



## Appendix A

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

Product Name: Massage Chair

Test Model: NM-SN500

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
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	1.024	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.008	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.018	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.291	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.277	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.281	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.305	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.294	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.288	N/A	Pass

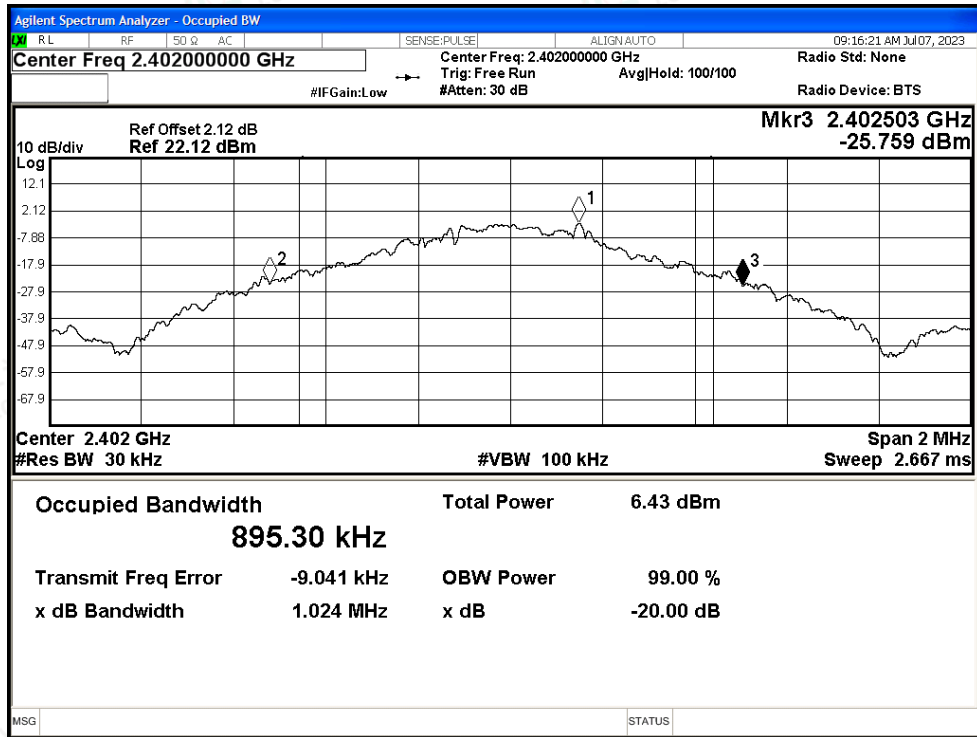


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Scan code to check authenticity

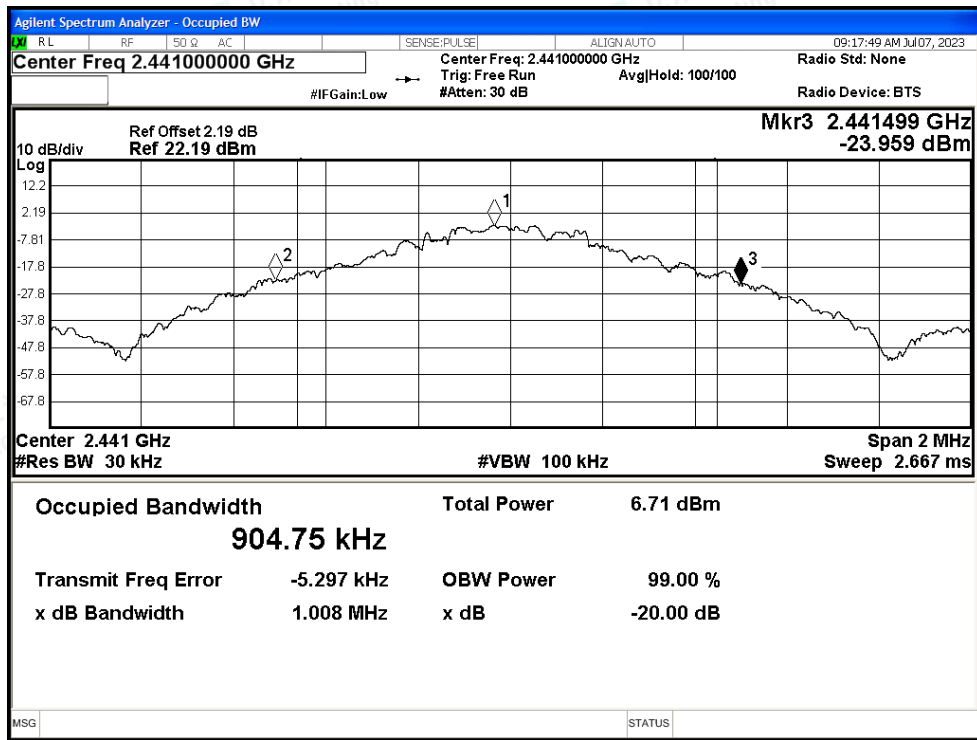


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

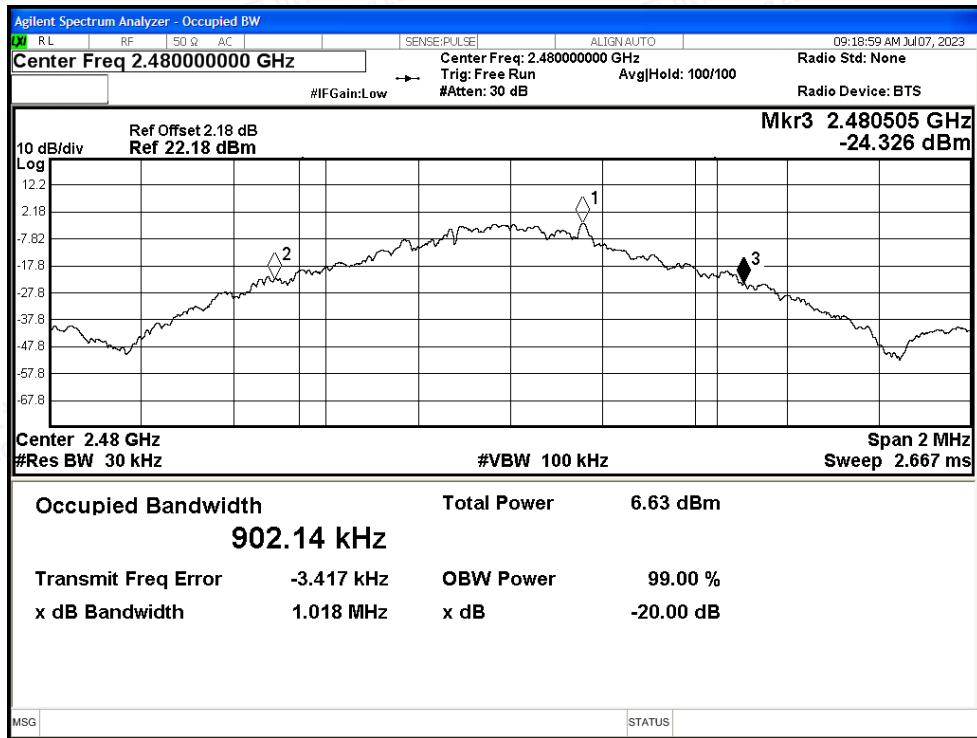


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

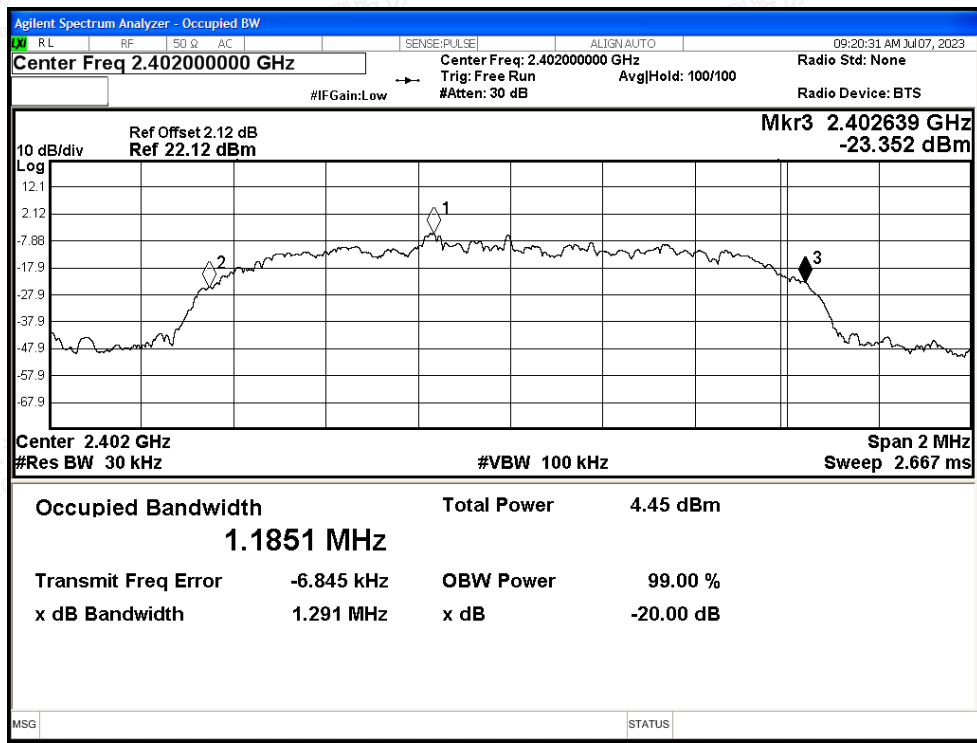




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

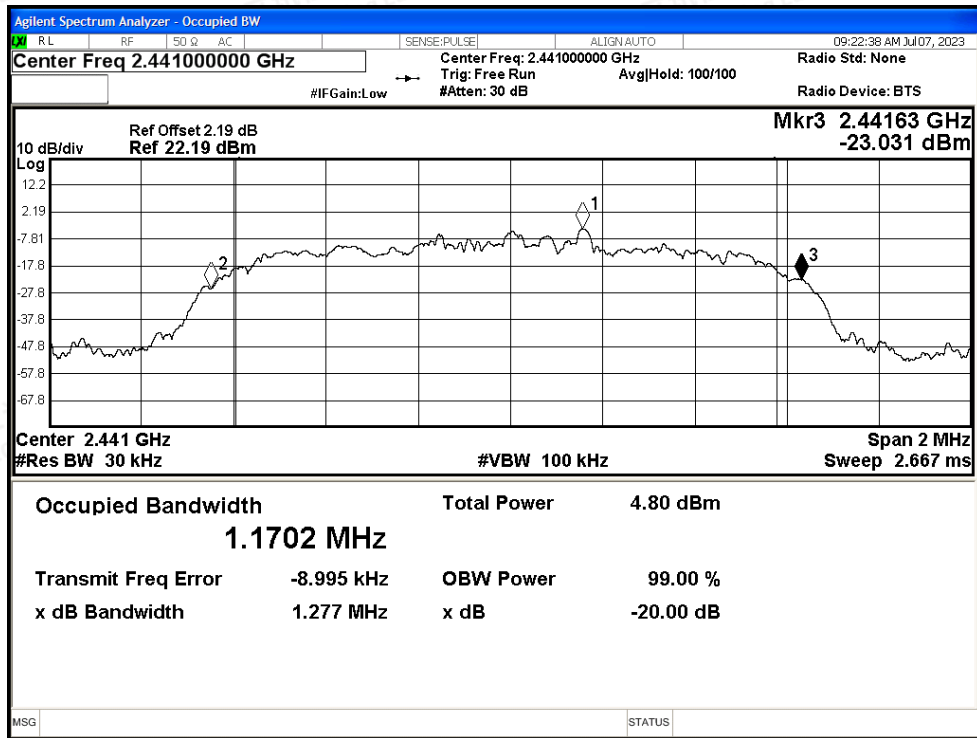


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

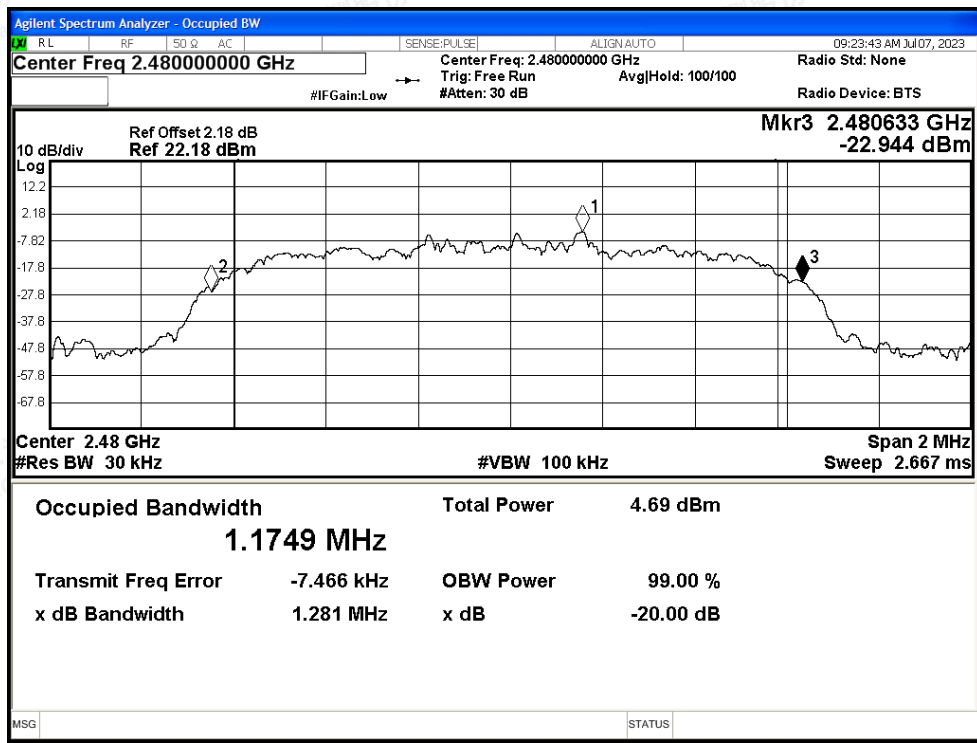




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

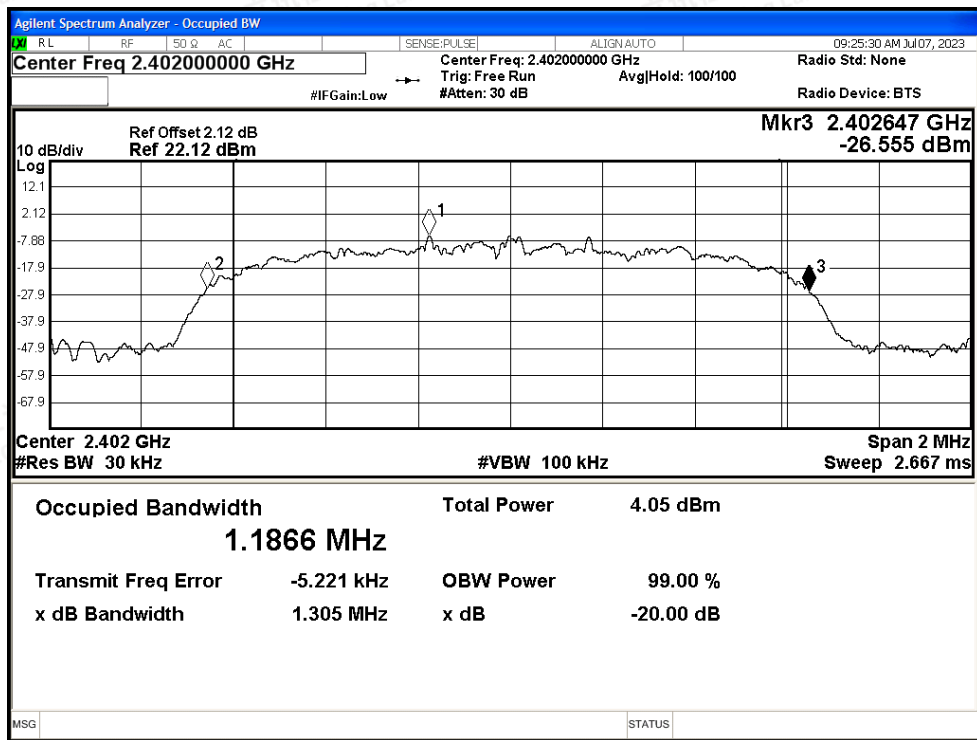


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

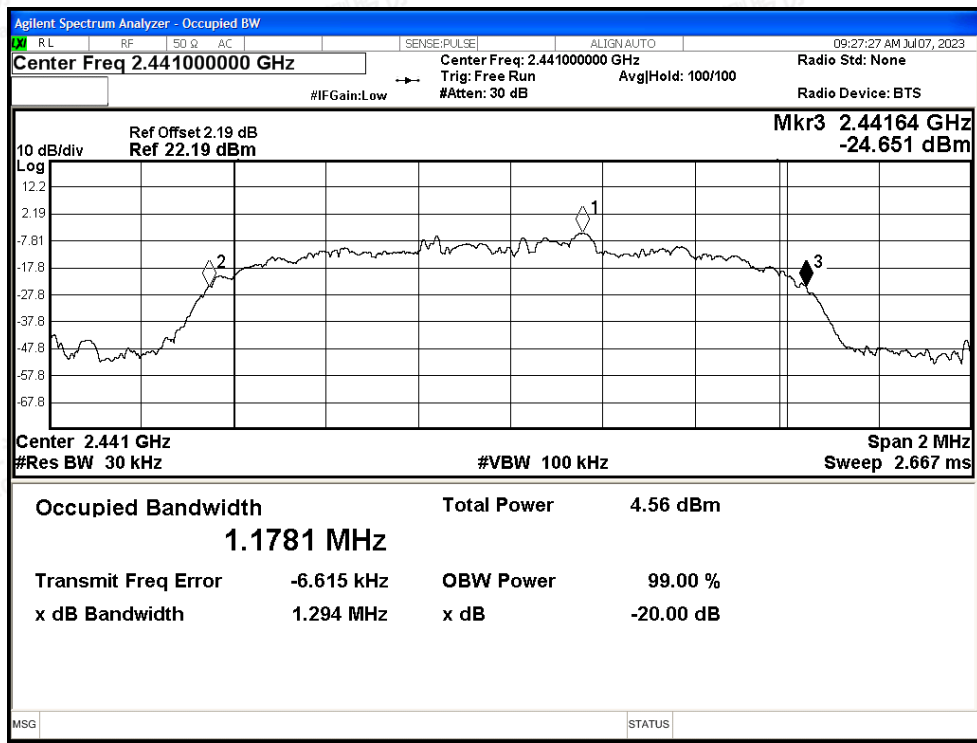




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

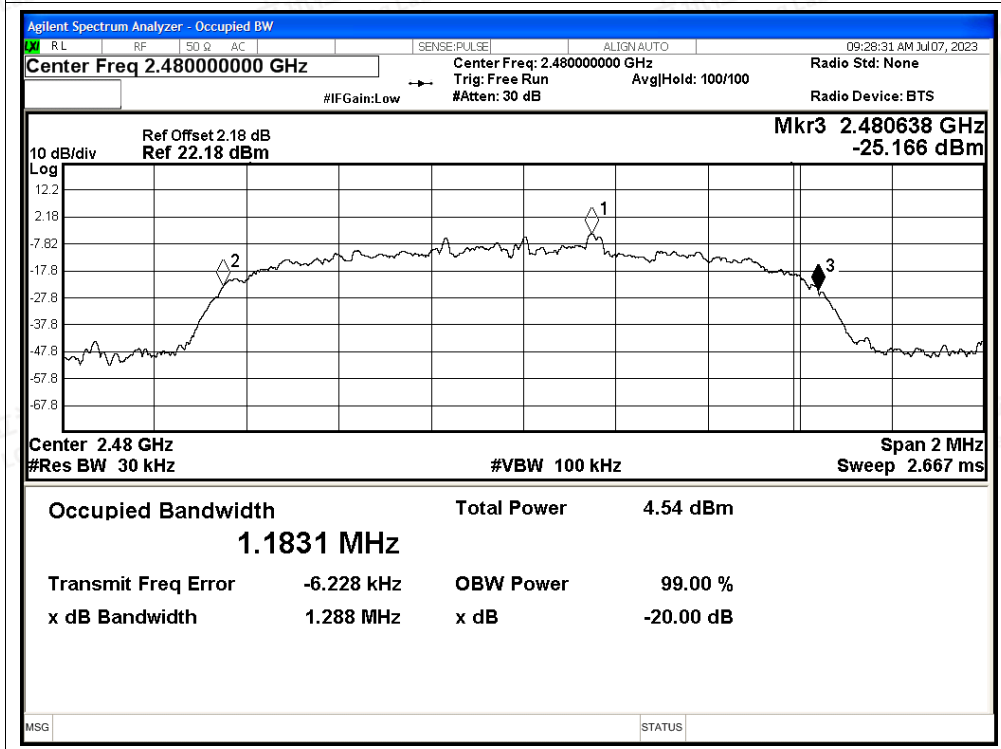


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





## A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.25	21	Pass
NVNT	1-DH5	2441	Ant1	0.48	21	Pass
NVNT	1-DH5	2480	Ant1	0.51	21	Pass
NVNT	2-DH5	2402	Ant1	0.12	21	Pass
NVNT	2-DH5	2441	Ant1	0.32	21	Pass
NVNT	2-DH5	2480	Ant1	0.37	21	Pass
NVNT	3-DH5	2402	Ant1	0.20	21	Pass
NVNT	3-DH5	2441	Ant1	0.08	21	Pass
NVNT	3-DH5	2480	Ant1	0.08	21	Pass

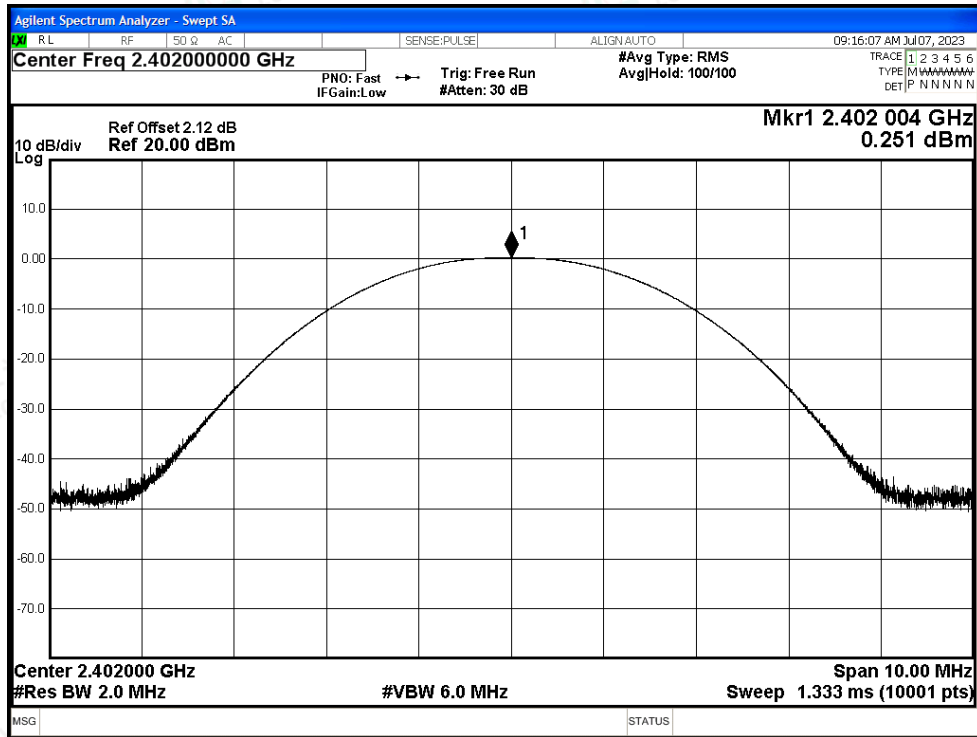




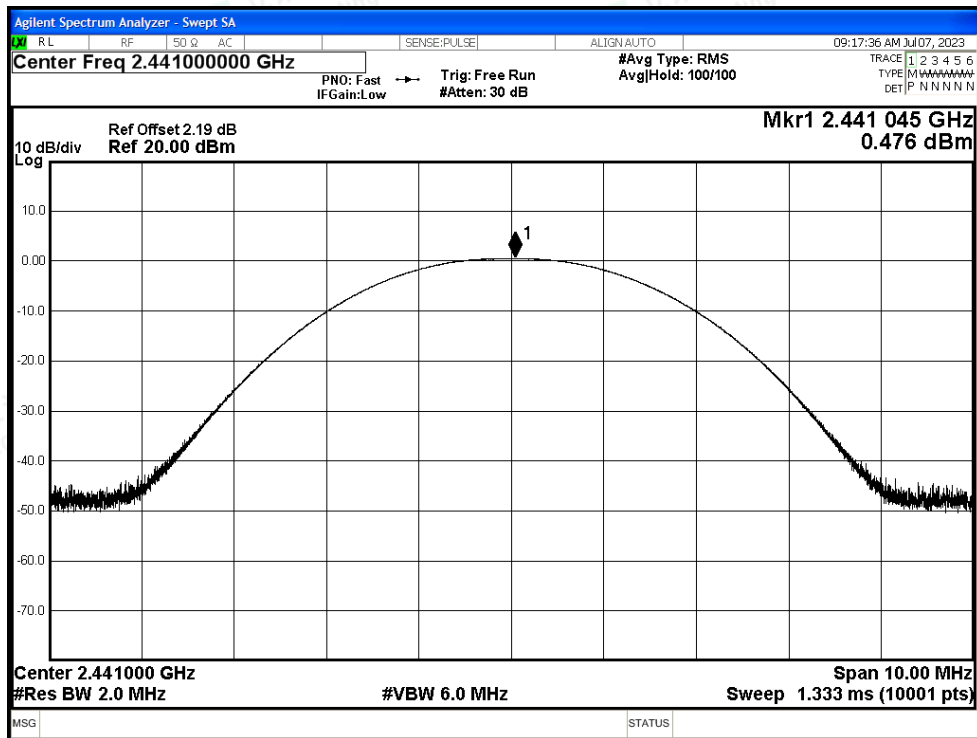


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

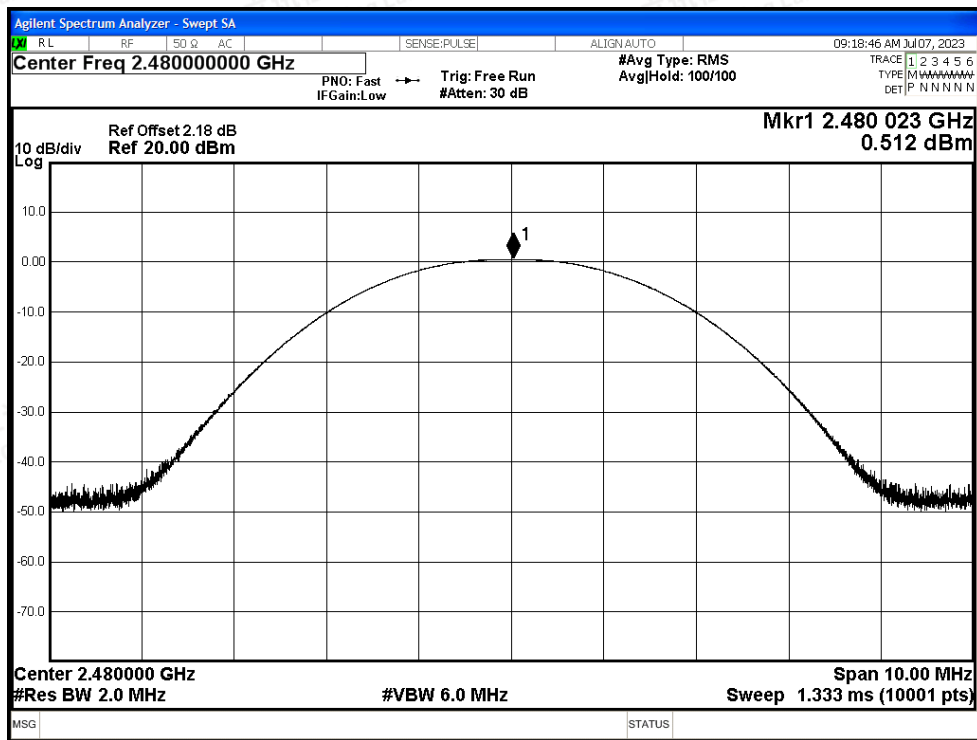


Power NVNT 1-DH5 2441MHz Ant1

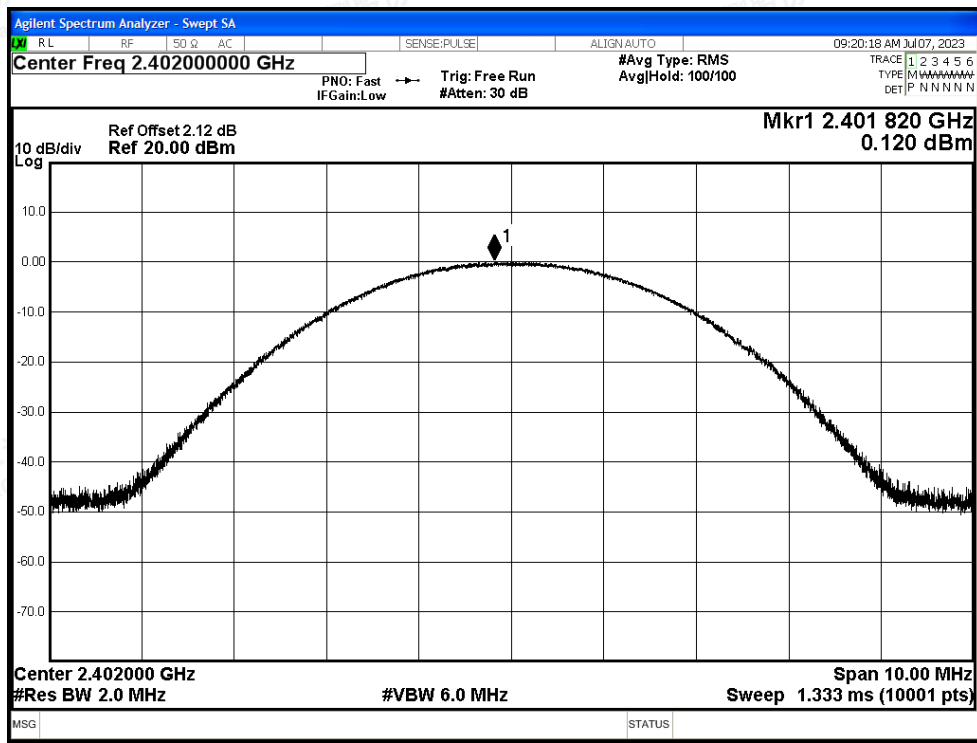




Power NVNT 1-DH5 2480MHz Ant1

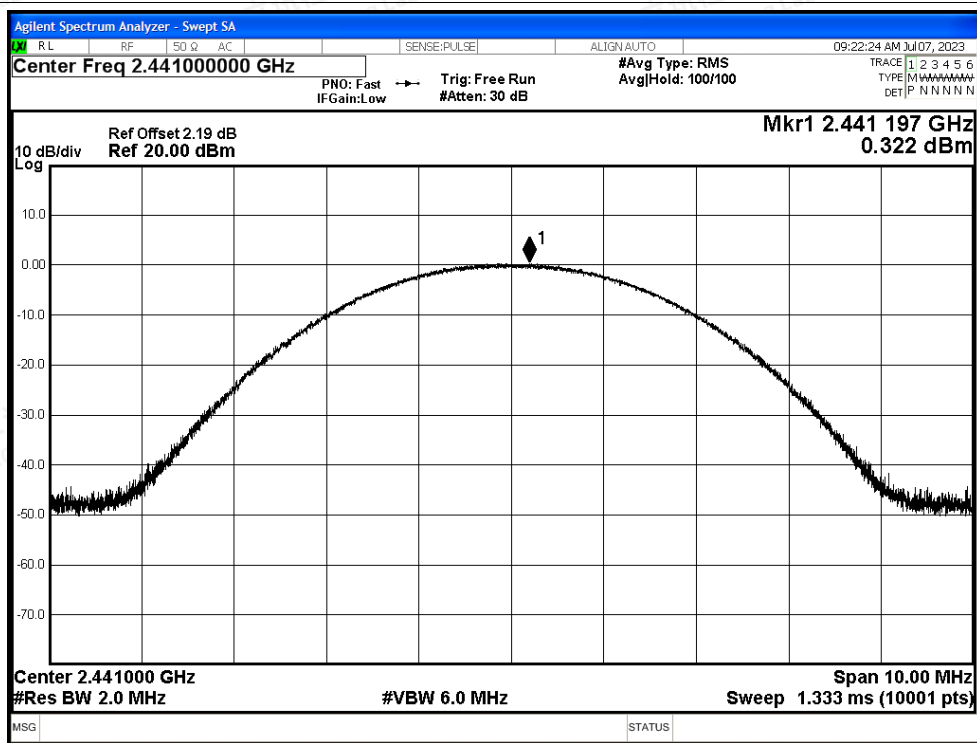


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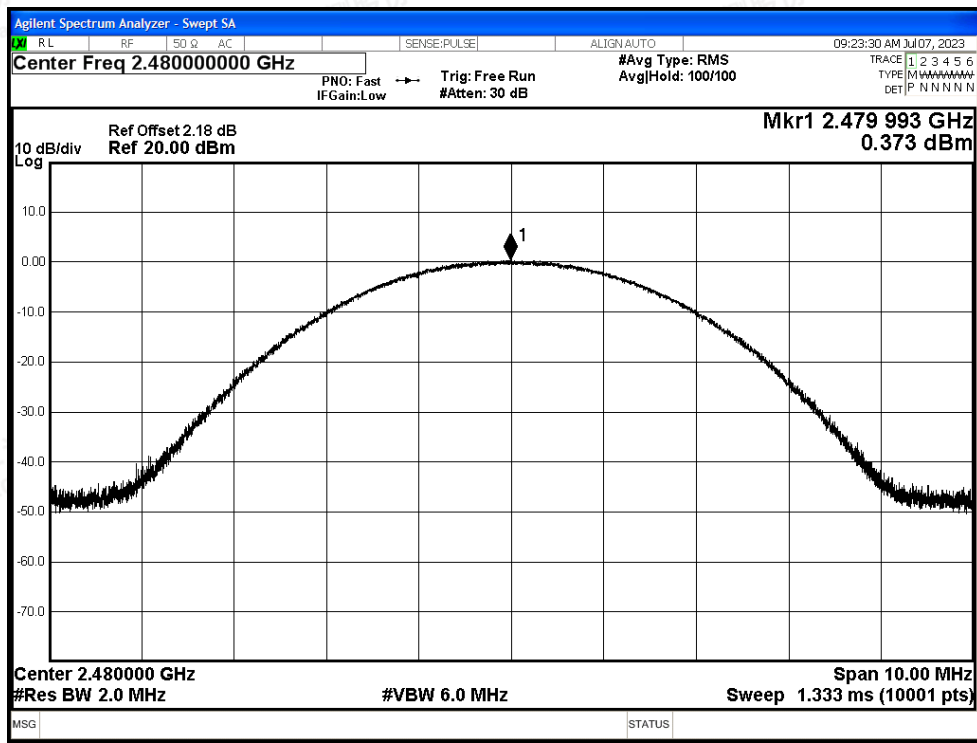




Power NVNT 2-DH5 2441MHz Ant1

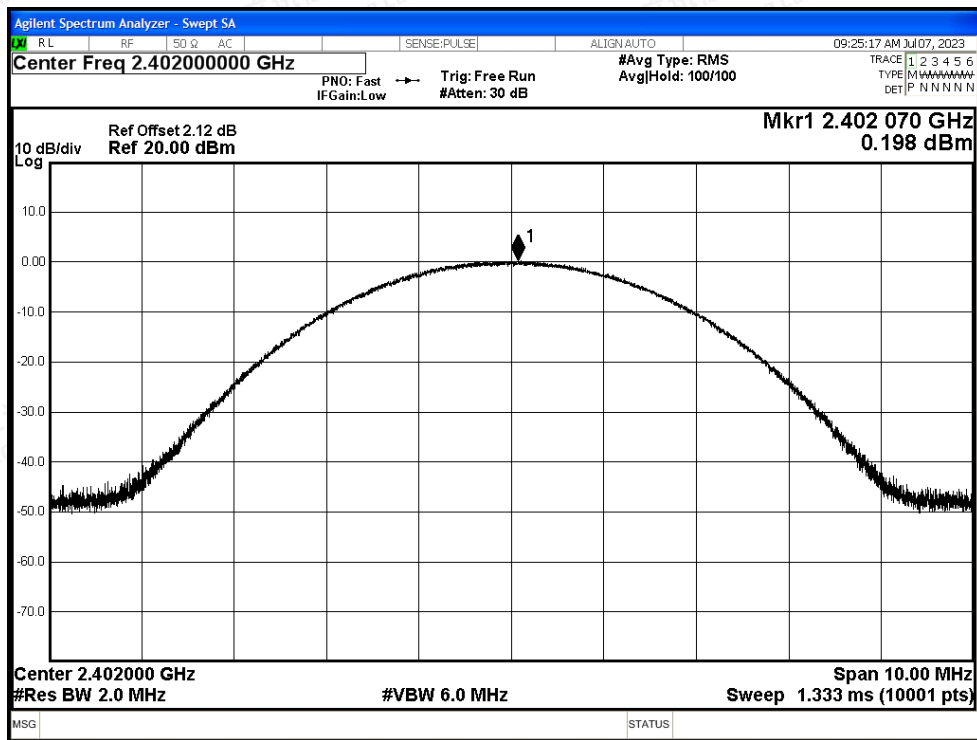


Power NVNT 2-DH5 2480MHz Ant1

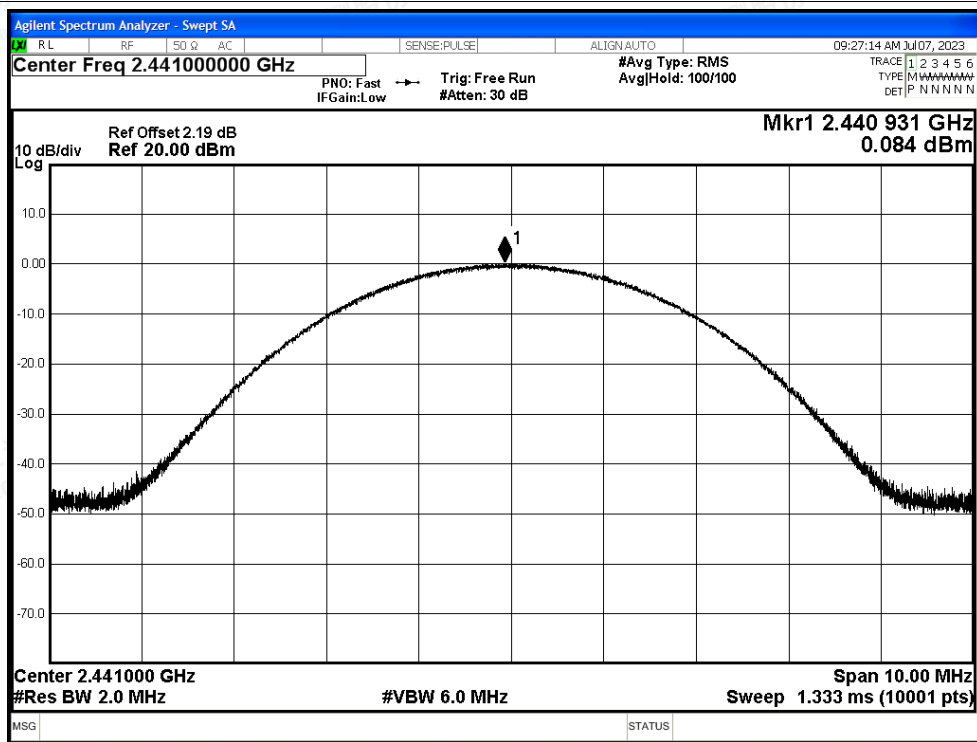




Power NVNT 3-DH5 2402MHz Ant1

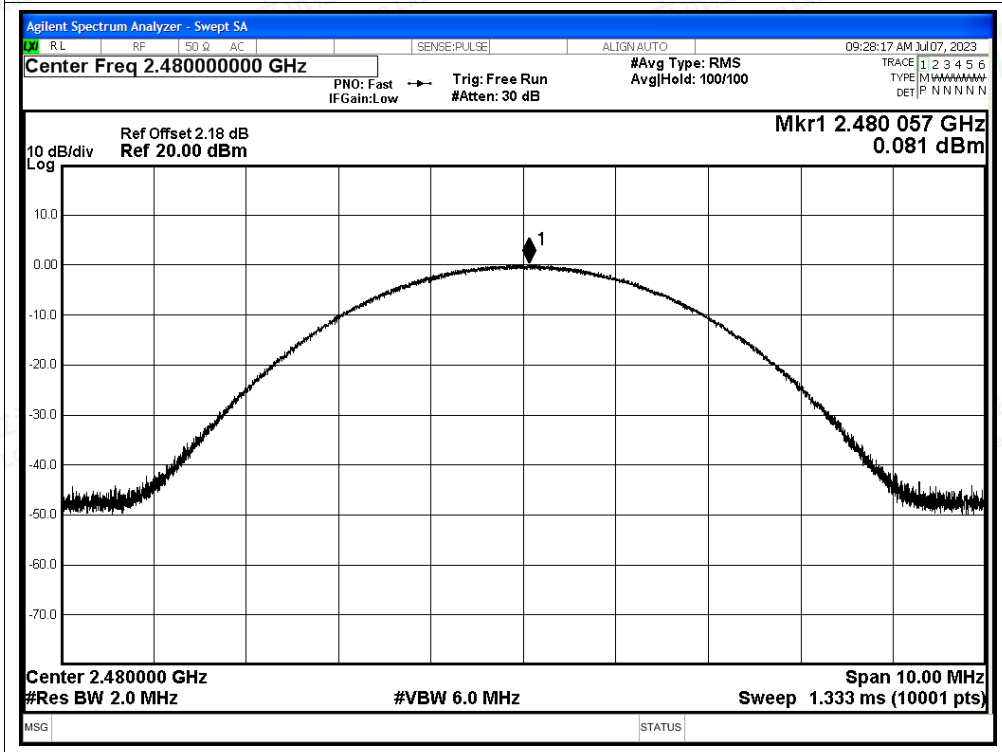


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-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	2402.006	2402.99	0.984	0.683	Pass
NVNT	2-DH5	Ant1	2402.162	2403.158	0.996	0.861	Pass
NVNT	3-DH5	Ant1	2402.154	2403.16	1.006	0.870	Pass

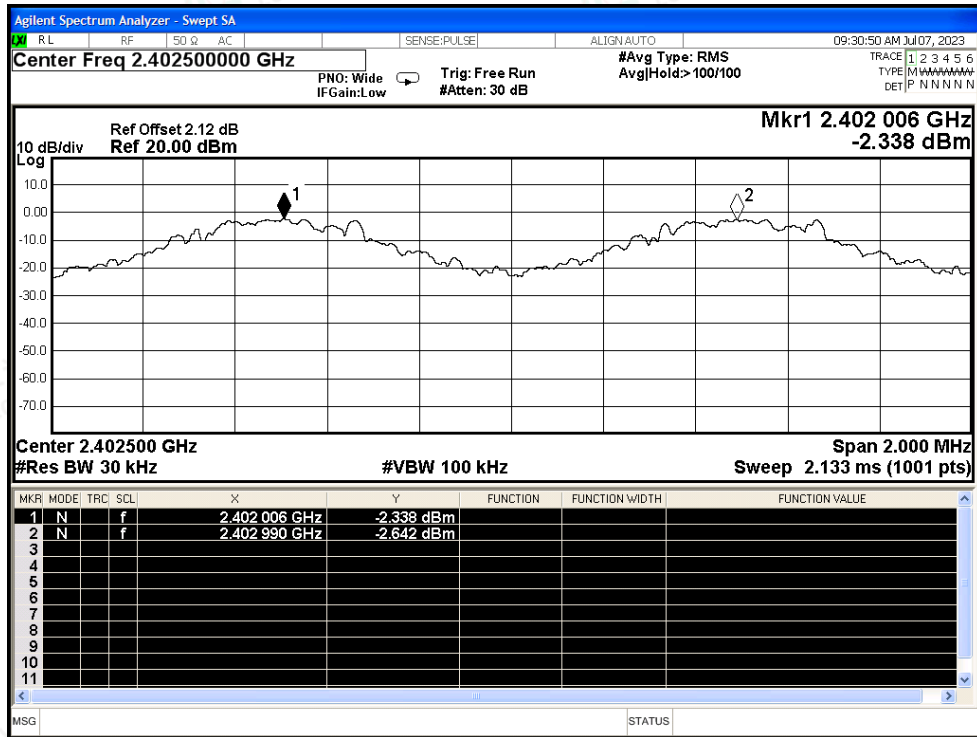


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Scan code to check authenticity

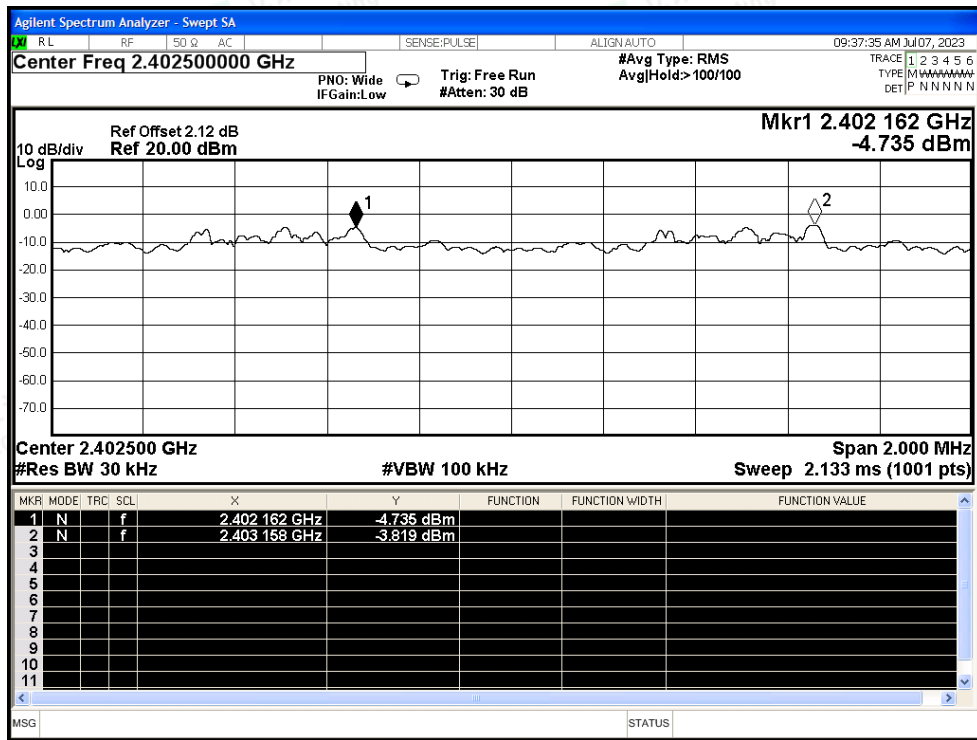


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

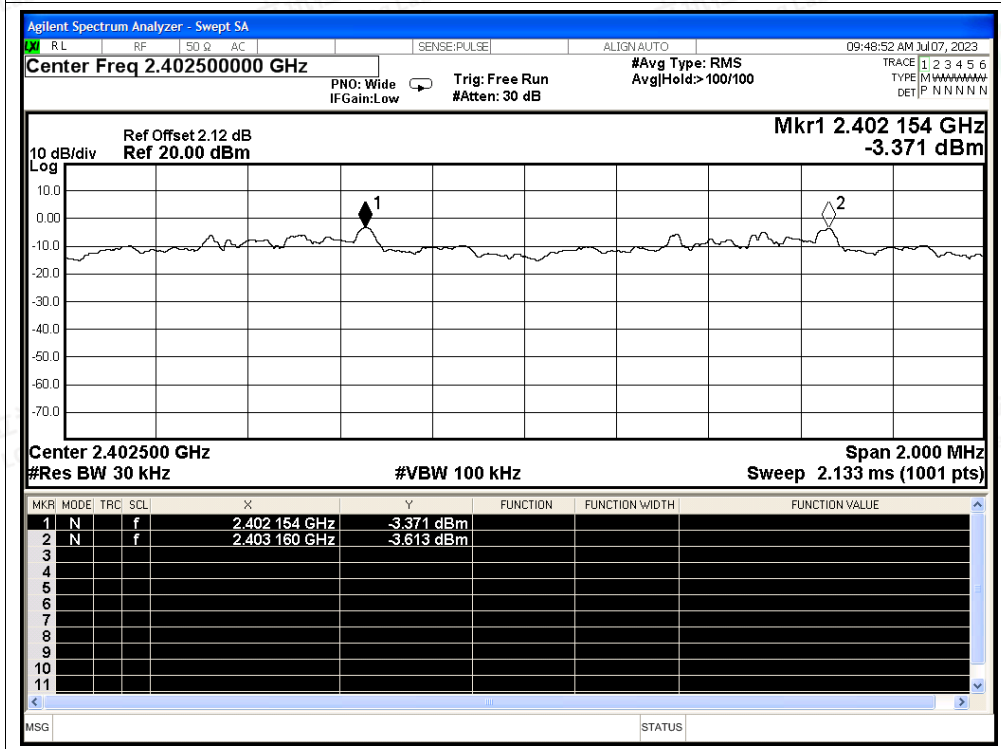


CFS NVNT 2-DH5 2402MHz Ant1





CFS NVNT 3-DH5 2402MHz Ant1







### A.4 Dwell Time

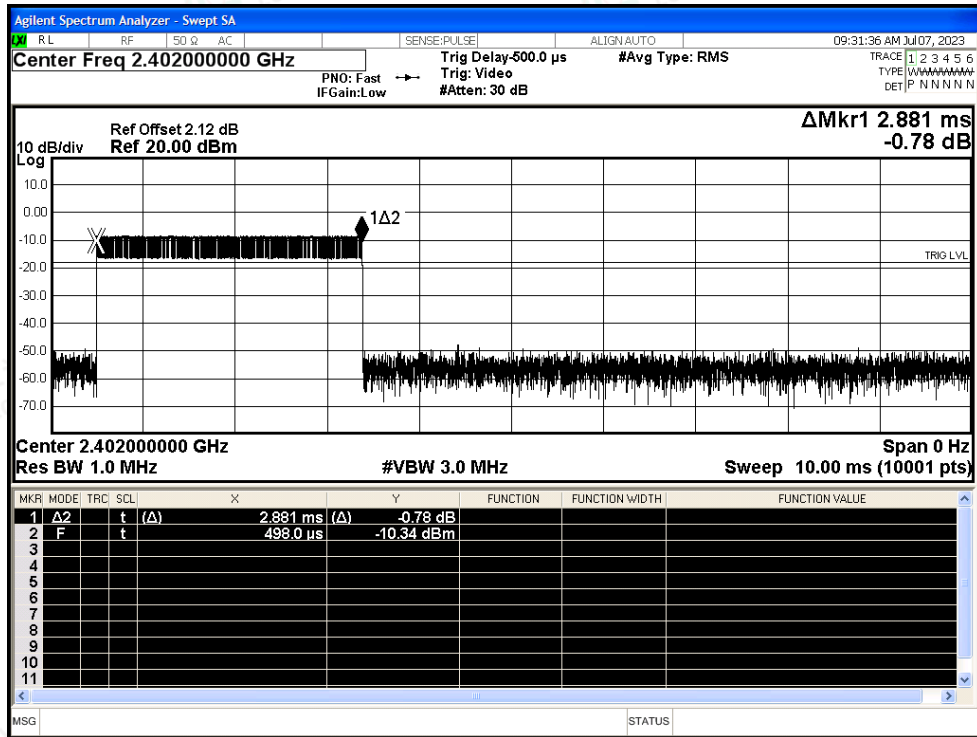
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.881	319.791	111	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	328.89	114	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	314.683	109	31600	400	Pass



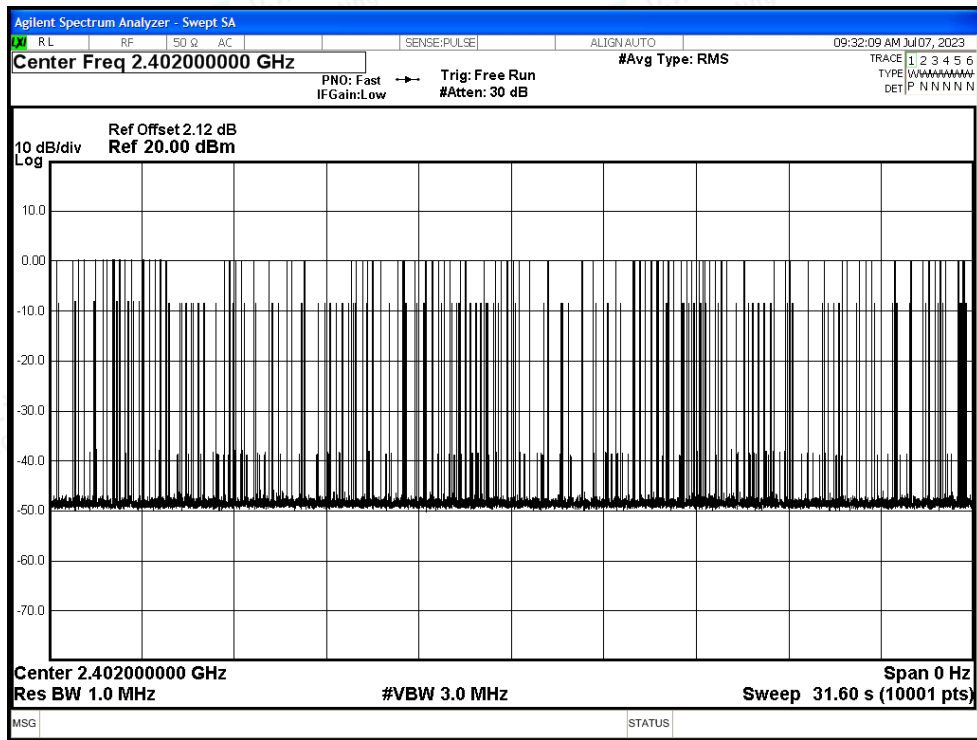


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

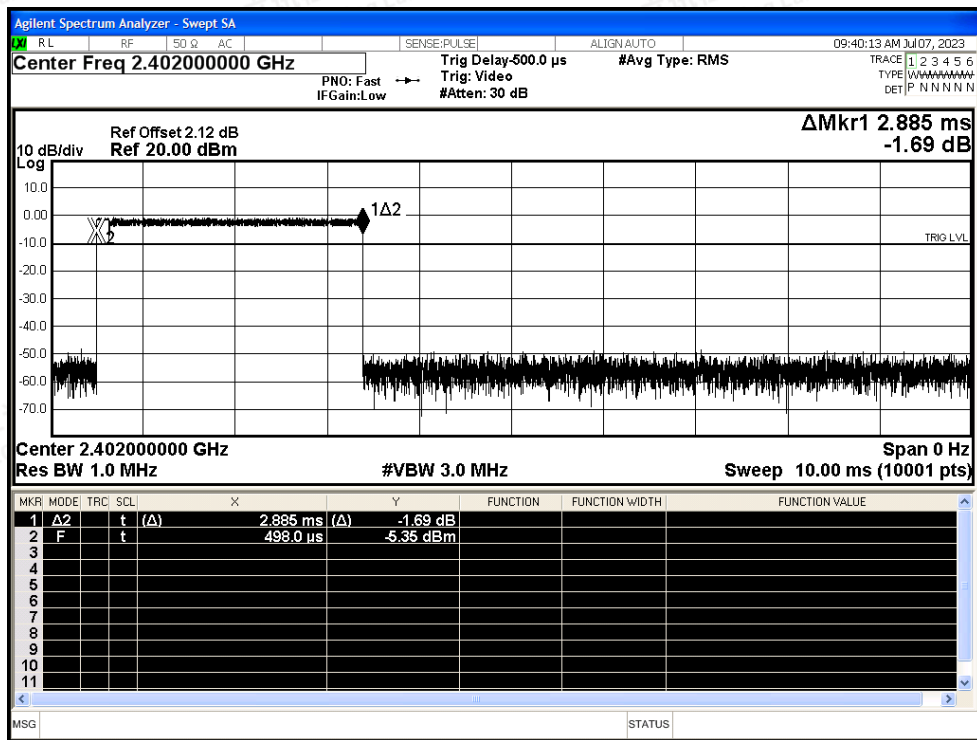


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

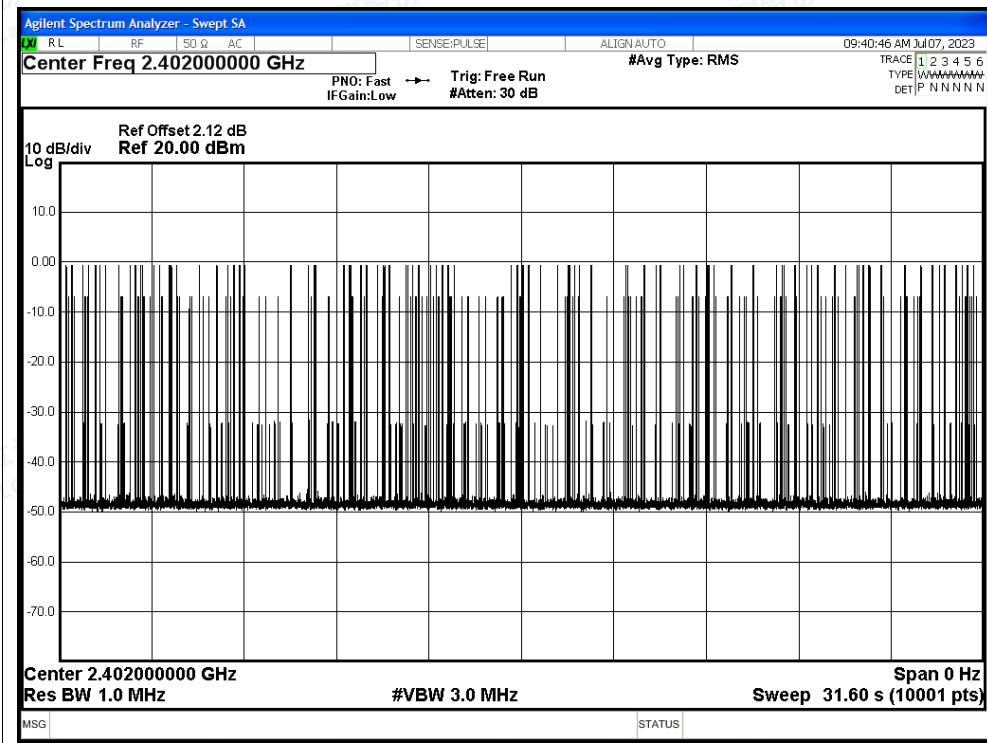




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

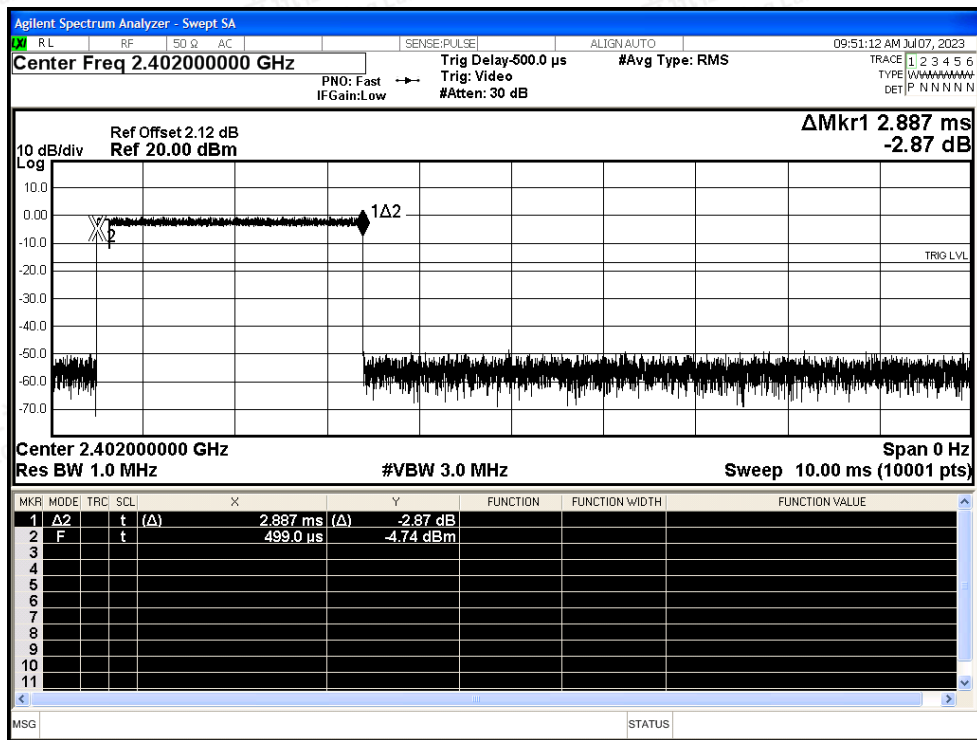


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

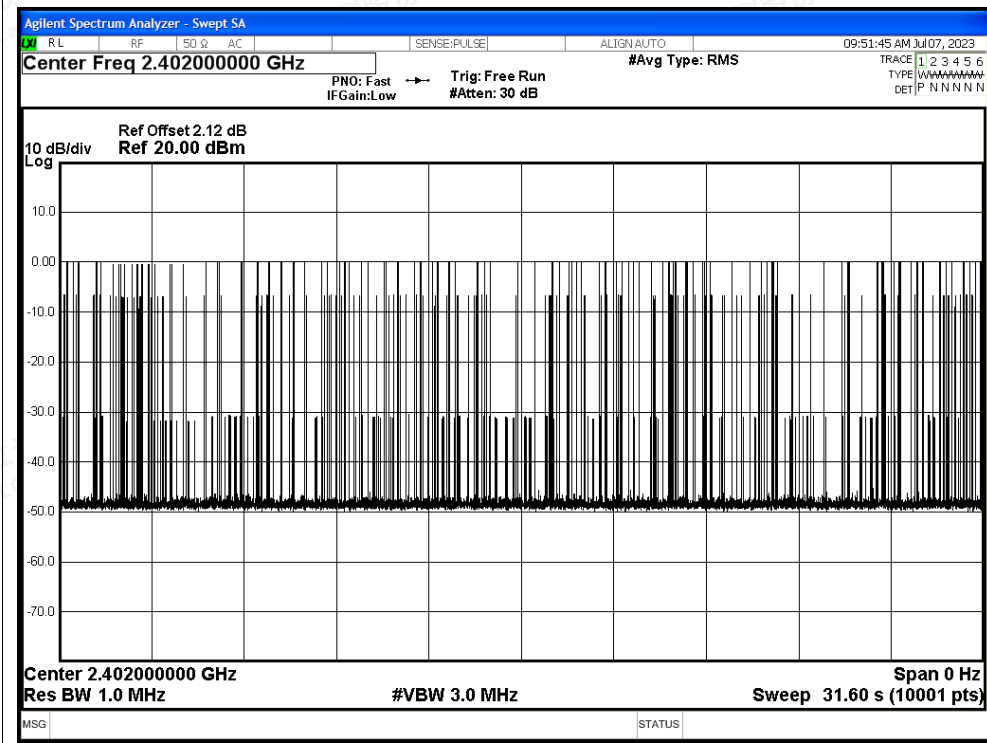




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





## A.5 Number of Hopping Channel

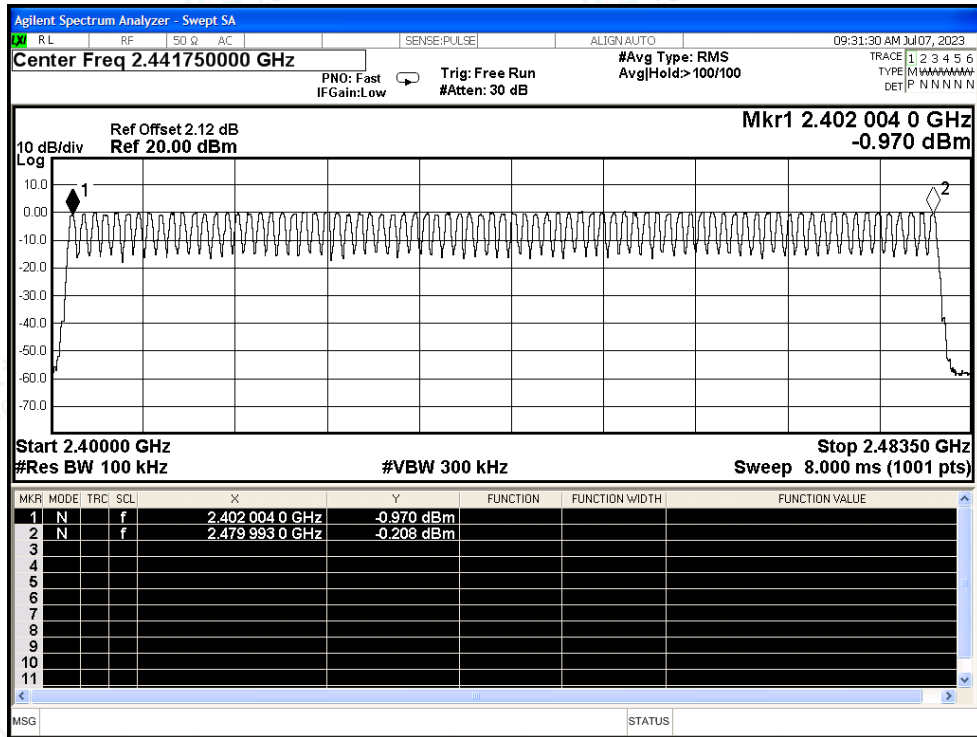
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



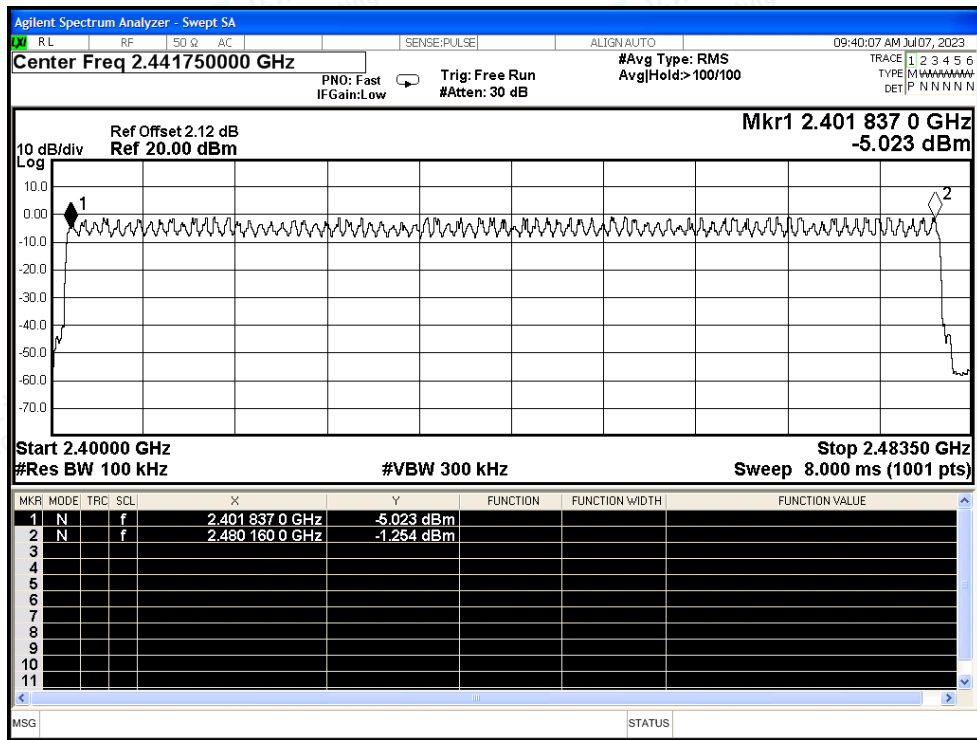


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

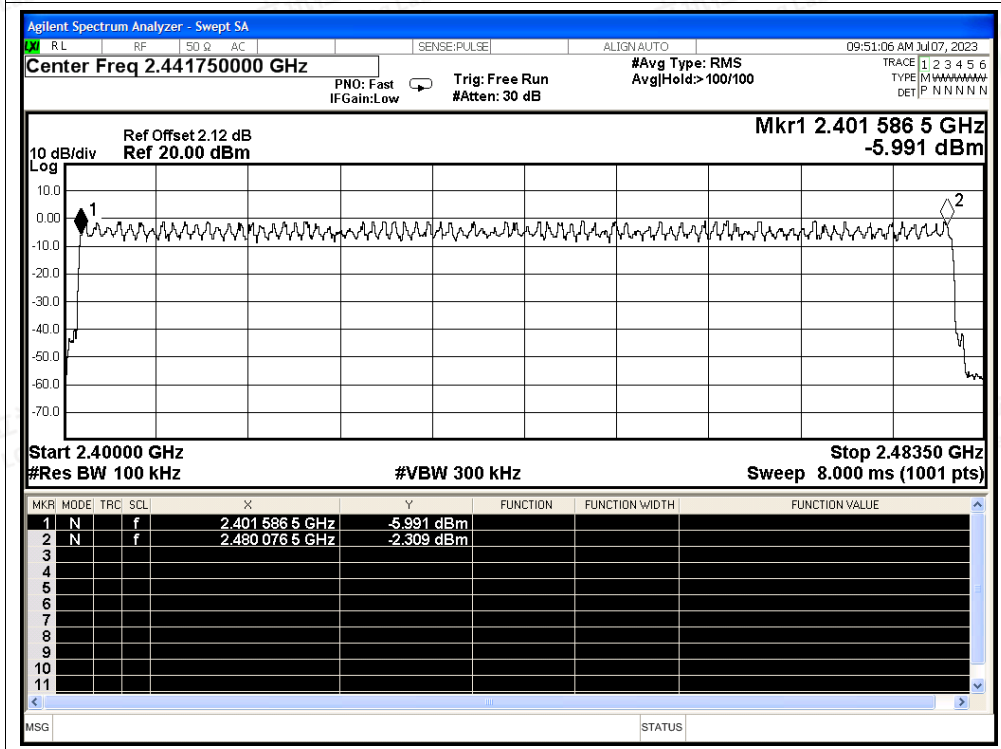


Hopping No. NVNT 2-DH5 2402MHz Ant1





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	-56.7	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.32	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.8	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.74	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-52.76	-20	Pass

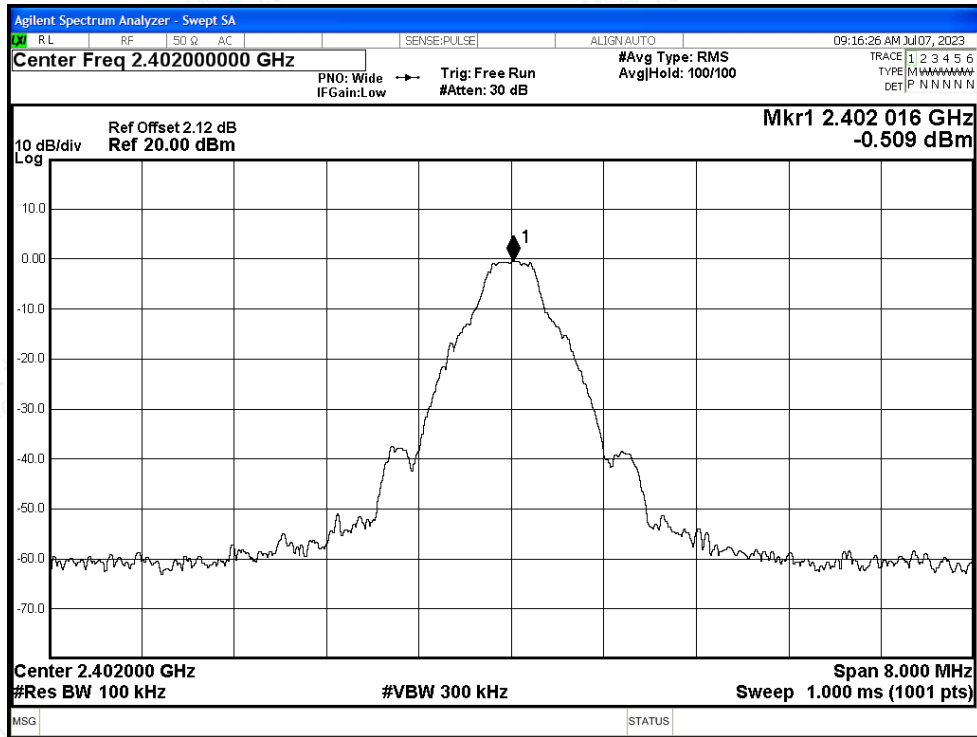




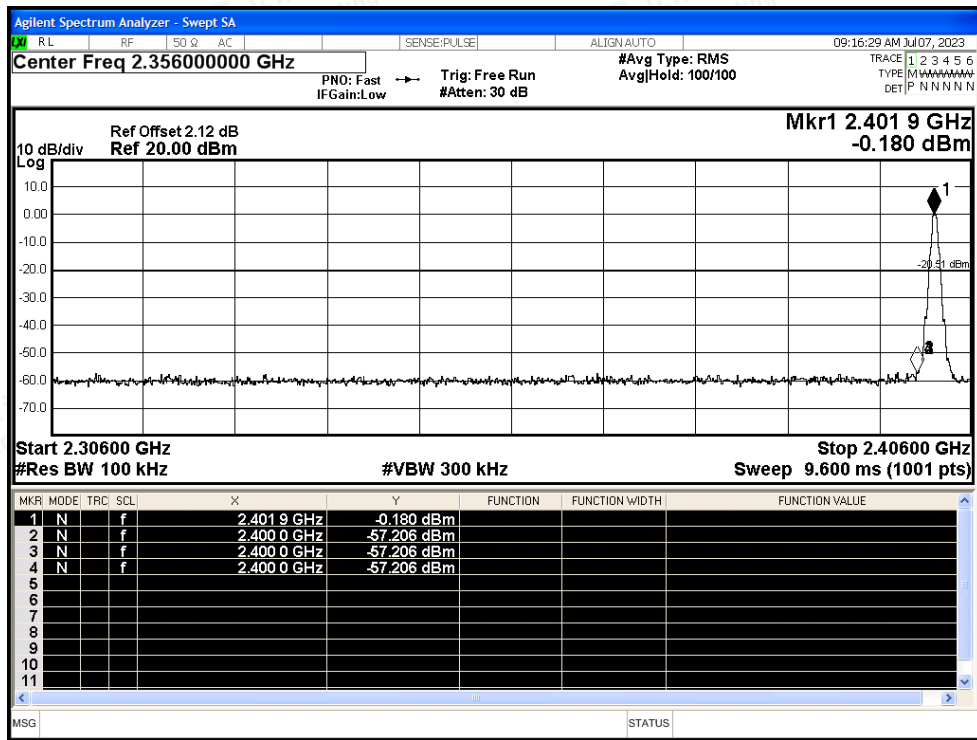


Test Graphs

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

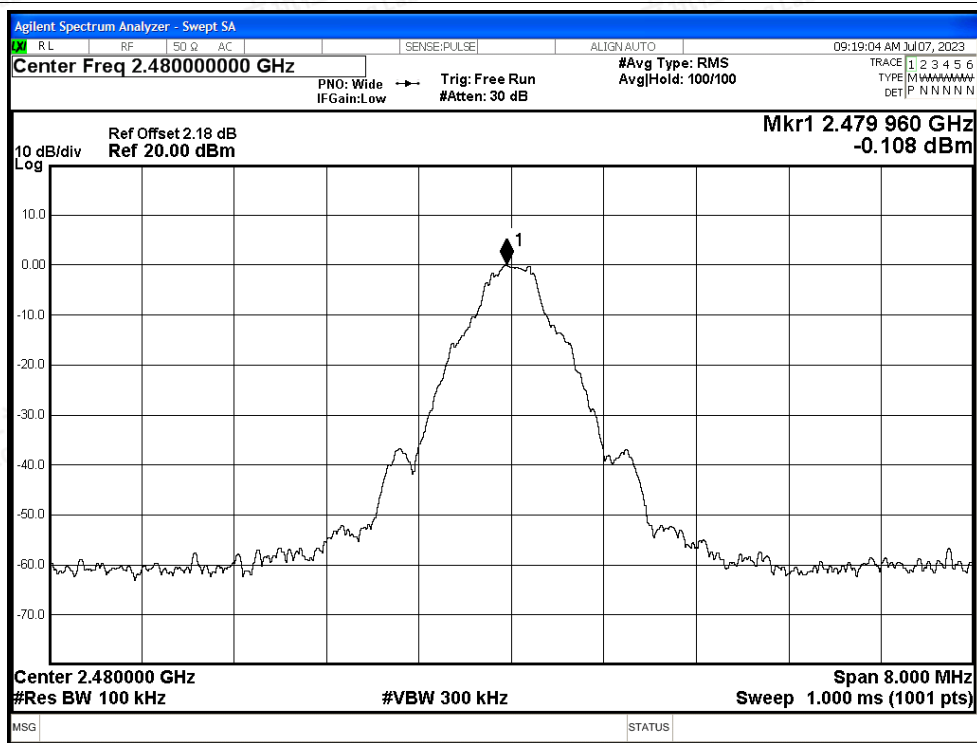


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

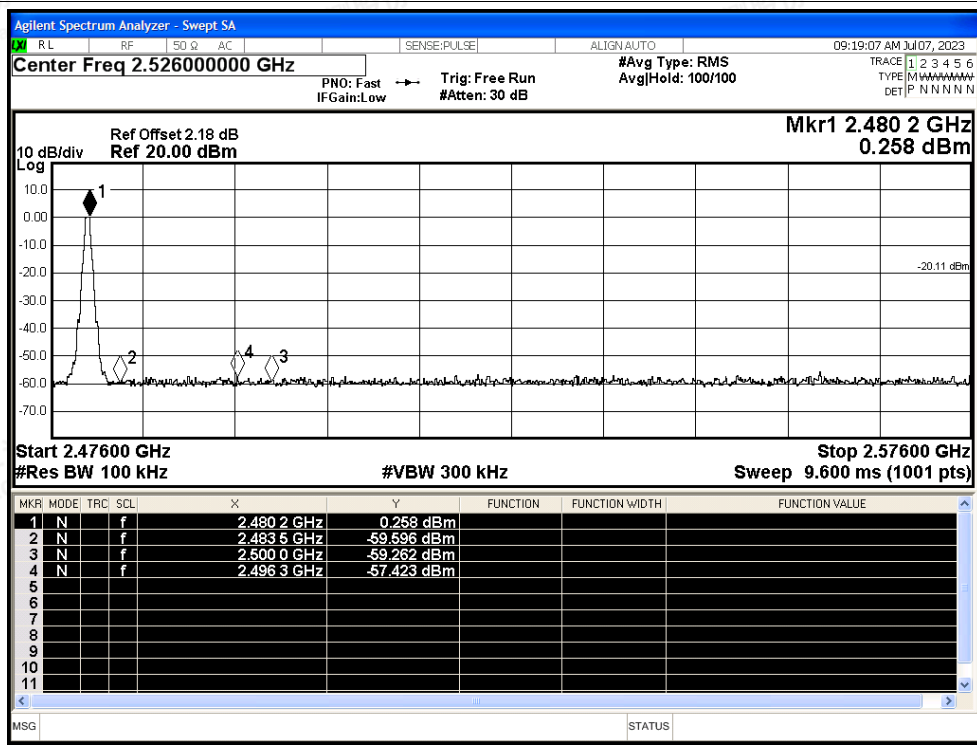




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

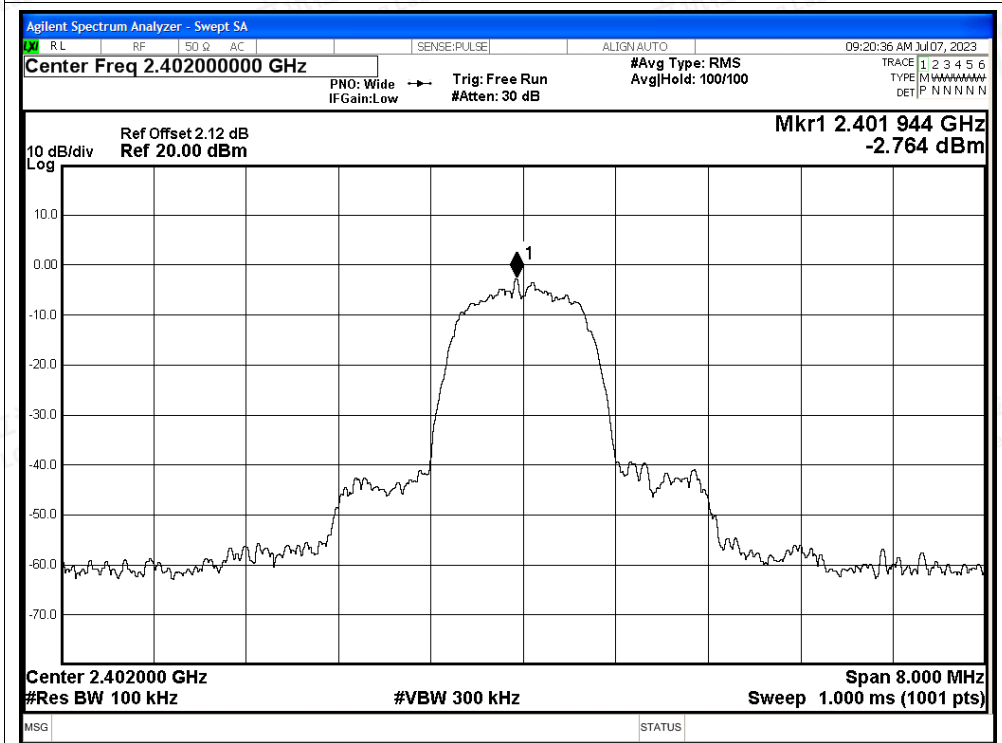


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

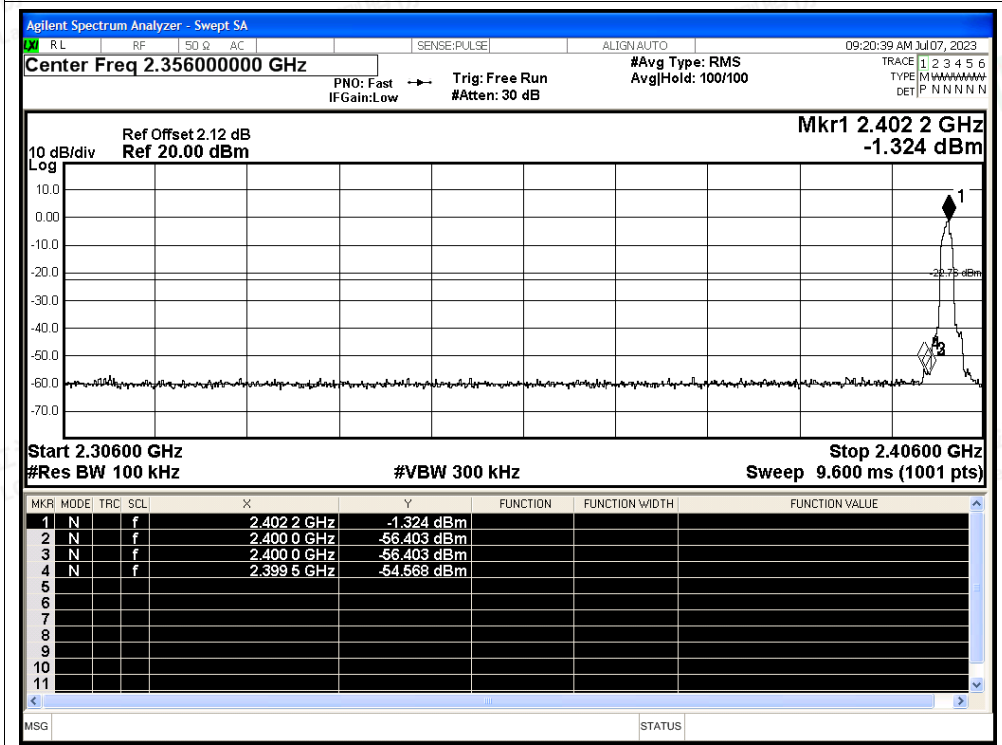




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

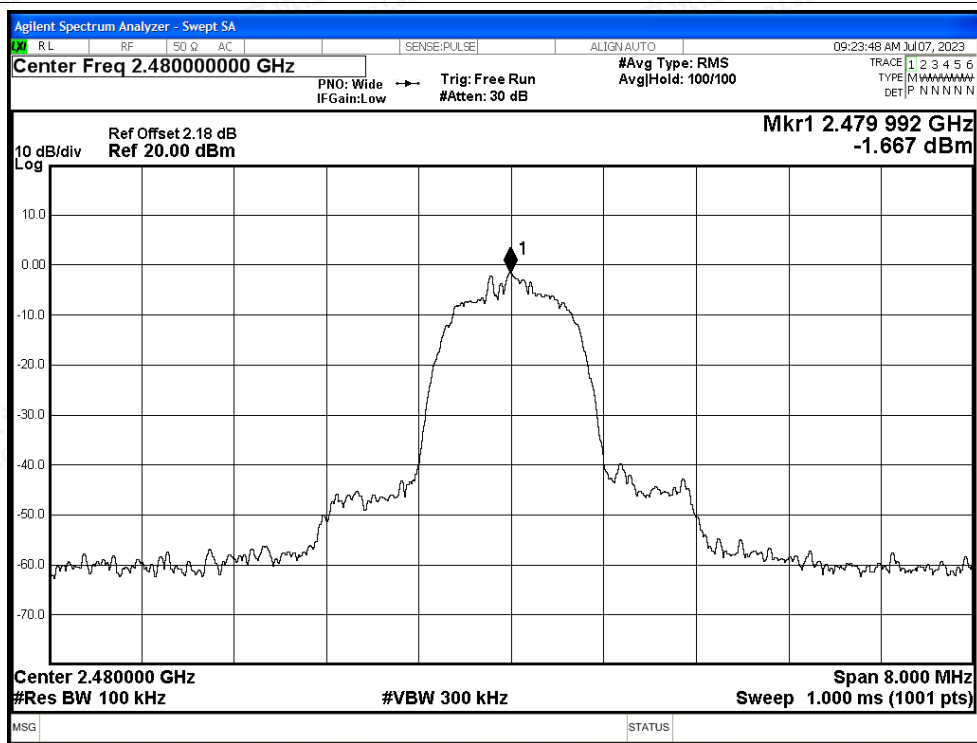


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

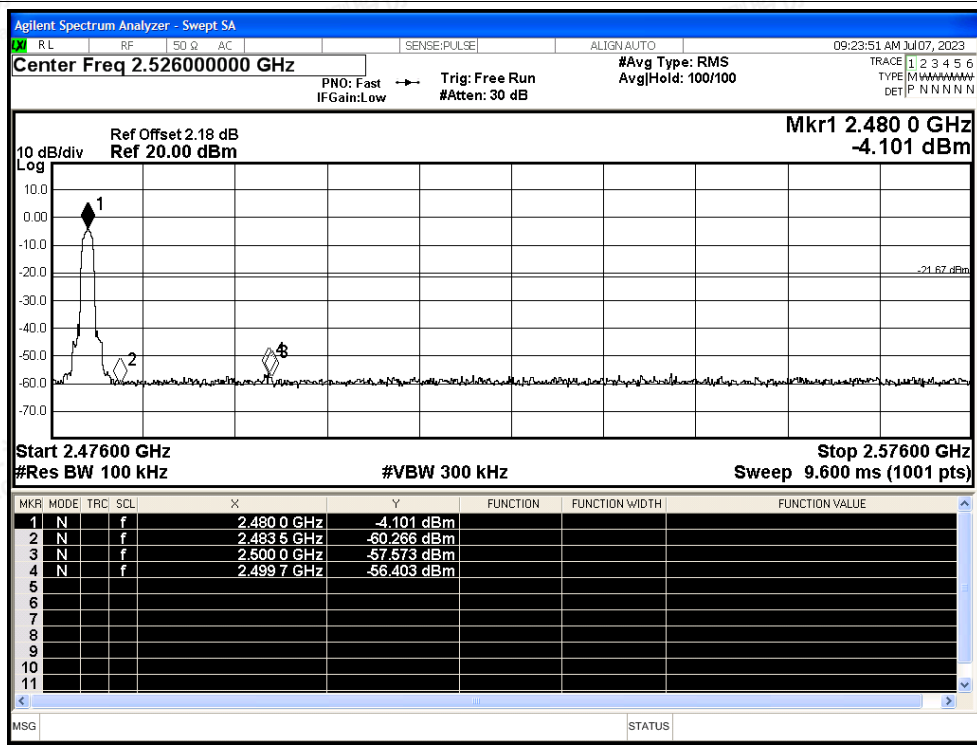




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

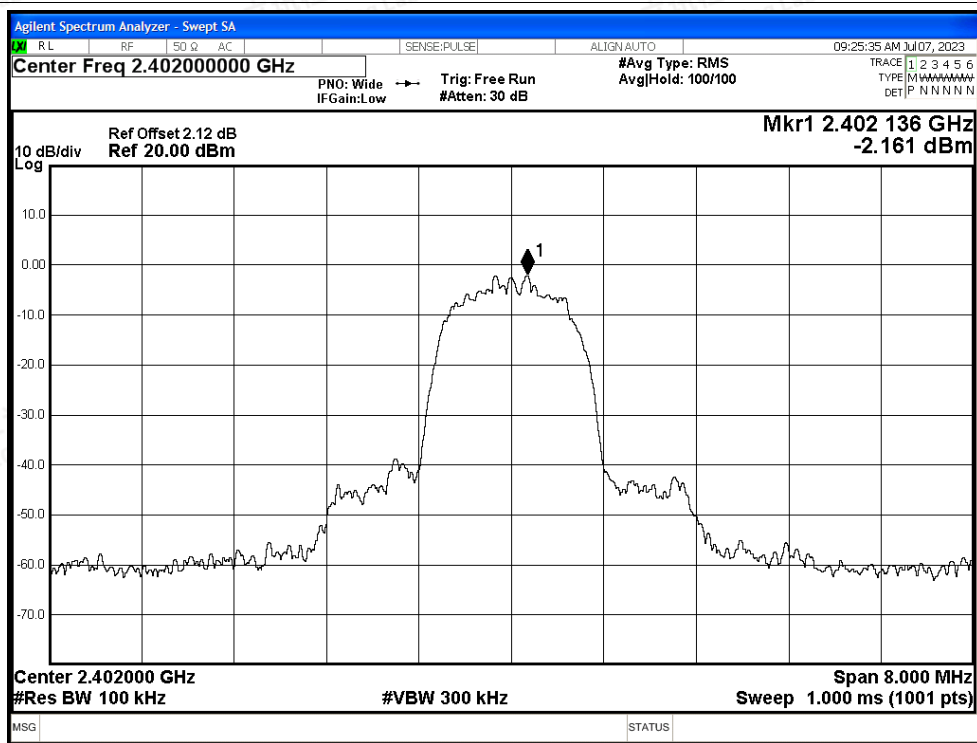


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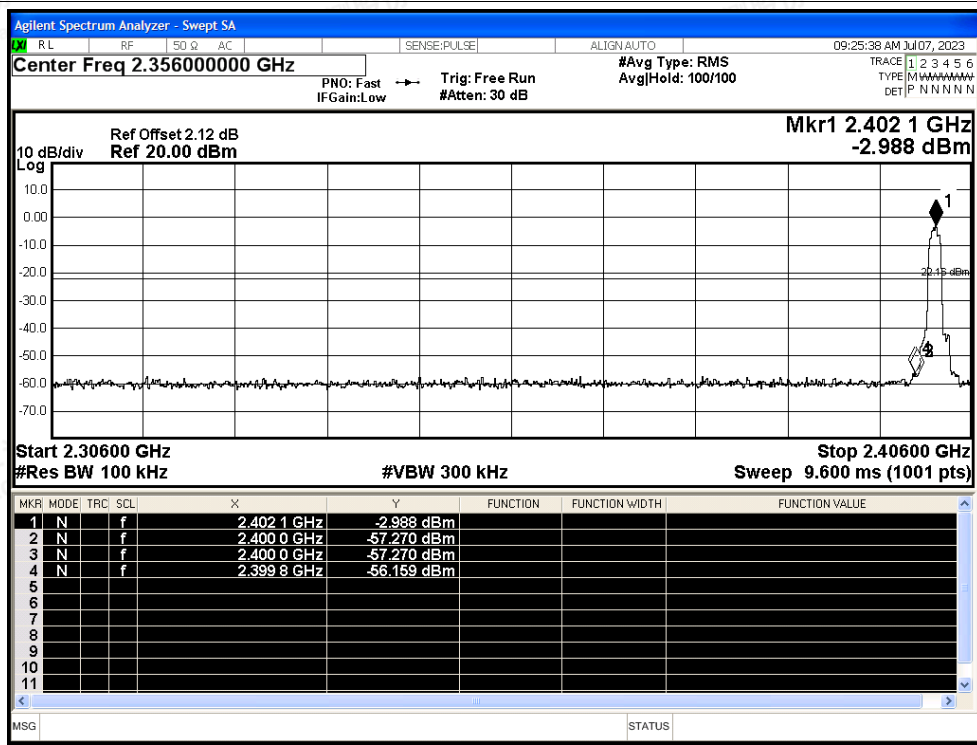




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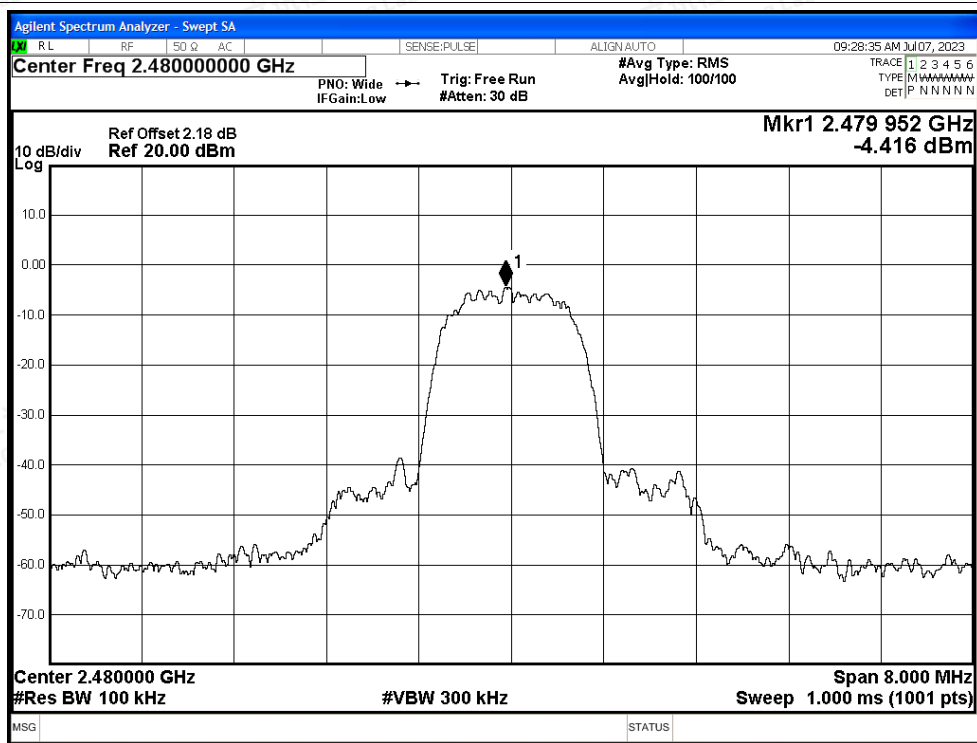


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

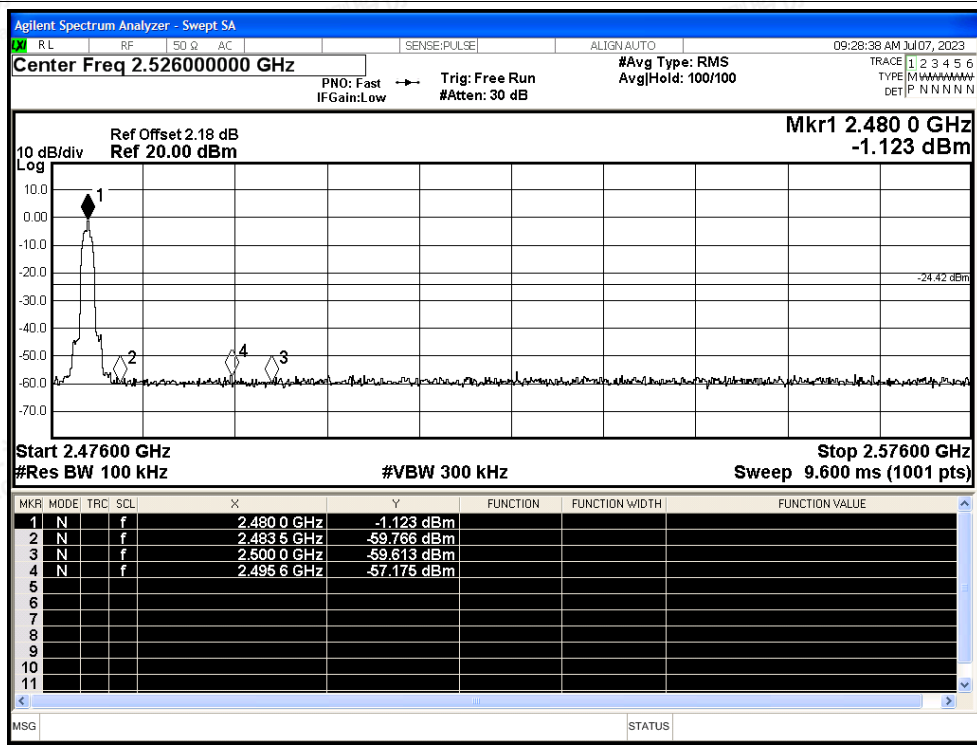




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-55.37	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.72	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.24	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.57	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.29	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.35	-20	Pass

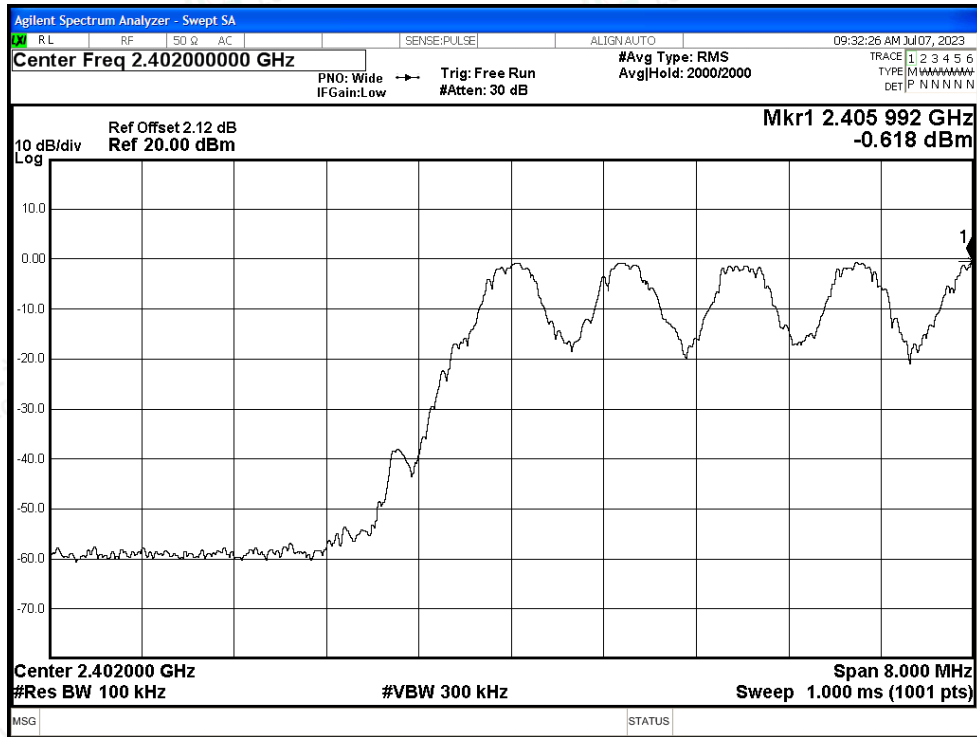


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Scan code to check authenticity

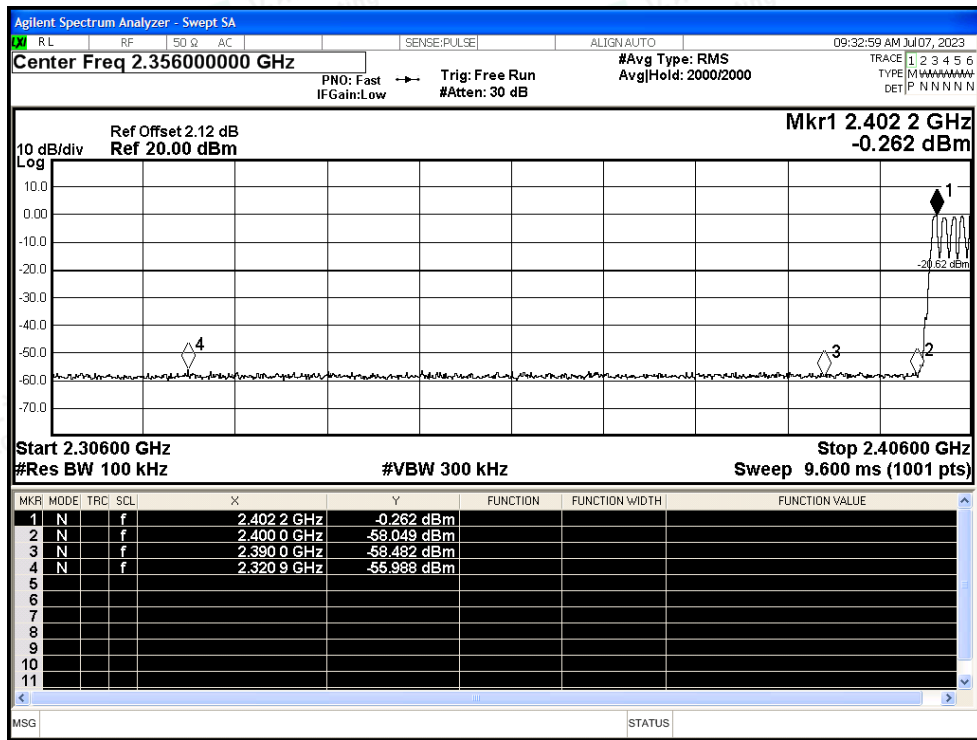


Test Graphs

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



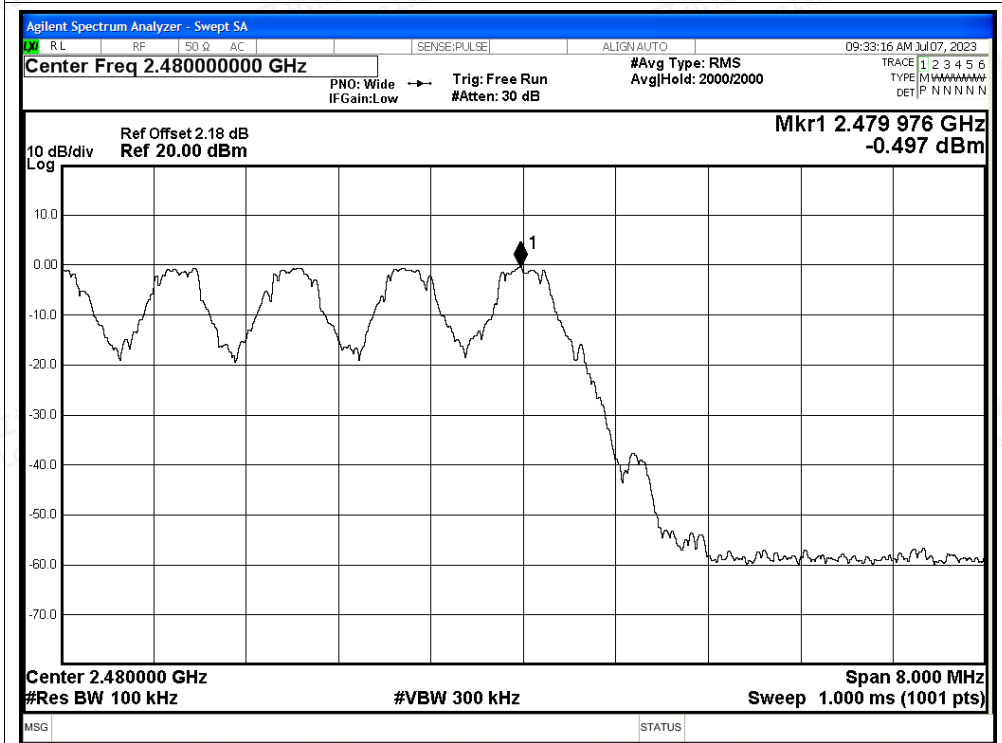
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



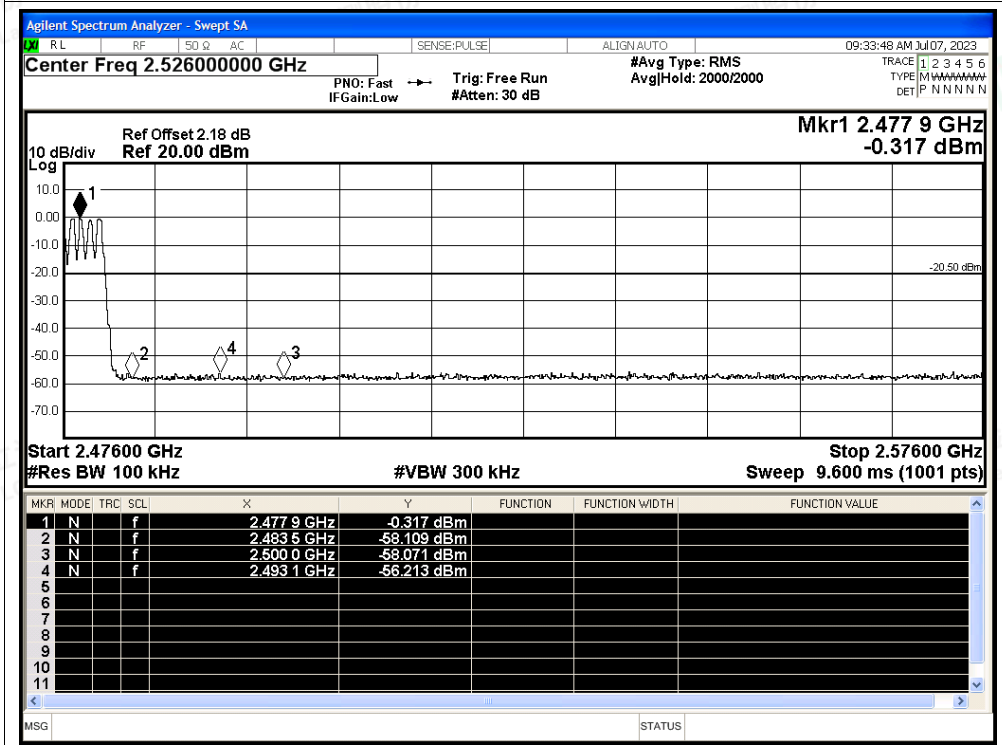




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

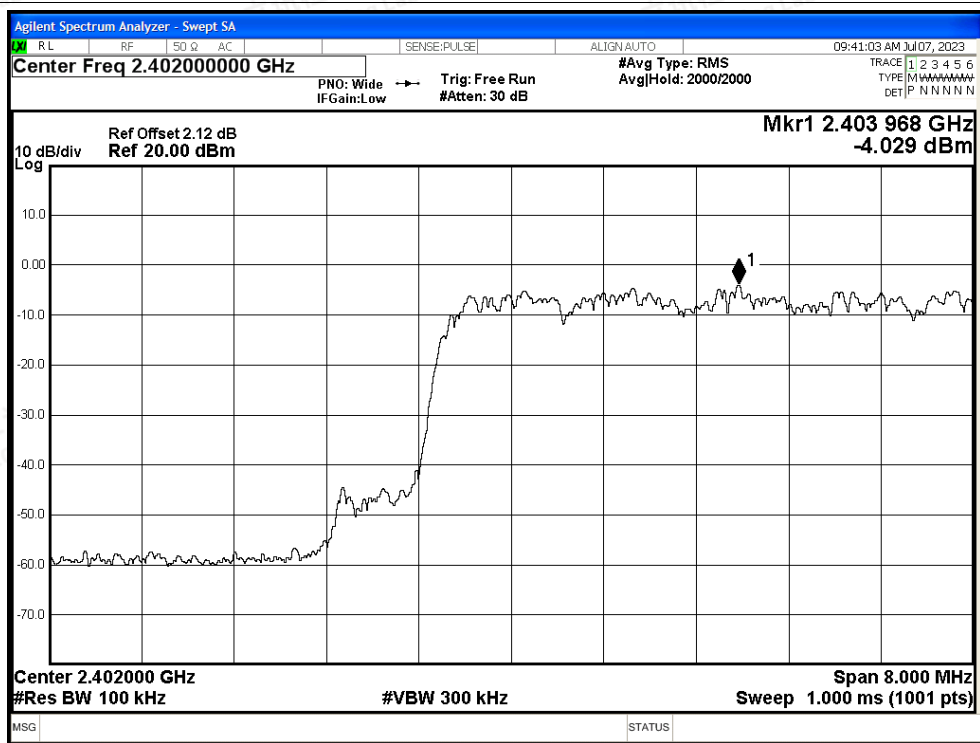


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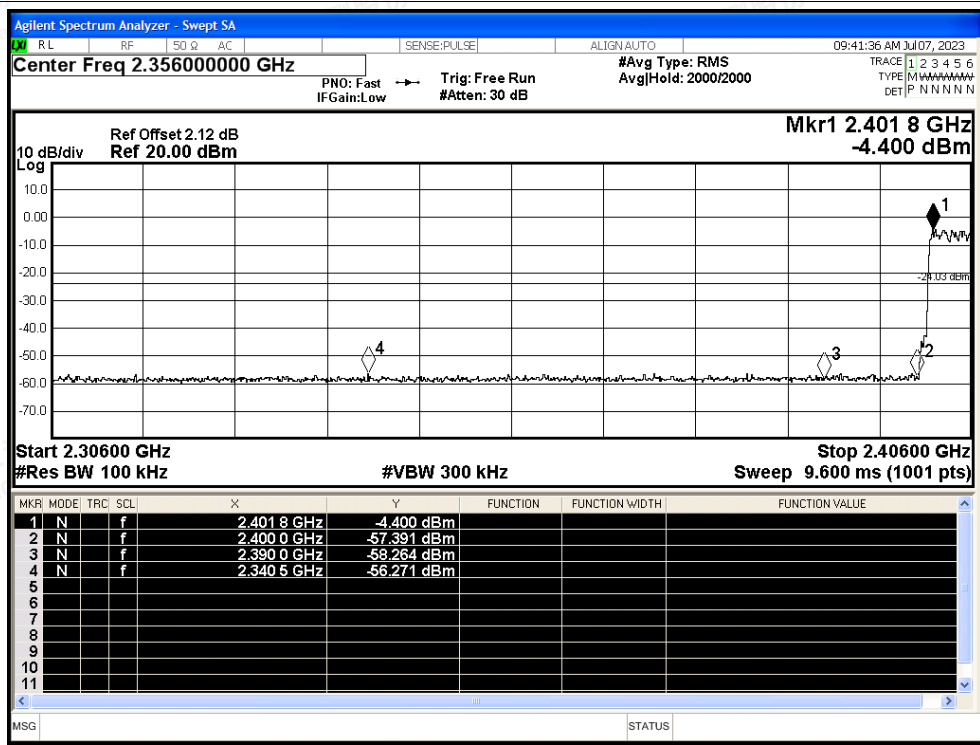




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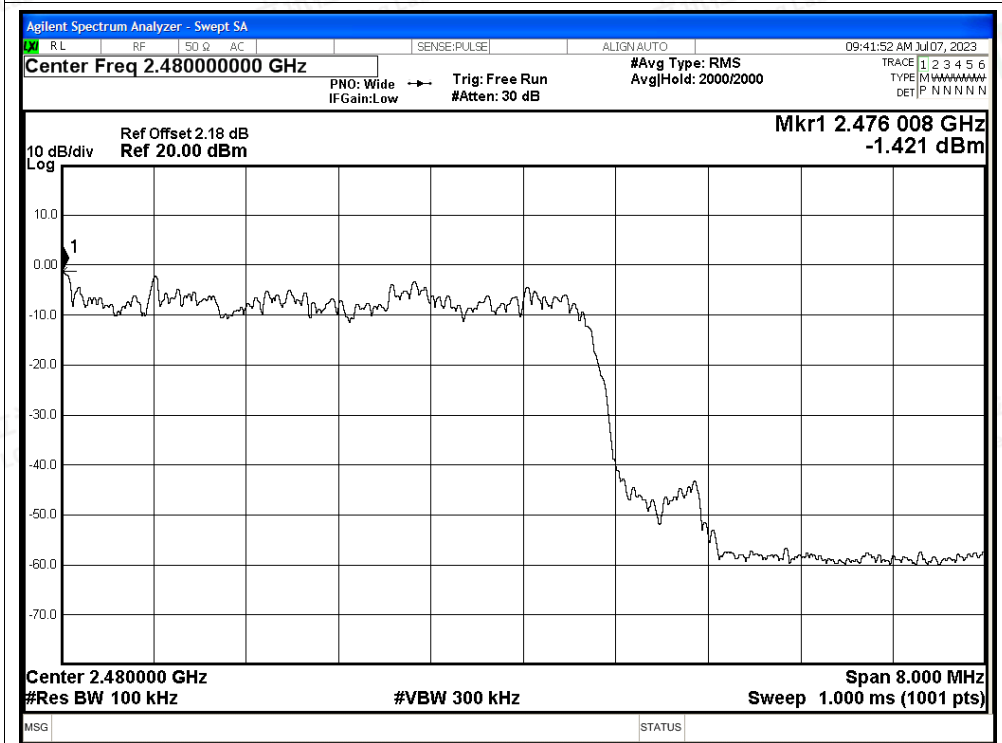


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

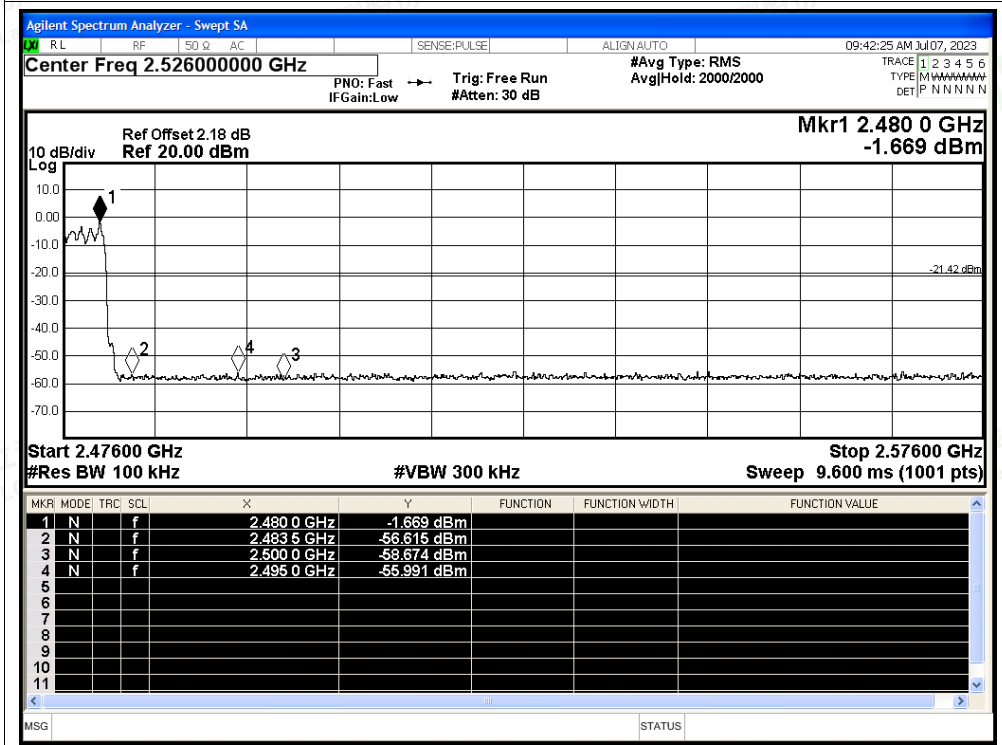




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

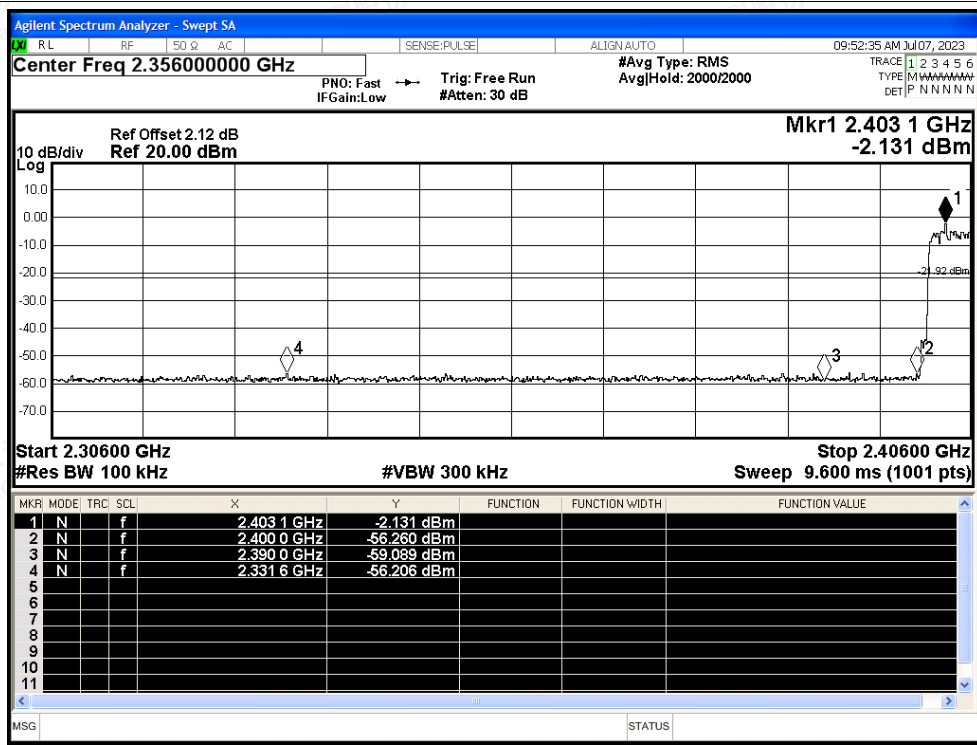




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

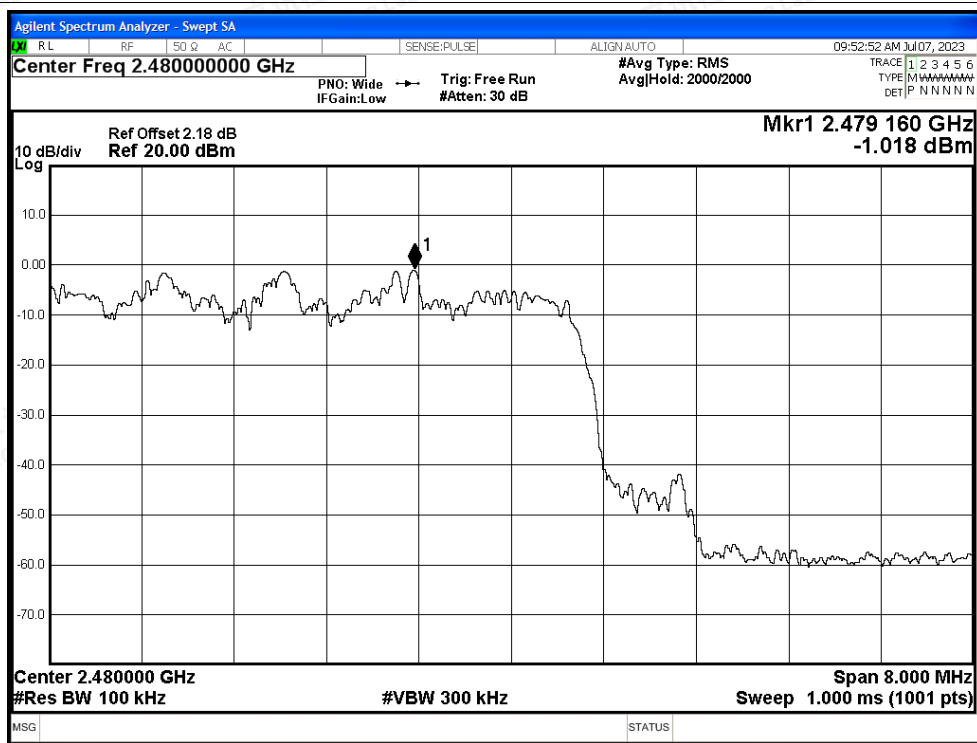


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

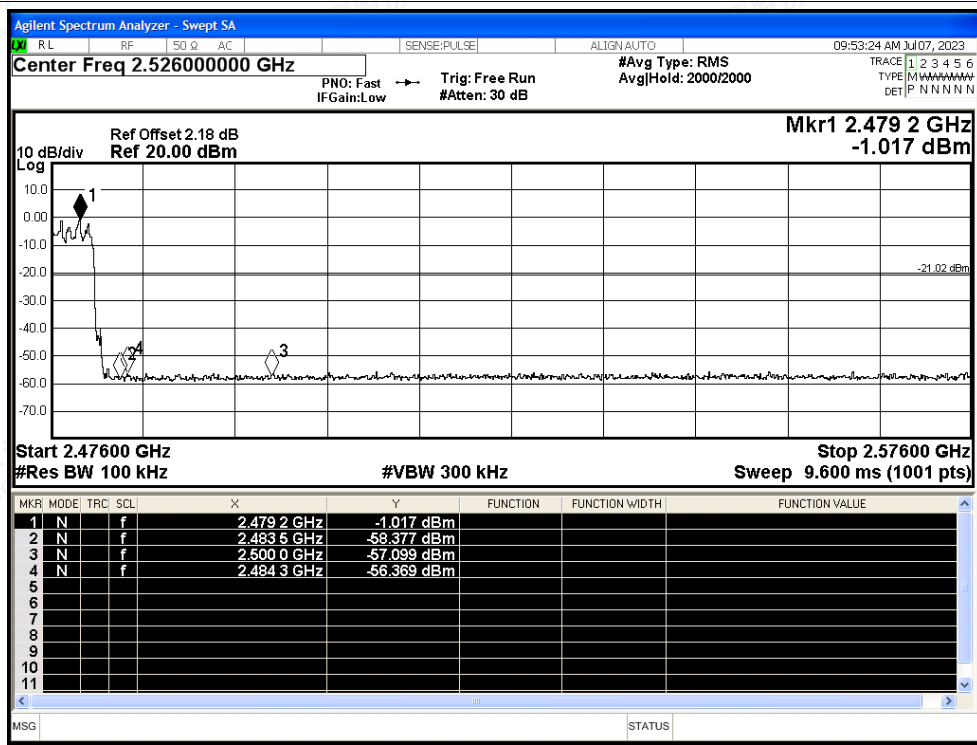




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-56.15	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.61	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.95	-20	Pass
NVNT	2-DH5	2402	Ant1	-51.56	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.16	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.07	-20	Pass
NVNT	3-DH5	2402	Ant1	-51.46	-20	Pass
NVNT	3-DH5	2441	Ant1	-51.52	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.94	-20	Pass

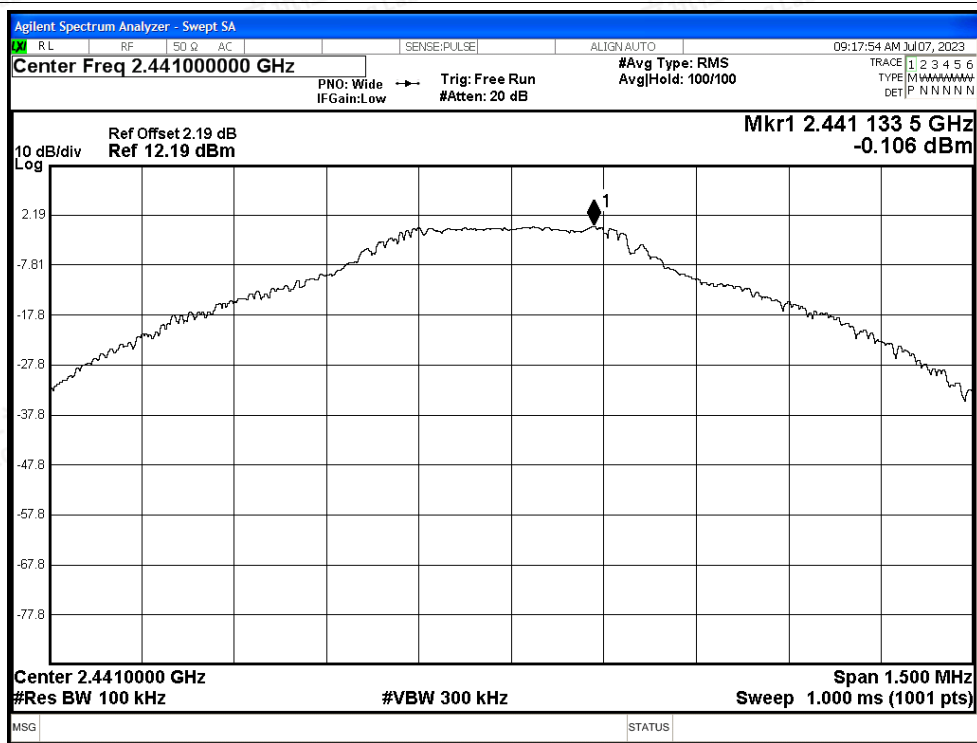


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Scan code to check authenticity

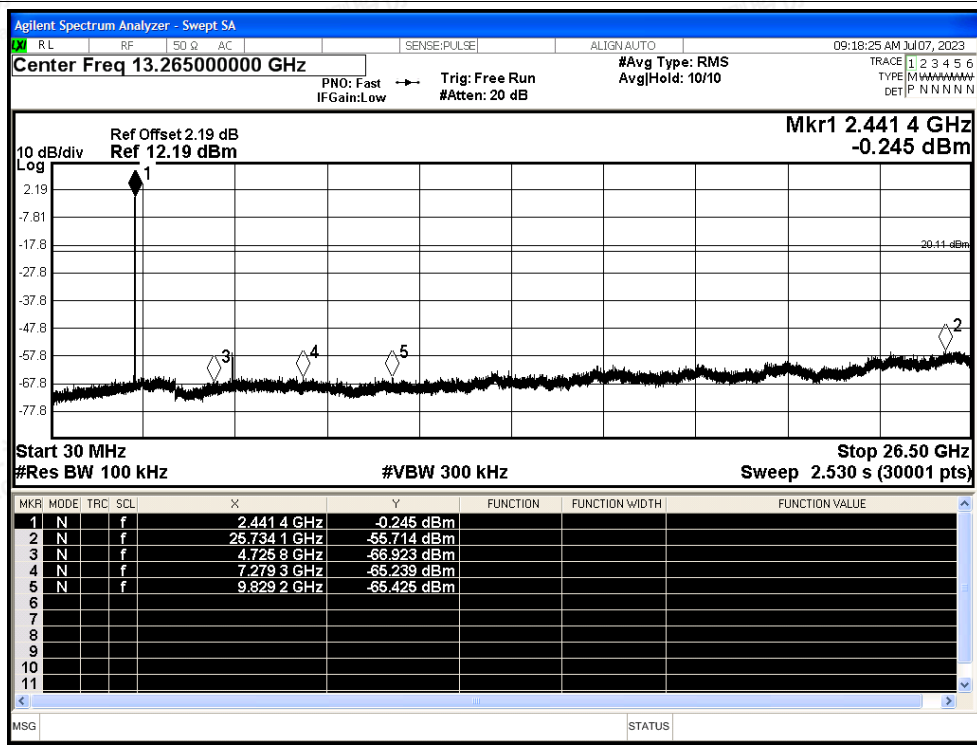




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



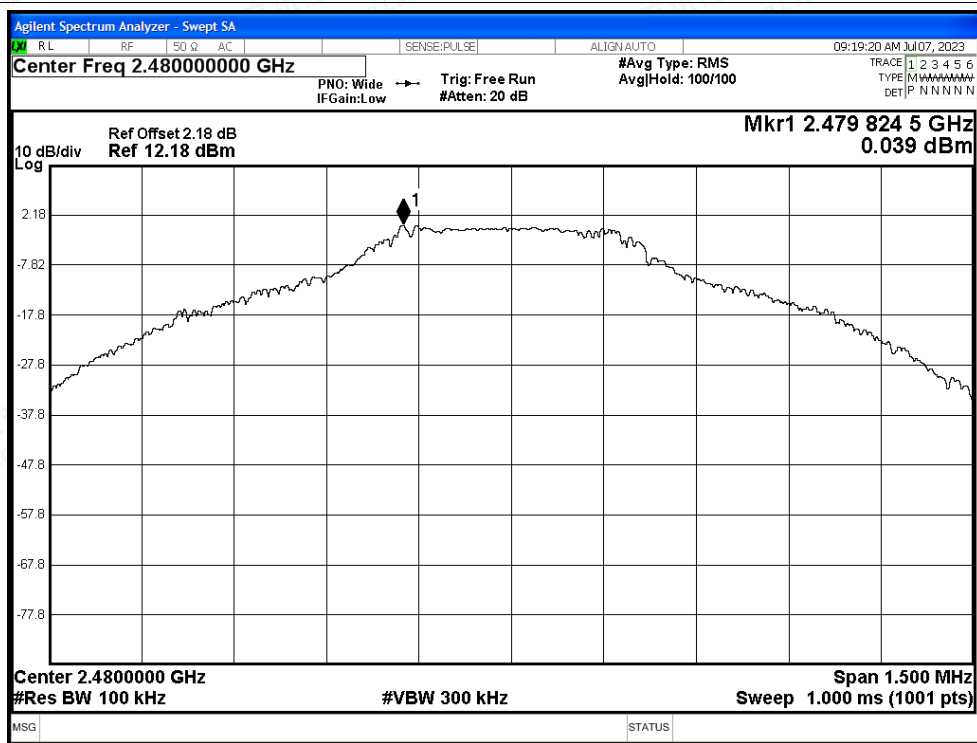
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



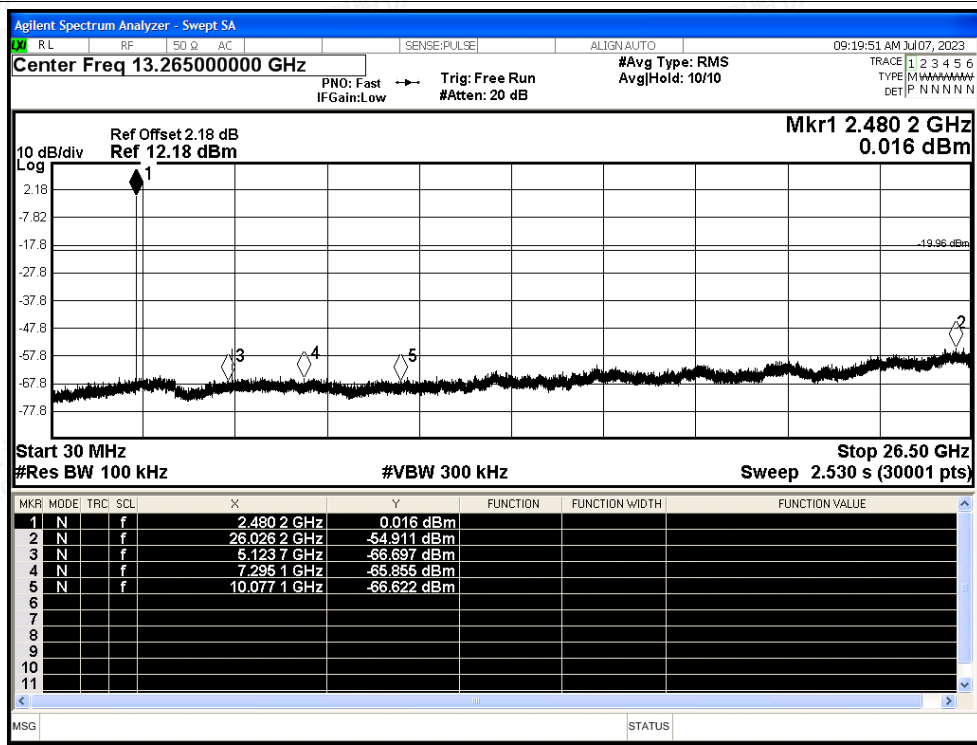




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

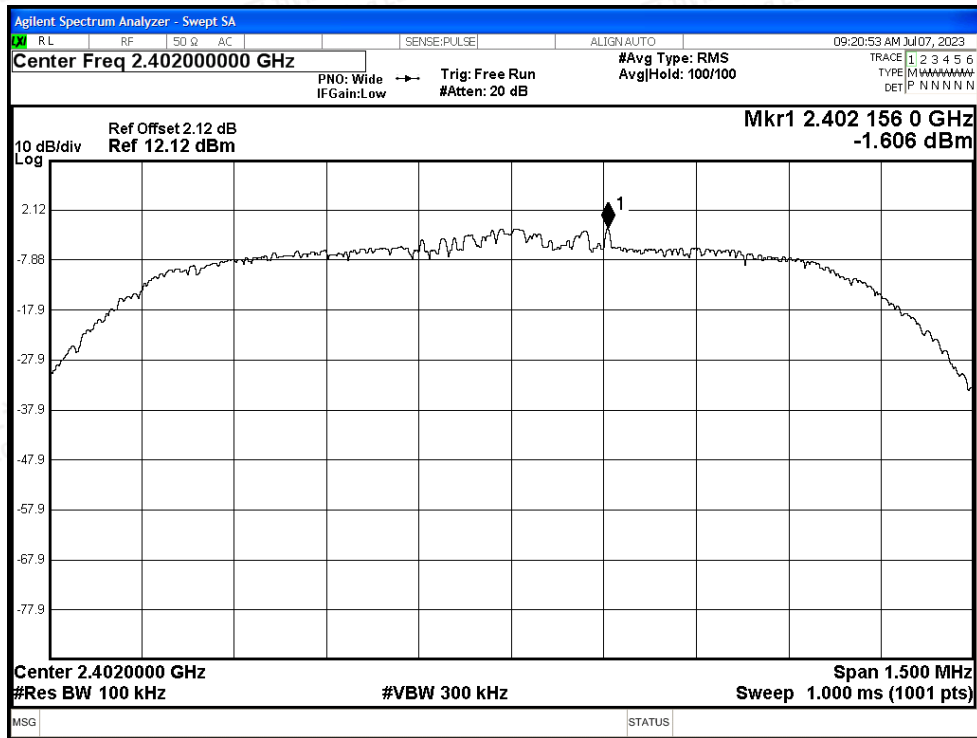


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

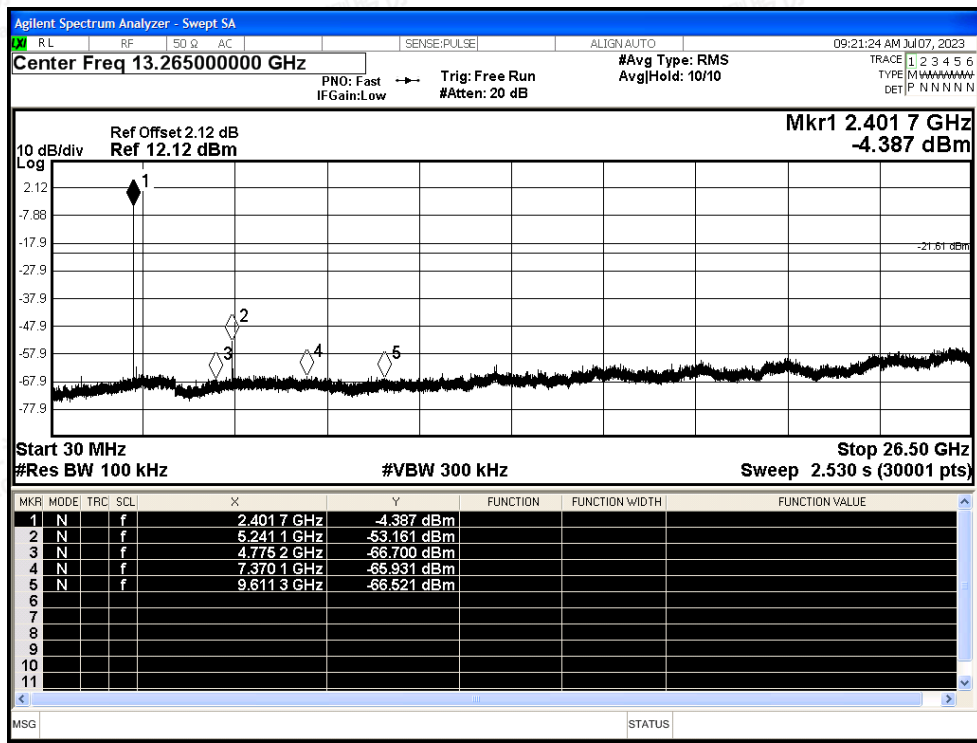




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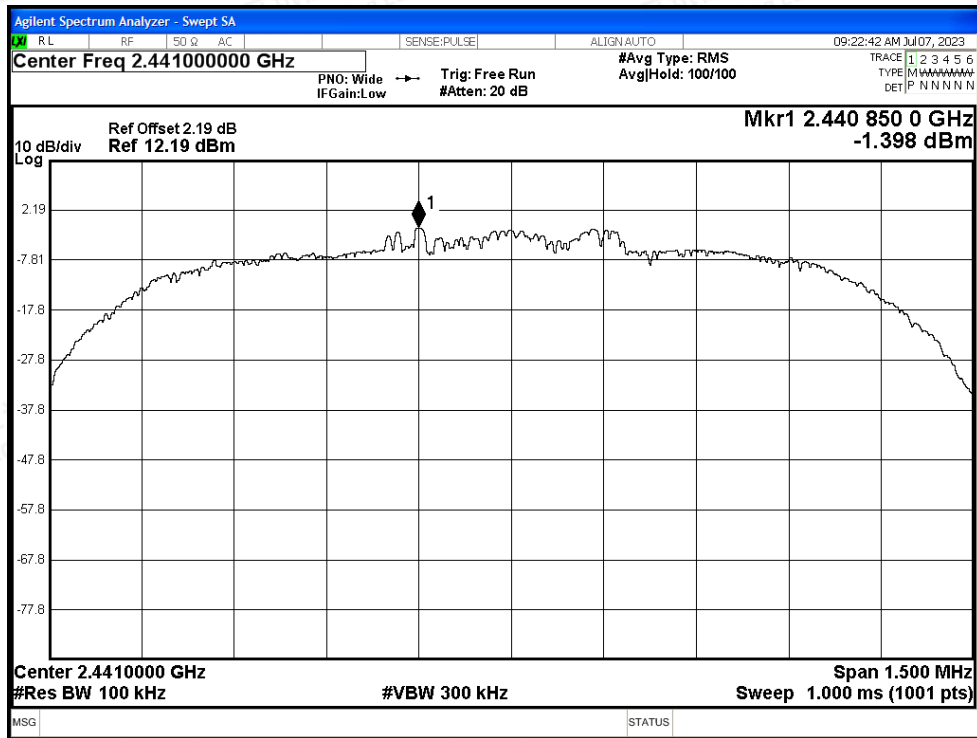


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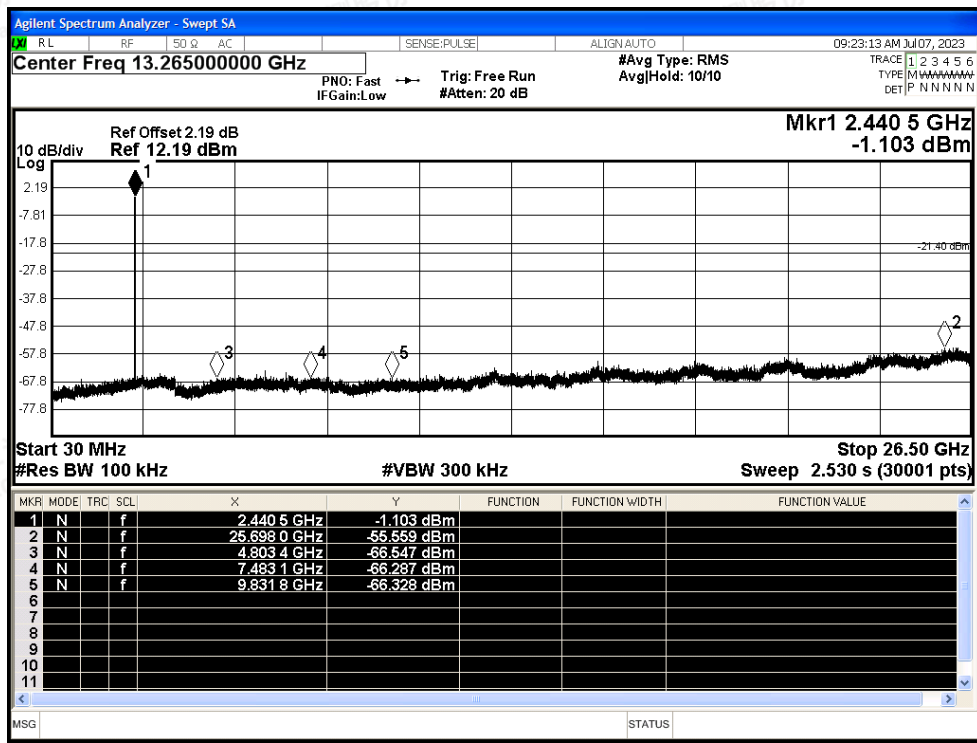




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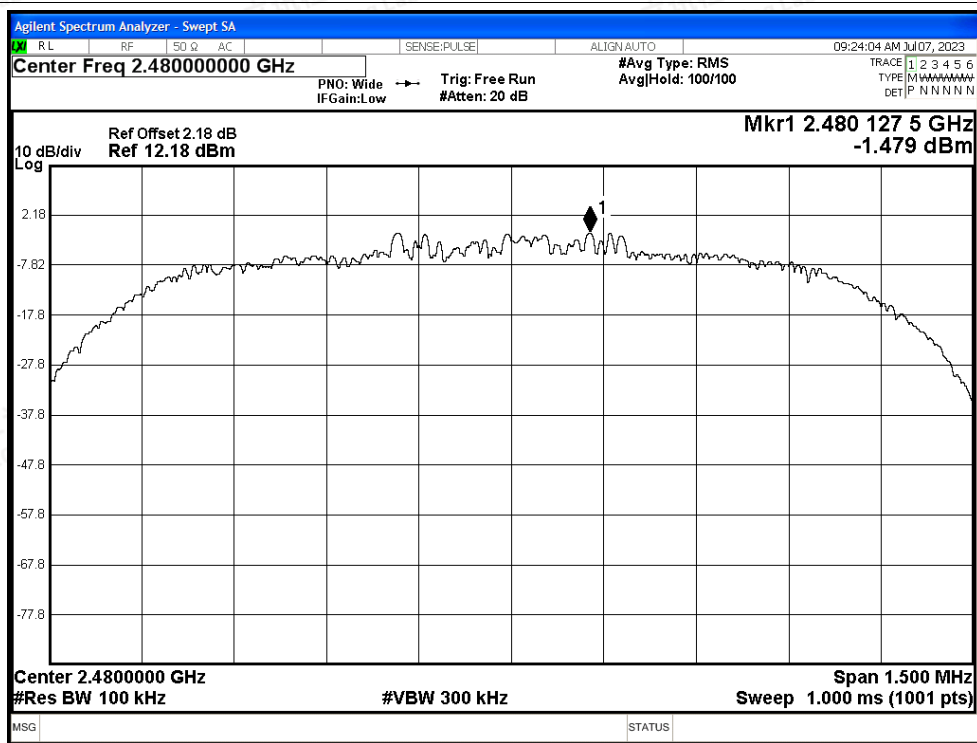


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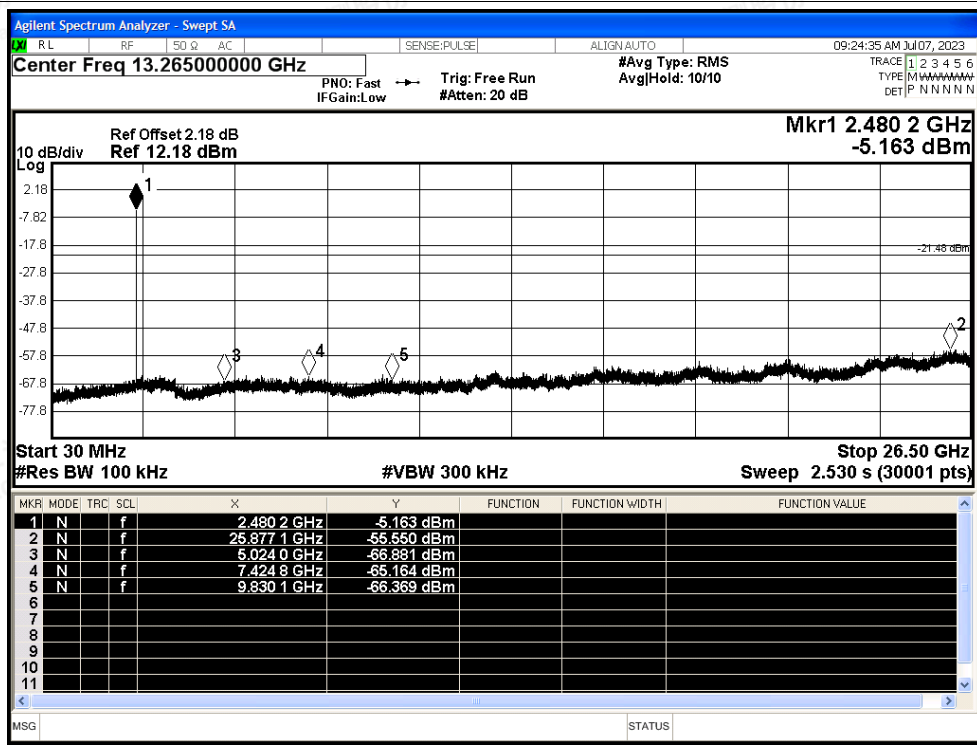




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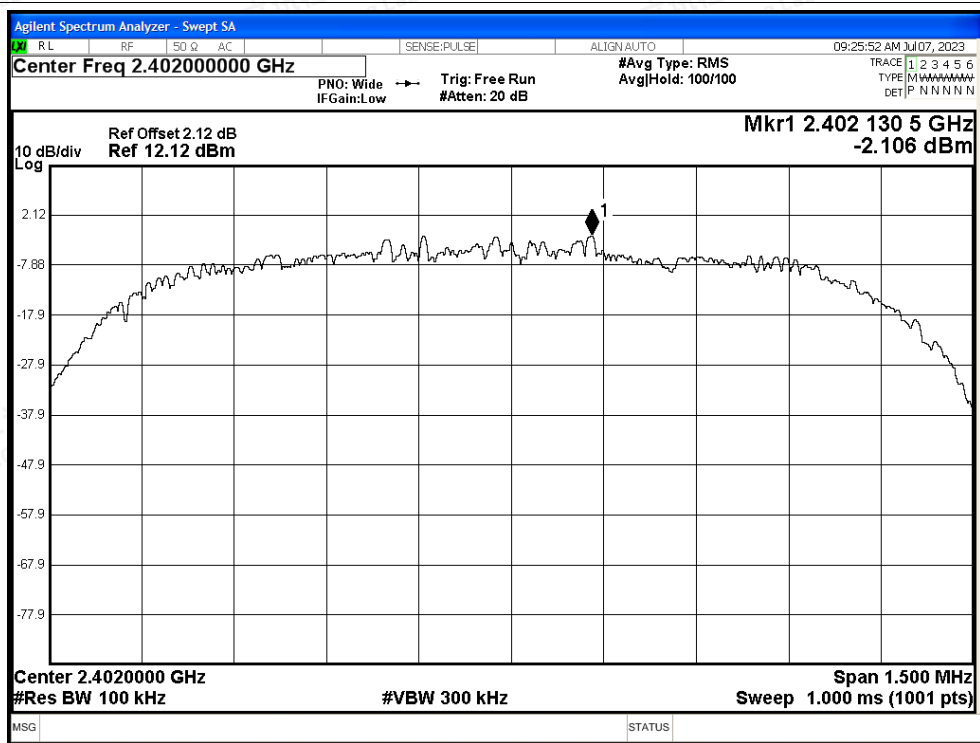


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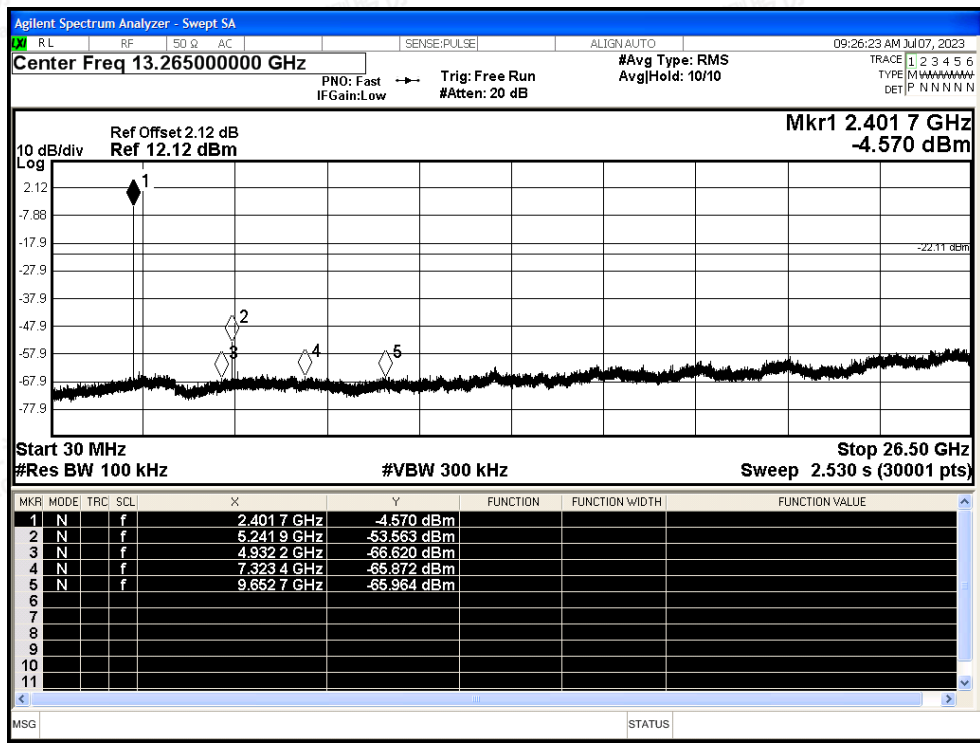




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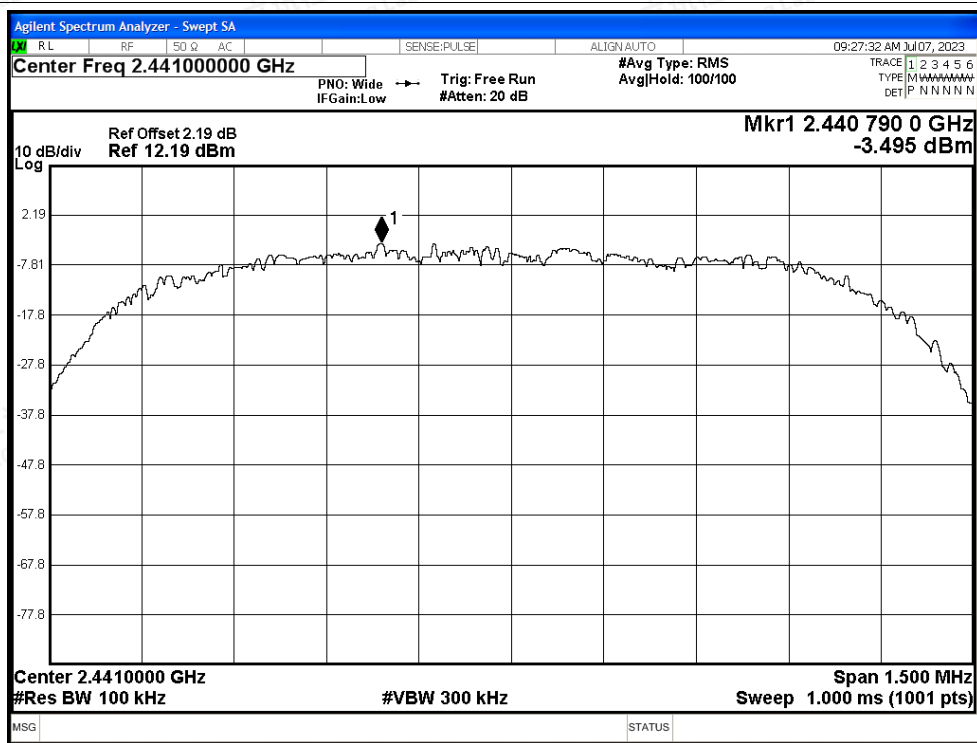


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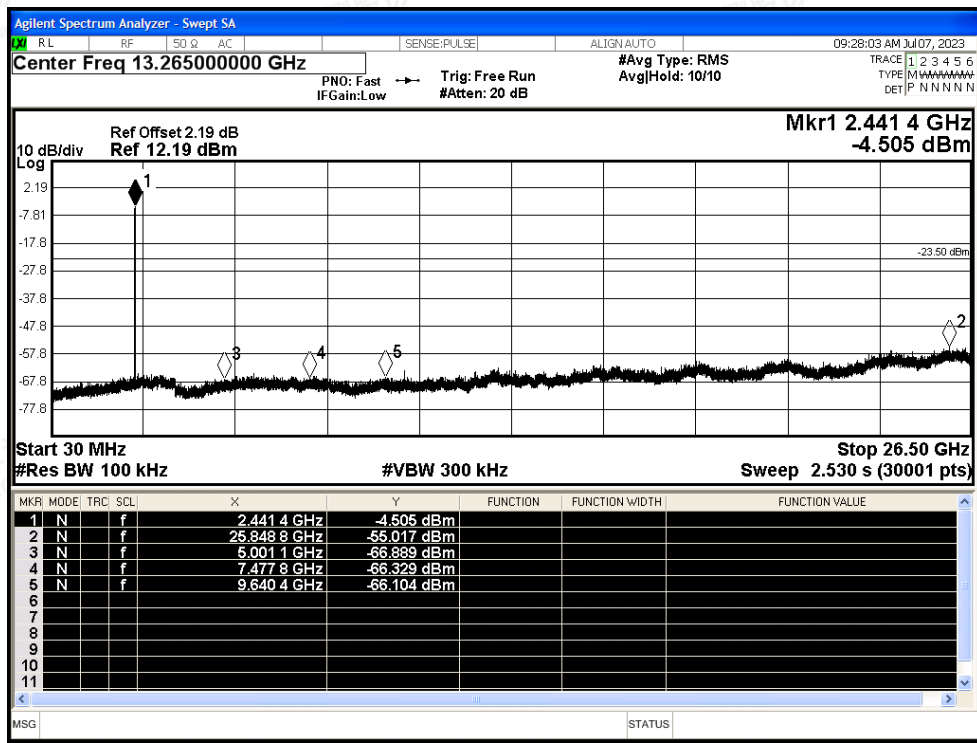




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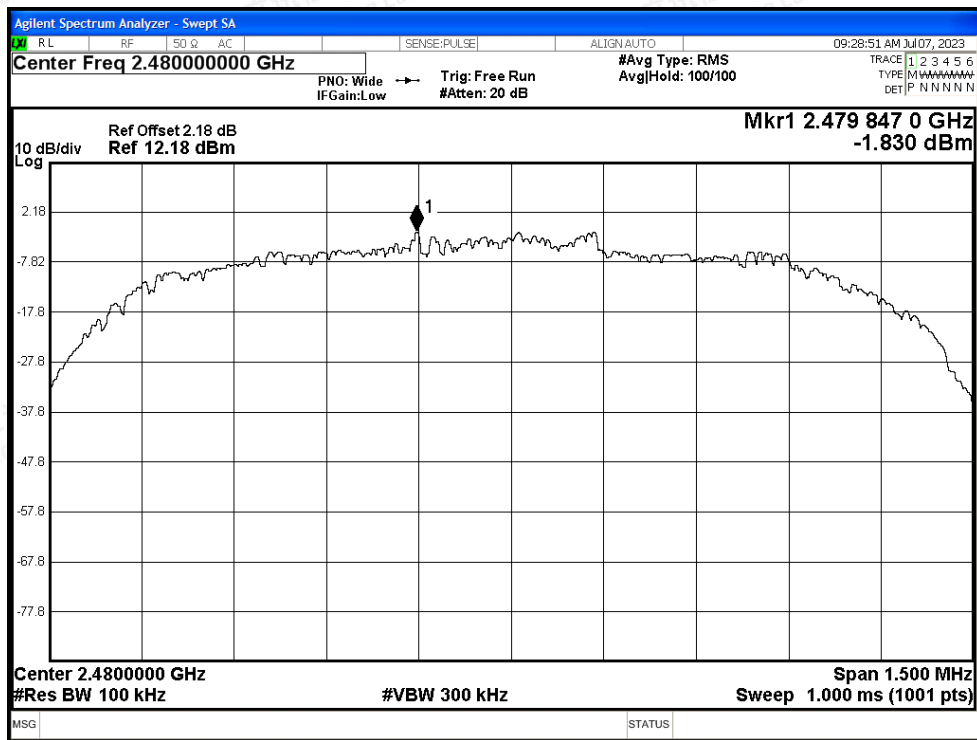


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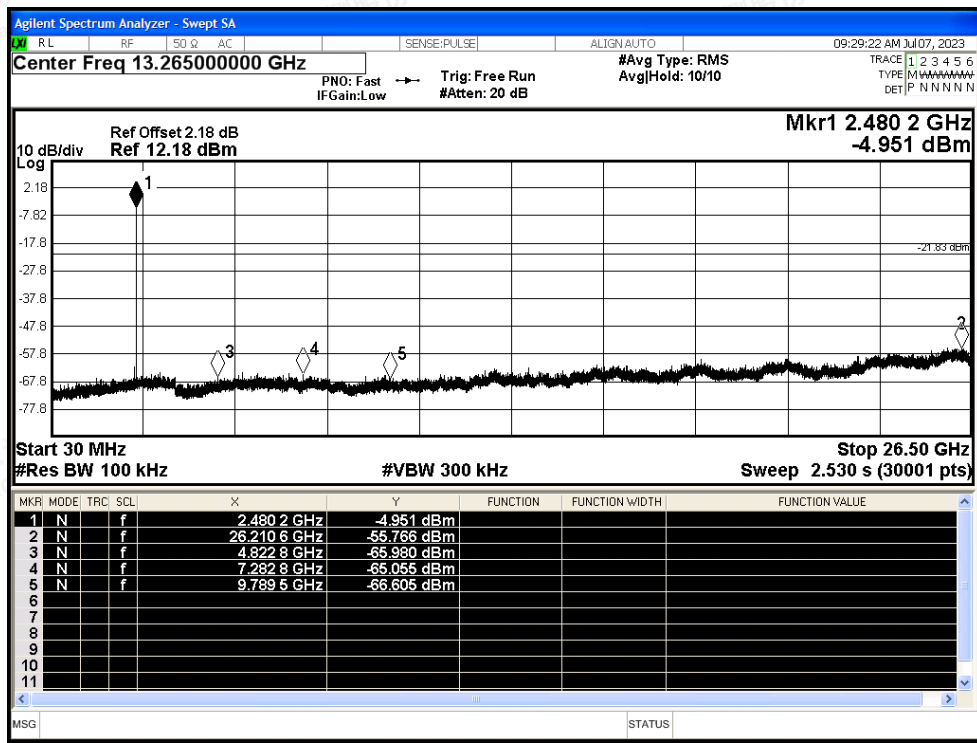




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-50.57	2	46.69	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.15	2	39.11	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2383.248	-47.16	2	50.1	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2388.24	-57.57	2	39.69	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.65	2	47.61	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.77	2	39.49	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.8	2	47.46	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.85	2	41.41	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2486.08	-46.69	2	50.57	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.85	2	41.41	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.5	2	47.76	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.36	2	39.9	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.3	2	46.96	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.02	2	39.24	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2365.104	-48.07	2	49.19	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.872	-57.53	2	39.73	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.22	2	46.04	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.63	2	39.63	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.21	2	48.05	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.79	2	41.47	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.872	-44.93	2	52.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.79	2	41.47	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.93	2	47.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.44	2	39.82	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.47	2	47.79	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.08	2	39.18	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2377.872	-46.85	2	50.41	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2387.952	-57.48	2	39.78	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.8	2	46.46	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.73	2	39.53	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.94	2	46.32	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.86	2	41.4	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2494.768	-46.71	2	50.55	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.86	2	41.4	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.43	2	47.83	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.35	2	39.91	Average	54	Pass





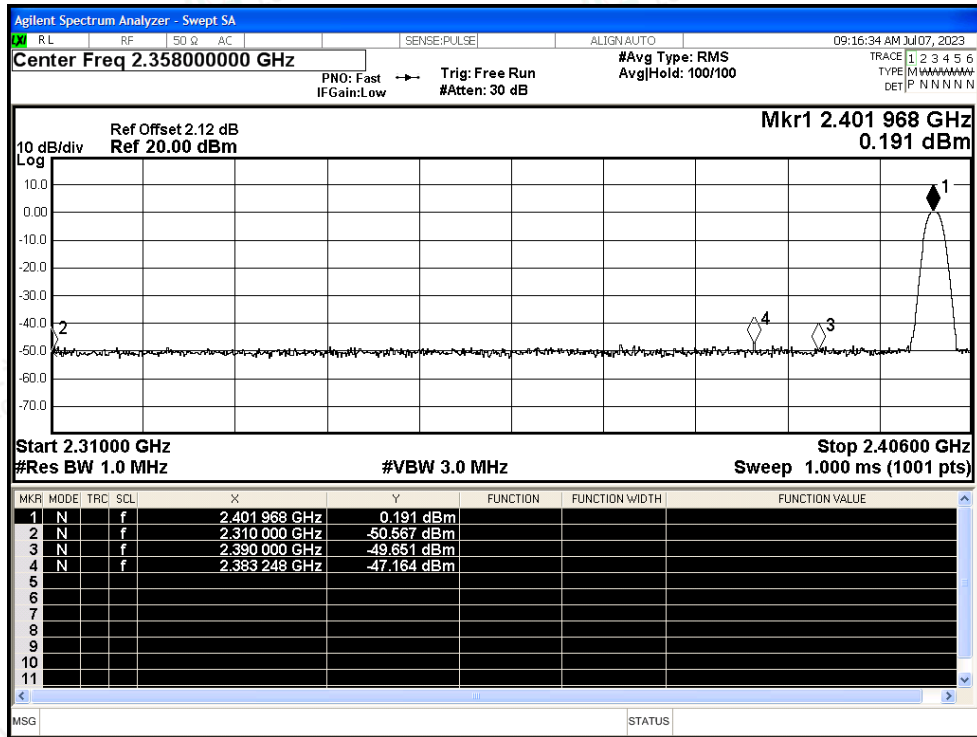


Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

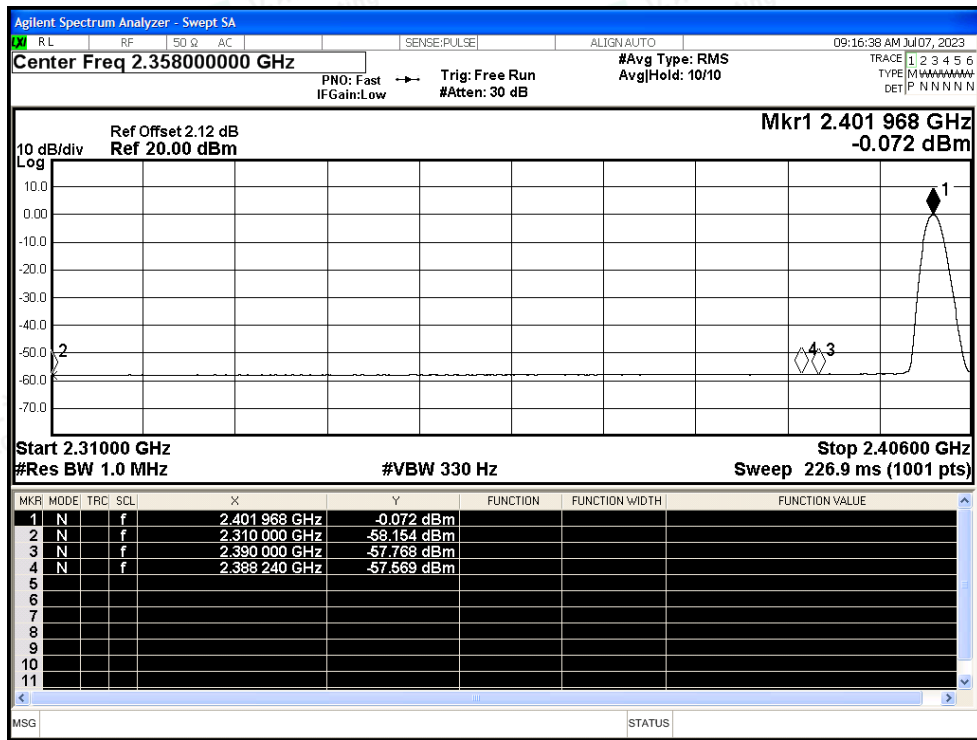


Test Graphs

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

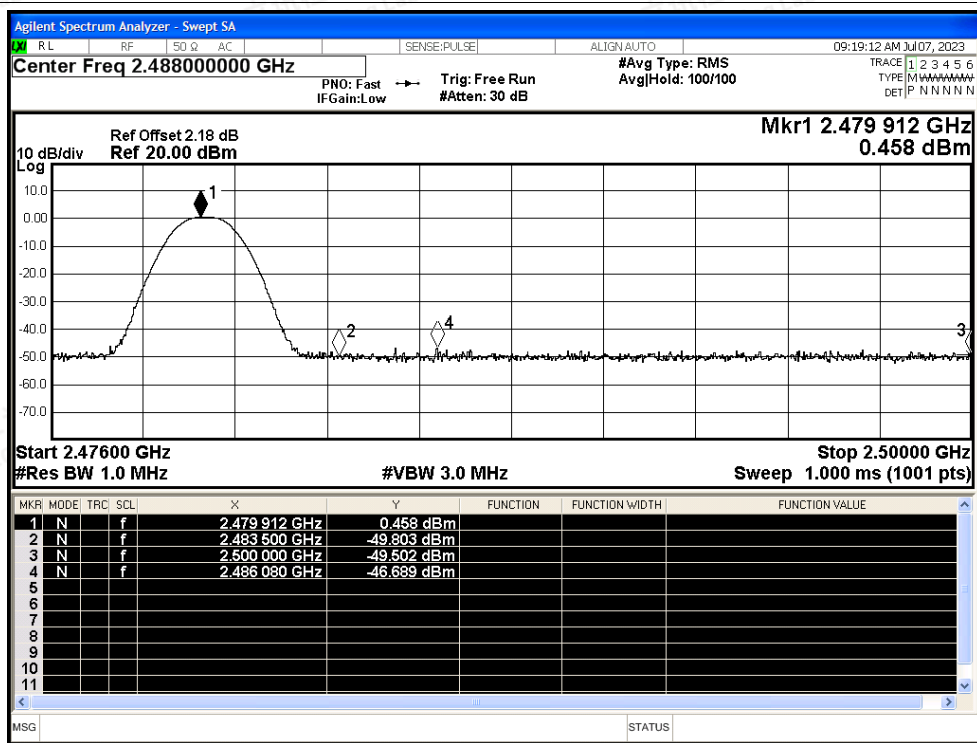


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

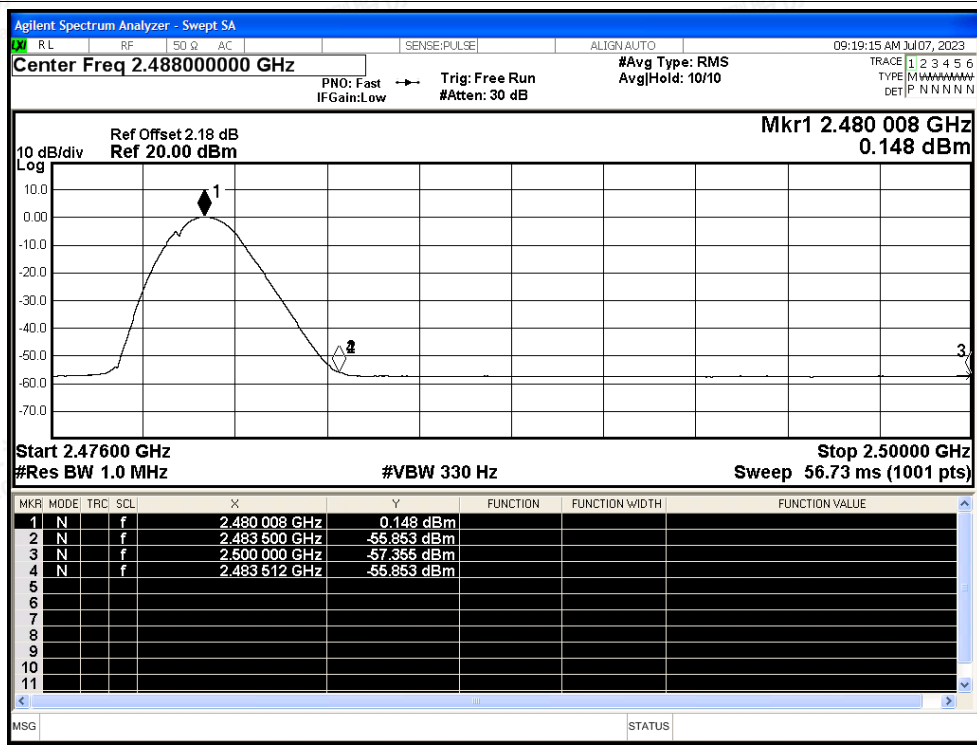




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

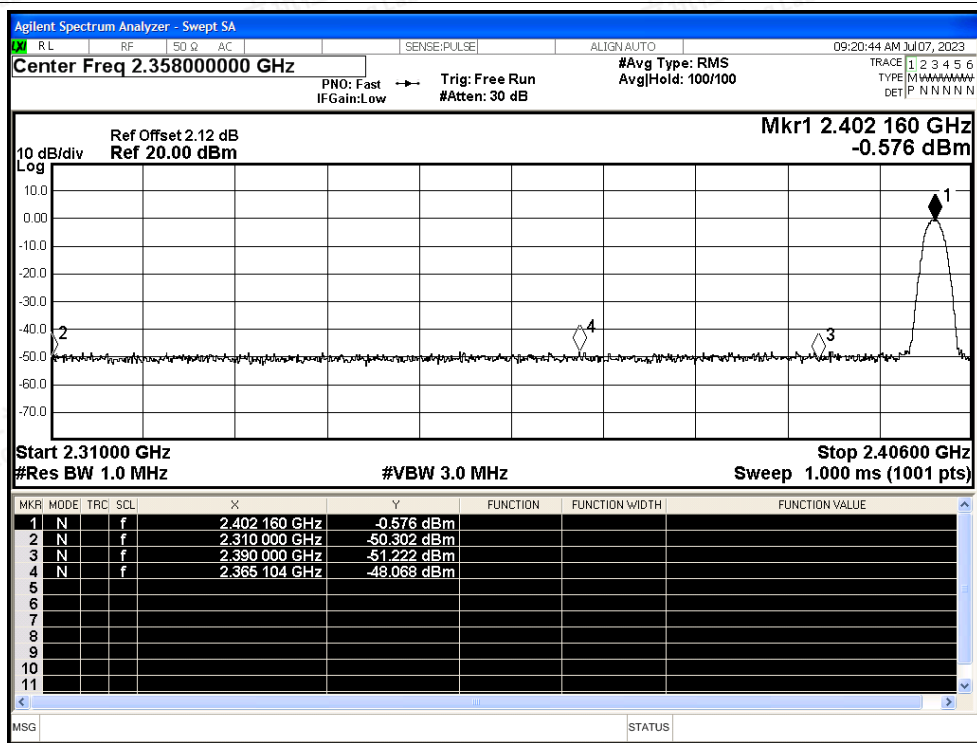


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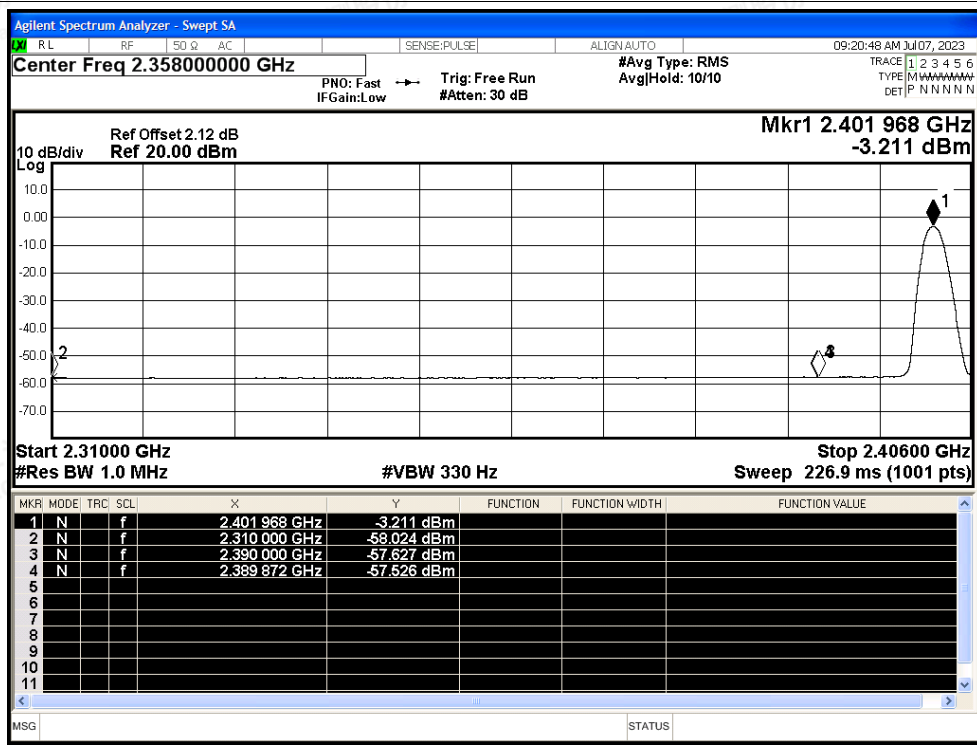




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

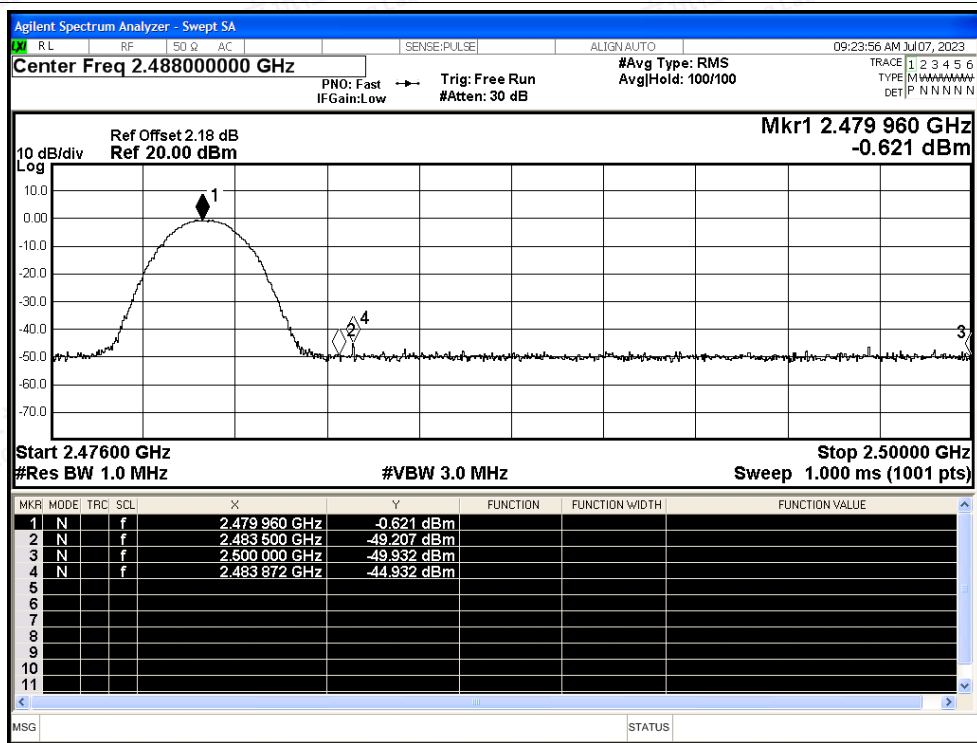


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

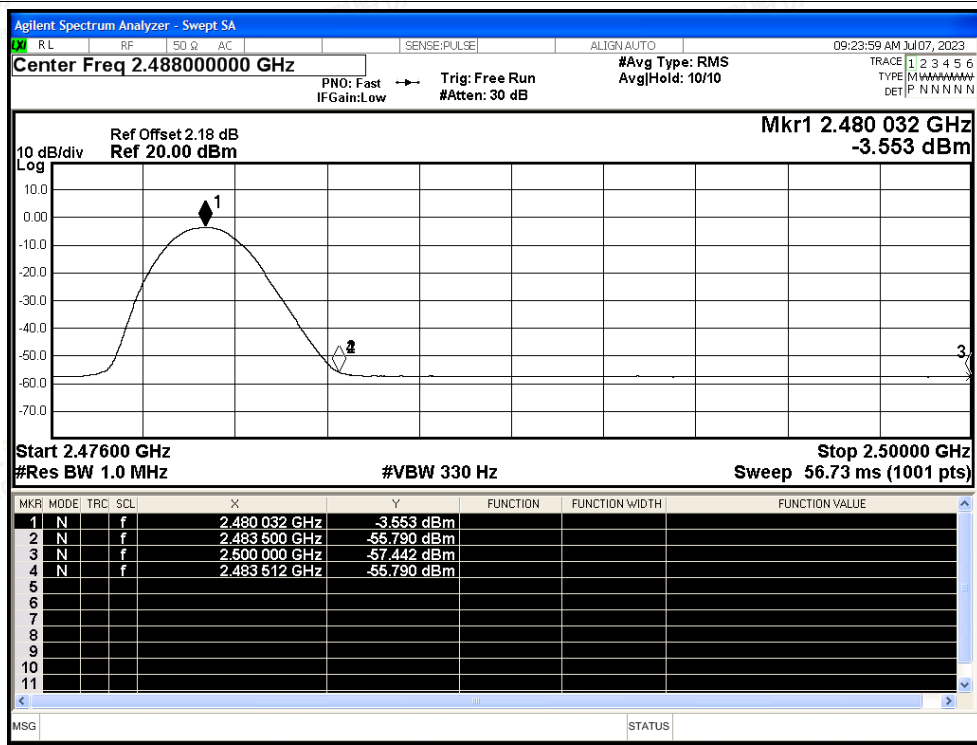




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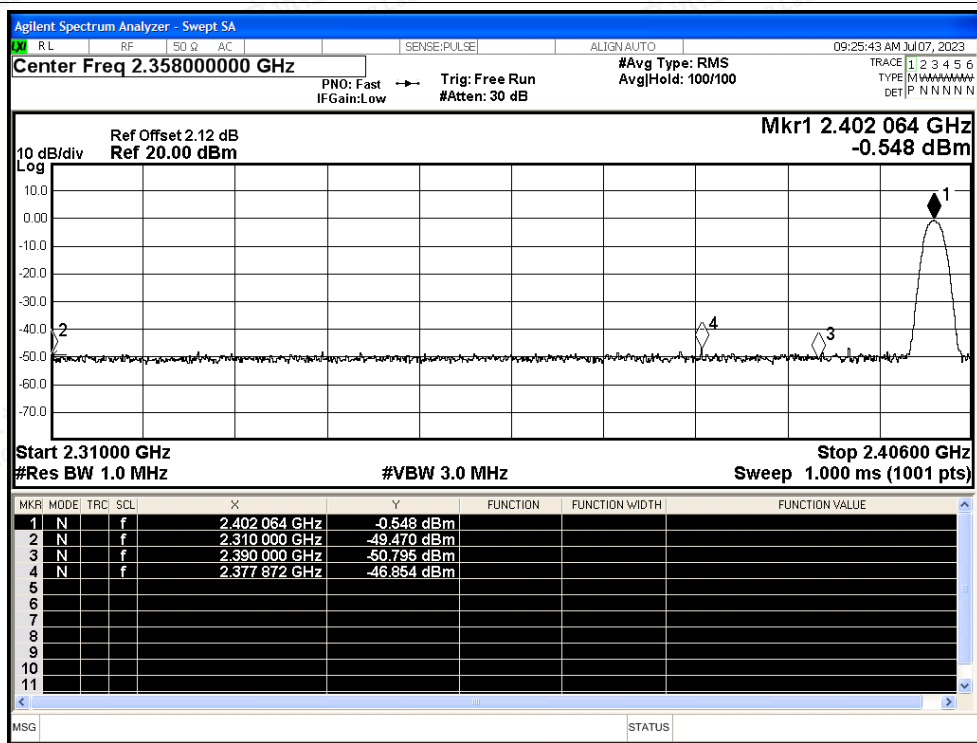


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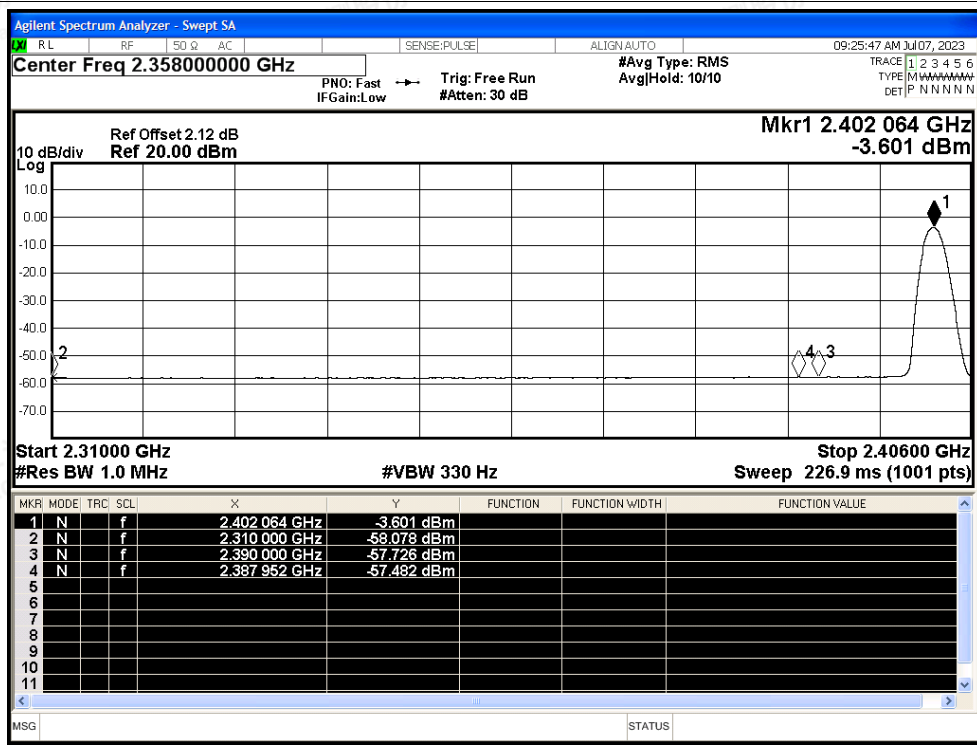




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

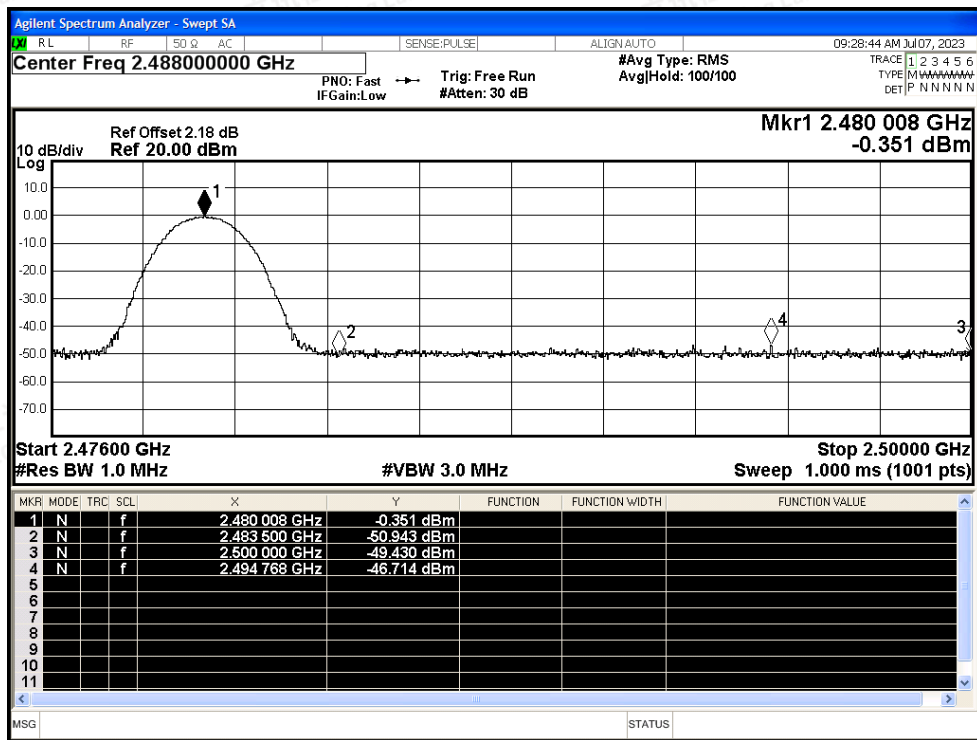


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

