



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bone conductive headphones

Test Model: WY518

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
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	Ant	0.943	N/A	Pass
NVNT	1-DH5	2441	Ant	1.005	N/A	Pass
NVNT	1-DH5	2480	Ant	0.951	N/A	Pass
NVNT	2-DH5	2402	Ant	1.323	N/A	Pass
NVNT	2-DH5	2441	Ant	1.281	N/A	Pass
NVNT	2-DH5	2480	Ant	1.327	N/A	Pass
NVNT	3-DH5	2402	Ant	1.311	N/A	Pass
NVNT	3-DH5	2441	Ant	1.295	N/A	Pass
NVNT	3-DH5	2480	Ant	1.313	N/A	Pass



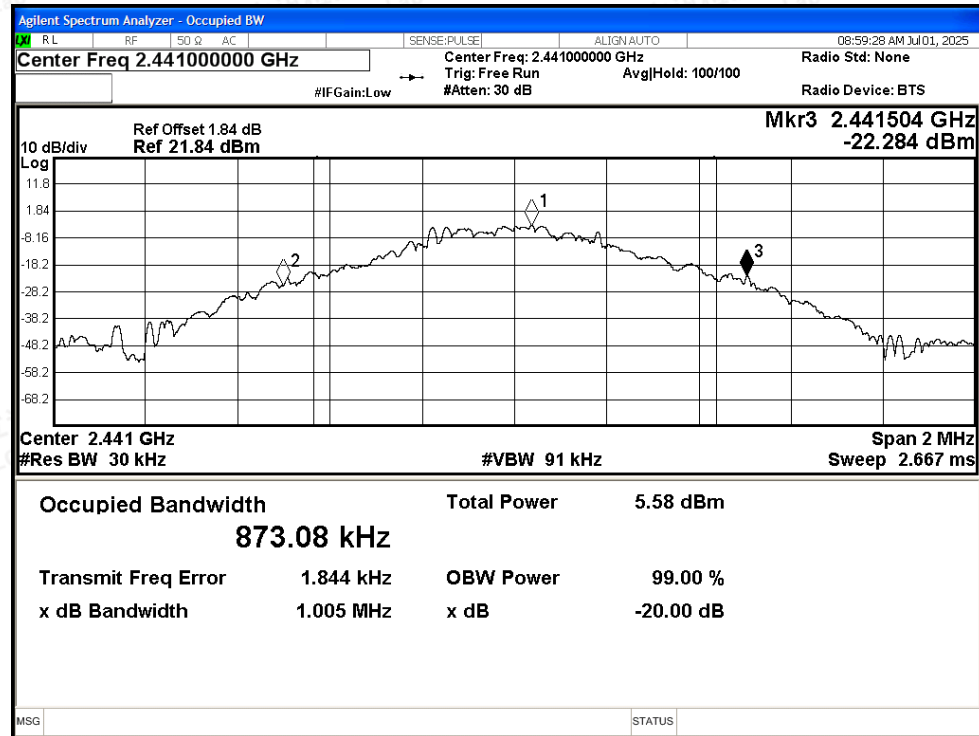


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant



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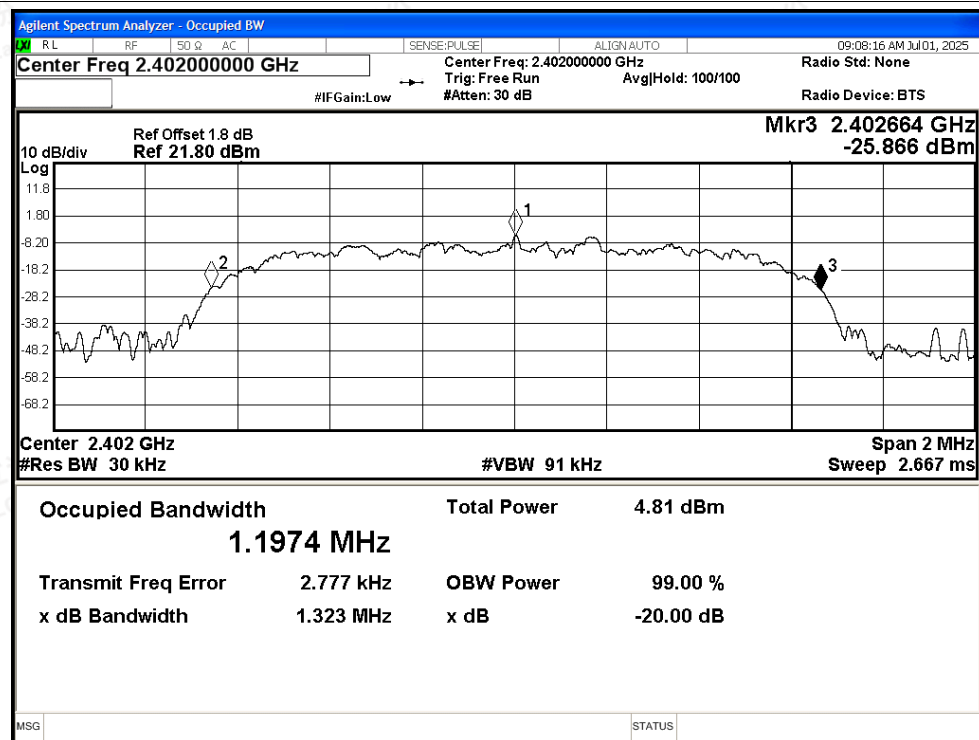
Scan code to check authenticity



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant



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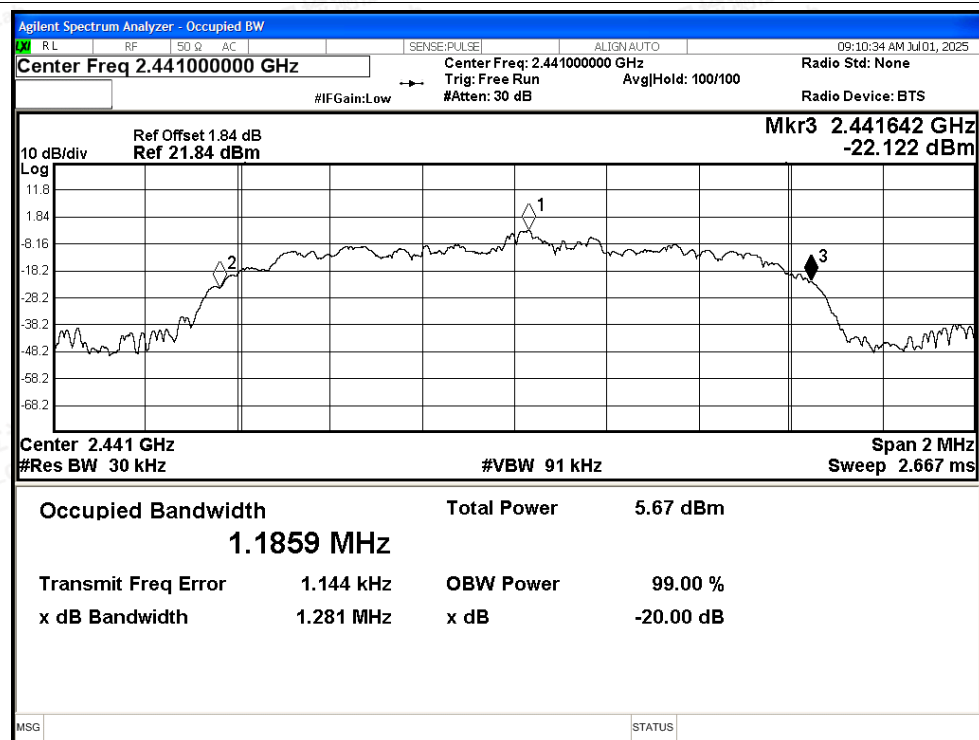
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

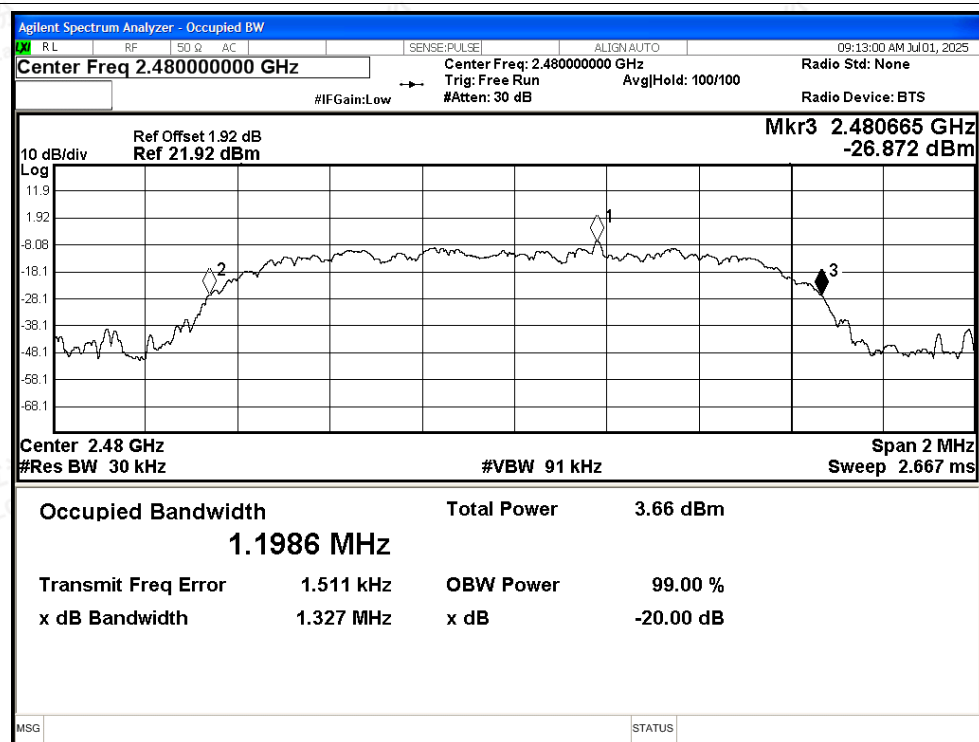
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant



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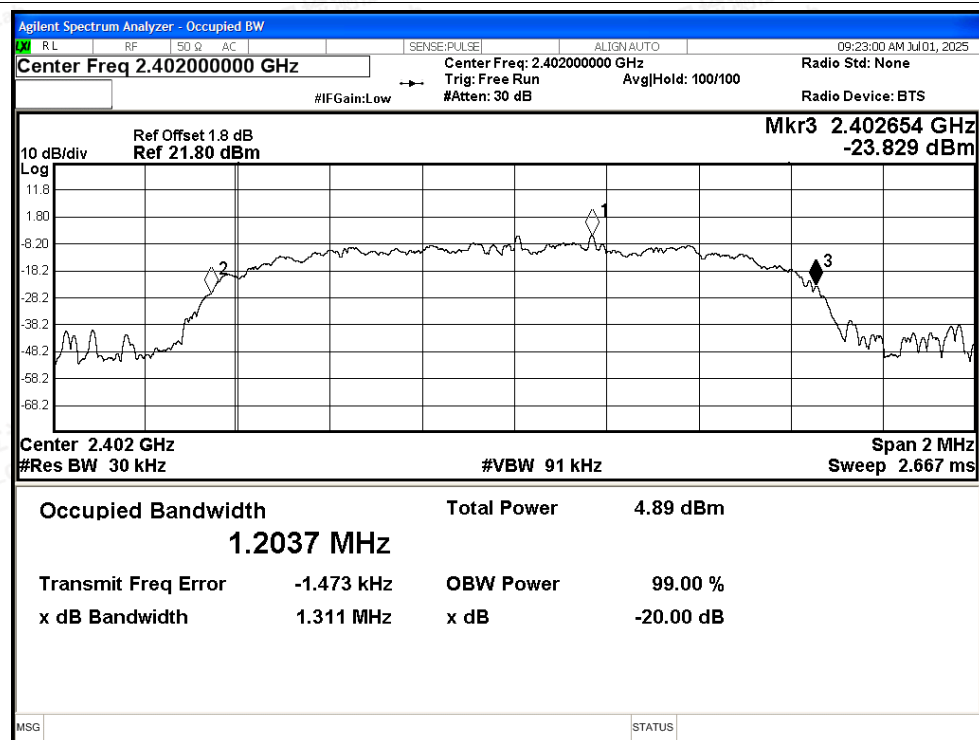
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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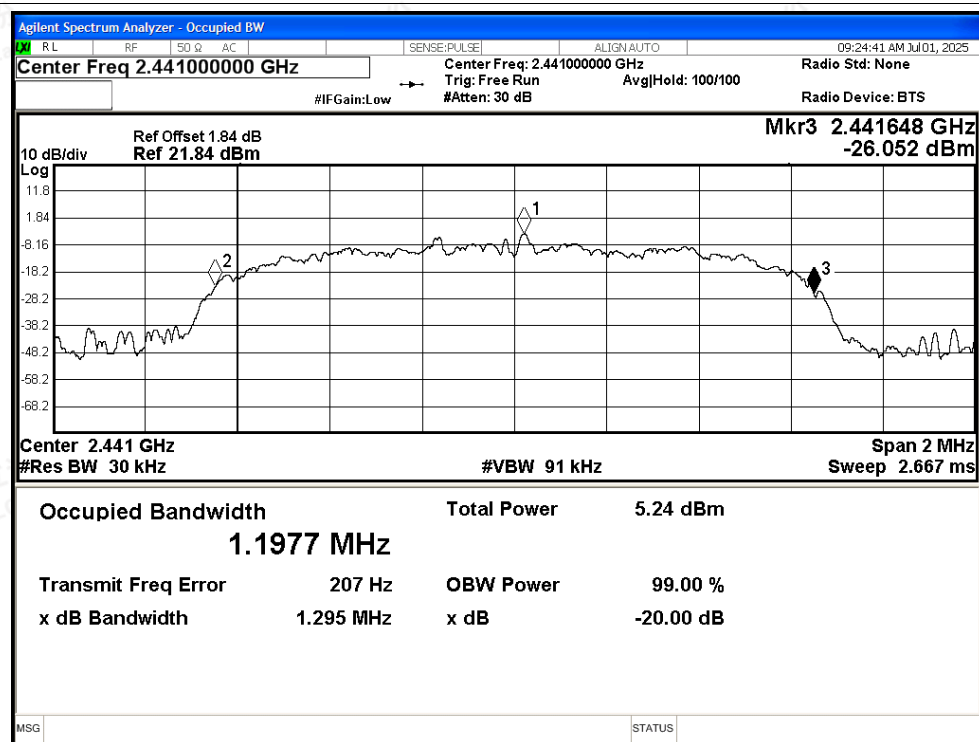
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant

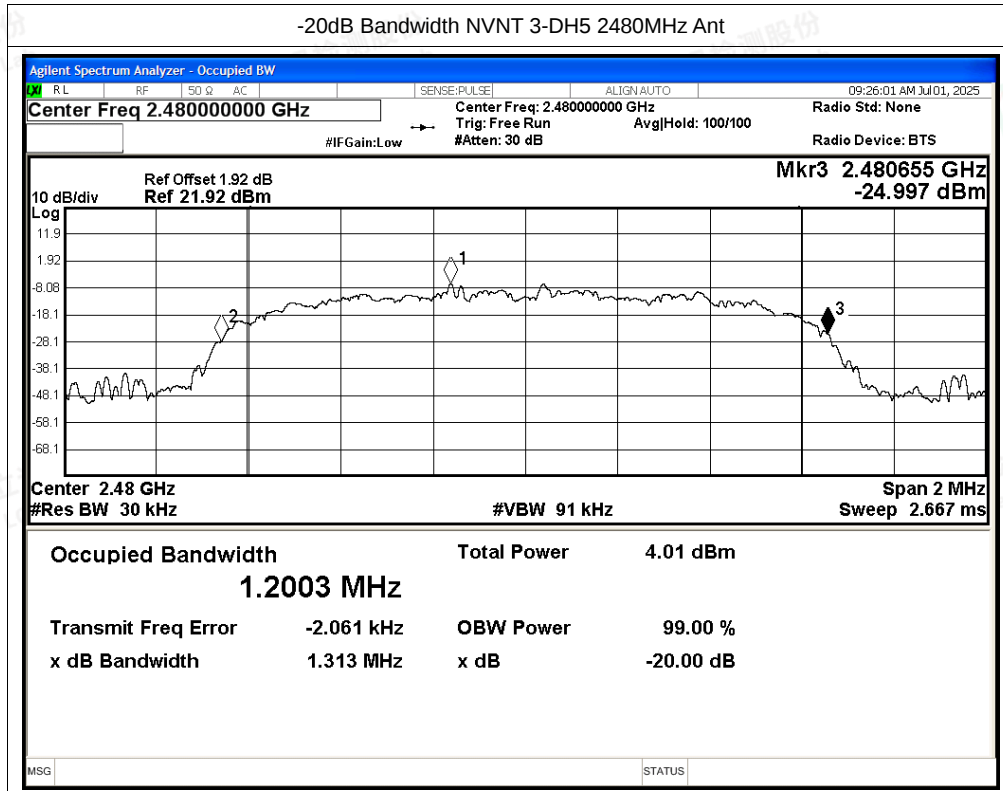


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A.2 Maximum Peak Conducted Output Power

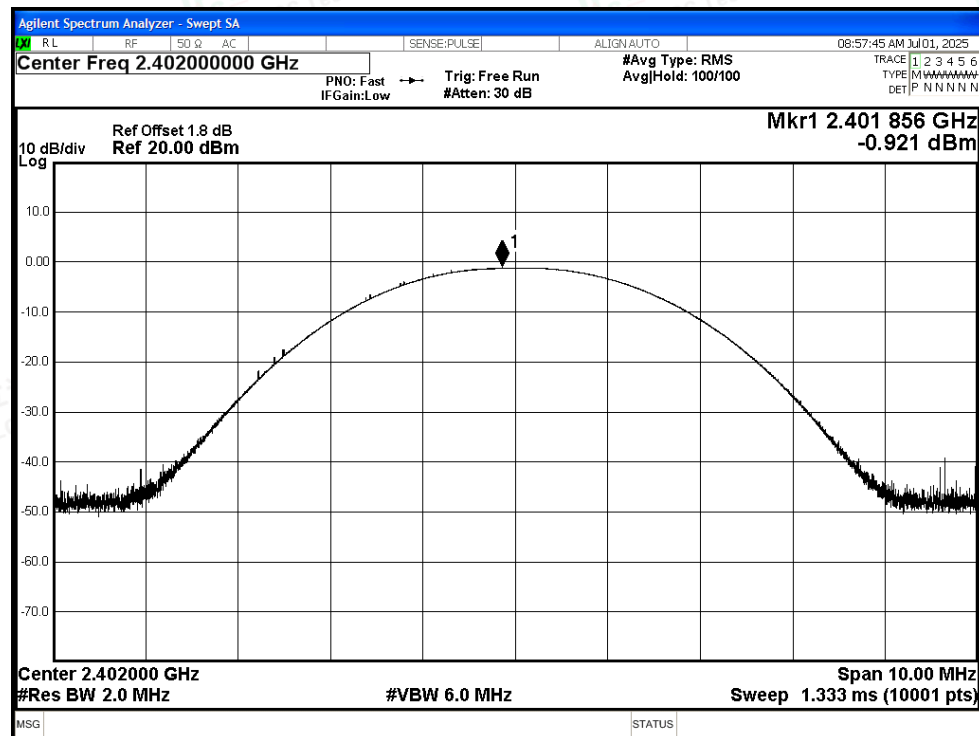
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant	-0.92	21	Pass
NVNT	1-DH5	2441	Ant	-0.65	21	Pass
NVNT	1-DH5	2480	Ant	-1.75	21	Pass
NVNT	2-DH5	2402	Ant	1.01	21	Pass
NVNT	2-DH5	2441	Ant	1.21	21	Pass
NVNT	2-DH5	2480	Ant	0.06	21	Pass
NVNT	3-DH5	2402	Ant	1.39	21	Pass
NVNT	3-DH5	2441	Ant	1.62	21	Pass
NVNT	3-DH5	2480	Ant	0.43	21	Pass



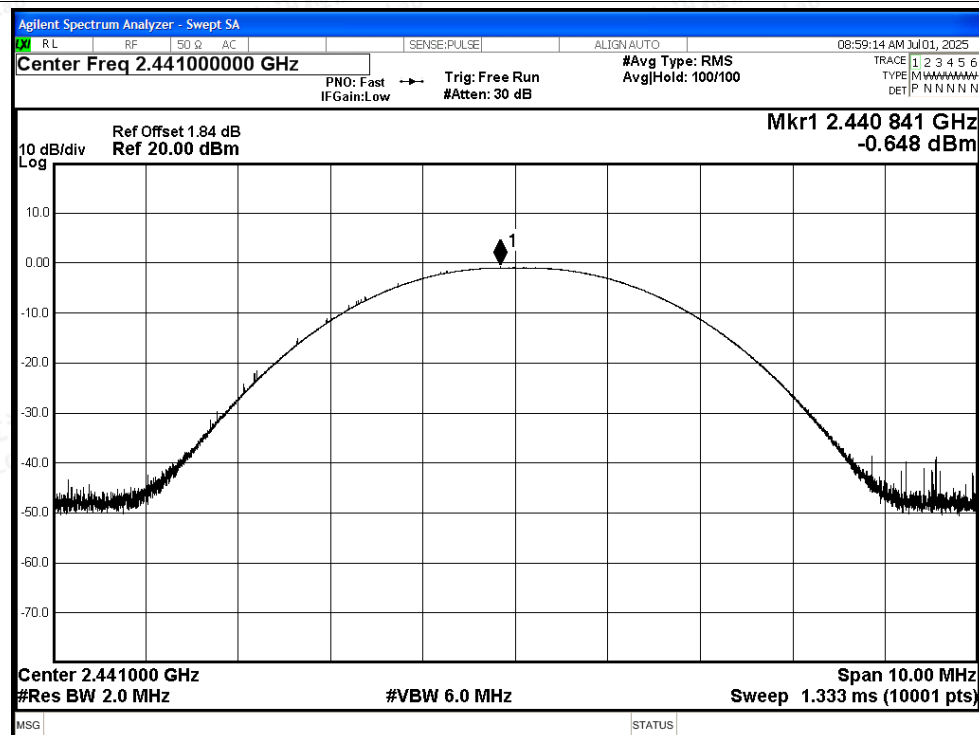


Test Graphs

Power NVNT 1-DH5 2402MHz Ant

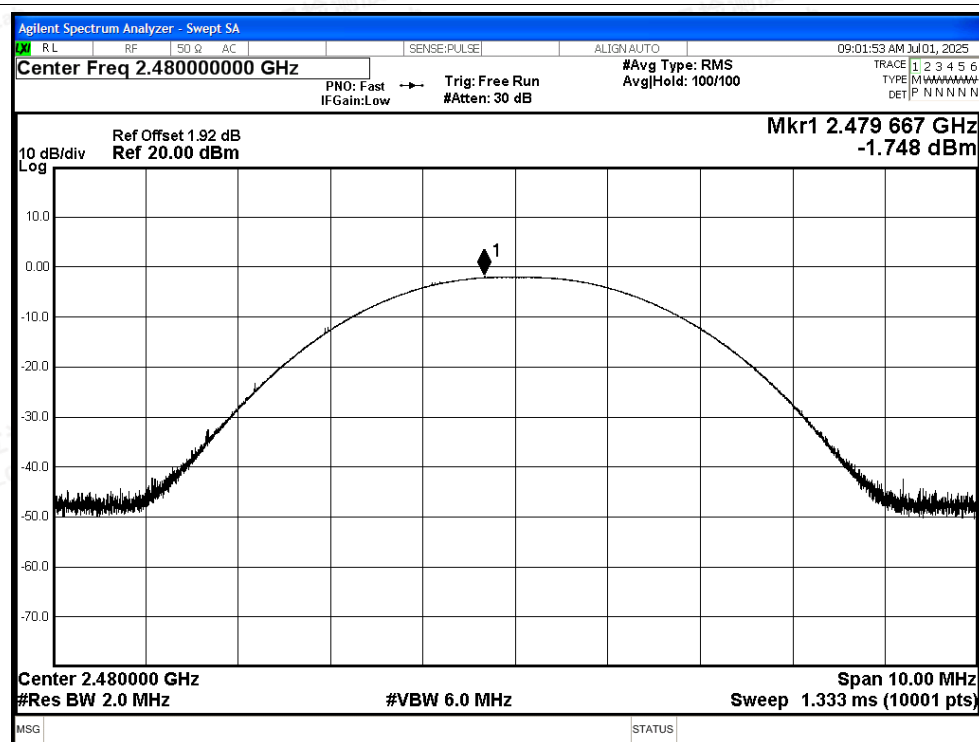


Power NVNT 1-DH5 2441MHz Ant

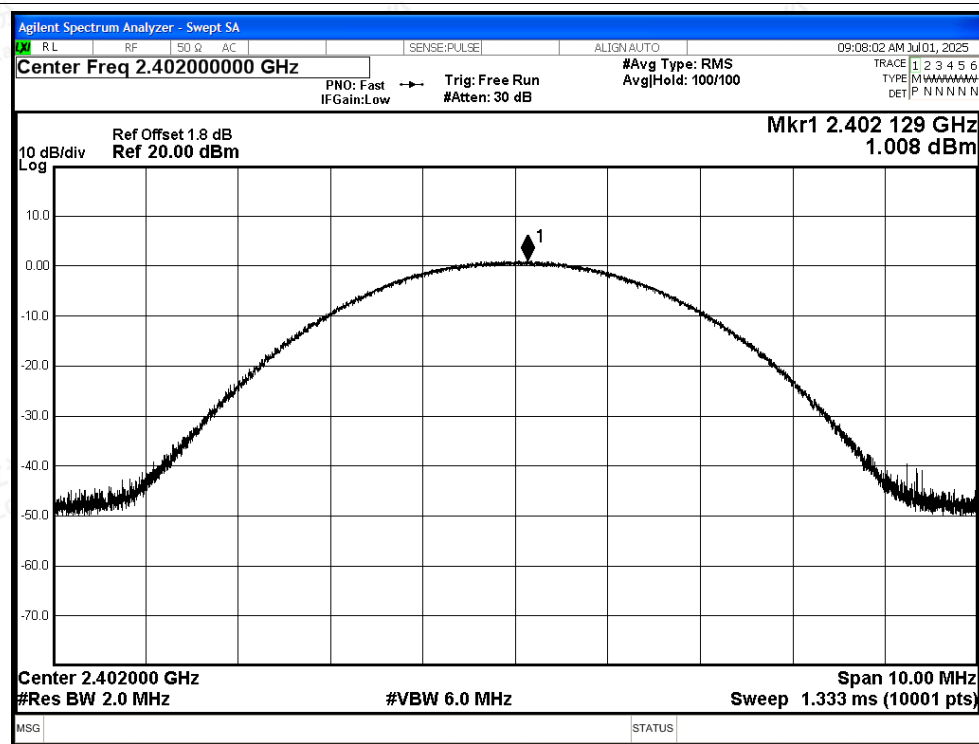


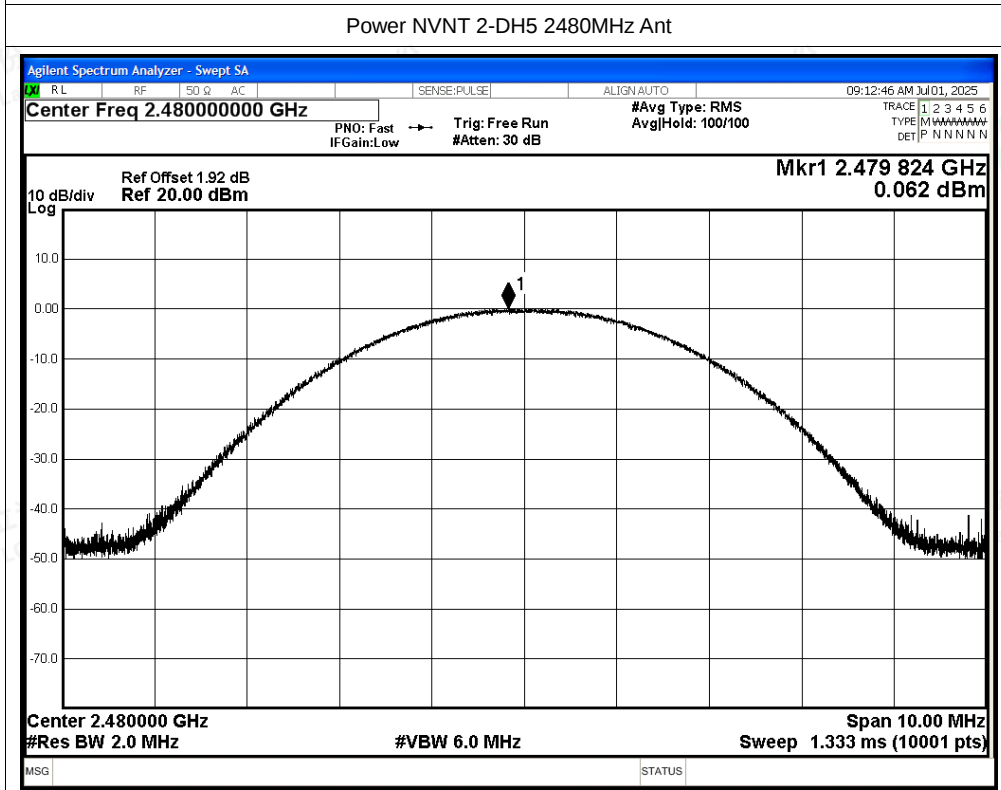
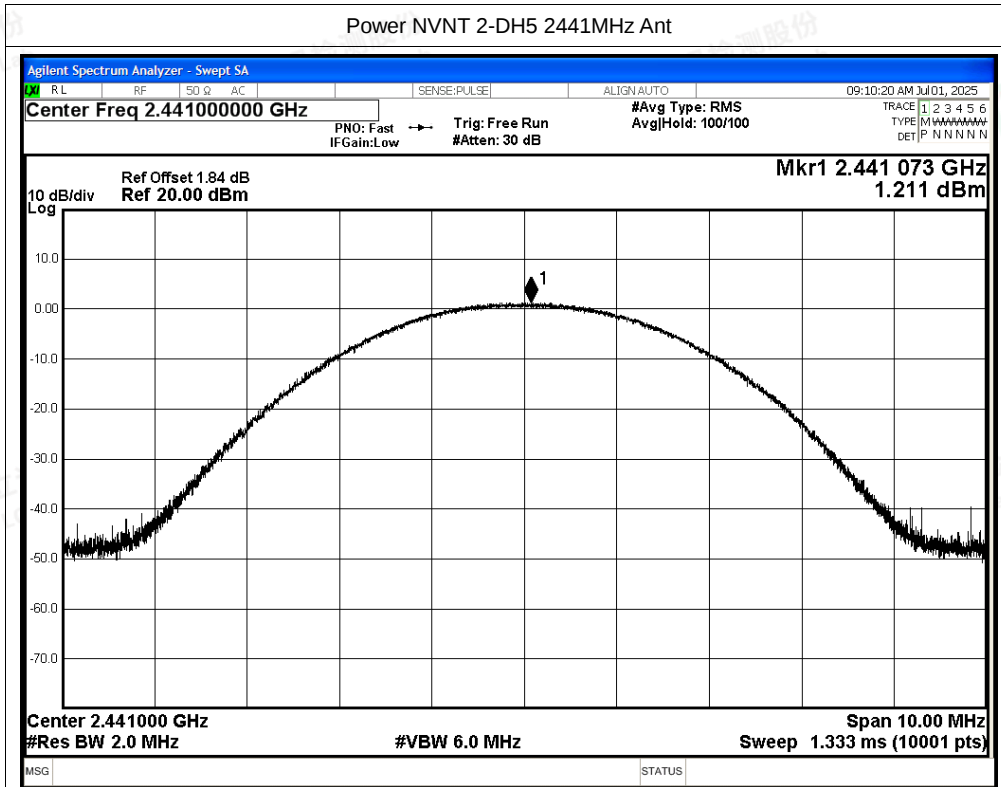


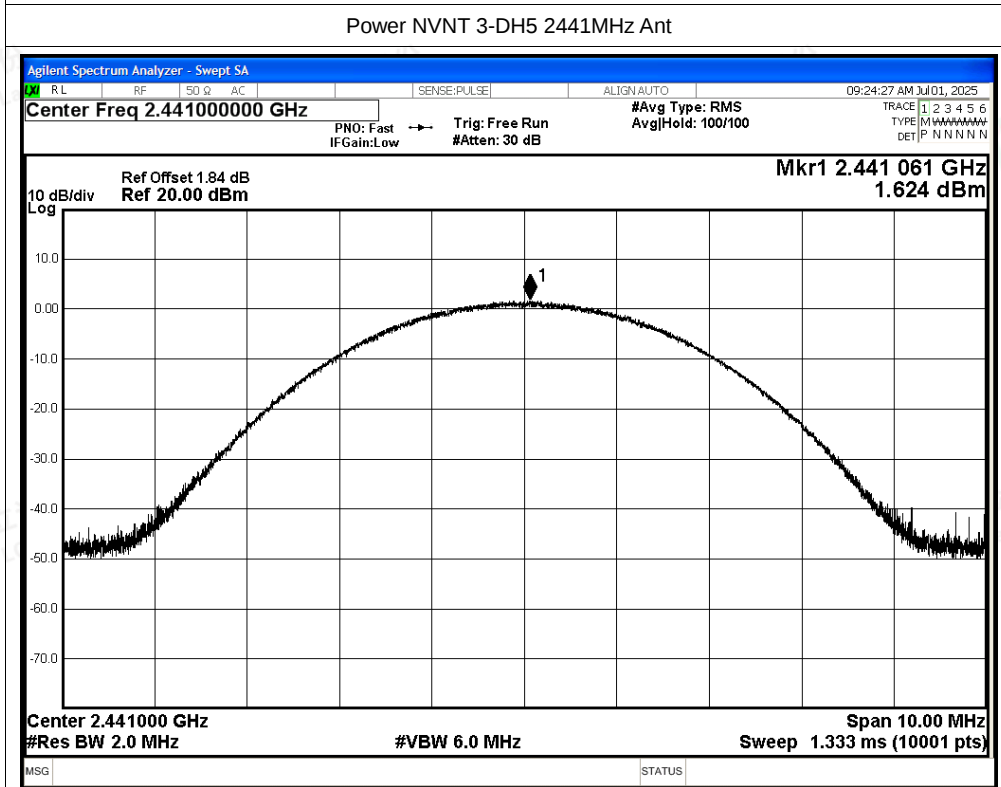
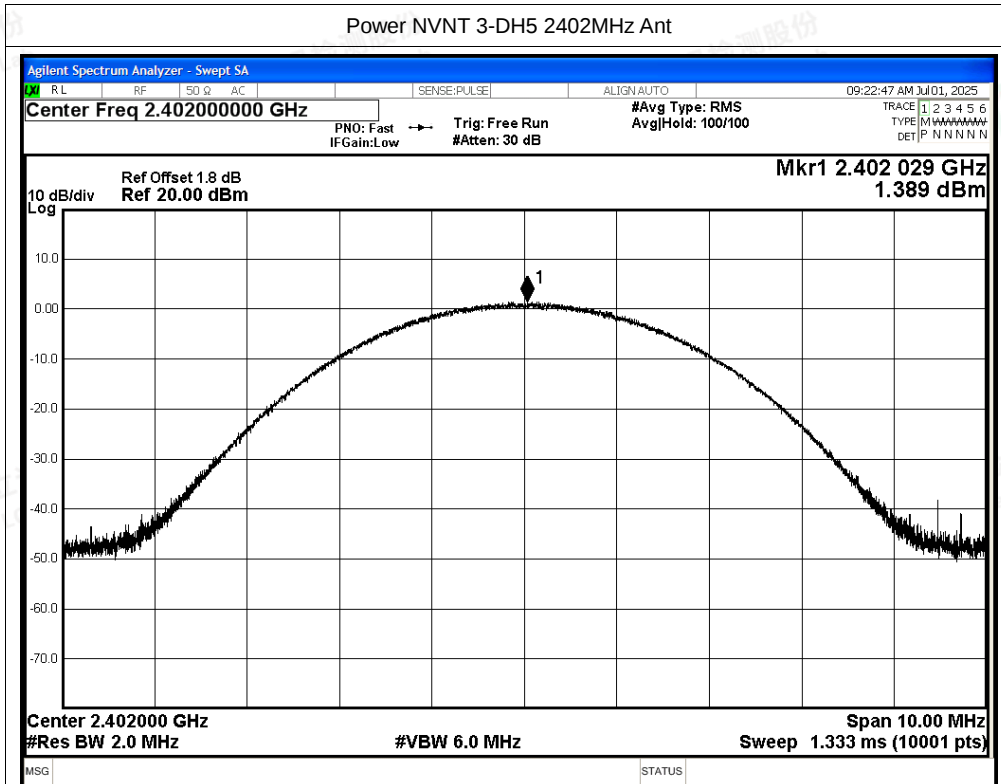
Power NVNT 1-DH5 2480MHz Ant

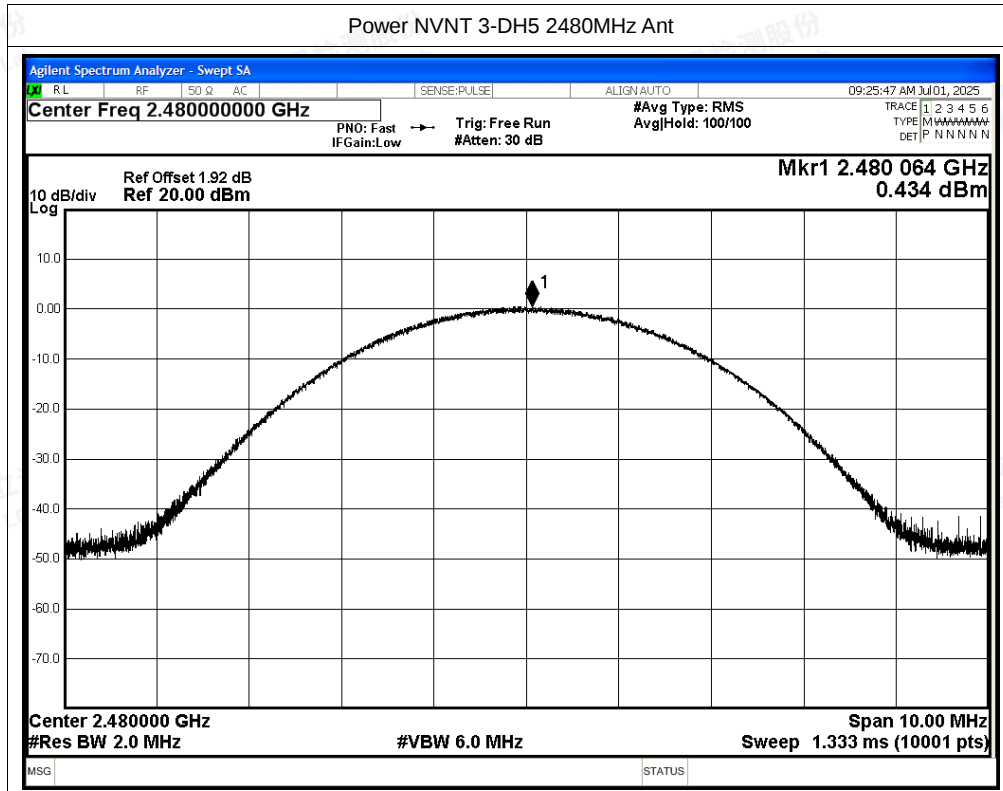


Power NVNT 2-DH5 2402MHz Ant











A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant	2401.84	2402.838	0.998	0.670	Pass
NVNT	2-DH5	Ant	2401.996	2403.16	1.164	0.885	Pass
NVNT	3-DH5	Ant	2402.026	2403.028	1.002	0.875	Pass

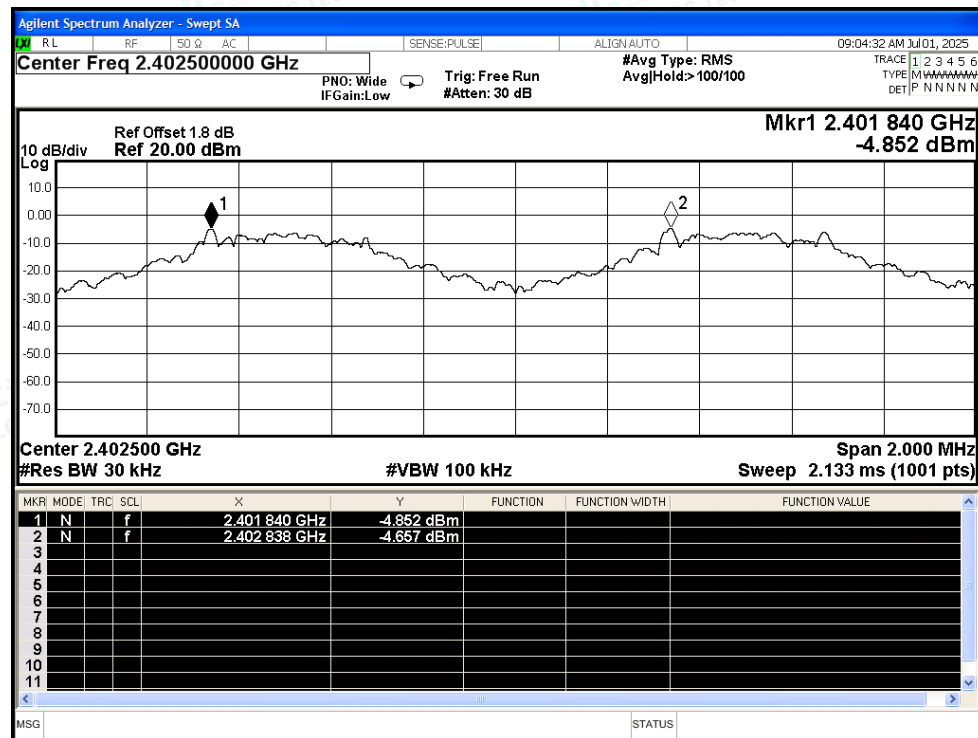


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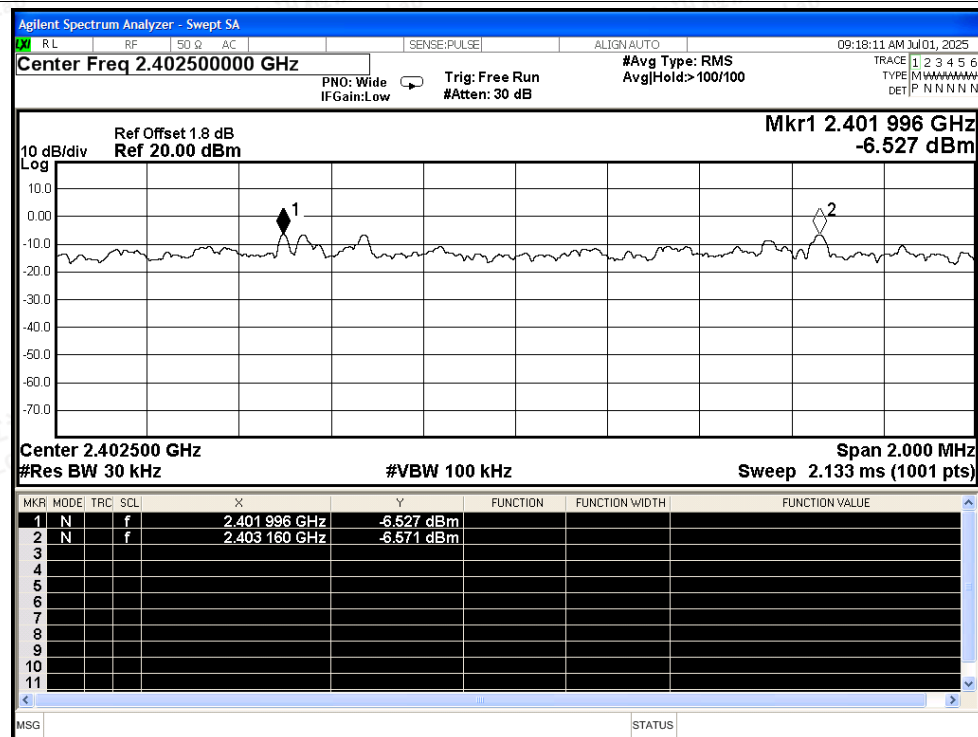


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant



CFS NVNT 2-DH5 2402MHz Ant

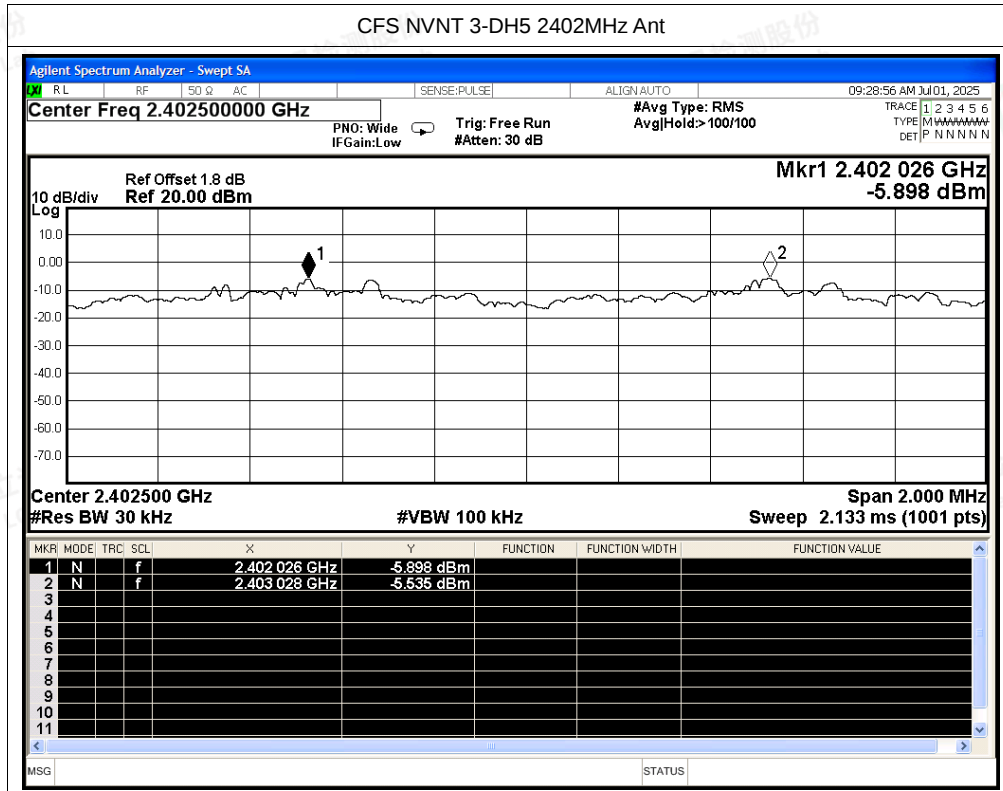


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A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant	2.91	296.82	102	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.899	298.597	103	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.897	318.67	110	31600	400	Pass

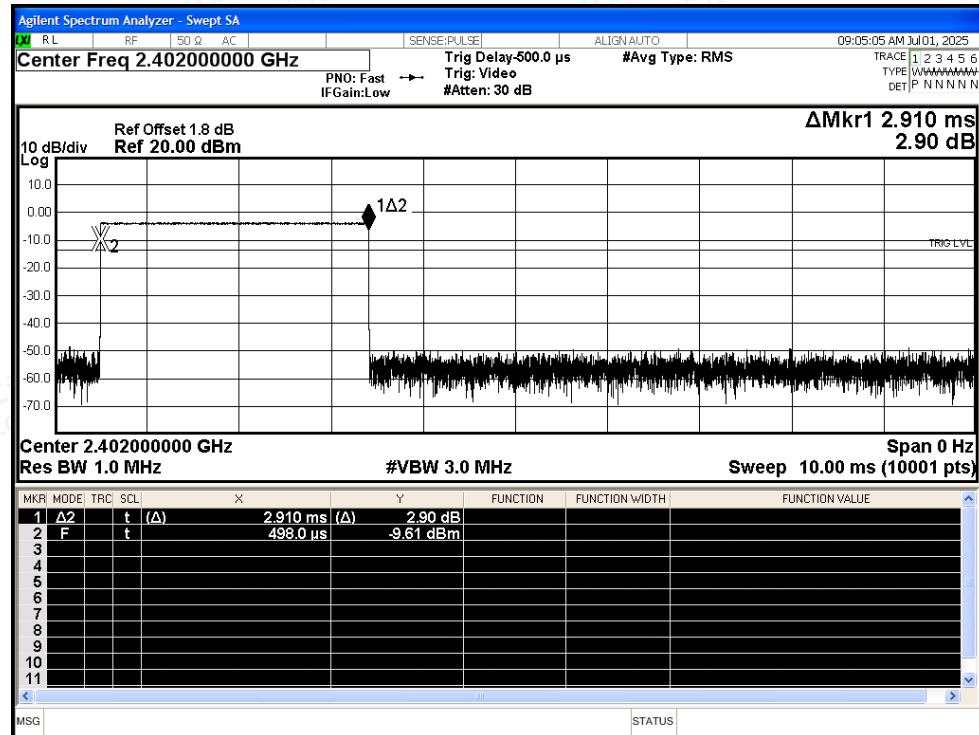


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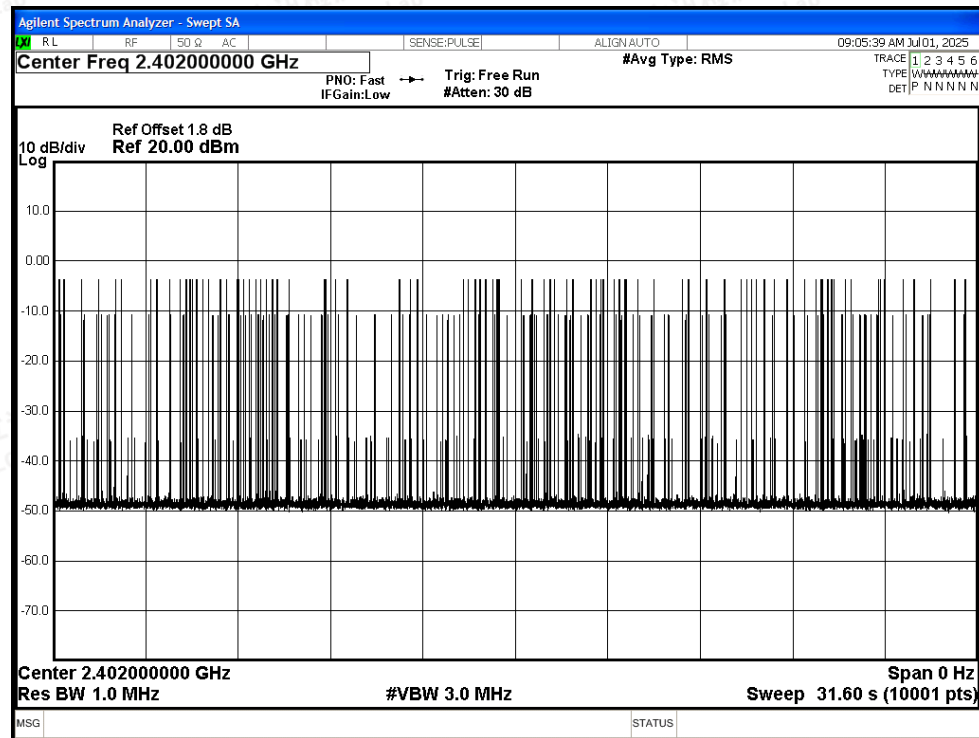


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant One Burst



Dwell NVNT 1-DH5 2402MHz Ant Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

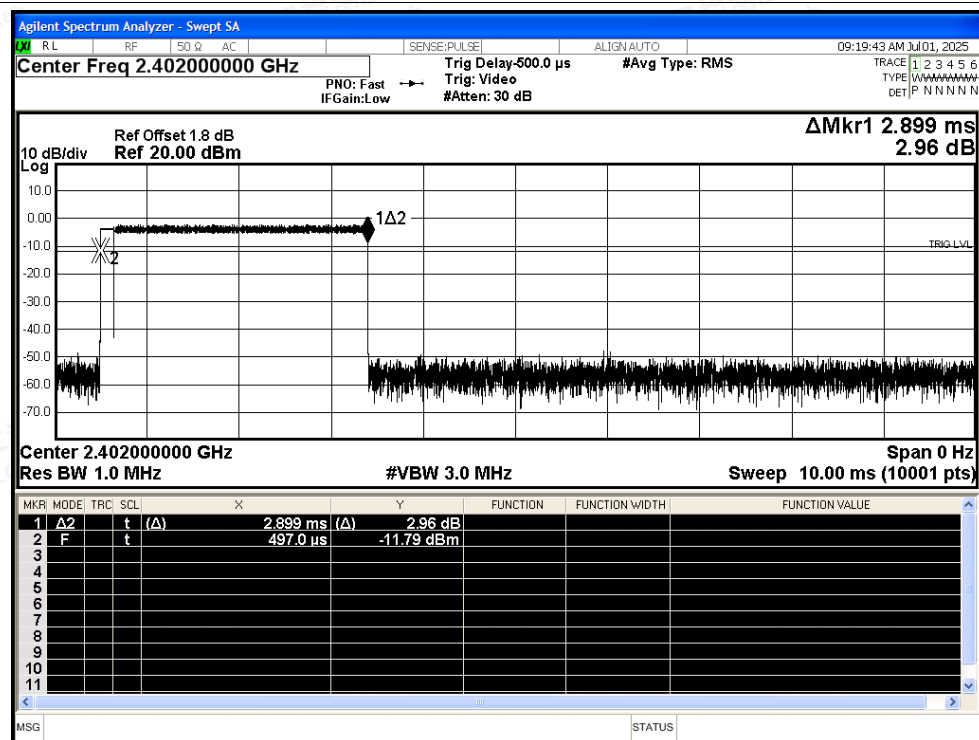
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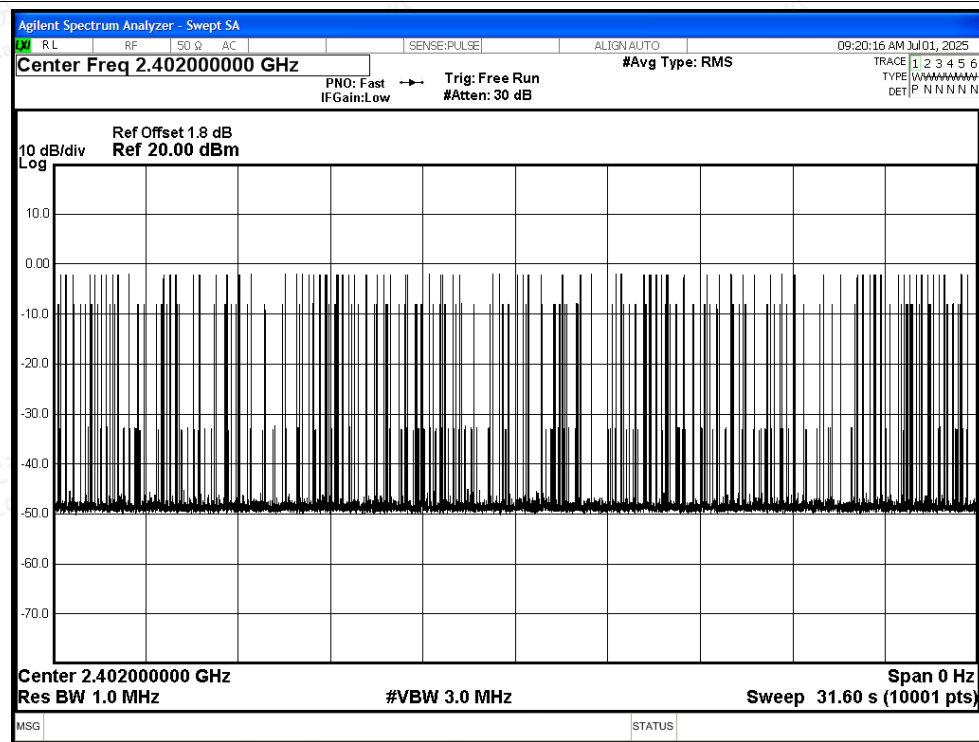
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Dwell NVNT 2-DH5 2402MHz Ant One Burst

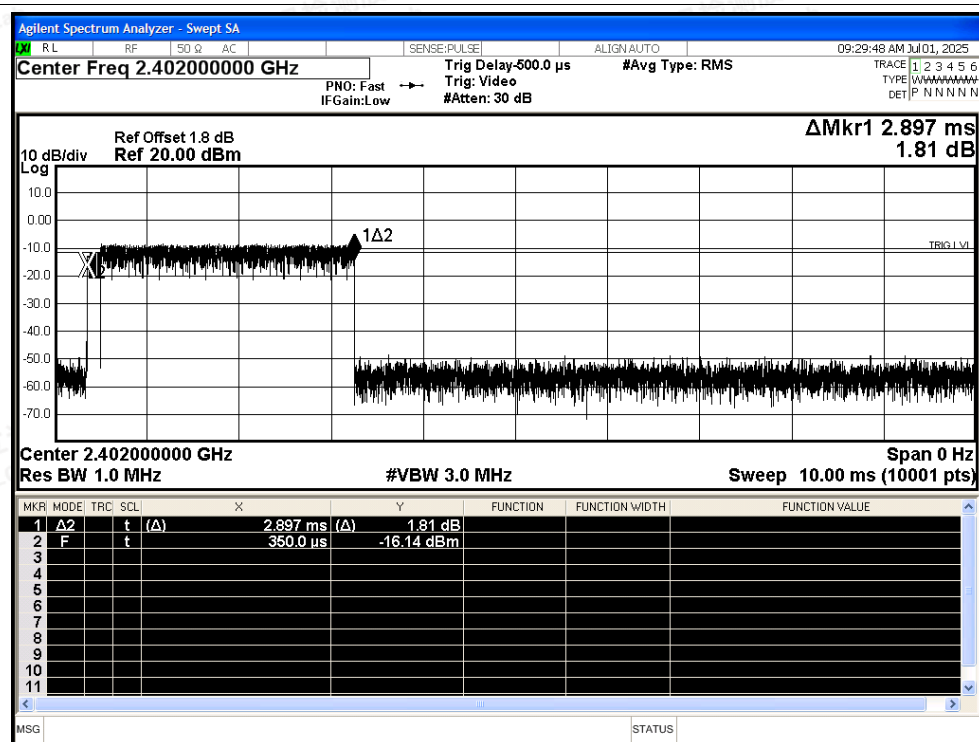


Dwell NVNT 2-DH5 2402MHz Ant Accumulated

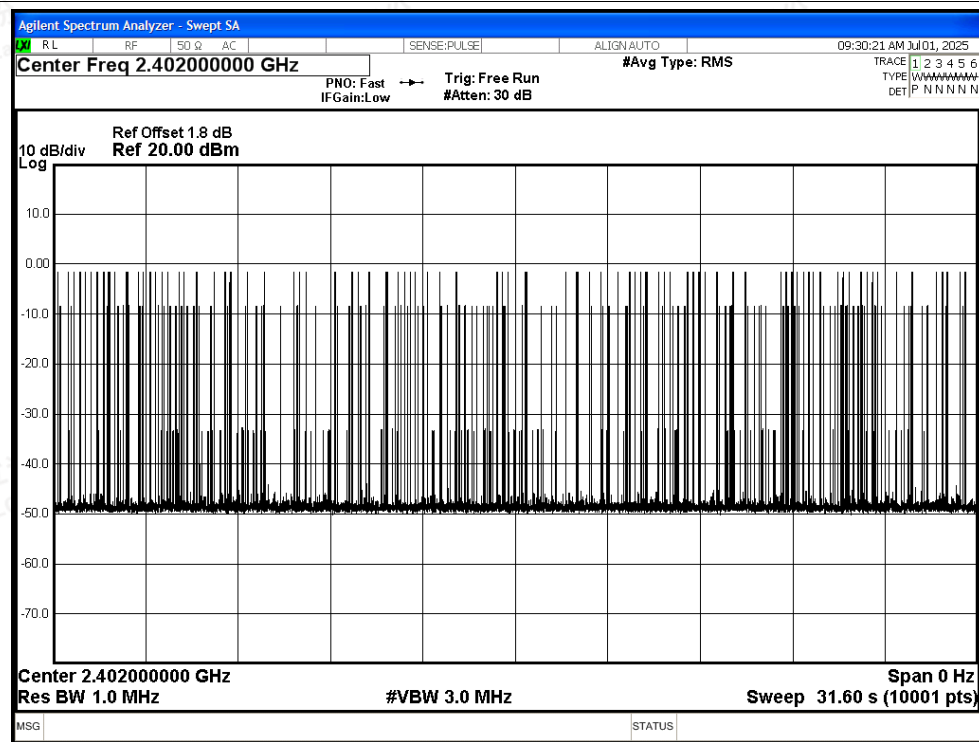




Dwell NVNT 3-DH5 2402MHz Ant One Burst



Dwell NVNT 3-DH5 2402MHz Ant Accumulated





A.5 Number of Hopping Channel

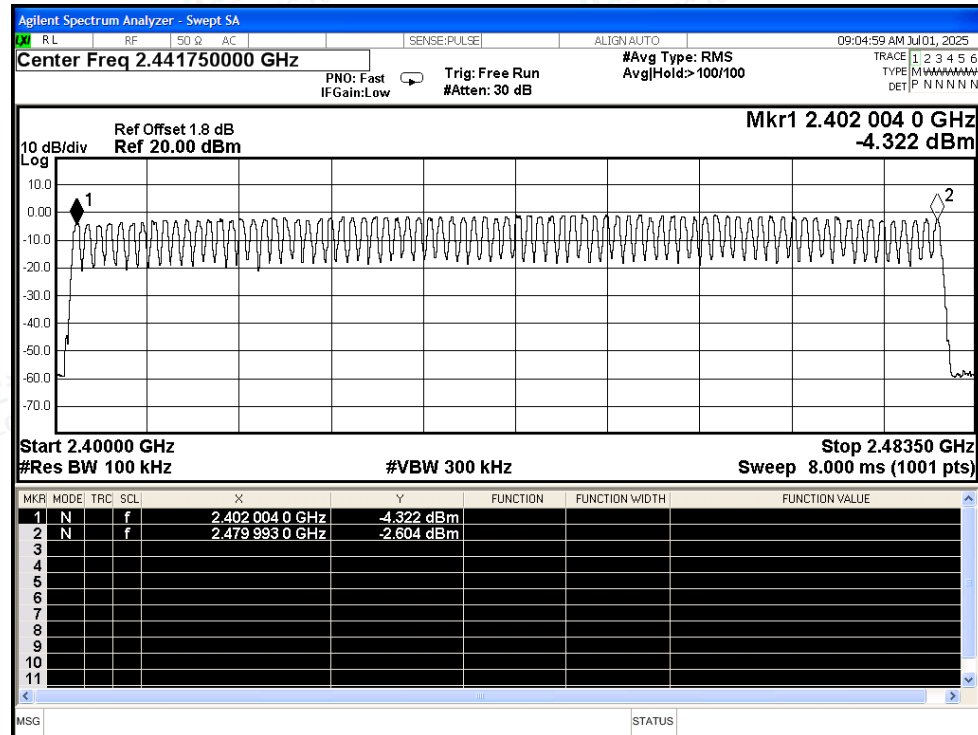
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant	79	15	Pass
NVNT	2-DH5	Ant	79	15	Pass
NVNT	3-DH5	Ant	79	15	Pass



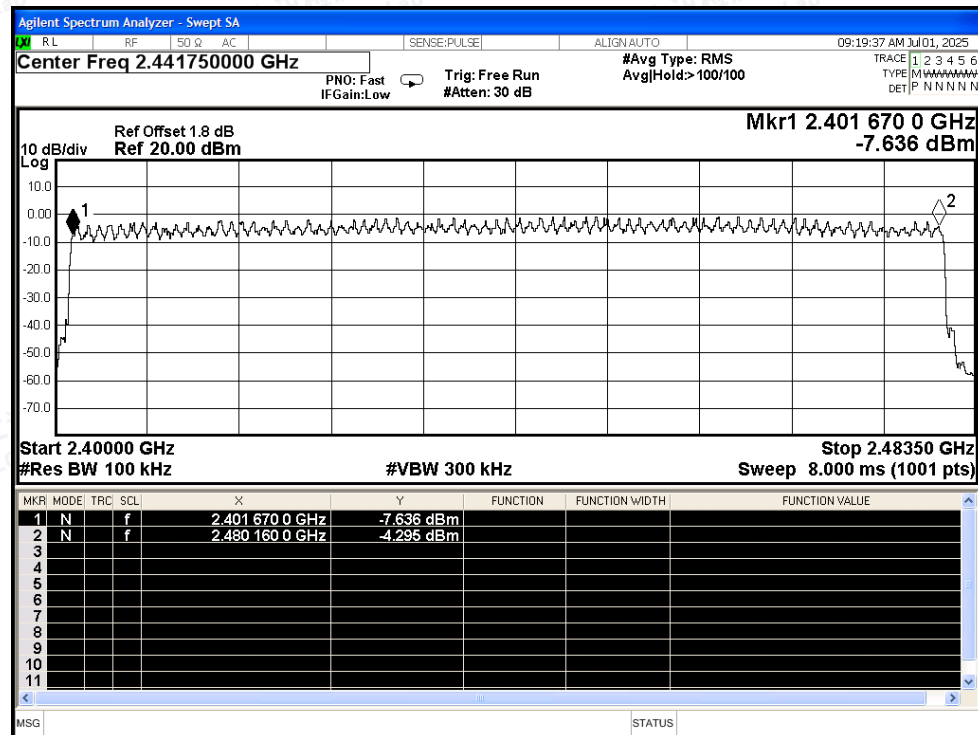


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant



Hopping No. NVNT 2-DH5 2402MHz Ant

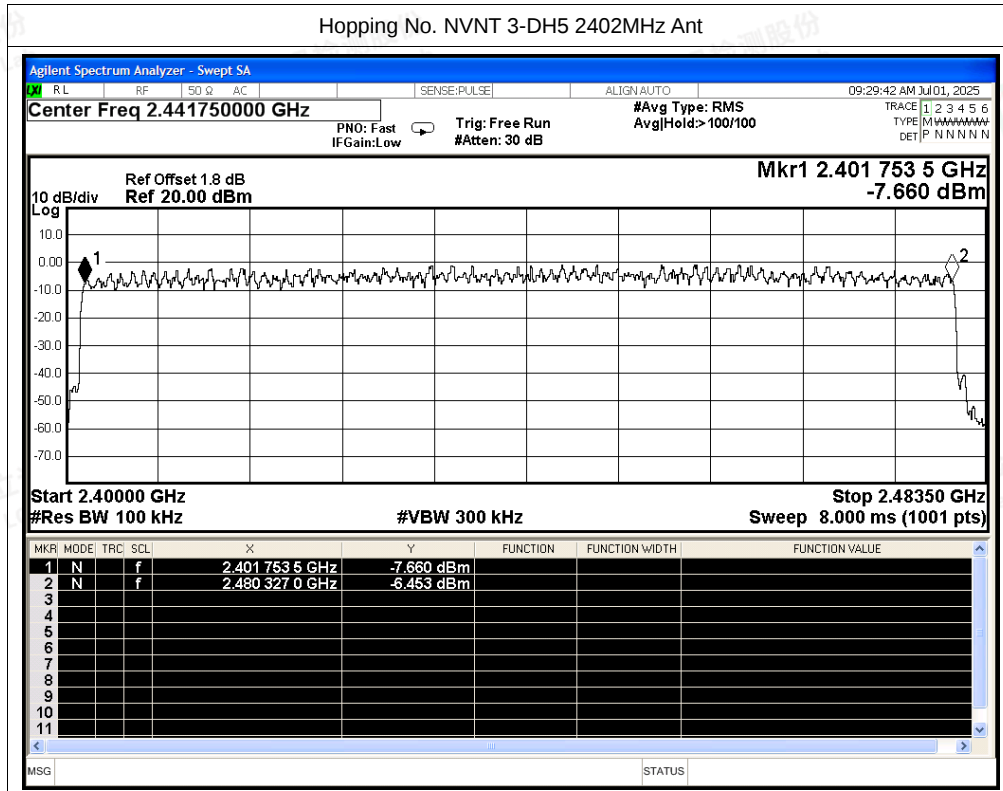


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A.6 Band Edge

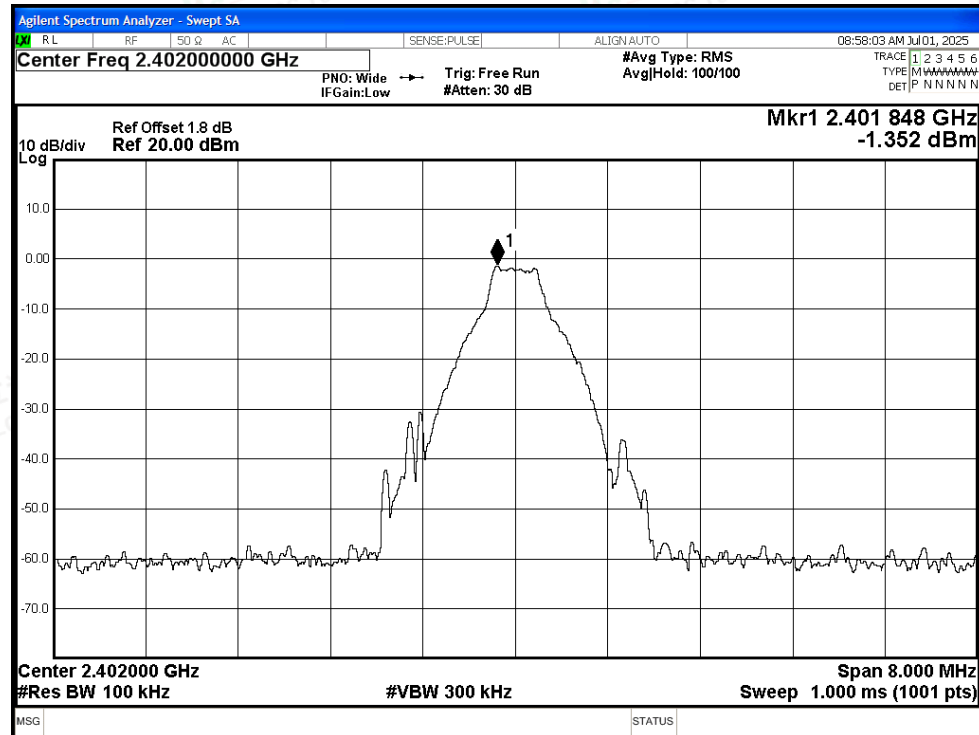
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-55.13	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-53.58	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-52.24	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-55.2	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-51.24	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-55.09	-20	Pass



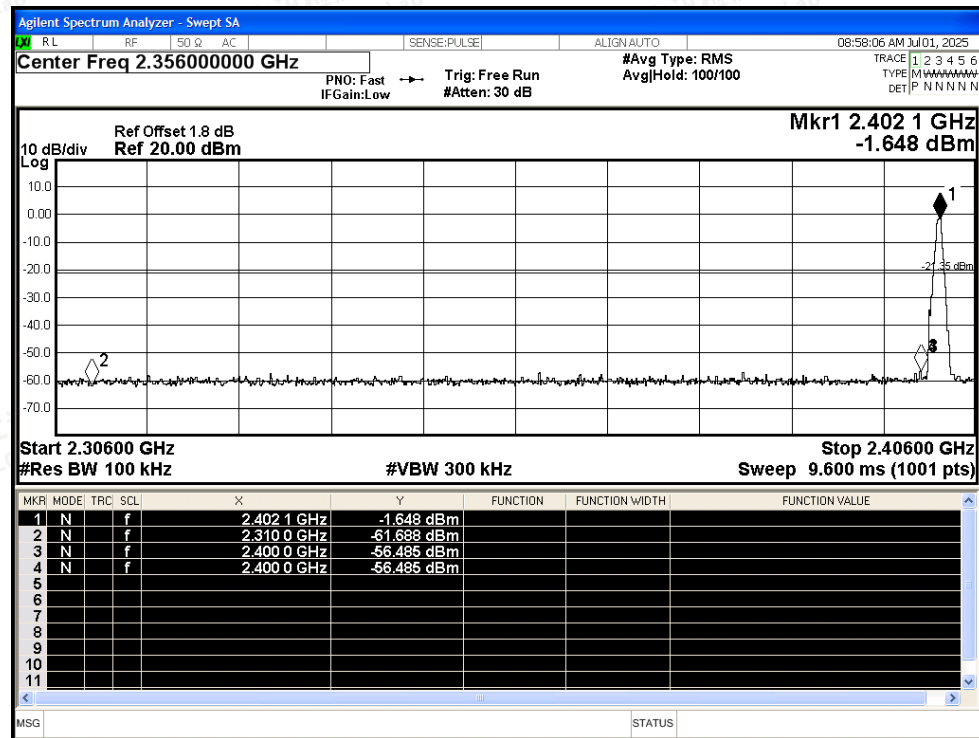


Test Graphs

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



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



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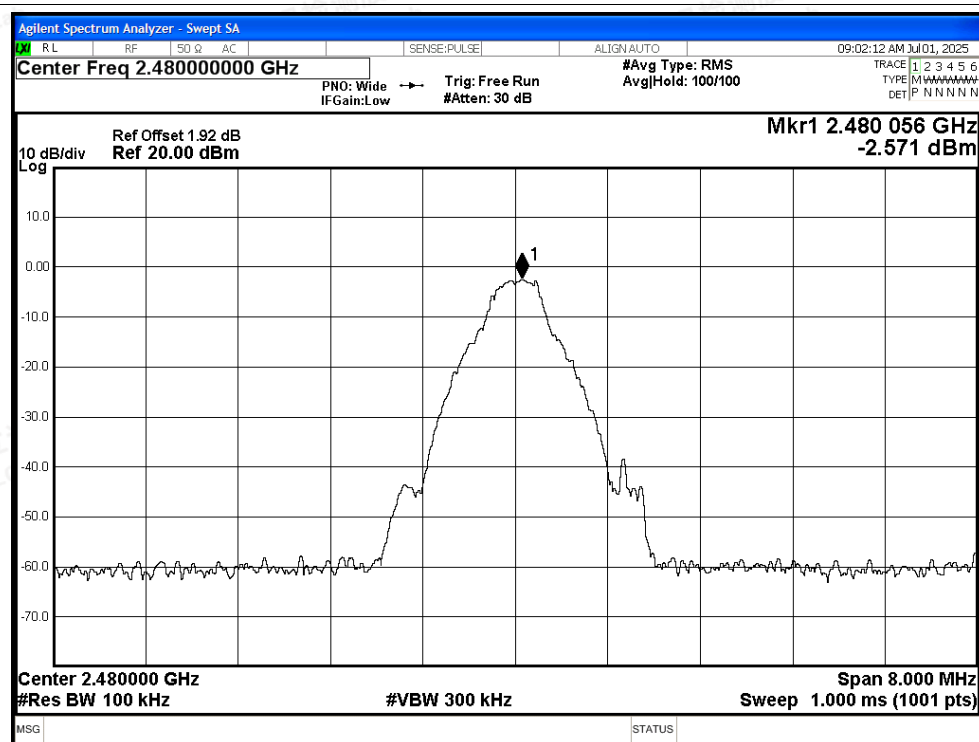
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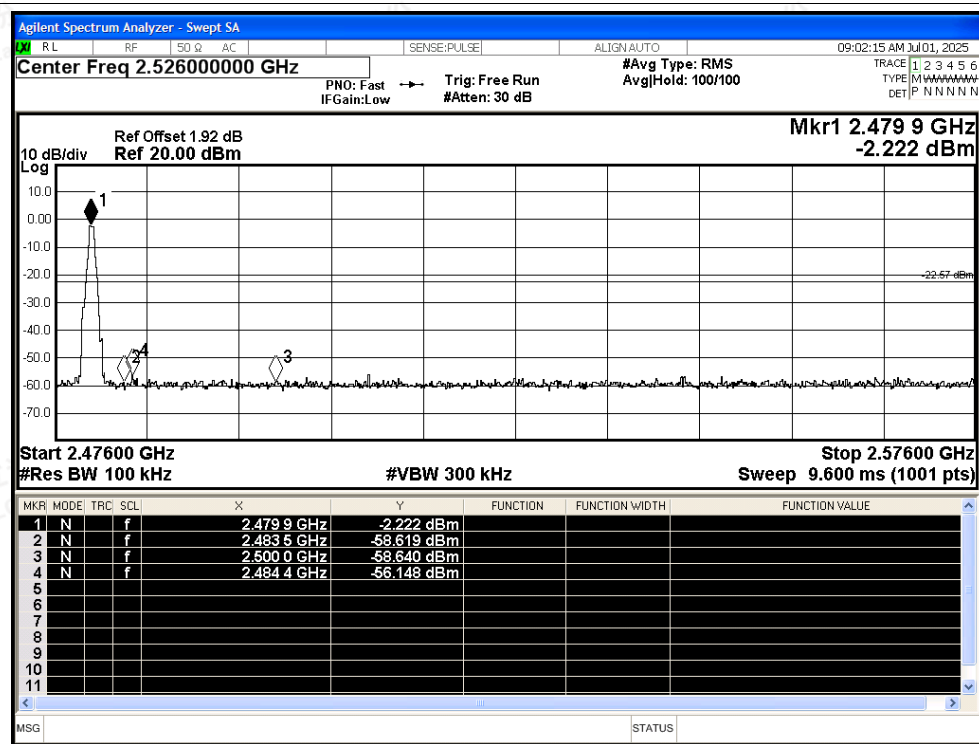
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

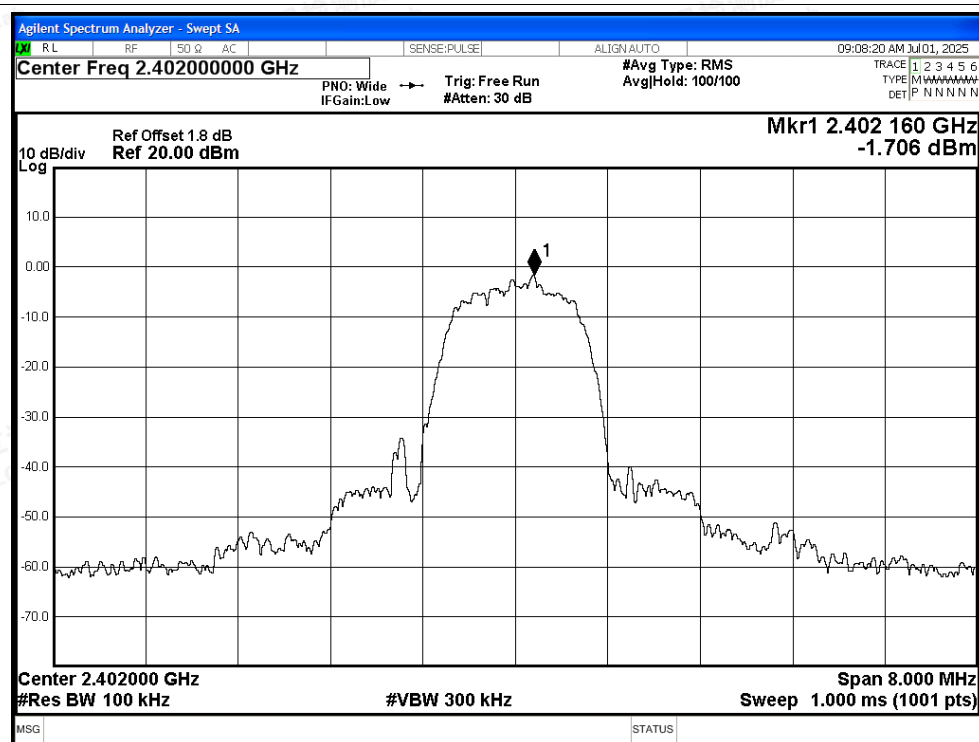
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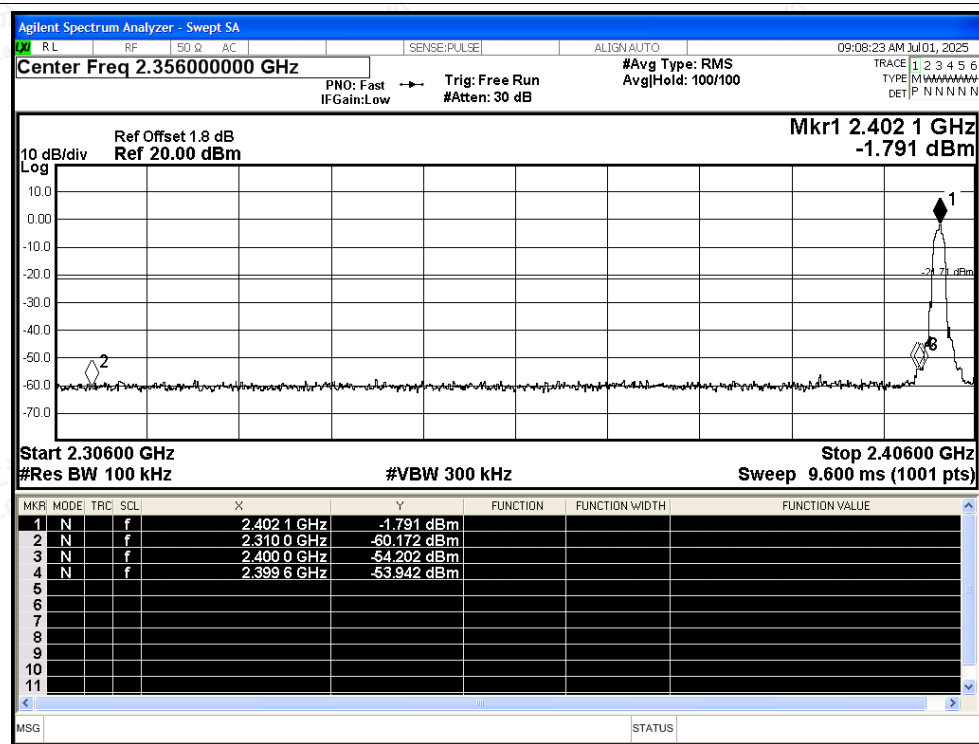
Scan code to check authenticity



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

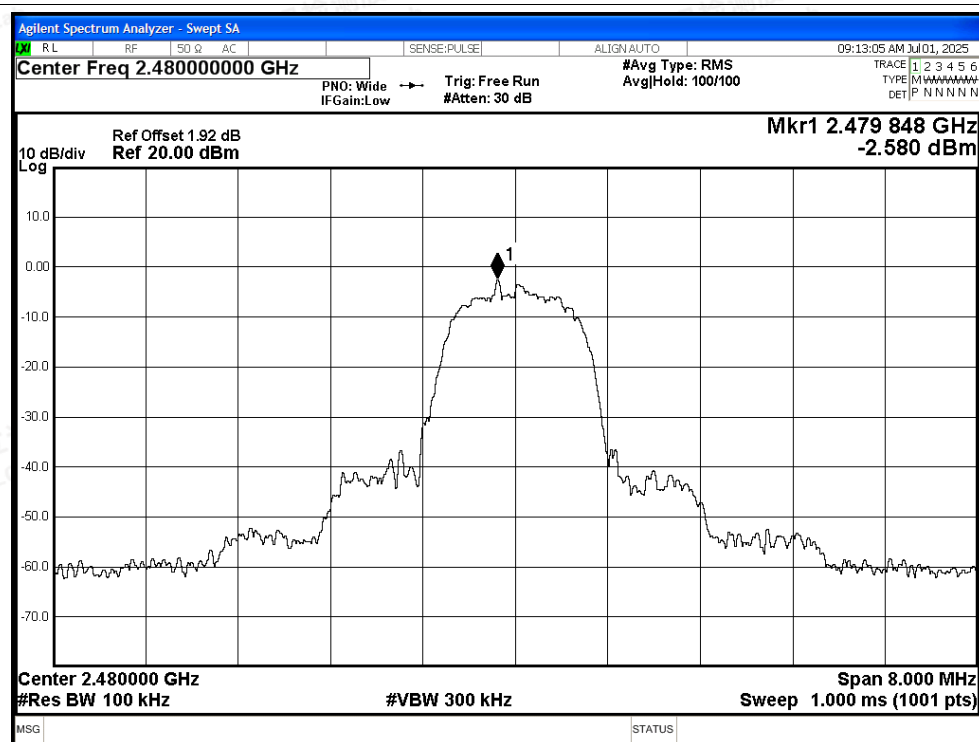


Band Edge NVNT 2-DH5 2402MHz Ant No-Hopping Emission

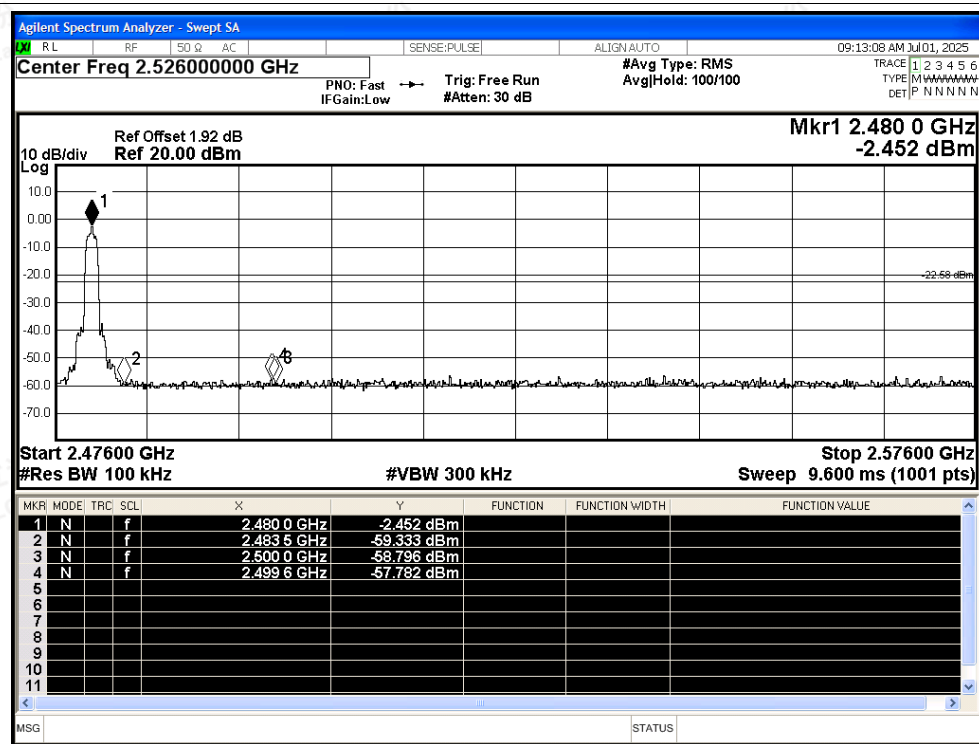




Band Edge NVNT 2-DH5 2480MHz Ant No-Hopping Ref



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



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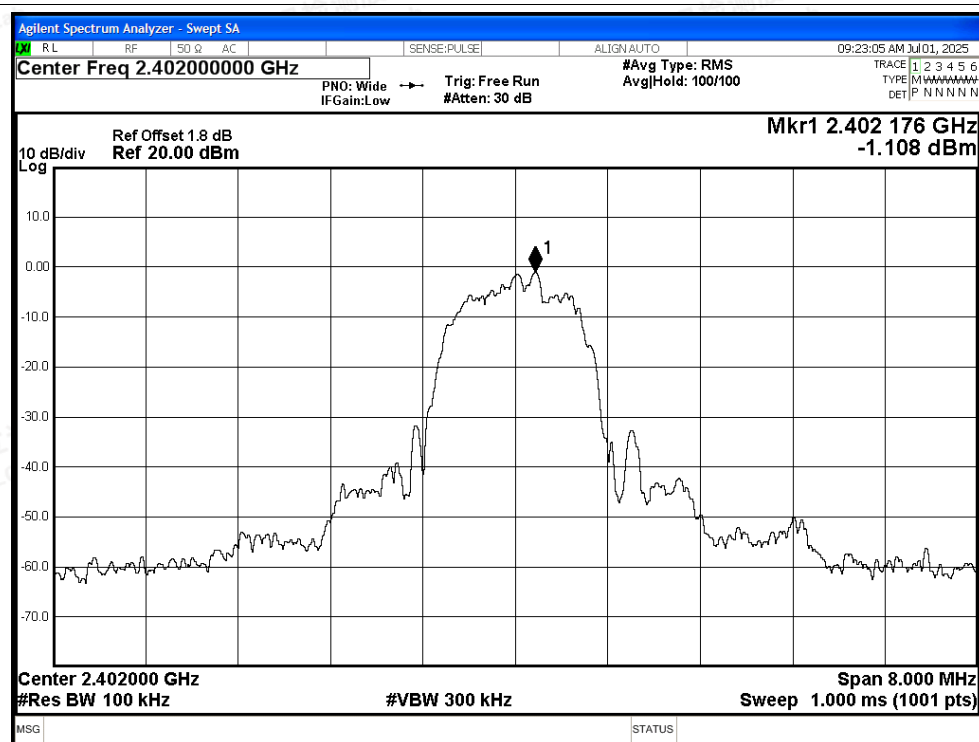
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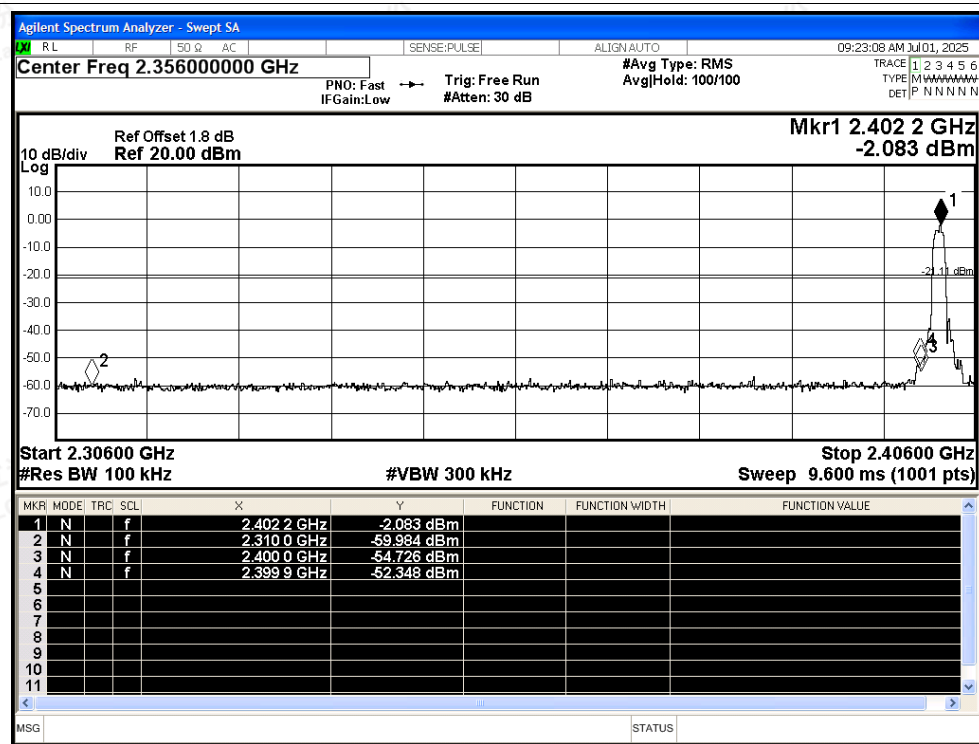
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

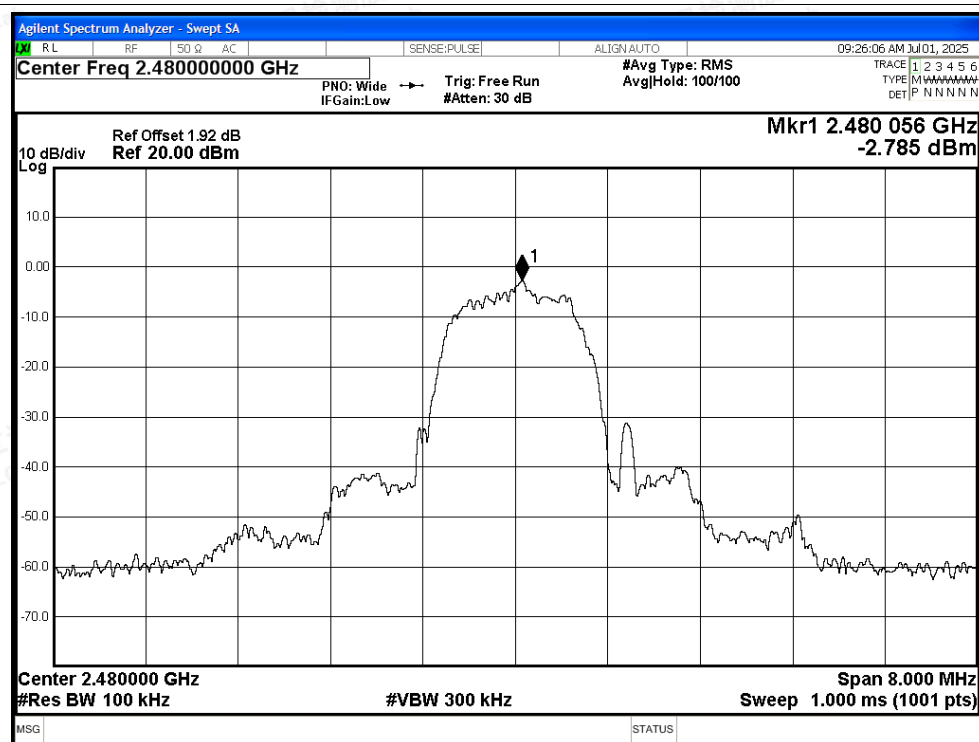
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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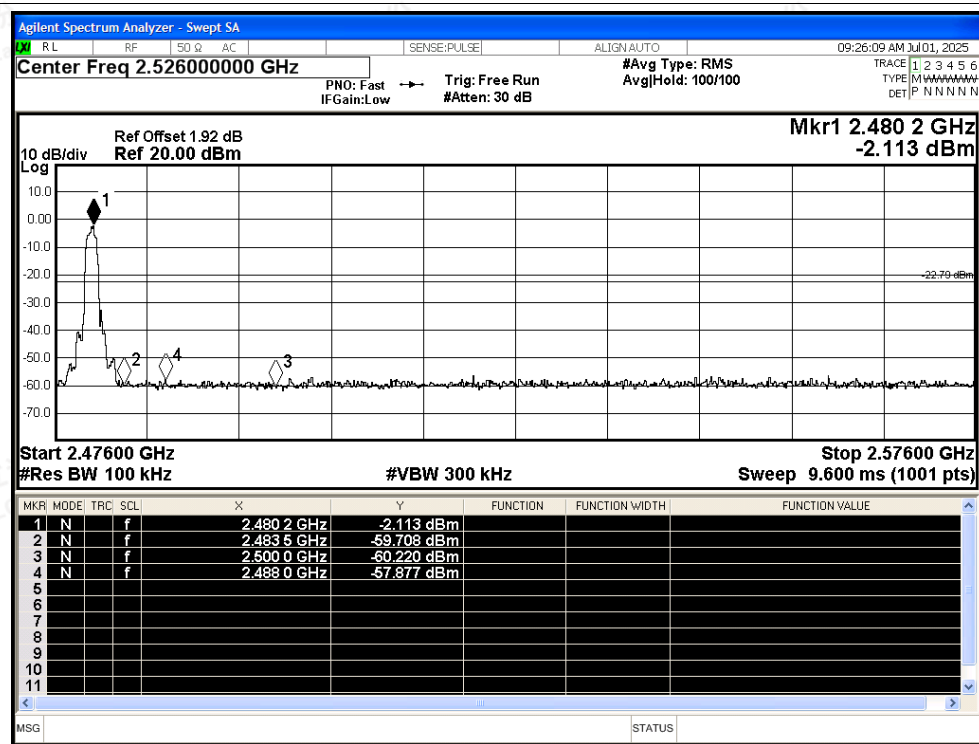
Scan code to check authenticity



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



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





(Hopping)

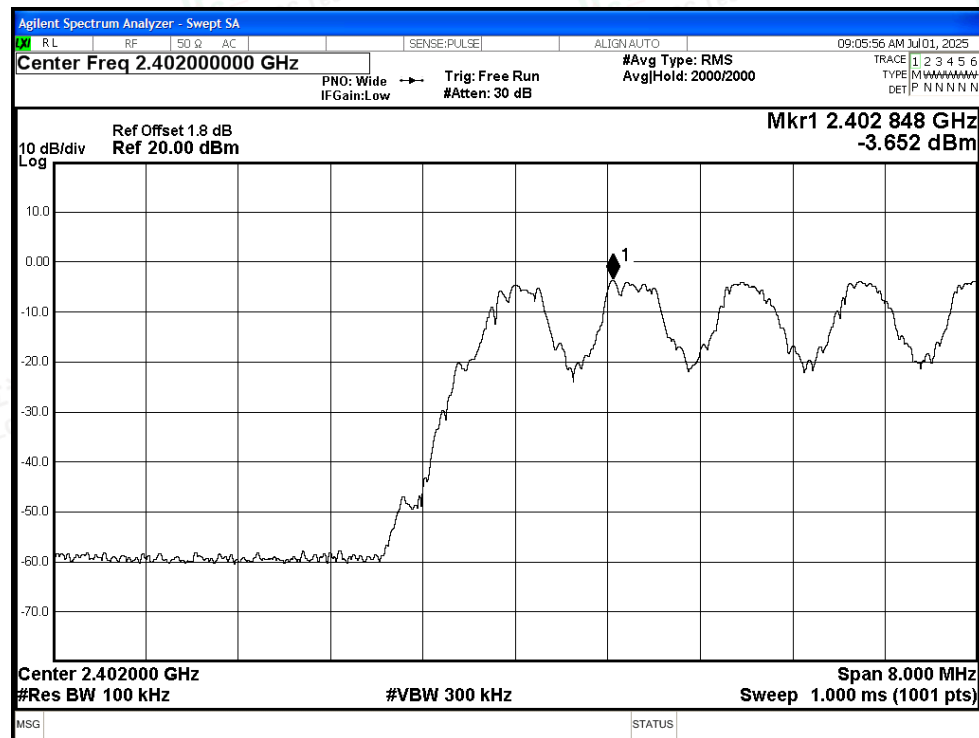
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	Hopping	-52.81	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-54.28	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-52.4	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-54.13	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-52.47	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-54.03	-20	Pass



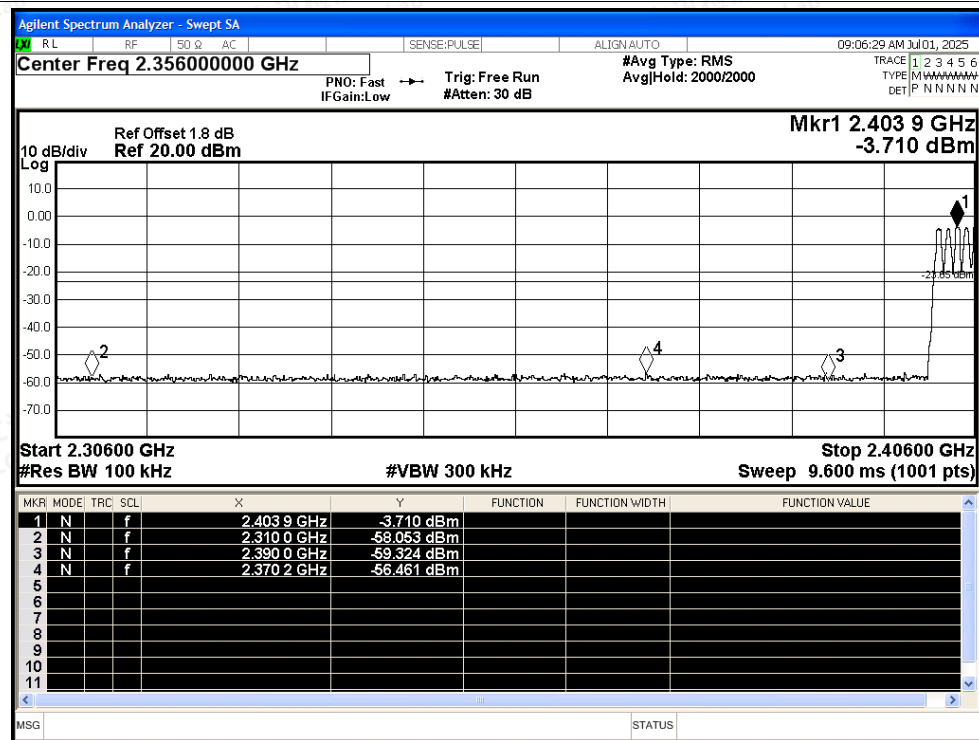


Test Graphs

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



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



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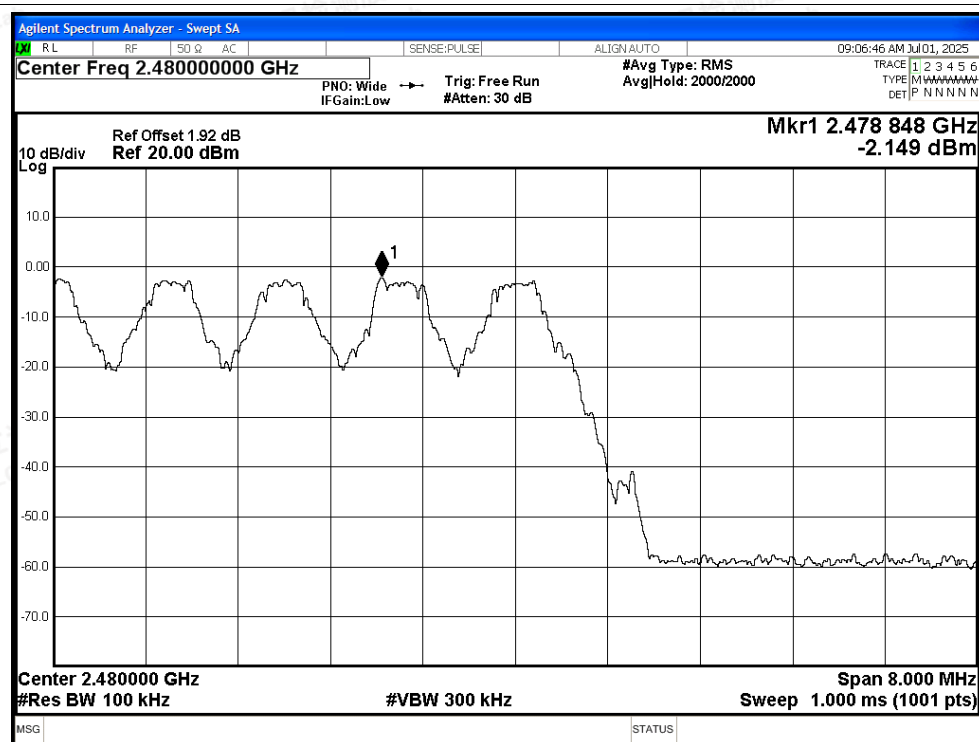
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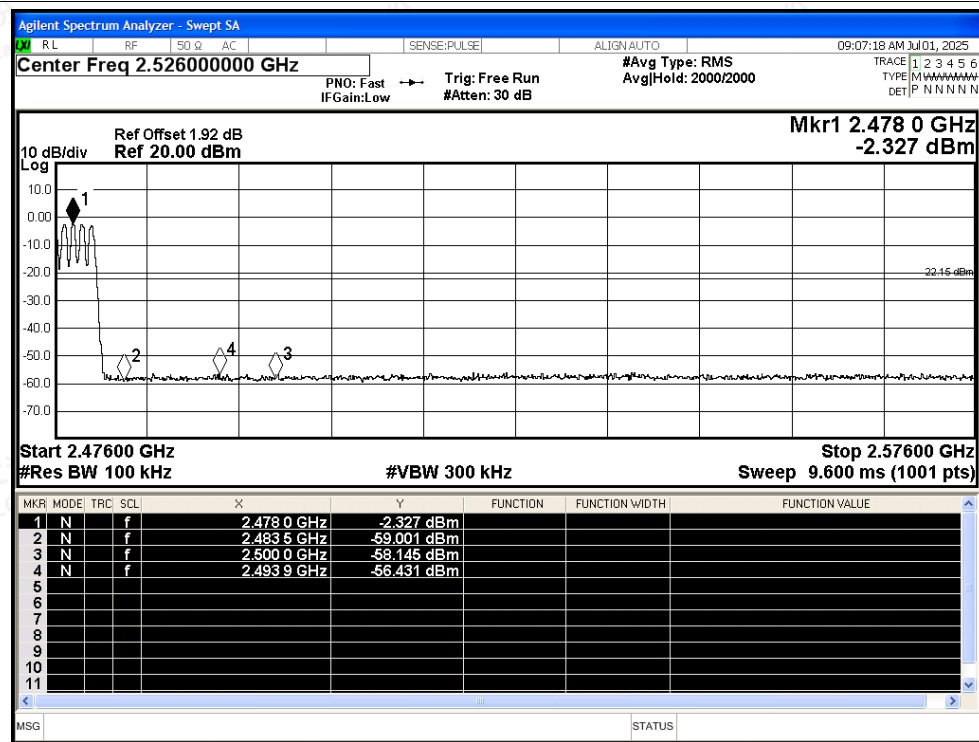
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Ref



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

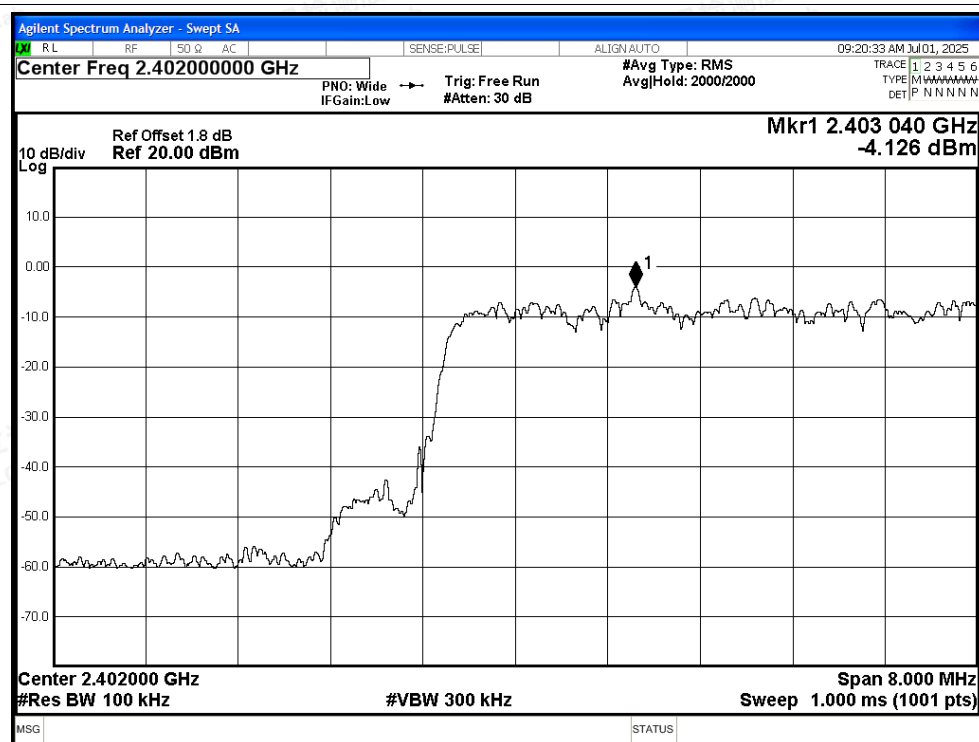
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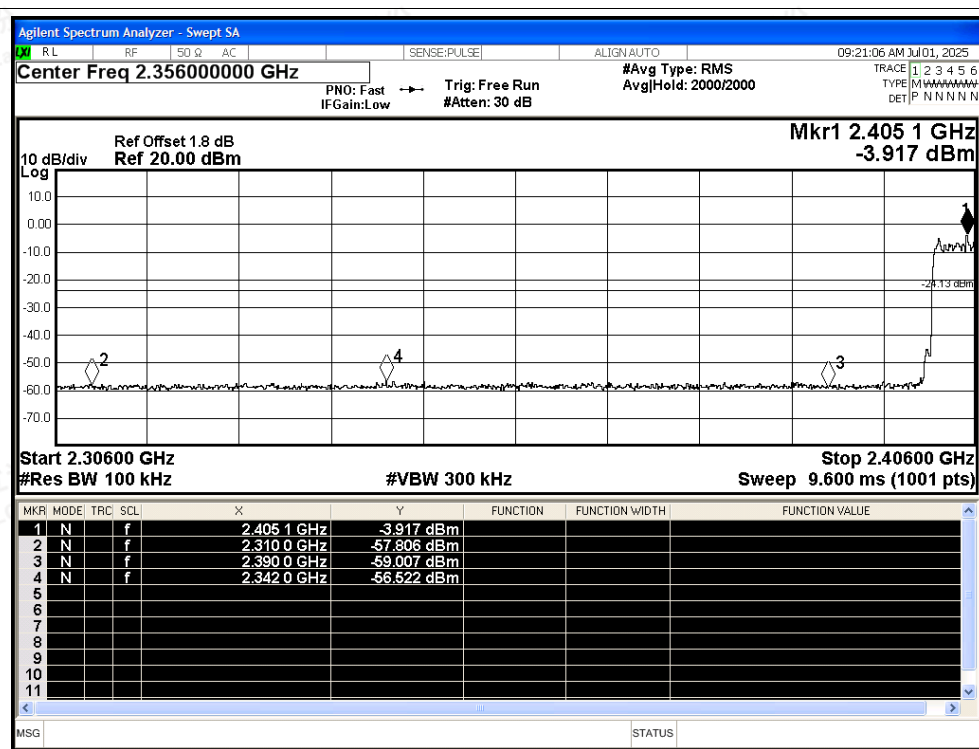
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Ref



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



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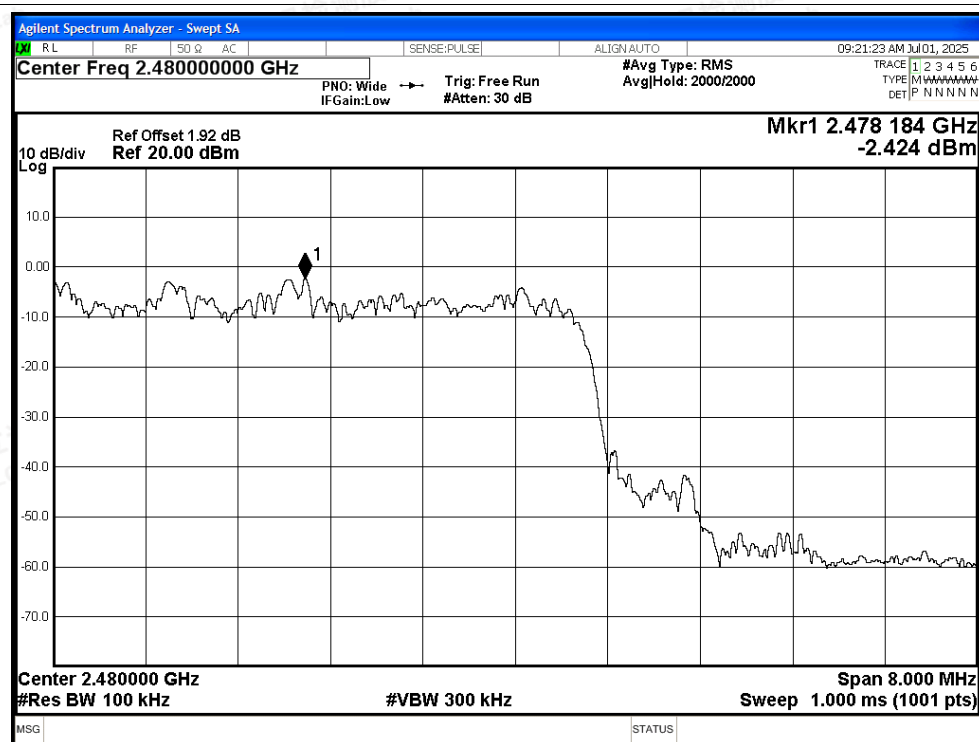
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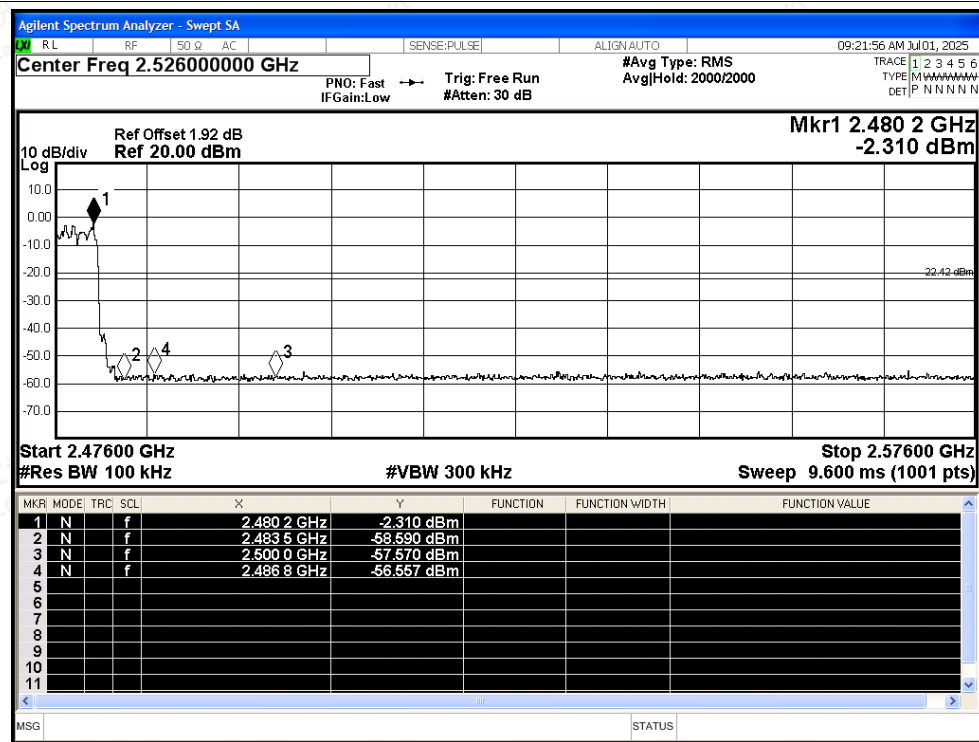
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Ref



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



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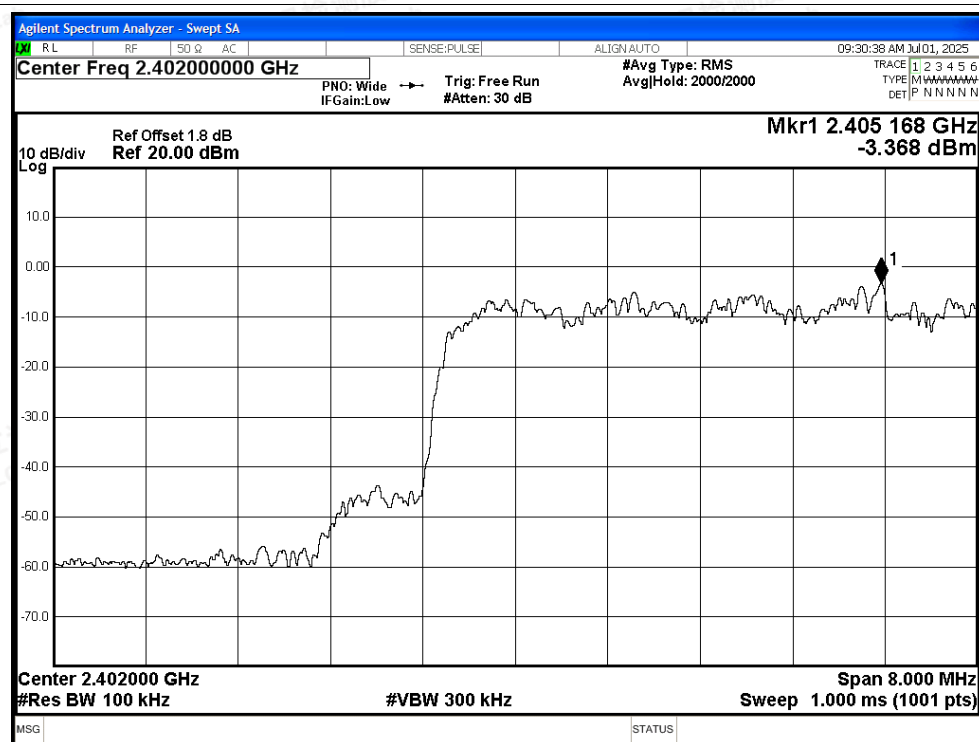
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

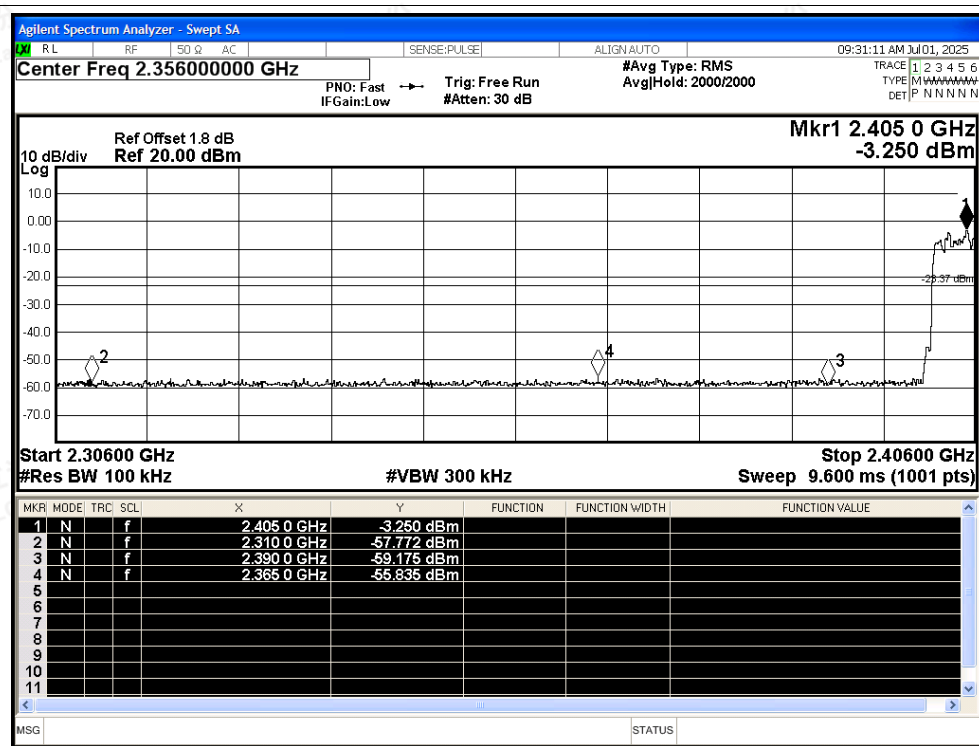
Scan code to check authenticity



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



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



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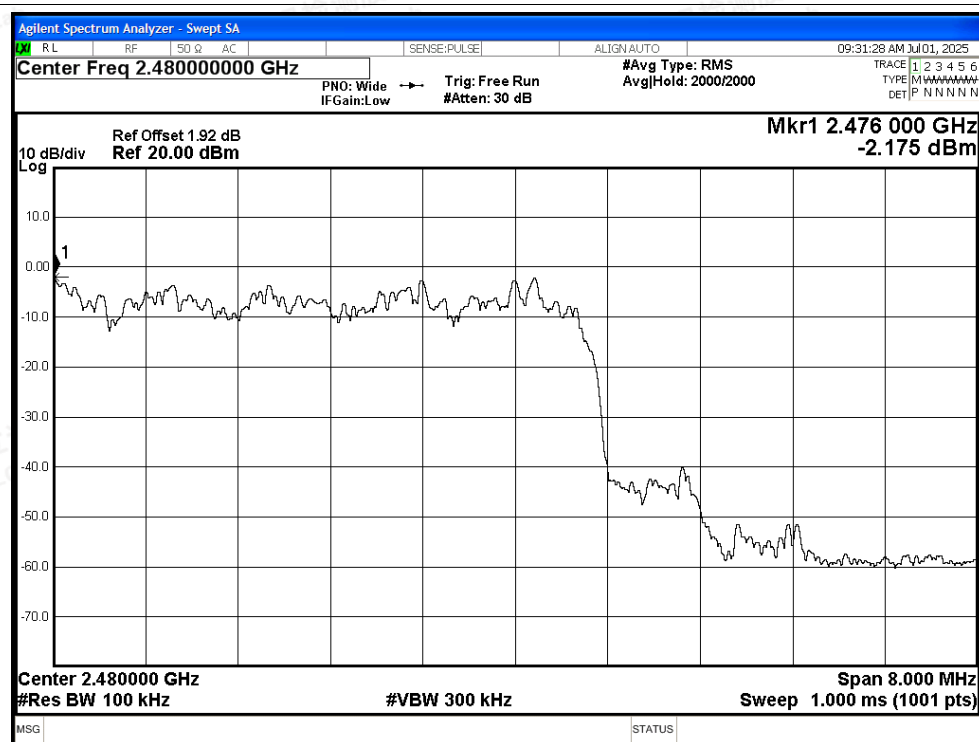
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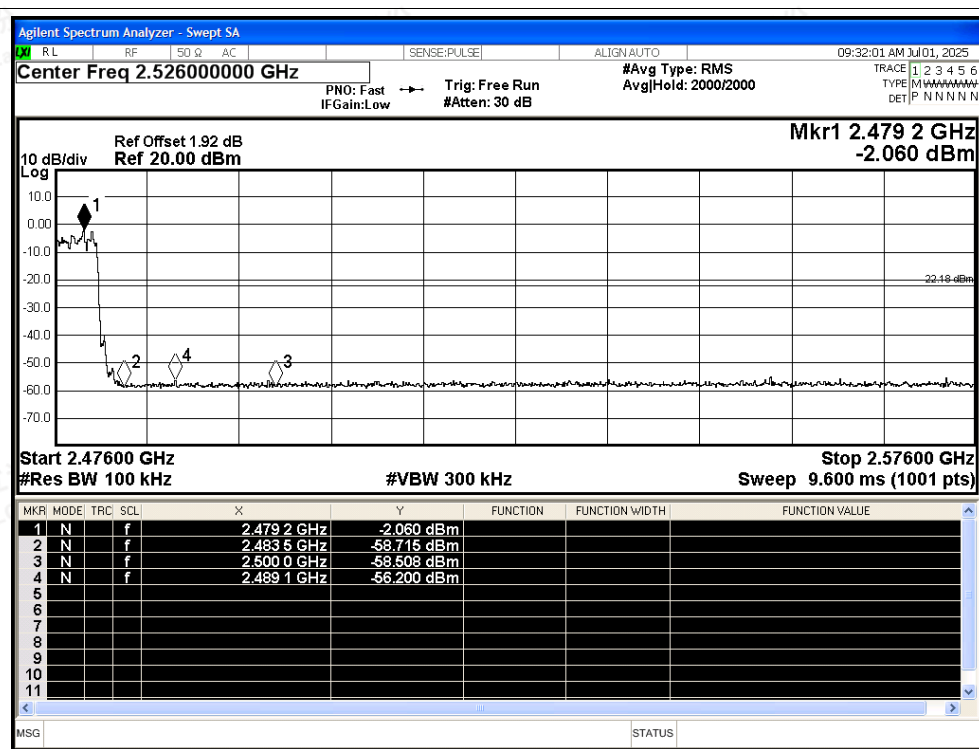
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Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant Hopping Ref



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



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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	-53.17	-20	Pass
NVNT	1-DH5	2441	Ant	-54.21	-20	Pass
NVNT	1-DH5	2480	Ant	-53.21	-20	Pass
NVNT	2-DH5	2402	Ant	-53.3	-20	Pass
NVNT	2-DH5	2441	Ant	-54.41	-20	Pass
NVNT	2-DH5	2480	Ant	-52.41	-20	Pass
NVNT	3-DH5	2402	Ant	-53.71	-20	Pass
NVNT	3-DH5	2441	Ant	-53.09	-20	Pass
NVNT	3-DH5	2480	Ant	-53.59	-20	Pass

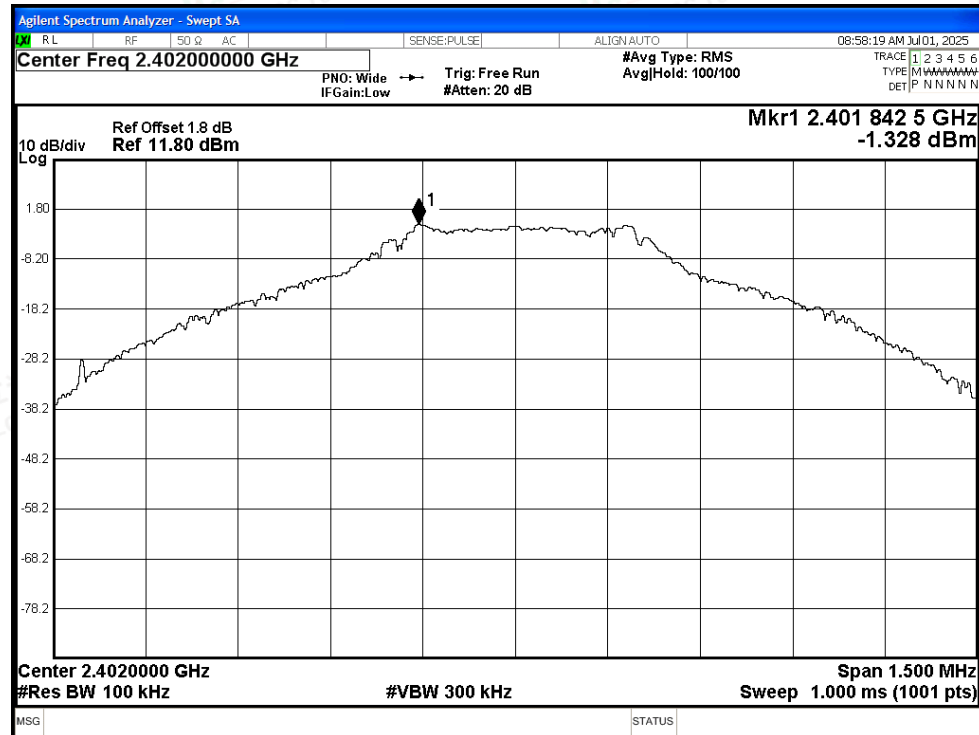


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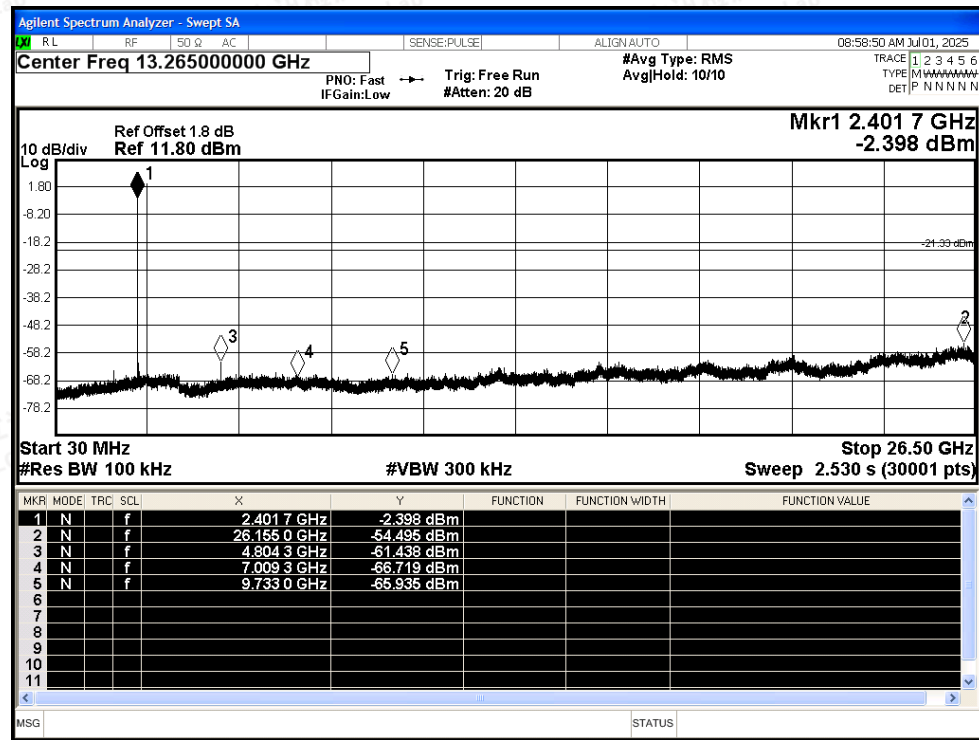


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant Emission



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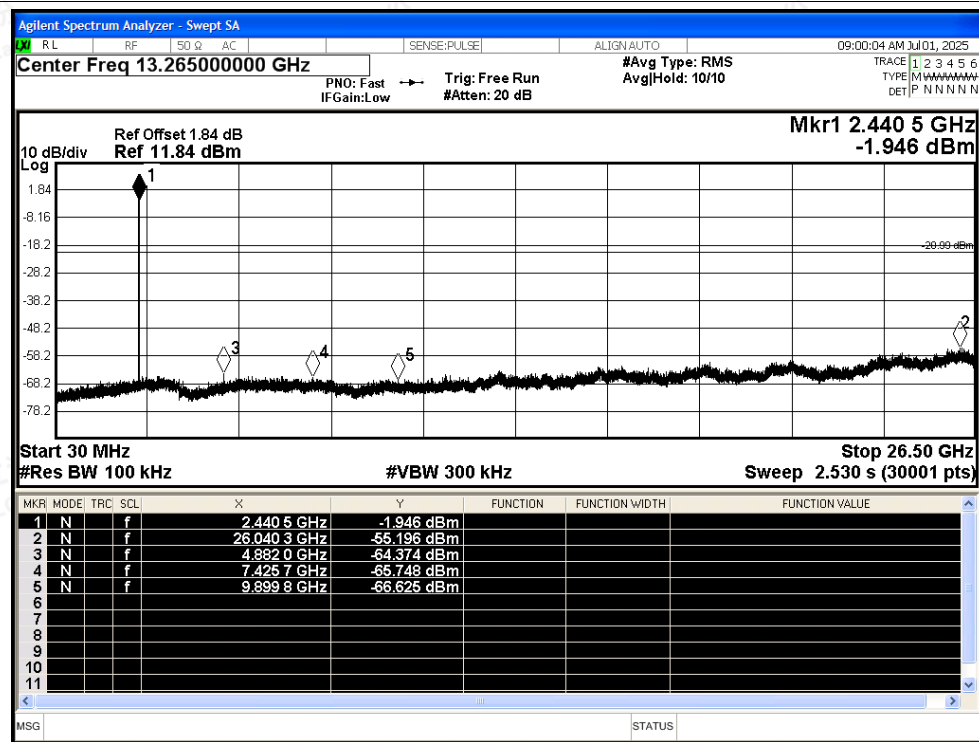
Scan code to check authenticity



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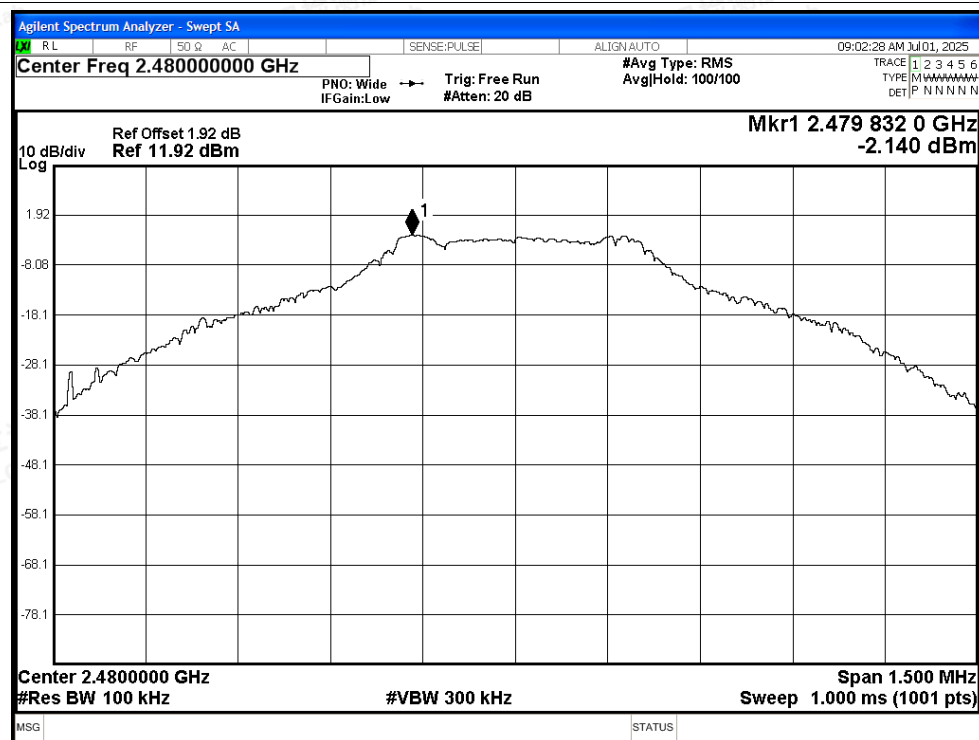


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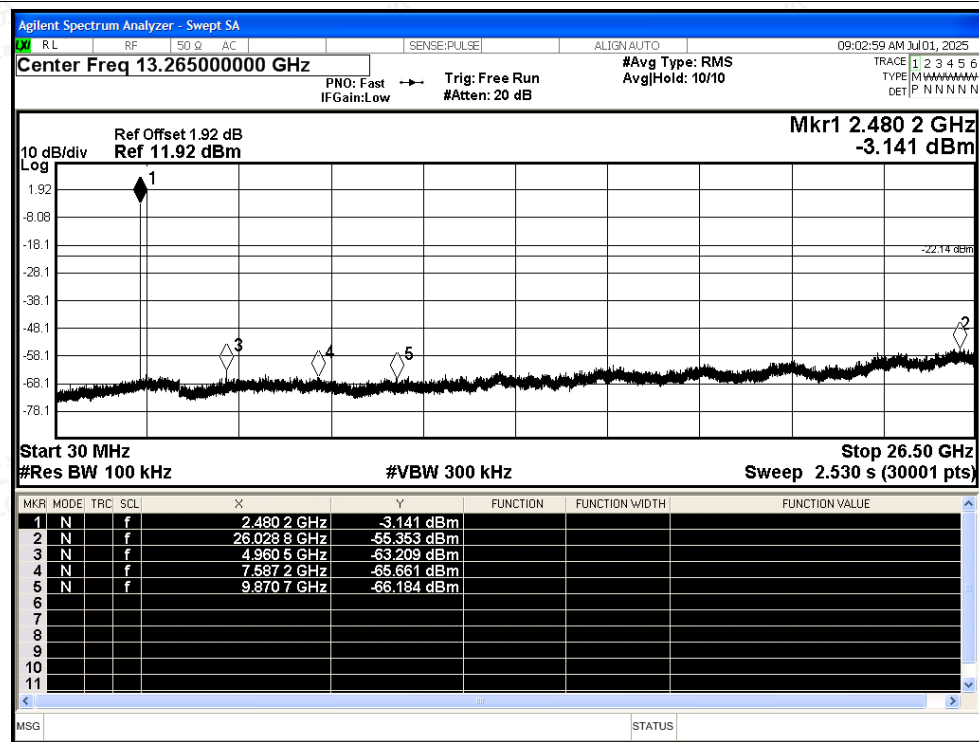




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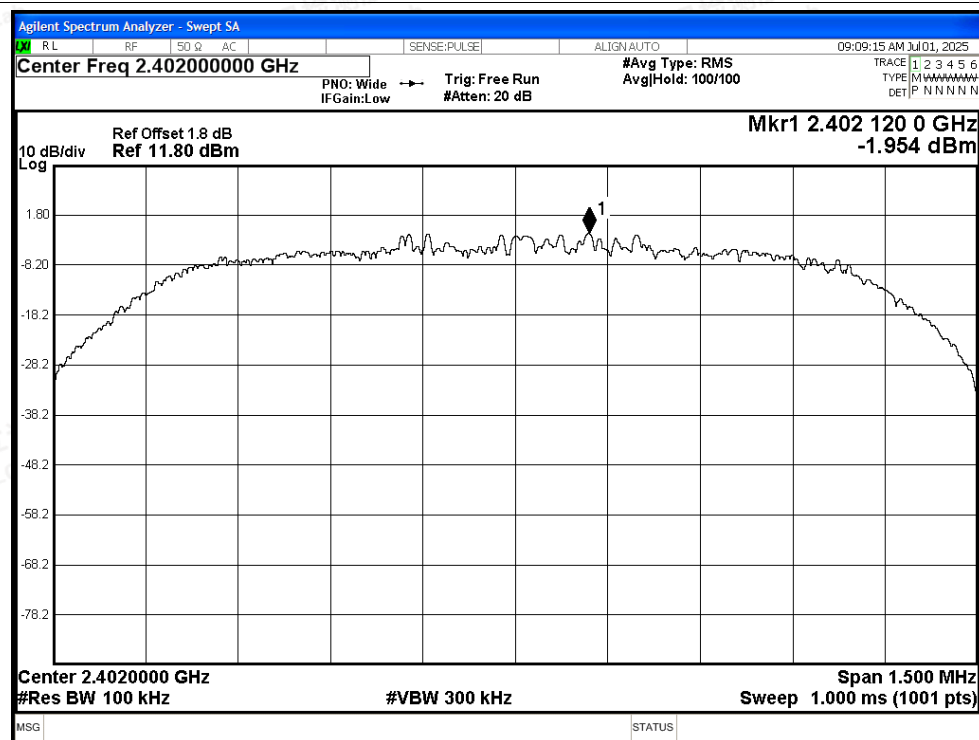


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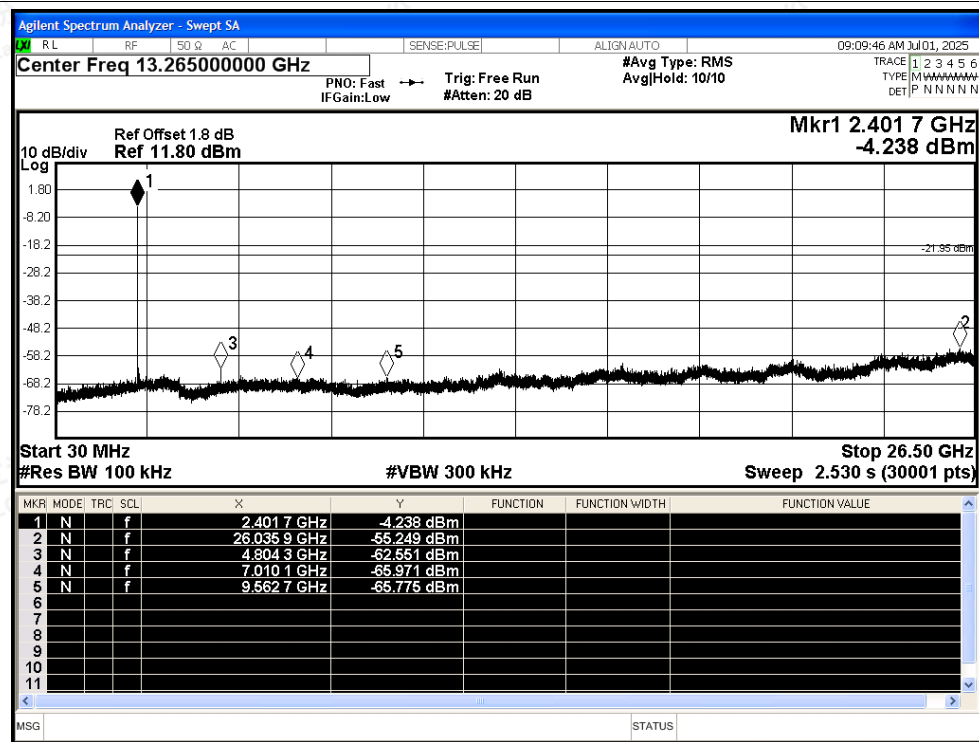




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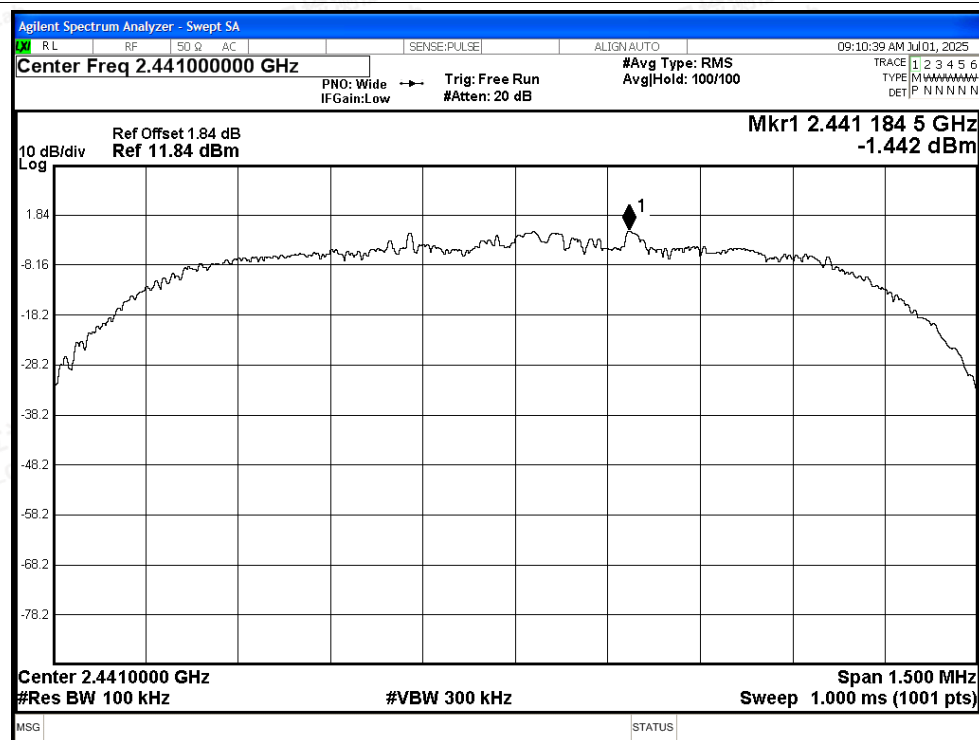


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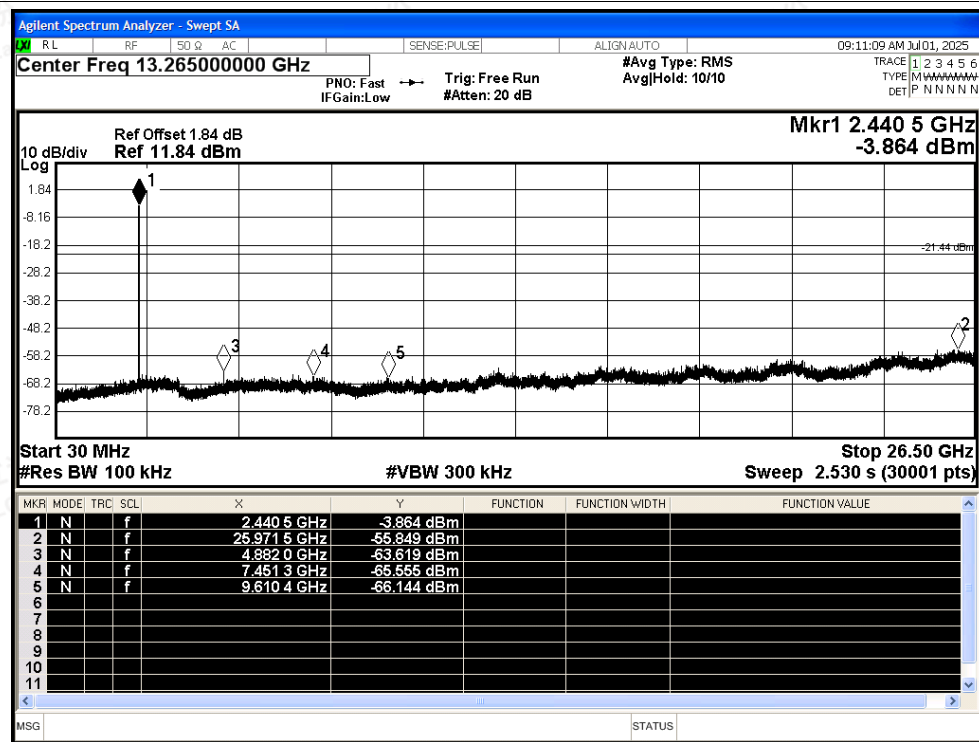




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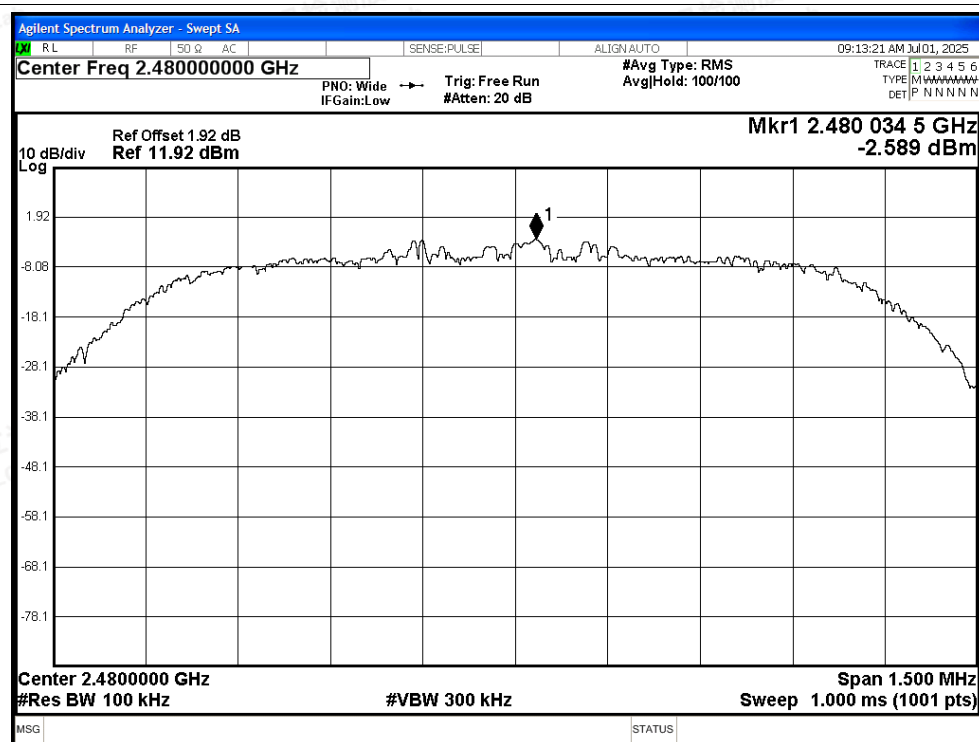


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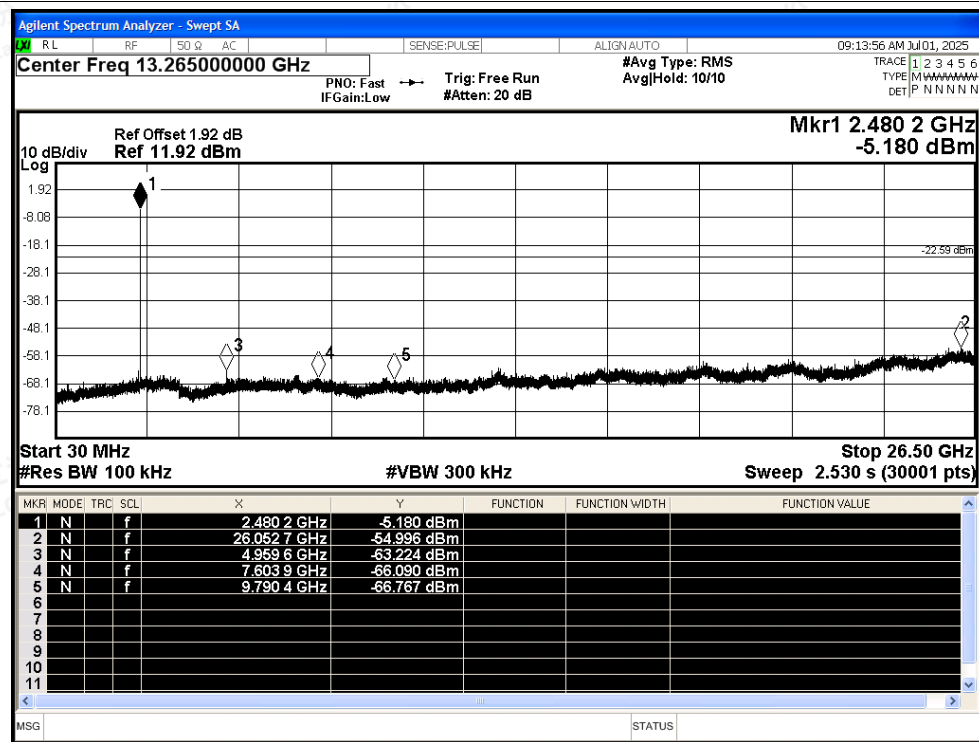




Tx. Spurious NVNT 2-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant Emission



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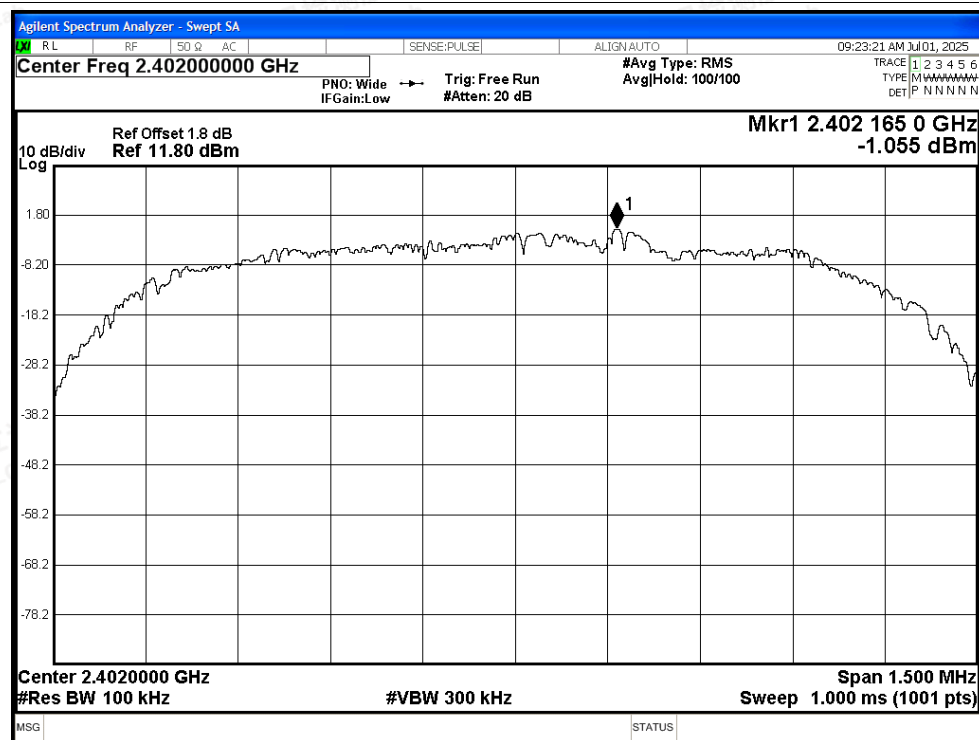
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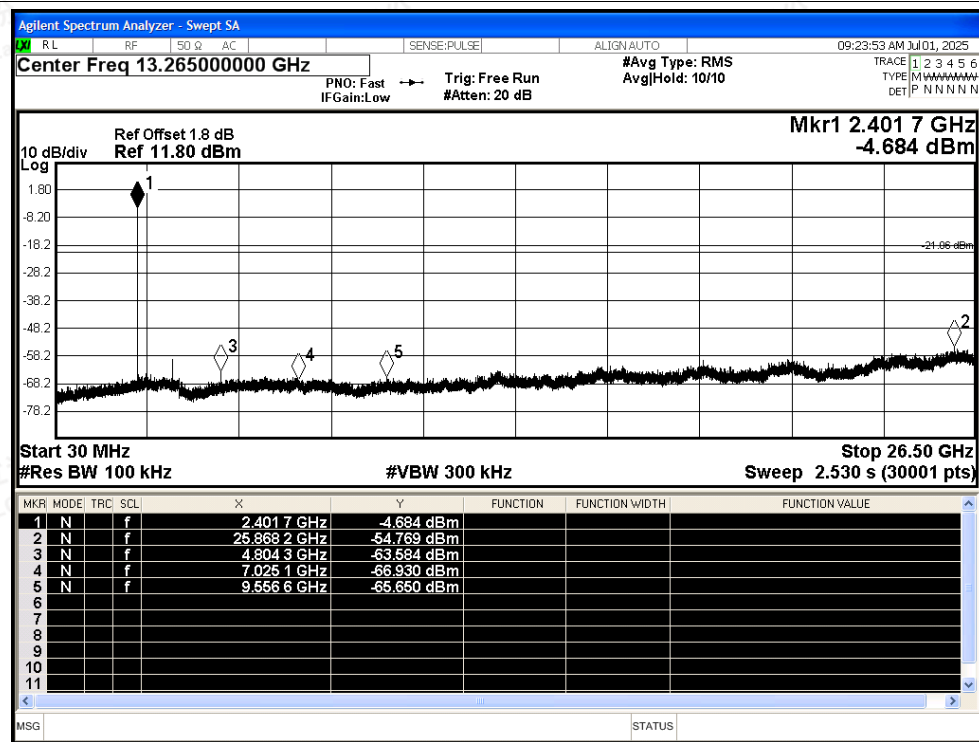
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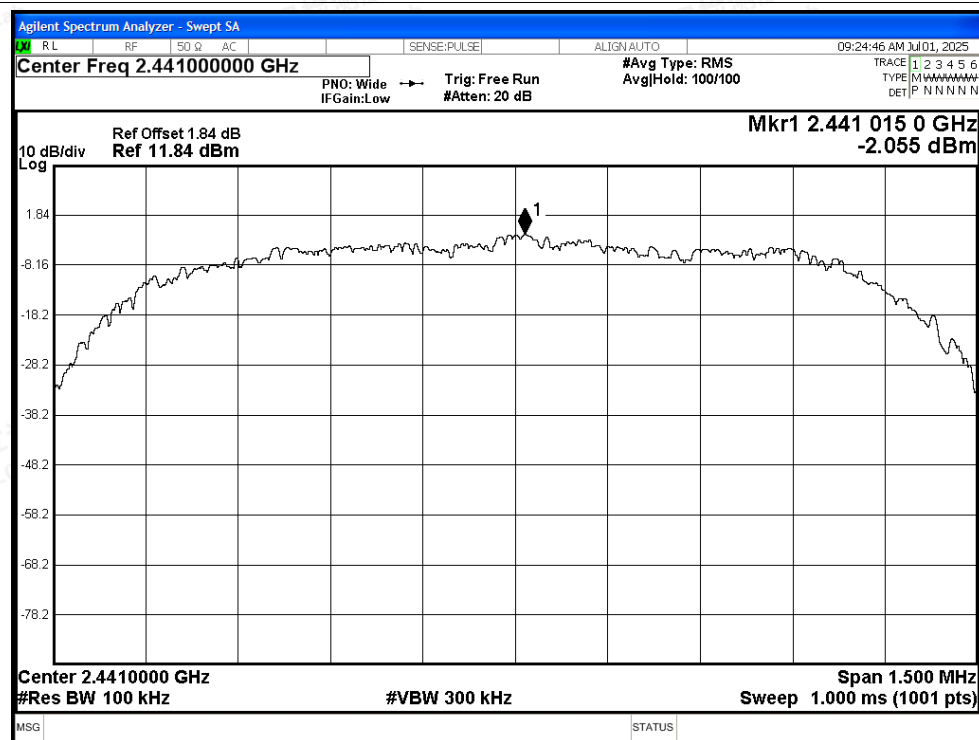


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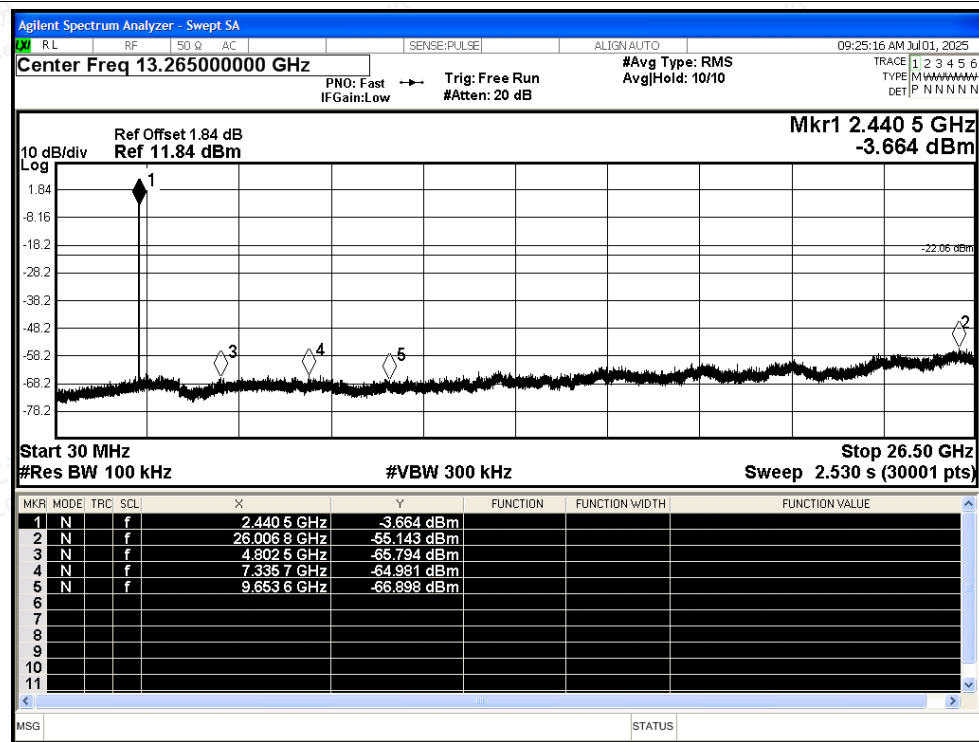




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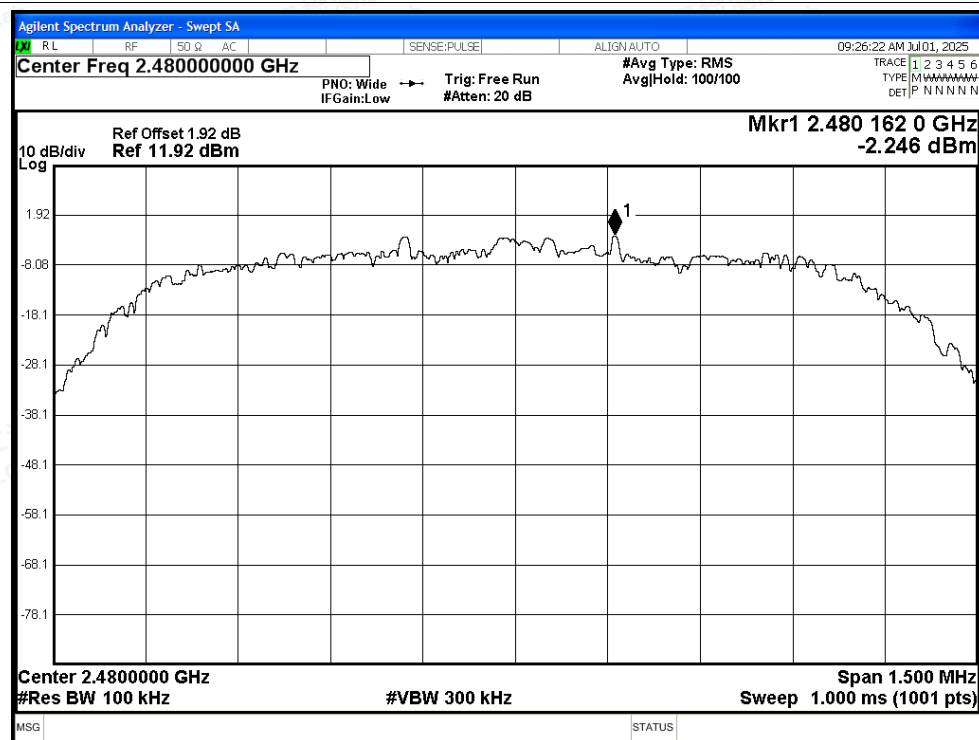


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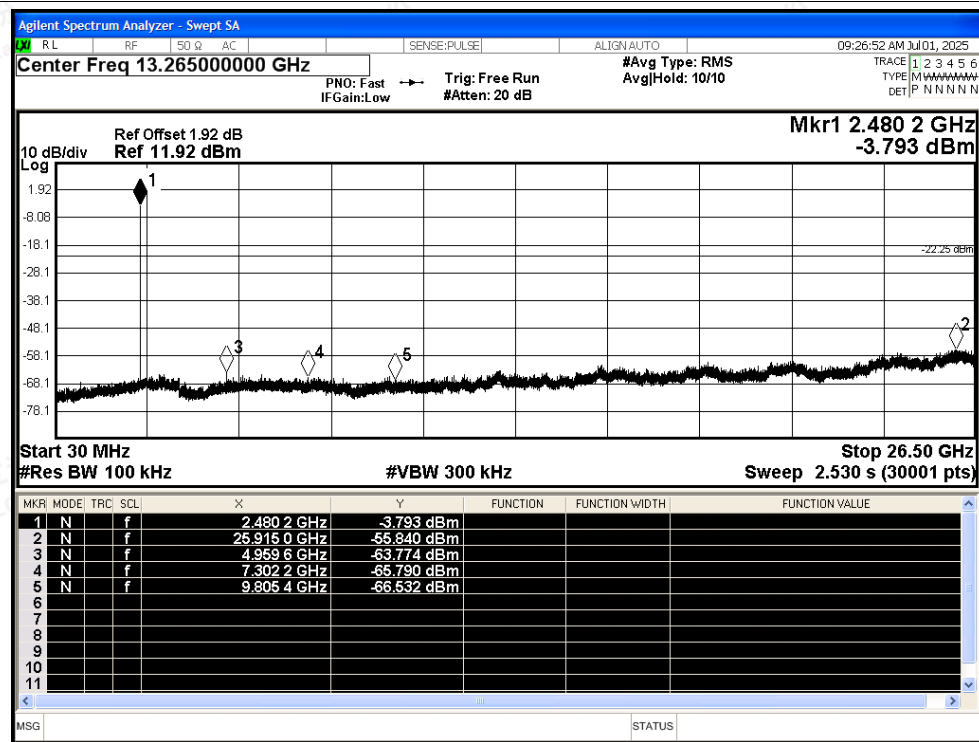




Tx. Spurious NVNT 3-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant Emission



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A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant	77.63	1.1	0.34
NVNT	1-DH5	2441	Ant	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant	77.33	1.12	0.34
NVNT	2-DH5	2480	Ant	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant	77.28	1.12	0.35

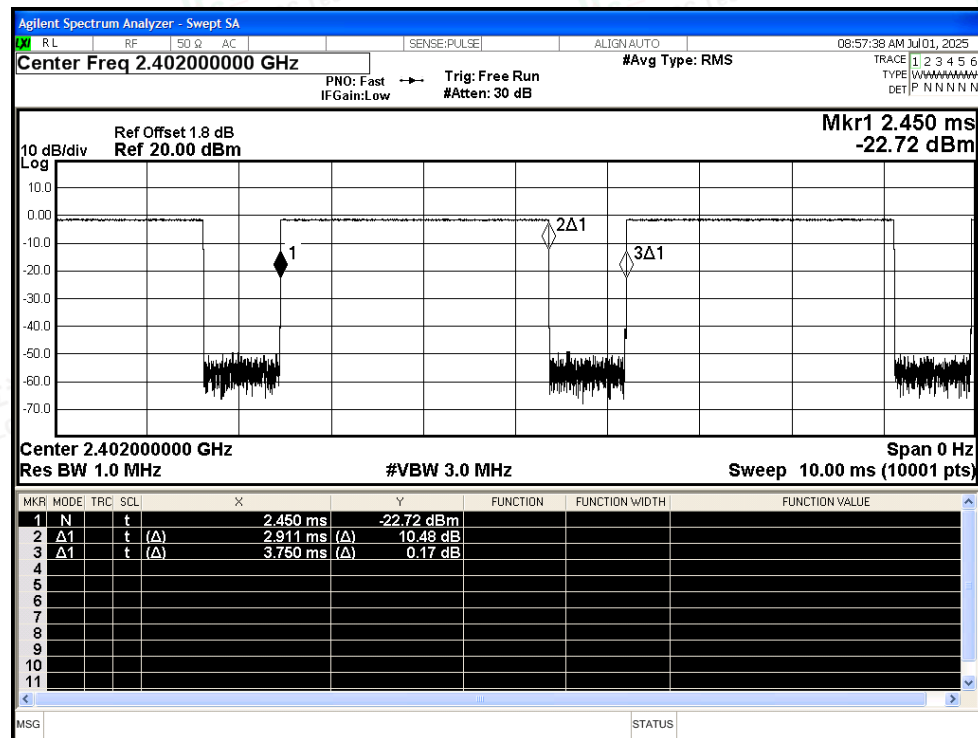


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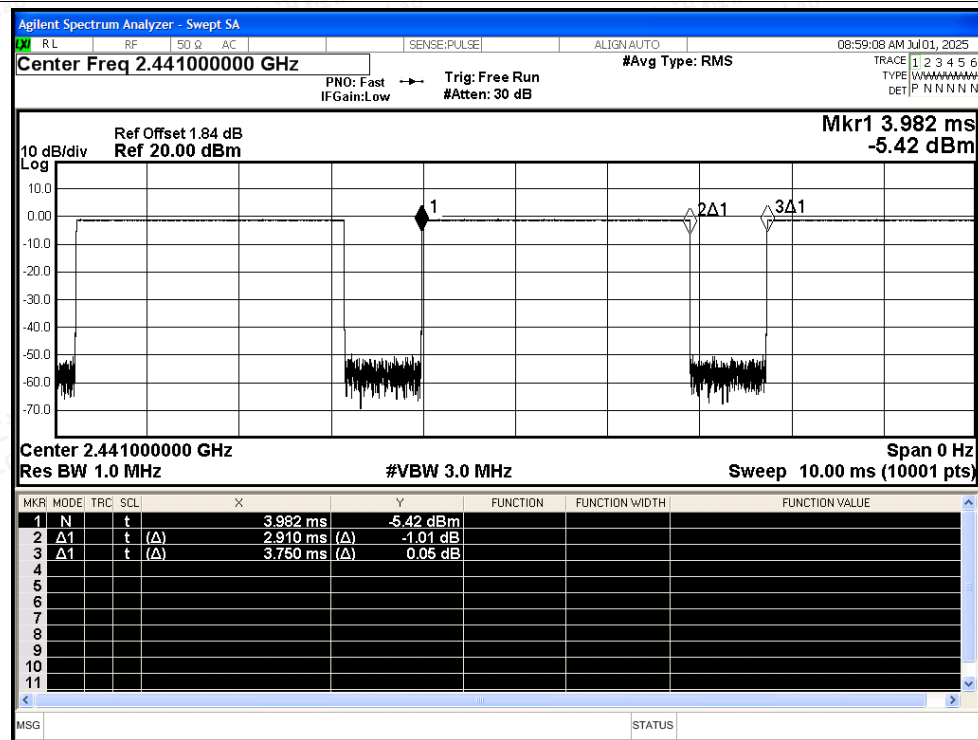


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant



Duty Cycle NVNT 1-DH5 2441MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

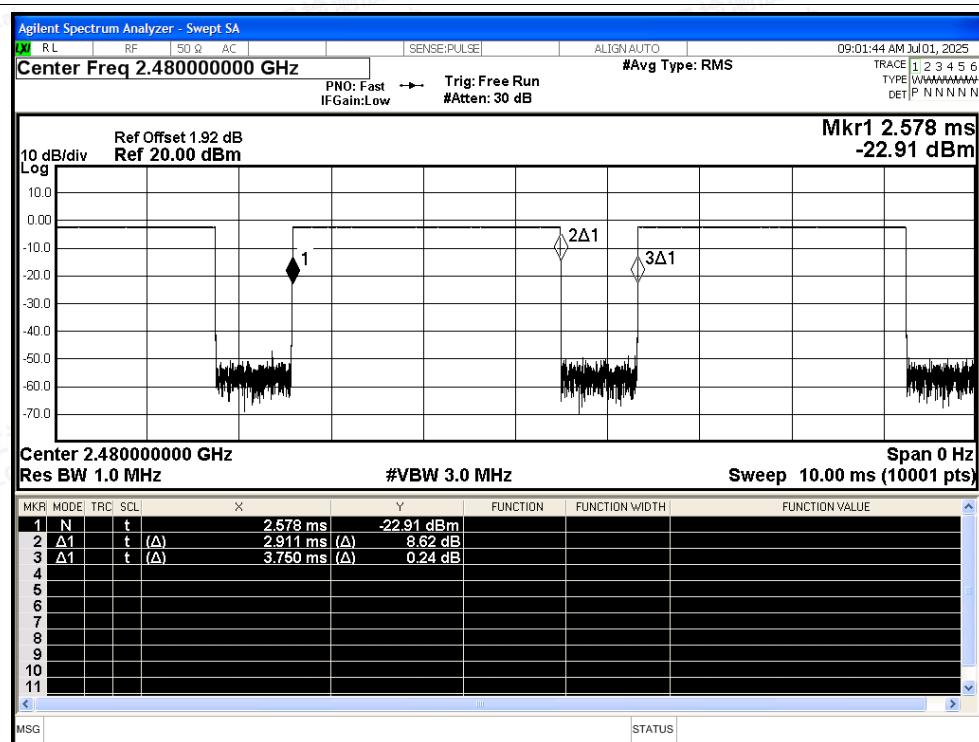
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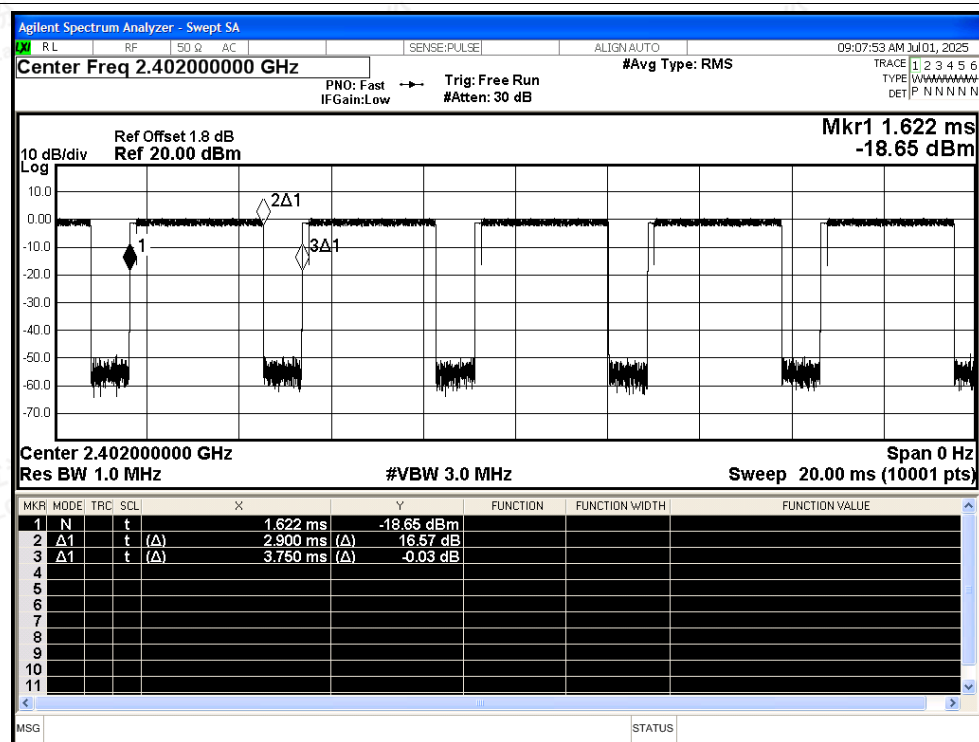
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant

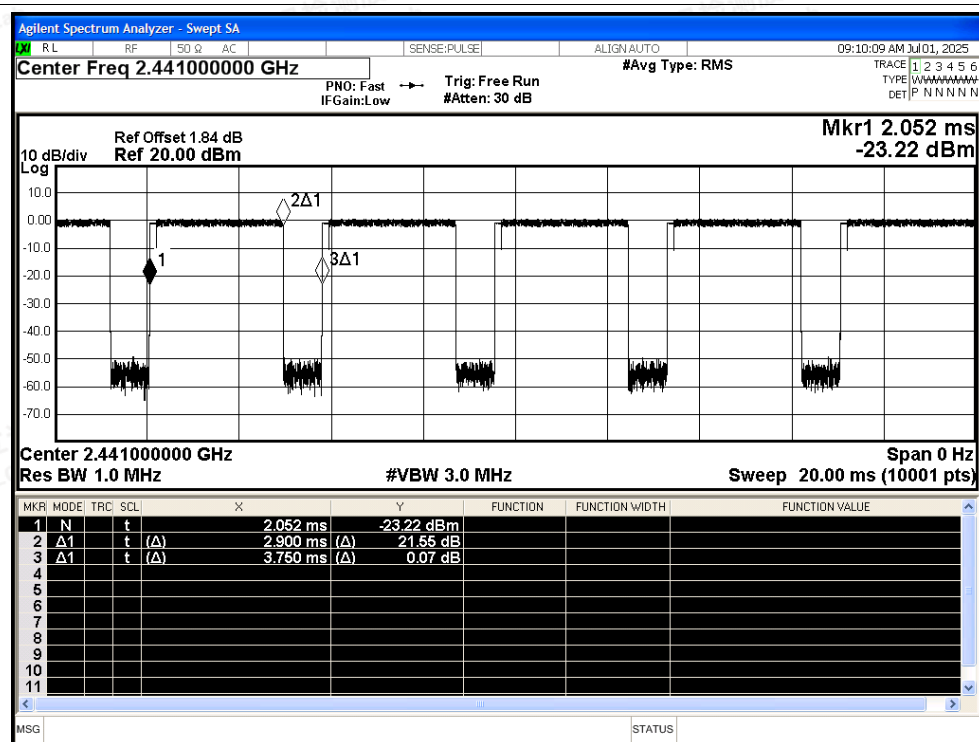


Duty Cycle NVNT 2-DH5 2402MHz Ant

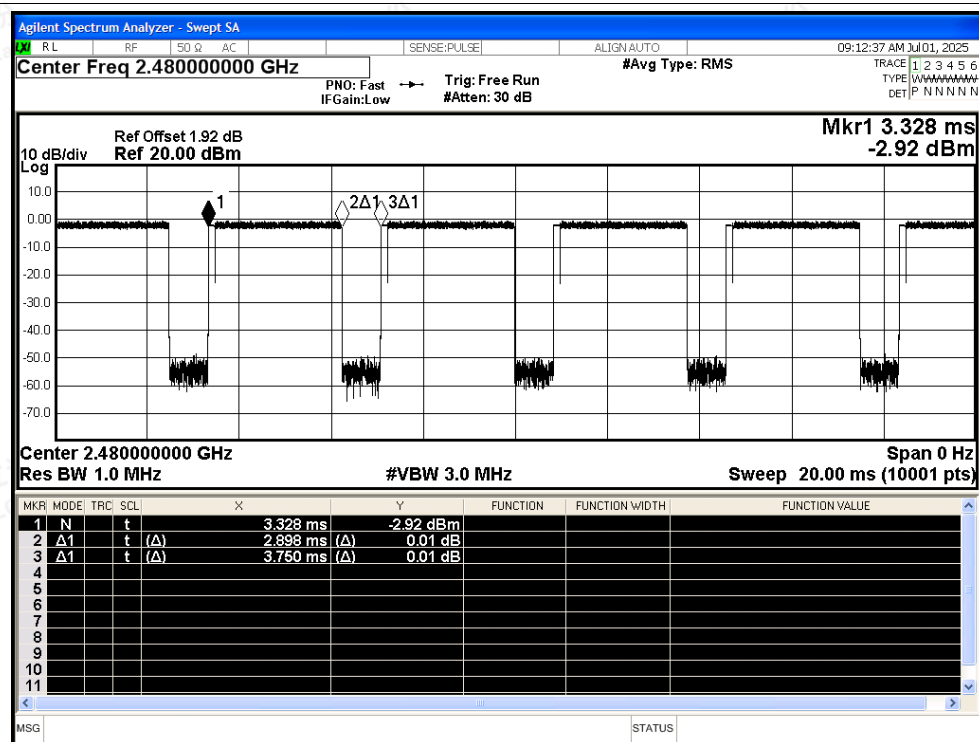




Duty Cycle NVNT 2-DH5 2441MHz Ant



Duty Cycle NVNT 2-DH5 2480MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

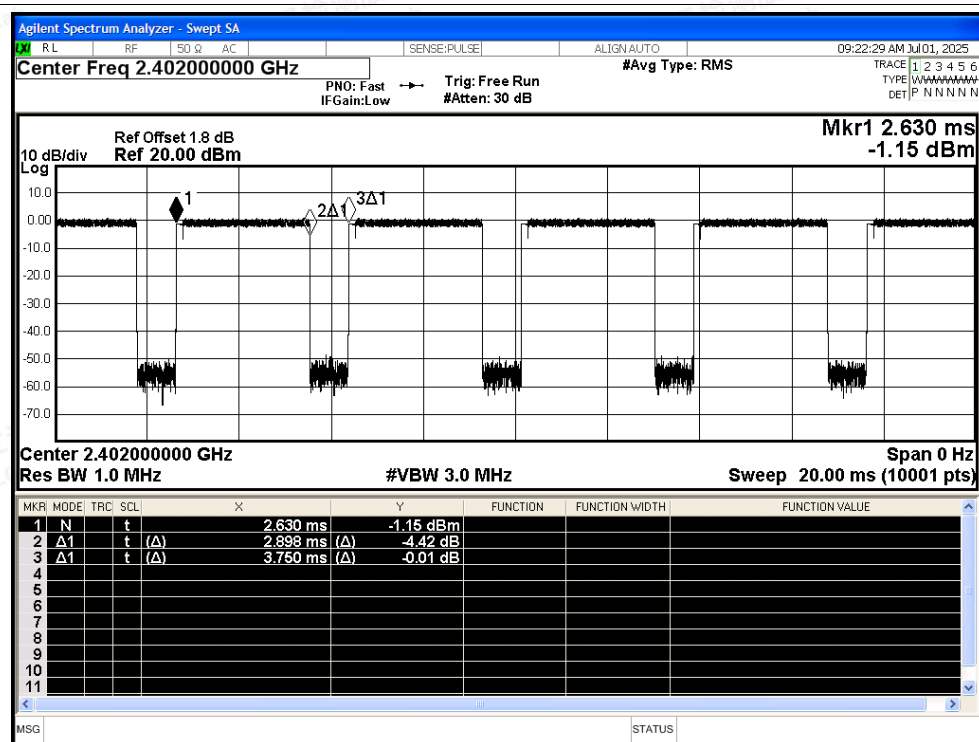
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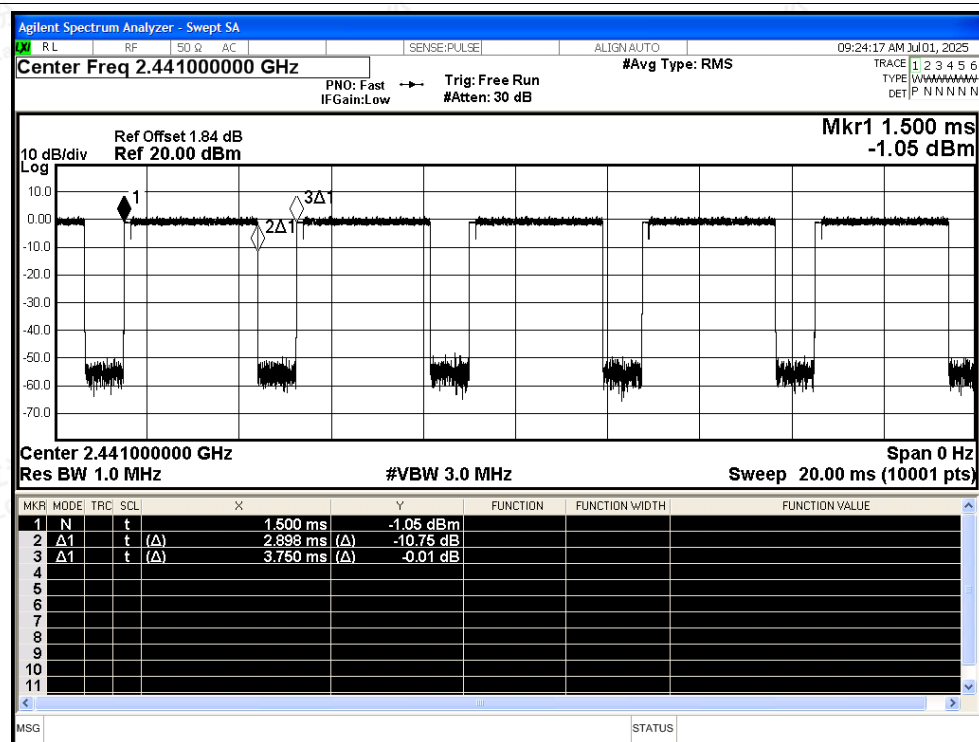
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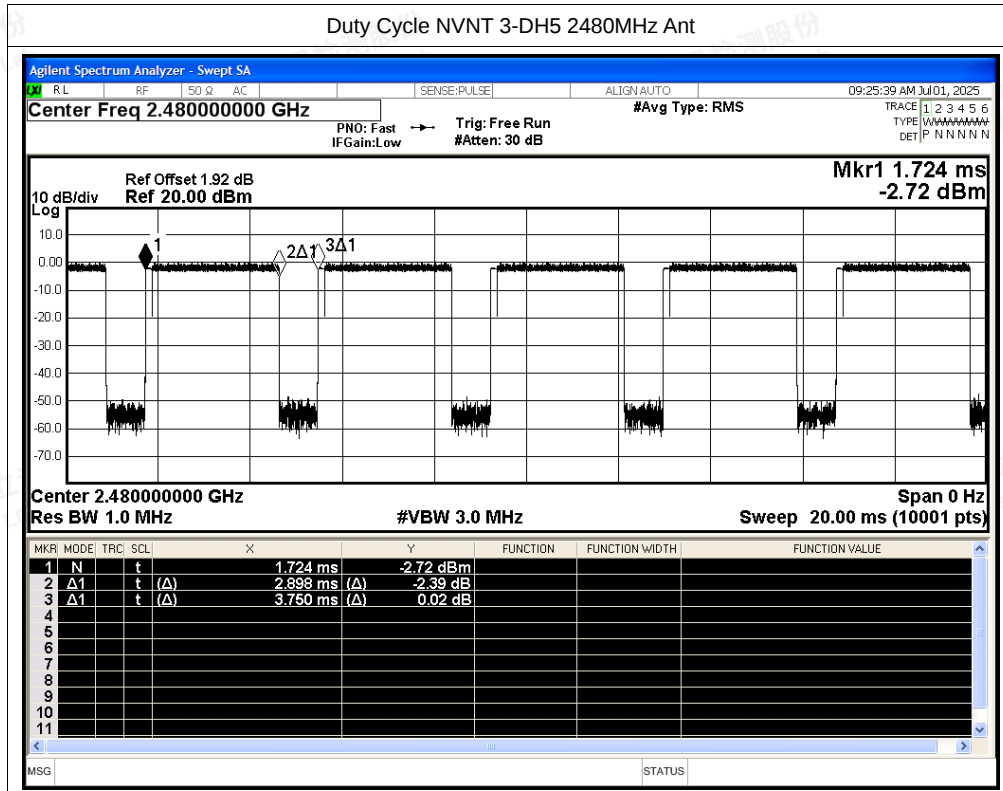


Duty Cycle NVNT 3-DH5 2402MHz Ant



Duty Cycle NVNT 3-DH5 2441MHz Ant







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	Ant	No-Hopping	2310	-50.56	2	-	46.7	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-59.24	2	1.1	39.12	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2376.624	-47.54	2	-	49.72	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2349.456	-57.83	2	1.1	40.53	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-51.9	2	-	45.36	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-58.99	2	1.1	39.37	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-50.11	2	-	47.15	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-58.25	2	1.1	40.11	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2494.528	-45.6	2	-	51.66	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.752	-57.34	2	1.1	41.02	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-50.64	2	-	46.62	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-58.27	2	1.1	40.09	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-50.62	2	-	46.64	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-58.31	2	1.12	40.07	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2383.056	-47.77	2	-	49.49	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2365.104	-57.82	2	1.12	40.56	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-50.4	2	-	46.86	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-58.81	2	1.12	39.57	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-50.85	2	-	46.41	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-58.04	2	1.12	40.34	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2485.768	-46.54	2	-	50.72	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2487.448	-57.09	2	1.12	41.29	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-50.21	2	-	47.05	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-58.08	2	1.12	40.3	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-50.58	2	-	46.68	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-58.77	2	1.12	39.61	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2338.128	-47.06	2	-	50.2	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2384.496	-57.77	2	1.12	40.61	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-49.15	2	-	48.11	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-58.82	2	1.12	39.56	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-49.37	2	-	47.89	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-57.74	2	1.12	40.64	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2484.304	-46.64	2	-	50.62	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.56	-57.22	2	1.12	41.16	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-48.86	2	-	48.4	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-58.03	2	1.12	40.35	Average	54	Pass



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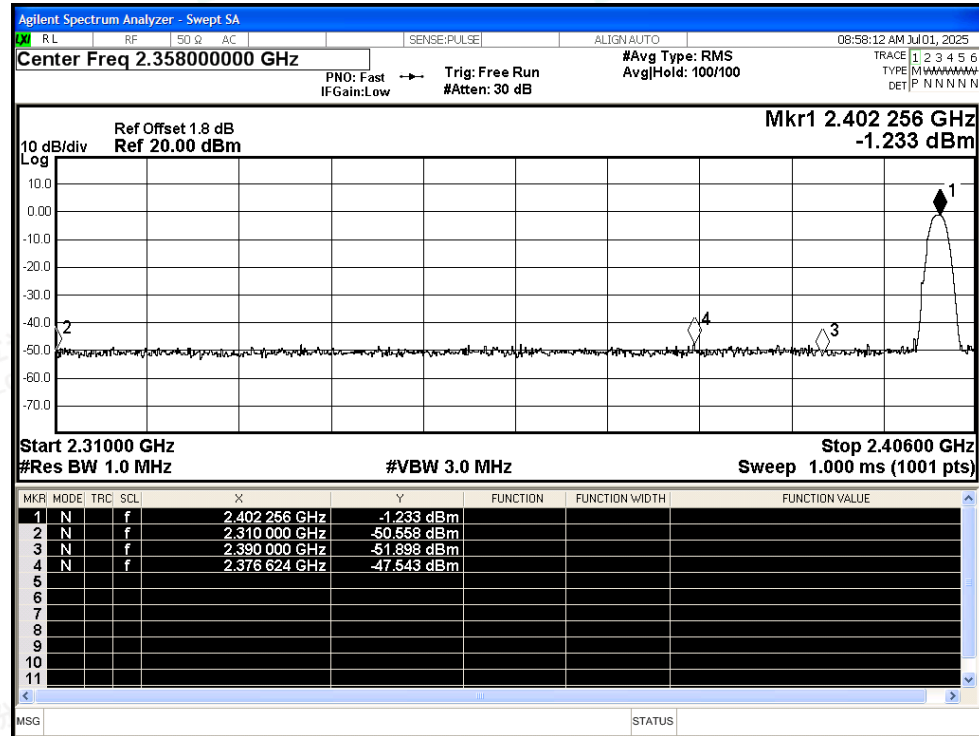
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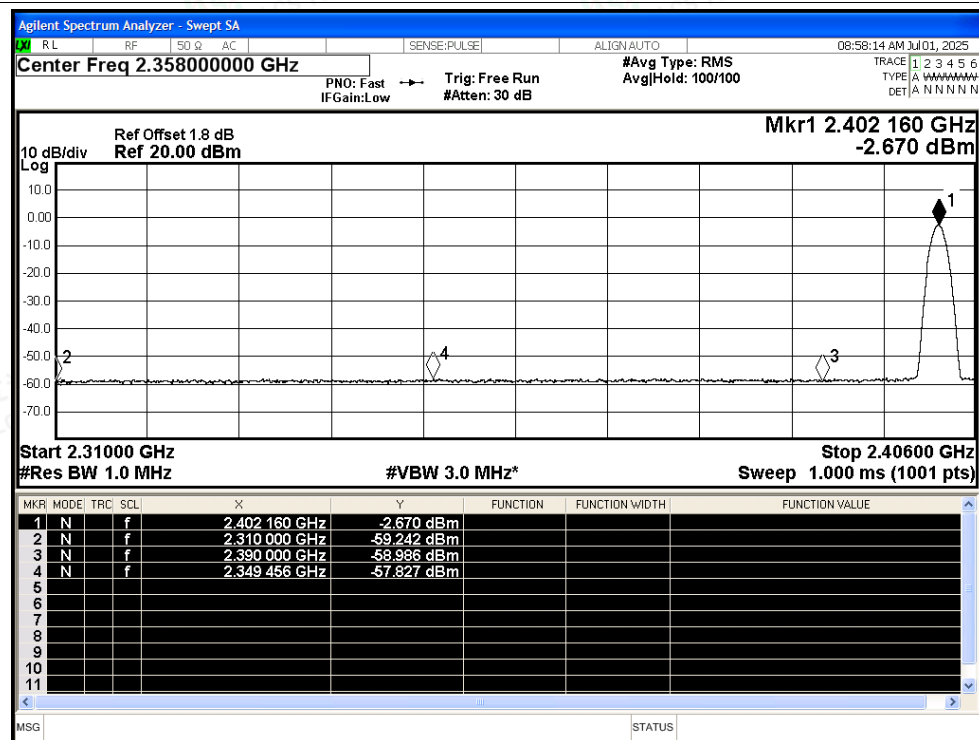


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

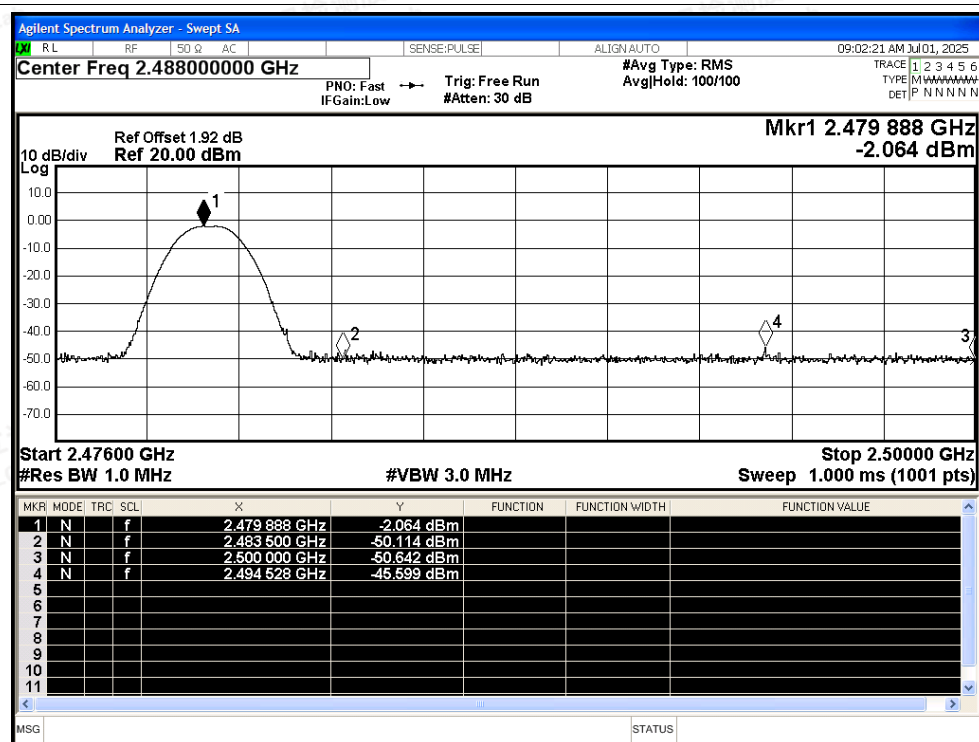
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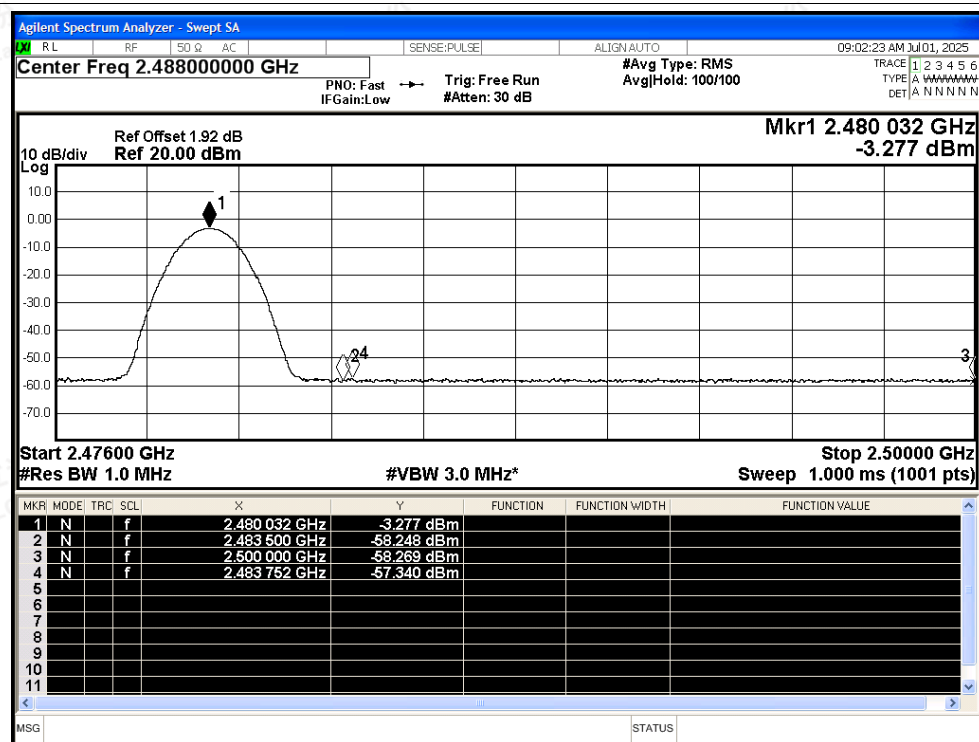
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Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

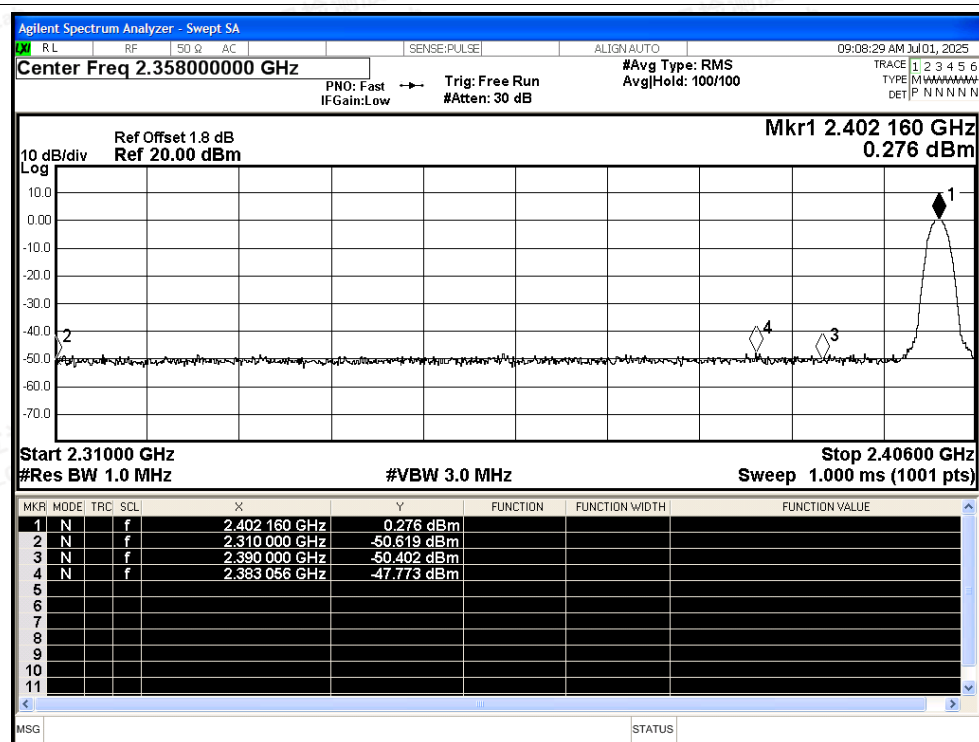
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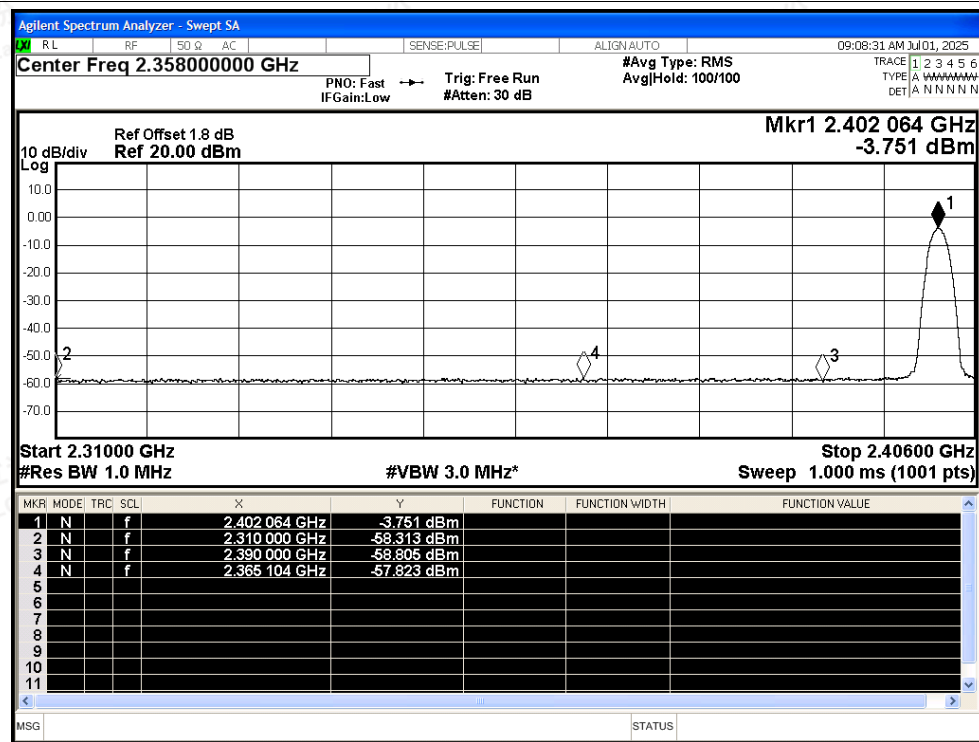
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Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Peak



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



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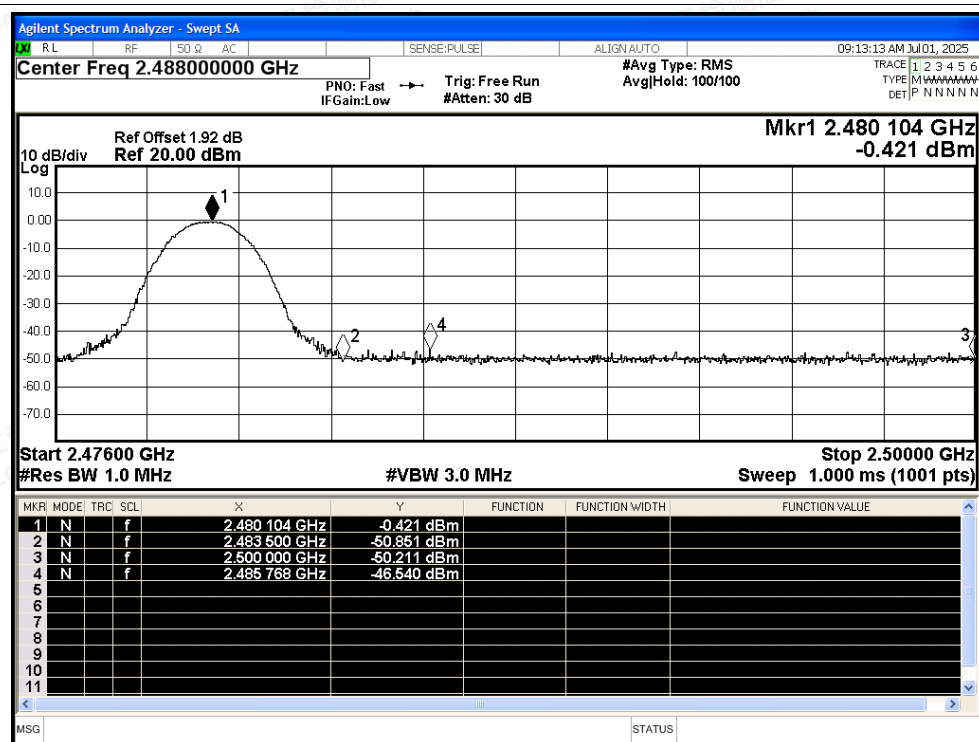
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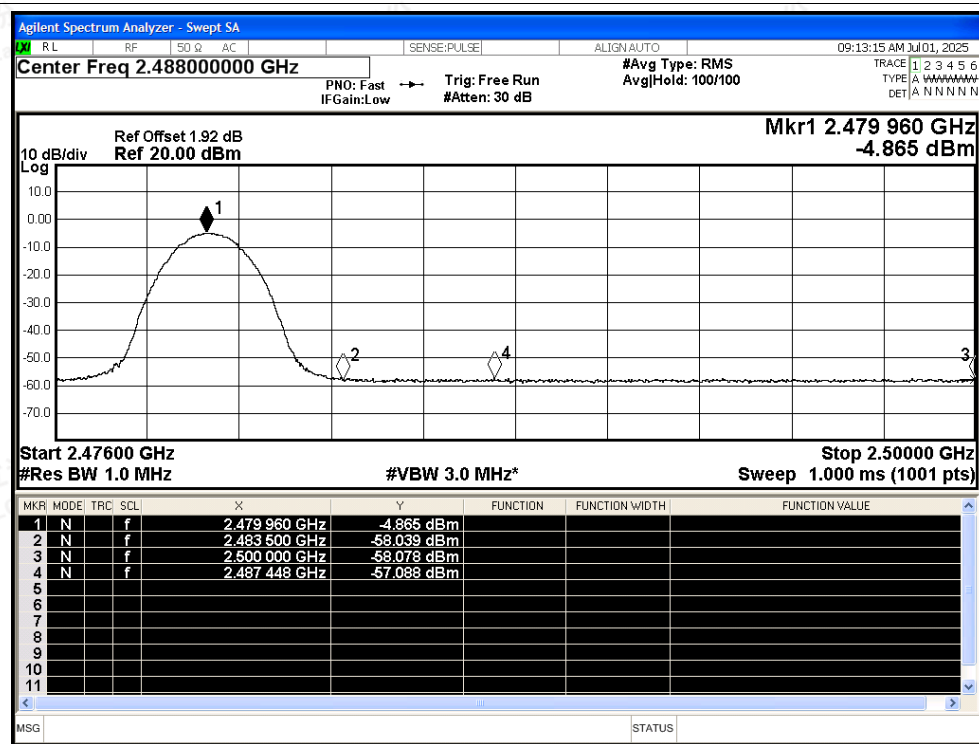
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Restrict Band NVNT 2-DH5 2480MHz Ant No-Hopping Peak



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



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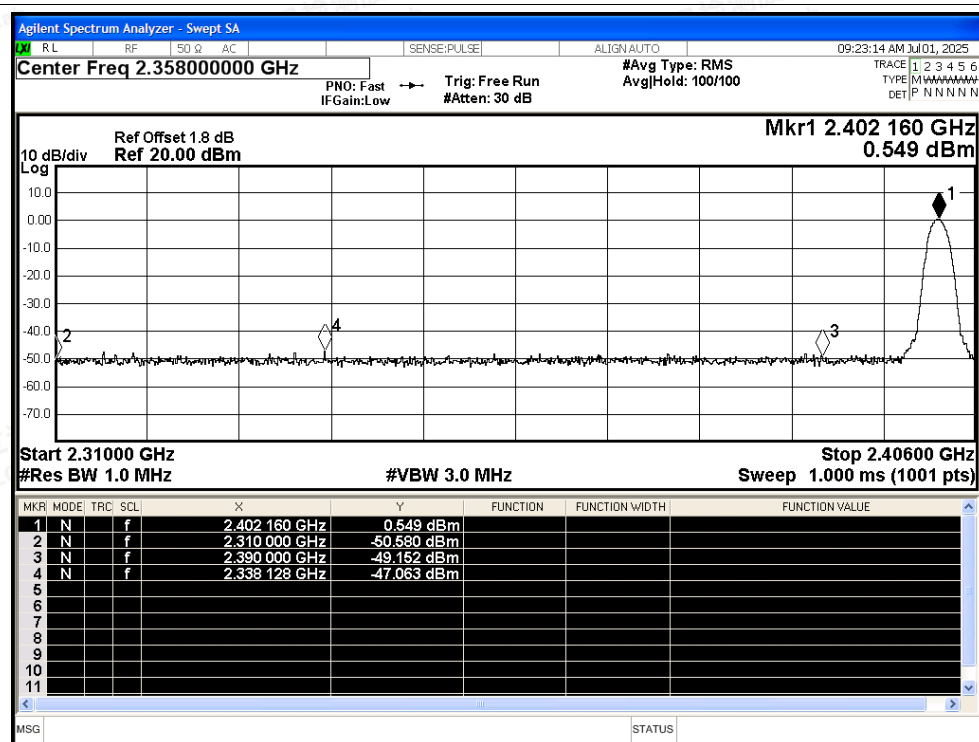
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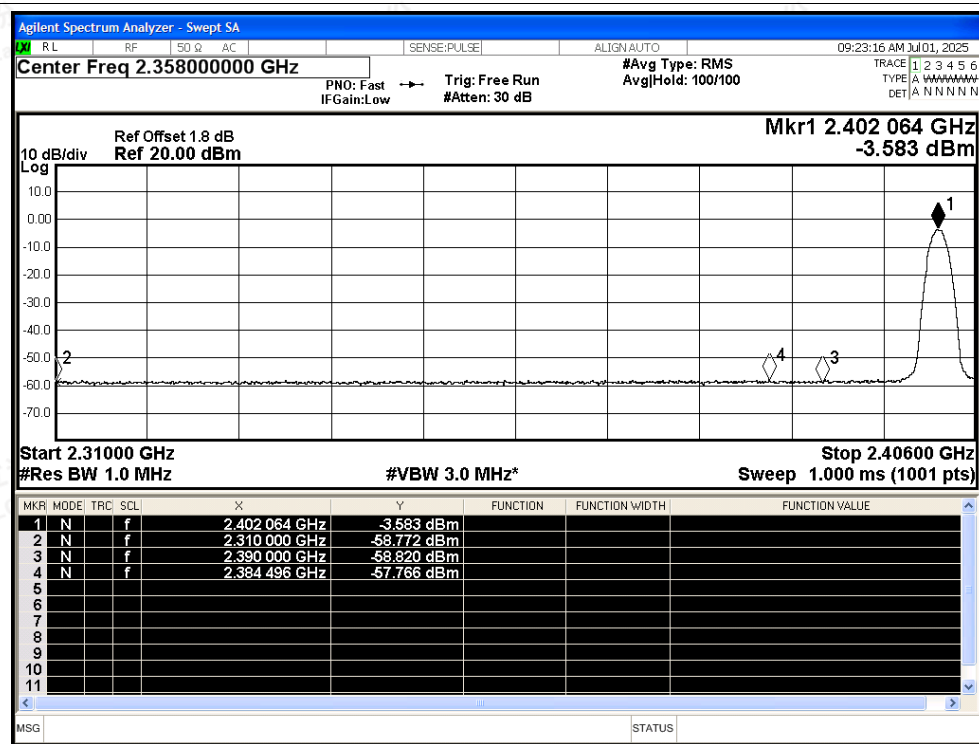
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Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Peak



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



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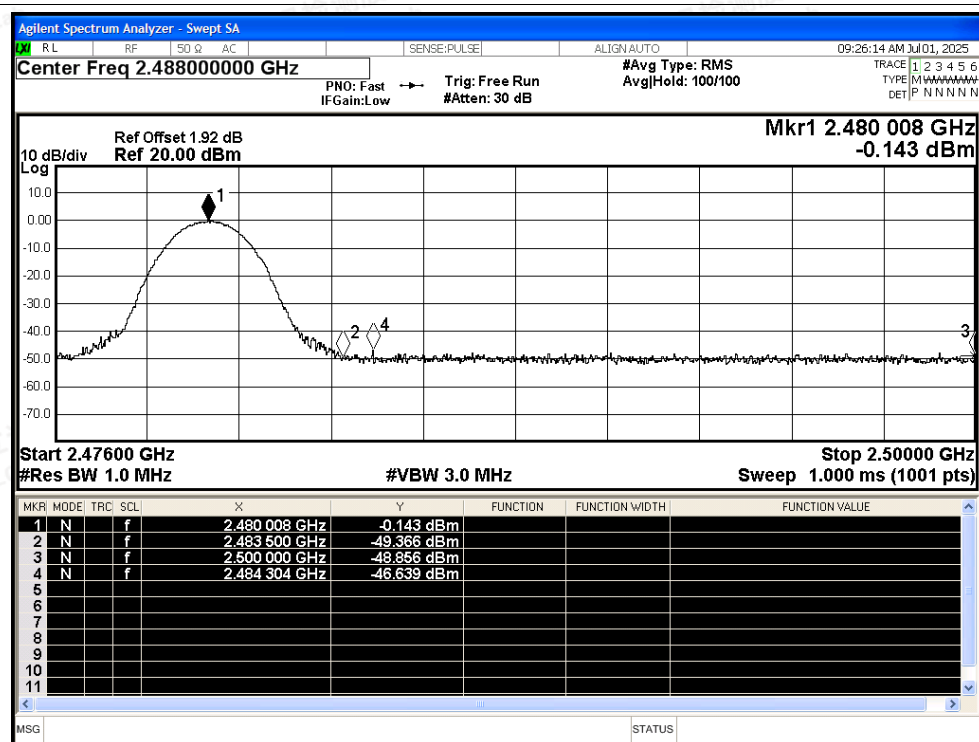
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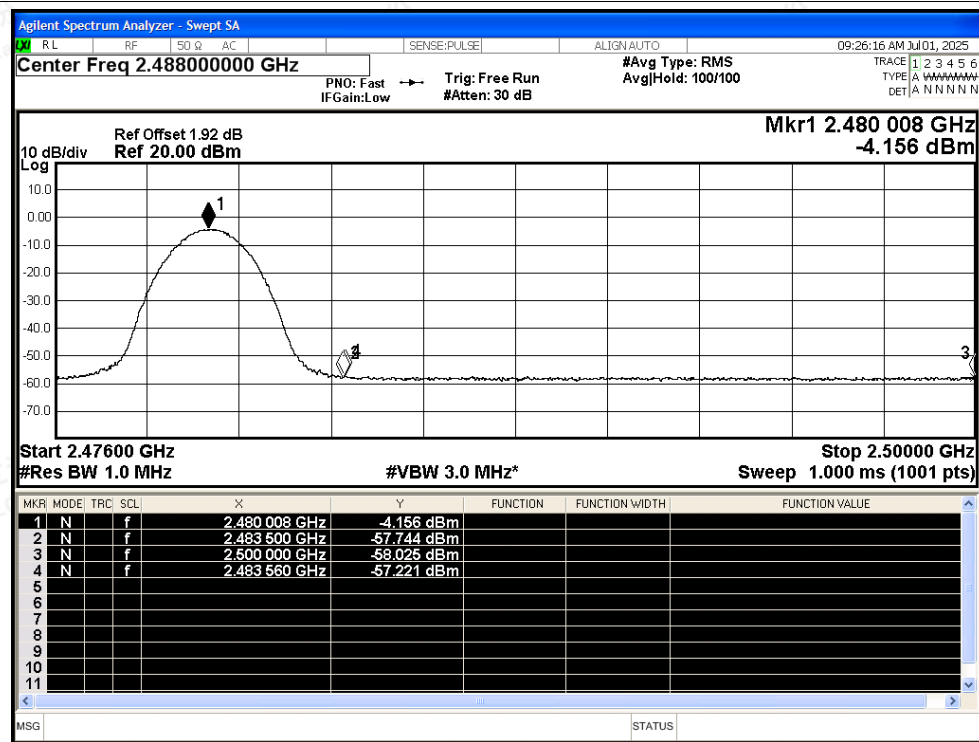
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Restrict Band NVNT 3-DH5 2480MHz Ant No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

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