



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Interactive touch all-in-one machine

Test Model: TV-65810

Environmental Conditions

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



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A.1 -20dB Bandwidth

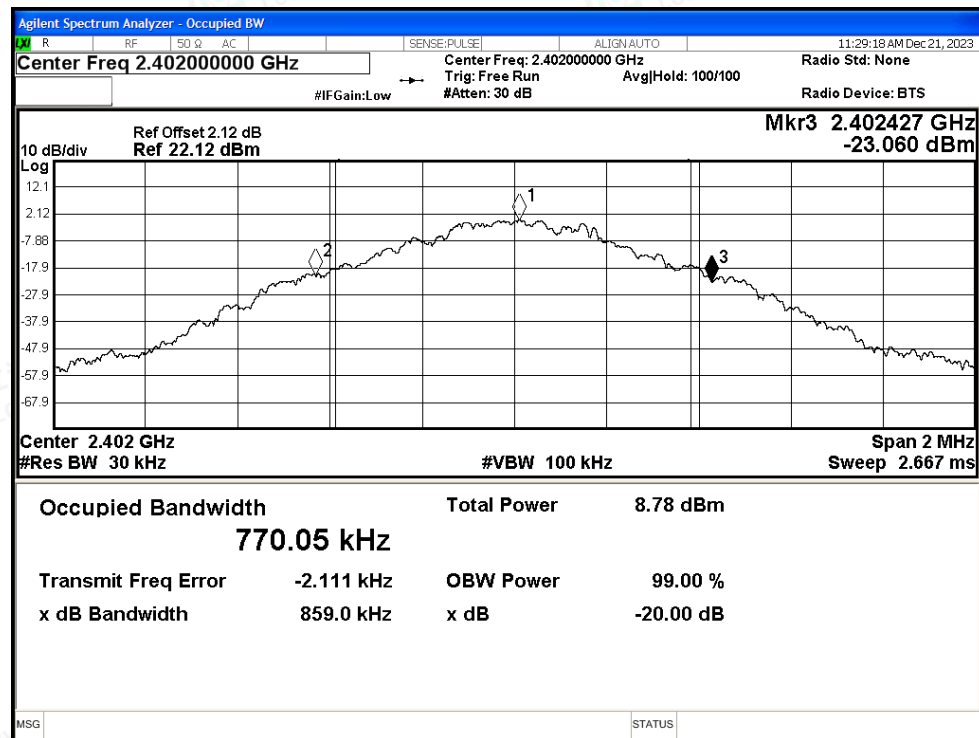
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant0	0.859	N/A	Pass
NVNT	1-DH5	2441	Ant0	0.929	N/A	Pass
NVNT	1-DH5	2480	Ant0	0.888	N/A	Pass
NVNT	2-DH5	2402	Ant0	1.29	N/A	Pass
NVNT	2-DH5	2441	Ant0	1.311	N/A	Pass
NVNT	2-DH5	2480	Ant0	1.295	N/A	Pass
NVNT	3-DH5	2402	Ant0	1.307	N/A	Pass
NVNT	3-DH5	2441	Ant0	1.301	N/A	Pass
NVNT	3-DH5	2480	Ant0	1.285	N/A	Pass



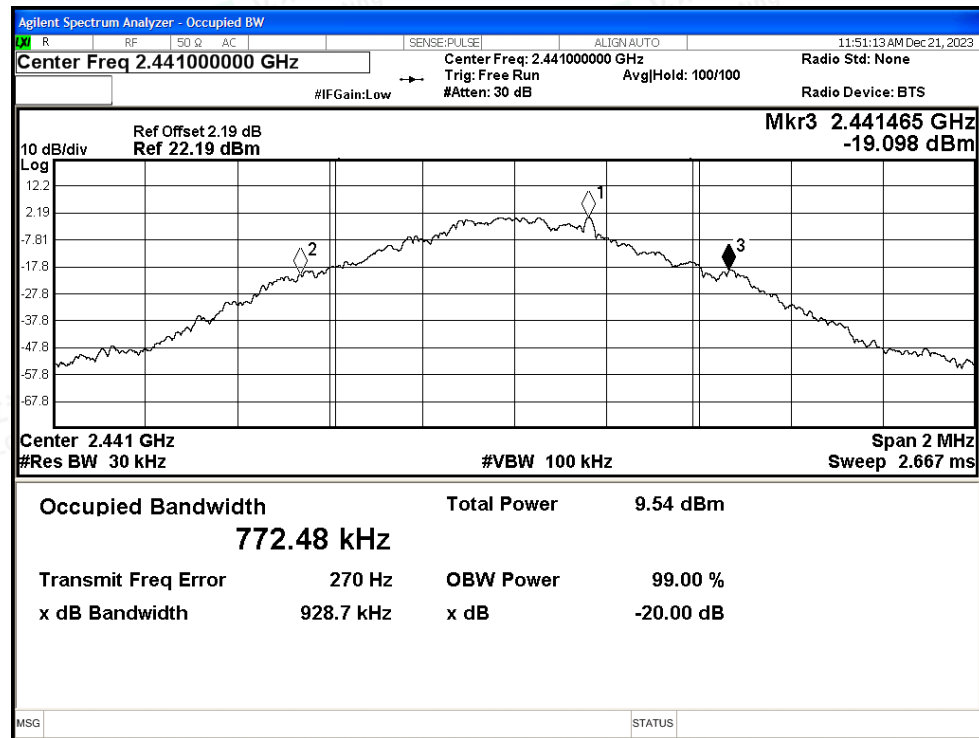


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant0

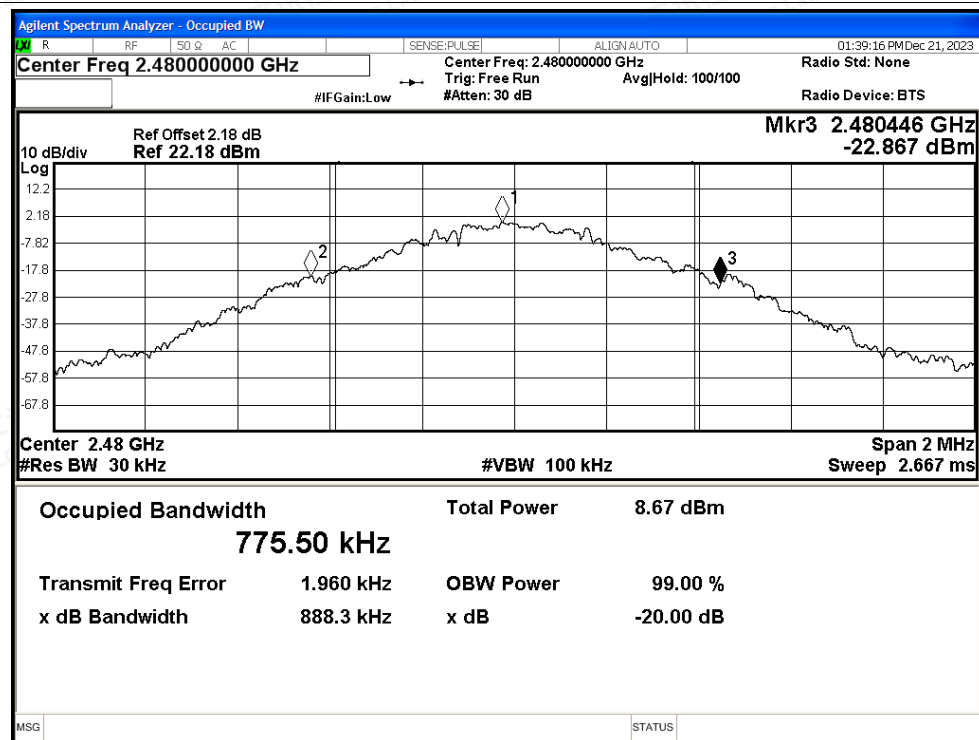


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant0

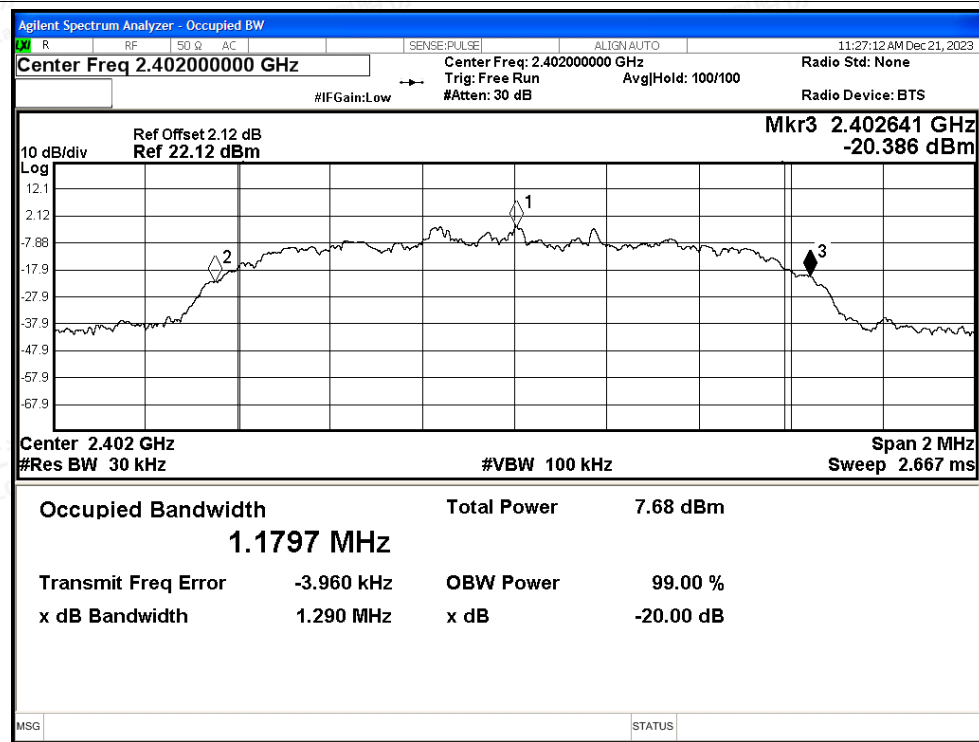




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant0

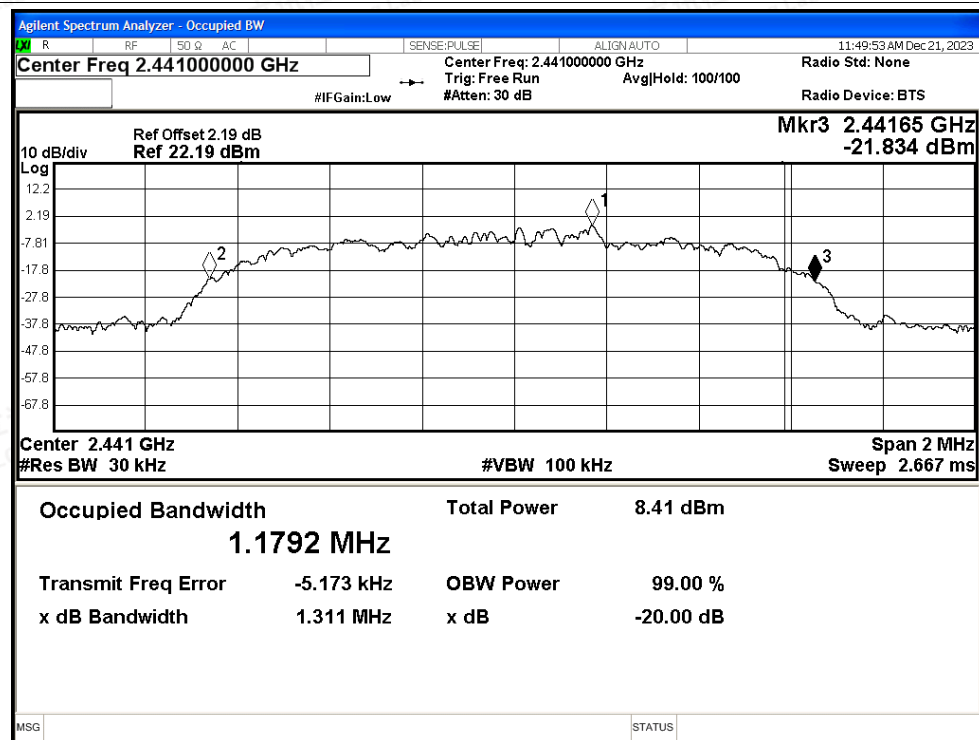


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant0

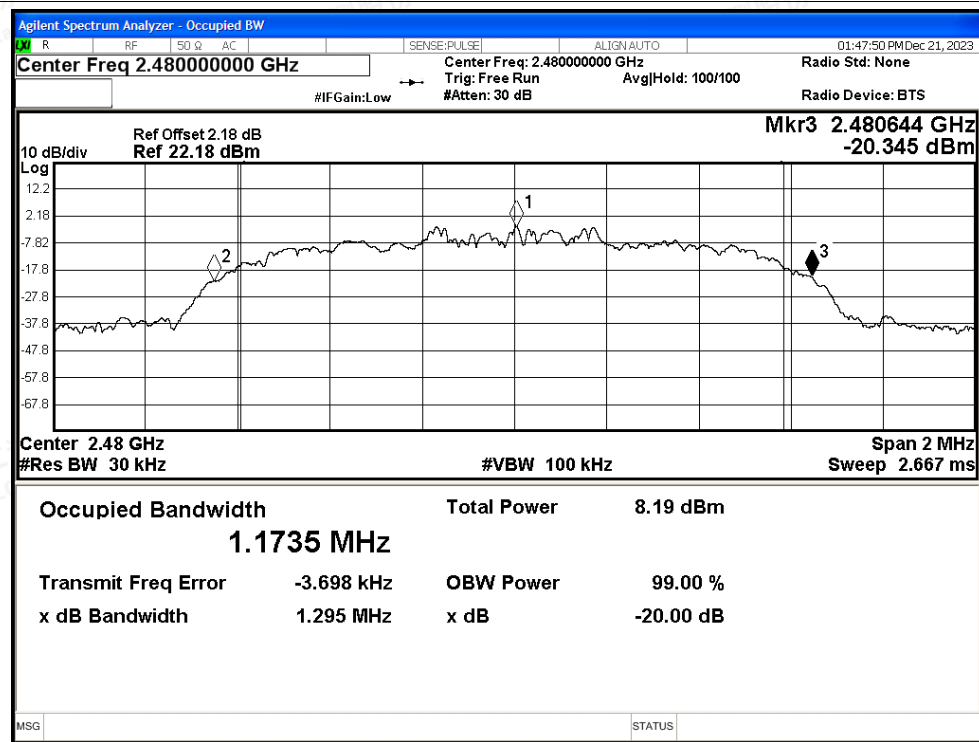




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant0

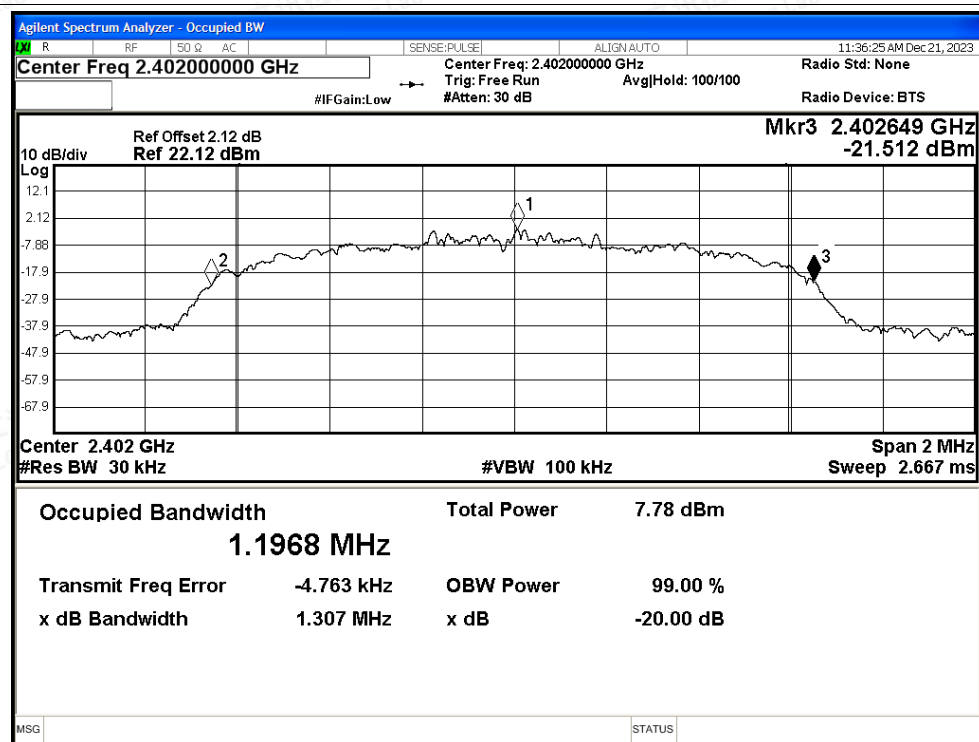


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant0

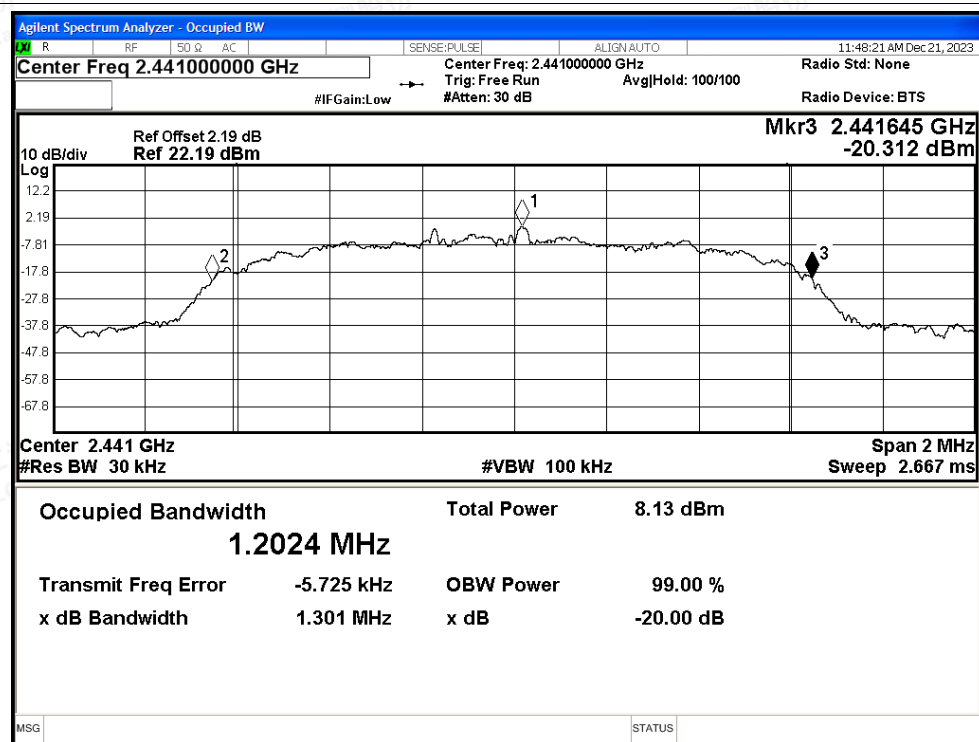


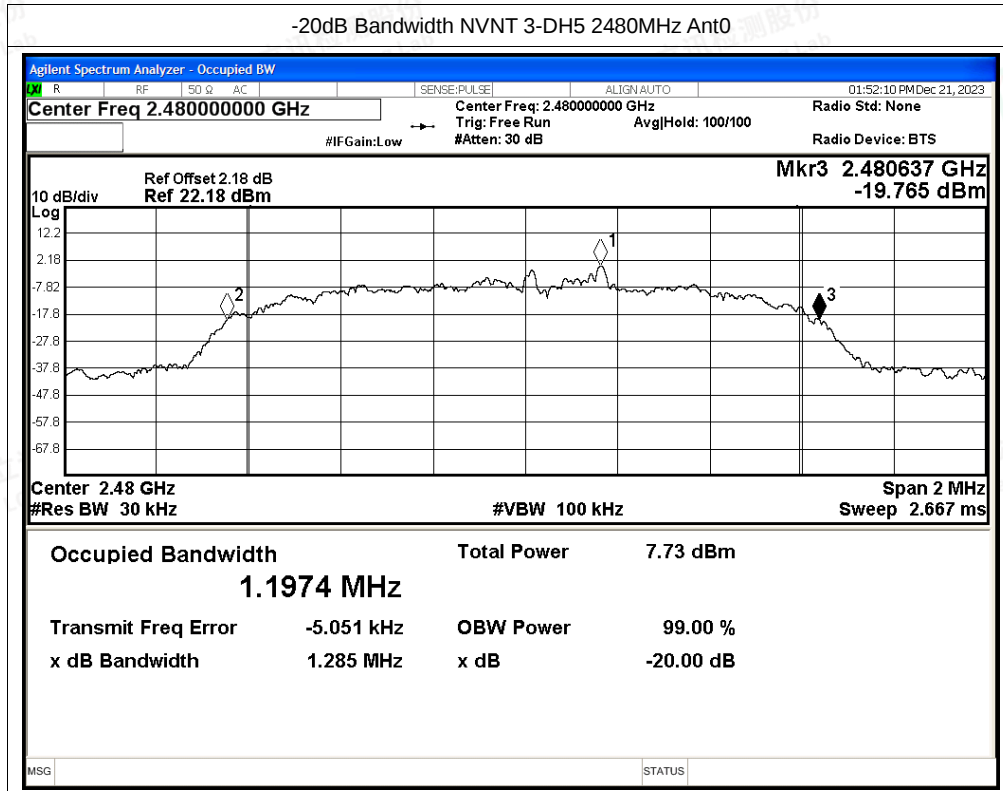


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant0



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant0







A.2 Maximum Peak Conducted Output Power

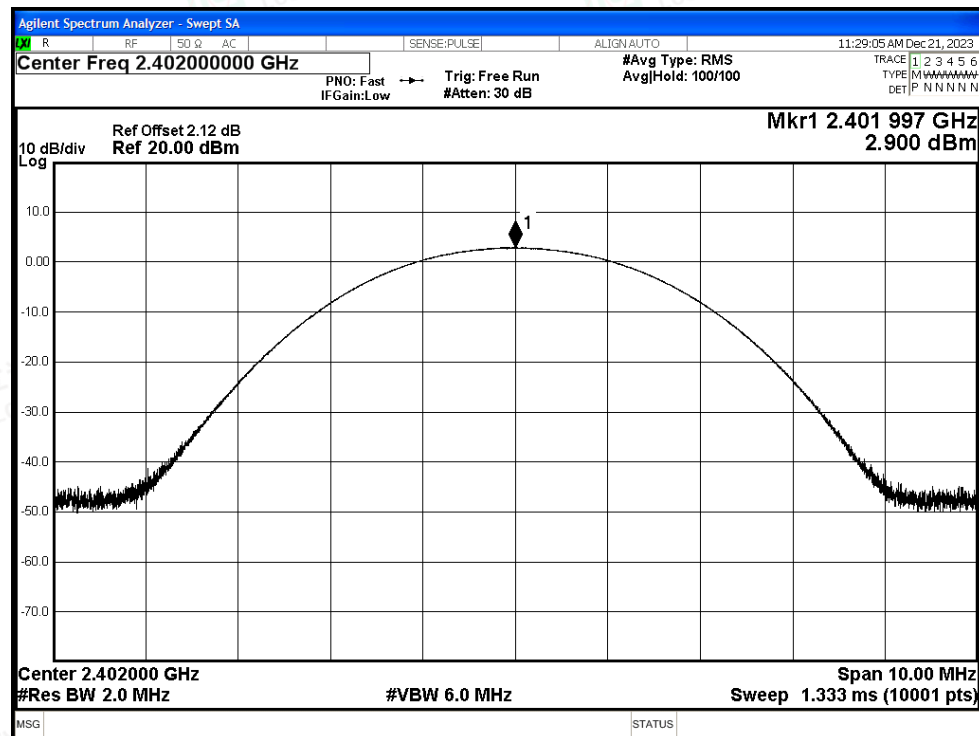
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant0	2.9	21	Pass
NVNT	1-DH5	2441	Ant0	3.56	21	Pass
NVNT	1-DH5	2480	Ant0	3.03	21	Pass
NVNT	2-DH5	2402	Ant0	3	21	Pass
NVNT	2-DH5	2441	Ant0	3.65	21	Pass
NVNT	2-DH5	2480	Ant0	3.04	21	Pass
NVNT	3-DH5	2402	Ant0	2.99	21	Pass
NVNT	3-DH5	2441	Ant0	3.65	21	Pass
NVNT	3-DH5	2480	Ant0	3.03	21	Pass



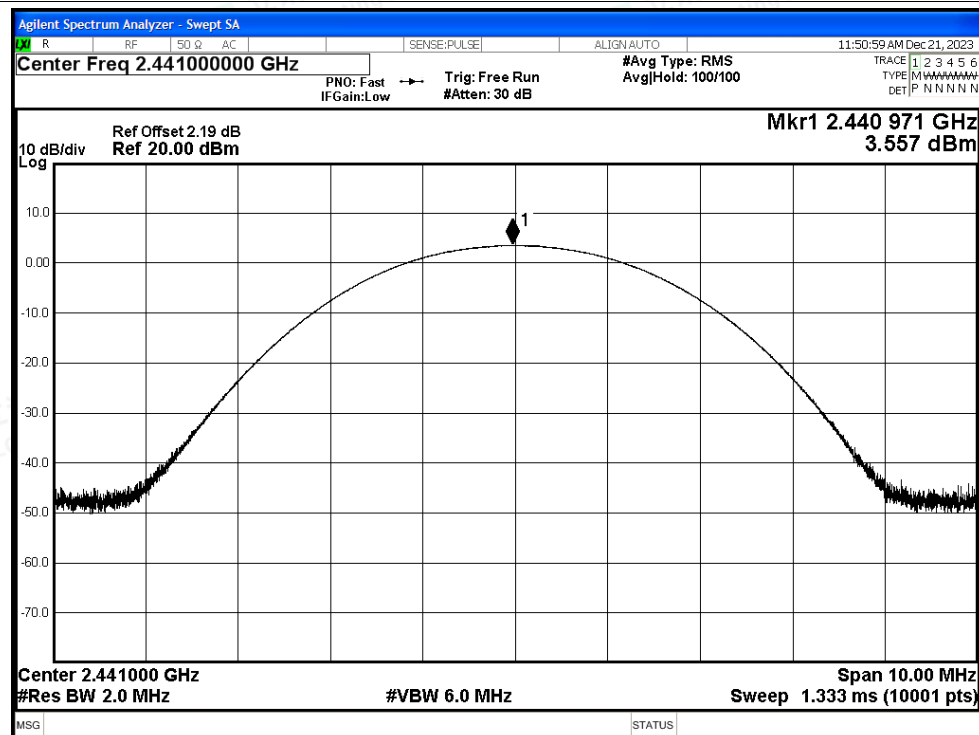


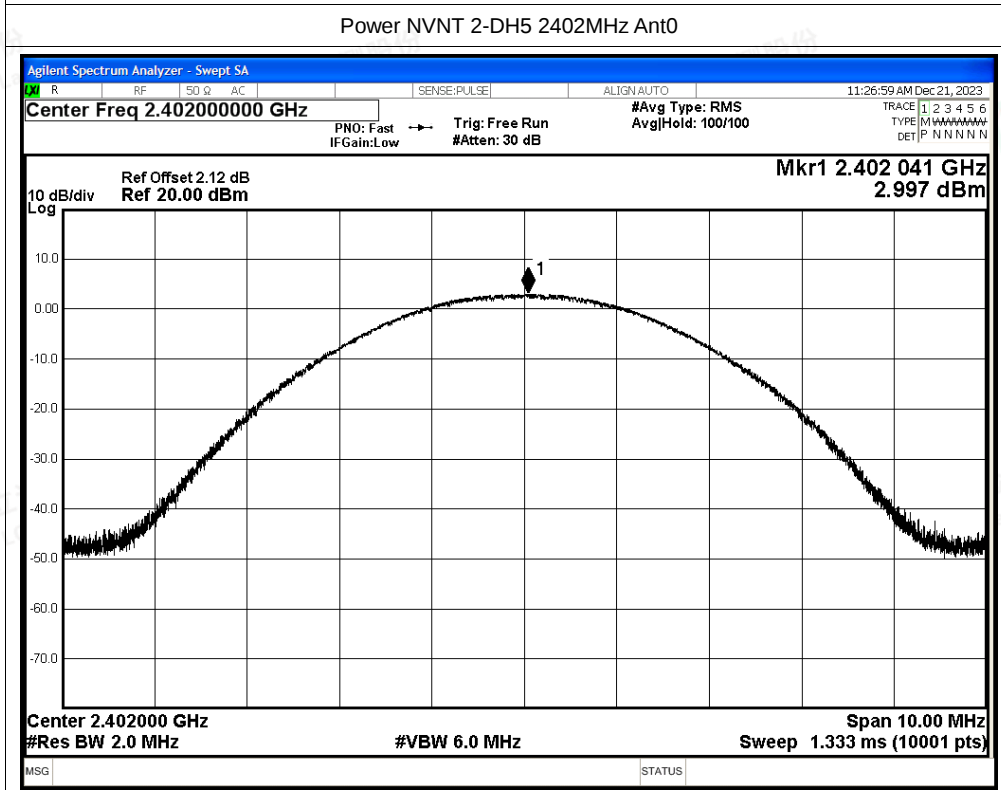
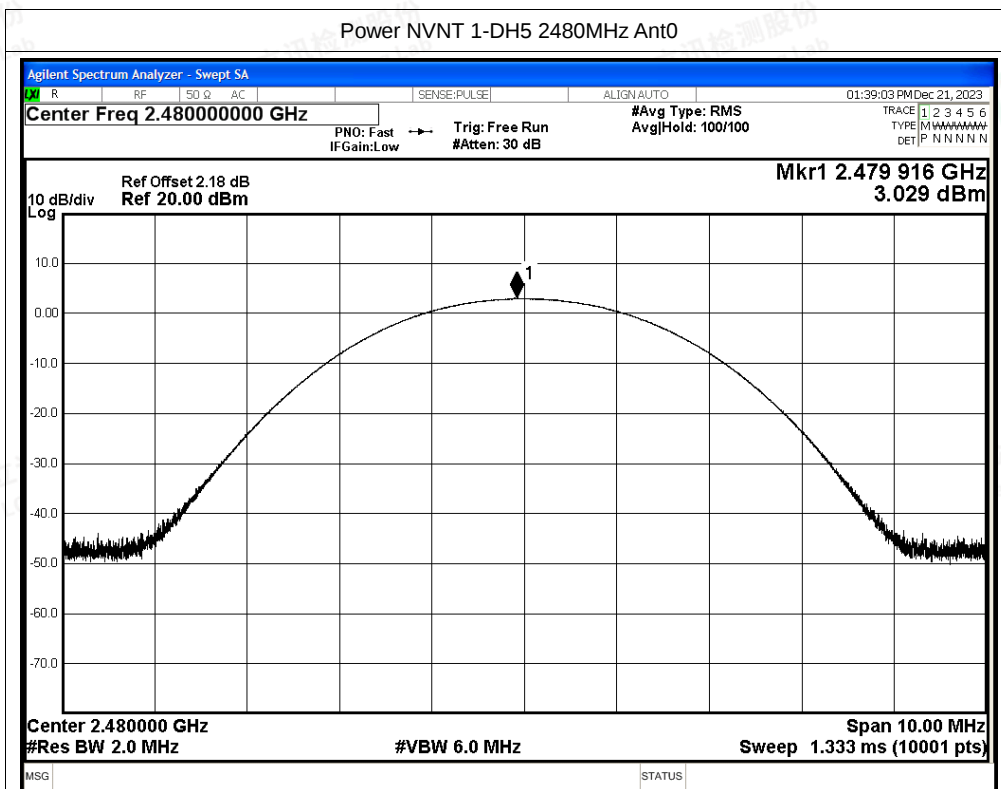
Test Graphs

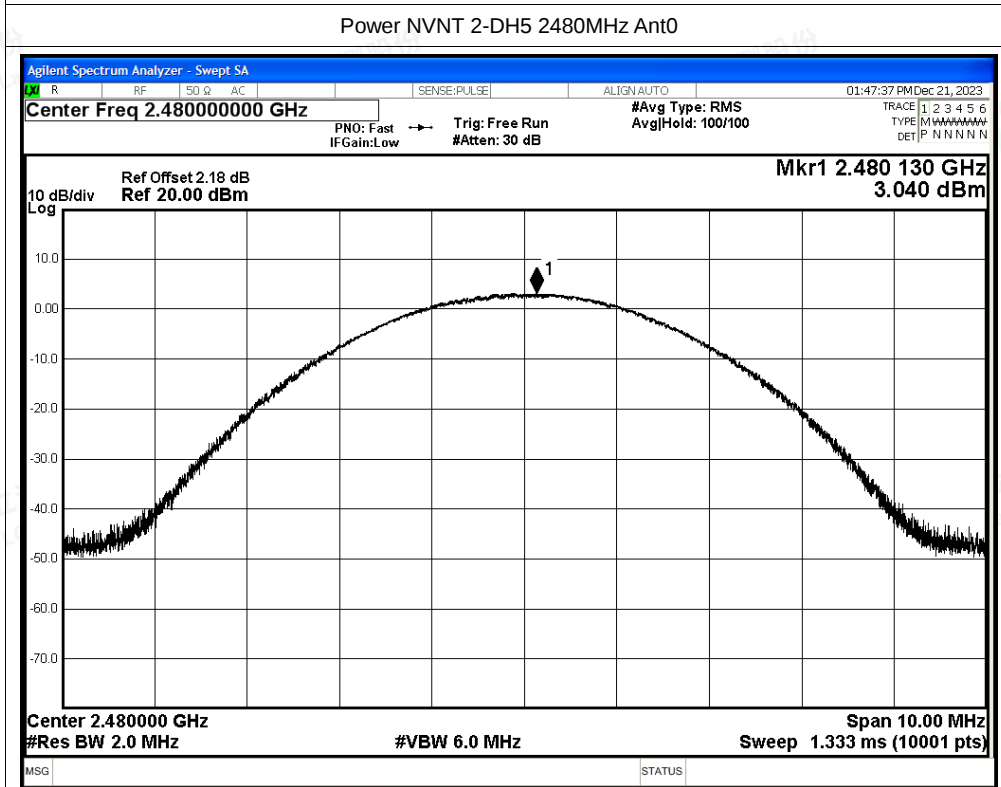
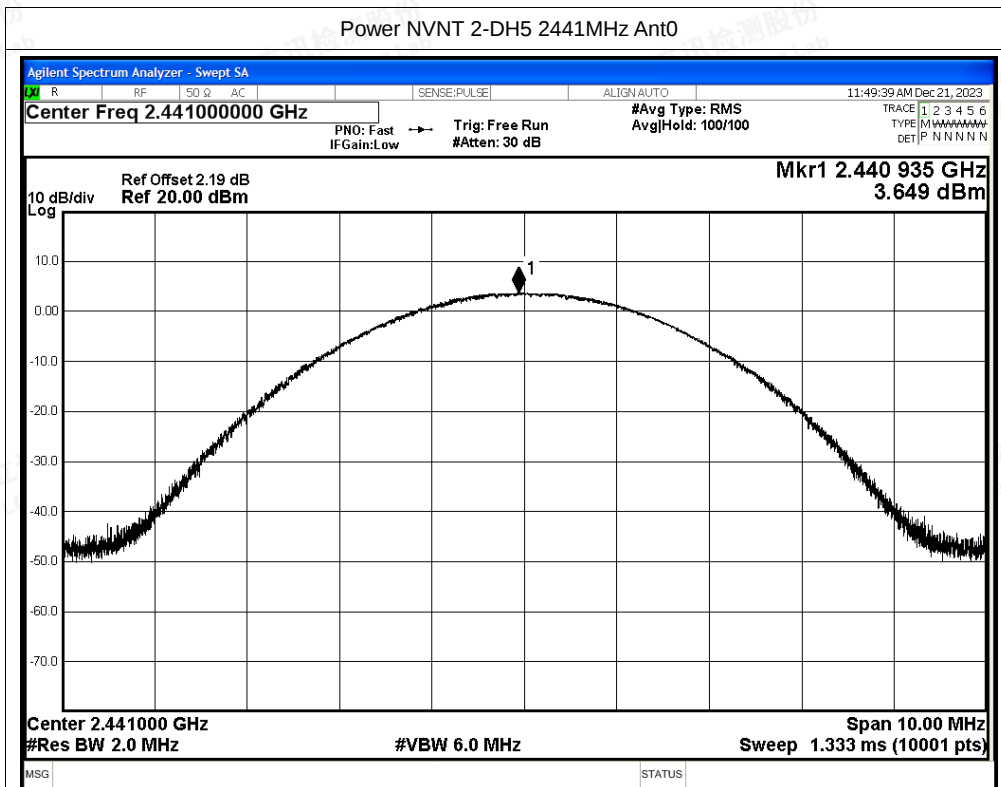
Power NVNT 1-DH5 2402MHz Ant0

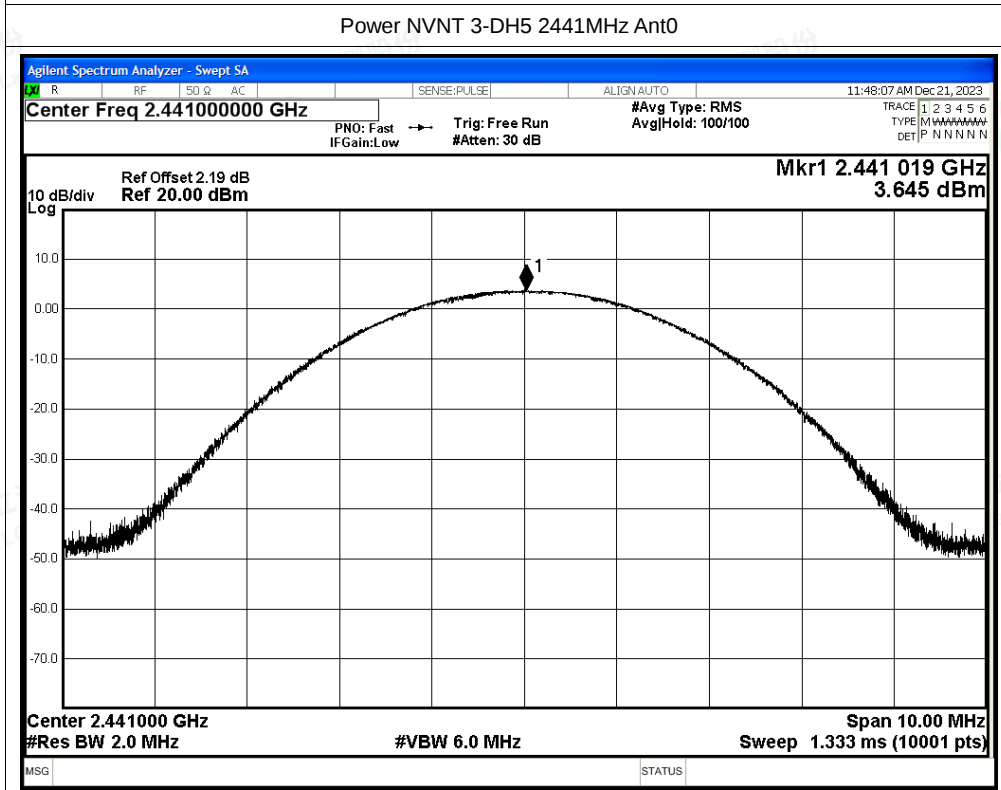
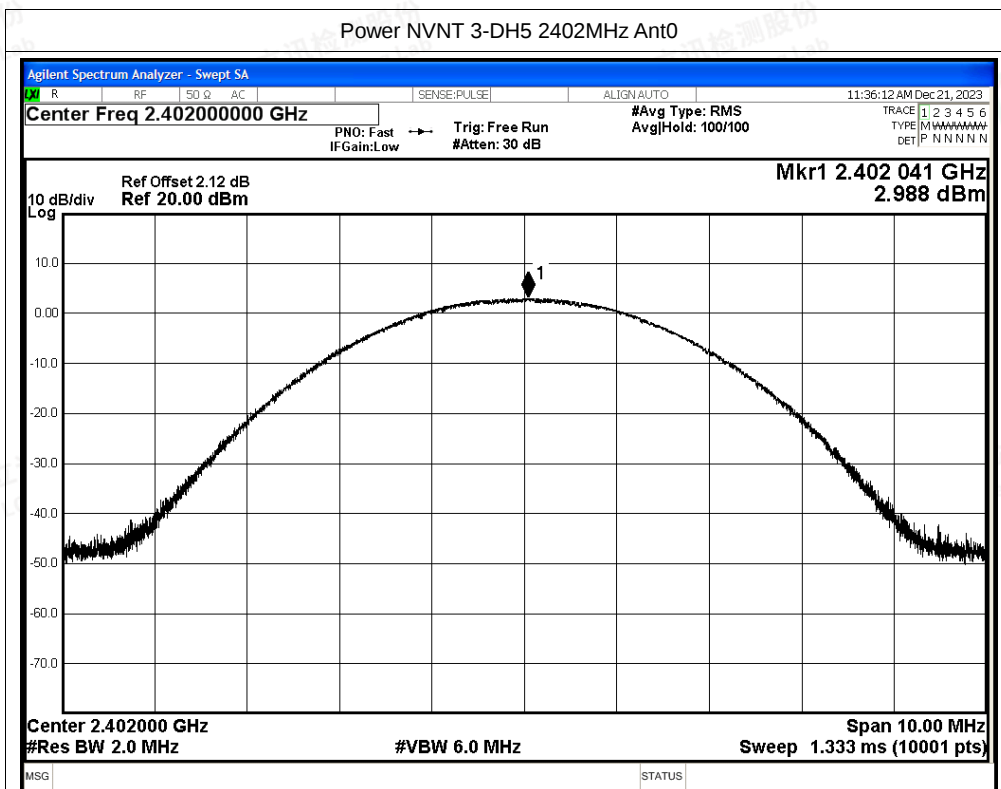


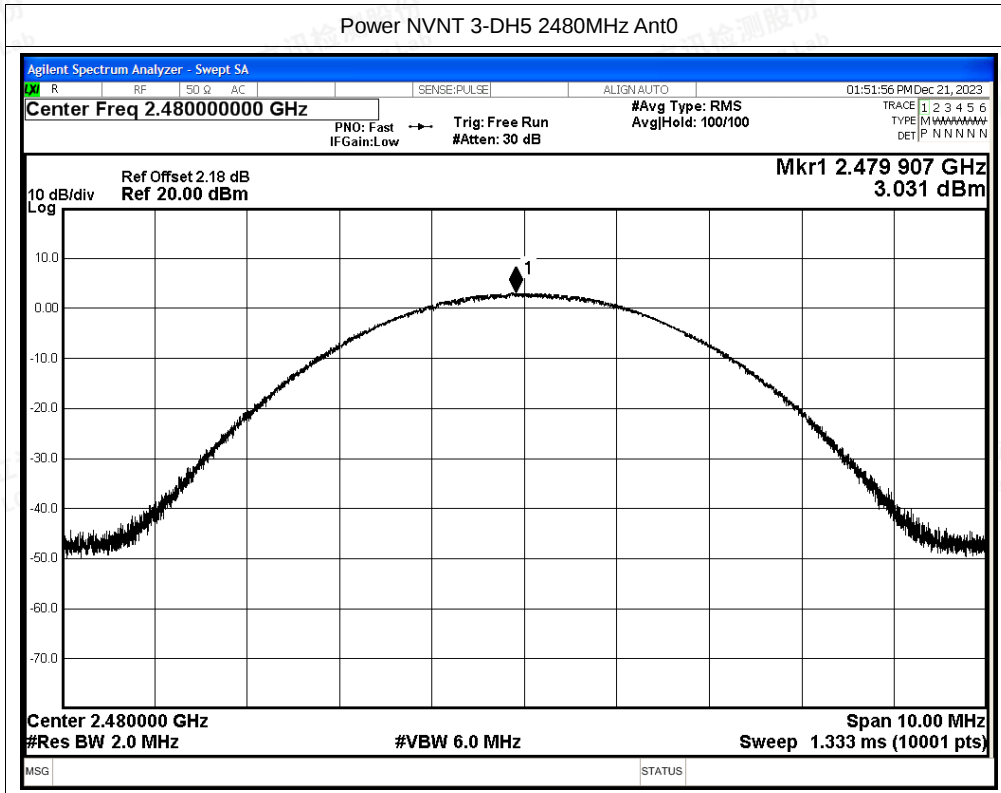
Power NVNT 1-DH5 2441MHz Ant0













A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant0	2402.154	2402.966	0.812	0.619	Pass
NVNT	2-DH5	Ant0	2402.002	2403.004	1.002	0.874	Pass
NVNT	3-DH5	Ant0	2402.02	2403.16	1.14	0.871	Pass

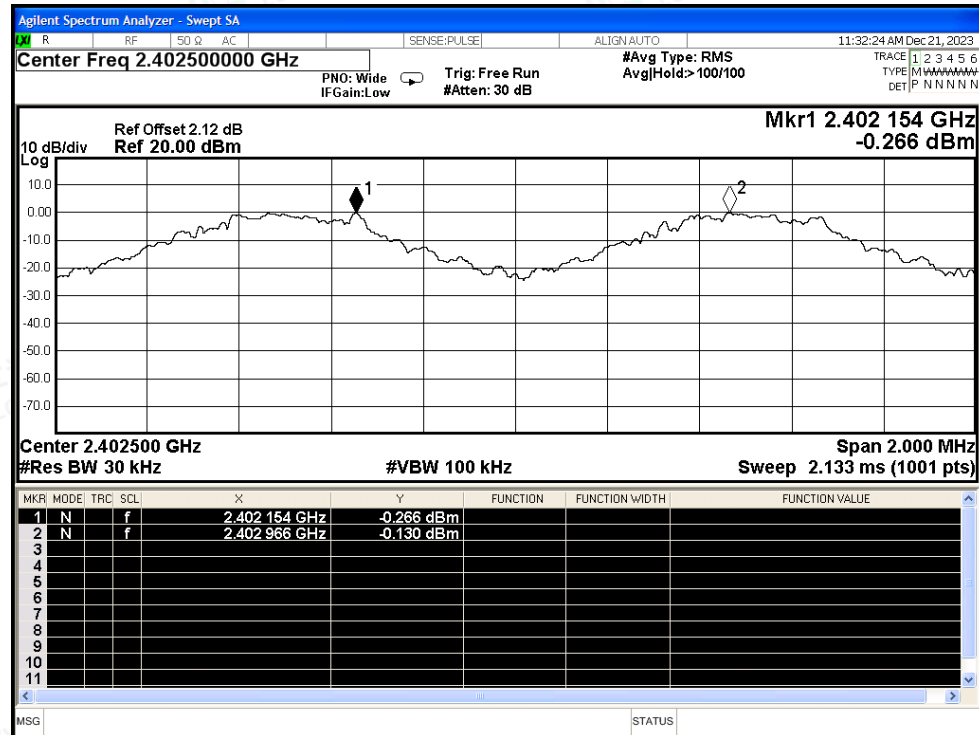


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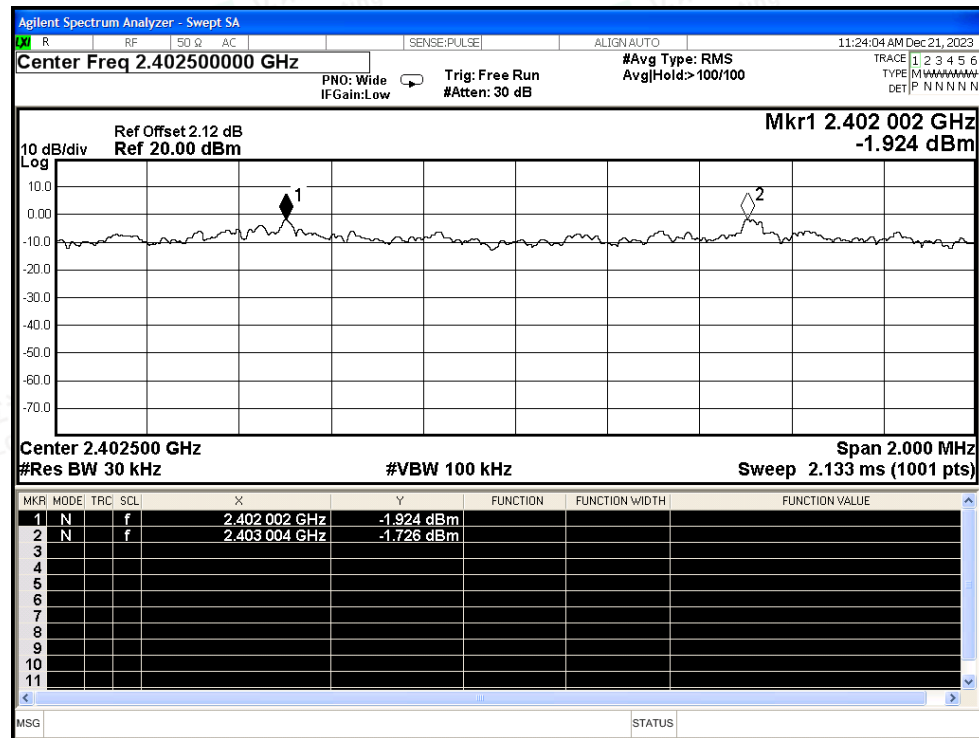


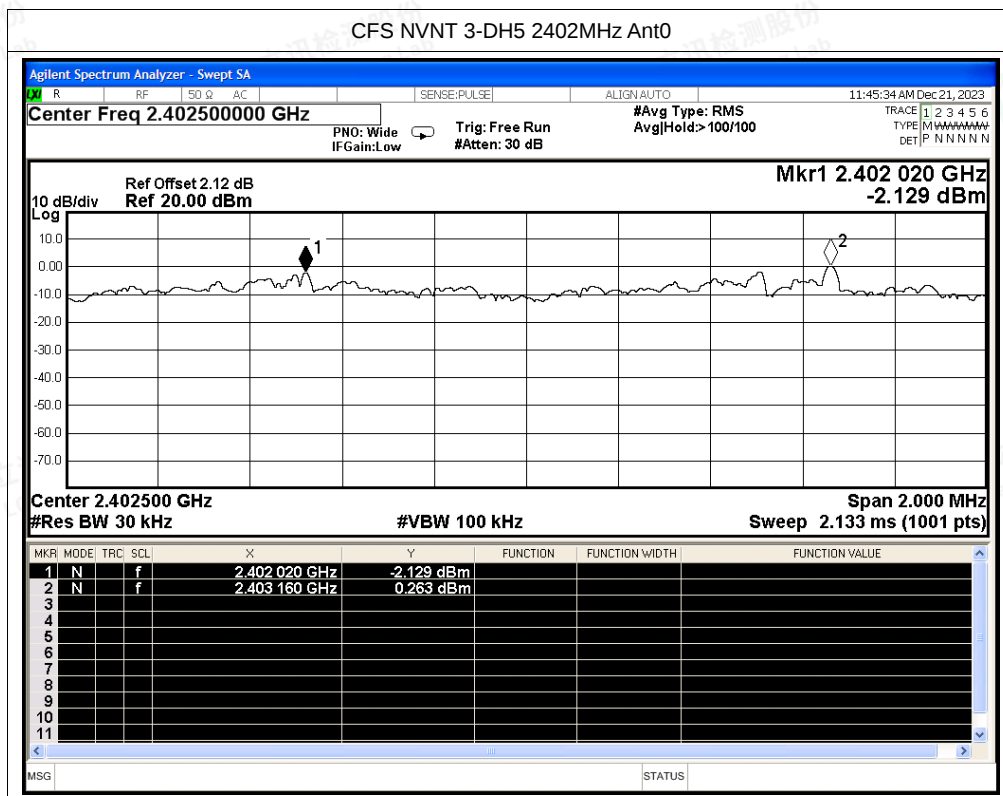
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant0



CFS NVNT 2-DH5 2402MHz Ant0







A.4 Dwell Time

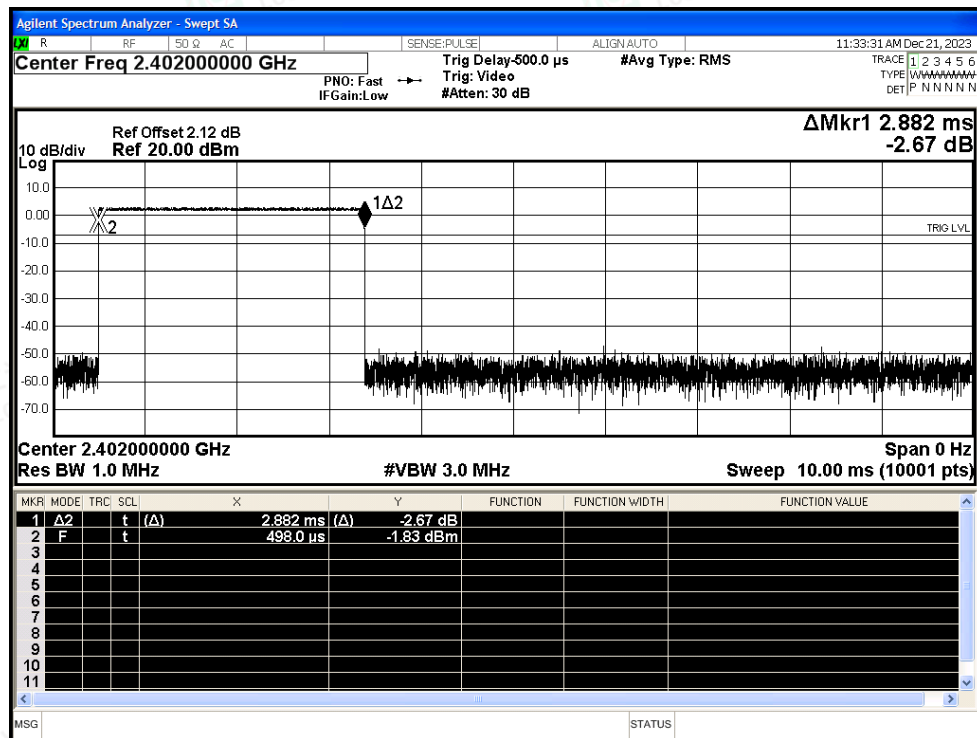
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant0	2.882	296.846	103	31600	400	Pass
NVNT	2-DH5	2402	Ant0	2.881	325.553	113	31600	400	Pass
NVNT	3-DH5	2402	Ant0	2.887	314.683	109	31600	400	Pass



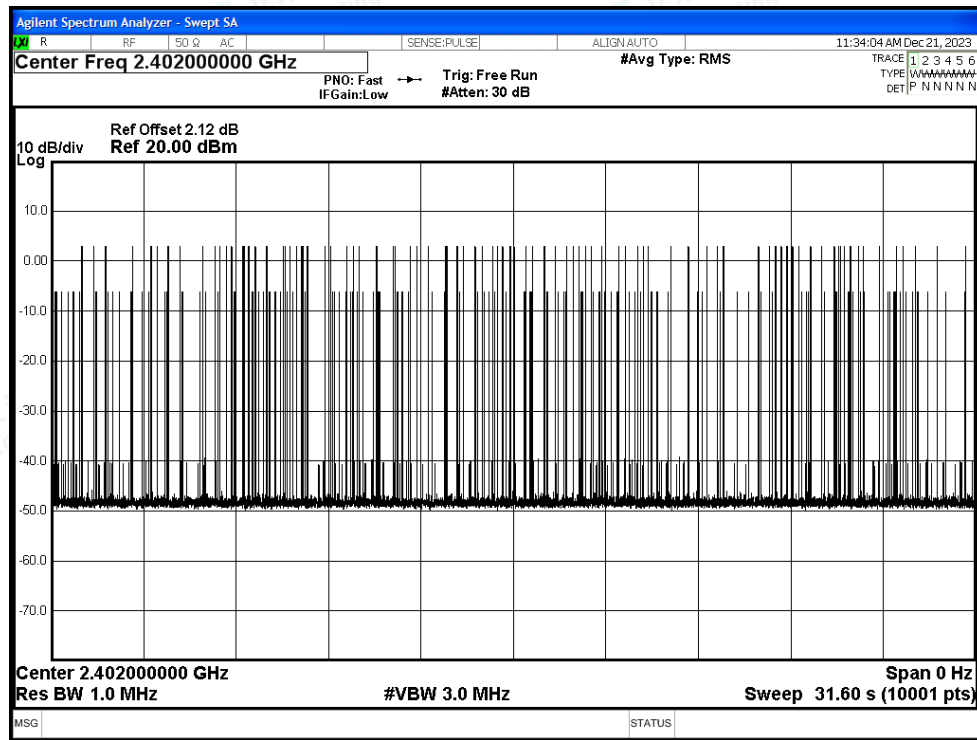


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant0 One Burst

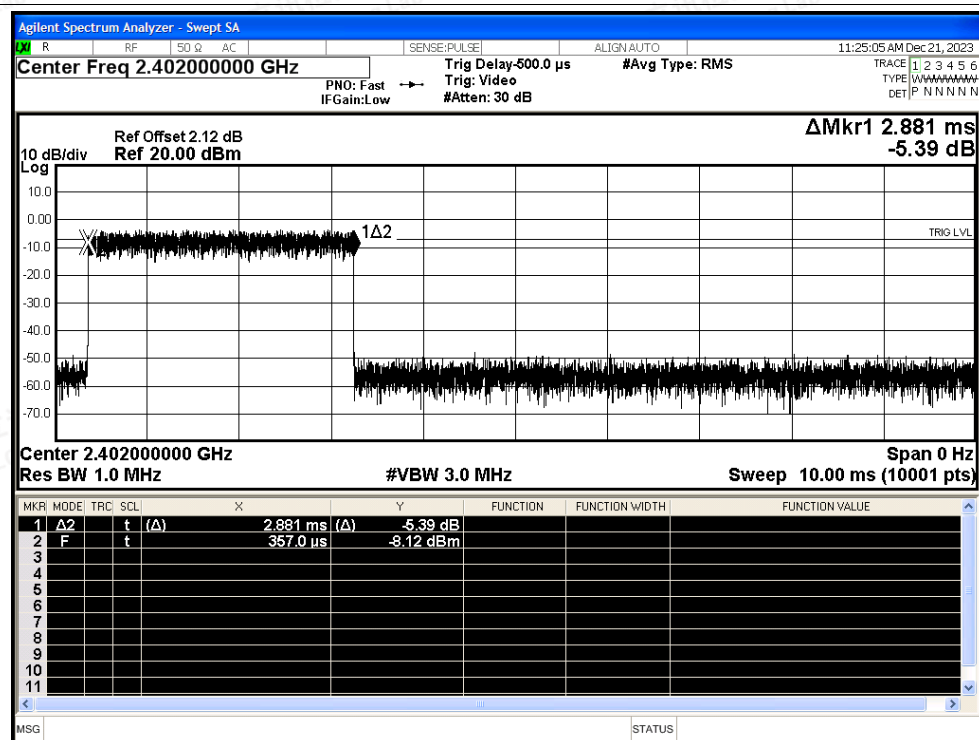


Dwell NVNT 1-DH5 2402MHz Ant0 Accumulated

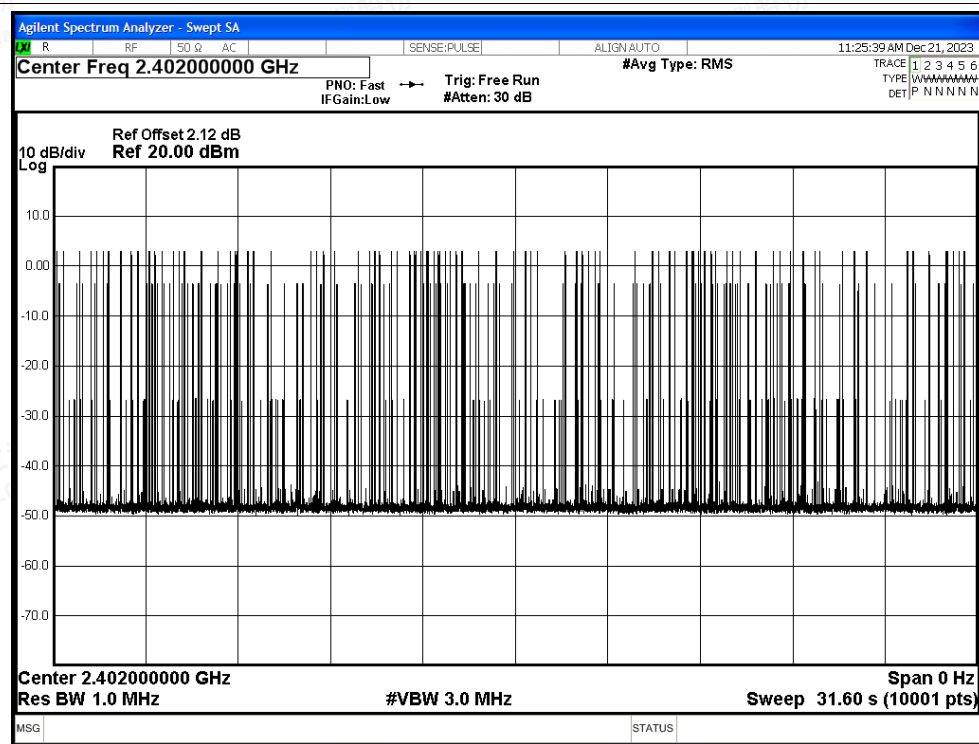




Dwell NVNT 2-DH5 2402MHz Ant0 One Burst

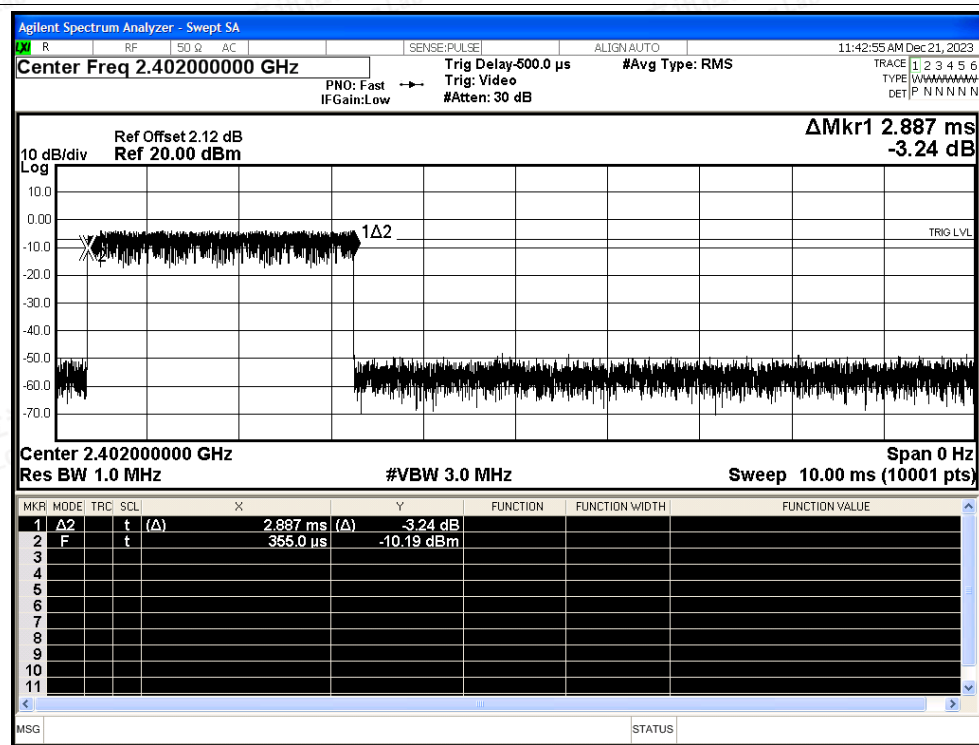


Dwell NVNT 2-DH5 2402MHz Ant0 Accumulated

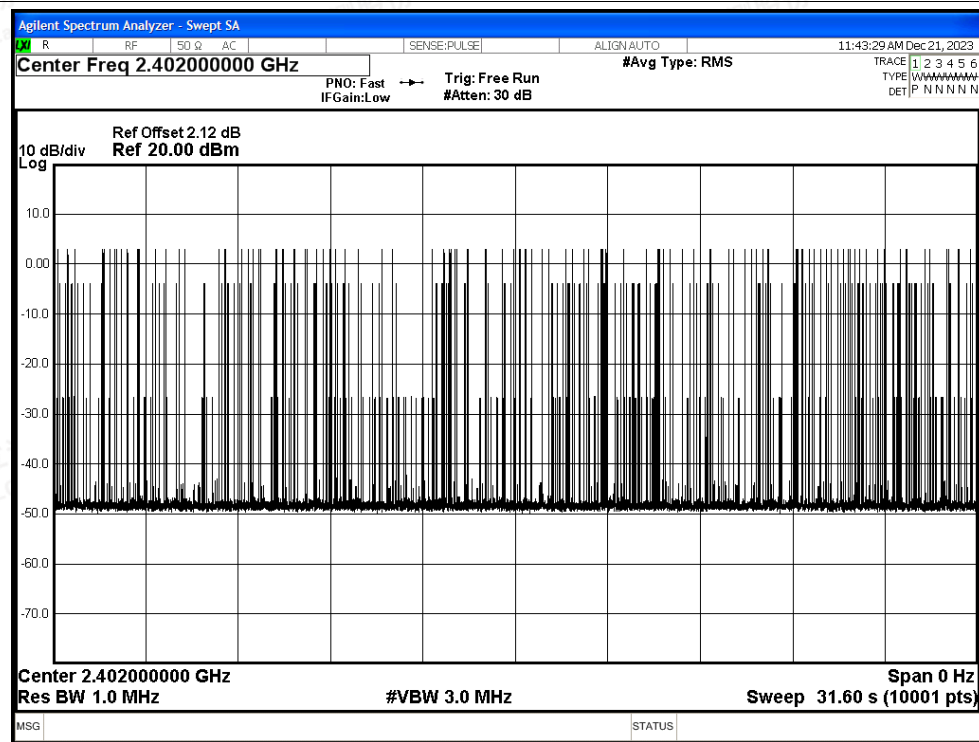




Dwell NVNT 3-DH5 2402MHz Ant0 One Burst



Dwell NVNT 3-DH5 2402MHz Ant0 Accumulated





A.5 Number of Hopping Channel

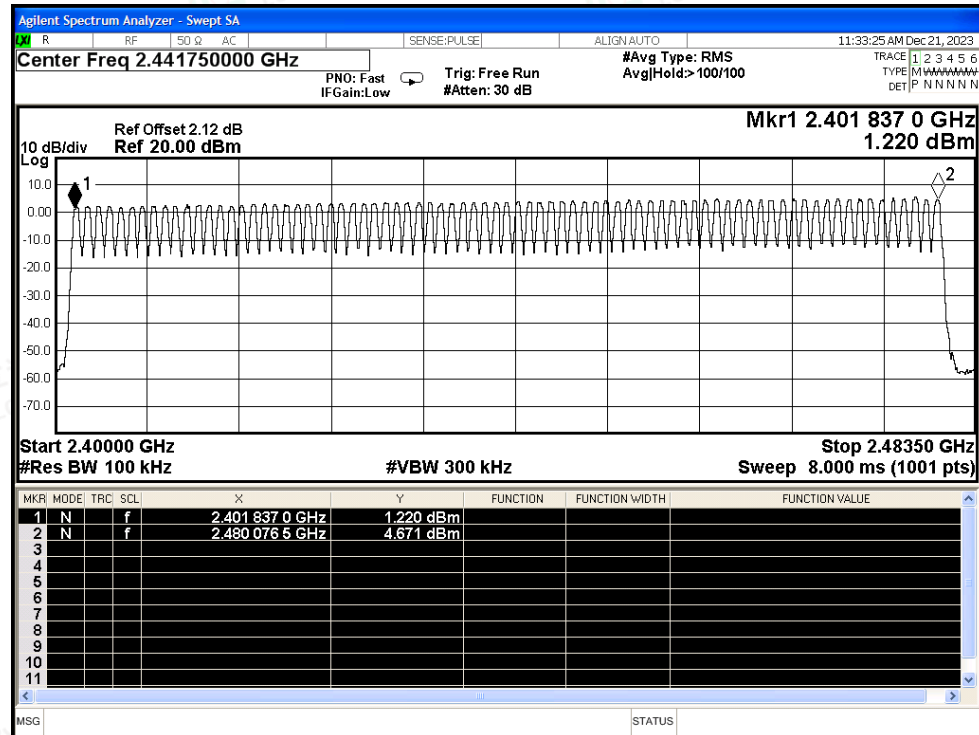
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant0	79	15	Pass
NVNT	2-DH5	Ant0	79	15	Pass
NVNT	3-DH5	Ant0	79	15	Pass



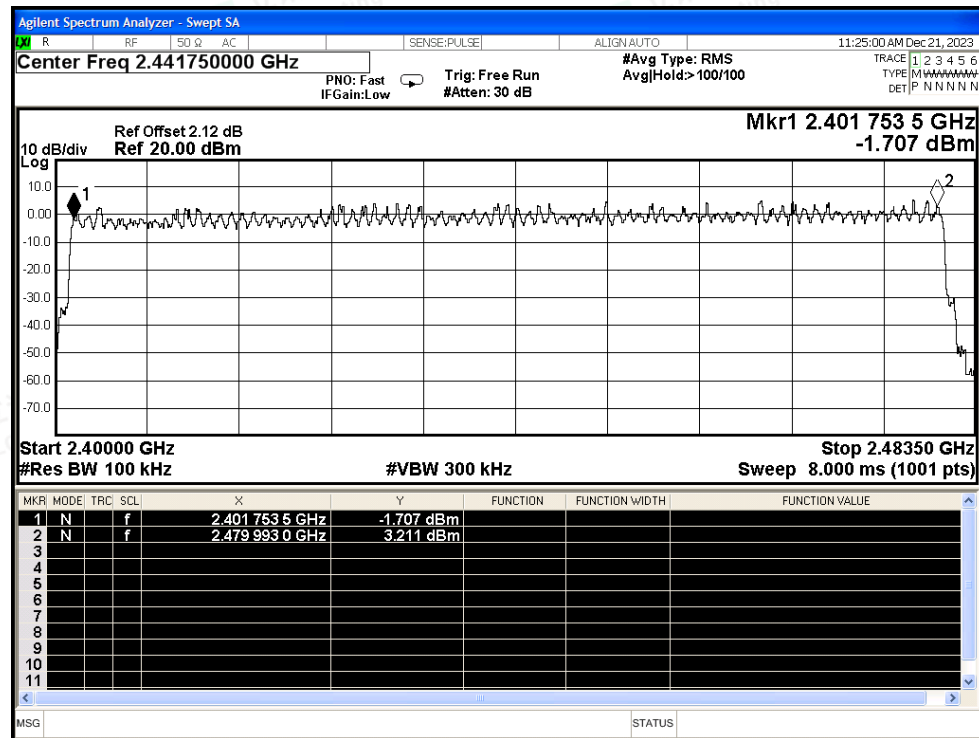


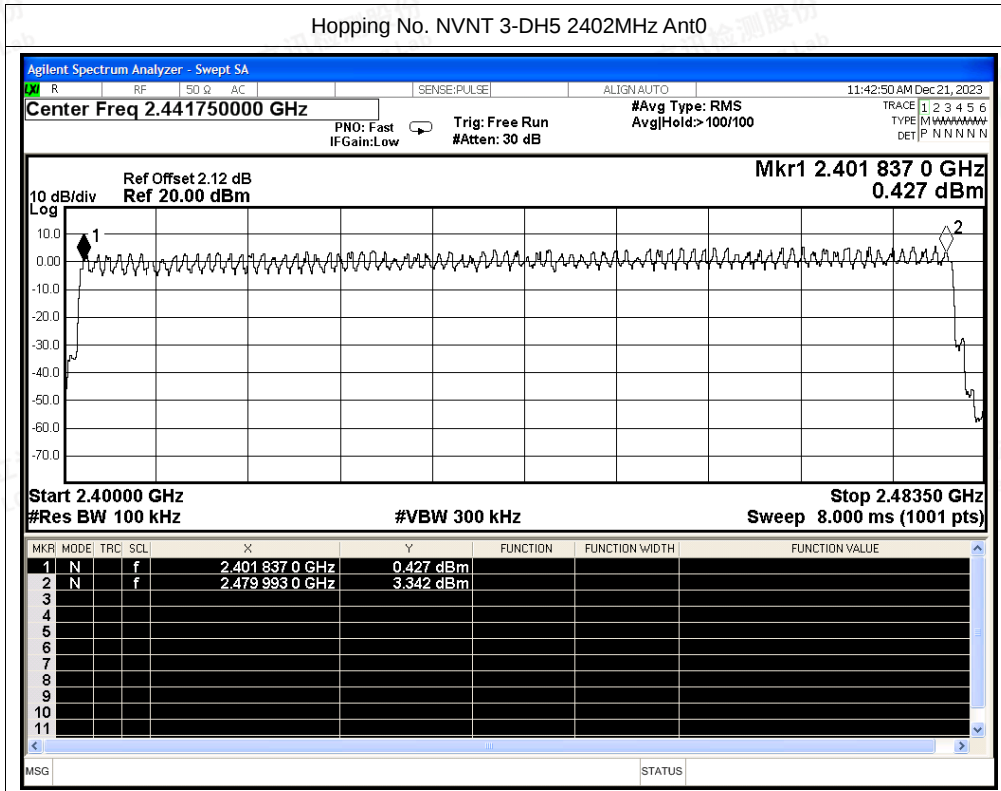
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant0



Hopping No. NVNT 2-DH5 2402MHz Ant0







A.6 Band Edge

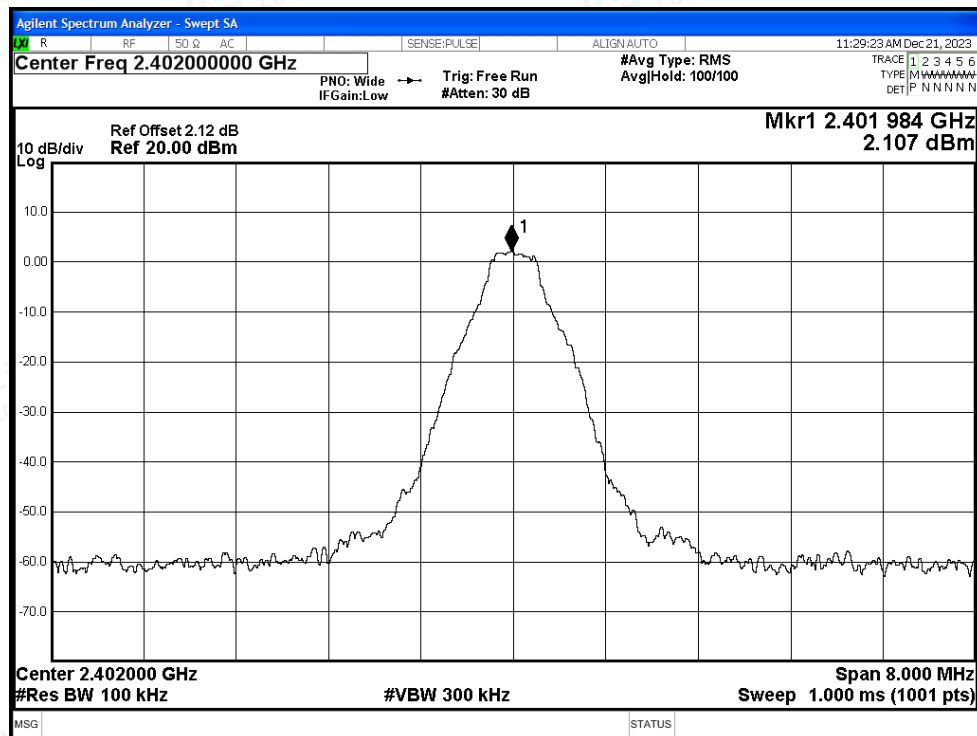
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	No-Hopping	-58.78	-20	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	-58.52	-20	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	-53	-20	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	-57.78	-20	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	-53.23	-20	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	-58.23	-20	Pass



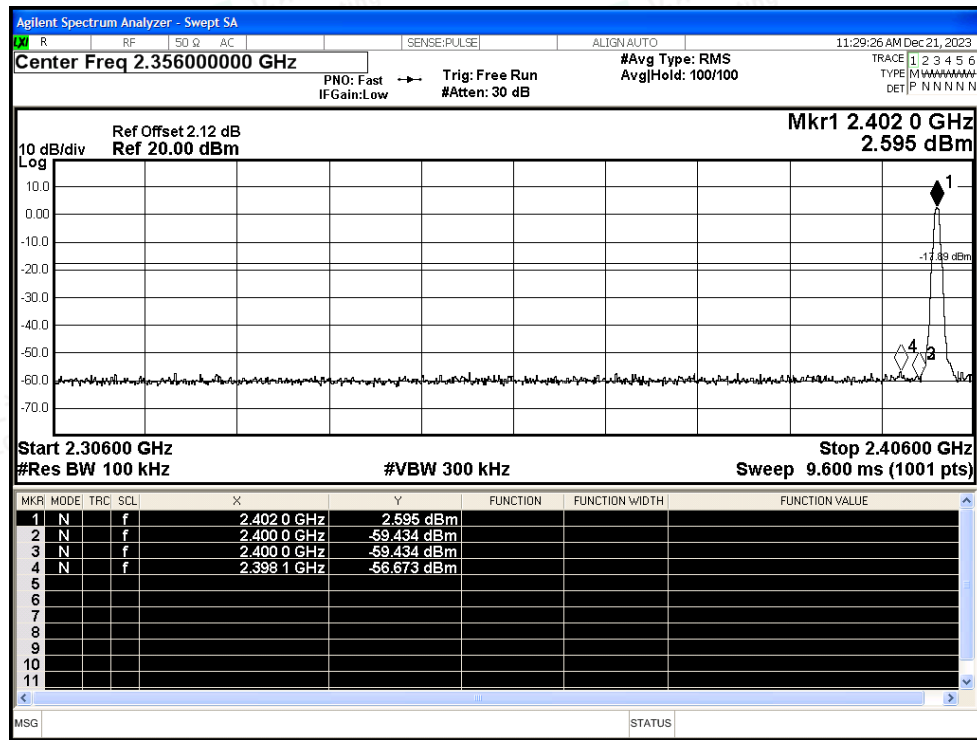


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Ref



Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Emission



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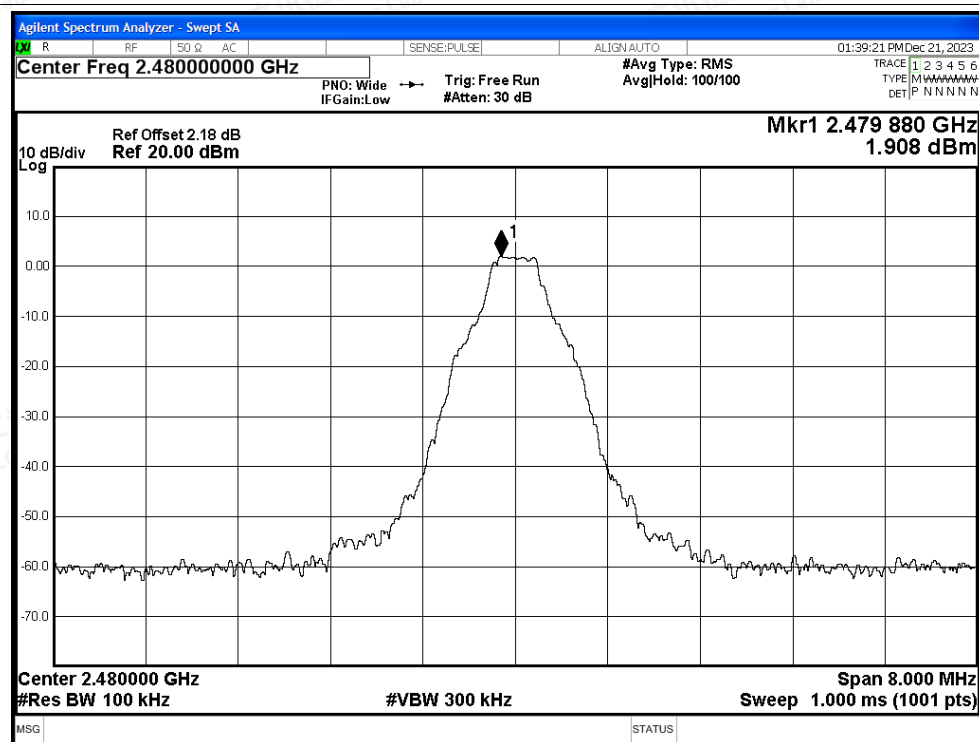
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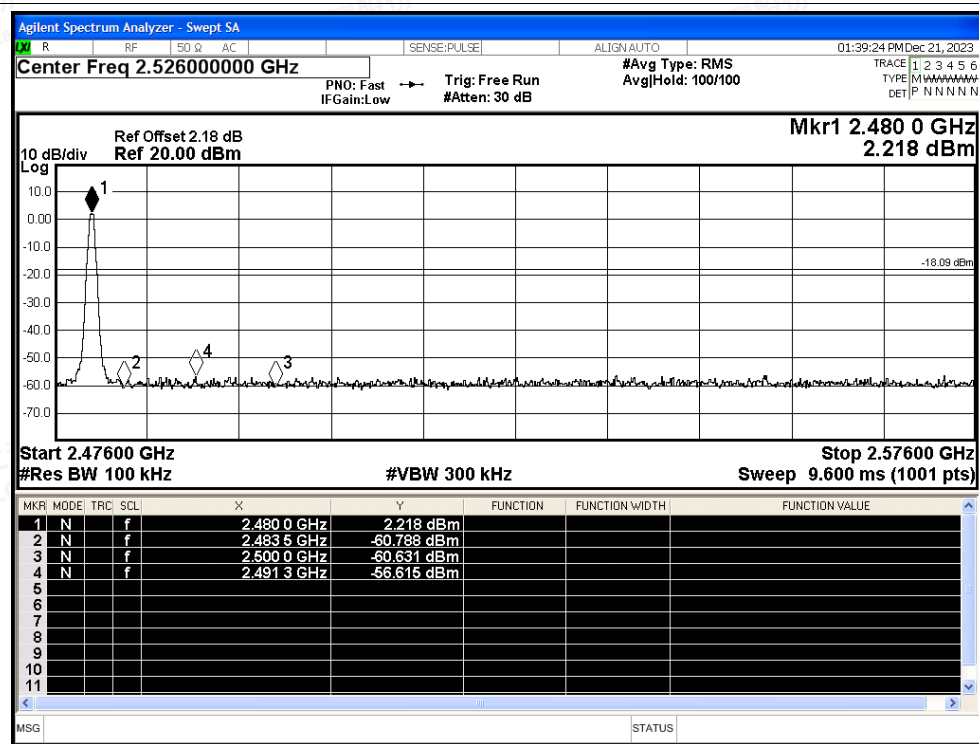
Scan code to check authenticity



Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Ref

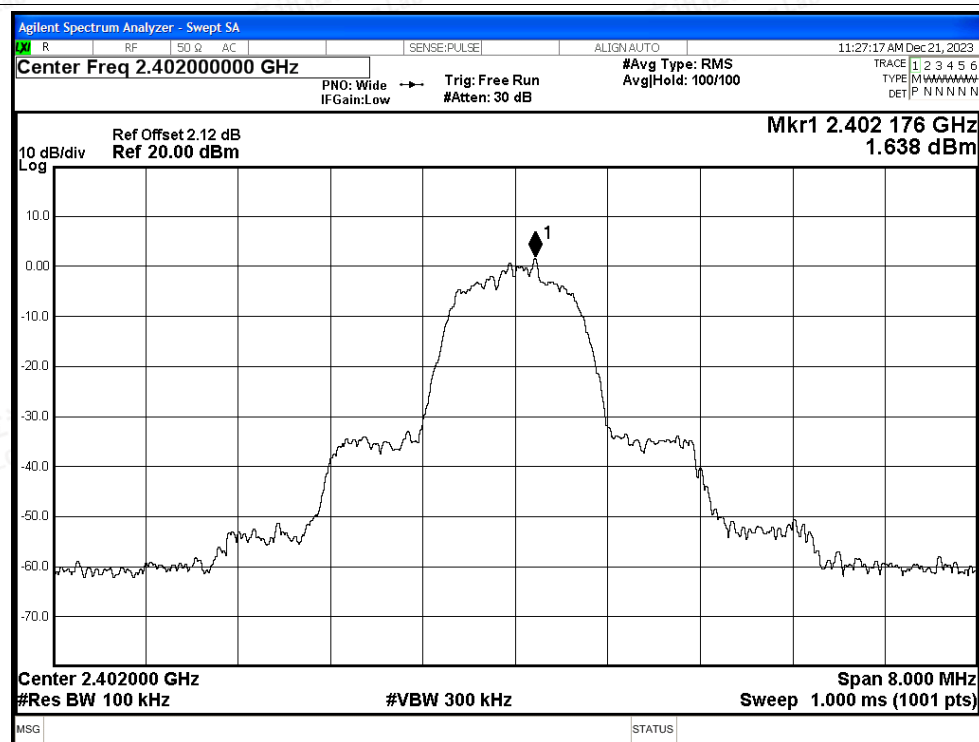


Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Emission

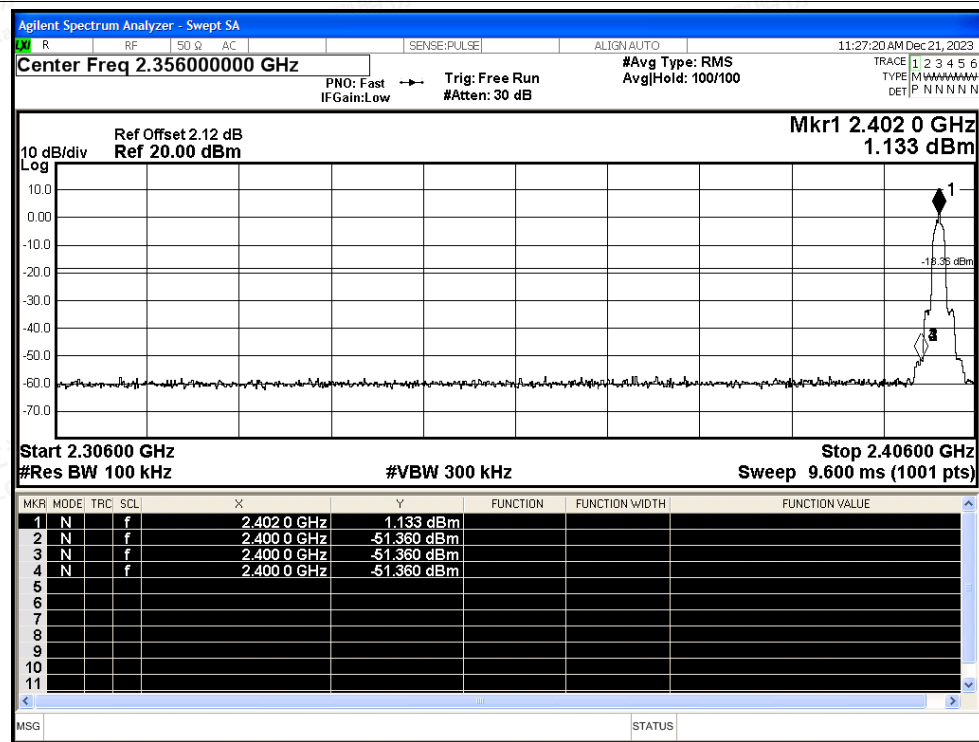




Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Ref

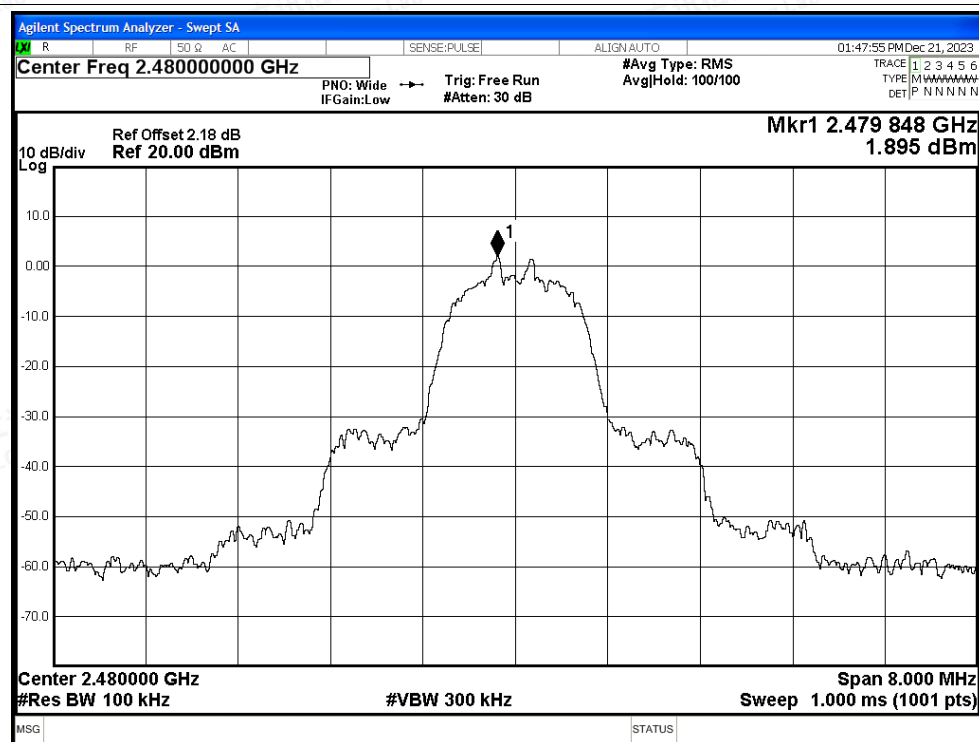


Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Emission

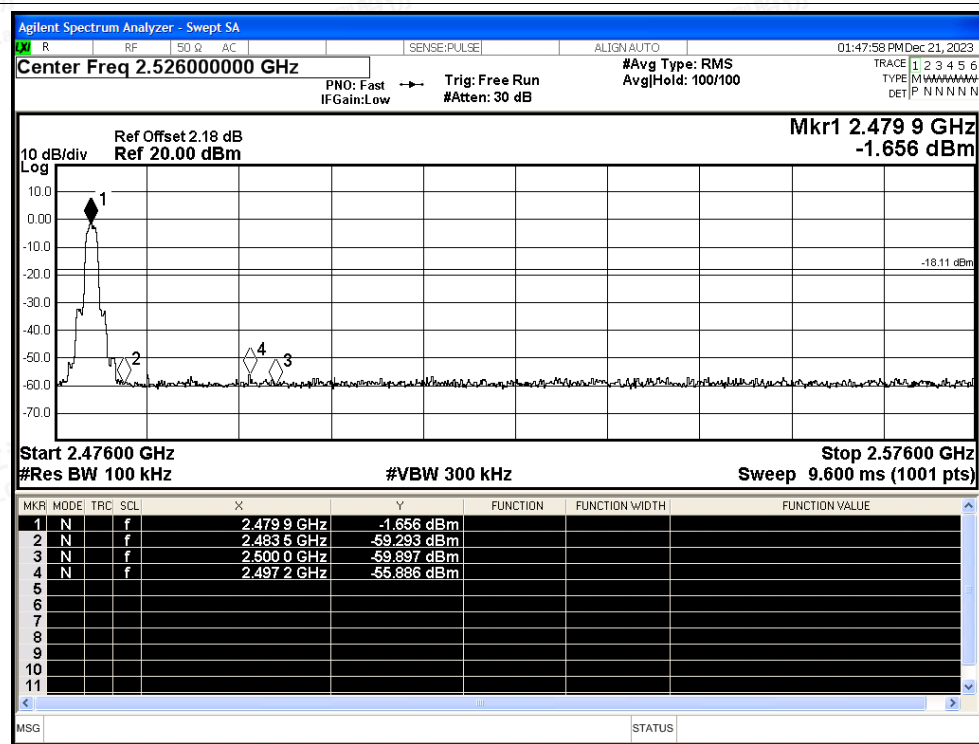




Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Ref

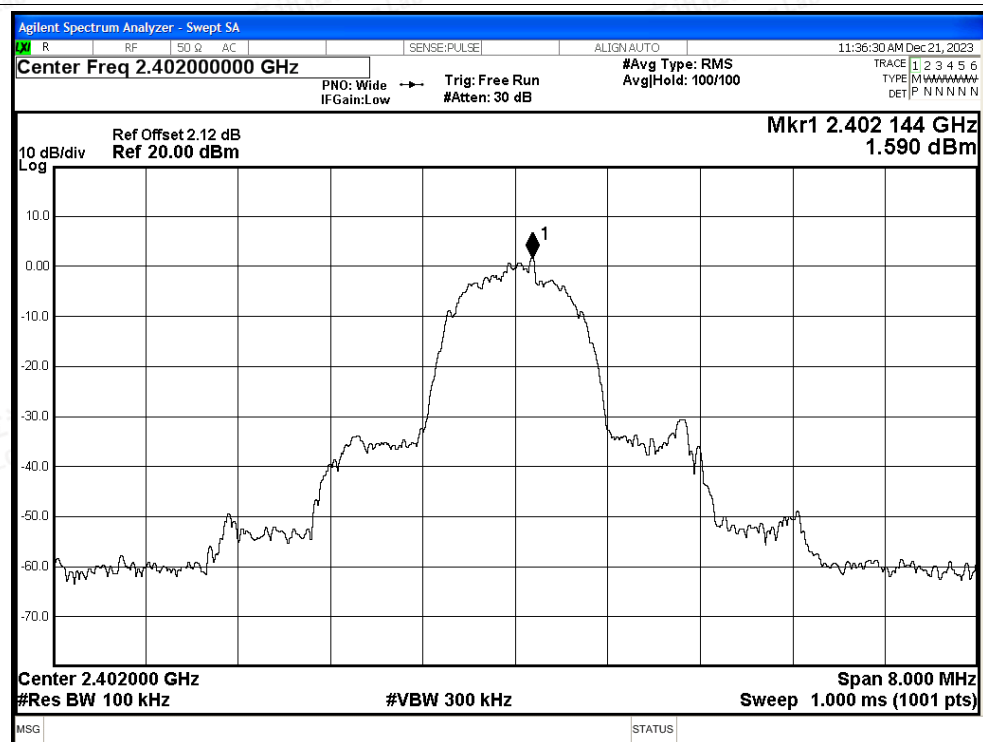


Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Emission

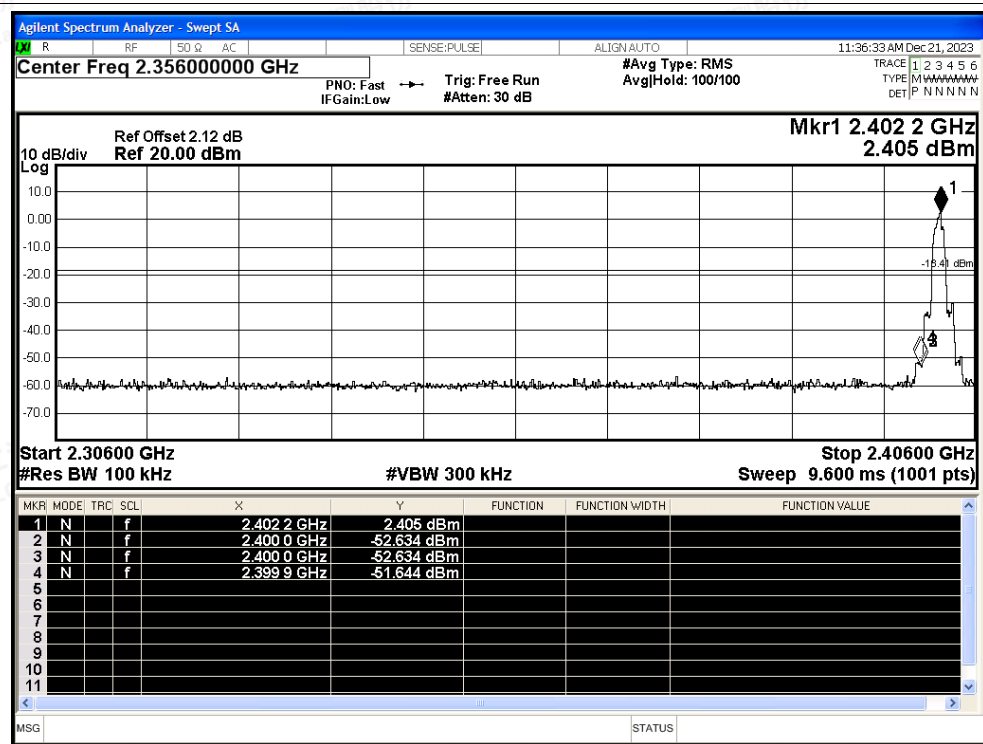




Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Ref

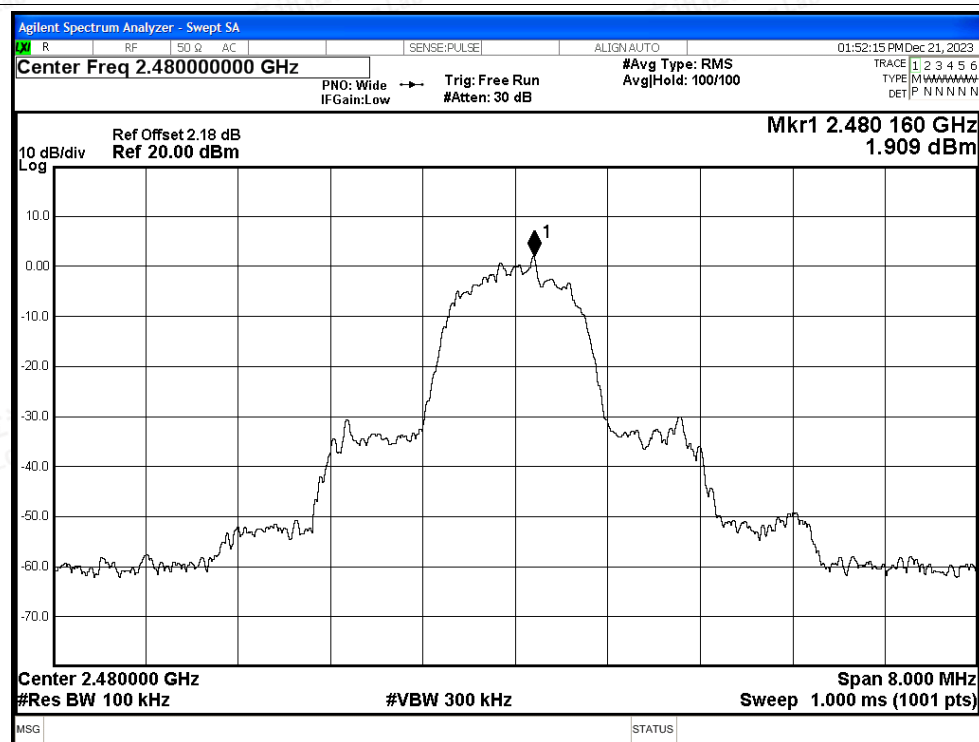


Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Emission

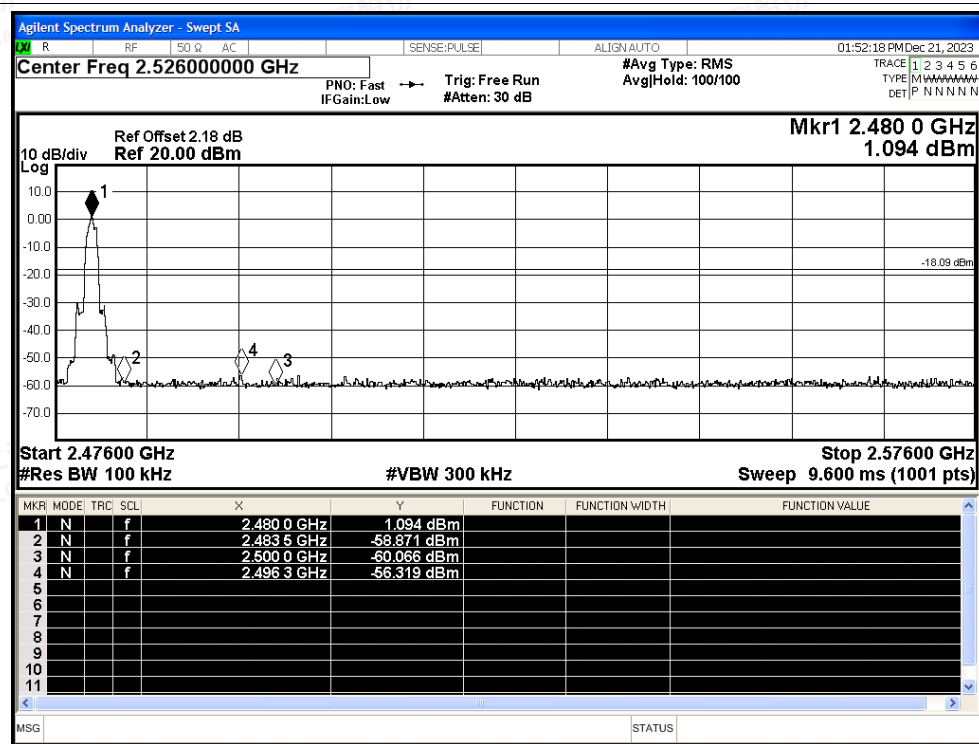




Band Edge NVNT 3-DH5 2480MHz Ant0 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant0 No-Hopping Emission





Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	Hopping	-57.67	-20	Pass
NVNT	1-DH5	2480	Ant0	Hopping	-57.98	-20	Pass
NVNT	2-DH5	2402	Ant0	Hopping	-57.2	-20	Pass
NVNT	2-DH5	2480	Ant0	Hopping	-57.77	-20	Pass
NVNT	3-DH5	2402	Ant0	Hopping	-55.47	-20	Pass
NVNT	3-DH5	2480	Ant0	Hopping	-58.29	-20	Pass

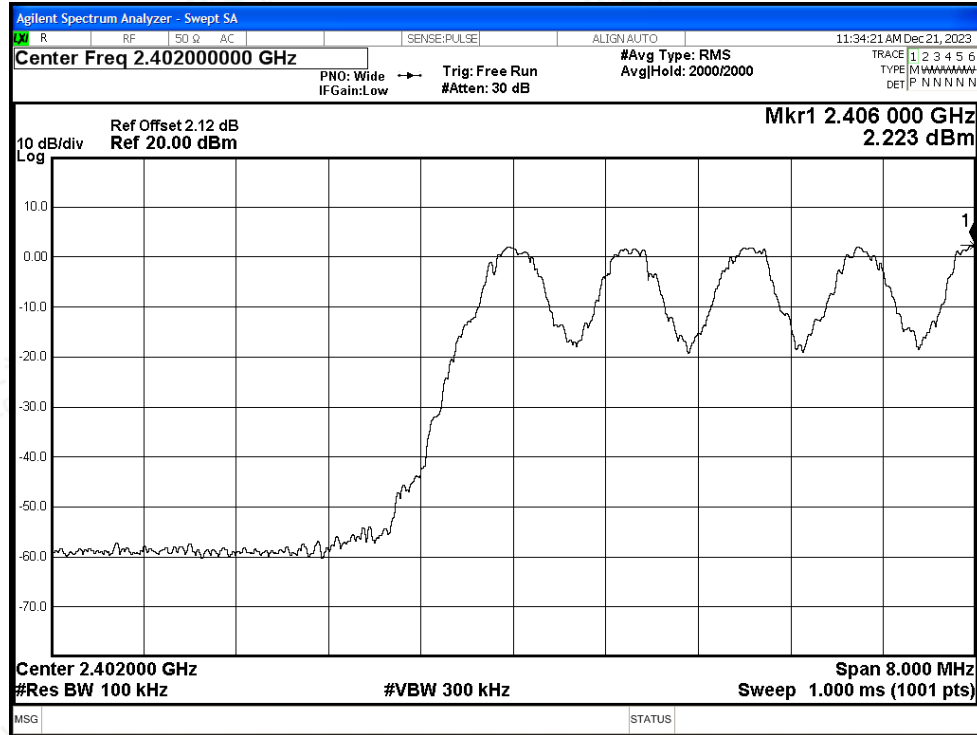


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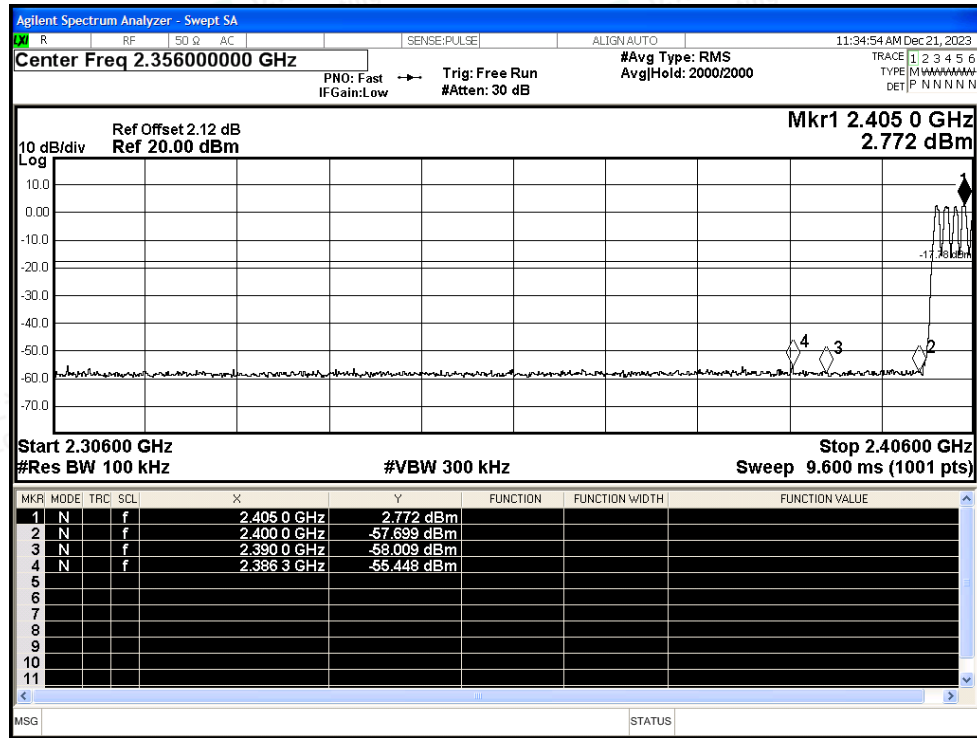


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Ref

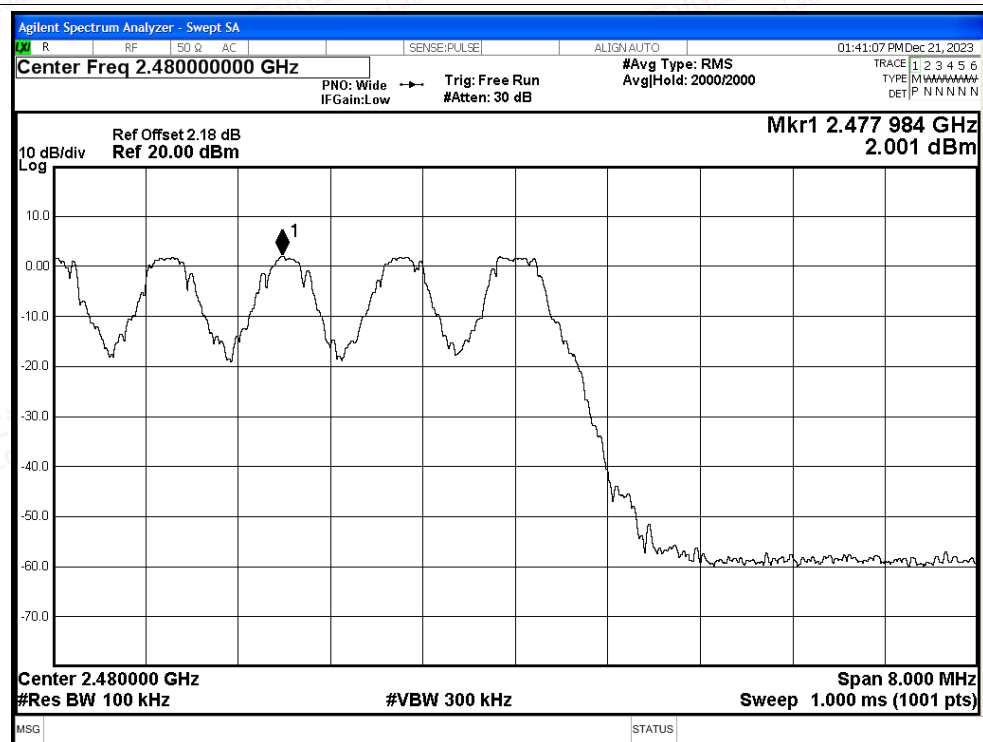


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Emission

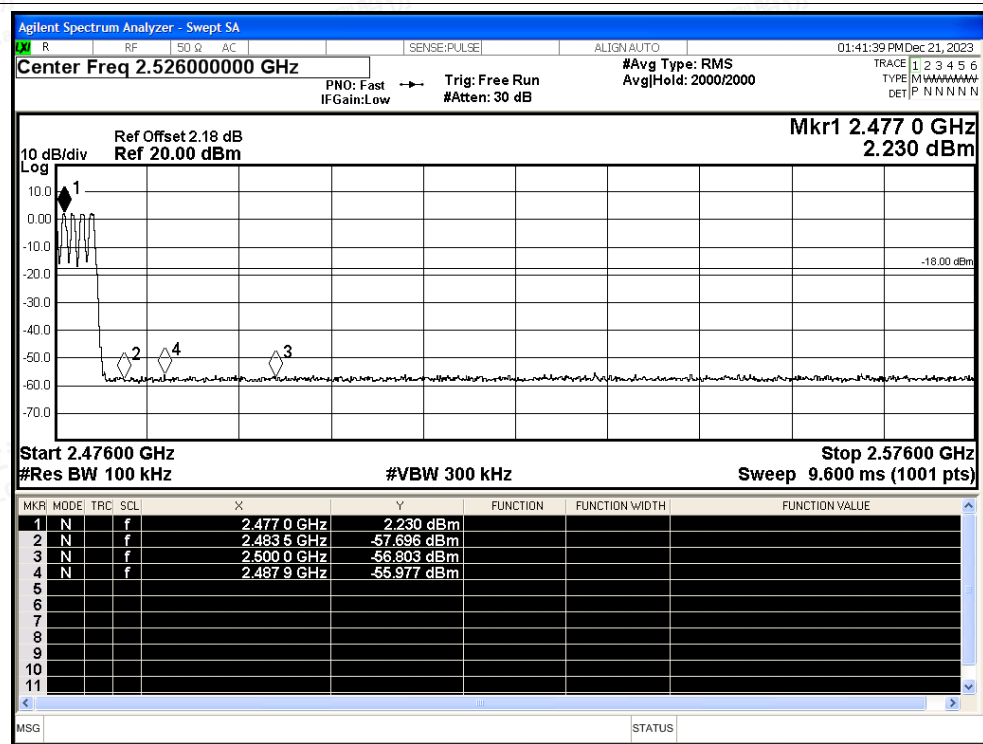




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant0 Hopping Ref

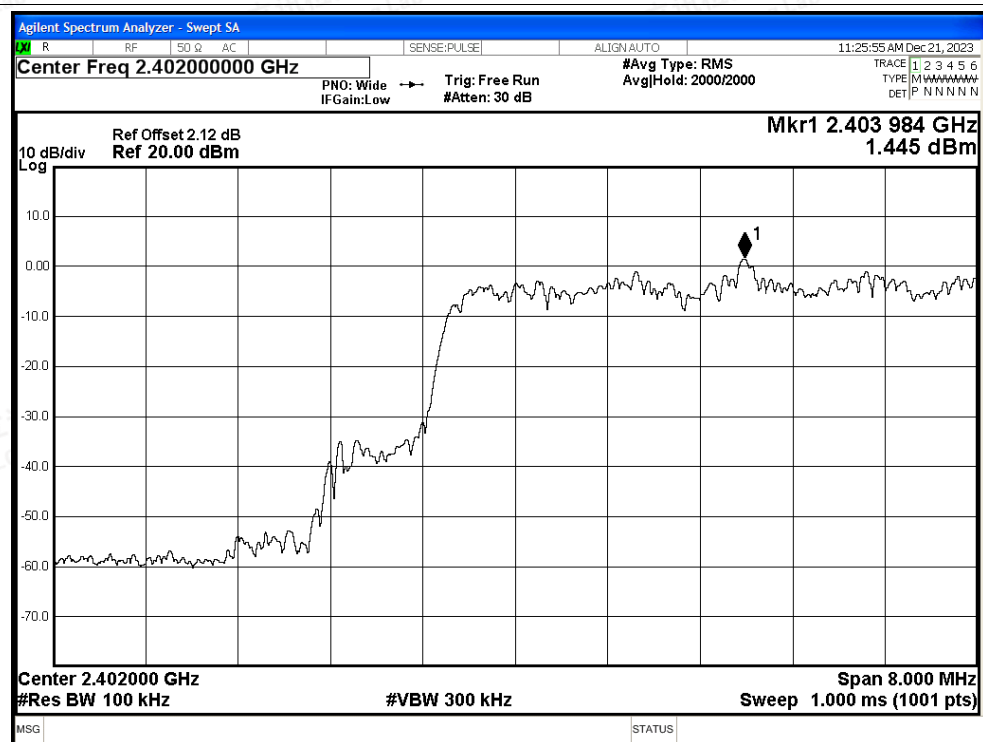


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant0 Hopping Emission

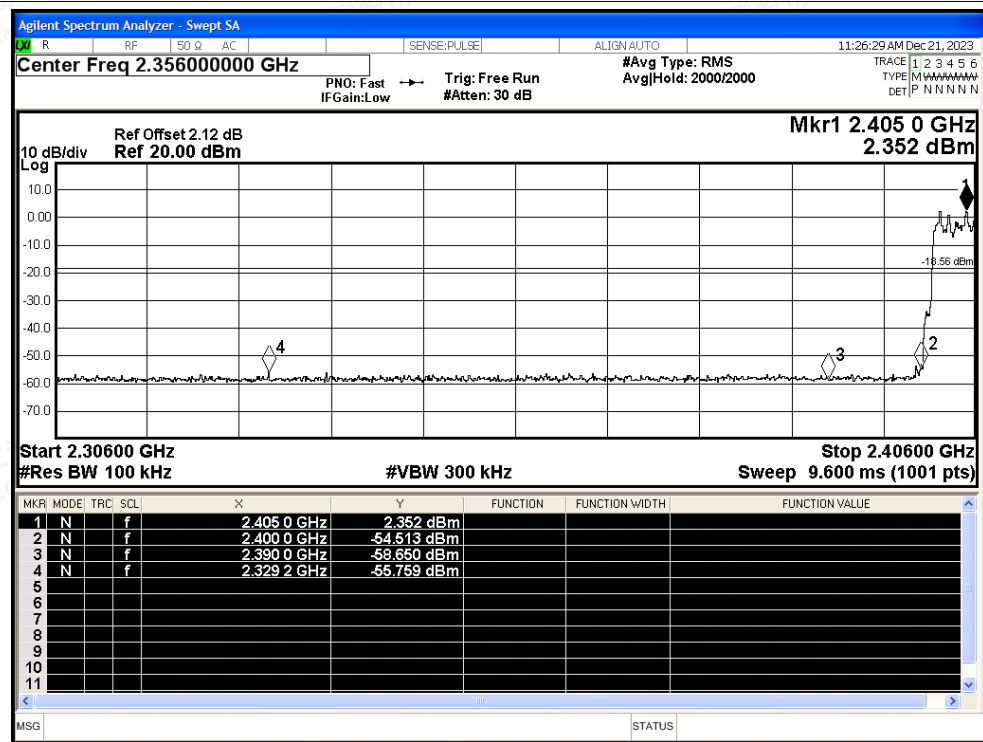




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Ref

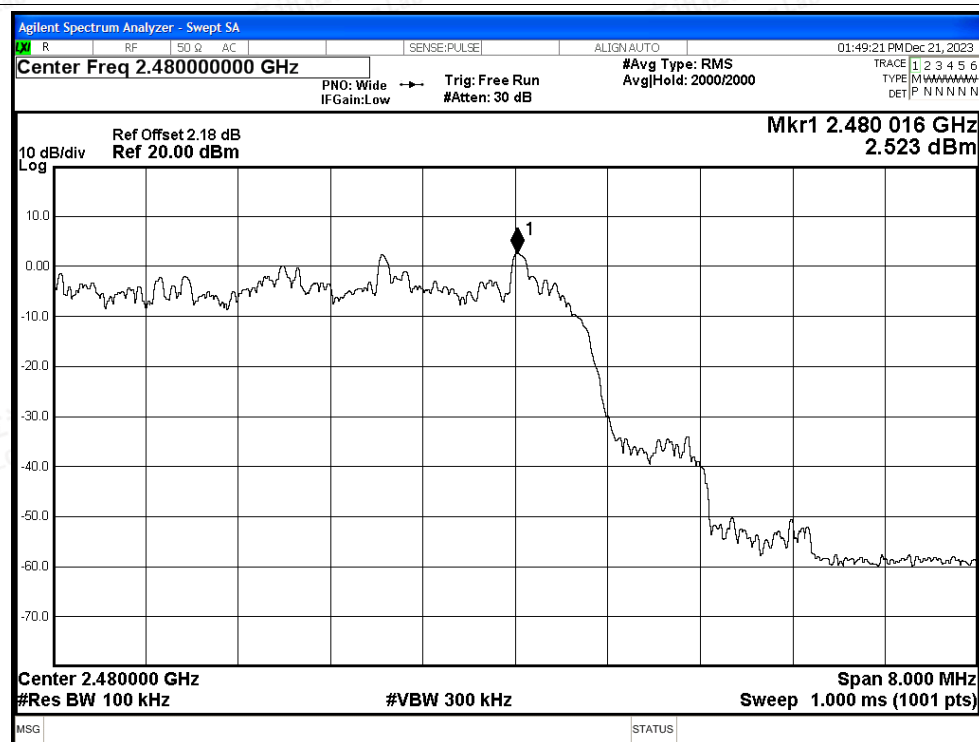


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Emission

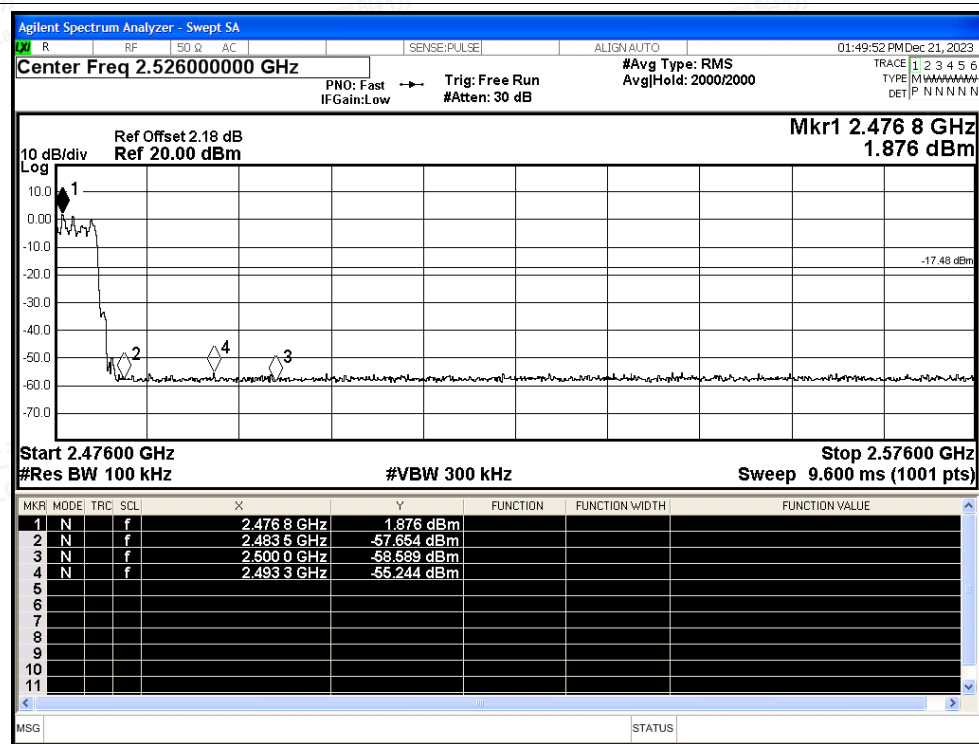




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant0 Hopping Ref

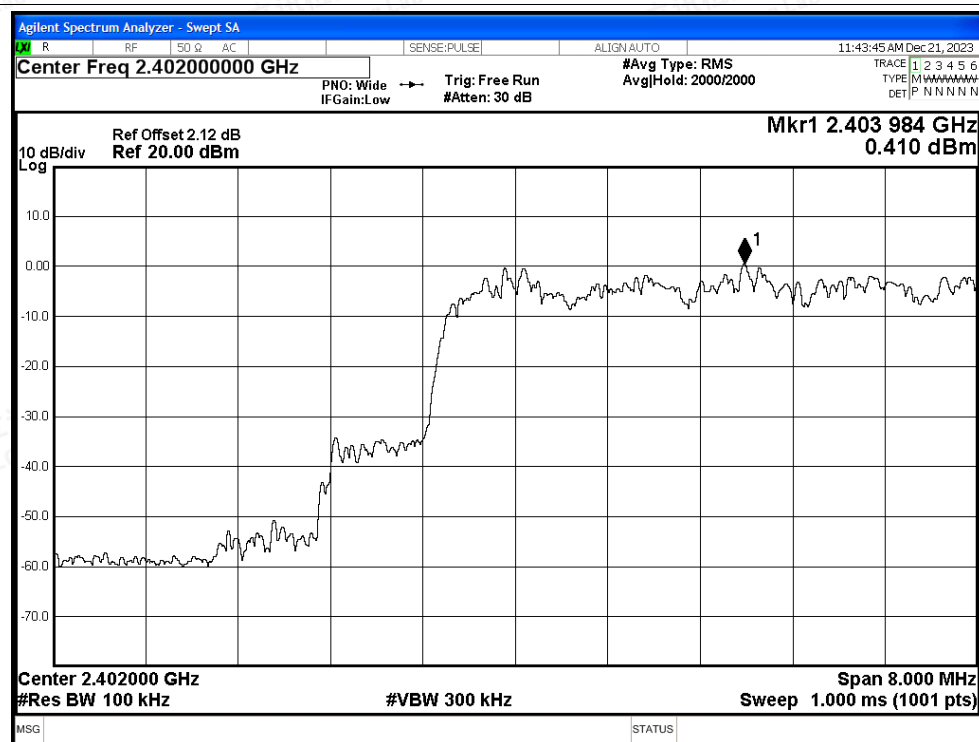


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant0 Hopping Emission

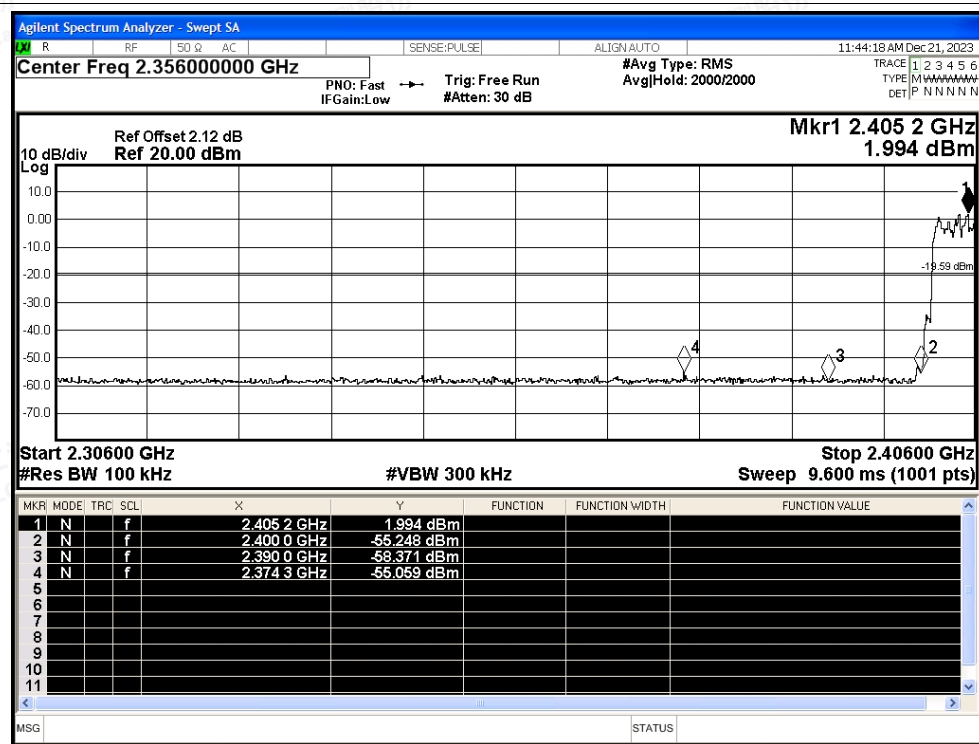




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Emission

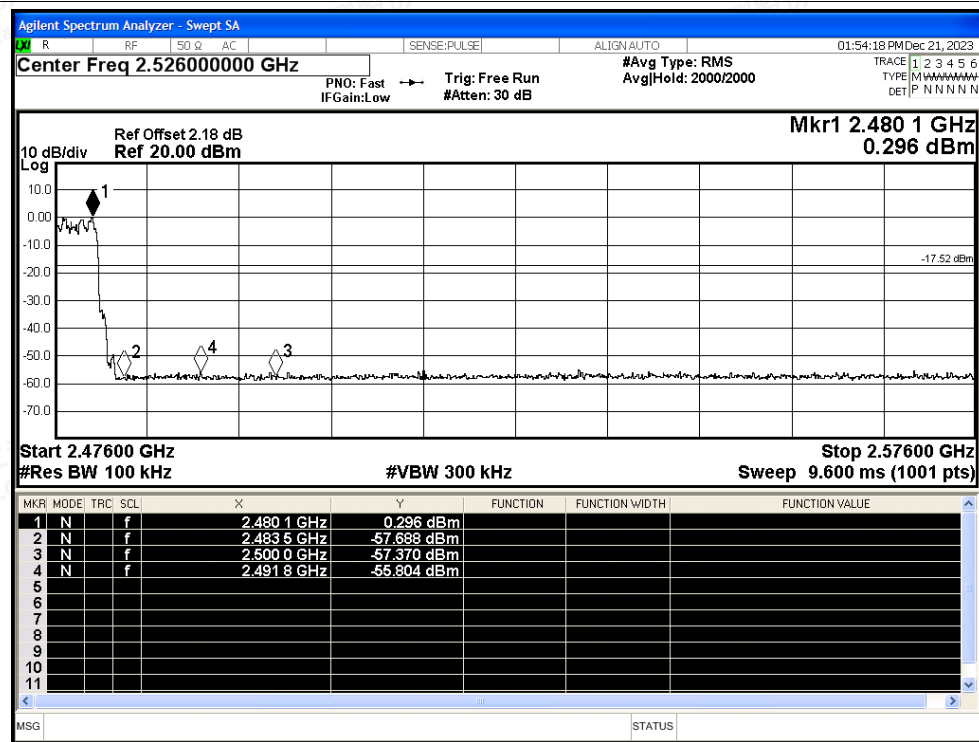




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant0 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant0 Hopping Emission





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	-57.48	-20	Pass
NVNT	1-DH5	2441	Ant0	-58.19	-20	Pass
NVNT	1-DH5	2480	Ant0	-57.98	-20	Pass
NVNT	2-DH5	2402	Ant0	-58	-20	Pass
NVNT	2-DH5	2441	Ant0	-57.8	-20	Pass
NVNT	2-DH5	2480	Ant0	-57.12	-20	Pass
NVNT	3-DH5	2402	Ant0	-57.94	-20	Pass
NVNT	3-DH5	2441	Ant0	-53.35	-20	Pass
NVNT	3-DH5	2480	Ant0	-57.11	-20	Pass

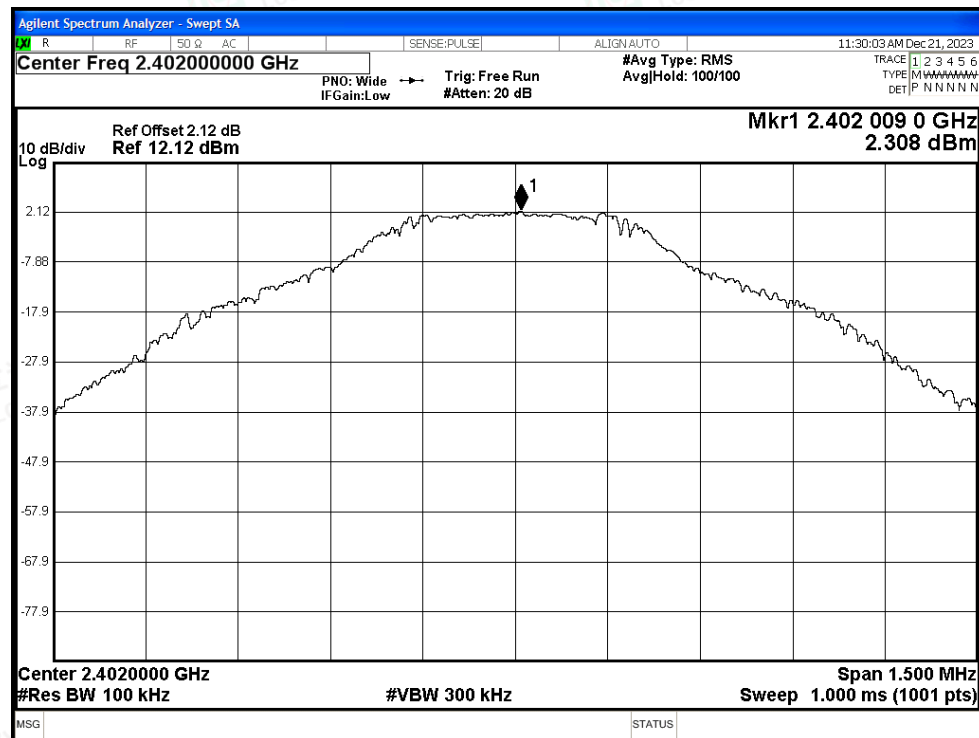


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Scan code to check authenticity

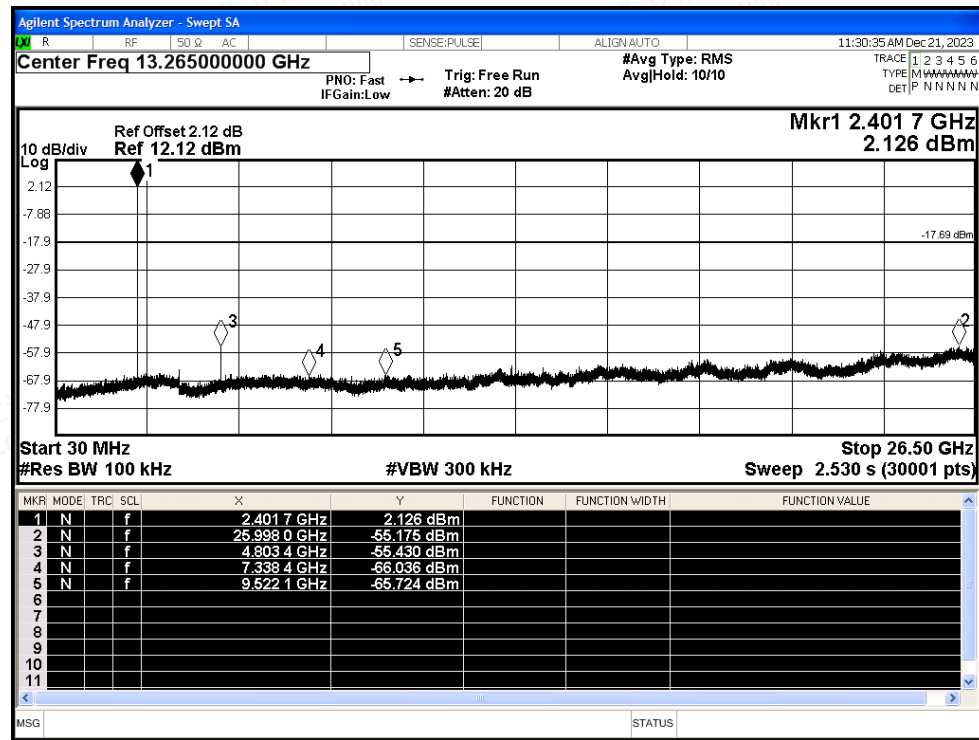


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Ref

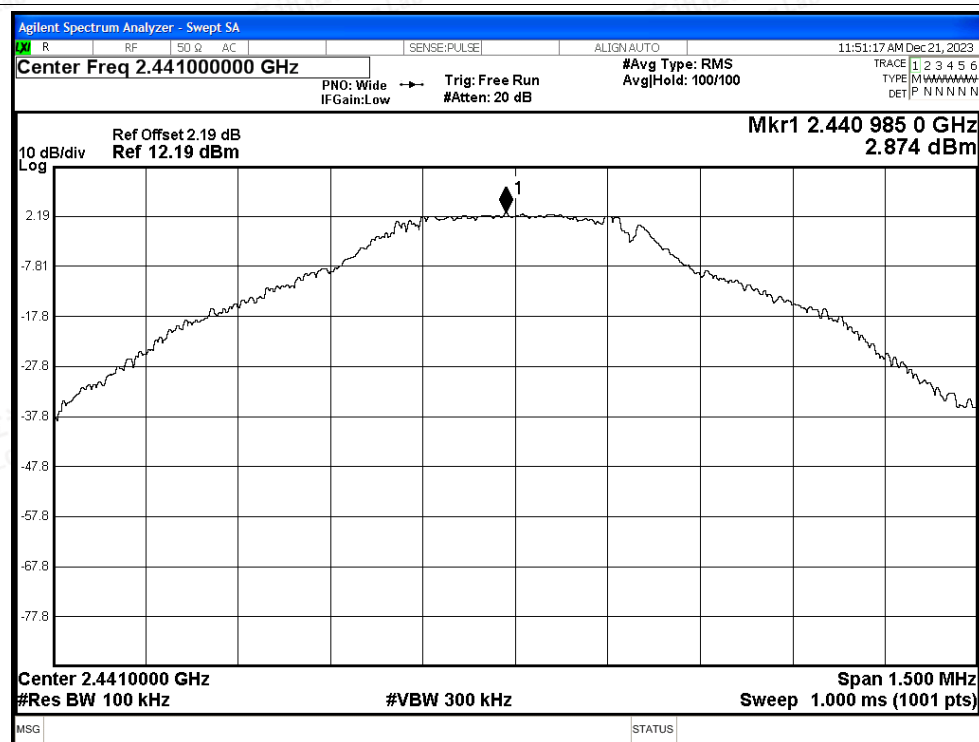


Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Emission

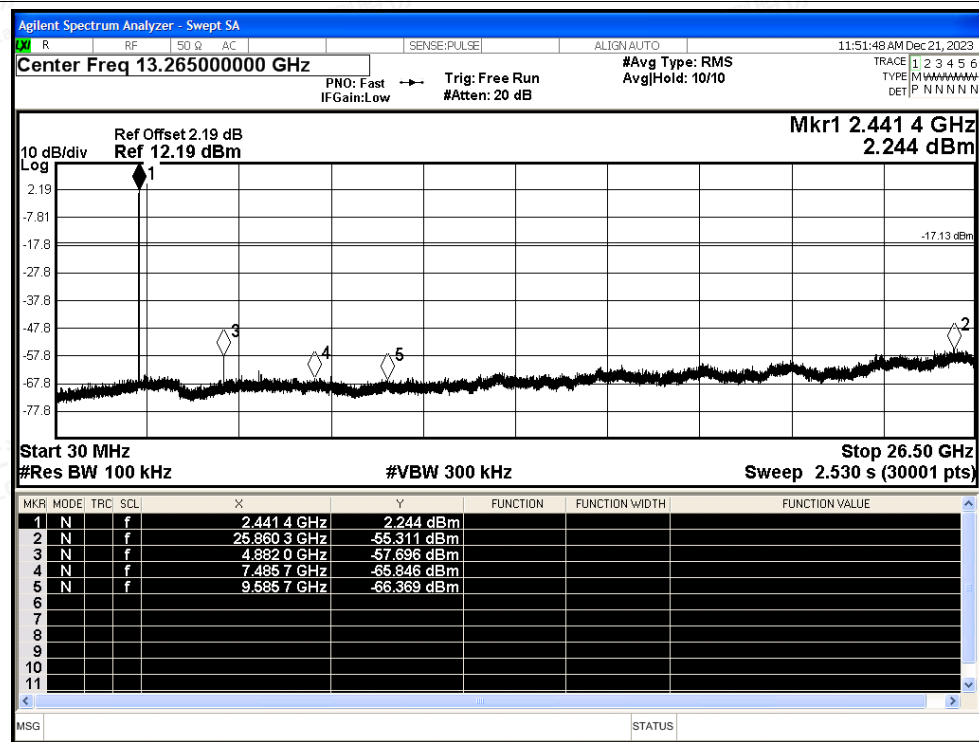




Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Ref

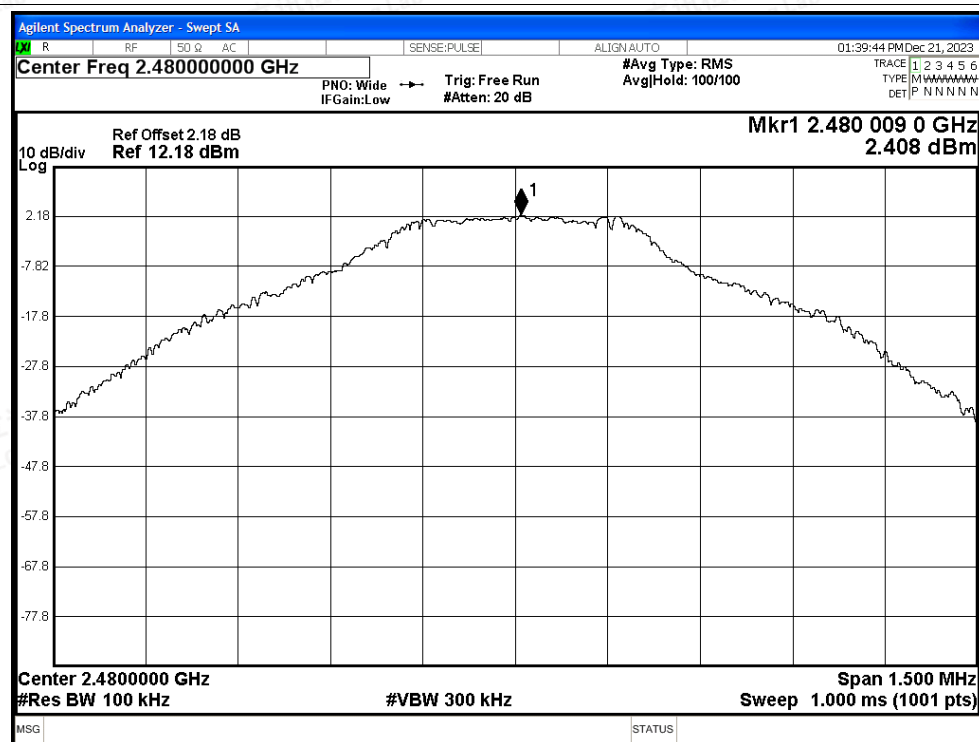


Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Emission

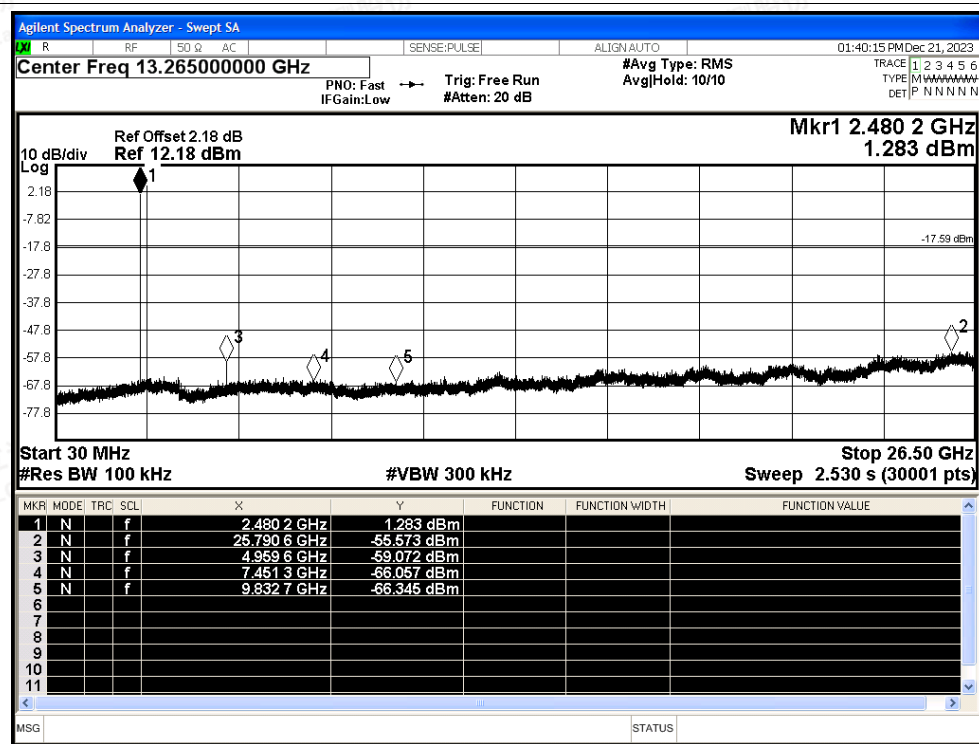




Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Ref

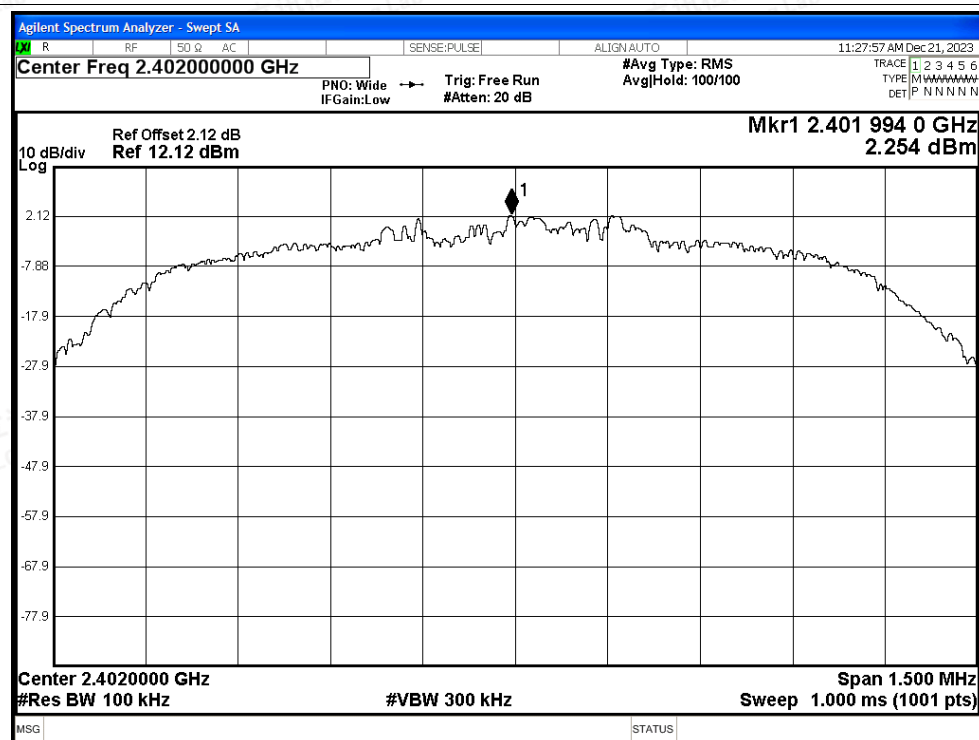


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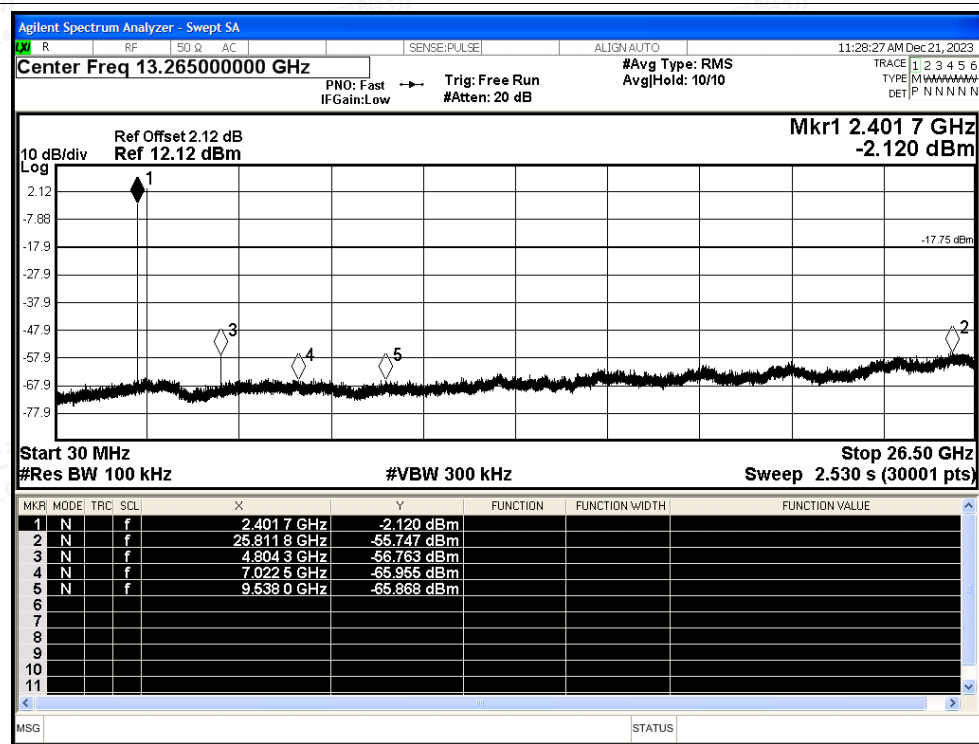




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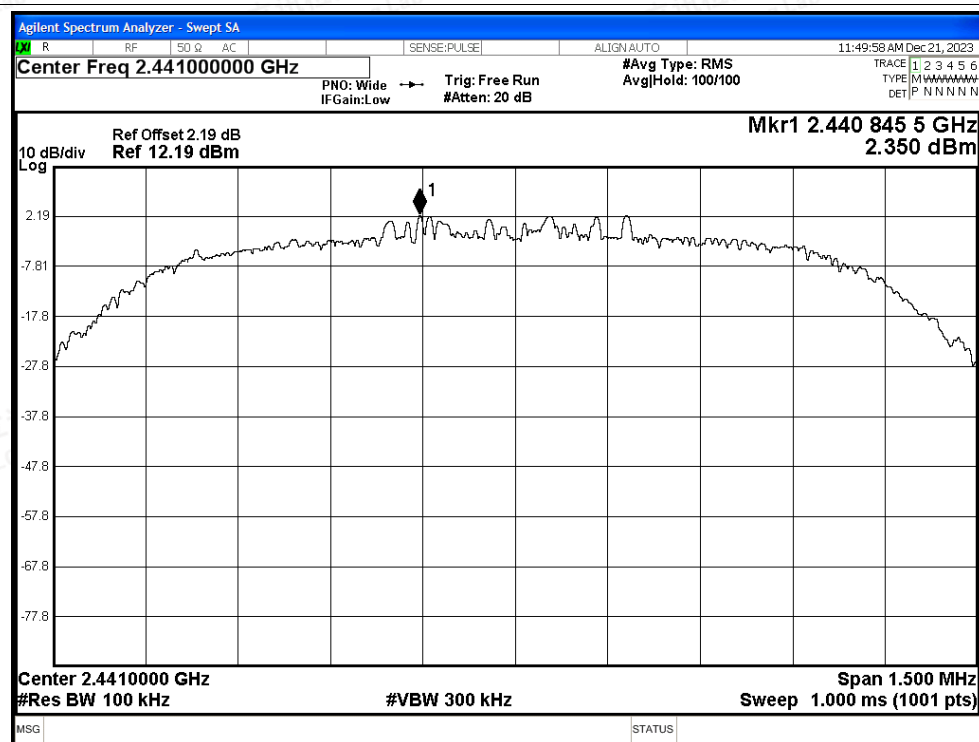


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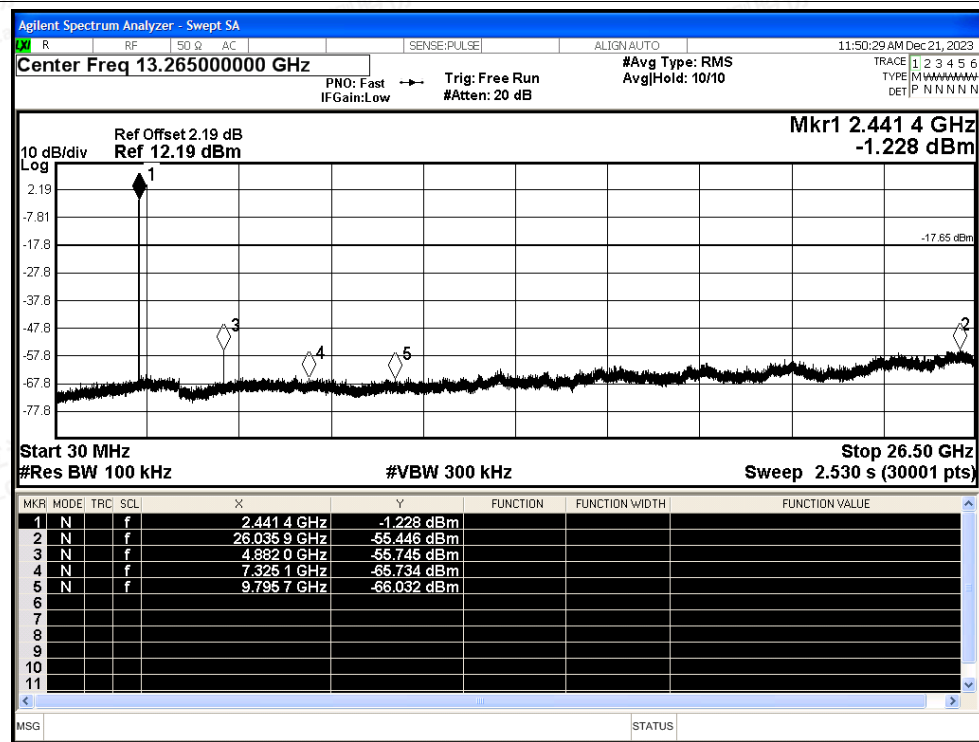




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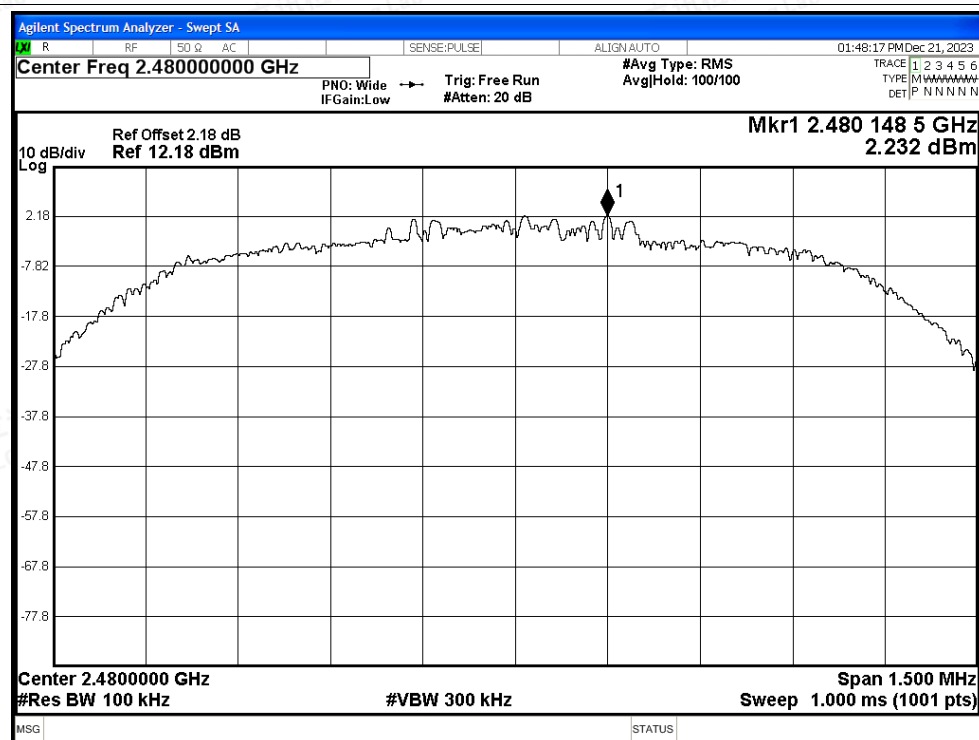


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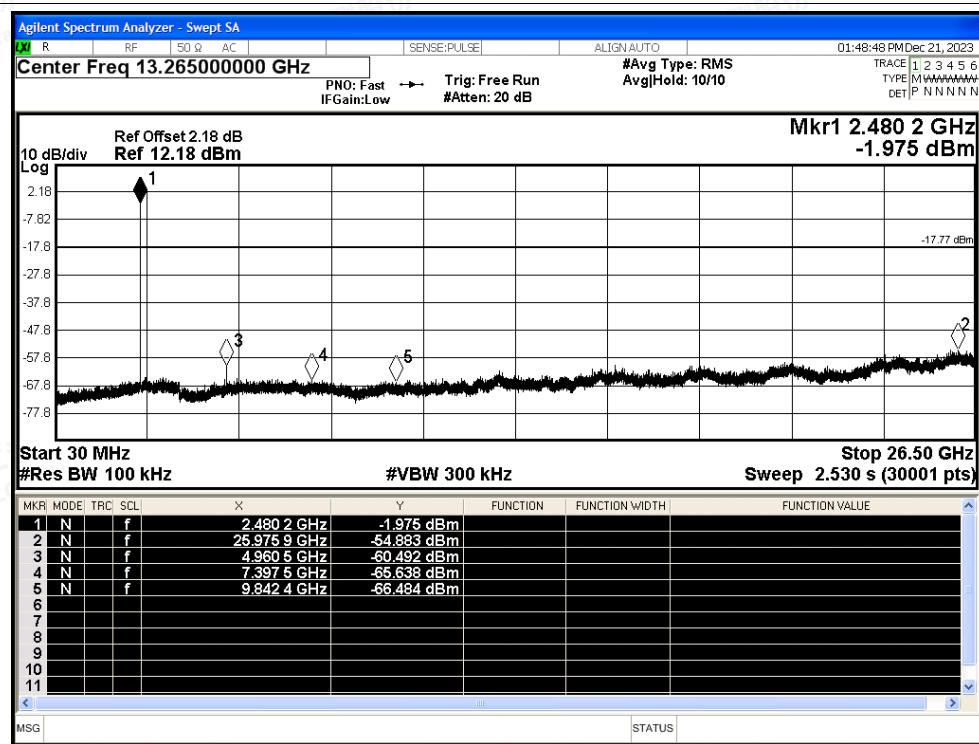




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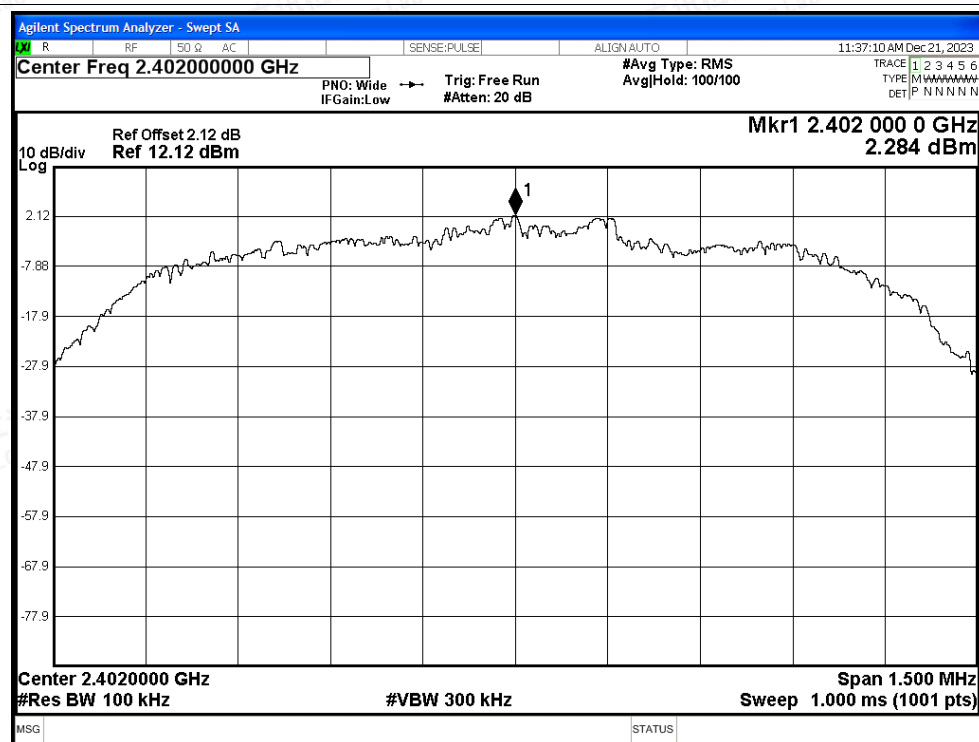


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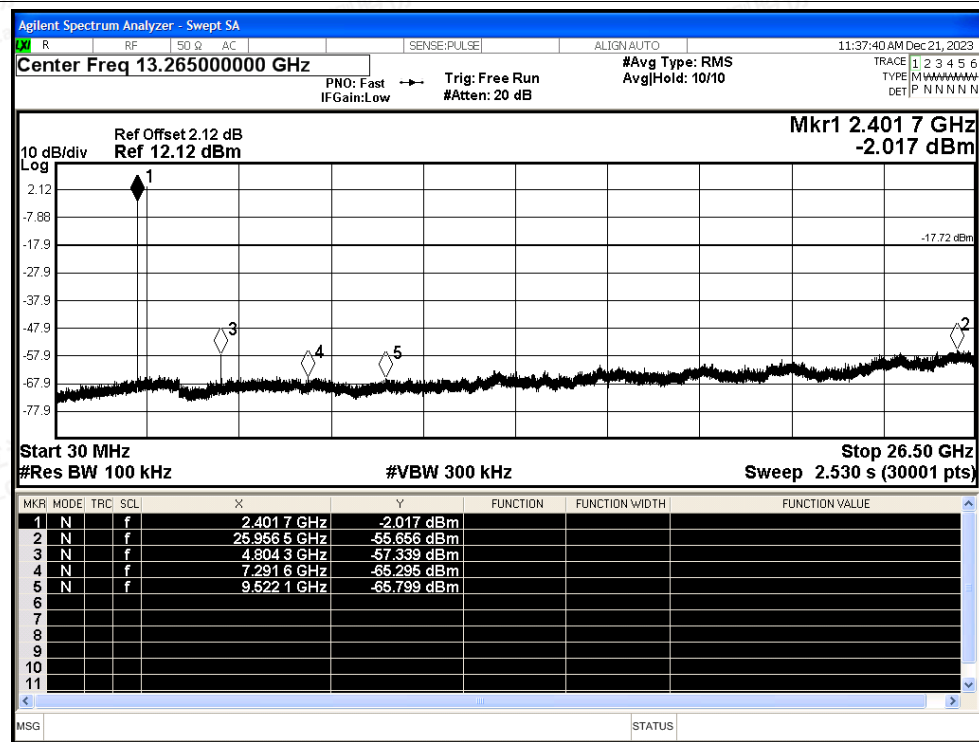




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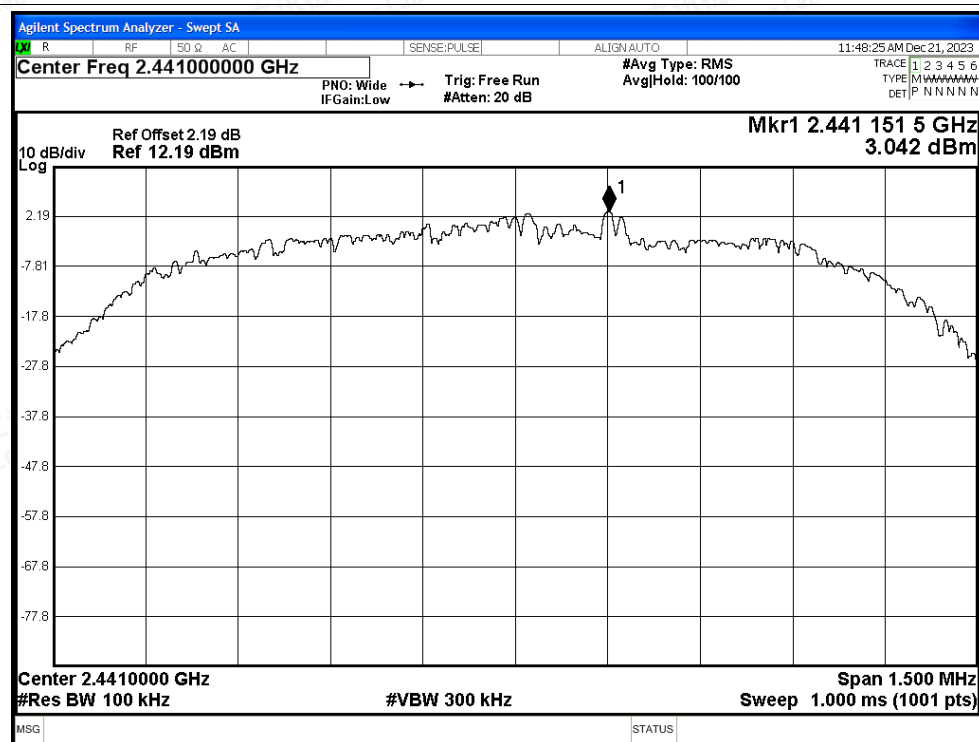


Tx. Spurious NVNT 3-DH5 2402MHz Ant0 Emission

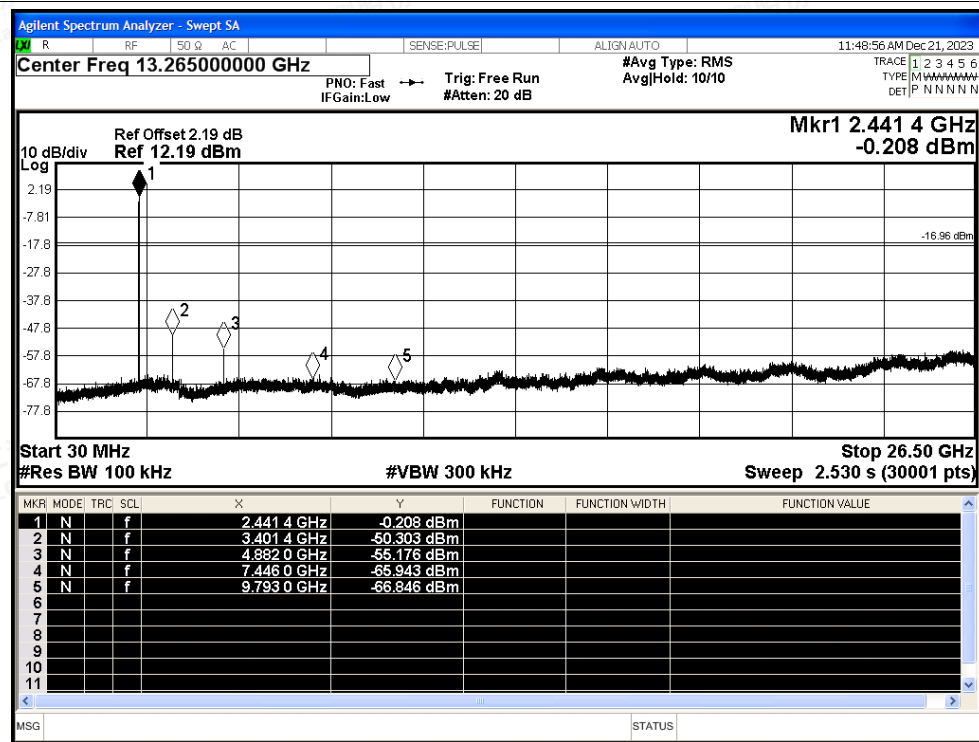




Tx. Spurious NVNT 3-DH5 2441MHz Ant0 Ref

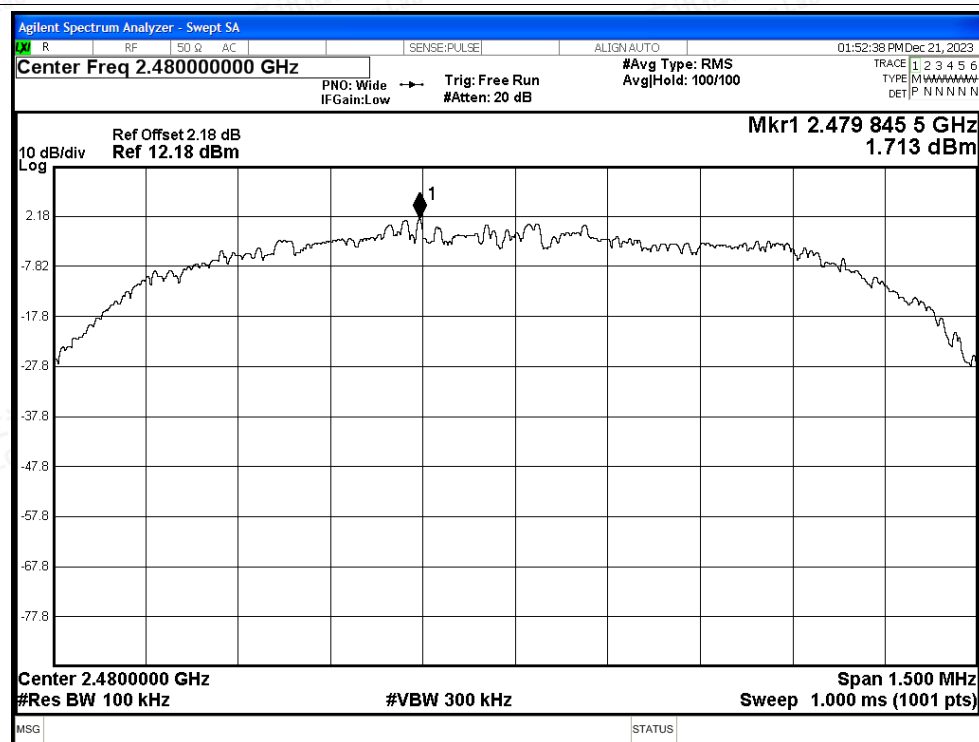


Tx. Spurious NVNT 3-DH5 2441MHz Ant0 Emission

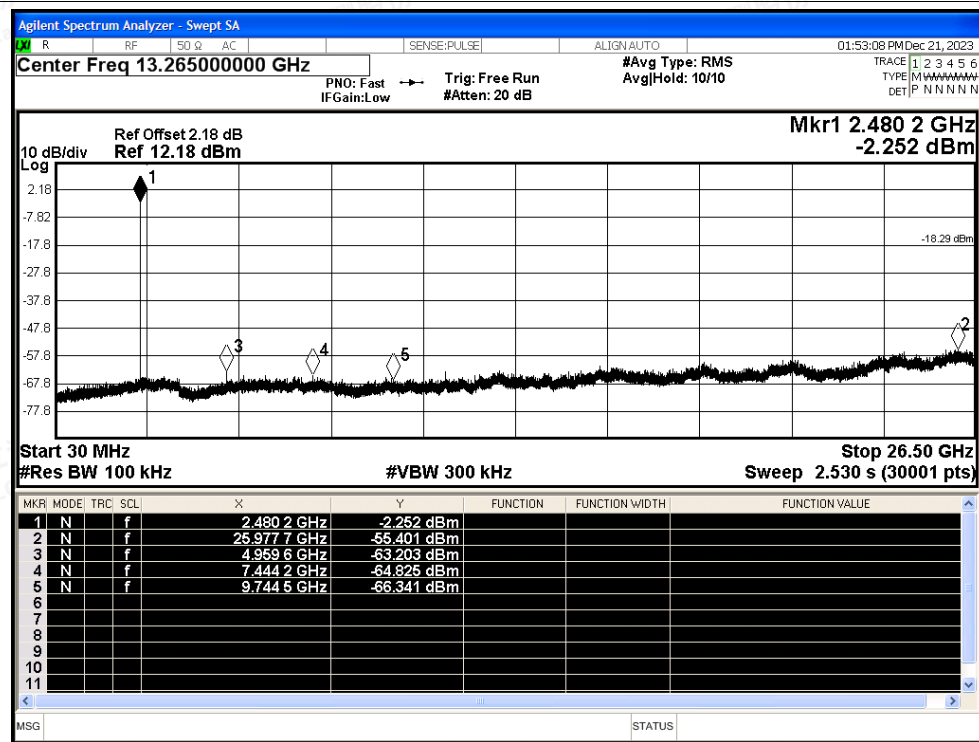




Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Emission





A.8 Duty Cycle

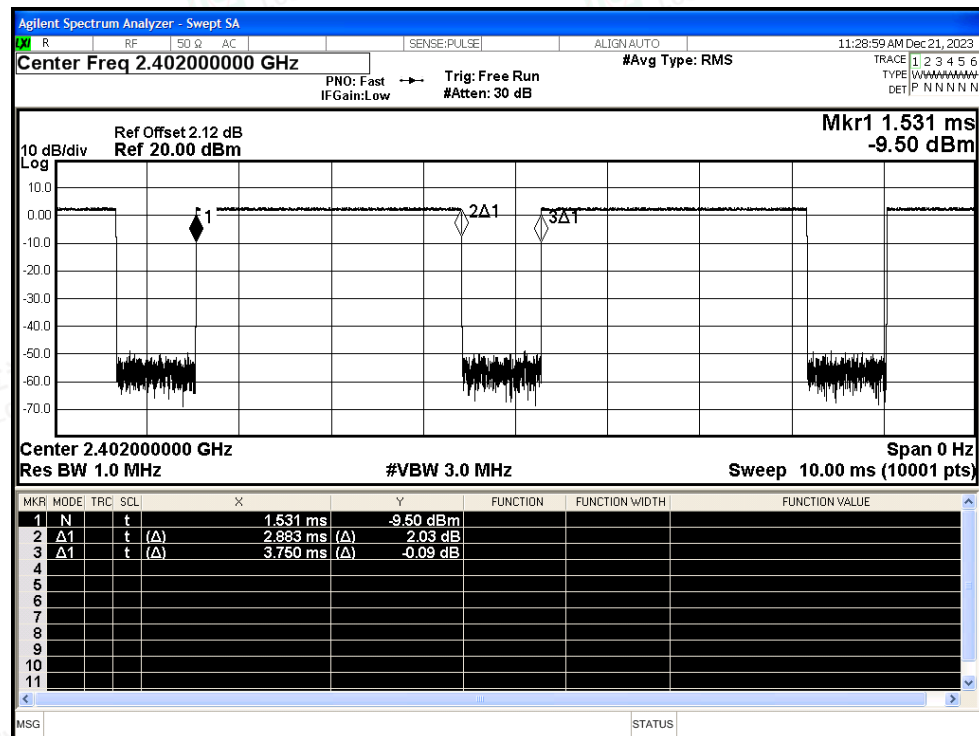
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant0	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant0	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant0	76.91	1.14	0.35
NVNT	2-DH5	2402	Ant0	76.96	1.14	0.35
NVNT	2-DH5	2441	Ant0	76.96	1.14	0.35
NVNT	2-DH5	2480	Ant0	76.99	1.14	0.35
NVNT	3-DH5	2402	Ant0	77.04	1.13	0.35
NVNT	3-DH5	2441	Ant0	77.04	1.13	0.35
NVNT	3-DH5	2480	Ant0	77.01	1.13	0.35



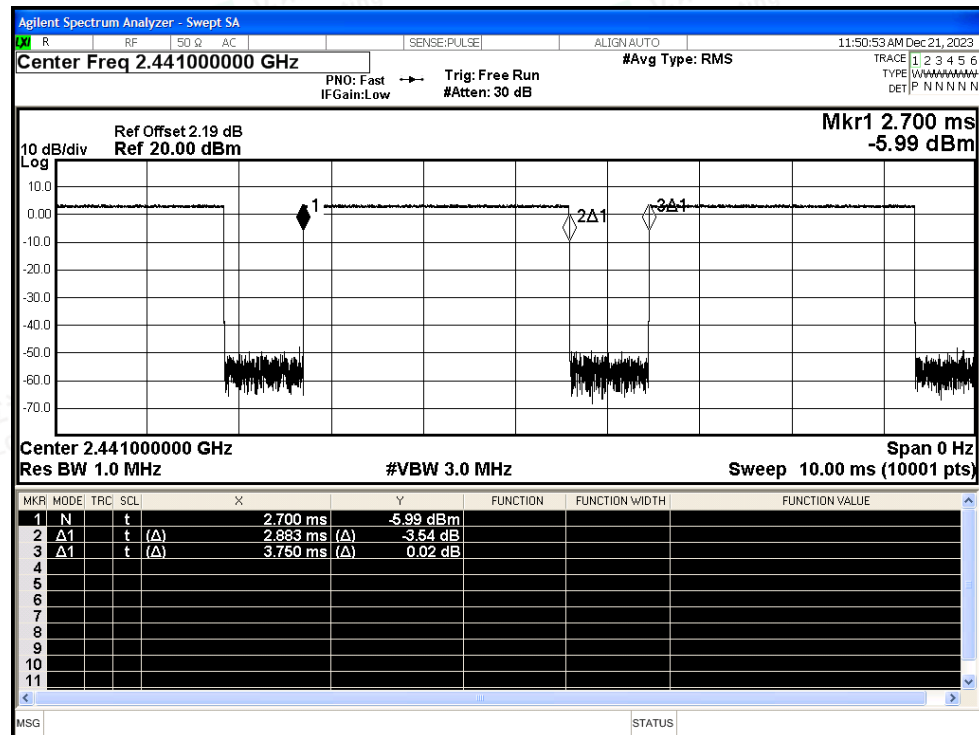


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant0



Duty Cycle NVNT 1-DH5 2441MHz Ant0



Shenzhen LCS Compliance Testing Laboratory Ltd.

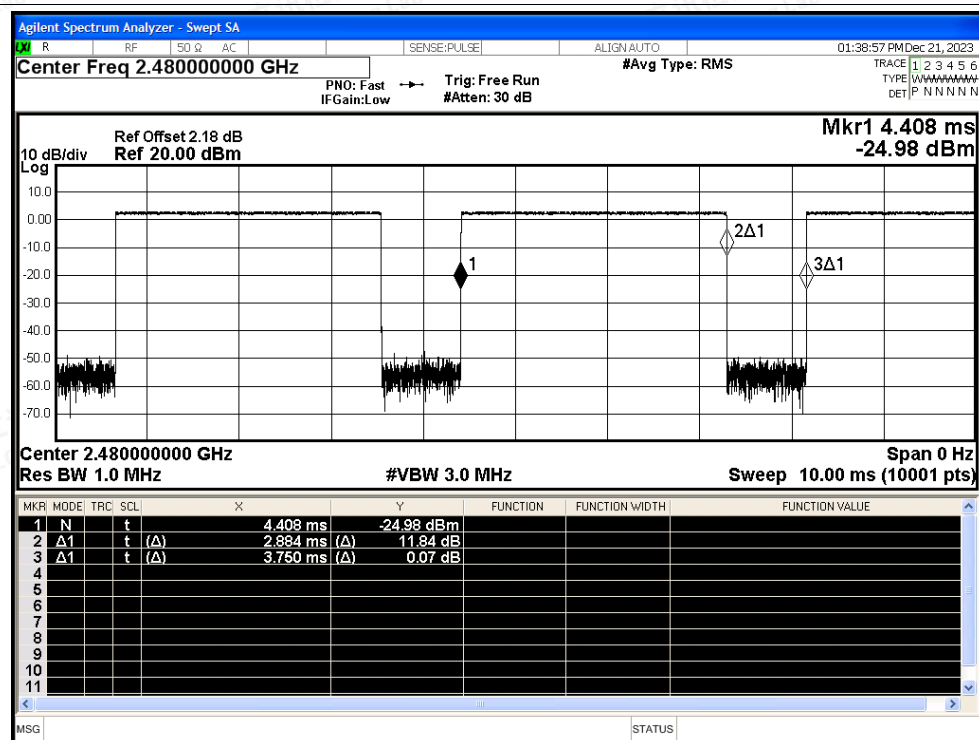
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

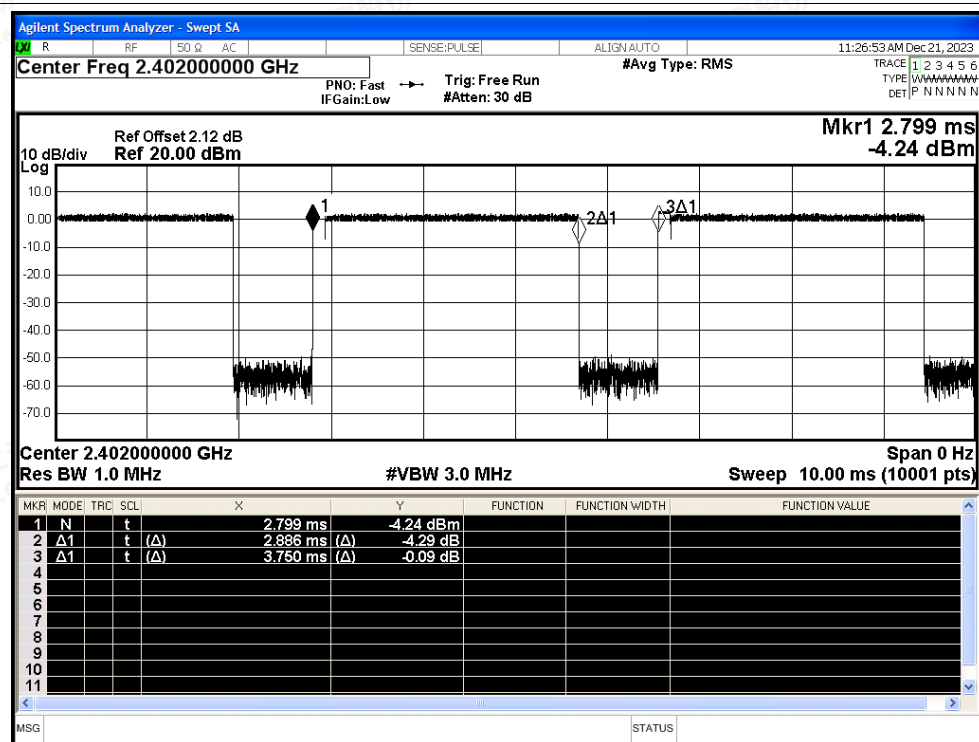
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant0

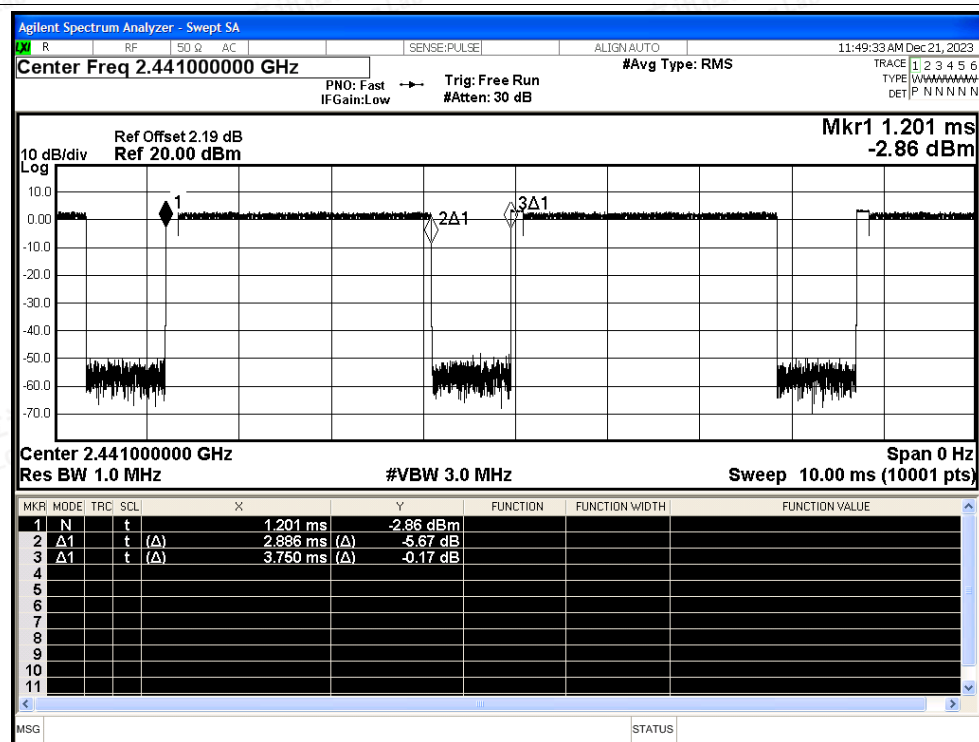


Duty Cycle NVNT 2-DH5 2402MHz Ant0

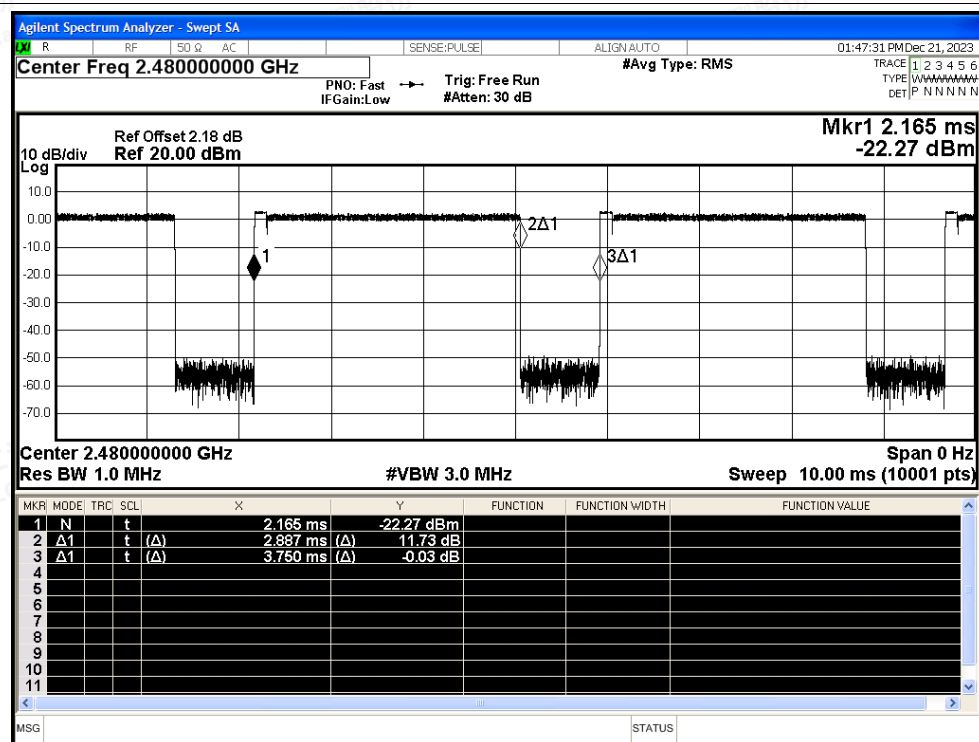




Duty Cycle NVNT 2-DH5 2441MHz Ant0

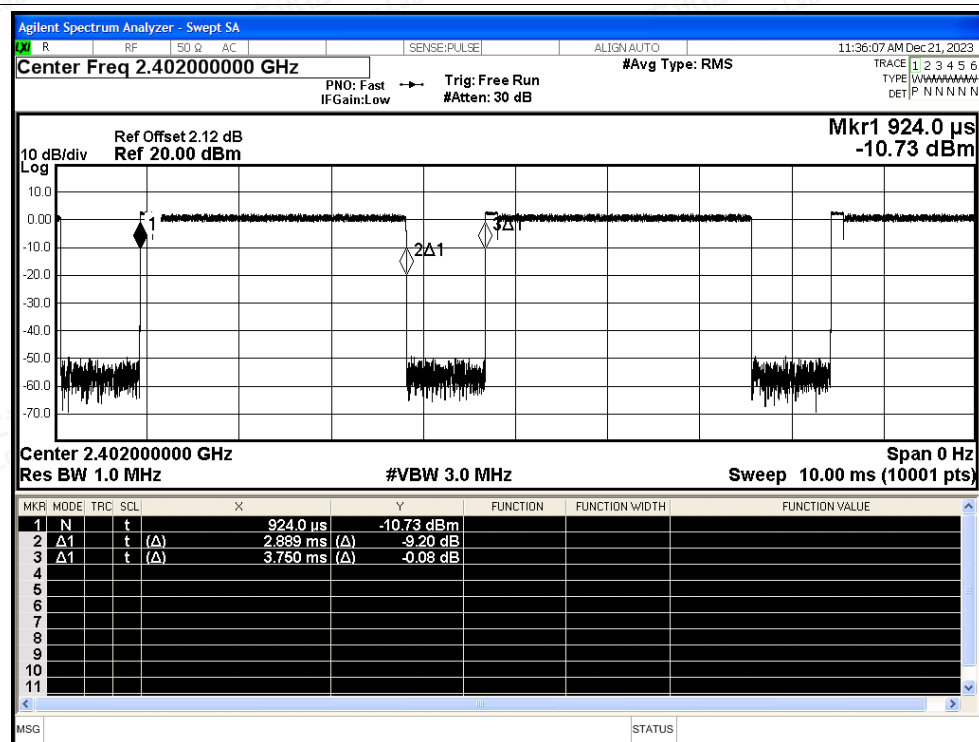


Duty Cycle NVNT 2-DH5 2480MHz Ant0

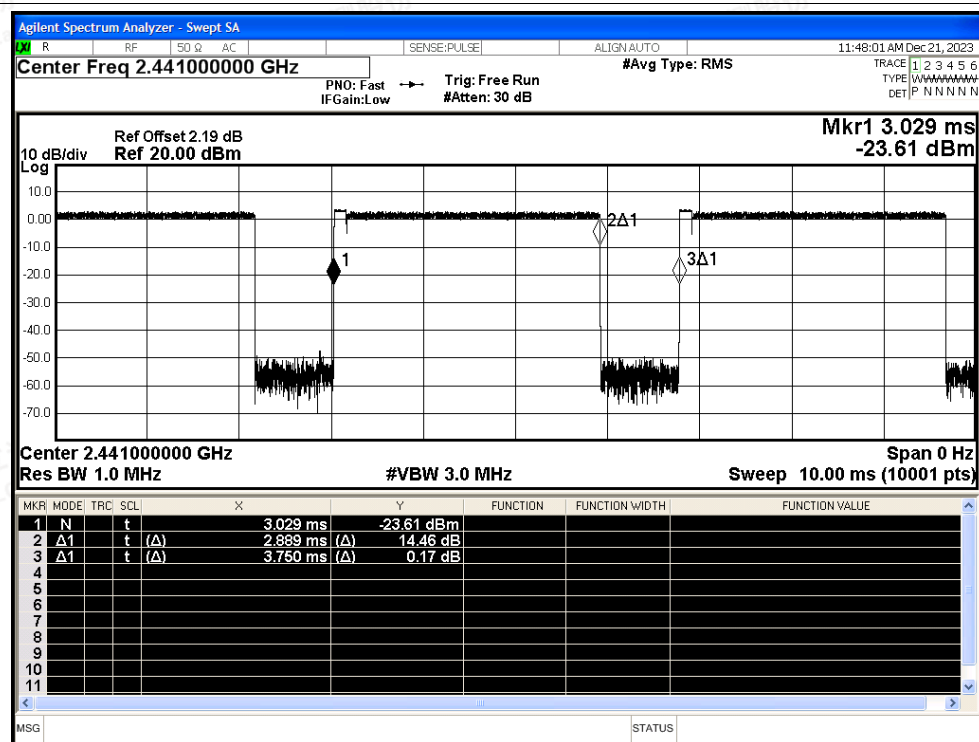


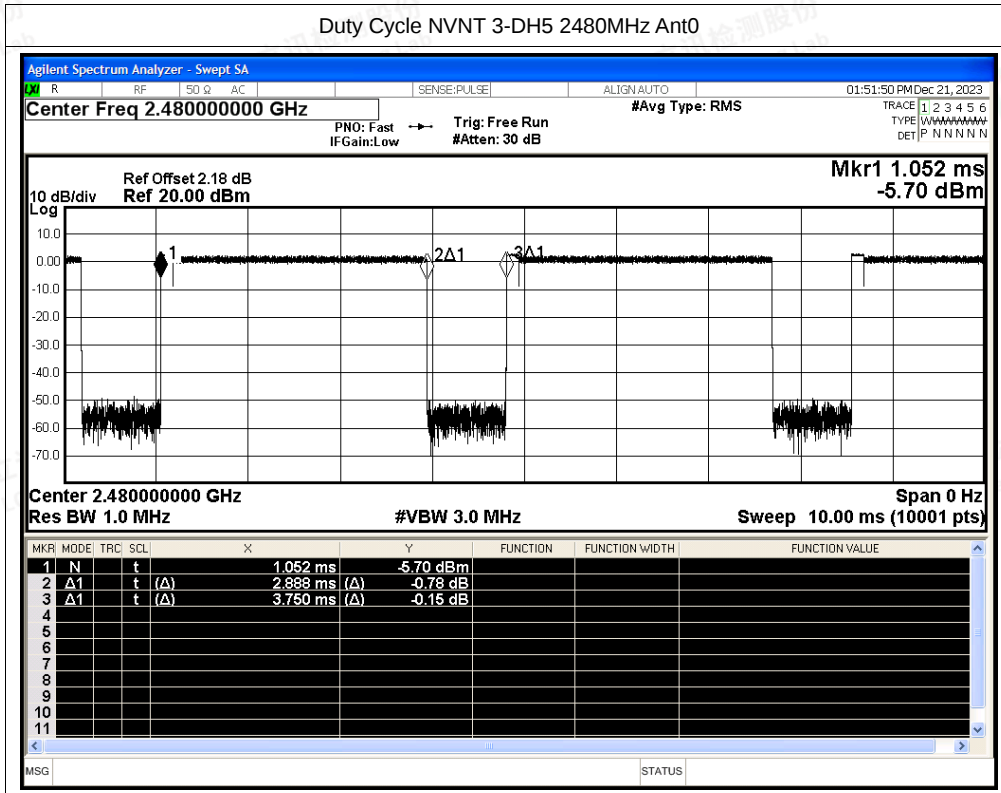


Duty Cycle NVNT 3-DH5 2402MHz Ant0



Duty Cycle NVNT 3-DH5 2441MHz Ant0







A.9 Restrict Band

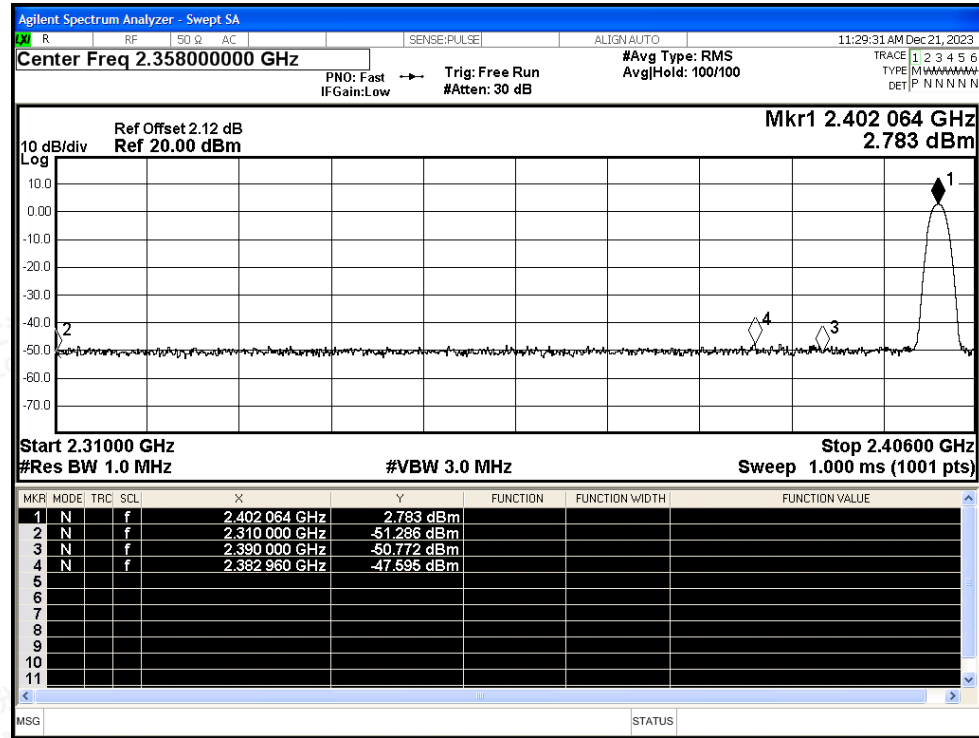
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant0	No-Hopping	2310	-51.29	3.8	47.74	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2310	-57.89	3.8	41.14	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2382.96	-47.6	3.8	51.43	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2386.8	-57.27	3.8	41.76	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-50.77	3.8	48.26	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-57.42	3.8	41.61	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-48.45	3.8	50.58	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-55.2	3.8	43.83	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2491.72	-47.29	3.8	51.74	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.512	-55.2	3.8	43.83	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-47.74	3.8	51.29	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-57.18	3.8	41.85	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-50.25	3.8	48.78	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-57.87	3.8	41.16	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2331.6	-47.65	3.8	51.38	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2387.28	-57.29	3.8	41.74	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-49.05	3.8	49.98	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-57.35	3.8	41.68	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-48.67	3.8	50.36	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-54	3.8	45.03	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2487.184	-46.43	3.8	52.60	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.512	-54	3.8	45.03	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-50.65	3.8	48.38	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-57.12	3.8	41.91	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-49.74	3.8	49.29	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-57.85	3.8	41.18	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2360.496	-47.25	3.8	51.78	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2388.816	-57.25	3.8	41.78	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-50.35	3.8	48.68	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-57.41	3.8	41.62	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-46.66	3.8	52.37	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-53.88	3.8	45.15	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.512	-46.66	3.8	52.37	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.512	-53.88	3.8	45.15	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-48.8	3.8	50.23	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-57.04	3.8	41.99	Average	54	Pass



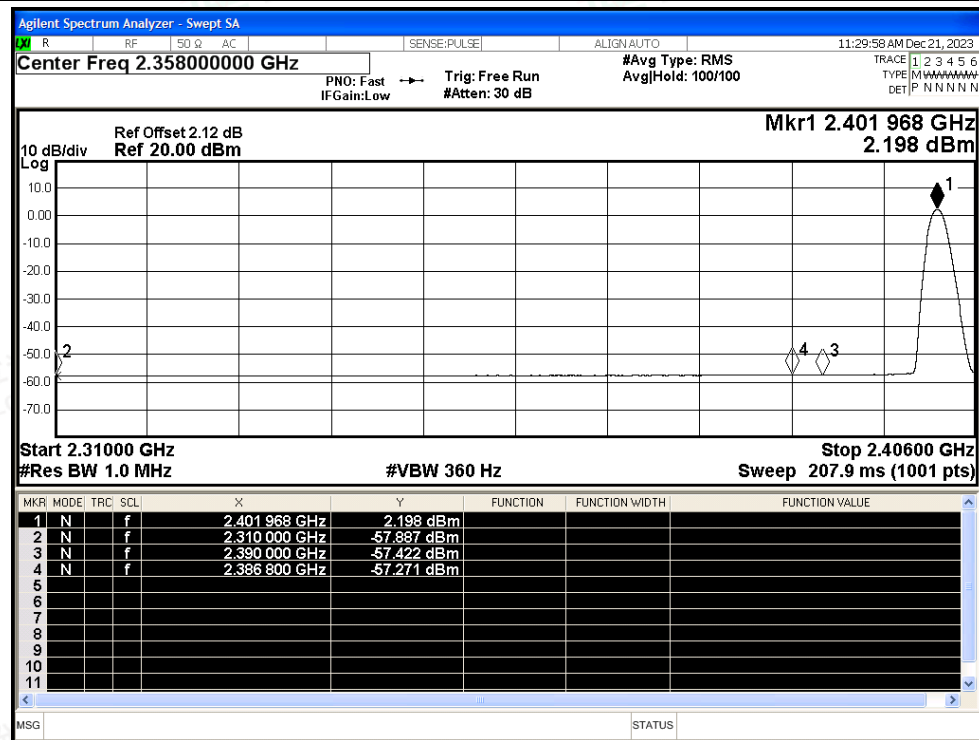


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant0 No-Hopping Peak

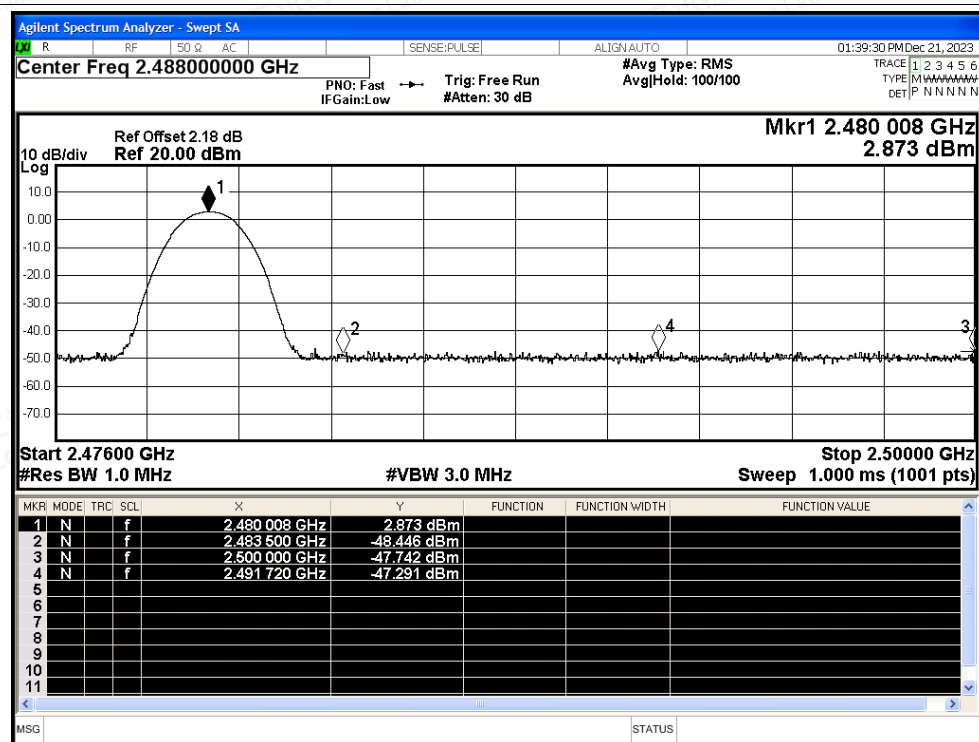


Restrict Band NVNT 1-DH5 2402MHz Ant0 No-Hopping Average

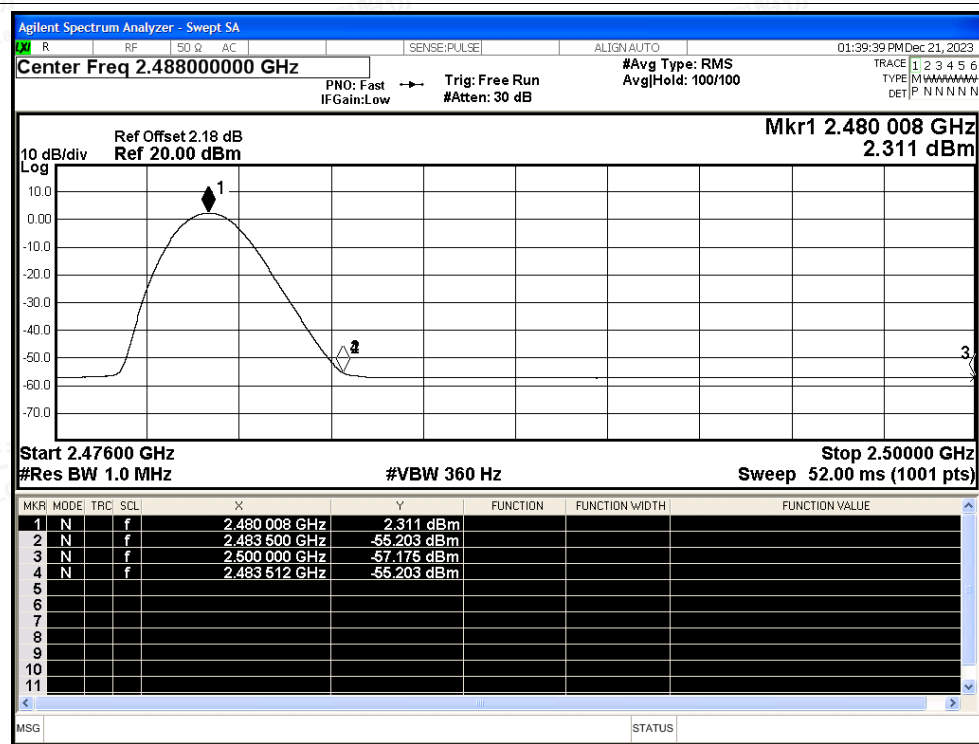




Restrict Band NVNT 1-DH5 2480MHz Ant0 No-Hopping Peak

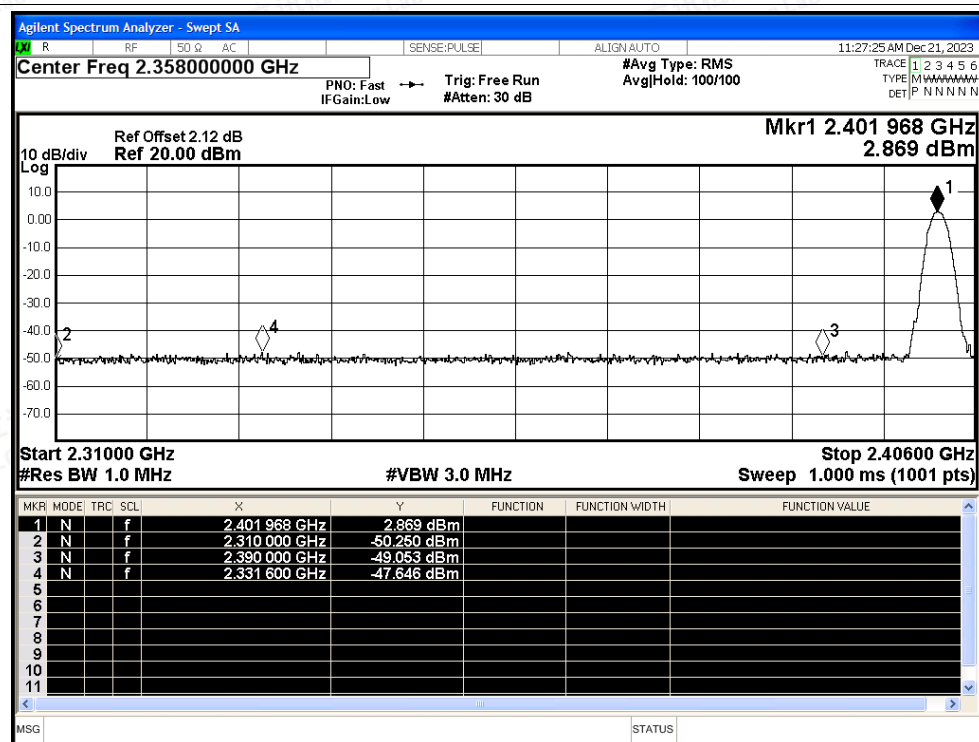


Restrict Band NVNT 1-DH5 2480MHz Ant0 No-Hopping Average

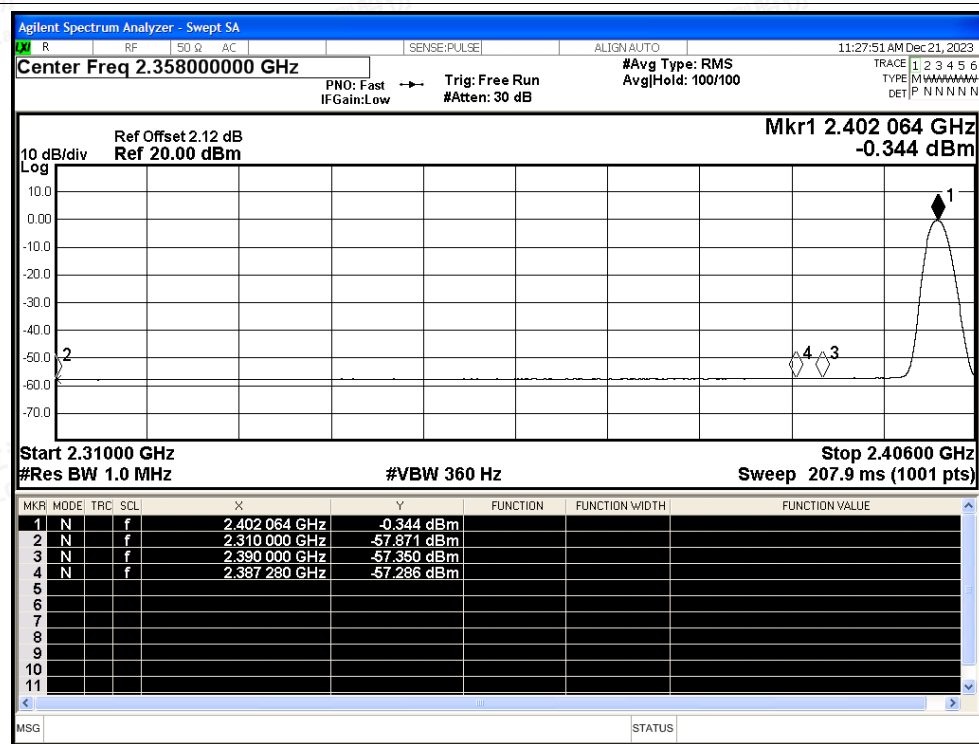




Restrict Band NVNT 2-DH5 2402MHz Ant0 No-Hopping Peak

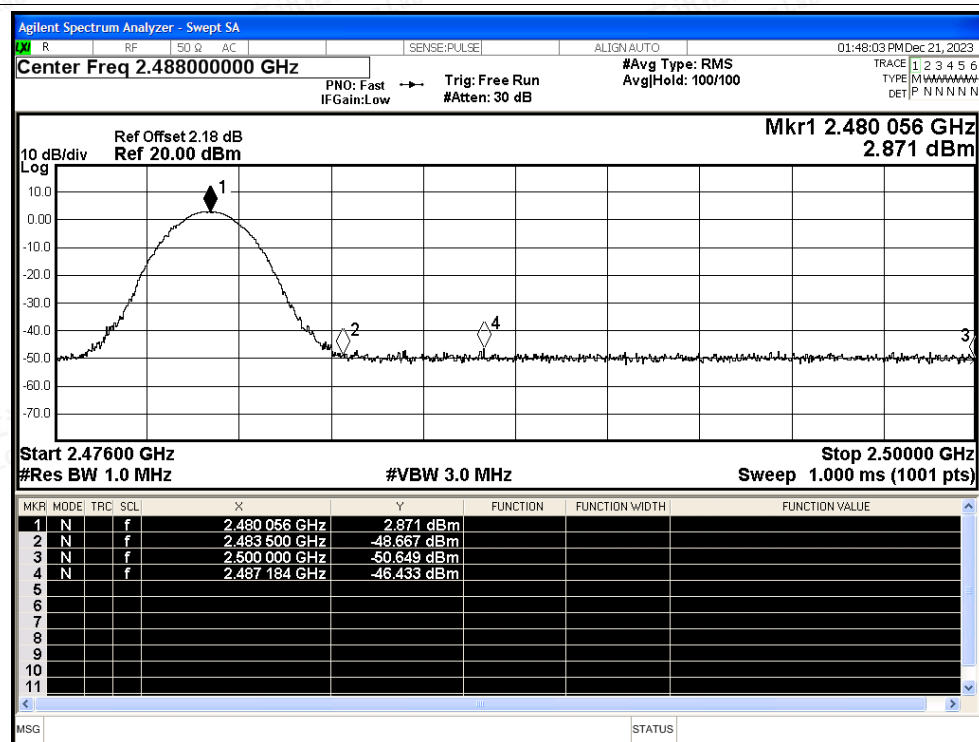


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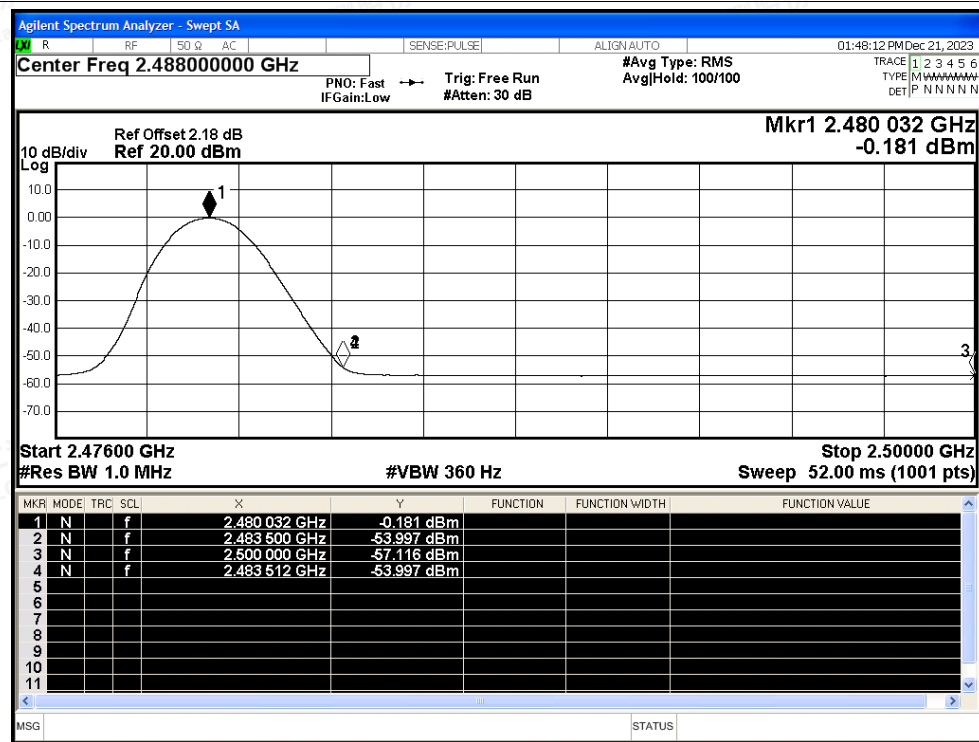




Restrict Band NVNT 2-DH5 2480MHz Ant0 No-Hopping Peak

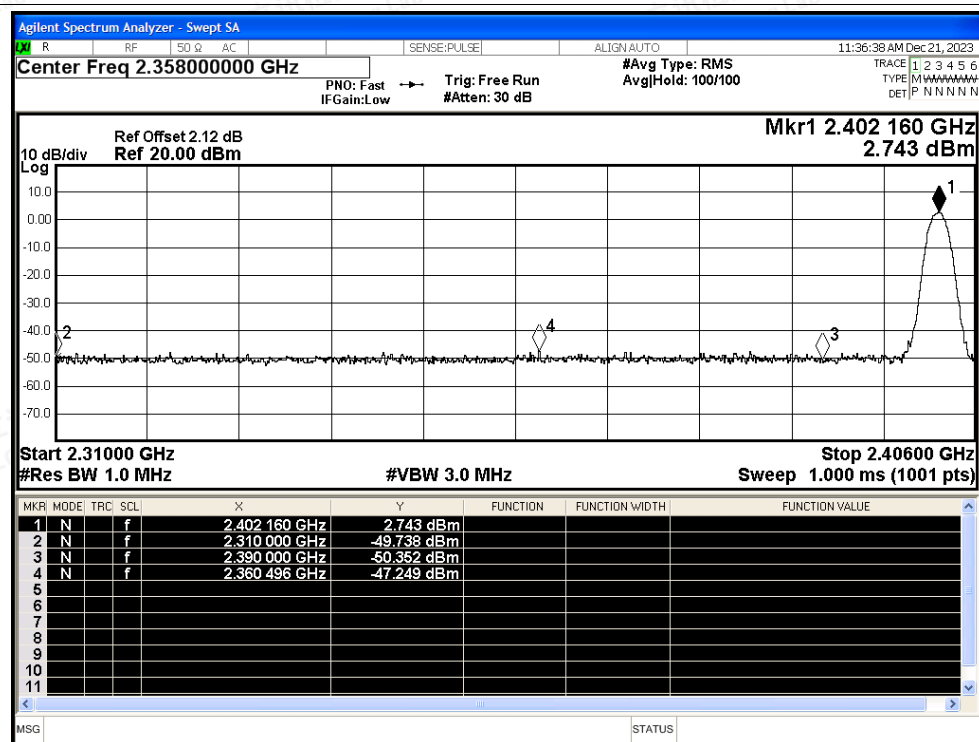


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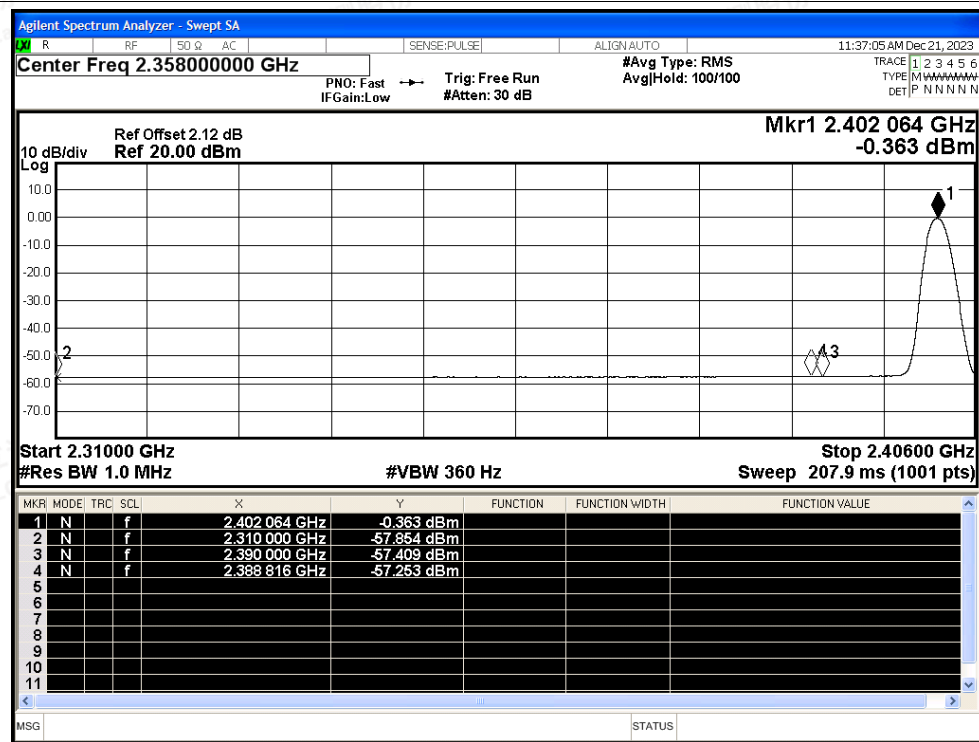




Restrict Band NVNT 3-DH5 2402MHz Ant0 No-Hopping Peak

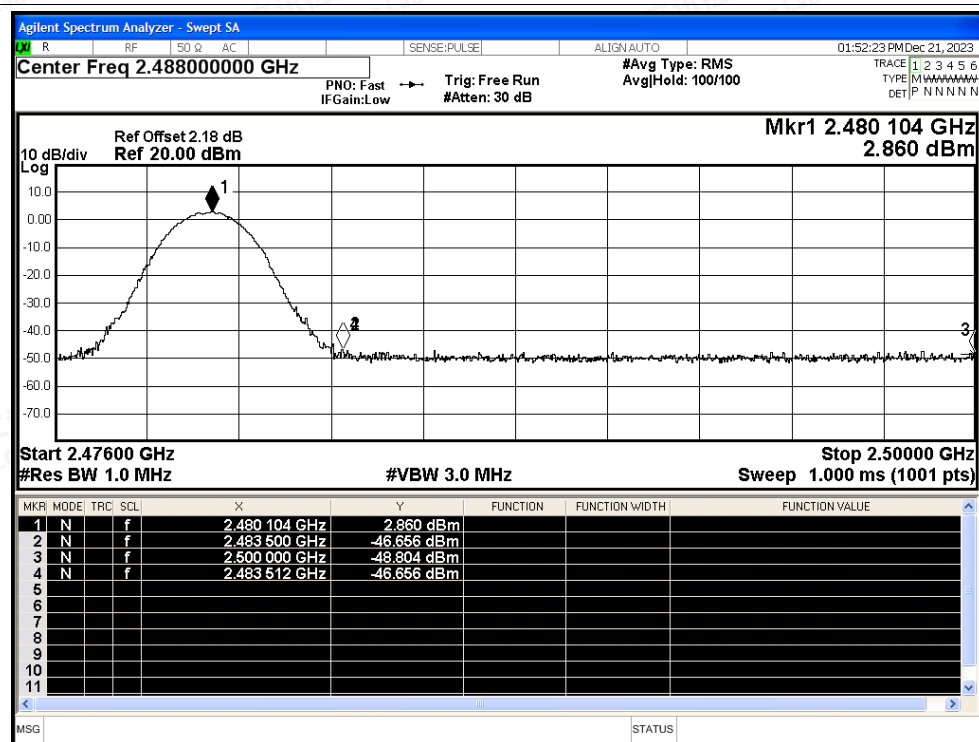


Restrict Band NVNT 3-DH5 2402MHz Ant0 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant0 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant0 No-Hopping Average

