



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: AVA Cinema Remote

Test Model: AVA-RM-RX2

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
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	1.017	--	Pass
NVNT	1-DH5	2441	Ant1	0.959	--	Pass
NVNT	1-DH5	2480	Ant1	0.963	--	Pass
NVNT	2-DH5	2402	Ant1	1.285	--	Pass
NVNT	2-DH5	2441	Ant1	1.283	--	Pass
NVNT	2-DH5	2480	Ant1	1.283	--	Pass
NVNT	3-DH5	2402	Ant1	1.3	--	Pass
NVNT	3-DH5	2441	Ant1	1.295	--	Pass
NVNT	3-DH5	2480	Ant1	1.293	--	Pass

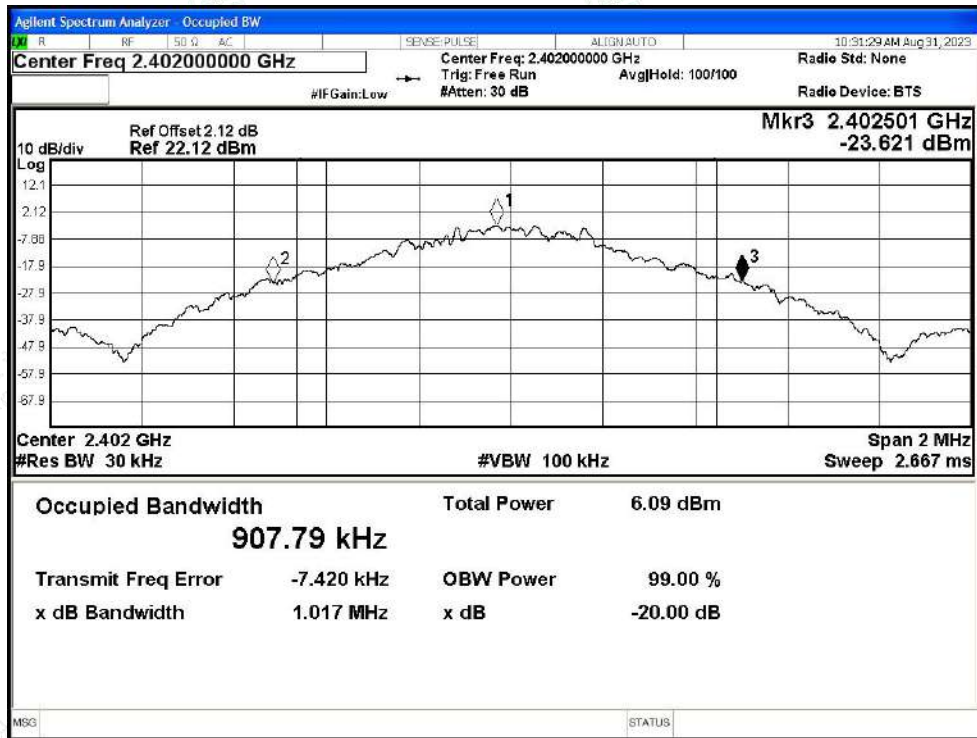


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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

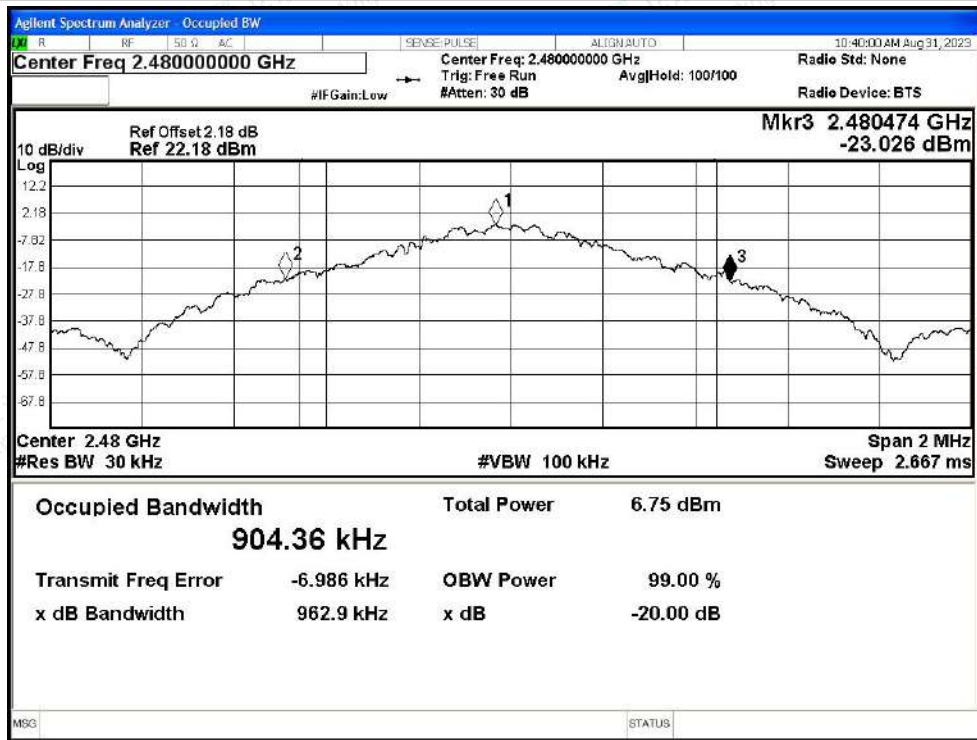


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

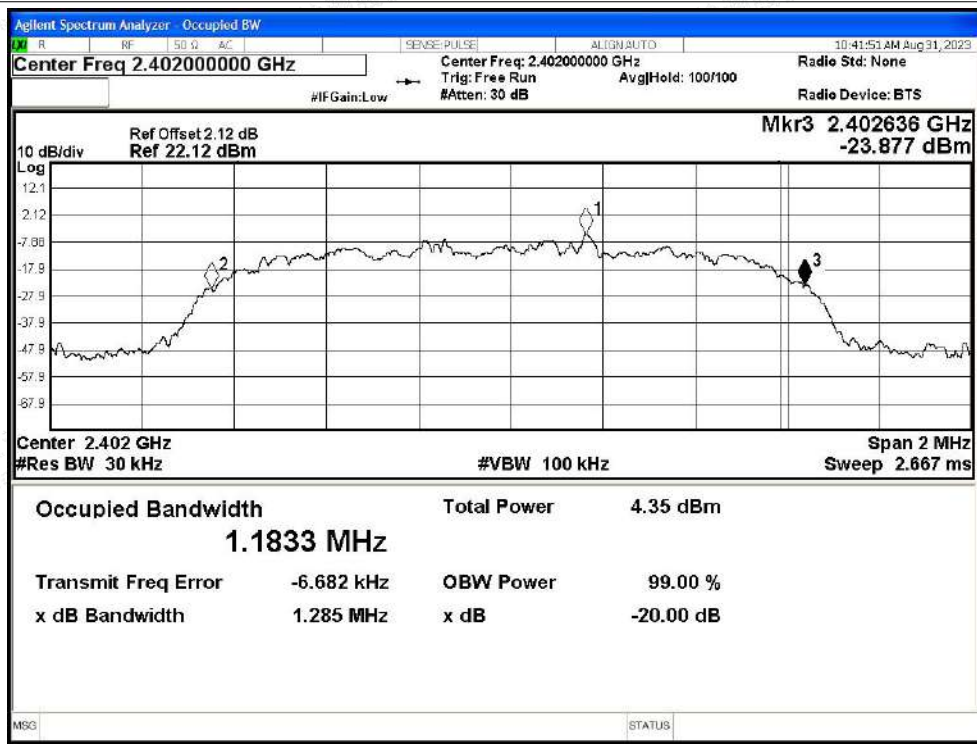




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1





-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

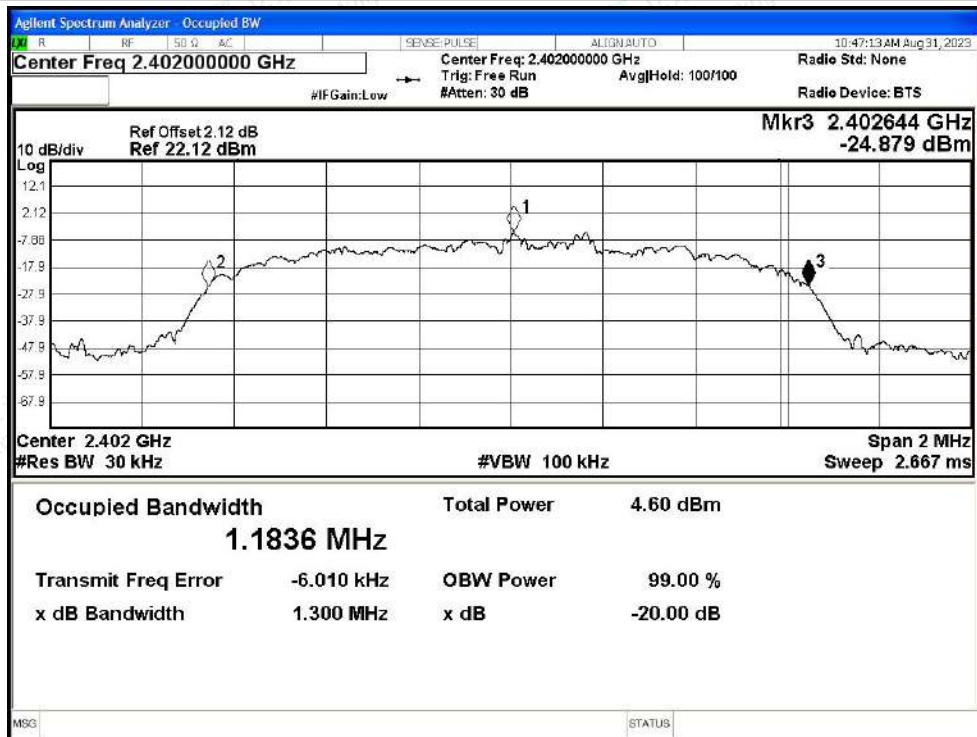


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

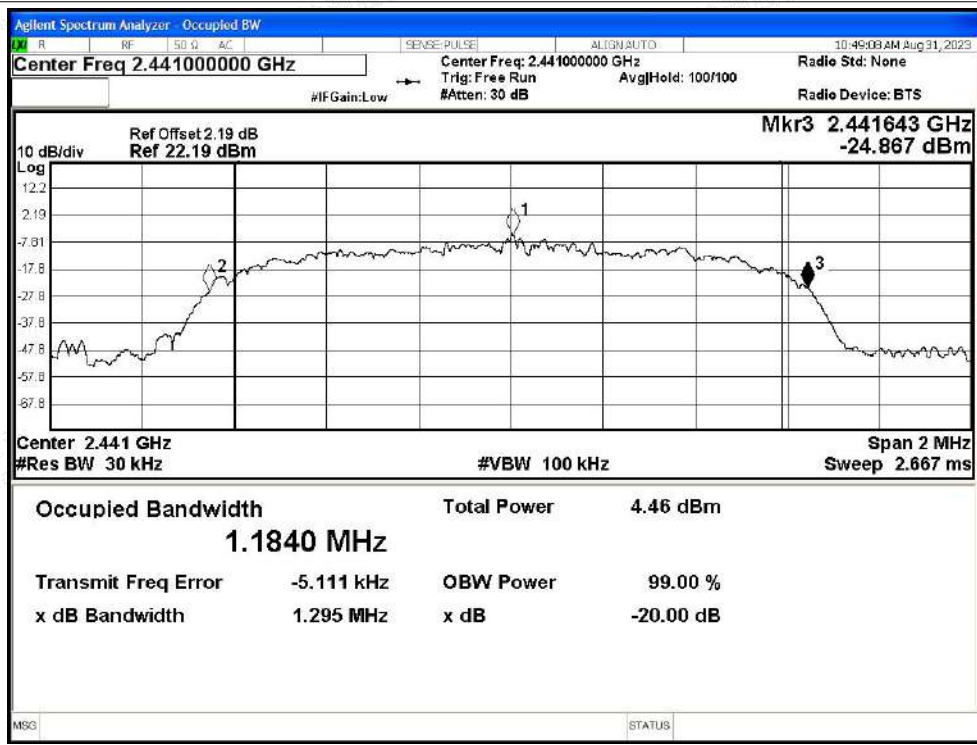




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

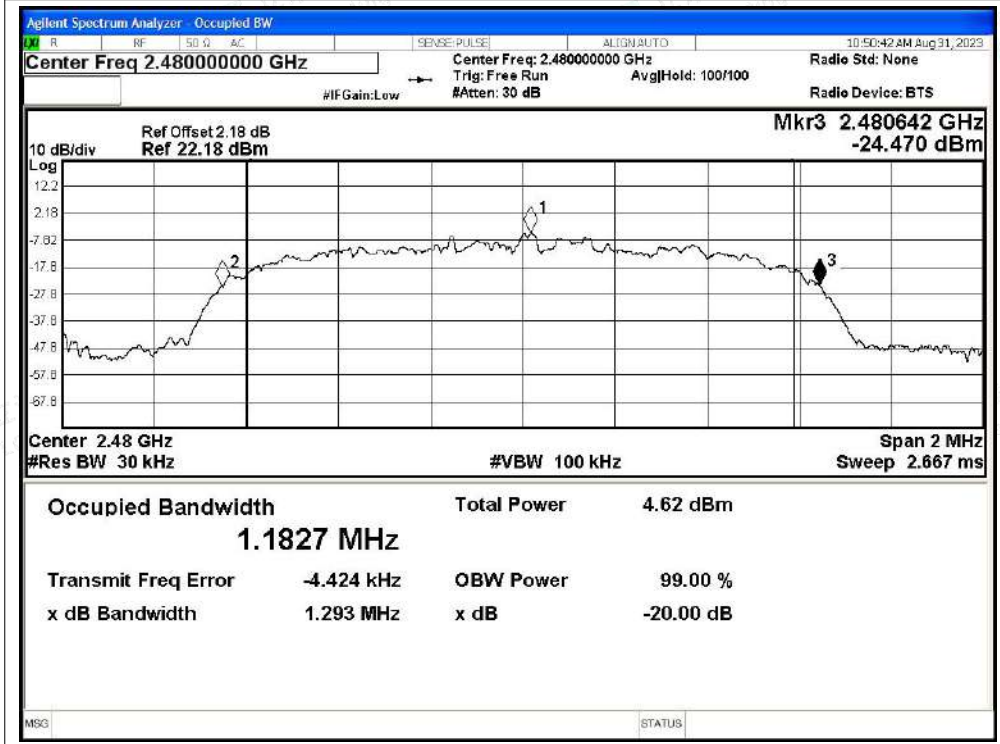


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

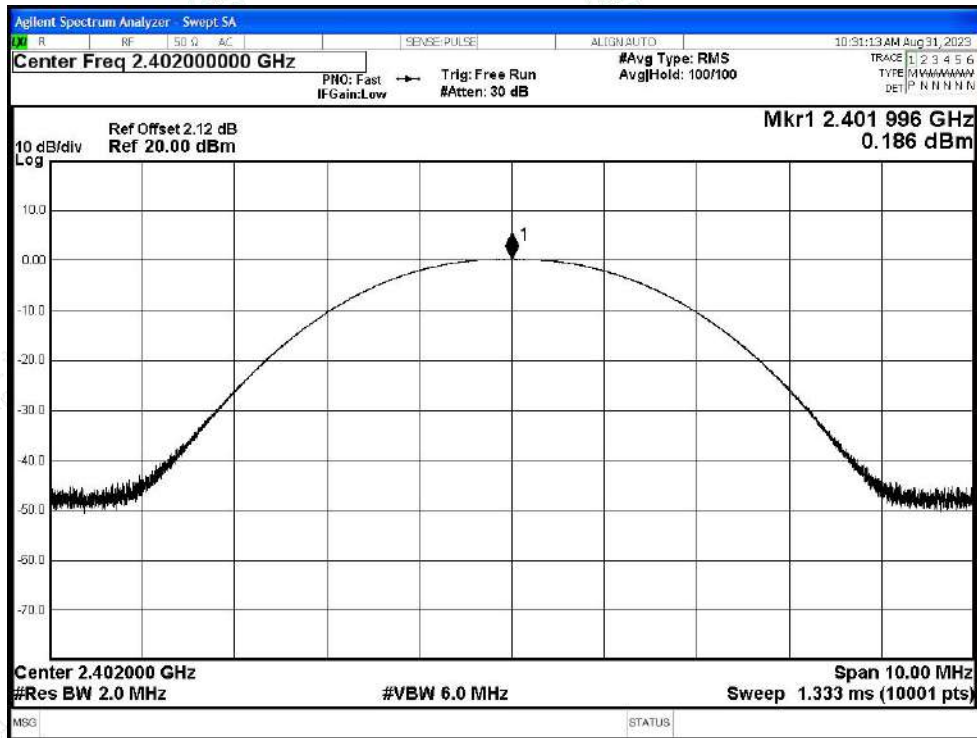
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.19	21	Pass
NVNT	1-DH5	2441	Ant1	0.76	21	Pass
NVNT	1-DH5	2480	Ant1	0.78	21	Pass
NVNT	2-DH5	2402	Ant1	0.00	21	Pass
NVNT	2-DH5	2441	Ant1	0.16	21	Pass
NVNT	2-DH5	2480	Ant1	0.19	21	Pass
NVNT	3-DH5	2402	Ant1	0.10	21	Pass
NVNT	3-DH5	2441	Ant1	0.60	21	Pass
NVNT	3-DH5	2480	Ant1	0.29	21	Pass



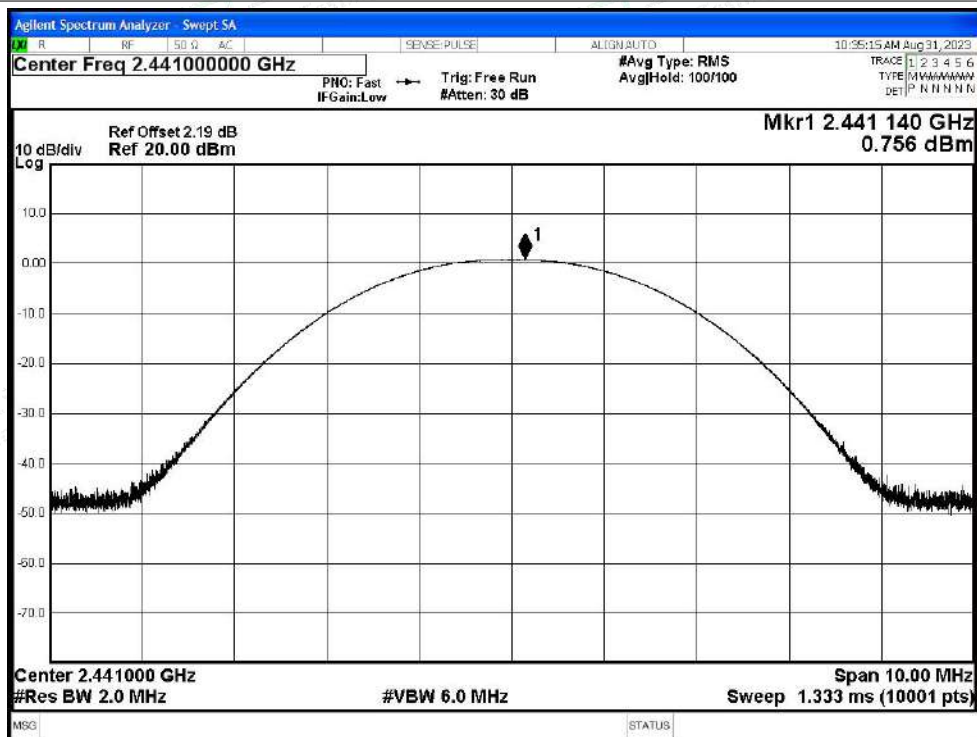


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

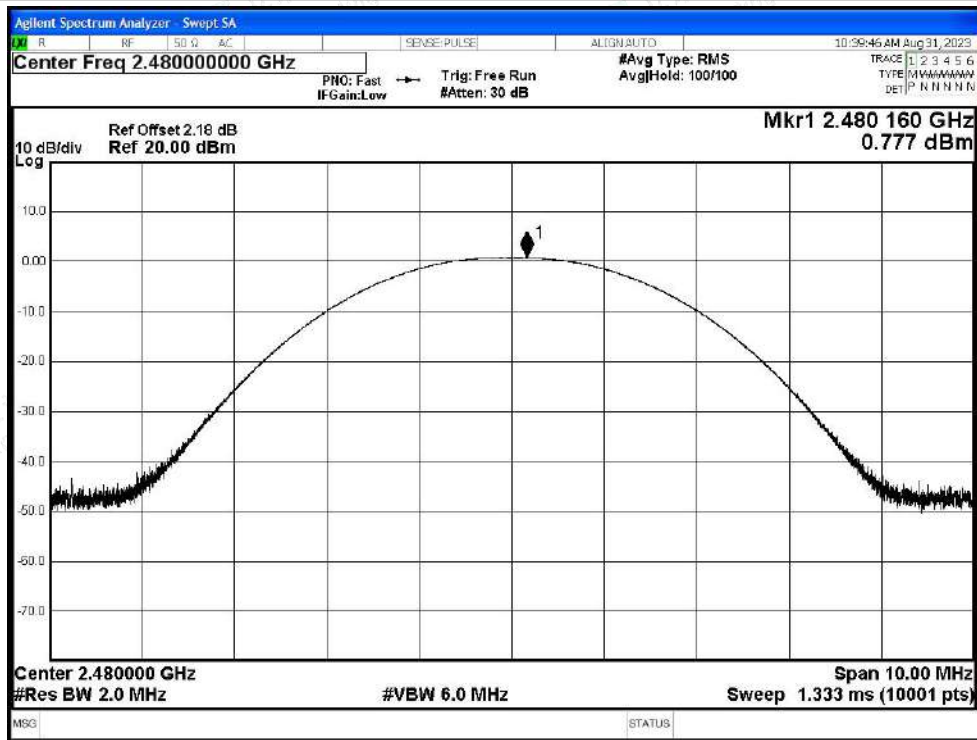


Power NVNT 1-DH5 2441MHz Ant1

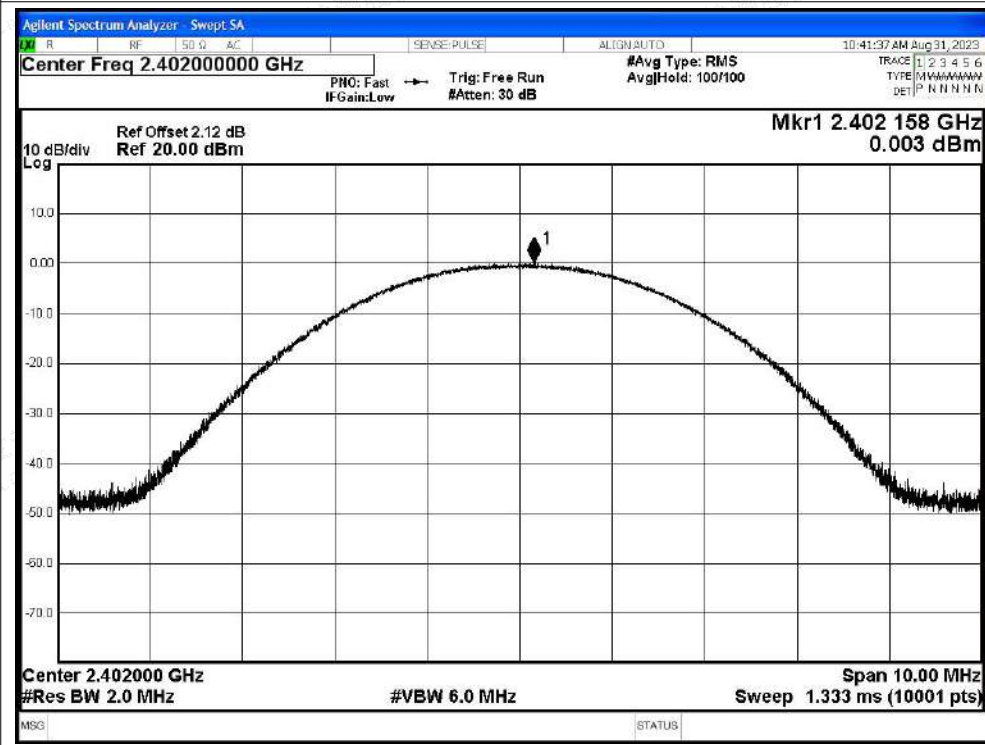




Power NVNT 1-DH5 2480MHz Ant1

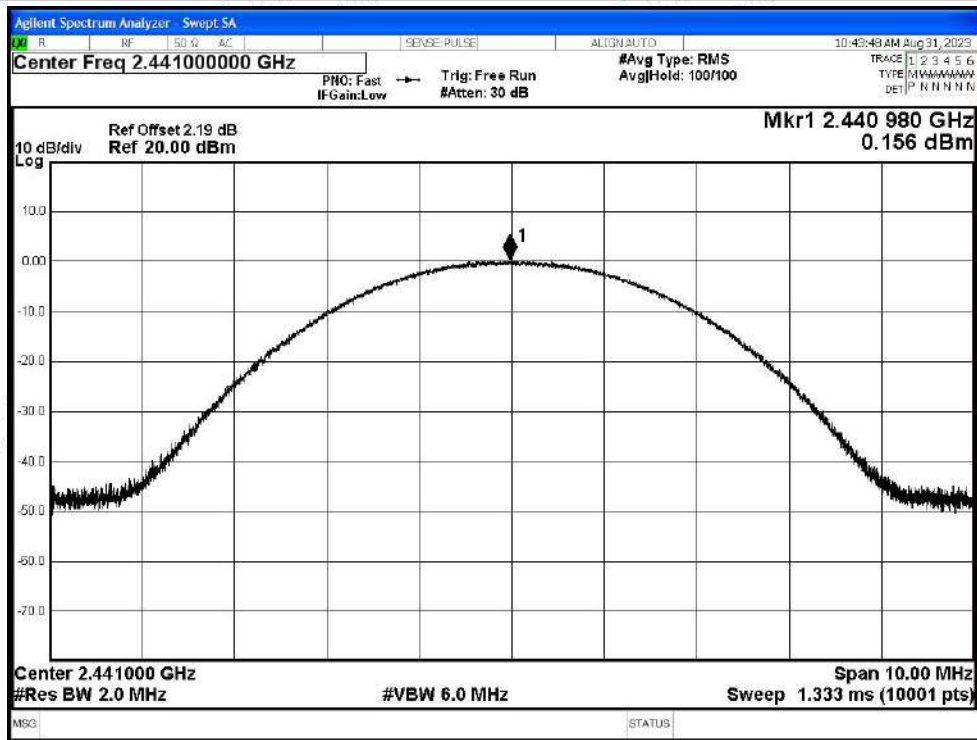


Power NVNT 2-DH5 2402MHz Ant1

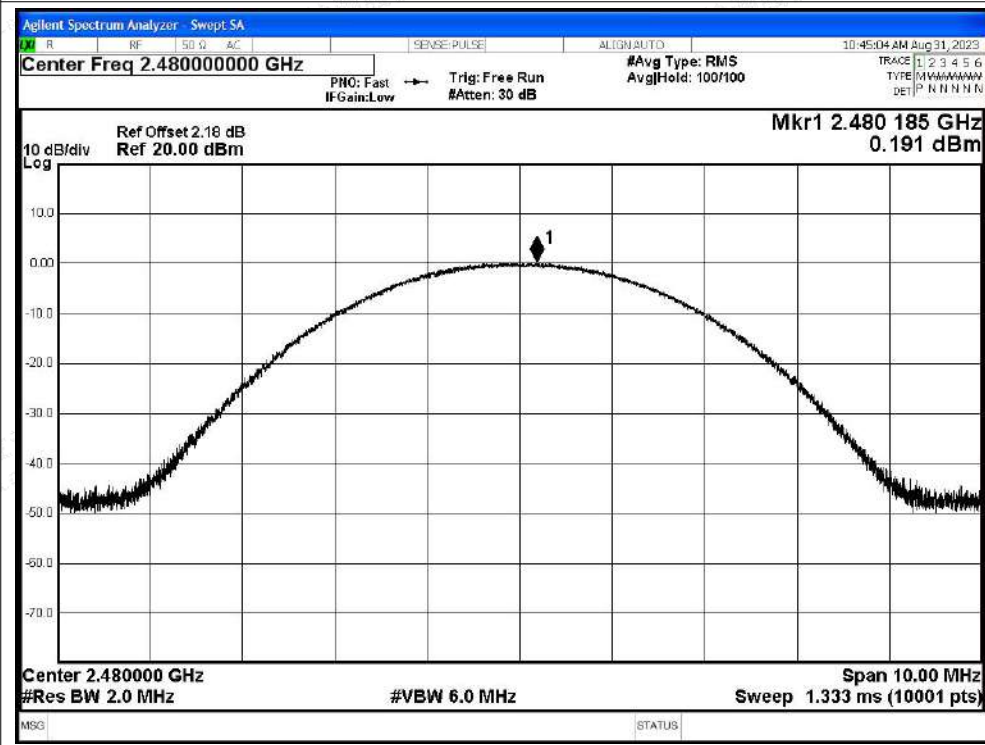




Power NVNT 2-DH5 2441MHz Ant1

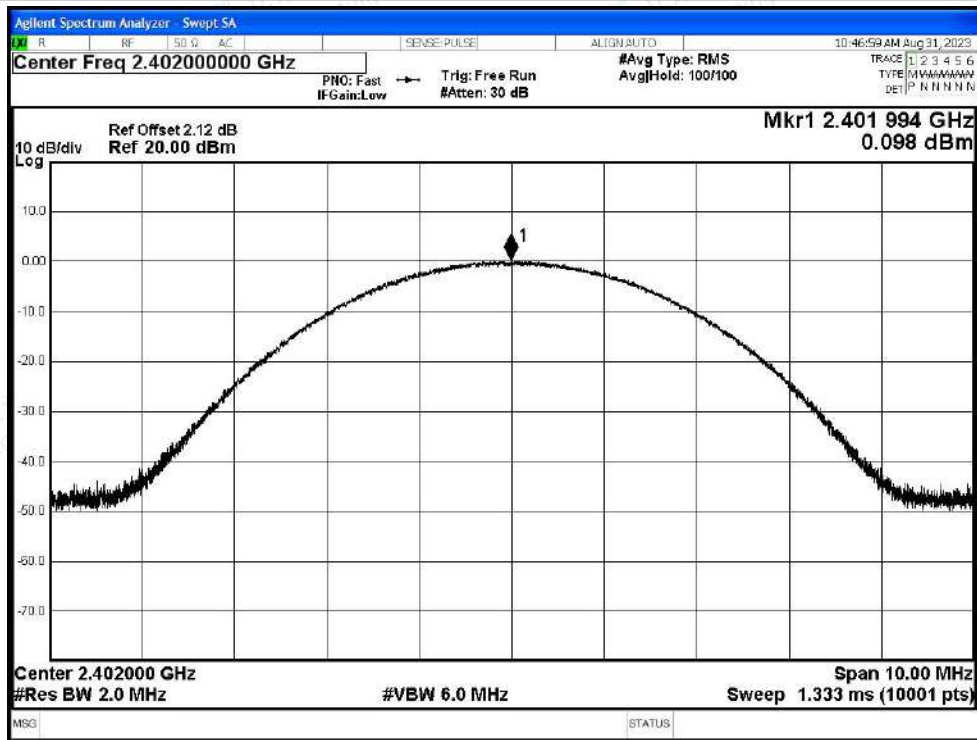


Power NVNT 2-DH5 2480MHz Ant1

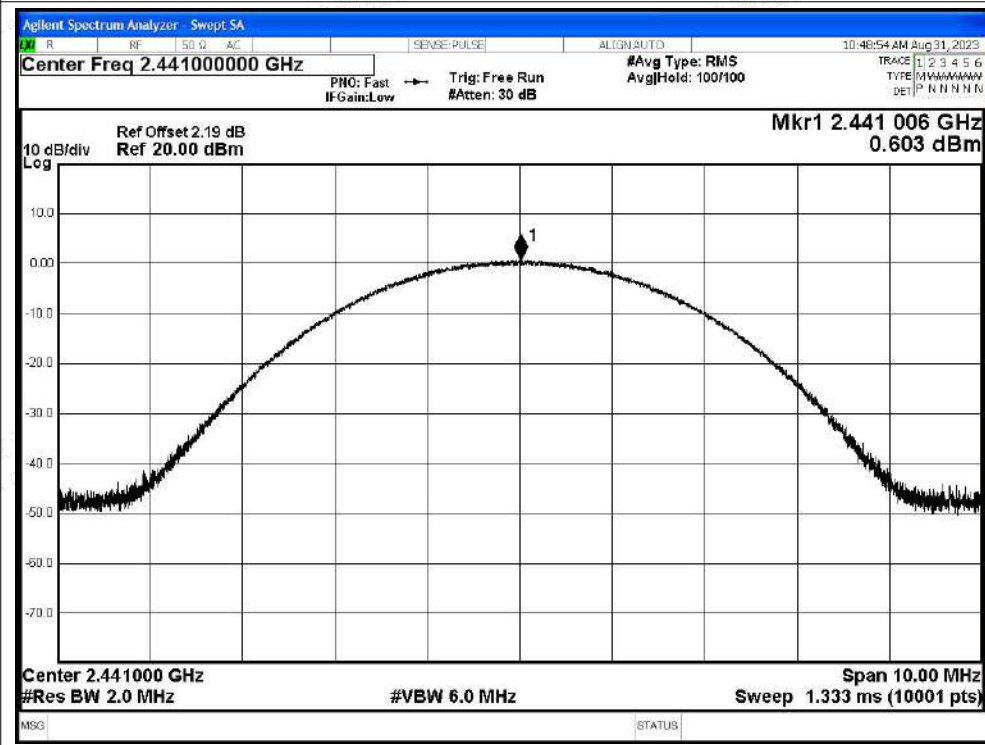


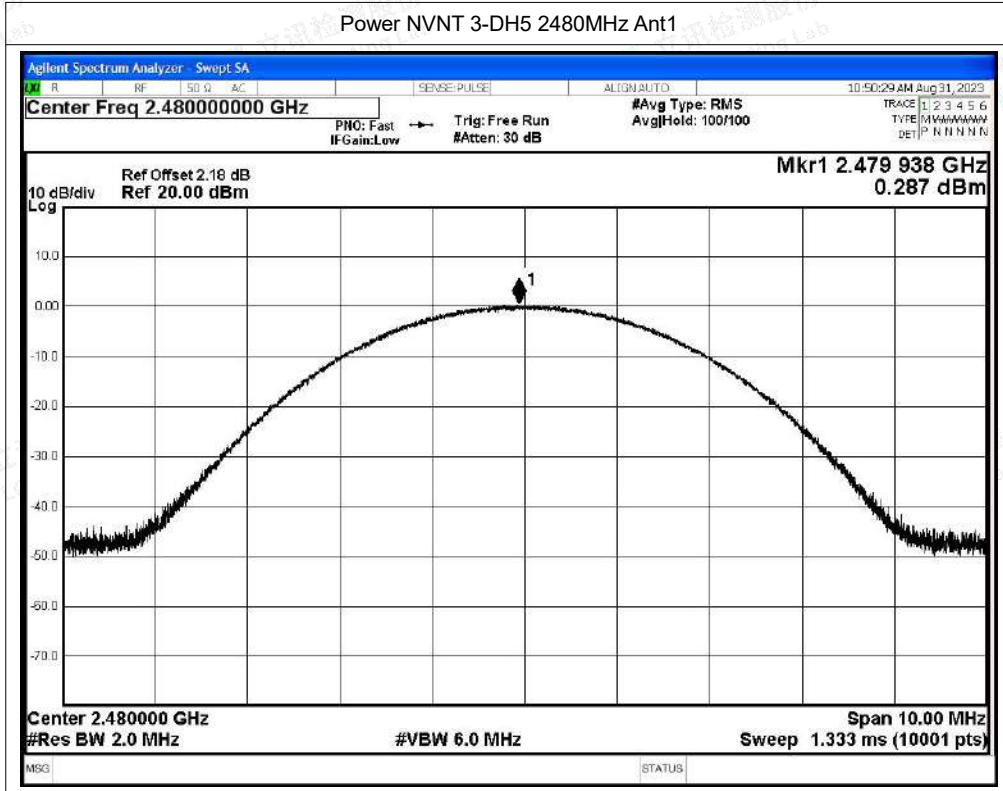


Power NVNT 3-DH5 2402MHz Ant1



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	2402.014	2403.158	1.144	0.678	Pass
NVNT	2-DH5	Ant1	2402.006	2403.152	1.146	0.857	Pass
NVNT	3-DH5	Ant1	2402.162	2403.144	0.982	0.867	Pass



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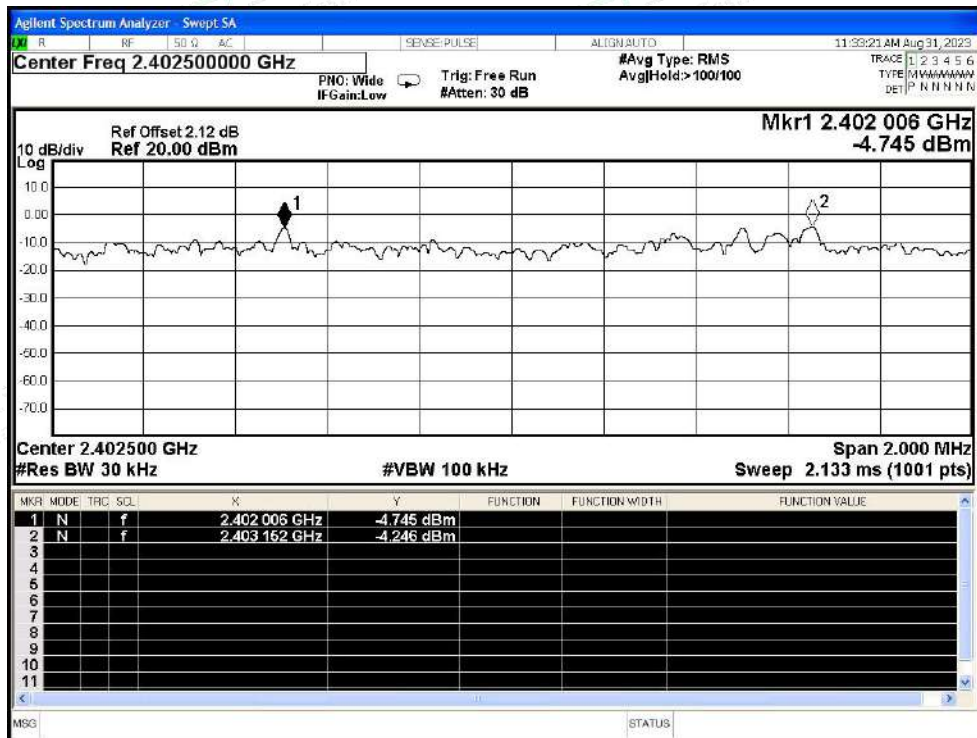


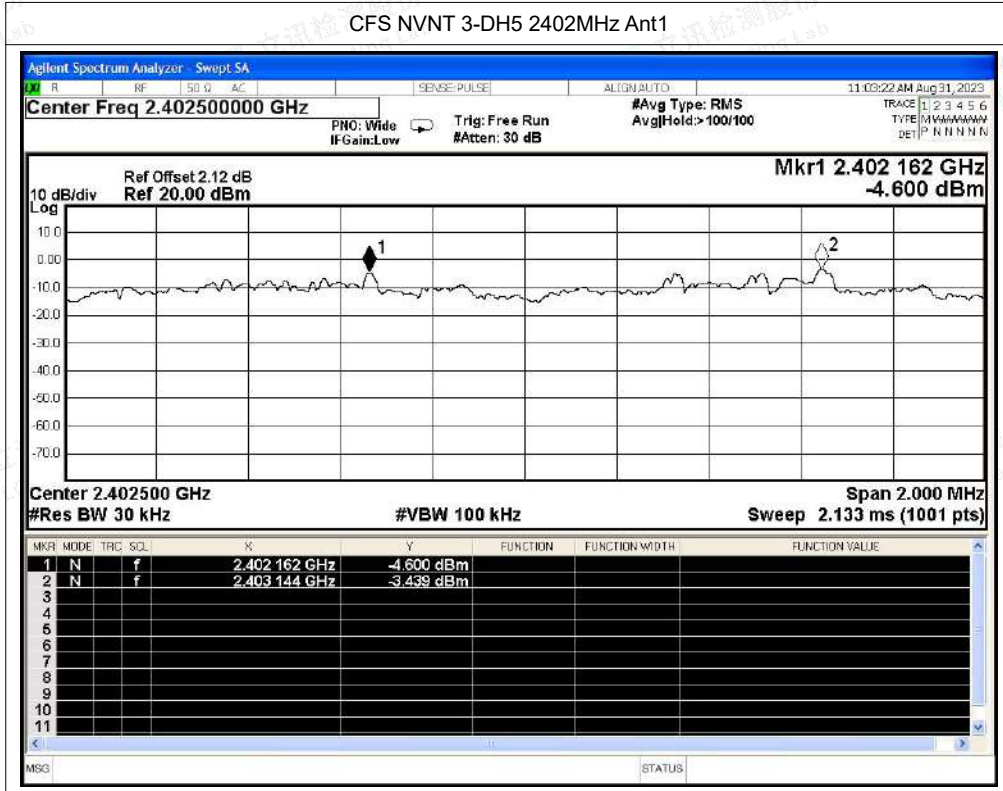
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	273.79	95	31600	400	Pass
NVNT	2-DH5	2402	Ant1	1.924	200.096	104	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	329.004	114	31600	400	Pass

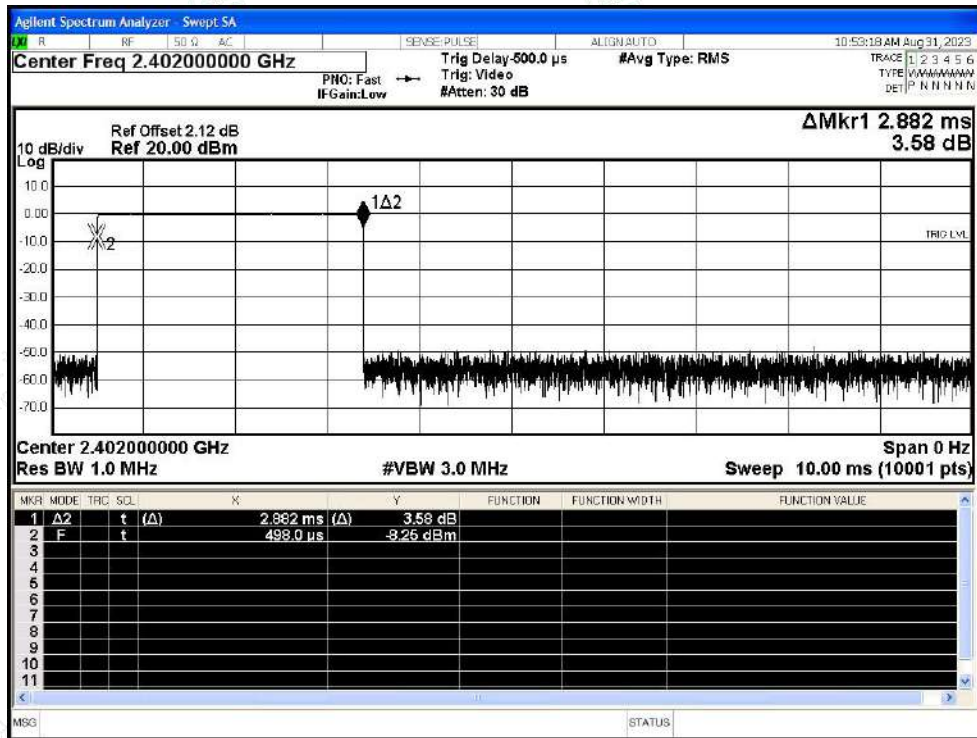


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Scan code to check authenticity

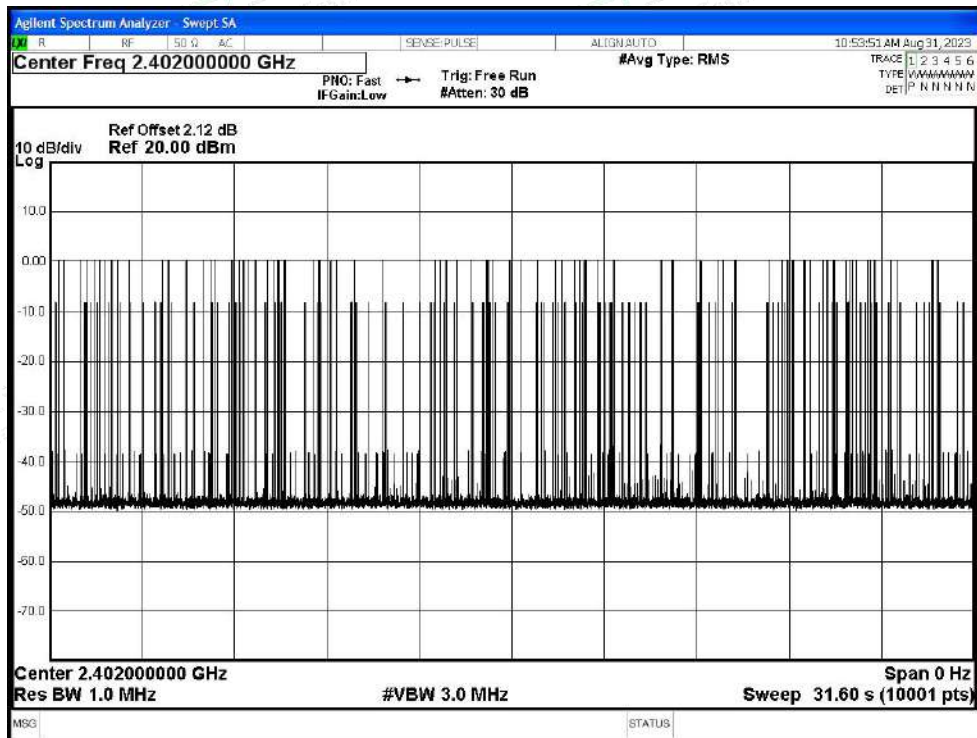


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

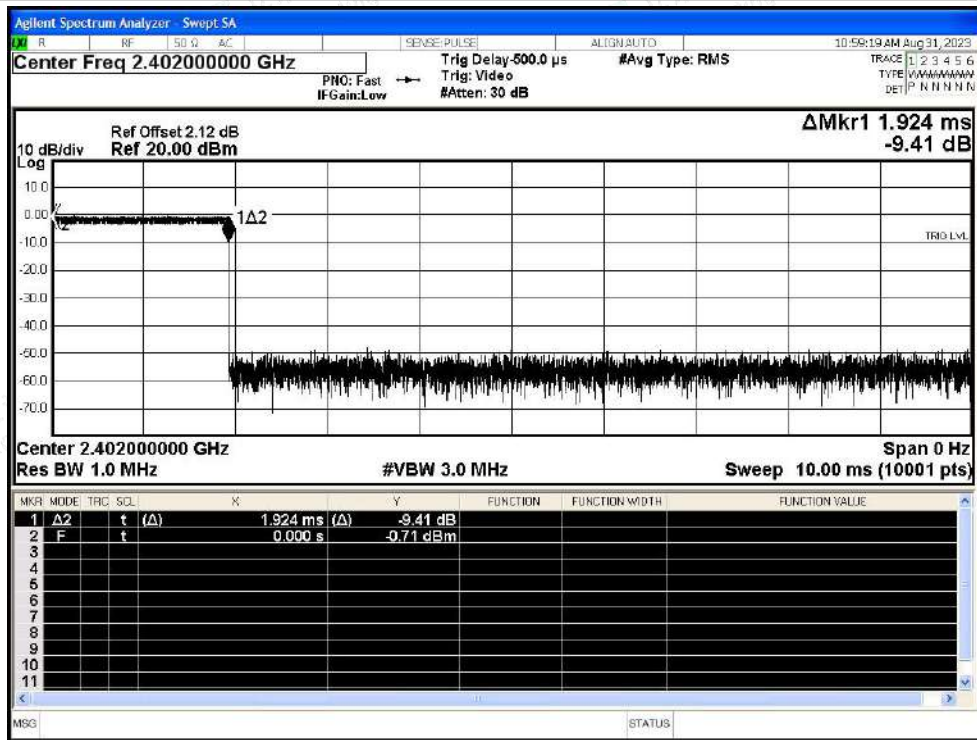


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

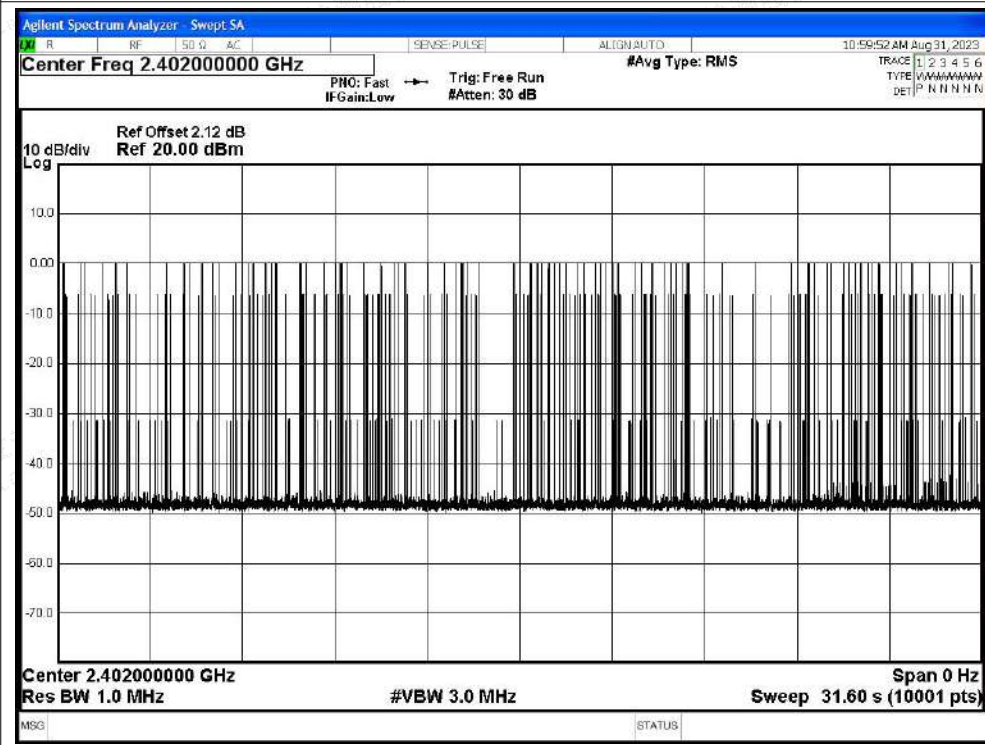




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

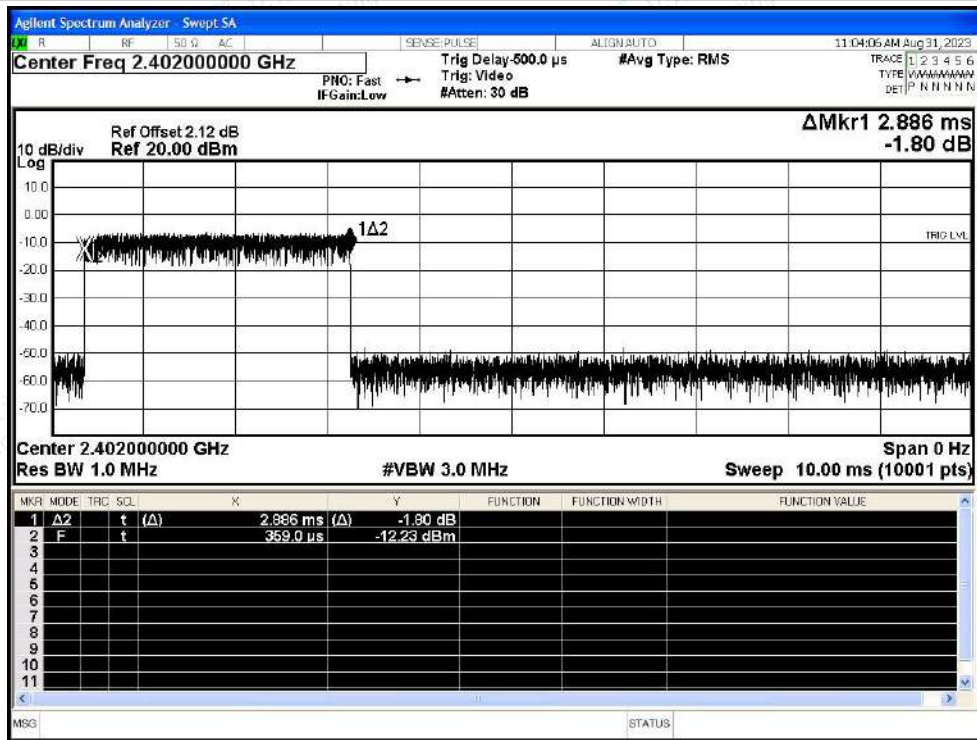


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

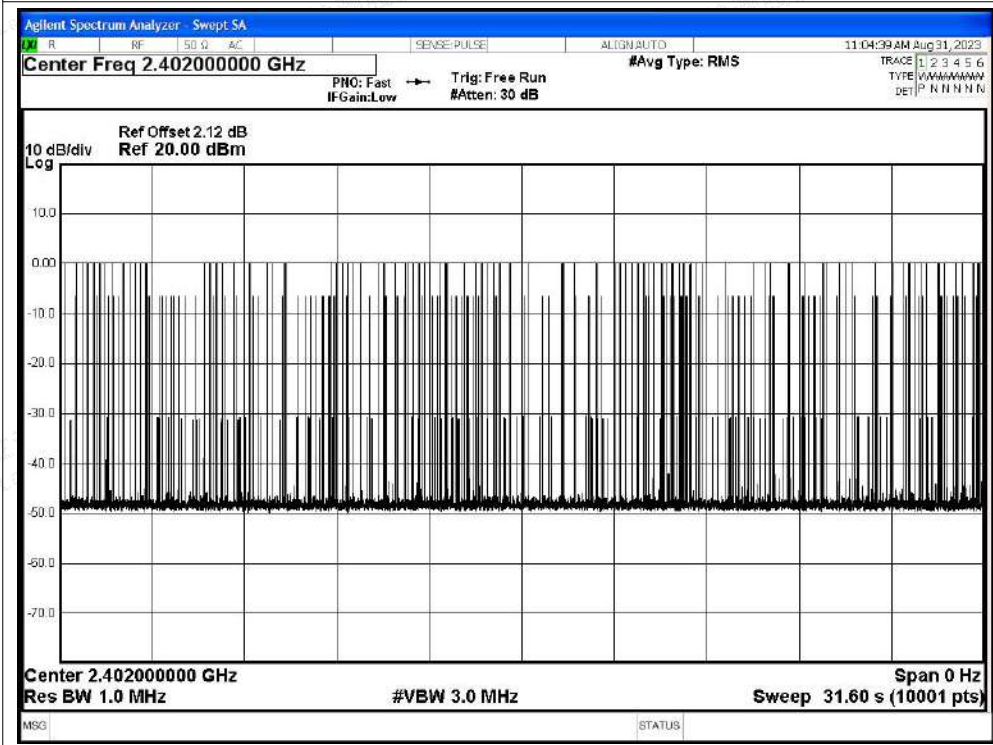




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

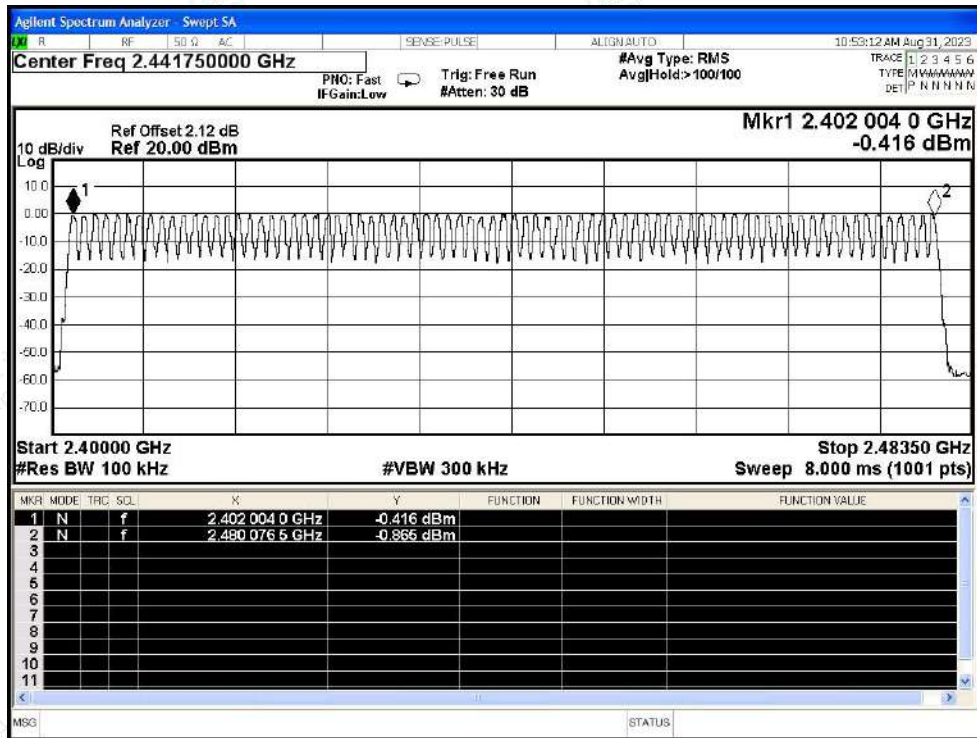
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



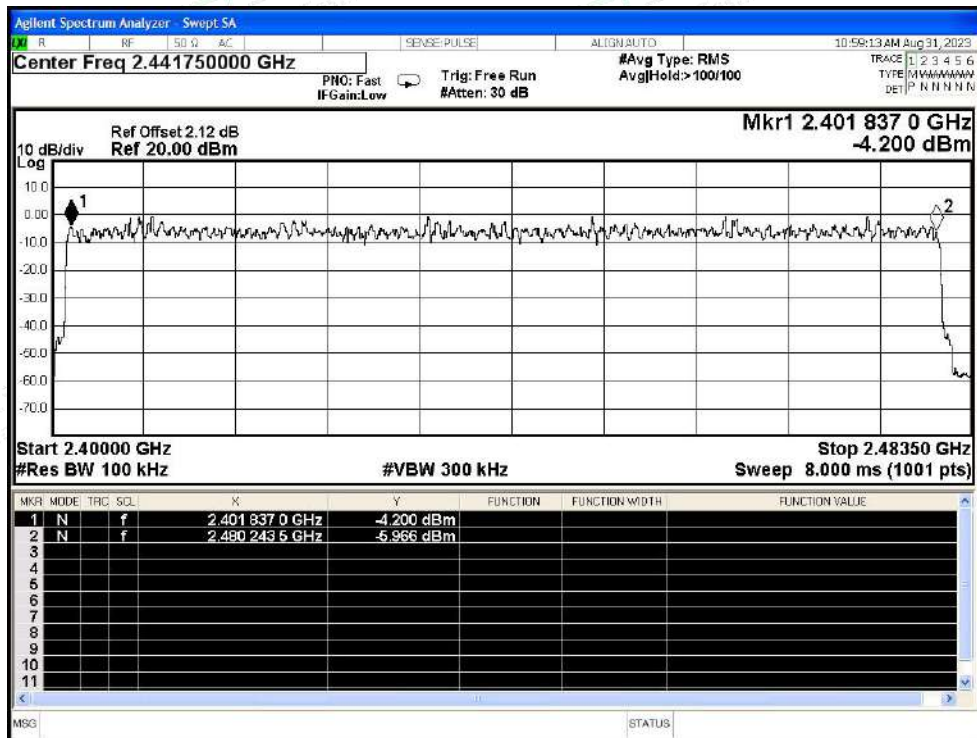


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

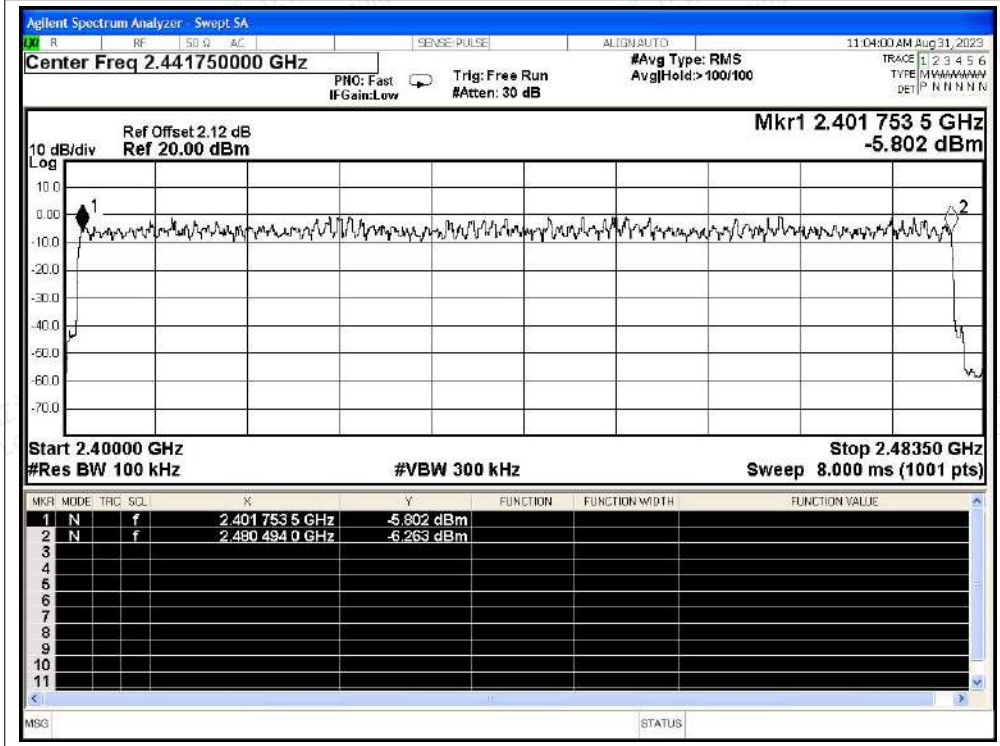


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

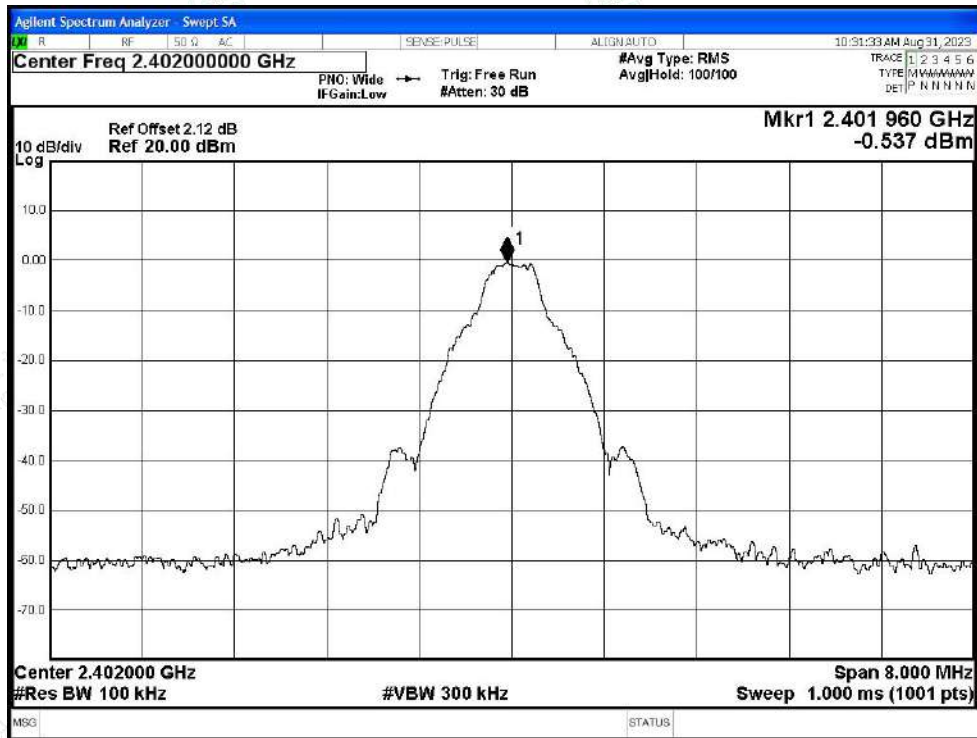
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.09	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.86	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.45	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.25	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.31	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.36	-20	Pass



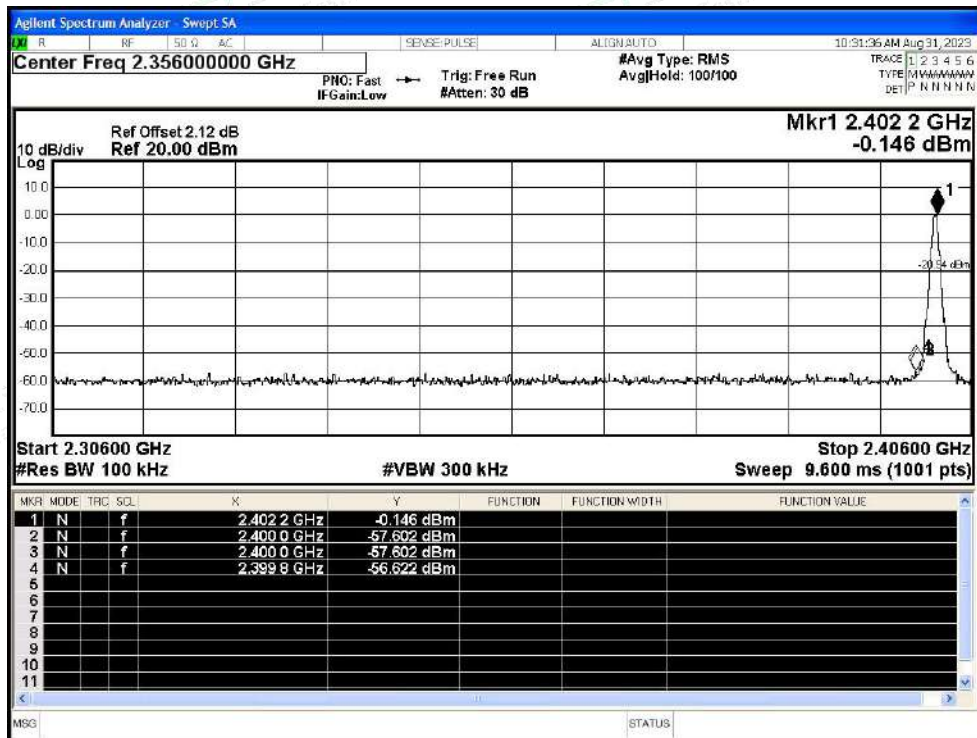


Test Graphs

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

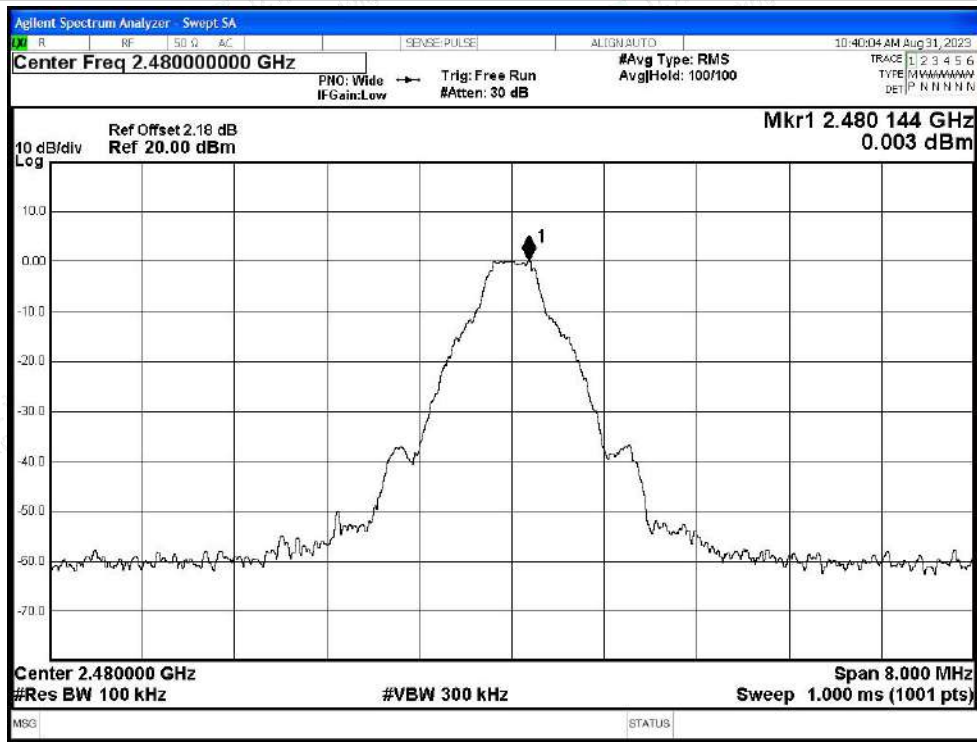


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

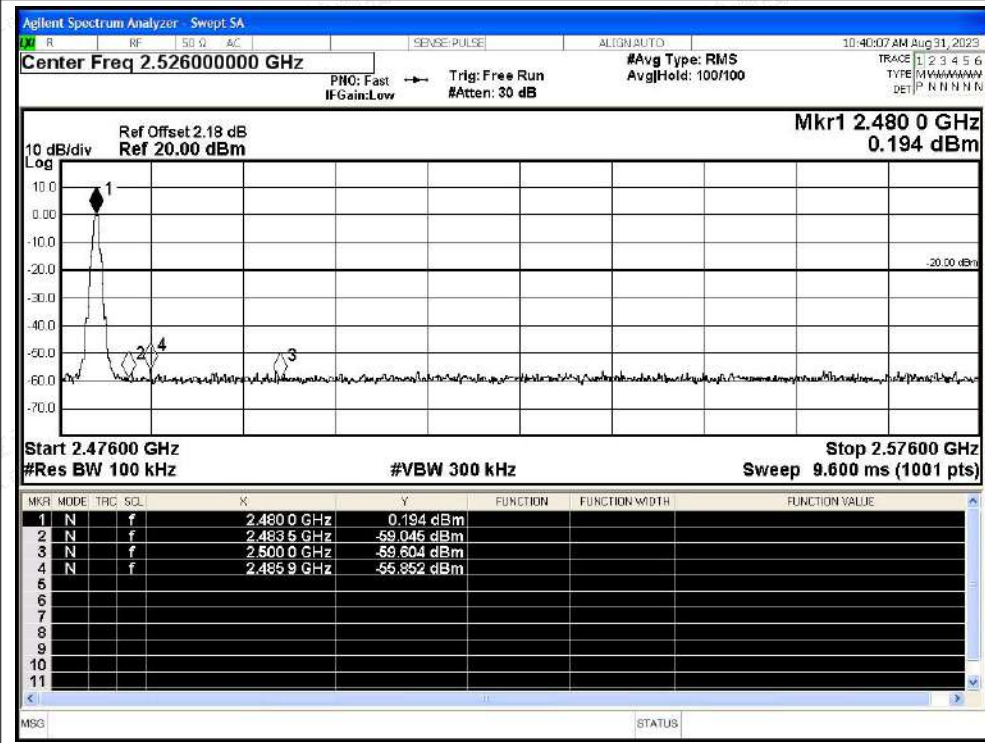




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

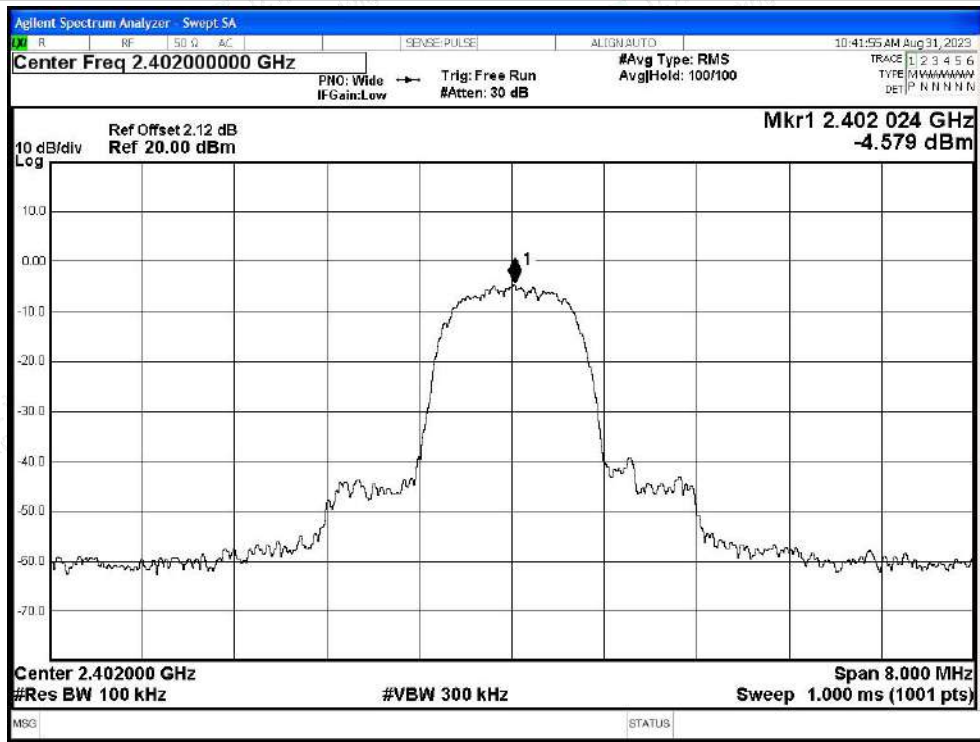


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

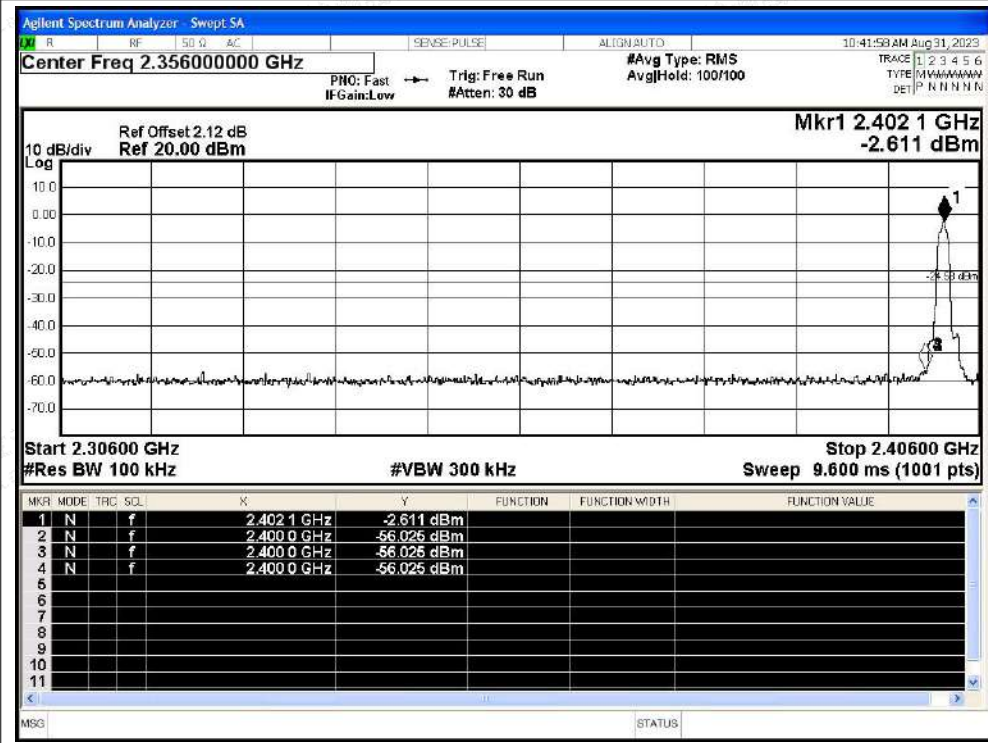




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

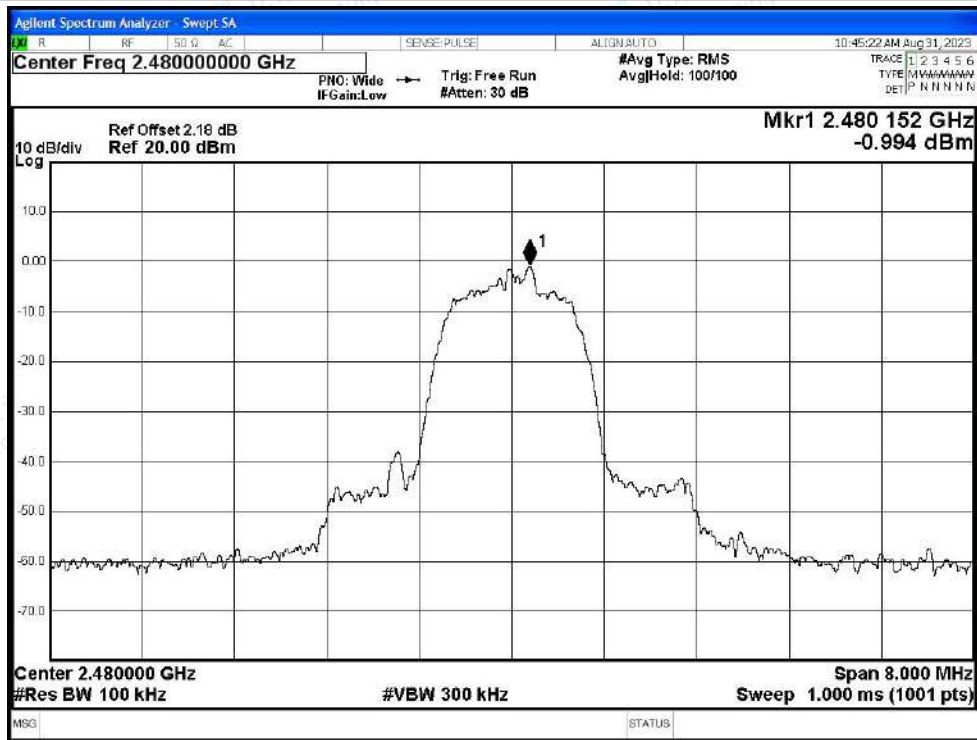


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

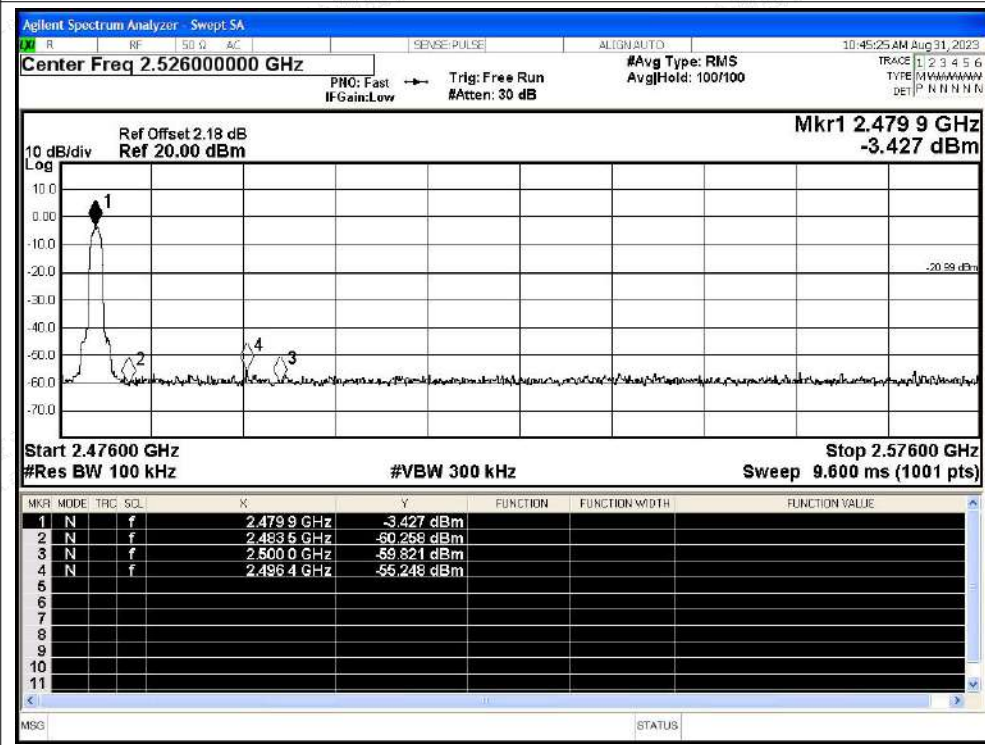




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

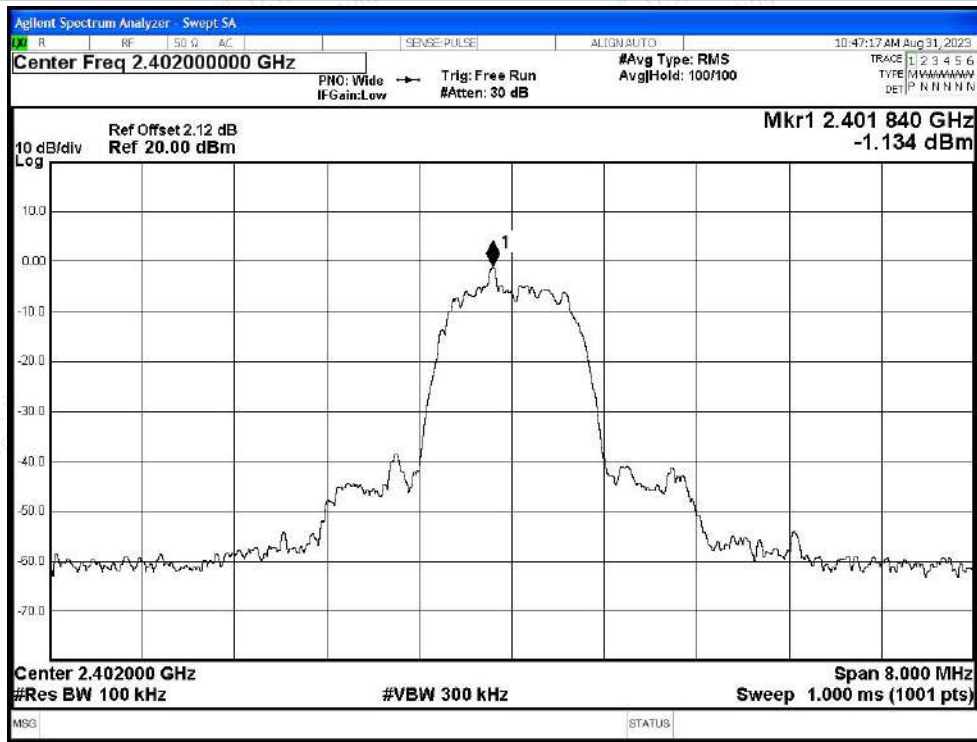


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

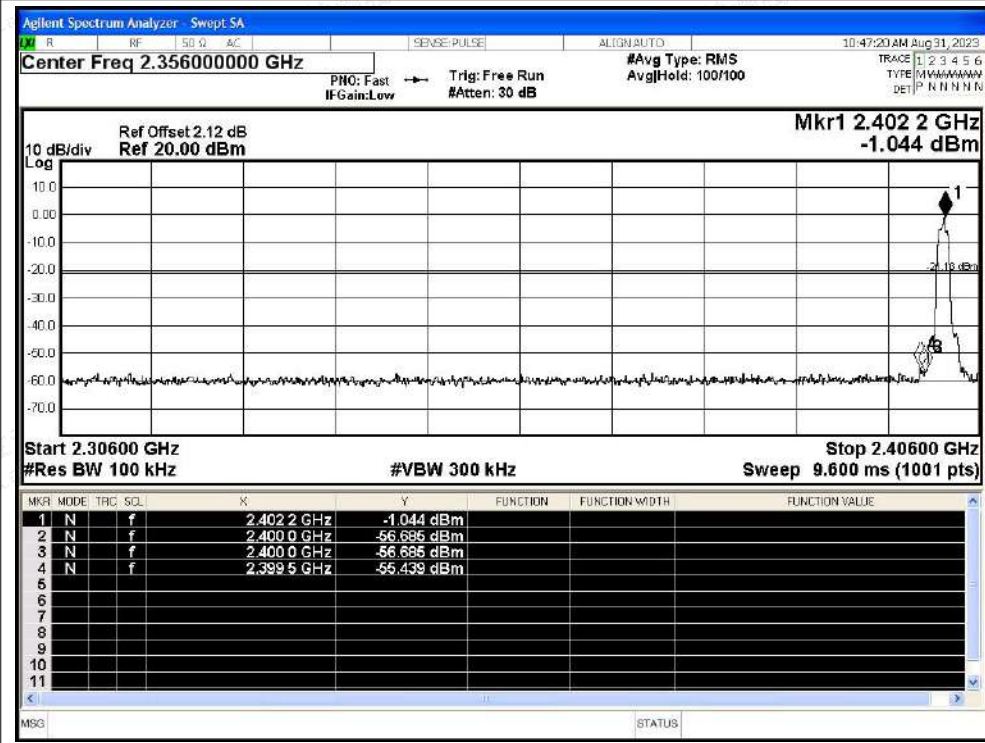




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

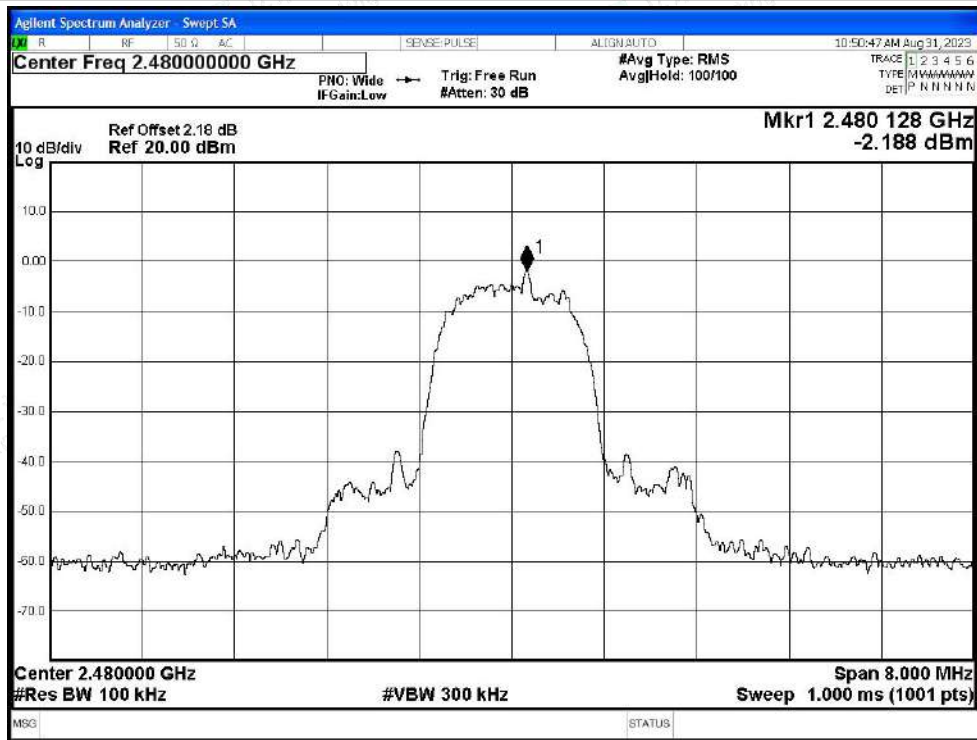


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

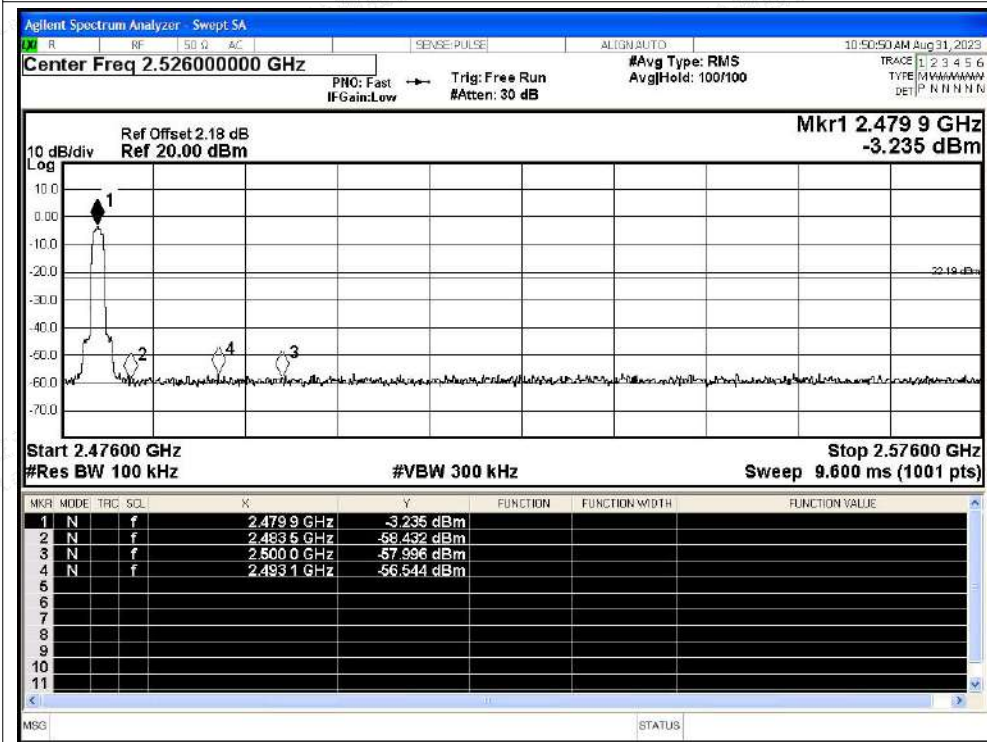




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

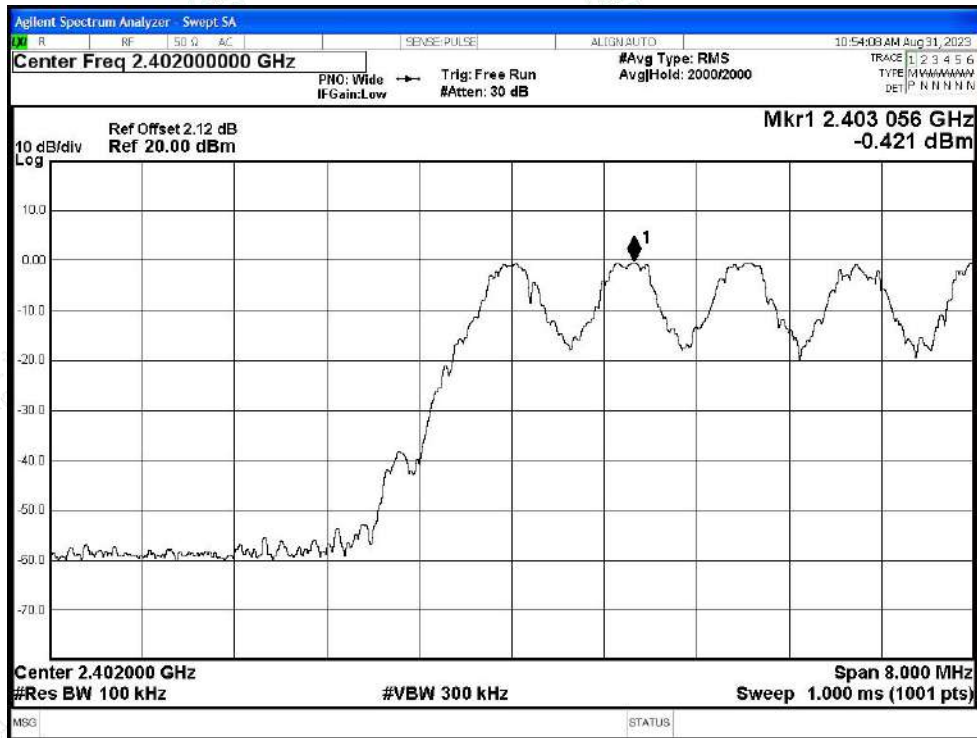
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.68	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.2	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.28	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.53	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.54	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.87	-20	Pass



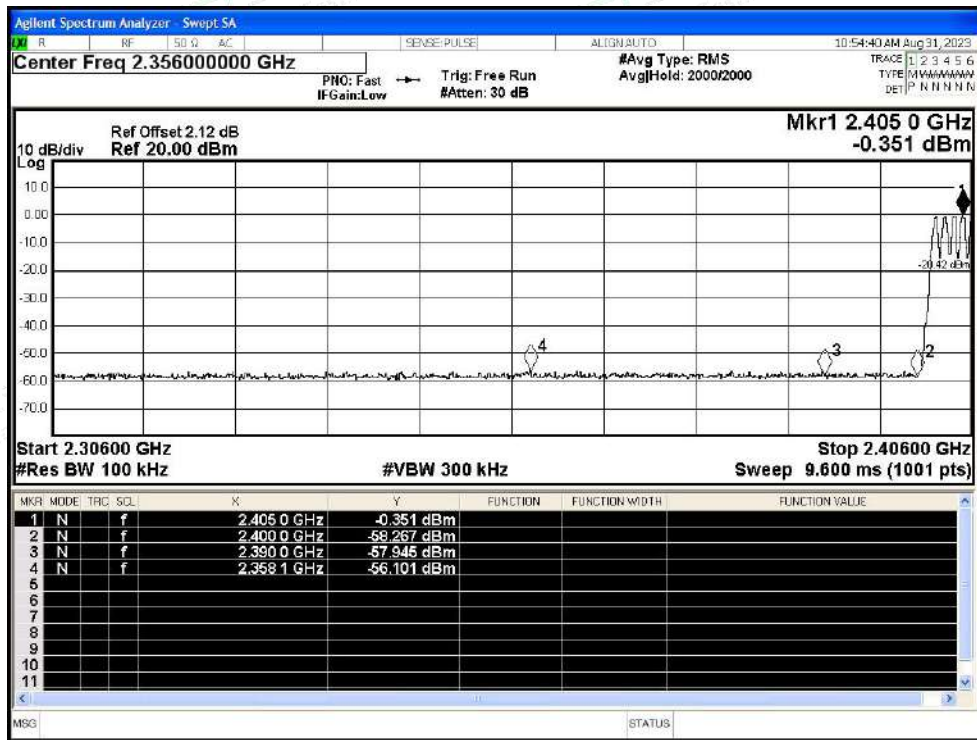


Test Graphs

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

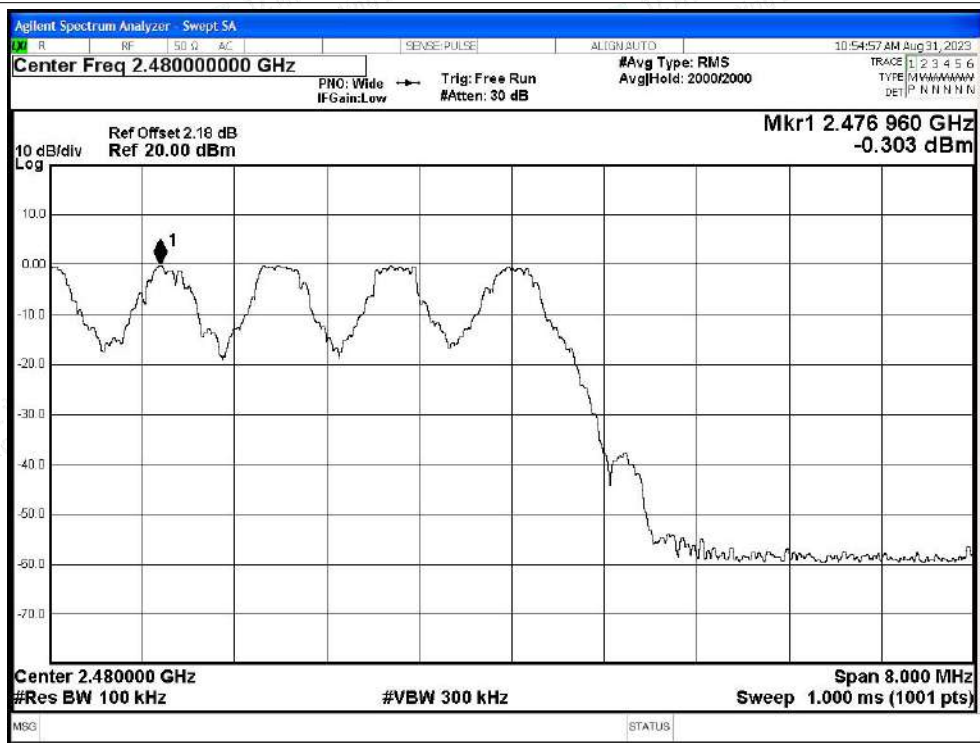


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

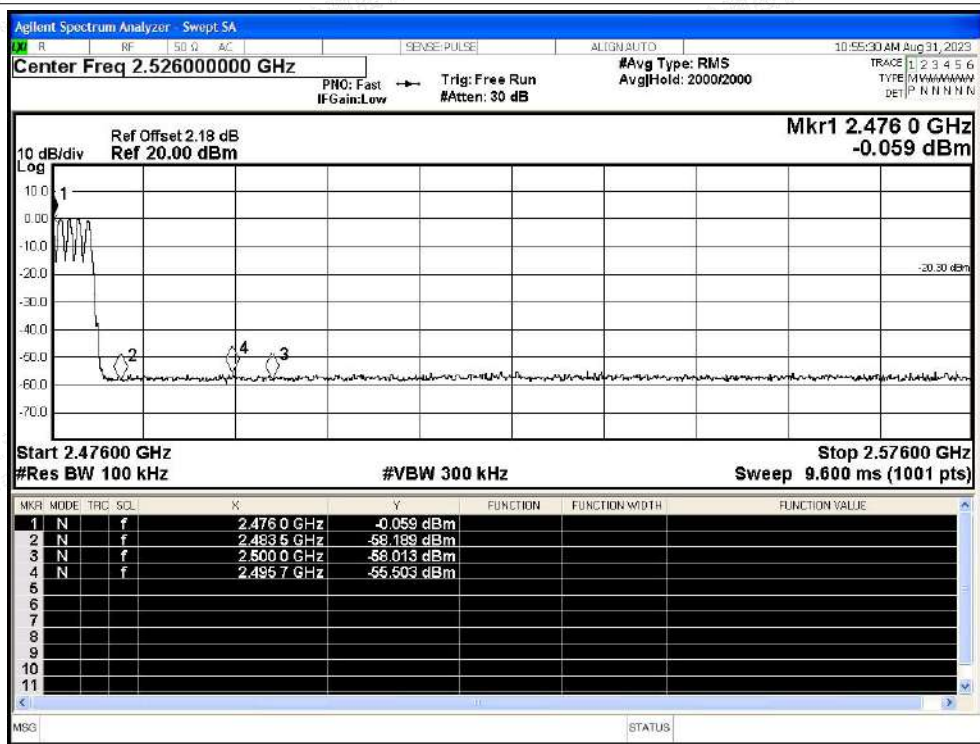




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

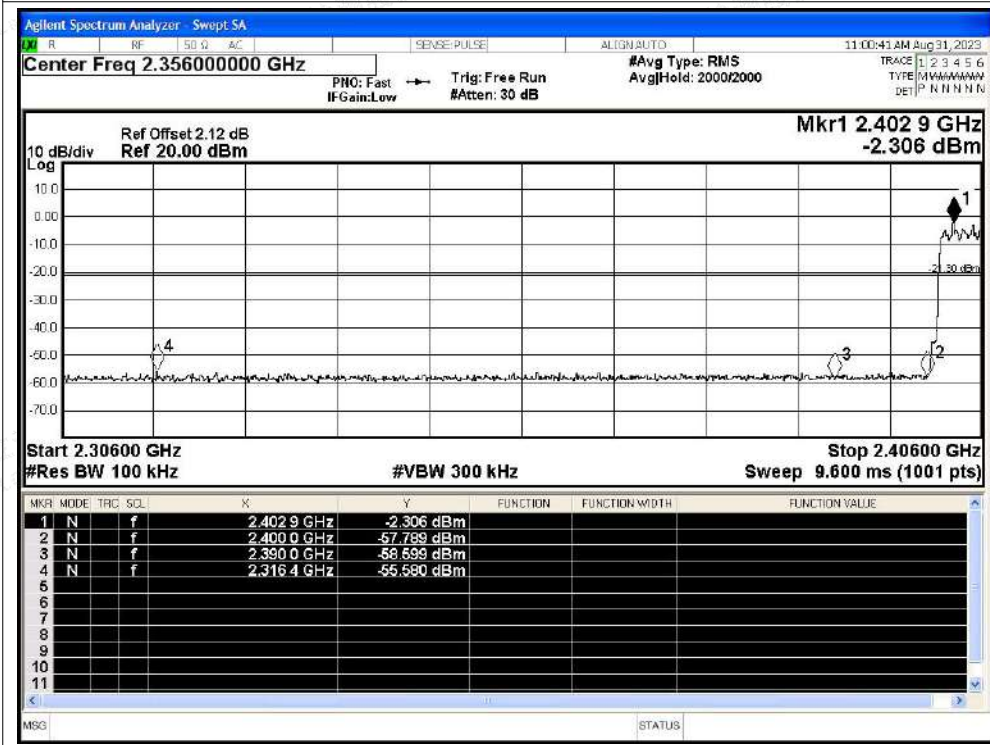




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

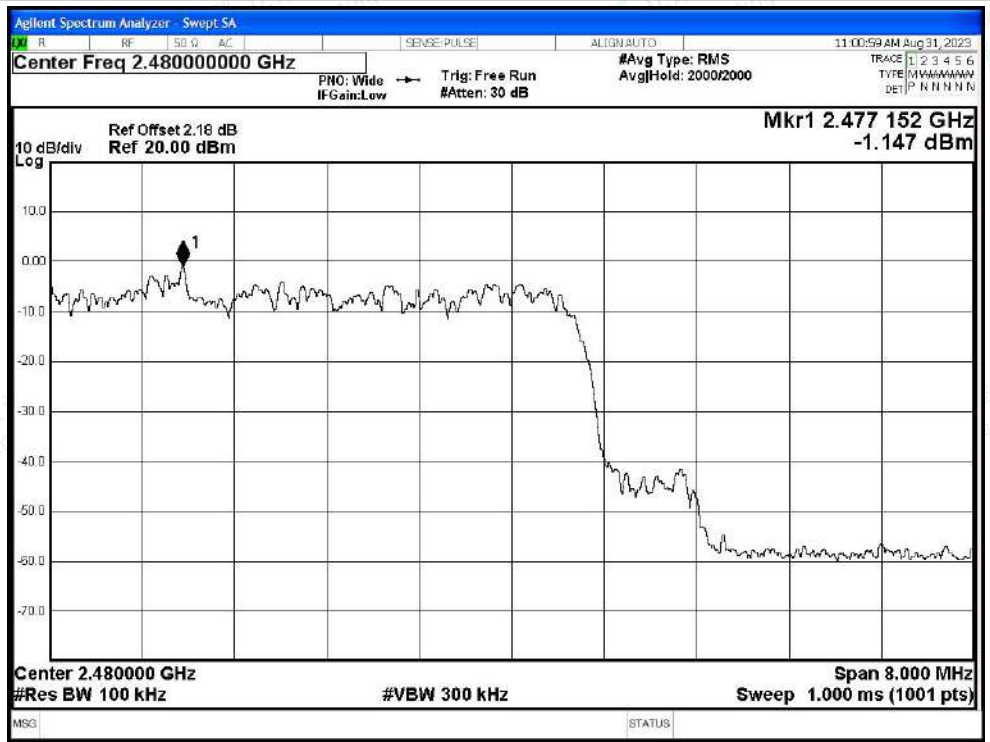


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

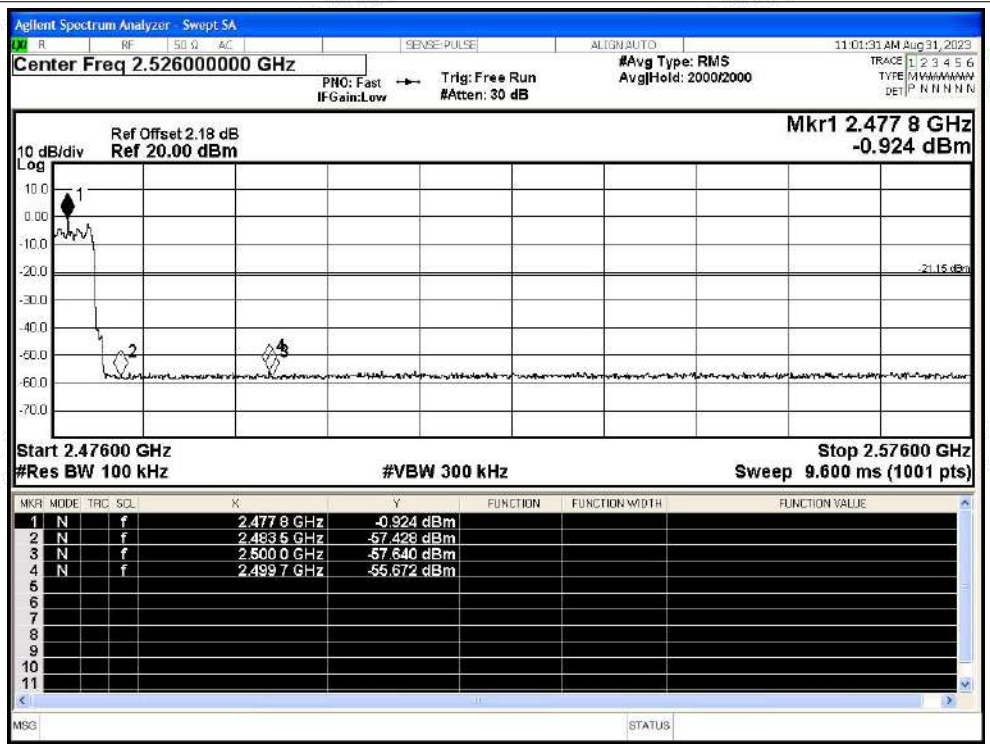




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

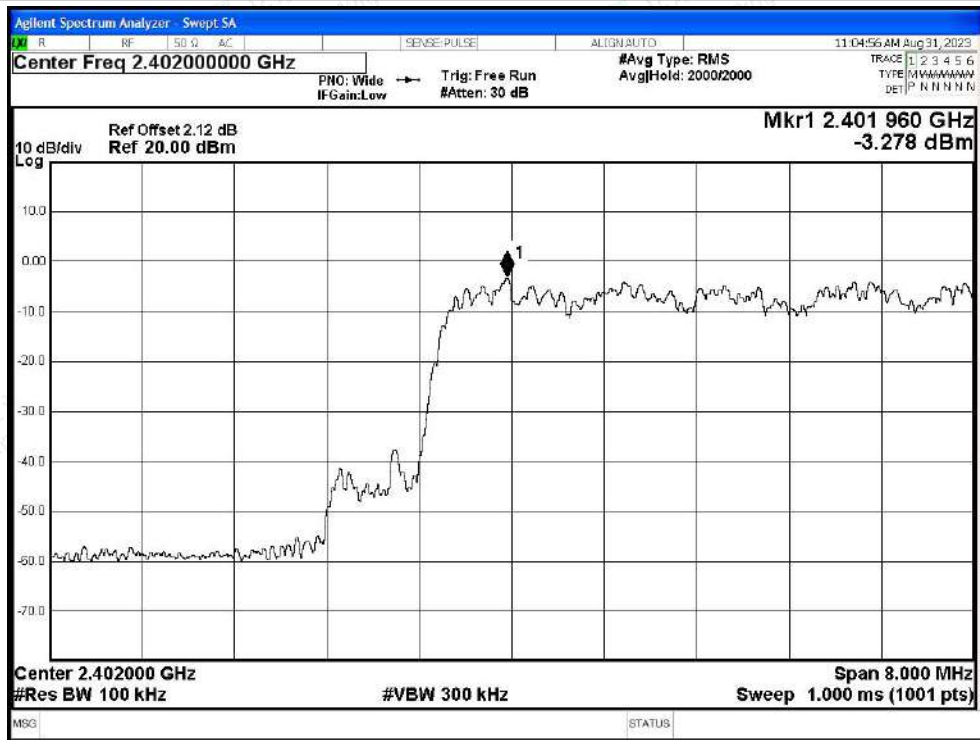


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

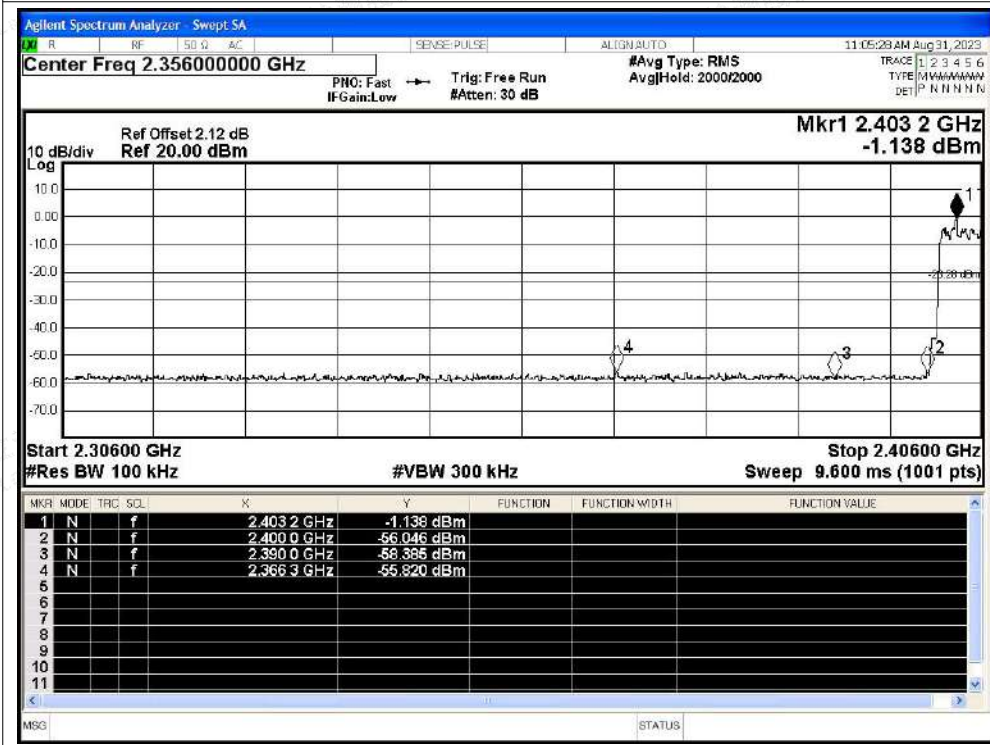




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



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

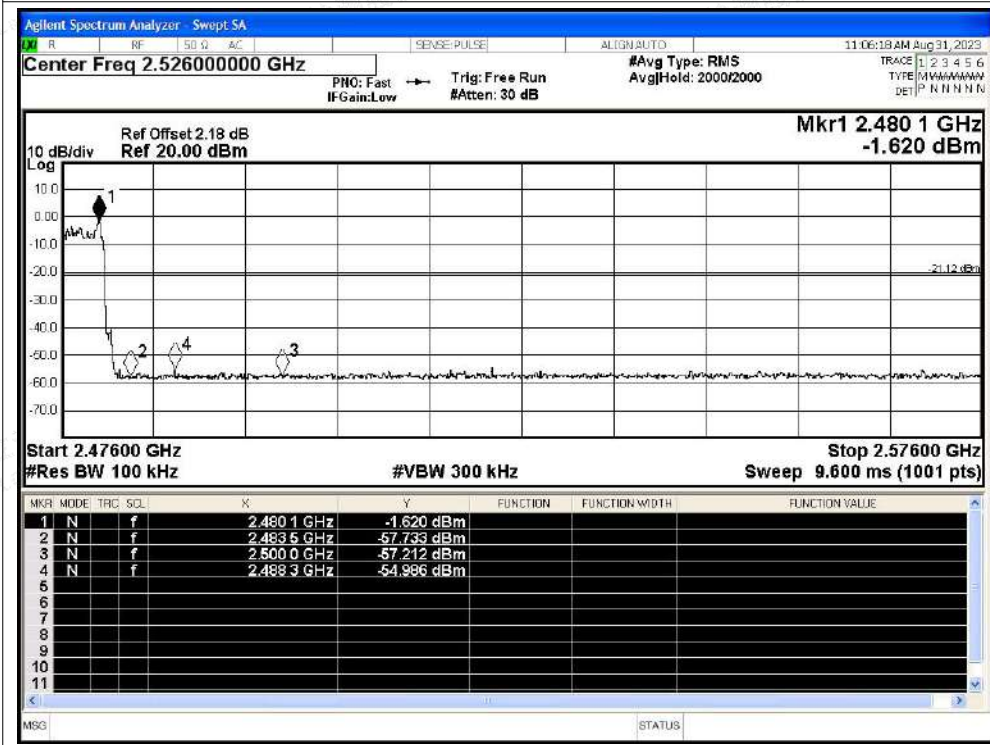




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-55.65	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.35	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.27	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.17	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.44	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.71	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.12	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.78	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.82	-20	Pass

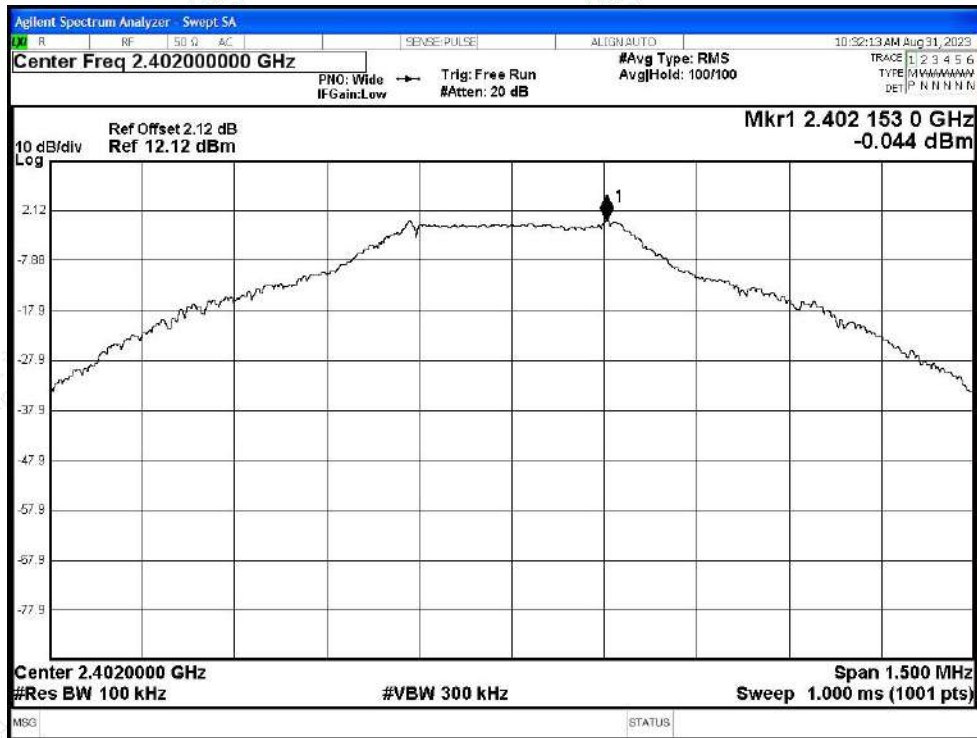


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Scan code to check authenticity

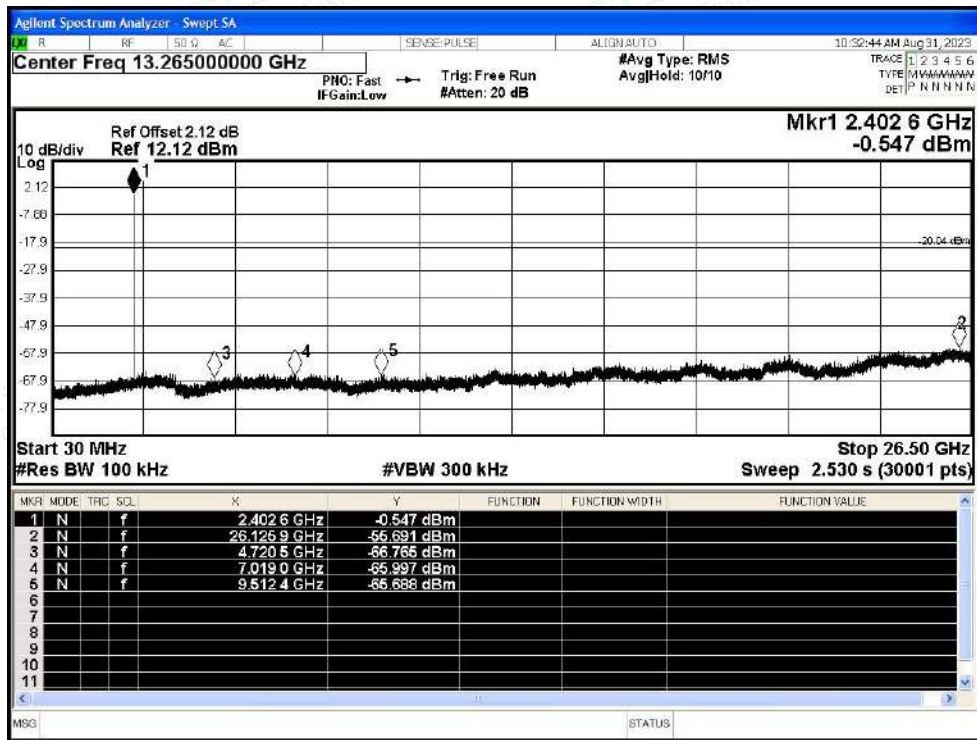


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

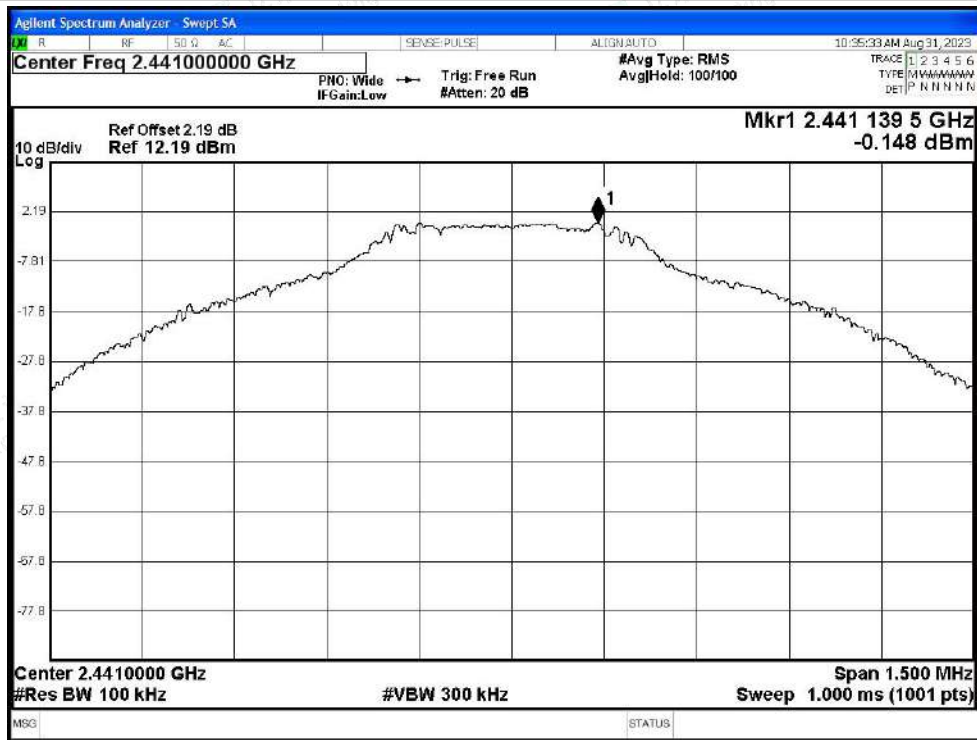


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

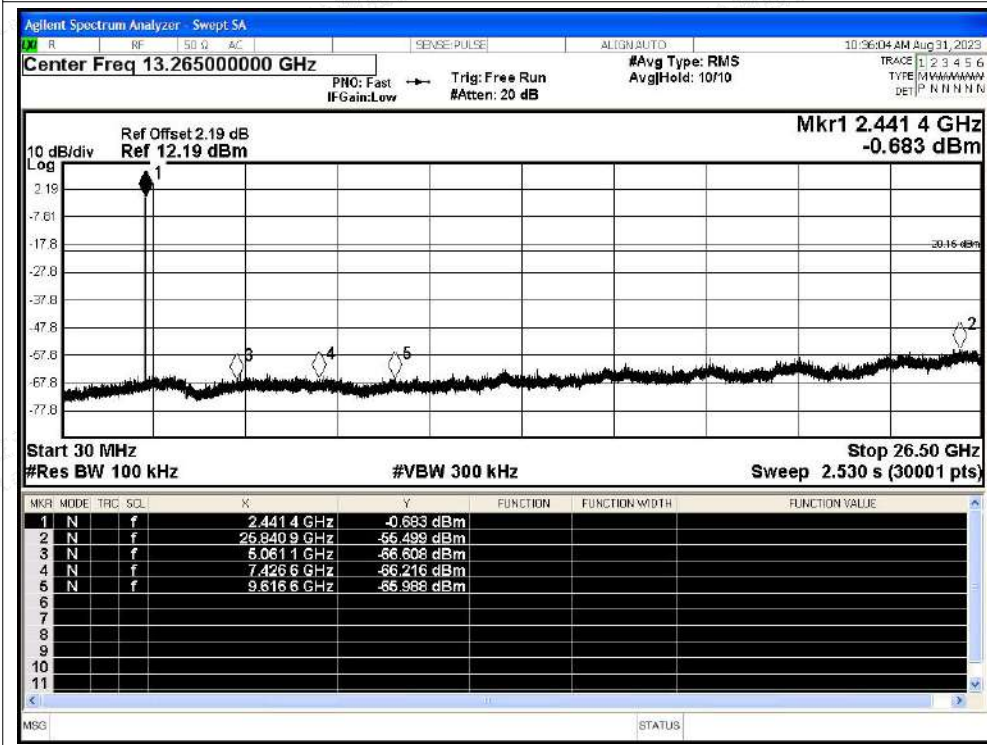




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

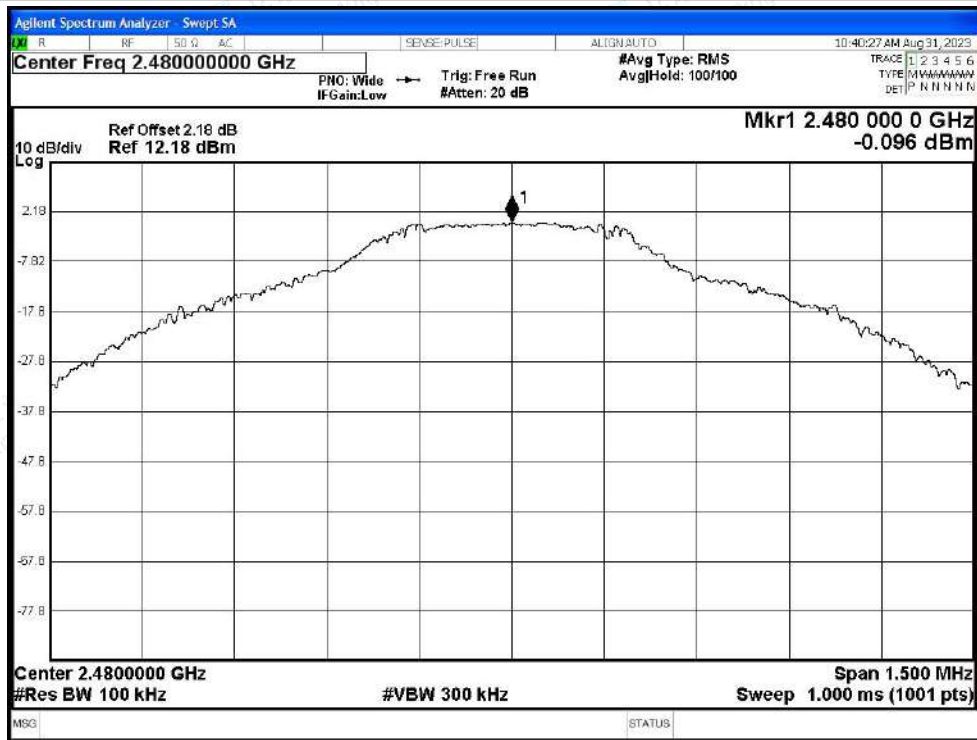


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

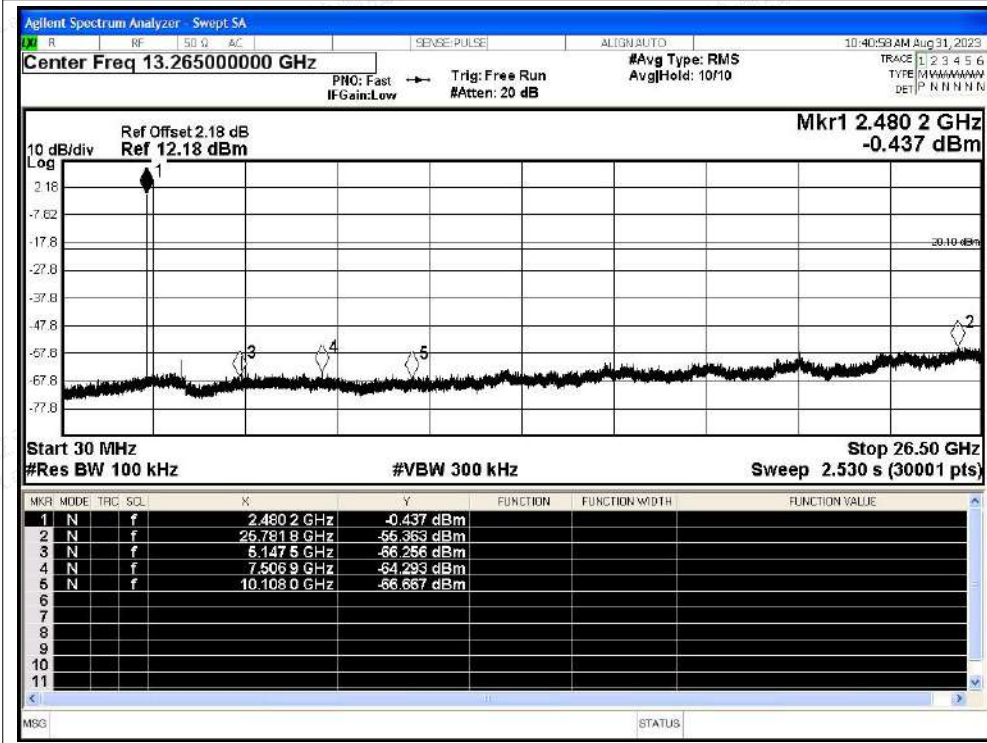




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

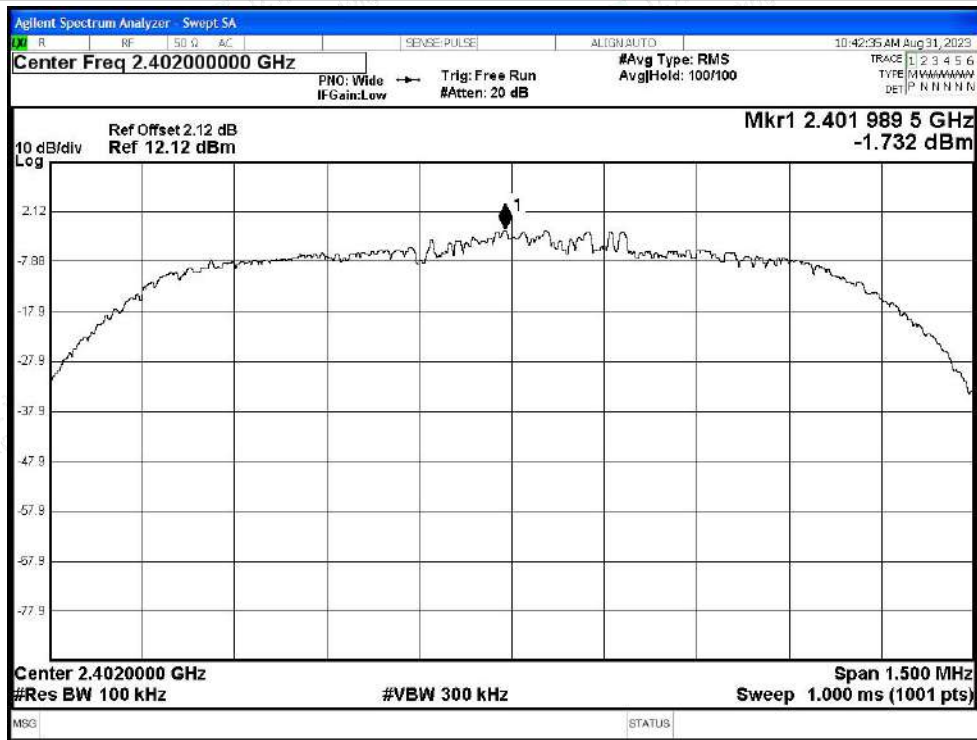


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

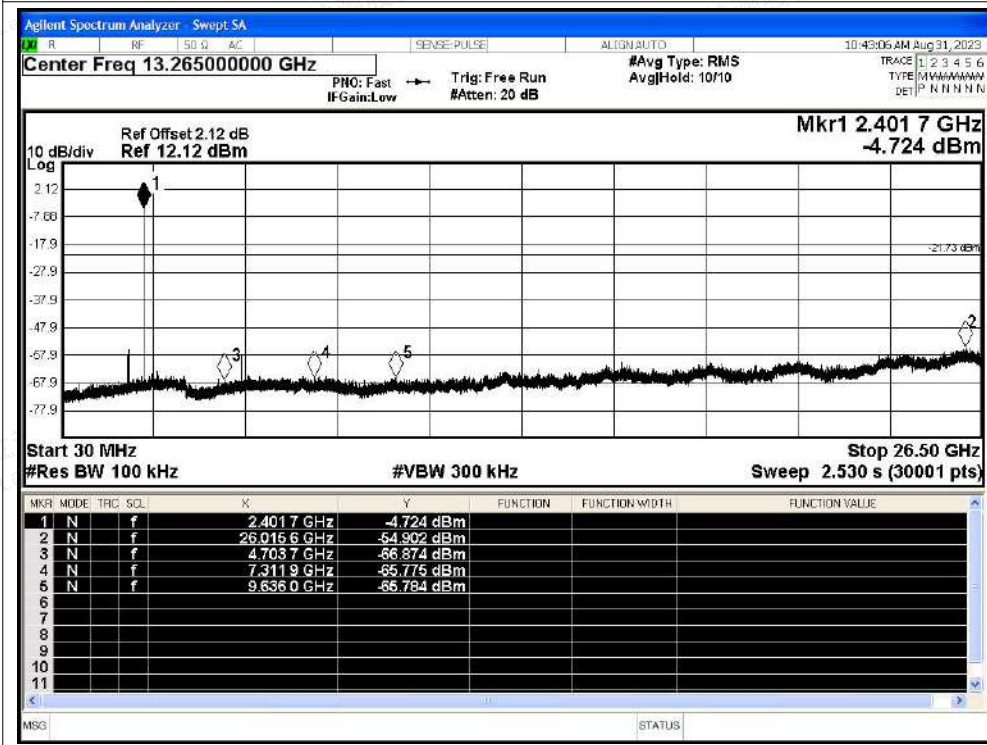




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

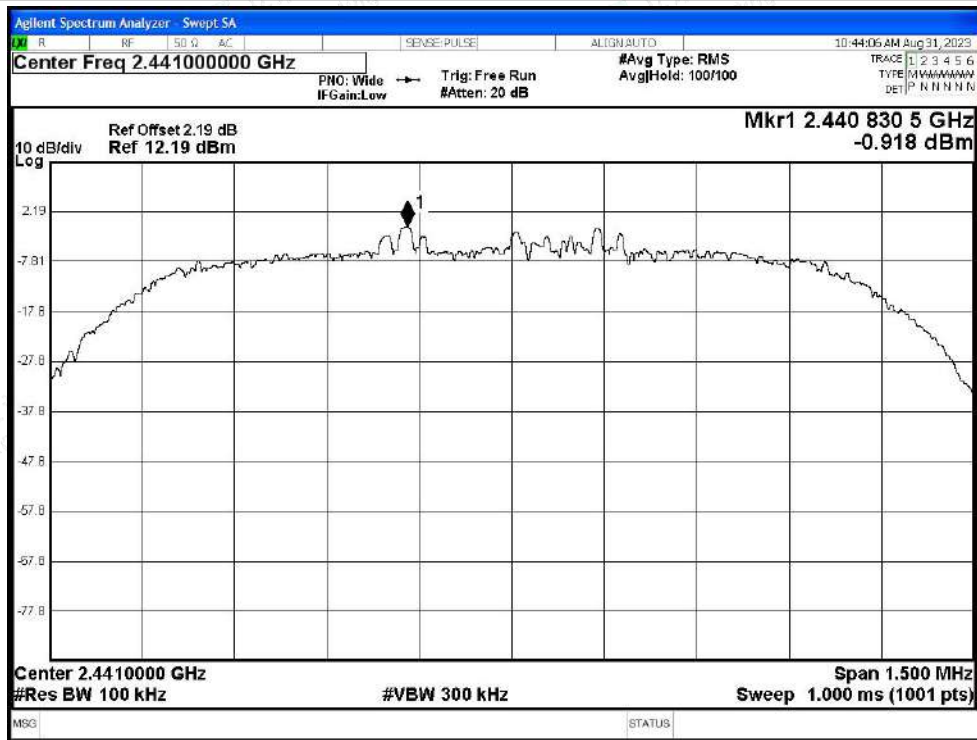


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

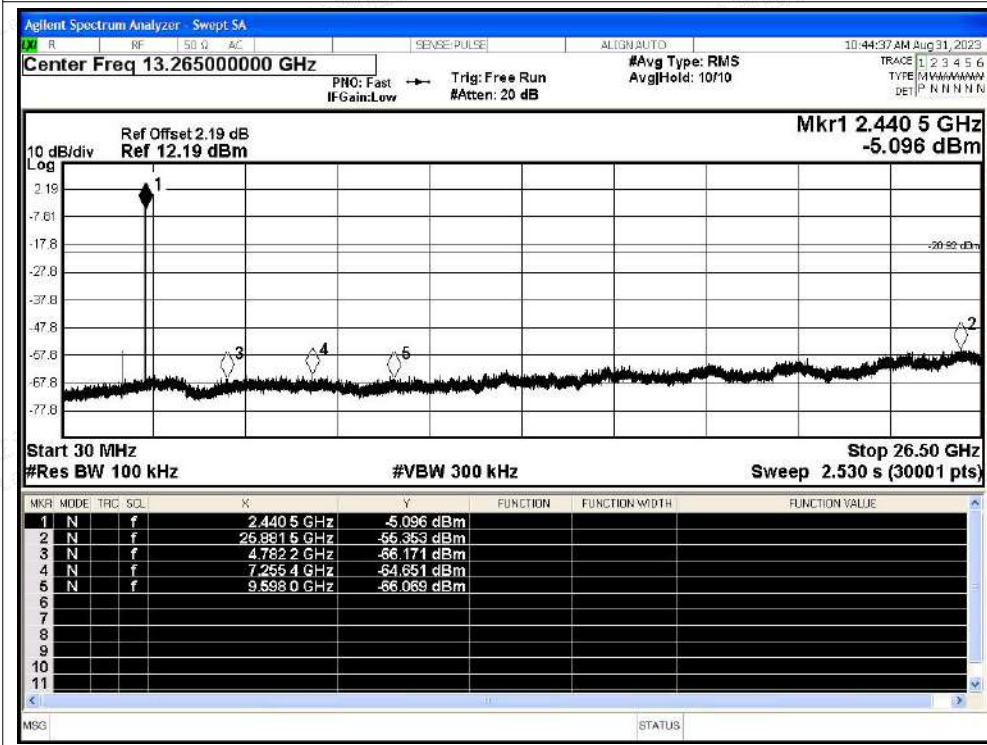




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

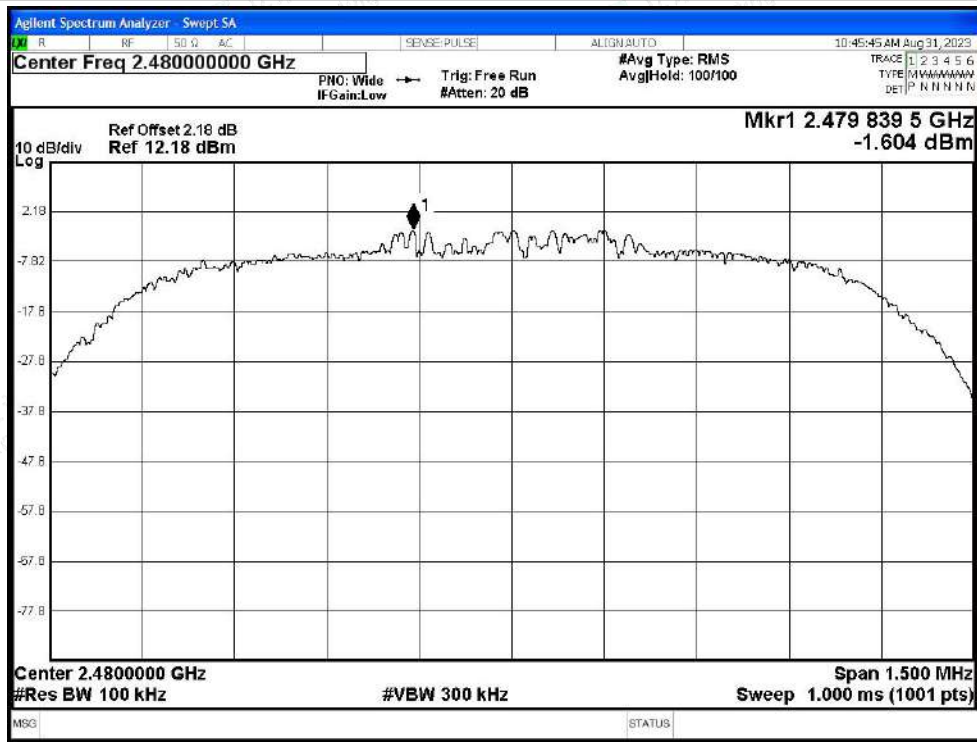


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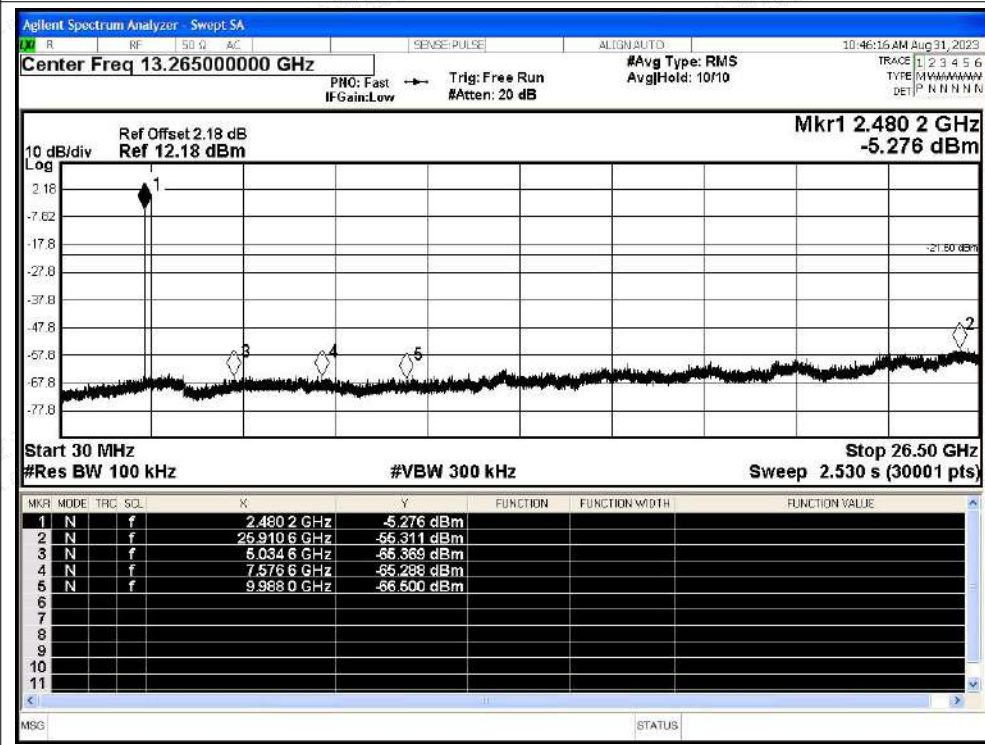




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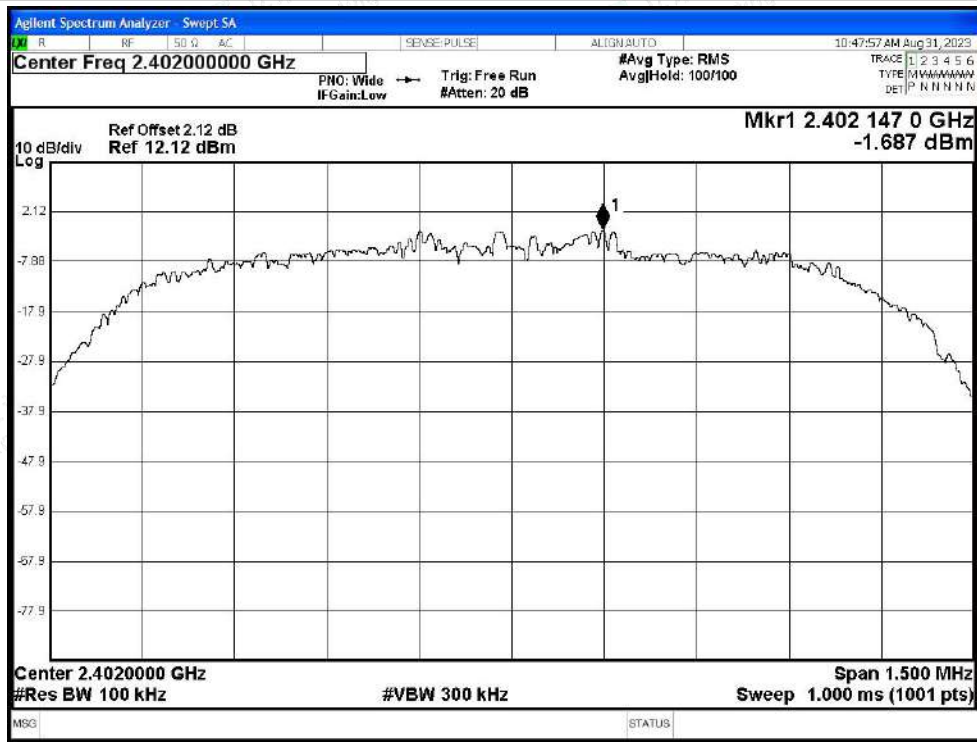


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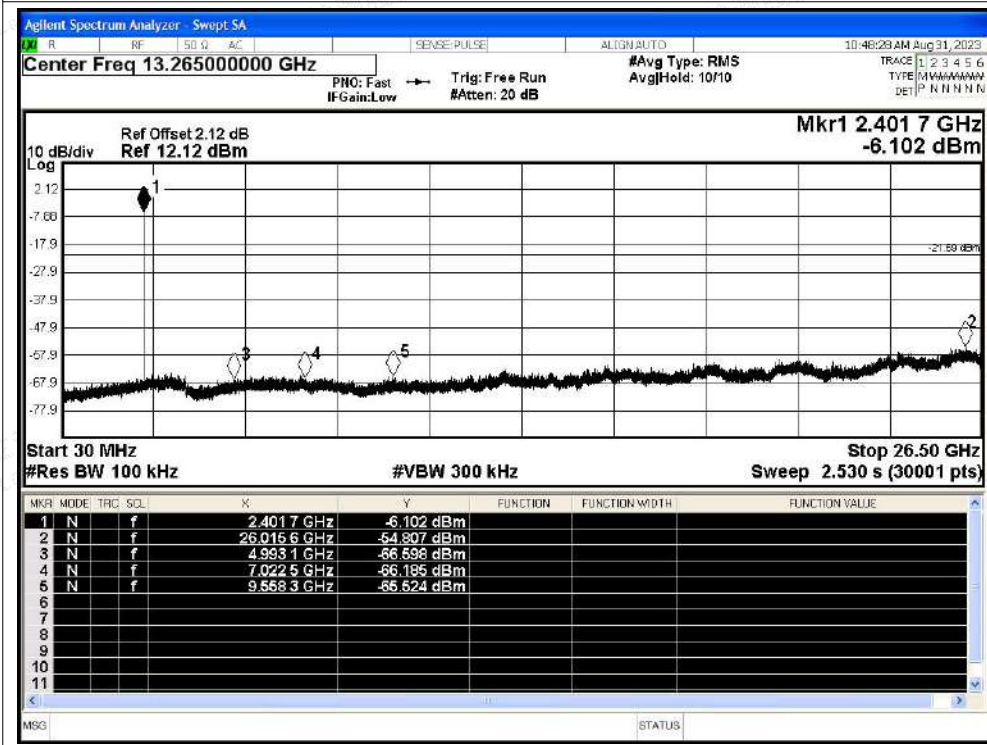




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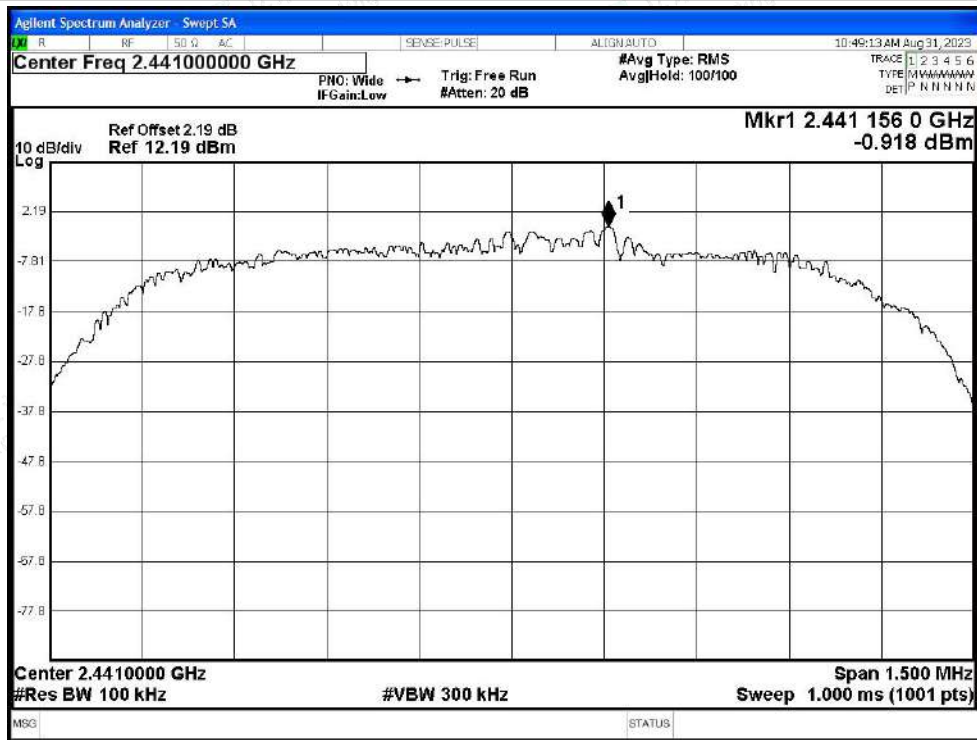


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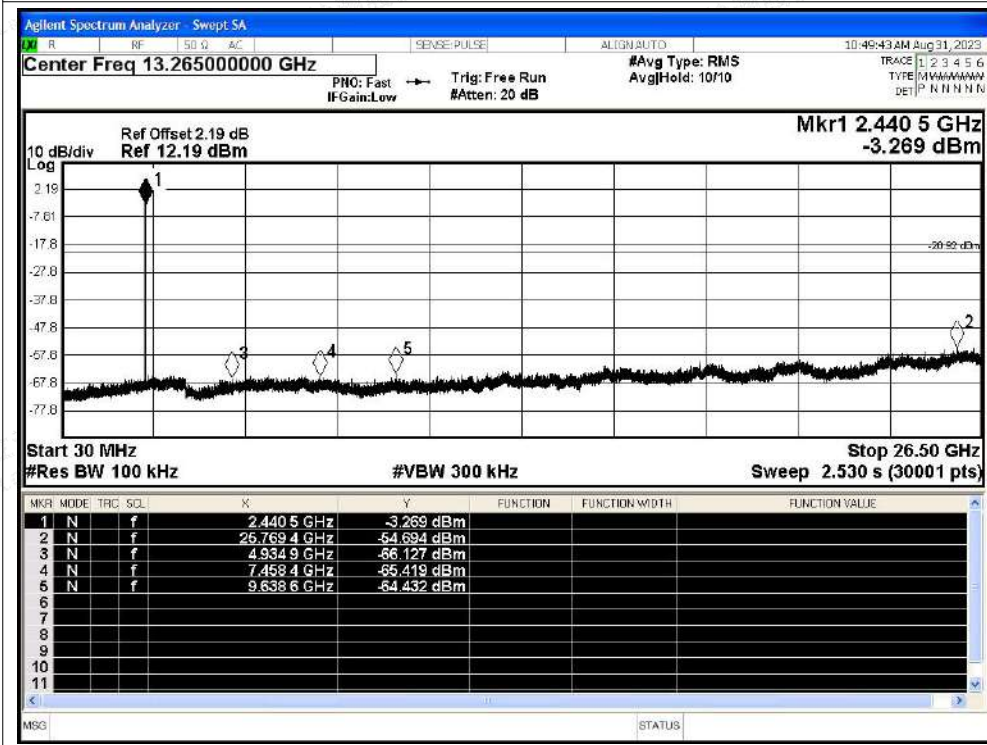




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

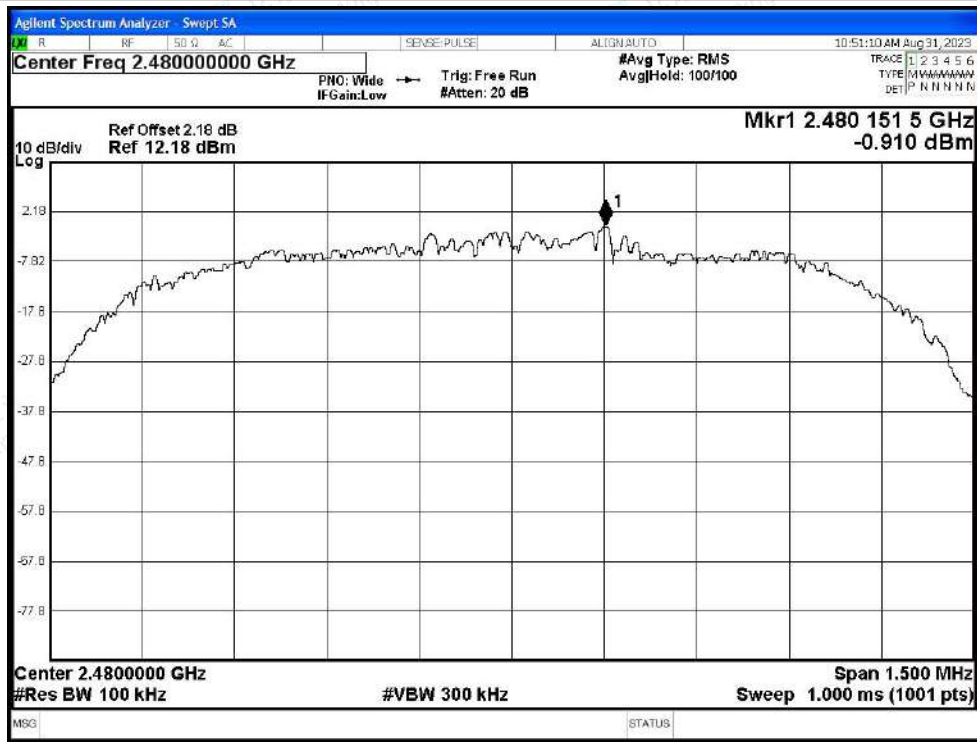


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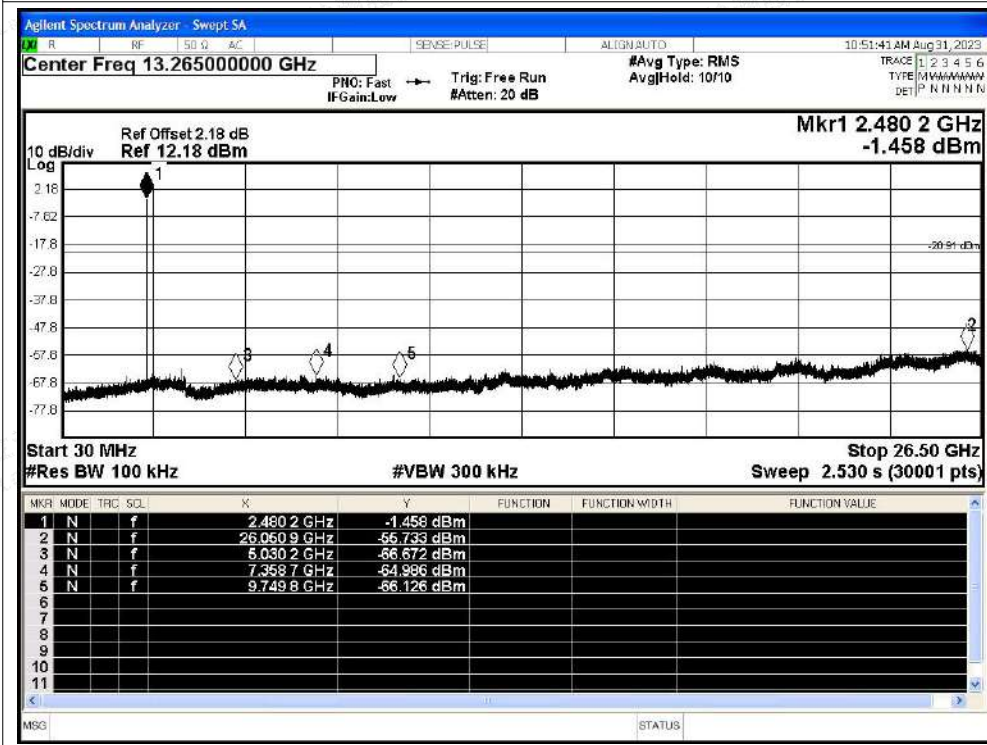




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-49.99	2	47.27	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.75	2	39.51	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2334.096	-47.65	2	49.61	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.584	-57.29	2	39.97	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.56	2	46.7	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.37	2	39.89	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.3	2	47.96	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.76	2	41.5	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2493.64	-46.95	2	50.31	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.76	2	41.5	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.31	2	46.95	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.05	2	40.21	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.67	2	47.59	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.73	2	39.53	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2353.872	-47.07	2	50.19	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.432	-57.28	2	39.98	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.02	2	46.24	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.41	2	39.85	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.77	2	46.49	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.49	2	41.77	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.464	-47.23	2	50.03	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.49	2	41.77	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.09	2	47.17	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.04	2	40.22	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.37	2	47.89	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.75	2	39.51	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2338.992	-45.96	2	51.3	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2385.936	-57.27	2	39.99	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-47.41	2	49.85	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.32	2	39.94	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.37	2	47.89	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.64	2	41.62	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2488.072	-47.41	2	49.85	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.64	2	41.62	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-51.92	2	45.34	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.04	2	40.22	Average	54	Pass

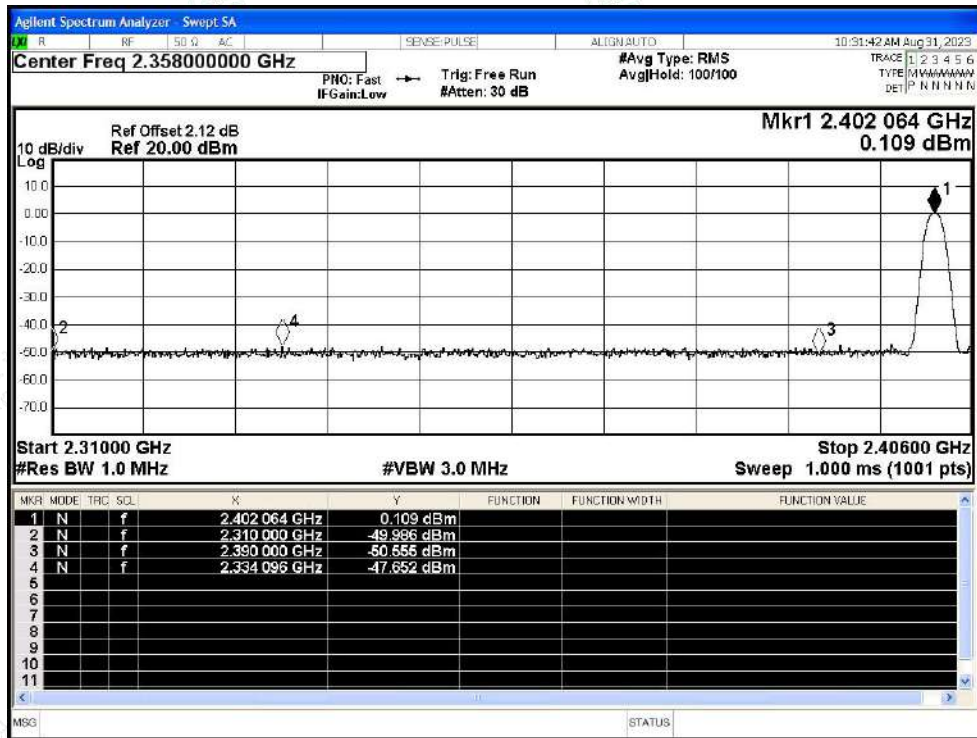


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 Scan code to check authenticity

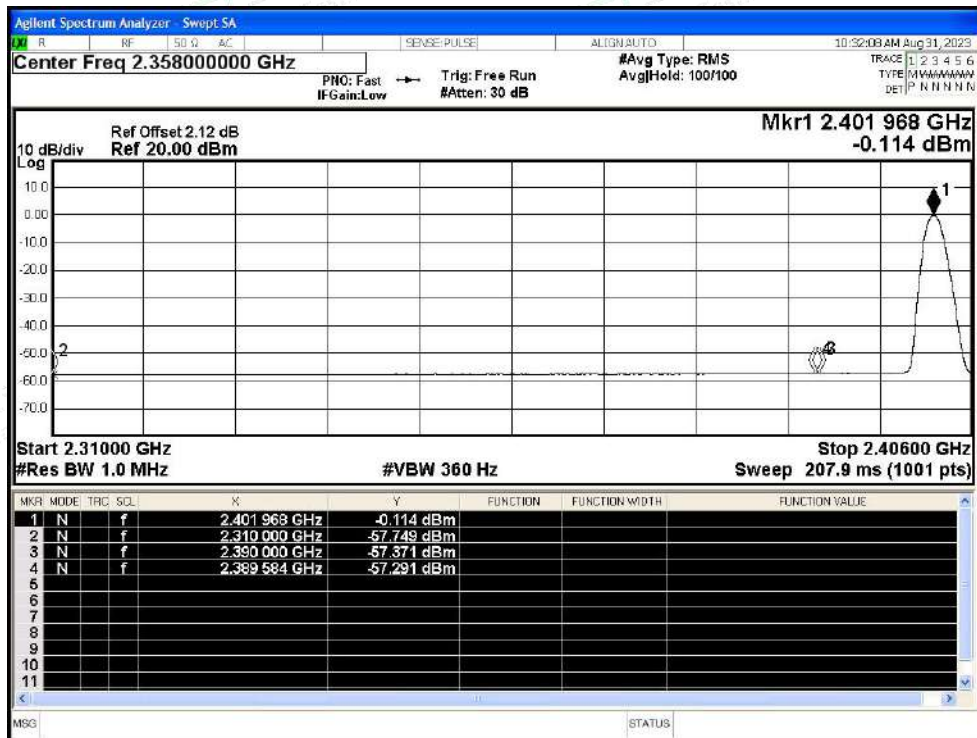


Test Graphs

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

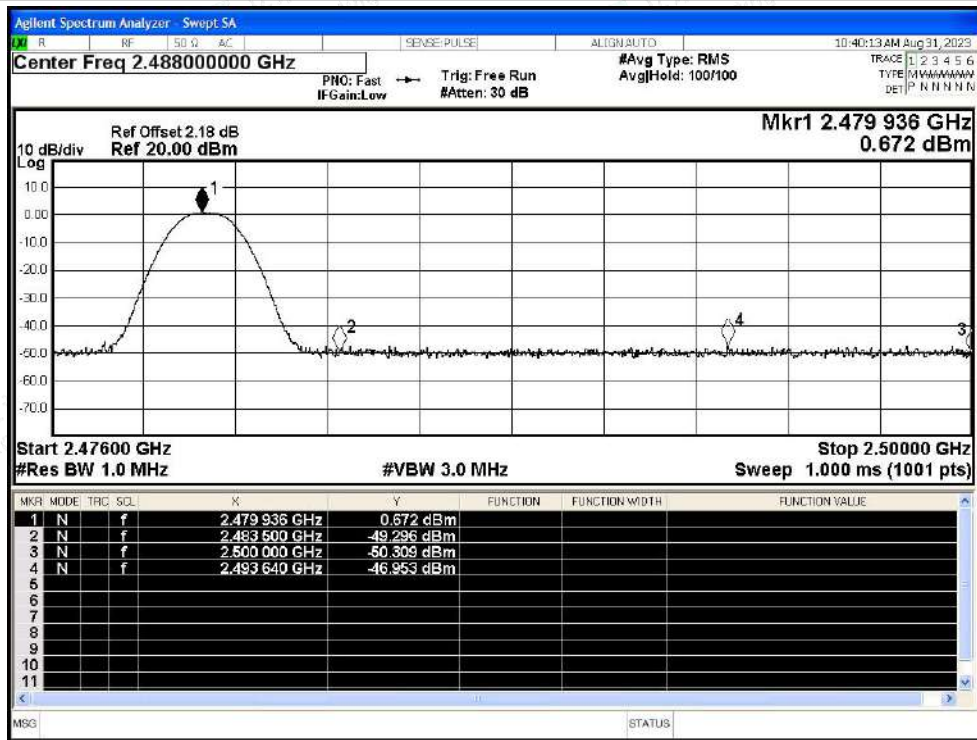


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

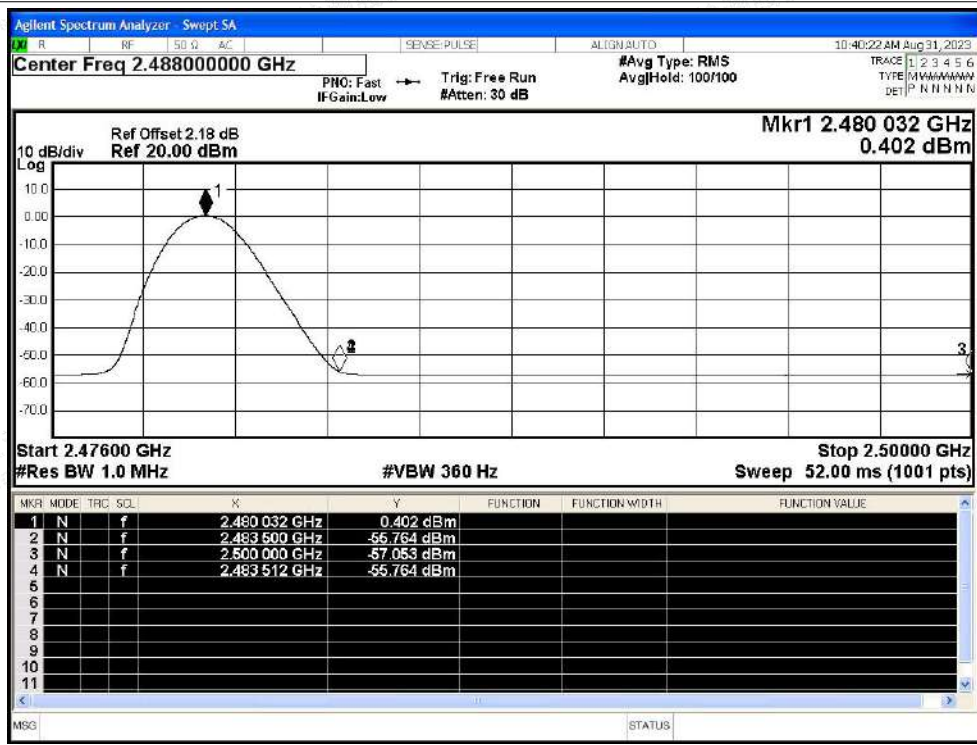




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

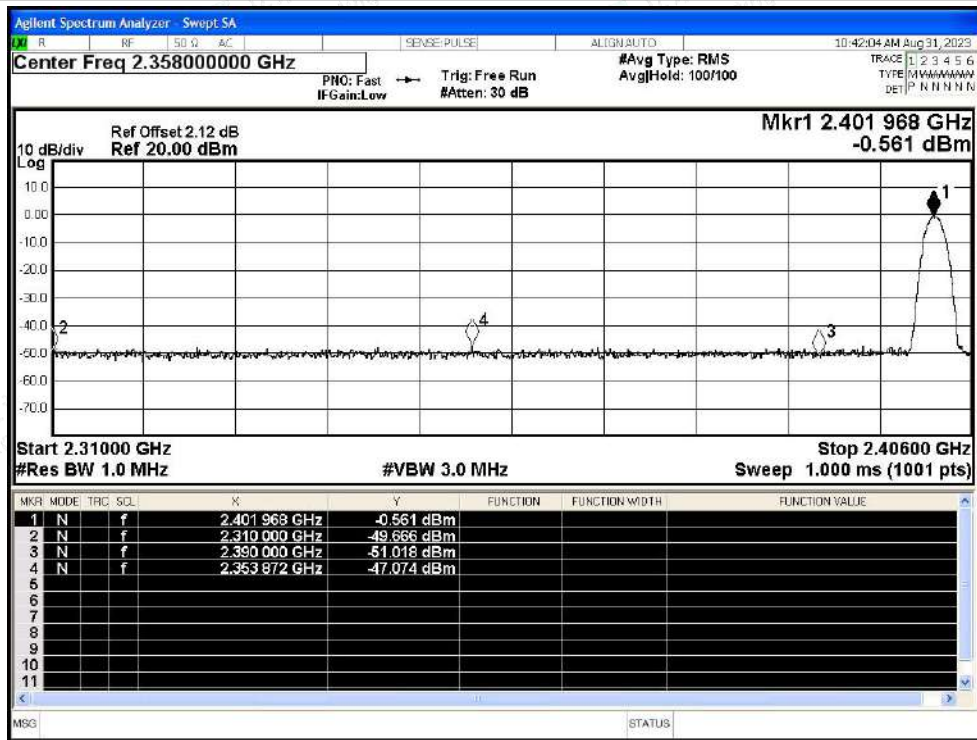


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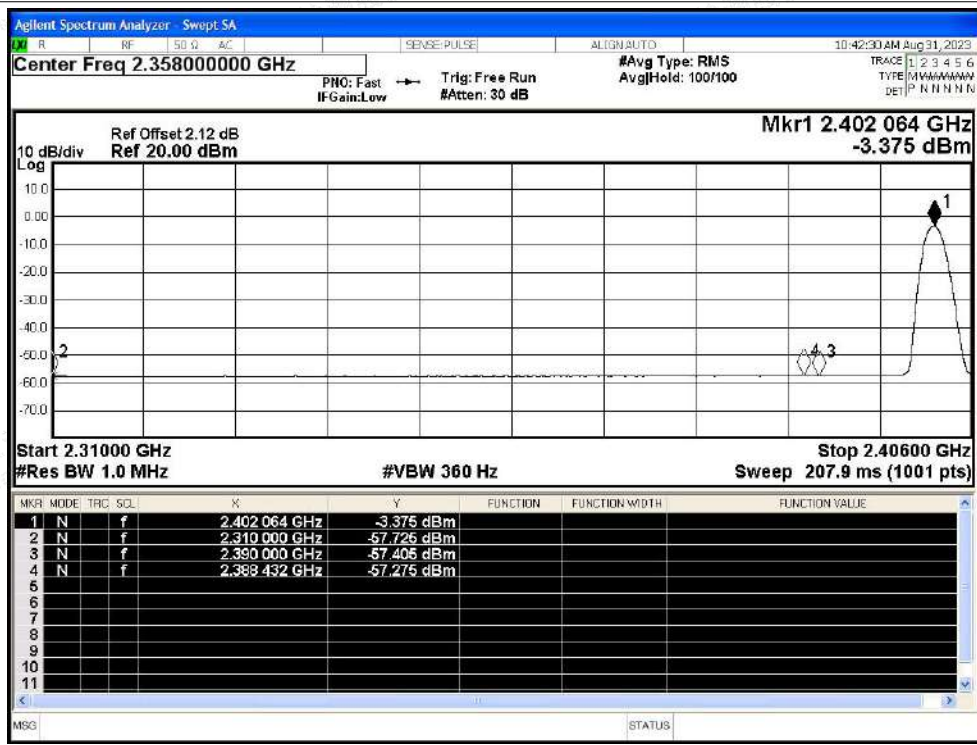




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

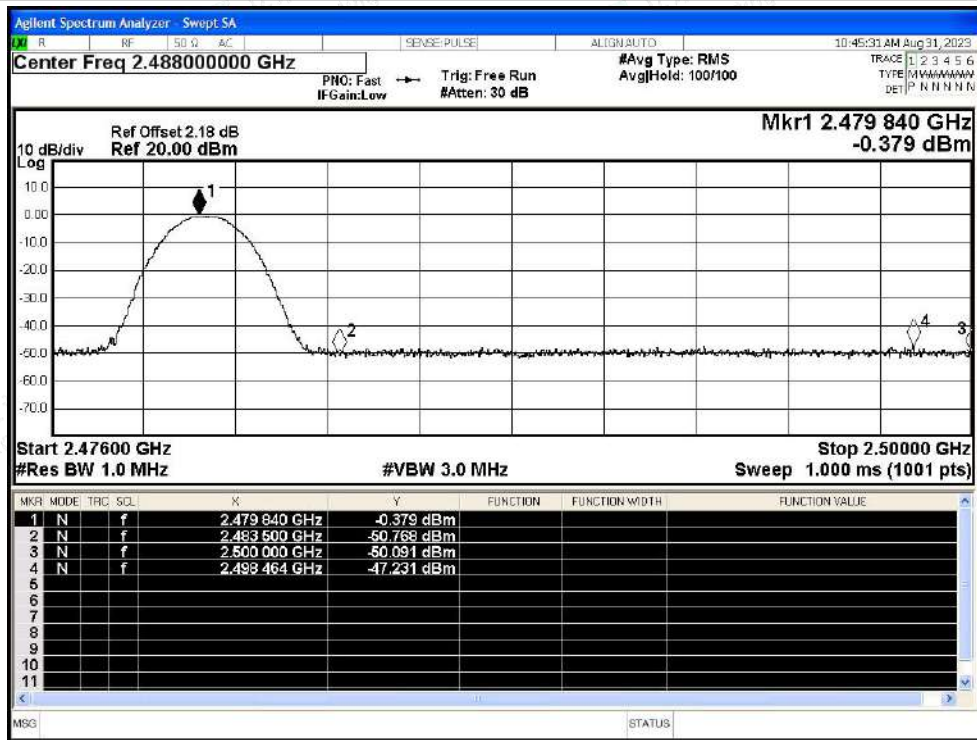


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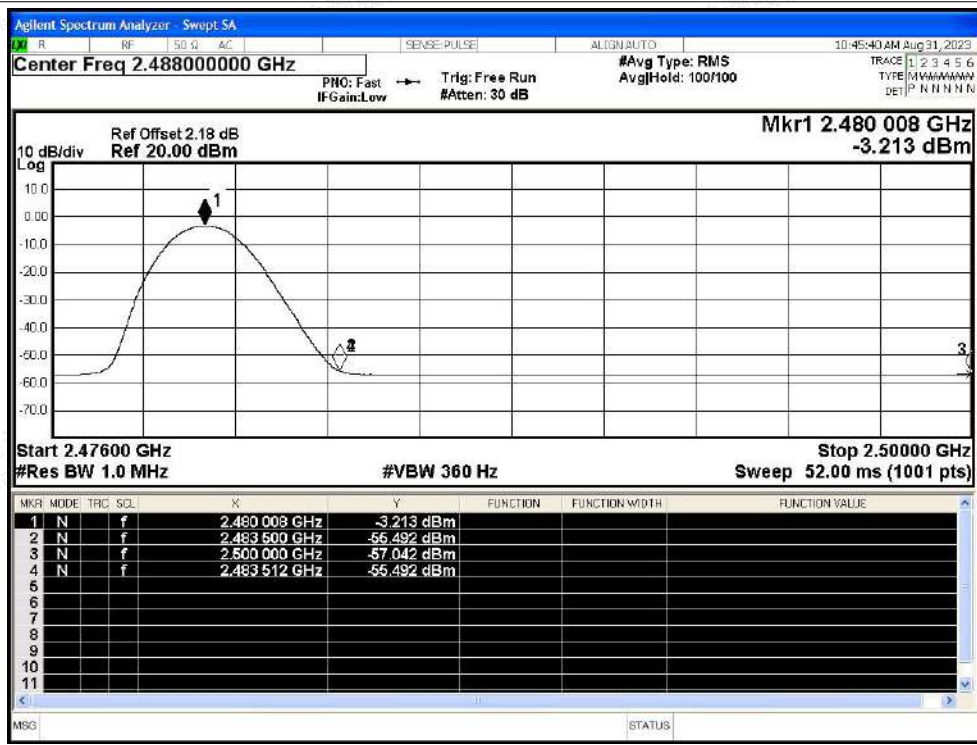




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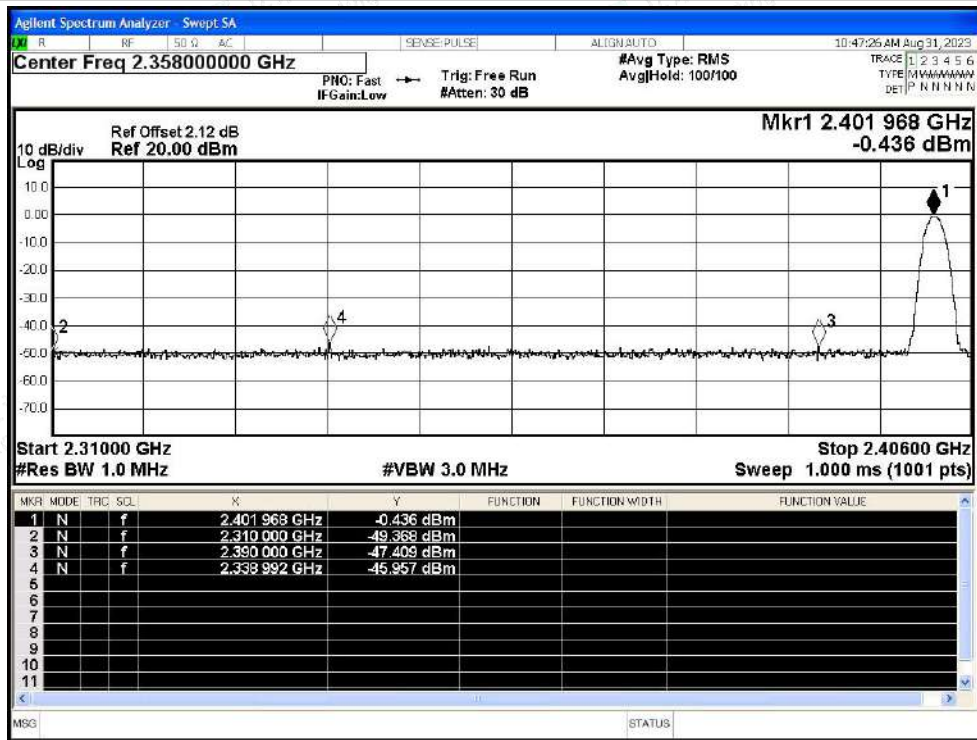


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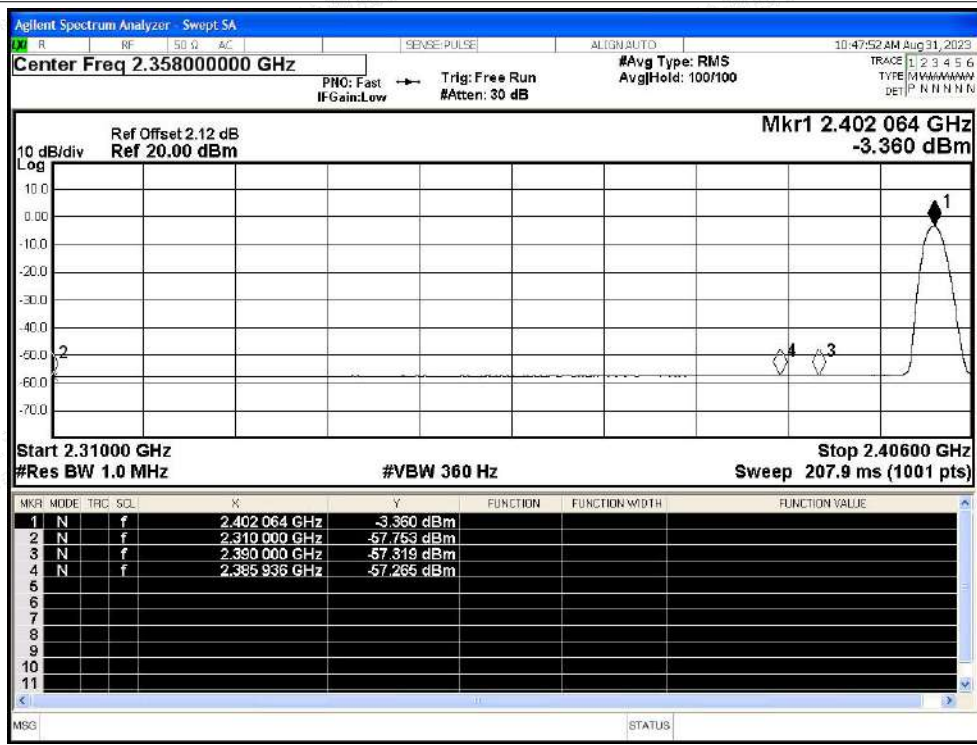




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

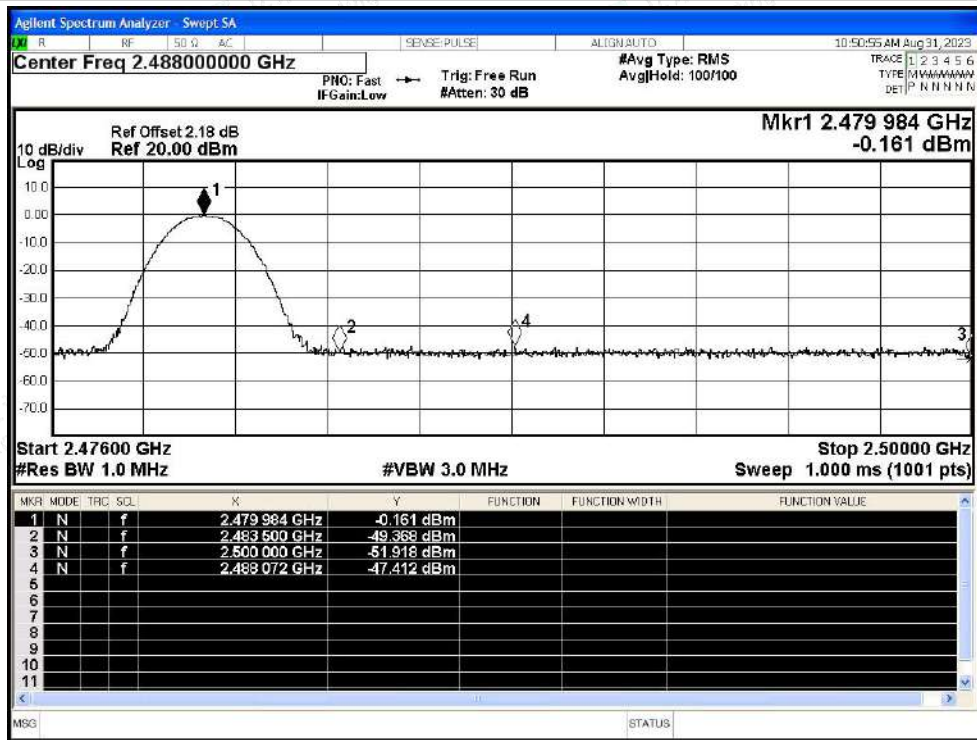


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average

