



## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: Bone Conduction Bluetooth Headset

Test Model: B56S

#### 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	0.959	0	Pass
NVNT	1-DH5	2441	Ant1	0.949	0	Pass
NVNT	1-DH5	2480	Ant1	0.945	0	Pass
NVNT	2-DH5	2402	Ant1	1.275	0	Pass
NVNT	2-DH5	2441	Ant1	1.311	0	Pass
NVNT	2-DH5	2480	Ant1	1.277	0	Pass
NVNT	3-DH5	2402	Ant1	1.248	0	Pass
NVNT	3-DH5	2441	Ant1	1.291	0	Pass
NVNT	3-DH5	2480	Ant1	1.321	0	Pass

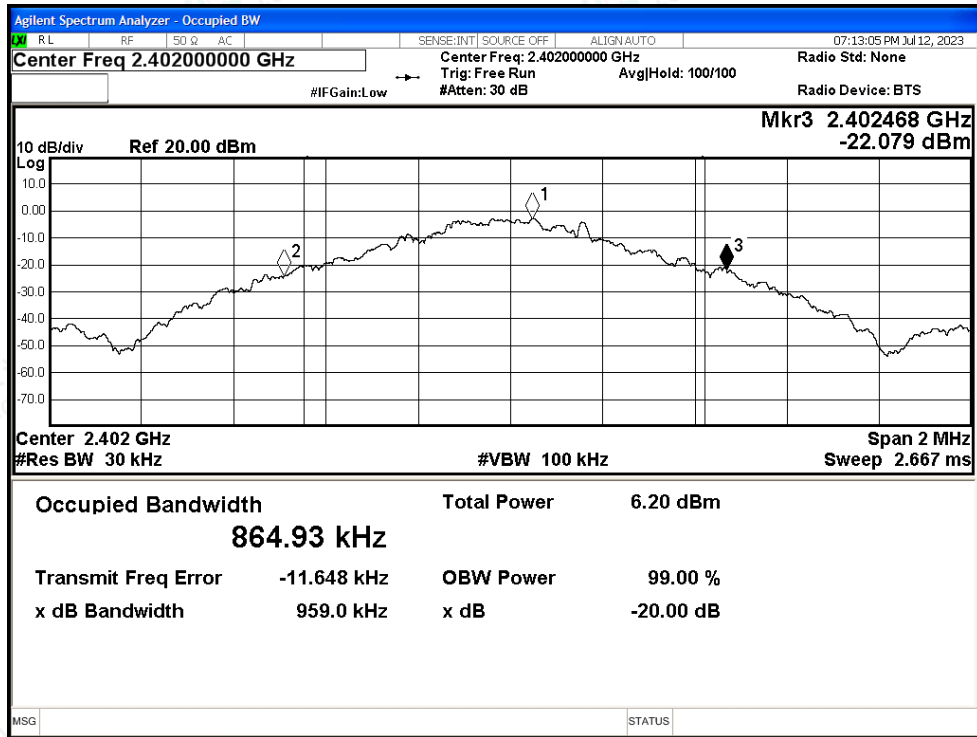


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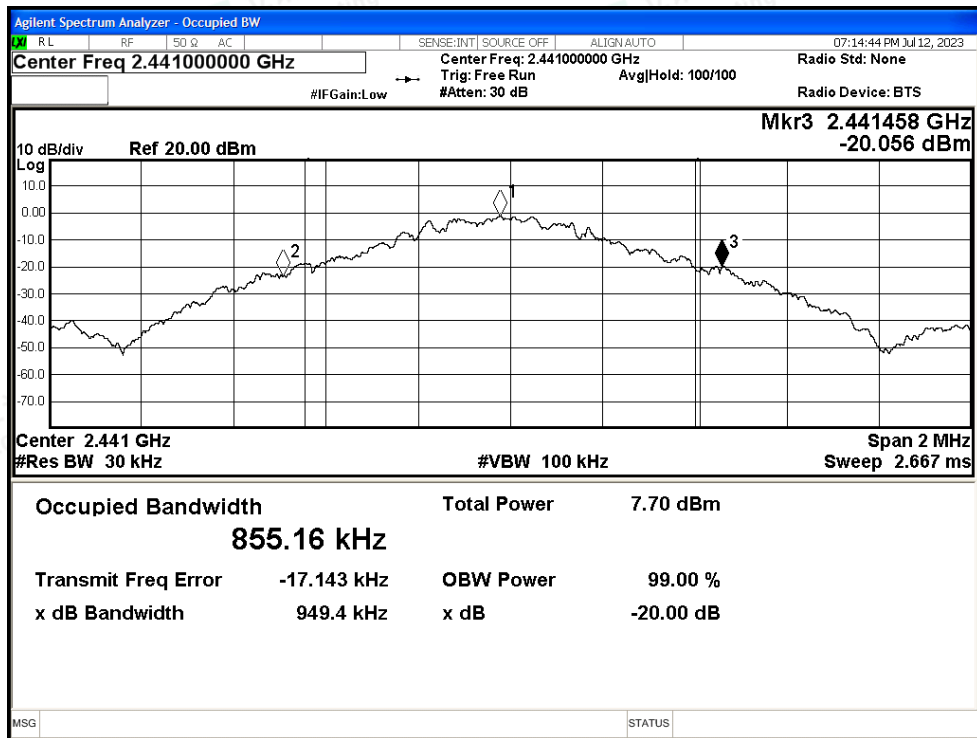


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

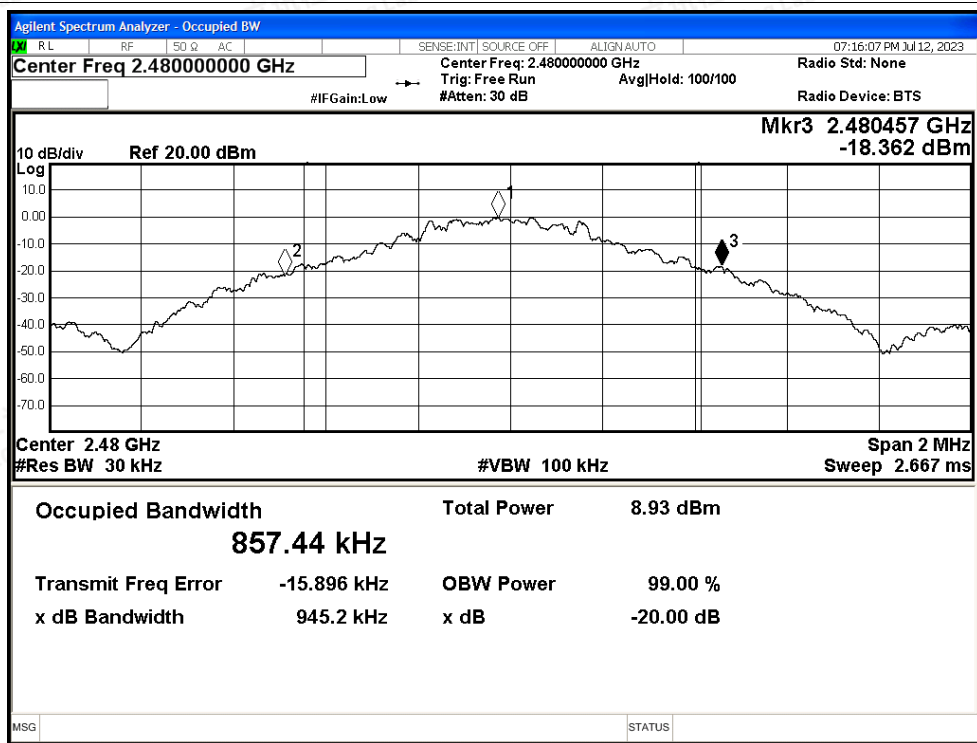


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

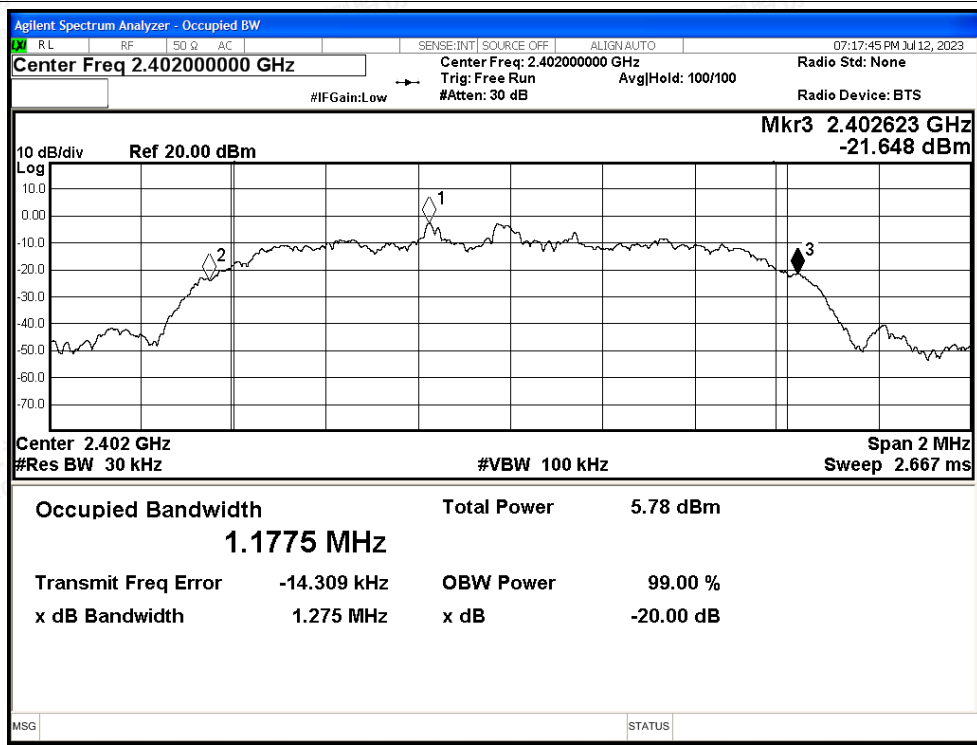




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

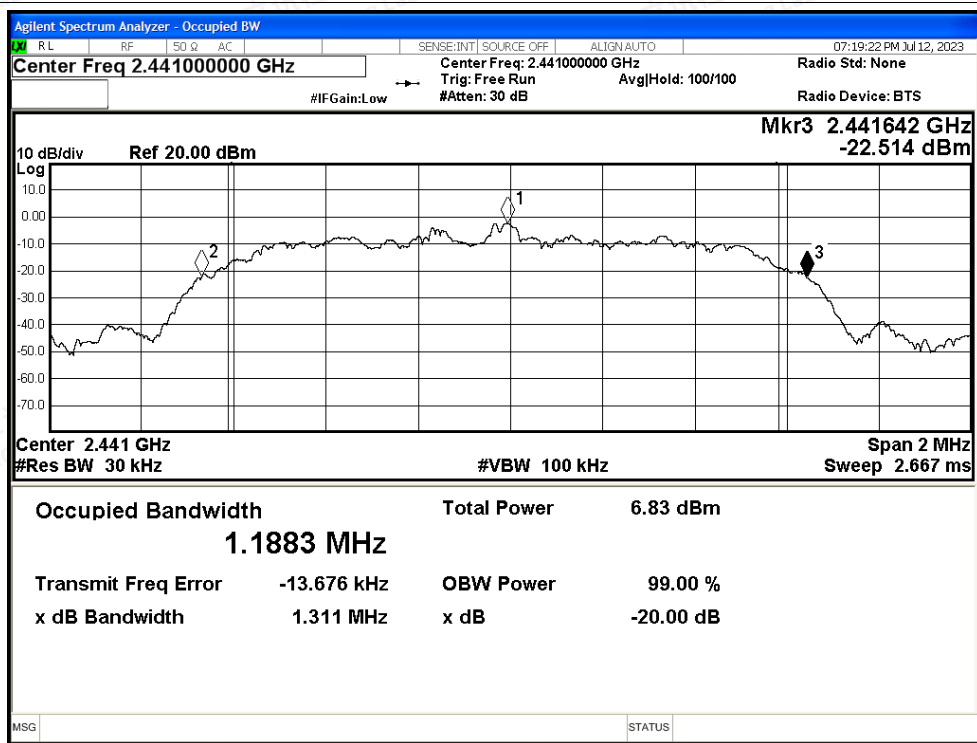


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

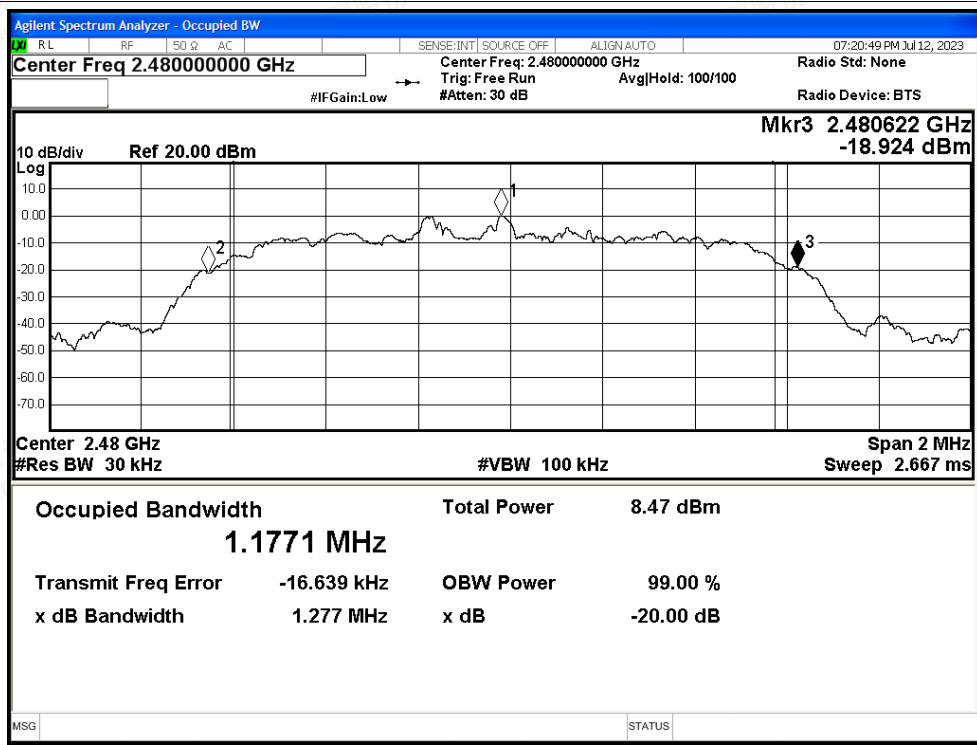




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

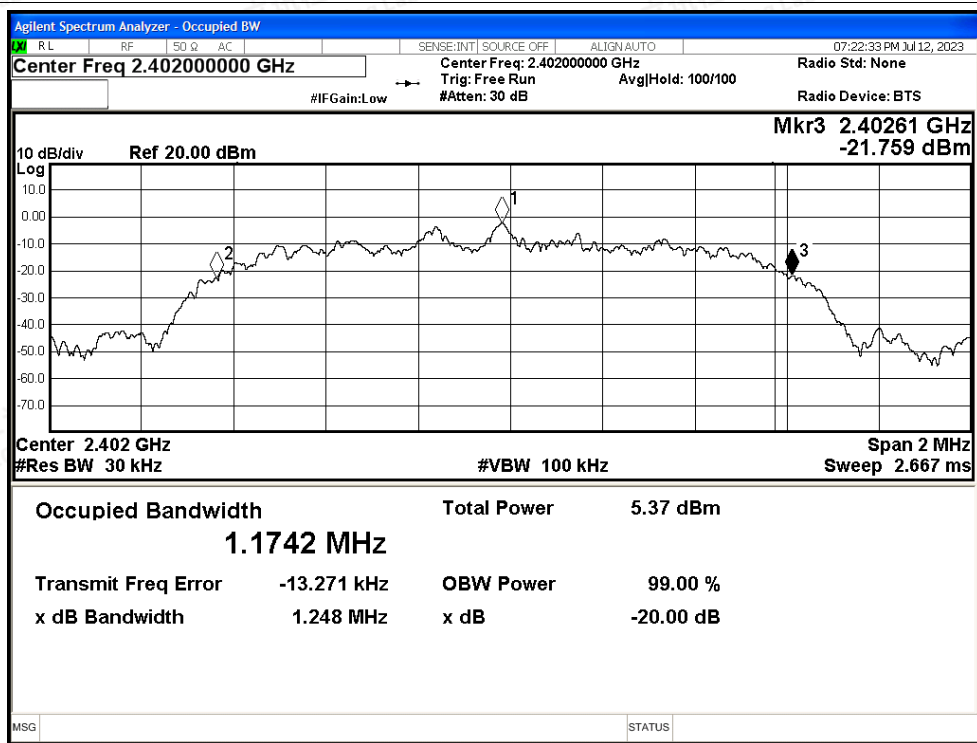


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

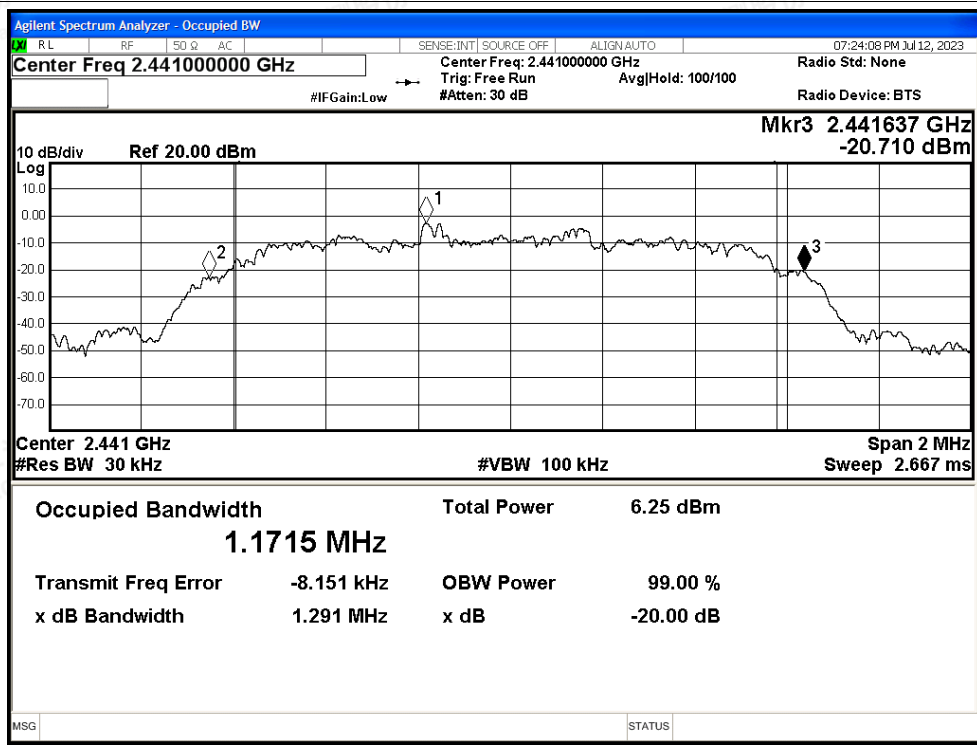


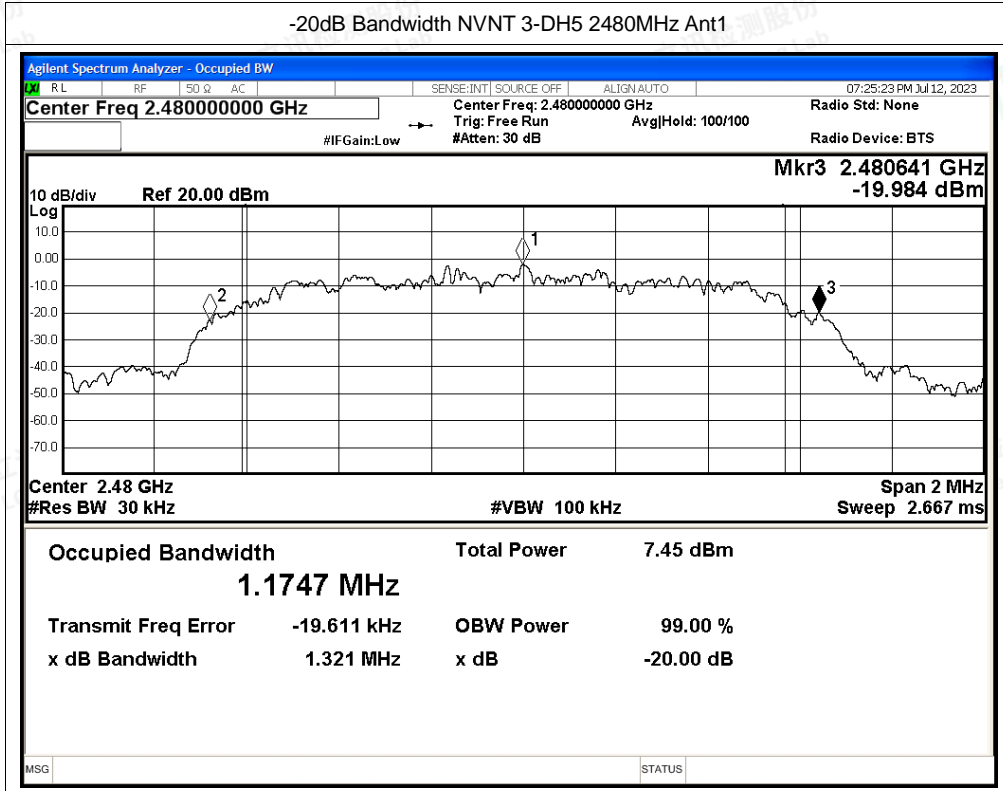


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







## A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.03	21	Pass
NVNT	1-DH5	2441	Ant1	1.27	21	Pass
NVNT	1-DH5	2480	Ant1	2.49	21	Pass
NVNT	2-DH5	2402	Ant1	0.80	21	Pass
NVNT	2-DH5	2441	Ant1	2.12	21	Pass
NVNT	2-DH5	2480	Ant1	1.01	21	Pass
NVNT	3-DH5	2402	Ant1	0.80	21	Pass
NVNT	3-DH5	2441	Ant1	2.29	21	Pass
NVNT	3-DH5	2480	Ant1	1.05	21	Pass

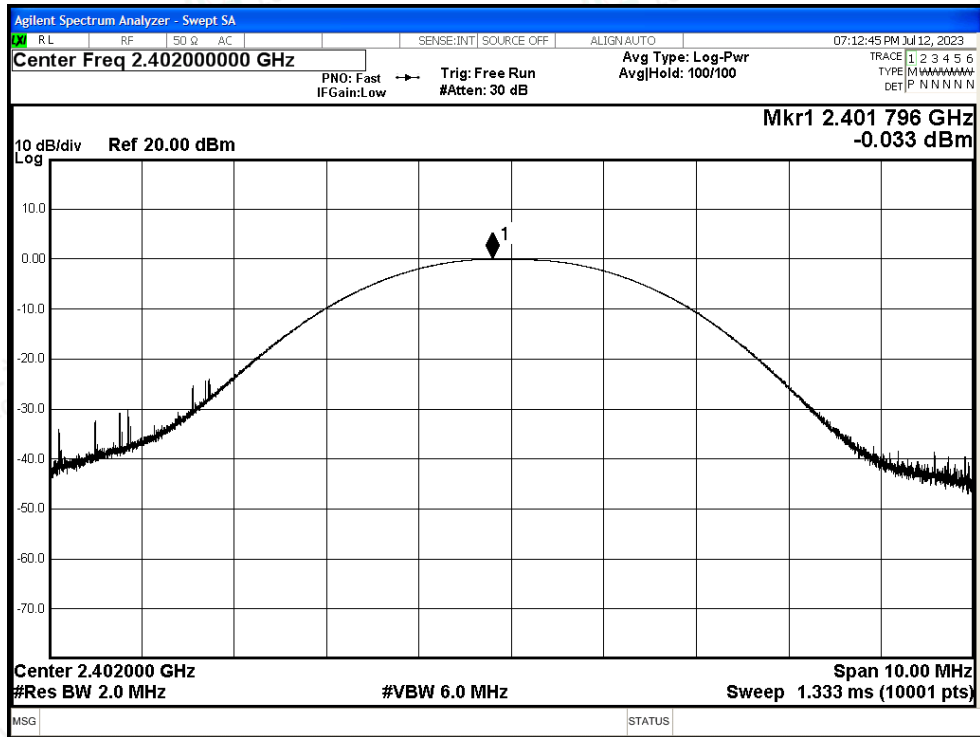




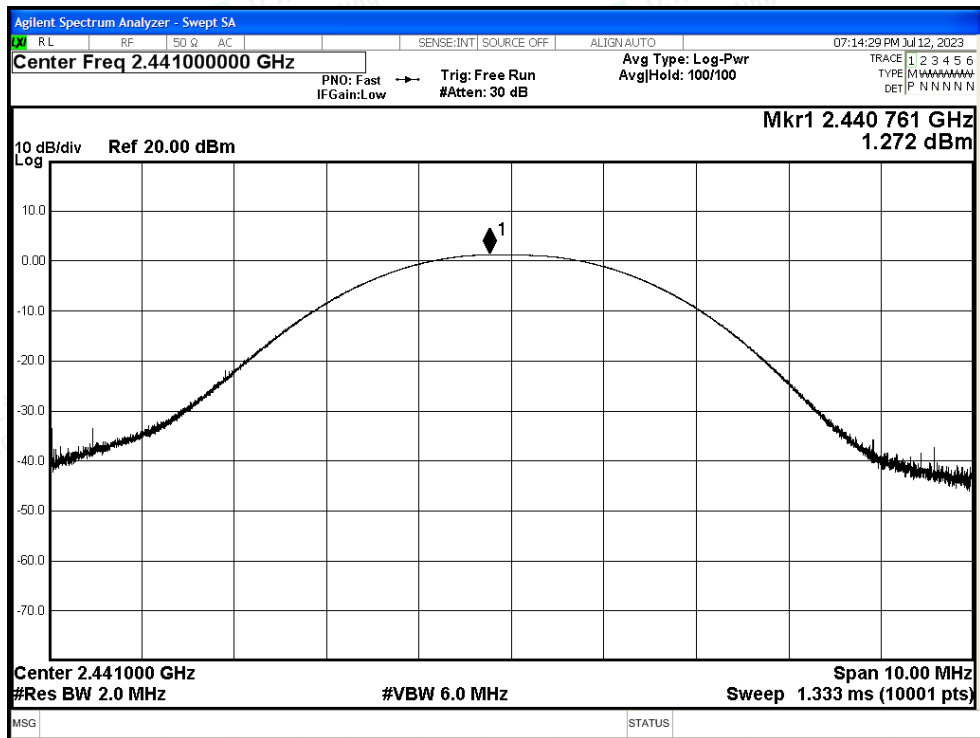


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

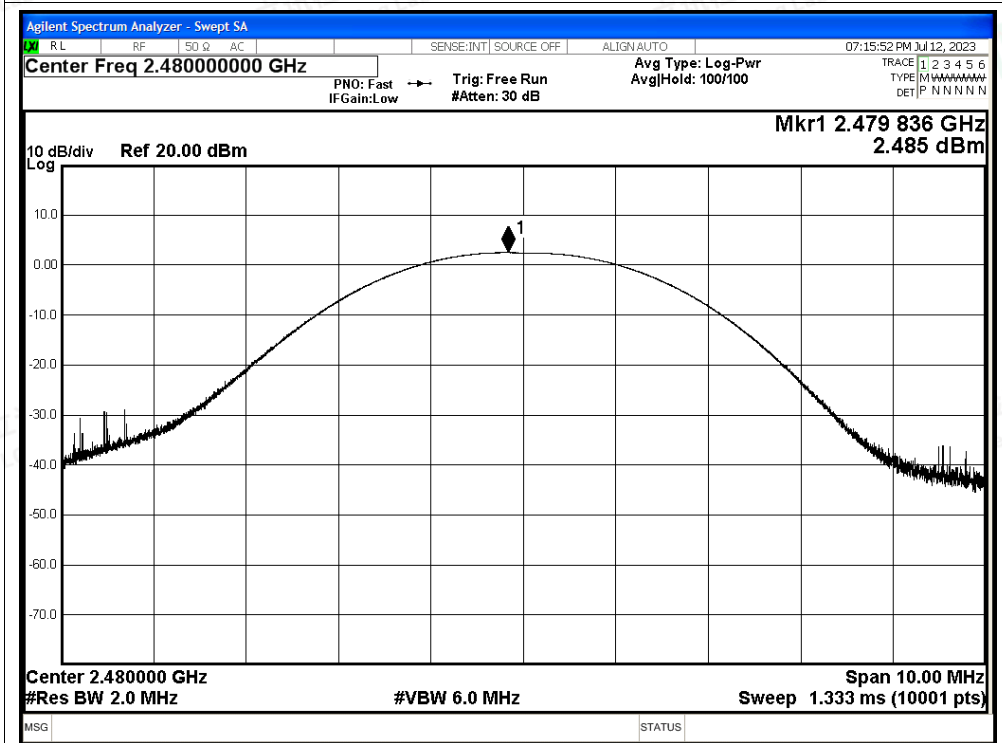


Power NVNT 1-DH5 2441MHz Ant1

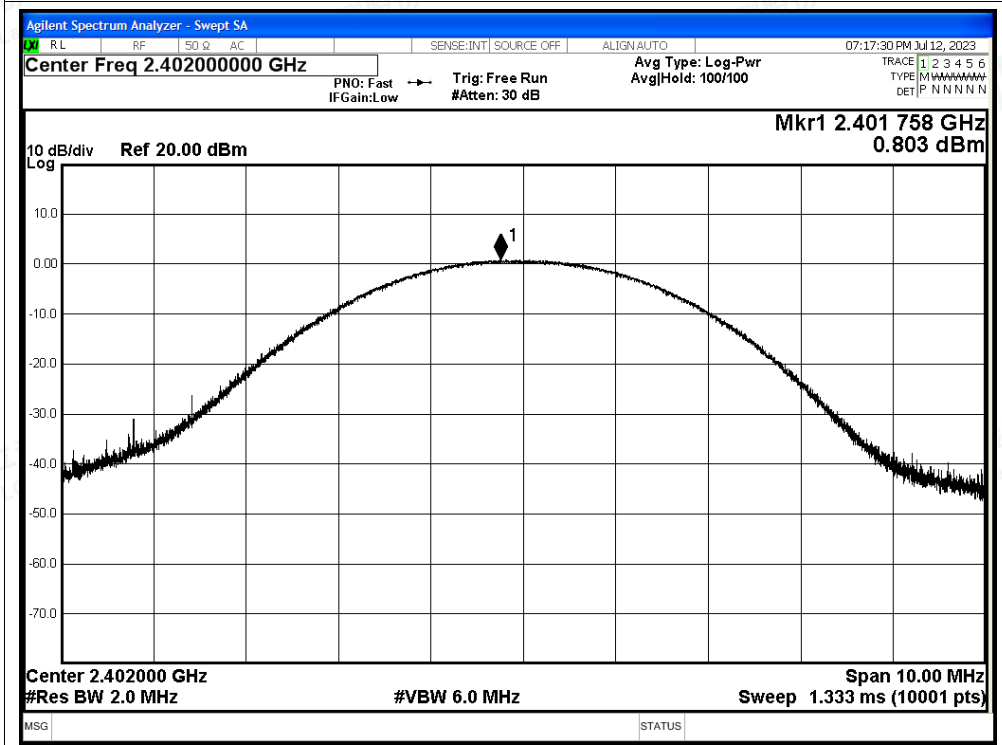




Power NVNT 1-DH5 2480MHz Ant1

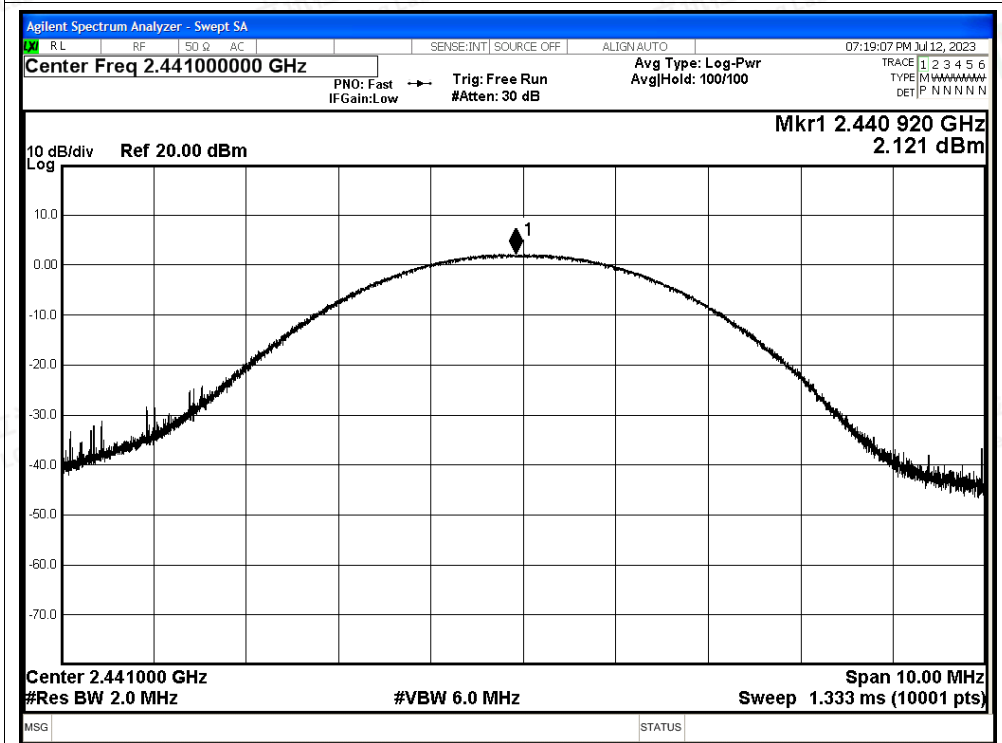


Power NVNT 2-DH5 2402MHz Ant1

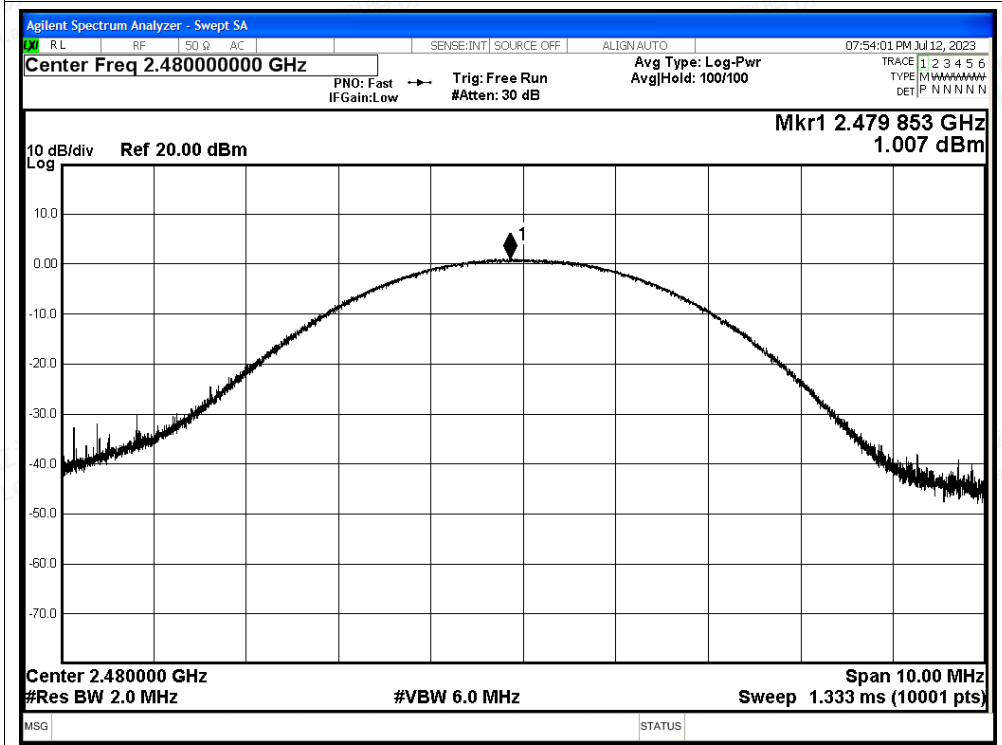


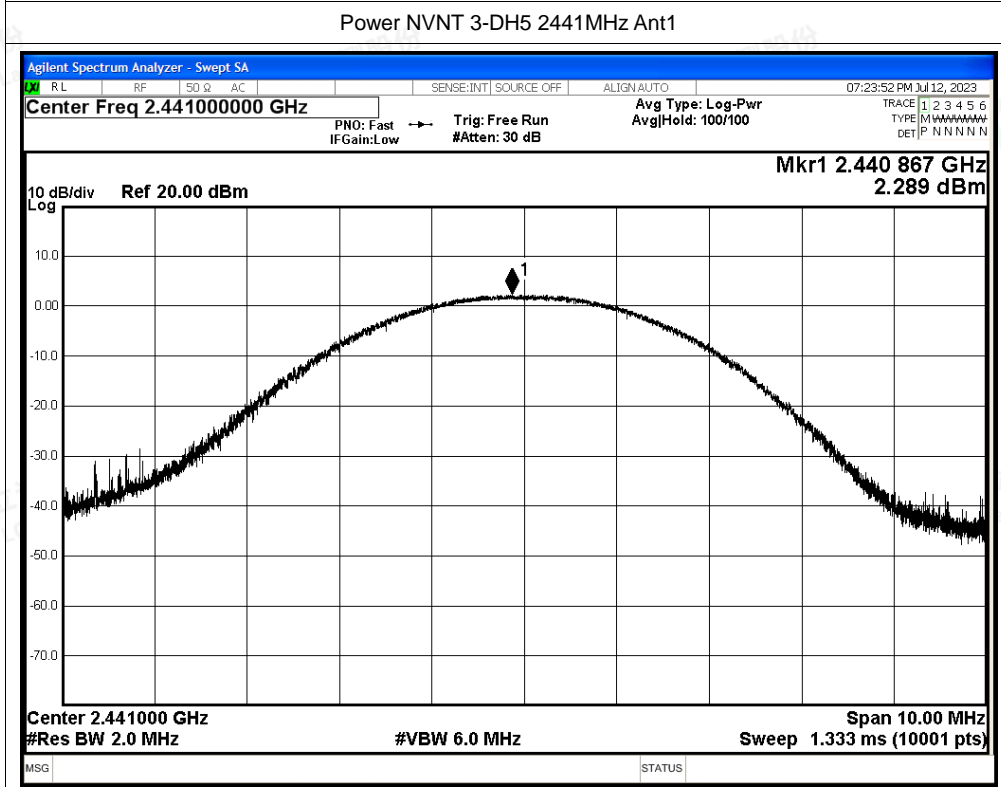
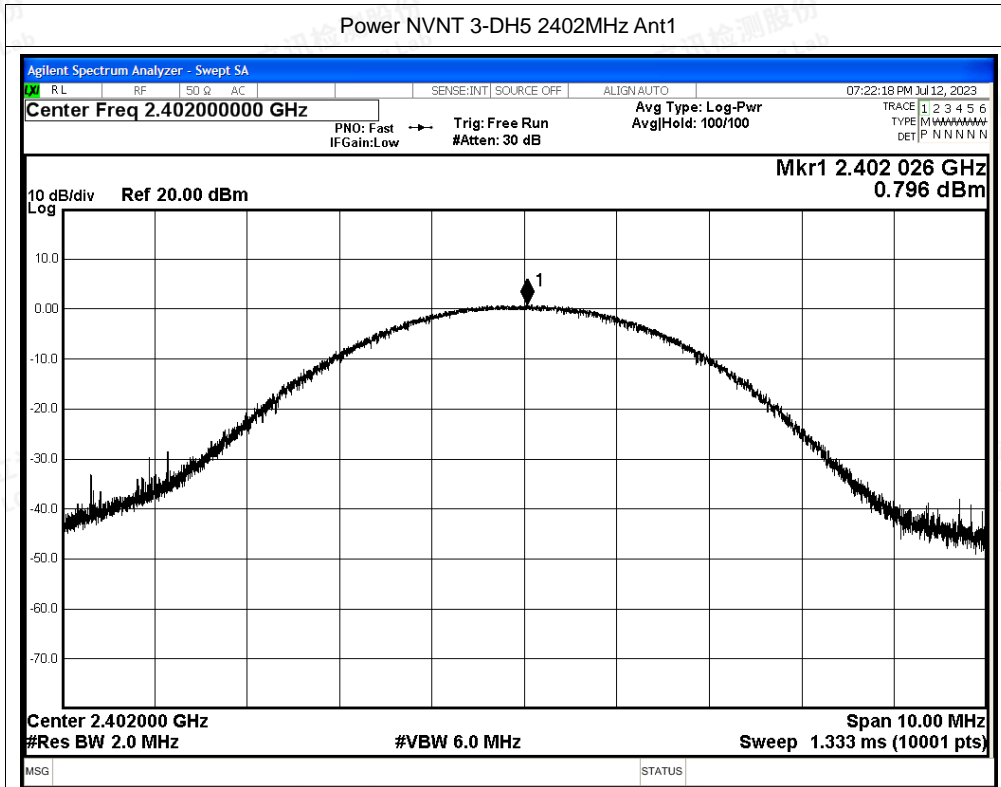


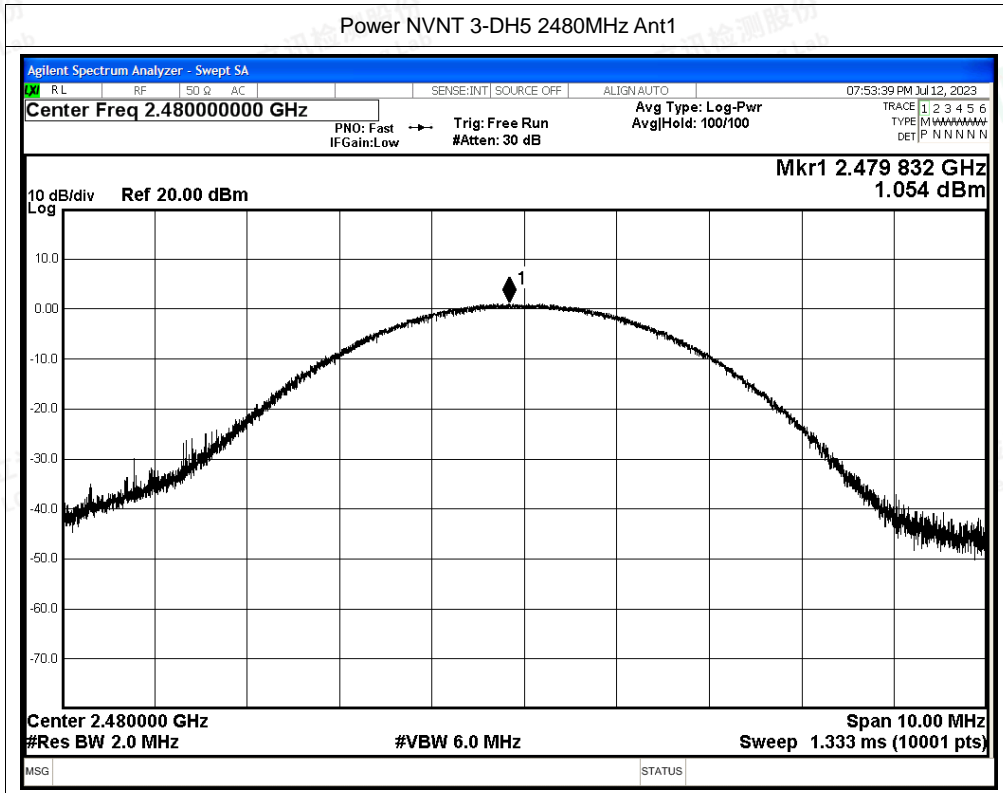
Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1









### A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.986	2403.008	1.022	0.639	Pass
NVNT	2-DH5	Ant1	2401.98	2402.982	1.002	0.874	Pass
NVNT	3-DH5	Ant1	2401.826	2402.976	1.15	0.881	Pass

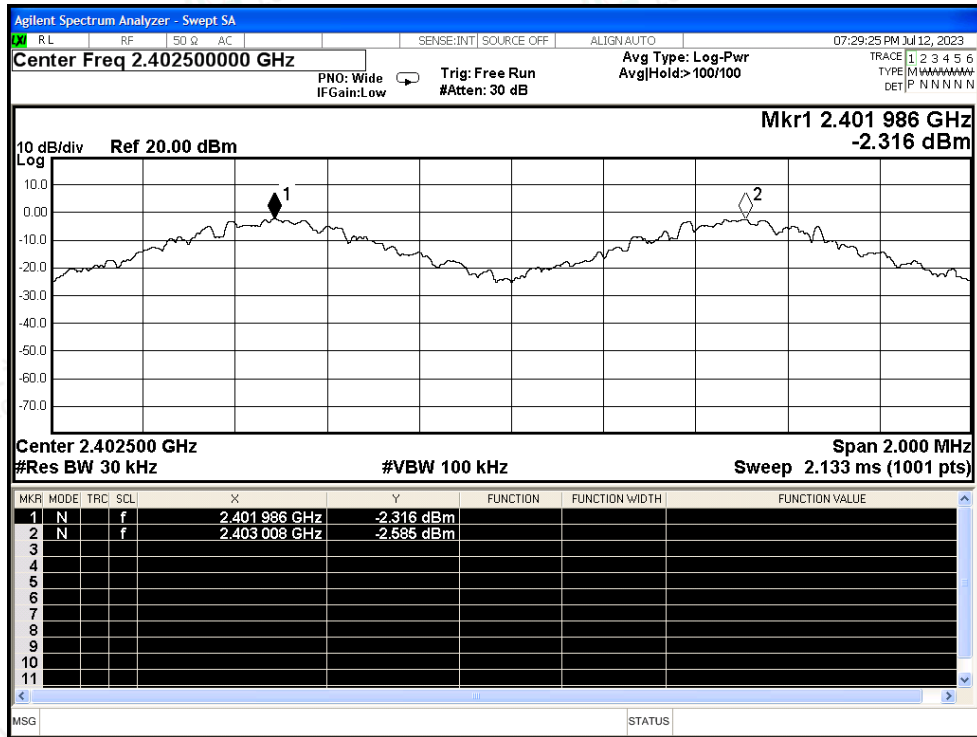


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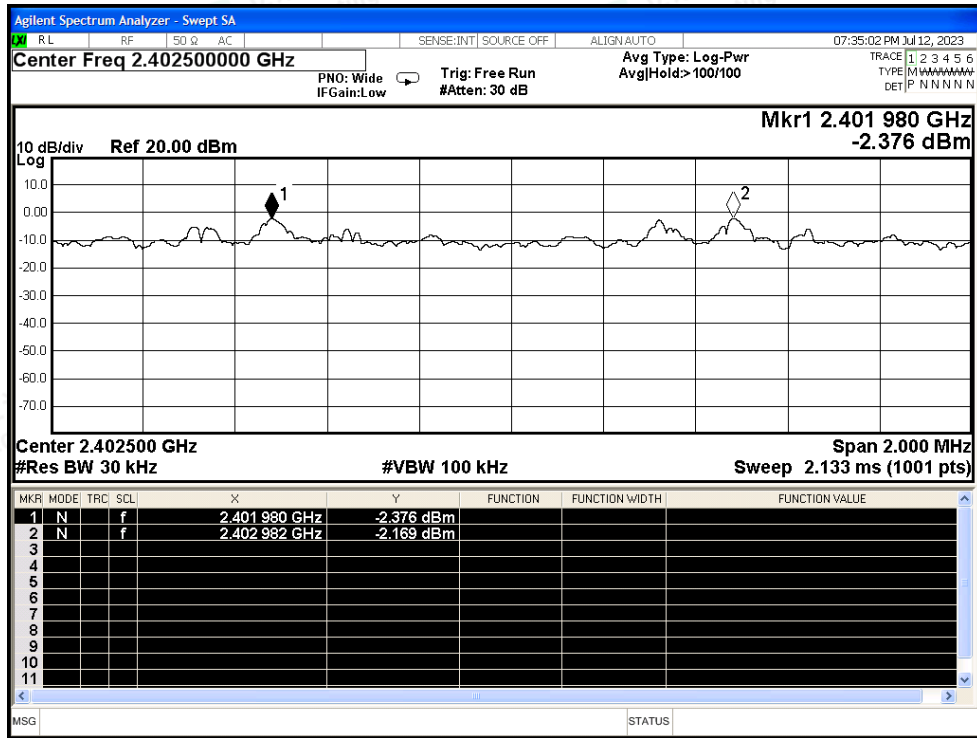


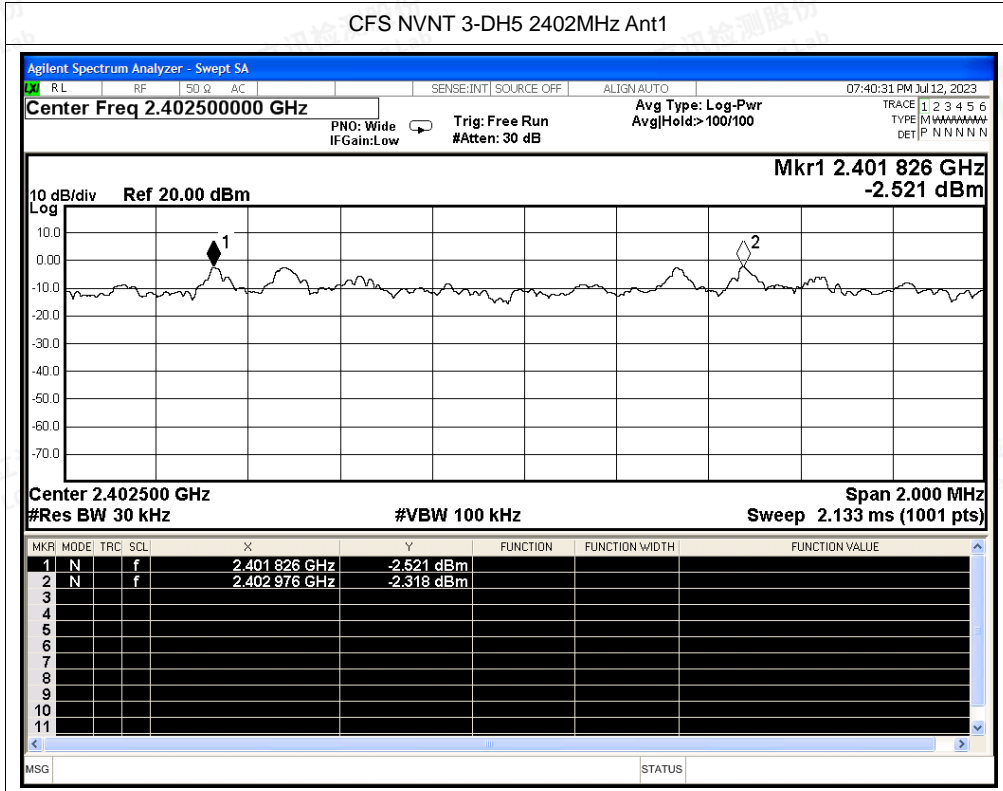
Test Graphs

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	2.881	325.553	113	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	314.465	109	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	311.796	108	31600	400	Pass

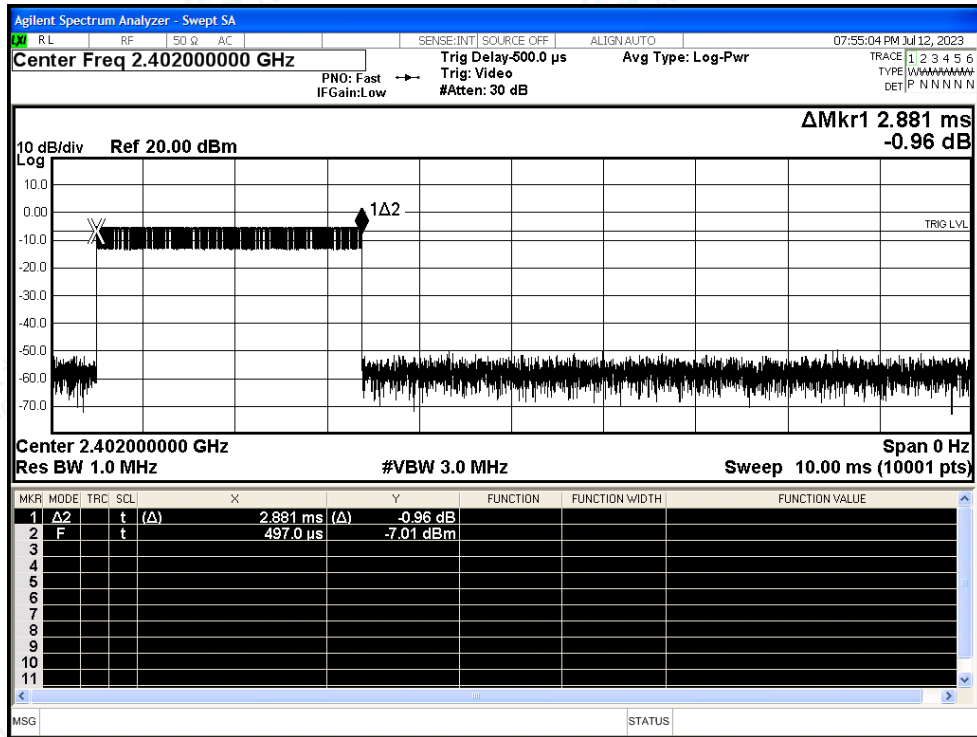


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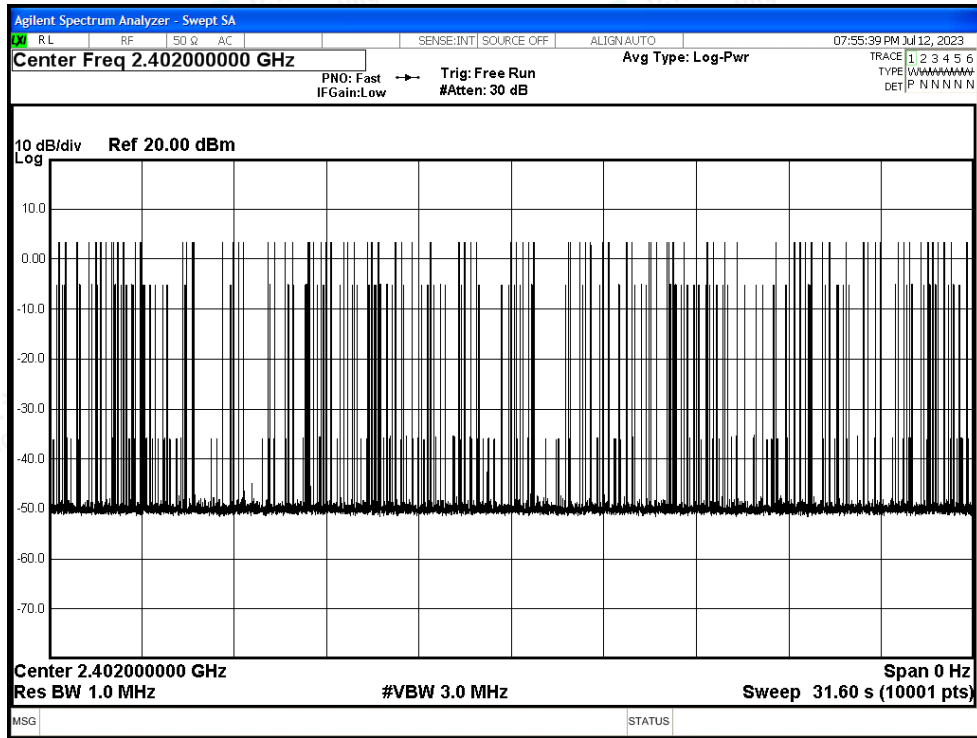


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

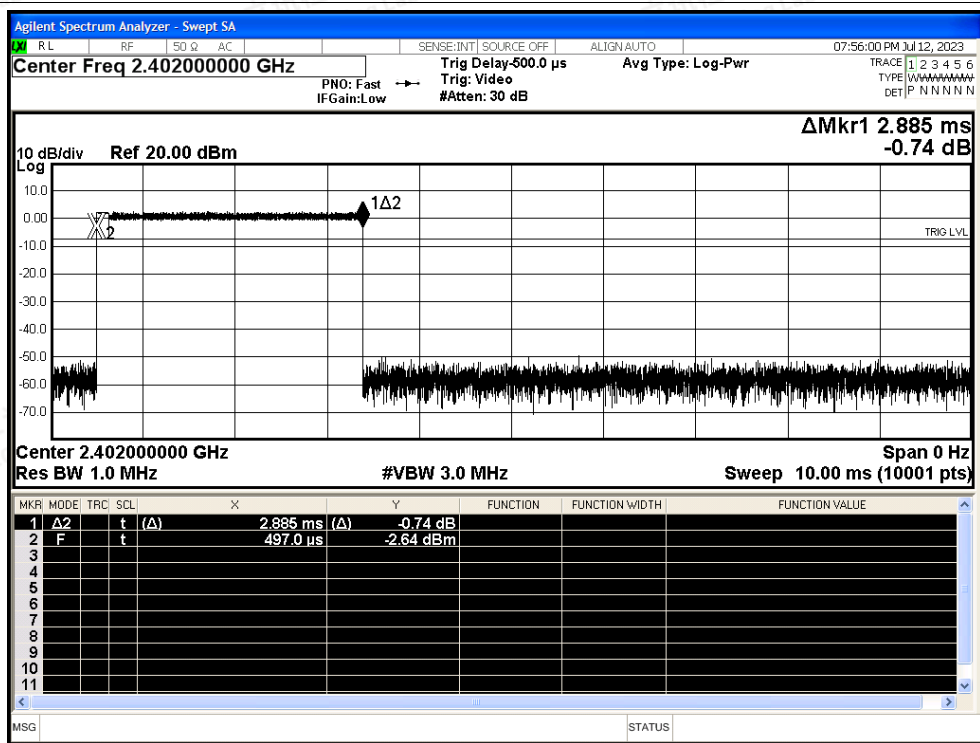


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

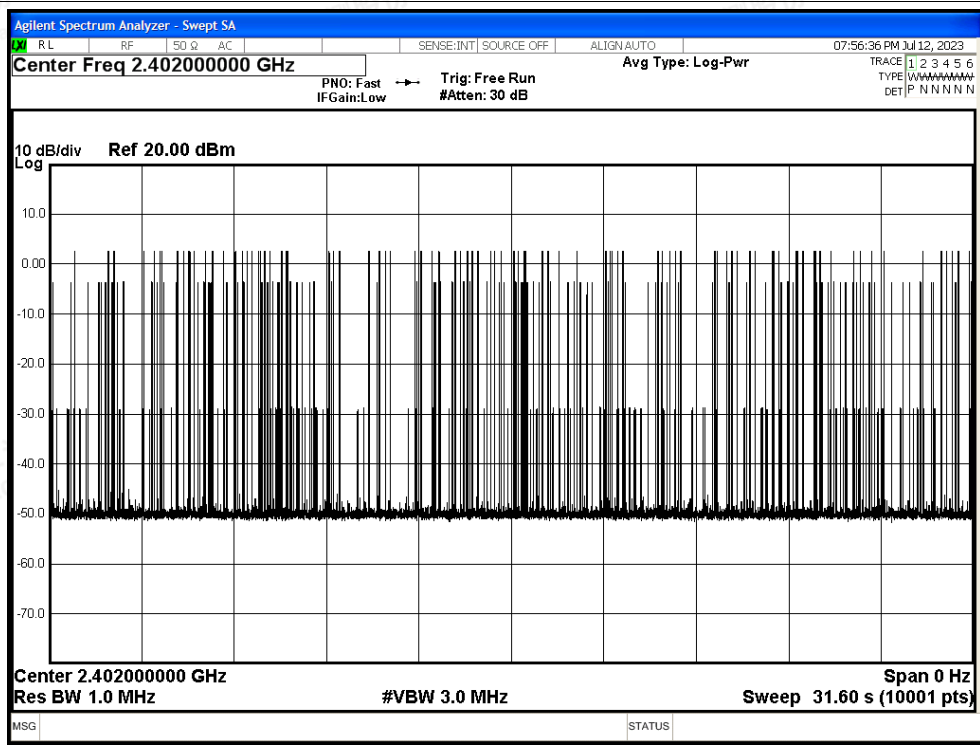




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

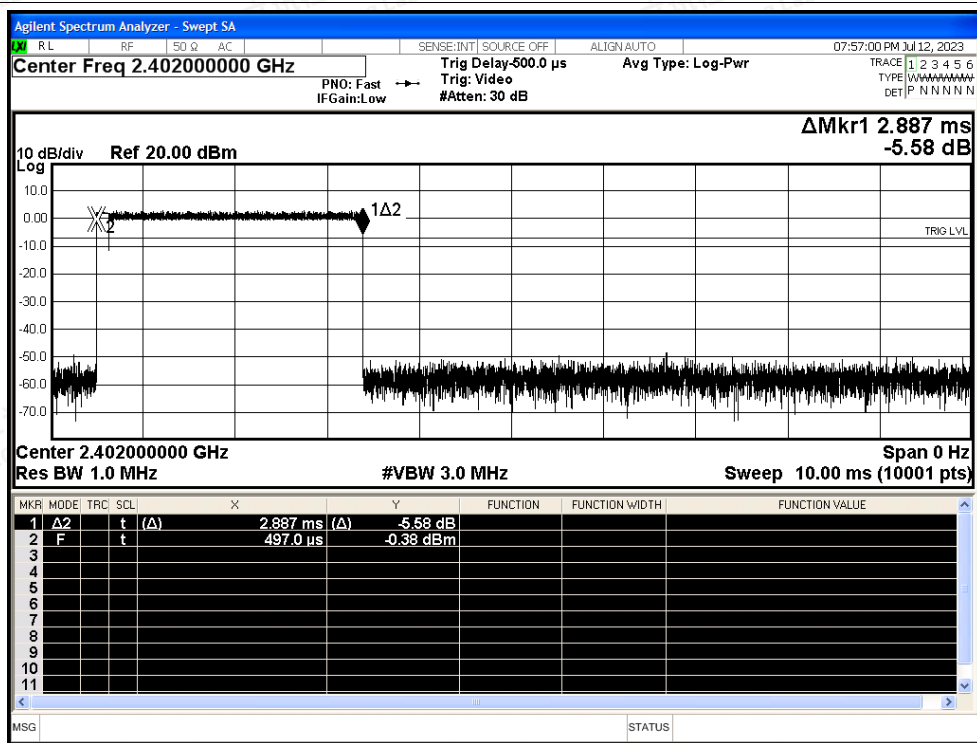


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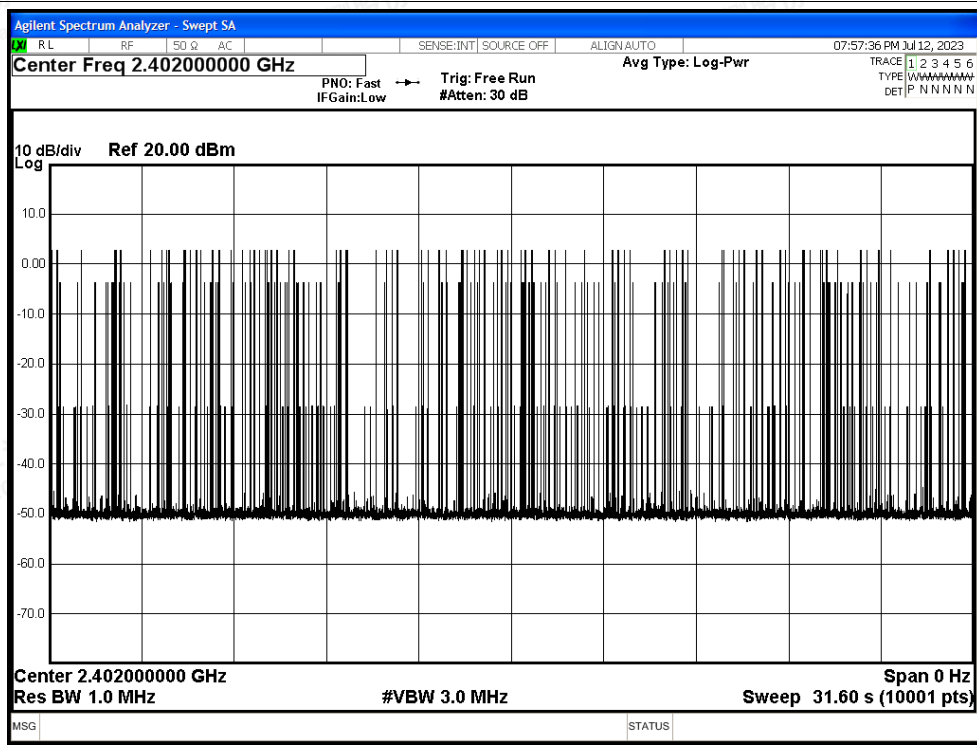




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

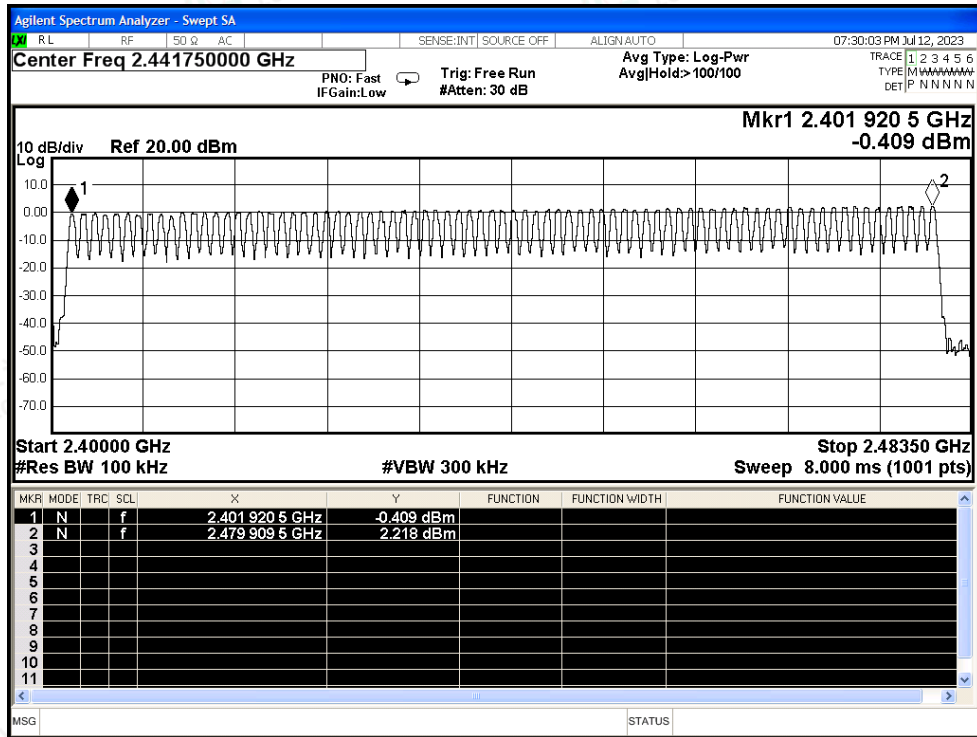


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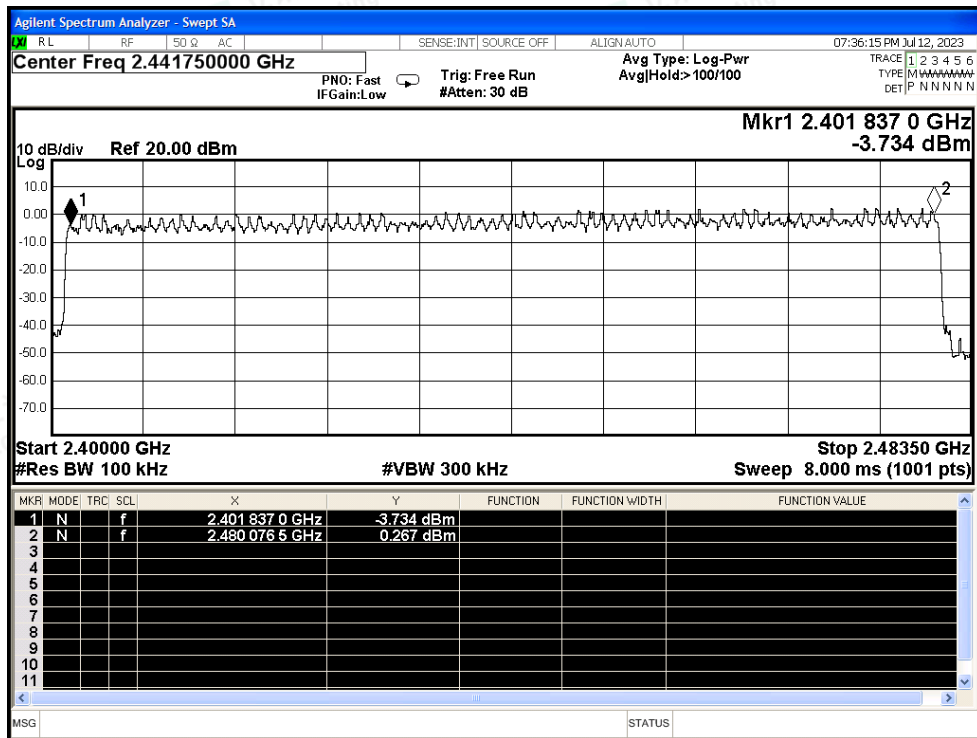


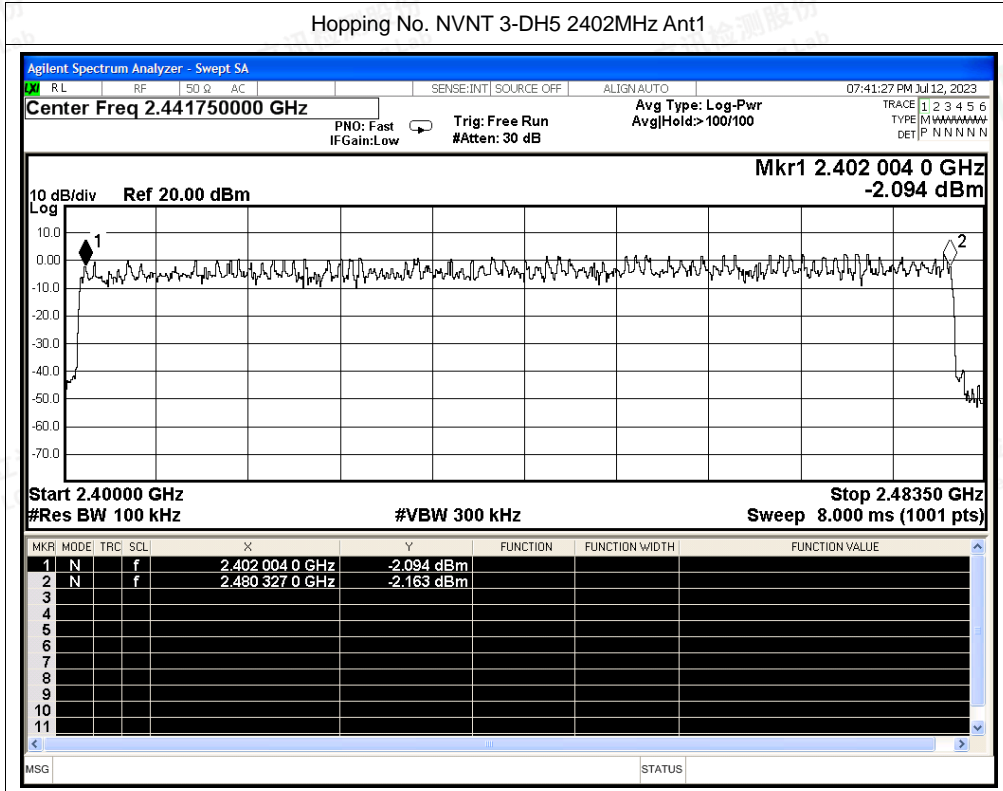
Test Graphs

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	-37.41	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-48.58	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-37.28	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-51.95	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-37.24	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-51.52	-20	Pass



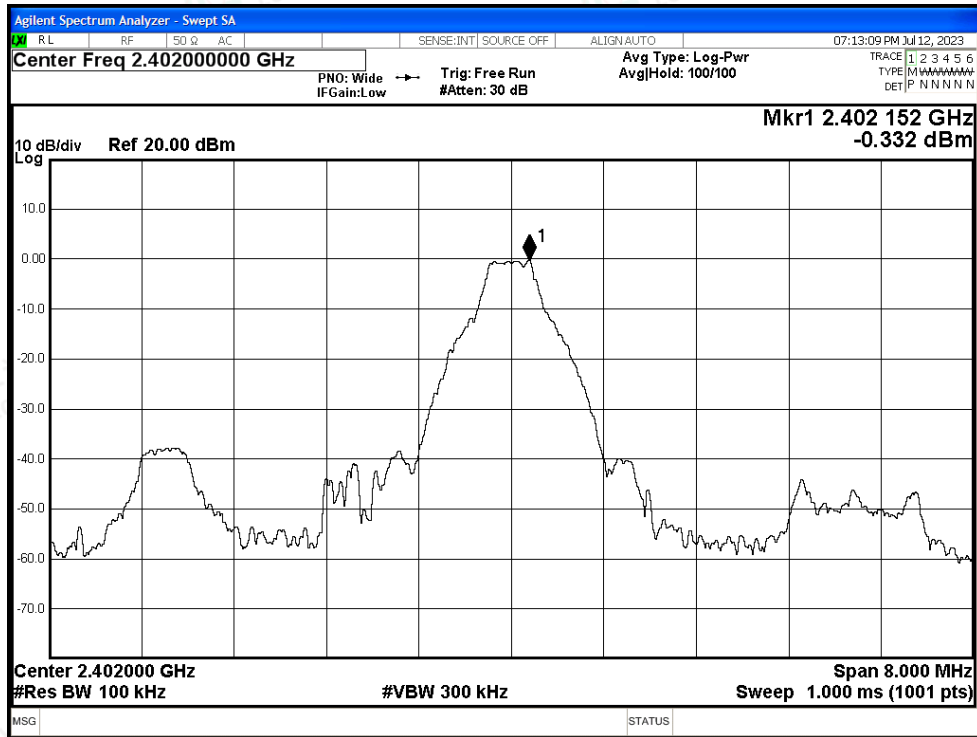
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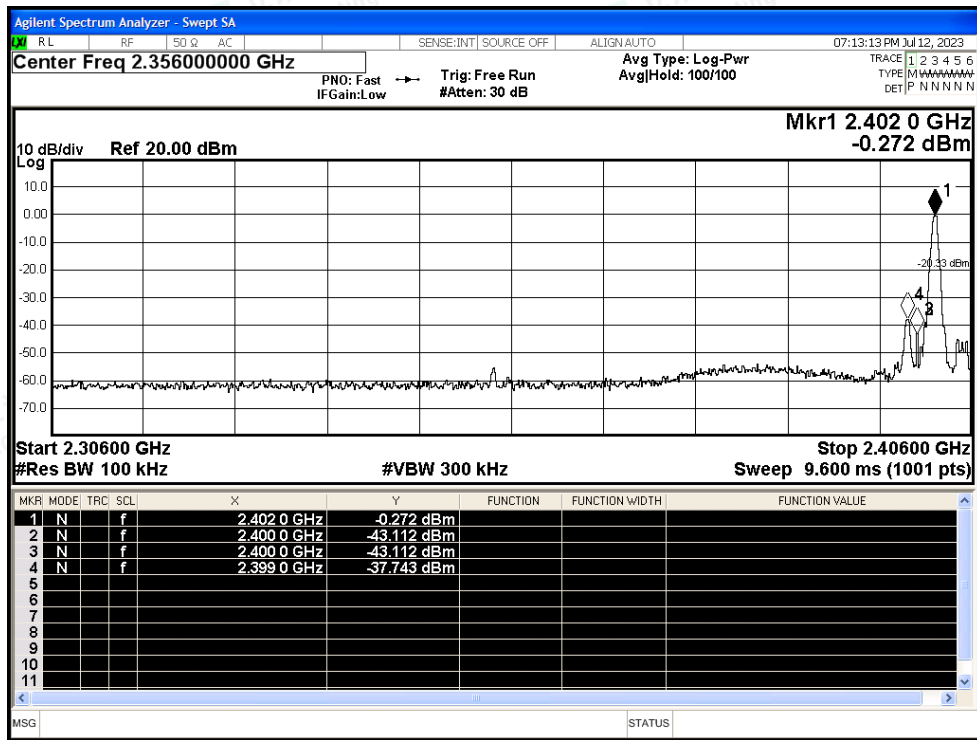


Test Graphs

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



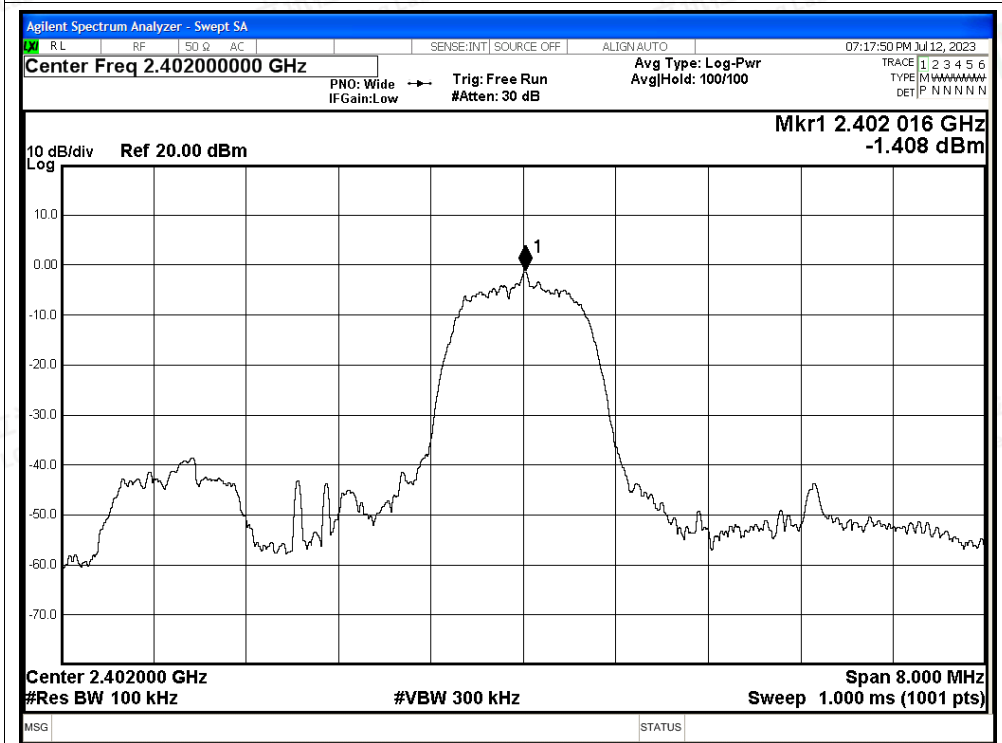
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



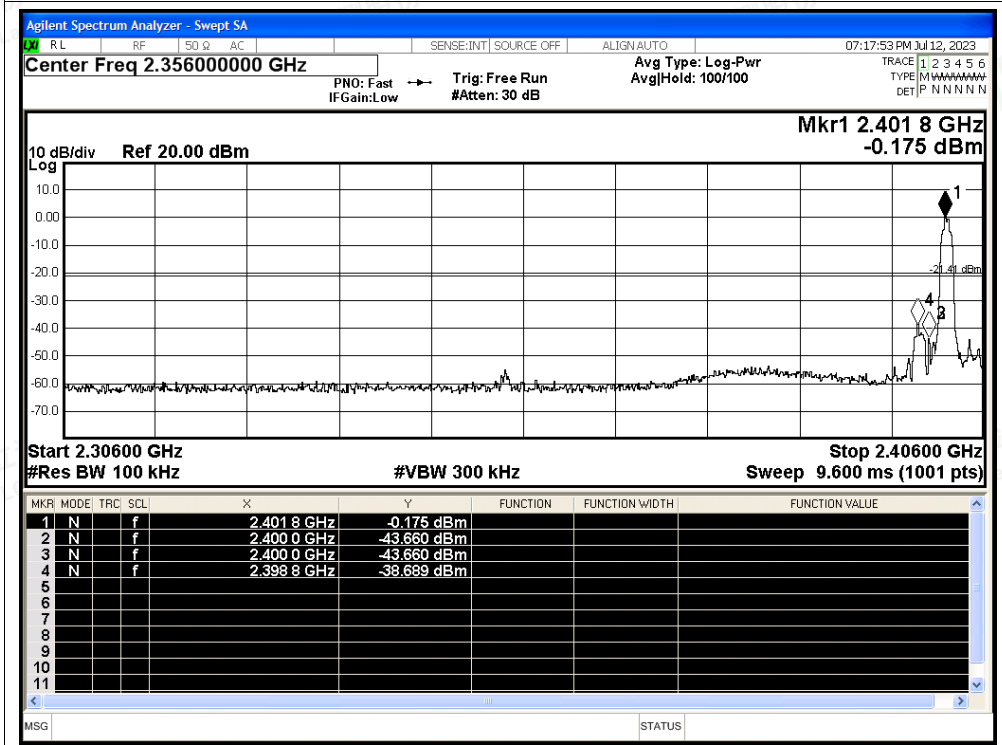




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

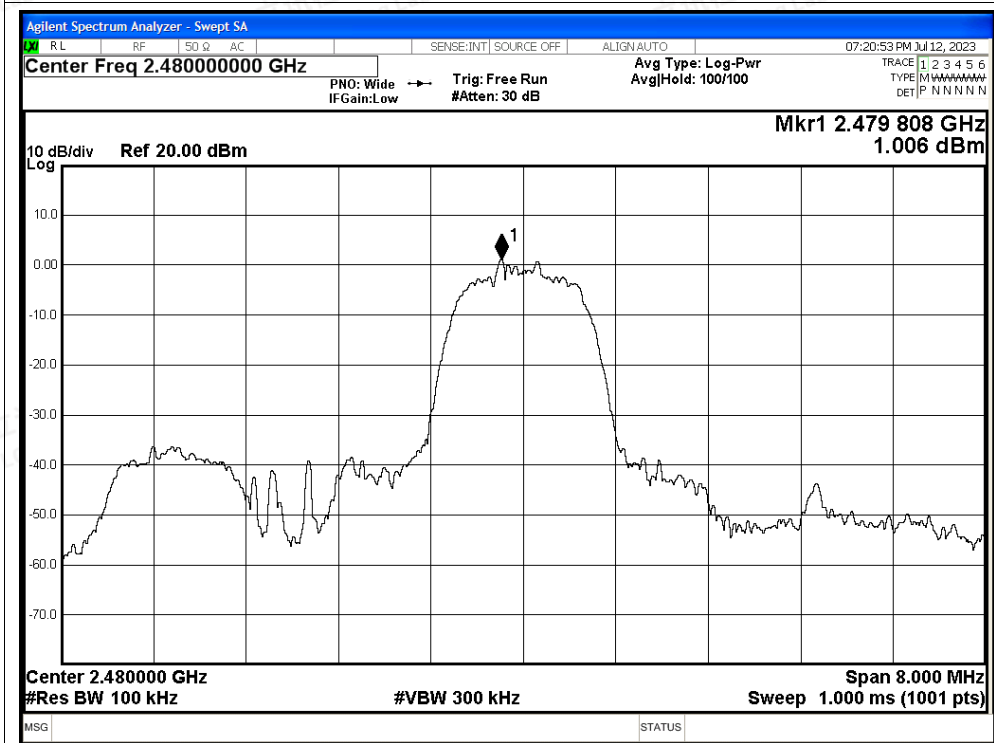


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

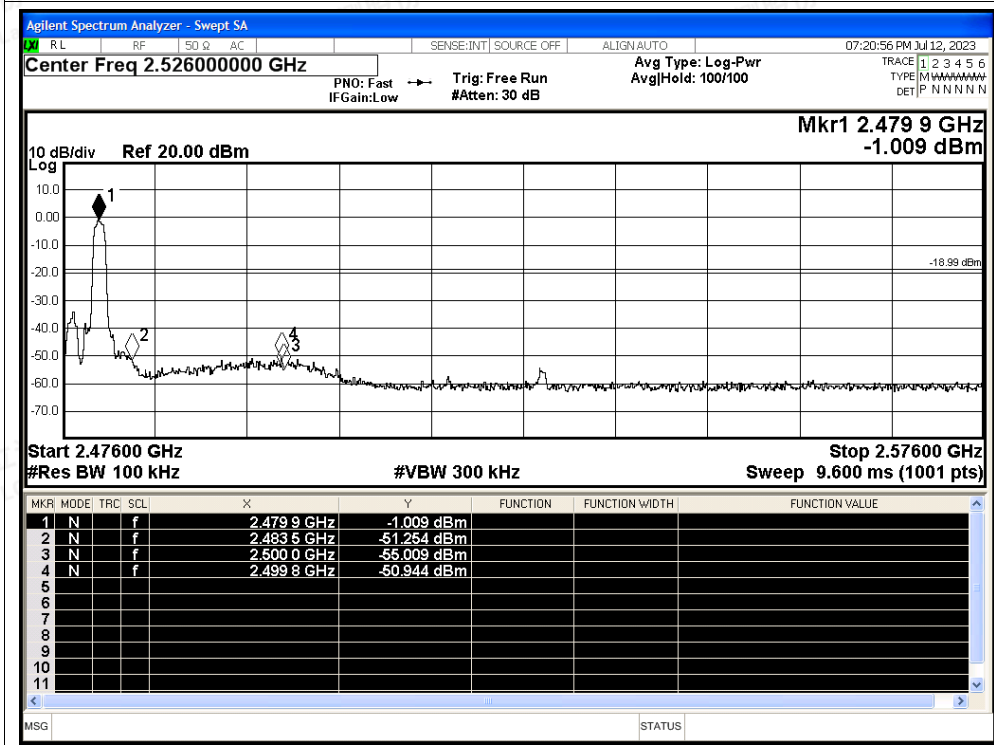




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

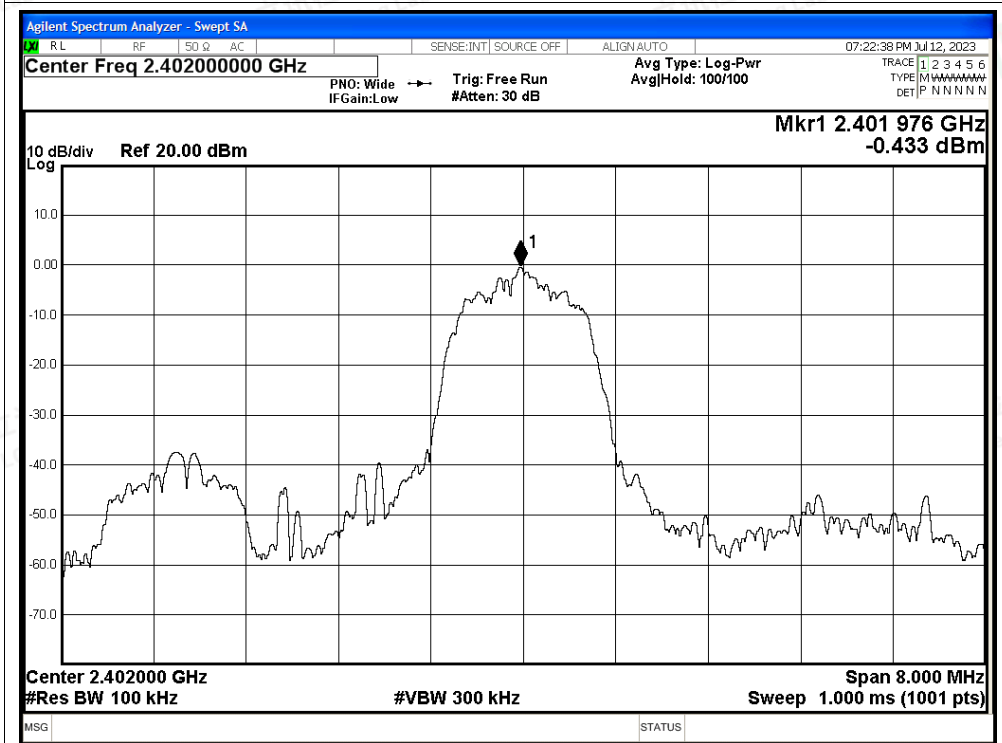


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

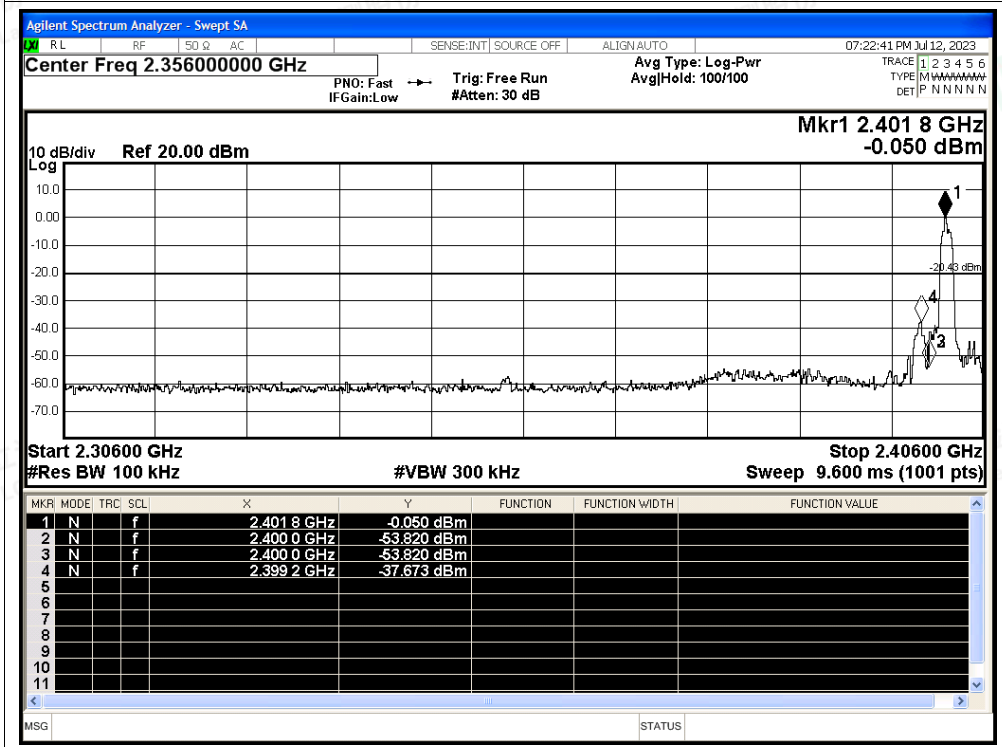




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

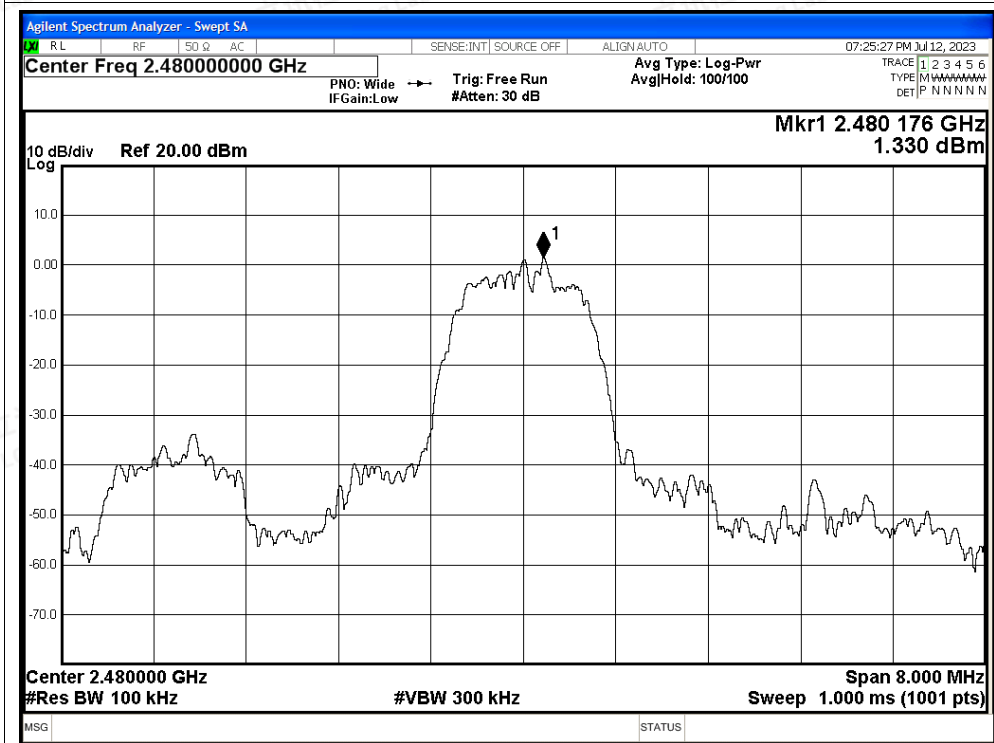


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

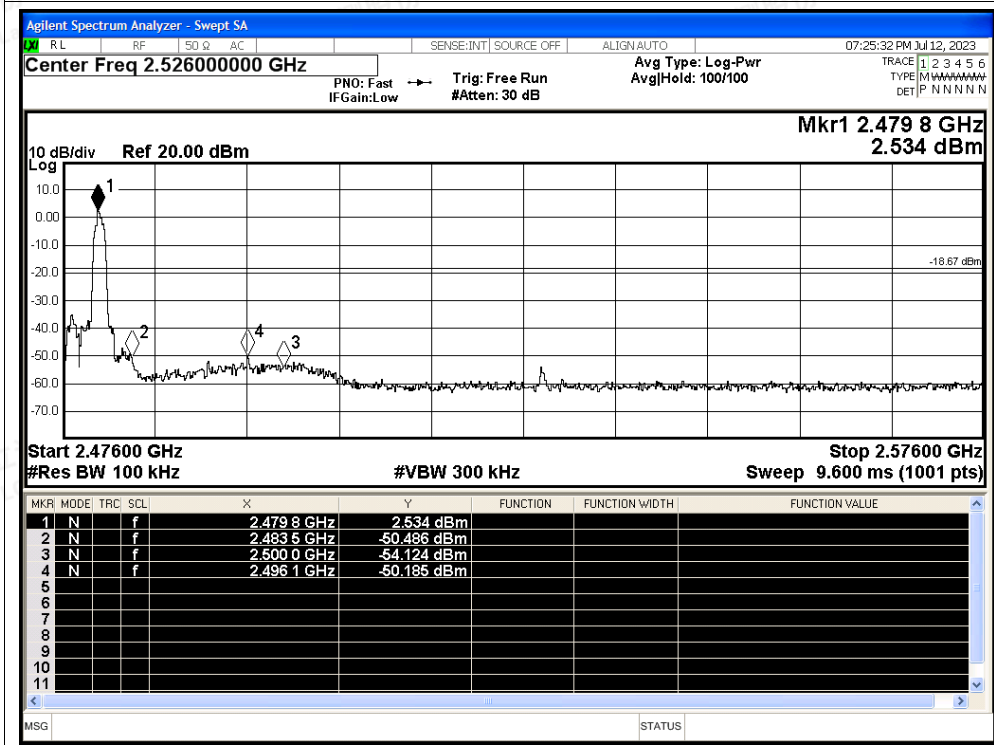




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-52.98	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-49.82	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.31	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-49.92	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-49.4	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.12	-20	Pass

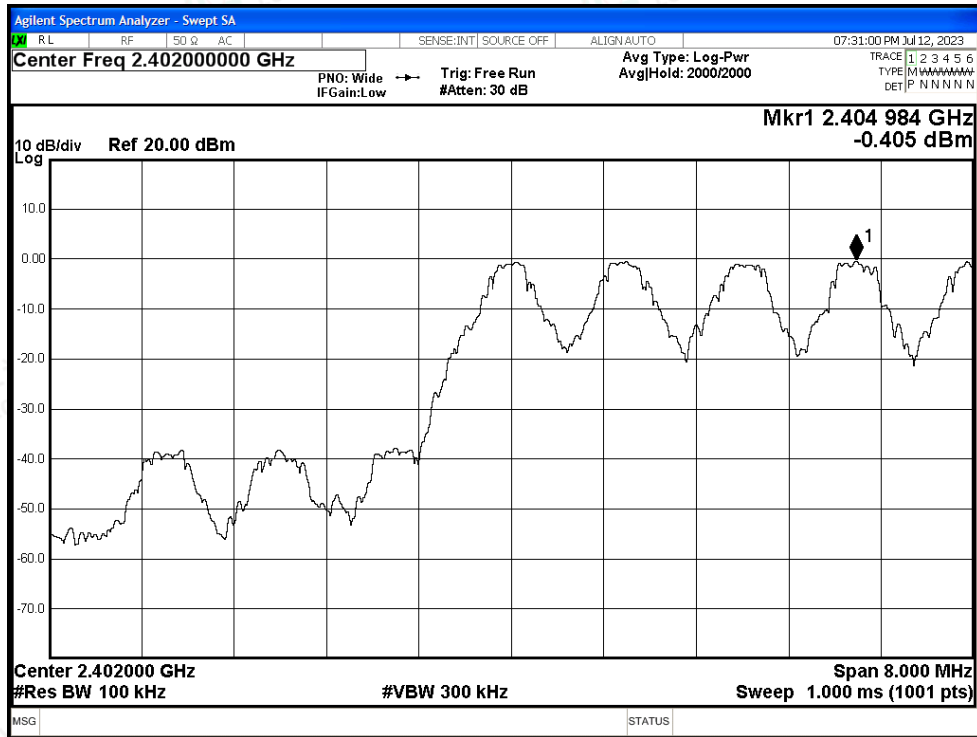


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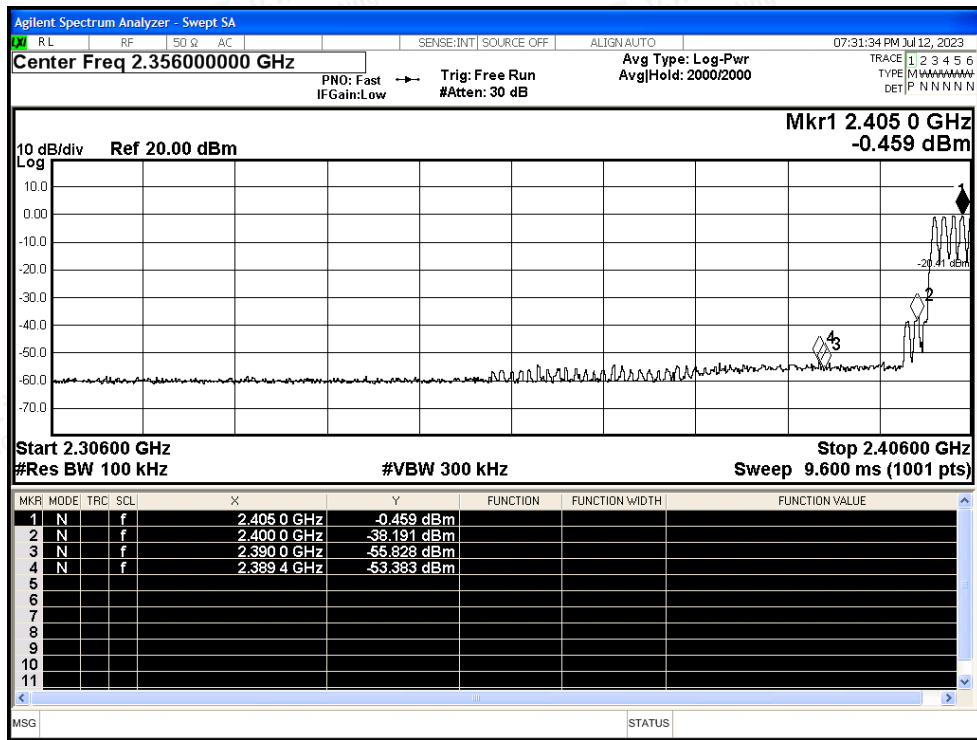


Test Graphs

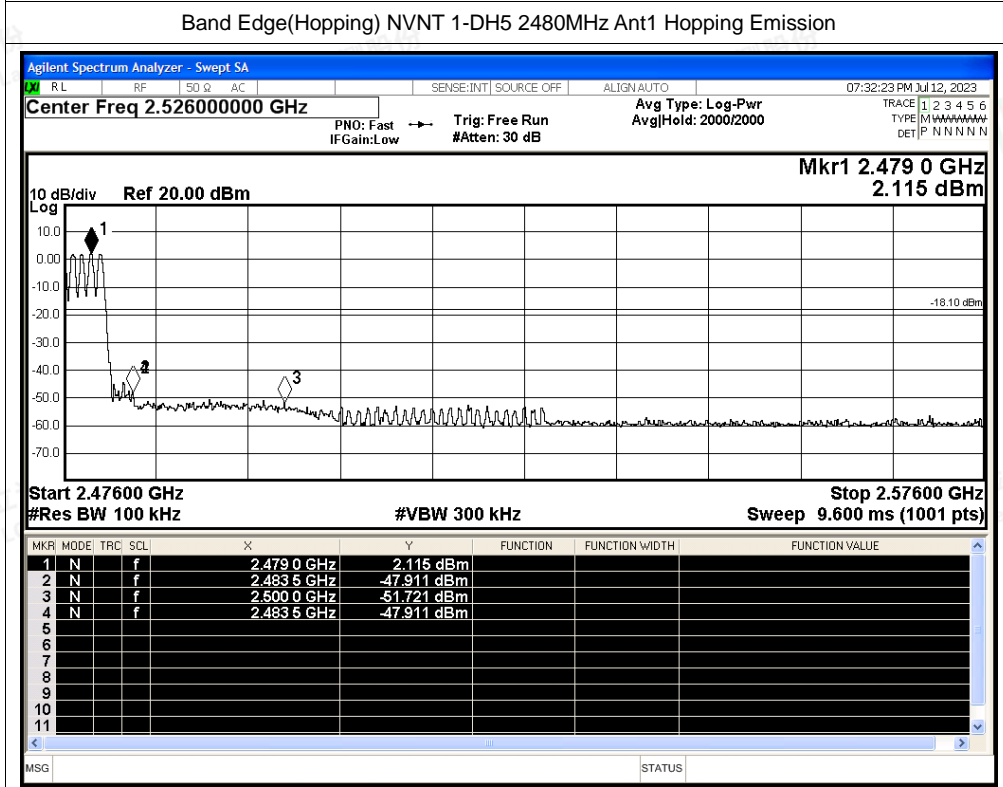
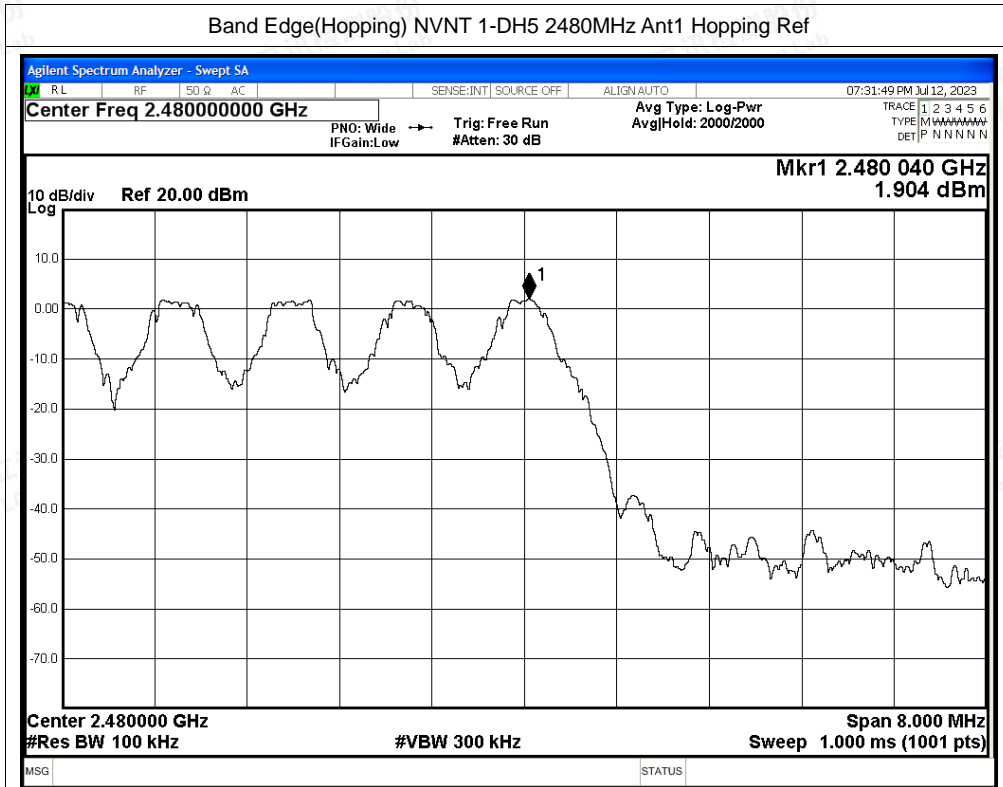
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

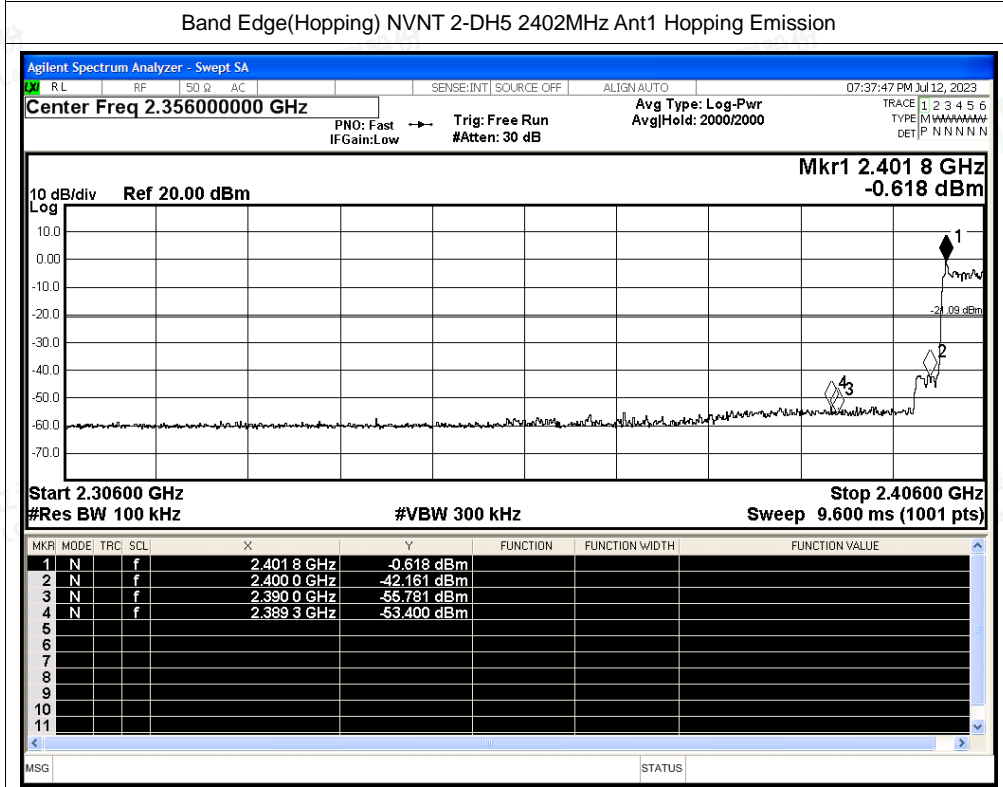
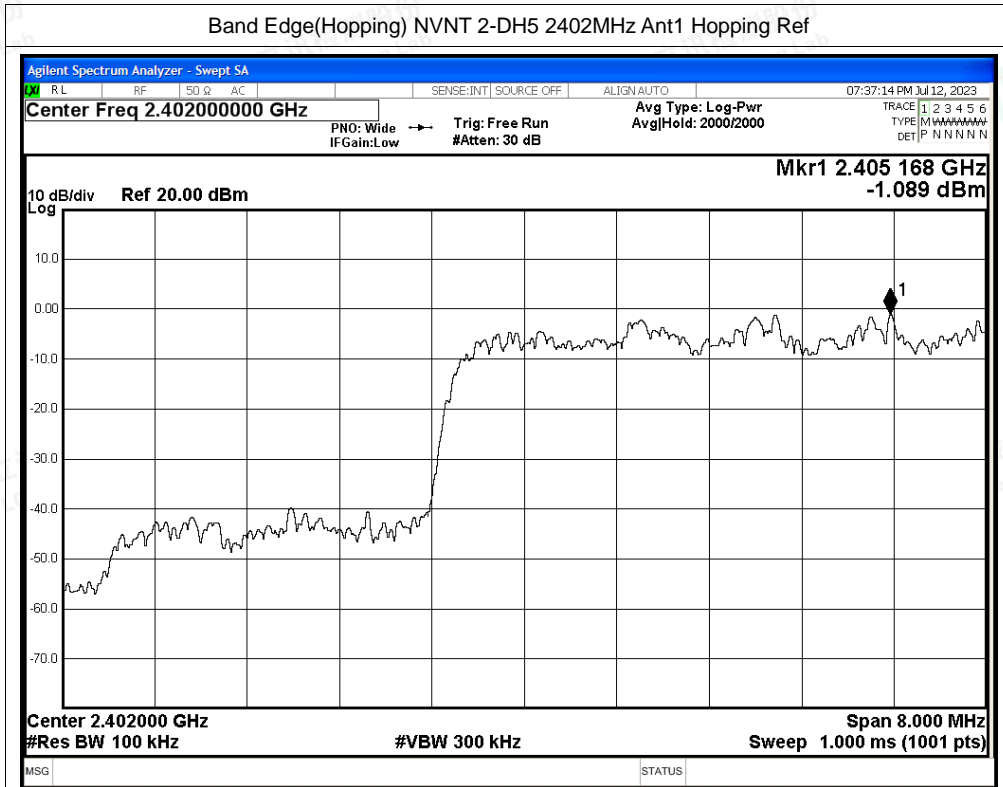


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



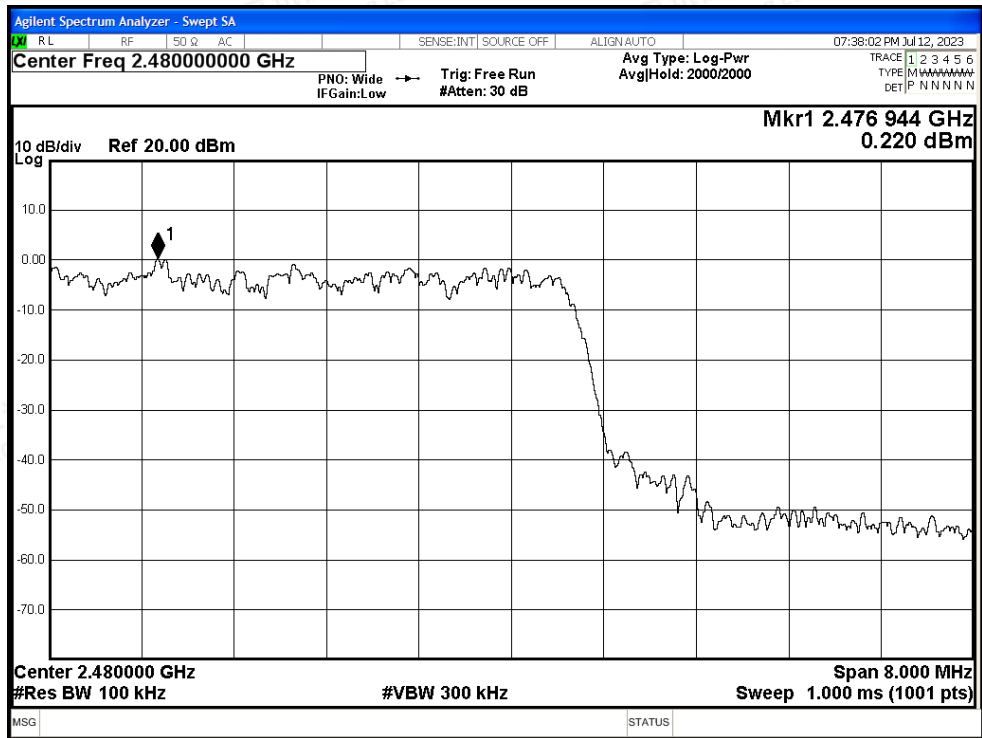




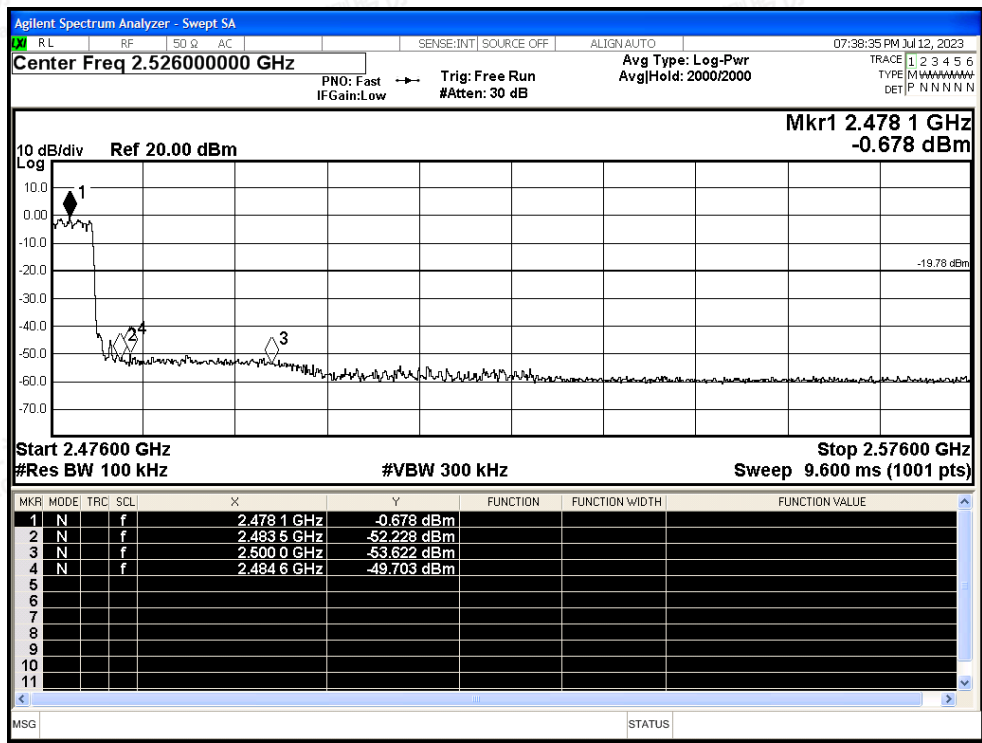




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

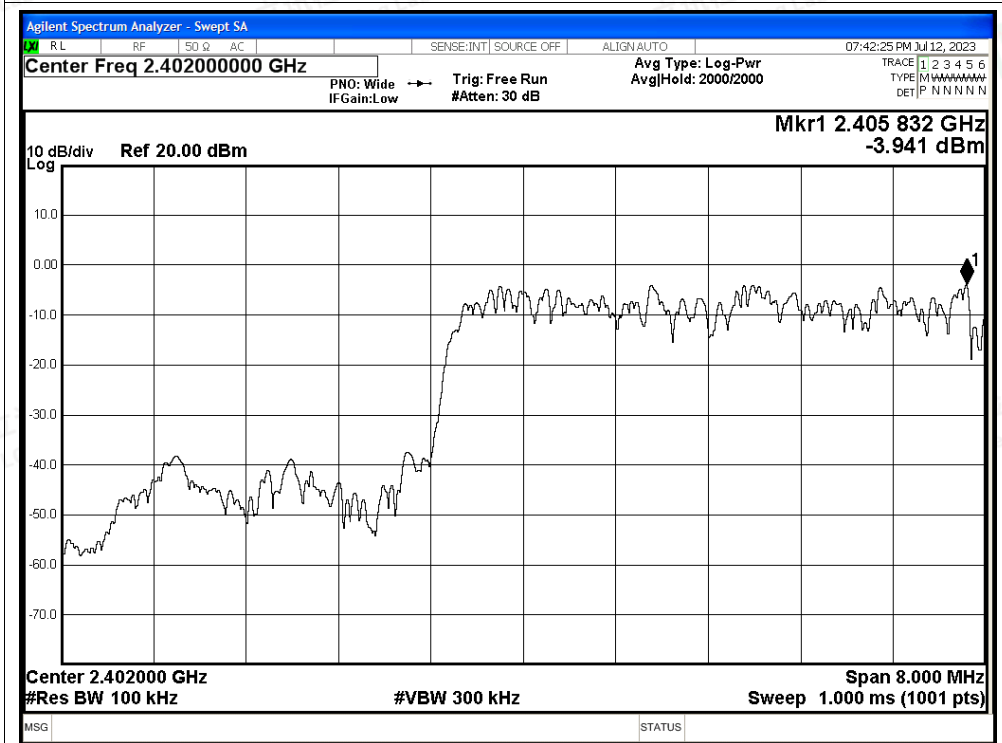


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

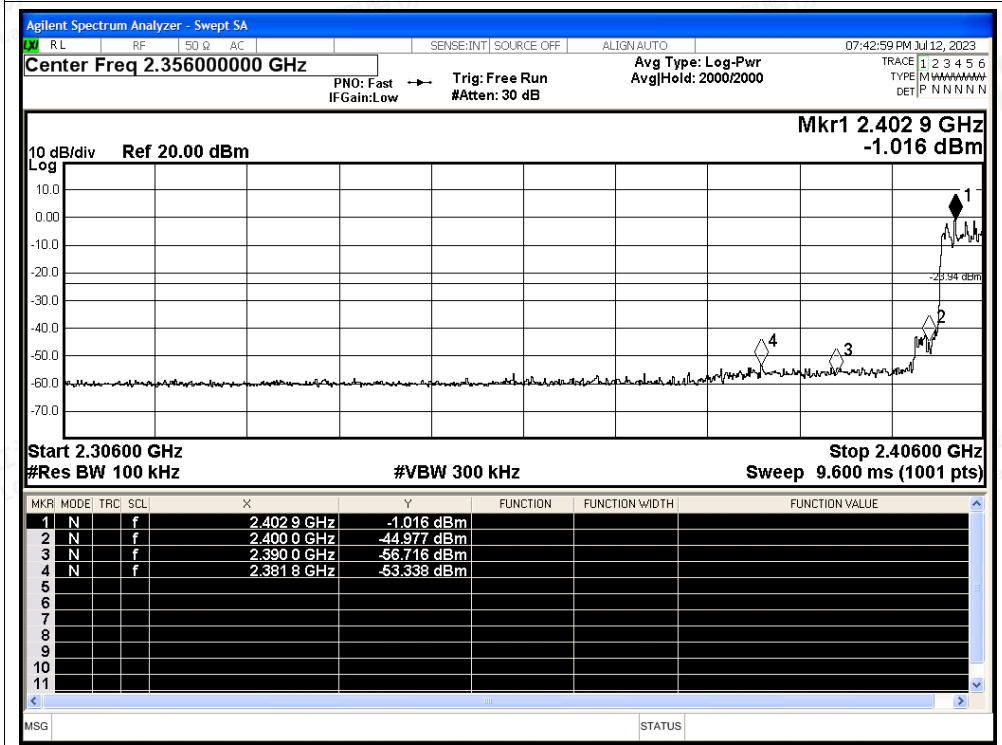




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

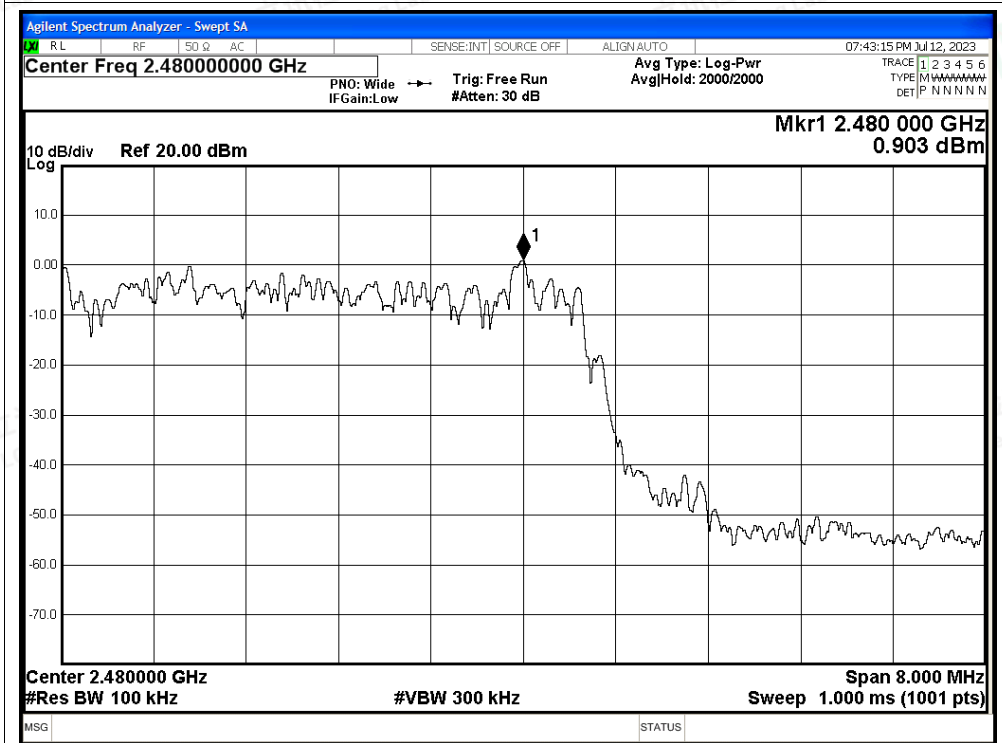


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

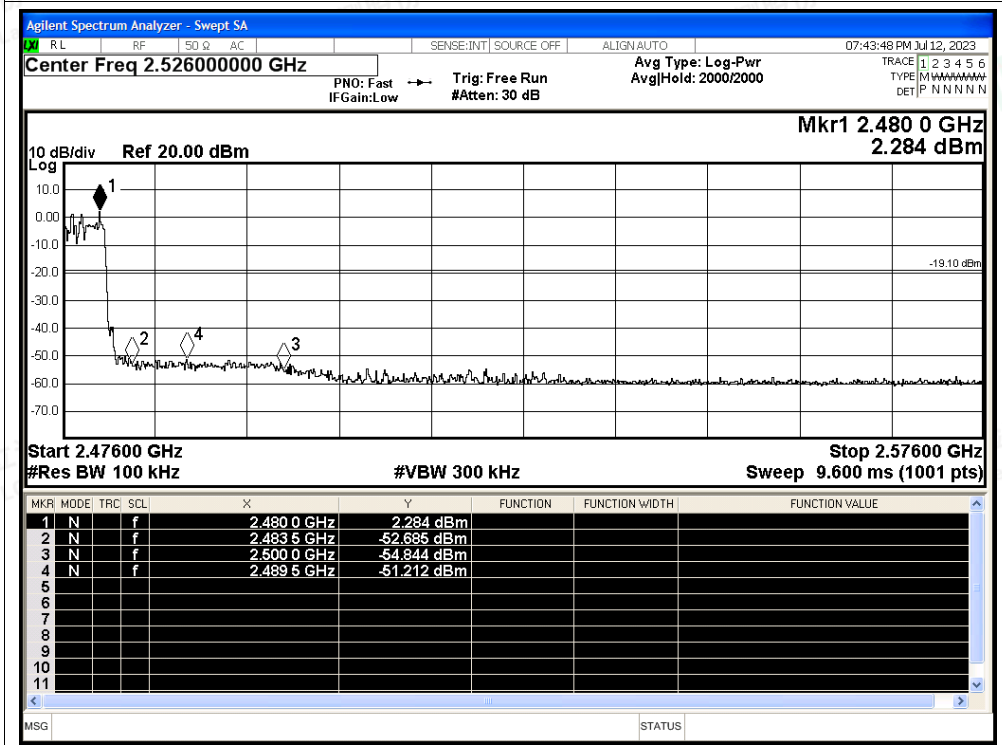




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-42.33	-20	Pass
NVNT	1-DH5	2441	Ant1	-43.15	-20	Pass
NVNT	1-DH5	2480	Ant1	-43.04	-20	Pass
NVNT	2-DH5	2402	Ant1	-42.17	-20	Pass
NVNT	2-DH5	2441	Ant1	-43.33	-20	Pass
NVNT	2-DH5	2480	Ant1	-42.68	-20	Pass
NVNT	3-DH5	2402	Ant1	-42.31	-20	Pass
NVNT	3-DH5	2441	Ant1	-43.24	-20	Pass
NVNT	3-DH5	2480	Ant1	-43.3	-20	Pass

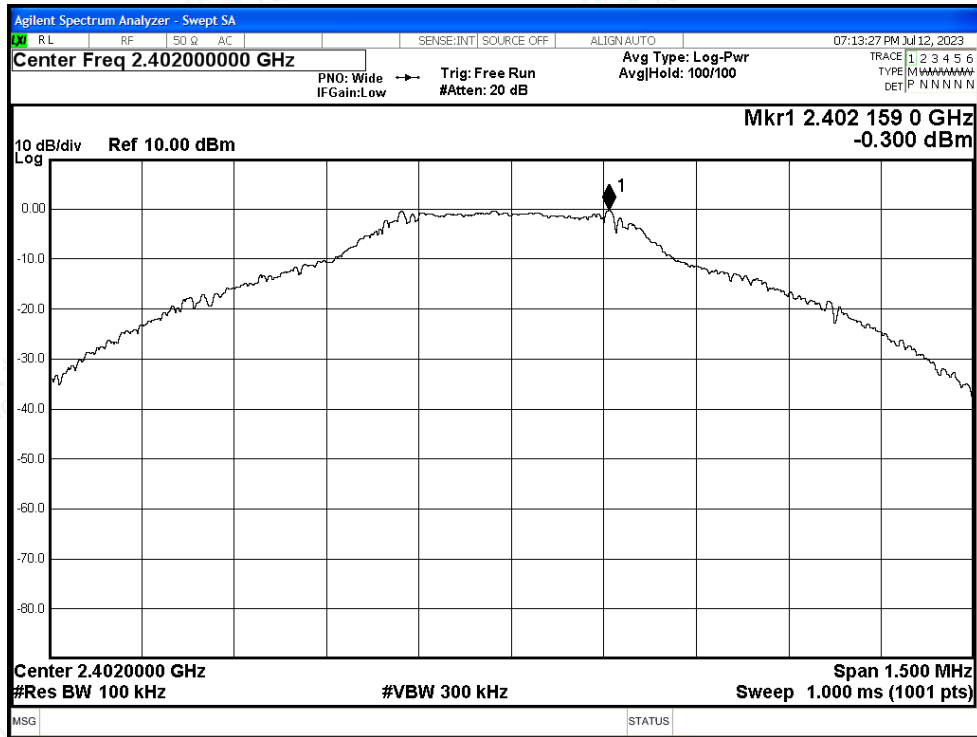


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Scan code to check authenticity

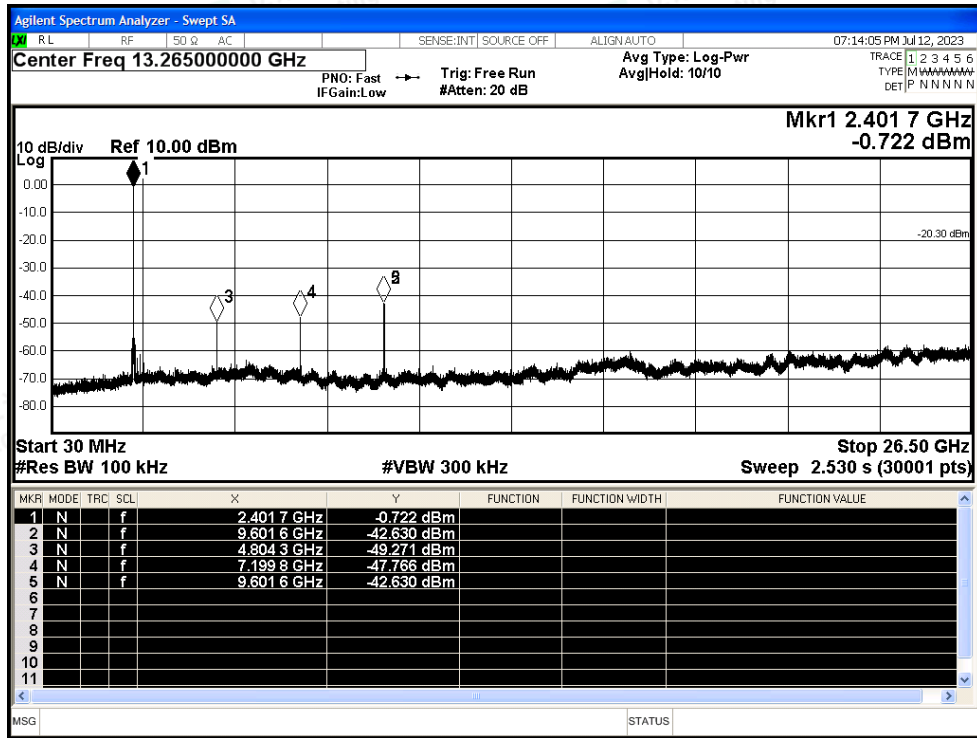


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

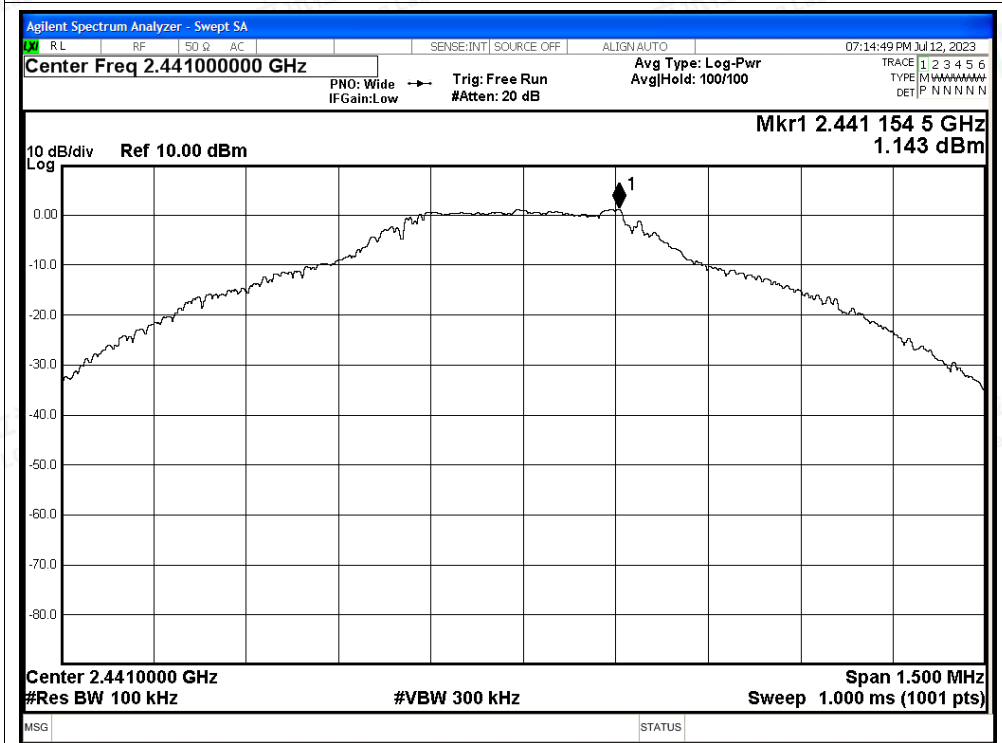


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

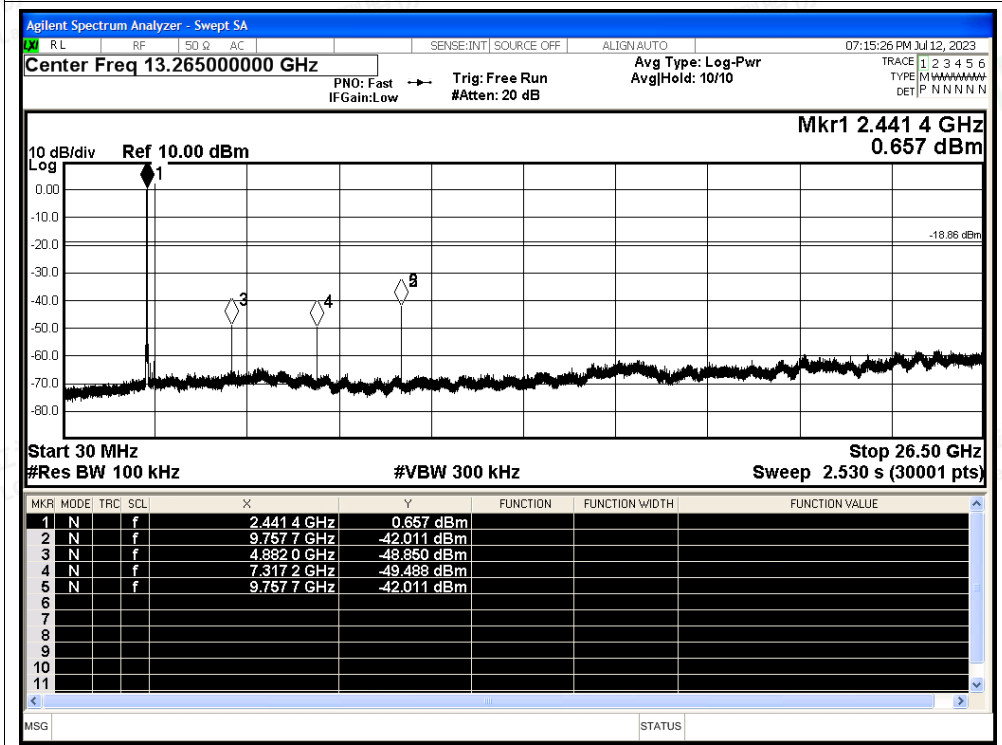




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



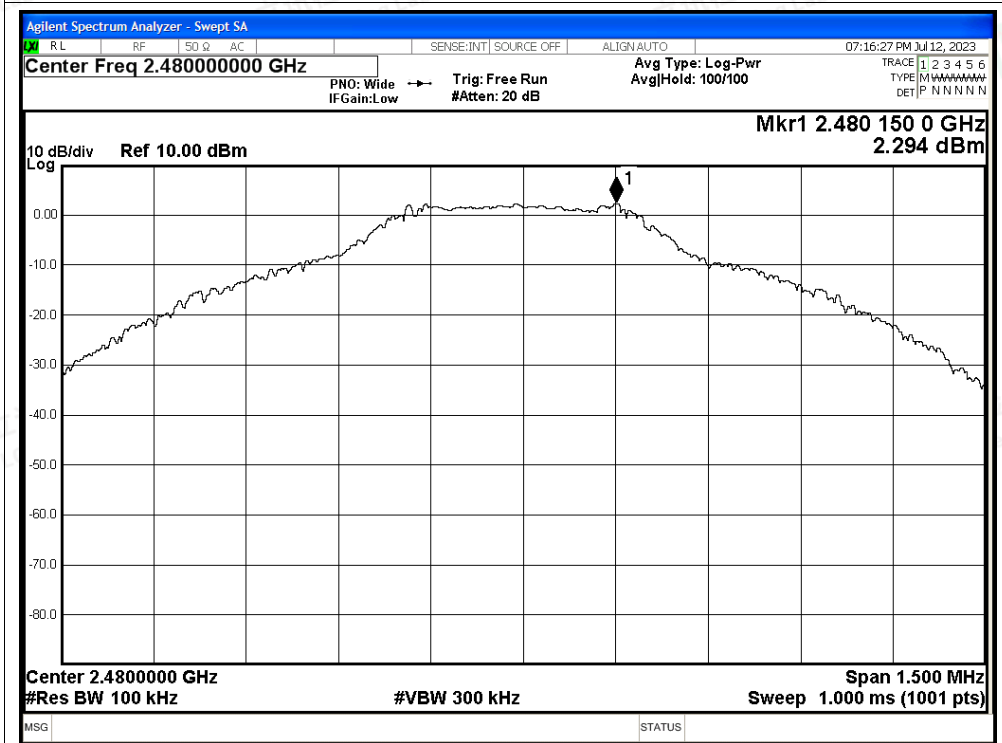
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



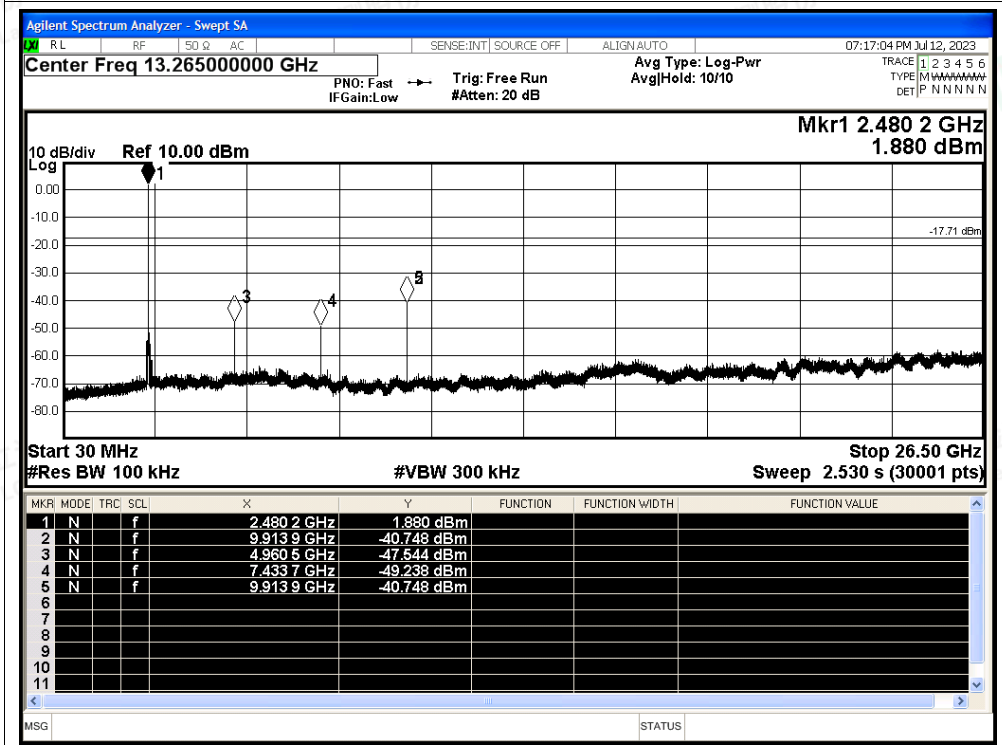




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

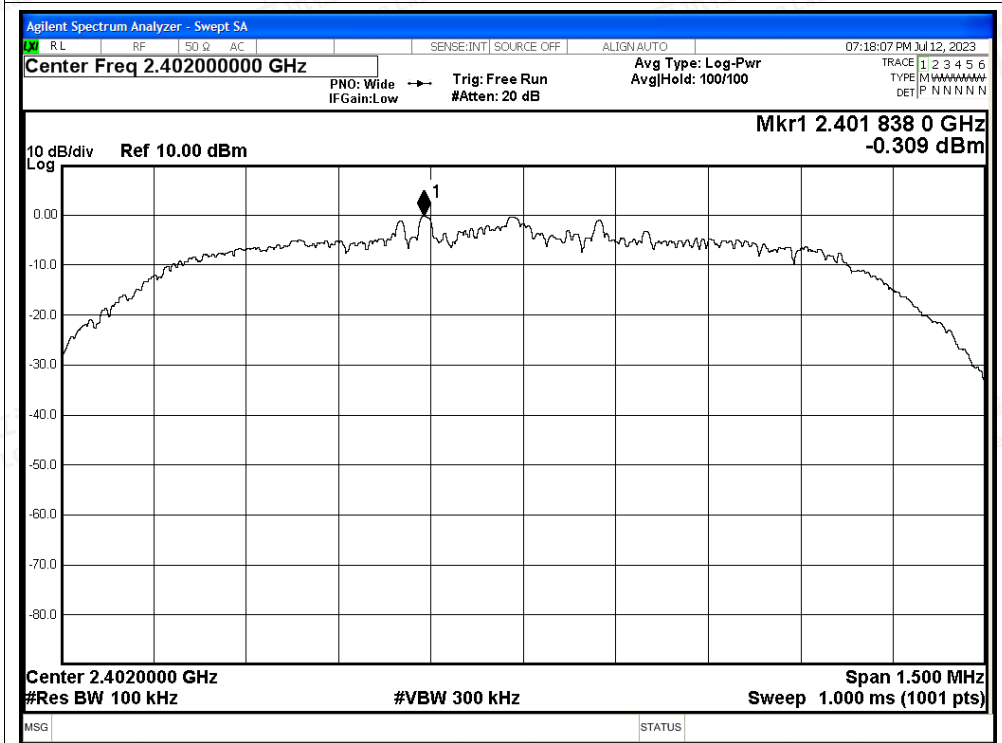


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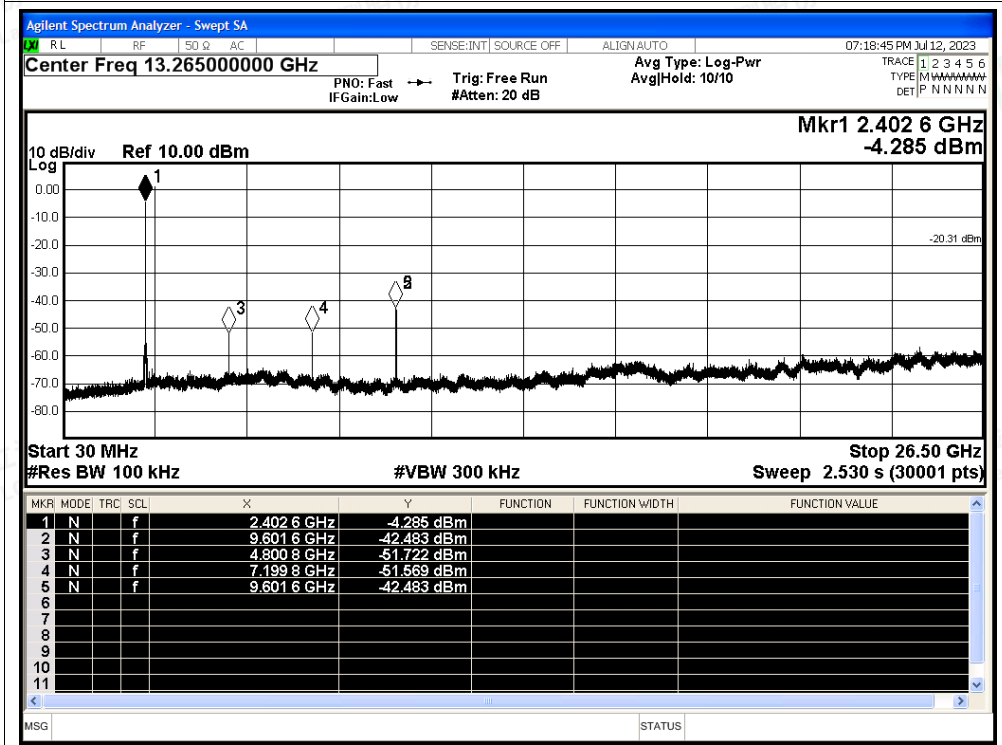




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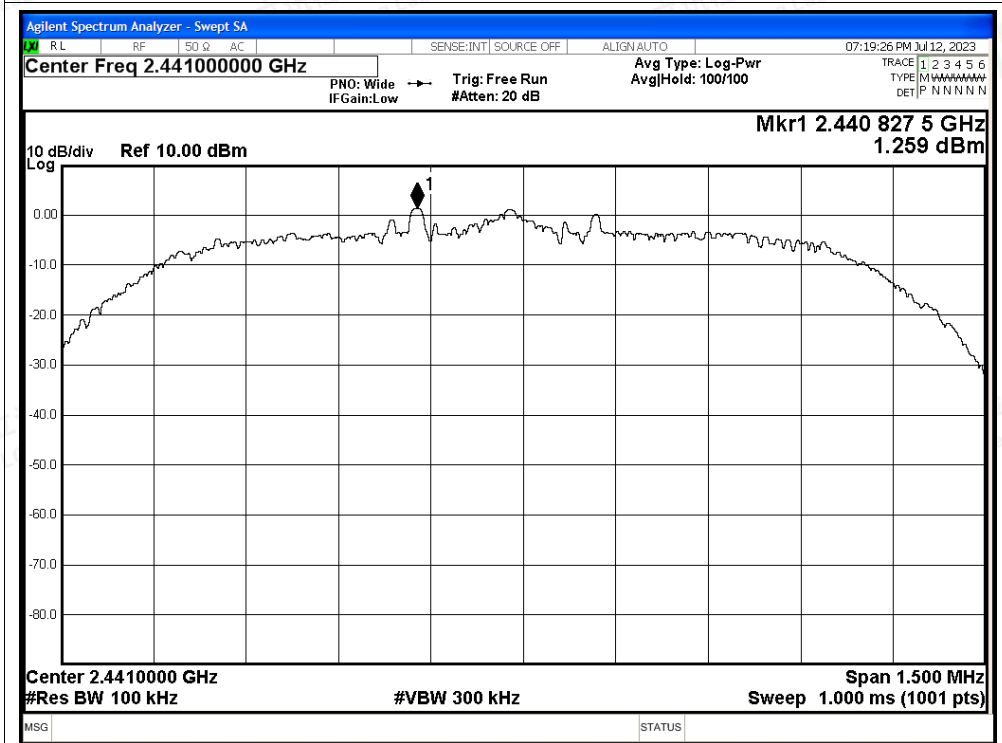


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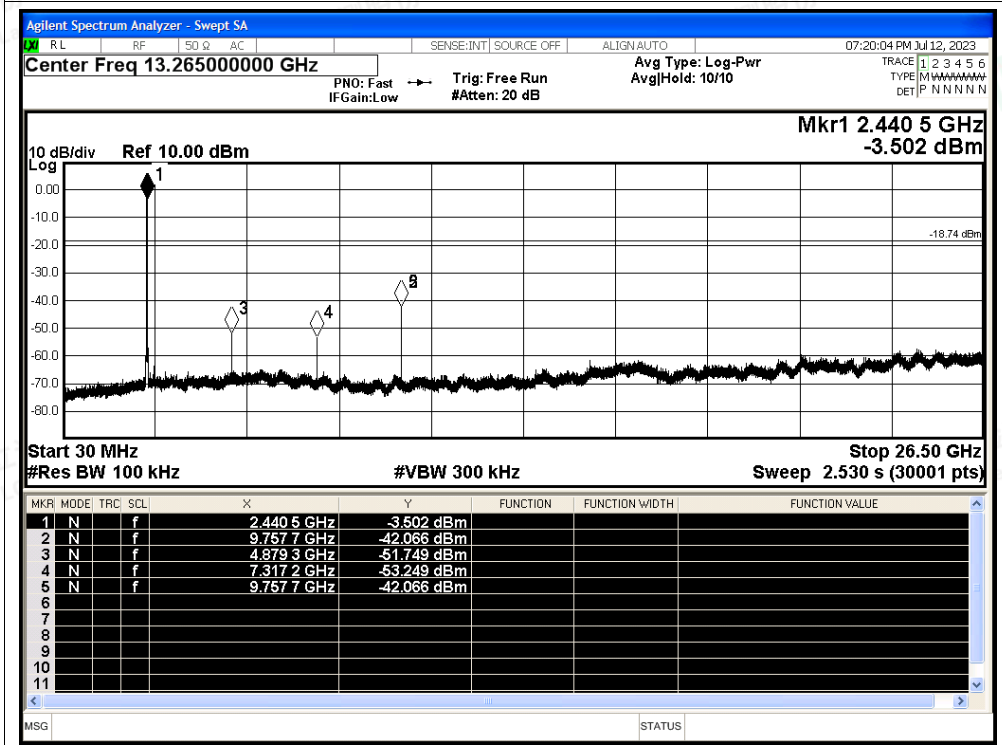




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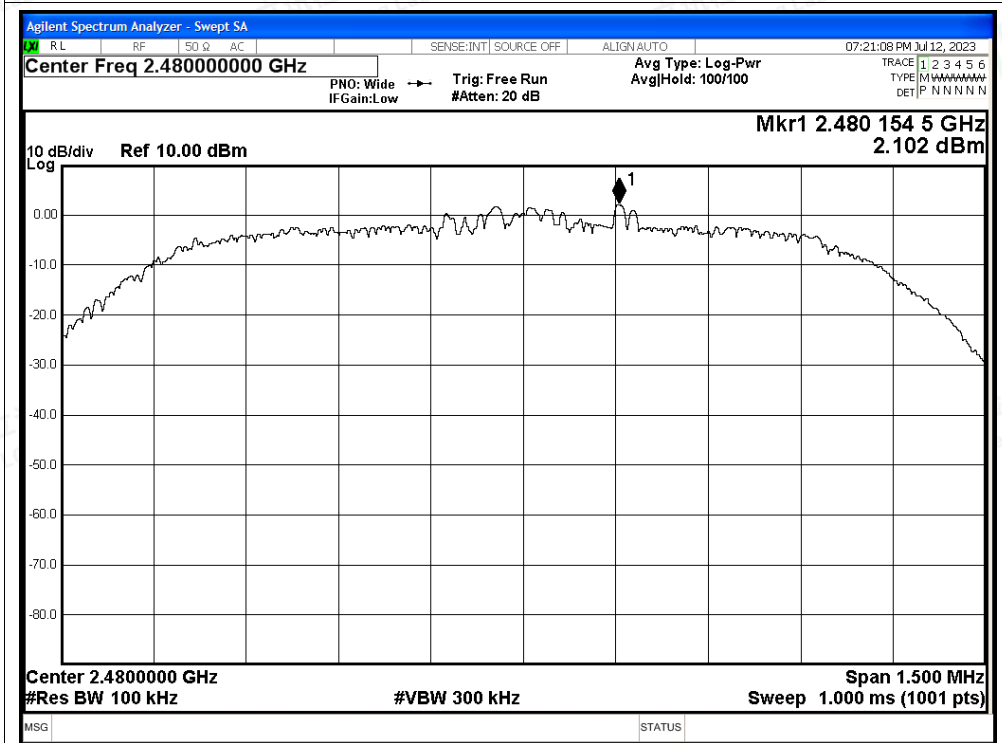


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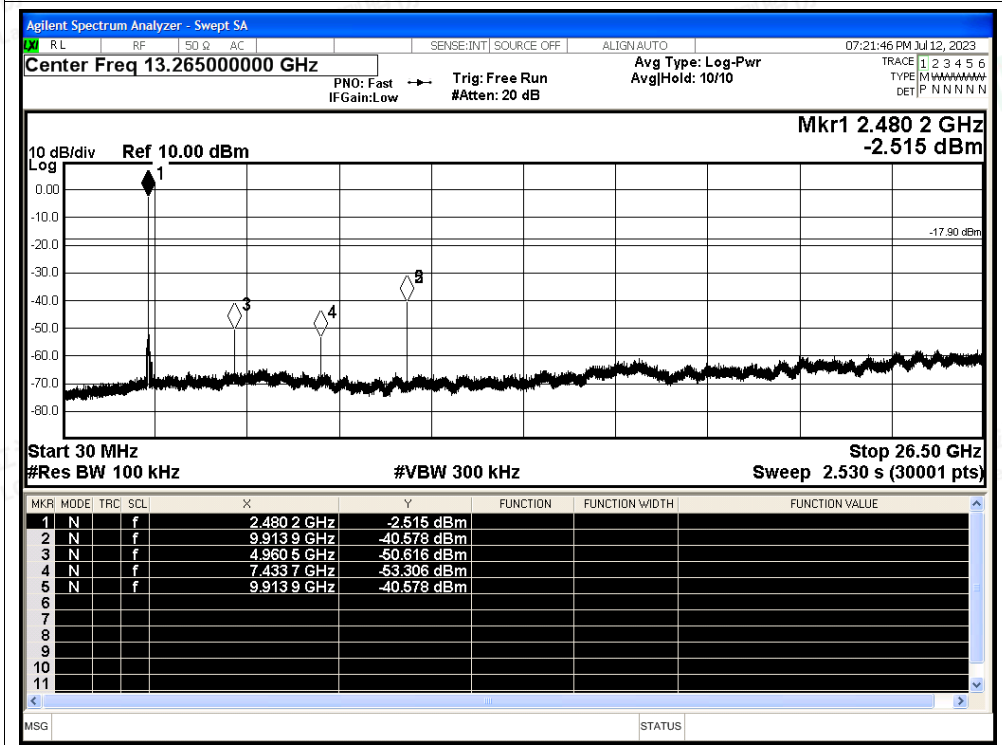




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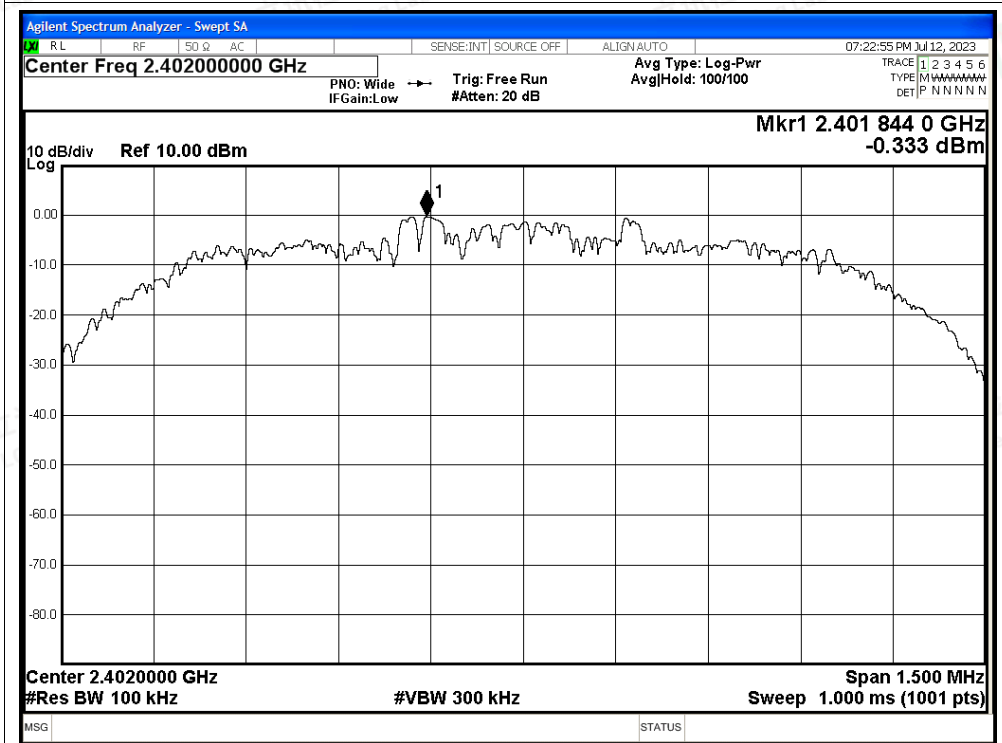


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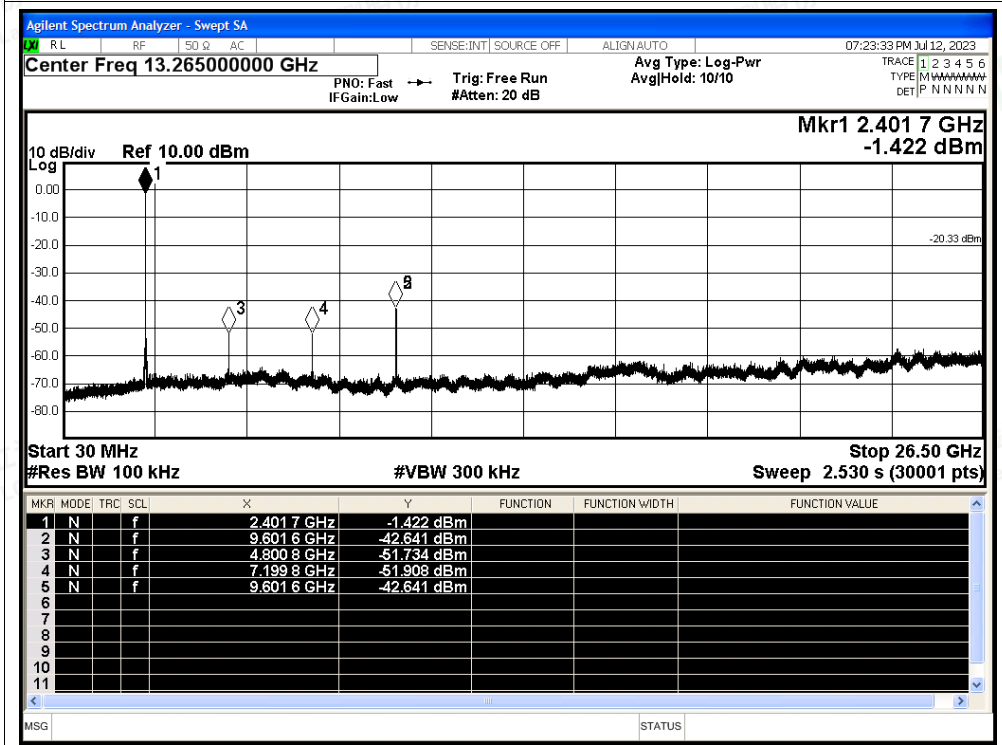




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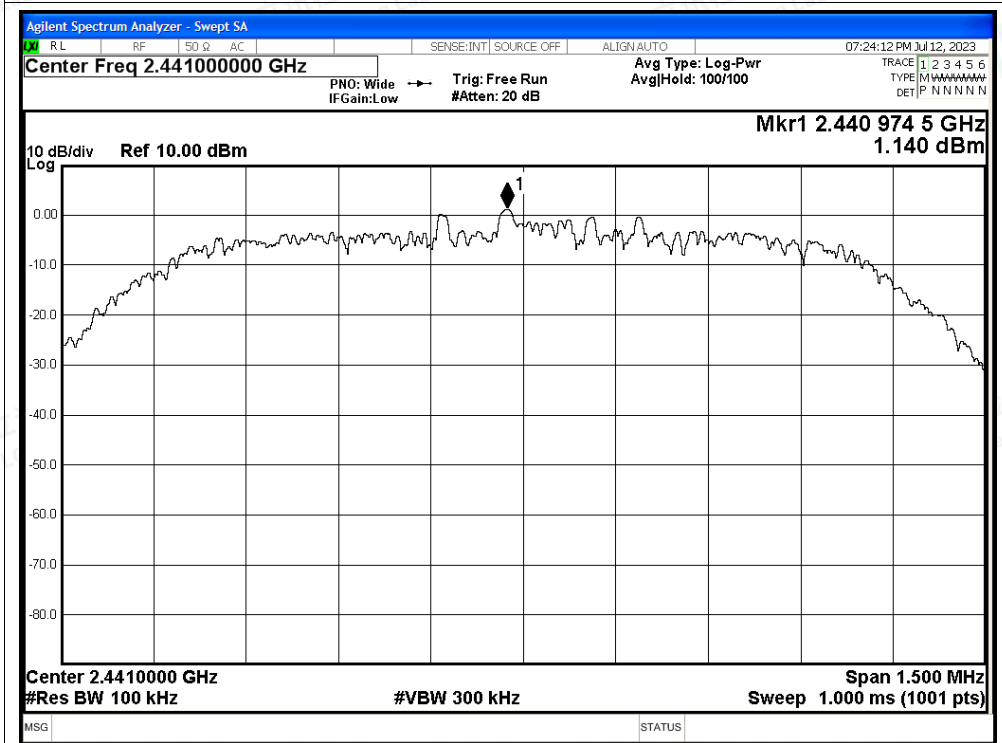


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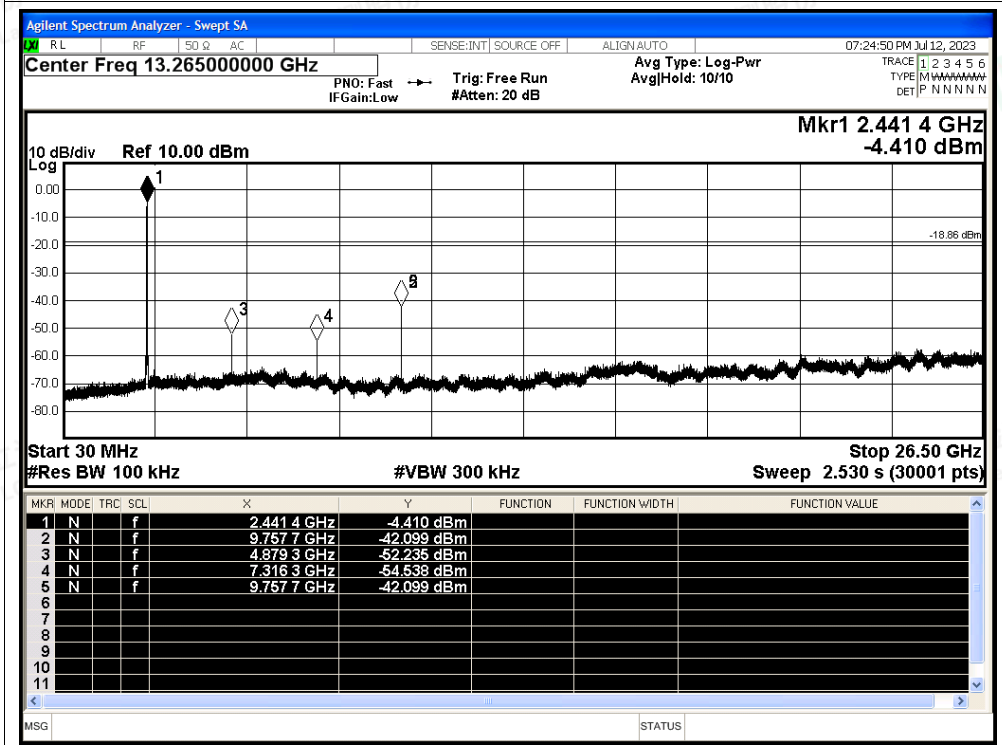




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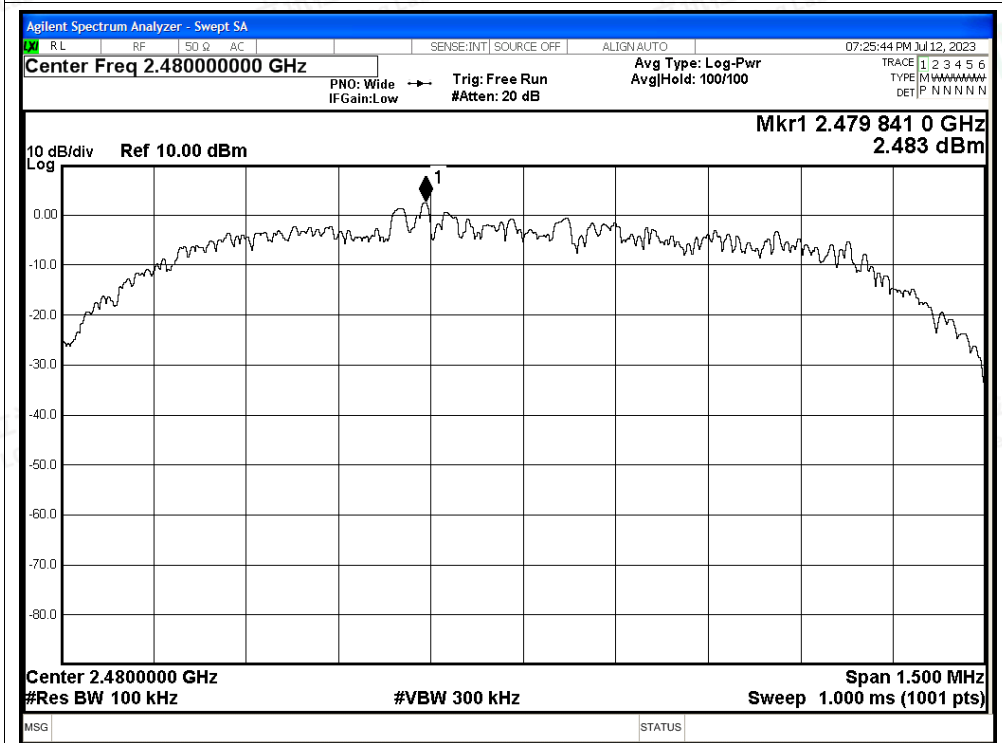


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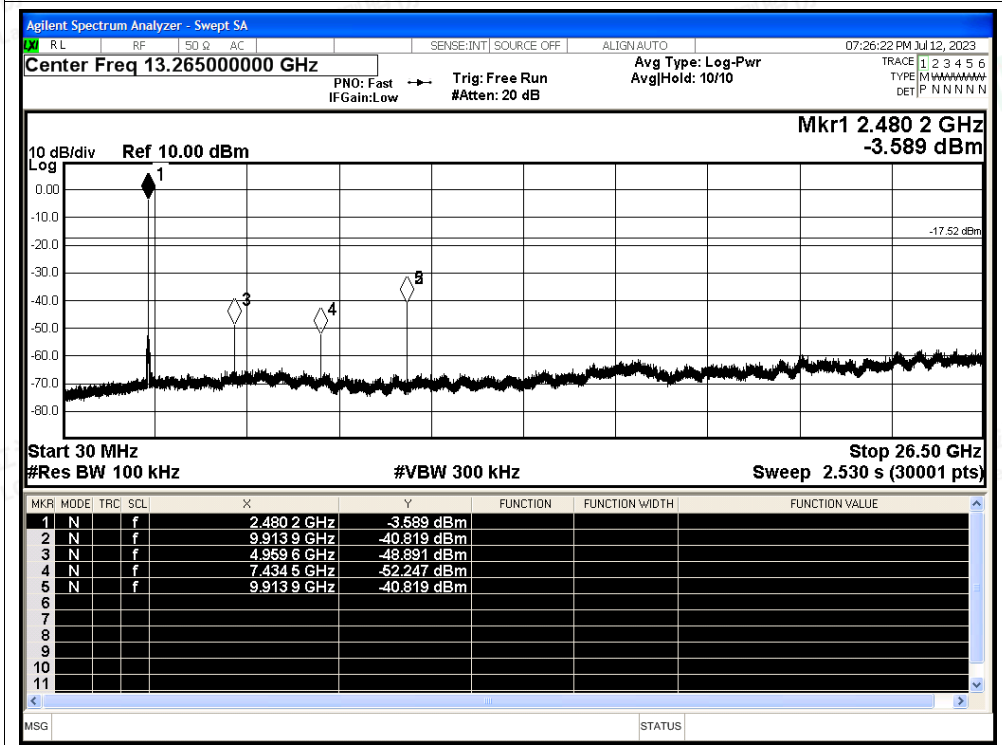




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





### A.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	-54.16	2.21	43.28	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-62.04	2.21	35.40	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2381.712	-44.41	2.21	53.03	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2380.56	-55.89	2.21	41.55	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-45.22	2.21	52.22	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.43	2.21	40.01	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-42.27	2.21	55.17	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.85	2.21	48.59	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2496.808	-41.3	2.21	56.14	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-48.85	2.21	48.59	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-44.08	2.21	53.36	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-53.47	2.21	43.97	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.9	2.21	45.54	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-62.14	2.21	35.30	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2381.616	-43.71	2.21	53.73	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2382	-55.91	2.21	41.53	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.82	2.21	47.62	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.63	2.21	39.81	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-41.95	2.21	55.49	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-51.67	2.21	45.77	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.848	-41.43	2.21	56.01	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-51.67	2.21	45.77	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-44.4	2.21	53.04	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-53.36	2.21	44.08	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.43	2.21	45.01	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-62.06	2.21	35.38	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2382.288	-44.41	2.21	53.03	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2380.752	-56.88	2.21	40.56	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.71	2.21	47.73	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.42	2.21	39.02	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-40.61	2.21	56.83	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.05	2.21	39.39	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.56	-39.01	2.21	58.43	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2497.6	-54.32	2.21	43.12	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-42.53	2.21	54.91	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-54.75	2.21	42.69	Average	54	Pass



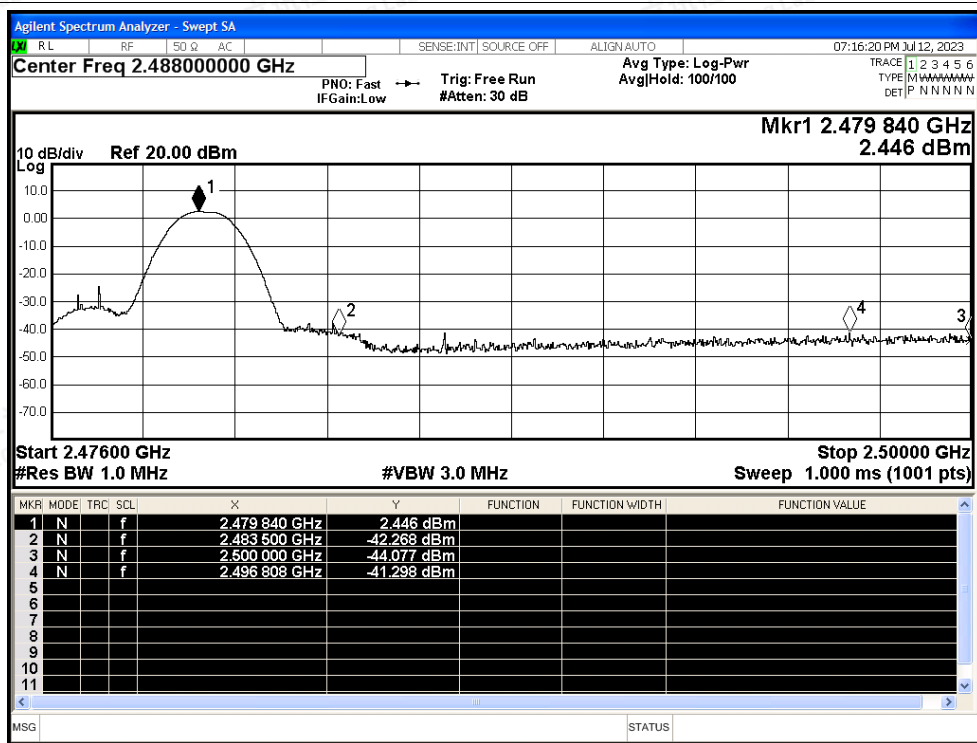
Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity



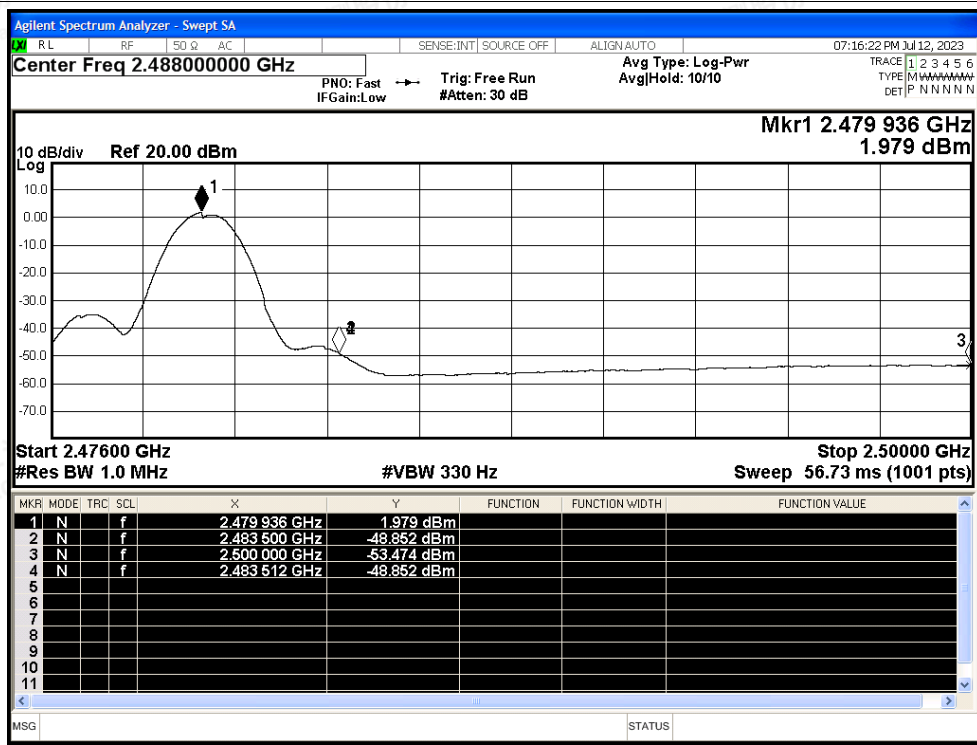




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

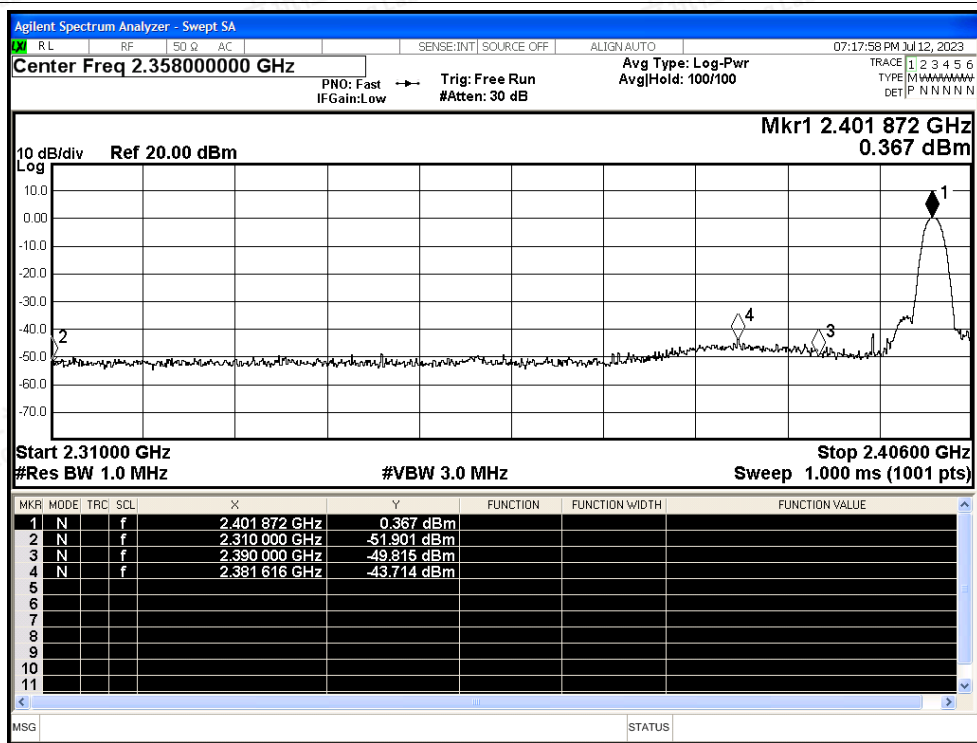


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

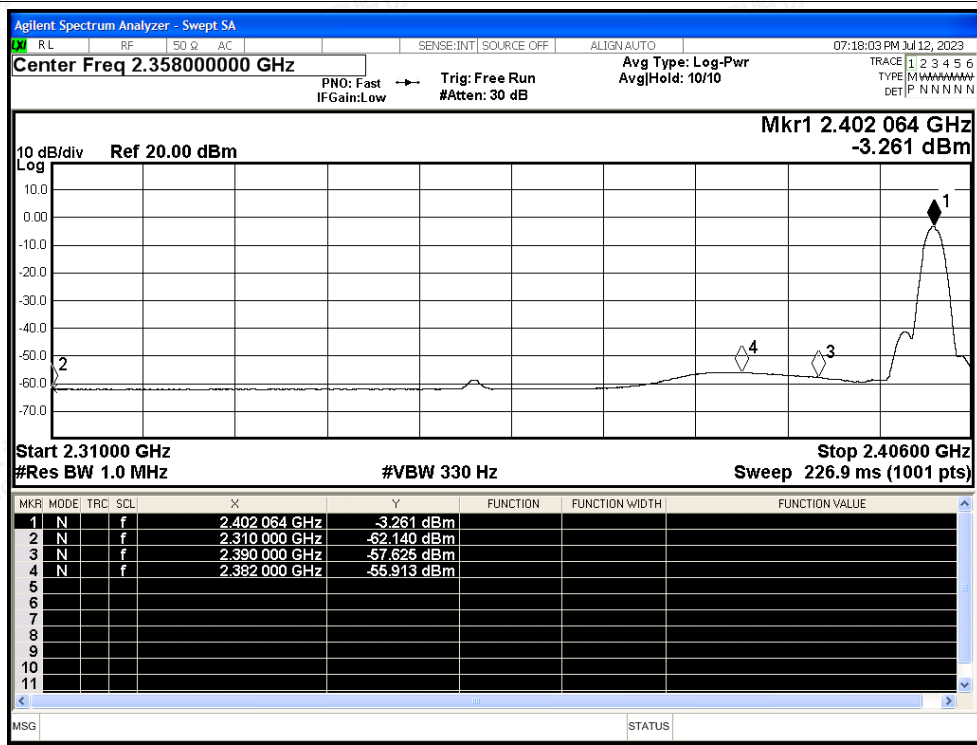




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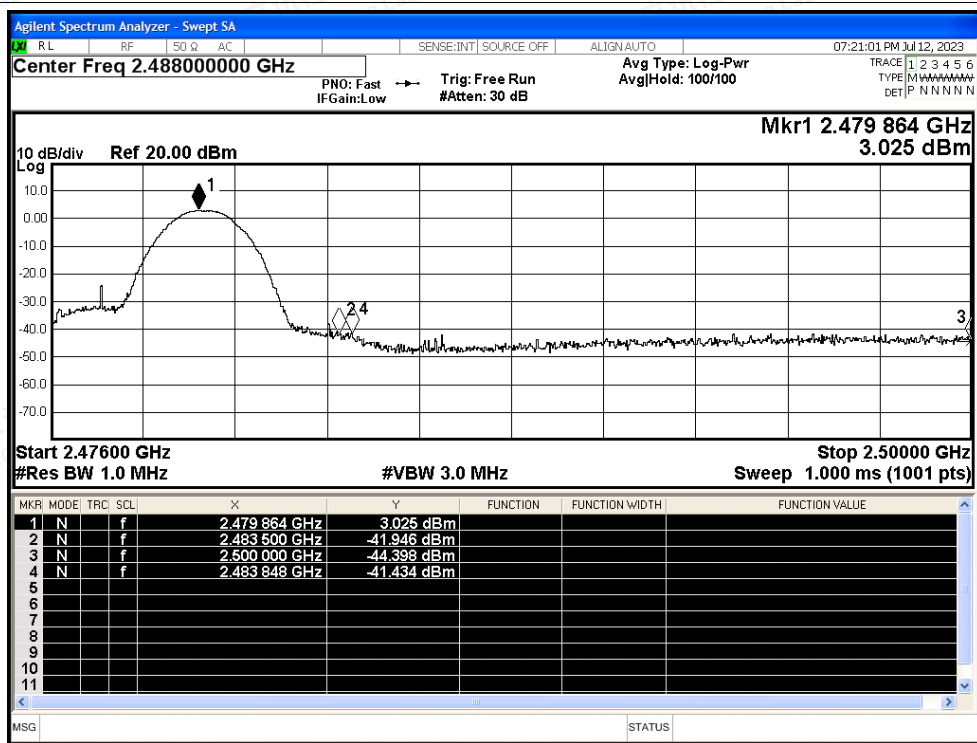


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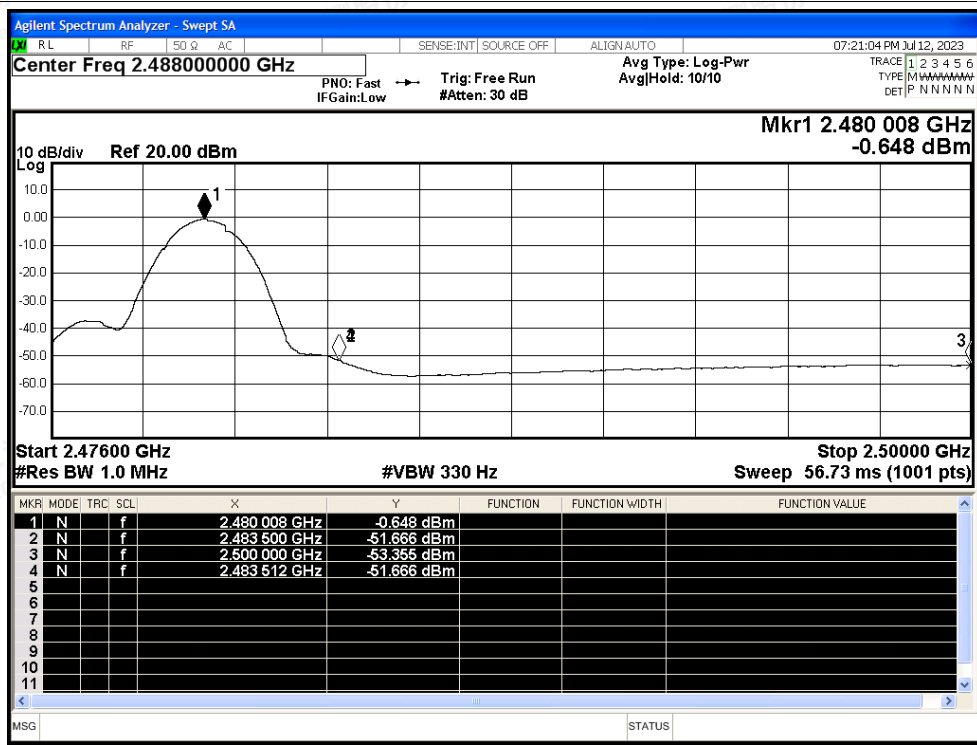




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

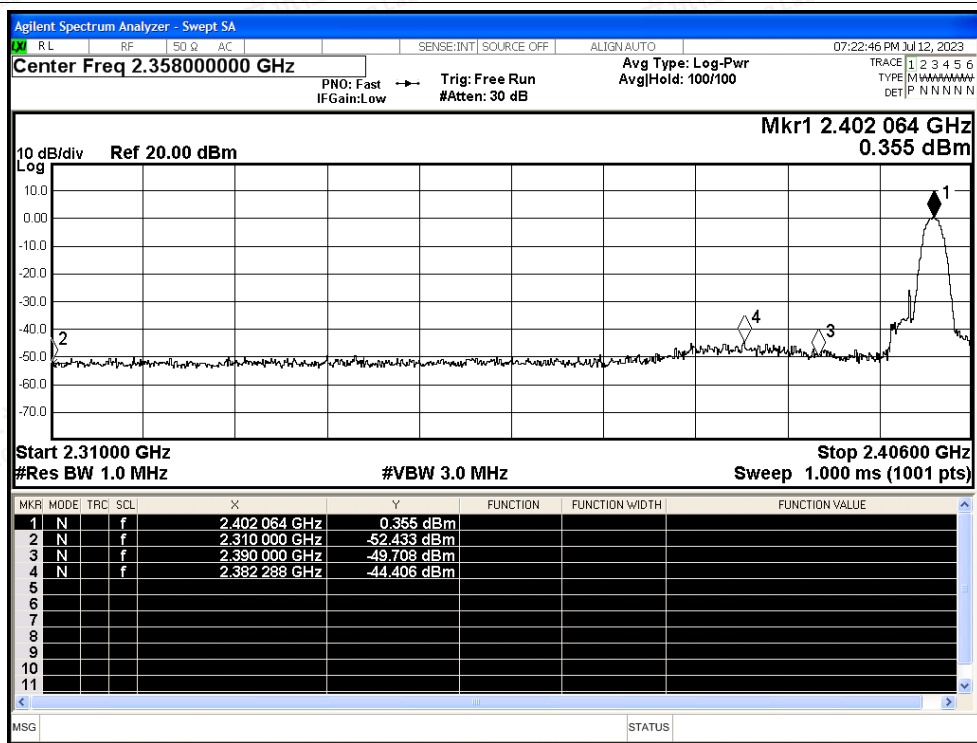


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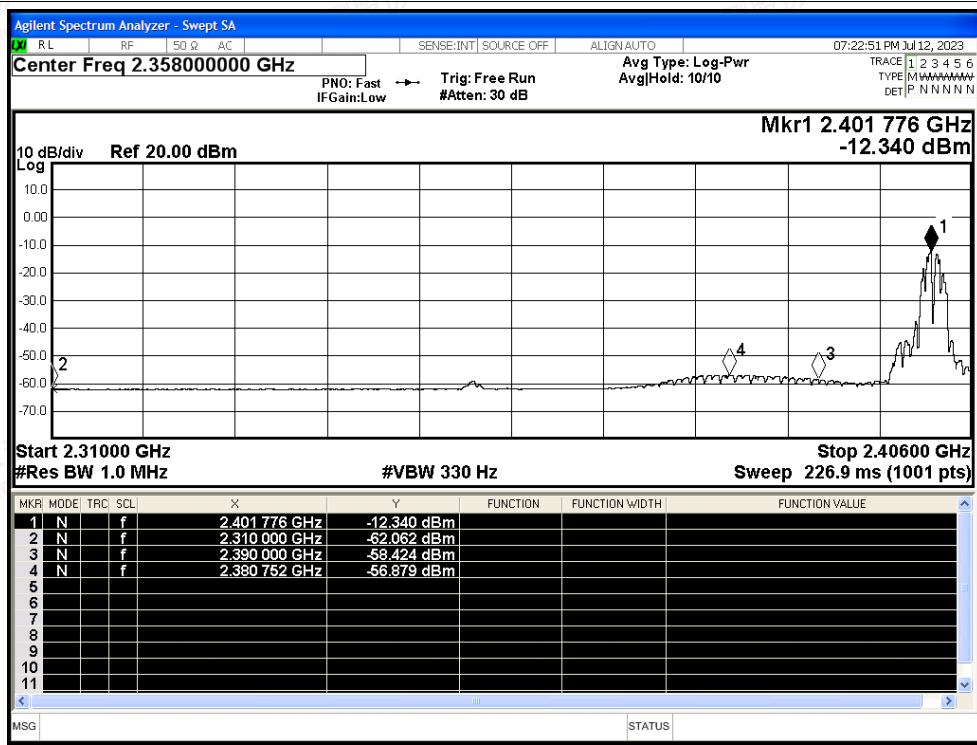




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

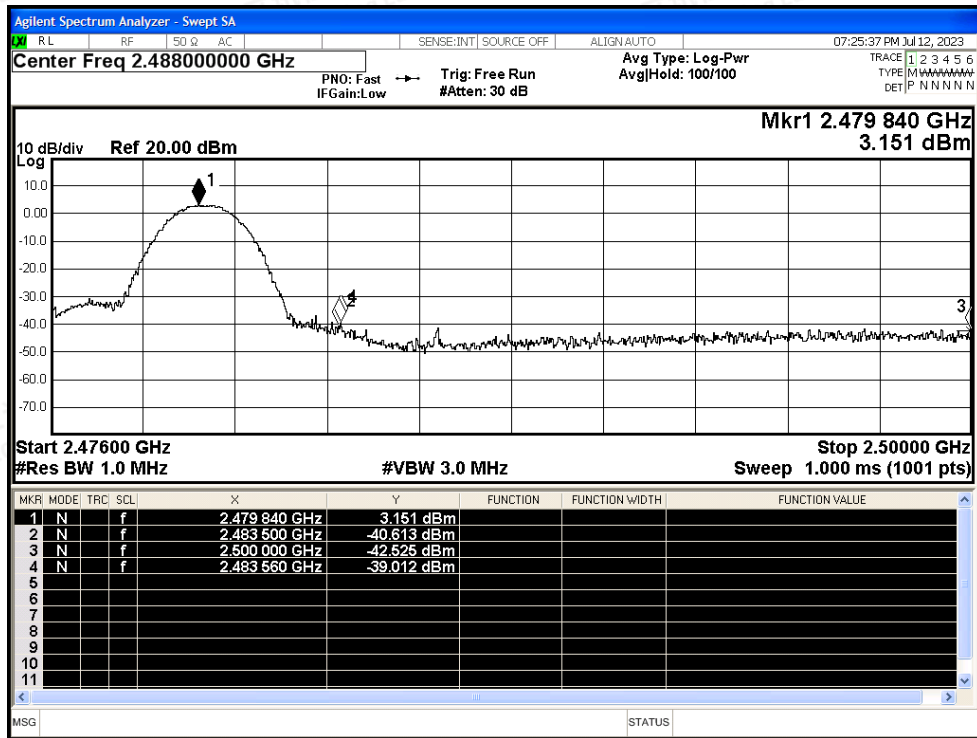


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

