



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Retro Speaker

Test Model: TFVB

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
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	0.968	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.959	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.963	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.275	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.279	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.336	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.294	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.291	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.289	N/A	Pass

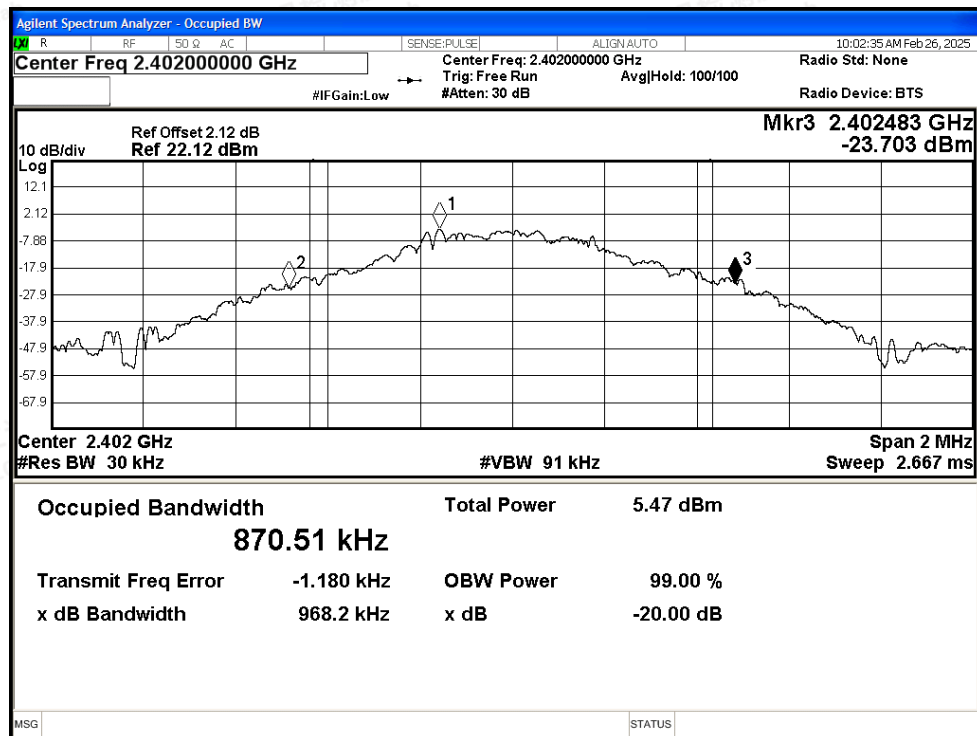


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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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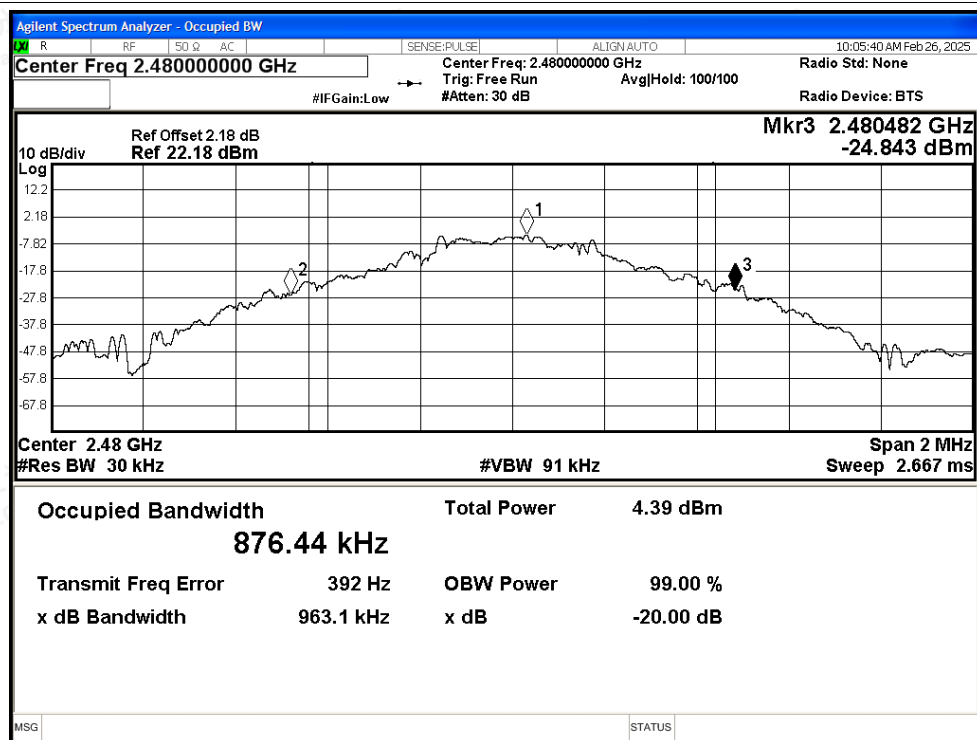
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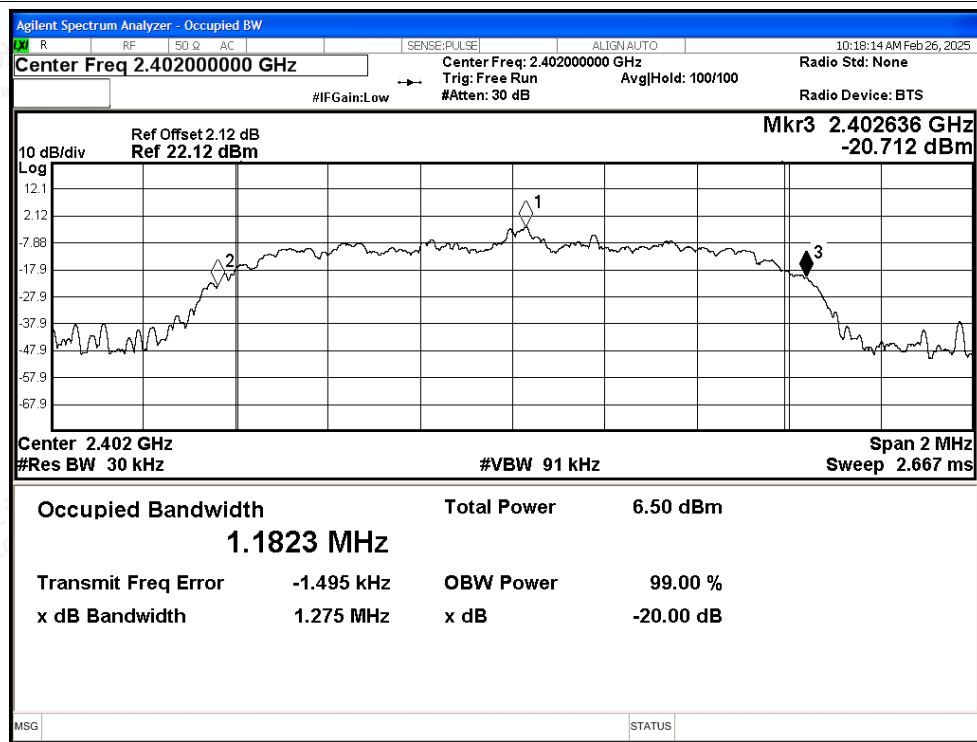
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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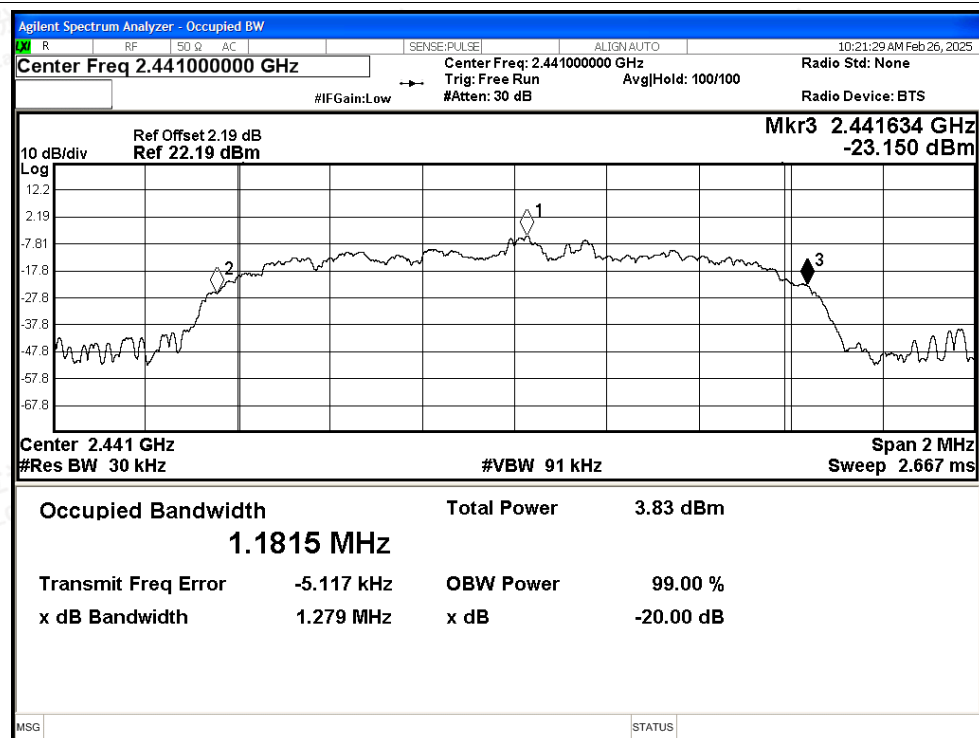
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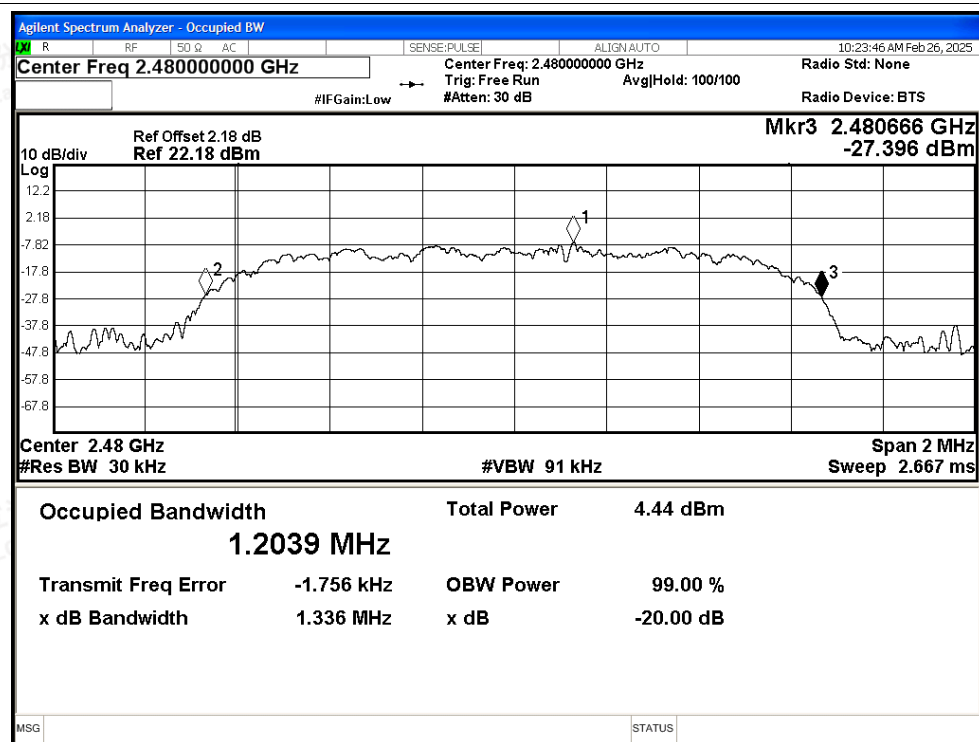
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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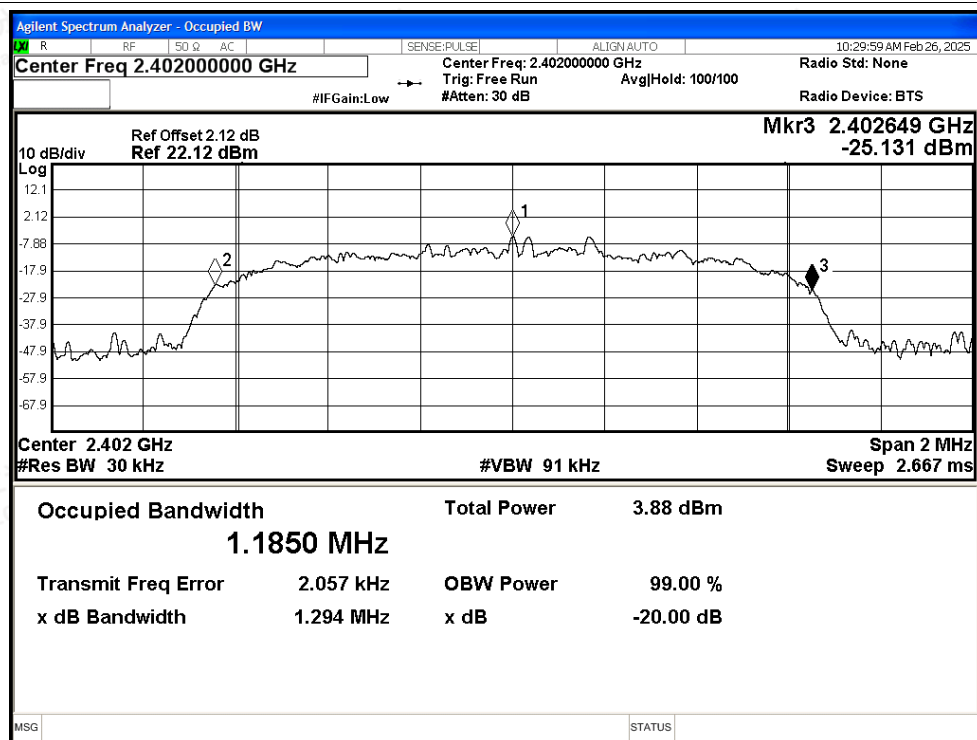
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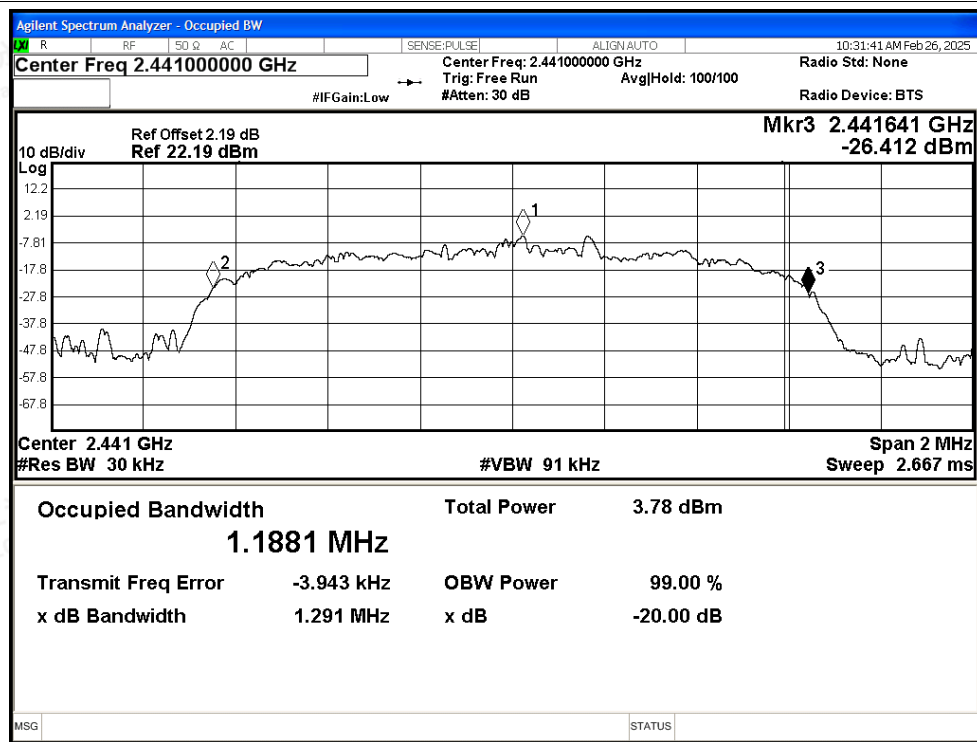
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

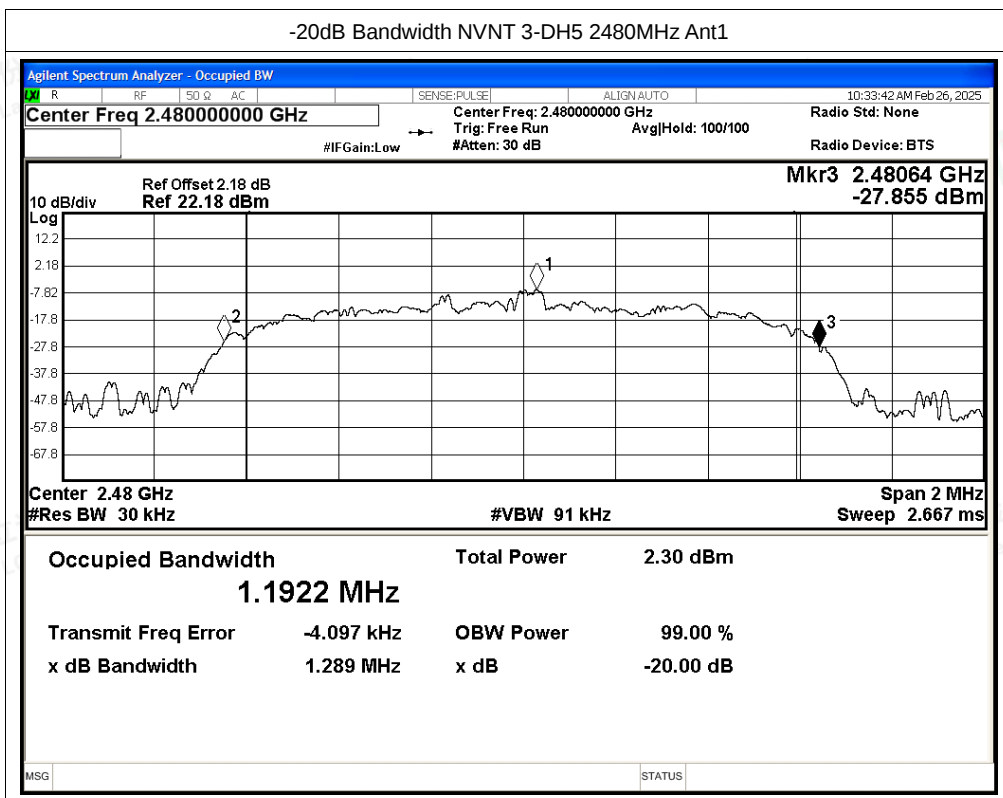


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.89	21	Pass
NVNT	1-DH5	2441	Ant1	-0.58	21	Pass
NVNT	1-DH5	2480	Ant1	-1.38	21	Pass
NVNT	2-DH5	2402	Ant1	-0.15	21	Pass
NVNT	2-DH5	2441	Ant1	-0.63	21	Pass
NVNT	2-DH5	2480	Ant1	0.88	21	Pass
NVNT	3-DH5	2402	Ant1	0.11	21	Pass
NVNT	3-DH5	2441	Ant1	-0.55	21	Pass
NVNT	3-DH5	2480	Ant1	-2.07	21	Pass

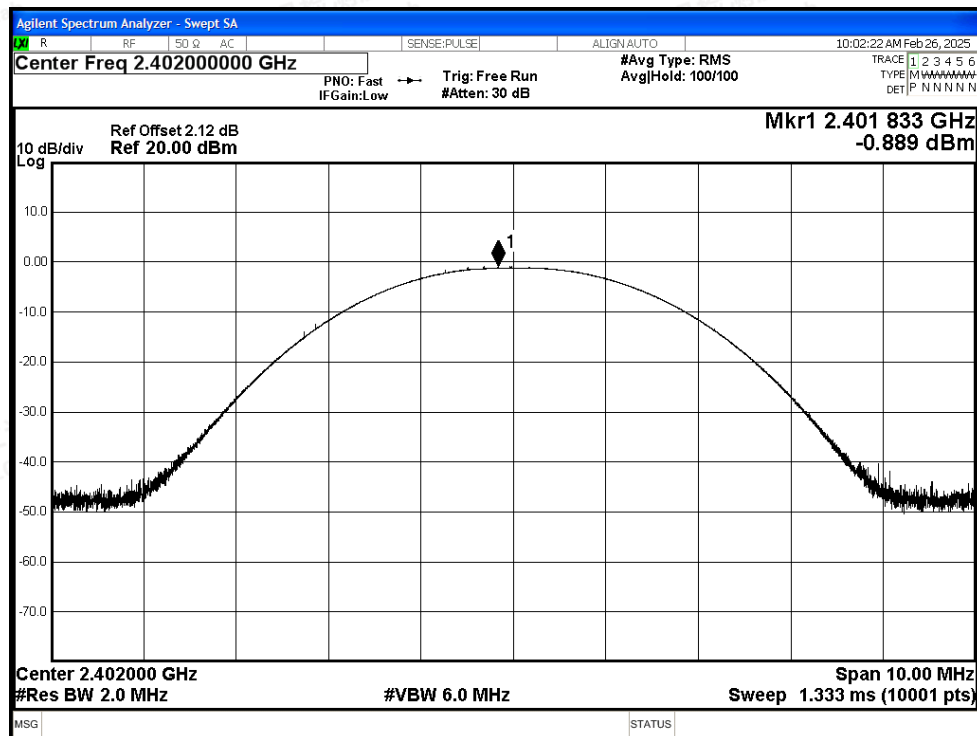


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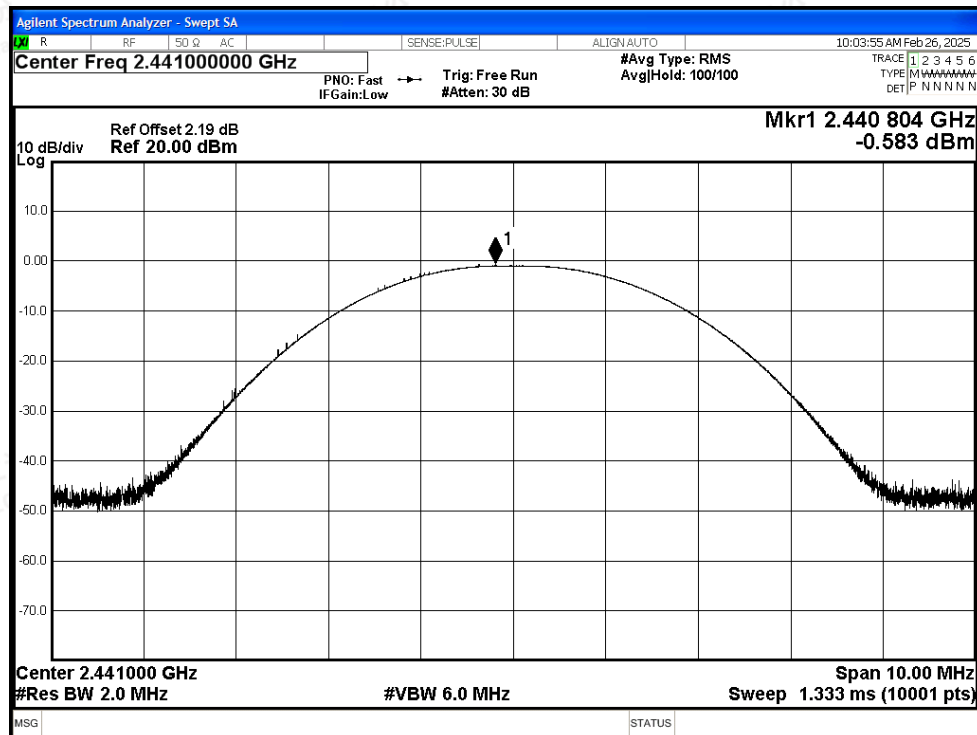


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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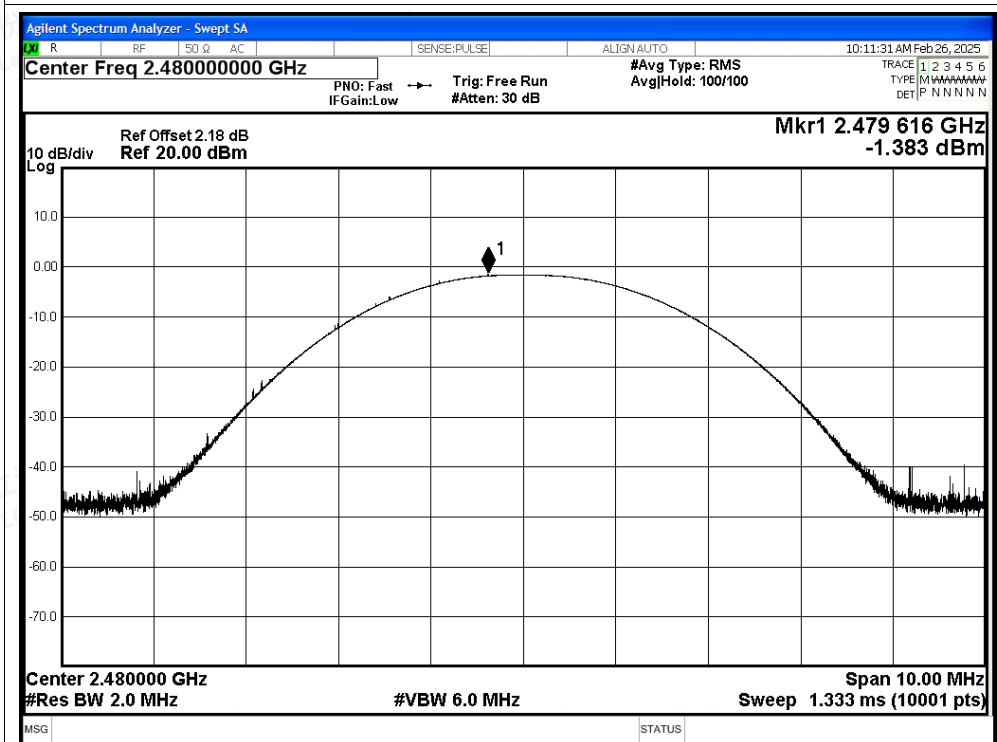
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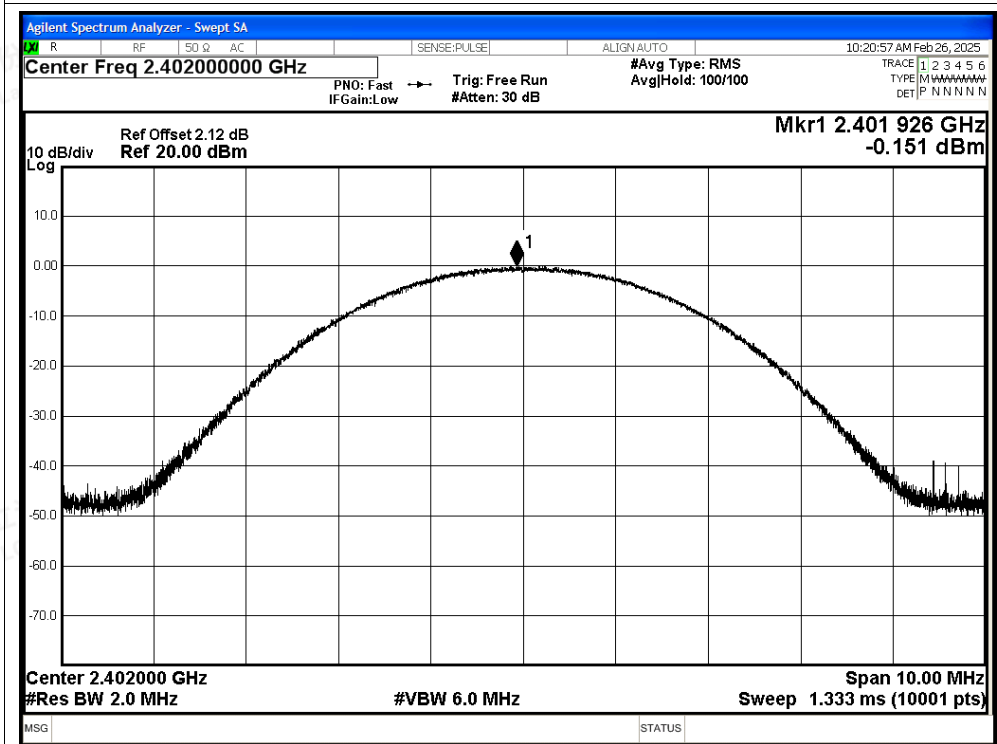
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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1

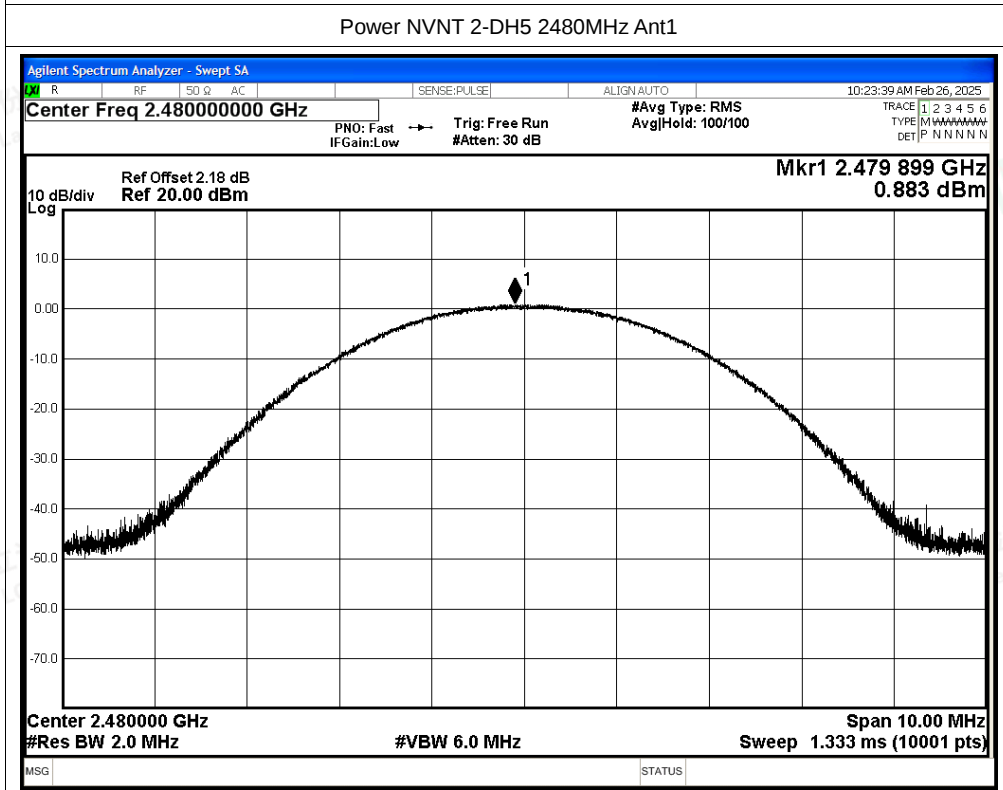
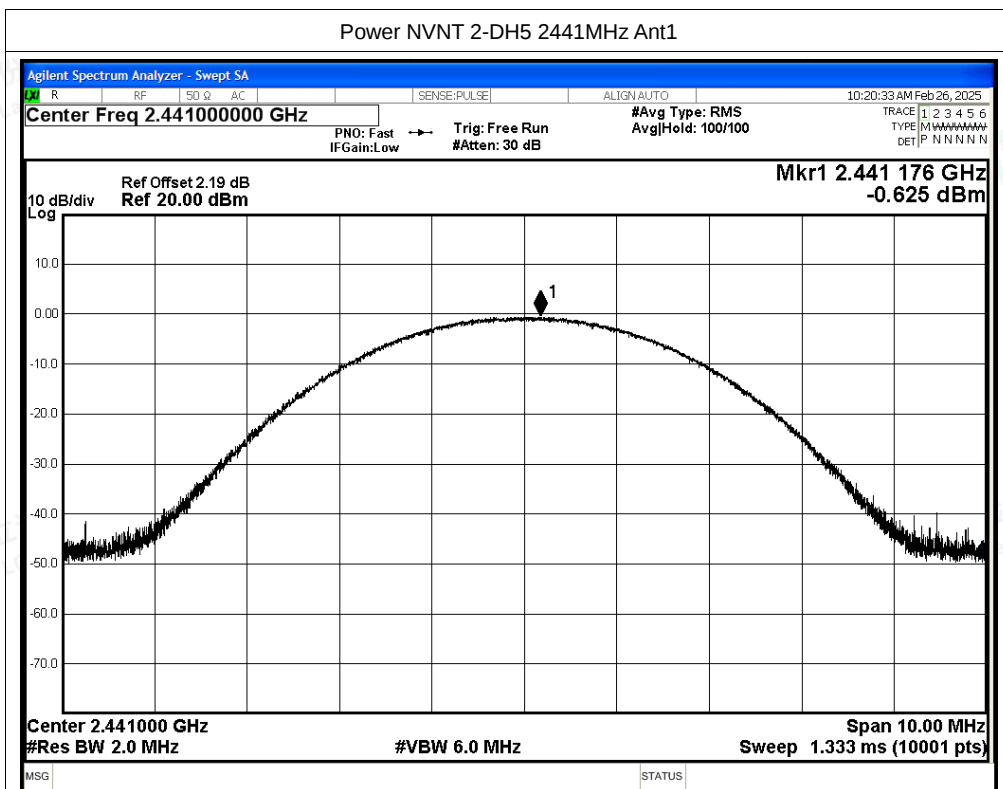


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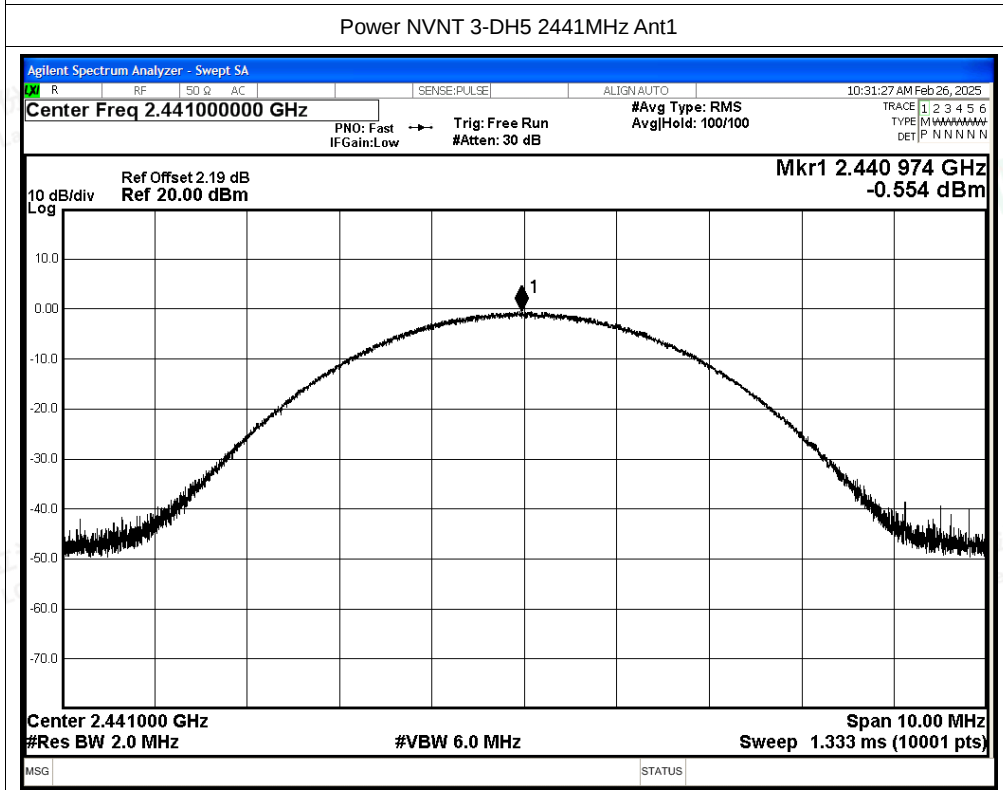
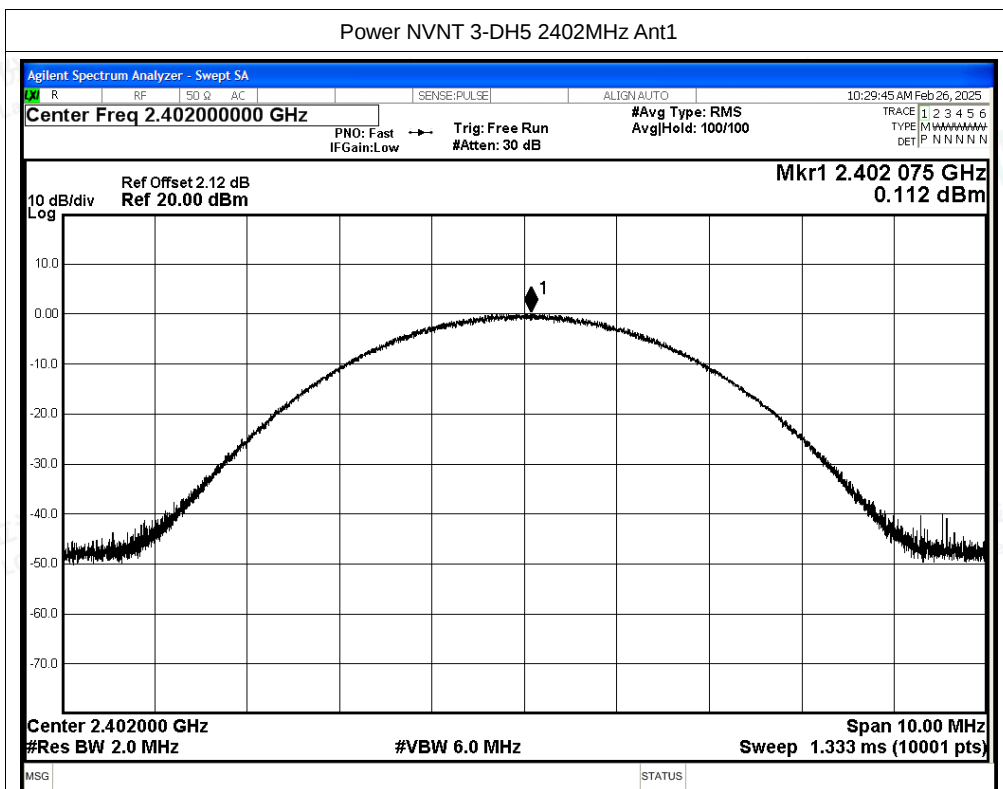


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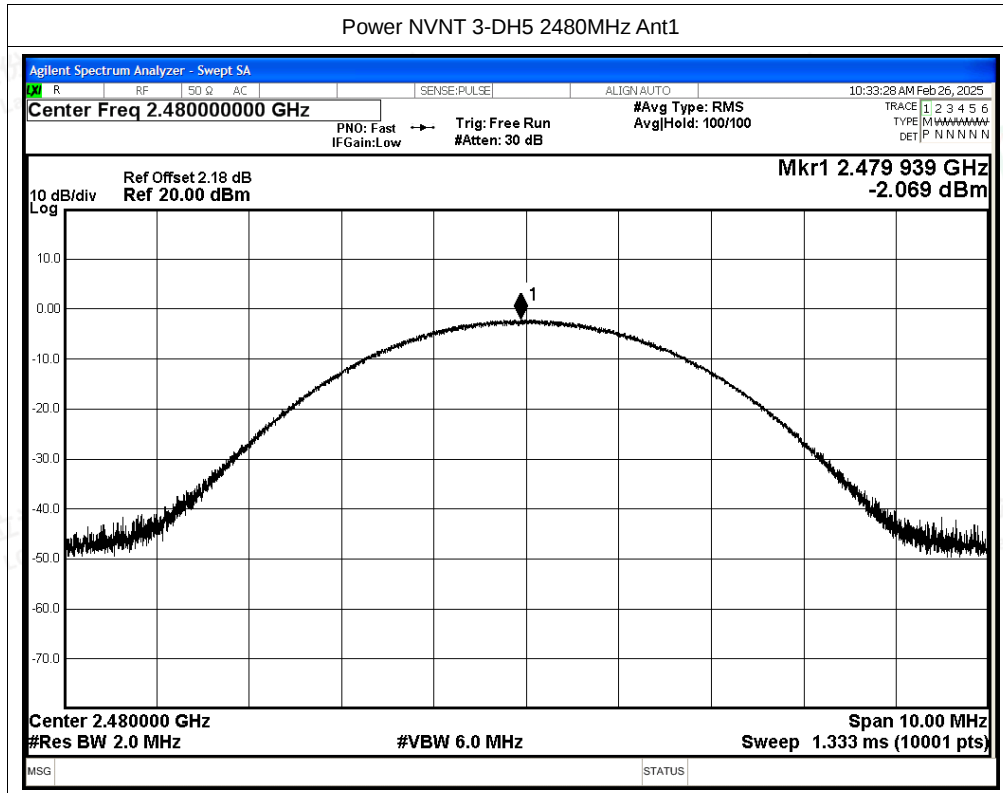


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.844	2403.038	1.194	0.645	Pass
NVNT	2-DH5	Ant1	2402.002	2403.038	1.036	0.891	Pass
NVNT	3-DH5	Ant1	2401.998	2403.018	1.02	0.863	Pass

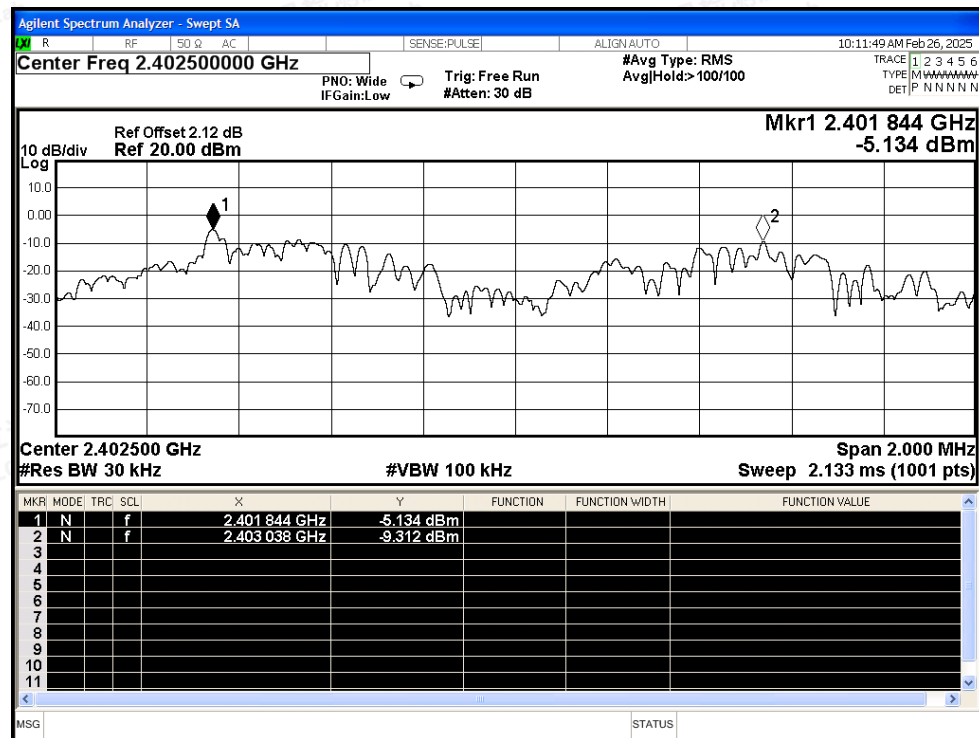


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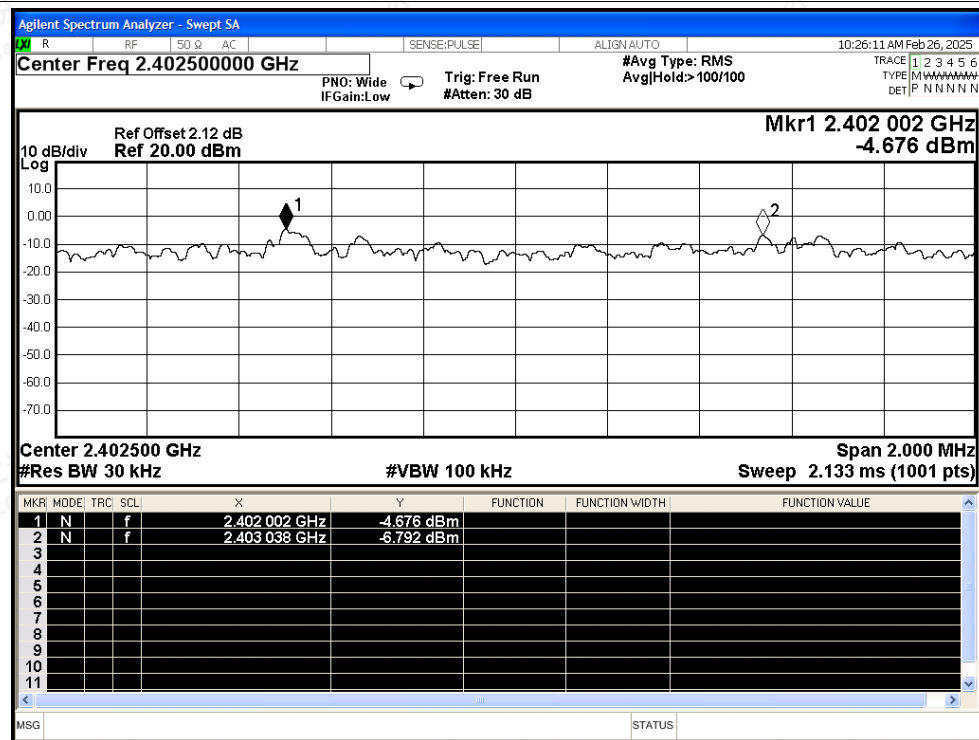


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

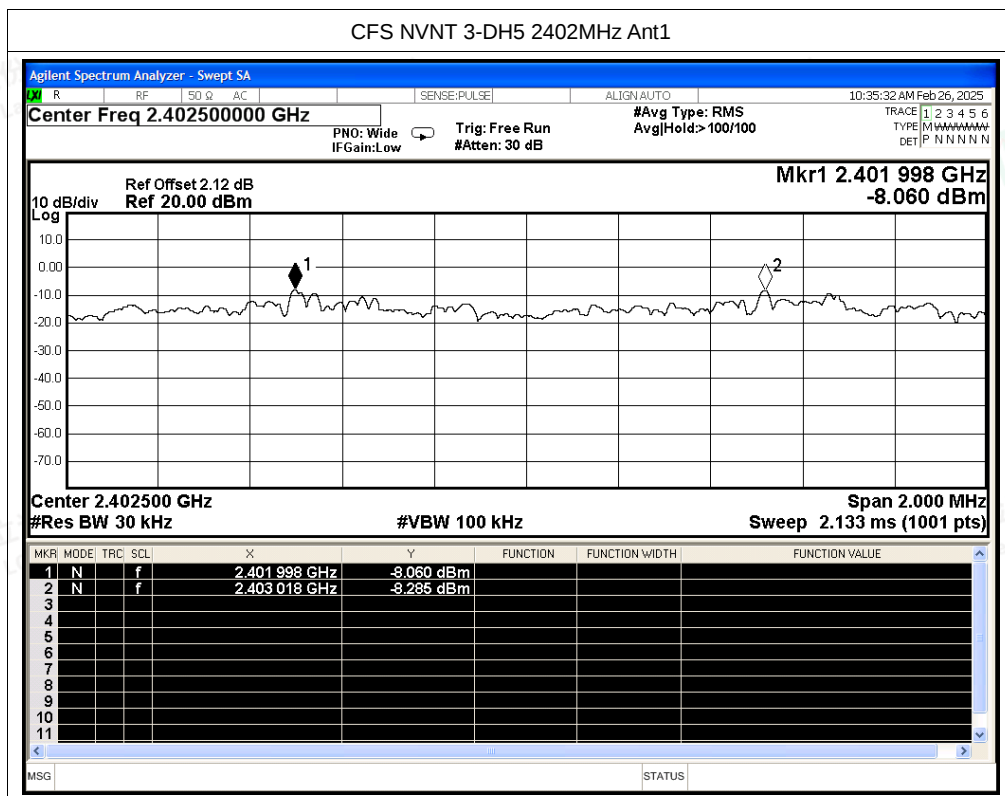


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A.4 Dwell Time

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	293.91	101	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	301.392	104	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	324.464	112	31600	400	Pass

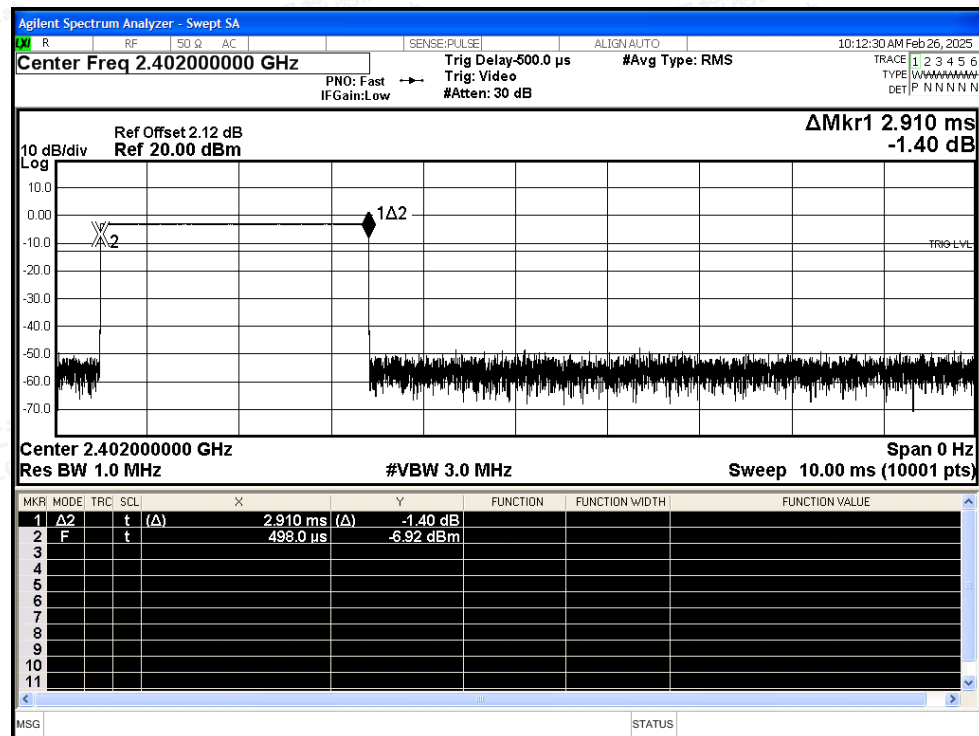


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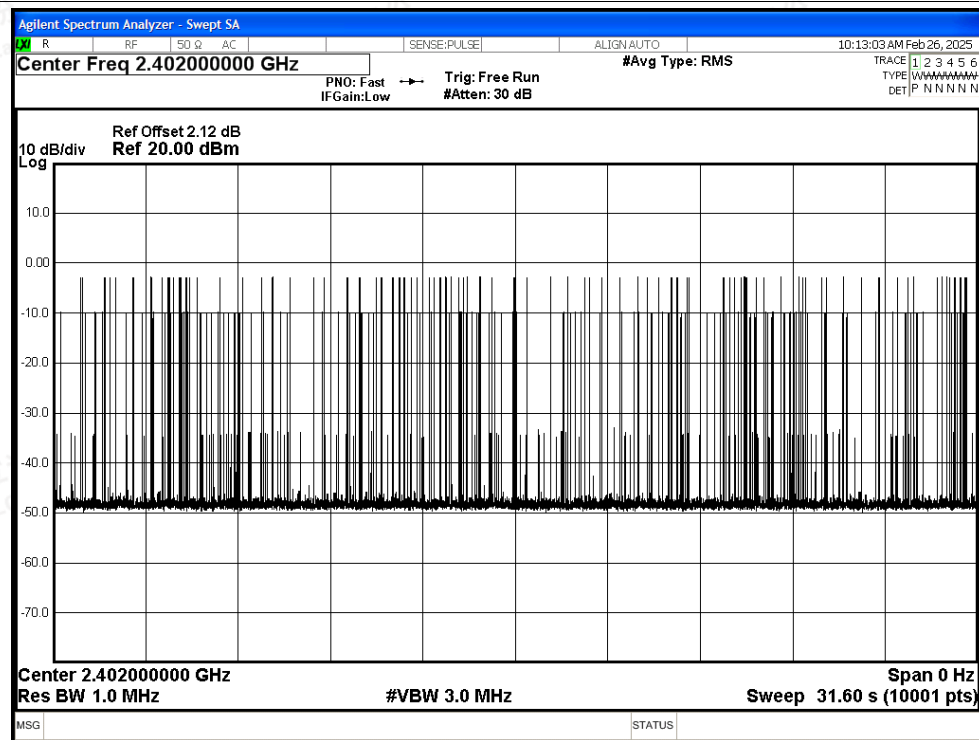


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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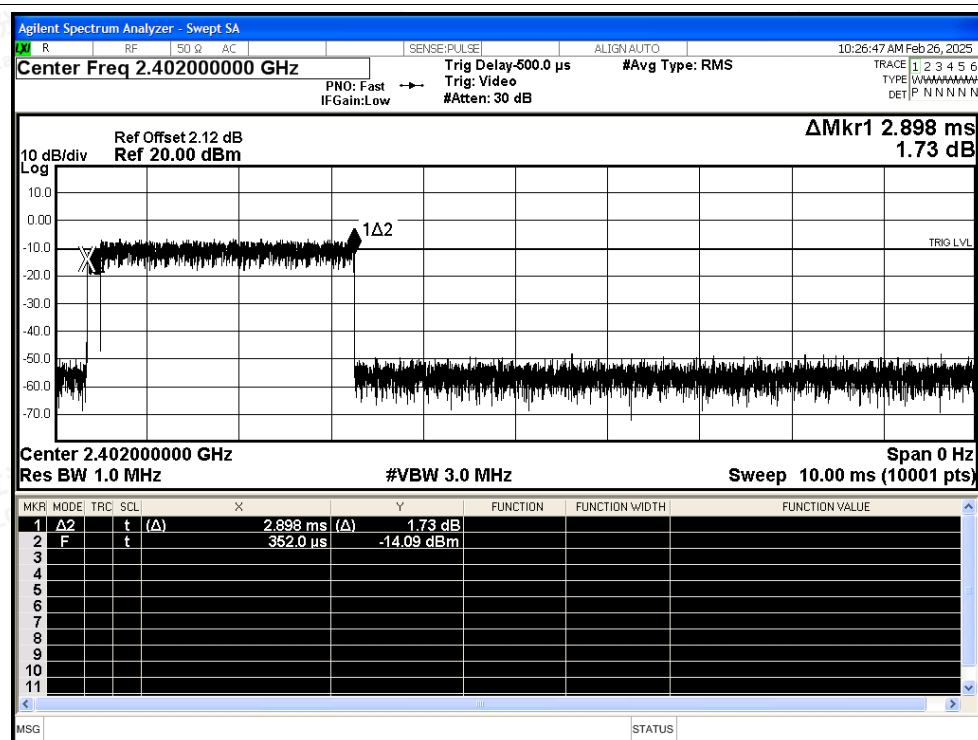
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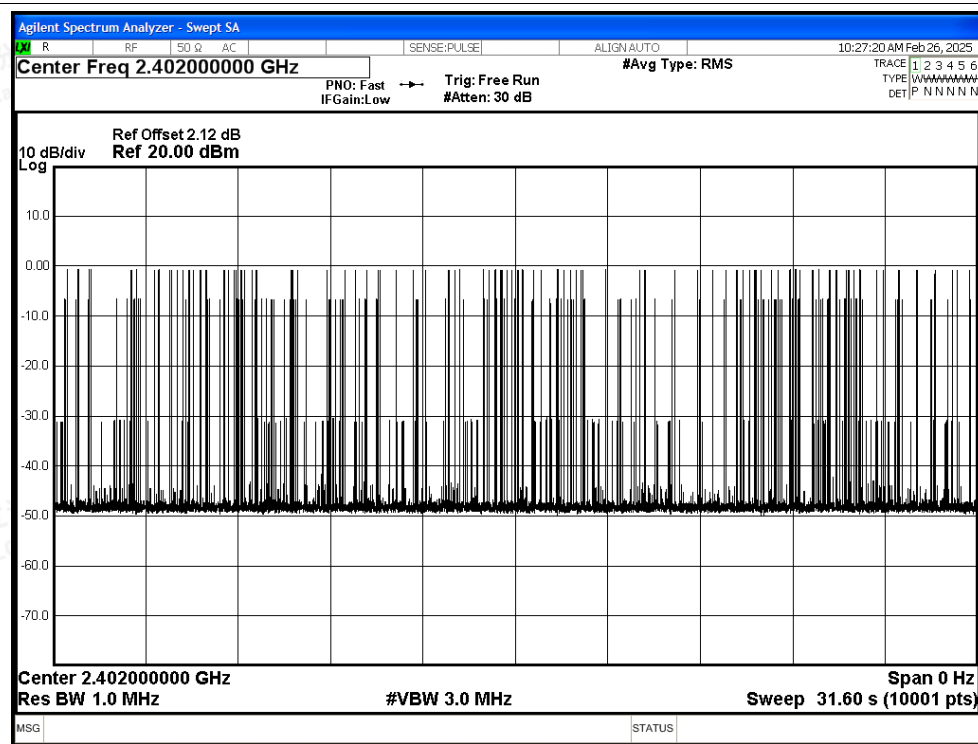
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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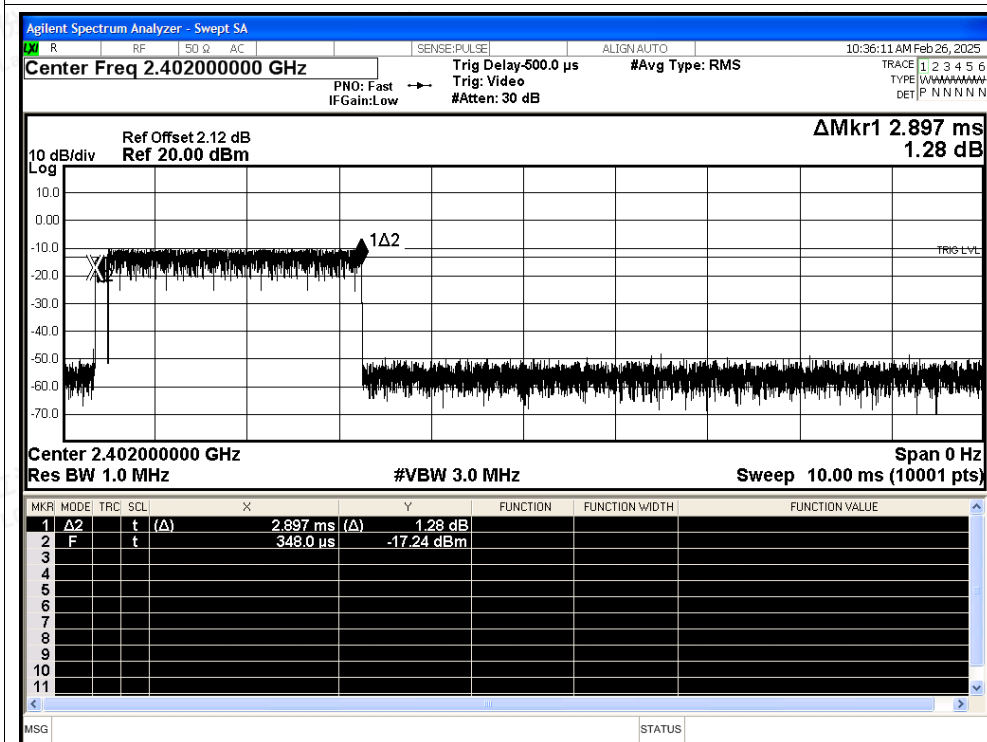
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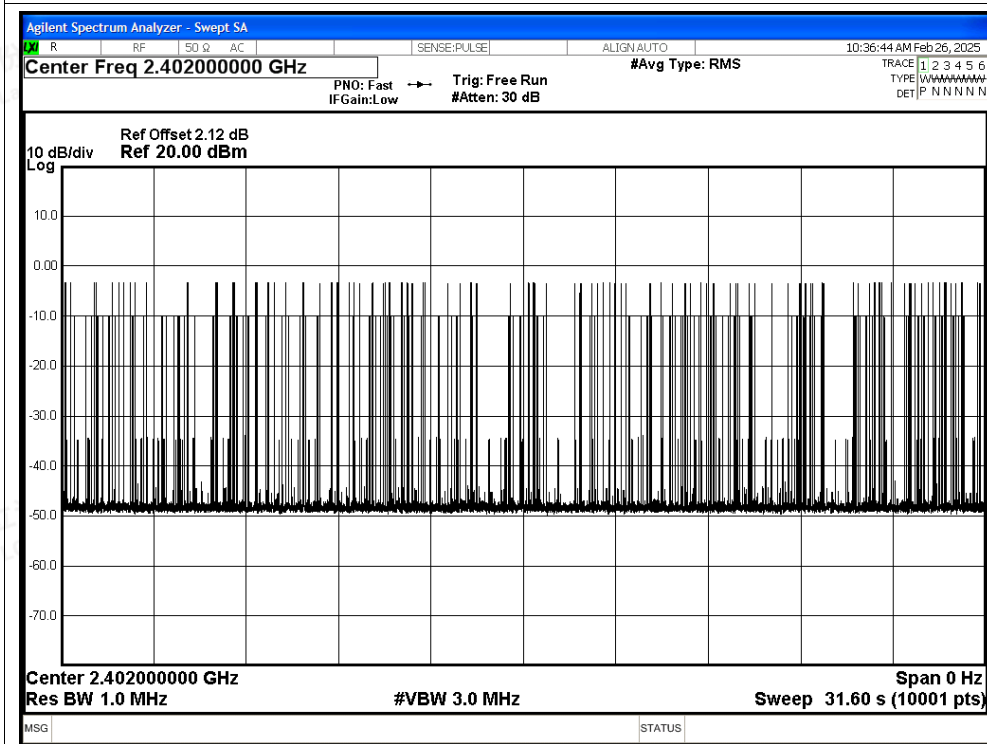
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

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

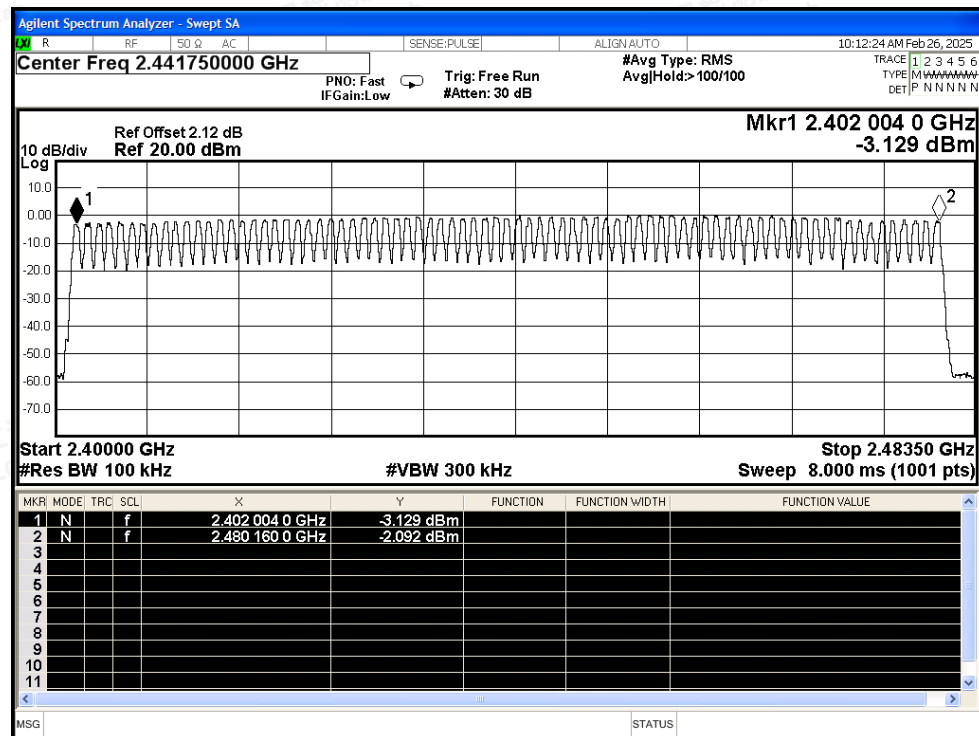


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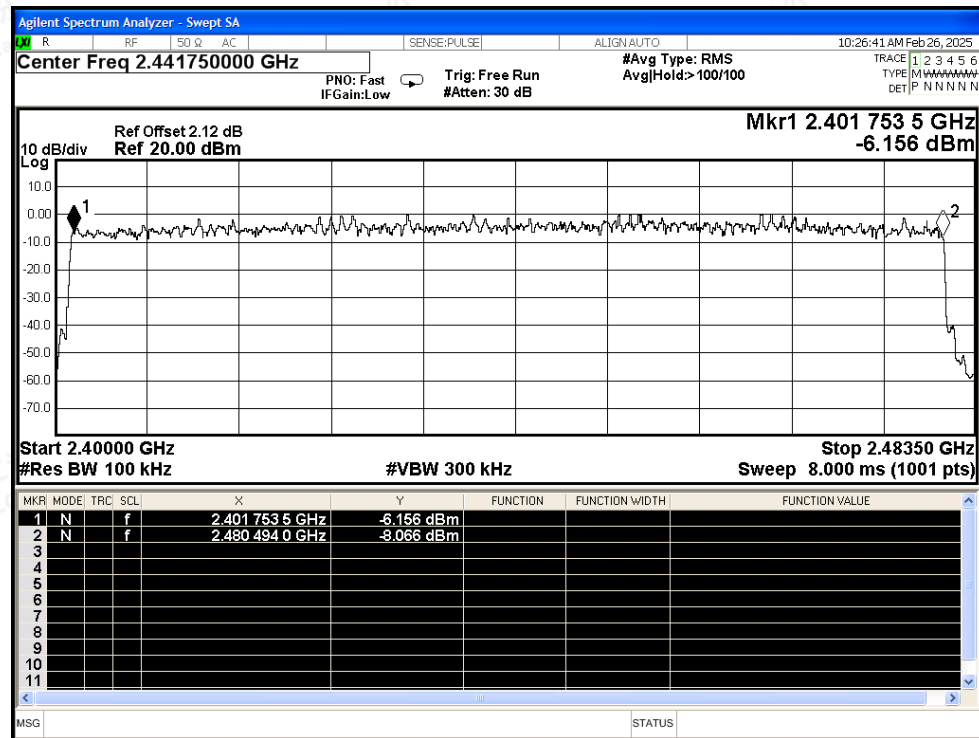


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

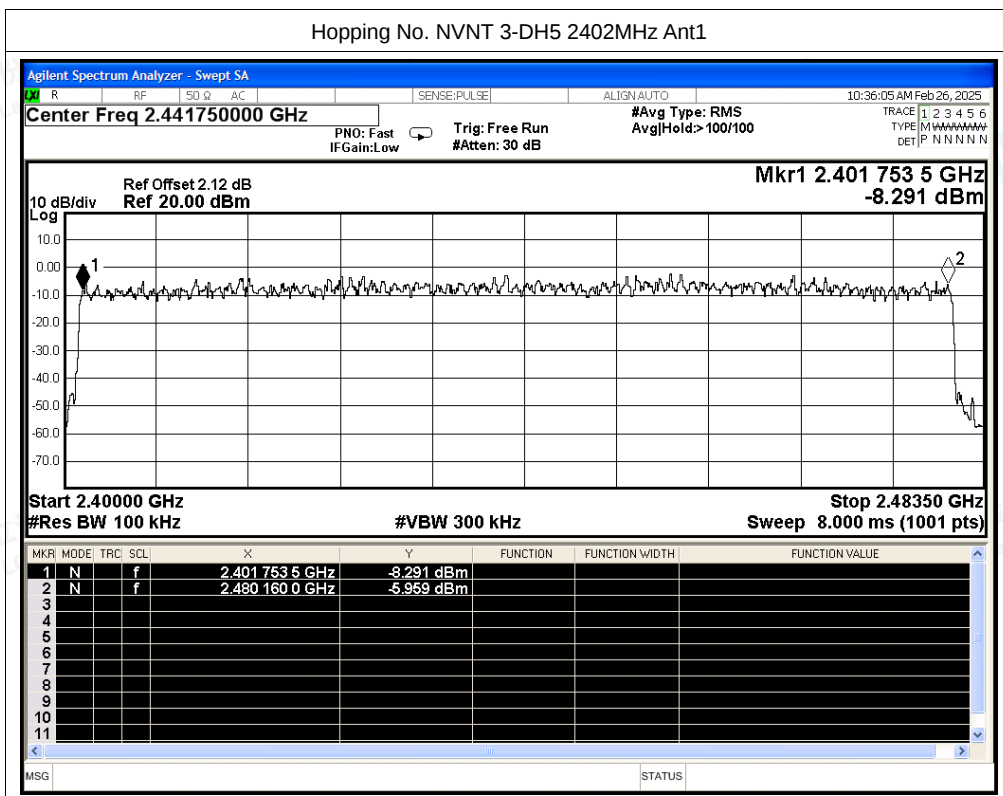


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.74	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.15	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-48.41	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.39	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-48.61	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-52.81	-20	Pass

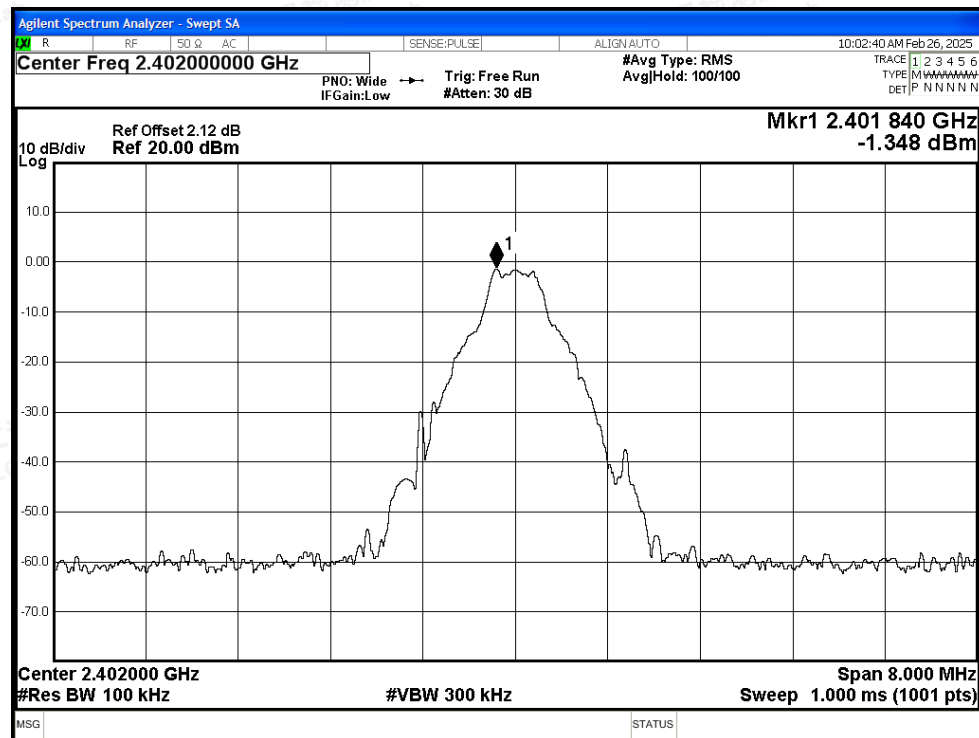


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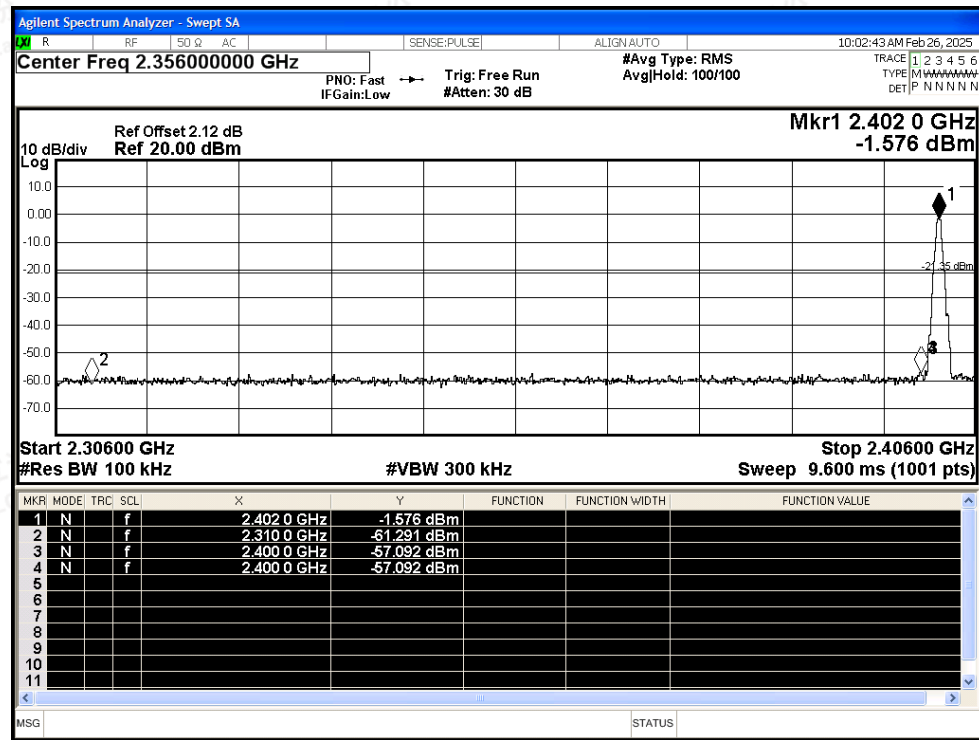


Test Graphs

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



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



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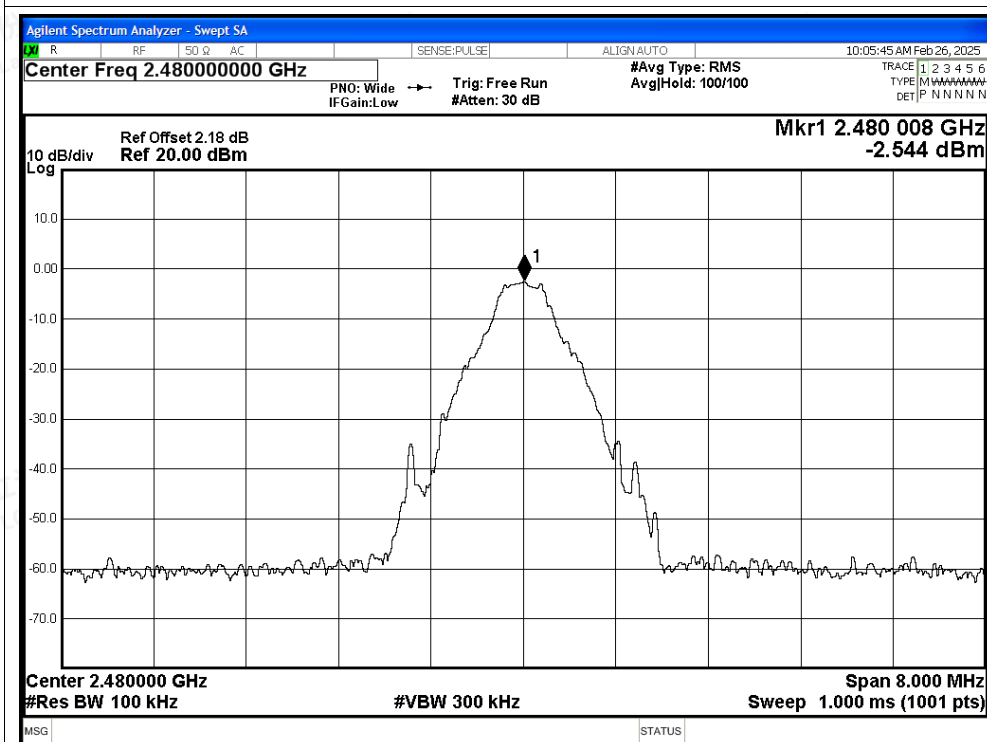
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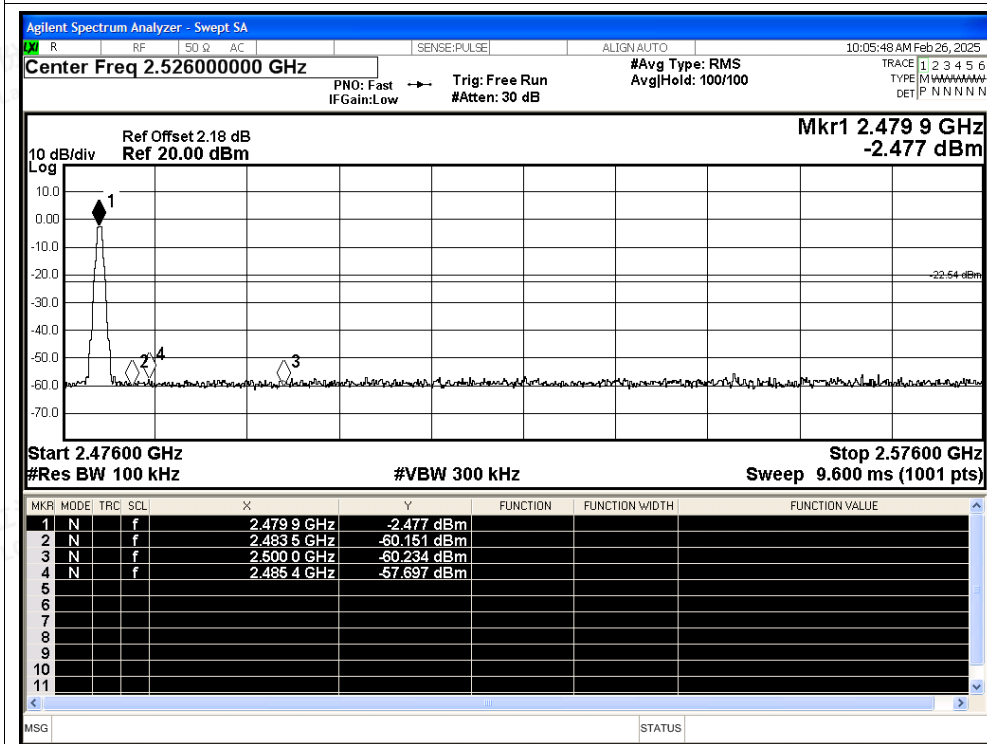
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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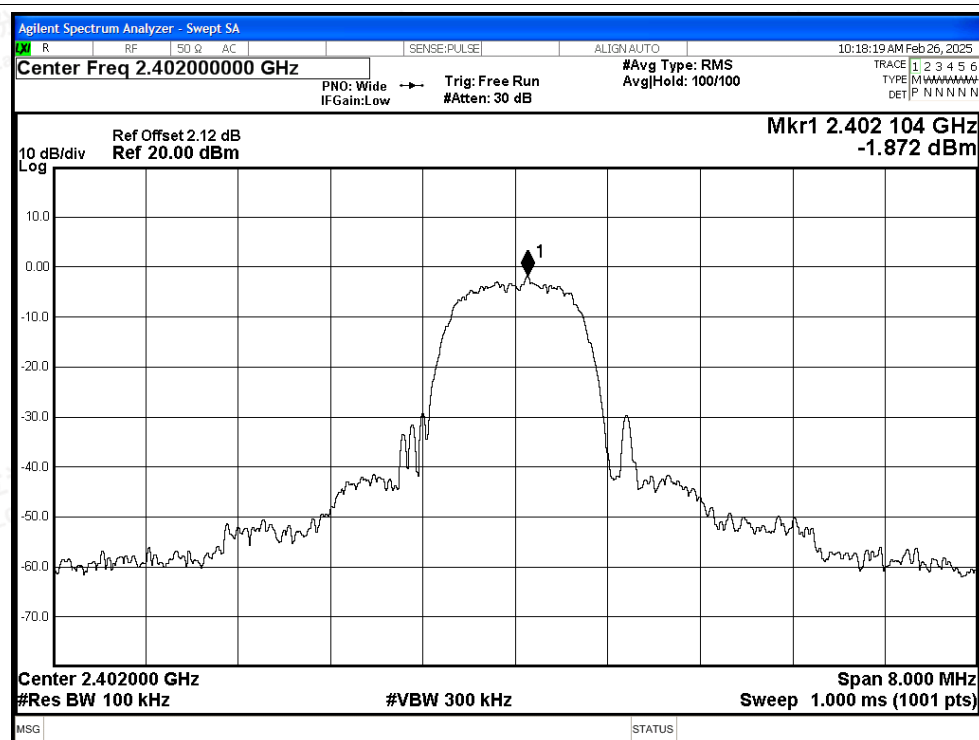
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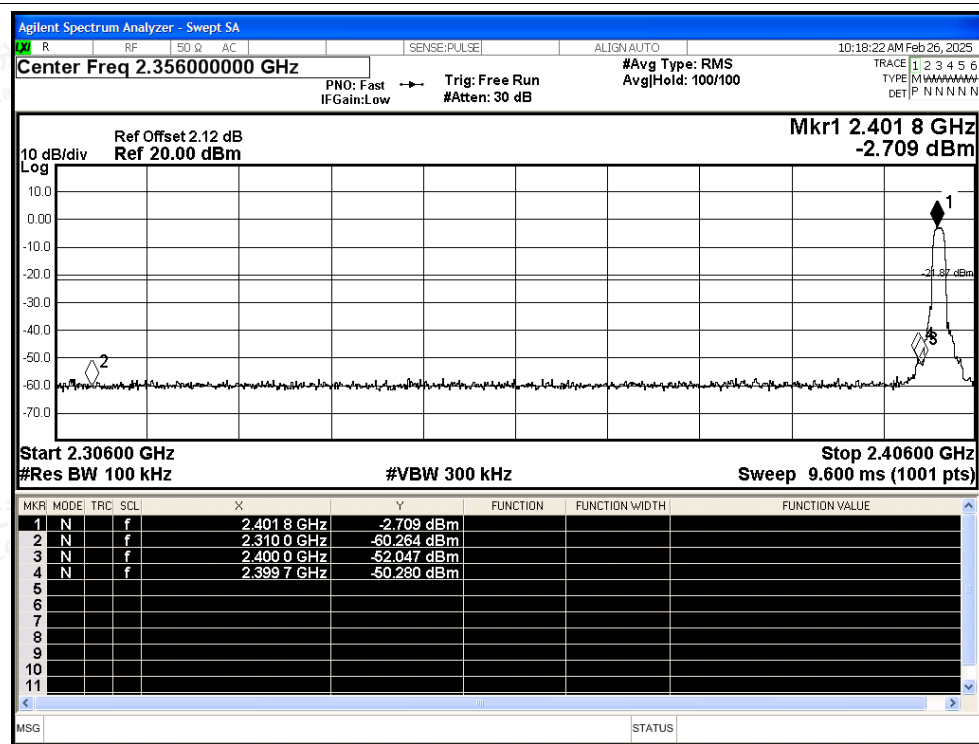
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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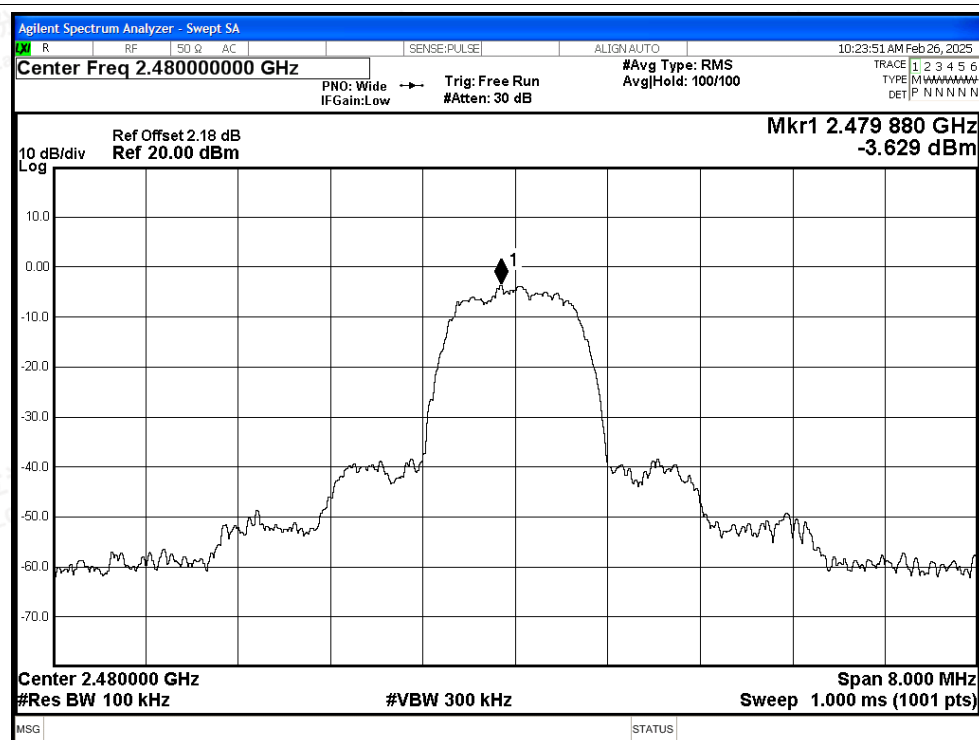
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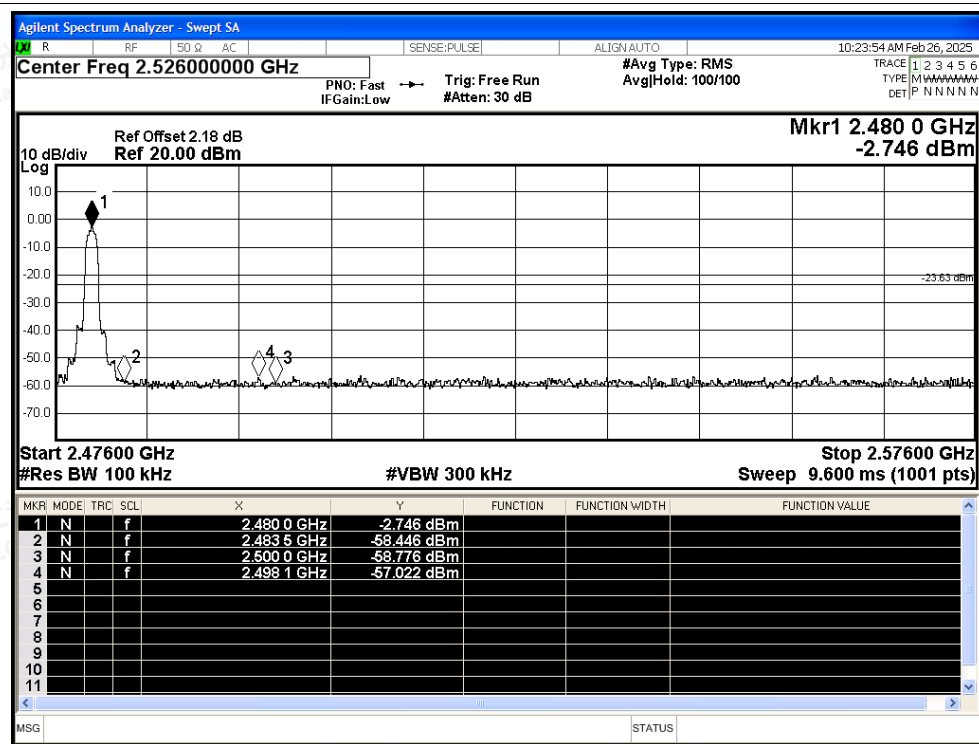
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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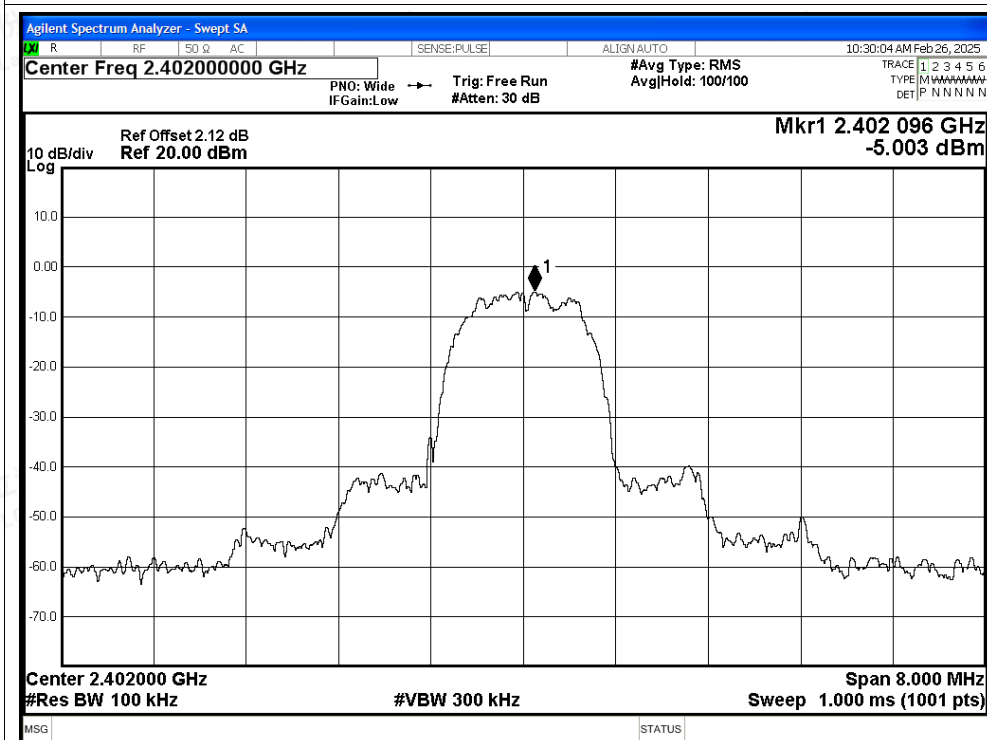
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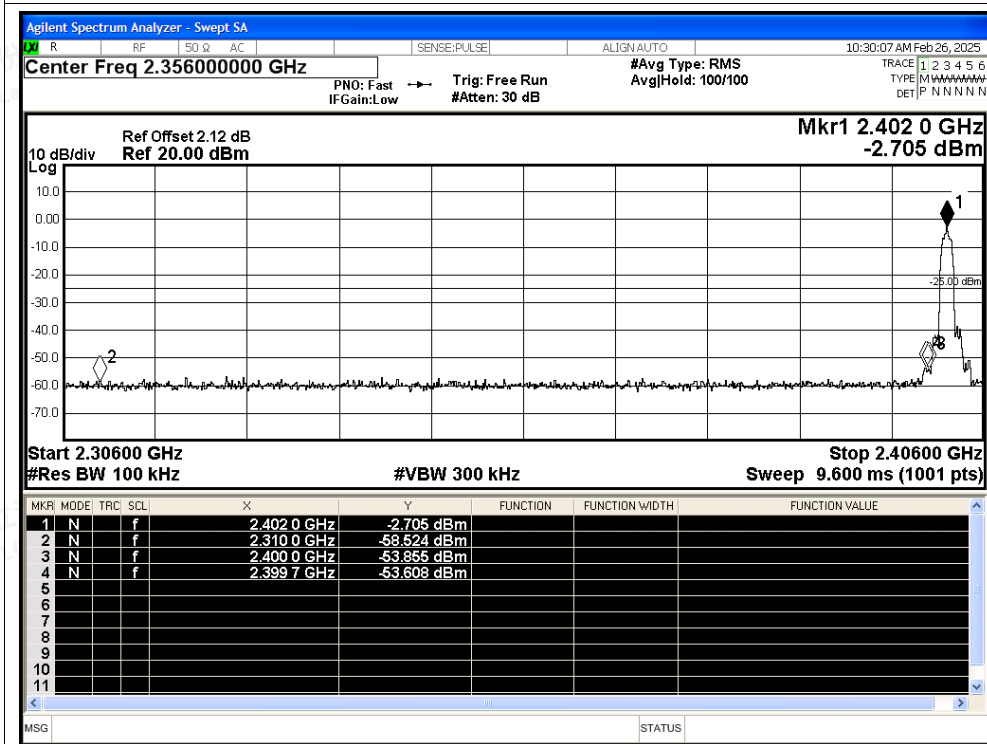
Scan code to check authenticity



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



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

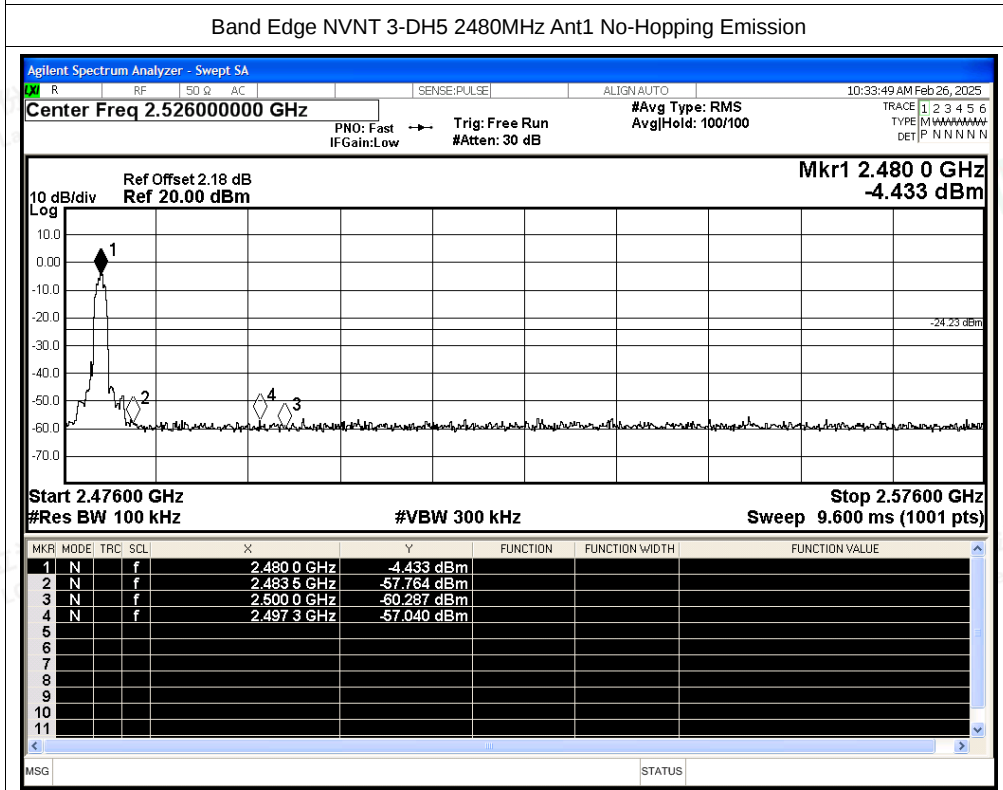
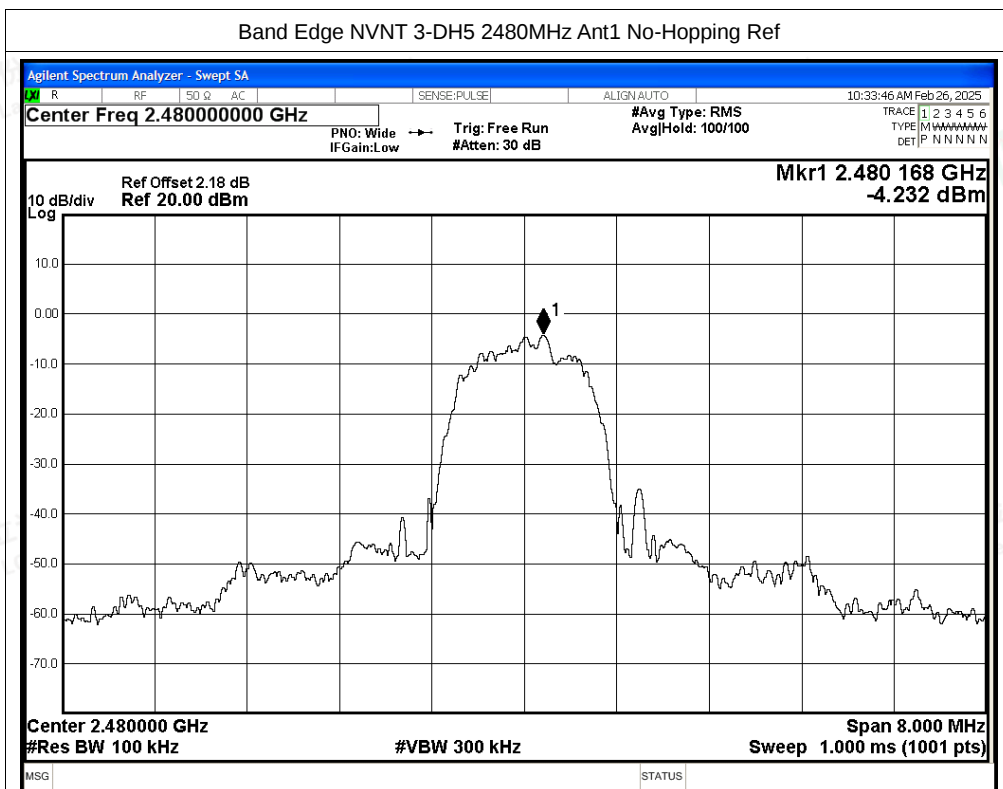


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(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.14	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.8	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.43	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.56	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-50.92	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-50.58	-20	Pass

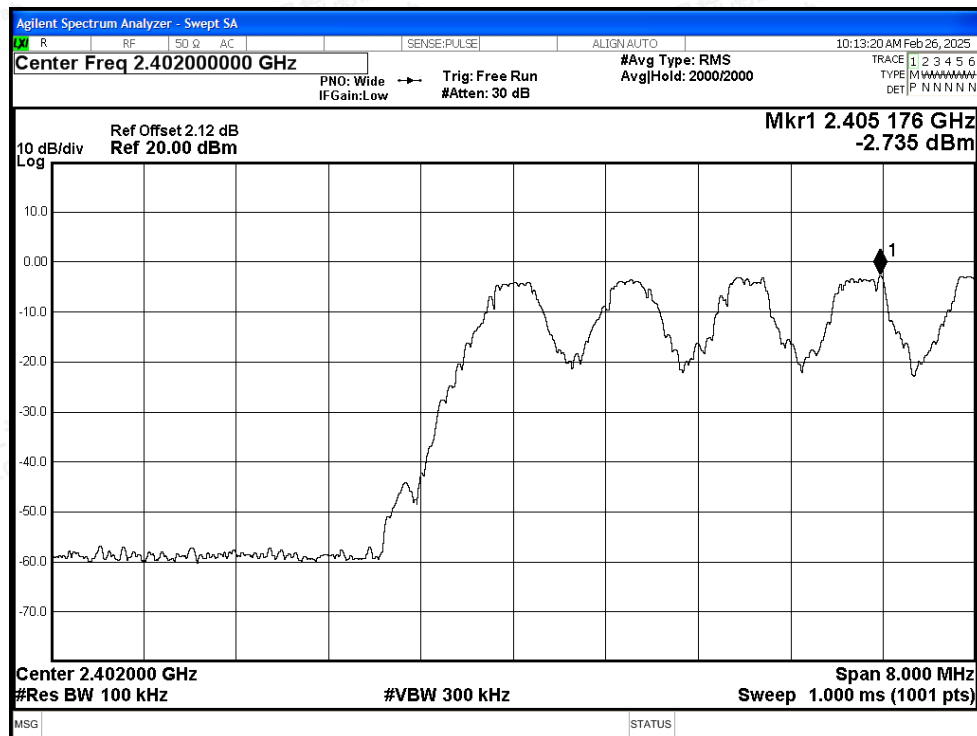


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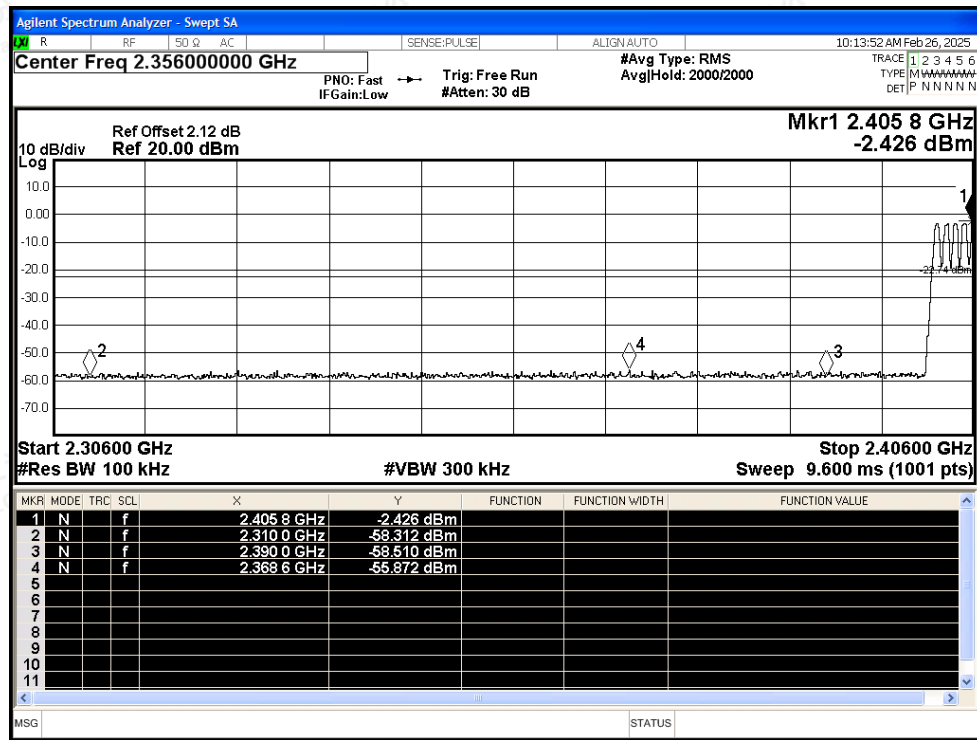


Test Graphs

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



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

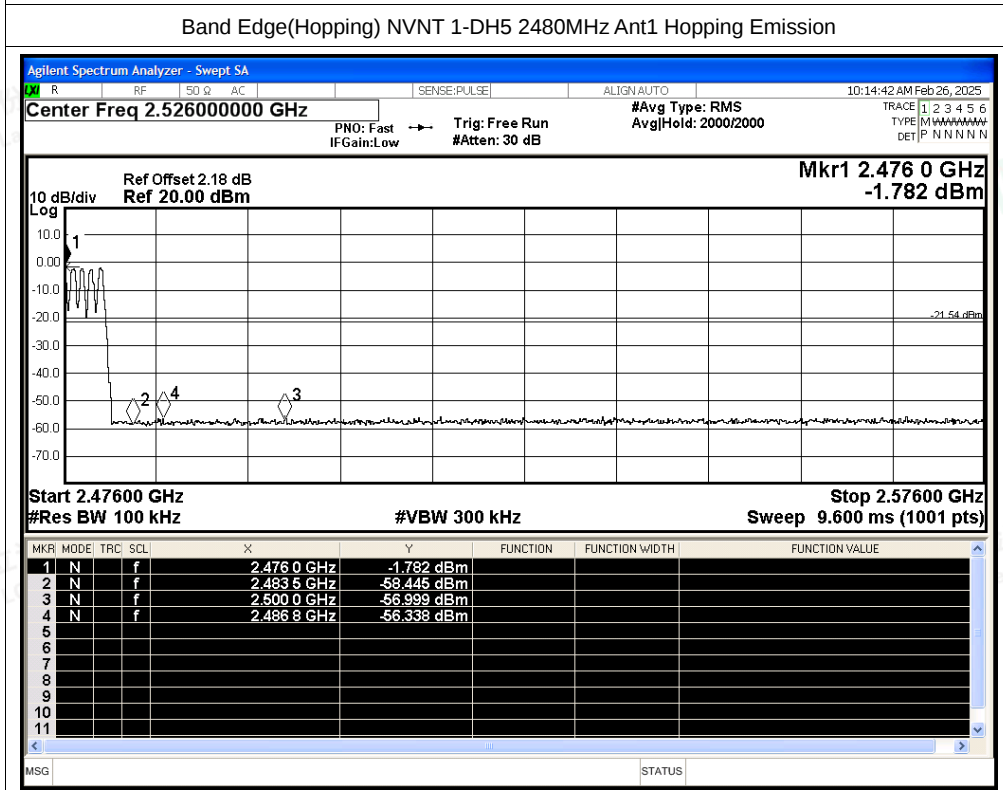
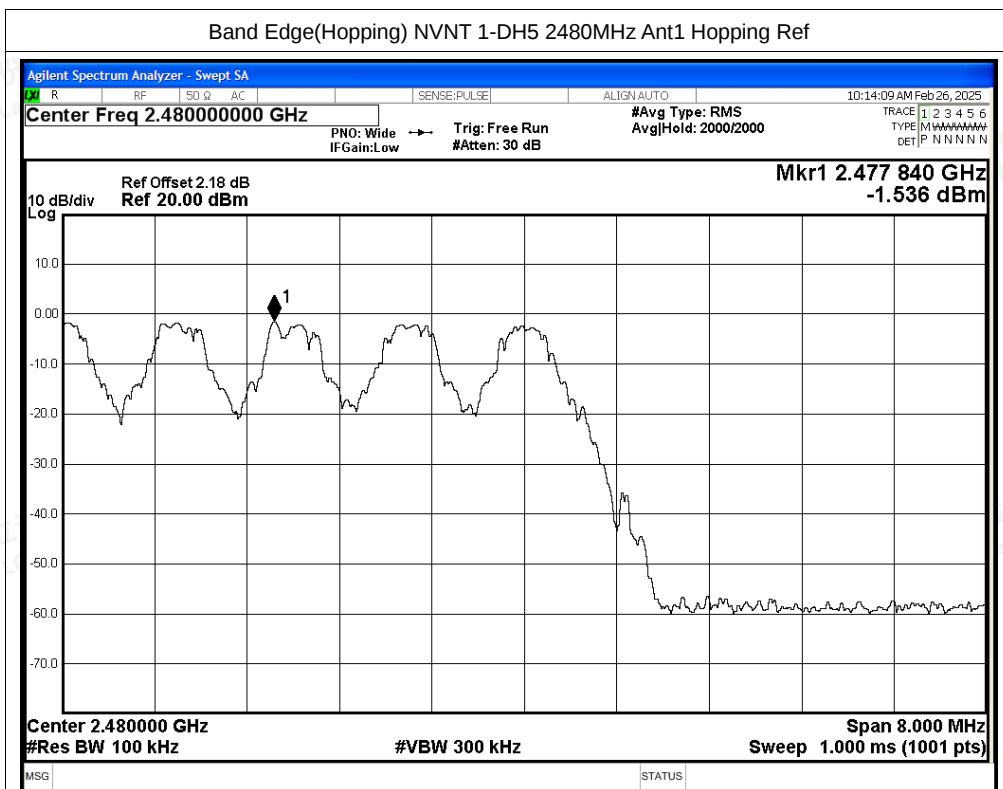


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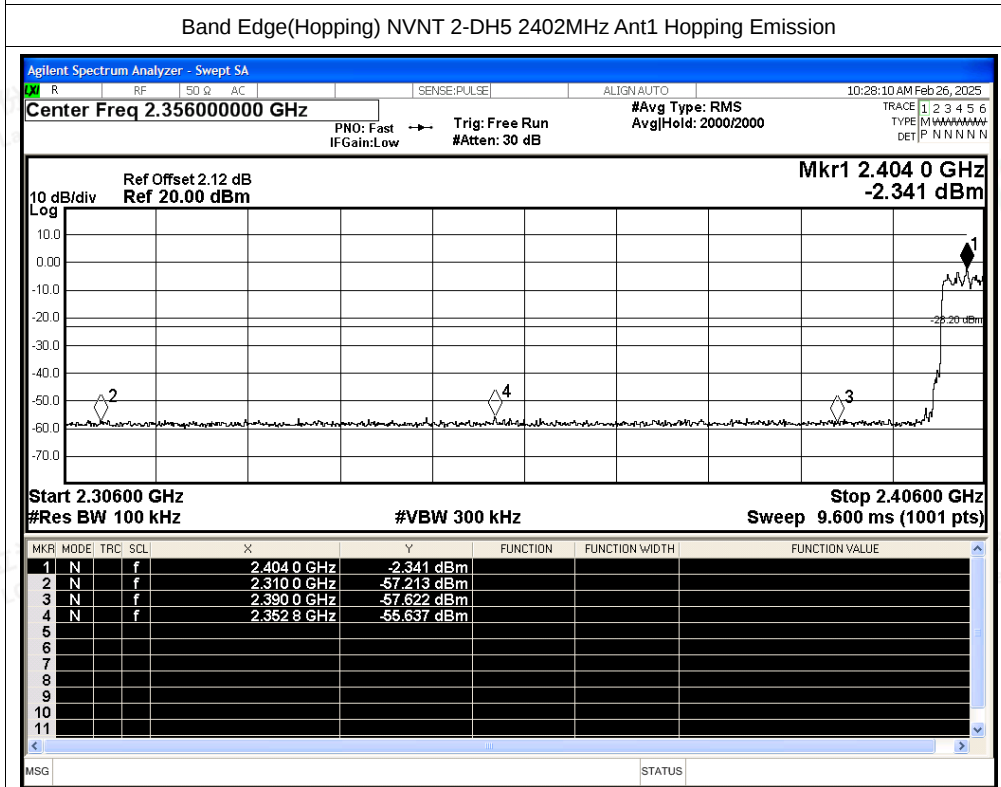
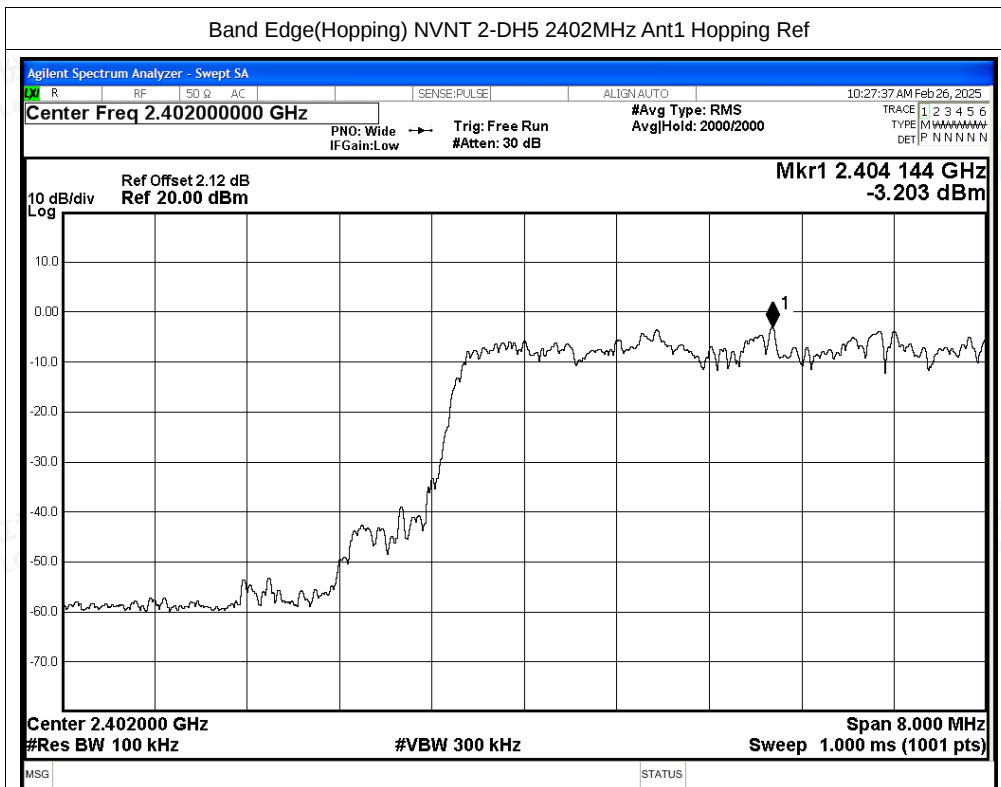


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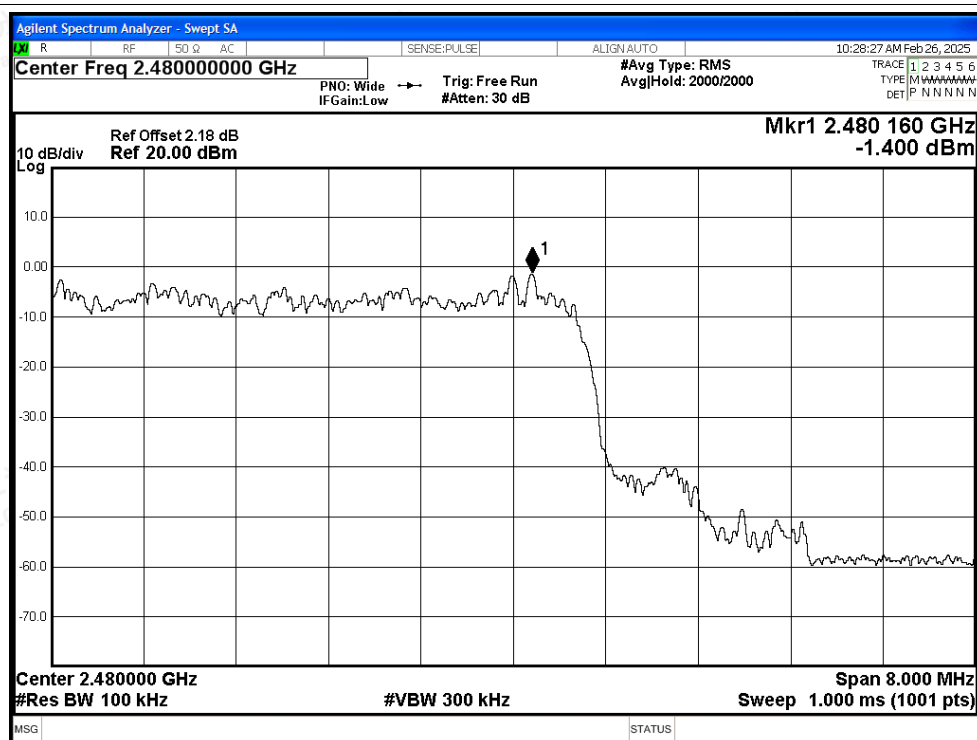
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

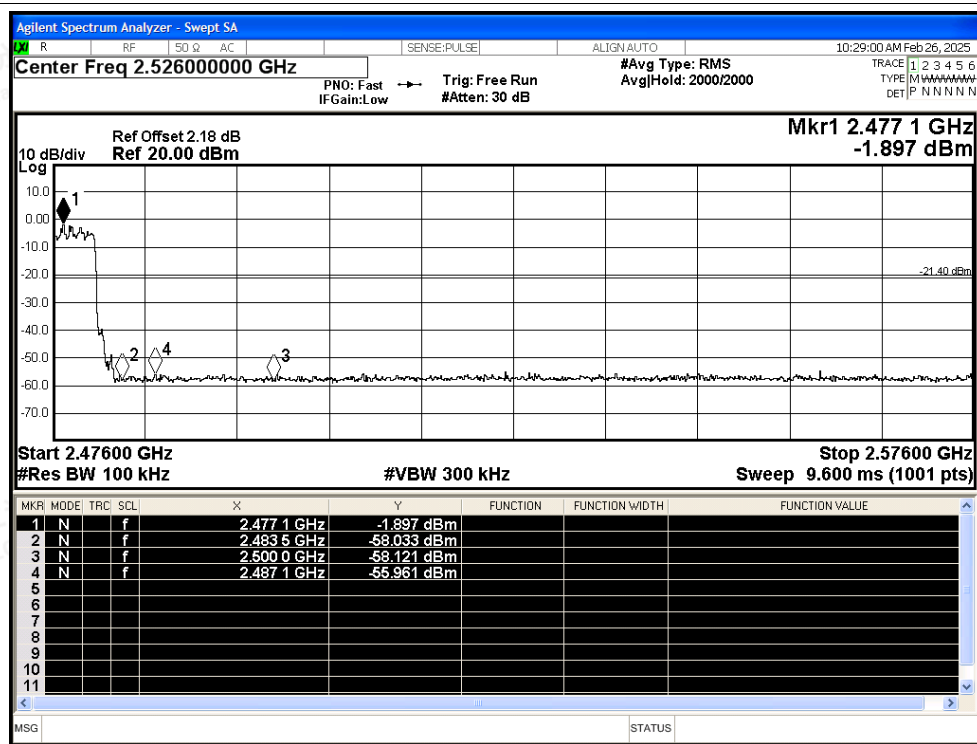
Scan code to check authenticity



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



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

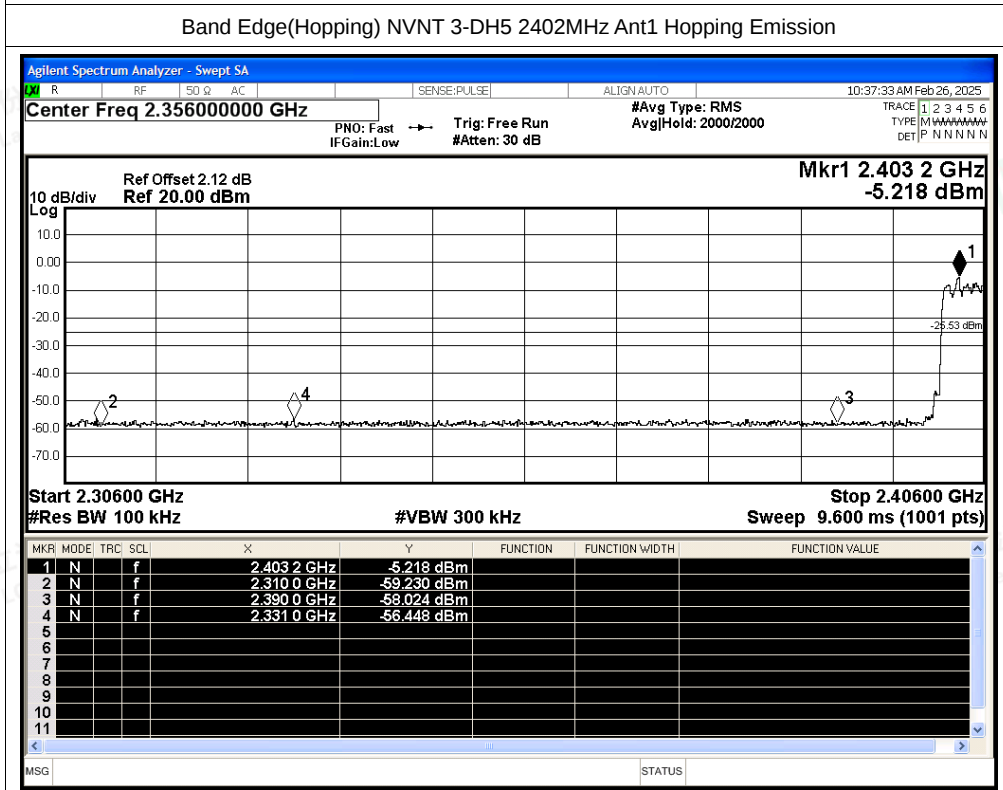
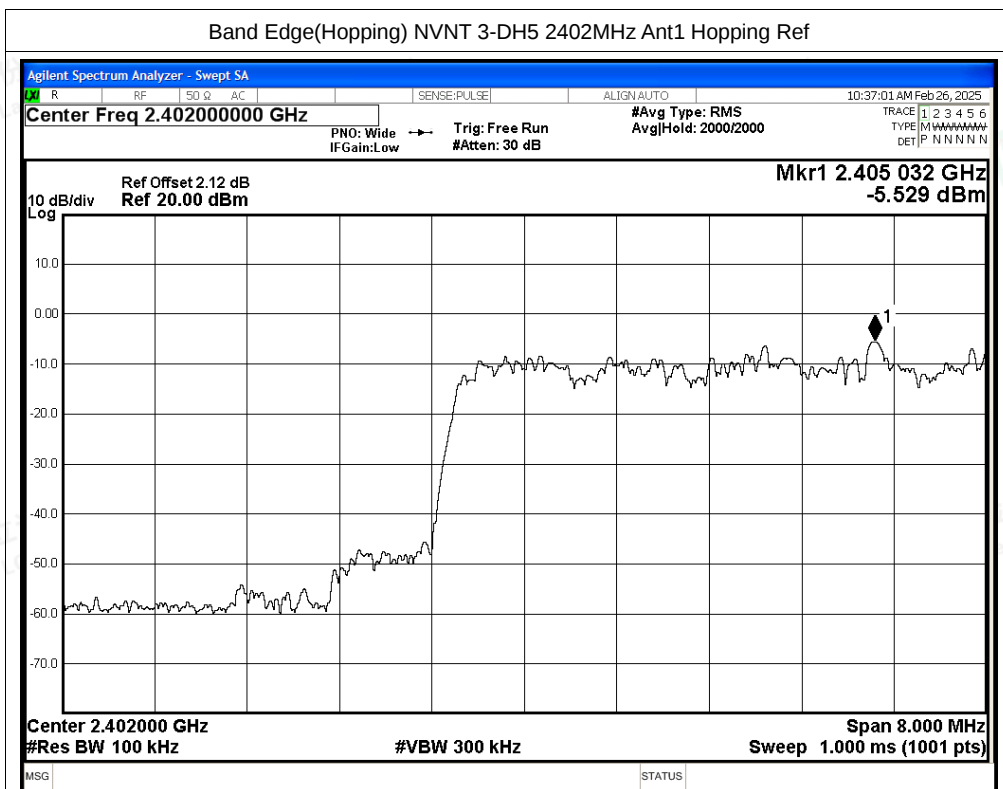


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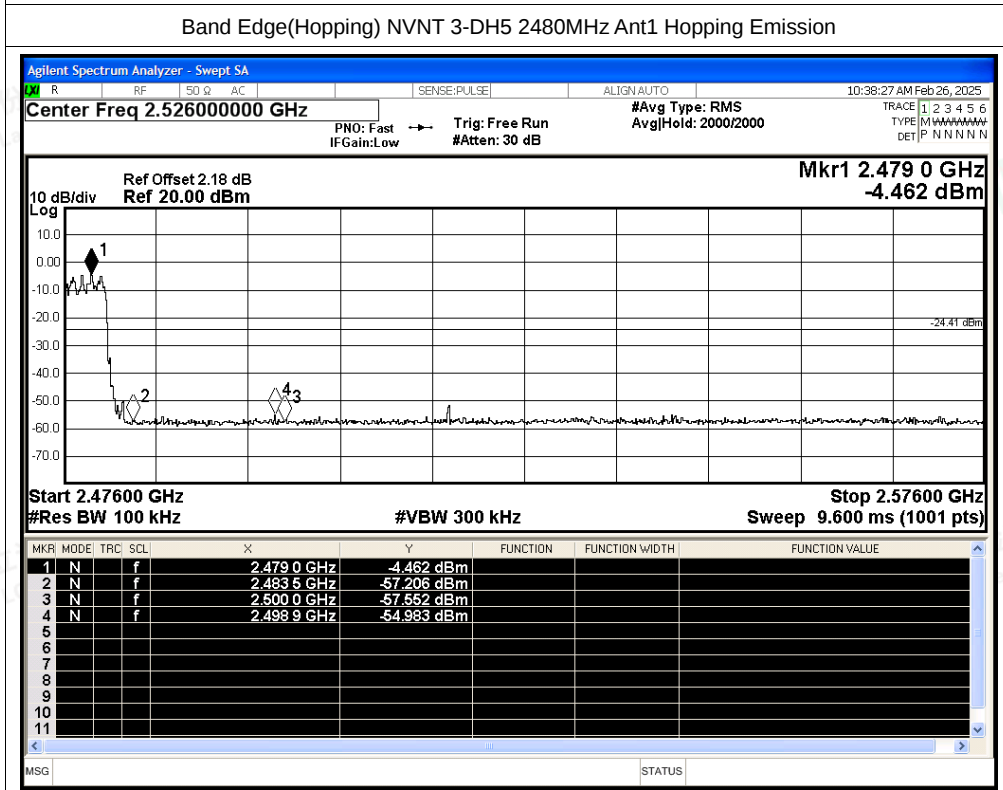
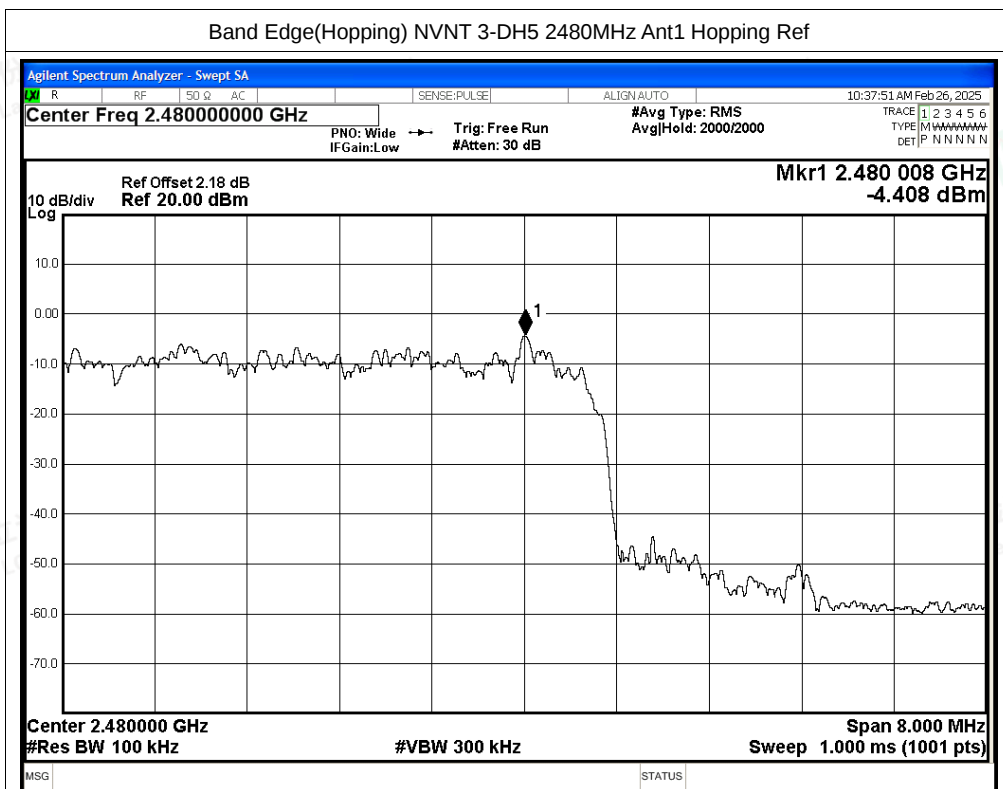


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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-53.36	-20	Pass
NVNT	1-DH5	2441	Ant1	-48.92	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.08	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.57	-20	Pass
NVNT	2-DH5	2441	Ant1	-49.87	-20	Pass
NVNT	2-DH5	2480	Ant1	-50.99	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.99	-20	Pass
NVNT	3-DH5	2441	Ant1	-51.85	-20	Pass
NVNT	3-DH5	2480	Ant1	-50.4	-20	Pass

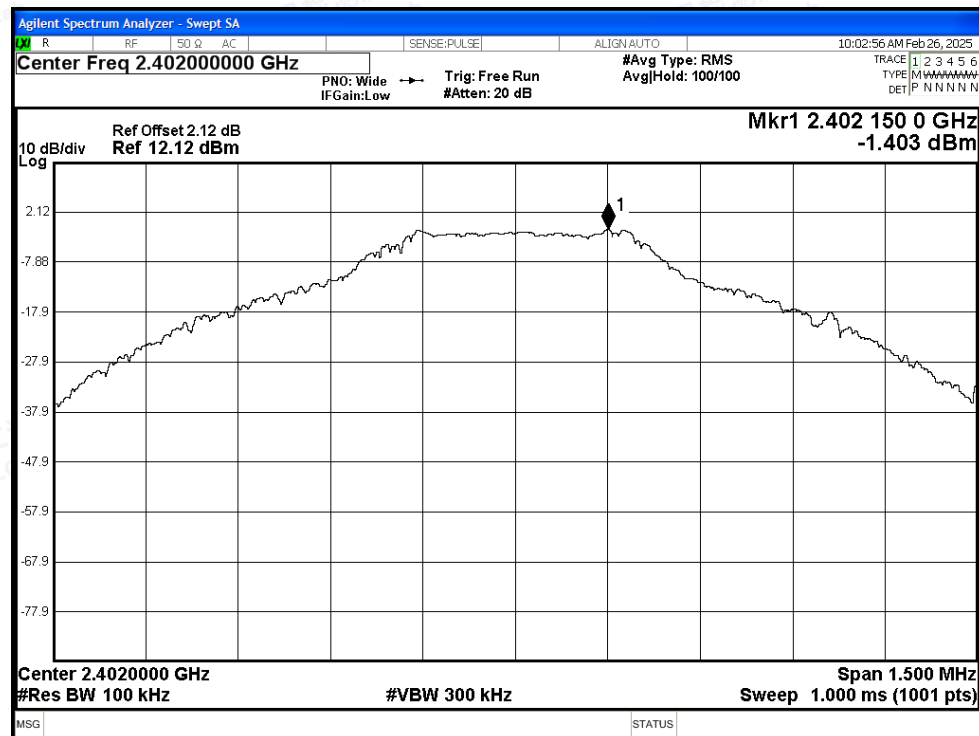


Shenzhen LCS Compliance Testing Laboratory Ltd.
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

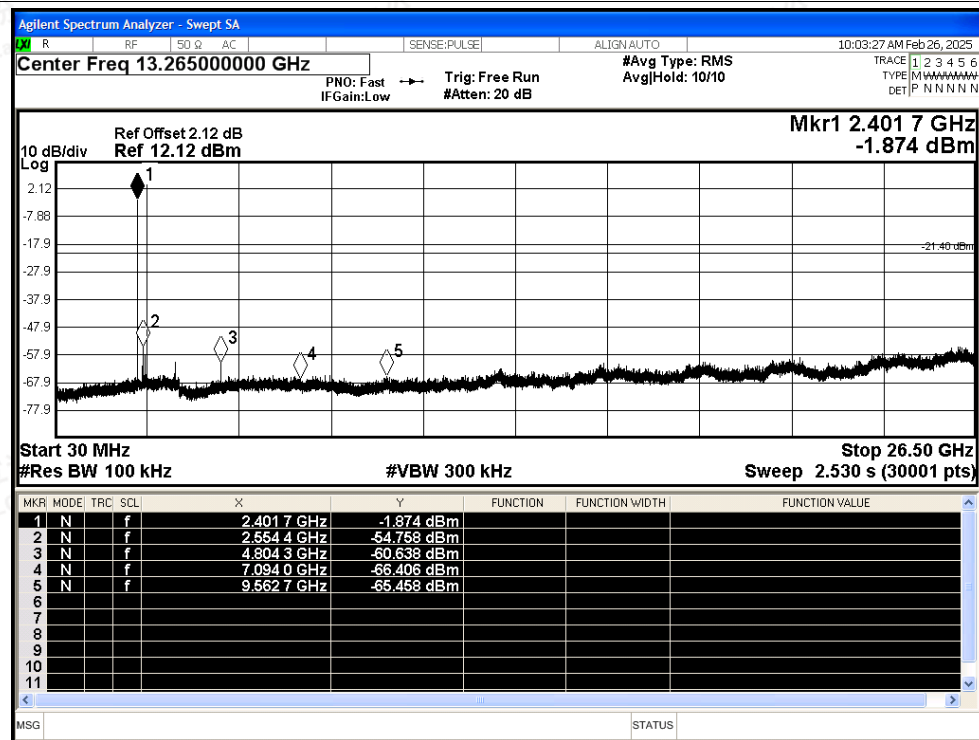


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

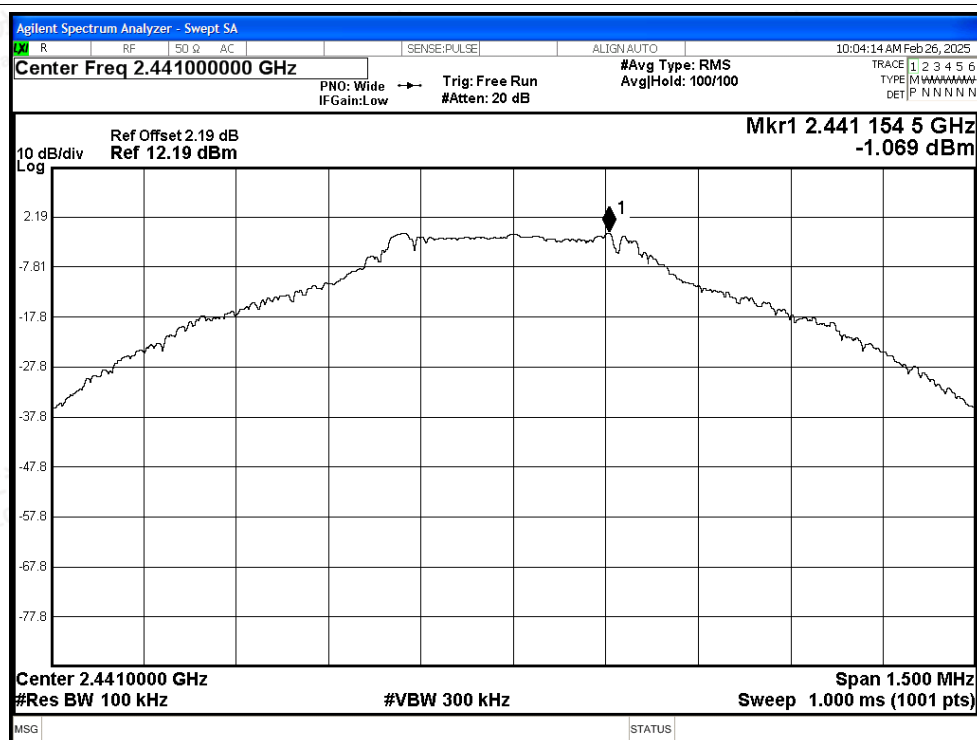
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

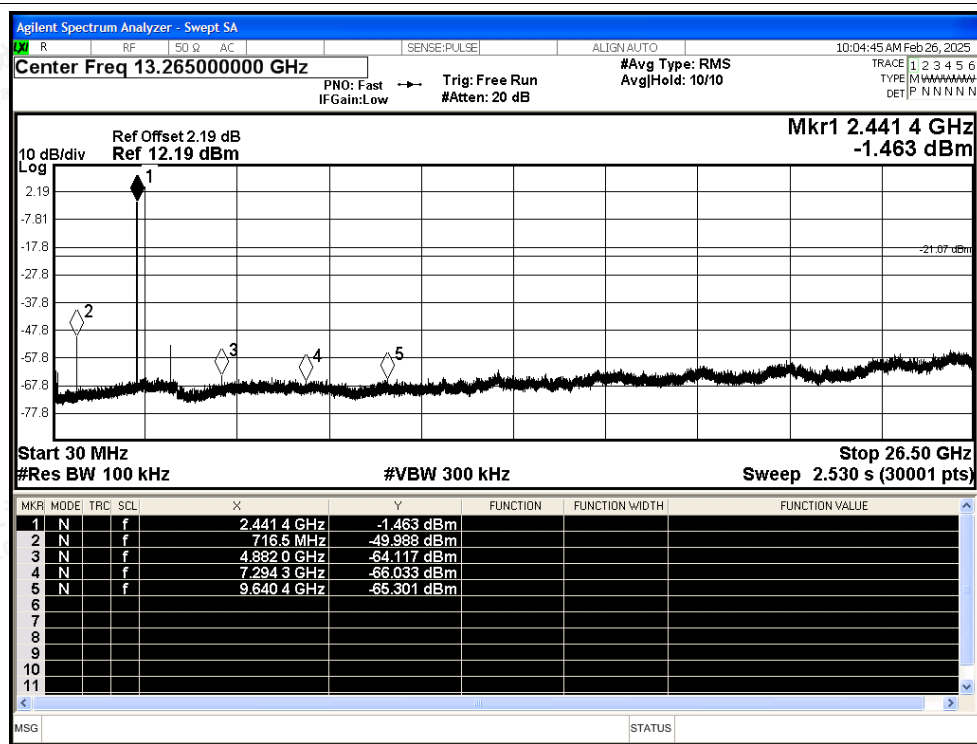
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

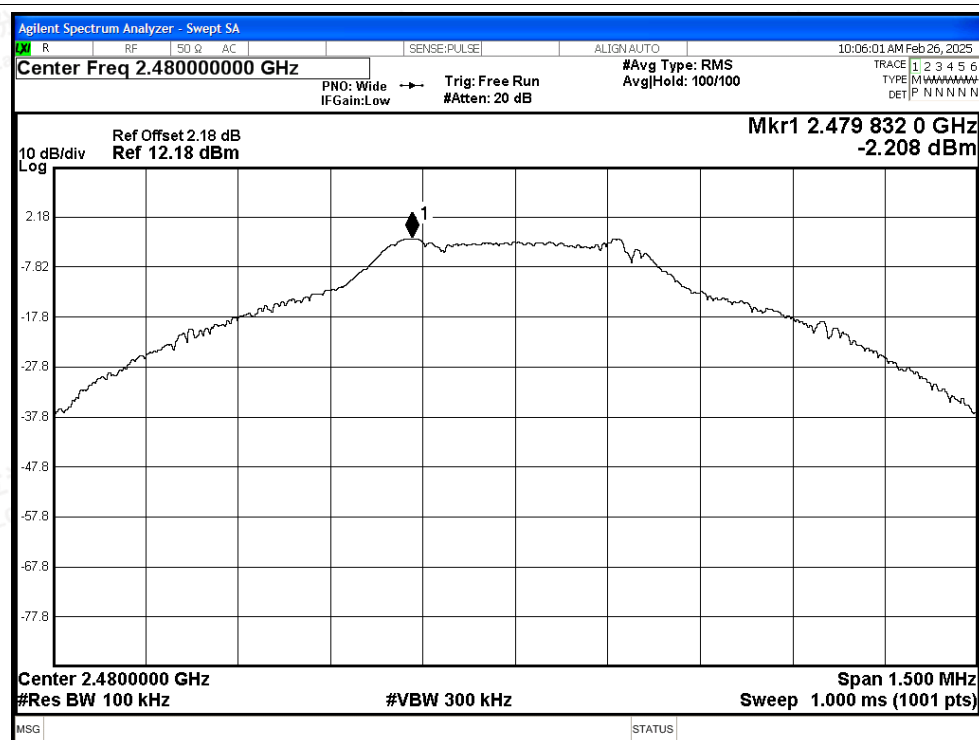
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

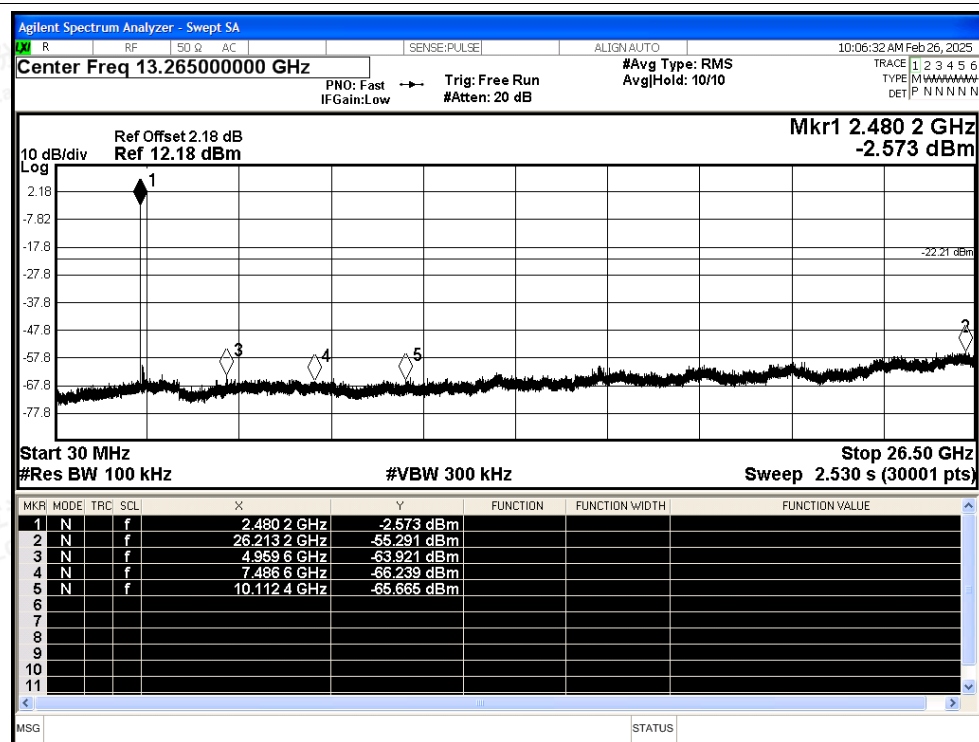
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

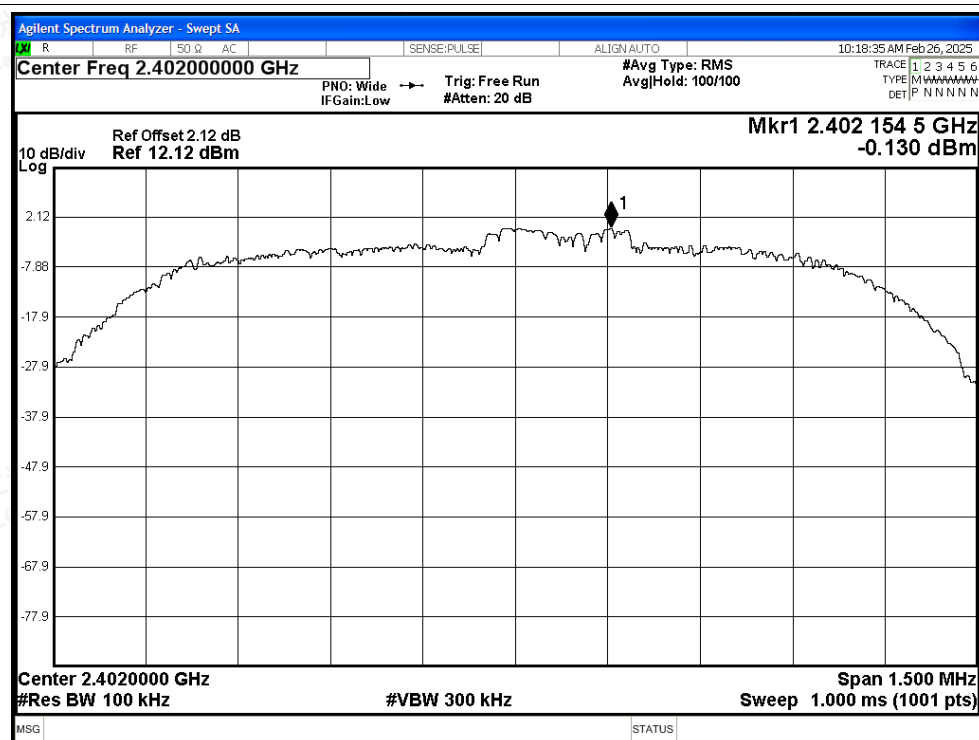
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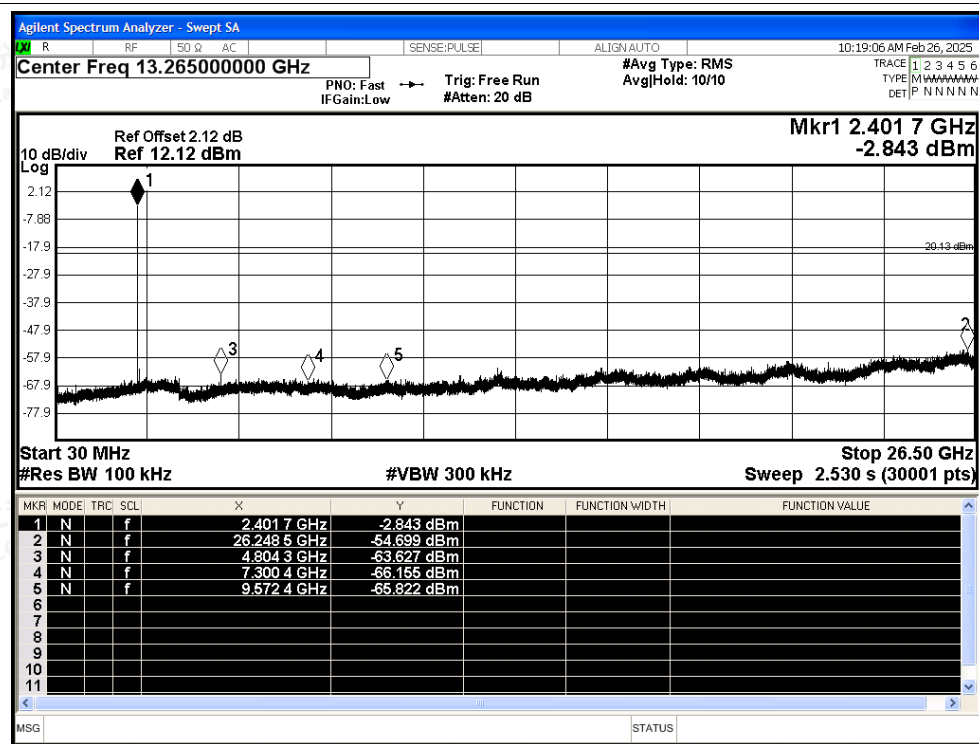
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

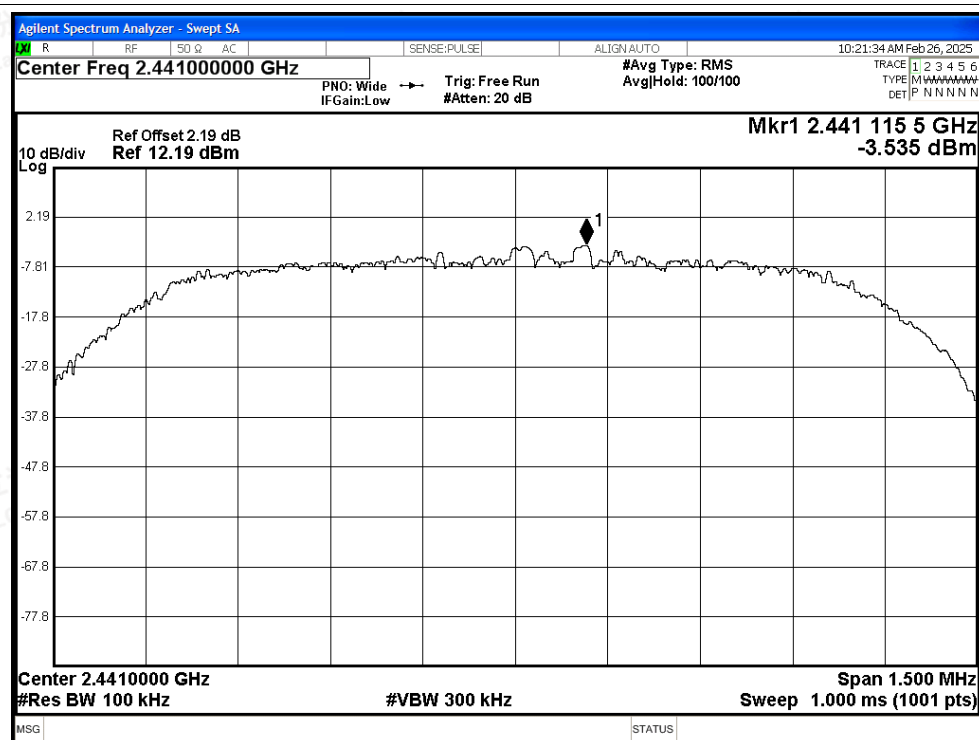
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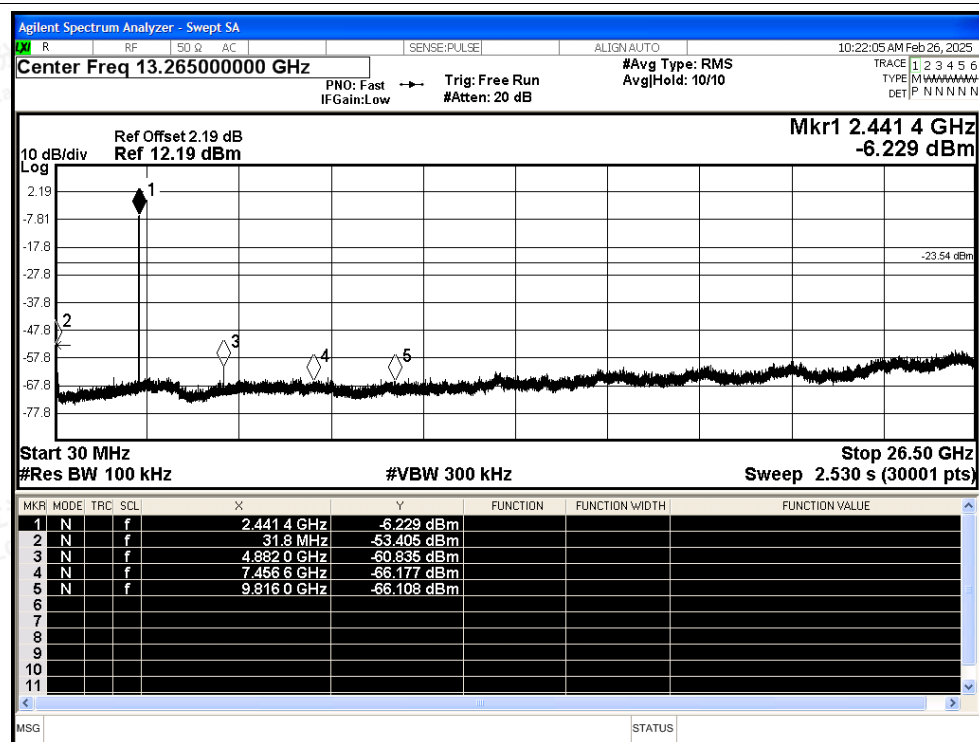
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

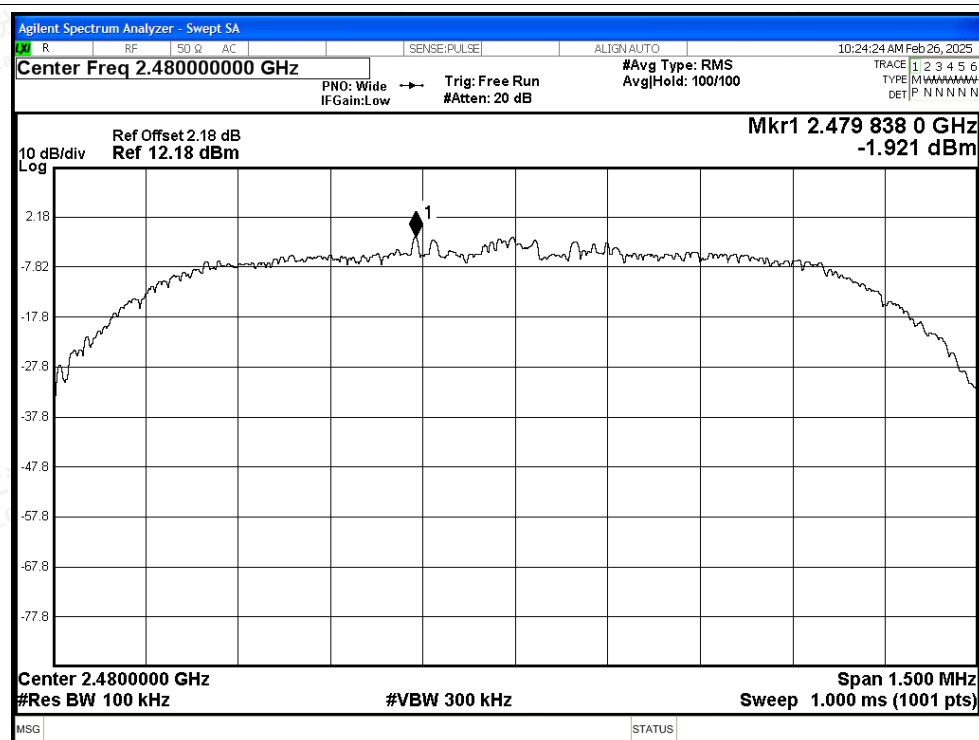
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

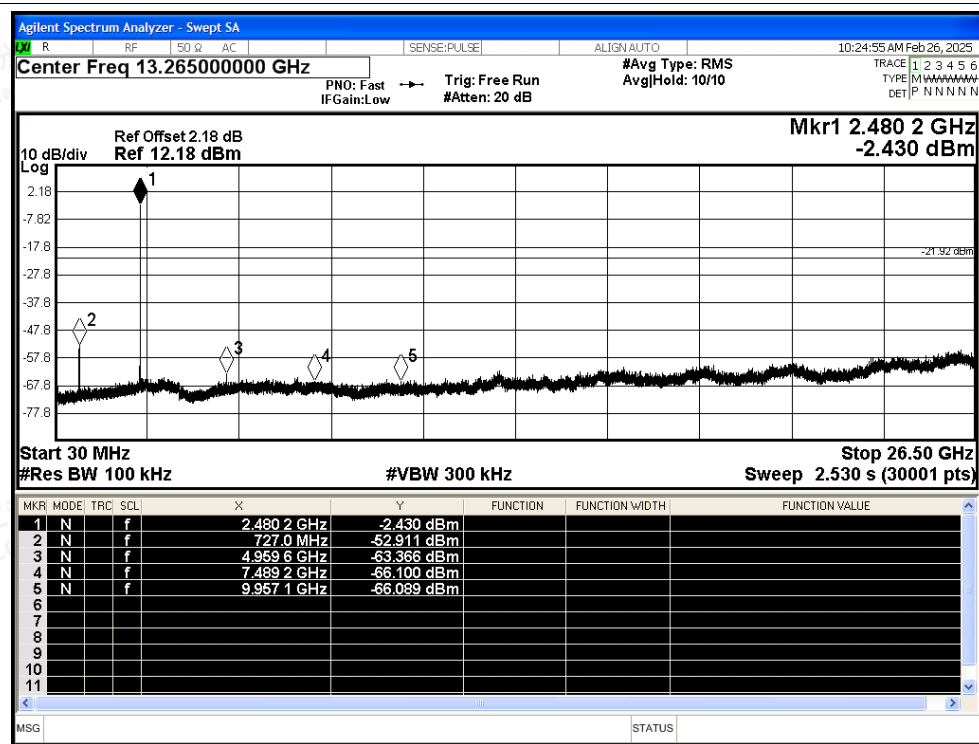
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

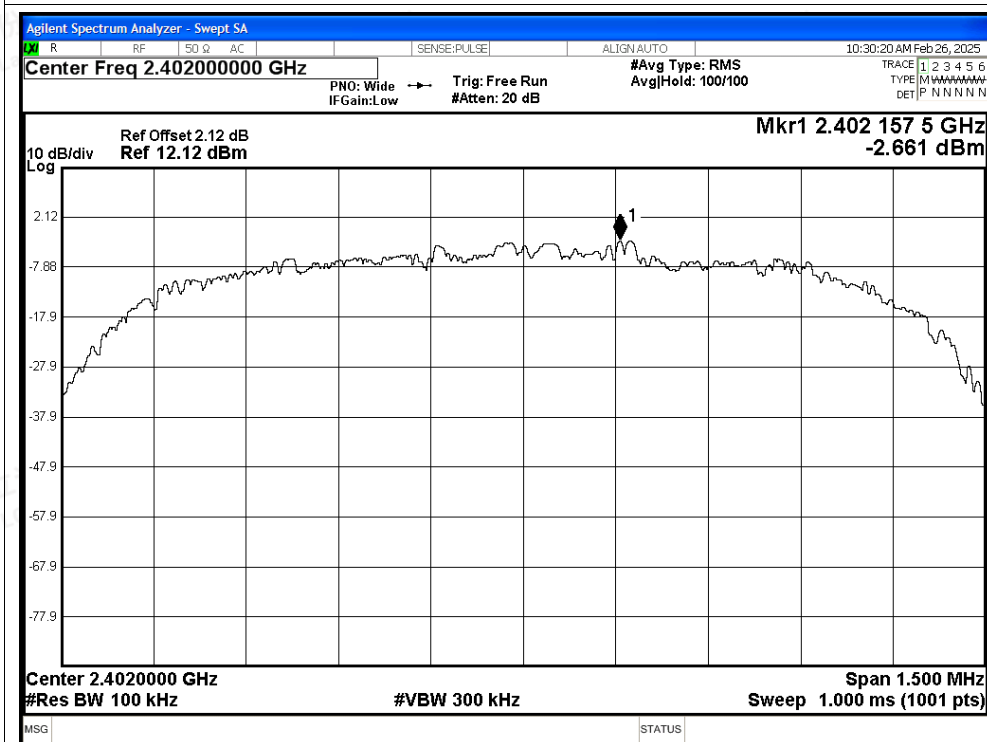
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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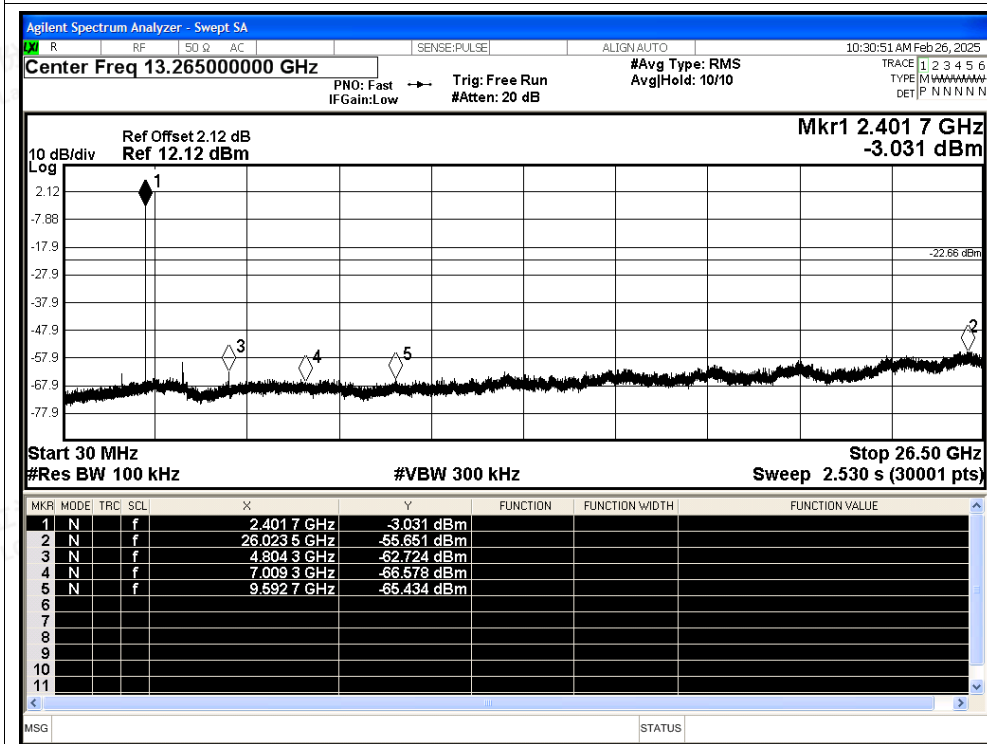
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



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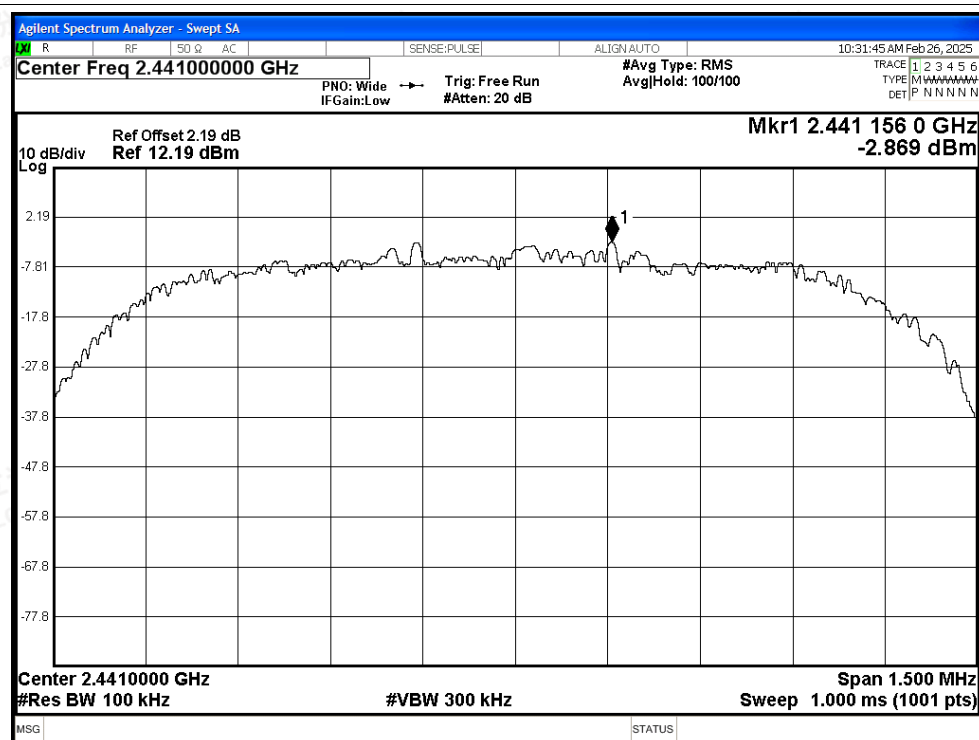
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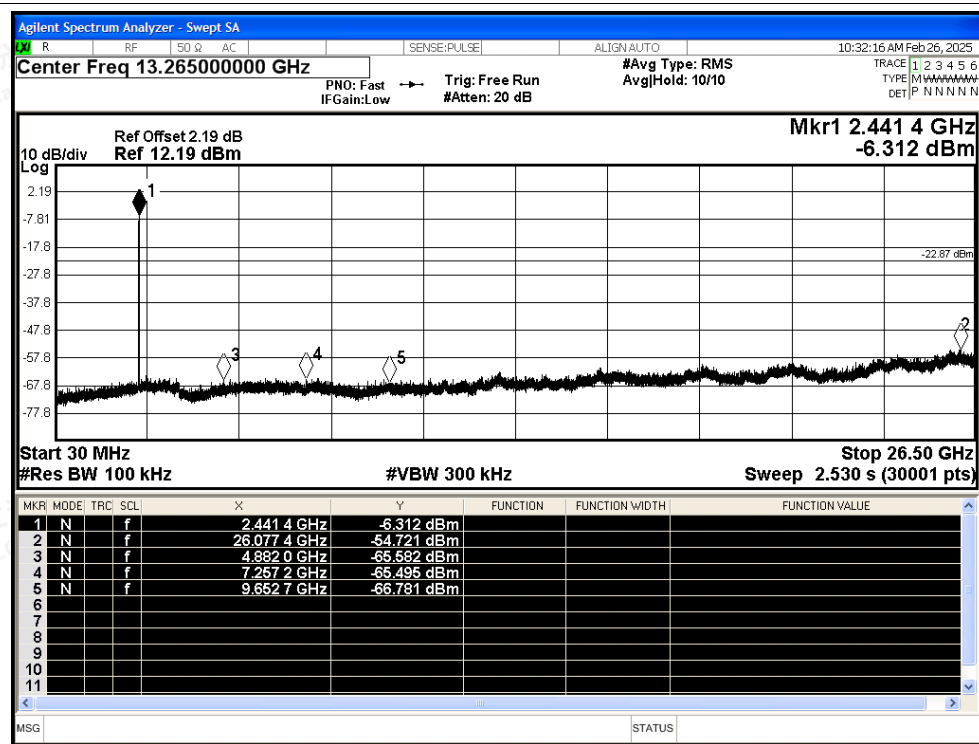
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



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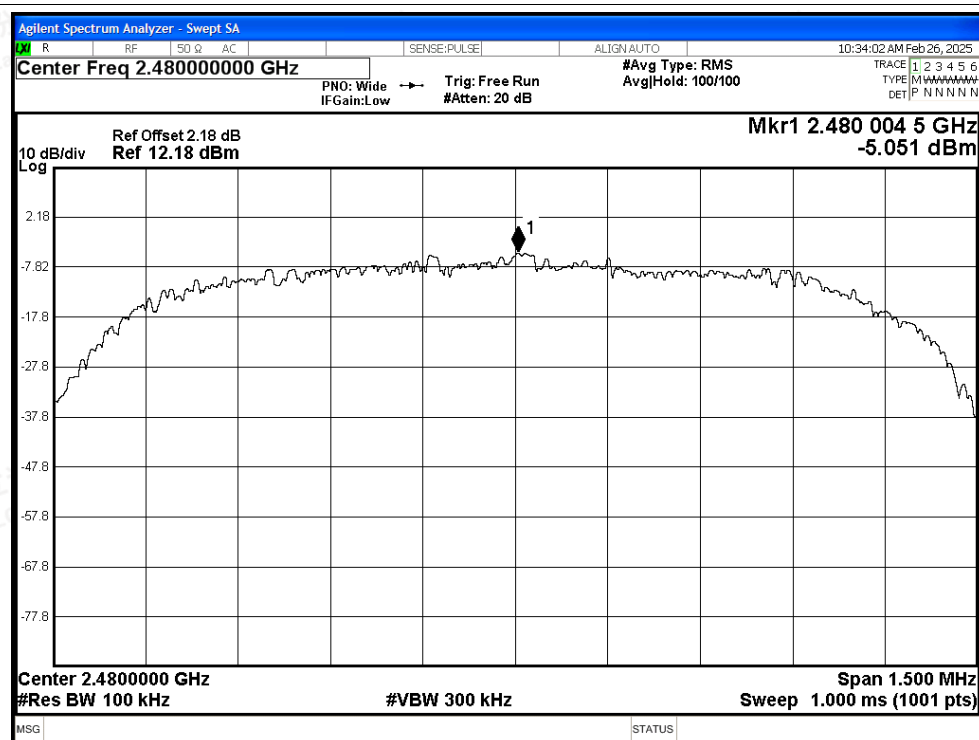
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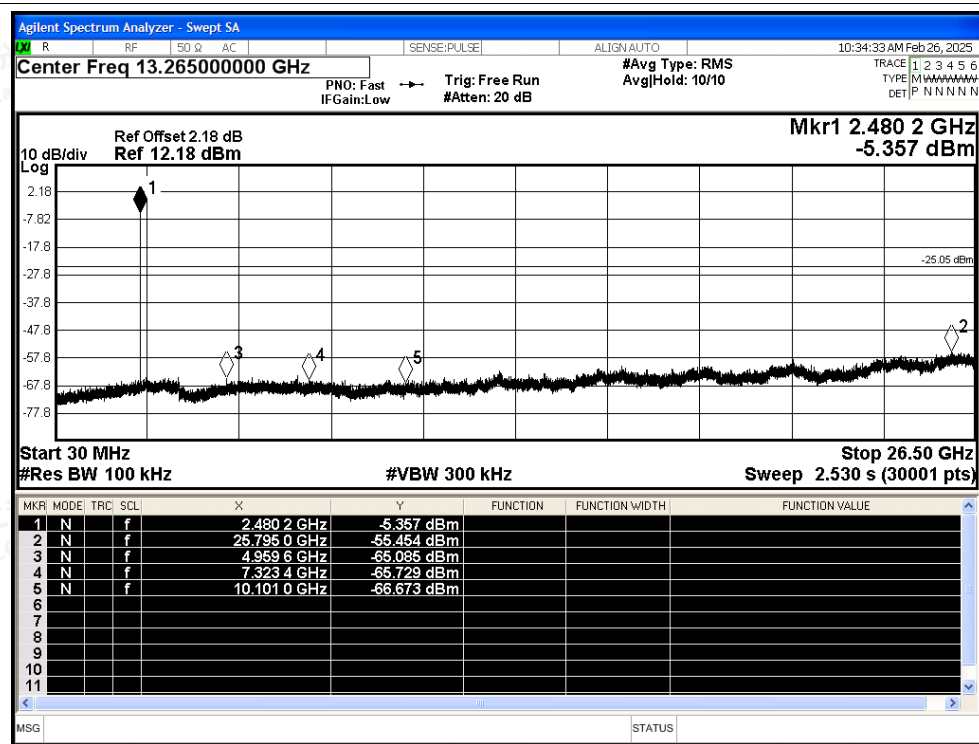
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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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	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.33	1.12	0.34
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	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35

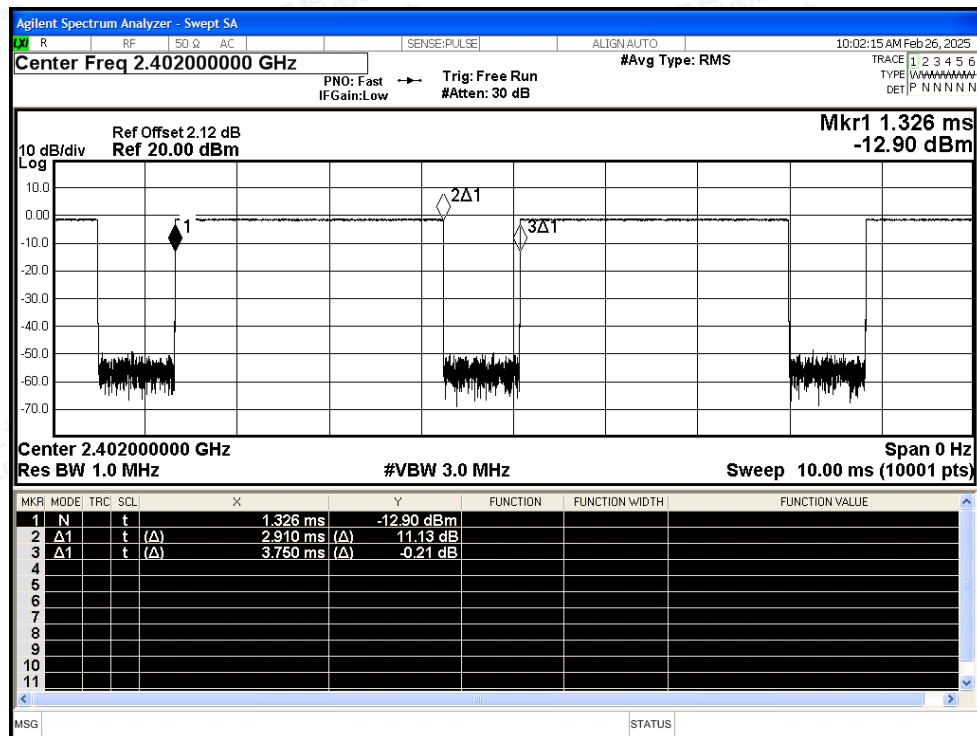


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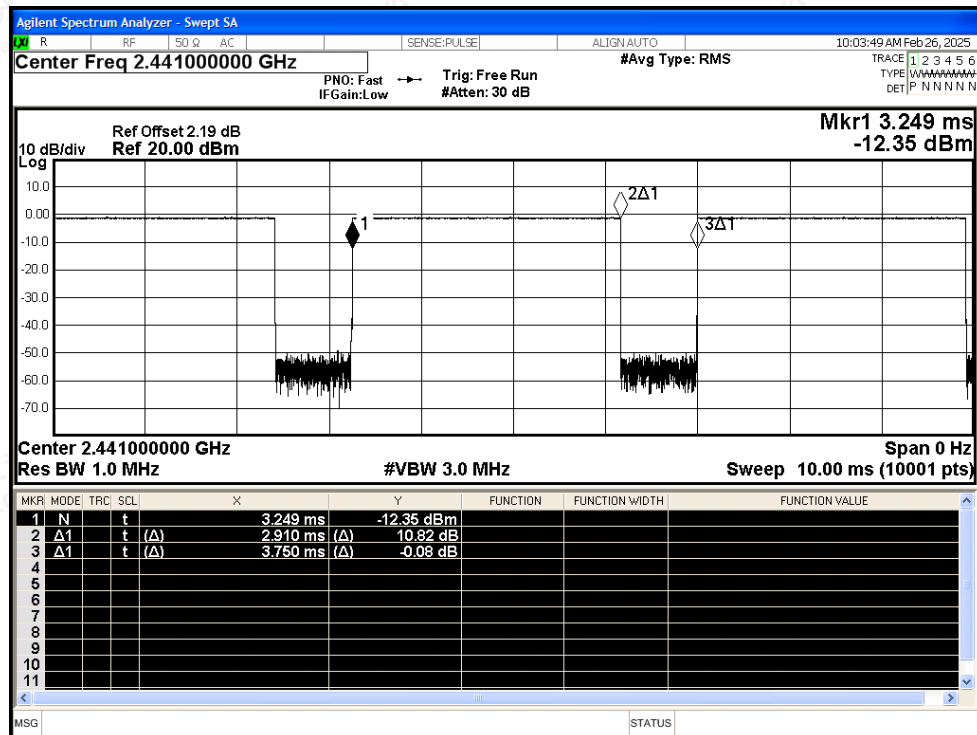


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

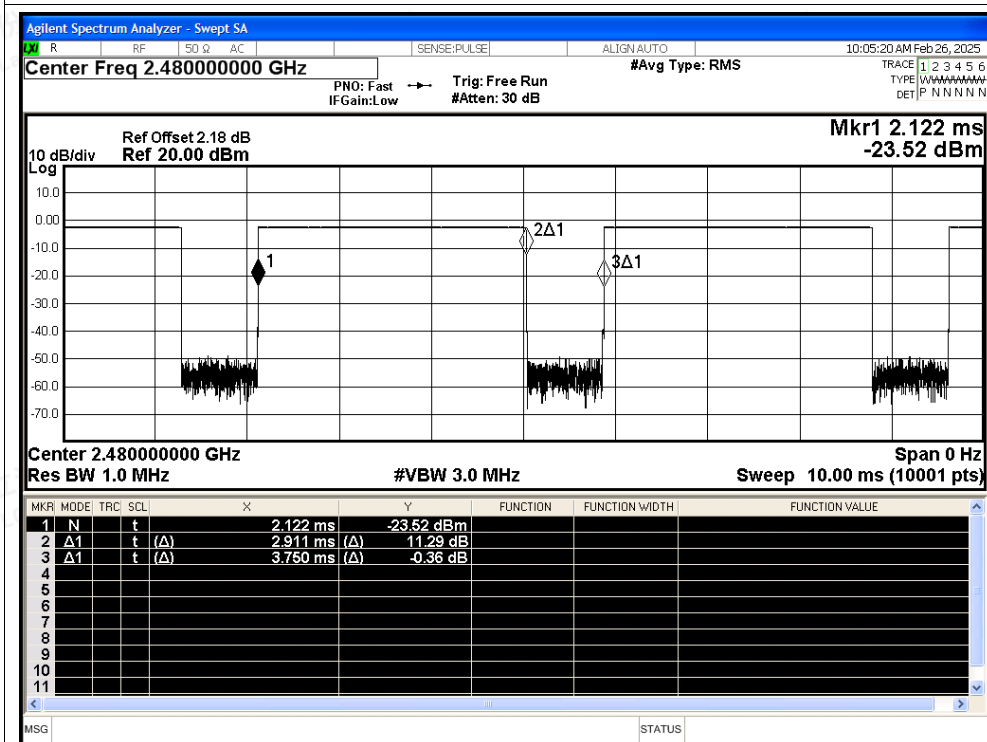
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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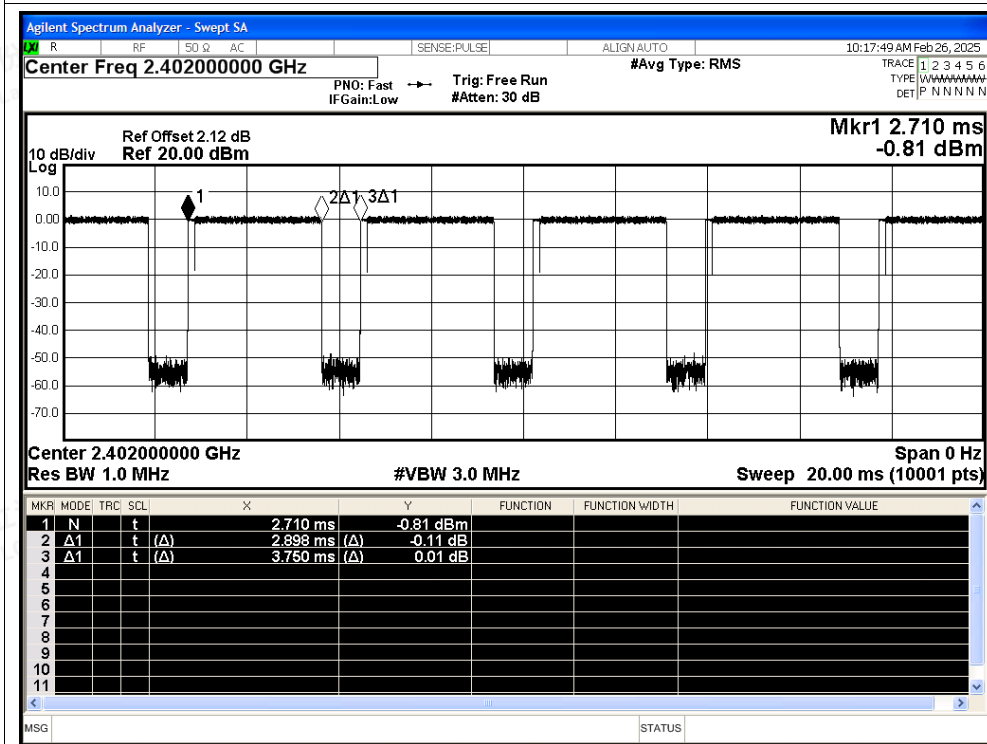
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

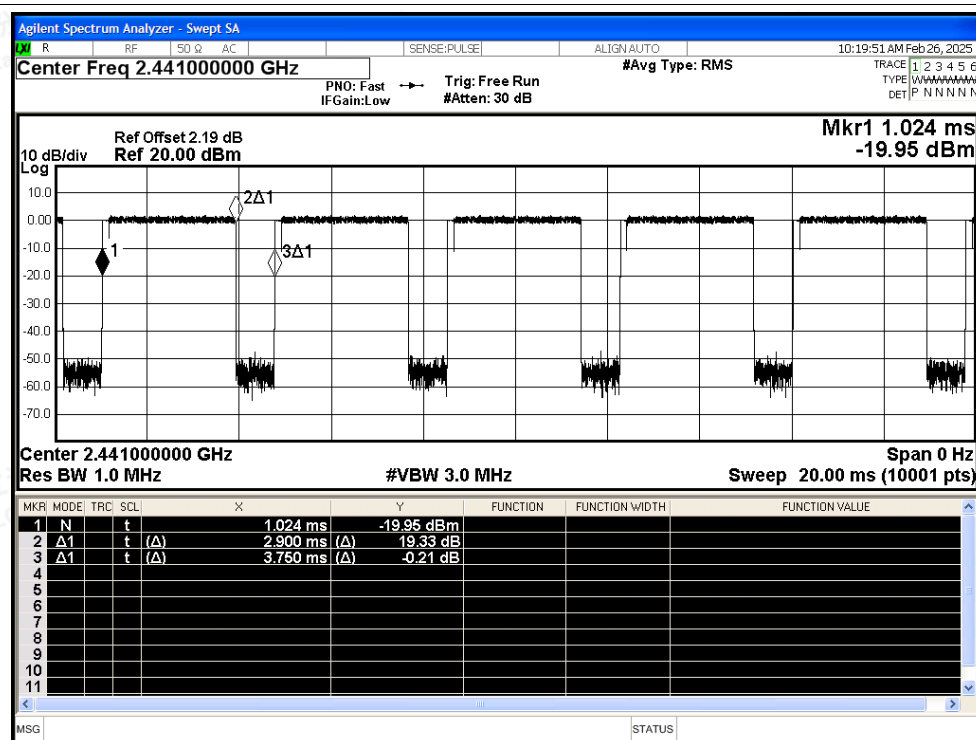
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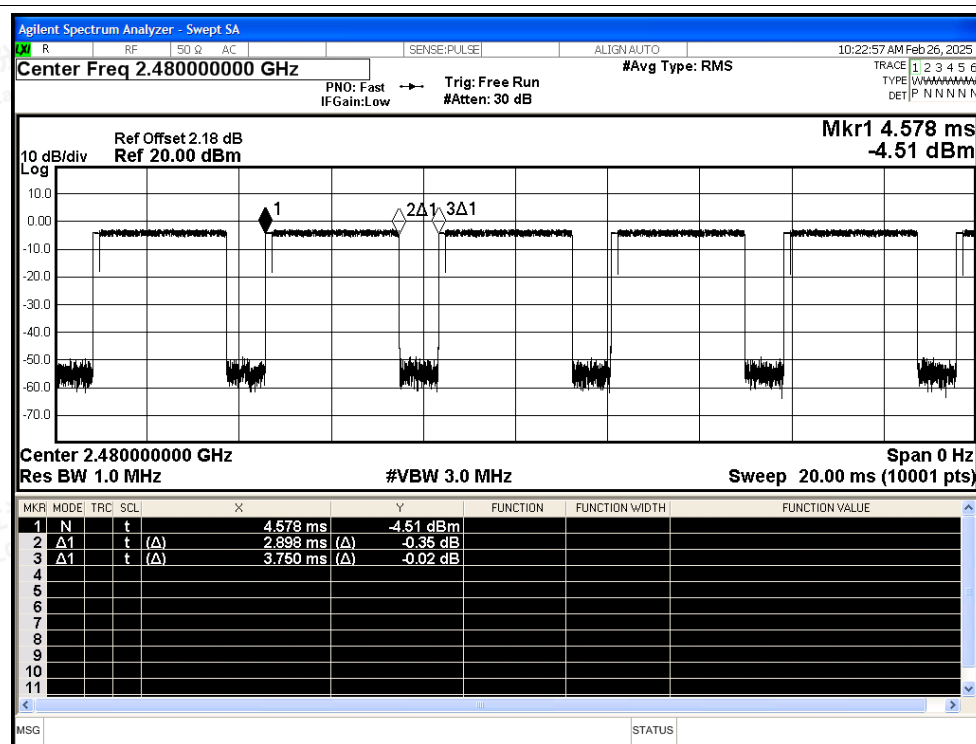
Scan code to check authenticity



Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

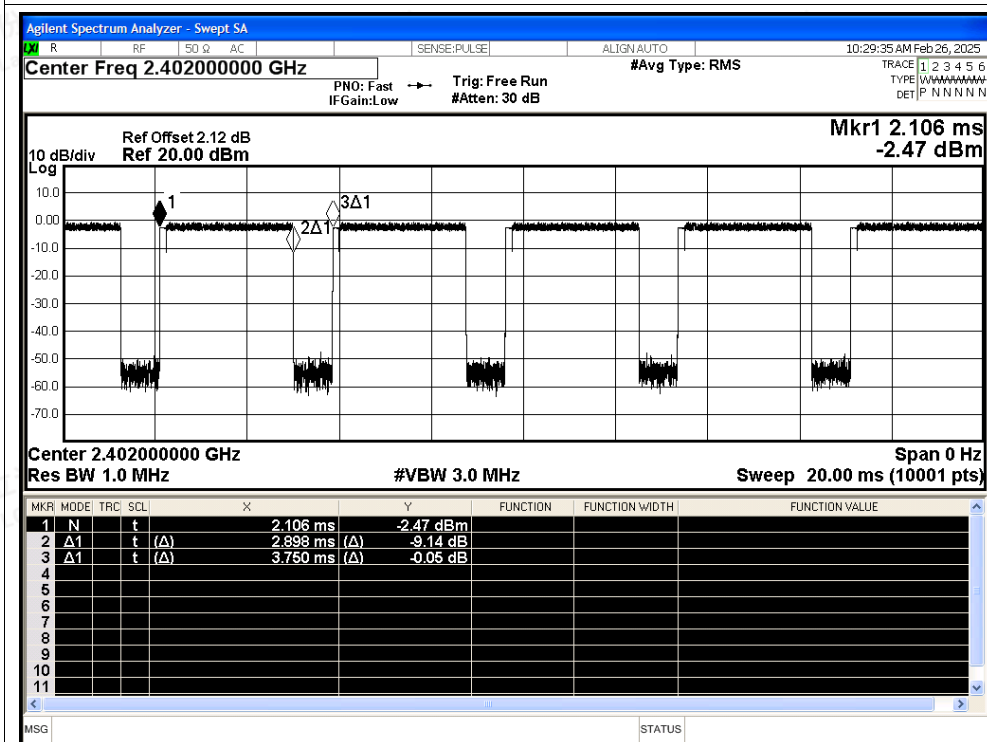
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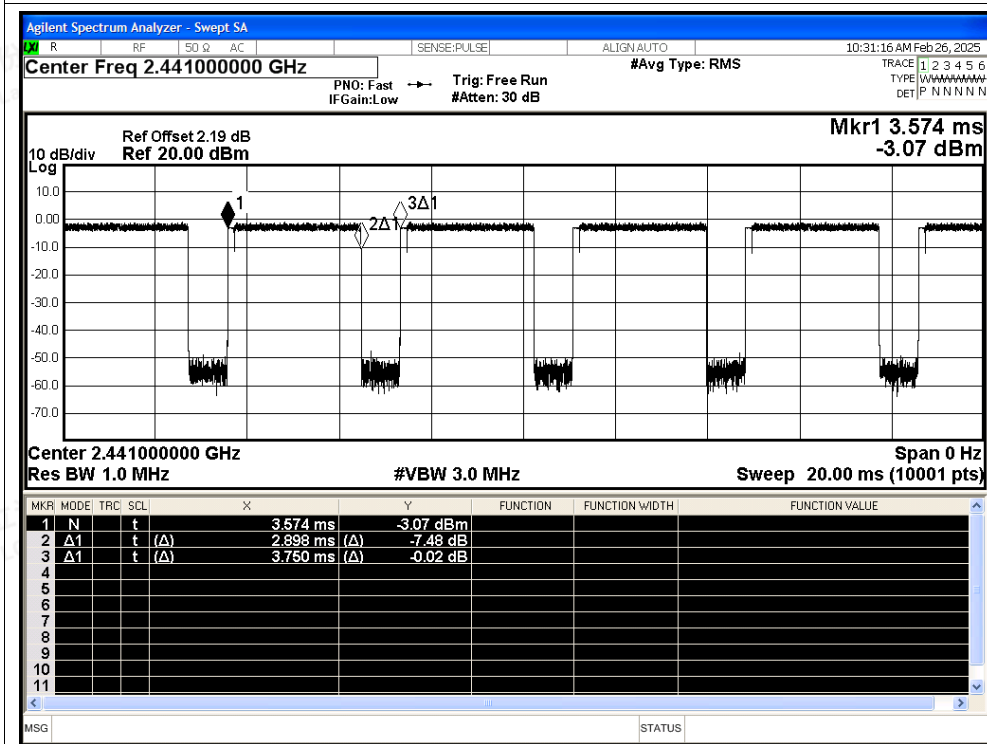
Scan code to check authenticity



Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

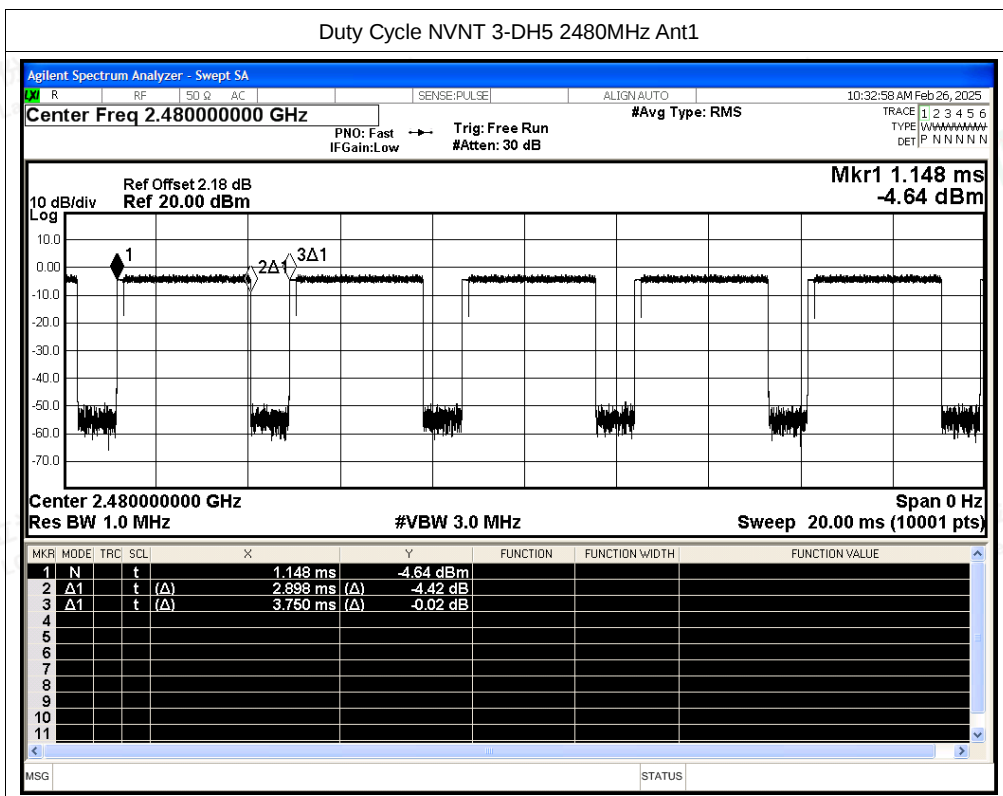


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A.9 Restrict Band

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	-50.99	2	-	46.27	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.6	2	1.1	39.76	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.304	-47.11	2	-	50.15	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2376.528	-57.56	2	1.1	40.8	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.14	2	-	46.12	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.88	2	1.1	39.48	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-51.04	2	-	46.22	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.34	2	1.1	40.02	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2489.08	-46.86	2	-	50.4	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.352	-57.21	2	1.1	41.15	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.48	2	-	46.78	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.88	2	1.1	40.48	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.66	2	-	46.6	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.78	2	1.12	39.6	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2327.952	-47.67	2	-	49.59	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2383.152	-57.67	2	1.12	40.71	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.16	2	-	47.1	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.31	2	1.12	40.07	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.45	2	-	48.81	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.4	2	1.12	40.98	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.976	-43.52	2	-	53.74	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.656	-56.87	2	1.12	41.51	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.58	2	-	45.68	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.3	2	1.12	40.08	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.55	2	-	46.71	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.97	2	1.12	39.41	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2379.024	-47.11	2	-	50.15	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.528	-57.54	2	1.12	40.84	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.25	2	-	47.01	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.25	2	1.12	40.13	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-45.13	2	-	52.13	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.47	2	1.12	40.91	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.656	-43.92	2	-	53.34	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.656	-56.79	2	1.12	41.59	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.69	2	-	47.57	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.54	2	1.12	40.84	Average	54	Pass



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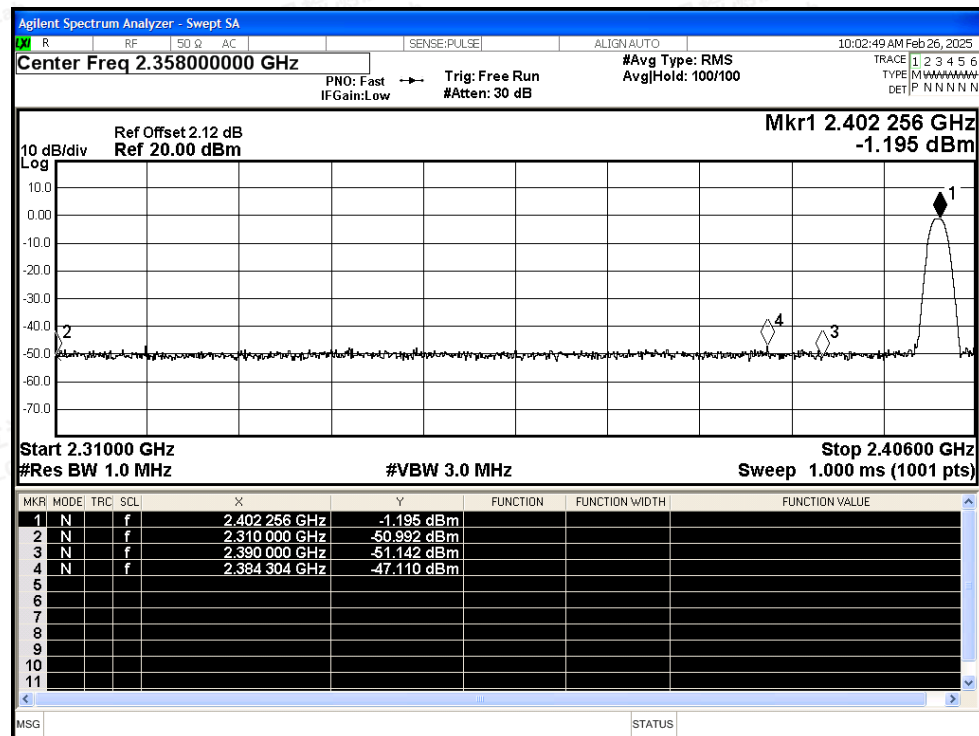
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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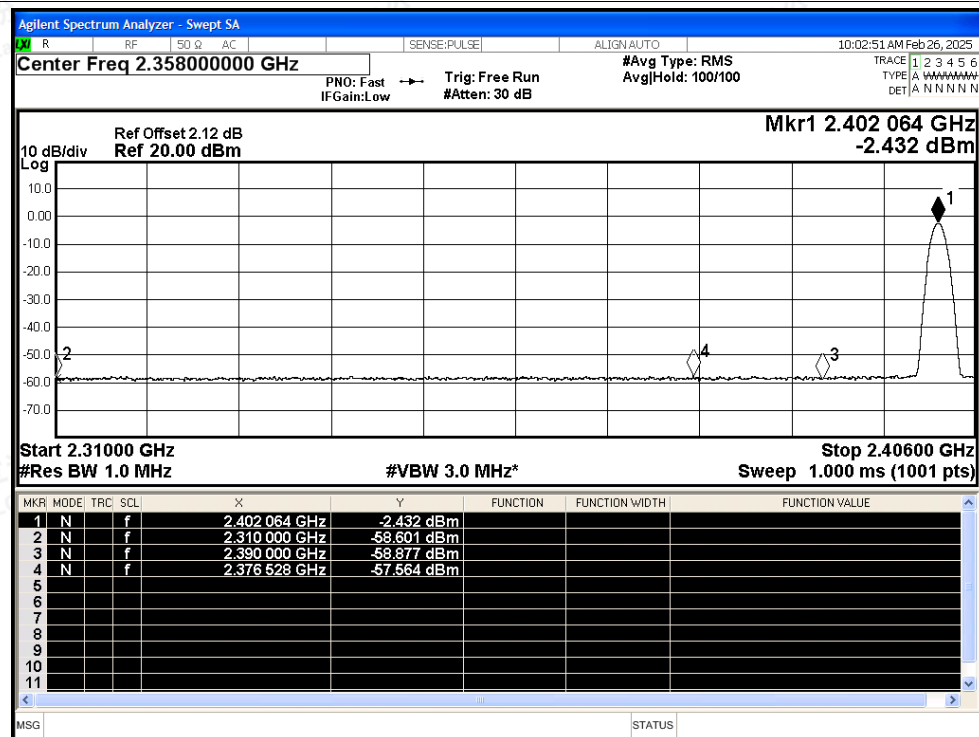


Test Graphs

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



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



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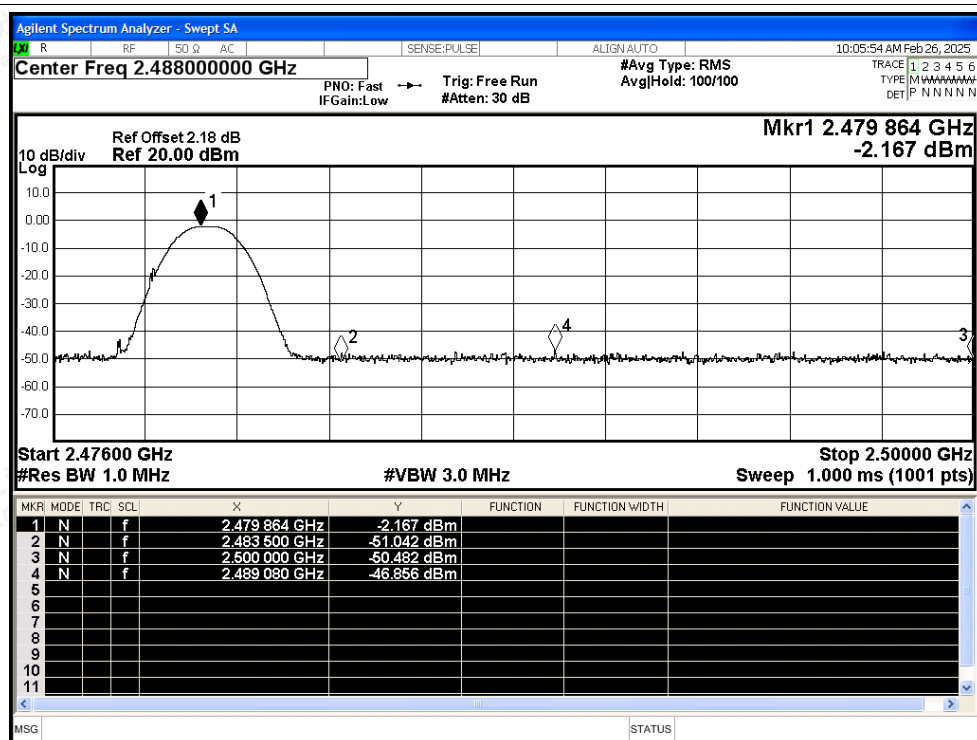
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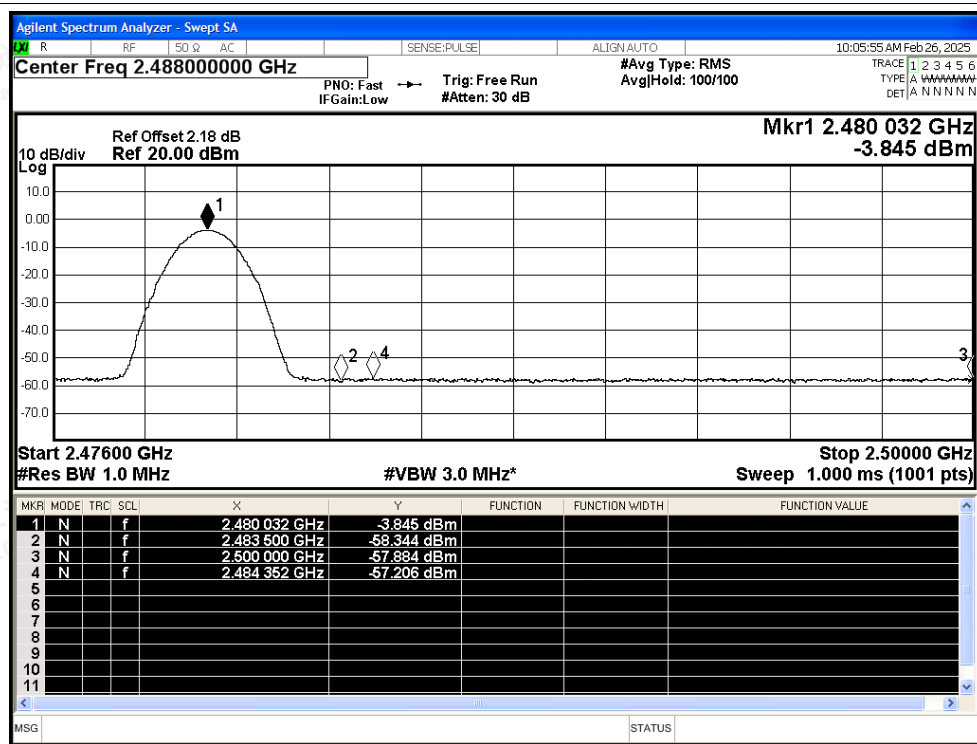
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

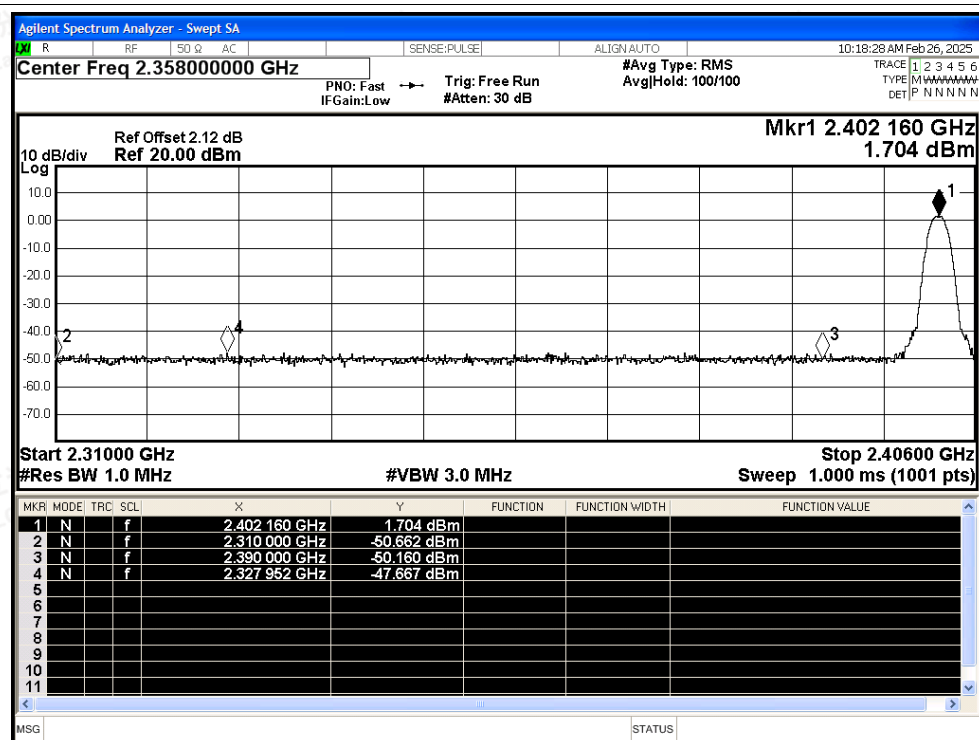
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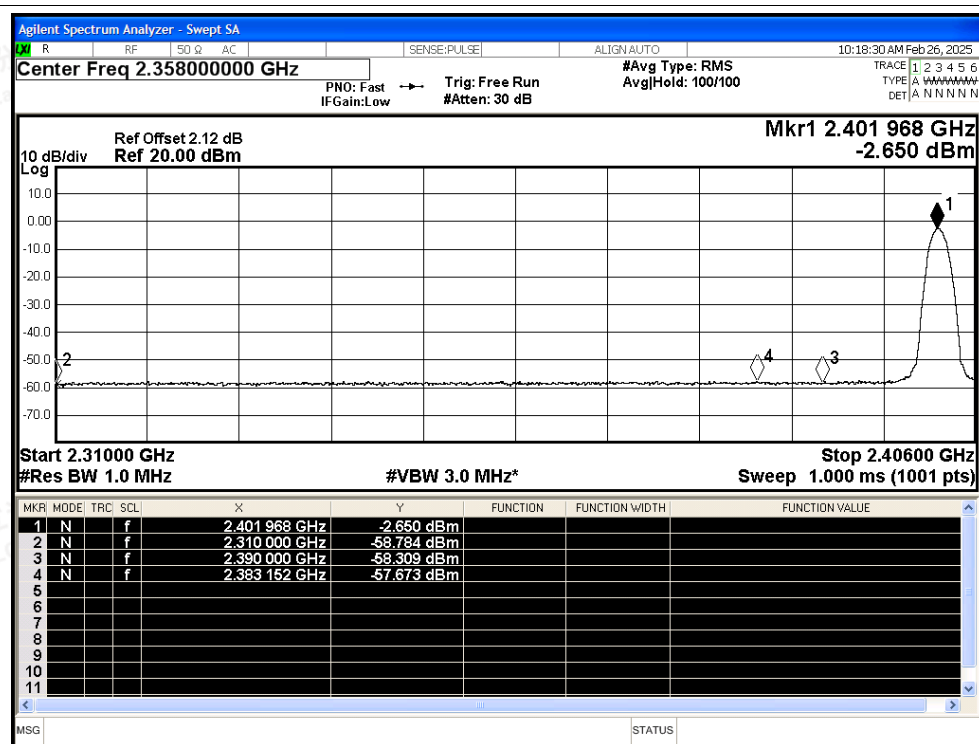
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

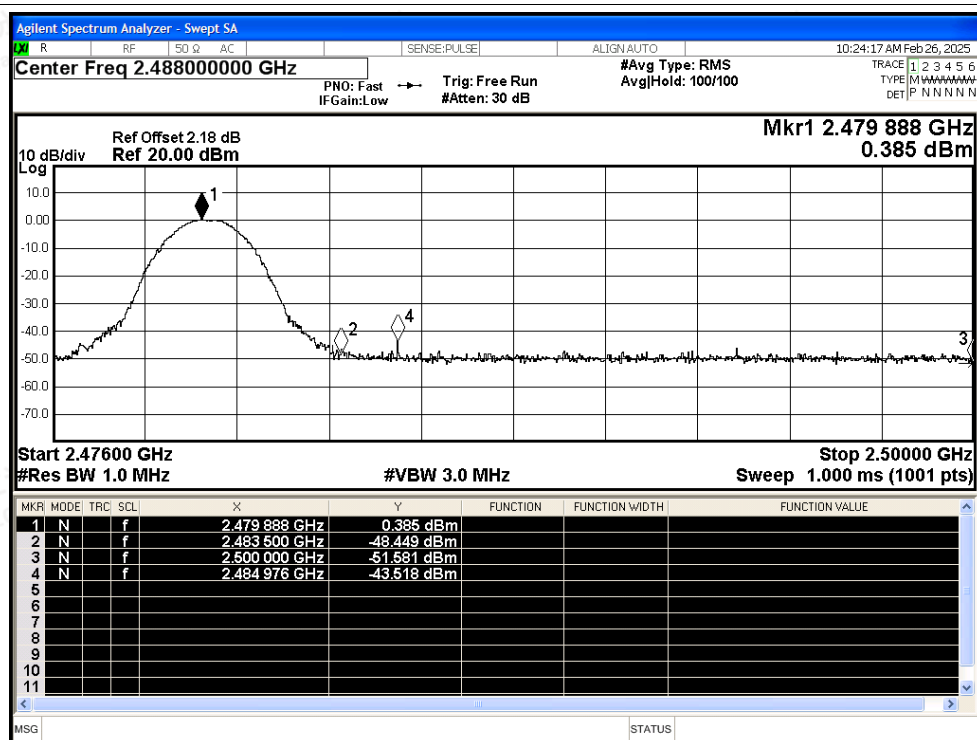
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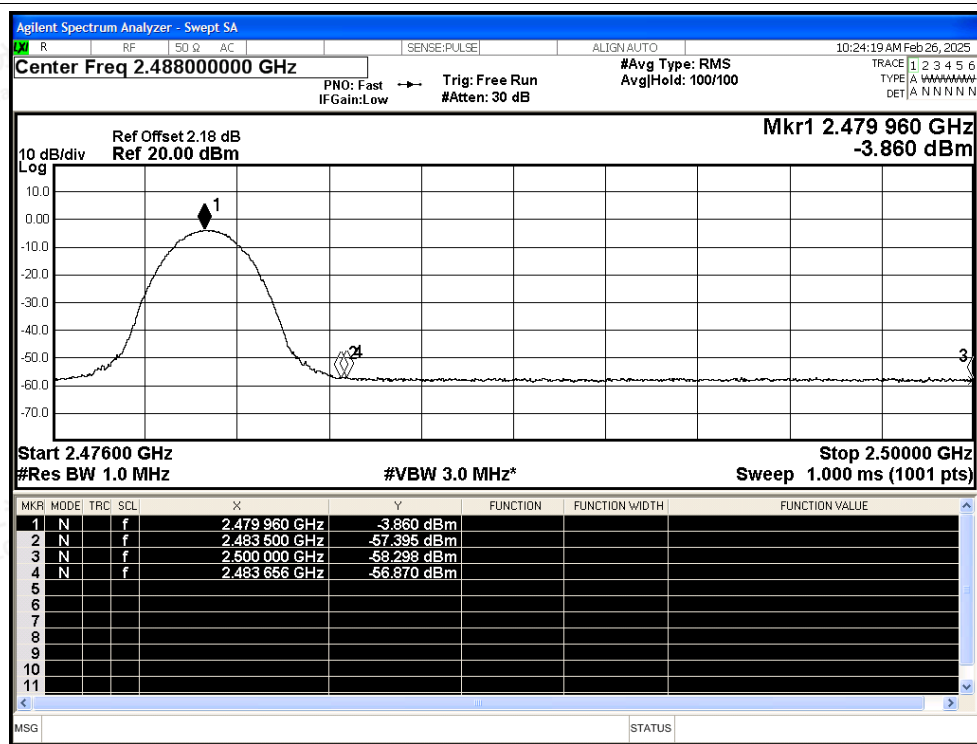
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

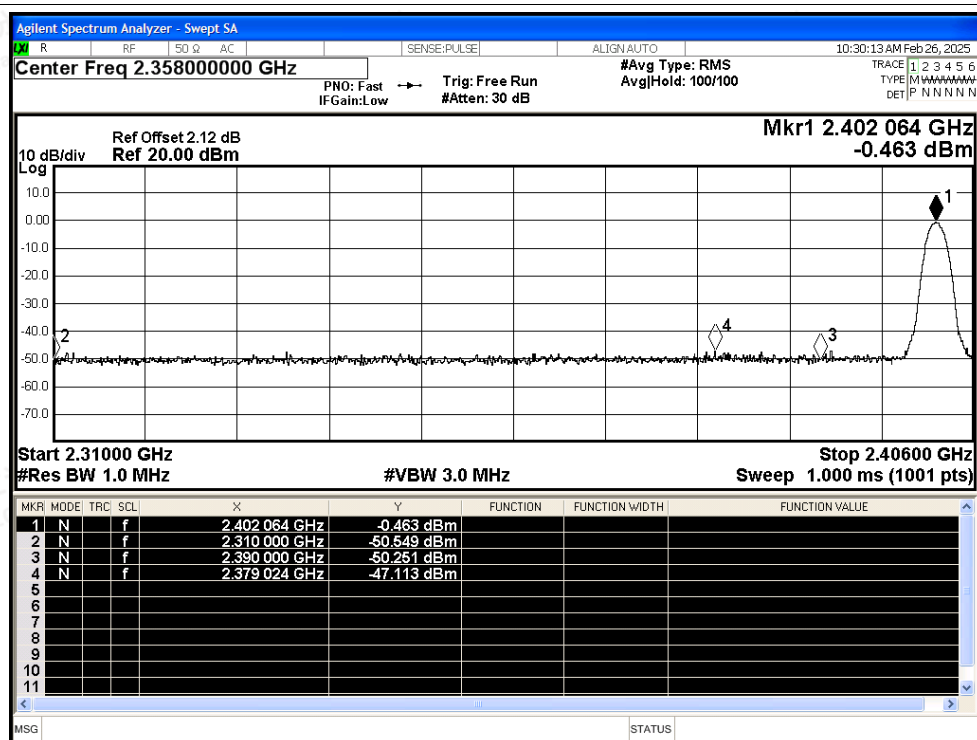
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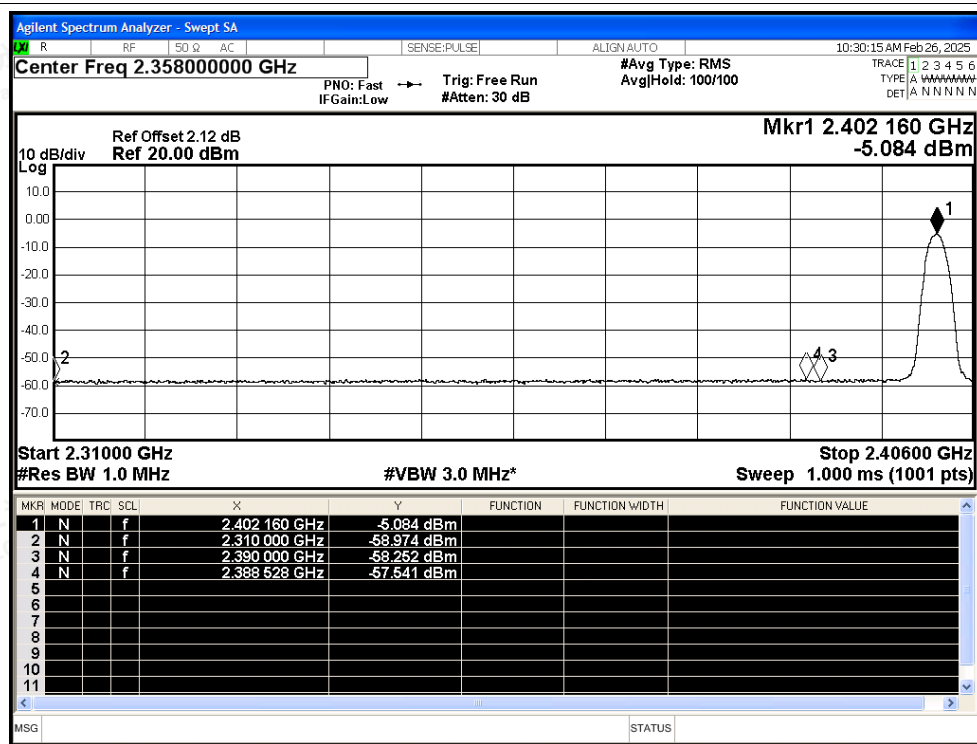
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

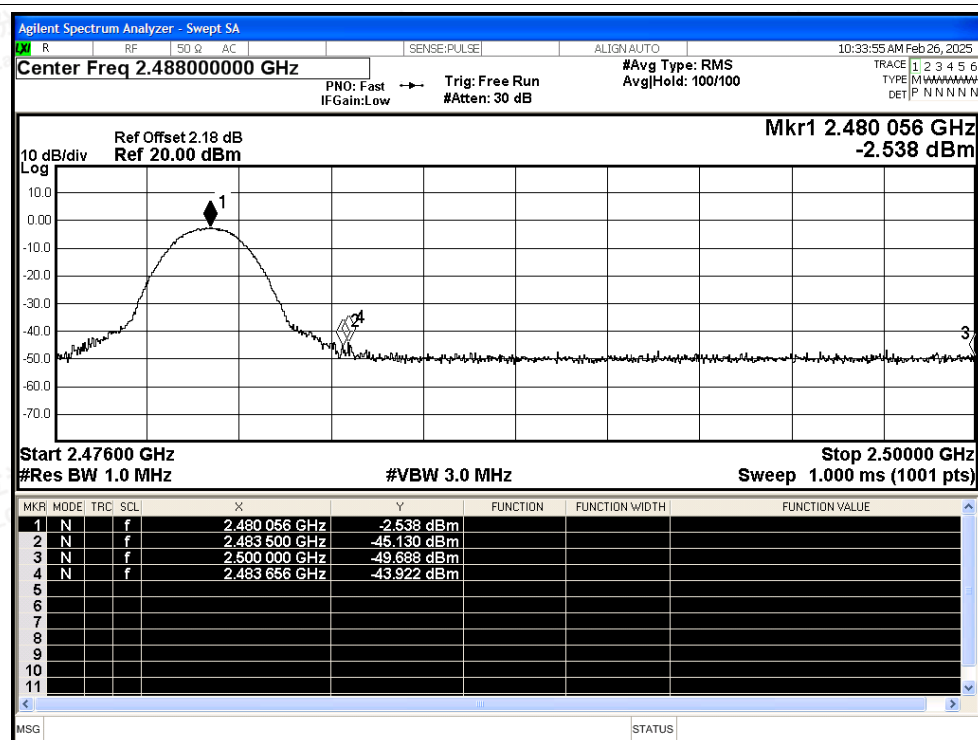
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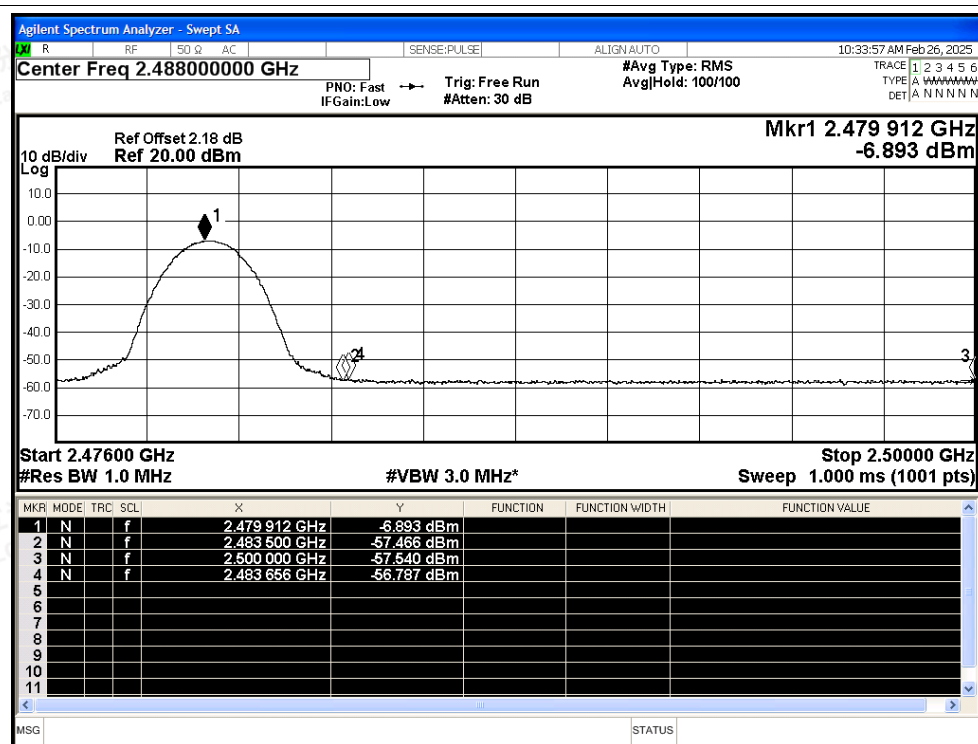
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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