



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Mibro Earphone O1

Test Model: XPEJ008

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>mening sou</i> Mening Sou
Supervised by:	<i>Libu</i> Li Huan



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A.1 -20dB Bandwidth

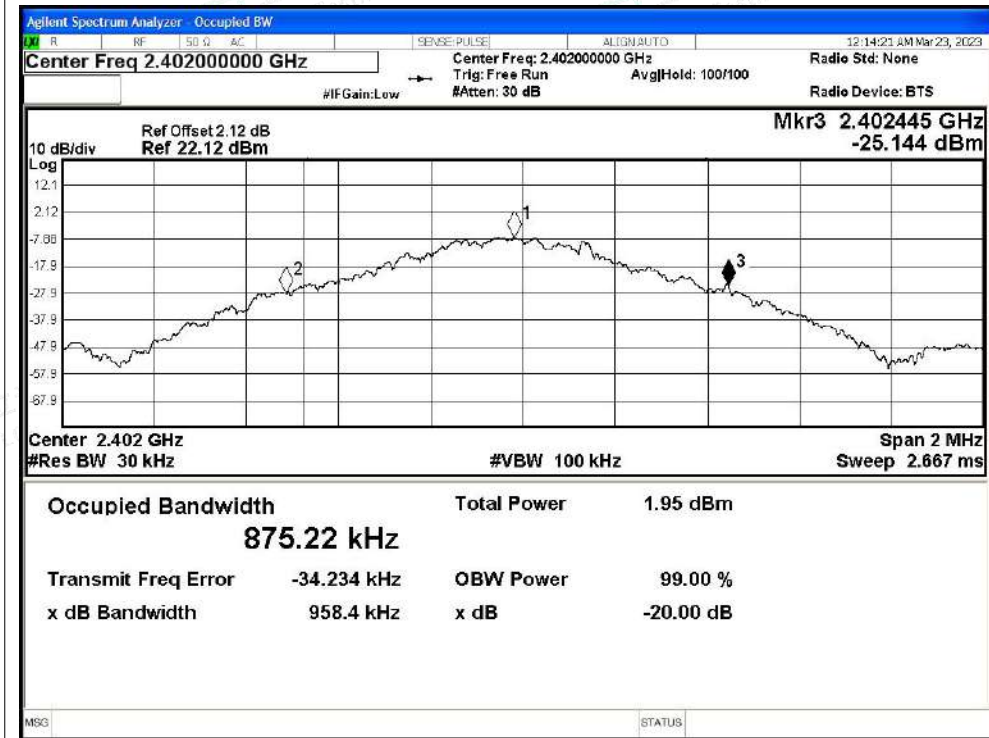
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.958	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.984	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.954	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.37	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.284	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.279	N/A	Pass



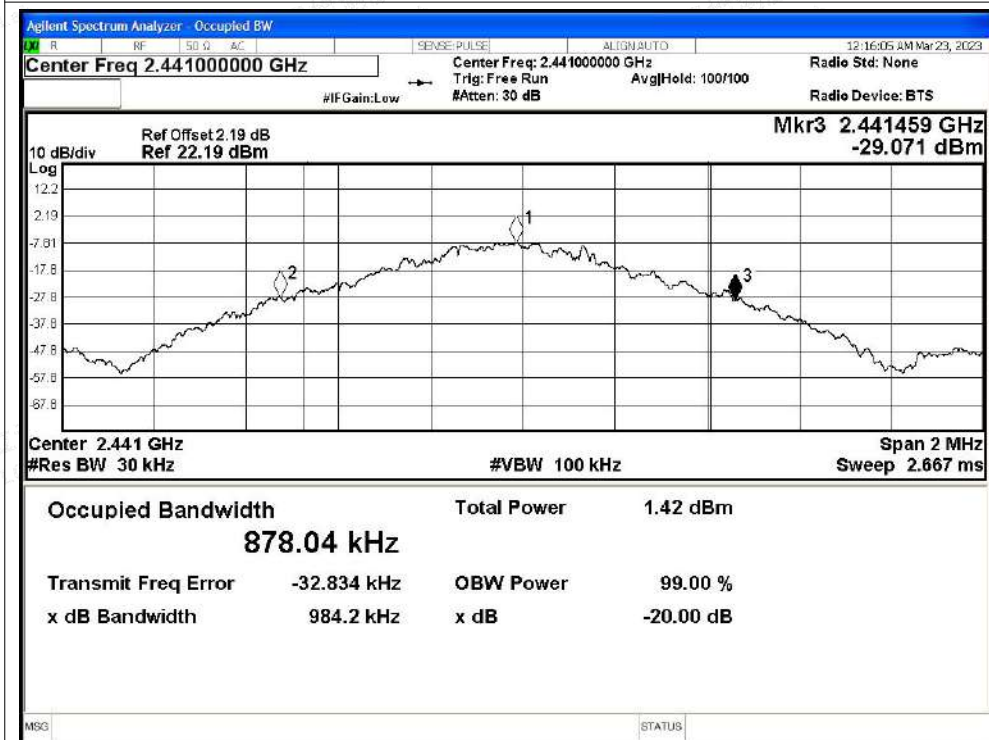


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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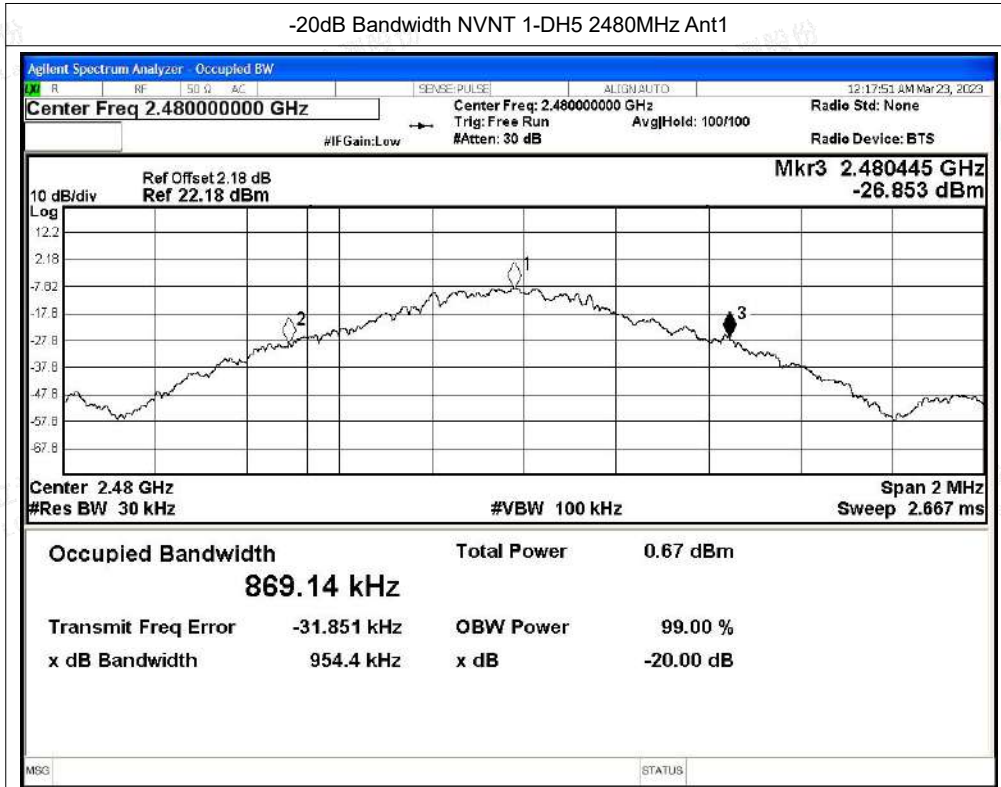
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

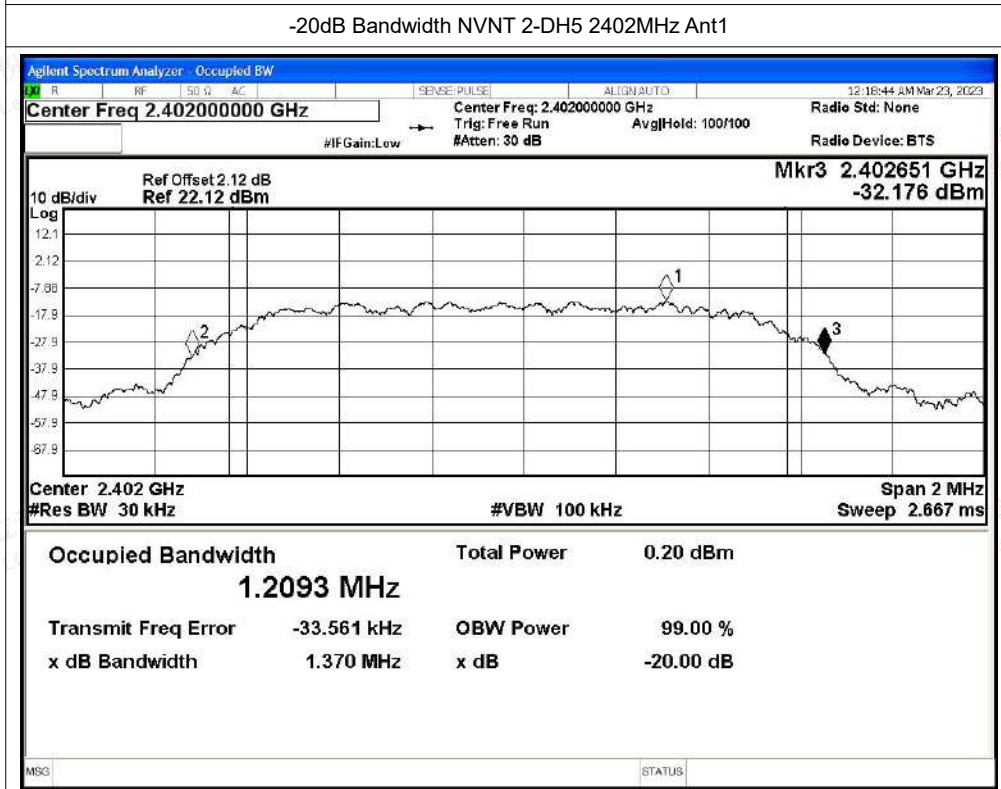
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

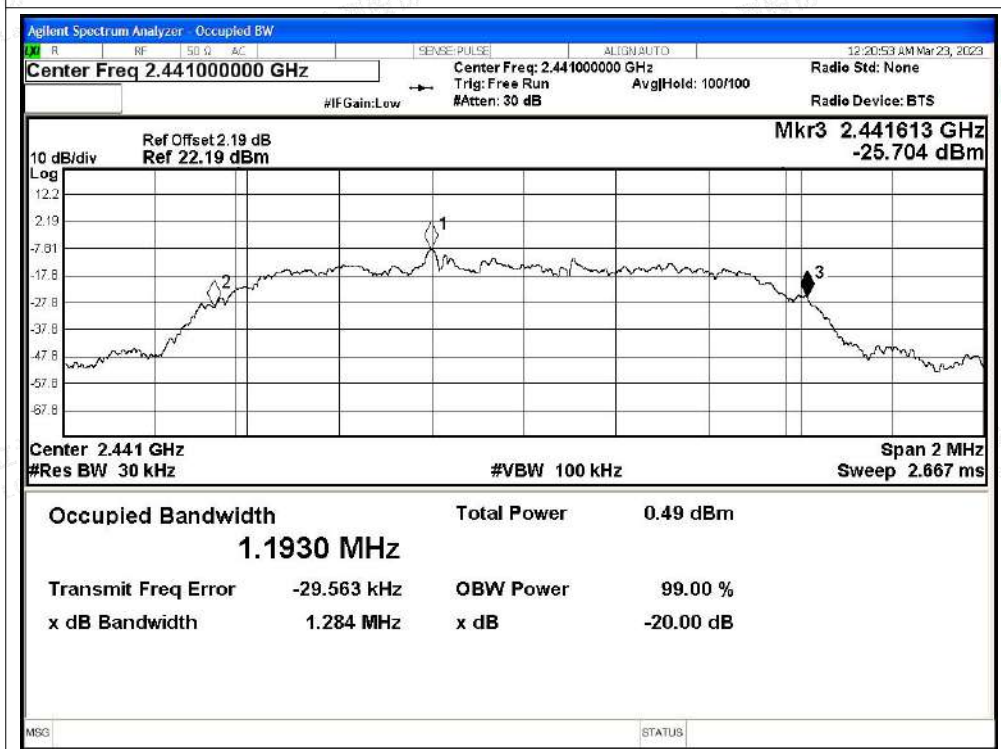


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

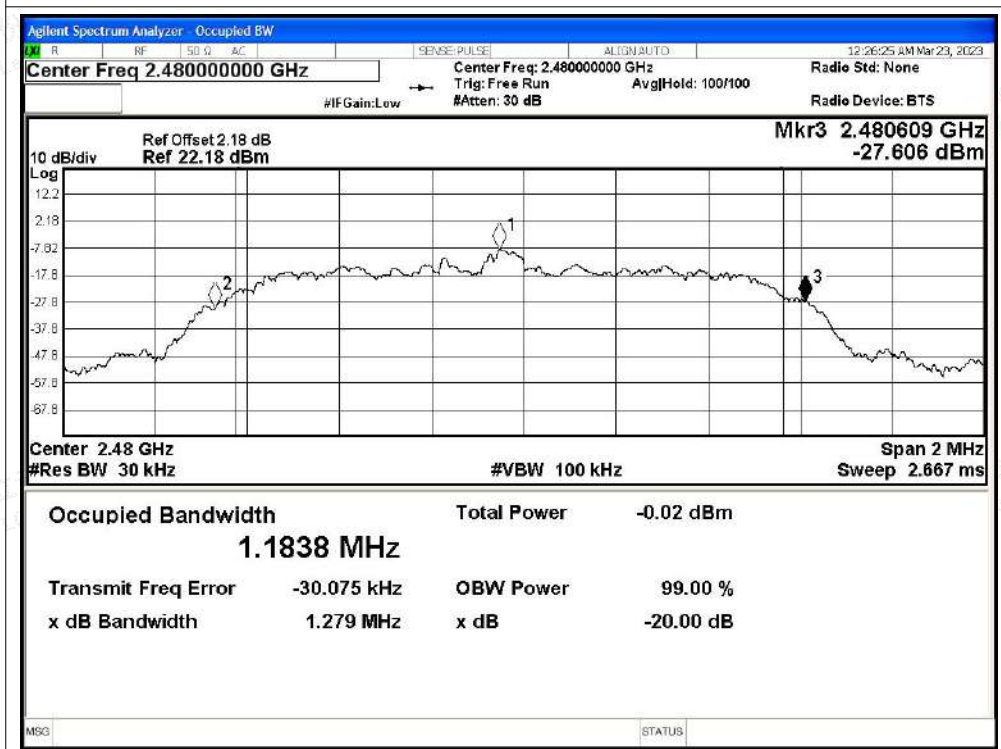




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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A.2 Maximum Conducted Output Power

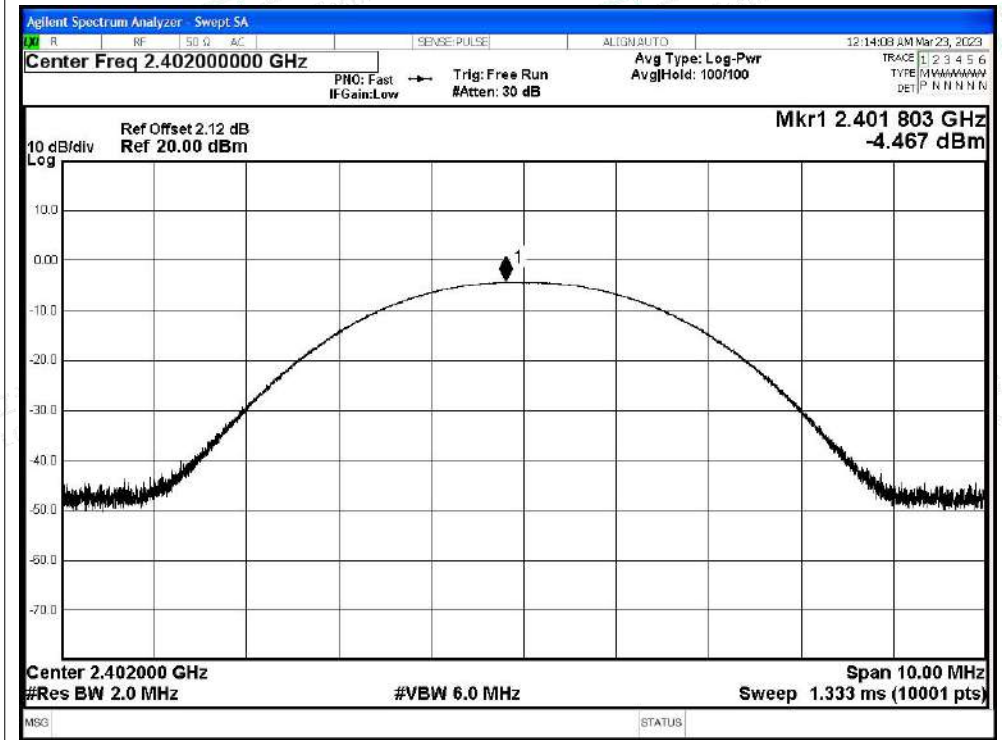
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-4.47	21	Pass
NVNT	1-DH5	2441	Ant1	-4.74	21	Pass
NVNT	1-DH5	2480	Ant1	-5.67	21	Pass
NVNT	2-DH5	2402	Ant1	-3.54	21	Pass
NVNT	2-DH5	2441	Ant1	-3.82	21	Pass
NVNT	2-DH5	2480	Ant1	-4.68	21	Pass



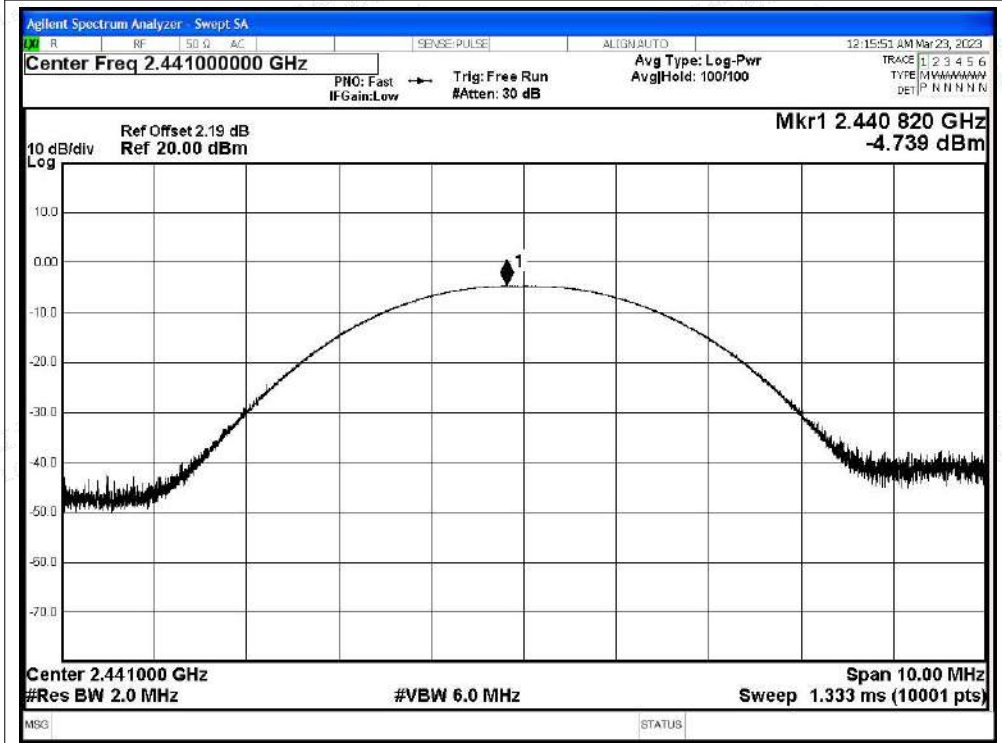


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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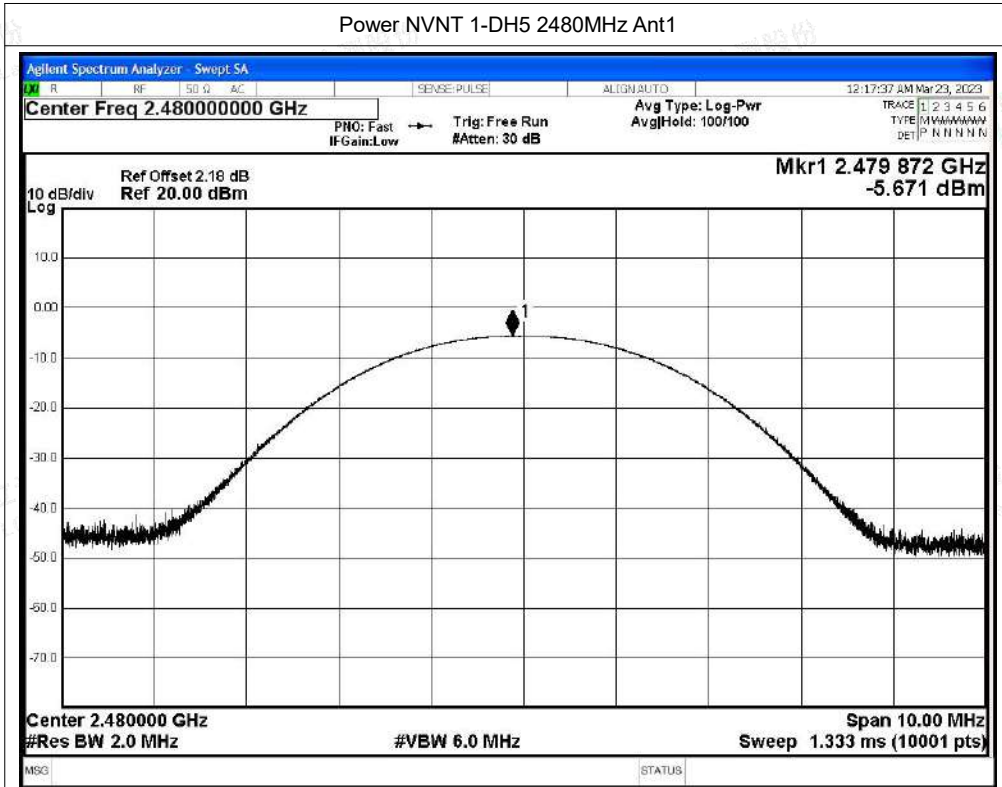
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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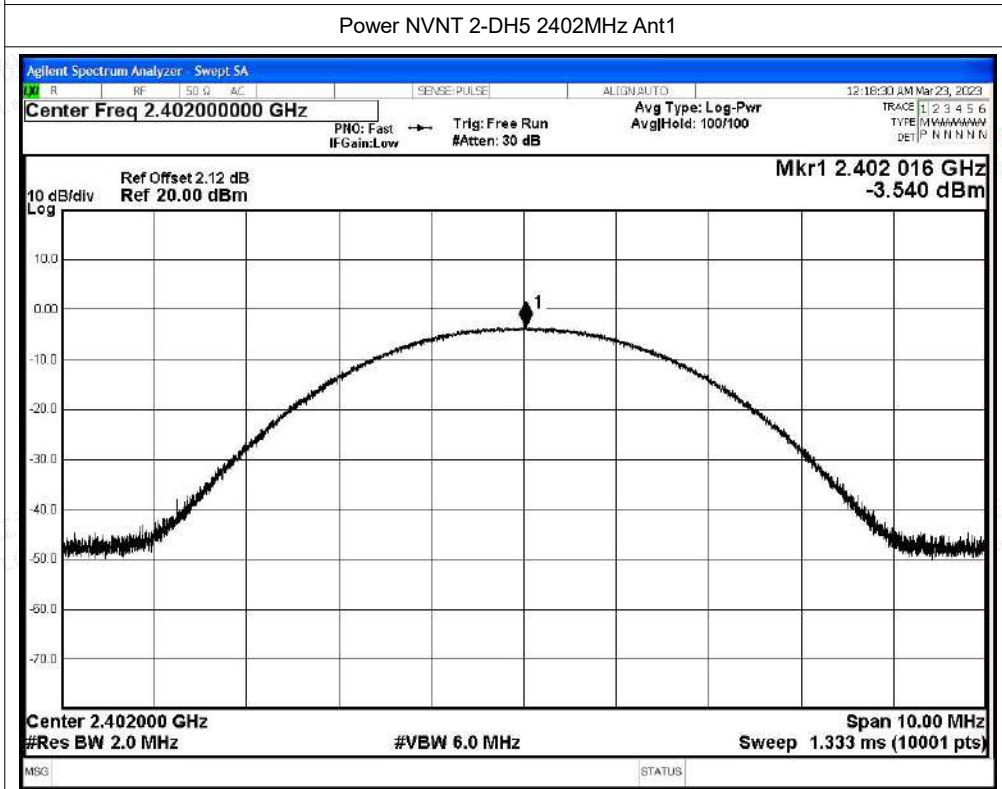
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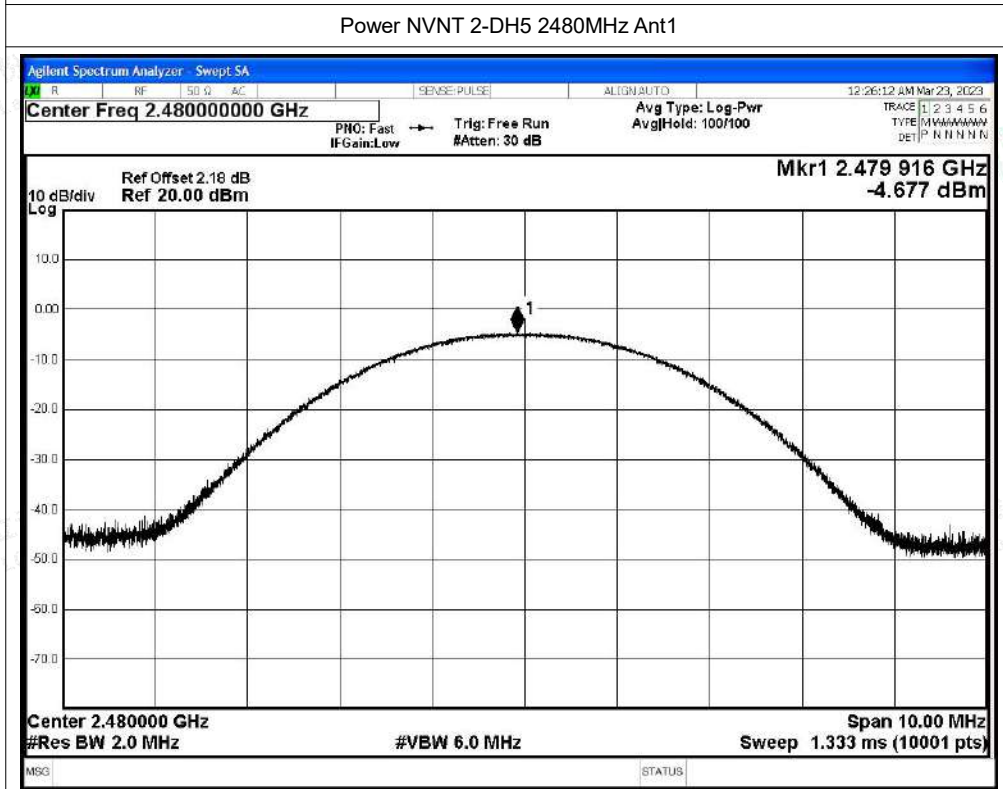
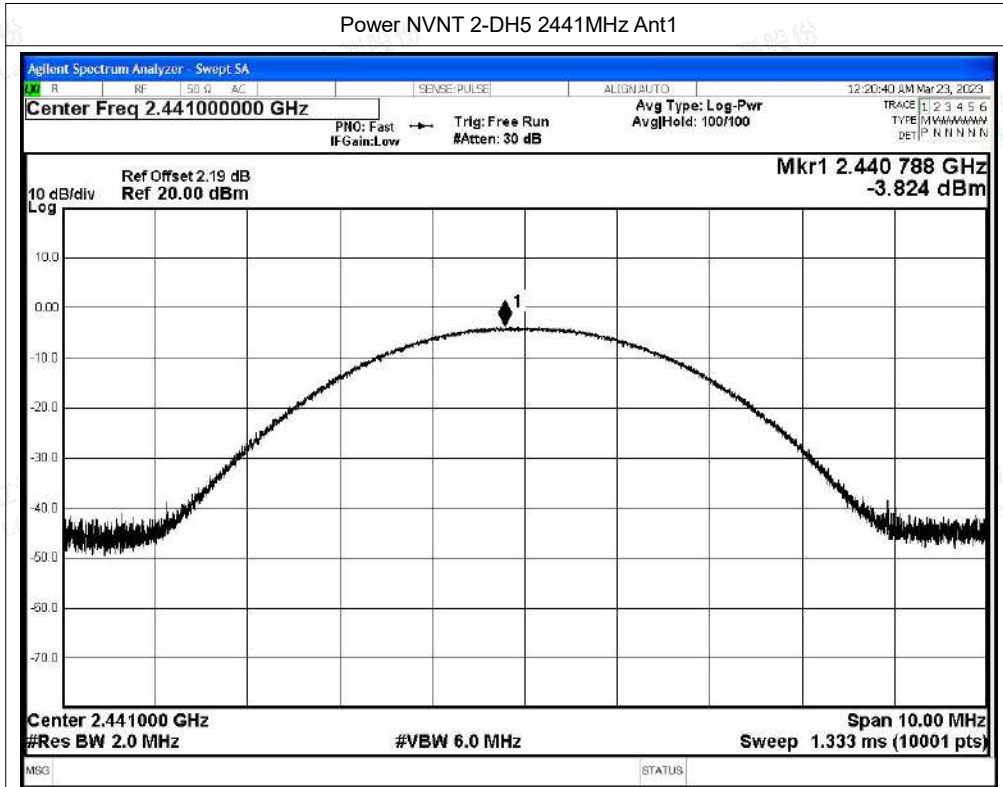


Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1







A.3 Carrier Frequencies Separation

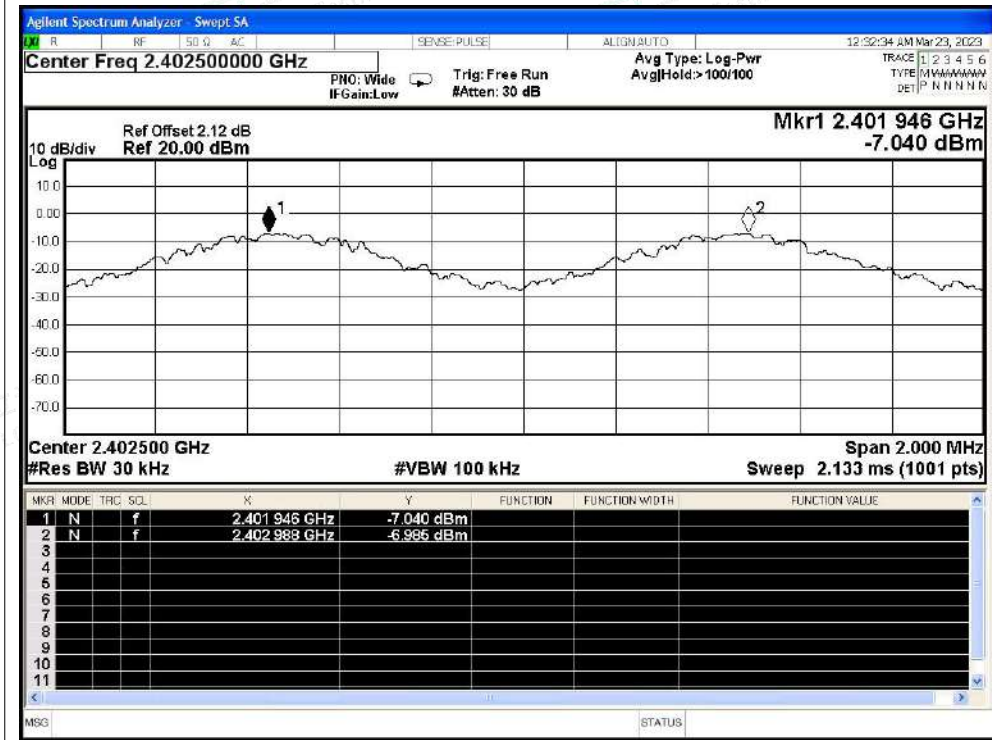
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.946	2402.988	1.042	0.656	Pass
NVNT	2-DH5	Ant1	2401.958	2402.95	0.992	0.913	Pass



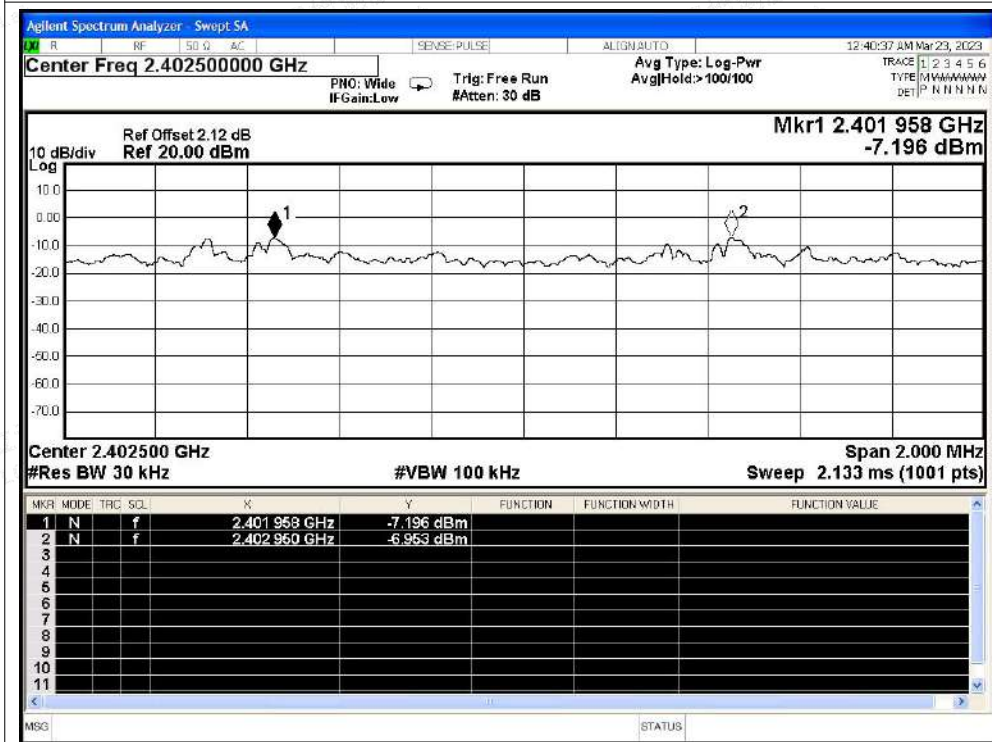


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1





A.4 Dwell Time

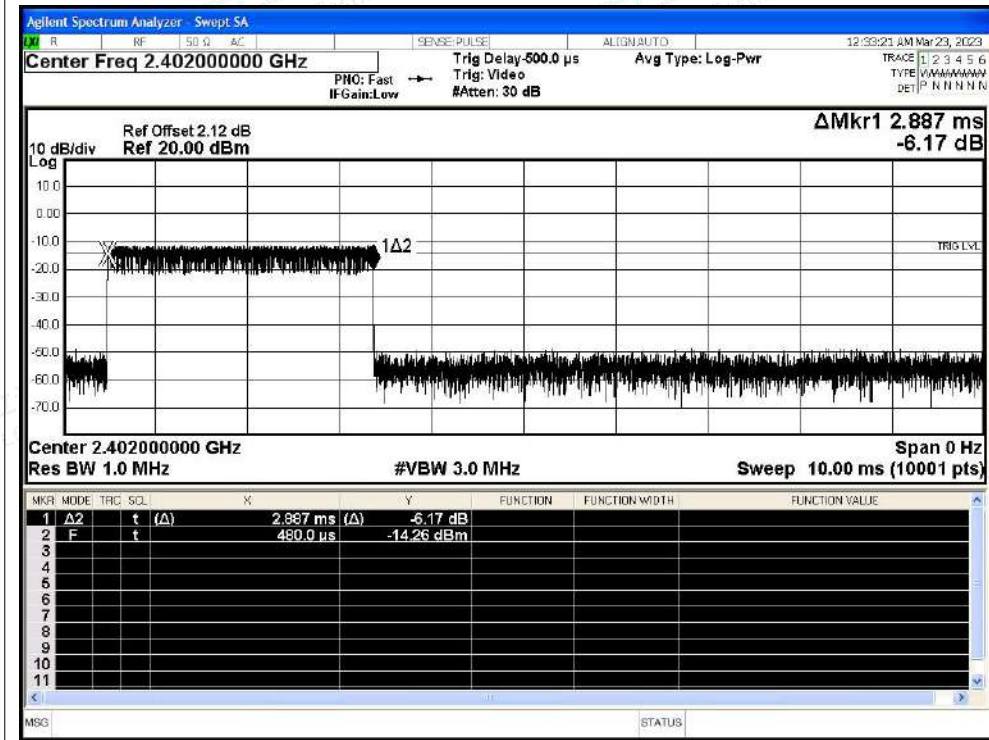
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.887	303.135	105	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.891	320.901	111	31600	400	Pass



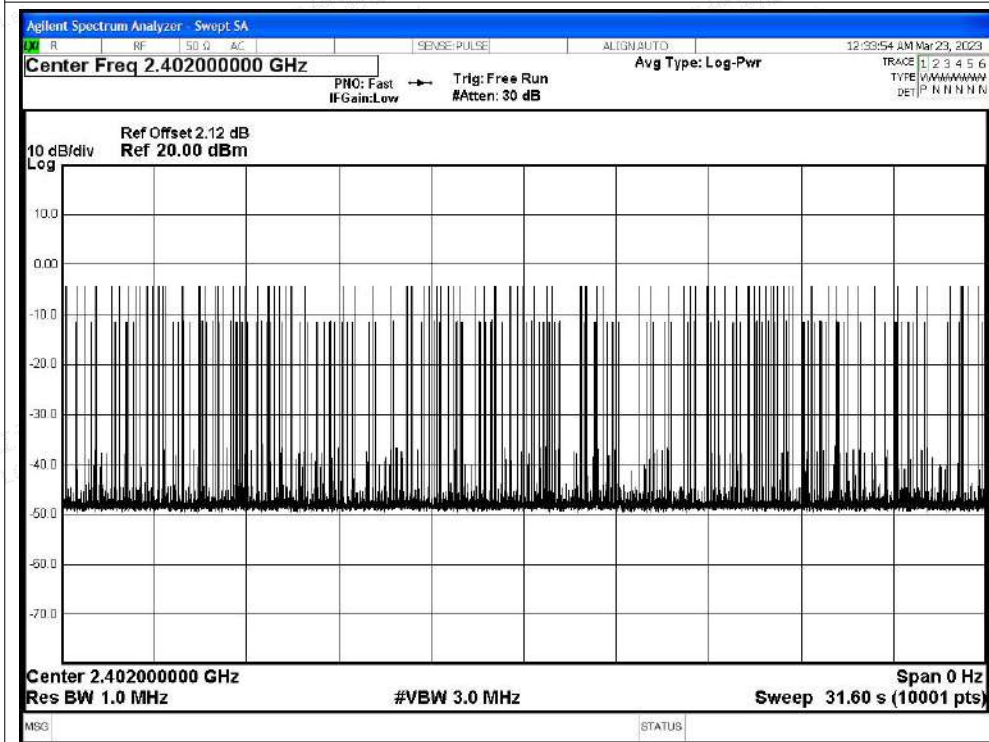


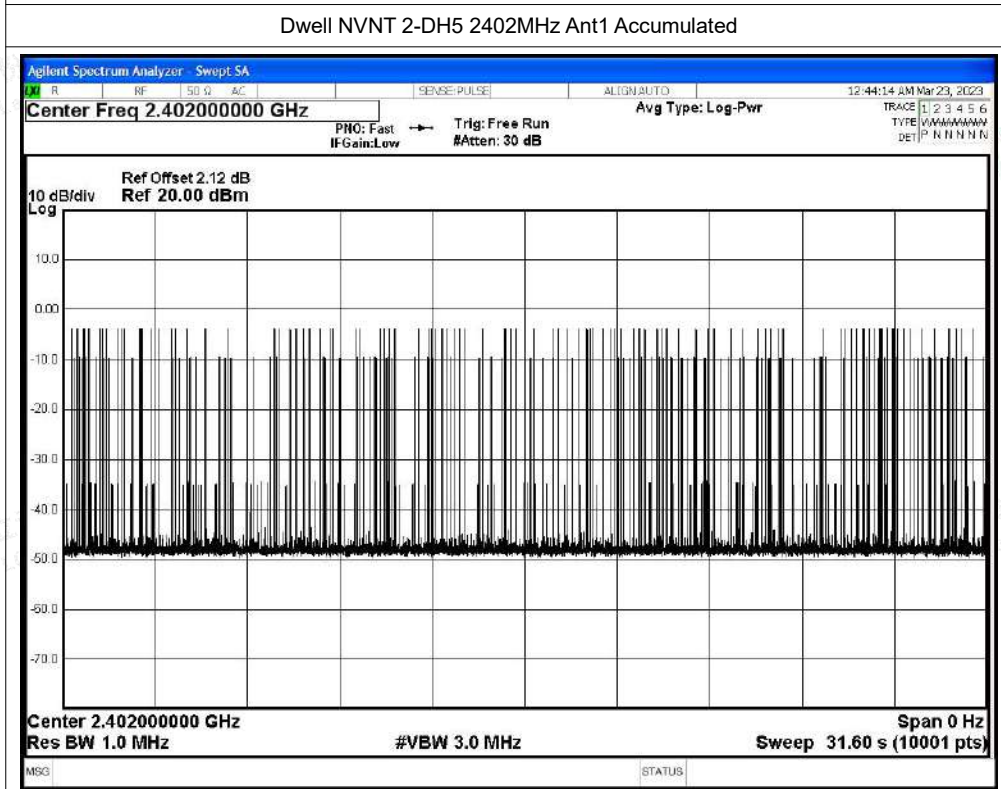
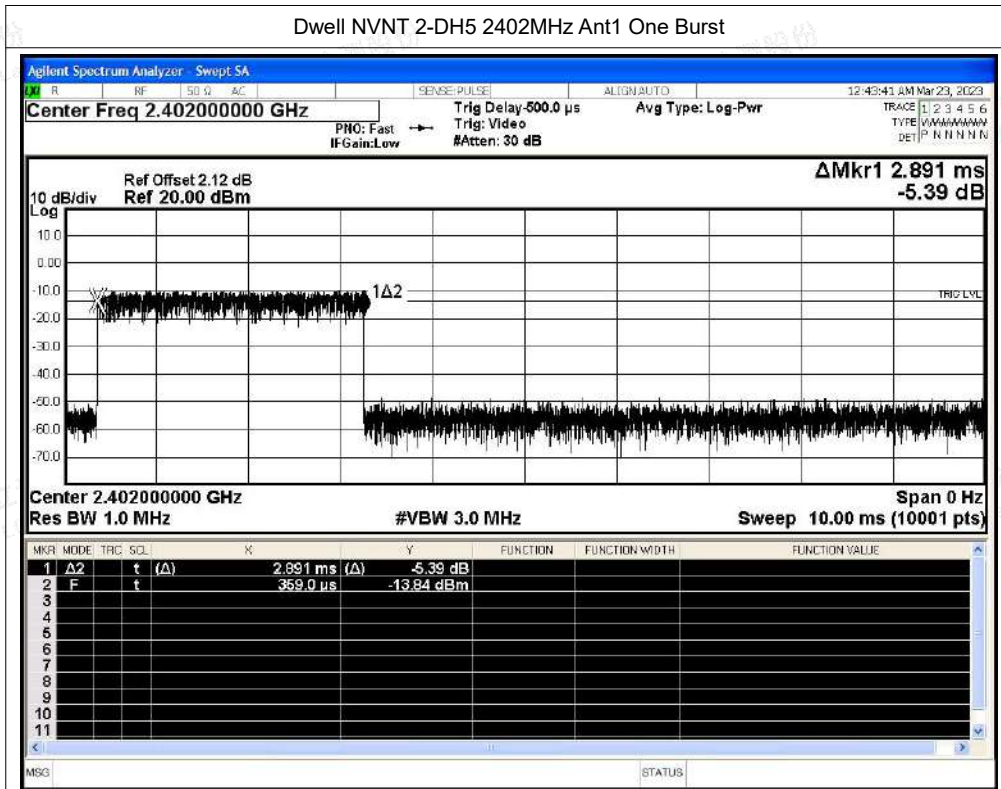
Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-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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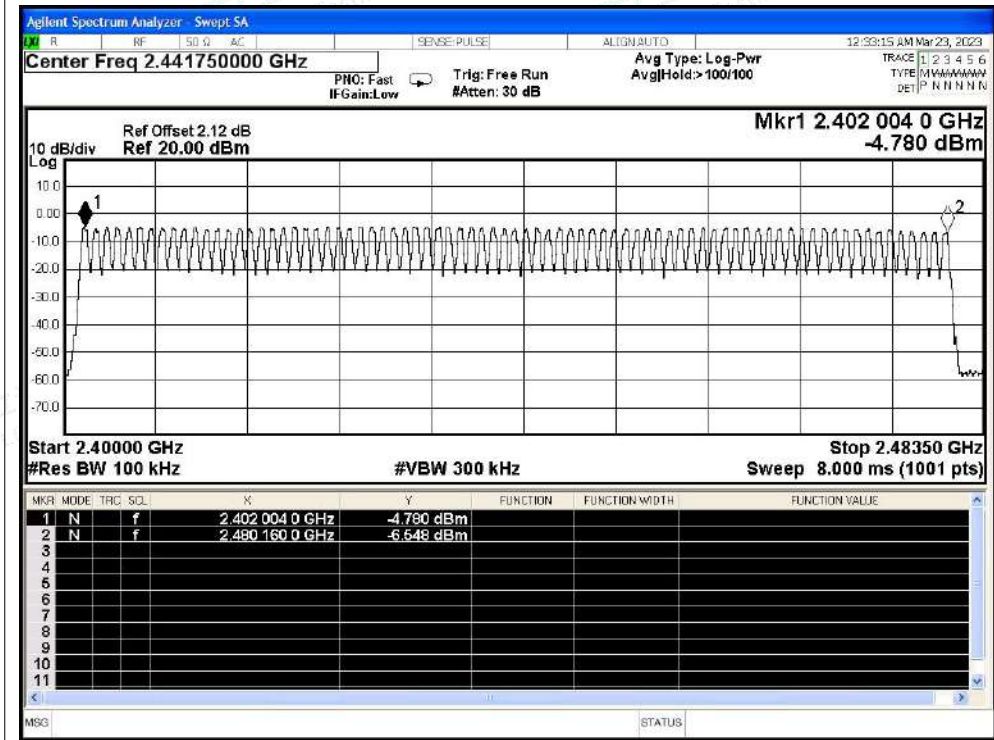
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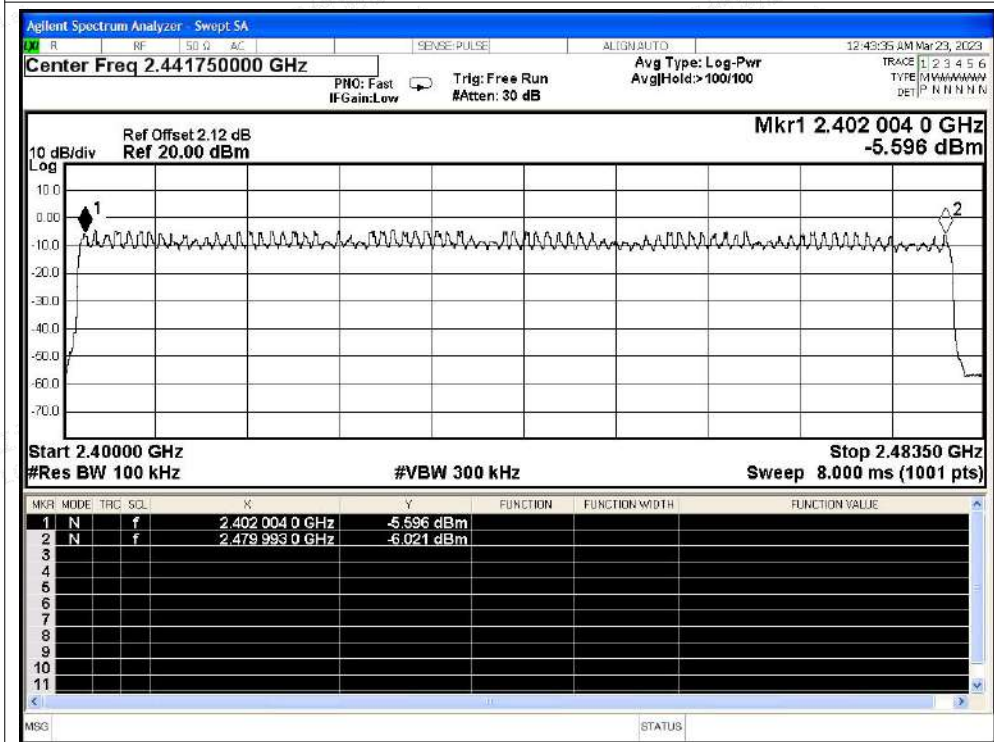


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

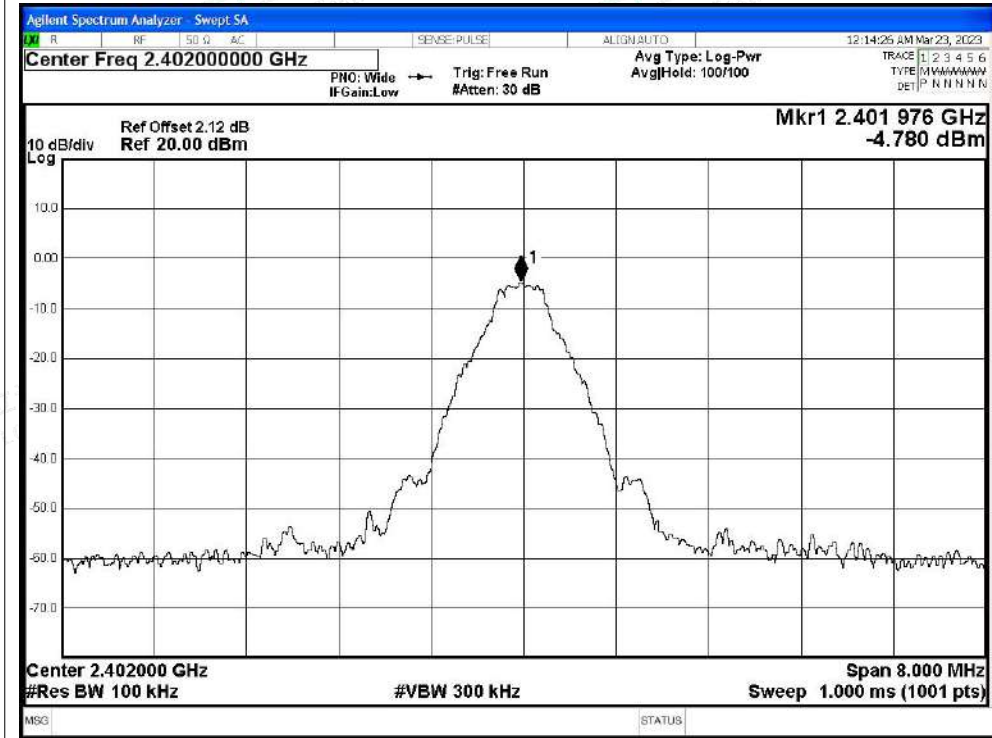
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-48.92	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-50.41	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.1	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-50.63	-20	Pass



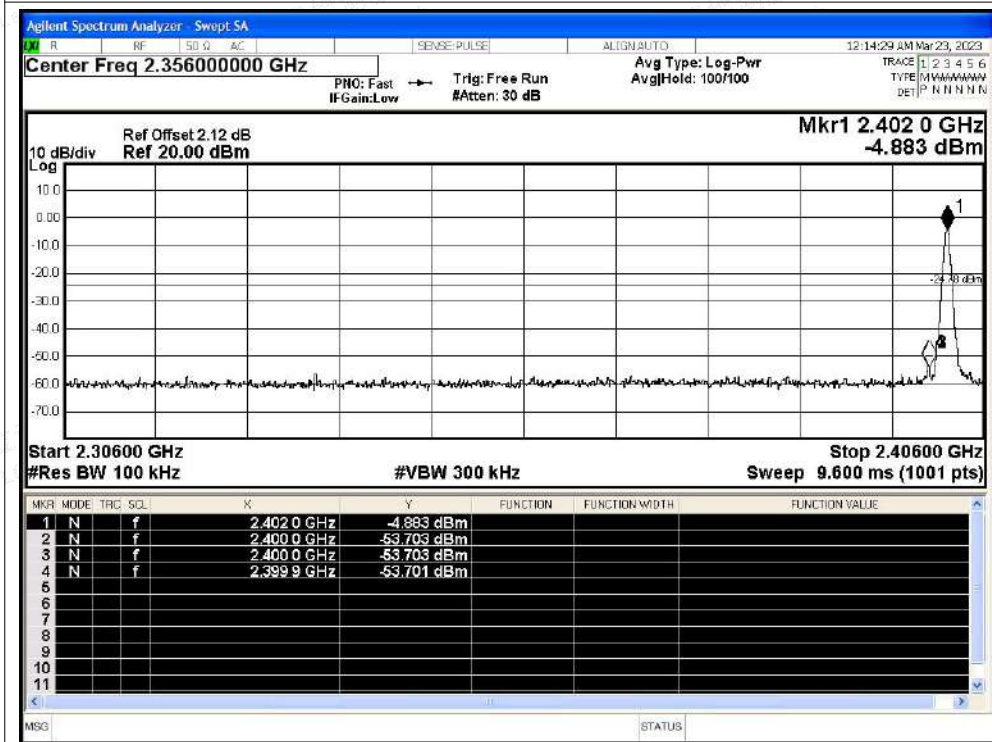


Test Graphs

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

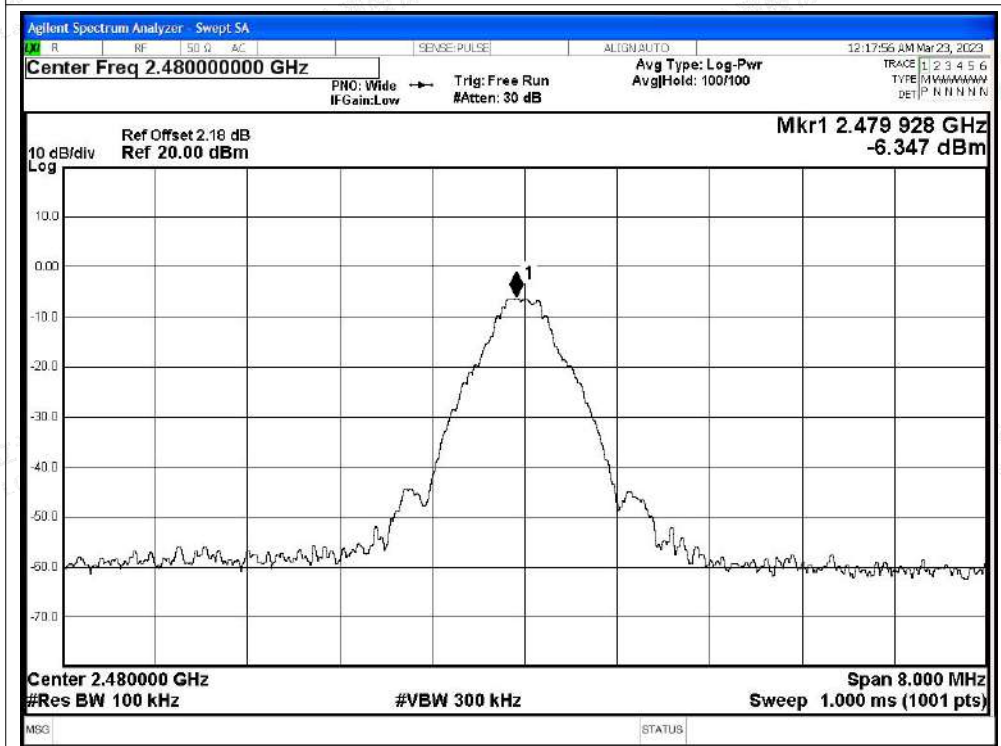


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

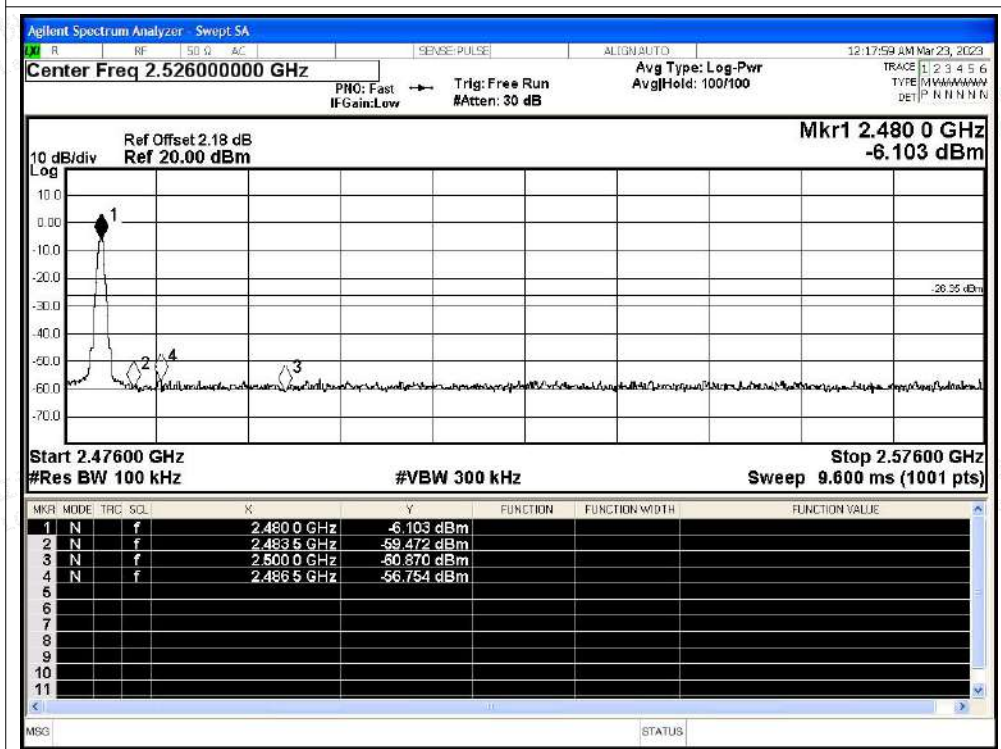




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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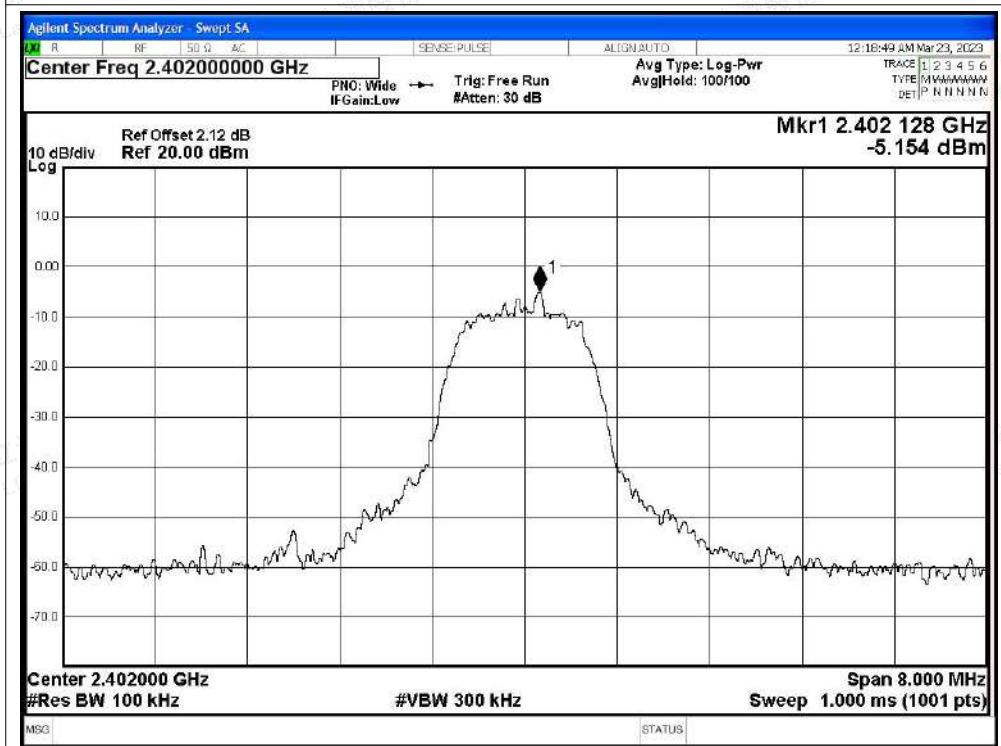
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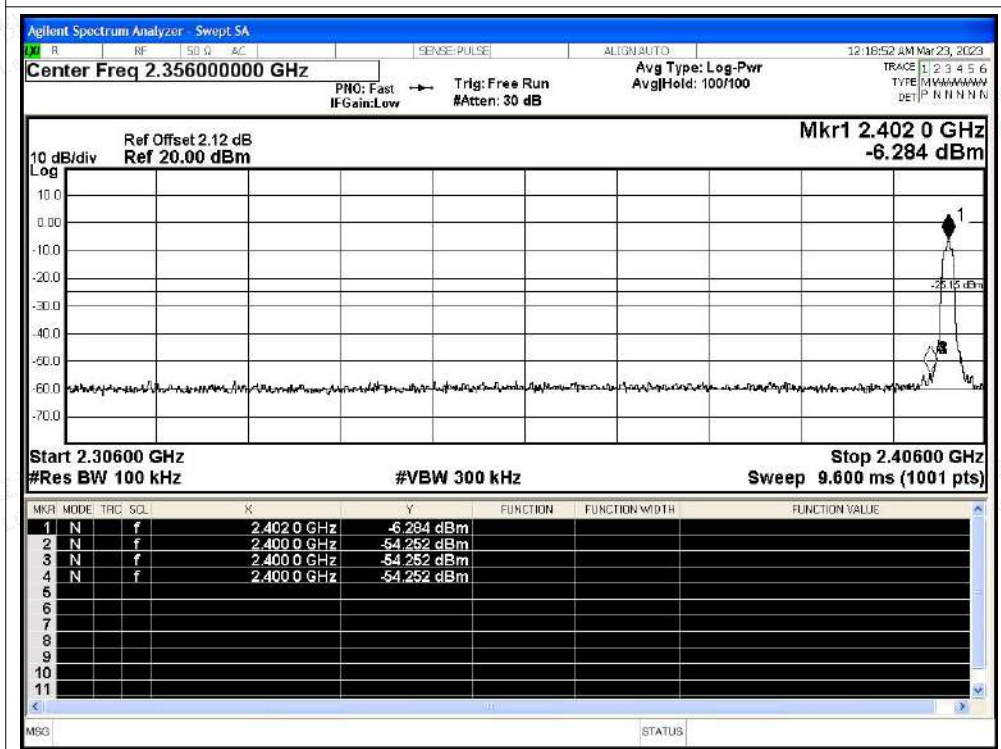
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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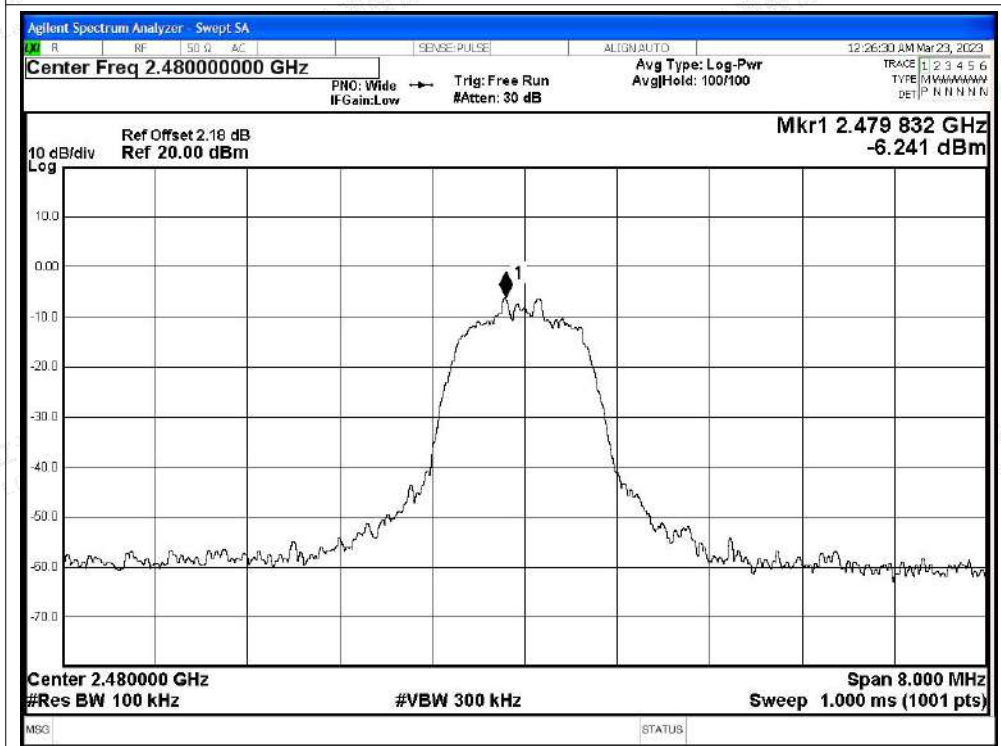
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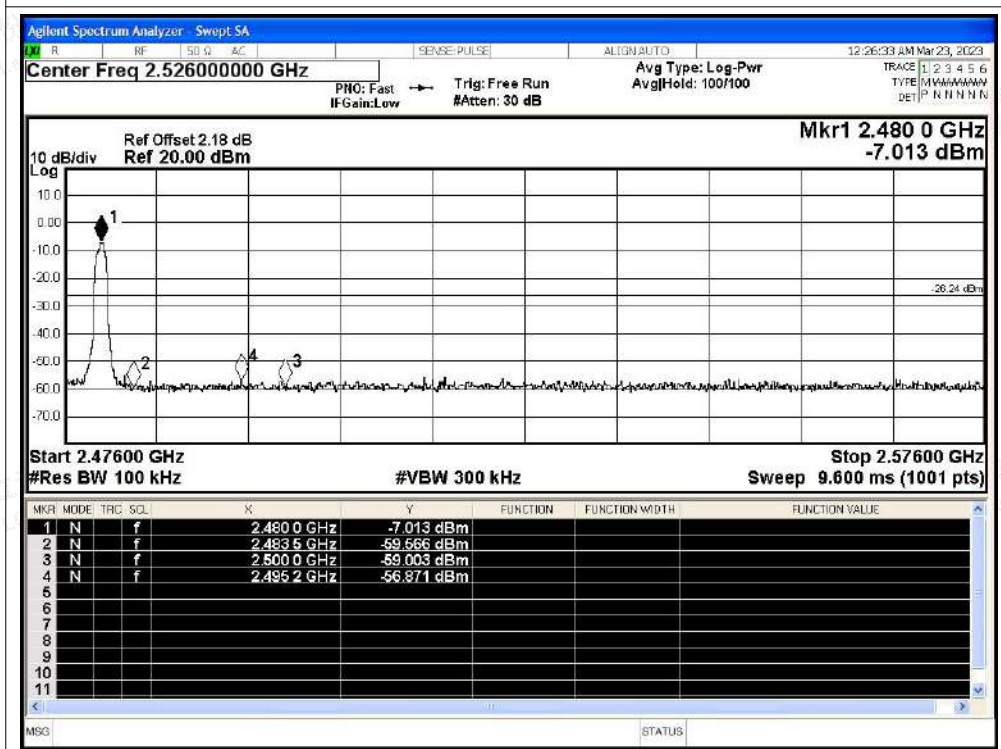
Scan code to check authenticity



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



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



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(Hopping)

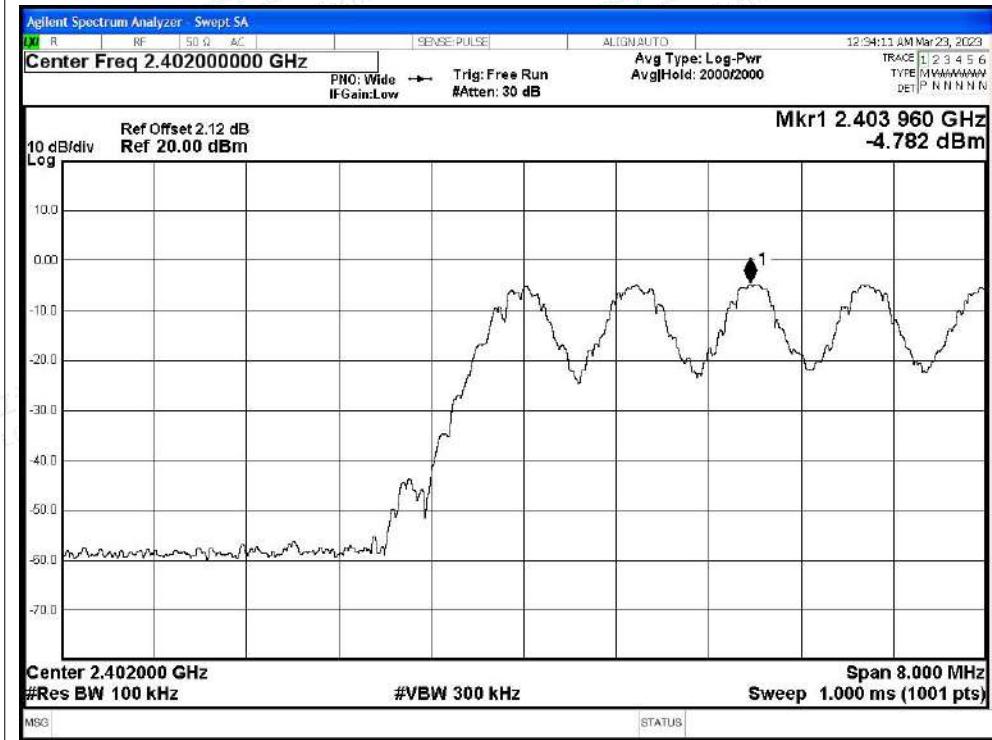
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-51.25	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-50.07	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-49.04	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-46.66	-20	Pass



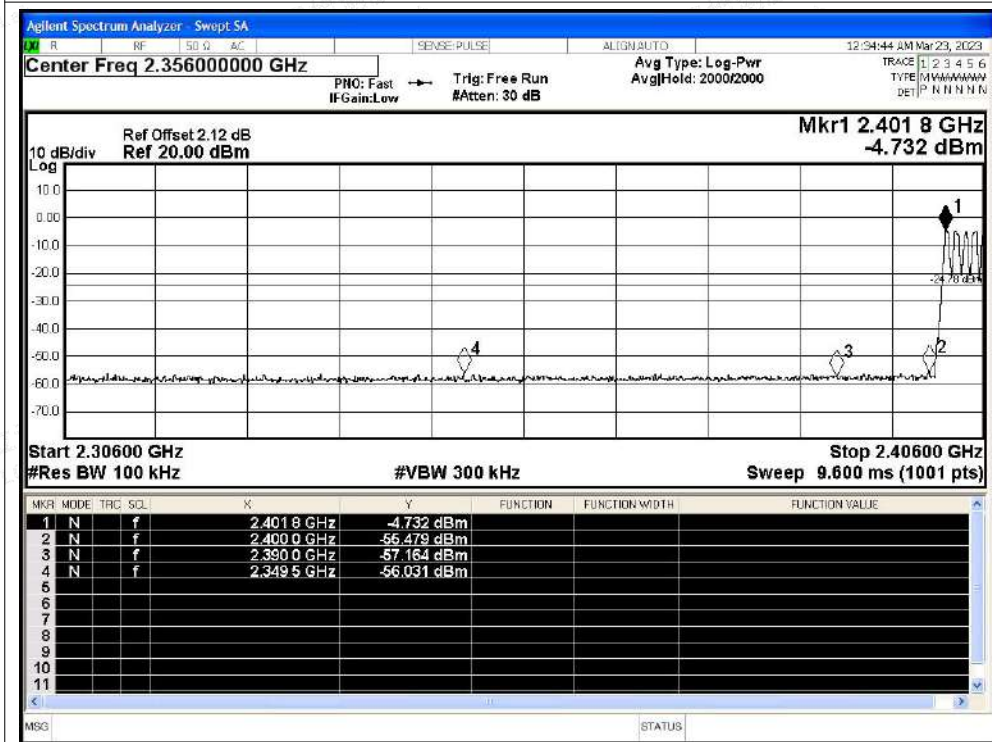


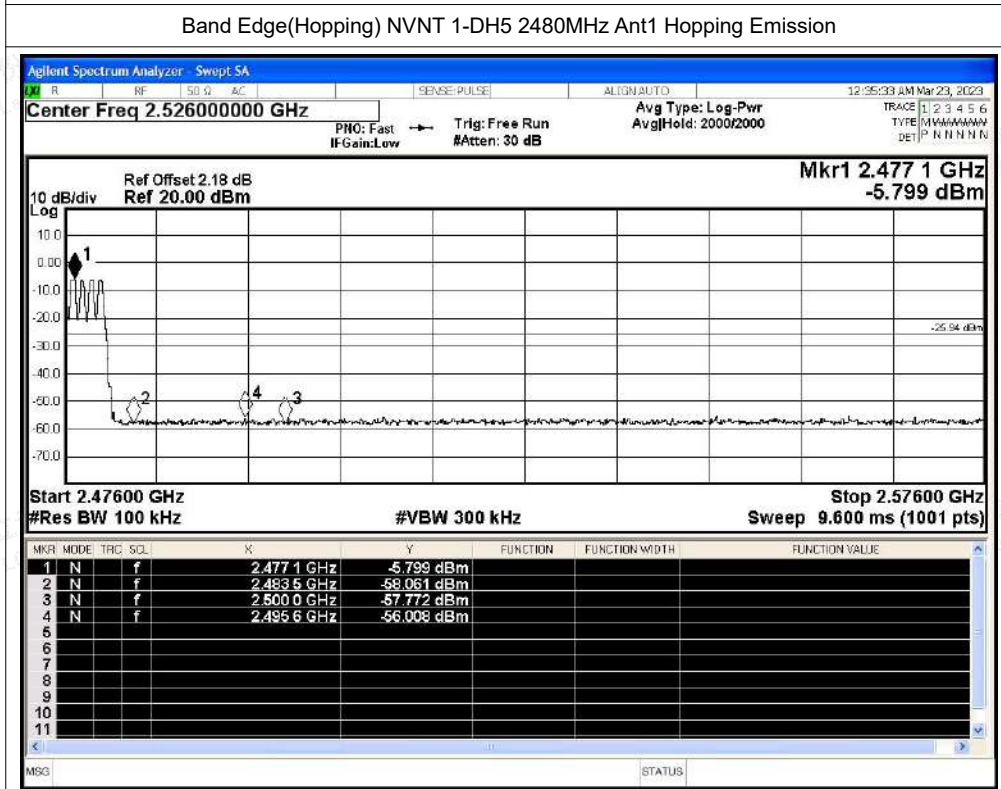
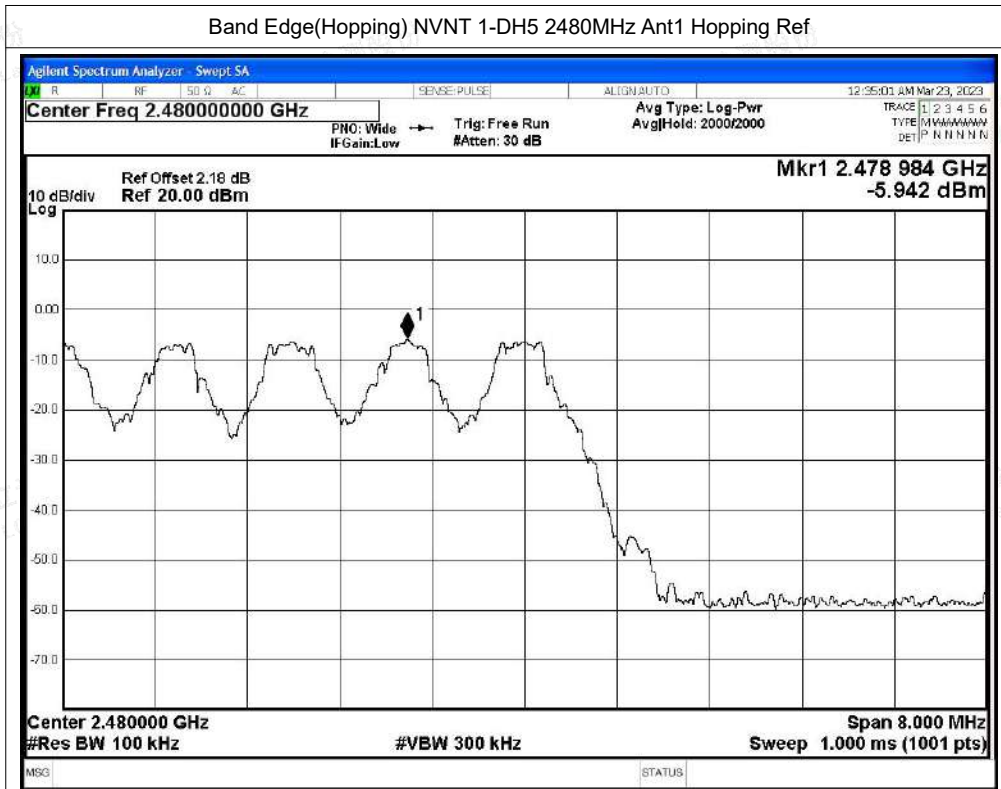
Test Graphs

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



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



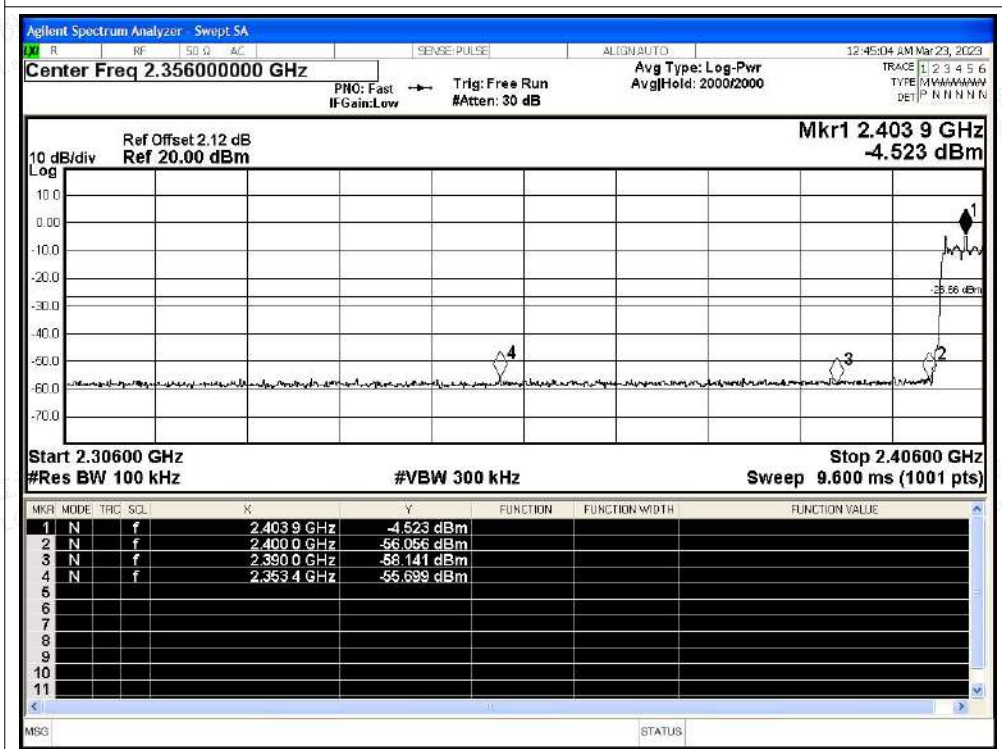




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



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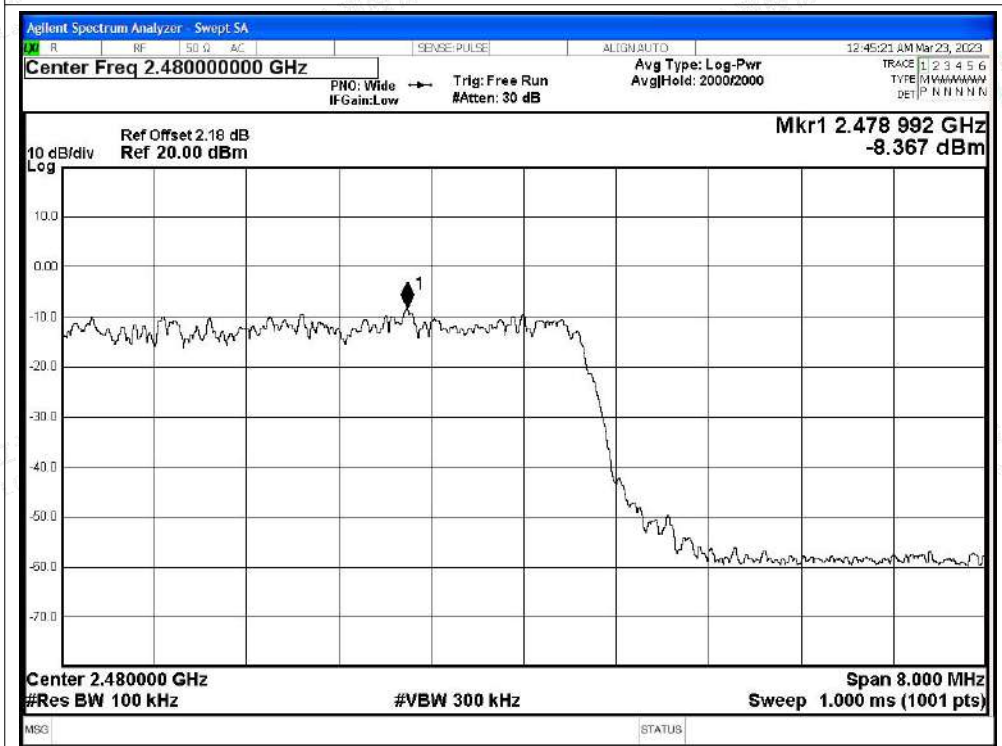
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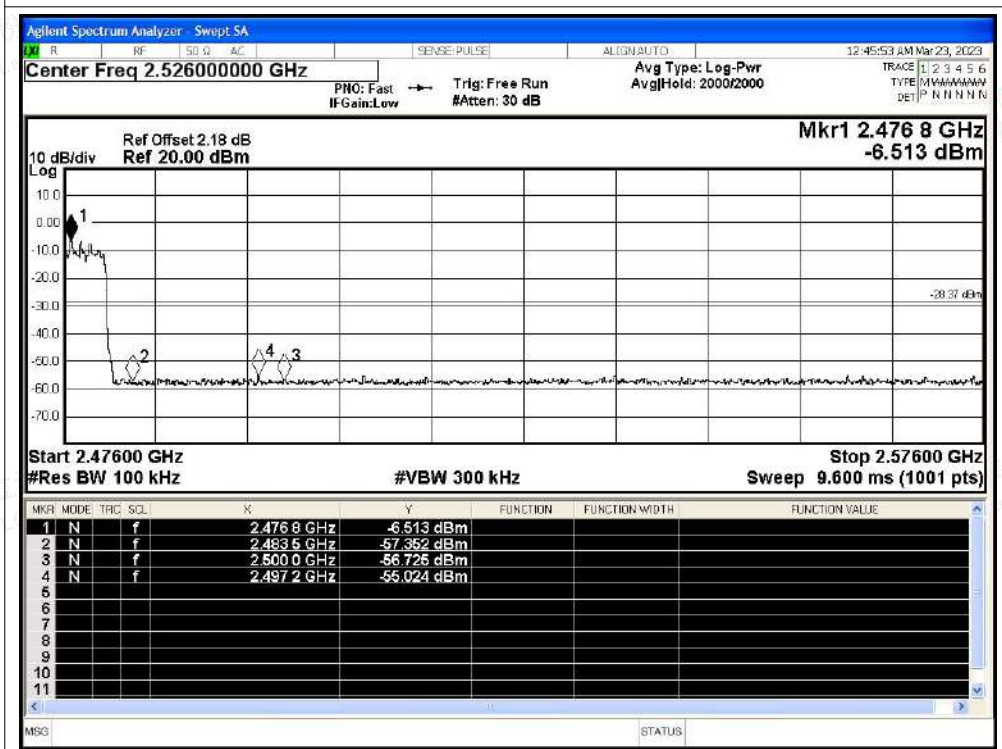
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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



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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-27.44	-20	Pass
NVNT	1-DH5	2441	Ant1	-26.03	-20	Pass
NVNT	1-DH5	2480	Ant1	-25.22	-20	Pass
NVNT	2-DH5	2402	Ant1	-27.59	-20	Pass
NVNT	2-DH5	2441	Ant1	-25.59	-20	Pass
NVNT	2-DH5	2480	Ant1	-25.07	-20	Pass



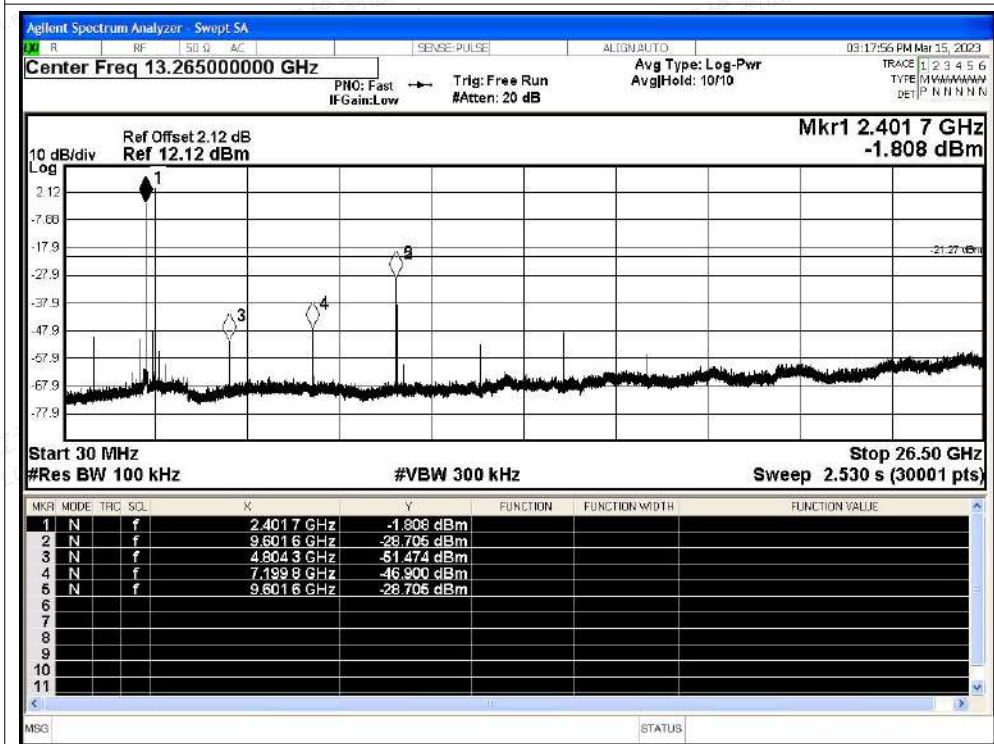


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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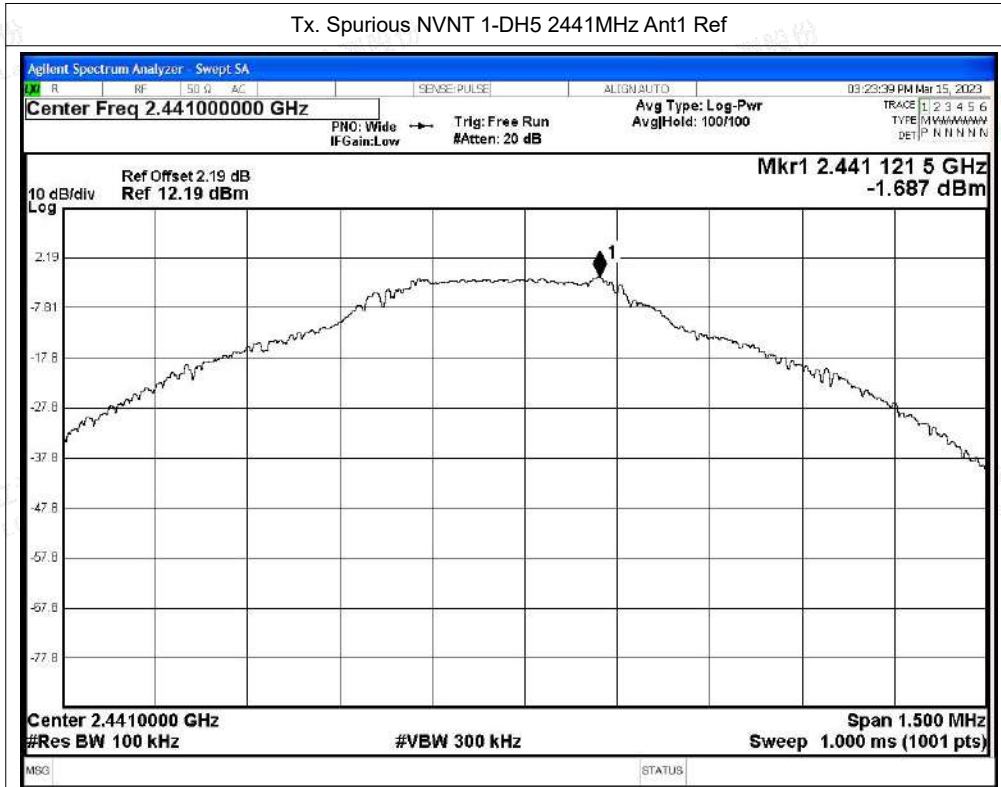
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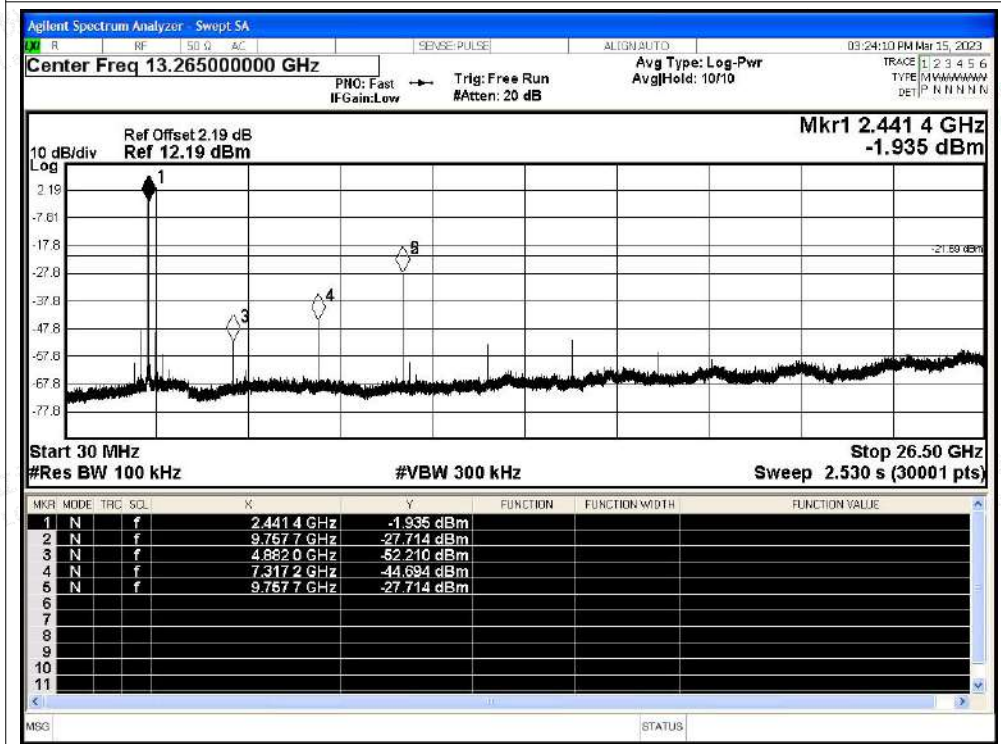
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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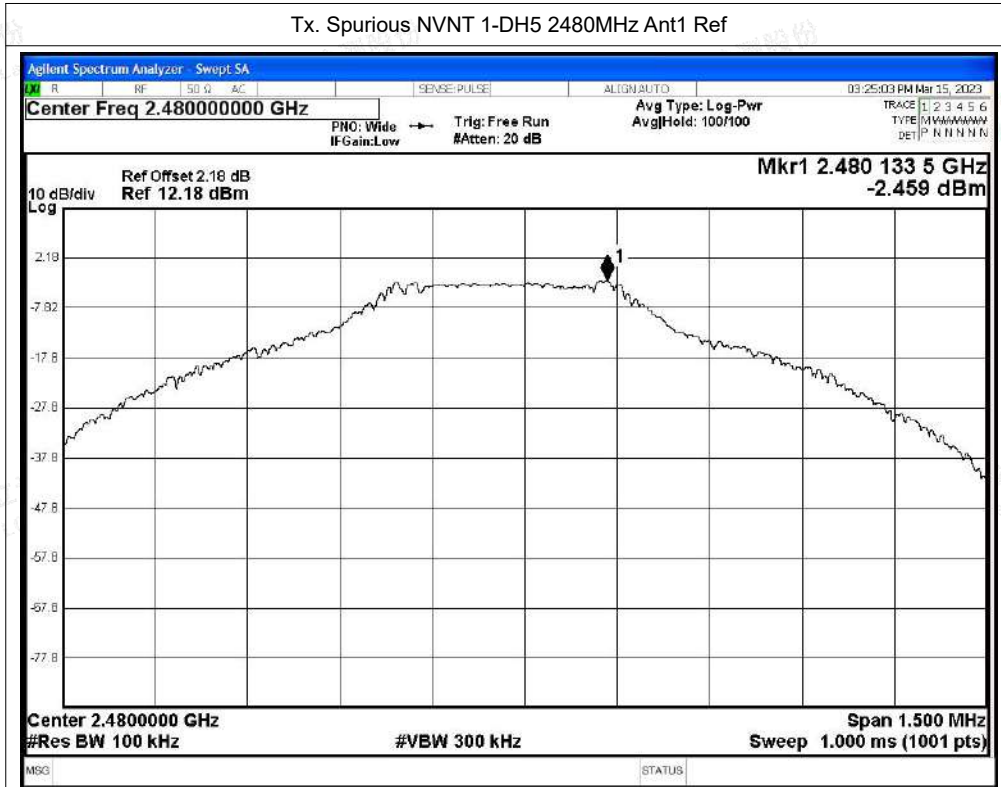
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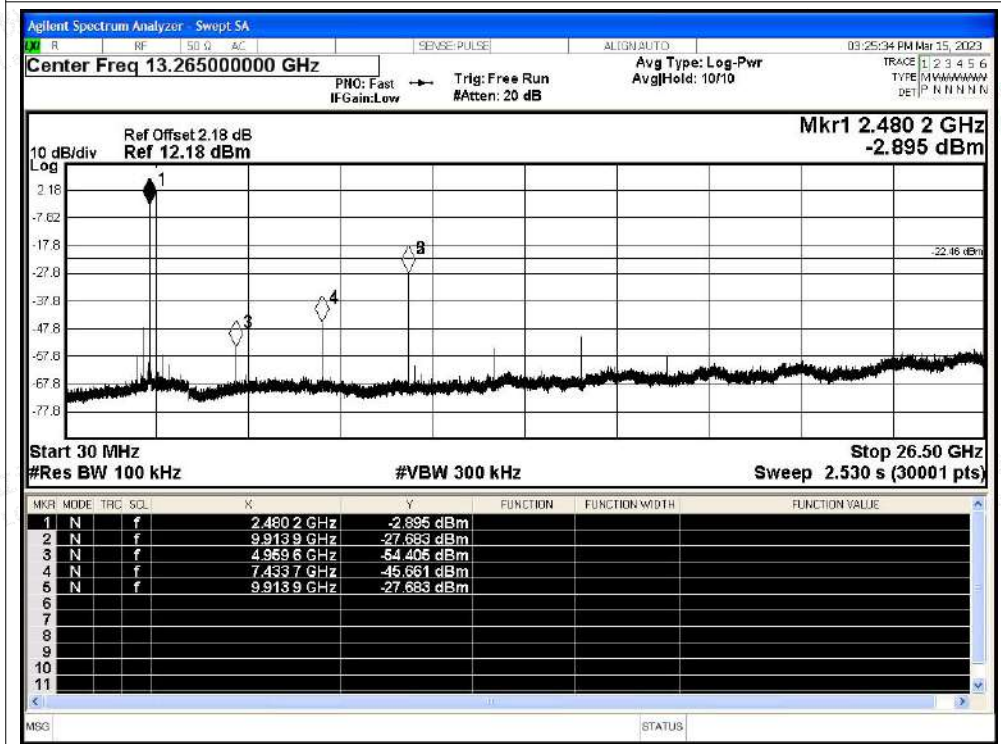
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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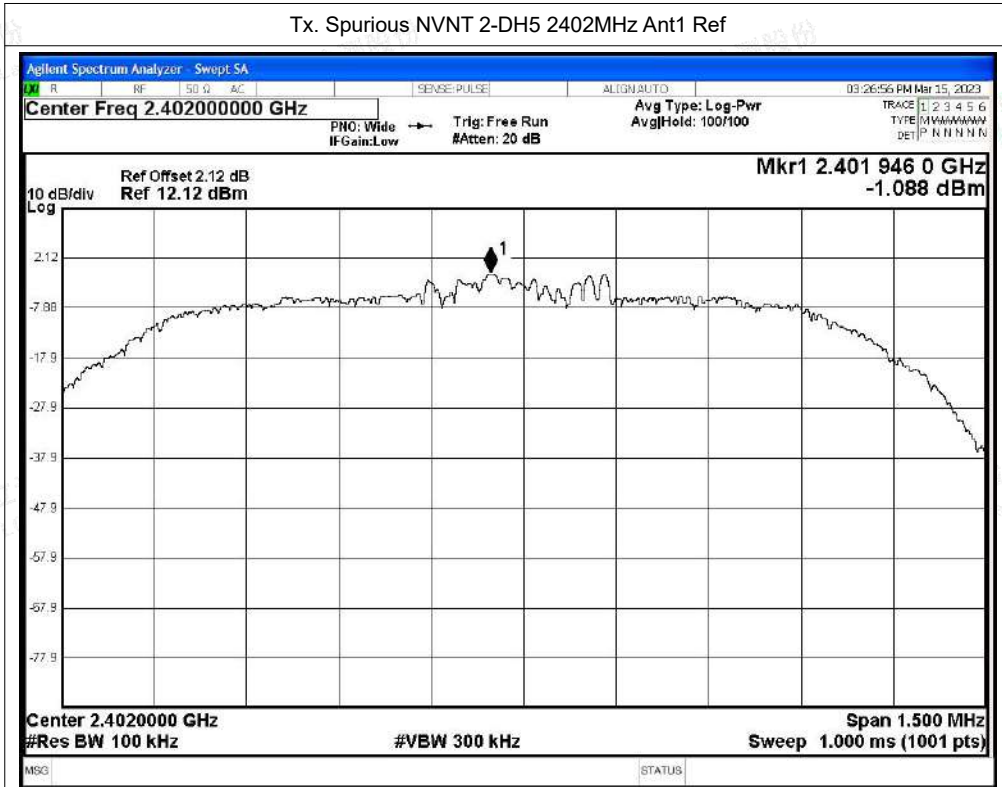
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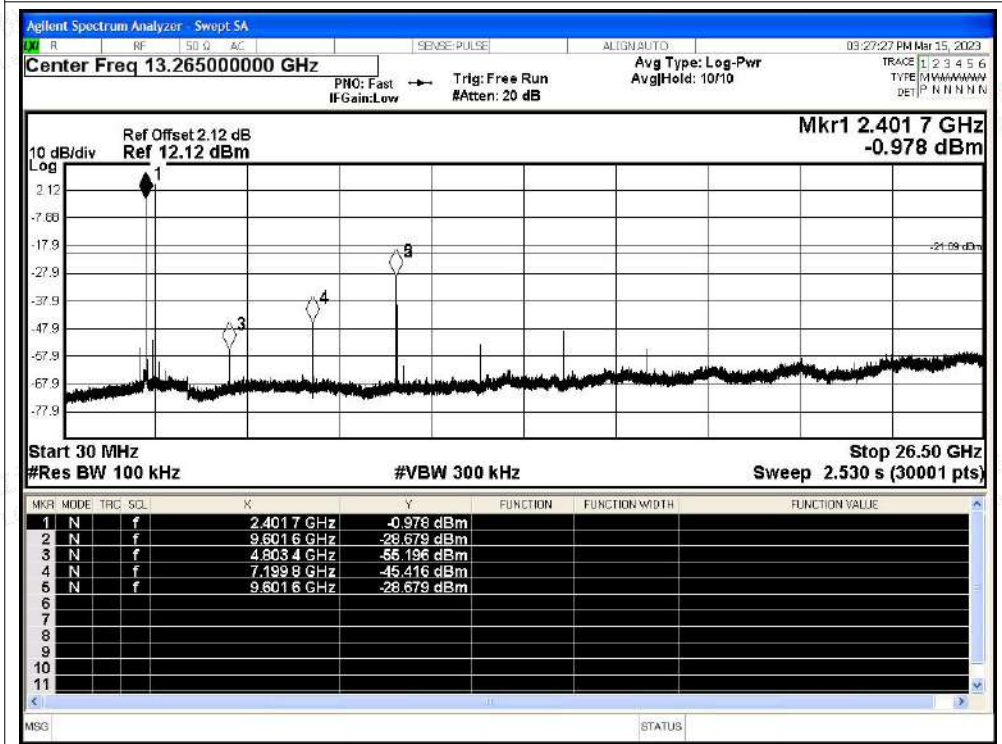
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



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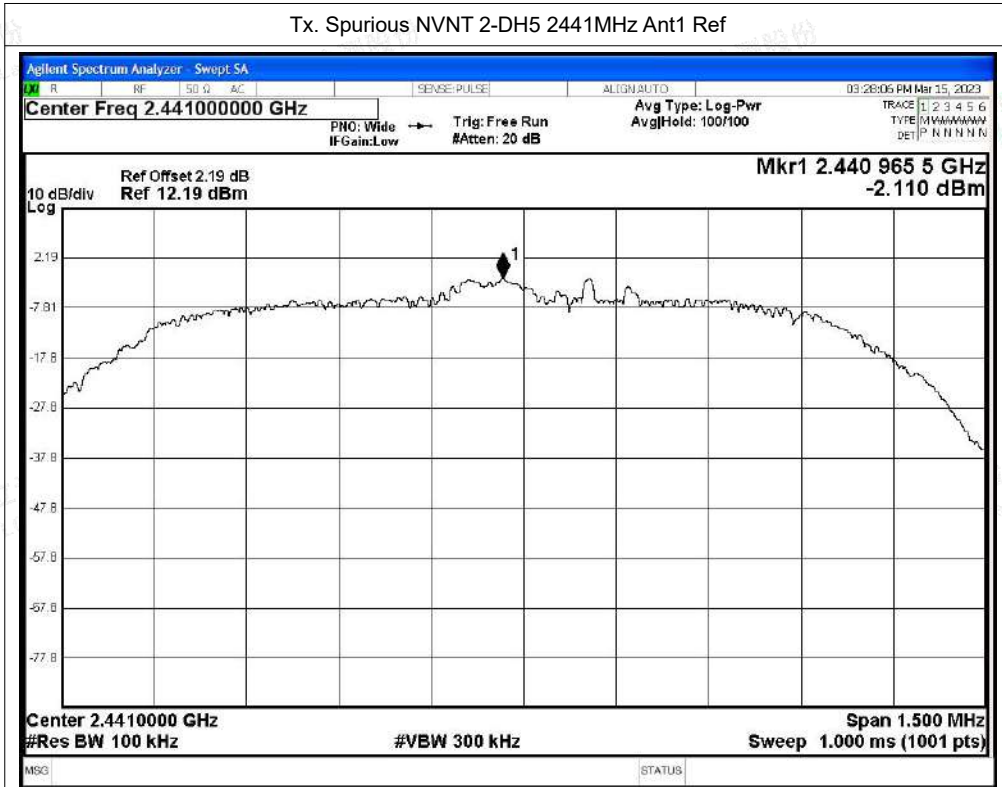
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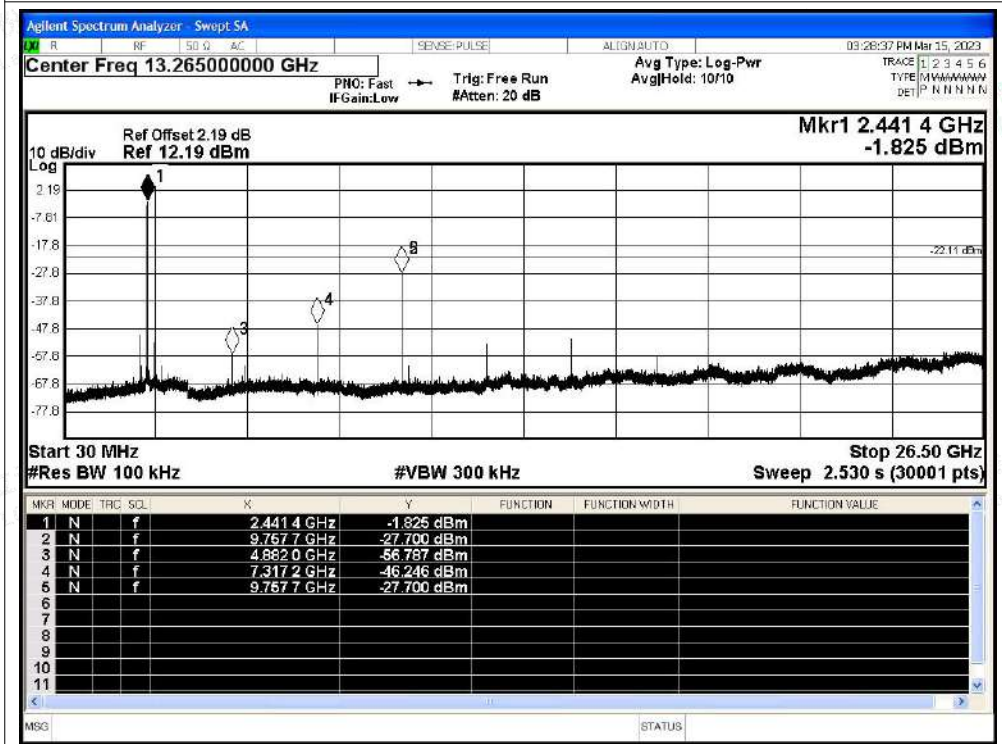
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



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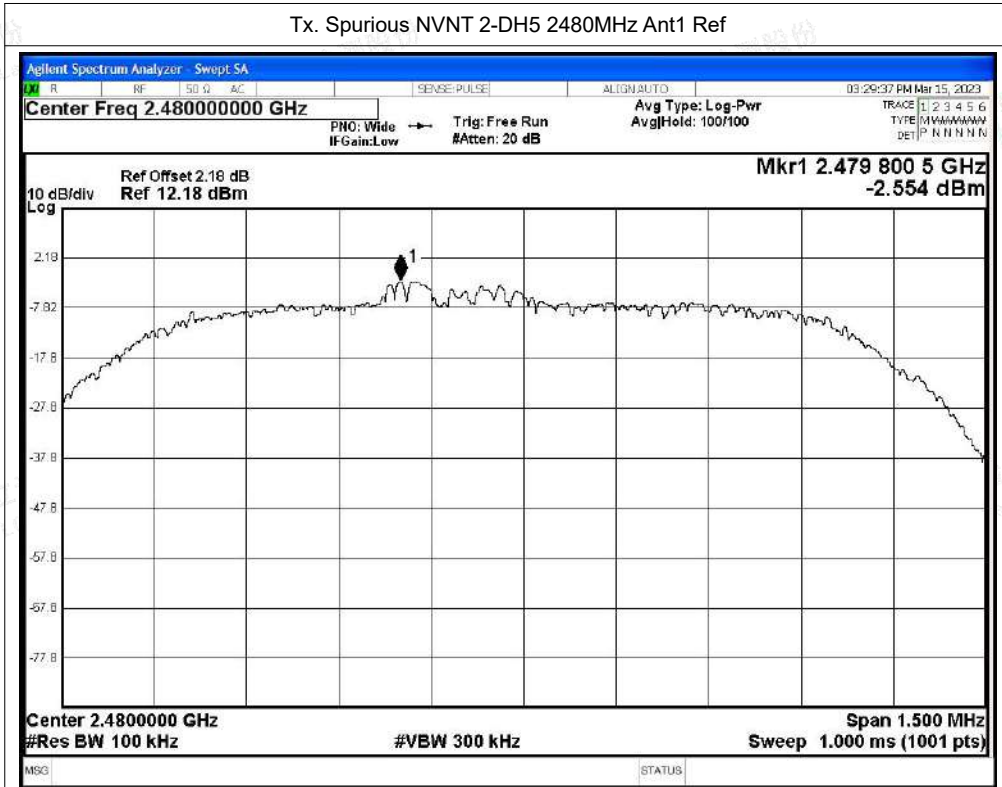
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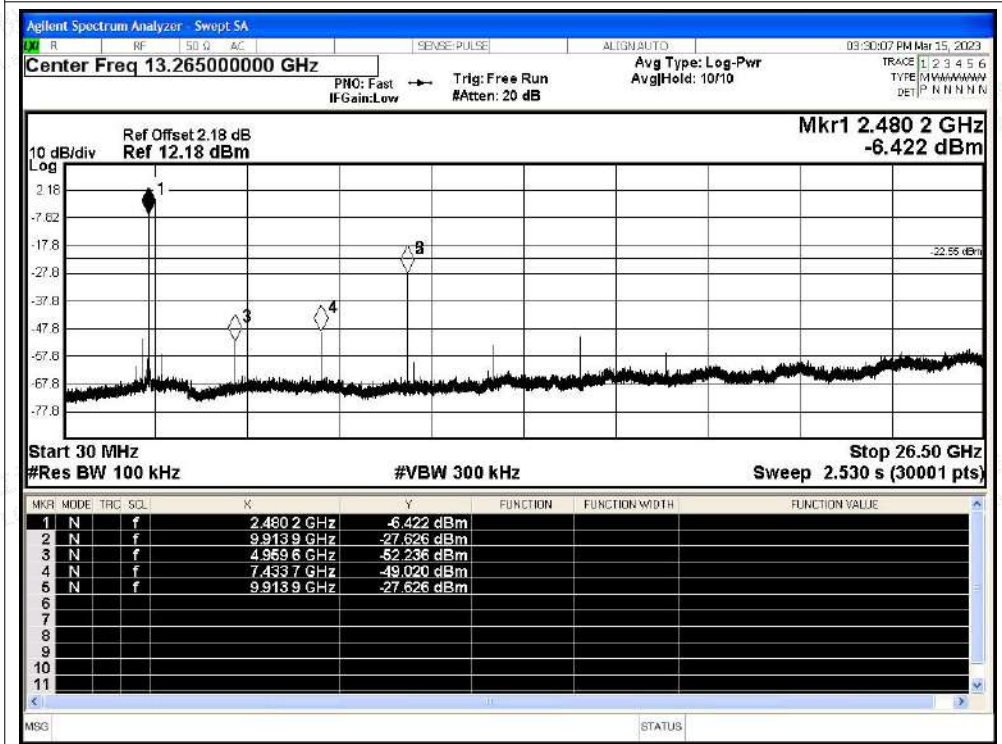
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-49.7	2	47.56	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.48	2	36.78	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2377.392	-46.96	2	50.3	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2365.104	-59.41	2	37.85	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.86	2	47.4	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-59.85	2	37.41	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.59	2	47.67	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.53	2	37.73	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2494	-46.1	2	51.16	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2498.728	-59.32	2	37.94	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.15	2	47.11	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.5	2	37.76	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.11	2	45.15	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.39	2	36.87	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2363.28	-46.24	2	51.02	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2364.624	-59.45	2	37.81	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.39	2	45.87	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-59.96	2	37.3	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.18	2	47.08	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.54	2	37.72	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2491.72	-46.79	2	50.47	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.376	-59.29	2	37.97	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.74	2	48.52	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.43	2	37.83	Average	54	Pass



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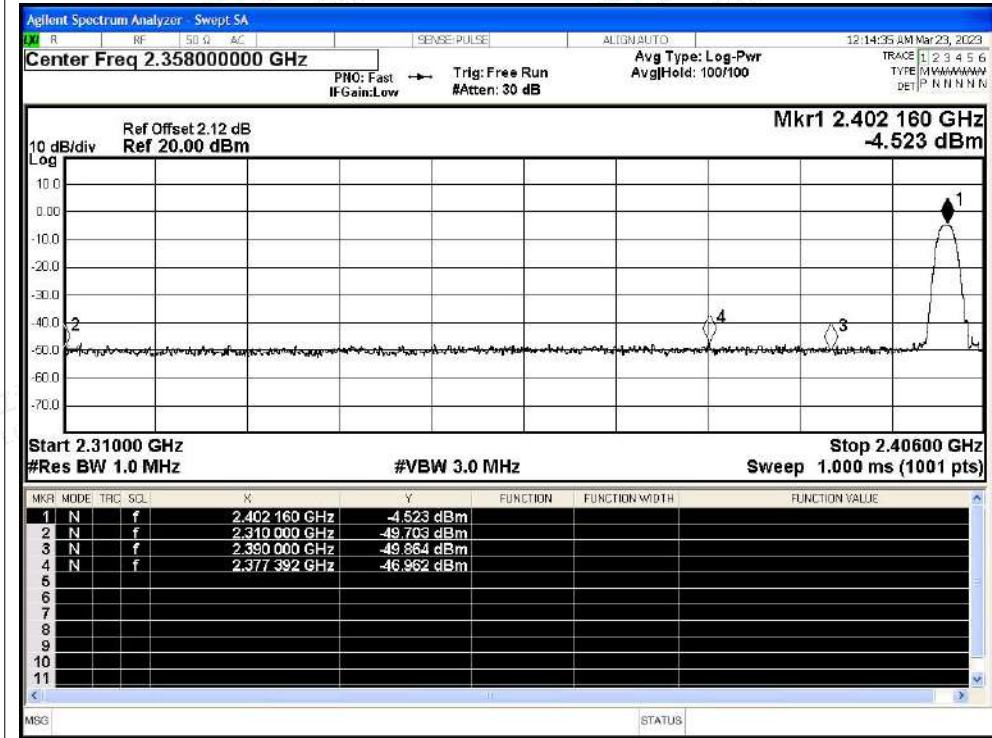
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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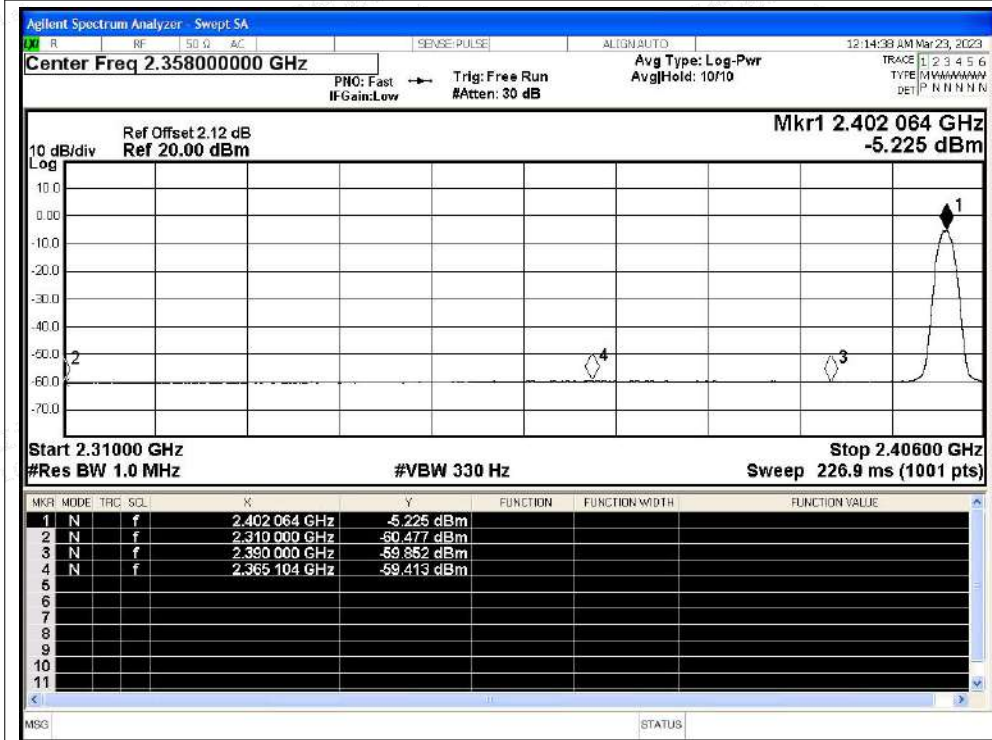


Test Graphs

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



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

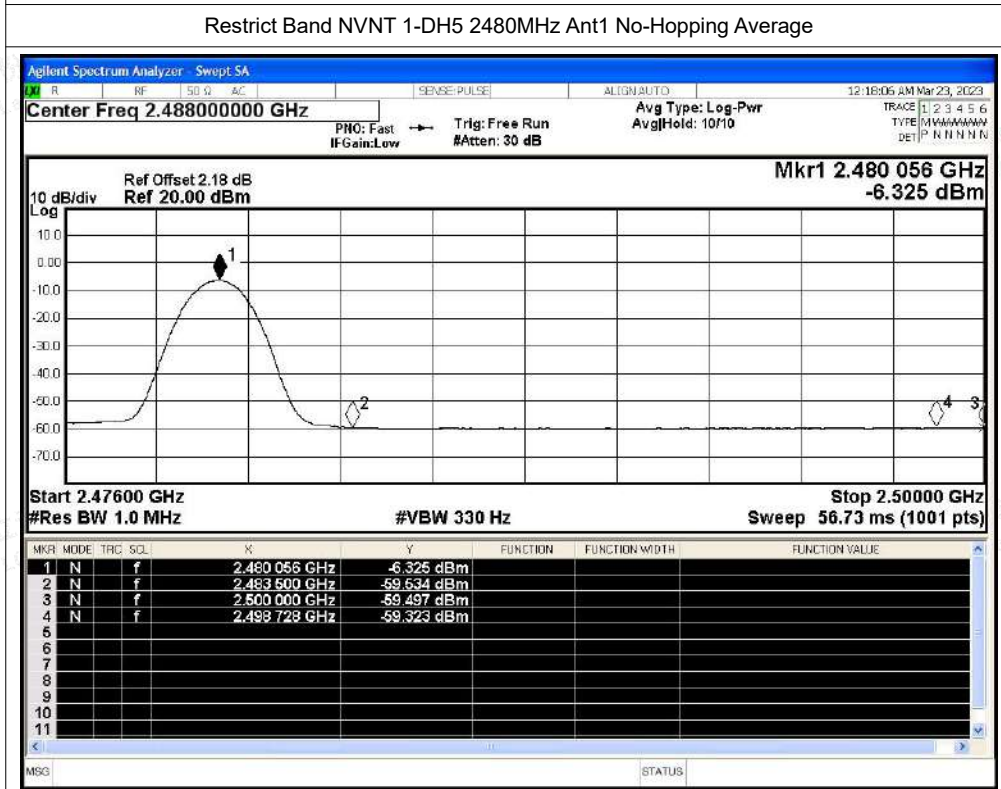
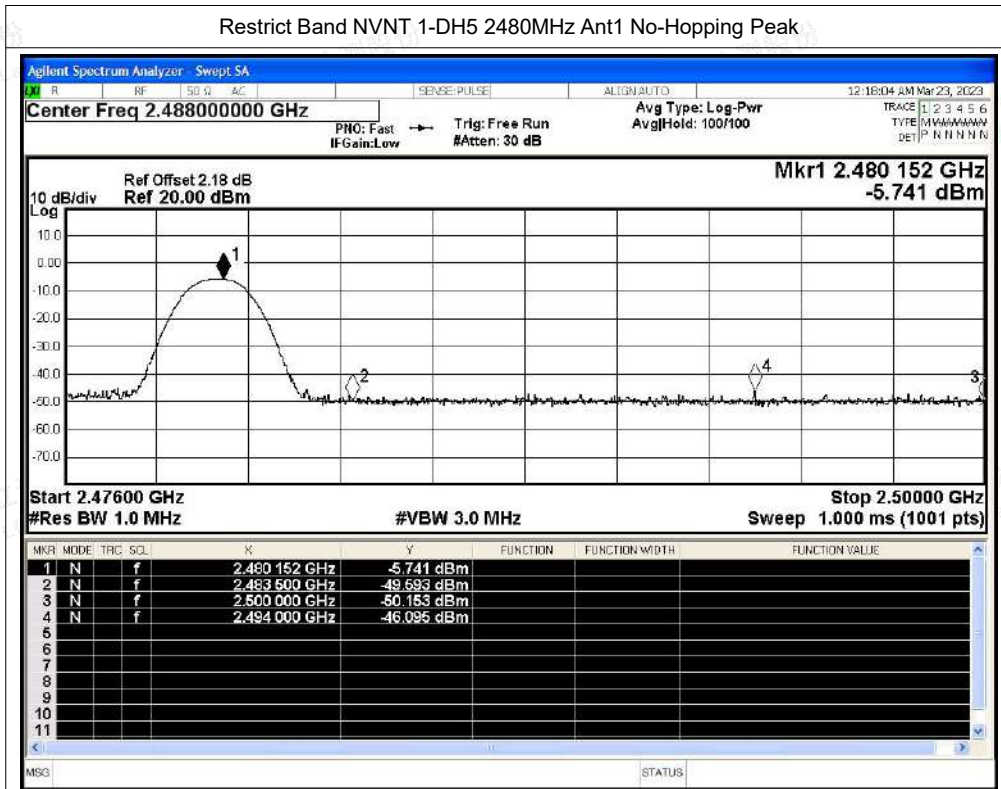


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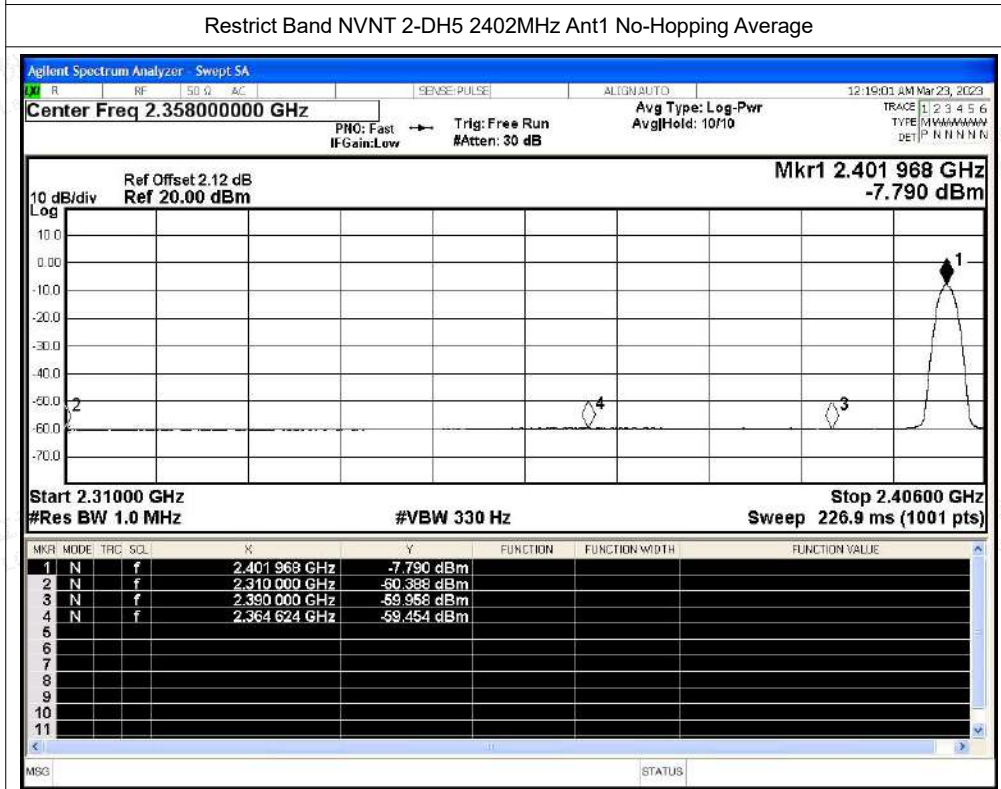
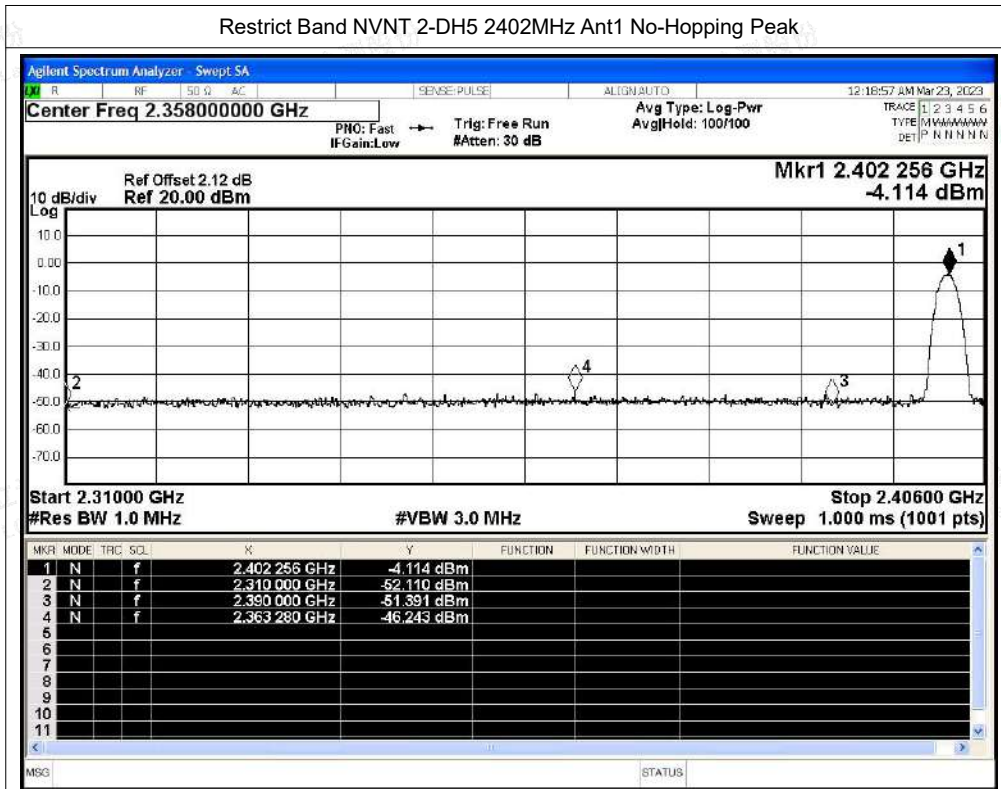


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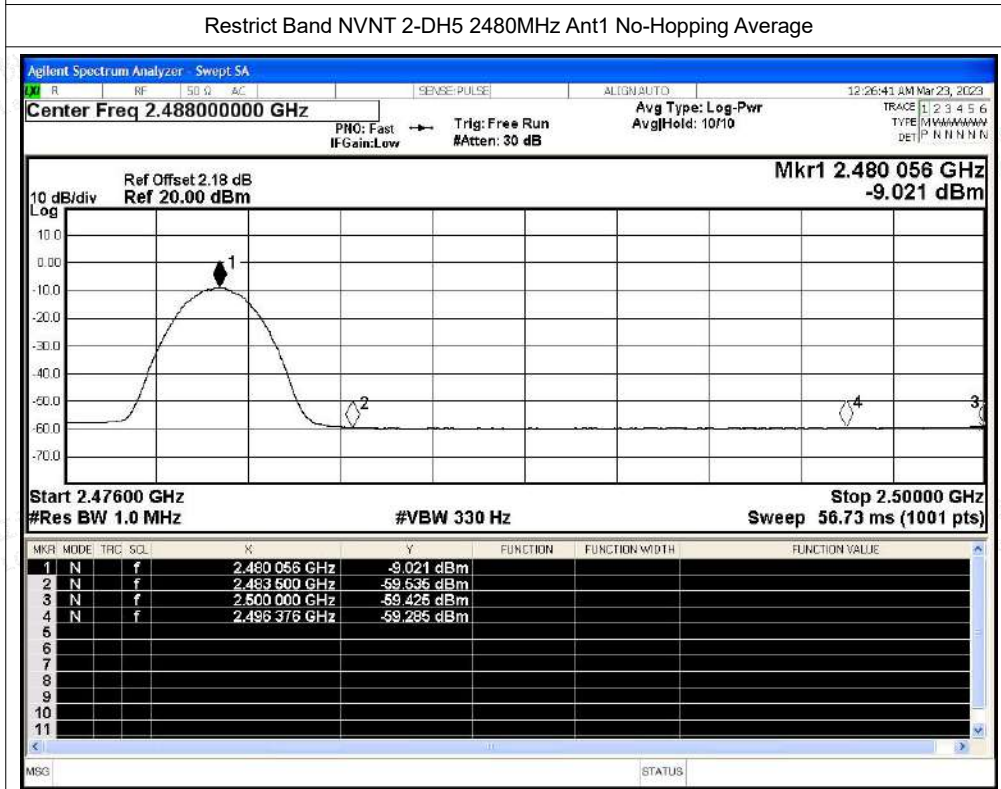
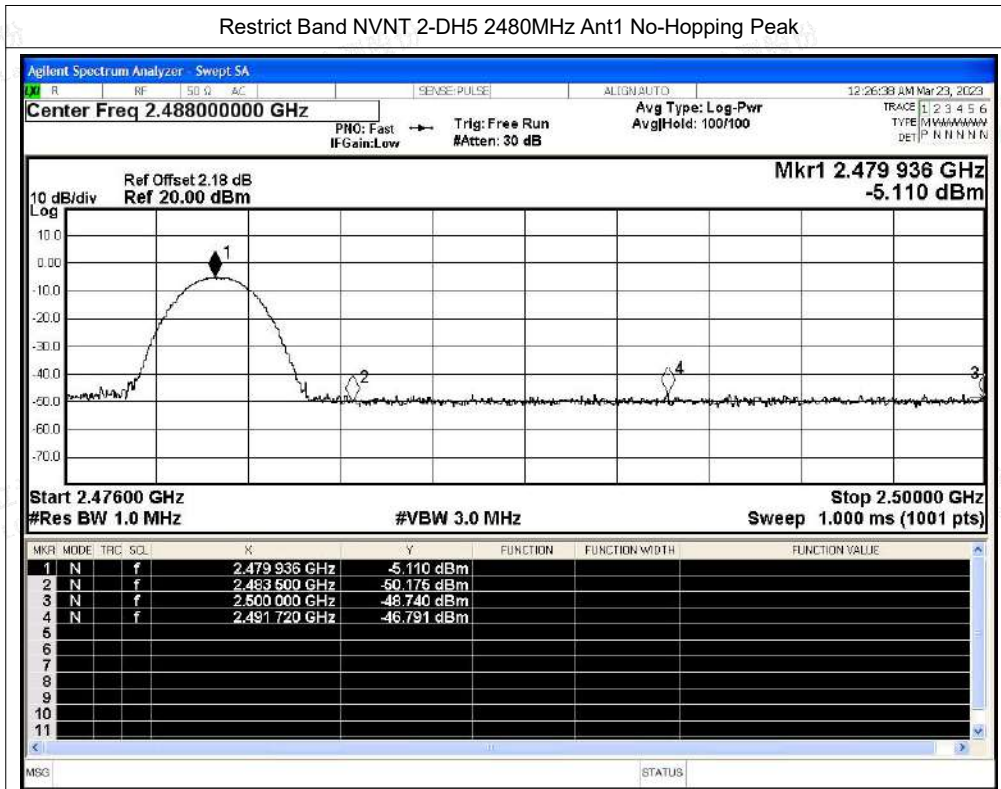


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