



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Multi Speaker Active Subwoofer System With Amazing Full Panel Lighting System

Test Model: PartySystem EP-80

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Monkey Li
Supervised by:	 Li Huan





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.019	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.964	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.024	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.307	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.312	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.279	N/A	Pass

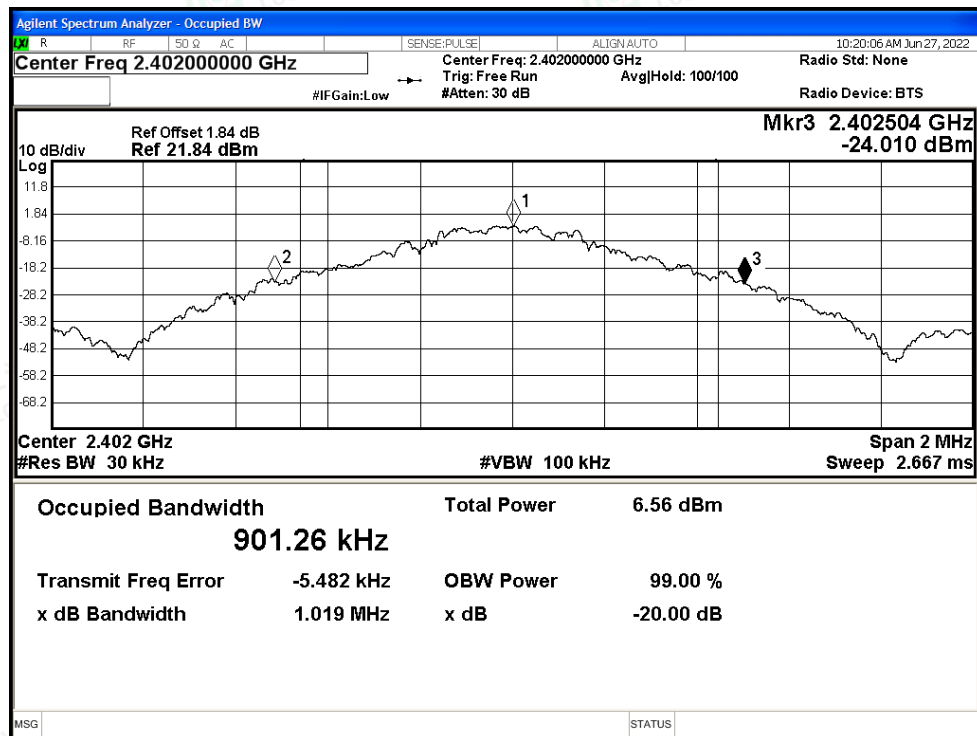


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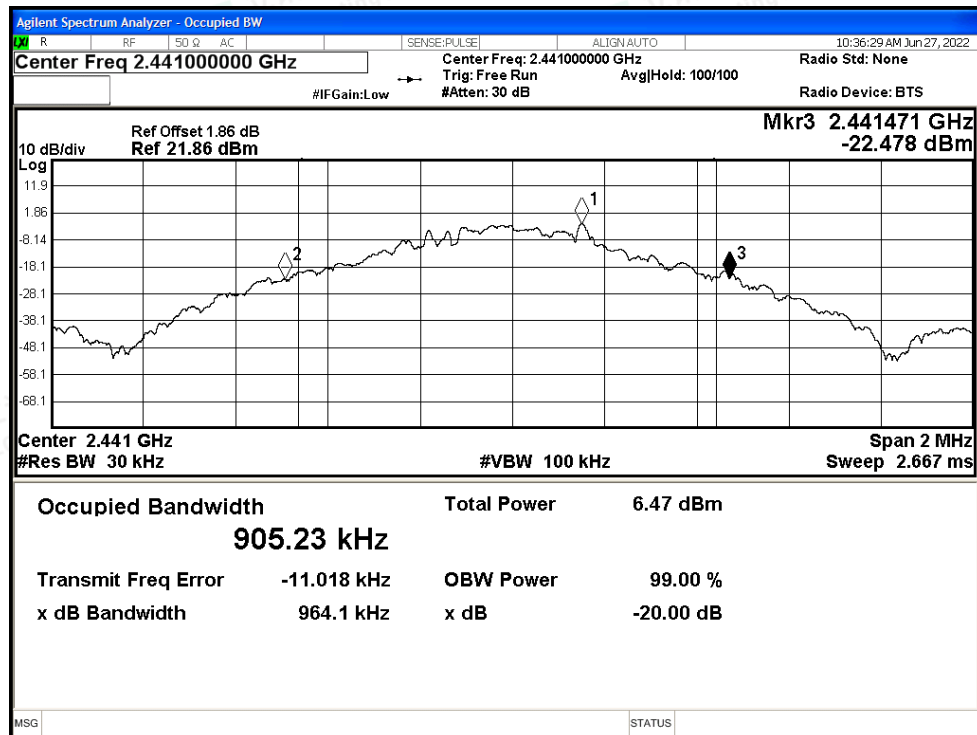


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

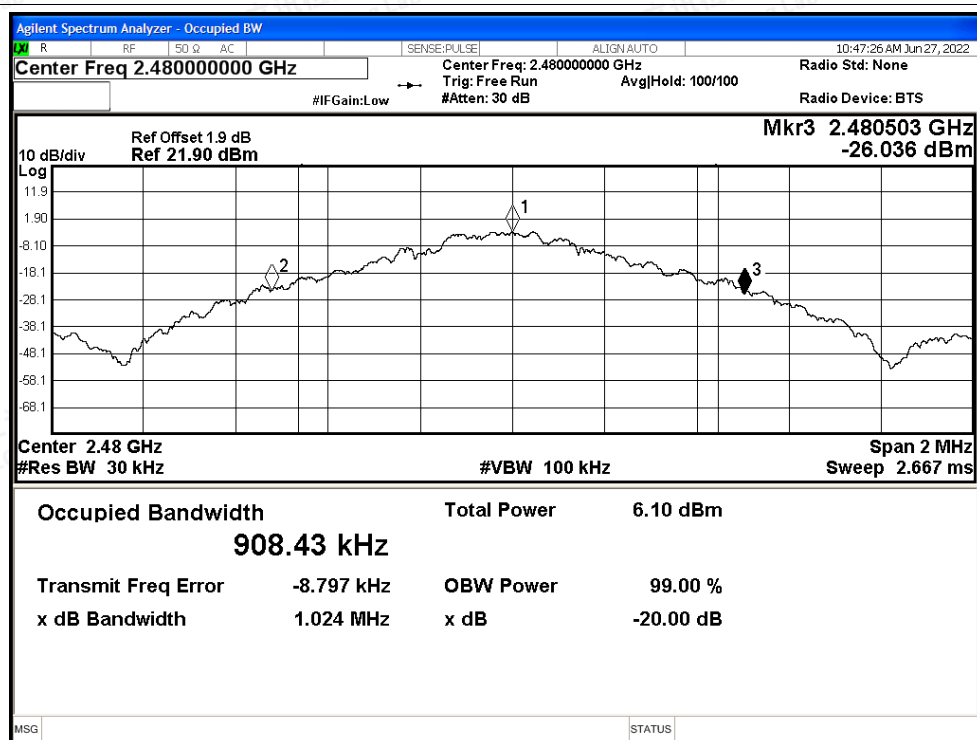


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

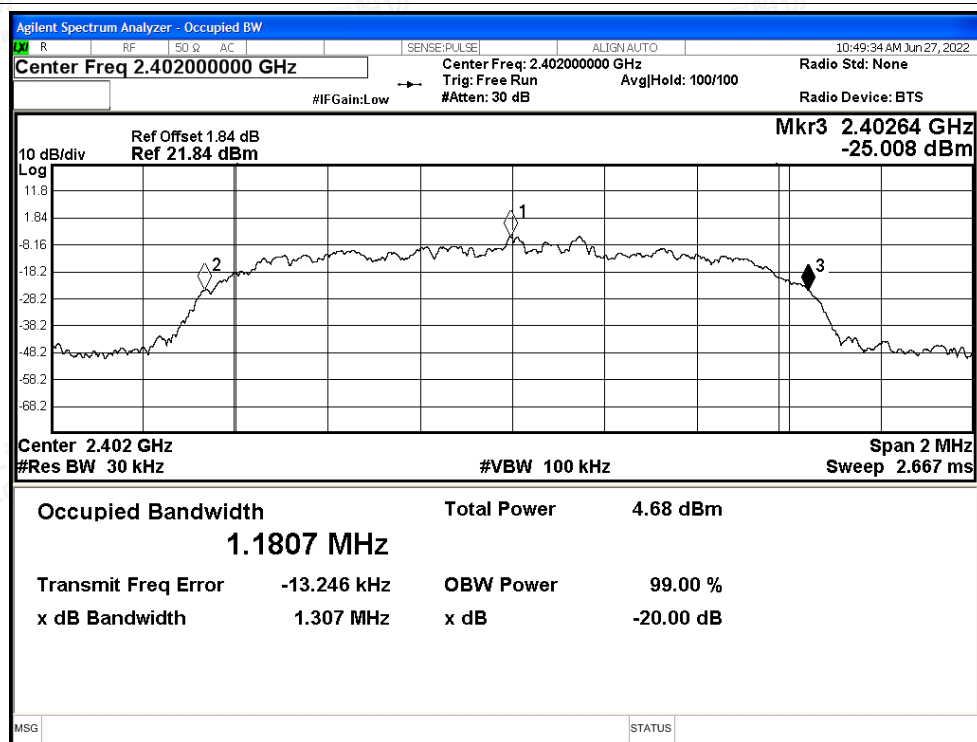




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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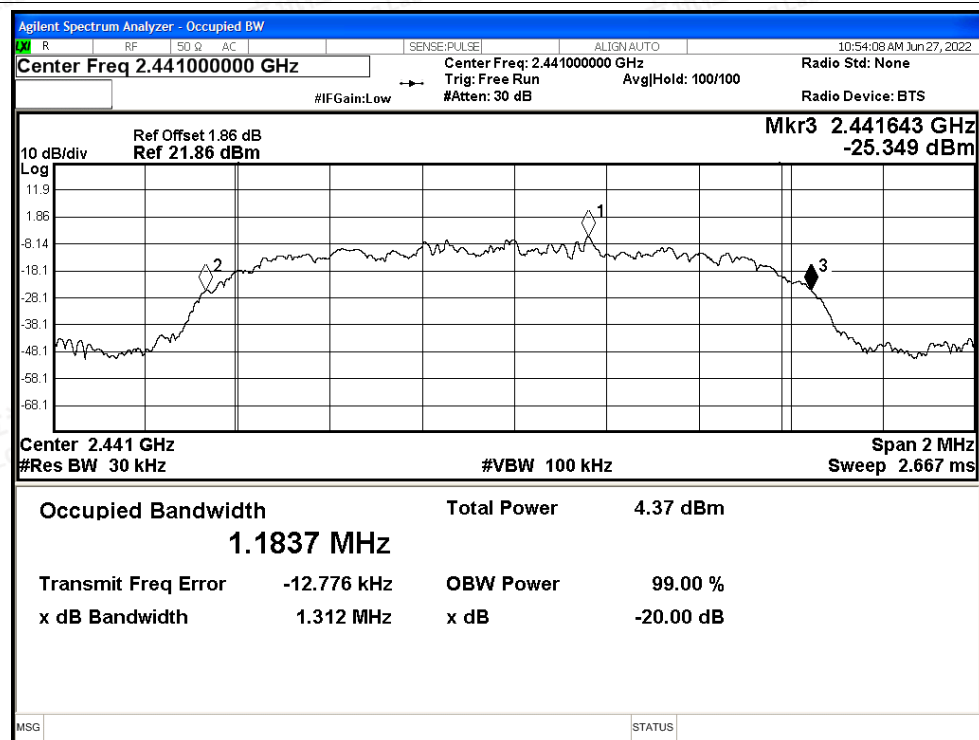
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

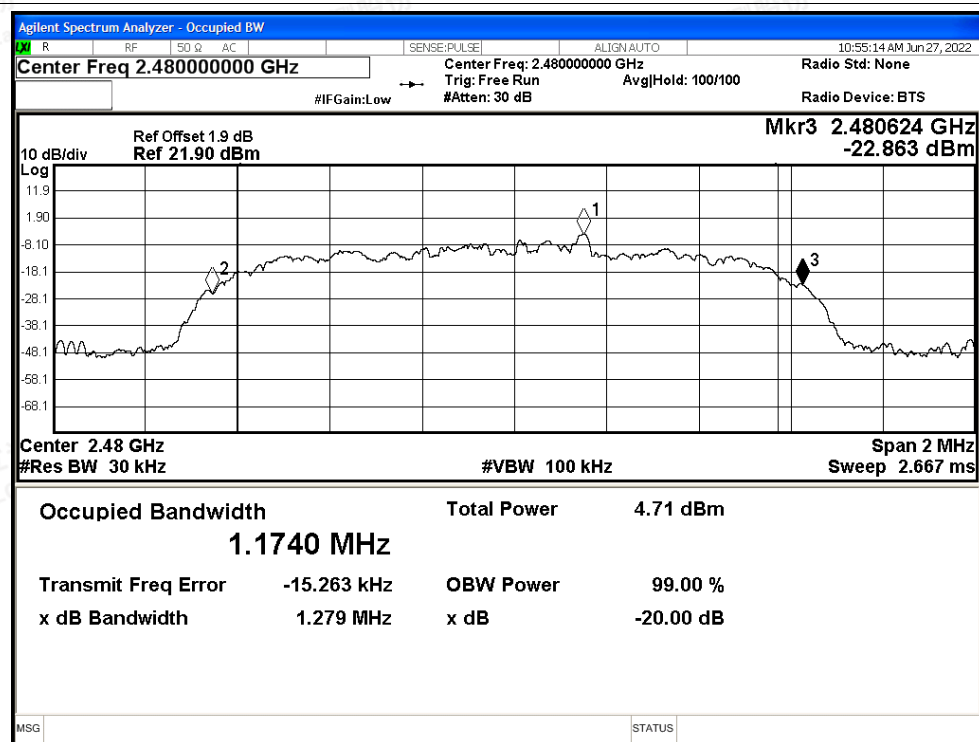
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

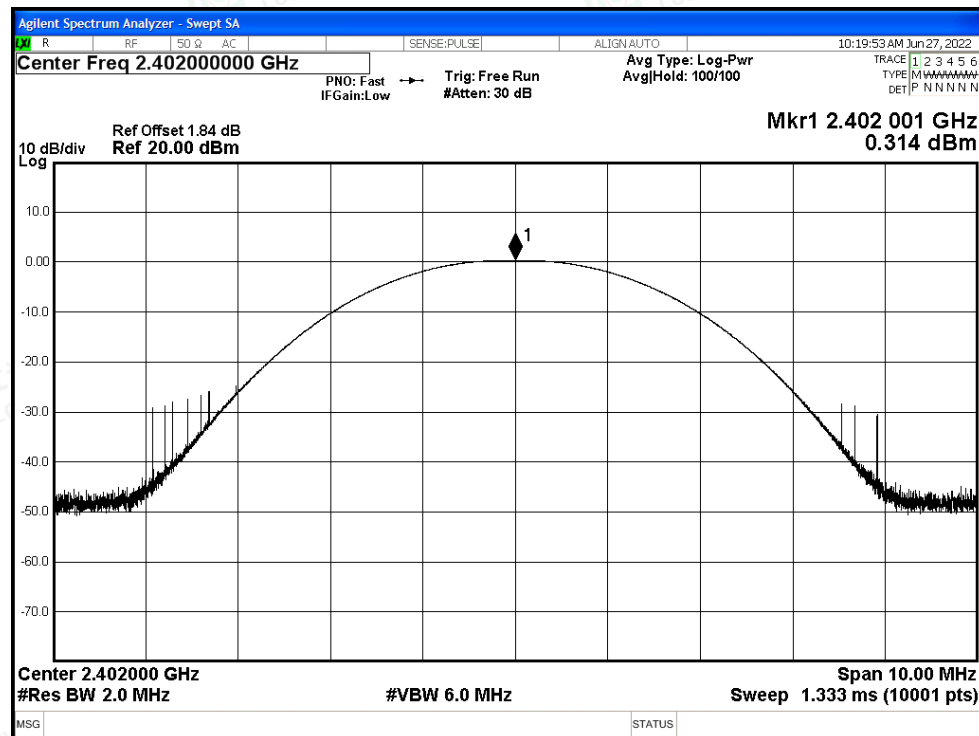
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.31	0	0.31	21	Pass
NVNT	1-DH5	2441	Ant1	0.33	0	0.33	21	Pass
NVNT	1-DH5	2480	Ant1	0.06	0	0.06	21	Pass
NVNT	2-DH5	2402	Ant1	-0.04	0	-0.04	21	Pass
NVNT	2-DH5	2441	Ant1	0.15	0	0.15	21	Pass
NVNT	2-DH5	2480	Ant1	-0.12	0	-0.12	21	Pass



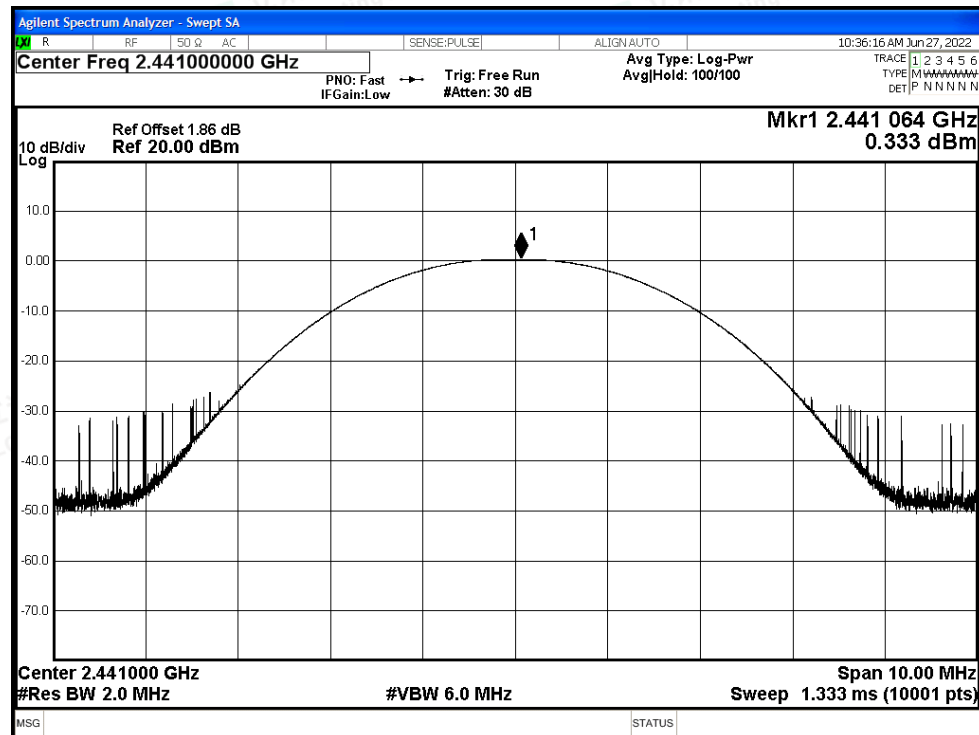


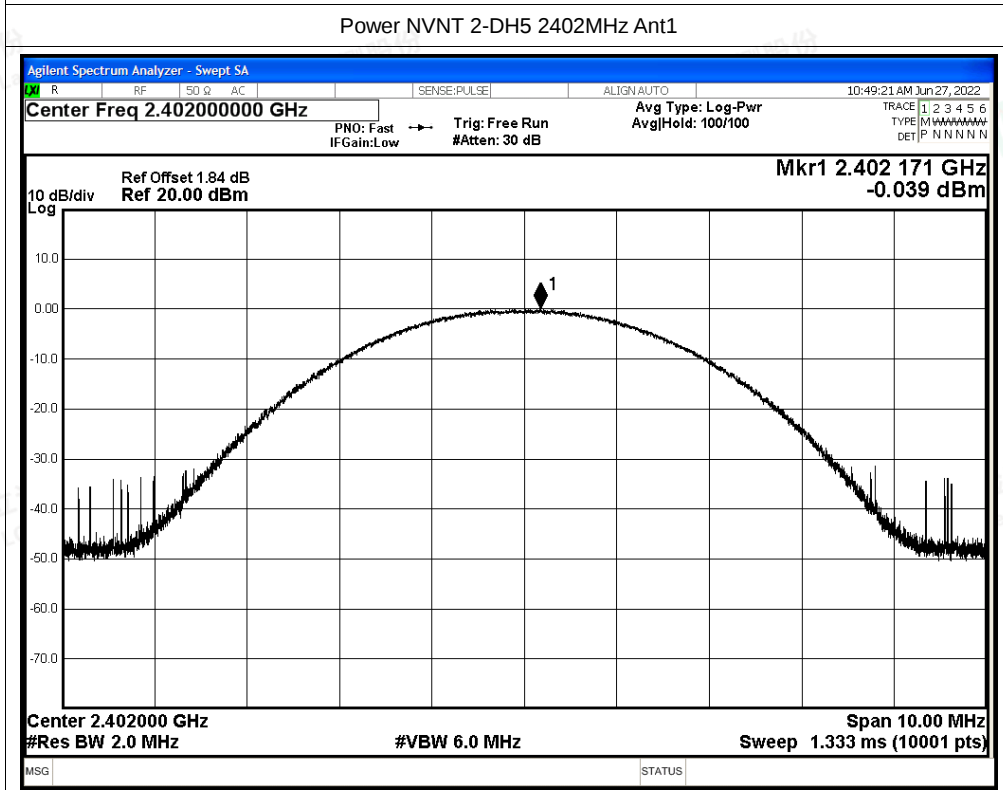
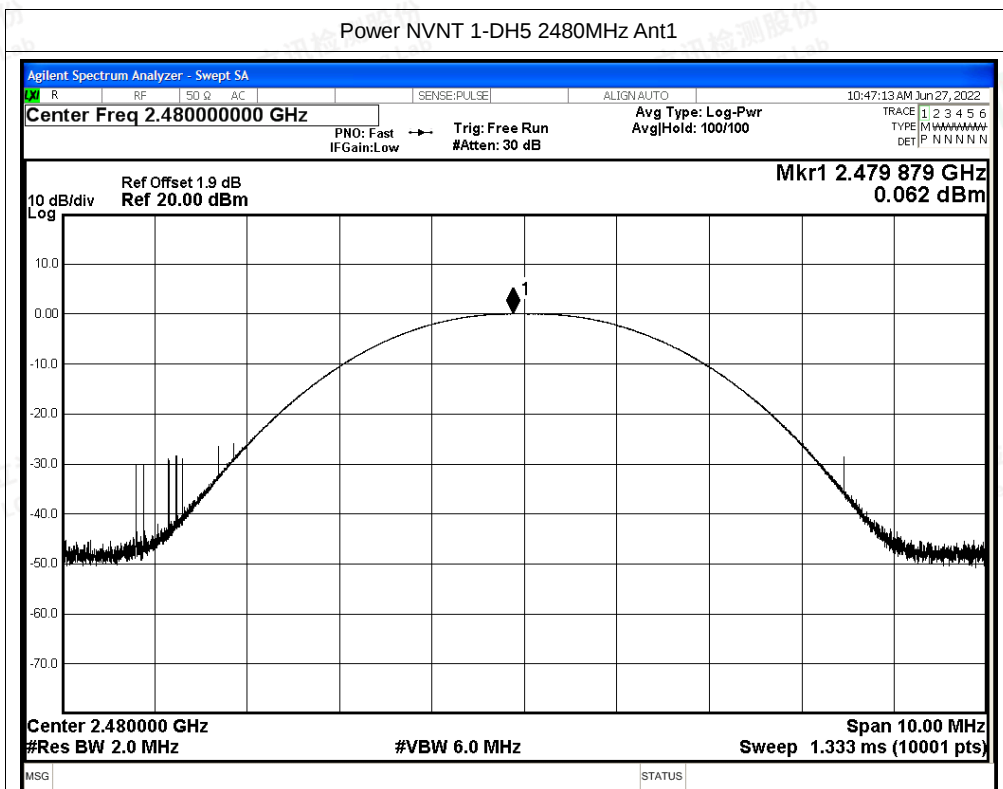
Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



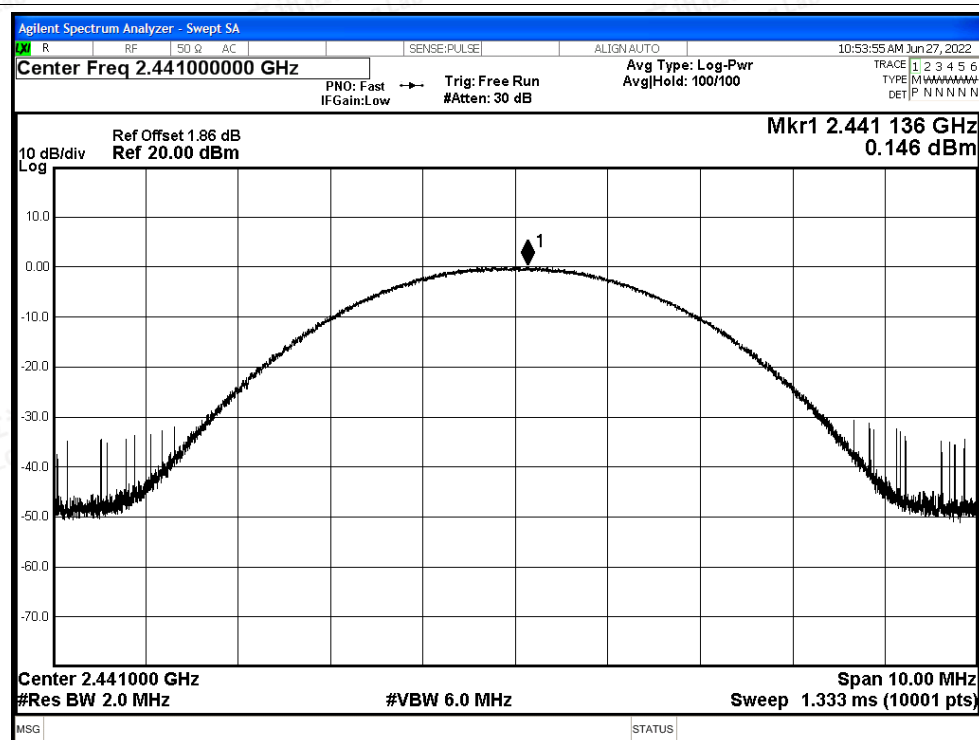
Power NVNT 1-DH5 2441MHz Ant1



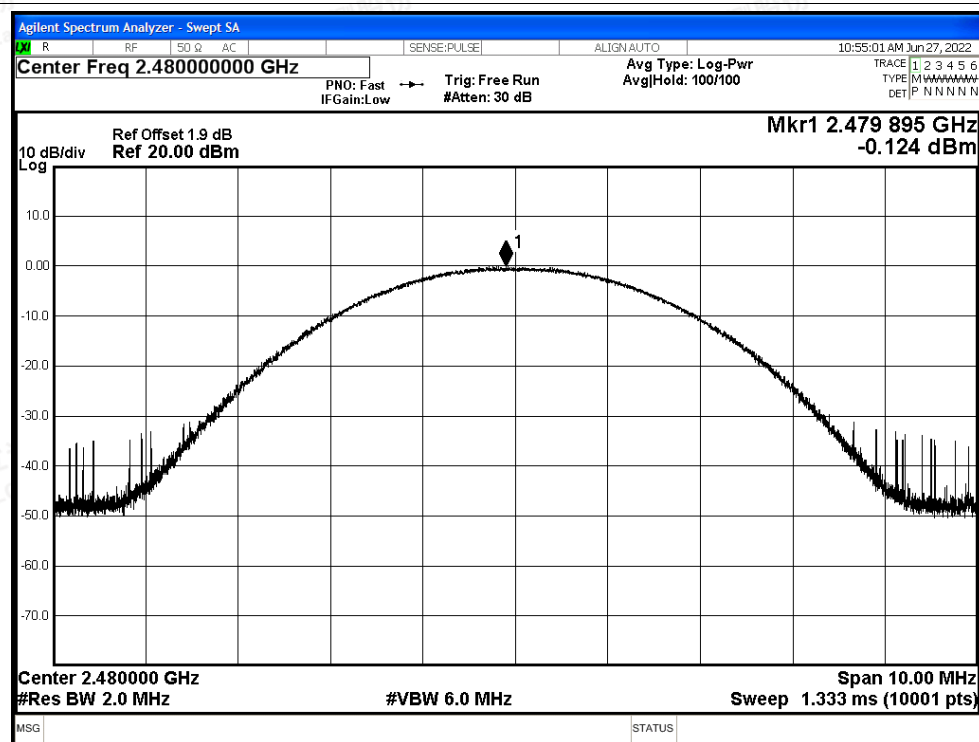




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.15	2402.958	0.808	0.679	Pass
NVNT	2-DH5	Ant1	2401.83	2403.154	1.324	0.871	Pass

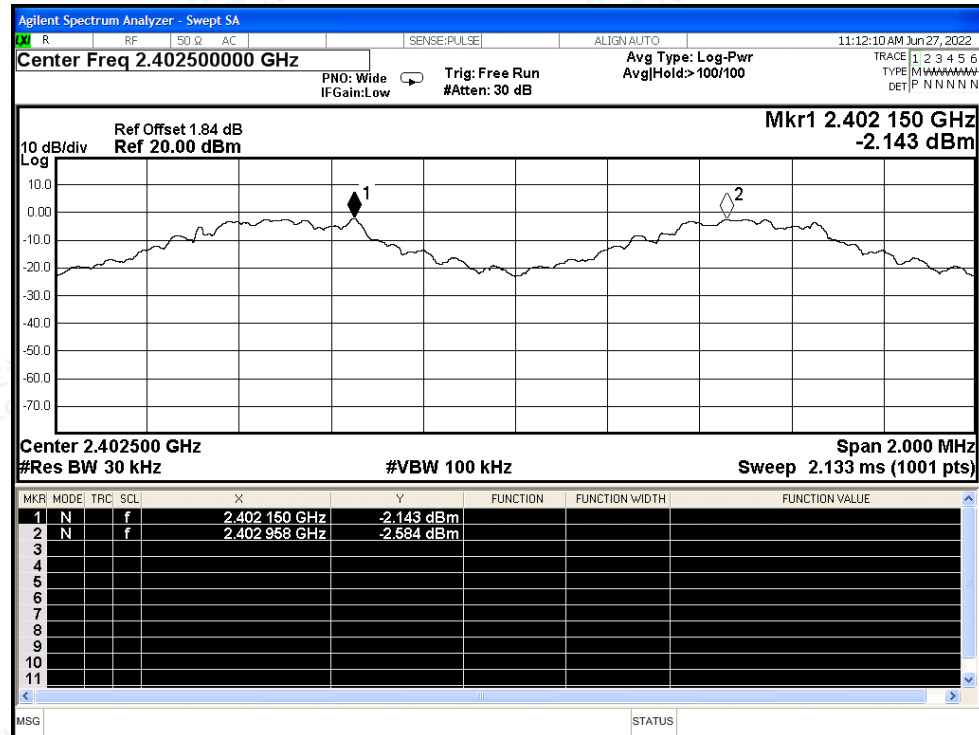


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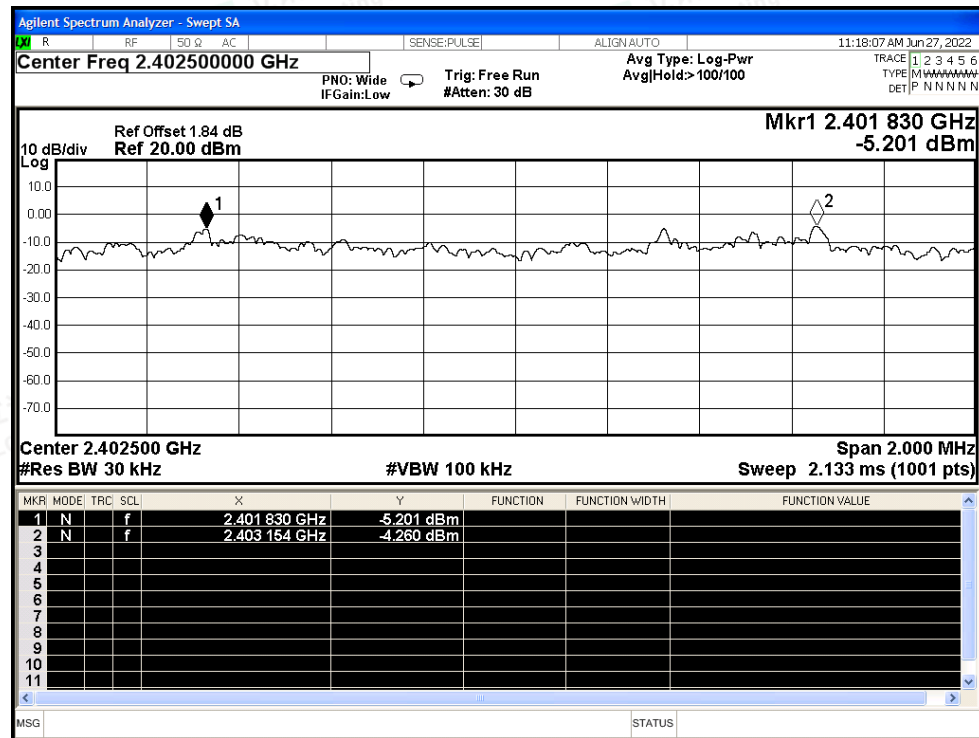


Test Graphs

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	302.61	105	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	296.64	103	31600	400	Pass

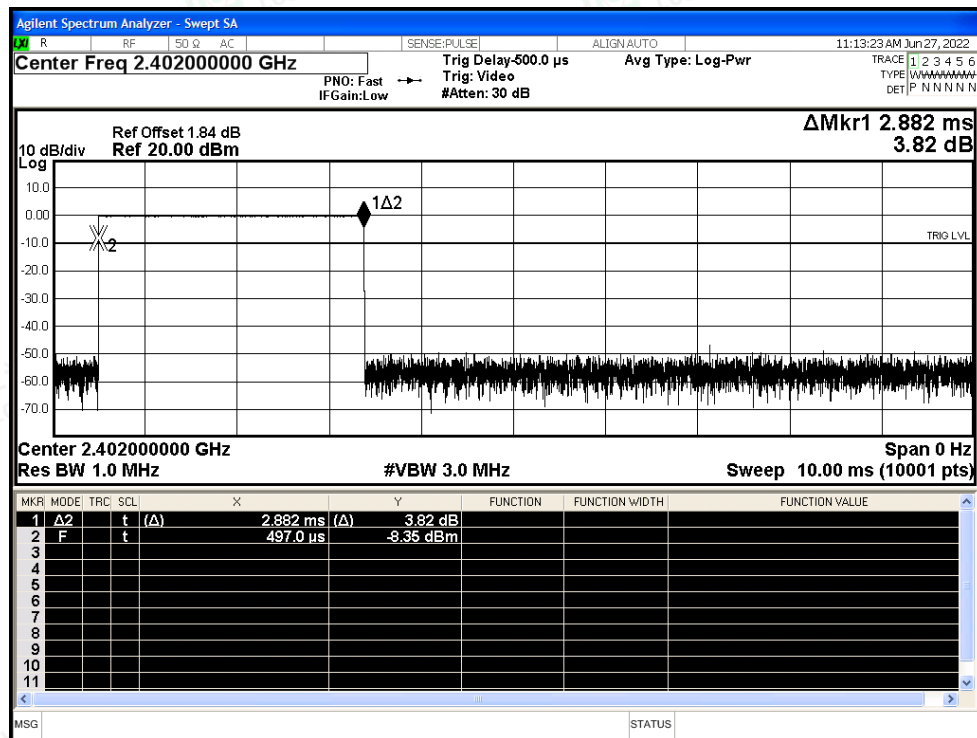


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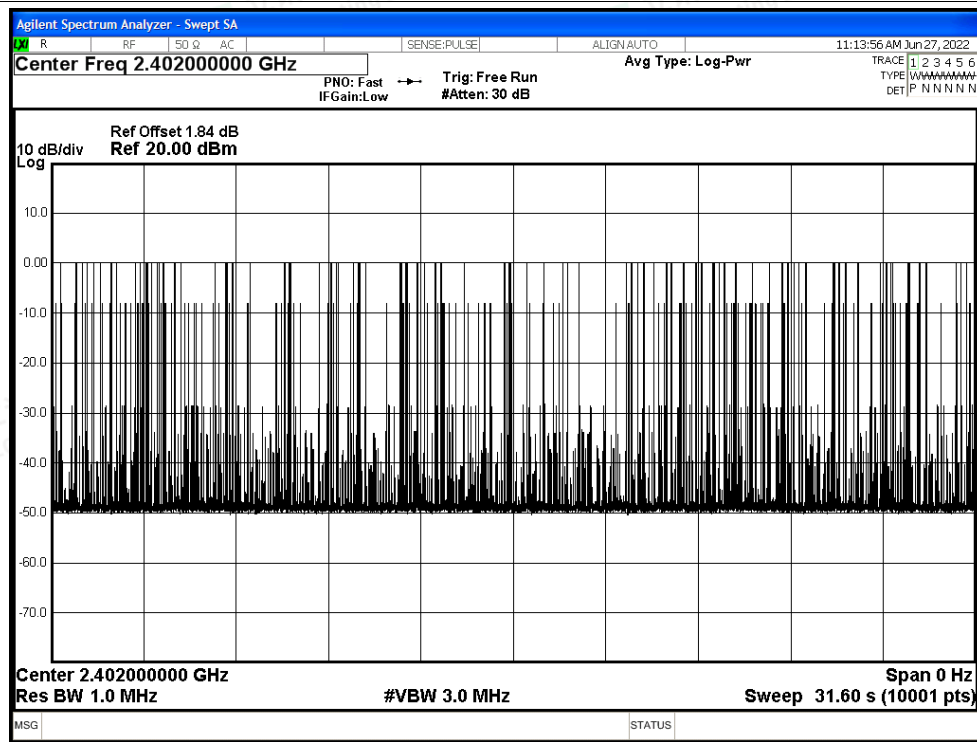


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

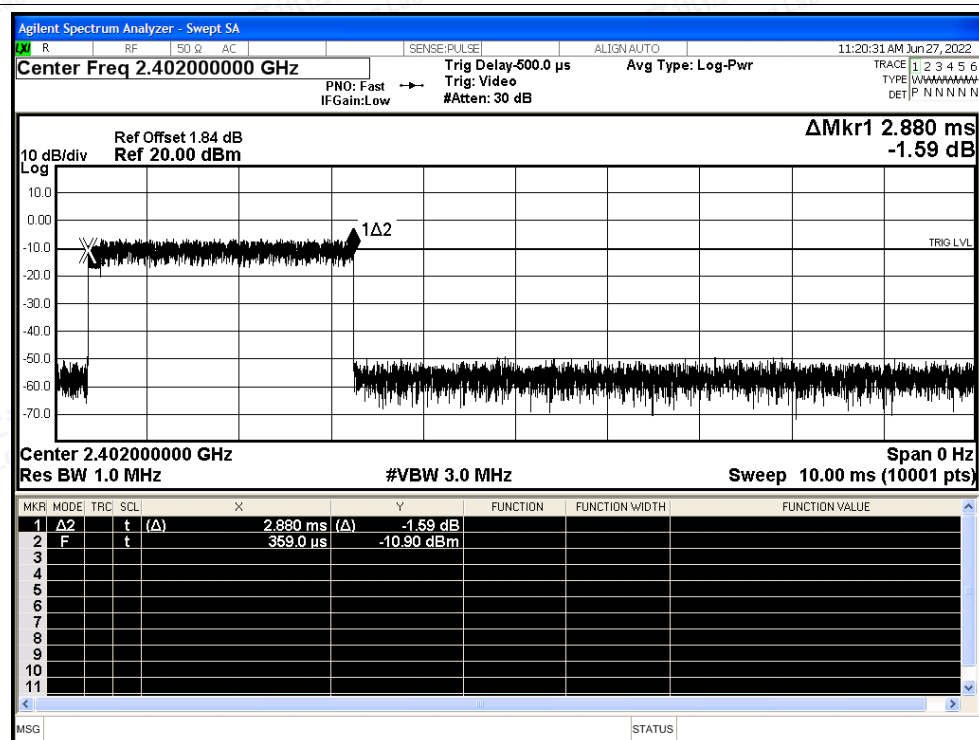


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

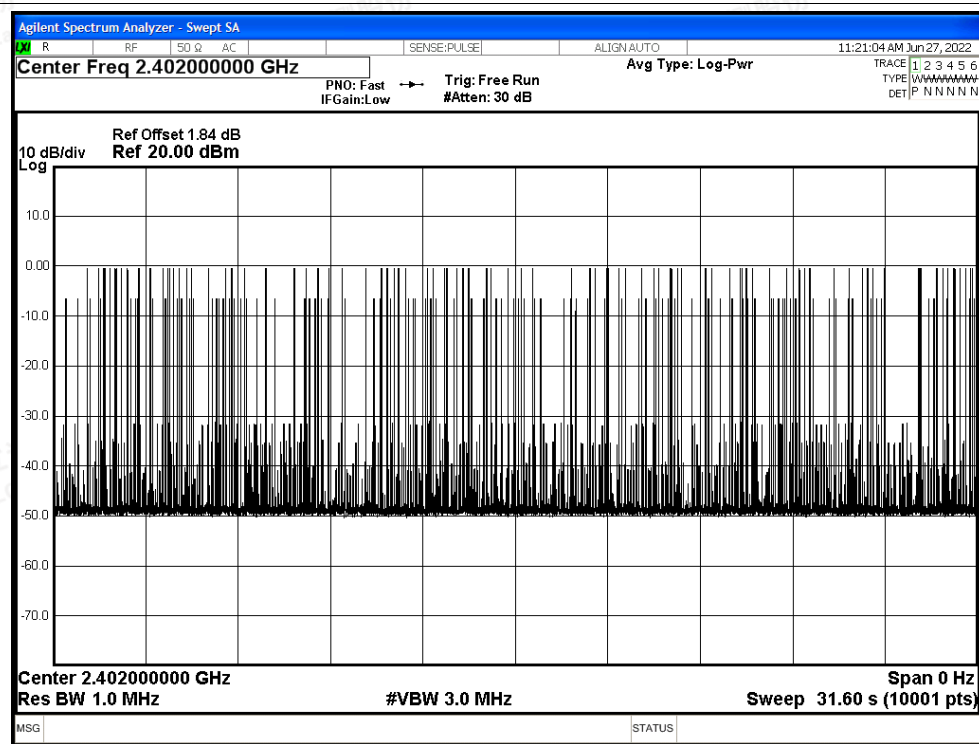




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





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

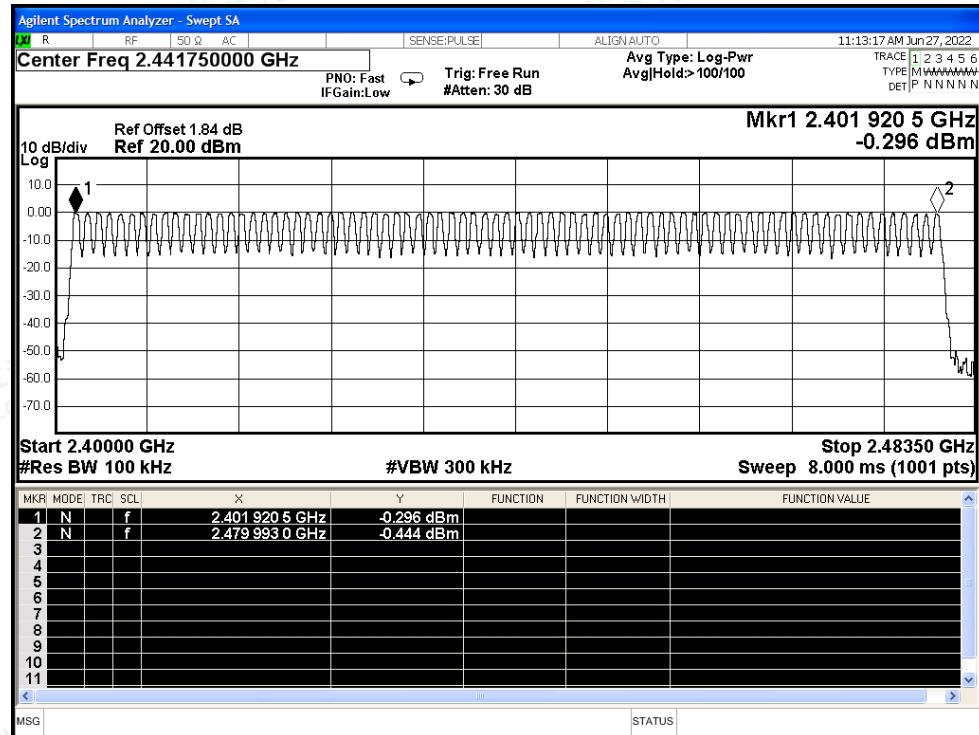


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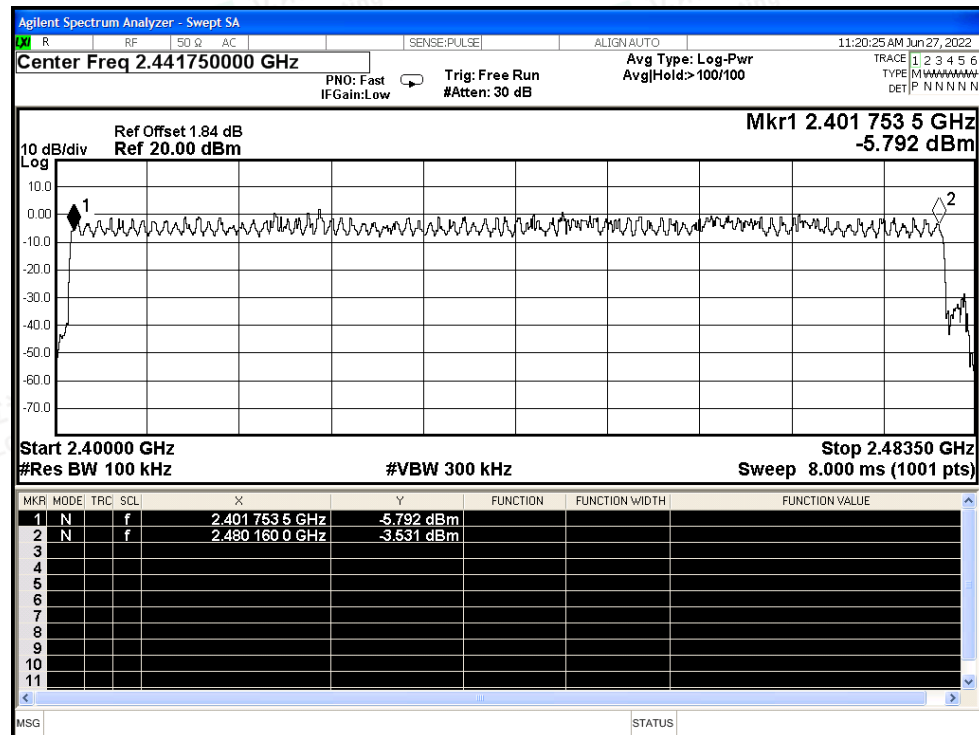


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-50.01	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.78	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-48.07	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.56	-20	Pass

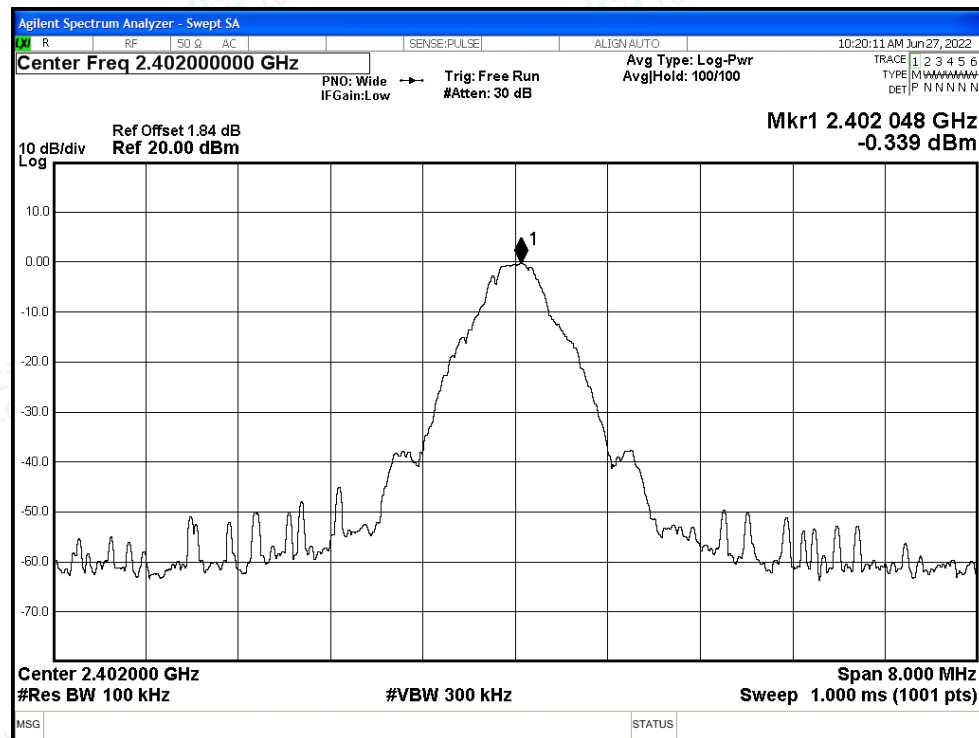


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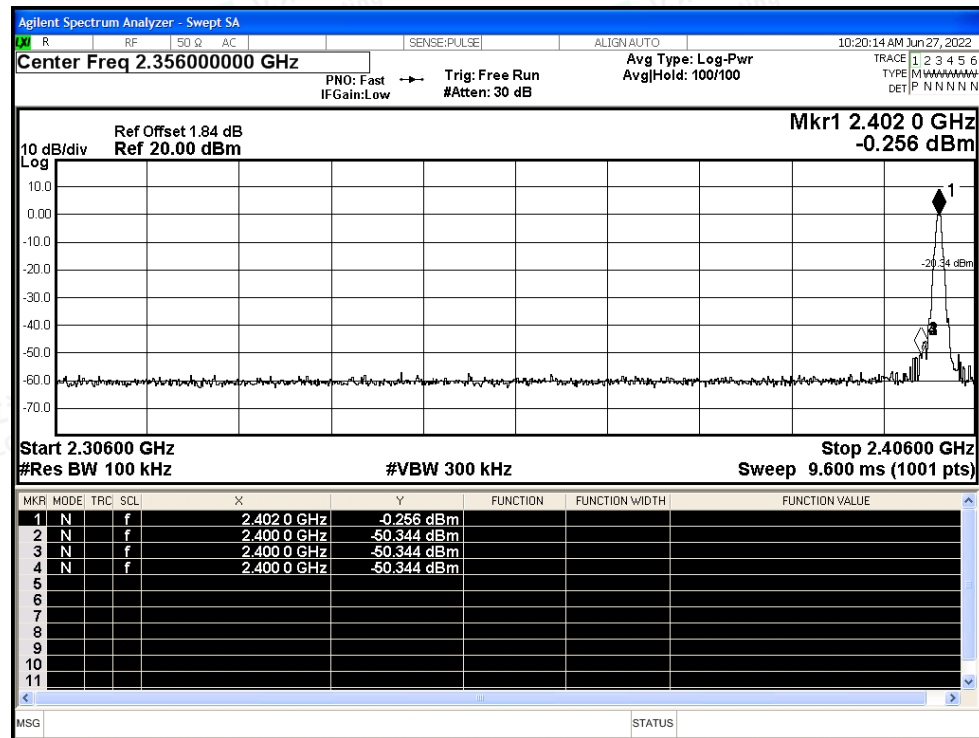


Test Graphs

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

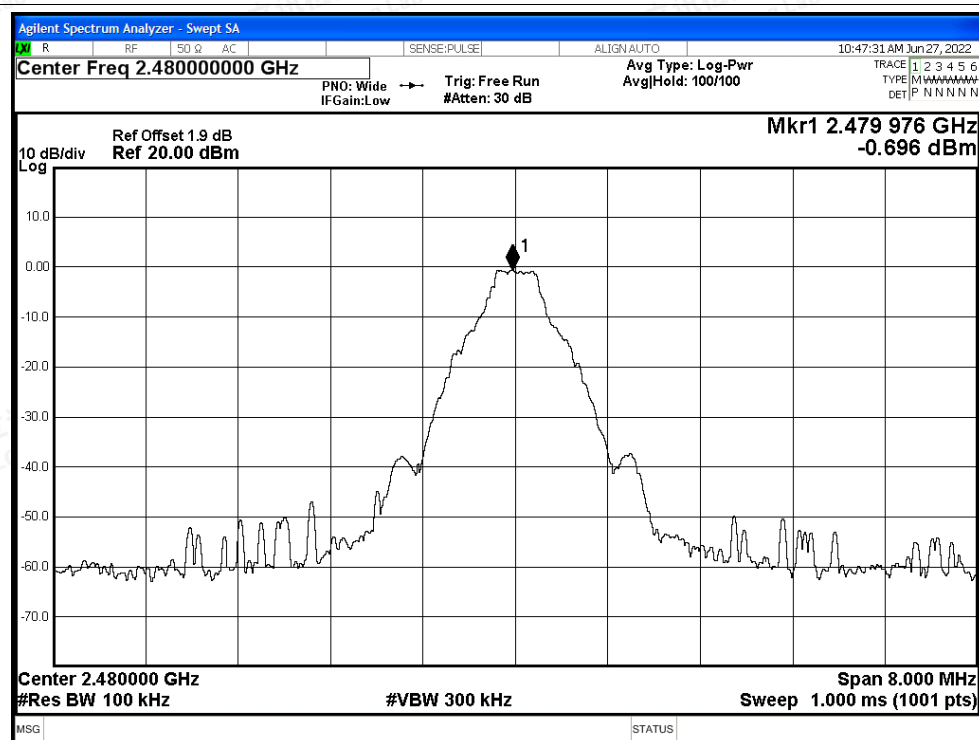


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

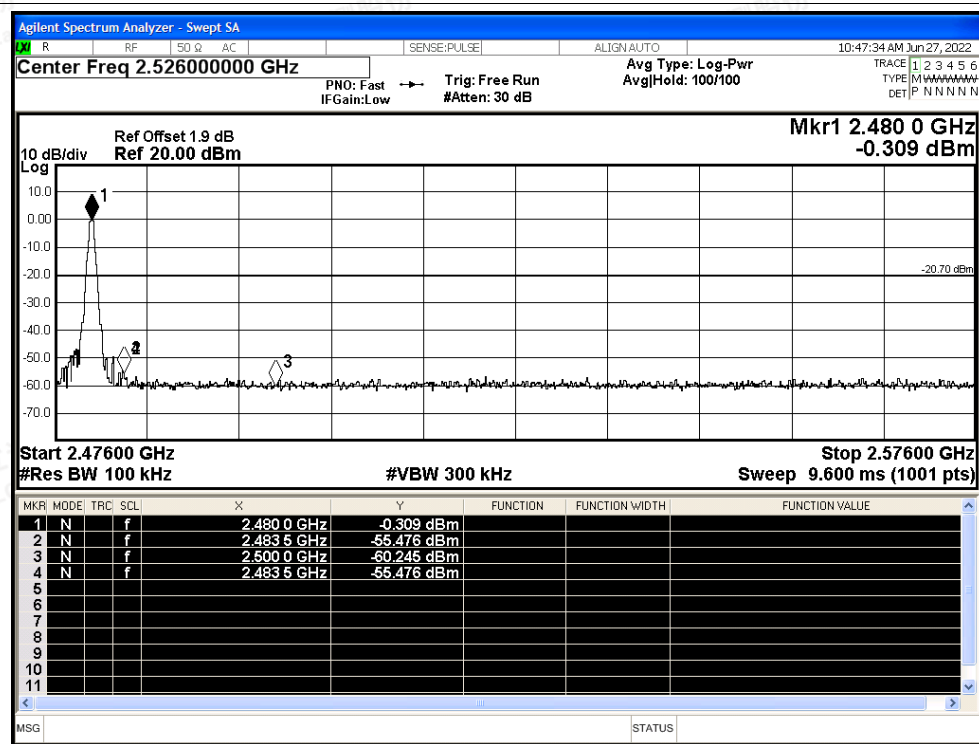




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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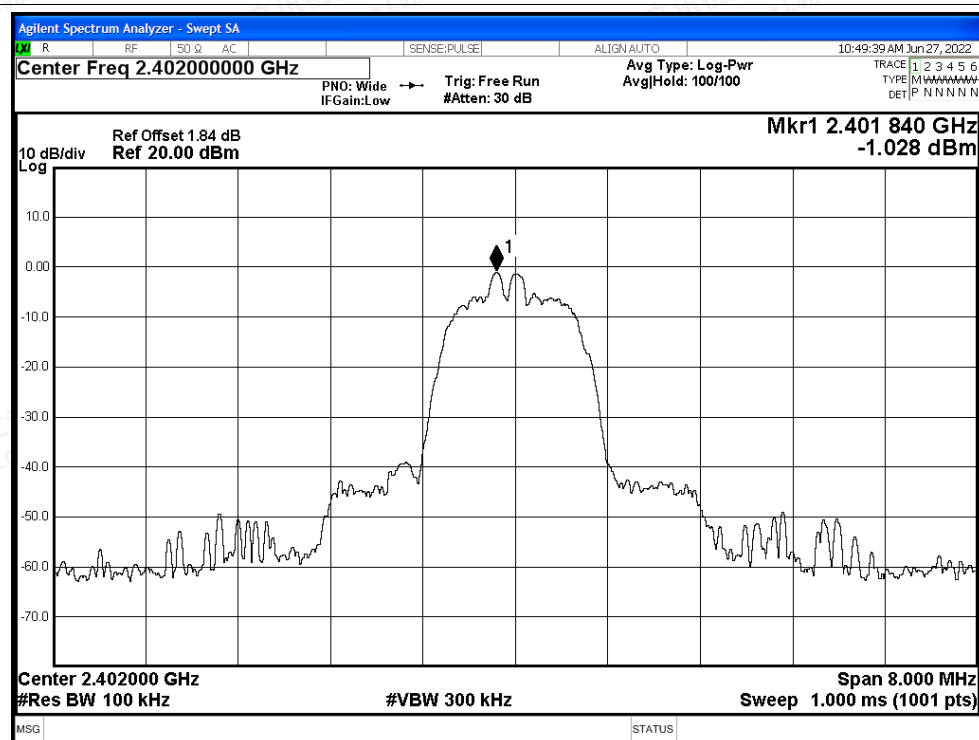
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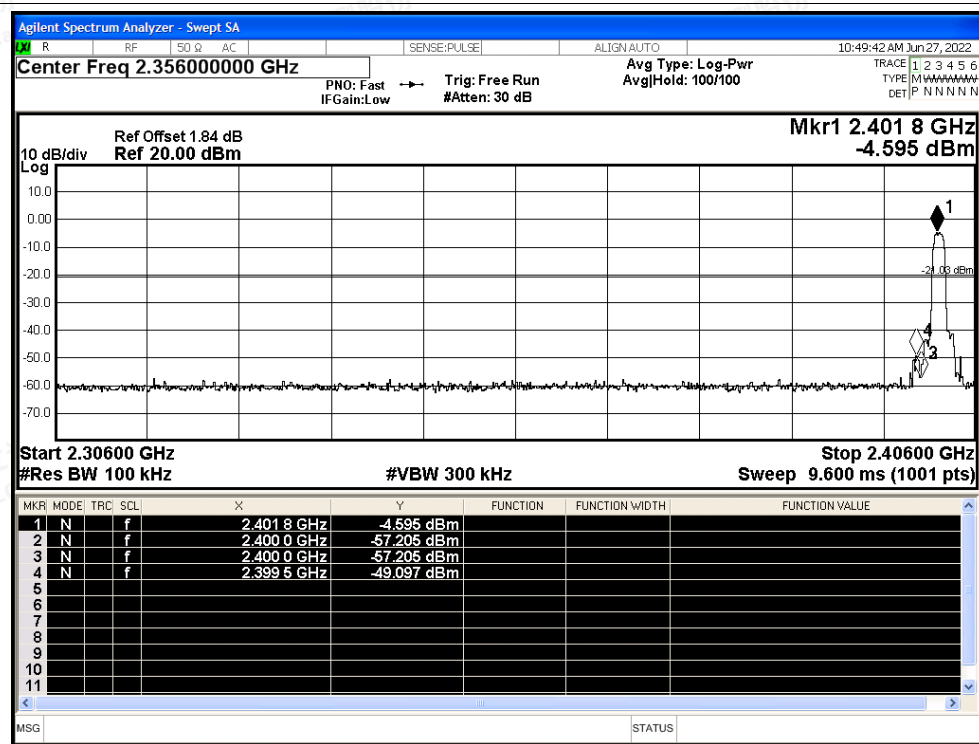
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

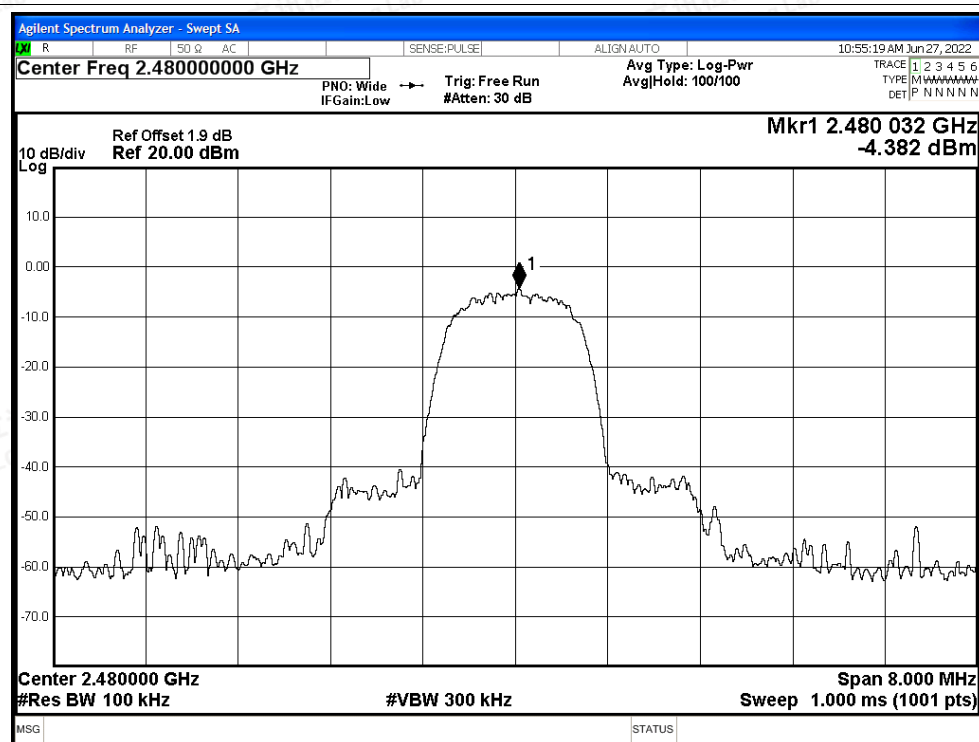


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

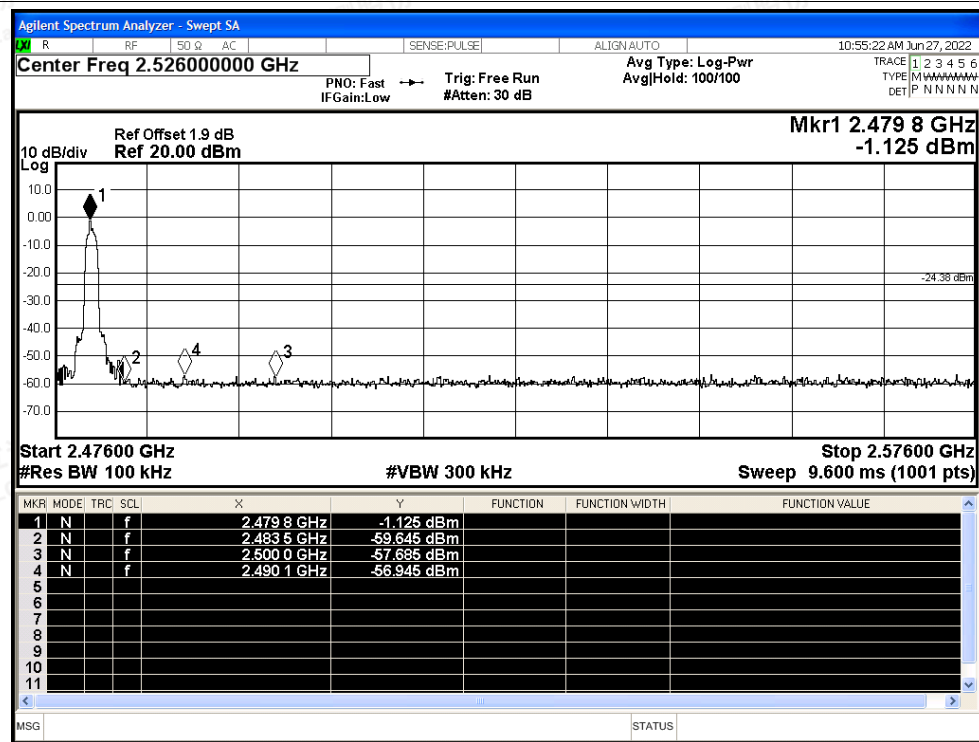




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.24	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.38	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.99	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.13	-20	Pass

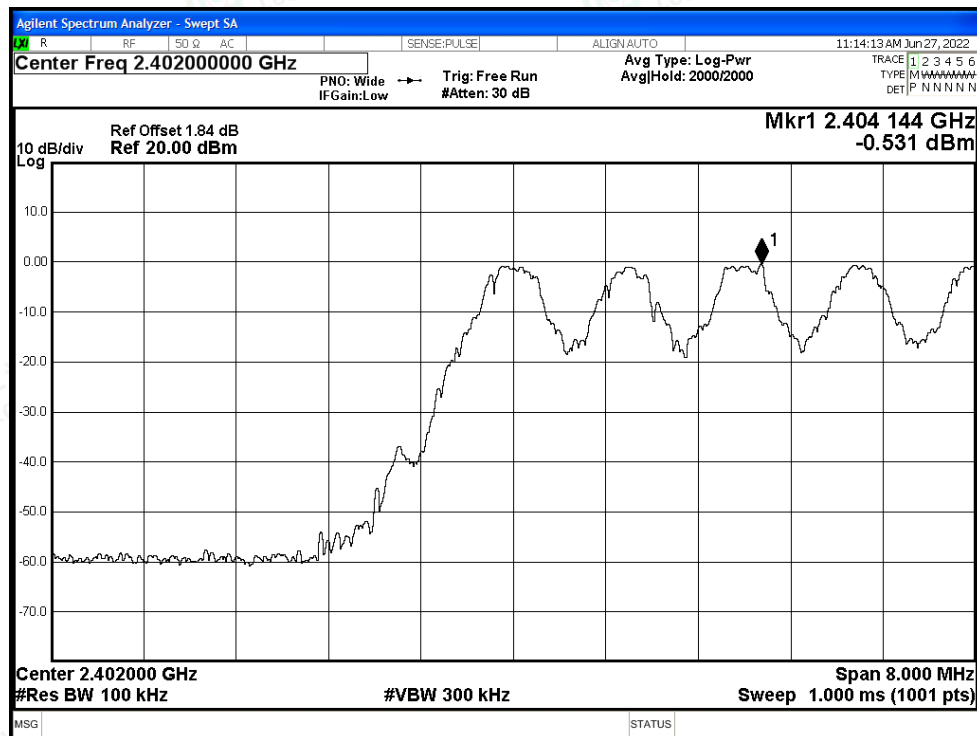


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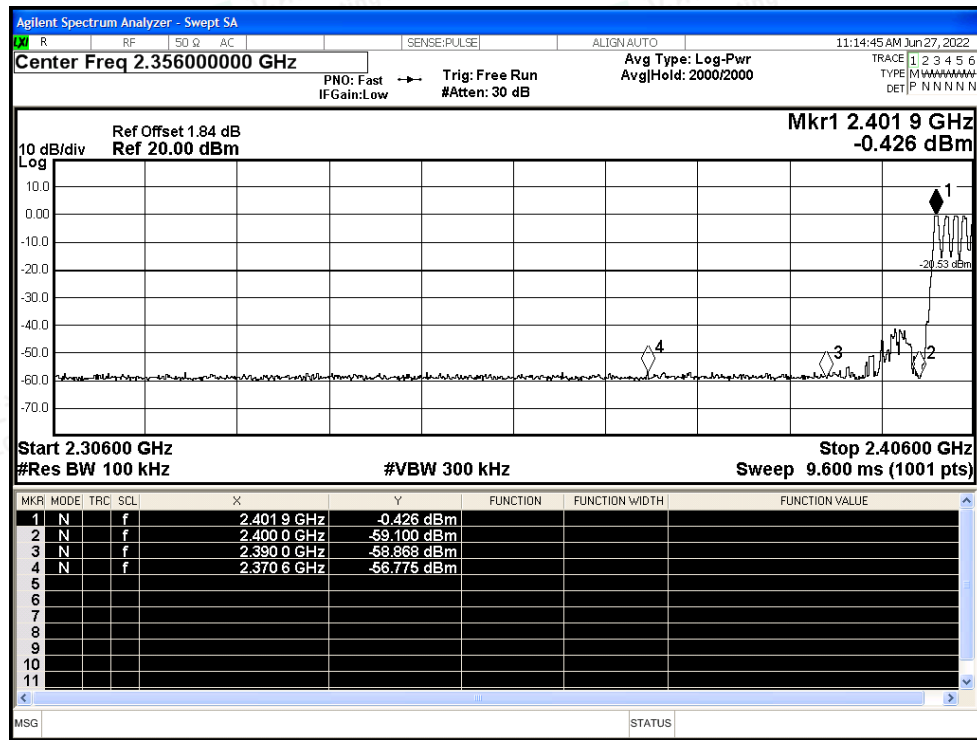


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

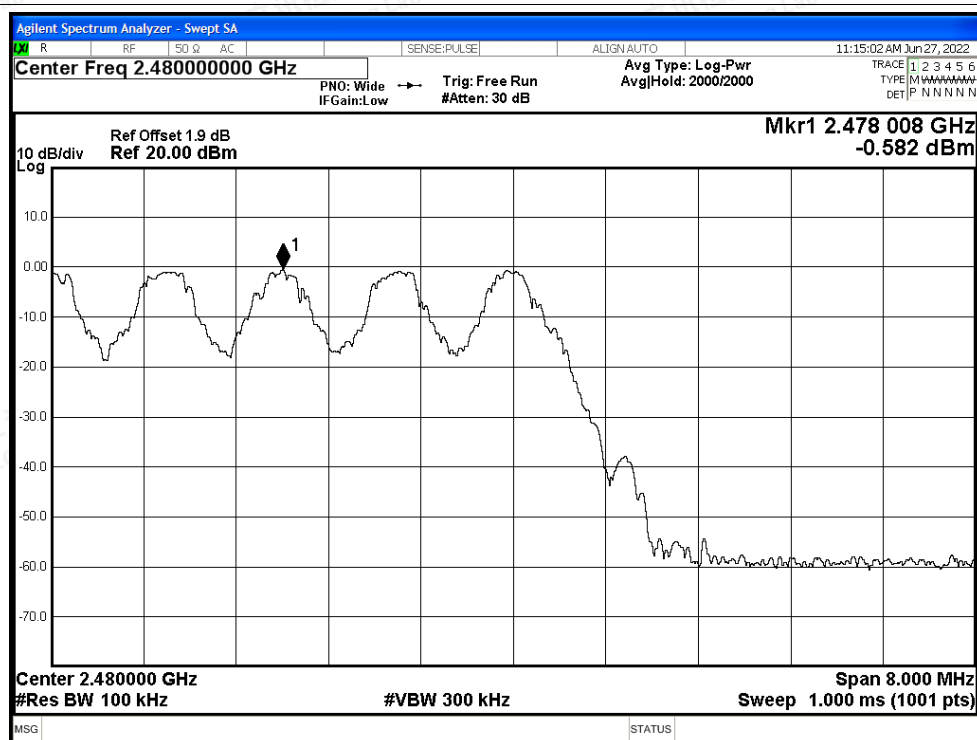
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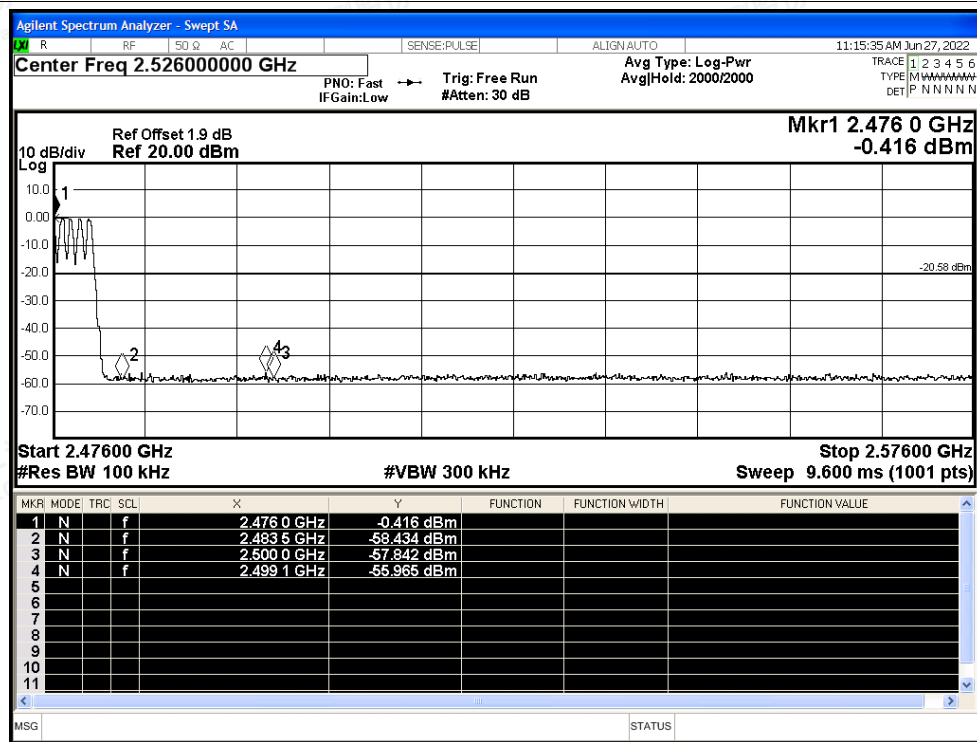
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

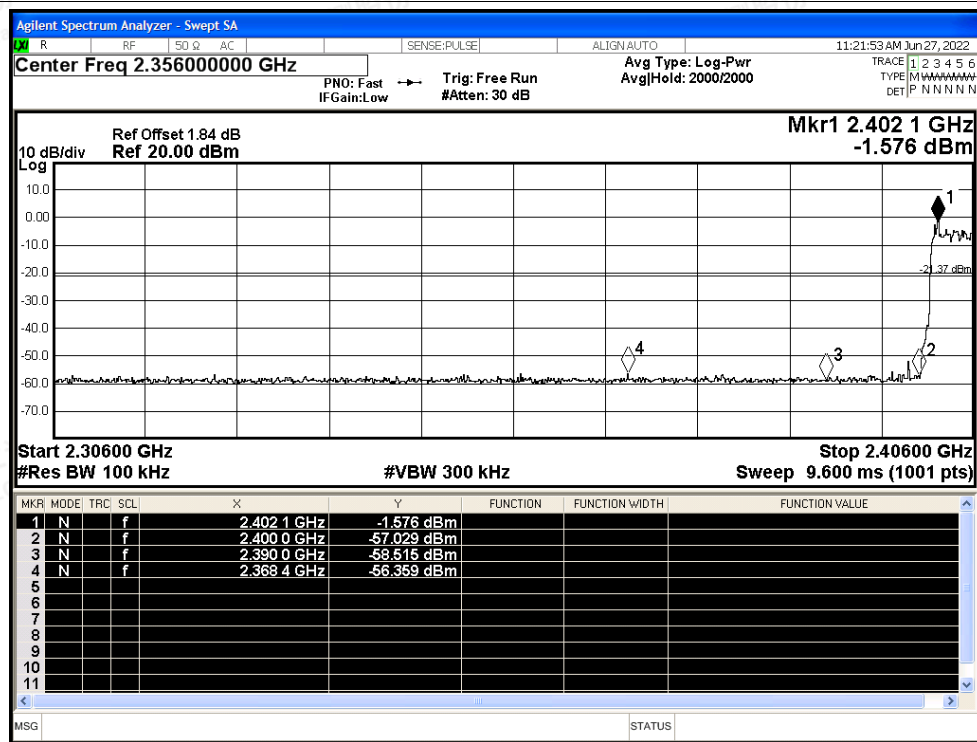




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

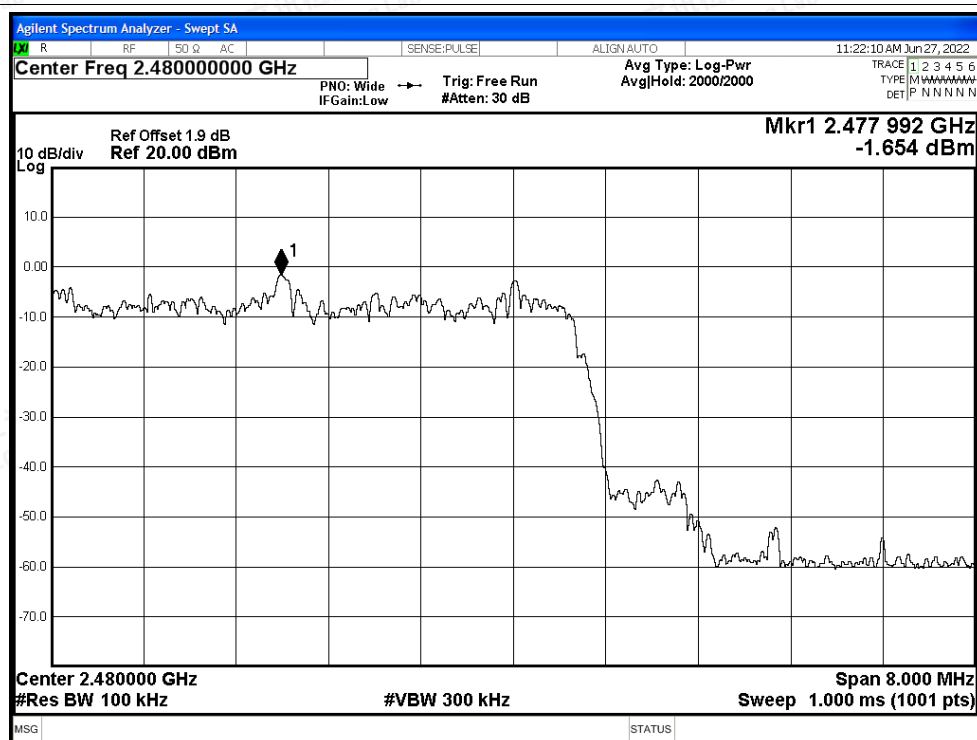


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

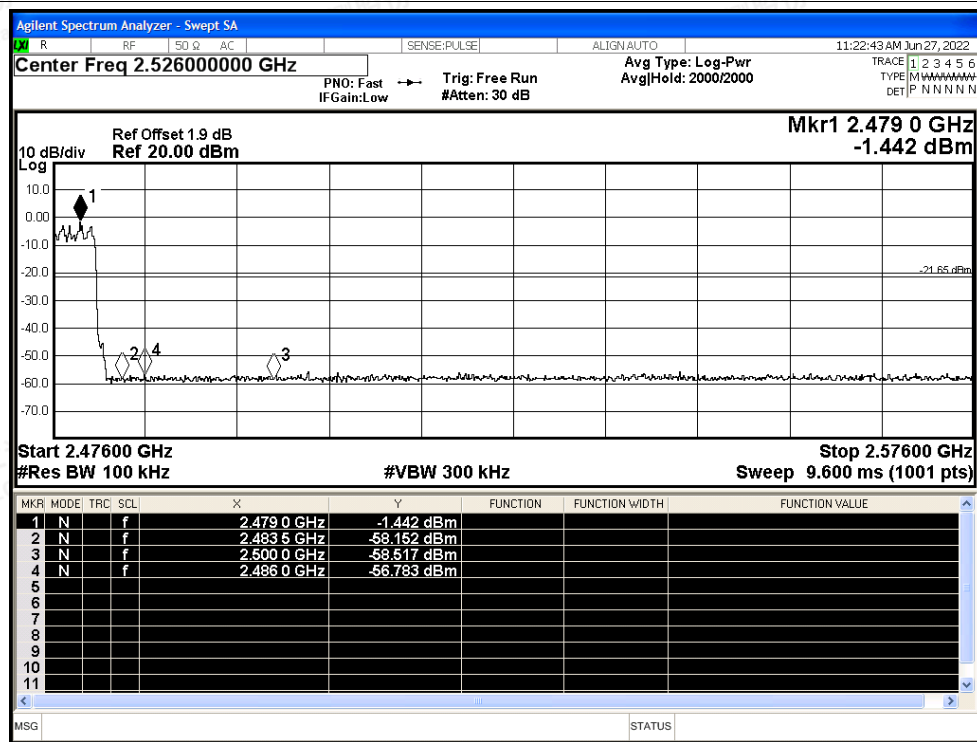




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-56.18	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.76	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.87	-20	Pass
NVNT	2-DH5	2402	Ant1	-50.36	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.26	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.99	-20	Pass

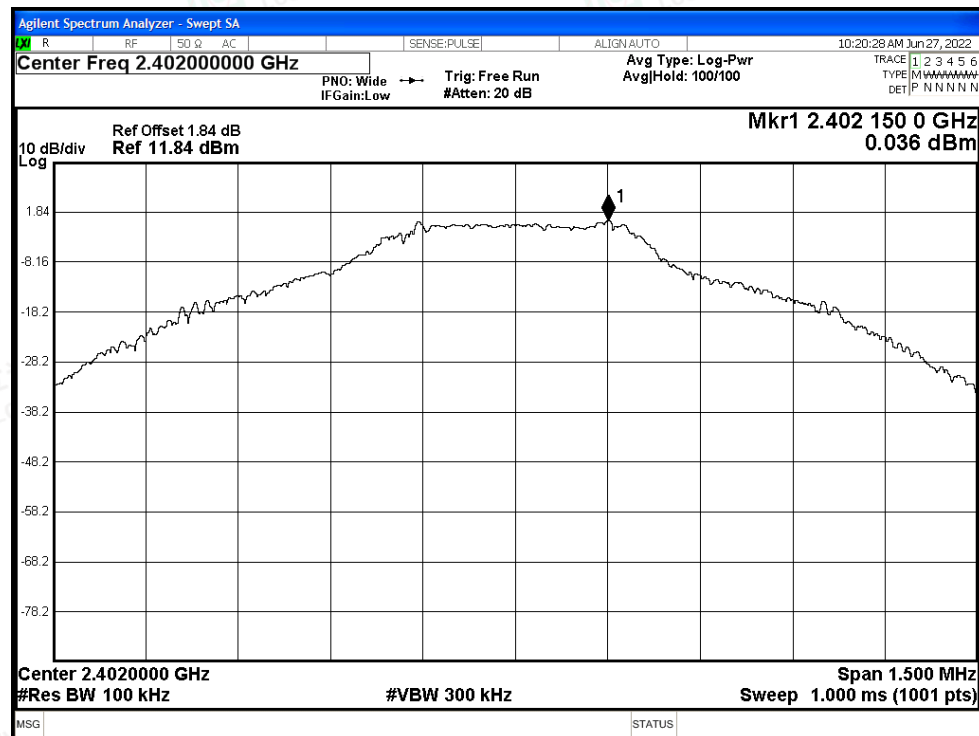


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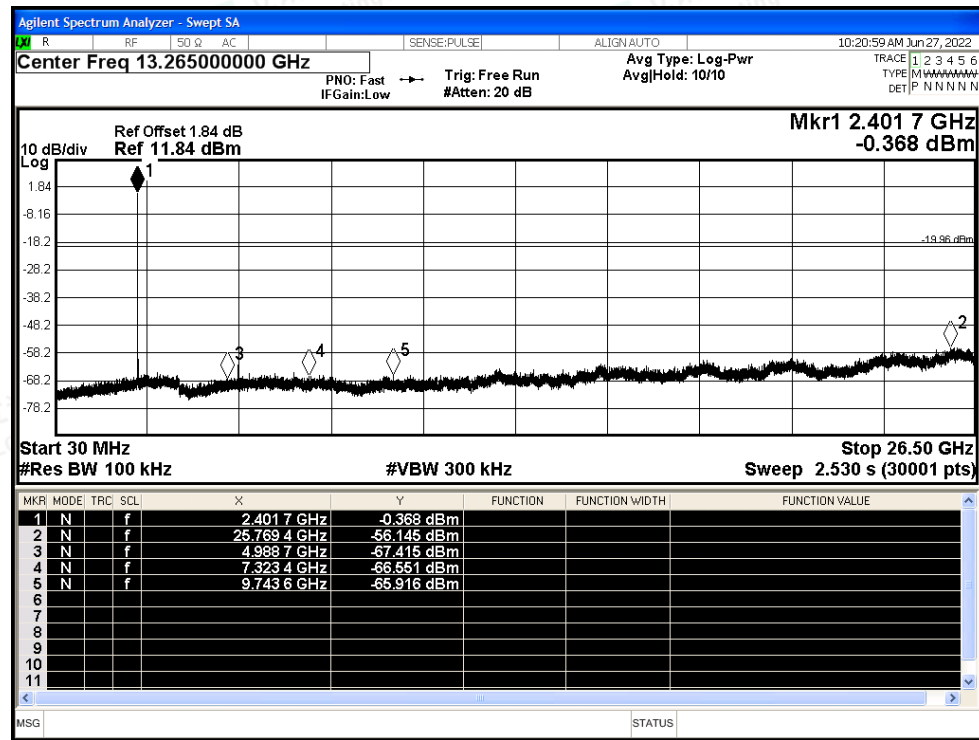


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

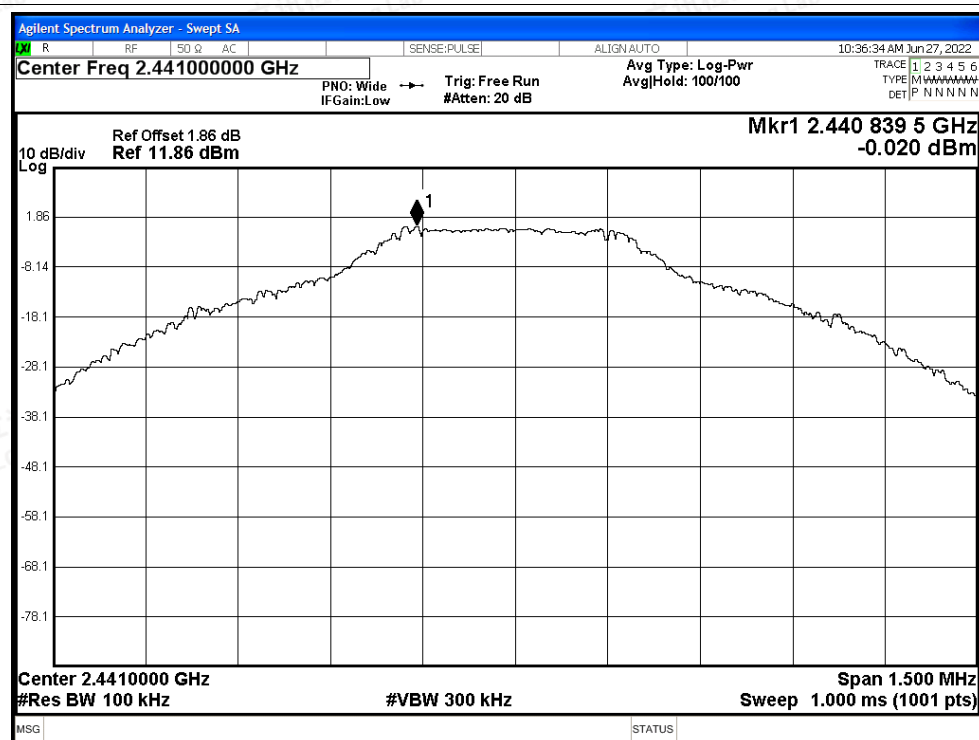


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

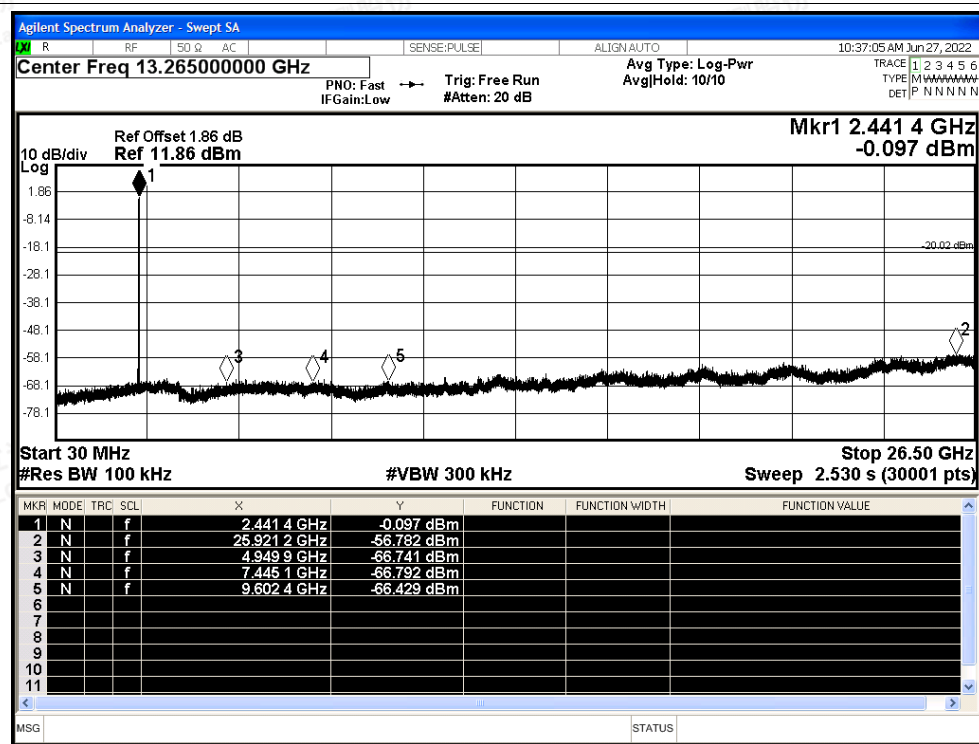




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

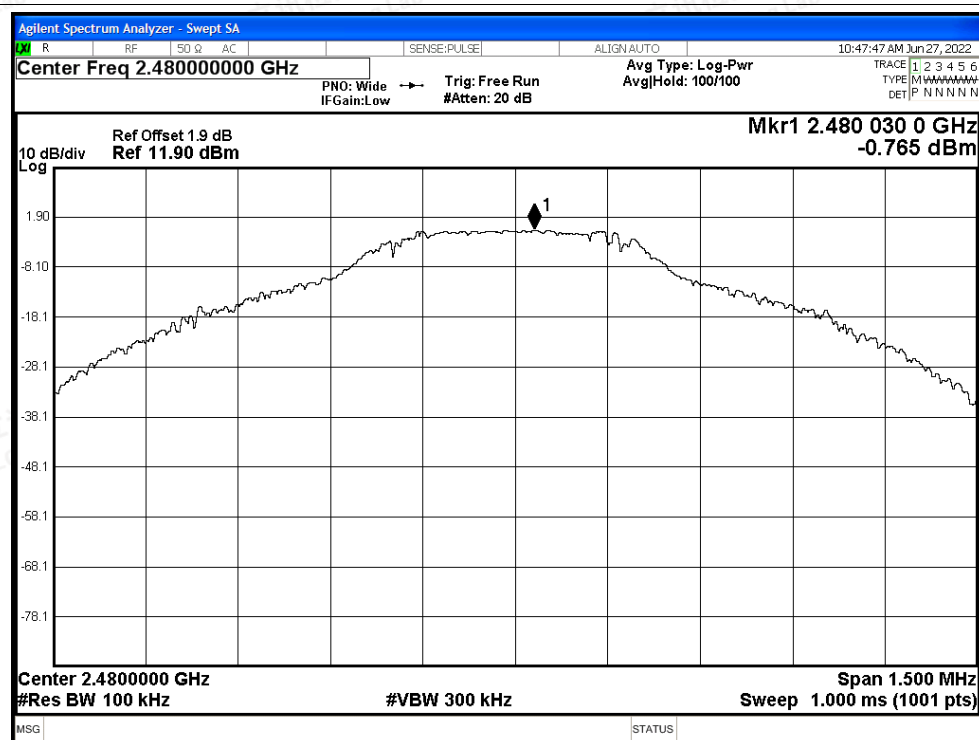


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

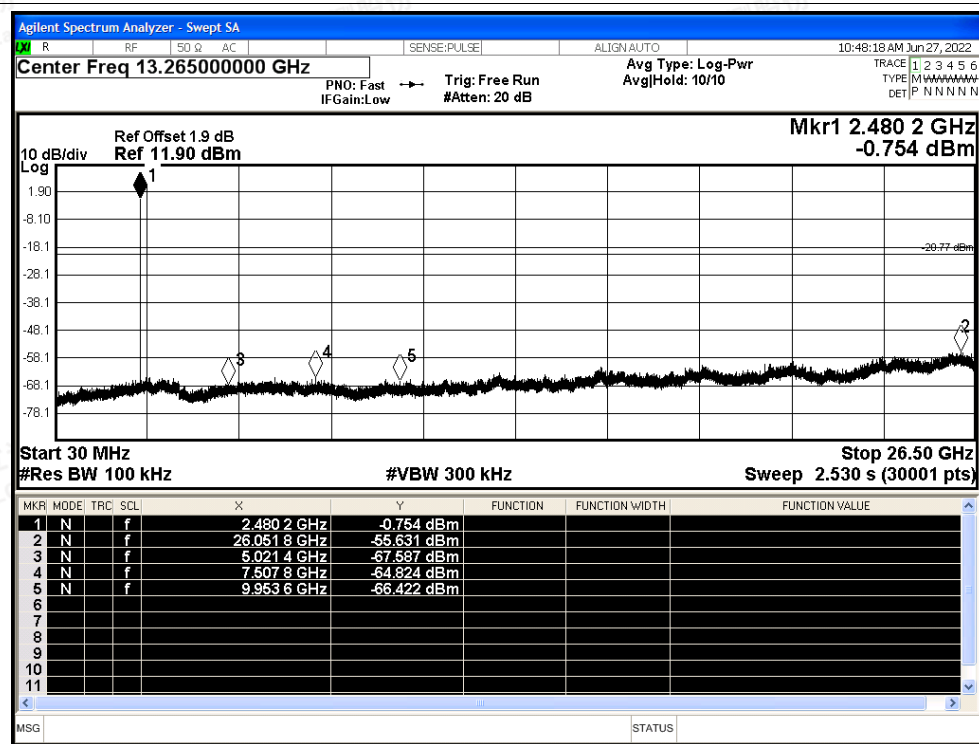




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

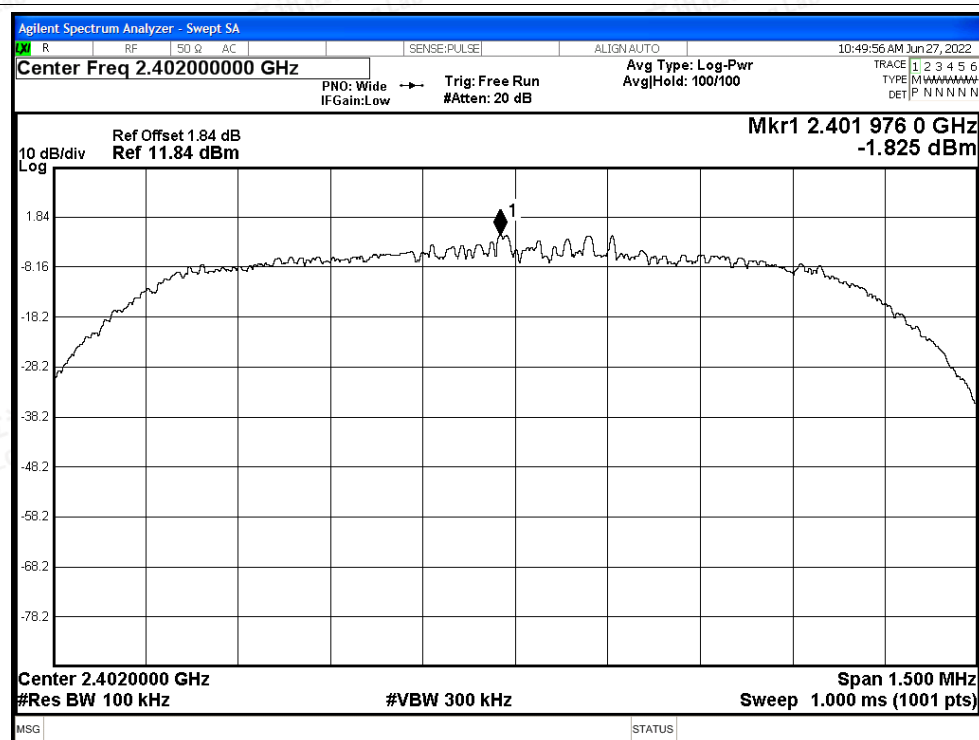


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

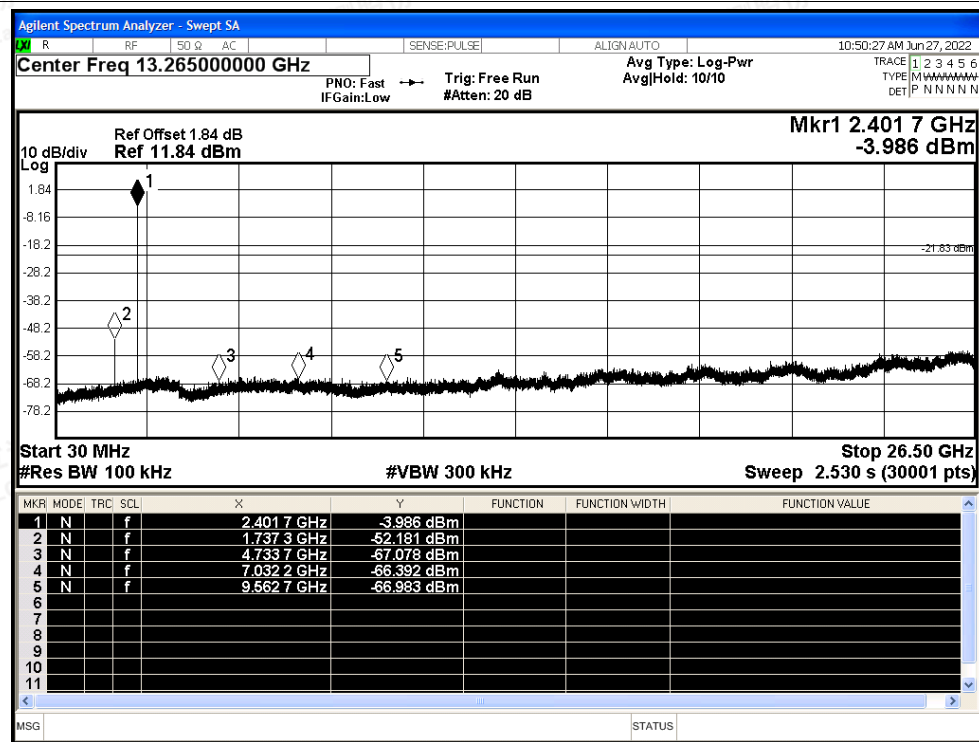




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

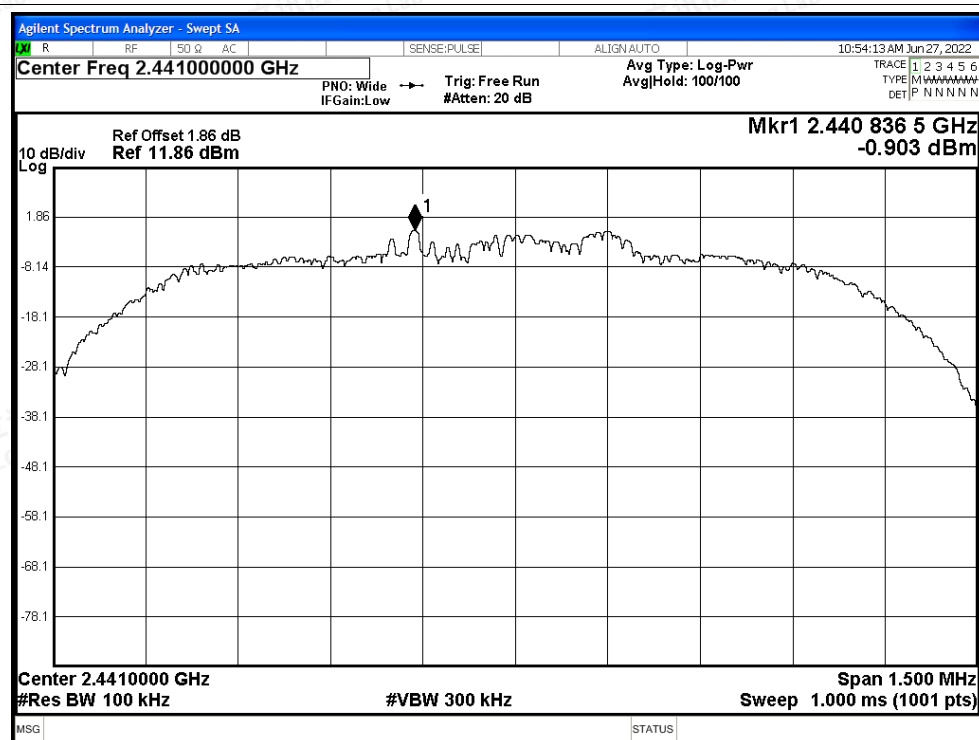


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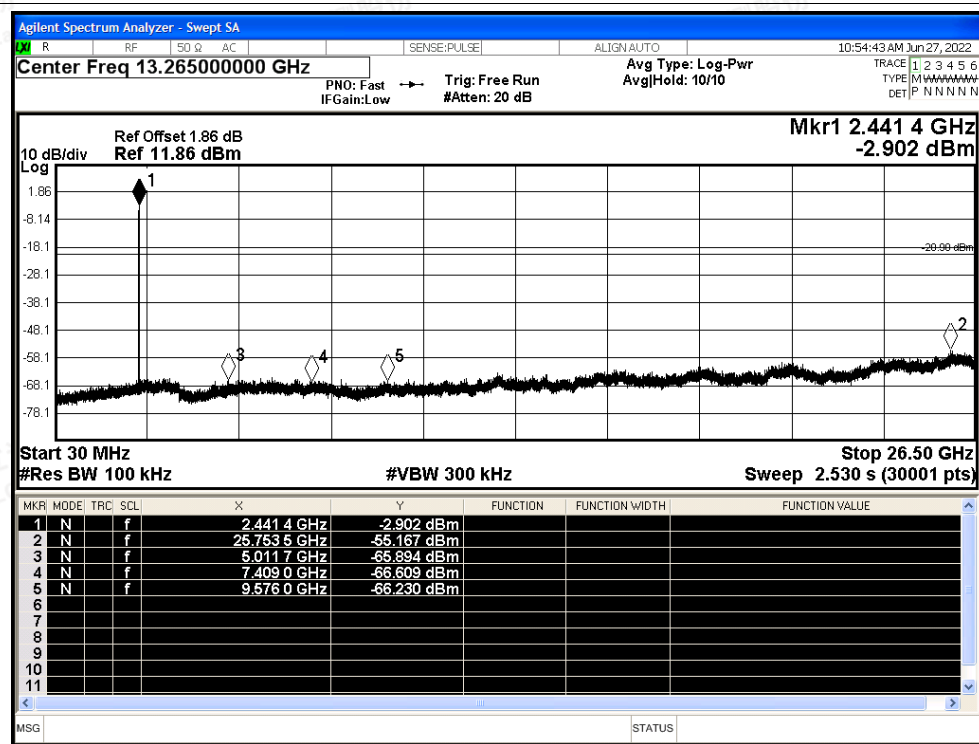




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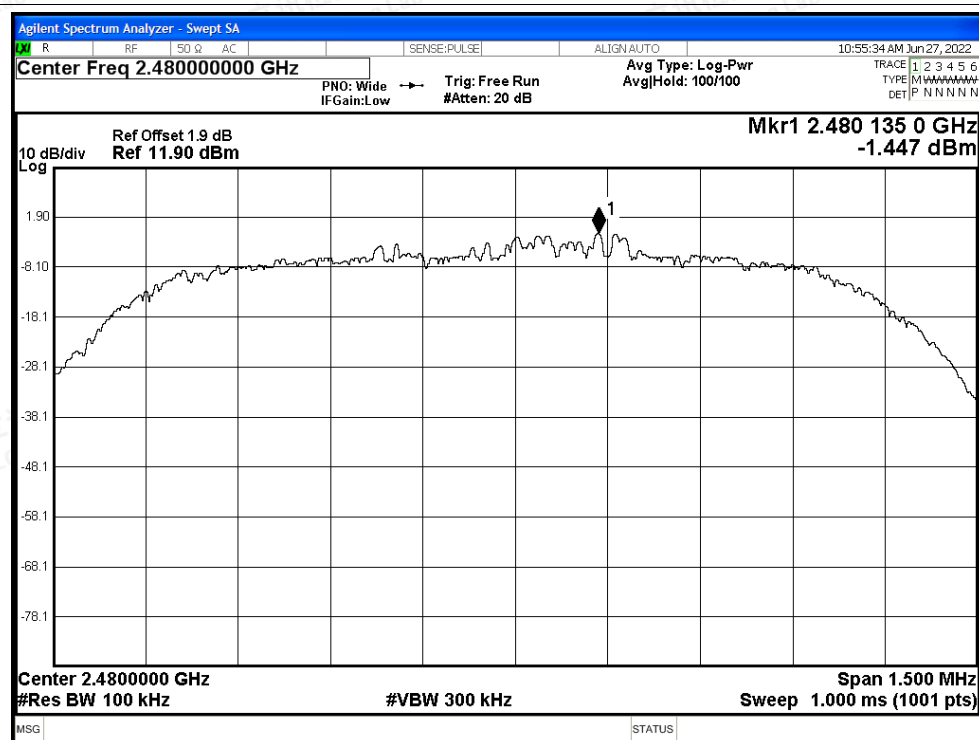


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

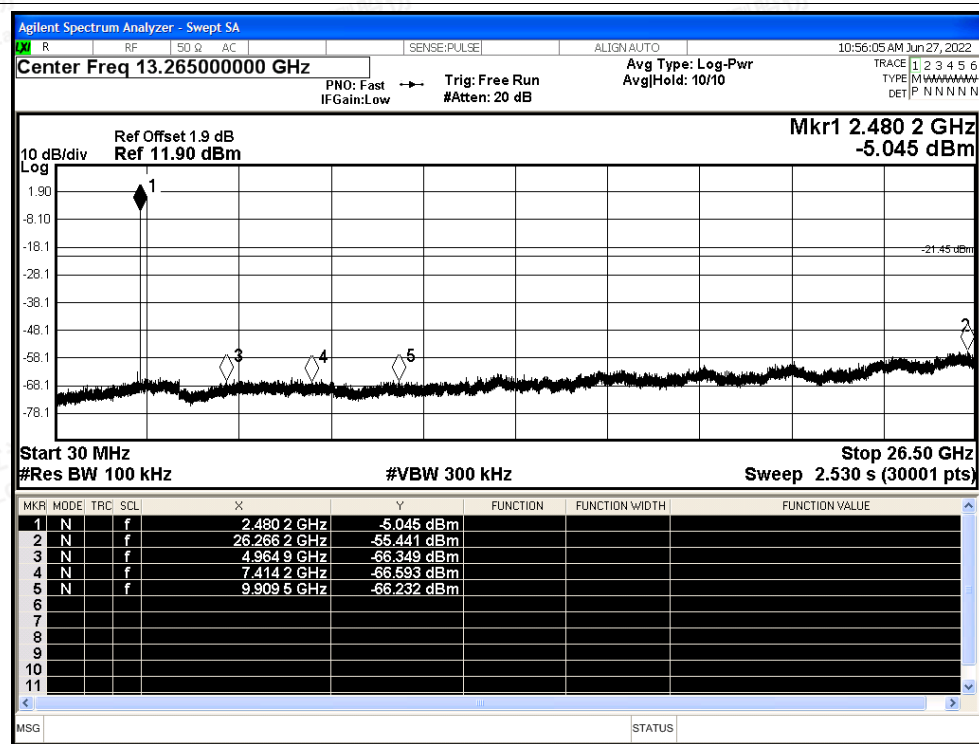




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

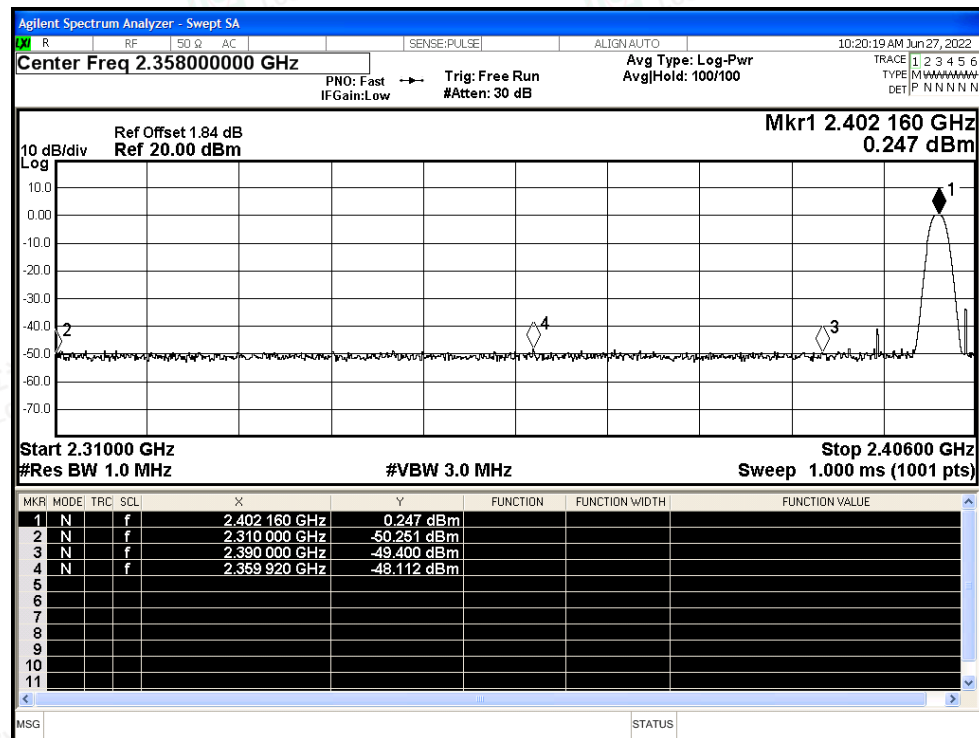
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.25	2	47.01	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.94	2	36.32	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2359.92	-48.11	2	49.15	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.84	-60.3	2	36.96	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.15	2	47.11	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.4	2	36.86	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.31	2	48.95	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-60.07	2	37.19	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.184	-38.37	2	58.89	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2496.472	-59.9	2	37.36	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.24	2	46.02	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.18	2	37.08	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.08	2	46.18	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.75	2	36.51	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2377.104	-48.5	2	48.76	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2383.152	-60.28	2	36.98	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.18	2	46.08	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.54	2	36.72	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.91	2	47.35	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-60.06	2	37.2	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.256	-39.81	2	57.45	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.28	-59.88	2	37.38	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.46	2	45.8	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60.09	2	37.17	Average	54	Pass



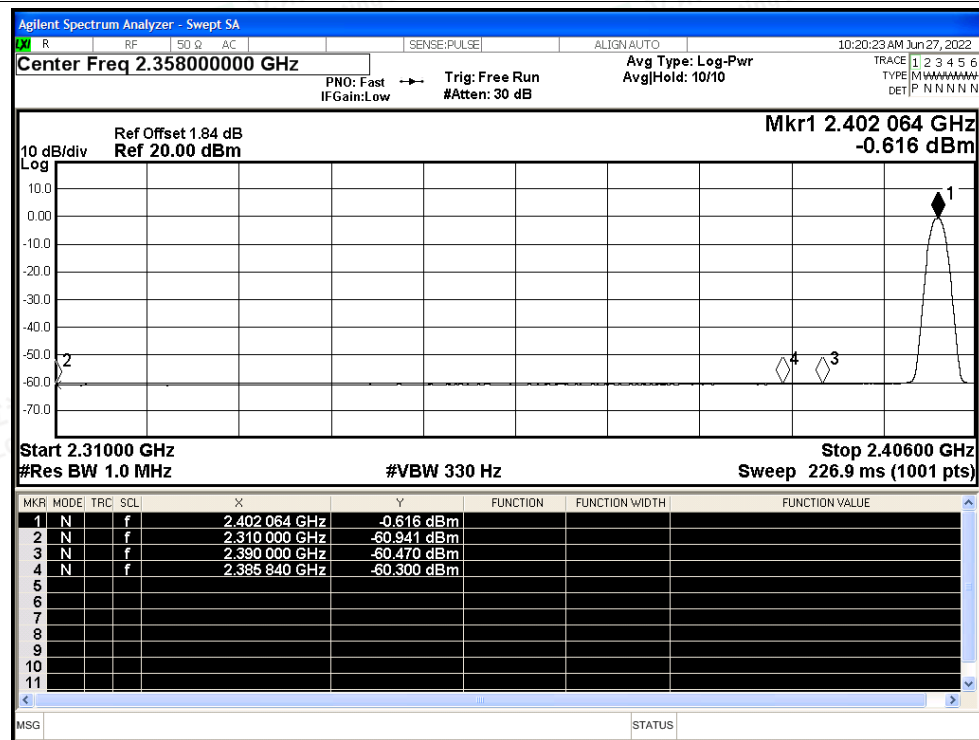


Test Graphs

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

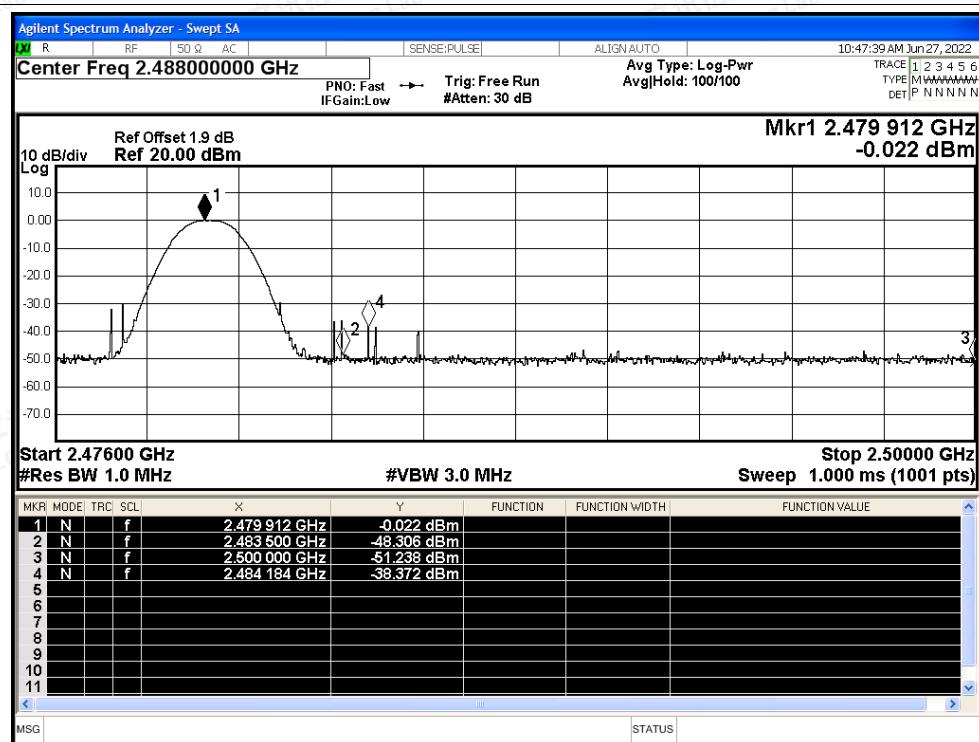


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

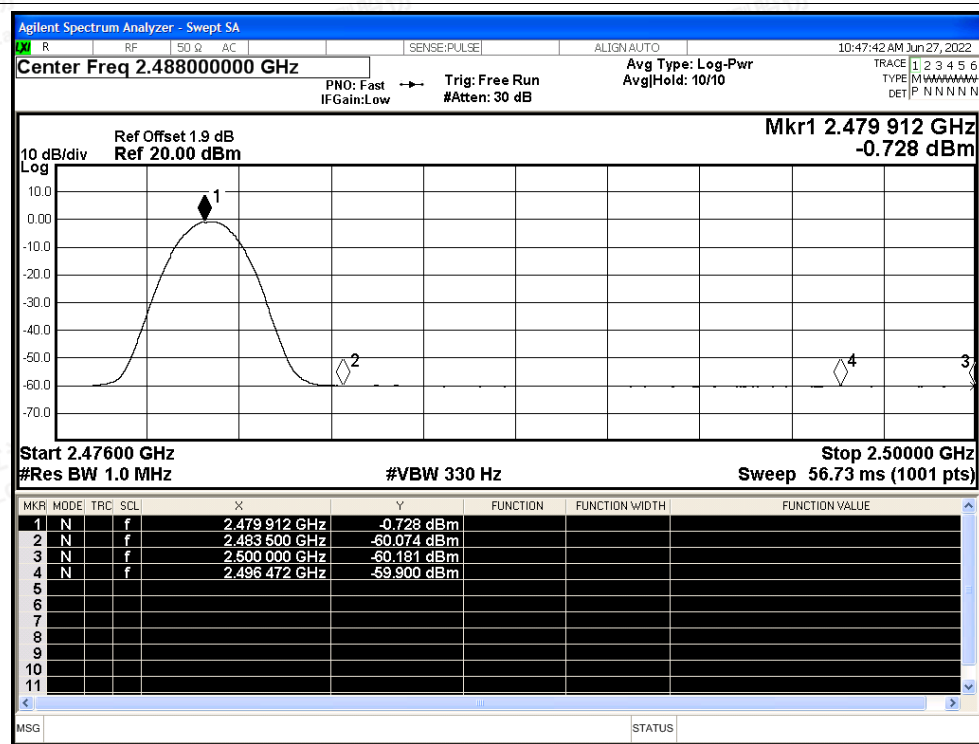




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

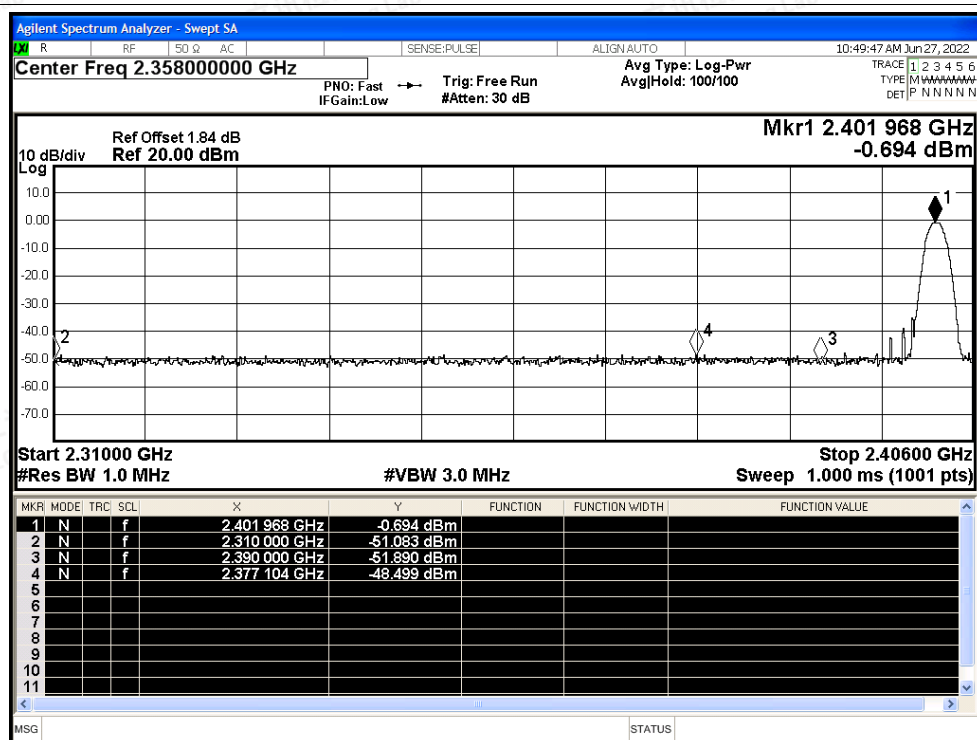


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

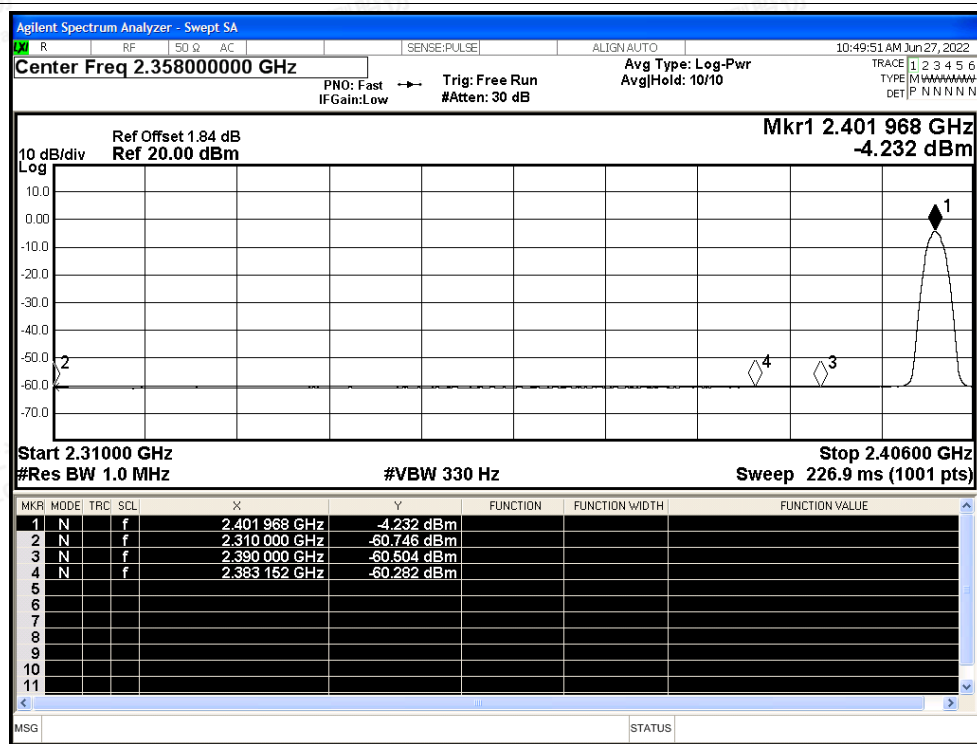




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

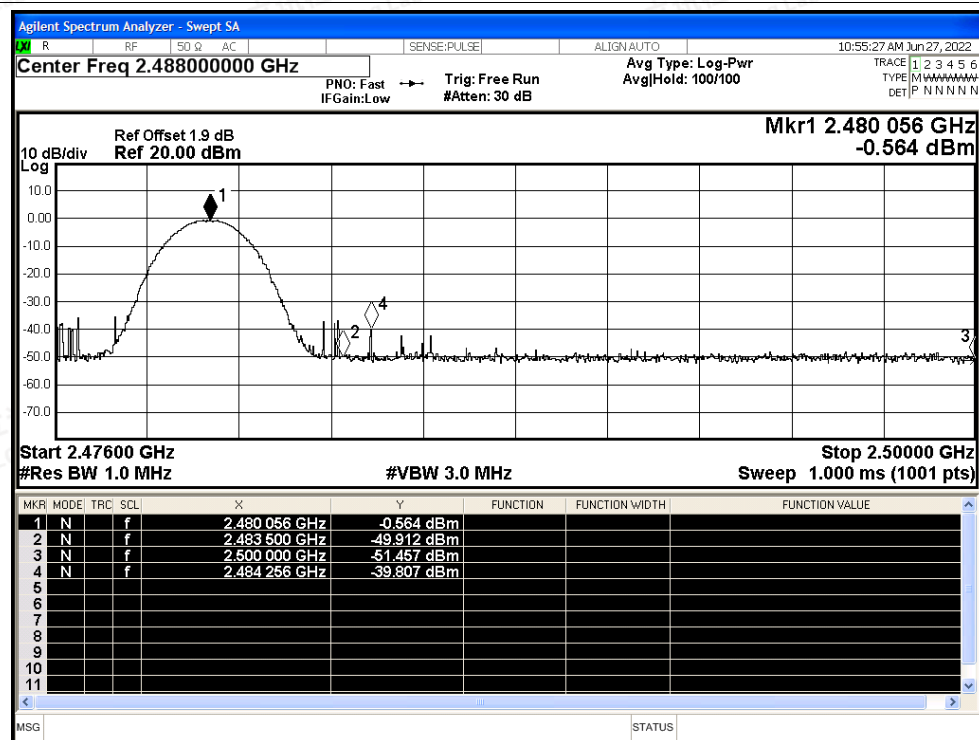


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

