



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: 4G Phone

Test Model: SmartVision3 – KAP22000

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu



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A.1 -20dB Bandwidth

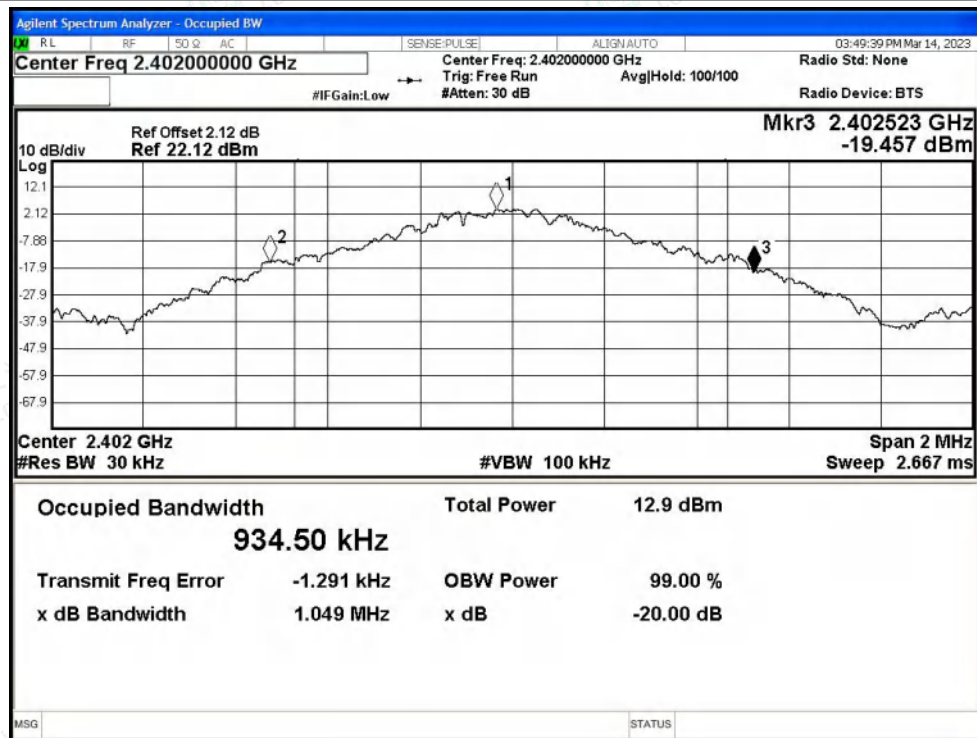
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.049	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.044	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.032	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.285	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.314	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.306	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.312	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.313	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.309	N/A	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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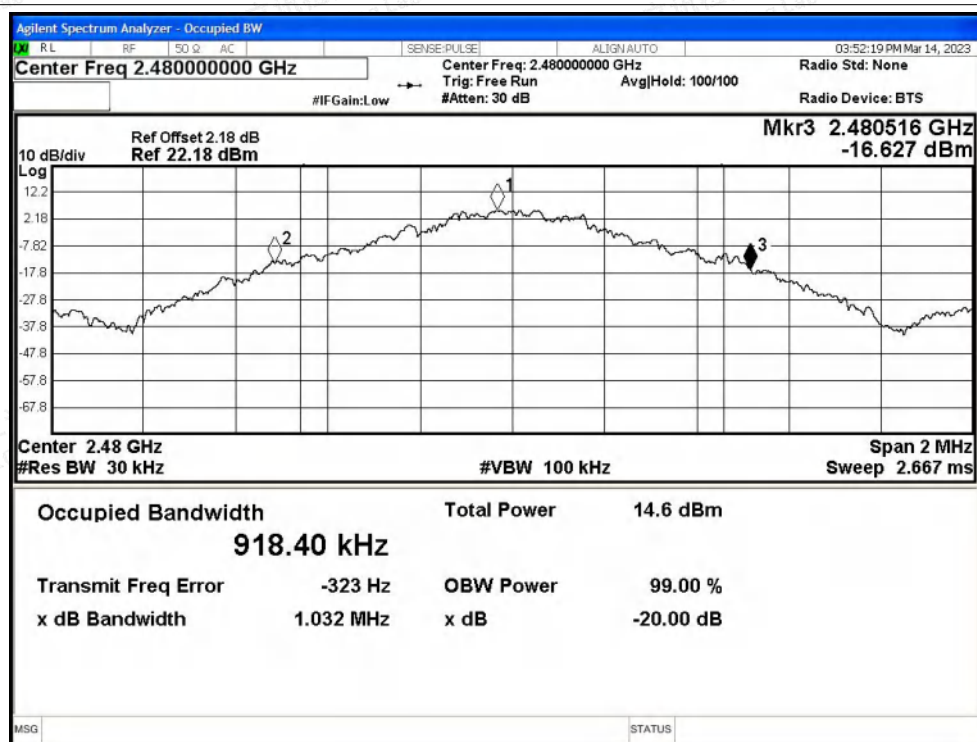
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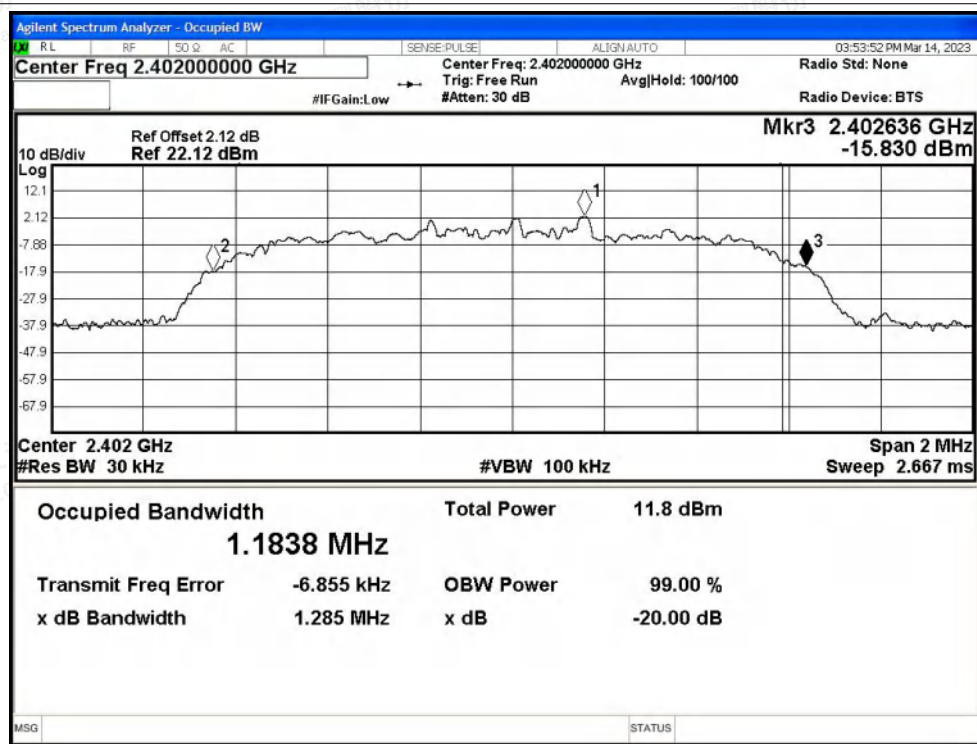
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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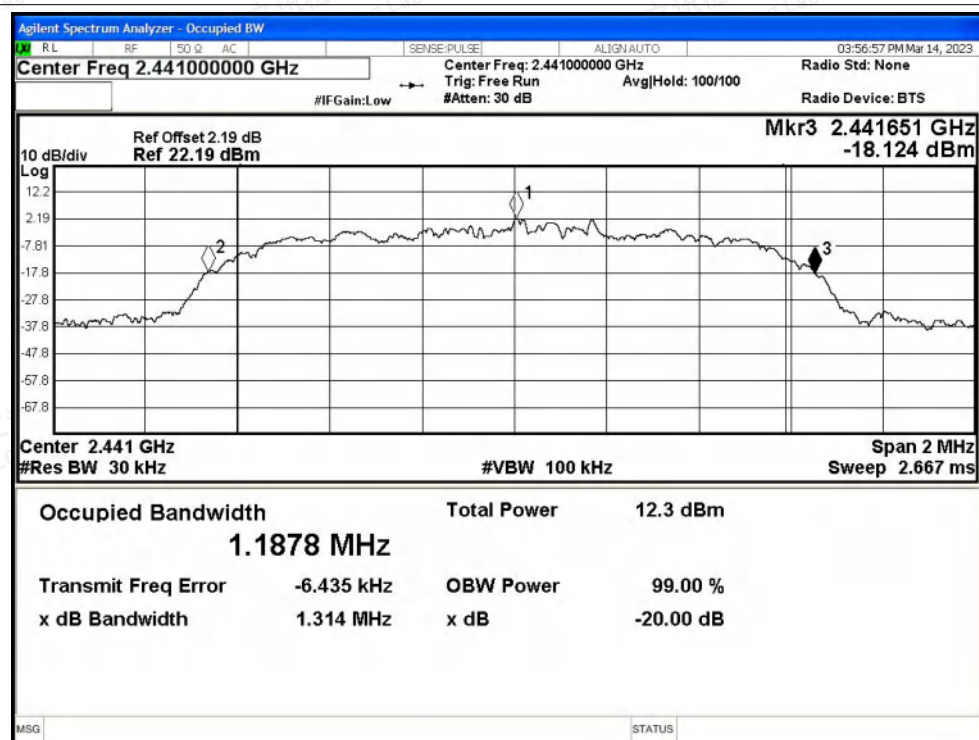
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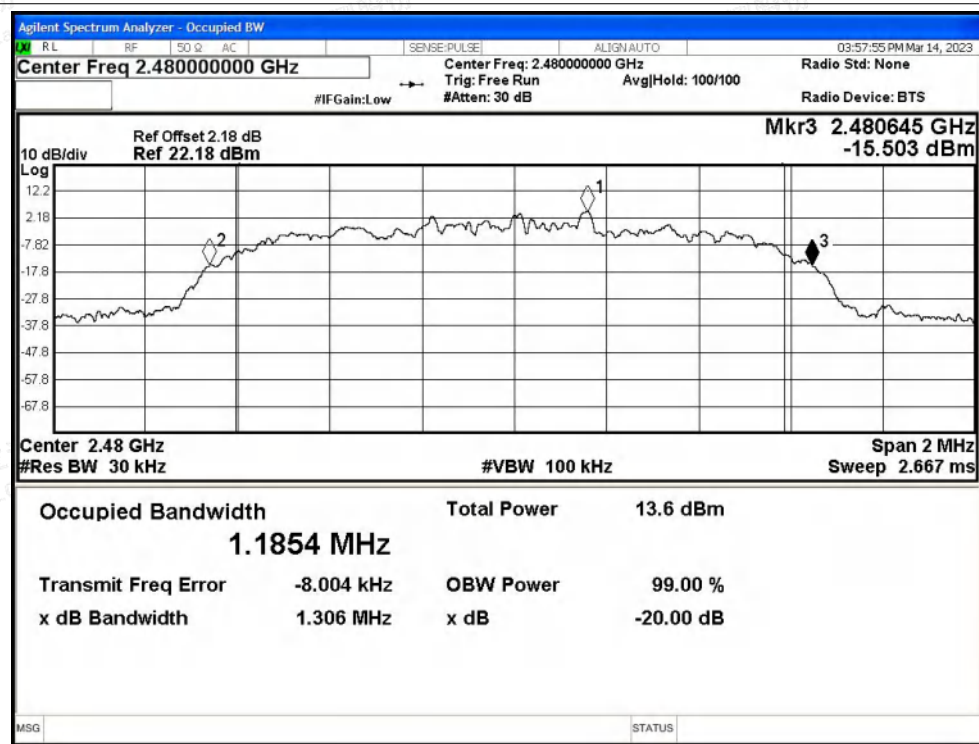
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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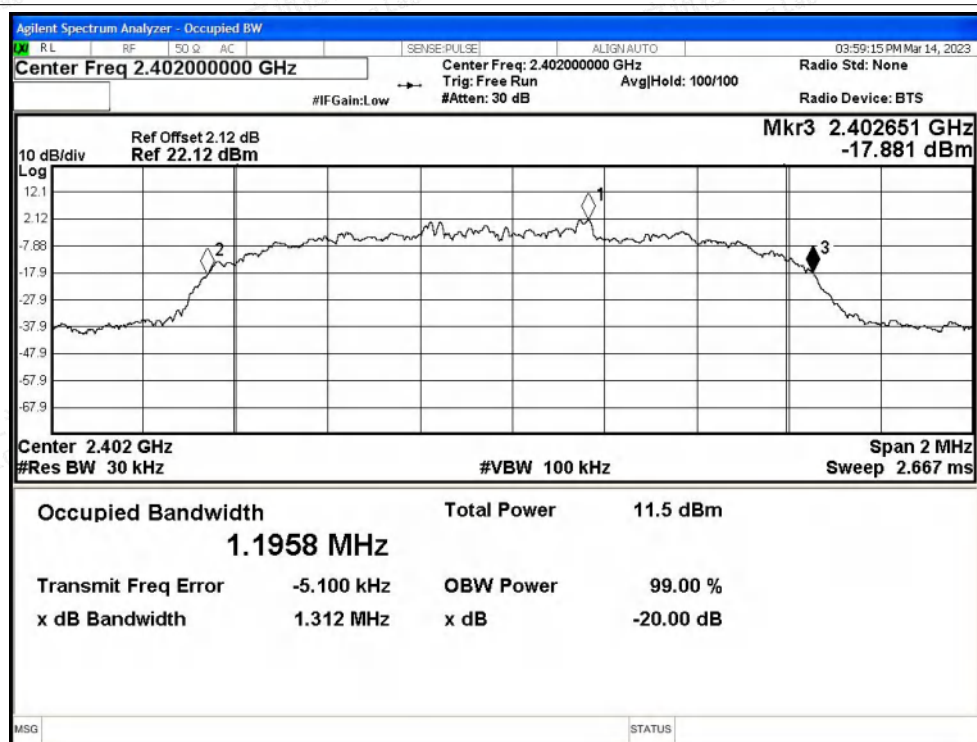
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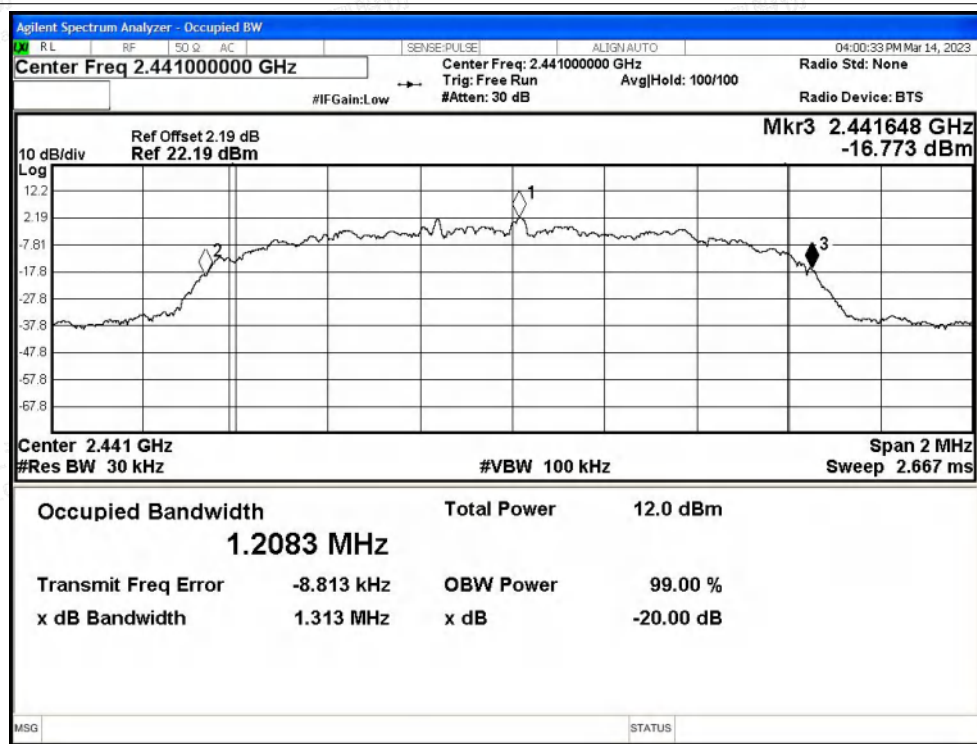
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



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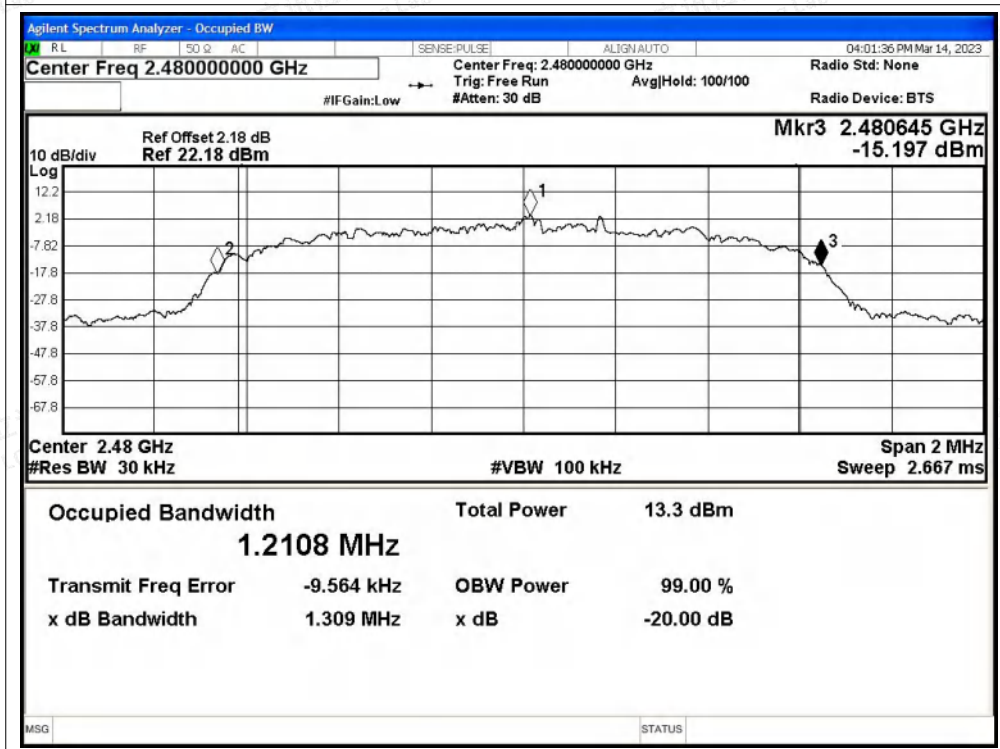
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-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	7.20	21	Pass
NVNT	1-DH5	2441	Ant1	7.74	21	Pass
NVNT	1-DH5	2480	Ant1	8.86	21	Pass
NVNT	2-DH5	2402	Ant1	7.01	21	Pass
NVNT	2-DH5	2441	Ant1	7.52	21	Pass
NVNT	2-DH5	2480	Ant1	8.64	21	Pass
NVNT	3-DH5	2402	Ant1	6.85	21	Pass
NVNT	3-DH5	2441	Ant1	7.37	21	Pass
NVNT	3-DH5	2480	Ant1	8.48	21	Pass



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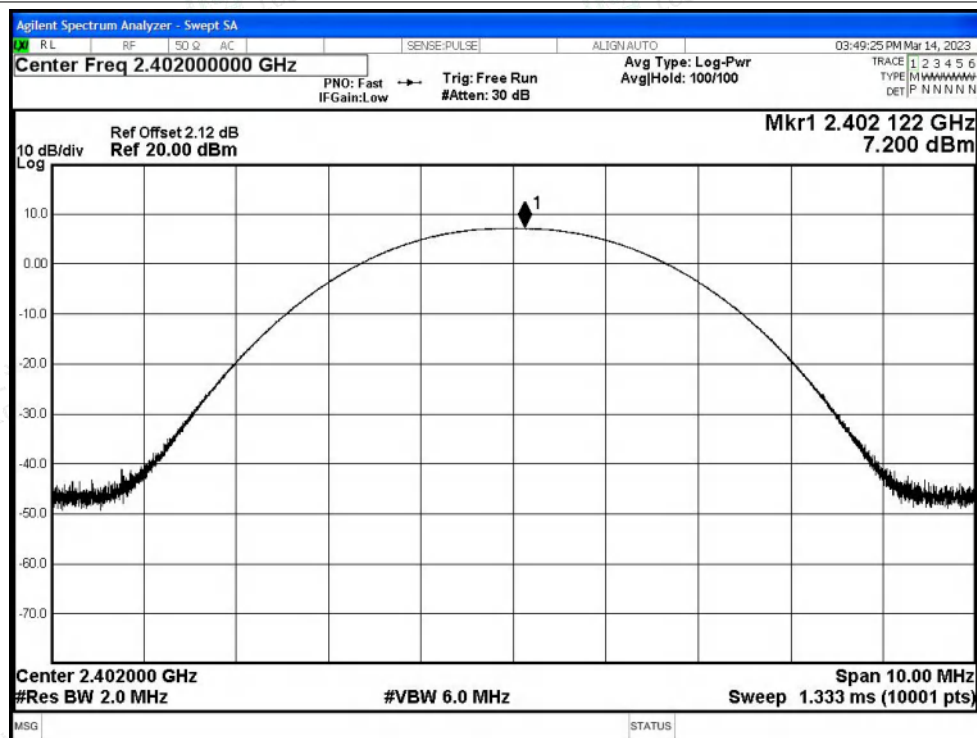
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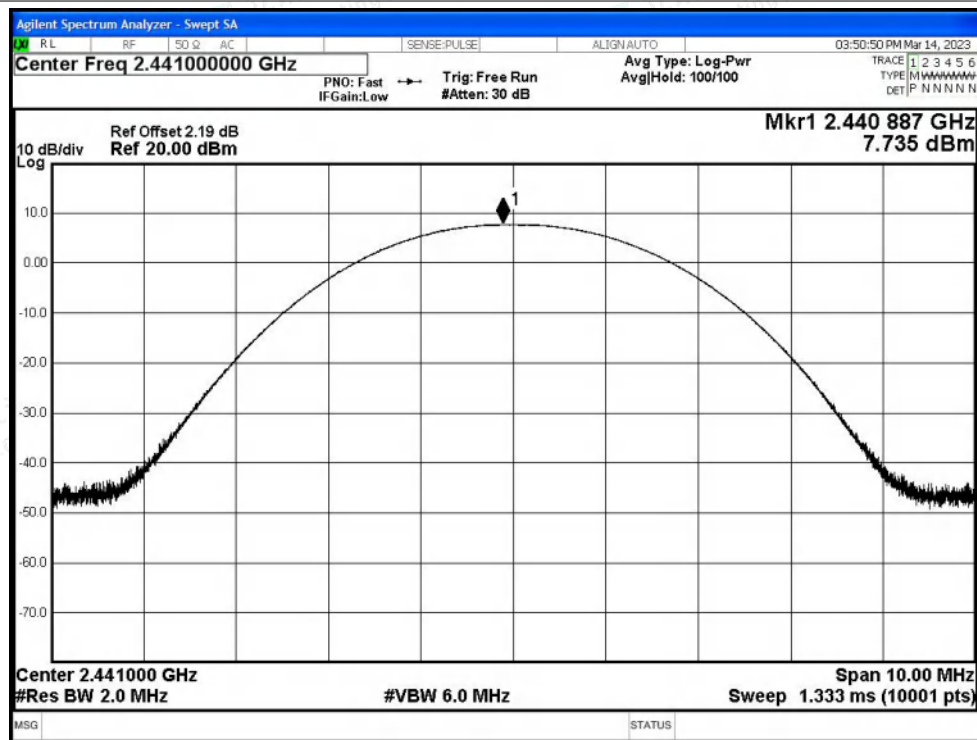


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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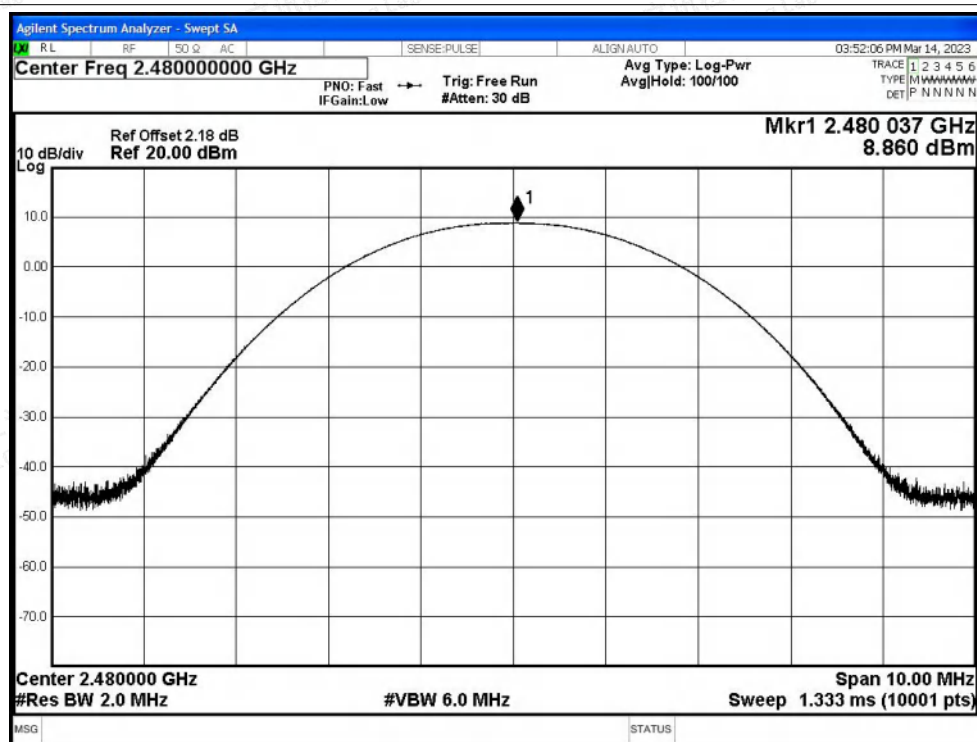
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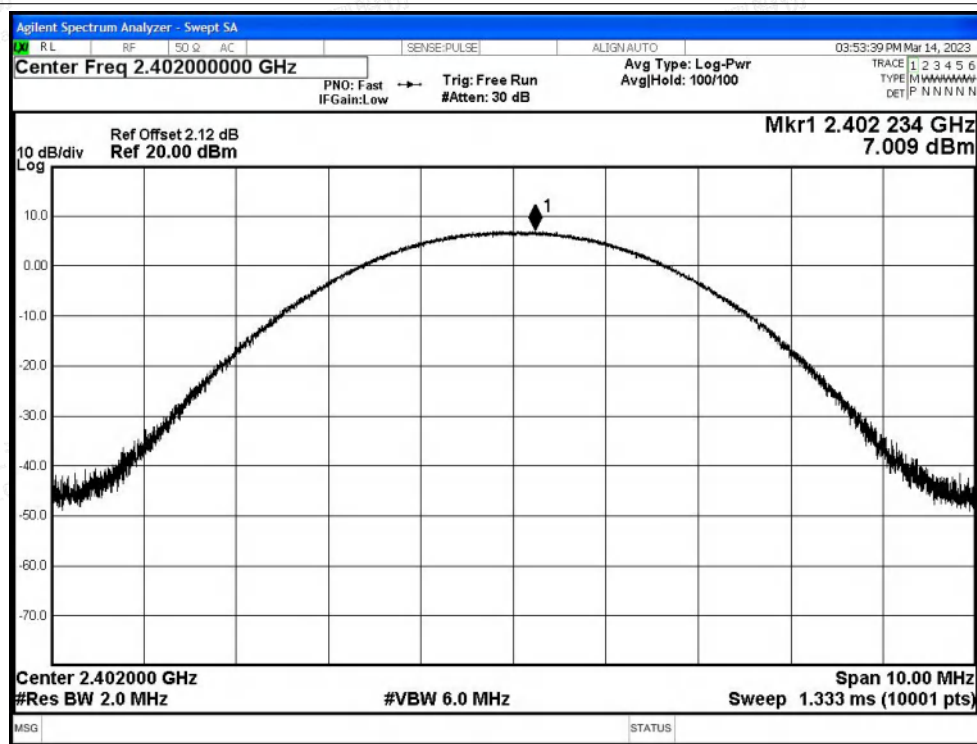
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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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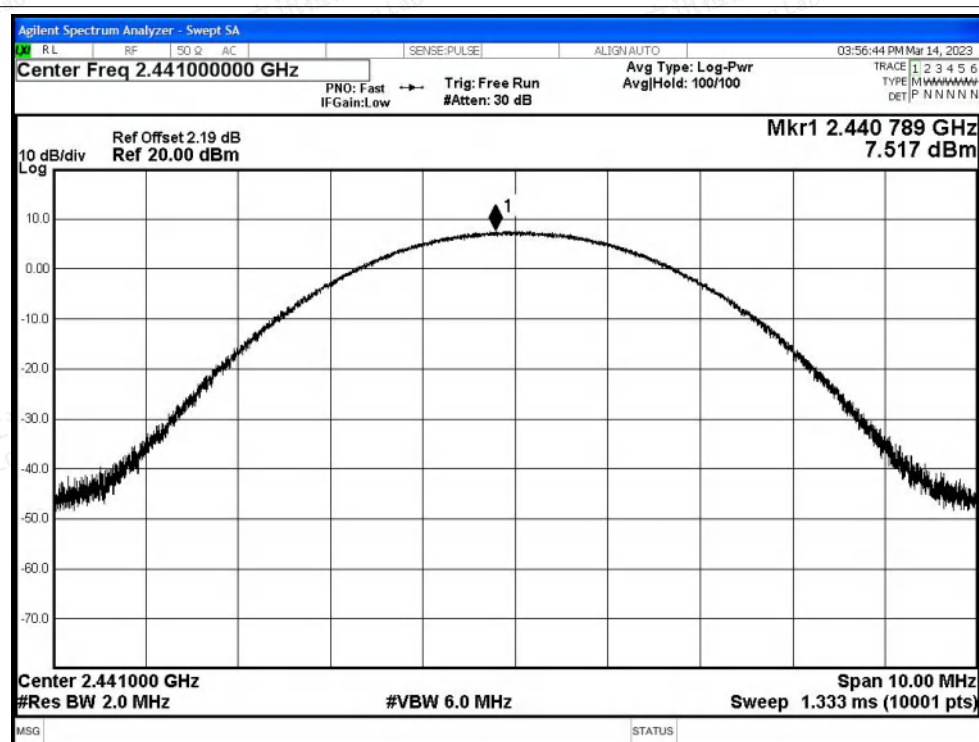
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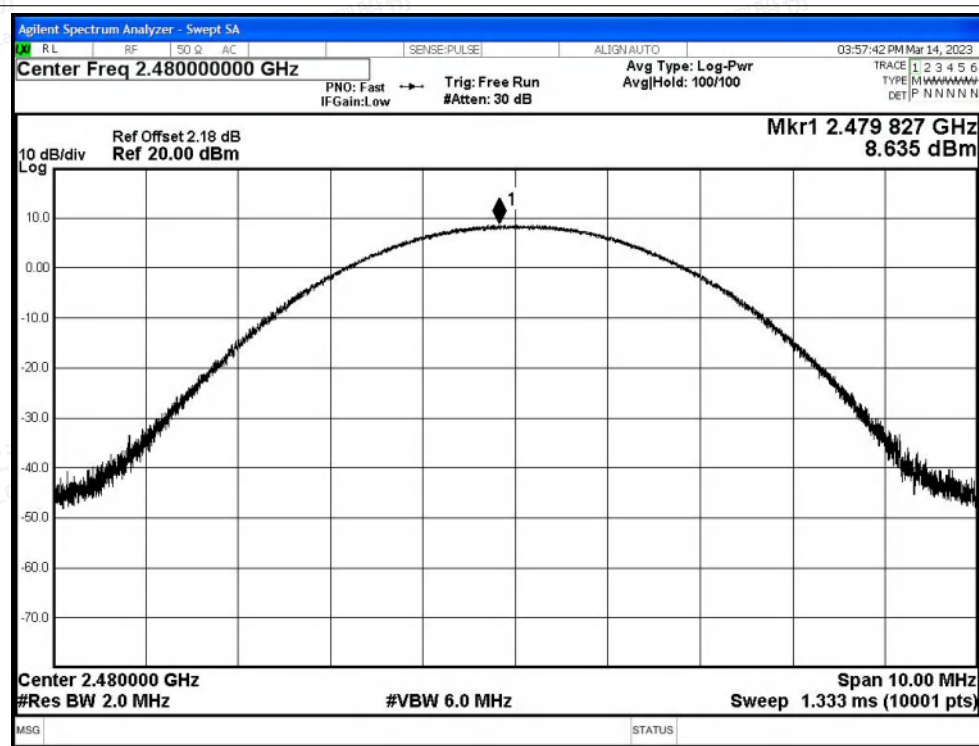
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Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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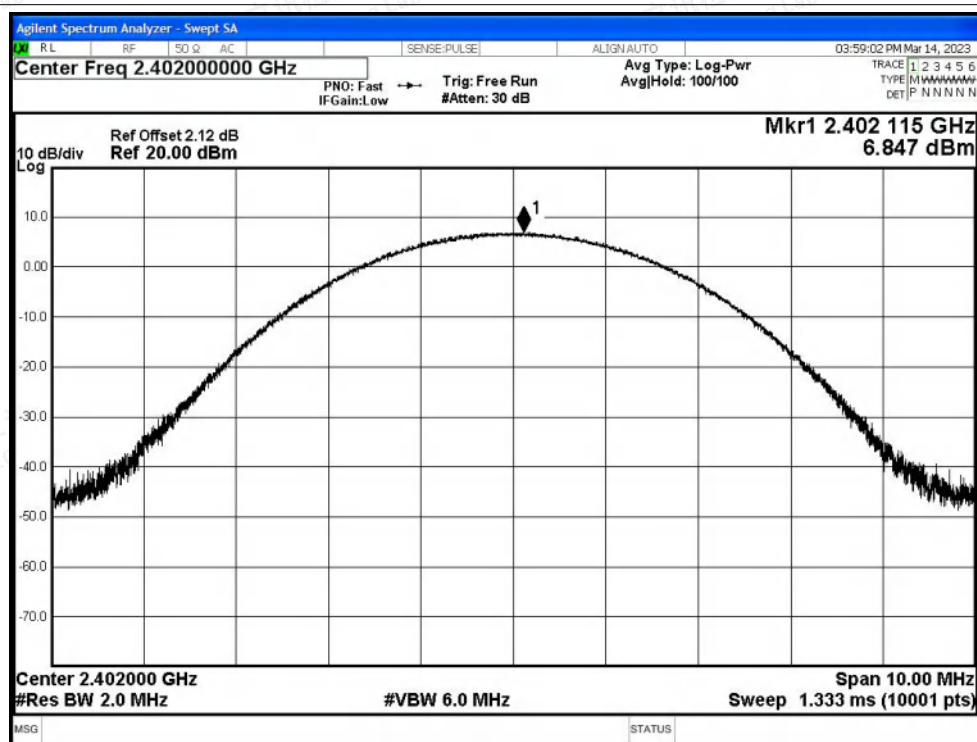
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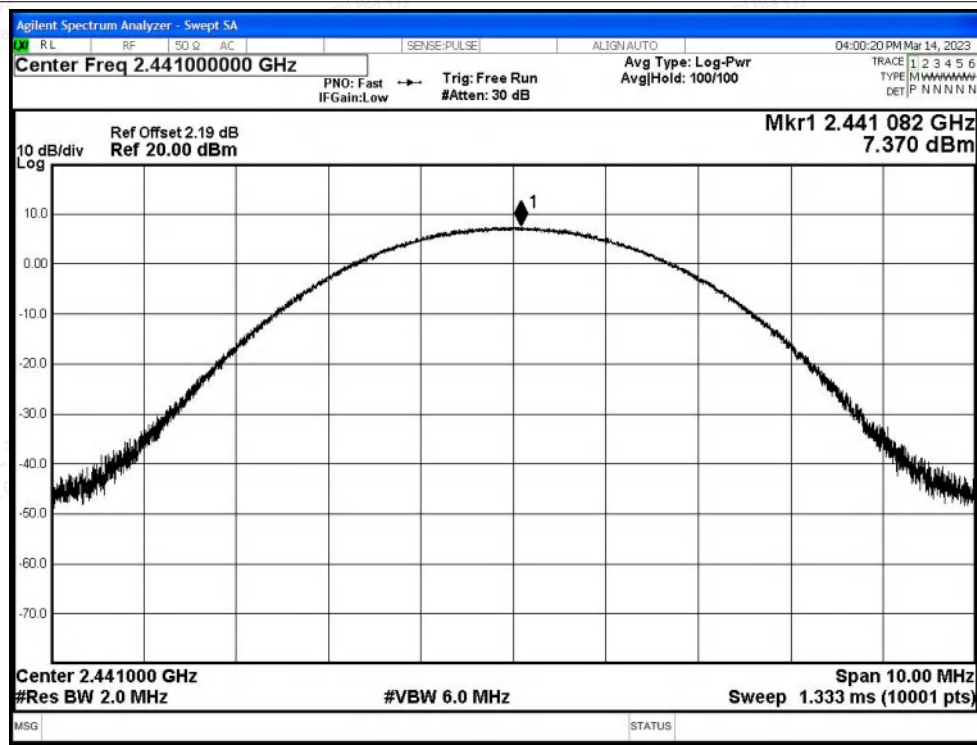
Scan code to check authenticity



Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

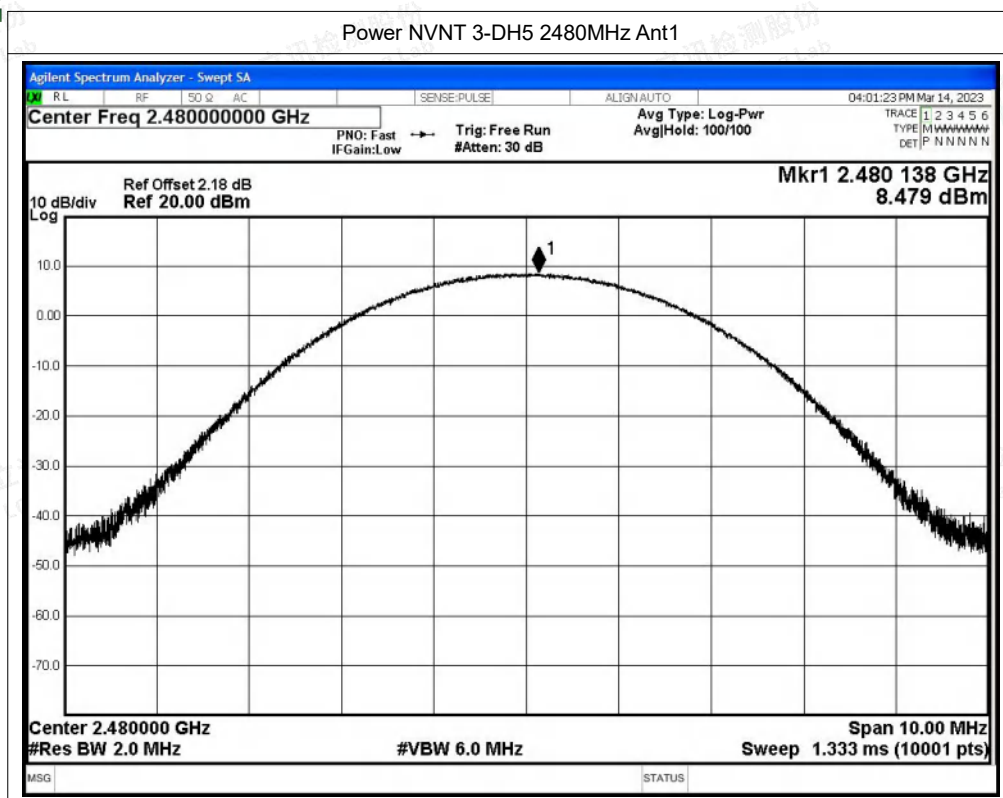


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.956	2402.988	1.032	0.700	Pass
NVNT	2-DH5	Ant1	2402.074	2403.16	1.086	0.876	Pass
NVNT	3-DH5	Ant1	2401.844	2403.018	1.174	0.876	Pass



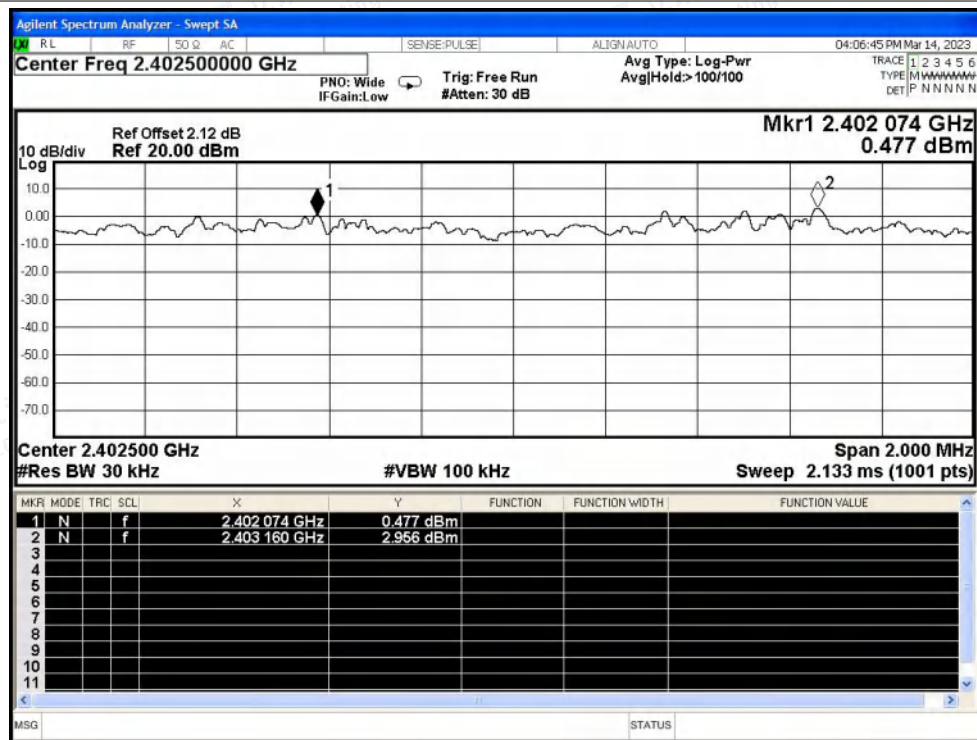


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



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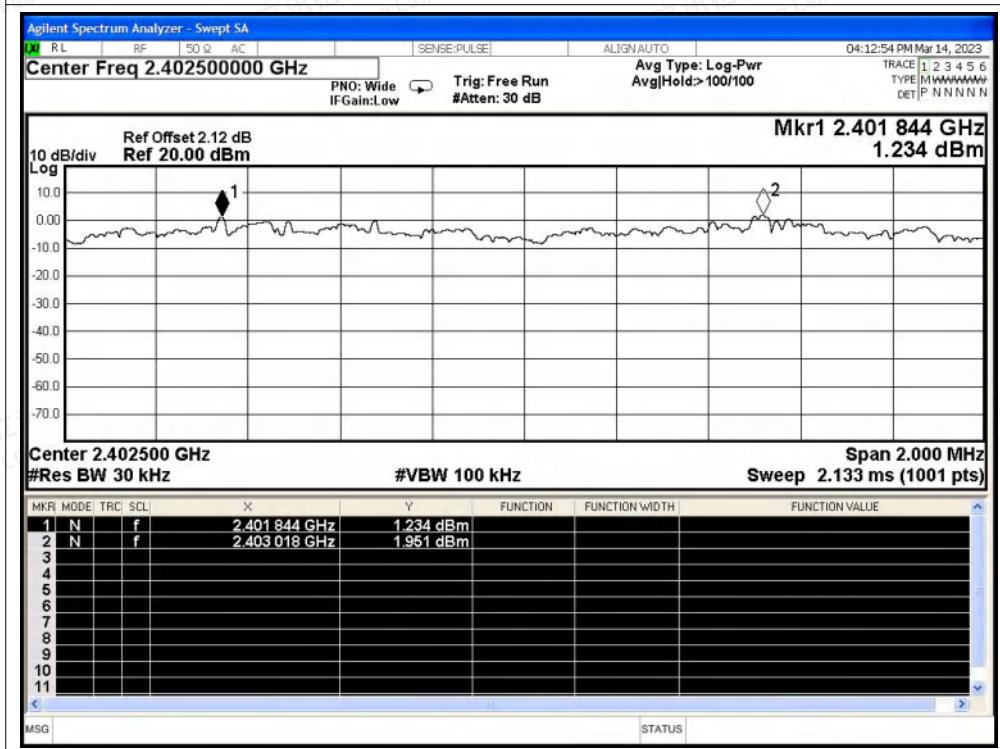
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CFS NVNT 3-DH5 2402MHz Ant1



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A.4 Dwell Time

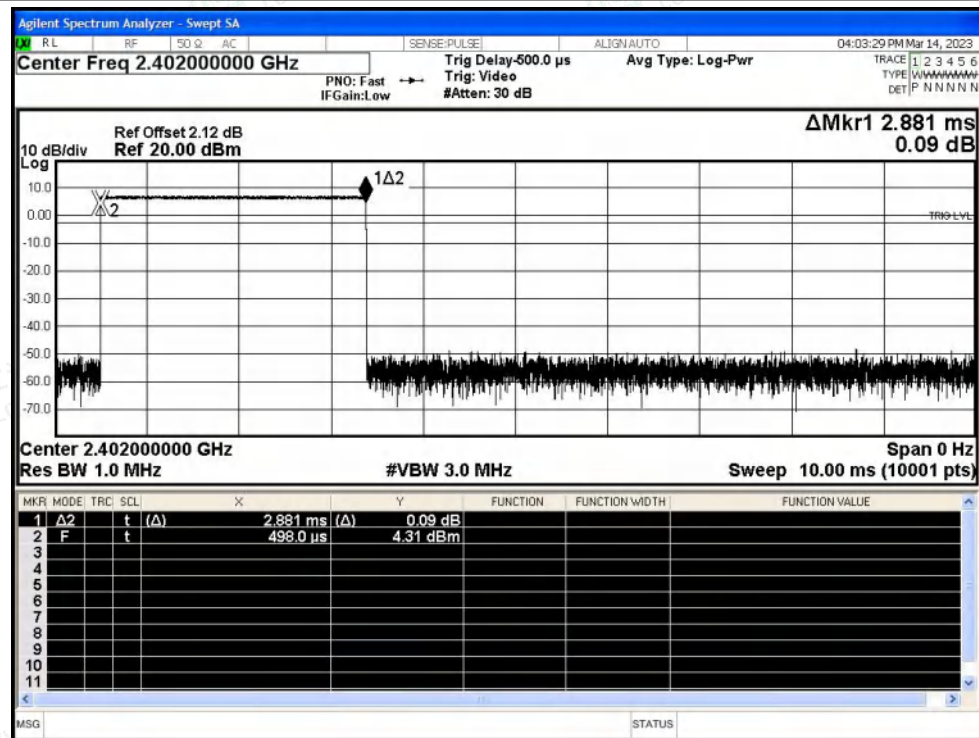
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.881	314.029	109	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.882	288.2	100	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.880	308.16	107	31600	400	Pass



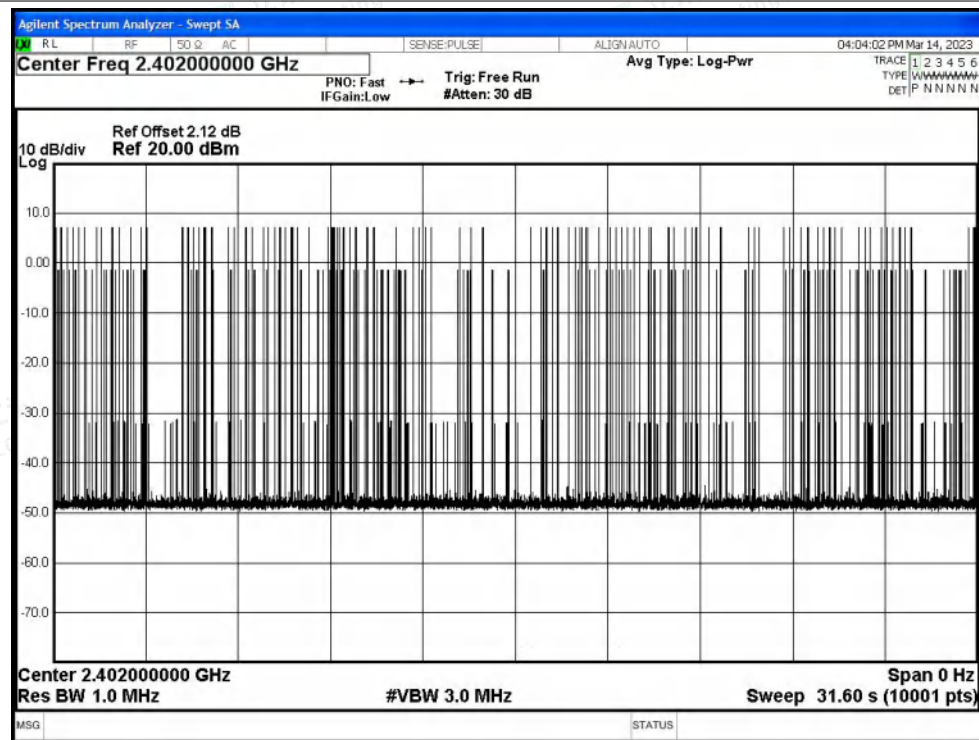


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

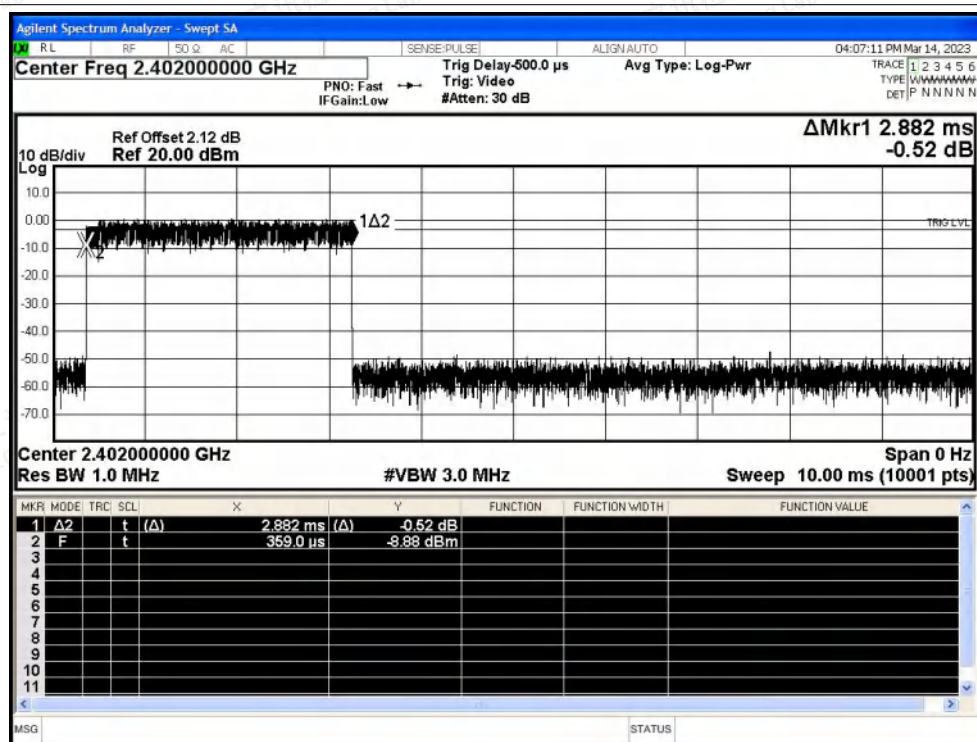
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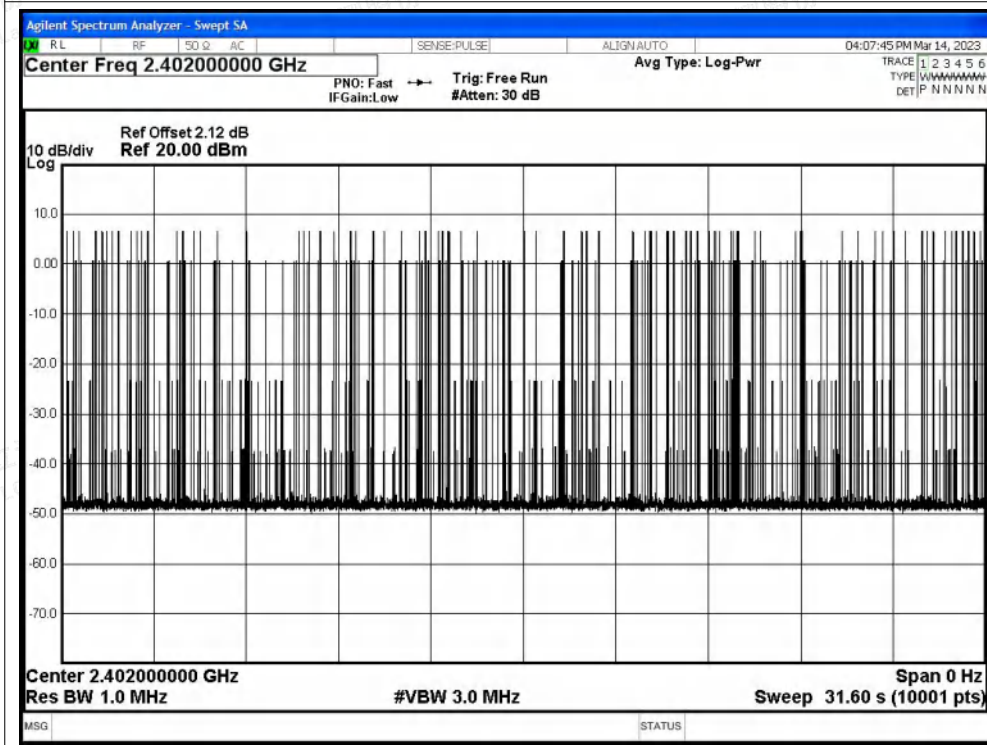
Scan code to check authenticity



Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

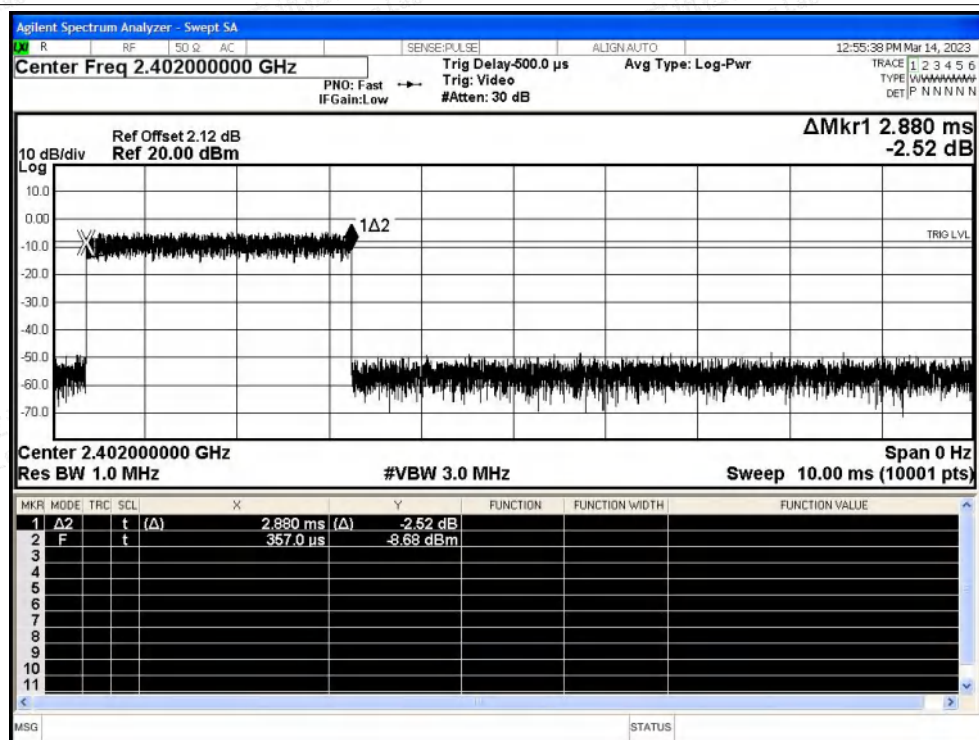
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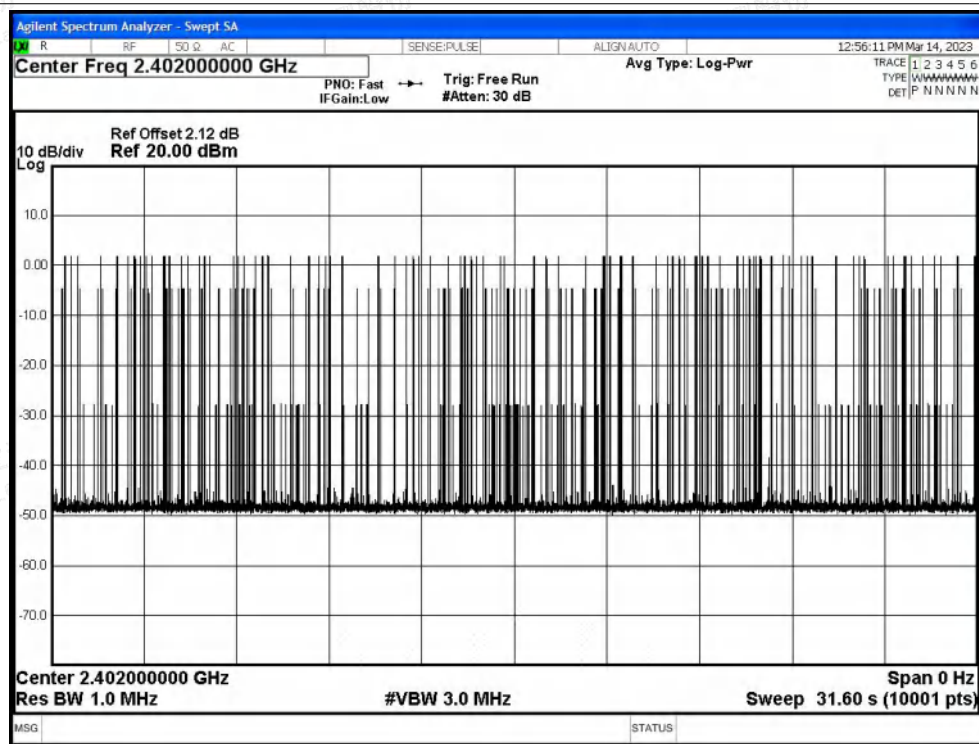
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

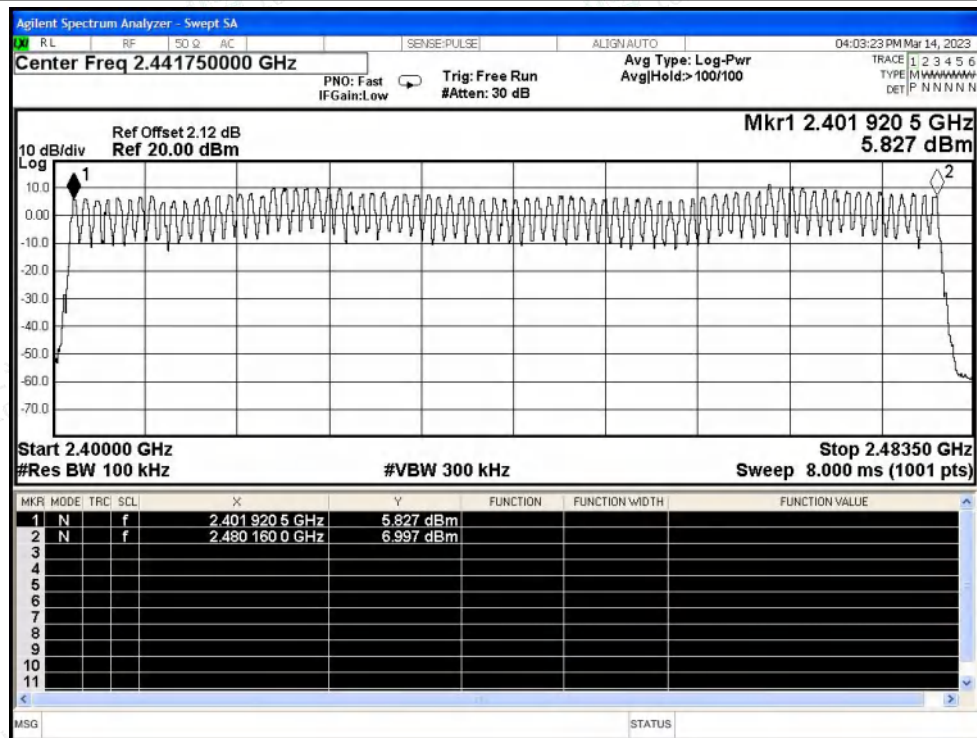
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



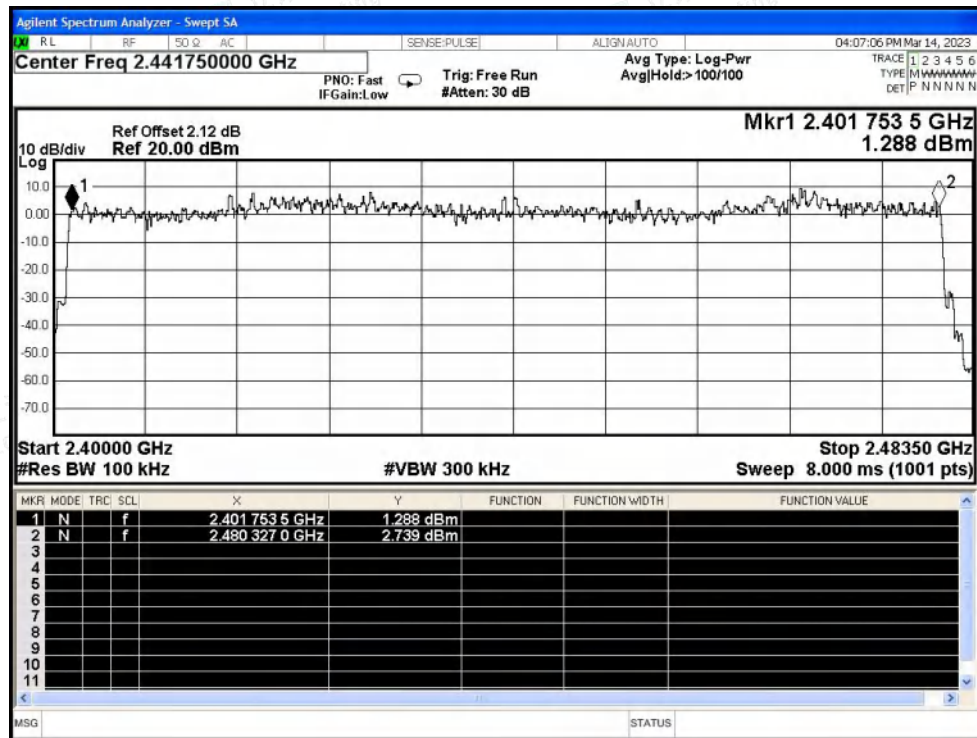


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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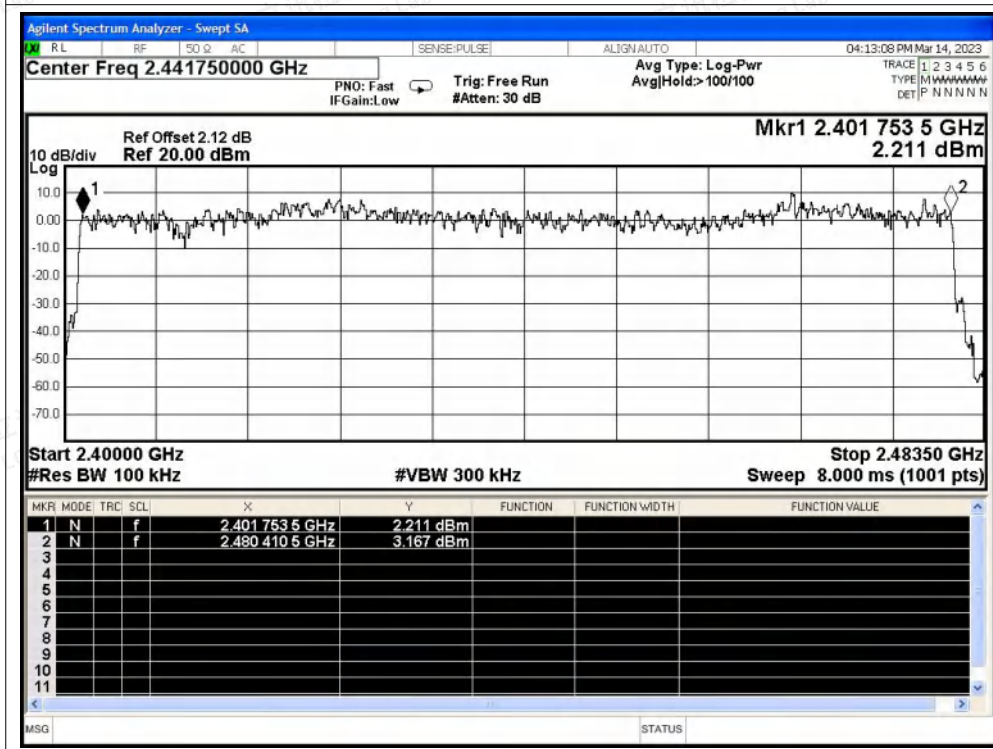
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Hopping No. NVNT 3-DH5 2402MHz Ant1



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A.6 Band Edge

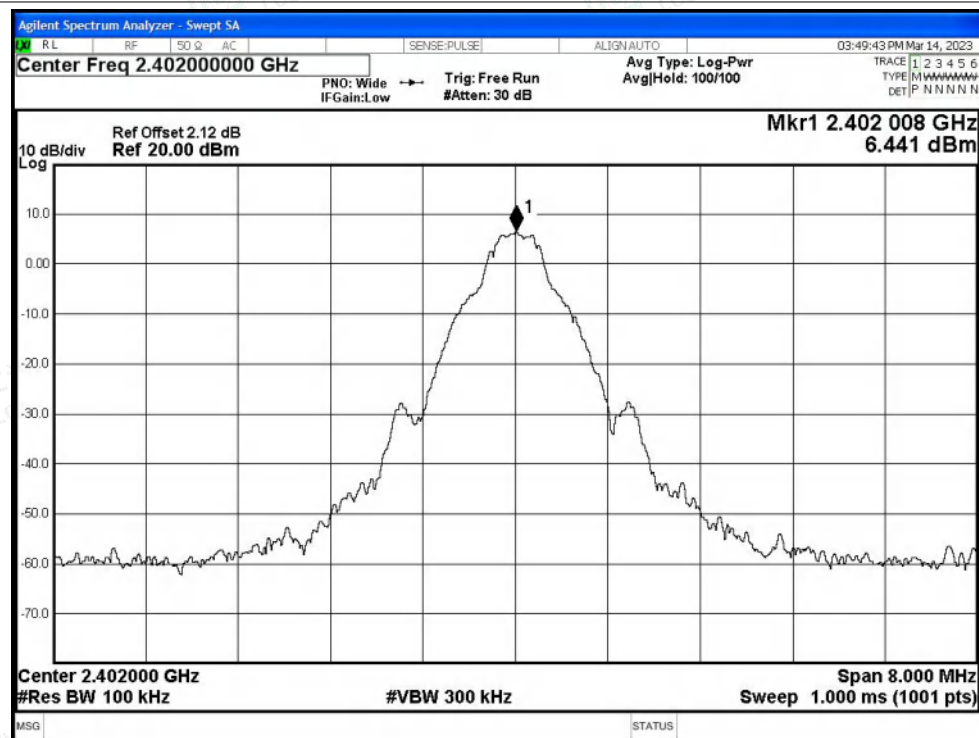
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-60.89	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-64.37	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-45.21	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-60.94	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-45.9	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-57.83	-20	Pass



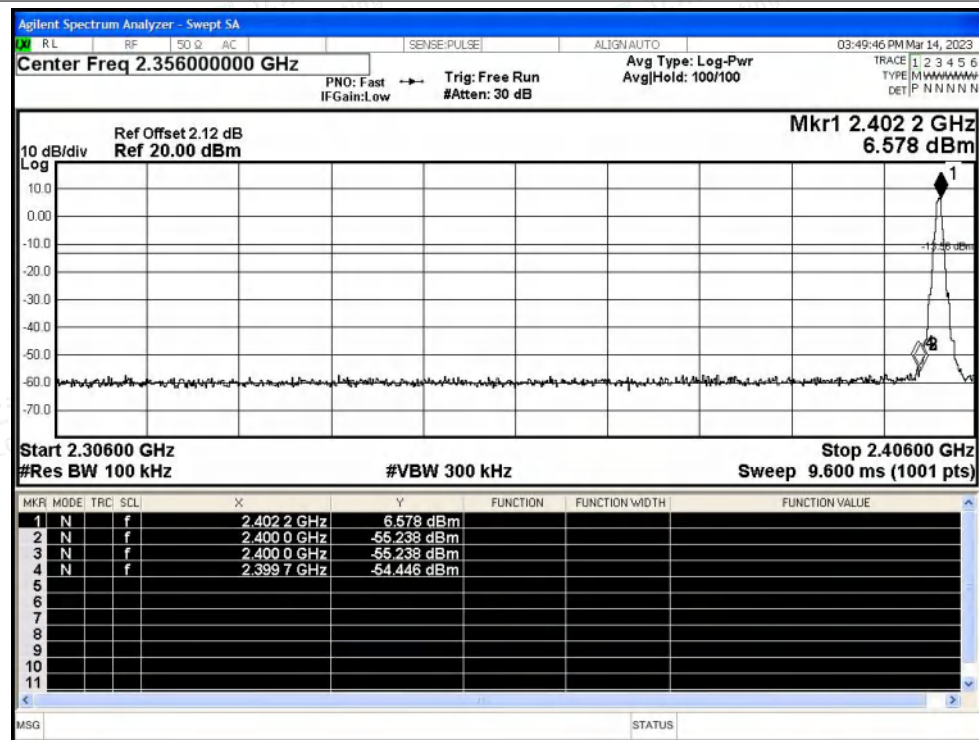


Test Graphs

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



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



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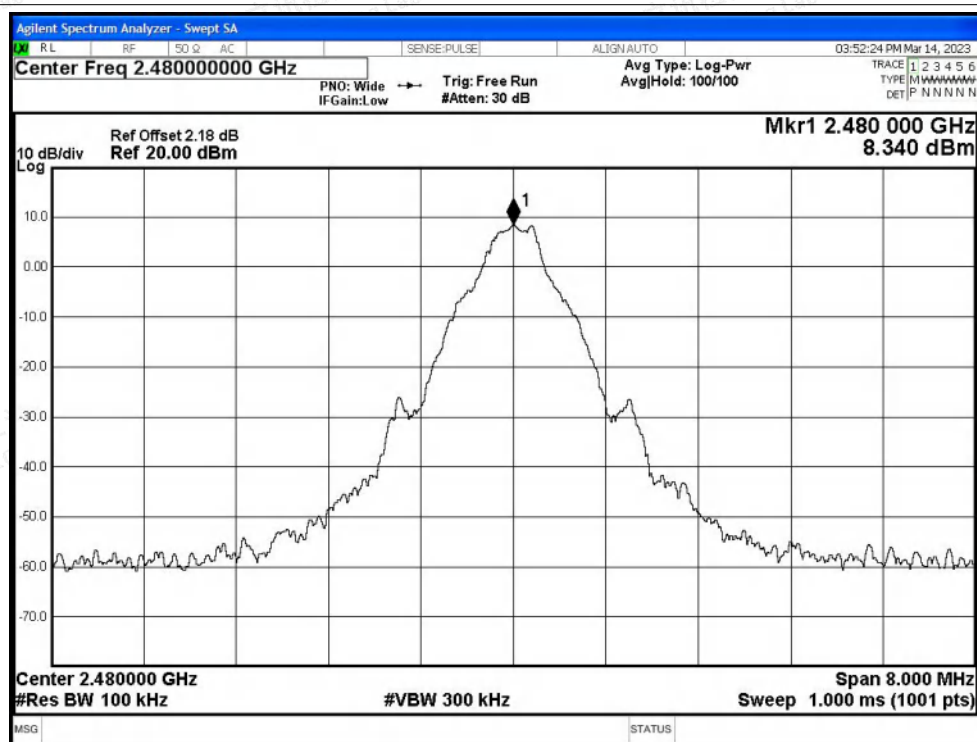
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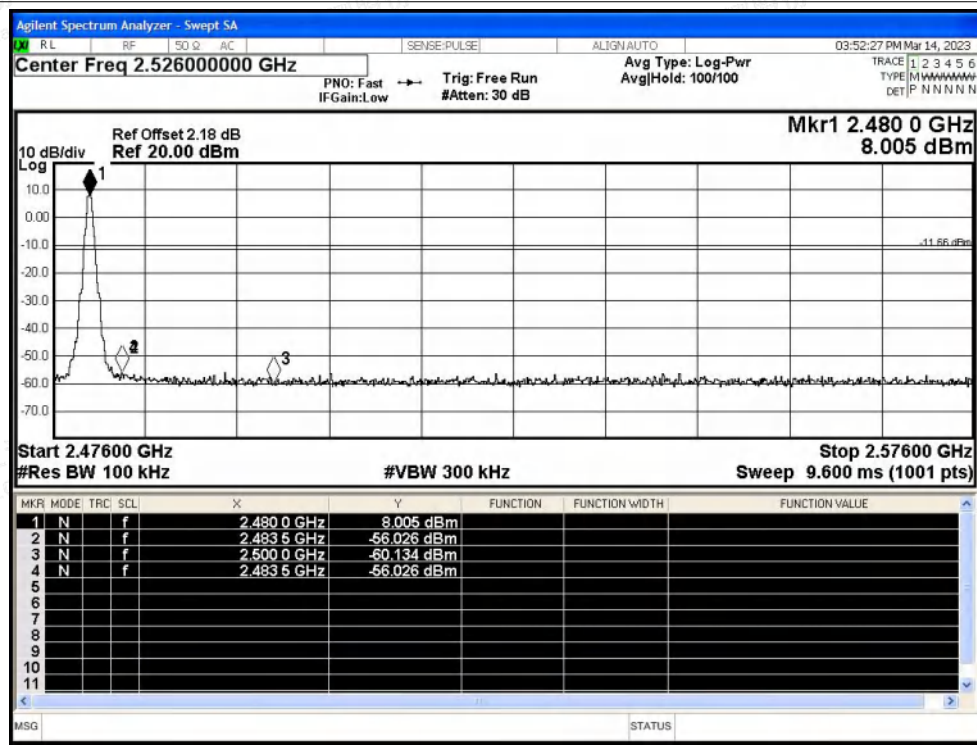
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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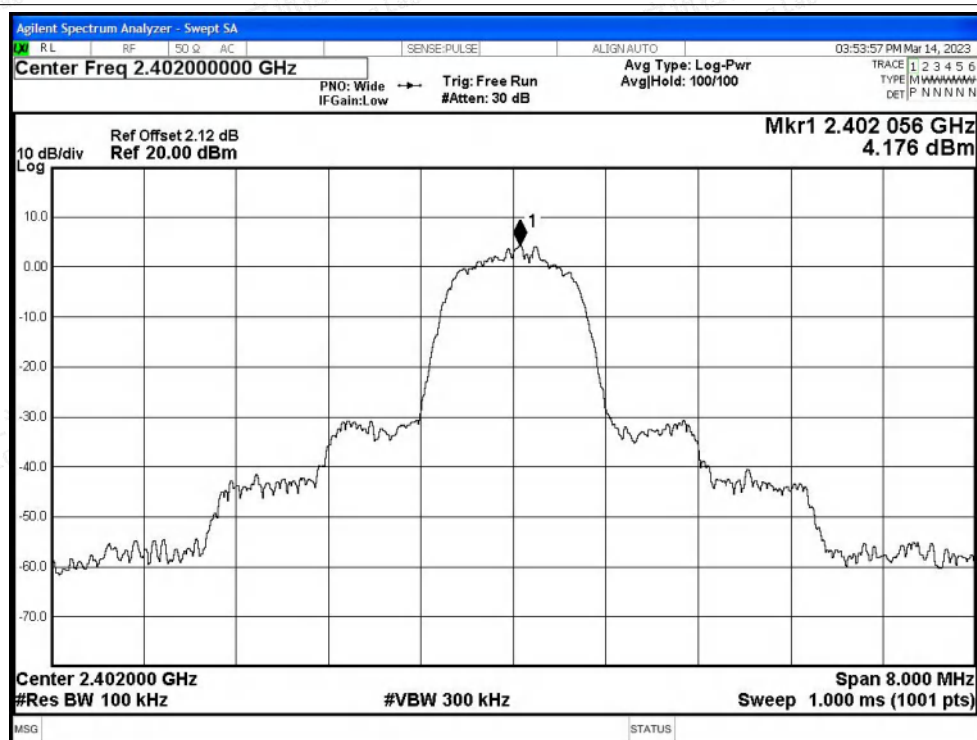
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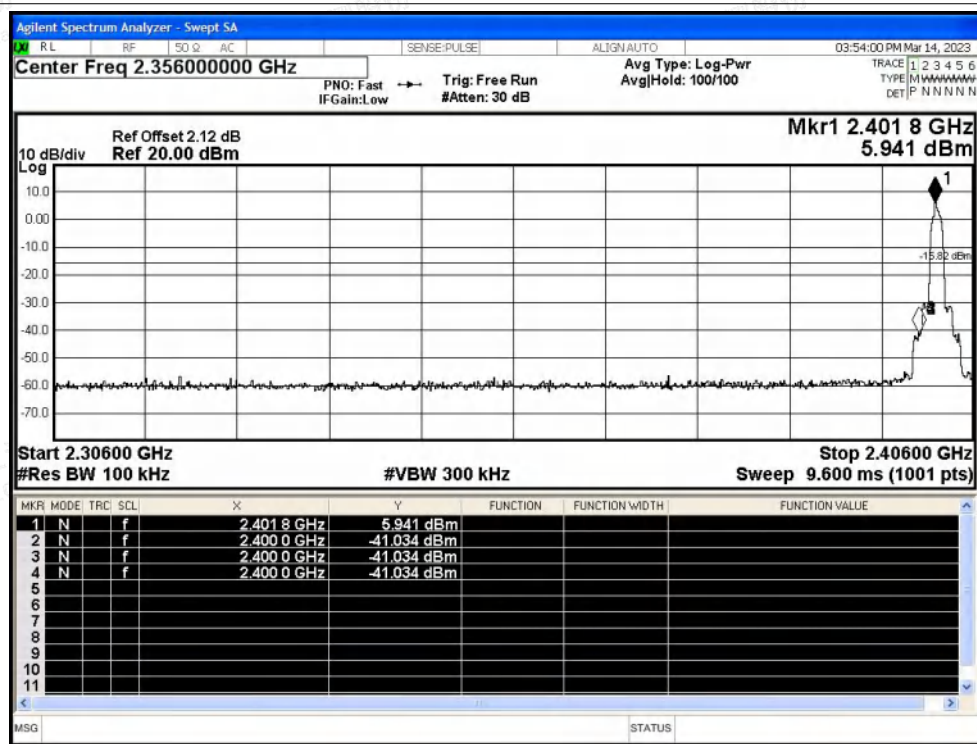
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

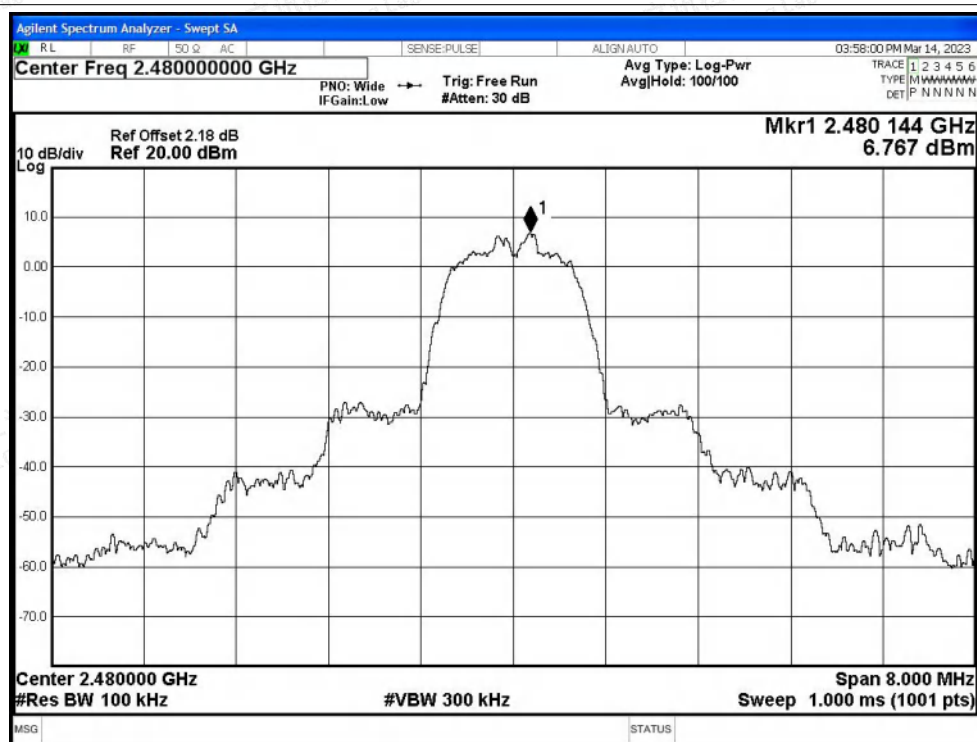
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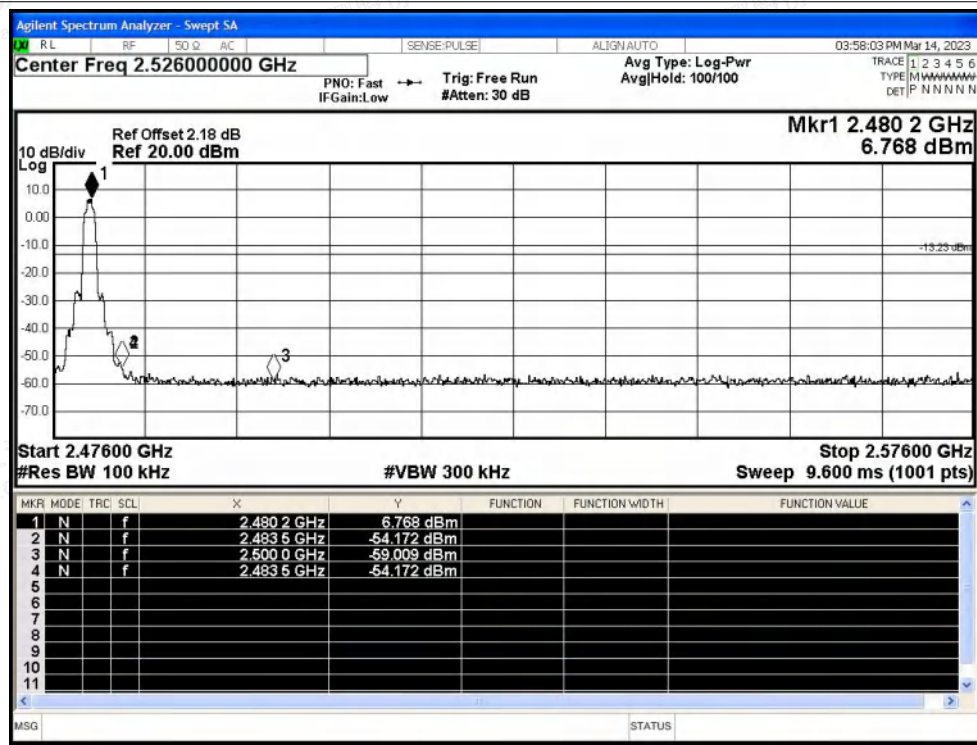
Scan code to check authenticity



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



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



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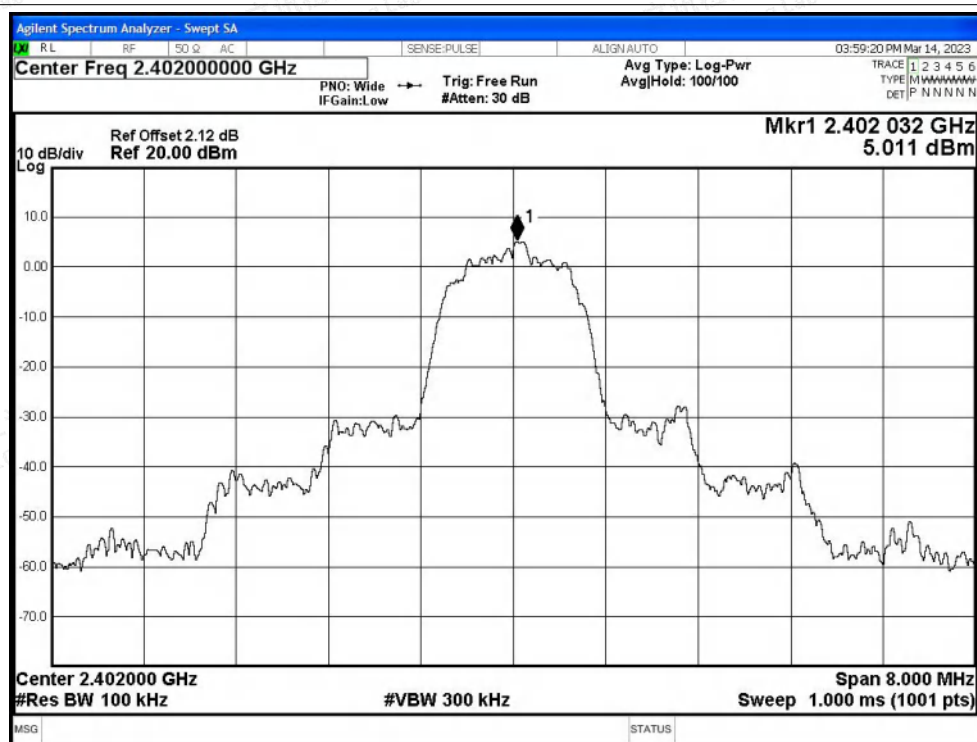
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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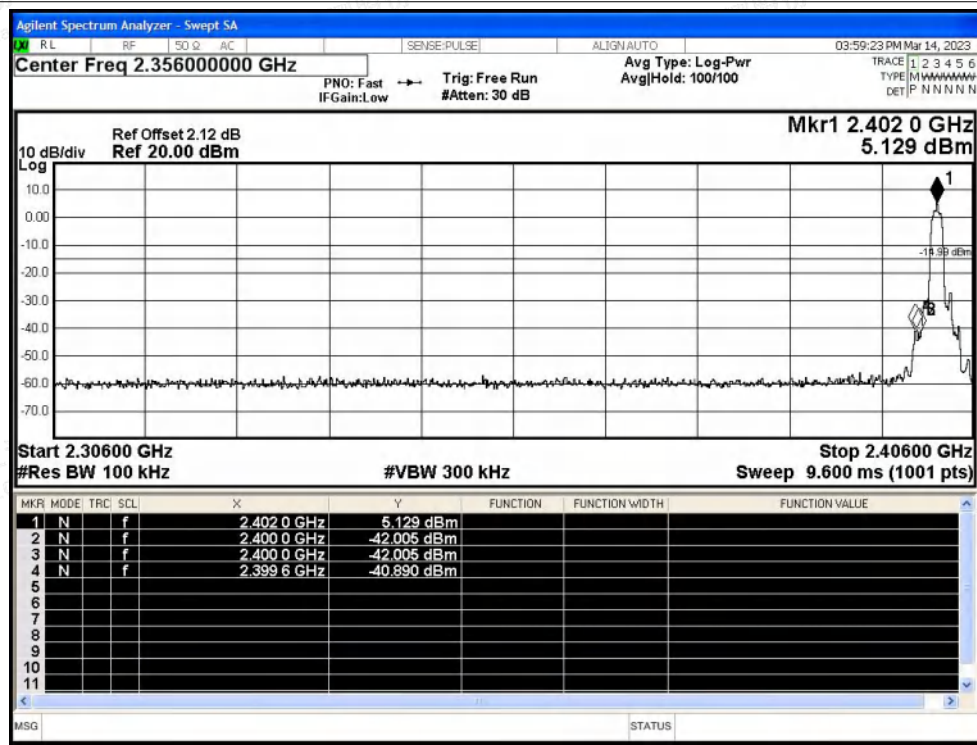
Scan code to check authenticity



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



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



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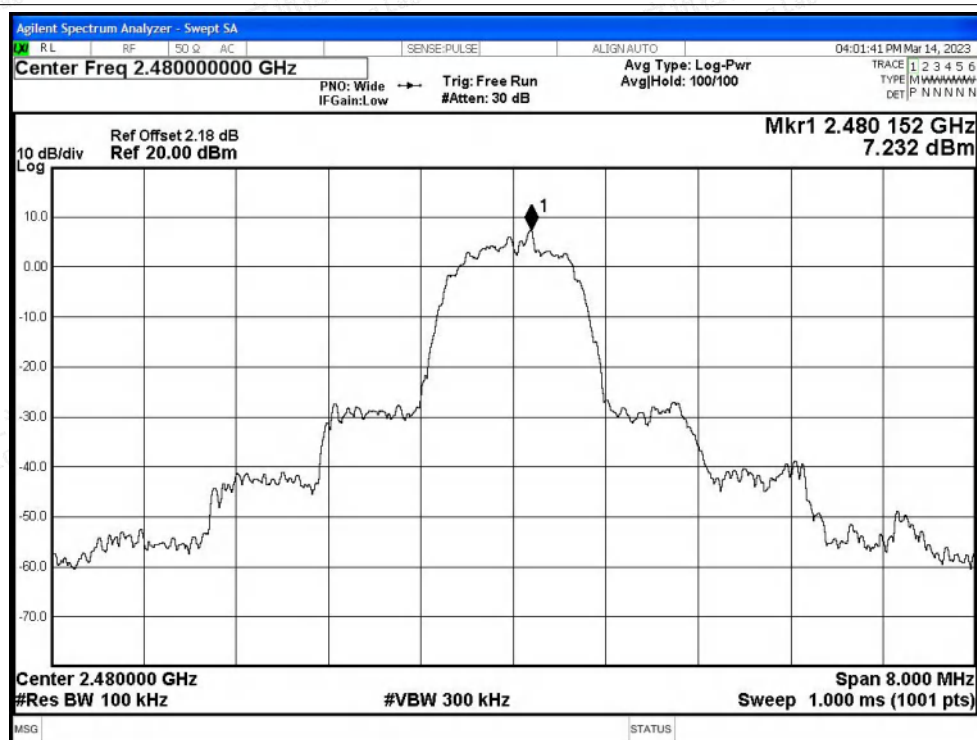
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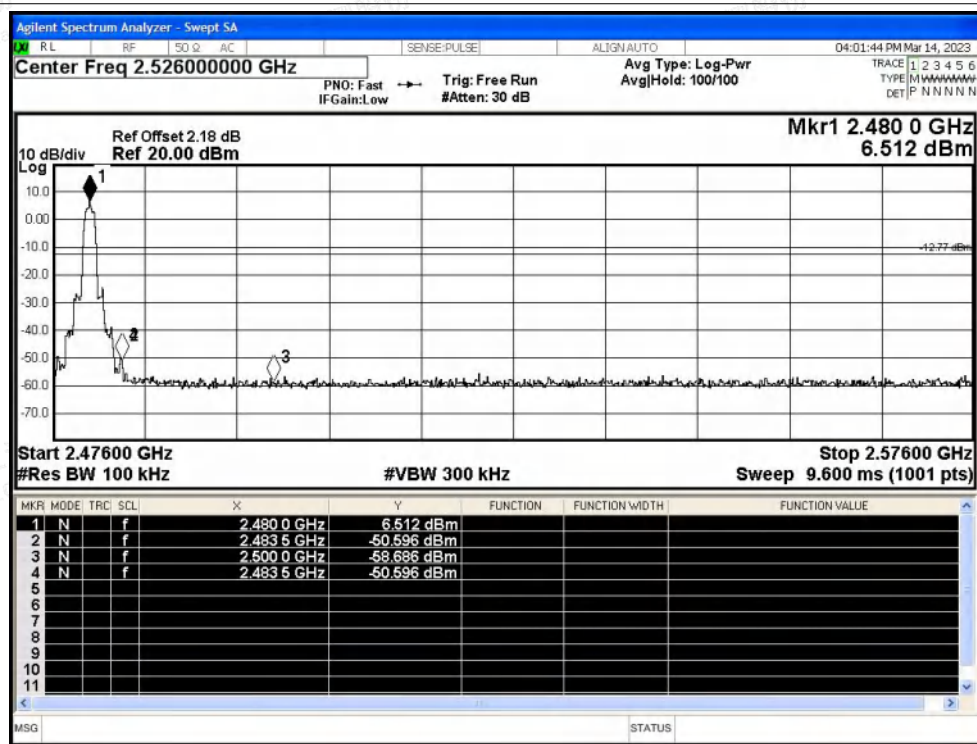
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



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**(Hopping)**

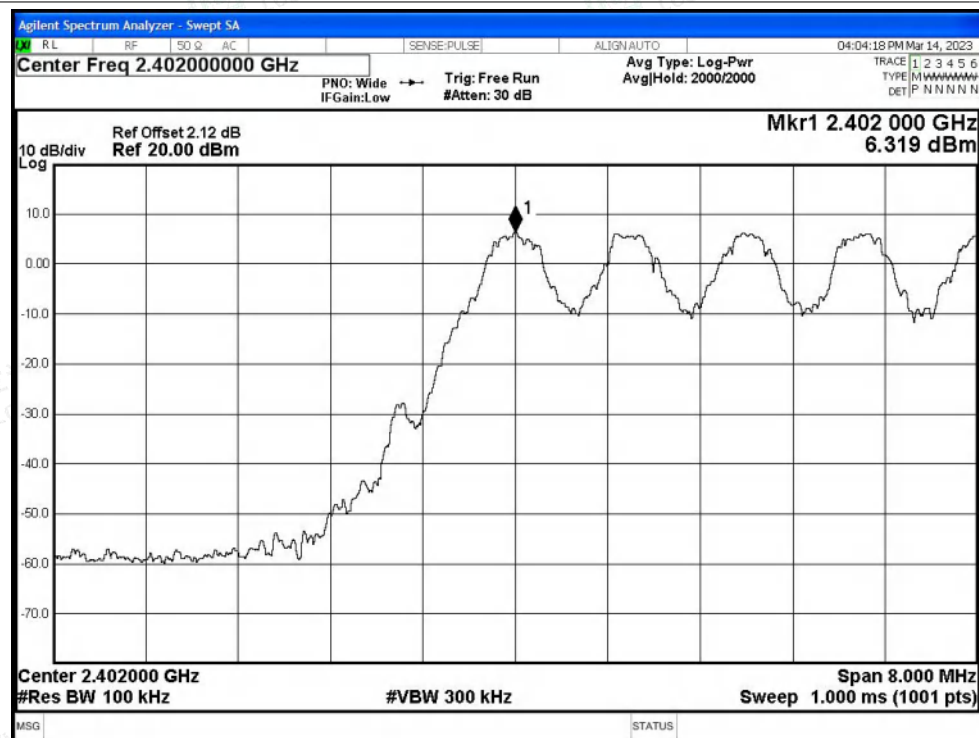
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-62.25	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.55	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-61.91	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-61.65	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-60.07	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-58.4	-20	Pass



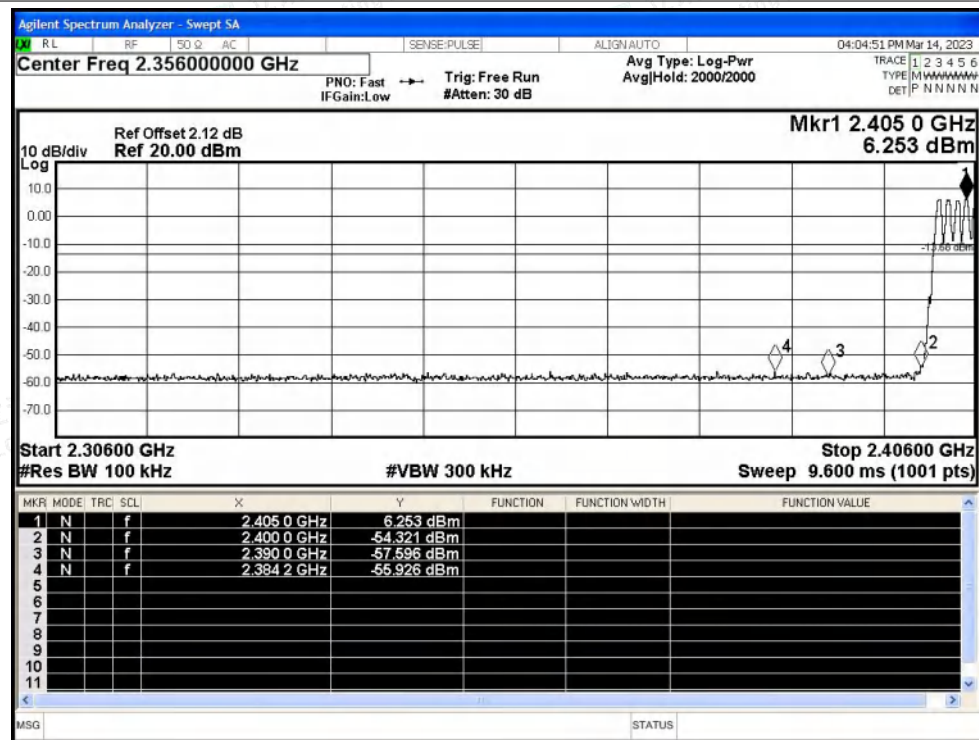


Test Graphs

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



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



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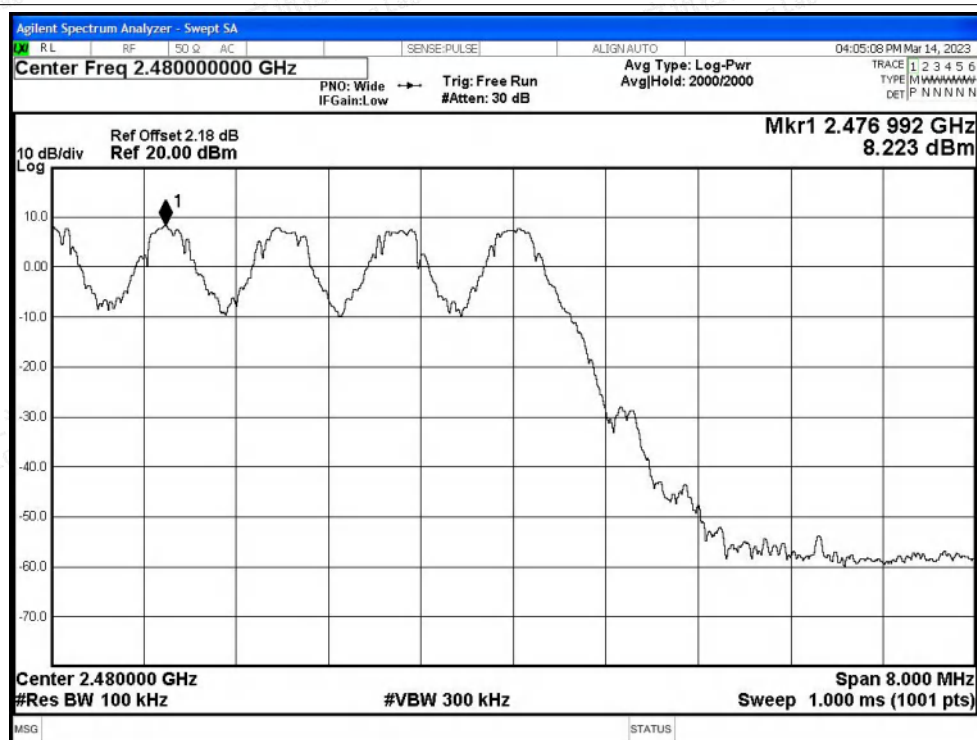
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

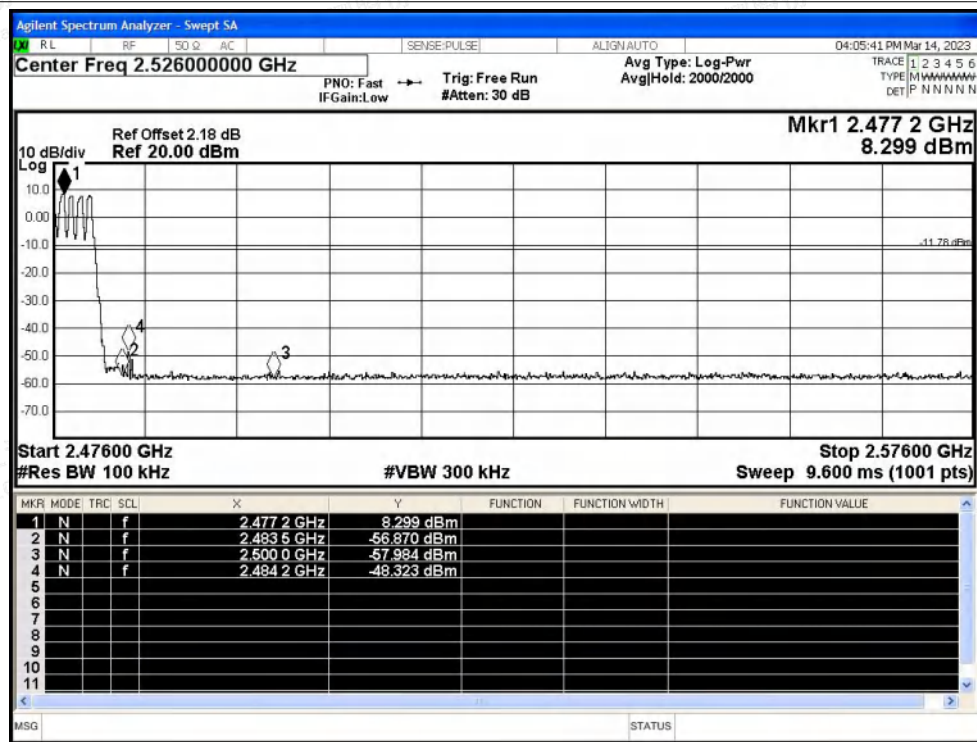
Scan code to check authenticity



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



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



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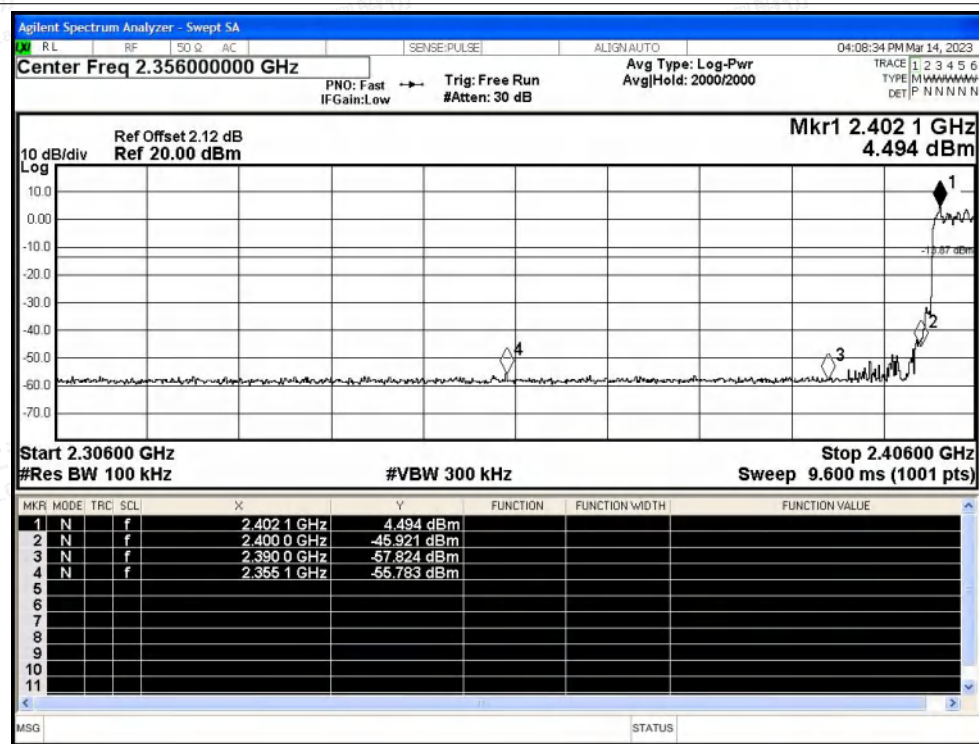
Scan code to check authenticity



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



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



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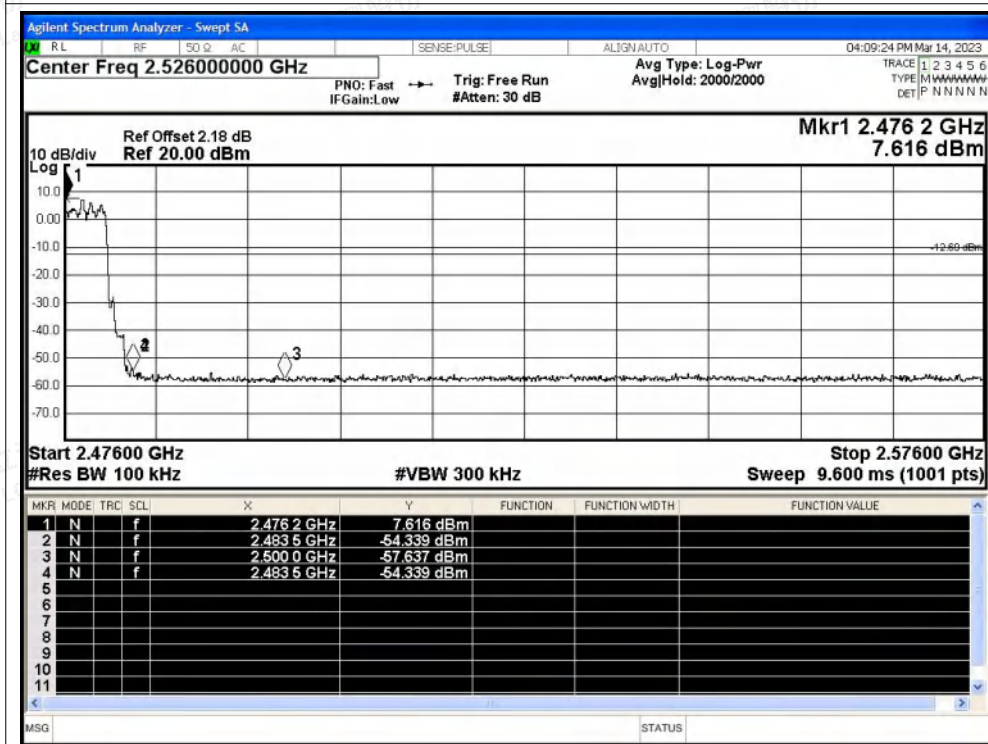
Scan code to check authenticity



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



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



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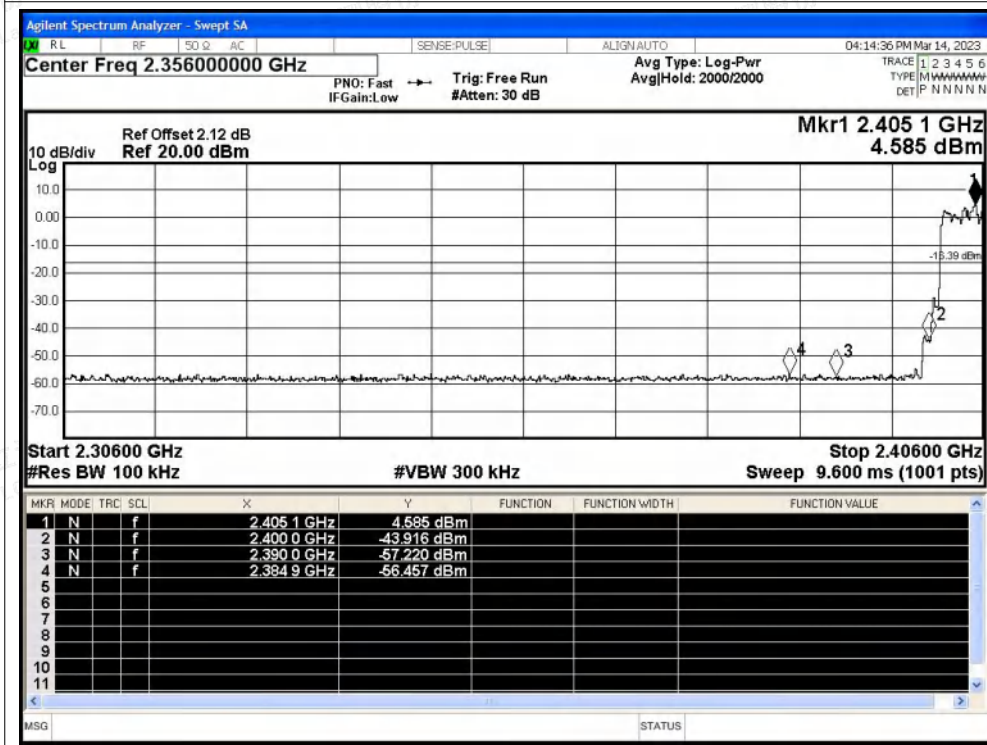
Scan code to check authenticity



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



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



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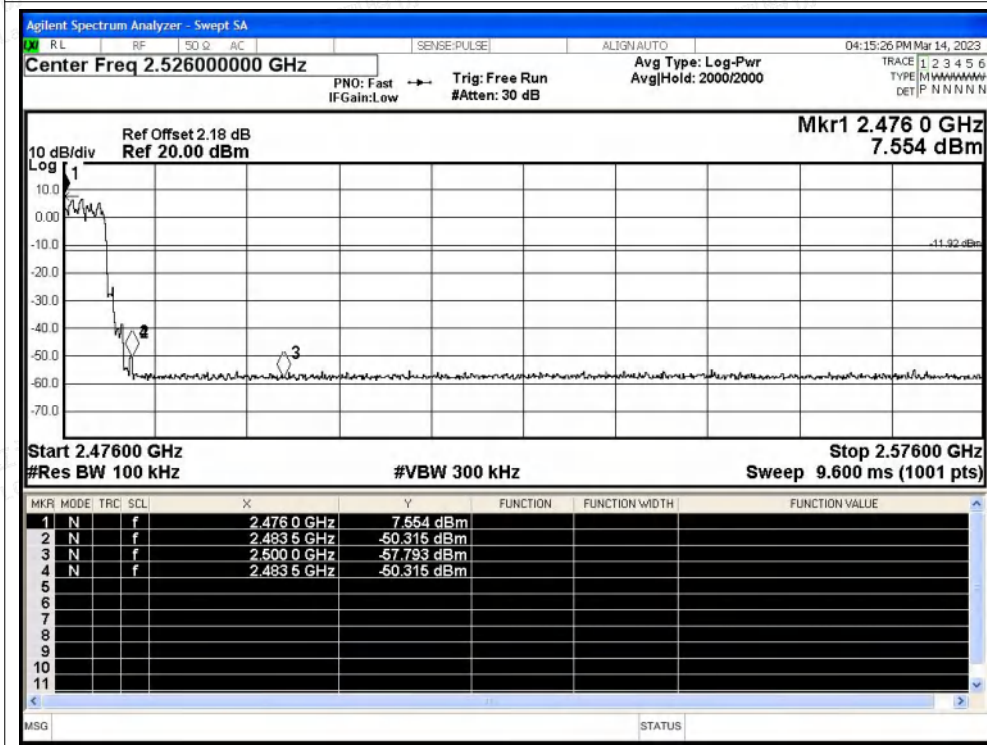
Scan code to check authenticity



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	-59.53	-20	Pass
NVNT	1-DH5	2441	Ant1	-60.42	-20	Pass
NVNT	1-DH5	2480	Ant1	-62.72	-20	Pass
NVNT	2-DH5	2402	Ant1	-61.26	-20	Pass
NVNT	2-DH5	2441	Ant1	-58.34	-20	Pass
NVNT	2-DH5	2480	Ant1	-61.78	-20	Pass
NVNT	3-DH5	2402	Ant1	-61	-20	Pass
NVNT	3-DH5	2441	Ant1	-58.03	-20	Pass
NVNT	3-DH5	2480	Ant1	-62.78	-20	Pass



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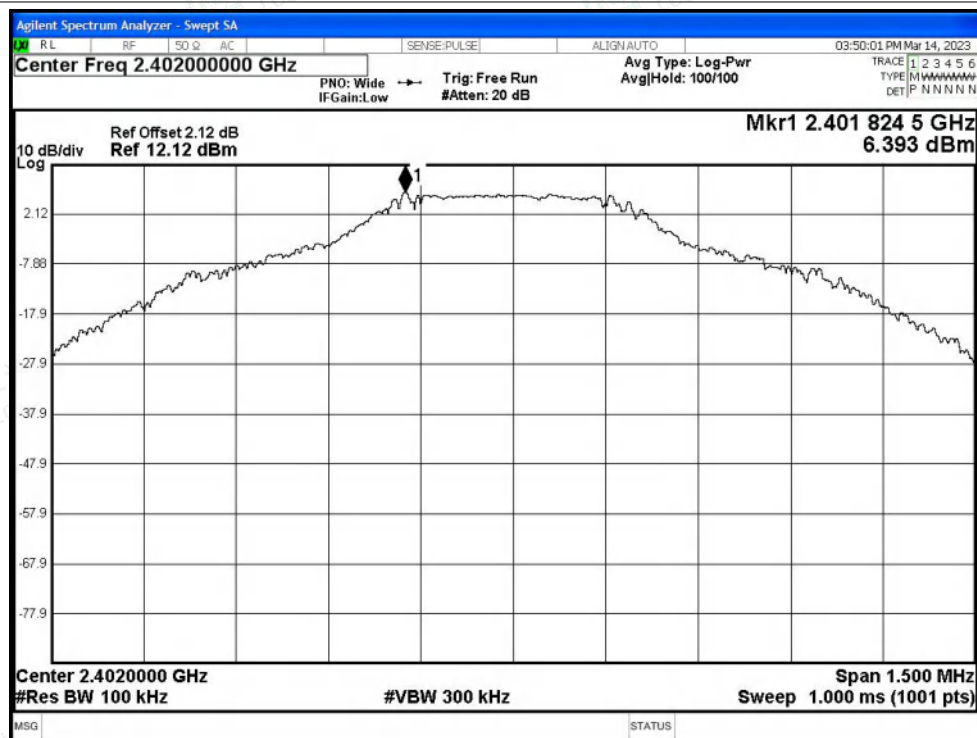
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

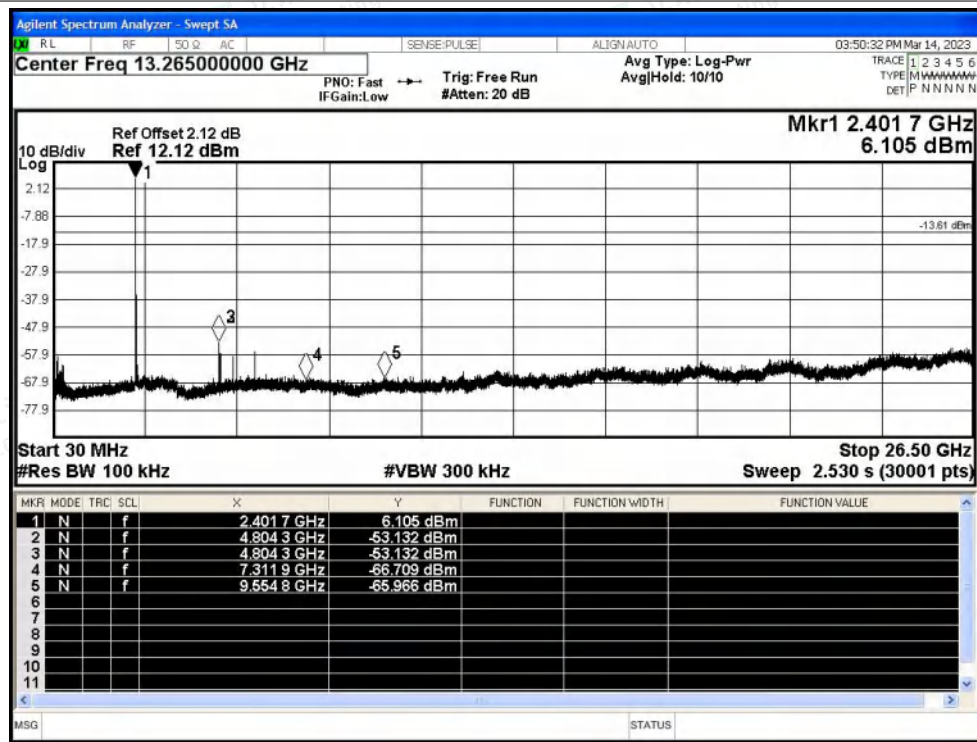


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

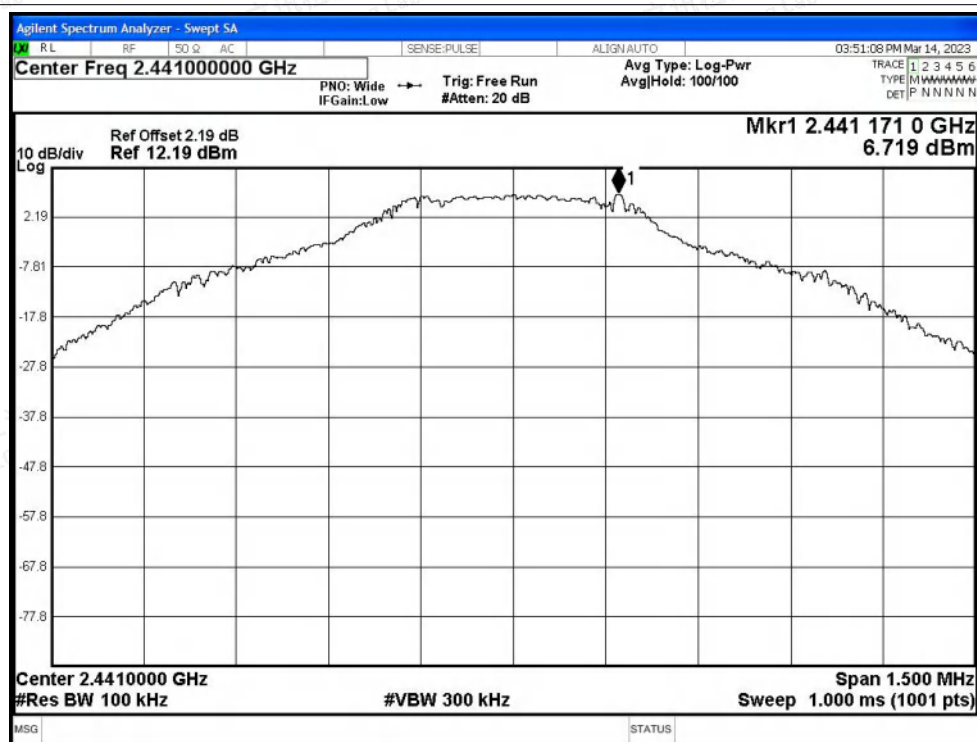
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

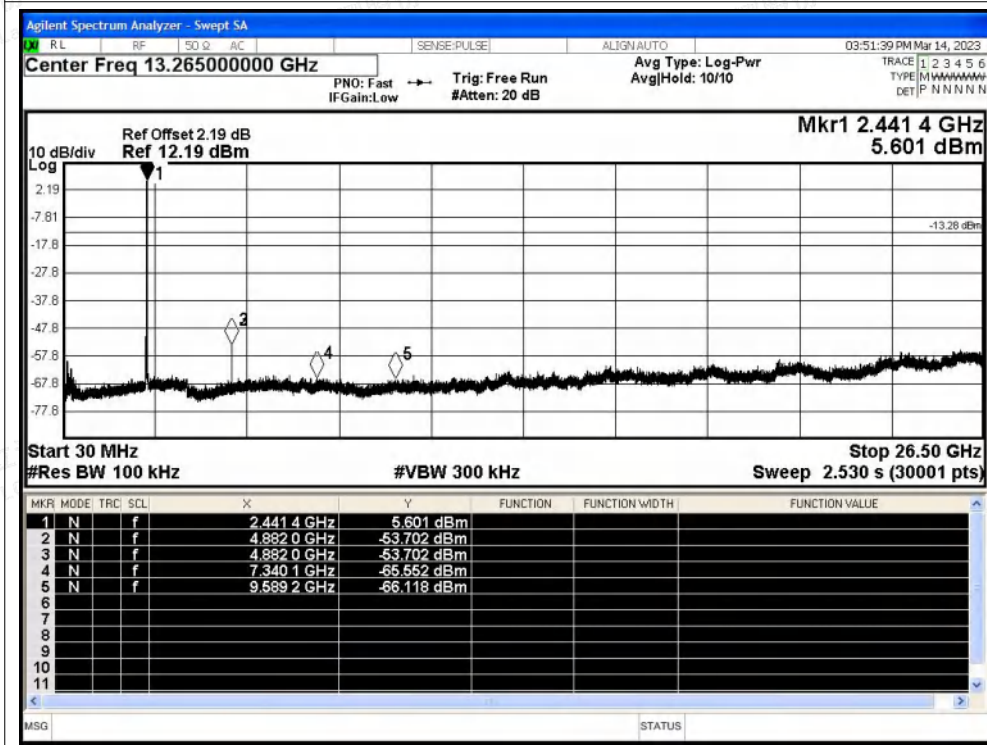
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

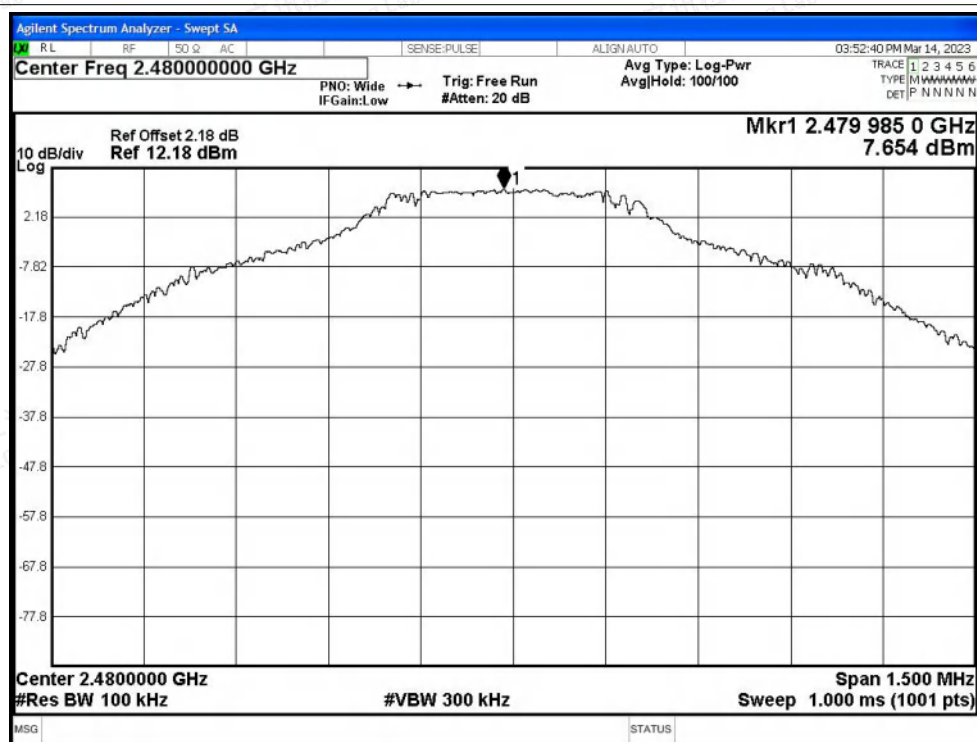
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

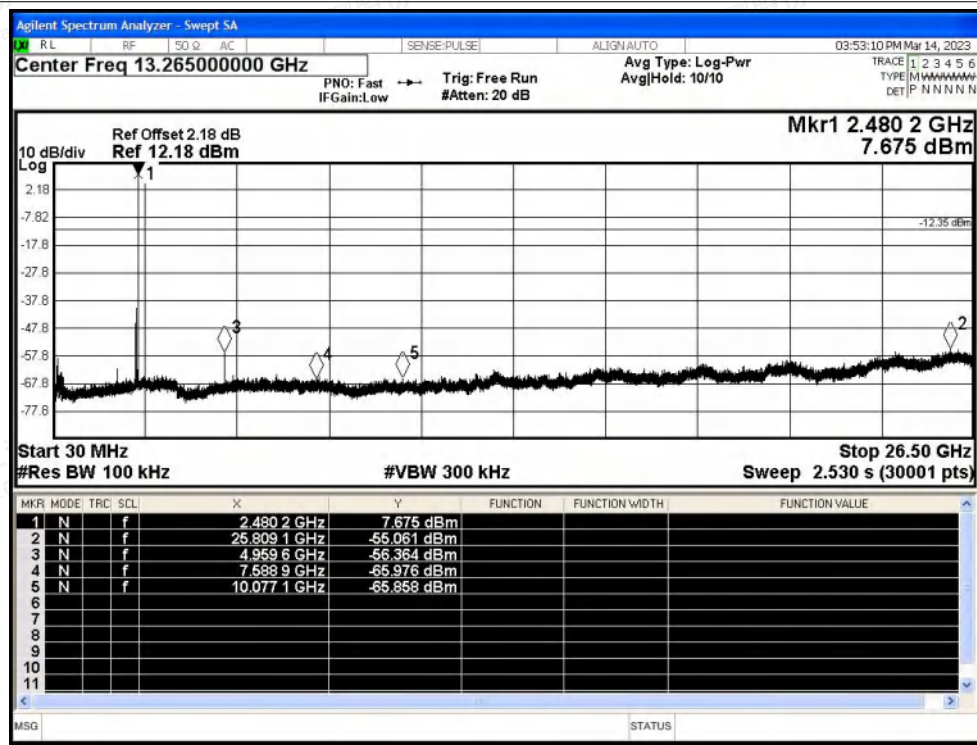
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

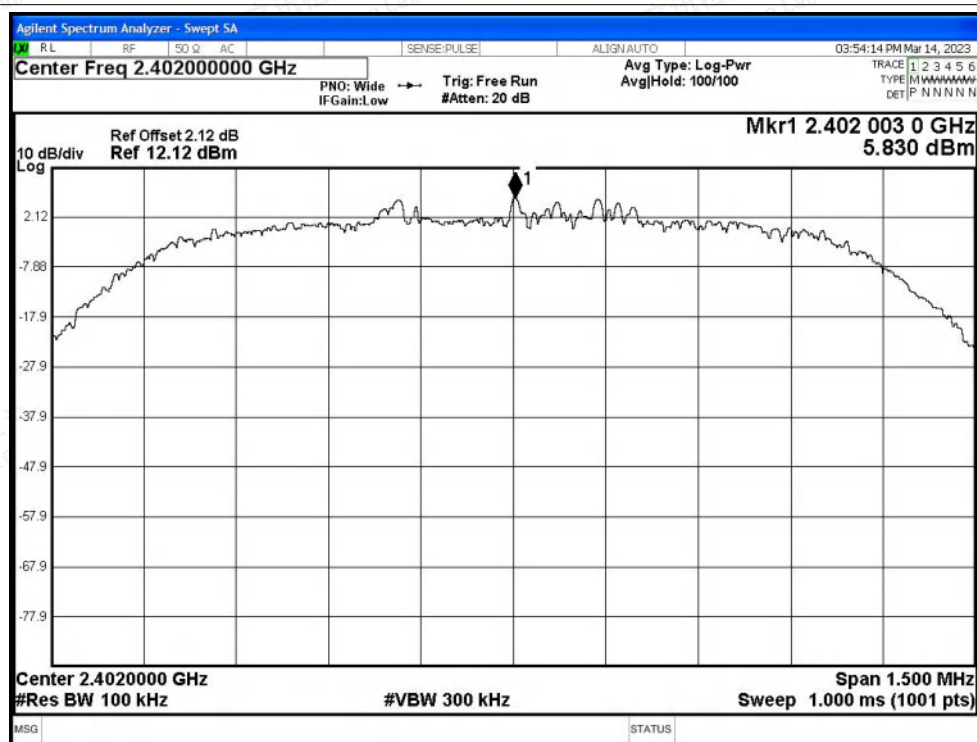
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

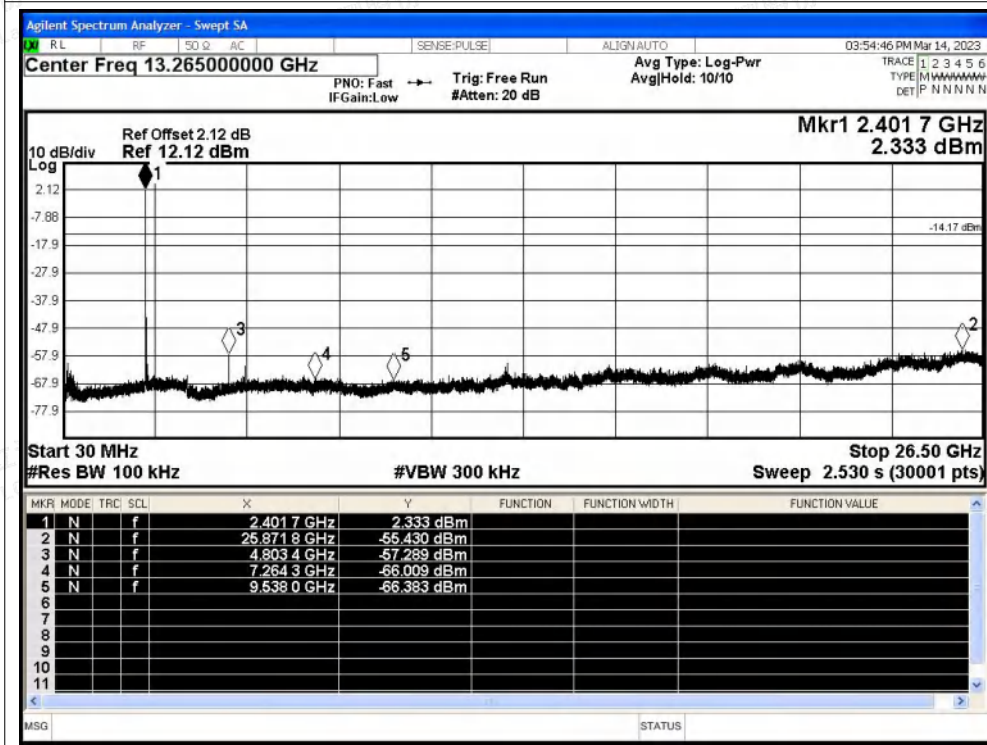
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

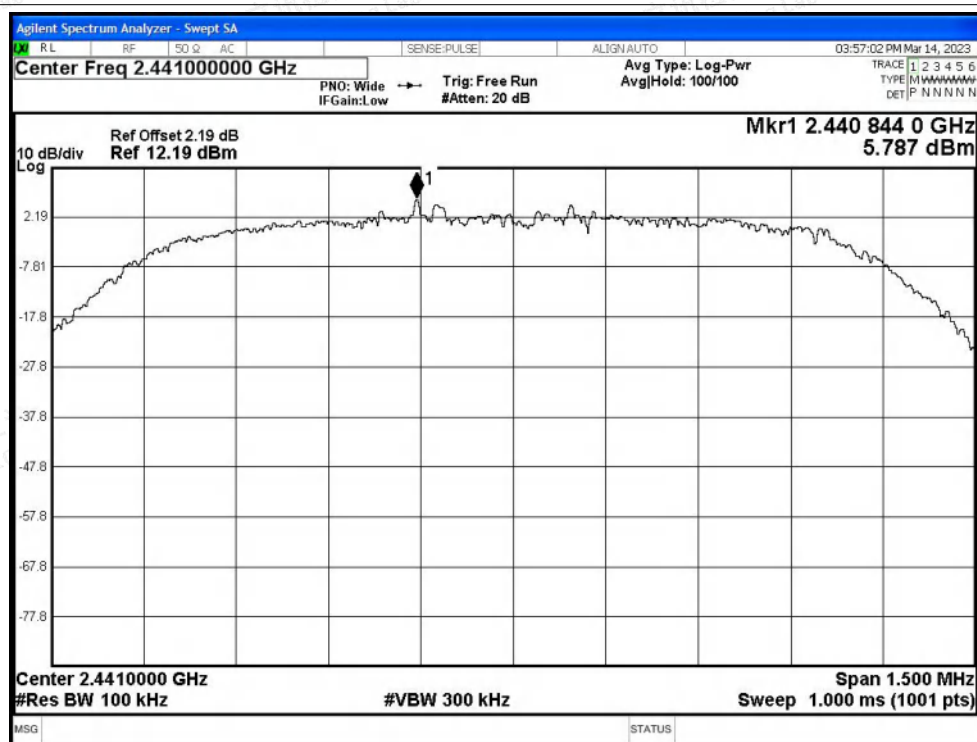
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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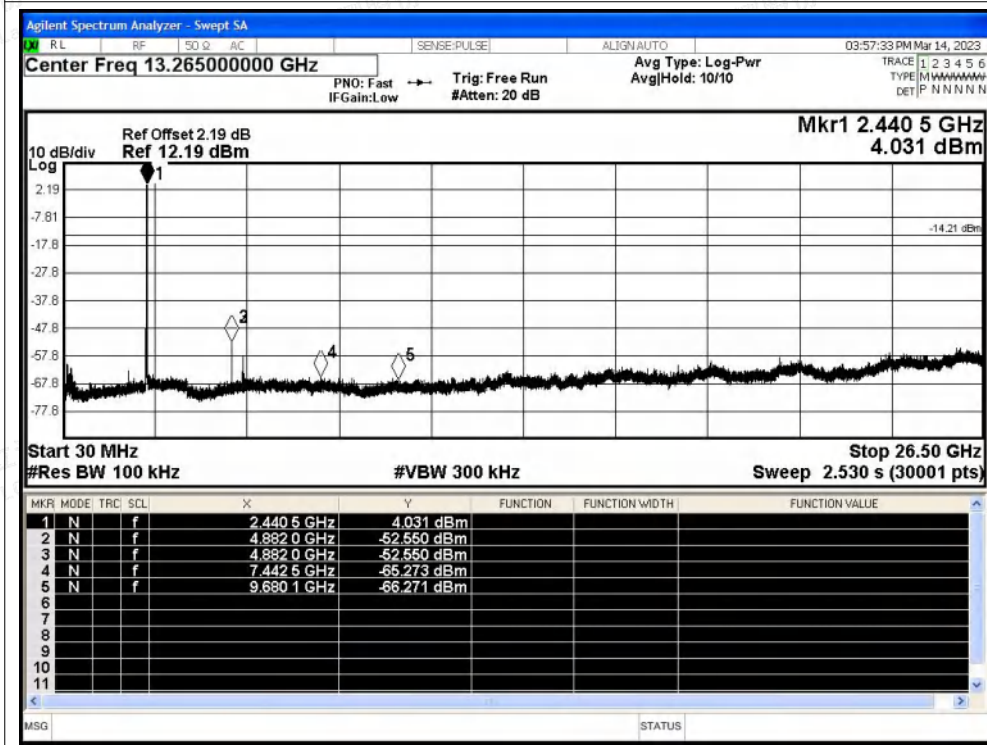
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

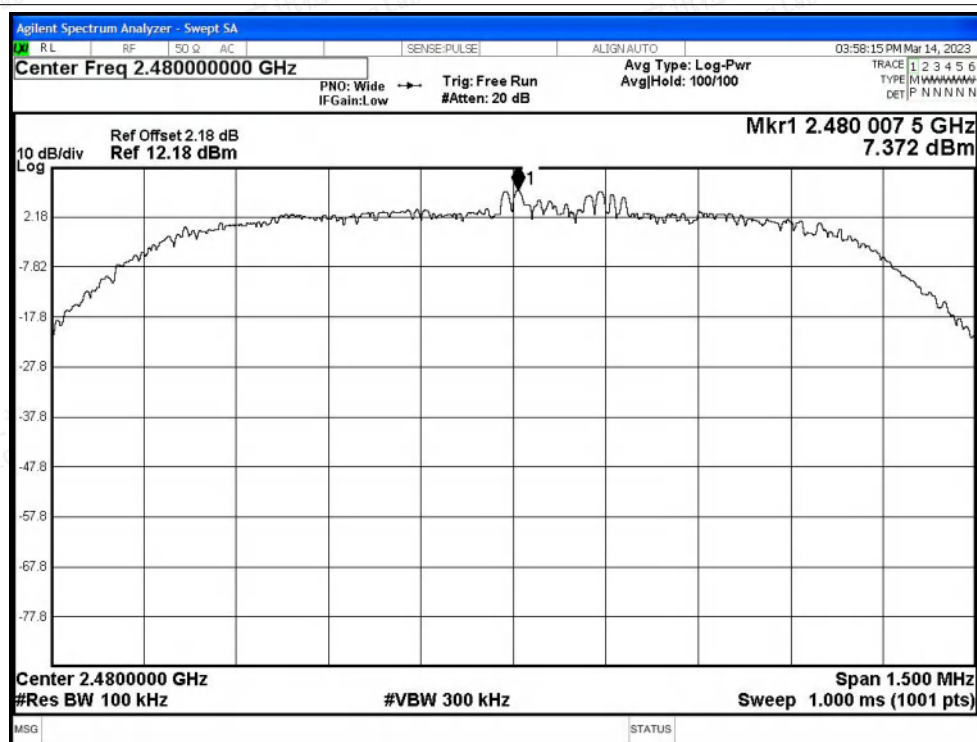
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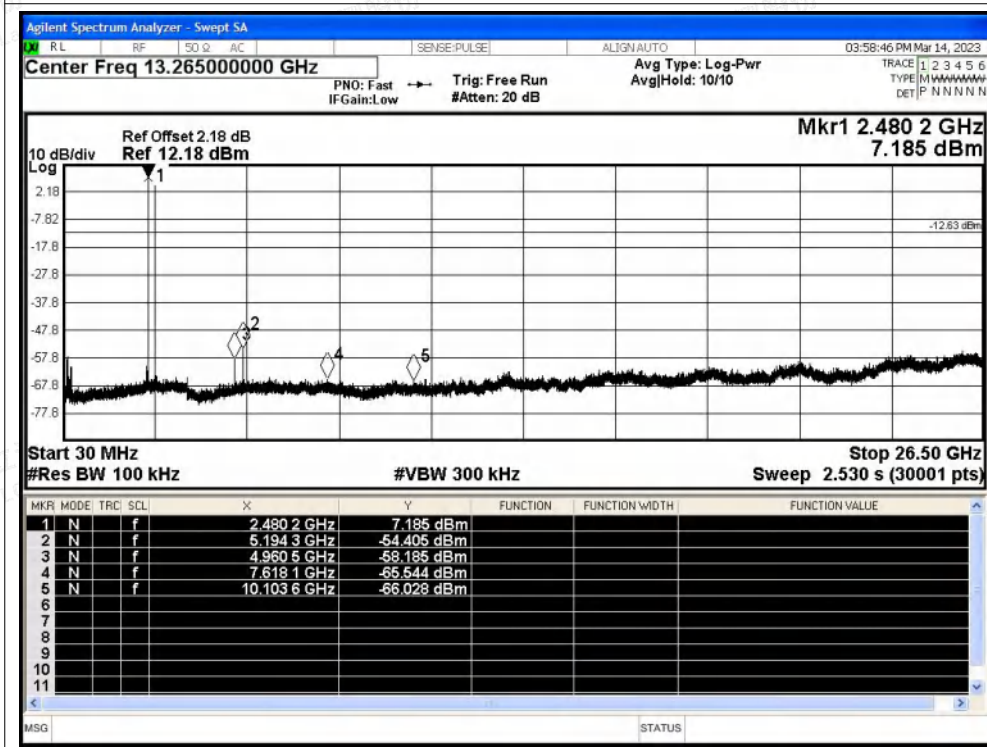
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

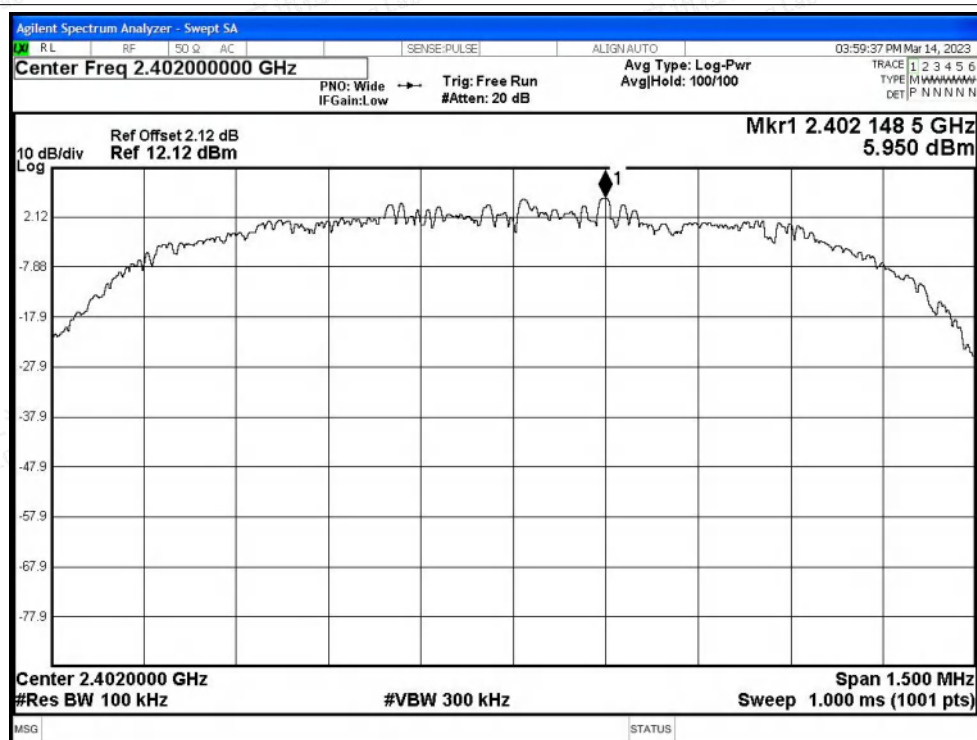
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

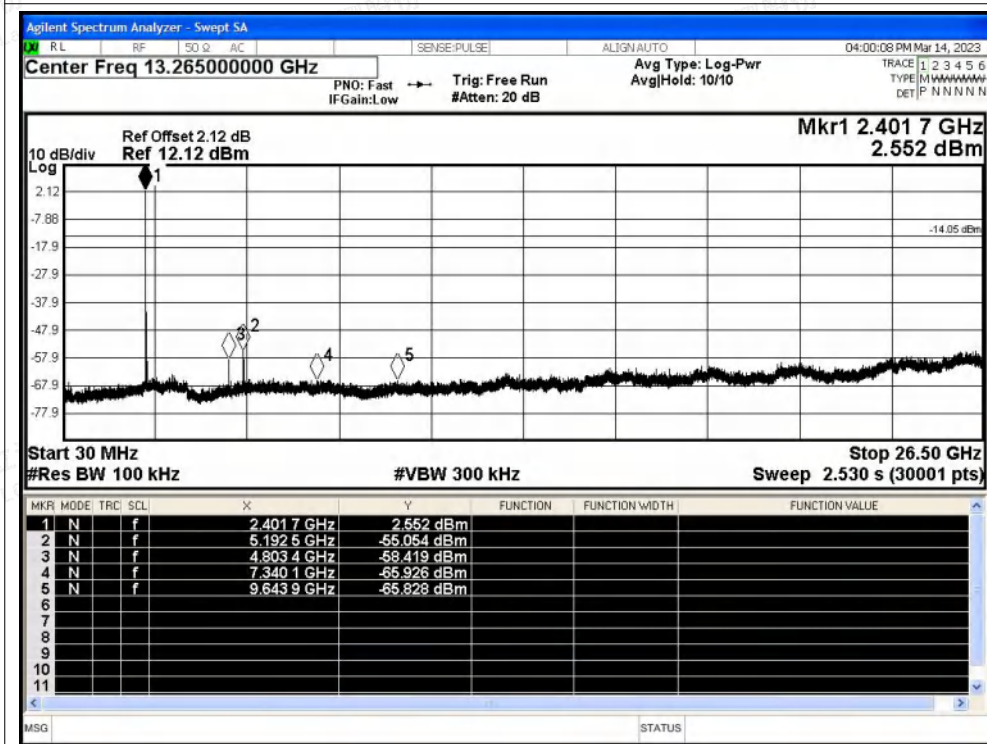
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

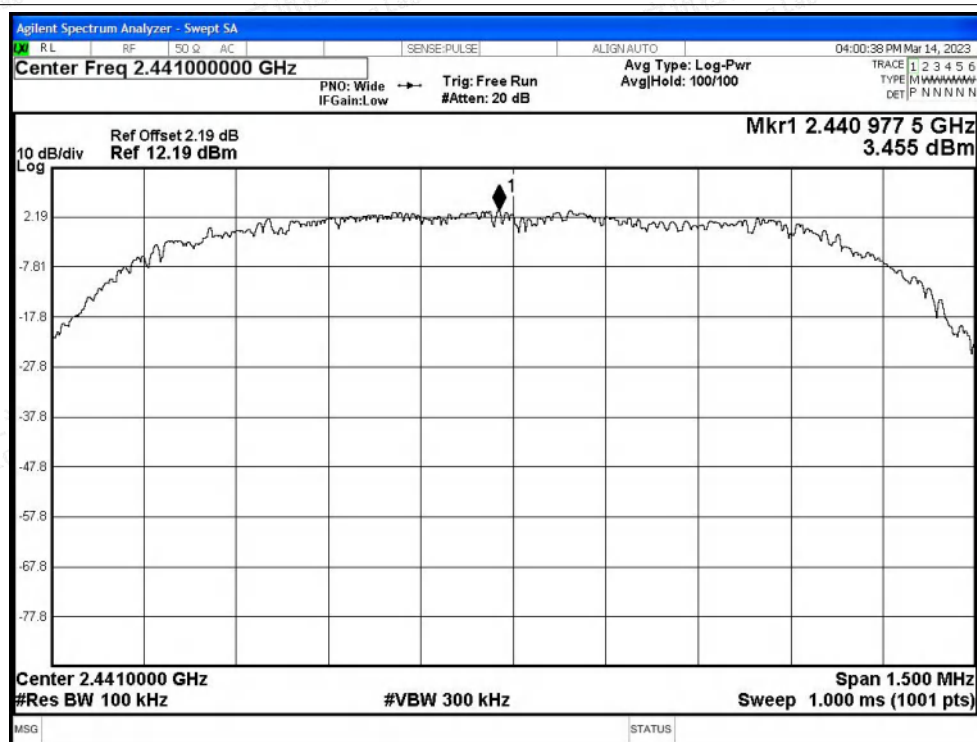
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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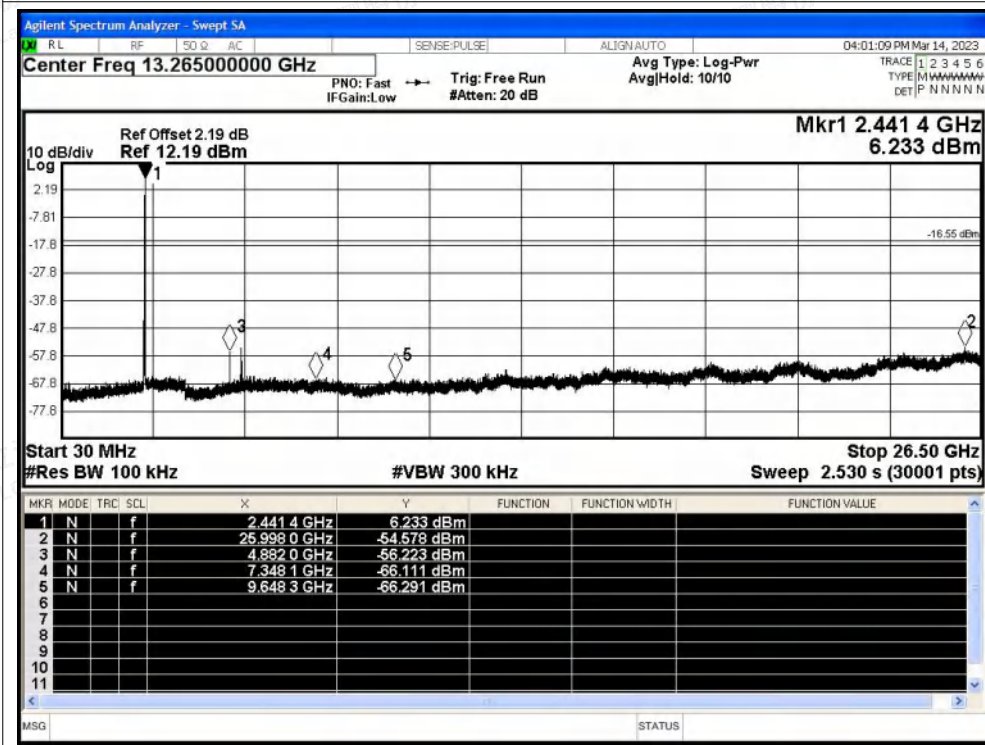
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

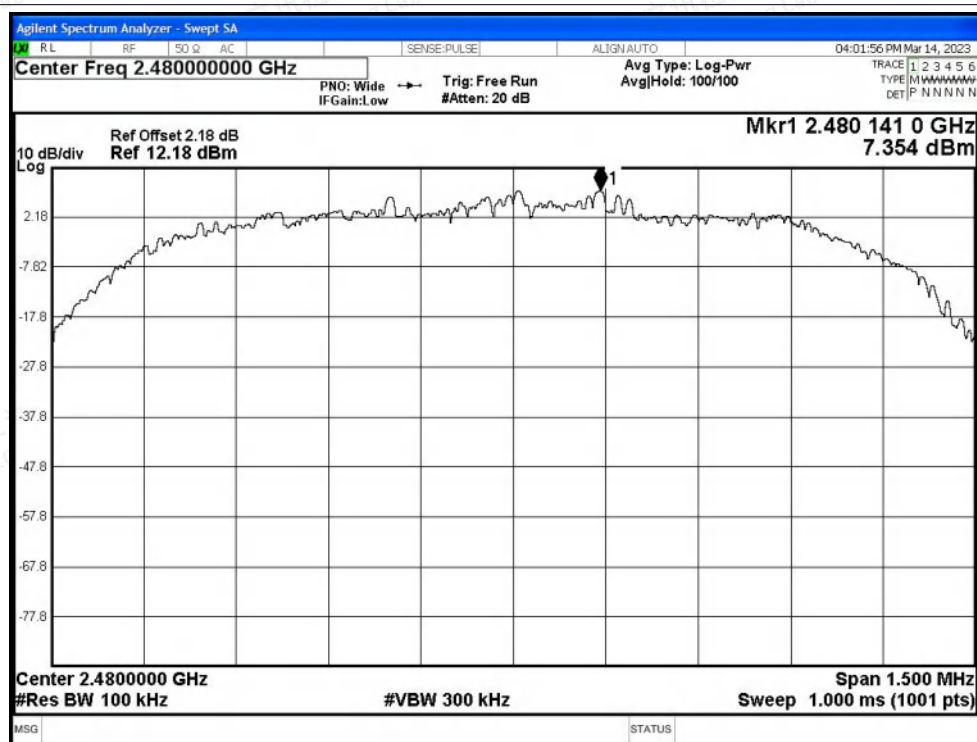
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

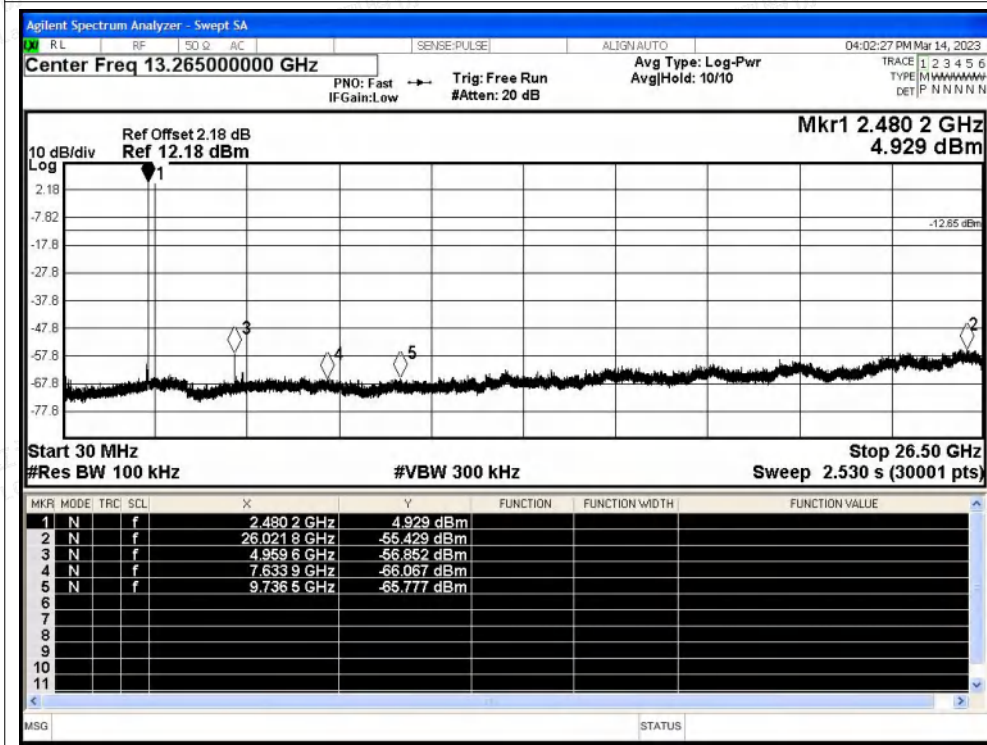
Scan code to check authenticity



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	-50.64	2	46.62	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.41	2	36.85	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2321.328	-47.77	2	49.49	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2388.72	-59.4	2	37.86	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.29	2	47.97	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-59.62	2	37.64	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-46.87	2	50.39	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.5	2	39.76	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.472	-45.81	2	51.45	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.536	-57.48	2	39.78	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.3	2	47.96	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.69	2	37.57	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-48.58	2	48.68	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	2366.064	-47.3	2	49.96	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.968	-59.38	2	37.88	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-48.82	2	48.44	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-59.38	2	37.88	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-42.14	2	55.12	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.59	2	41.67	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.584	-40.8	2	56.46	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.59	2	41.67	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.18	2	48.08	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.68	2	37.58	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.9	2	46.36	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.41	2	36.85	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.72	-46.64	2	50.62	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.872	-59.28	2	37.98	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.54	2	47.72	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-59.28	2	37.98	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-40.66	2	56.6	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.66	2	41.6	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.536	-38.25	2	59.01	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.66	2	41.6	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.37	2	46.89	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.72	2	37.54	Average	54	Pass



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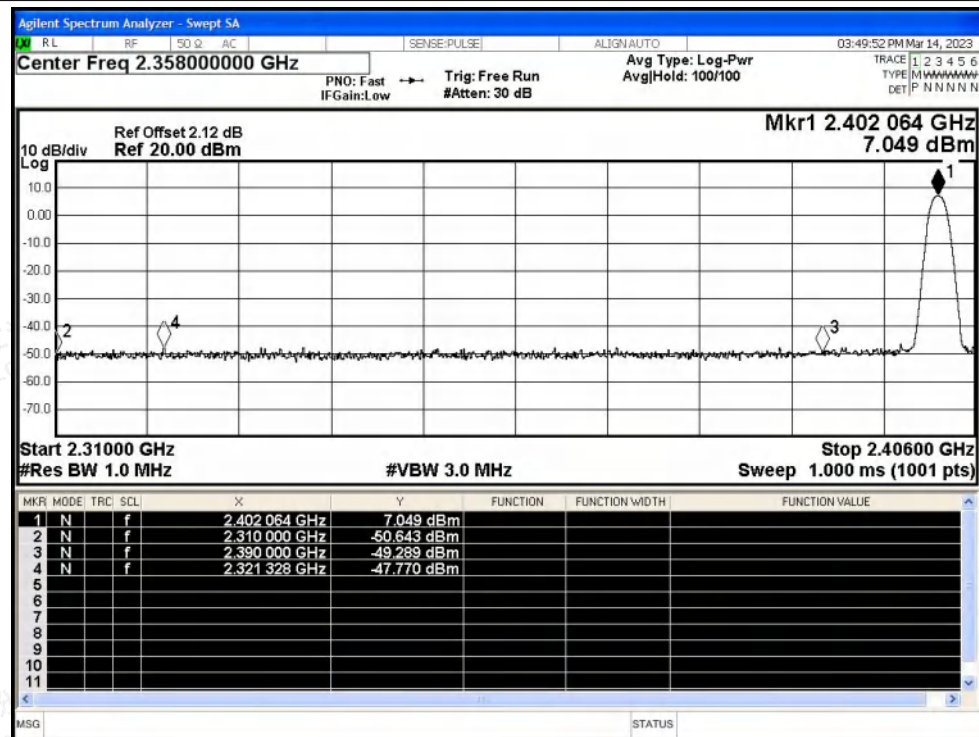
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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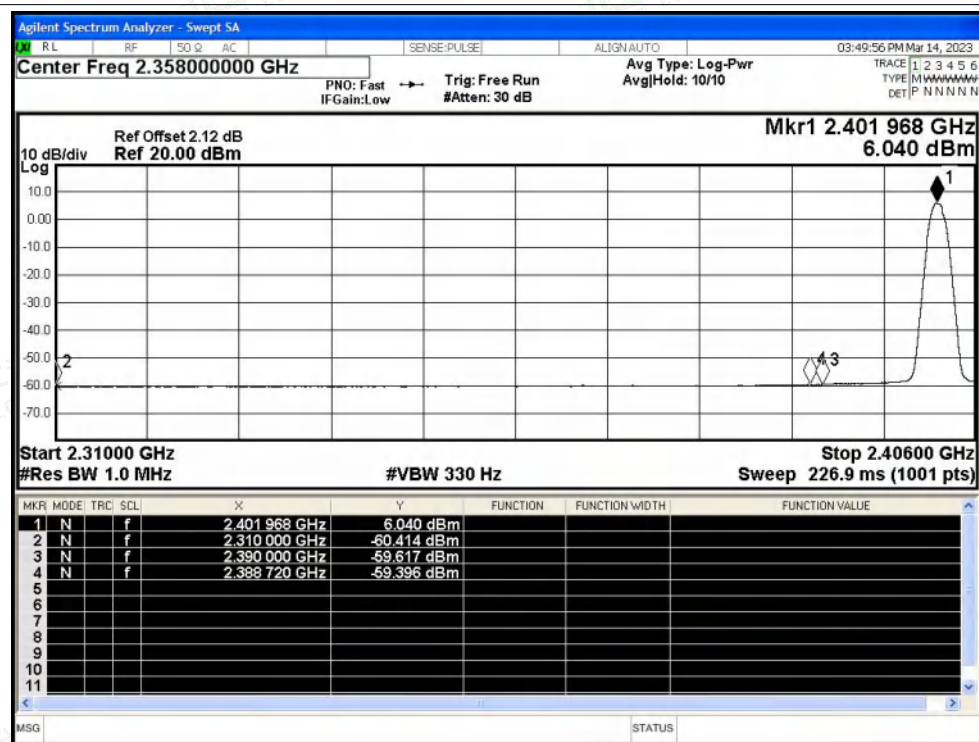


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

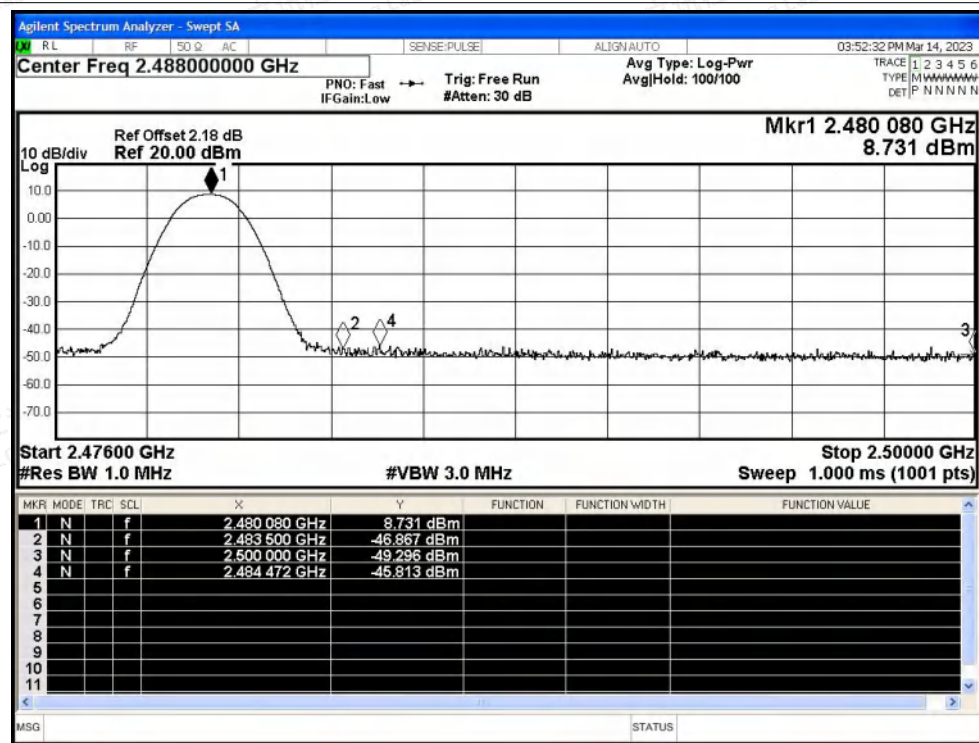
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

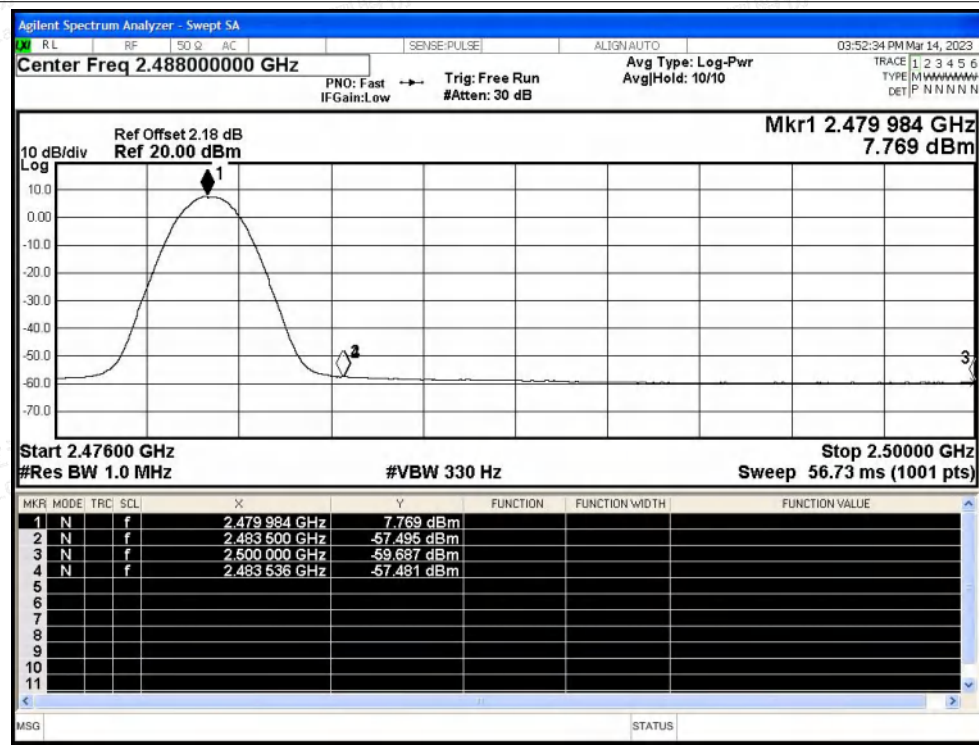
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

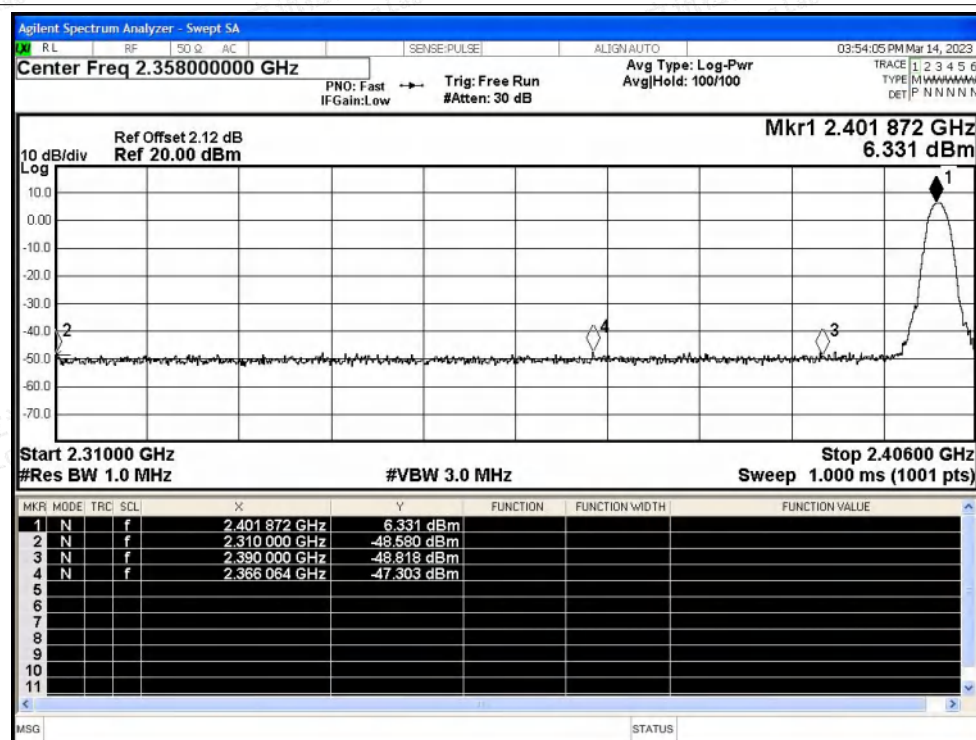
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

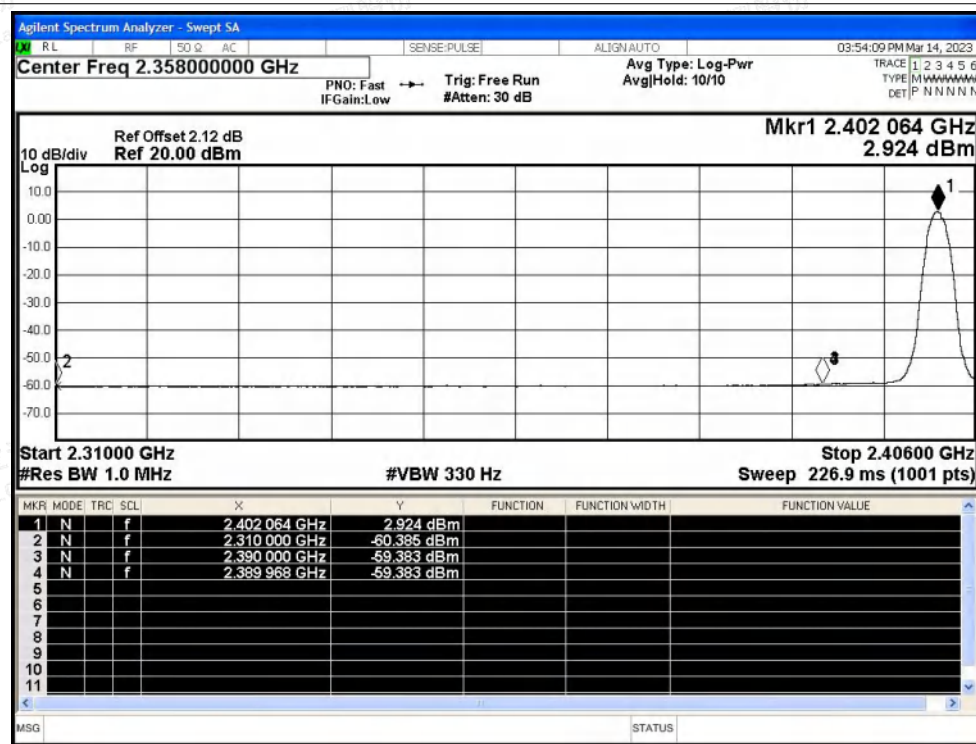
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

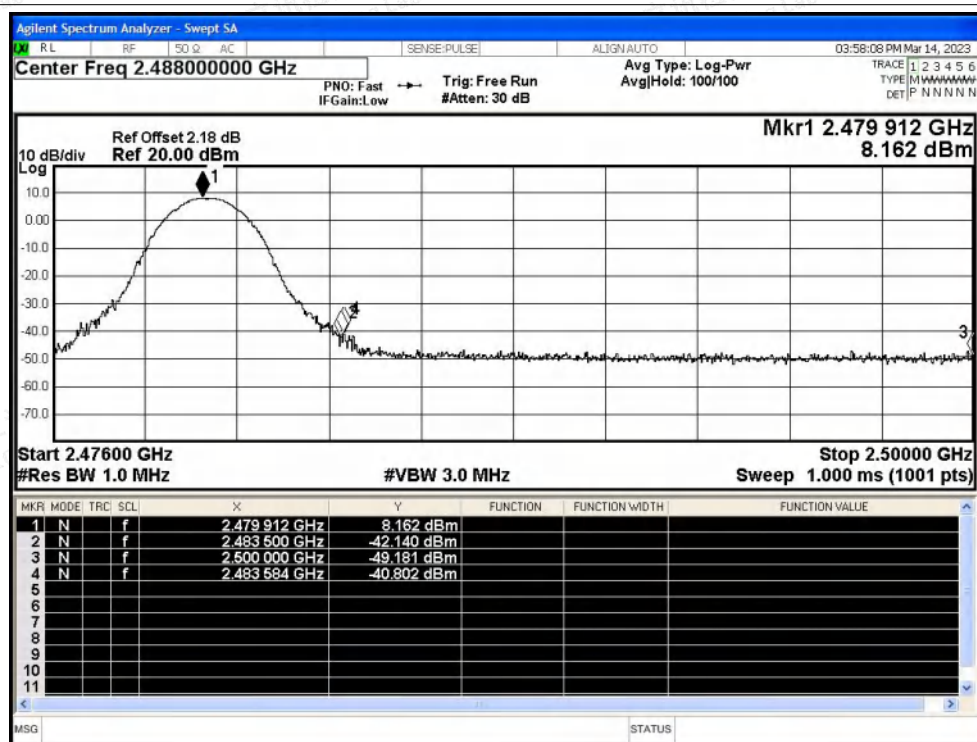
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

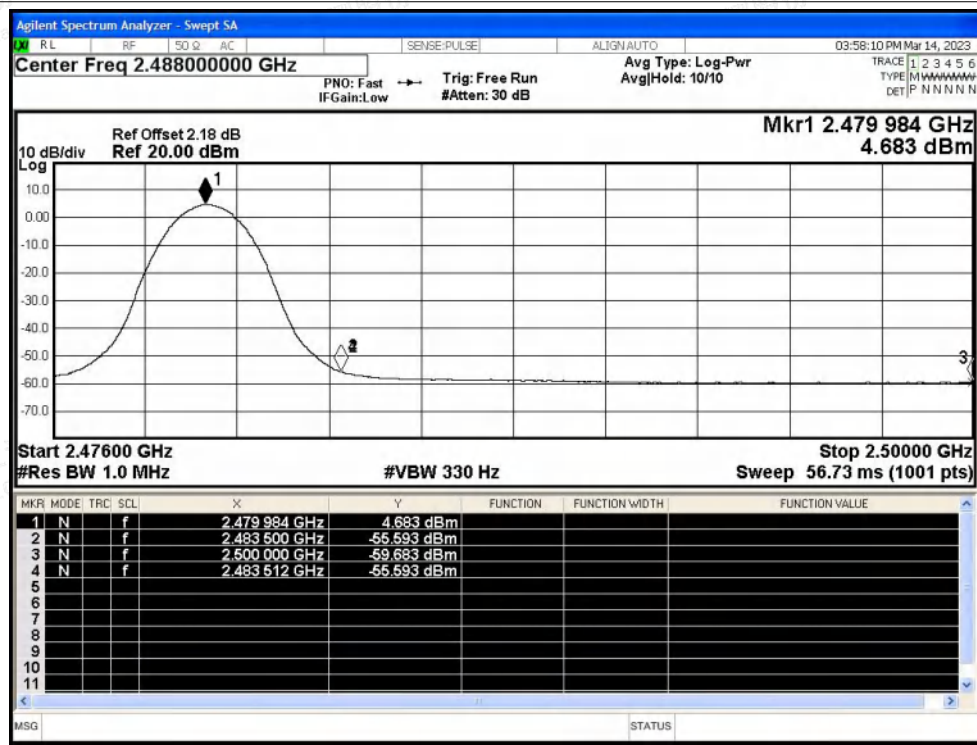
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

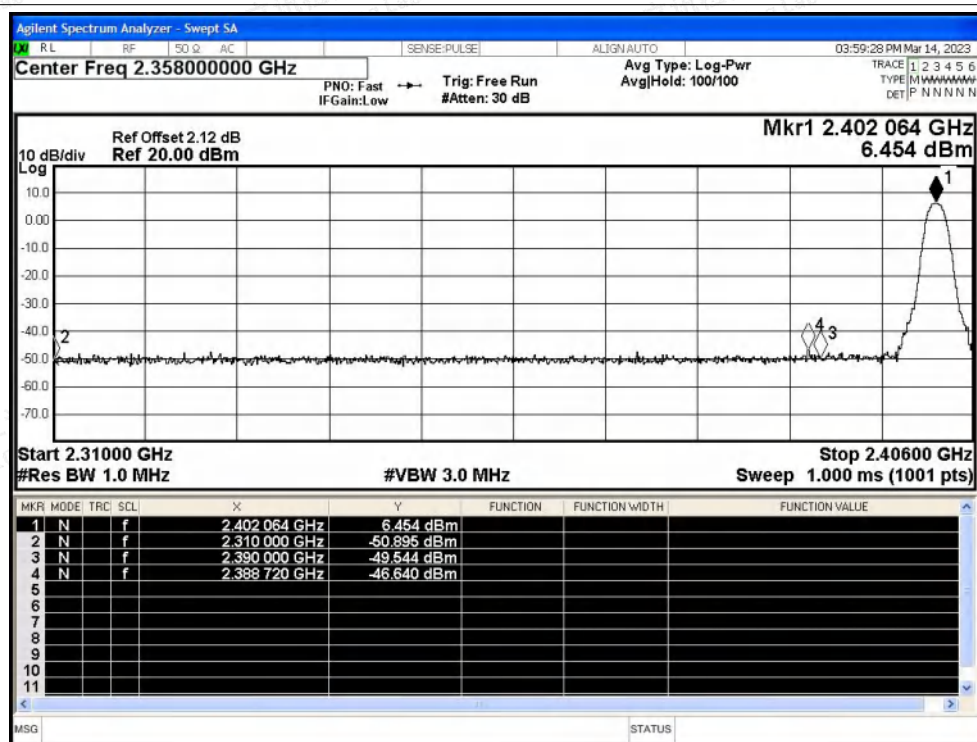
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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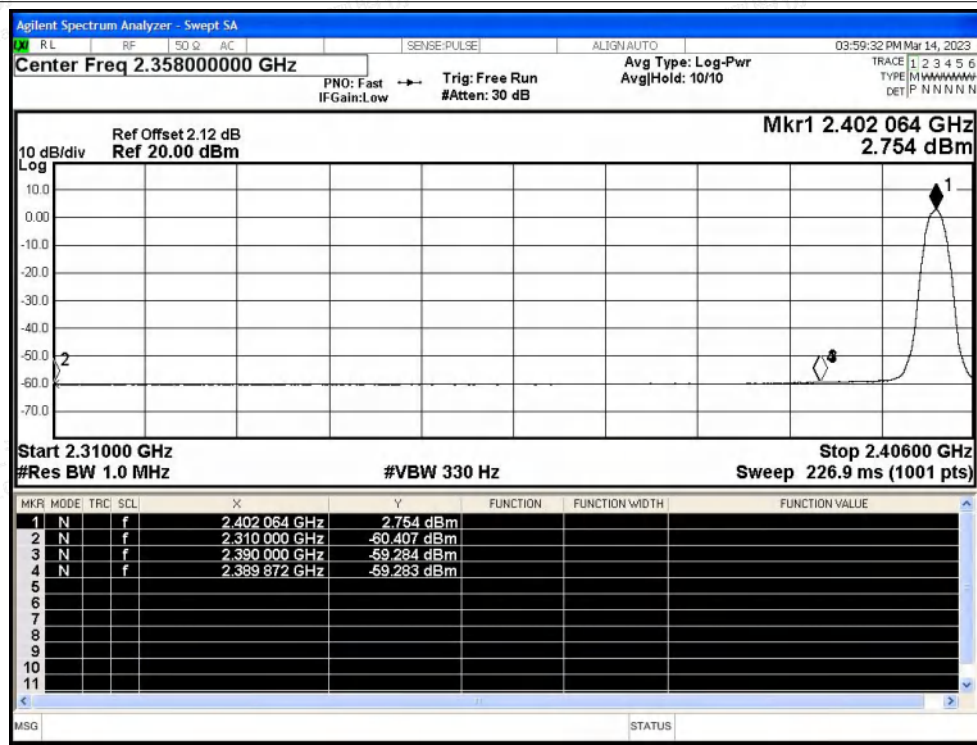
Scan code to check authenticity



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



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



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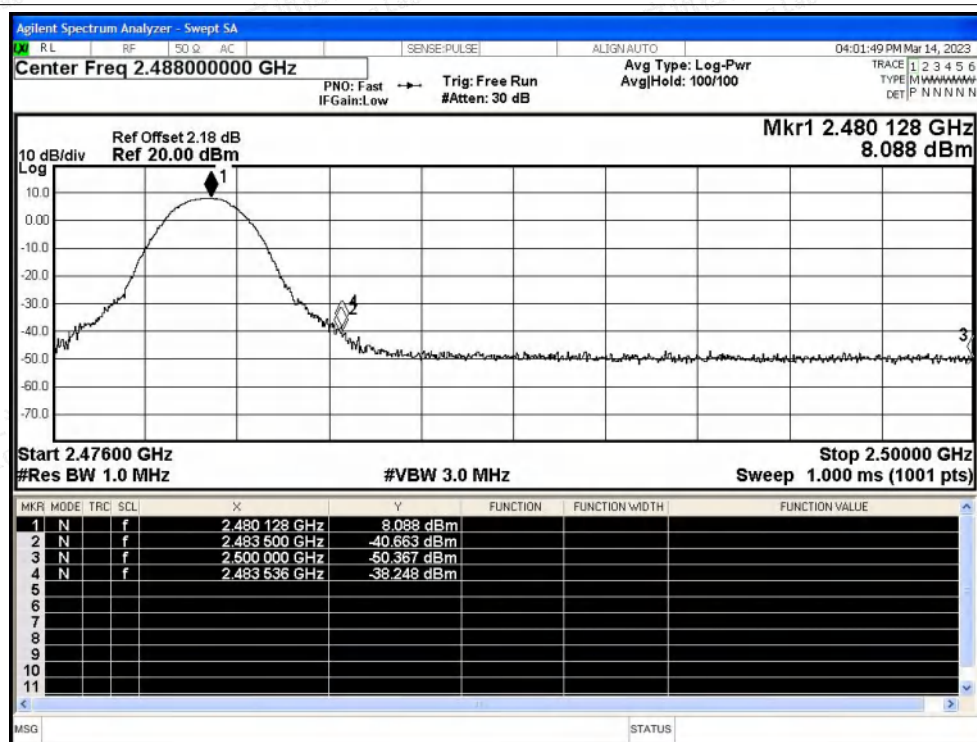
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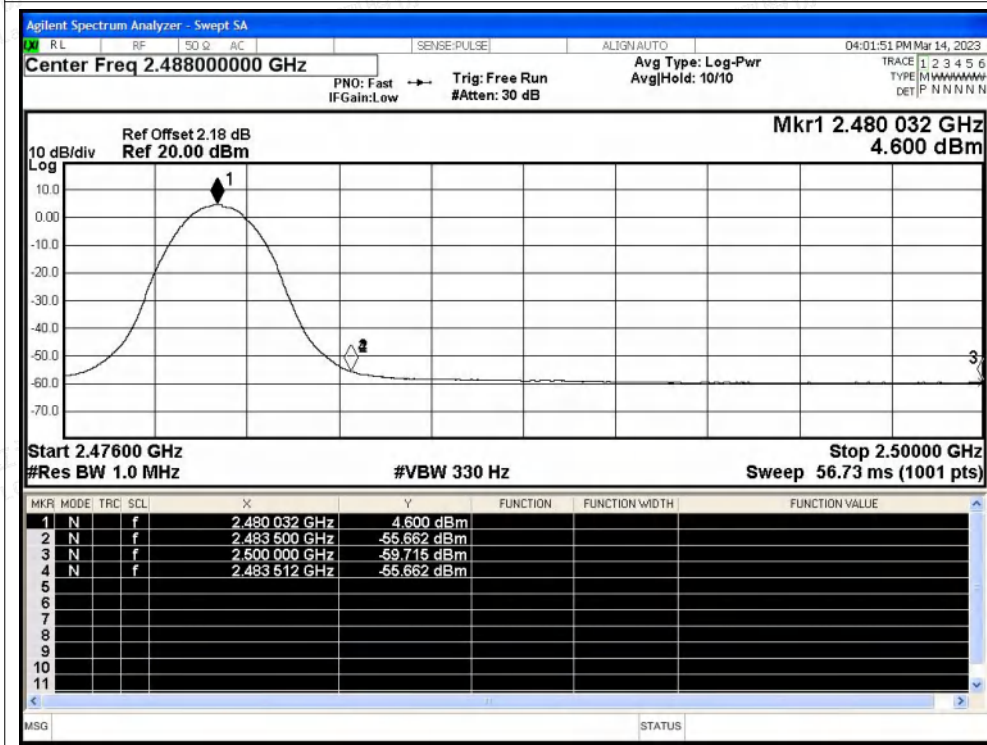
Scan code to check authenticity



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



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



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