



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: INTEGRATED AMPLIFIER

Test Model: 6000A

Environmental Conditions

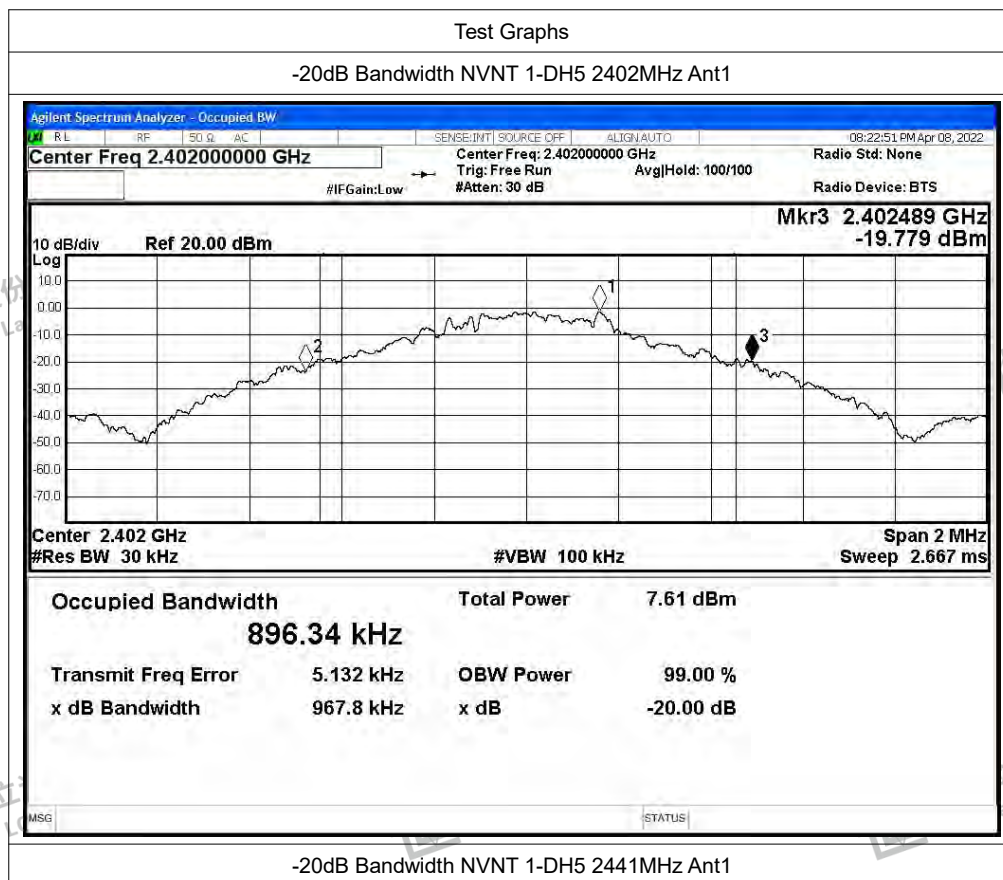
Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.968	0	Pass
NVNT	1-DH5	2441	Ant1	1.03	0	Pass
NVNT	1-DH5	2480	Ant1	1.007	0	Pass
NVNT	2-DH5	2402	Ant1	1.311	0	Pass
NVNT	2-DH5	2441	Ant1	1.313	0	Pass
NVNT	2-DH5	2480	Ant1	1.311	0	Pass
NVNT	3-DH5	2402	Ant1	1.29	0	Pass
NVNT	3-DH5	2441	Ant1	1.302	0	Pass
NVNT	3-DH5	2480	Ant1	1.277	0	Pass

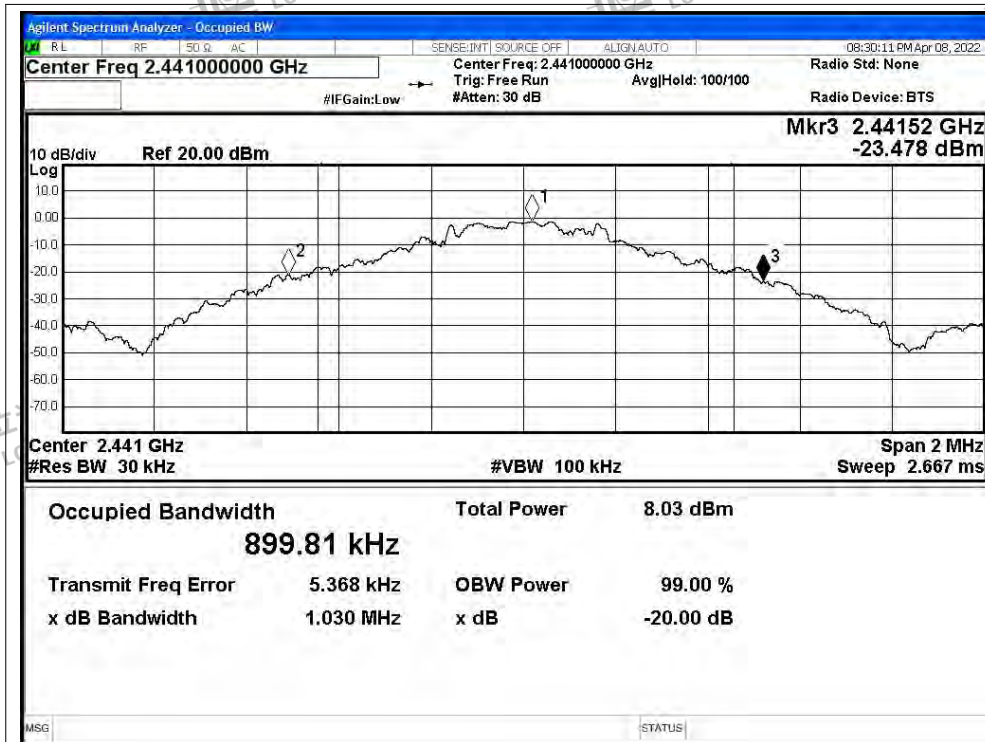


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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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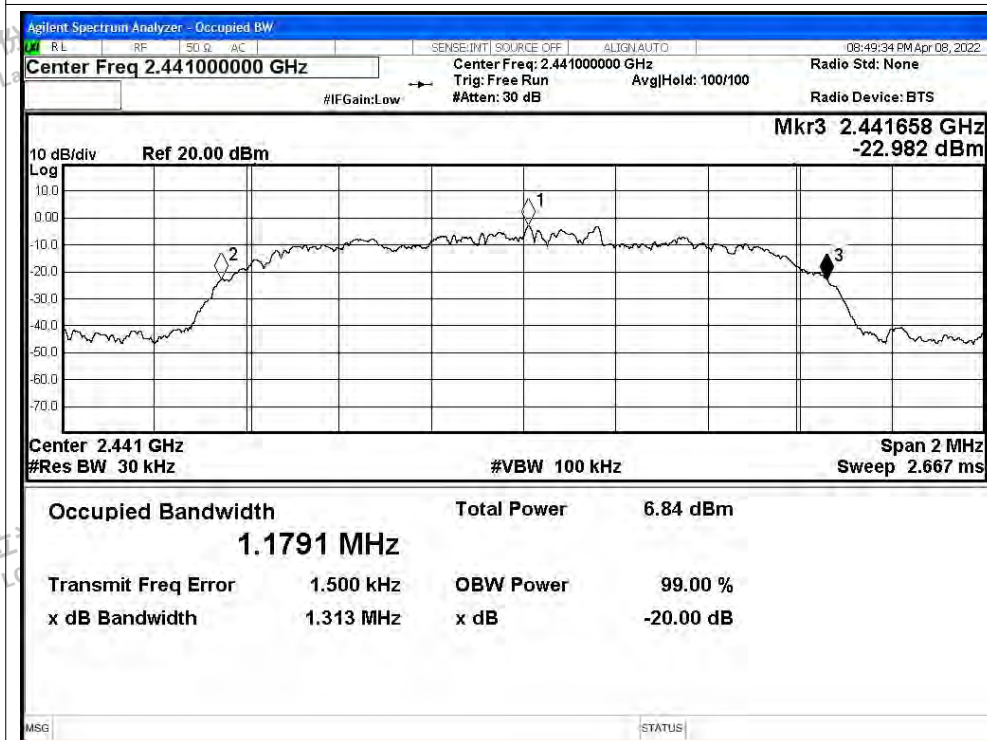
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

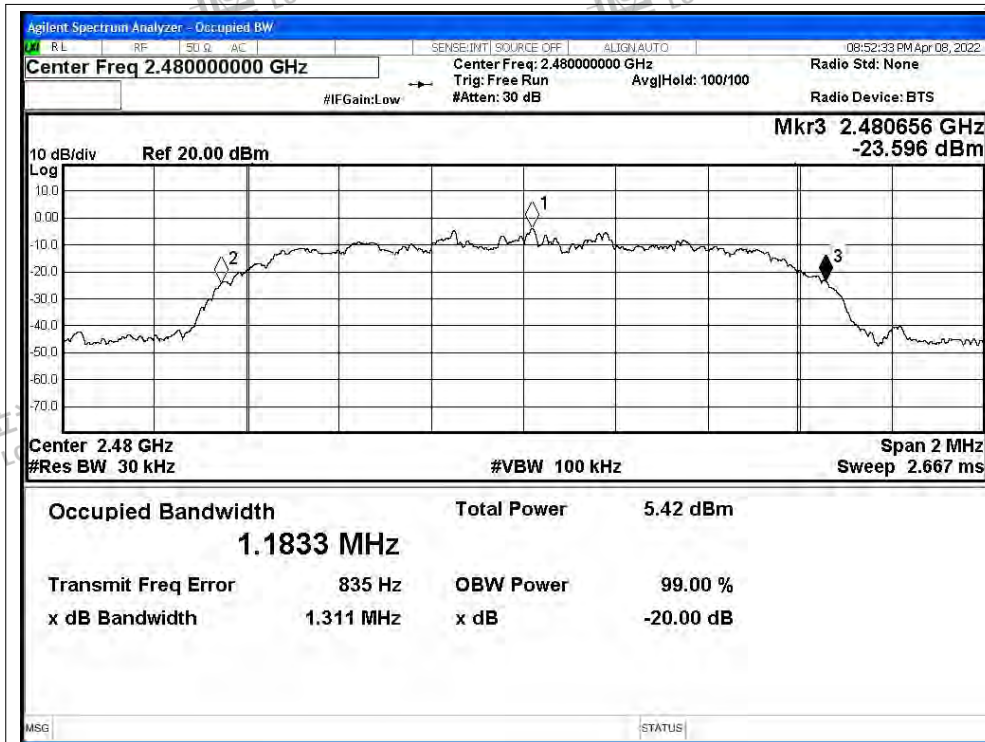


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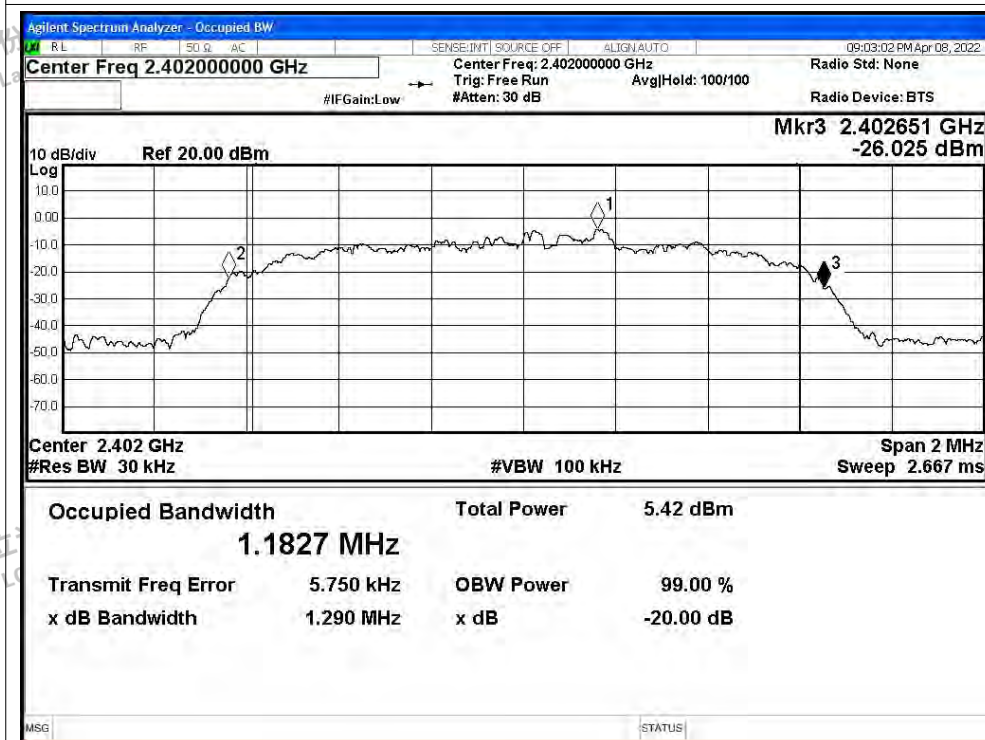
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

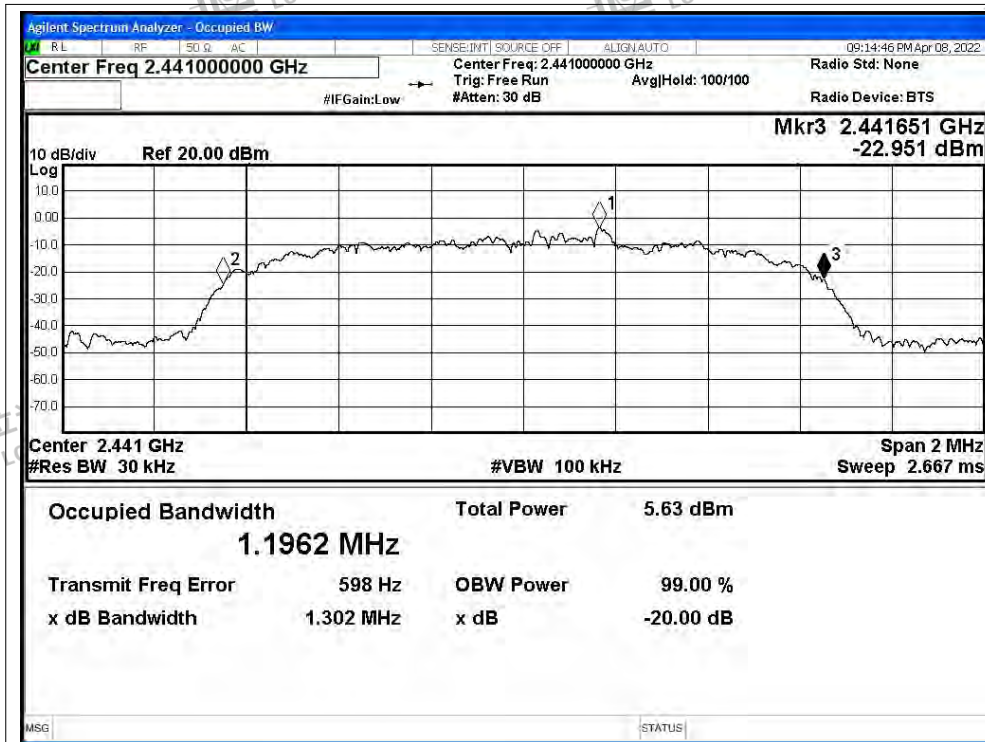


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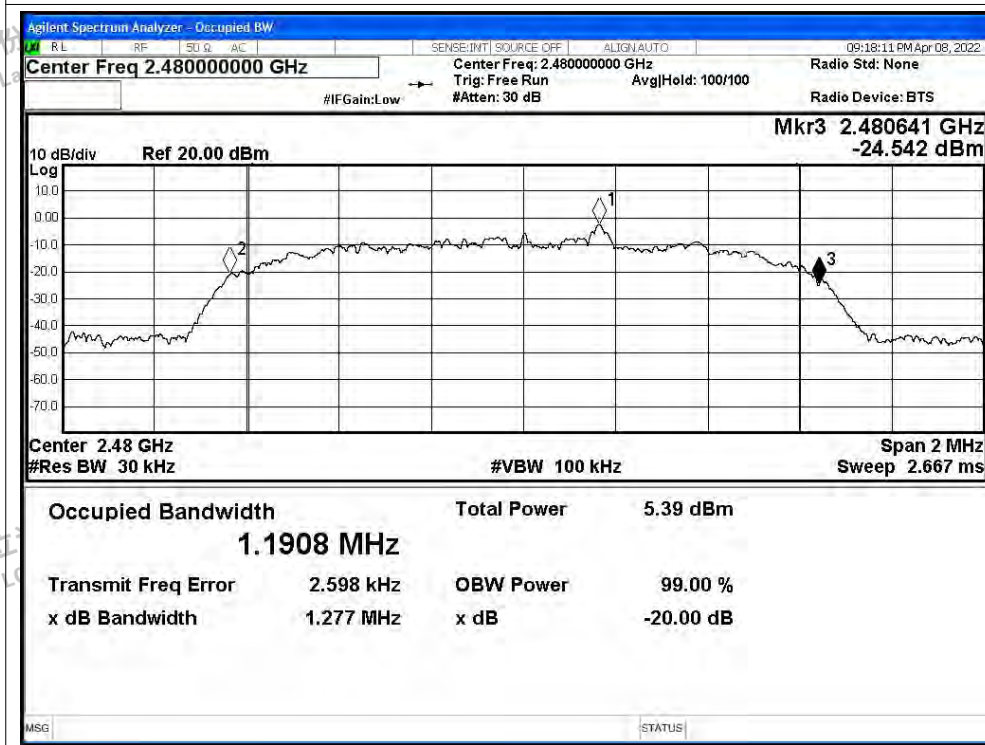
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-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



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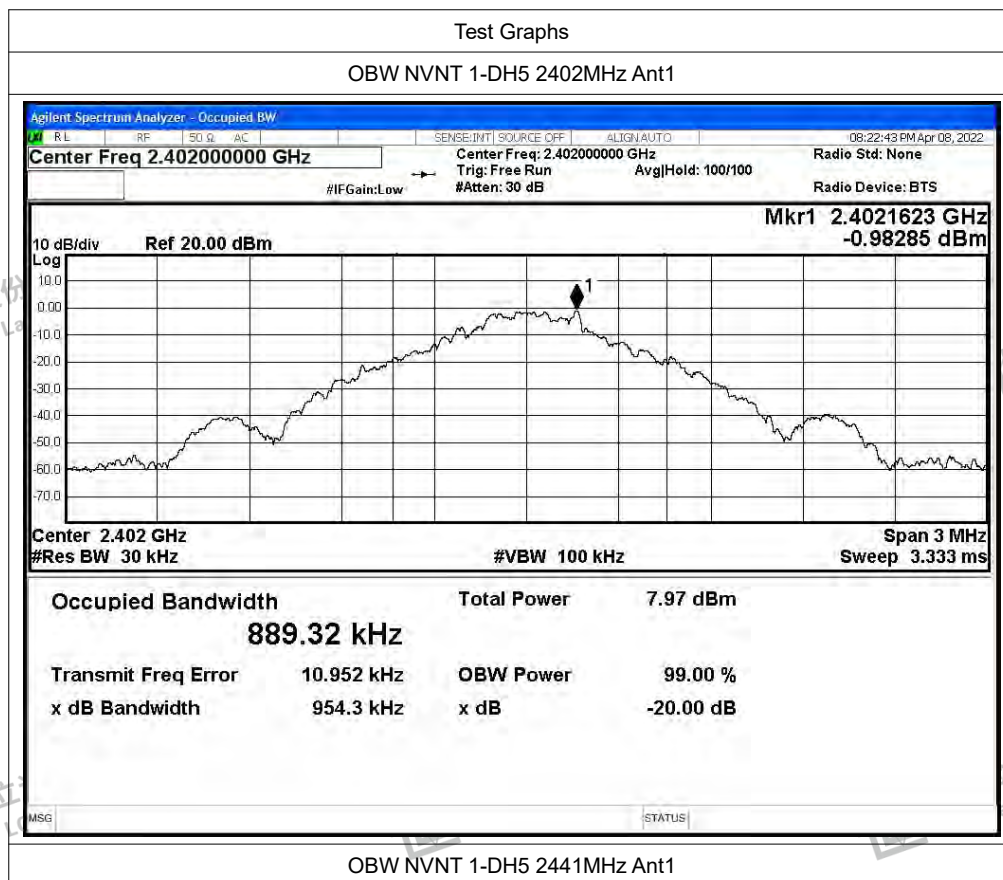
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A.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.889
NVNT	1-DH5	2441	Ant1	0.886
NVNT	1-DH5	2480	Ant1	0.901
NVNT	2-DH5	2402	Ant1	1.186
NVNT	2-DH5	2441	Ant1	1.181
NVNT	2-DH5	2480	Ant1	1.185
NVNT	3-DH5	2402	Ant1	1.193
NVNT	3-DH5	2441	Ant1	1.189
NVNT	3-DH5	2480	Ant1	1.193



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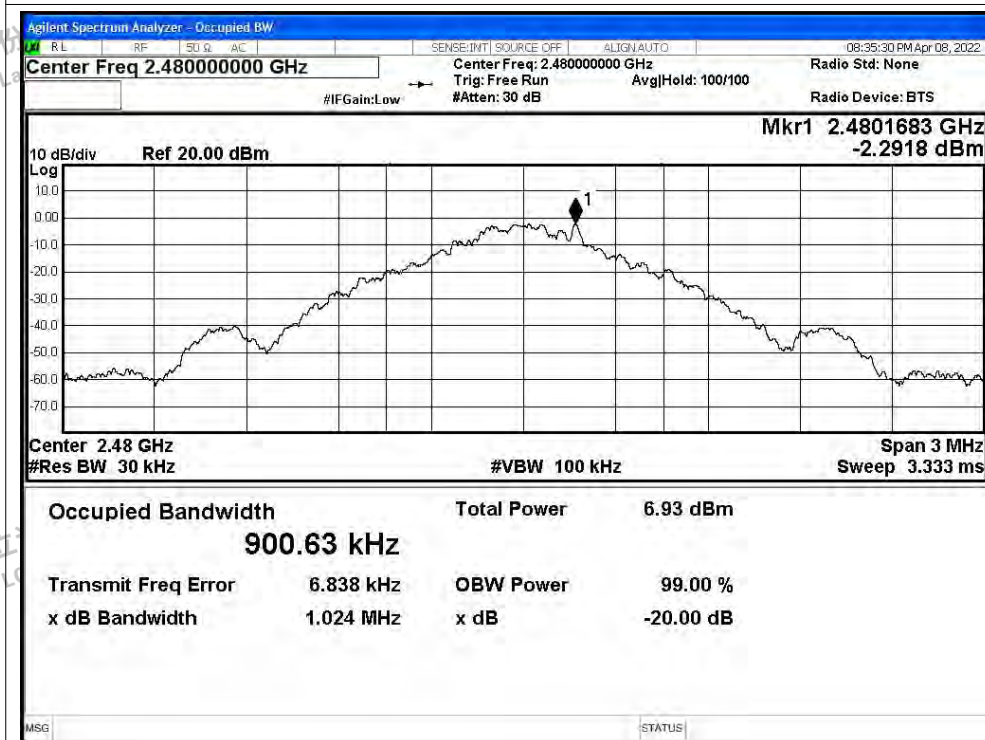
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OBW NVNT 1-DH5 2480MHz Ant1



OBW NVNT 2-DH5 2402MHz Ant1

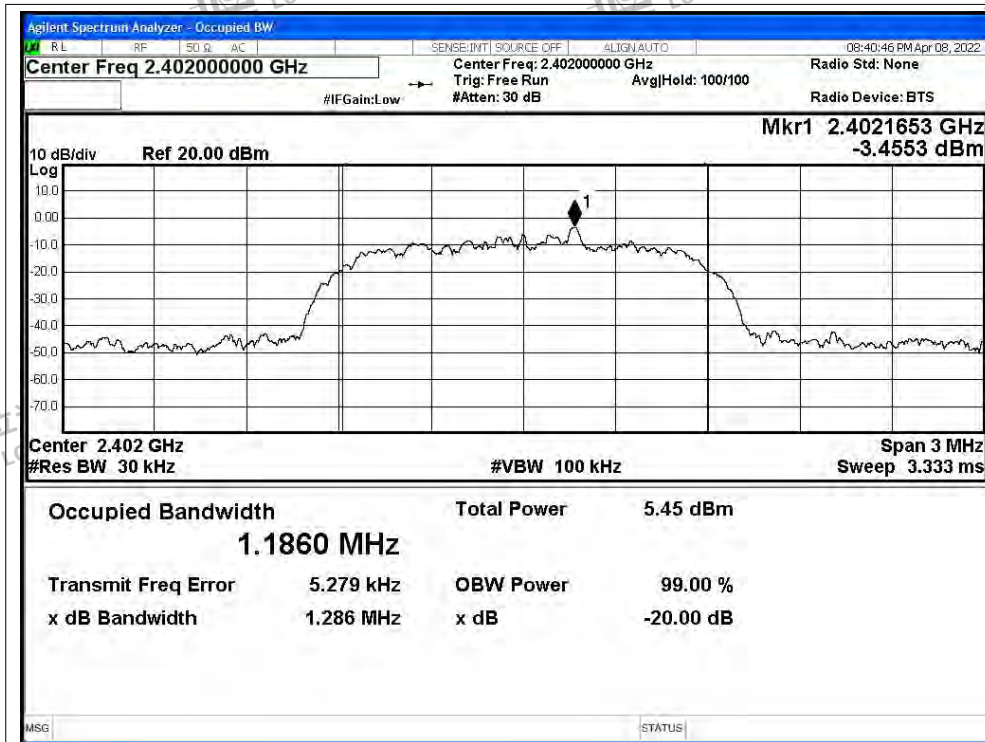


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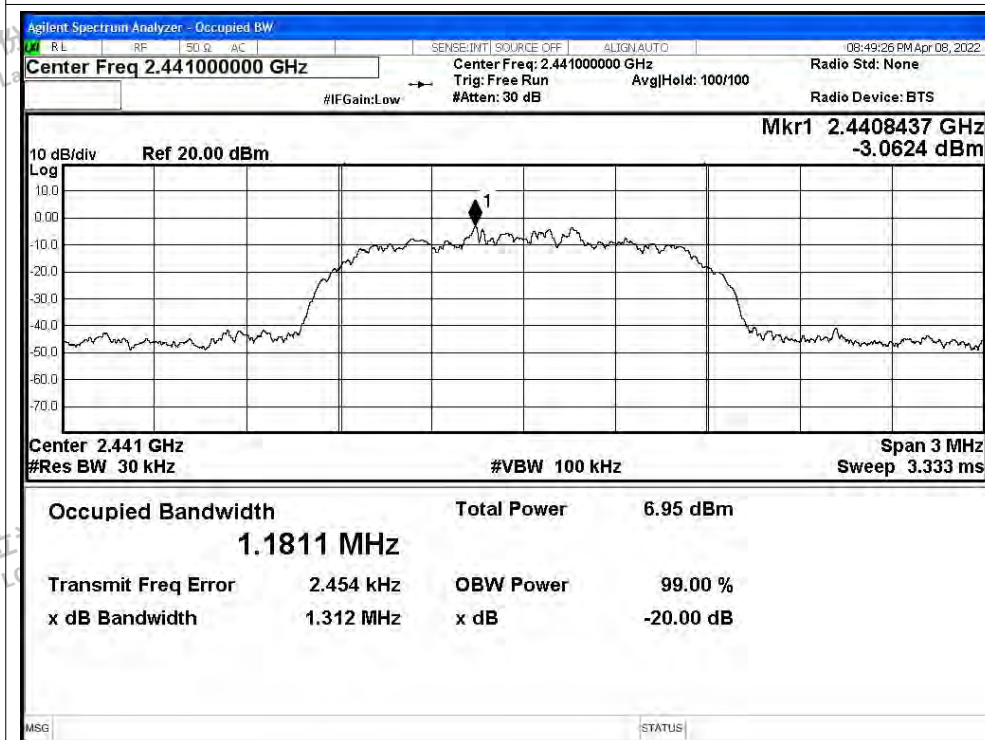
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OBW NVNT 2-DH5 2441MHz Ant1



OBW NVNT 2-DH5 2480MHz Ant1

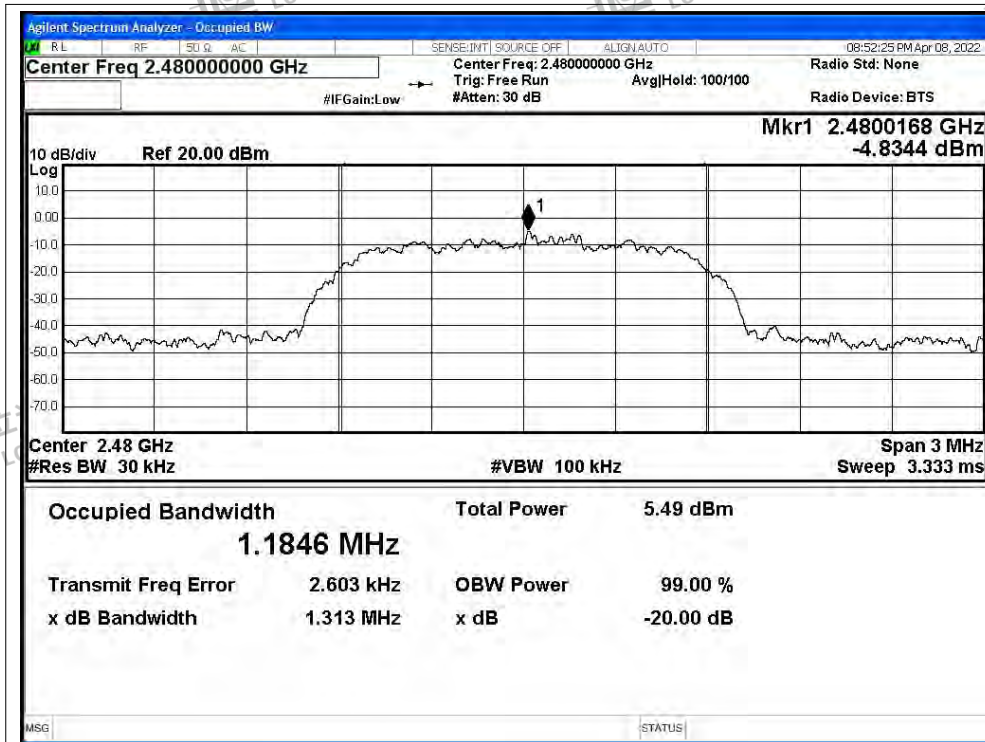


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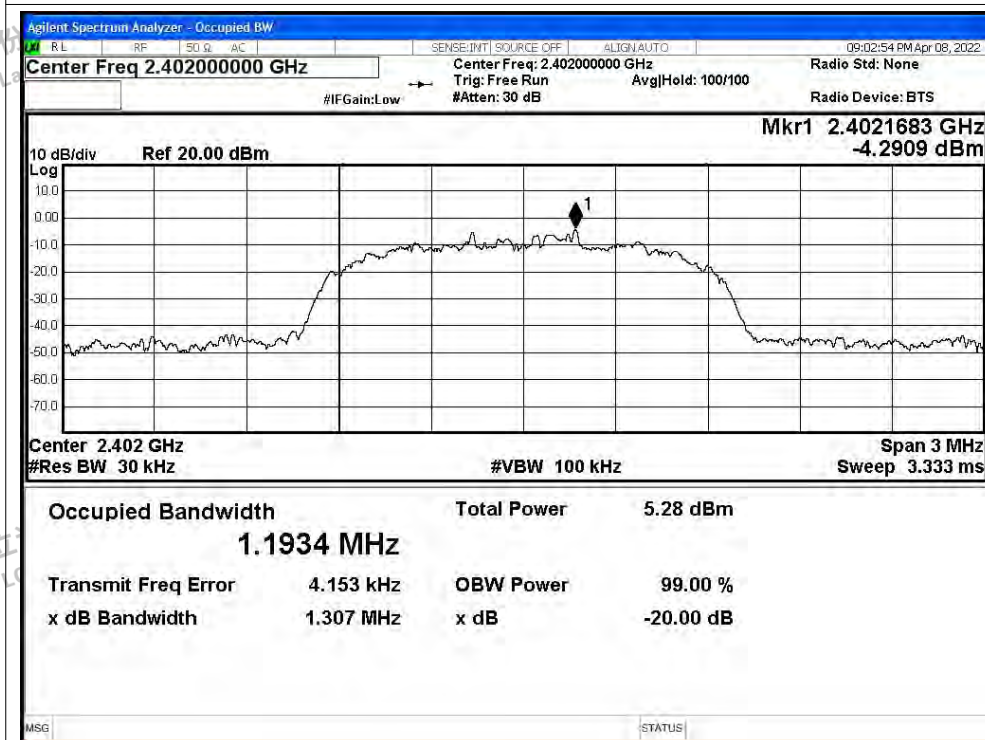
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OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1

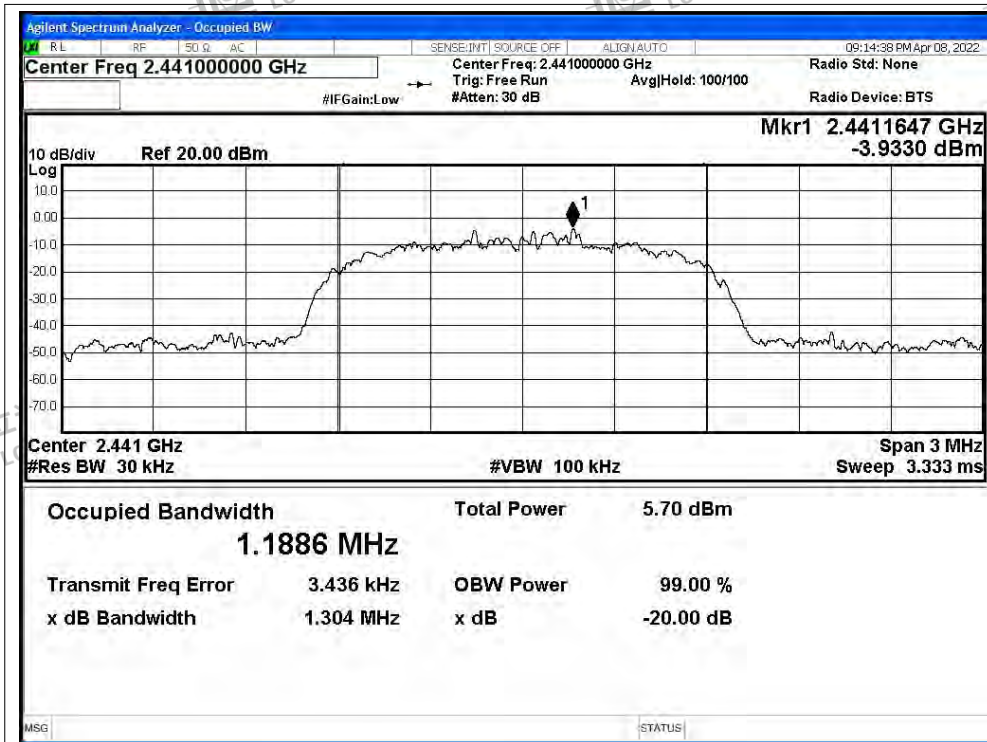


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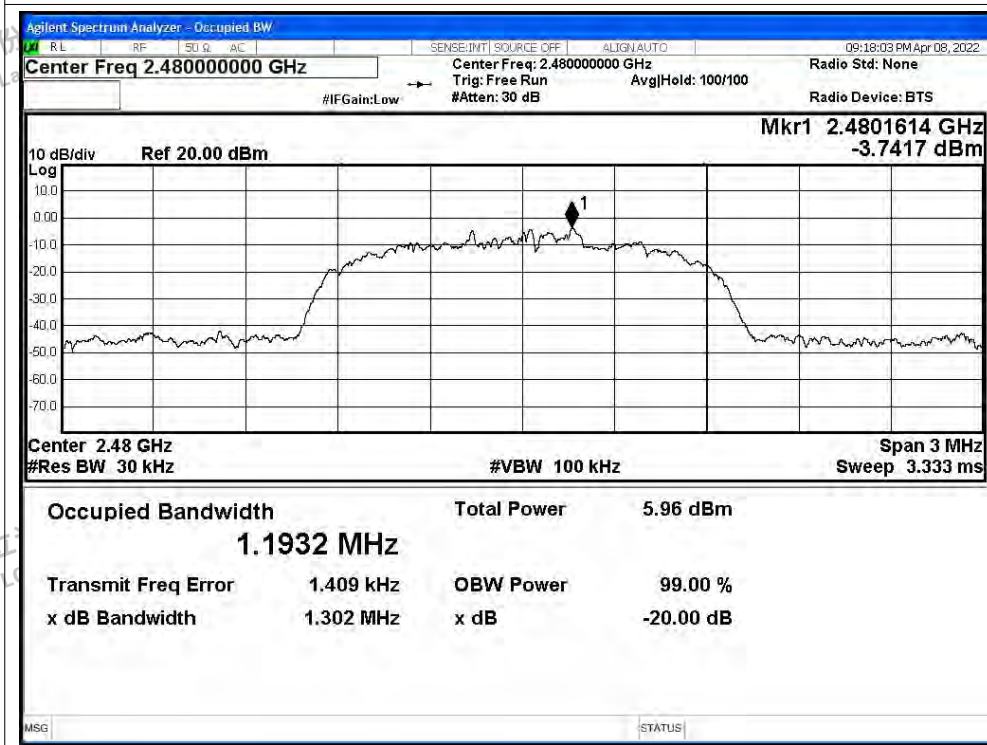
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OBW NVNT 3-DH5 2480MHz Ant1



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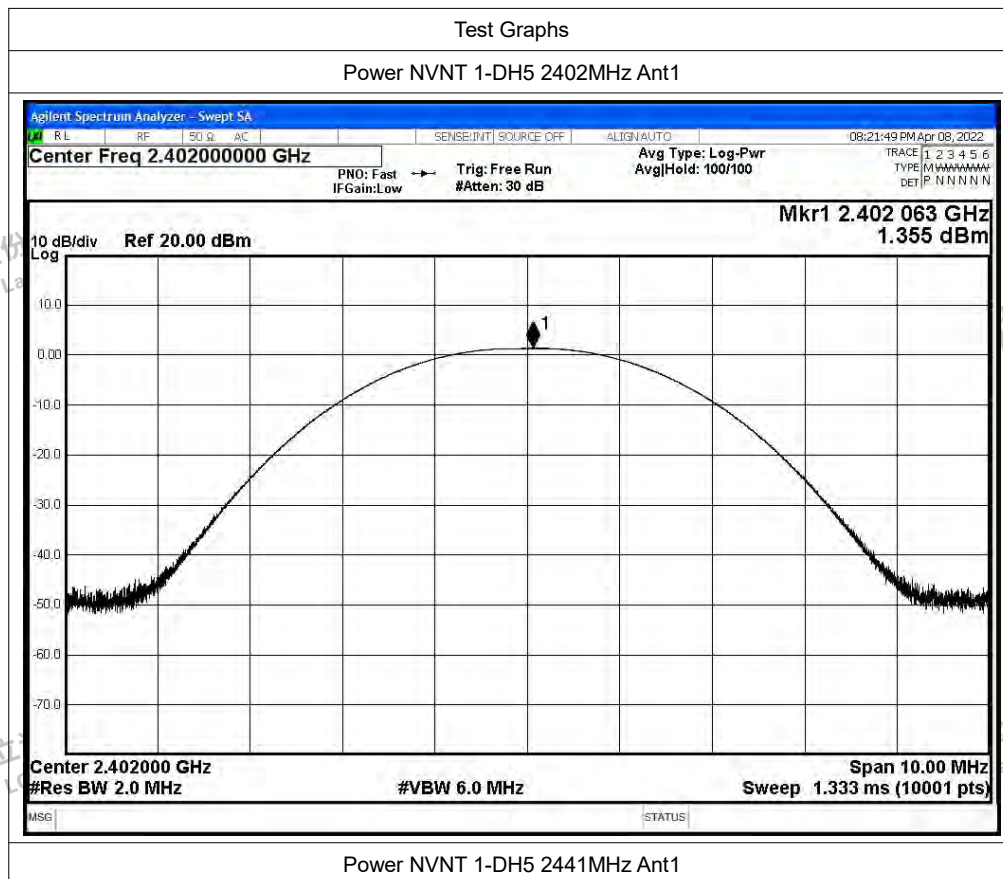
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A.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.36	0	1.36	21	Pass
NVNT	1-DH5	2441	Ant1	1.64	0	1.64	21	Pass
NVNT	1-DH5	2480	Ant1	0.39	0	0.39	21	Pass
NVNT	2-DH5	2402	Ant1	0.45	0	0.45	21	Pass
NVNT	2-DH5	2441	Ant1	1.98	0	1.98	21	Pass
NVNT	2-DH5	2480	Ant1	0.73	0	0.73	21	Pass
NVNT	3-DH5	2402	Ant1	0.55	0	0.55	21	Pass
NVNT	3-DH5	2441	Ant1	1.01	0	1.01	21	Pass
NVNT	3-DH5	2480	Ant1	0.86	0	0.86	21	Pass

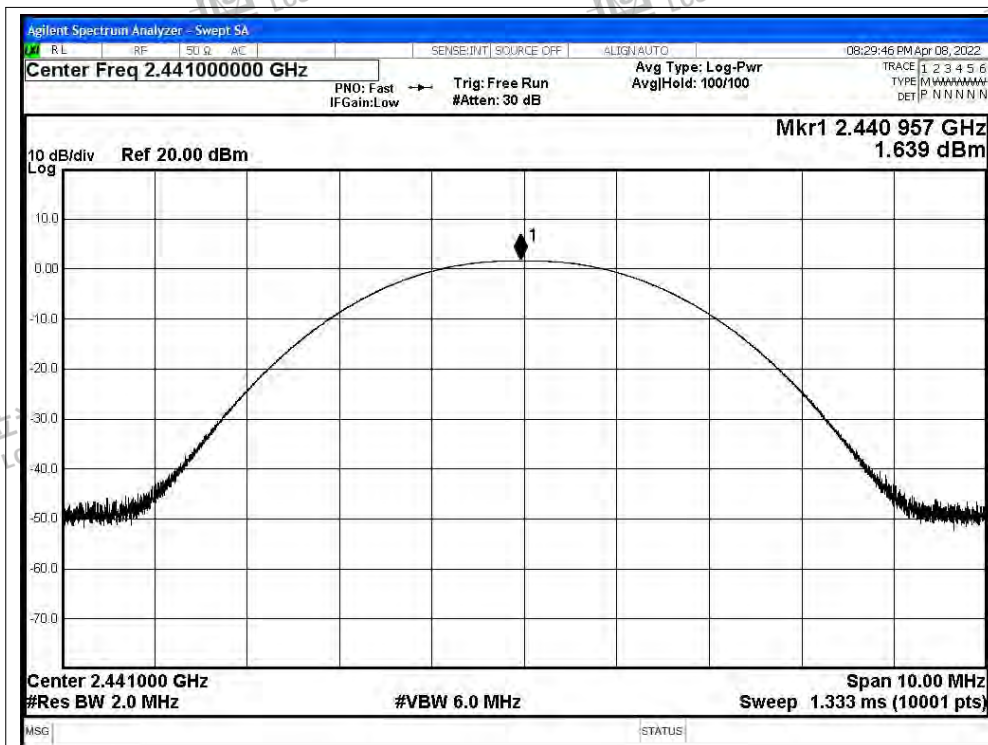


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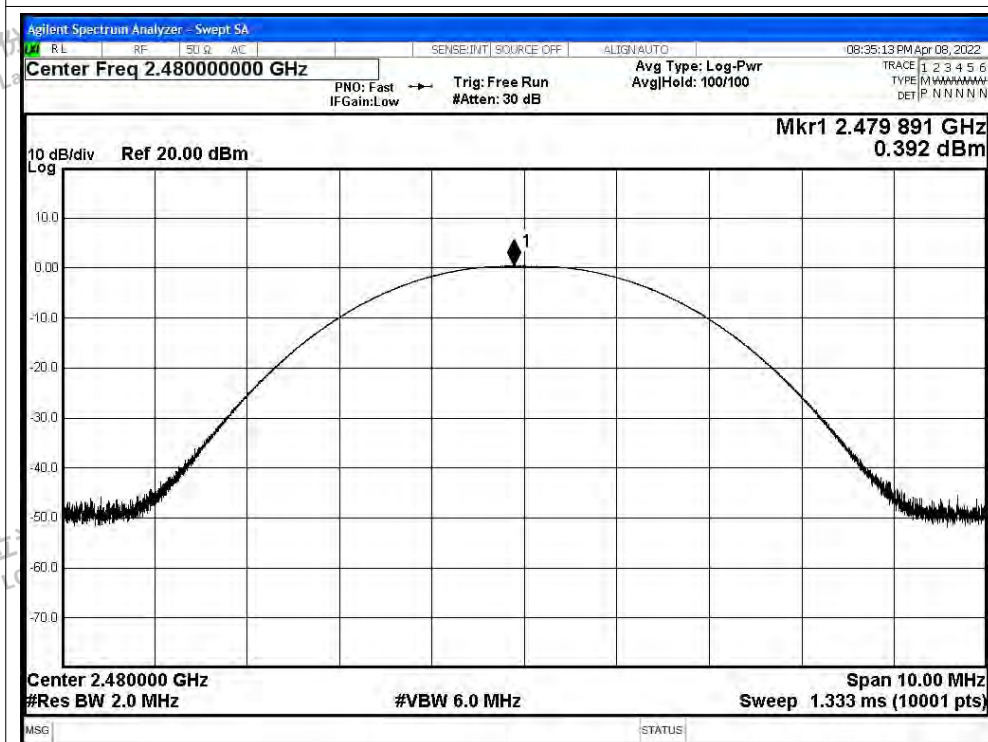
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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1

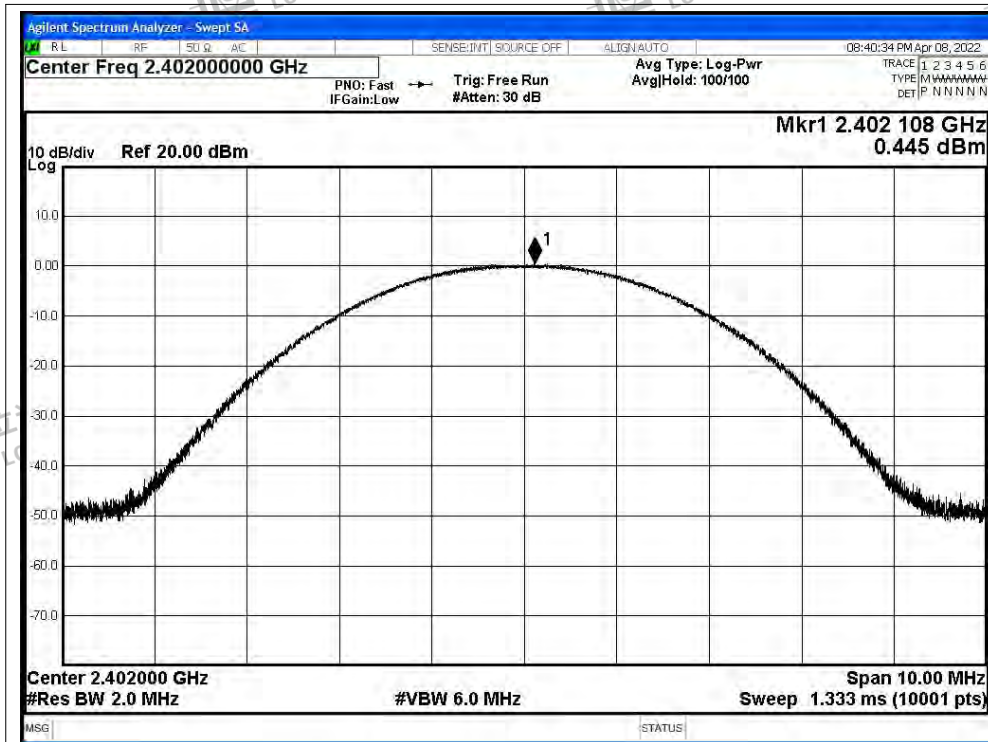


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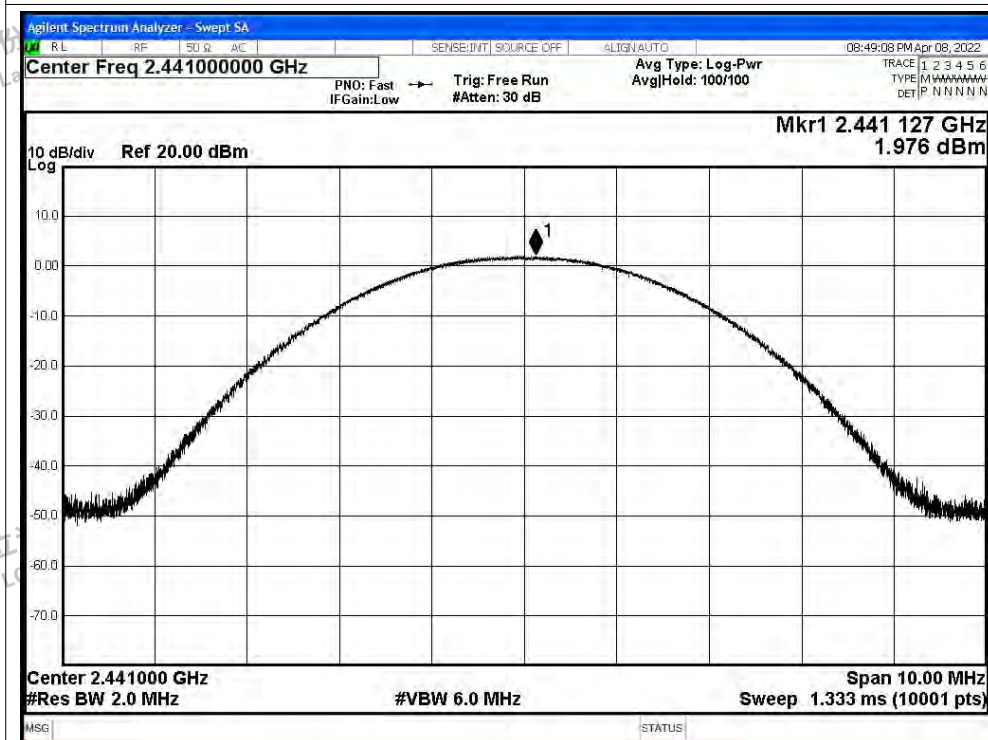
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Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1

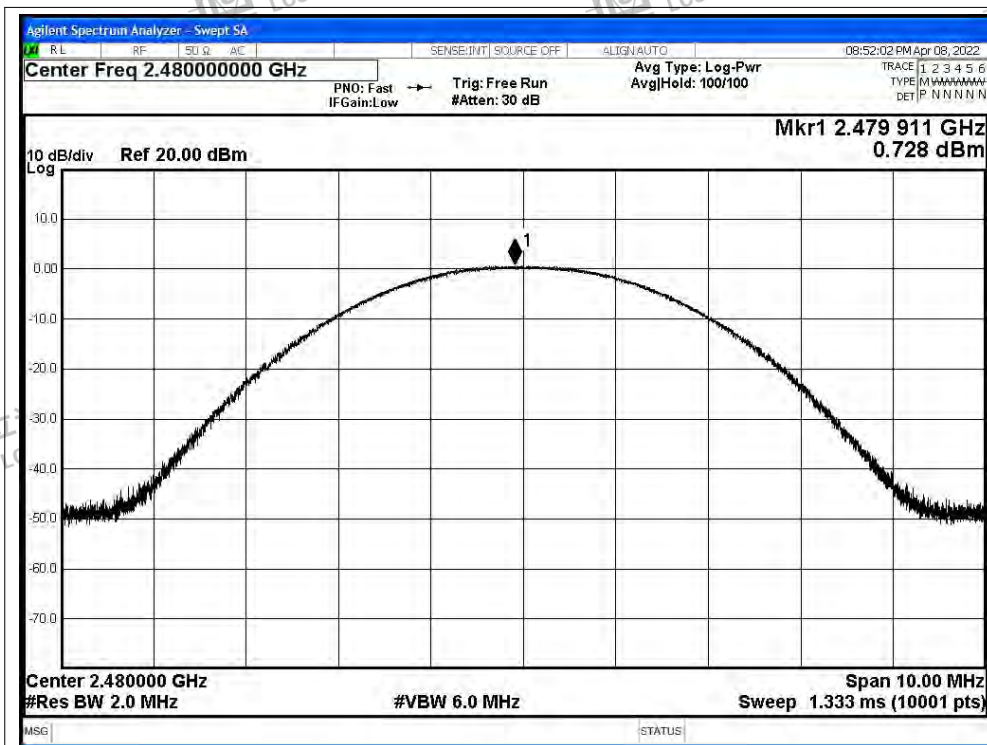


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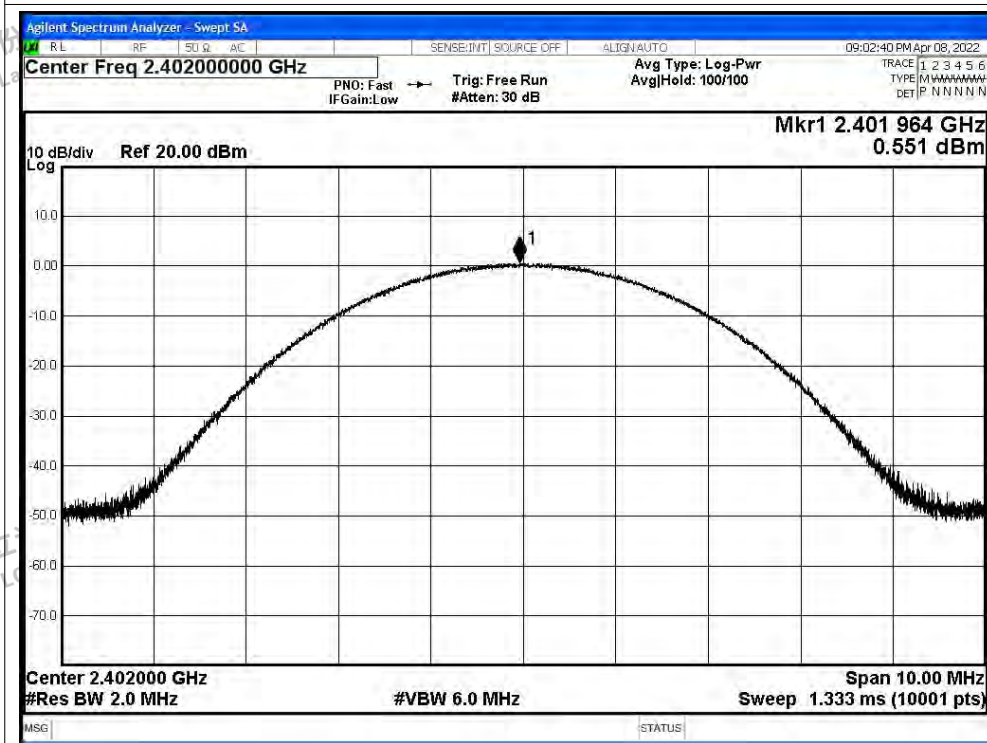
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Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

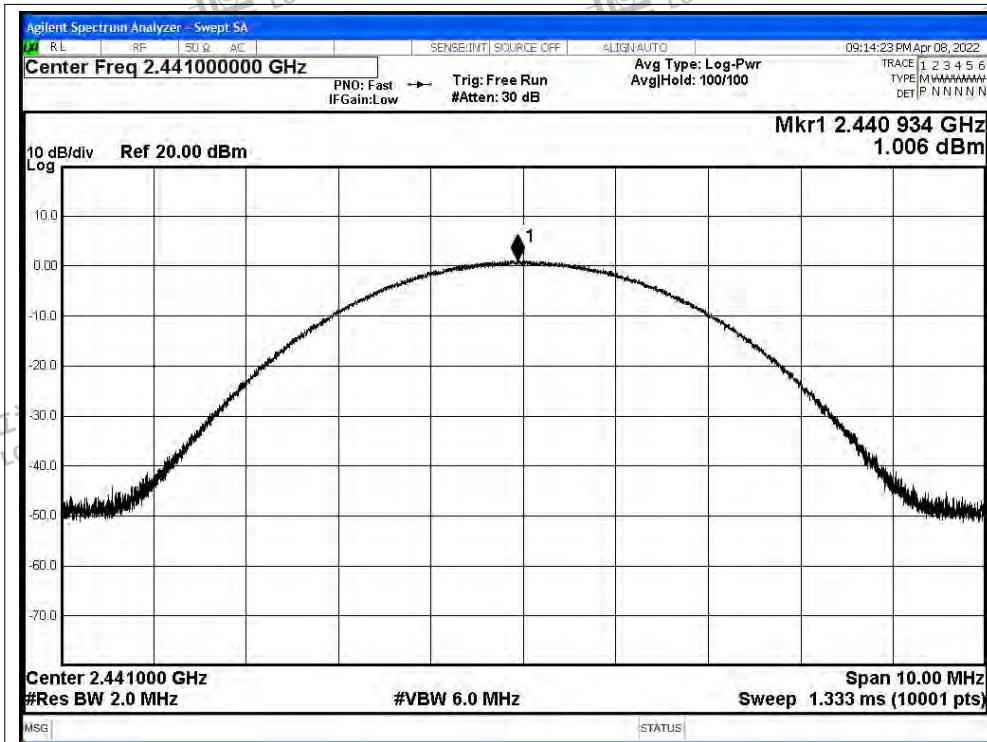


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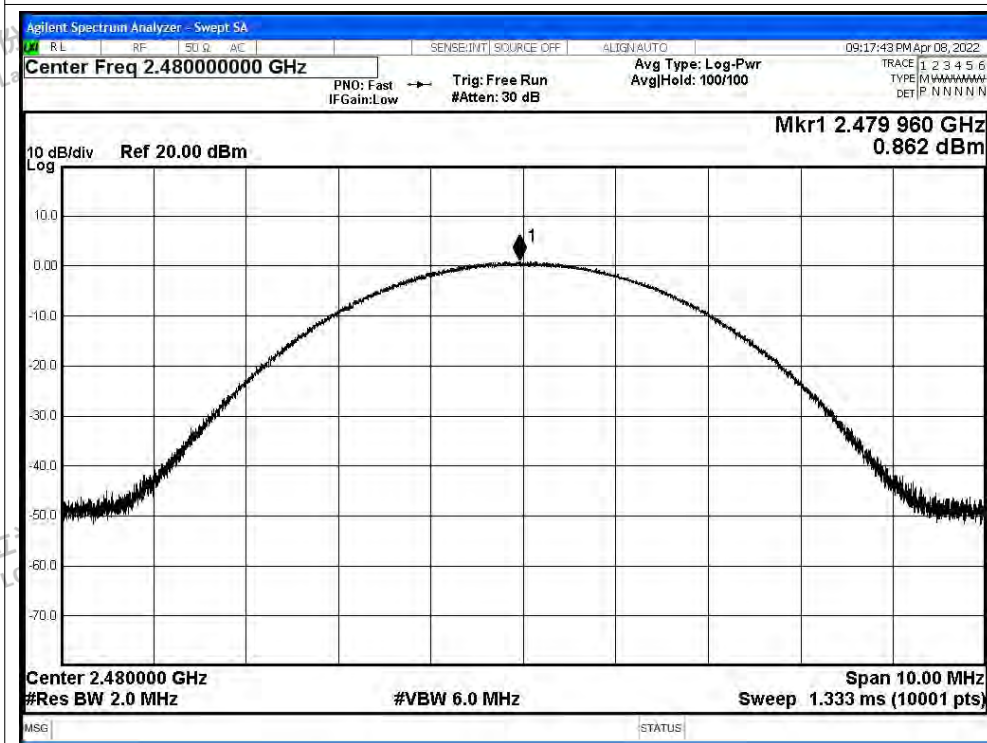
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Power NVNT 3-DH5 2480MHz Ant1



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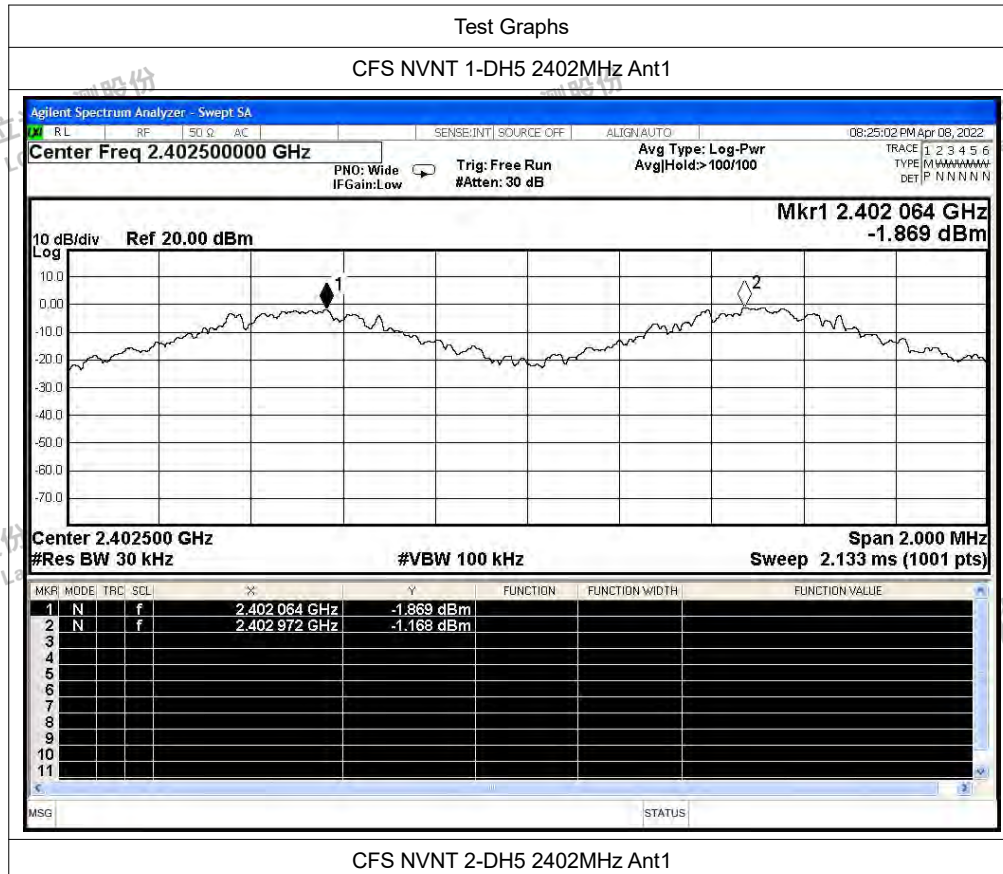
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A.4 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.064	2402.972	0.908	0.645	Pass
NVNT	2-DH5	Ant1	2402.02	2403.024	1.004	0.874	Pass
NVNT	3-DH5	Ant1	2402.164	2403.168	1.004	0.86	Pass

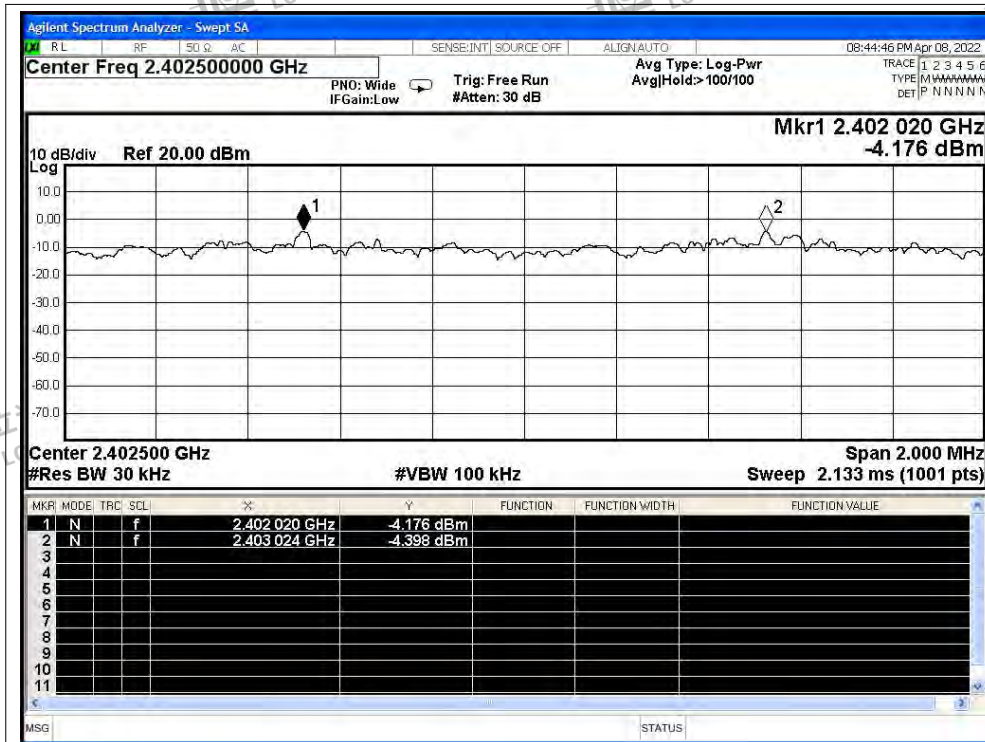


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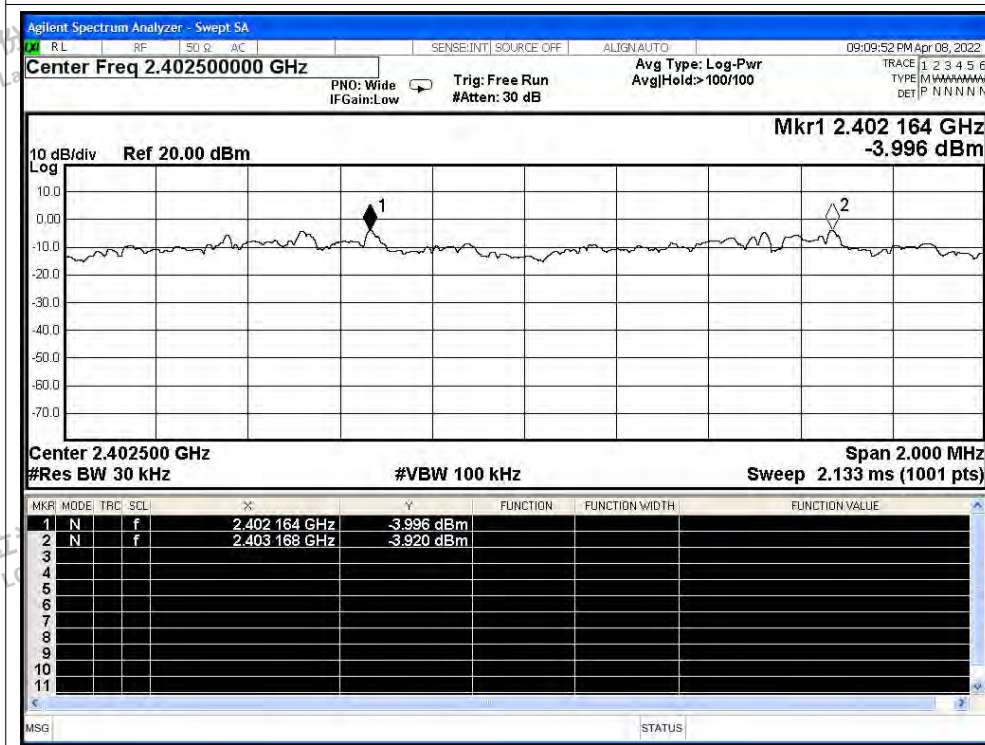
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CFS NVNT 3-DH5 2402MHz Ant1



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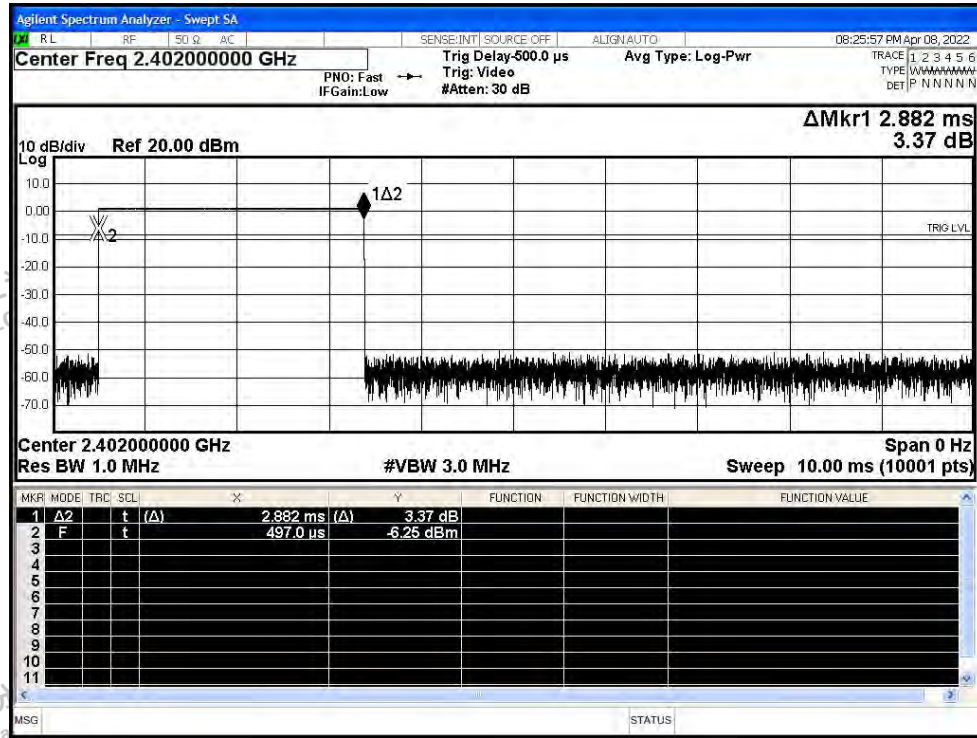
A.5 Dwell Time

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	293.964	102	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.88	328.32	114	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.88	339.84	118	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.881	296.743	103	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.883	302.715	105	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.883	279.651	97	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	349.206	121	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.886	297.258	103	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	343.553	119	31600	400	Pass

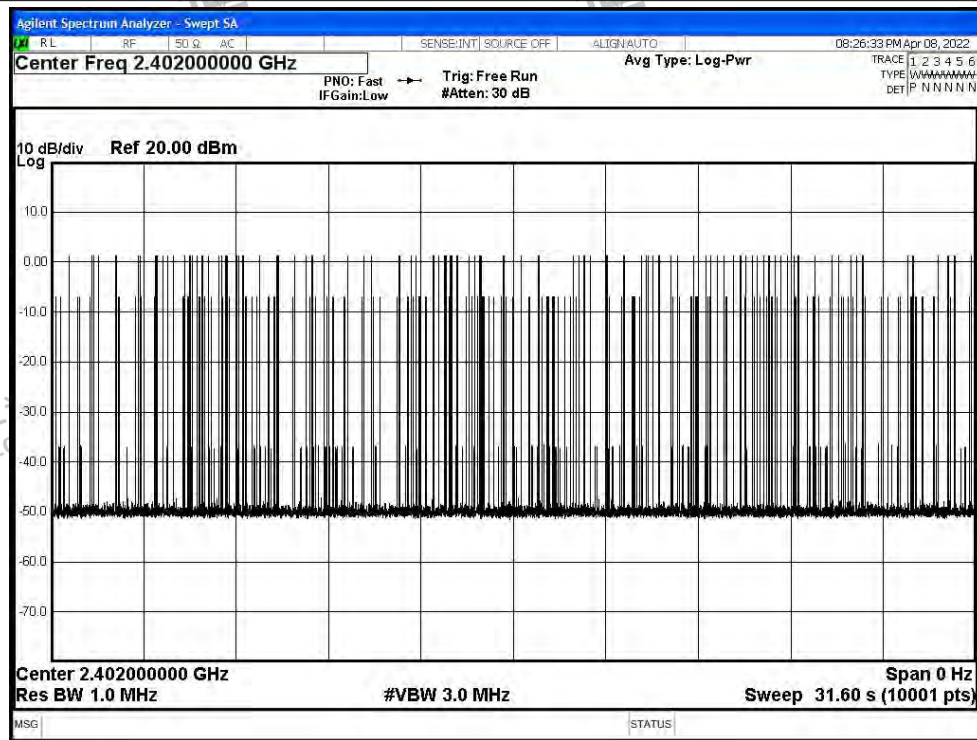


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



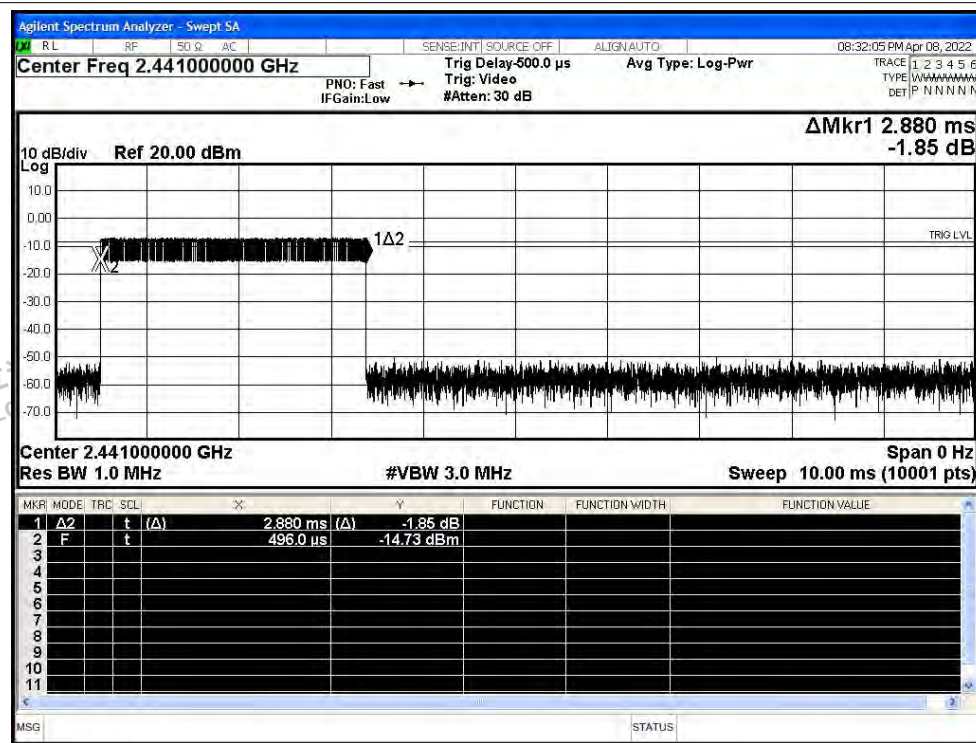
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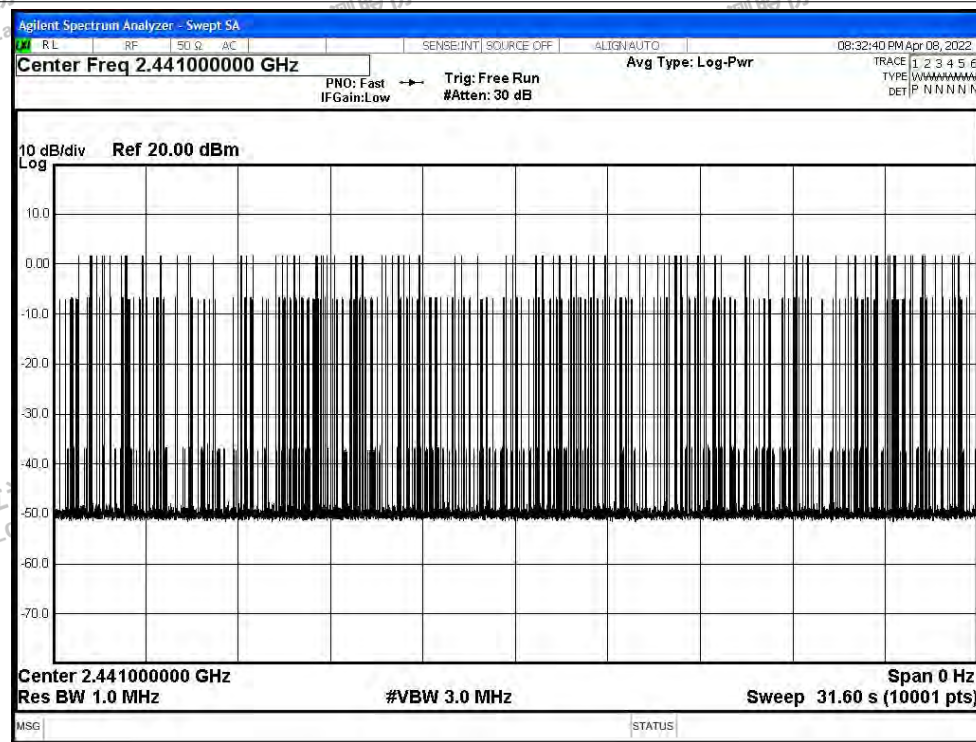
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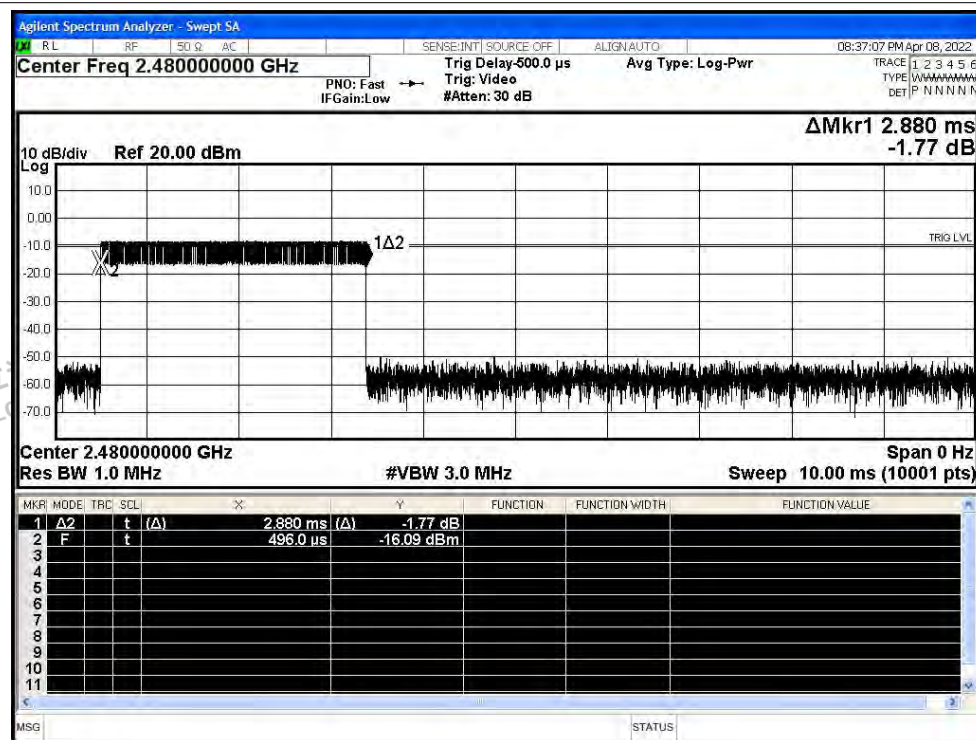
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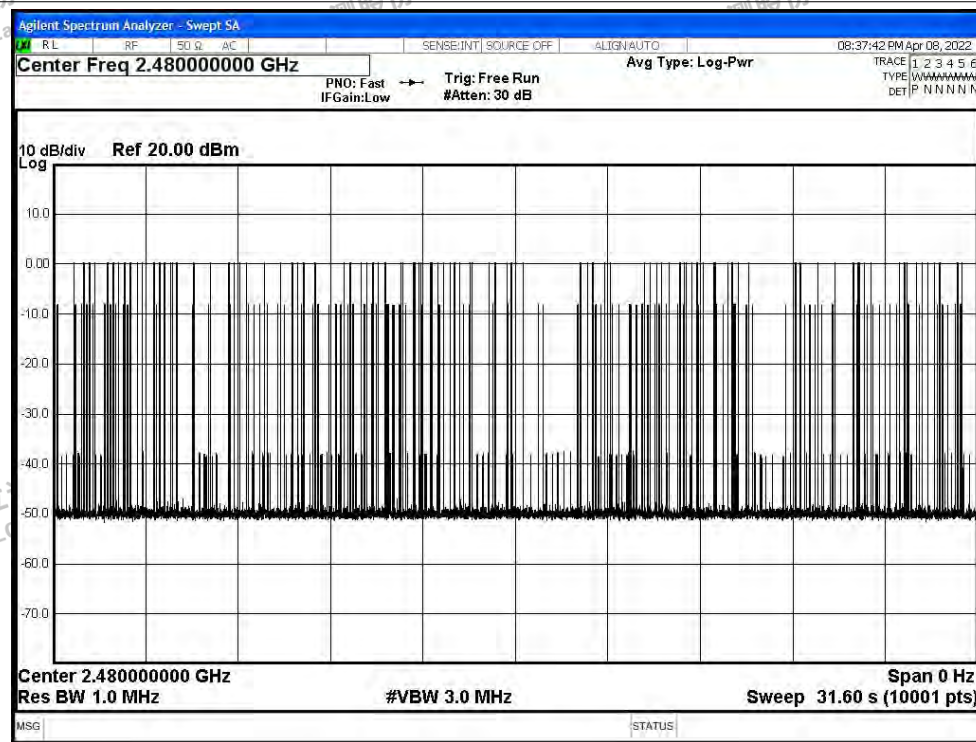
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Dwell NVNT 1-DH5 2480MHz Ant1 One Burst



Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated



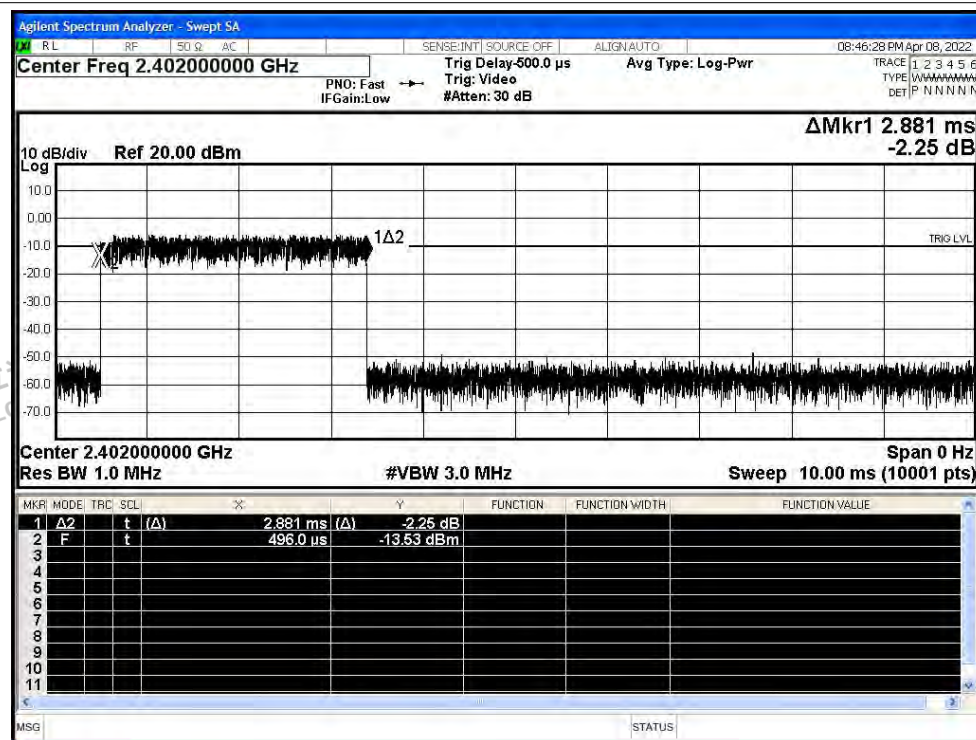
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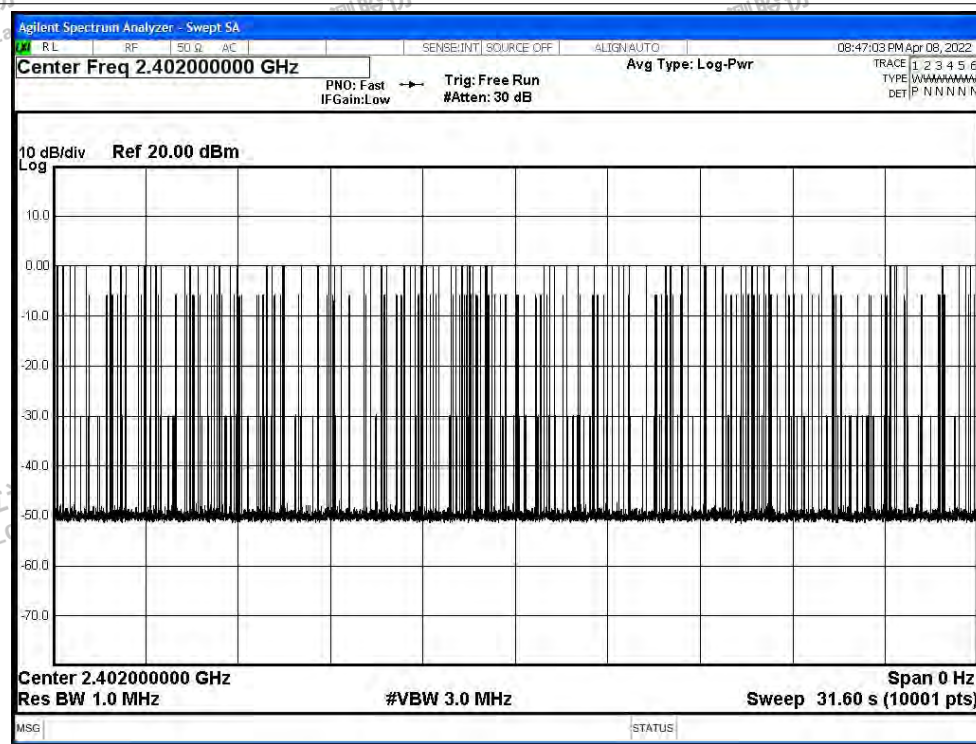
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Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



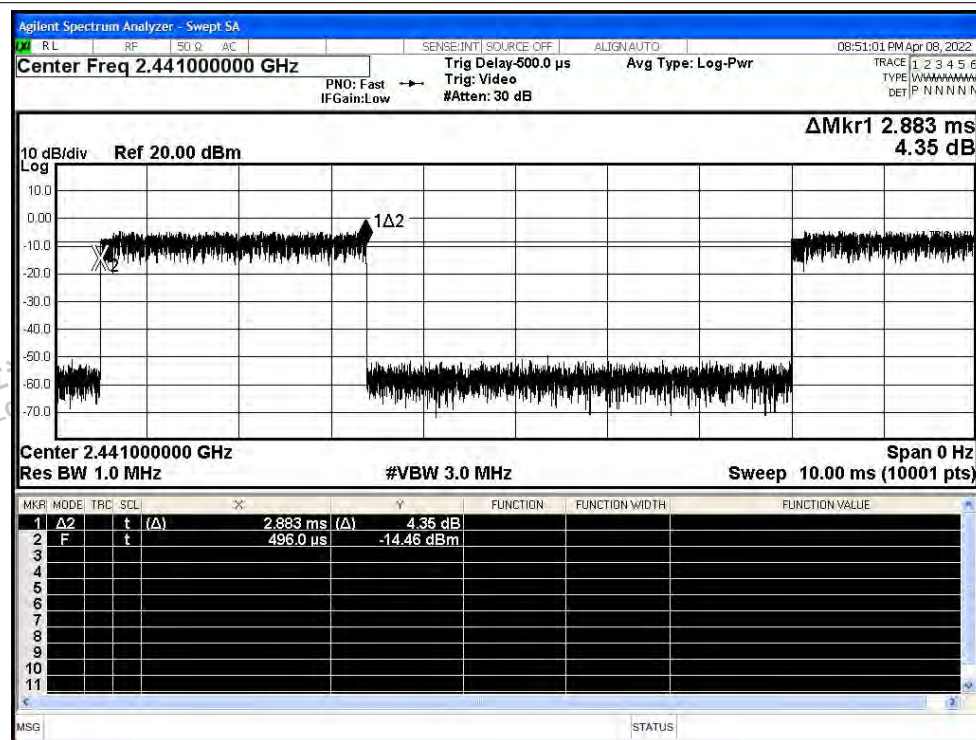
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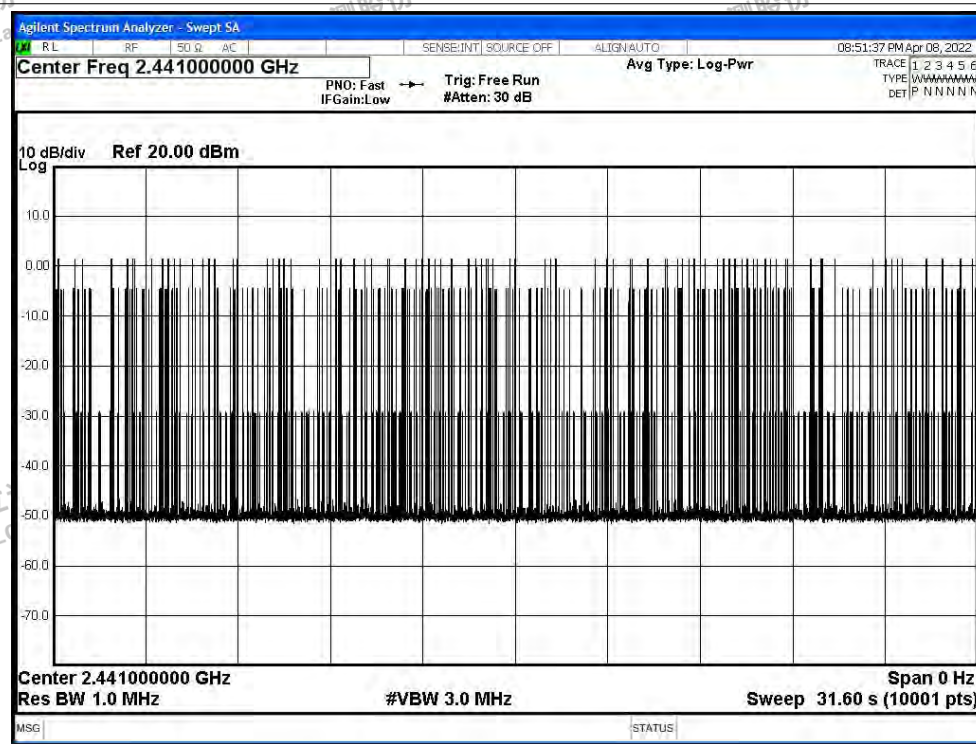
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Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



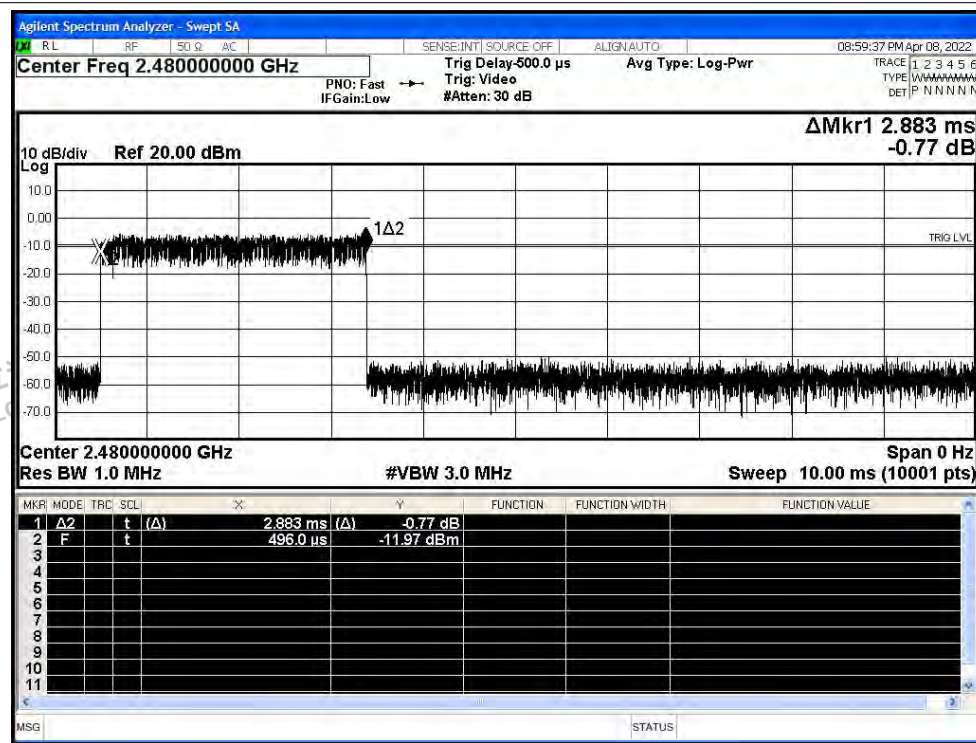
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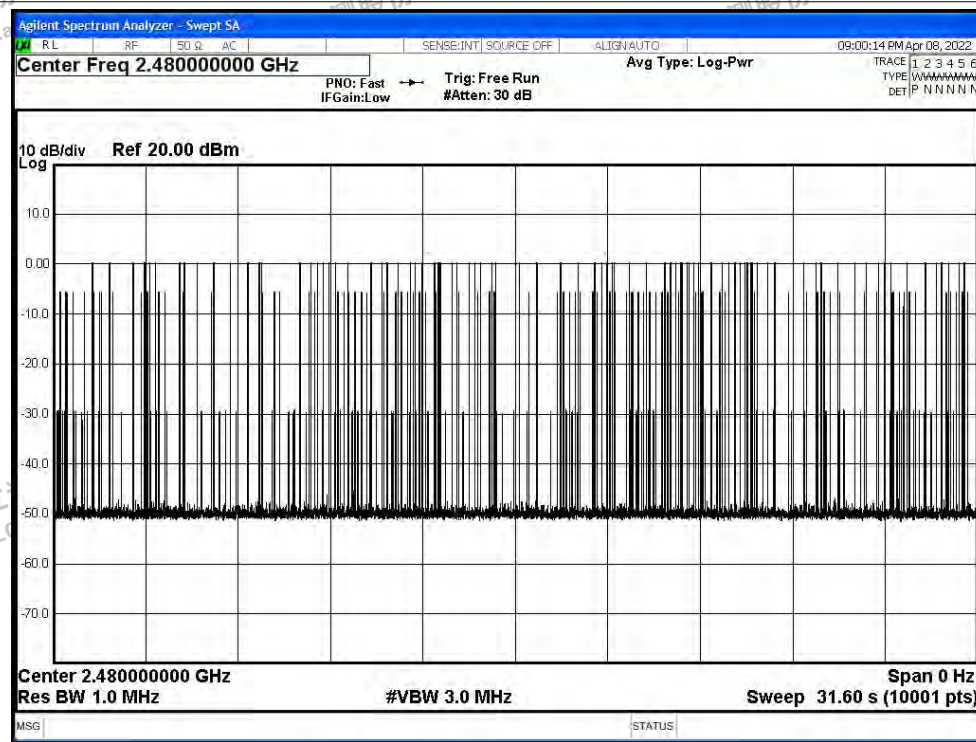
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Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated



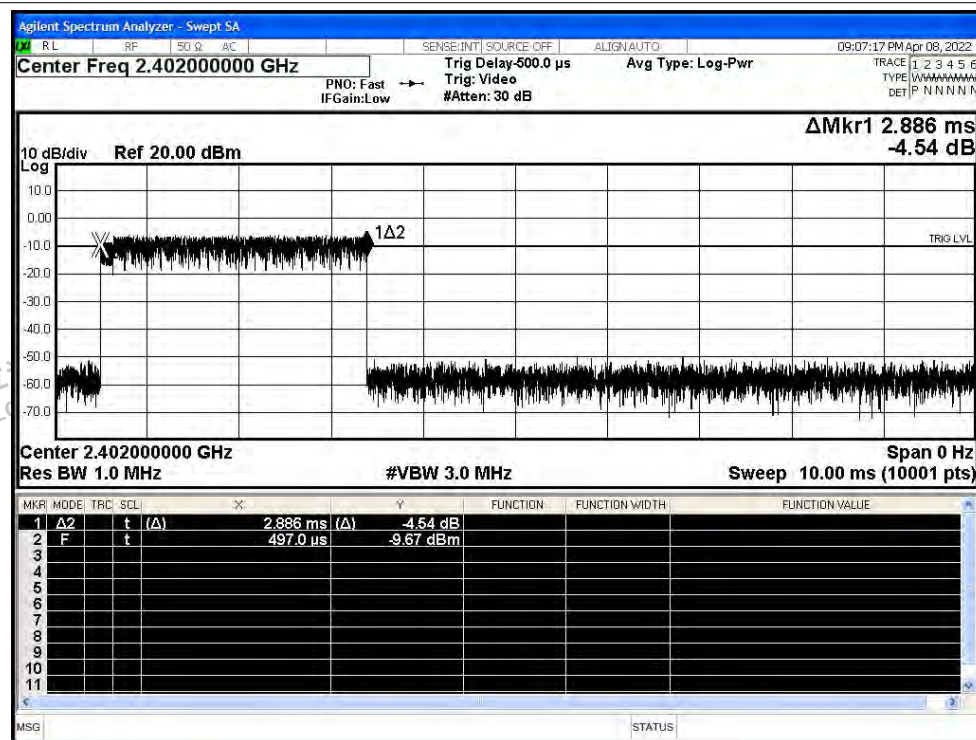
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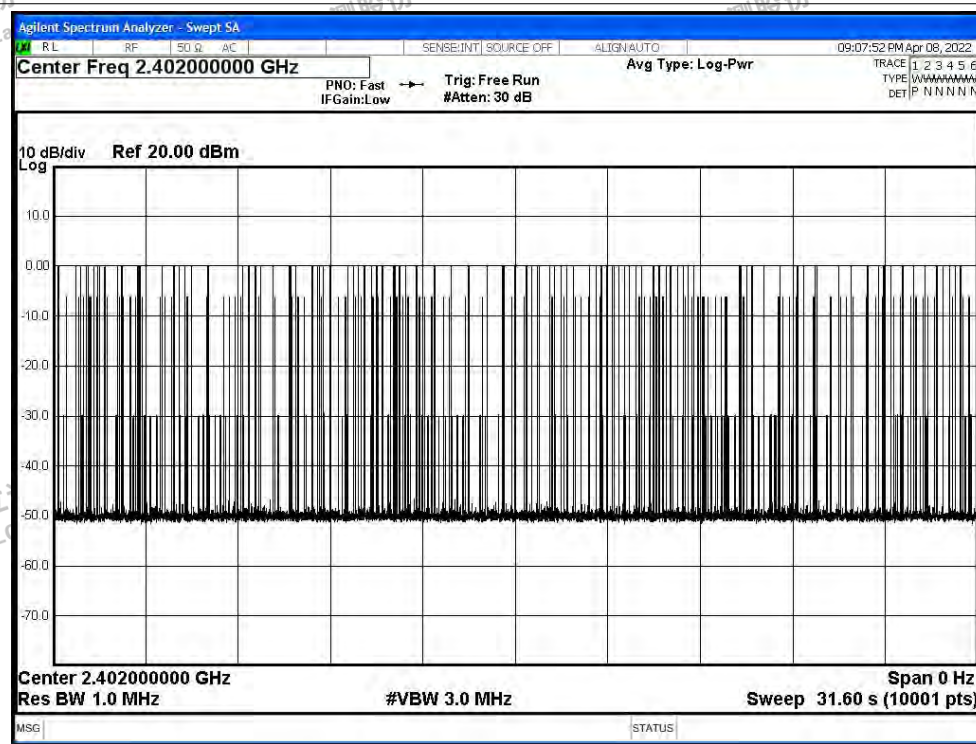
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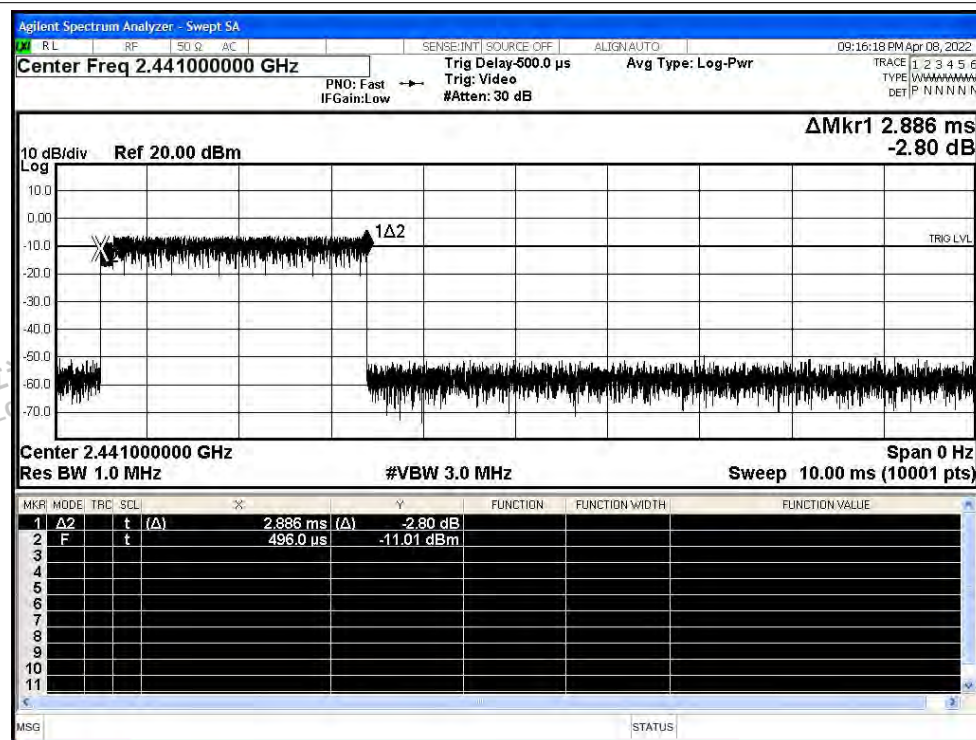
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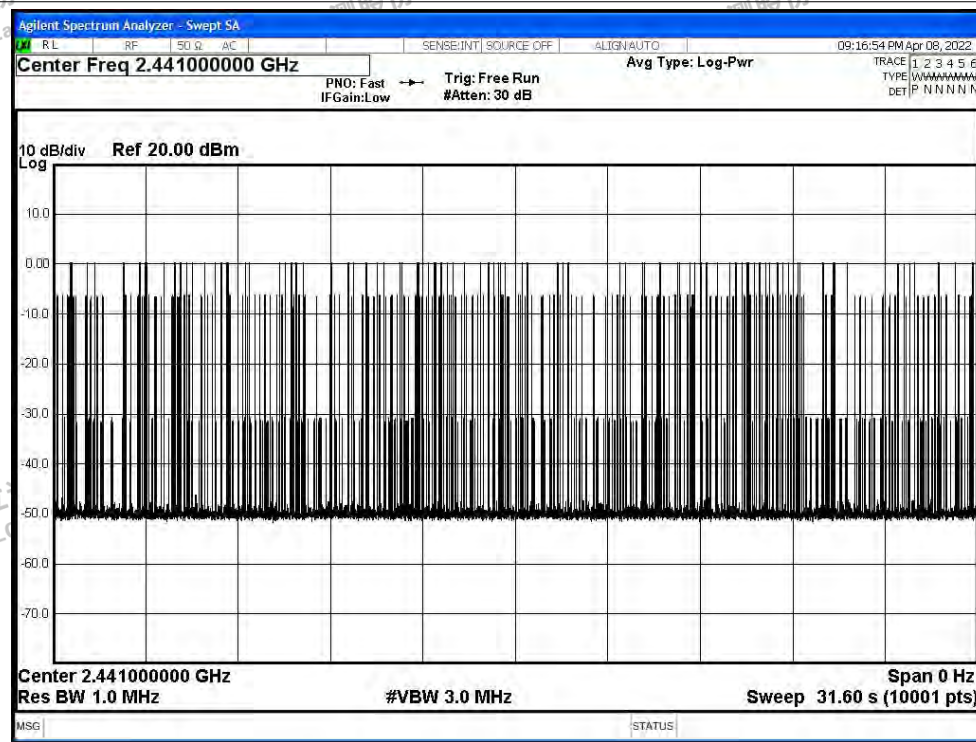
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Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



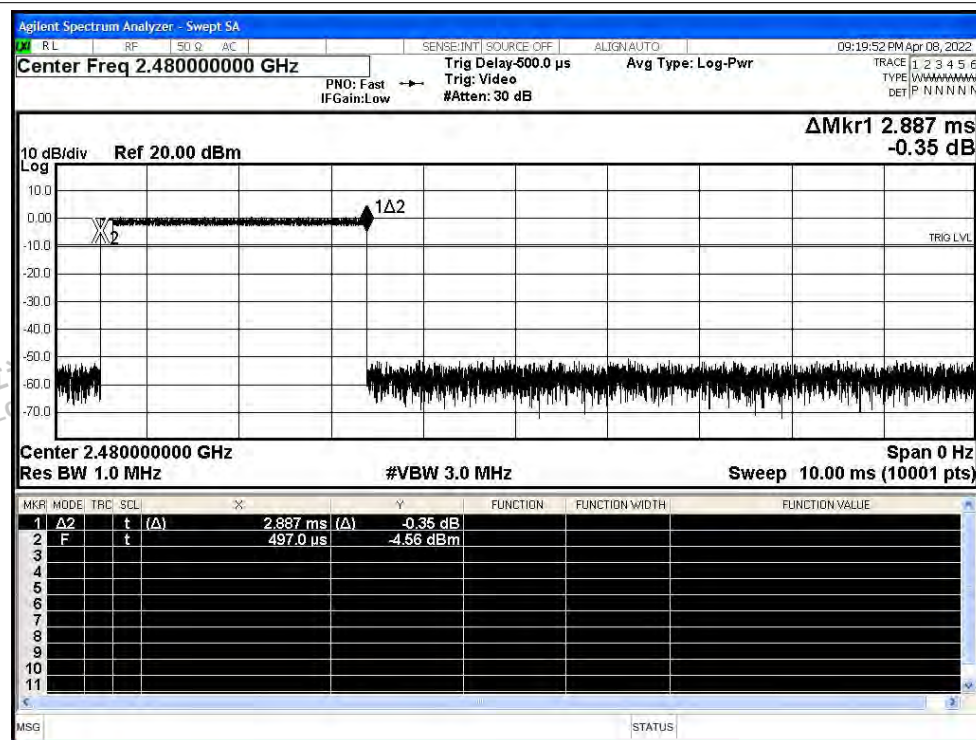
Shenzhen LCS Compliance Testing Laboratory Ltd.

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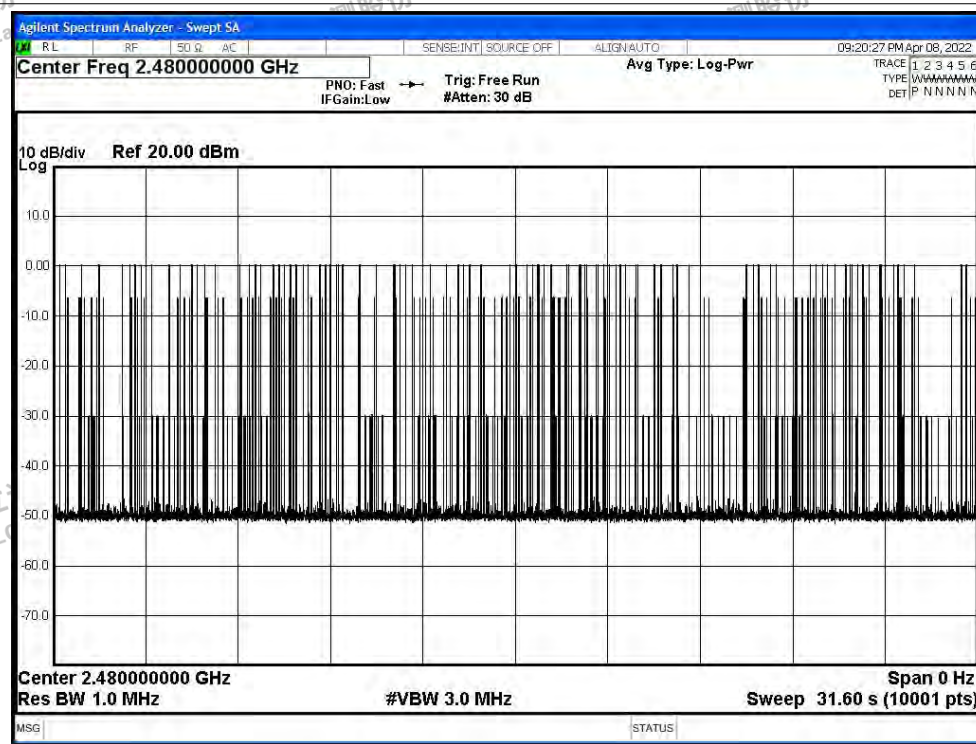
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated



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A.6 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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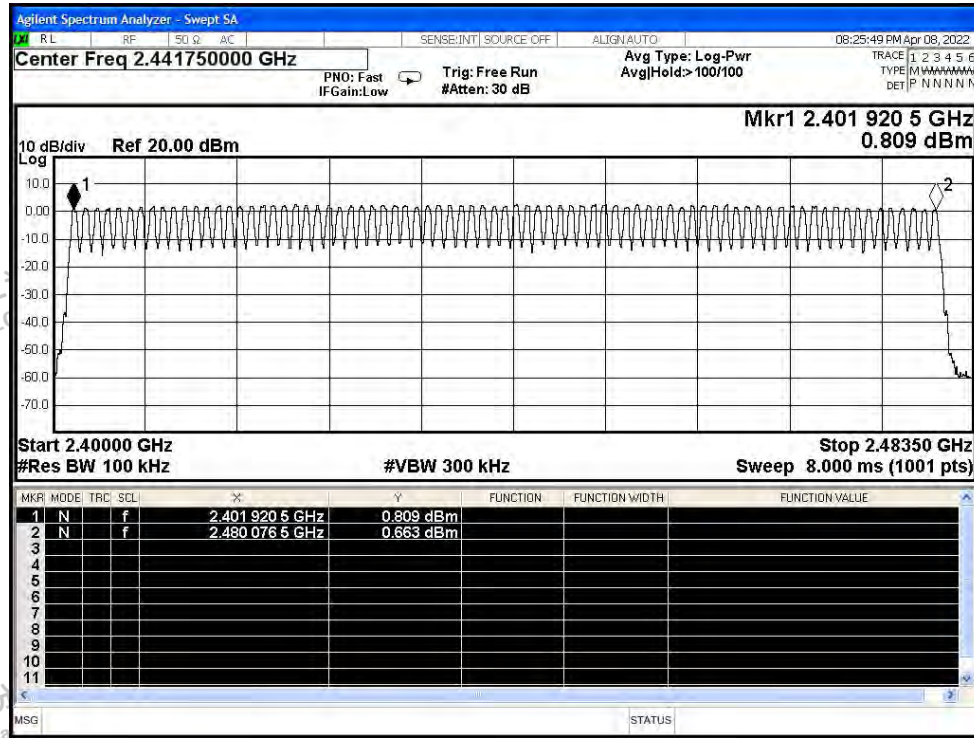
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

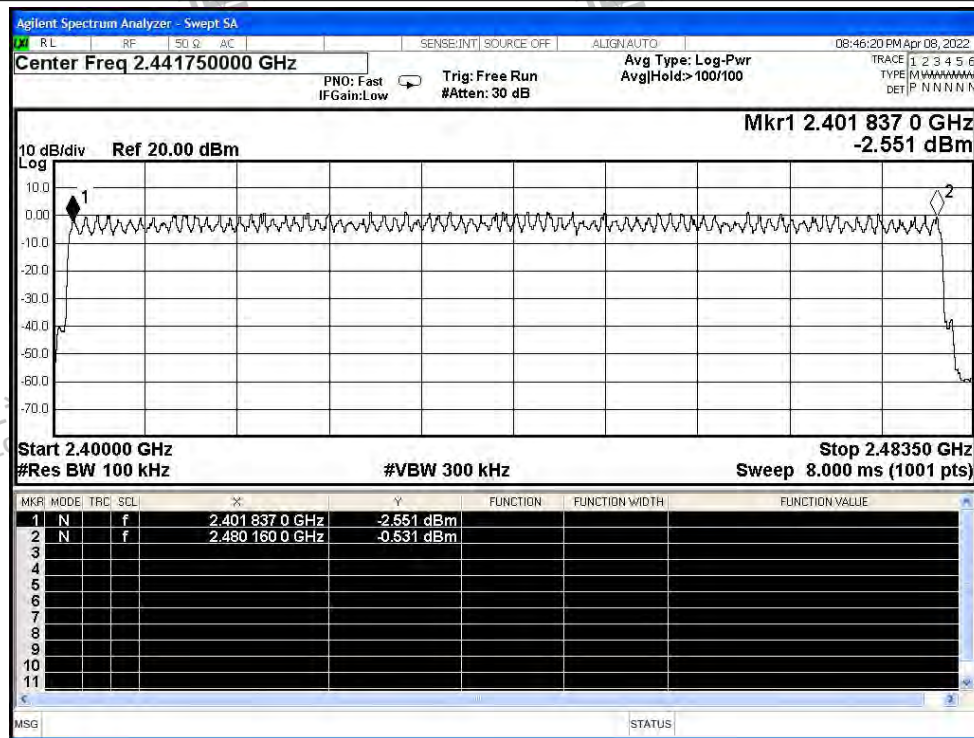
Scan code to check authenticity

Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



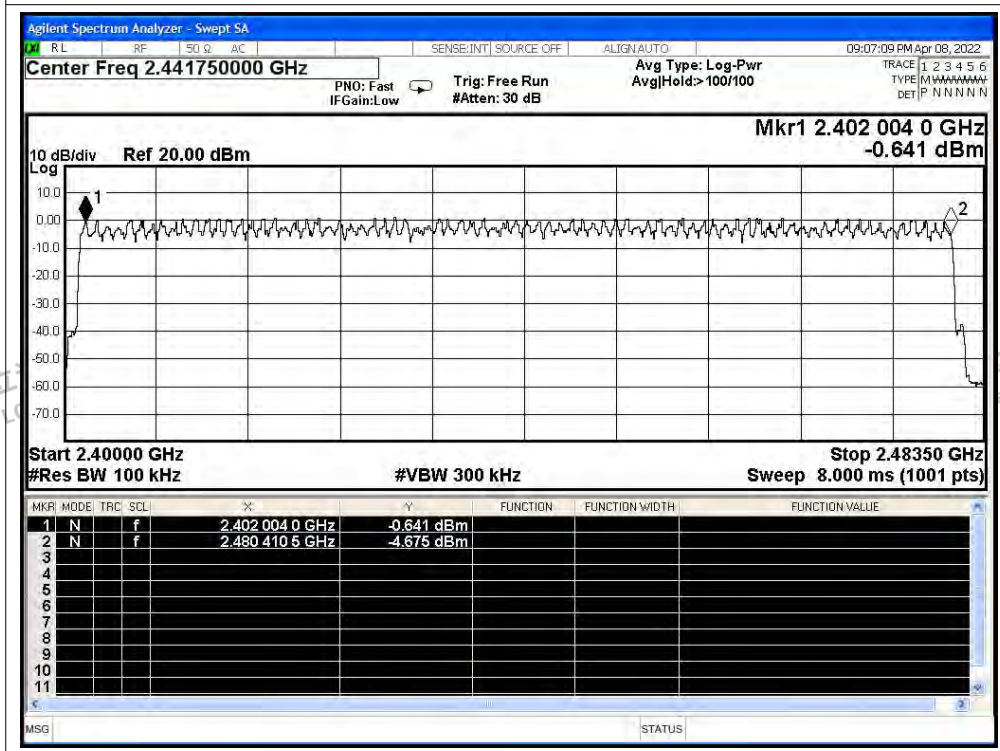
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Hopping No. NVNT 3-DH5 2402MHz Ant1



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A.7 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.25	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.59	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.86	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.2	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-56.66	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.39	-20	Pass



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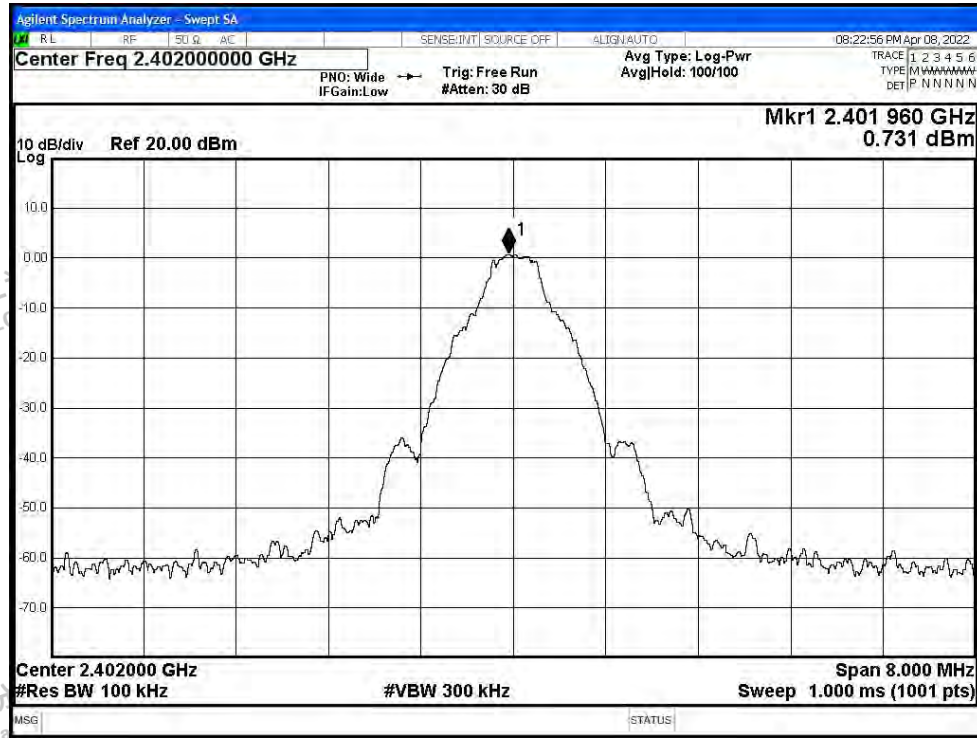
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

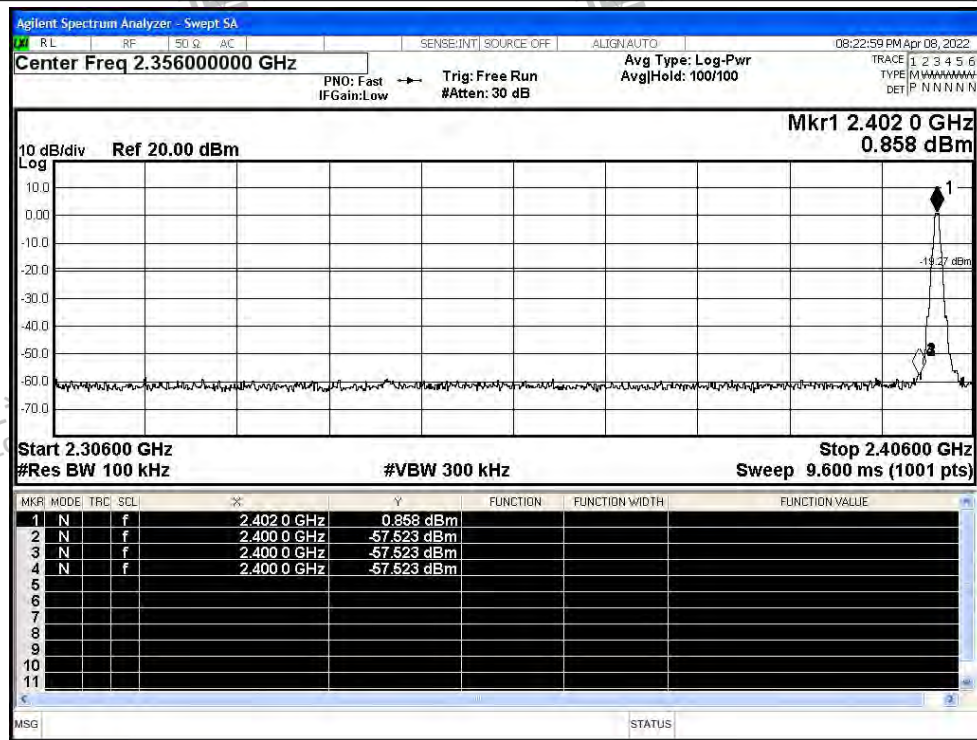
Scan code to check authenticity

Test Graphs

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



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



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

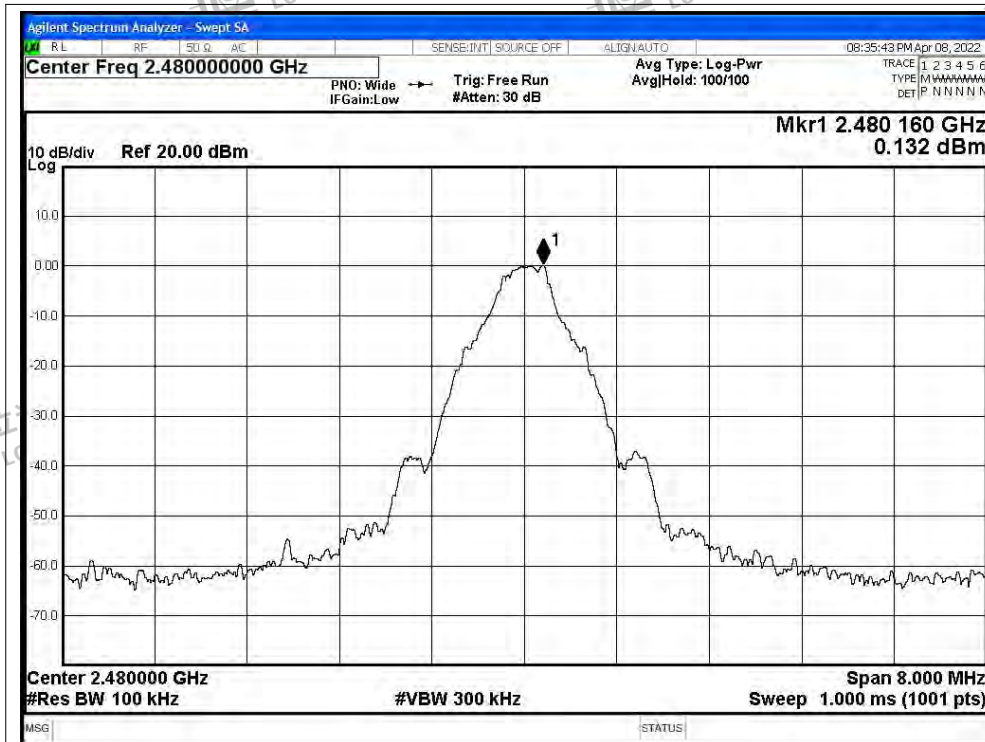


Shenzhen LCS Compliance Testing Laboratory Ltd.

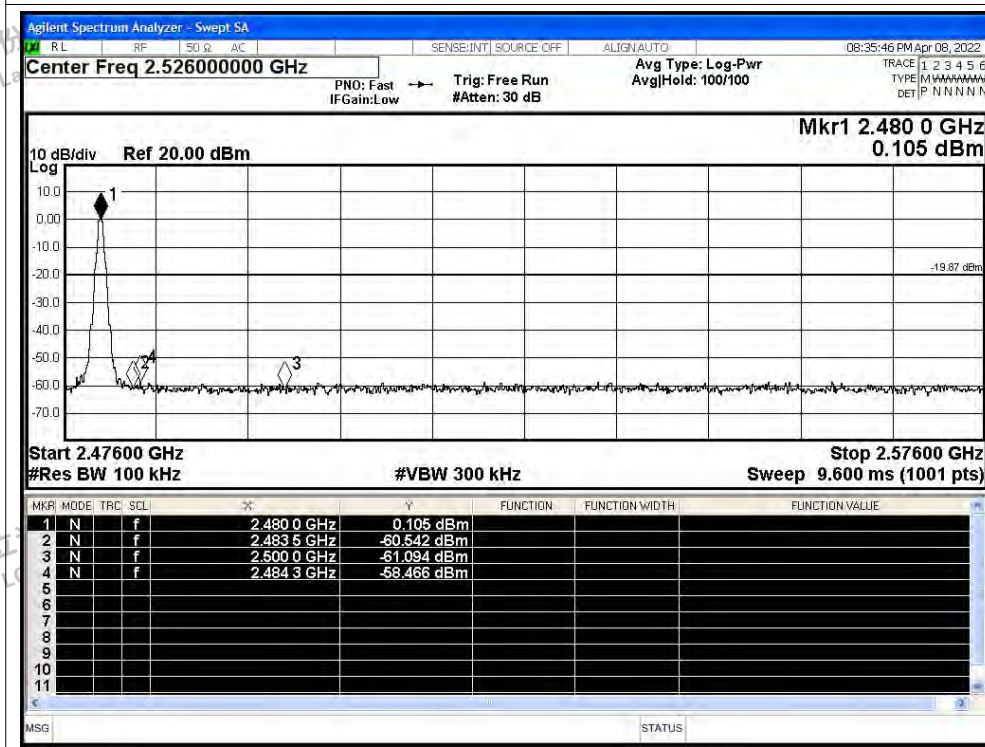
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



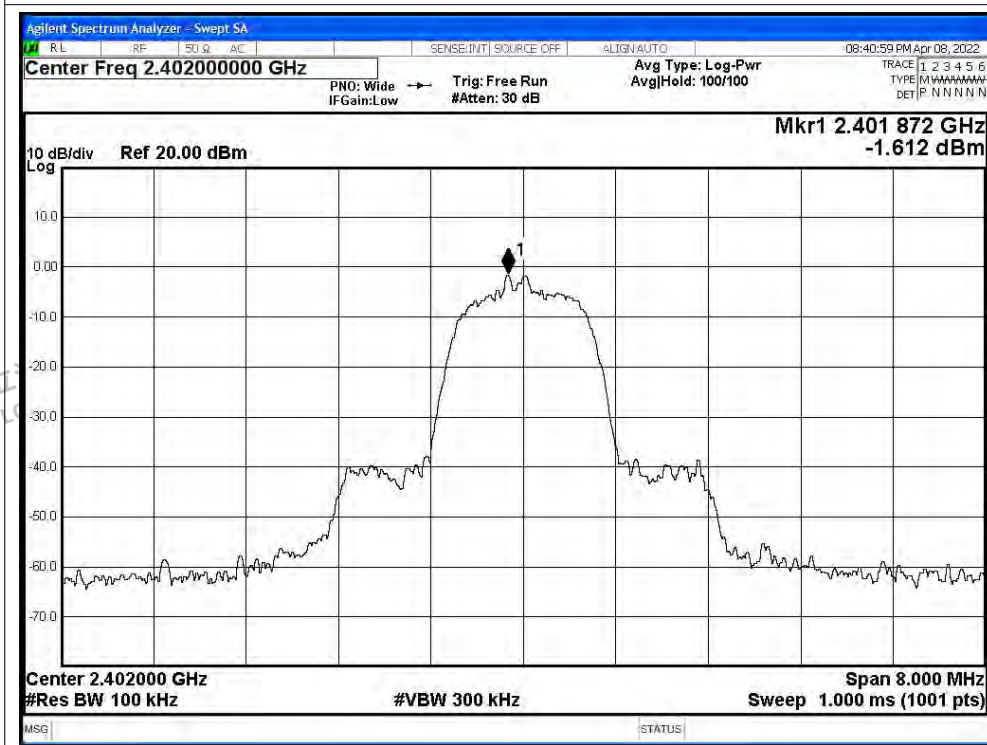
Shenzhen LCS Compliance Testing Laboratory Ltd.

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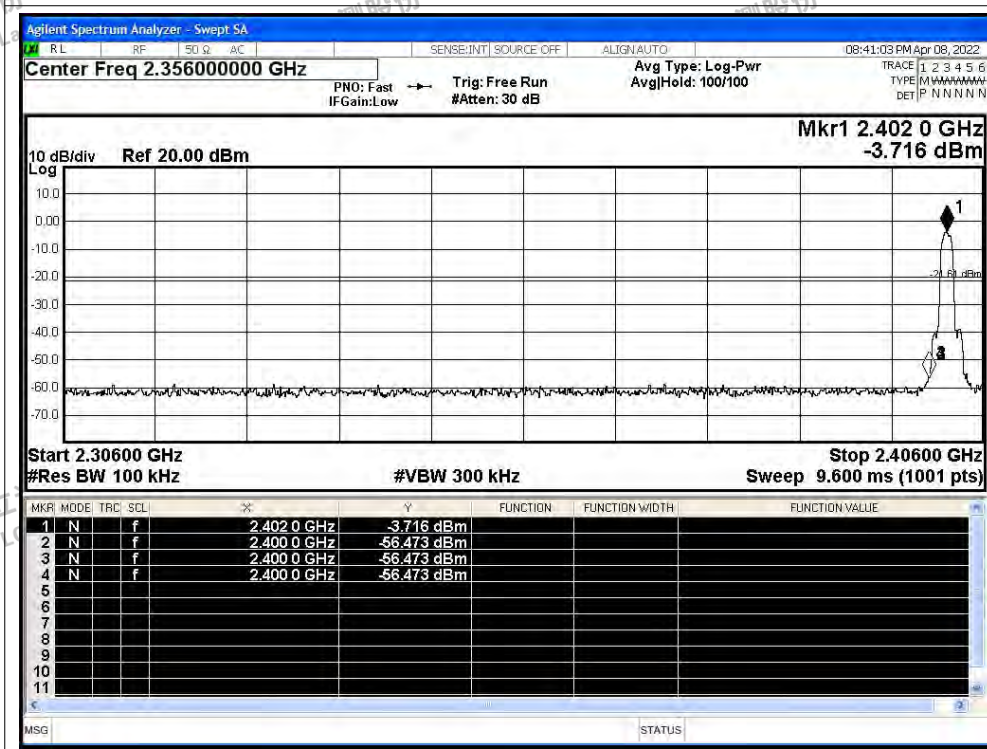
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



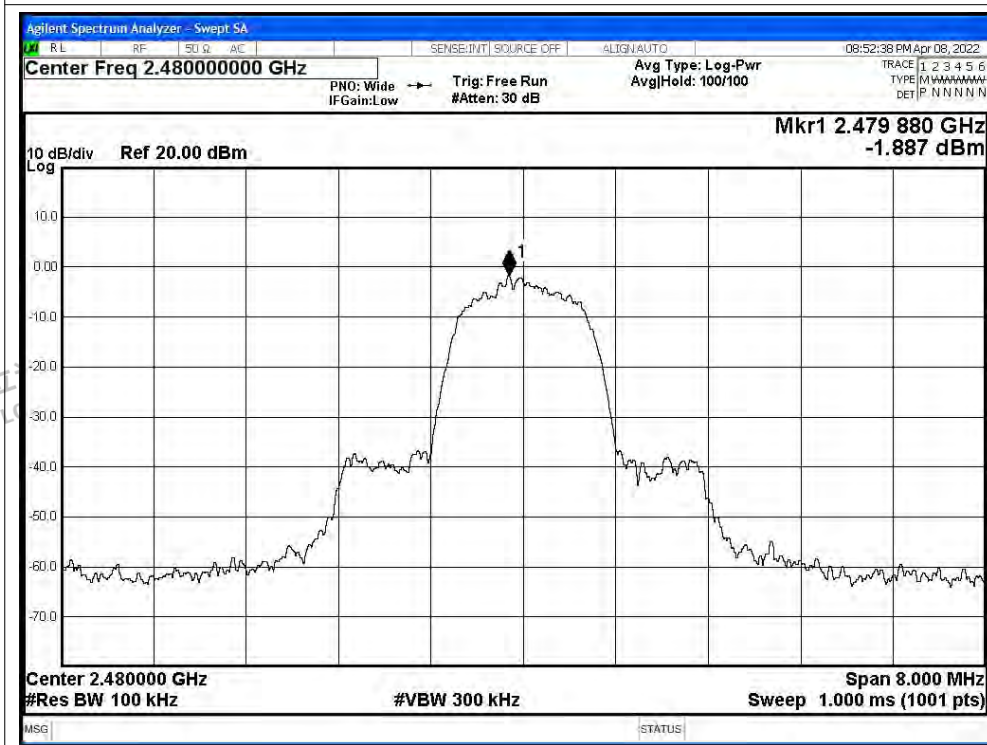
Shenzhen LCS Compliance Testing Laboratory Ltd.

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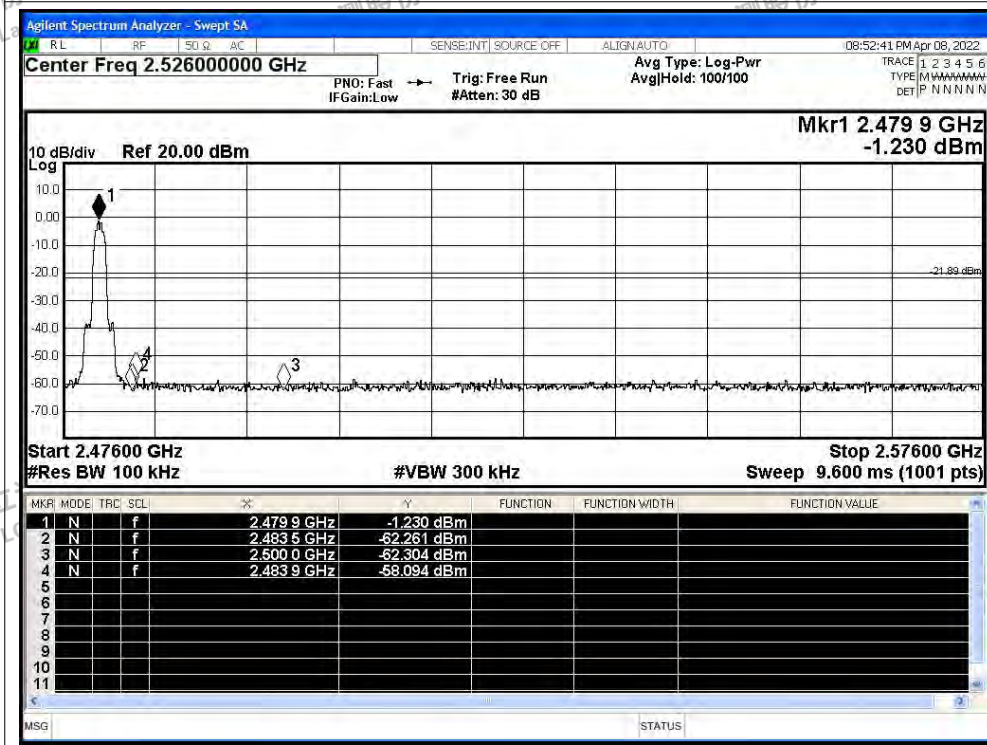
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



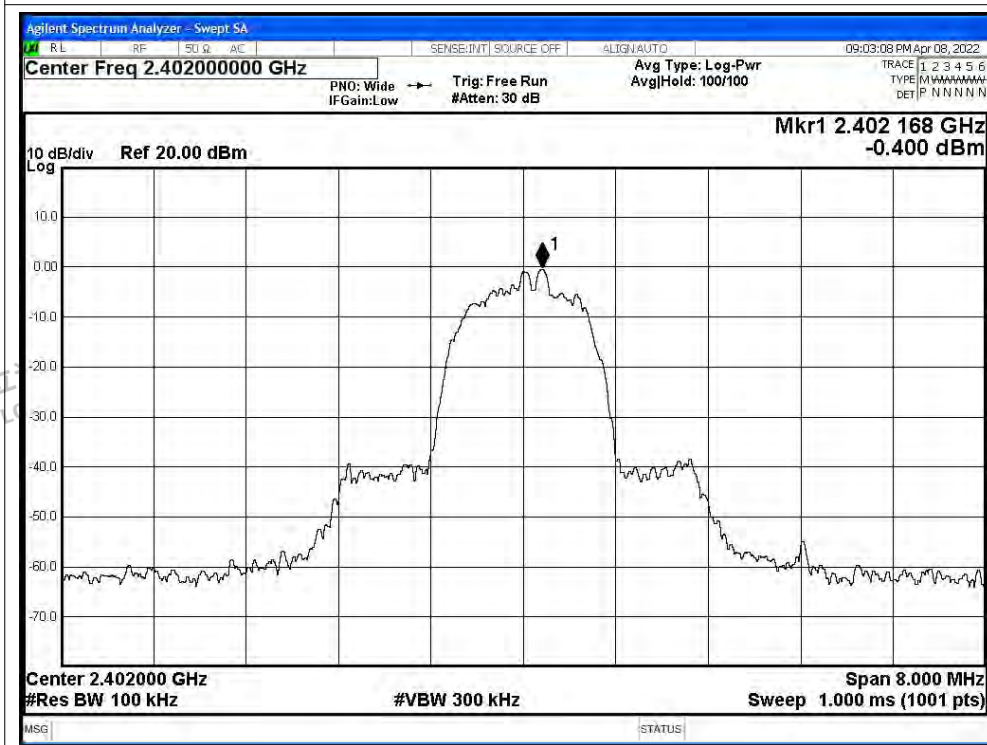
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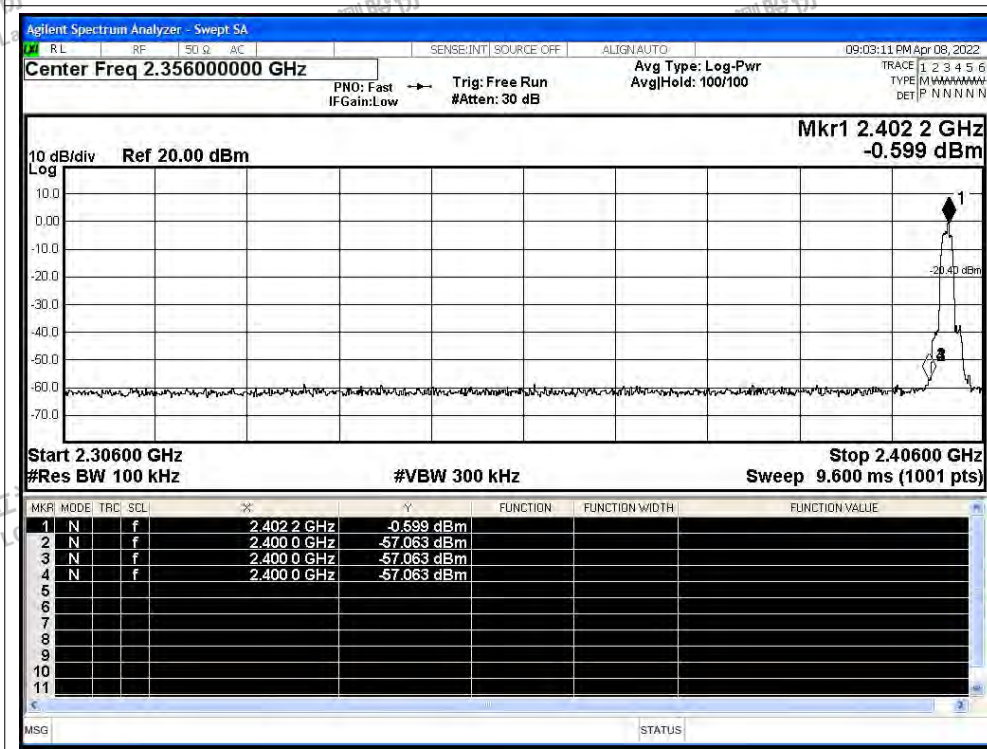
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



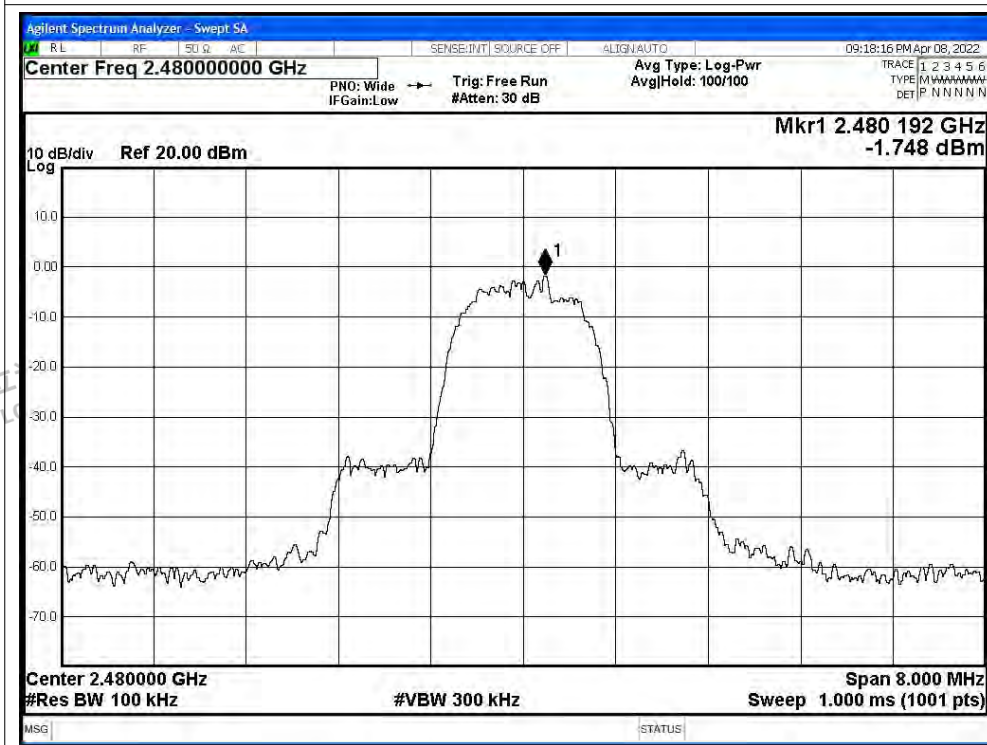
Shenzhen LCS Compliance Testing Laboratory Ltd.

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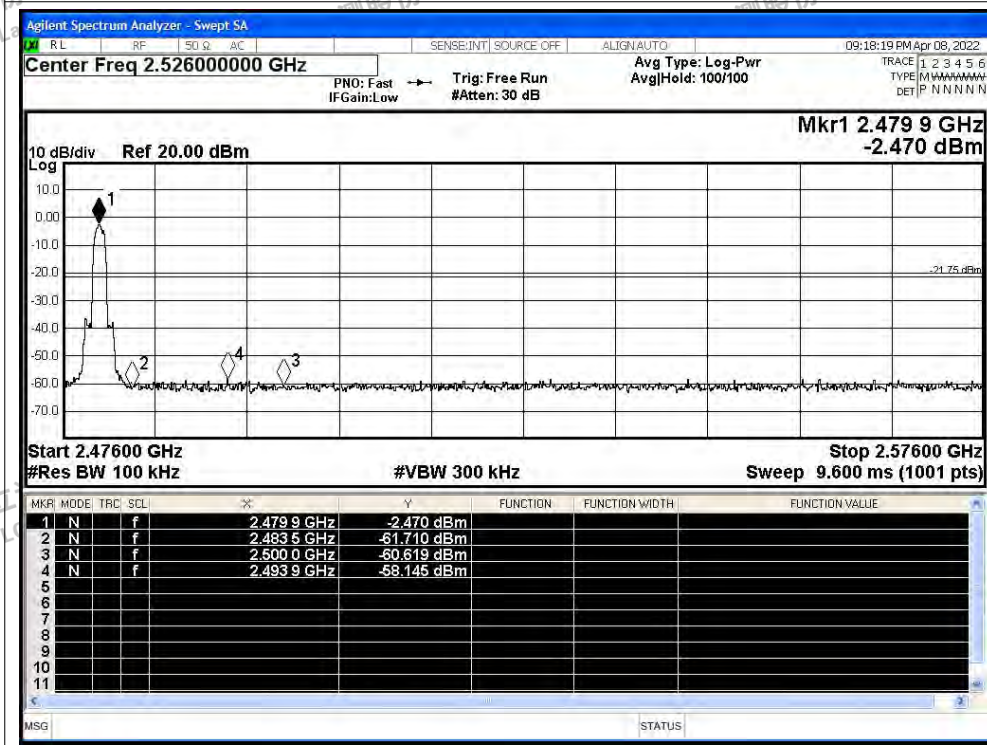
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



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Scan code to check authenticity

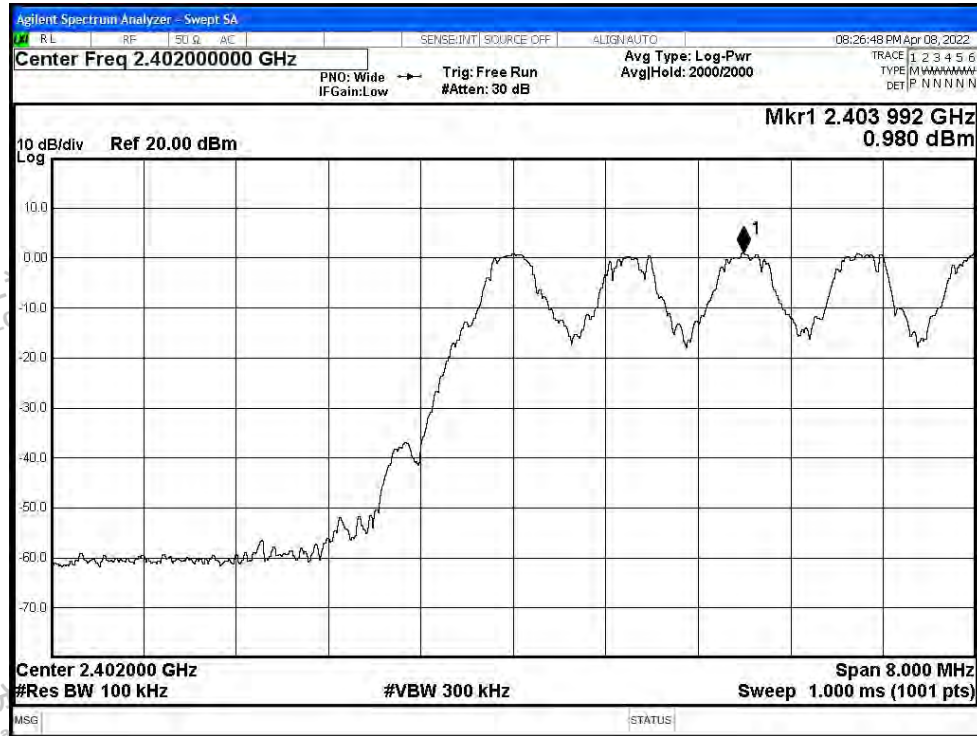
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-59	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.8	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-57.94	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.62	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-55.84	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.23	-20	Pass

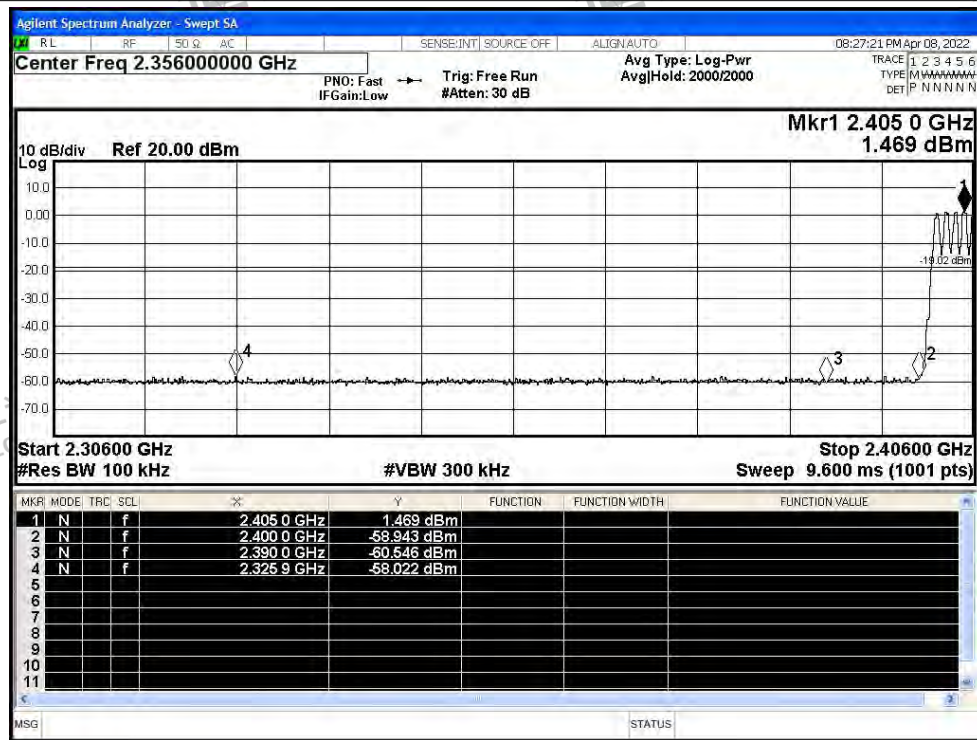


Test Graphs

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



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



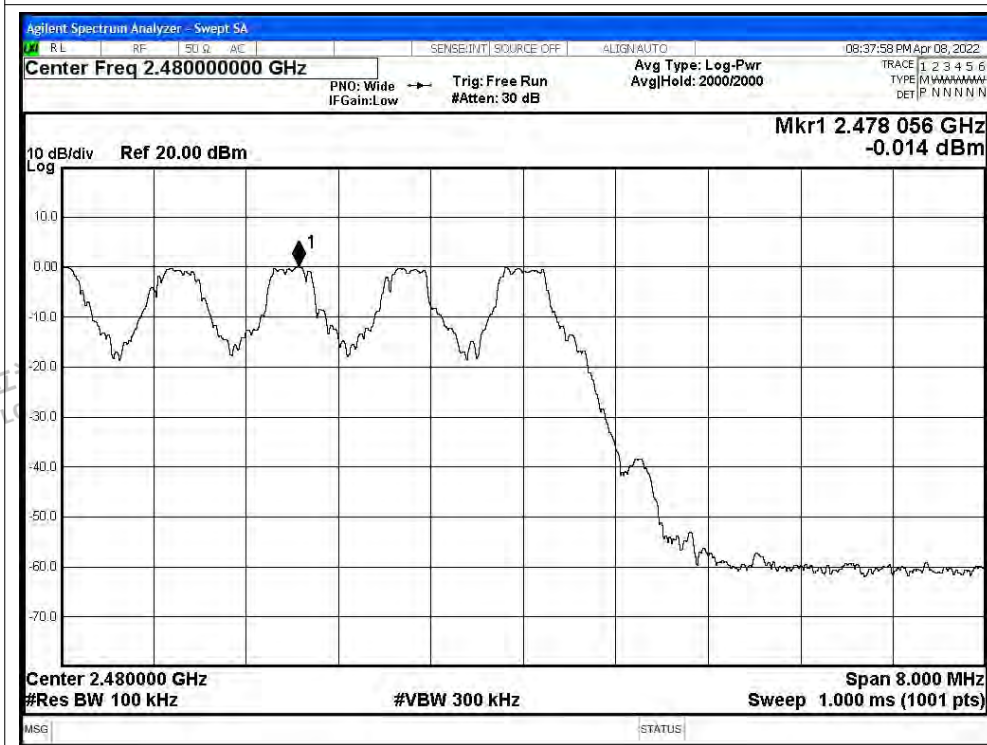
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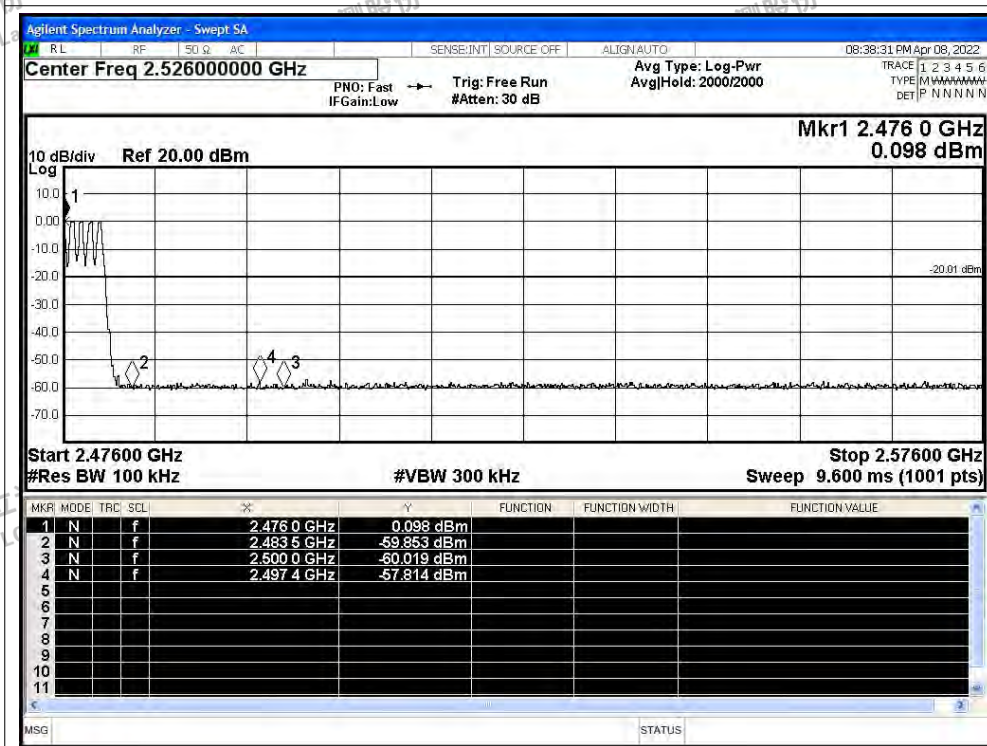
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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



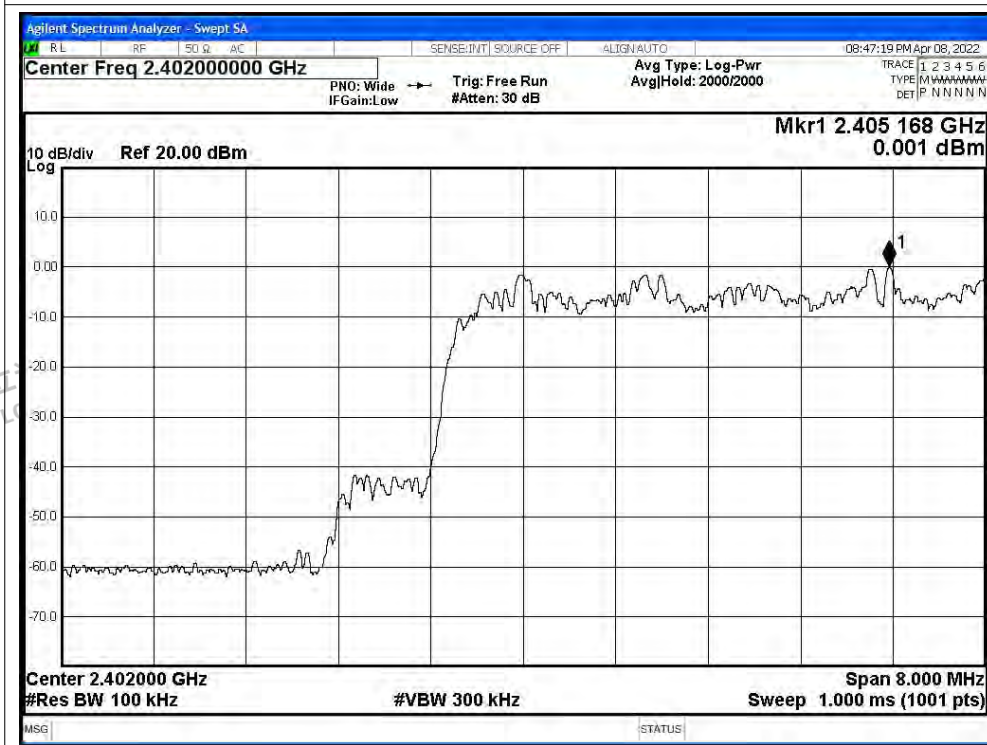
Shenzhen LCS Compliance Testing Laboratory Ltd.

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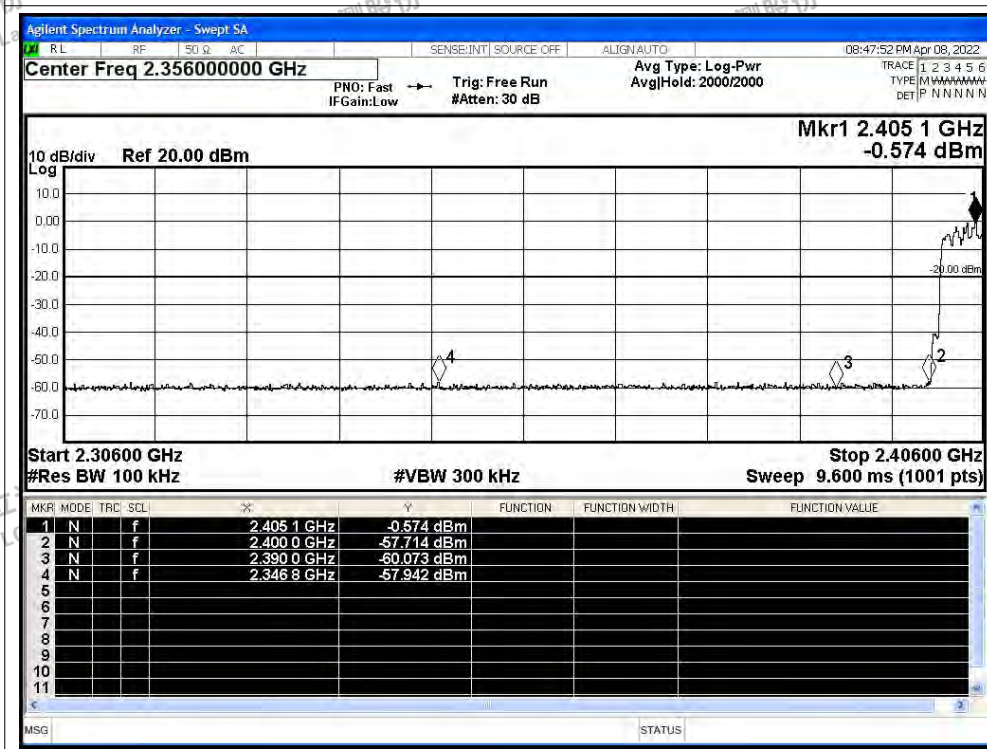
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



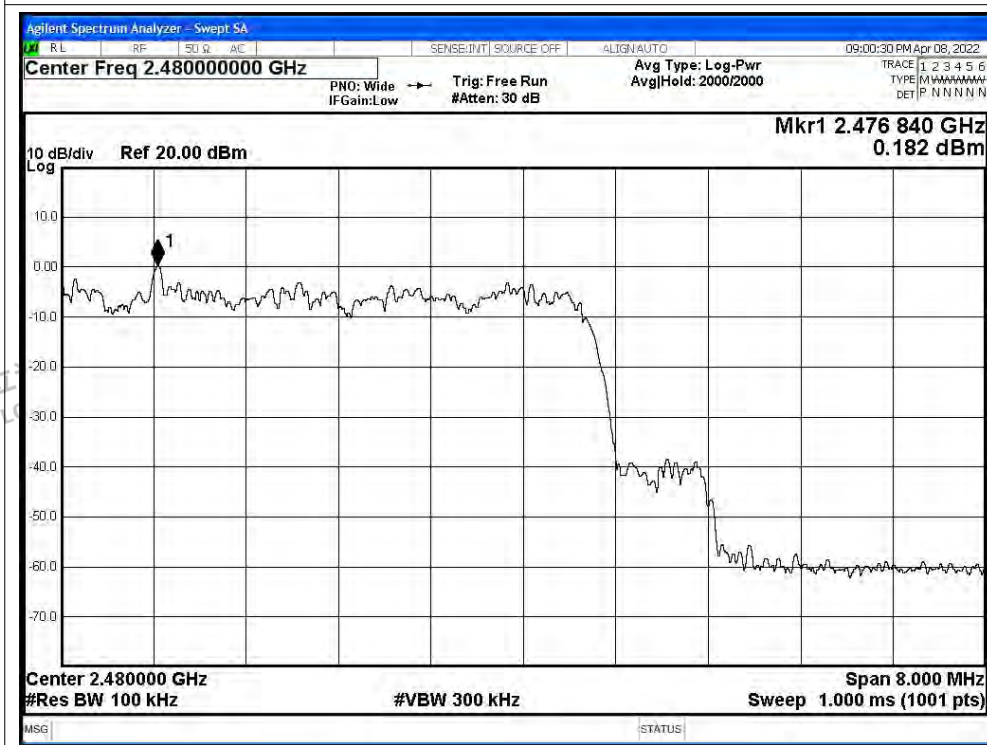
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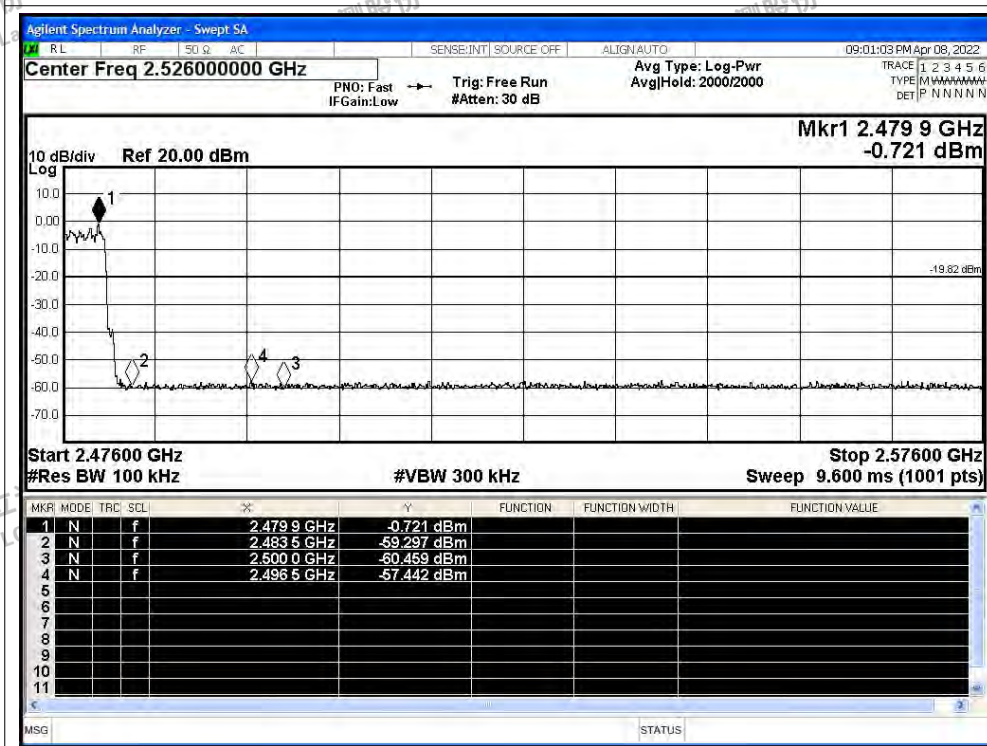
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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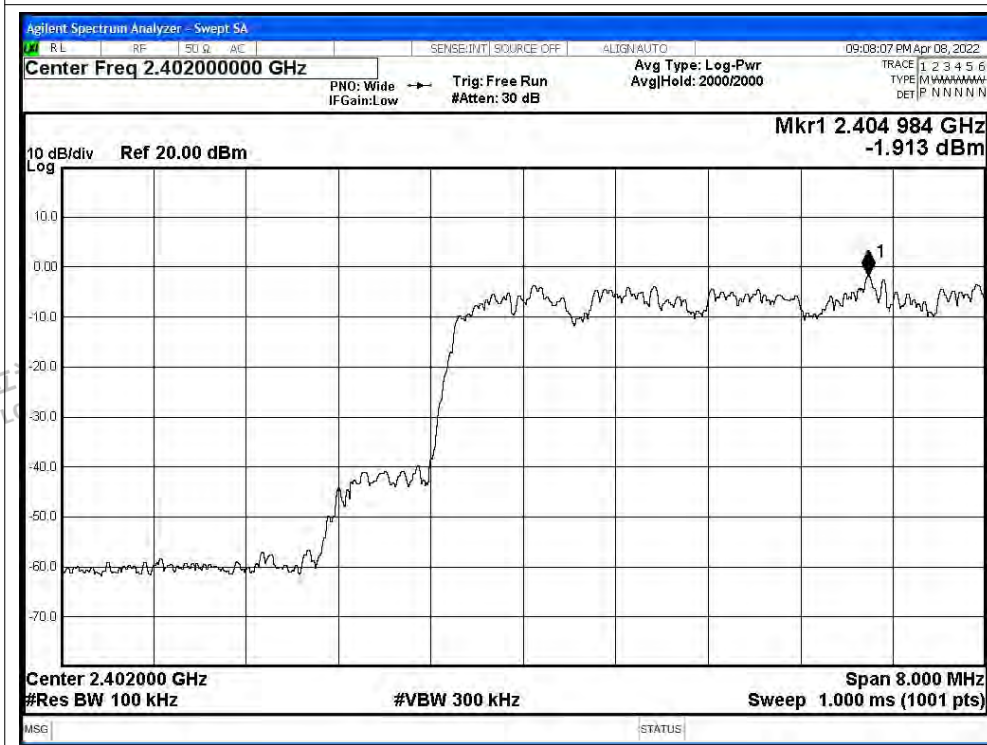
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



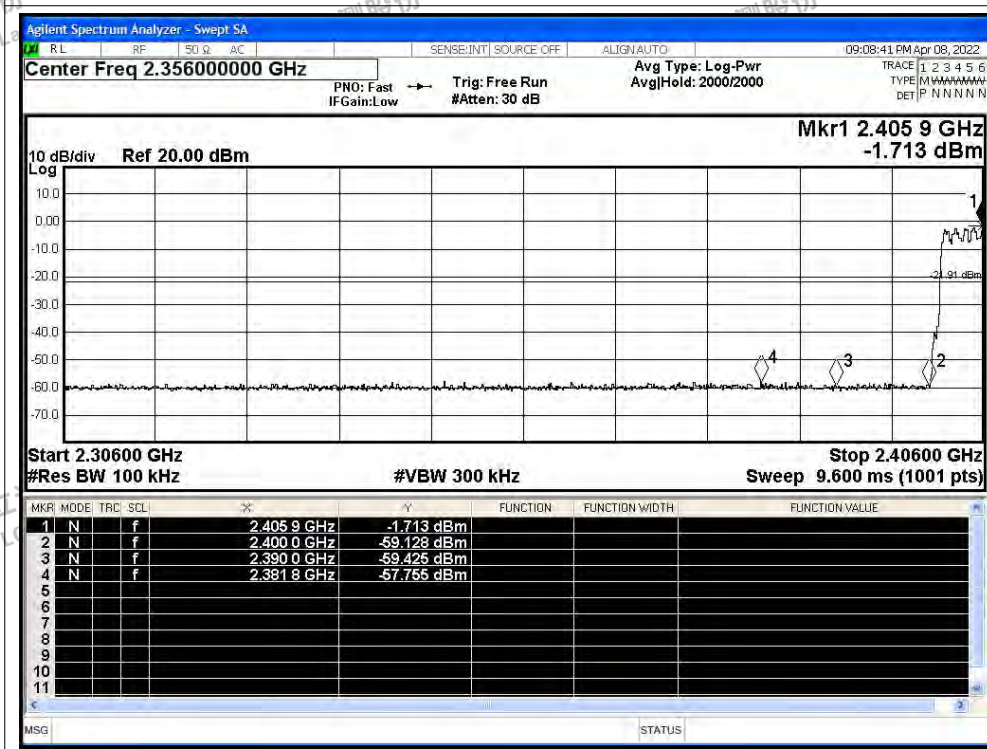
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



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



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



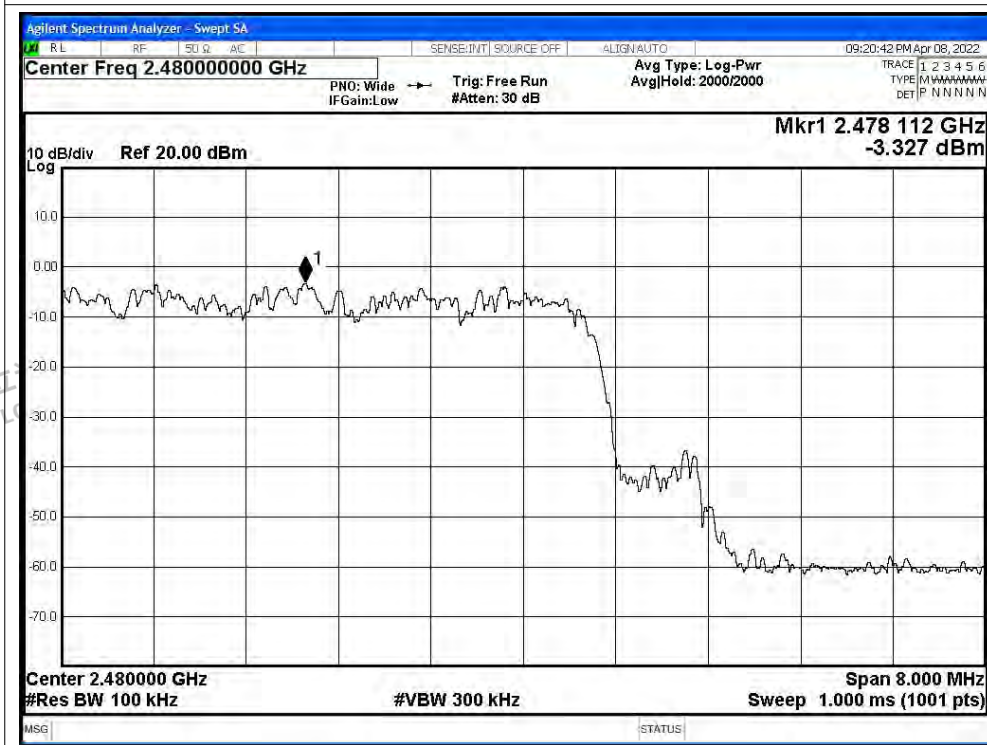
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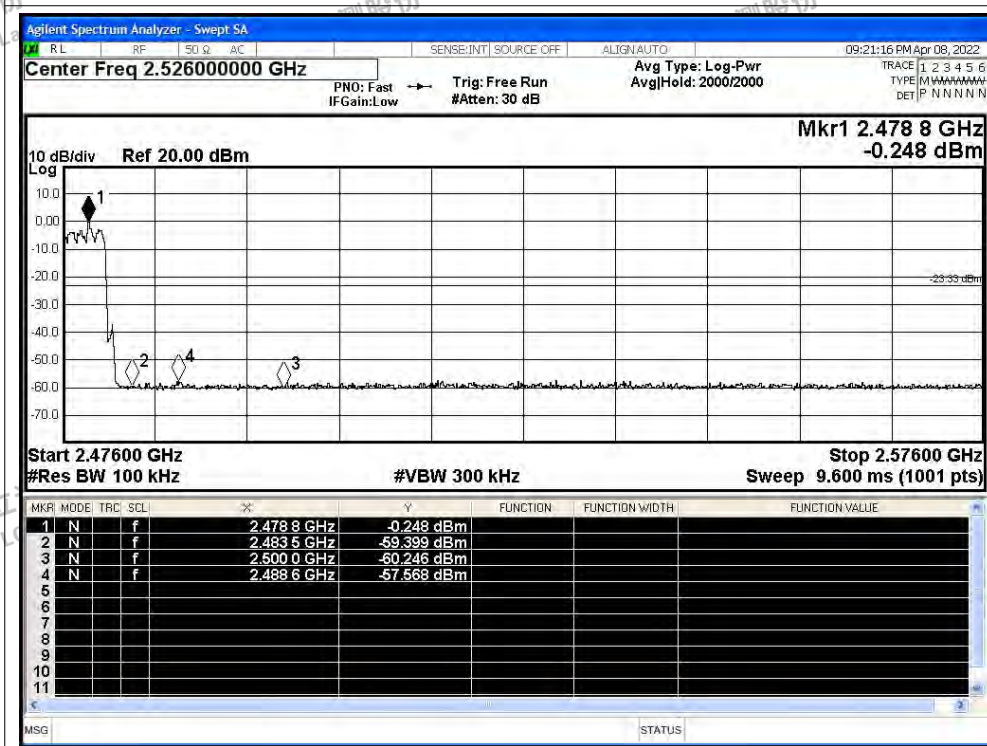
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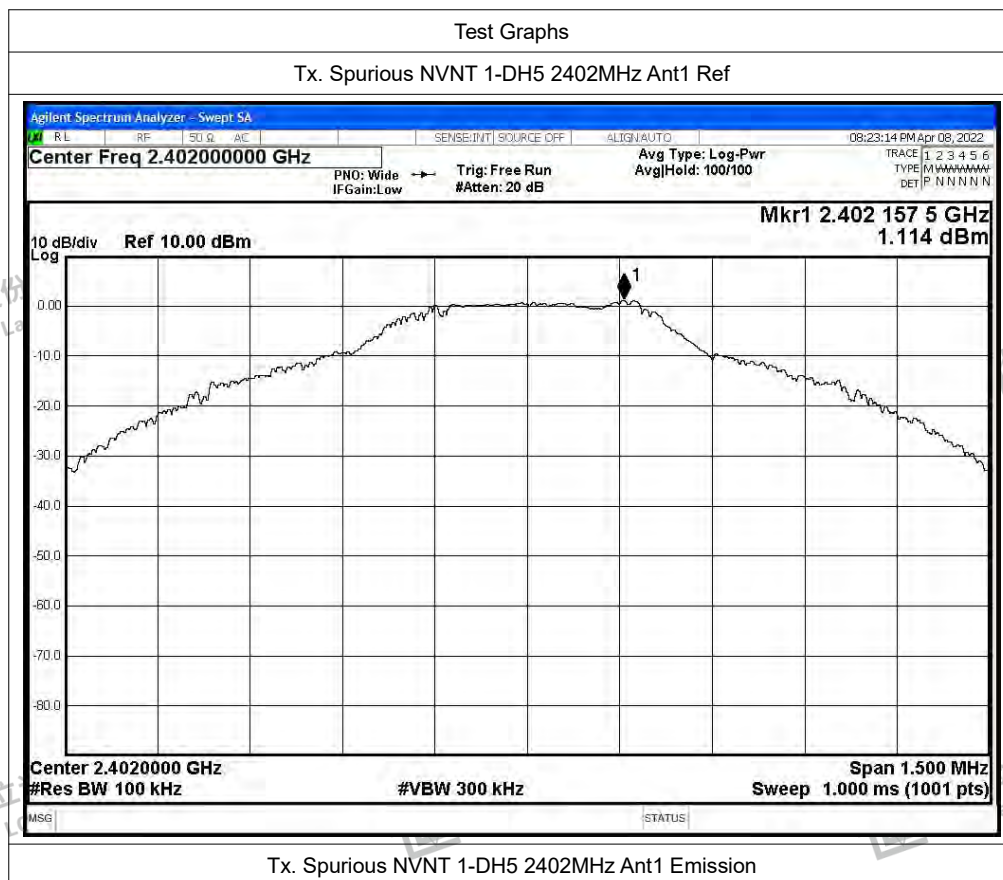
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A.8 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-59.01	-20	Pass
NVNT	1-DH5	2441	Ant1	-58.16	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.66	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.78	-20	Pass
NVNT	2-DH5	2441	Ant1	-46.08	-20	Pass
NVNT	2-DH5	2480	Ant1	-57.06	-20	Pass
NVNT	3-DH5	2402	Ant1	-56.46	-20	Pass
NVNT	3-DH5	2441	Ant1	-57.06	-20	Pass
NVNT	3-DH5	2480	Ant1	-57.56	-20	Pass

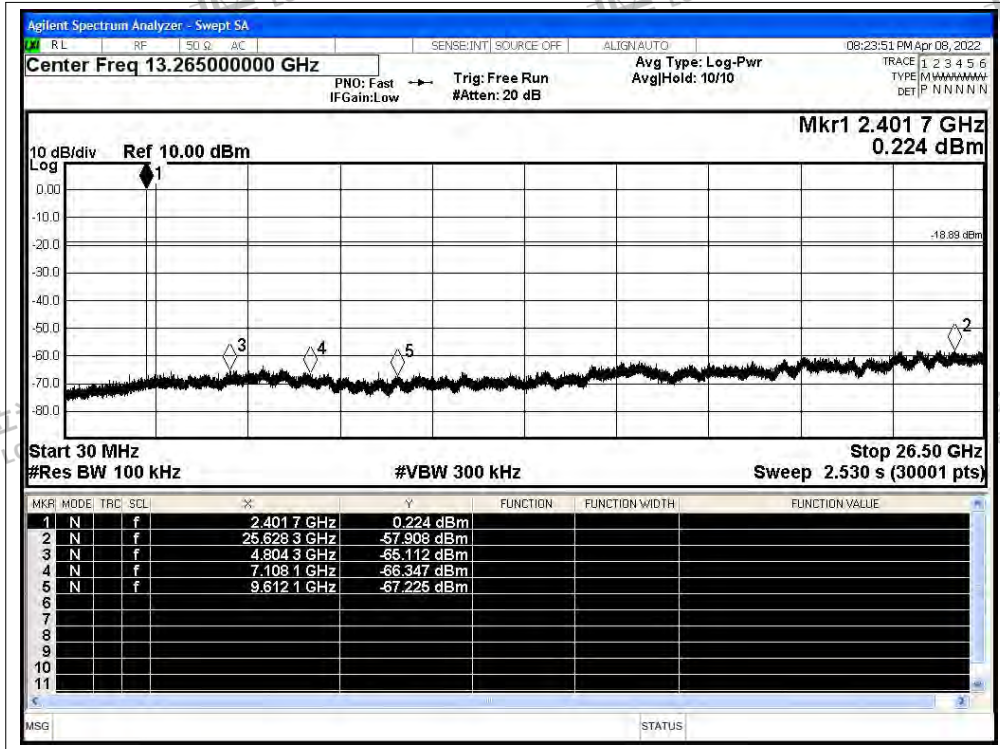


Shenzhen LCS Compliance Testing Laboratory Ltd.

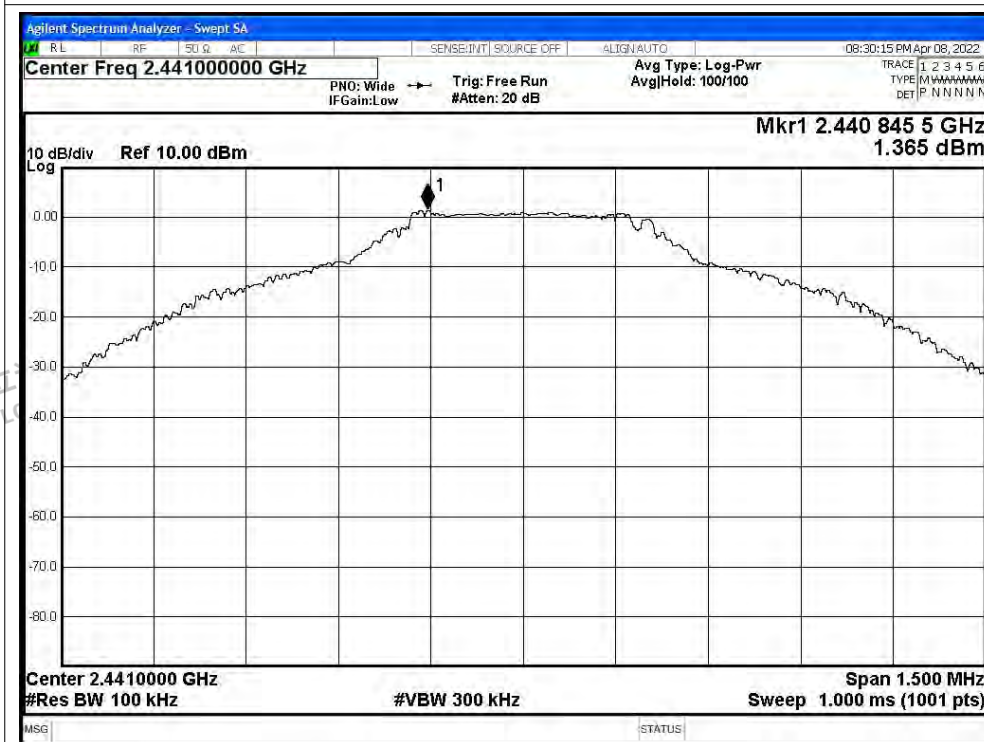
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

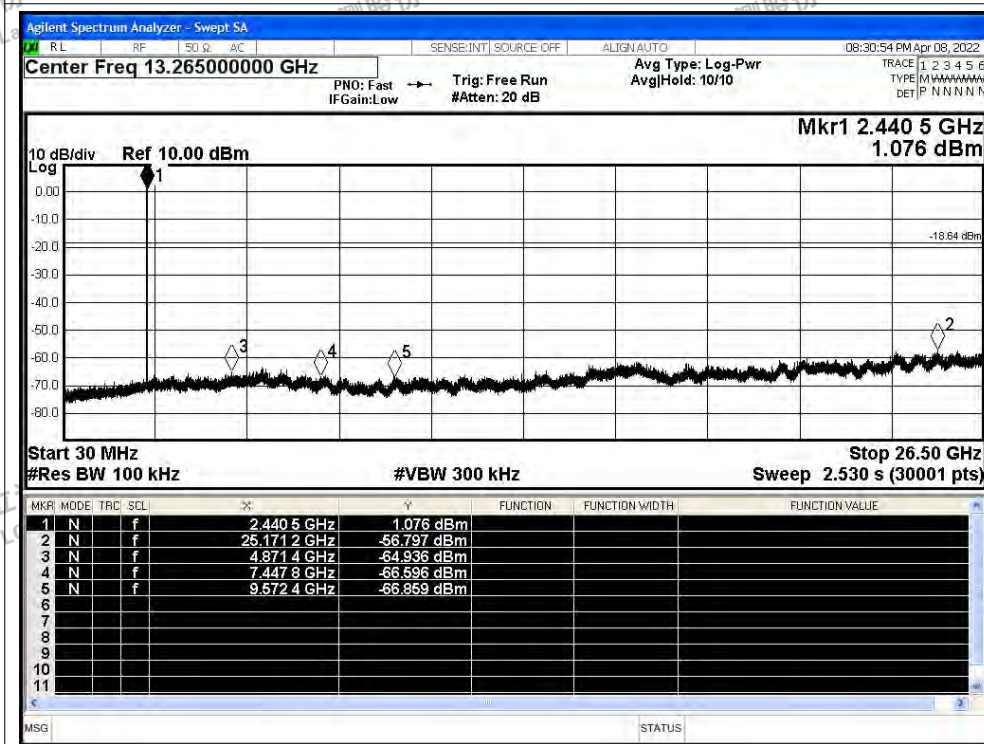
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



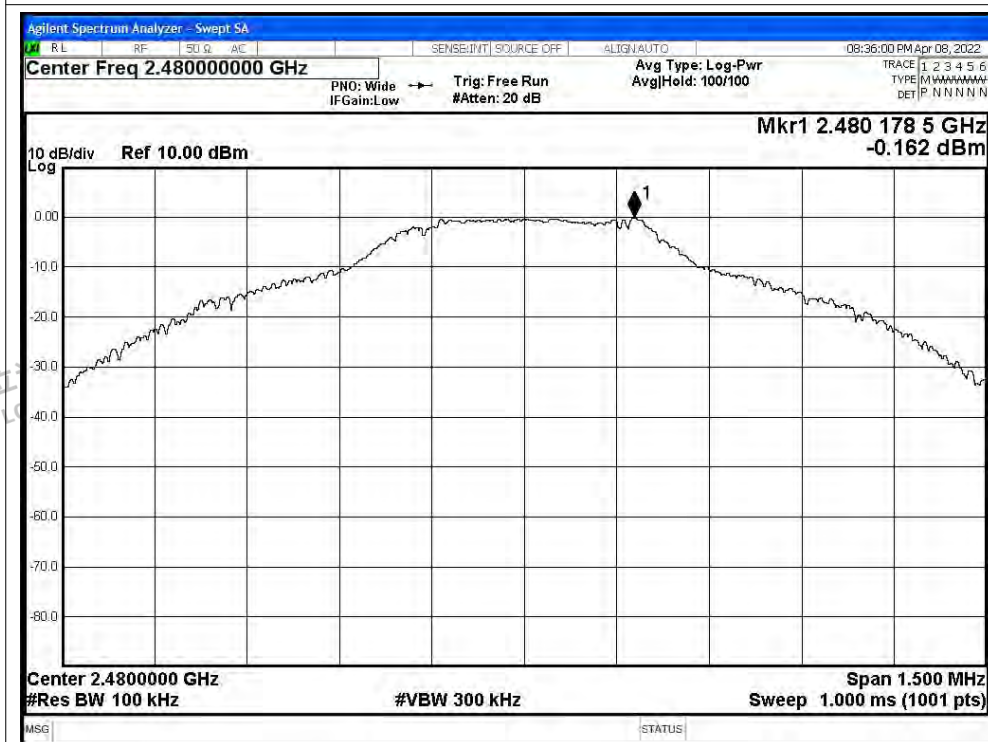
Shenzhen LCS Compliance Testing Laboratory Ltd.

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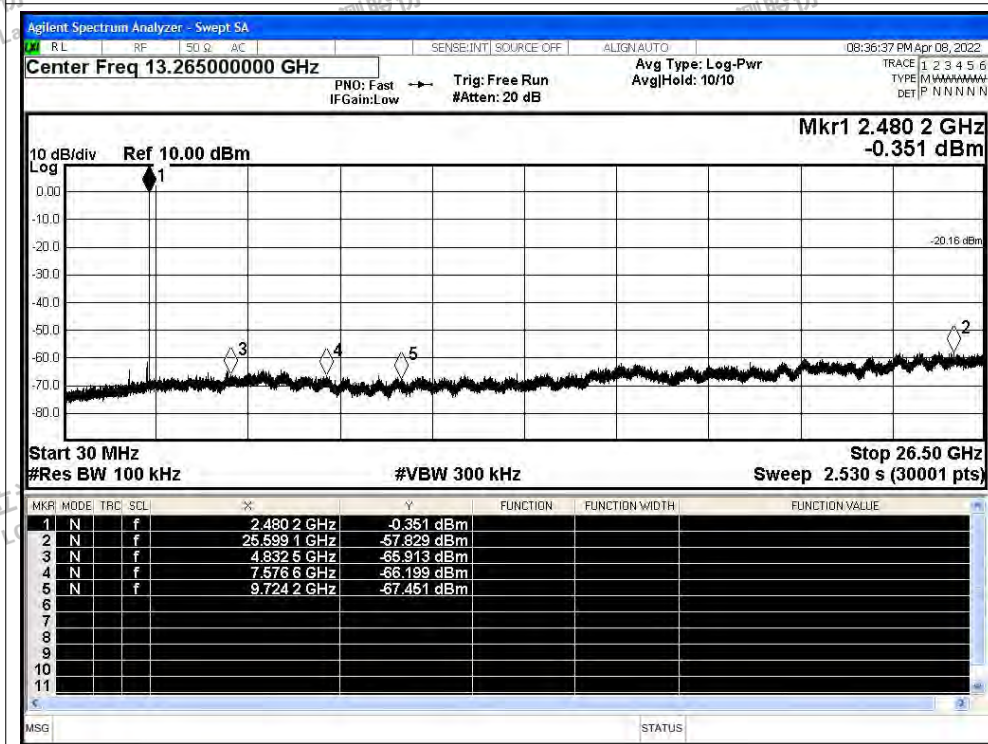
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



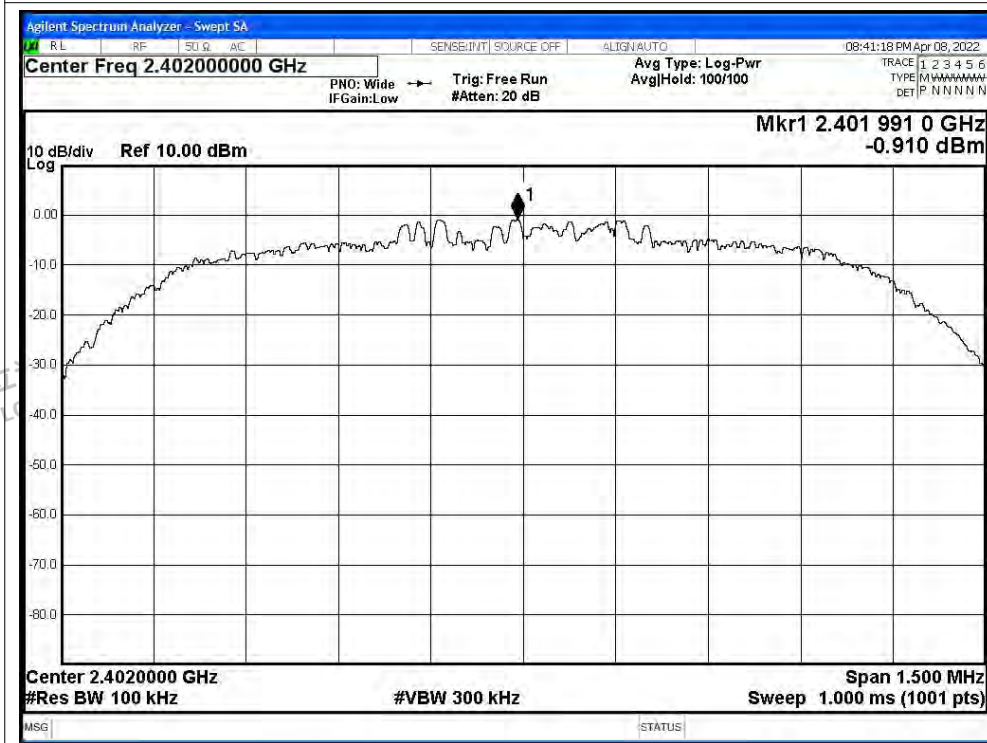
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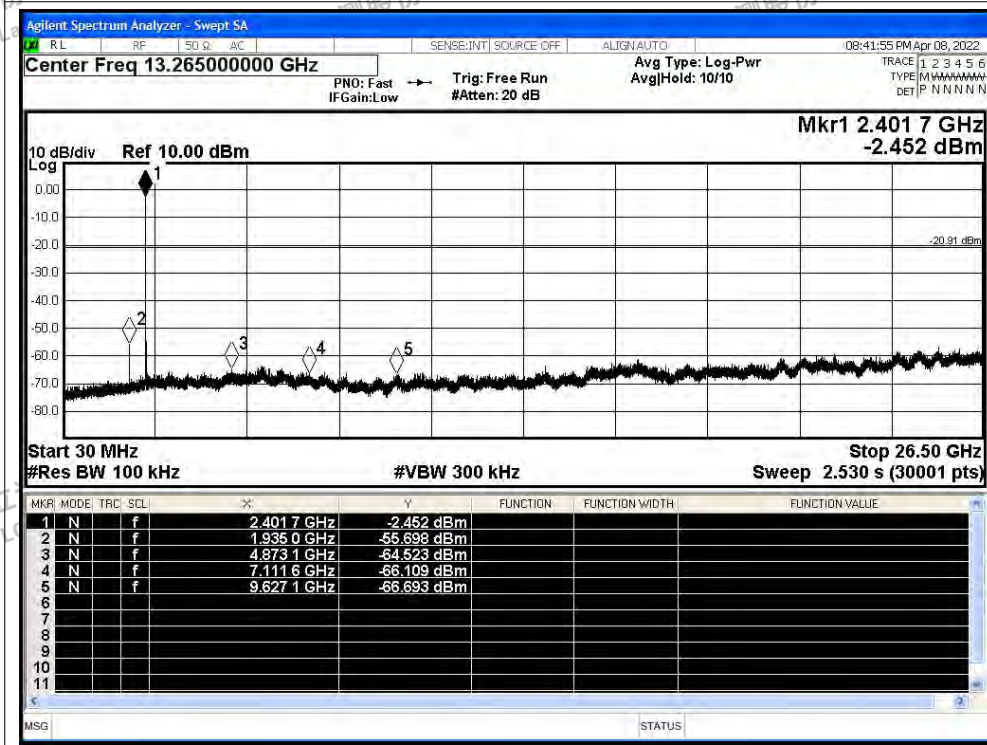
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



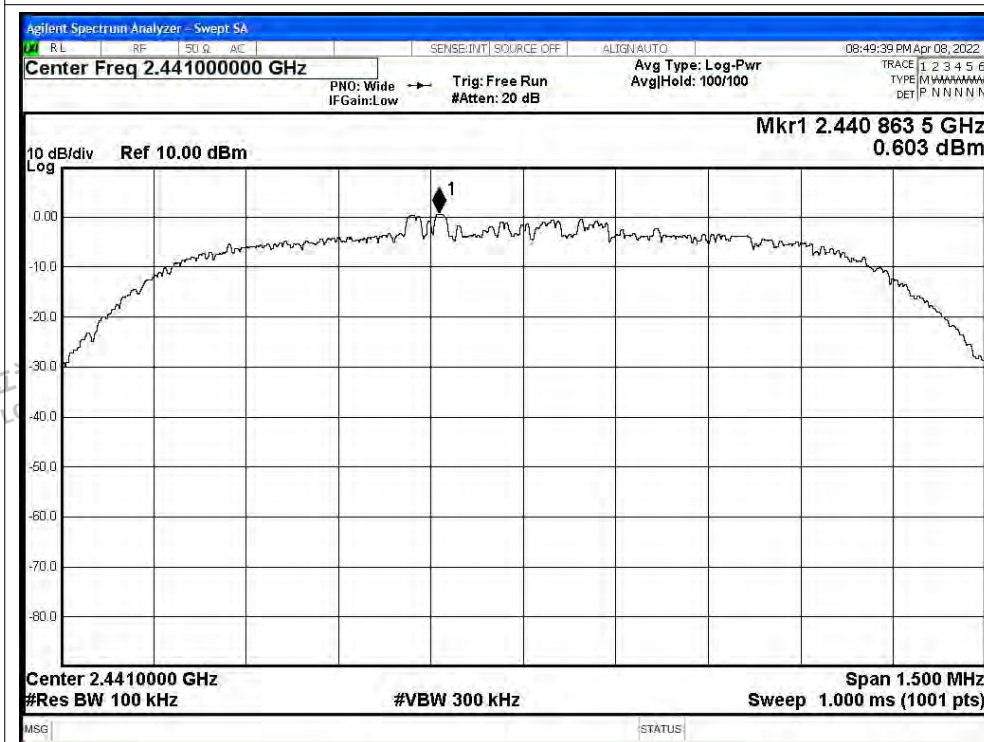
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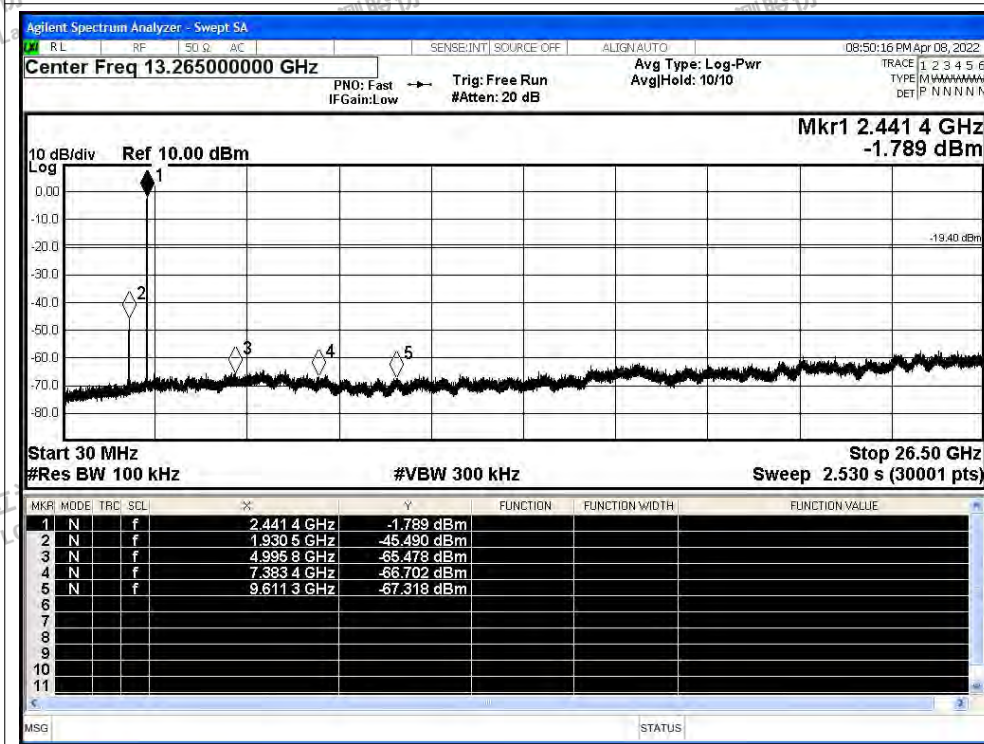
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Scan code to check authenticity

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



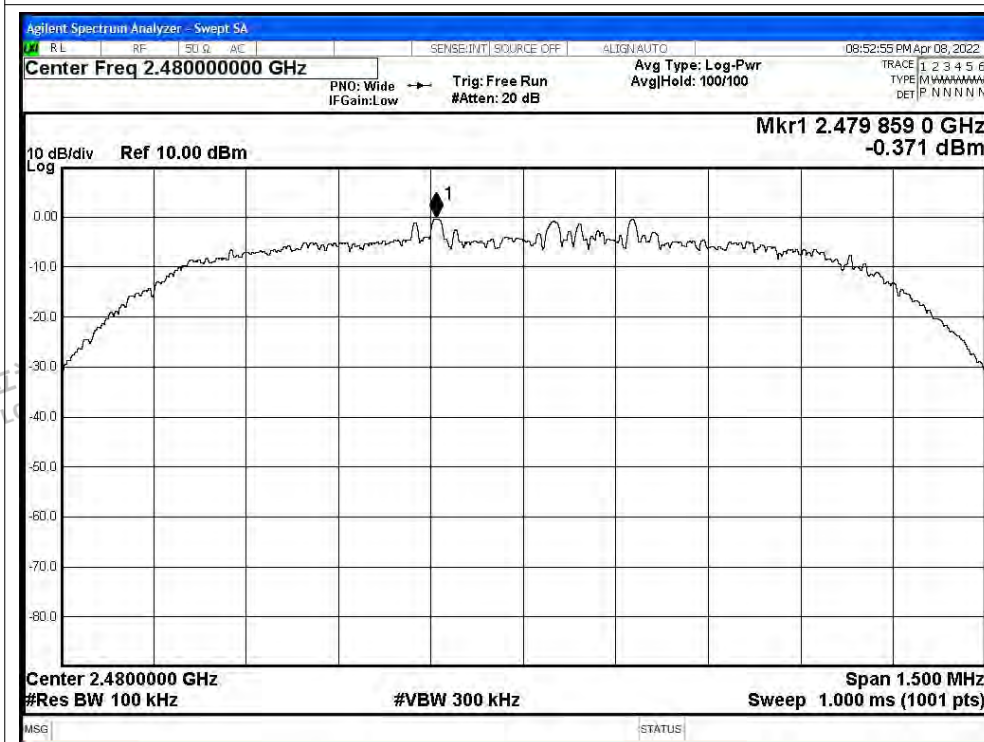
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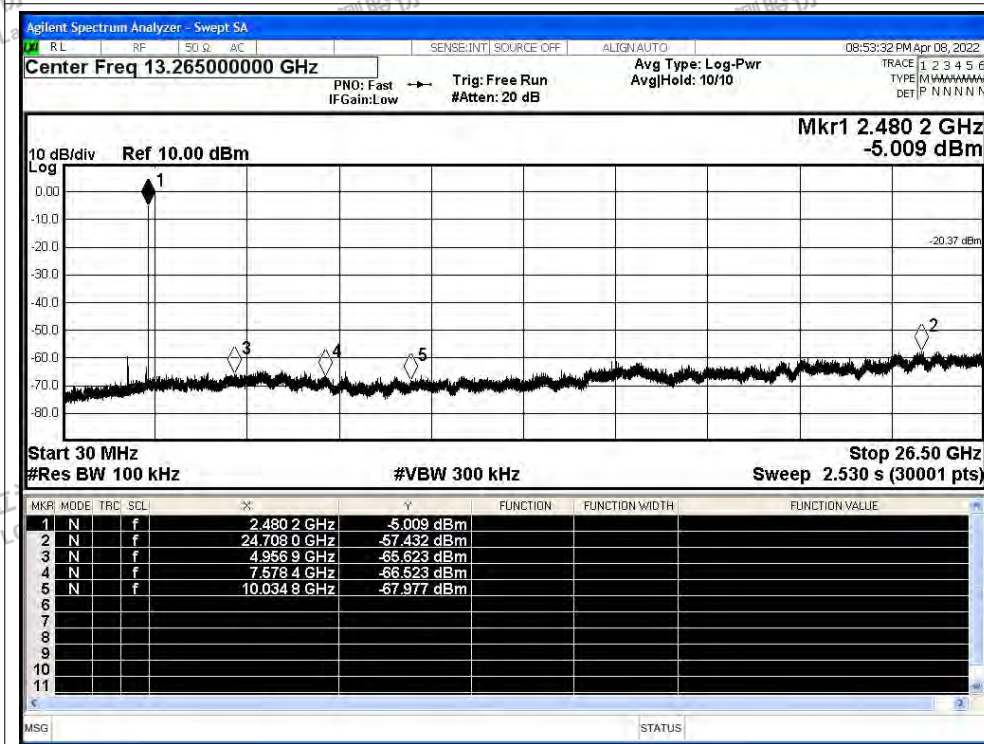
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



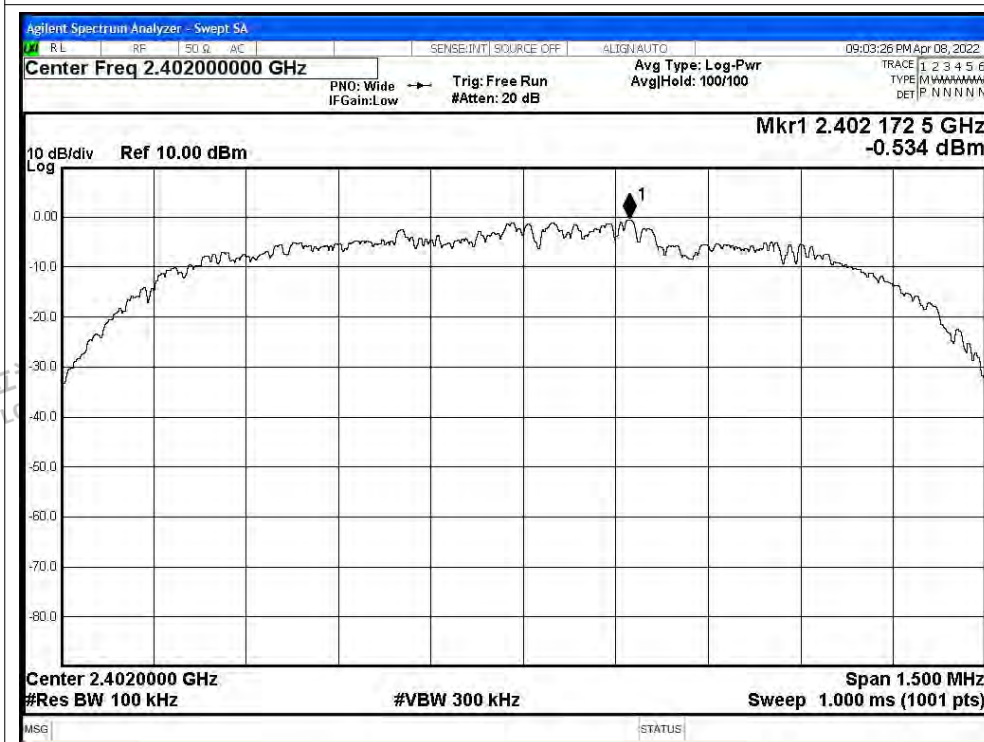
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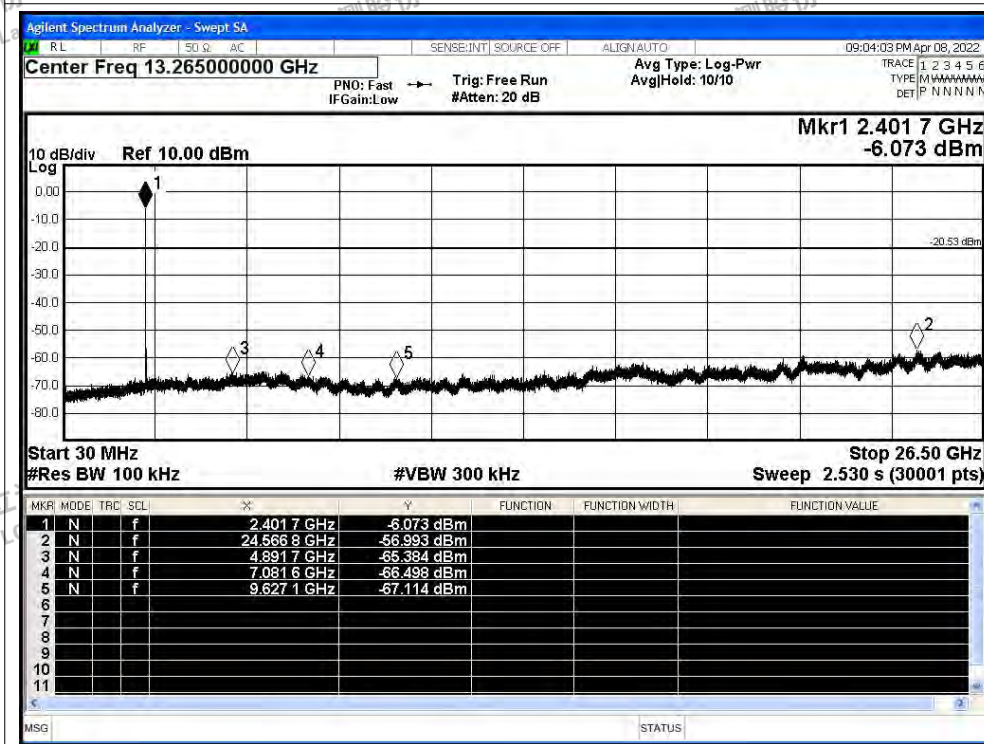
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Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



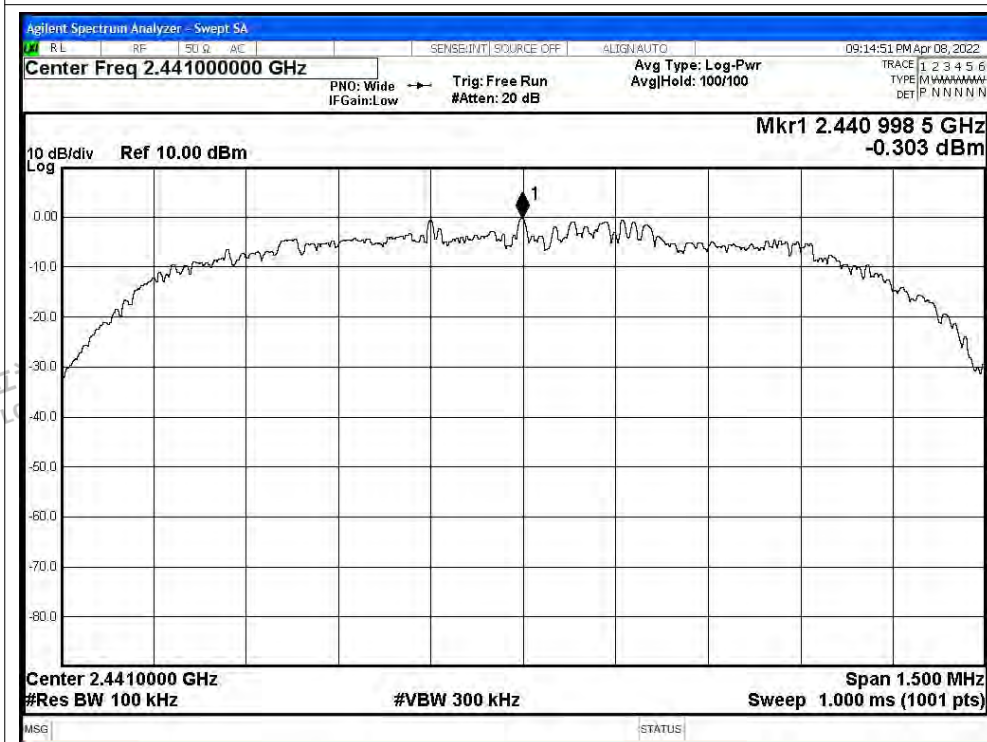
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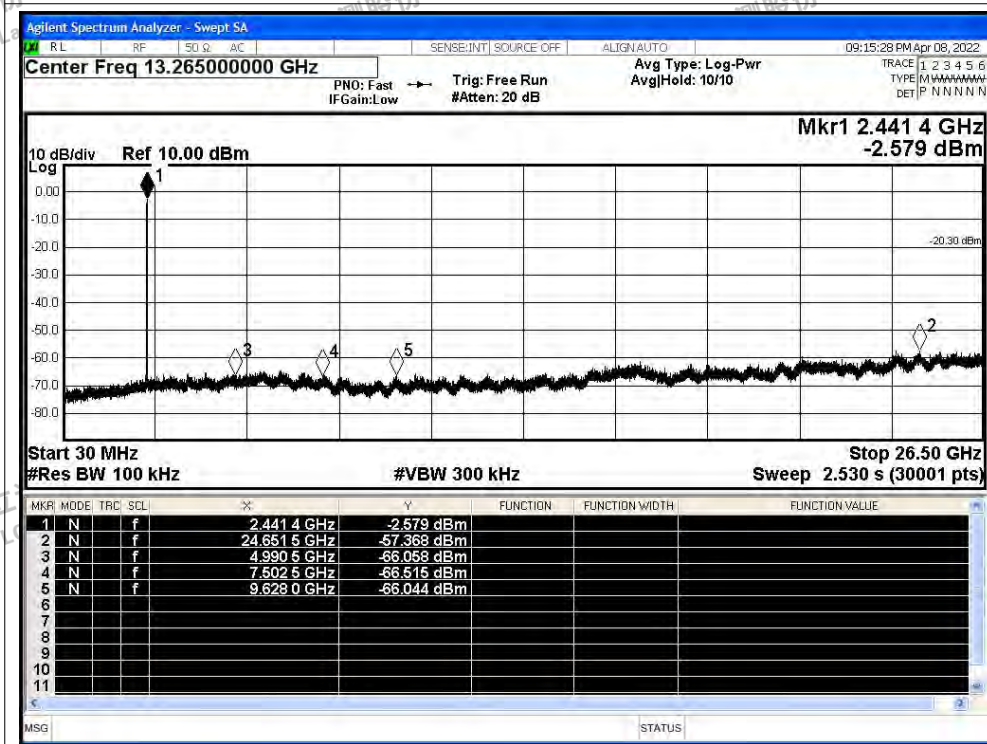
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Scan code to check authenticity

Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



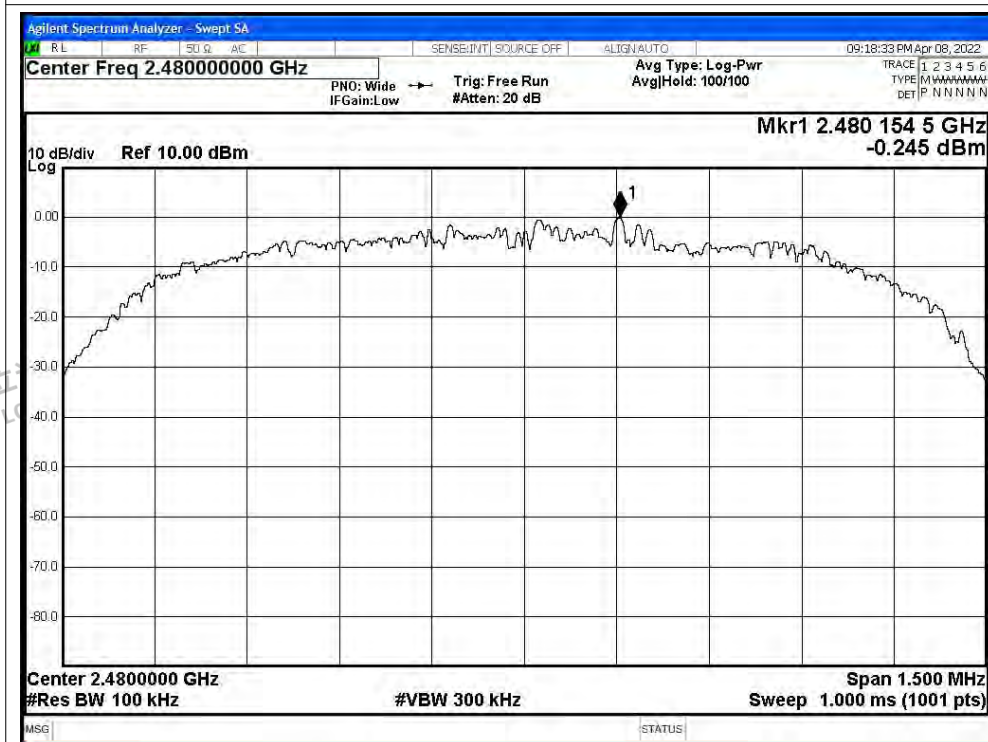
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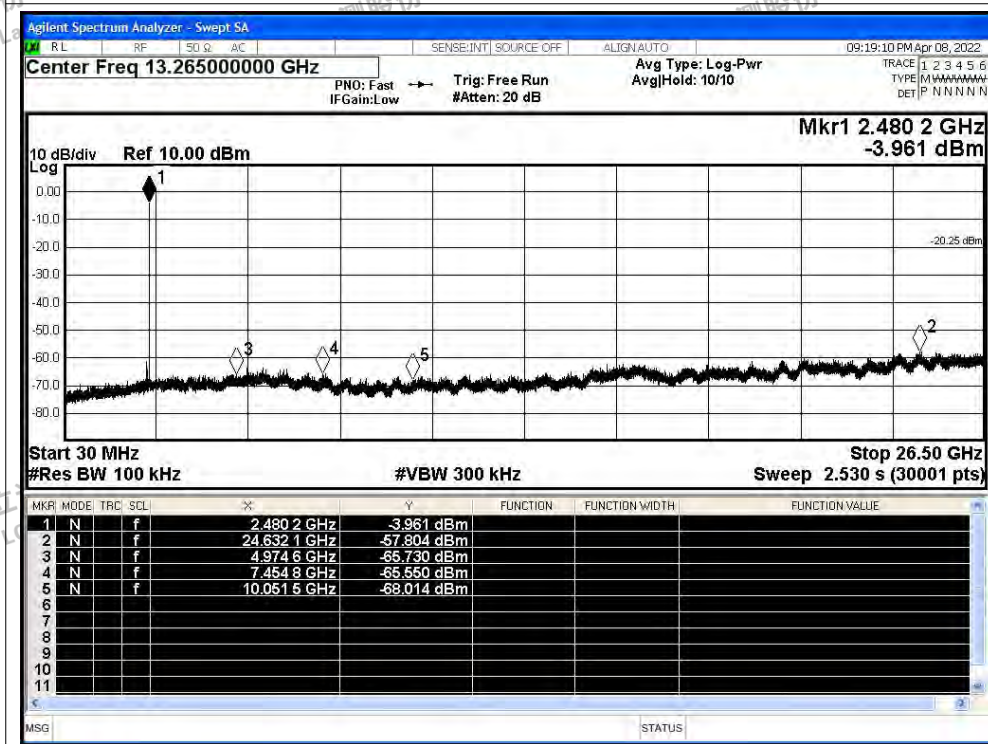
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.9 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	-52.24	2	45.02	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	2348.88	-48.39	2	48.87	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382.576	-61.52	2	35.74	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.82	2	45.44	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-61.73	2	35.53	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-51.26	2	46	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-61.04	2	36.22	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2496.688	-48.84	2	48.42	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.56	-60.93	2	36.33	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-52.2	2	45.06	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-61.66	2	35.6	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.57	2	44.69	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-61.99	2	35.27	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2339.472	-49.17	2	48.09	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2374.608	-61.57	2	35.69	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-53.6	2	43.66	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-61.83	2	35.43	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-51.6	2	45.66	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-60.91	2	36.35	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2492.176	-48.23	2	49.03	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.704	-60.86	2	36.4	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.76	2	45.5	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-61.6	2	35.66	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.84	2	44.42	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-62.17	2	35.09	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2356.752	-48.76	2	48.5	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2385.168	-61.47	2	35.79	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.09	2	46.17	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-61.54	2	35.72	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-51.17	2	46.09	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-60.8	2	36.46	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.688	-48.8	2	48.46	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.536	-60.75	2	36.51	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-51.89	2	45.37	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-61.65	2	35.61	Average	54	Pass



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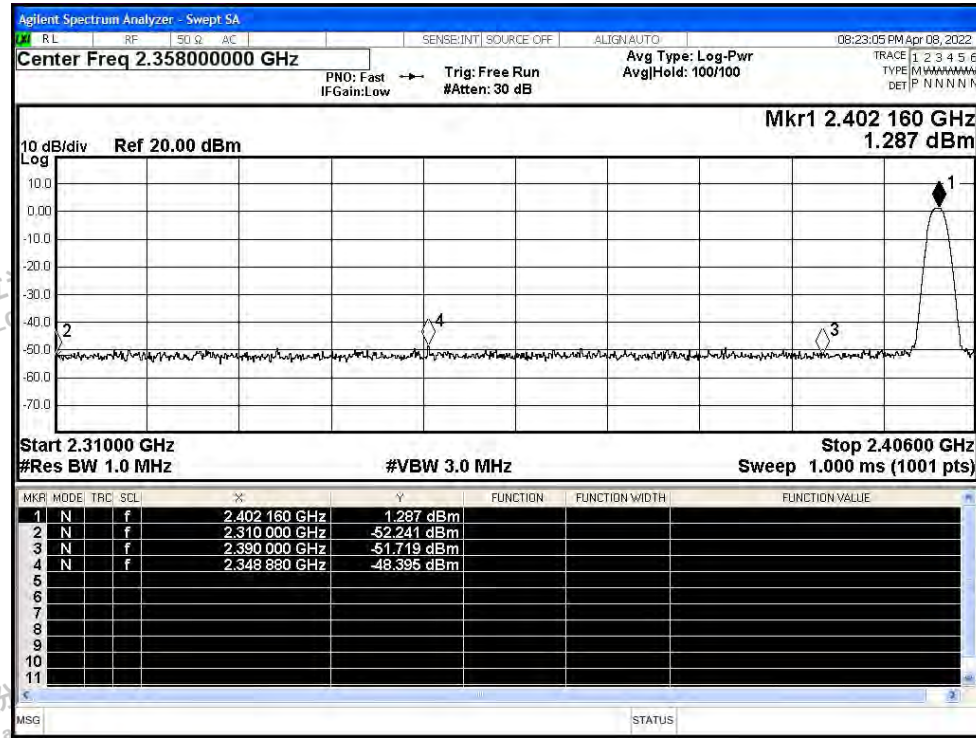
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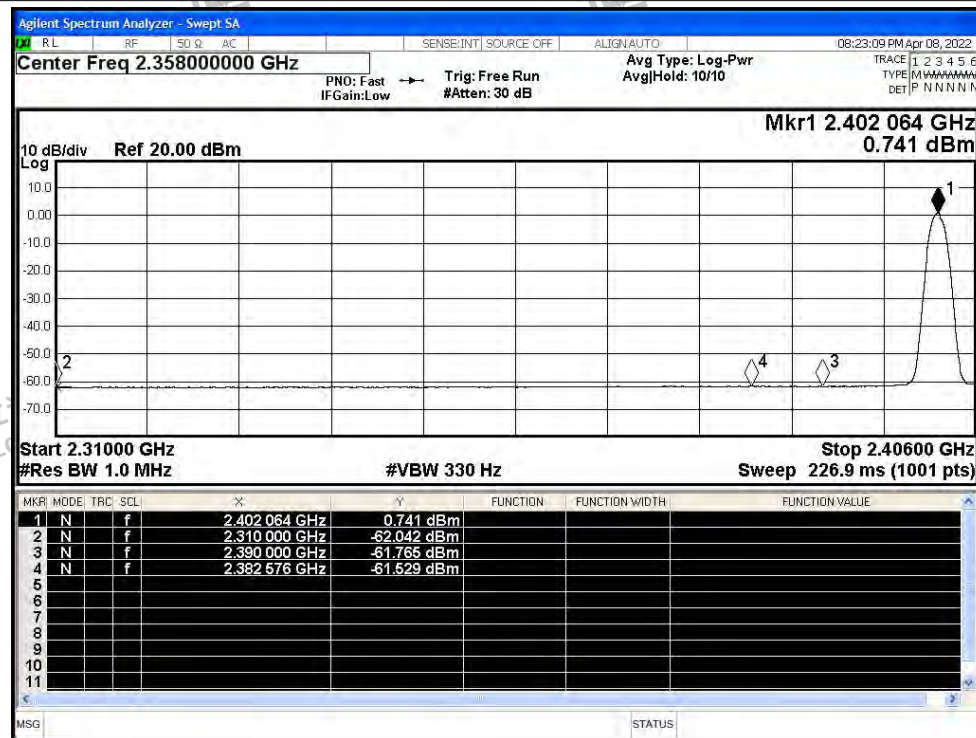
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Test Graphs

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



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



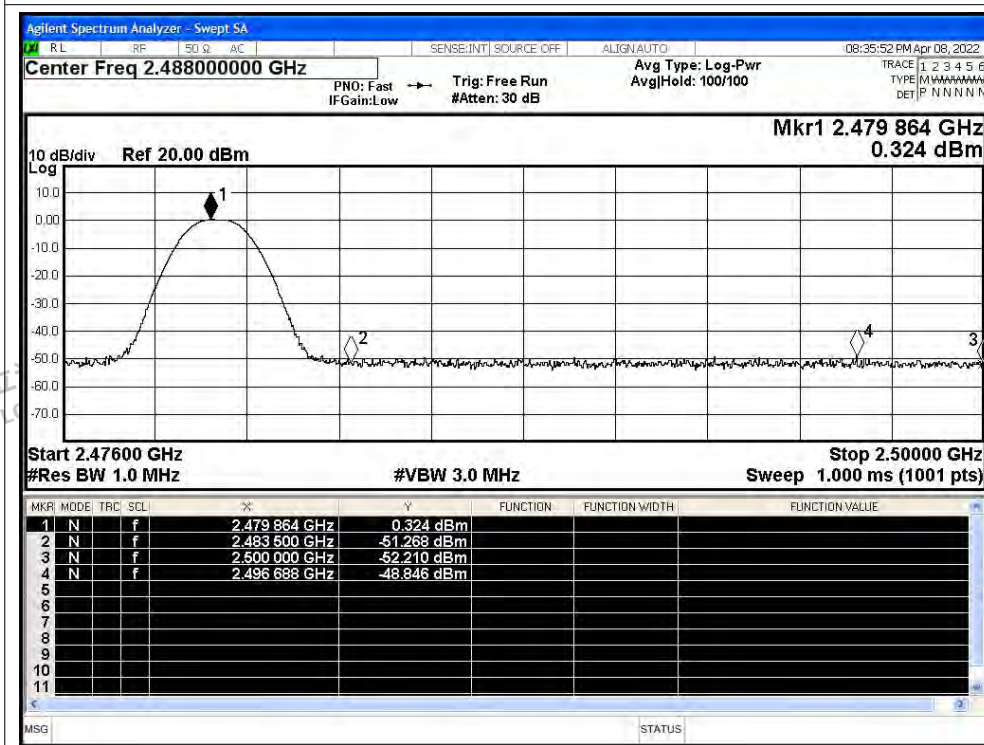
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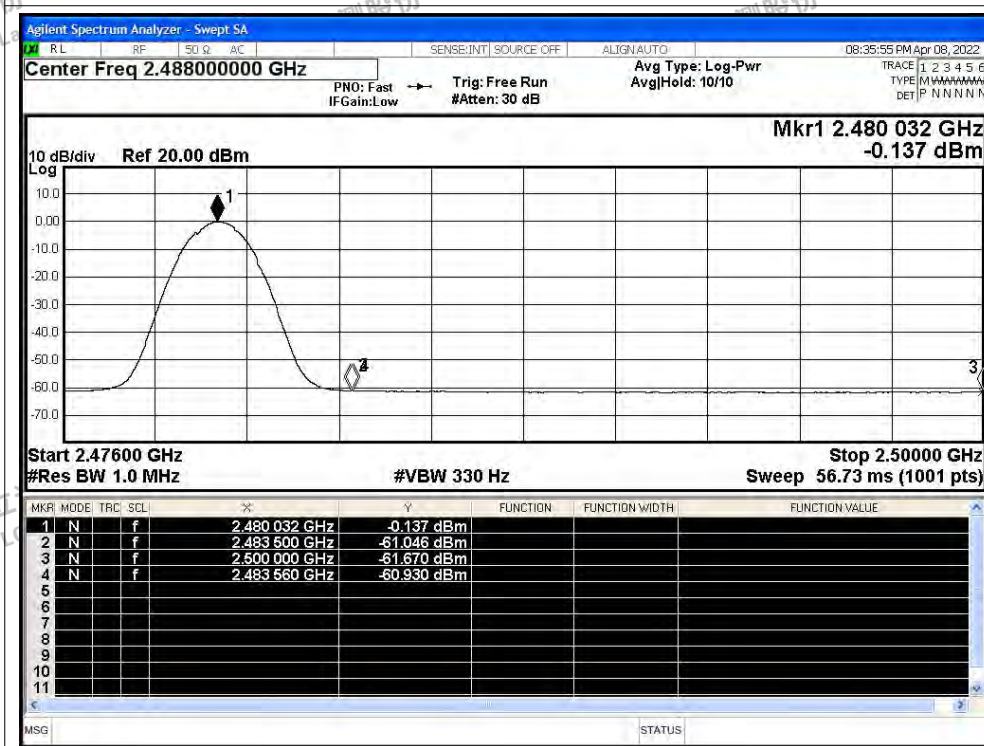
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



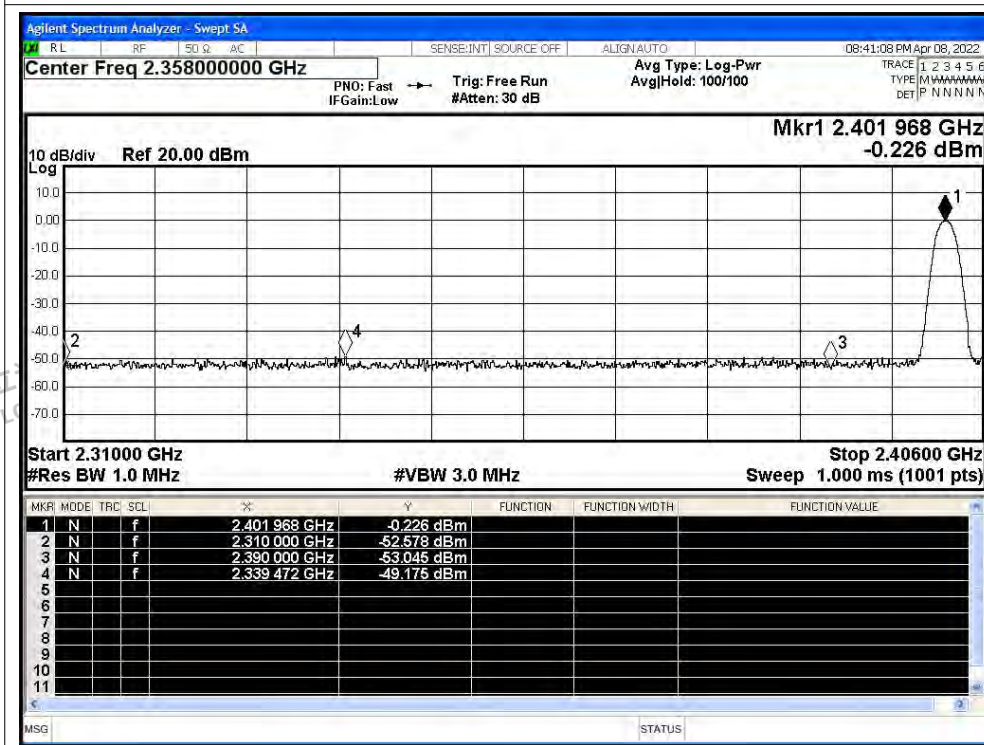
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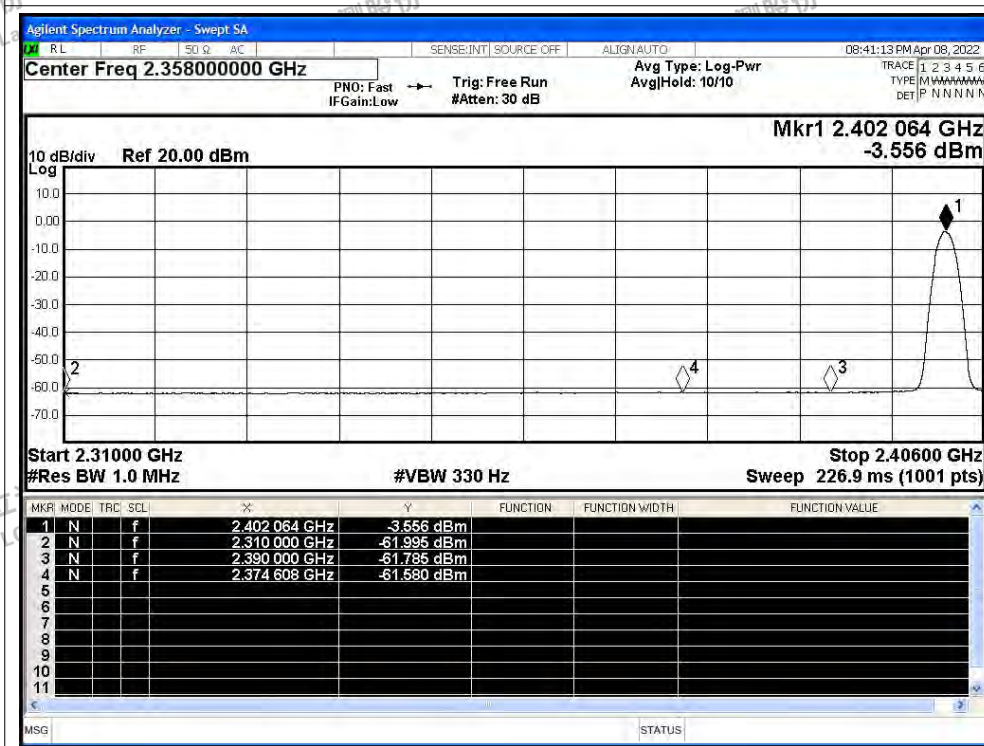
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



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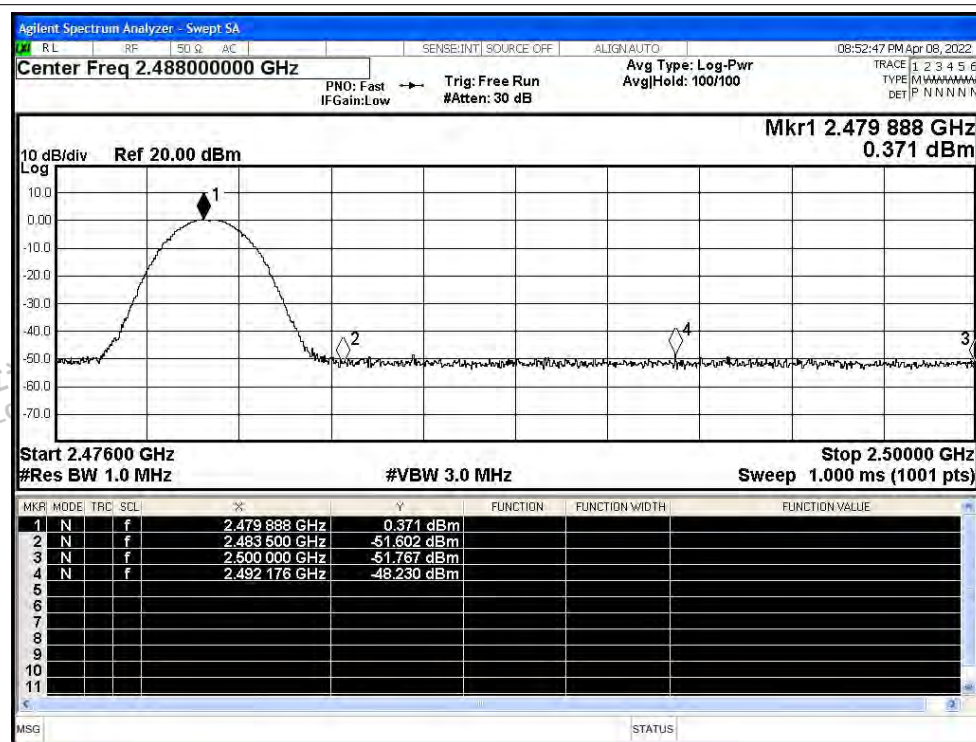
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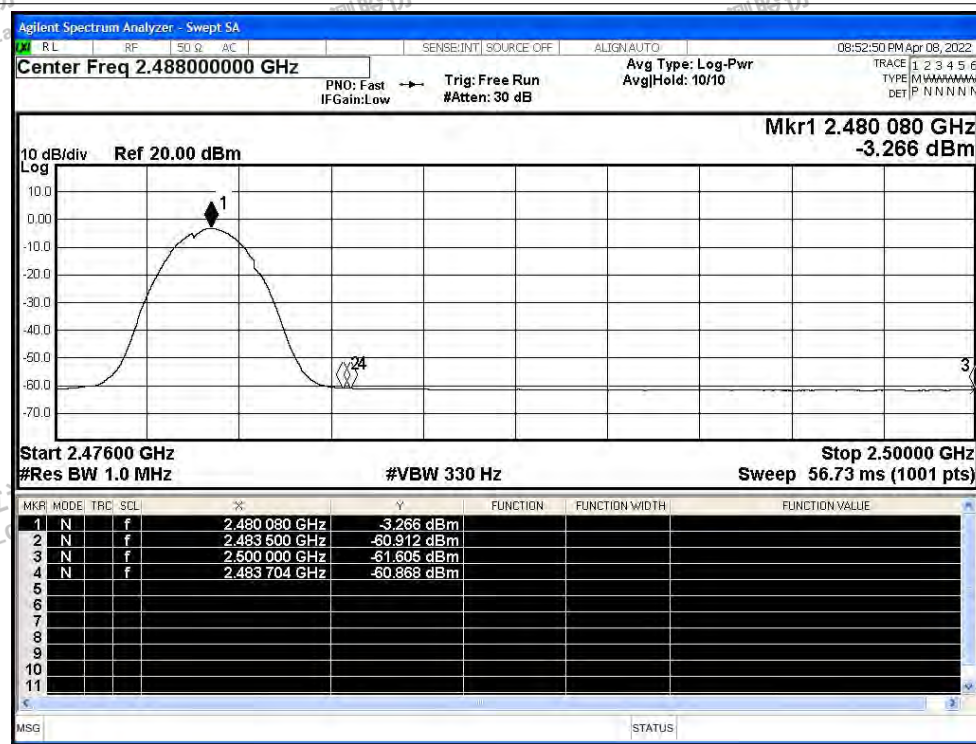
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



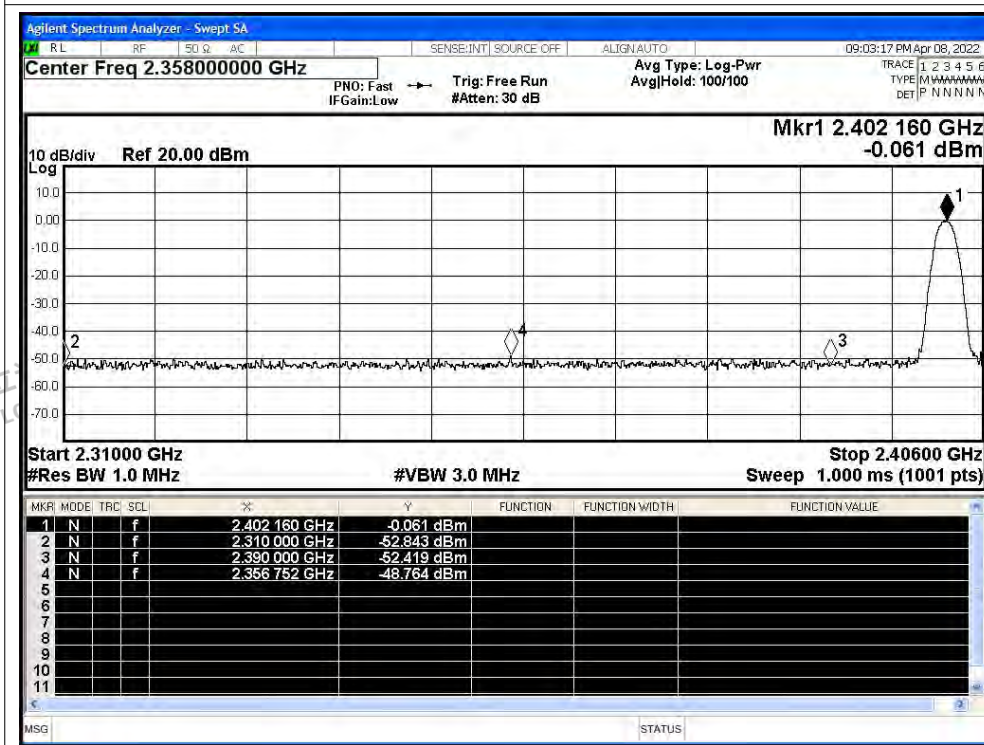
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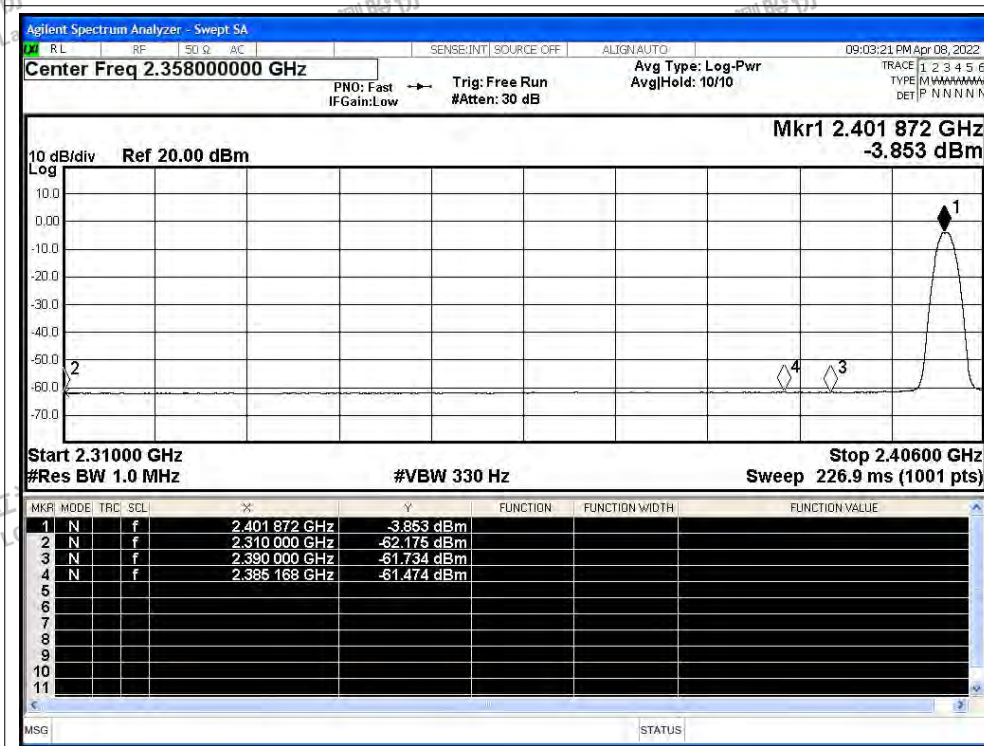
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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



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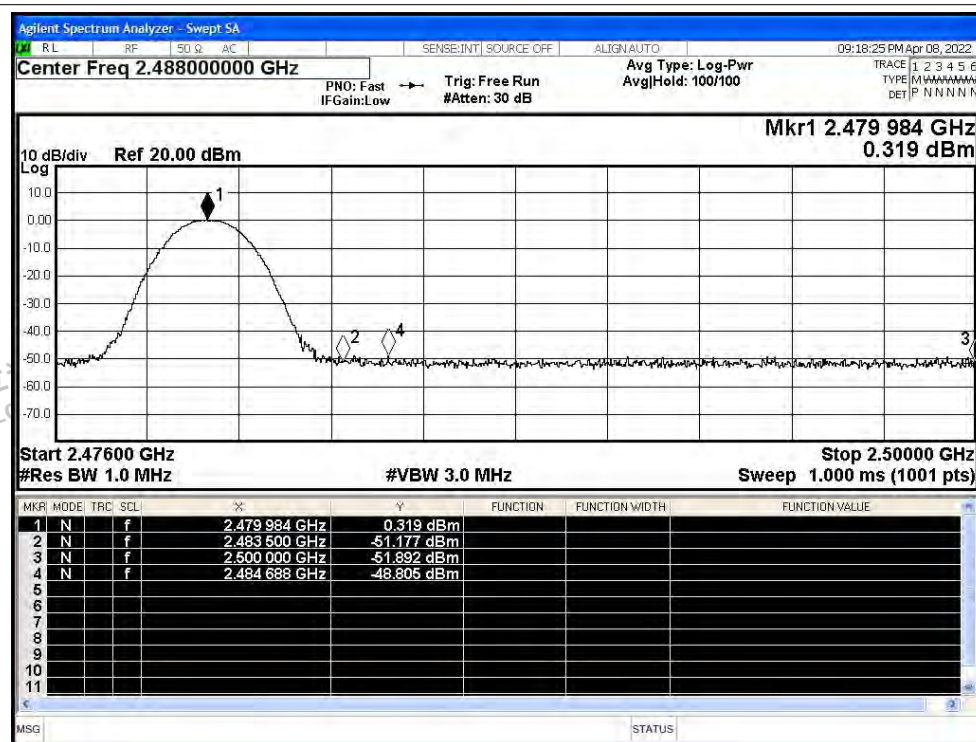
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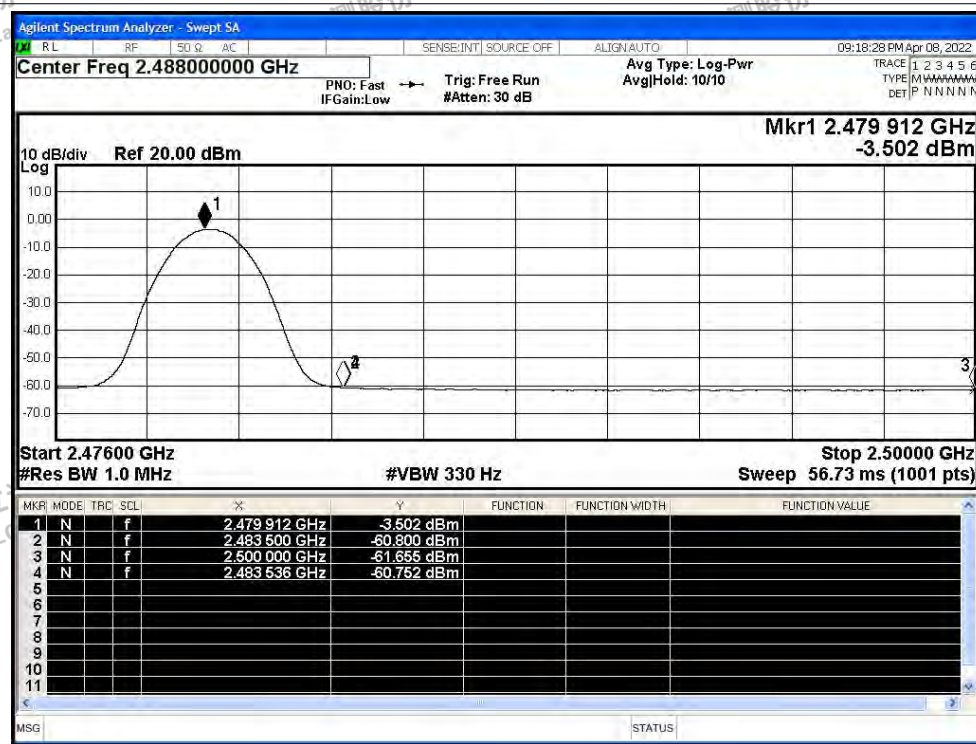
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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