



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Karaoke Microphone

Test Model: KMKF02-2

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Nick Peng</i> Nick Peng
Supervised by:	<i>Li Huan</i> Li Huan





A.1 20dB Bandwidth

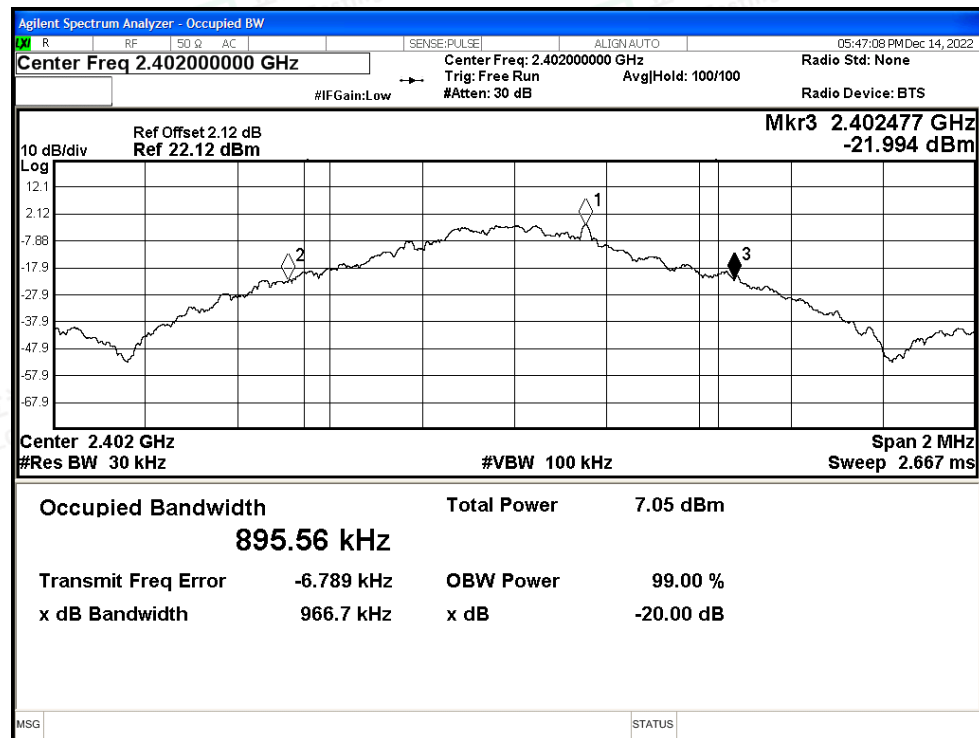
Condition	Mode	Frequency (MHz)	Antenna	20 dB Bandwidth (MHz)	Limit 20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.967	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.018	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.988	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.319	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.306	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.29	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.298	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.29	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.299	N/A	Pass



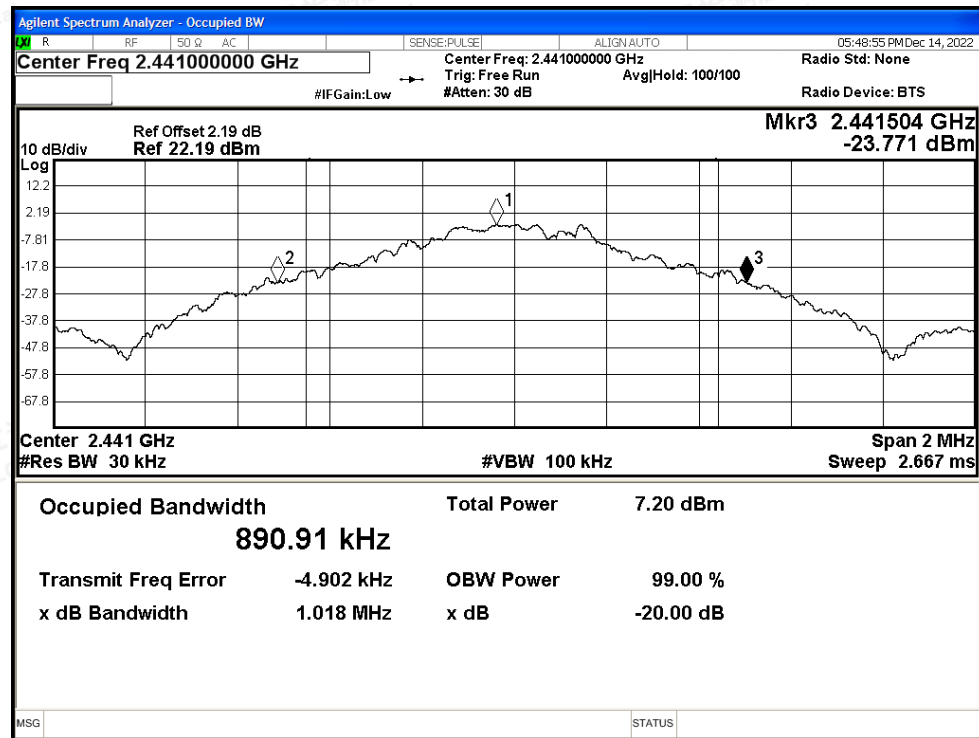


Test Graphs

20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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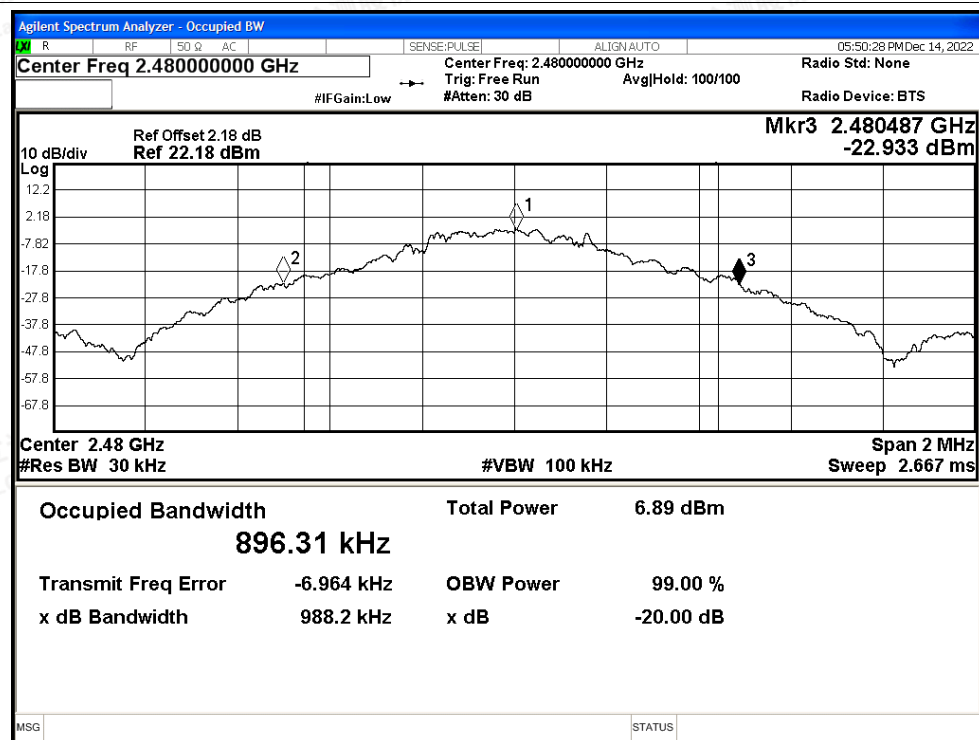
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

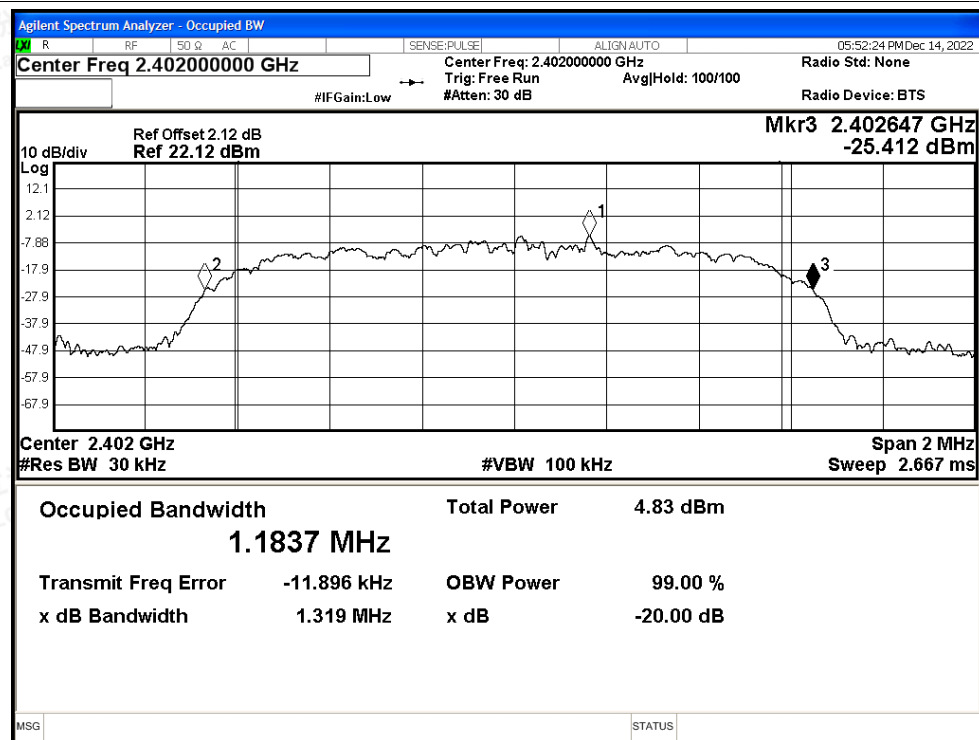
Scan code to check authenticity



20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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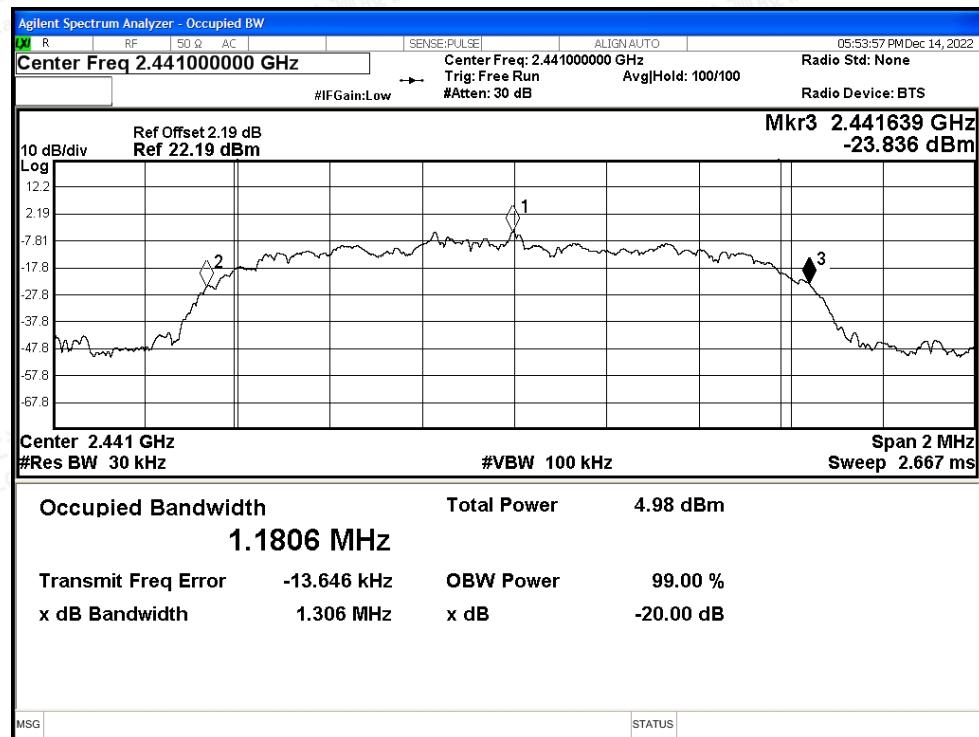
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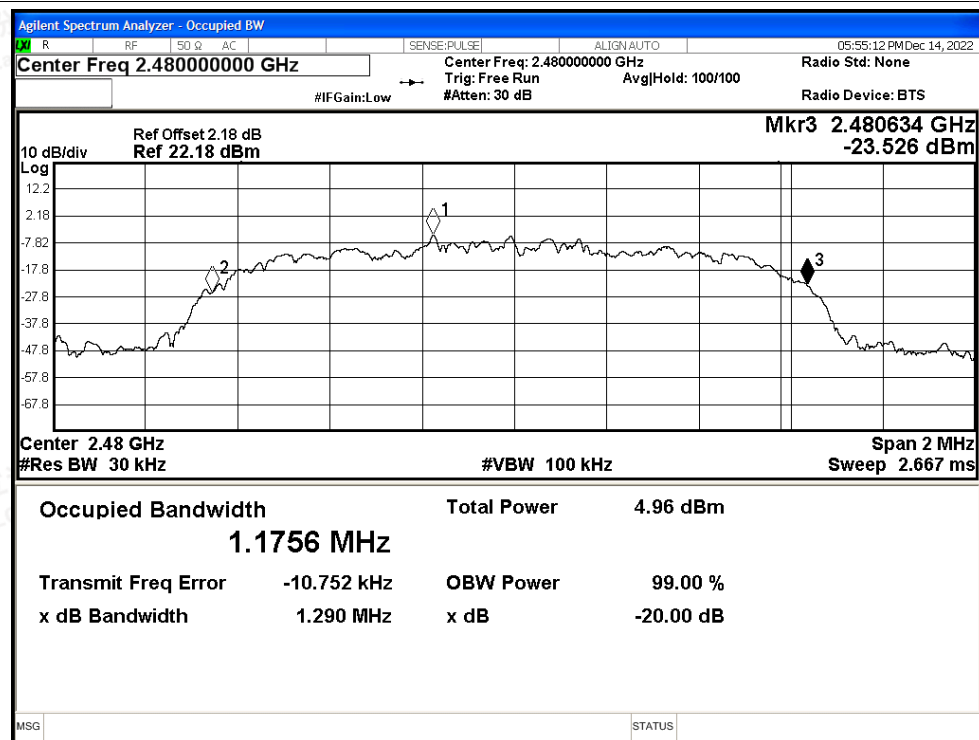
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20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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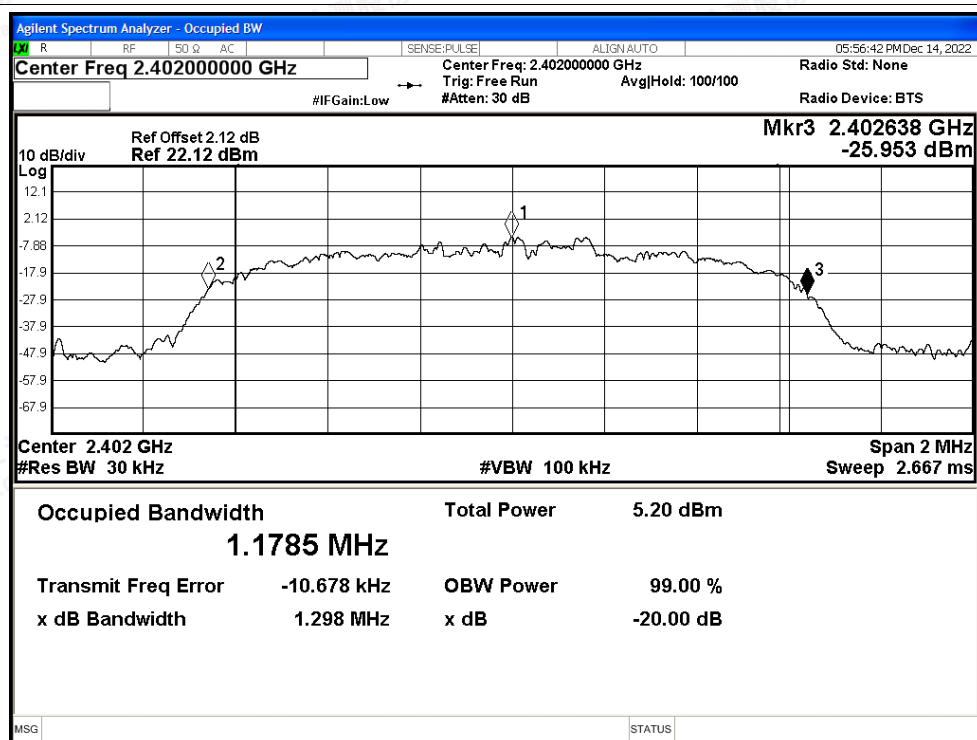
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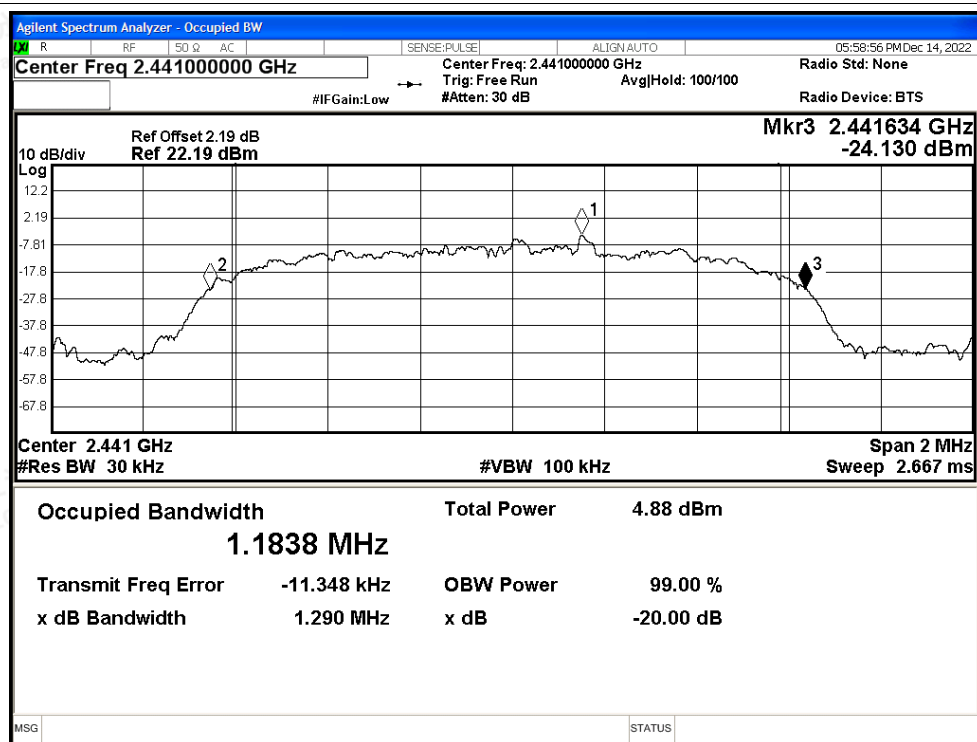
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20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

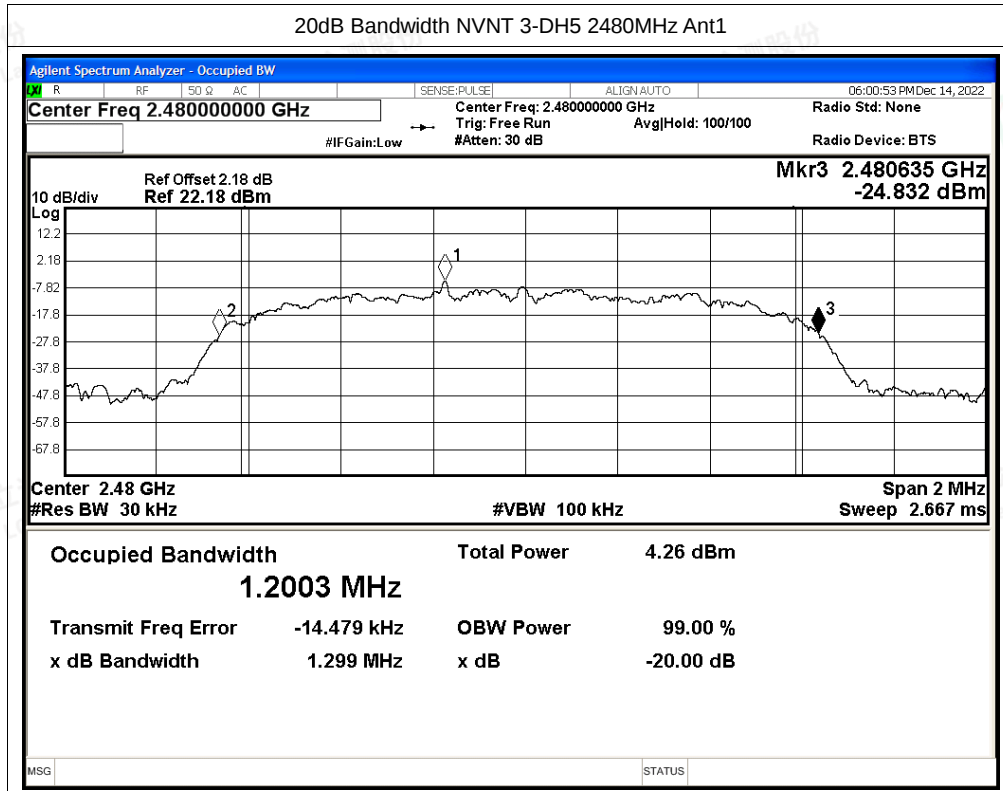


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A.2 Maximum Conducted Output Power

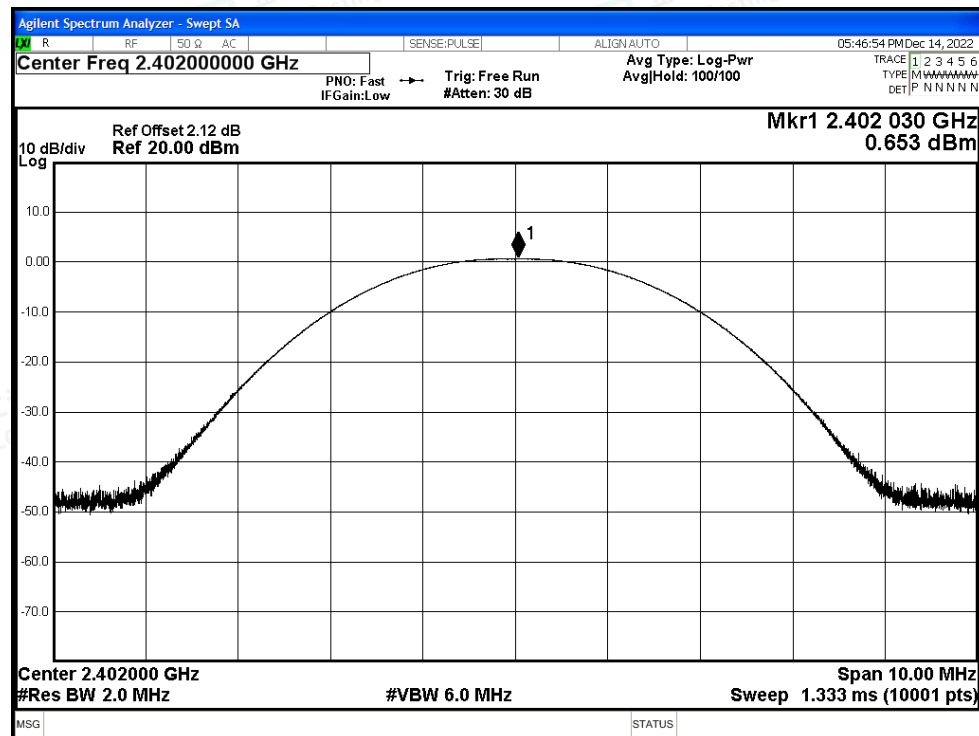
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.65	21	Pass
NVNT	1-DH5	2441	Ant1	0.78	21	Pass
NVNT	1-DH5	2480	Ant1	0.49	21	Pass
NVNT	2-DH5	2402	Ant1	0.38	21	Pass
NVNT	2-DH5	2441	Ant1	0.52	21	Pass
NVNT	2-DH5	2480	Ant1	0.28	21	Pass
NVNT	3-DH5	2402	Ant1	0.47	21	Pass
NVNT	3-DH5	2441	Ant1	0.59	21	Pass
NVNT	3-DH5	2480	Ant1	0.37	21	Pass



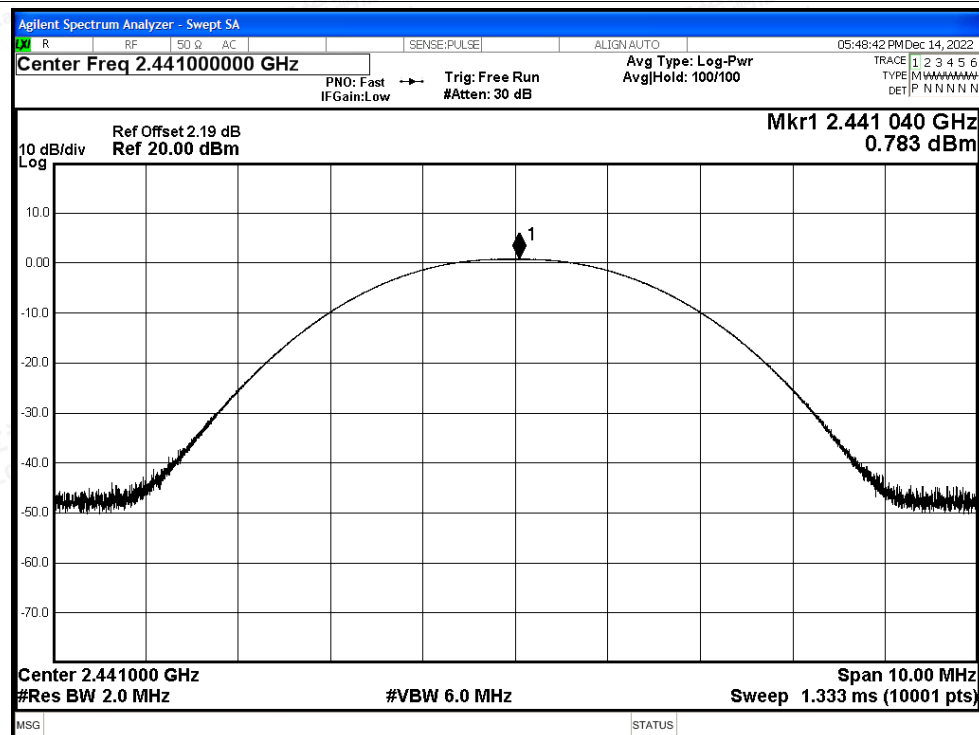


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

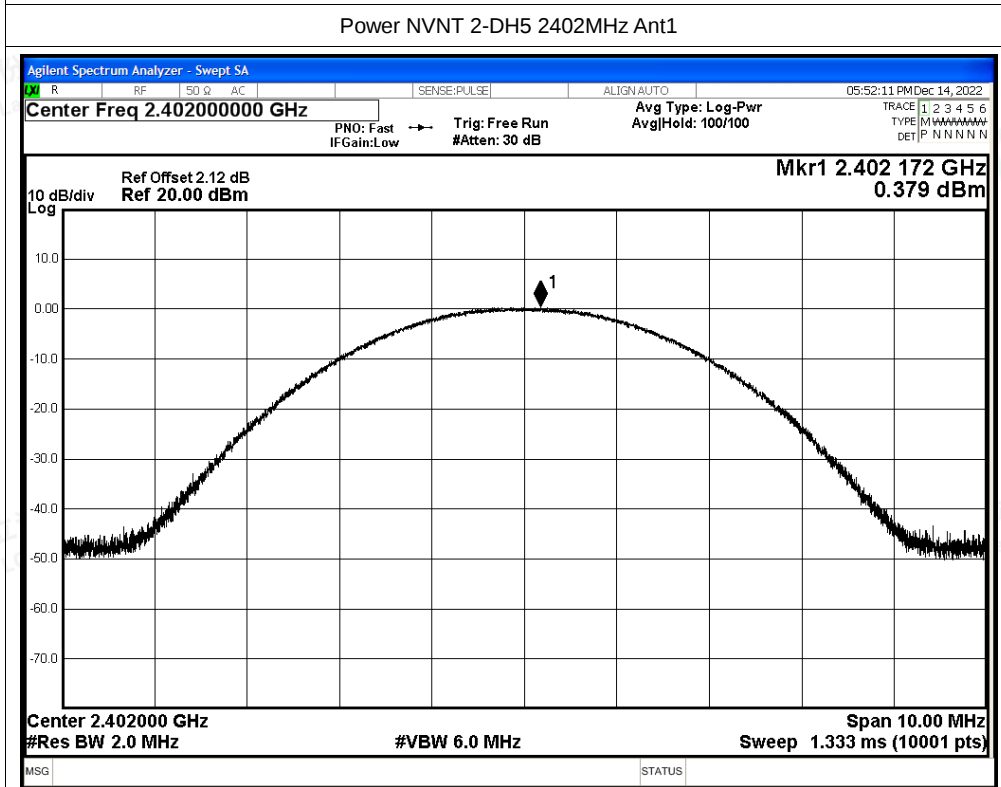
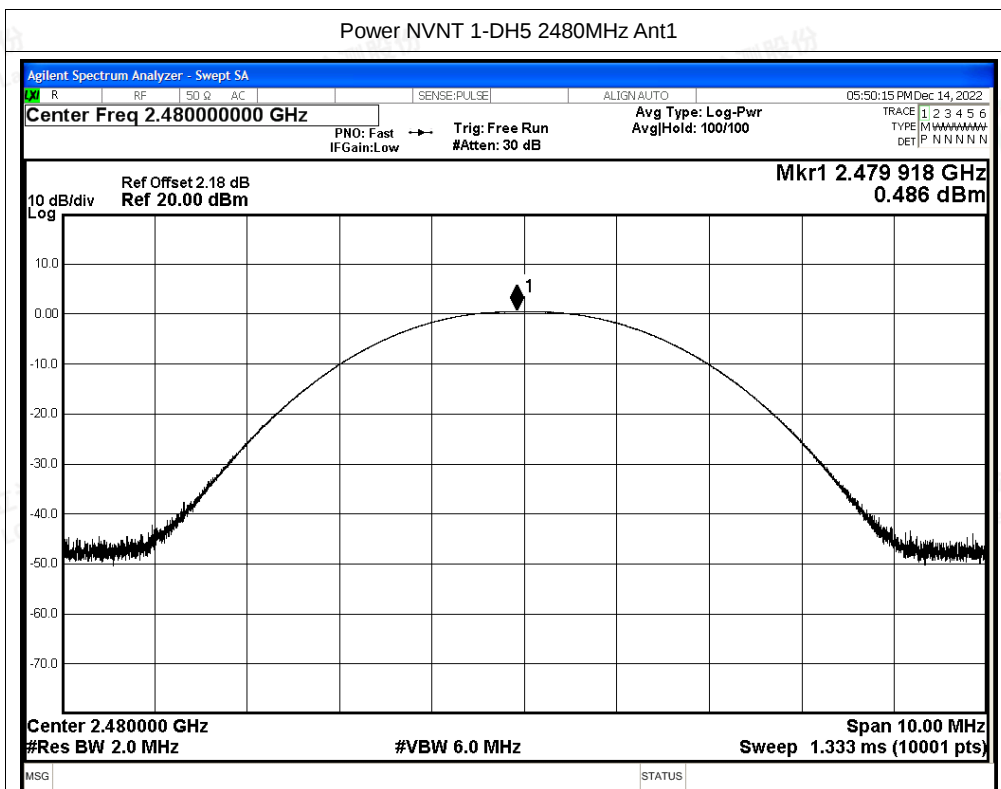


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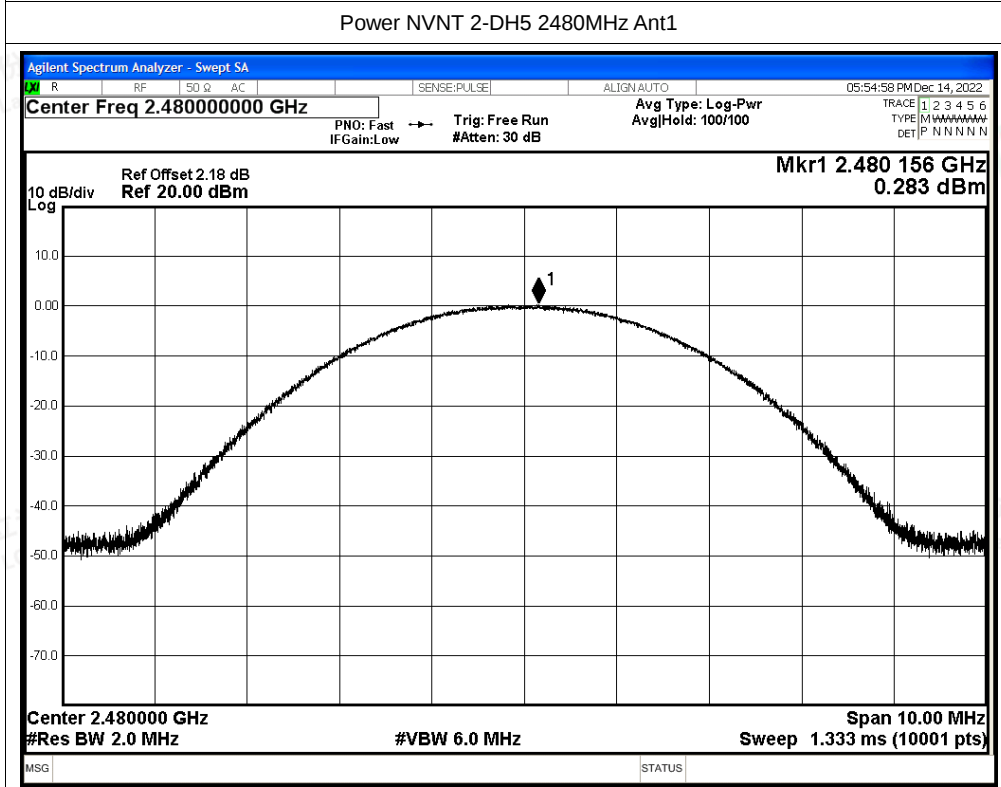
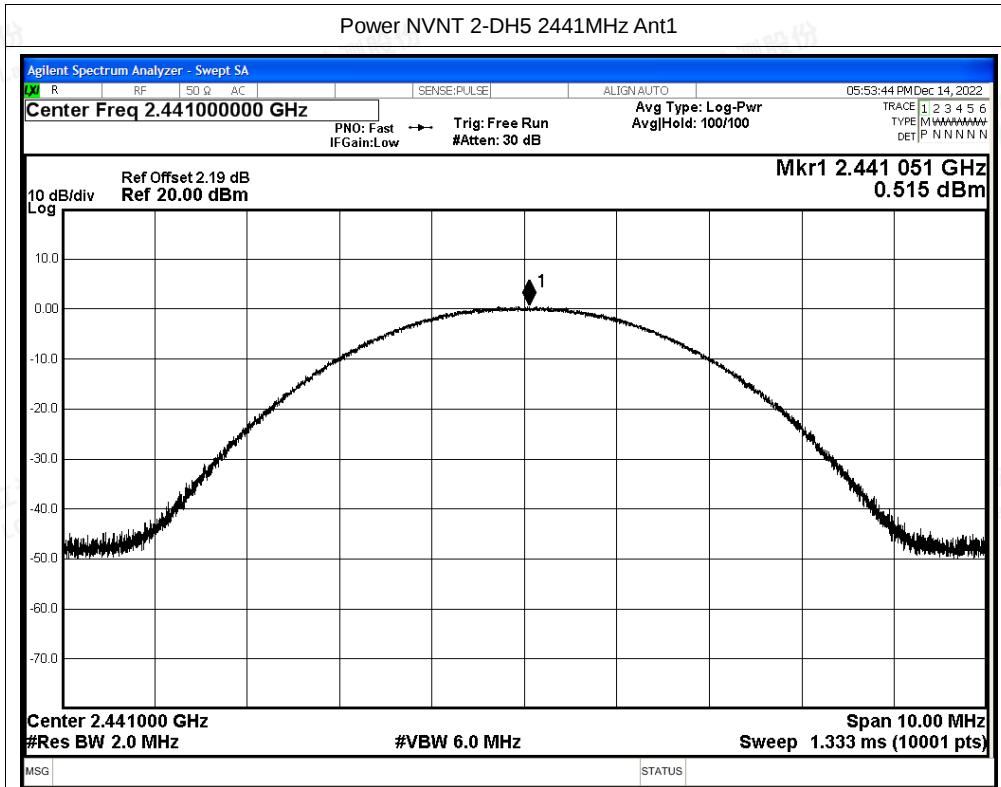


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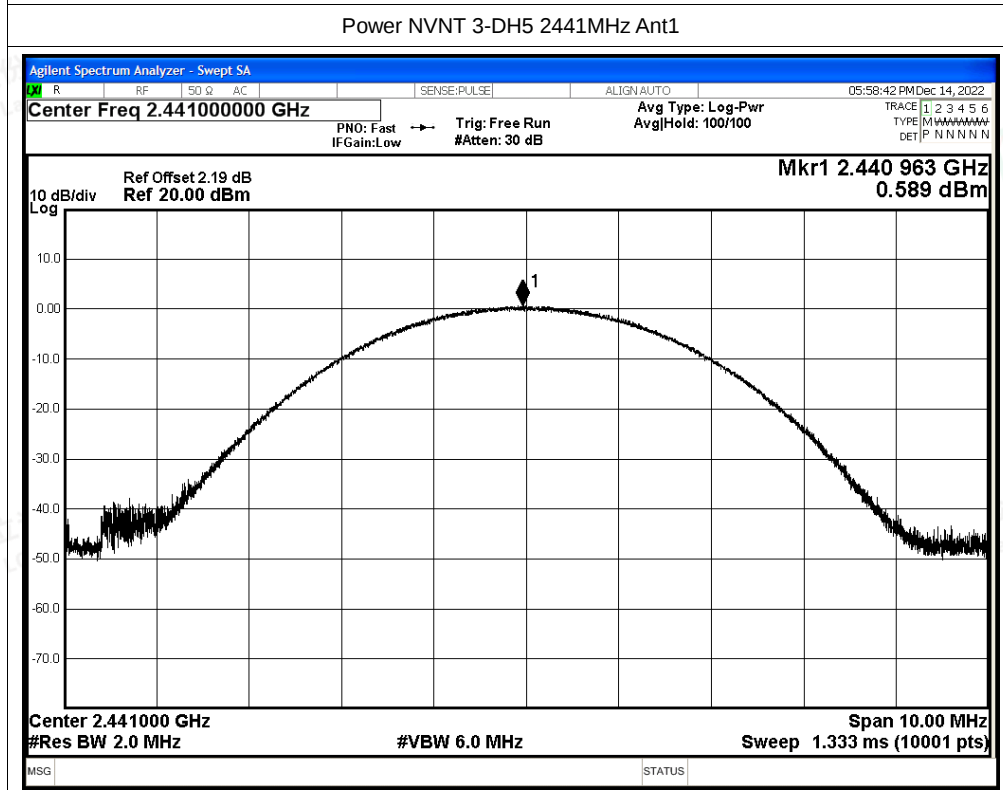
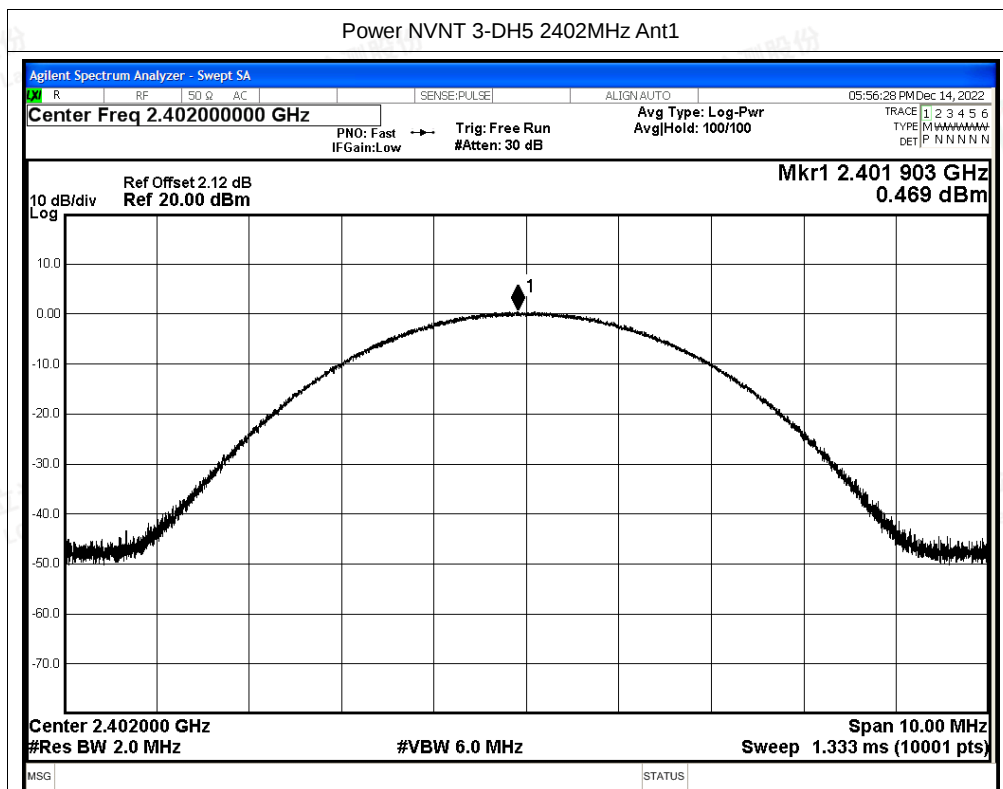


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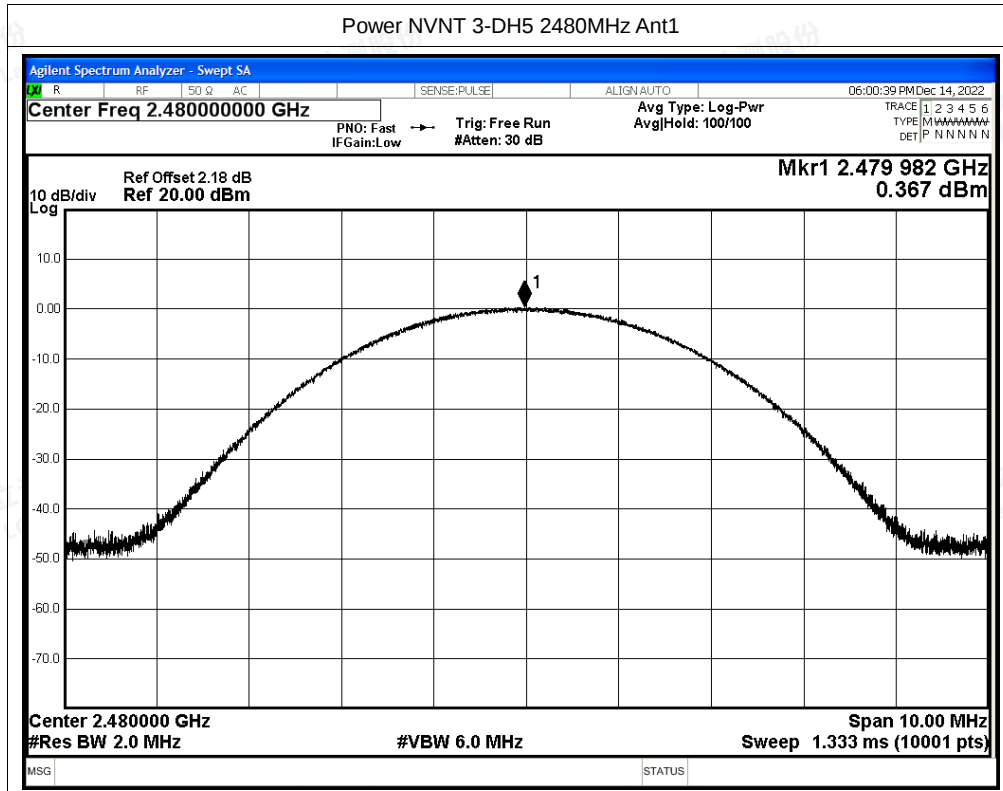


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A.3 Carrier Frequencies Separation

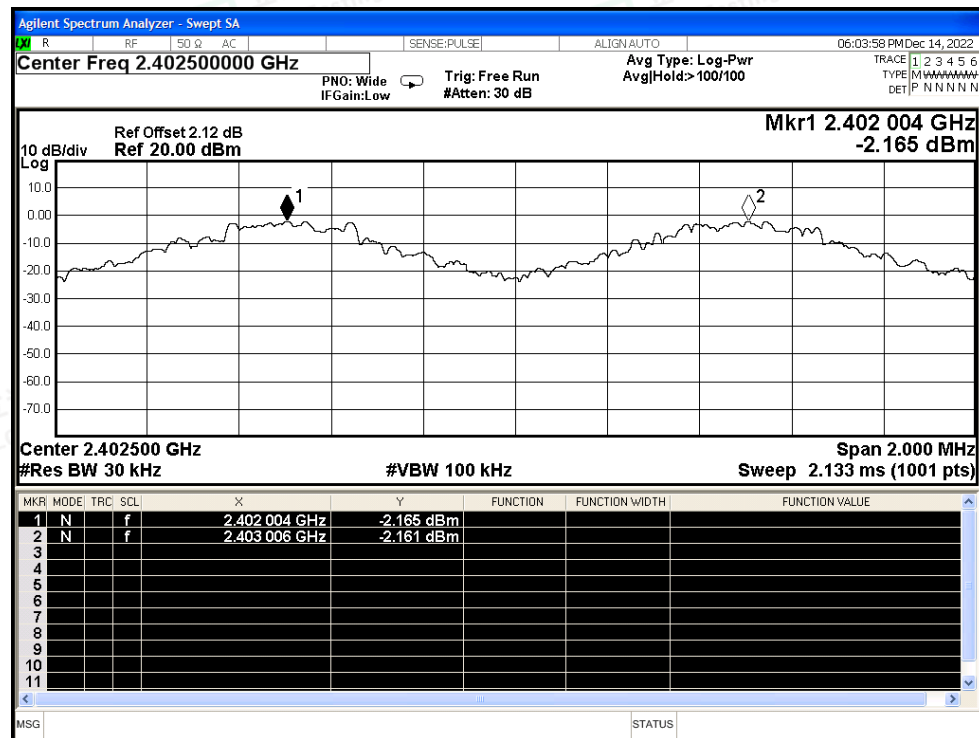
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.004	2403.006	1.002	0.679	Pass
NVNT	2-DH5	Ant1	2402.156	2403.15	0.994	0.879	Pass
NVNT	3-DH5	Ant1	2402.138	2403.148	1.01	0.866	Pass



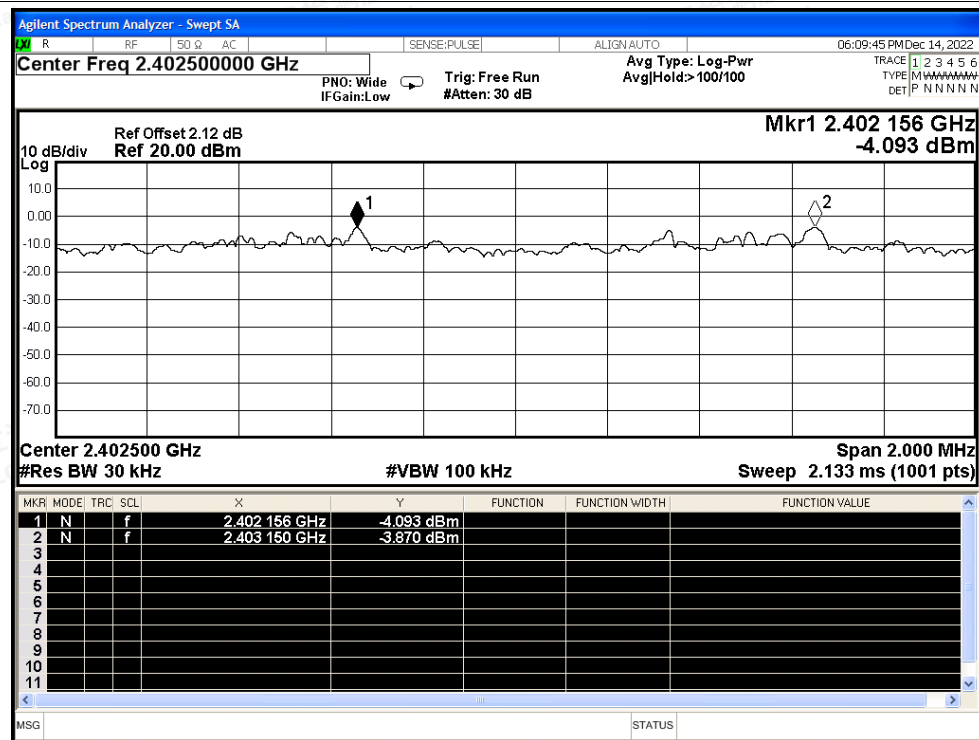


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

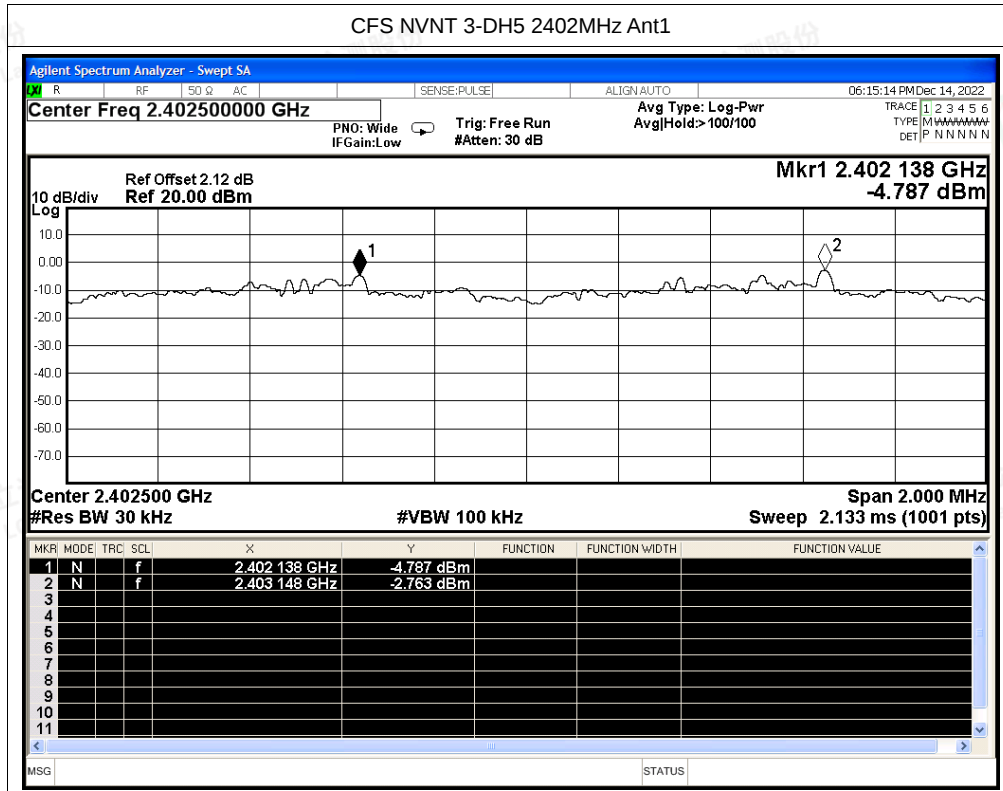


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A.4 Dwell Time

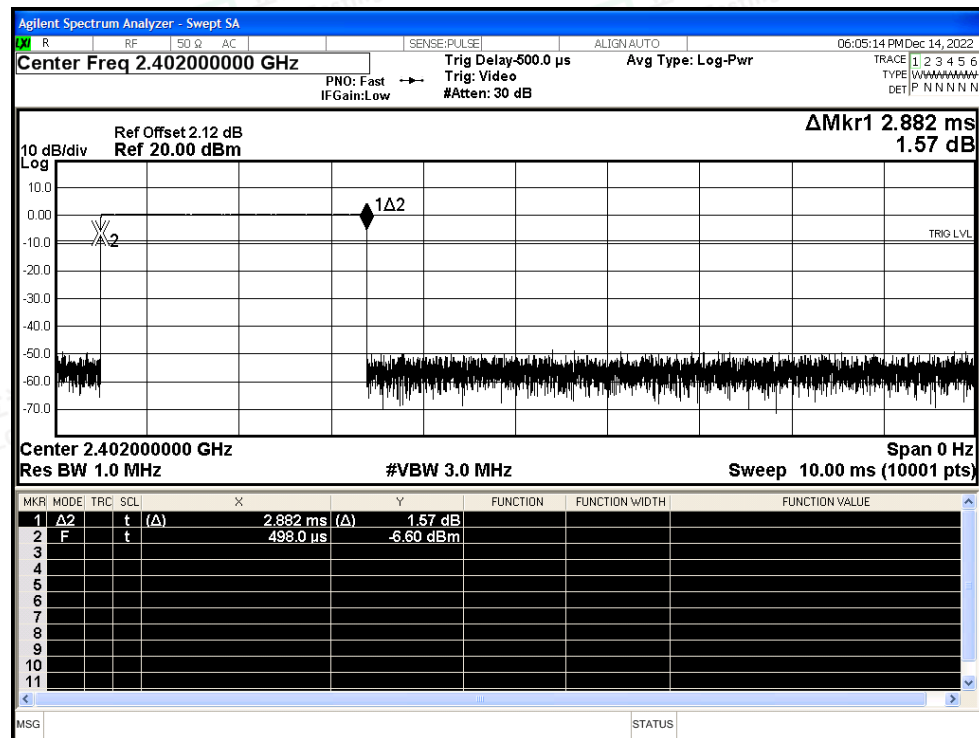
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	291.082	101	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	302.4	105	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	300.248	104	31600	400	Pass



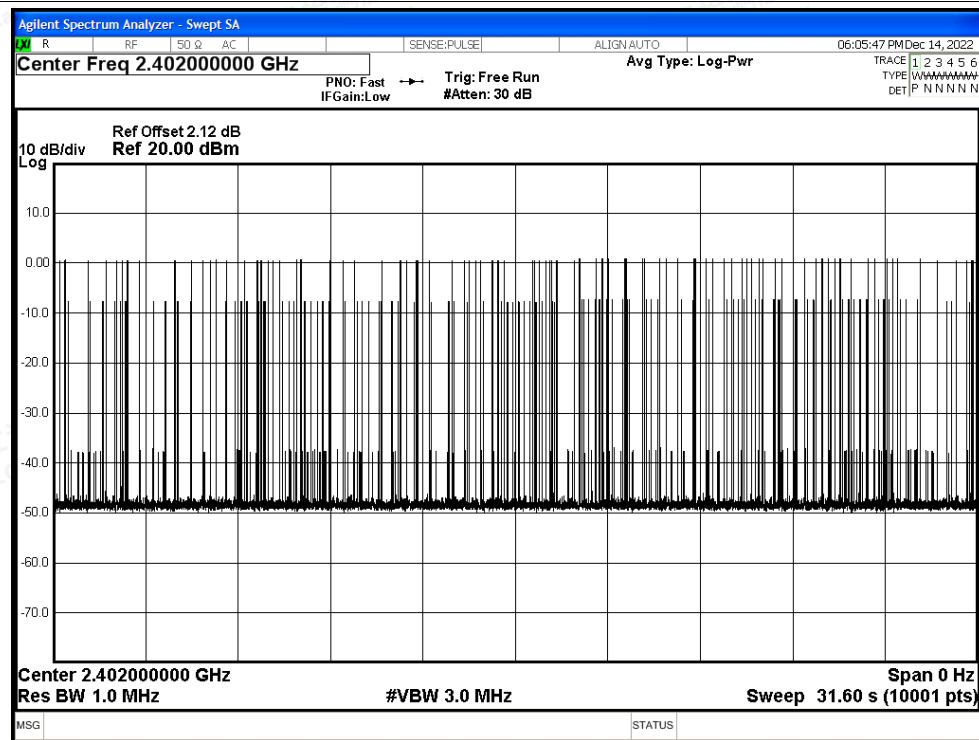


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

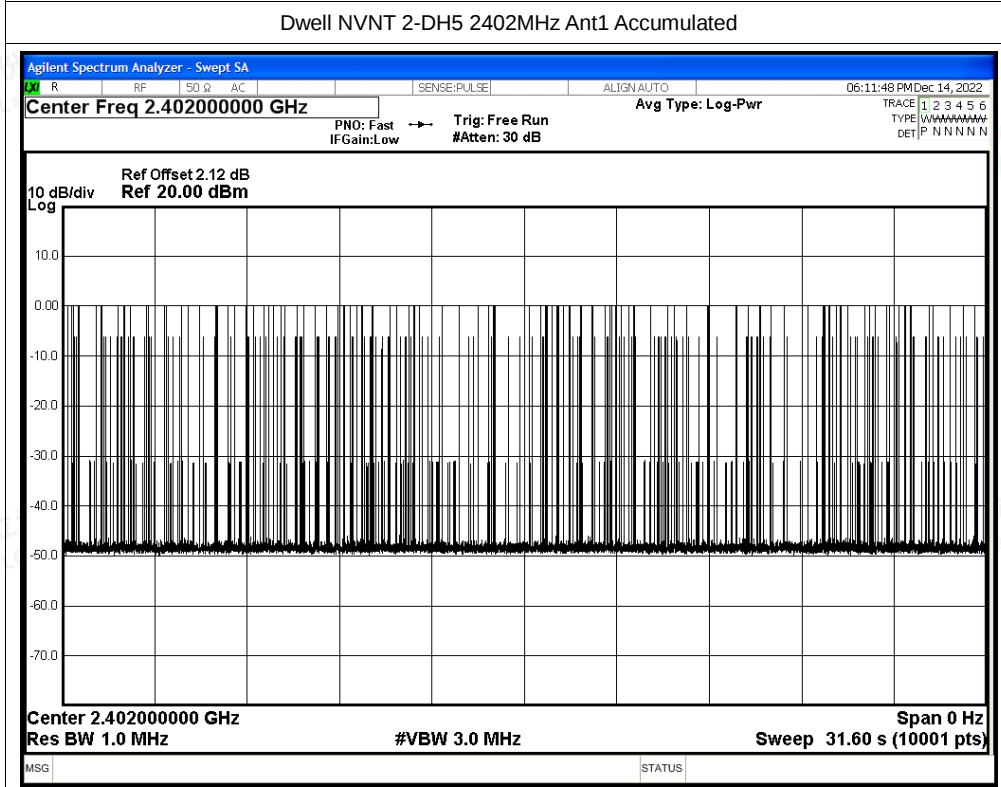
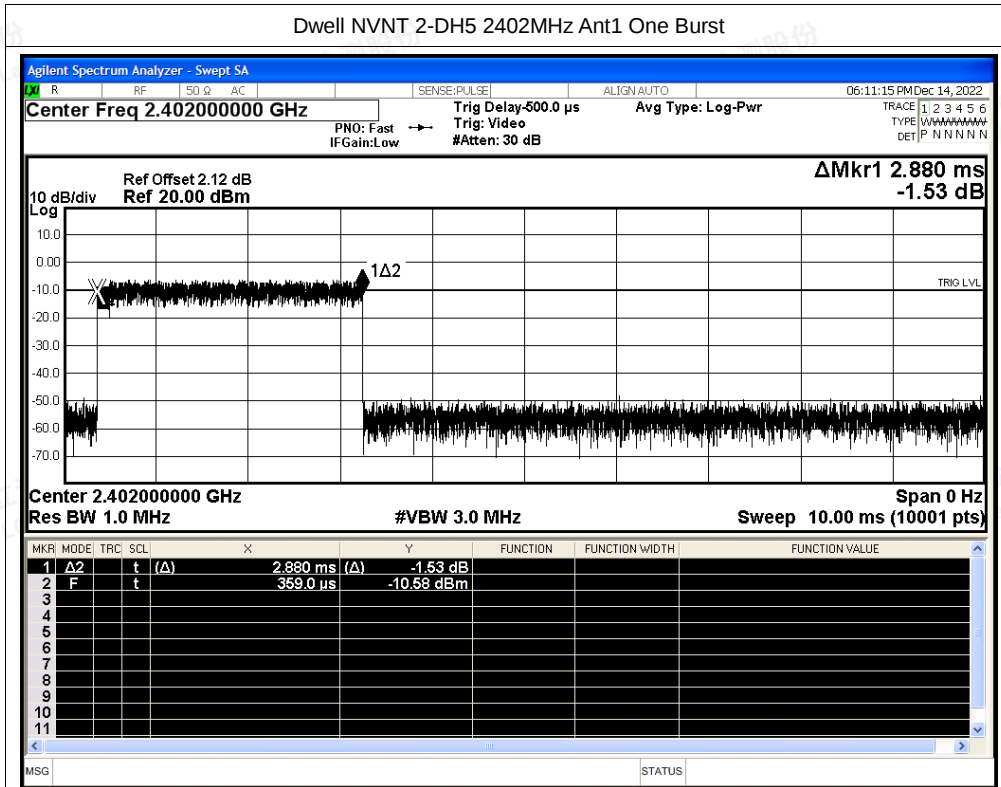


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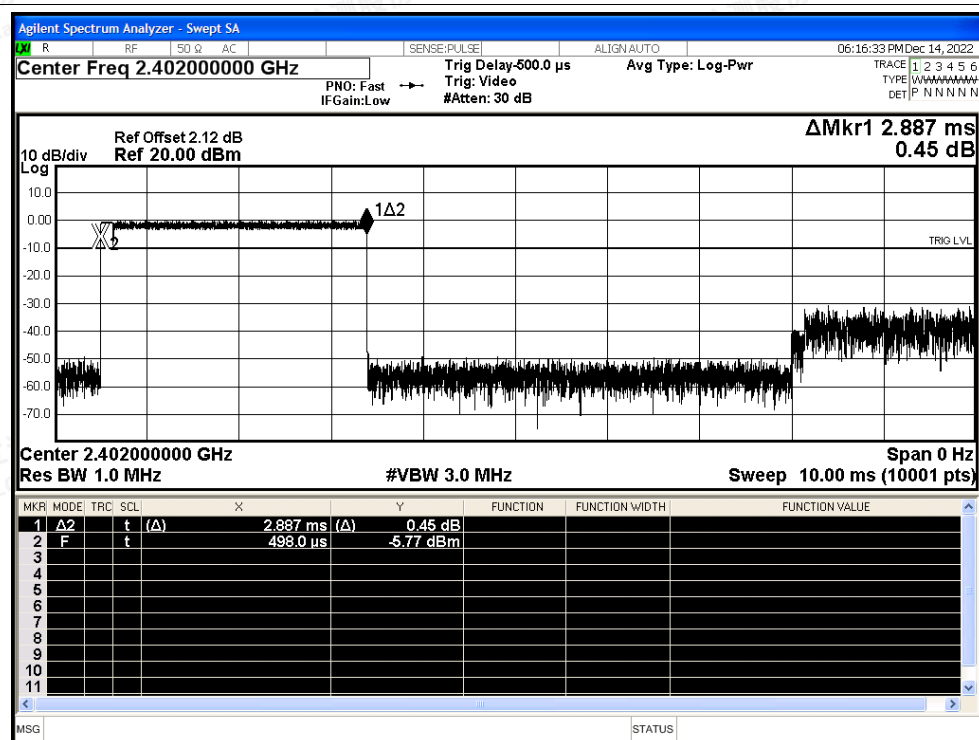
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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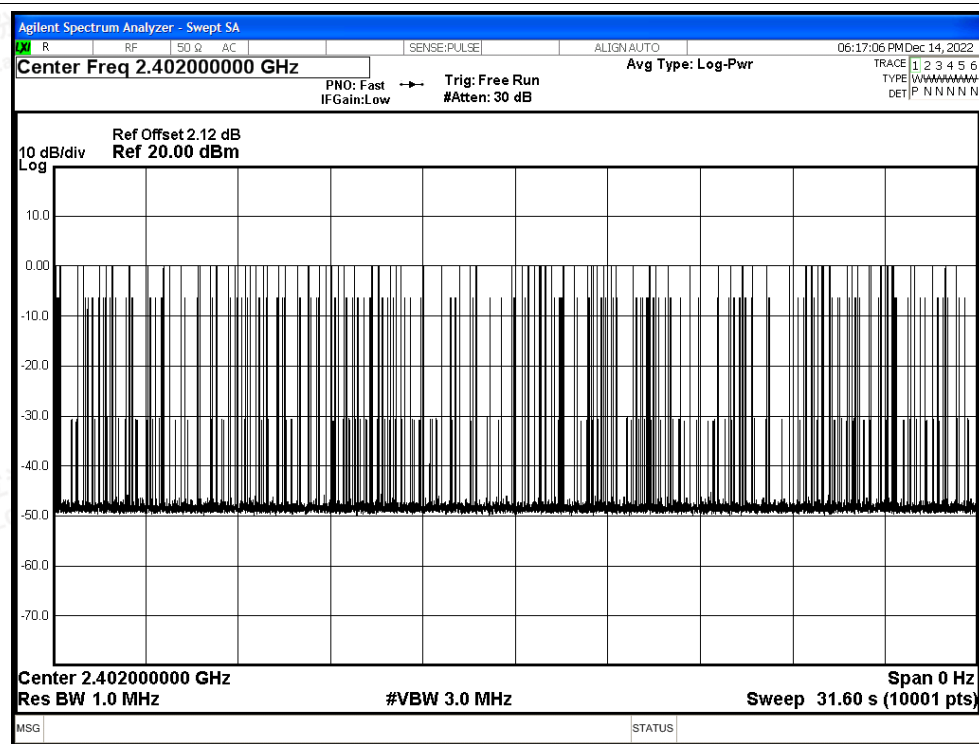
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

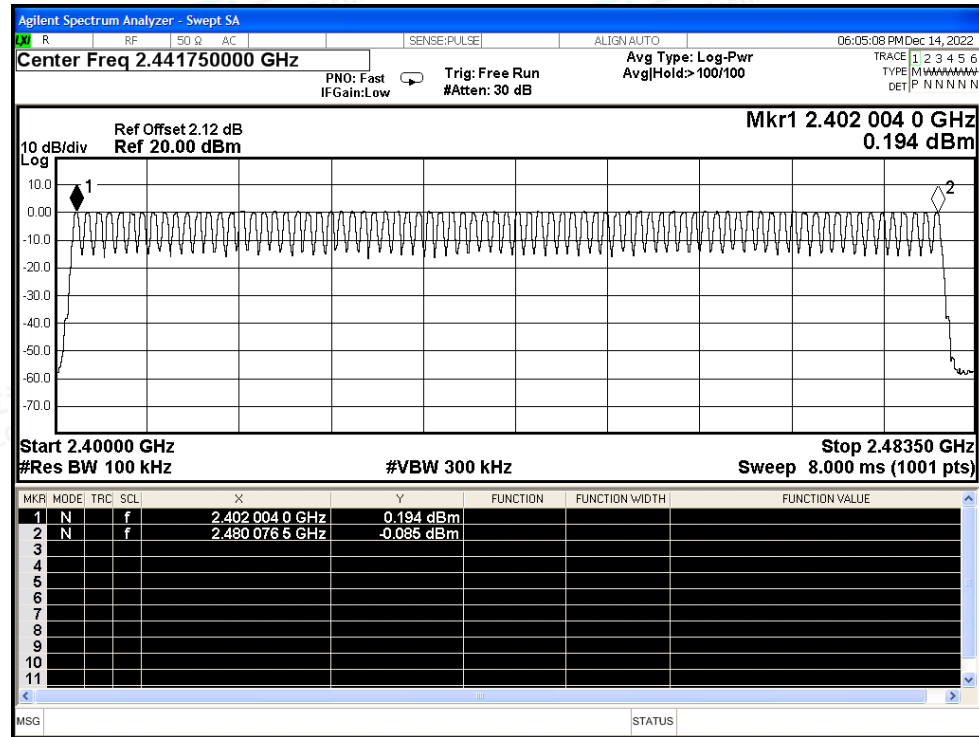
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



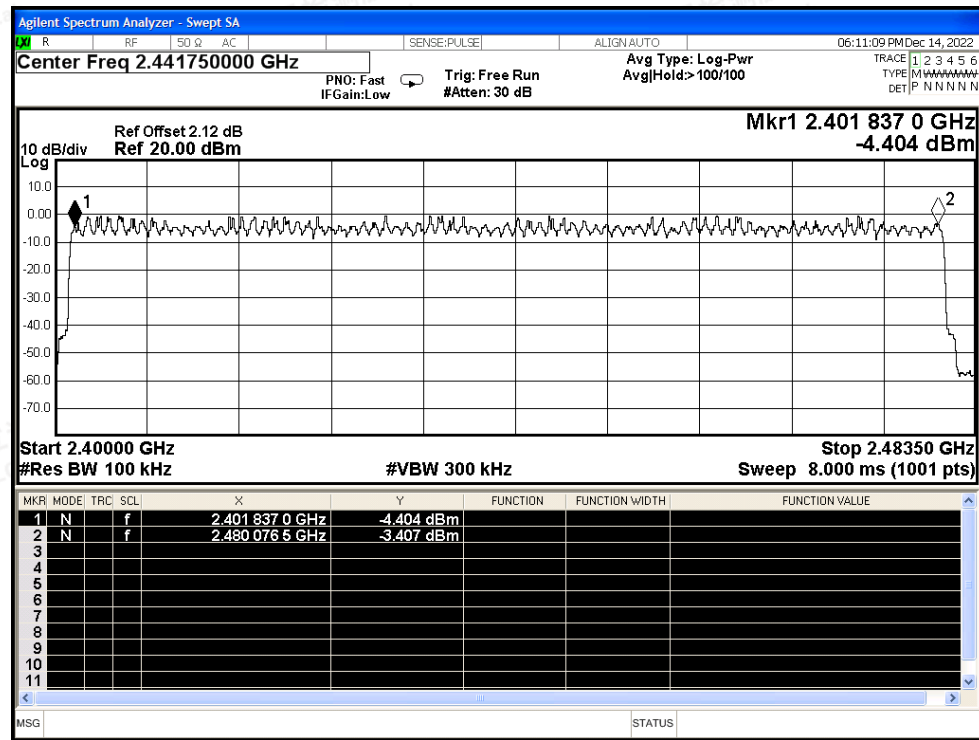


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

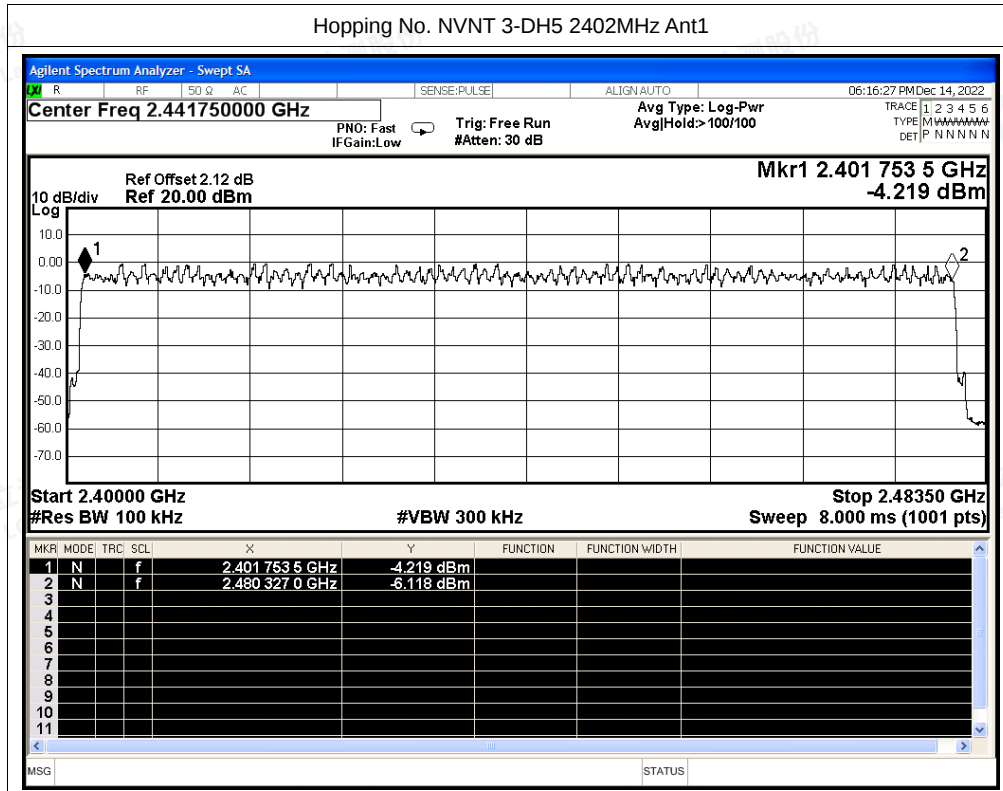


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.76	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.87	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.52	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.63	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.2	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.35	-20	Pass



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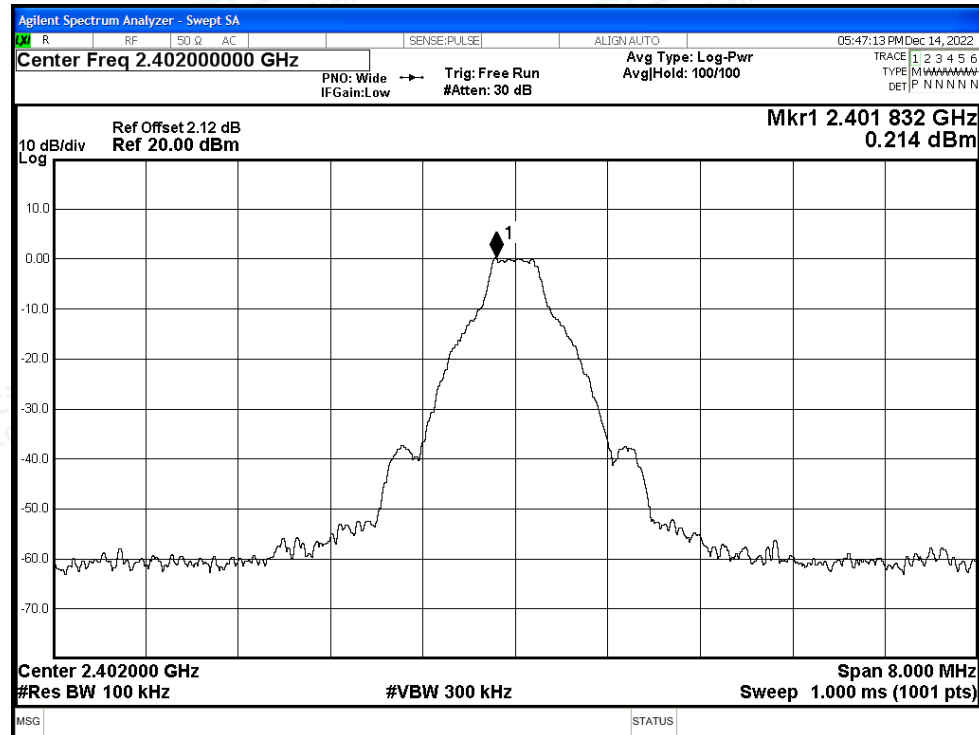
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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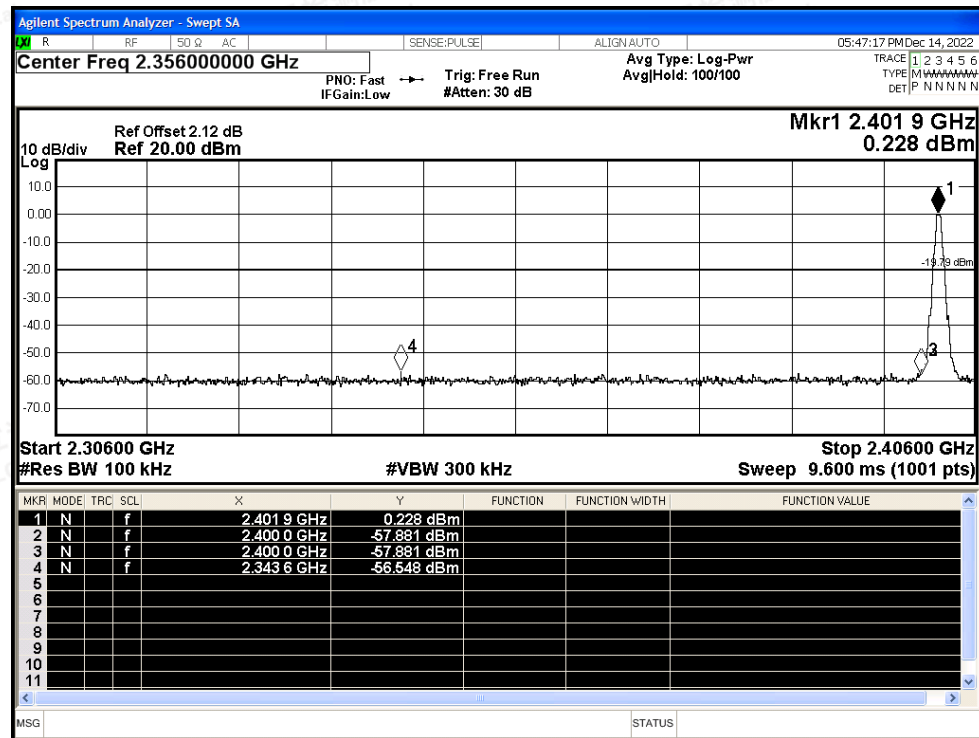


Test Graphs

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



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

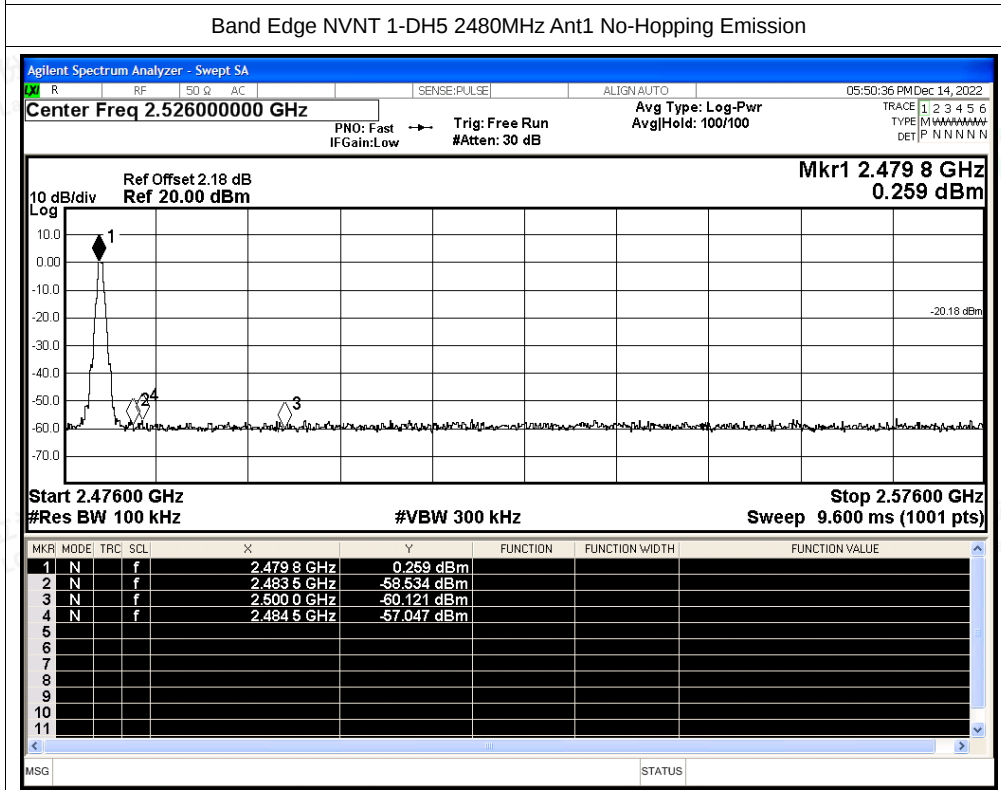
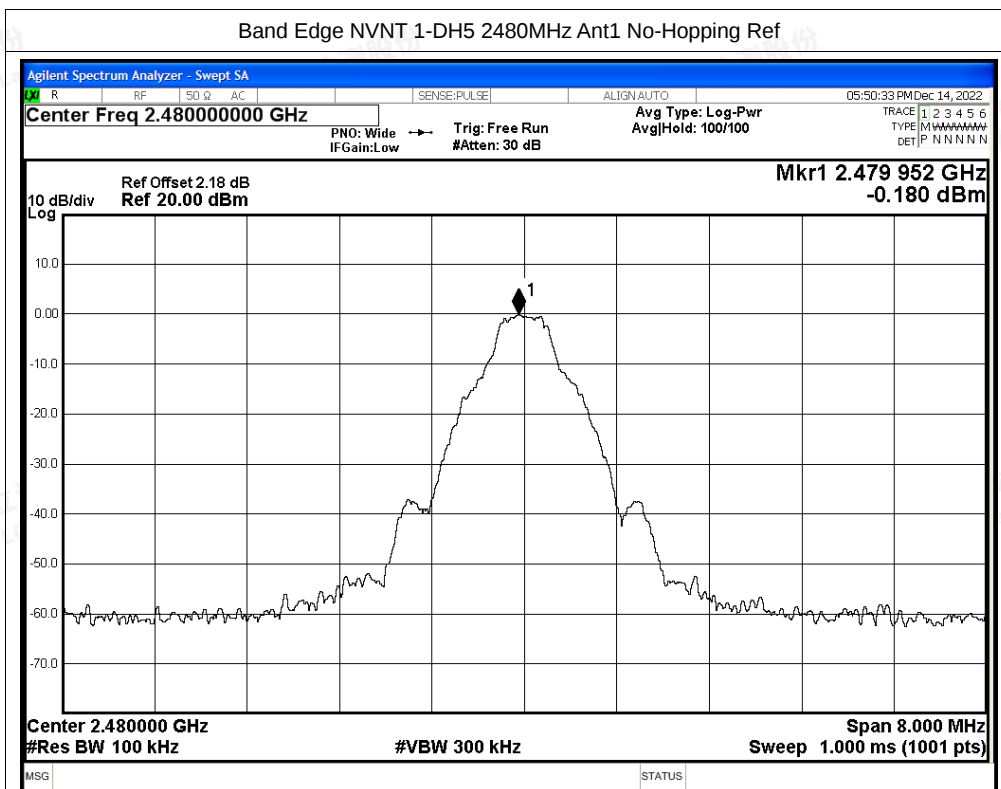


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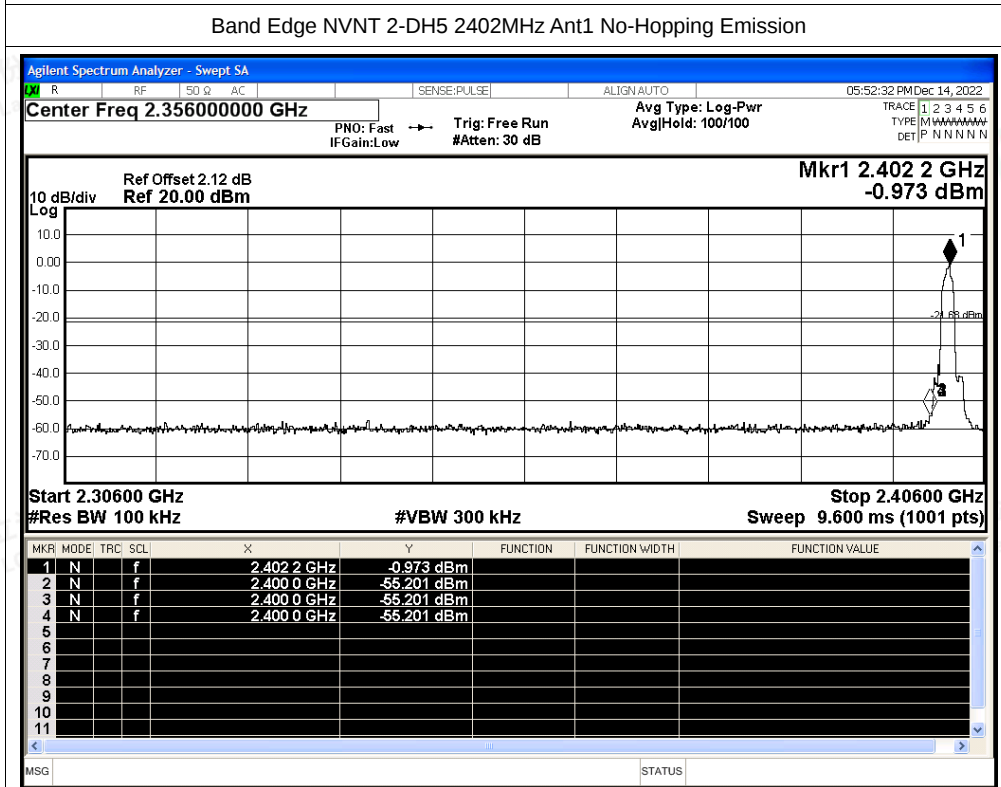
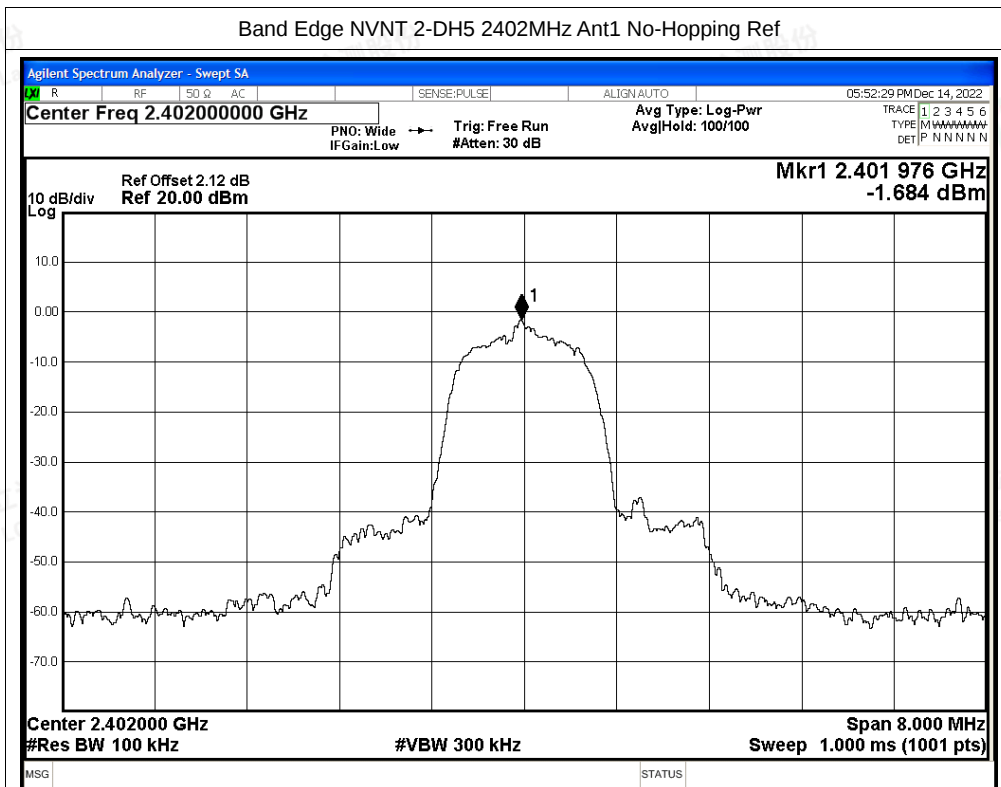


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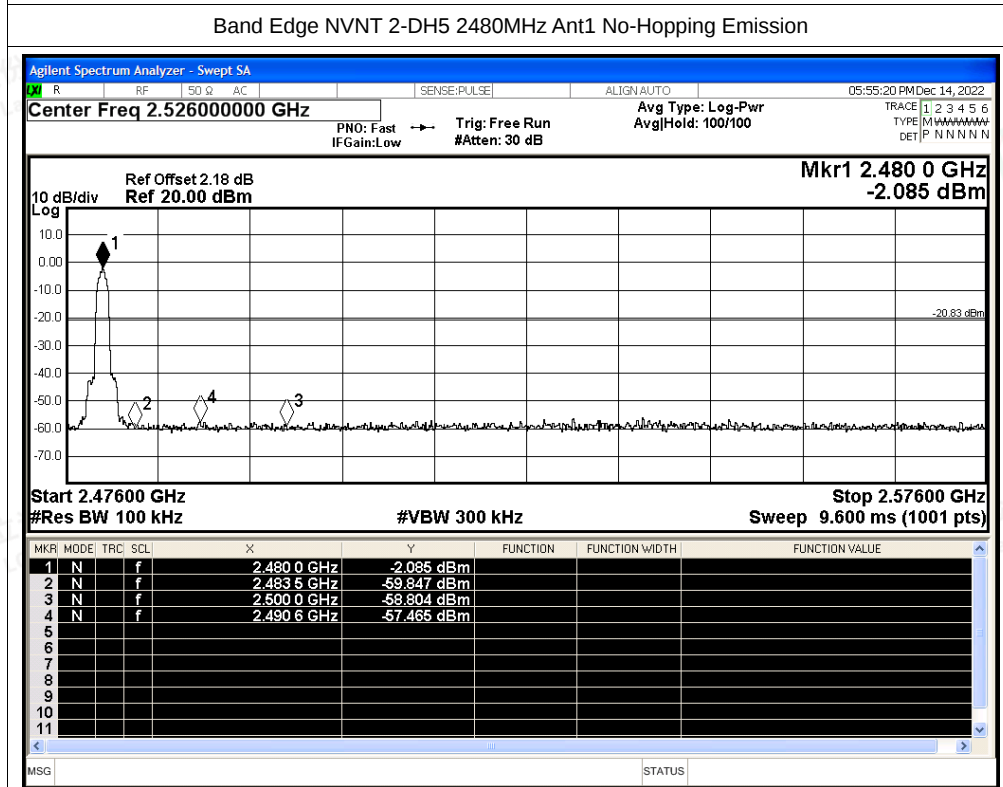
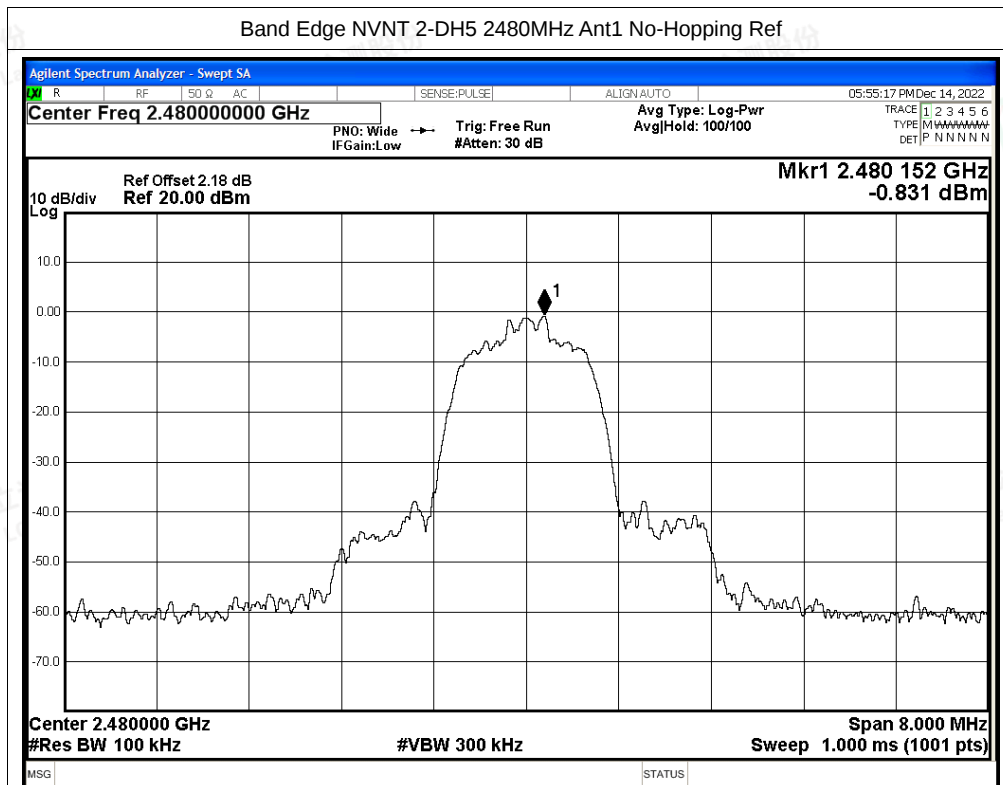


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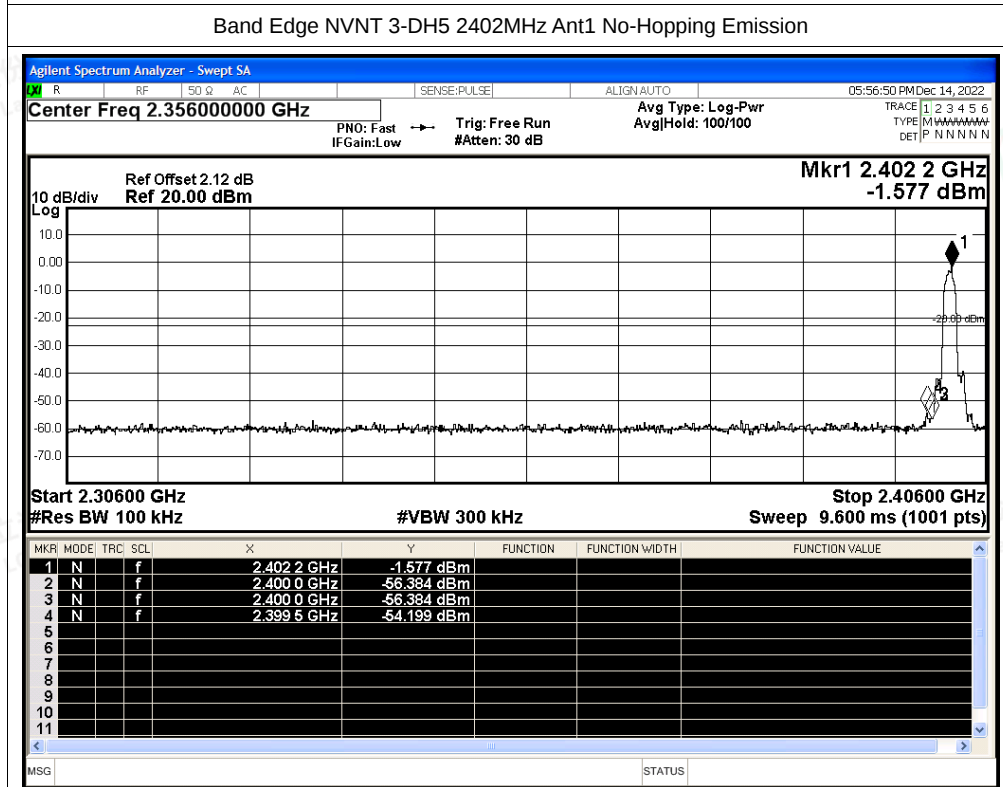
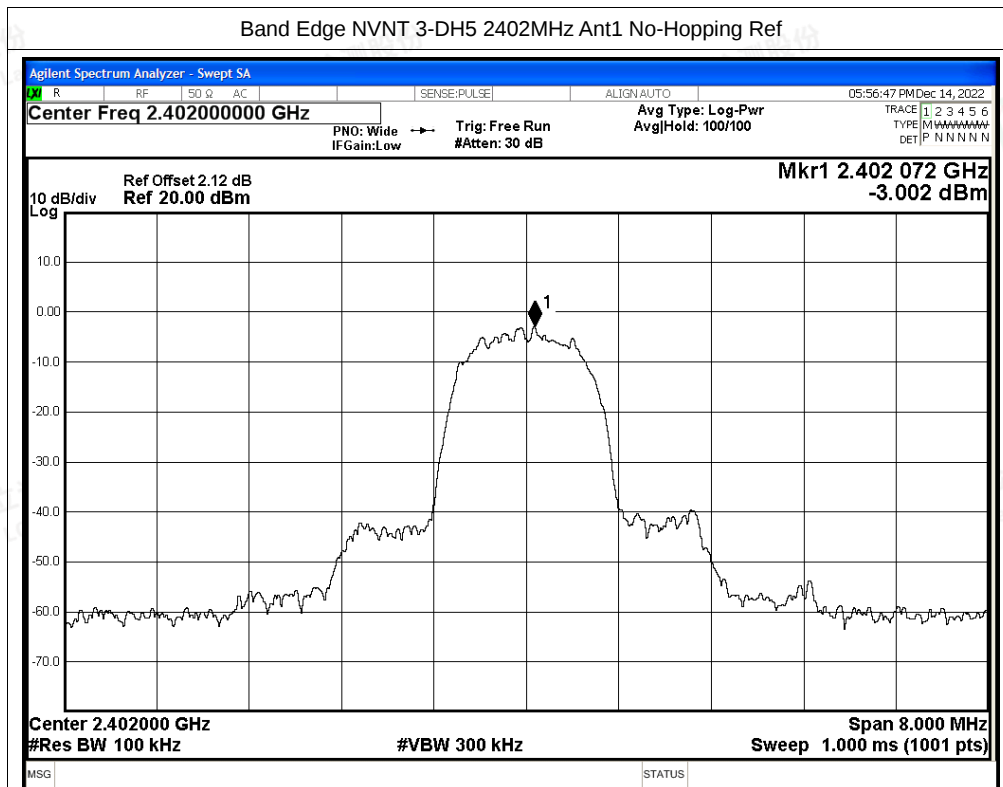


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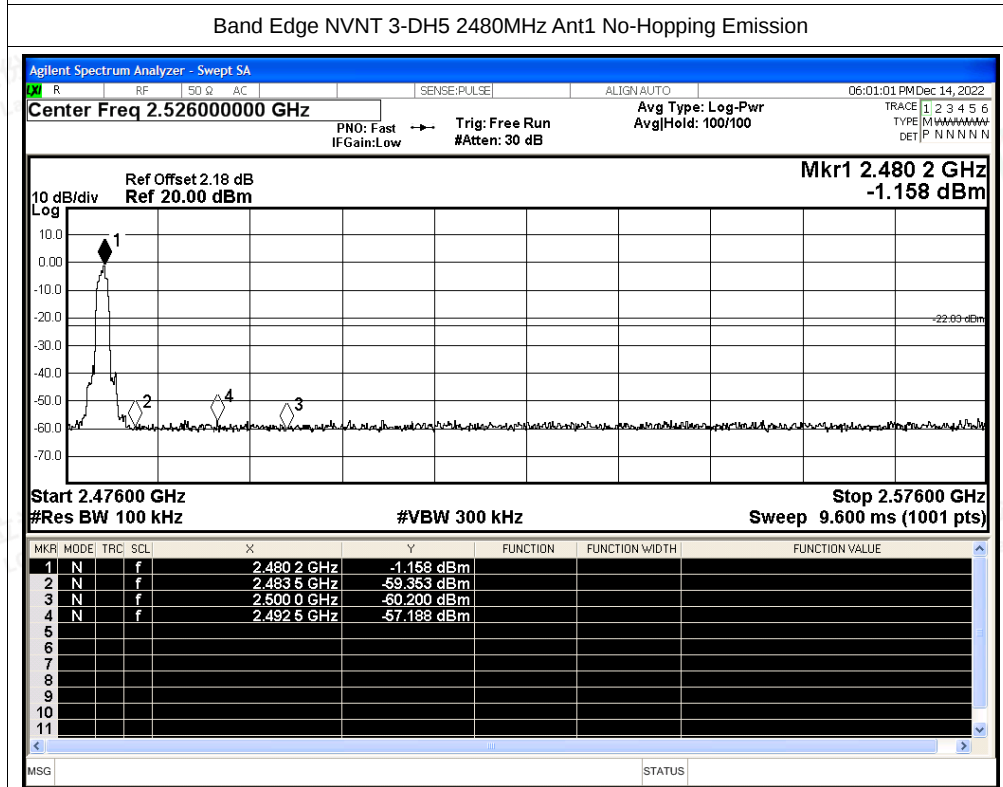
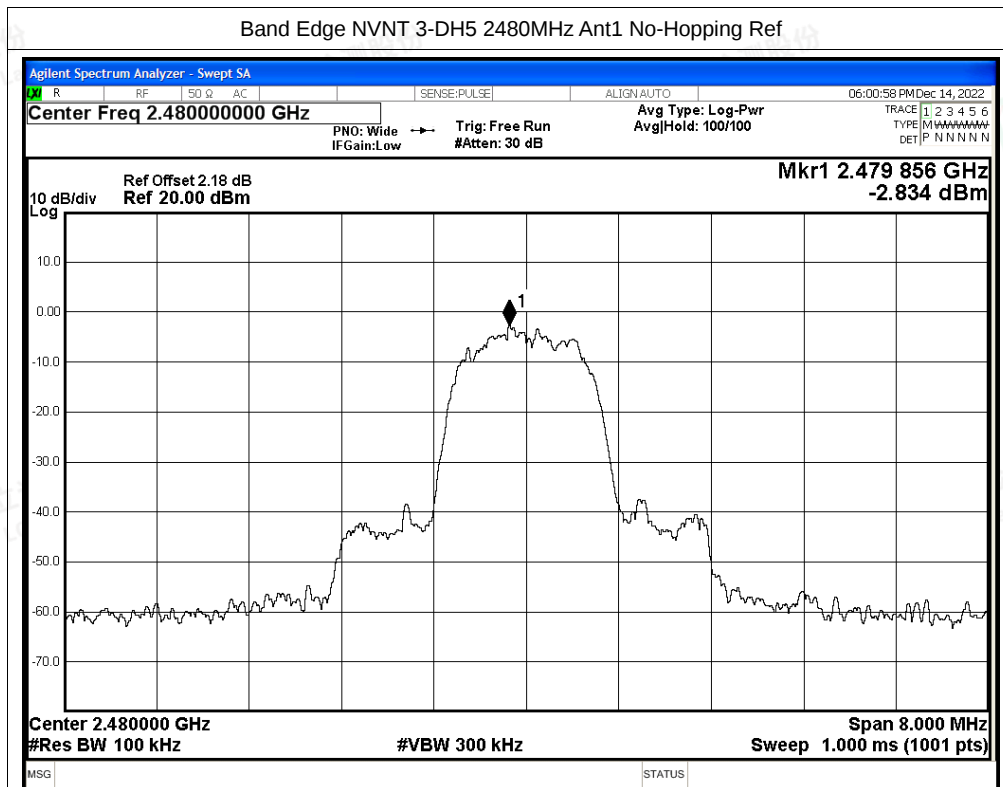


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(Hopping)

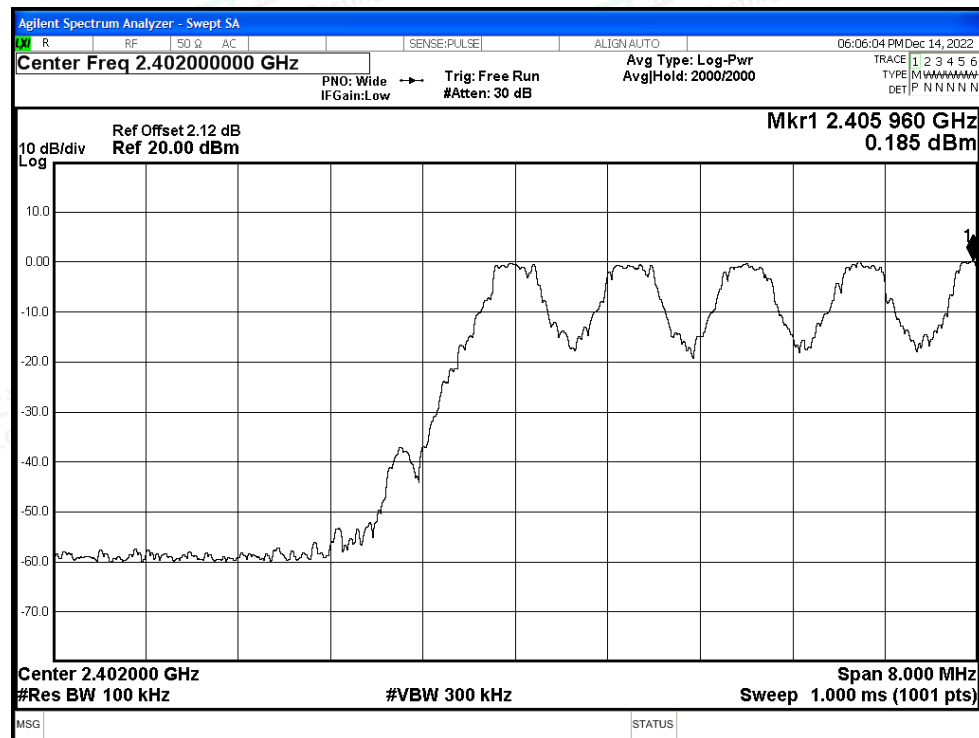
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.3	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.67	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.26	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.69	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.26	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.35	-20	Pass



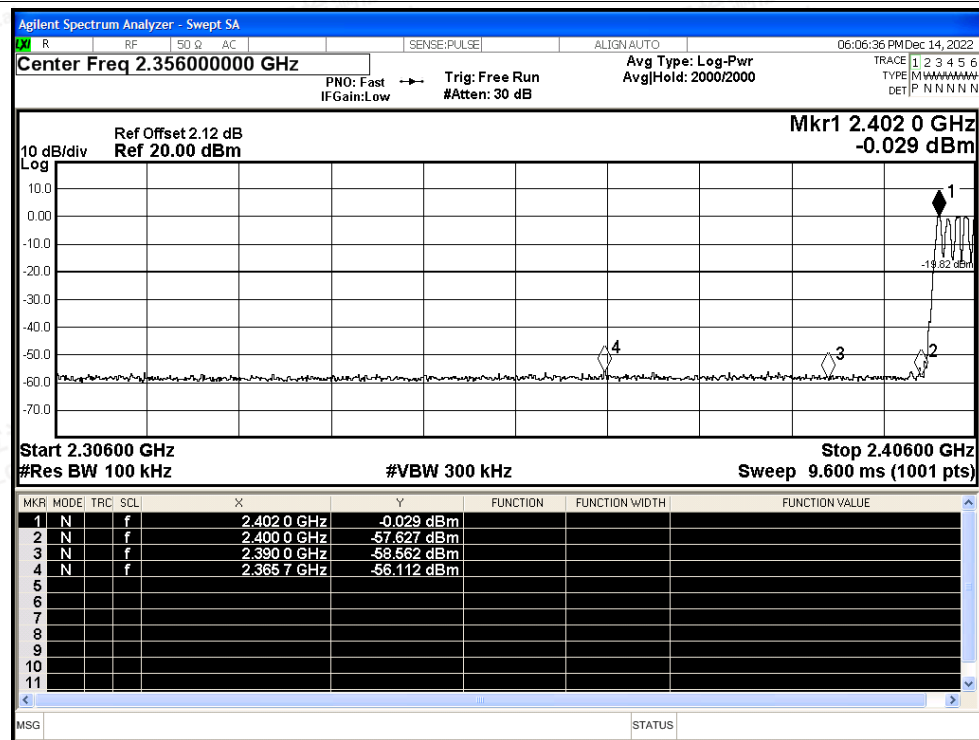


Test Graphs

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



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

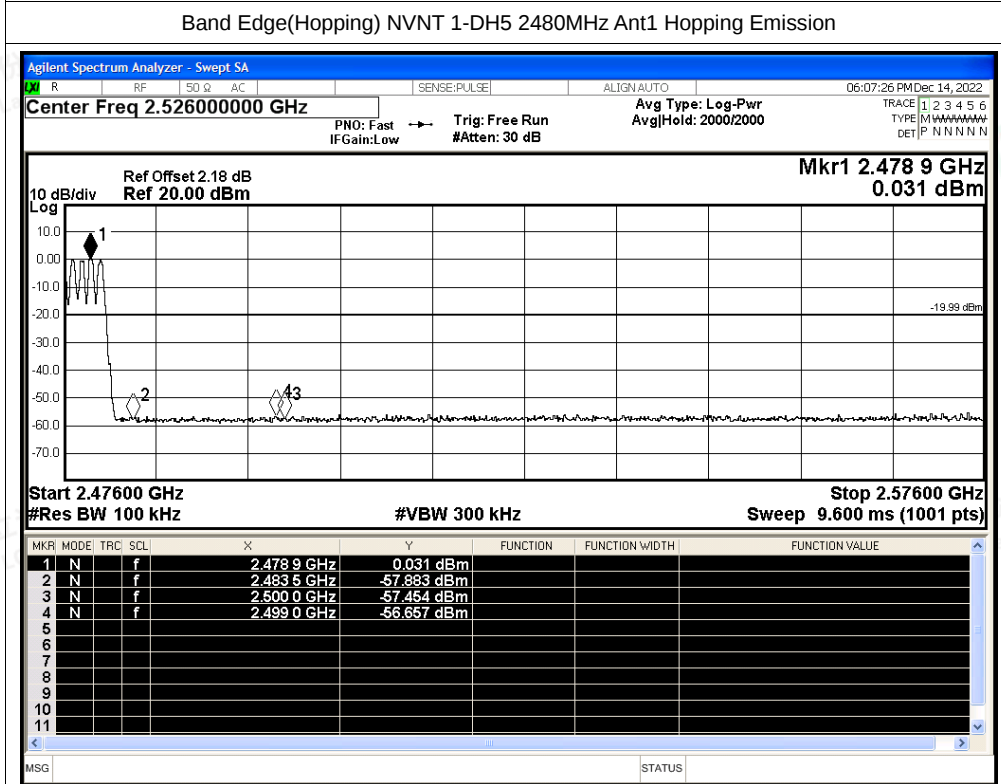
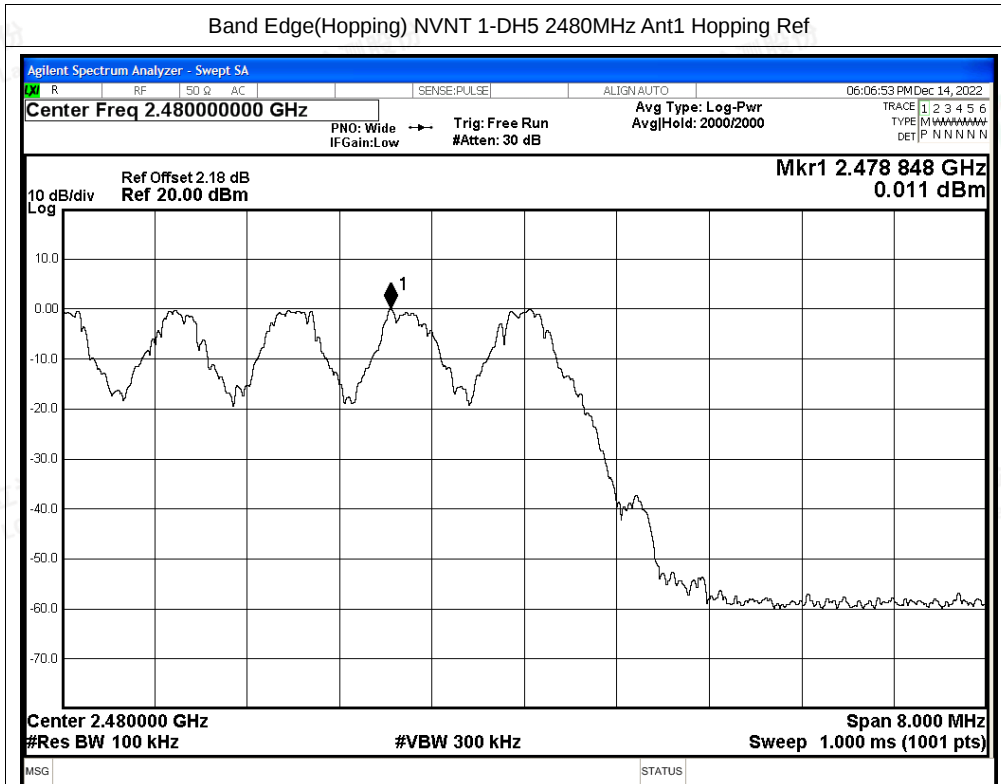


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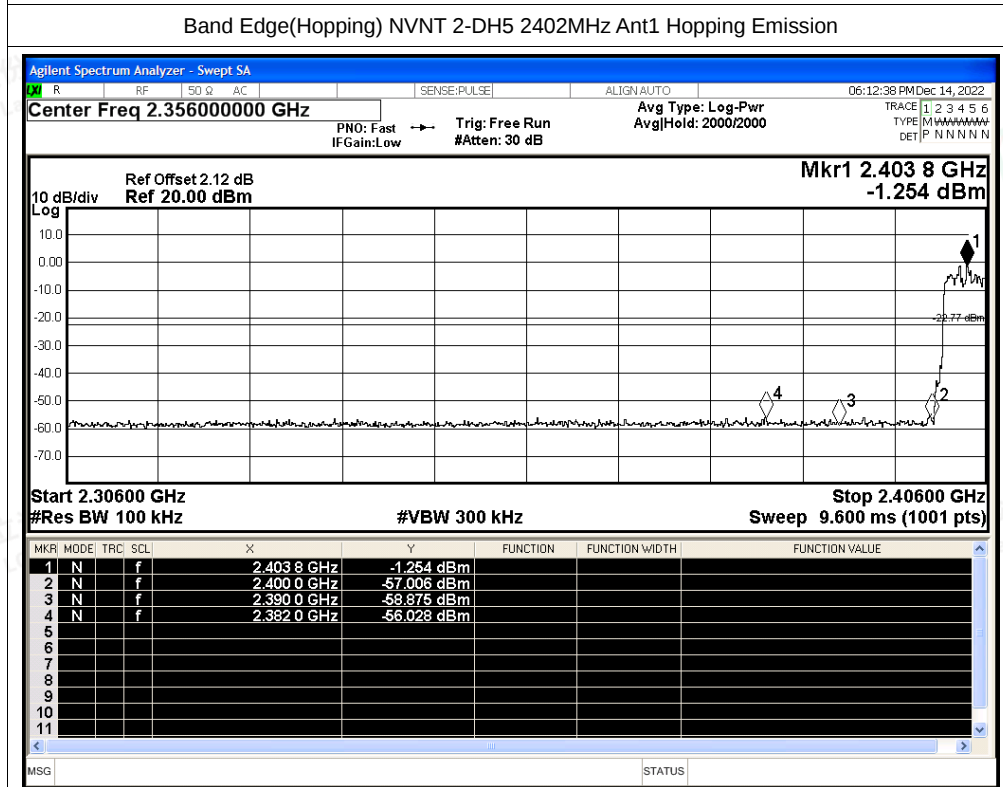
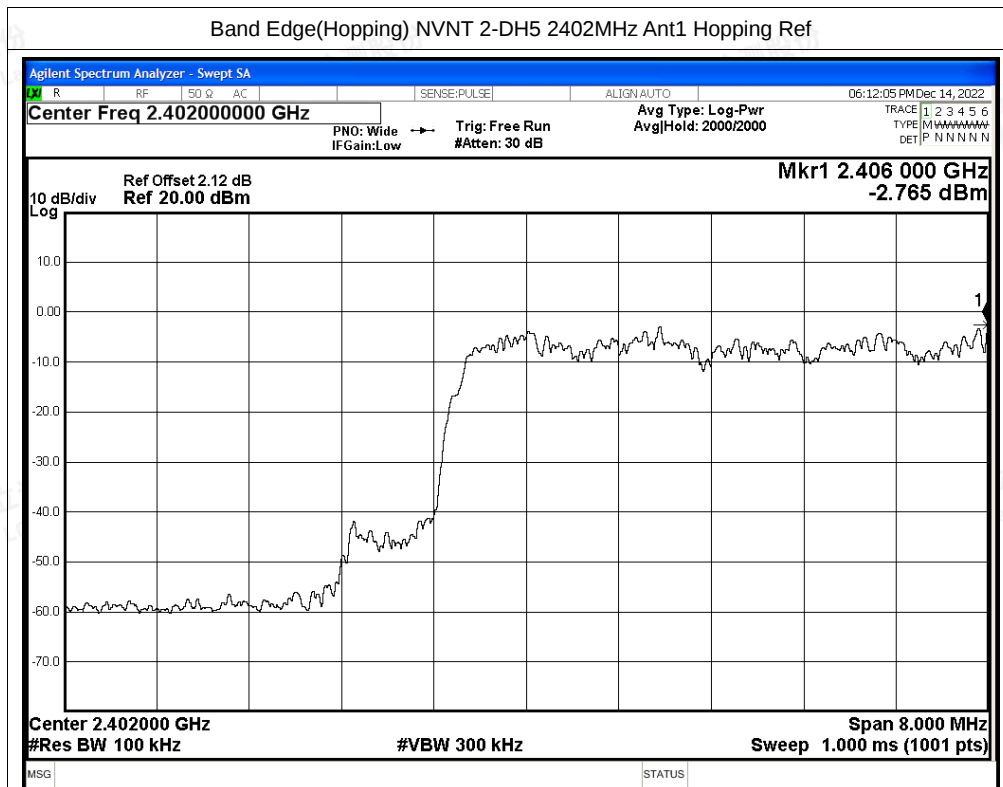


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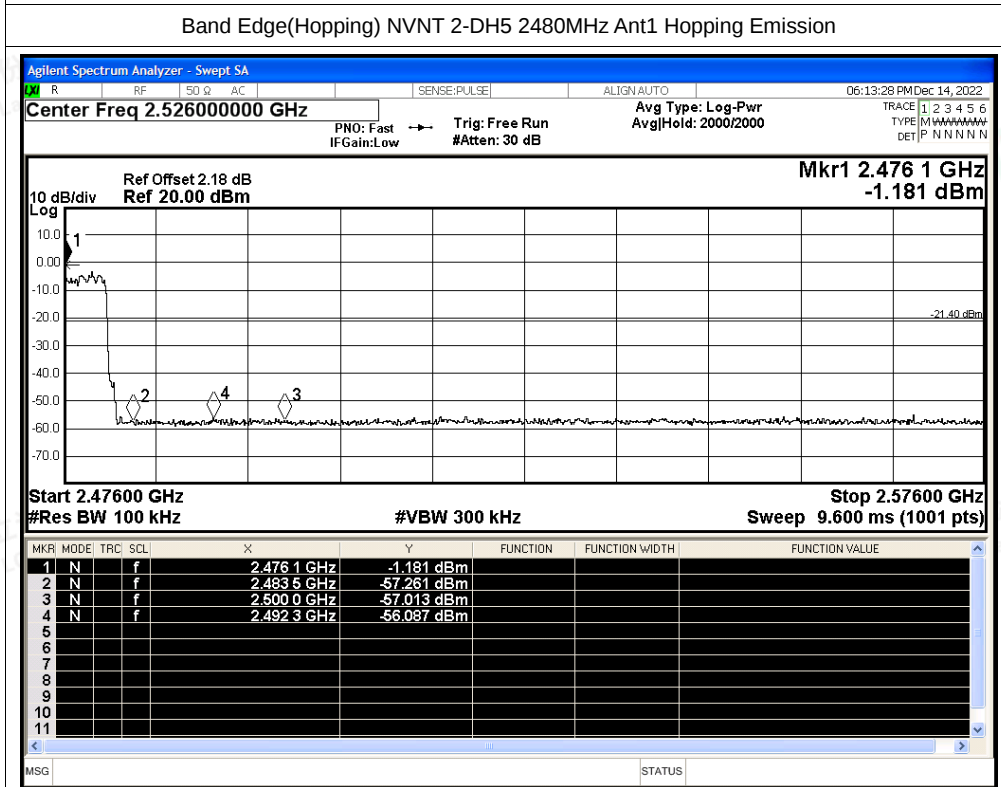
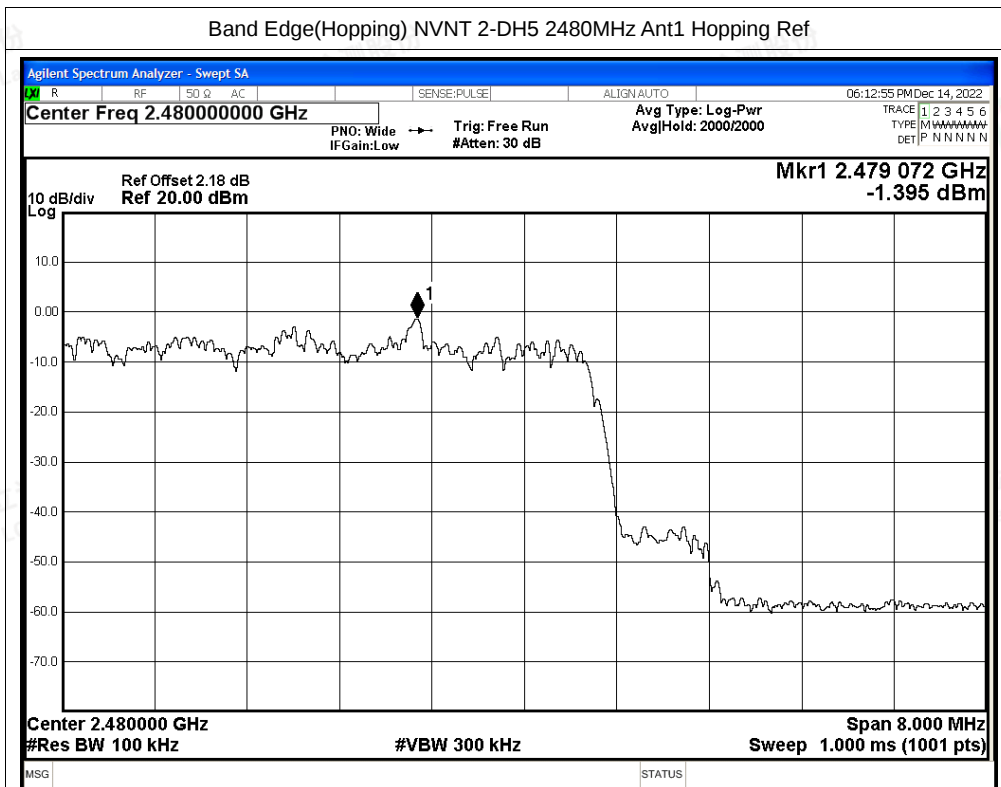


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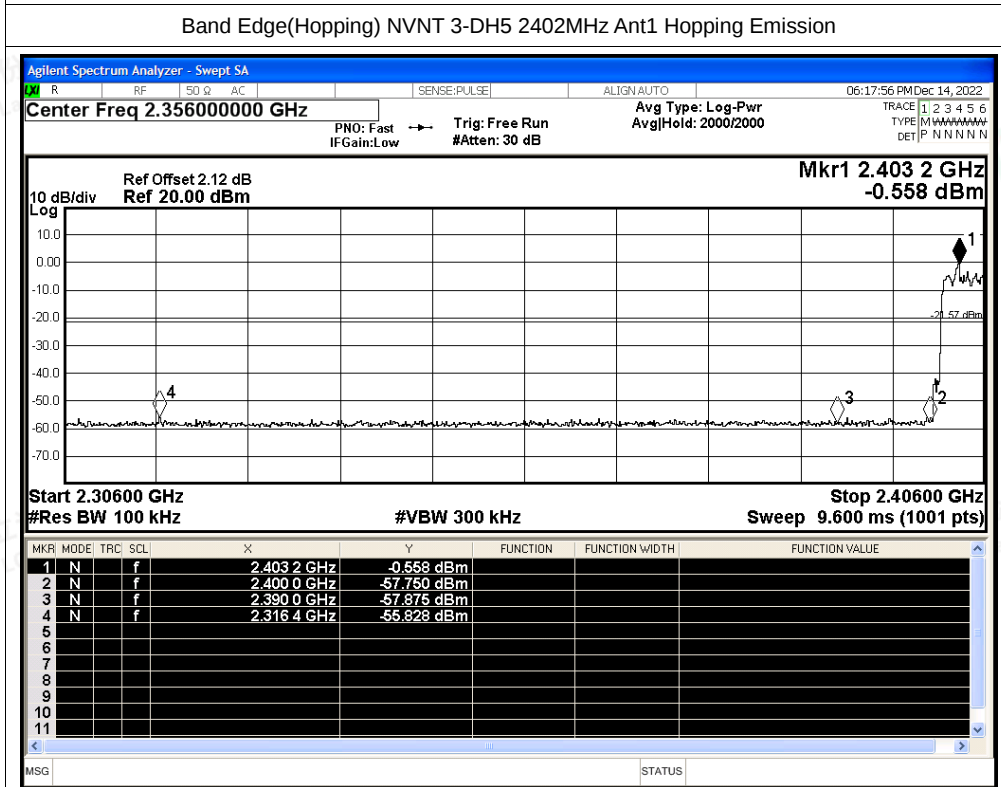
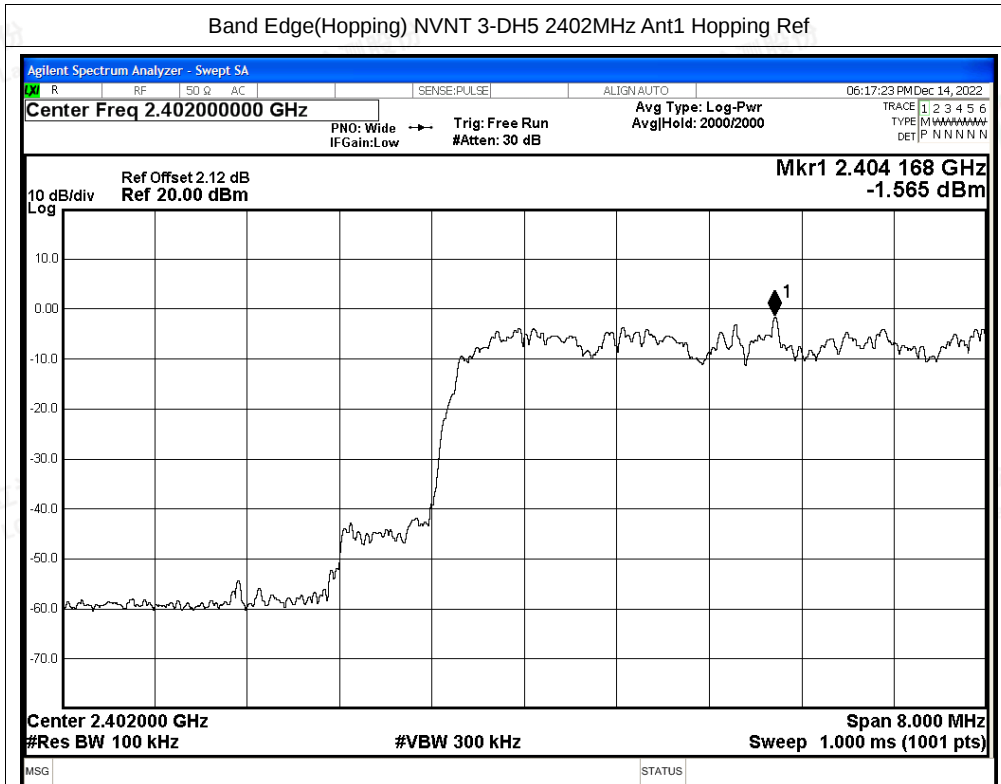


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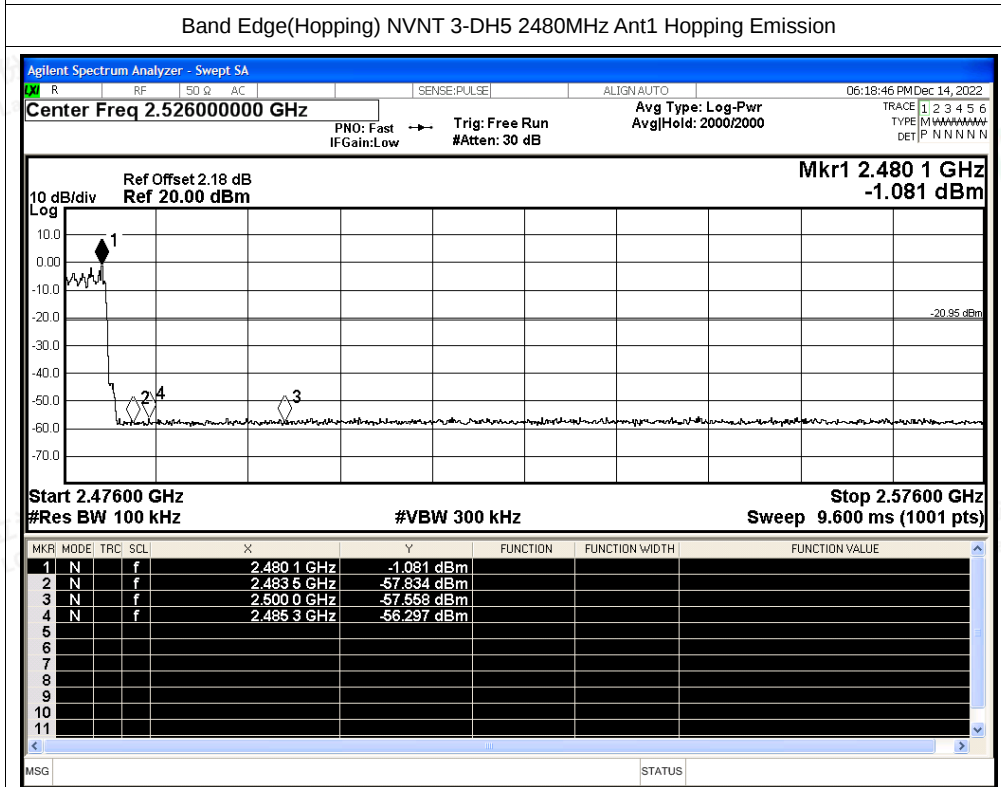
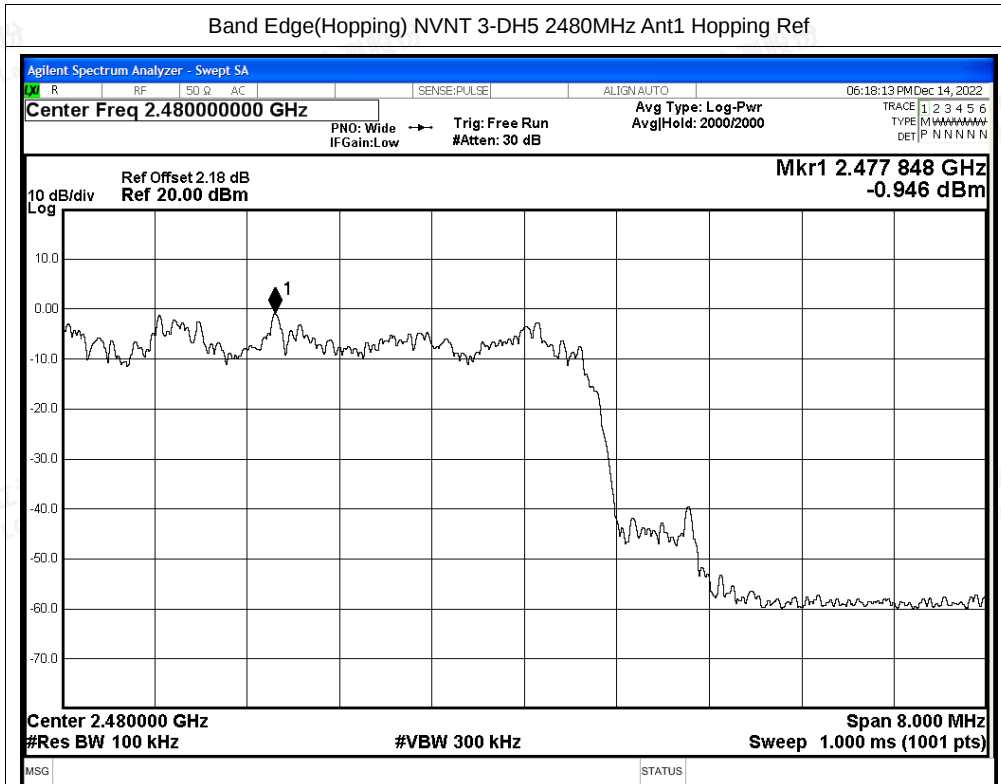


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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.5	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.03	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.33	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.44	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.55	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.96	-20	Pass
NVNT	3-DH5	2402	Ant1	-55.22	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.63	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.1	-20	Pass



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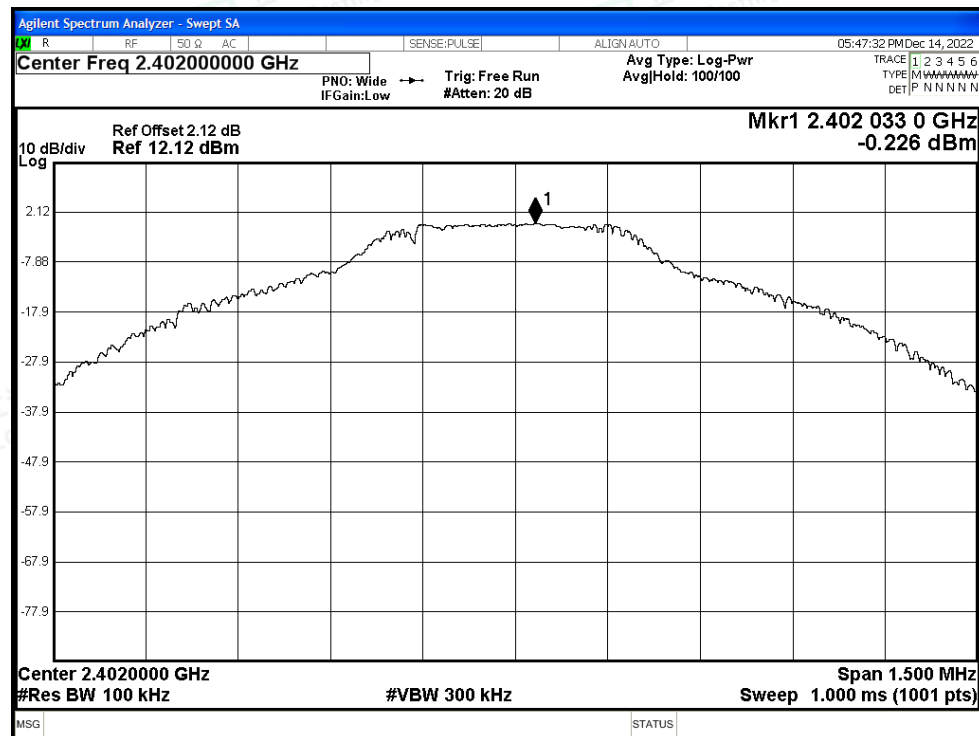
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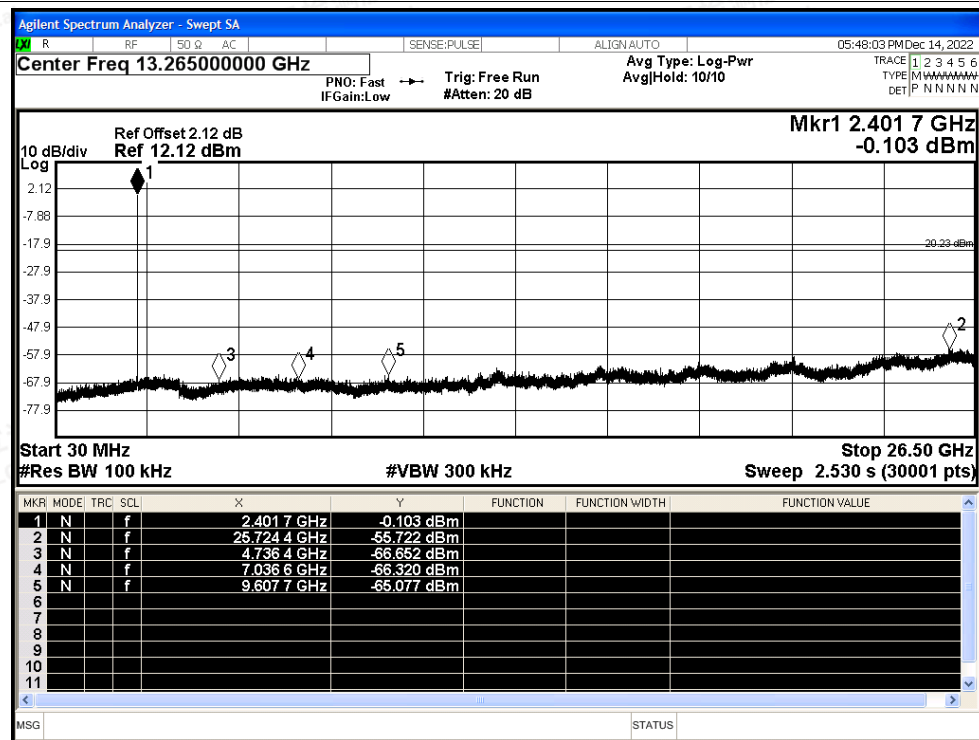


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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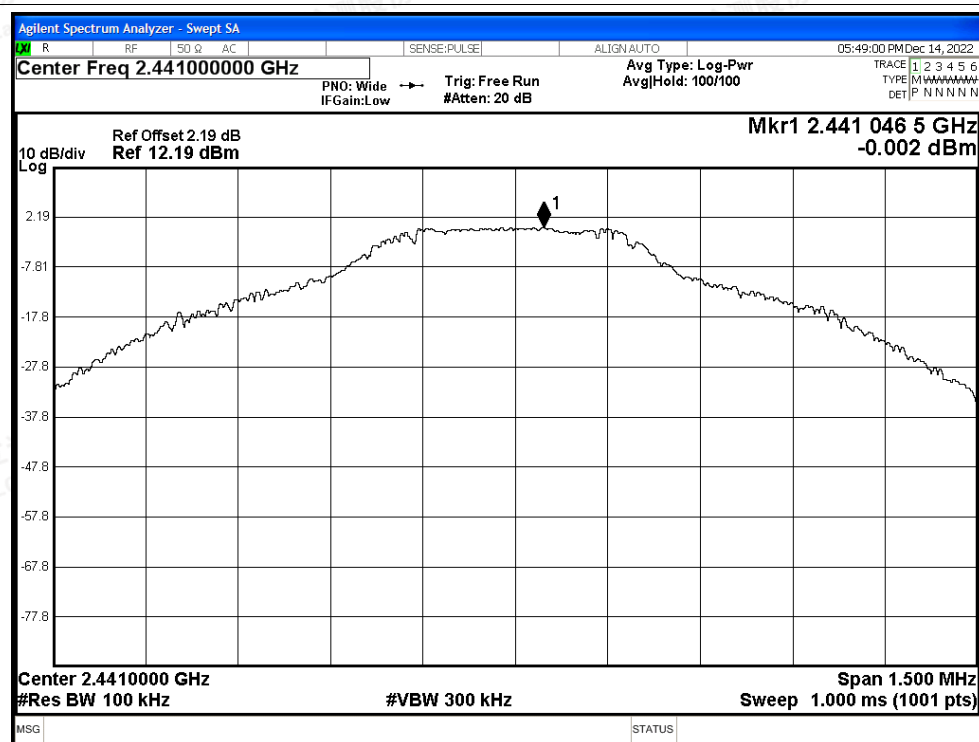
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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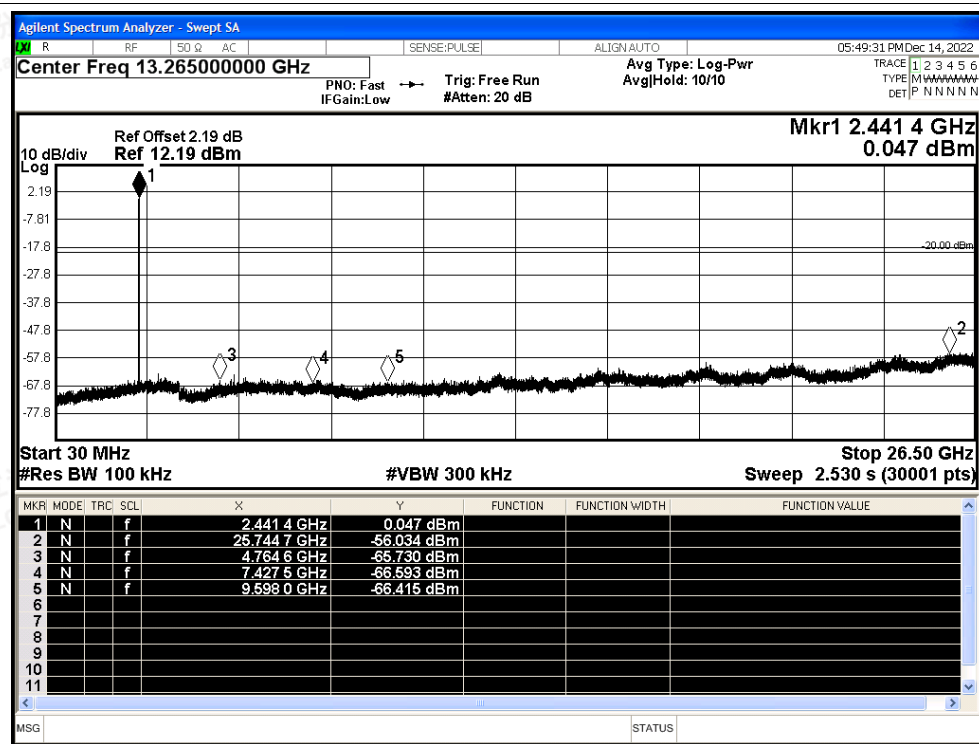
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

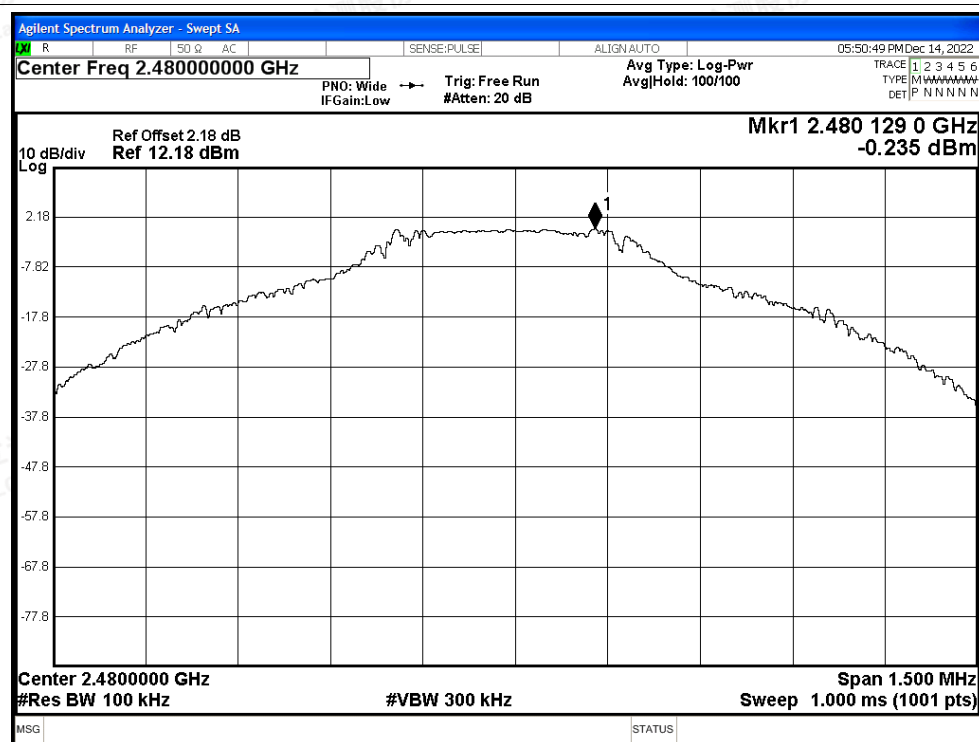
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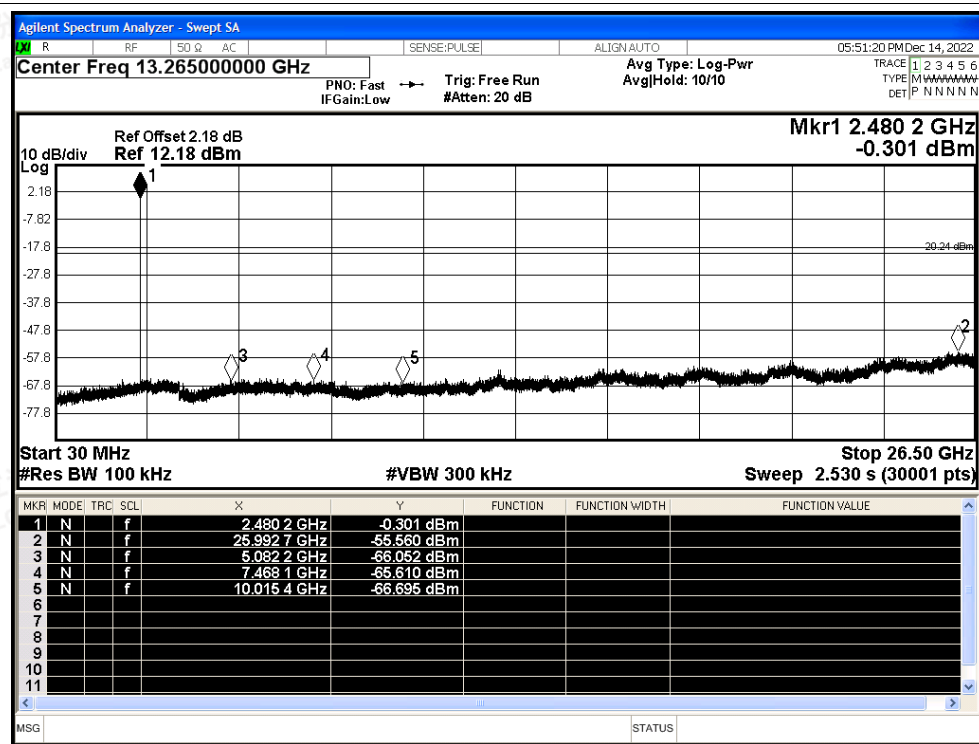
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

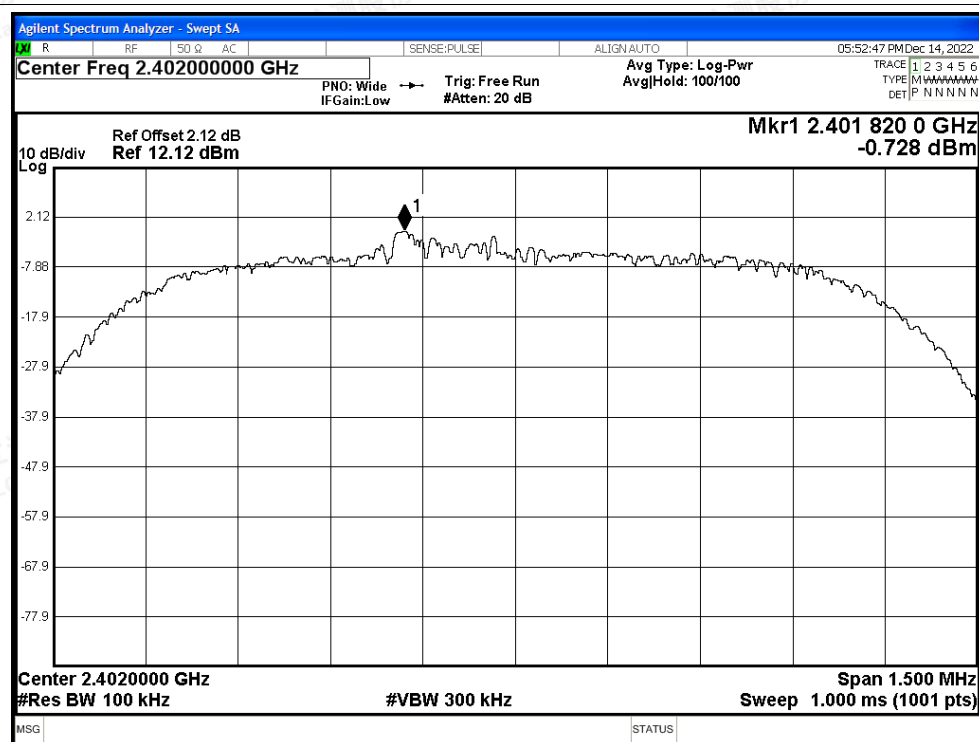
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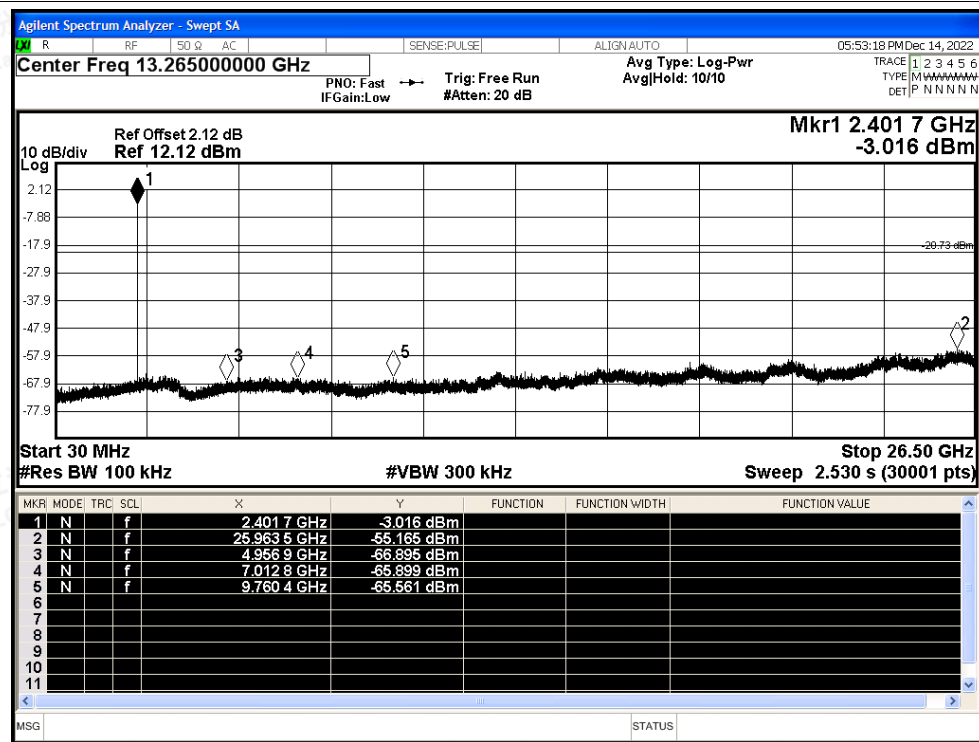
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



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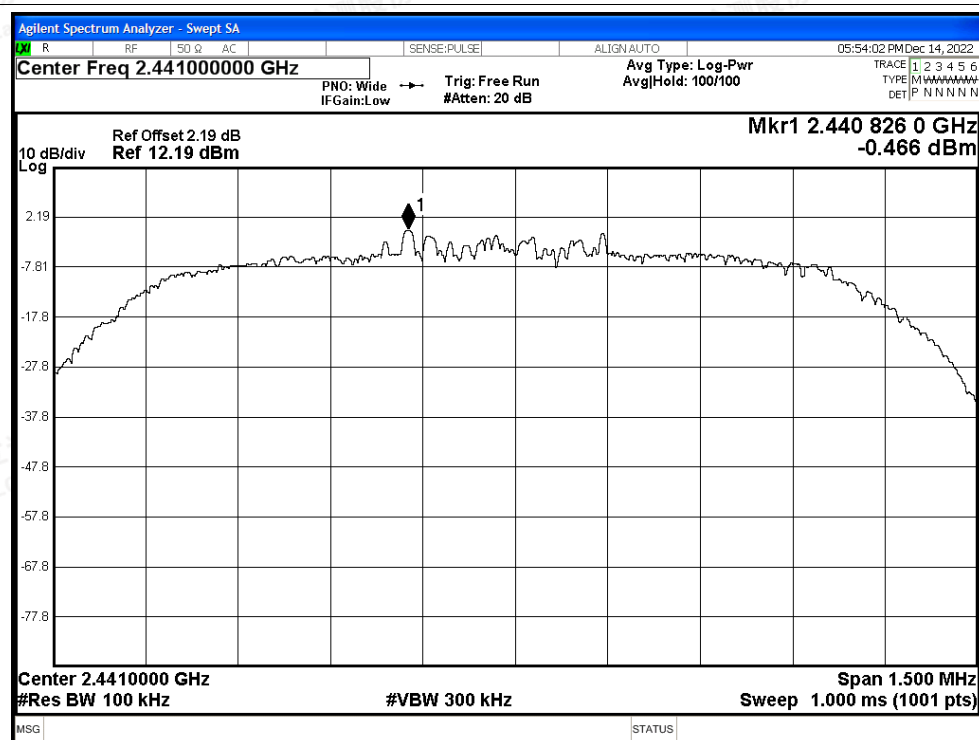
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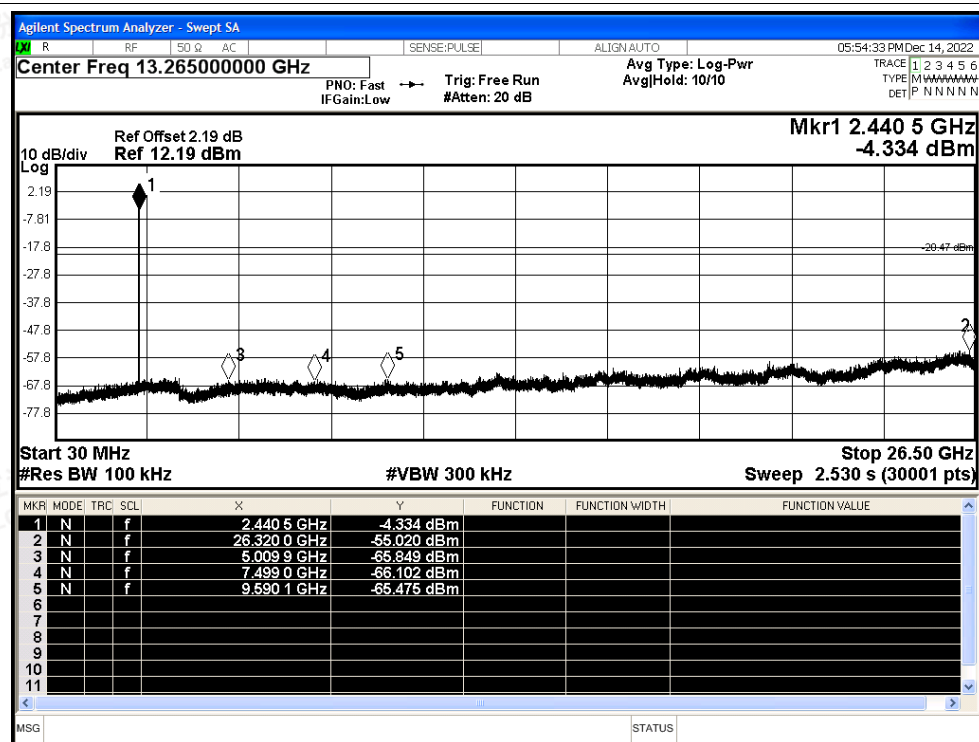
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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

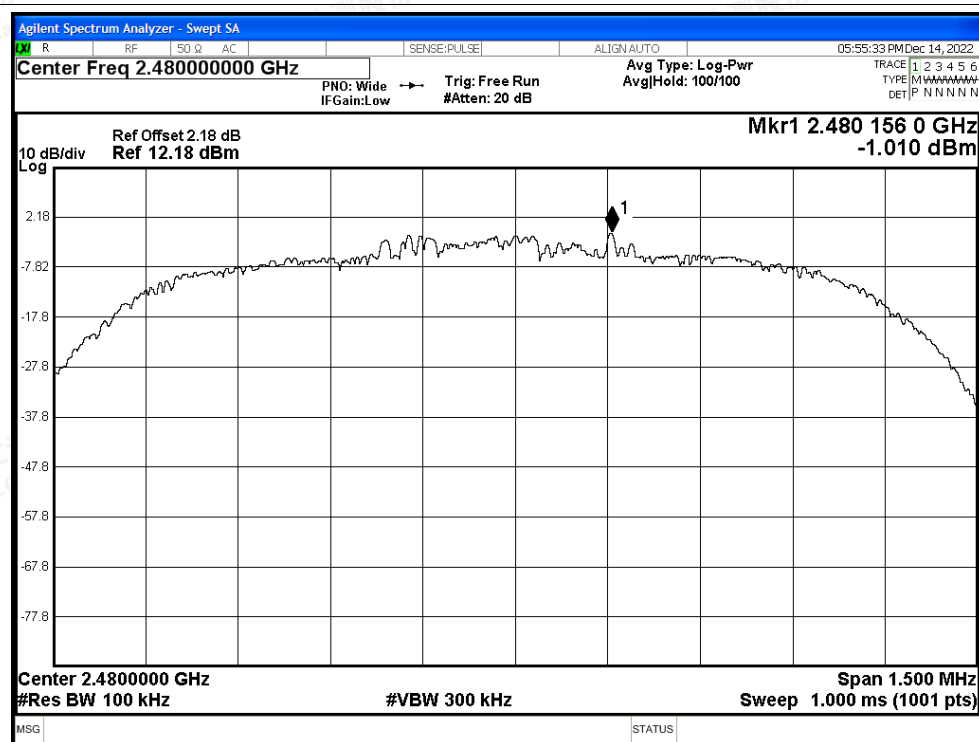
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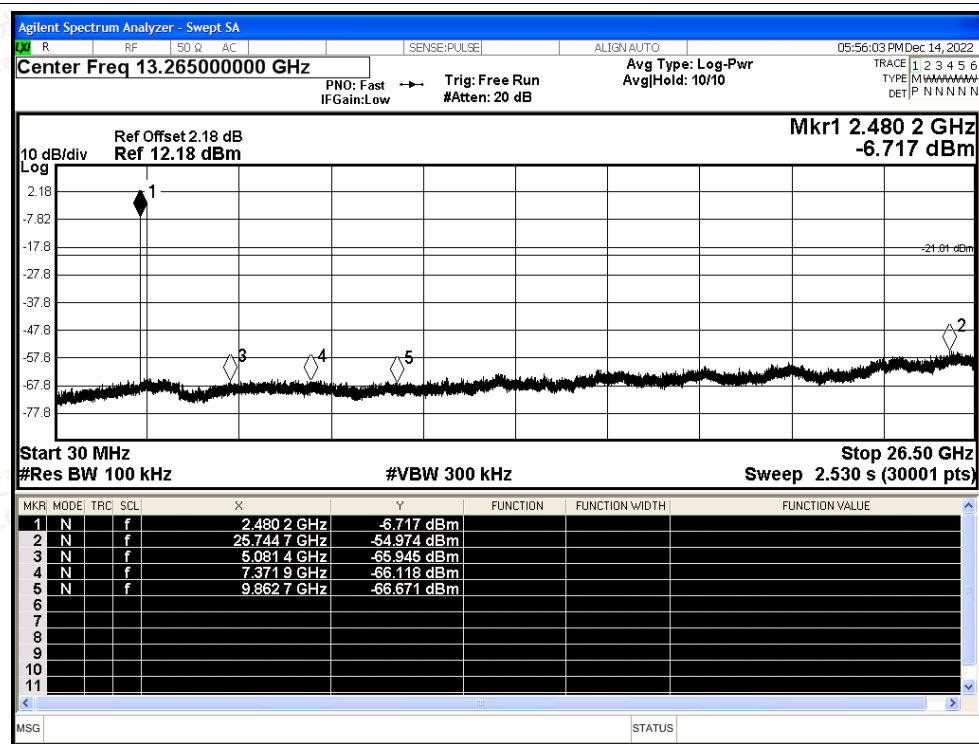
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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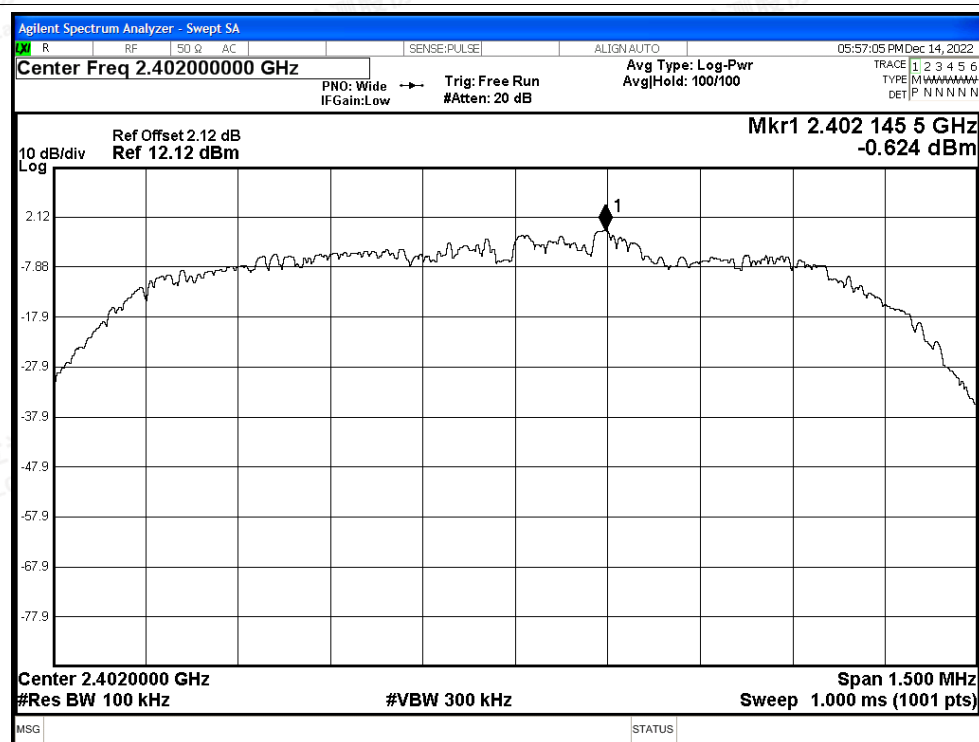
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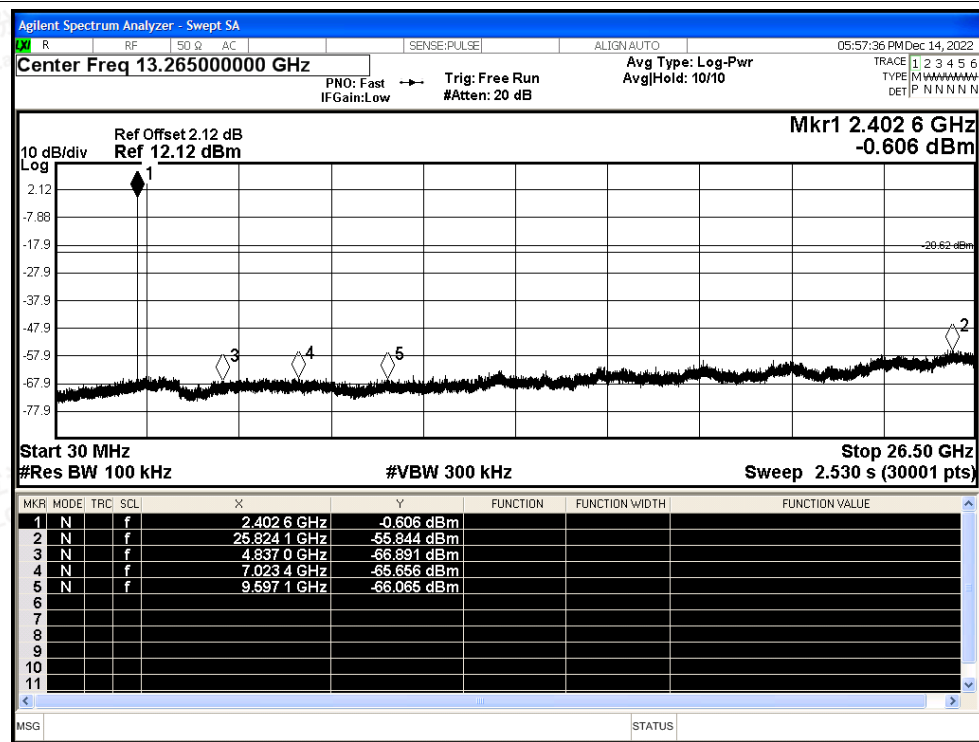
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



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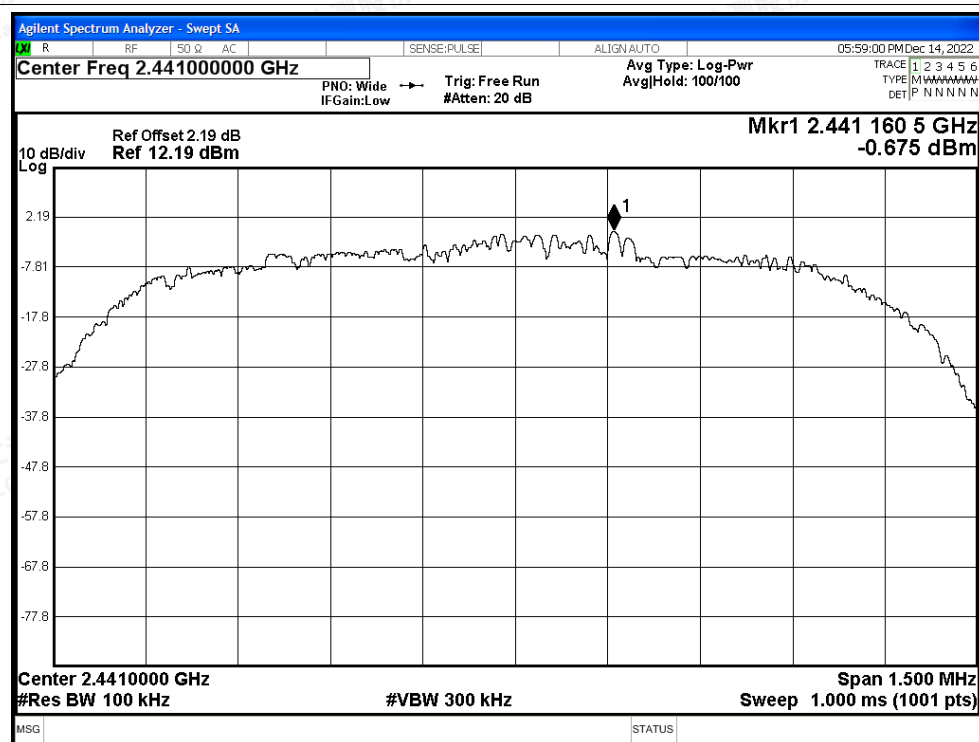
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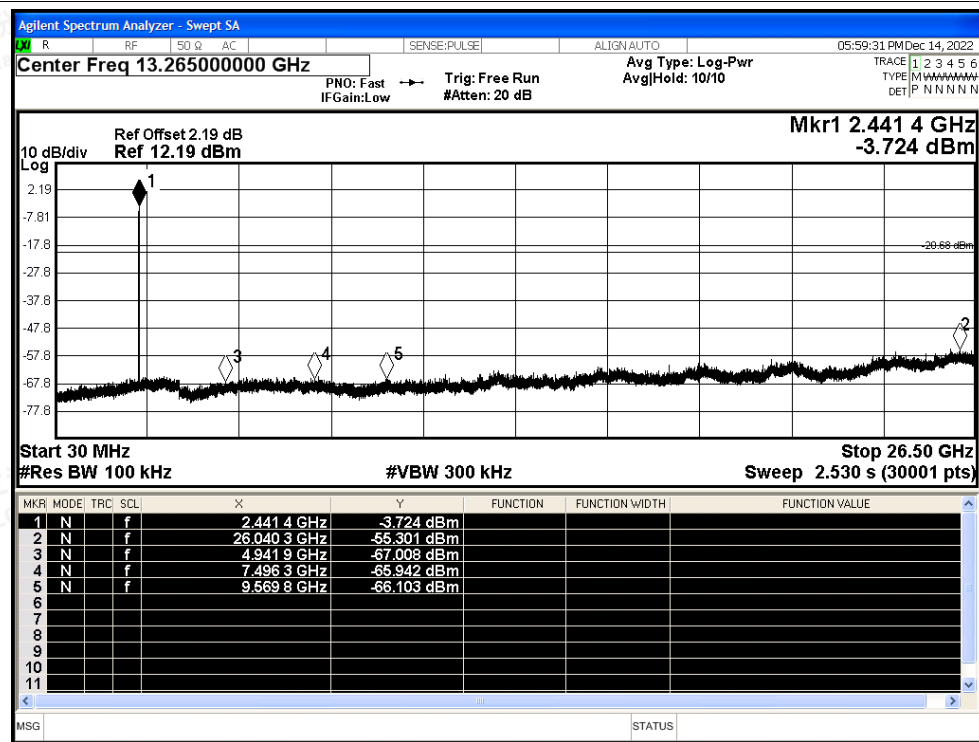
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



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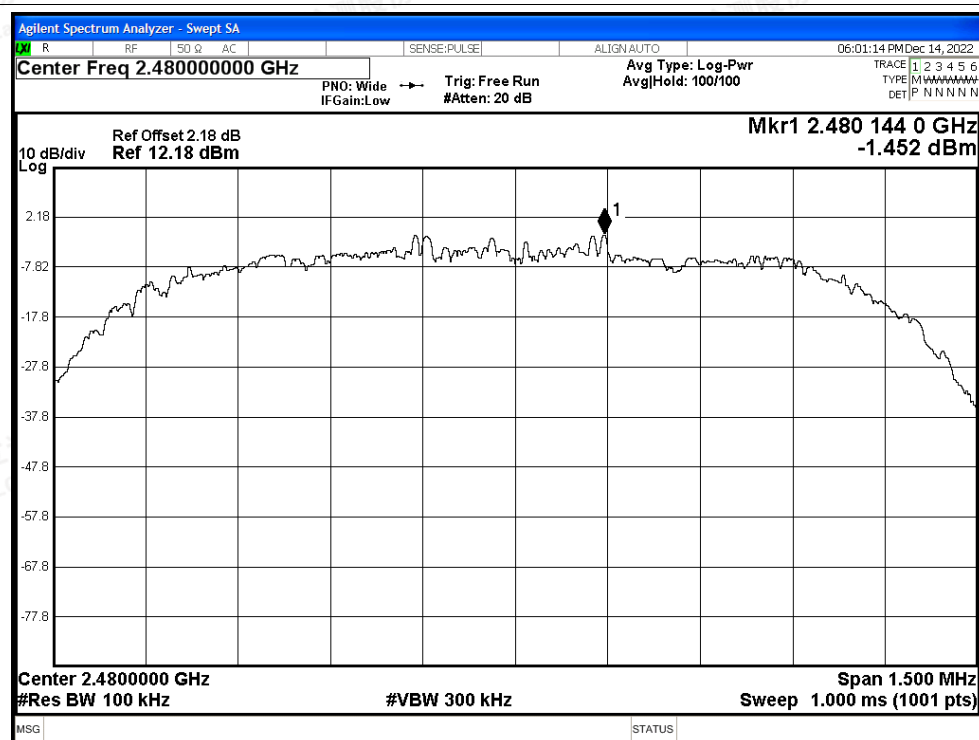
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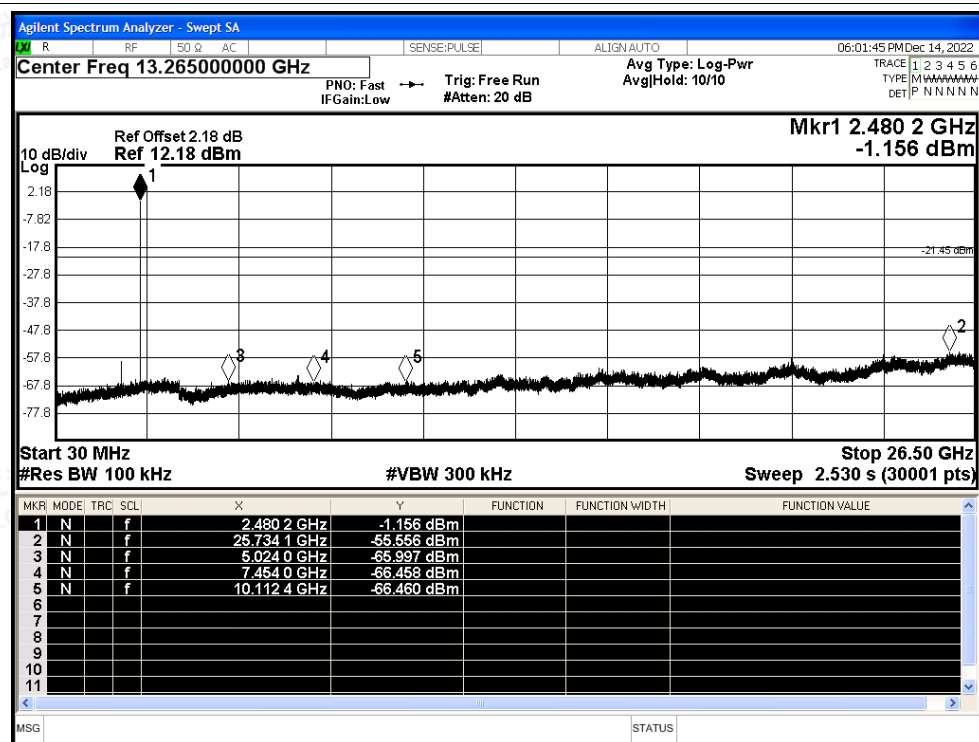
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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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	-50.63	2	46.63	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.57	2	36.69	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2341.584	-47.88	2	49.38	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.296	-59.95	2	37.31	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.77	2	47.49	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.2	2	37.06	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.96	2	47.3	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.69	2	37.57	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2491.048	-46.8	2	50.46	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.4	-59.49	2	37.77	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-47.7	2	49.56	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.77	2	37.49	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.5	2	46.76	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.49	2	36.77	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2383.44	-46.78	2	50.48	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2383.728	-59.91	2	37.35	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.73	2	45.53	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.13	2	37.13	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	-59.49	2	37.77	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2492.464	-47.17	2	50.09	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-59.49	2	37.77	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.91	2	47.35	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.78	2	37.48	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-48.3	2	48.96	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.5	2	36.76	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2367.024	-47.36	2	49.9	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2384.208	-59.9	2	37.36	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.27	2	45.99	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.09	2	37.17	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-46.45	2	50.81	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.66	2	37.6	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-46.45	2	50.81	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.848	-59.47	2	37.79	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.31	2	46.95	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.79	2	37.47	Average	54	Pass



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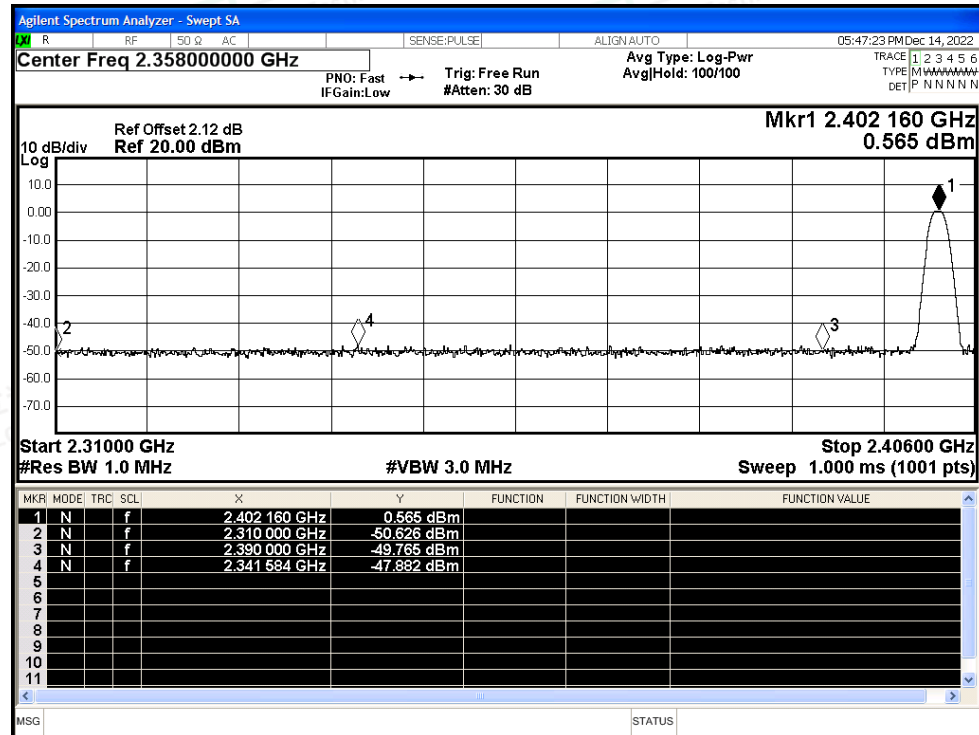
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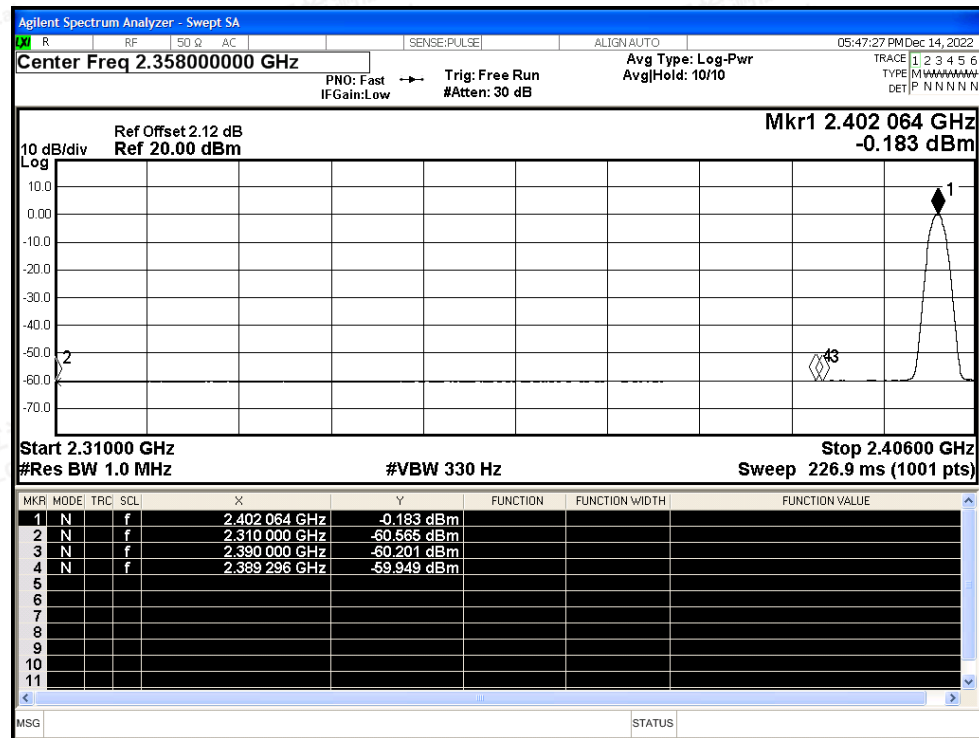


Test Graphs

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



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

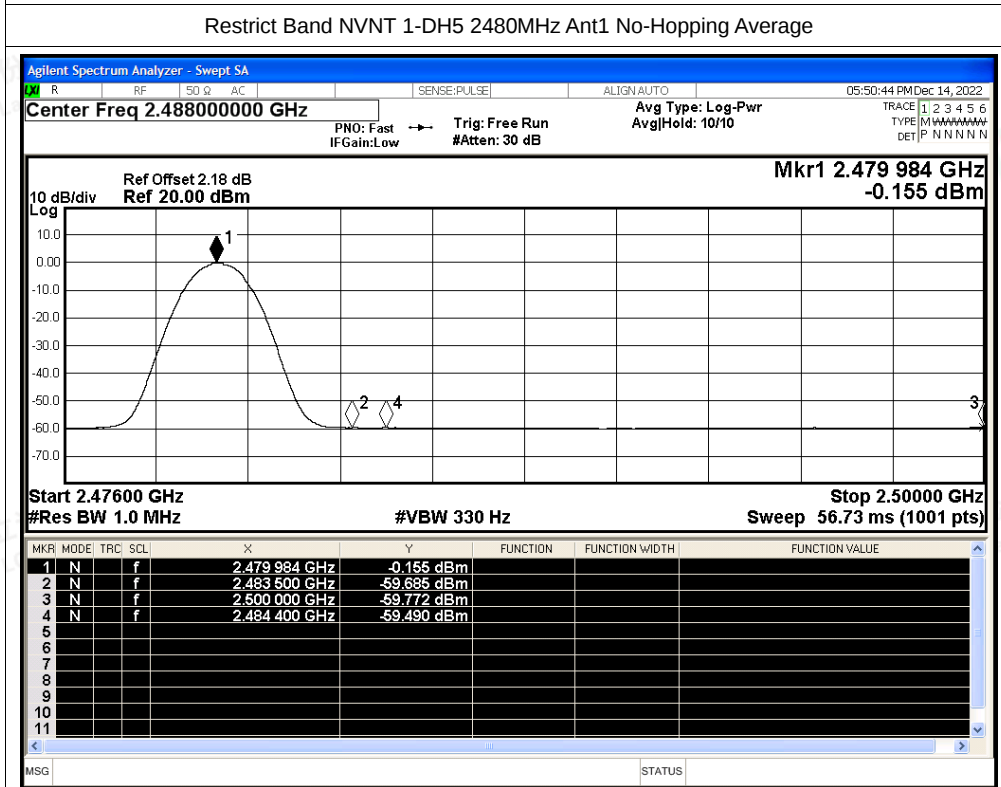
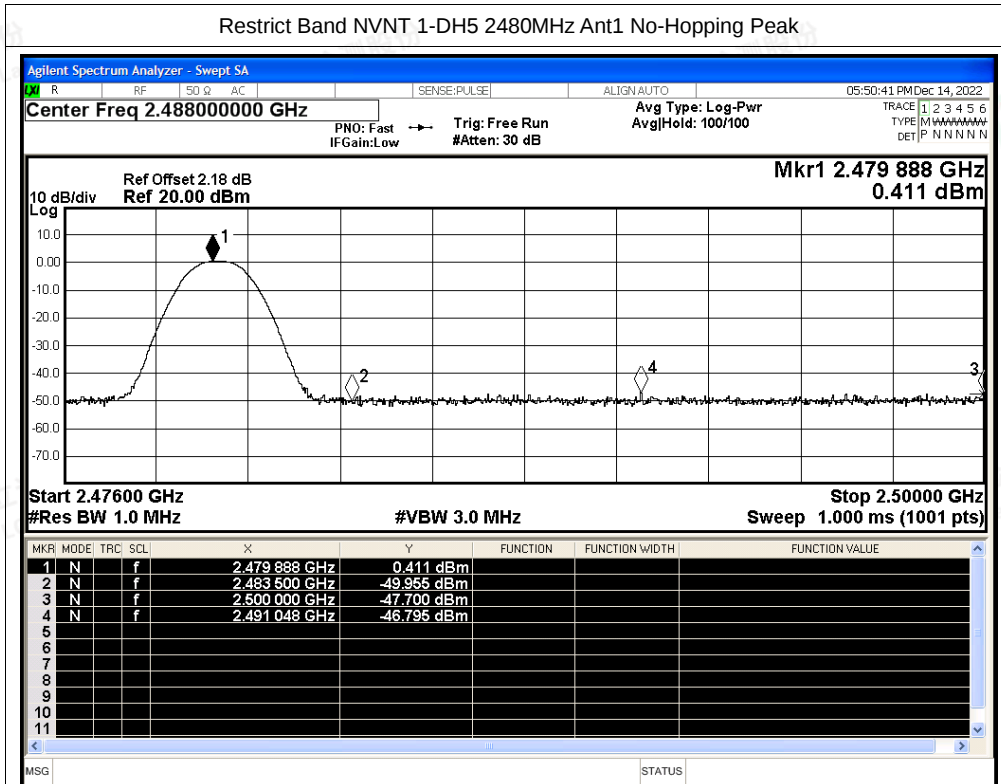


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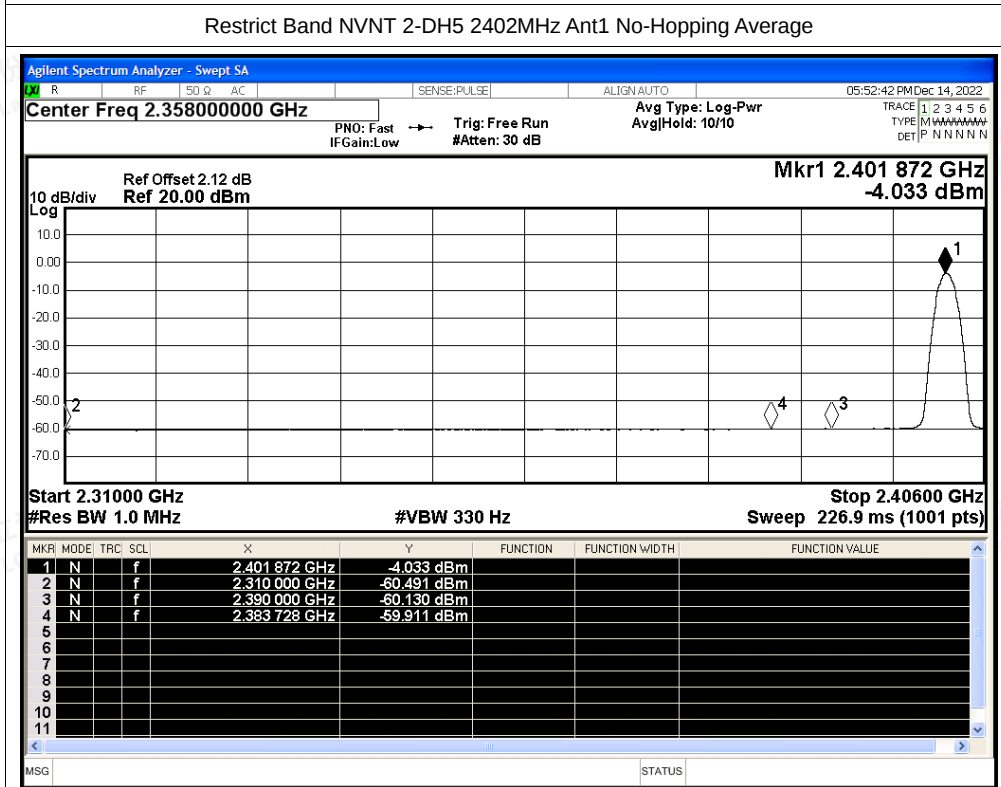
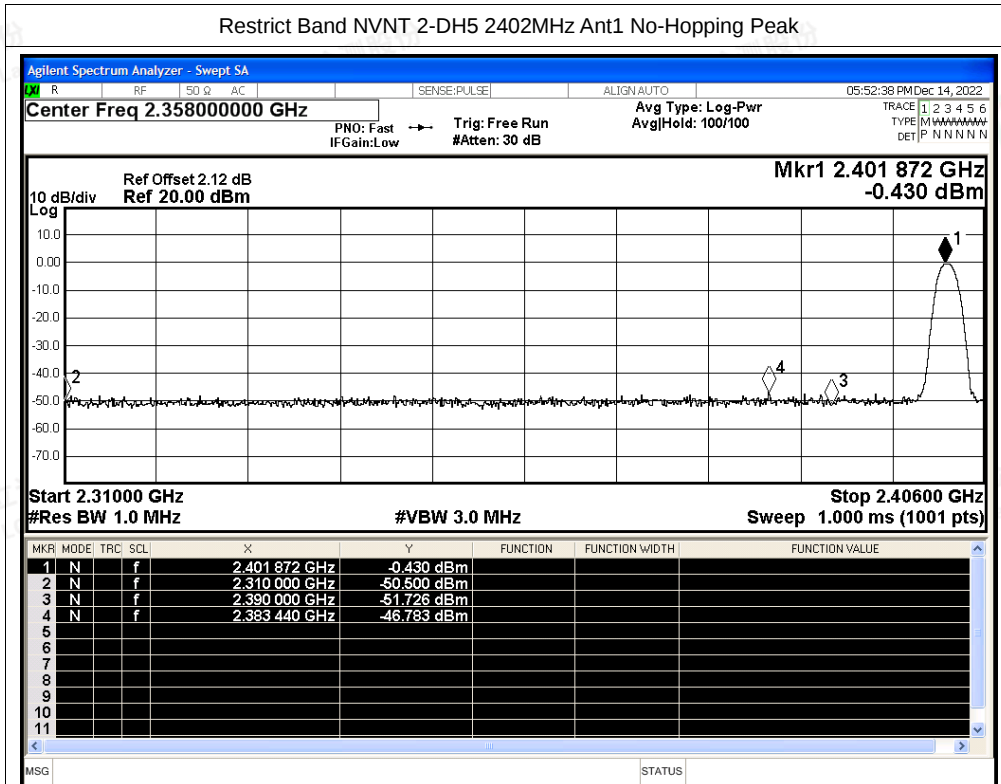


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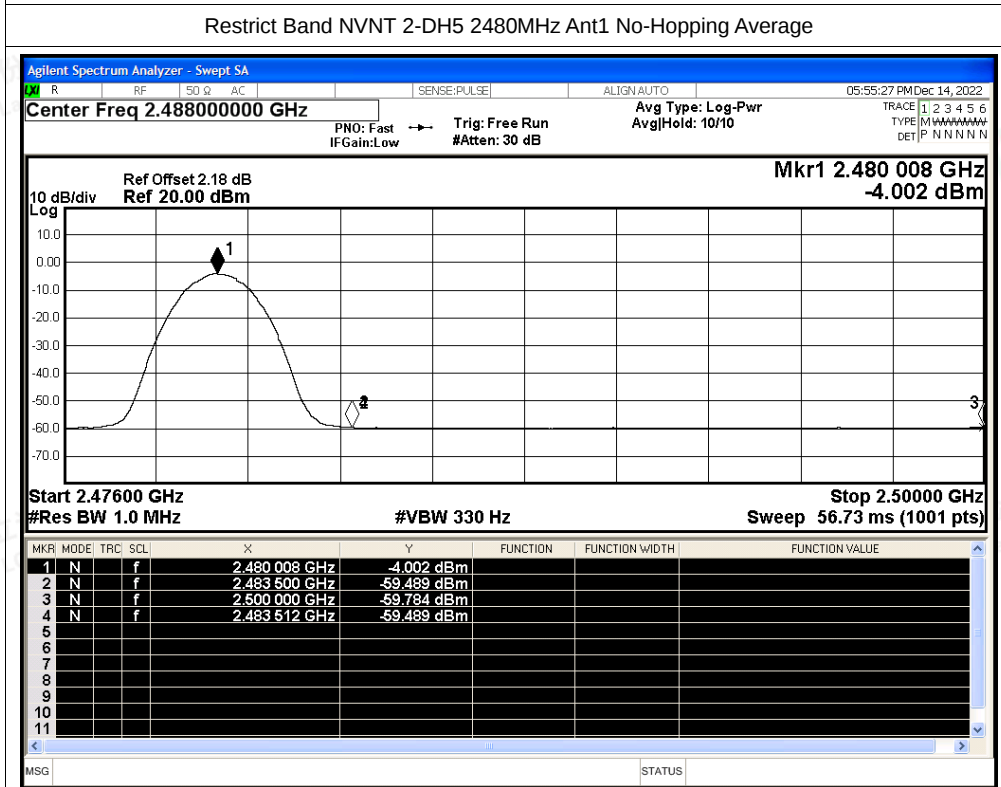
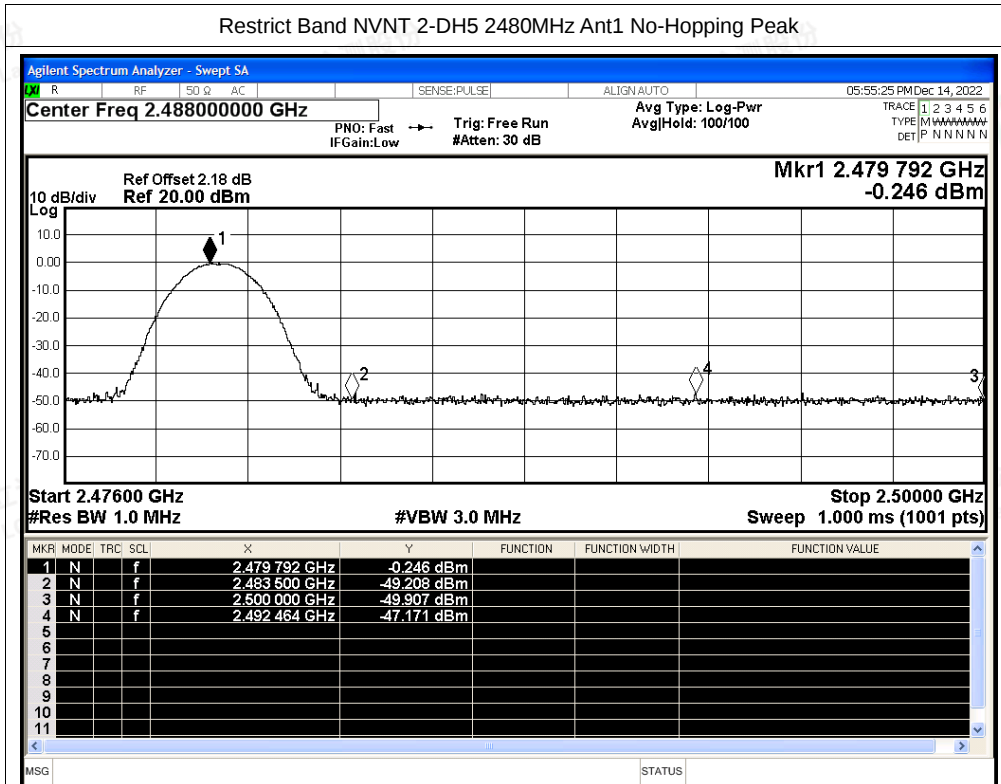


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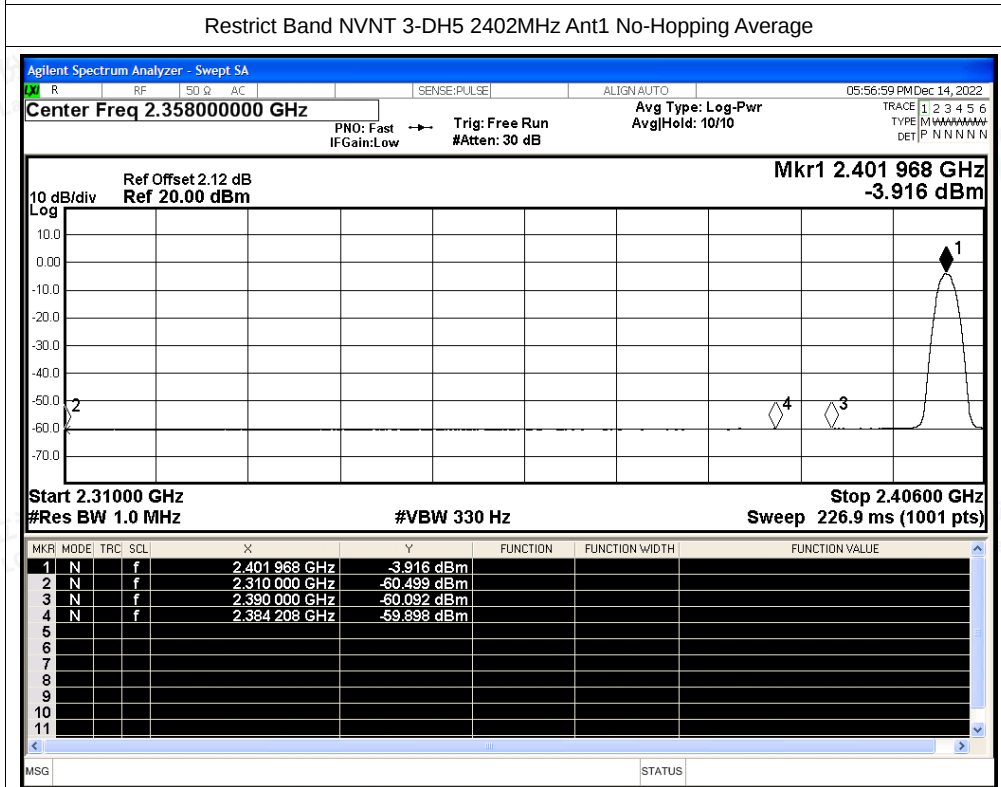
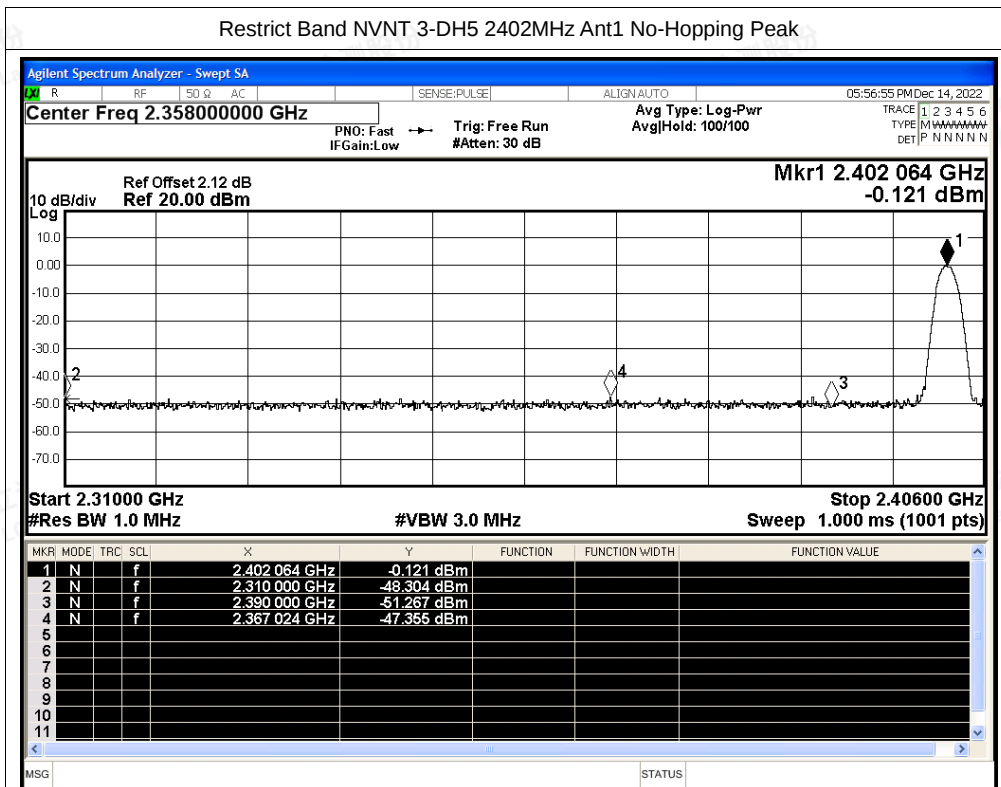


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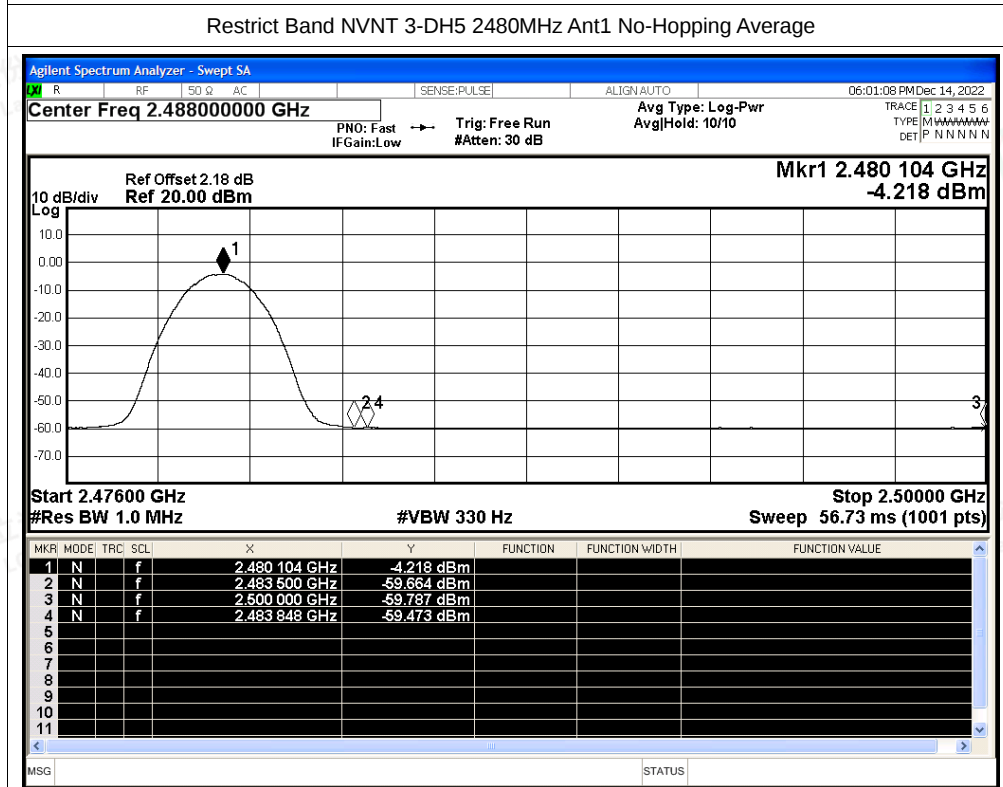
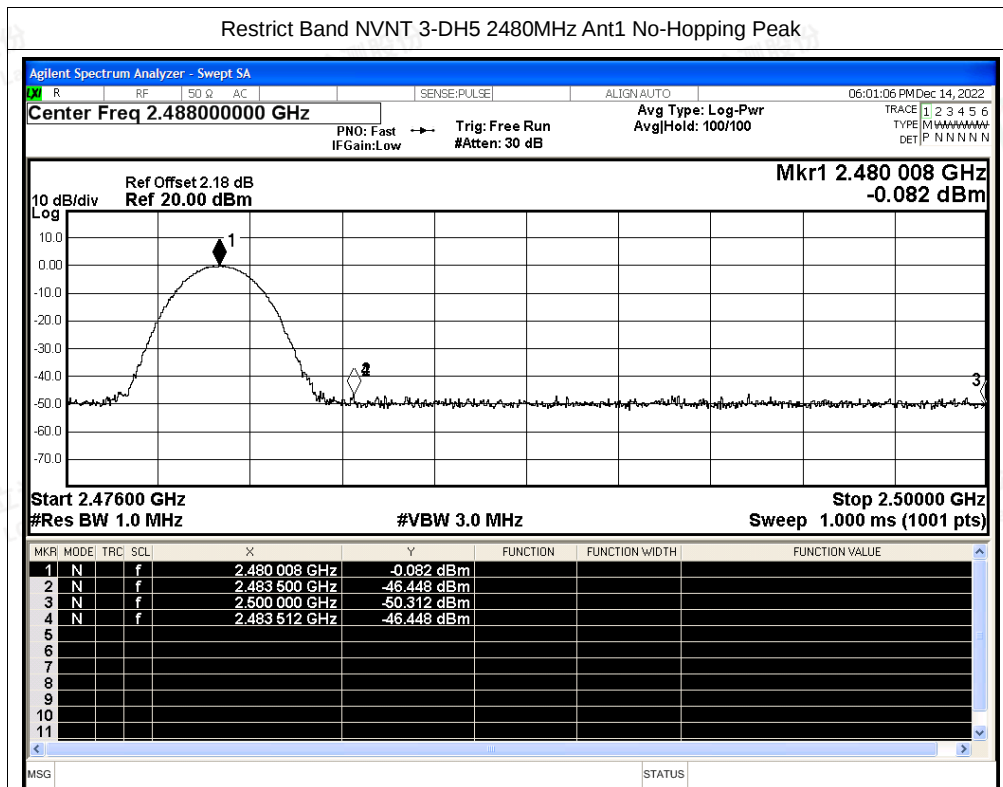


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