



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Audio amplifier

Test Model: carina

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	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	1.015	---	---
NVNT	1-DH5	2441	Ant1	0.998	---	---
NVNT	1-DH5	2480	Ant1	1.023	---	---
NVNT	2-DH5	2402	Ant1	1.284	---	---
NVNT	2-DH5	2441	Ant1	1.326	---	---
NVNT	2-DH5	2480	Ant1	1.313	---	---
NVNT	3-DH5	2402	Ant1	1.302	---	---
NVNT	3-DH5	2441	Ant1	1.3	---	---
NVNT	3-DH5	2480	Ant1	1.31	---	---





Test Graphs

20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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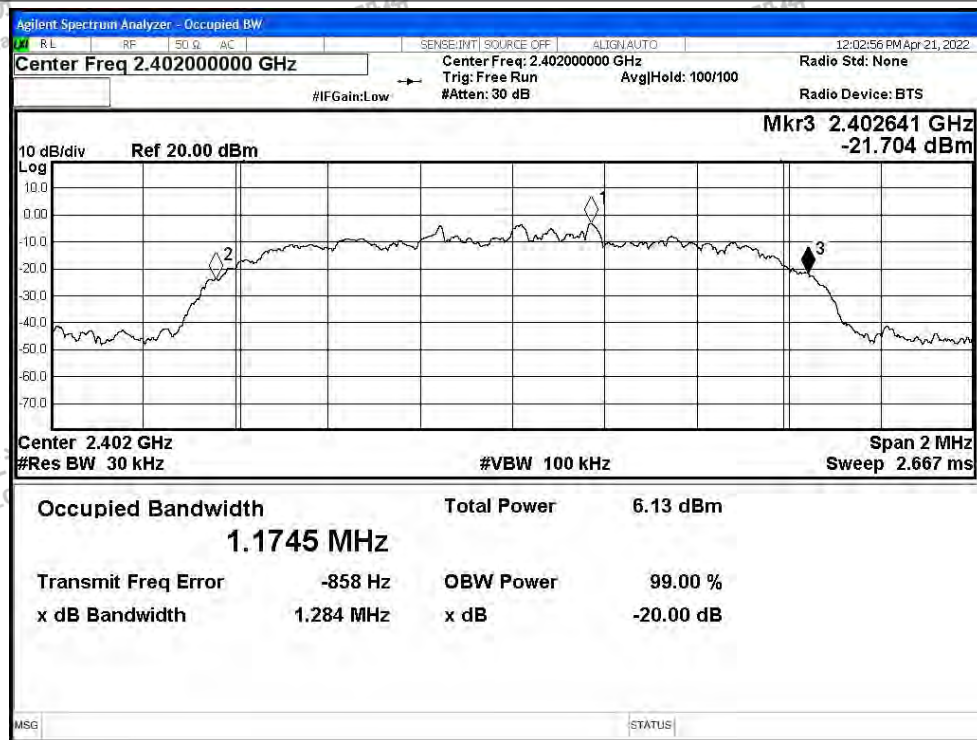
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20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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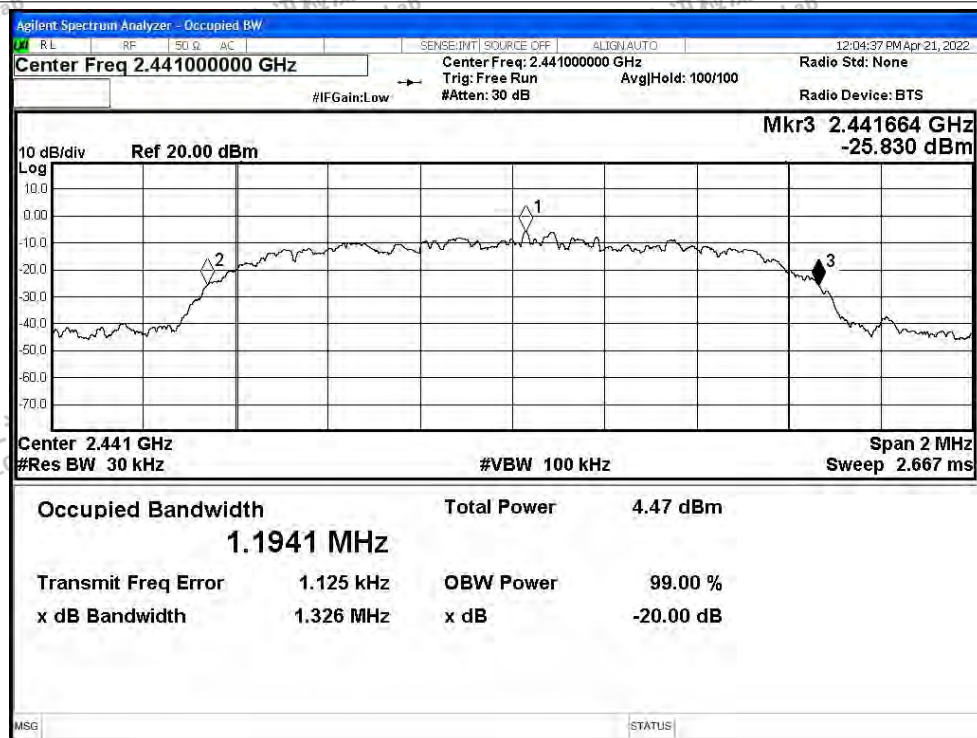
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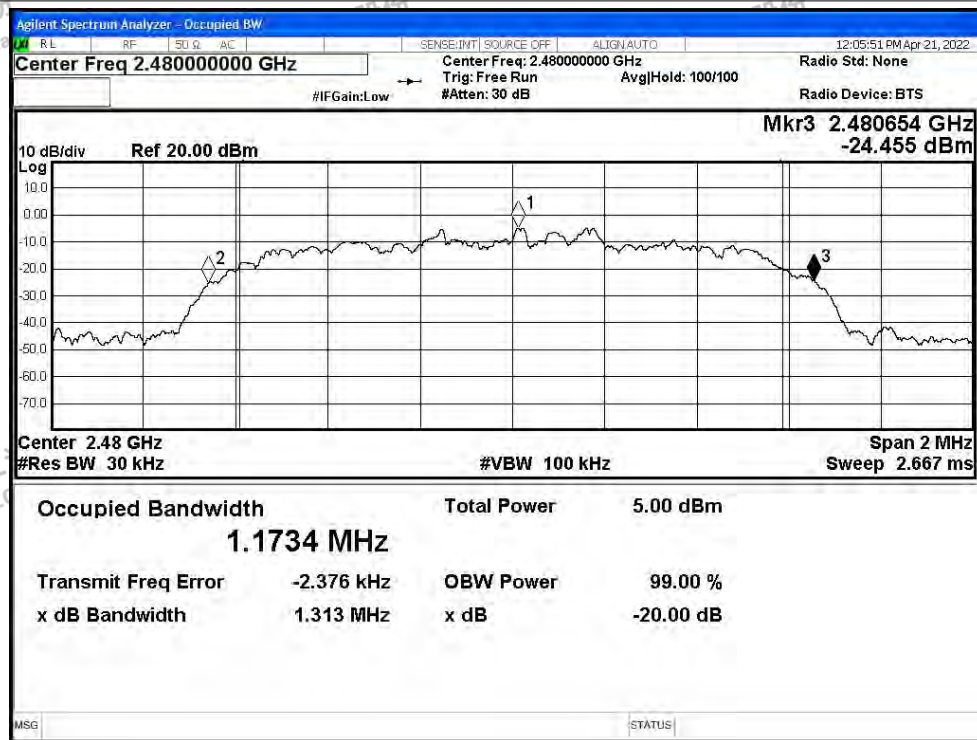
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20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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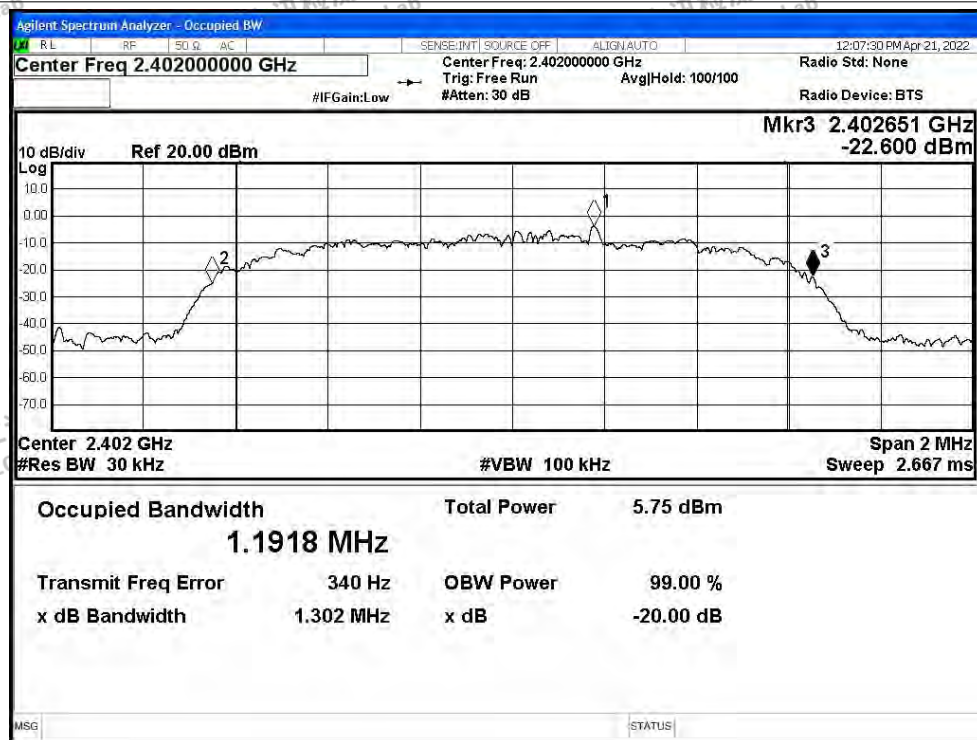
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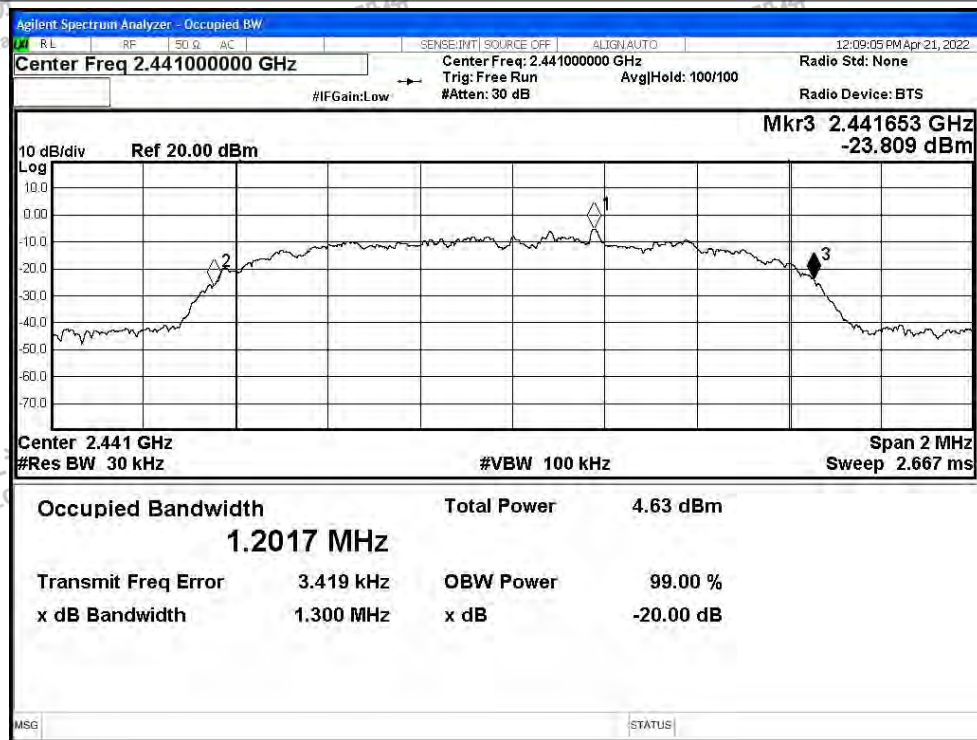
Scan code to check authenticity



20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

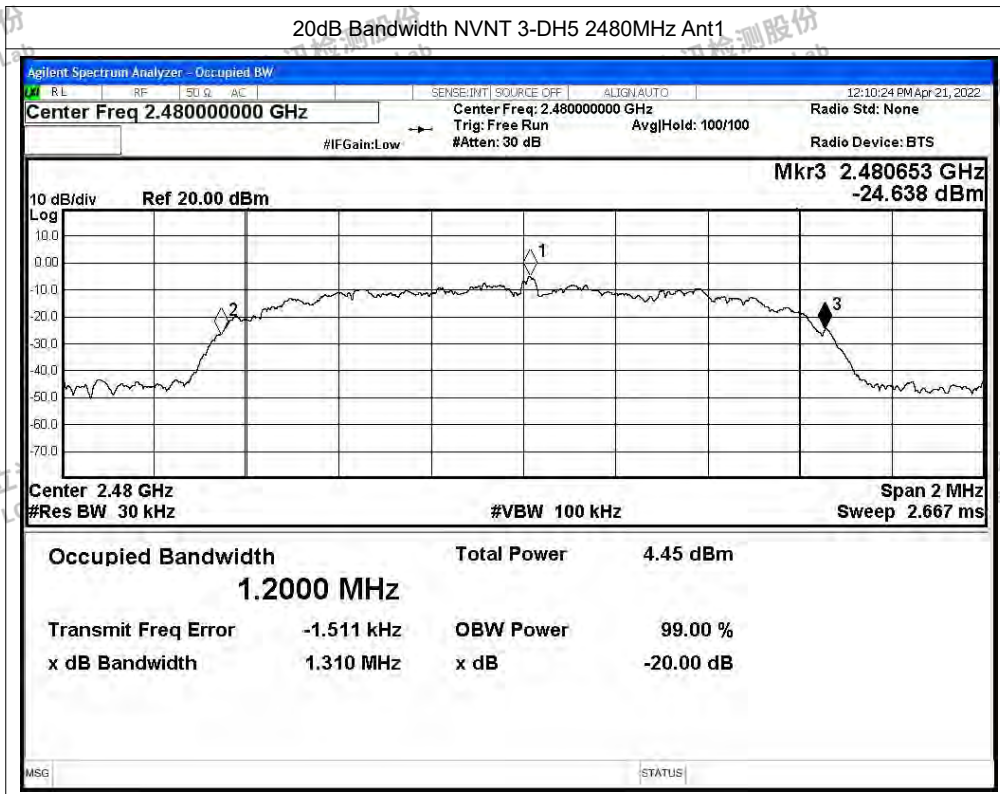


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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	2.1	21	Pass
NVNT	1-DH5	2441	Ant1	0.54	21	Pass
NVNT	1-DH5	2480	Ant1	0.83	21	Pass
NVNT	2-DH5	2402	Ant1	1.13	21	Pass
NVNT	2-DH5	2441	Ant1	-0.09	21	Pass
NVNT	2-DH5	2480	Ant1	-0.03	21	Pass
NVNT	3-DH5	2402	Ant1	1.28	21	Pass
NVNT	3-DH5	2441	Ant1	0.03	21	Pass
NVNT	3-DH5	2480	Ant1	0.18	21	Pass



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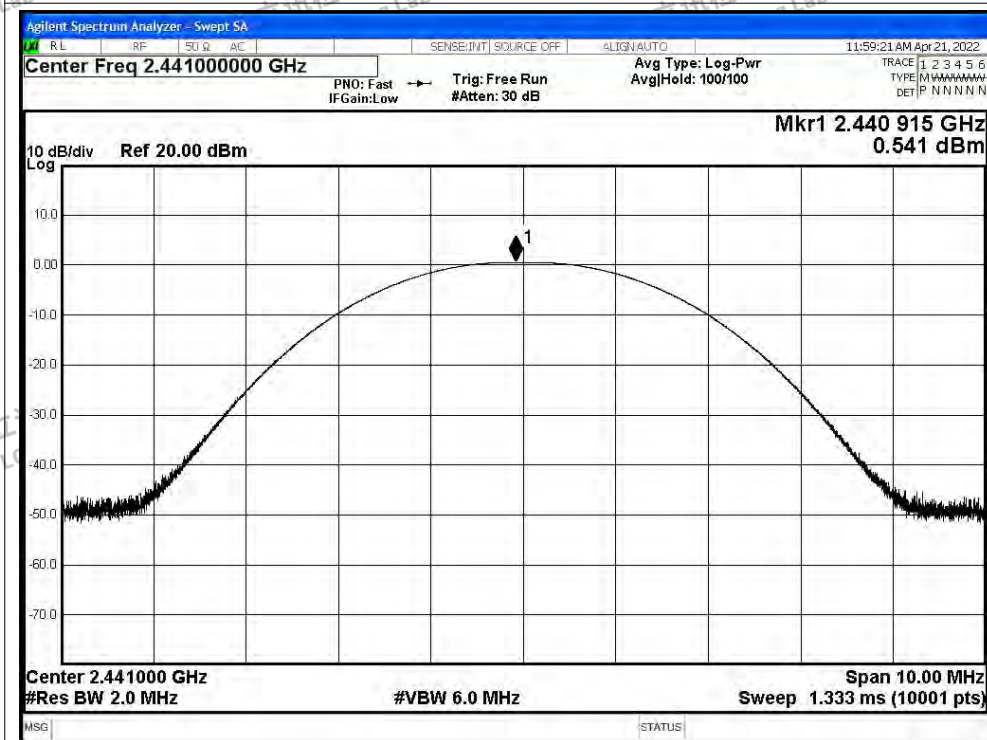


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

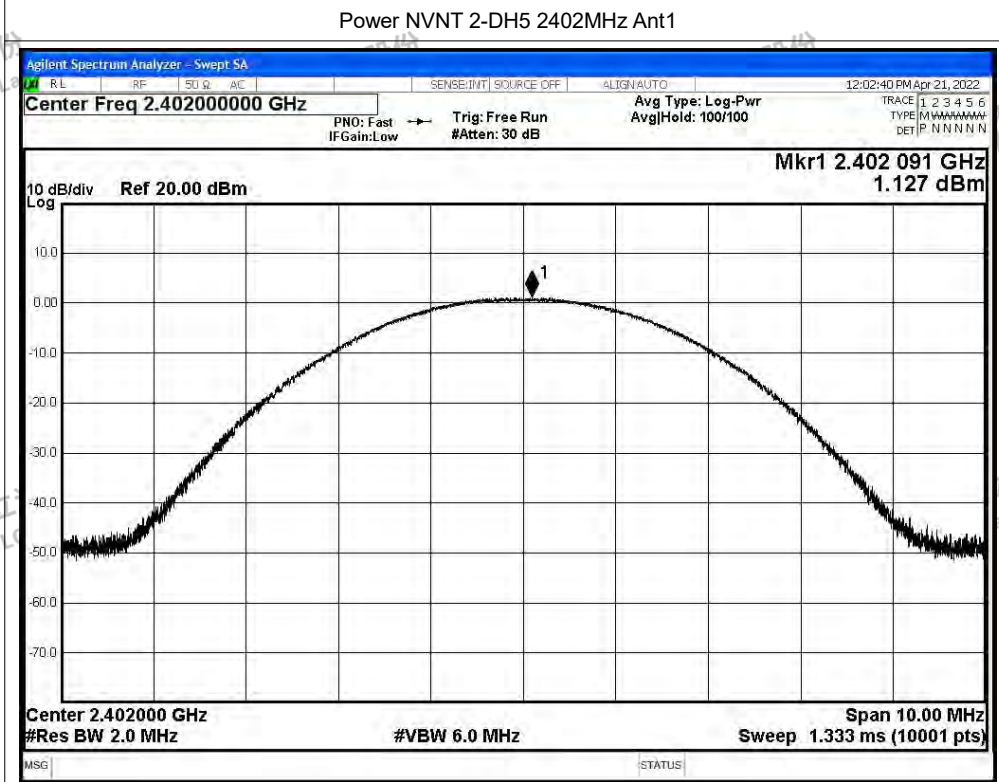
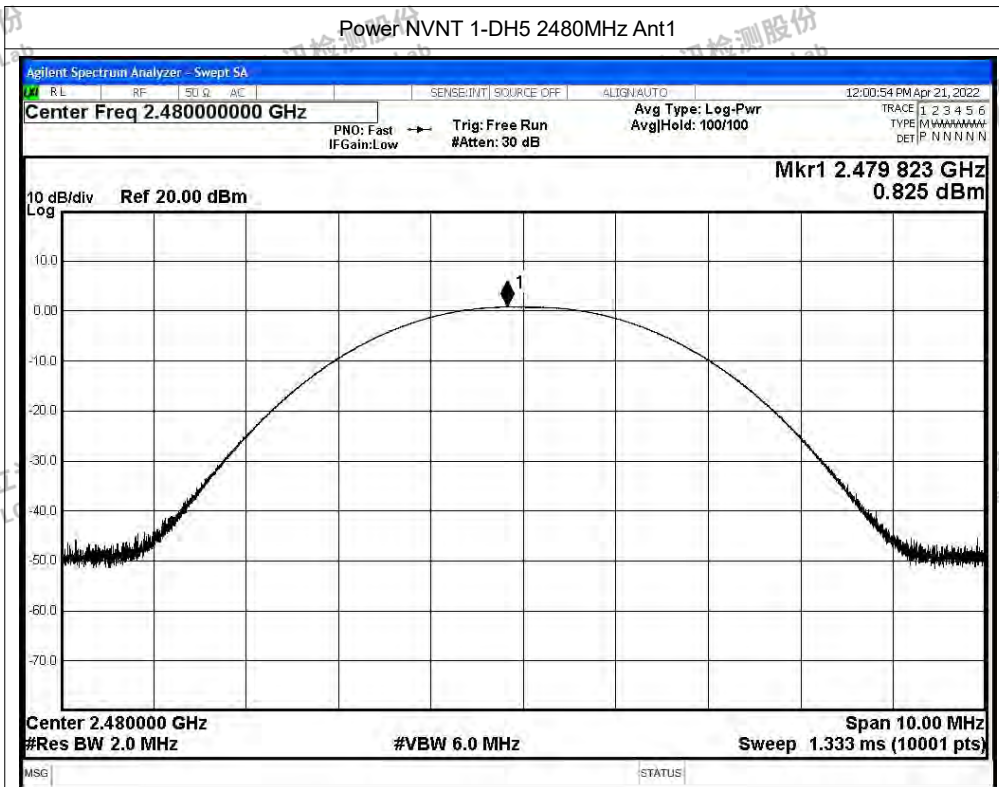


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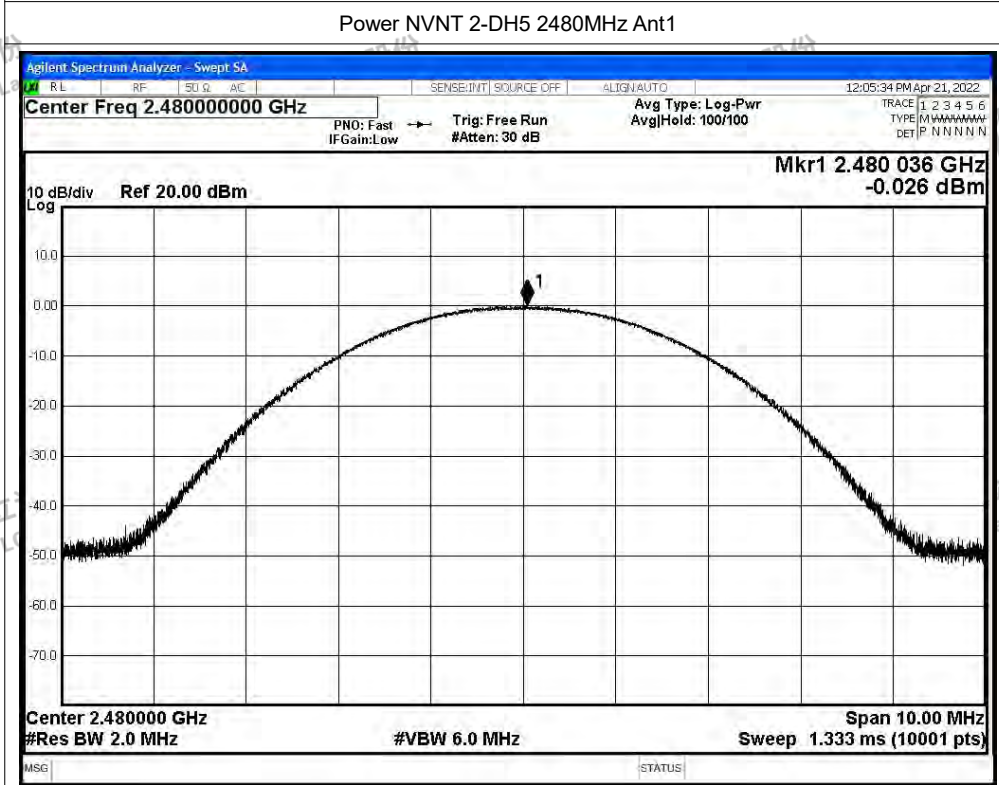
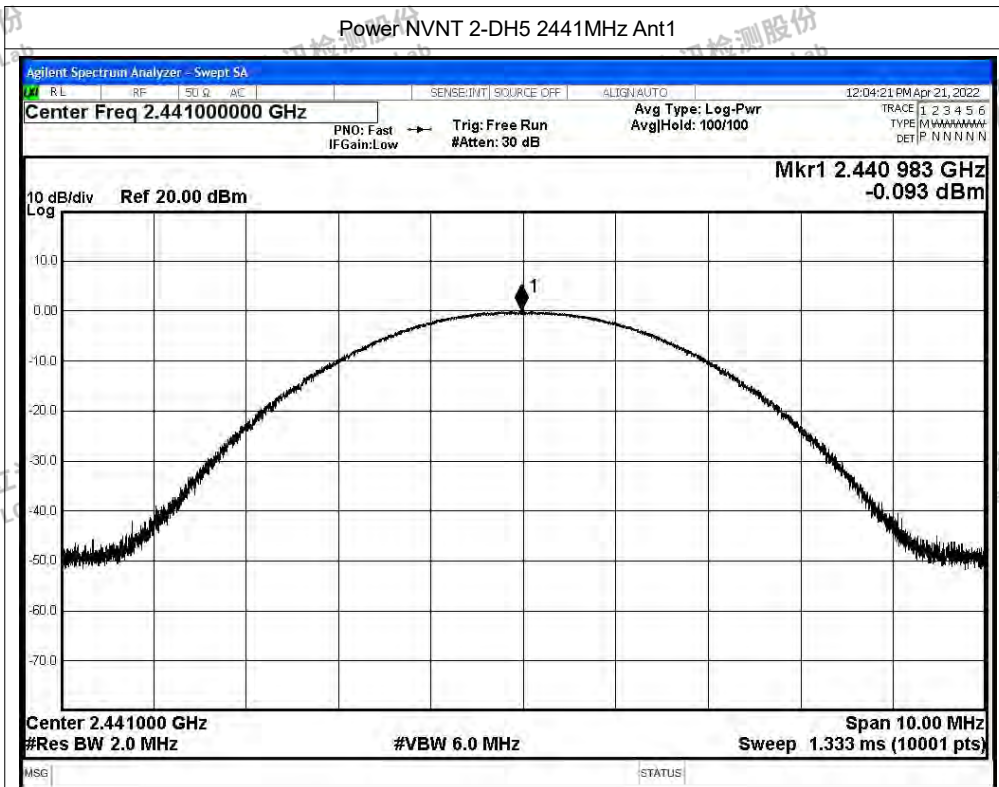


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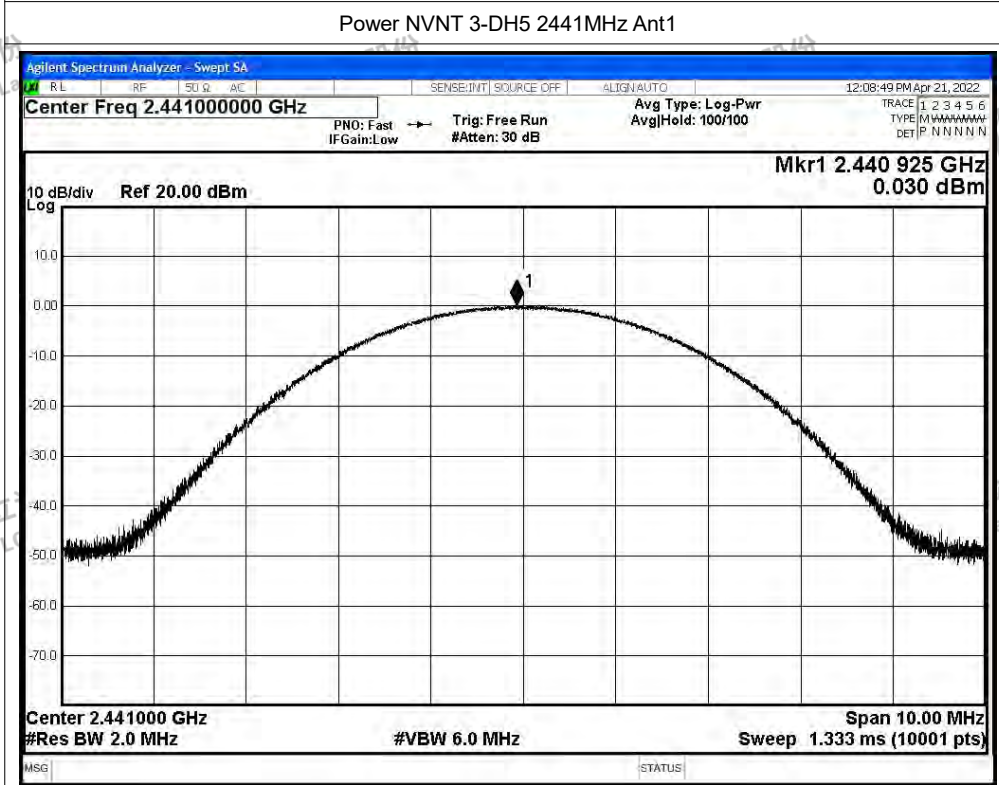
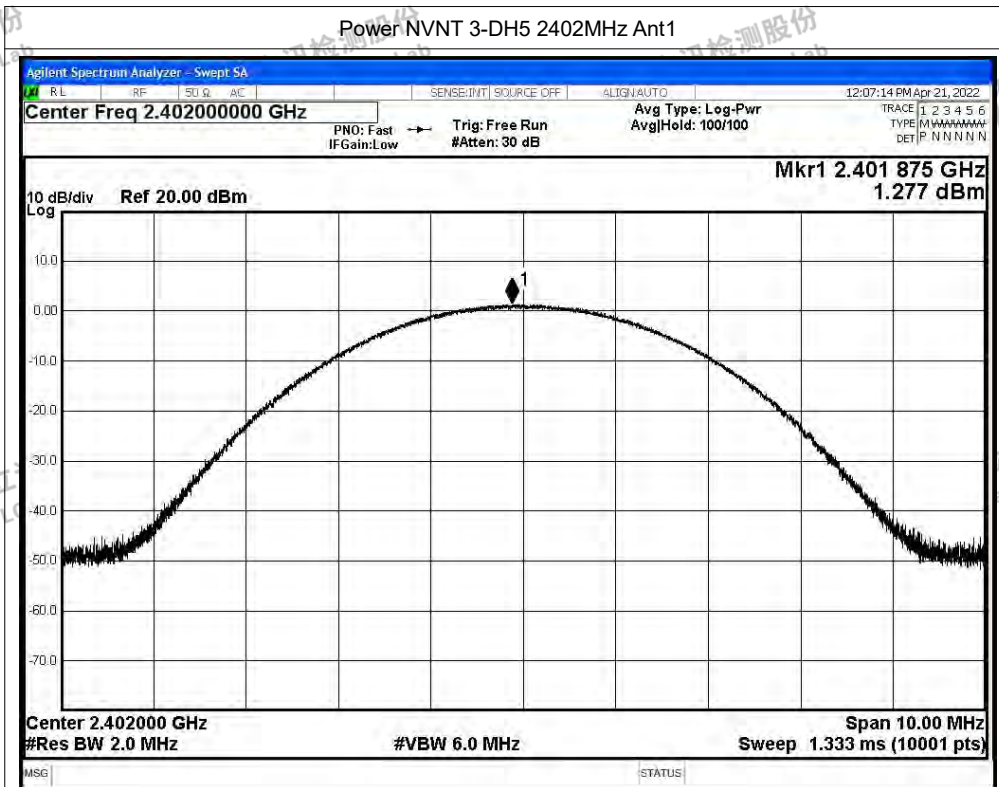


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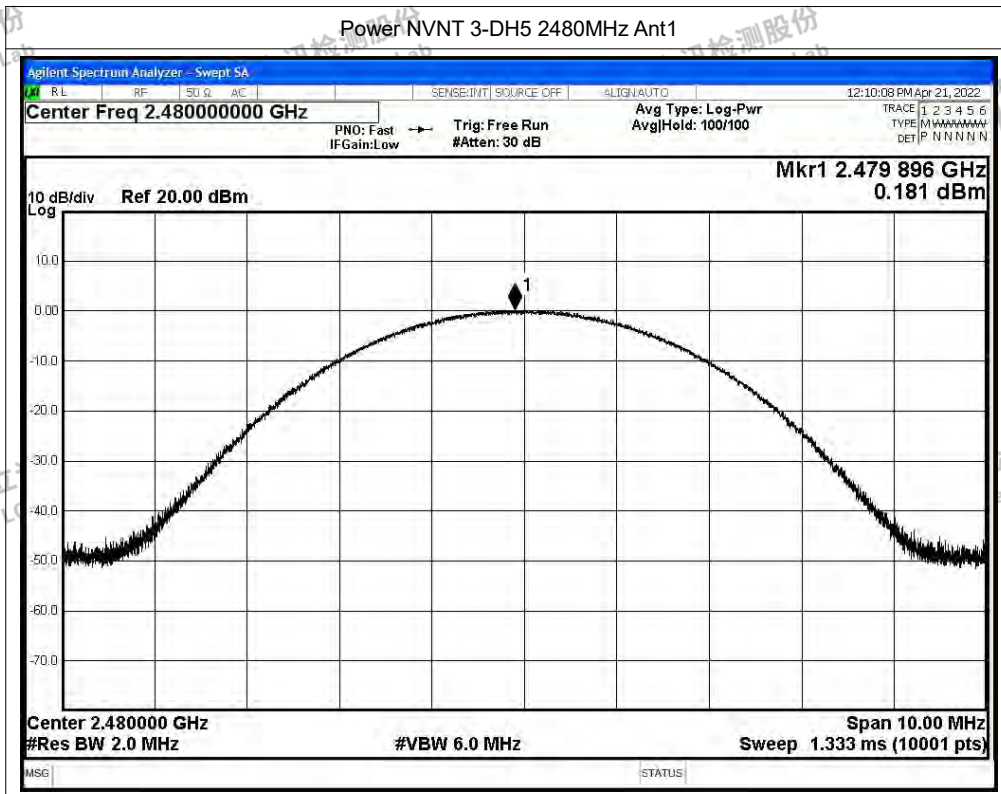


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A.3 Carrier Frequencies Separation

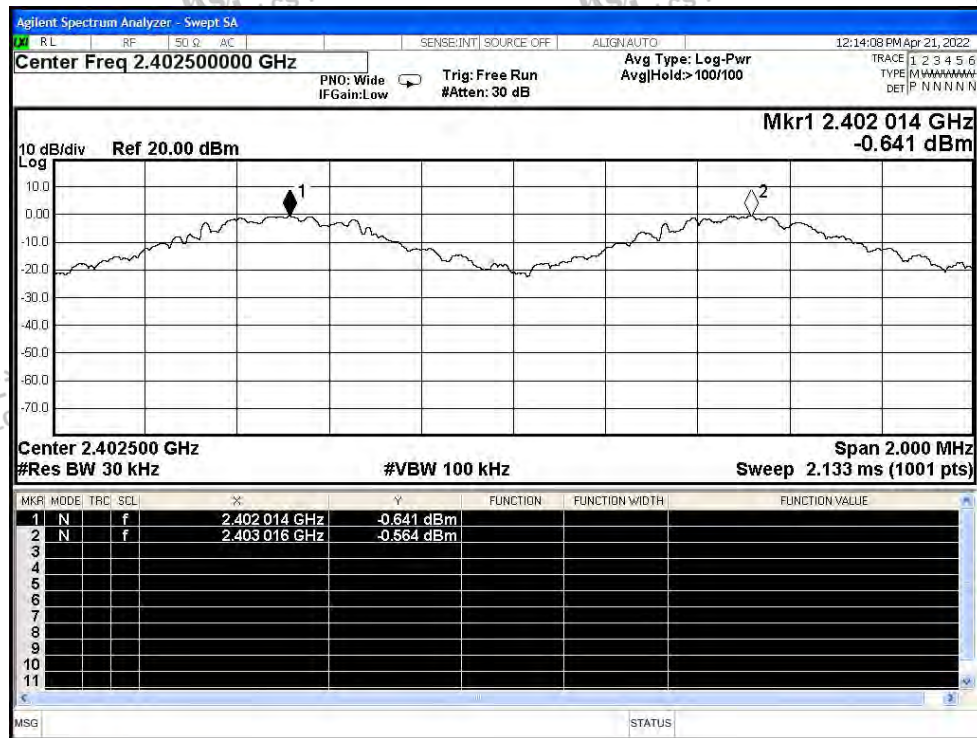
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.014	2403.016	1.002	0.677	Pass
NVNT	2-DH5	Ant1	2402.164	2403.164	1	0.856	Pass
NVNT	3-DH5	Ant1	2402.162	2403.16	0.998	0.868	Pass



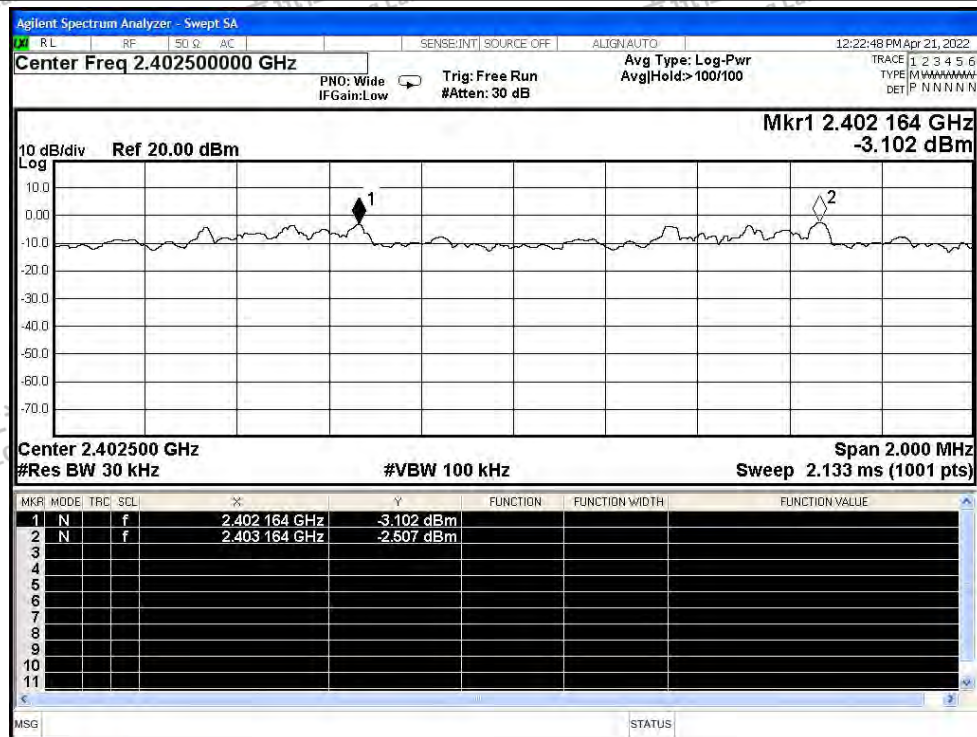


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

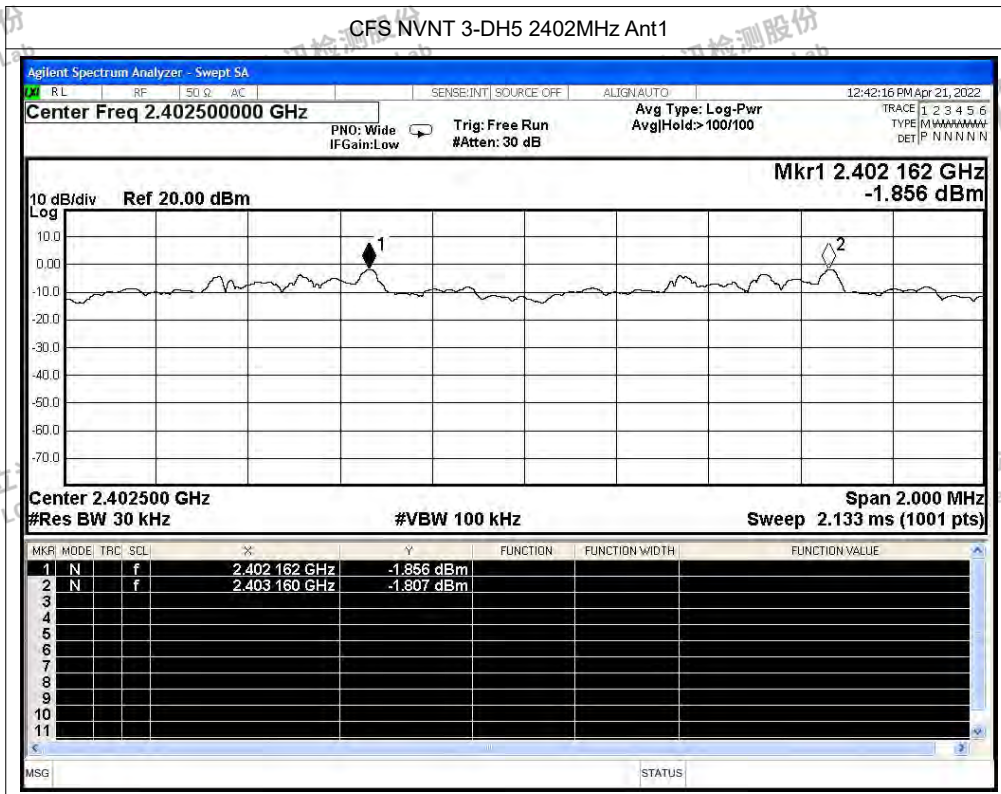


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A.4 Dwell Time

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	296.846	103	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.882	314.138	109	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.882	322.784	112	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	311.58	108	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.88	293.76	102	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.882	308.374	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	329.118	114	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	311.796	108	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	329.118	114	31600	400	Pass



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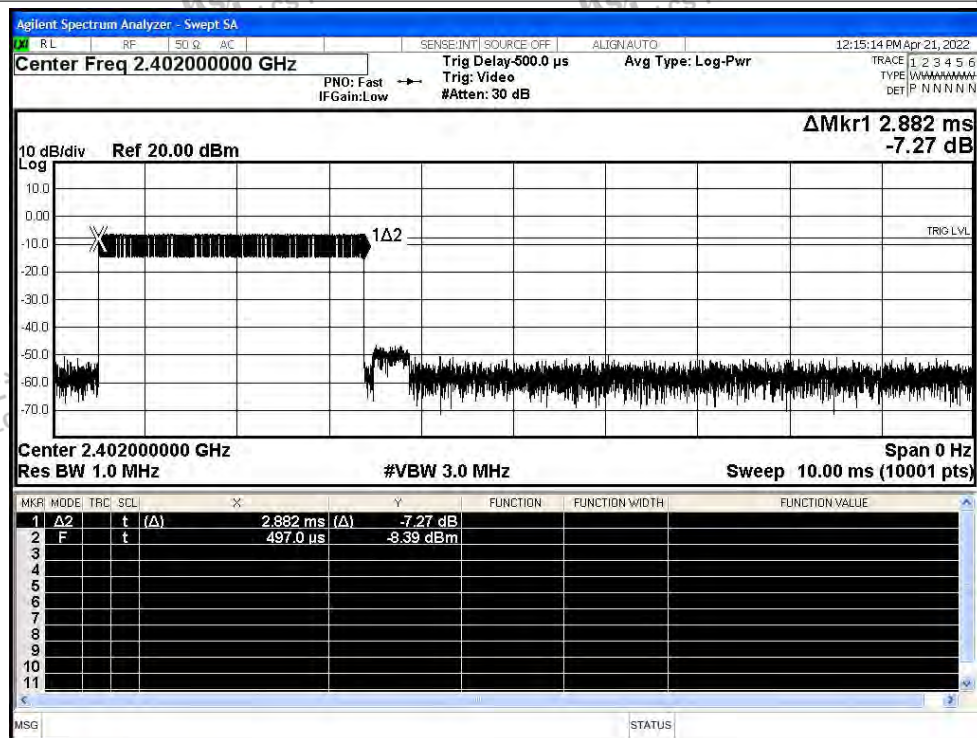
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Scan code to check authenticity

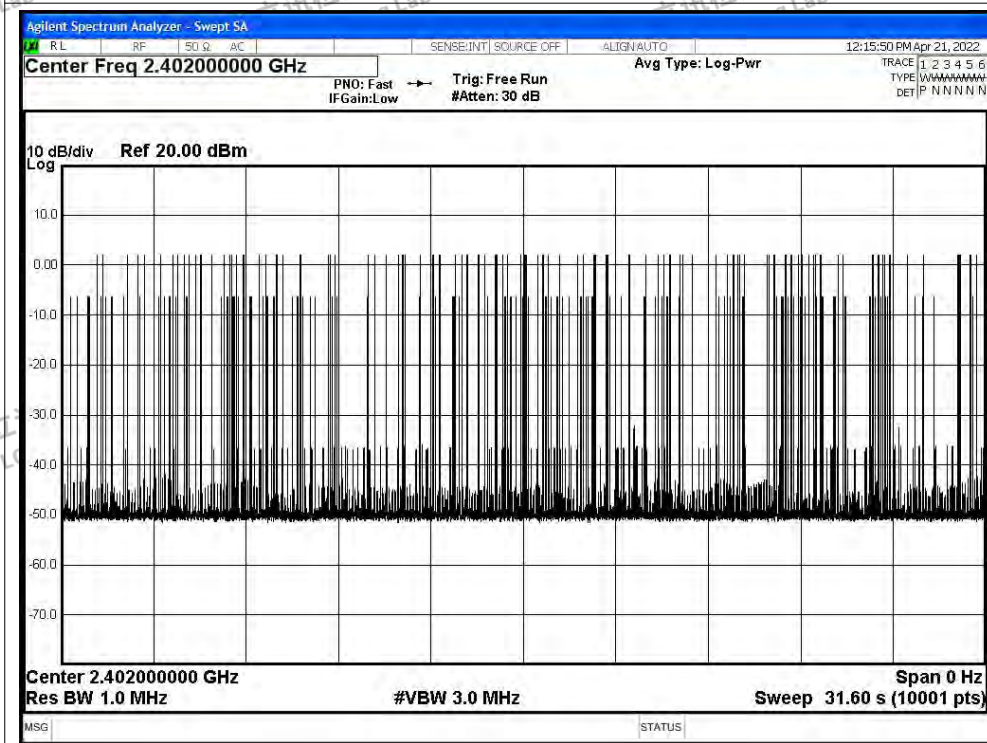


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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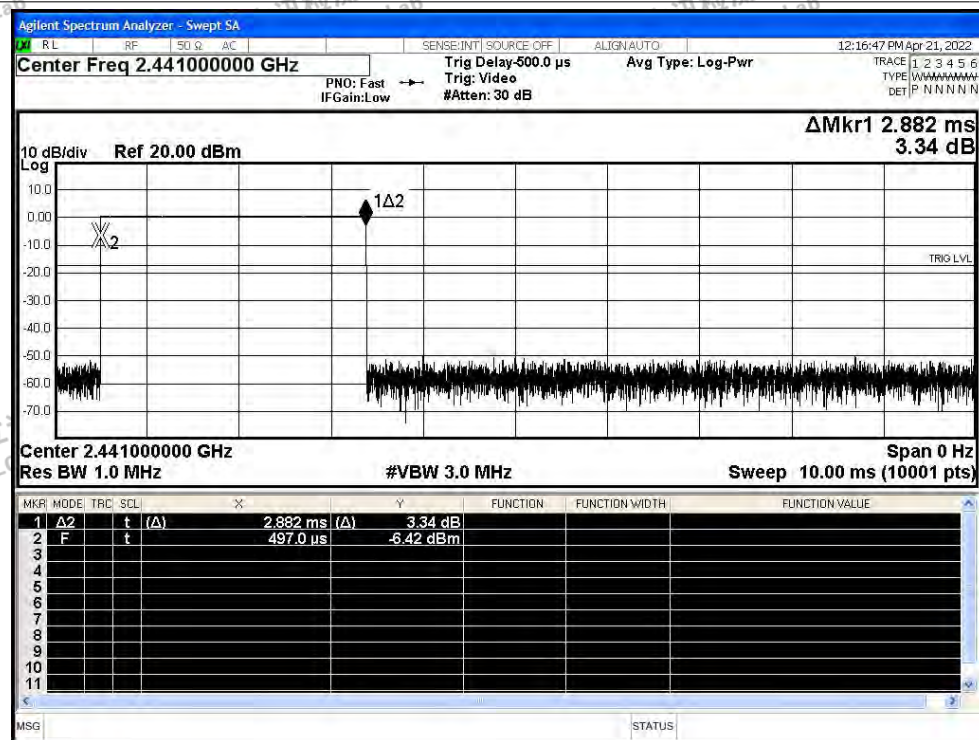
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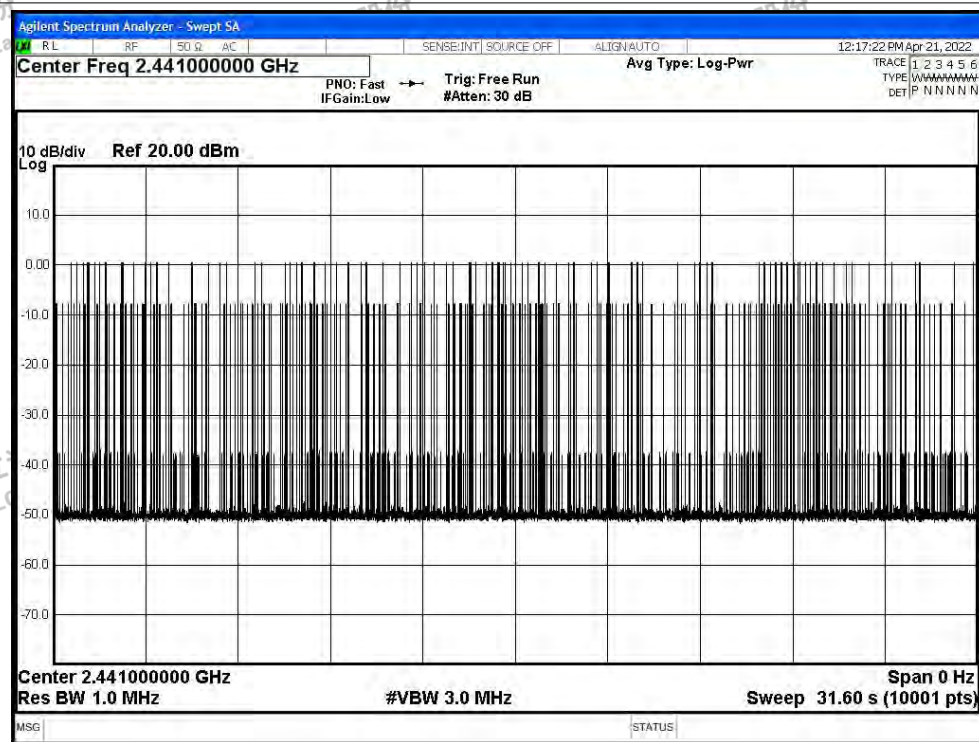
Scan code to check authenticity



Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



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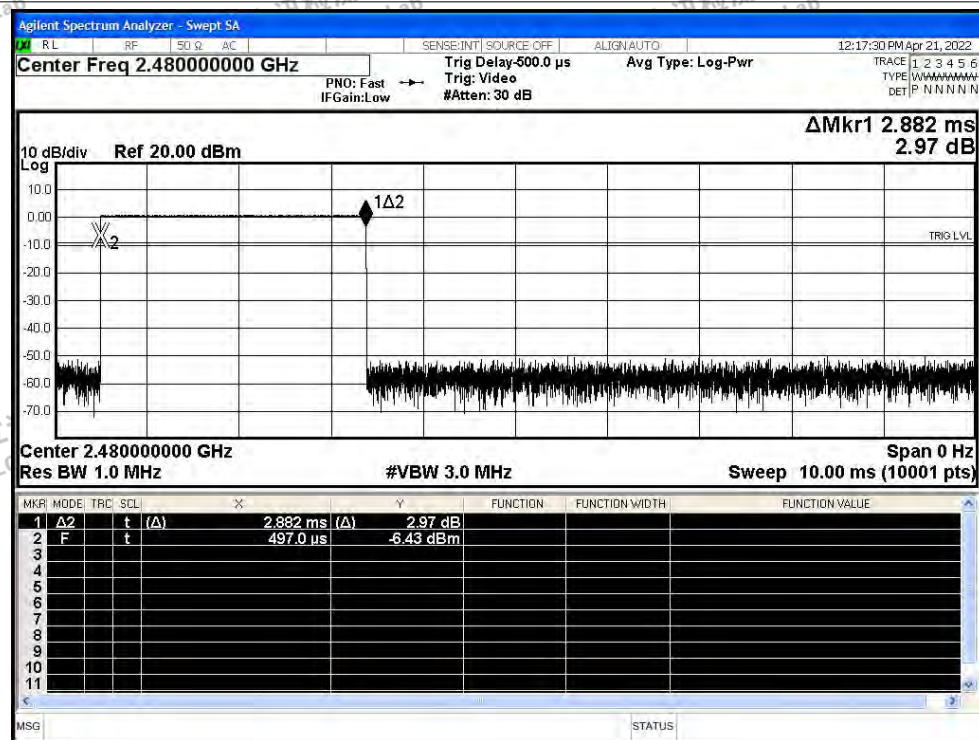
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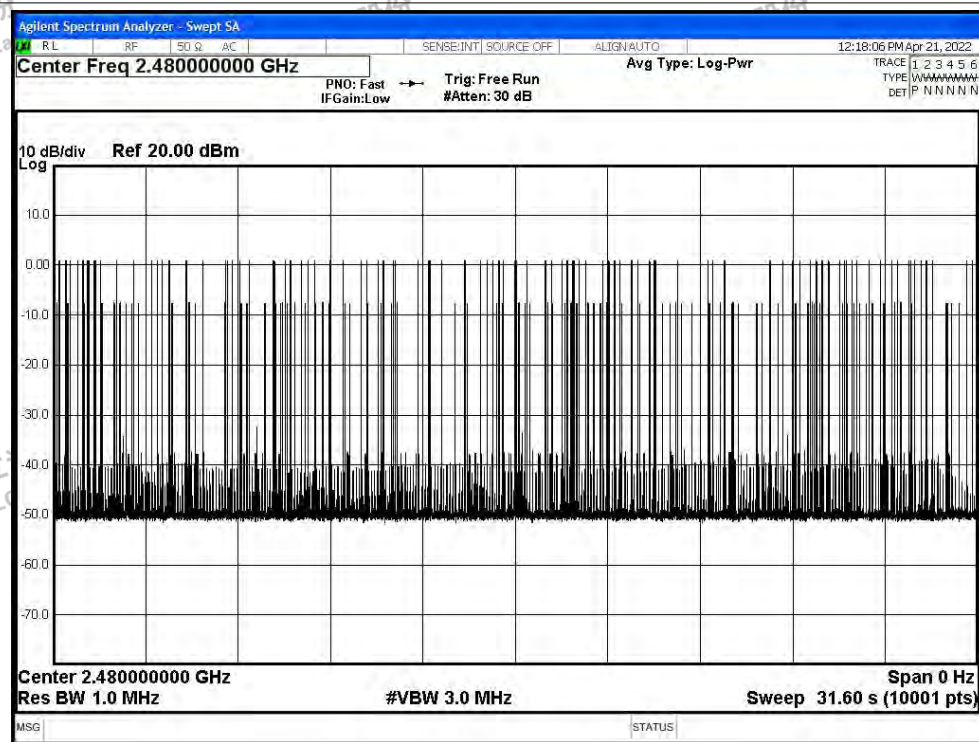
Scan code to check authenticity



Dwell NVNT 1-DH5 2480MHz Ant1 One Burst



Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated



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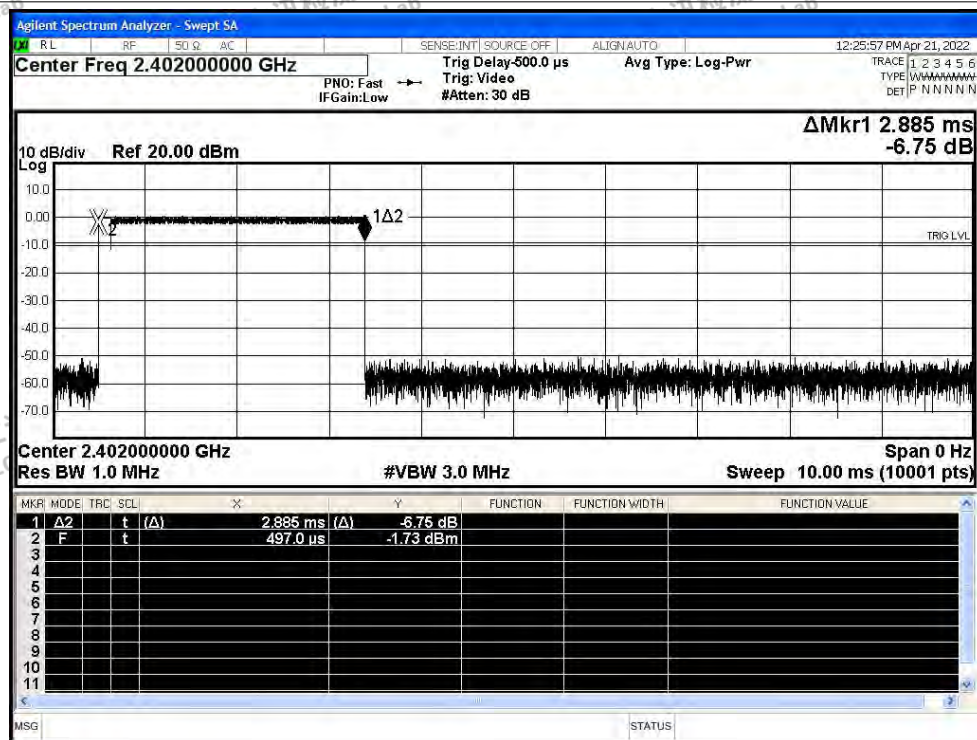
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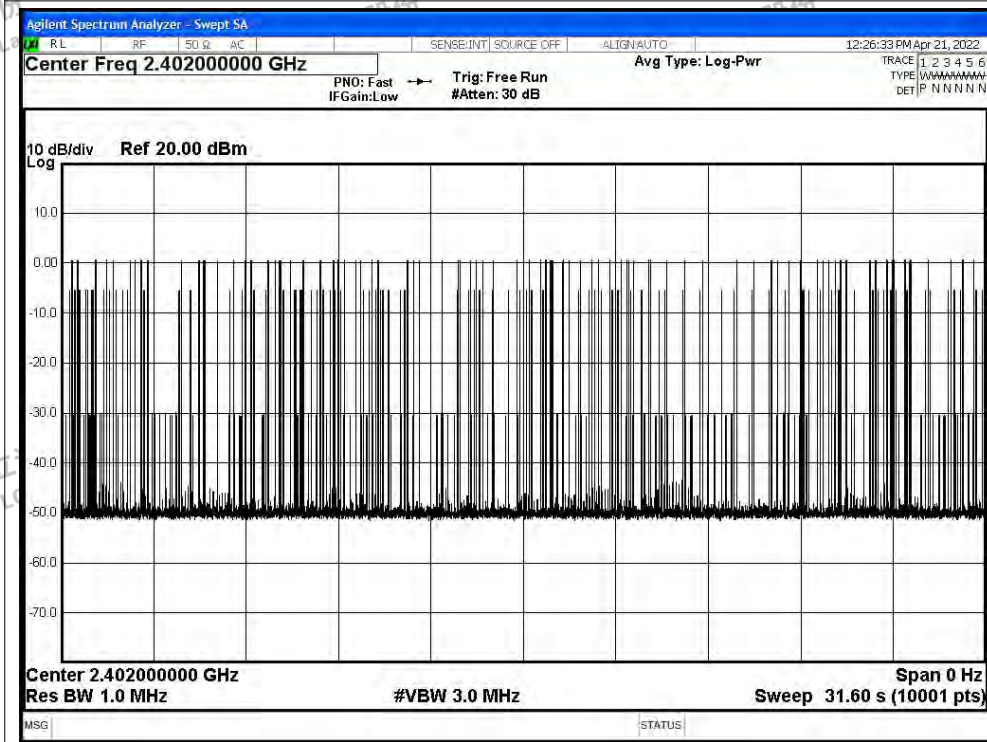
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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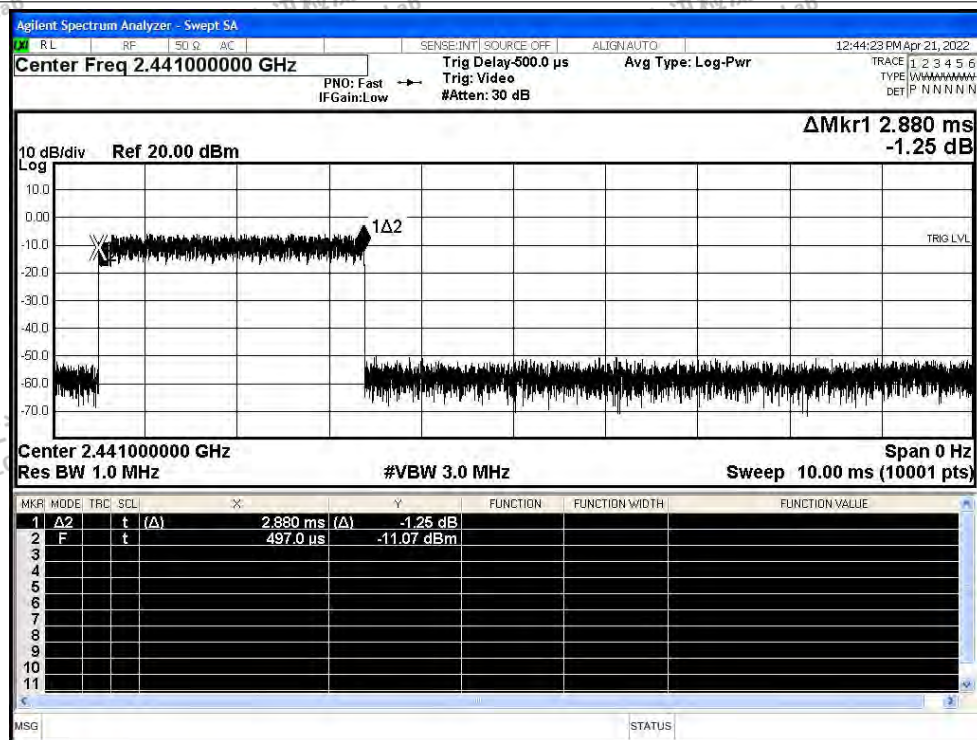
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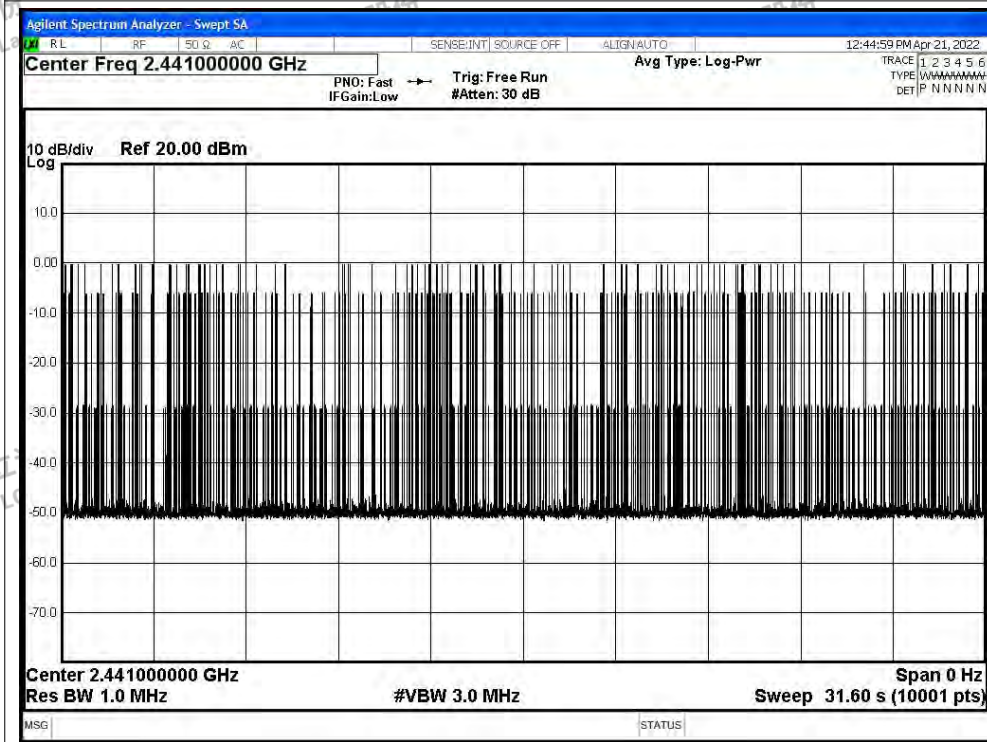
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Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

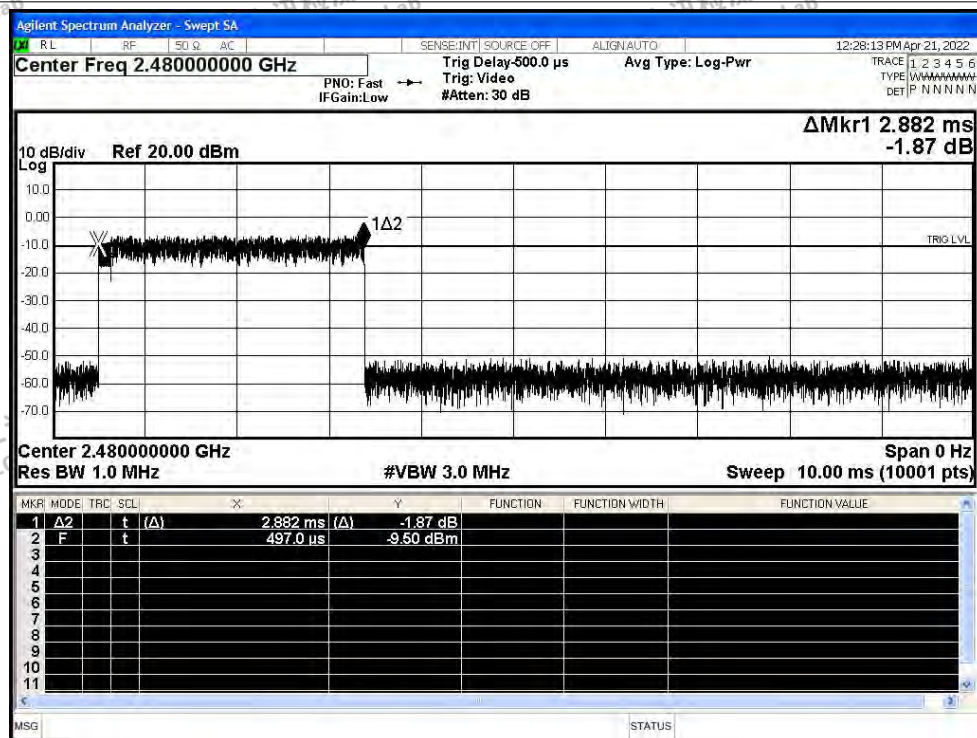
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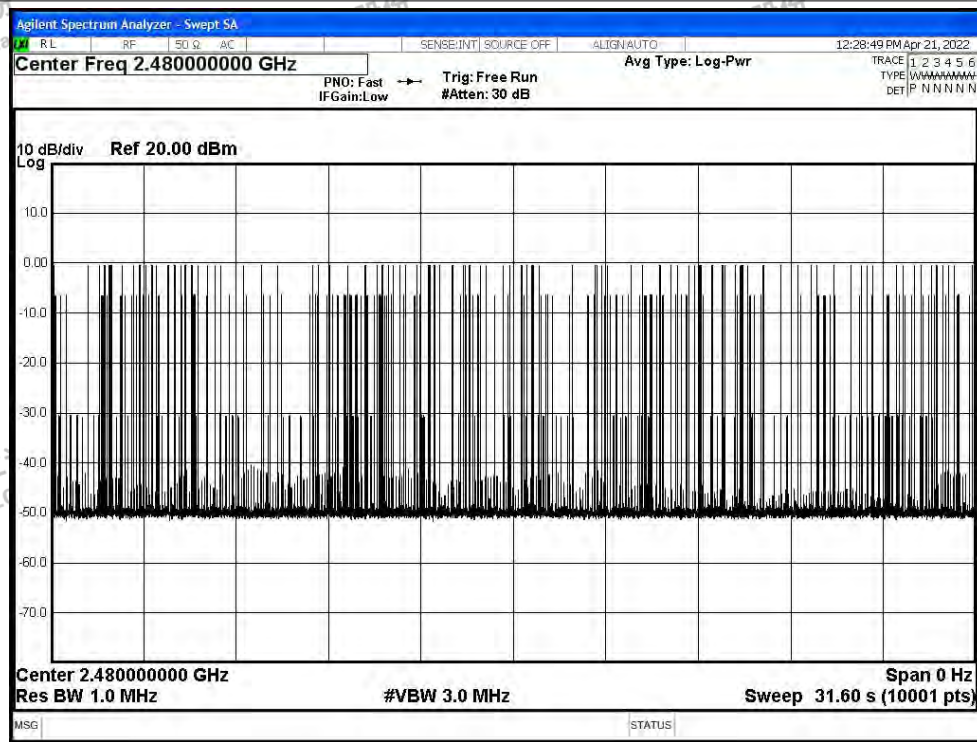
Scan code to check authenticity



Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated

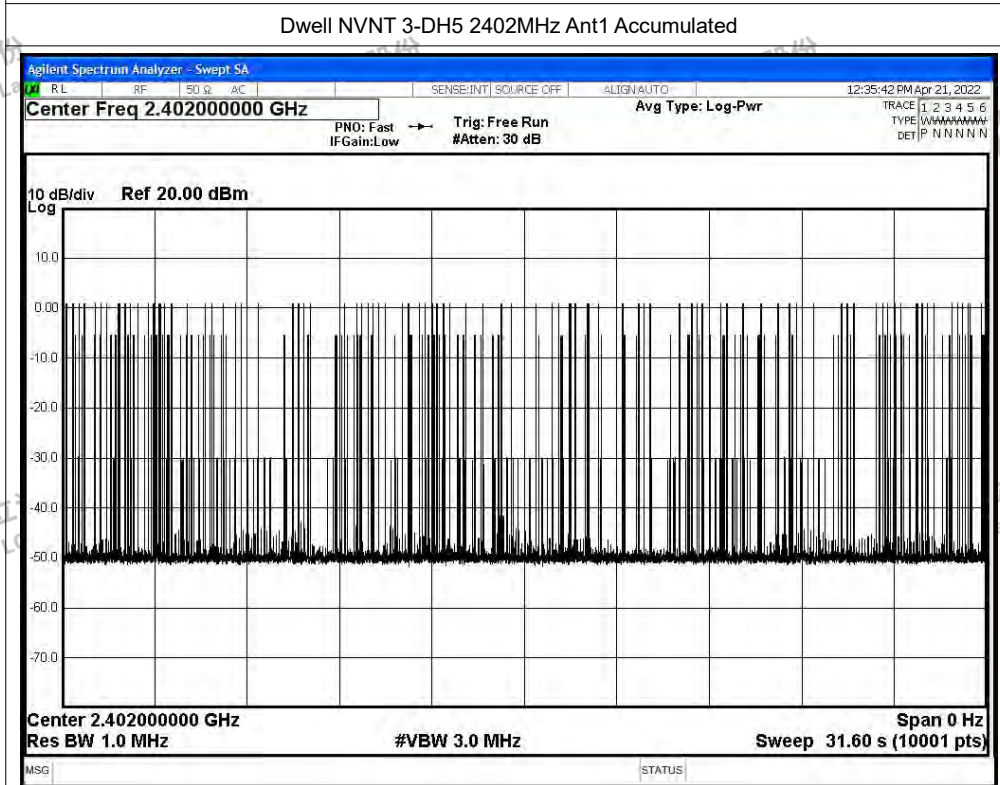
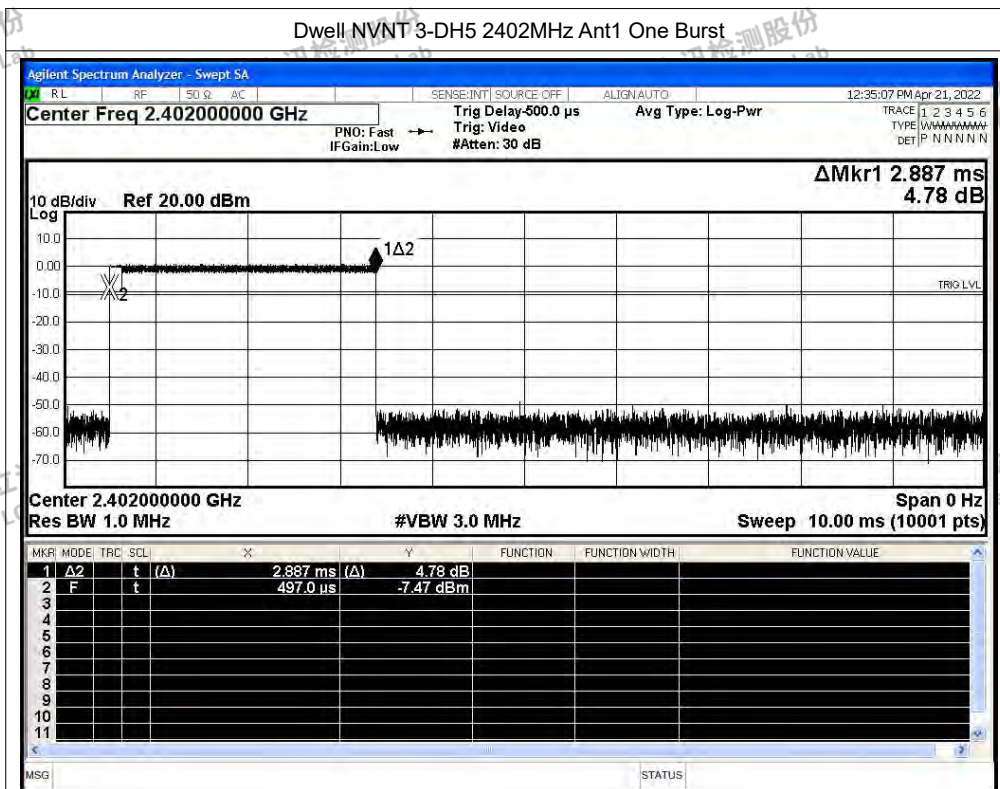


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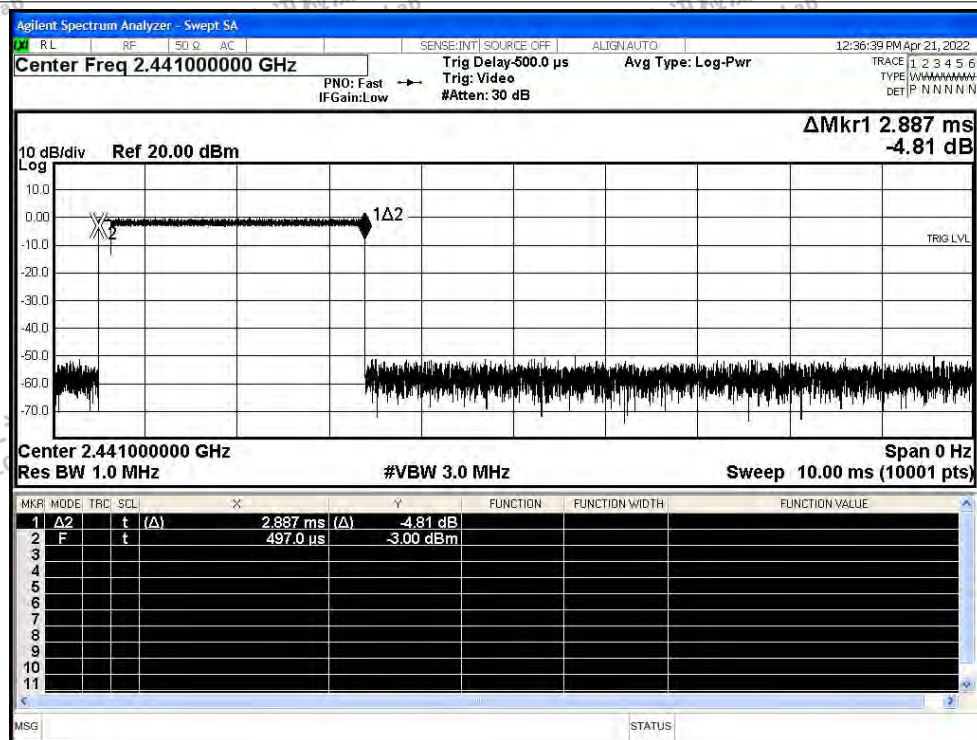
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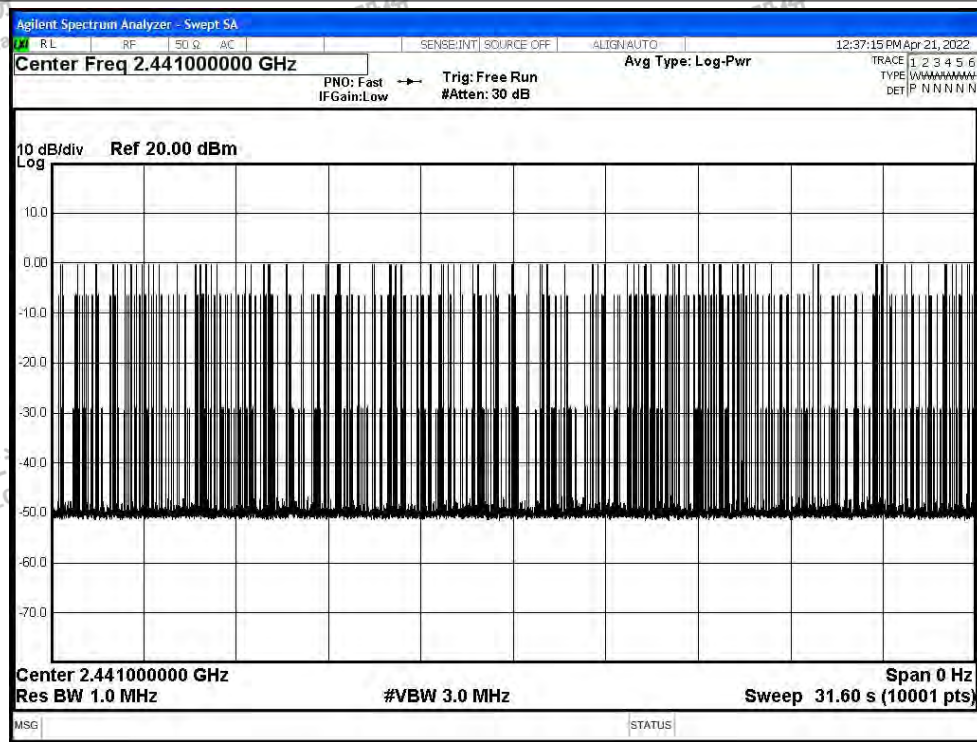
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Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



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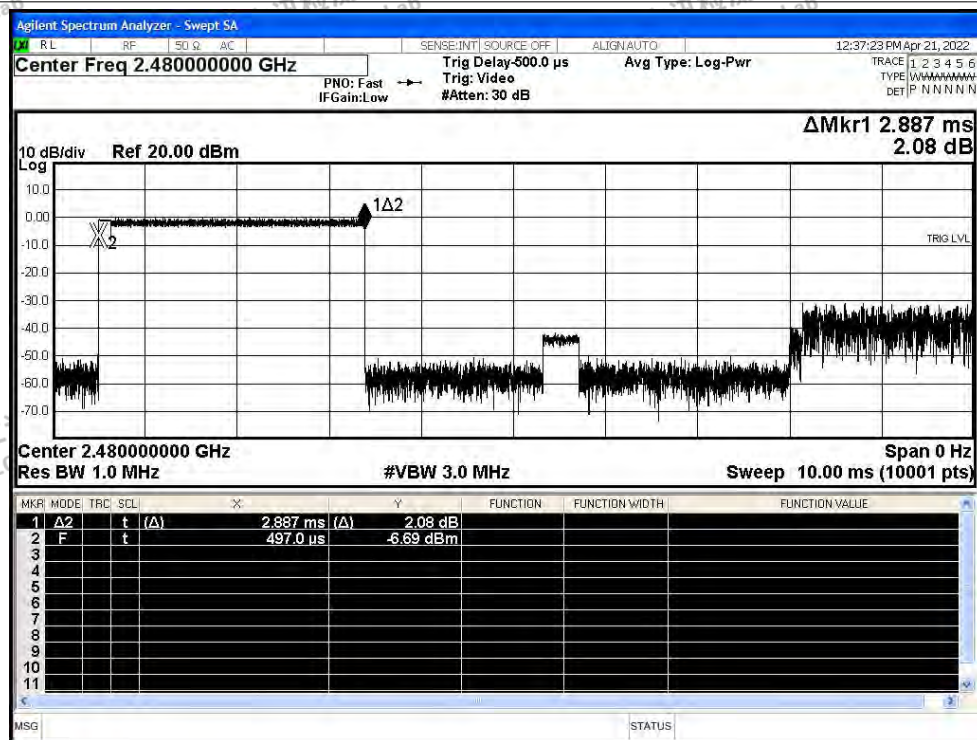
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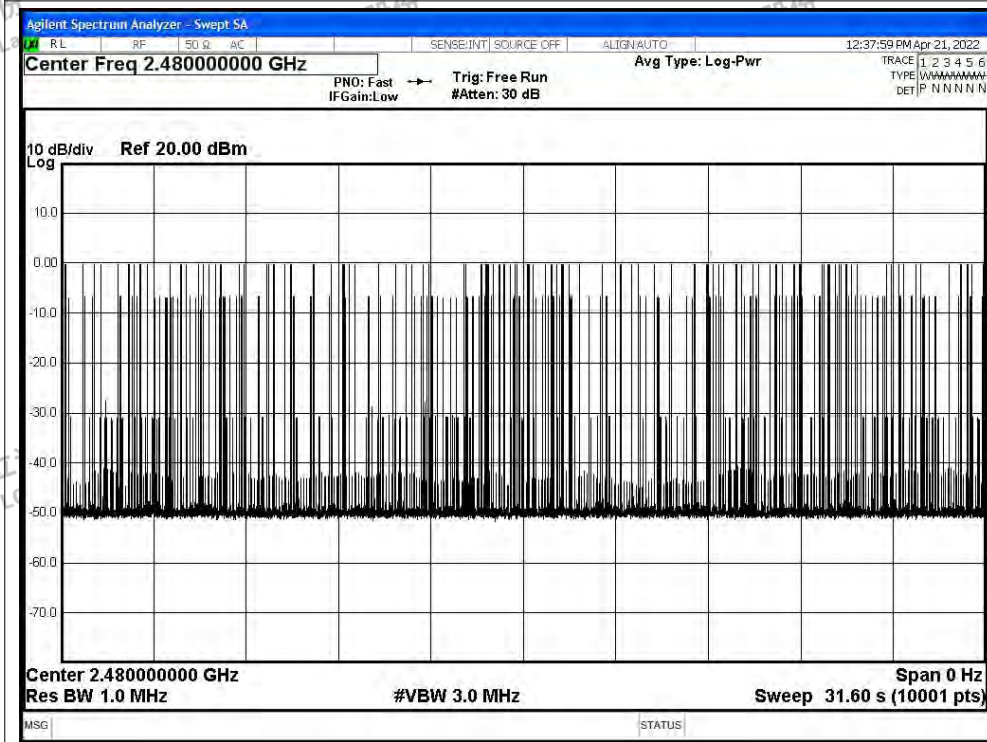
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Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz 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



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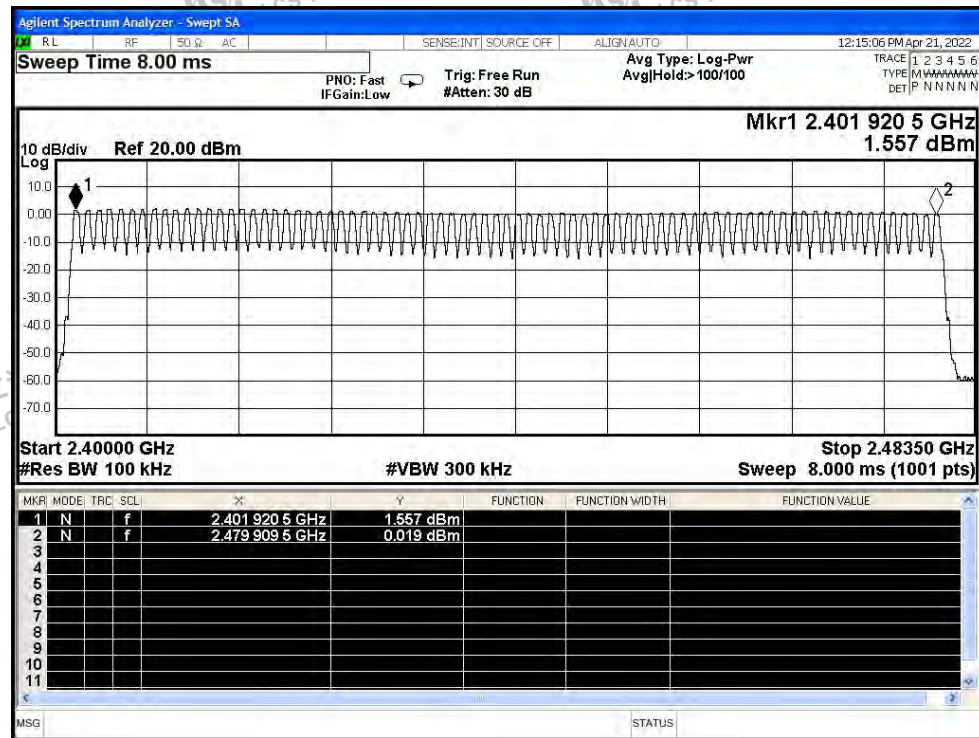
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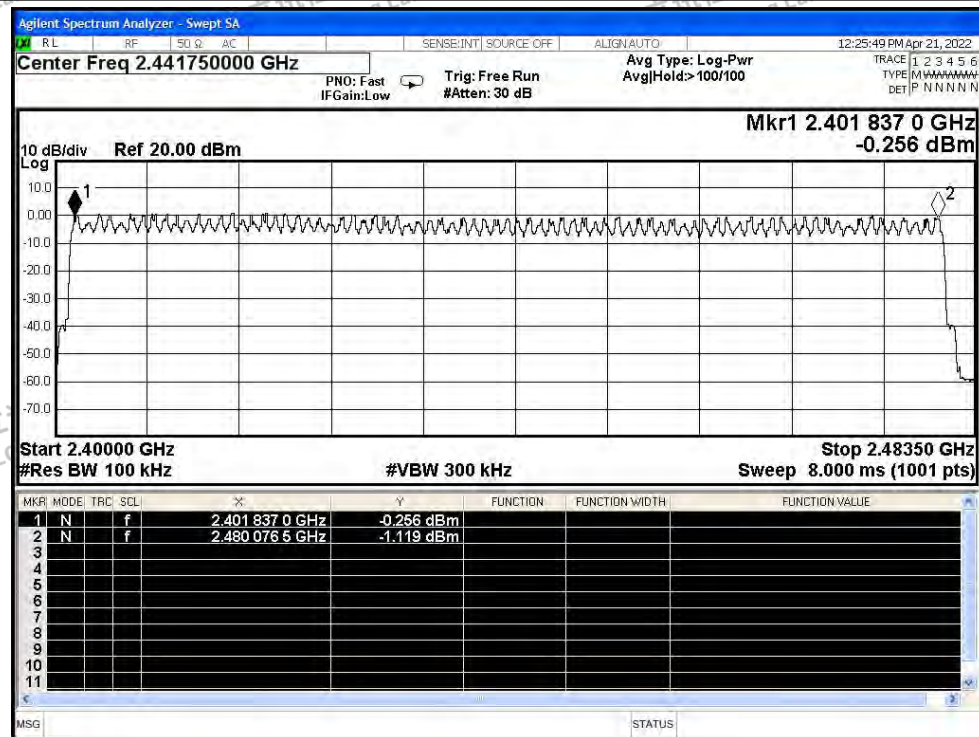


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

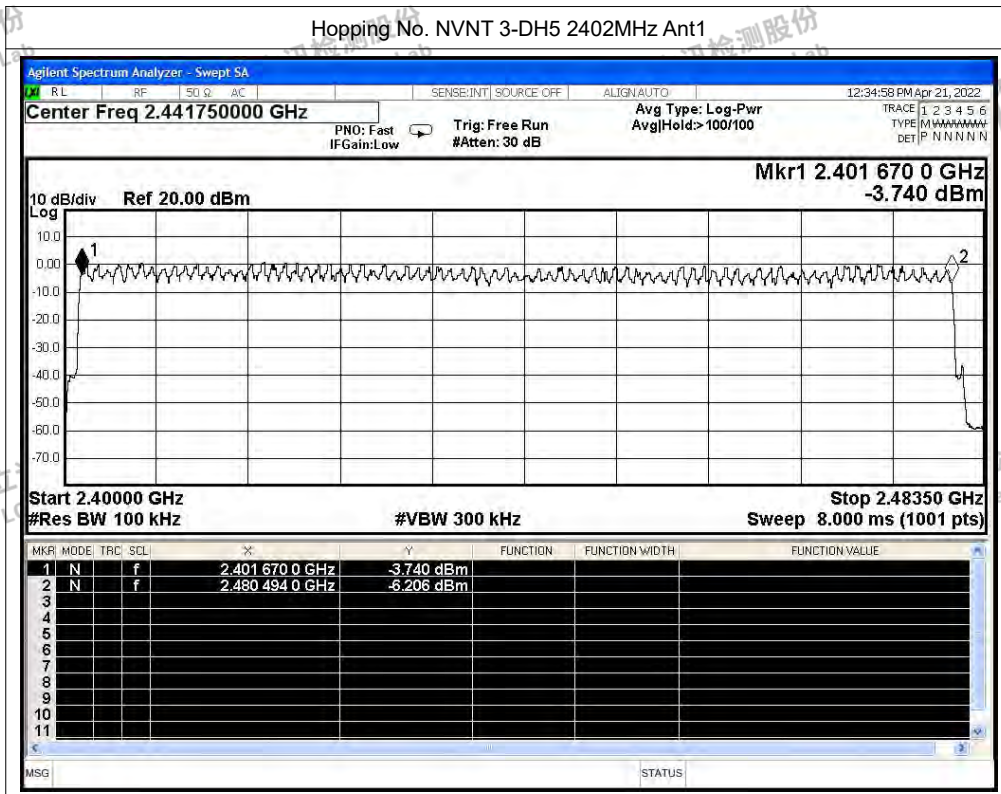


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.88	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.47	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.37	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.77	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.31	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-57.97	-20	Pass



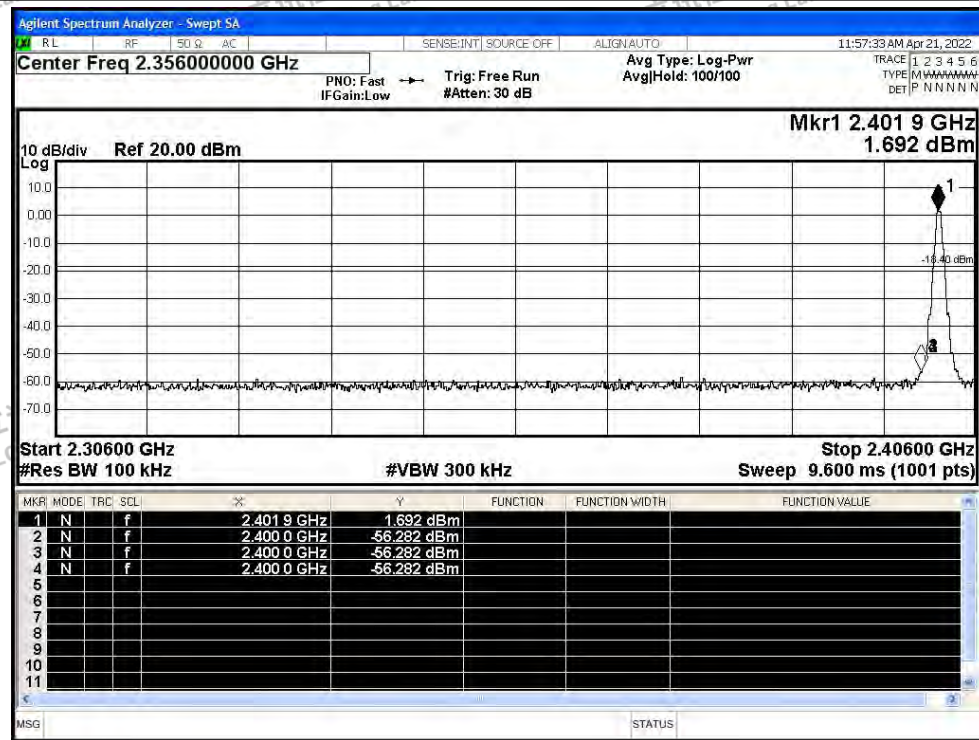


Test Graphs

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



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



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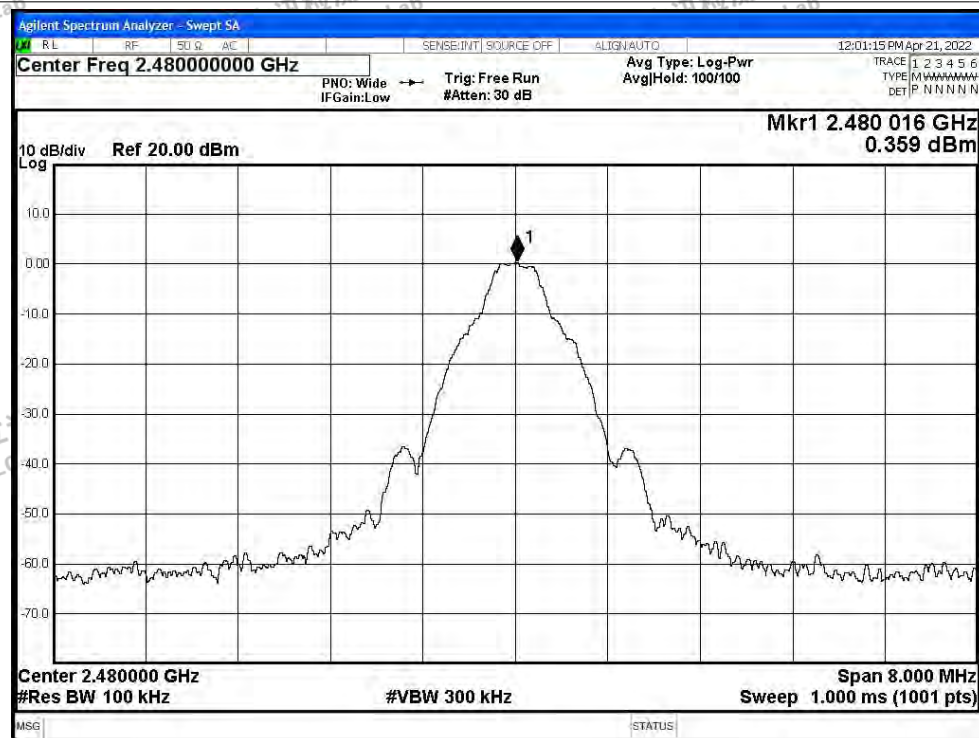
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

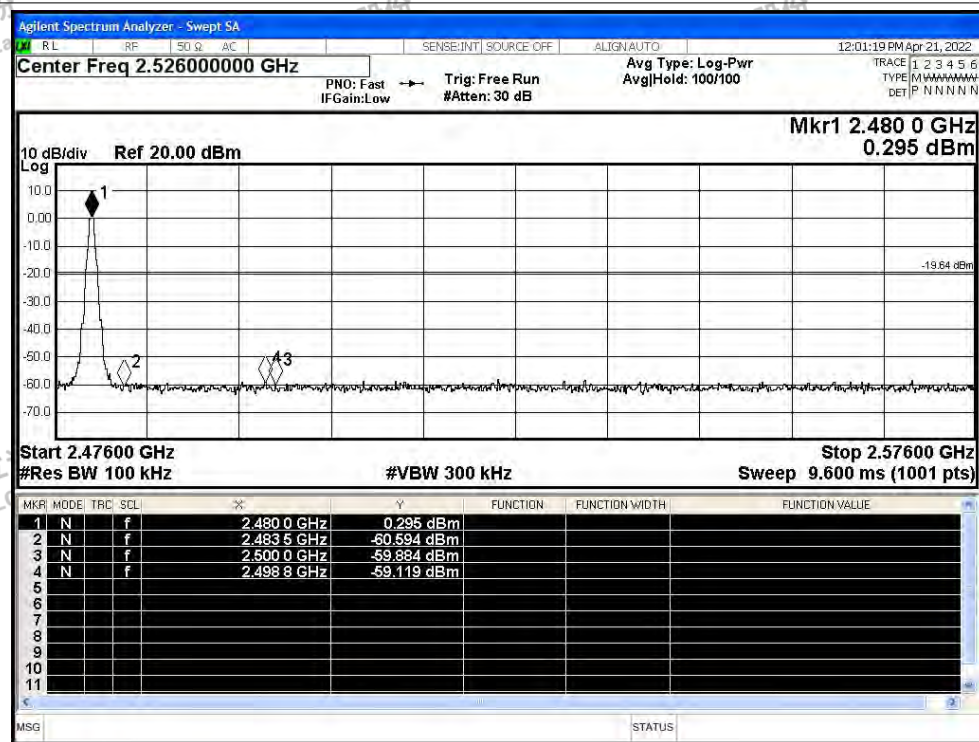
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

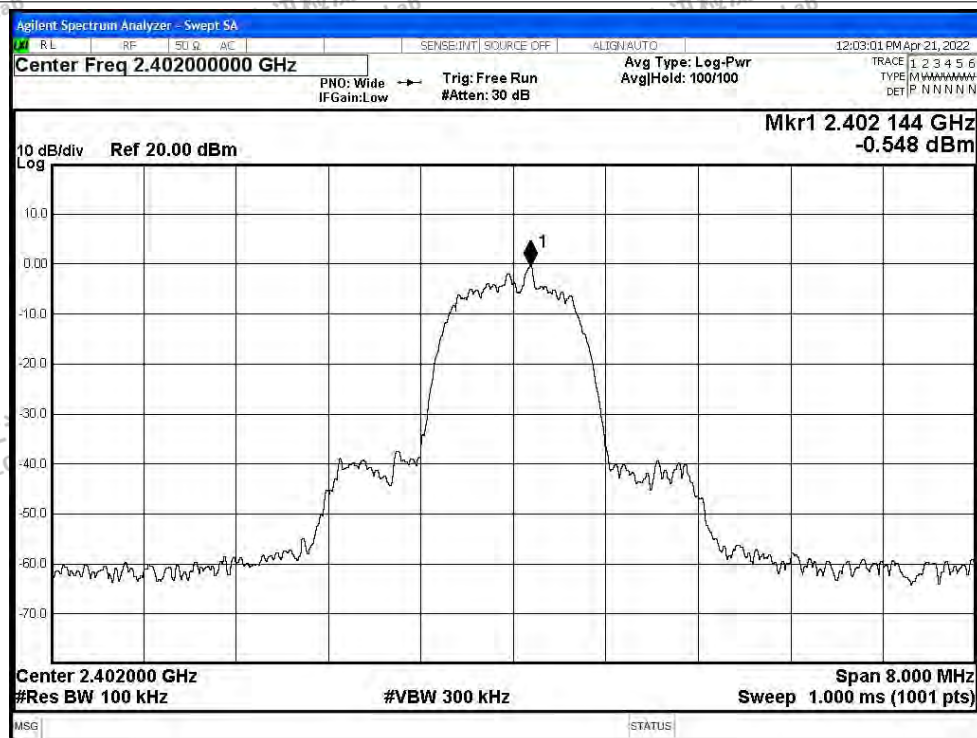
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

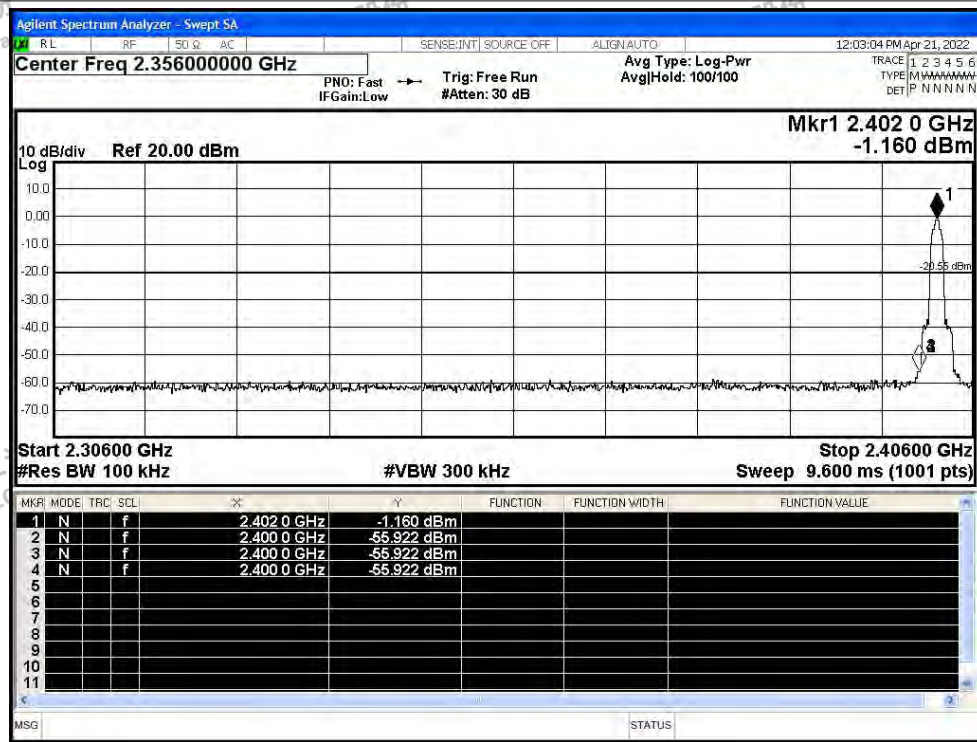
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

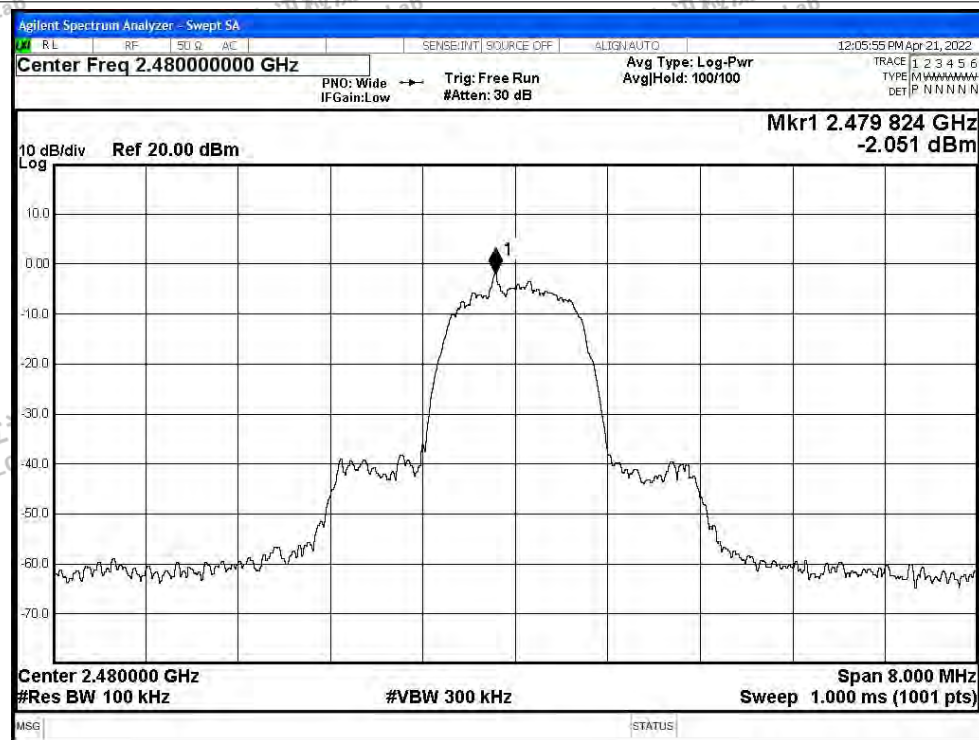
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

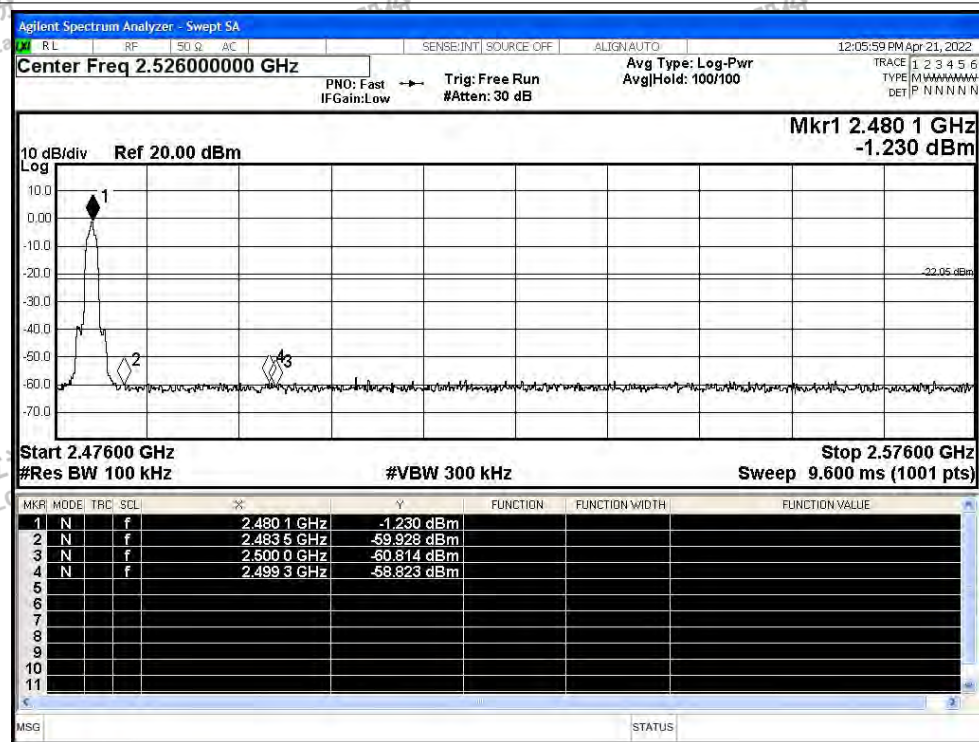
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

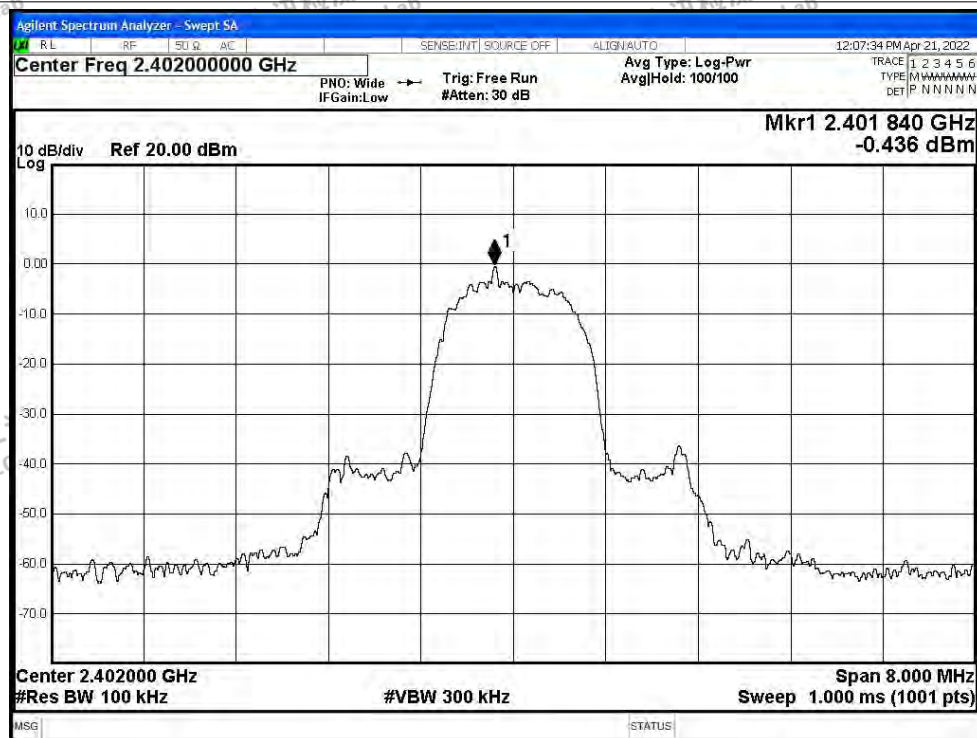
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

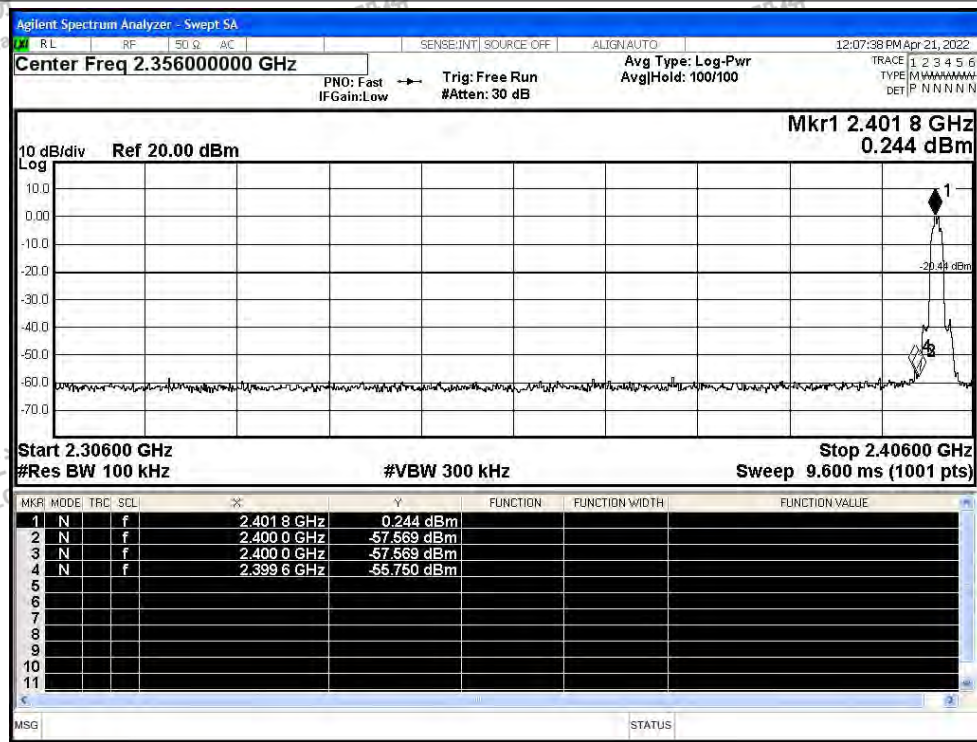
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

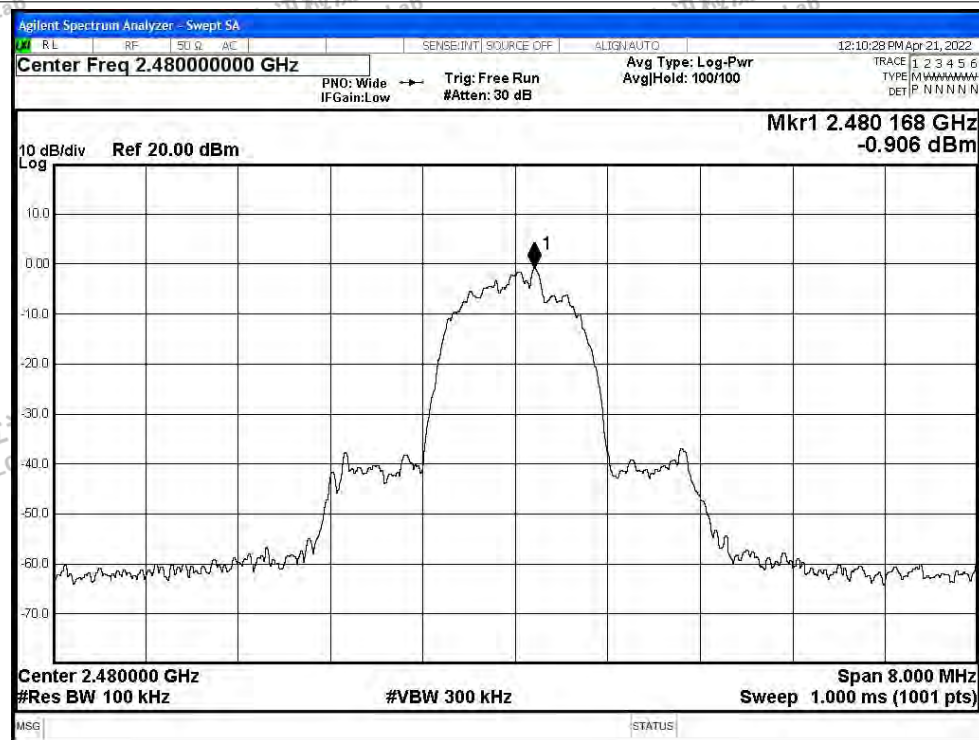
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

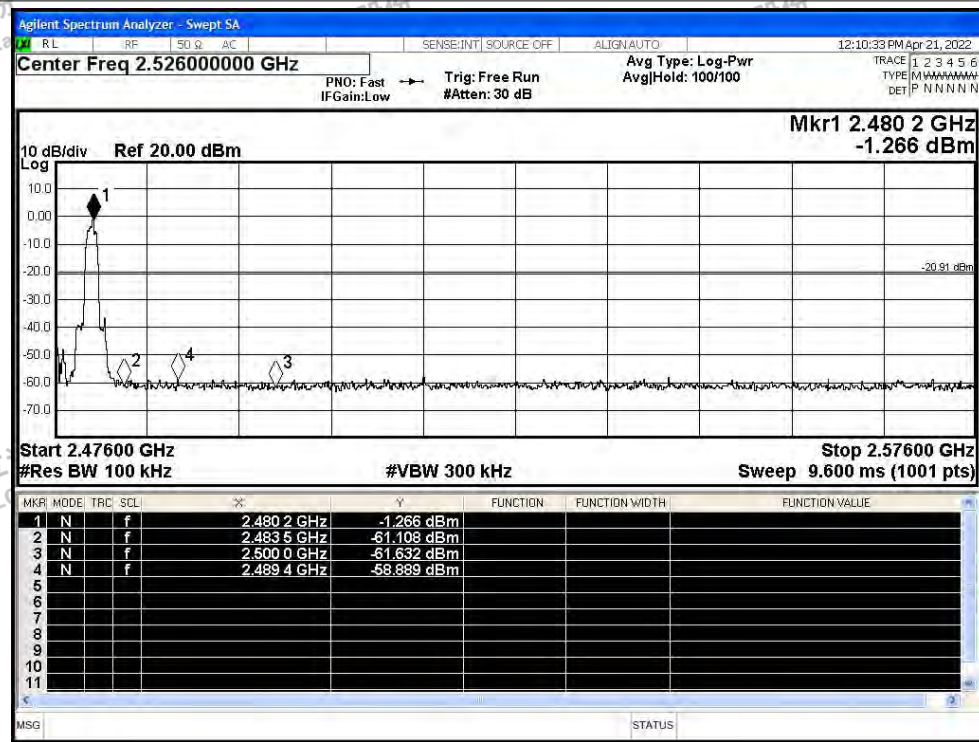
Scan code to check authenticity



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



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



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(Hopping)

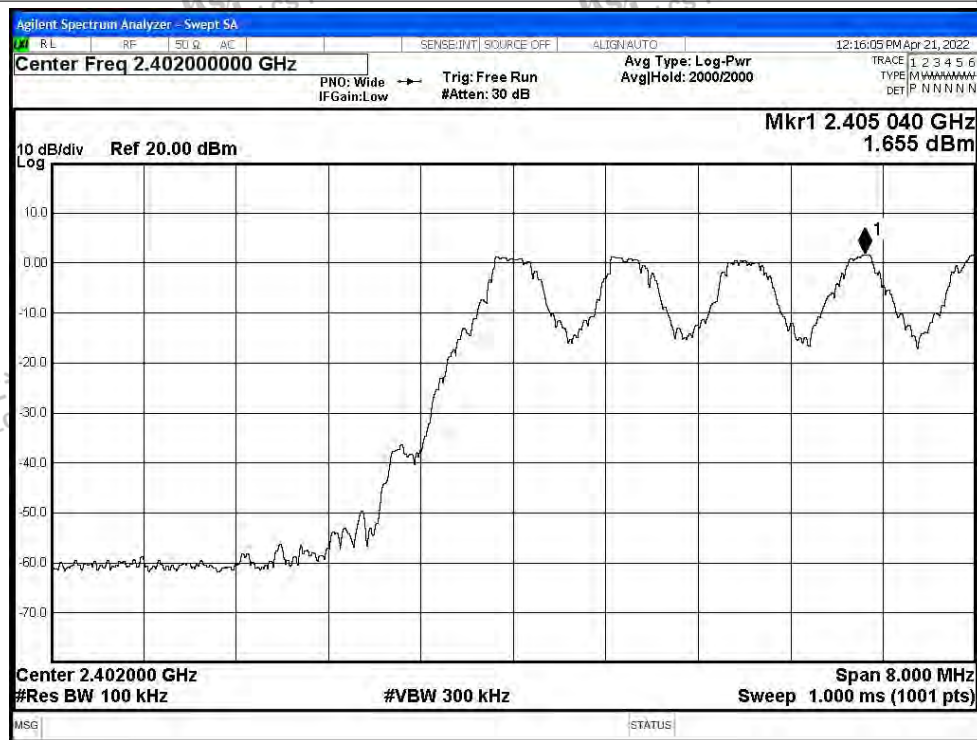
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-59.51	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.26	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.25	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.14	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-56.53	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.36	-20	Pass



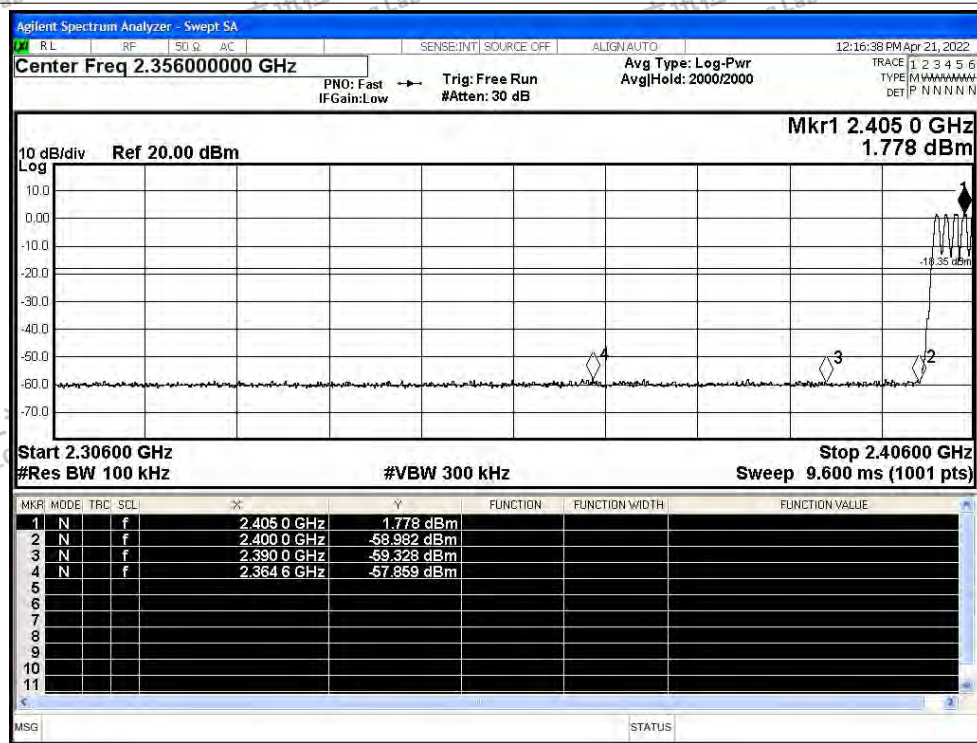


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

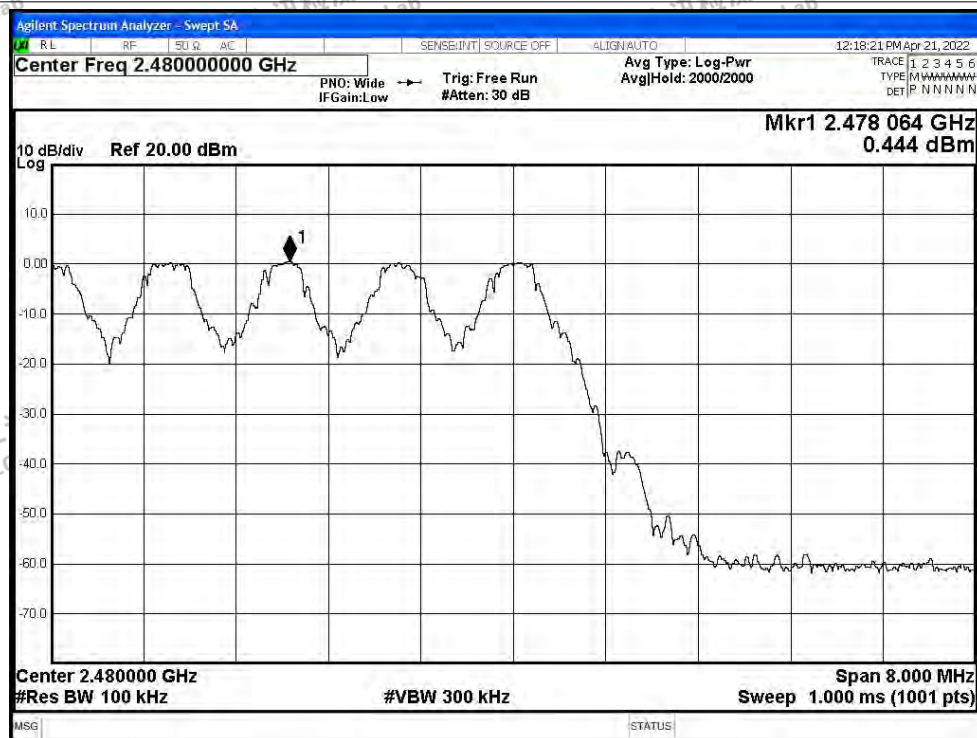
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

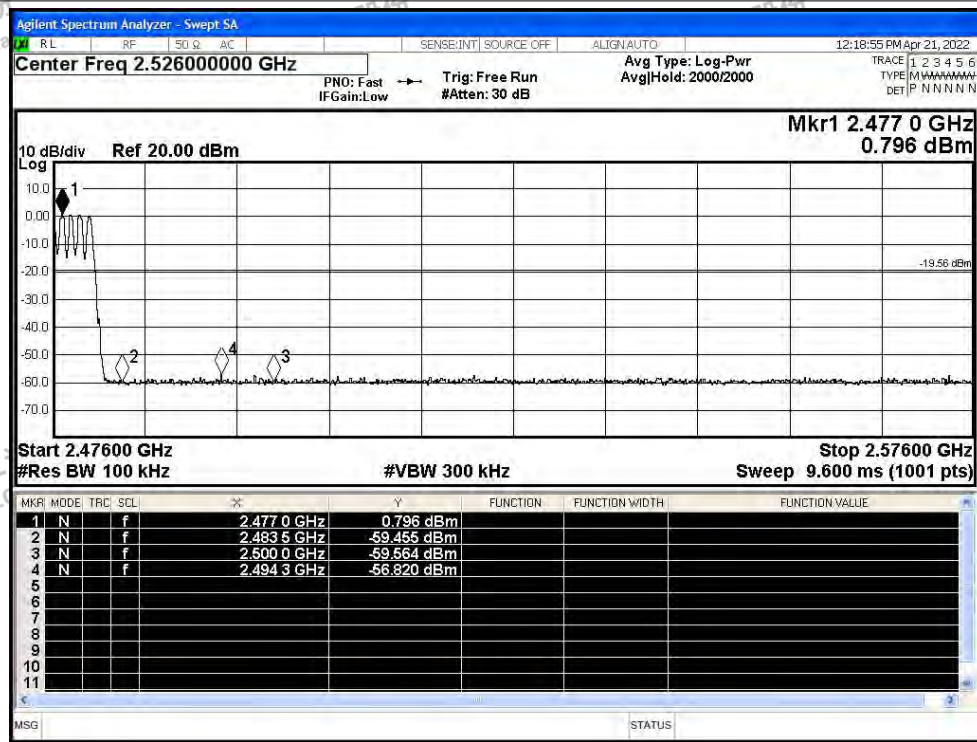
Scan code to check authenticity



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



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



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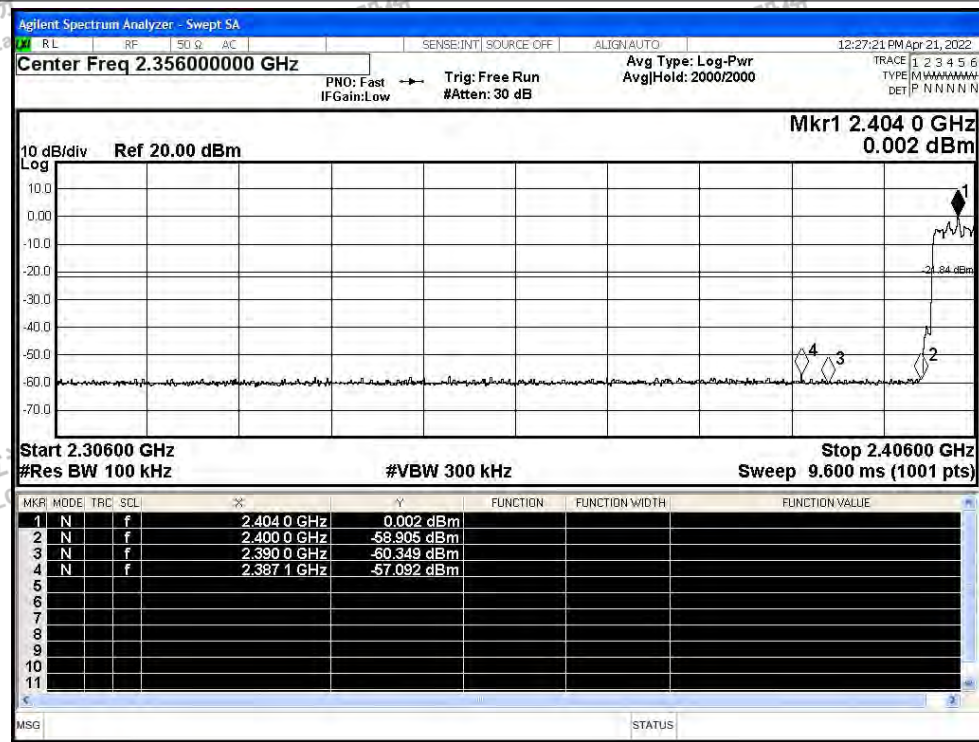
Scan code to check authenticity



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



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

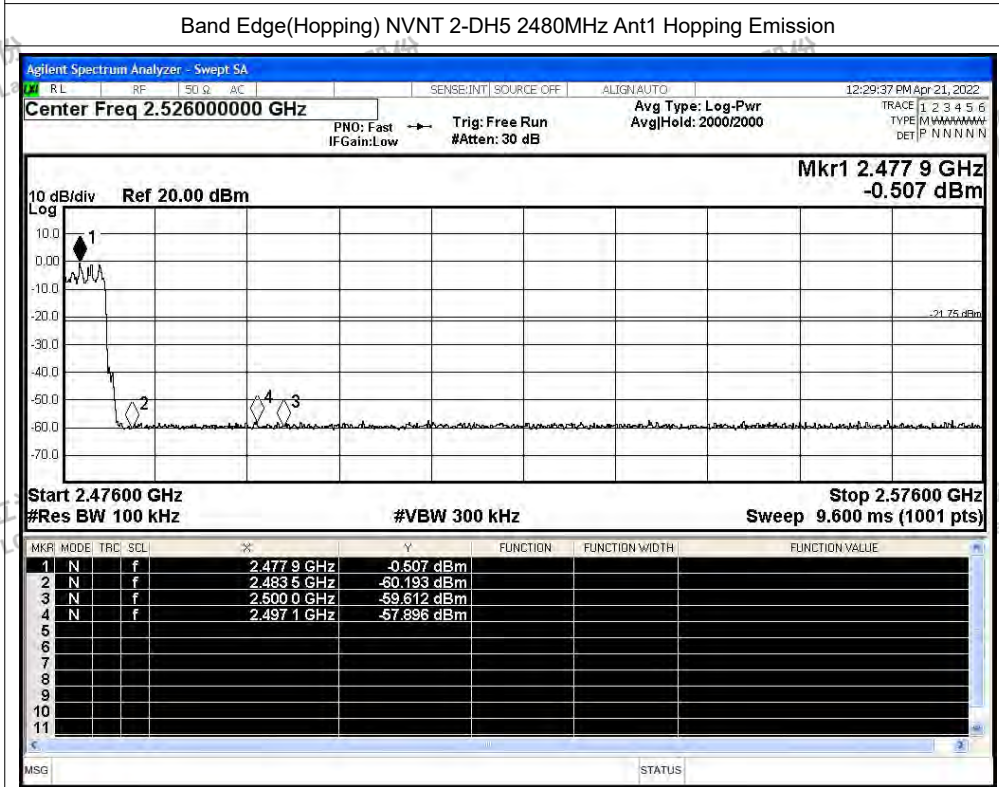
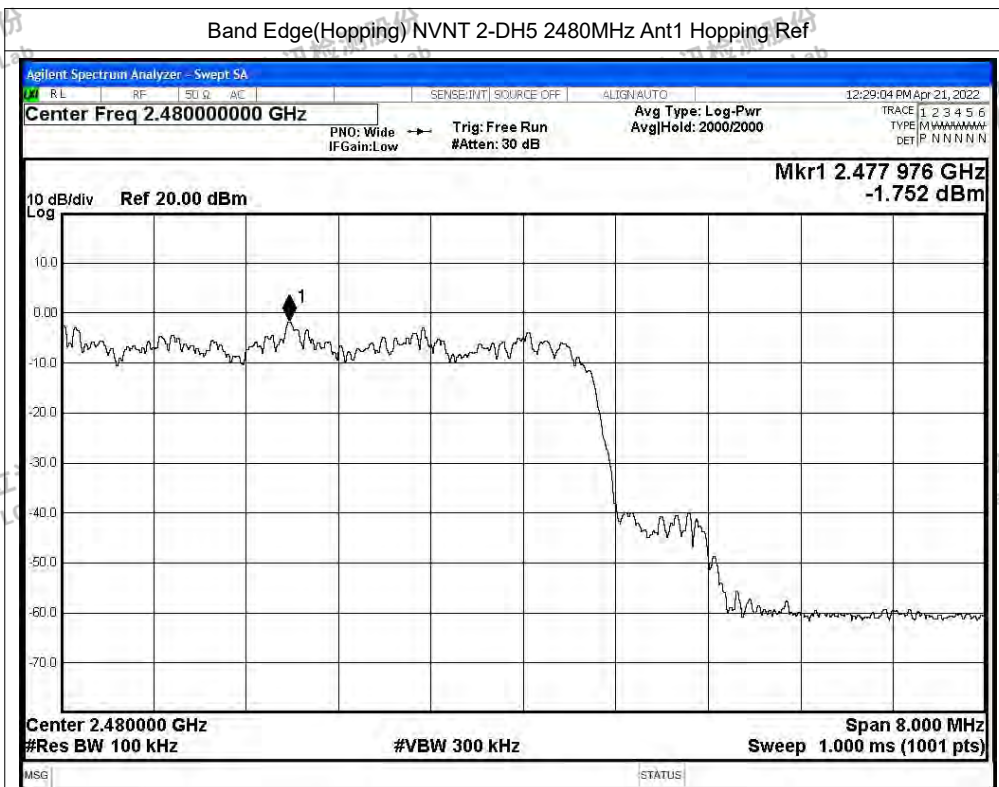


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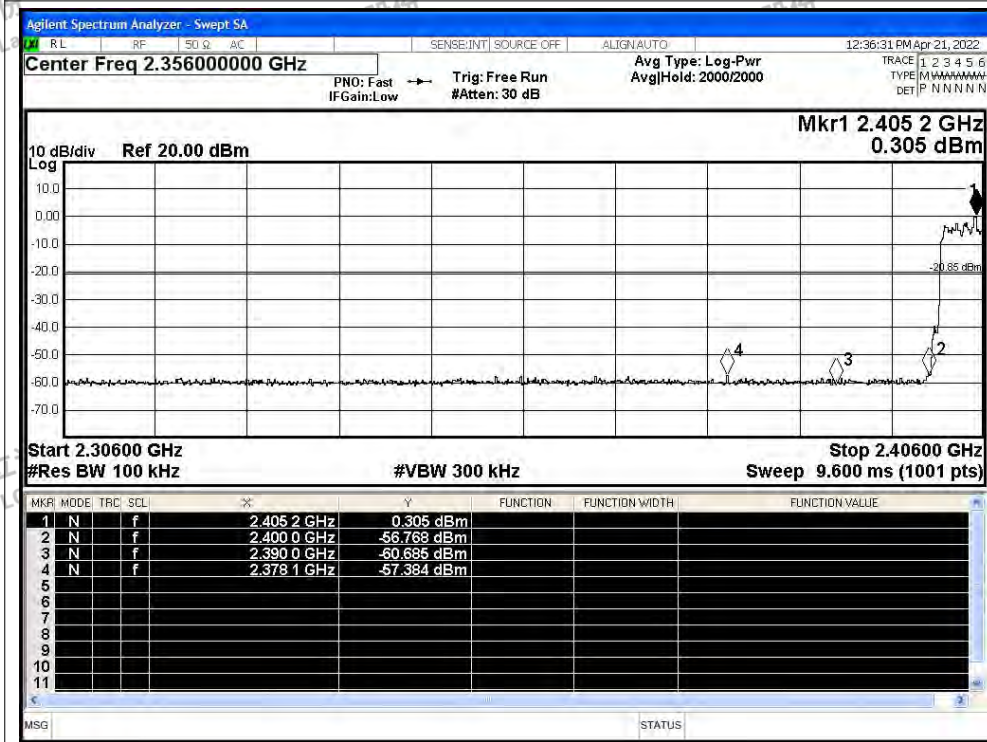
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

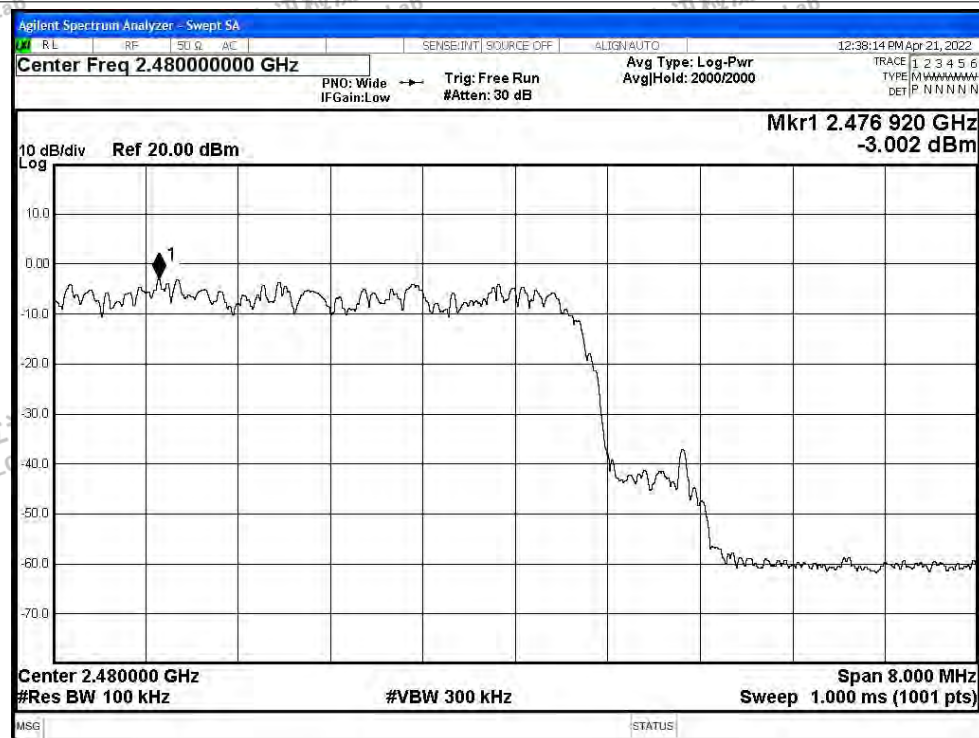
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

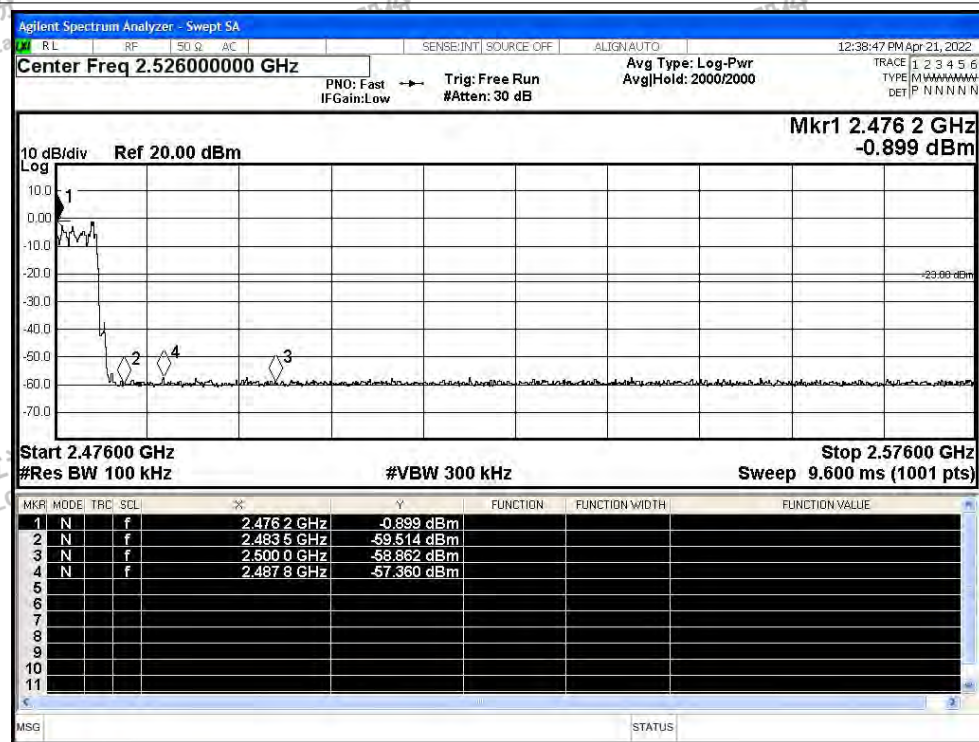
Scan code to check authenticity



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



Band Edge(Hopping) NVNT 3-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	-59.58	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.51	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.76	-20	Pass
NVNT	2-DH5	2402	Ant1	-20.06	-20	Pass
NVNT	2-DH5	2441	Ant1	-56.11	-20	Pass
NVNT	2-DH5	2480	Ant1	-56.27	-20	Pass
NVNT	3-DH5	2402	Ant1	-56.83	-20	Pass
NVNT	3-DH5	2441	Ant1	-56.59	-20	Pass
NVNT	3-DH5	2480	Ant1	-56.4	-20	Pass



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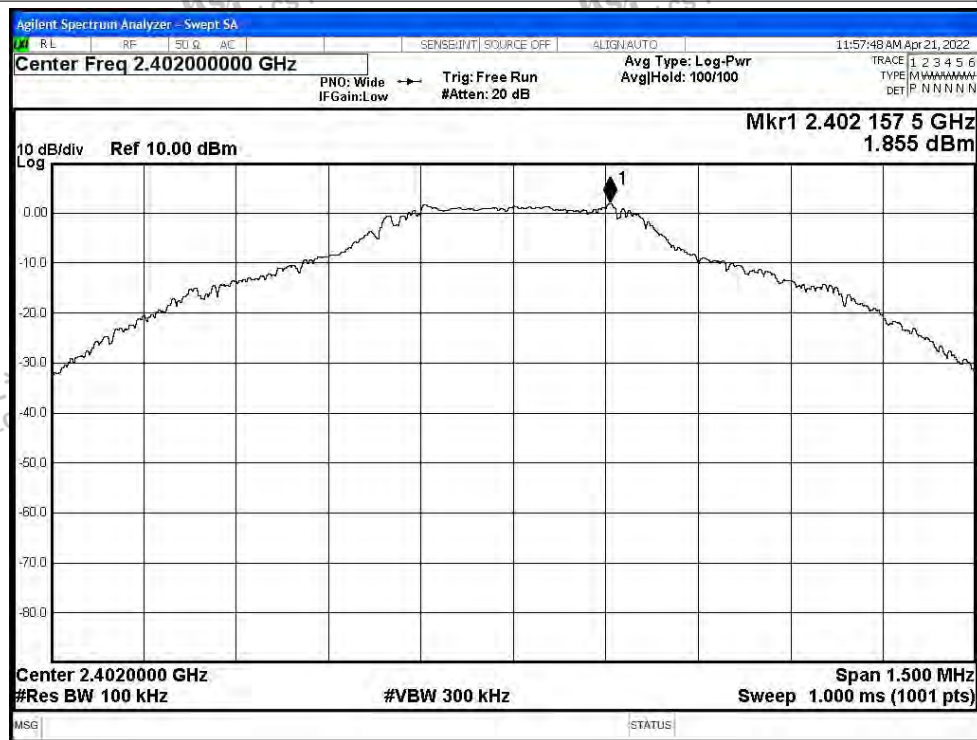
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

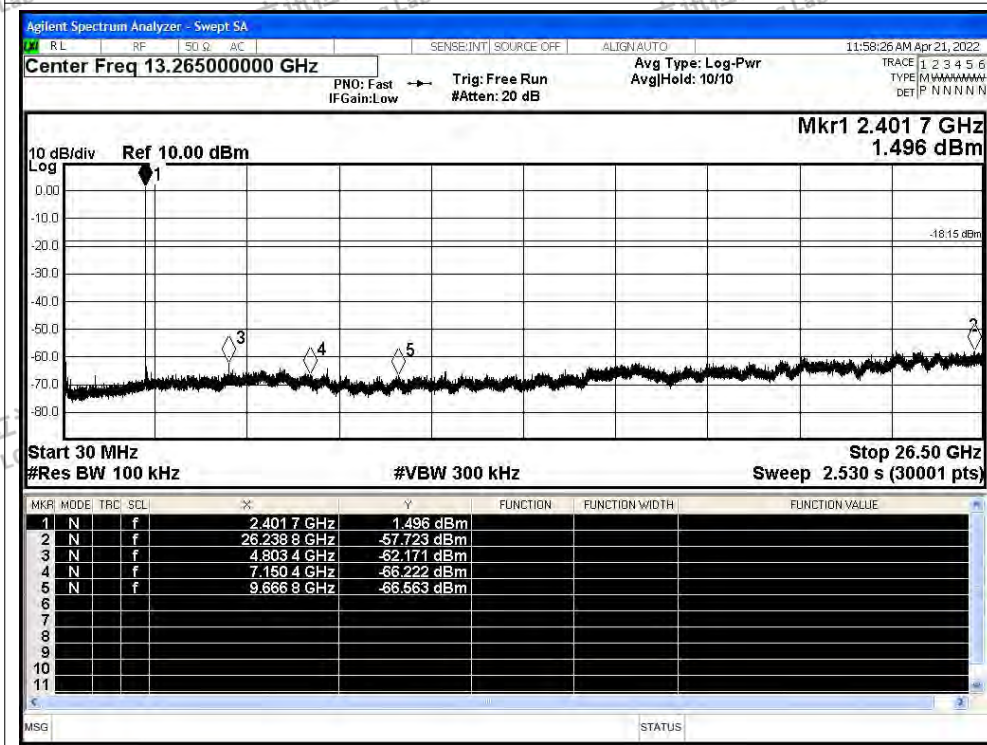


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

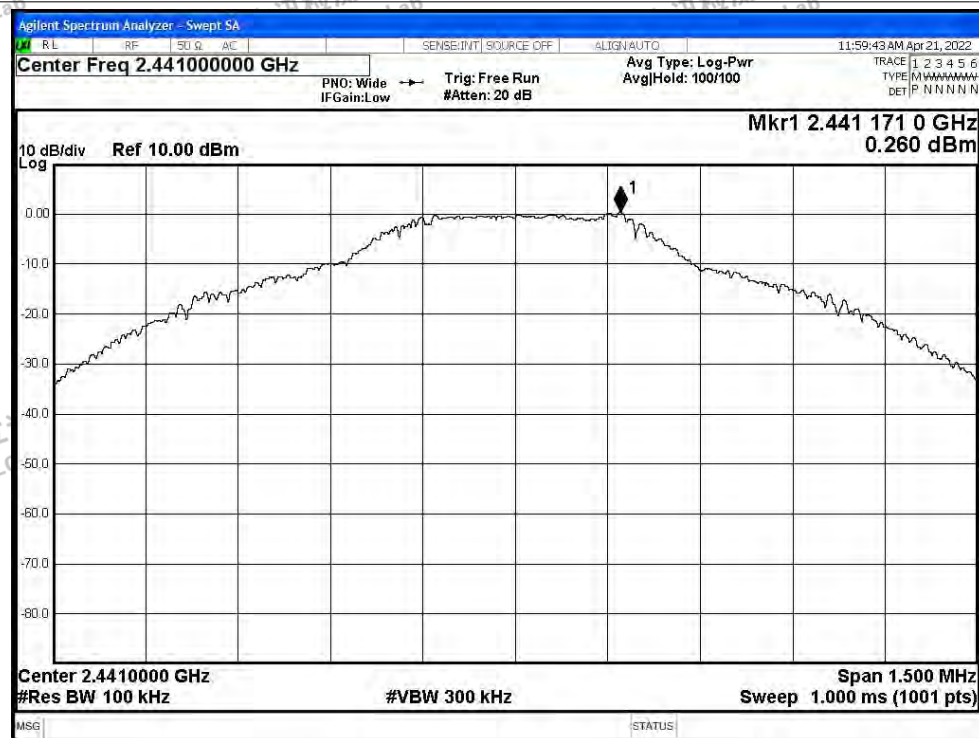
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

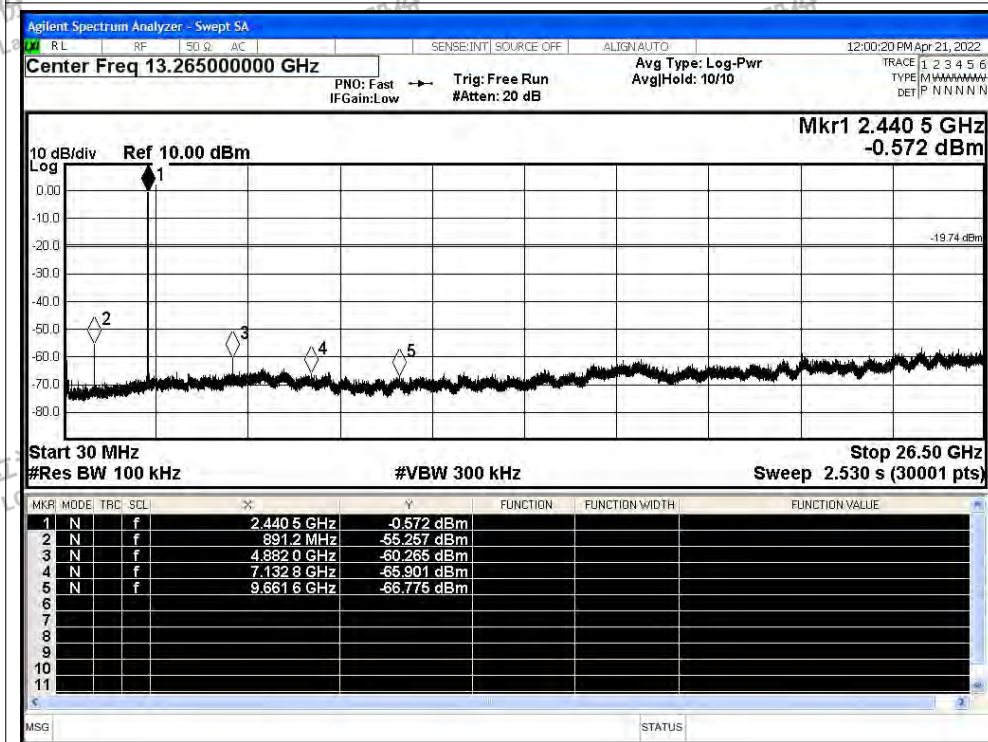
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

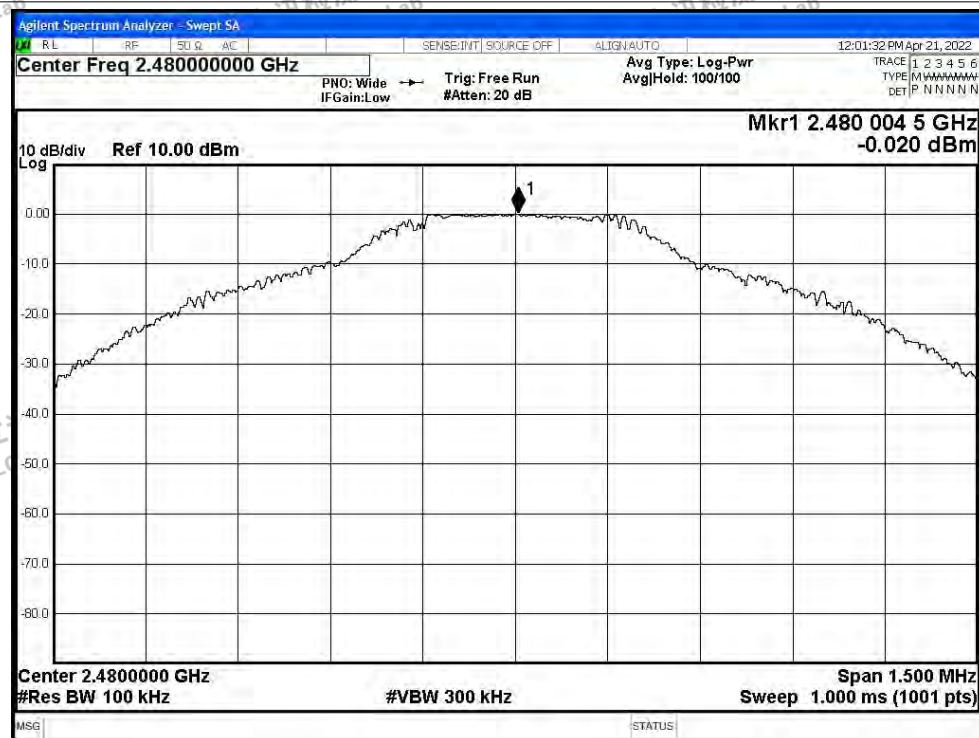
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

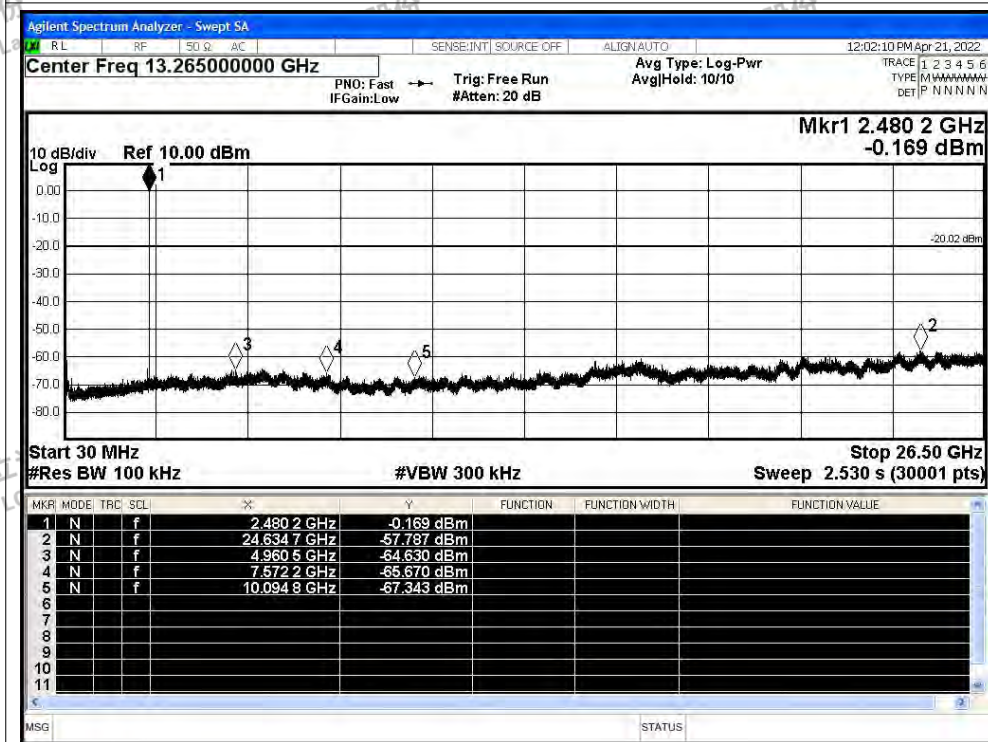
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

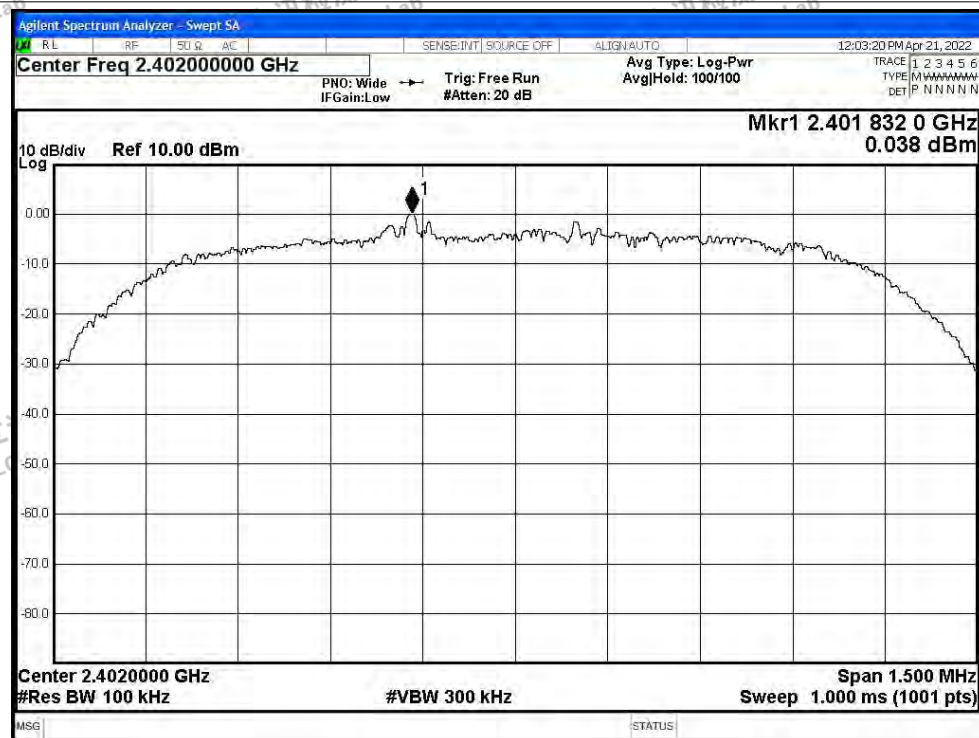
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

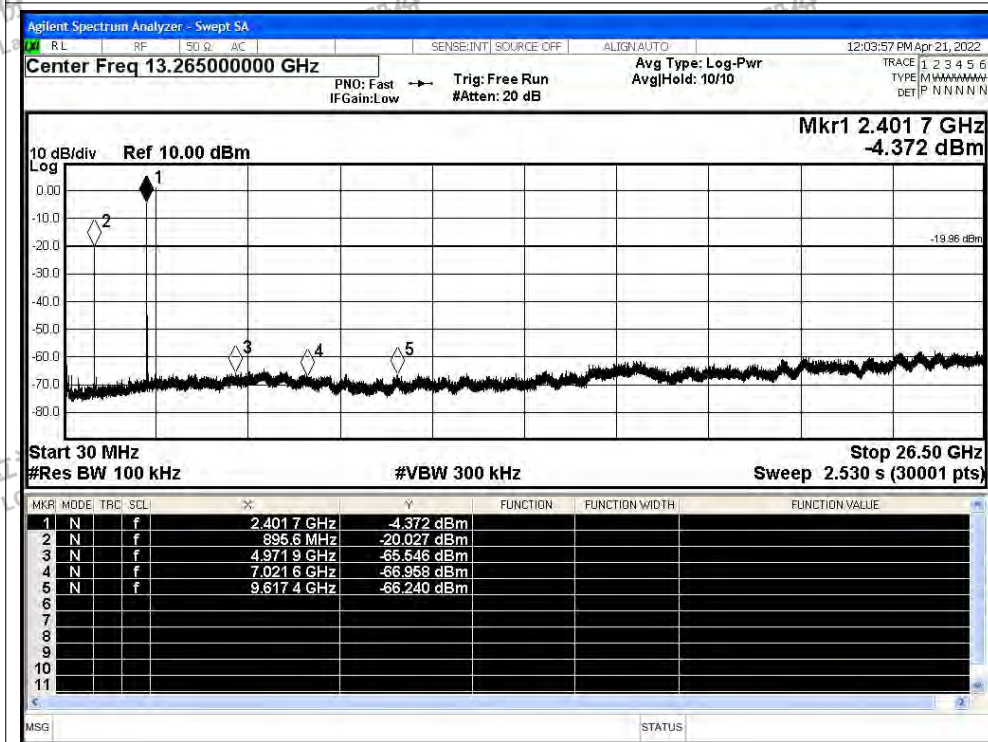
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

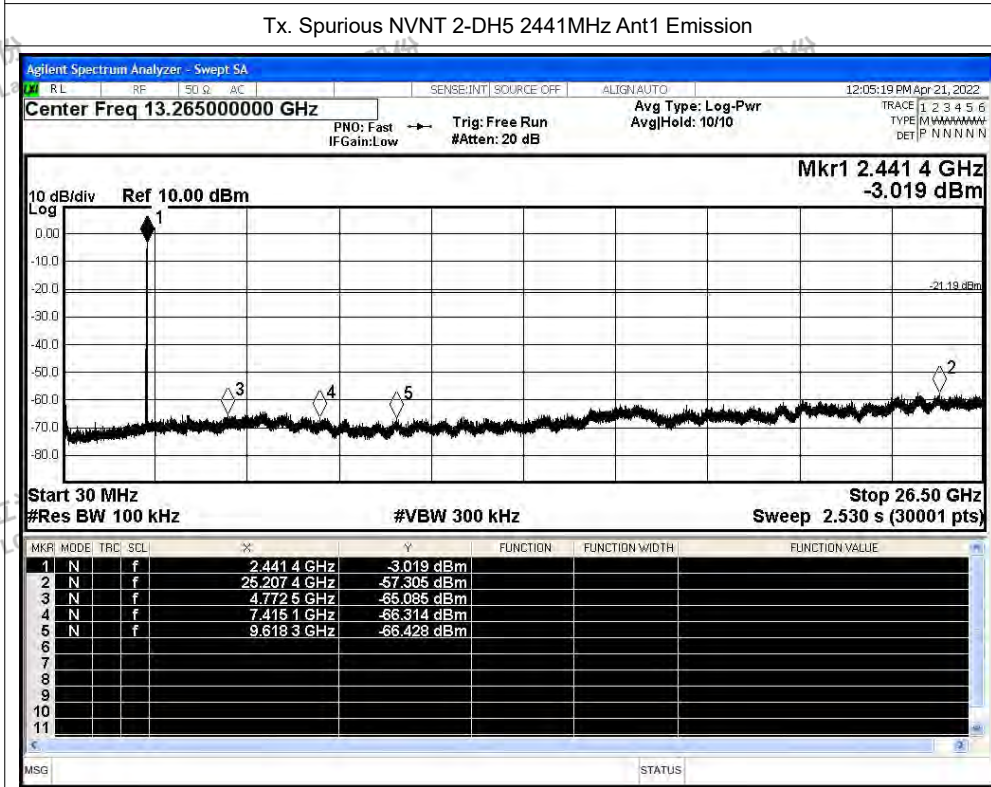
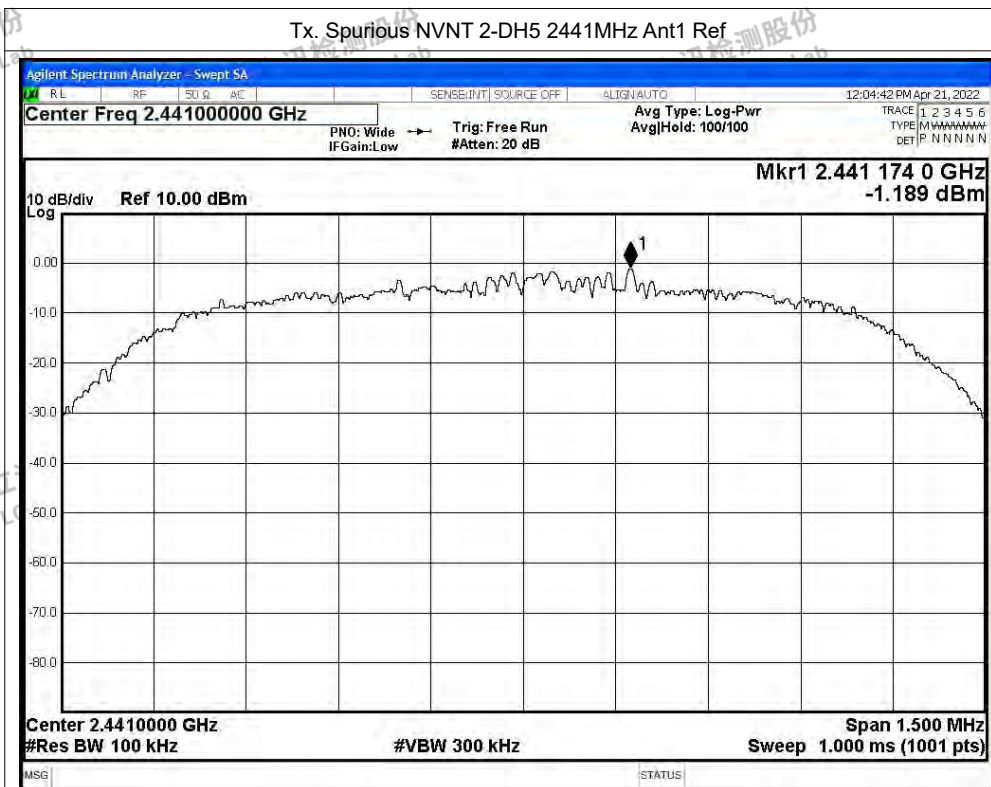


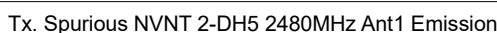
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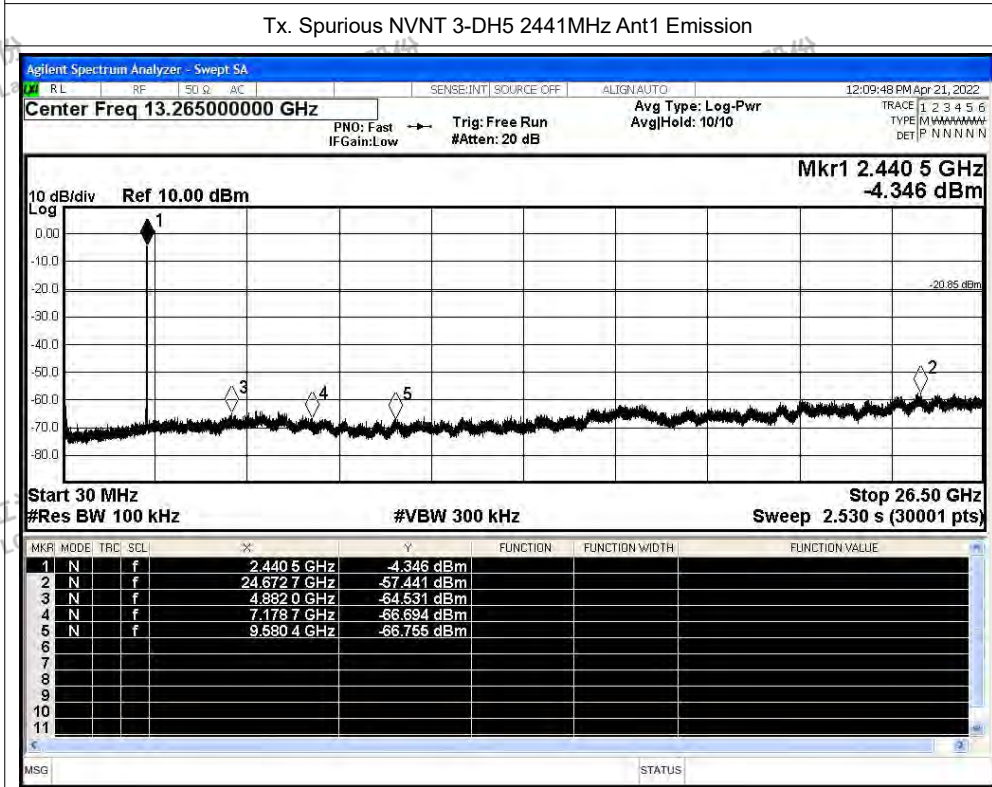
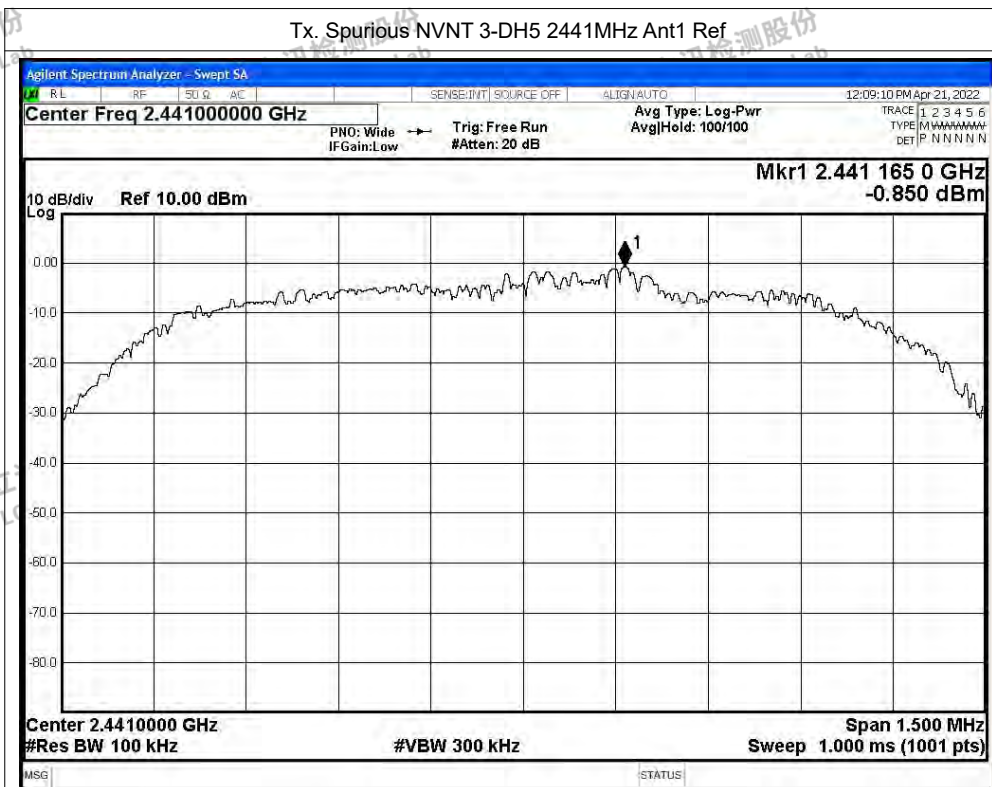
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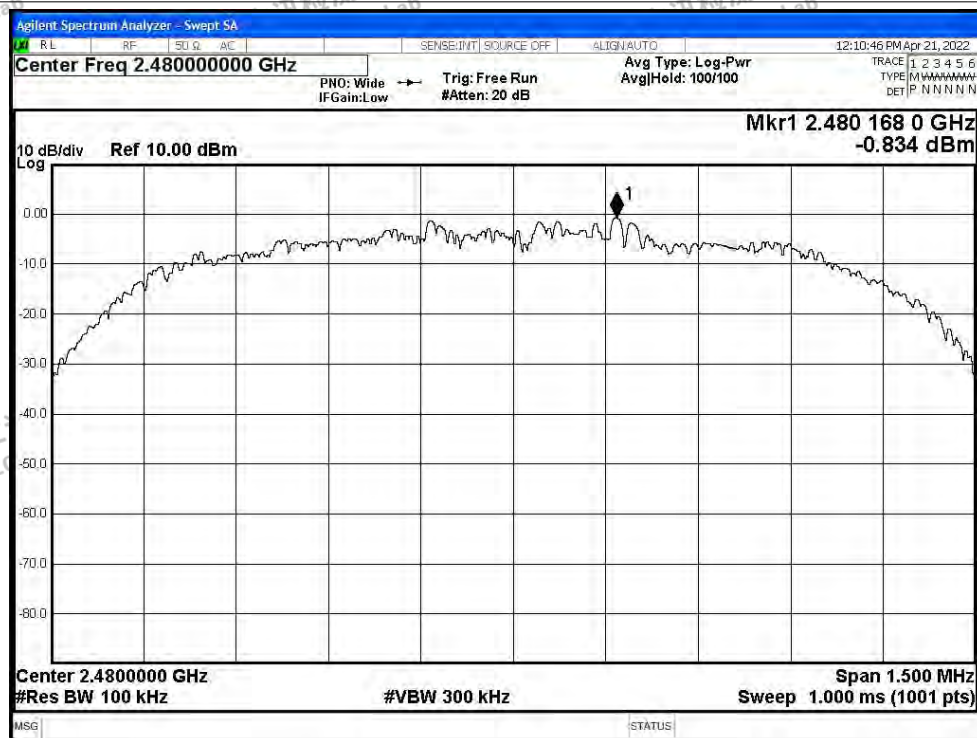


Scan code to check authenticity

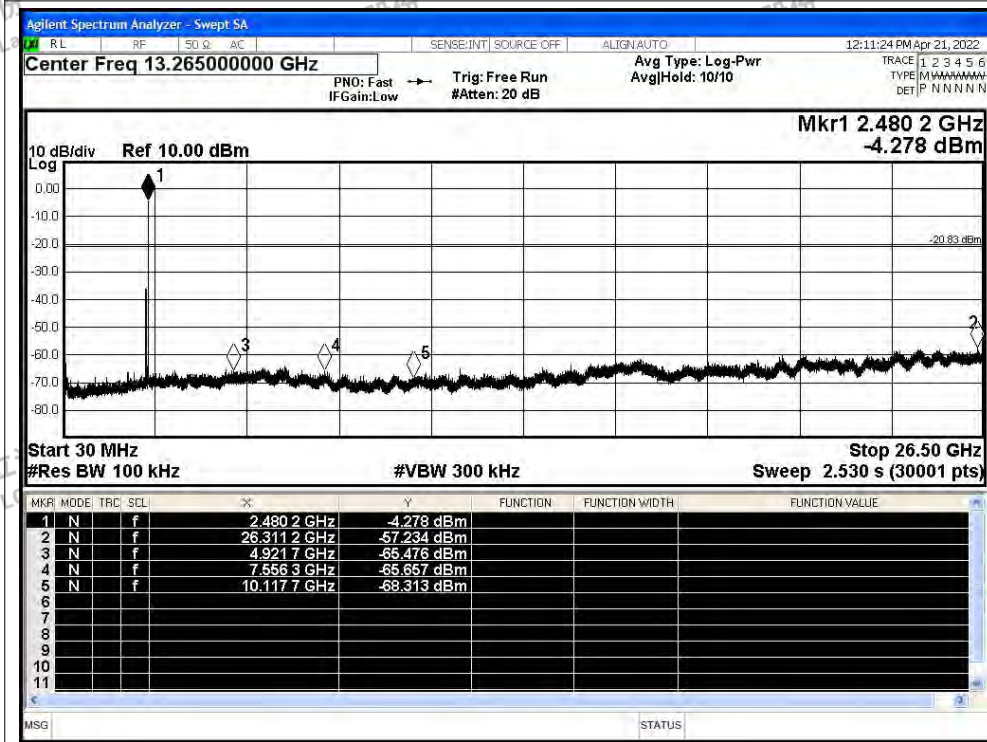




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-51.52	5	45.74	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-62.03	5	35.23	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2373.84	-48.98	5	48.28	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.896	-61.52	5	35.74	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.19	5	46.07	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-61.67	5	35.59	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.9	5	46.36	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-61.22	5	36.04	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2497.432	-48.66	5	48.6	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.968	-61.06	5	36.2	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-52.91	5	44.35	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-61.73	5	35.53	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.22	5	45.04	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-62.15	5	35.11	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2371.248	-49.26	5	48	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.088	-61.57	5	35.69	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-52.35	5	44.91	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-61.78	5	35.48	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.61	5	46.65	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-61.1	5	36.16	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.68	-49.34	5	47.92	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.992	-61.06	5	36.2	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-53.25	5	44.01	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-61.7	5	35.56	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-53.05	5	44.21	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-62.12	5	35.14	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2317.488	-49.35	5	47.91	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2374.896	-61.54	5	35.72	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-52.47	5	44.79	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-61.69	5	35.57	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-51.31	5	45.95	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-61	5	36.26	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.704	-48.55	5	48.71	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.536	-60.99	5	36.27	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-53.32	5	43.94	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-61.7	5	35.56	Average	54	Pass



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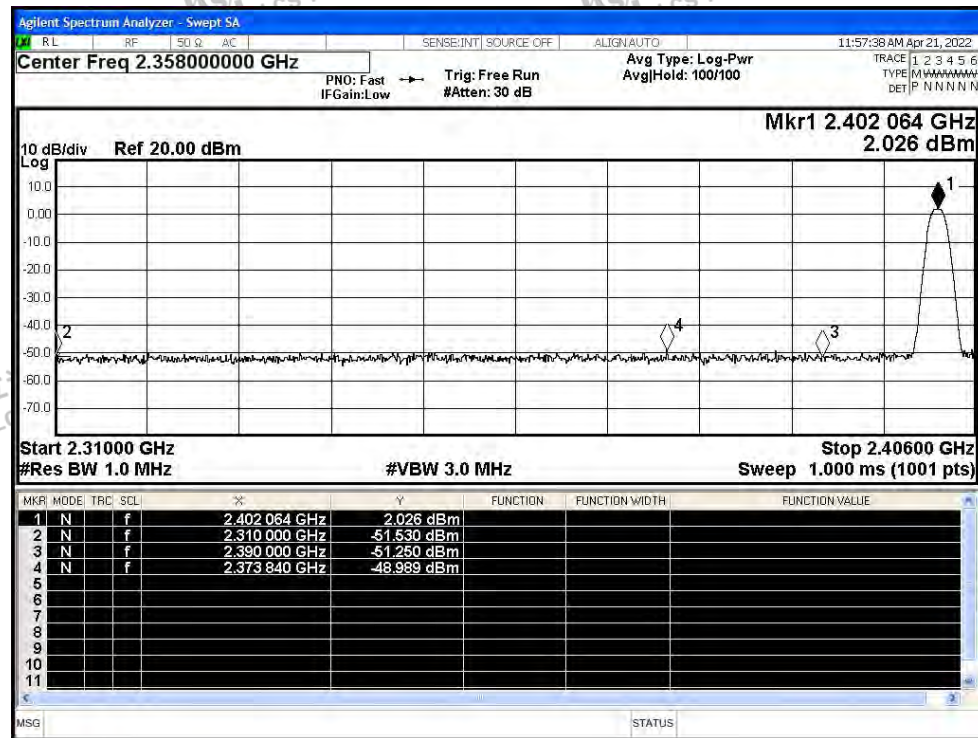
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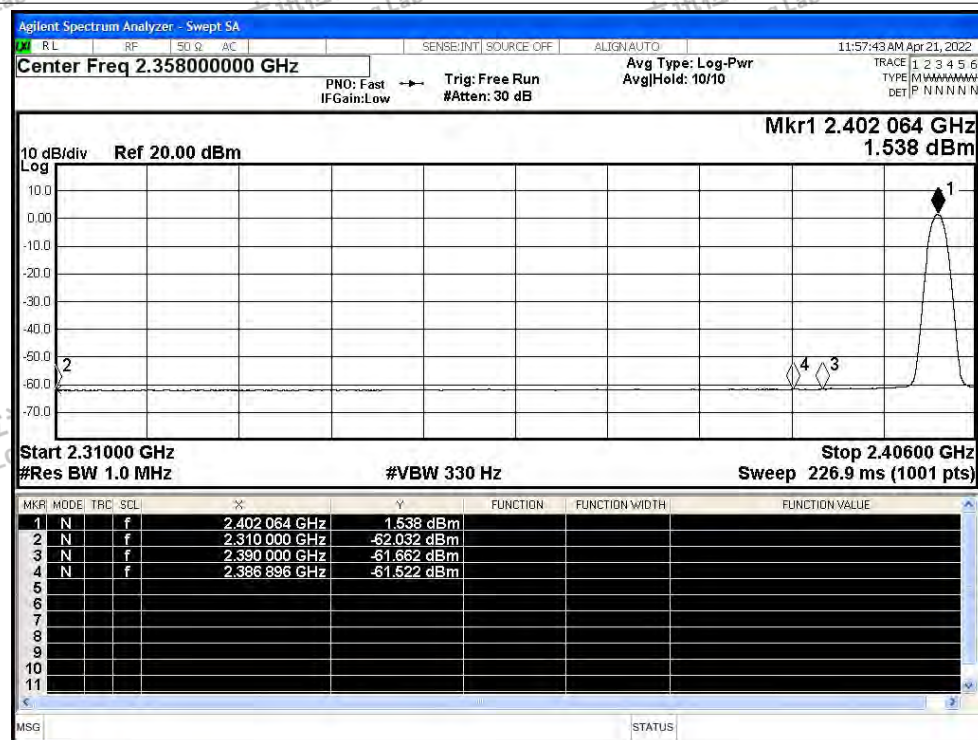


Test Graphs

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



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

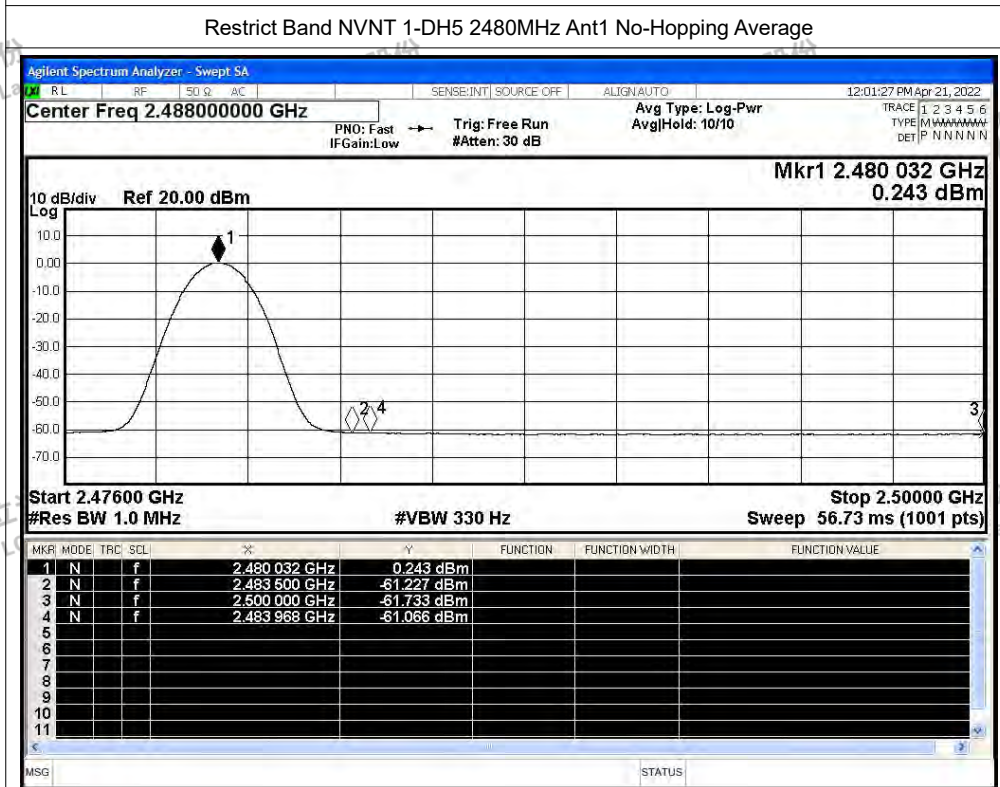
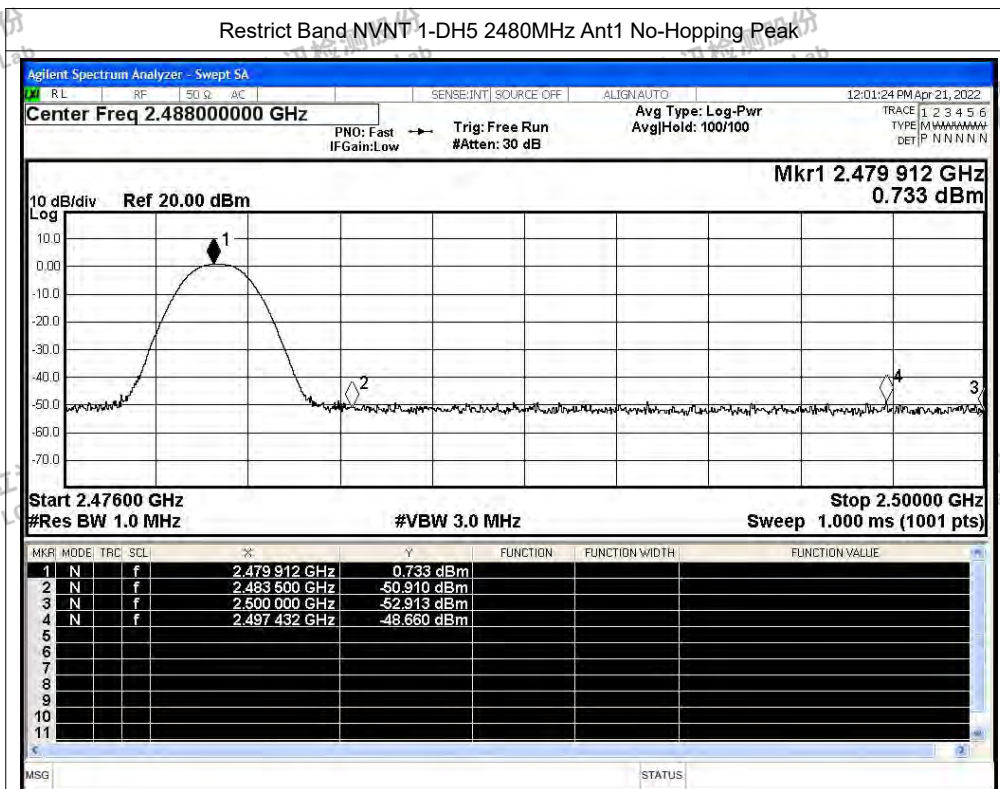


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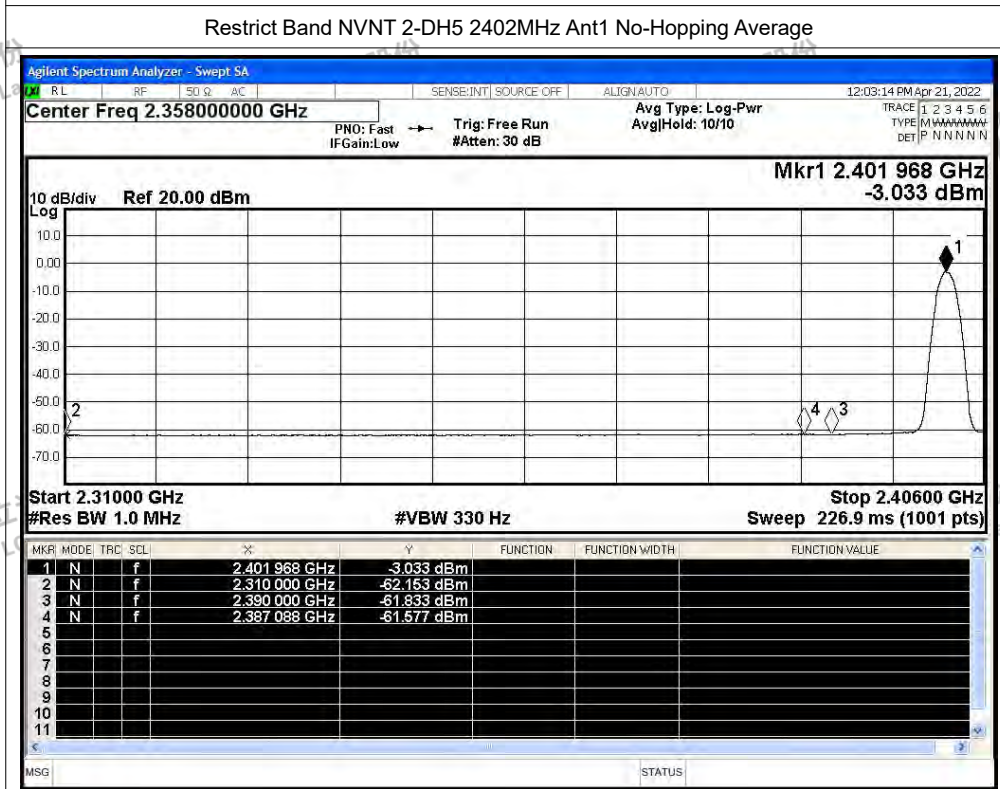
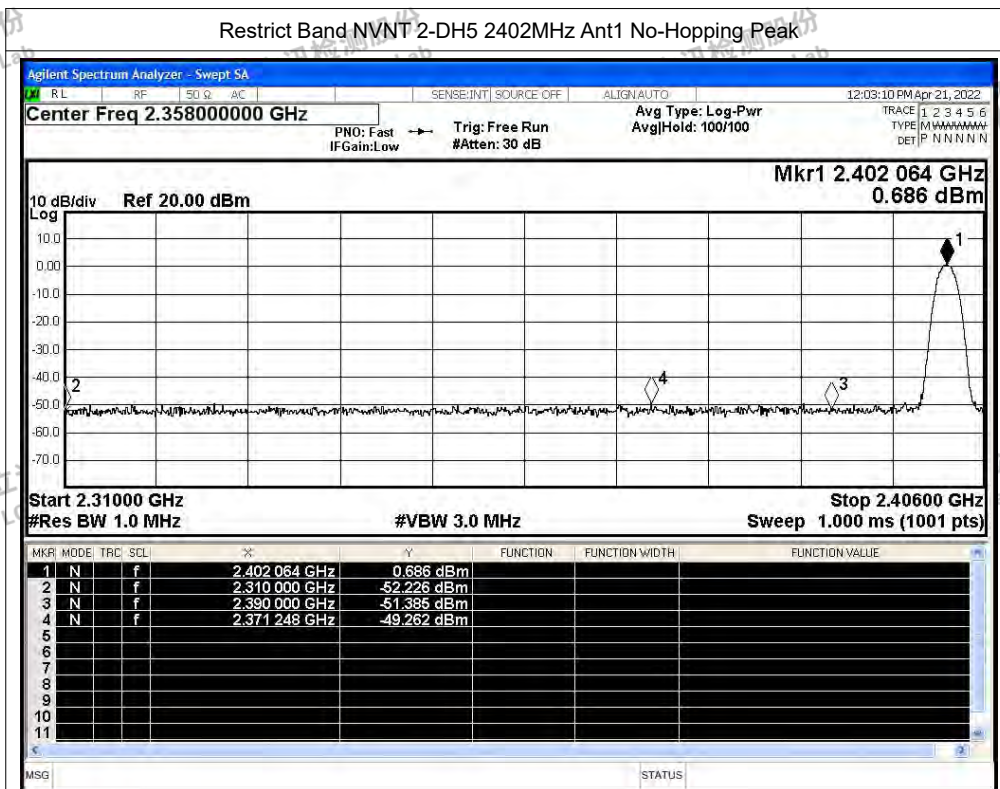


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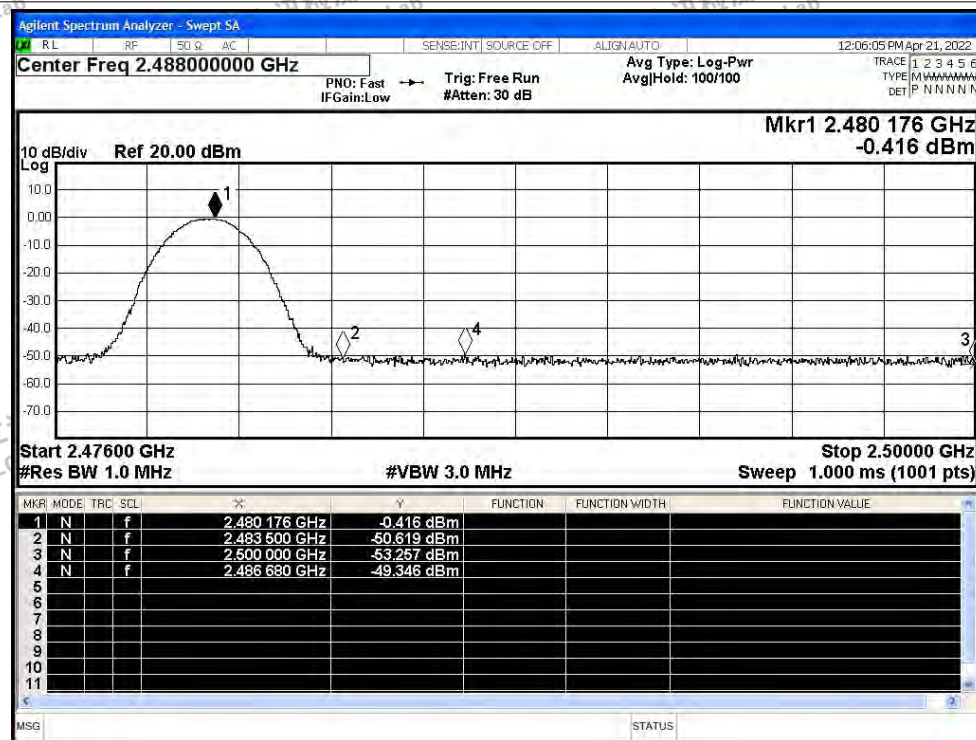
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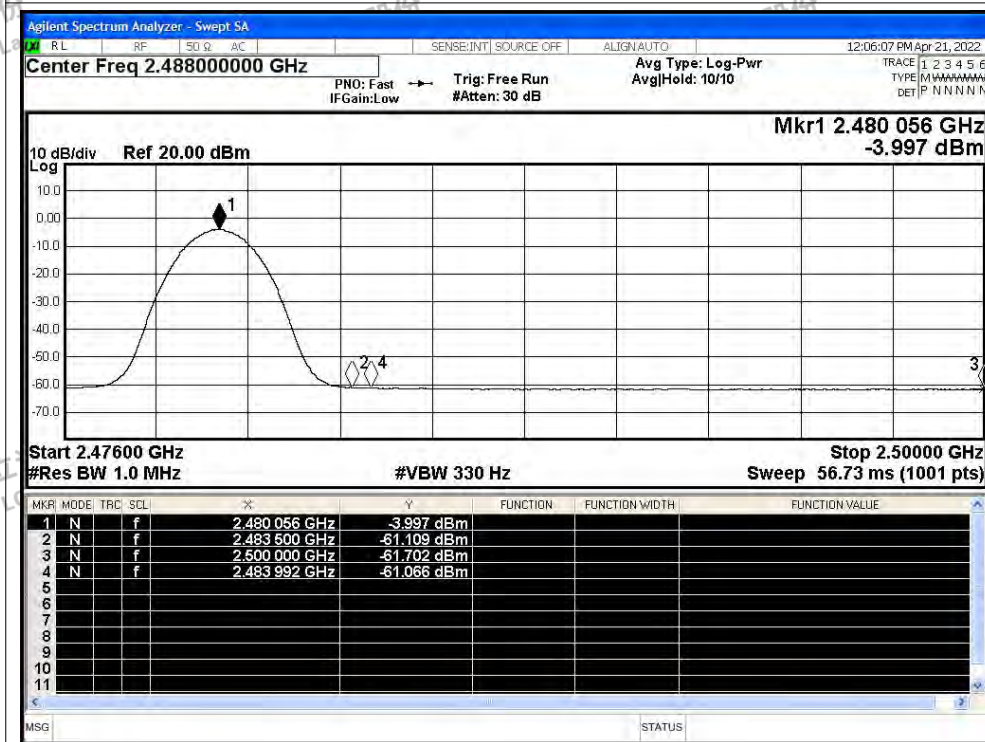
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



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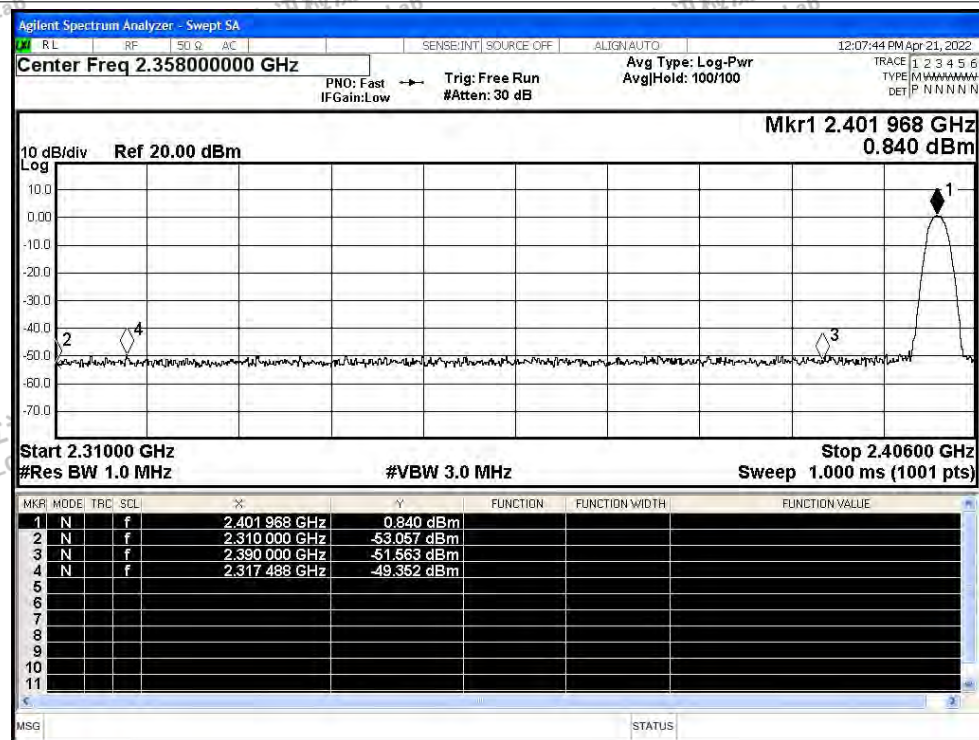
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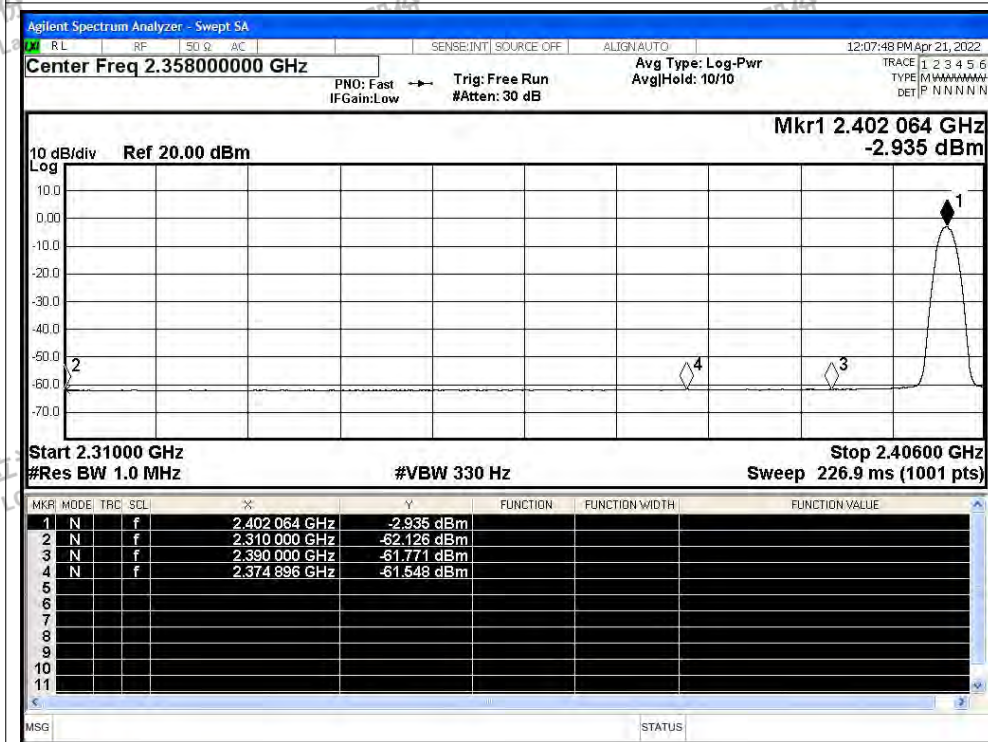
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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



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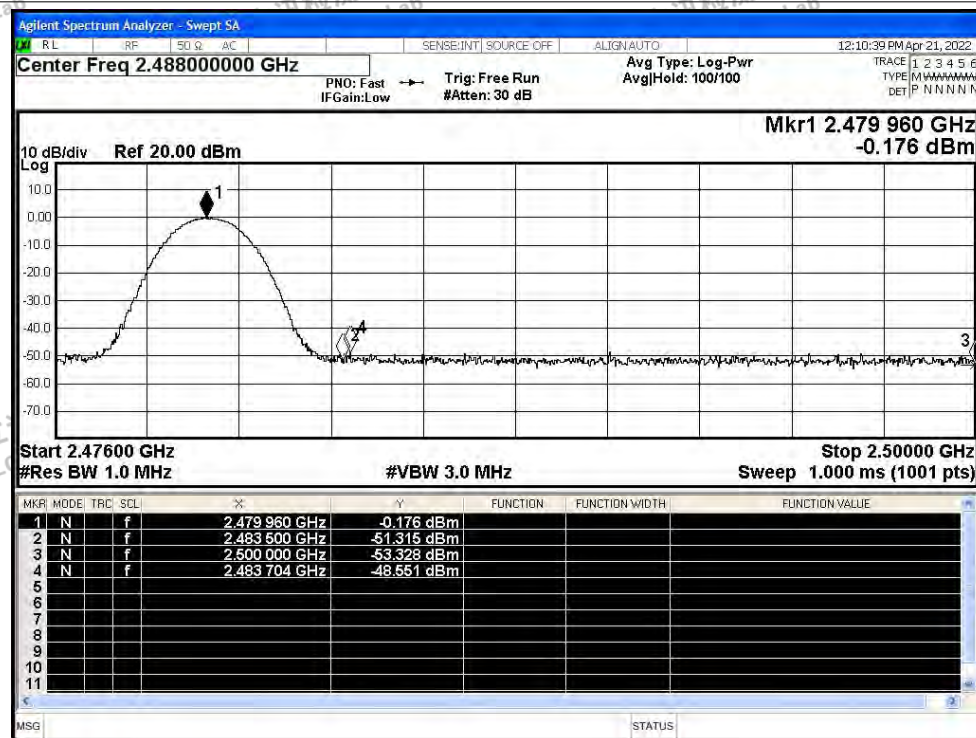
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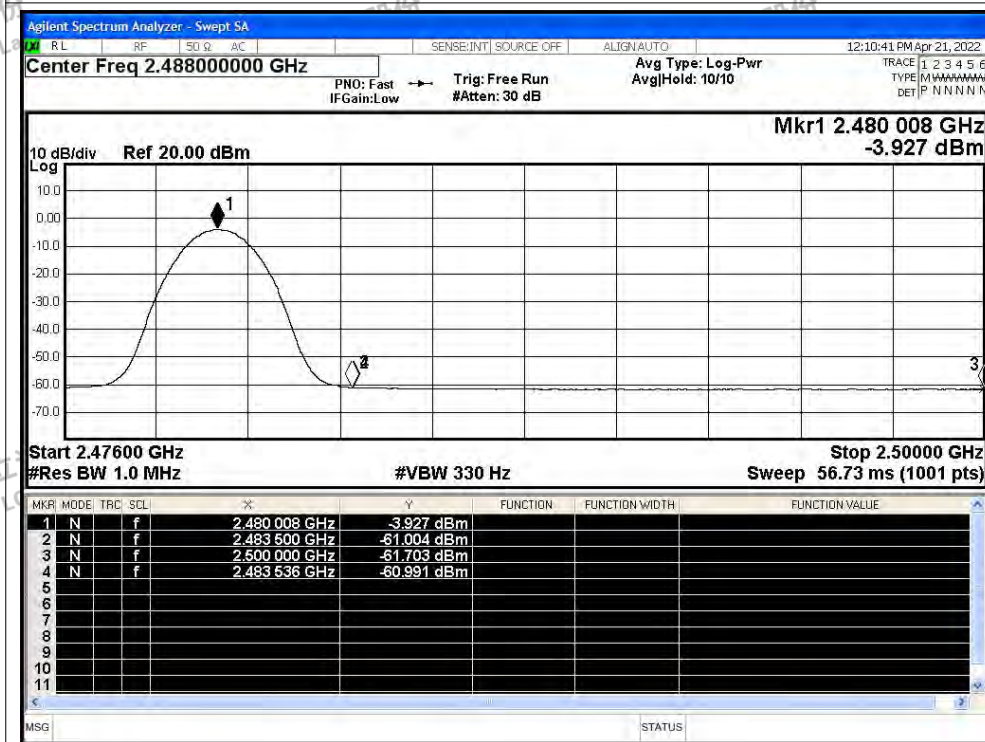
Scan code to check authenticity



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



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



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