



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Popur X5 Self-Cleaning Litter Box

Test Model: LB02K

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

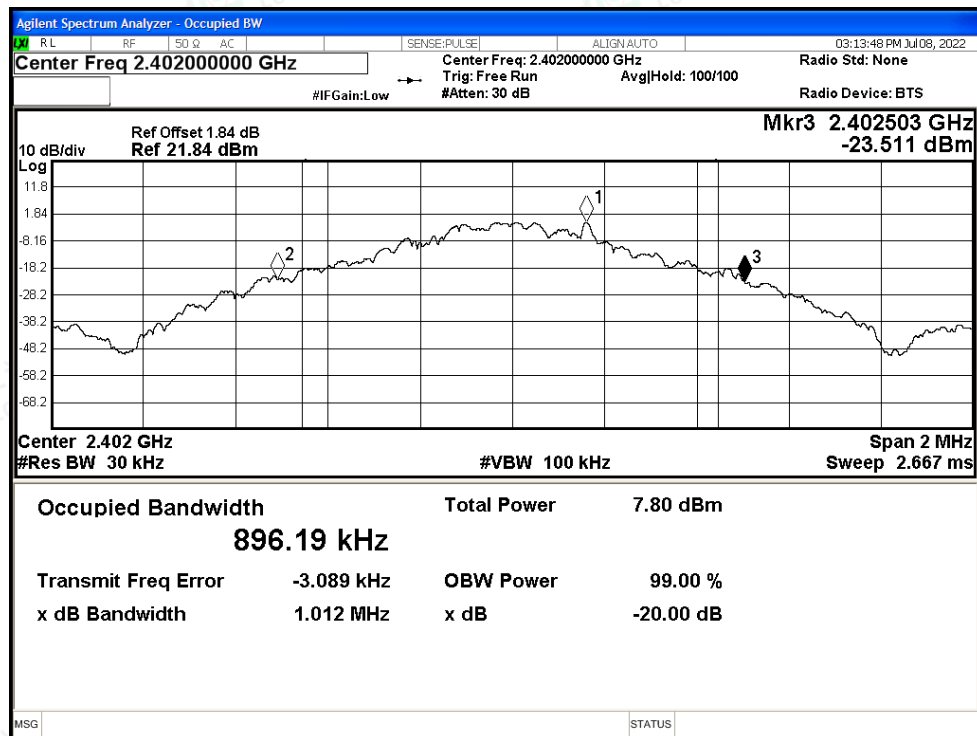
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant	1.012	Pass
NVNT	1-DH5	2441	Ant	1.015	Pass
NVNT	1-DH5	2480	Ant	1.014	Pass
NVNT	2-DH5	2402	Ant	1.284	Pass
NVNT	2-DH5	2441	Ant	1.274	Pass
NVNT	2-DH5	2480	Ant	1.317	Pass
NVNT	3-DH5	2402	Ant	1.288	Pass
NVNT	3-DH5	2441	Ant	1.272	Pass
NVNT	3-DH5	2480	Ant	1.301	Pass



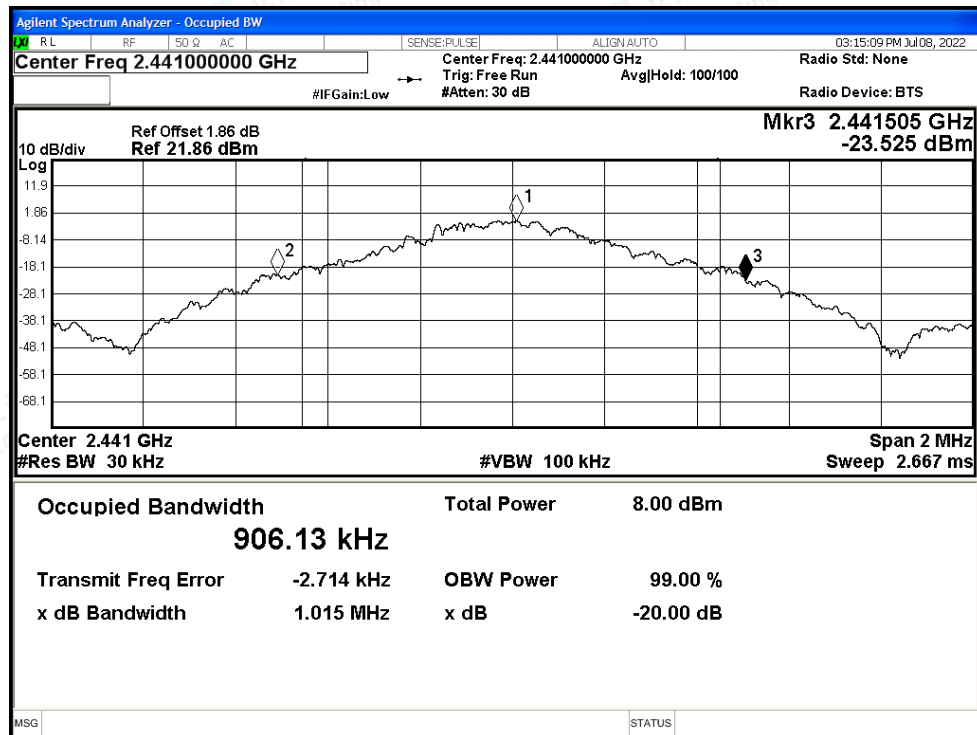


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant



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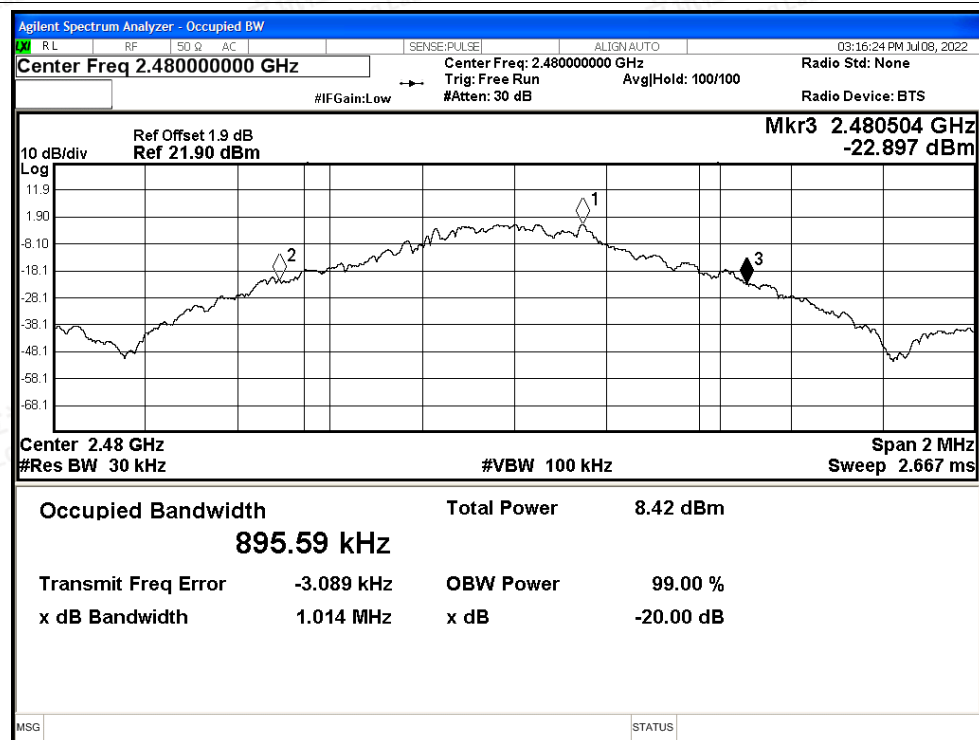
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

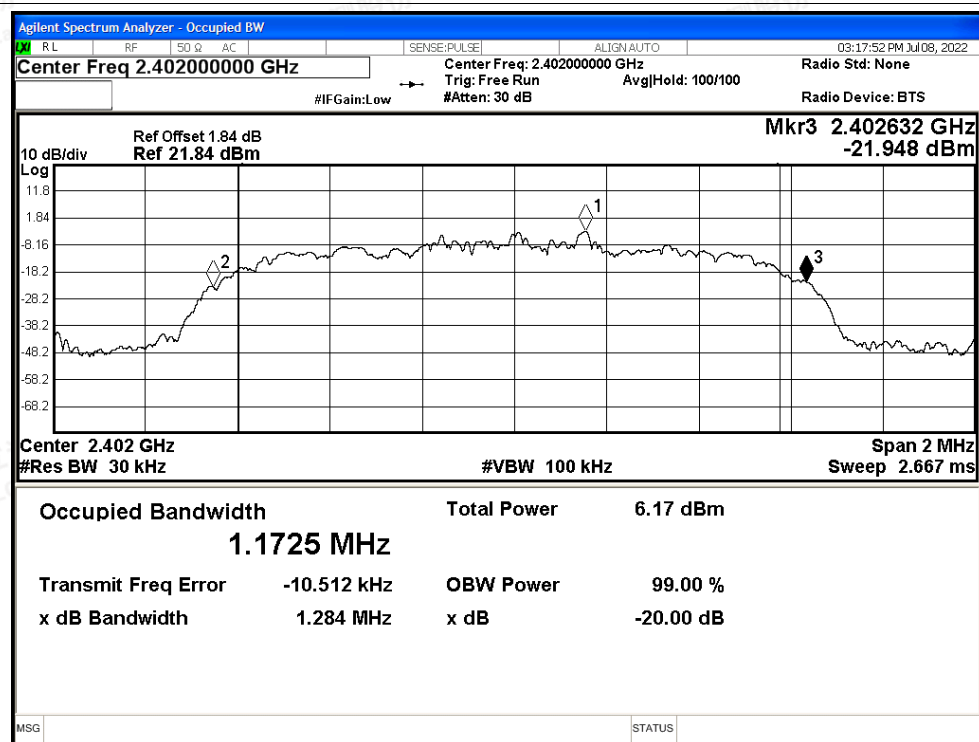
Scan code to check authenticity



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

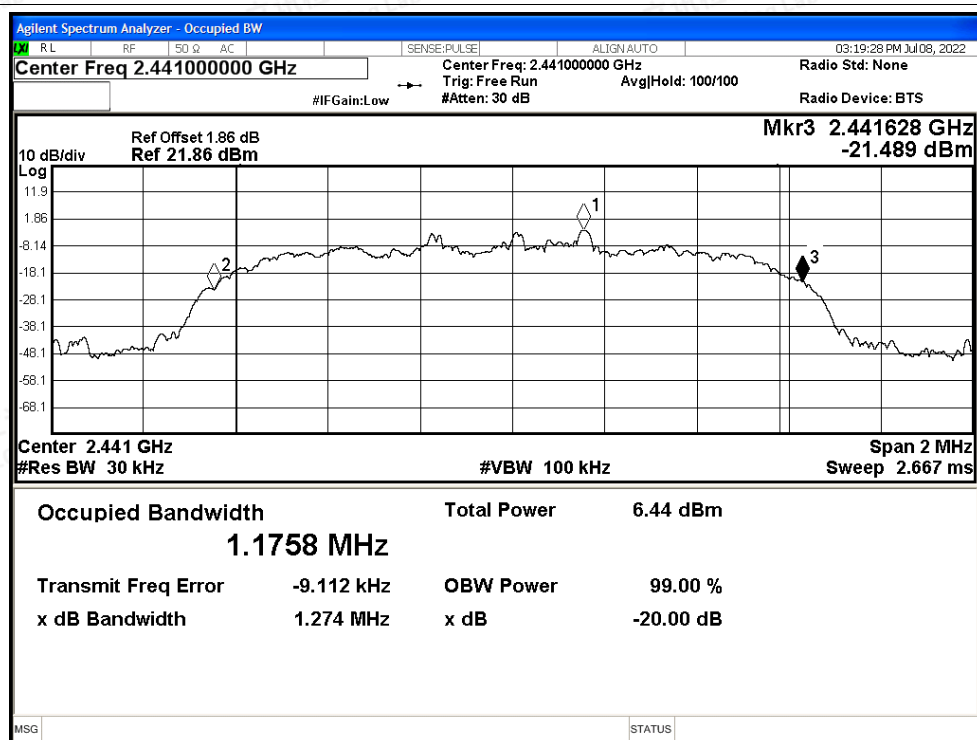
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

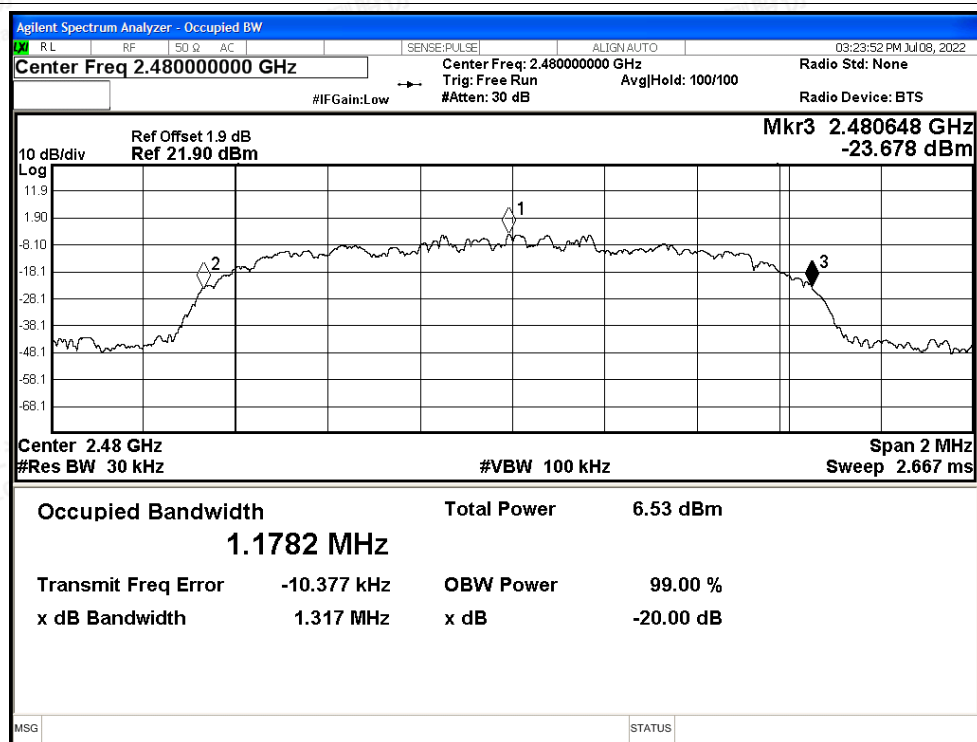
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

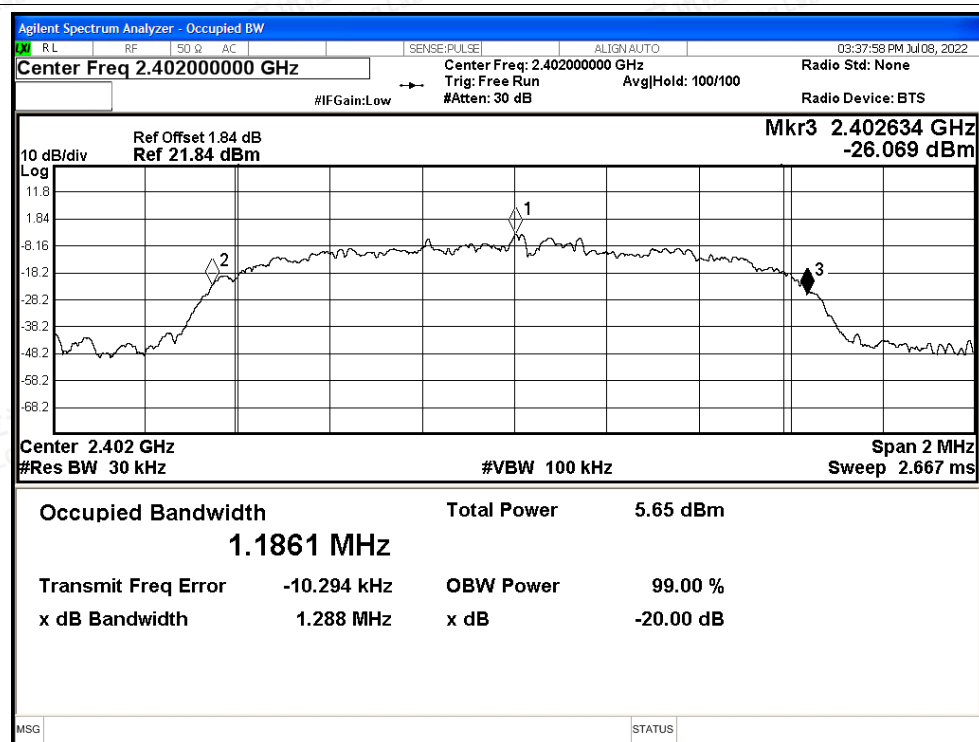
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

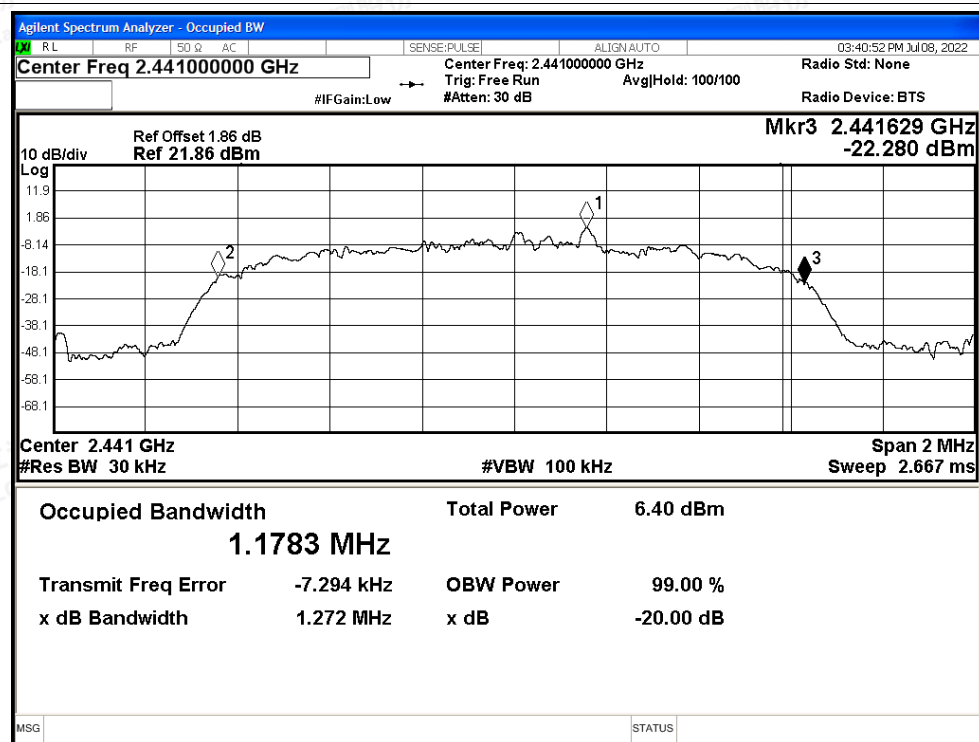
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant

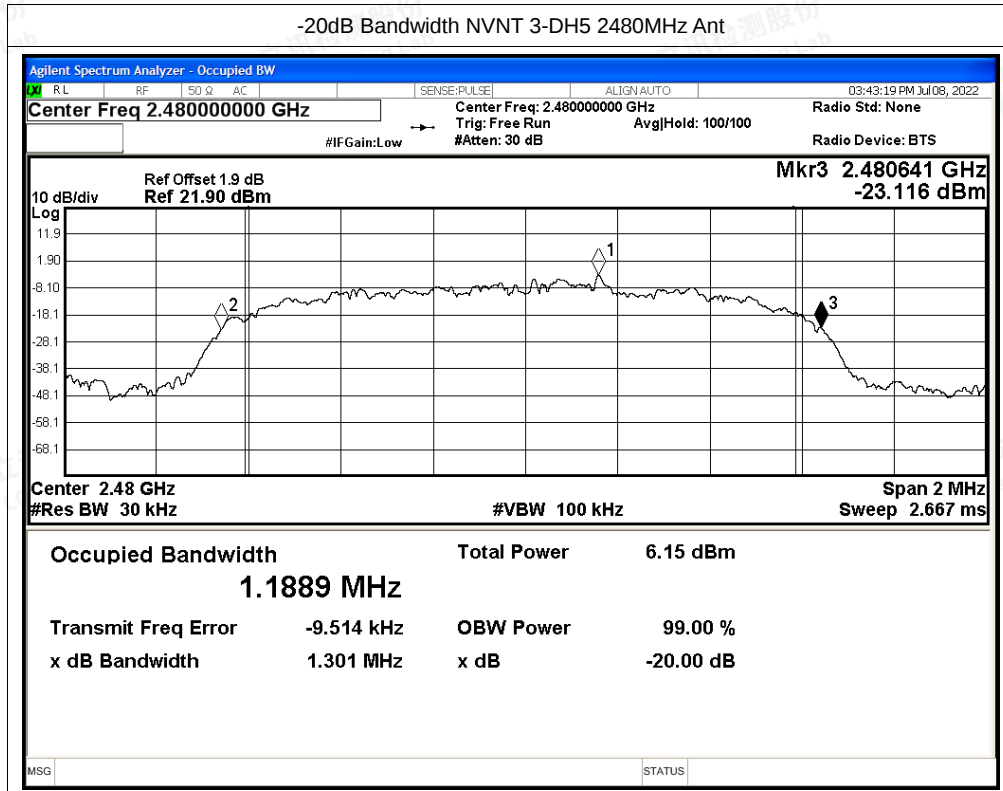


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A.2 Maximum Peak Conducted Output Power

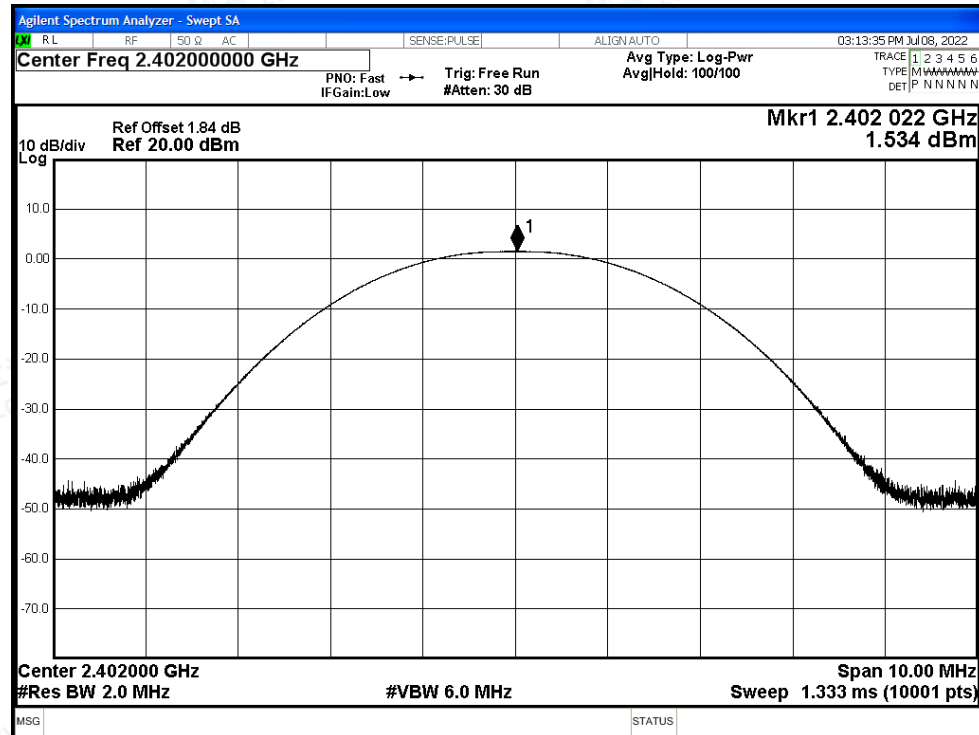
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant	1.53	21	Pass
NVNT	1-DH5	2441	Ant	1.87	21	Pass
NVNT	1-DH5	2480	Ant	2.00	21	Pass
NVNT	2-DH5	2402	Ant	1.27	21	Pass
NVNT	2-DH5	2441	Ant	1.65	21	Pass
NVNT	2-DH5	2480	Ant	1.77	21	Pass
NVNT	3-DH5	2402	Ant	1.34	21	Pass
NVNT	3-DH5	2441	Ant	1.68	21	Pass
NVNT	3-DH5	2480	Ant	1.84	21	Pass



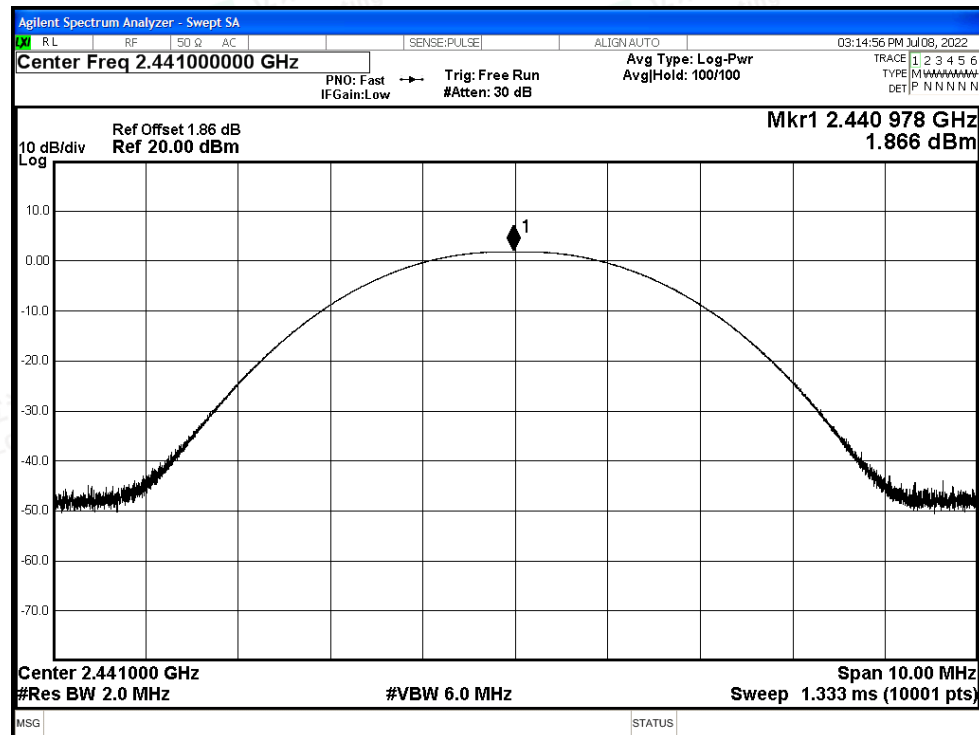


Test Graphs

Power NVNT 1-DH5 2402MHz Ant



Power NVNT 1-DH5 2441MHz Ant



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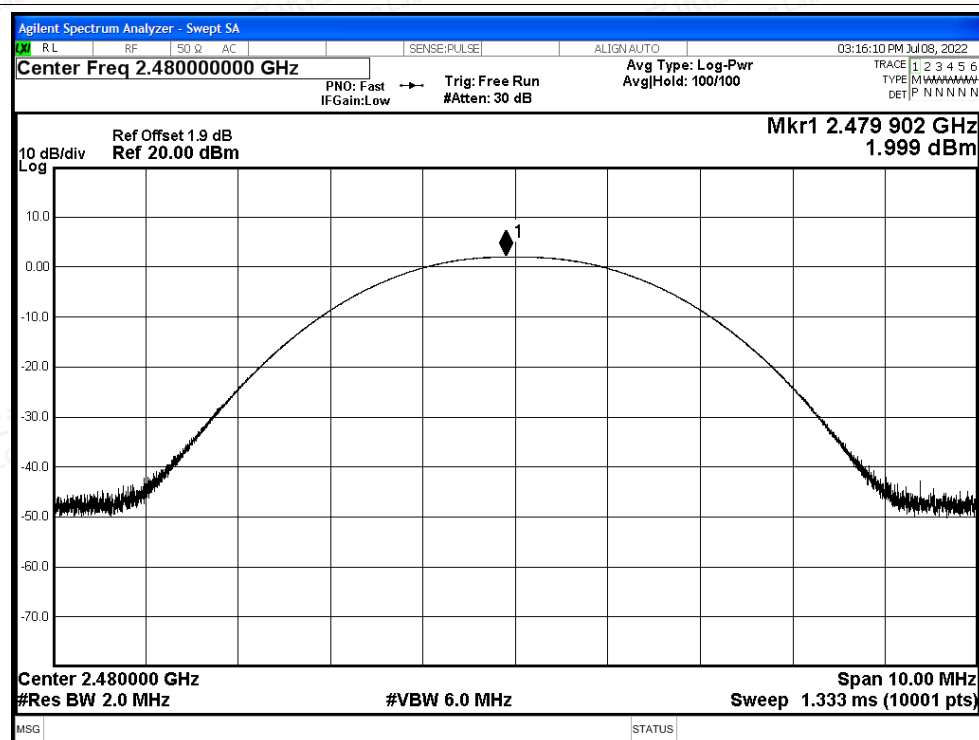
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

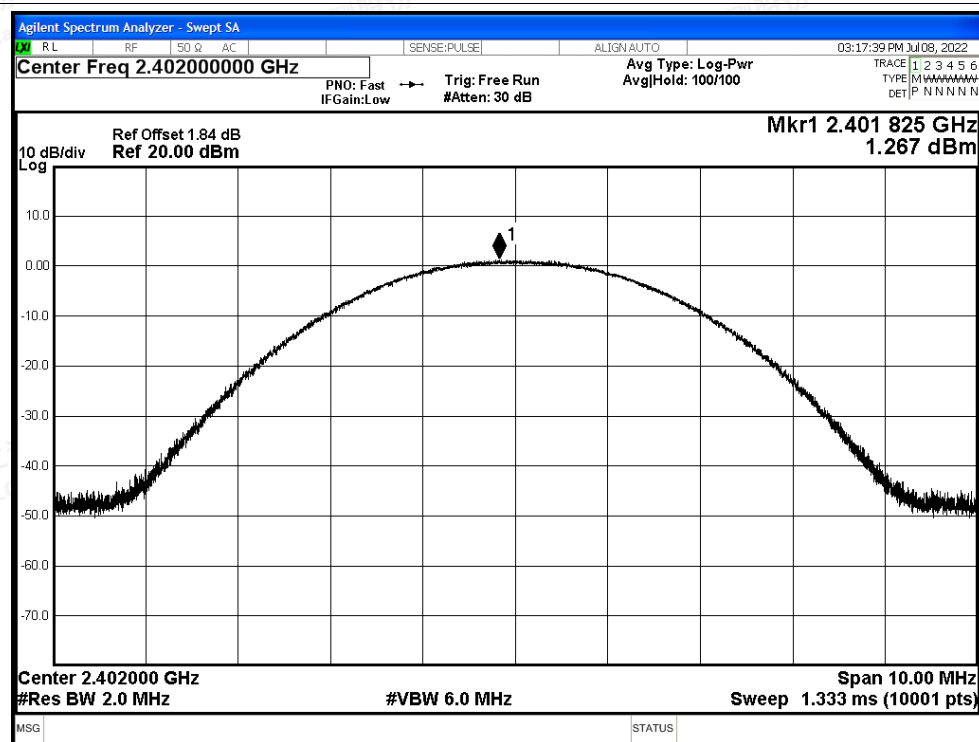
Scan code to check authenticity



Power NVNT 1-DH5 2480MHz Ant



Power NVNT 2-DH5 2402MHz Ant

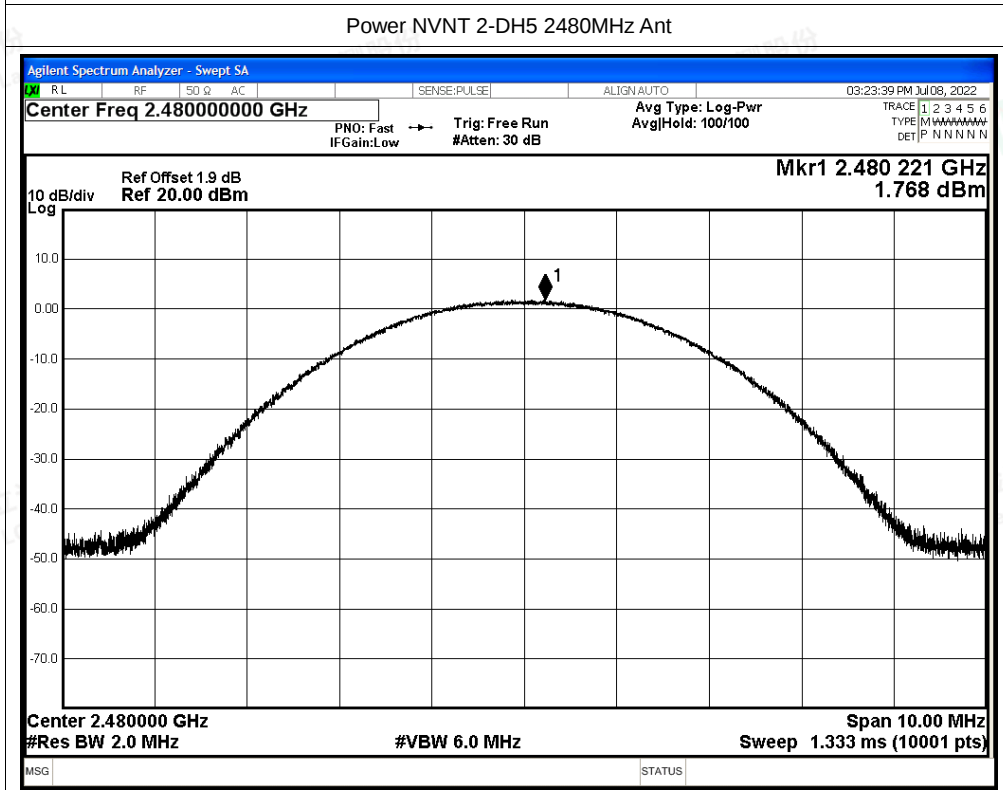
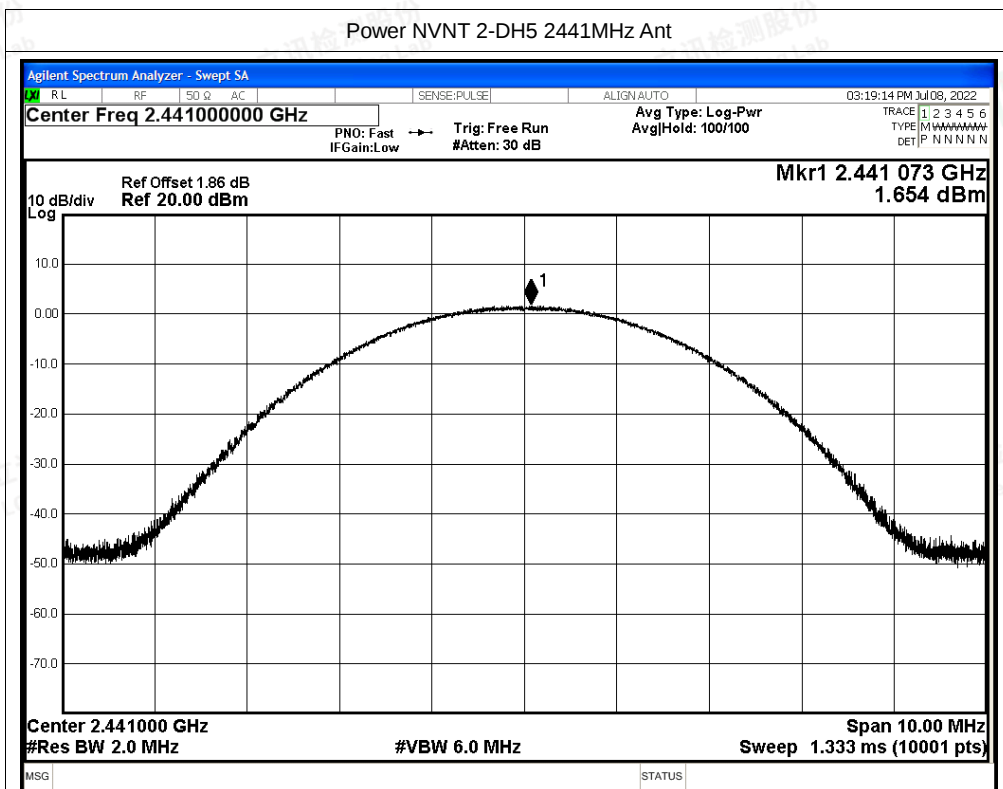


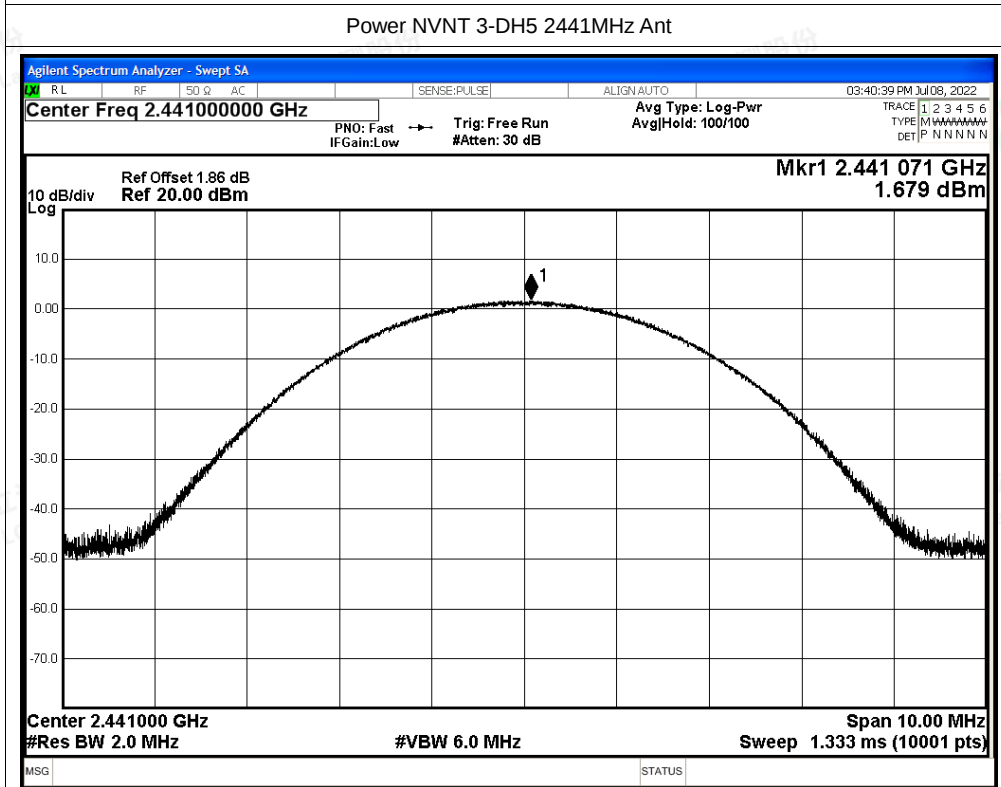
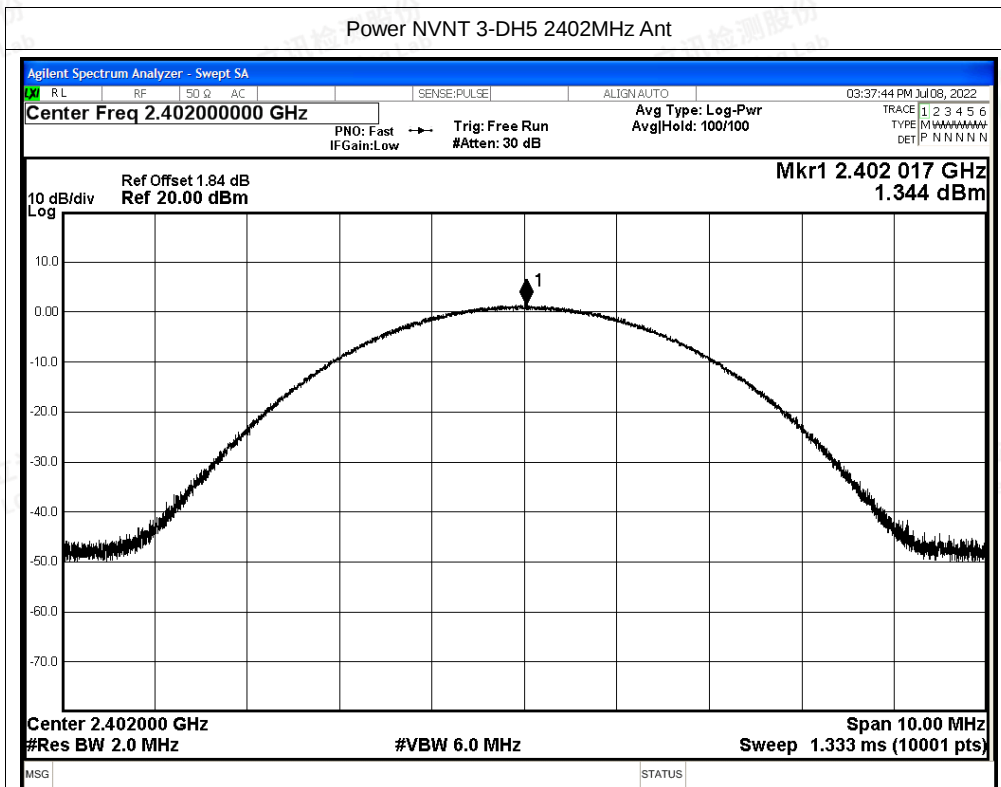
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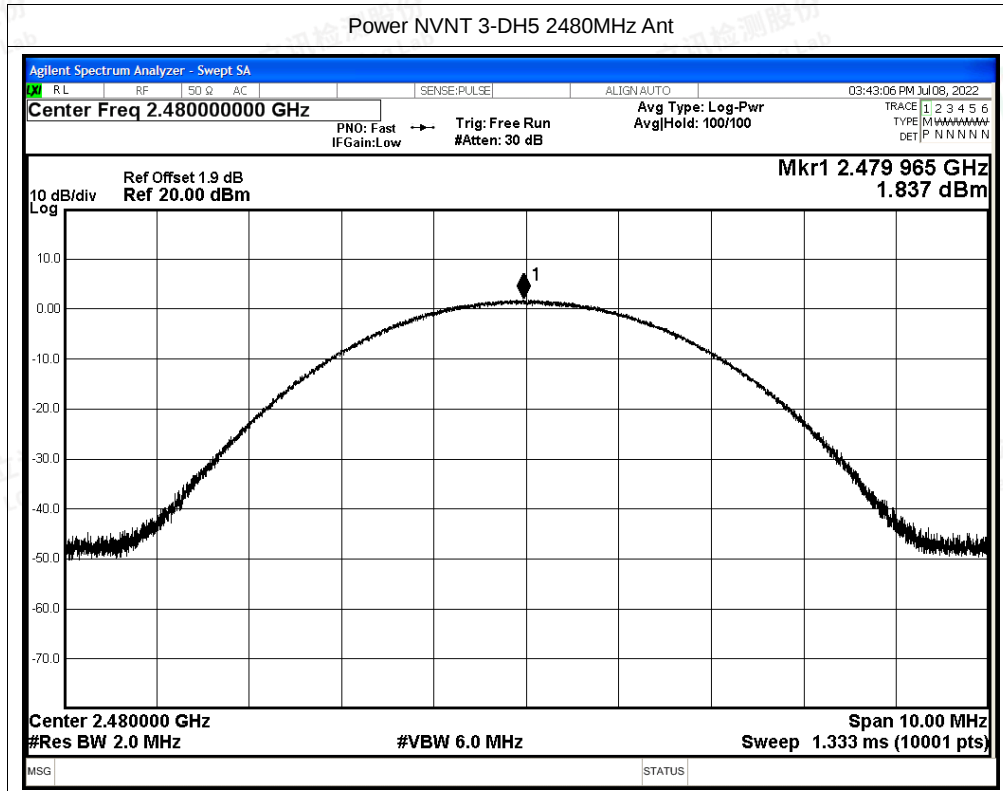


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant	2401.964	2403.008	1.044	0.677	Pass
NVNT	2-DH5	Ant	2402.006	2403.002	0.996	0.878	Pass
NVNT	3-DH5	Ant	2402.162	2403.15	0.988	0.867	Pass

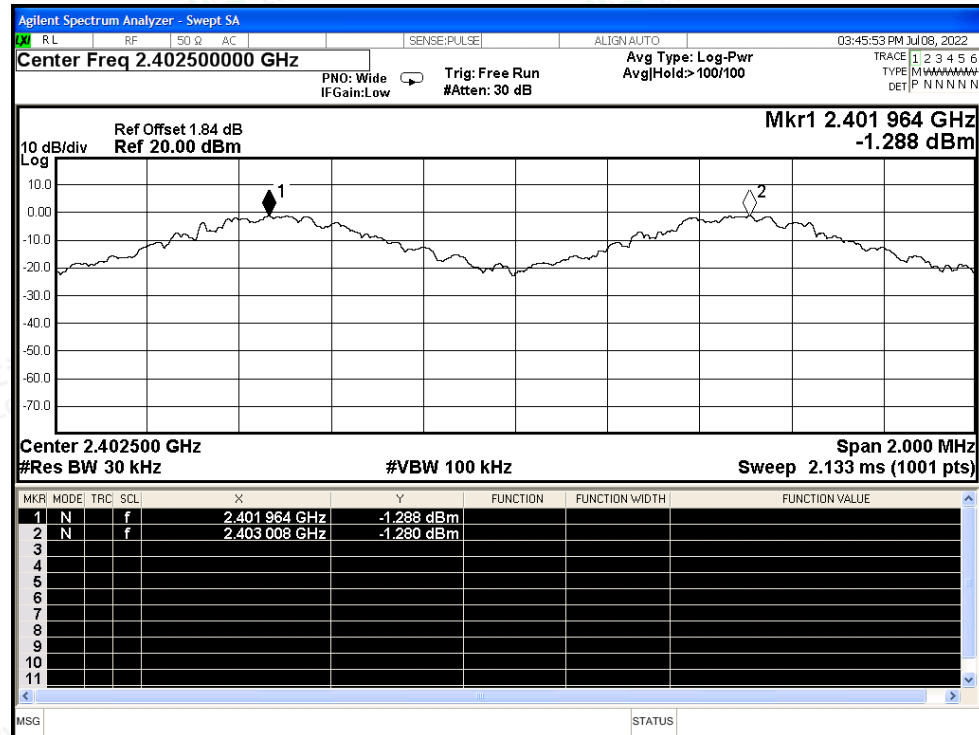


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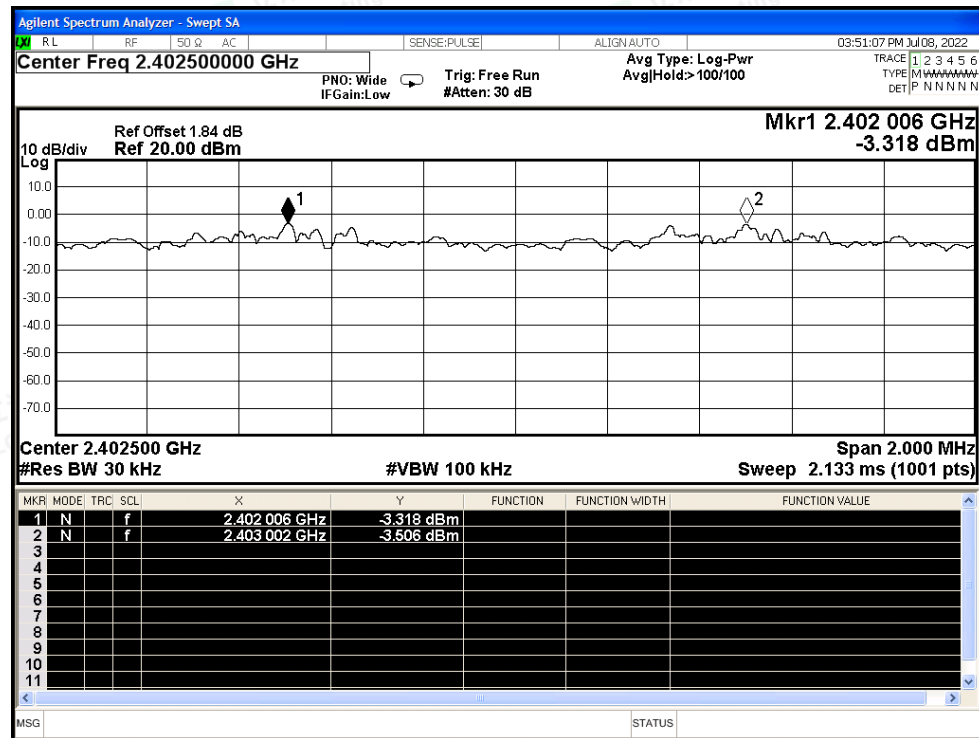


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant



CFS NVNT 2-DH5 2402MHz Ant

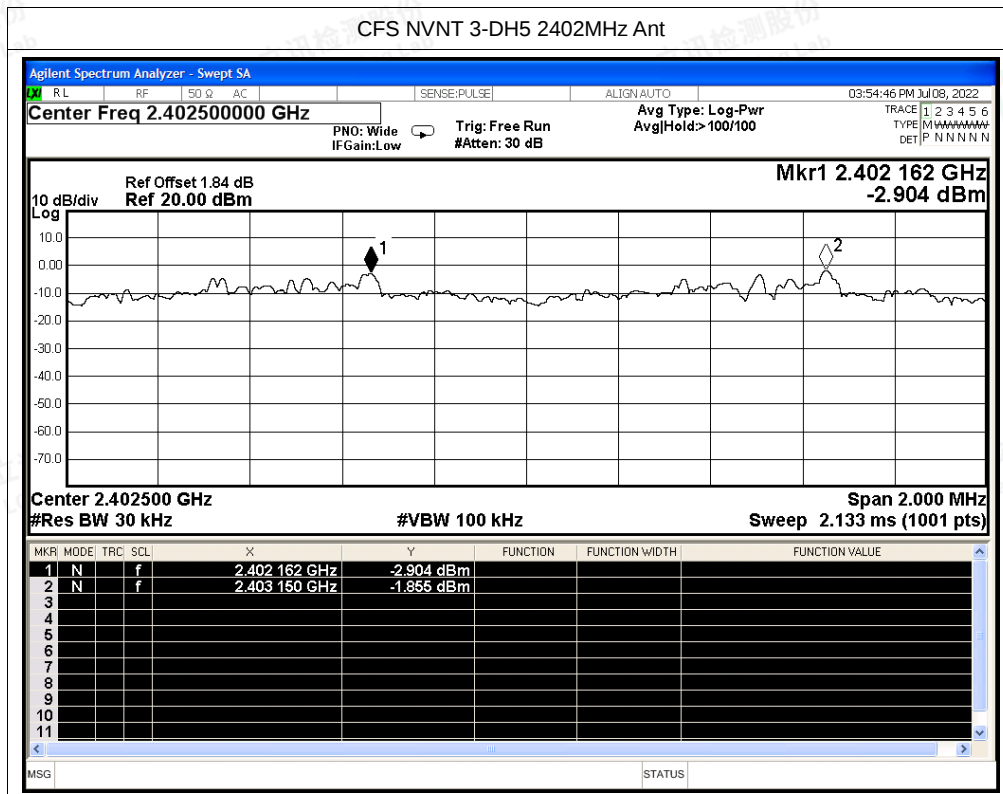


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A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant	2.882	296.846	103	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.885	311.58	108	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.886	277.056	96	31600	400	Pass

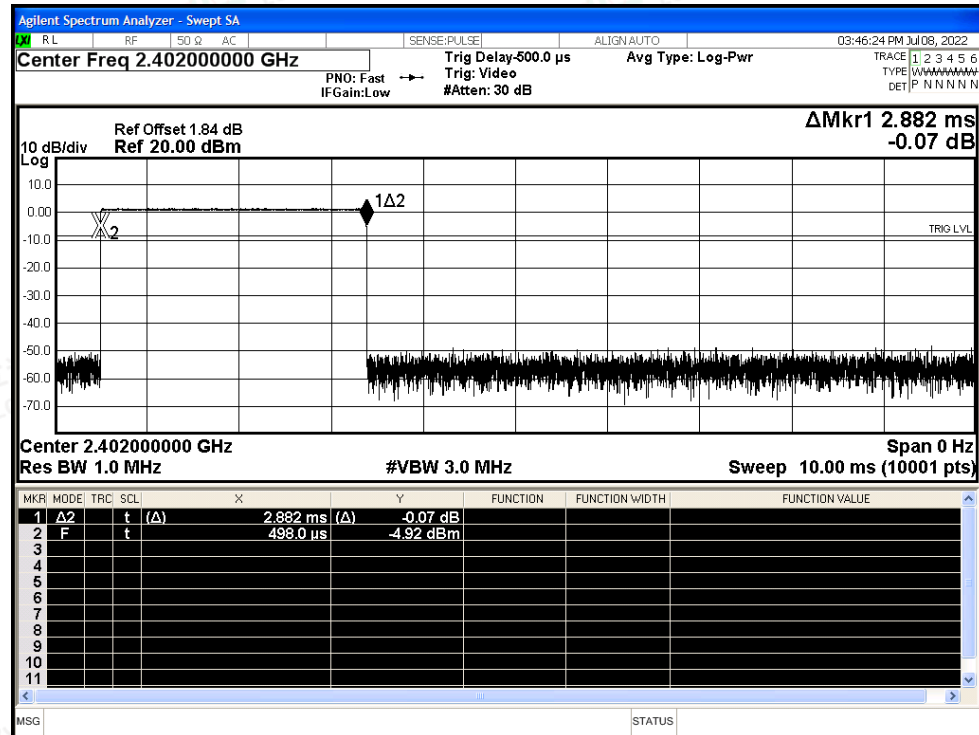


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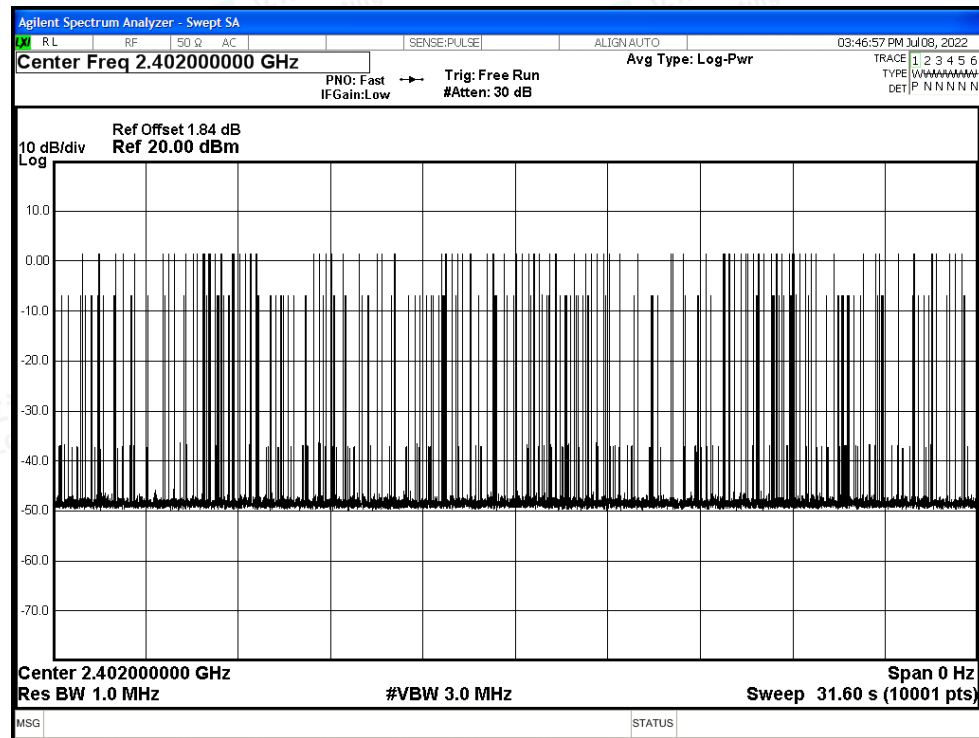


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant One Burst



Dwell NVNT 1-DH5 2402MHz Ant Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

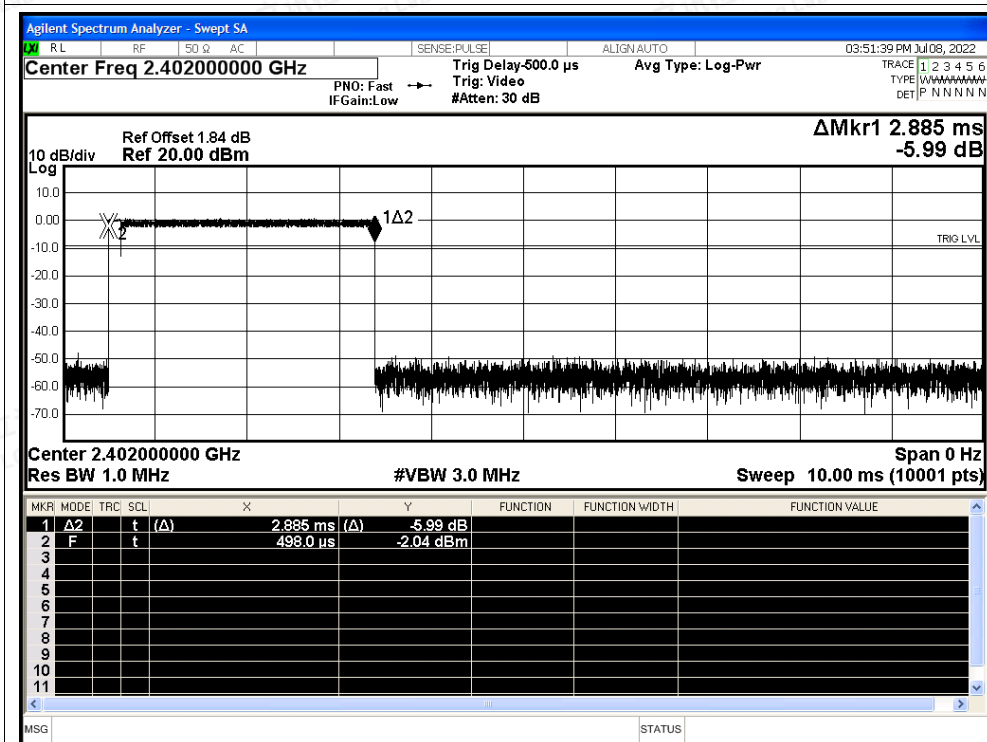
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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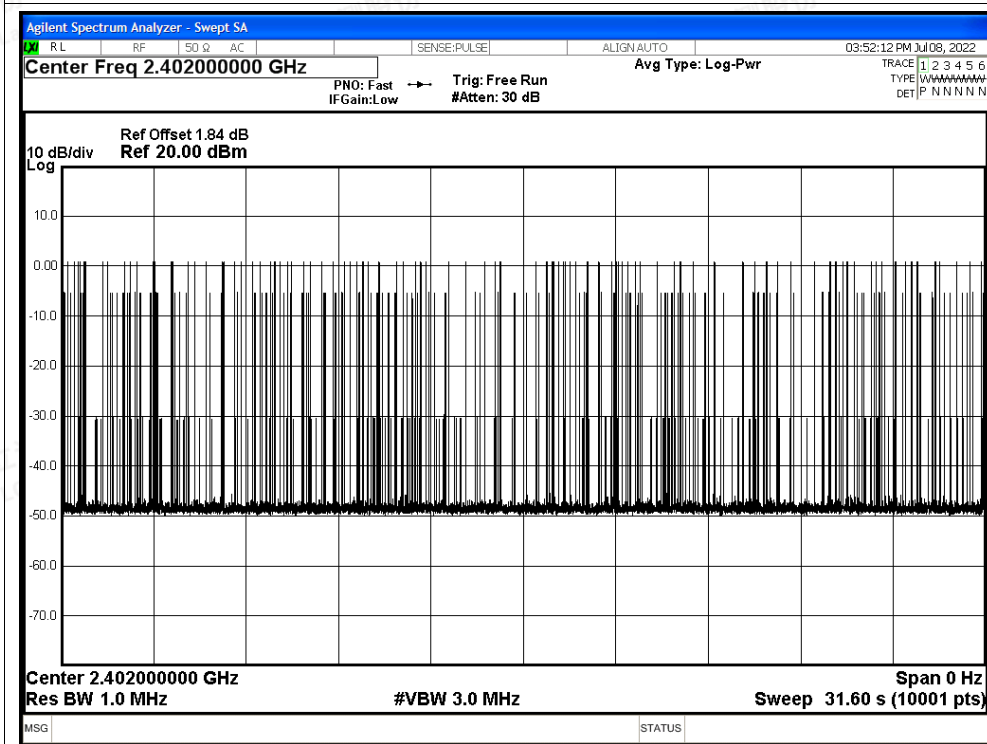
Scan code to check authenticity



Dwell NVNT 2-DH5 2402MHz Ant One Burst

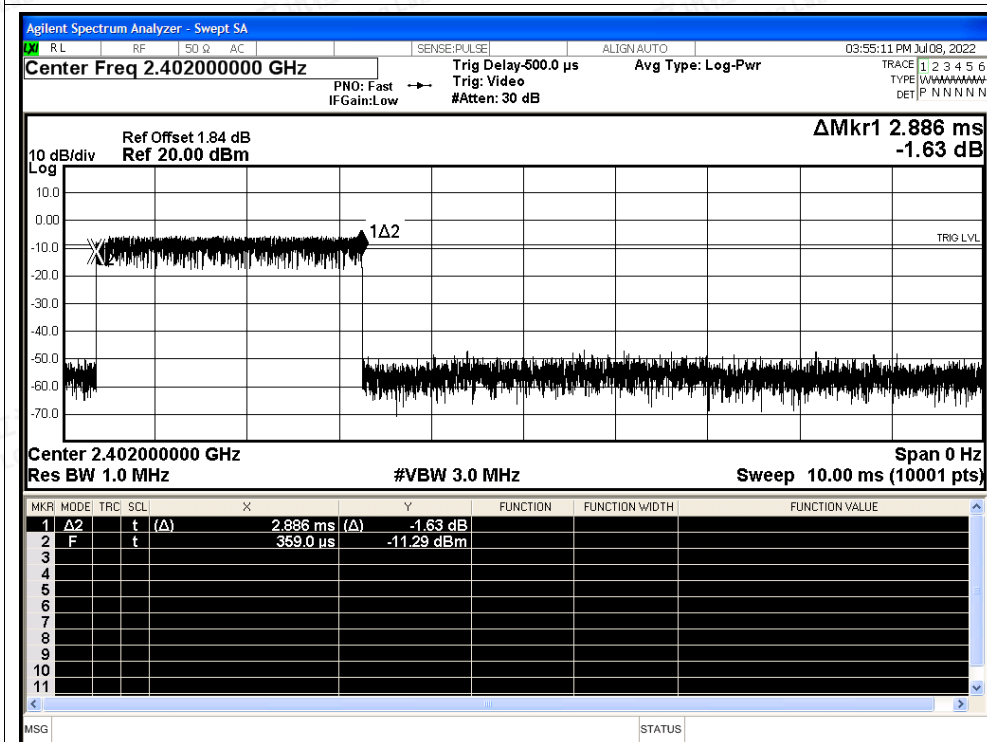


Dwell NVNT 2-DH5 2402MHz Ant Accumulated

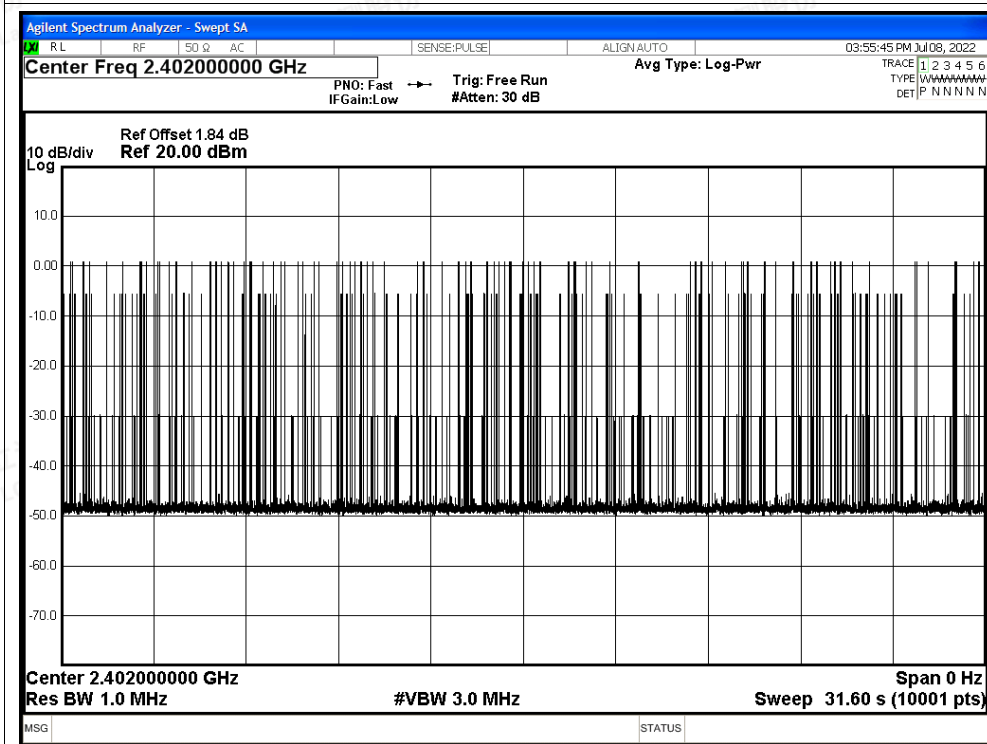




Dwell NVNT 3-DH5 2402MHz Ant One Burst



Dwell NVNT 3-DH5 2402MHz Ant Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

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A.5 Number of Hopping Channel

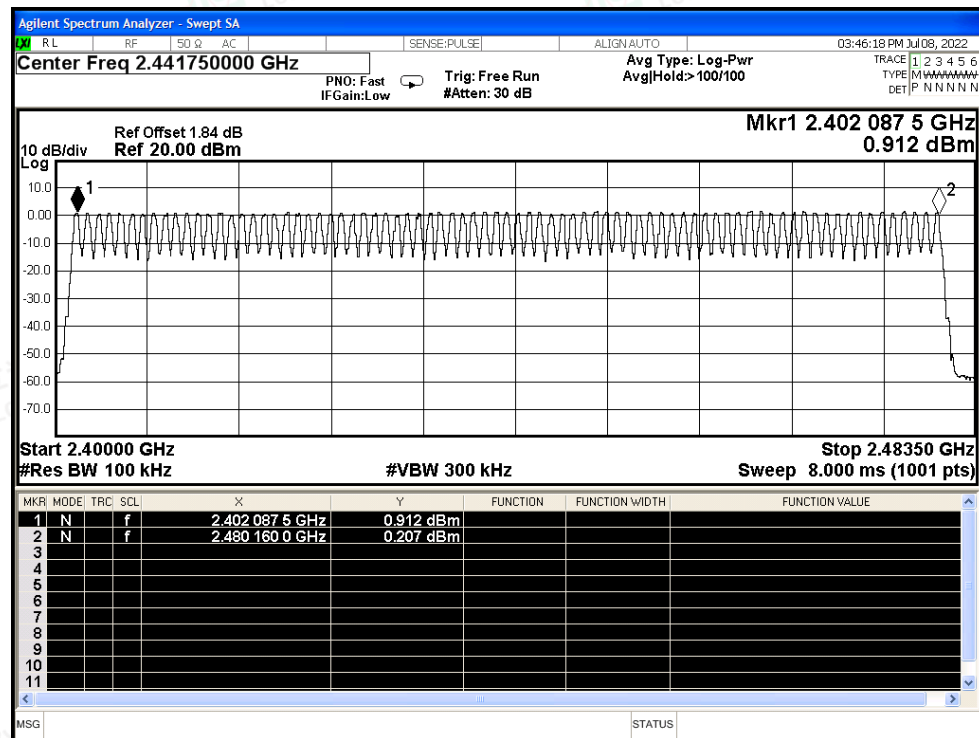
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant	79	15	Pass
NVNT	2-DH5	Ant	79	15	Pass
NVNT	3-DH5	Ant	79	15	Pass



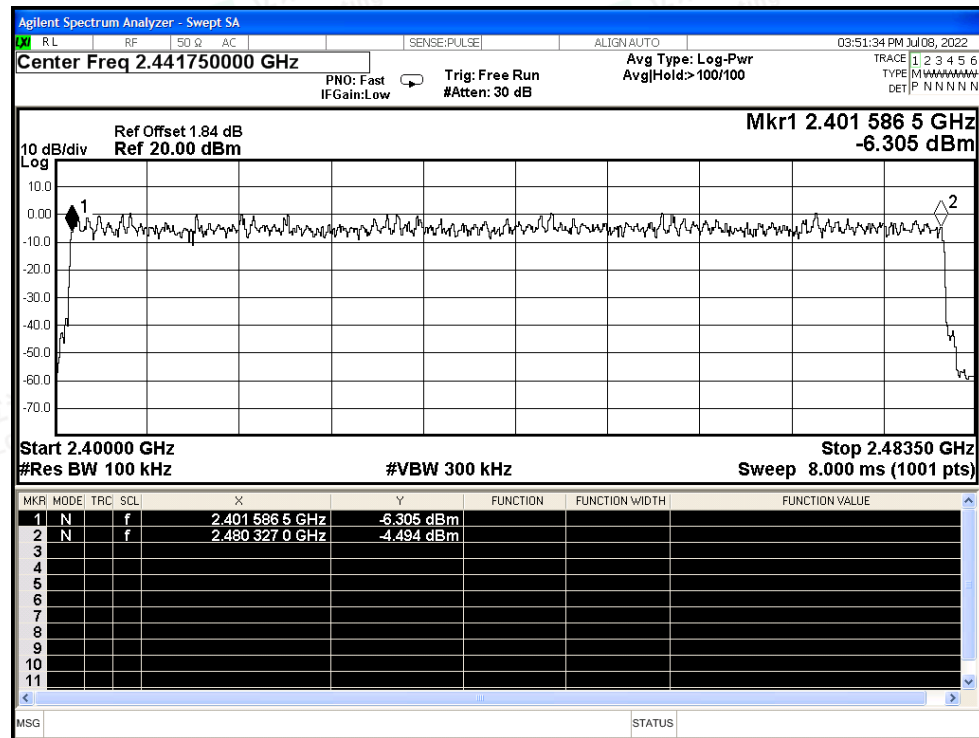


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant



Hopping No. NVNT 2-DH5 2402MHz Ant

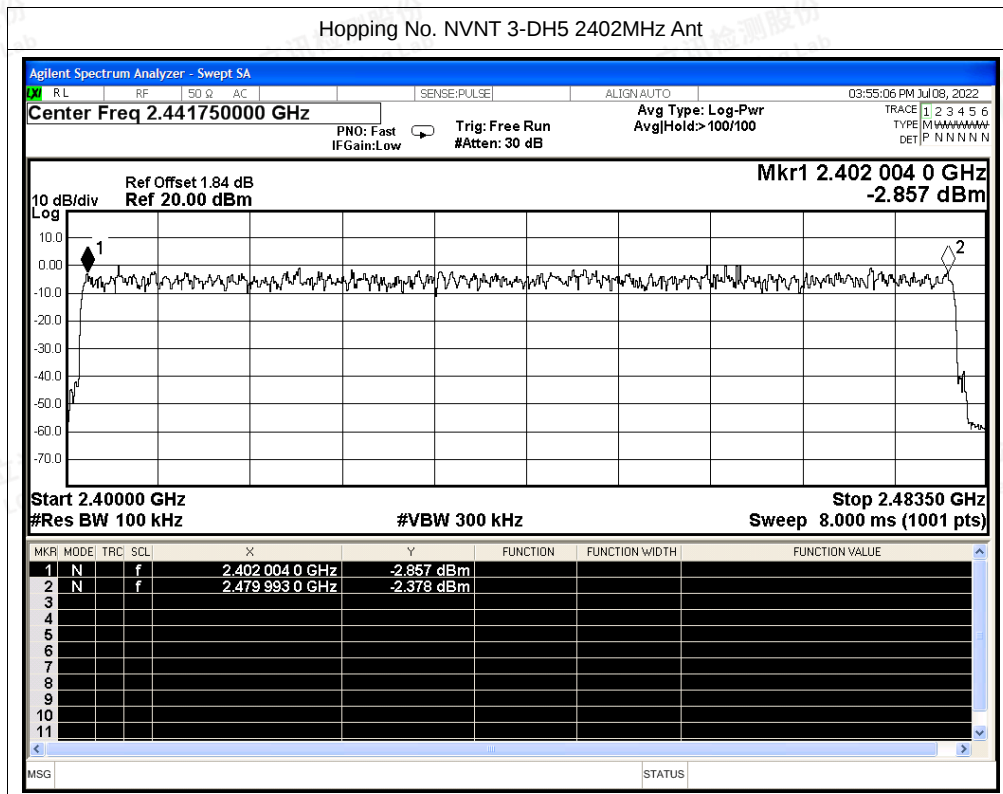


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A.6 Band Edge

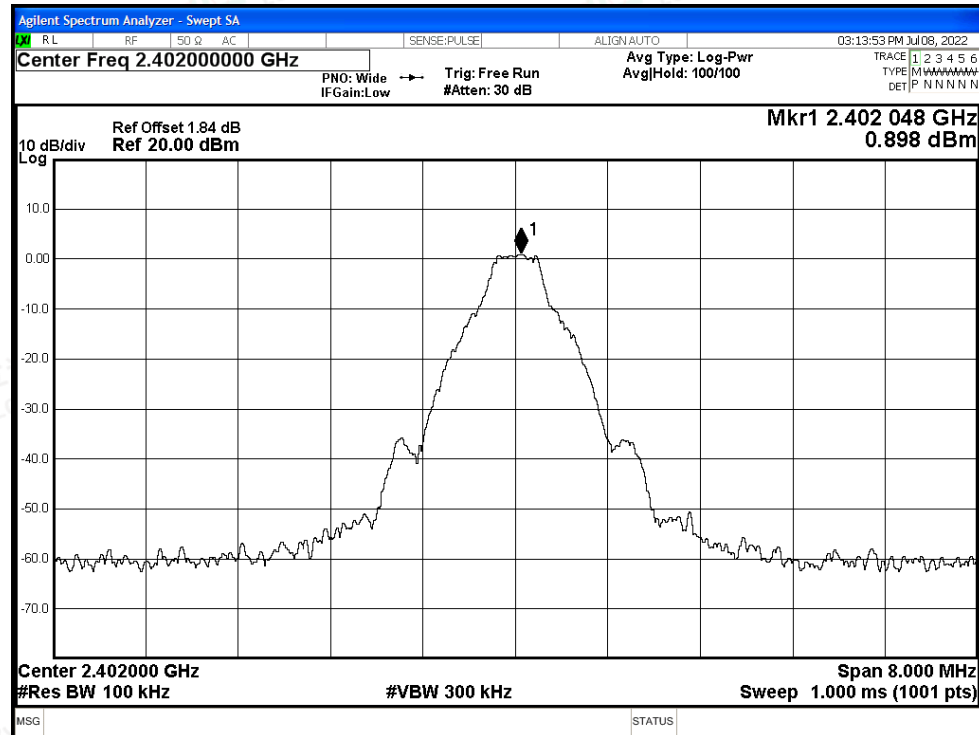
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-55.77	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-58.42	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-51.53	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-57.88	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-54.37	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-56.37	-20	Pass



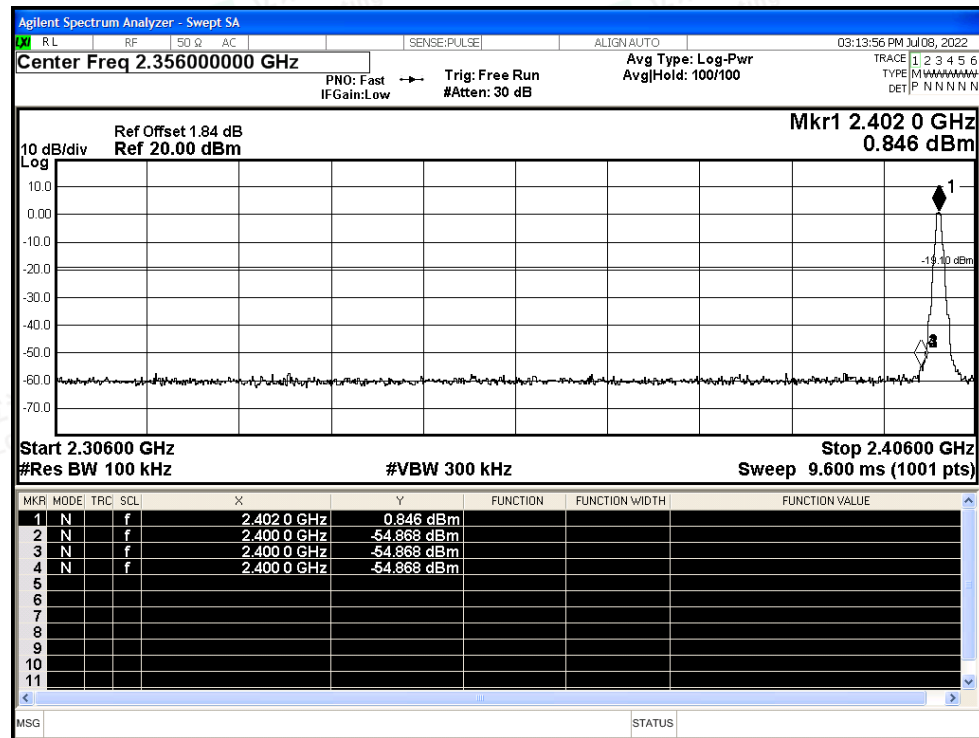


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

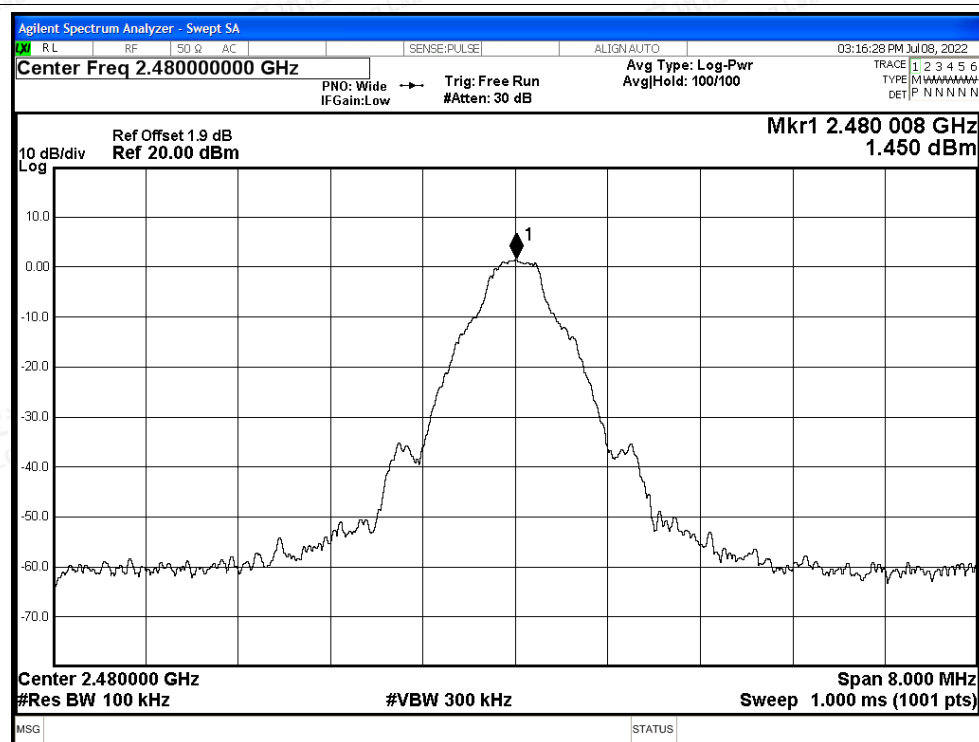
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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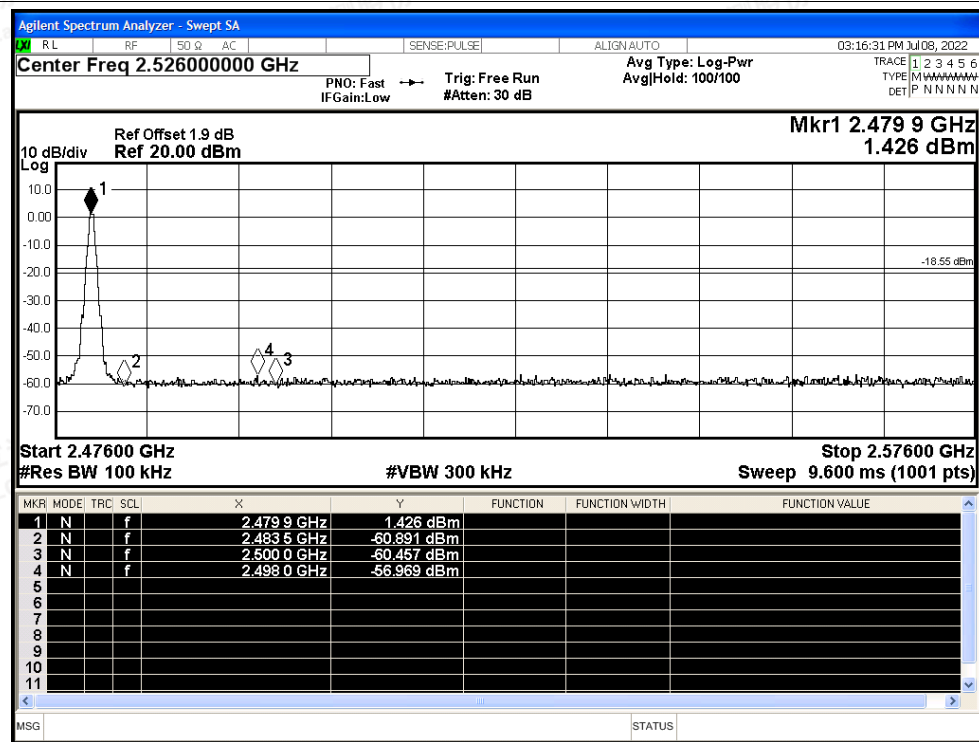
Scan code to check authenticity



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



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



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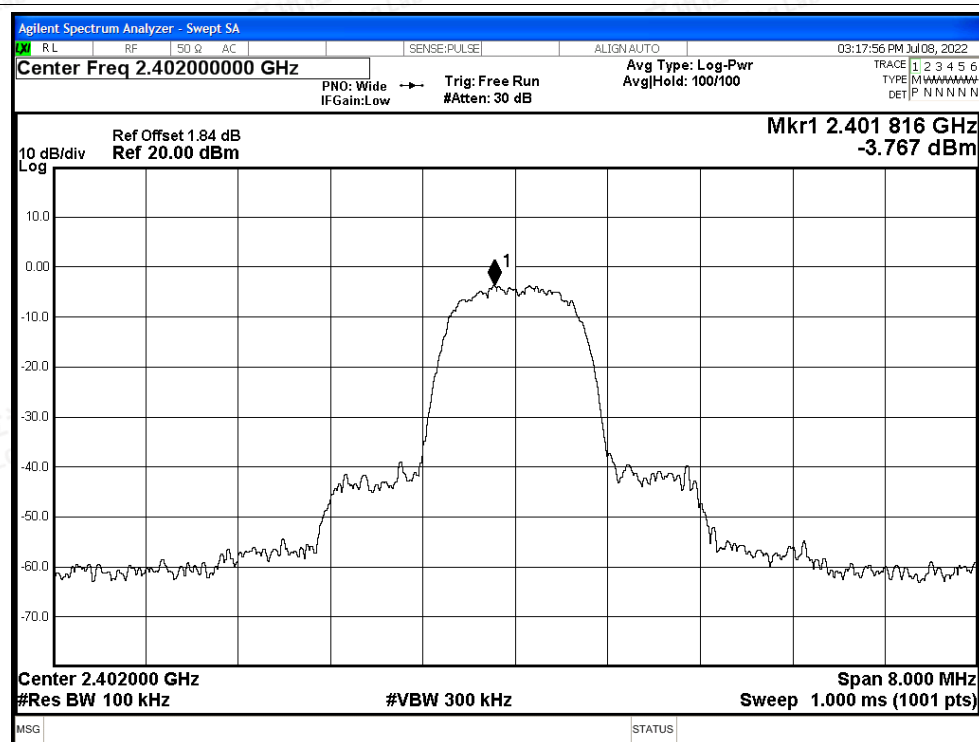
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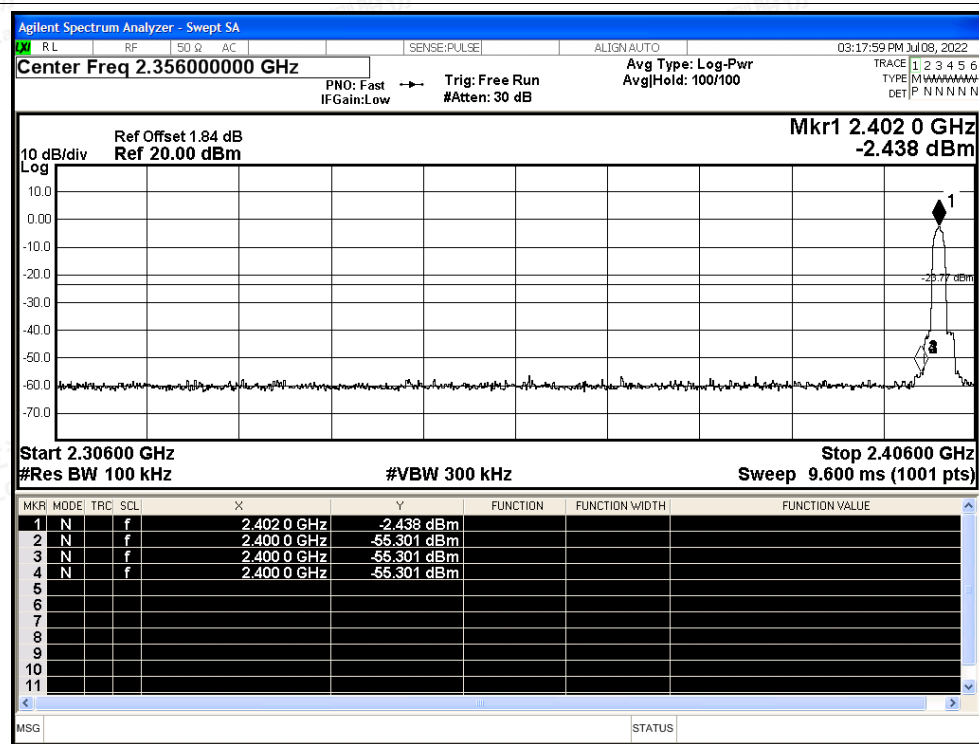
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

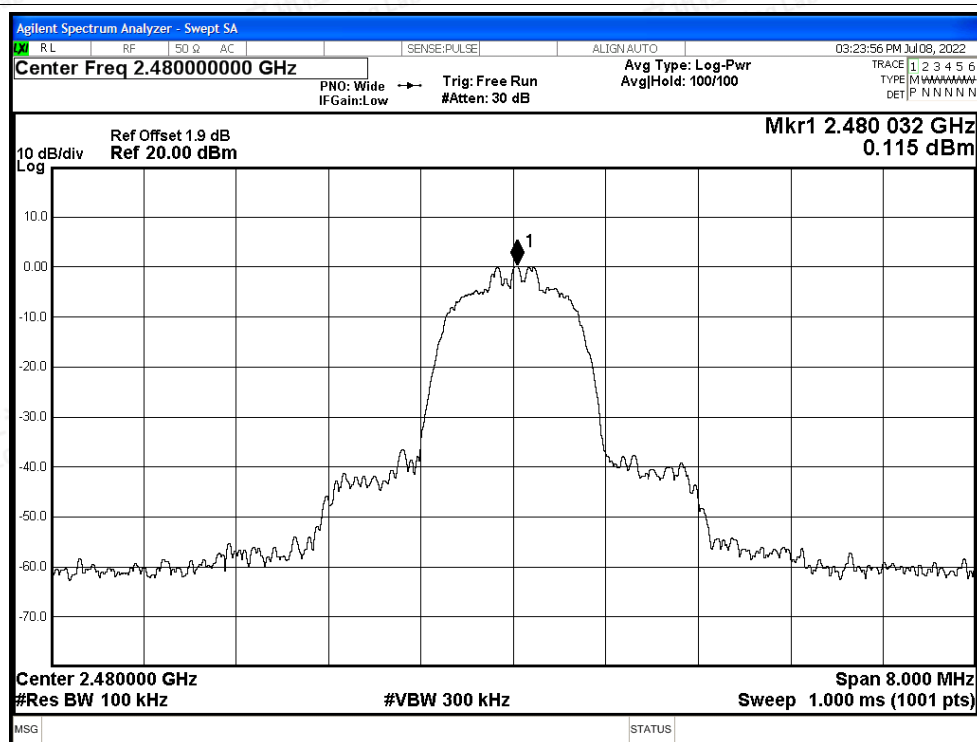
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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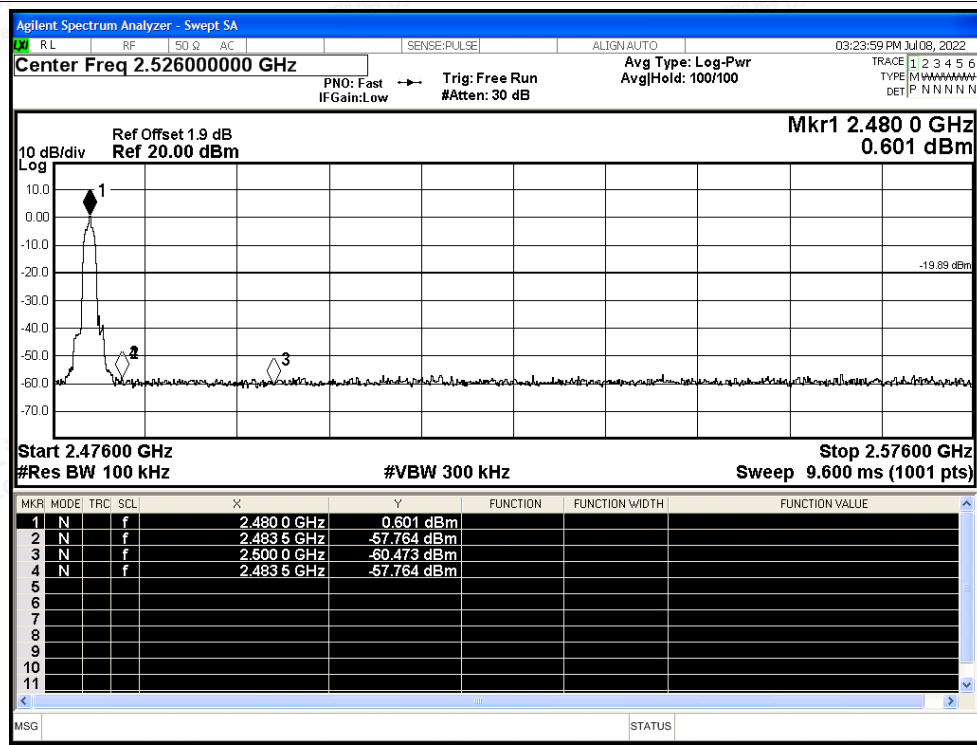
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

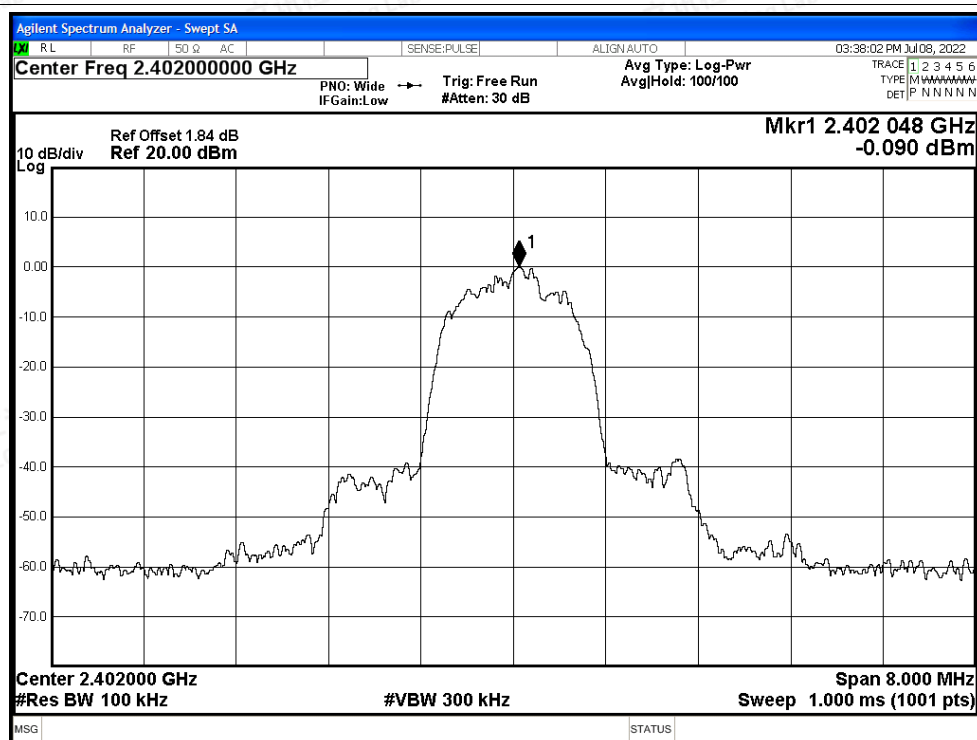
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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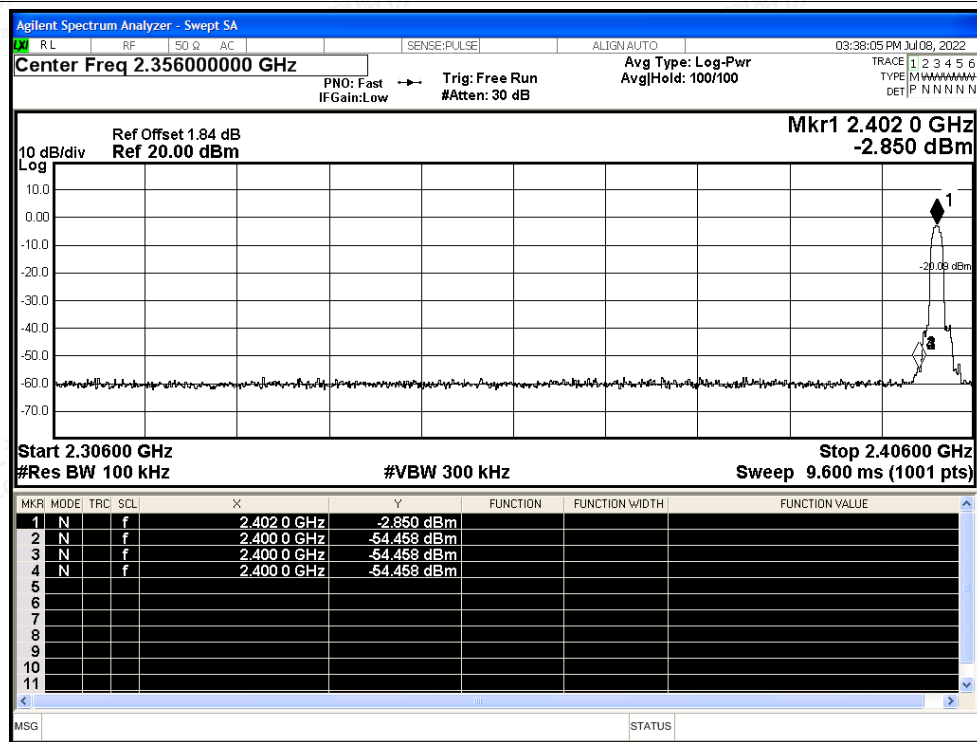
Scan code to check authenticity



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

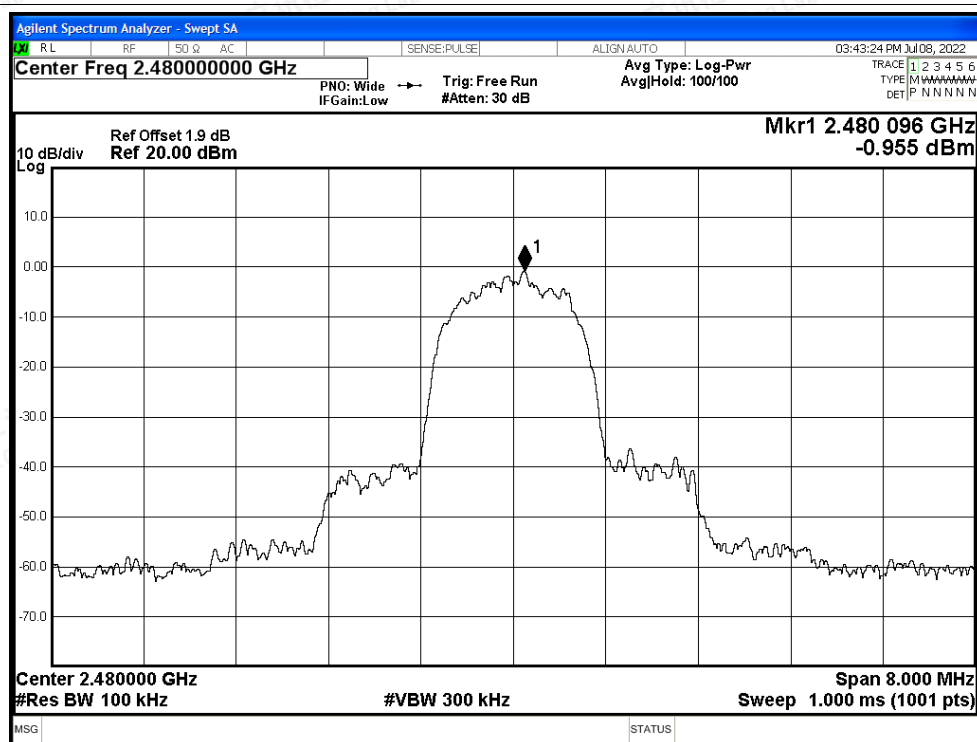


Band Edge NVNT 3-DH5 2402MHz Ant No-Hopping Emission

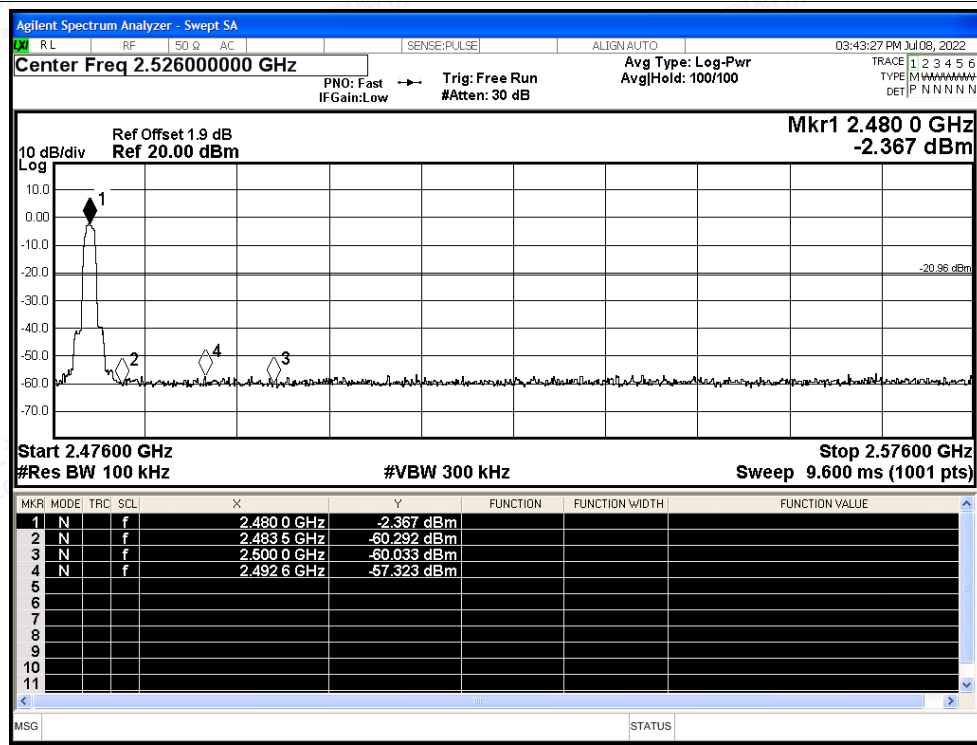




Band Edge NVNT 3-DH5 2480MHz Ant No-Hopping Ref



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



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(Hopping)

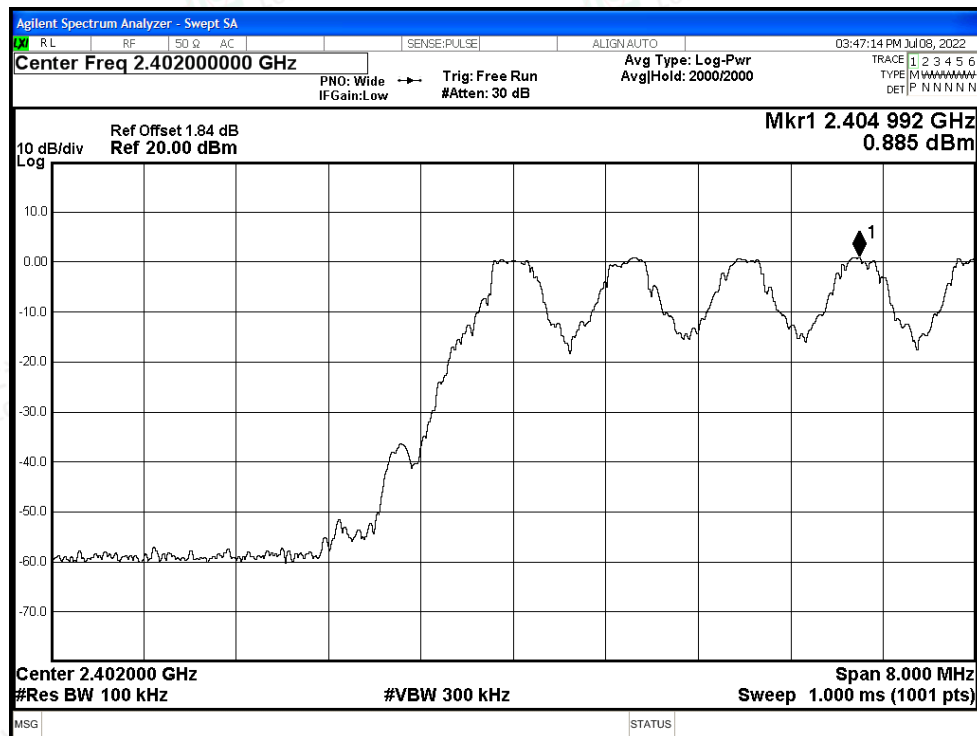
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	Hopping	-57.4	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-57.39	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-56.21	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-57.21	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-55.64	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-56	-20	Pass



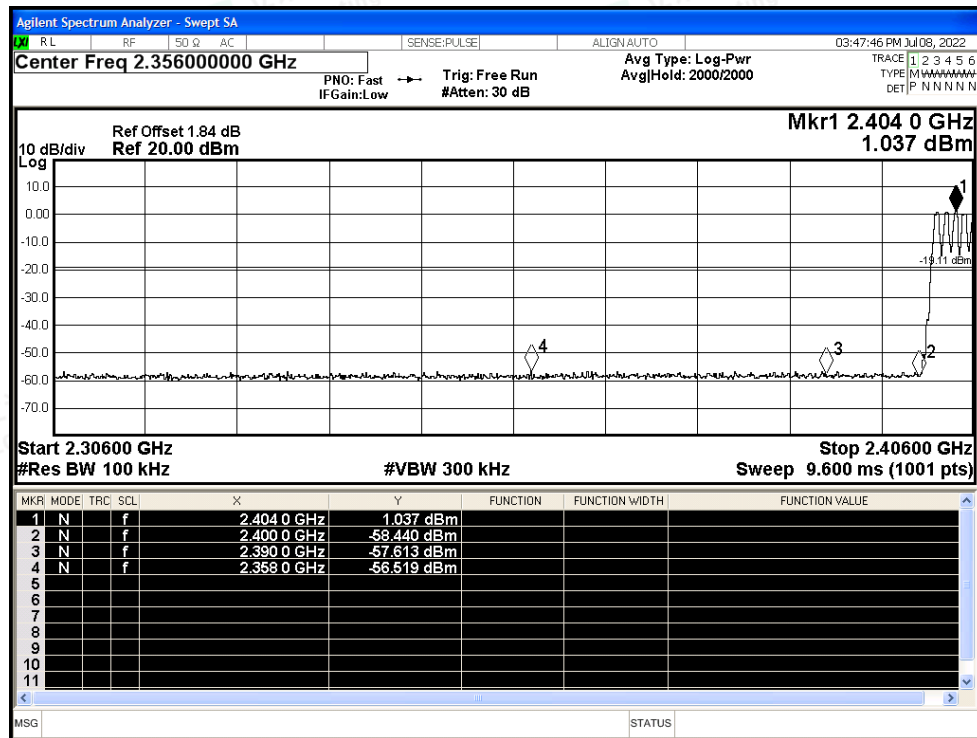


Test Graphs

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

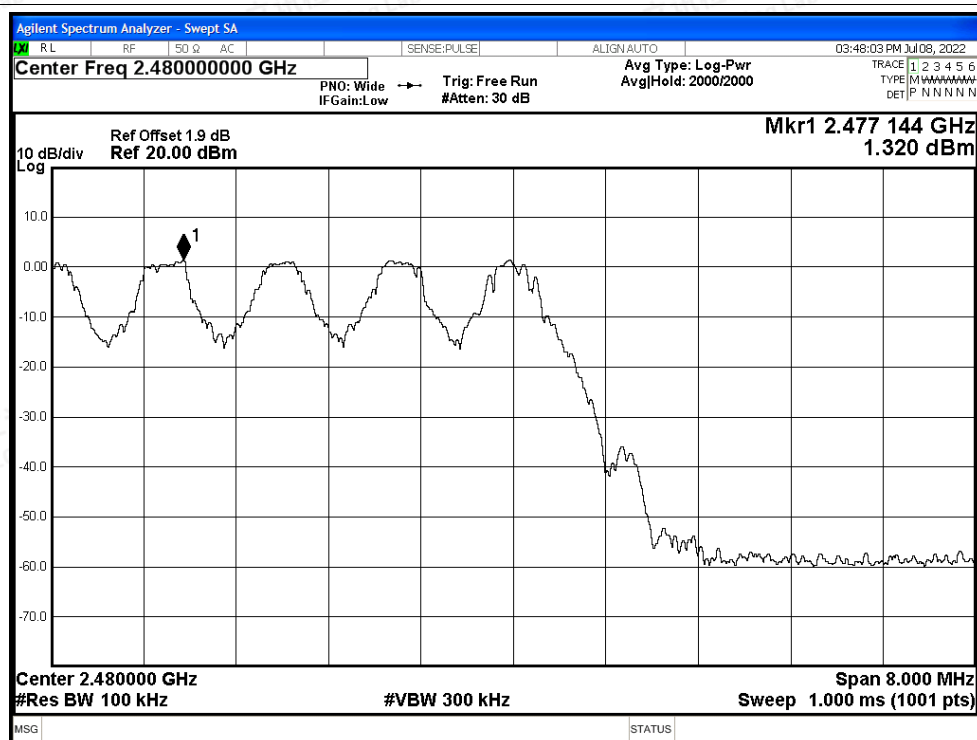


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant Hopping Emission

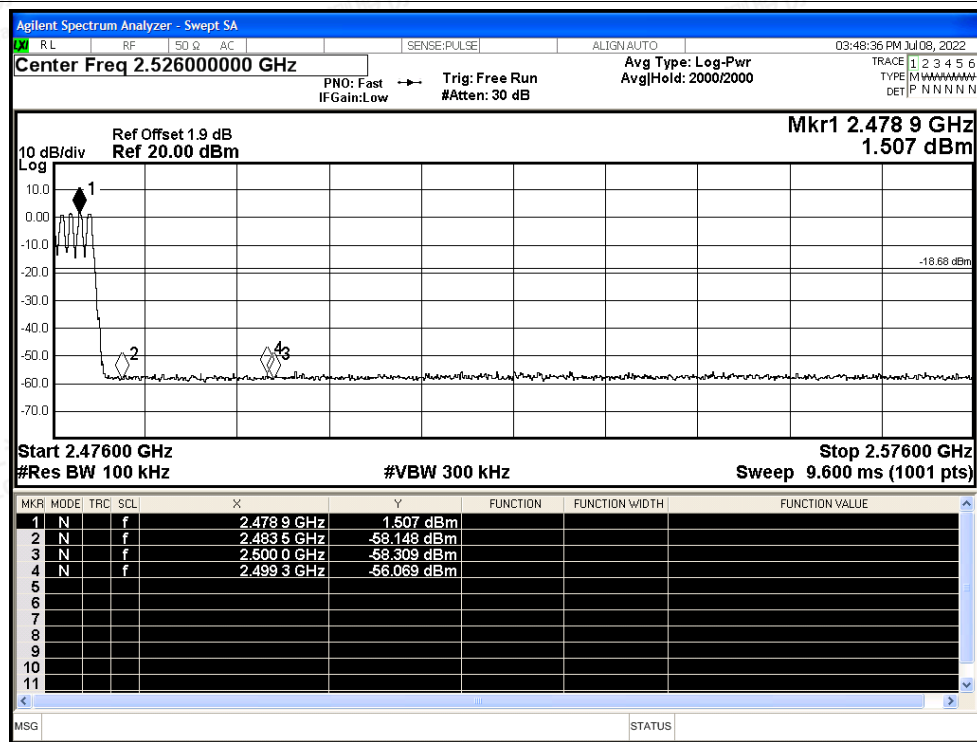




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Ref



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



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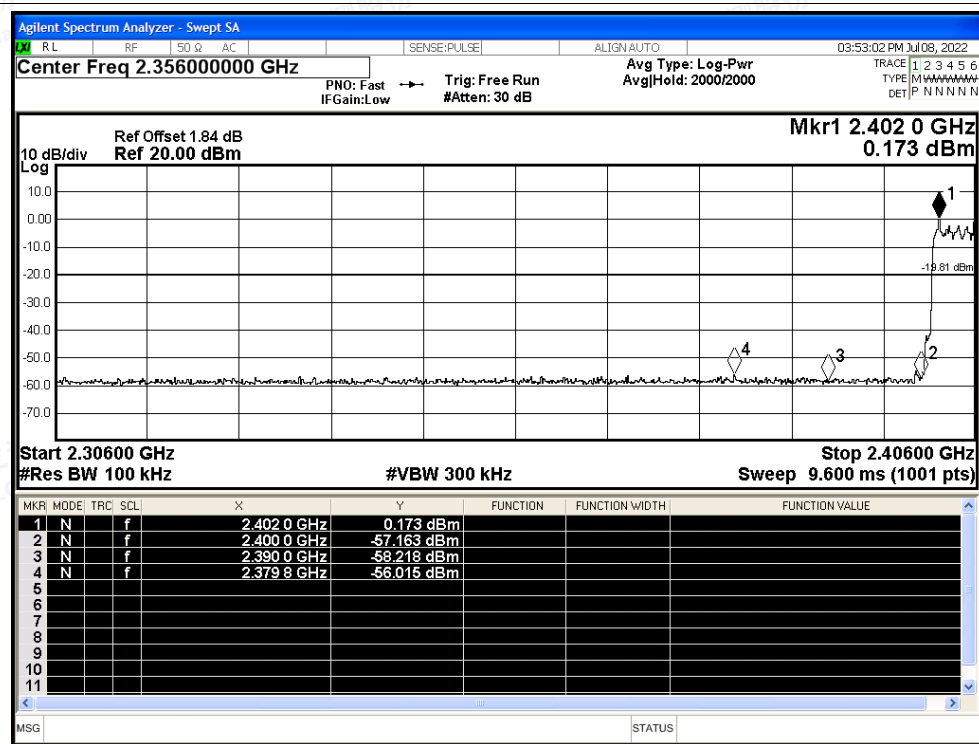
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Ref



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



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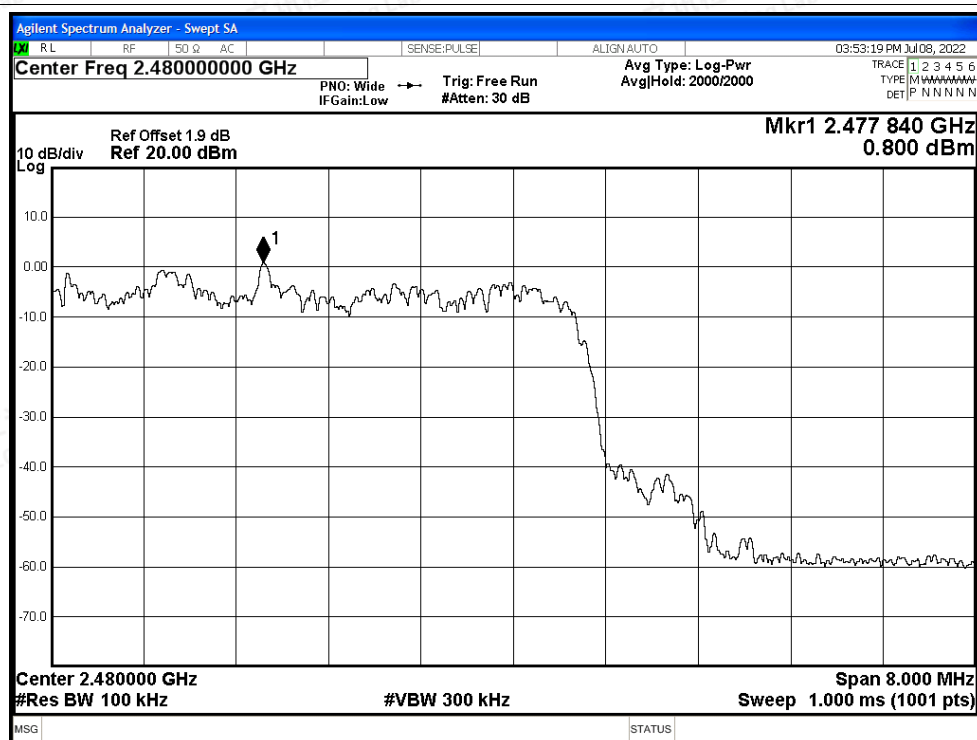
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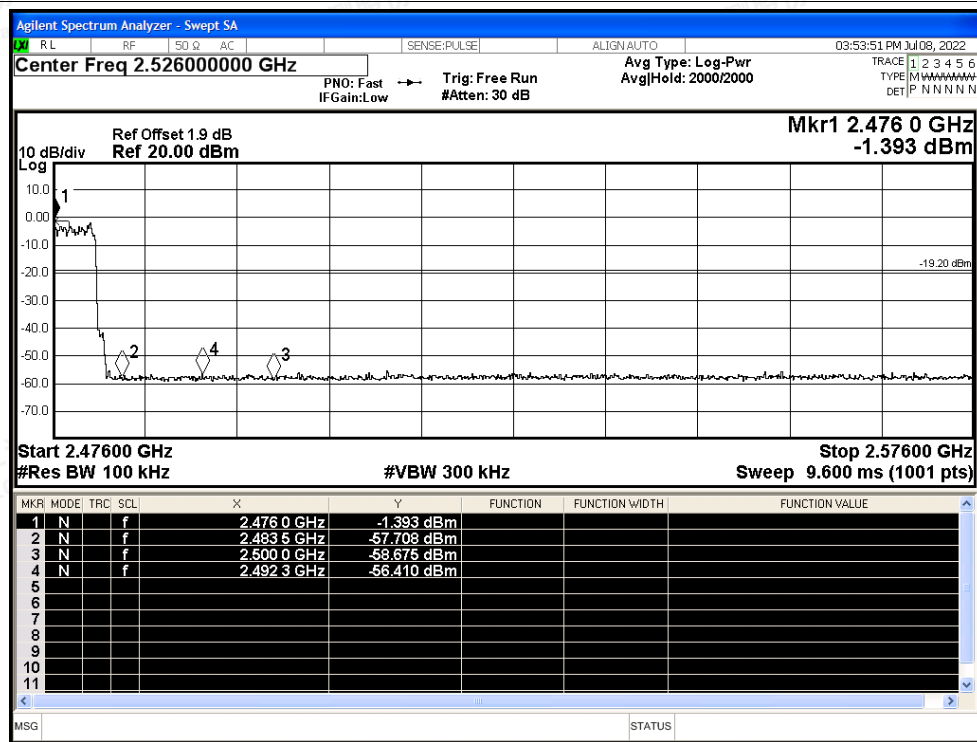
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Ref



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

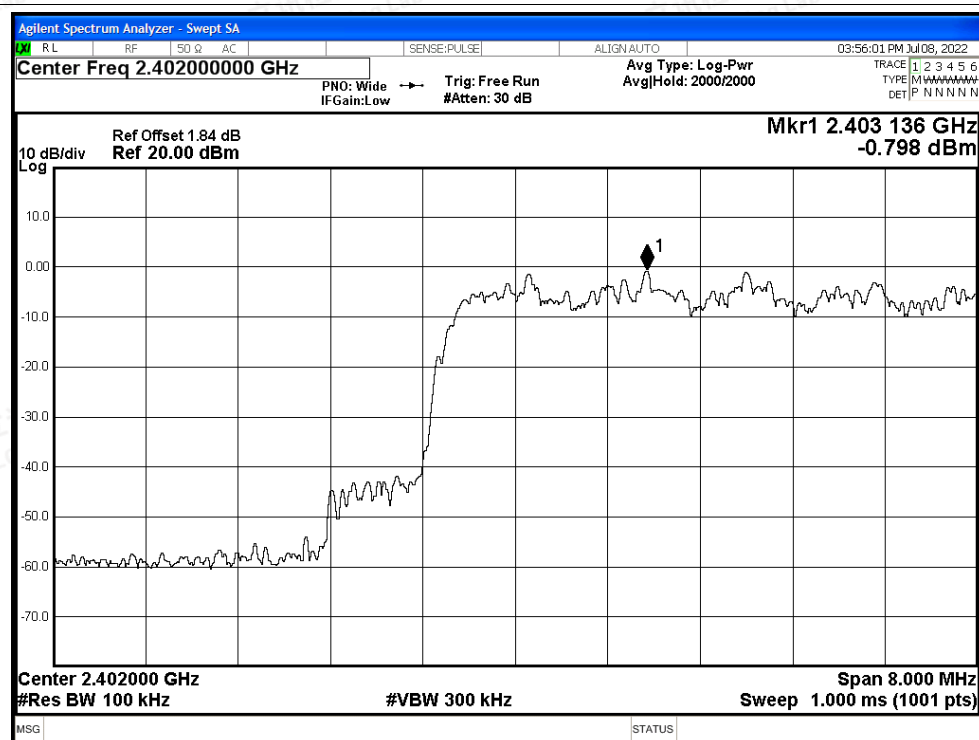
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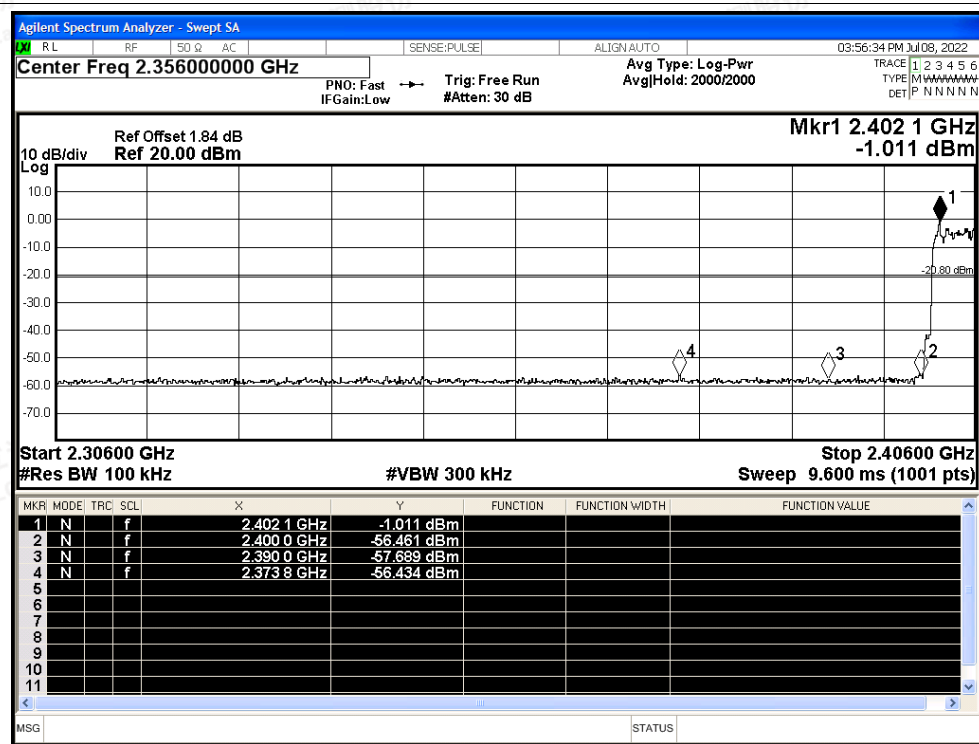
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Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Ref



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

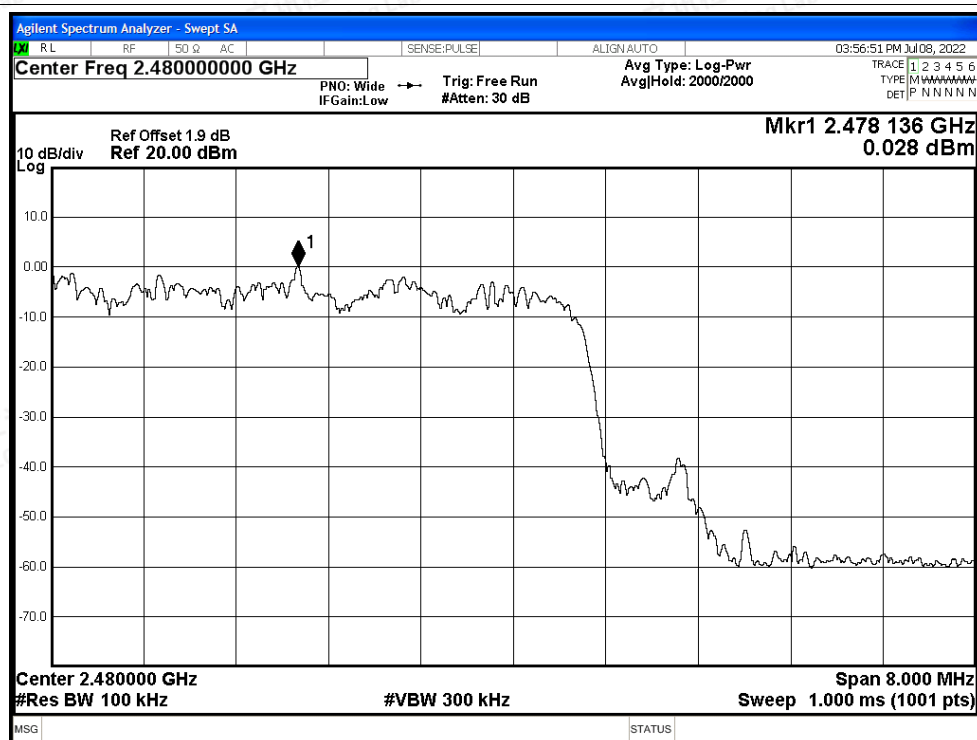
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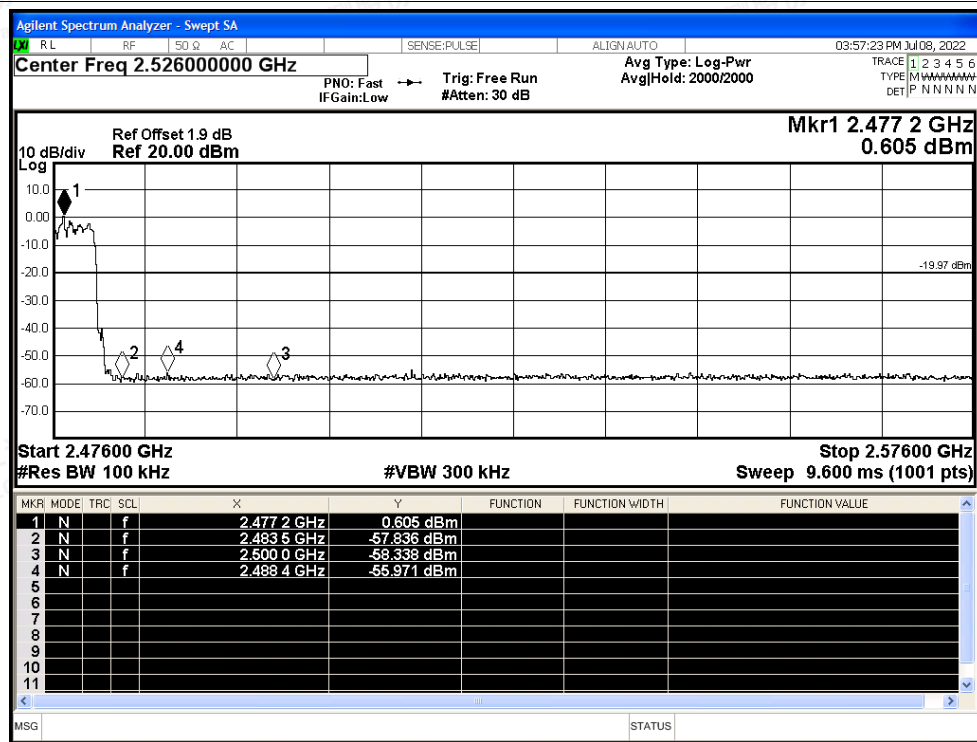
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Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant 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	Ant	-56.65	-20	Pass
NVNT	1-DH5	2441	Ant	-56.88	-20	Pass
NVNT	1-DH5	2480	Ant	-57.58	-20	Pass
NVNT	2-DH5	2402	Ant	-54.92	-20	Pass
NVNT	2-DH5	2441	Ant	-55.23	-20	Pass
NVNT	2-DH5	2480	Ant	-56.25	-20	Pass
NVNT	3-DH5	2402	Ant	-46.76	-20	Pass
NVNT	3-DH5	2441	Ant	-50.48	-20	Pass
NVNT	3-DH5	2480	Ant	-55.07	-20	Pass

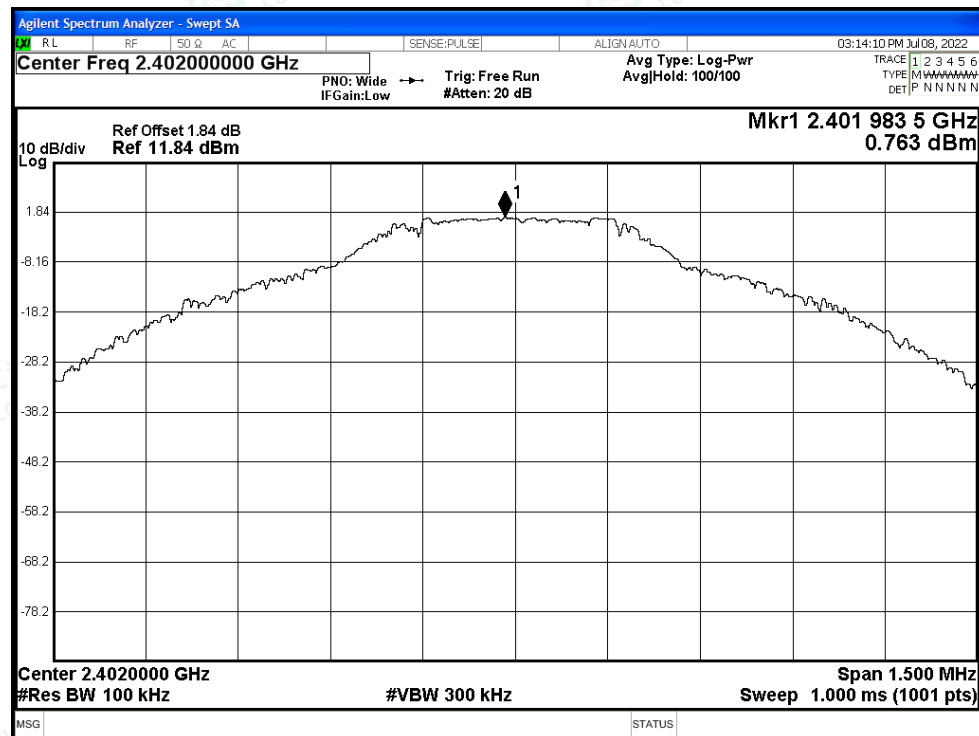


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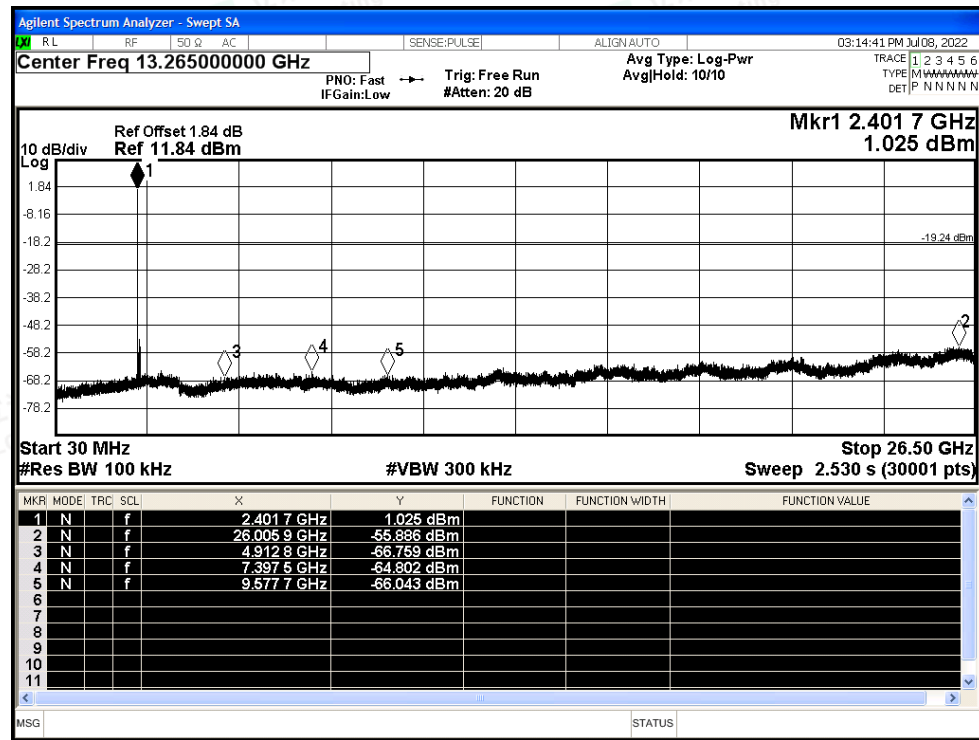


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

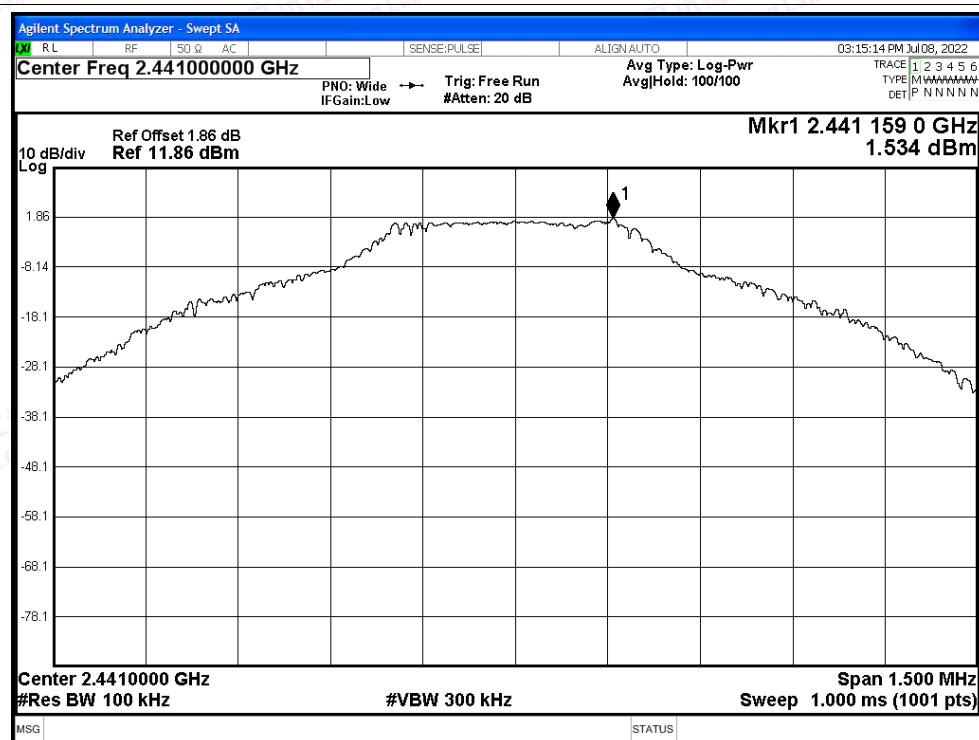
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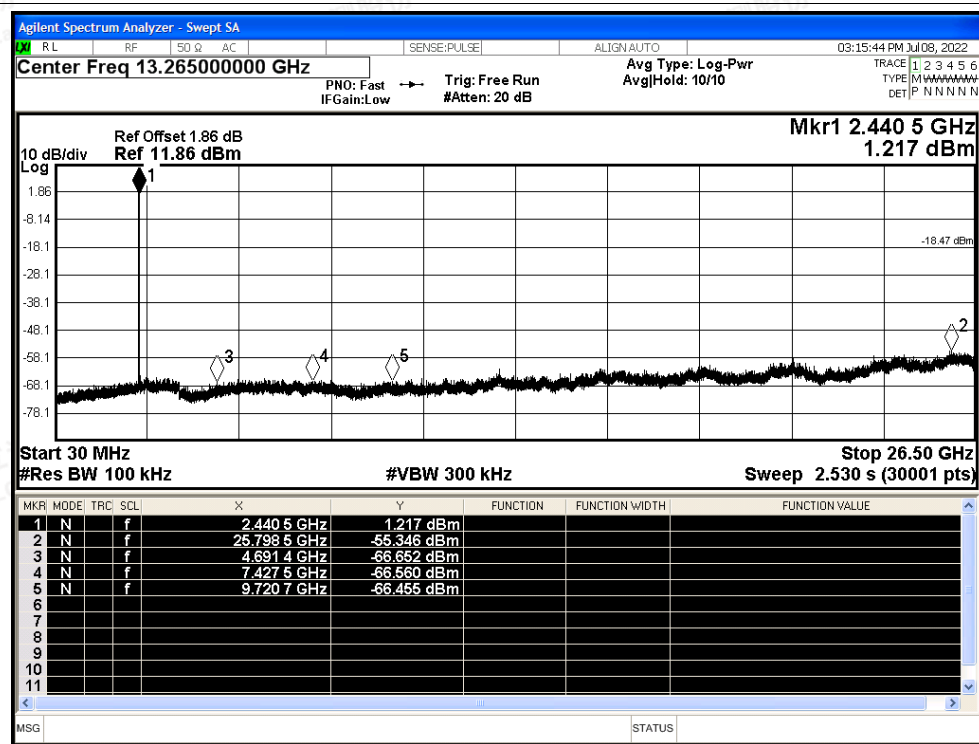
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

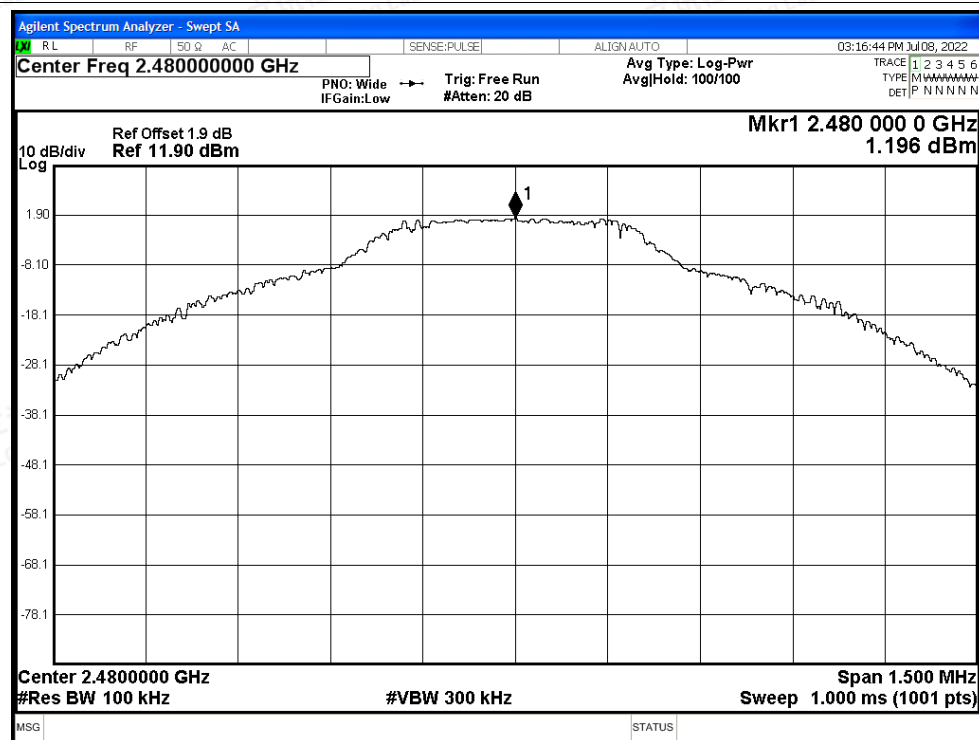
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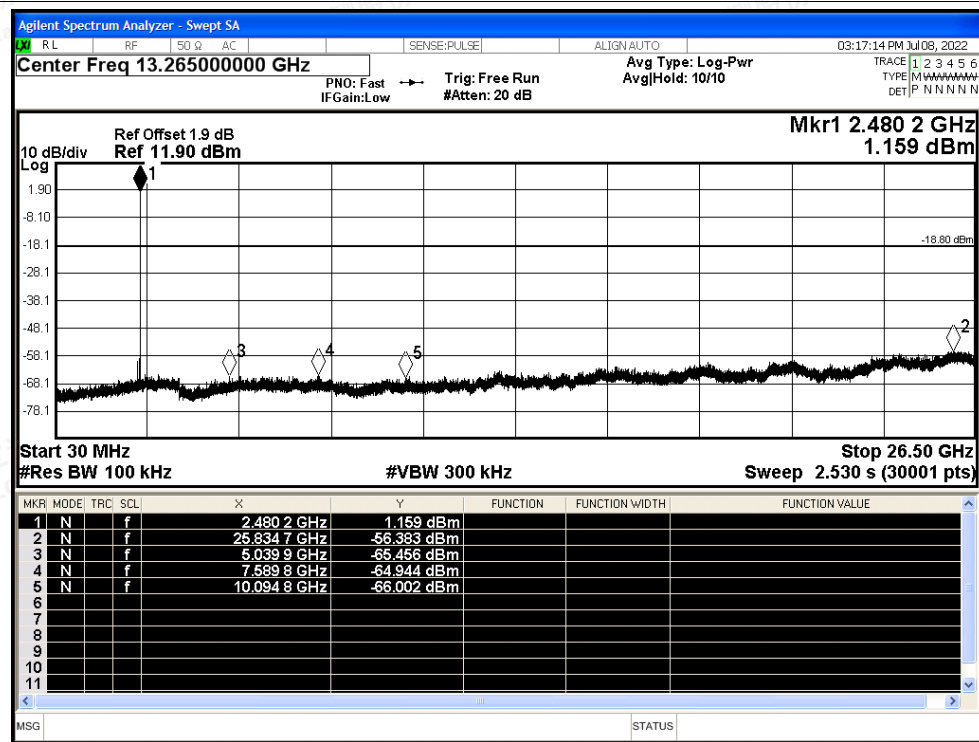
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

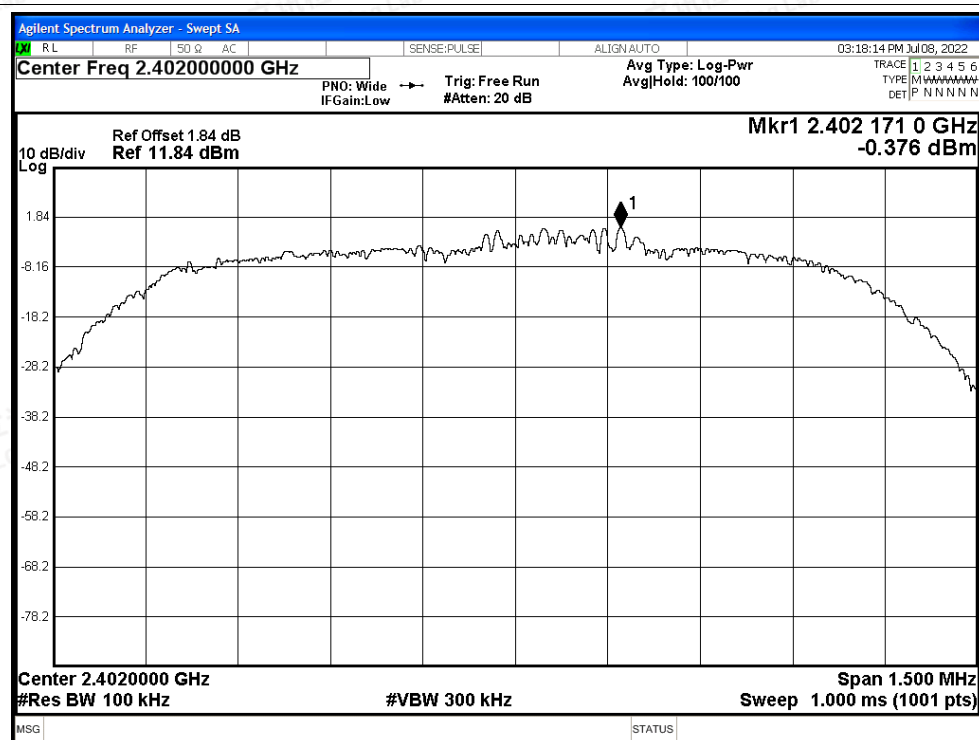
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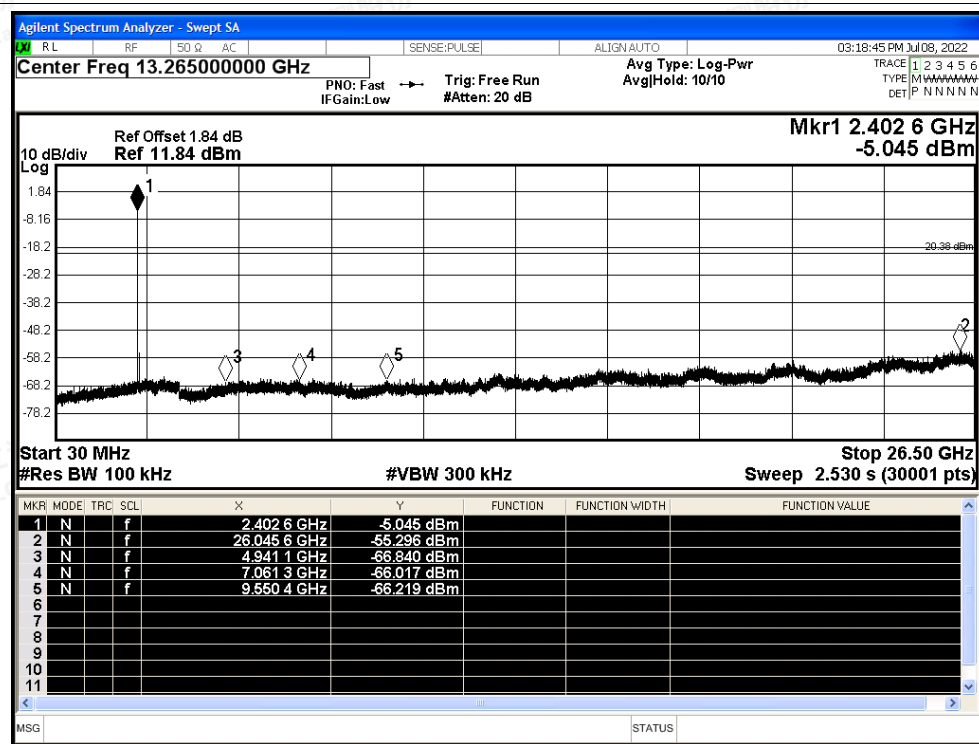
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Tx. Spurious NVNT 2-DH5 2402MHz Ant Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

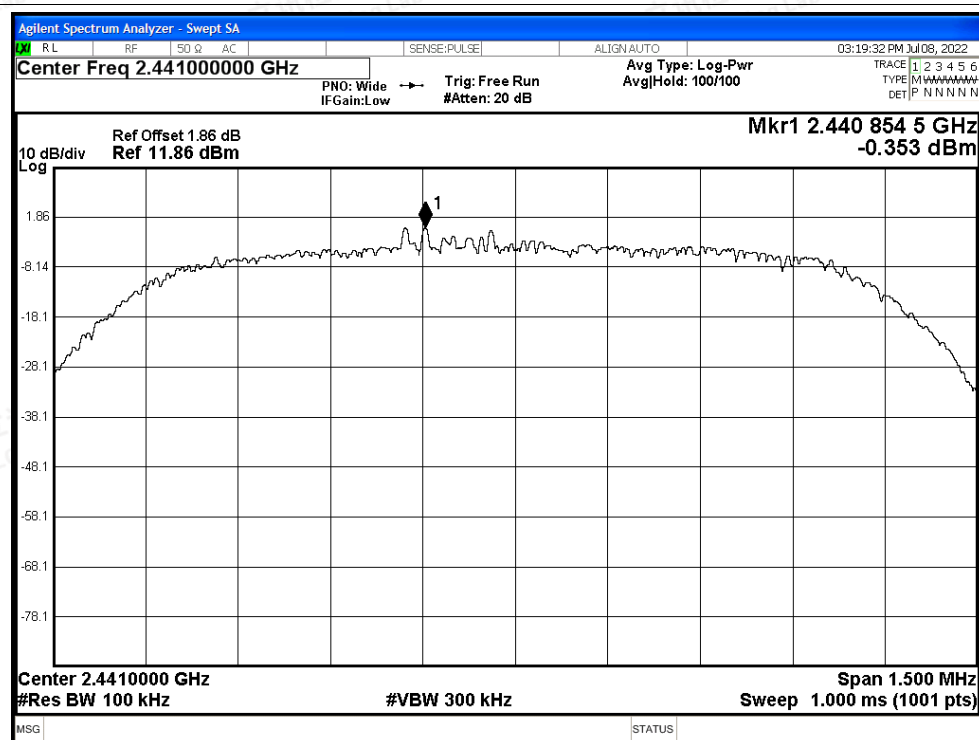
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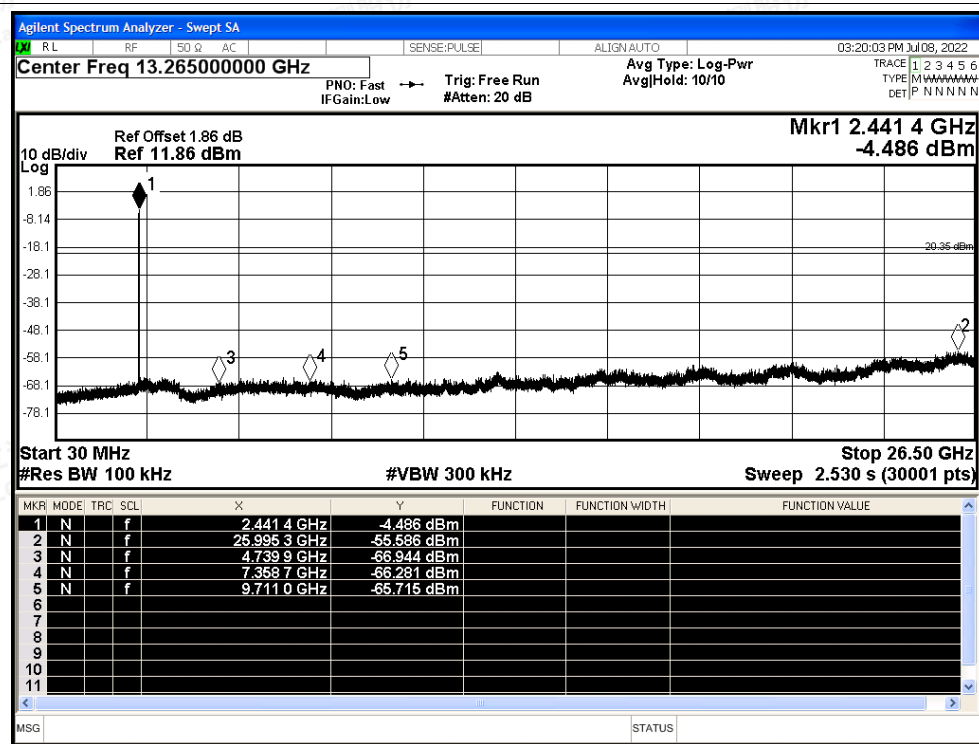
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

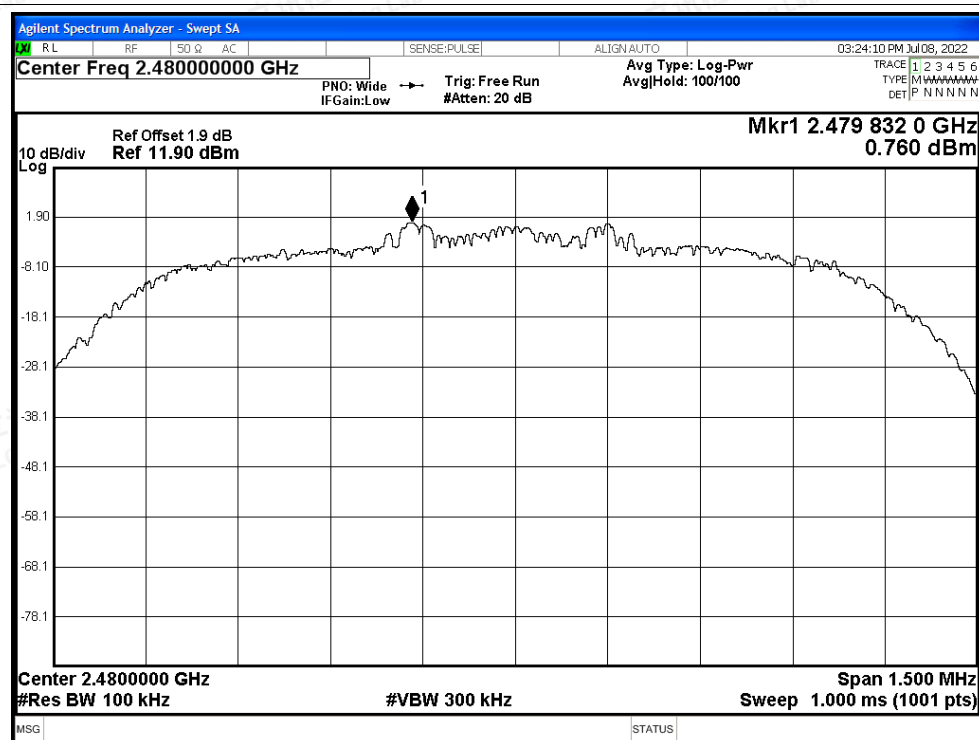
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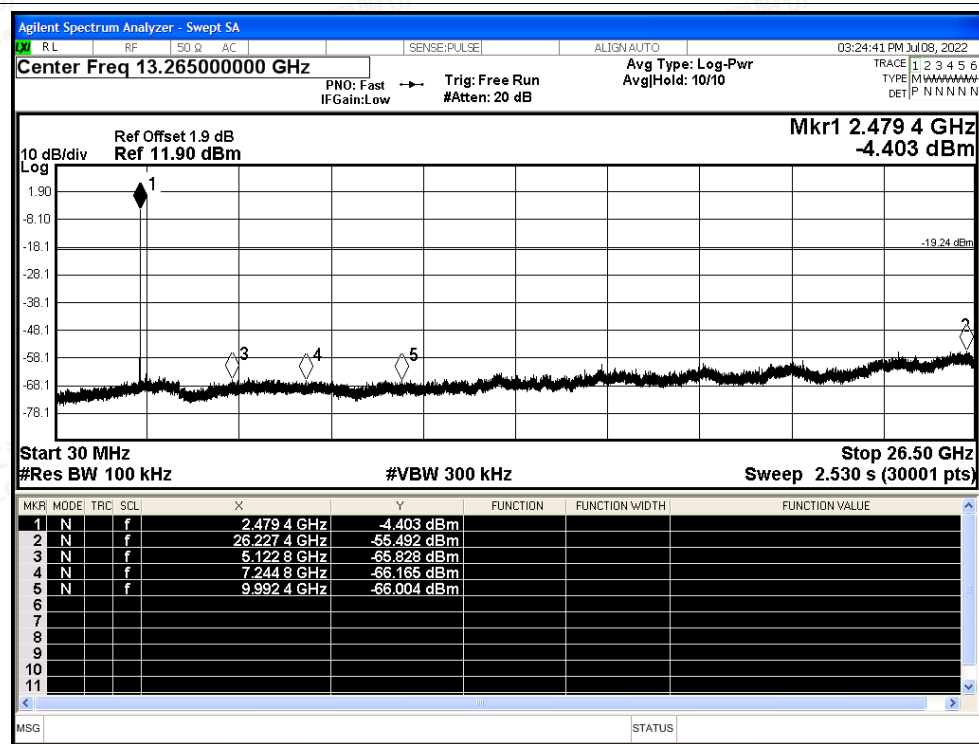
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant Emission



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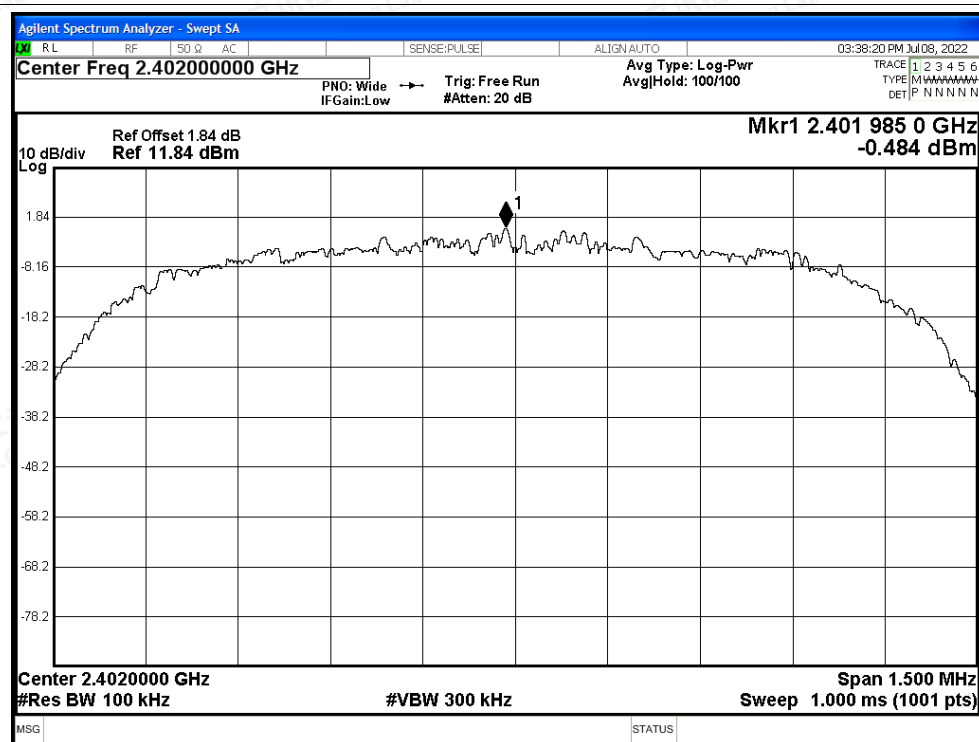
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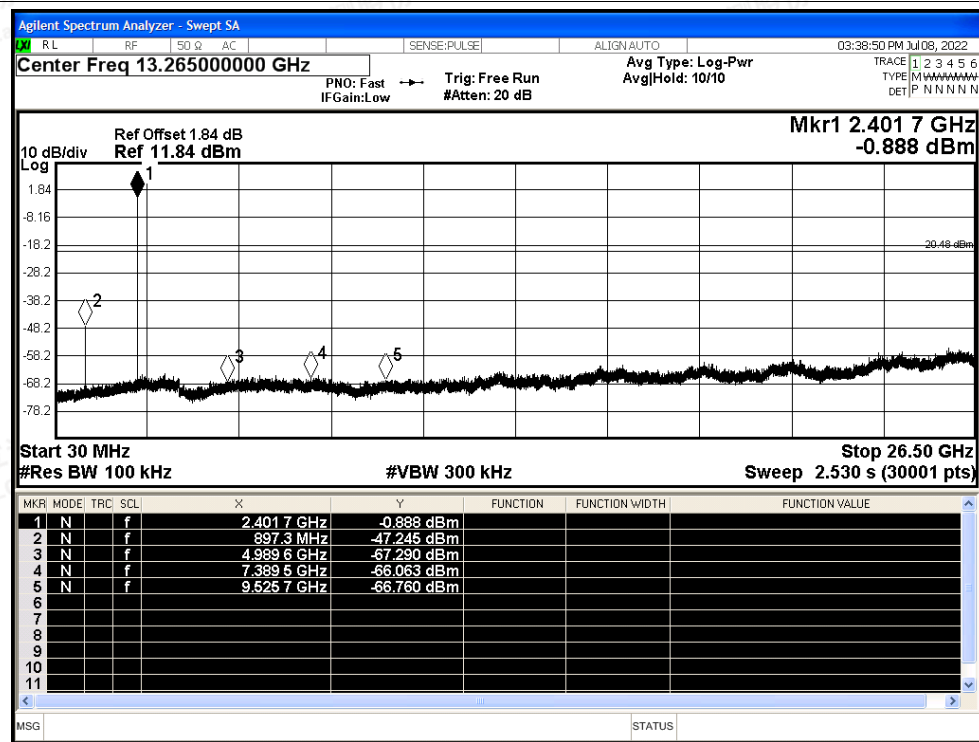
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

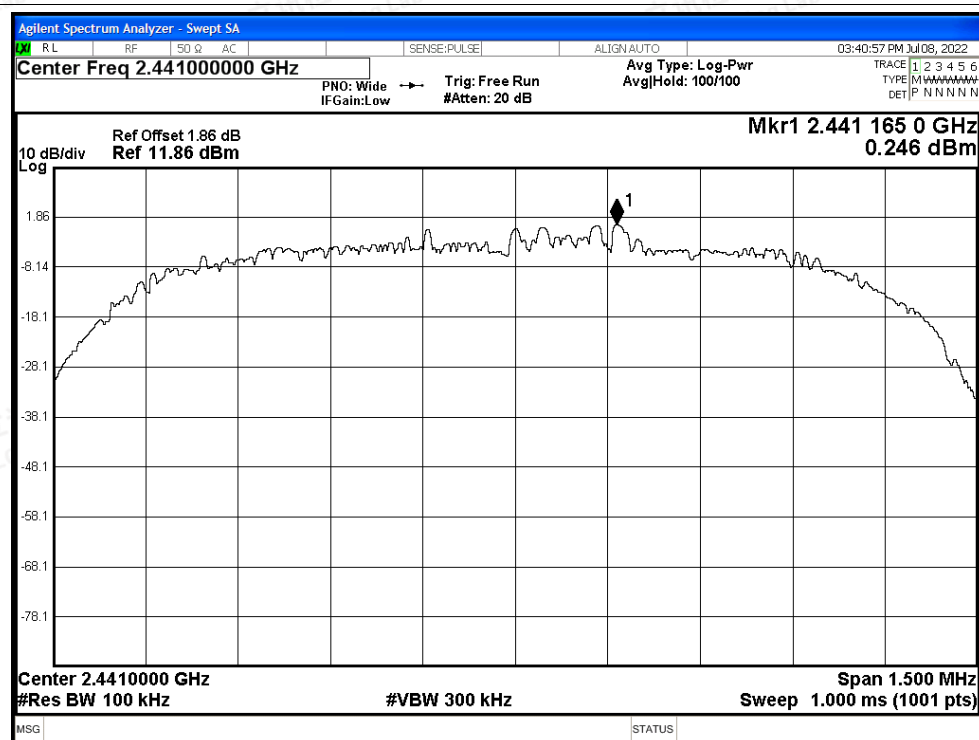
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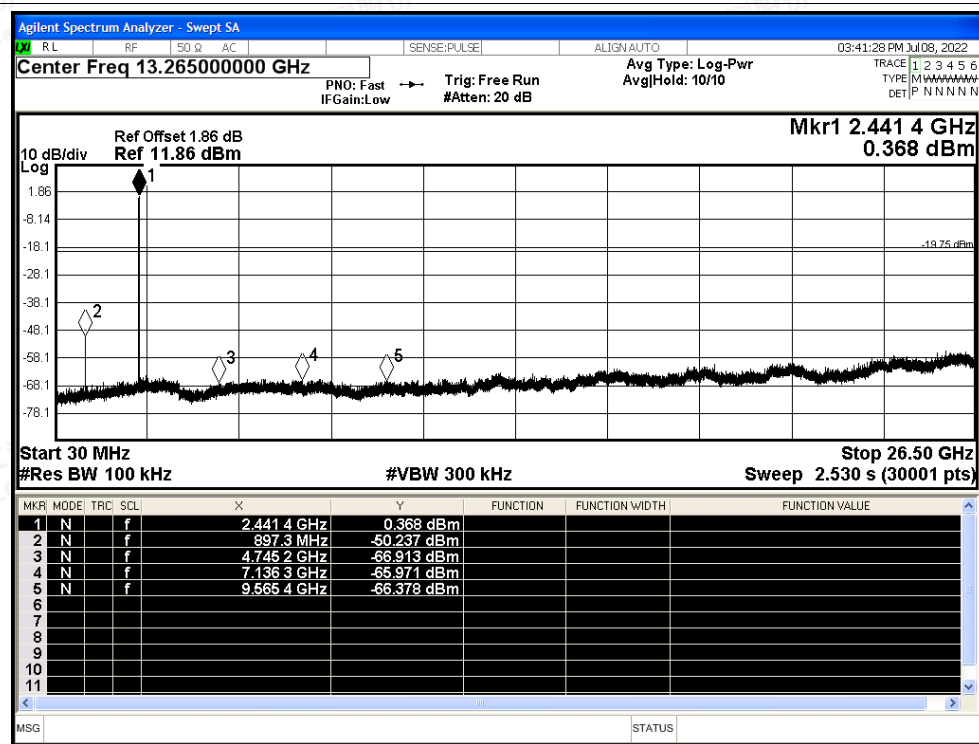
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant Emission



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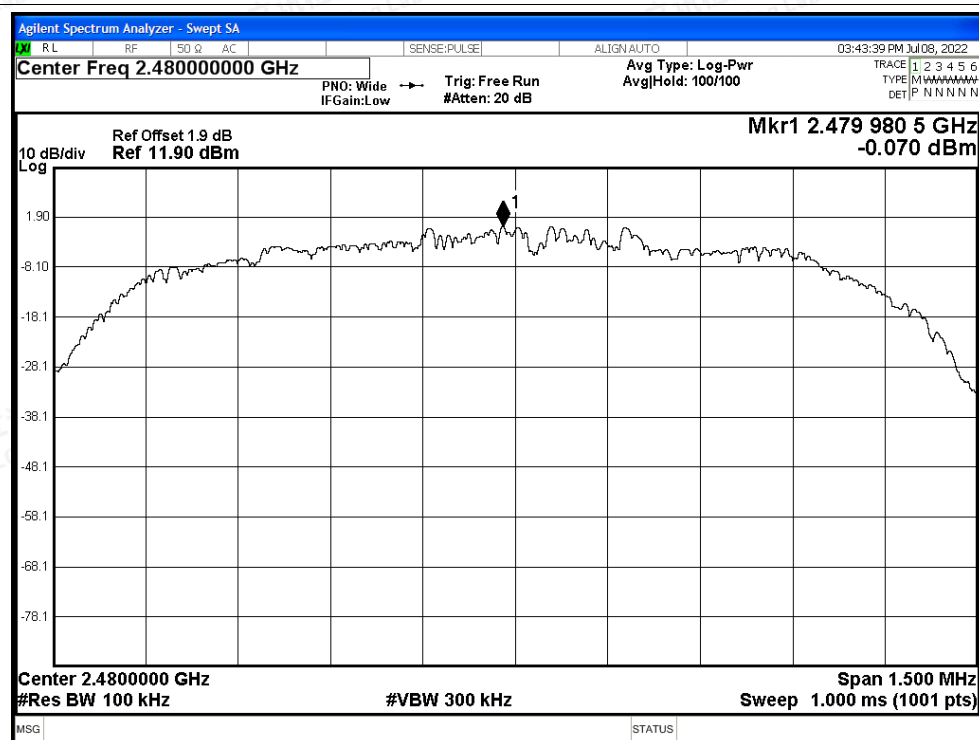
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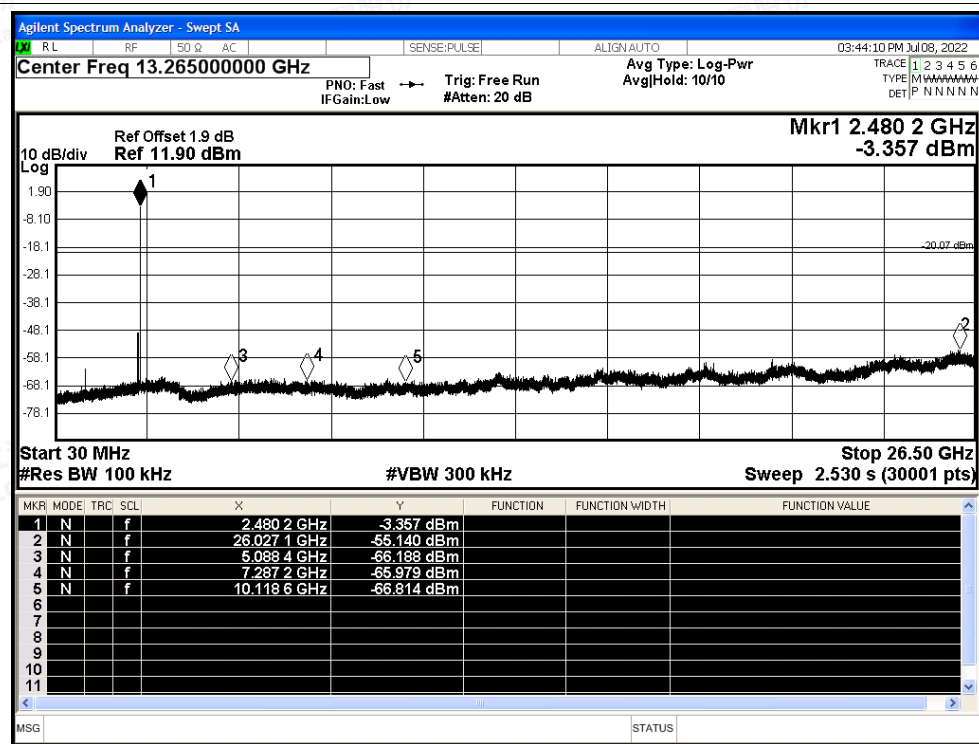
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Tx. Spurious NVNT 3-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant 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	Ant	No-Hopping	2310	-49.86	2	47.4	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-60.55	2	36.71	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2389.872	-47.81	2	49.45	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2387.088	-60.11	2	37.15	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-51.2	2	46.06	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-60.18	2	37.08	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-50.14	2	47.12	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-59.65	2	37.61	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2484.568	-47.31	2	49.95	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2485.504	-59.52	2	37.74	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-50.87	2	46.39	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-59.89	2	37.37	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-49.59	2	47.67	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-60.6	2	36.66	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2352.144	-47.89	2	49.37	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2388.816	-60.05	2	37.21	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-50.51	2	46.75	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-60.19	2	37.07	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-49.63	2	47.63	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-59.67	2	37.59	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2485.96	-47.4	2	49.86	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.56	-59.58	2	37.68	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-50.3	2	46.96	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-60.04	2	37.22	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-49.69	2	47.57	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-60.64	2	36.62	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2317.296	-47.39	2	49.87	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2382.768	-59.95	2	37.31	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-49.42	2	47.84	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-60.27	2	36.99	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-50.65	2	46.61	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-59.53	2	37.73	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2493.52	-47.12	2	50.14	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.56	-59.47	2	37.79	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-48.86	2	48.4	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-59.91	2	37.35	Average	54	Pass



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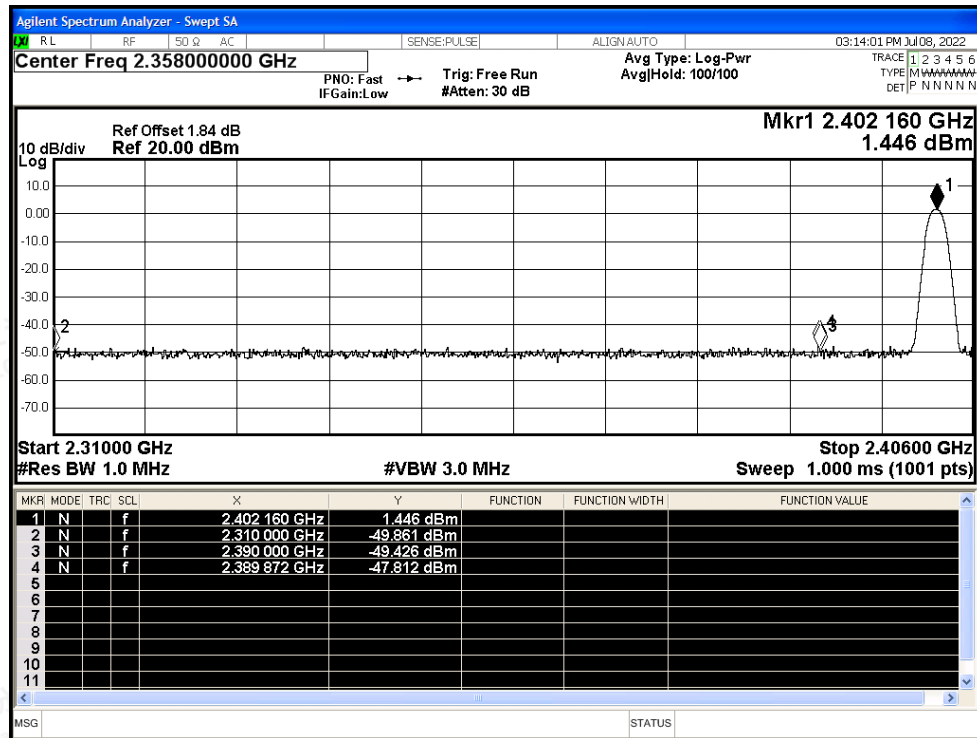
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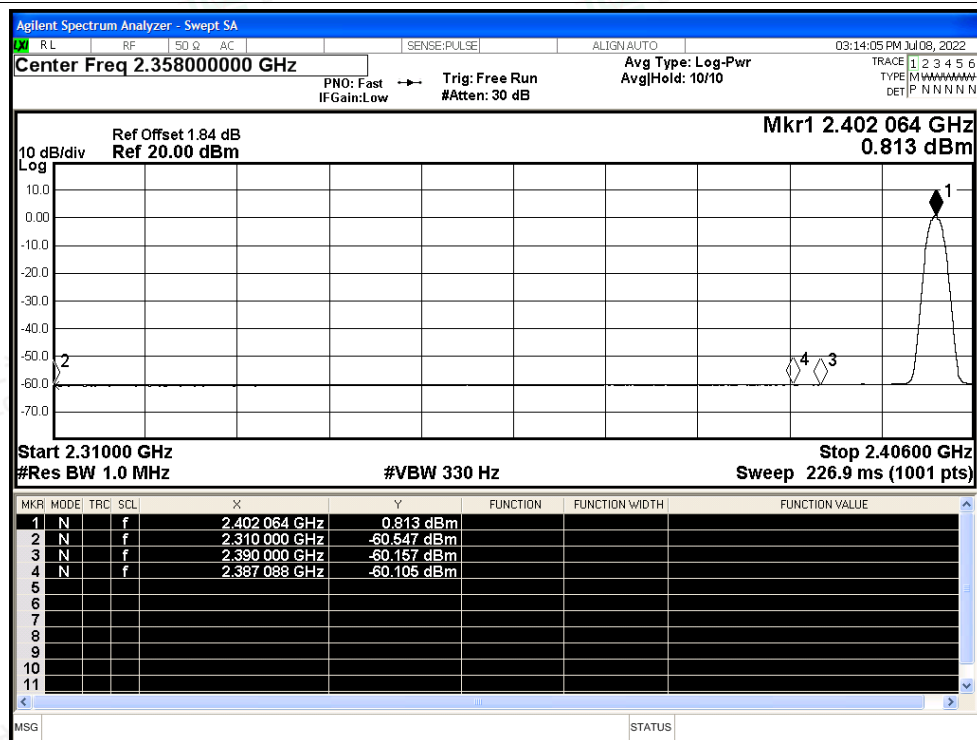


Test Graphs

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

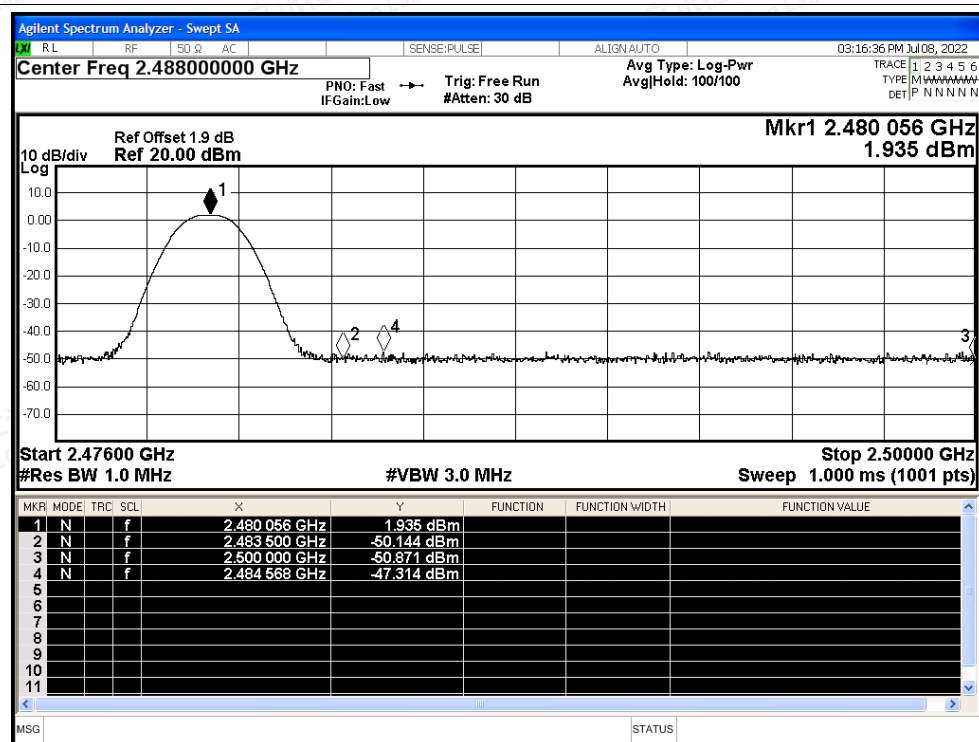


Restrict Band NVNT 1-DH5 2402MHz Ant No-Hopping Average

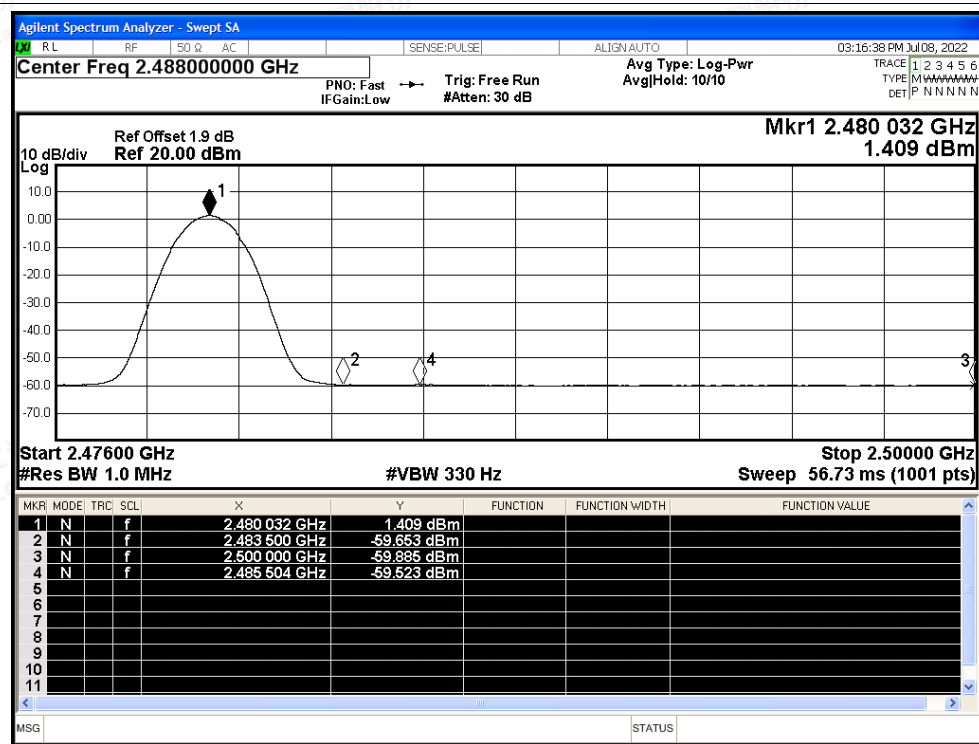




Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Peak



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



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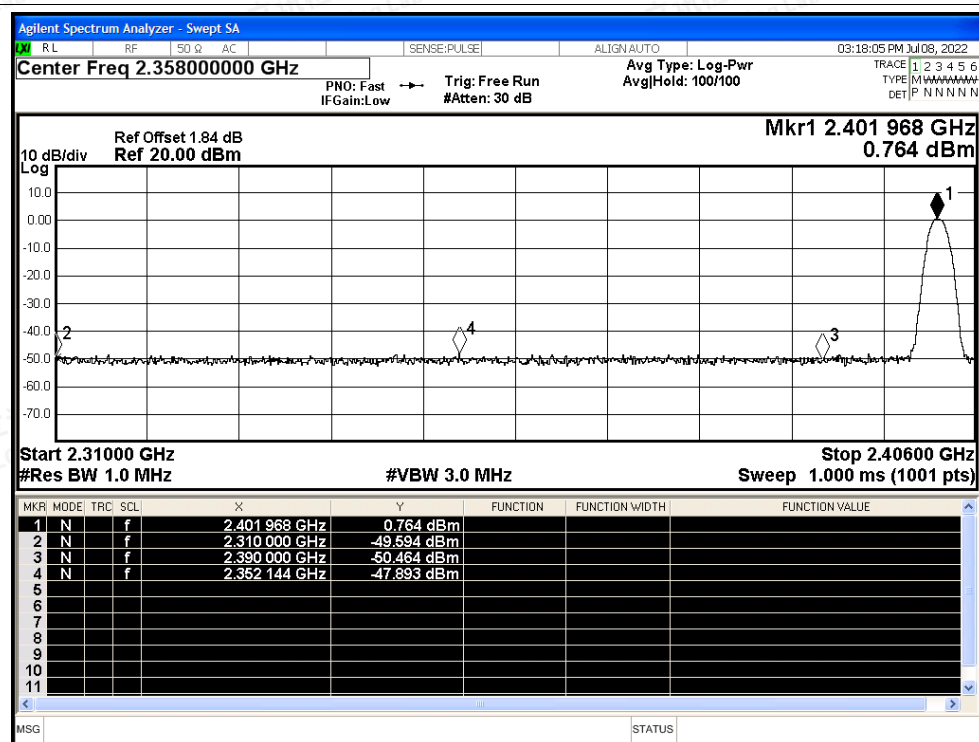
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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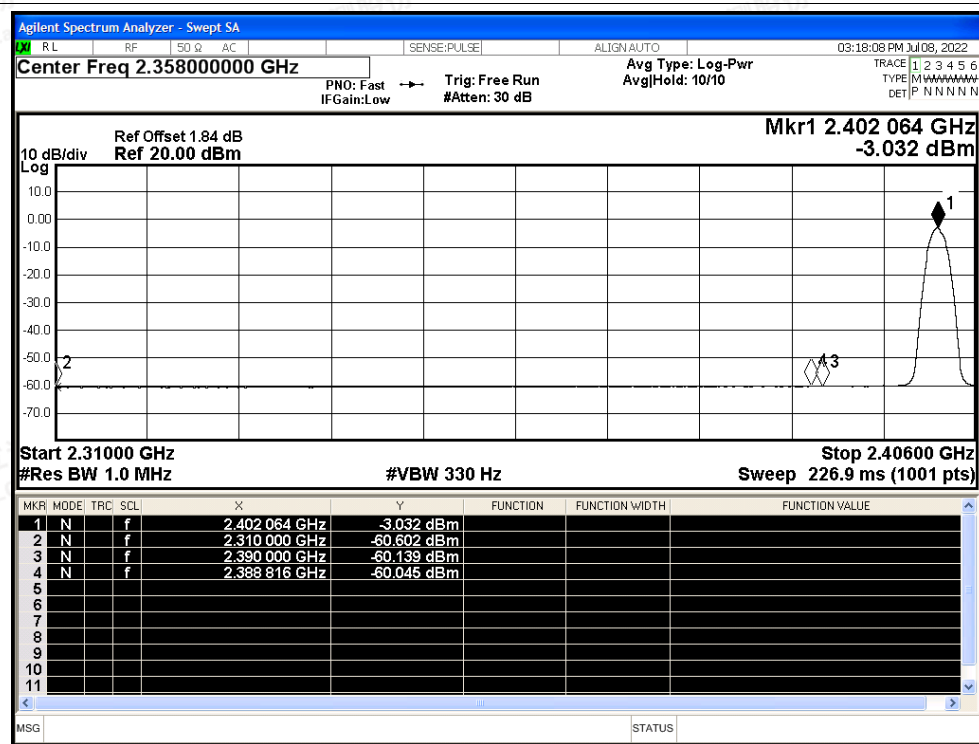
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

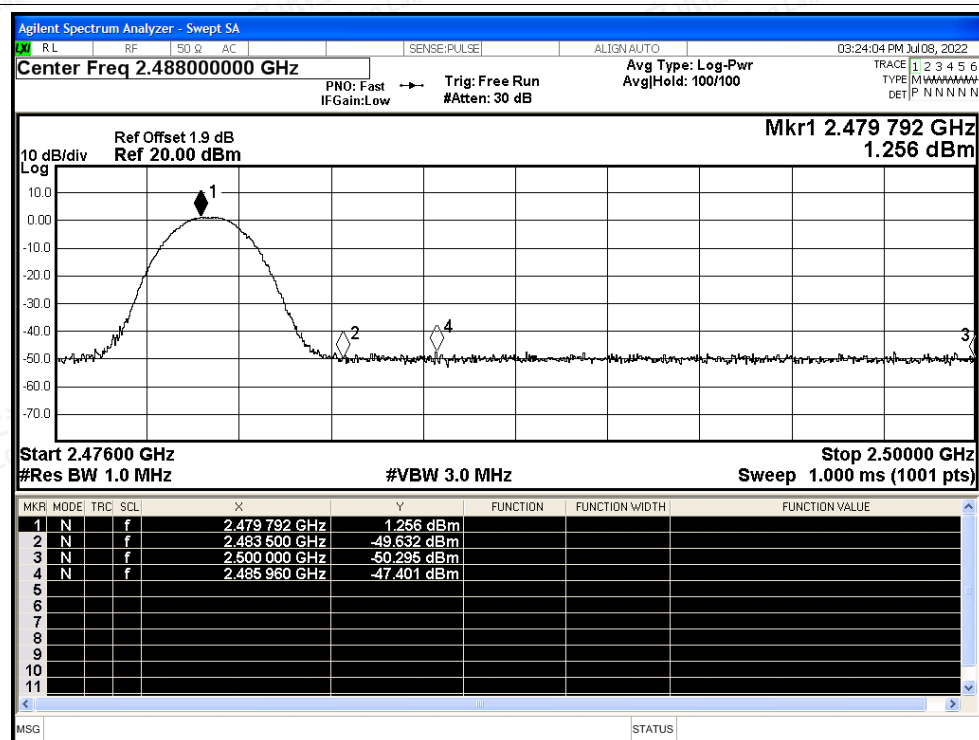
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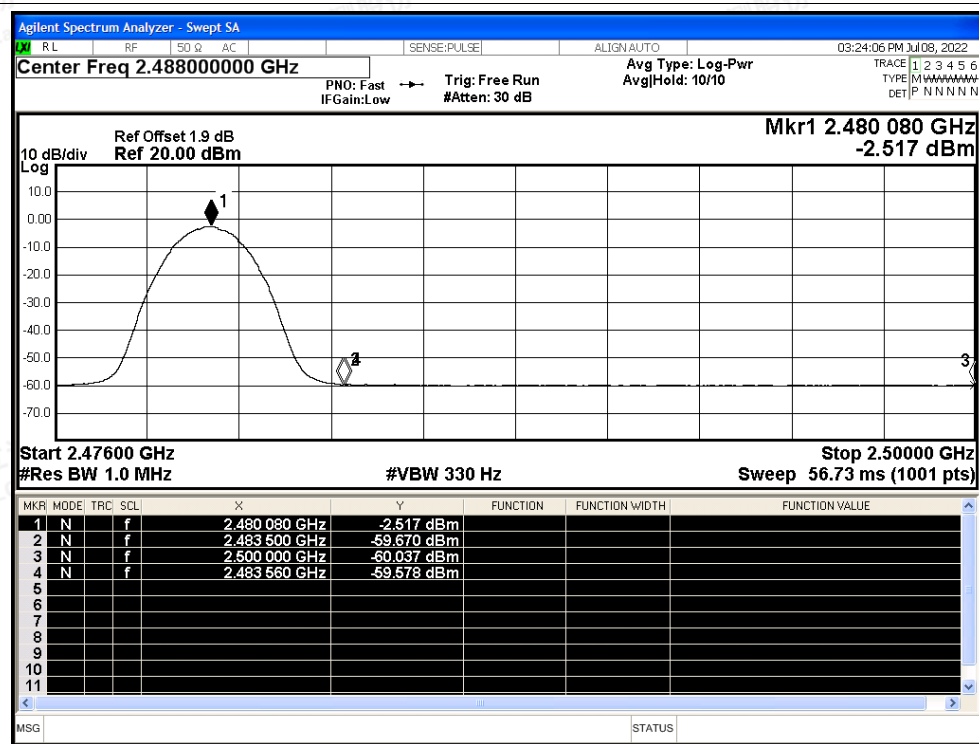
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Restrict Band NVNT 2-DH5 2480MHz Ant No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

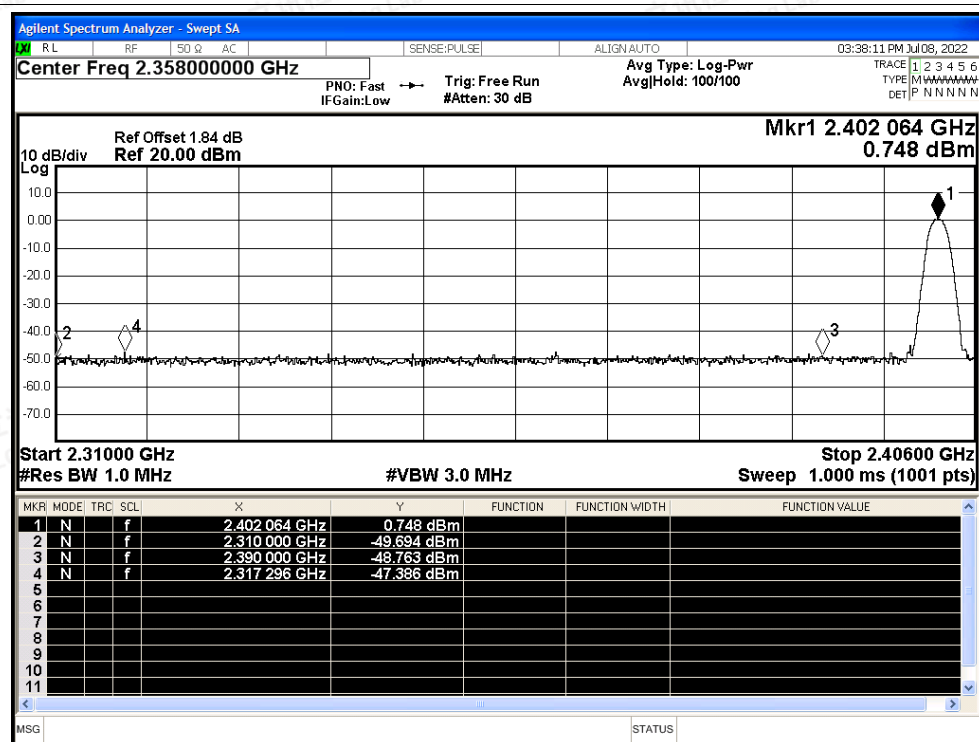
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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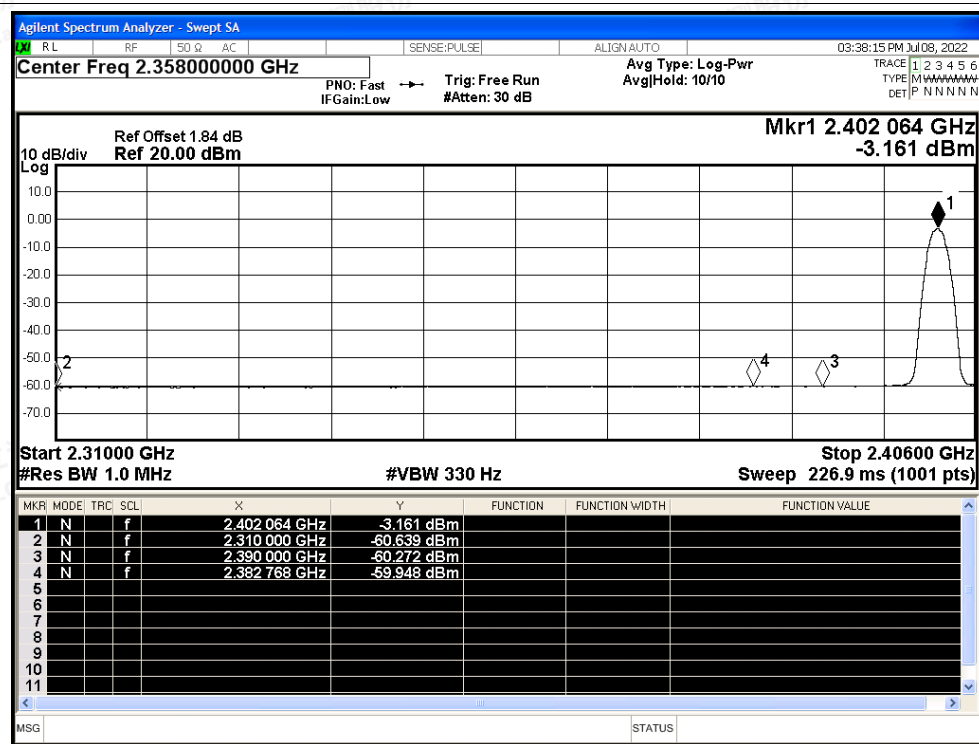
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Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

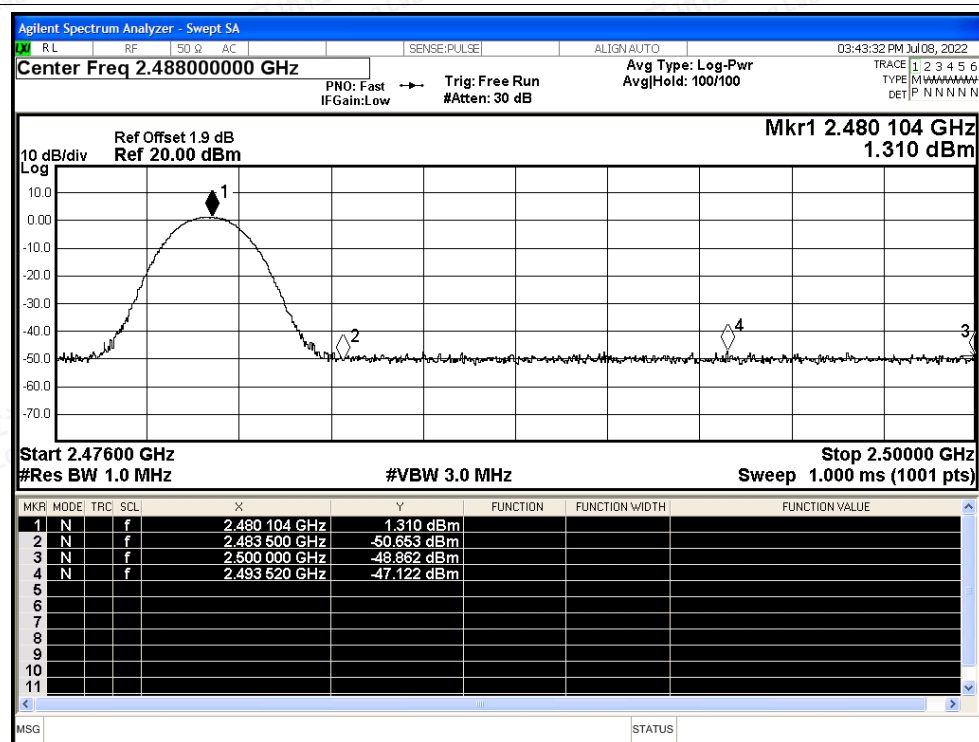
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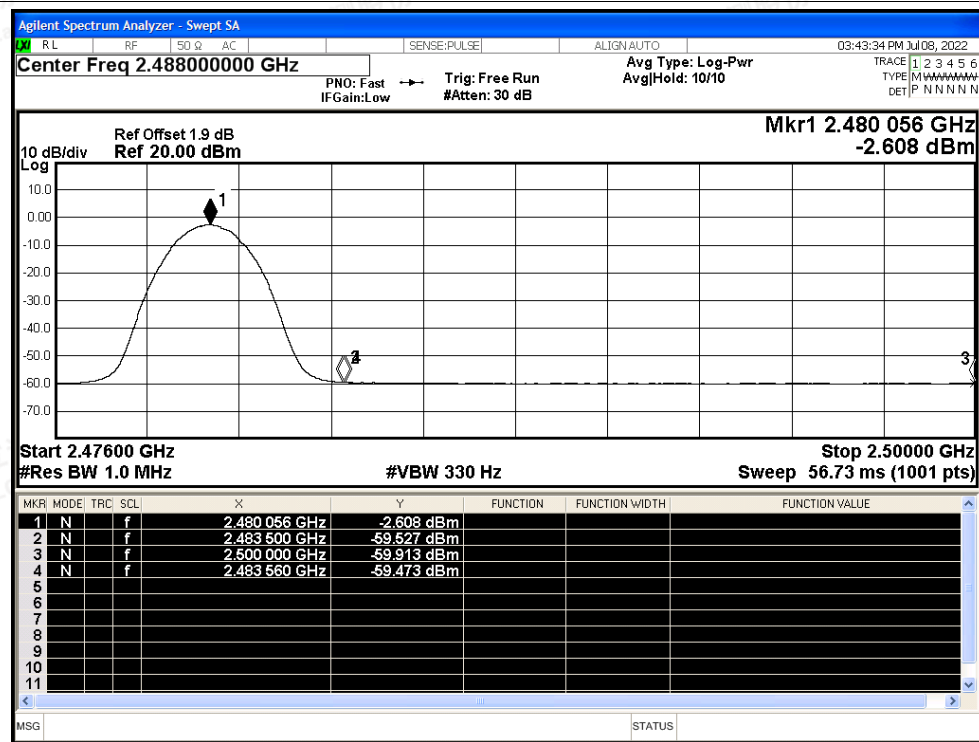
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Restrict Band NVNT 3-DH5 2480MHz Ant No-Hopping Peak



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



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