



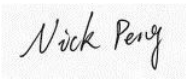
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart switch

Test Model: Shelly PRO 2

Environmental Conditions

Temperature:	23.8 °C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Nick Peng
Supervised by:	 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	0.937	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.931	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.927	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.329	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.326	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.316	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.306	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.294	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.297	N/A	Pass



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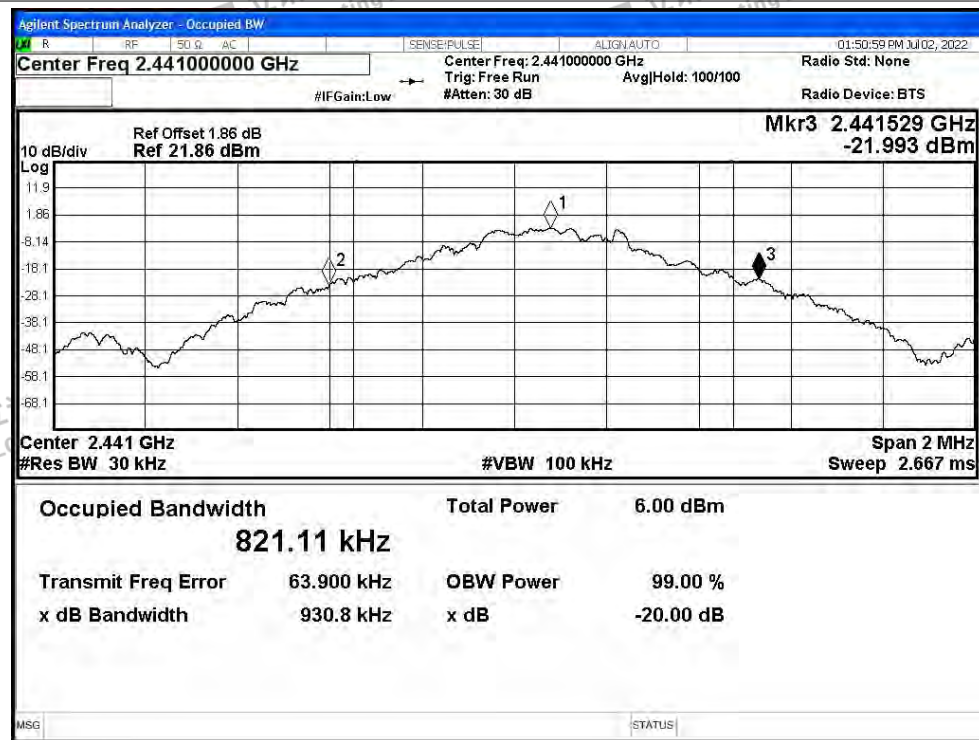


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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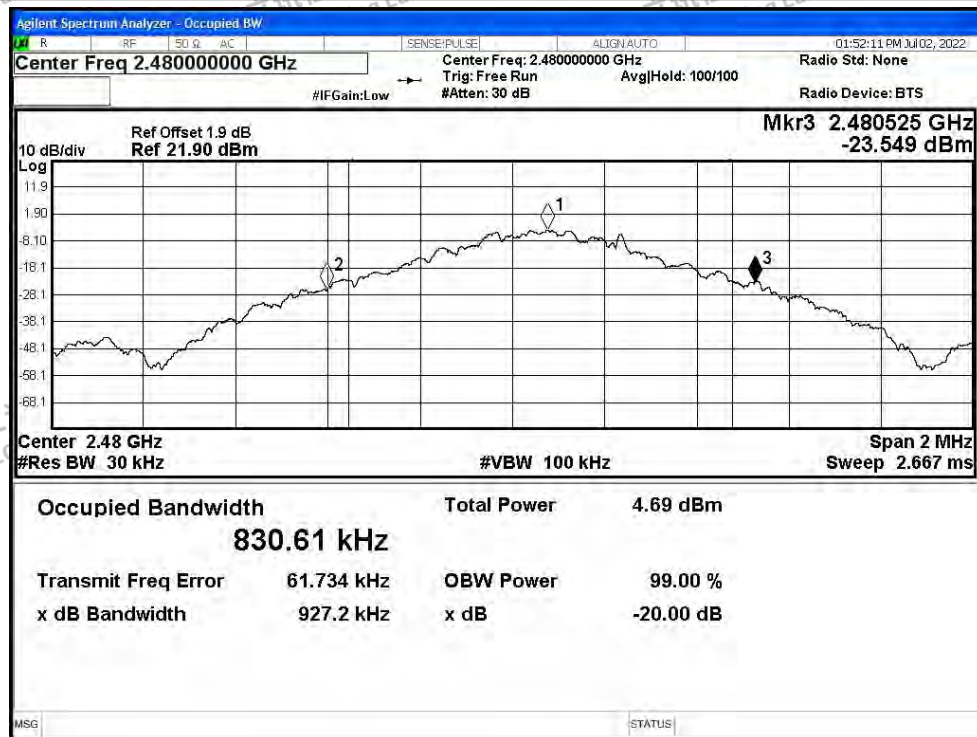
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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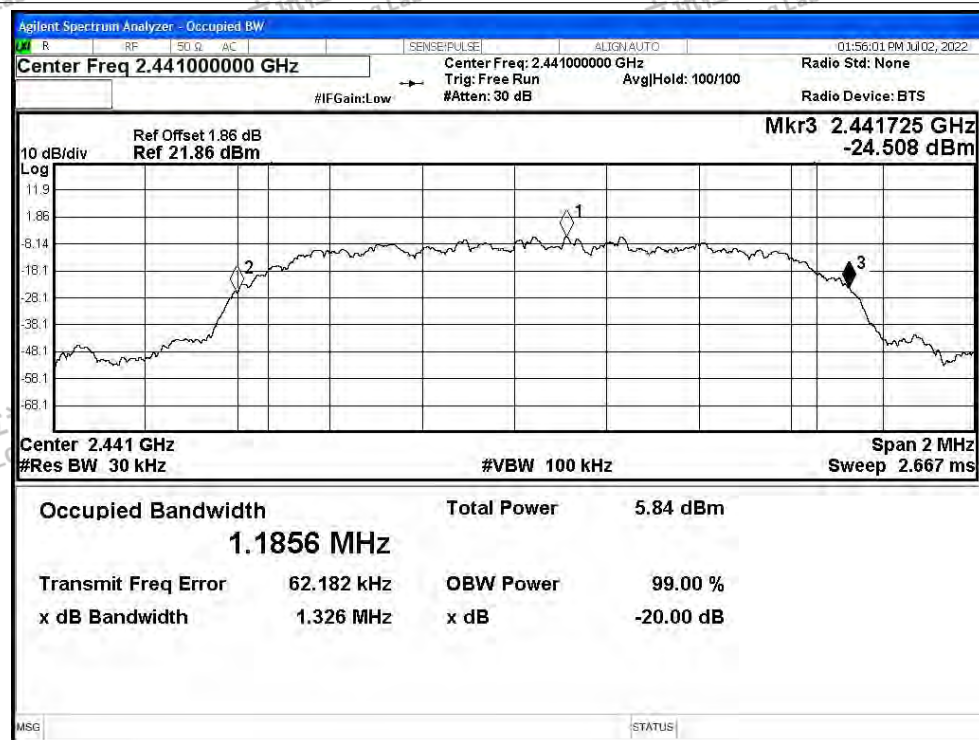
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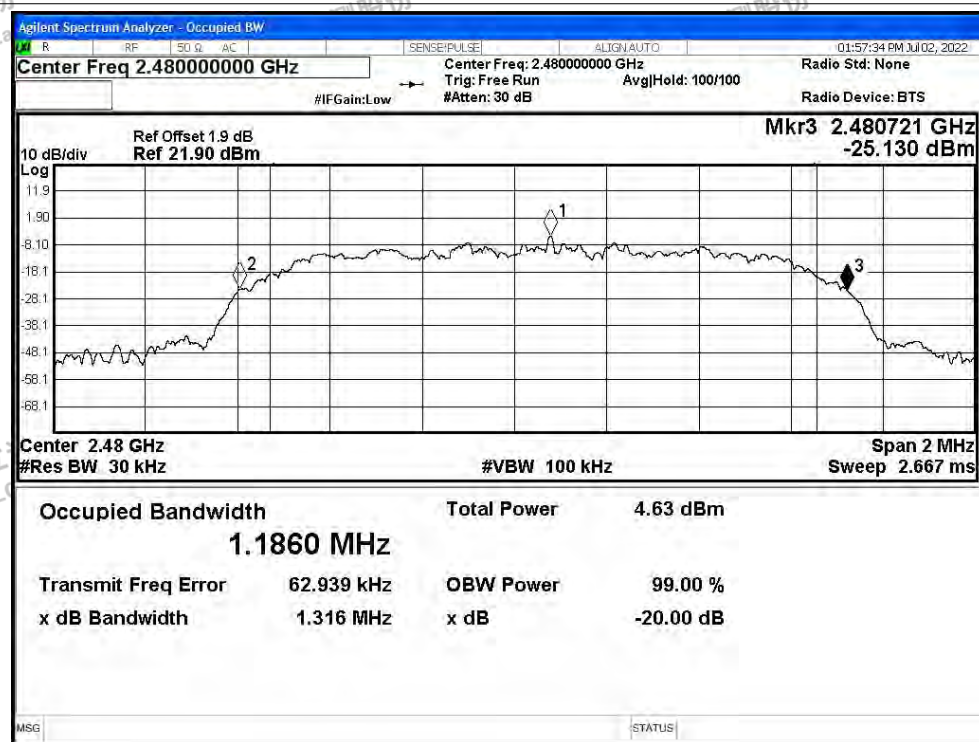
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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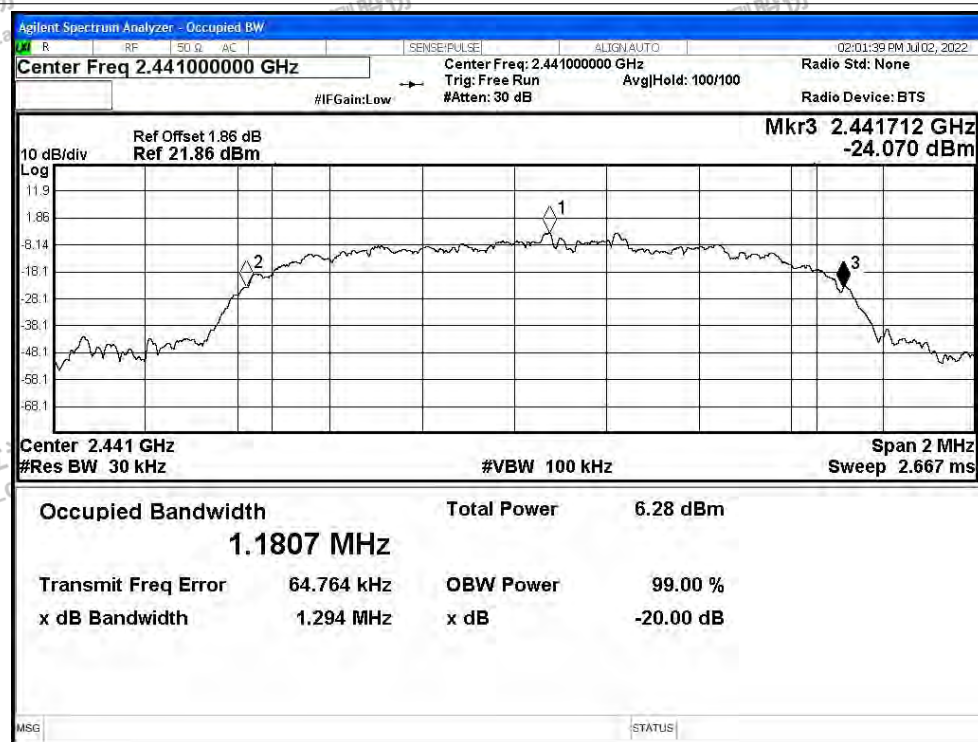
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

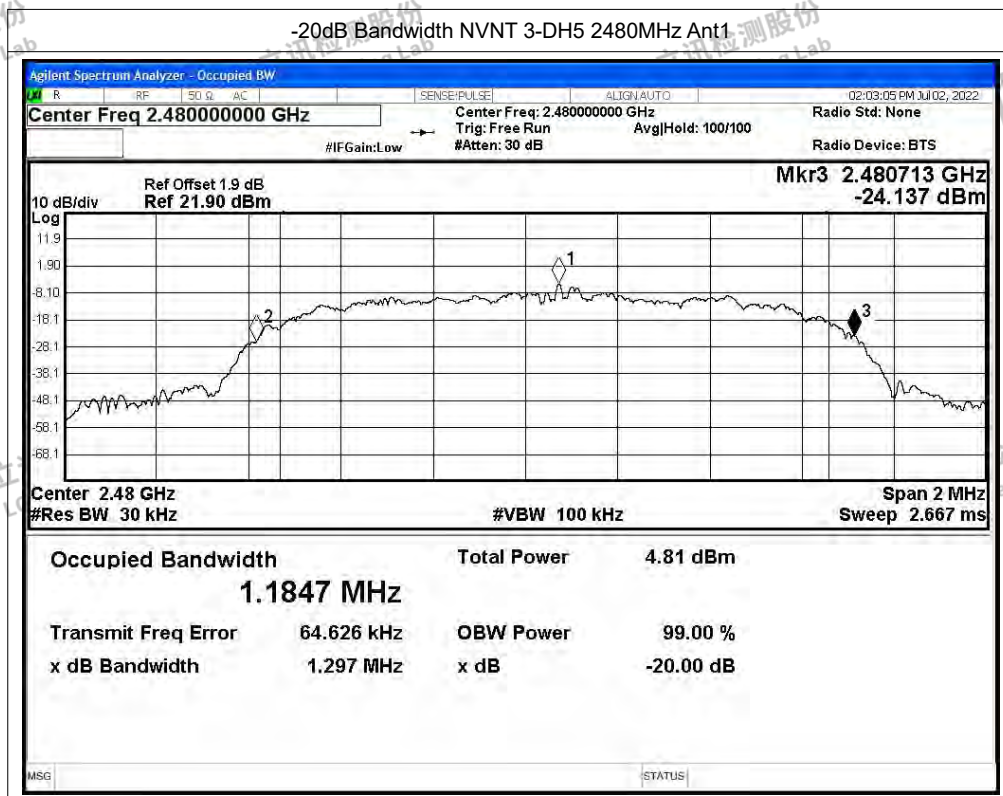


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A.2 Maximum Peak Conducted Output Power

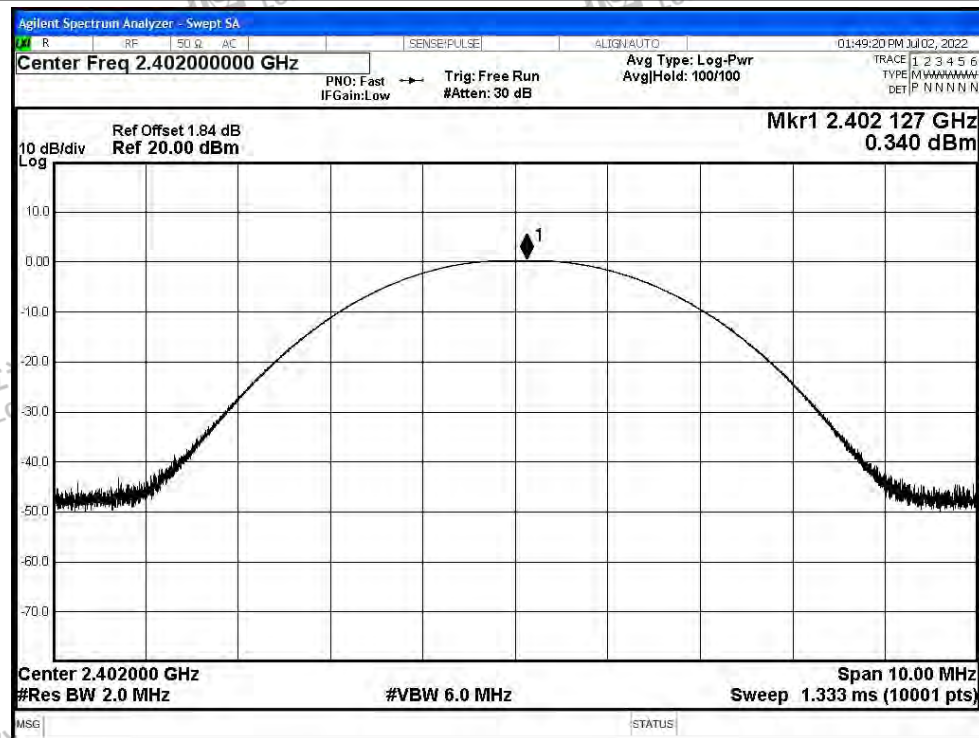
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.34	21	Pass
NVNT	1-DH5	2441	Ant1	-0.35	21	Pass
NVNT	1-DH5	2480	Ant1	-1.49	21	Pass
NVNT	2-DH5	2402	Ant1	2.72	21	Pass
NVNT	2-DH5	2441	Ant1	2.03	21	Pass
NVNT	2-DH5	2480	Ant1	0.86	21	Pass
NVNT	3-DH5	2402	Ant1	3.19	21	Pass
NVNT	3-DH5	2441	Ant1	2.43	21	Pass
NVNT	3-DH5	2480	Ant1	1.3	21	Pass



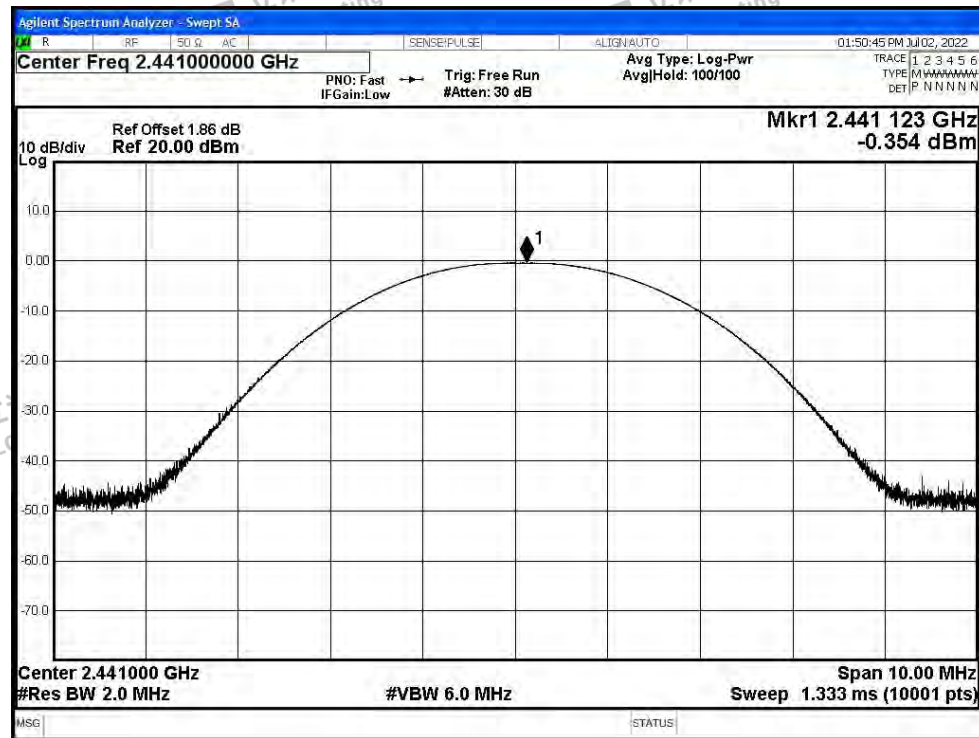


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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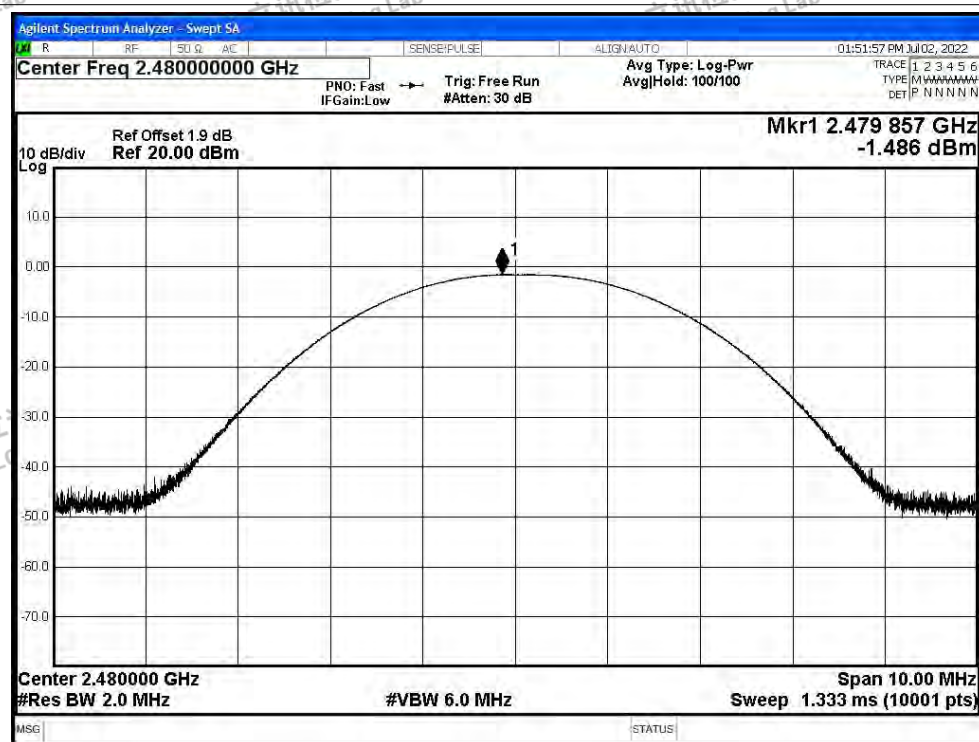
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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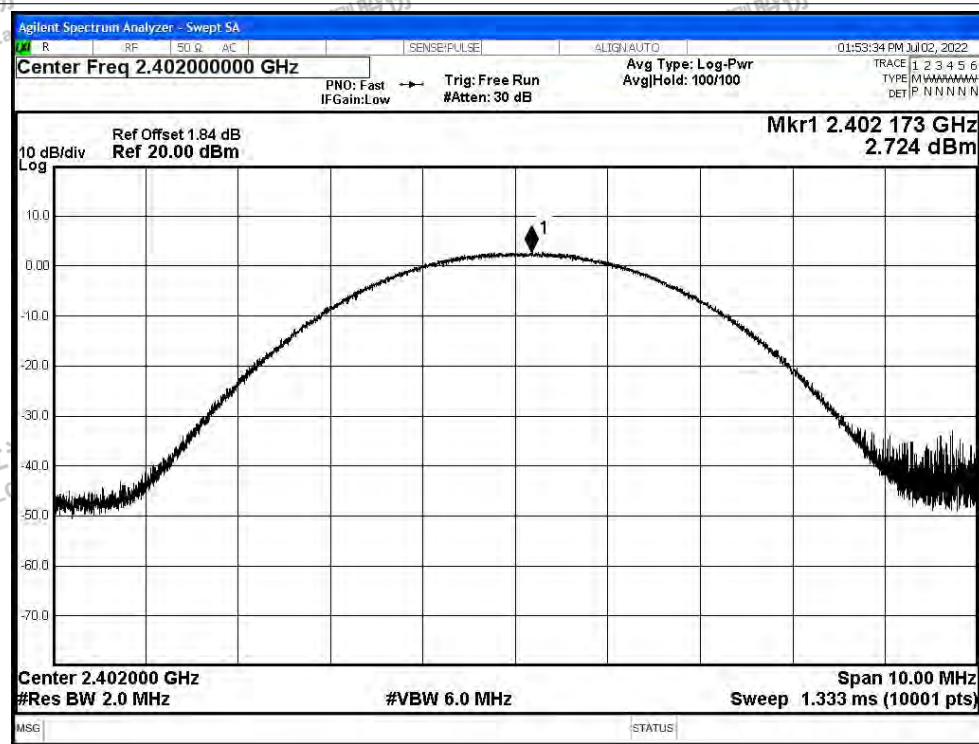
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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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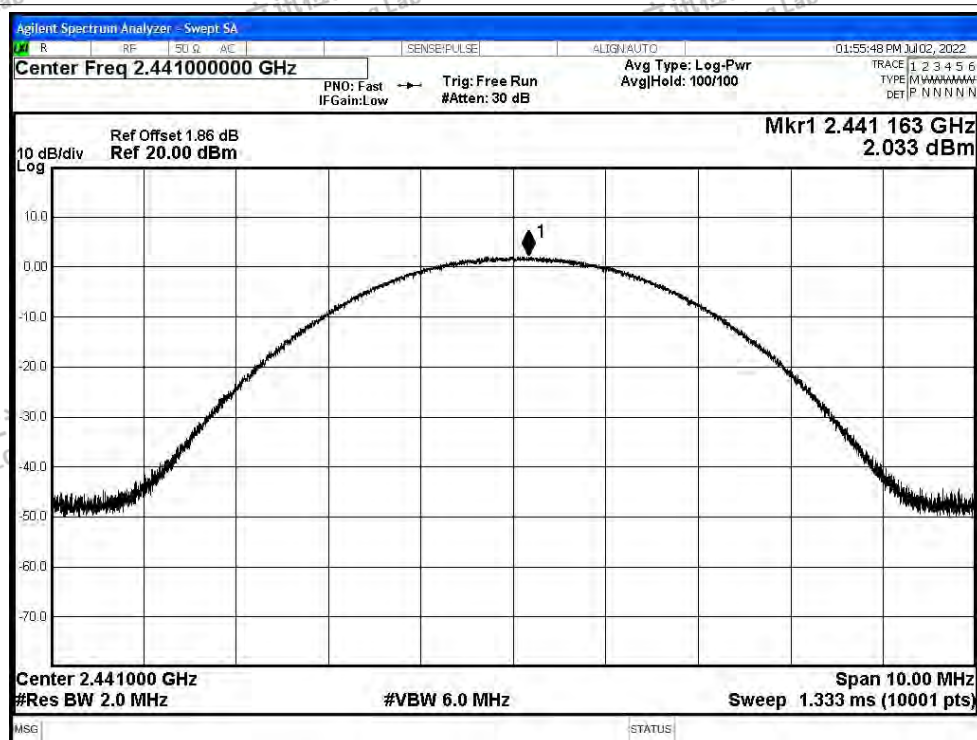
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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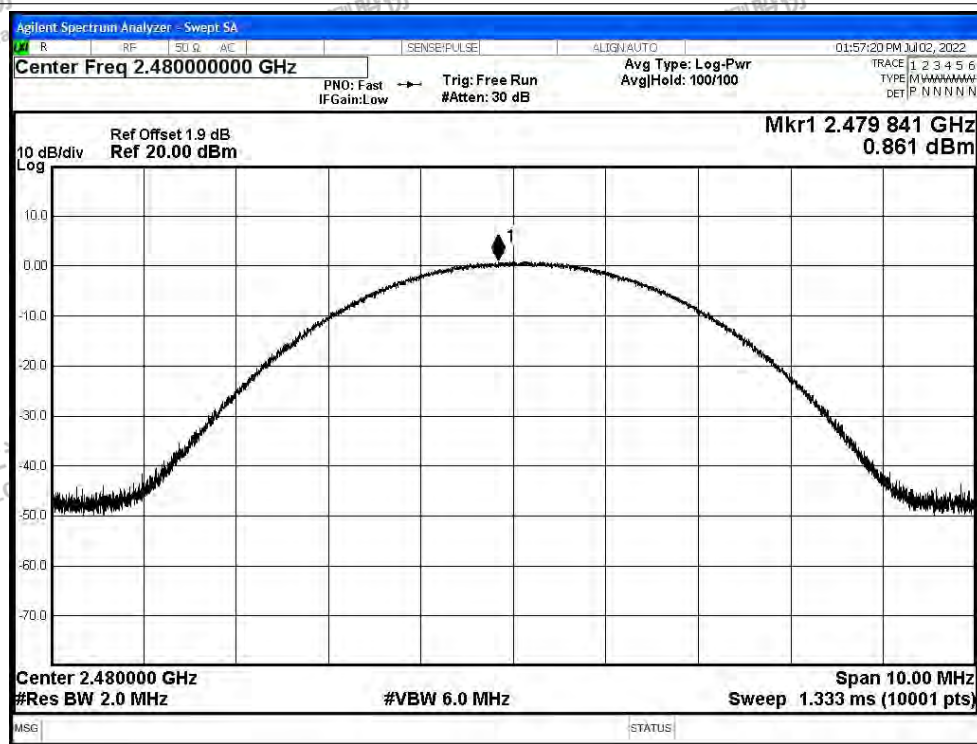
Scan code to check authenticity



Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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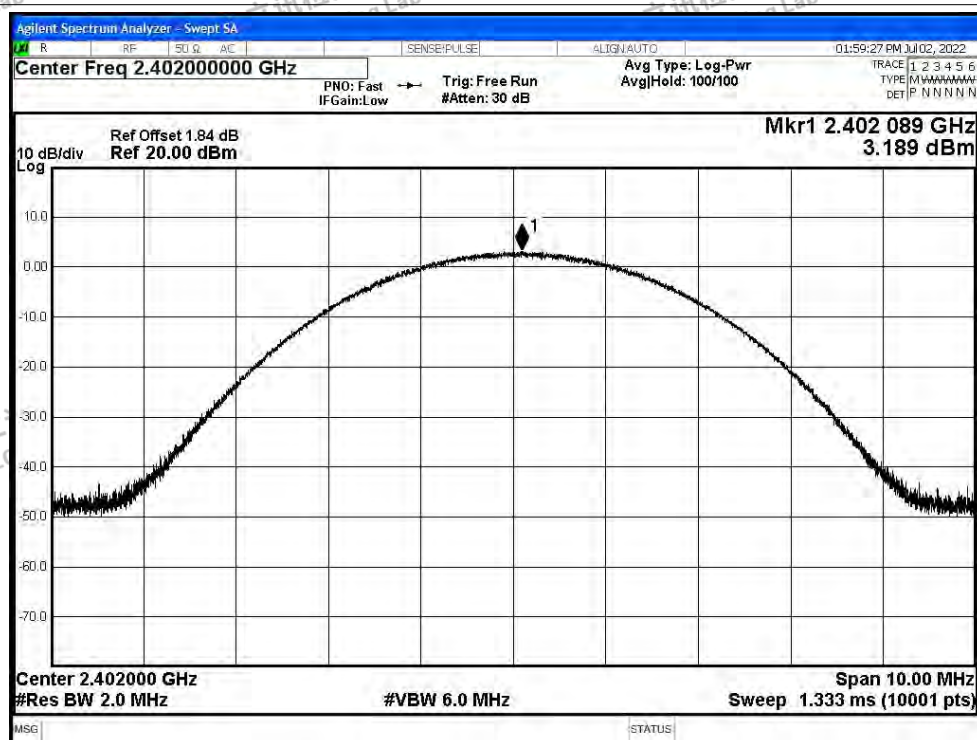
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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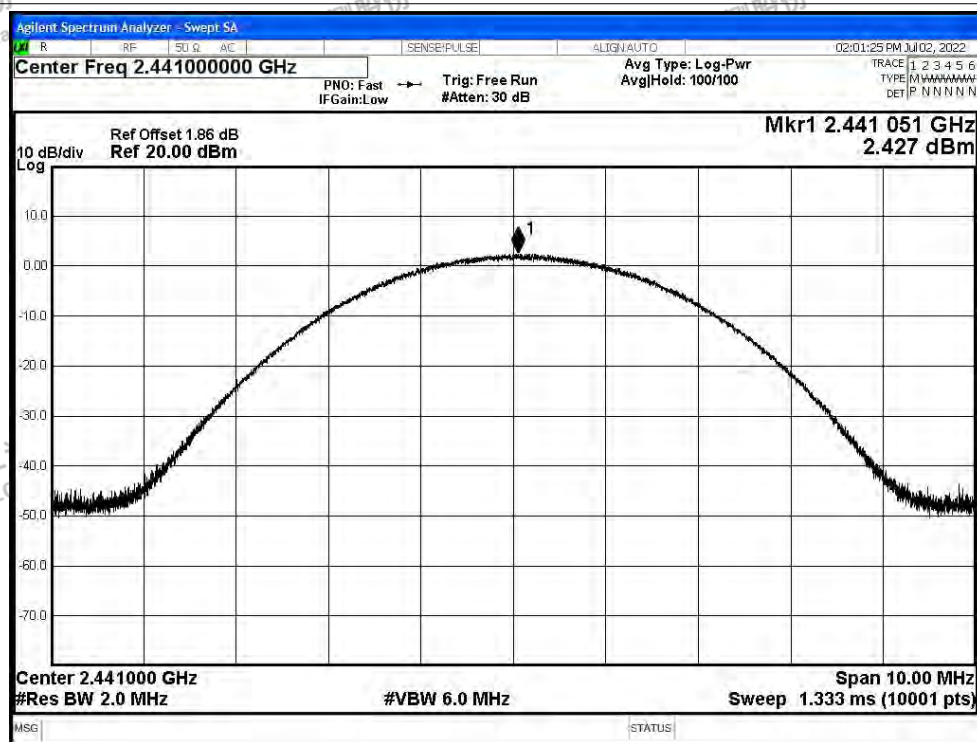
Scan code to check authenticity



Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

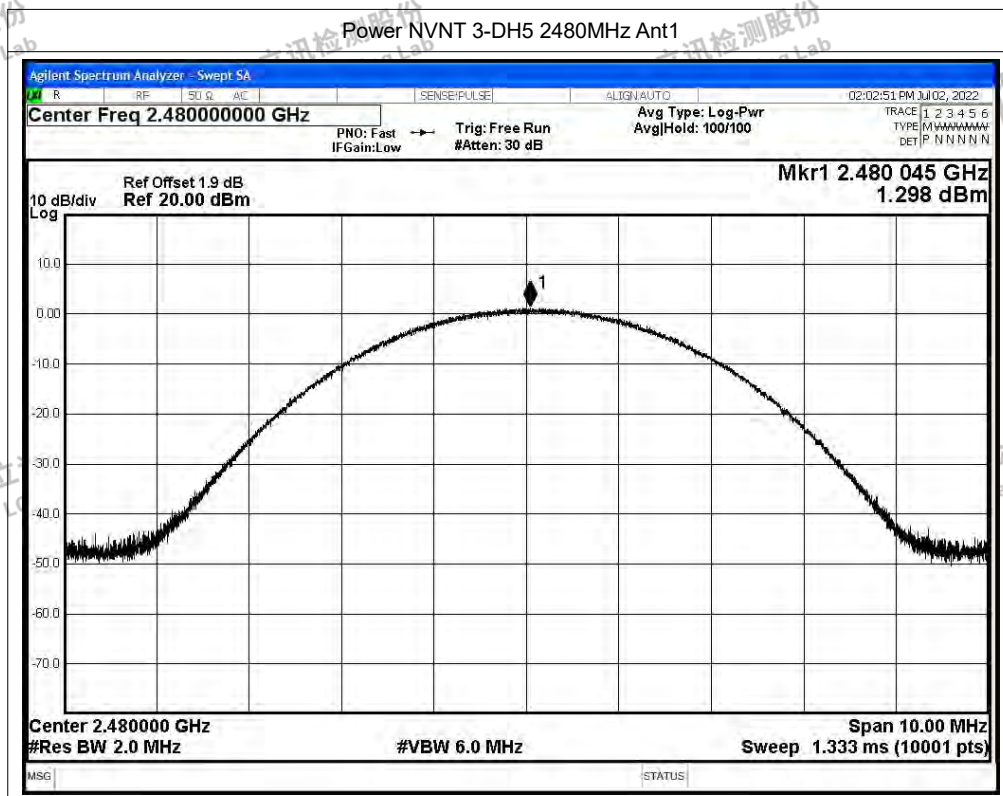


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A.3 Carrier Frequencies Separation

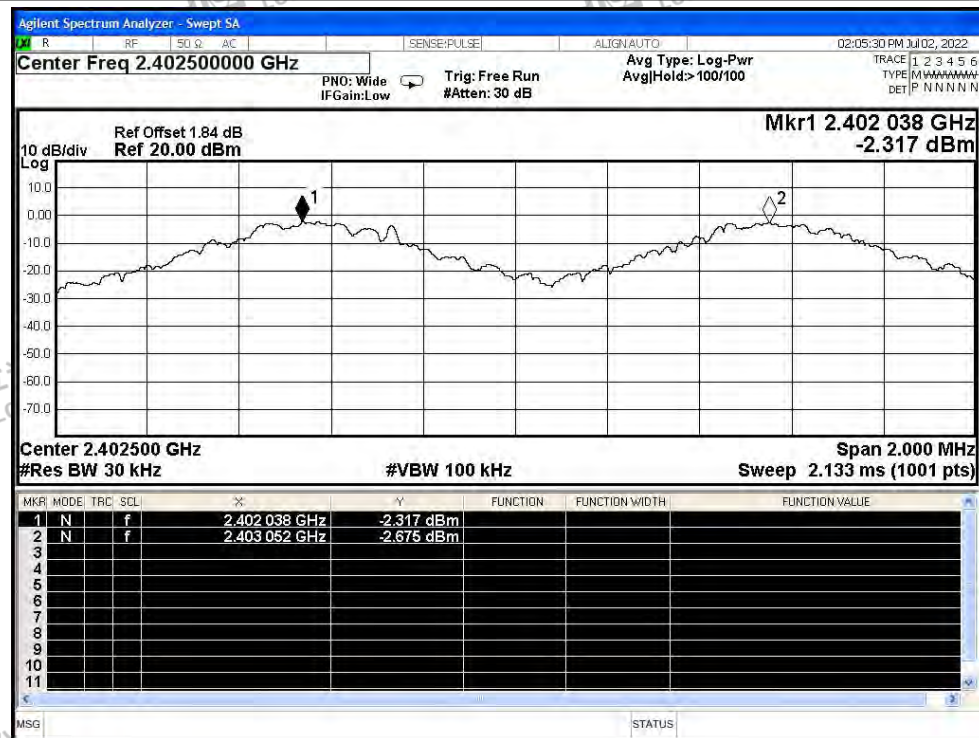
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.038	2403.052	1.014	0.625	Pass
NVNT	2-DH5	Ant1	2402.062	2403.058	0.996	0.886	Pass
NVNT	3-DH5	Ant1	2402.226	2403.222	0.996	0.871	Pass



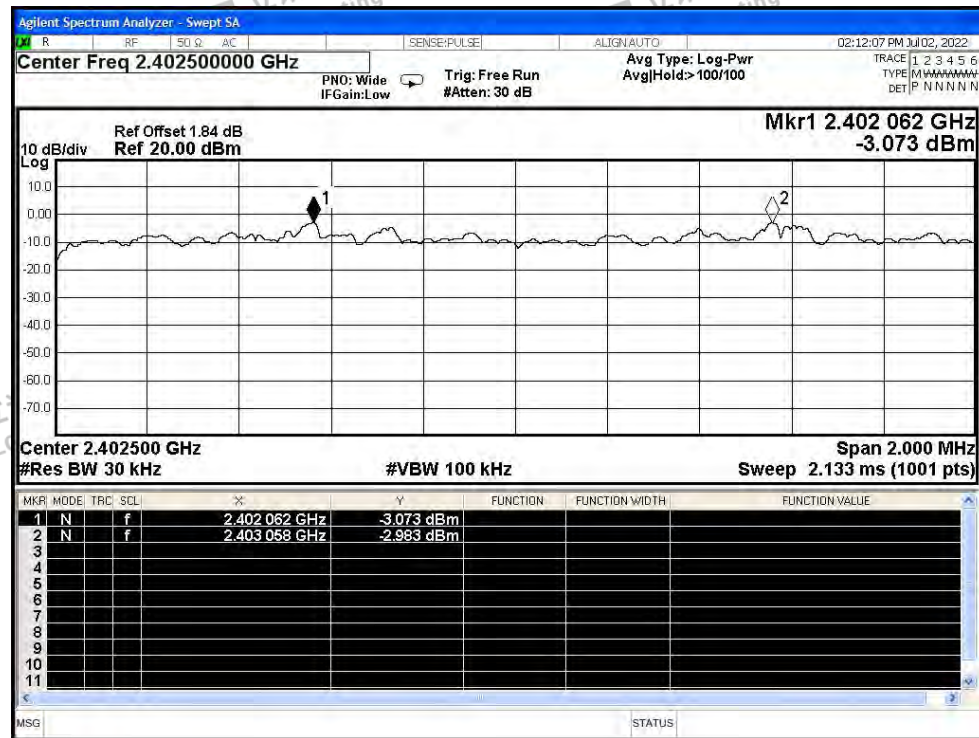


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

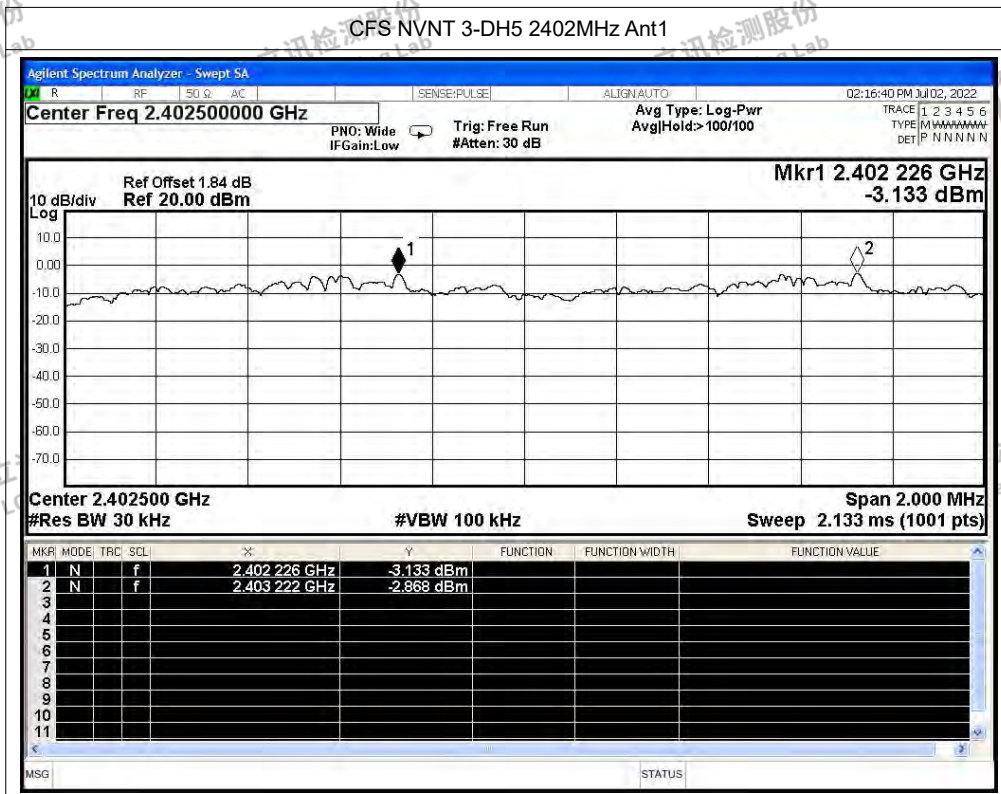


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A.4 Dwell Time

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	273.79	95	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.888	326.344	113	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.891	335.356	116	31600	400	Pass

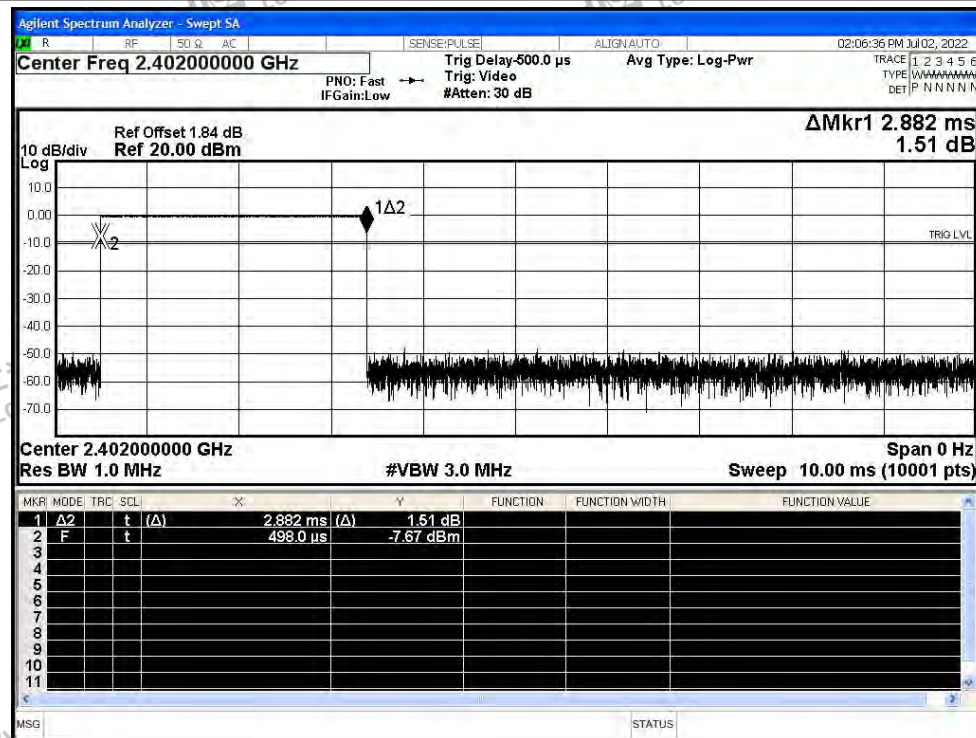


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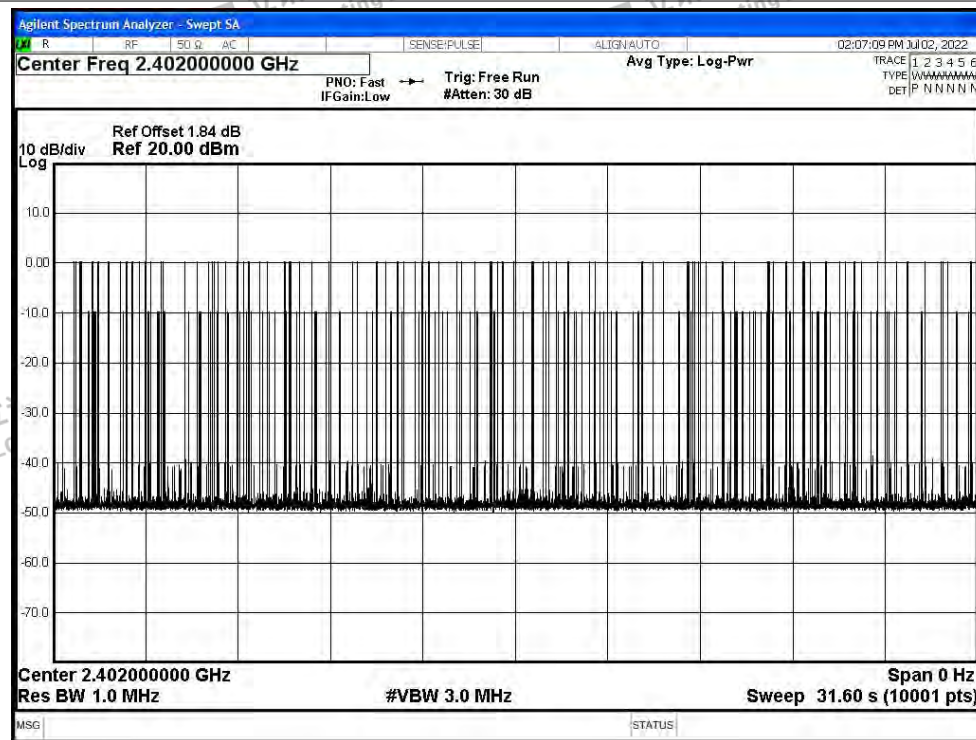


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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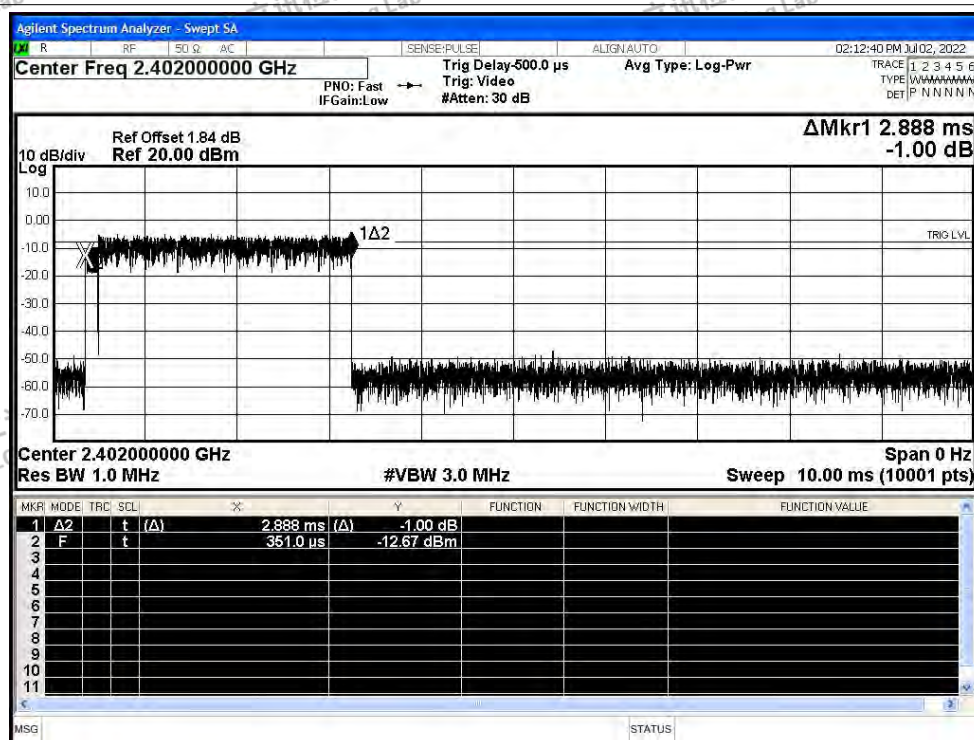
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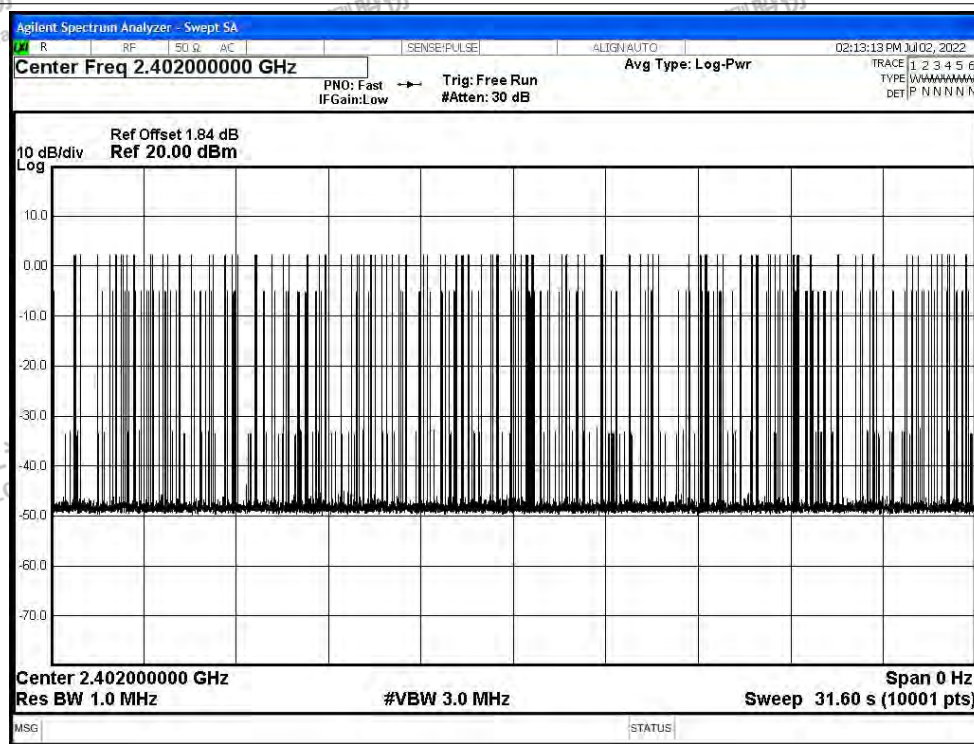
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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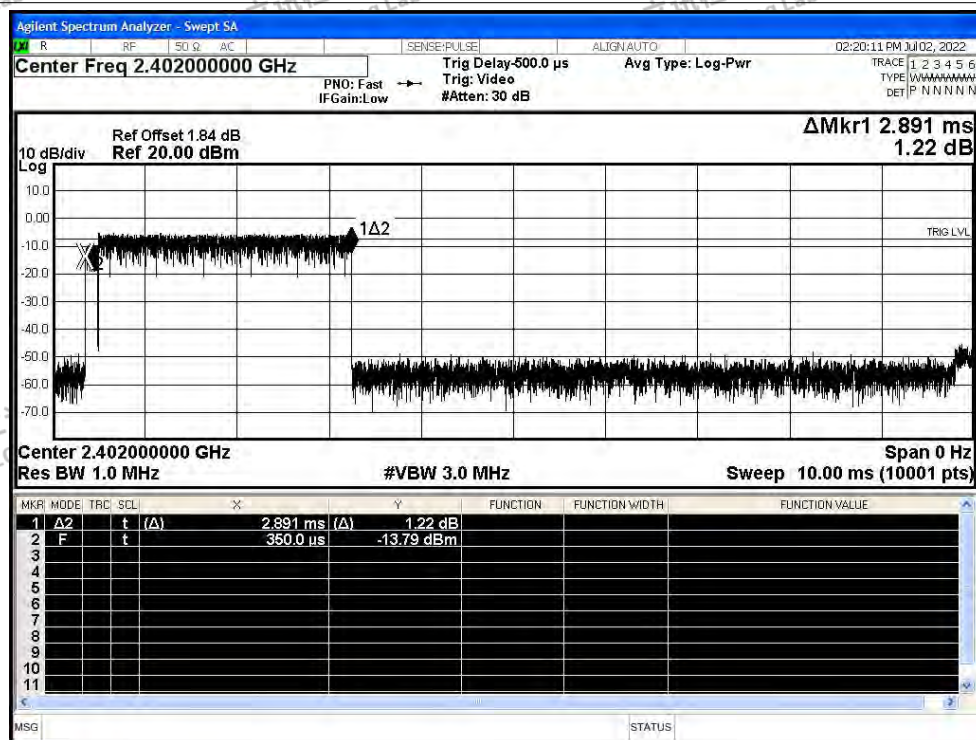
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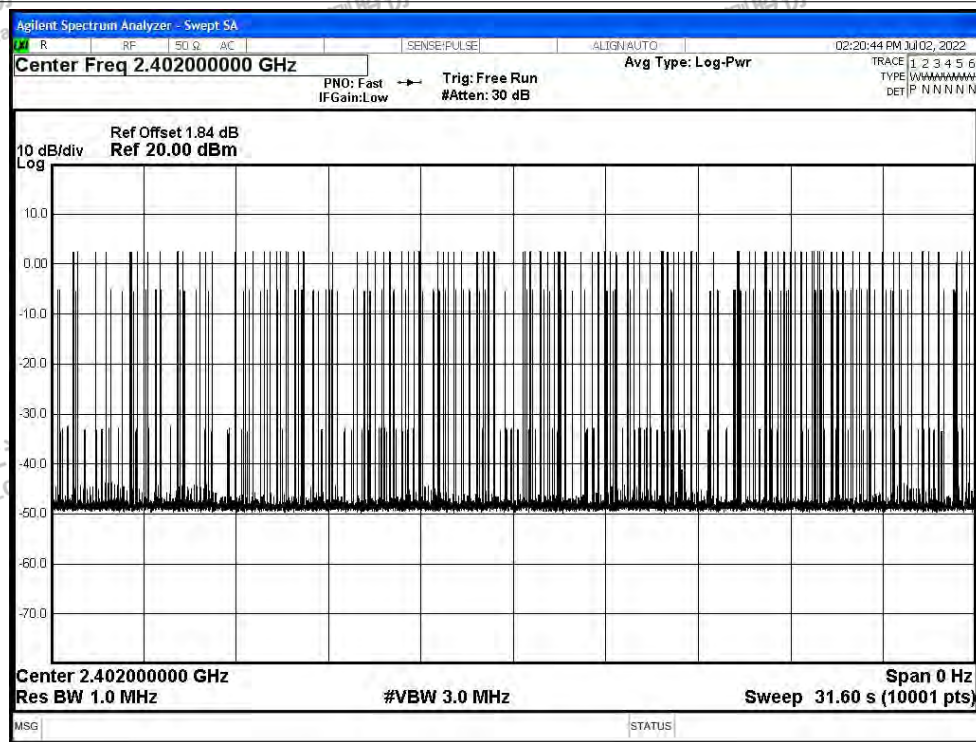
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

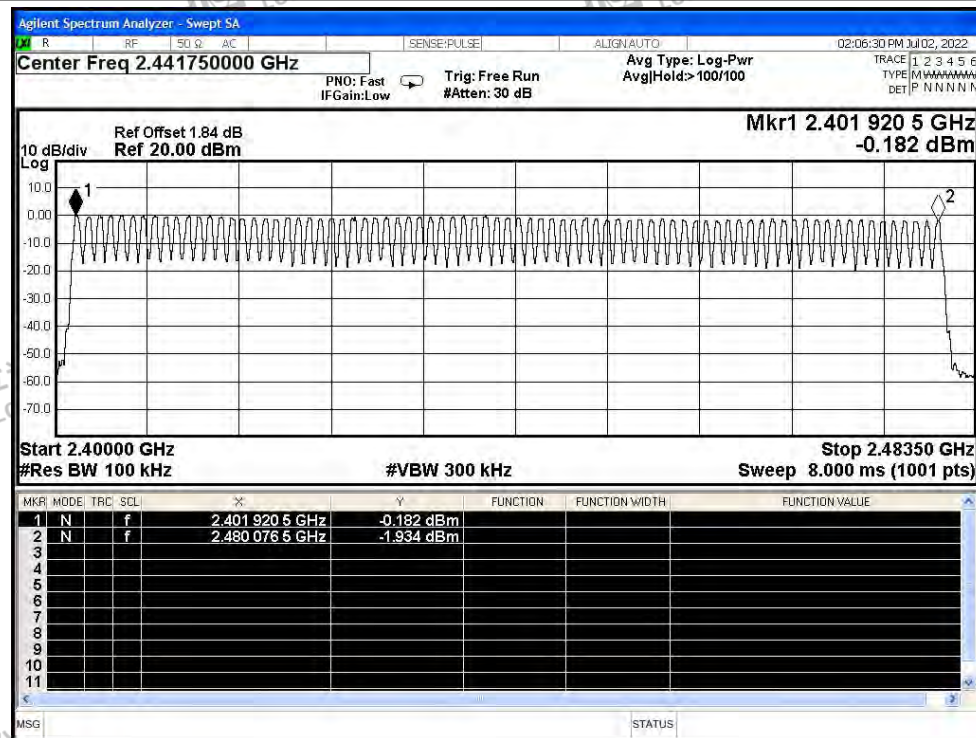


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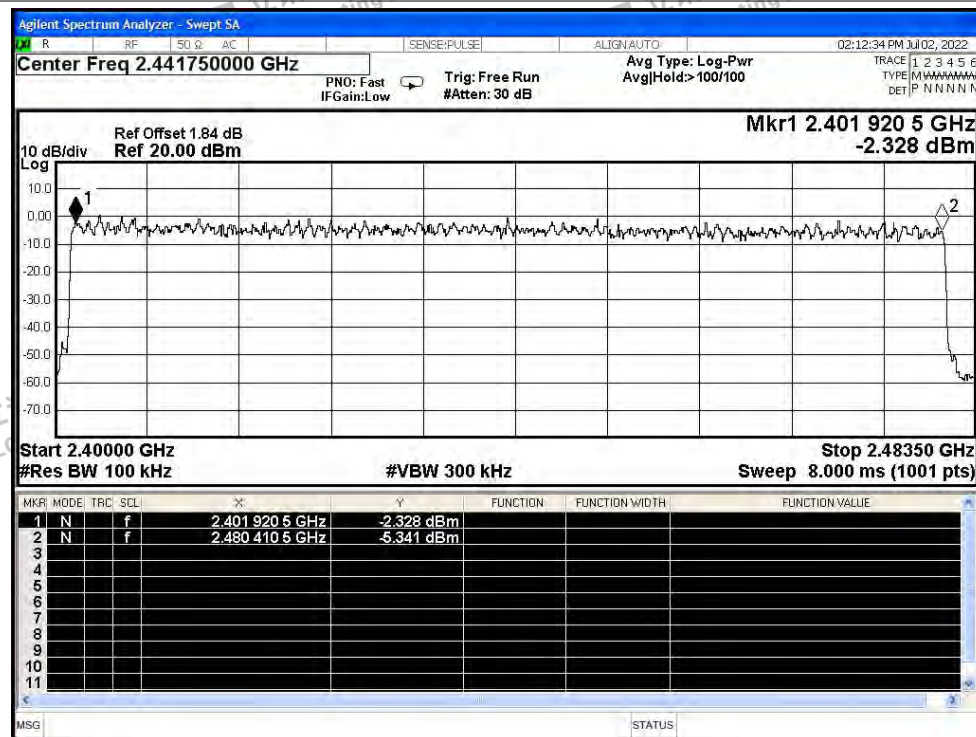


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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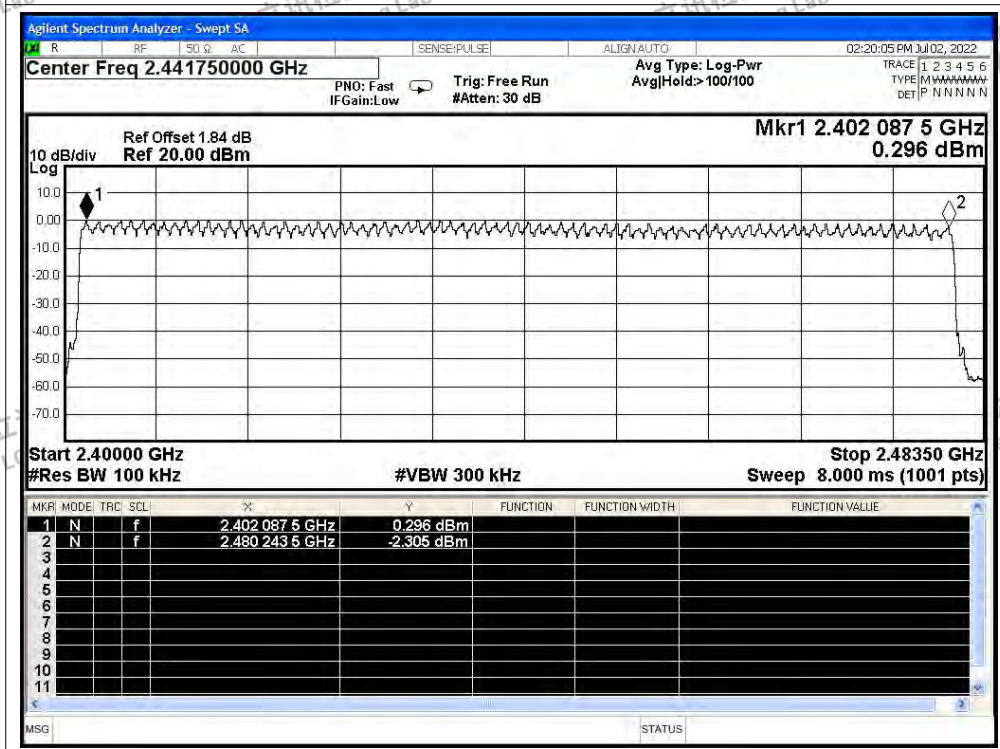
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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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	-52.67	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.22	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.68	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.03	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.44	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.06	-20	Pass

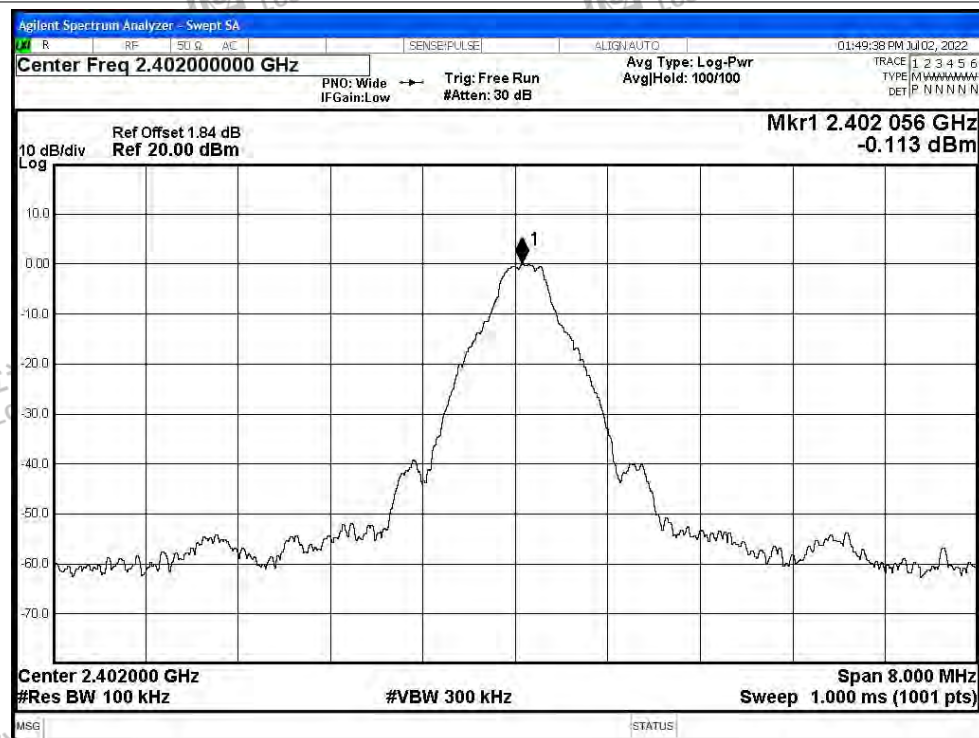


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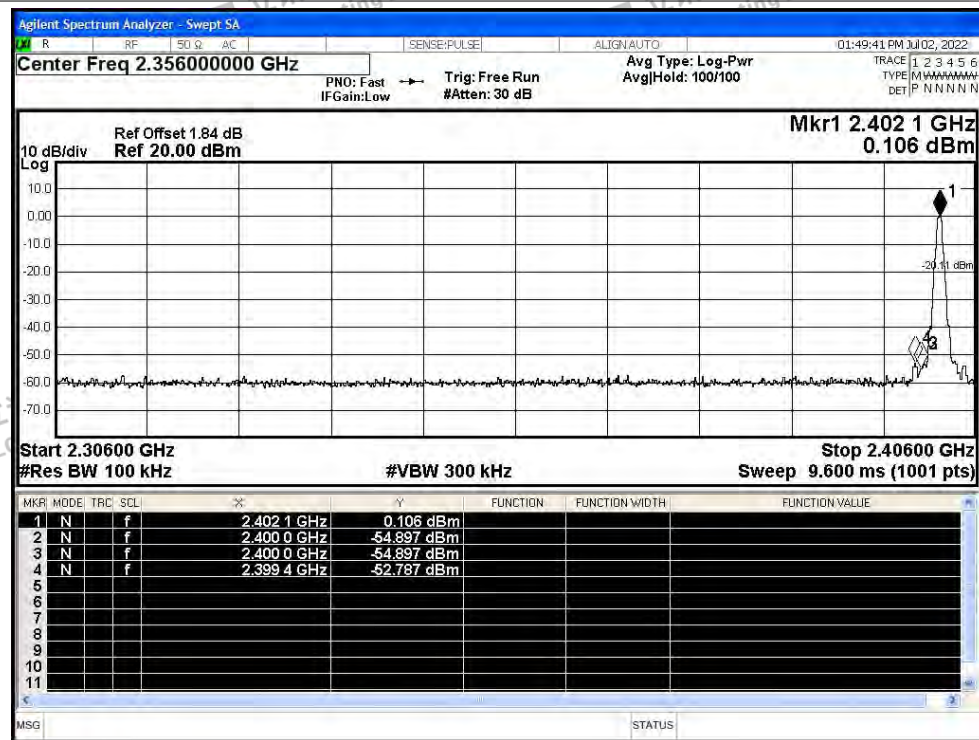


Test Graphs

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



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



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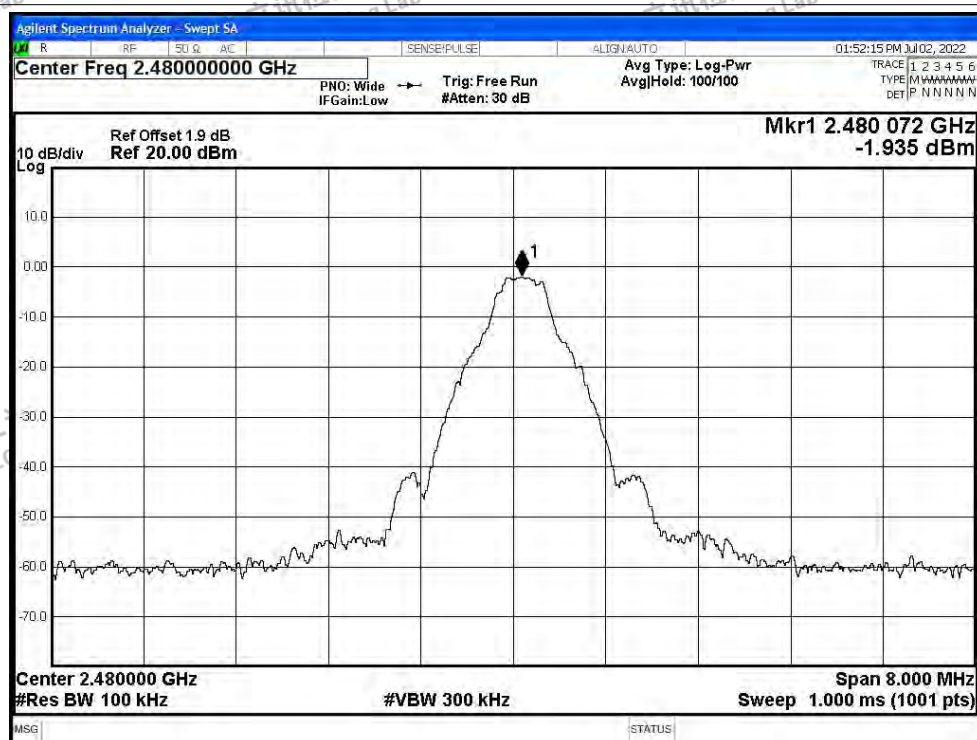
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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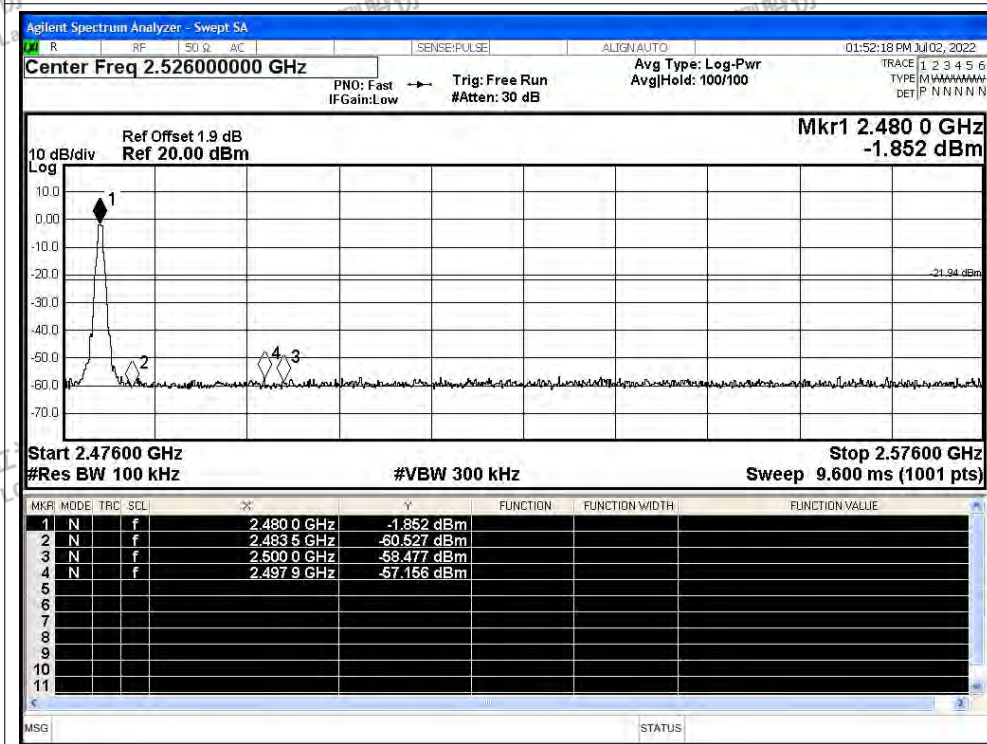
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

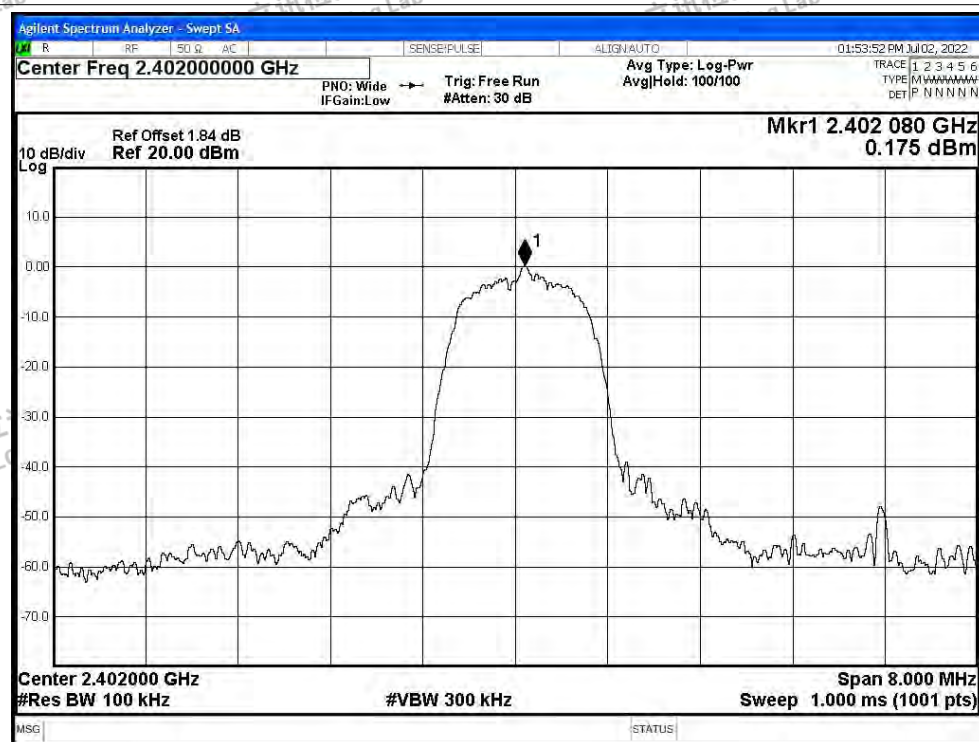
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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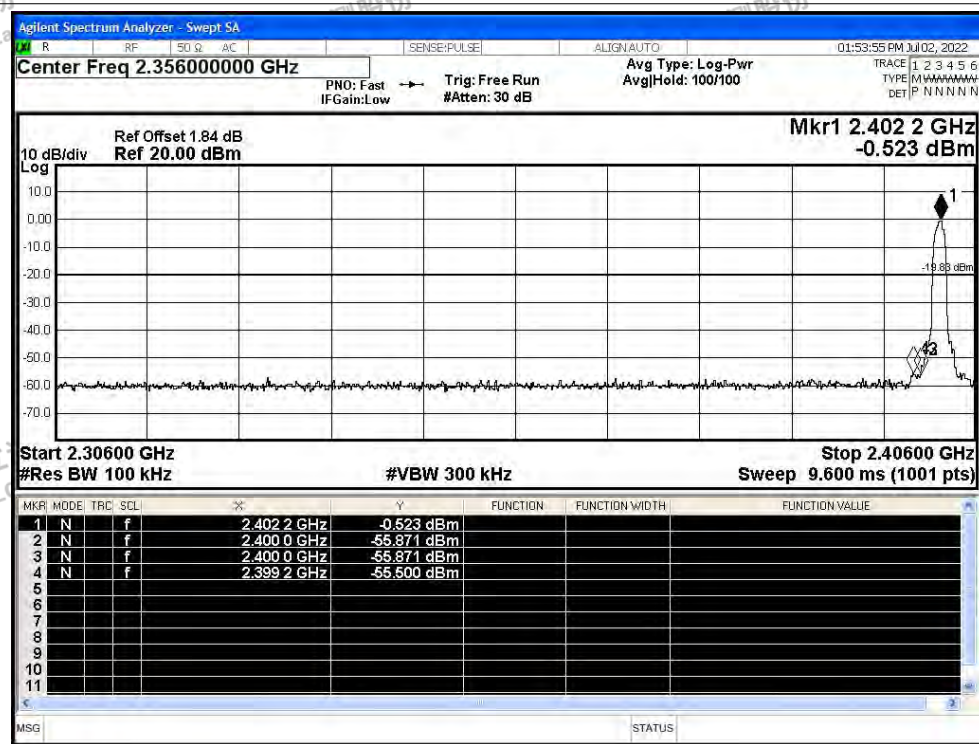
Scan code to check authenticity



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.

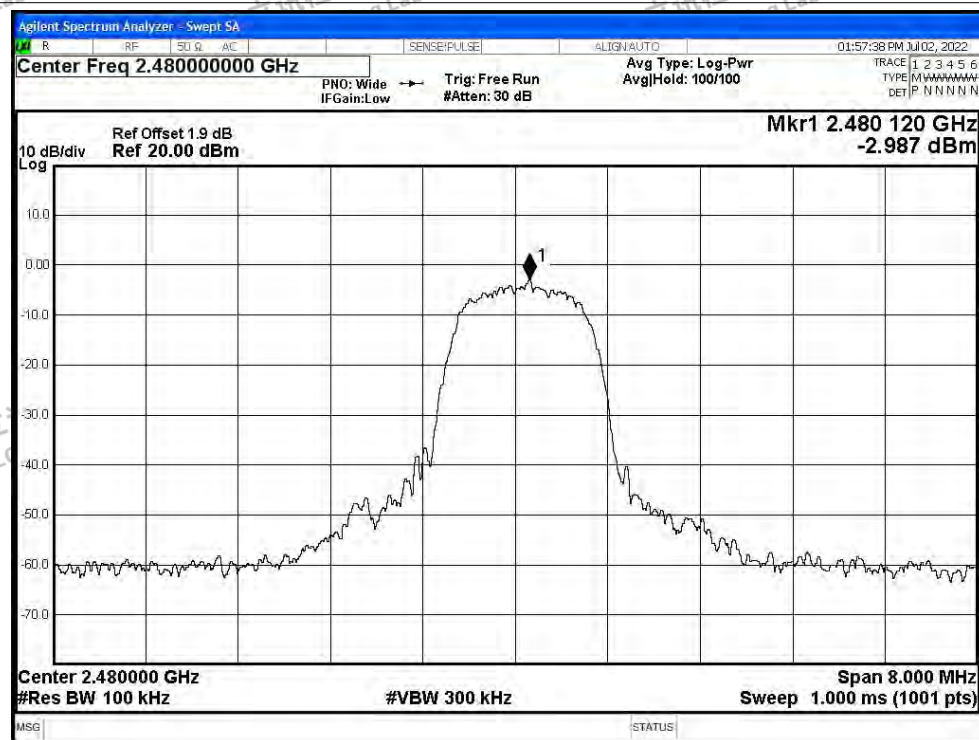
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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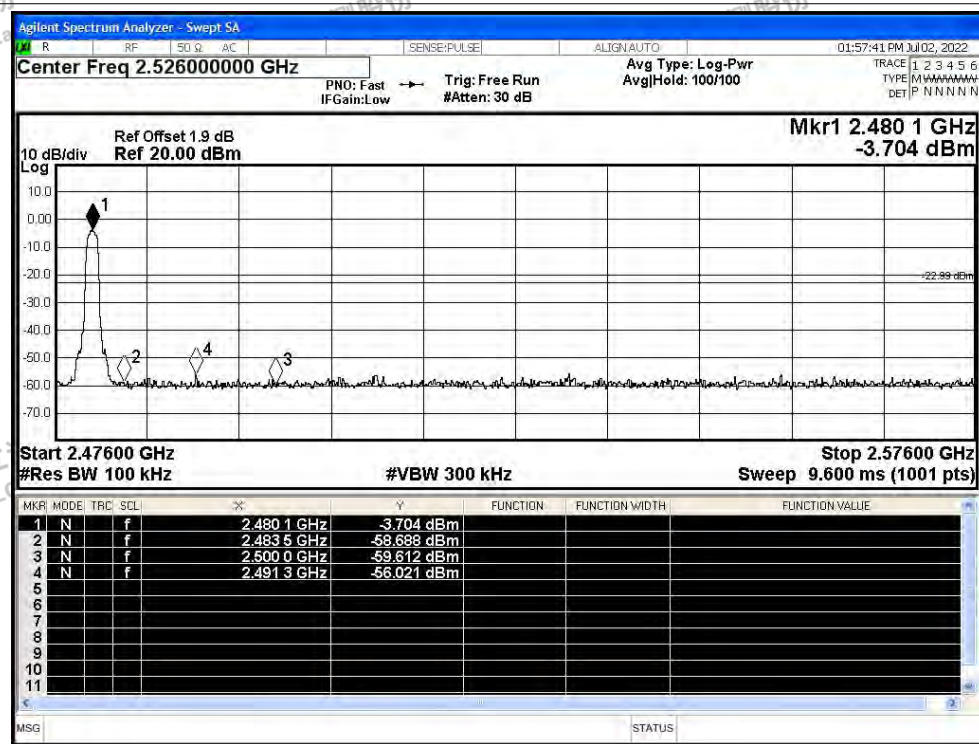
Scan code to check authenticity



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



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



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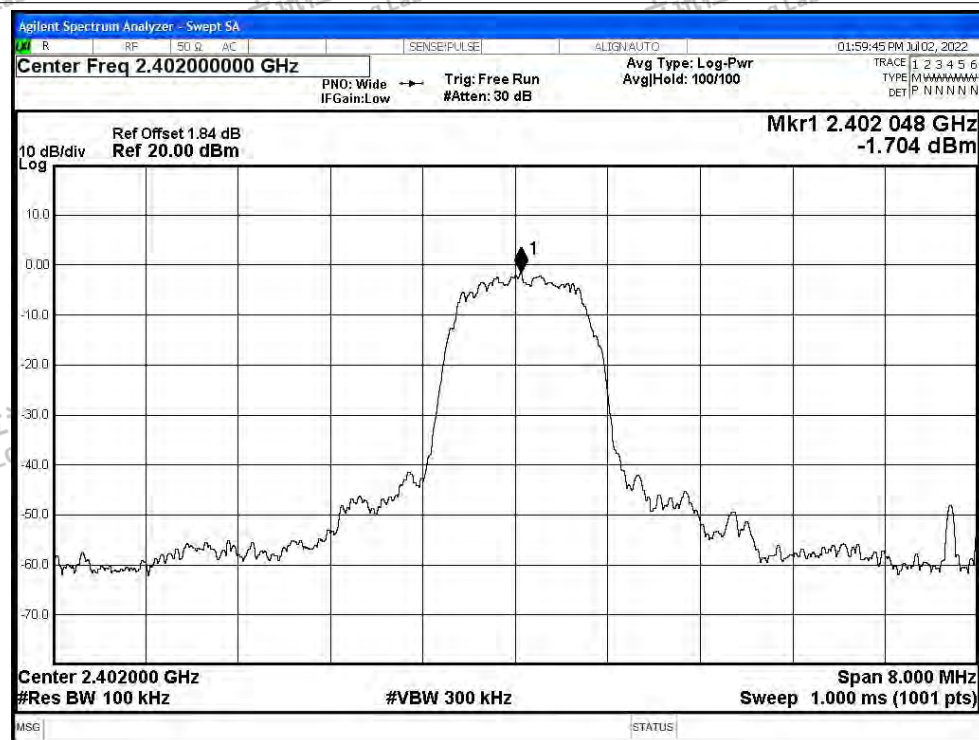
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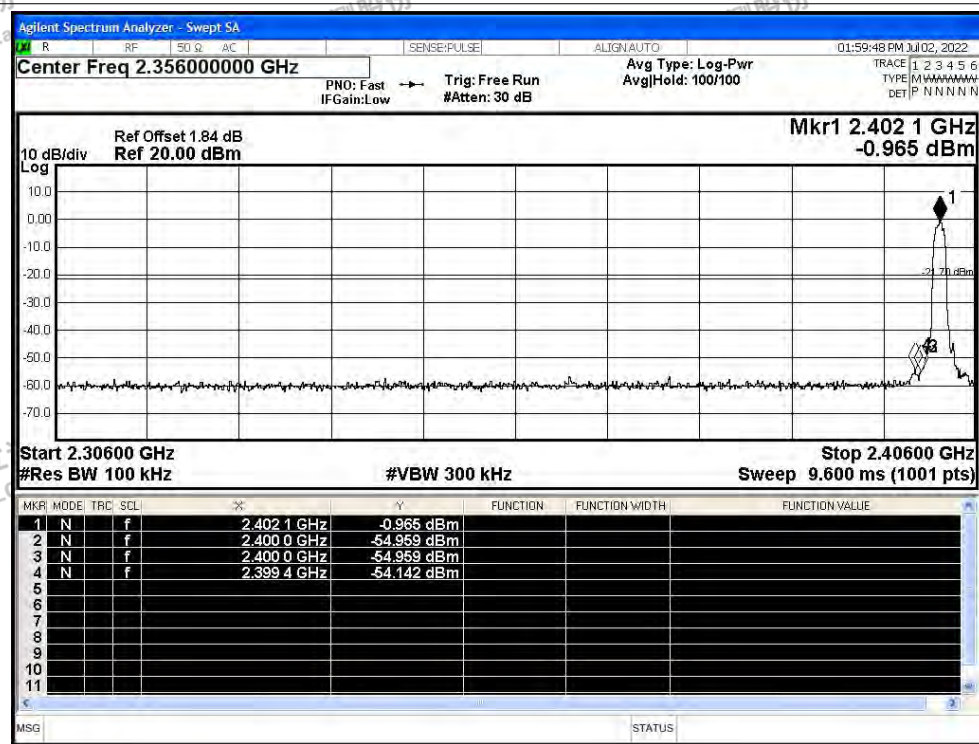
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

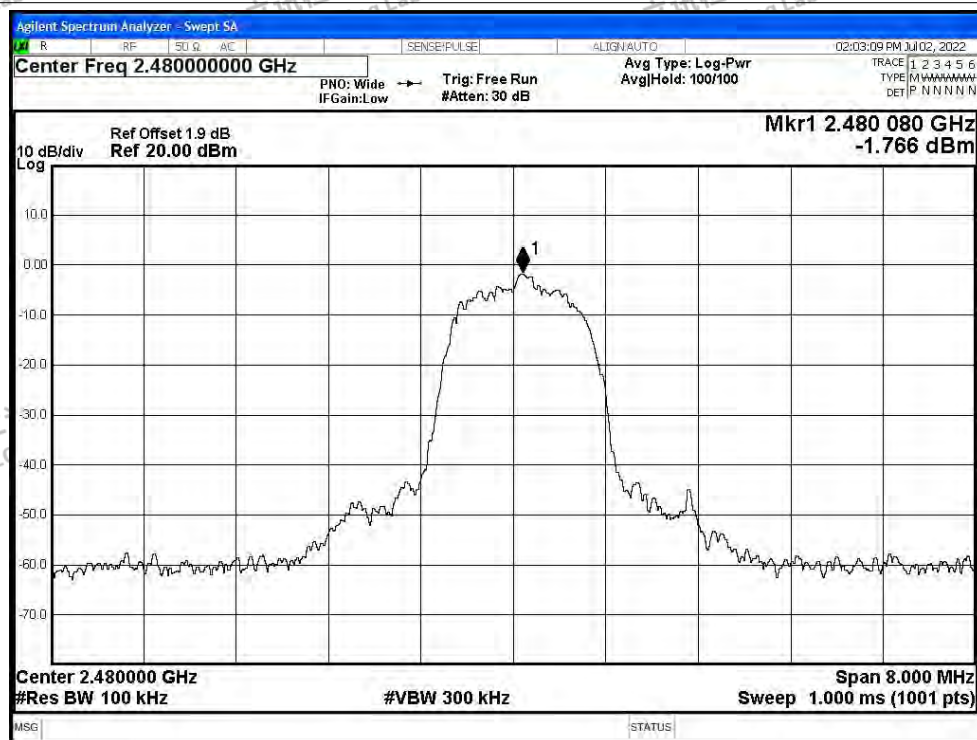
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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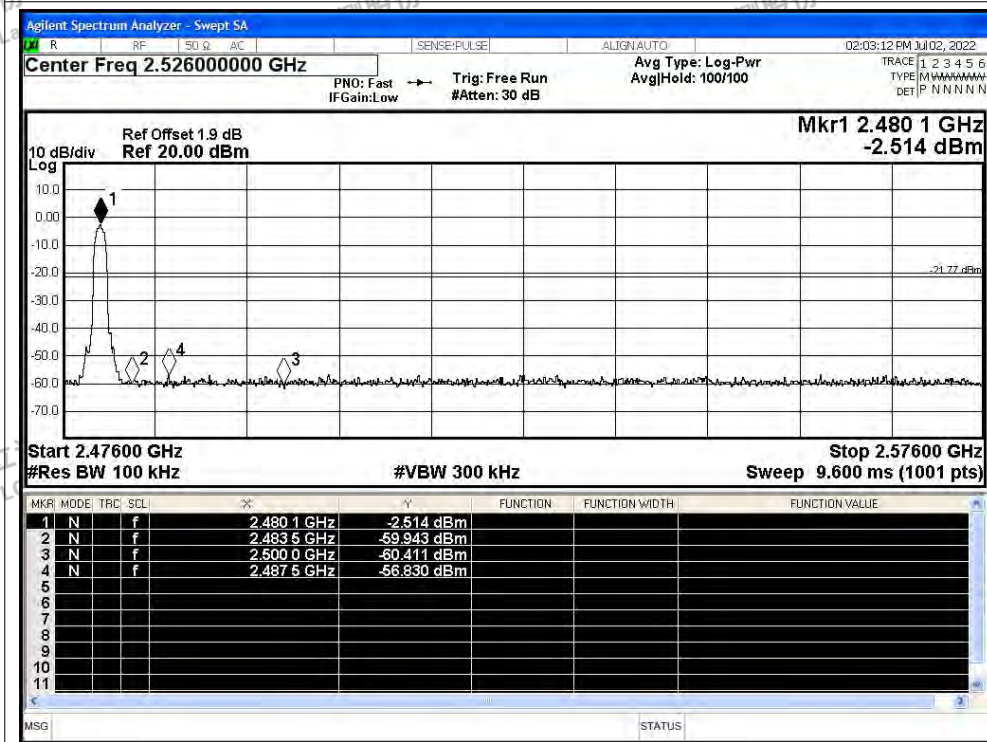
Scan code to check authenticity



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	-56.26	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.09	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.55	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.55	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.58	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.8	-20	Pass

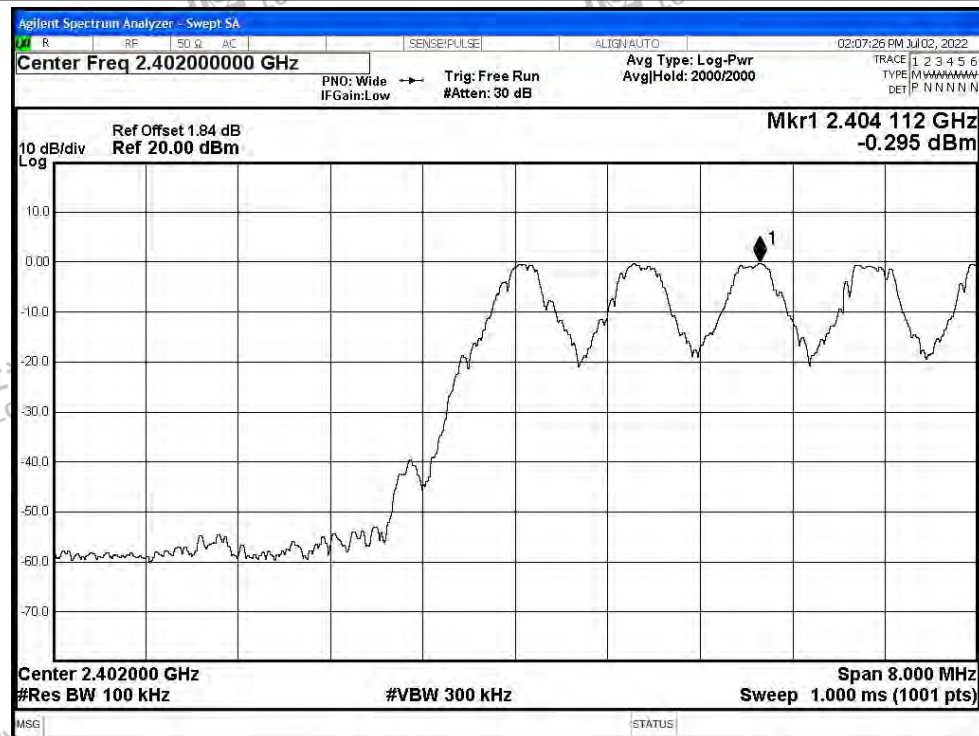


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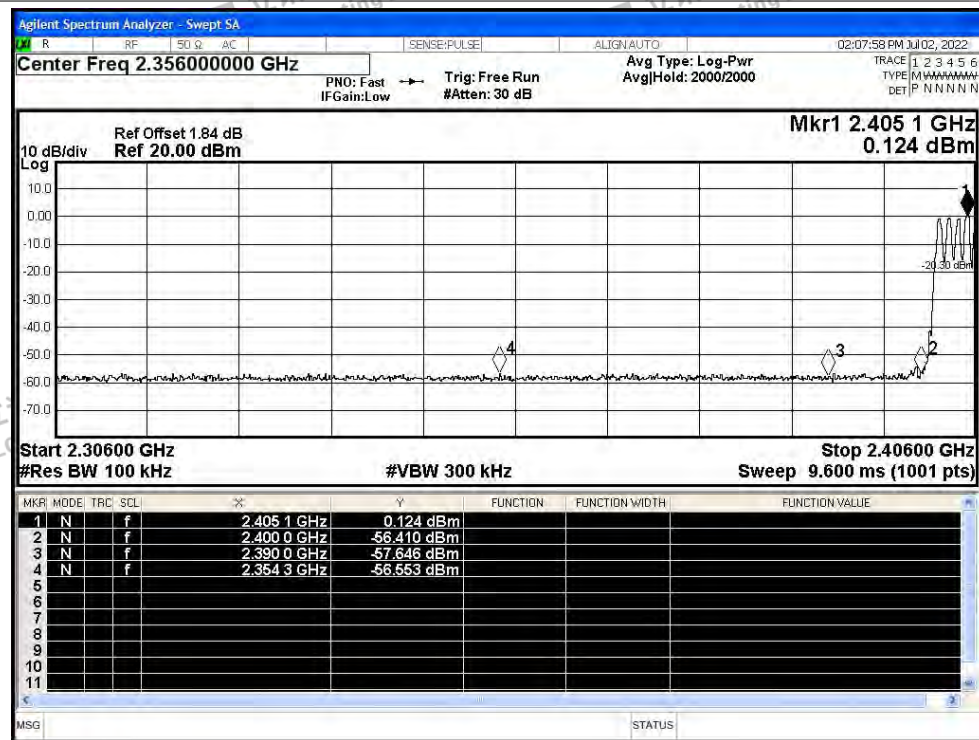


Test Graphs

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.

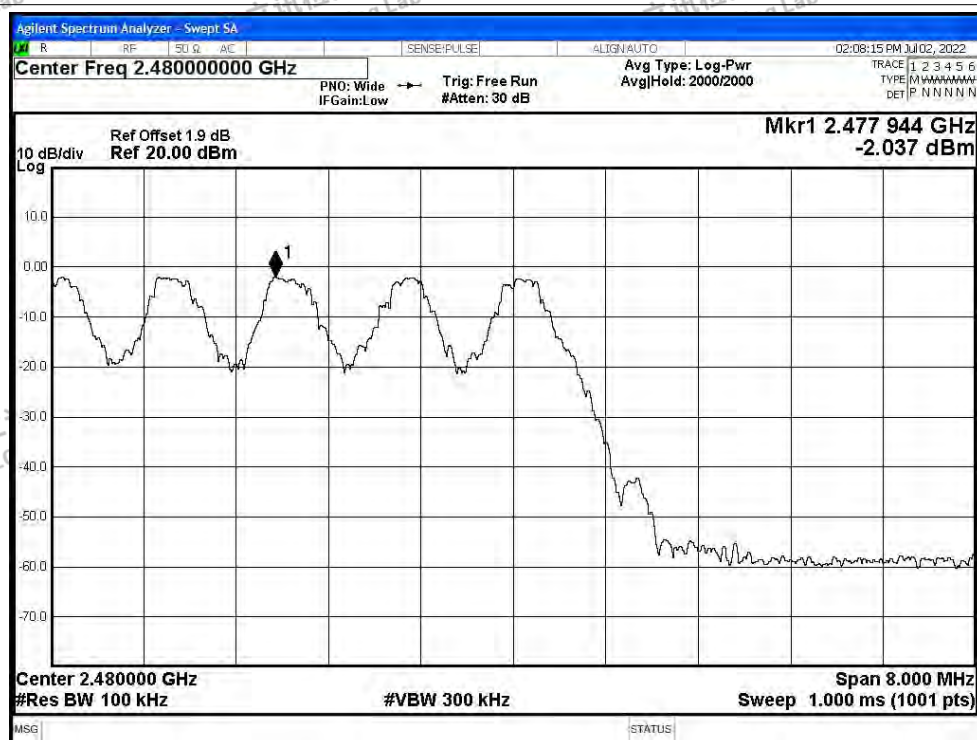
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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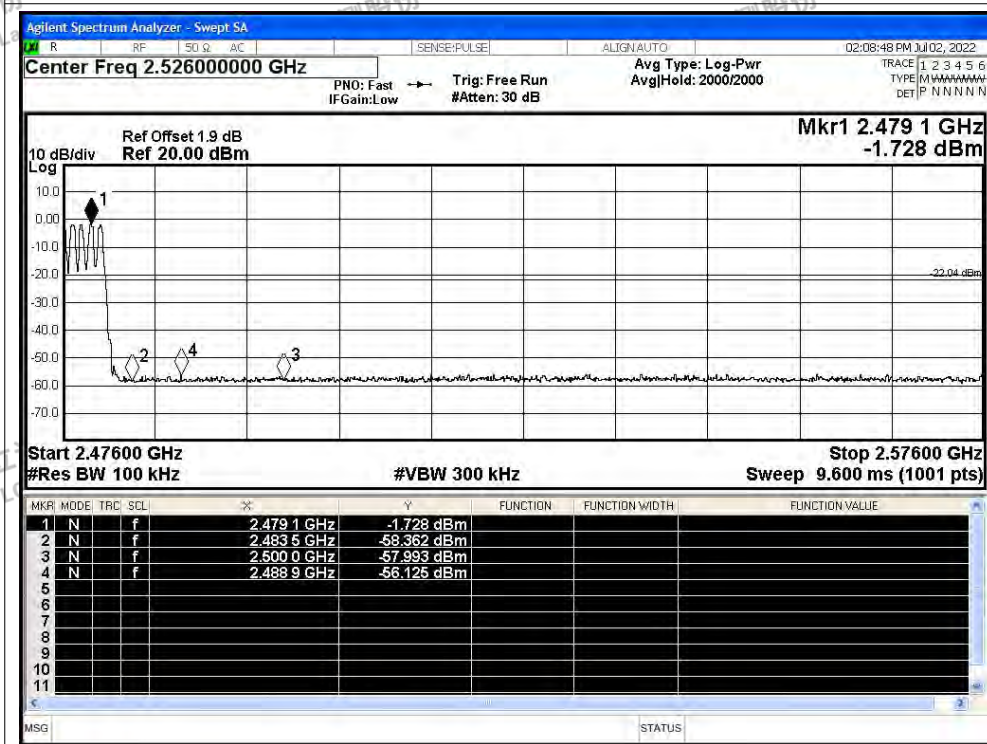
Scan code to check authenticity



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



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



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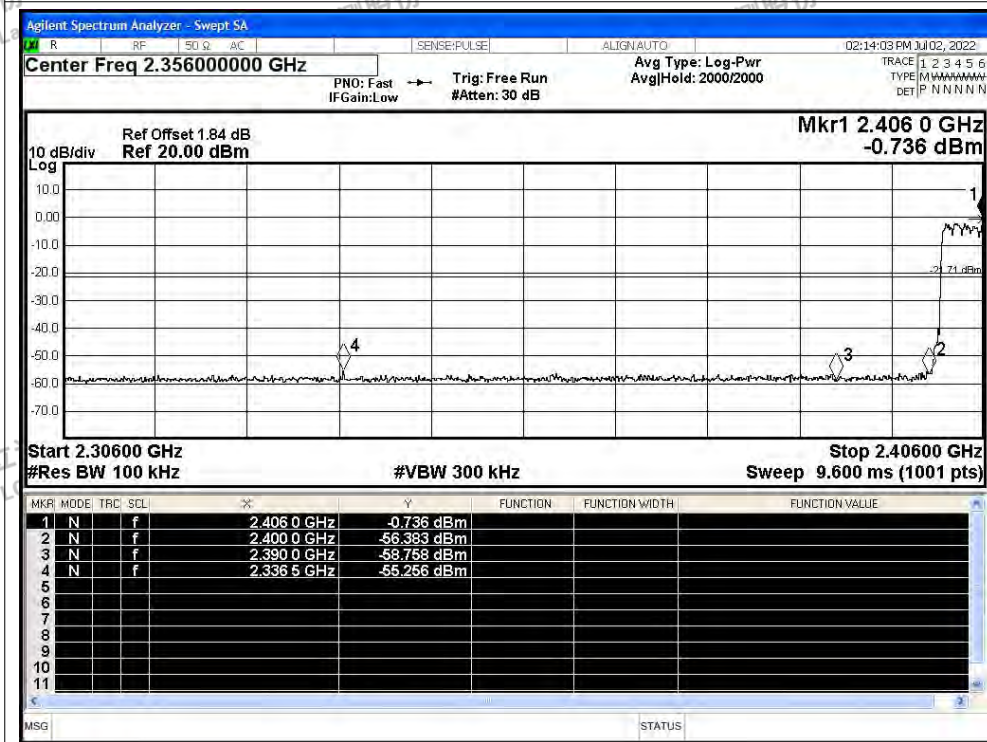
Scan code to check authenticity



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



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



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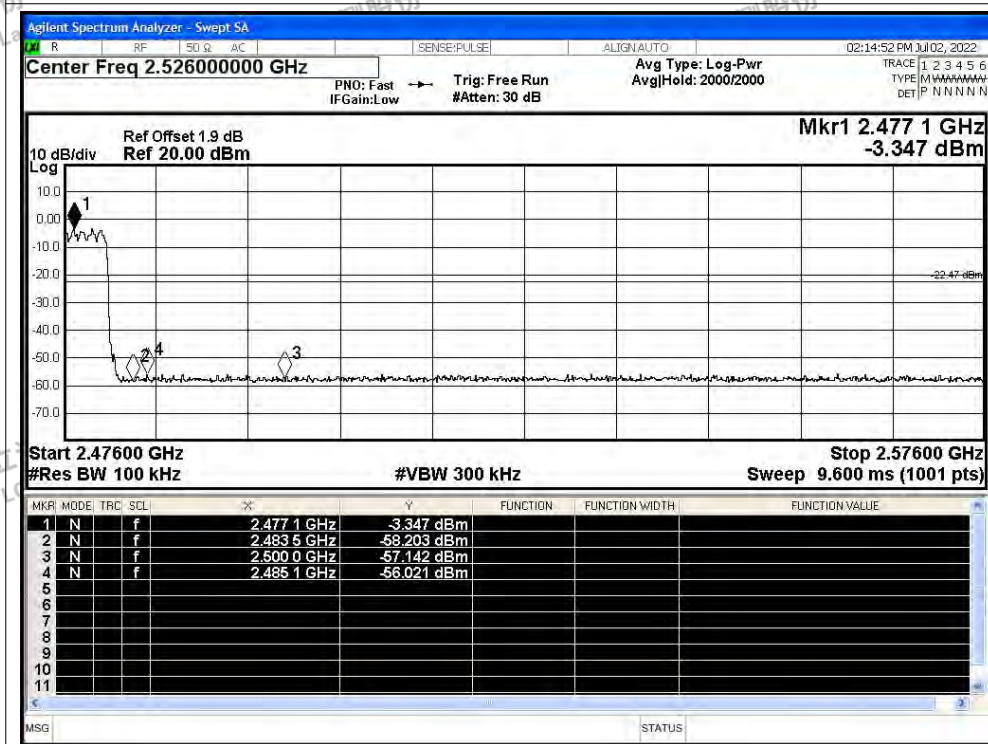
Scan code to check authenticity



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



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



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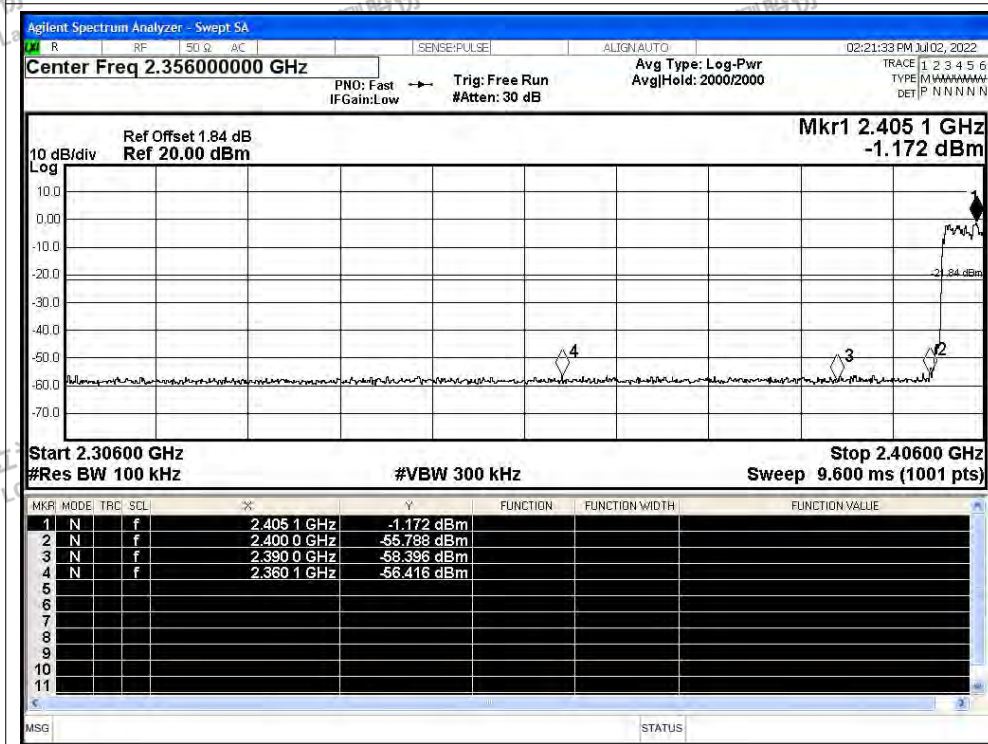
Scan code to check authenticity



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



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



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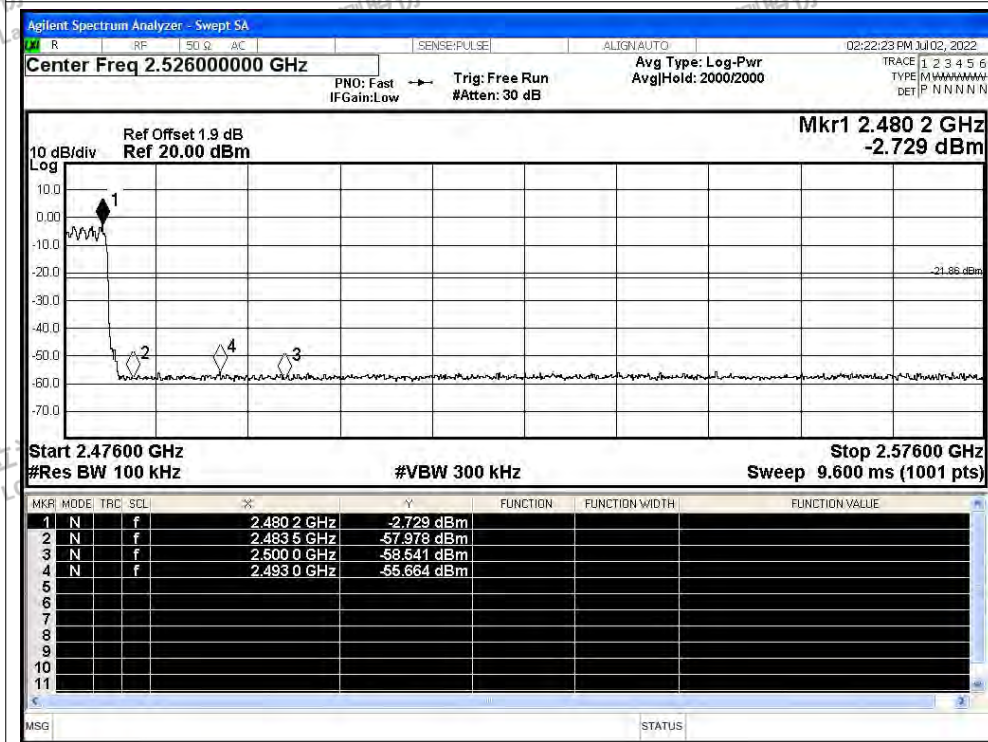
Scan code to check authenticity



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	-45.57	-20	Pass
NVNT	1-DH5	2441	Ant1	-50.47	-20	Pass
NVNT	1-DH5	2480	Ant1	-50.12	-20	Pass
NVNT	2-DH5	2402	Ant1	-45.16	-20	Pass
NVNT	2-DH5	2441	Ant1	-49.83	-20	Pass
NVNT	2-DH5	2480	Ant1	-42.68	-20	Pass
NVNT	3-DH5	2402	Ant1	-45.04	-20	Pass
NVNT	3-DH5	2441	Ant1	-49.72	-20	Pass
NVNT	3-DH5	2480	Ant1	-44.96	-20	Pass

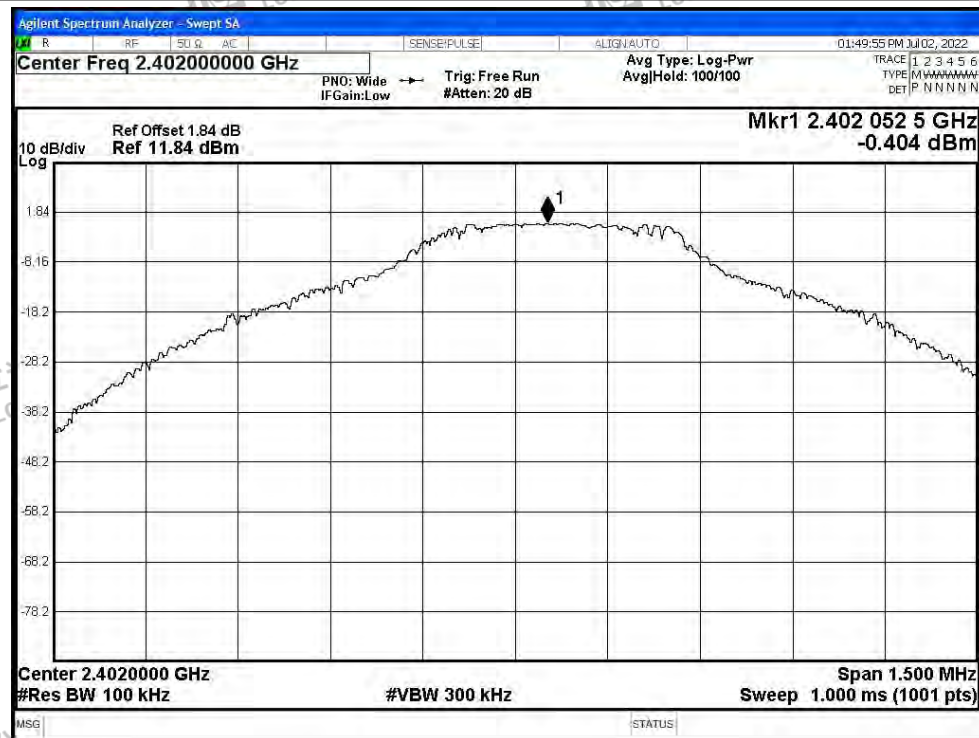


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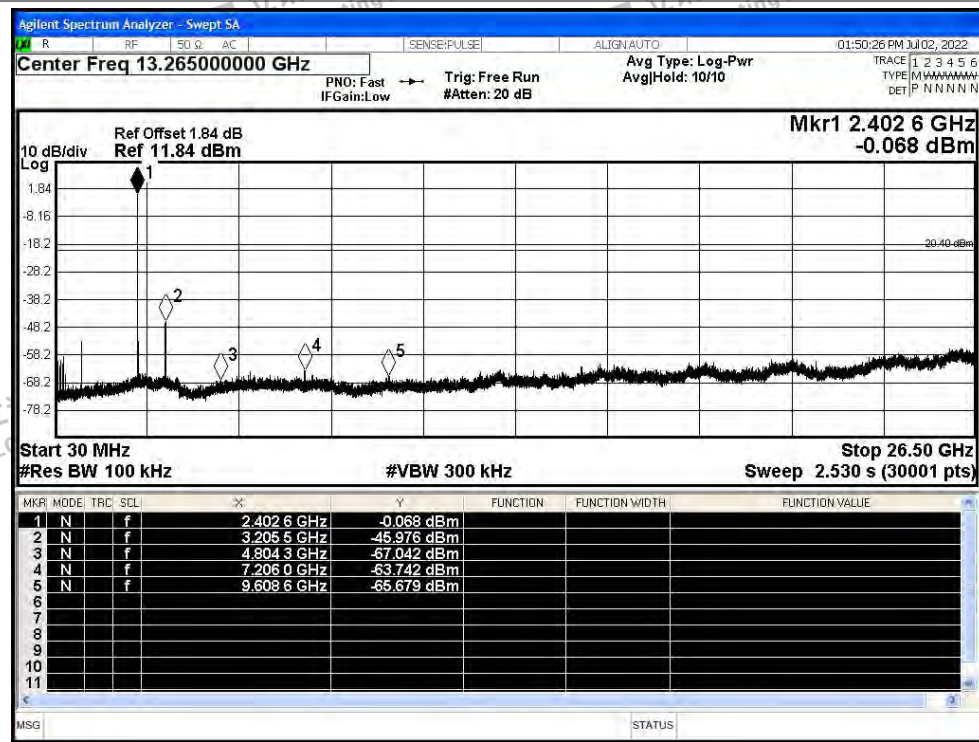


Test Graphs

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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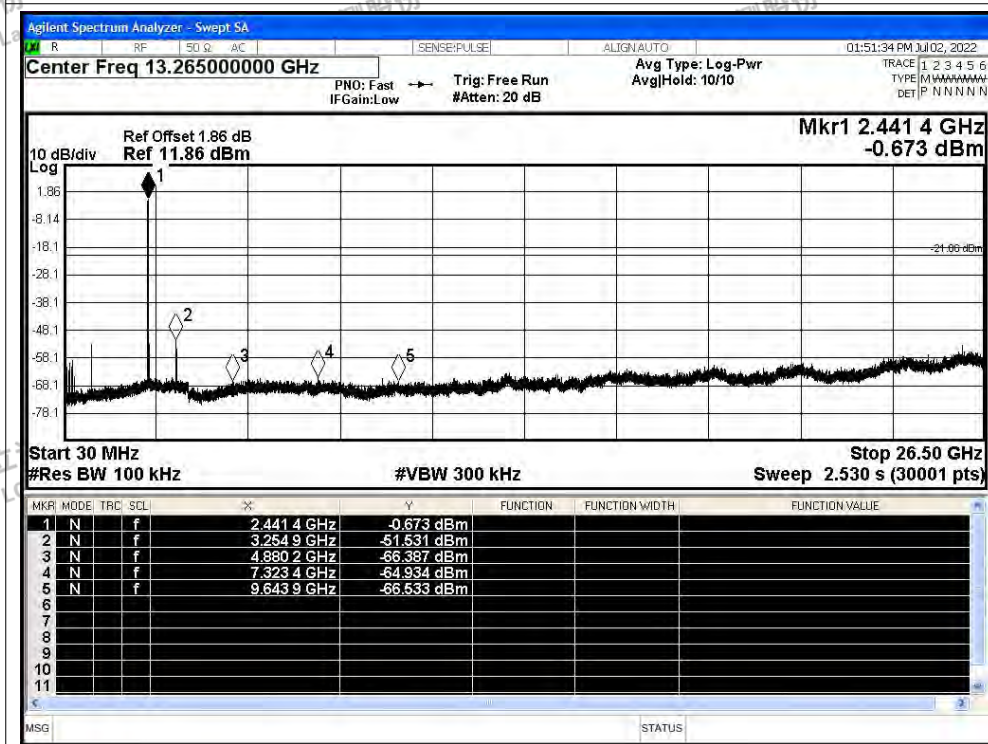
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

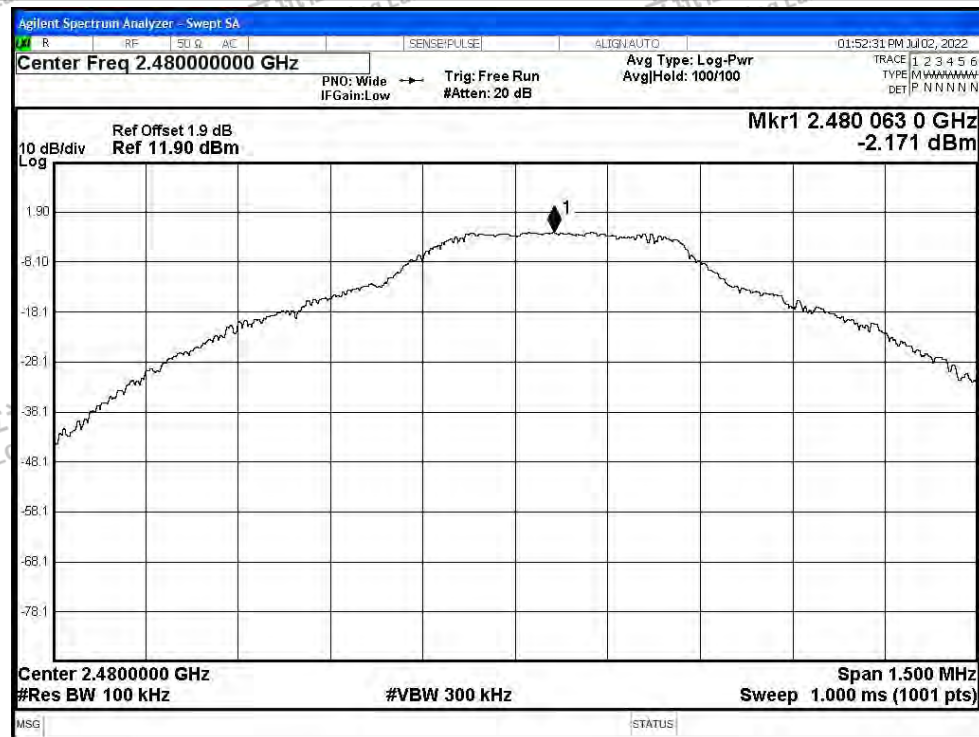
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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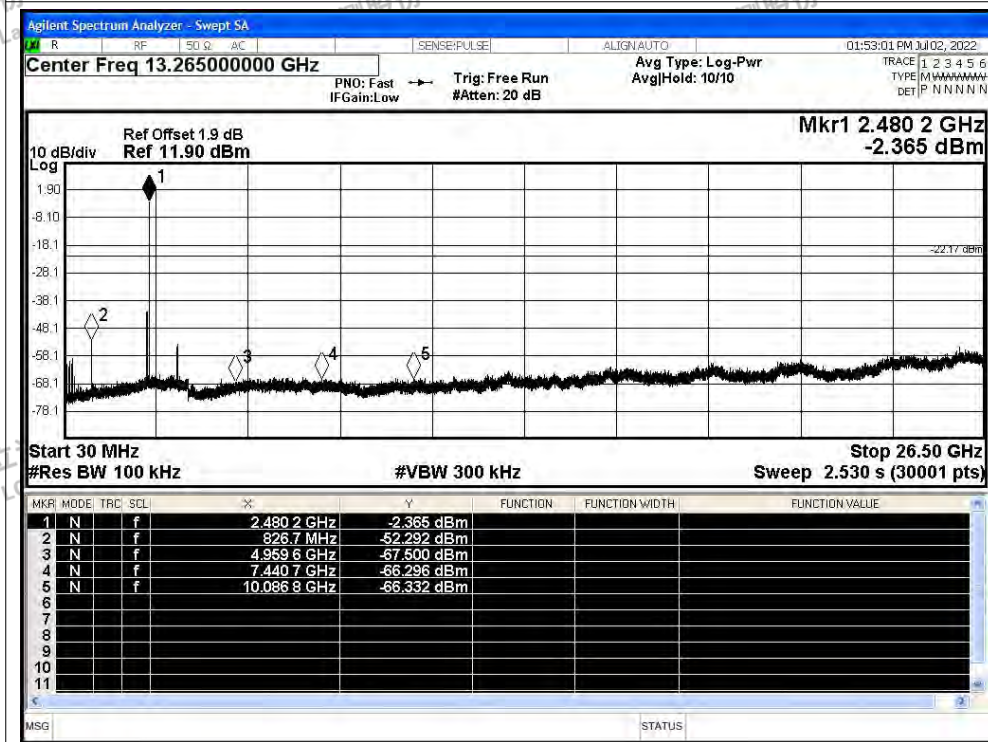
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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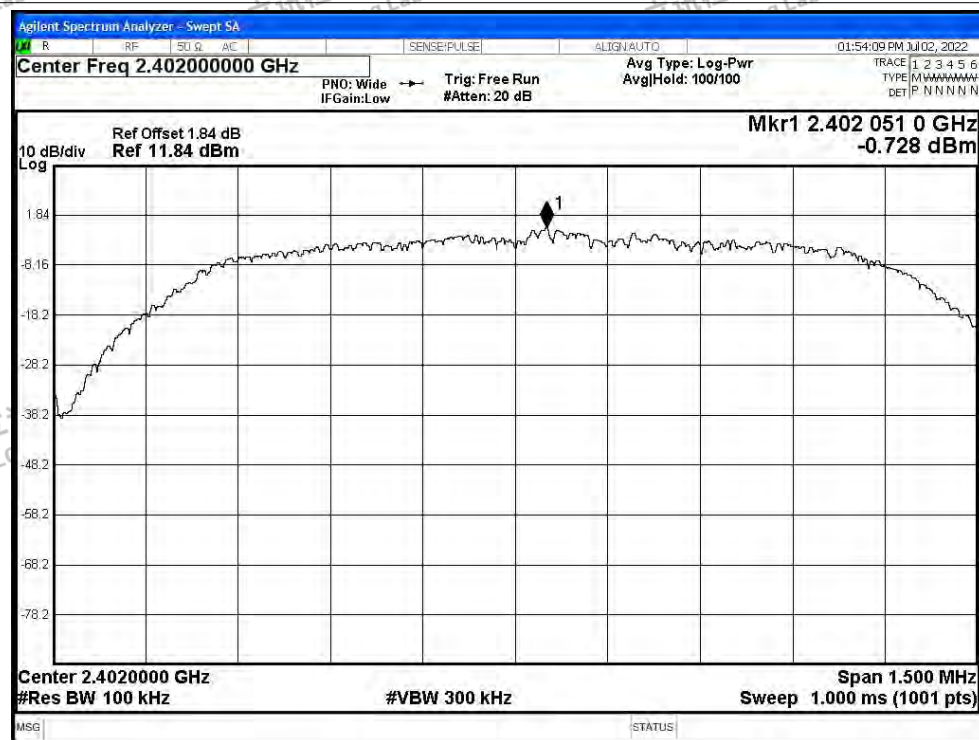
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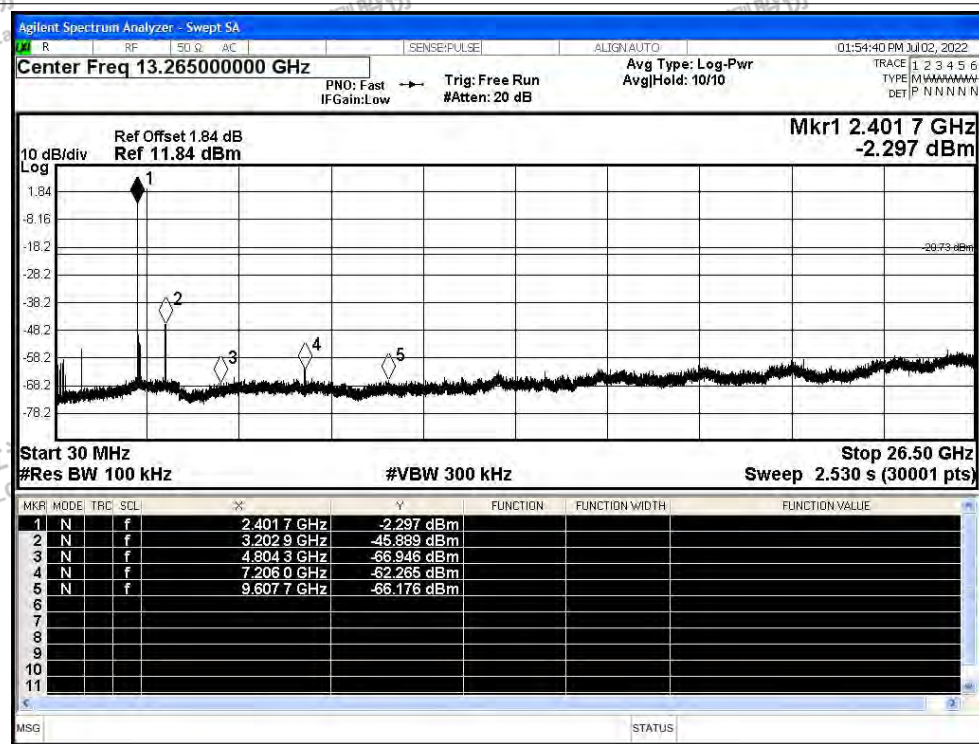
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

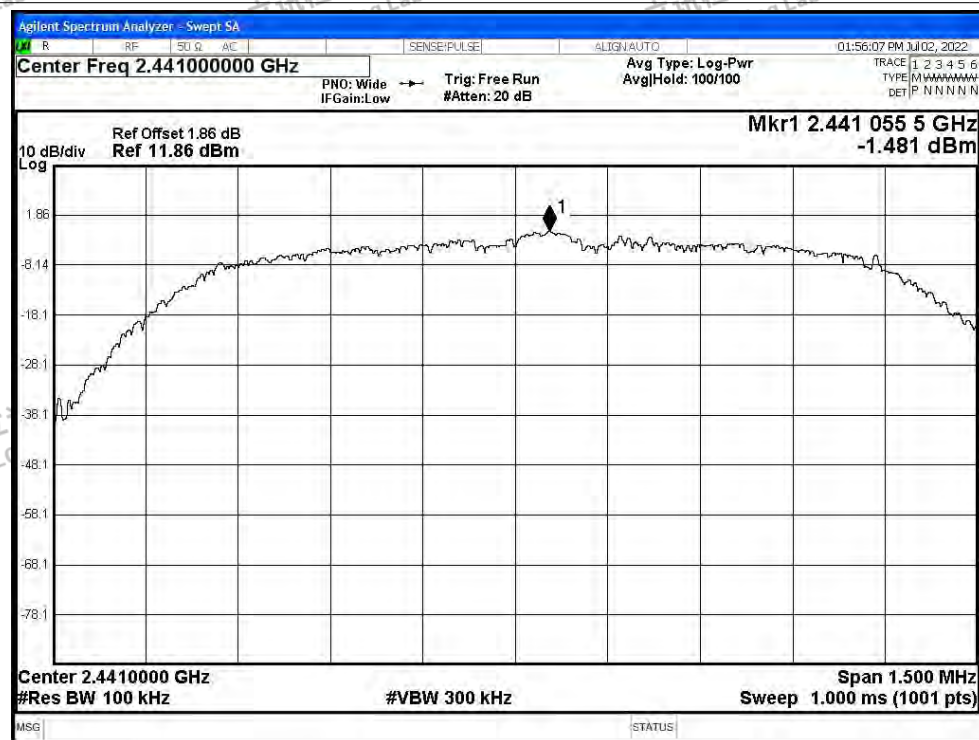
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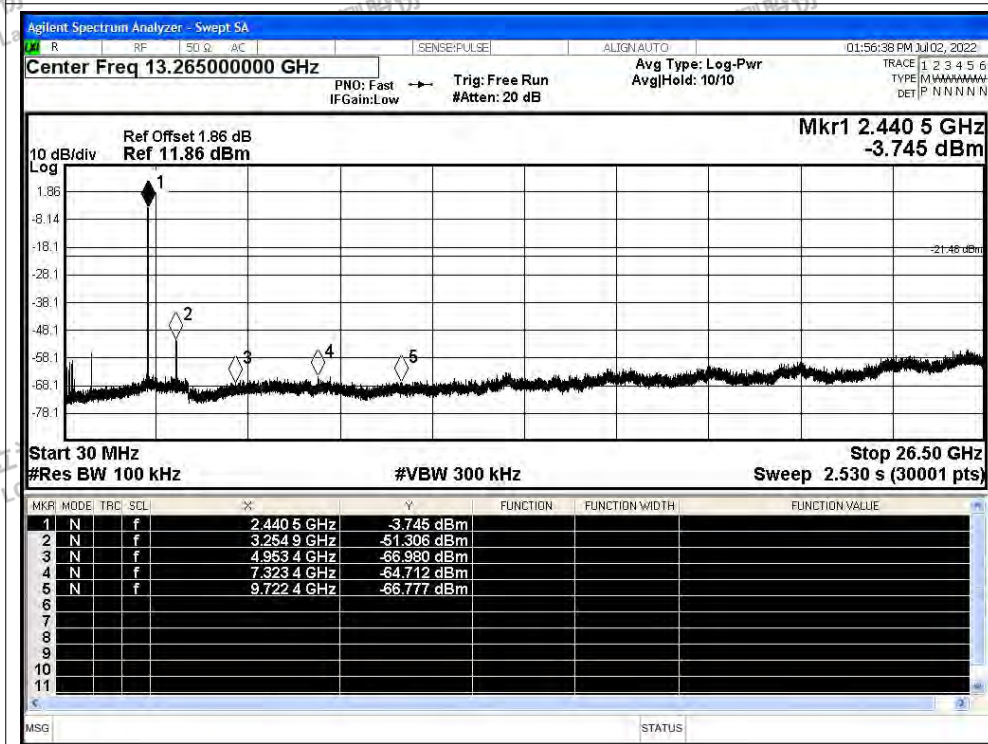
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

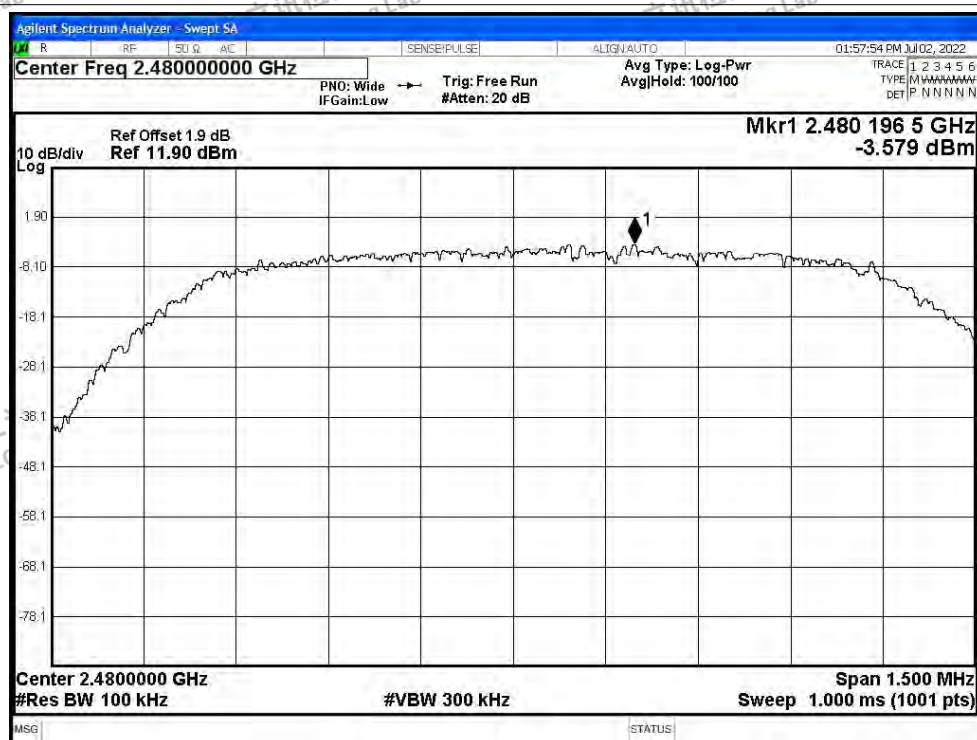
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

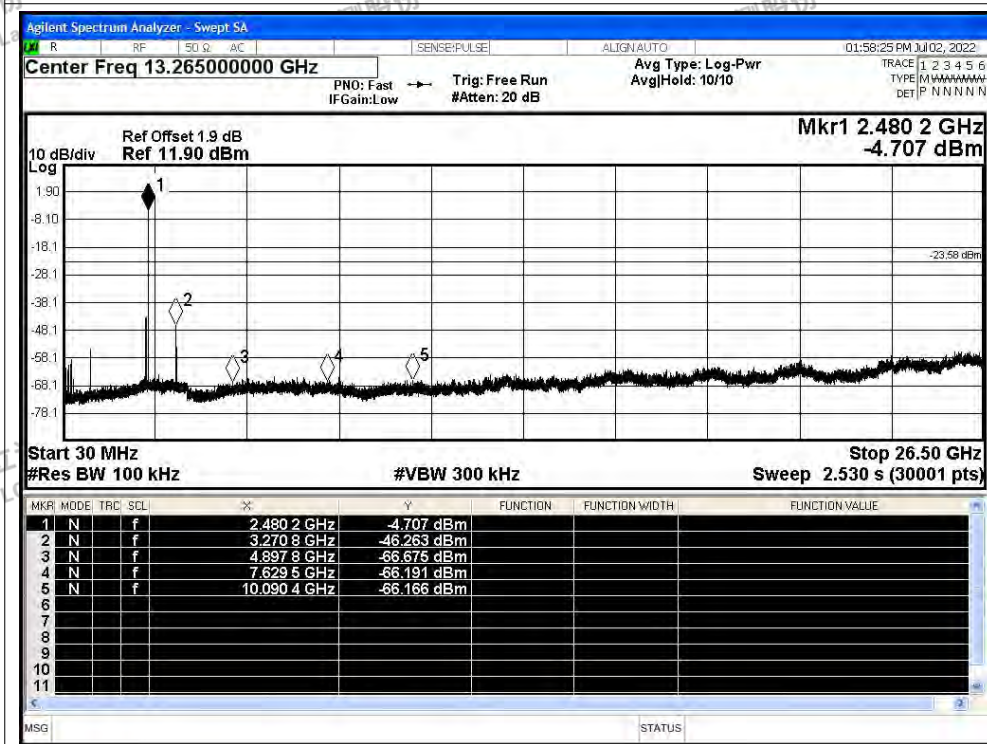
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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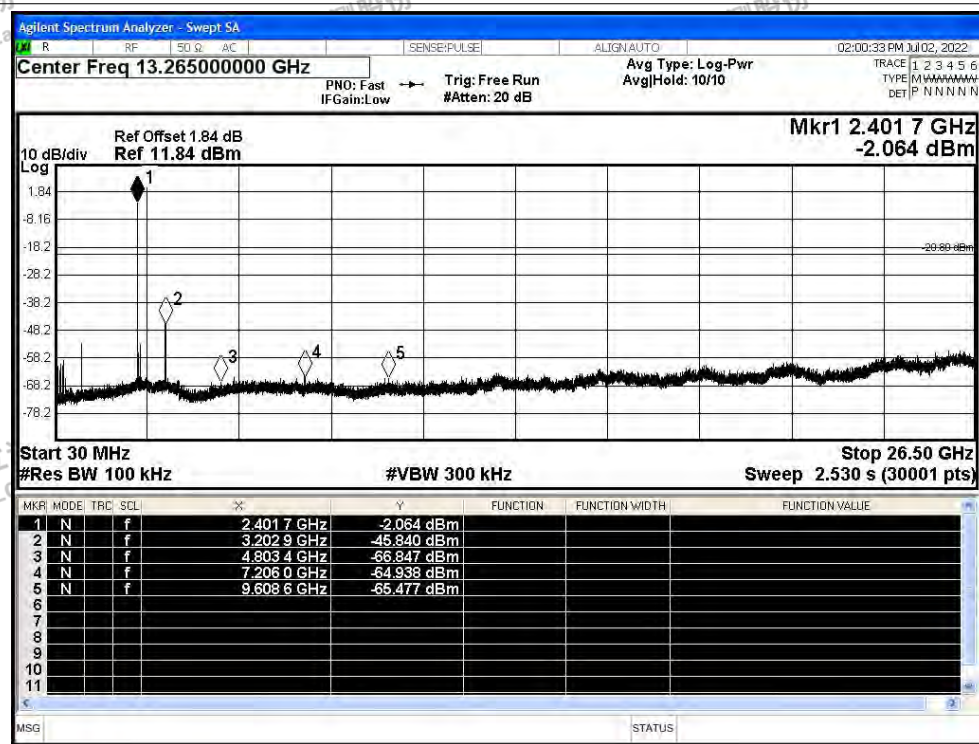
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



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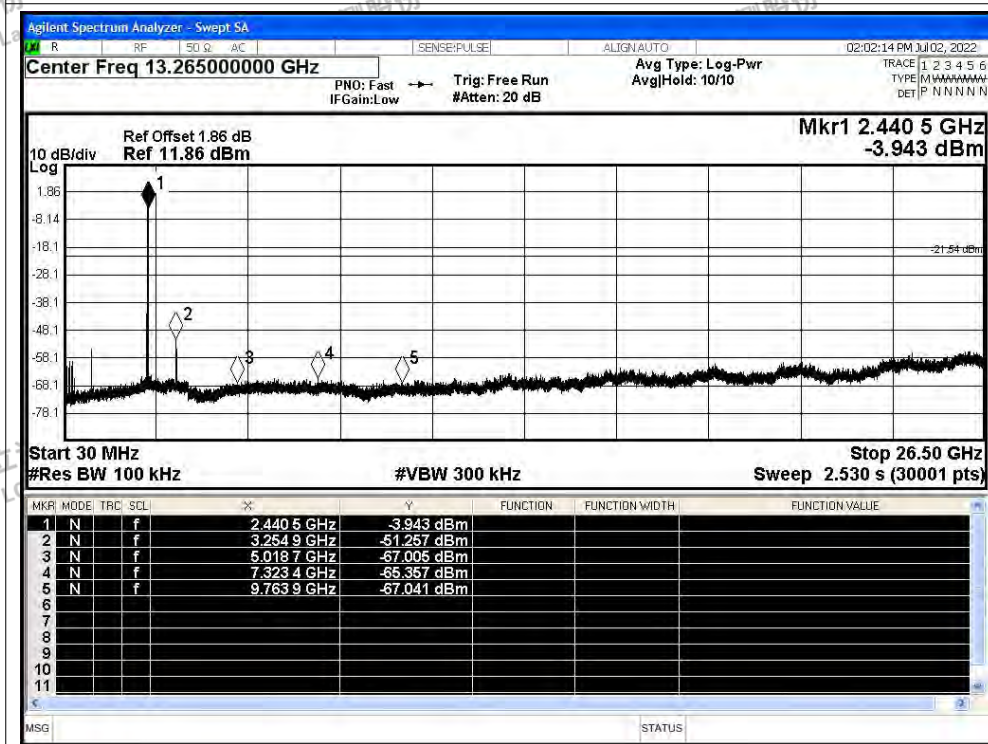
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

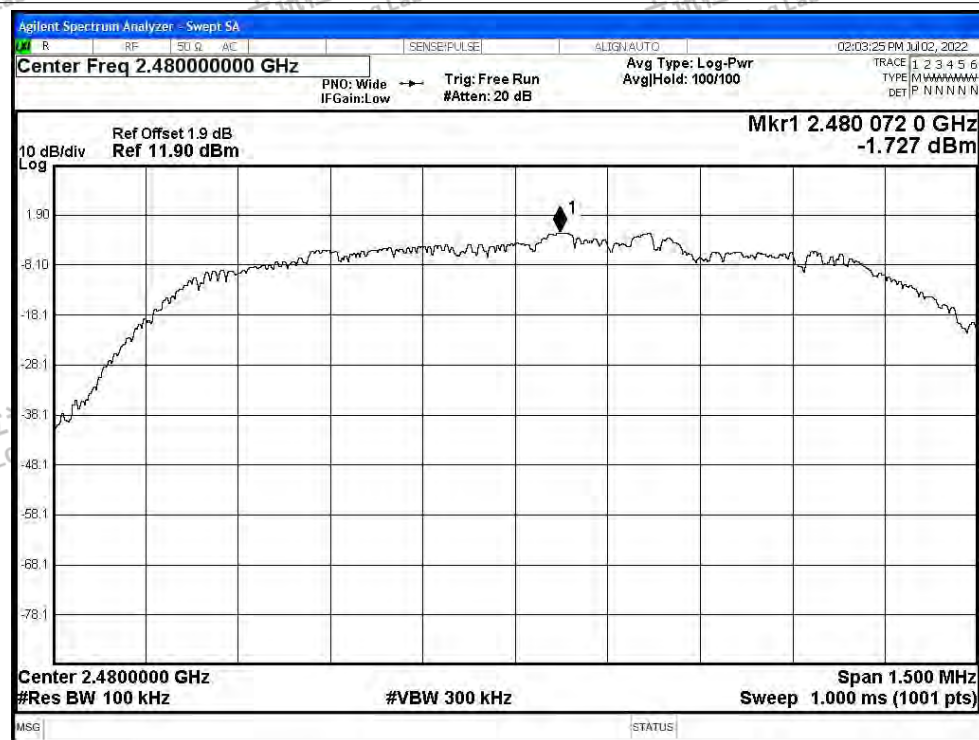
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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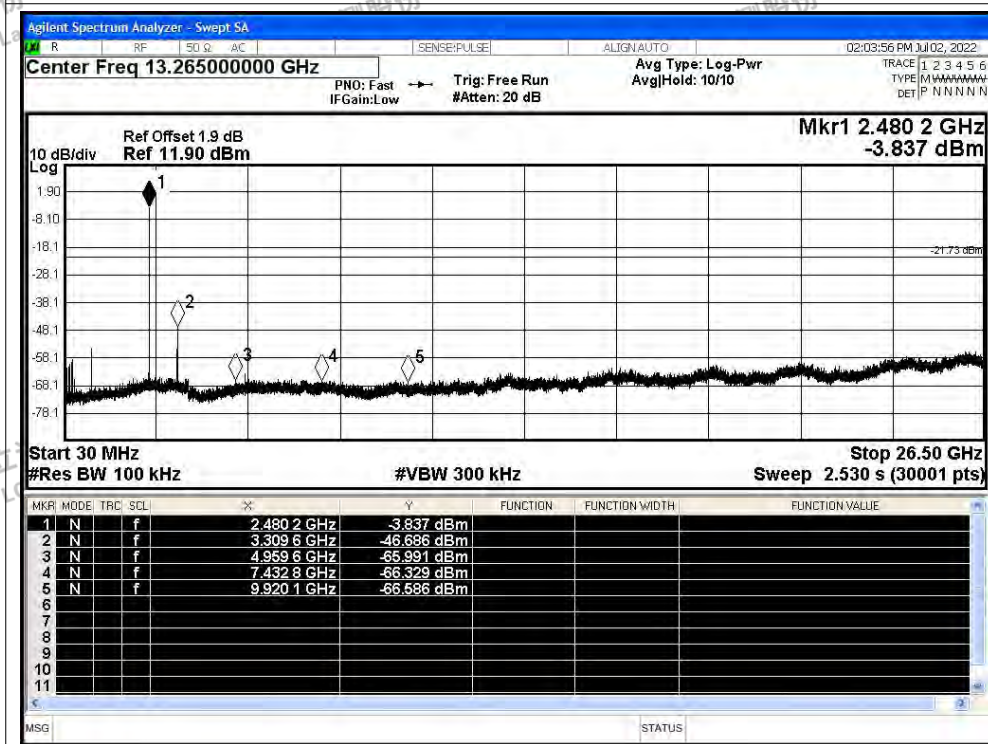
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-51.17	2	46.09	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.65	2	36.61	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2343.216	-47.04	2	50.22	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2365.104	-59.89	2	37.37	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.18	2	48.08	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.25	2	37.01	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.04	2	47.22	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.45	2	37.81	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.704	-46.67	2	50.59	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.536	-59.43	2	37.83	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.27	2	47.99	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.82	2	37.44	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.29	2	47.97	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.52	2	36.74	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2352.24	-47.88	2	49.38	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.856	-59.89	2	37.37	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.72	2	46.54	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	-50.27	2	46.99	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.37	2	37.89	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.632	-46.99	2	50.27	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.56	-59.31	2	37.95	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.07	2	47.19	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.86	2	37.4	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.67	2	46.59	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.47	2	36.79	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2340.048	-48.37	2	48.89	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2362.224	-59.89	2	37.37	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.85	2	46.41	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-59.99	2	37.27	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.81	2	47.45	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.49	2	37.77	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.544	-46.05	2	51.21	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.704	-59.4	2	37.86	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.39	2	46.87	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.78	2	37.48	Average	54	Pass



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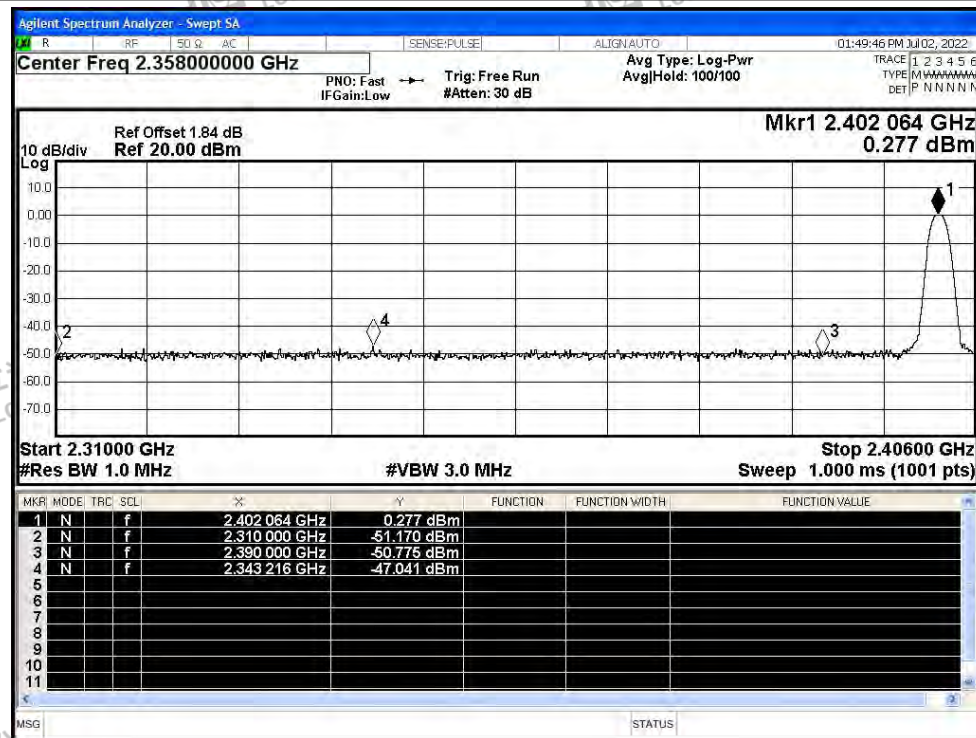
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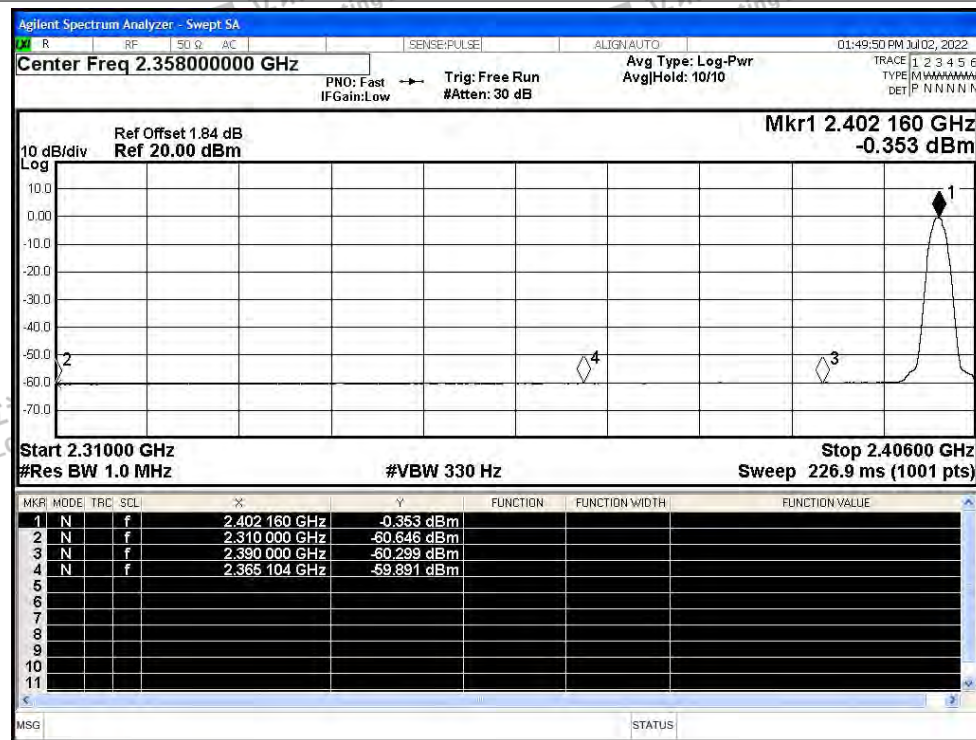


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

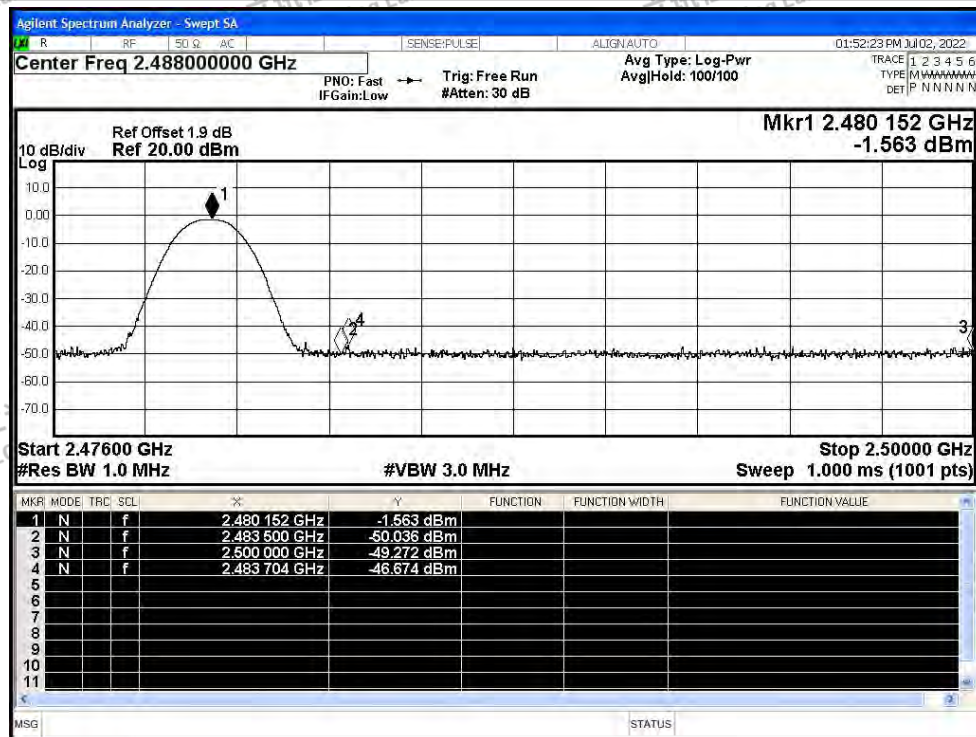
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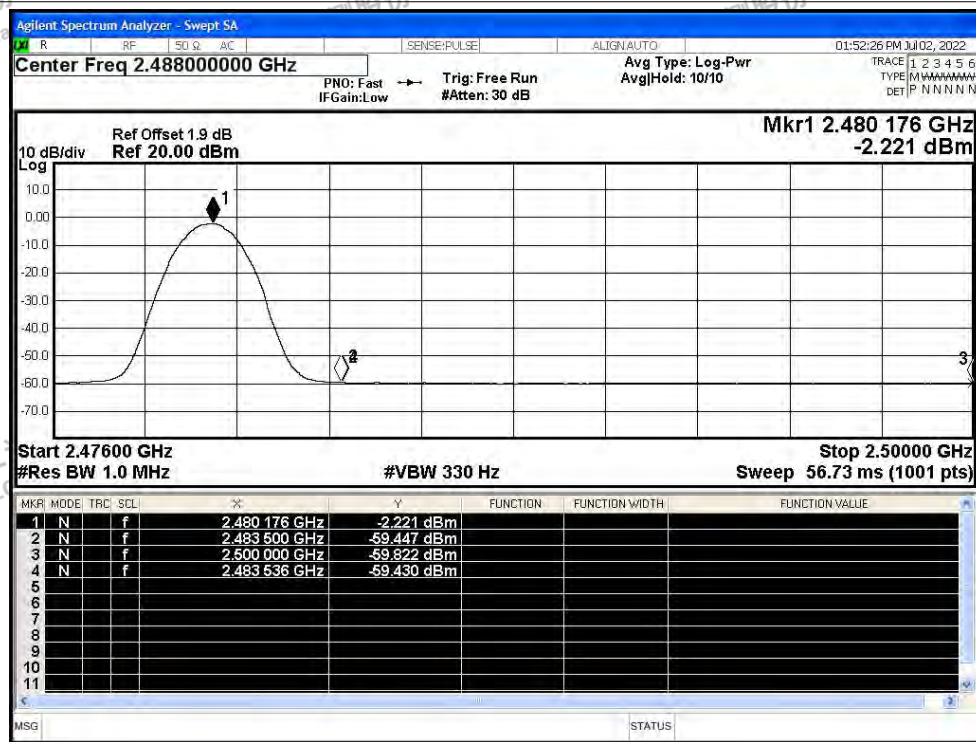
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

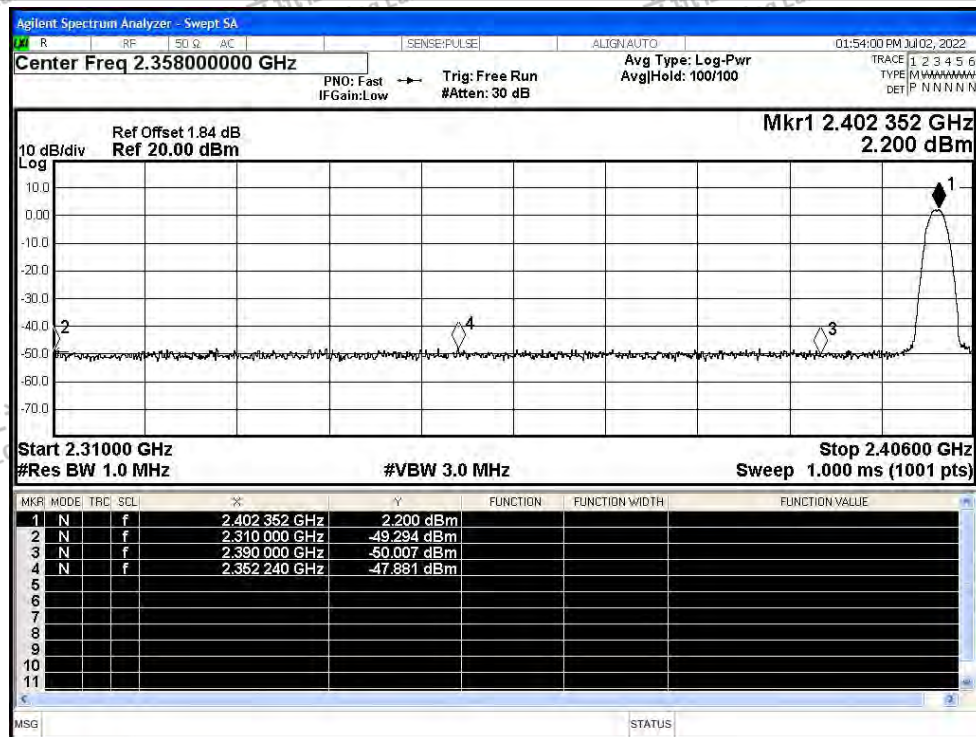


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

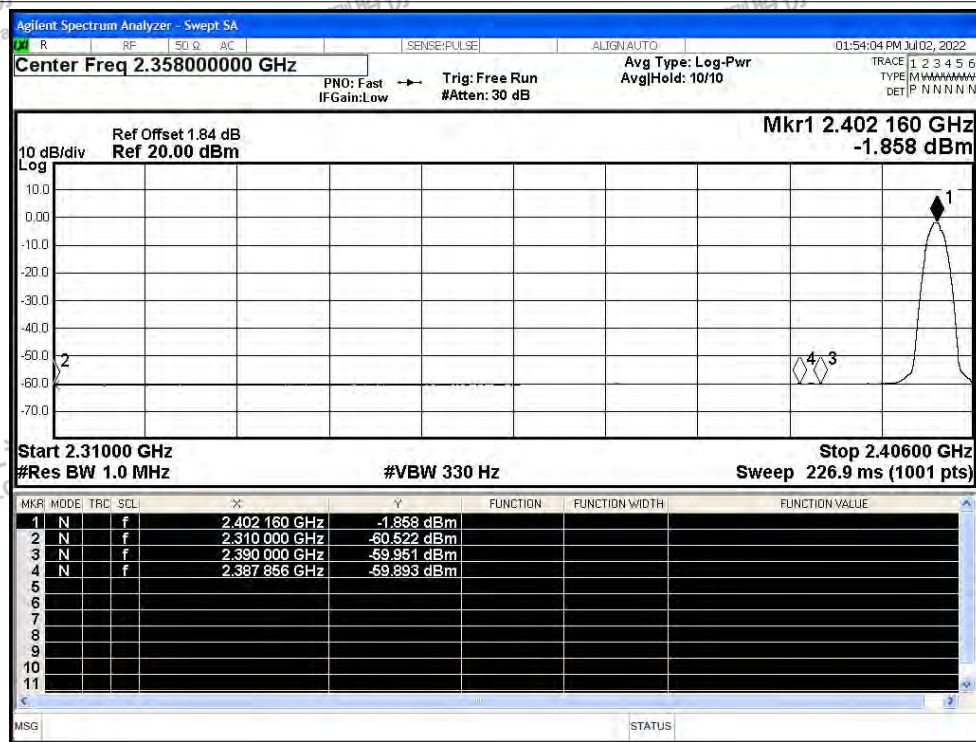




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

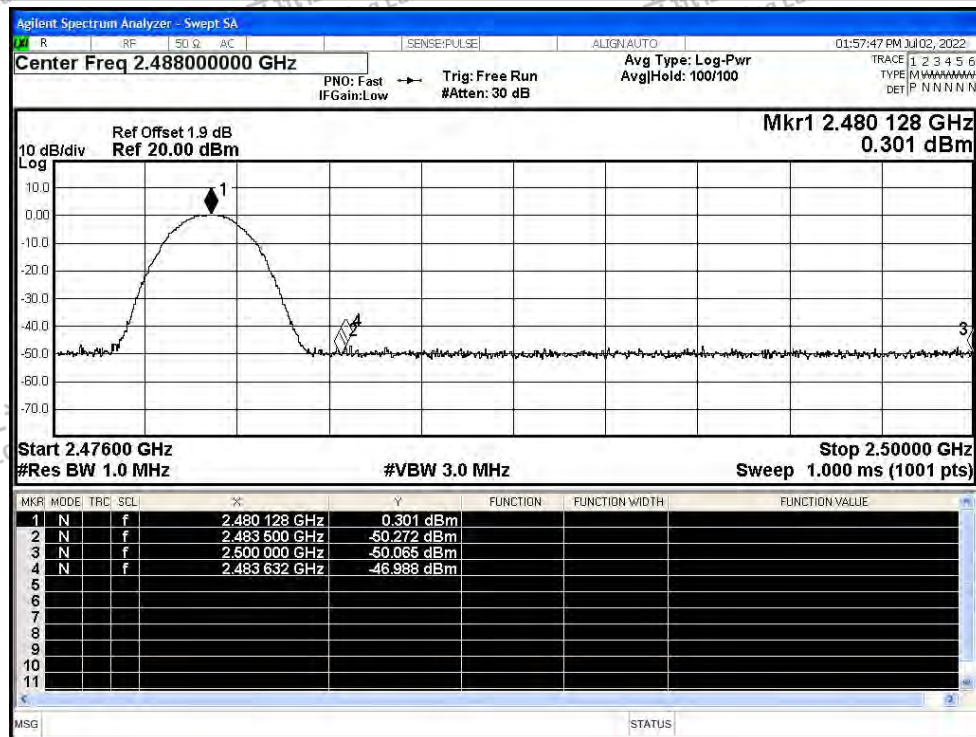
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

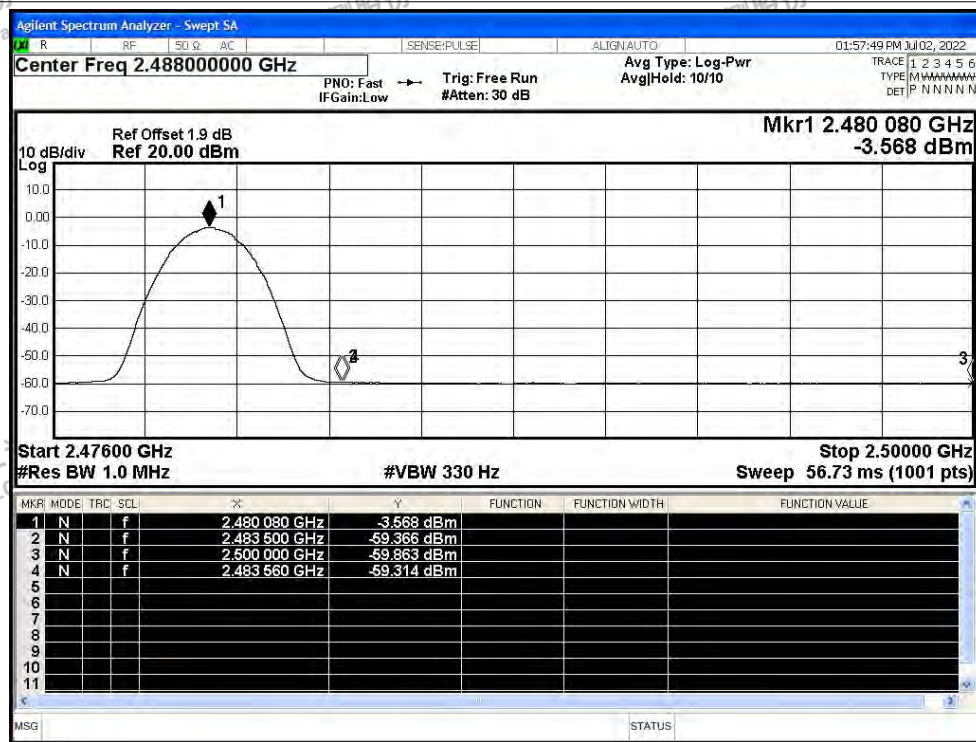
Scan code to check authenticity



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.

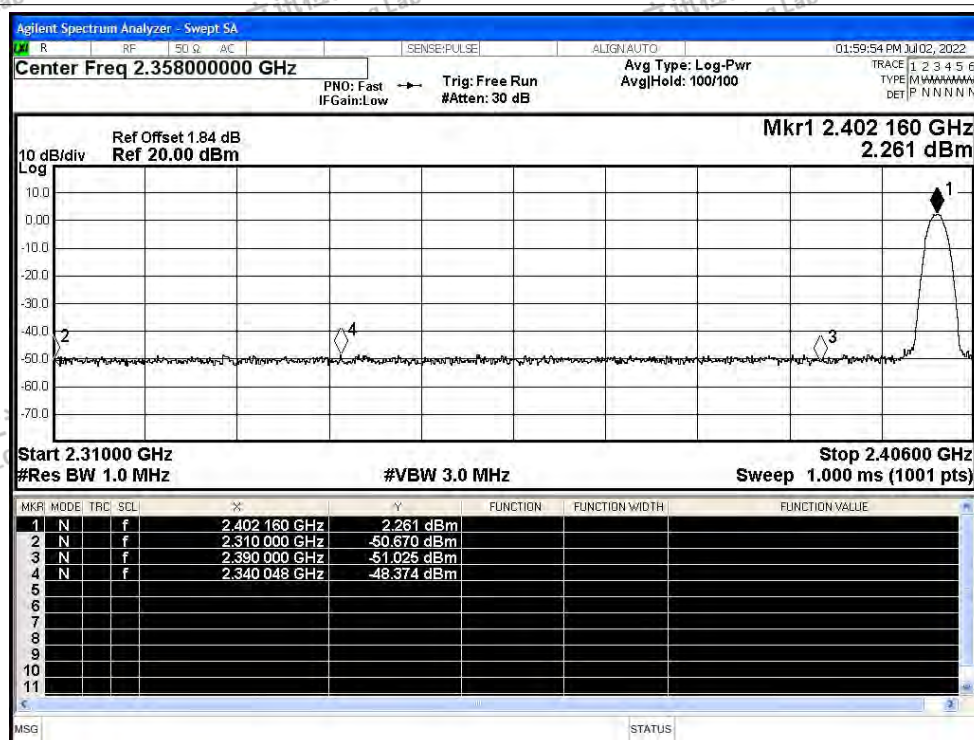
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

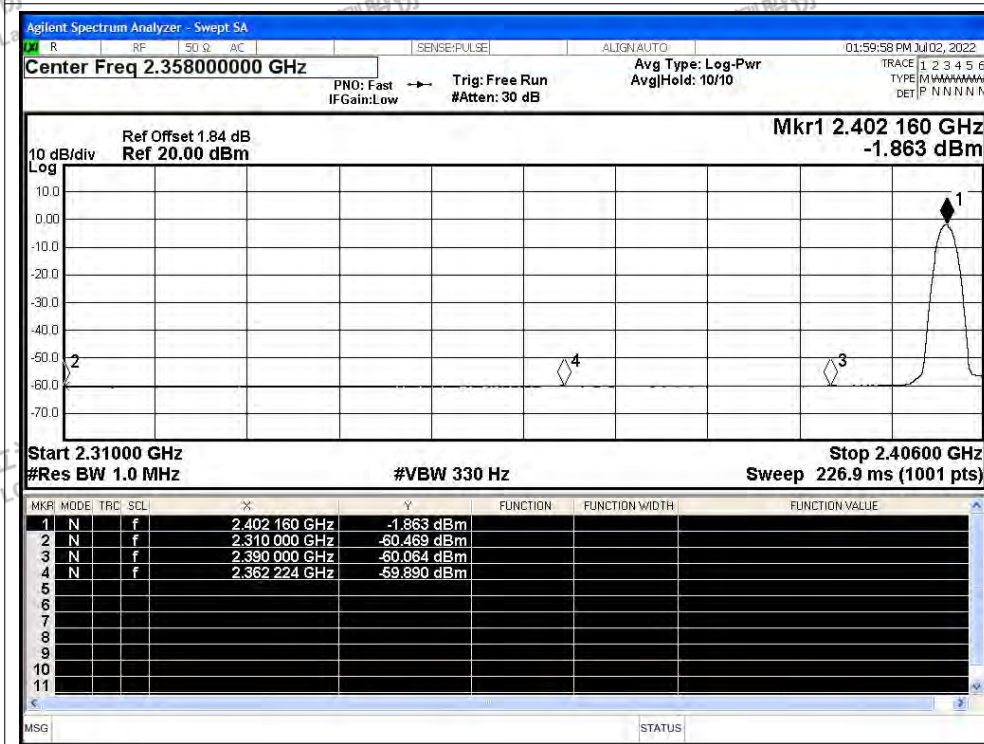
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

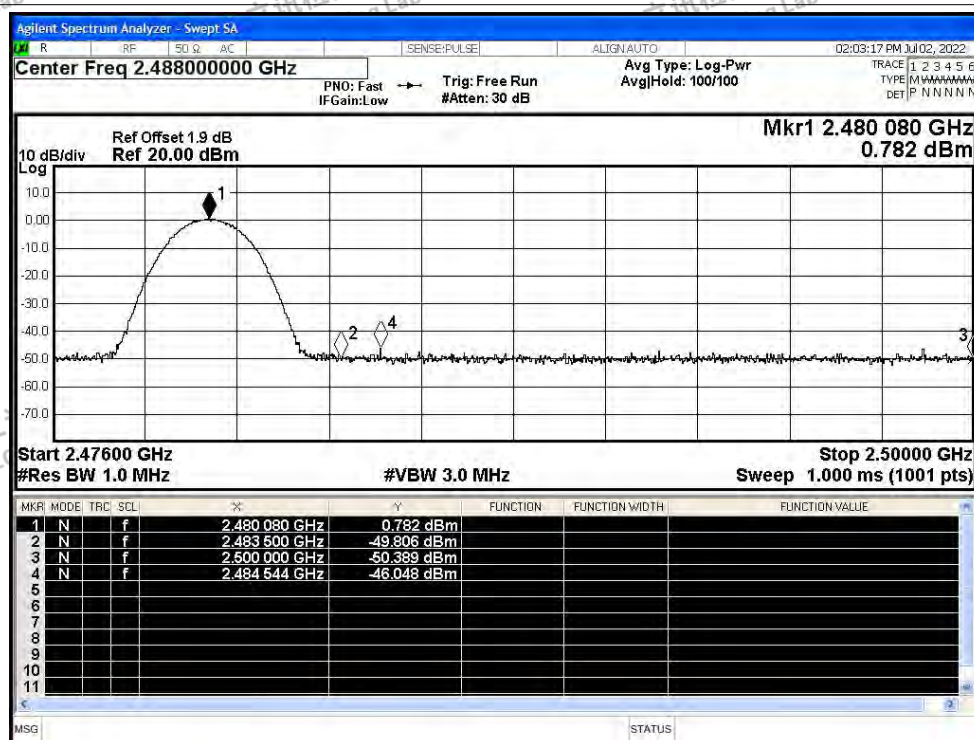
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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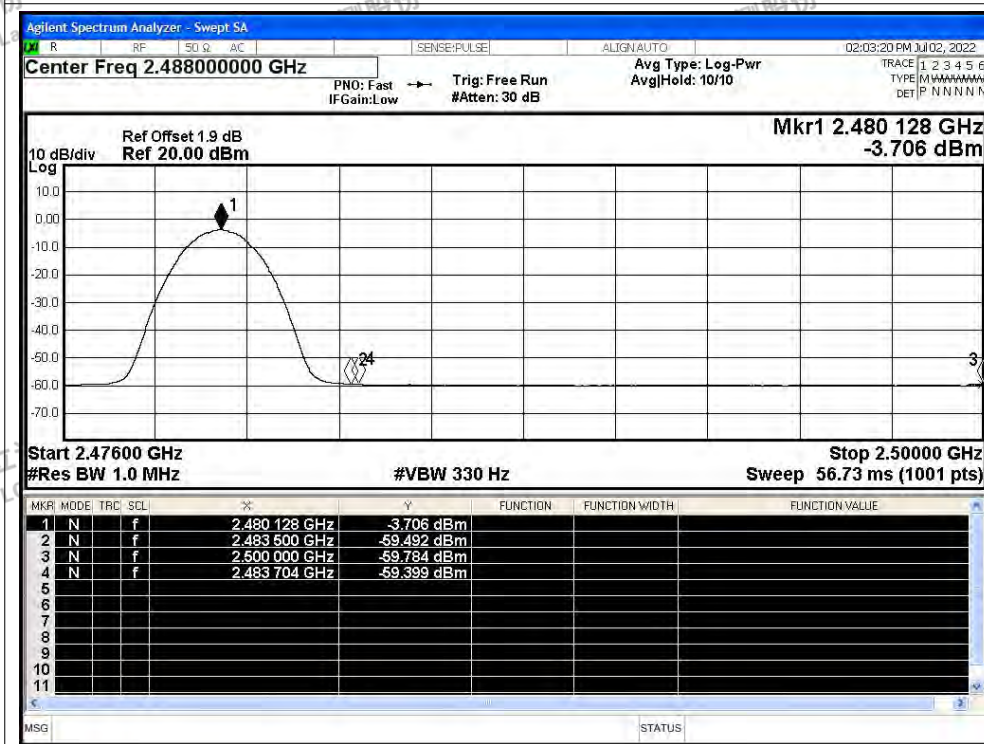
Scan code to check authenticity



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



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



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