



Appendix B

RF Test Data for BT (Conducted Measurement)

Product Name: HOME THEATER PROJECTOR

Test Model: M-508A

Environmental Conditions

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





B.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.028	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.024	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.026	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.281	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.321	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.285	N/A	Pass

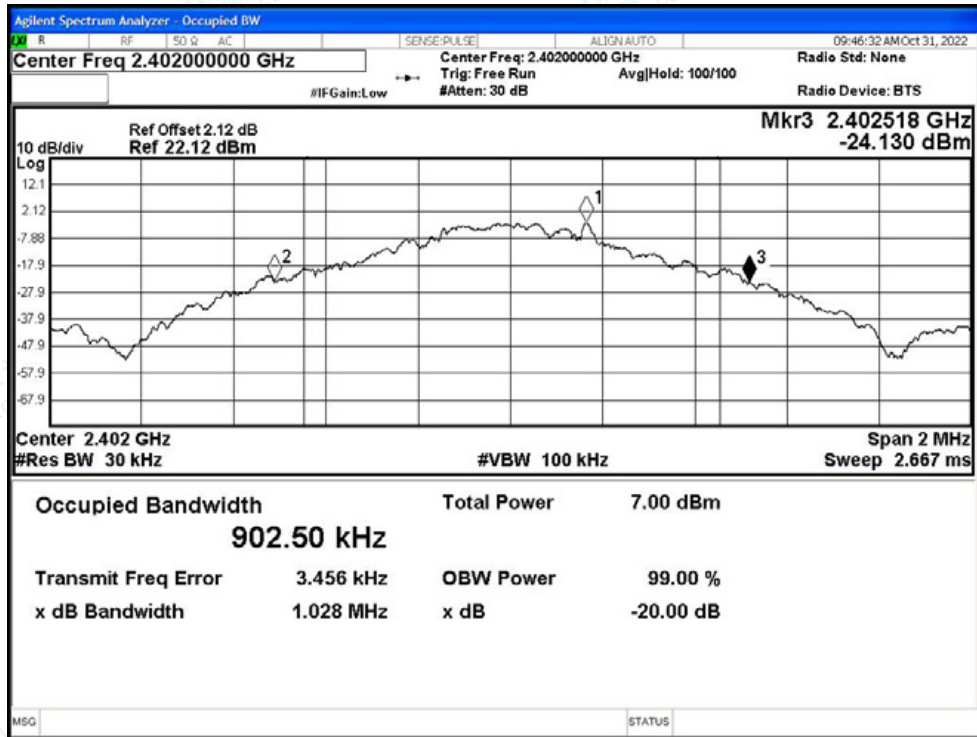


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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

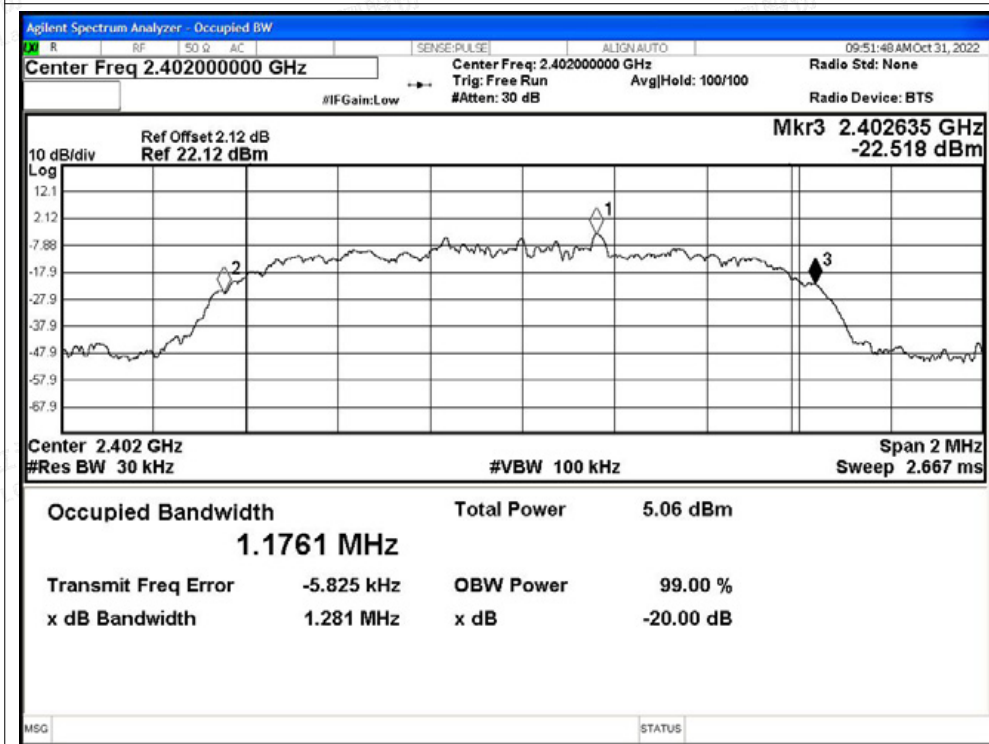




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

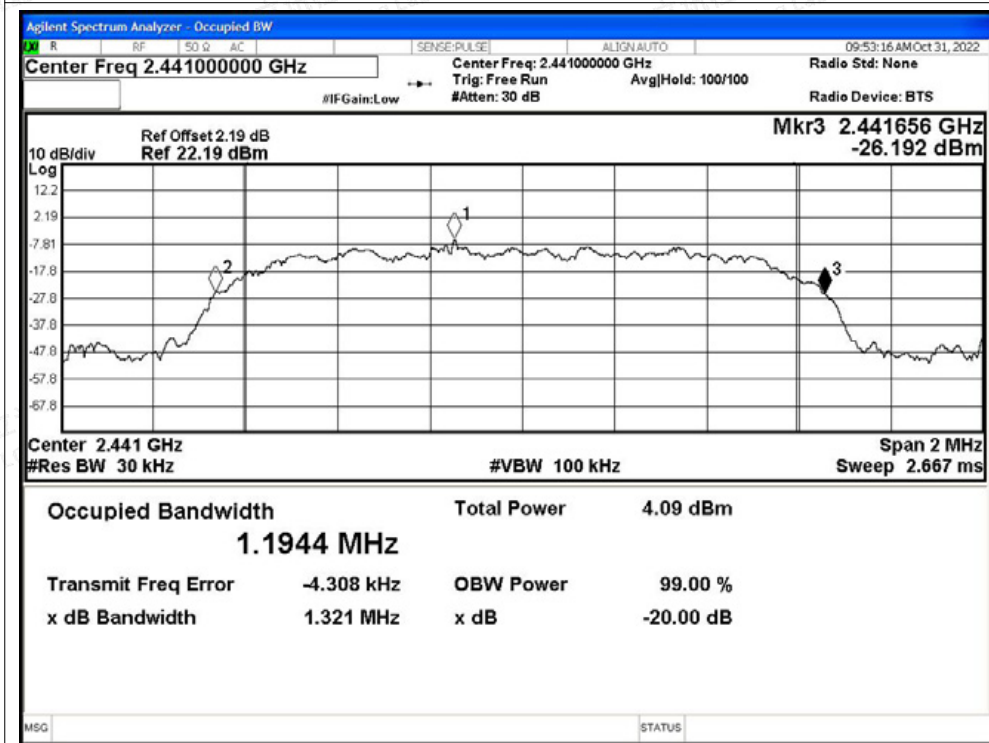


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

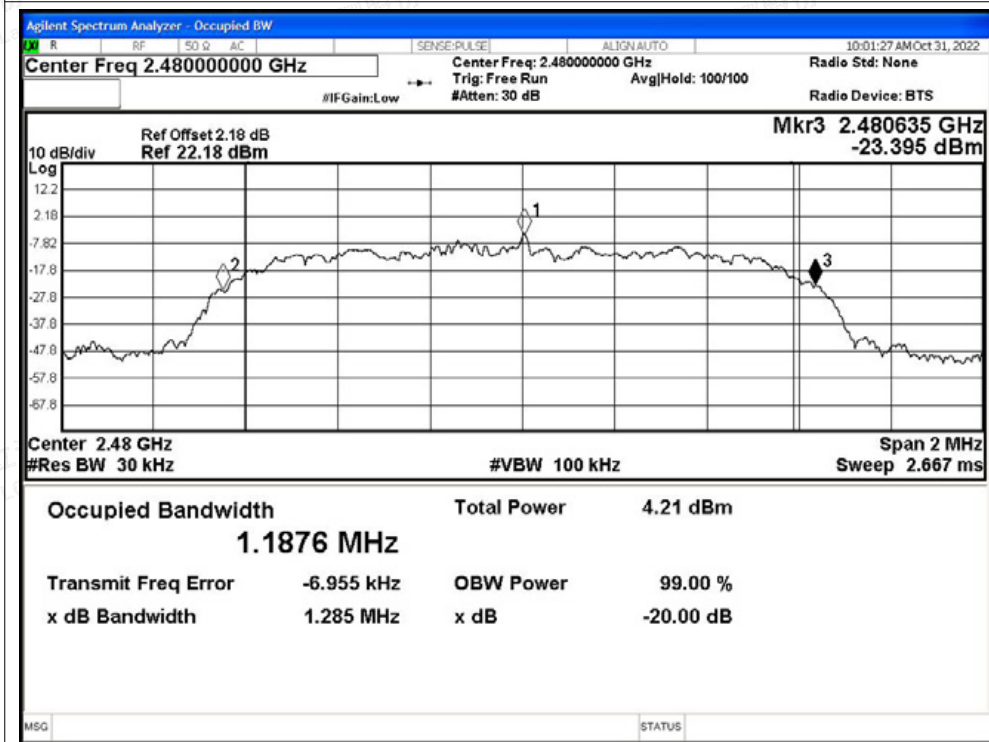




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.64	21	Pass
NVNT	1-DH5	2441	Ant1	0.8	21	Pass
NVNT	1-DH5	2480	Ant1	0.55	21	Pass
NVNT	2-DH5	2402	Ant1	0.38	21	Pass
NVNT	2-DH5	2441	Ant1	0.52	21	Pass
NVNT	2-DH5	2480	Ant1	0.24	21	Pass

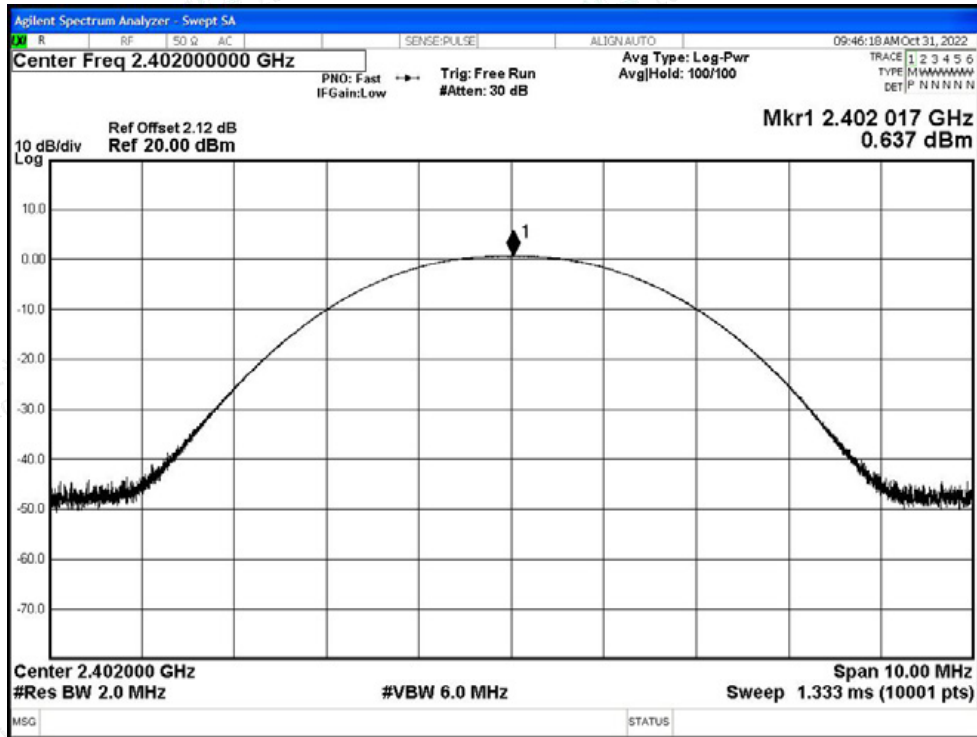


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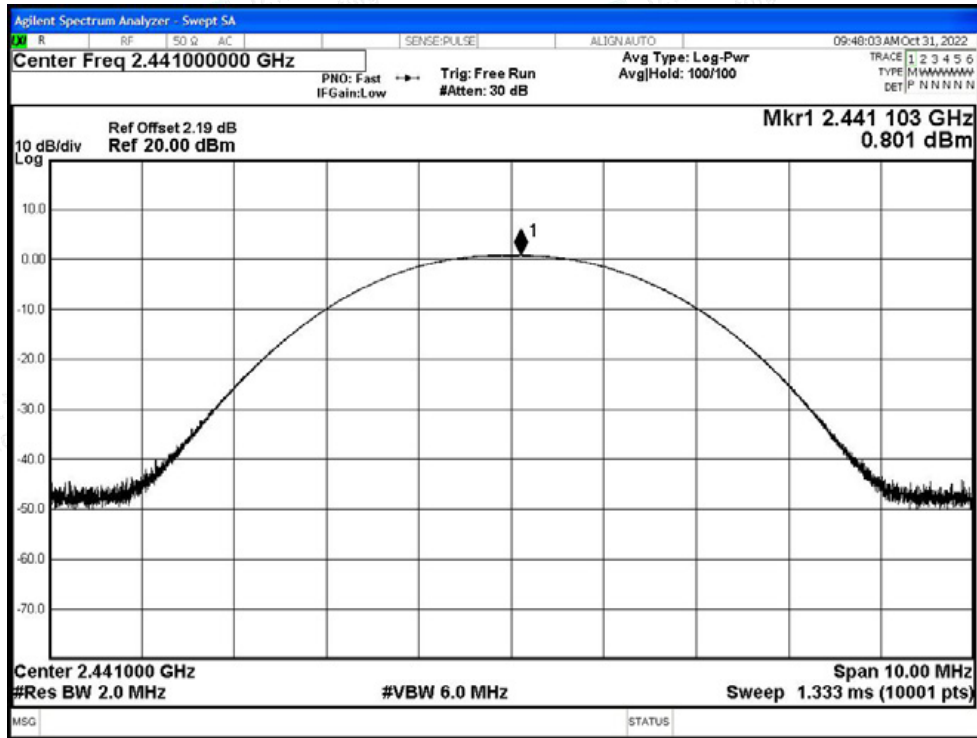


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

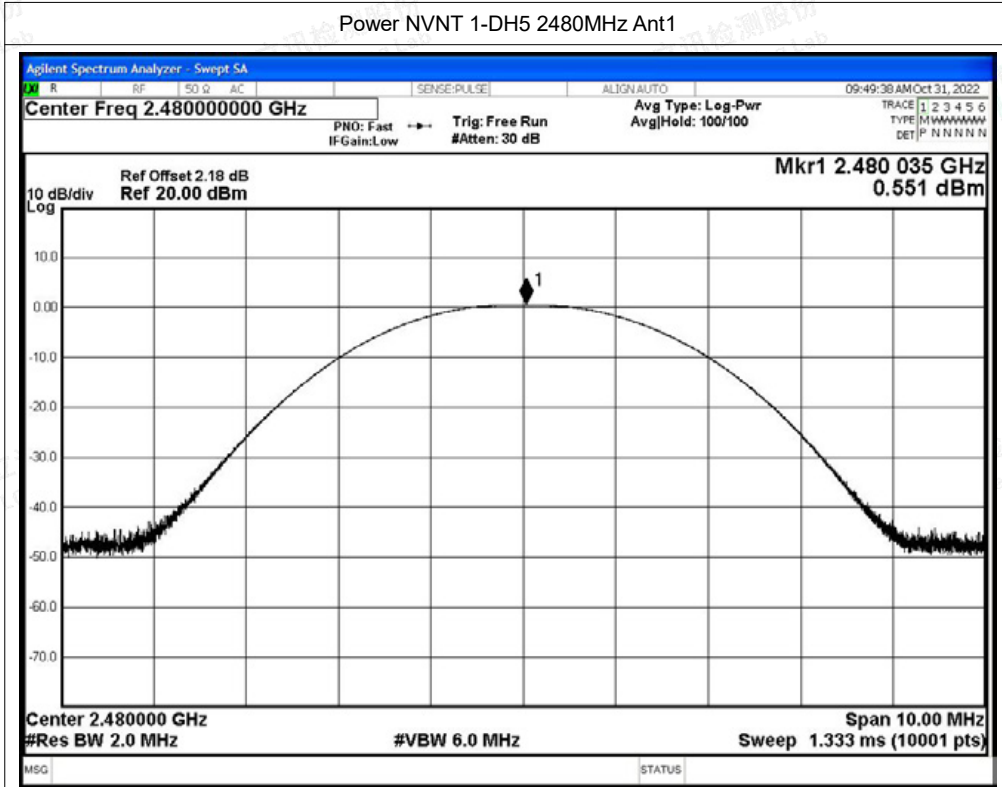


Power NVNT 1-DH5 2441MHz Ant1

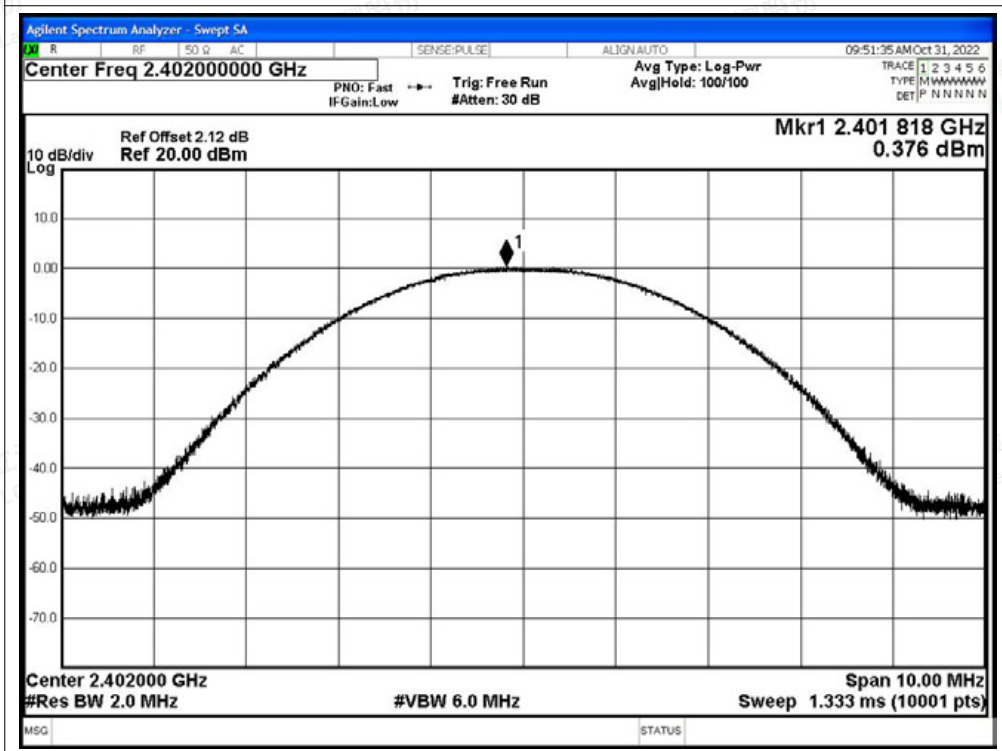




Power NVNT 1-DH5 2480MHz Ant1

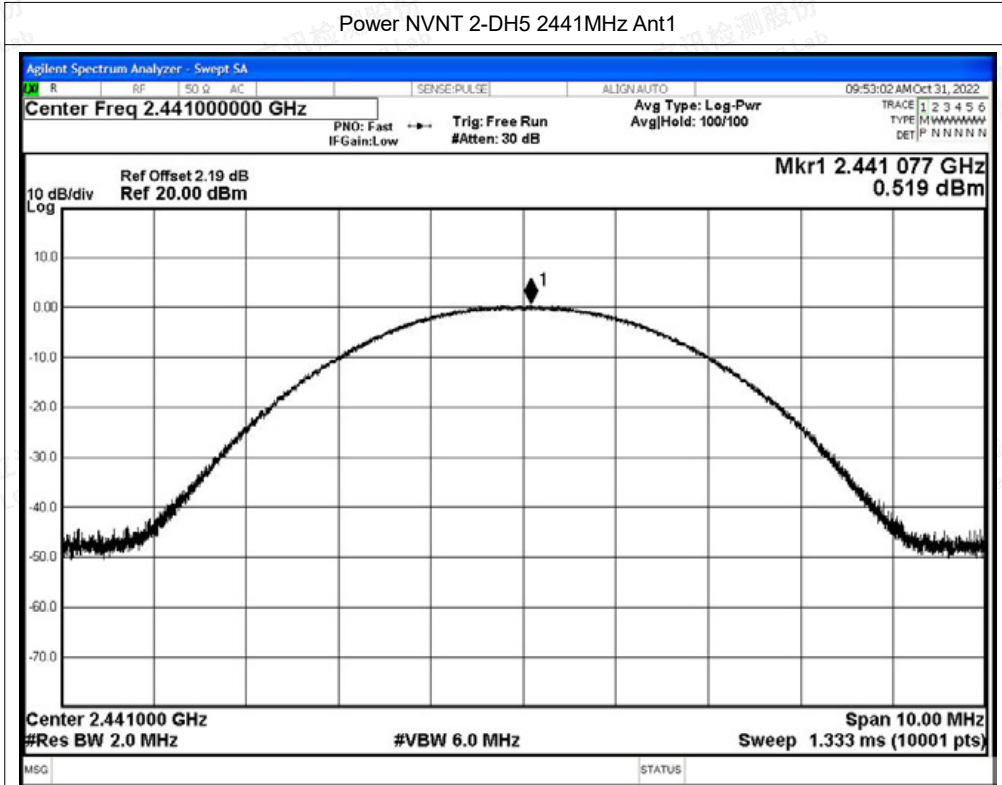


Power NVNT 2-DH5 2402MHz Ant1

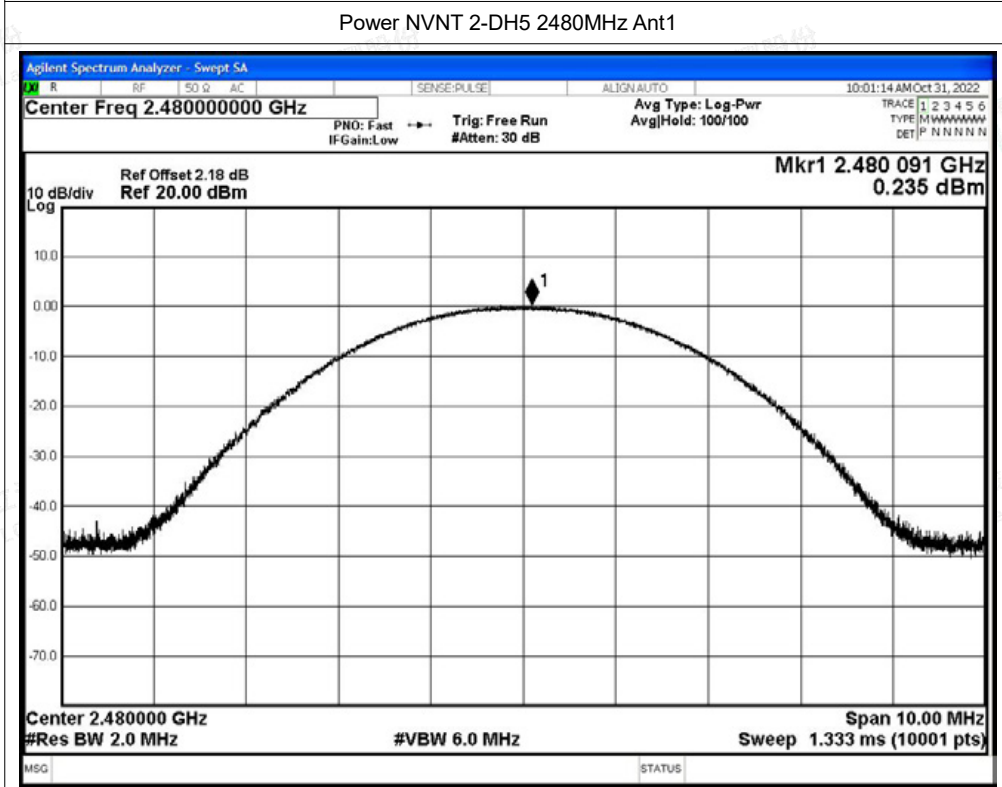




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





B.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.154	2402.96	0.806	0.686	Pass
NVNT	2-DH5	Ant1	2402.01	2403.01	1.000	0.881	Pass

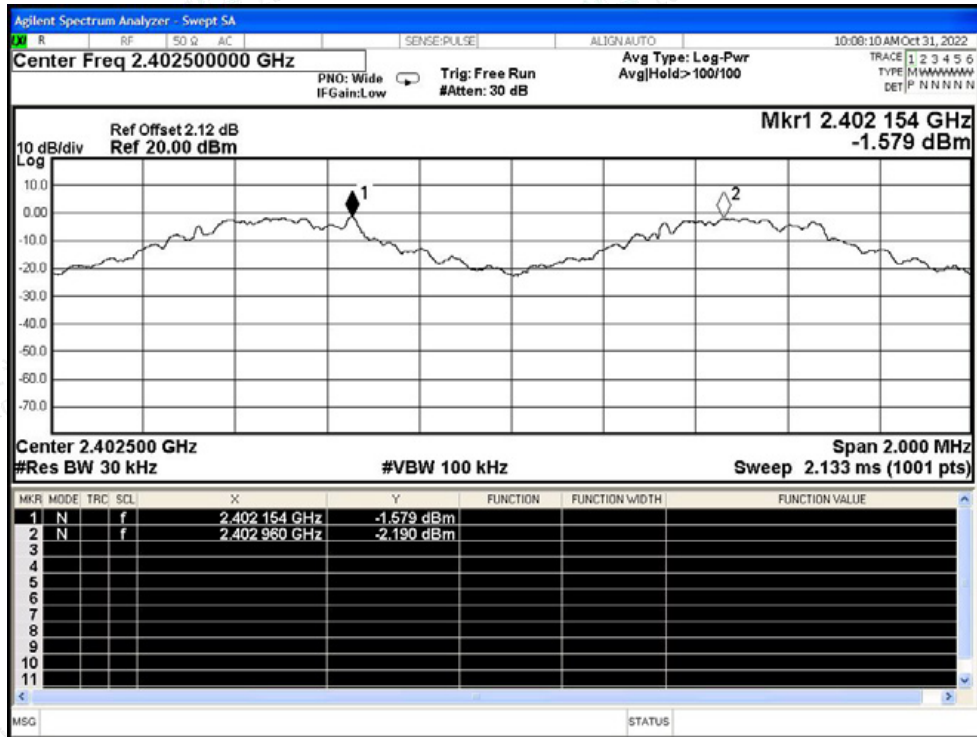


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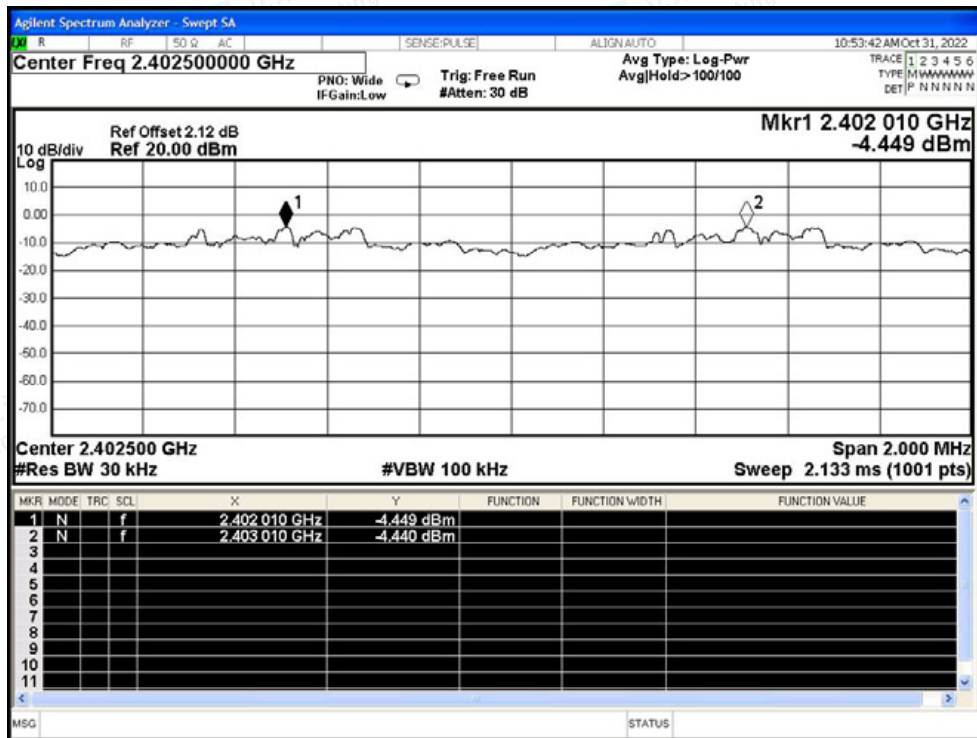


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1





B.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	2.881	316.91	110	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.886	369.408	128	31600	400	Pass

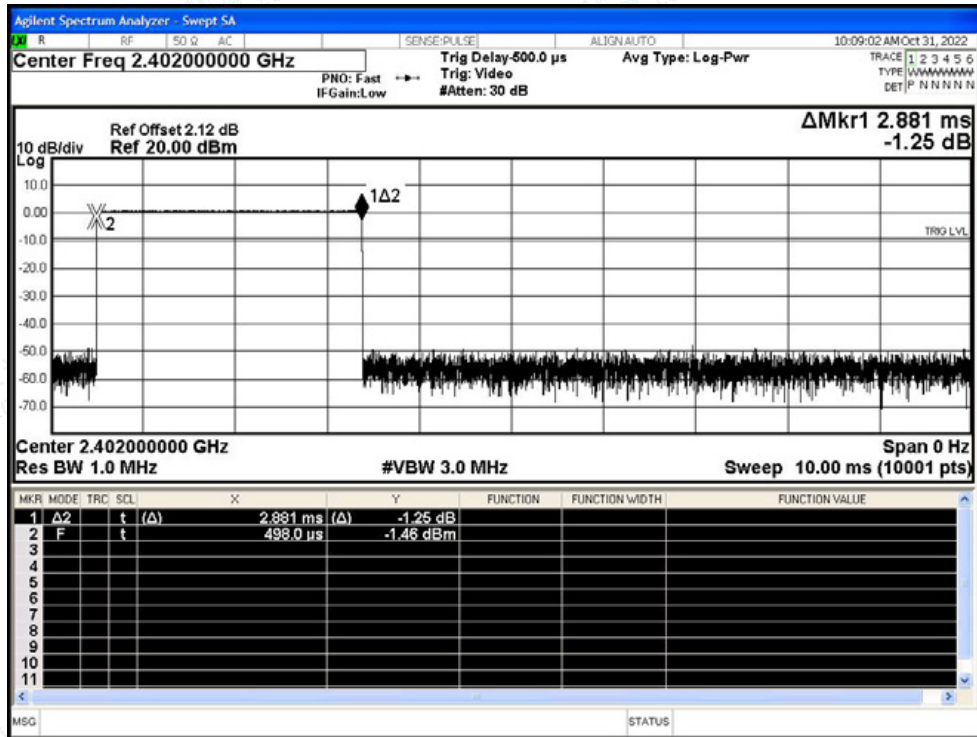


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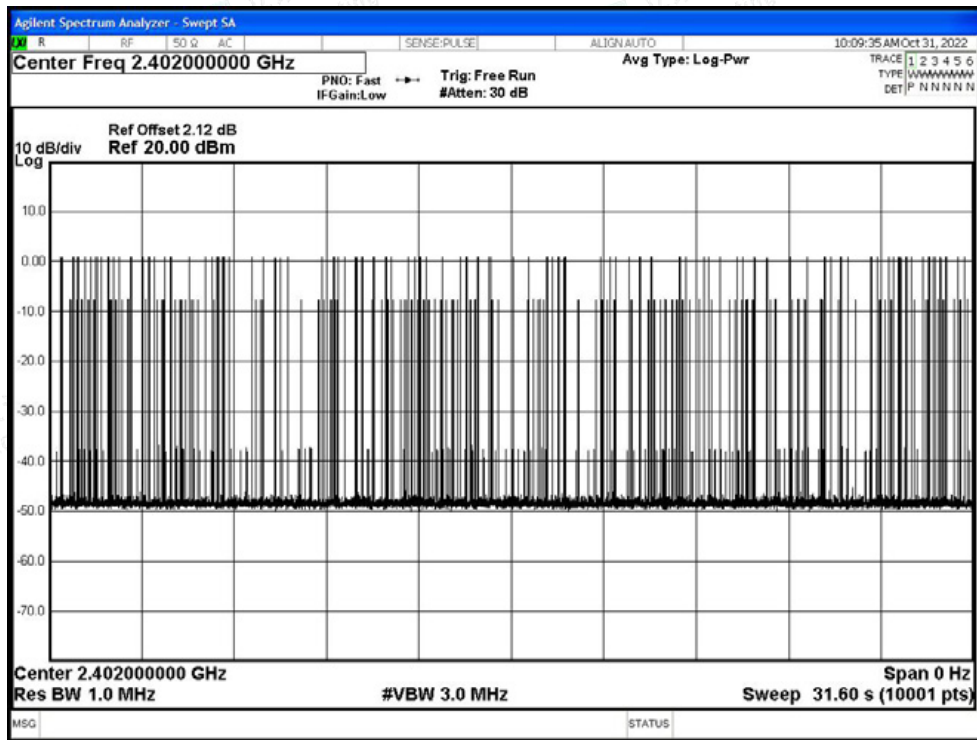


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

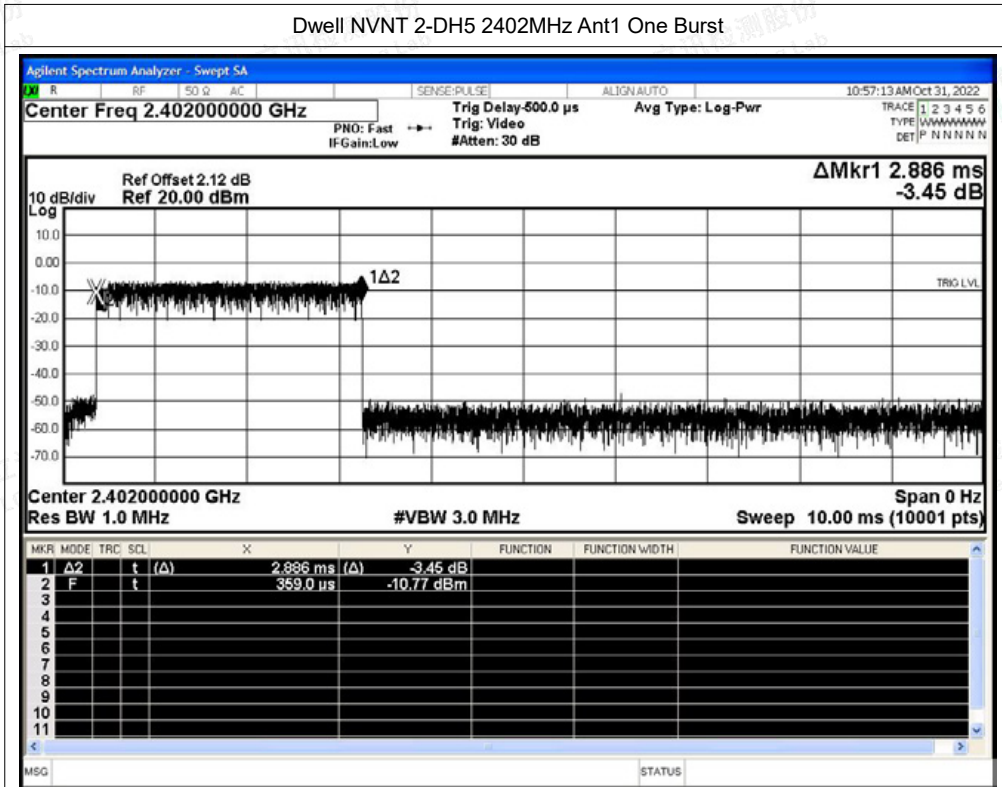


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

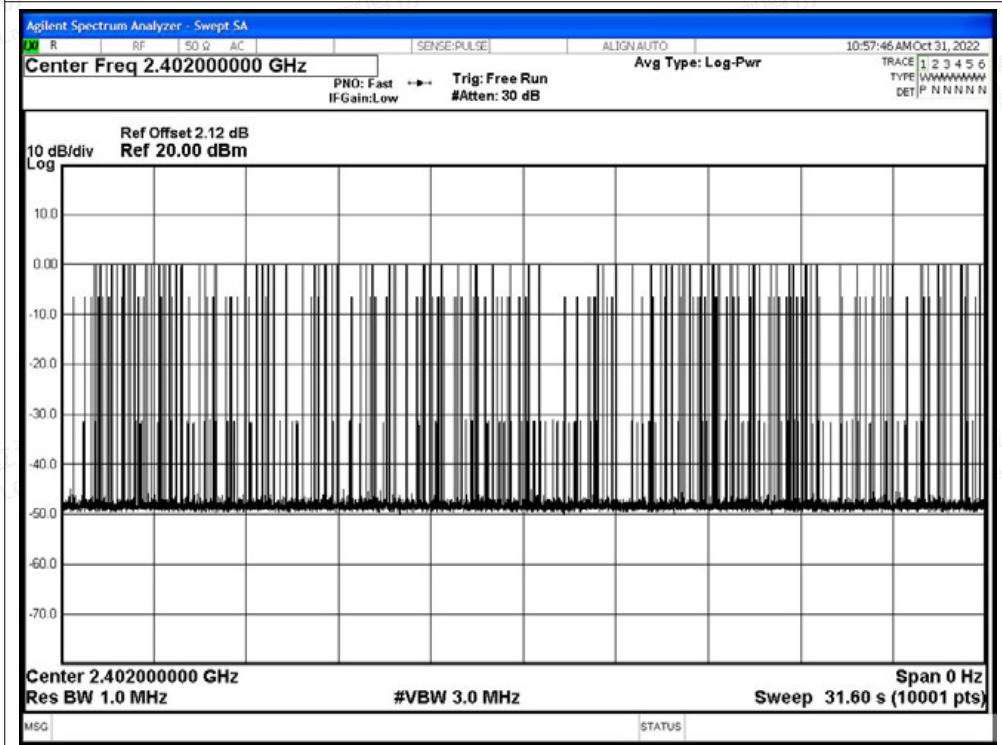




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





B.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

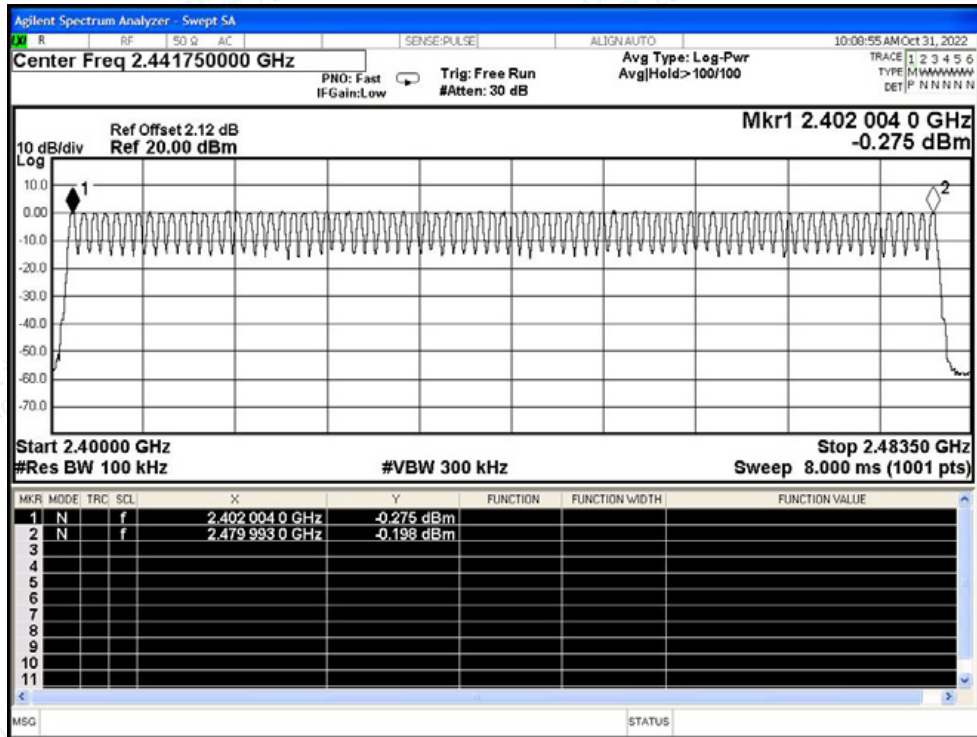


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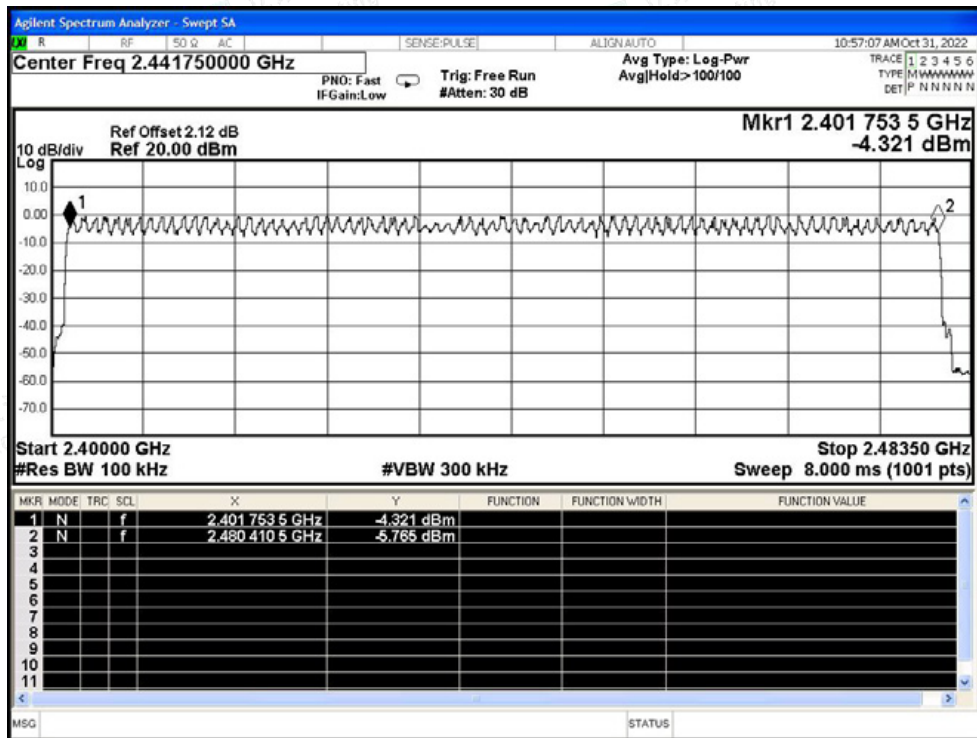


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





B.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.61	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.23	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.1	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.78	-20	Pass

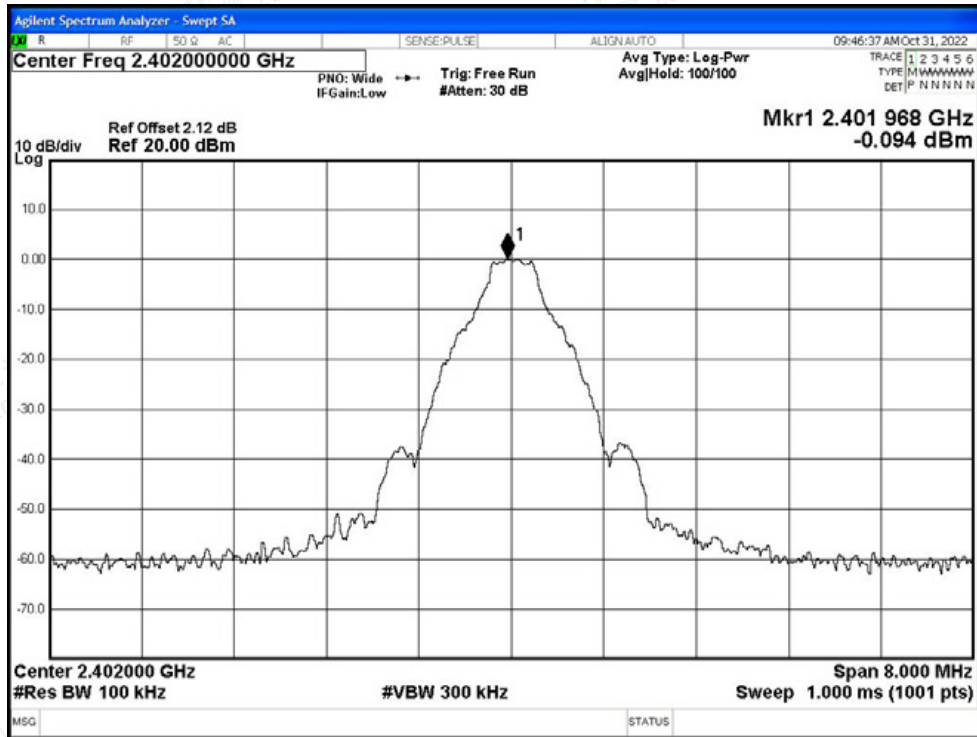


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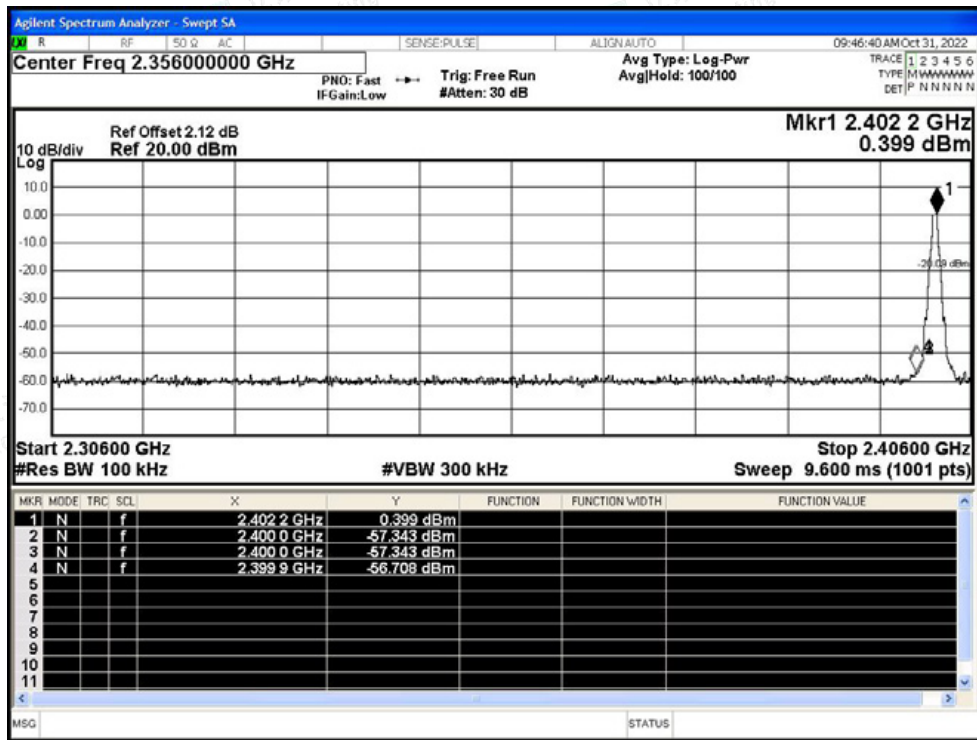


Test Graphs

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

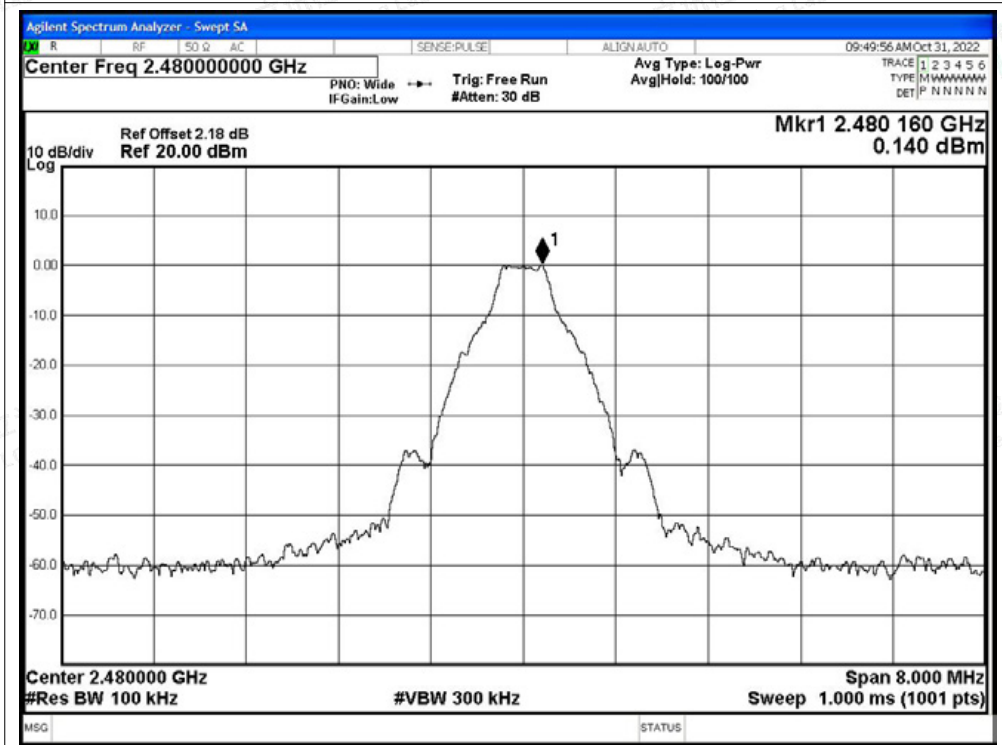


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

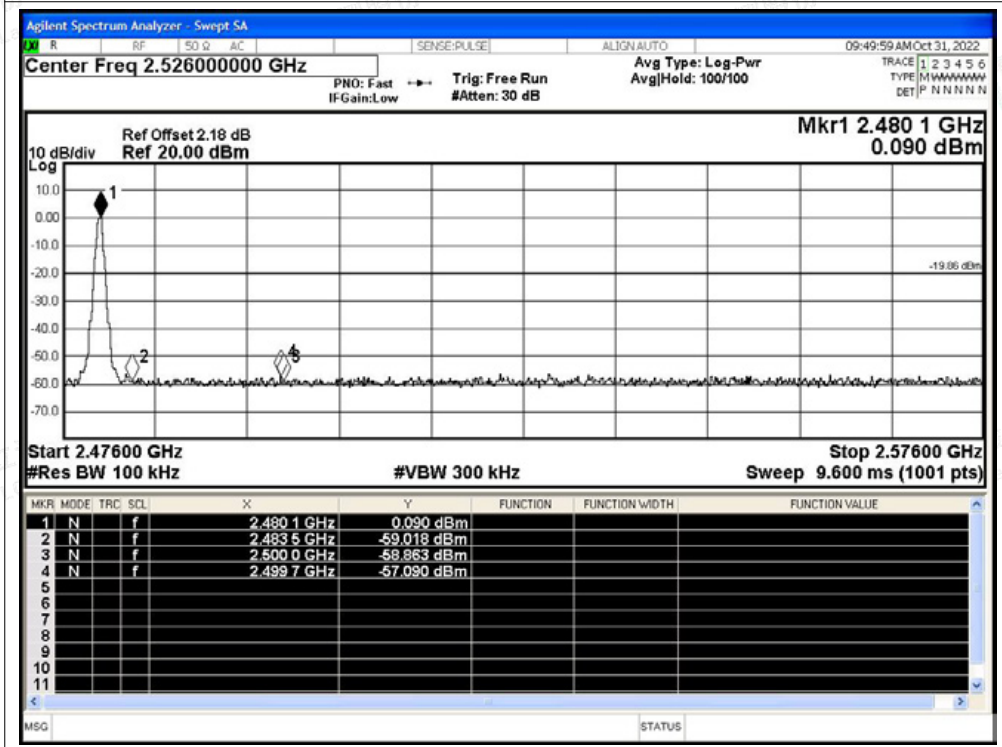




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

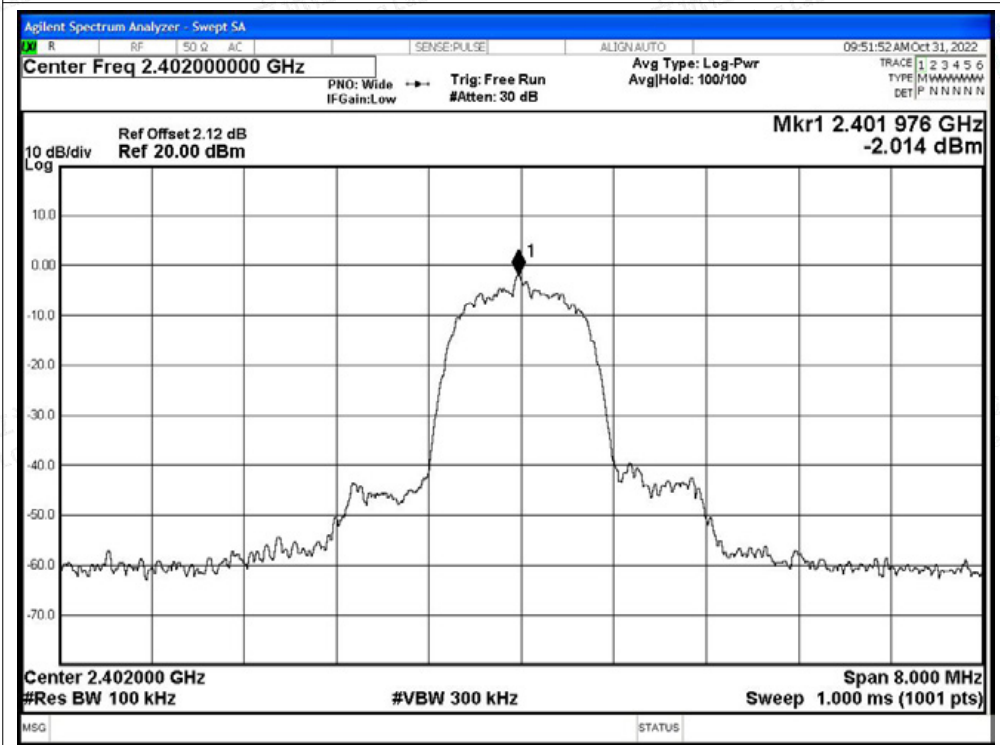


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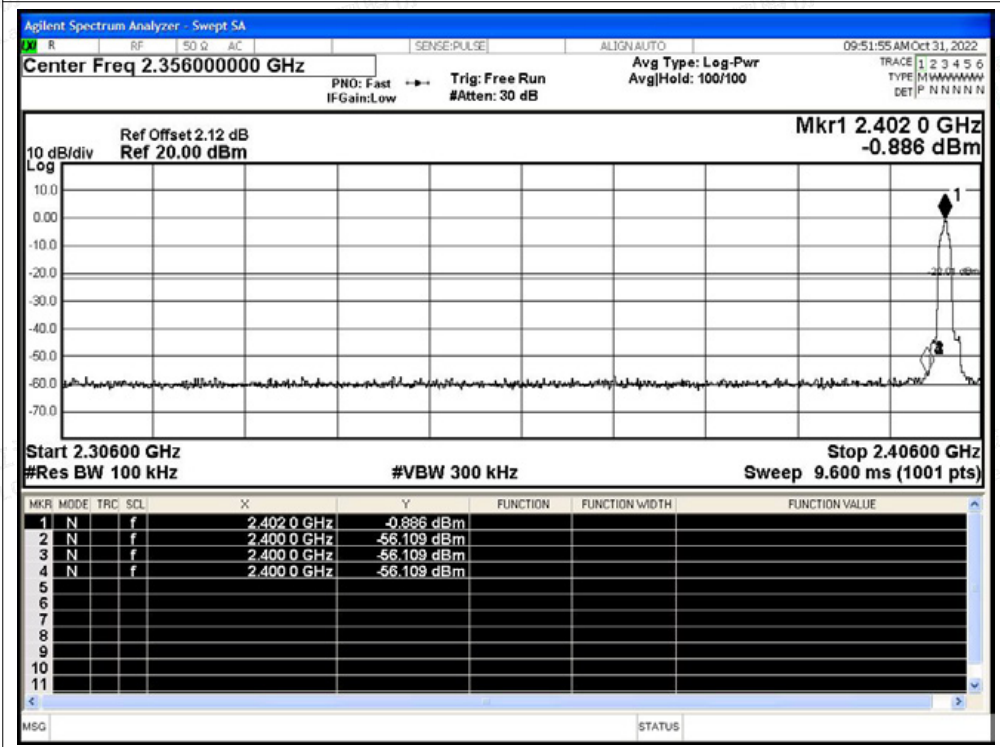




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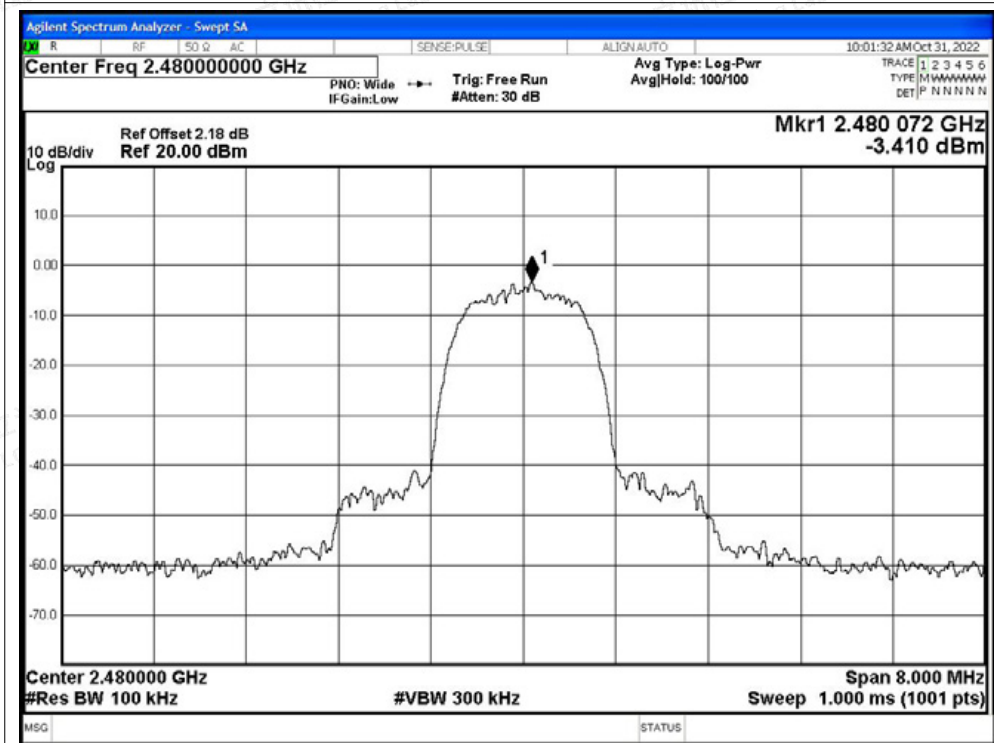


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

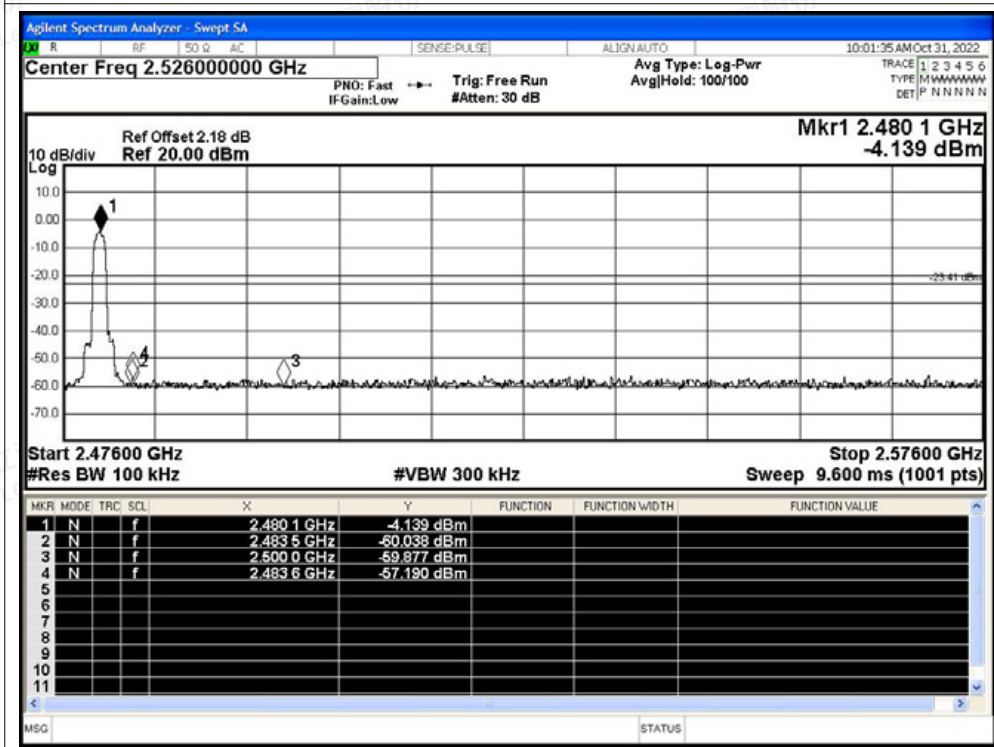




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.77	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.31	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.27	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.12	-20	Pass

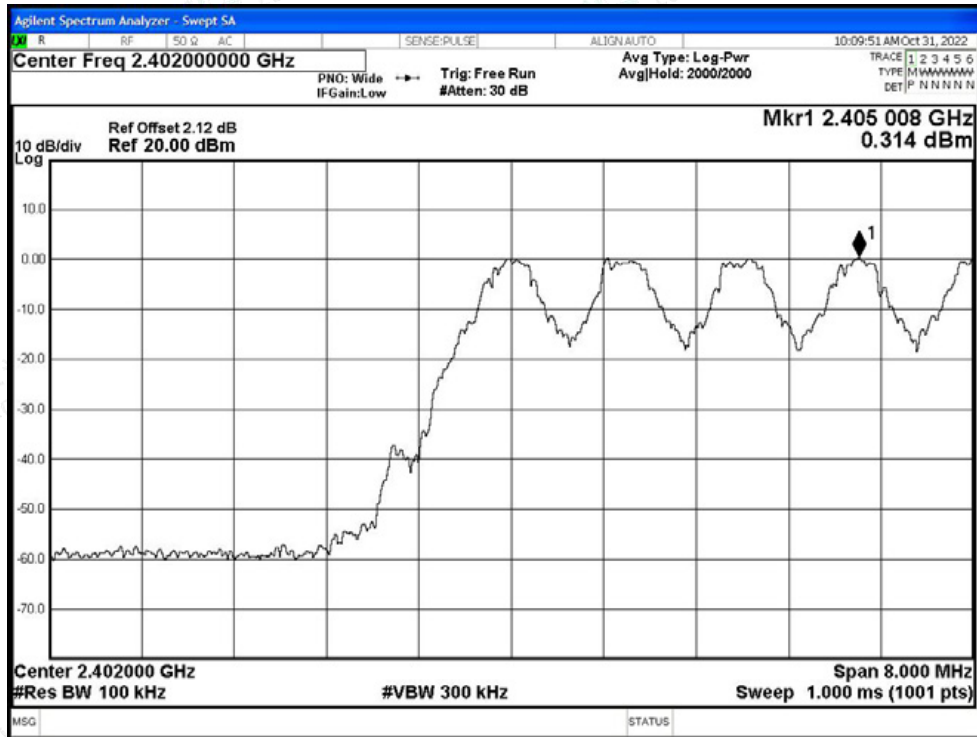


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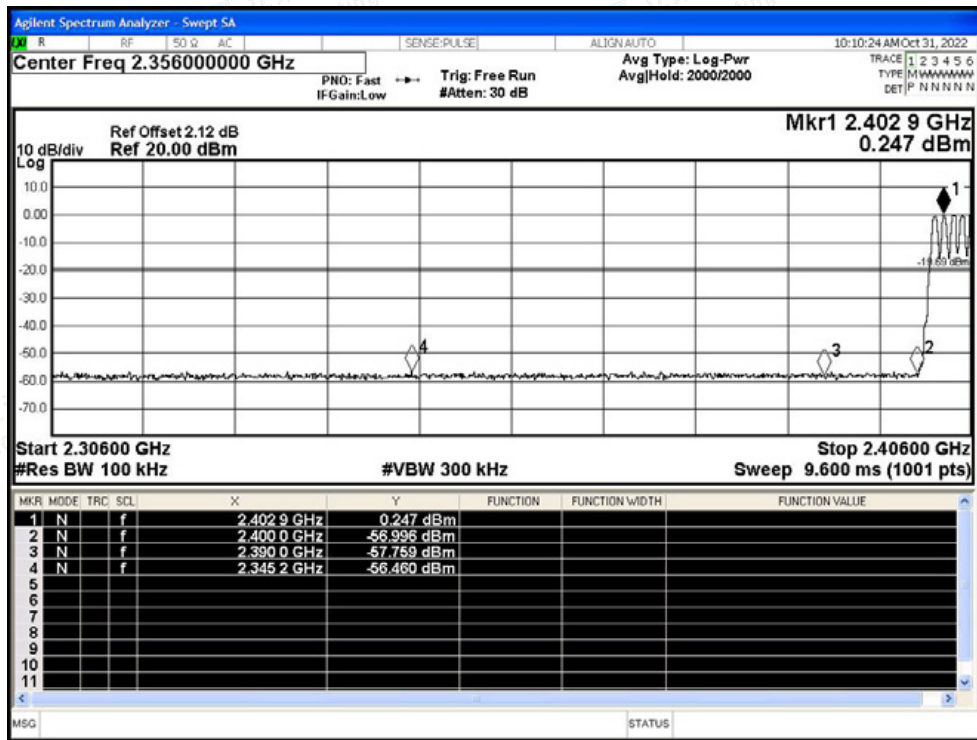


Test Graphs

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

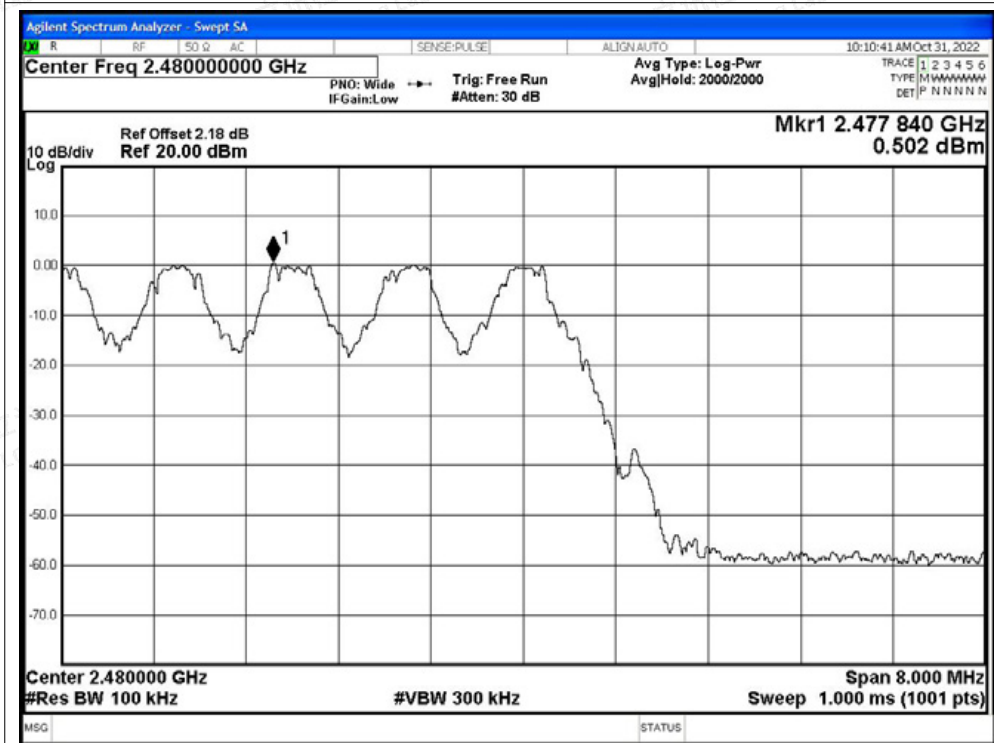


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

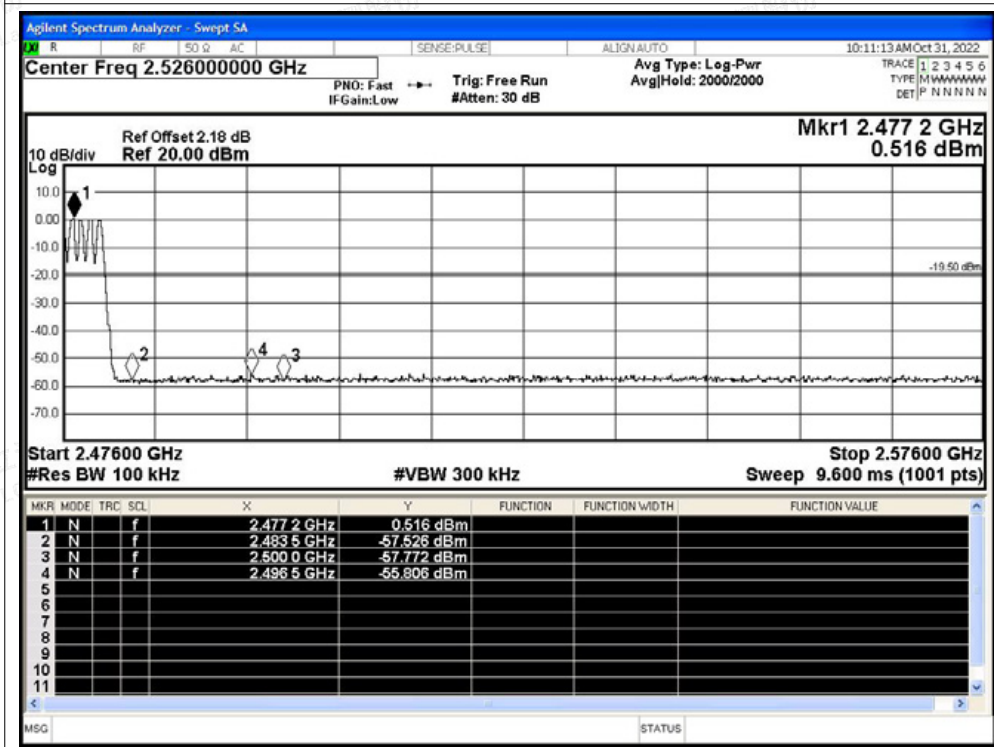




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

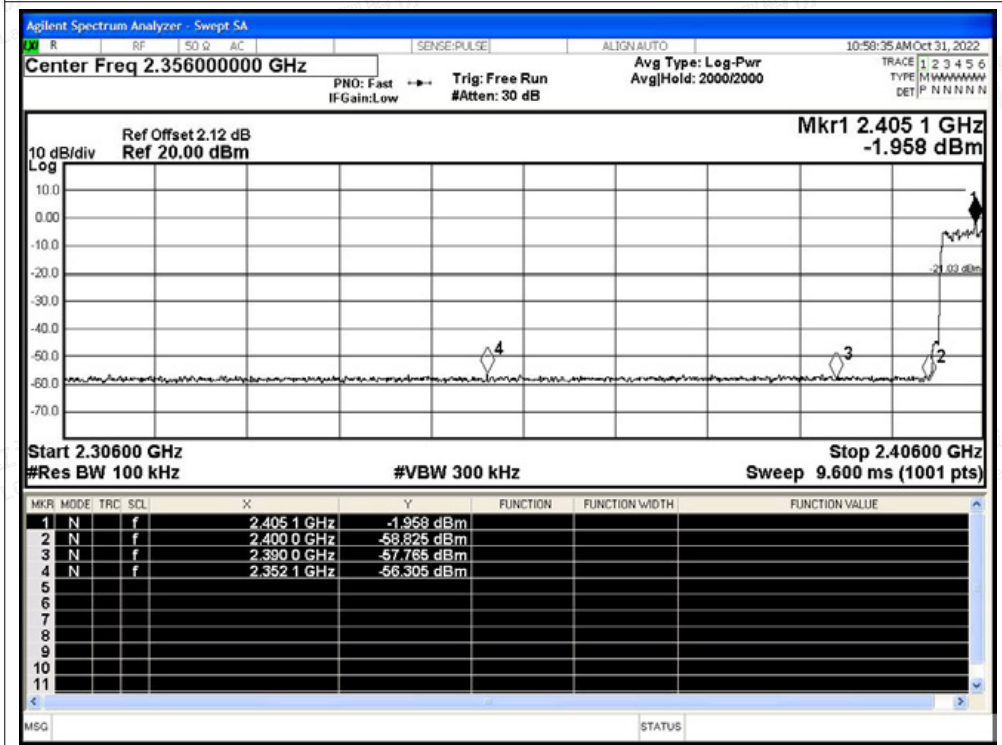




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

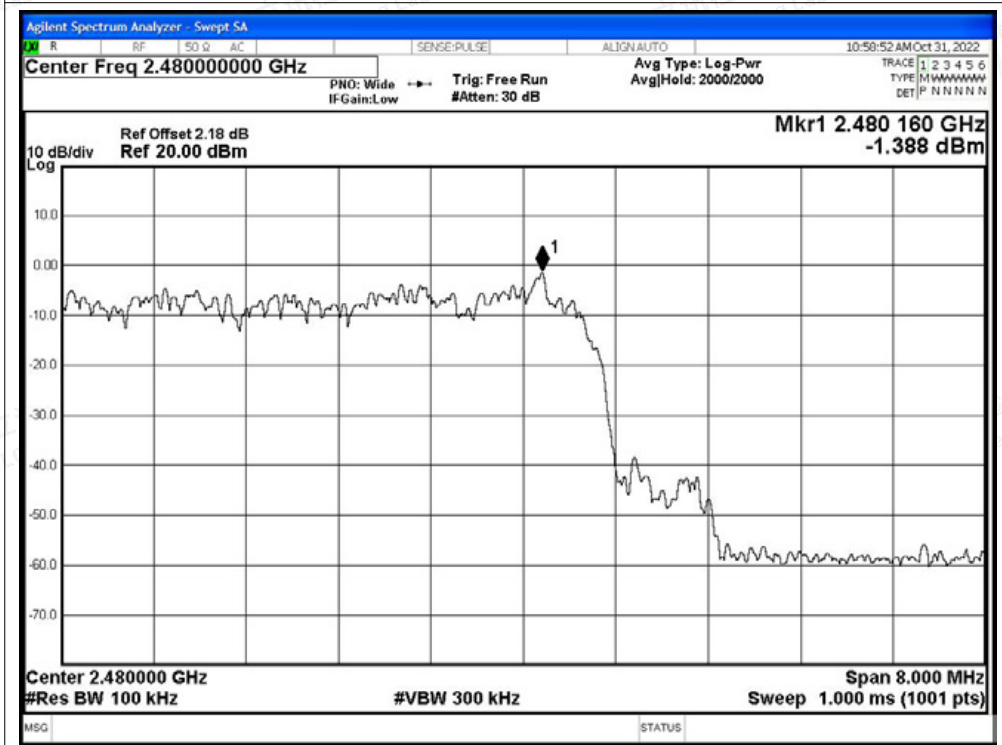


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

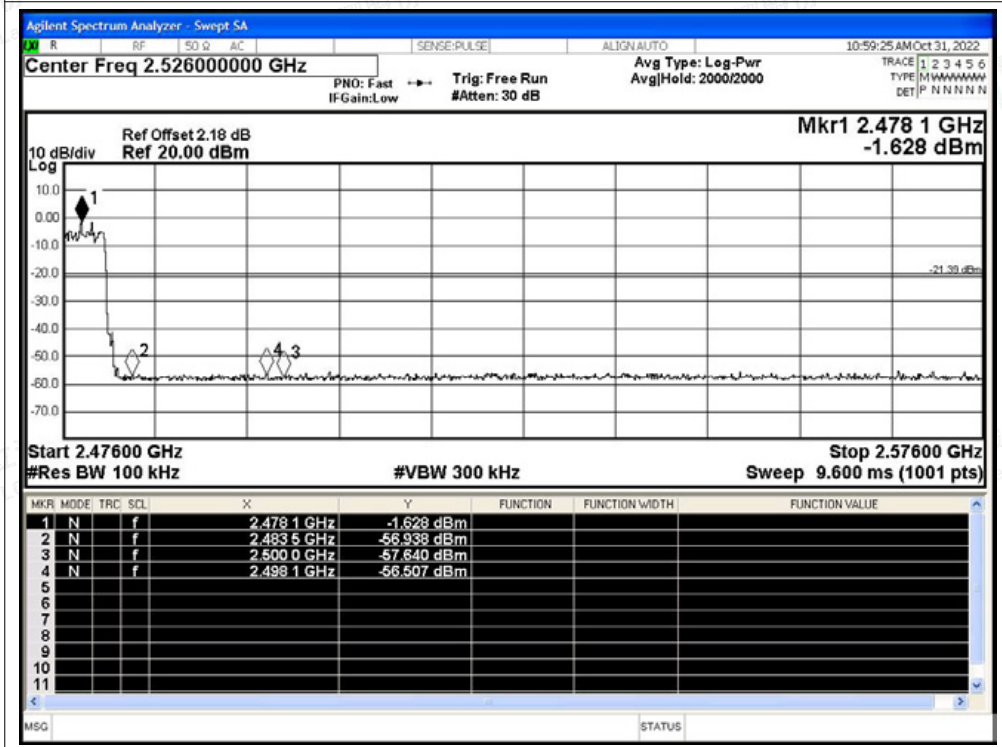




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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





B.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.17	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.88	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.39	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.92	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.92	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.22	-20	Pass

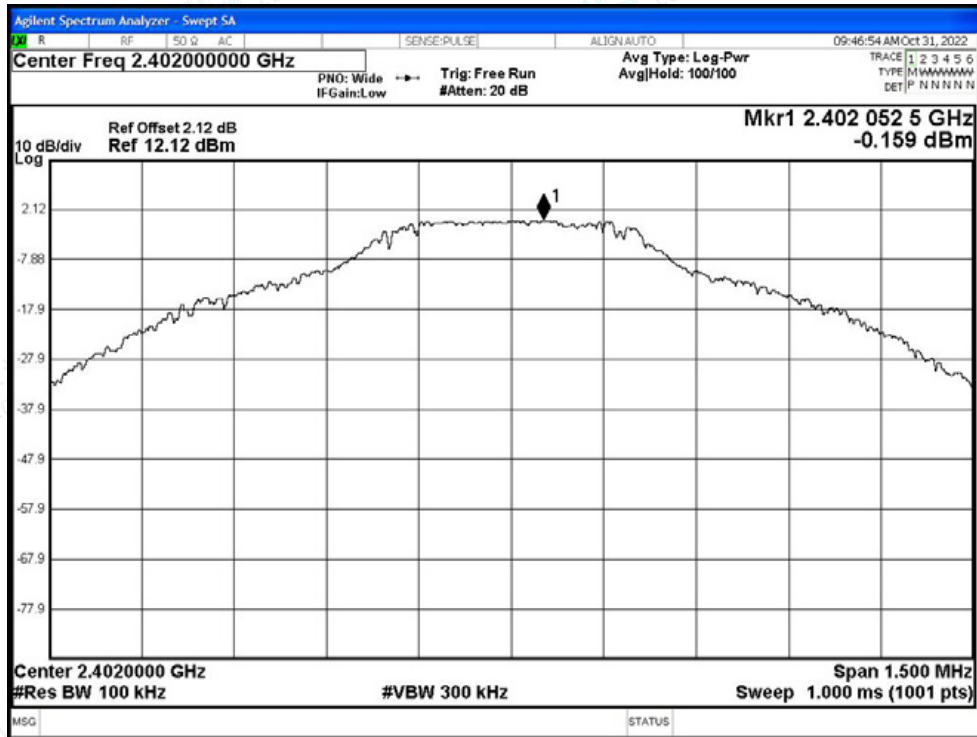


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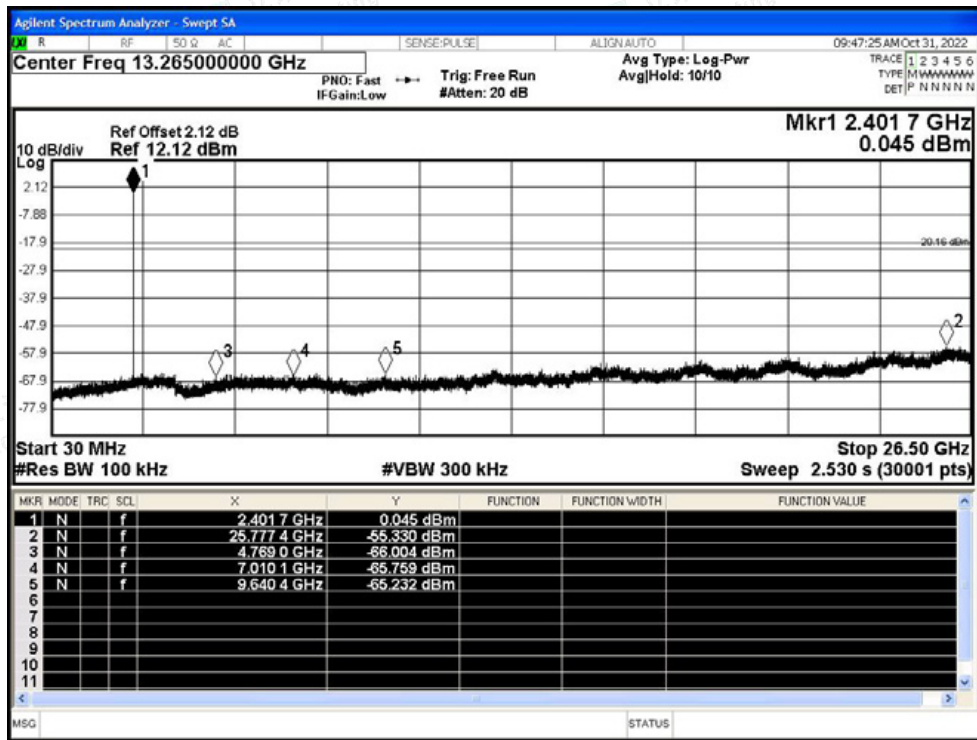


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

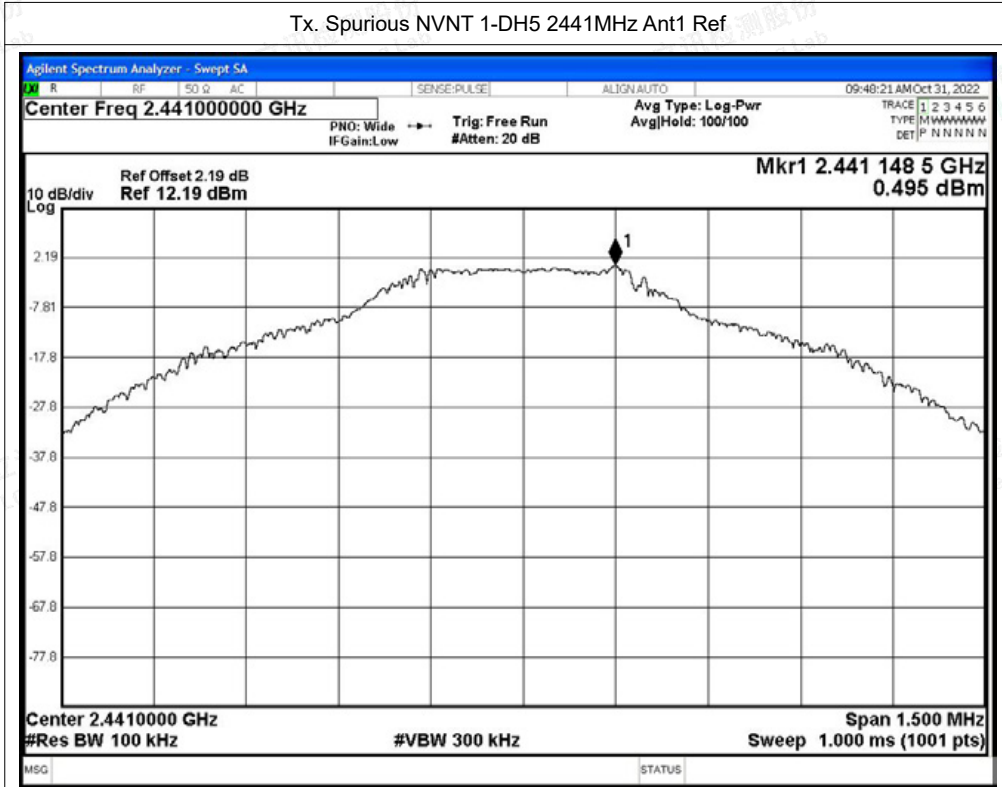


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

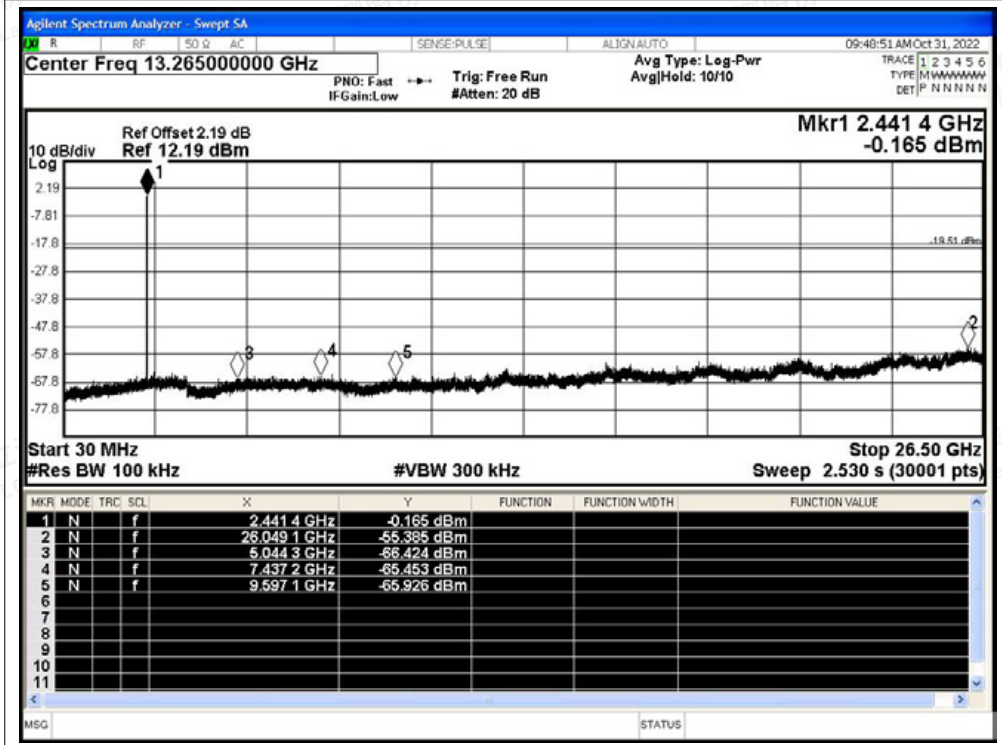




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

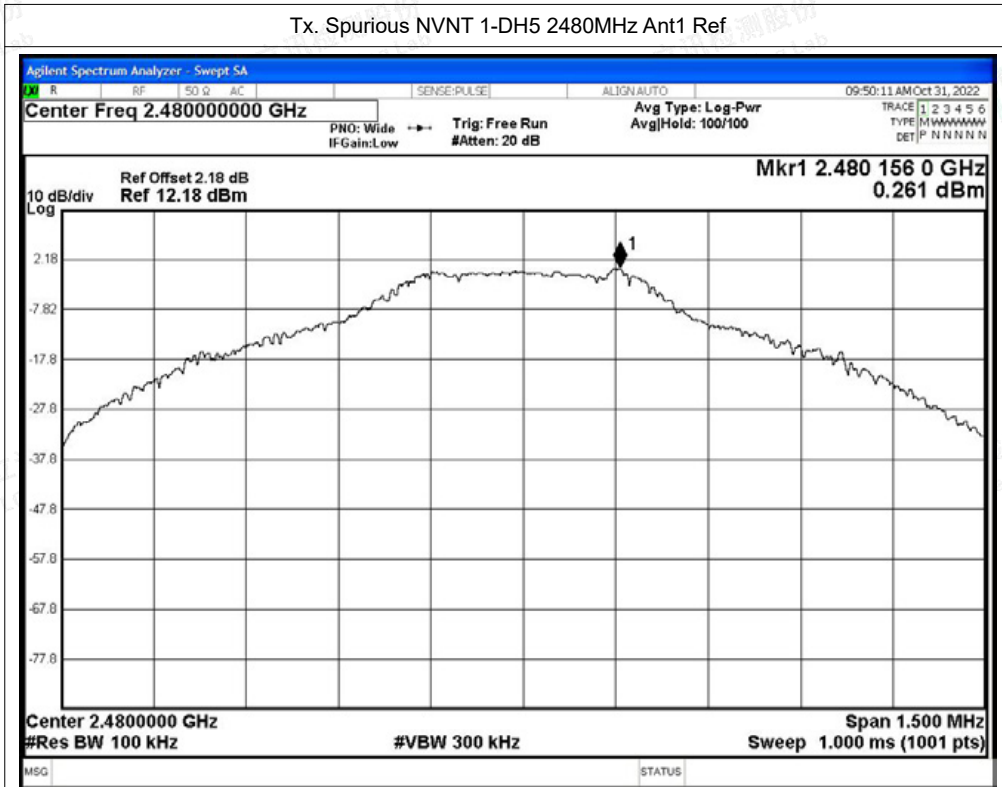


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

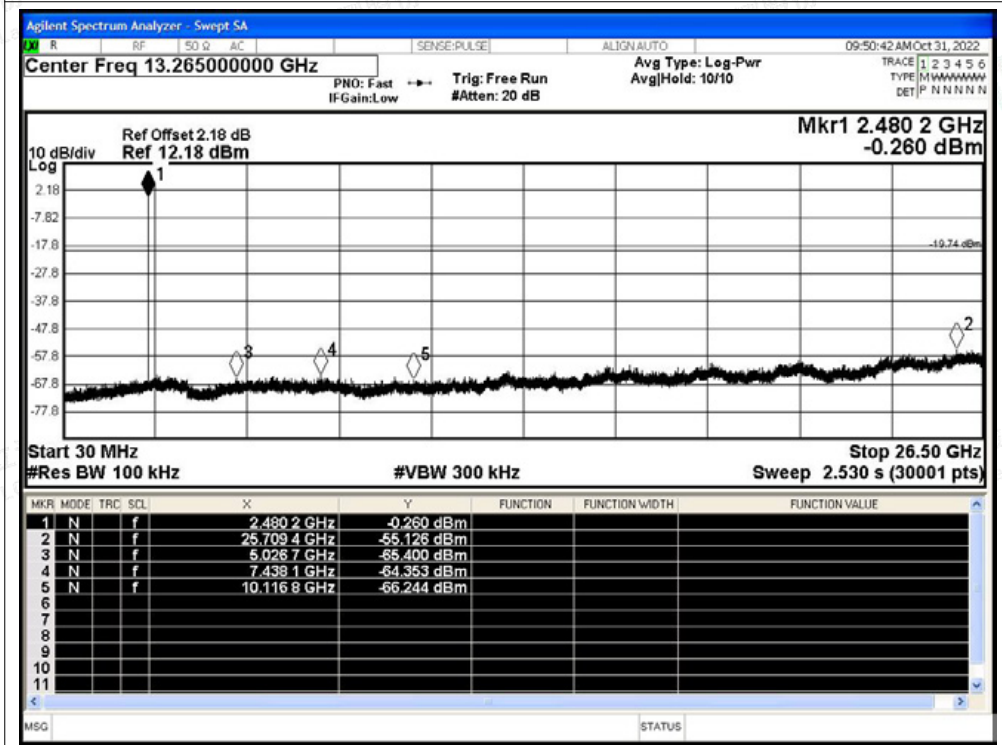




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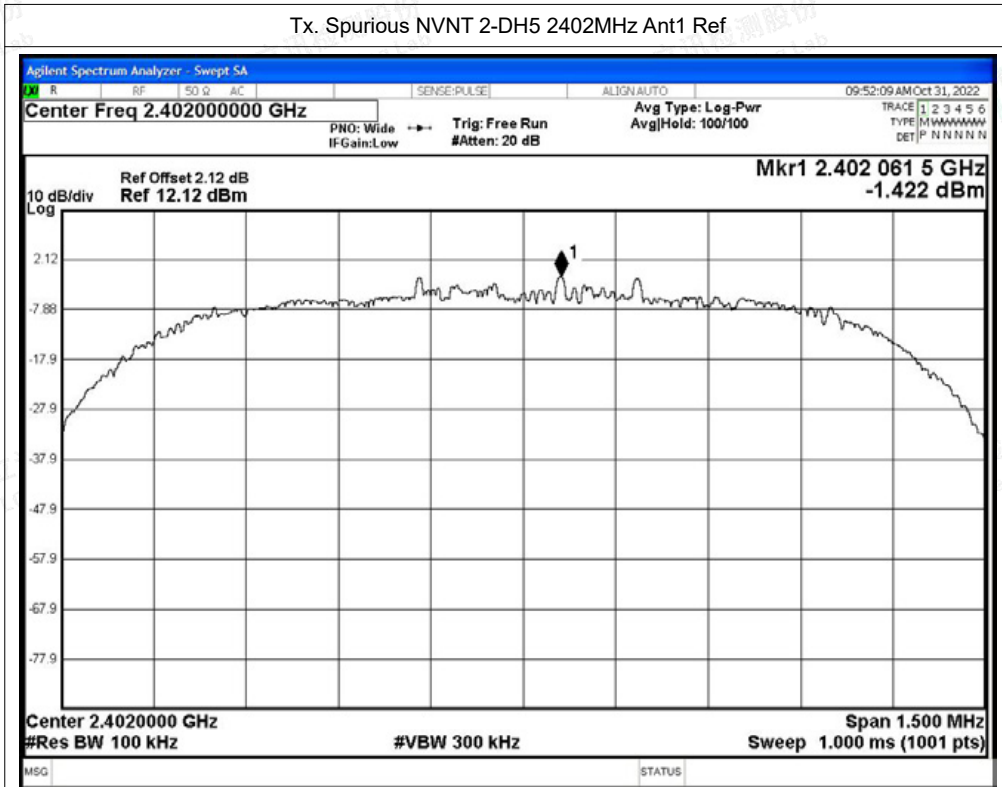


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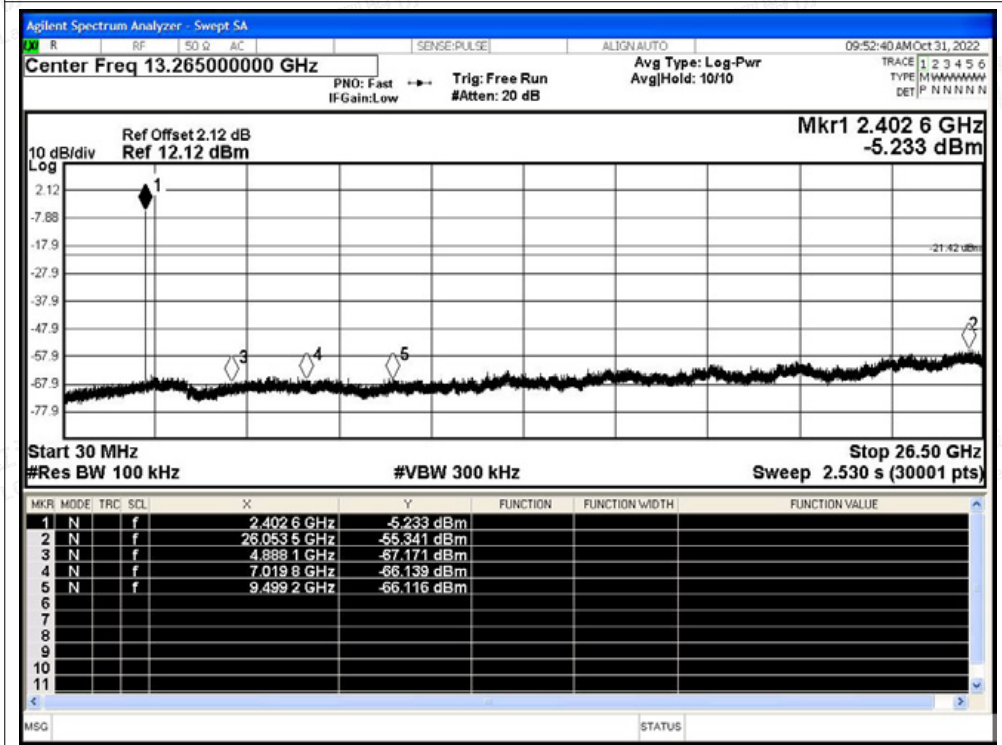




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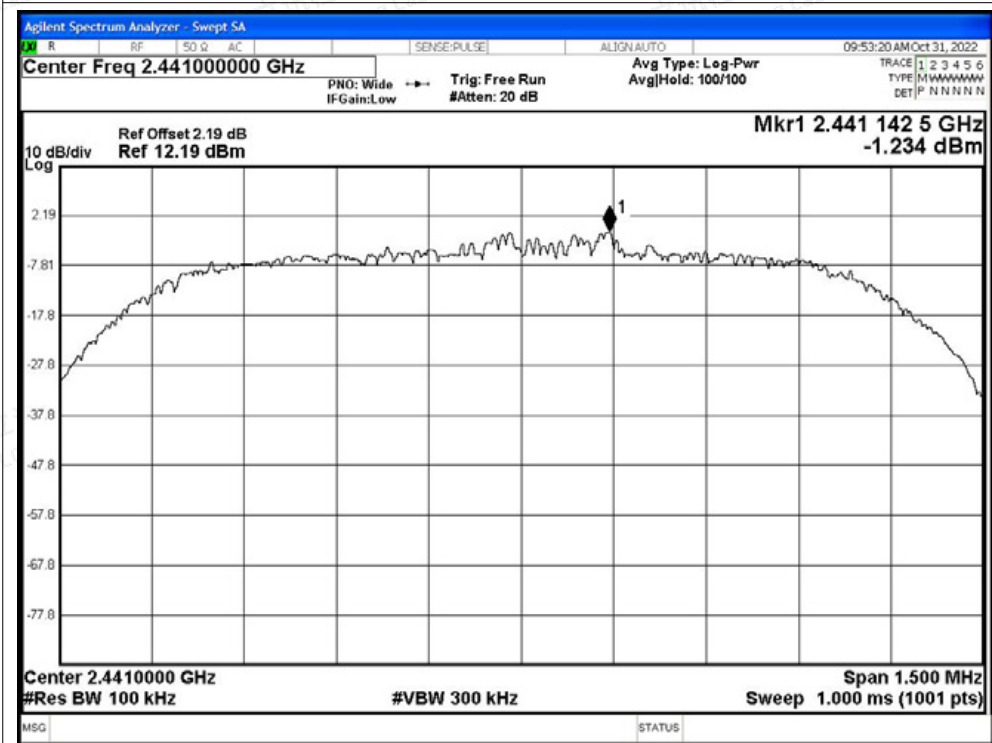


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

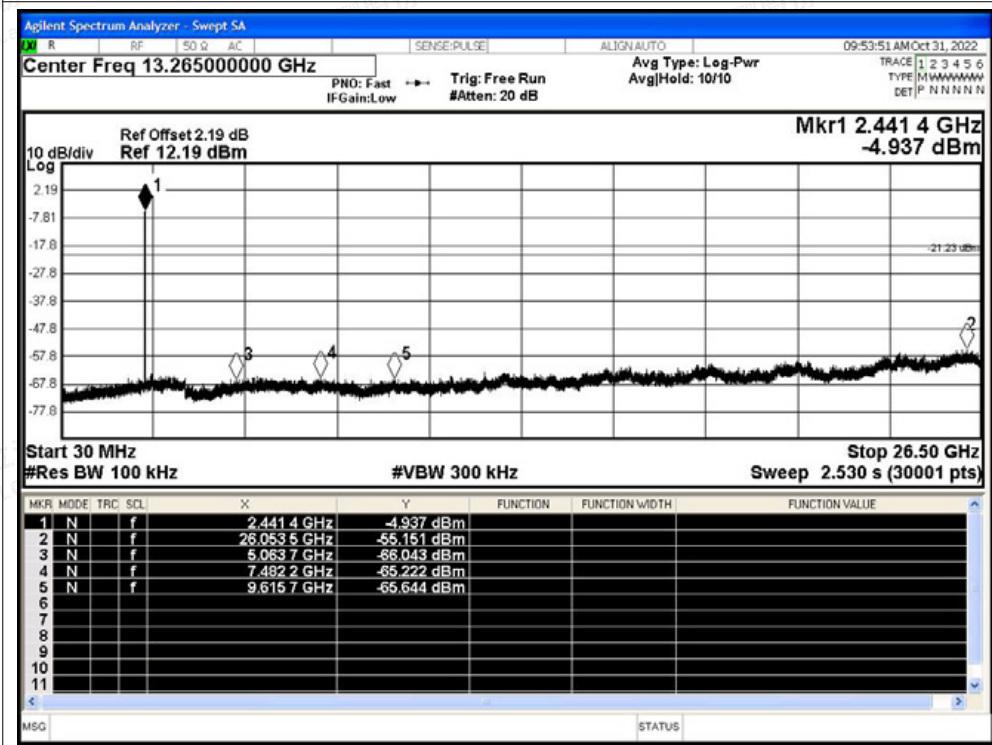




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

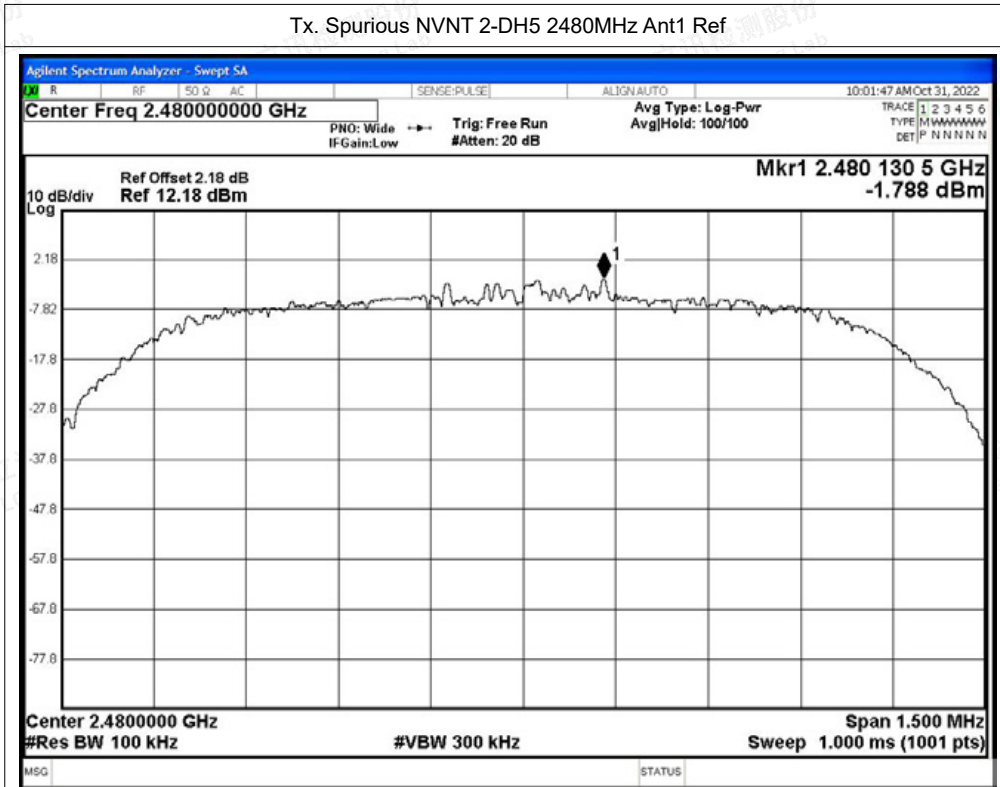


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

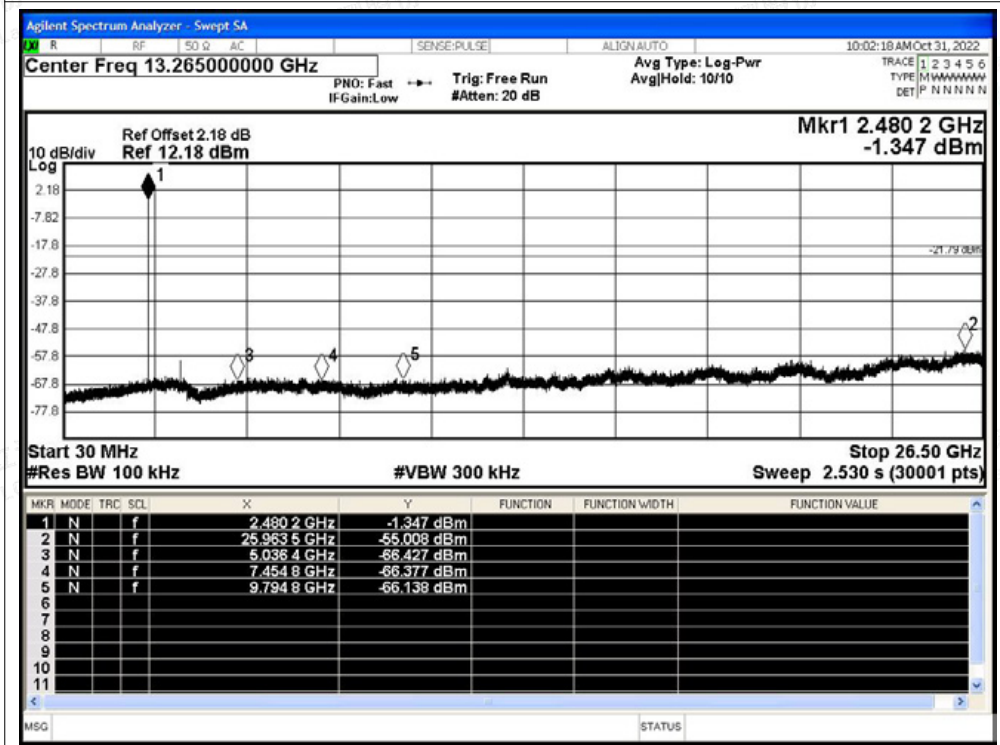




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





B.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	-49.95	2	47.31	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.36	2	36.9	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2320.272	-47.24	2	50.02	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.416	-59.83	2	37.43	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.02	2	47.24	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-59.9	2	37.36	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.48	2	47.78	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.41	2	37.85	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.688	-47.07	2	50.19	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.536	-59.37	2	37.89	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.53	2	47.73	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.76	2	37.5	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.48	2	46.78	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.41	2	36.85	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.872	-47.1	2	50.16	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2382.96	-59.86	2	37.4	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-47.55	2	49.71	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.04	2	37.22	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.4	2	46.86	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.51	2	37.75	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2487.472	-46.4	2	50.86	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-59.51	2	37.75	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.93	2	47.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.8	2	37.46	Average	54	Pass

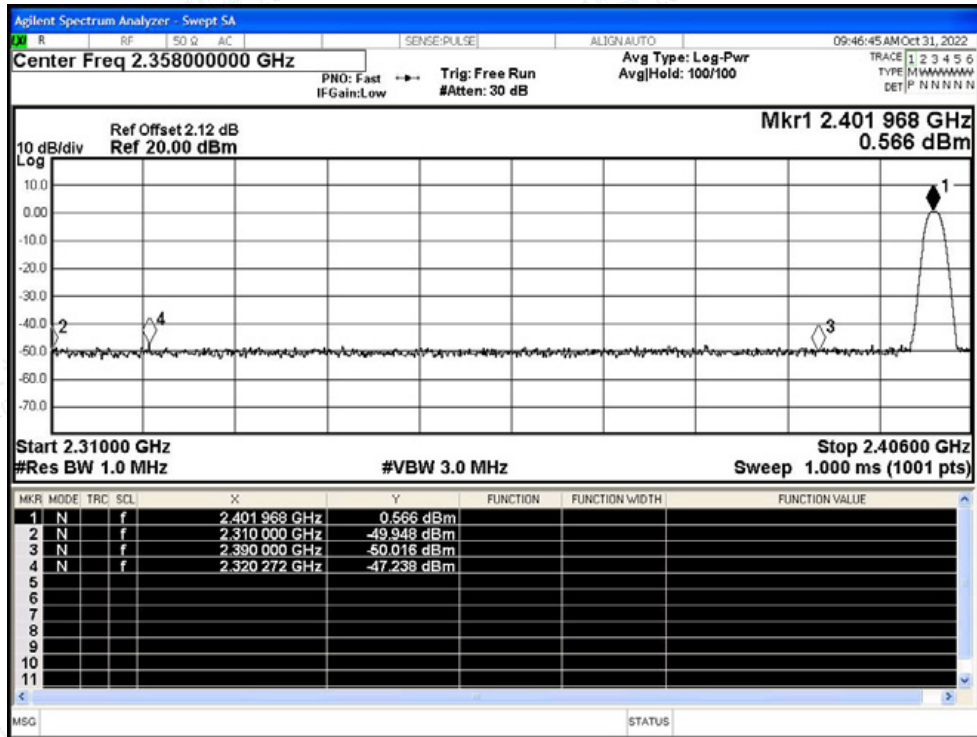


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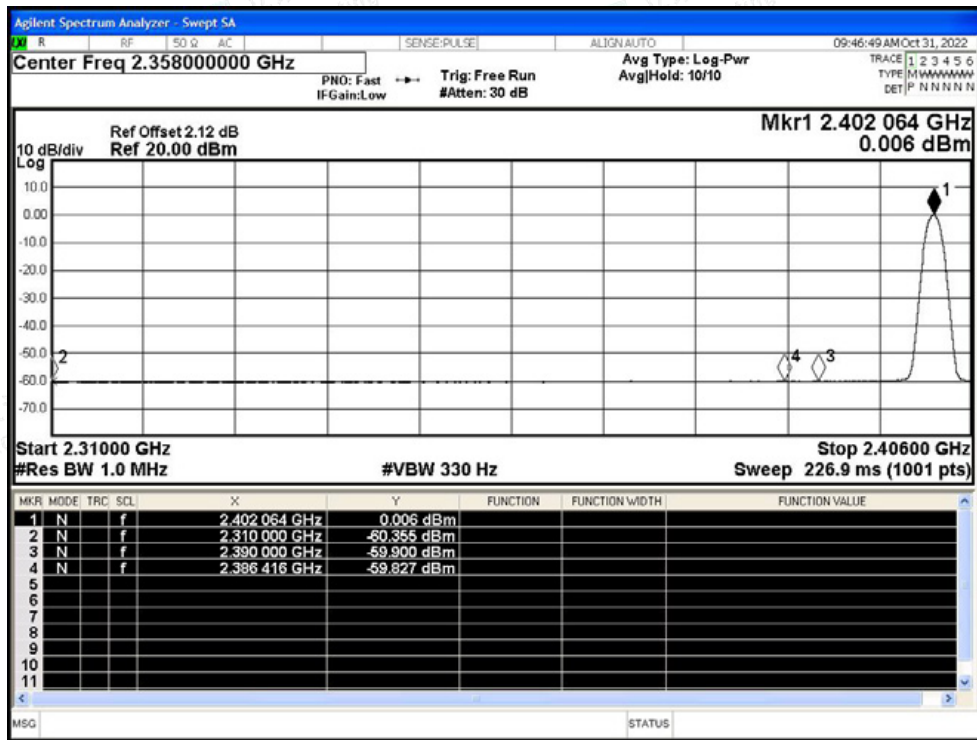


Test Graphs

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

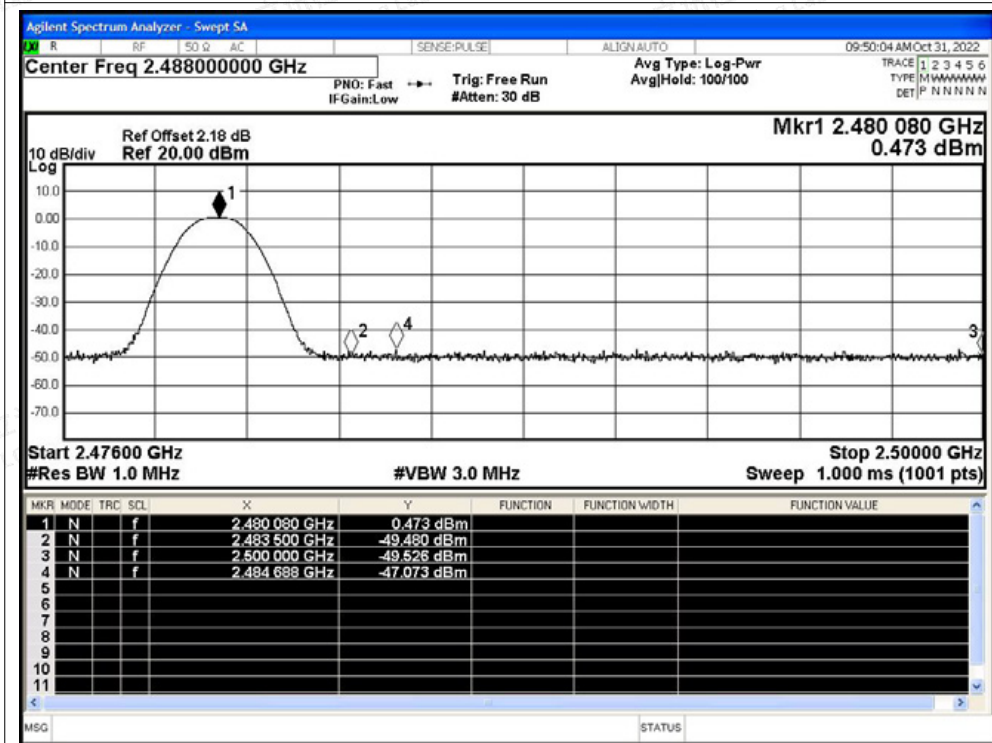


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

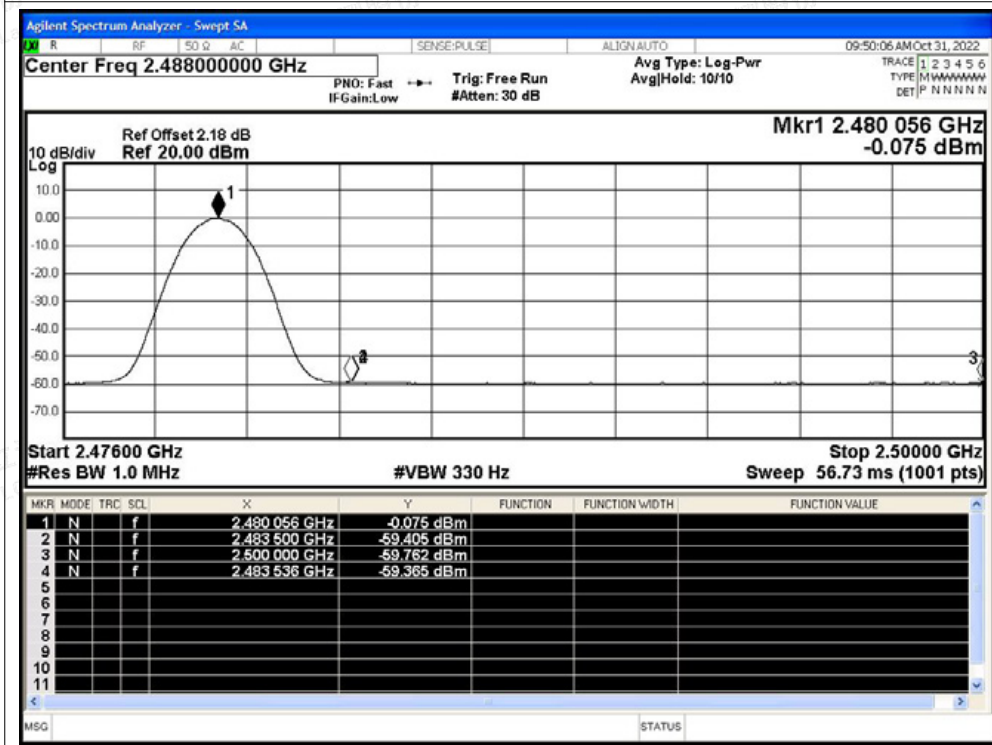




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

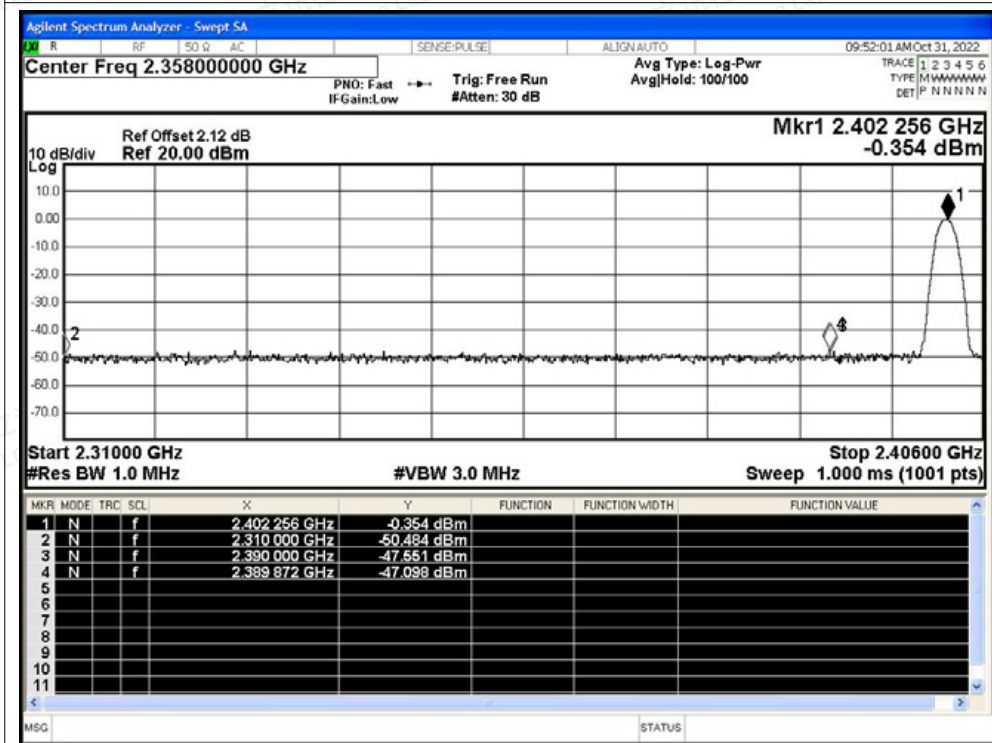


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

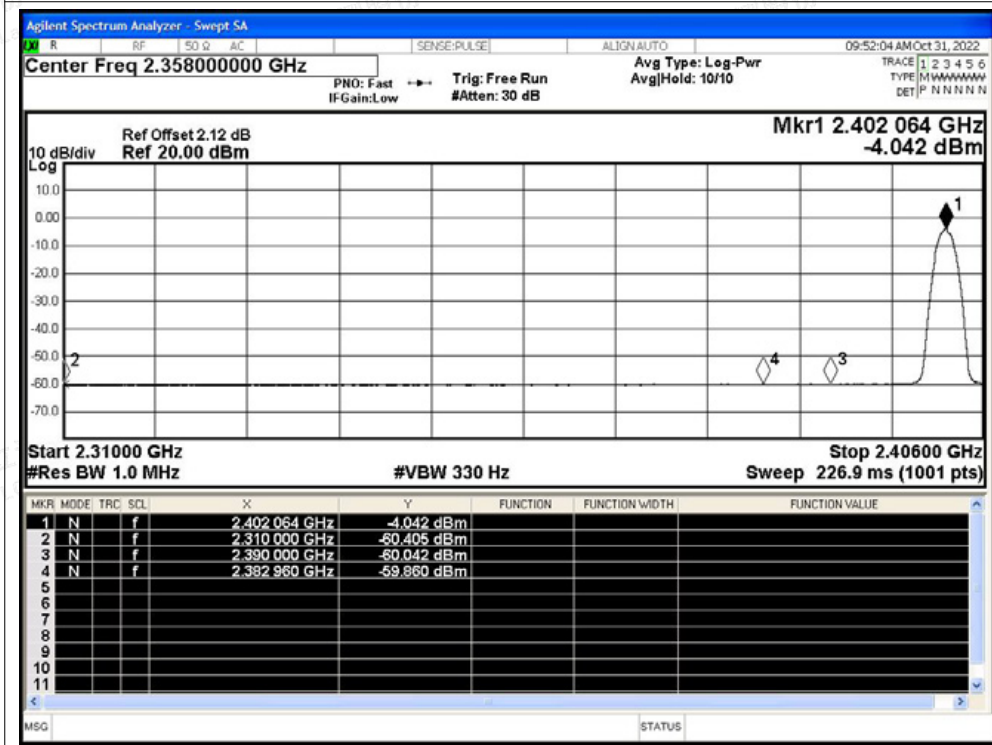




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

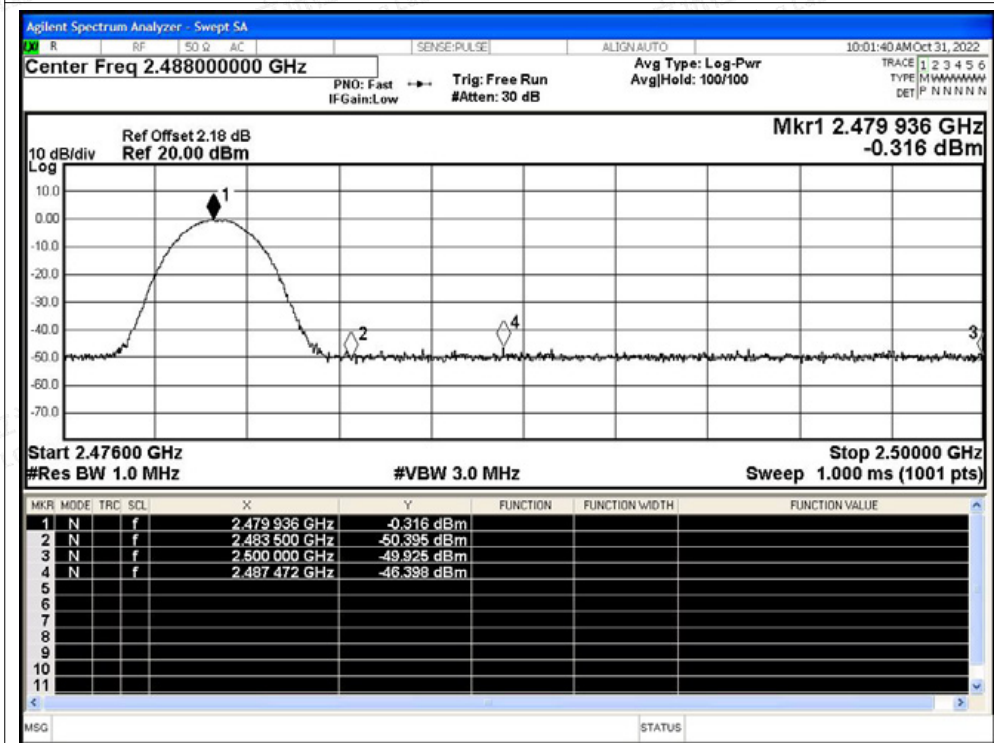


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

