



Appendix A

RF Test Data for BT(Conducted Measurement)

Product Name: Music Box

Test Model: K60

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu





A.1 -20dB Bandwidth

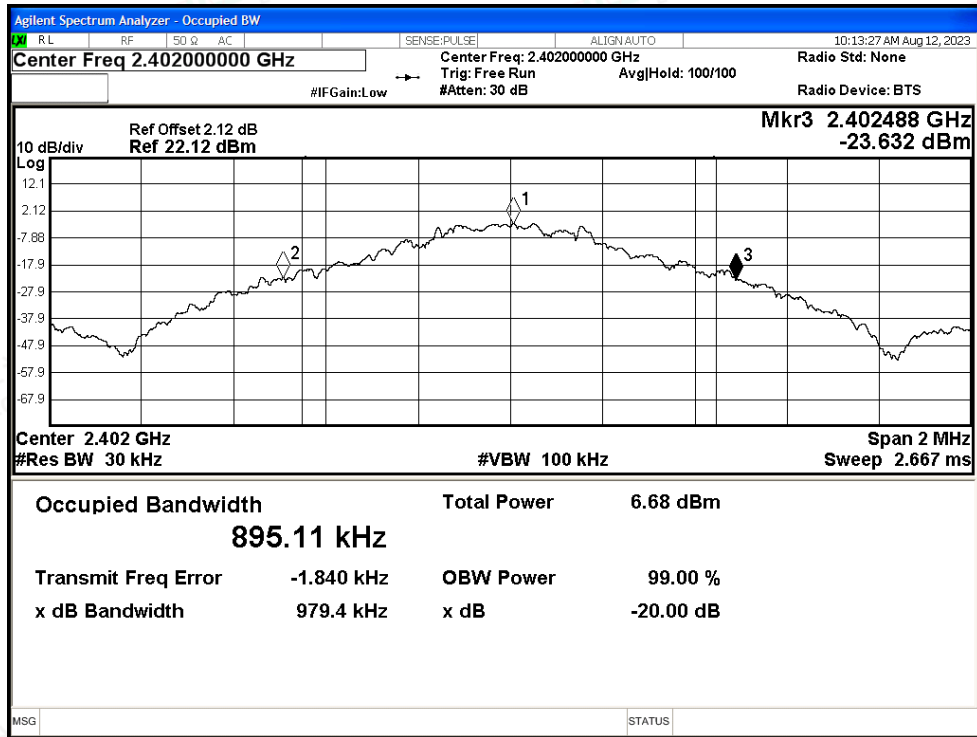
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.979	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.972	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.023	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.305	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.277	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.31	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.298	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.3	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.274	N/A	Pass



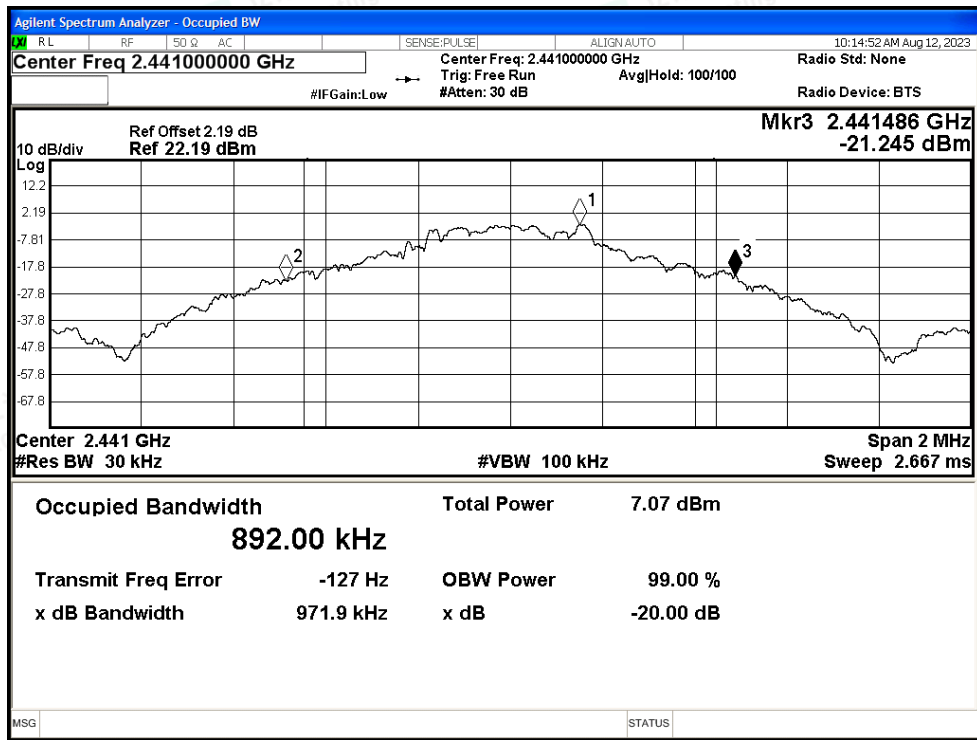


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

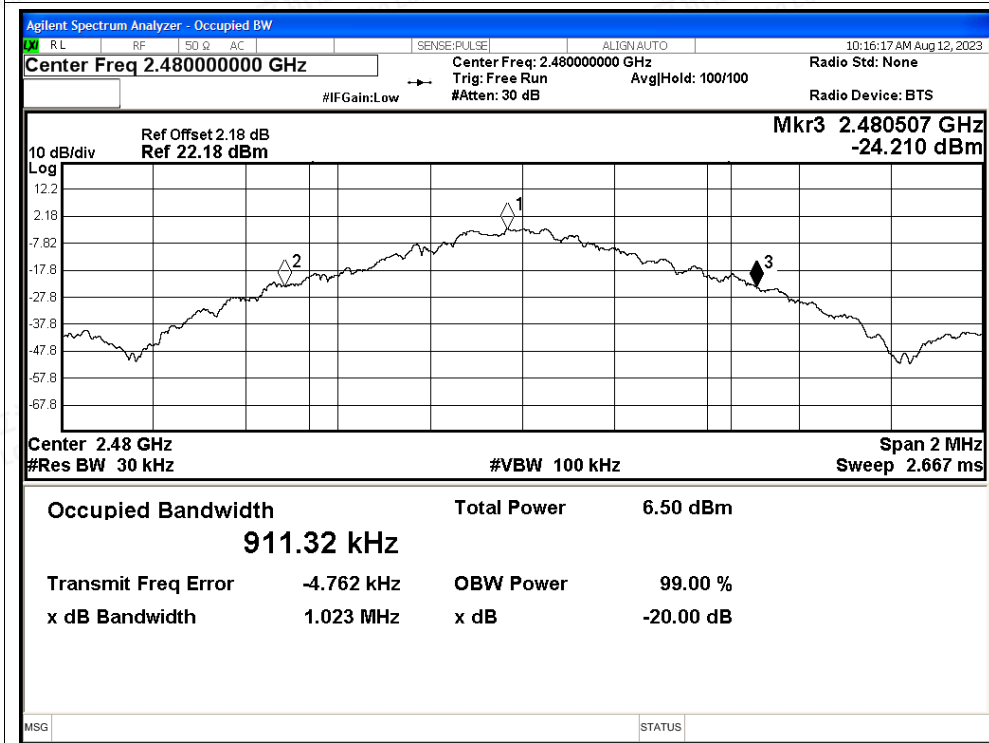


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

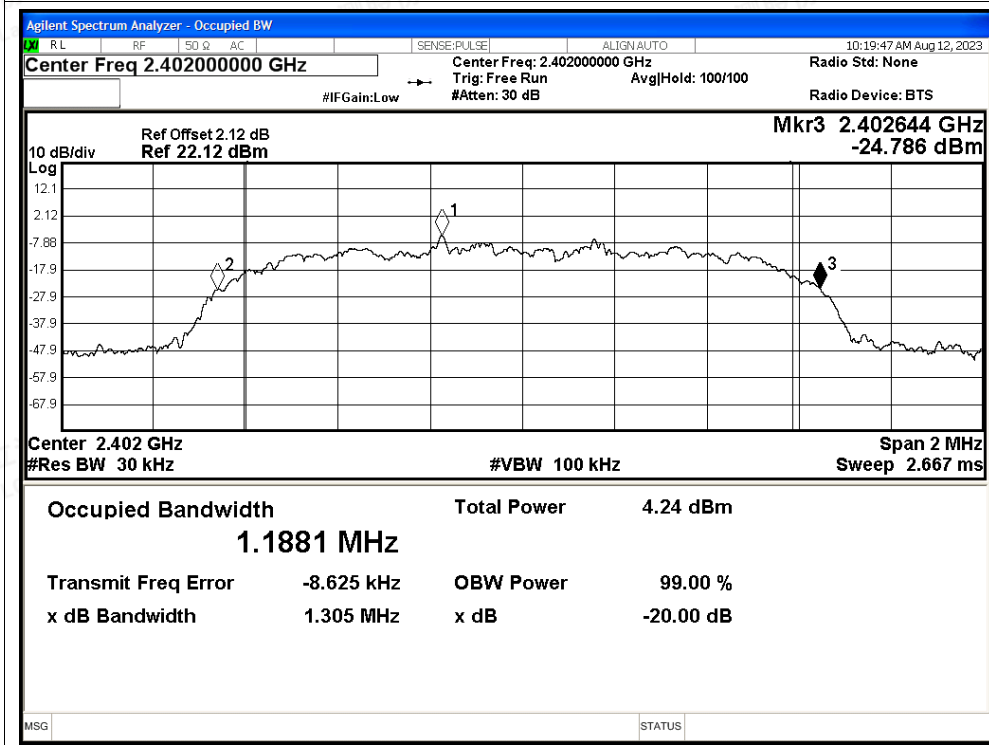




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

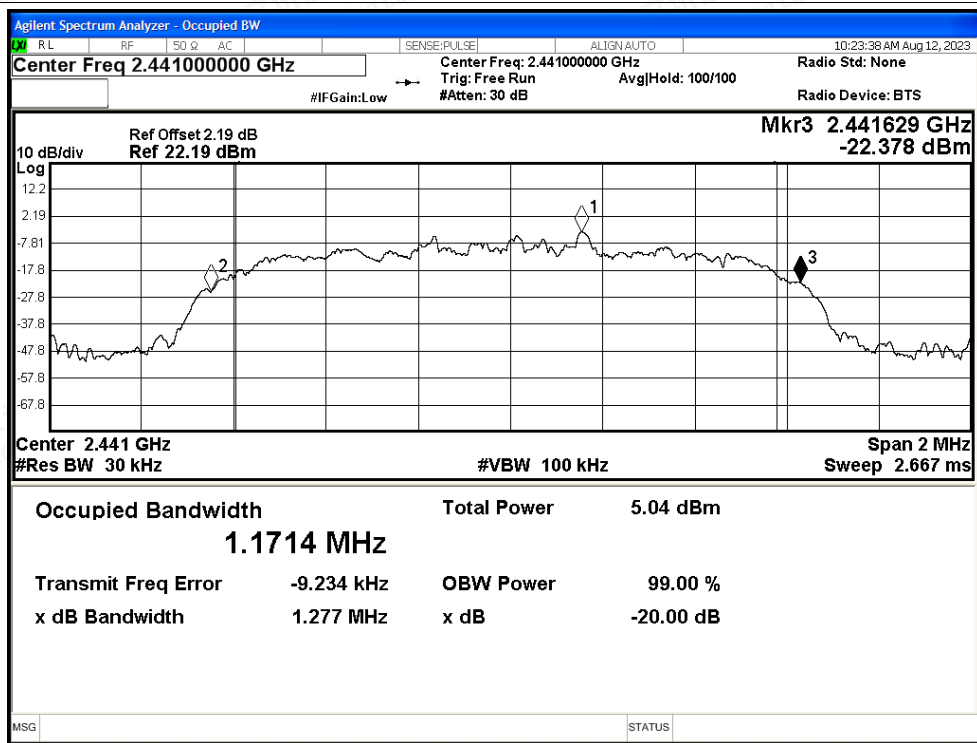


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

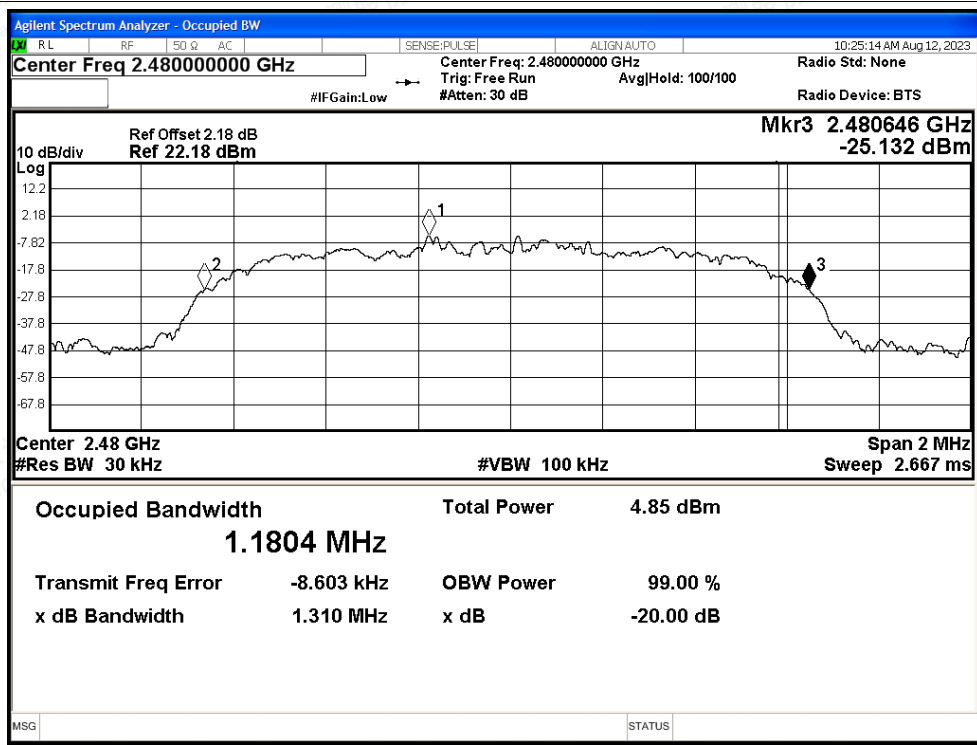




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

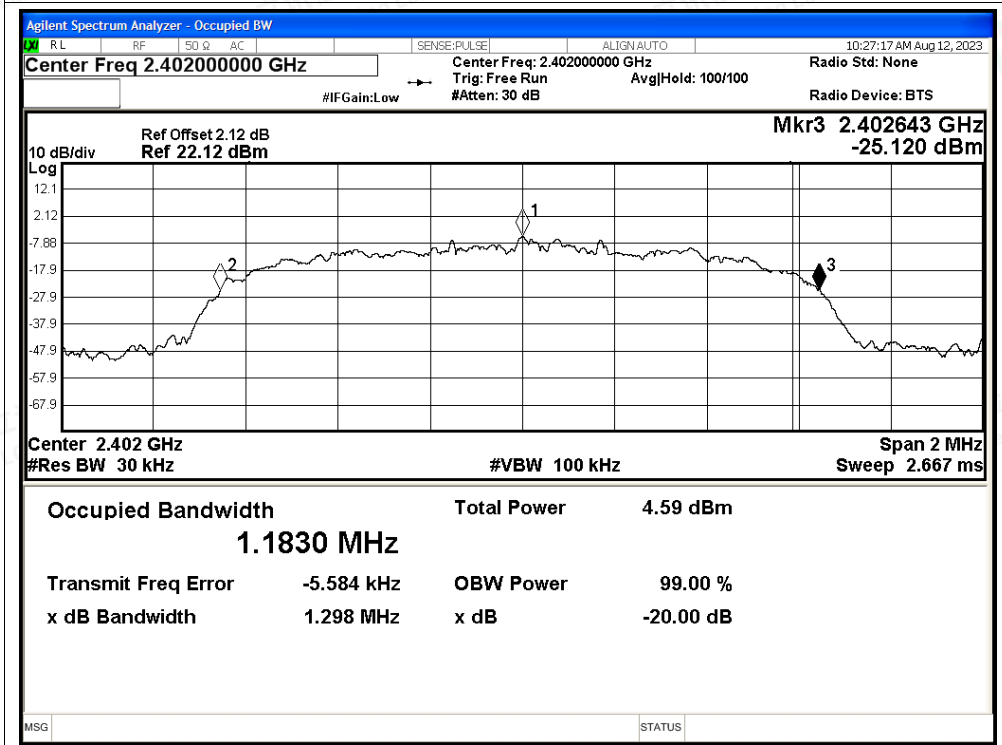


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

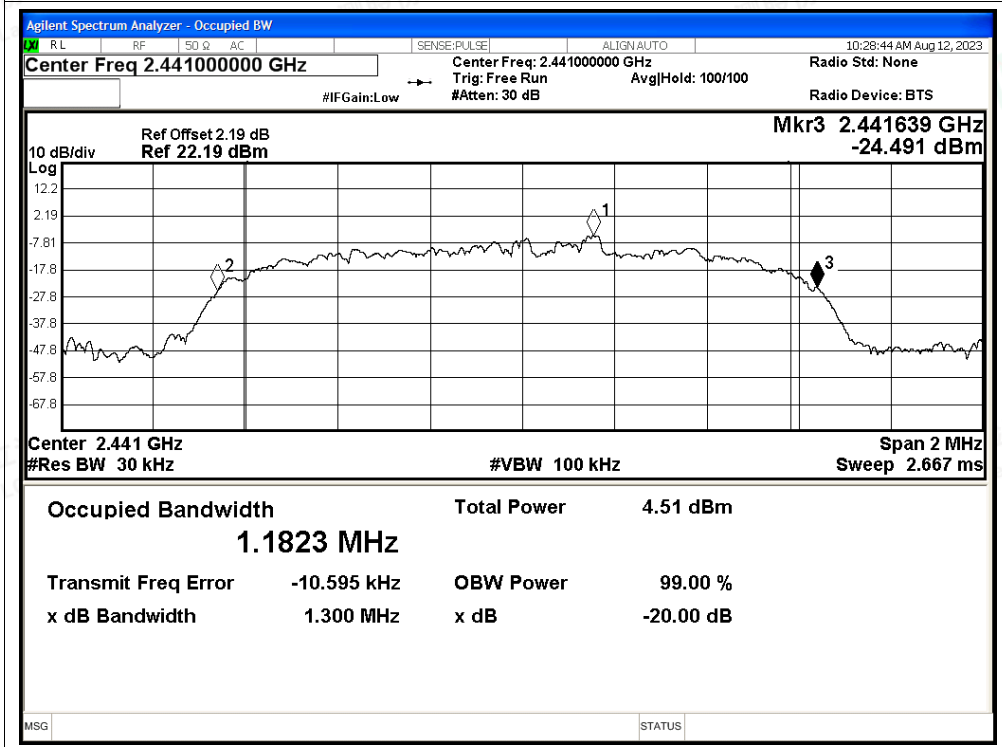


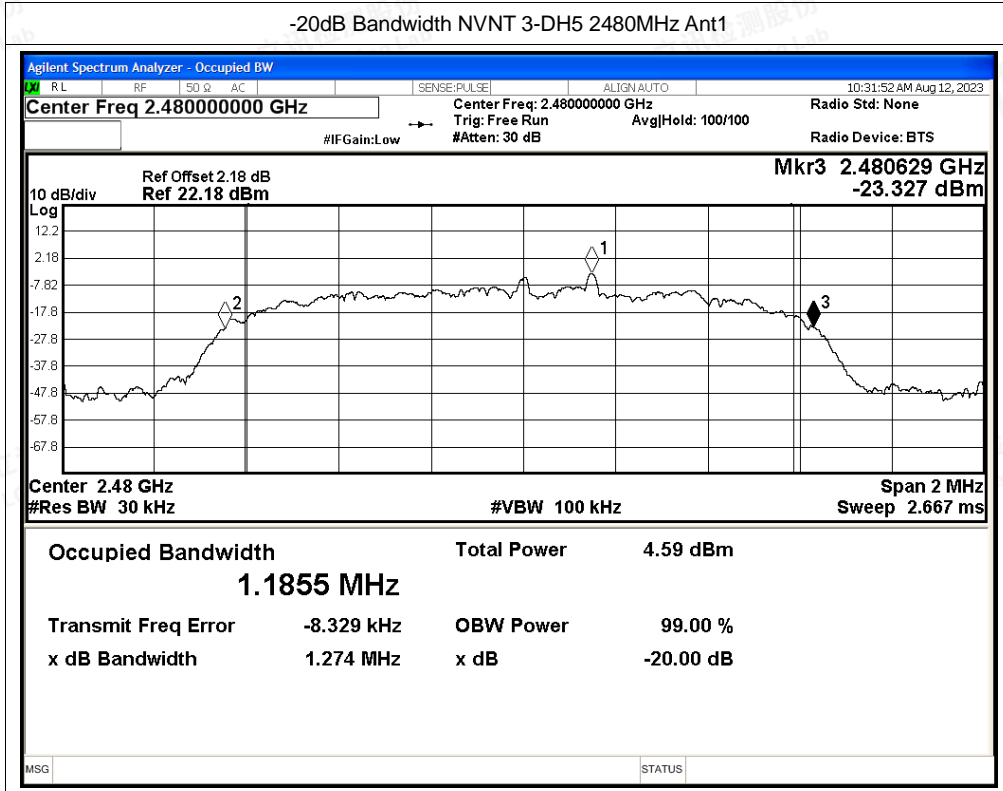


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Occupied Channel Bandwidth

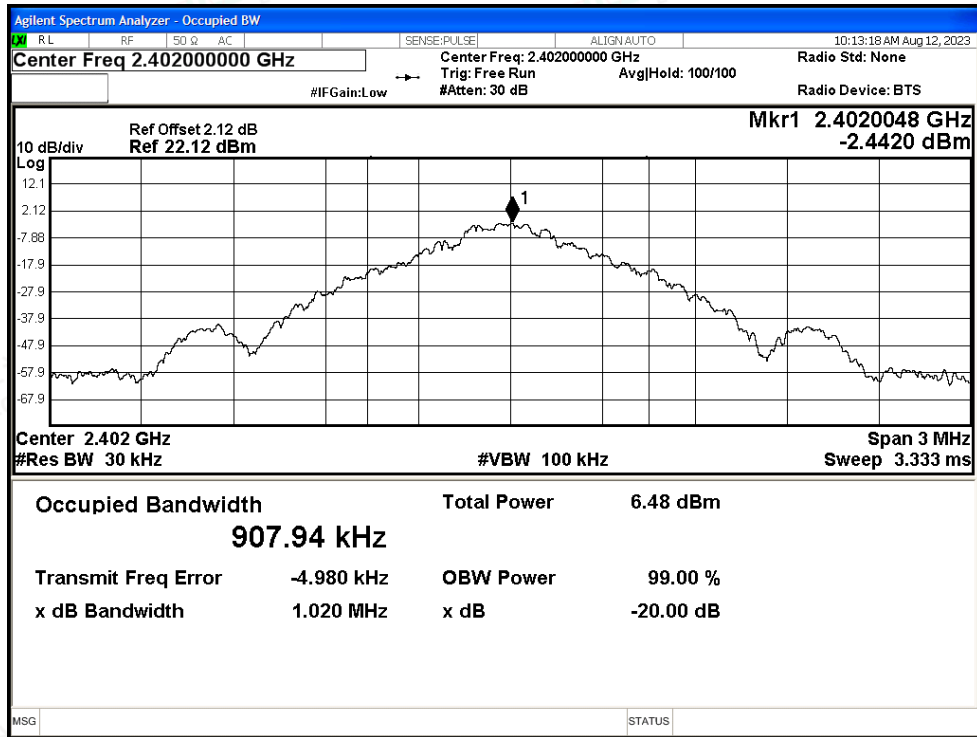
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.908
NVNT	1-DH5	2441	Ant1	0.899
NVNT	1-DH5	2480	Ant1	0.906
NVNT	2-DH5	2402	Ant1	1.175
NVNT	2-DH5	2441	Ant1	1.181
NVNT	2-DH5	2480	Ant1	1.172
NVNT	3-DH5	2402	Ant1	1.176
NVNT	3-DH5	2441	Ant1	1.184
NVNT	3-DH5	2480	Ant1	1.185



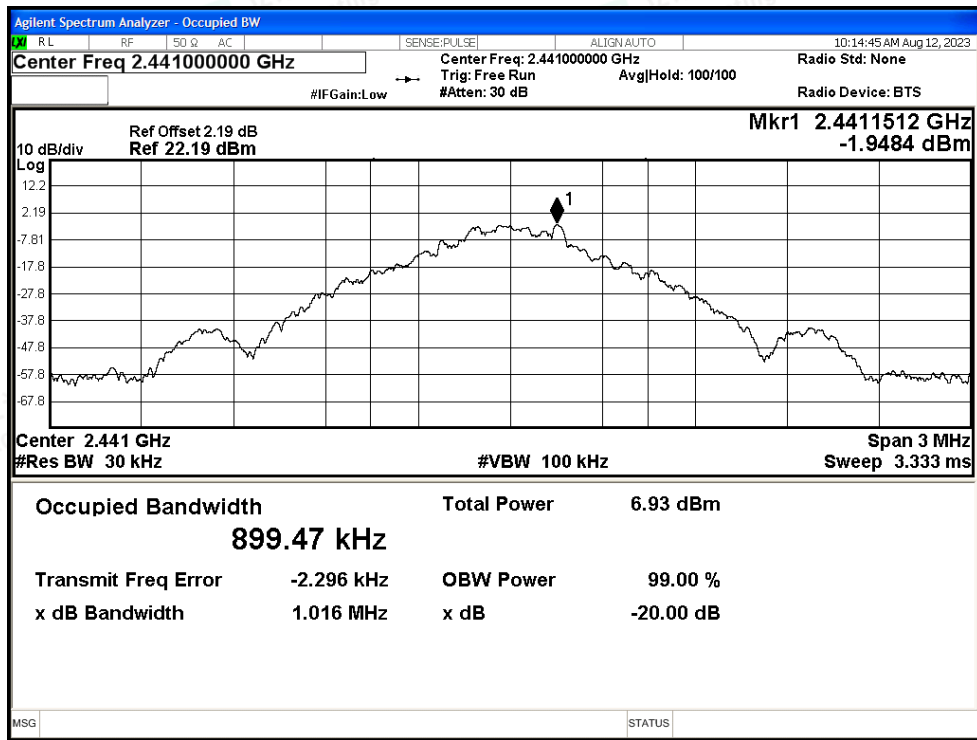


Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1

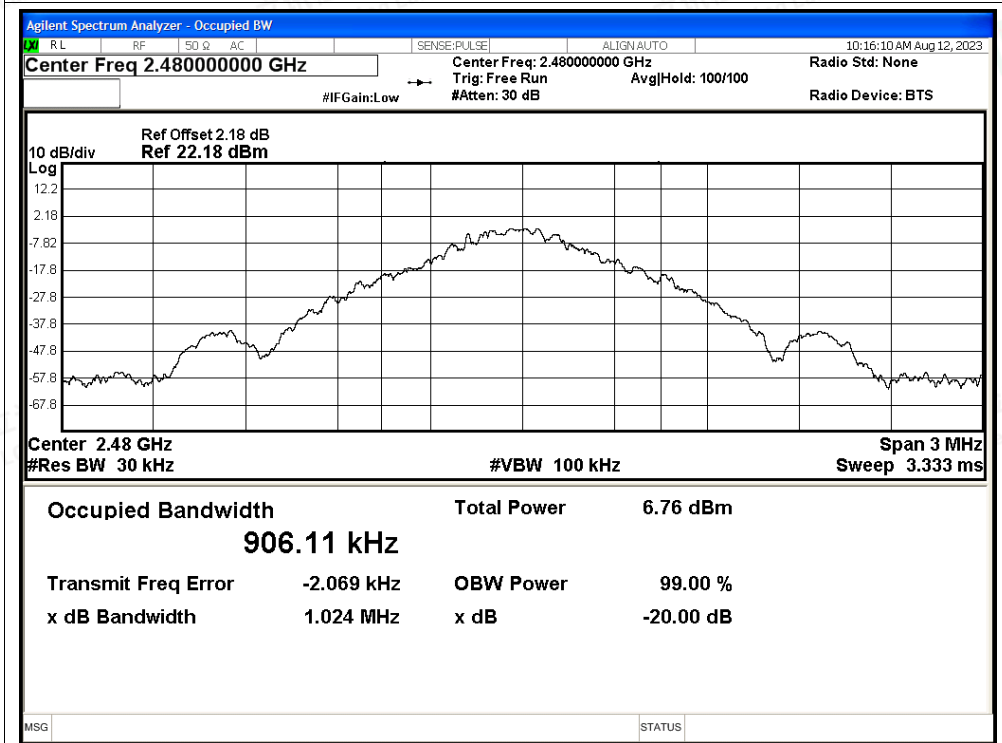


OBW NVNT 1-DH5 2441MHz Ant1

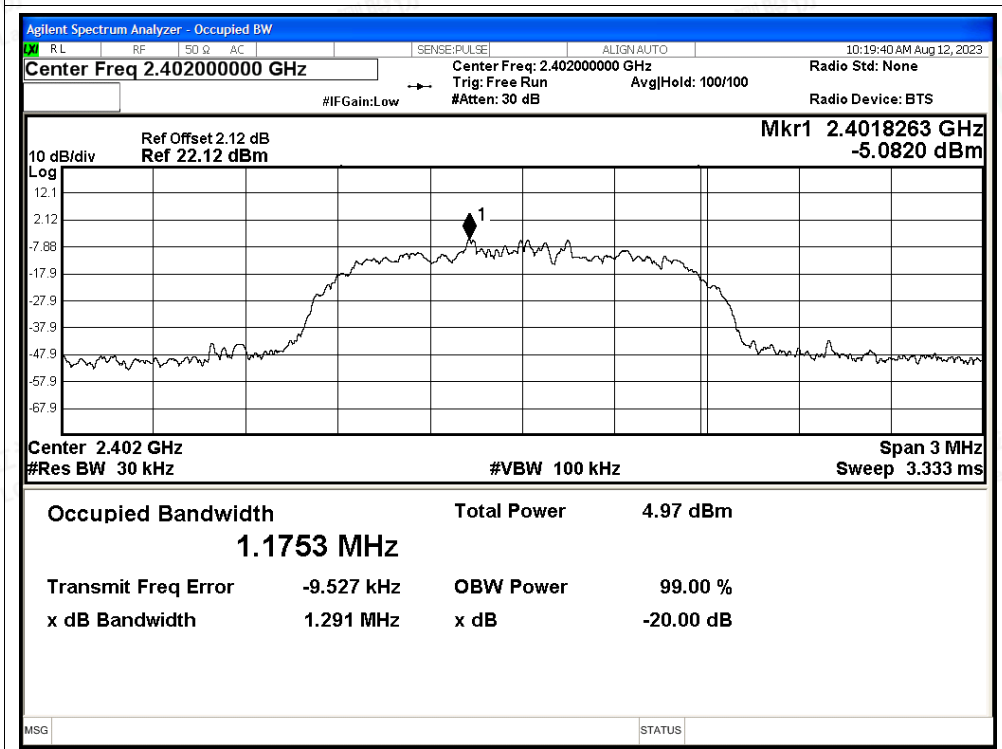




OBW NVNT 1-DH5 2480MHz Ant1

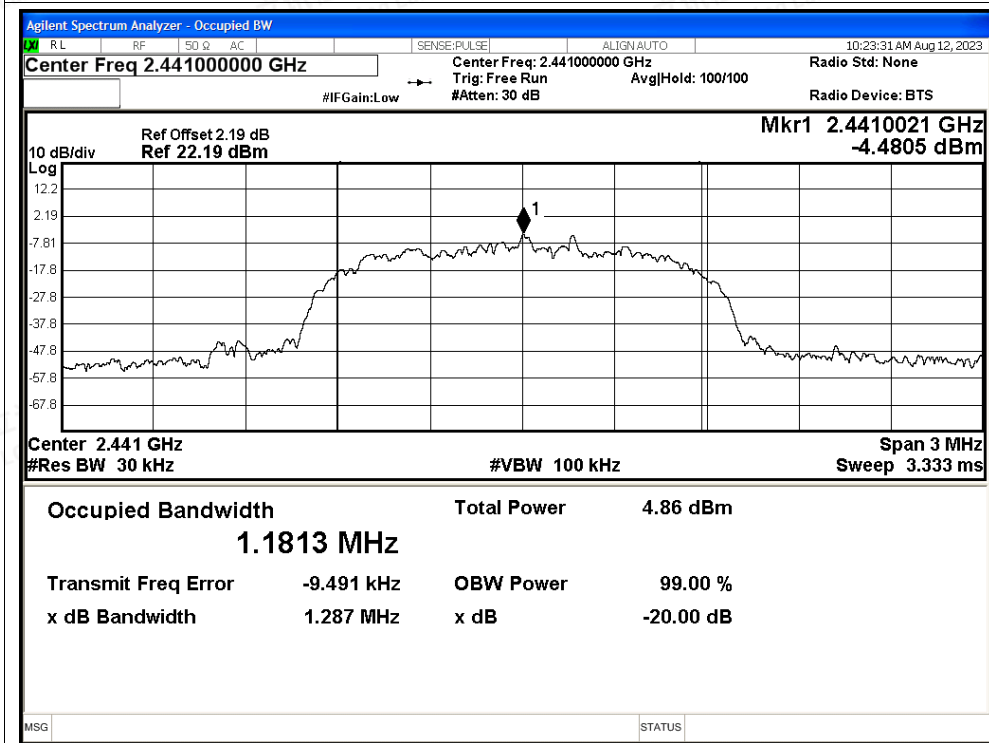


OBW NVNT 2-DH5 2402MHz Ant1

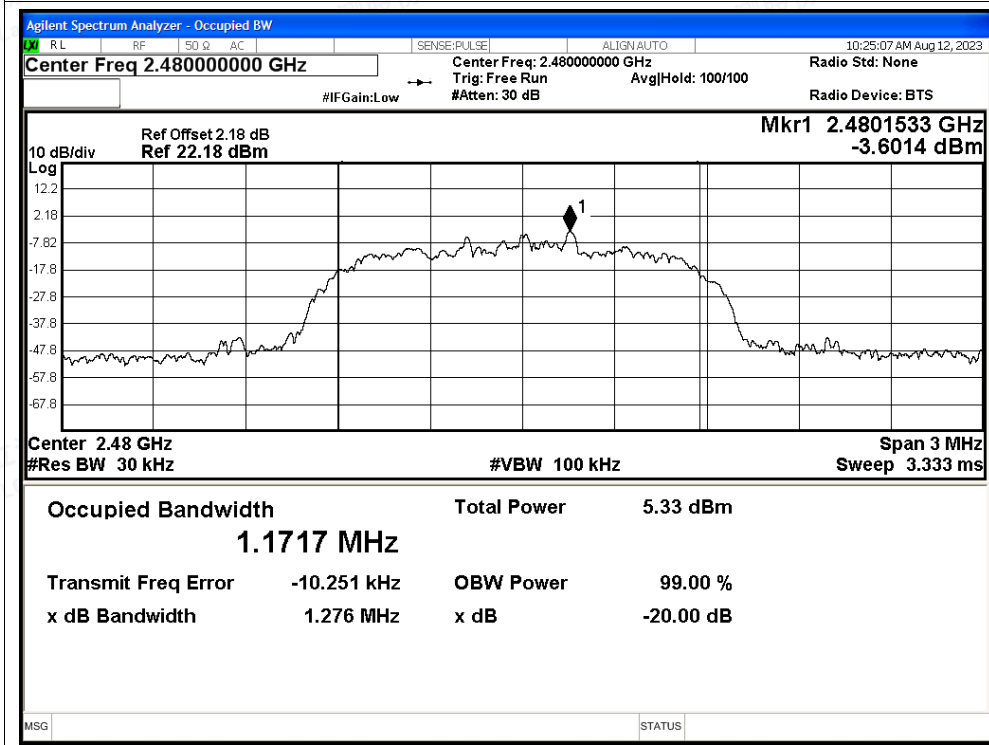




OBW NVNT 2-DH5 2441MHz Ant1

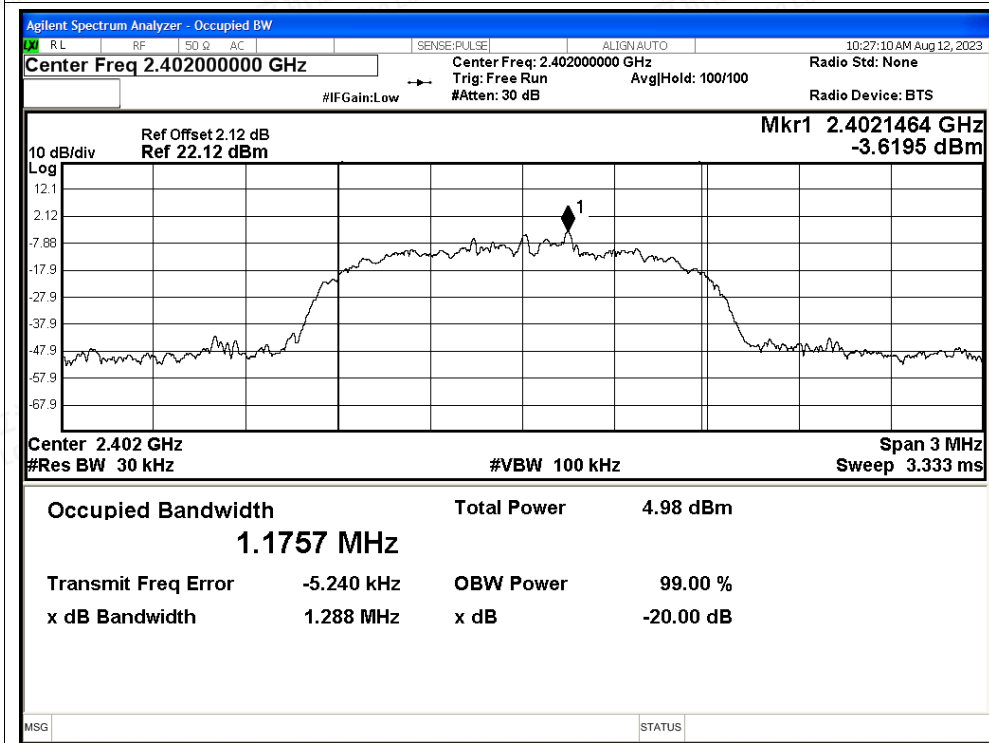


OBW NVNT 2-DH5 2480MHz Ant1

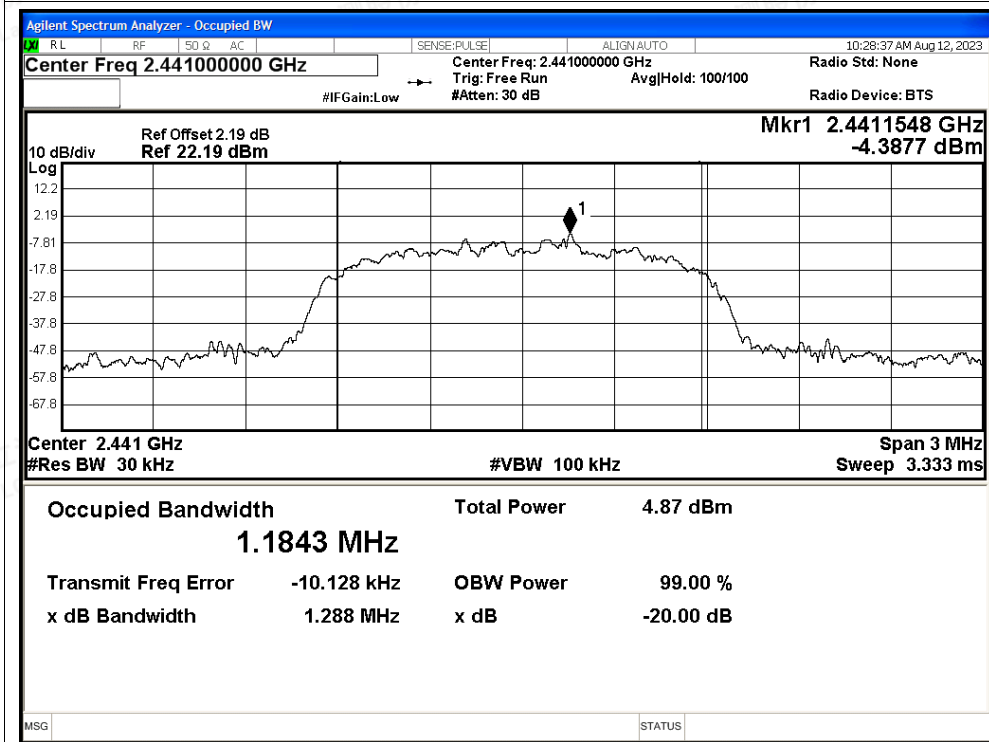


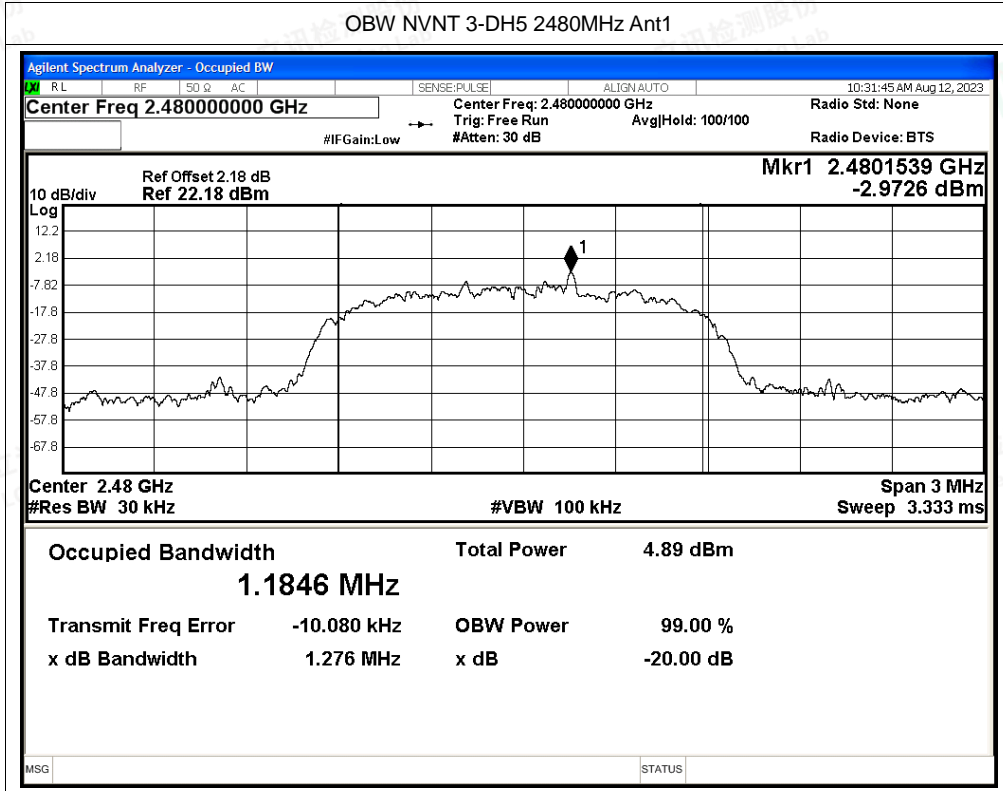


OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1







A.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.33	21	Pass
NVNT	1-DH5	2441	Ant1	0.49	21	Pass
NVNT	1-DH5	2480	Ant1	0.47	21	Pass
NVNT	2-DH5	2402	Ant1	0.08	21	Pass
NVNT	2-DH5	2441	Ant1	0.31	21	Pass
NVNT	2-DH5	2480	Ant1	0.33	21	Pass
NVNT	3-DH5	2402	Ant1	0.02	21	Pass
NVNT	3-DH5	2441	Ant1	0.18	21	Pass
NVNT	3-DH5	2480	Ant1	0.23	21	Pass

EIRP

Mode	Channel.	Maximum Peak Output Power (dBm)	Antenna Gain	Report EIRP Power(dBm)	Limit (dBm)	Verdict
1-DH5	LCH	0.33	3.38	3.71	36	PASS
	MCH	0.49	3.38	3.87	36	PASS
	HCH	0.47	3.38	3.85	36	PASS
2-DH5	LCH	0.08	3.38	3.46	36	PASS
	MCH	0.31	3.38	3.69	36	PASS
	HCH	0.33	3.38	3.71	36	PASS
3-DH5	LCH	0.02	3.38	3.4	36	PASS
	MCH	0.18	3.38	3.56	36	PASS
	HCH	0.23	3.38	3.61	36	PASS

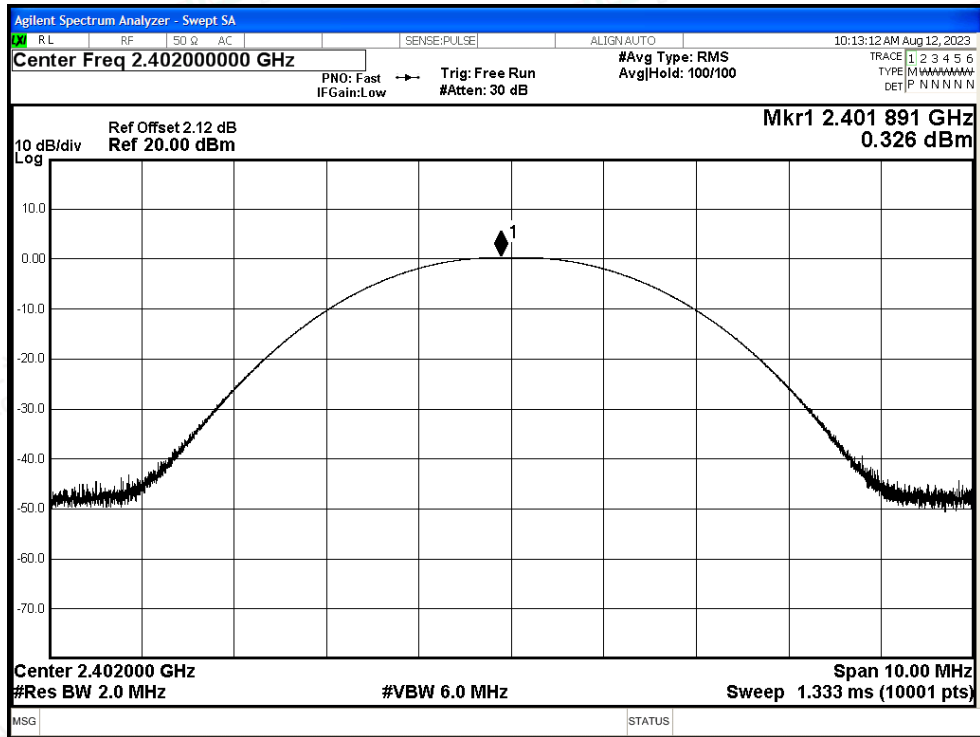


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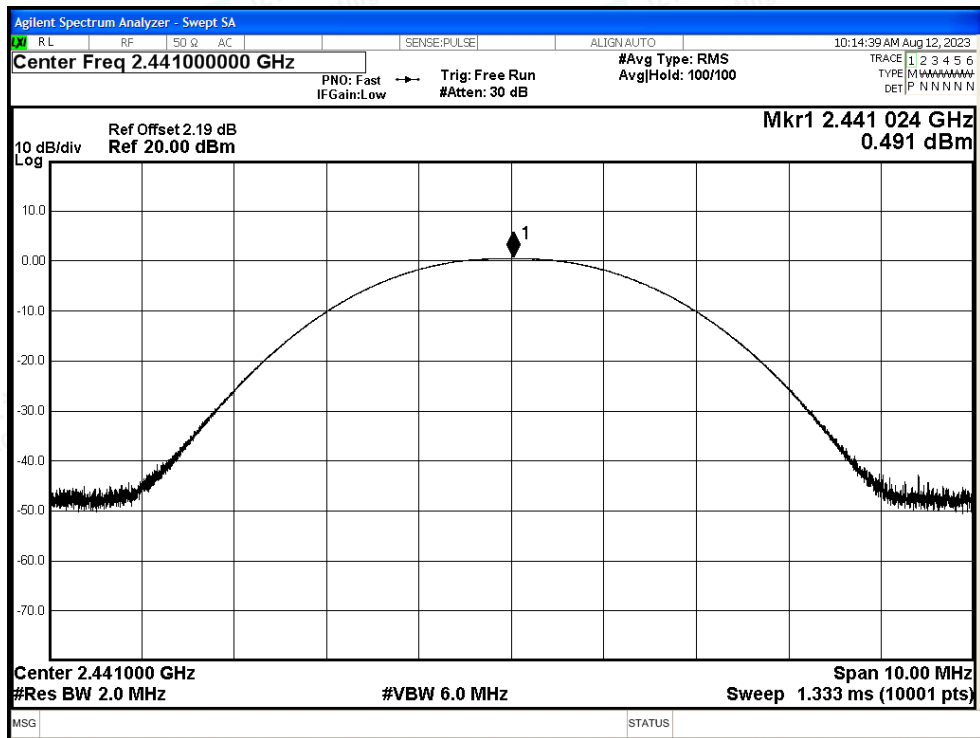


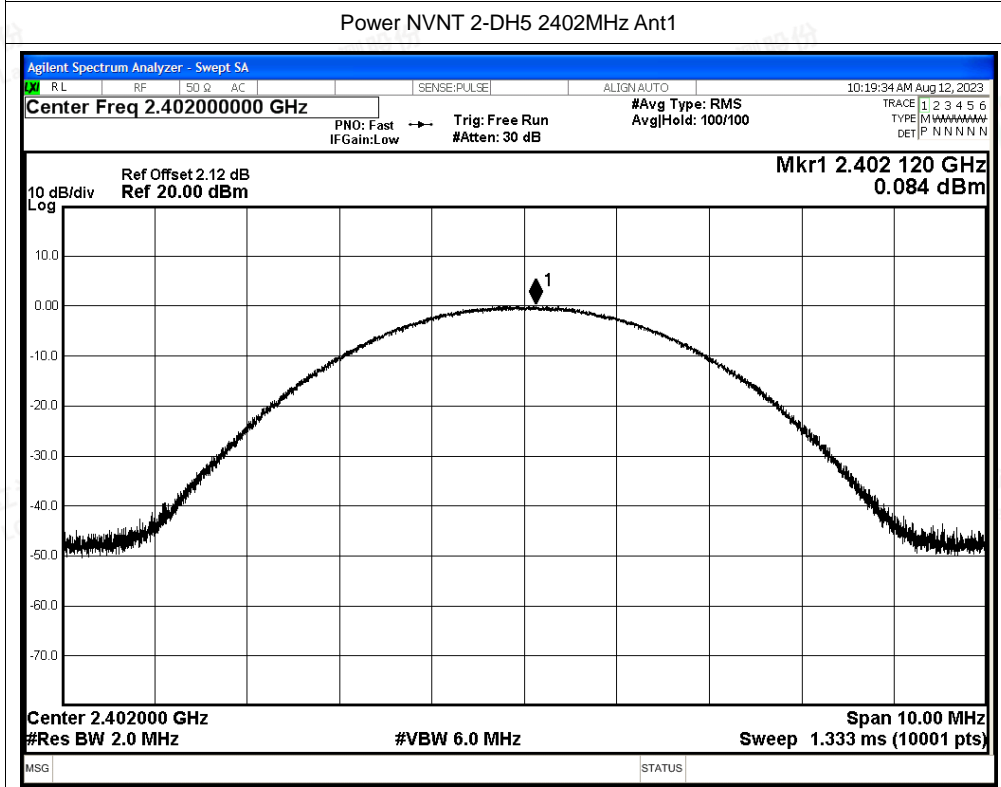
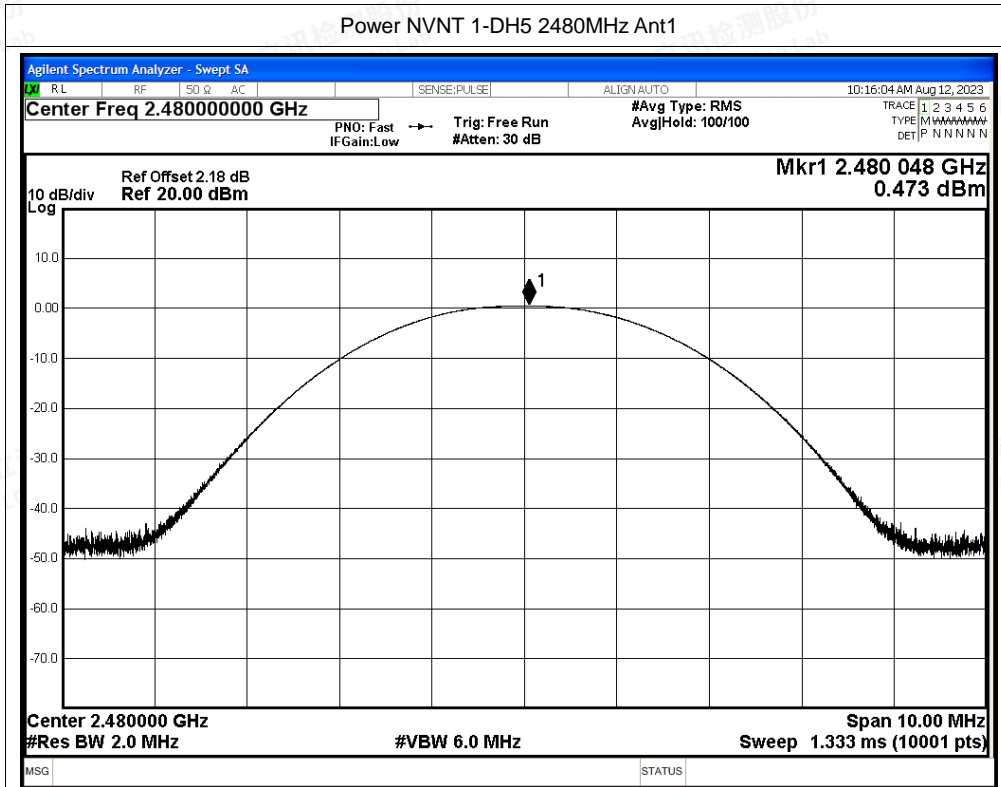
Test Graphs

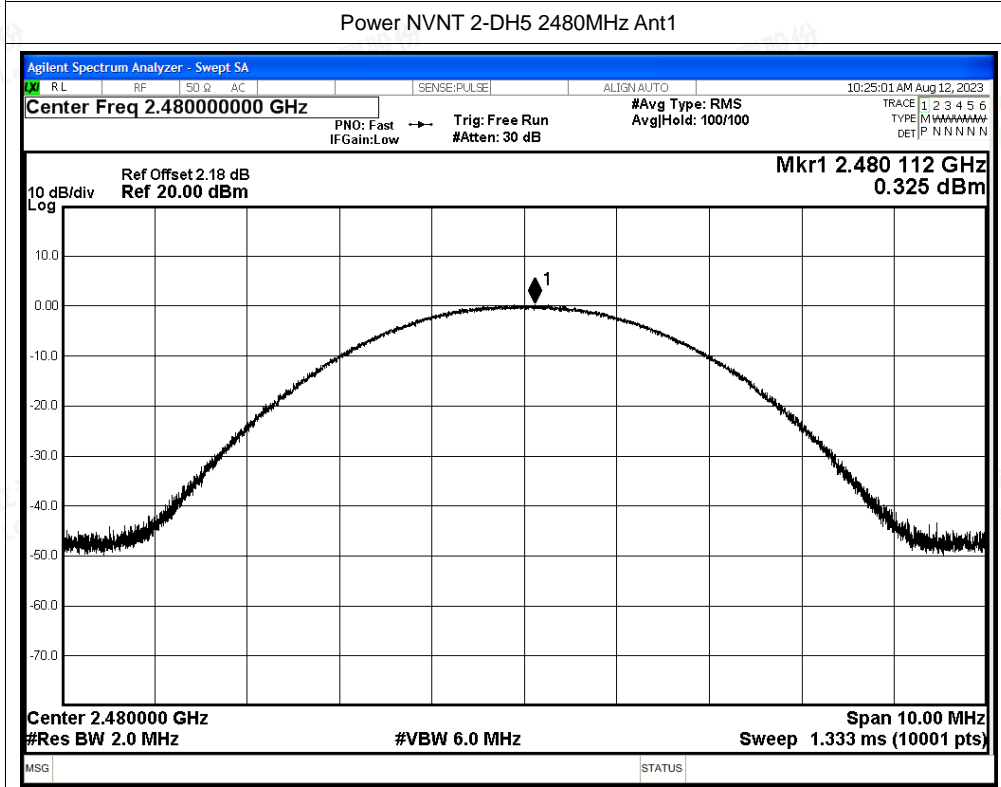
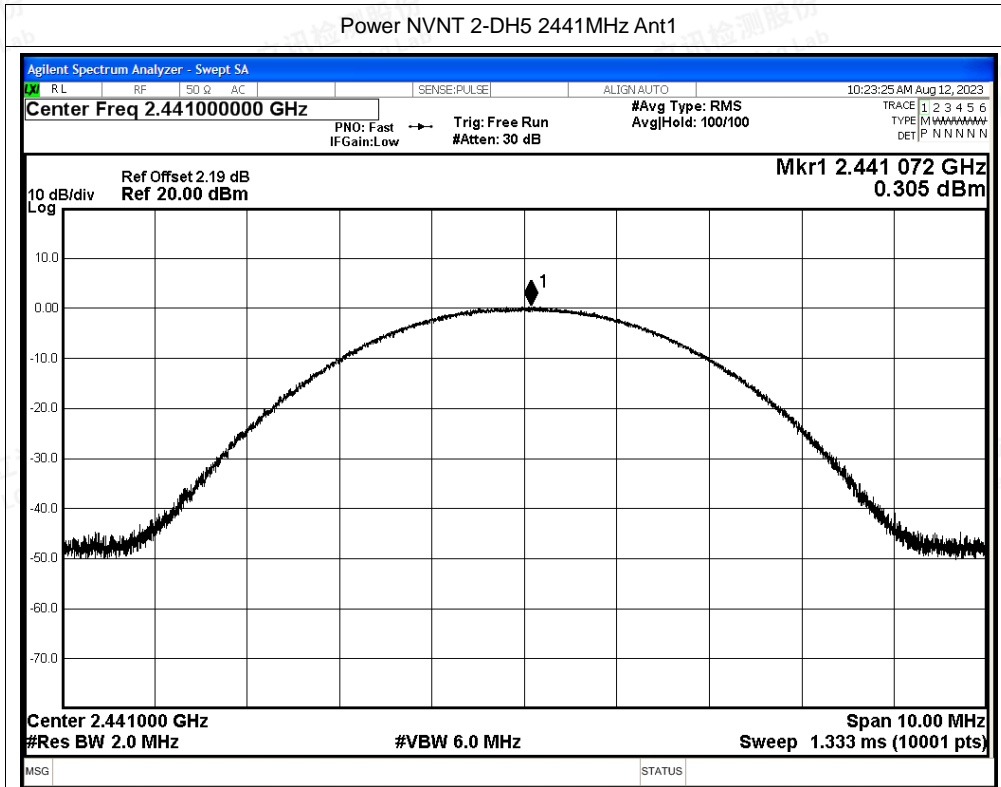
Power NVNT 1-DH5 2402MHz Ant1

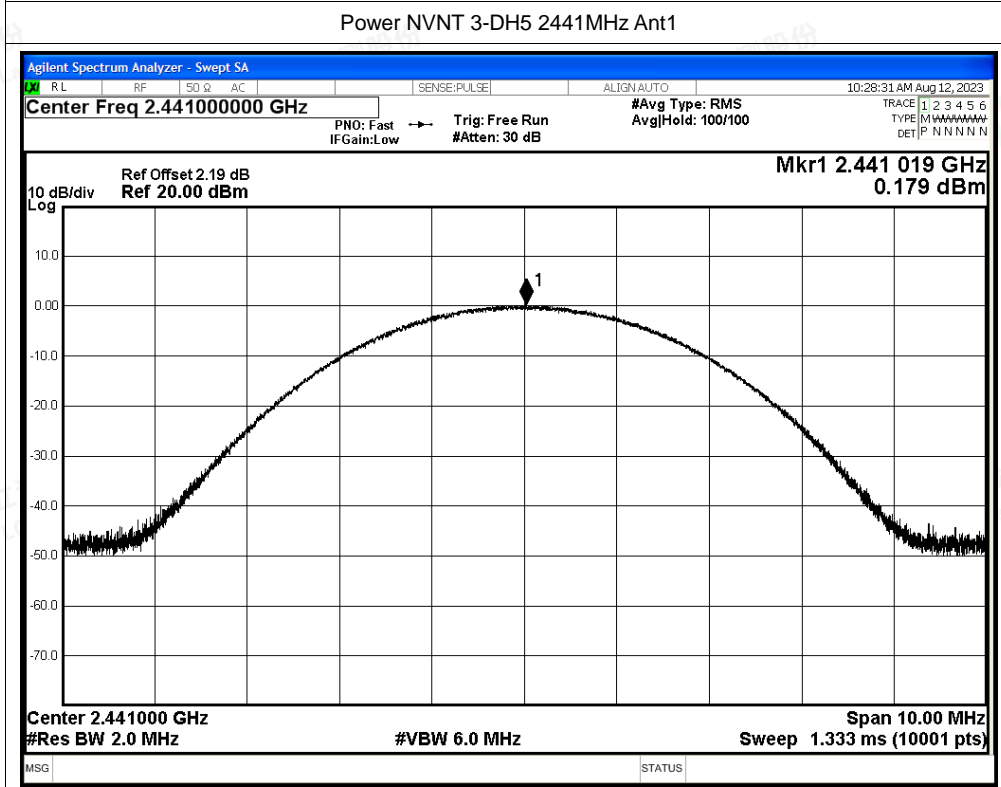
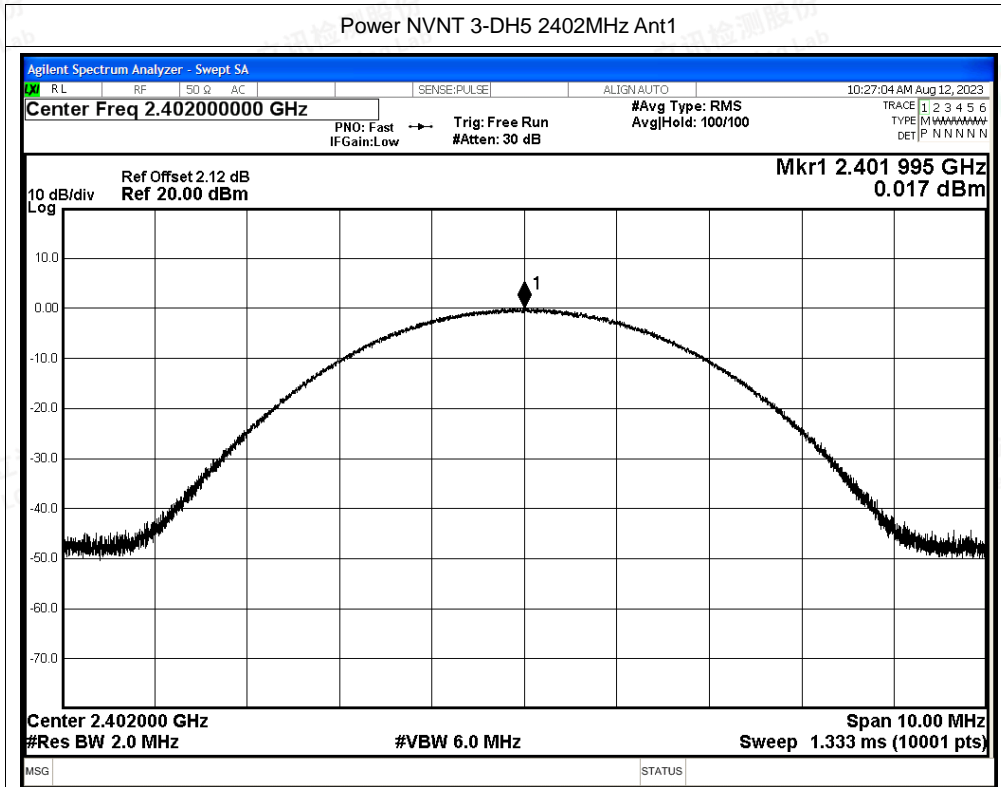


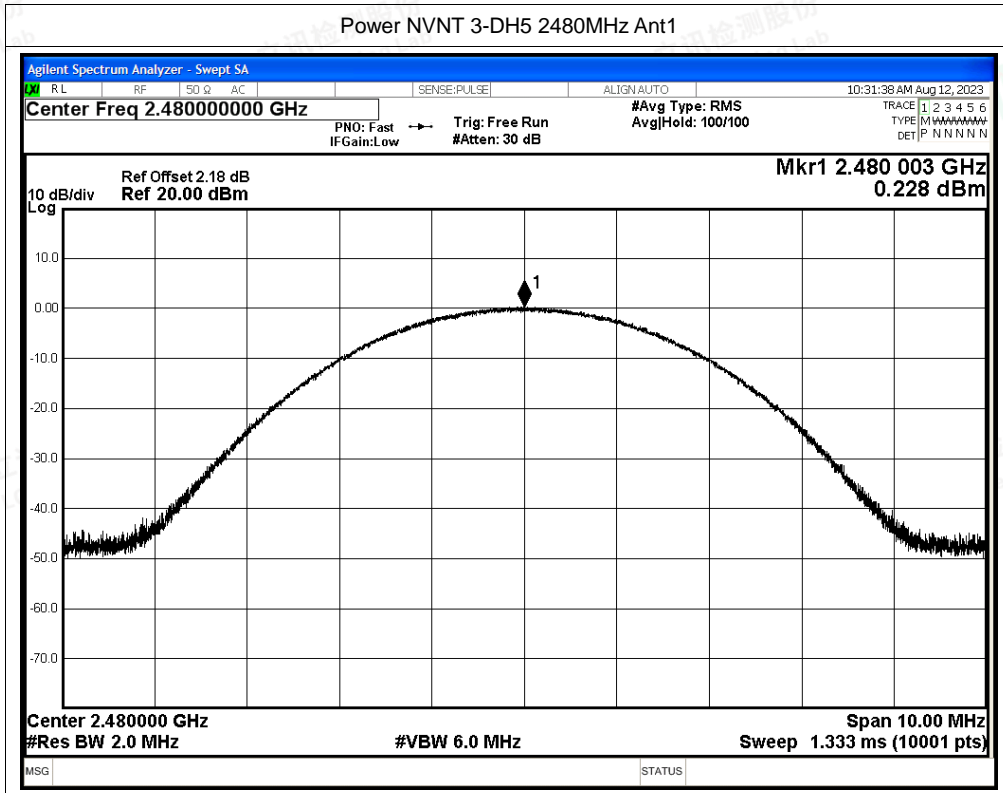
Power NVNT 1-DH5 2441MHz Ant1













A.4 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.962	2402.966	1.004	0.682	Pass
NVNT	2-DH5	Ant1	2402.008	2403.154	1.146	0.873	Pass
NVNT	3-DH5	Ant1	2402.012	2403	0.988	0.867	Pass

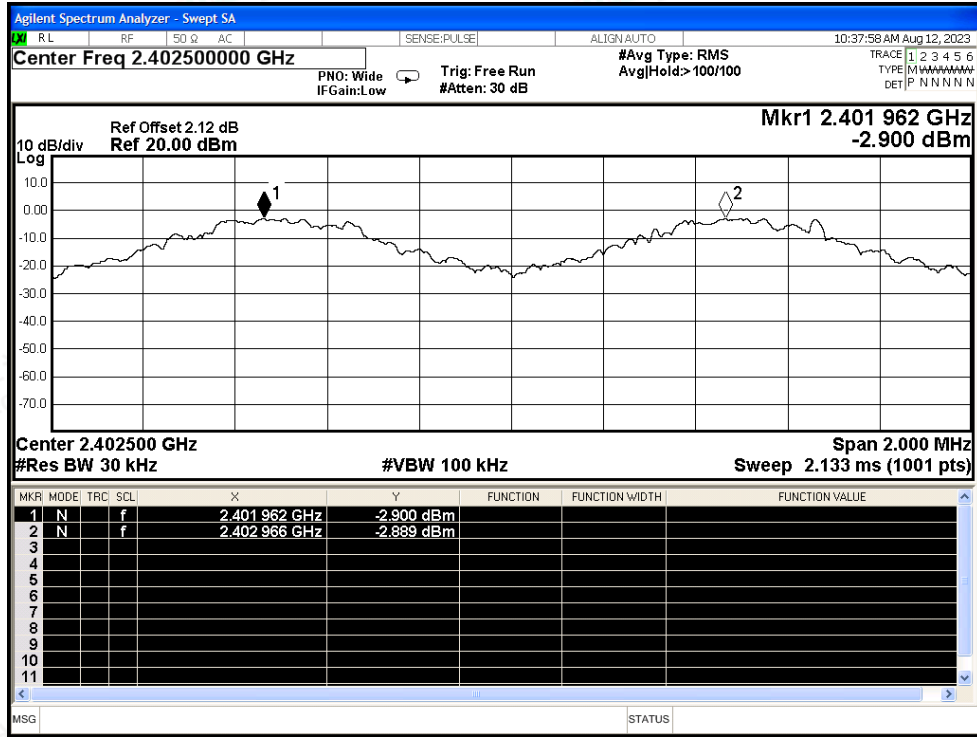


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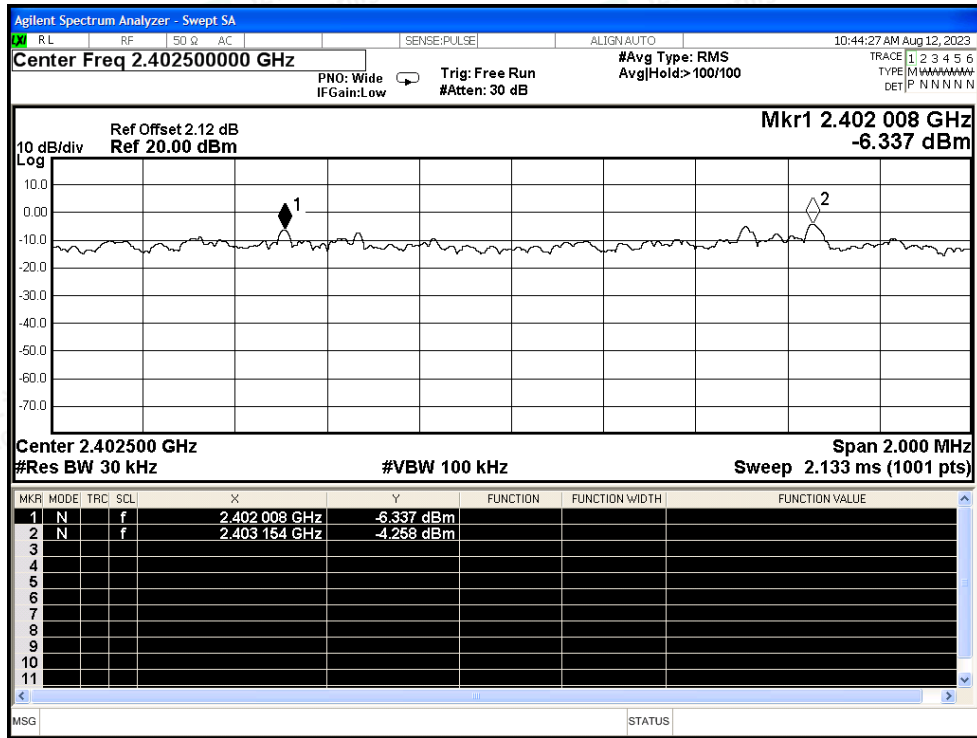


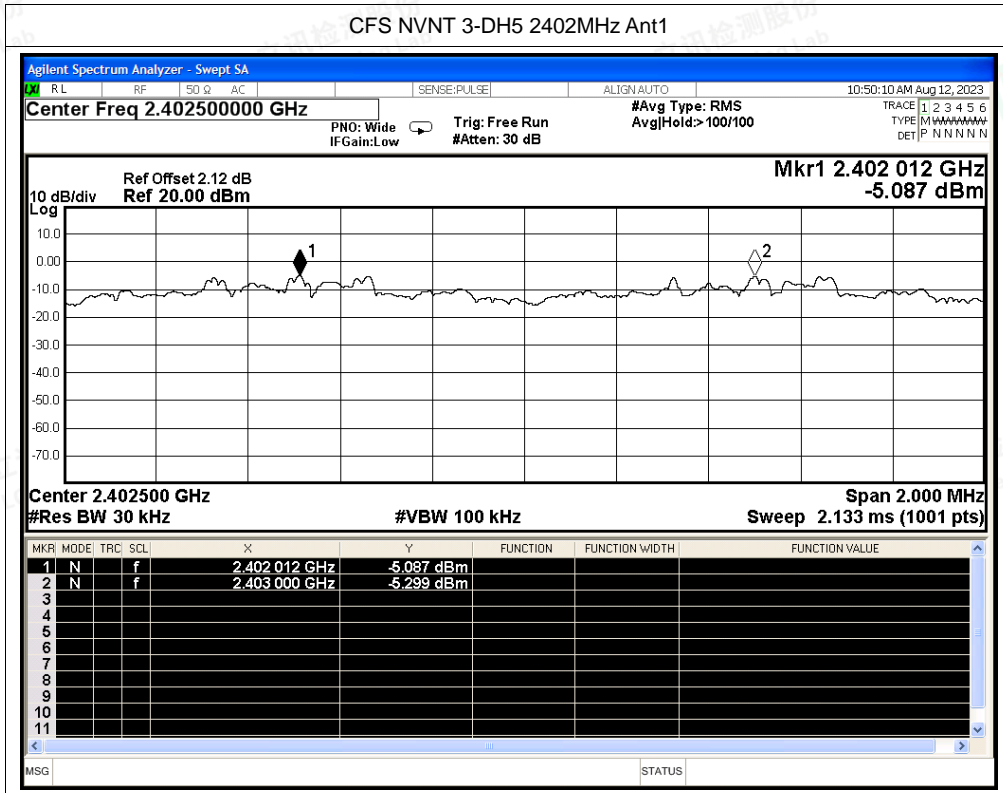
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1





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A.5 Dwell Time

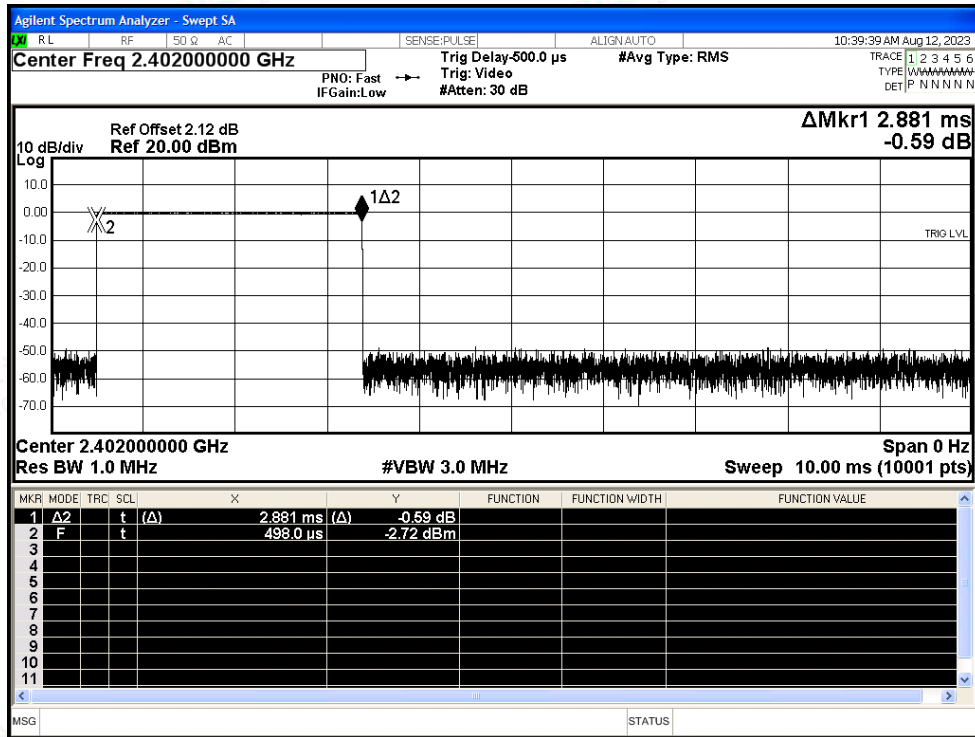
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.881	296.743	103	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	300.04	104	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	308.802	107	31600	400	Pass



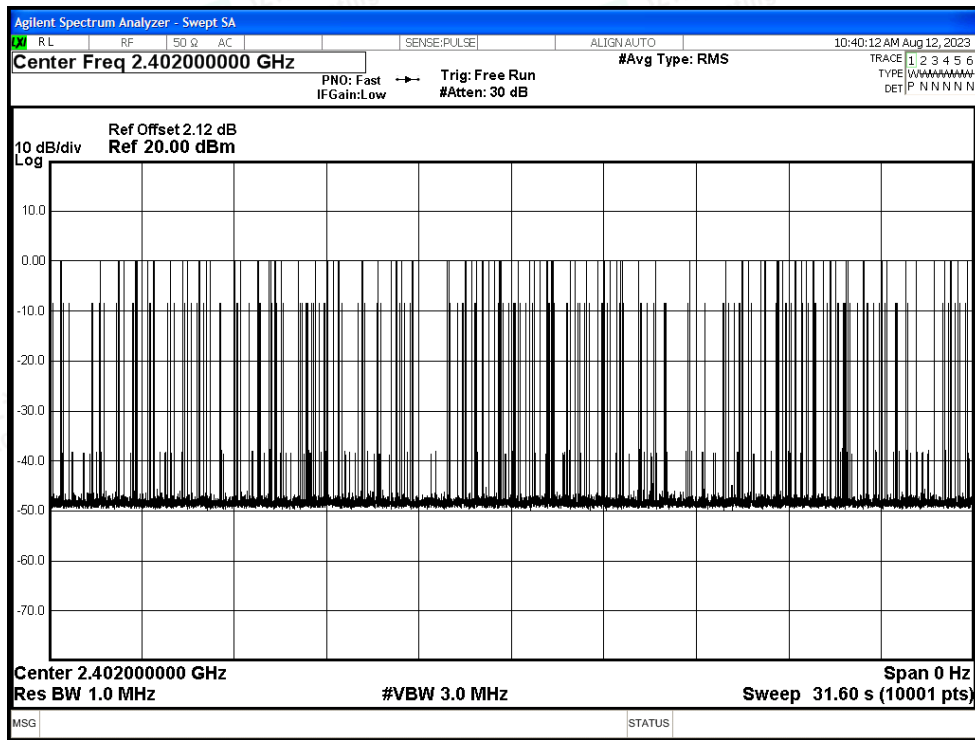


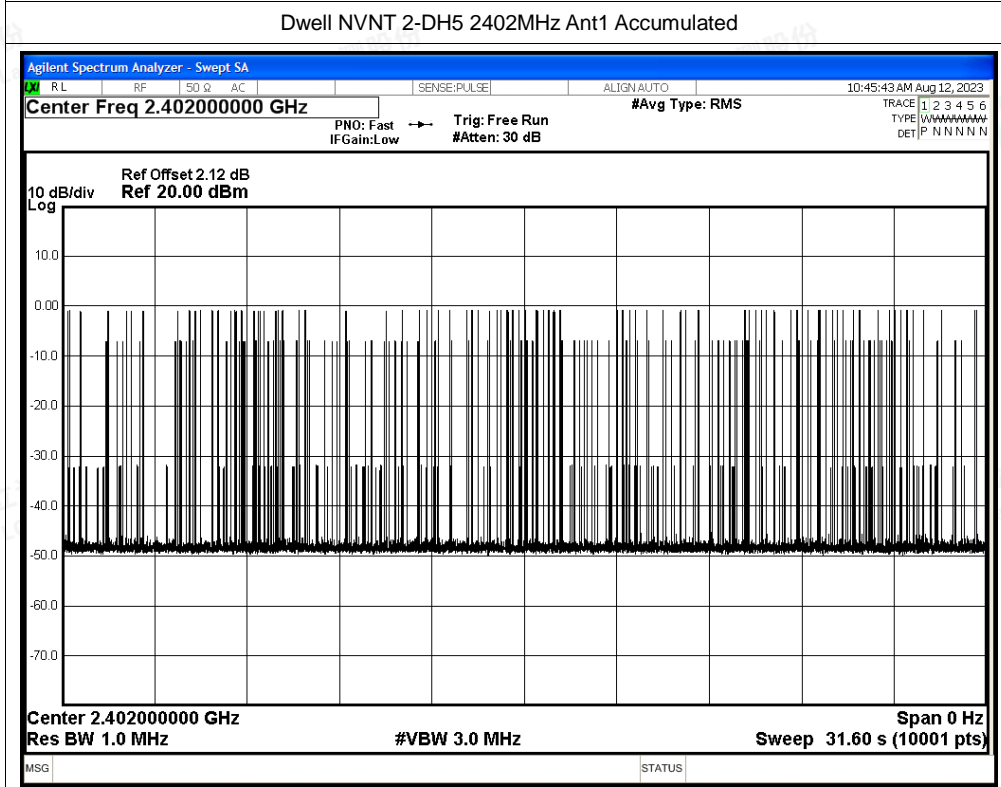
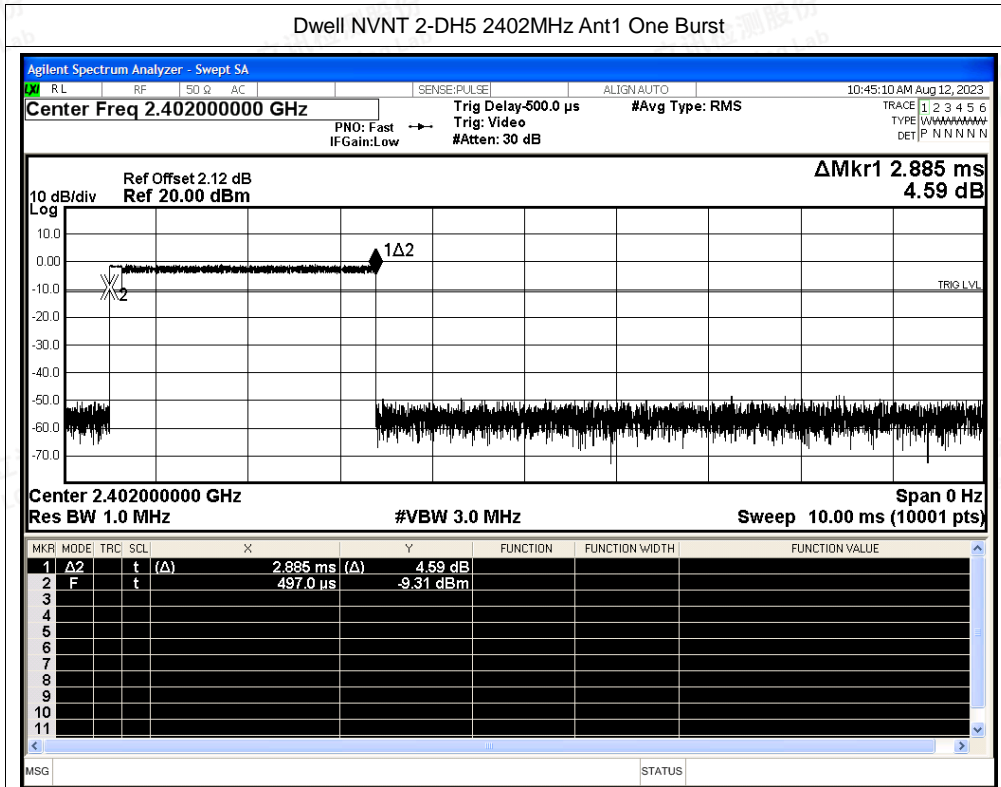
Test Graphs

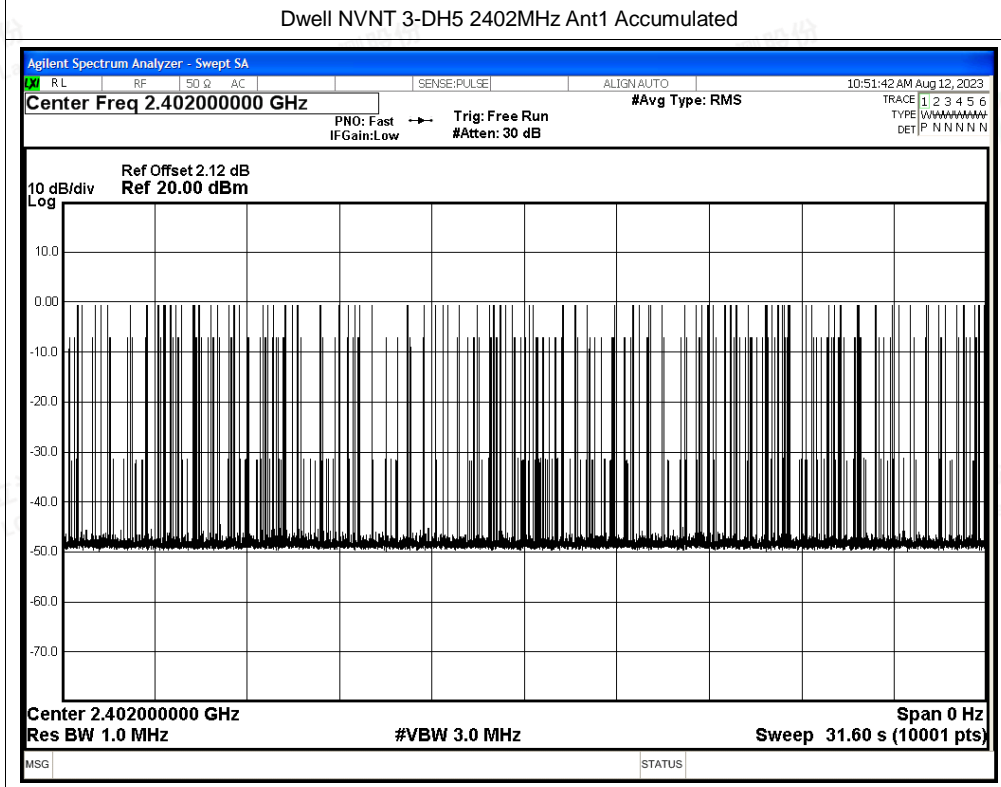
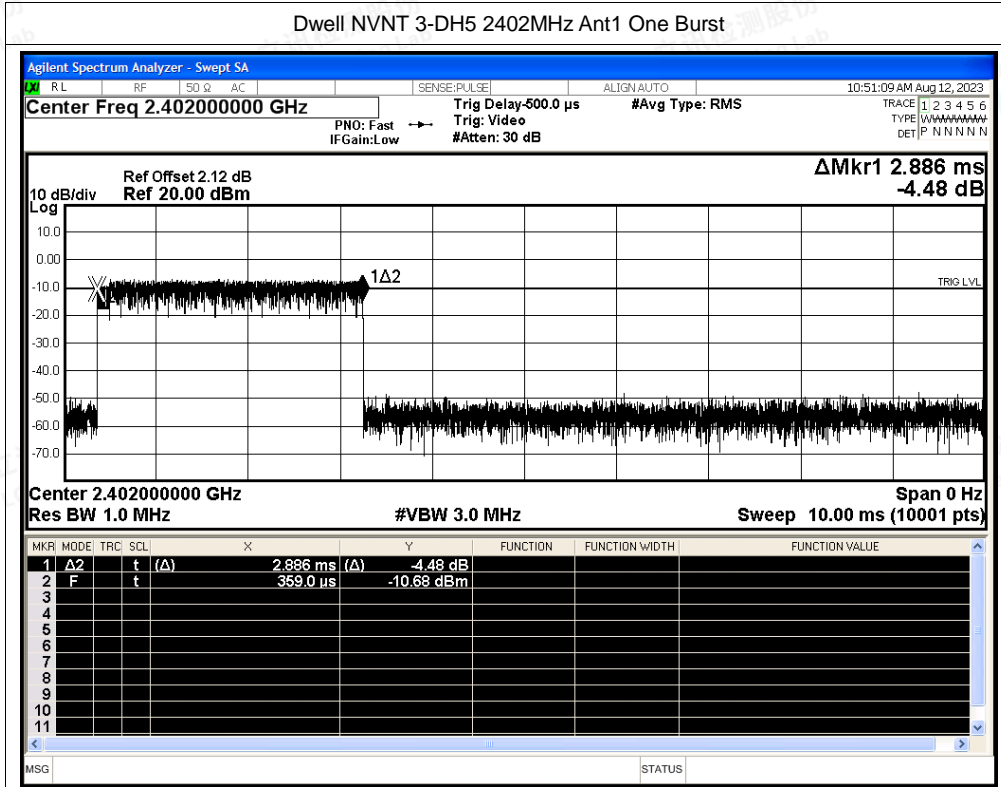
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated









A.6 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

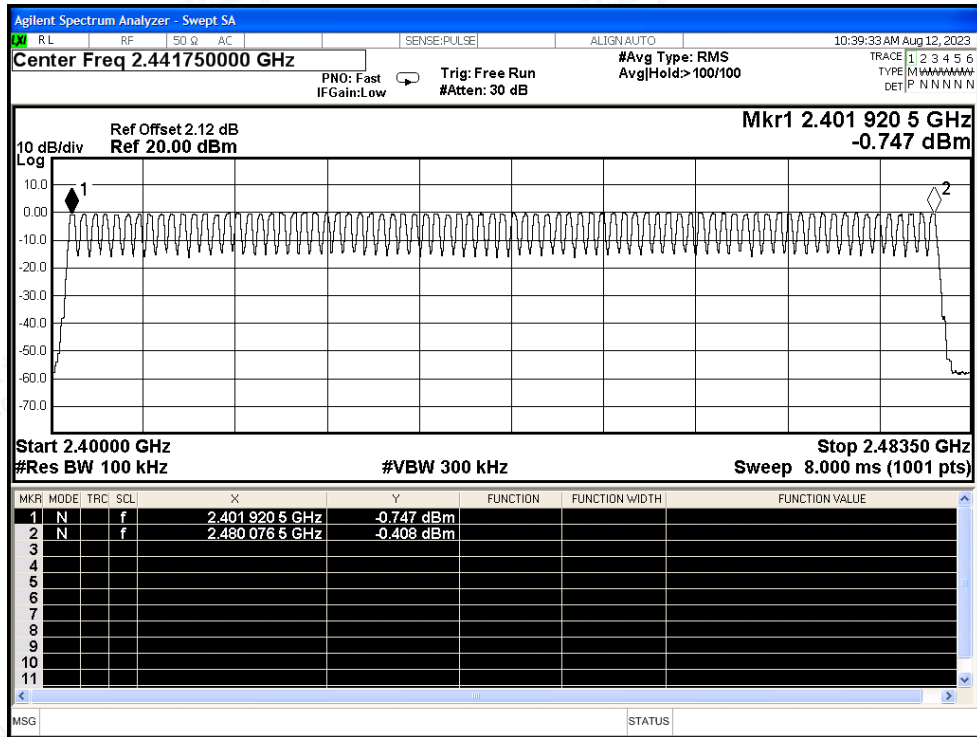


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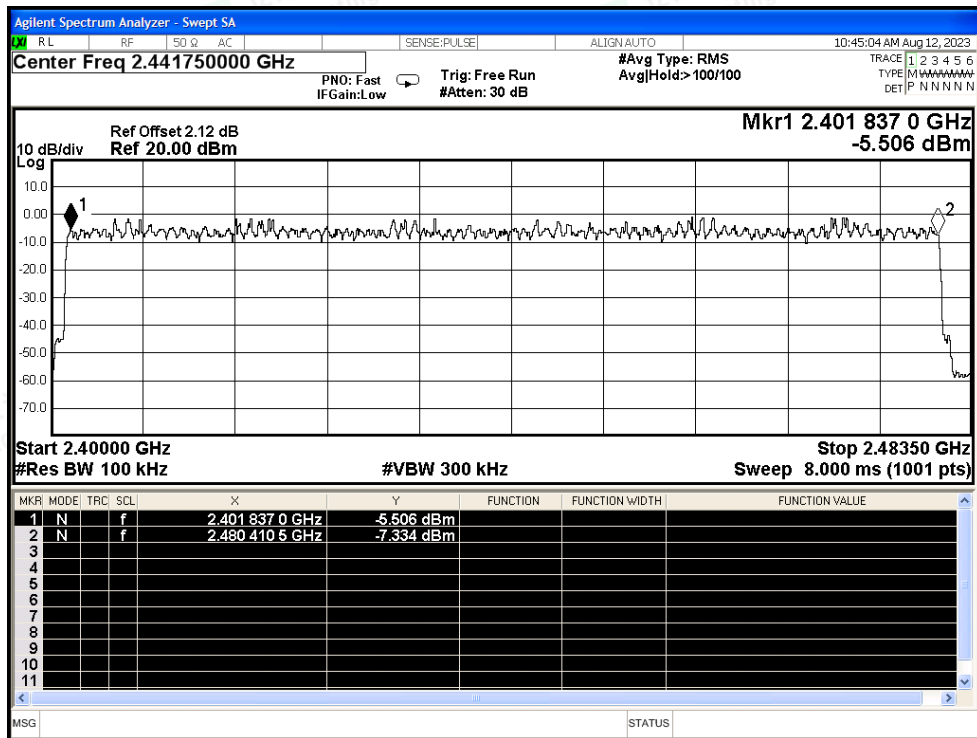


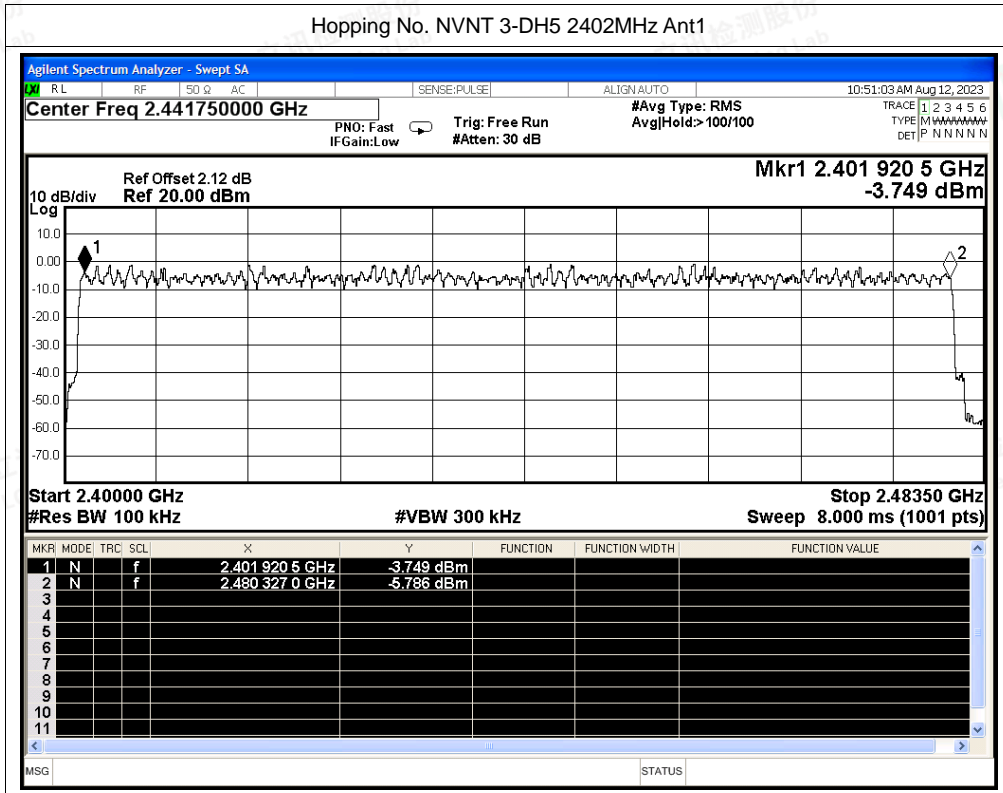
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.7 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.44	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.79	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.1	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.58	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.12	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.38	-20	Pass

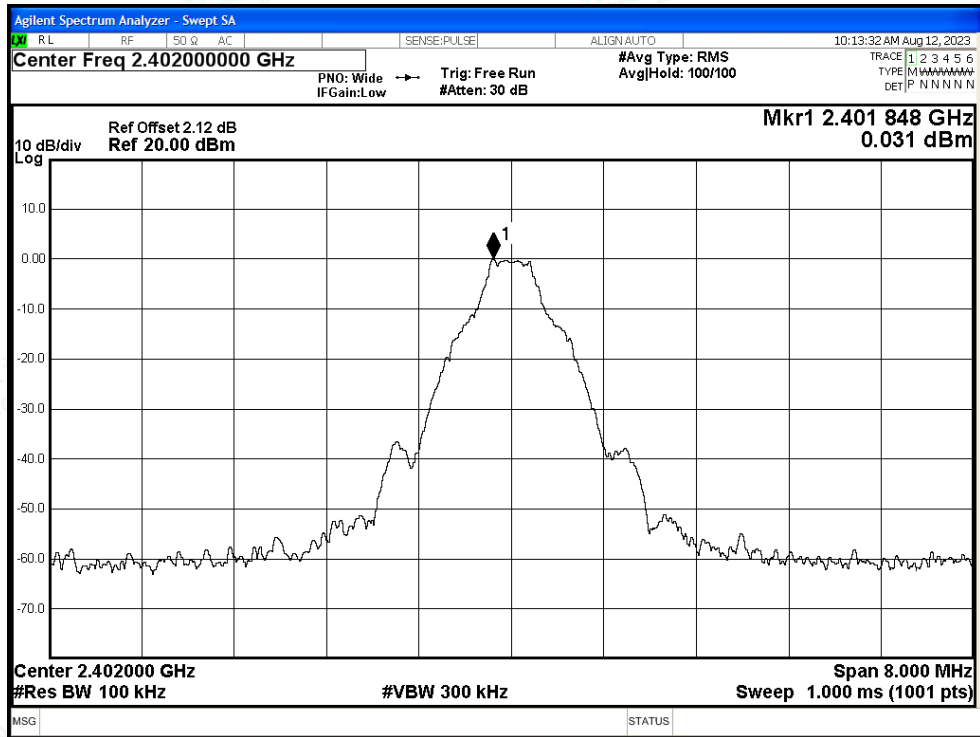


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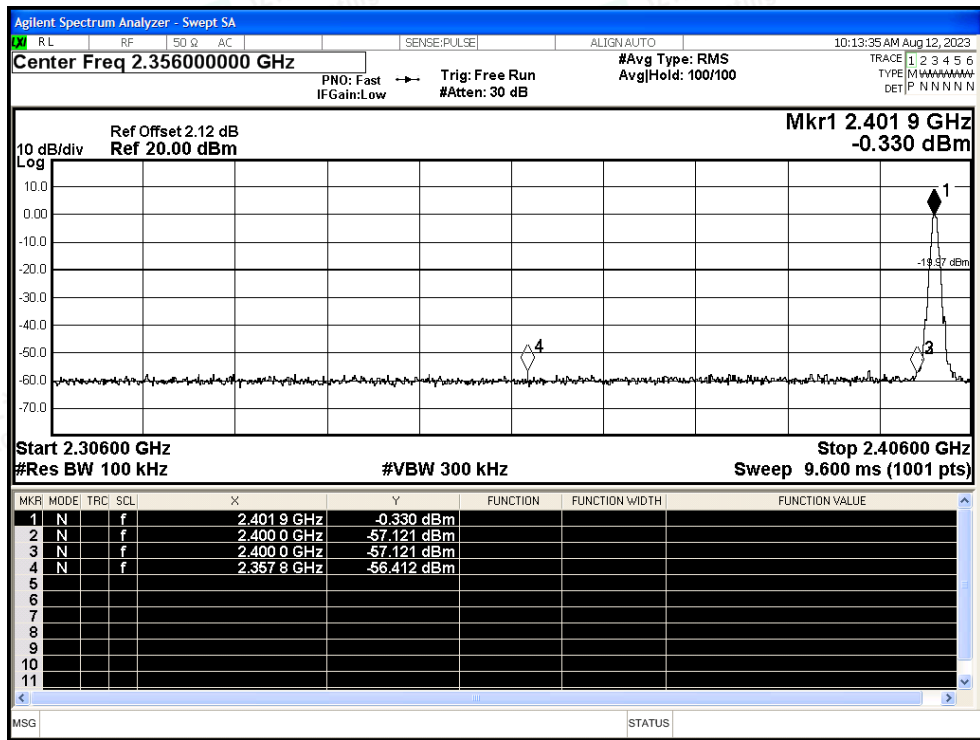


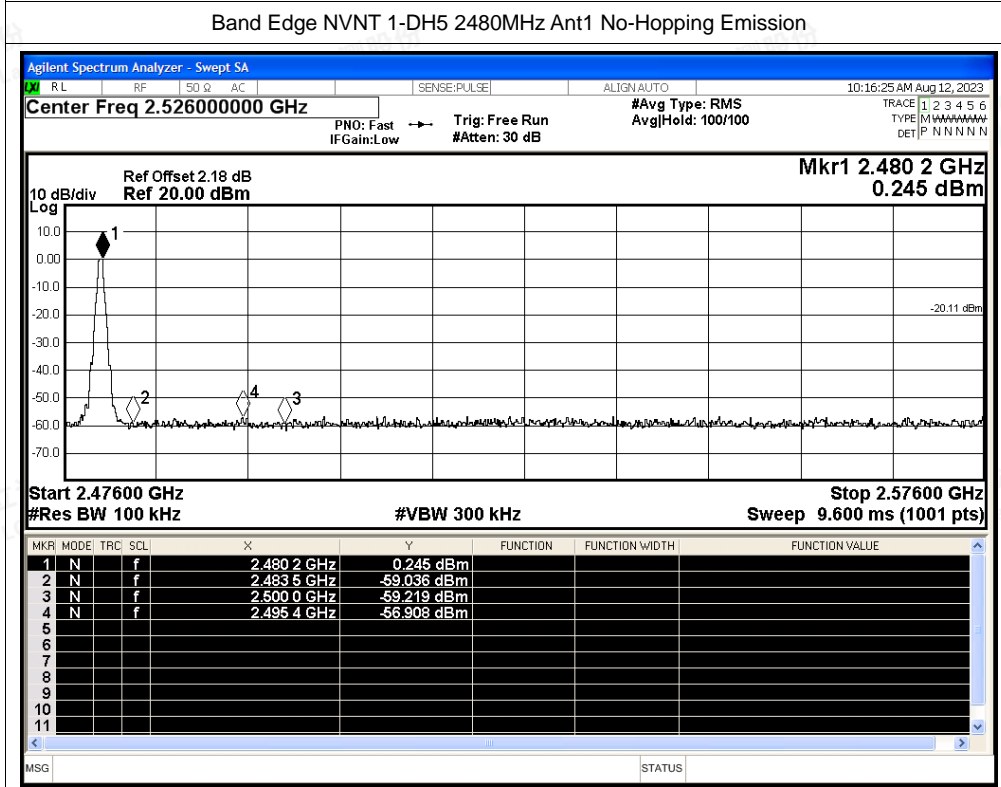
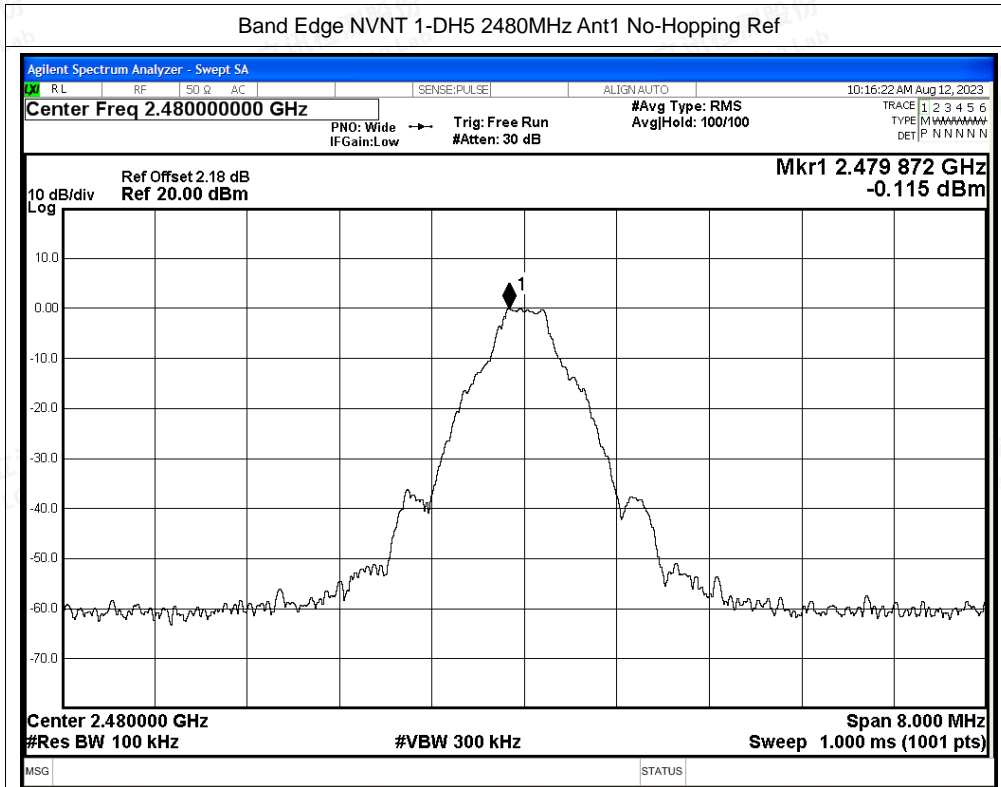
Test Graphs

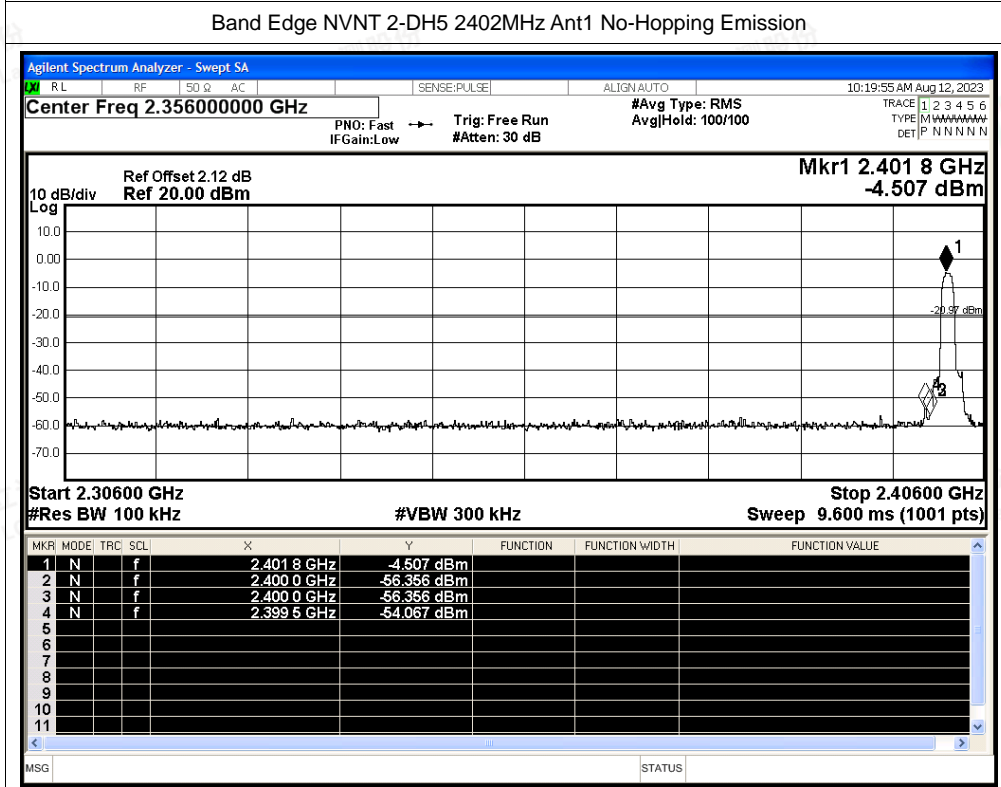
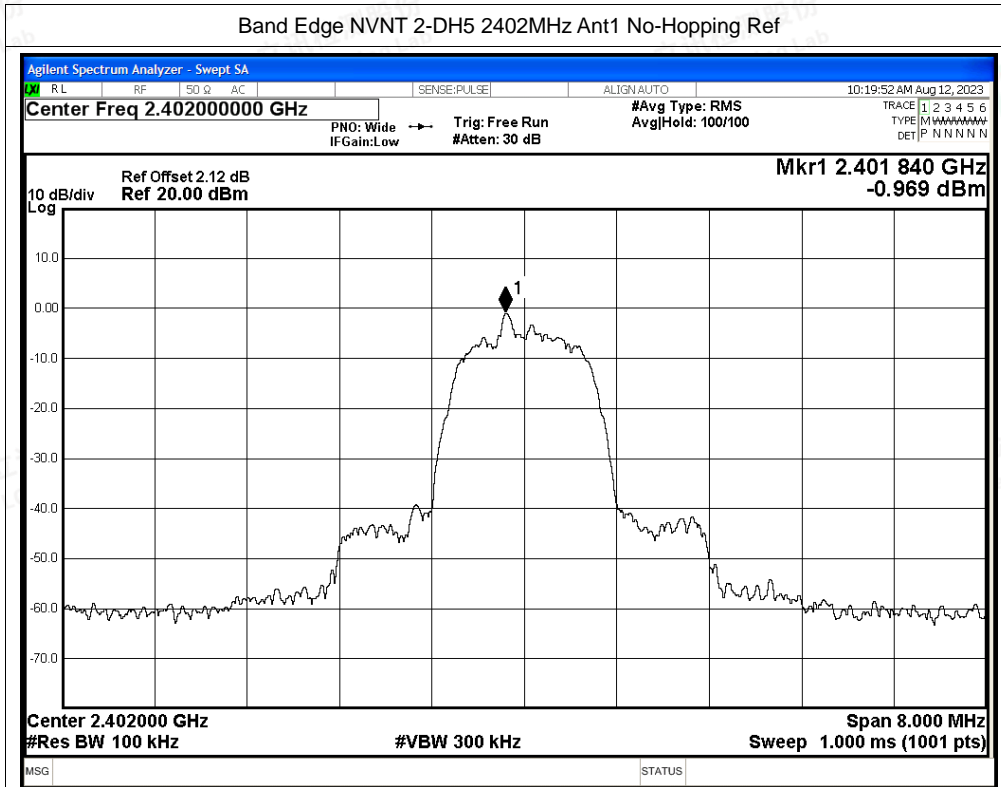
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

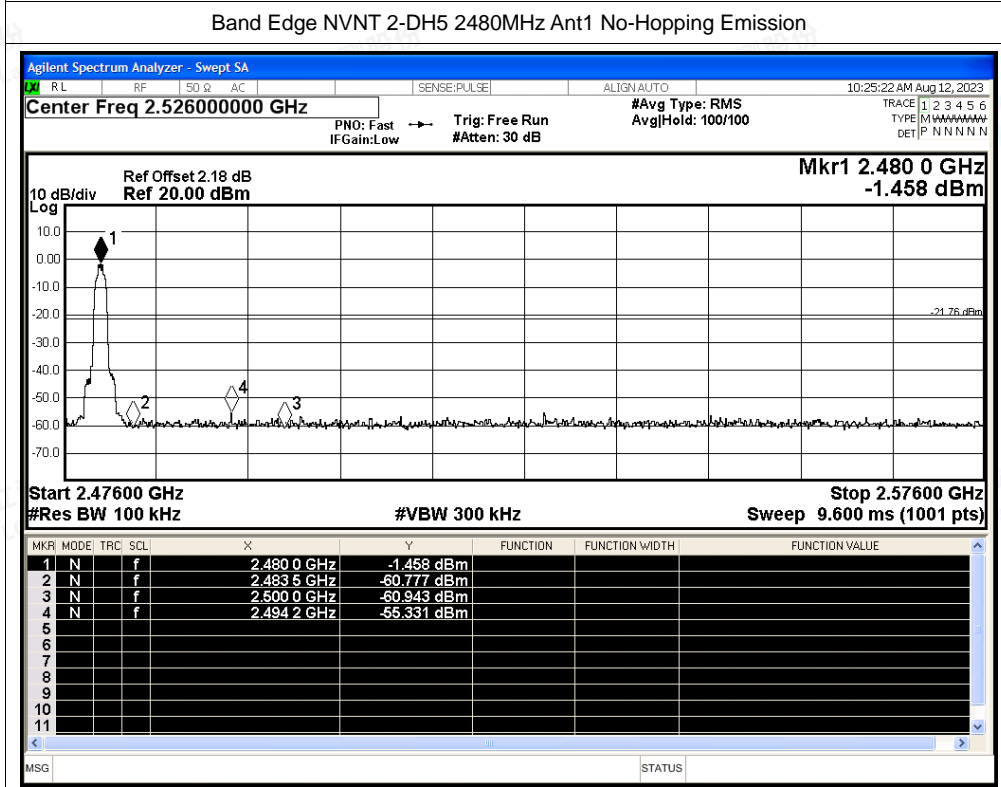
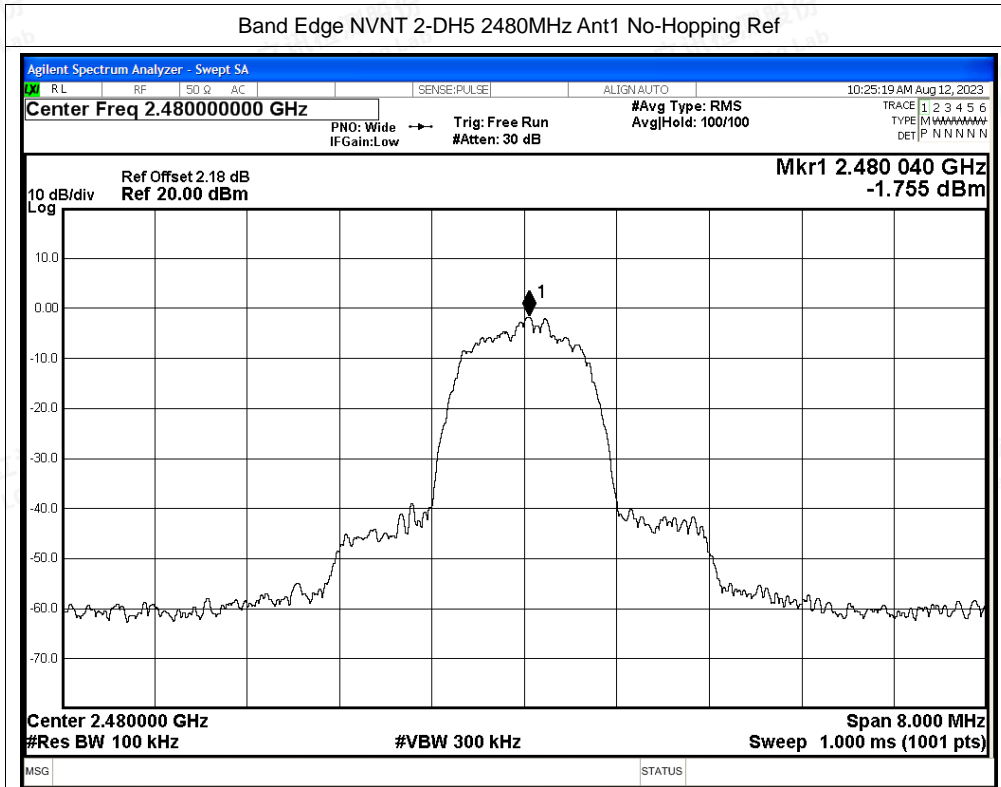


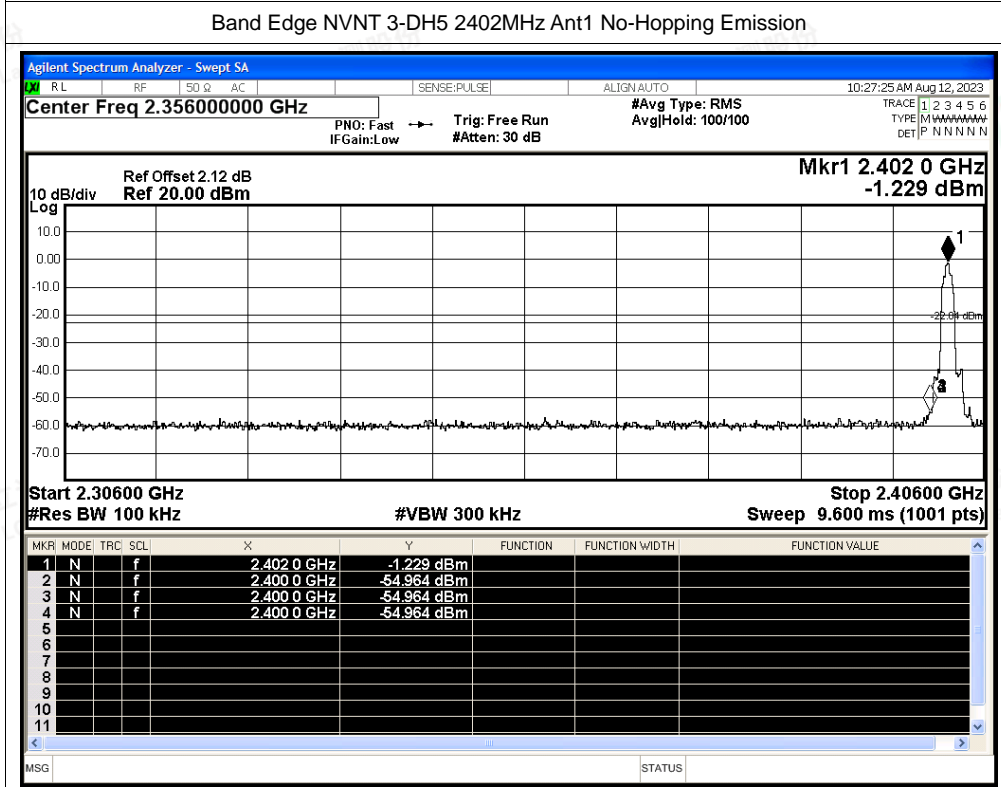
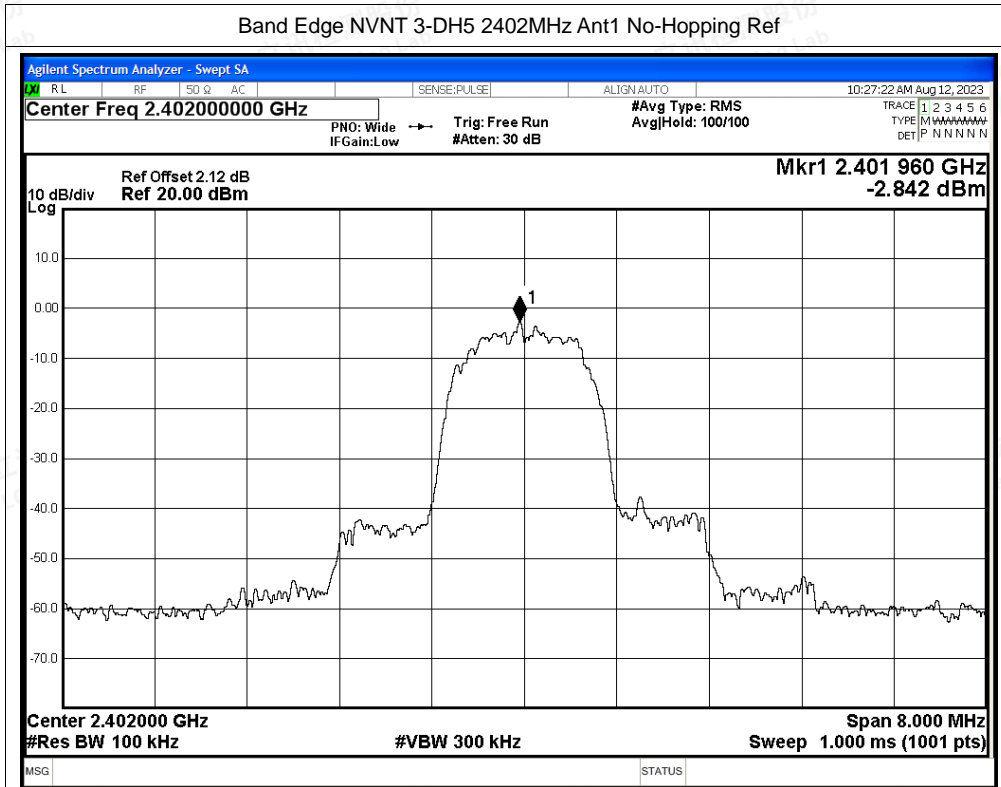
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

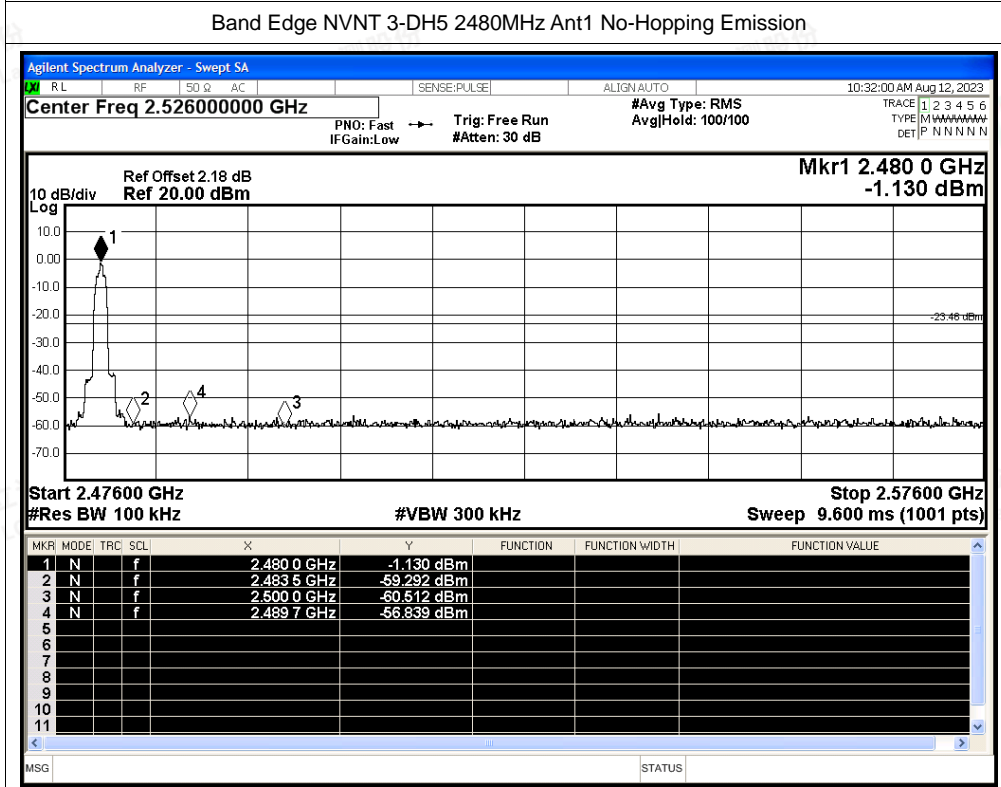
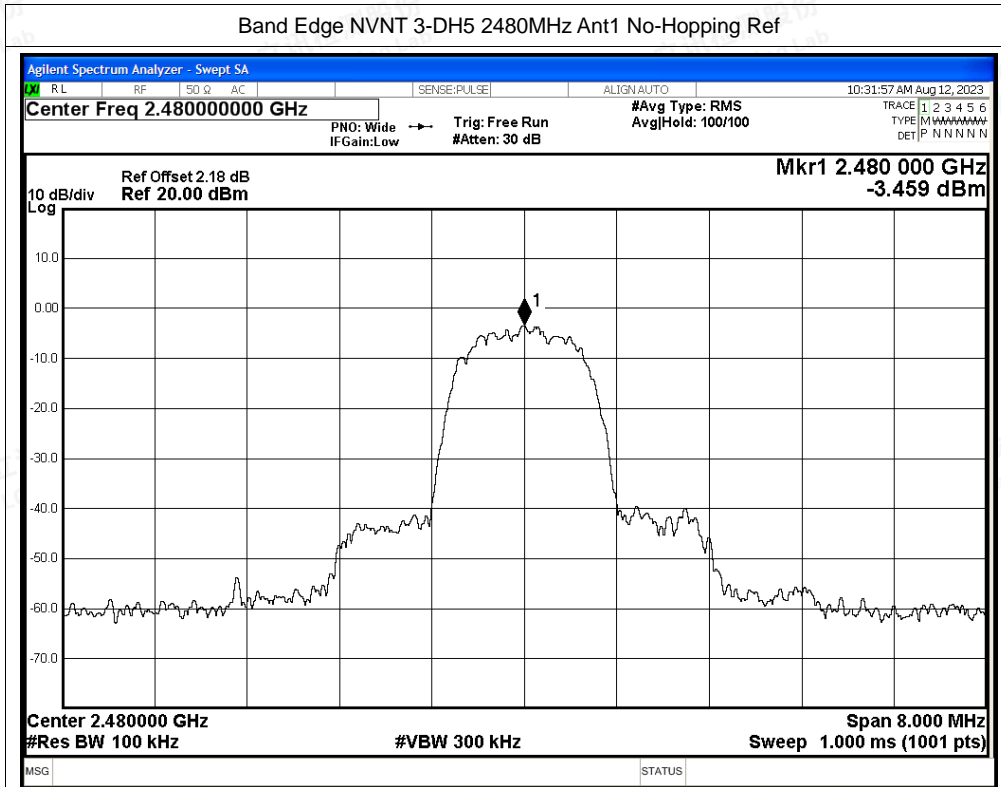














(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-54.72	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.95	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.07	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.76	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.62	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.33	-20	Pass

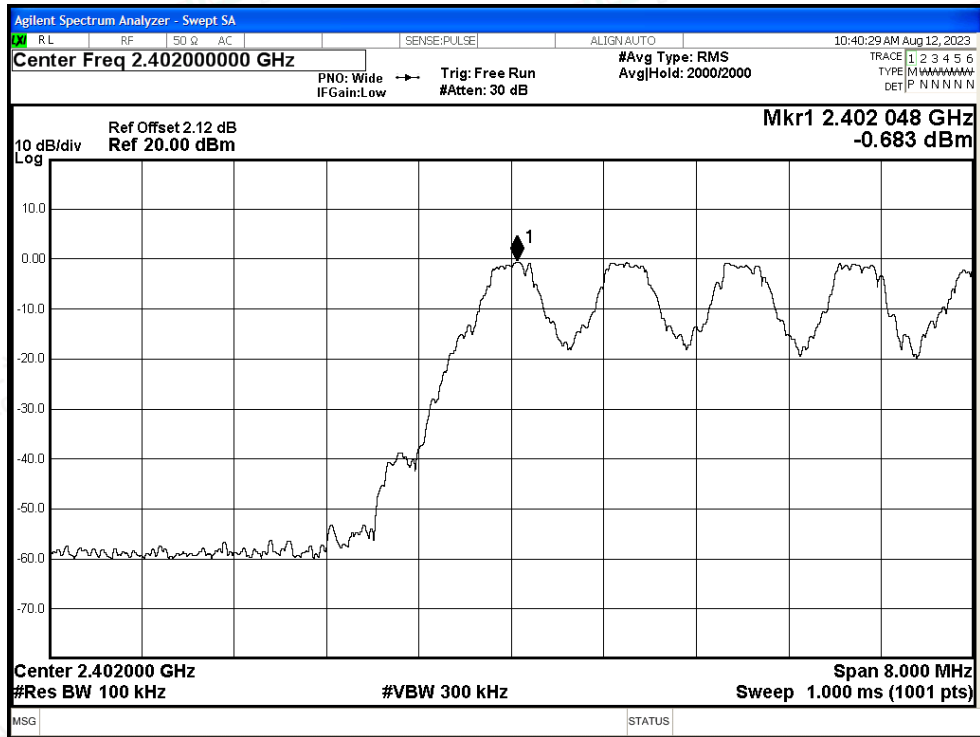


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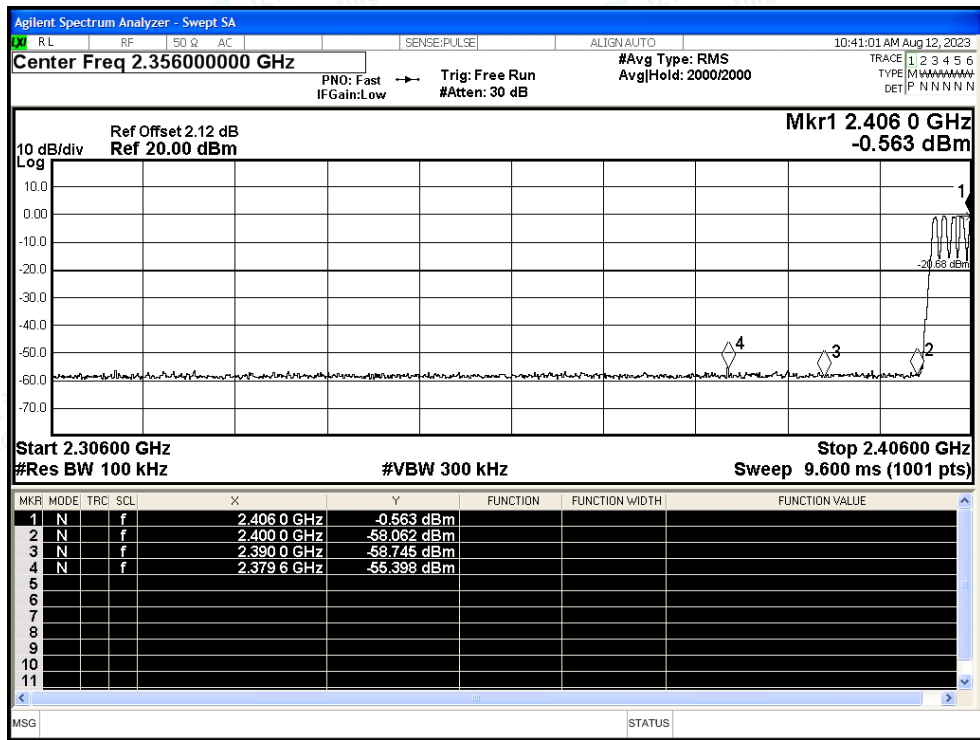


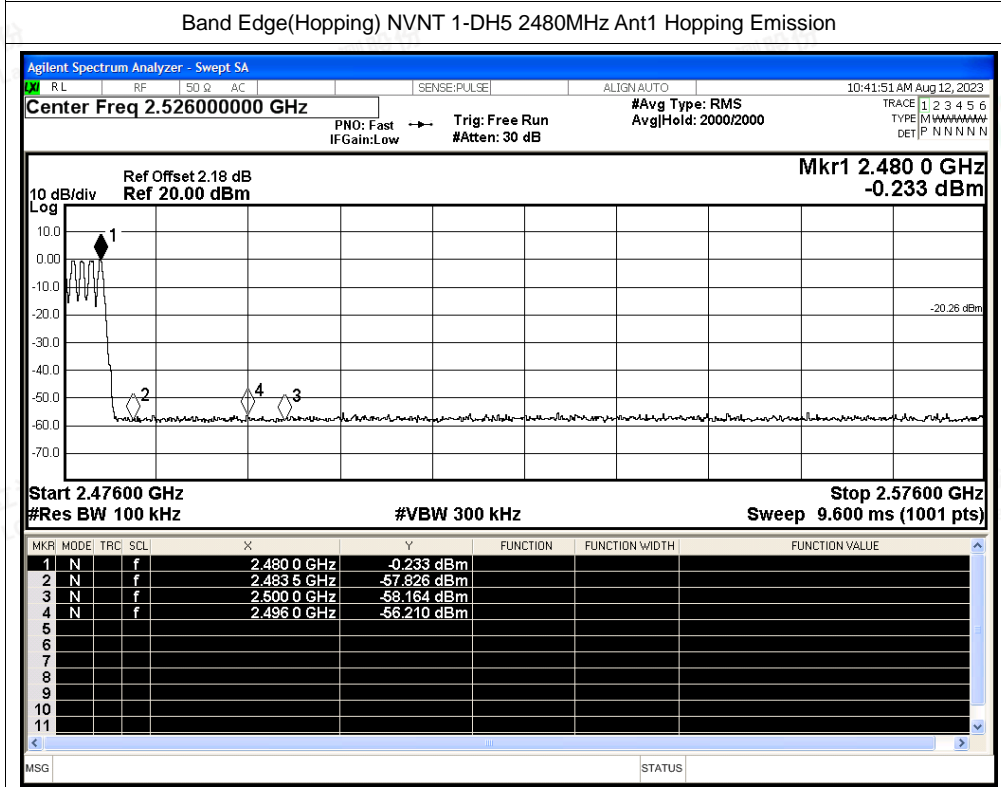
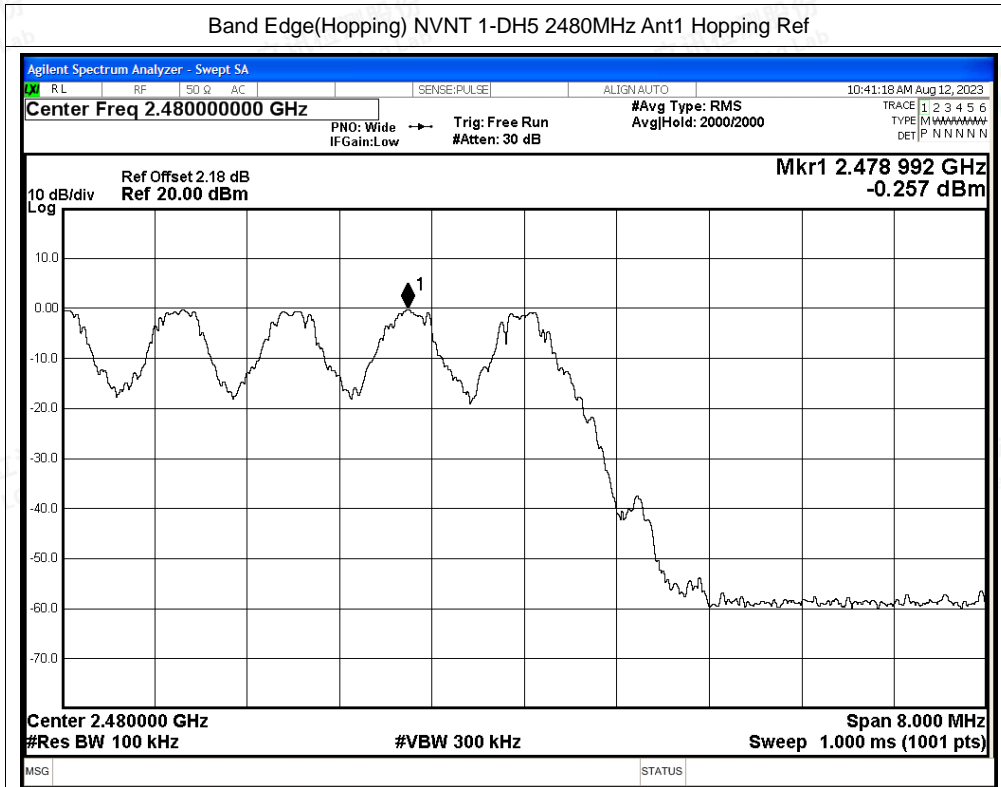
Test Graphs

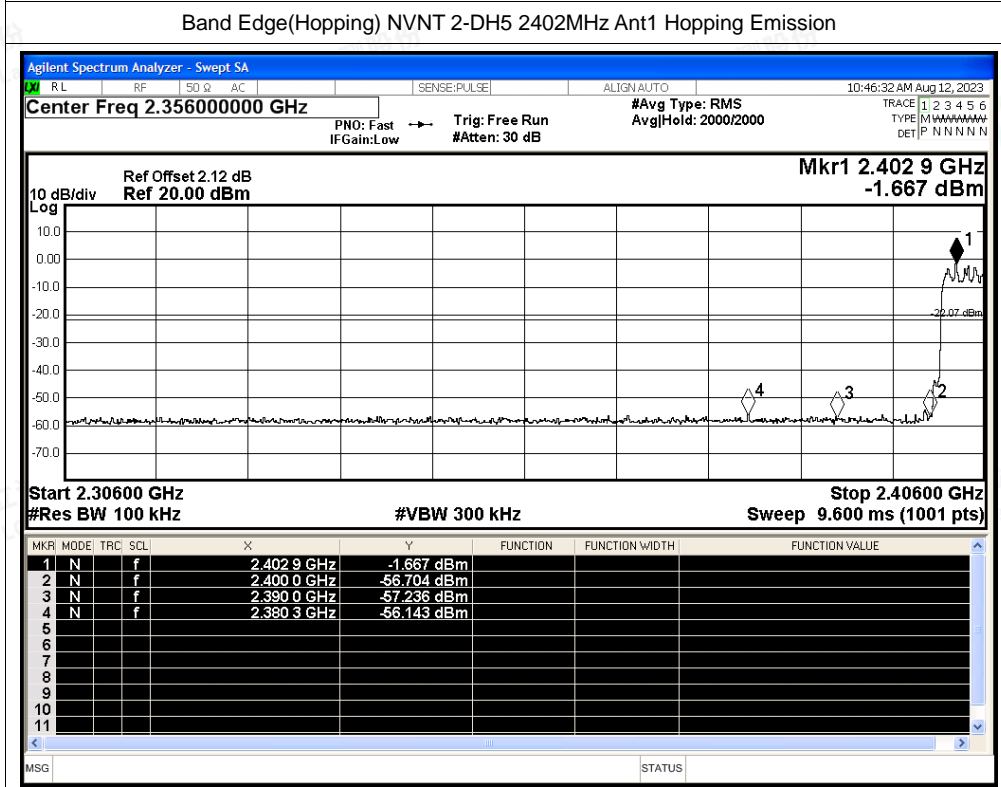
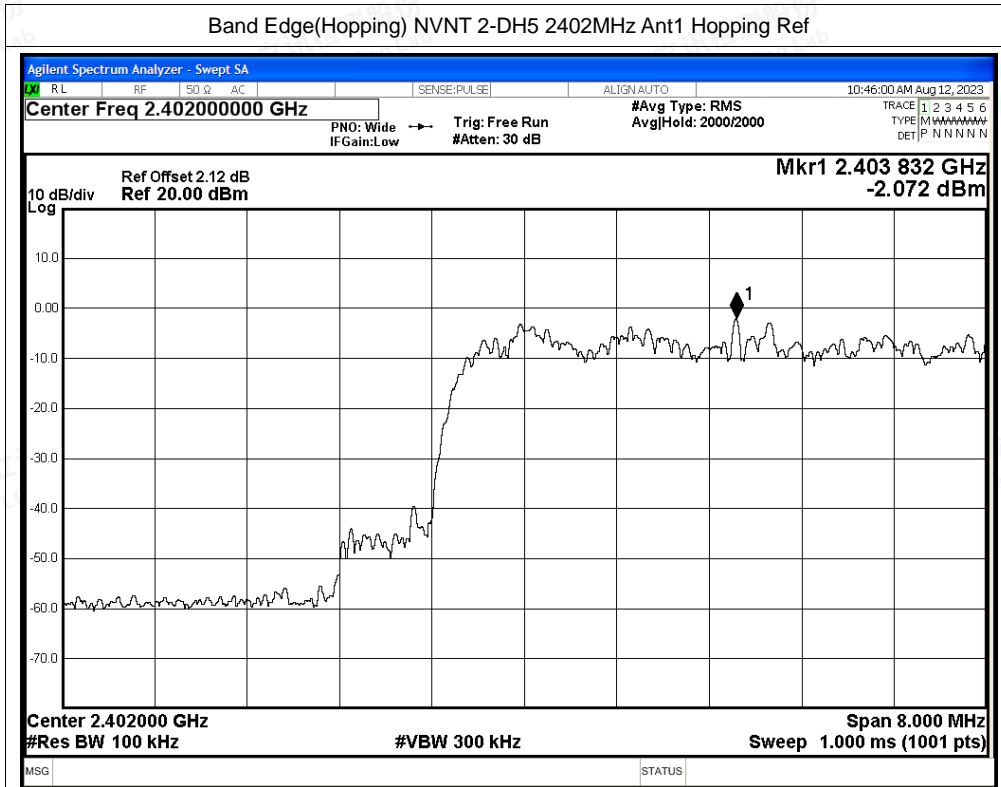
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

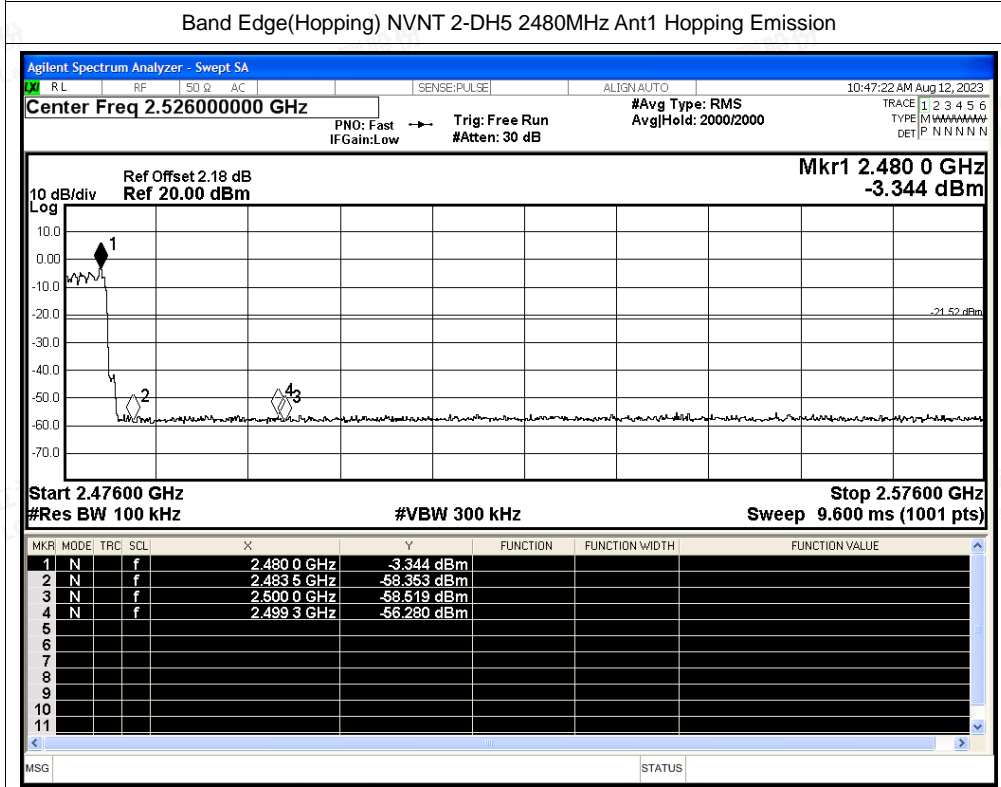
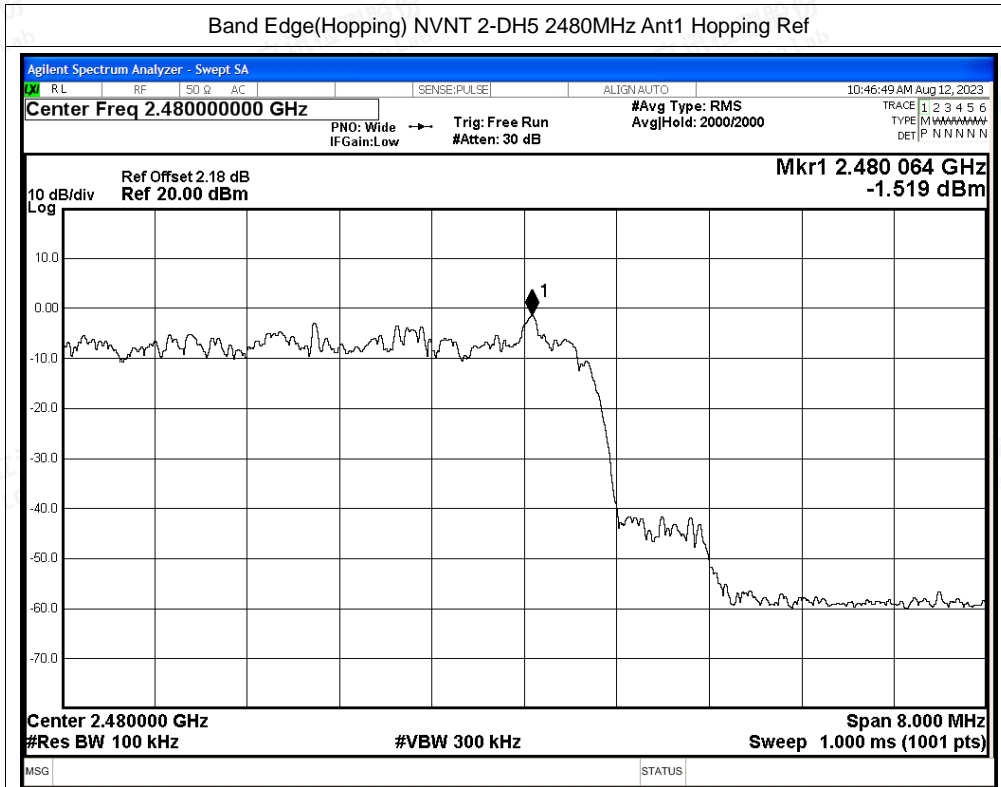


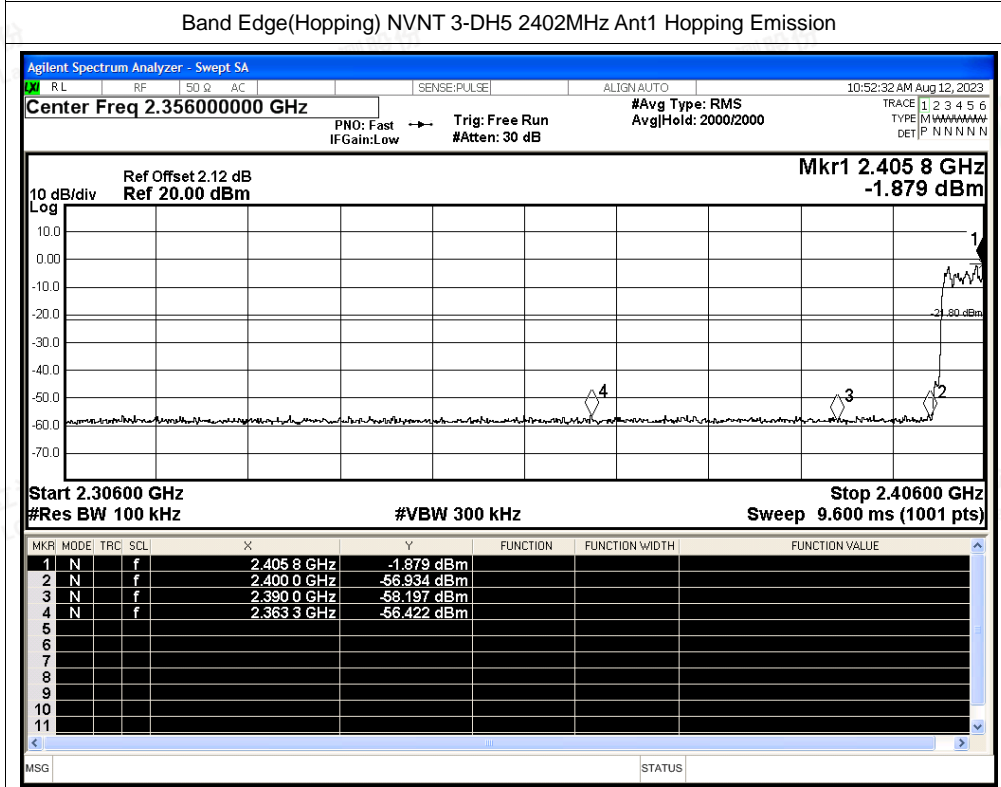
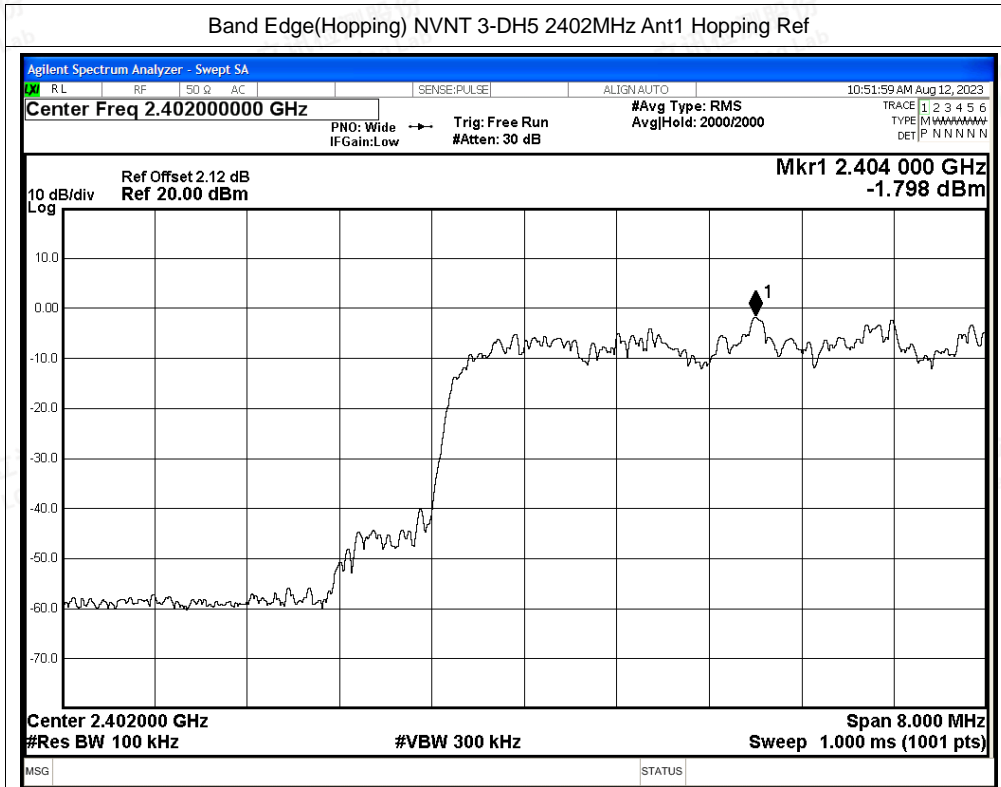
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

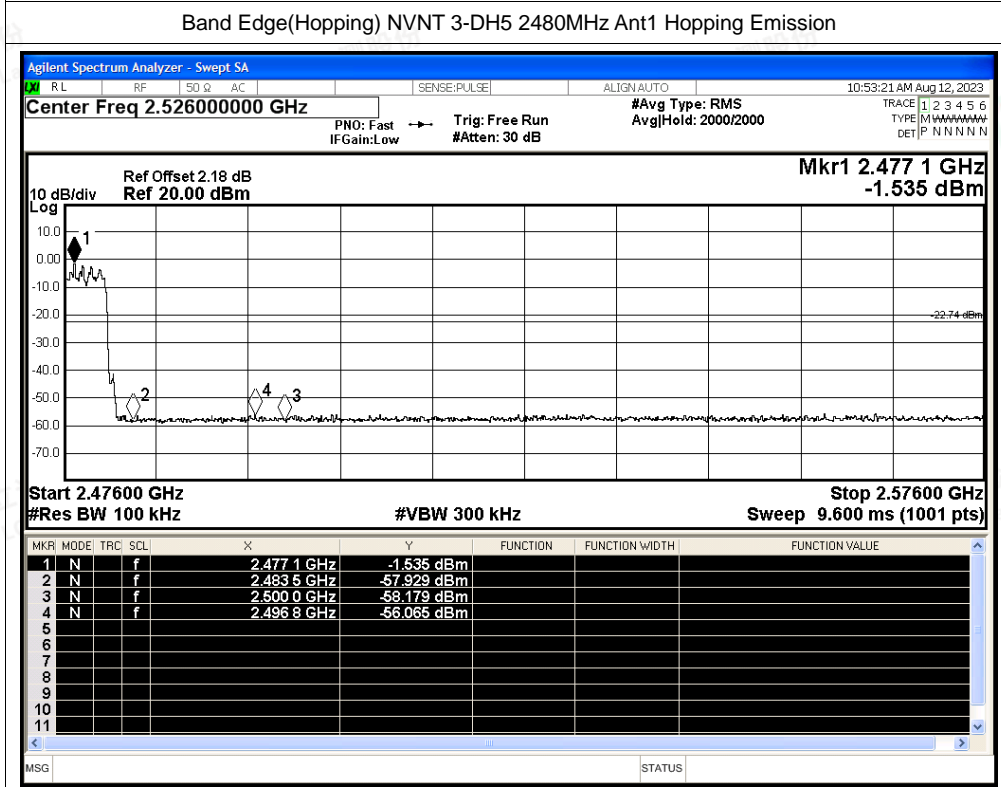
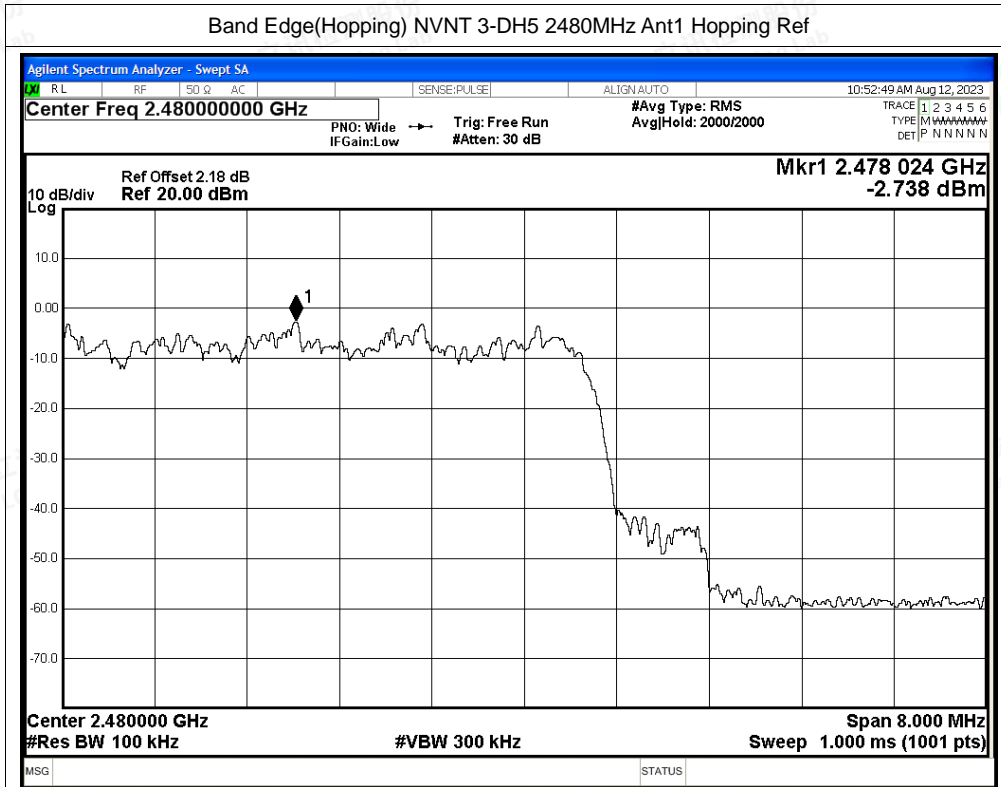














A.8 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.55	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.47	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.46	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.93	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.56	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.49	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.33	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.99	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.15	-20	Pass

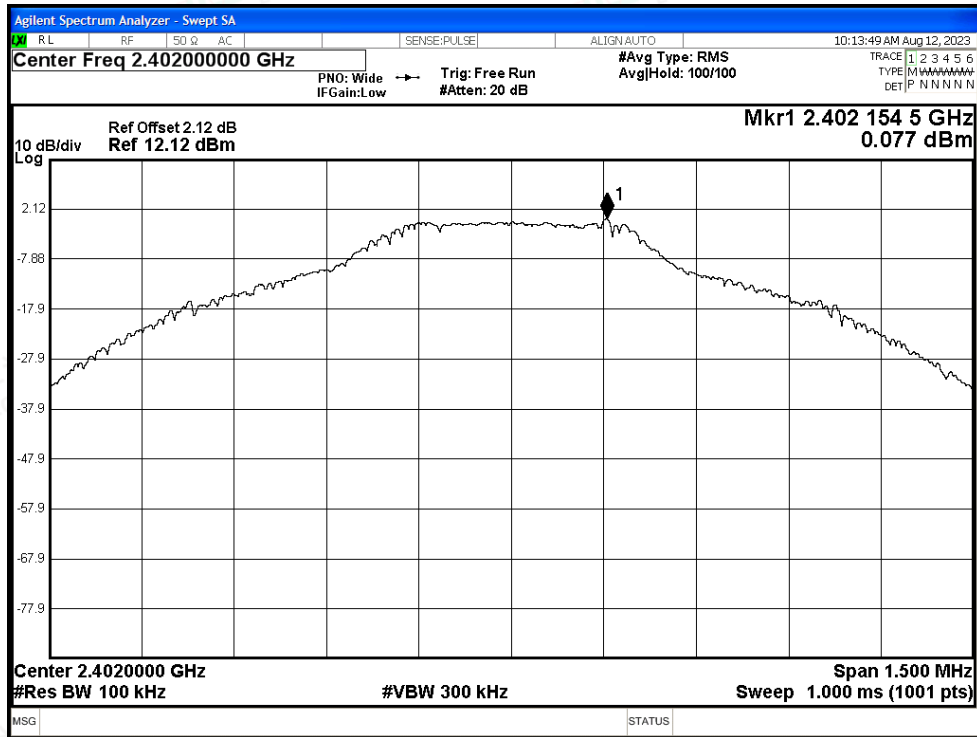


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Scan code to check authenticity

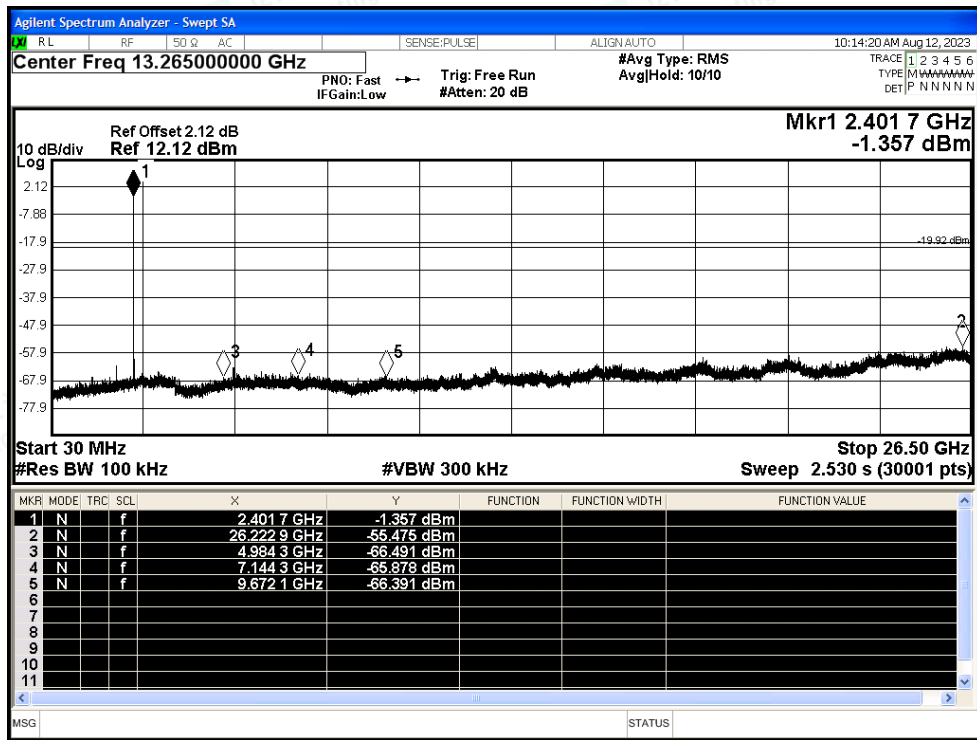


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

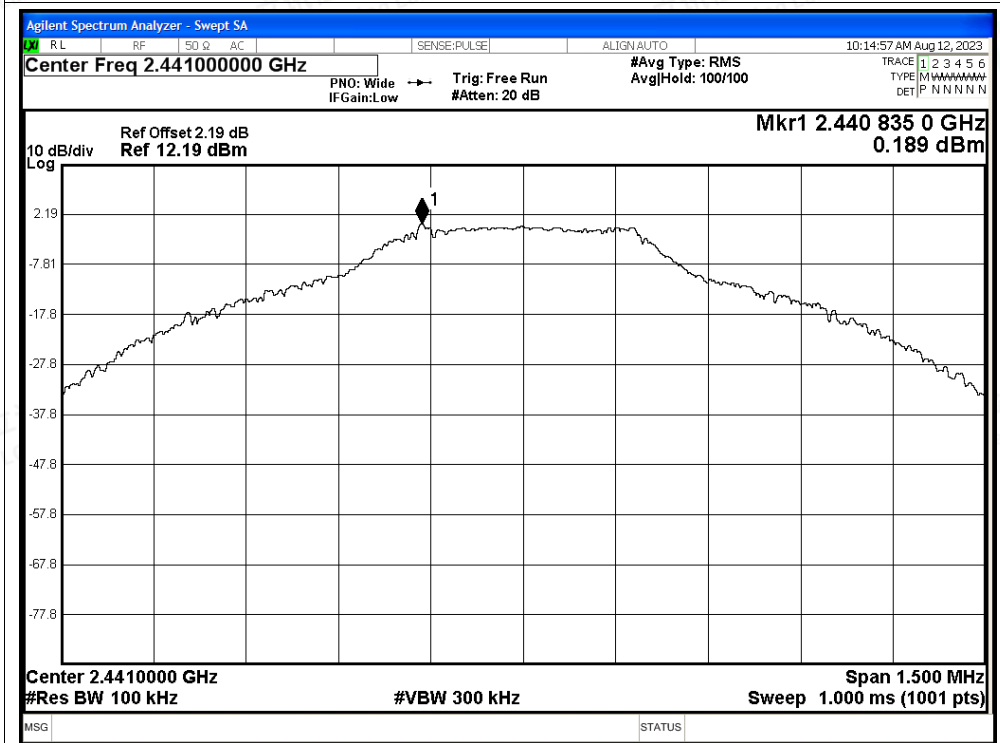


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

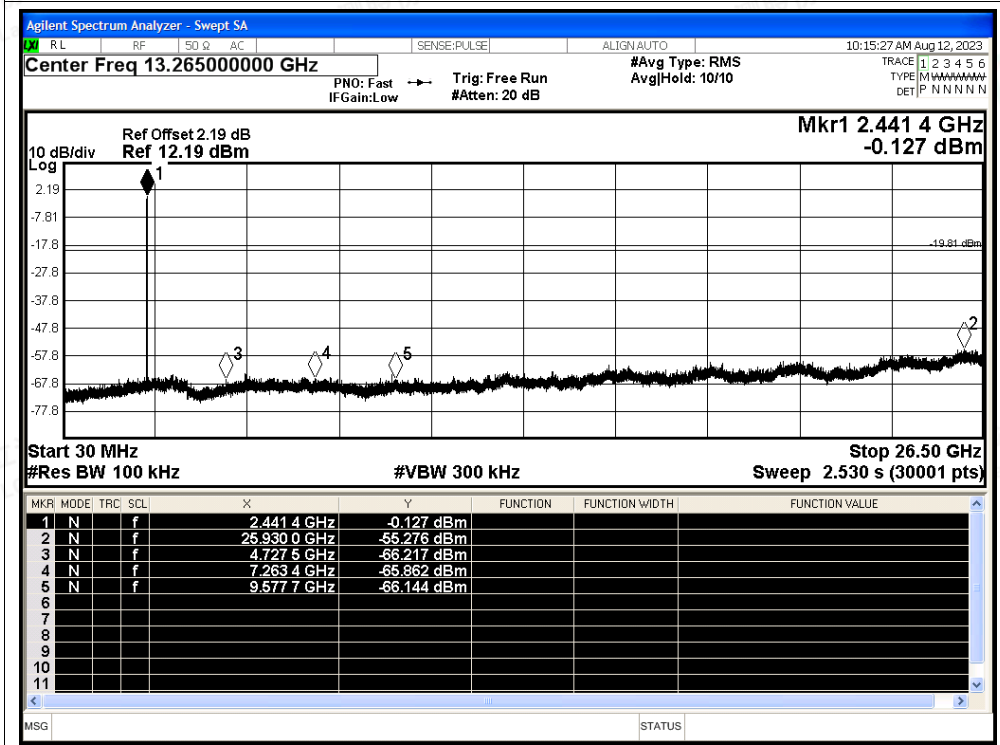




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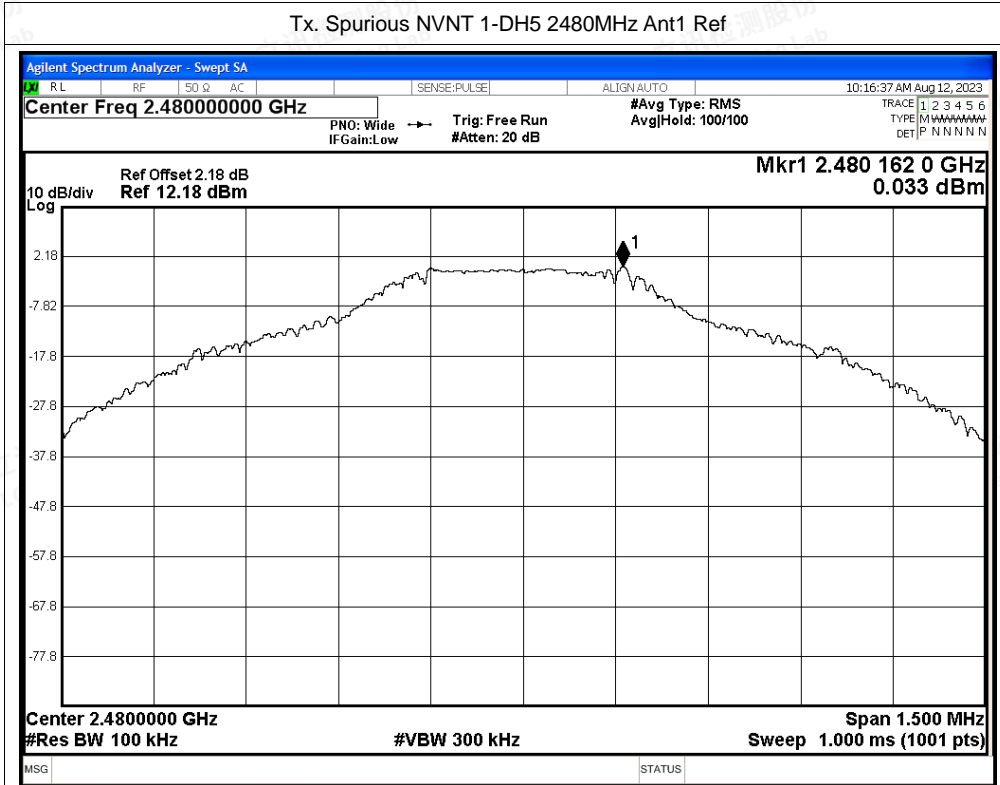


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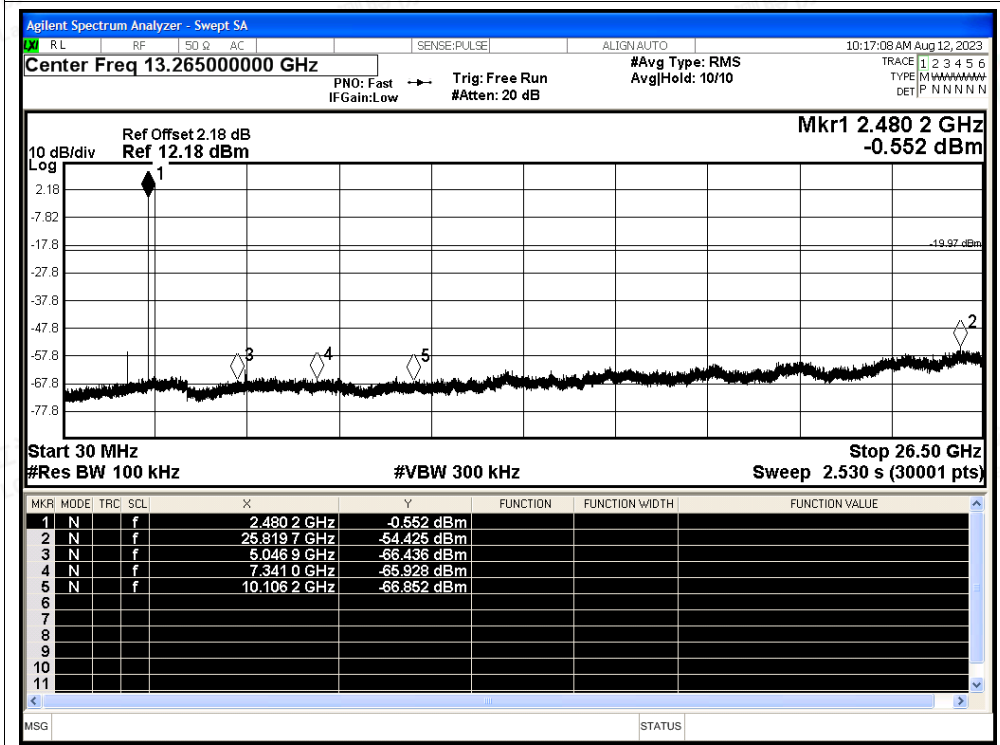




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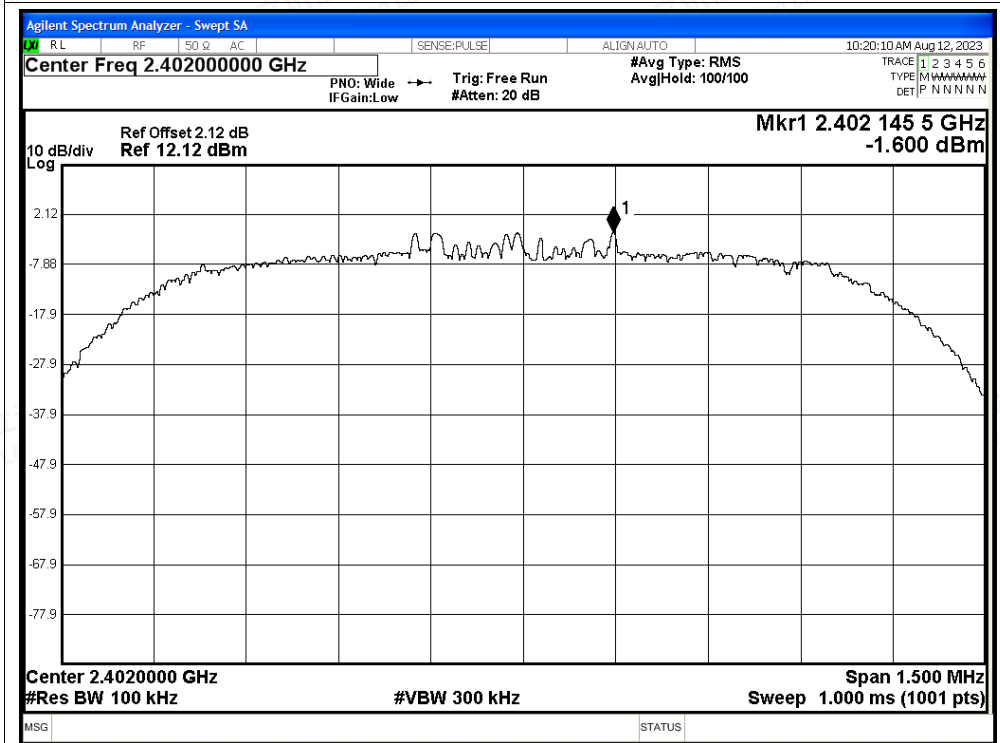


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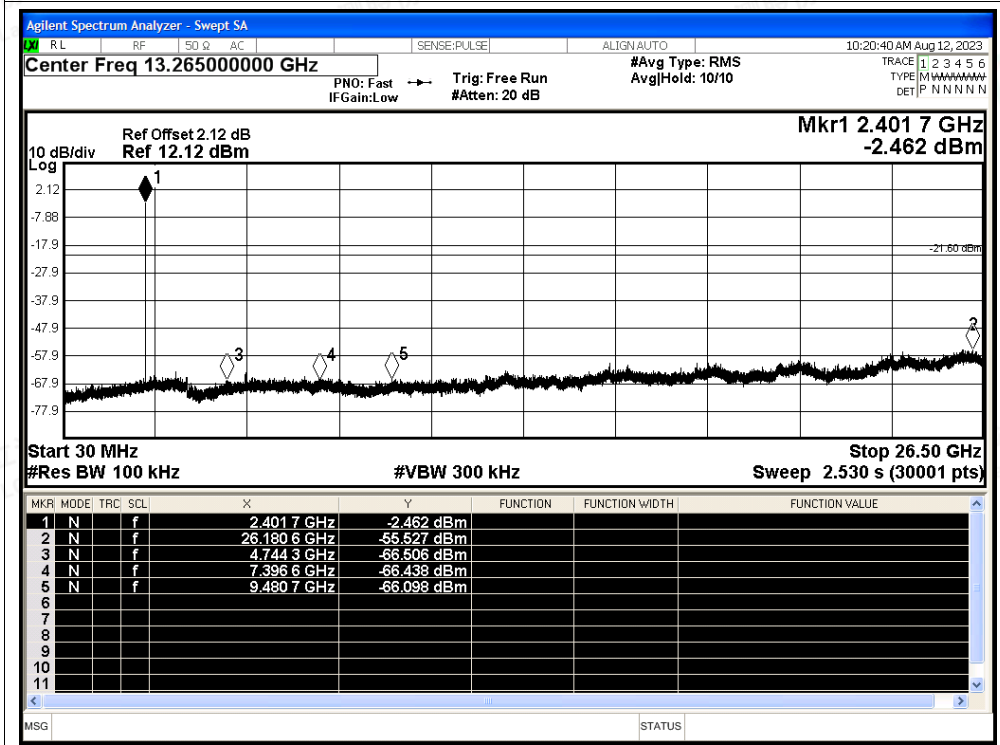




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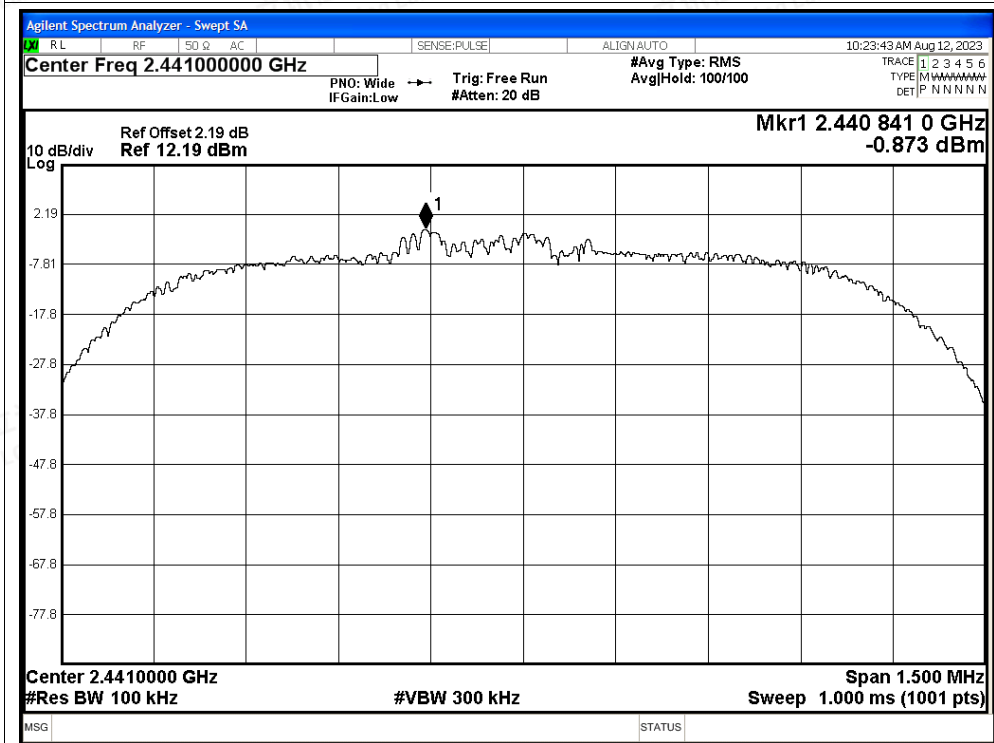


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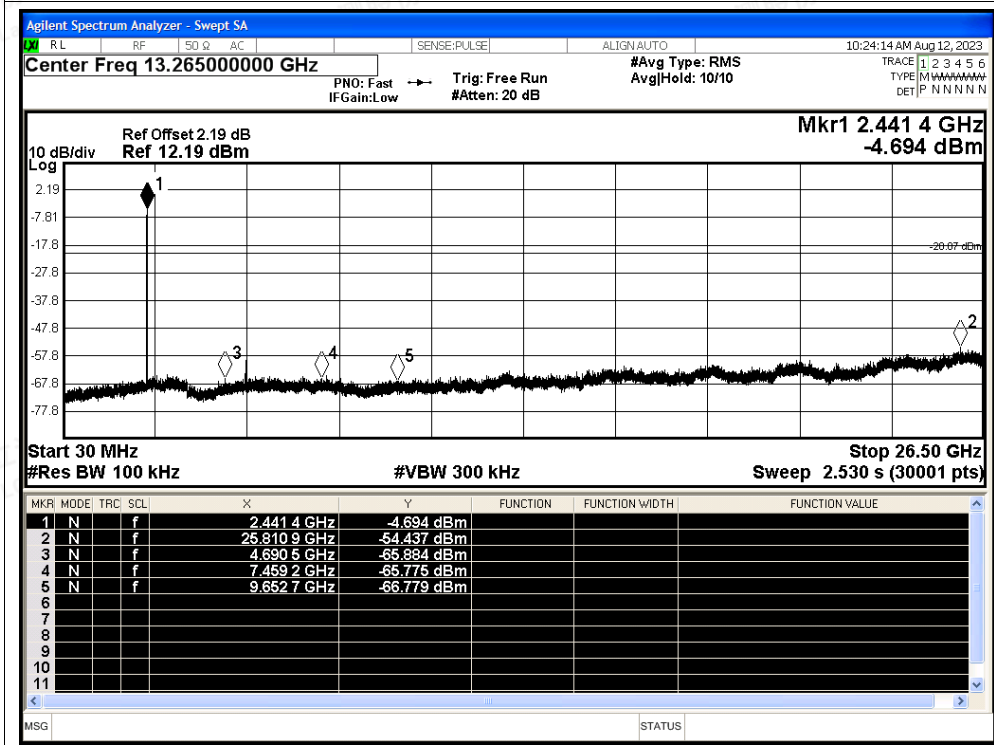


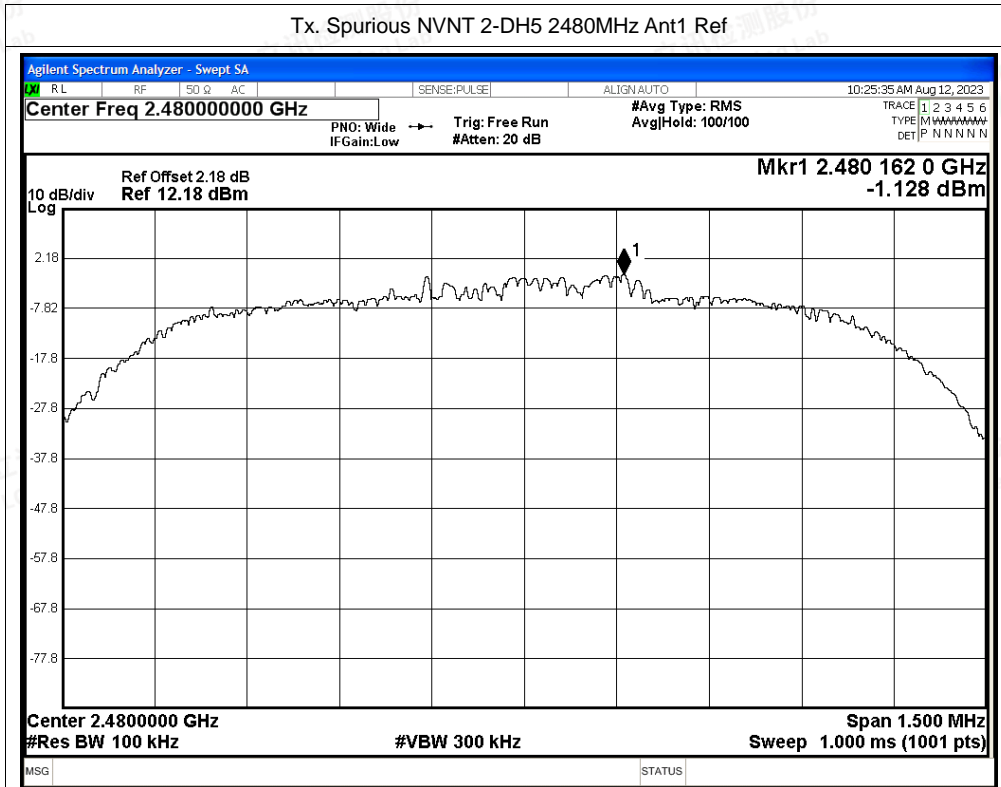


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

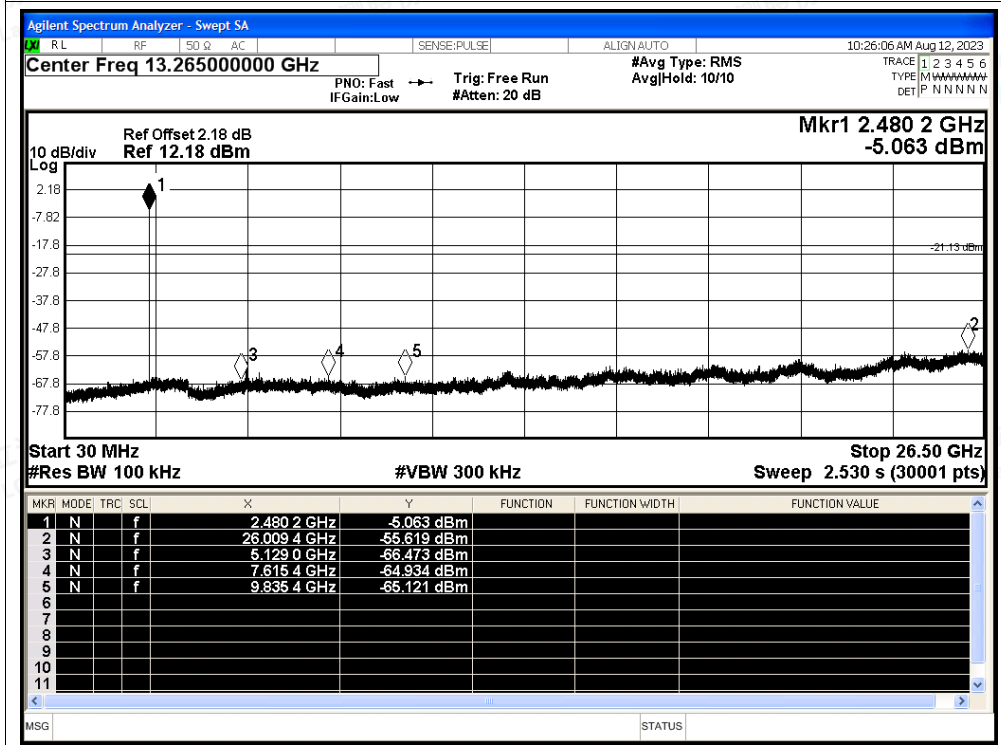


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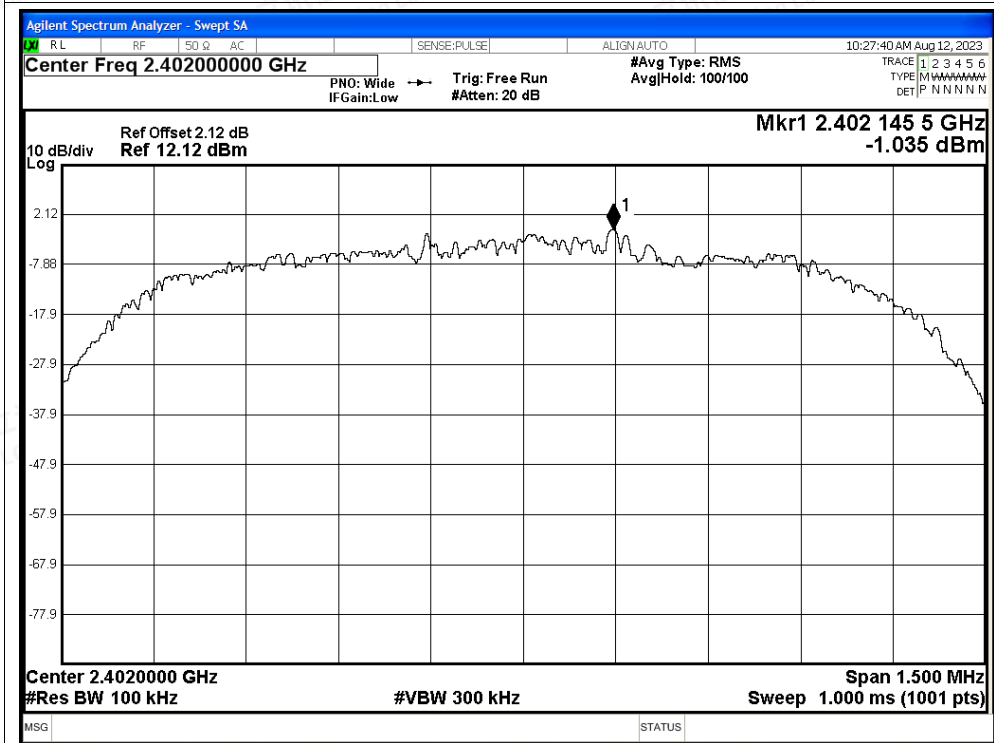


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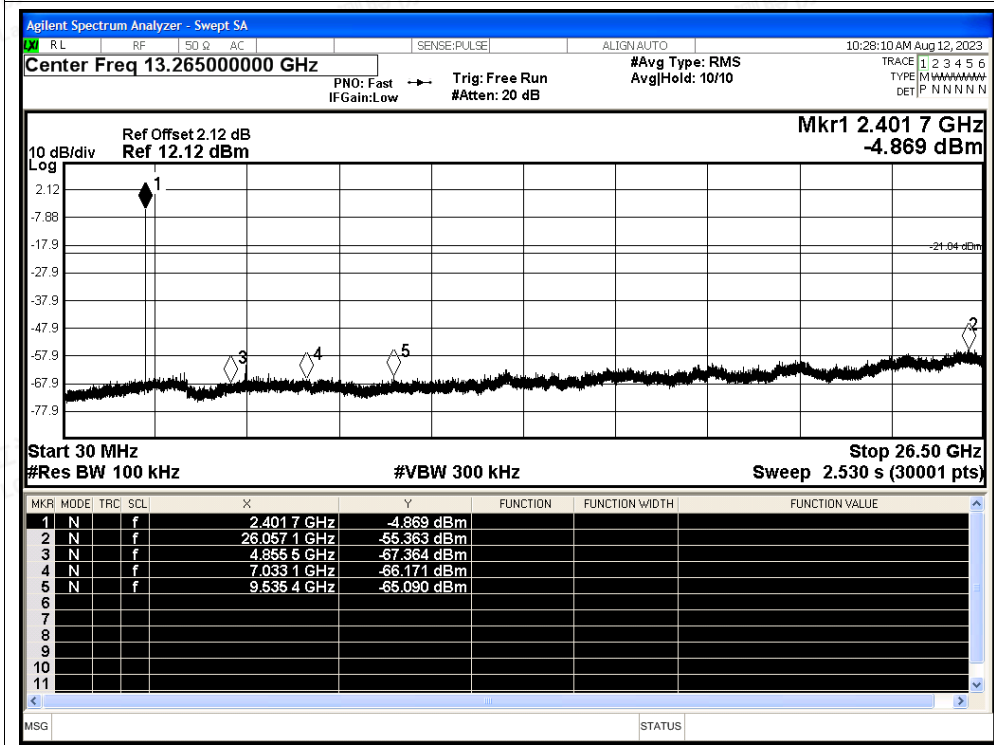




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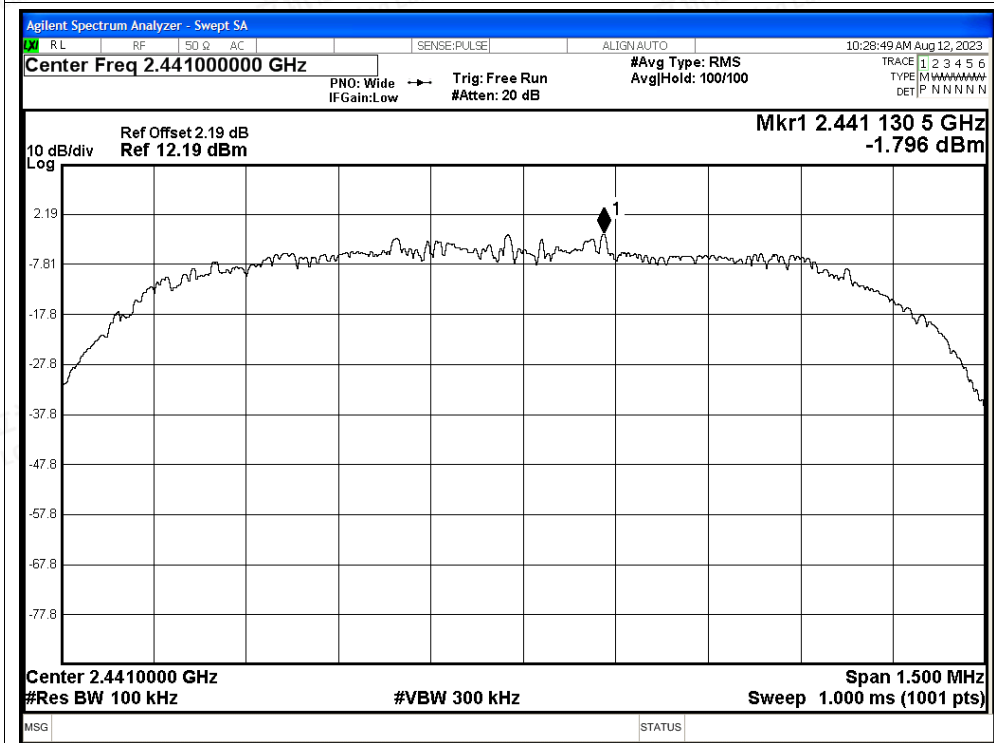


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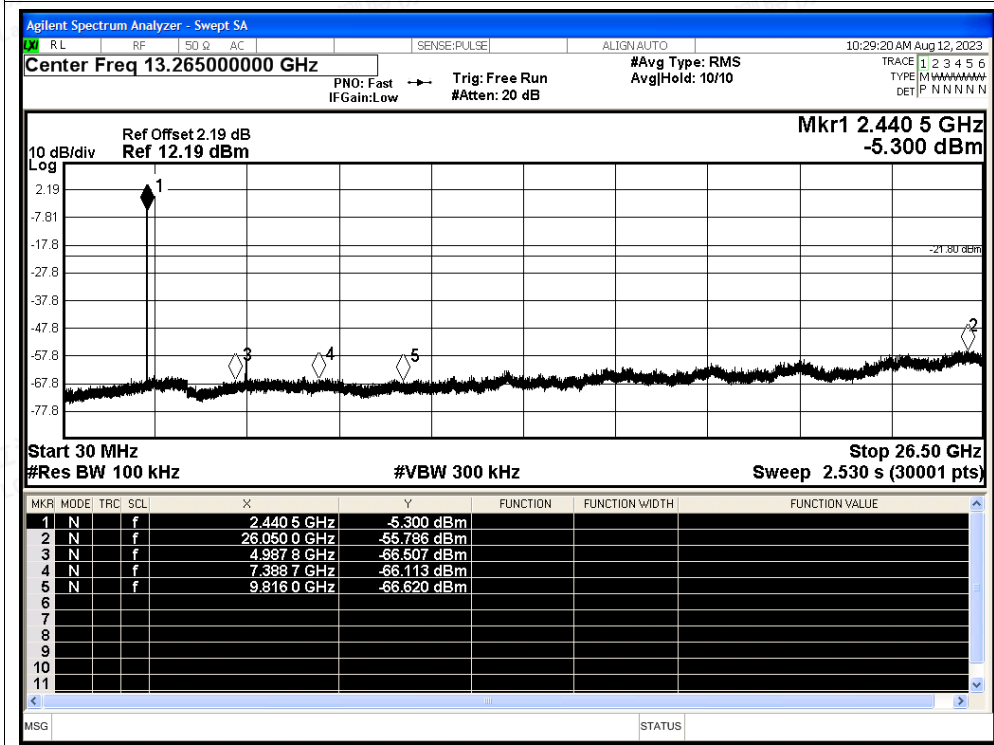




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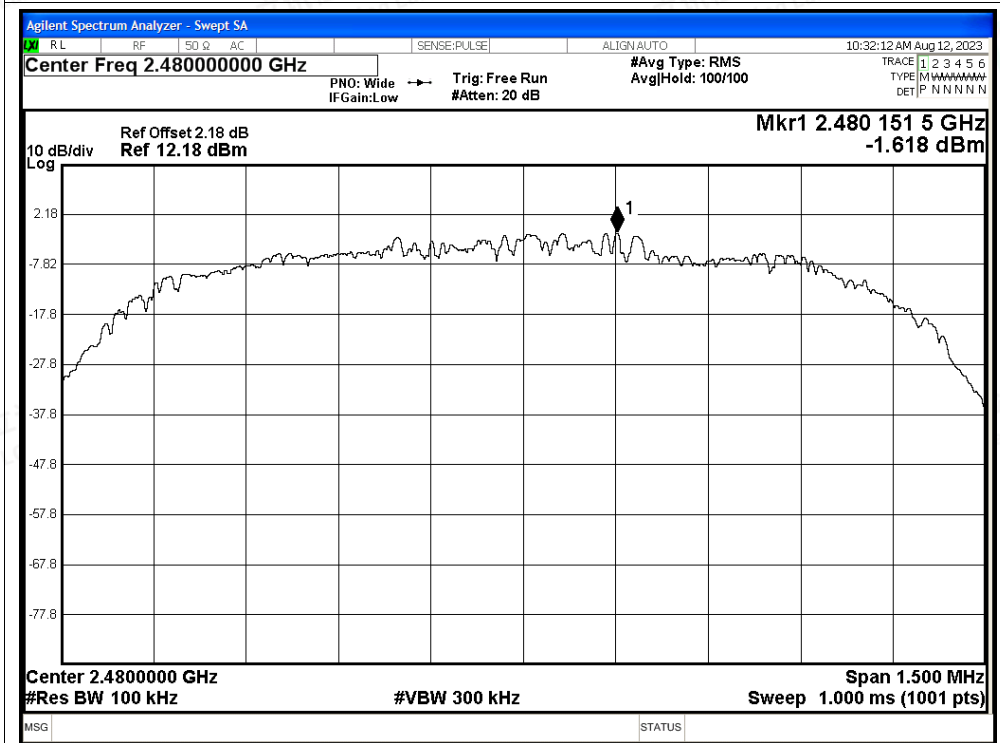


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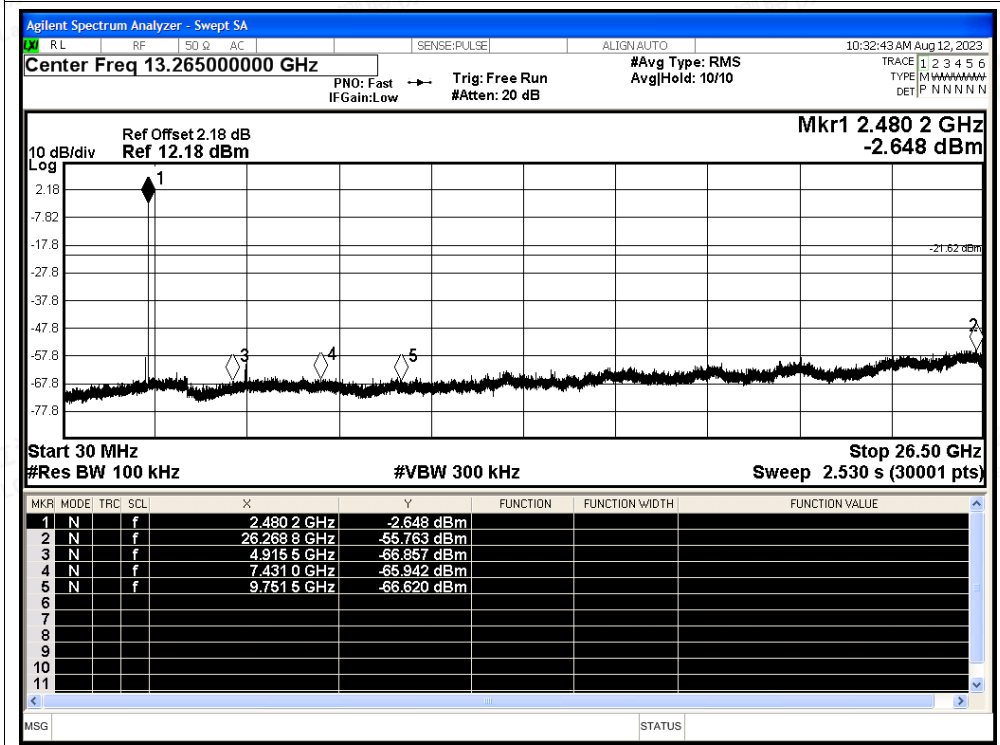




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.9 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	-49.92	3.38	48.72	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.92	3.38	40.72	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2377.104	-47.48	3.38	51.16	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2373.936	-57.48	3.38	41.16	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.94	3.38	48.70	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.52	3.38	41.12	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.63	3.38	49.01	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.75	3.38	42.89	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.824	-47.01	3.38	51.63	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.75	3.38	42.89	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.57	3.38	48.07	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.3	3.38	41.34	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.13	3.38	48.51	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.89	3.38	40.75	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2353.296	-47.57	3.38	51.07	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2384.208	-57.5	3.38	41.14	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.97	3.38	48.67	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.52	3.38	41.12	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.02	3.38	48.62	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.72	3.38	42.92	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.512	-46.64	3.38	52.00	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.72	3.38	42.92	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.99	3.38	49.65	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.25	3.38	41.39	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-48.45	3.38	50.19	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.99	3.38	40.65	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.68	-47.11	3.38	51.53	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.488	-57.43	3.38	41.21	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.31	3.38	49.33	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.52	3.38	41.12	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-51.2	3.38	47.44	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.71	3.38	42.93	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.04	-46.37	3.38	52.27	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.71	3.38	42.93	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.67	3.38	48.97	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.31	3.38	41.33	Average	54	Pass

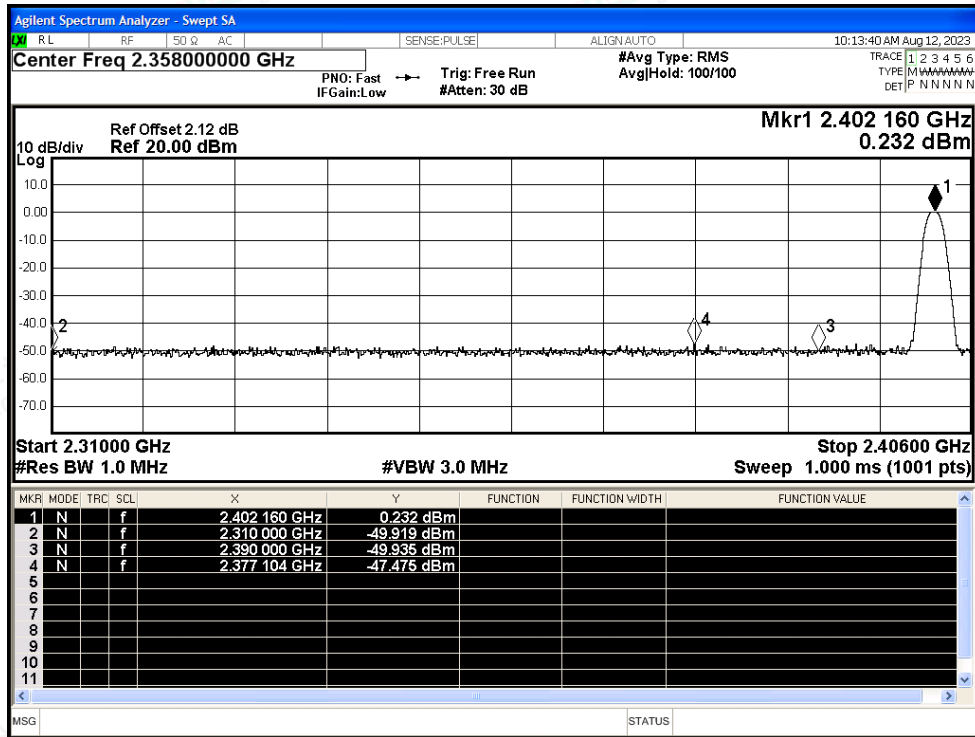


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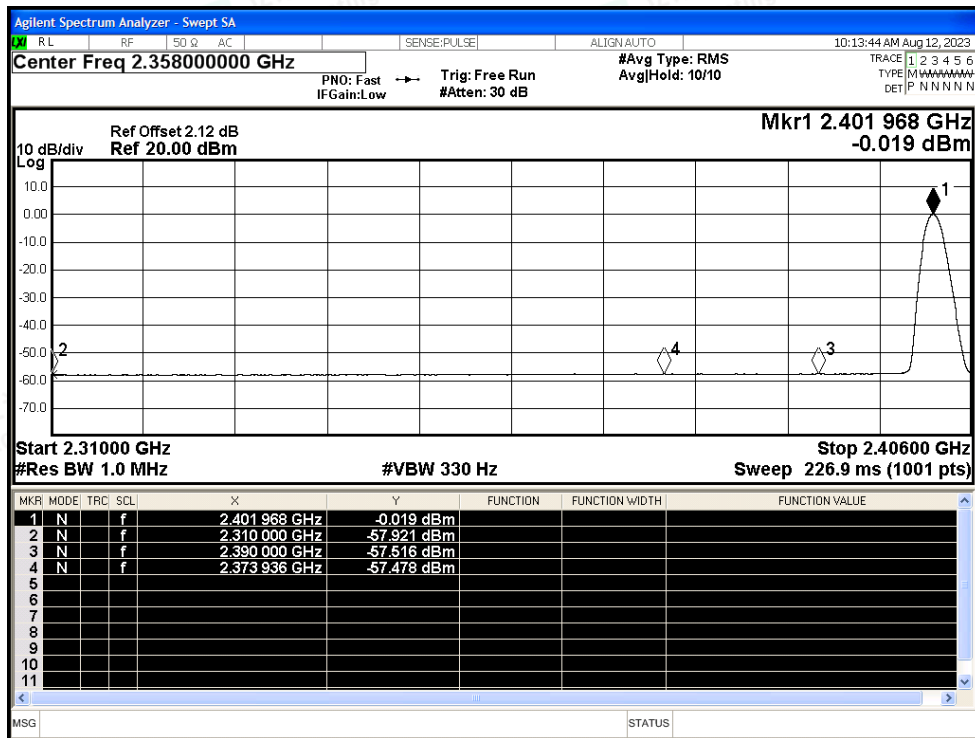


Test Graphs

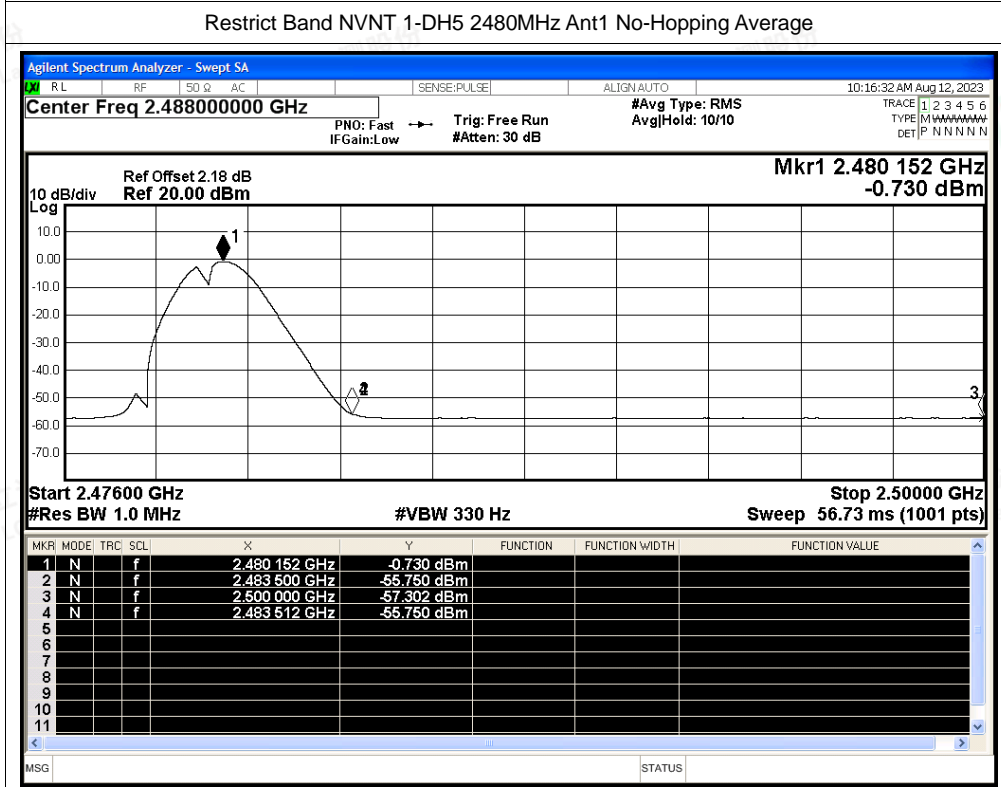
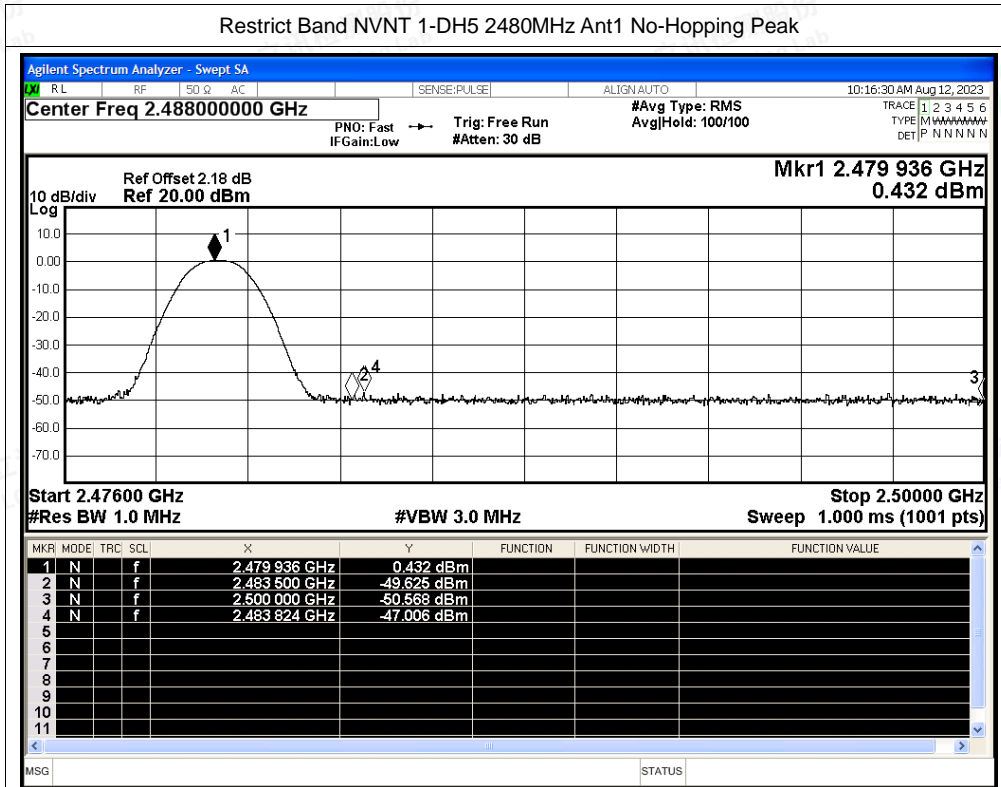
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak

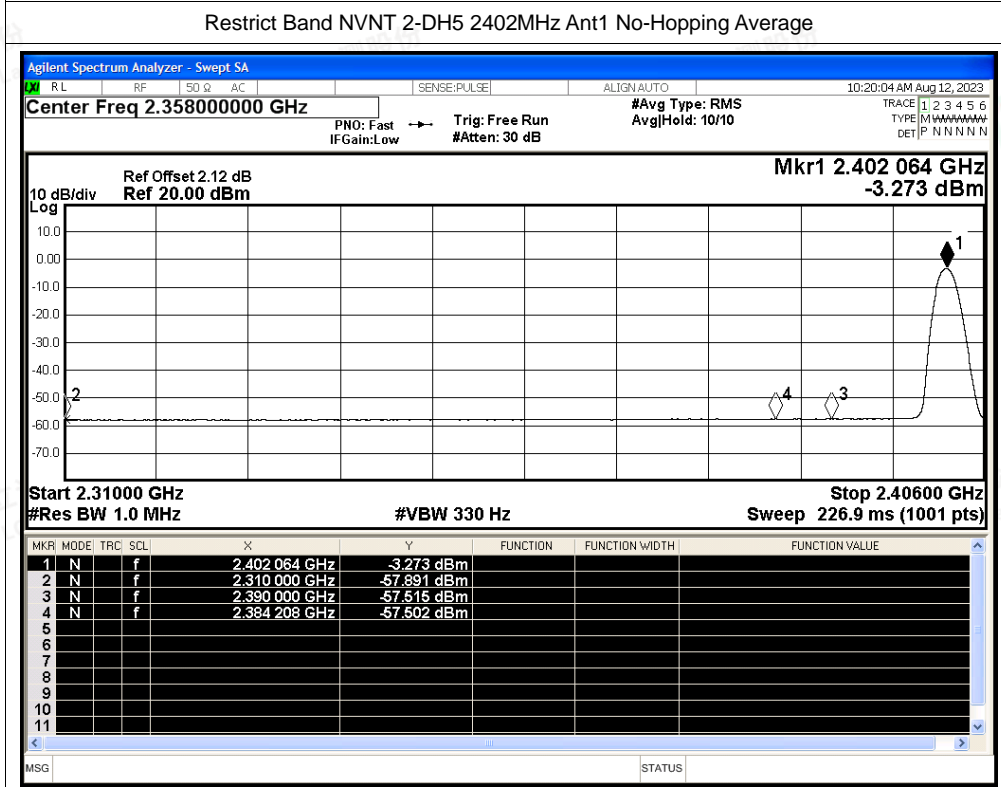
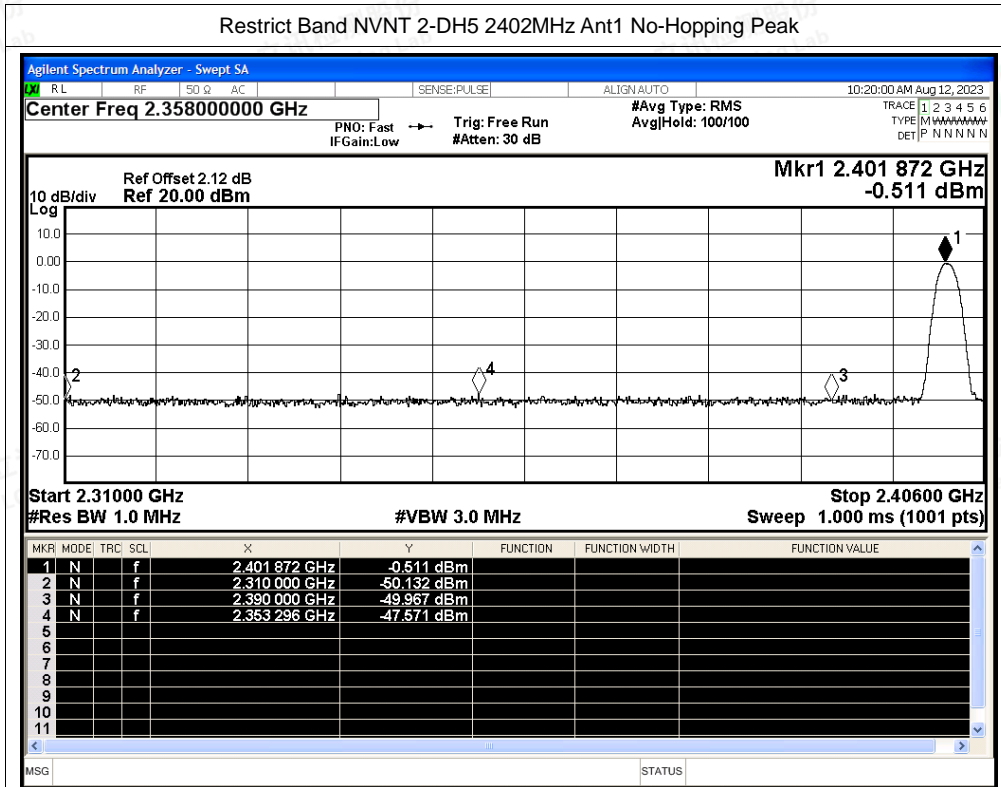


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



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