



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Soundbar

Test Model: S28CS

Environmental Conditions

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

A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.943	0	Pass
NVNT	1-DH5	2441	Ant1	0.944	0	Pass
NVNT	1-DH5	2480	Ant1	0.949	0	Pass
NVNT	2-DH5	2402	Ant1	1.321	0	Pass
NVNT	2-DH5	2441	Ant1	1.322	0	Pass
NVNT	2-DH5	2480	Ant1	1.302	0	Pass
NVNT	3-DH5	2402	Ant1	1.285	0	Pass
NVNT	3-DH5	2441	Ant1	1.282	0	Pass
NVNT	3-DH5	2480	Ant1	1.3	0	Pass



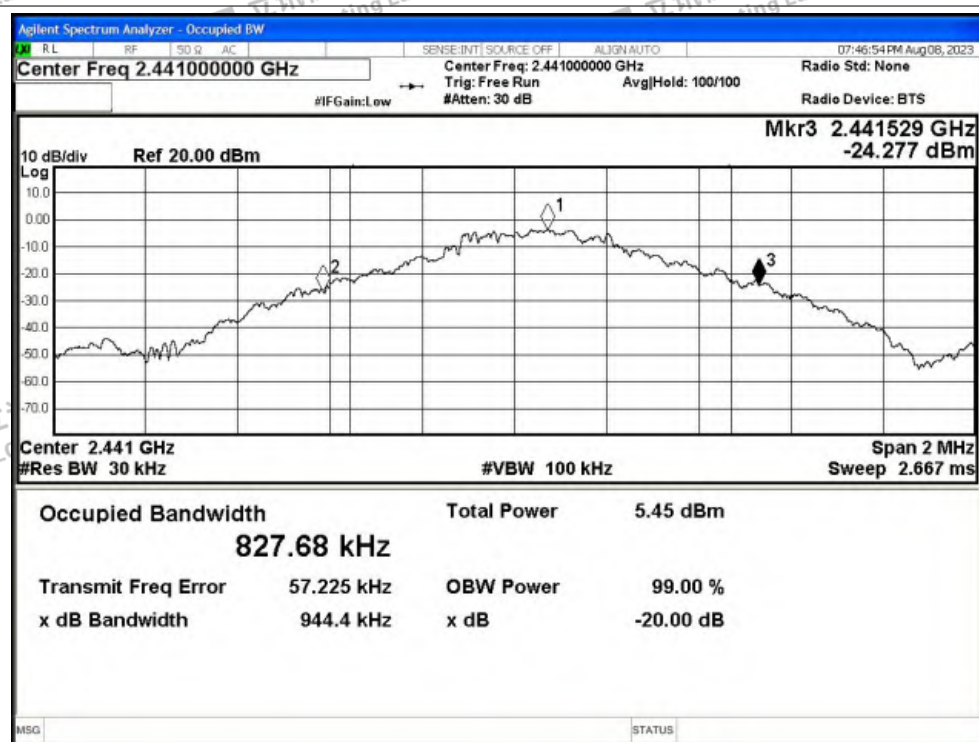


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

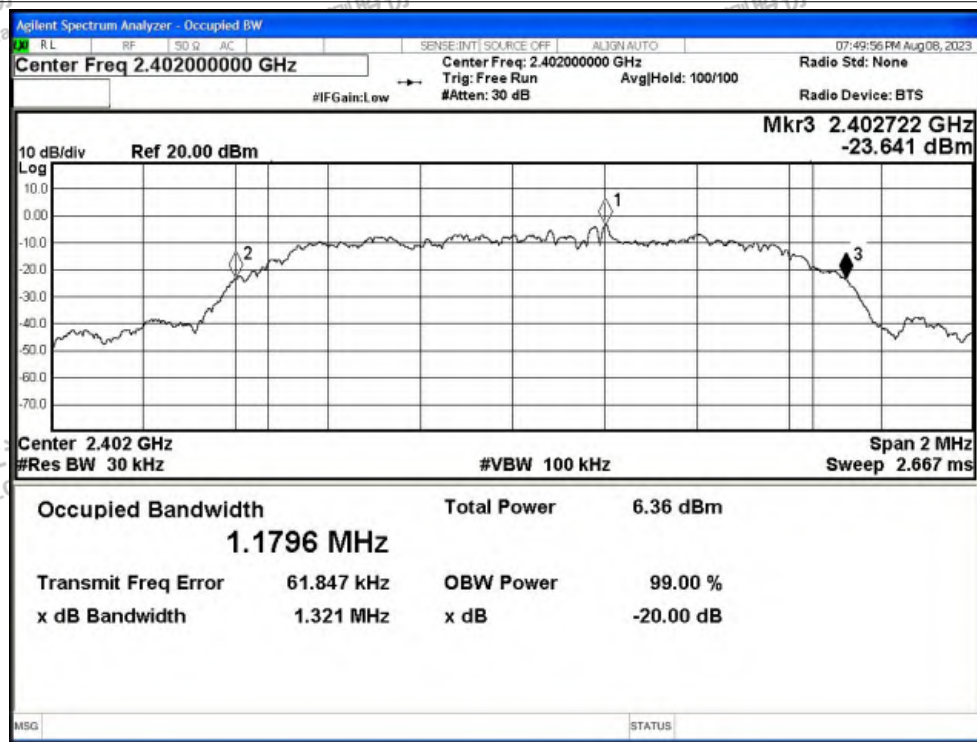




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

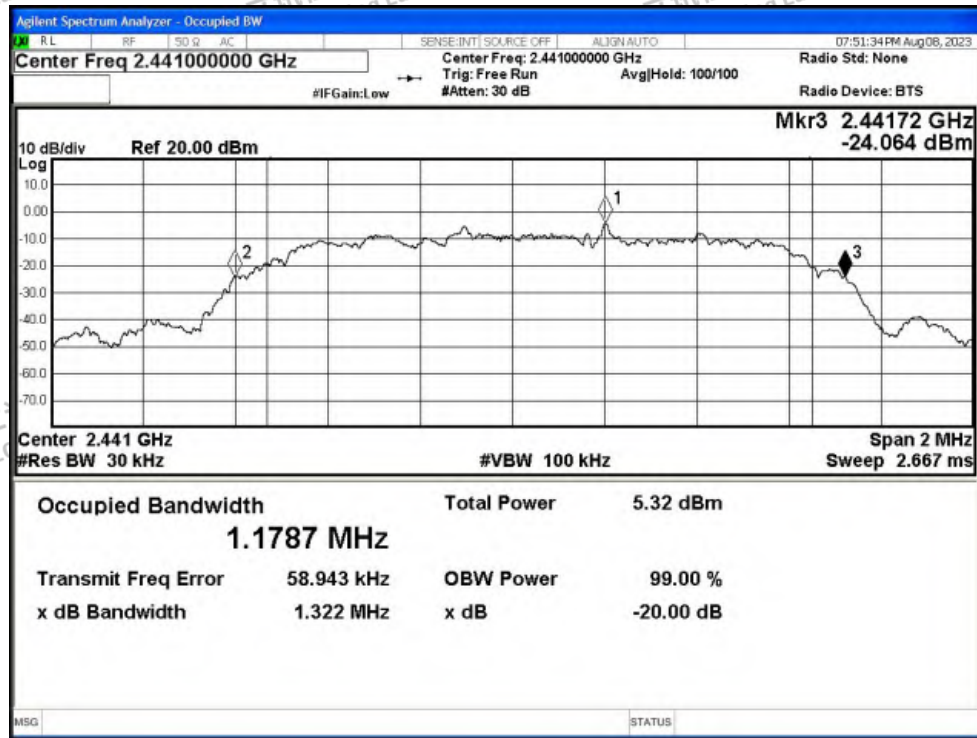


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

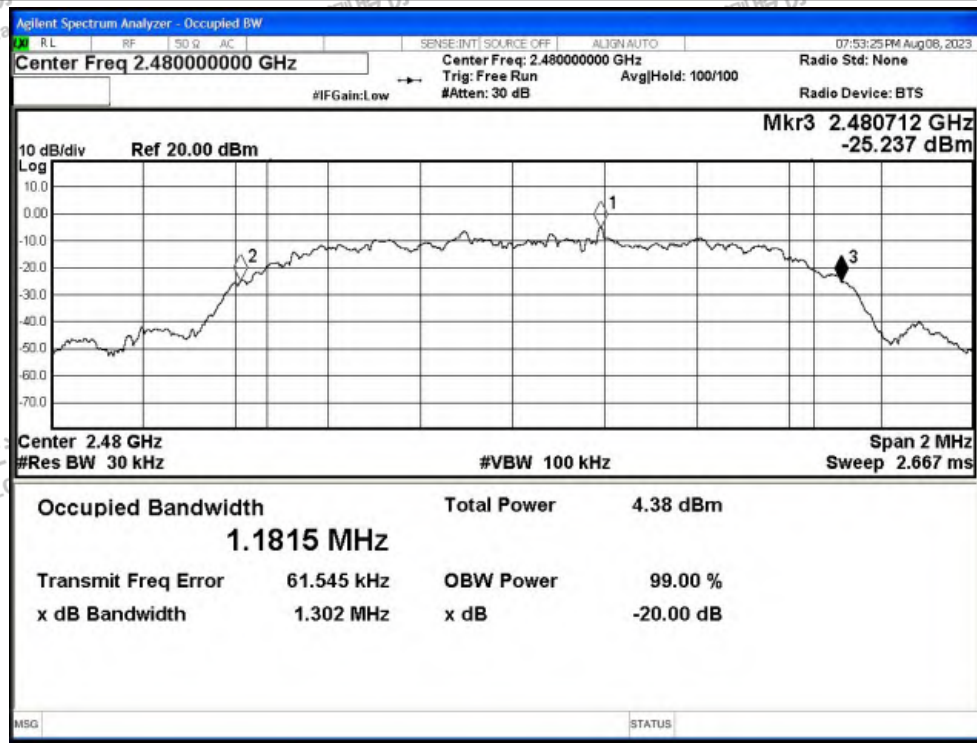




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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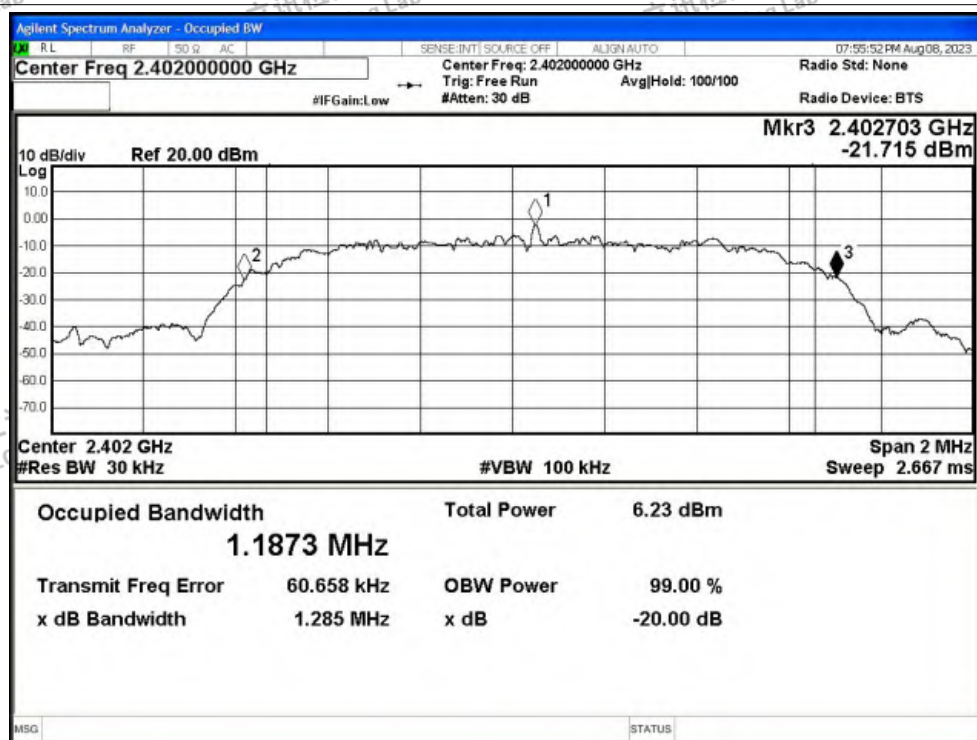
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

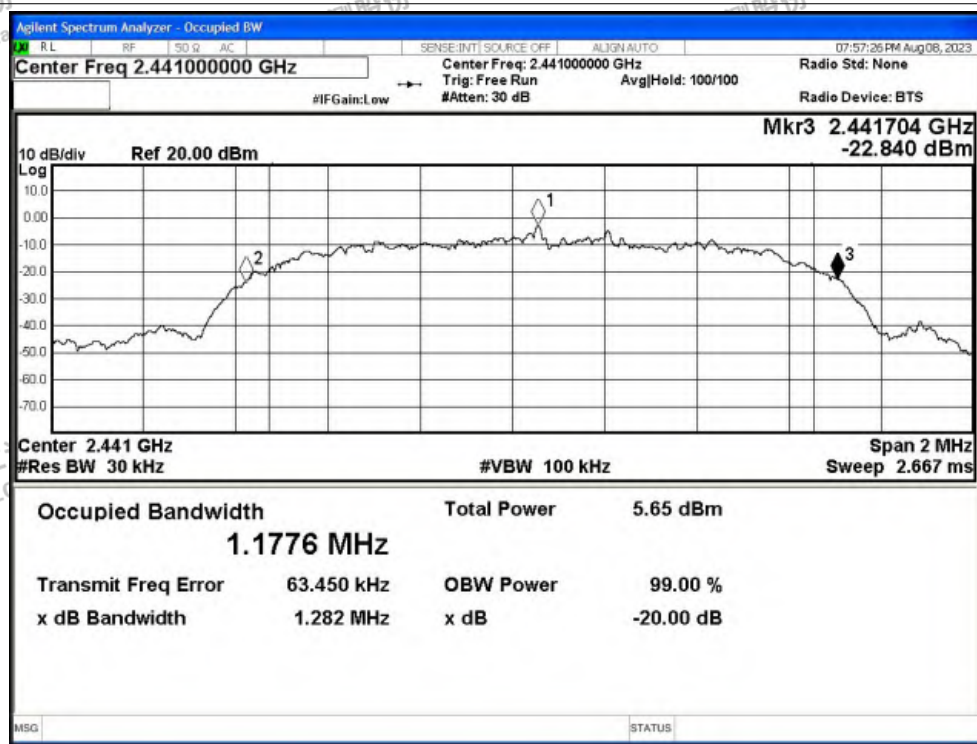
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



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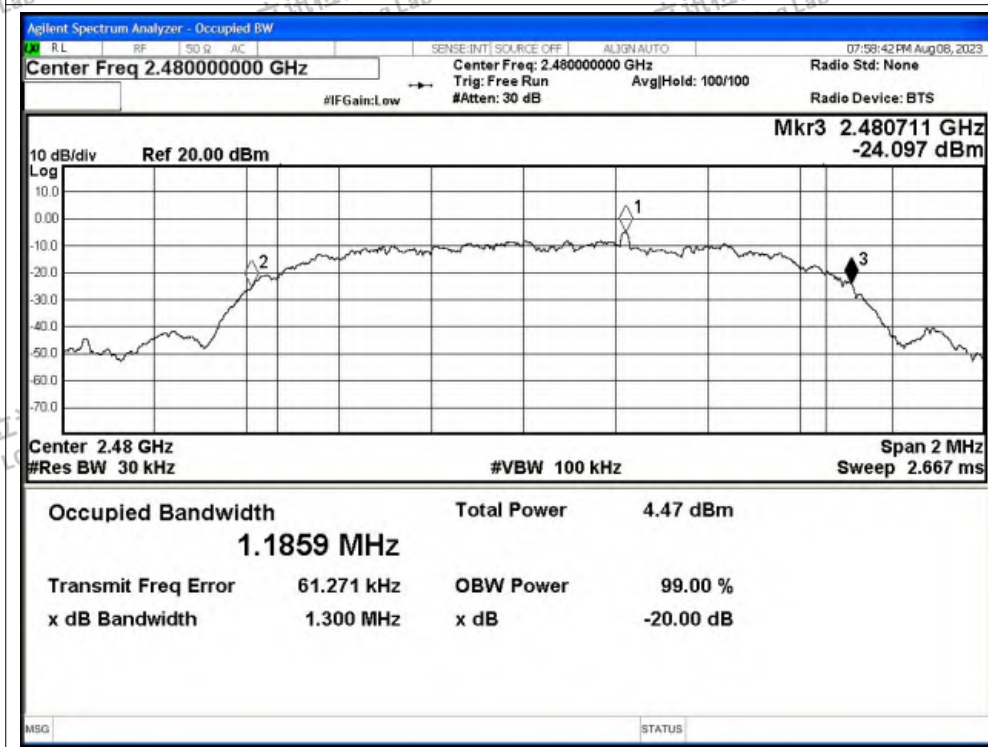
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



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A.2 Maximum Conducted Output Power

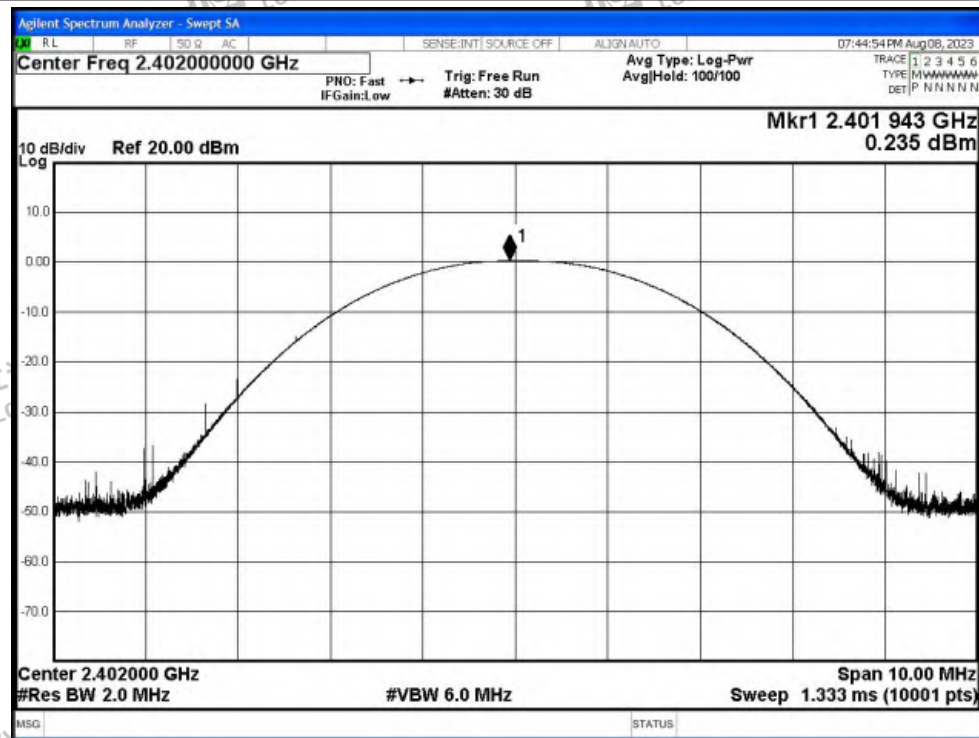
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.24	21	Pass
NVNT	1-DH5	2441	Ant1	-0.74	21	Pass
NVNT	1-DH5	2480	Ant1	-1.81	21	Pass
NVNT	2-DH5	2402	Ant1	2.78	21	Pass
NVNT	2-DH5	2441	Ant1	1.74	21	Pass
NVNT	2-DH5	2480	Ant1	0.58	21	Pass
NVNT	3-DH5	2402	Ant1	3.36	21	Pass
NVNT	3-DH5	2441	Ant1	2.29	21	Pass
NVNT	3-DH5	2480	Ant1	1.11	21	Pass



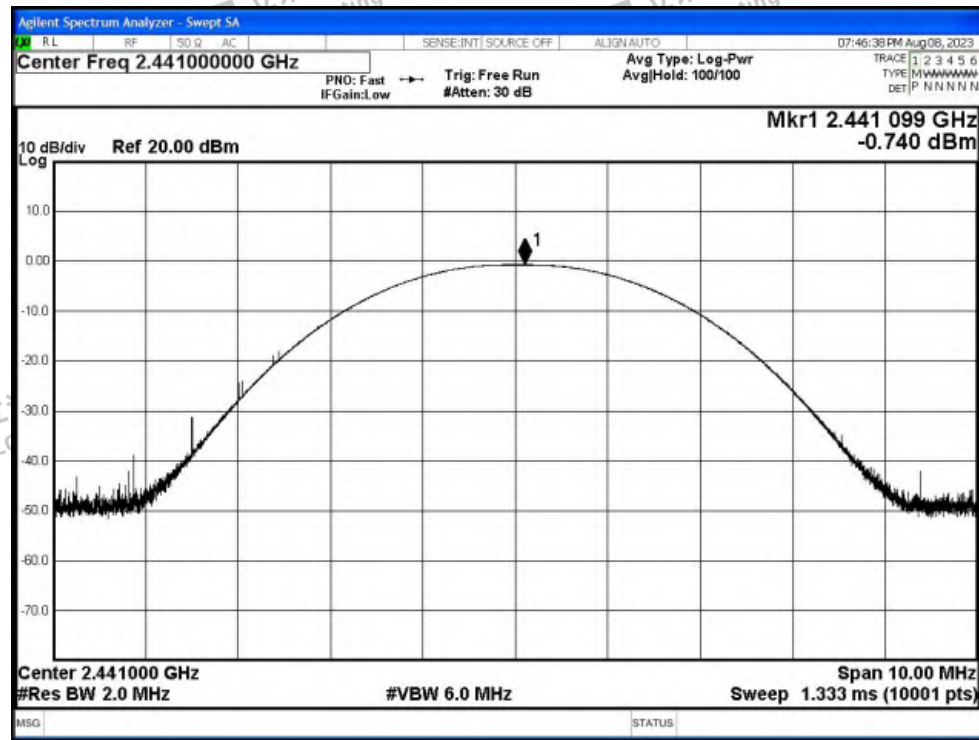


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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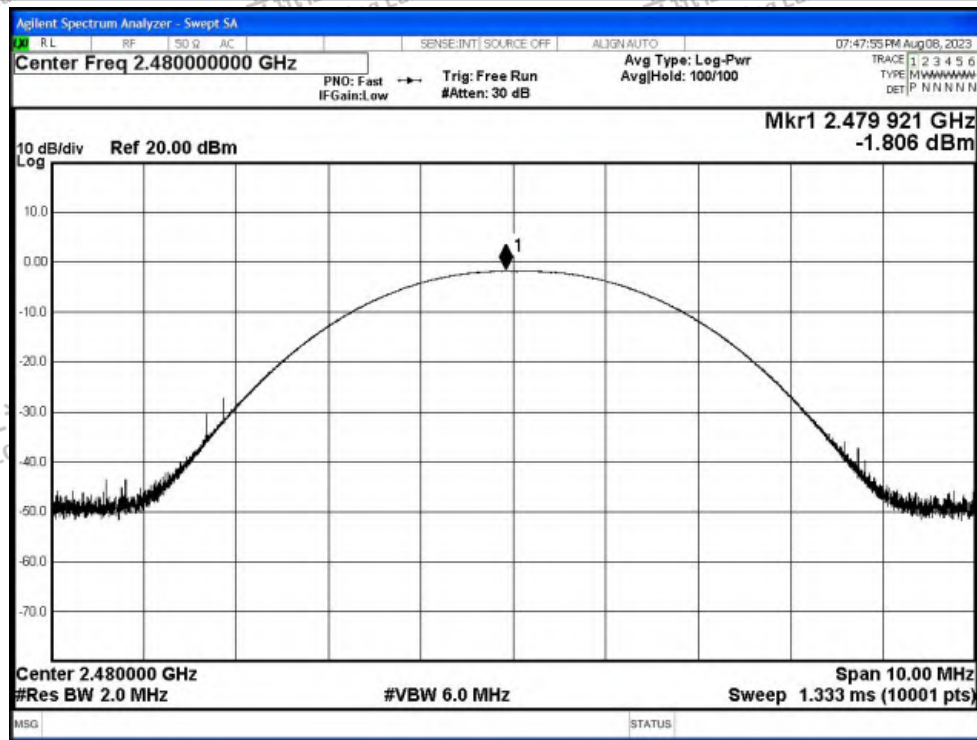
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

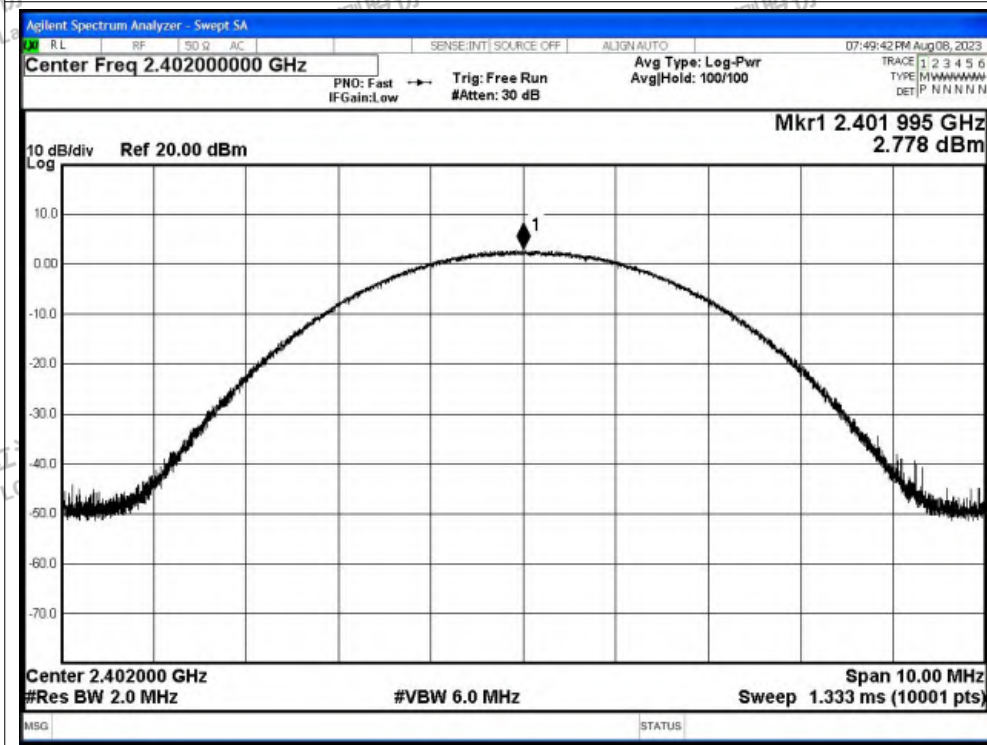
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Power NVNT 1-DH5 2480MHz Ant1

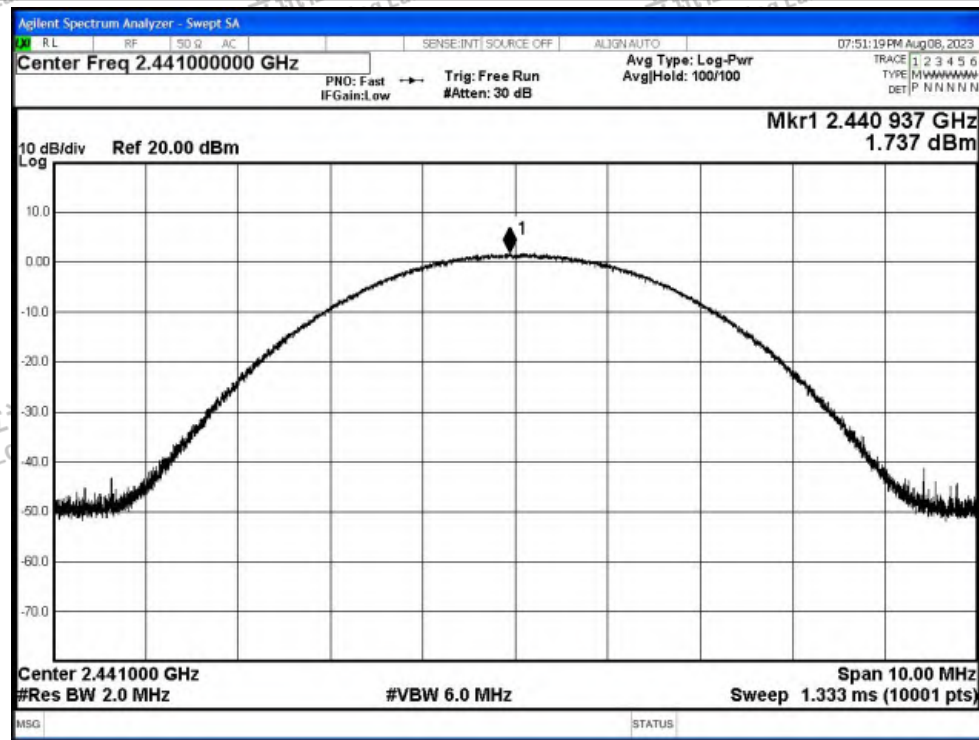


Power NVNT 2-DH5 2402MHz Ant1

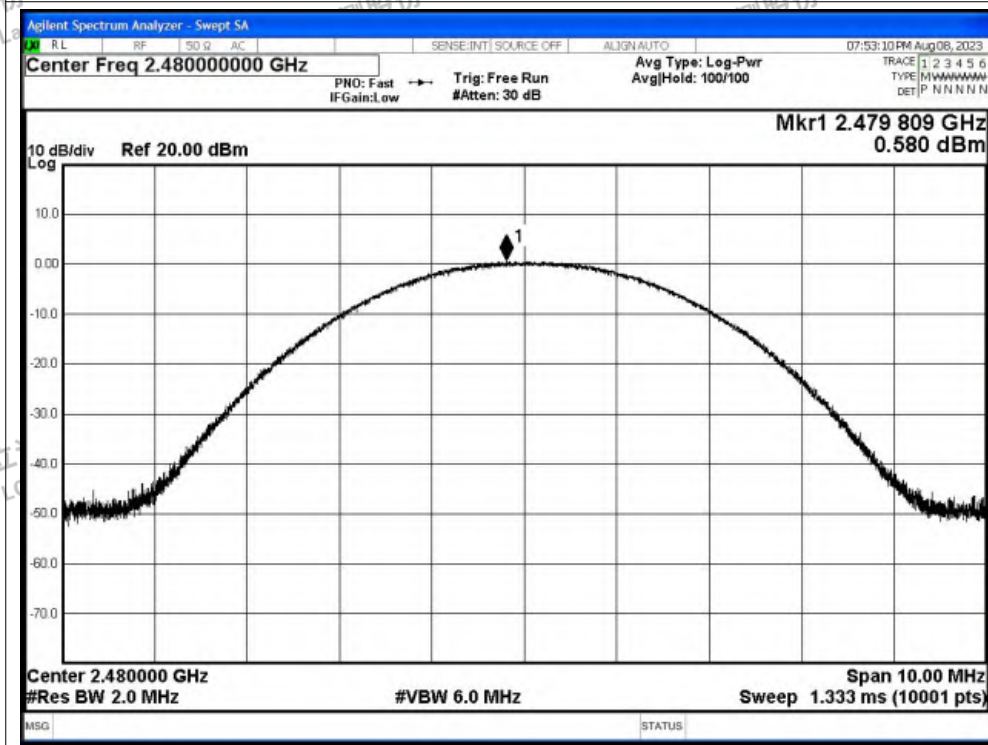




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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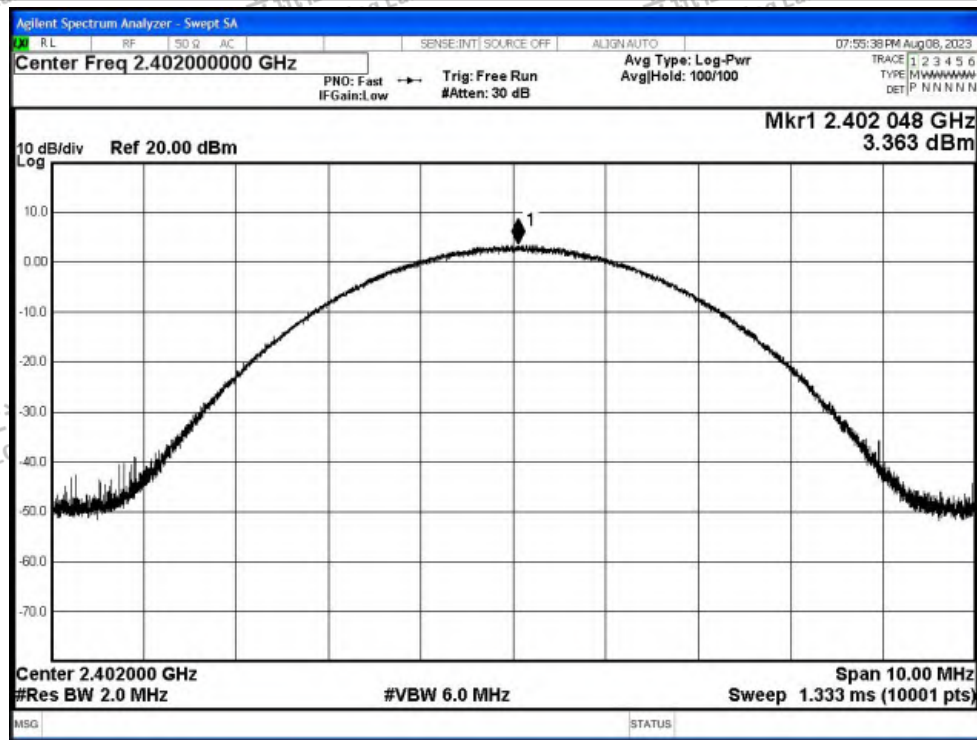
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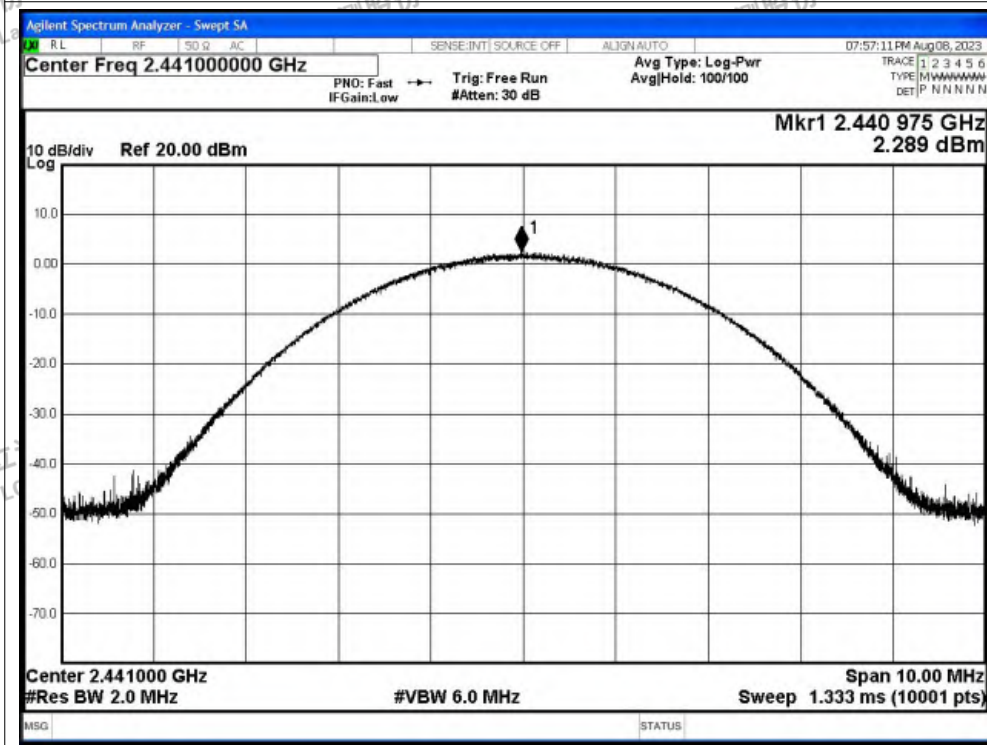
Scan code to check authenticity



Power NVNT 3-DH5 2402MHz Ant1

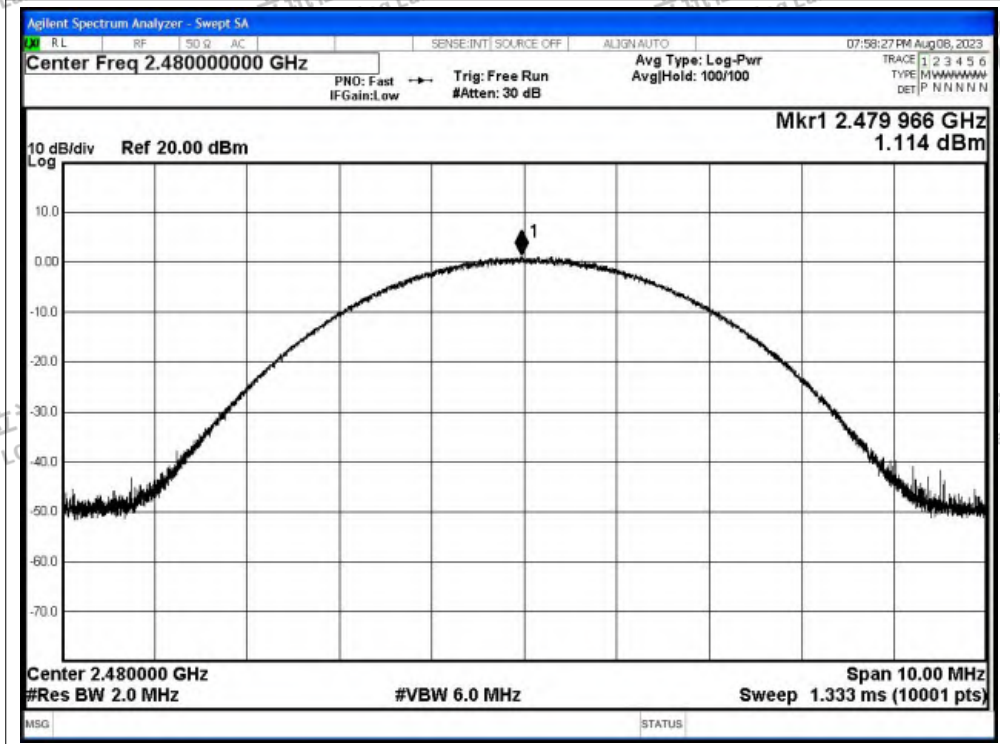


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-DH5 2480MHz 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	2402.078	2403.034	0.956	0.633	Pass
NVNT	2-DH5	Ant1	2401.9	2402.9	1	0.881	Pass
NVNT	3-DH5	Ant1	2402.078	2403.006	0.928	0.867	Pass



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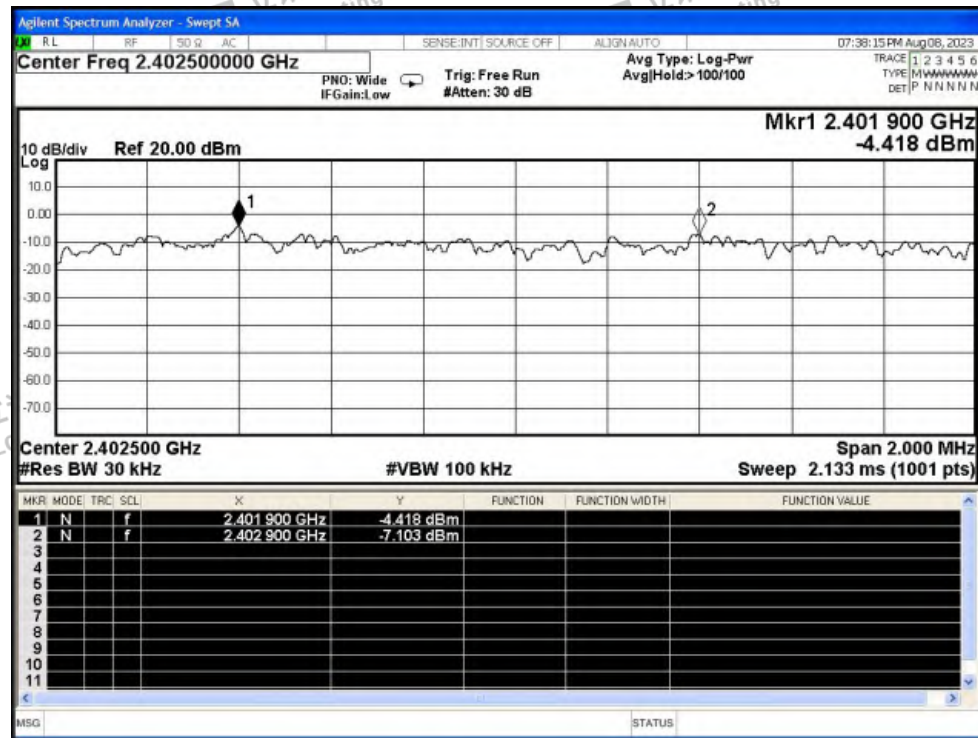


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



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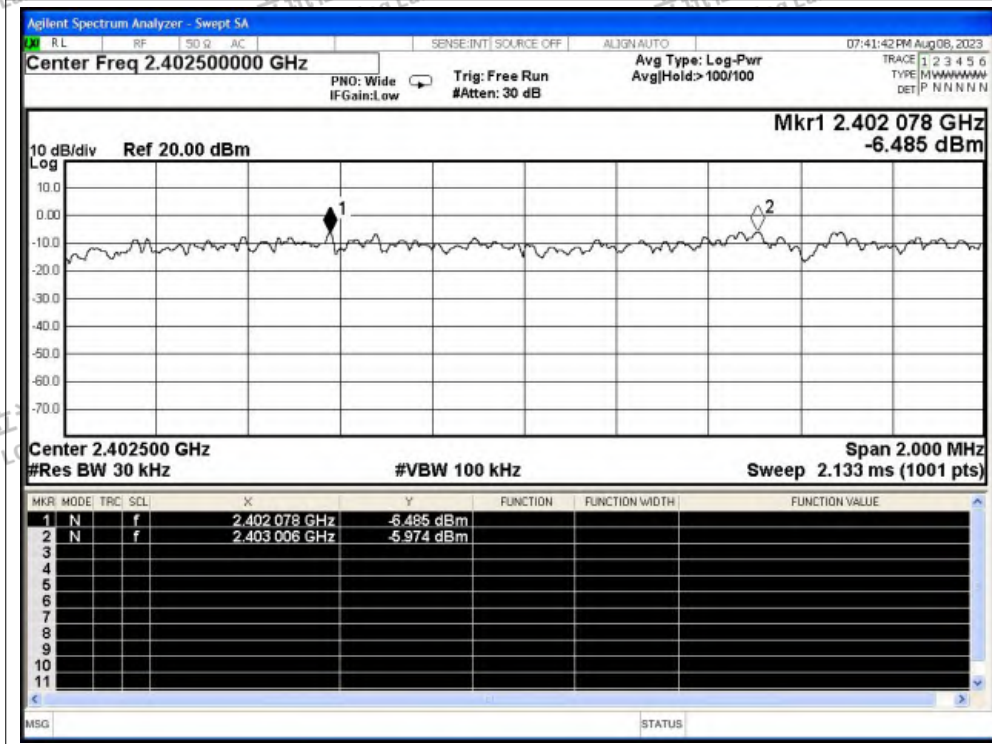
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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CFS NVNT 3-DH5 2402MHz Ant1



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A.4 Dwell Time

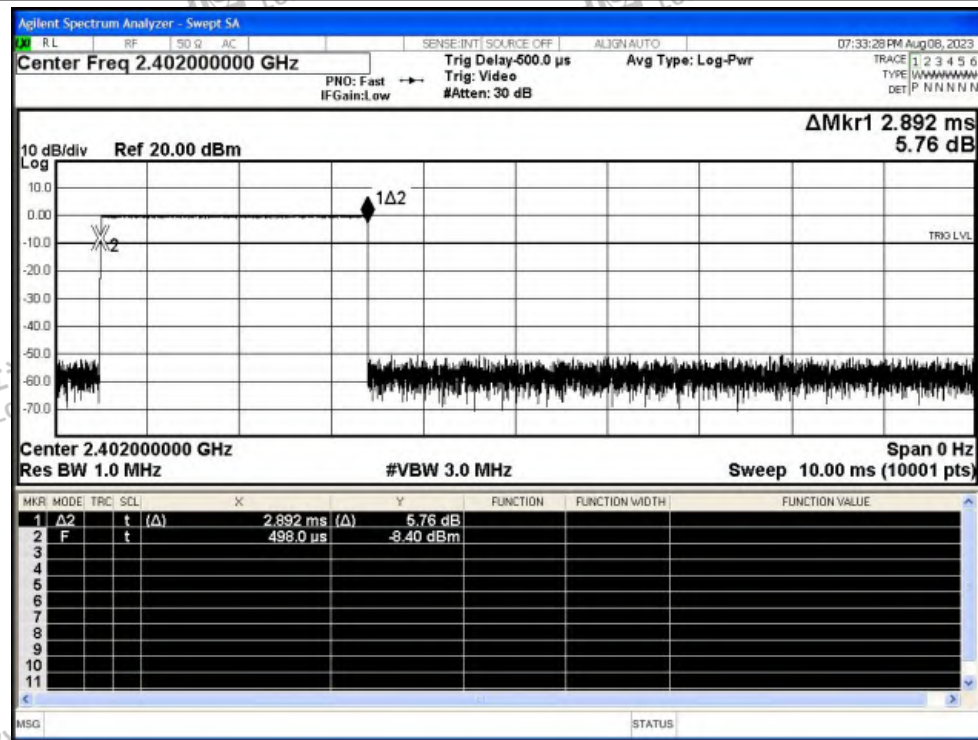
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.892	309.444	107	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.892	329.688	114	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.895	303.975	105	31600	400	Pass



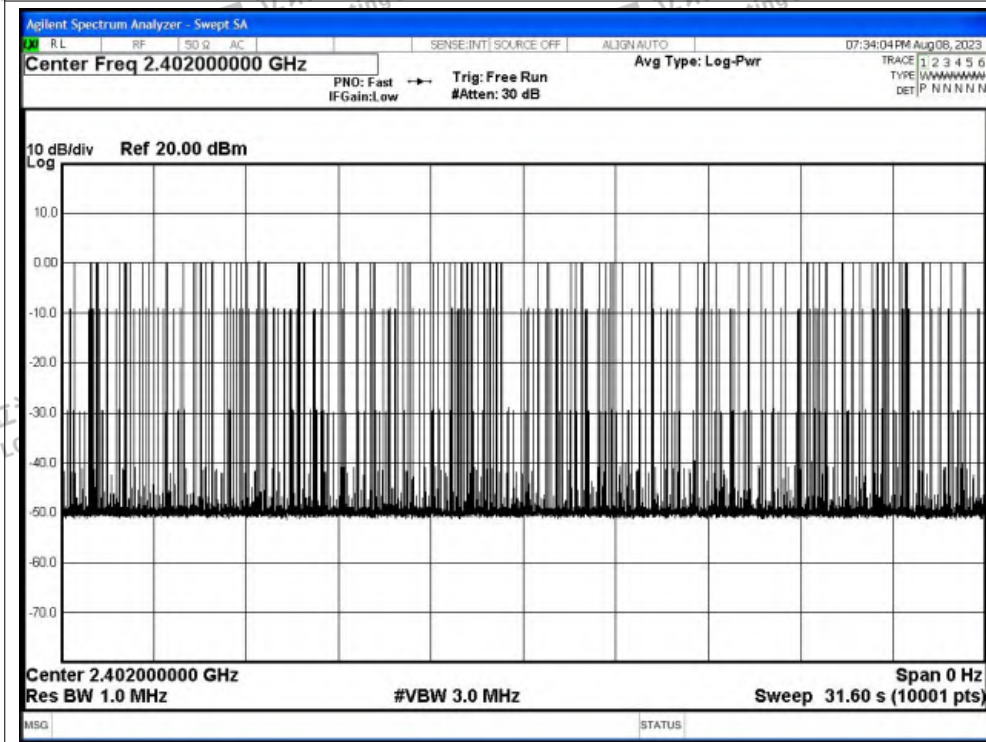


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

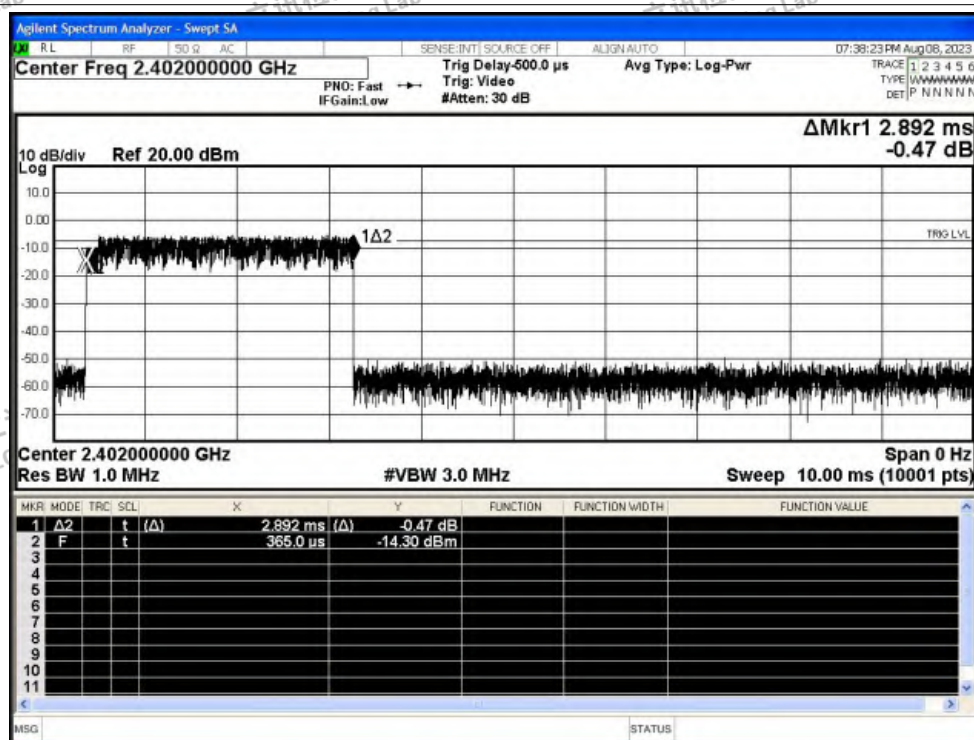


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

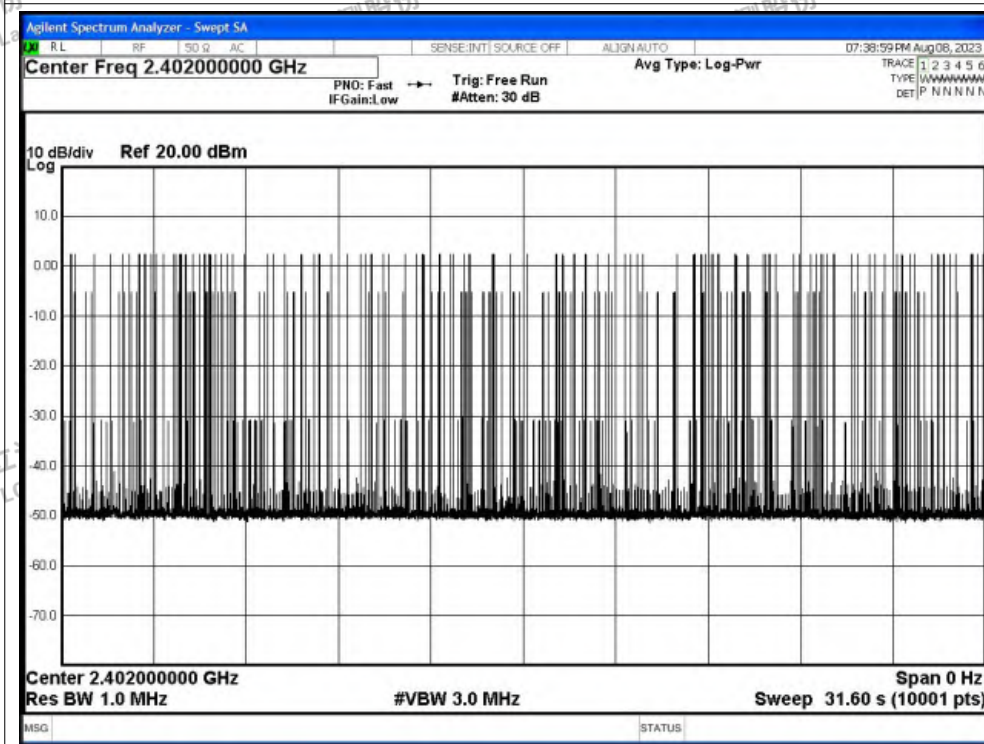




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

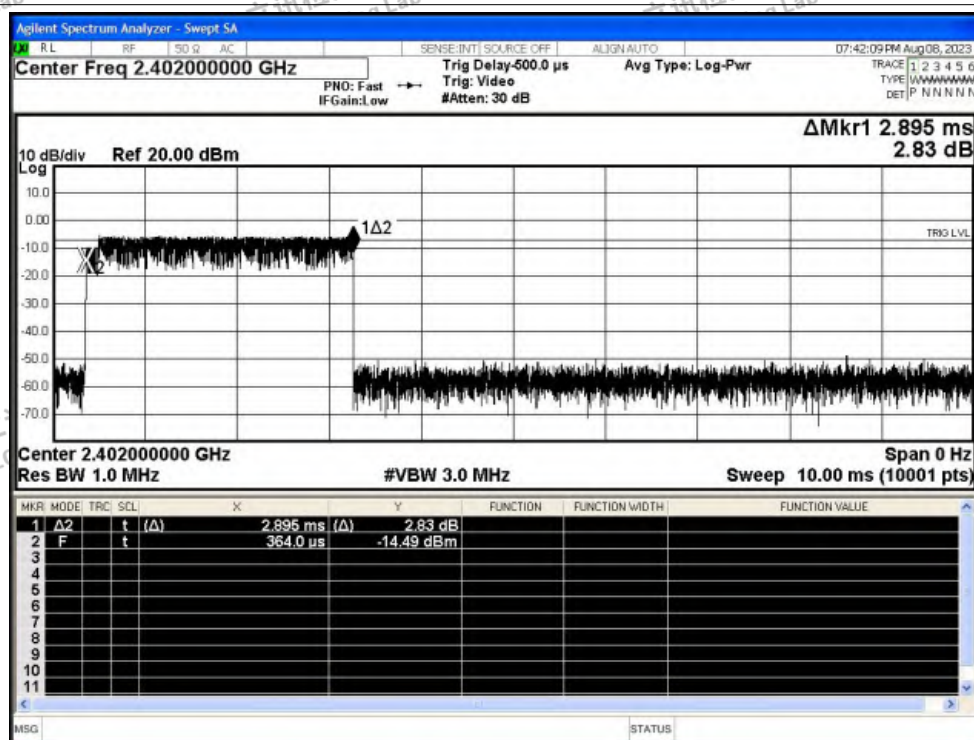
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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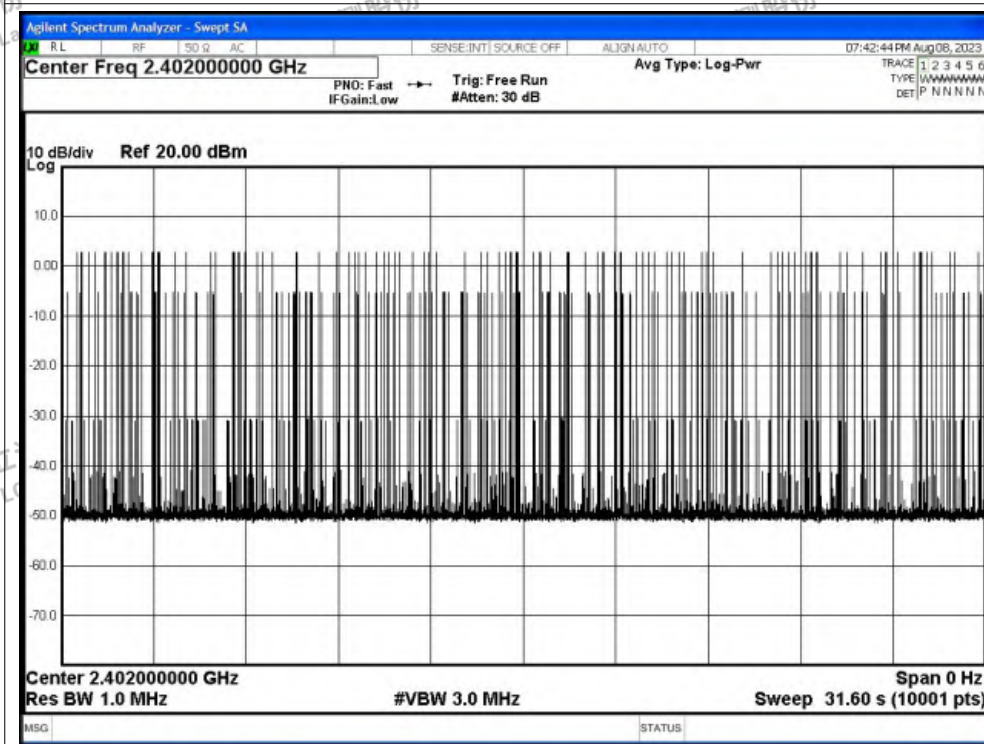
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

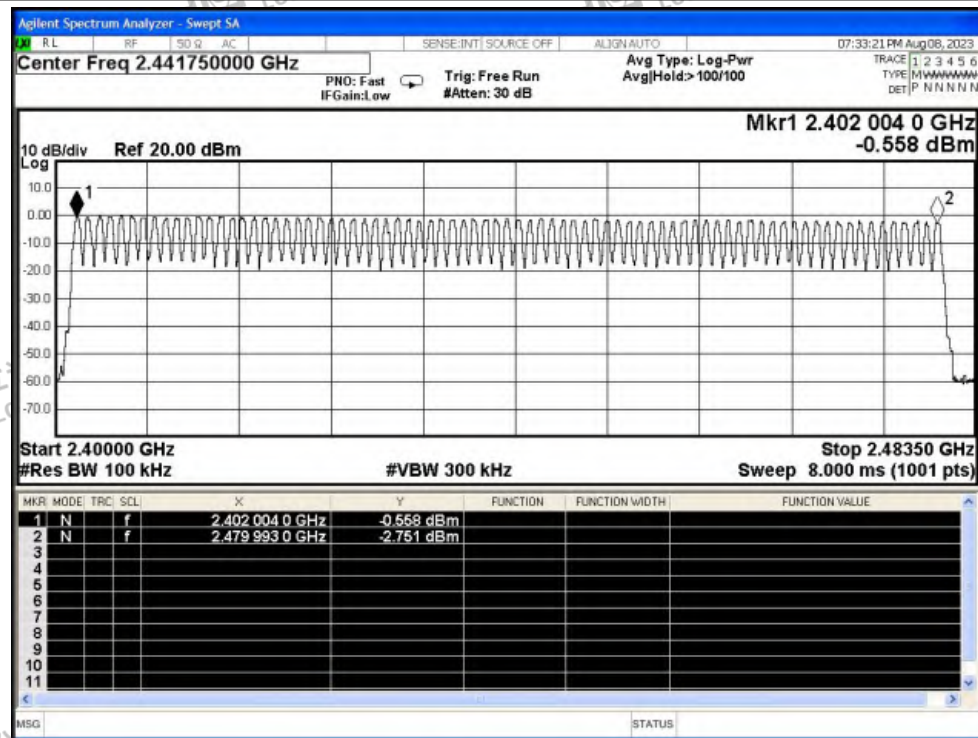


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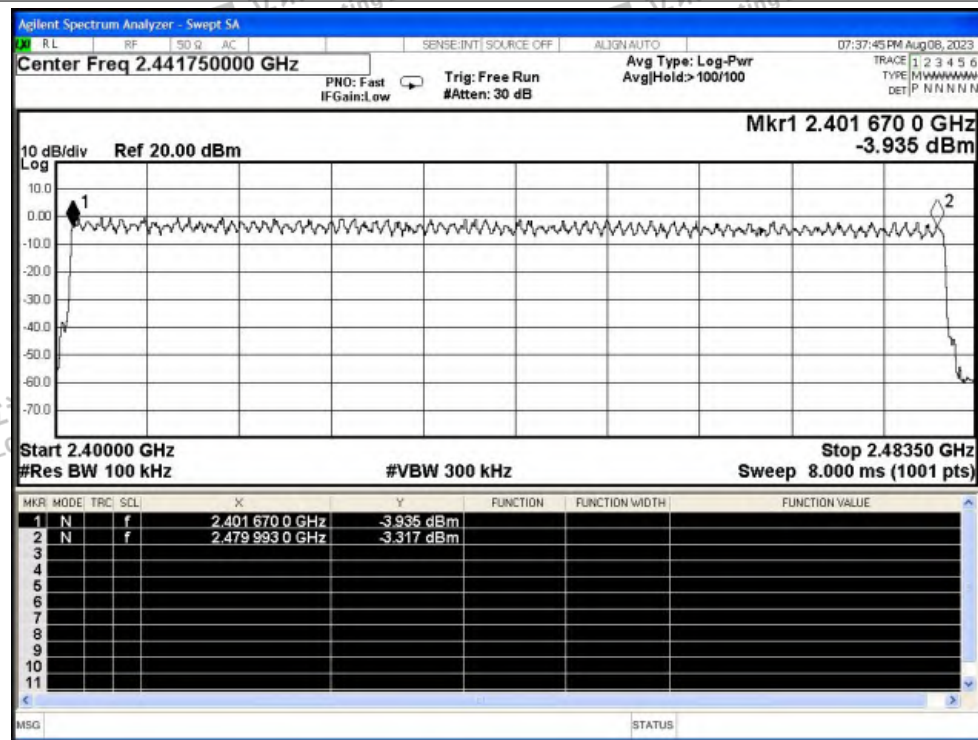


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

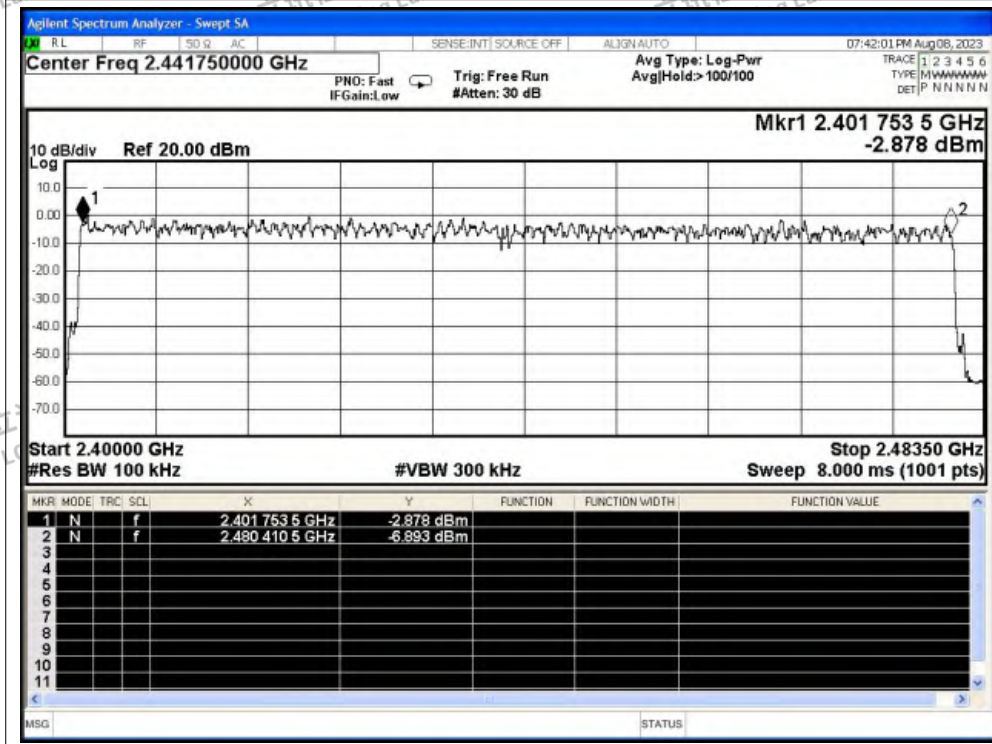


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1



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A.6 Band Edge

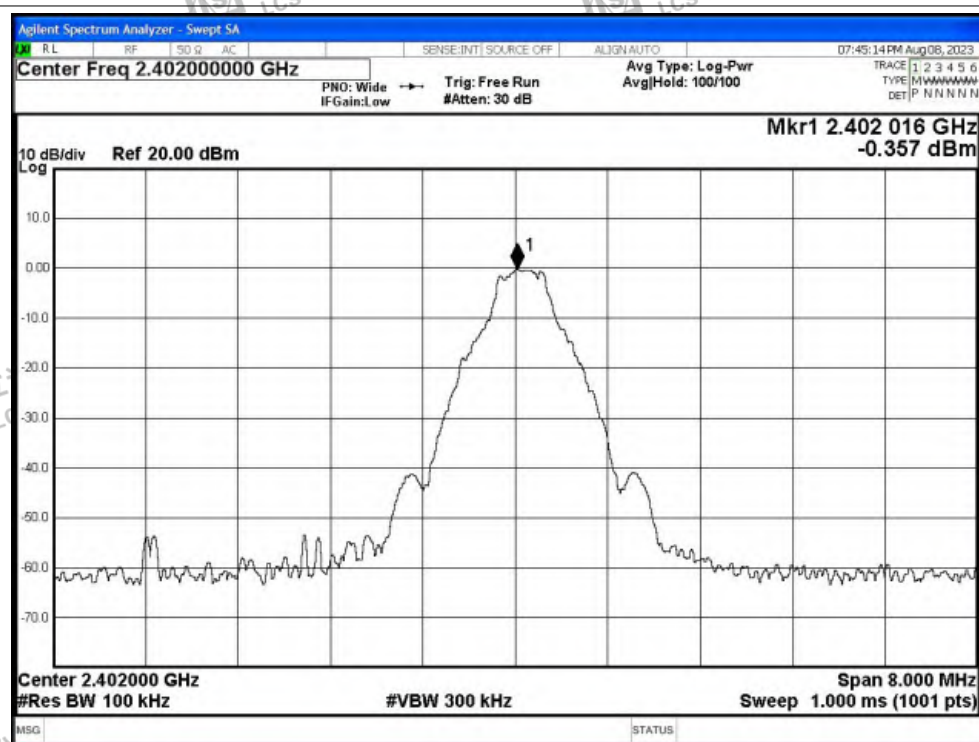
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-52.83	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.39	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-56.56	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.01	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-56.98	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.35	-20	Pass



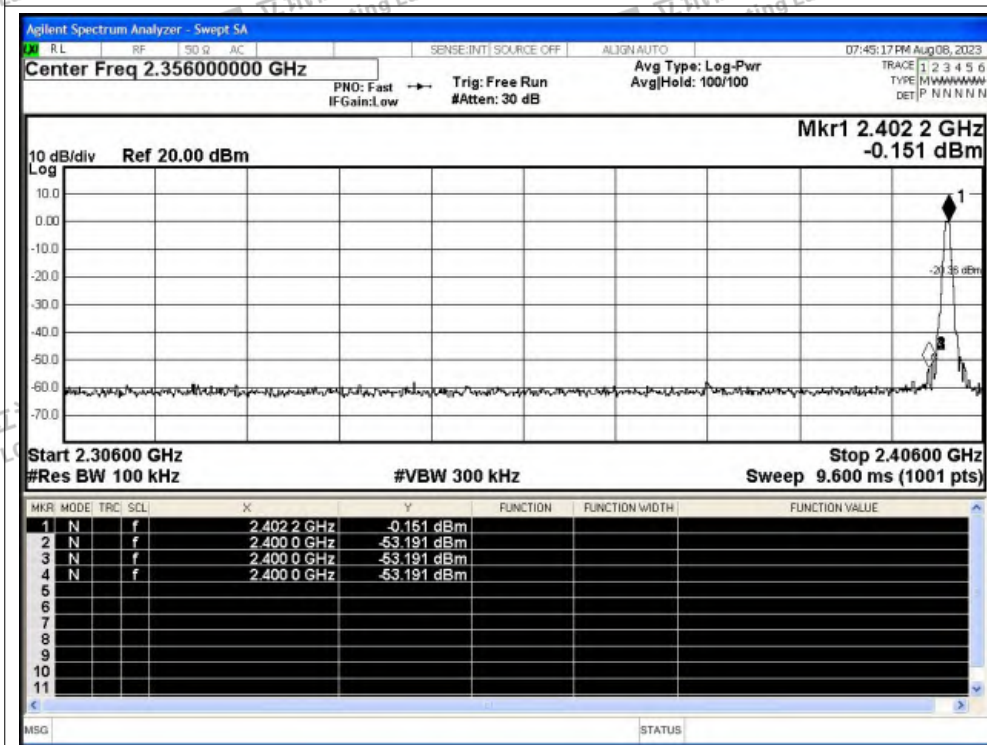


Test Graphs

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



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



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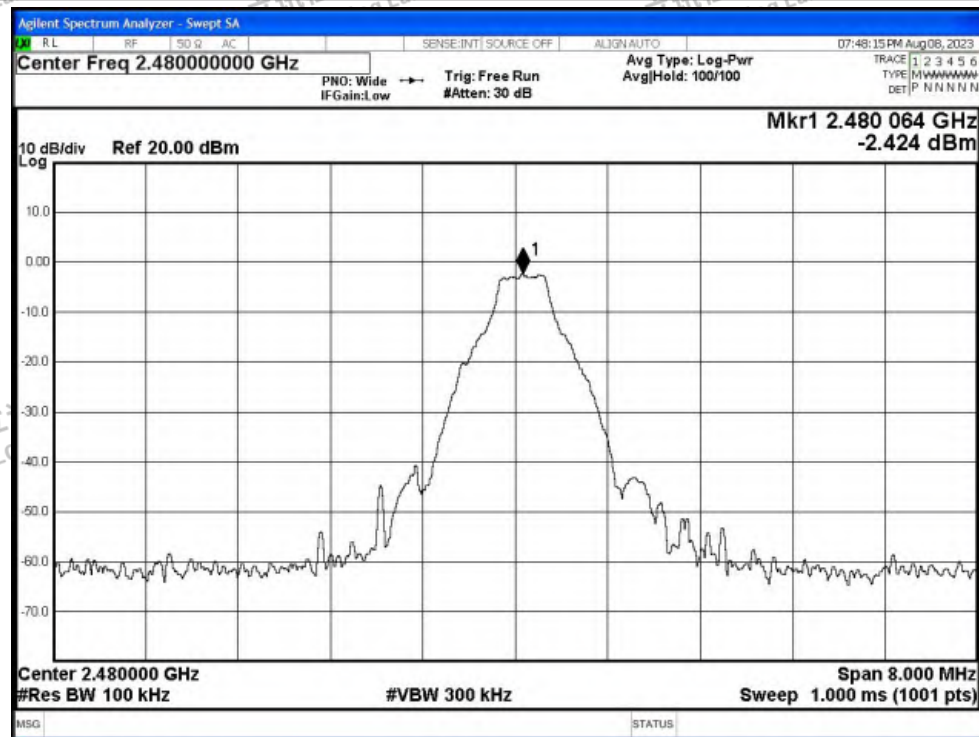
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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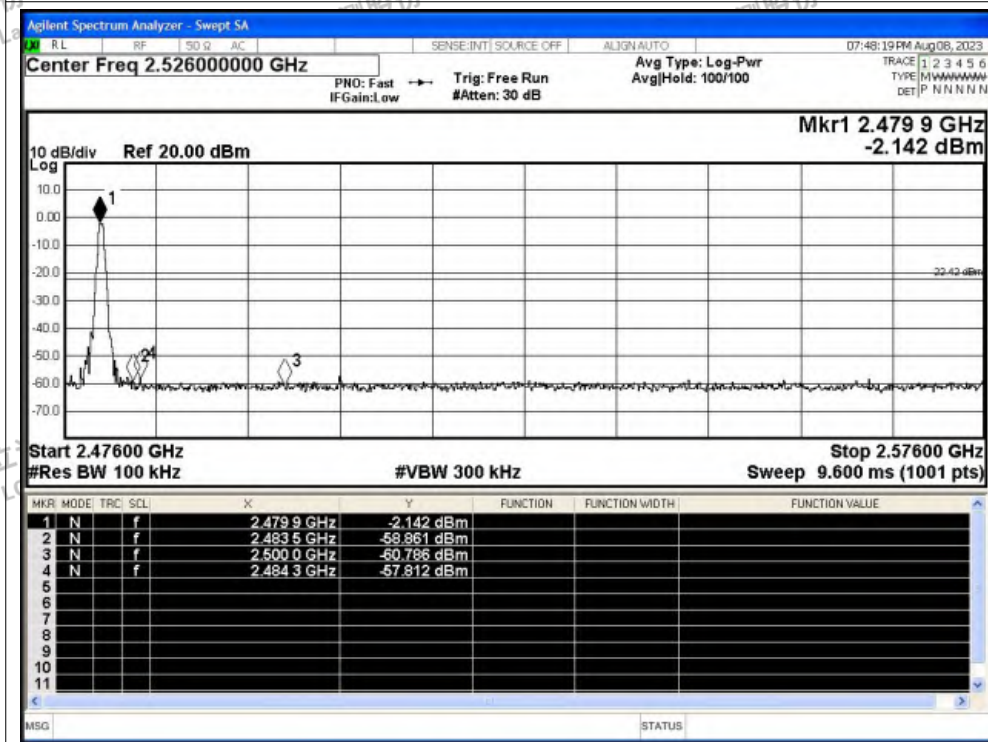
Scan code to check authenticity



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

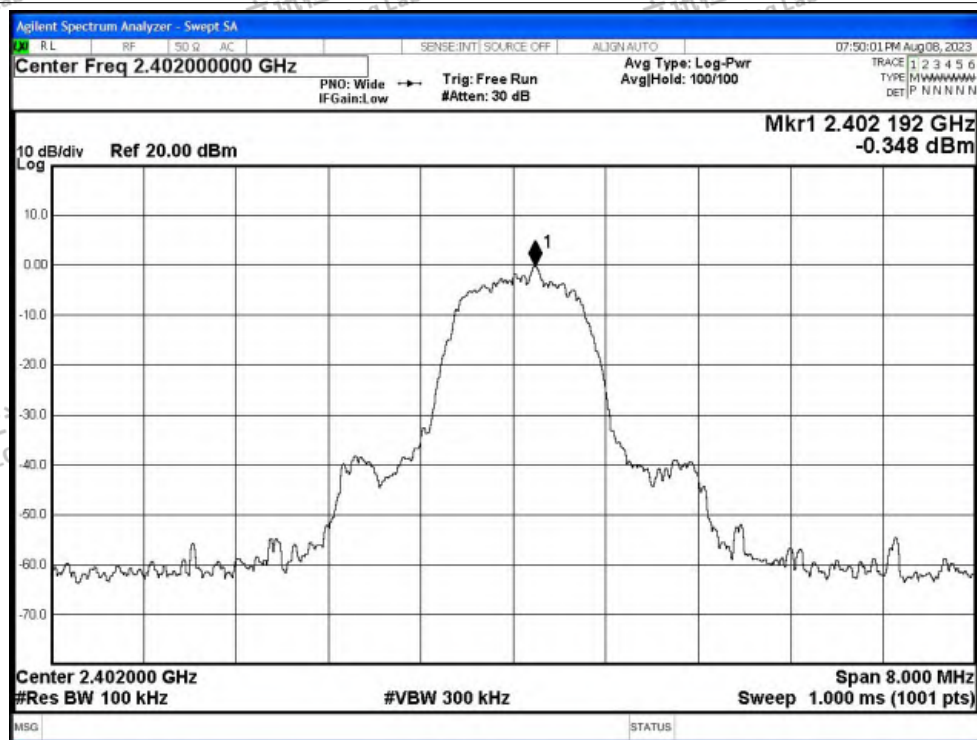


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

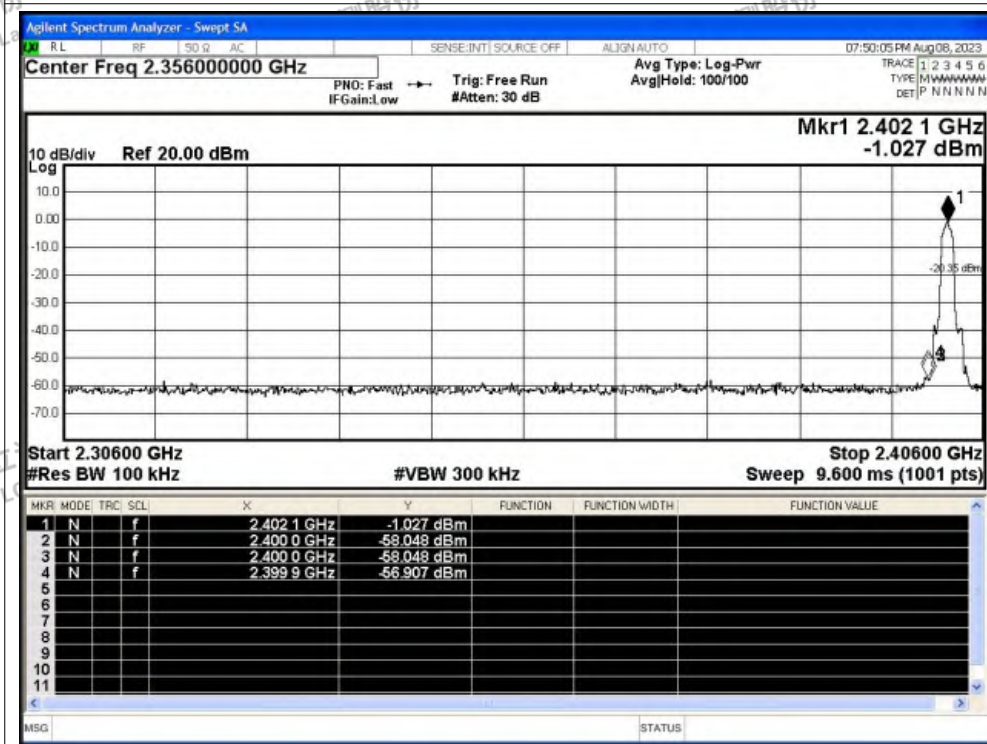




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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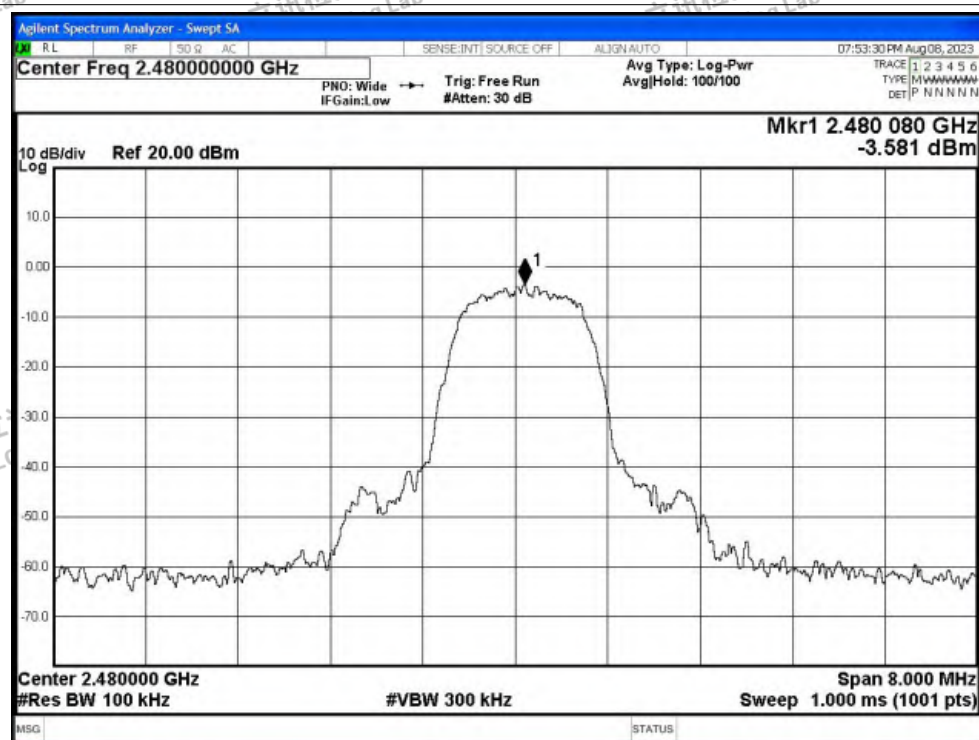
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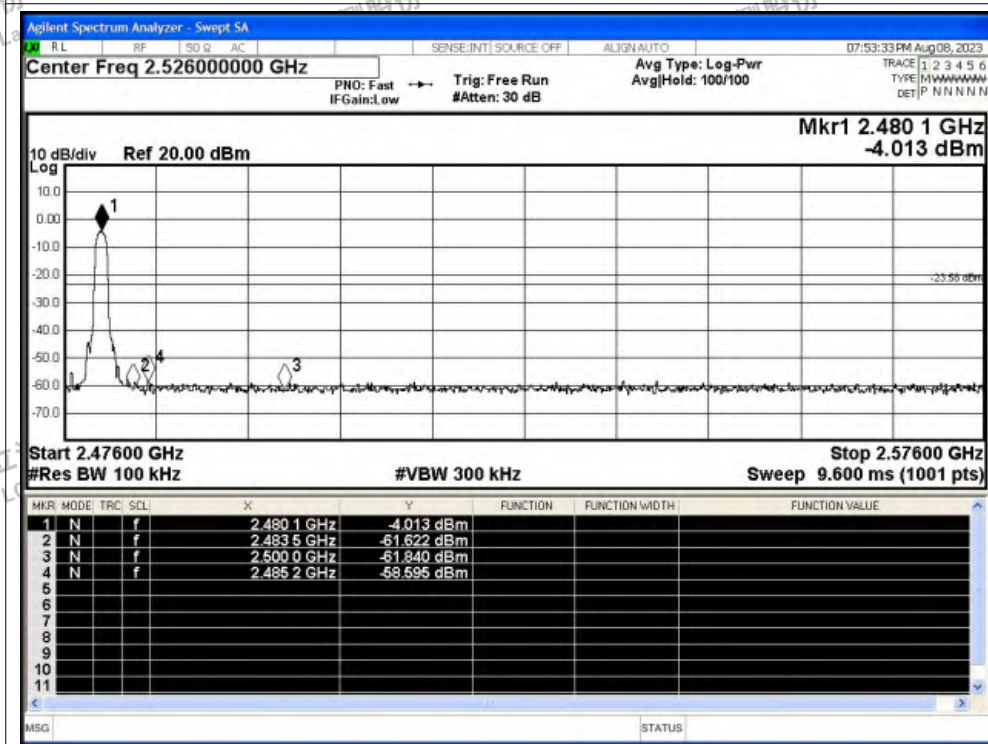
Scan code to check authenticity



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



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



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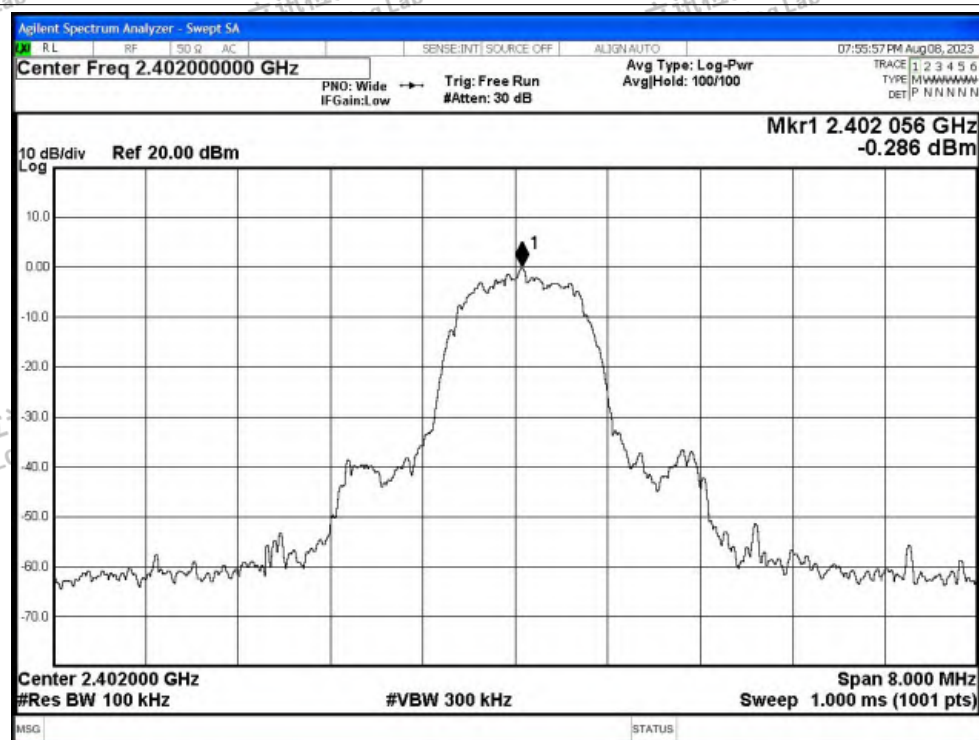
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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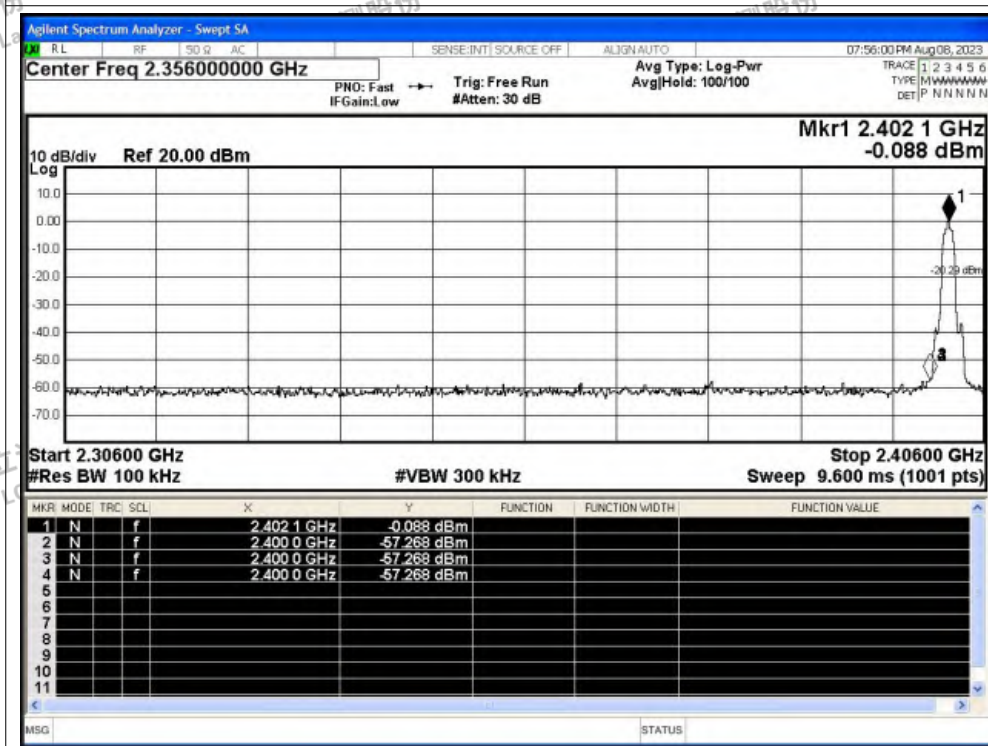
Scan code to check authenticity



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



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



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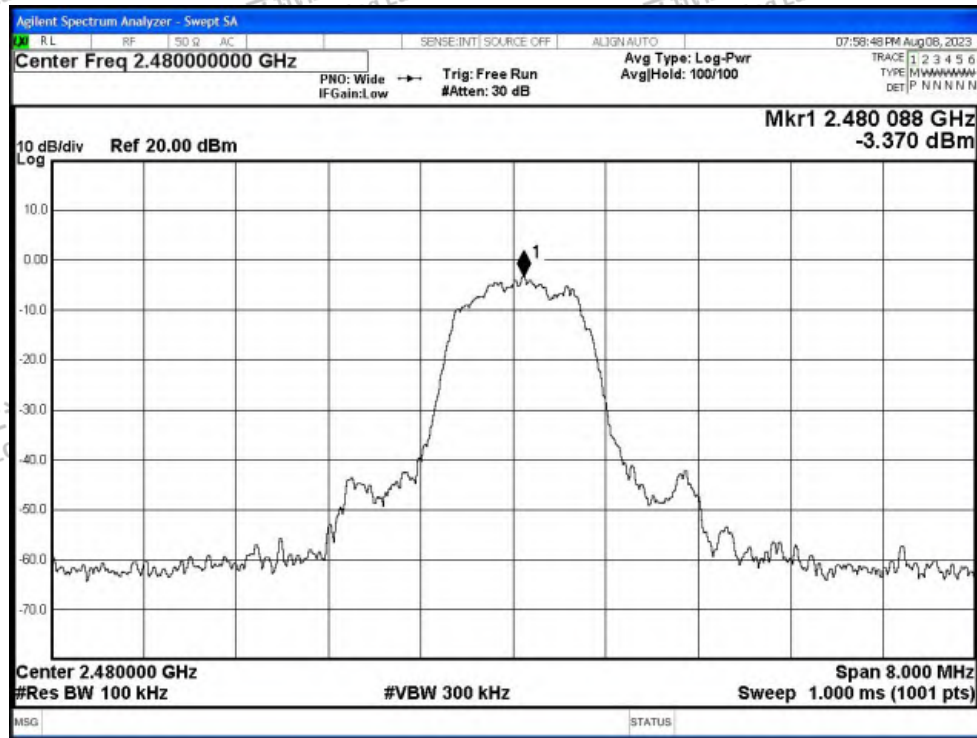
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

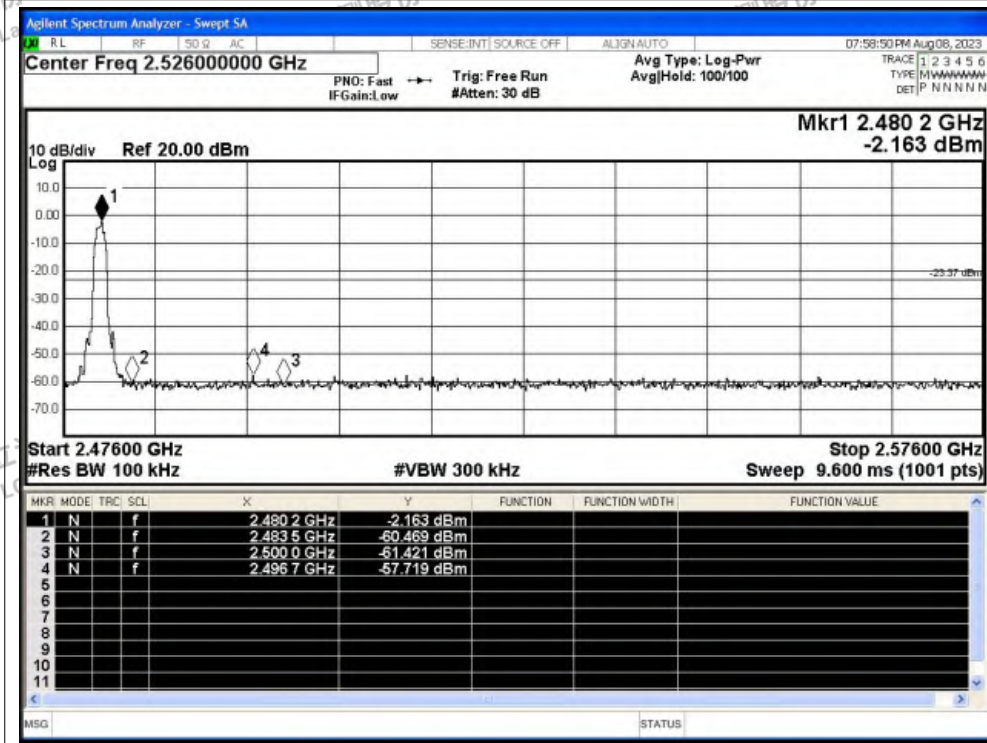
Scan code to check authenticity



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



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



**(Hopping)**

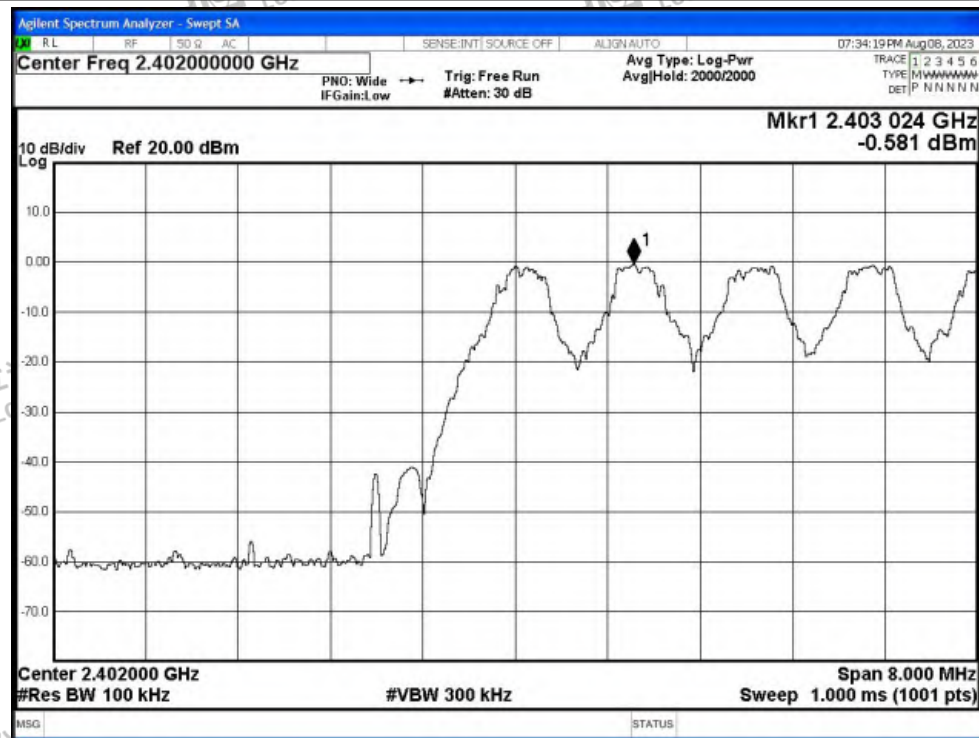
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.41	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.18	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-56.81	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.89	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-55.11	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.23	-20	Pass



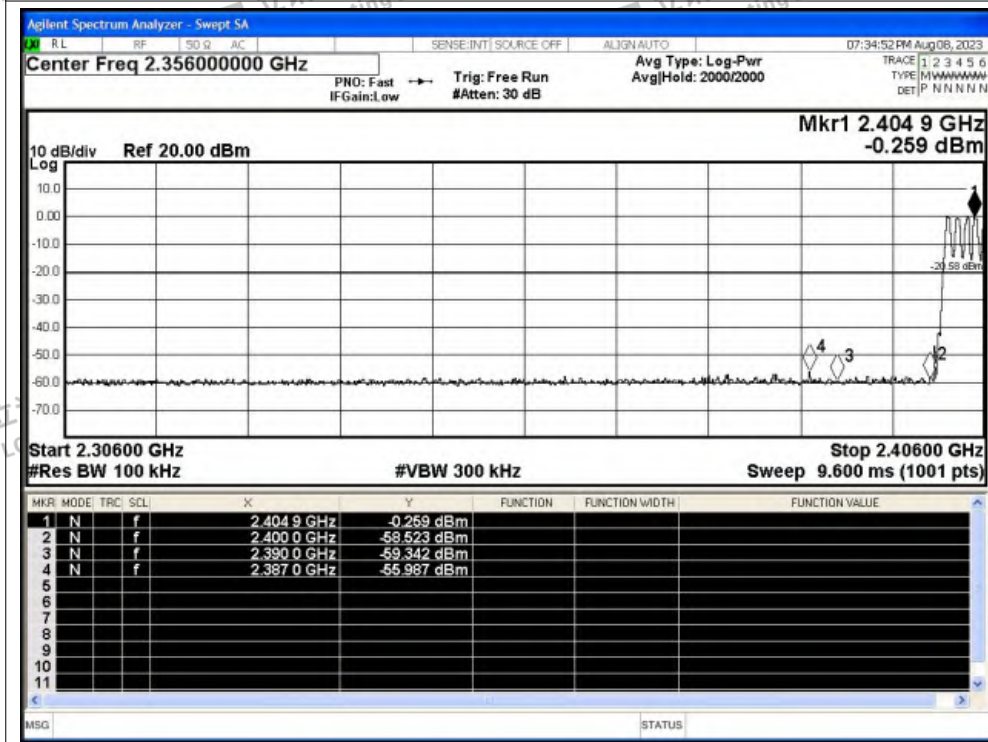


Test Graphs

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



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



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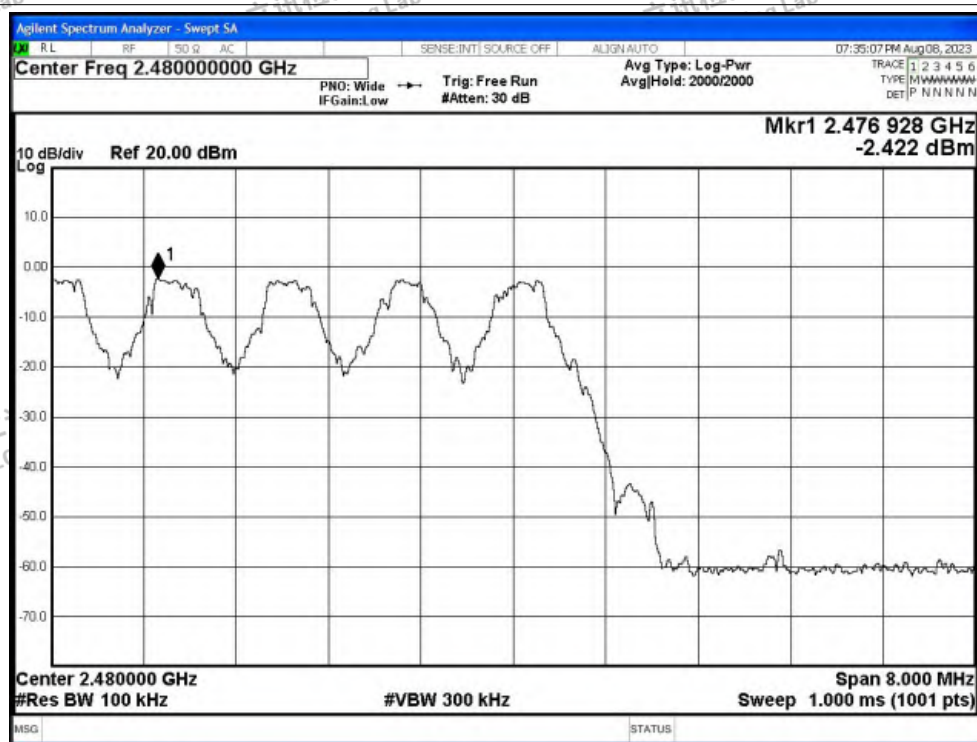
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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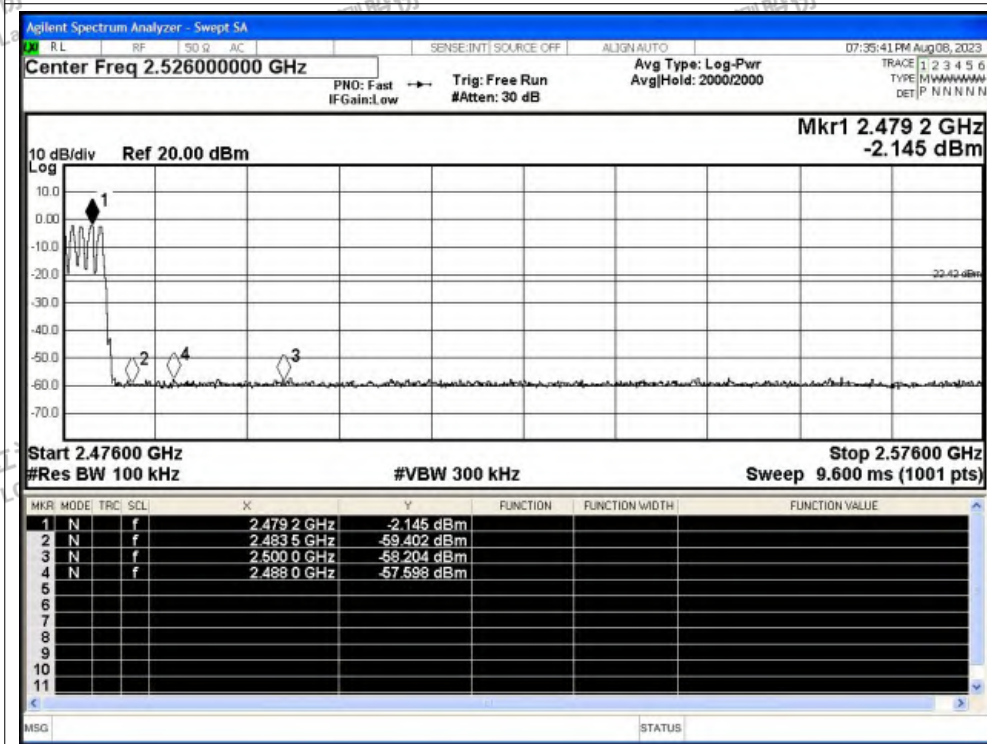
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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



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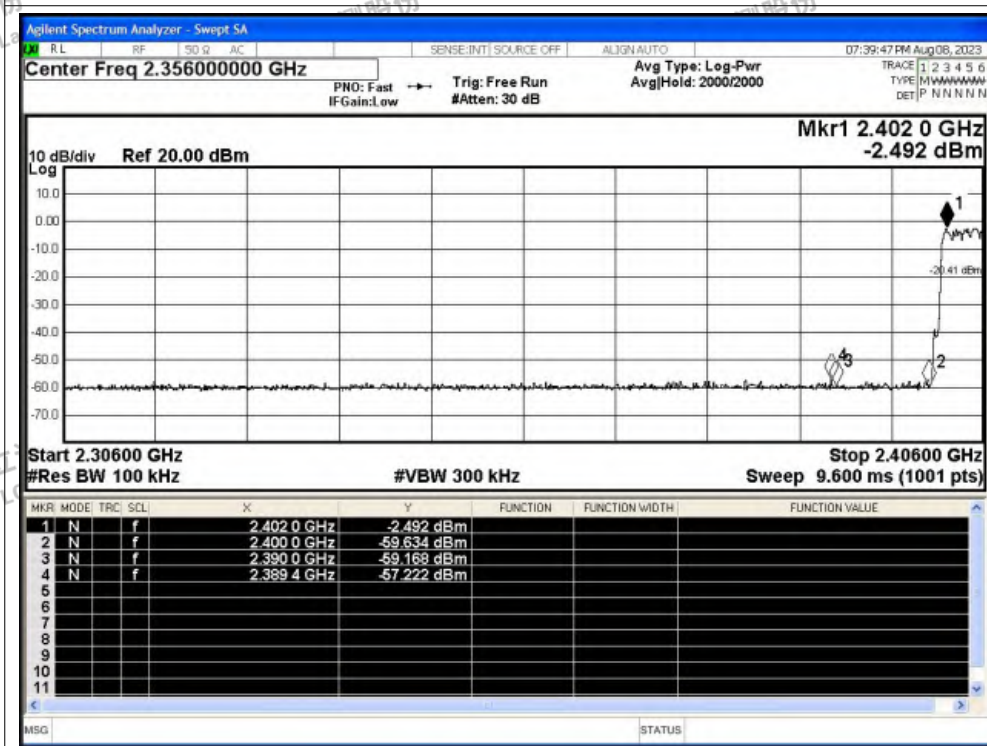
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



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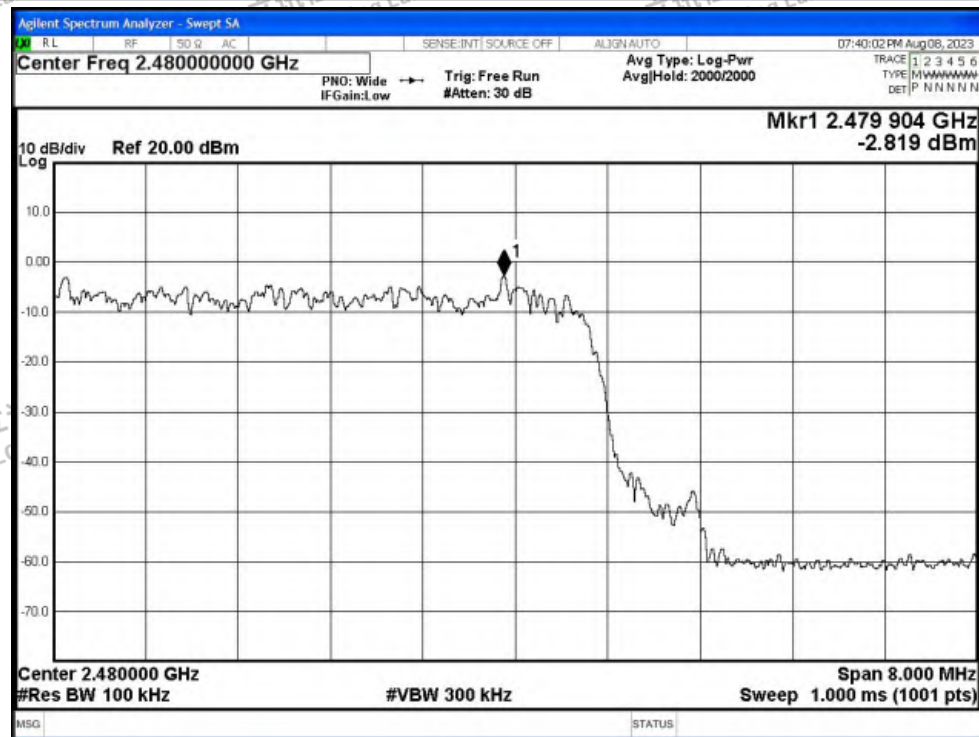
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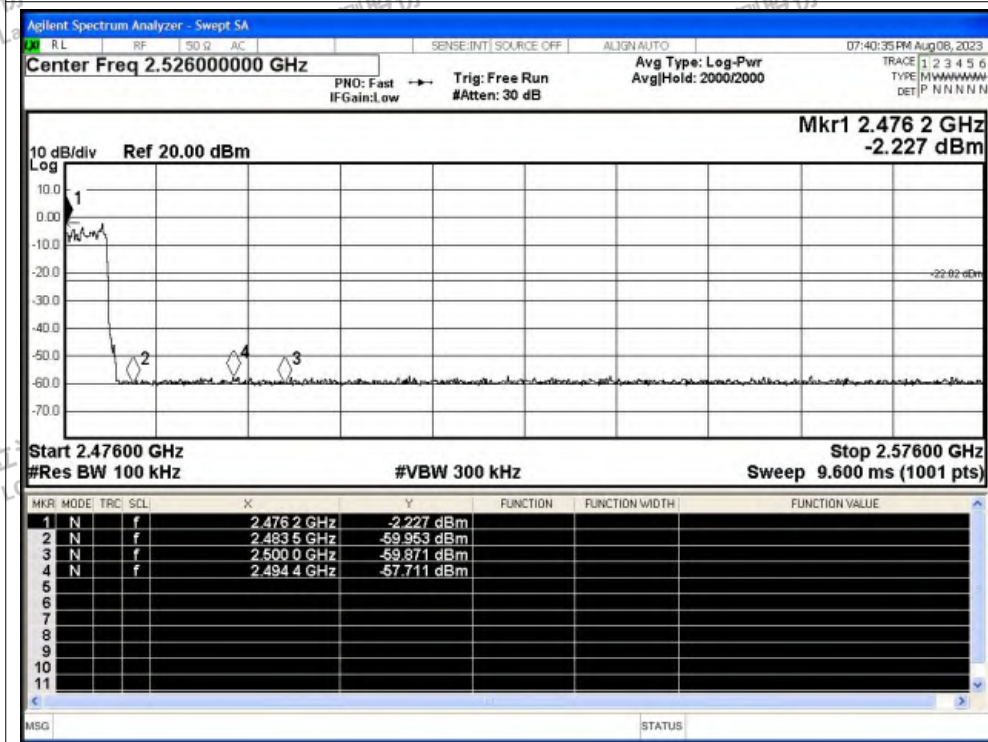
Scan code to check authenticity



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



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



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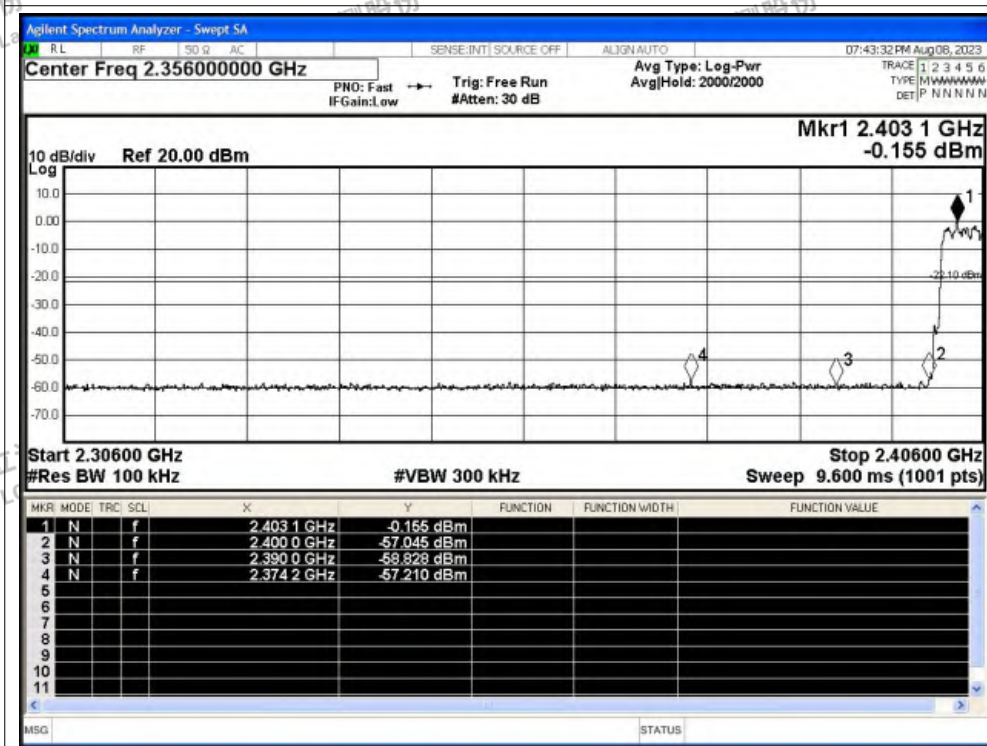
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Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



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



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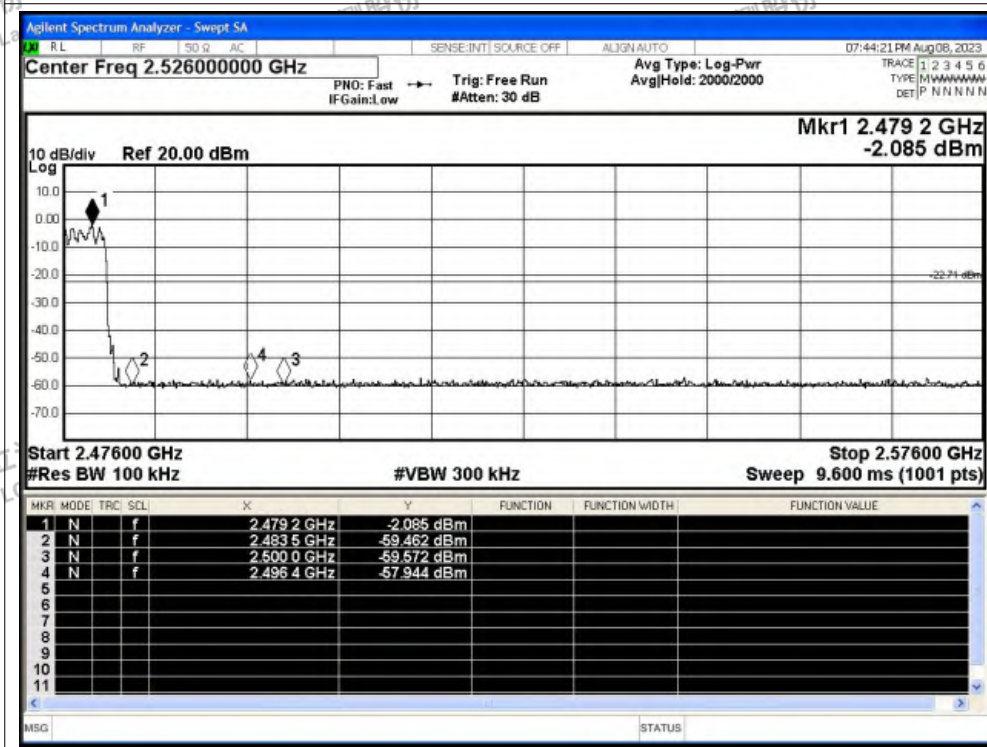
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Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-40.63	-20	Pass
NVNT	1-DH5	2441	Ant1	-39.05	-20	Pass
NVNT	1-DH5	2480	Ant1	-40.43	-20	Pass
NVNT	2-DH5	2402	Ant1	-39.2	-20	Pass
NVNT	2-DH5	2441	Ant1	-43.81	-20	Pass
NVNT	2-DH5	2480	Ant1	-42.26	-20	Pass
NVNT	3-DH5	2402	Ant1	-39.97	-20	Pass
NVNT	3-DH5	2441	Ant1	-44.61	-20	Pass
NVNT	3-DH5	2480	Ant1	-40.04	-20	Pass

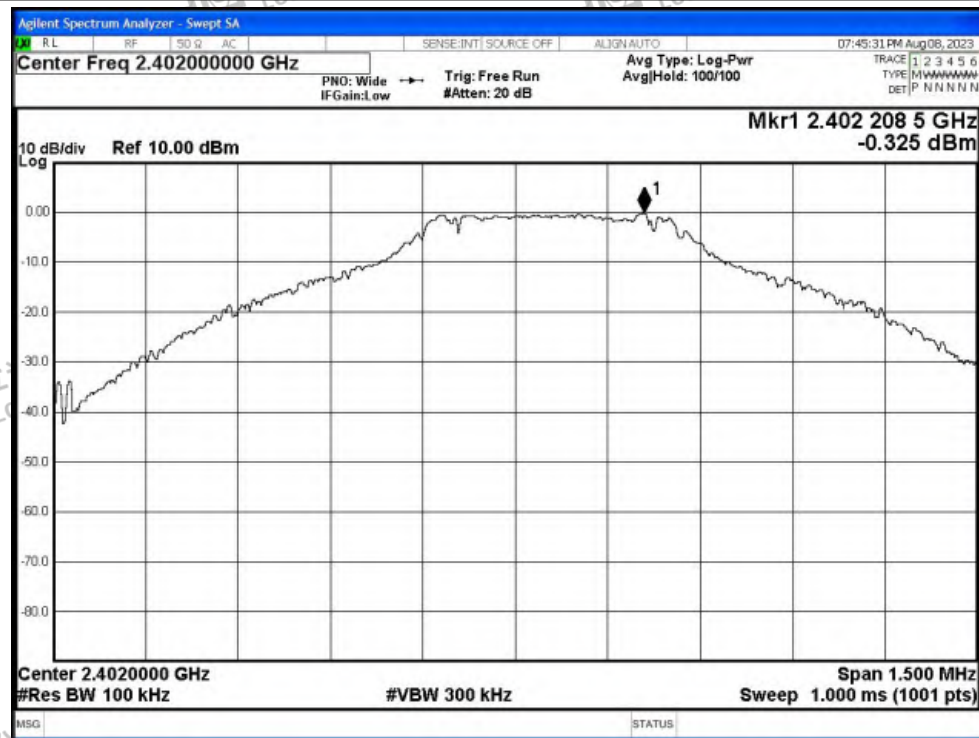


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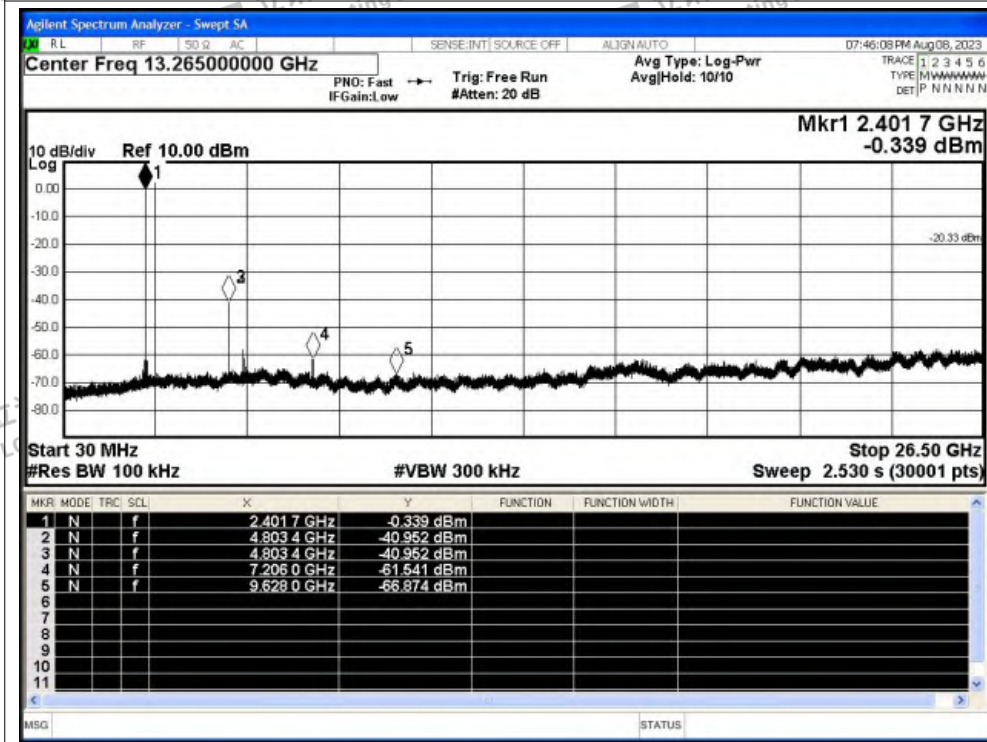


Test Graphs

Tx: Spurious NVNT 1-DH5 2402MHz Ant1 Ref

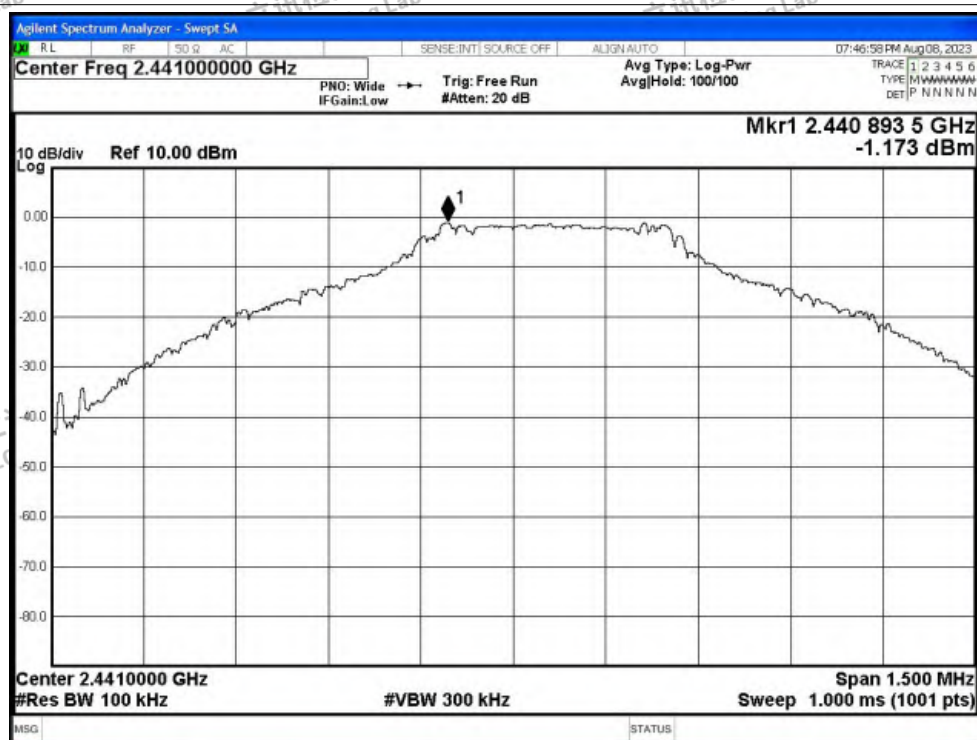


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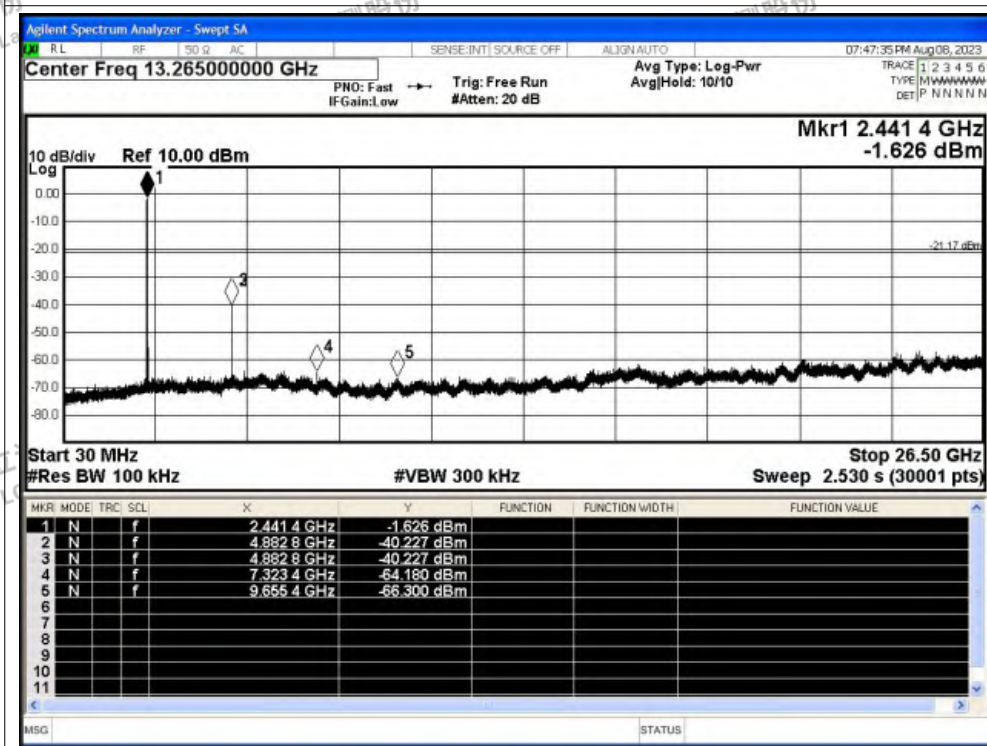




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

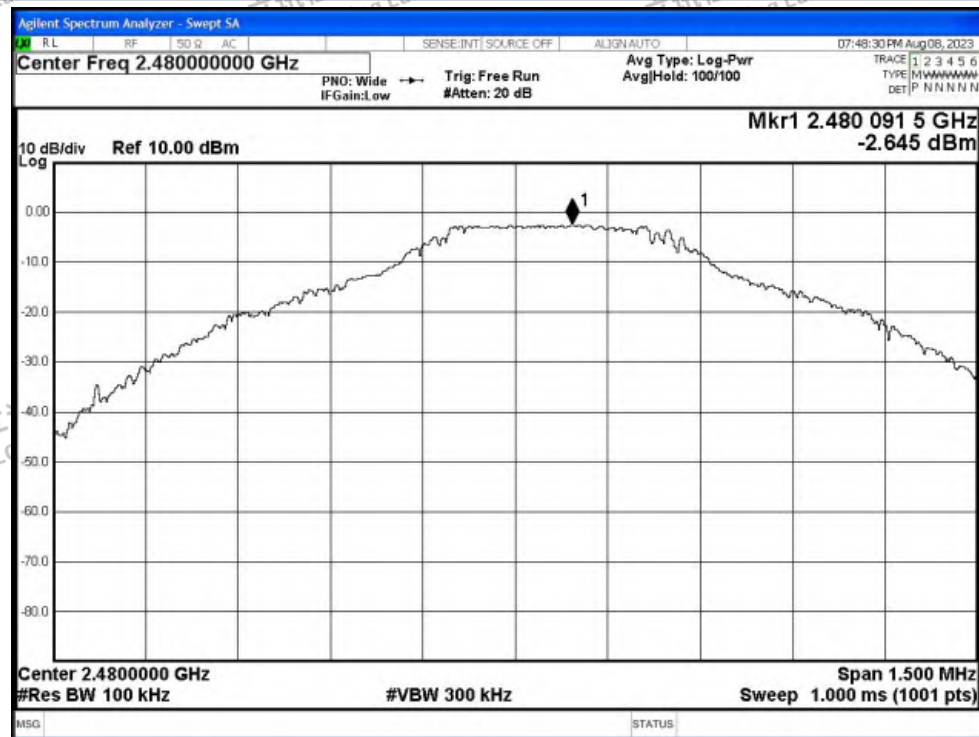


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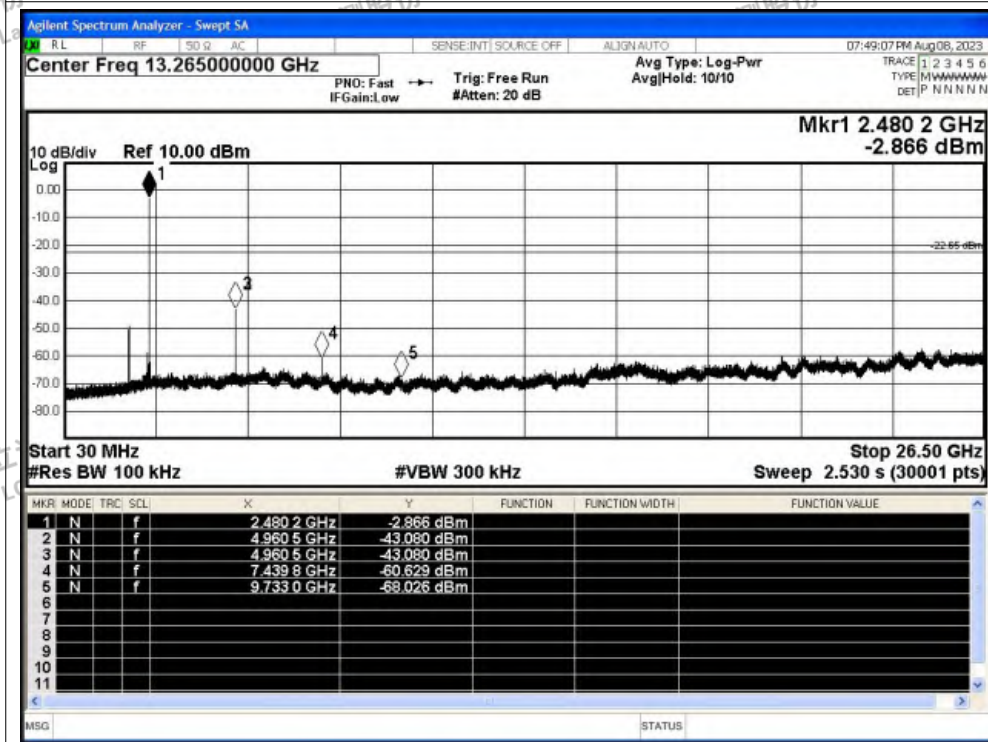




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

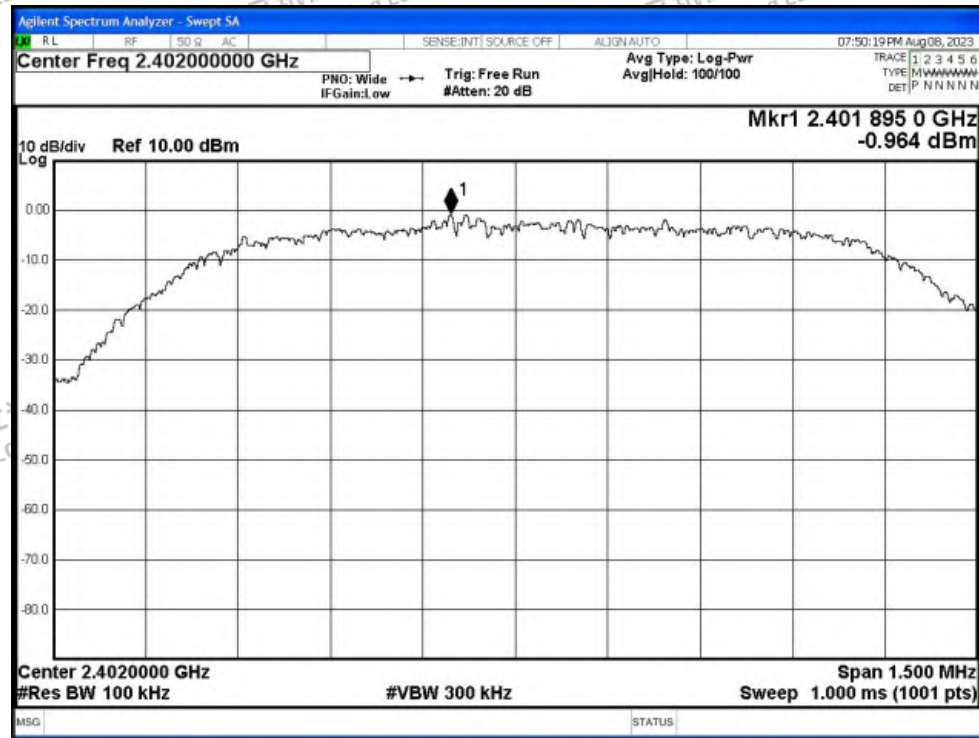
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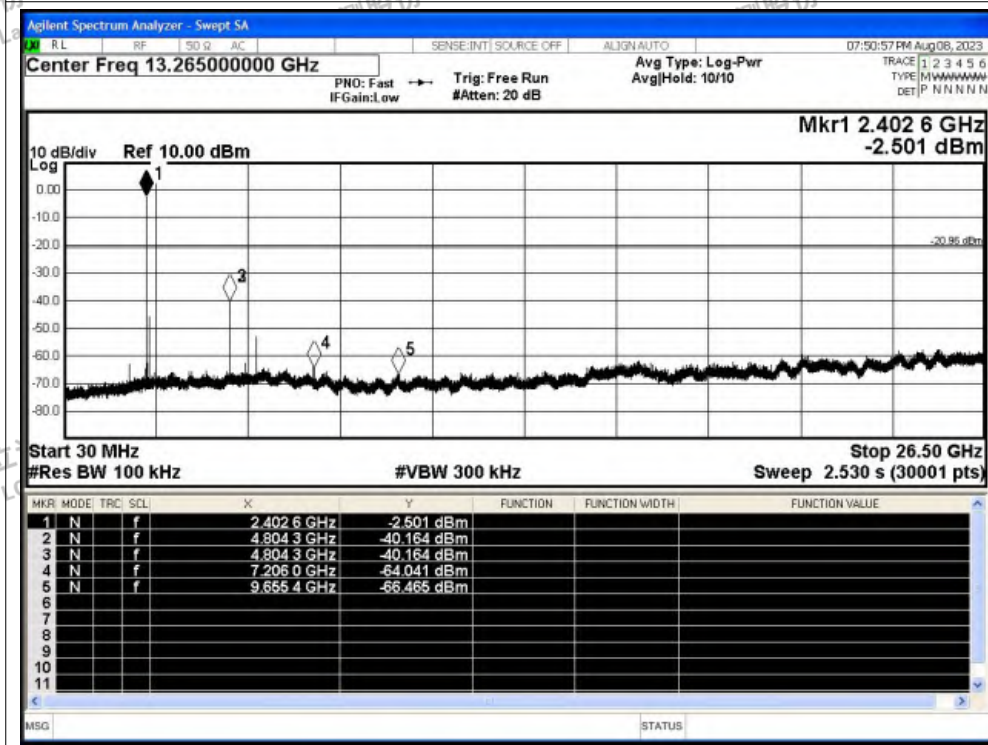
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

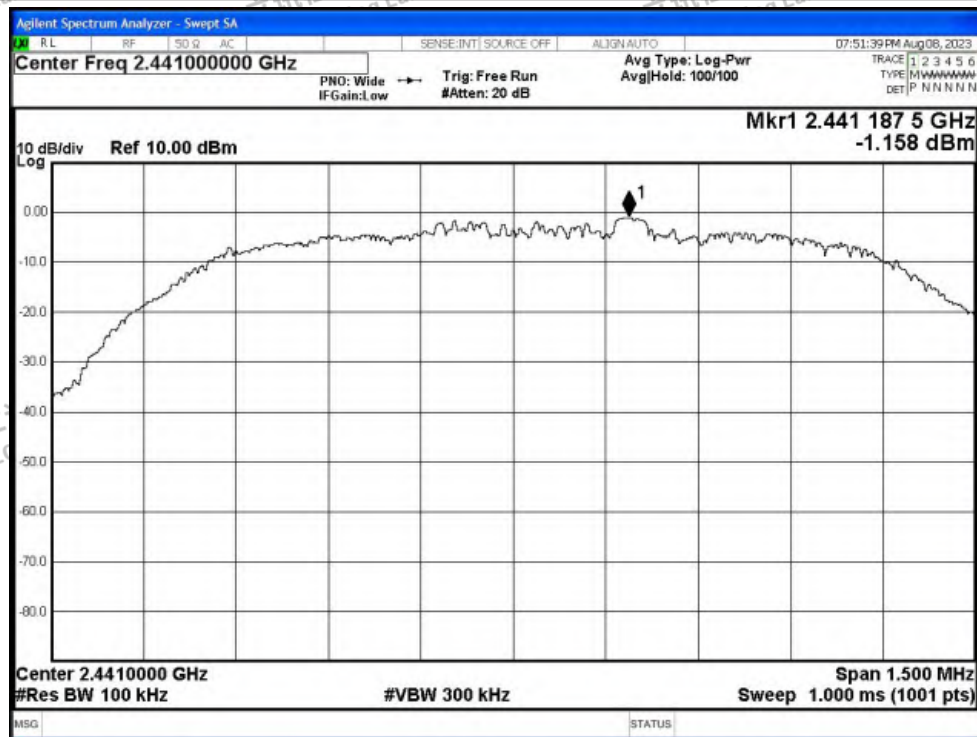
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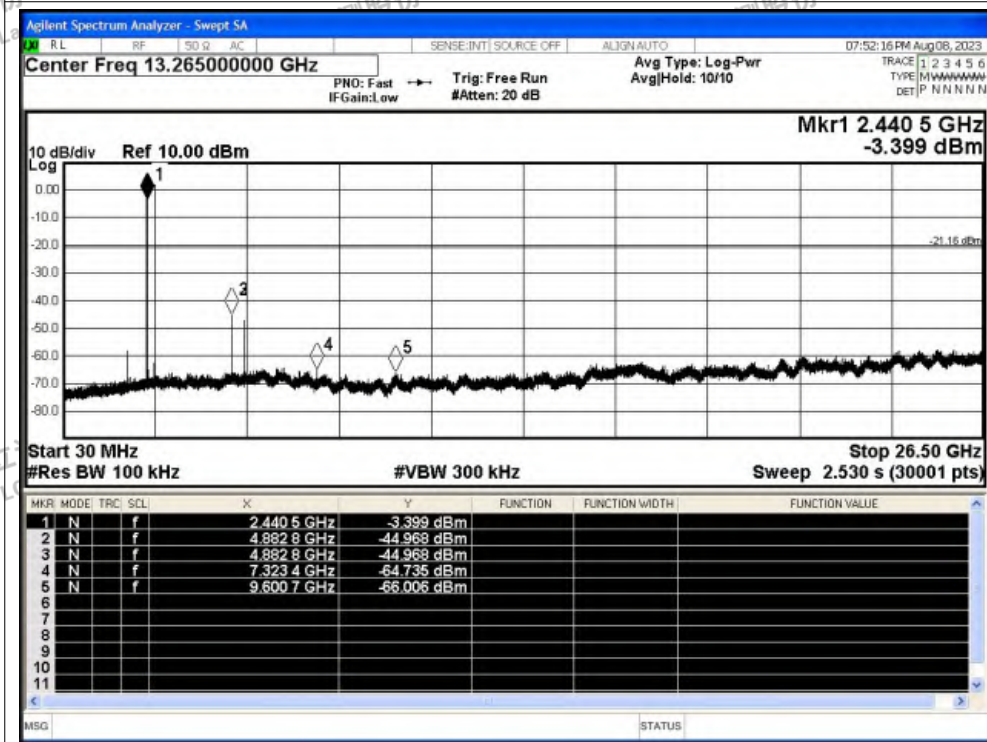
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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

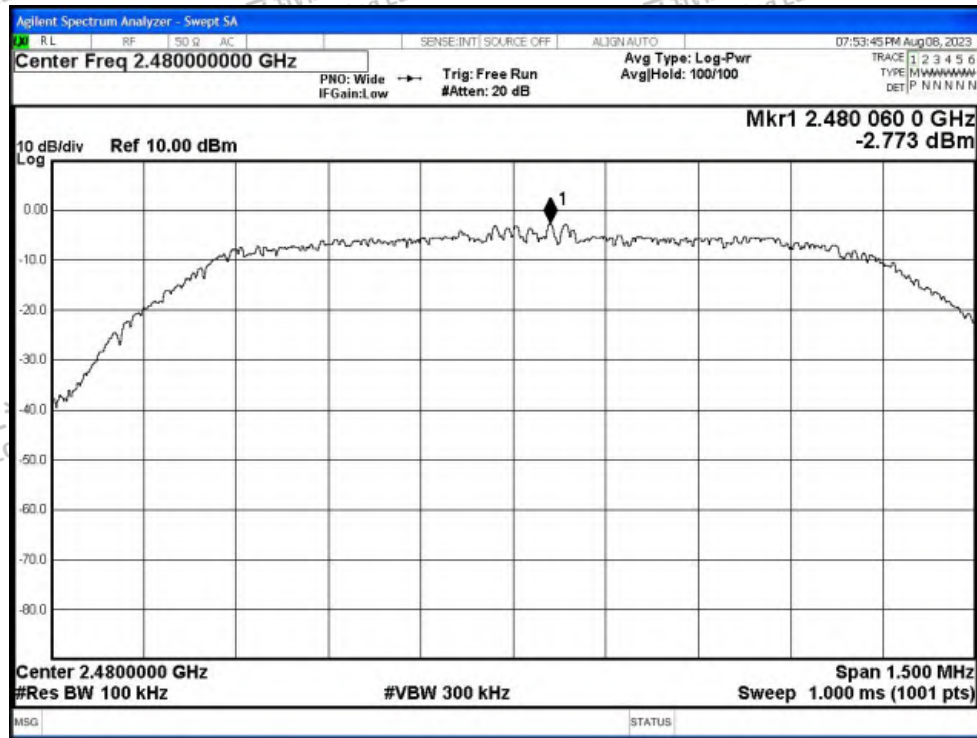
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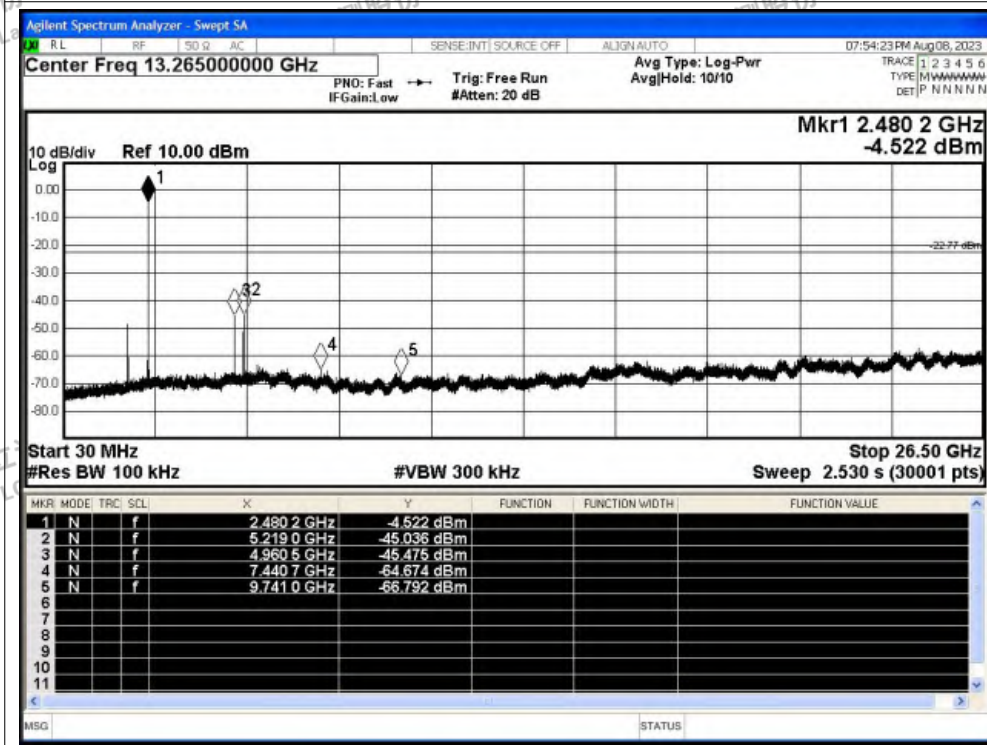
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

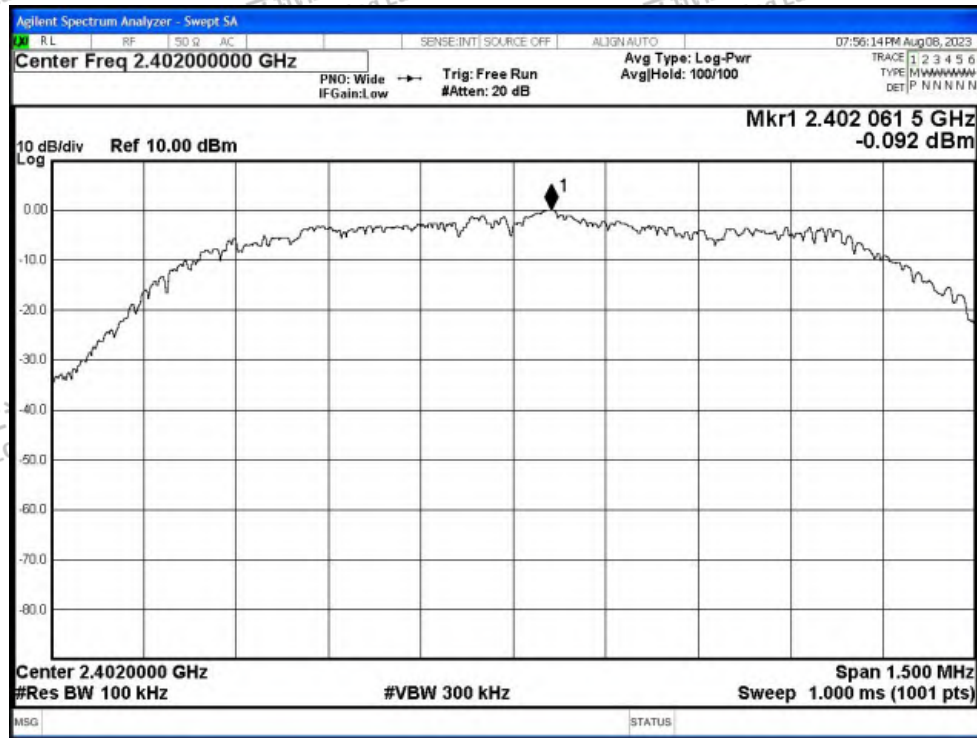
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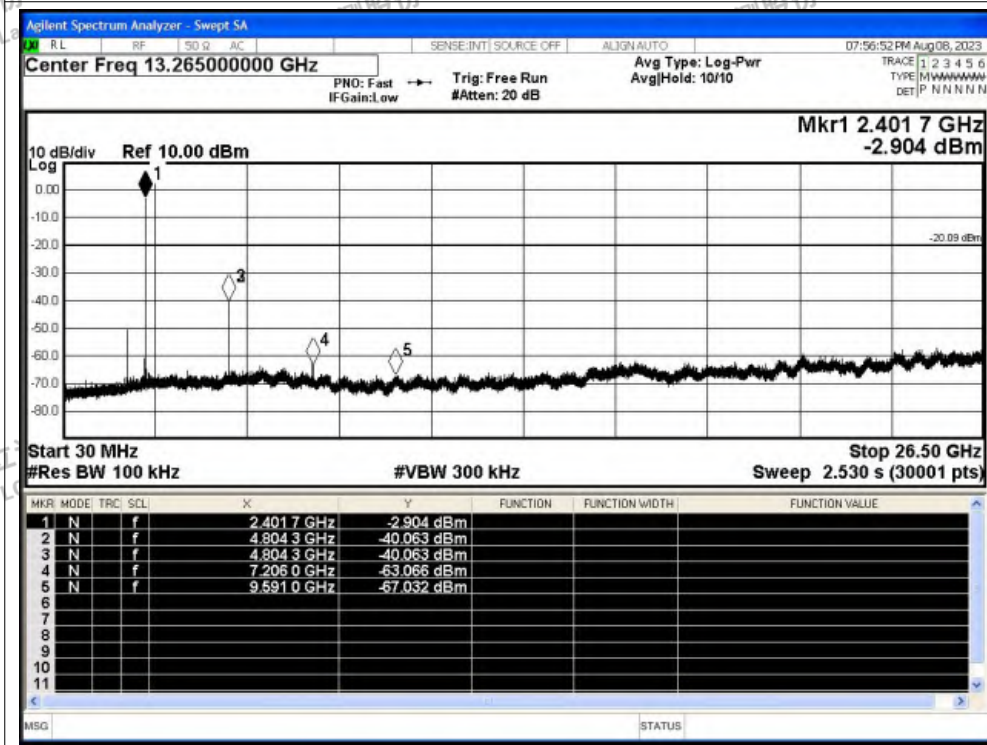
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Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

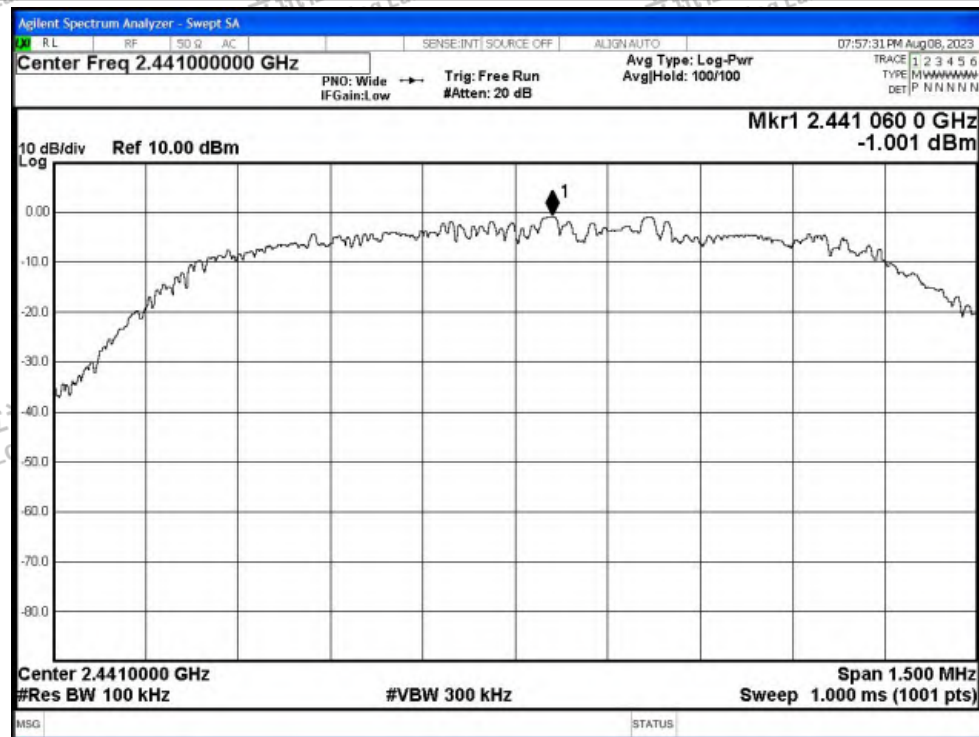
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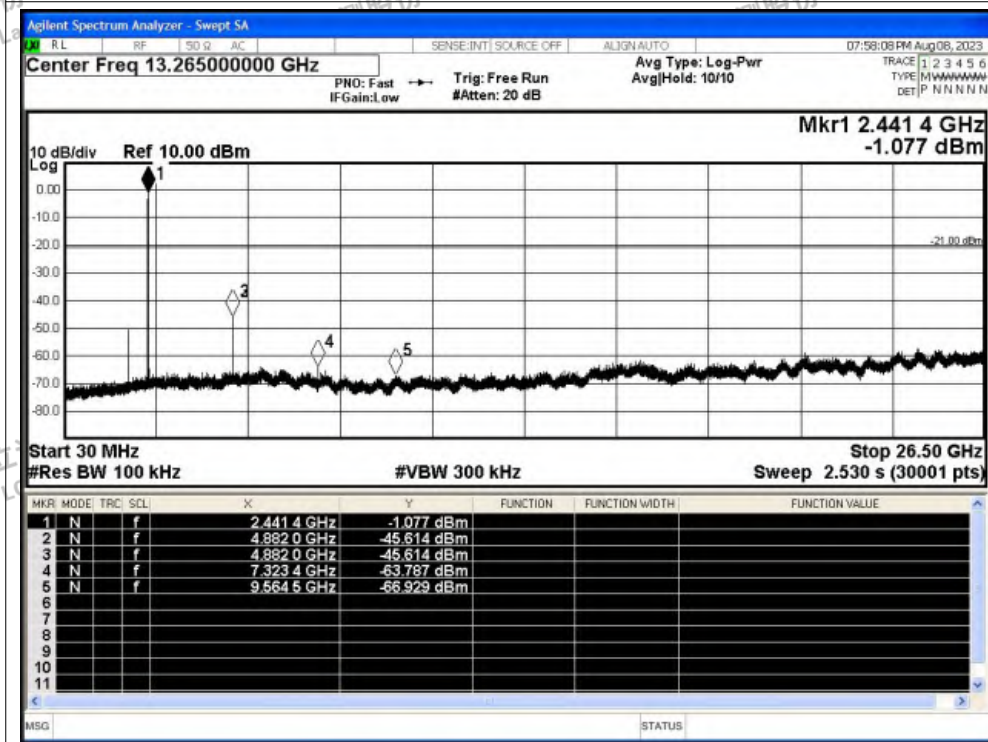
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Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

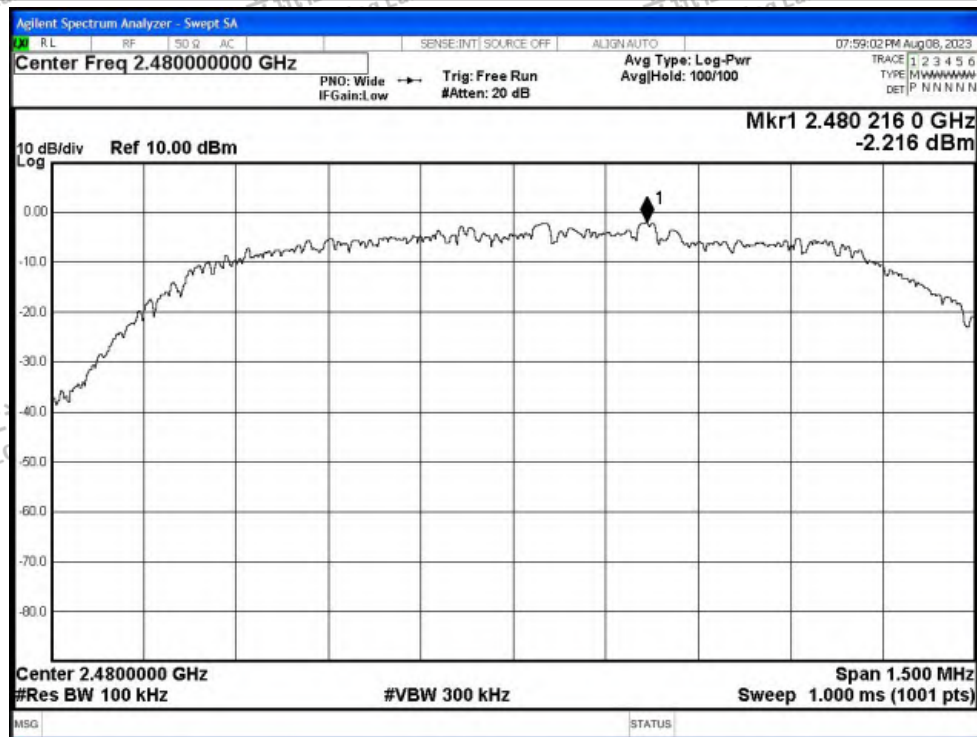
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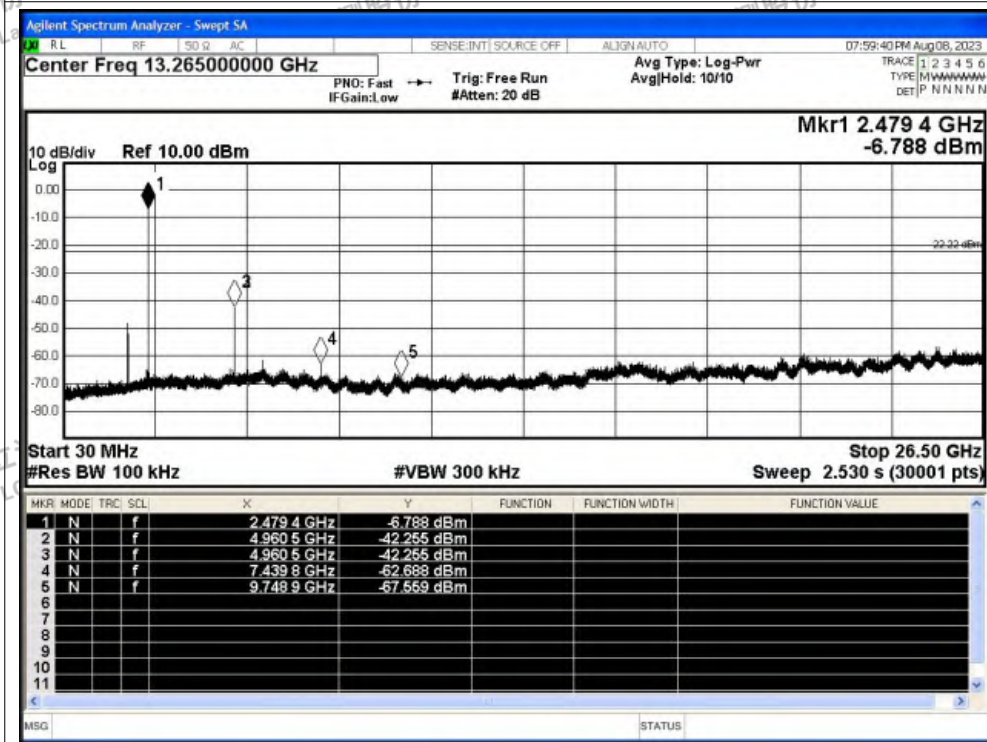
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





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	-53.45	2	43.81	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-62.04	2	35.22	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2375.088	-48.56	2	48.7	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2376.048	-59.67	2	37.59	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.48	2	45.78	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-61.79	2	35.47	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.75	2	46.51	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-61.01	2	36.25	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.872	-48.65	2	48.61	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.136	-60.8	2	36.46	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.2	2	47.06	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-61.55	2	35.71	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.36	2	44.9	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-61.94	2	35.32	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2370.768	-49.05	2	48.21	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2376.144	-60.2	2	37.06	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.74	2	46.52	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-61.67	2	35.59	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50	2	47.26	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-61.1	2	36.16	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.384	-49.09	2	48.17	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.608	-61.06	2	36.2	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-52.5	2	44.76	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-61.52	2	35.74	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.4	2	44.86	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-62.05	2	35.21	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2376.912	-48.53	2	48.73	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2375.952	-60.09	2	37.17	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.97	2	46.29	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-61.71	2	35.55	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-51.31	2	45.95	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-61.07	2	36.19	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.656	-47.67	2	49.59	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.728	-61.05	2	36.21	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-53.4	2	43.86	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-61.67	2	35.59	Average	54	Pass

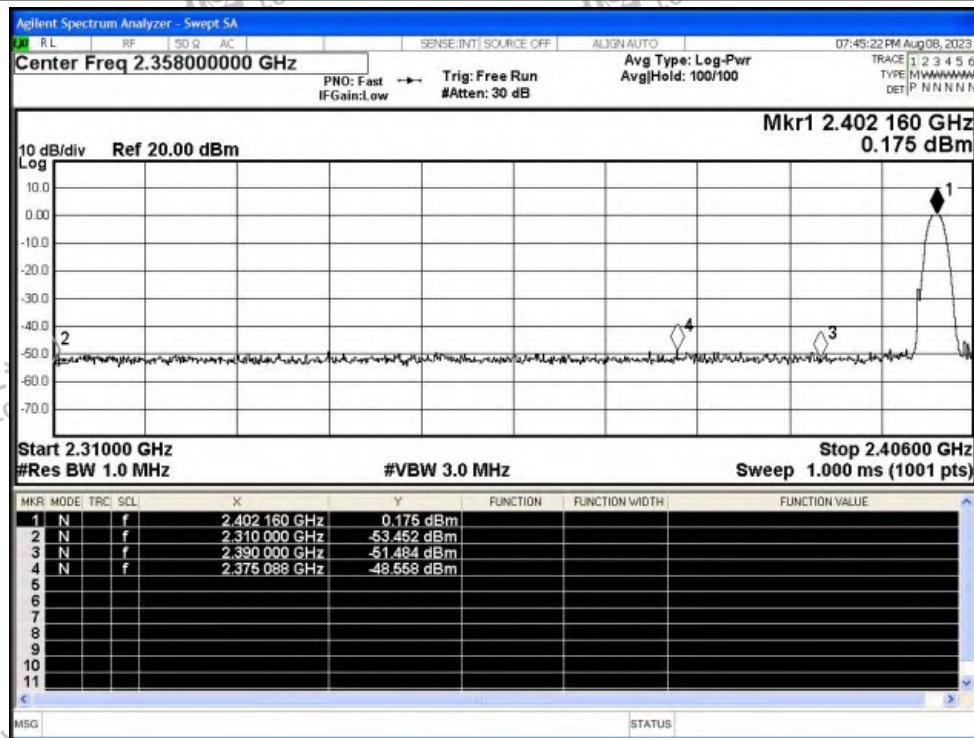


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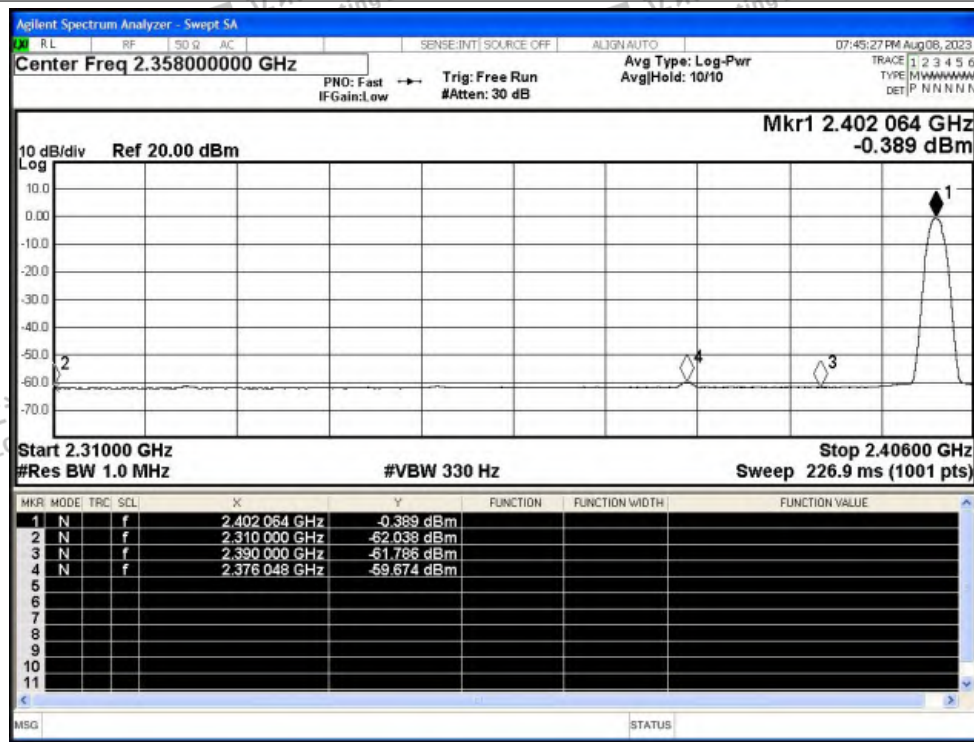


Test Graphs

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

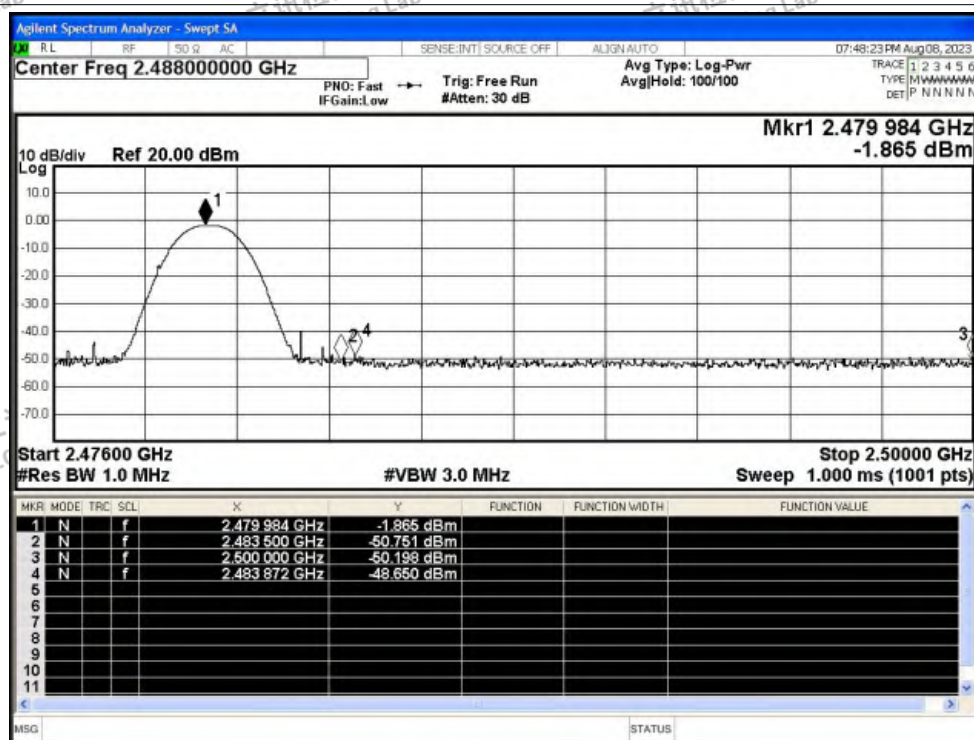


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

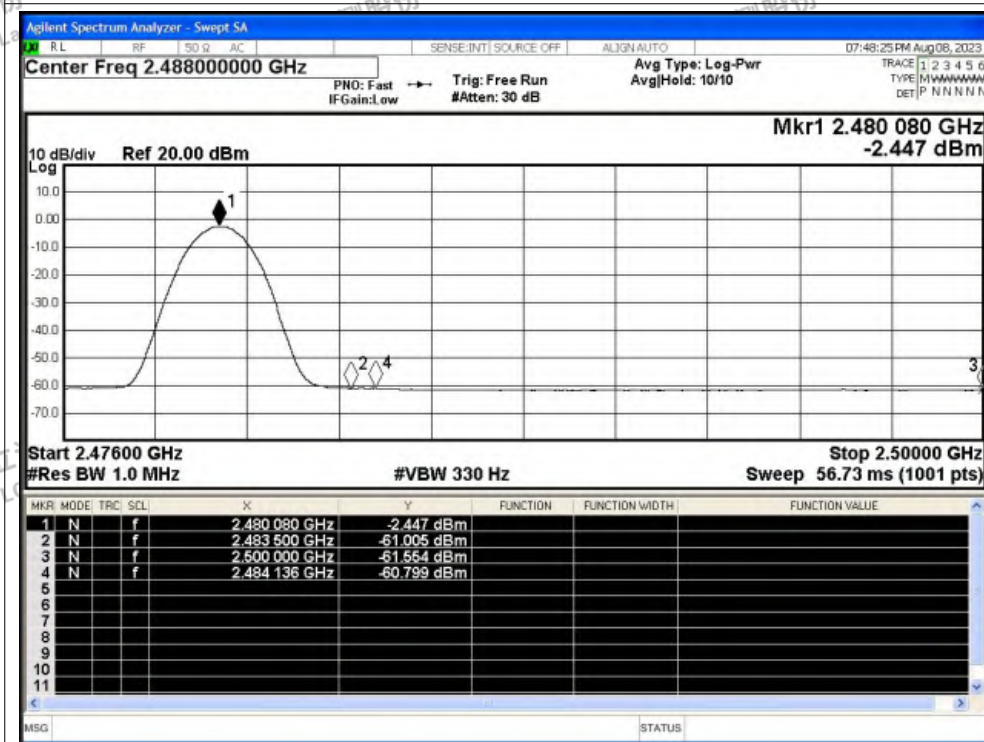




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



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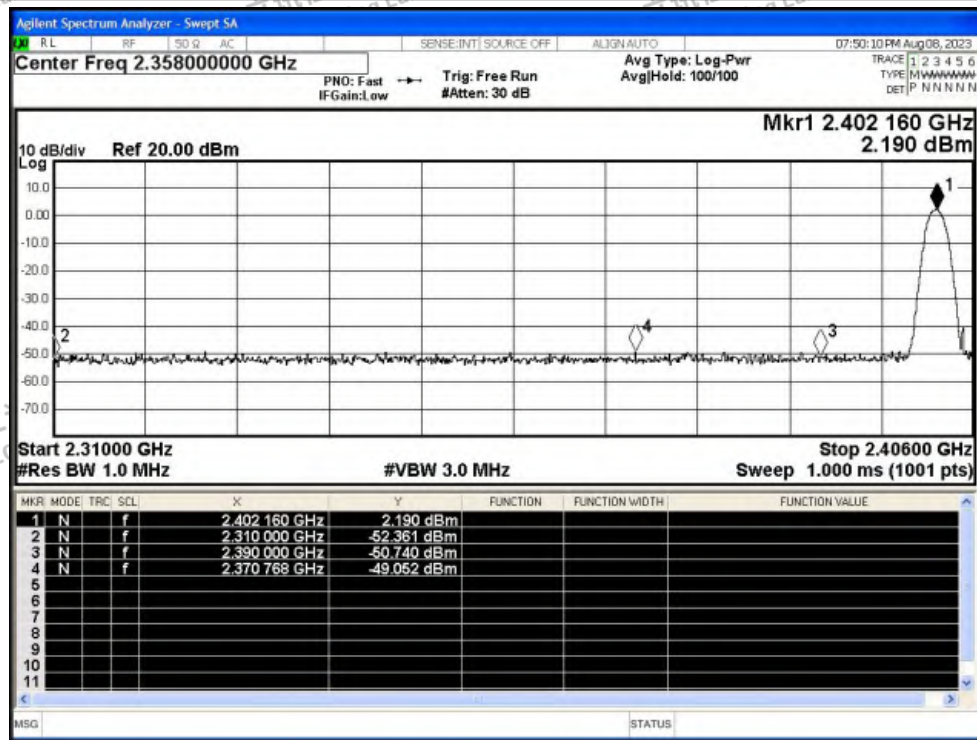
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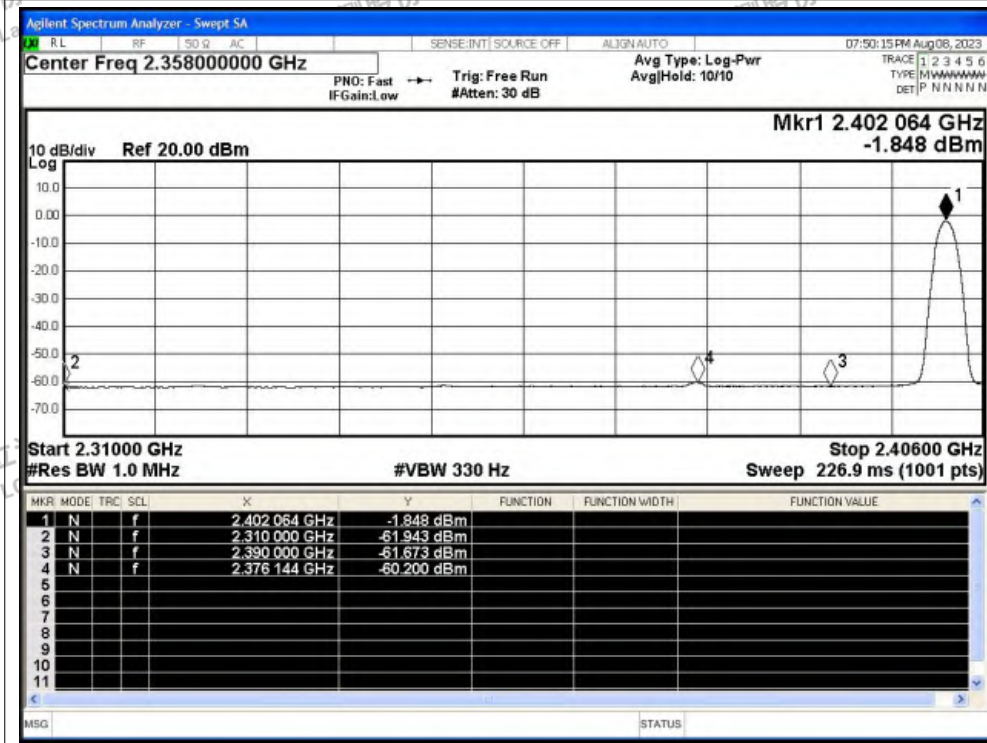
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

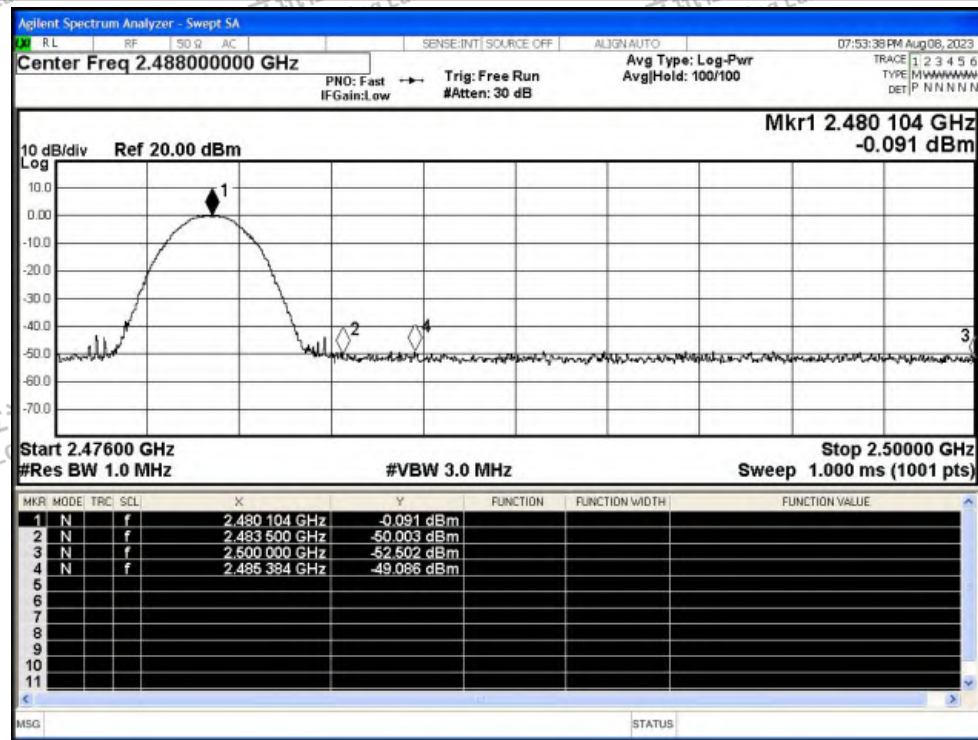
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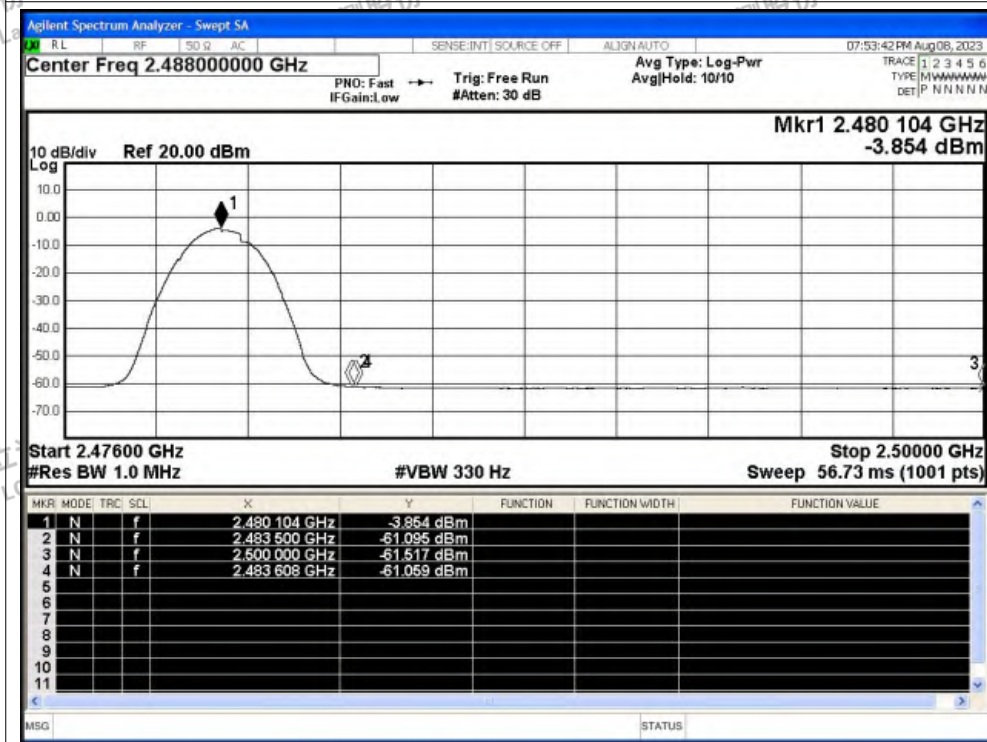
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

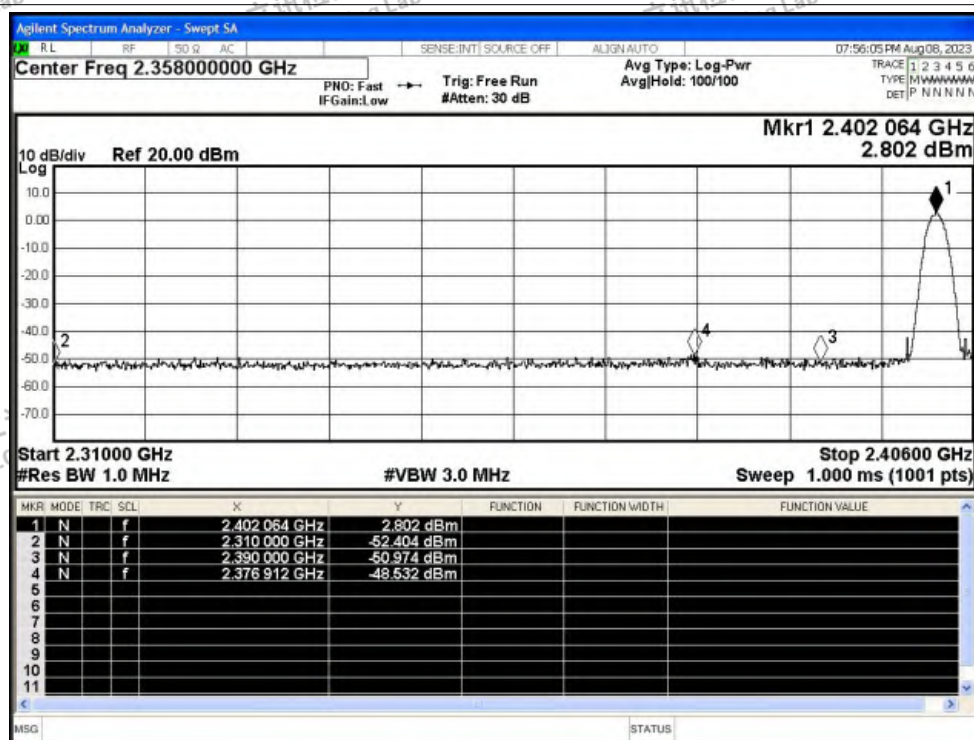
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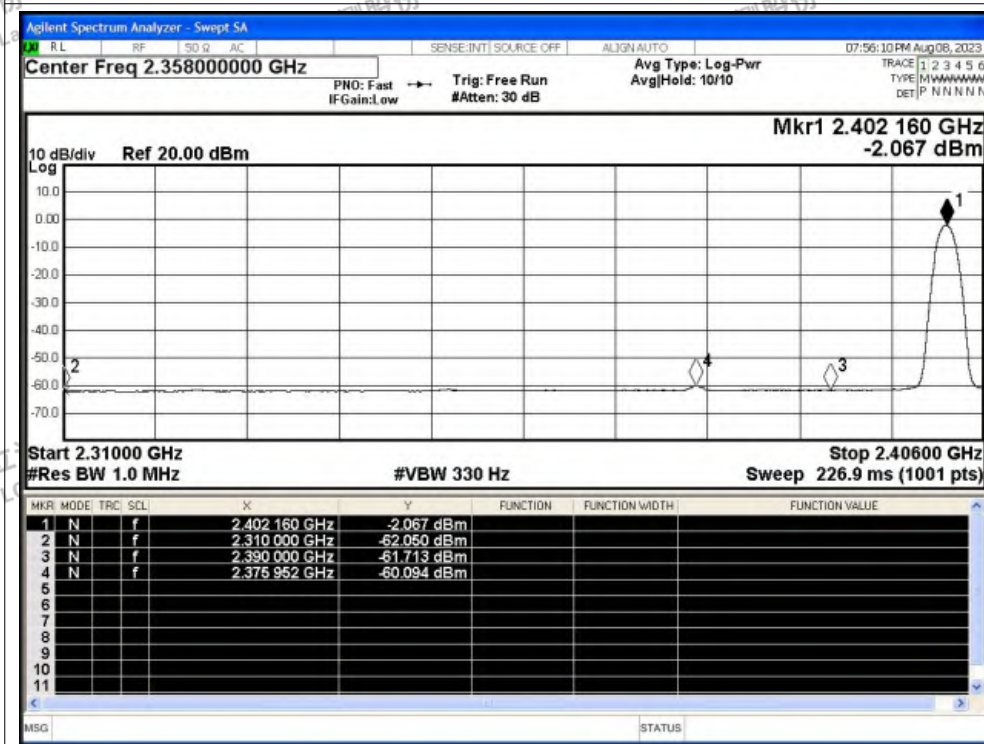
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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



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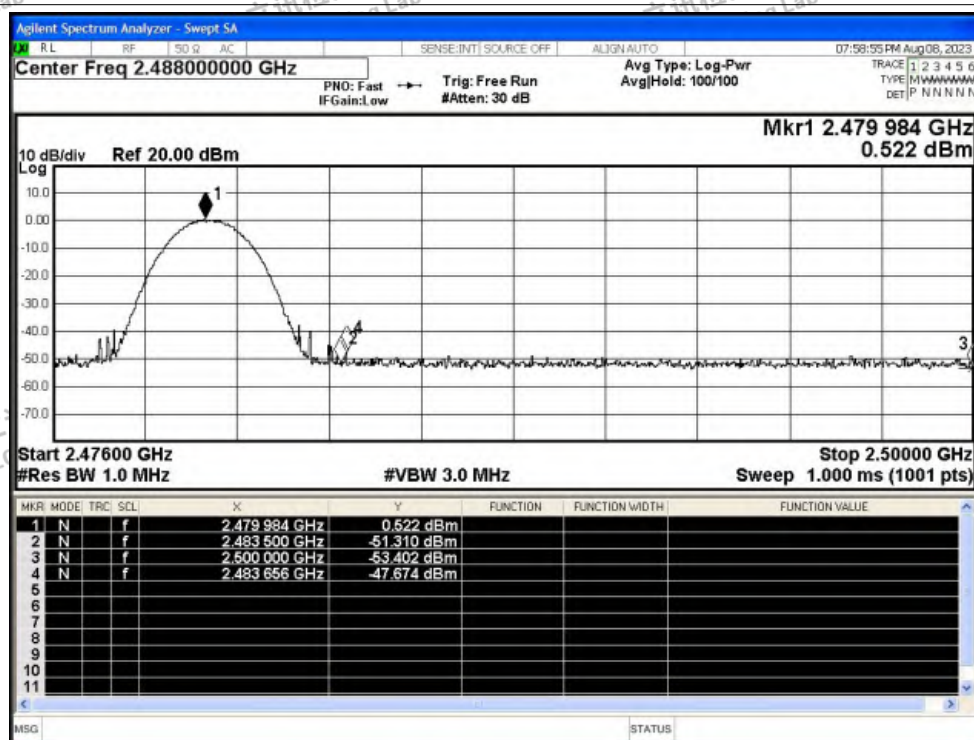
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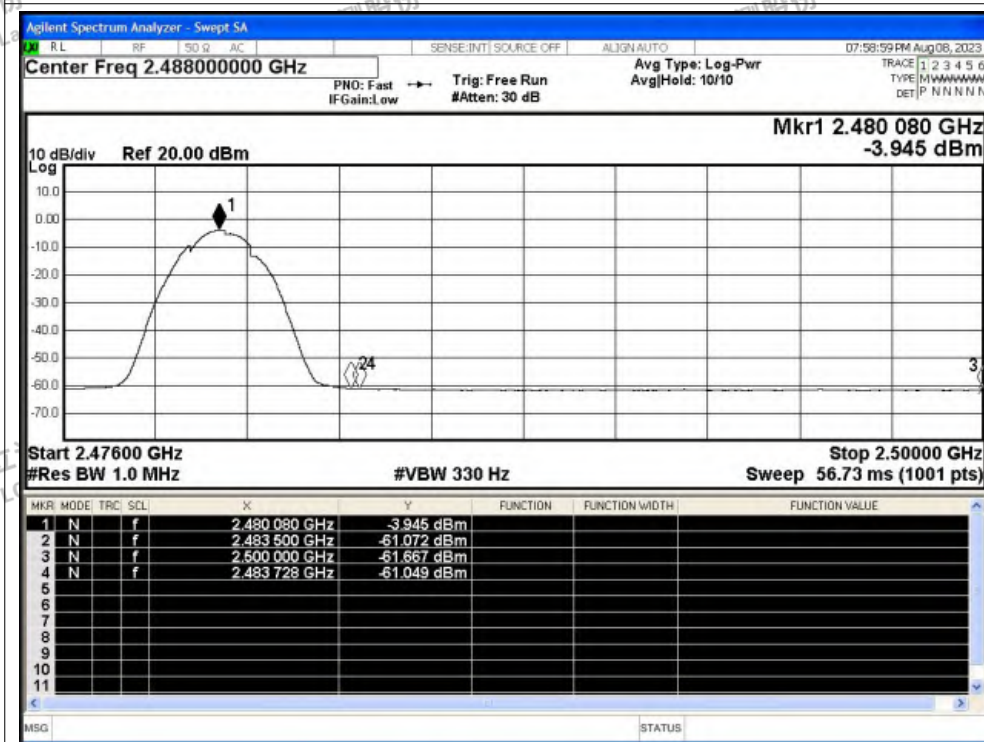
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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