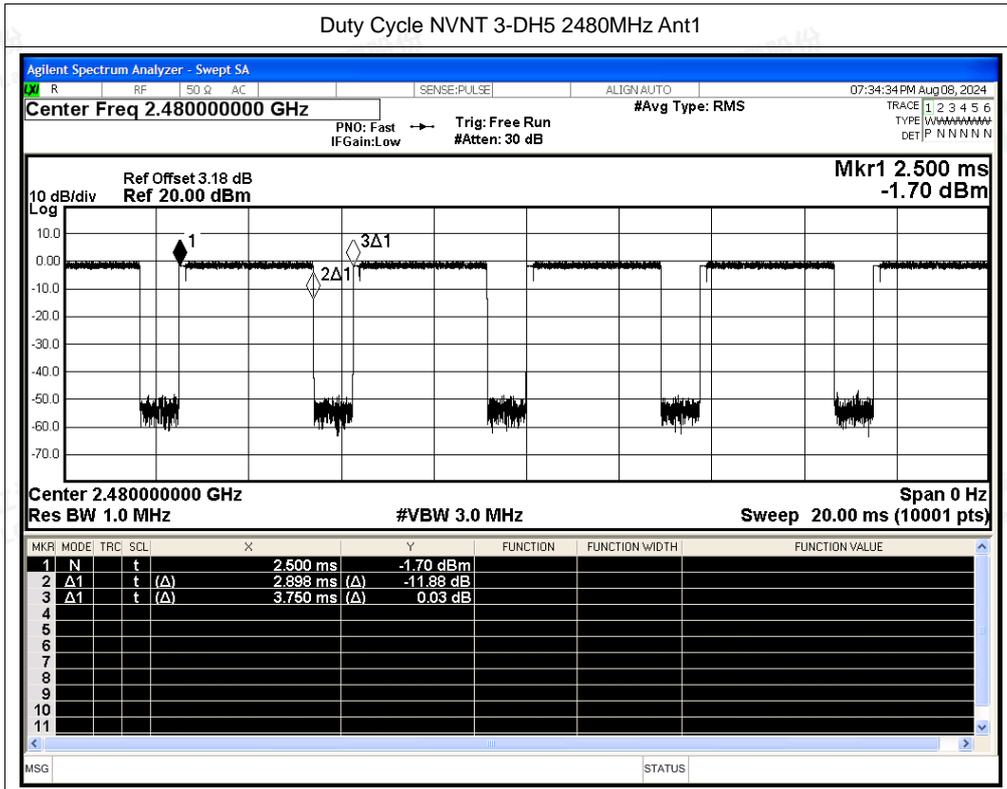


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1







A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-48.41	2	-	48.85	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.18	2	1.1	41.18	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2332.752	-46.4	2	-	50.86	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2361.456	-56.64	2	1.1	41.72	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.03	2	-	48.23	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.3	2	1.1	41.06	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-47.93	2	-	49.33	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.74	2	1.1	41.62	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2489.32	-45.25	2	-	52.01	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.656	-55.86	2	1.1	42.5	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.47	2	-	47.79	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.02	2	1.1	41.34	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-48.68	2	-	48.58	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.03	2	1.12	40.35	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2322.192	-45.91	2	-	51.35	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2339.568	-56.64	2	1.12	41.74	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.02	2	-	48.24	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.64	2	1.12	40.74	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-46.82	2	-	50.44	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-56.22	2	1.12	42.16	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.656	-44.73	2	-	52.53	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.656	-55.98	2	1.12	42.4	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-47.93	2	-	49.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-56.7	2	1.12	41.68	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.6	2	-	46.66	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.41	2	1.12	40.97	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2357.232	-46.18	2	-	51.08	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2359.056	-56.54	2	1.12	41.84	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.3	2	-	46.96	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.53	2	1.12	40.85	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.32	2	-	48.94	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-56.09	2	1.12	42.29	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.608	-45.42	2	-	51.84	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.704	-55.92	2	1.12	42.46	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-47.82	2	-	49.44	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-56.67	2	1.12	41.71	Average	54	Pass



Shenzhen LCS Compliance Testing Laboratory Ltd.

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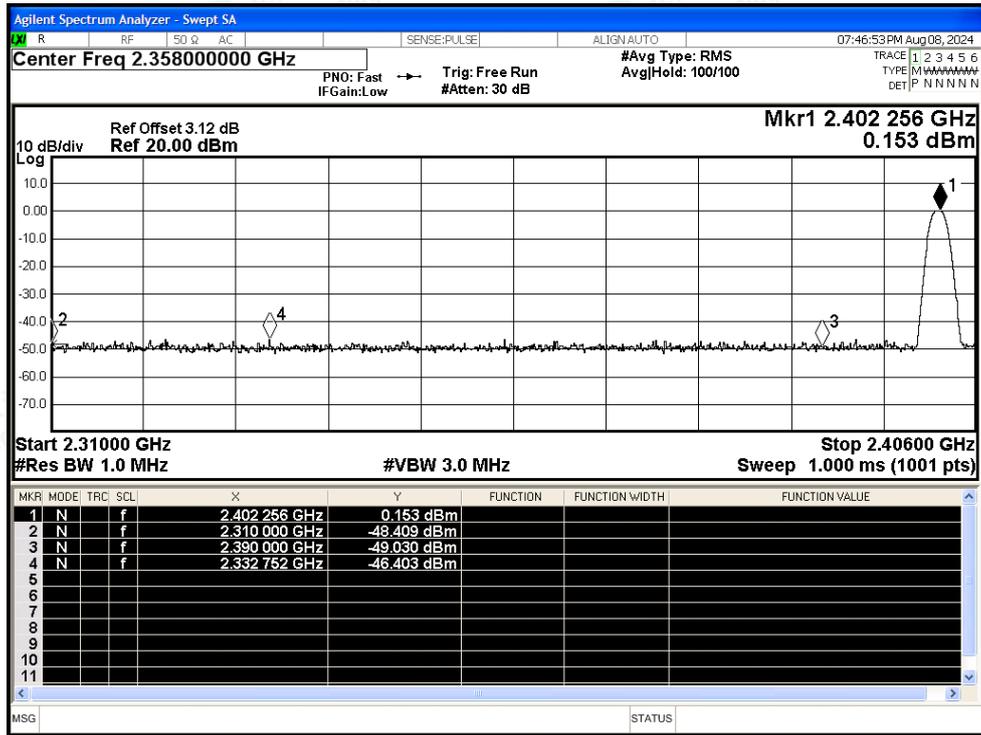
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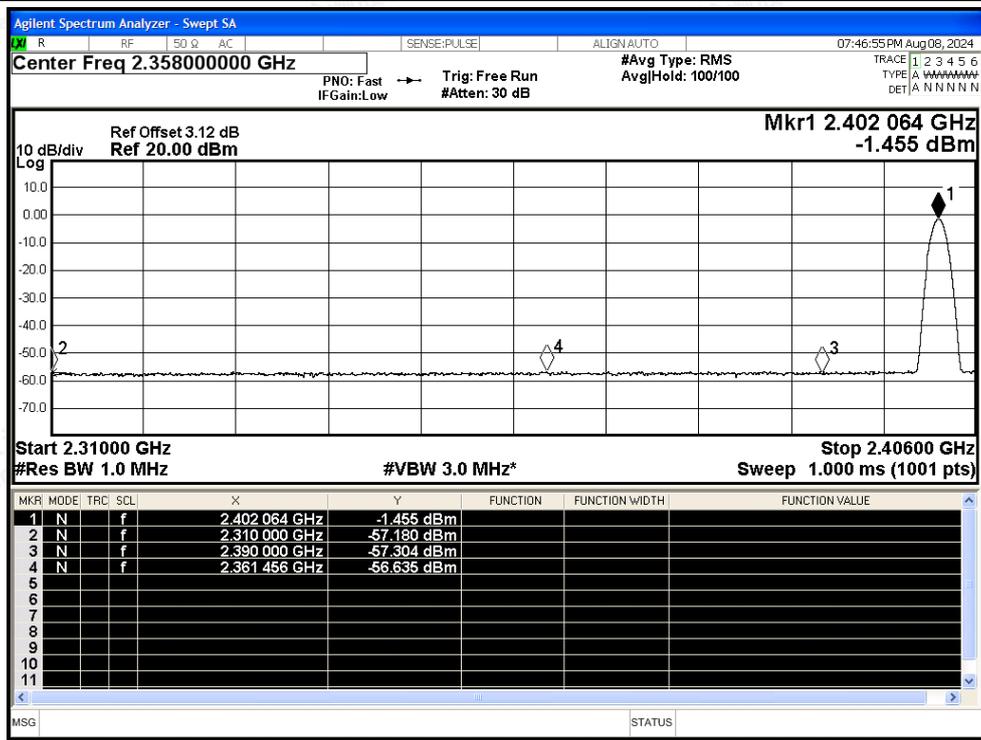


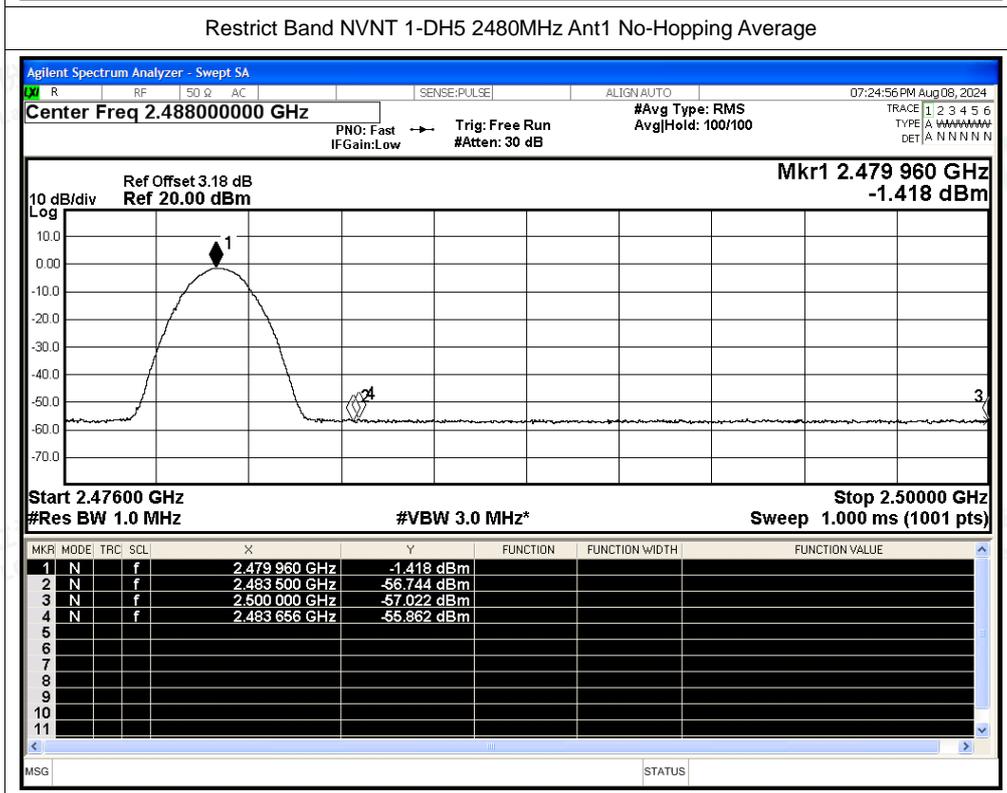
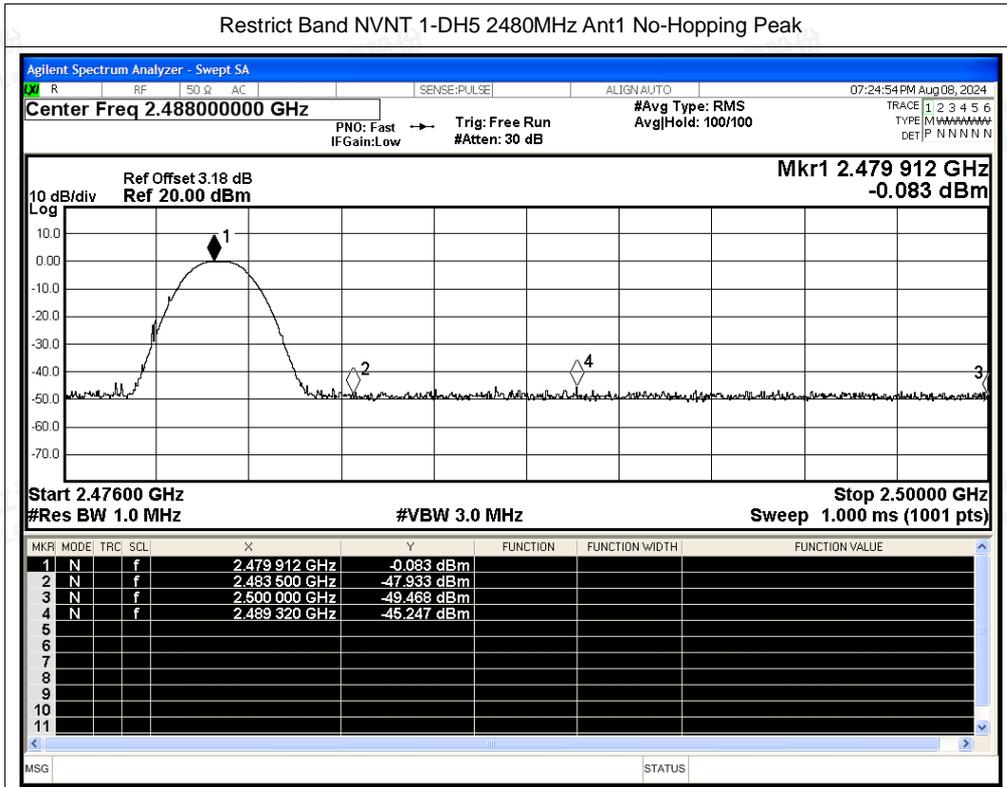
Test Graphs

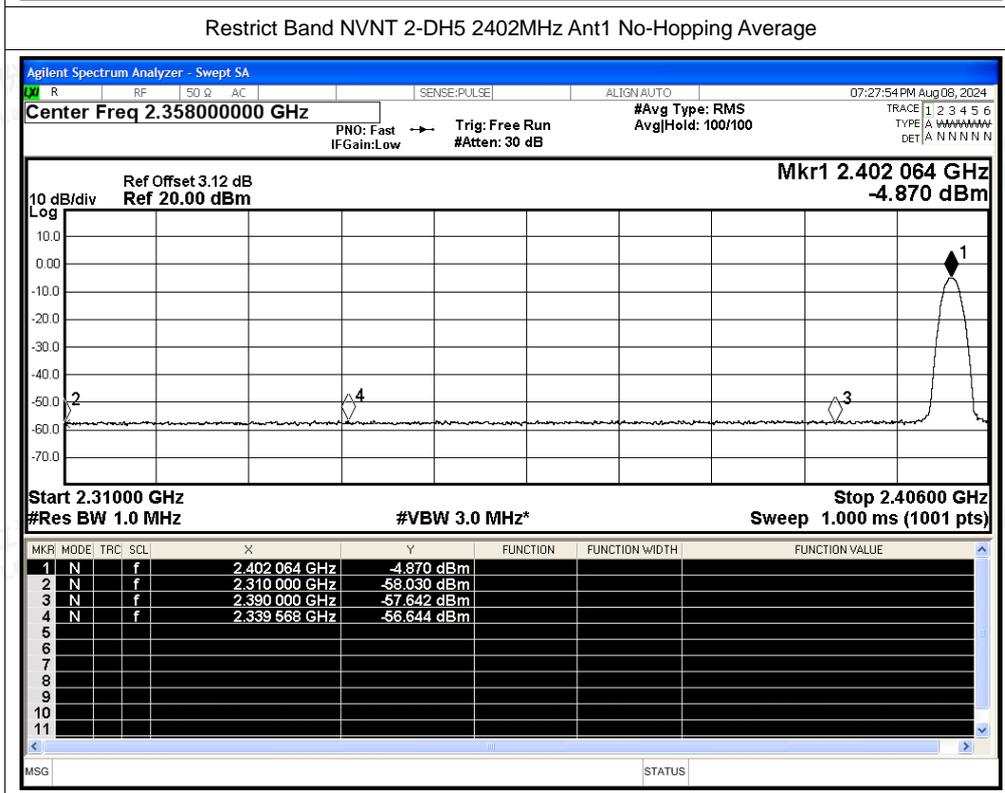
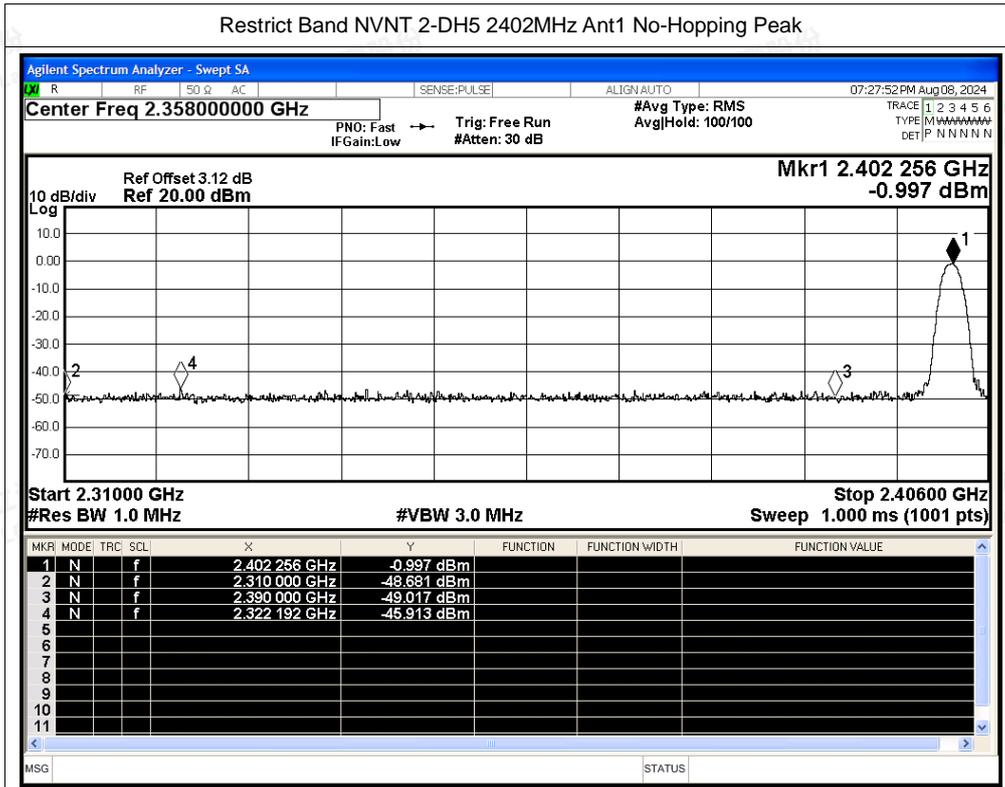
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



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

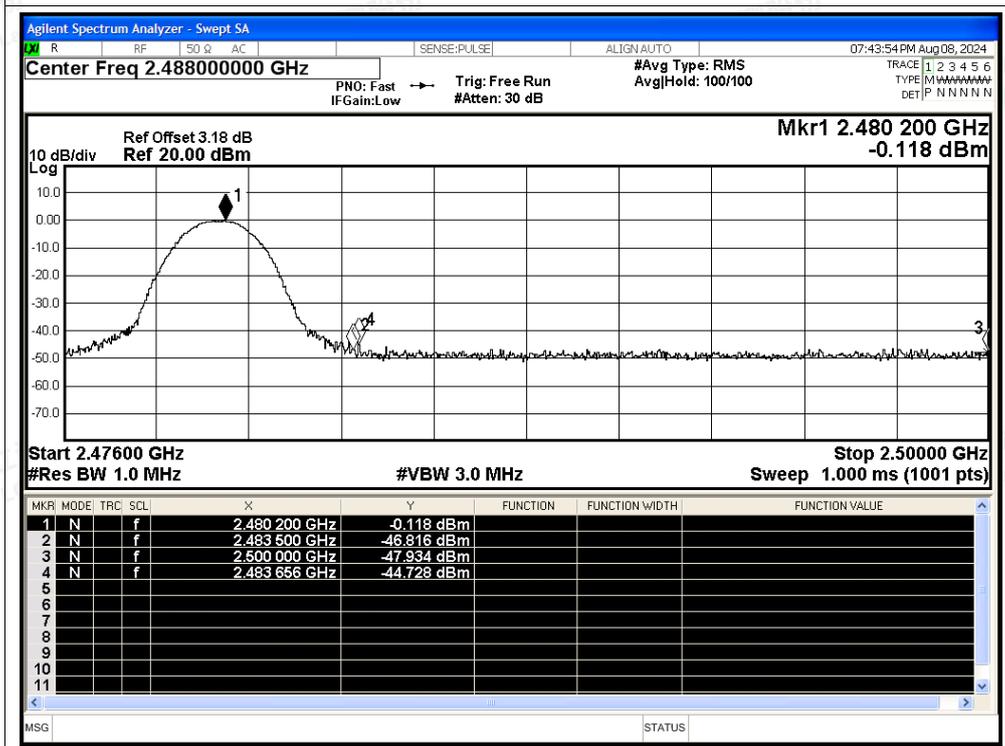




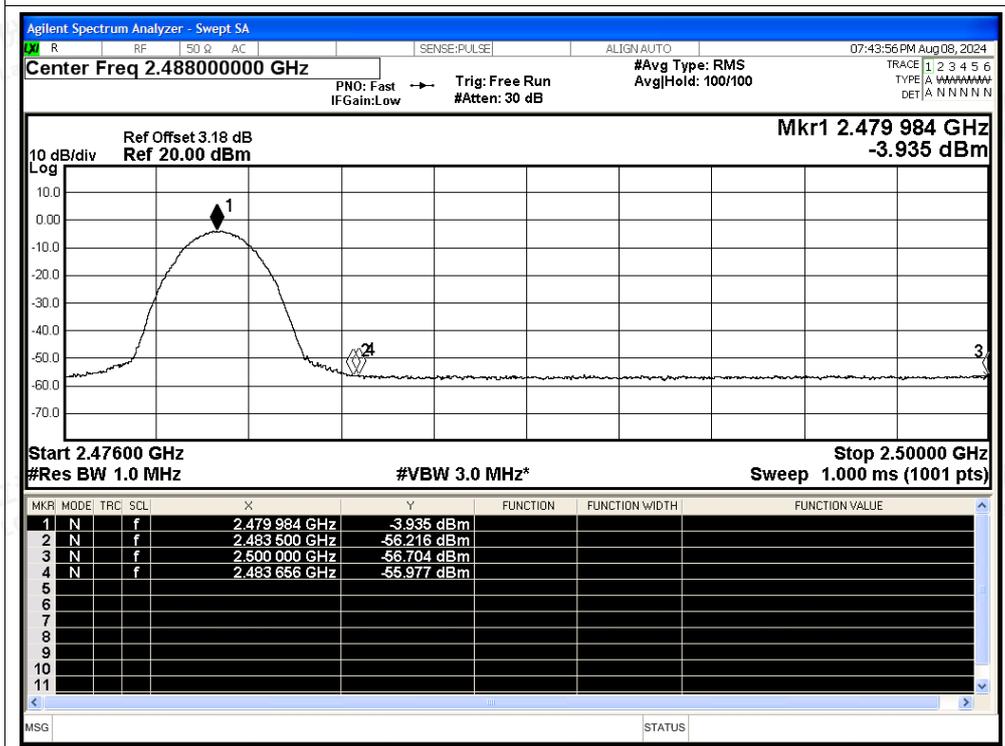




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

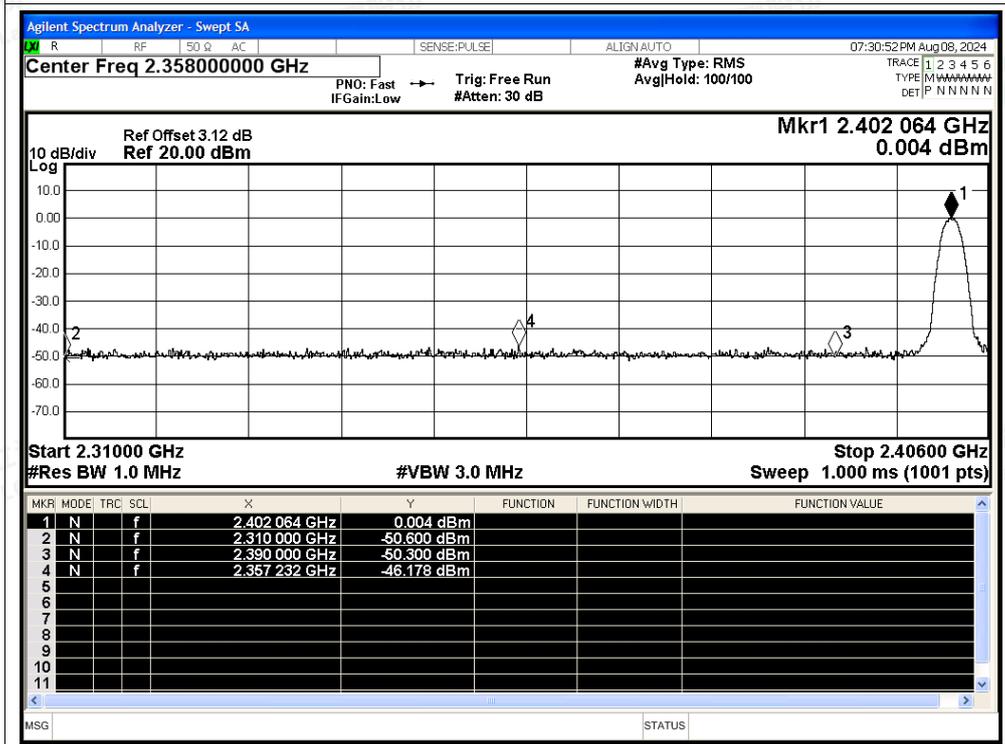


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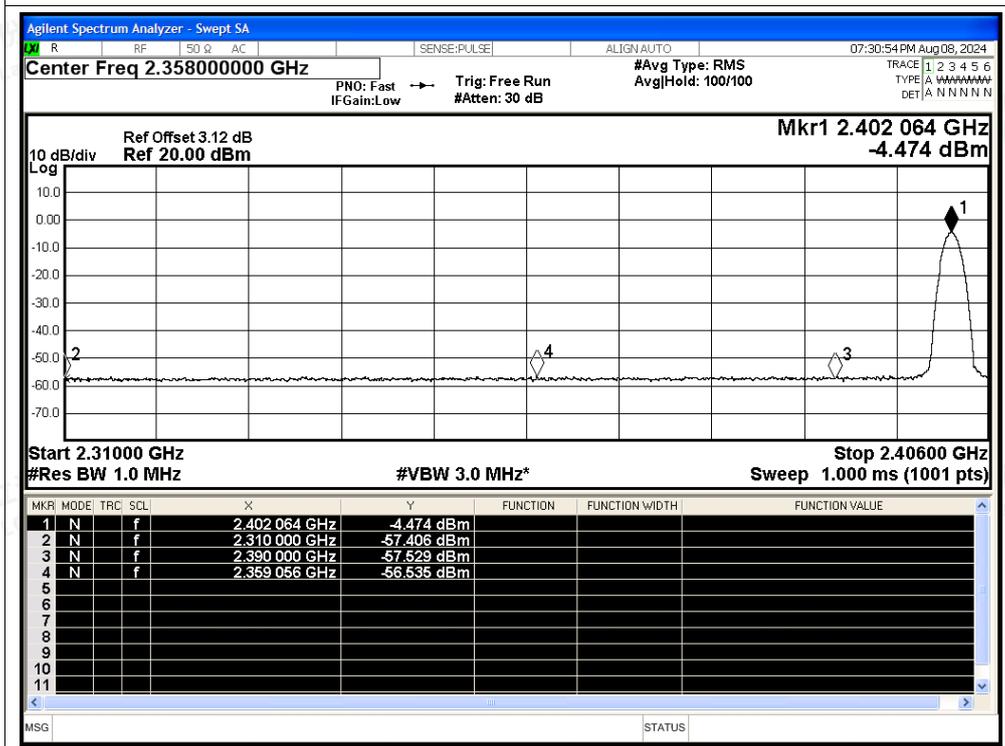




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average



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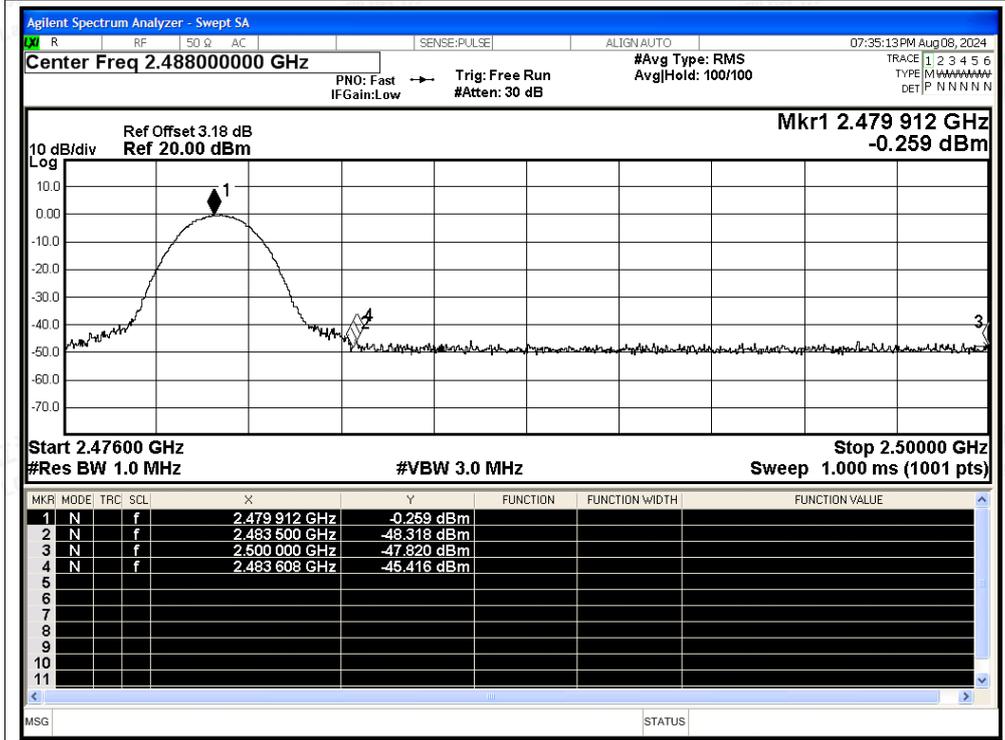
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