



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Sunglasses

Test Model: BTSUN

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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A.1 -20dB Bandwidth

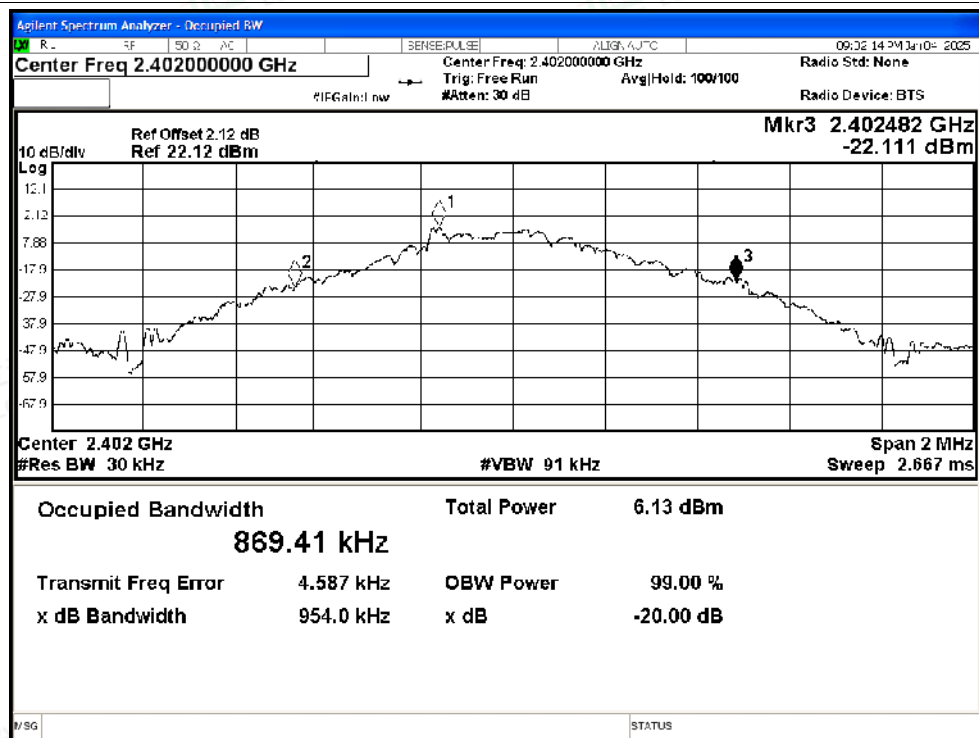
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.954	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.954	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.946	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.284	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.313	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.284	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.298	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.296	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.299	N/A	Pass



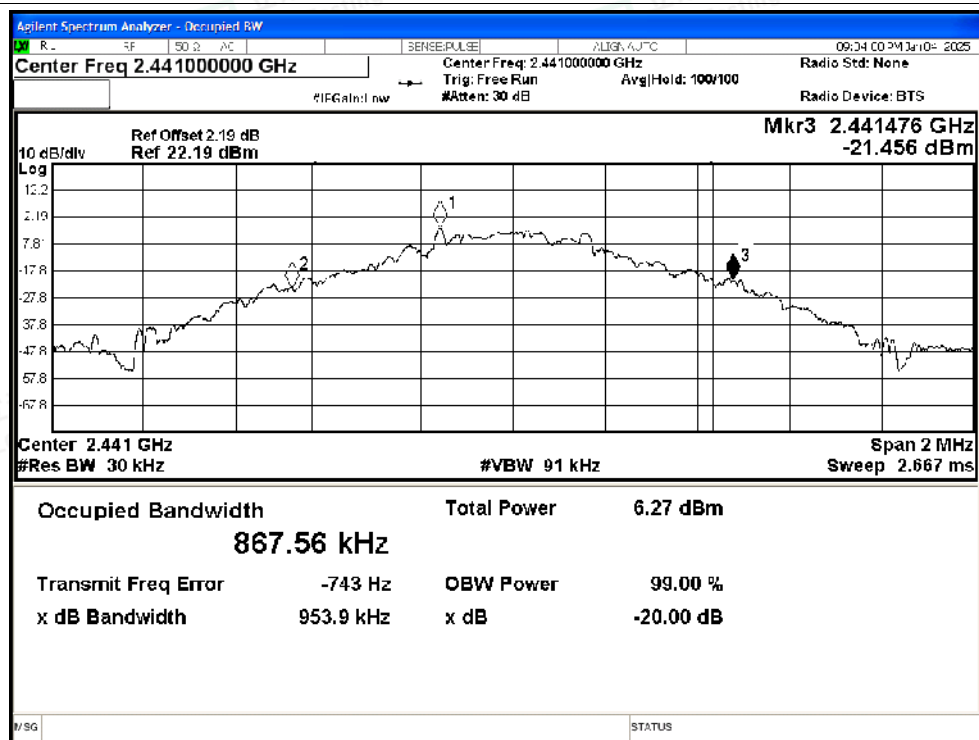


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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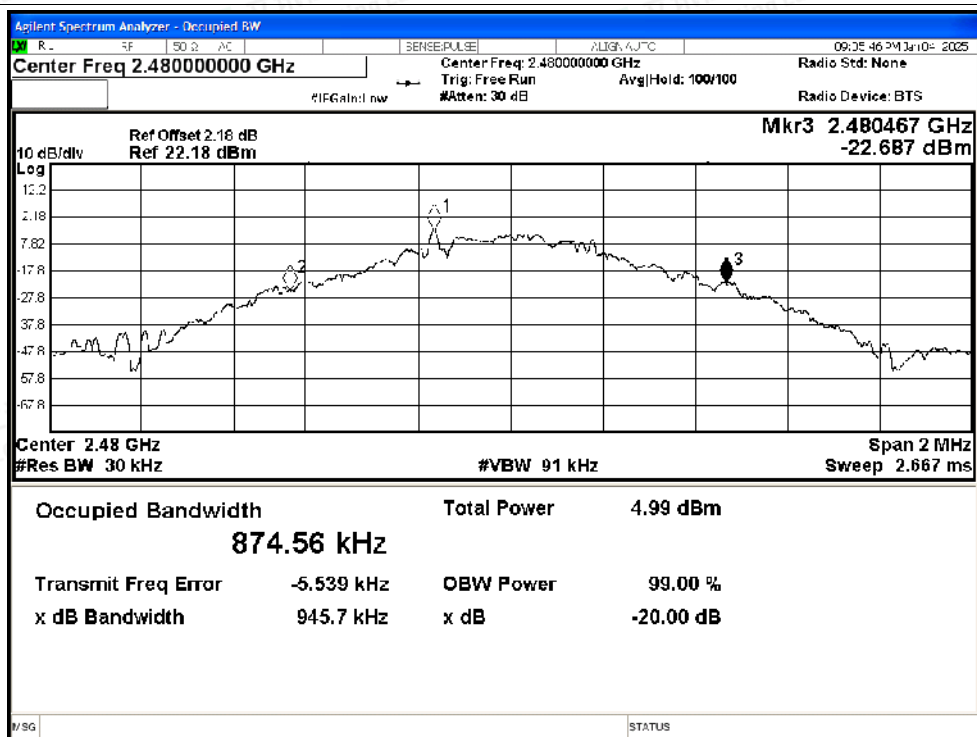
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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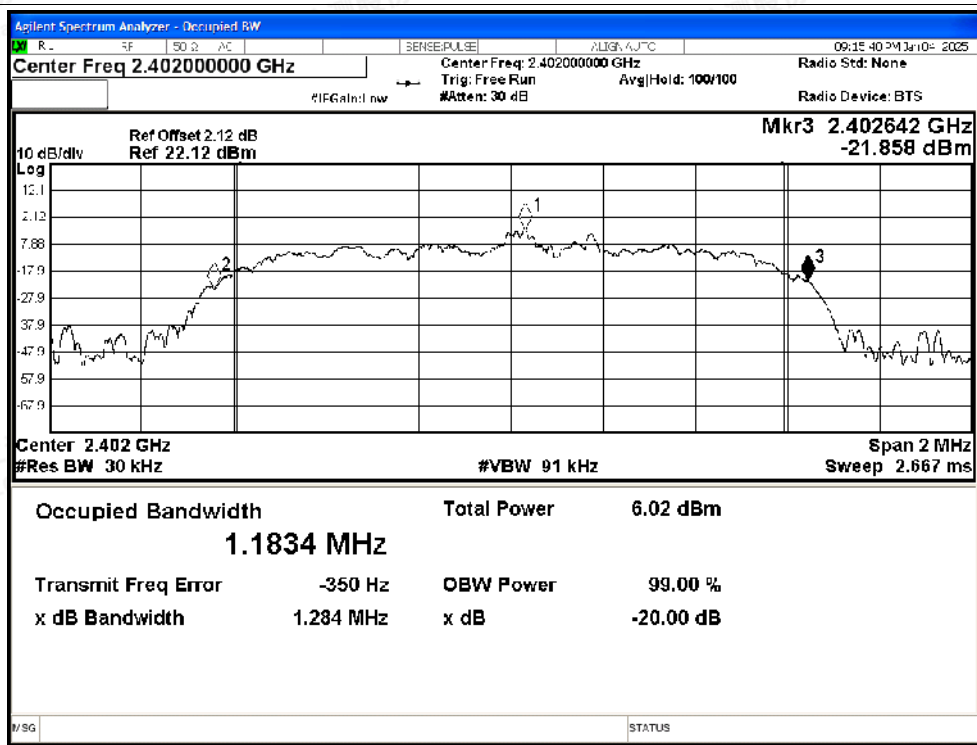
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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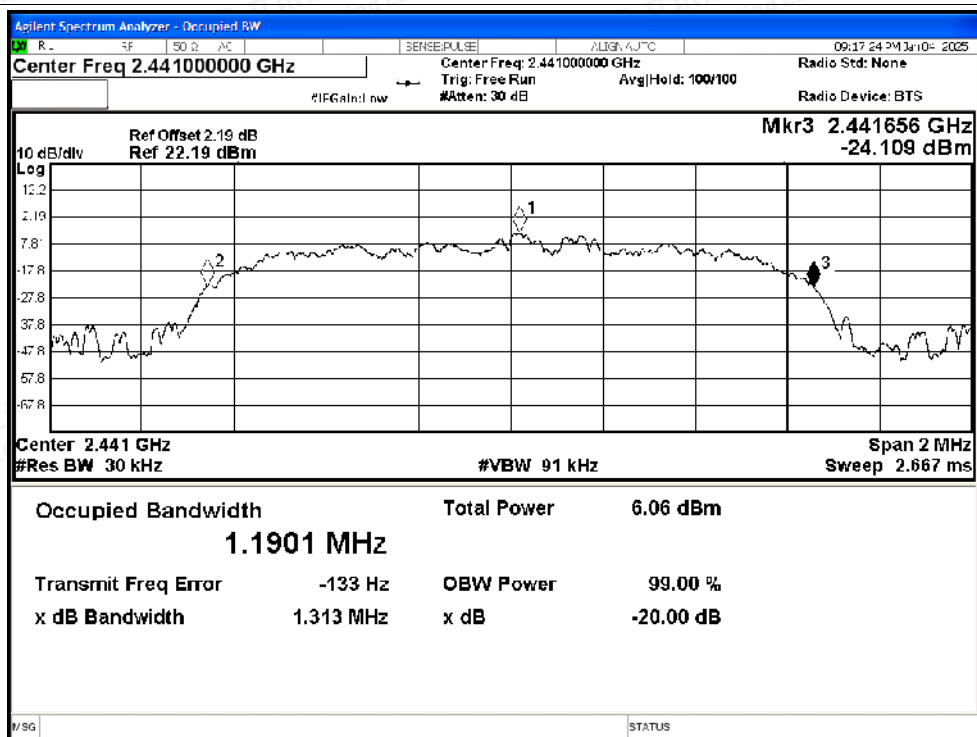
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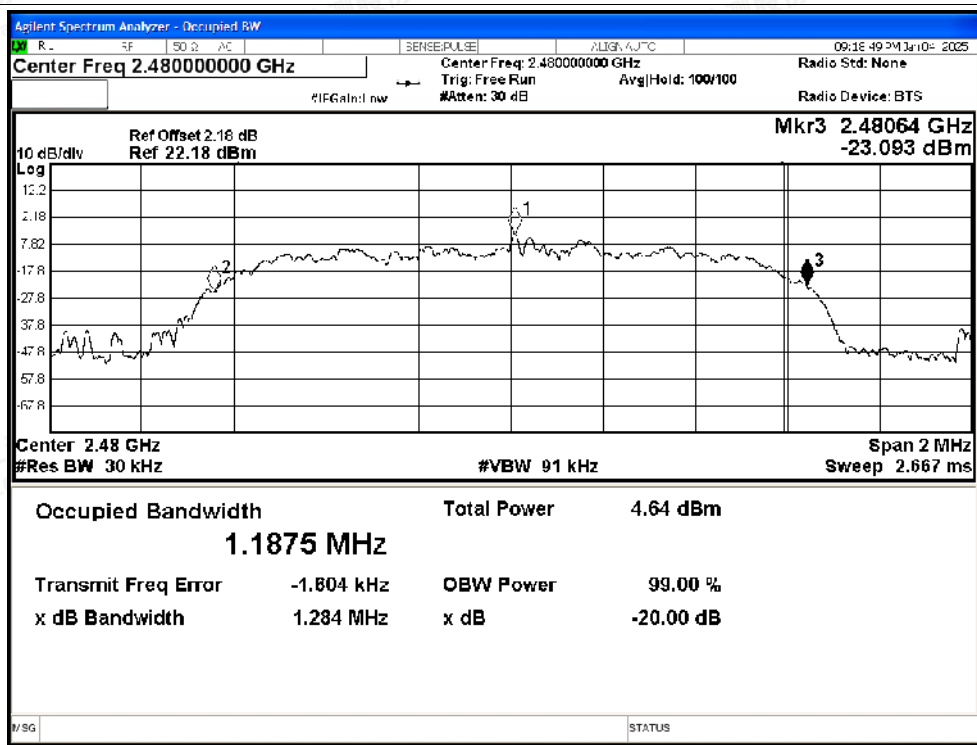
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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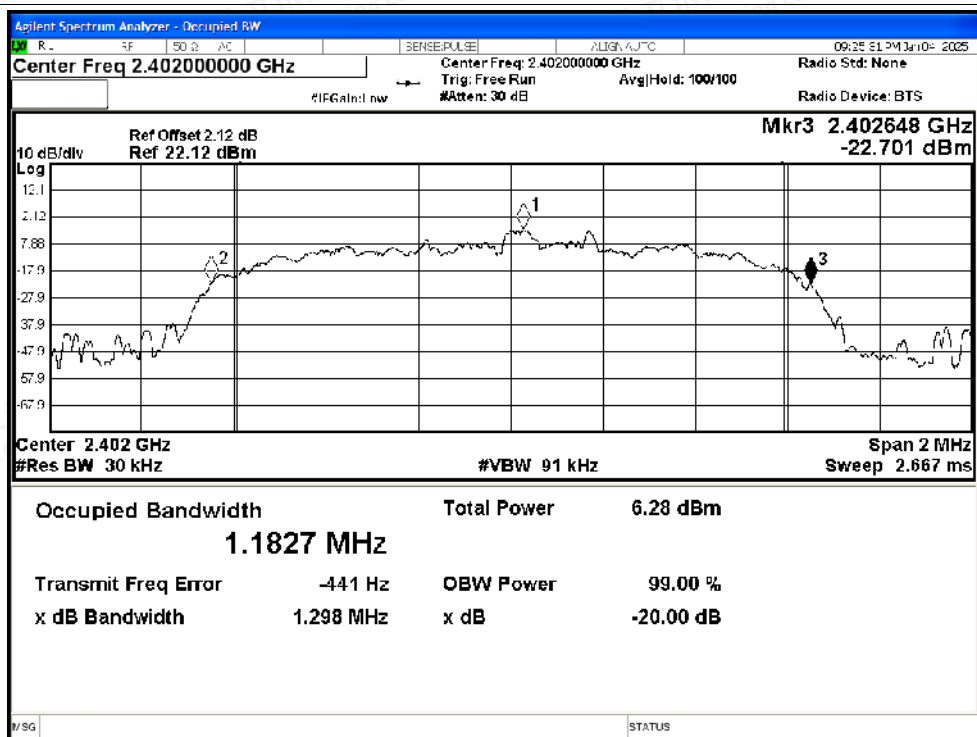
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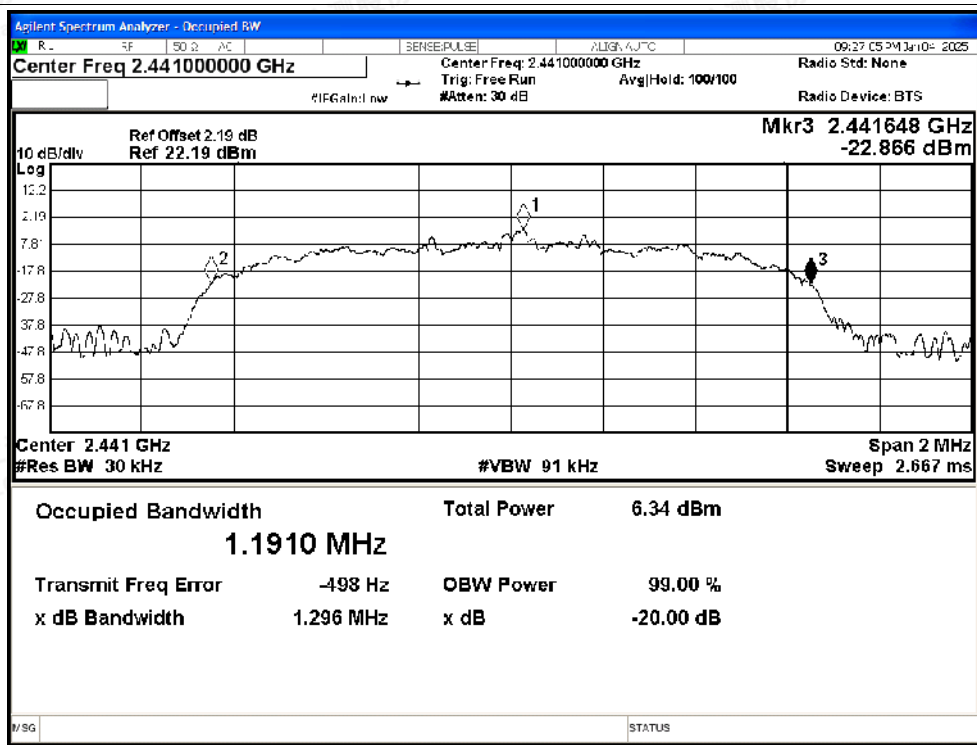
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

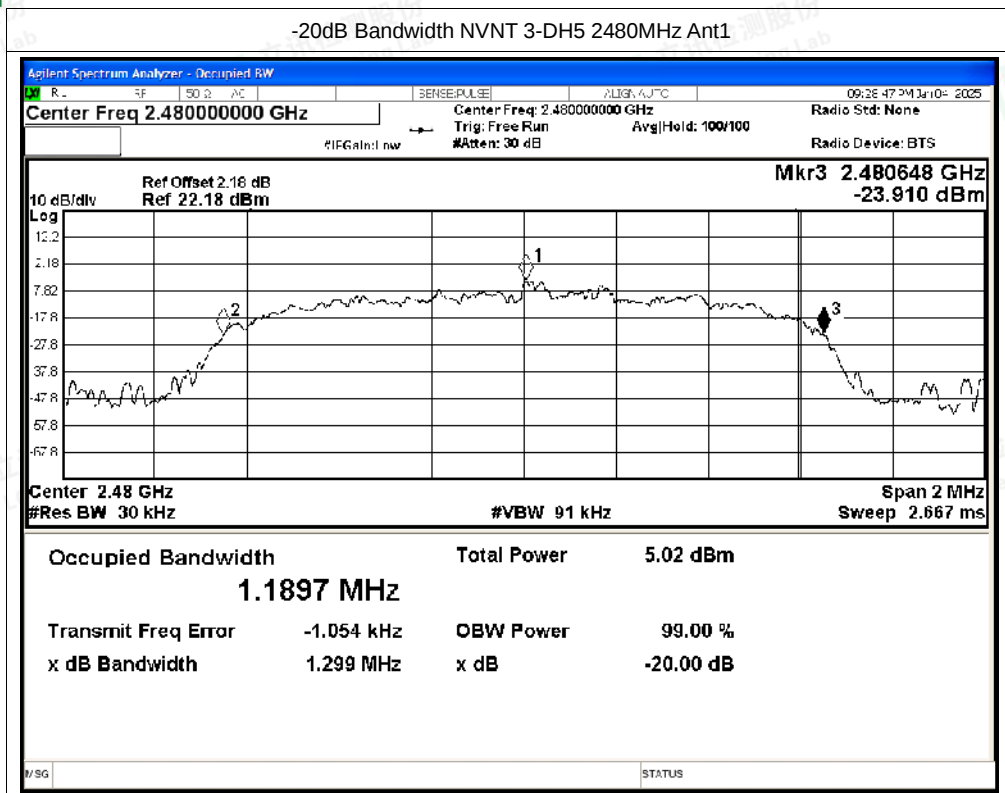


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A.2 Maximum Peak Conducted Output Power

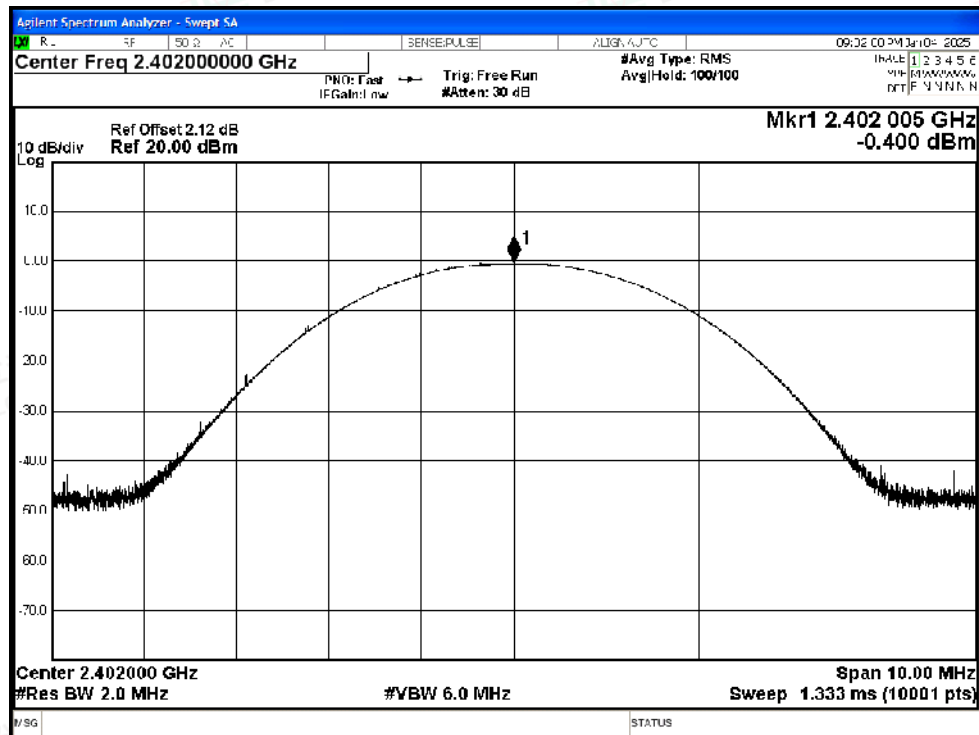
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.4	21	Pass
NVNT	1-DH5	2441	Ant1	-0.3	21	Pass
NVNT	1-DH5	2480	Ant1	-1.17	21	Pass
NVNT	2-DH5	2402	Ant1	1.5	21	Pass
NVNT	2-DH5	2441	Ant1	1.69	21	Pass
NVNT	2-DH5	2480	Ant1	0.54	21	Pass
NVNT	3-DH5	2402	Ant1	1.82	21	Pass
NVNT	3-DH5	2441	Ant1	1.96	21	Pass
NVNT	3-DH5	2480	Ant1	0.82	21	Pass



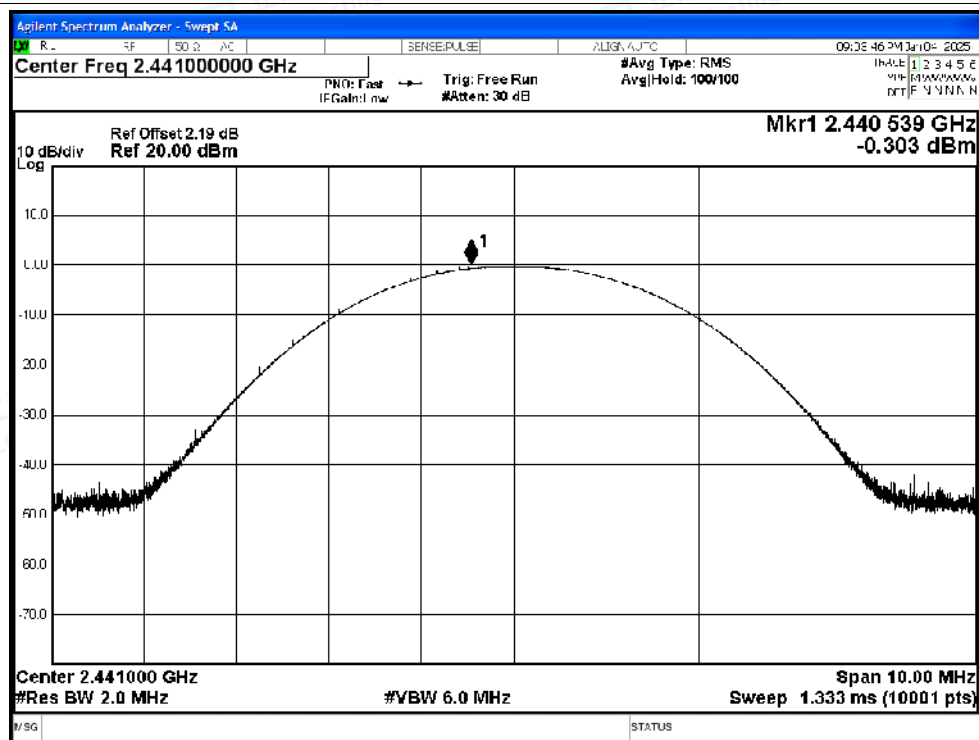


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

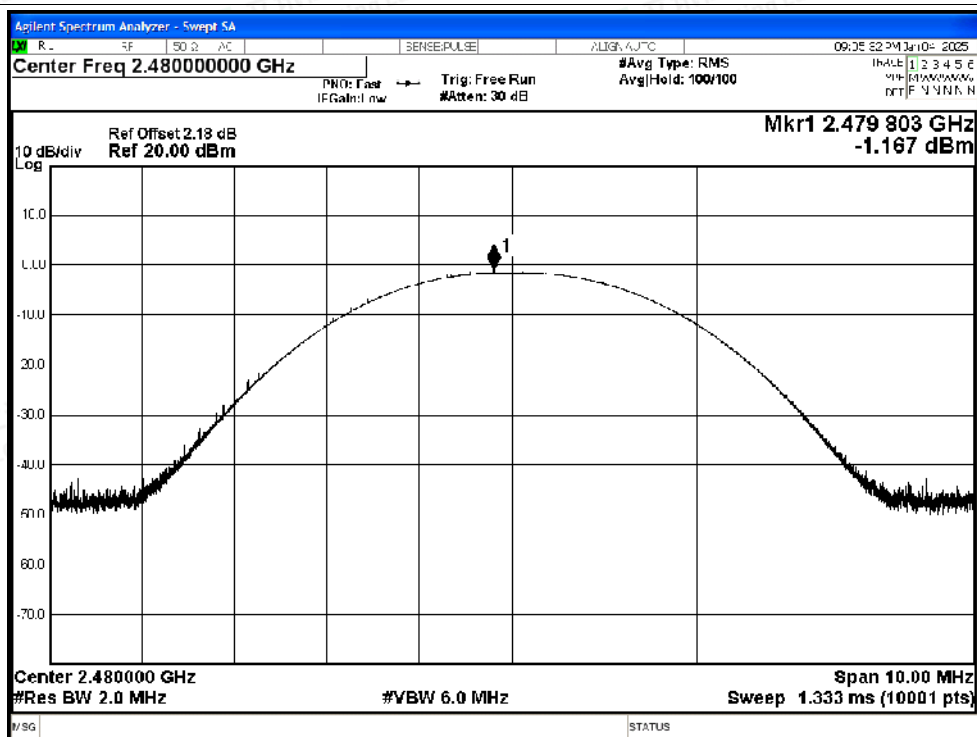


Power NVNT 1-DH5 2441MHz Ant1

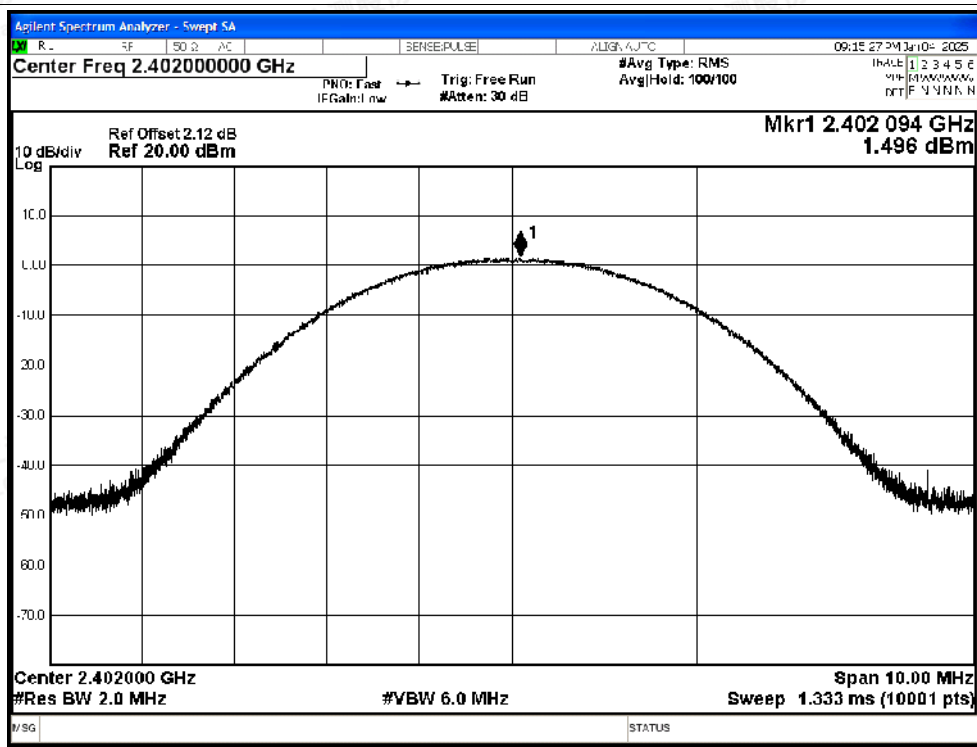




Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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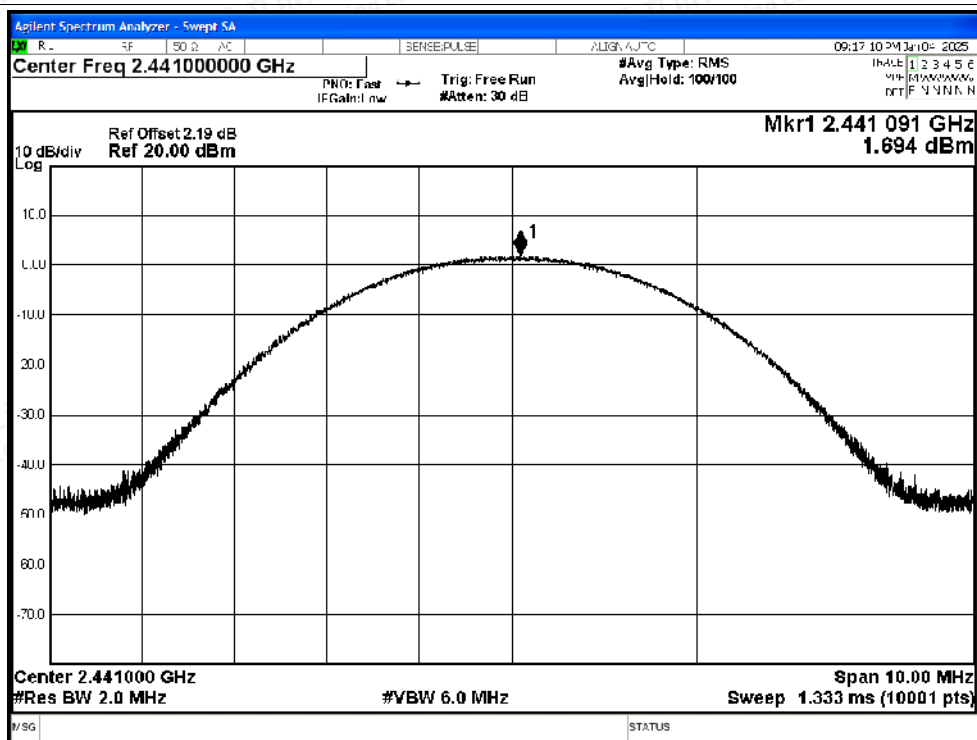
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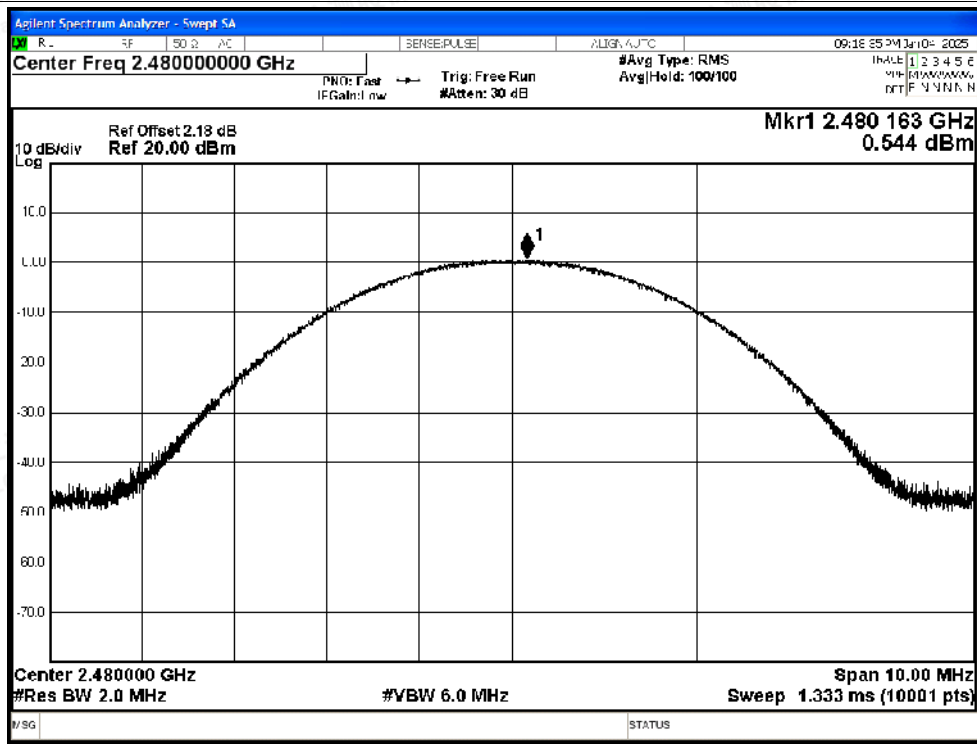
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Power NVNT 2-DH5 2441MHz Ant1

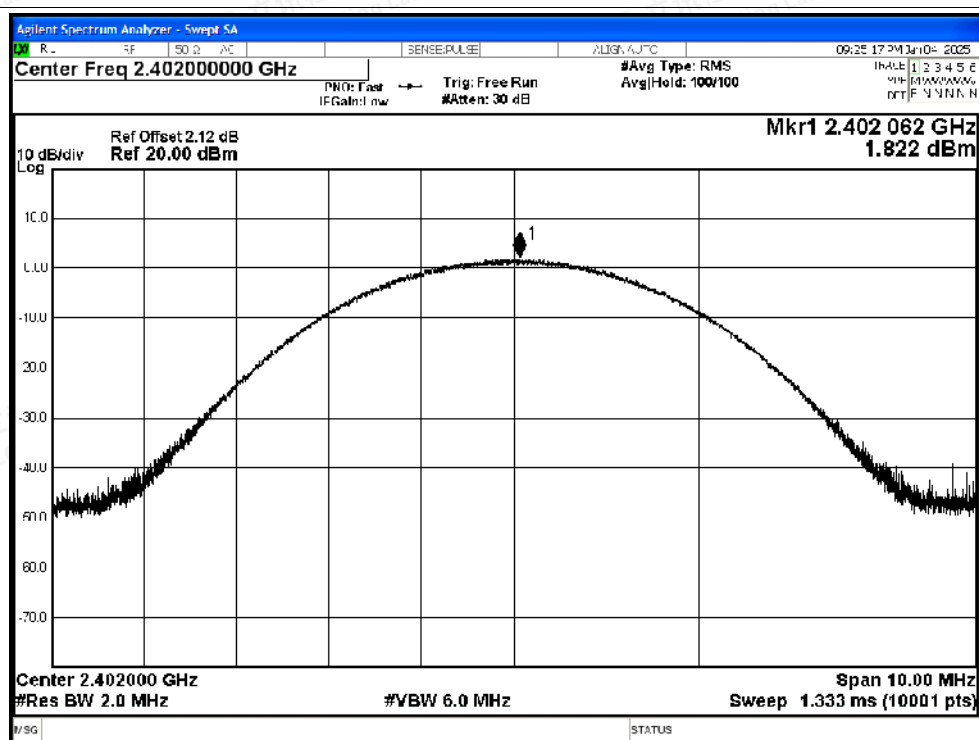


Power NVNT 2-DH5 2480MHz Ant1

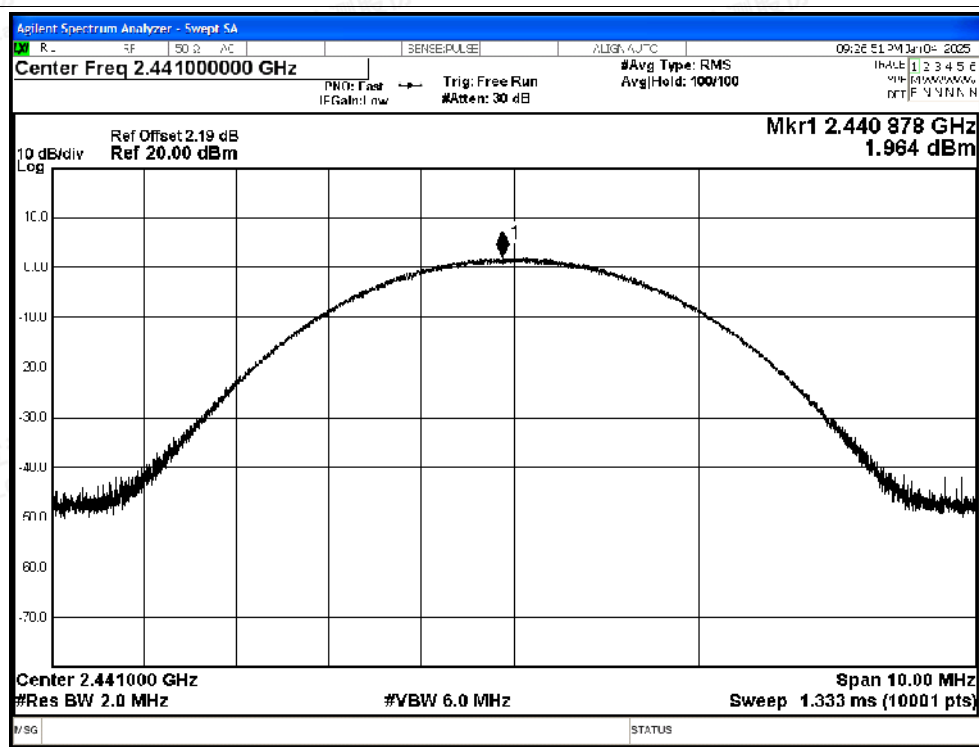




Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

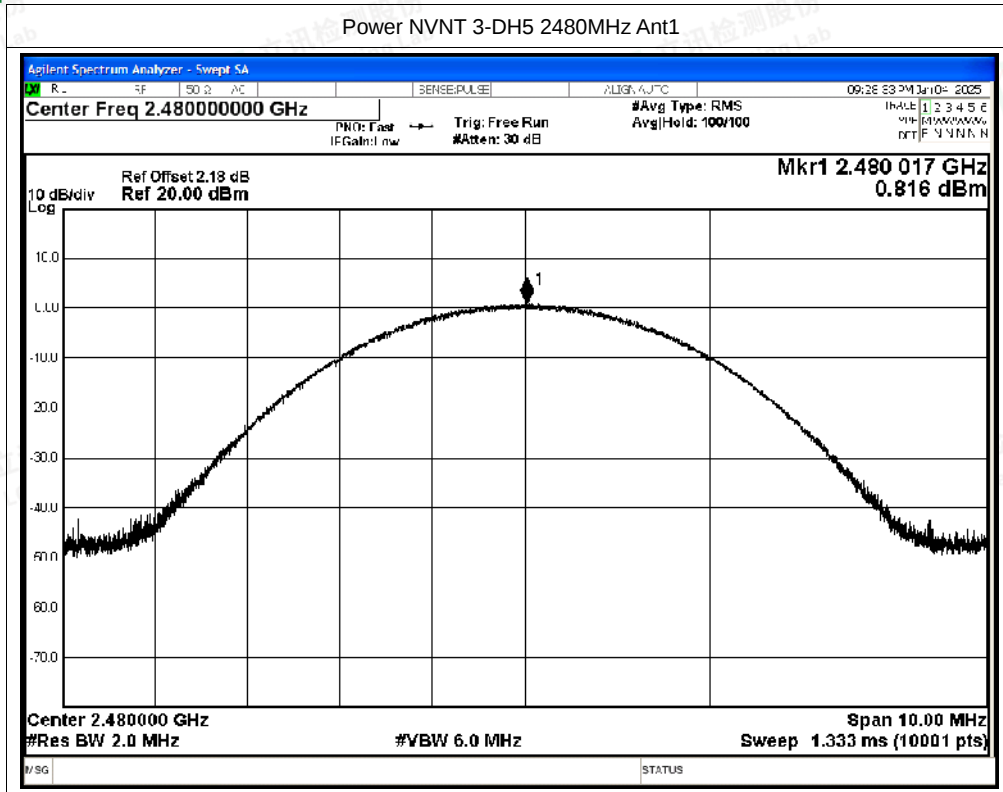


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.004	2403.028	1.024	0.636	Pass
NVNT	2-DH5	Ant1	2402.034	2403.014	0.98	0.875	Pass
NVNT	3-DH5	Ant1	2402.028	2402.996	0.968	0.866	Pass

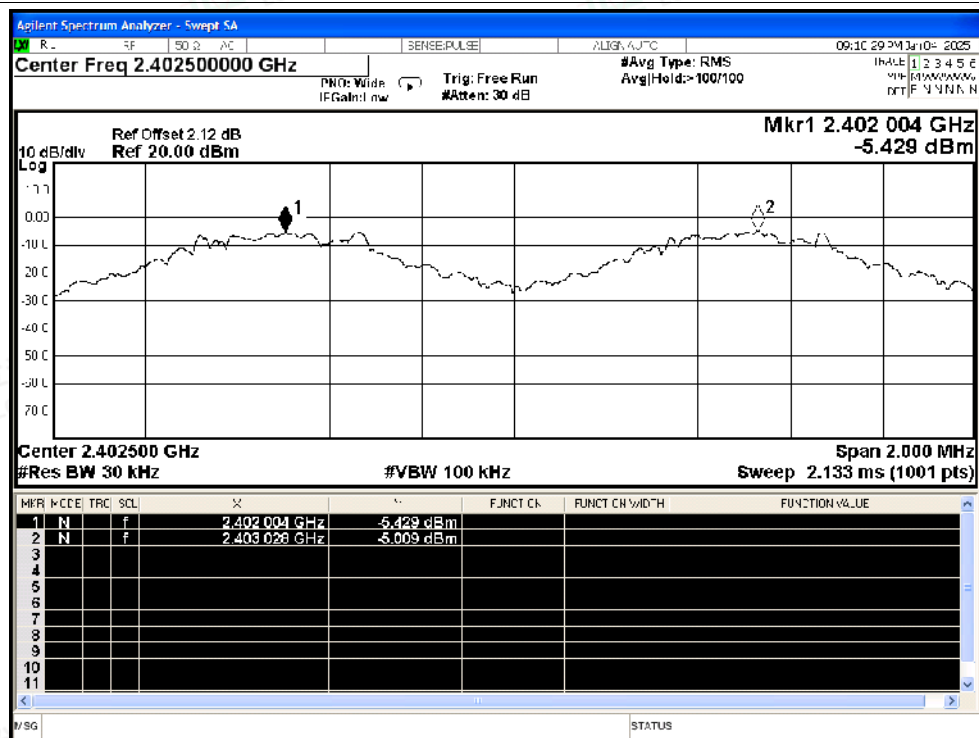


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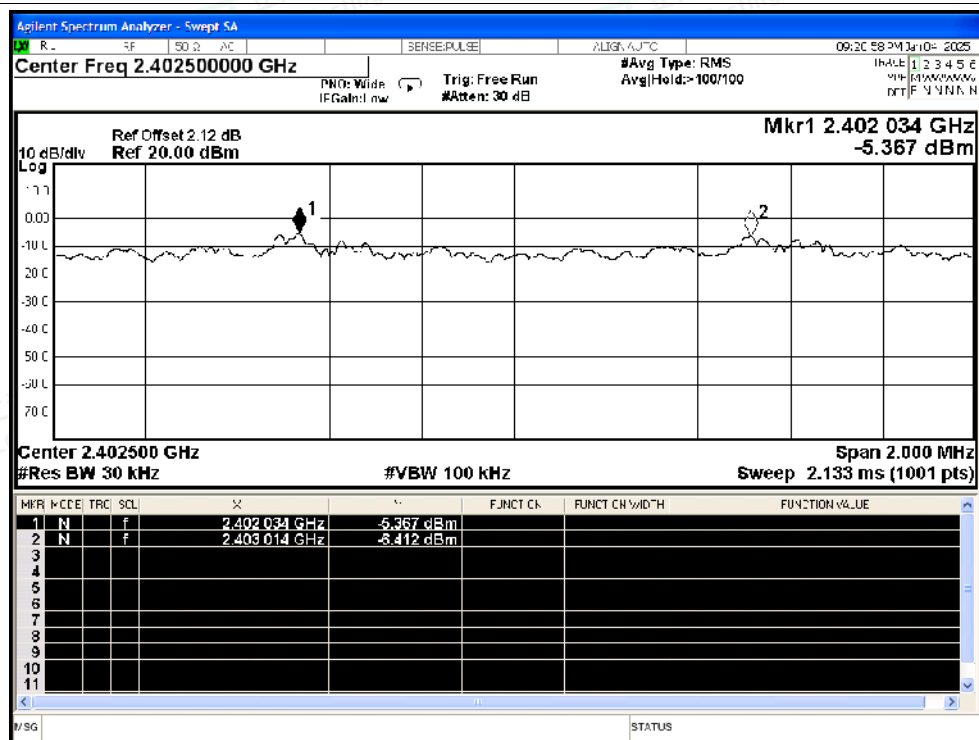


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

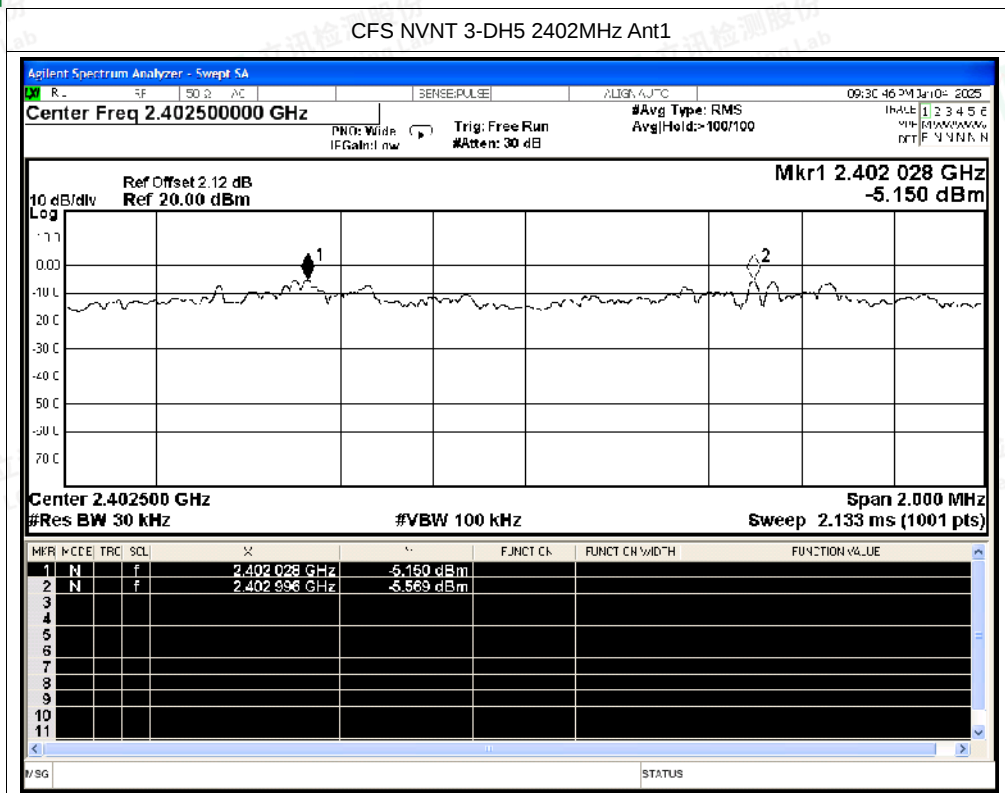


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A.4 Dwell Time

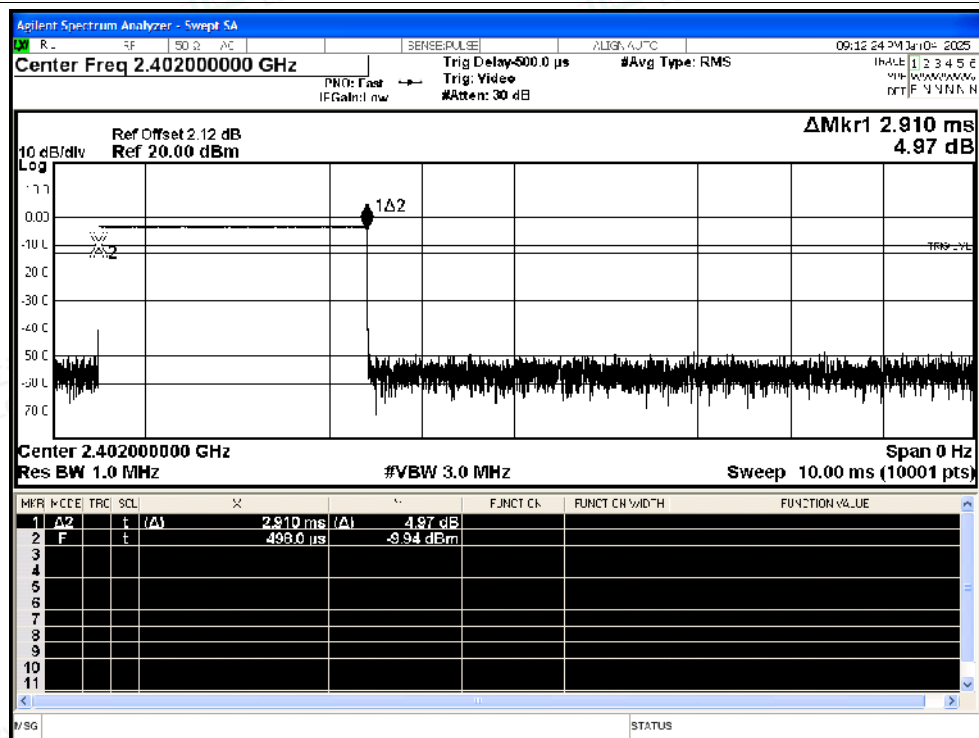
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.91	302.64	104	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.897	353.434	122	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	304.185	105	31600	400	Pass



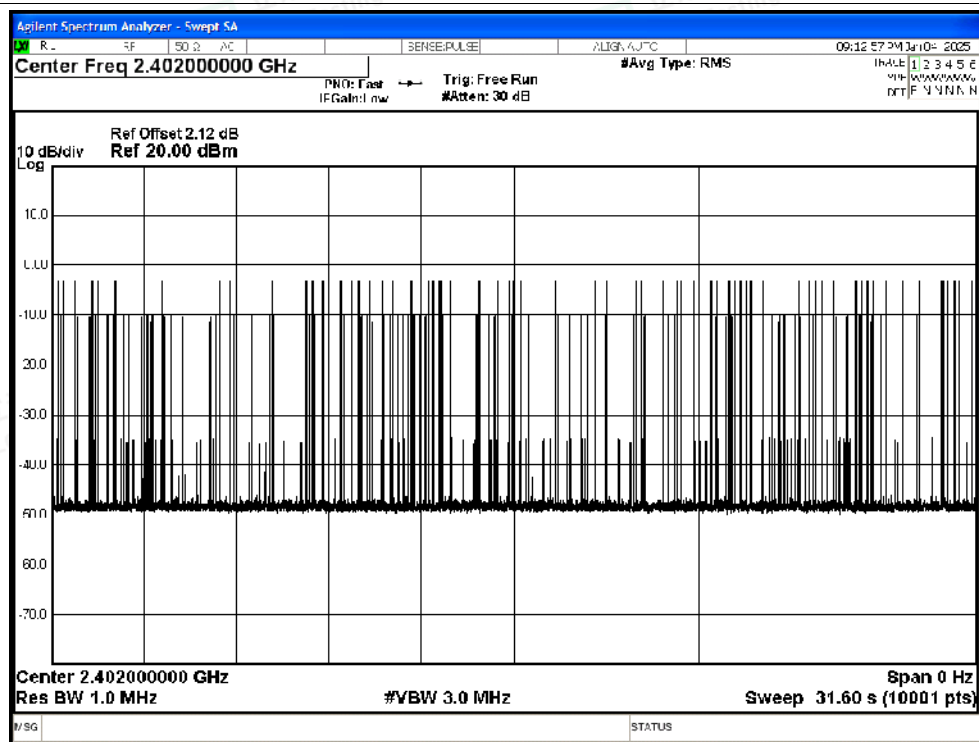


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

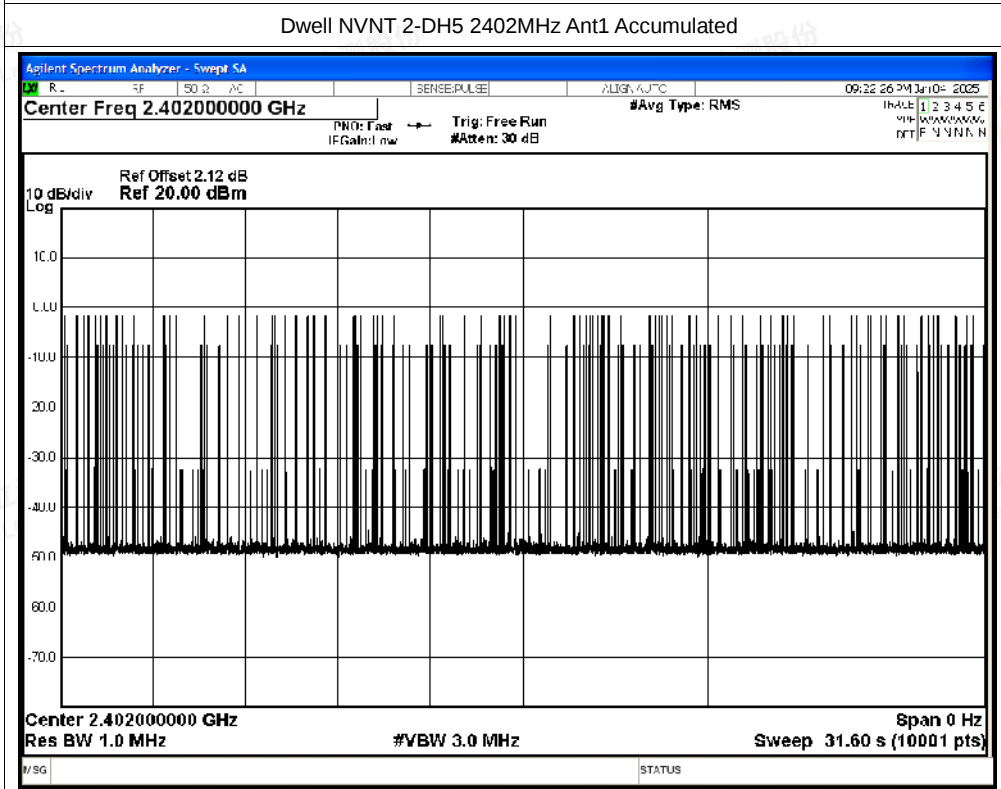
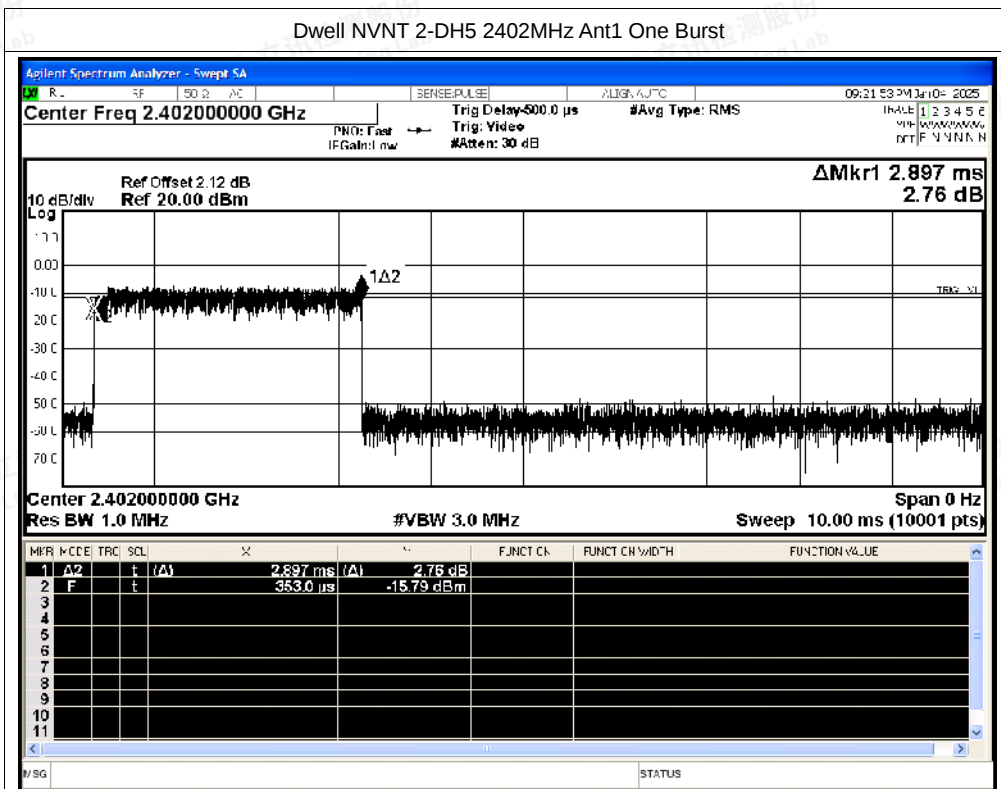


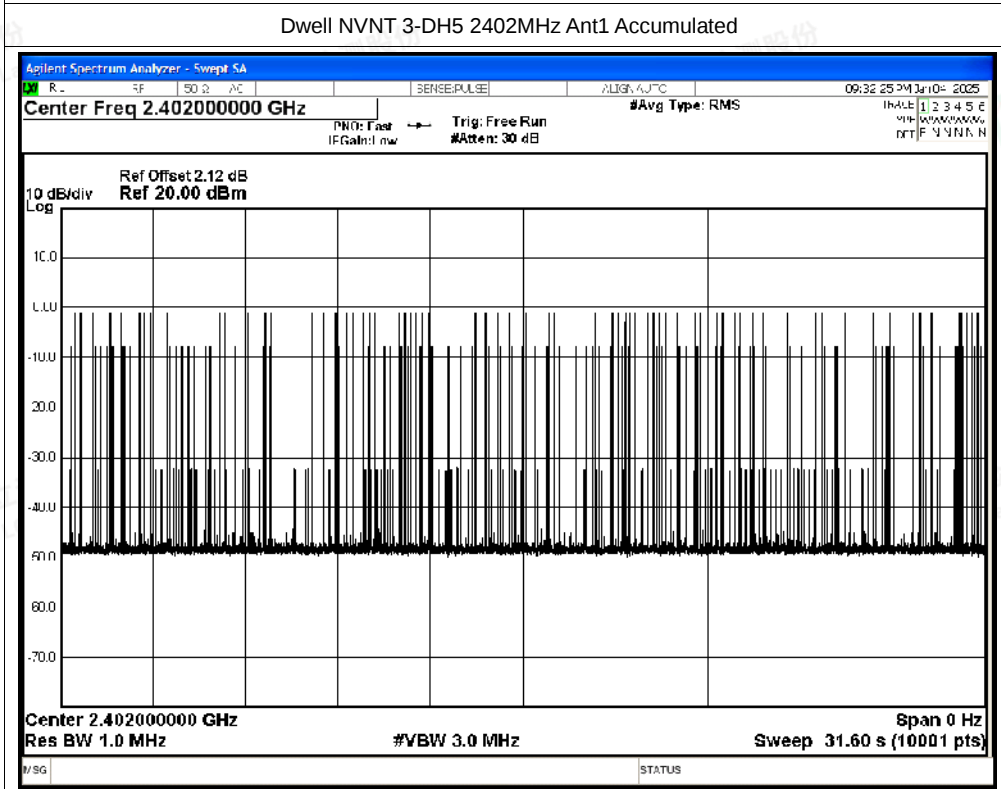
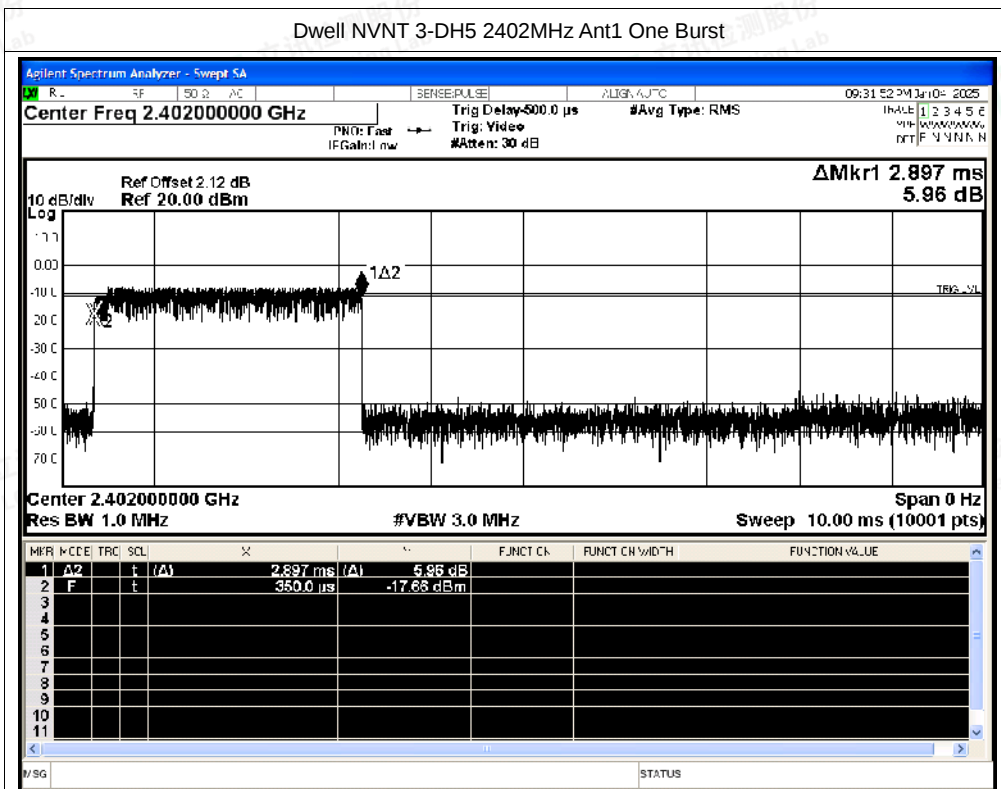
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A.5 Number of Hopping Channel

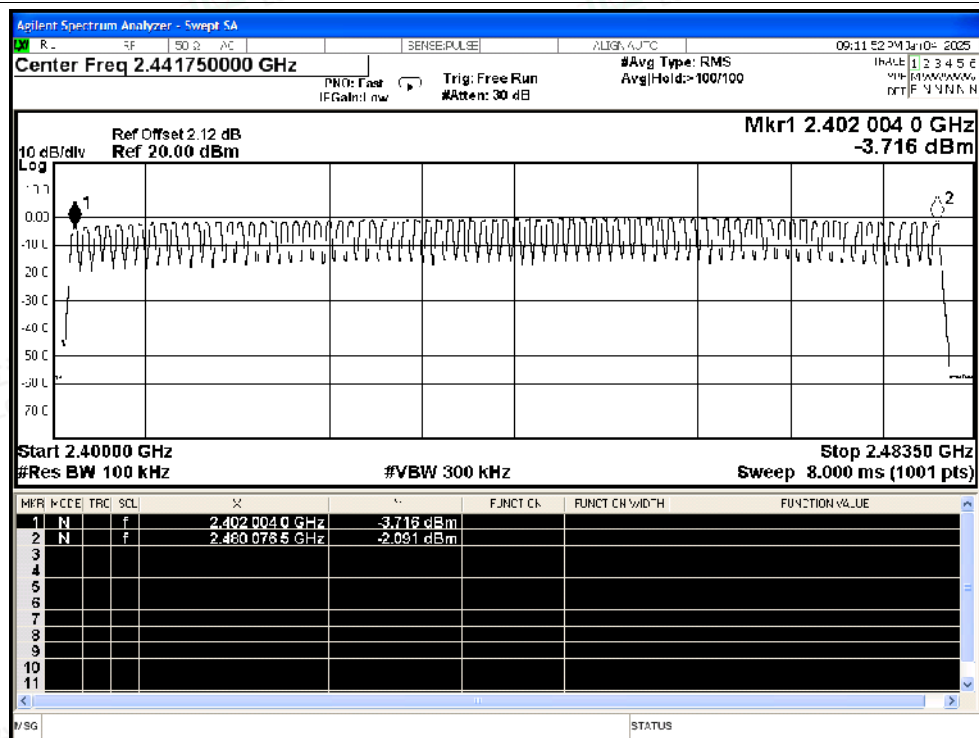
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



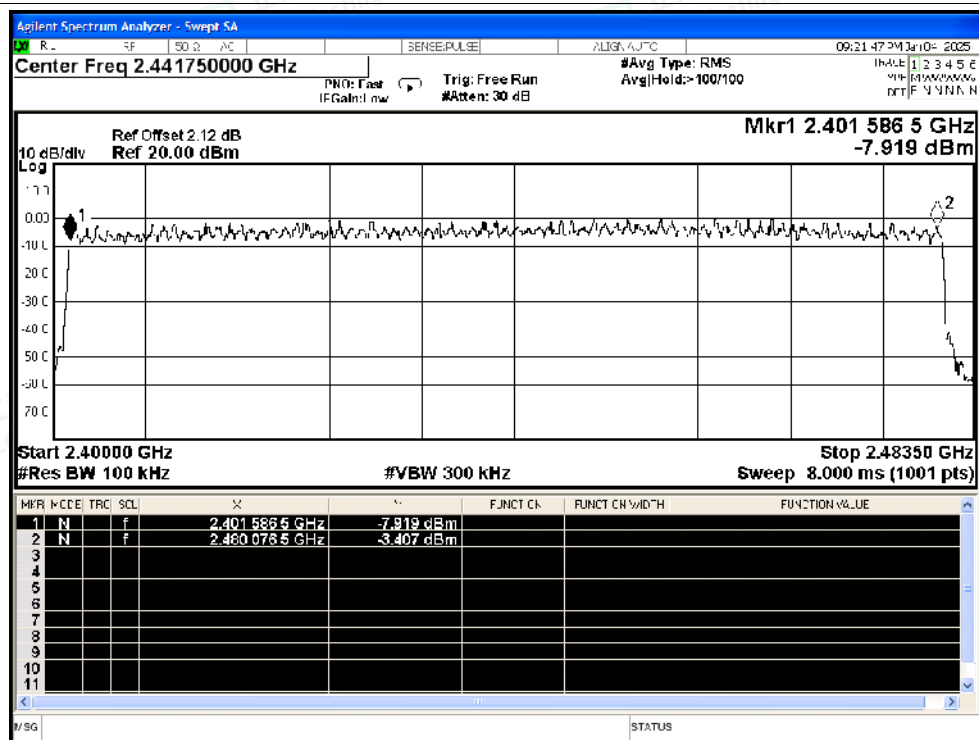


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.91	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.5	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.07	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.18	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.53	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.31	-20	Pass

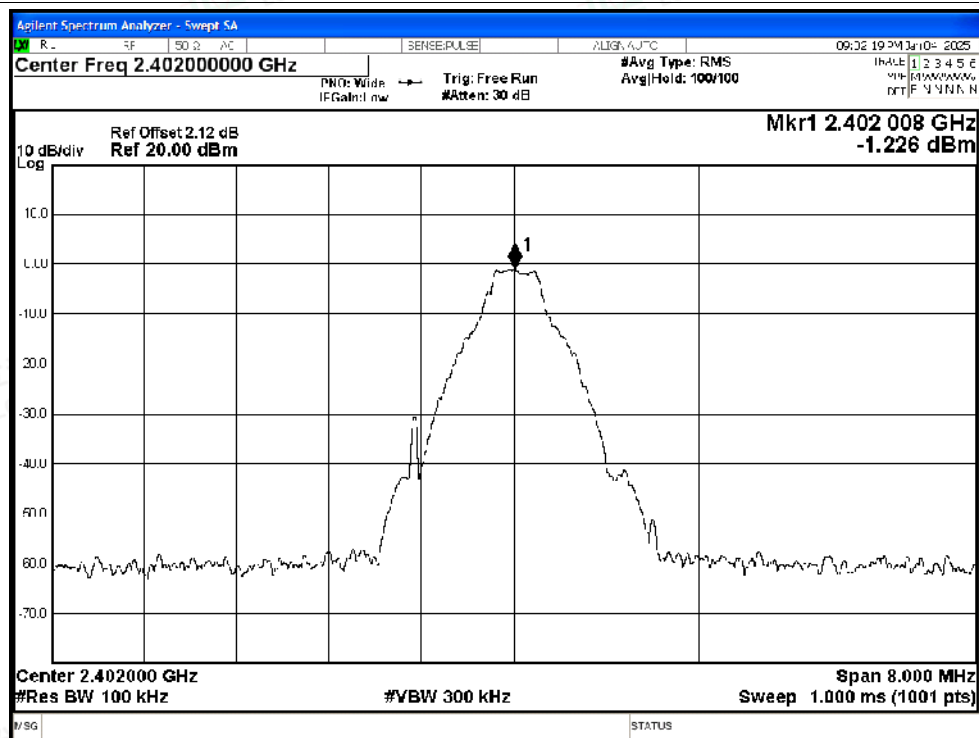


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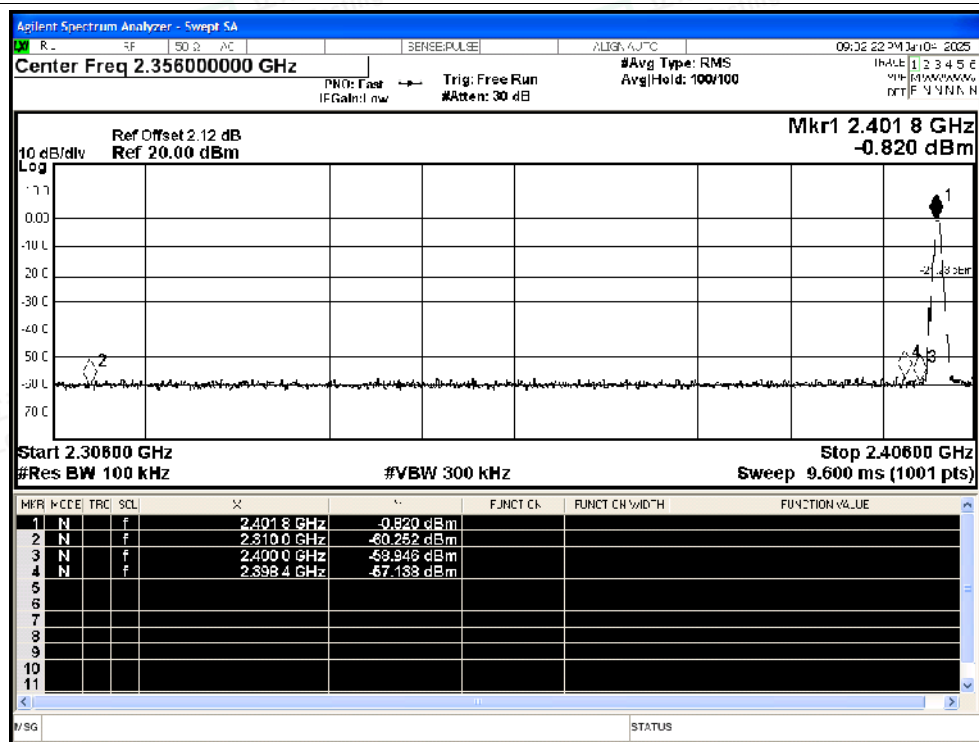


Test Graphs

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



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



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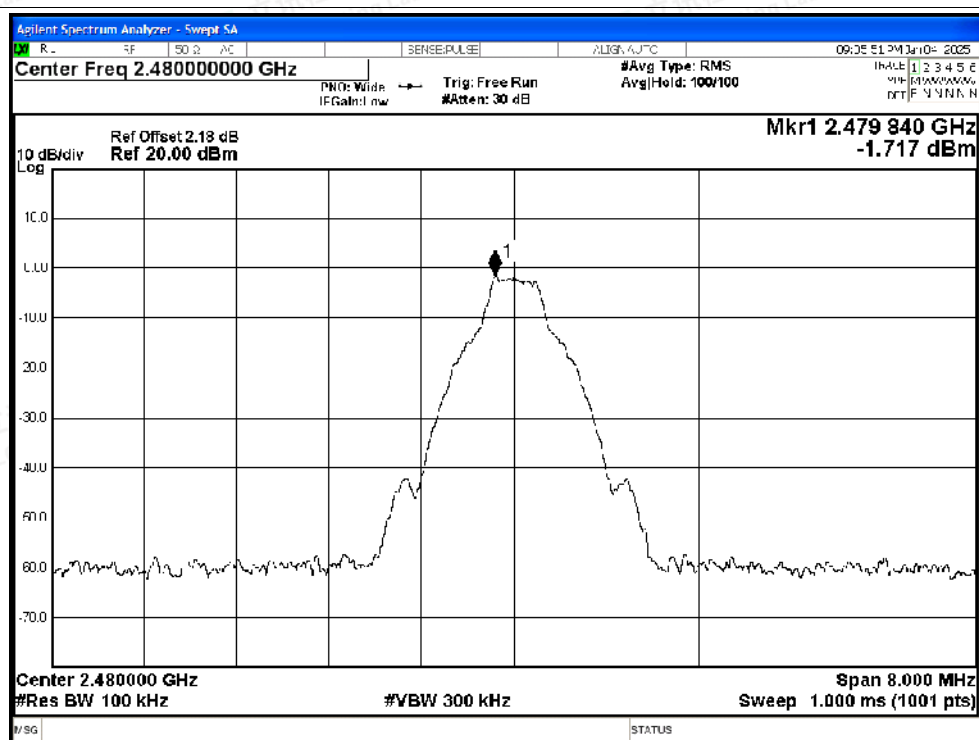
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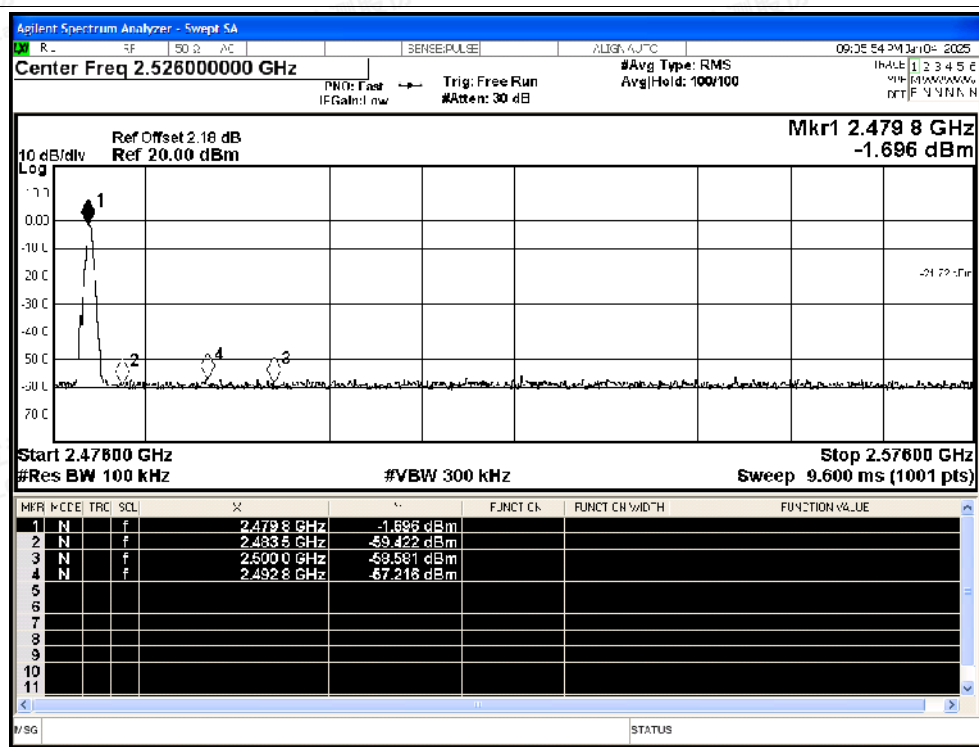
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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

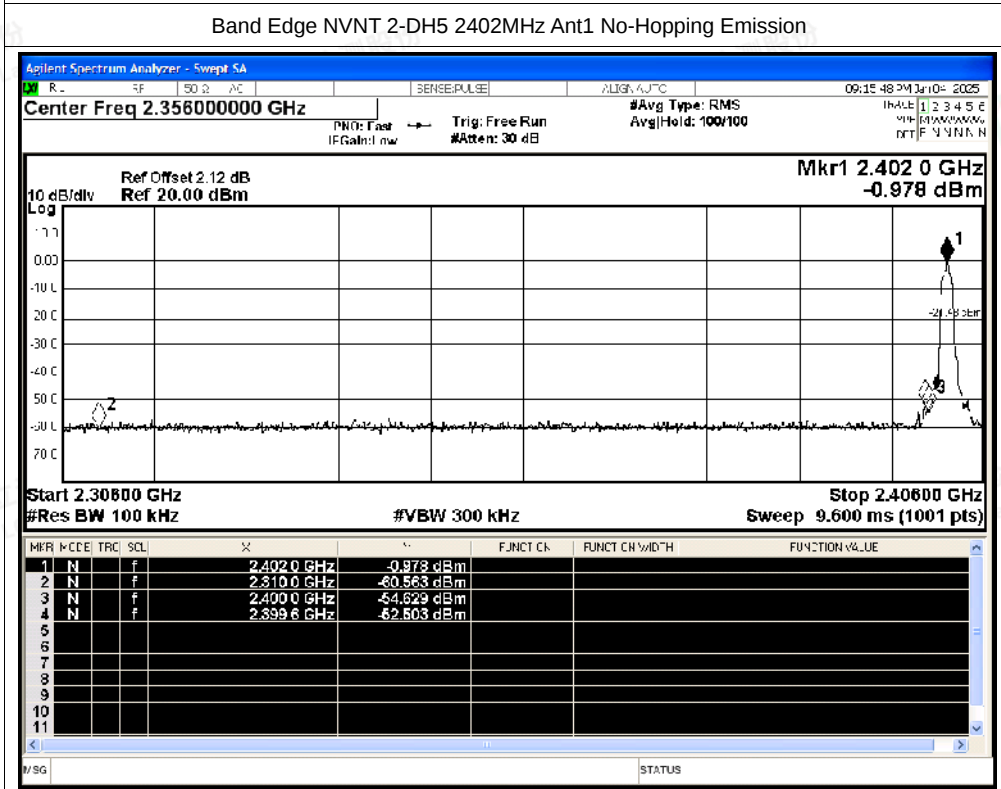
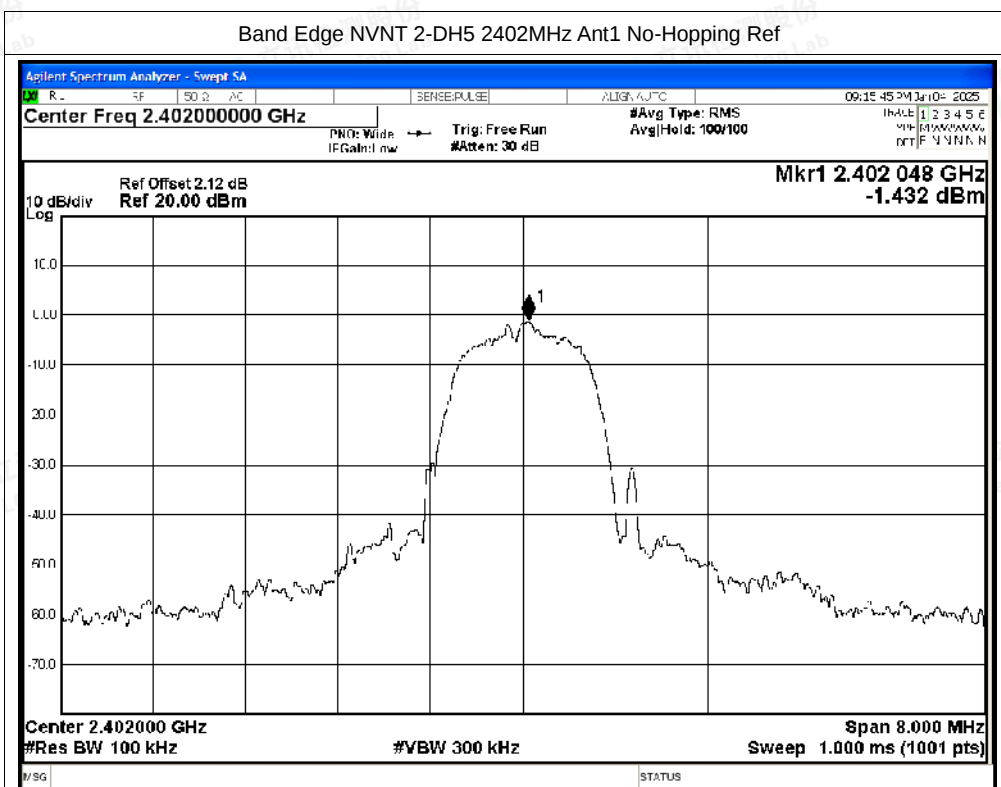


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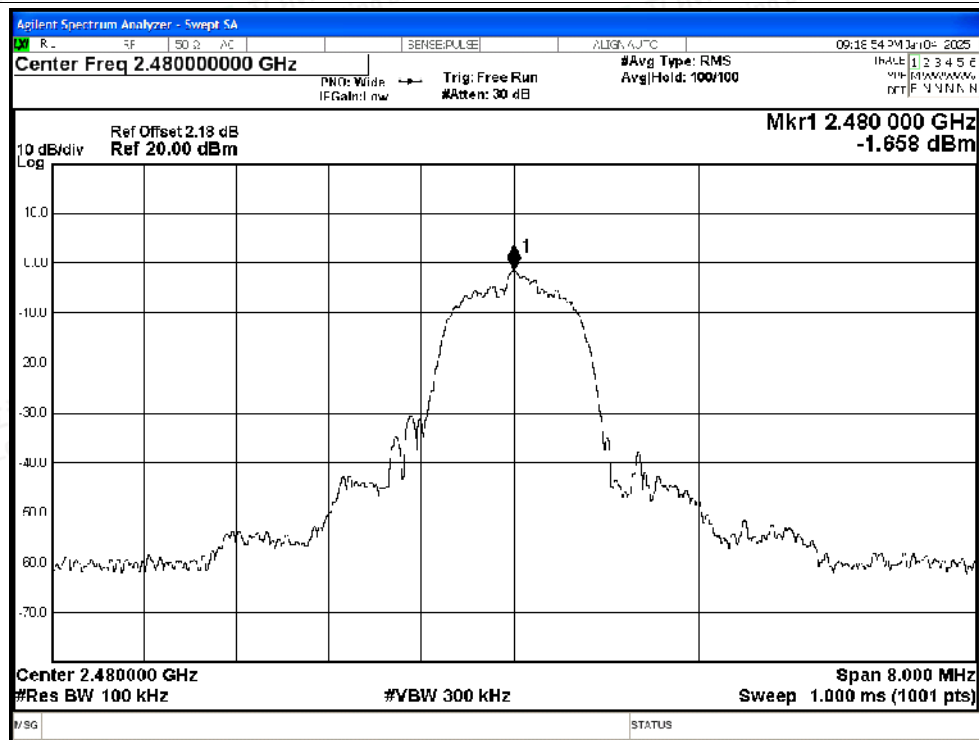
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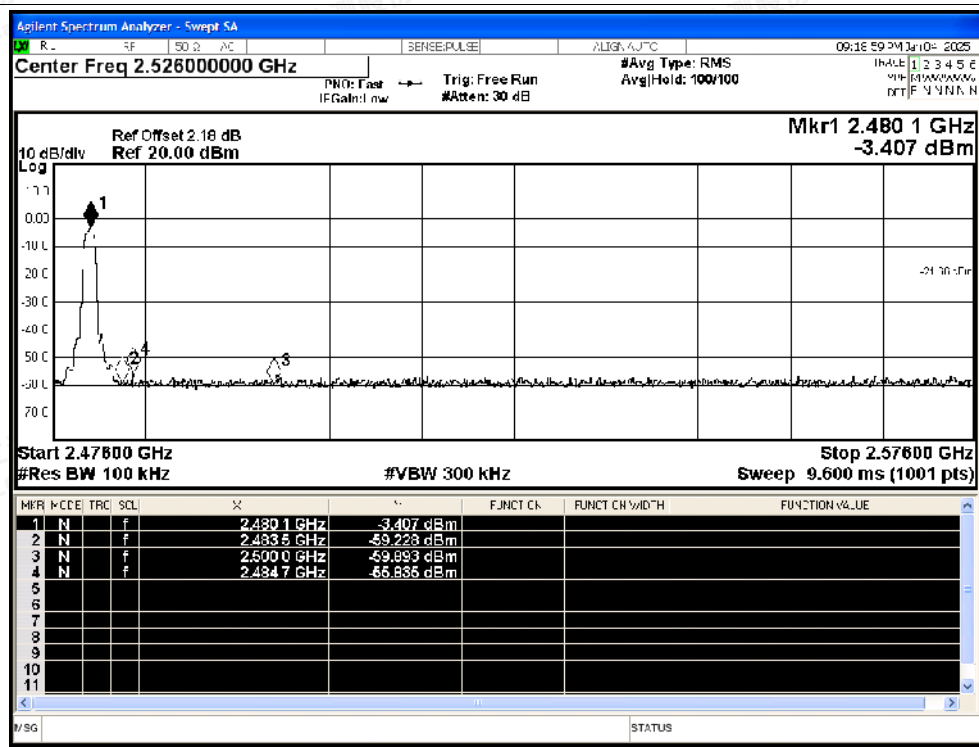
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

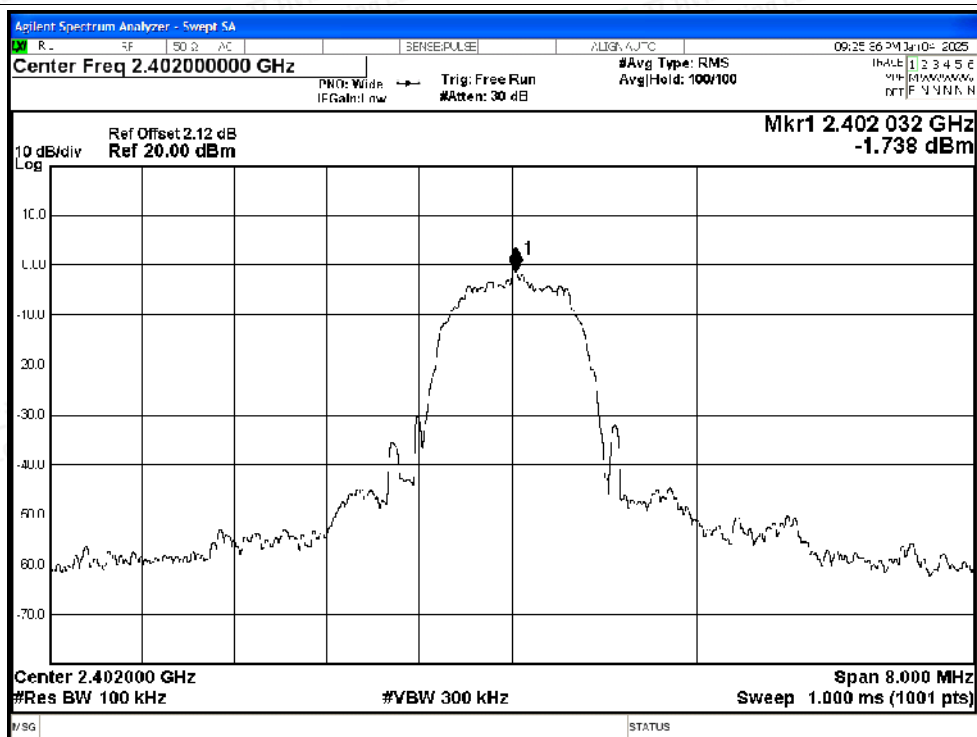


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

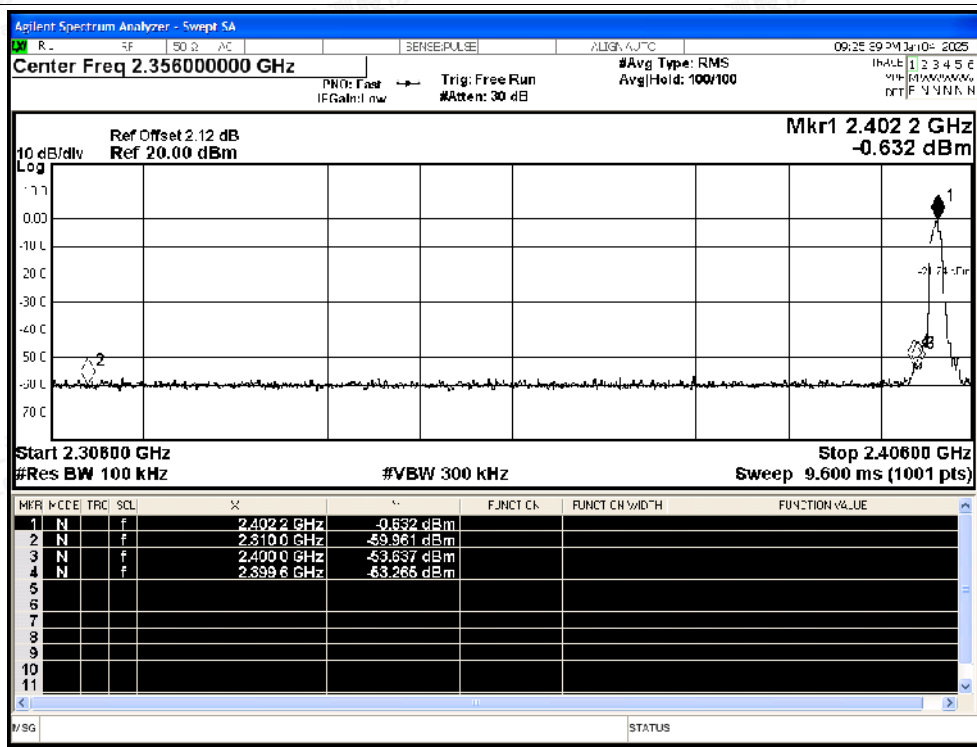




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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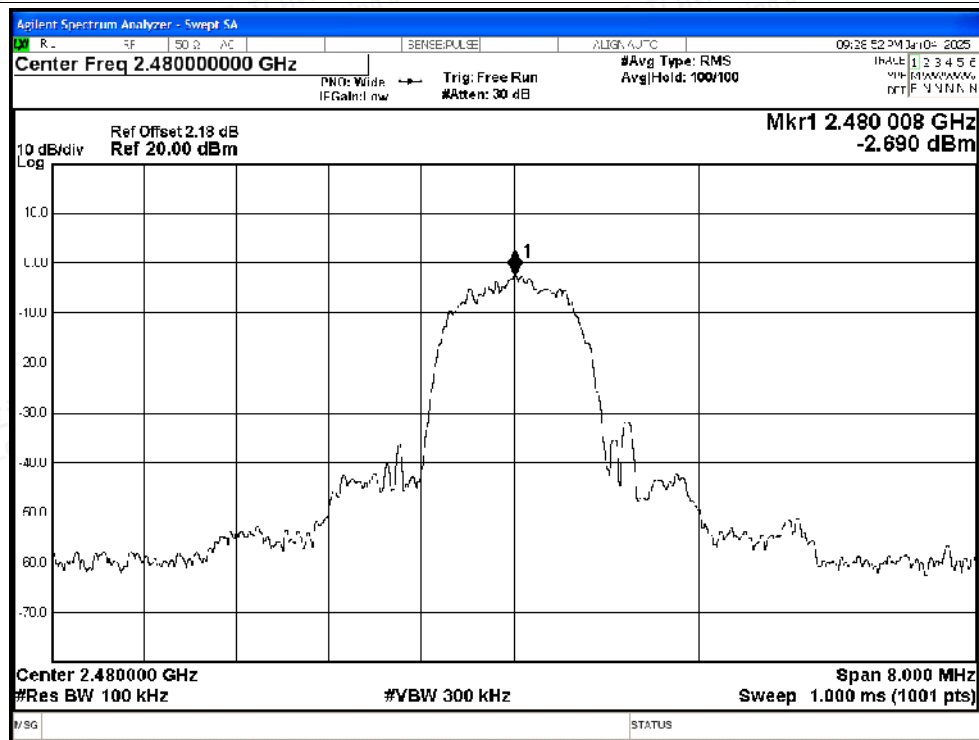
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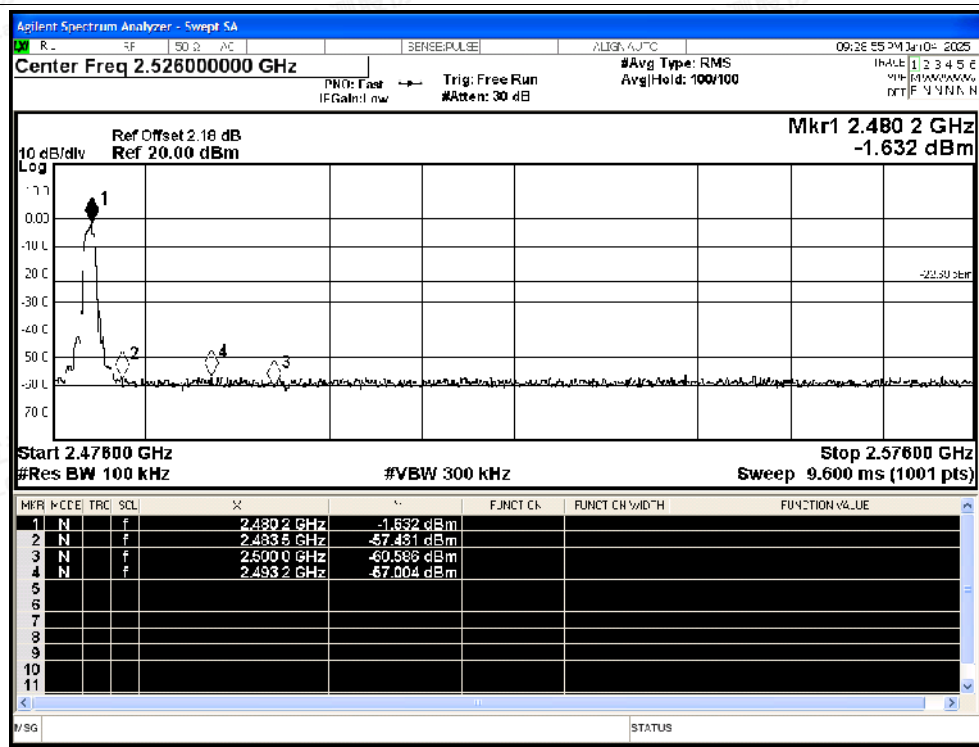
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



**(Hopping)**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.12	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.1	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-51.21	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.43	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.69	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.8	-20	Pass

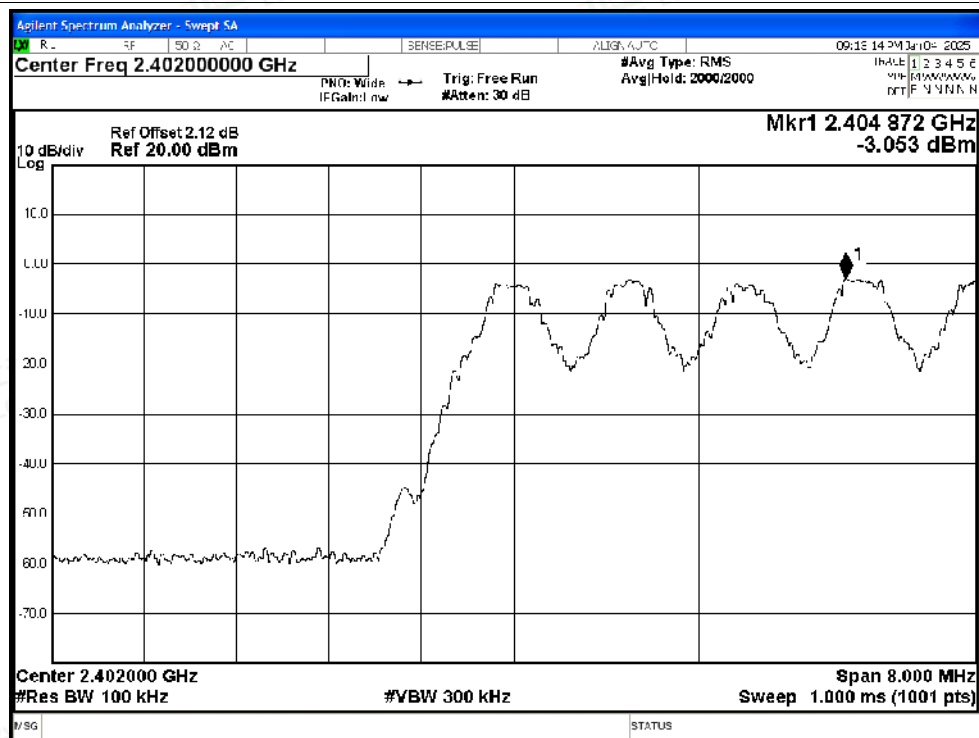


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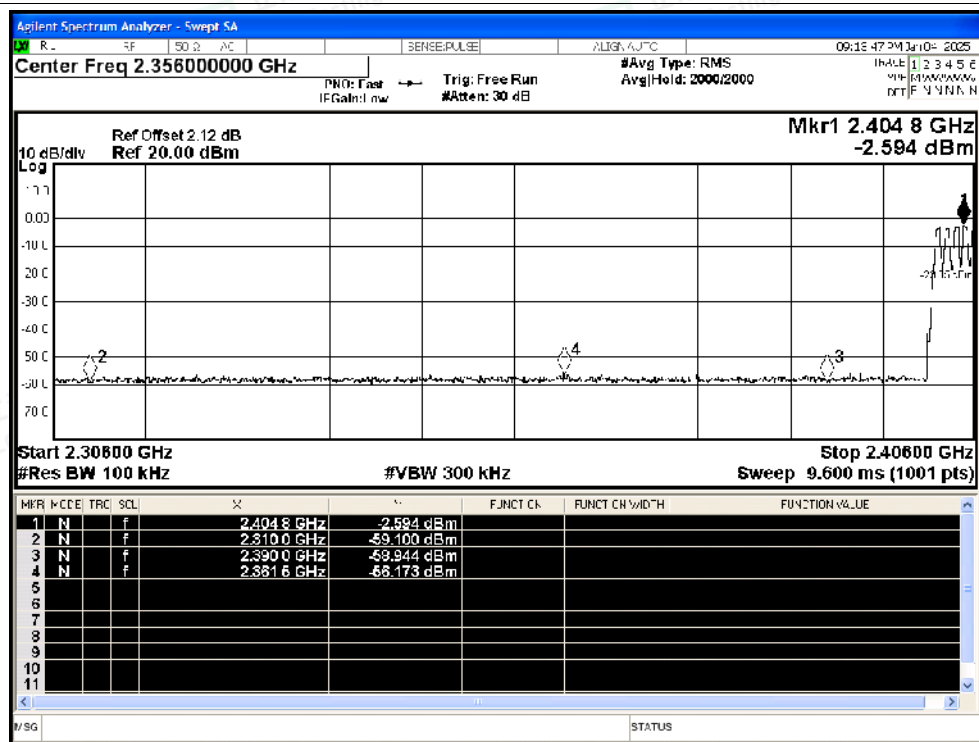


Test Graphs

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



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

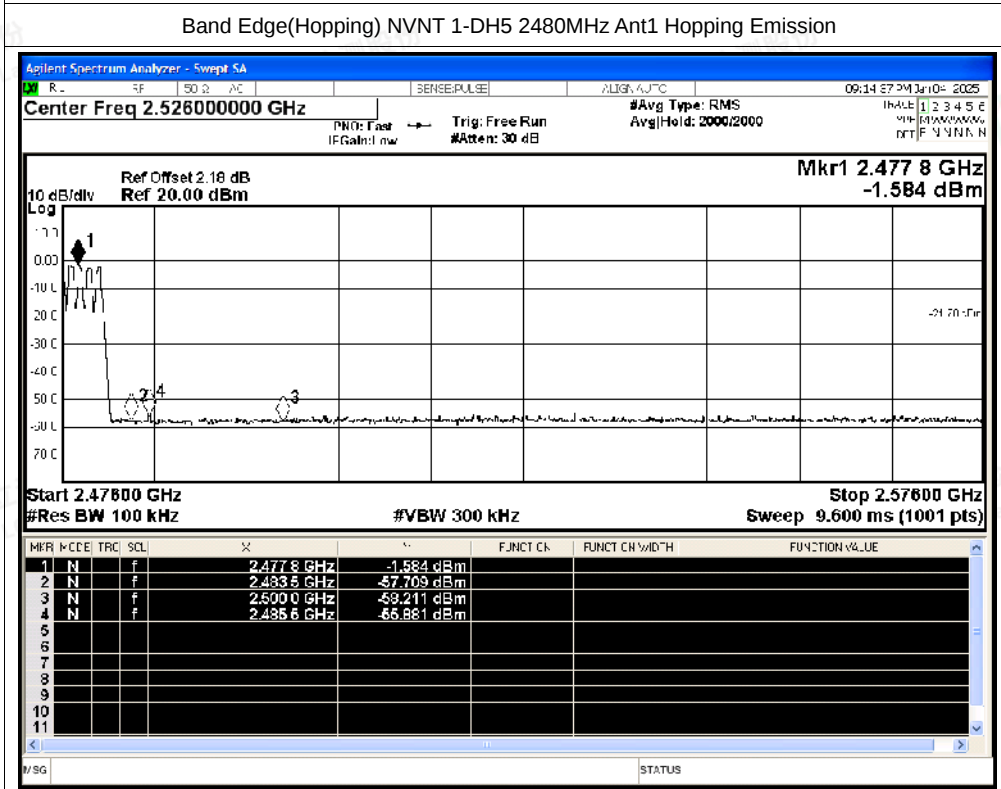
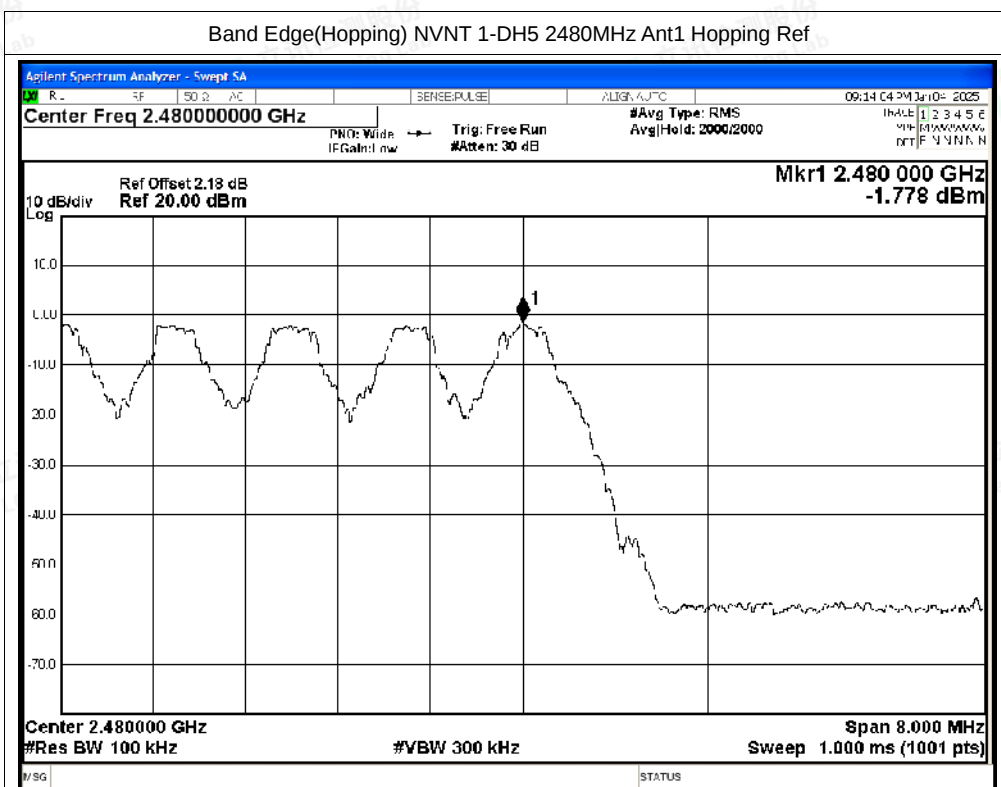


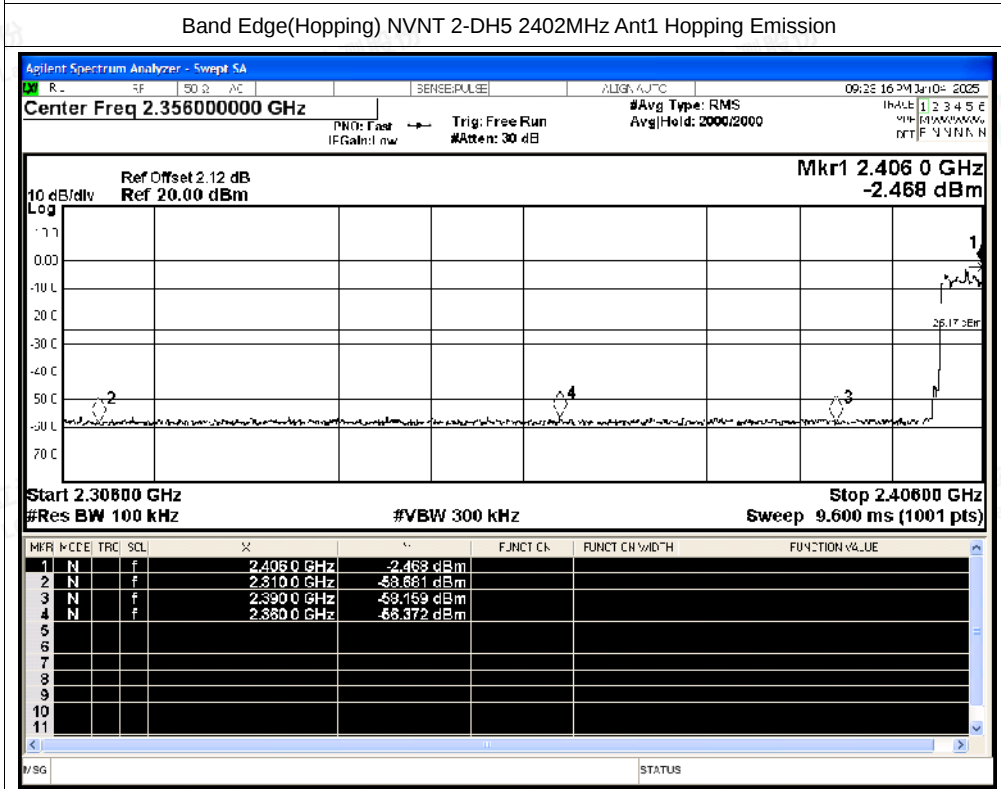
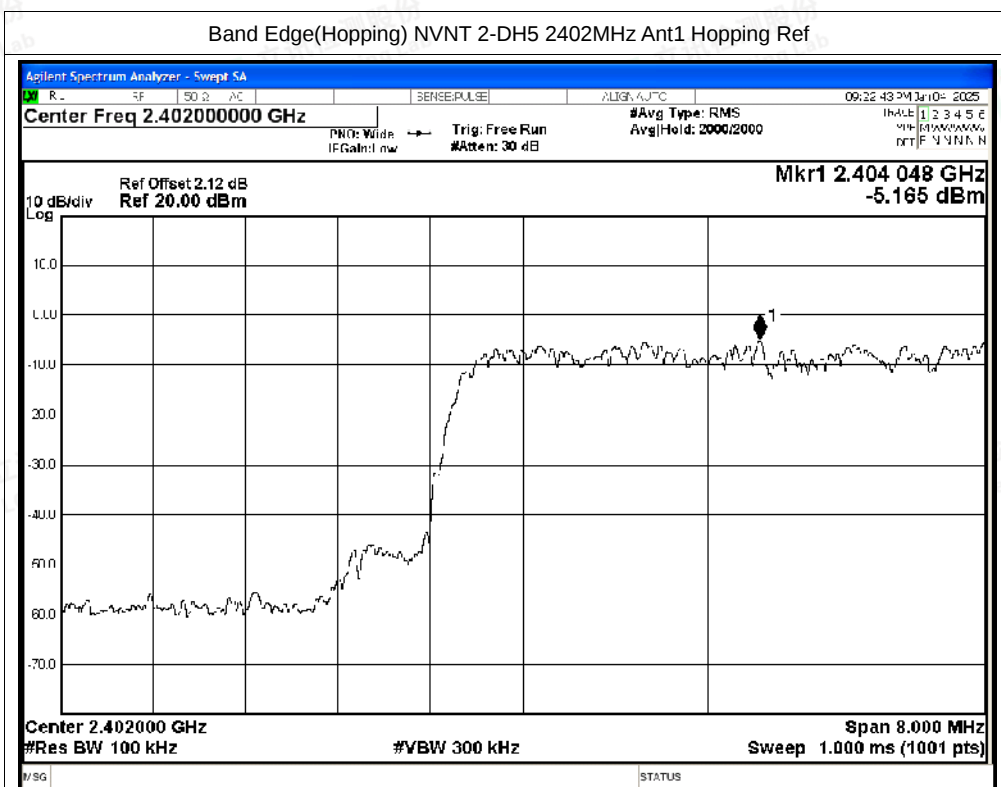
Shenzhen LCS Compliance Testing Laboratory Ltd.

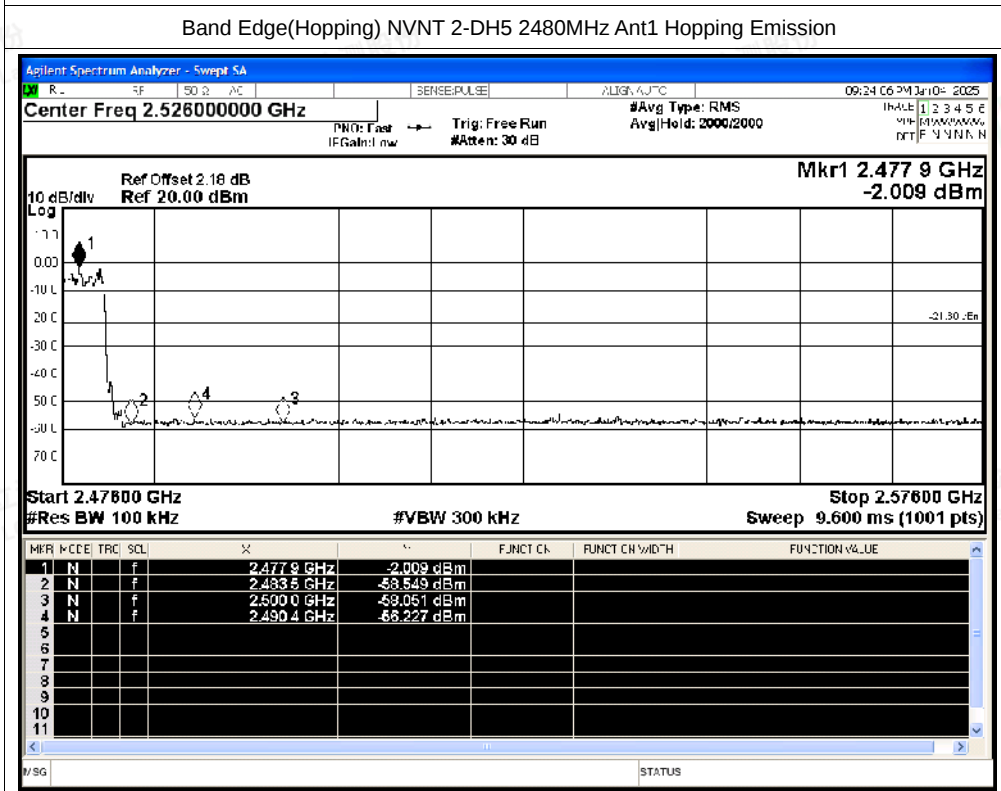
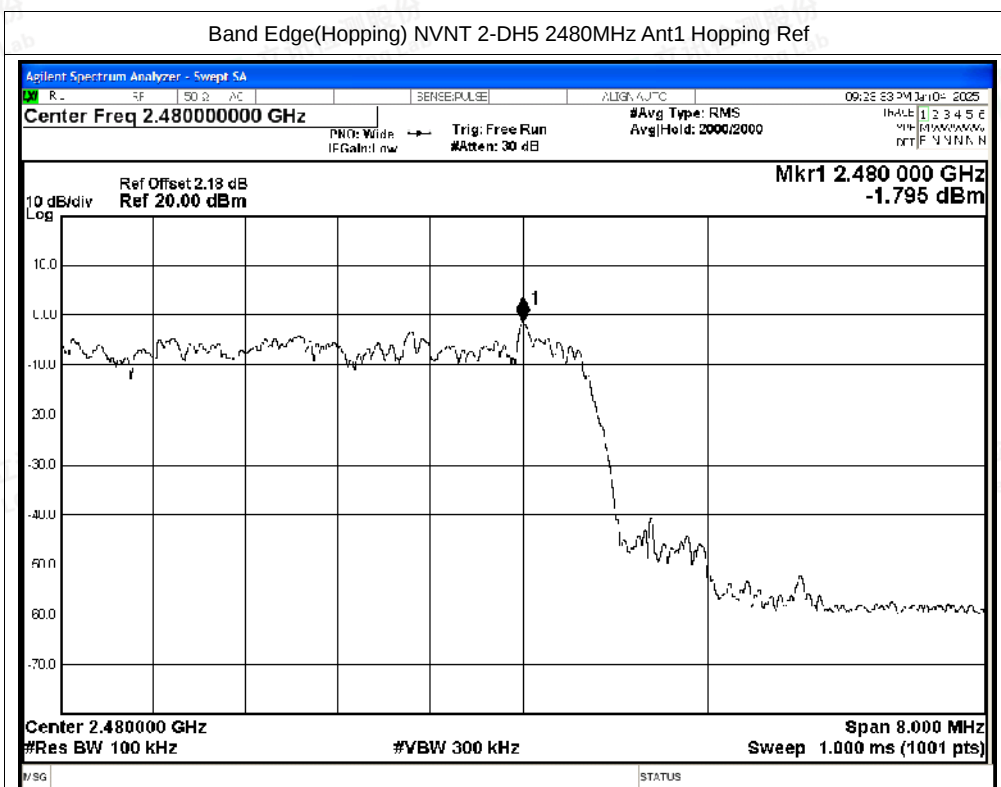
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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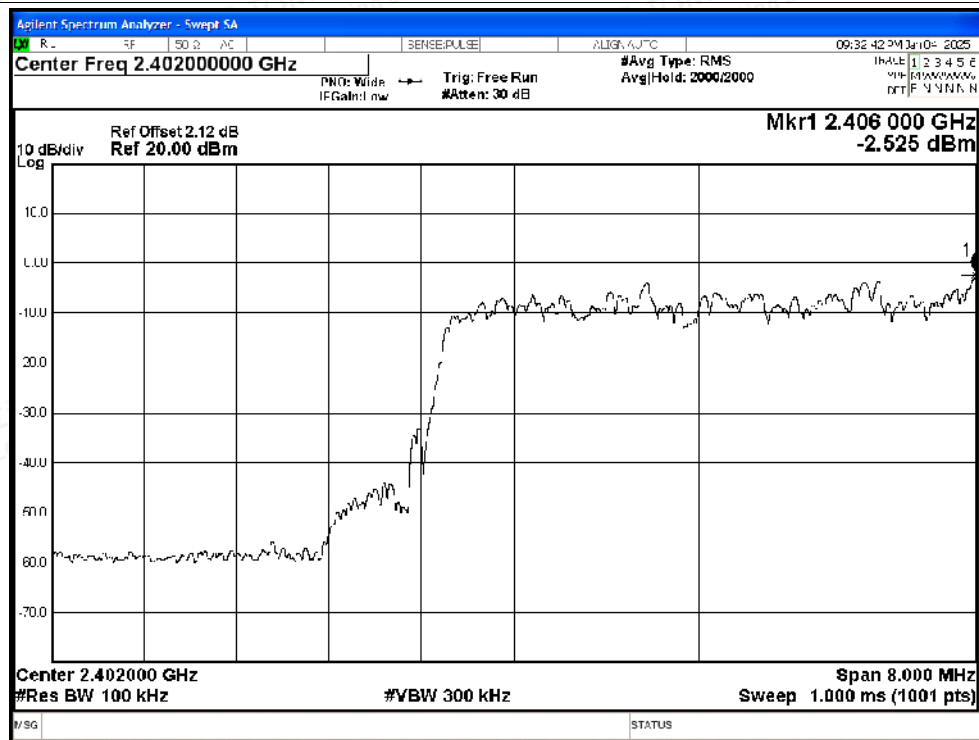
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

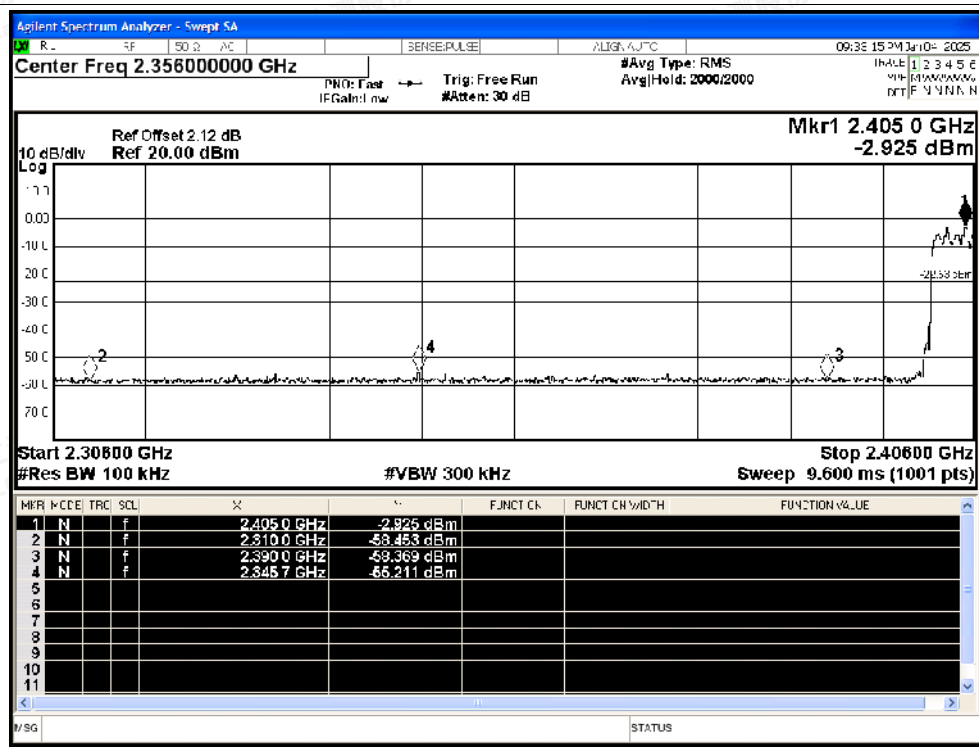
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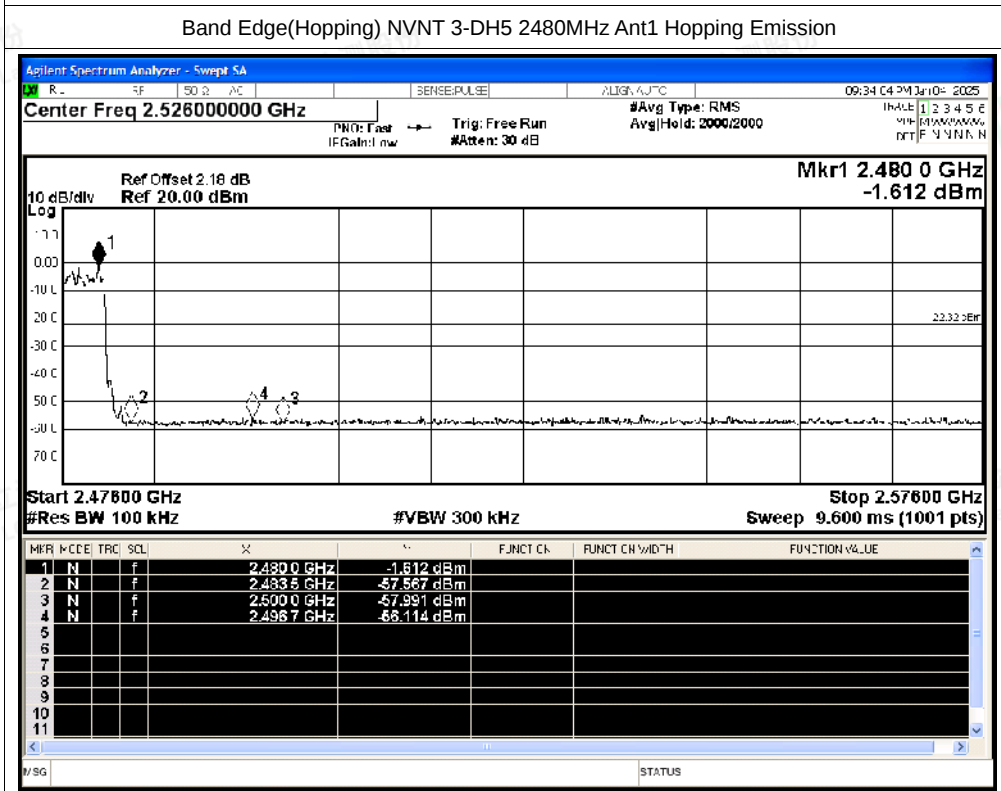
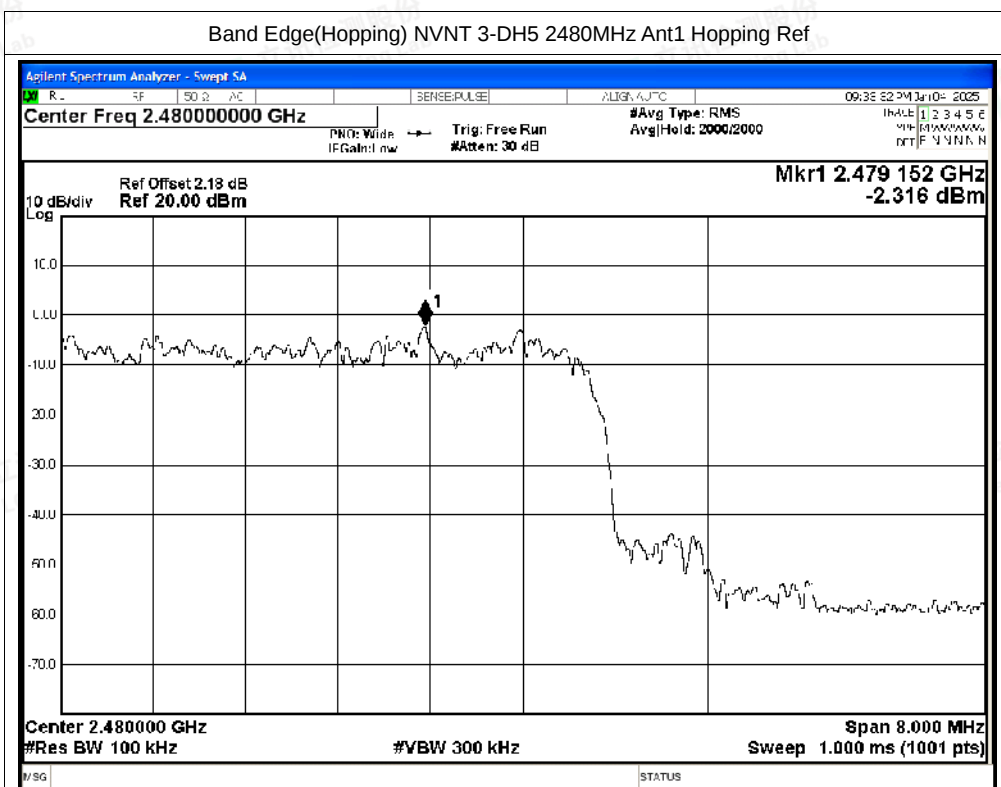


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



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







A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.03	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.7	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.47	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.7	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.14	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.24	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.92	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.69	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.65	-20	Pass

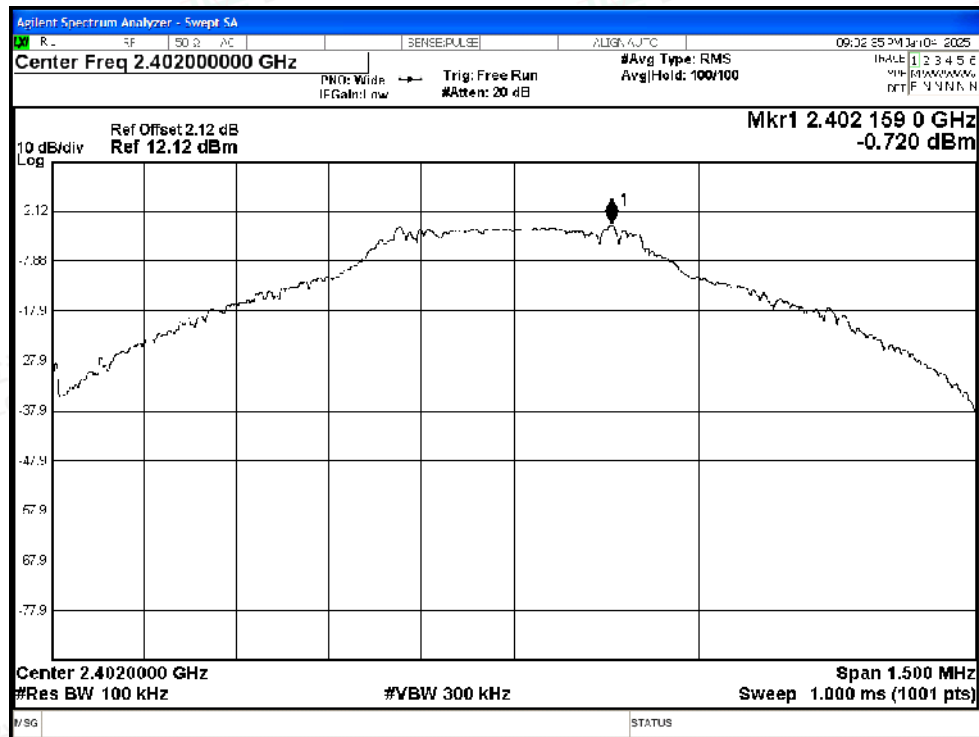


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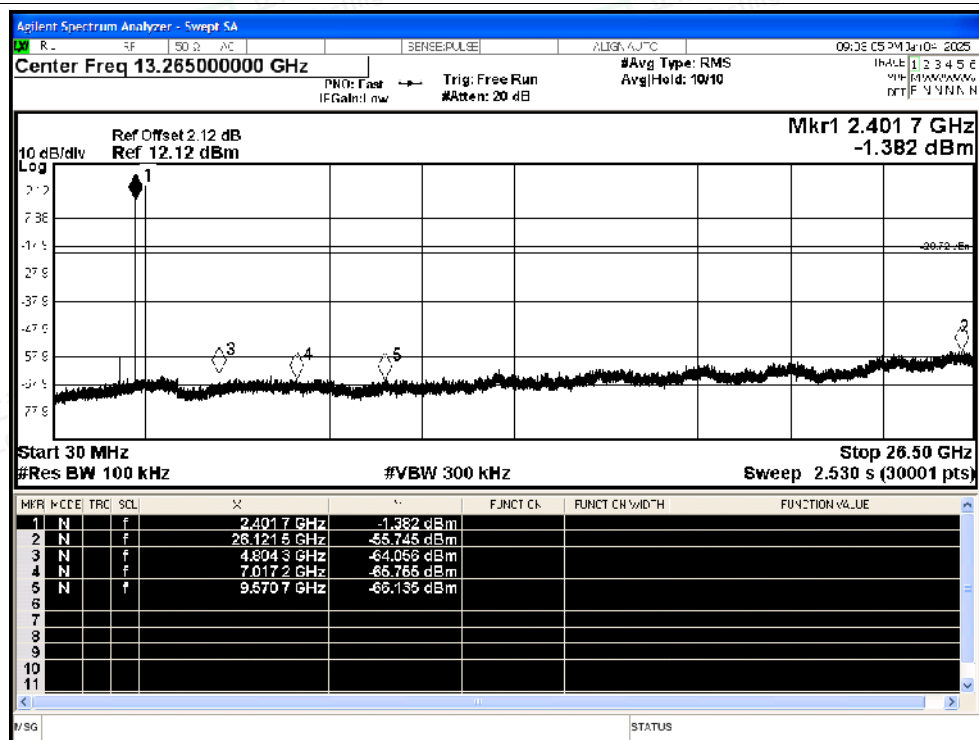


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

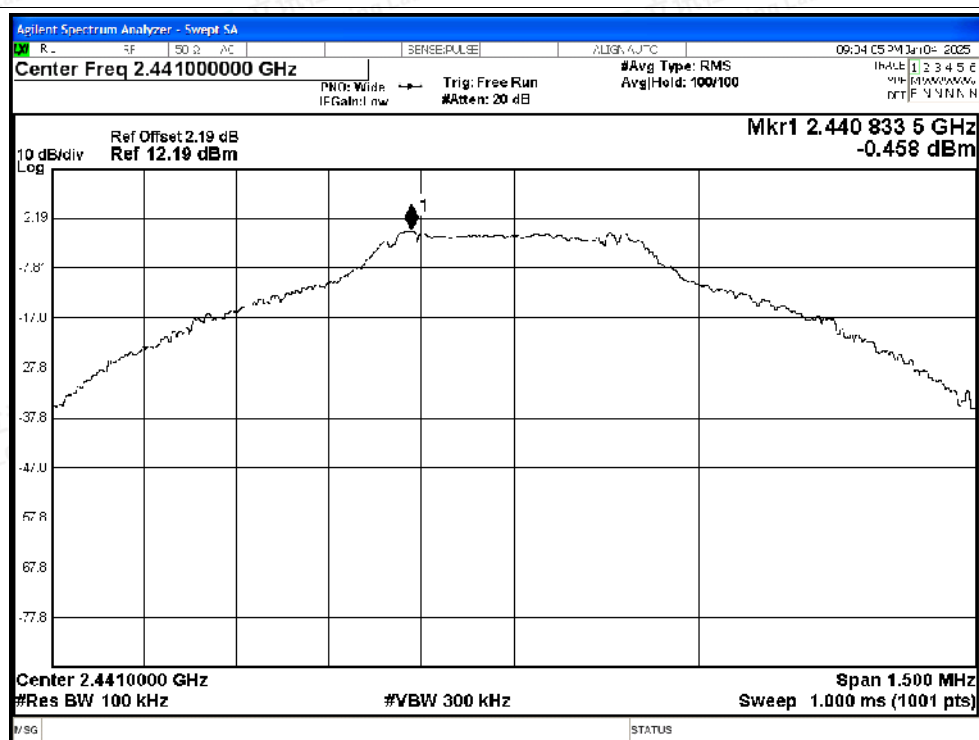
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

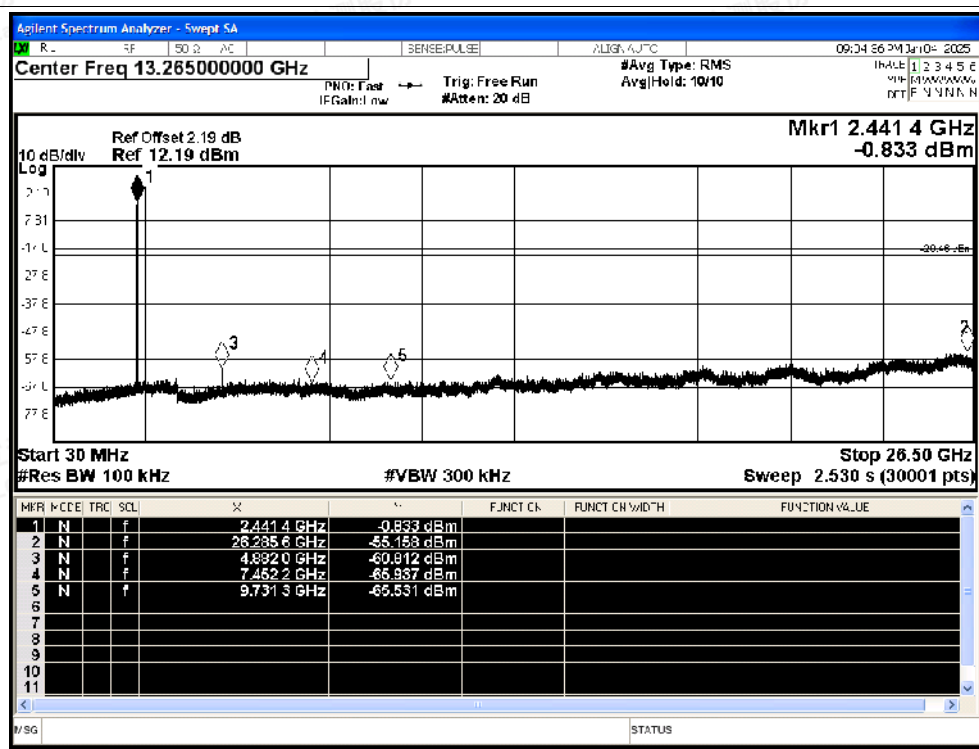
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

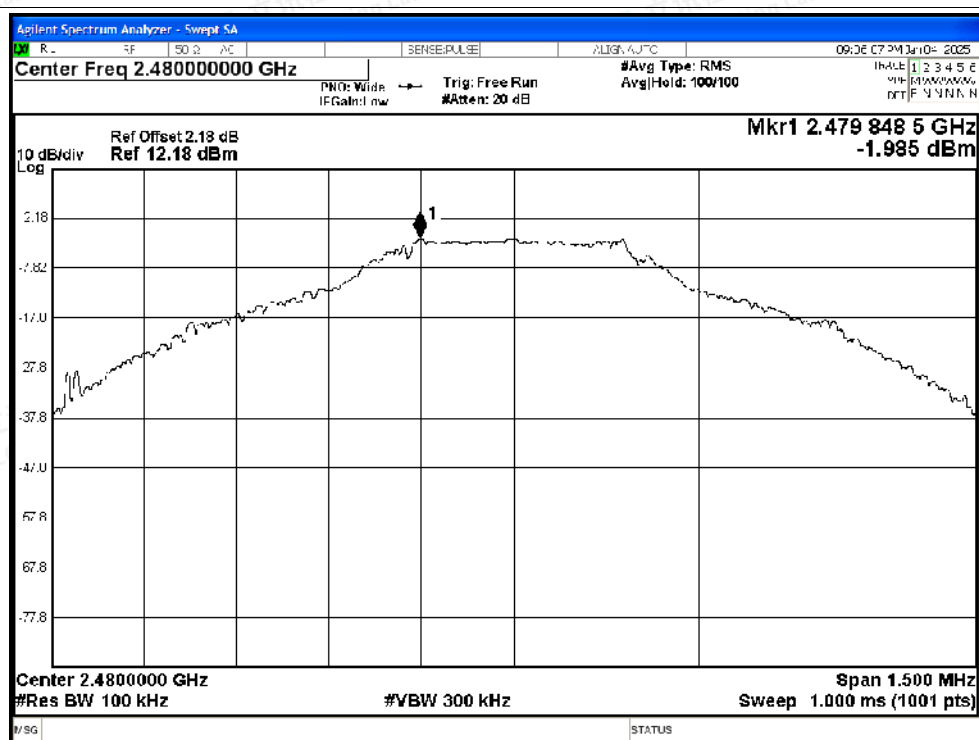
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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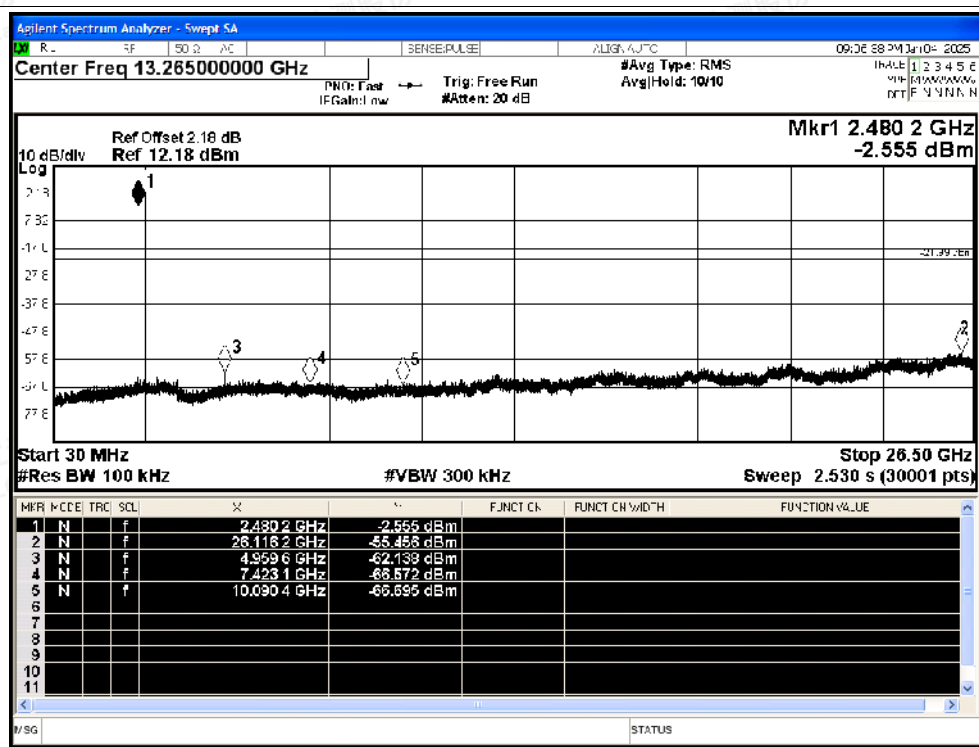
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

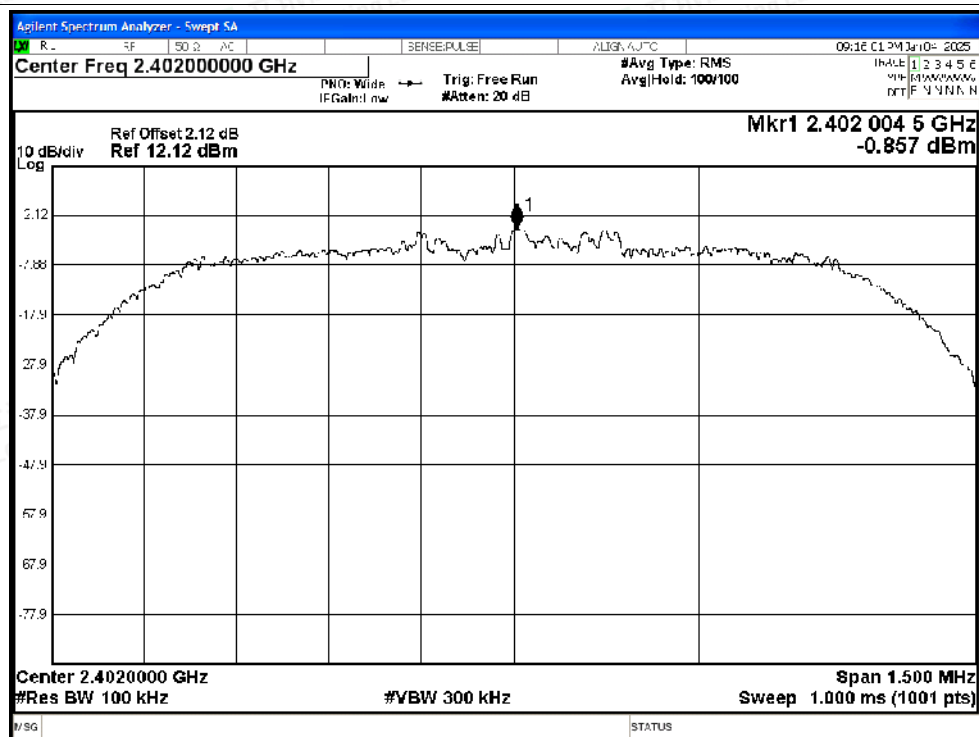
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

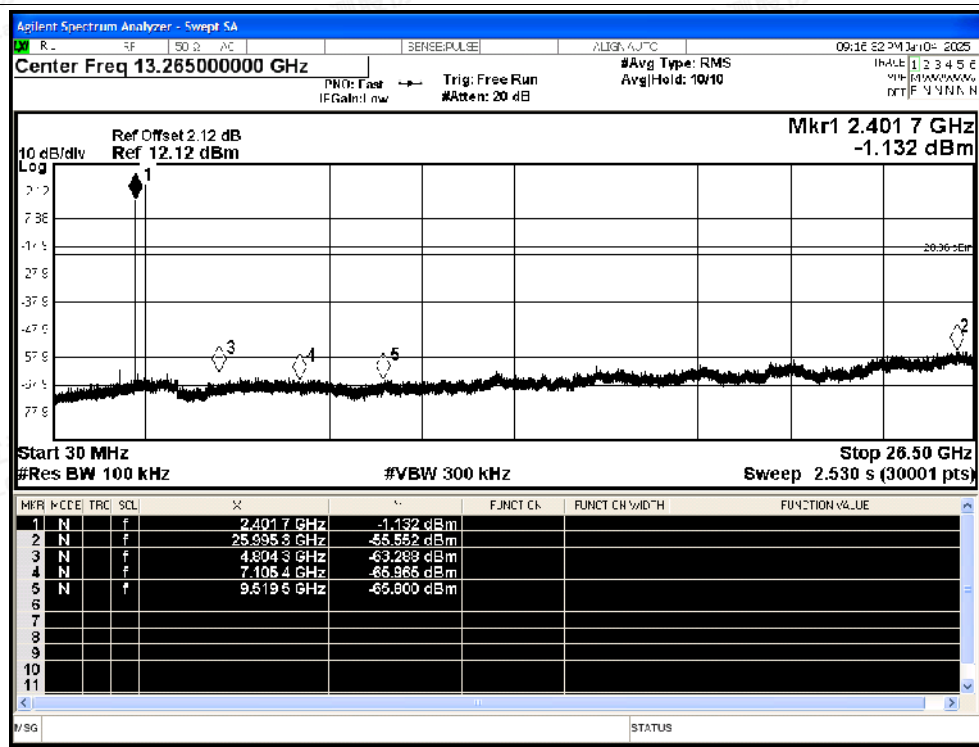
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

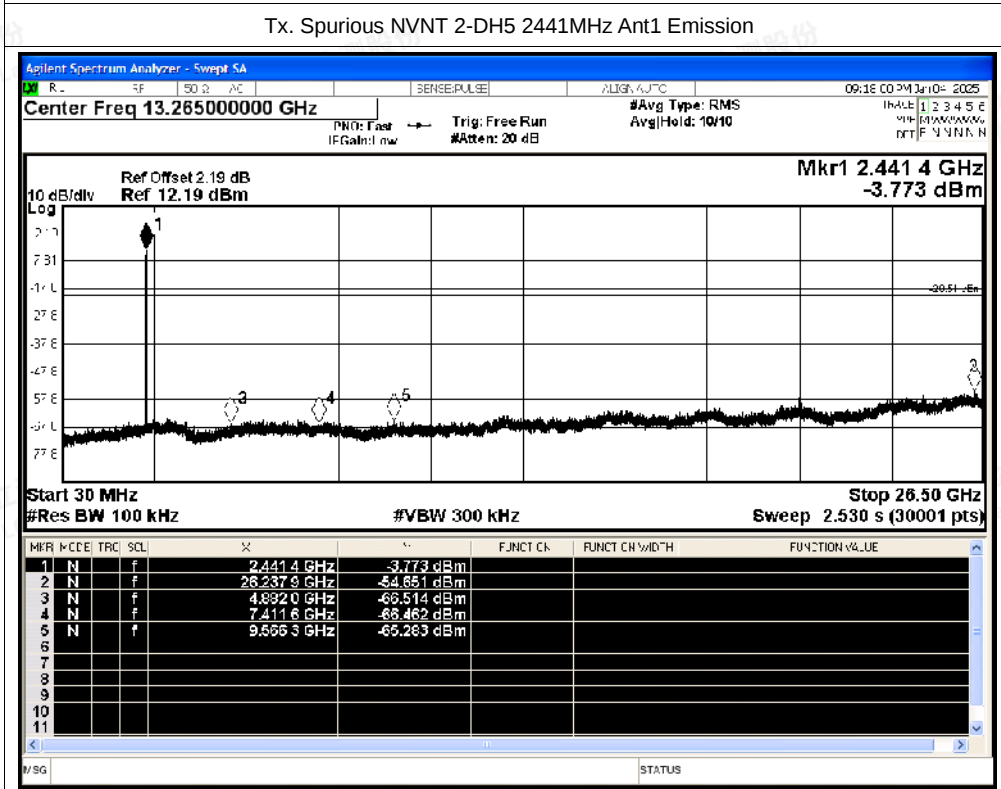
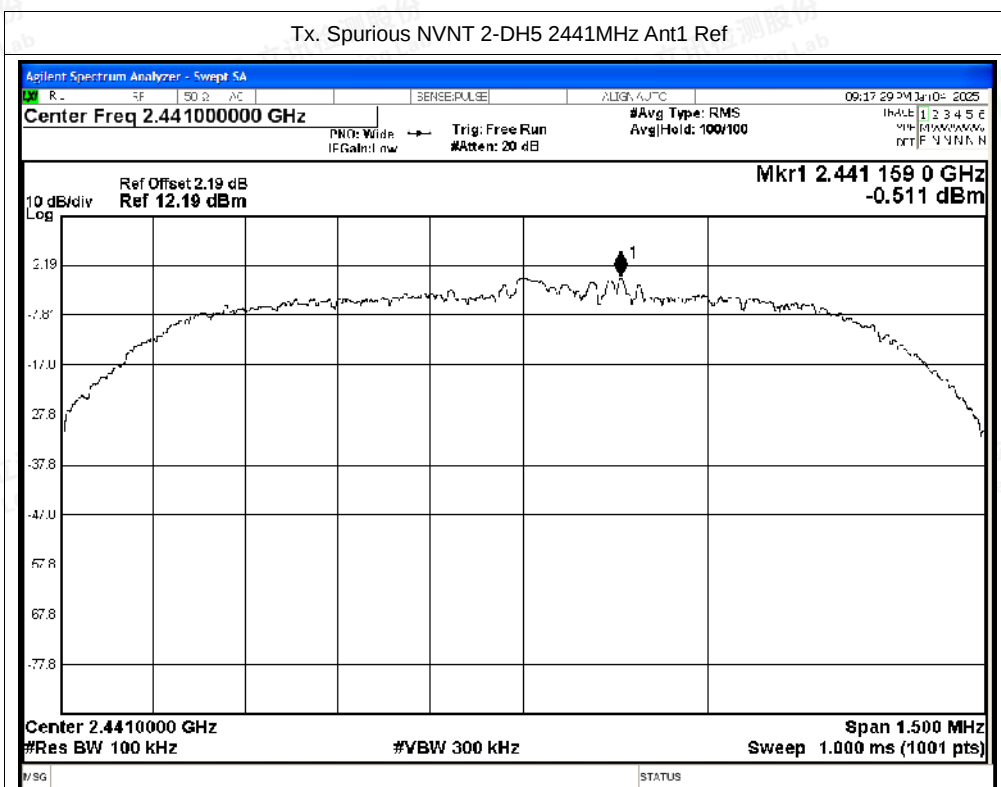


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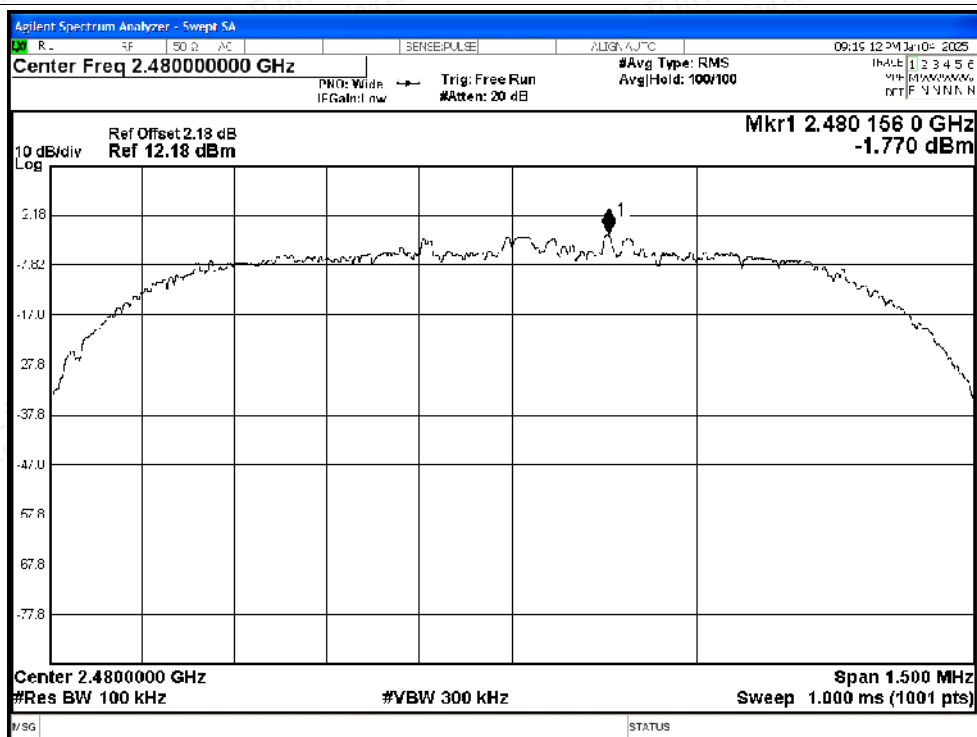
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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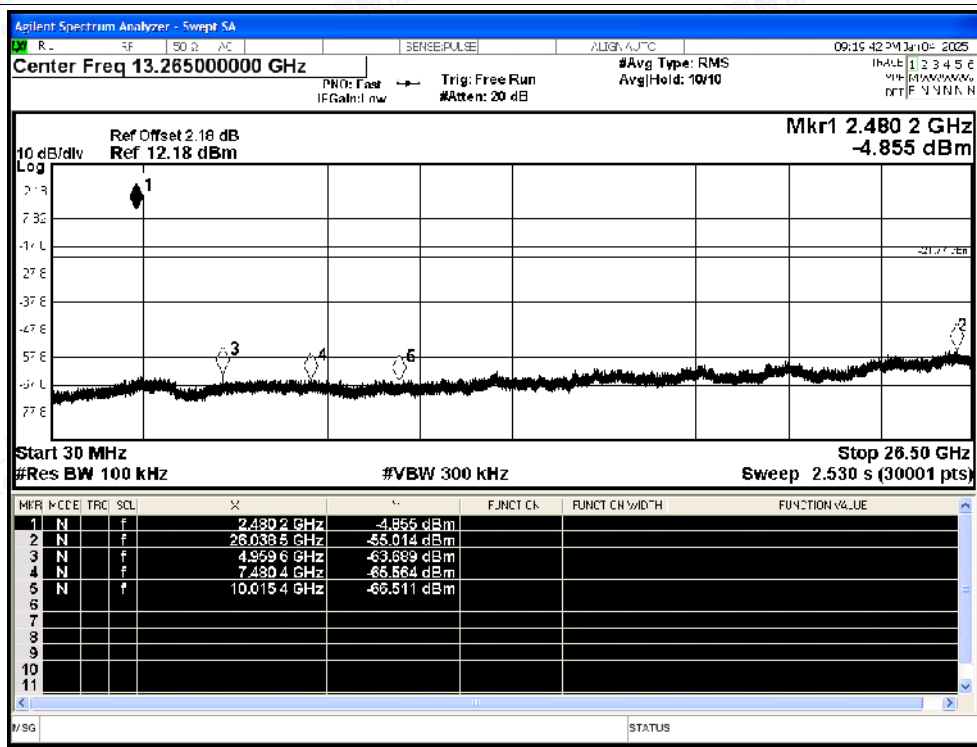




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

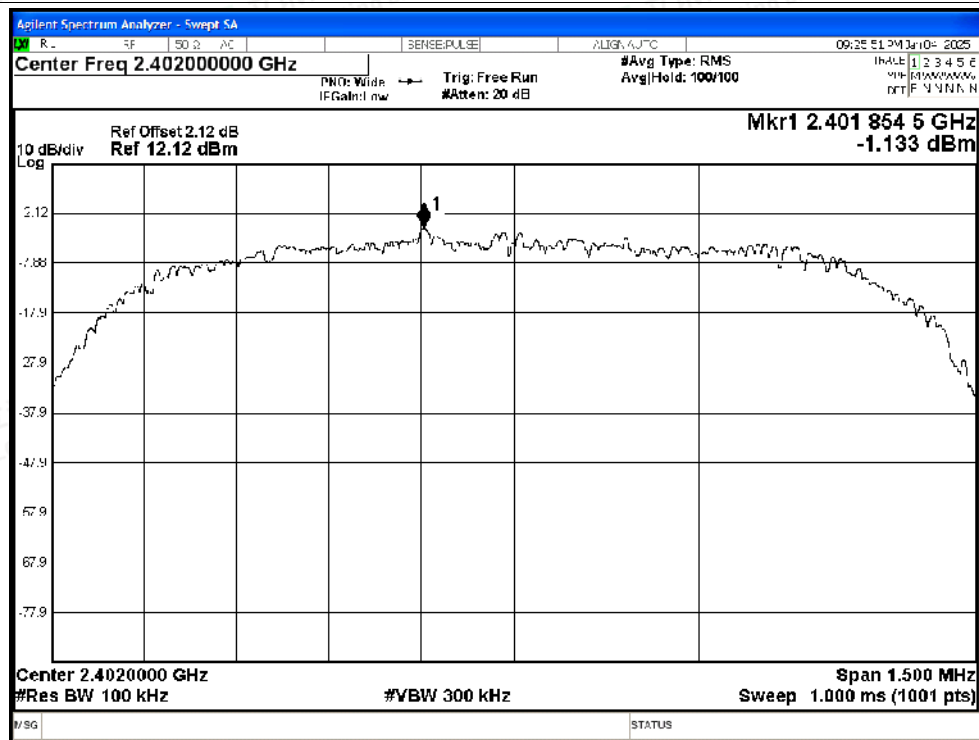
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

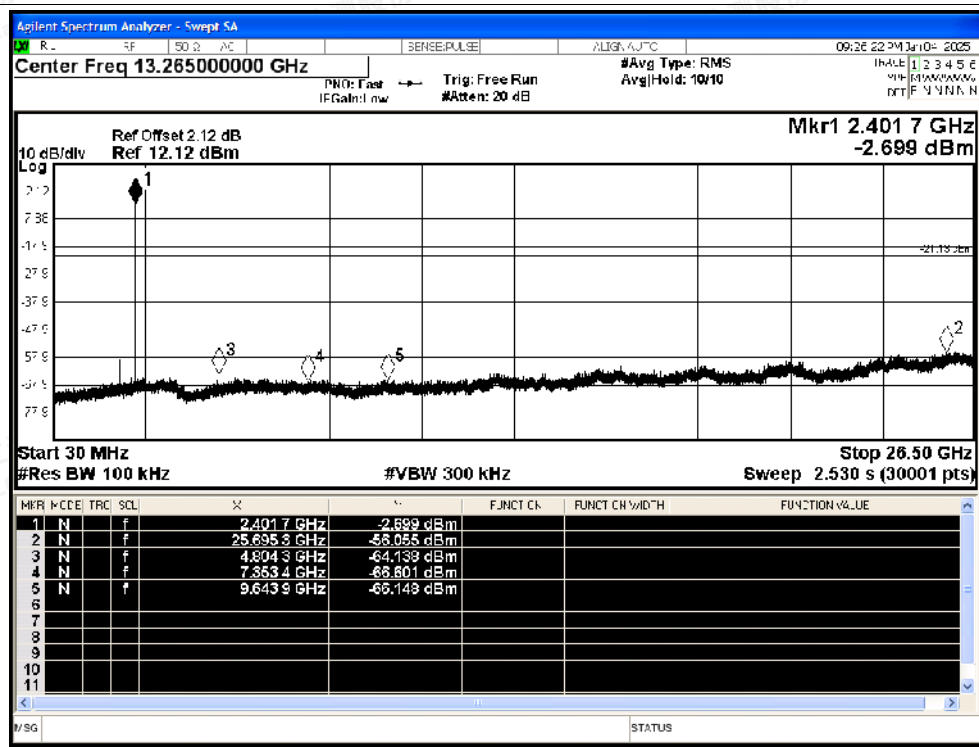
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

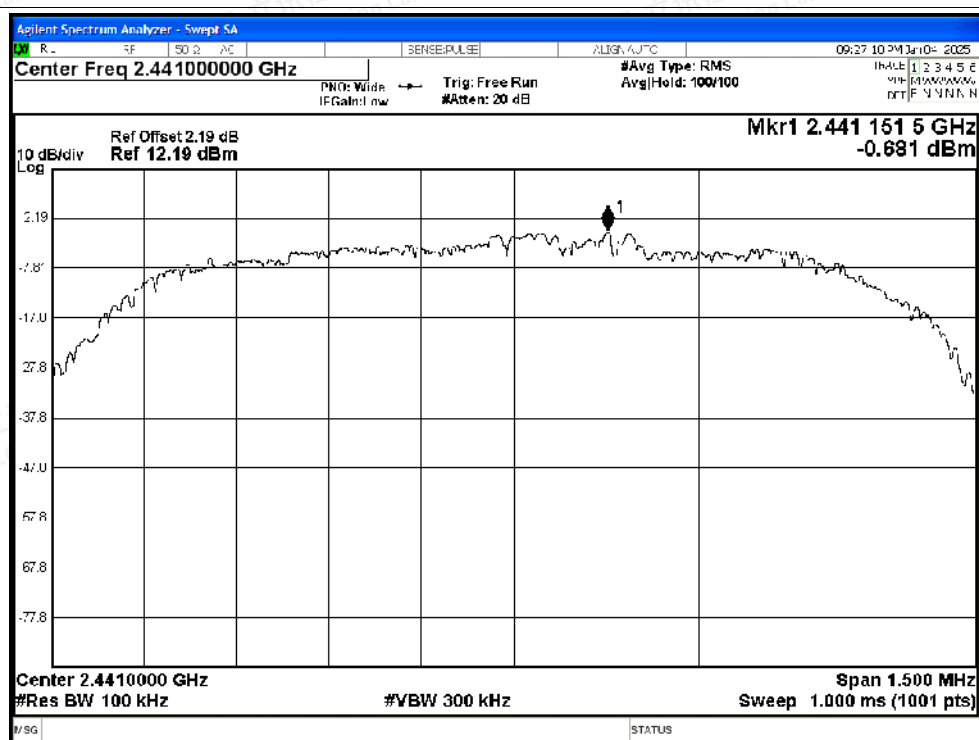


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

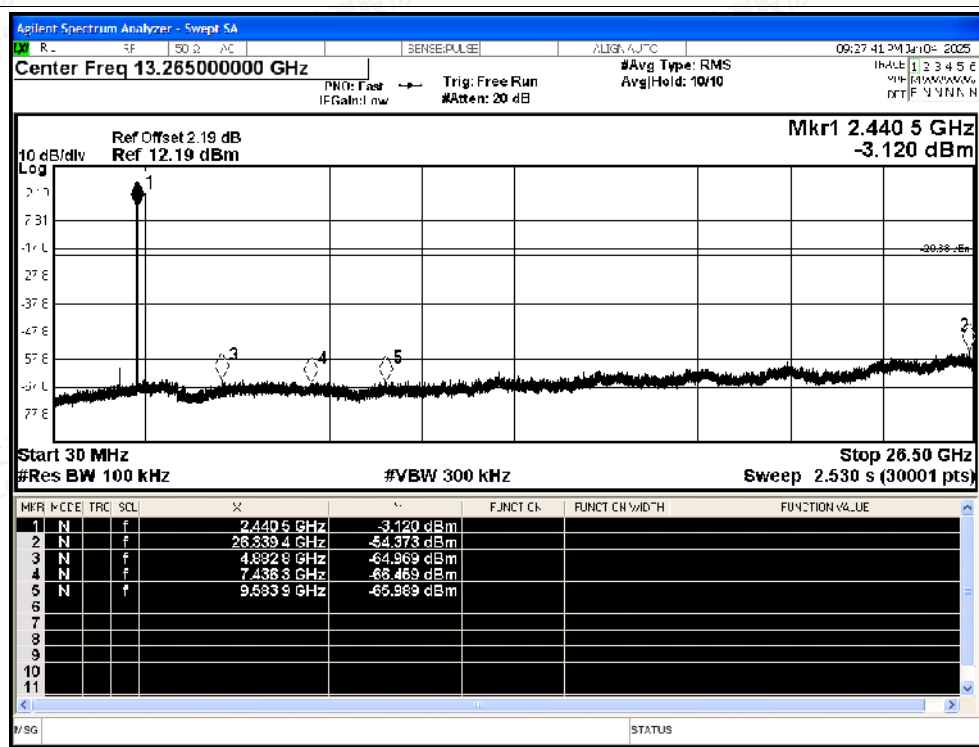




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

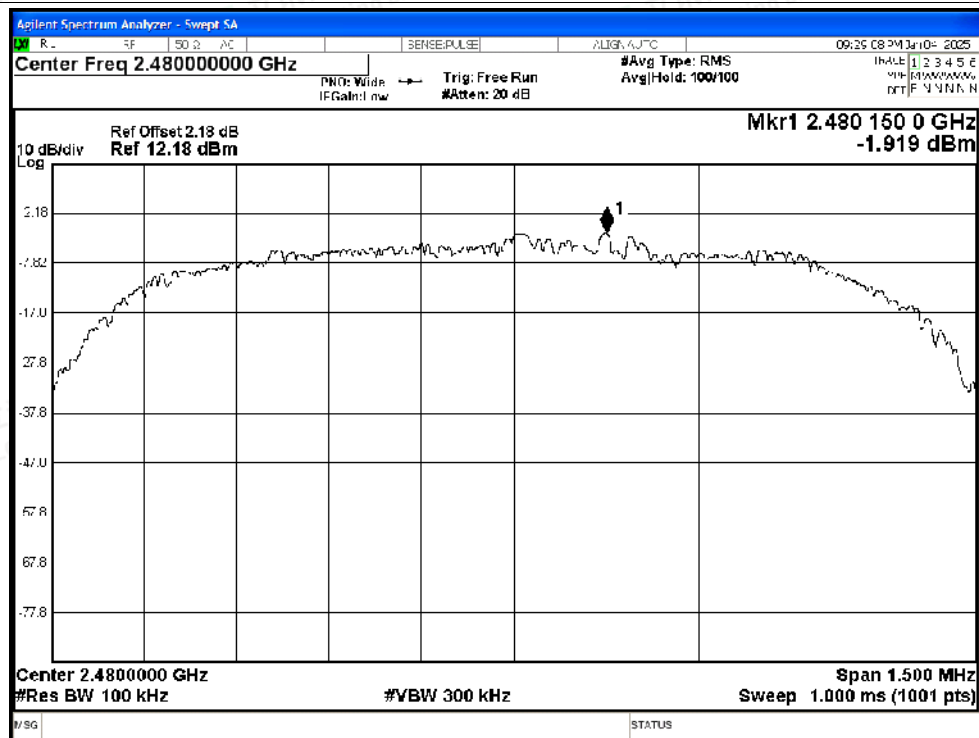
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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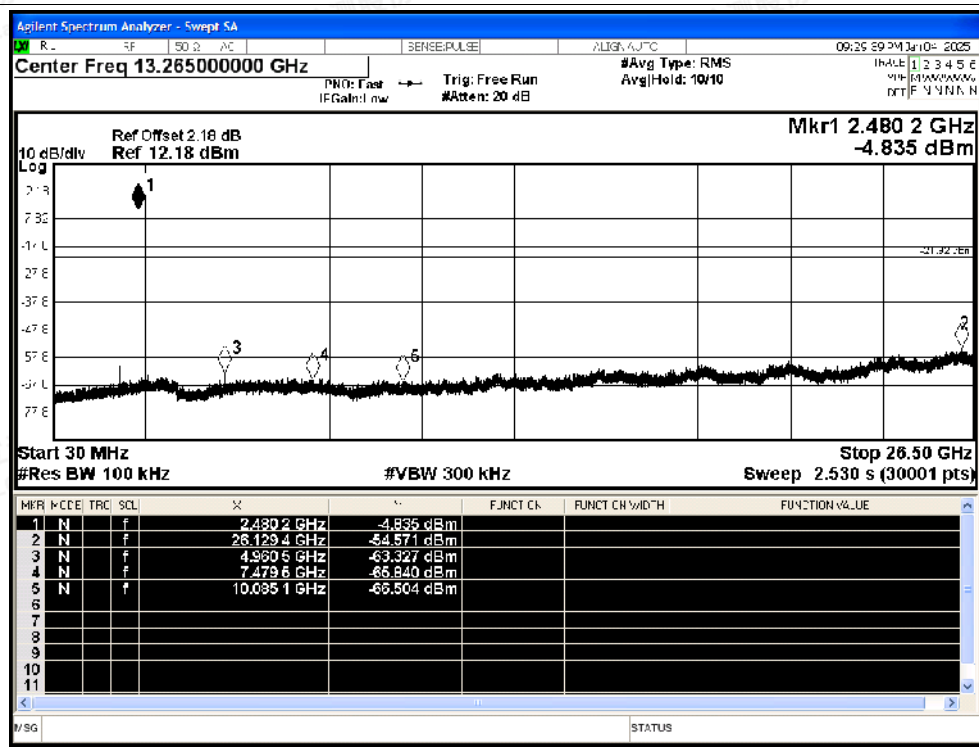
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.33	1.12	0.34
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35

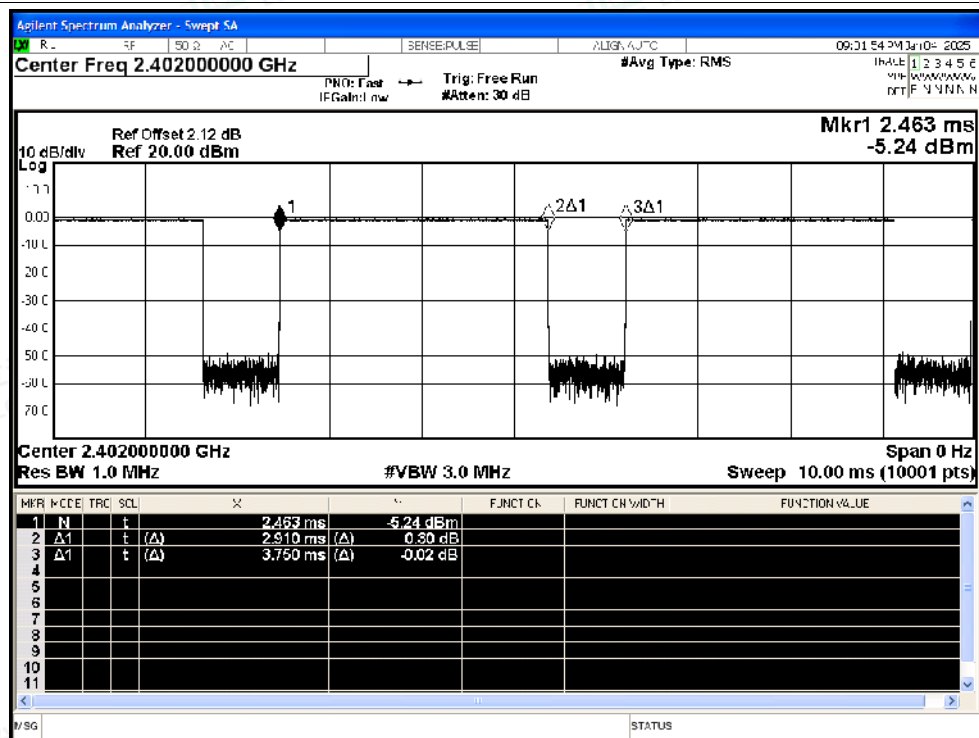


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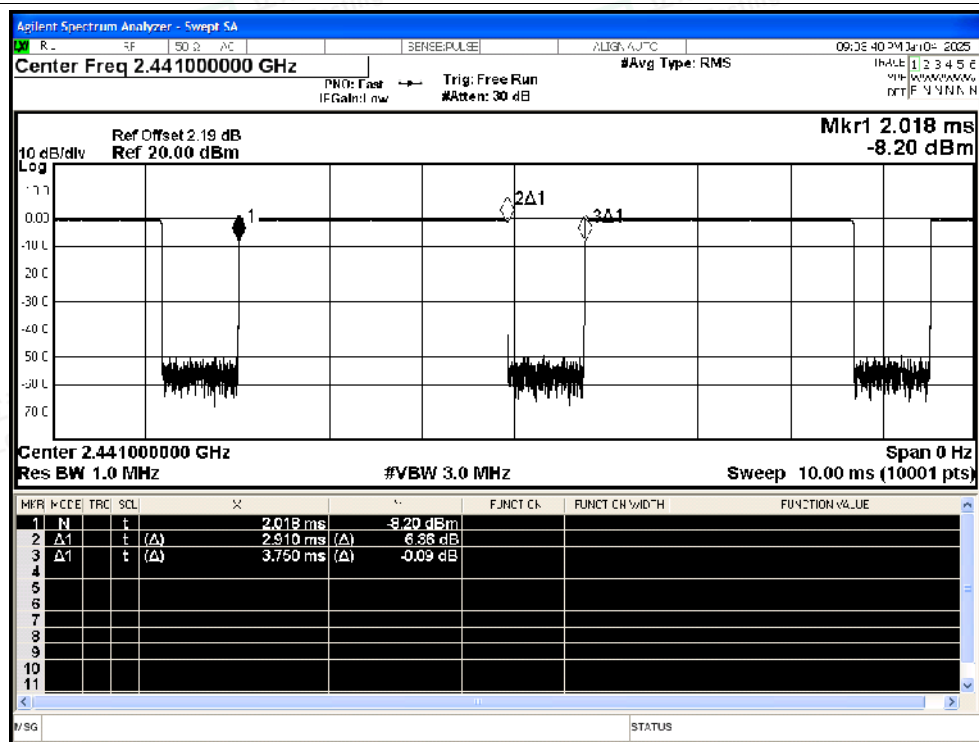


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



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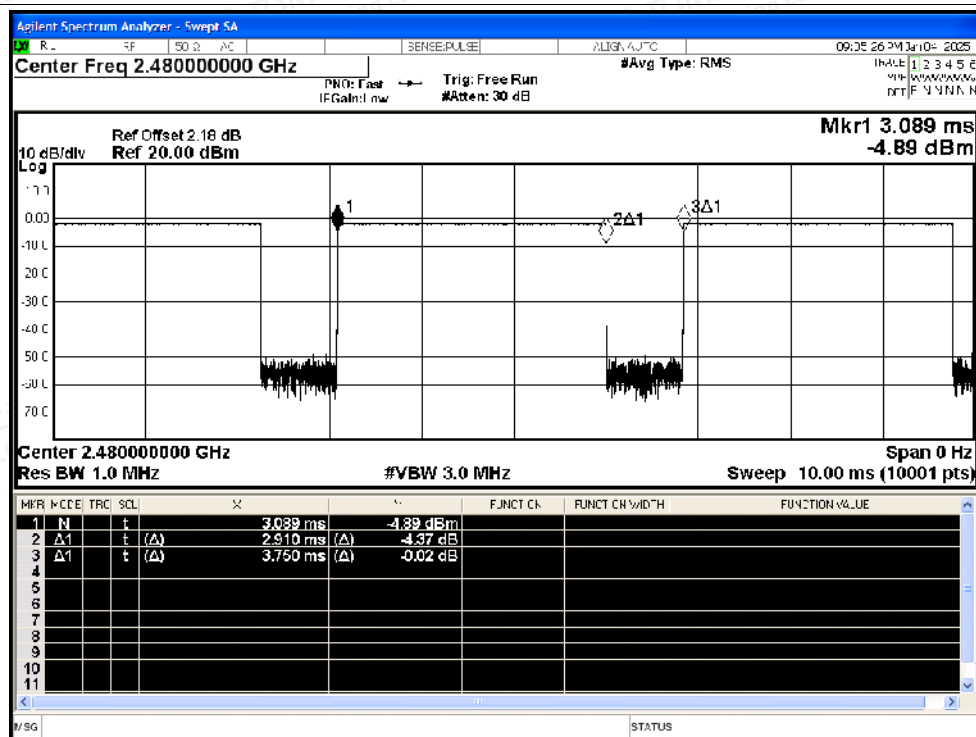
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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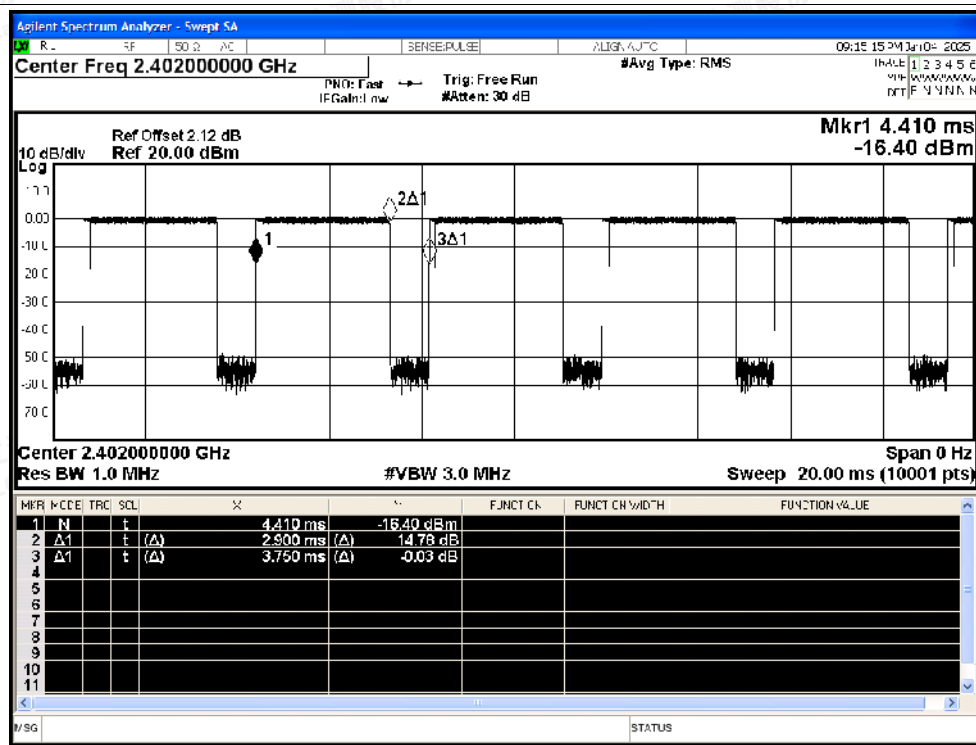
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

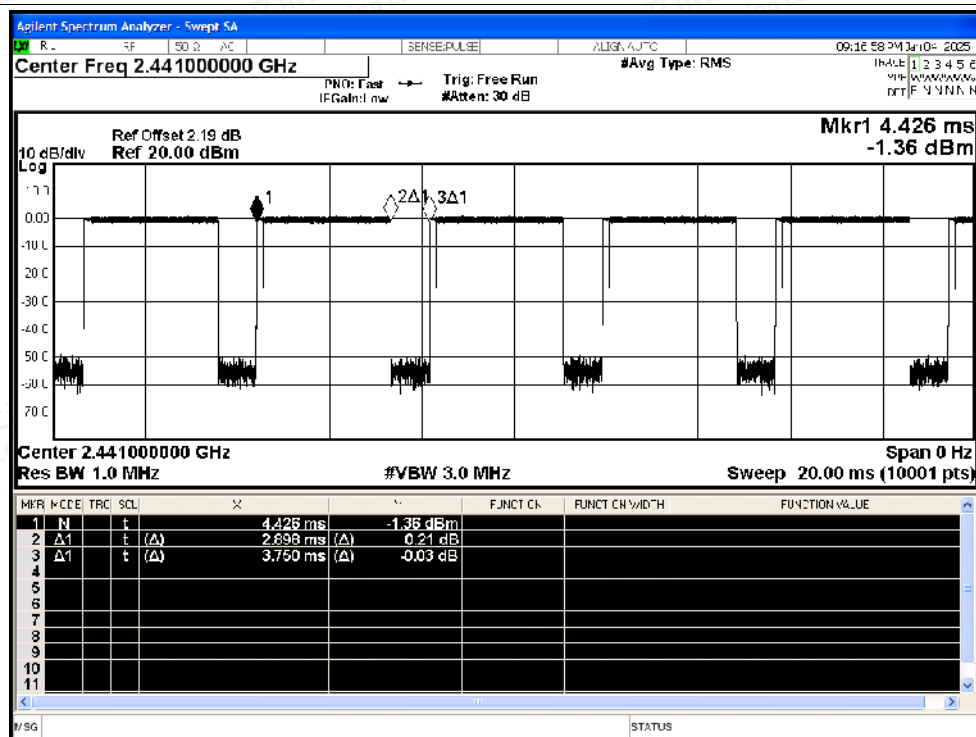
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

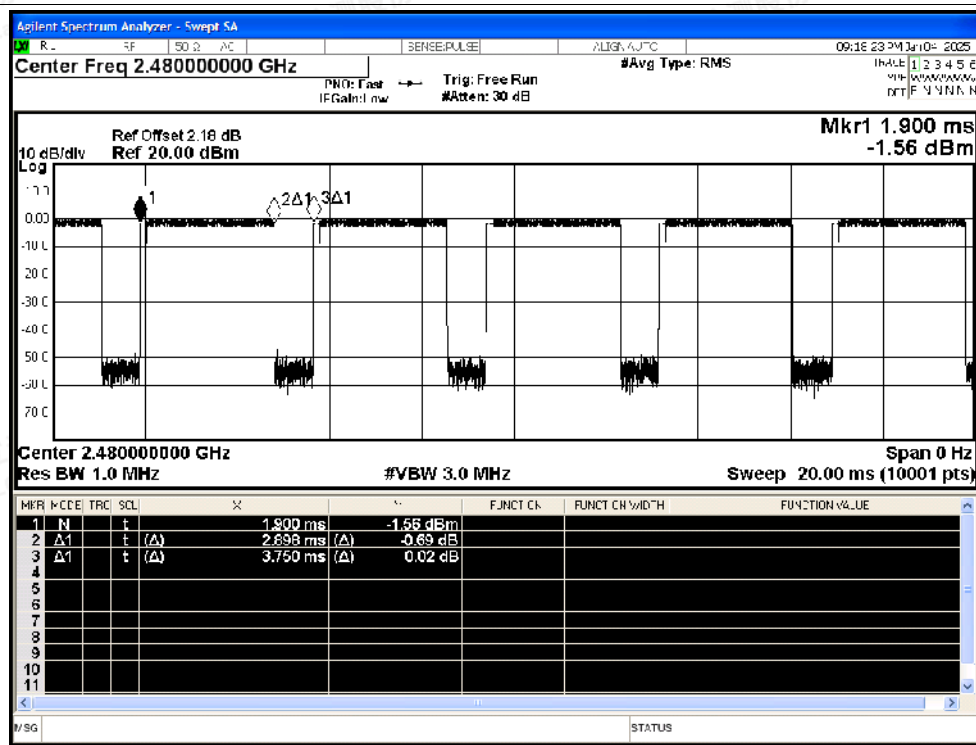
Scan code to check authenticity



Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

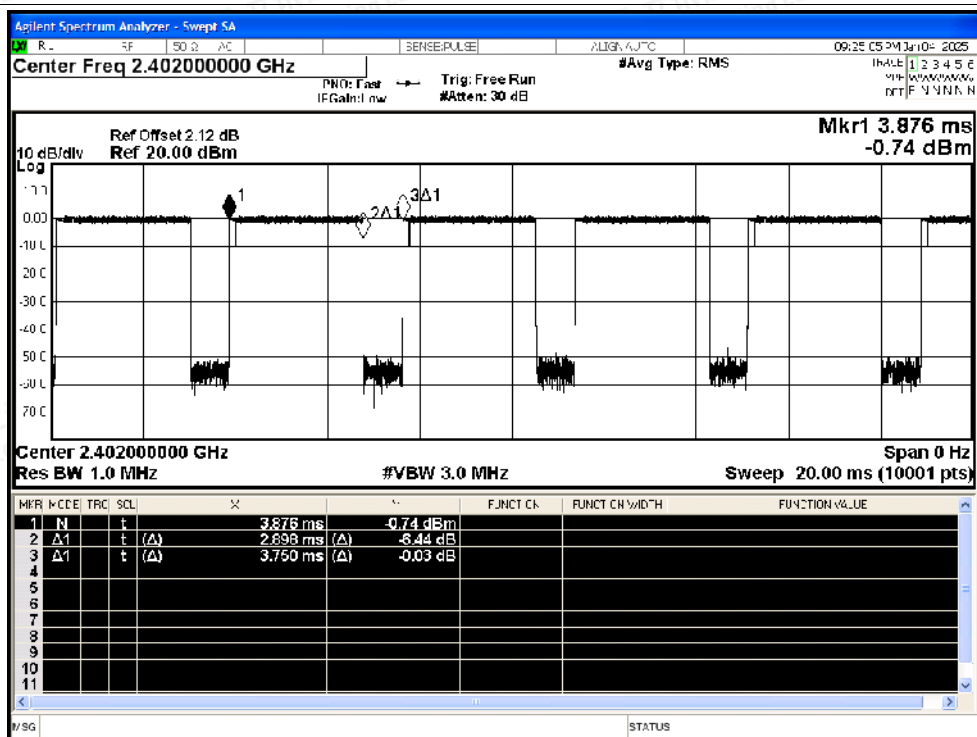
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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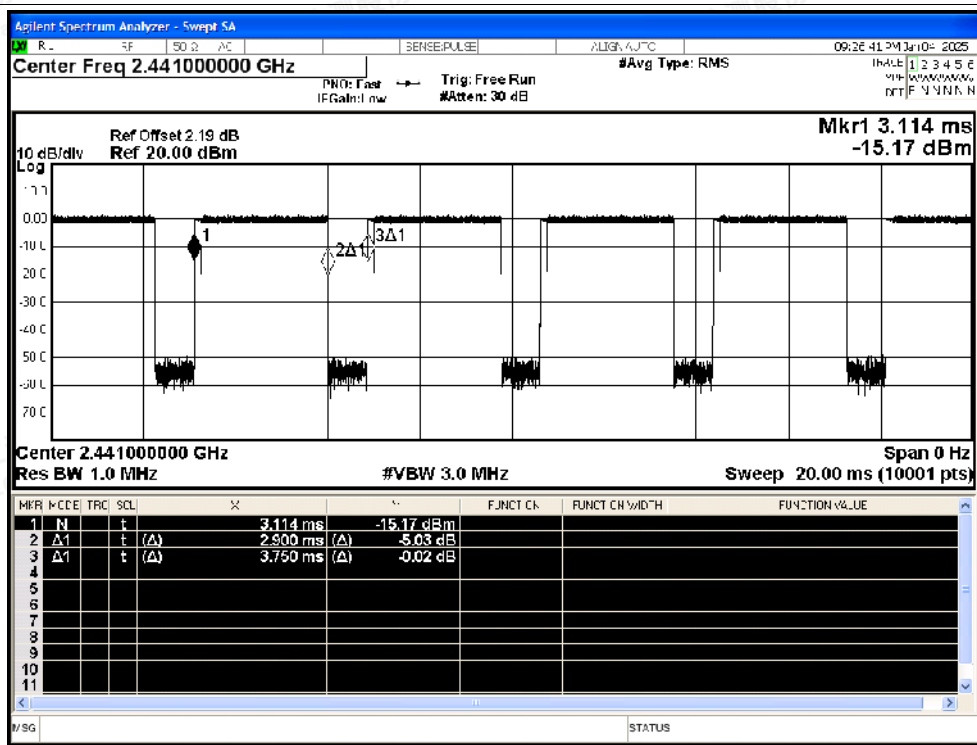
Scan code to check authenticity



Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

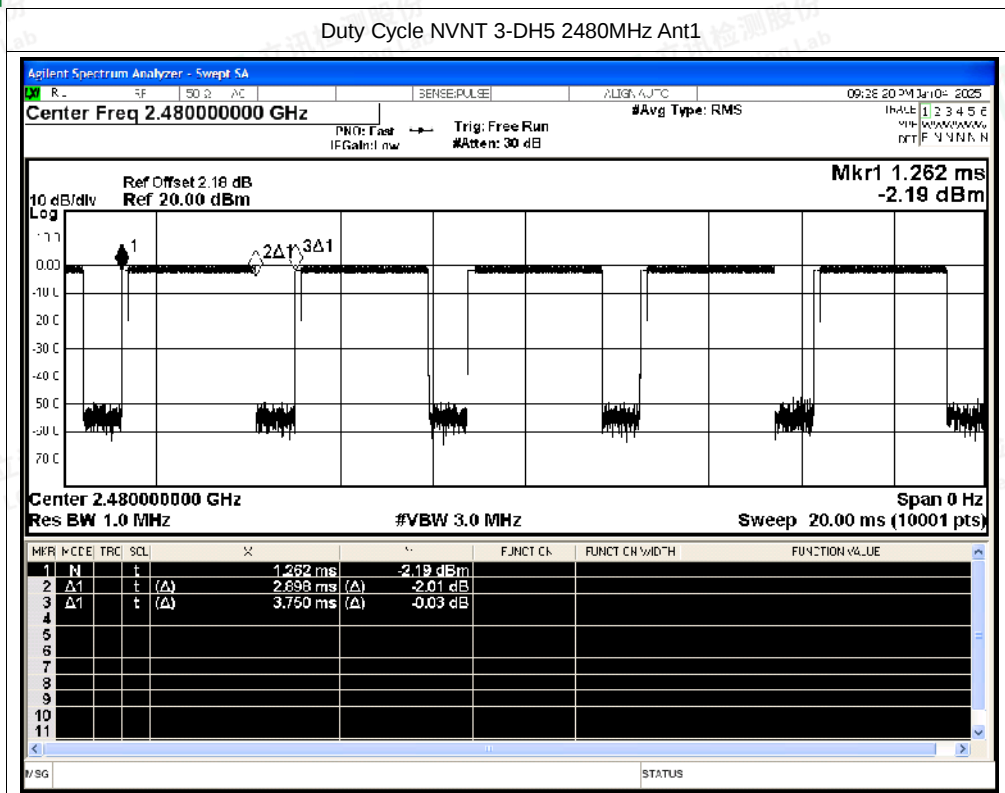


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A.9 Restrict Band

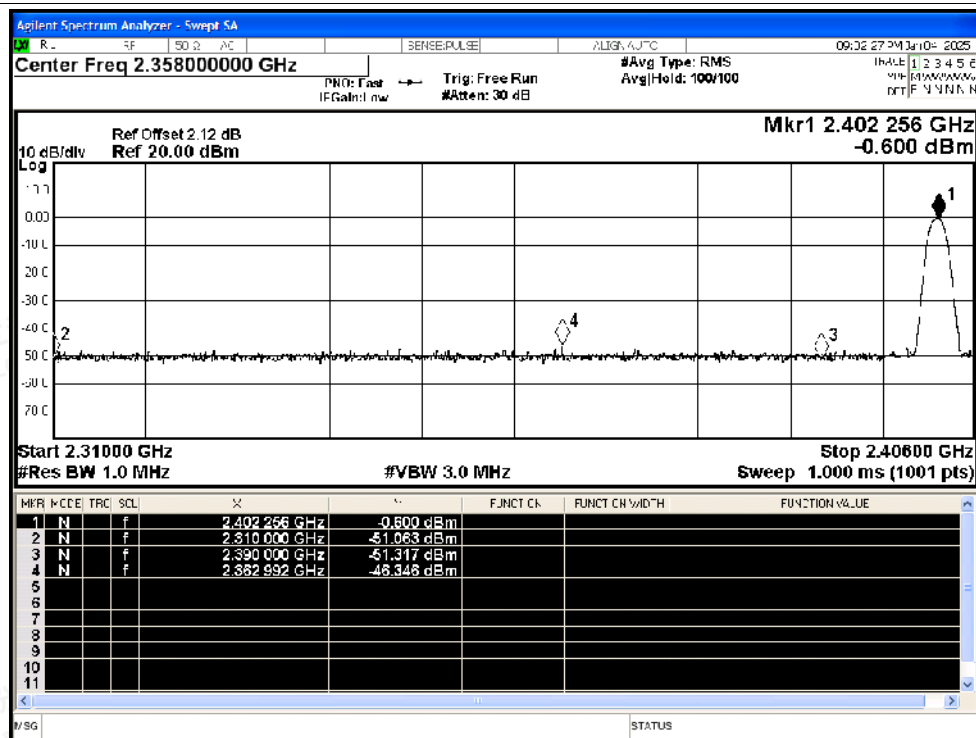
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.06	2.3	-	46.50	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.12	2.3	1.1	39.54	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2362.992	-46.35	2.3	-	51.21	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2388.048	-57.58	2.3	1.1	41.08	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.32	2.3	-	46.24	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.2	2.3	1.1	40.46	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.59	2.3	-	46.97	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.9	2.3	1.1	40.76	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2491.312	-47.08	2.3	-	50.48	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485	-57.19	2.3	1.1	41.47	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.98	2.3	-	47.58	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.9	2.3	1.1	40.76	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.27	2.3	-	46.29	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.57	2.3	1.12	40.11	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2360.592	-46.88	2.3	-	50.68	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2379.696	-57.56	2.3	1.12	41.12	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.34	2.3	-	46.22	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.57	2.3	1.12	40.11	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-47.82	2.3	-	49.74	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.87	2.3	1.12	40.81	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2494.336	-45.94	2.3	-	51.62	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.208	-57.1	2.3	1.12	41.58	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.75	2.3	-	47.81	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.07	2.3	1.12	40.61	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.6	2.3	-	47.96	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.9	2.3	1.12	39.78	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2357.328	-47.36	2.3	-	50.20	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2376.912	-57.51	2.3	1.12	41.17	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.92	2.3	-	46.64	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.39	2.3	1.12	40.29	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.07	2.3	-	48.49	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.67	2.3	1.12	41.01	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2489.2	-46.9	2.3	-	50.66	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.608	-57.02	2.3	1.12	41.66	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.63	2.3	-	48.93	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.66	2.3	1.12	40.02	Average	54	Pass



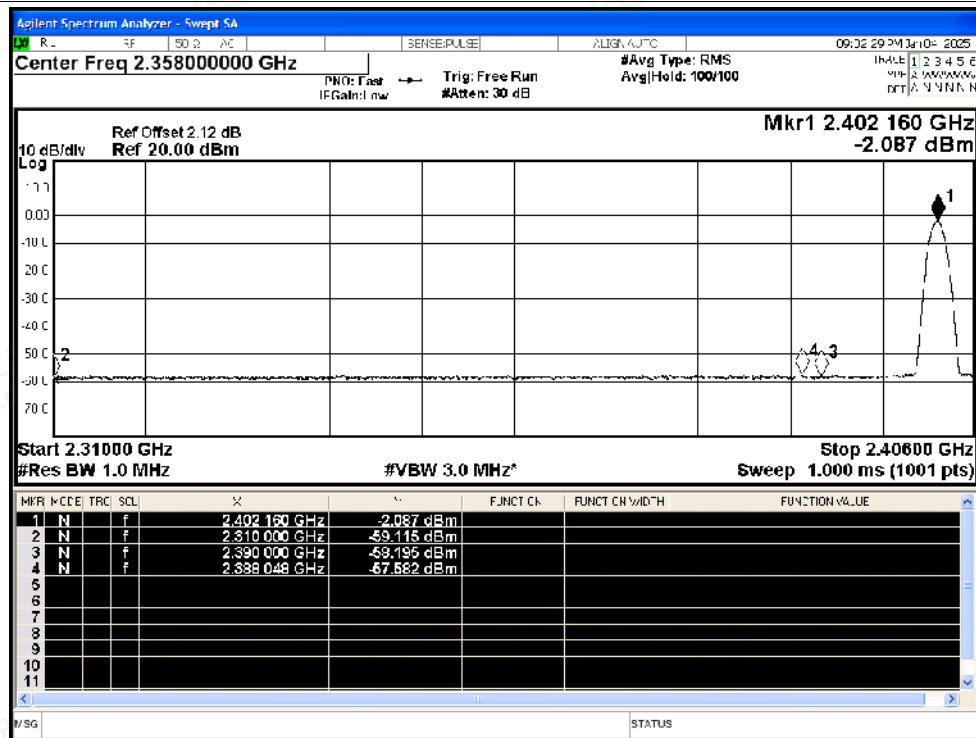


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

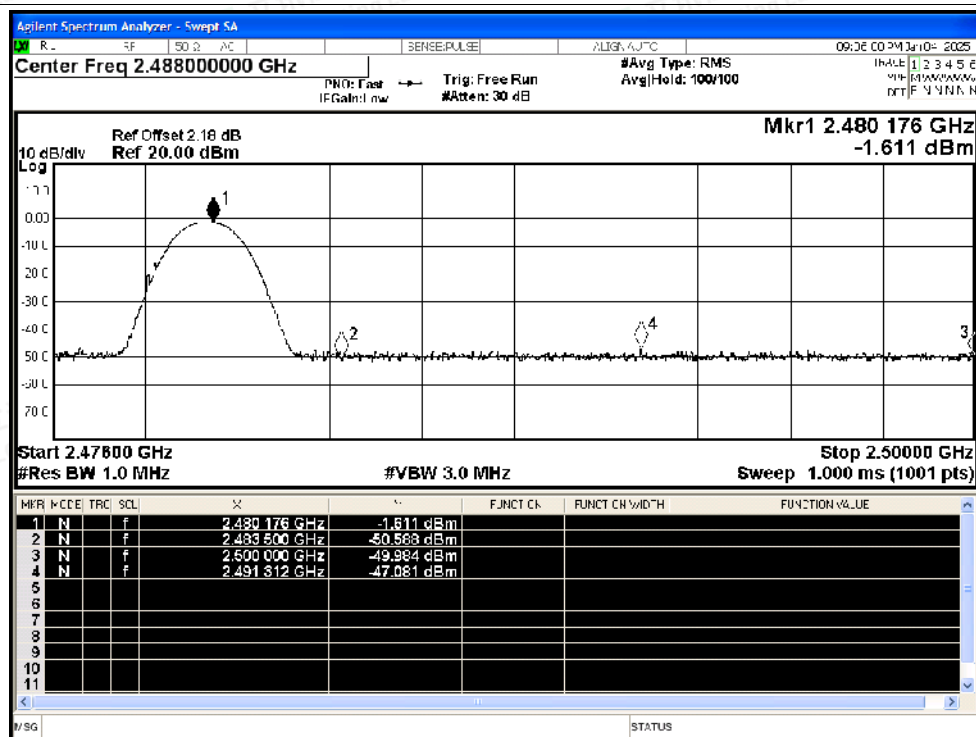
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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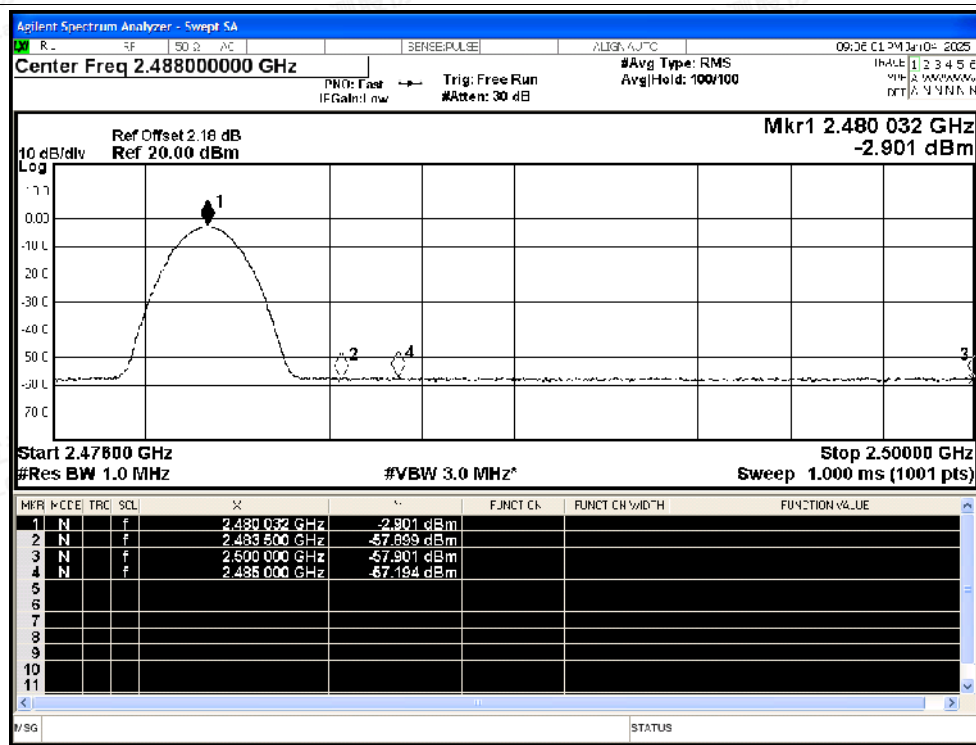
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

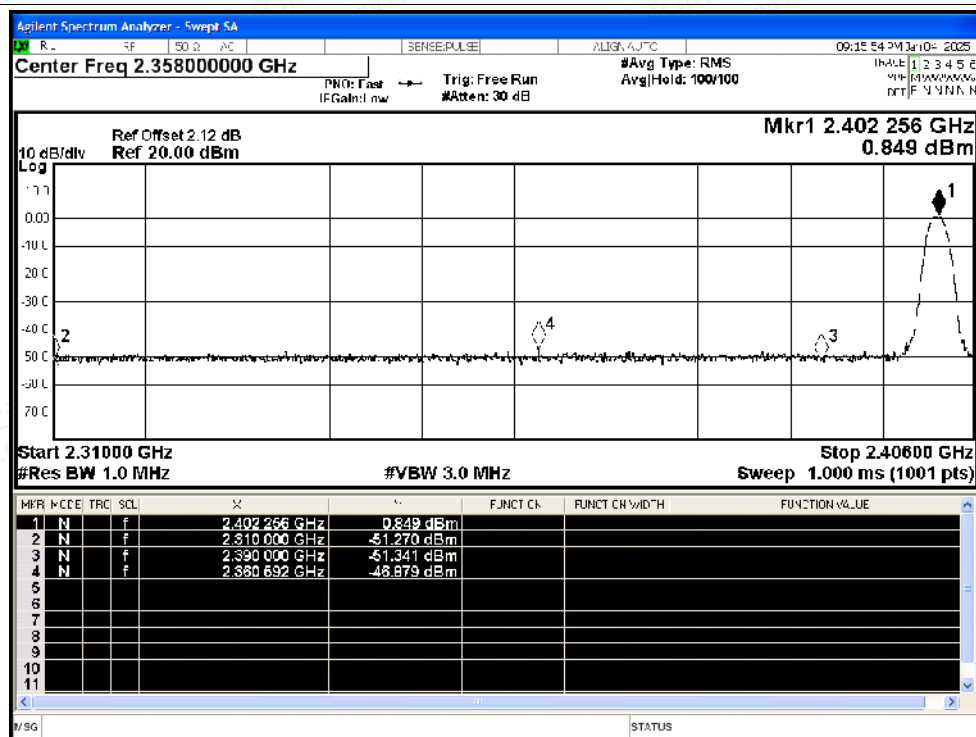
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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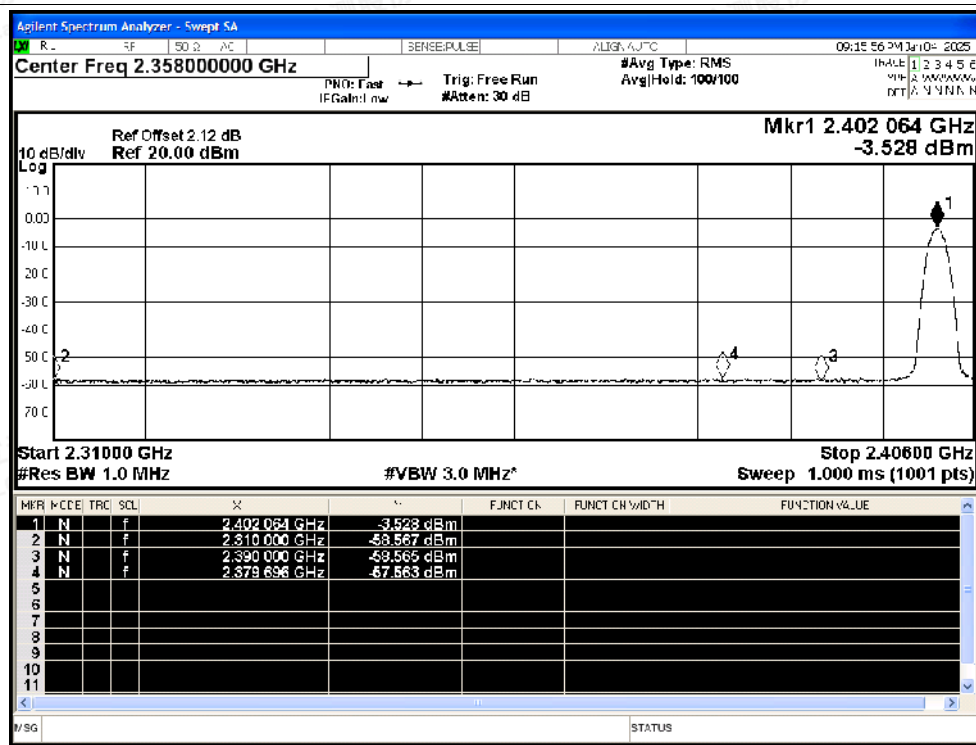
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

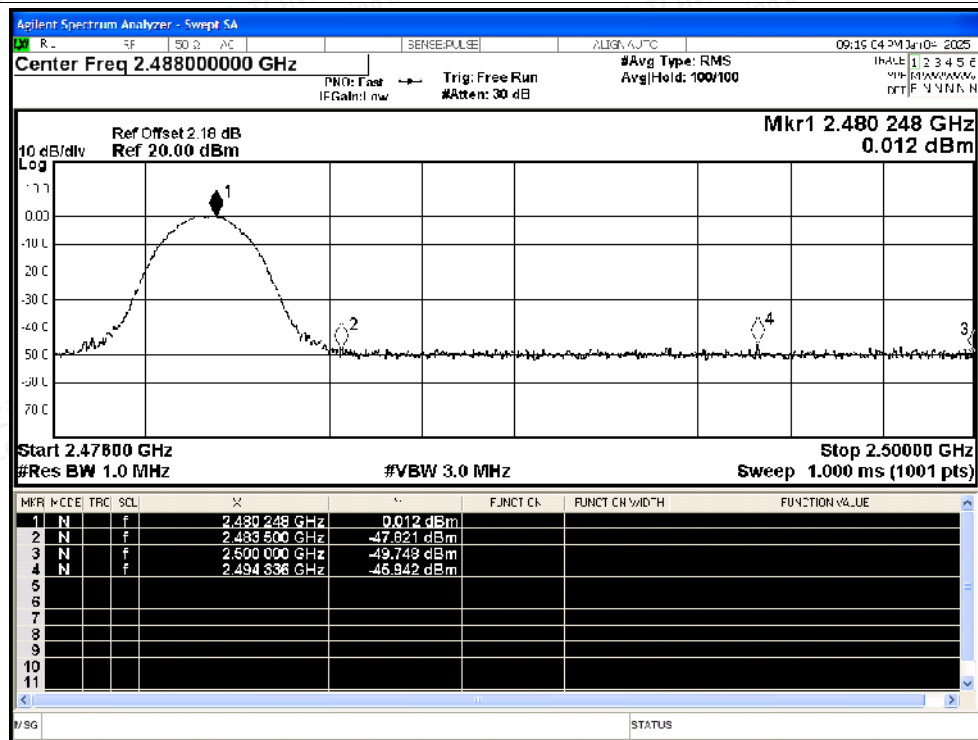
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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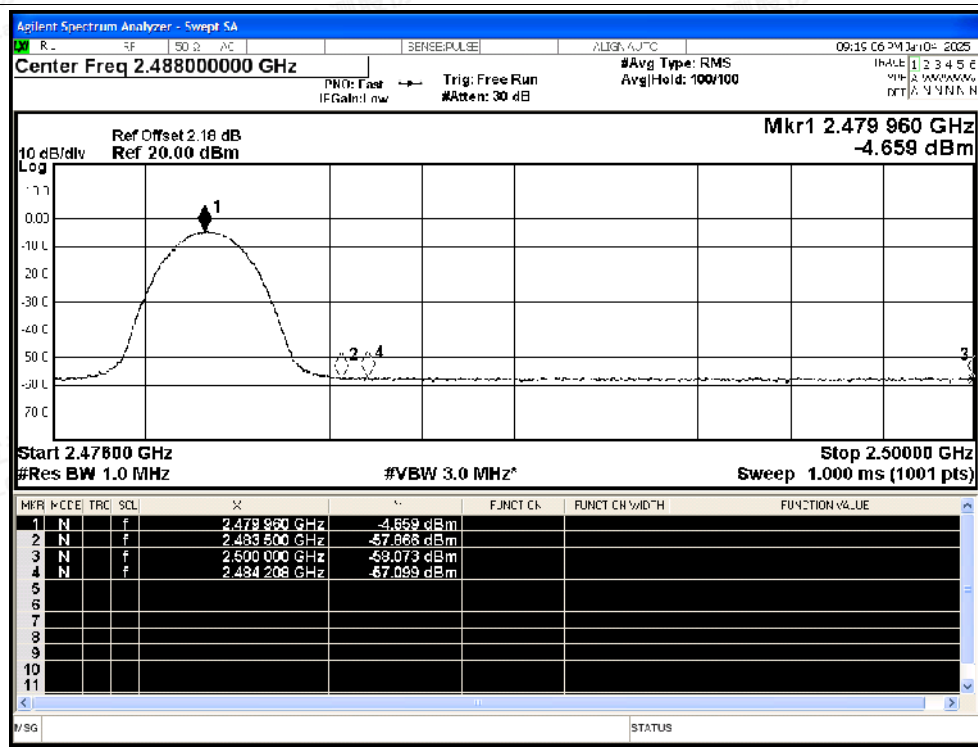
Scan code to check authenticity



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

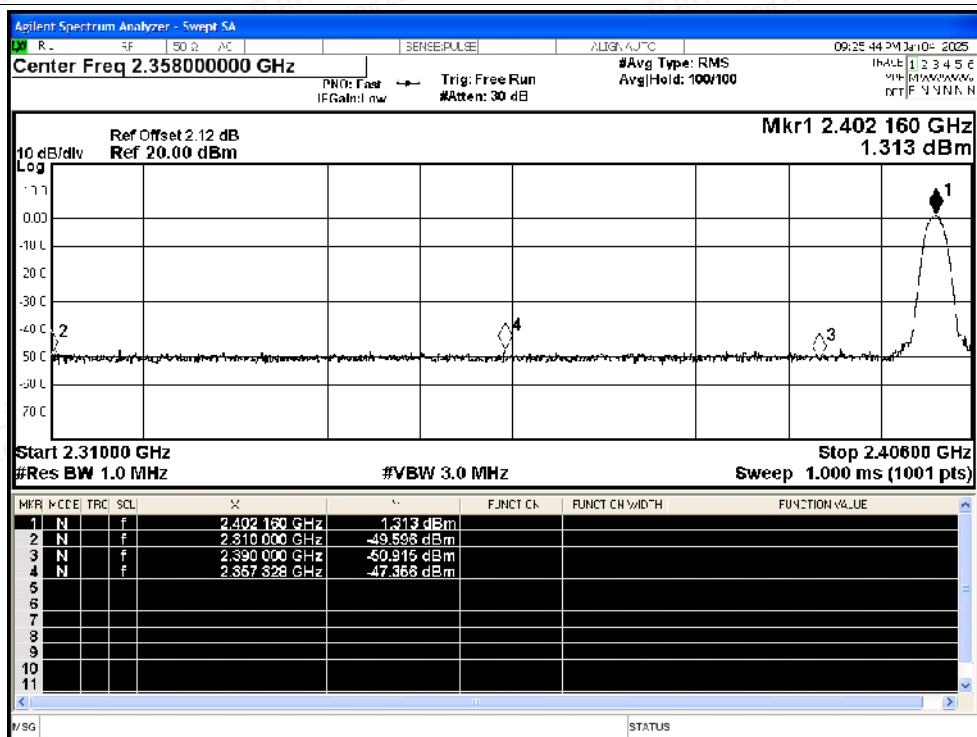


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

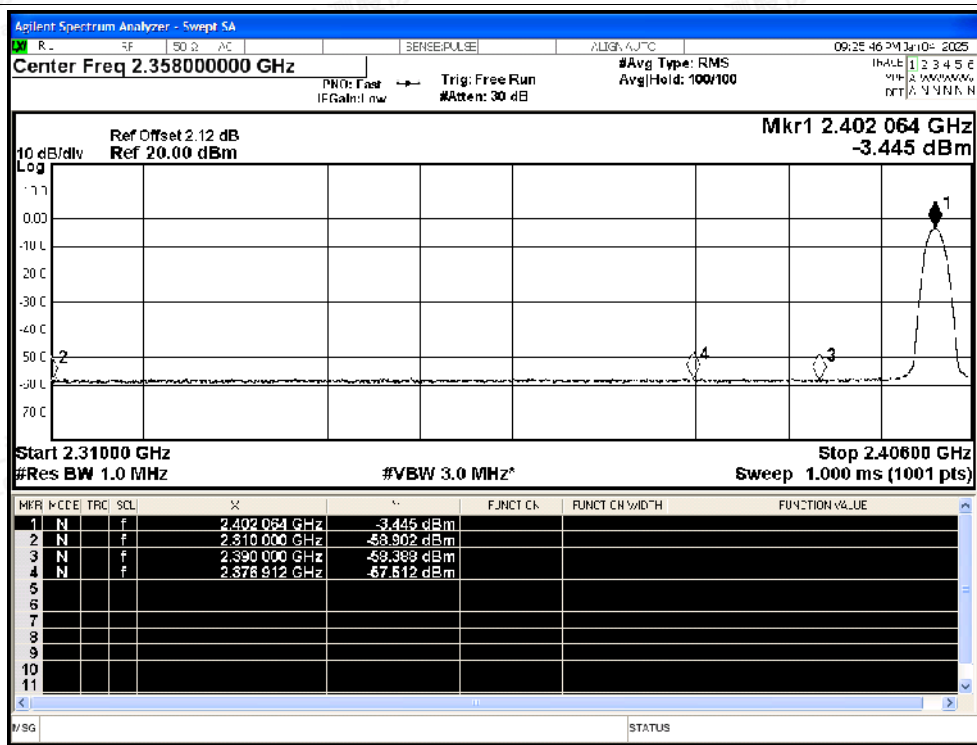




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

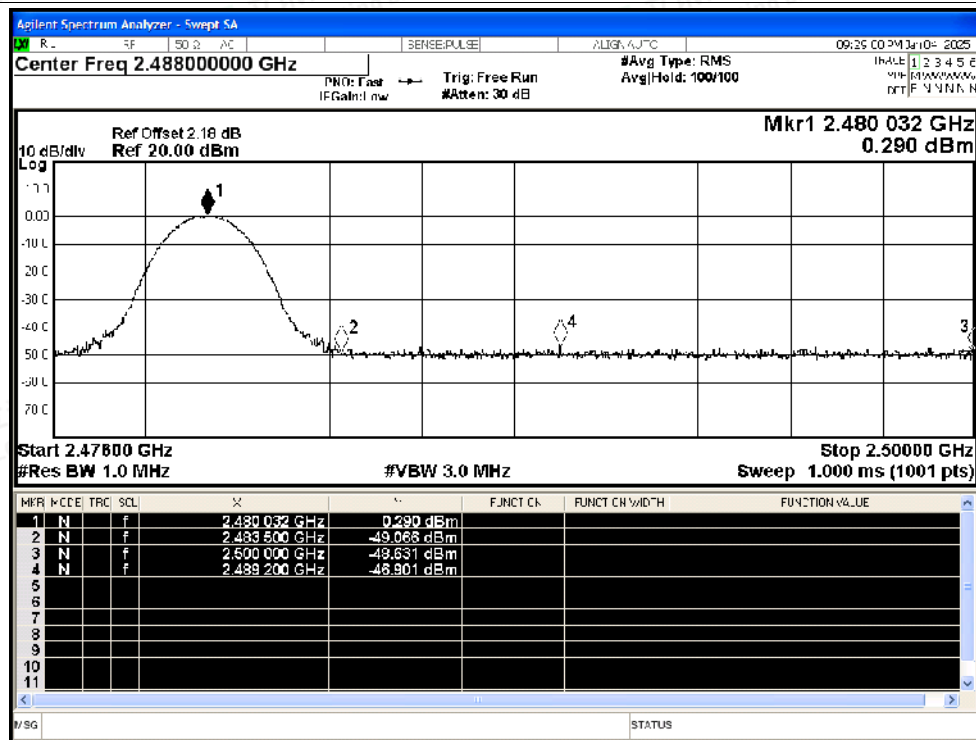
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

