



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: SonicOX Studio-100

Test Model: OXHP1210

Environmental Conditions

Temperature:	23.1°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

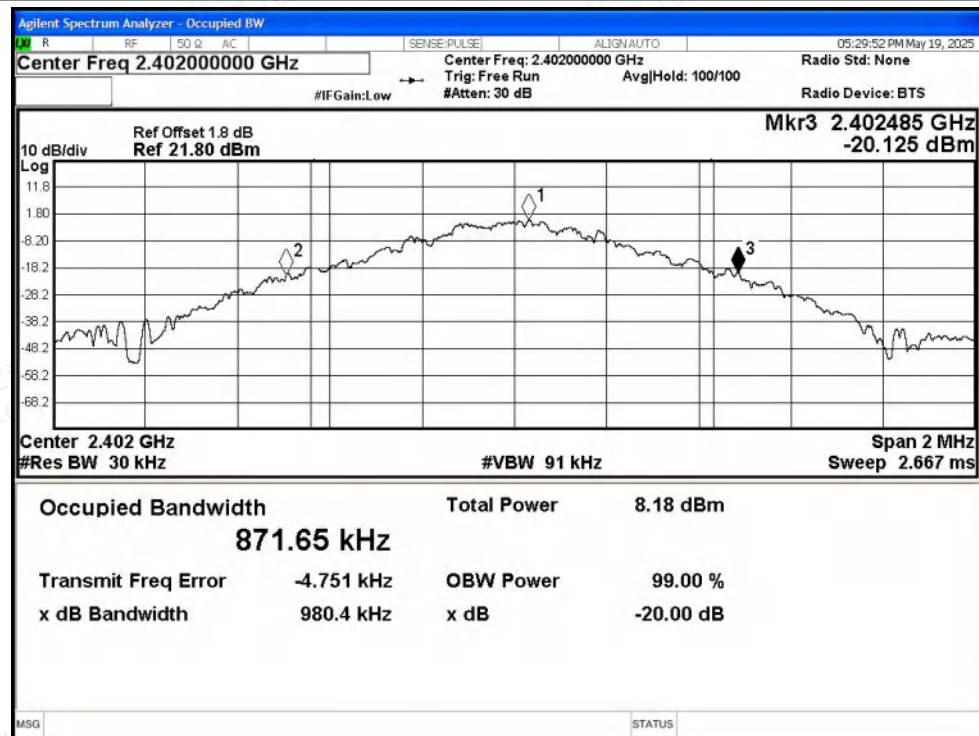
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.98	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.957	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.002	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.286	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.289	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.288	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.297	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.295	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.3	N/A	Pass



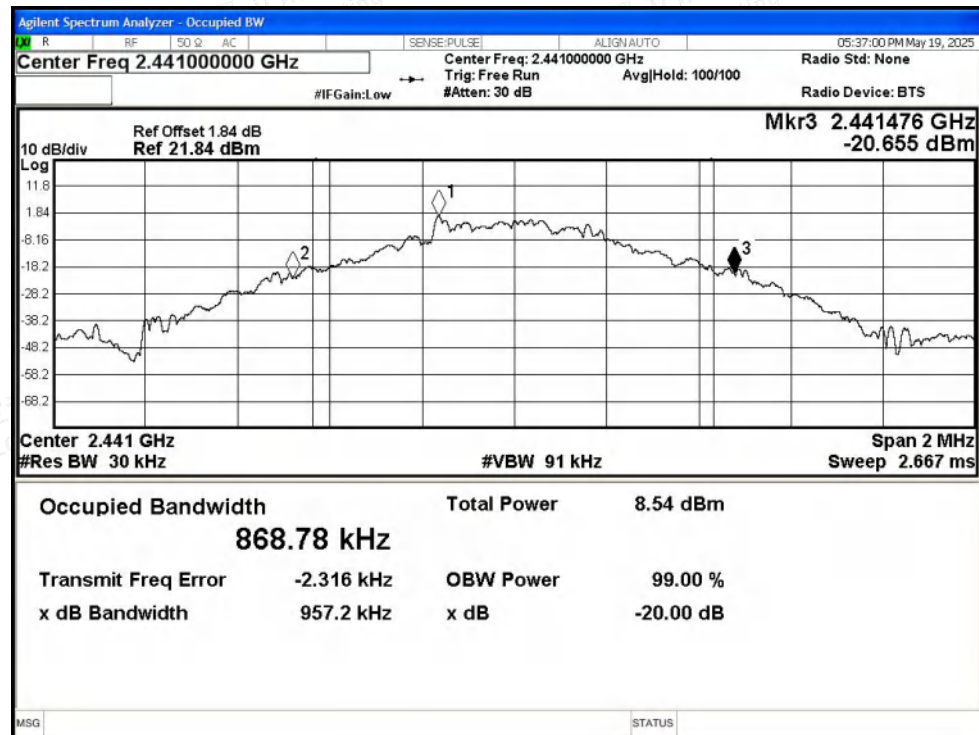


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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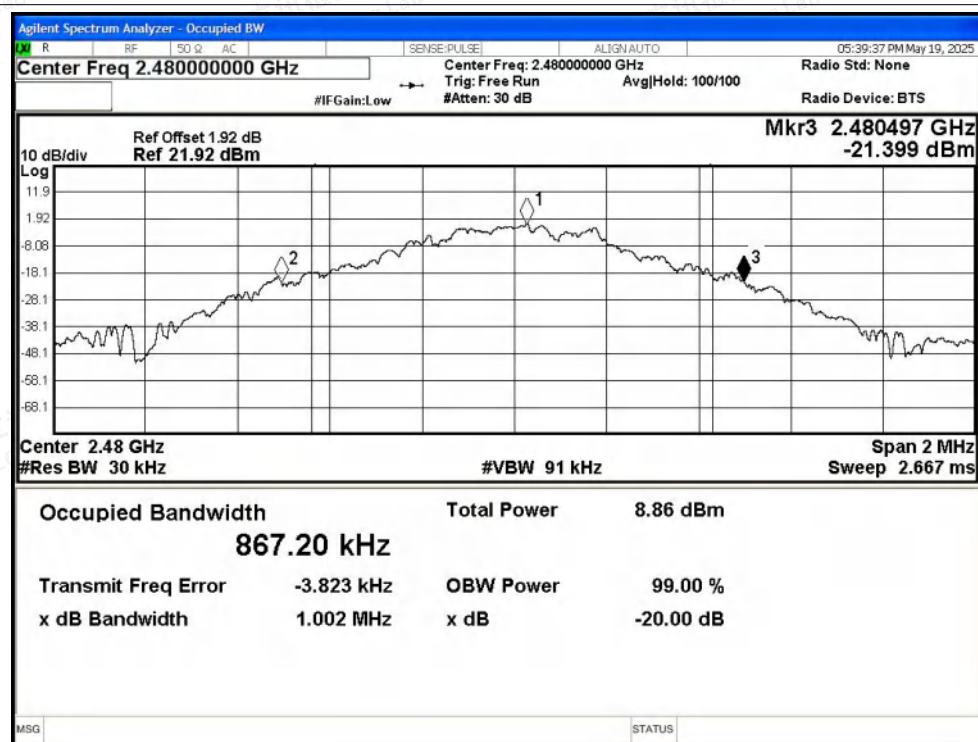
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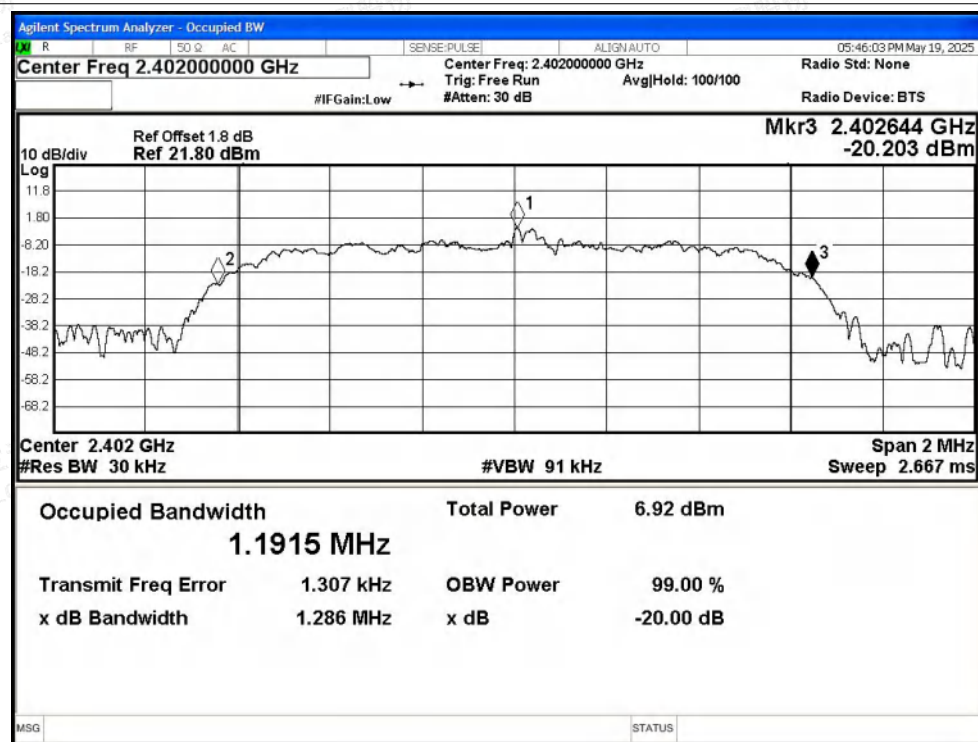
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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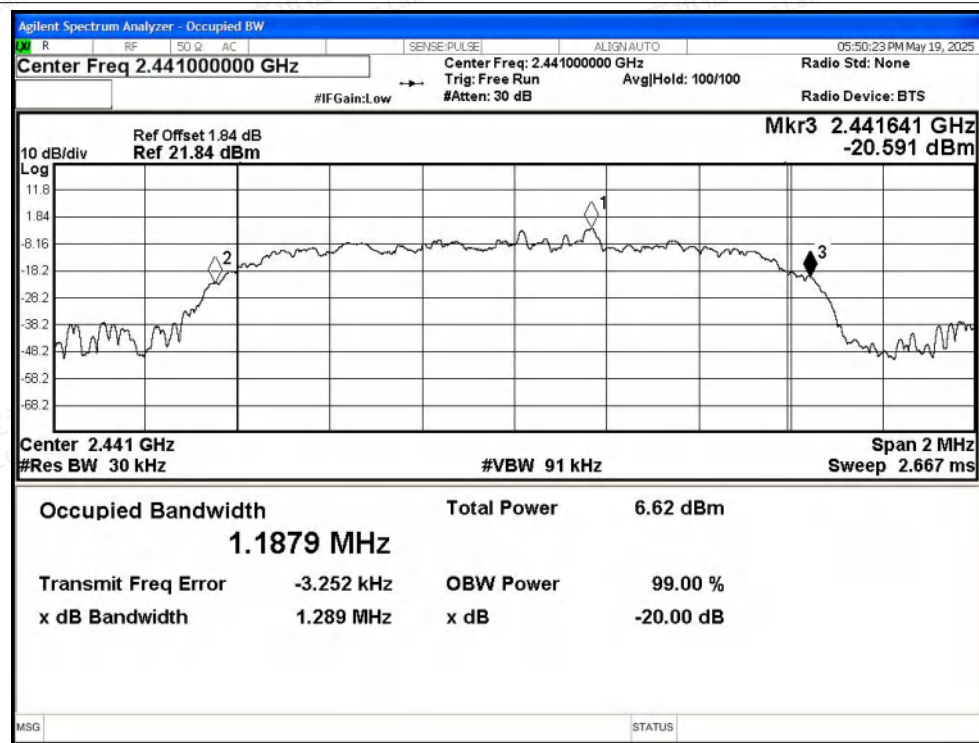
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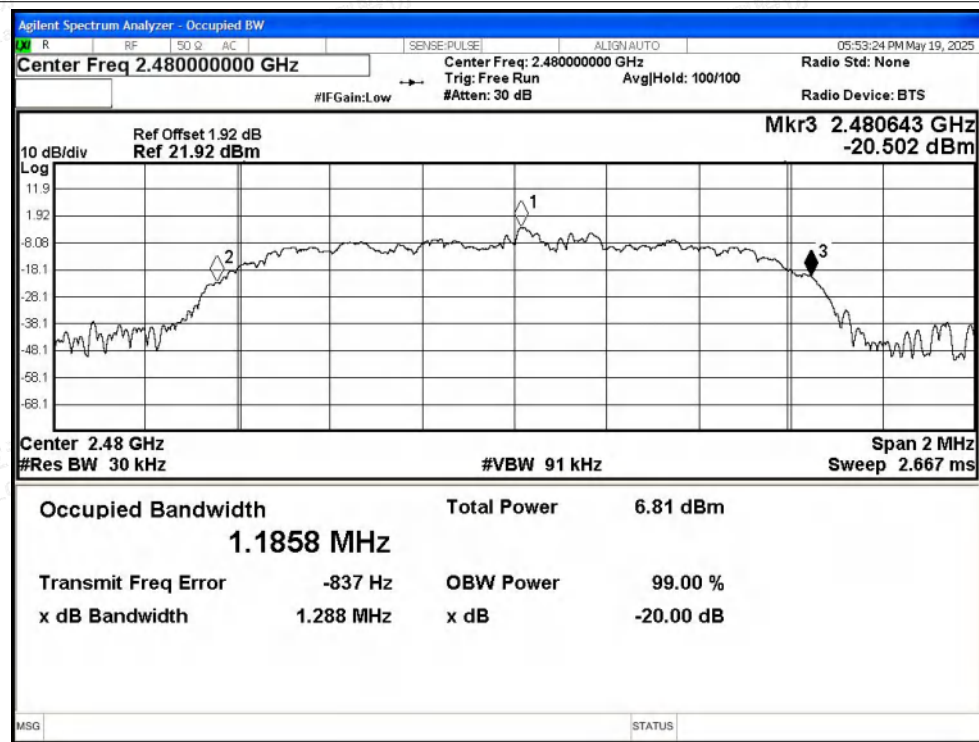
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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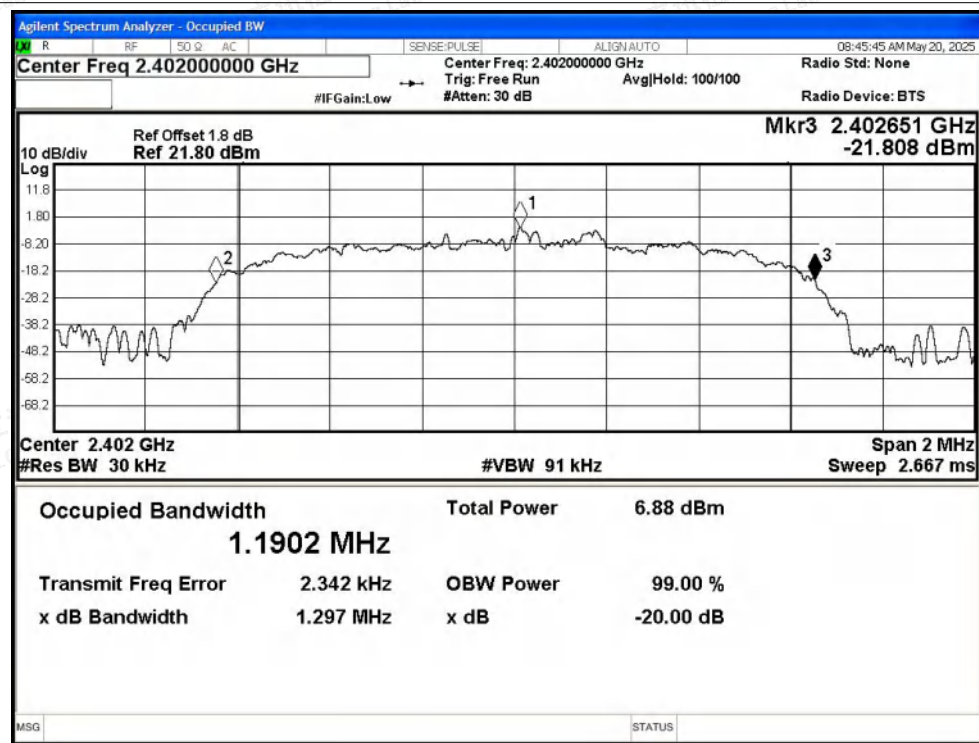
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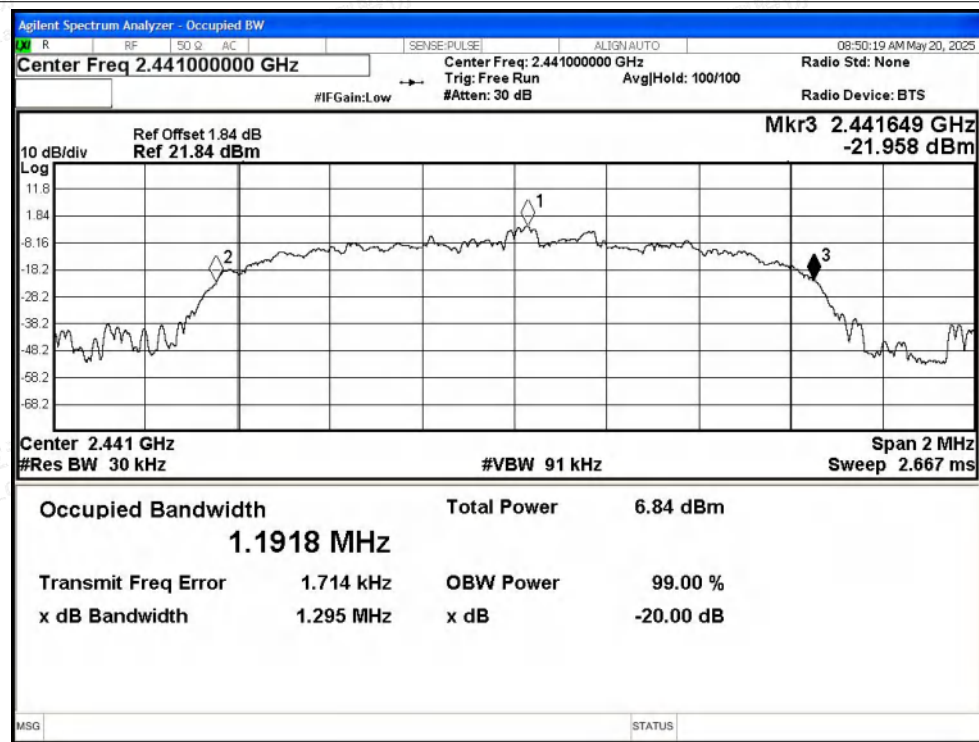
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

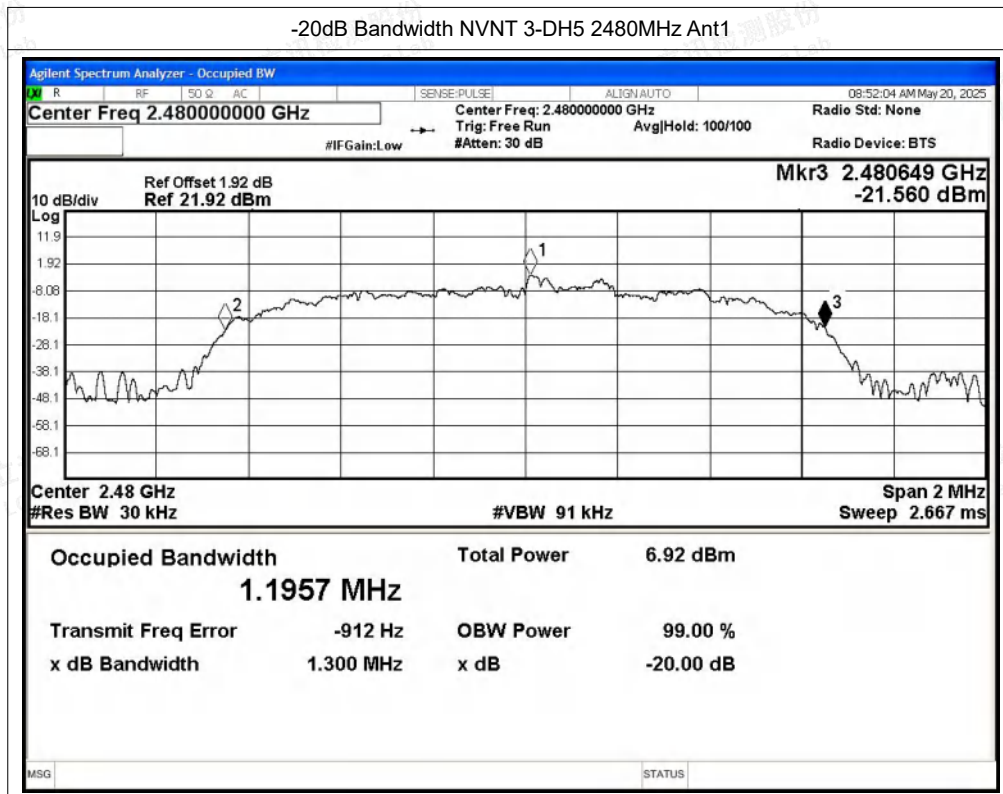


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A.2 Maximum Peak Conducted Output Power

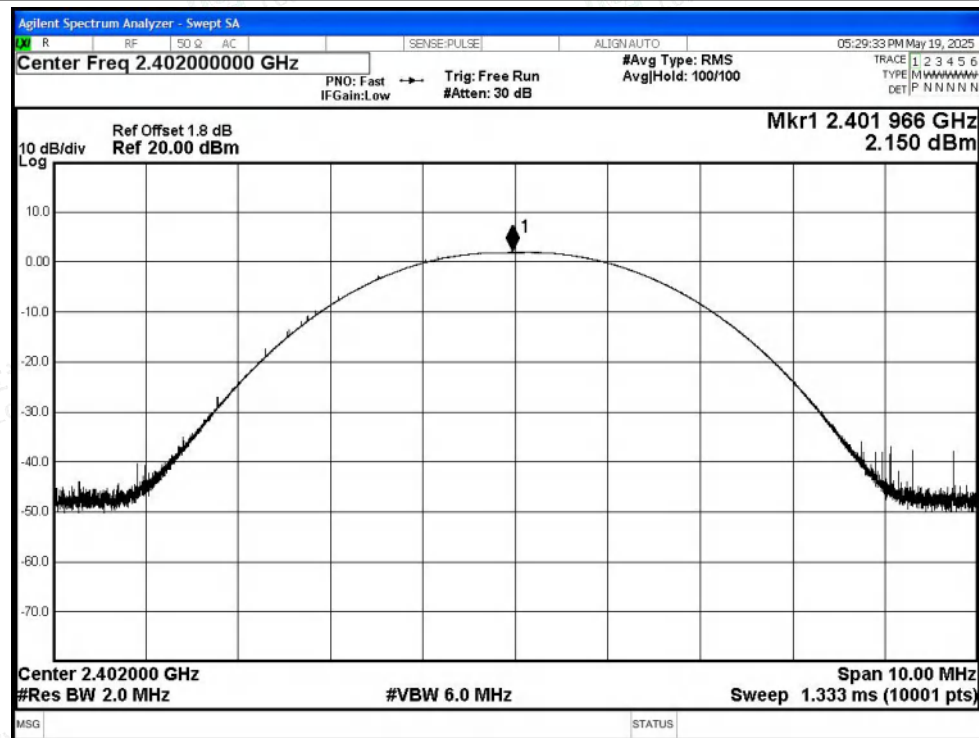
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	2.15	21	Pass
NVNT	1-DH5	2441	Ant1	2.13	21	Pass
NVNT	1-DH5	2480	Ant1	2.44	21	Pass
NVNT	2-DH5	2402	Ant1	2.44	21	Pass
NVNT	2-DH5	2441	Ant1	2.38	21	Pass
NVNT	2-DH5	2480	Ant1	2.30	21	Pass
NVNT	3-DH5	2402	Ant1	2.32	21	Pass
NVNT	3-DH5	2441	Ant1	2.20	21	Pass
NVNT	3-DH5	2480	Ant1	2.08	21	Pass



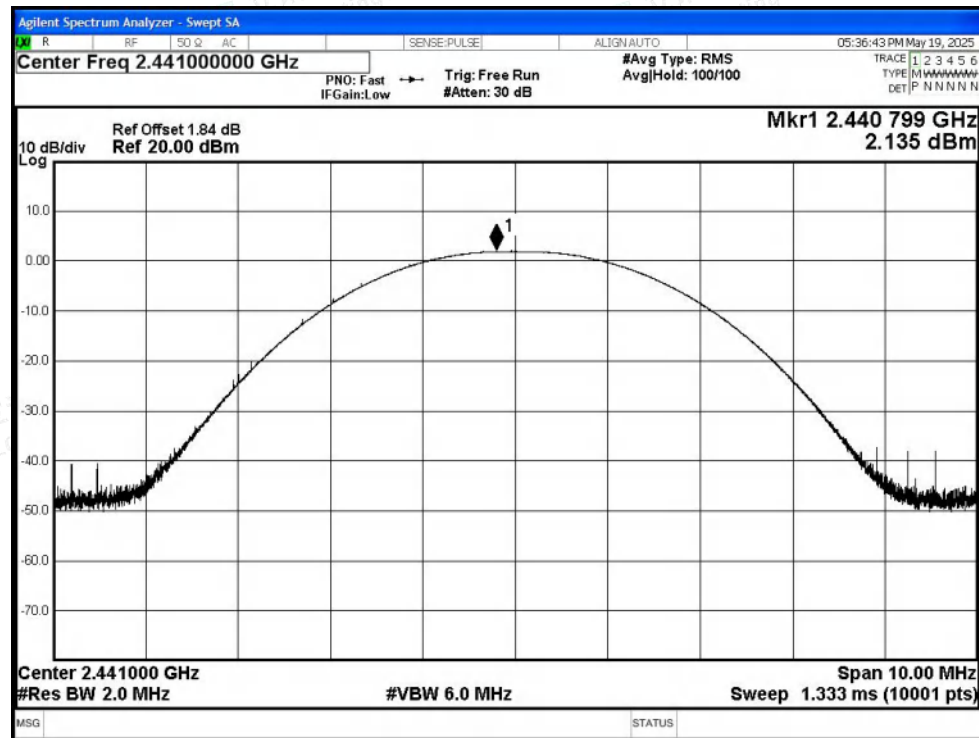


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

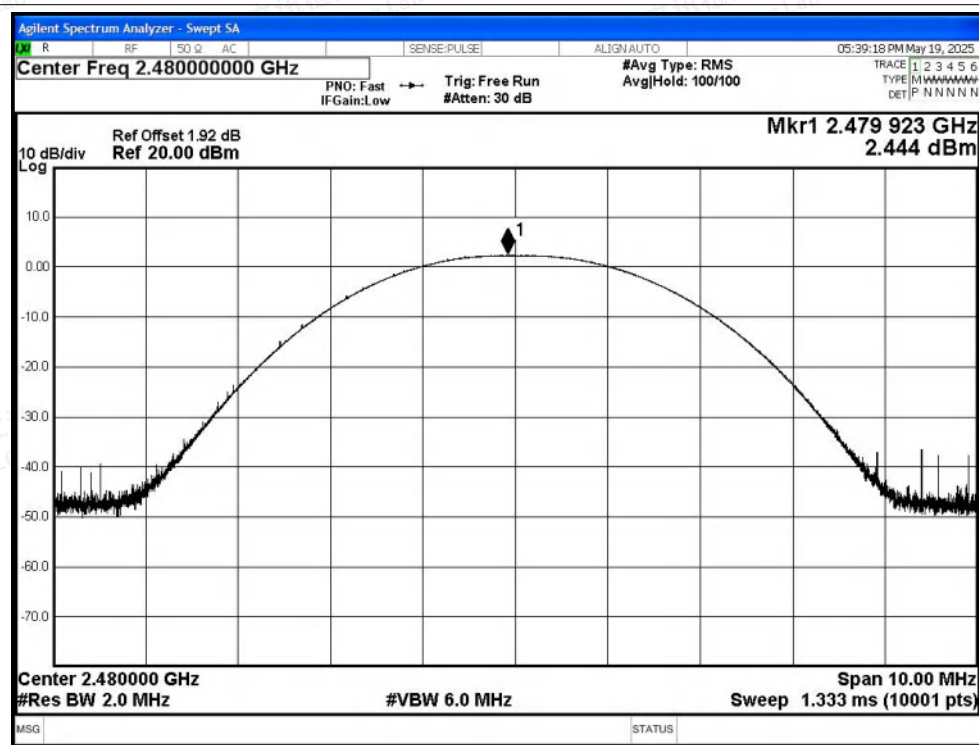


Power NVNT 1-DH5 2441MHz Ant1

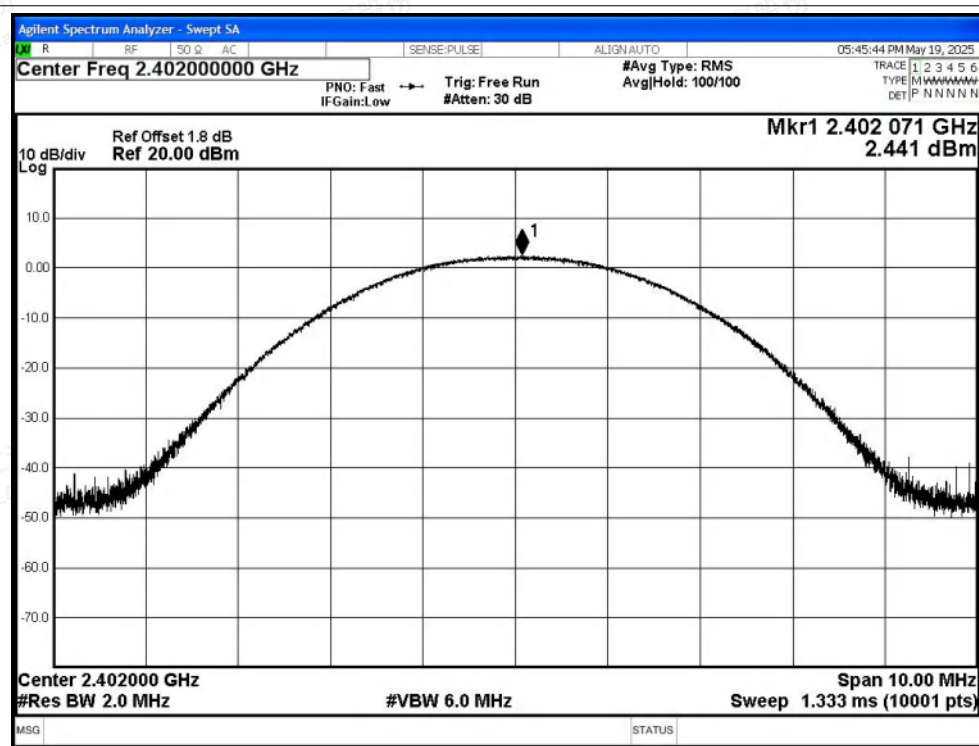




Power NVNT 1-DH5 2480MHz Ant1

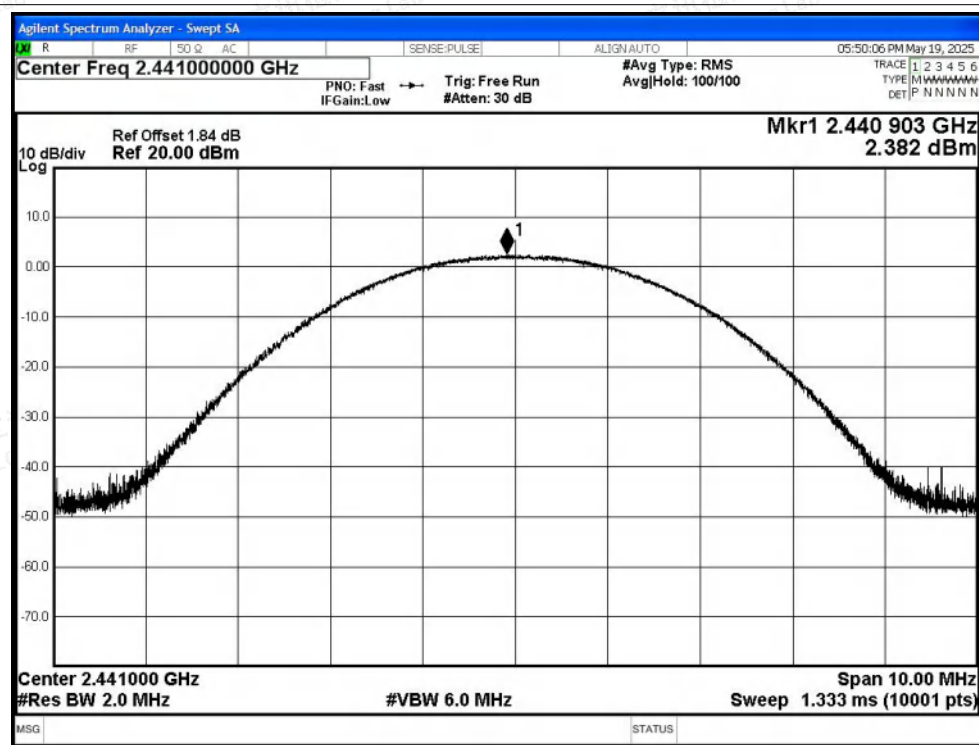


Power NVNT 2-DH5 2402MHz Ant1

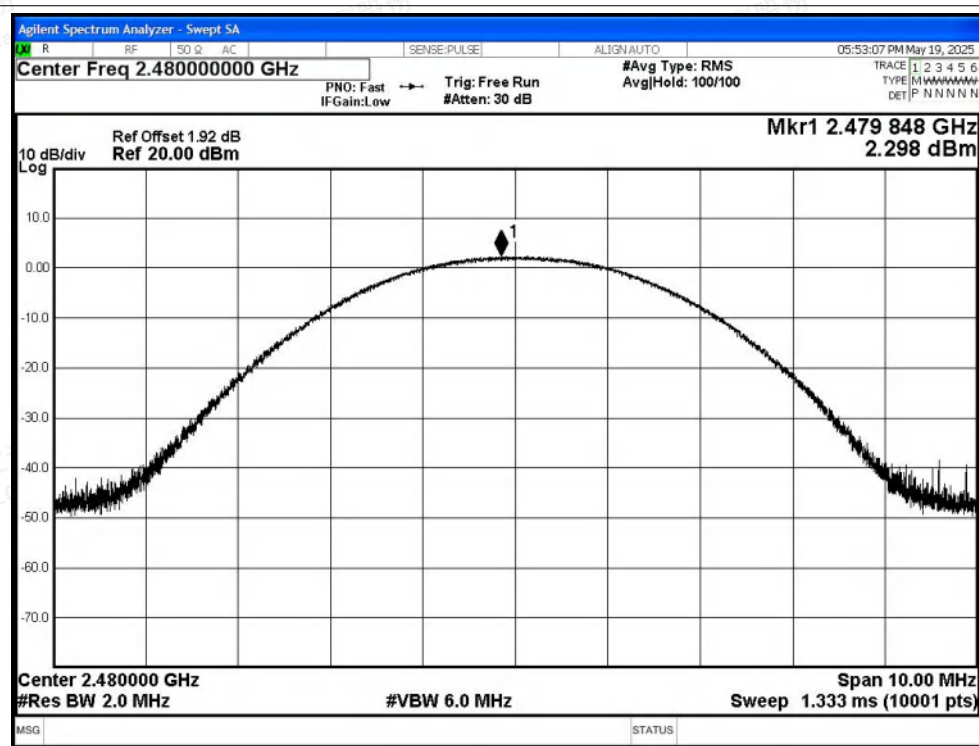




Power NVNT 2-DH5 2441MHz Ant1

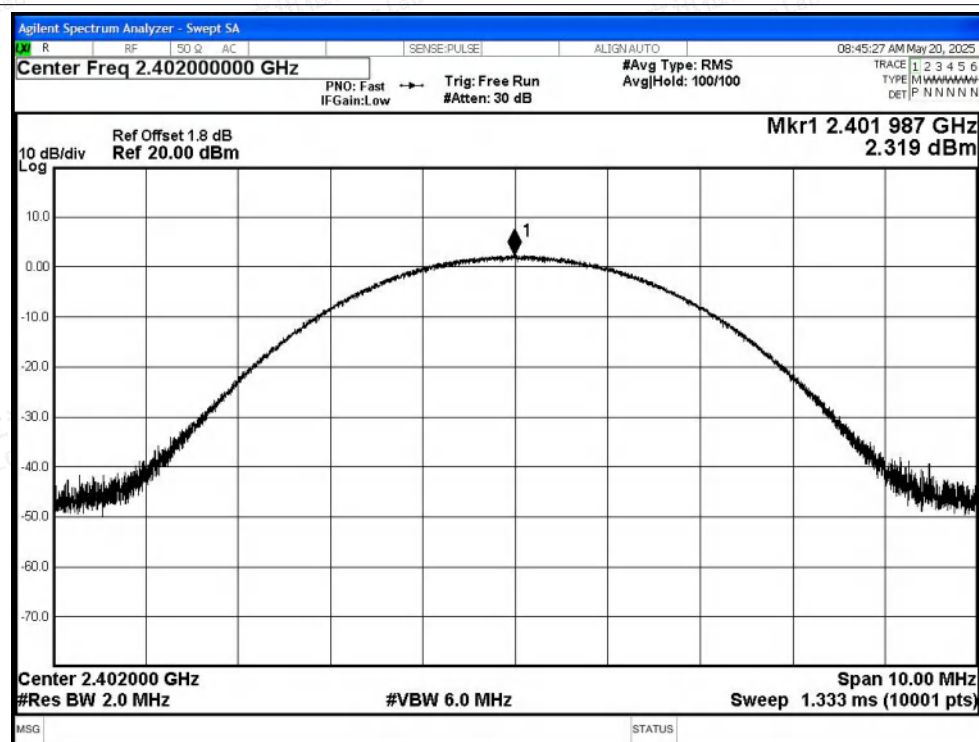


Power NVNT 2-DH5 2480MHz Ant1

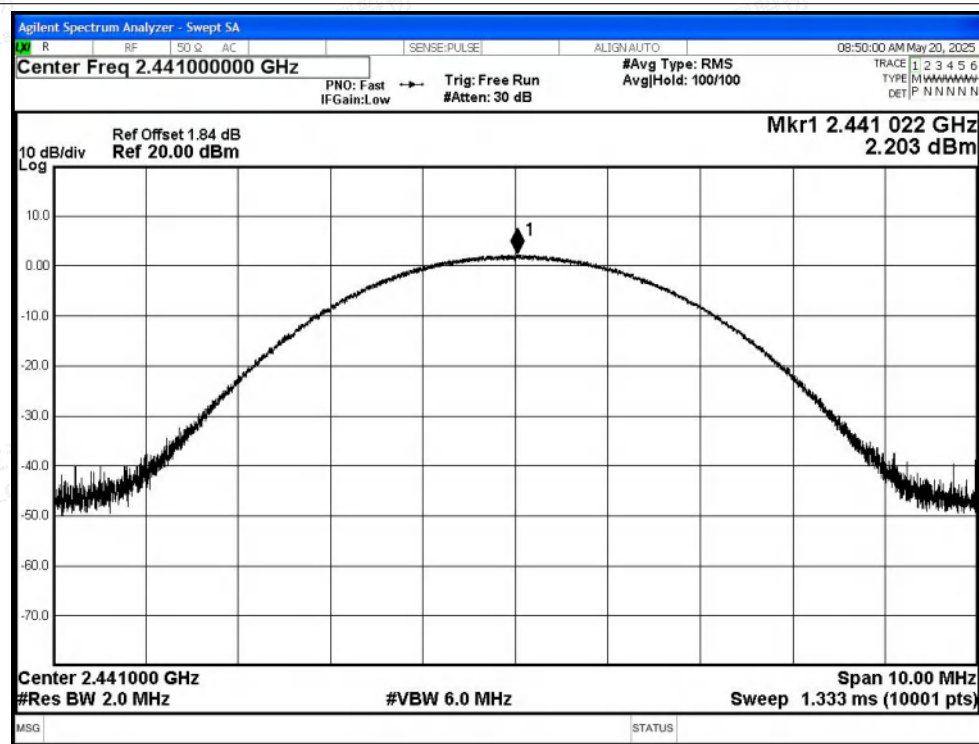


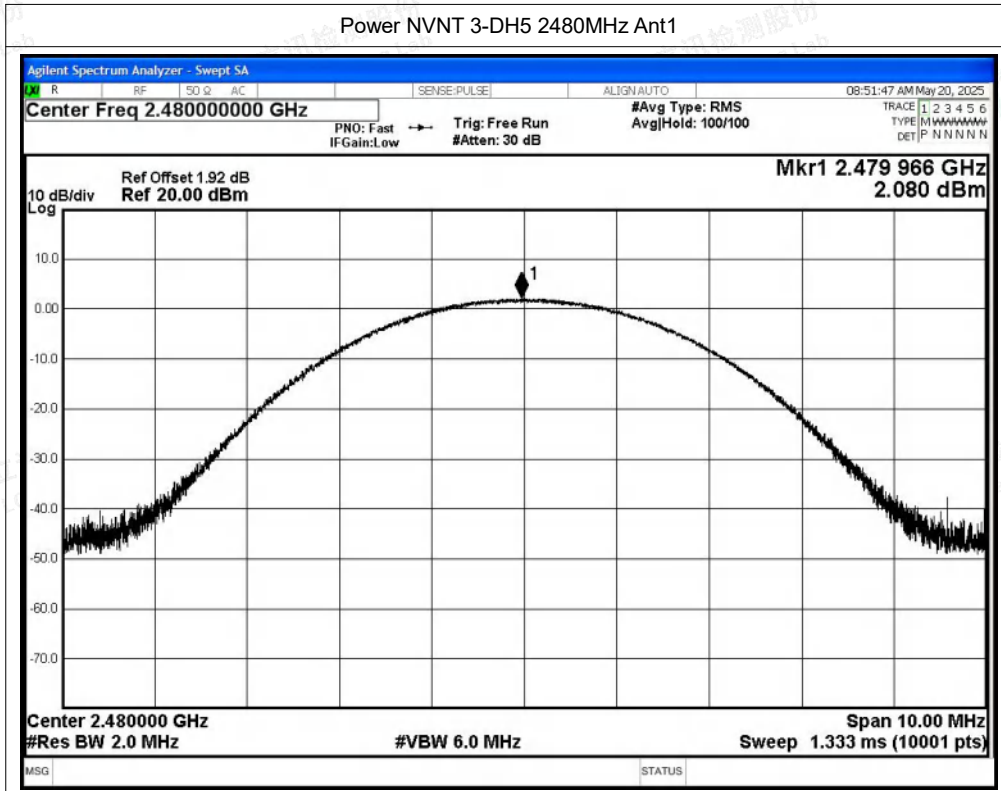


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.06	2403.024	0.964	0.668	Pass
NVNT	2-DH5	Ant1	2402.028	2403.038	1.01	0.859	Pass
NVNT	3-DH5	Ant1	2402.02	2403.01	0.99	0.867	Pass

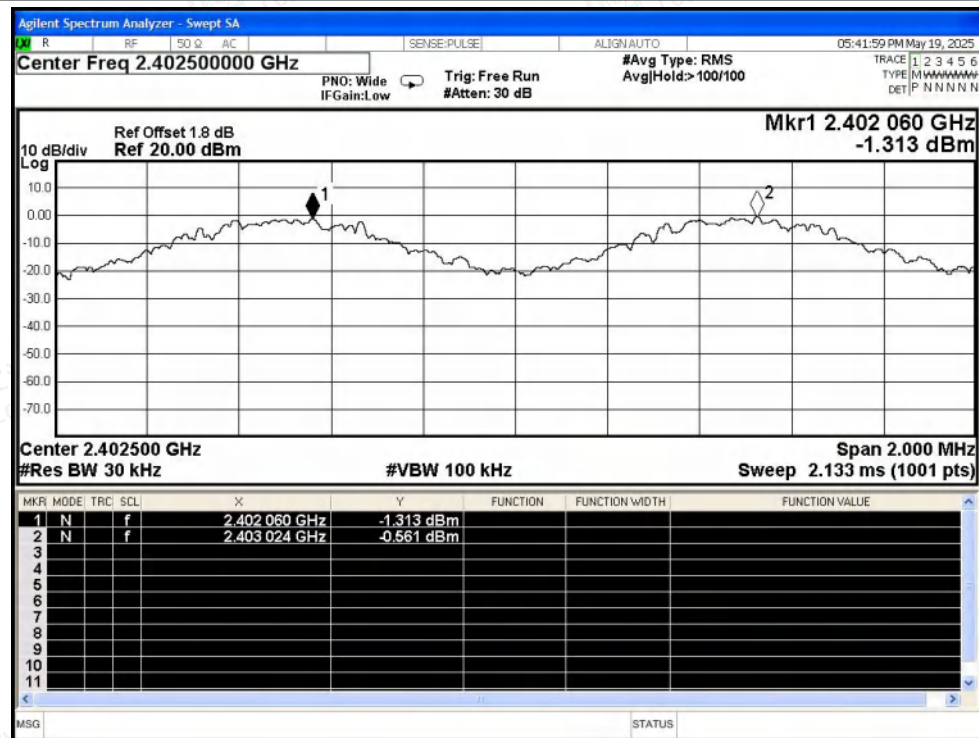


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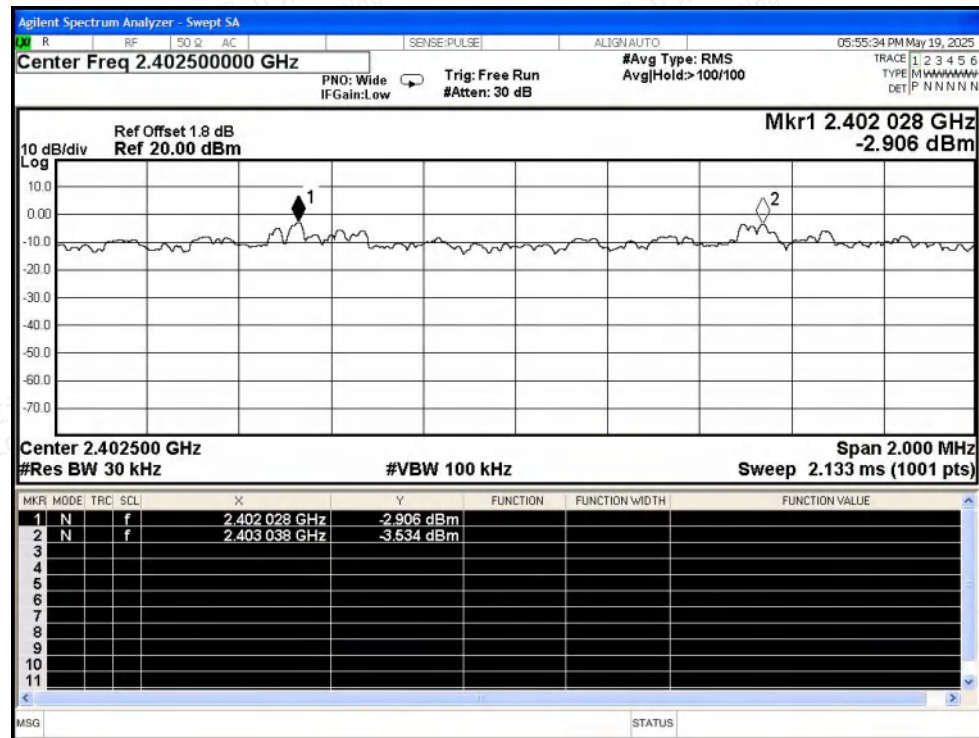


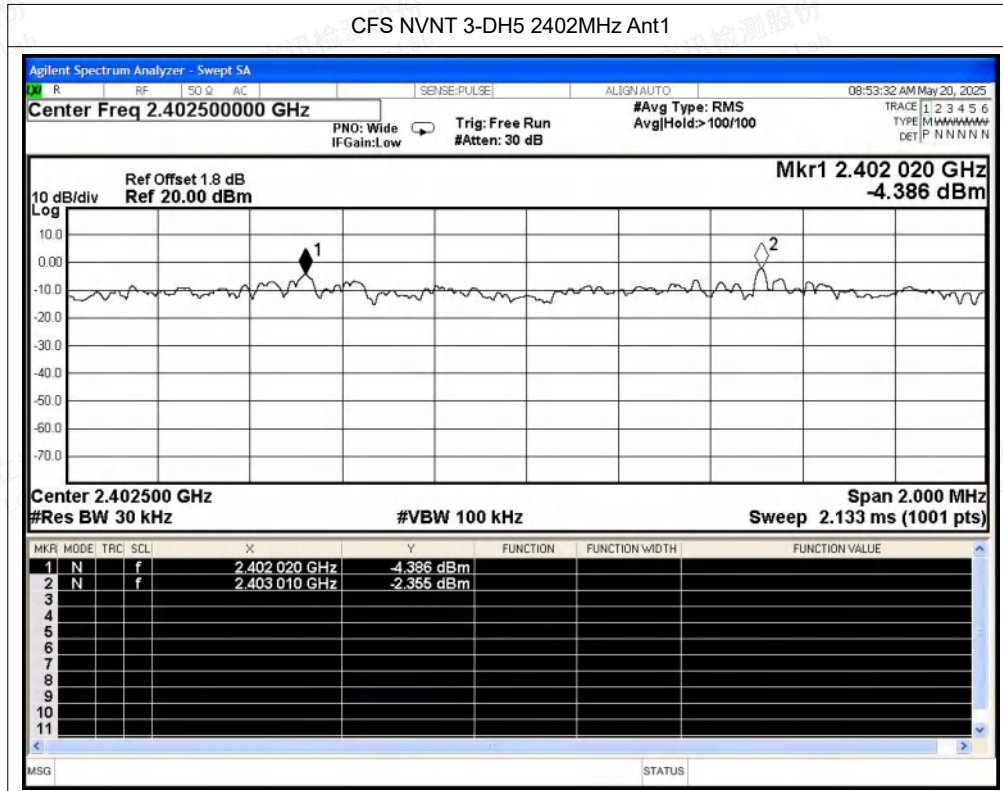
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







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	308.46	106	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	284.004	98	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	324.464	112	31600	400	Pass

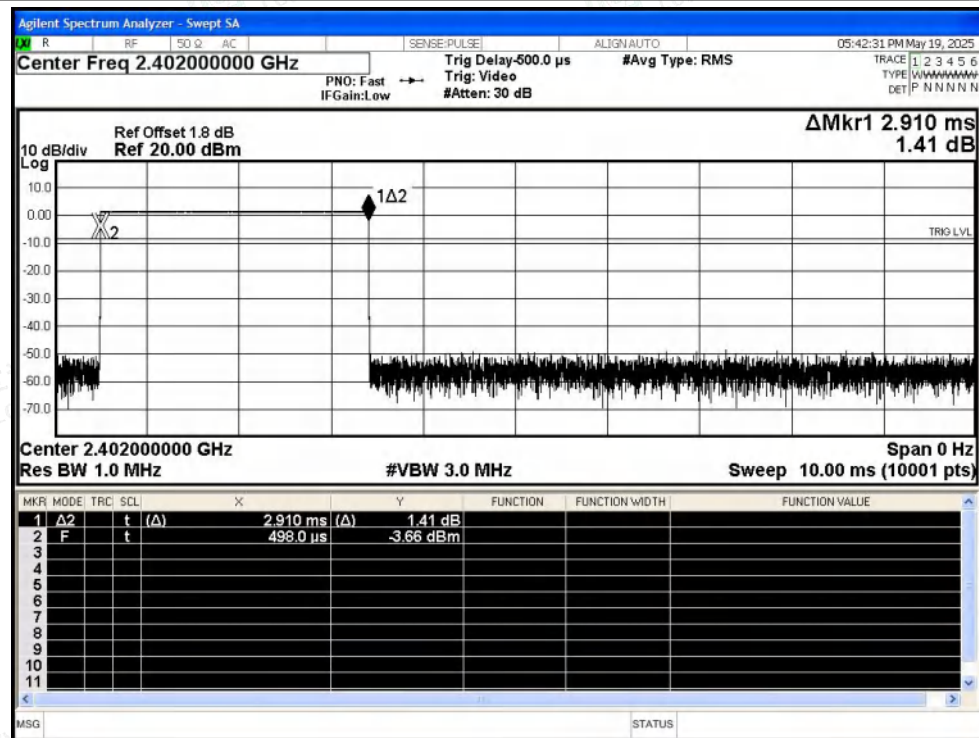


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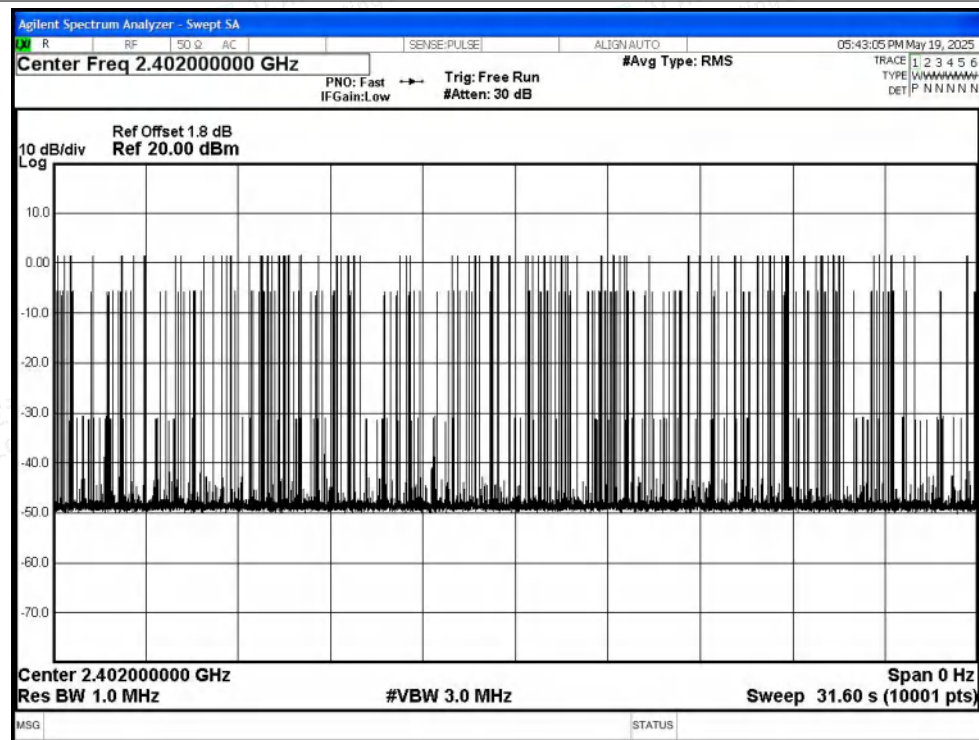


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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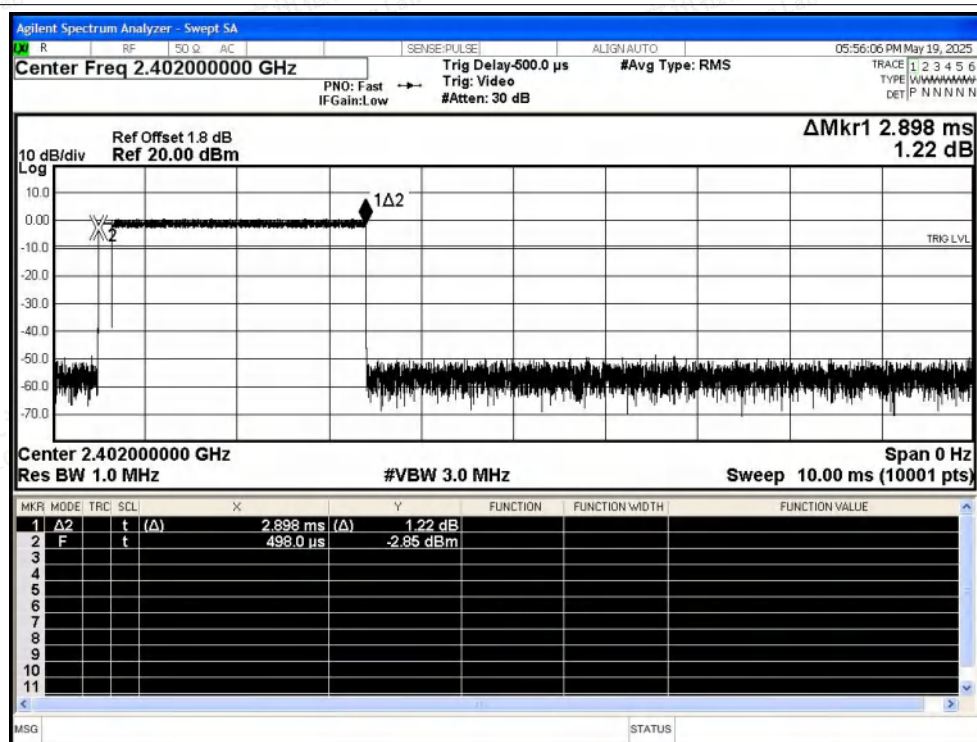
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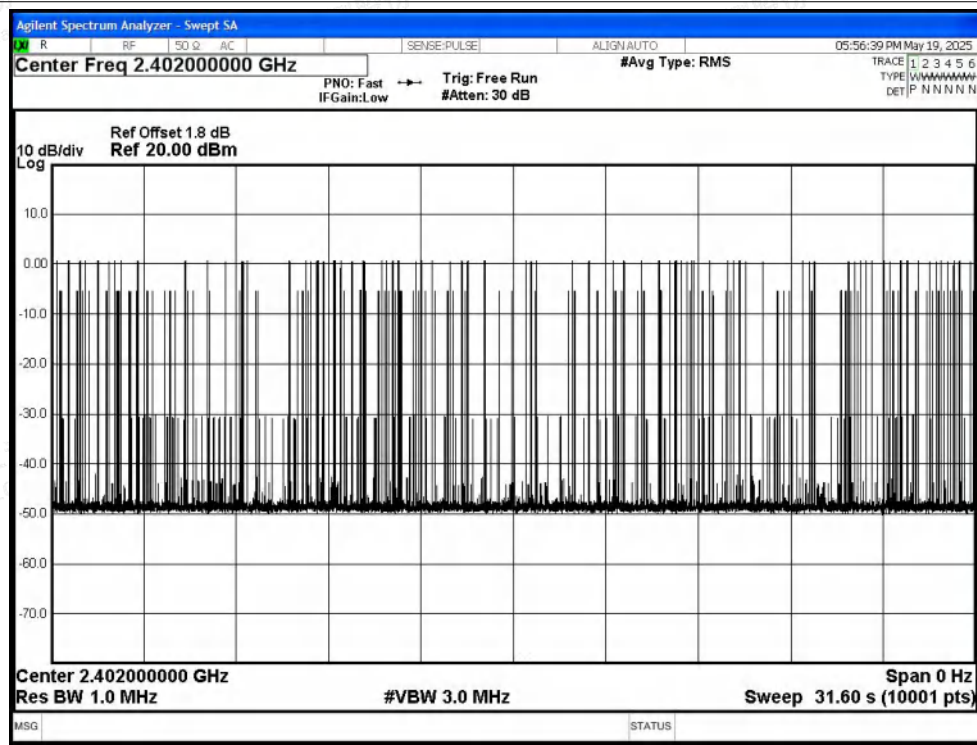
Scan code to check authenticity



Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

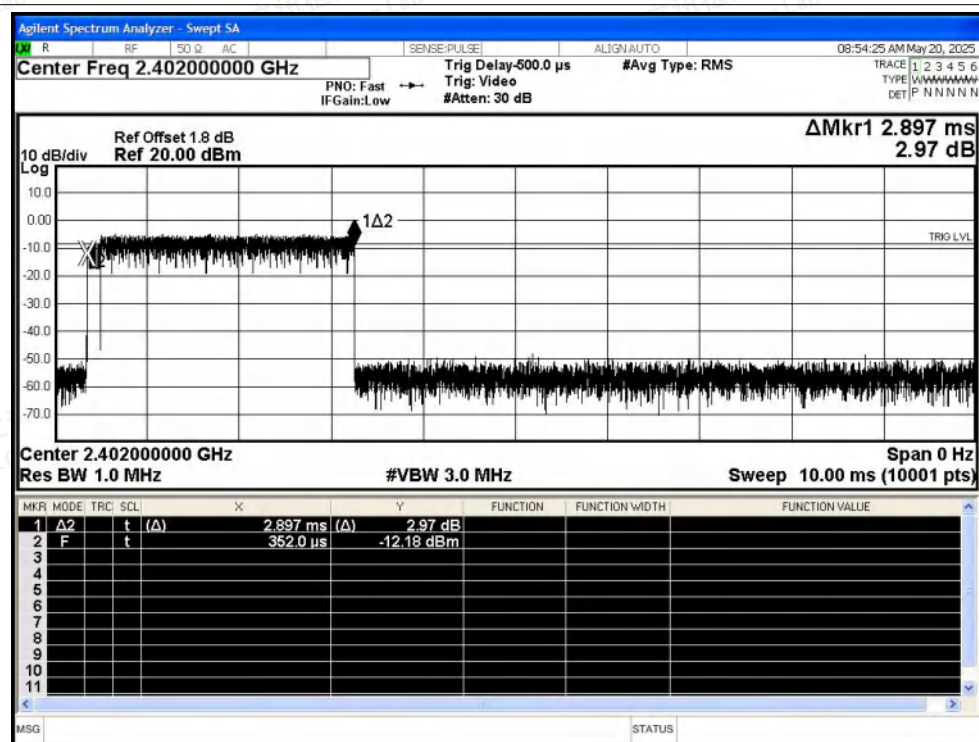
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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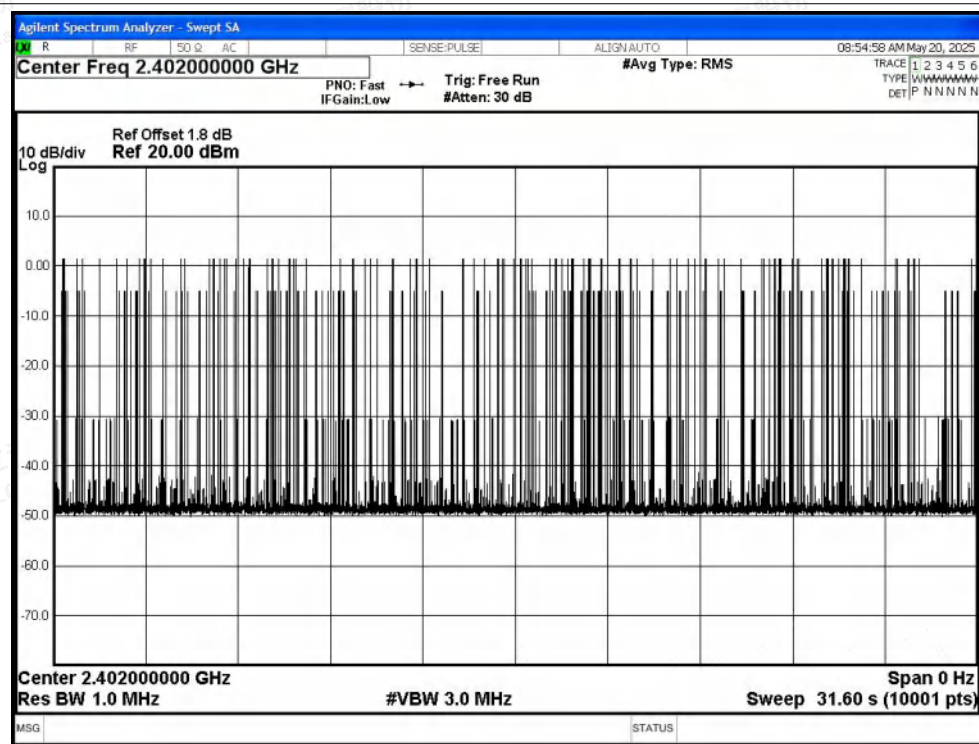
Scan code to check authenticity



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

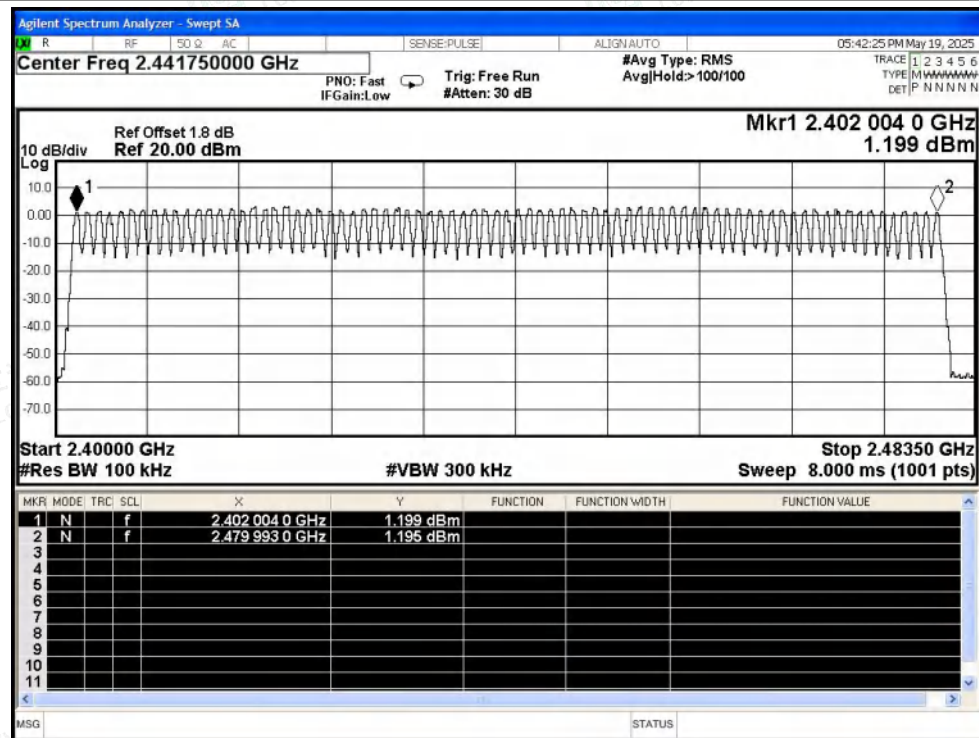
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



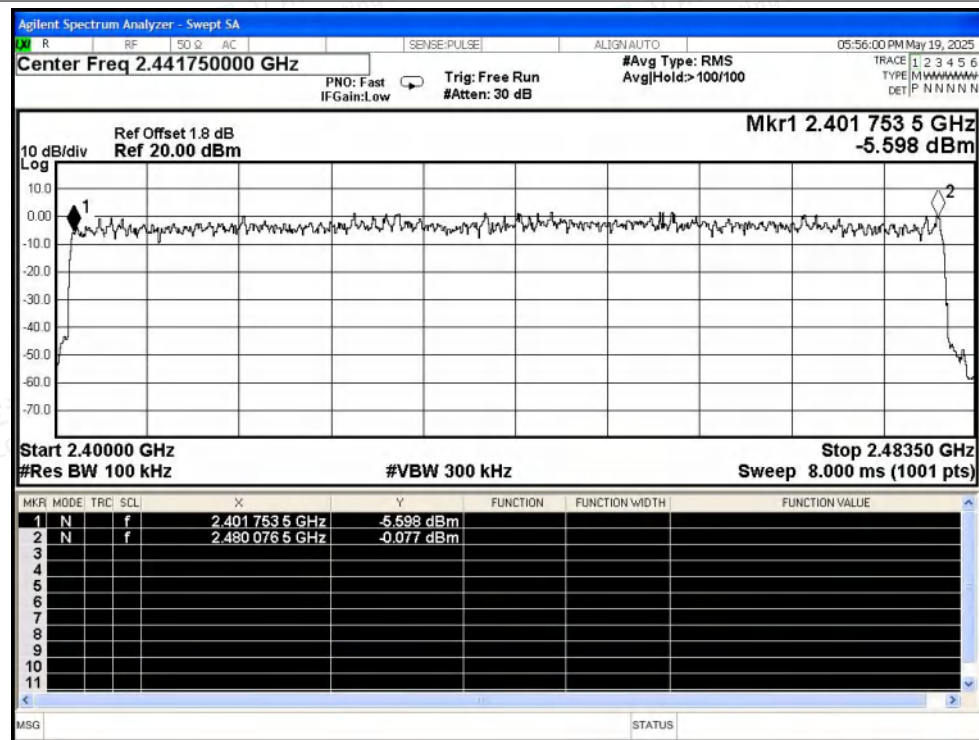


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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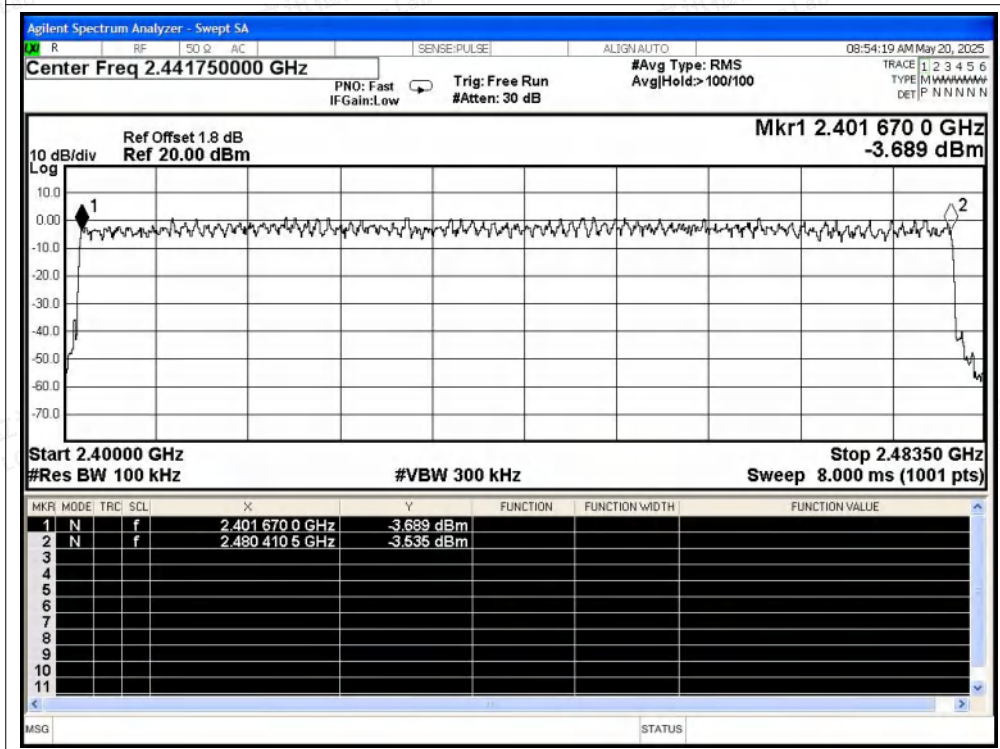
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Hopping No. NVNT 3-DH5 2402MHz Ant1



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A.6 Band Edge

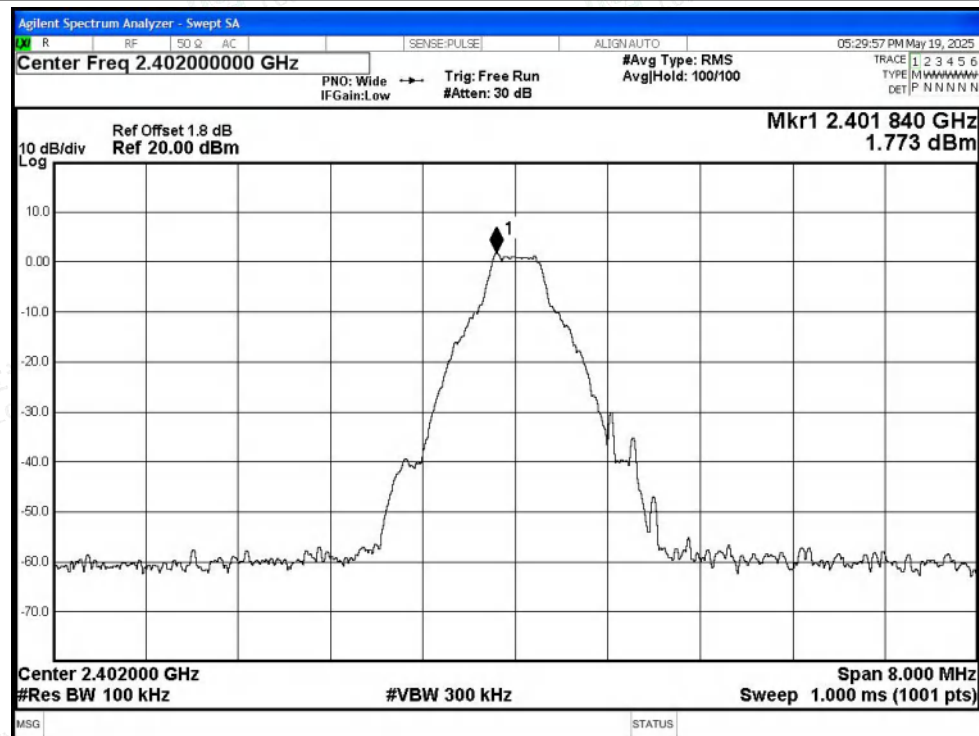
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.71	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.81	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.52	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.32	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.09	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.39	-20	Pass



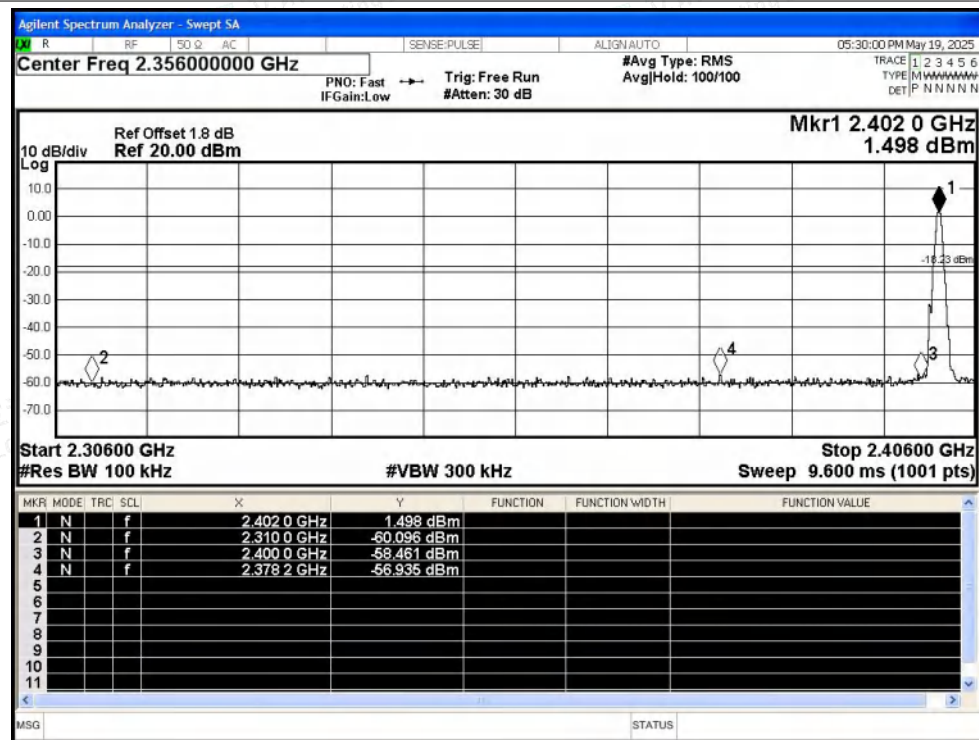


Test Graphs

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



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



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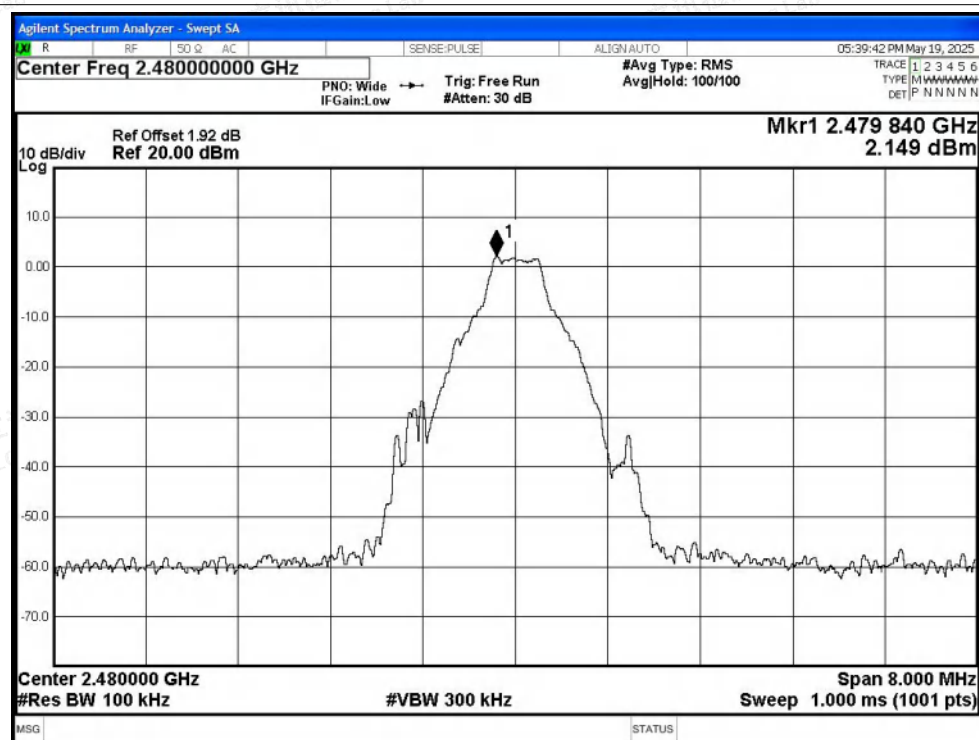
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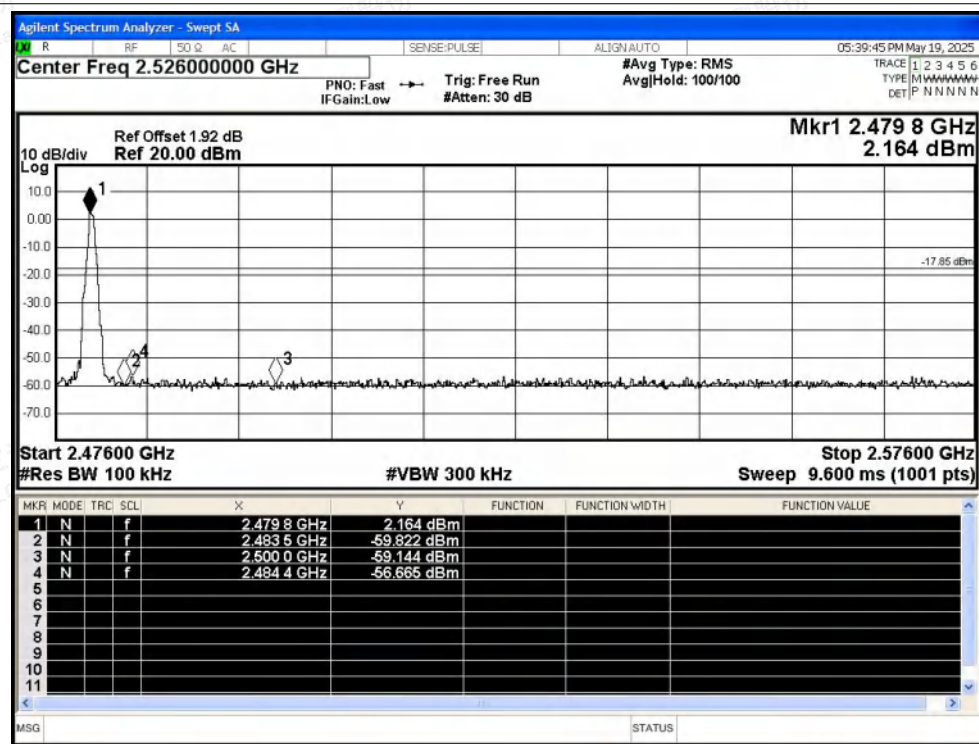
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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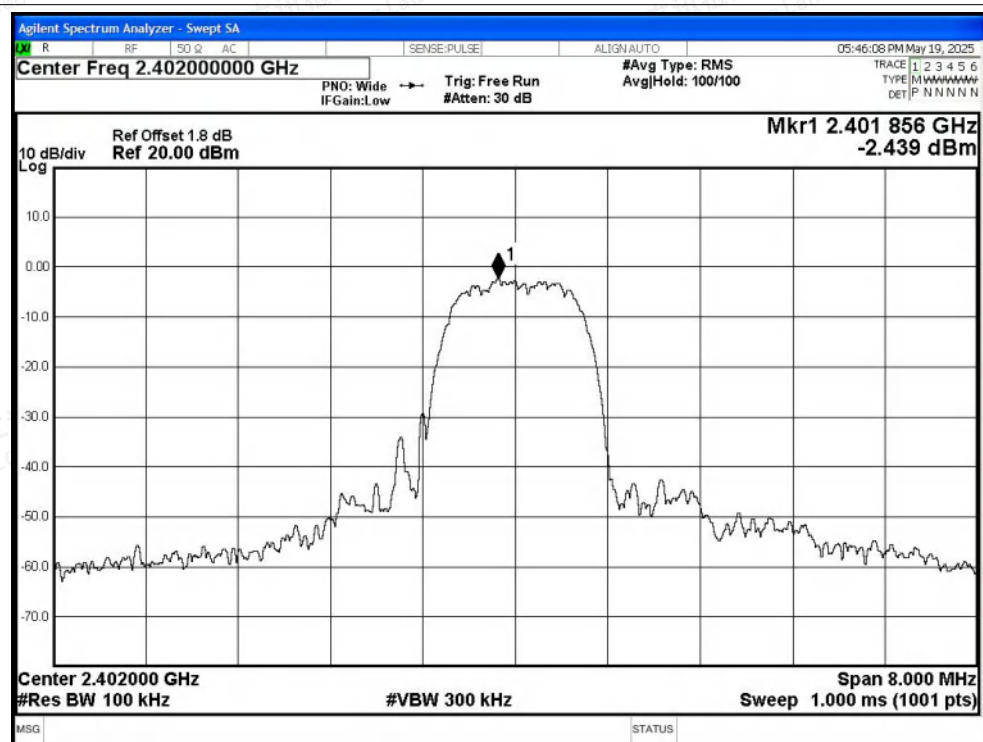
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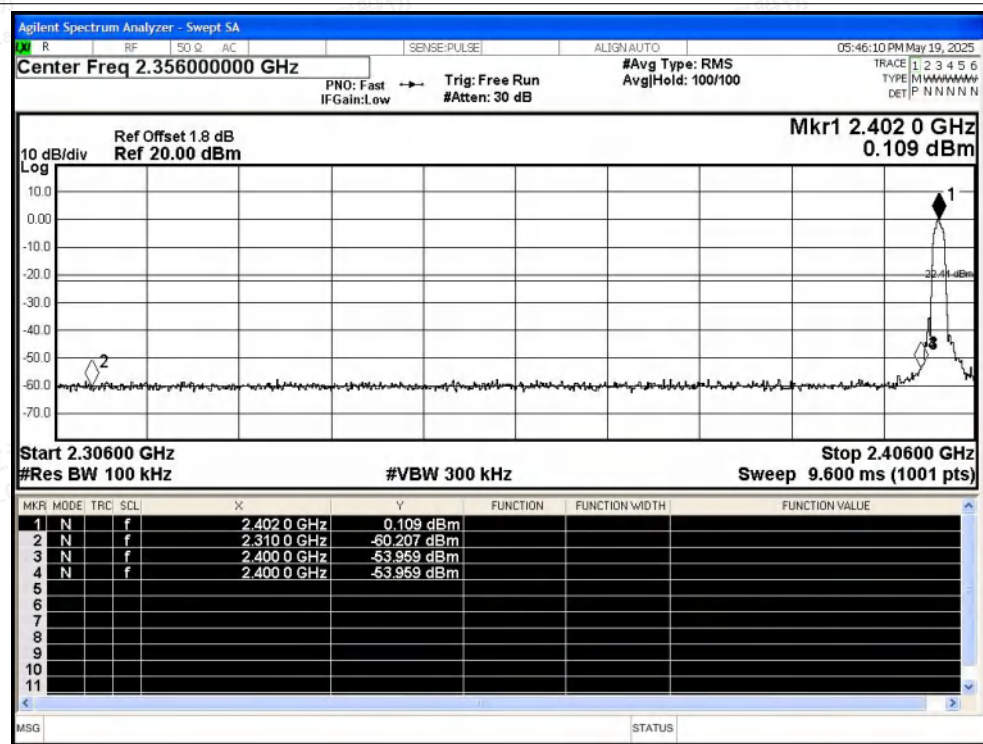
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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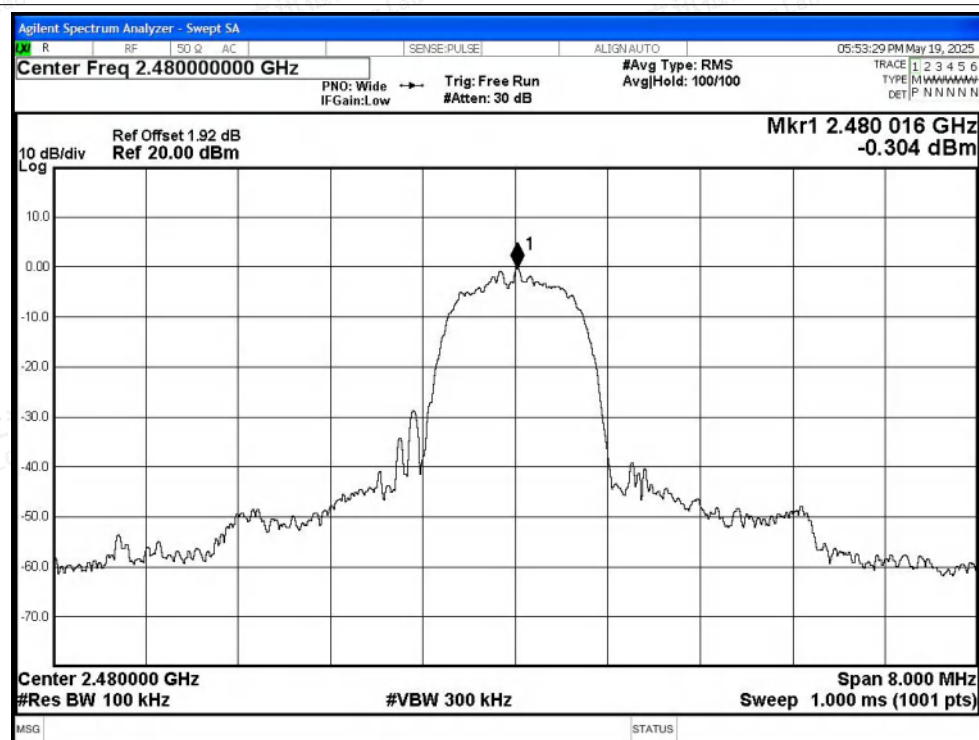
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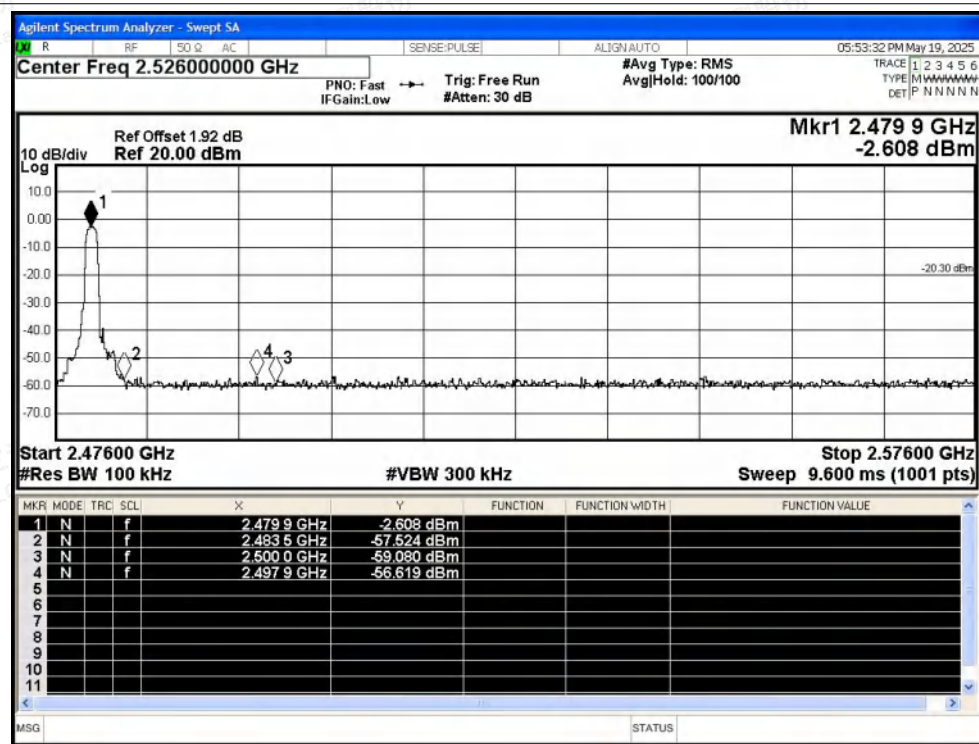
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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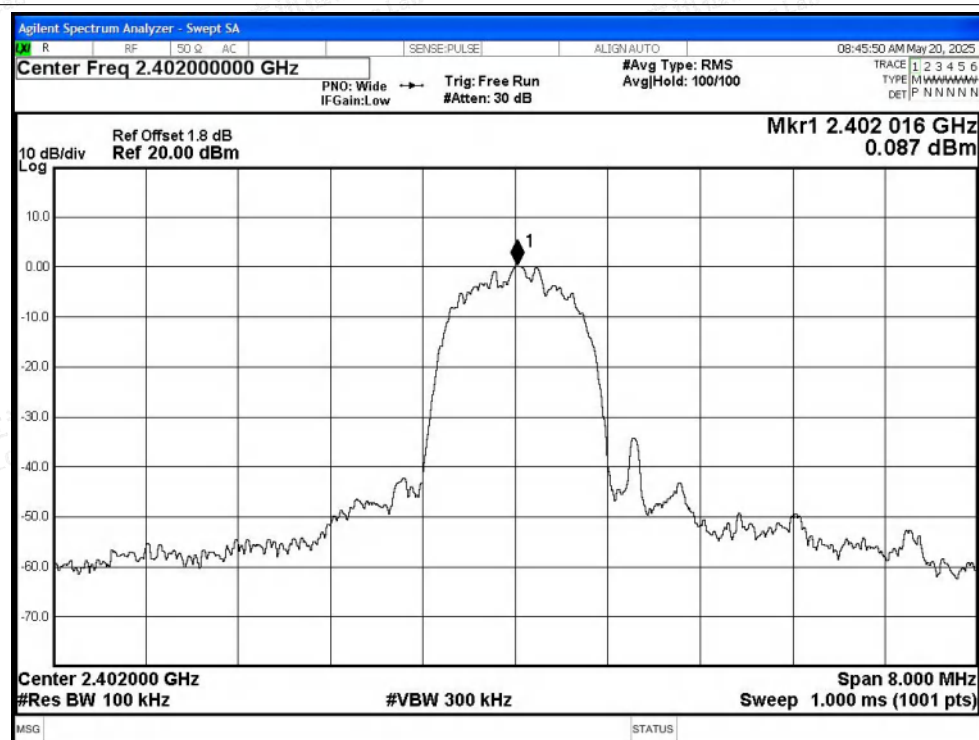
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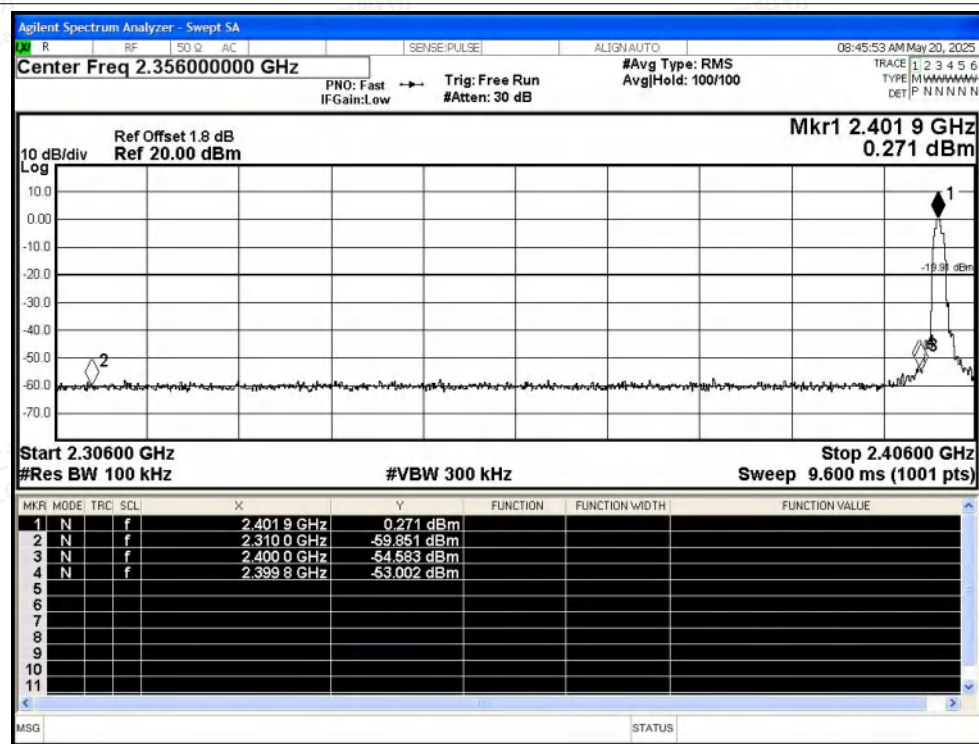
Scan code to check authenticity



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

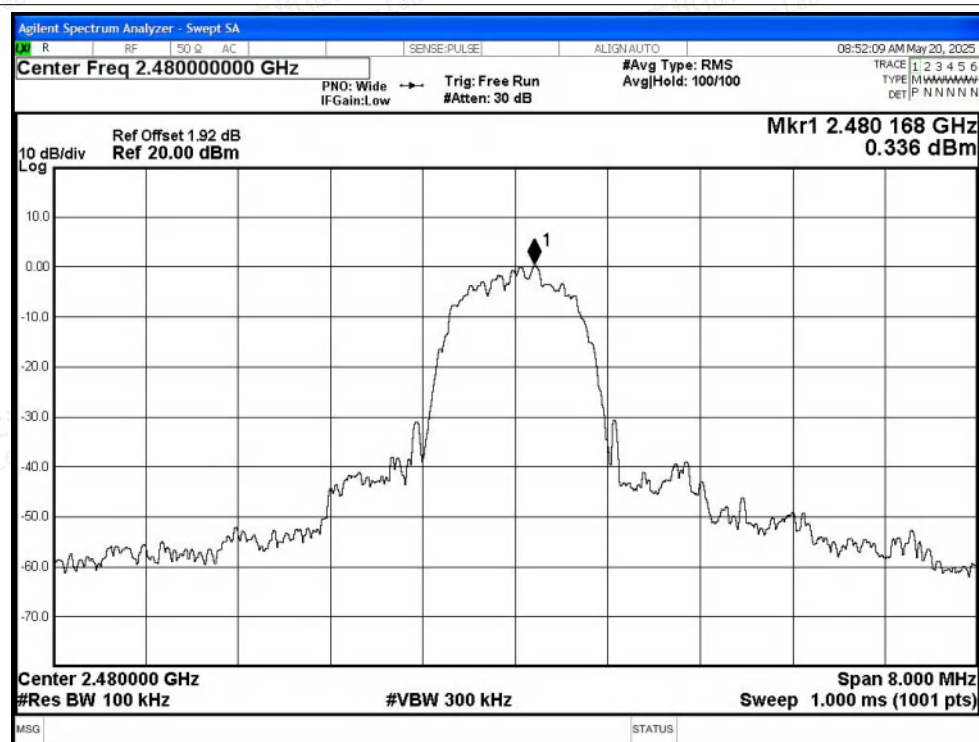


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

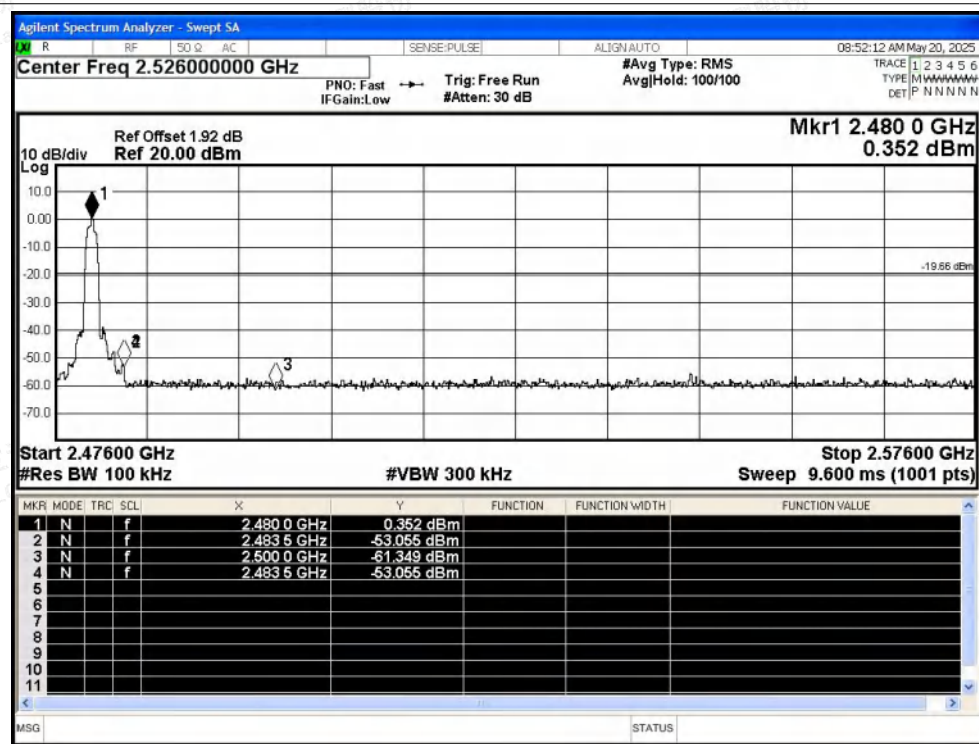




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



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(Hopping)

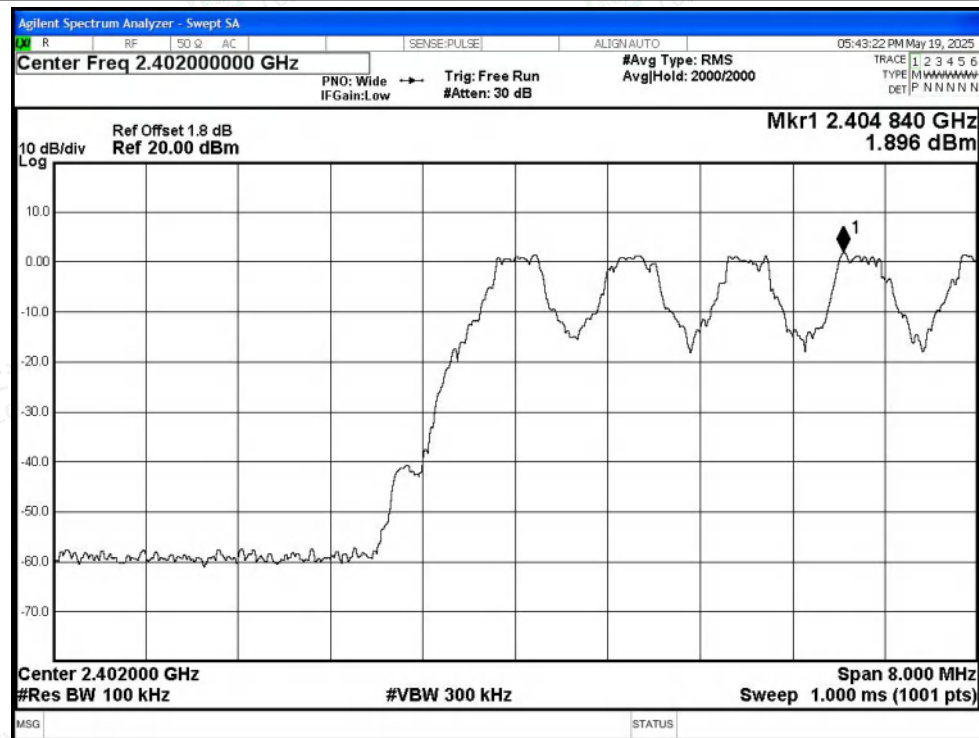
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-58.33	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.21	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.89	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.19	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.42	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.14	-20	Pass



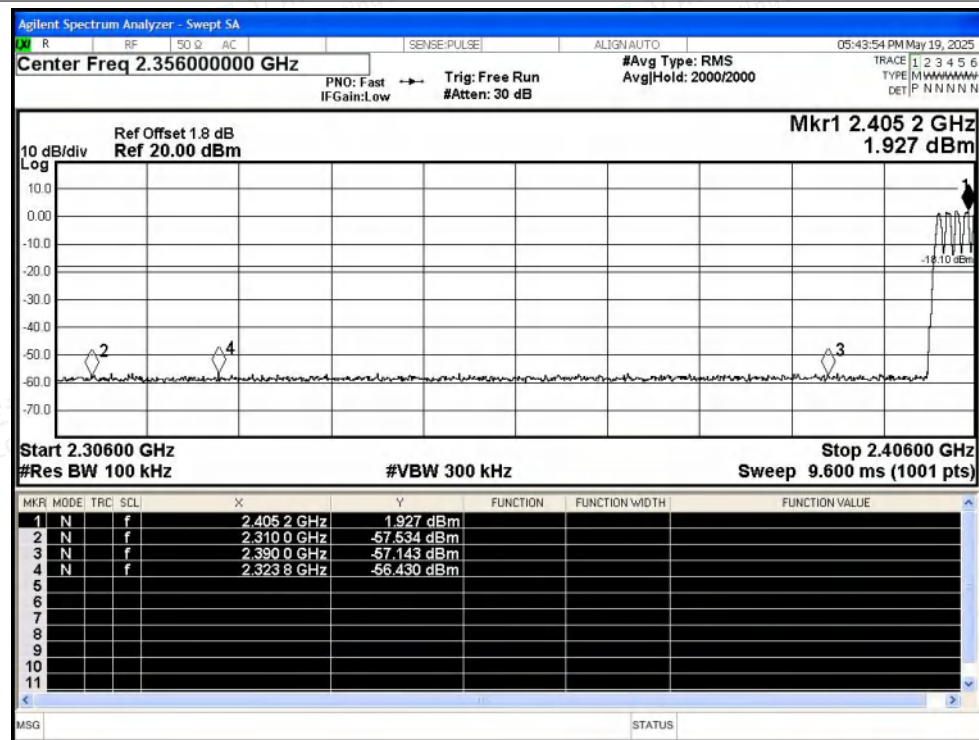


Test Graphs

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



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



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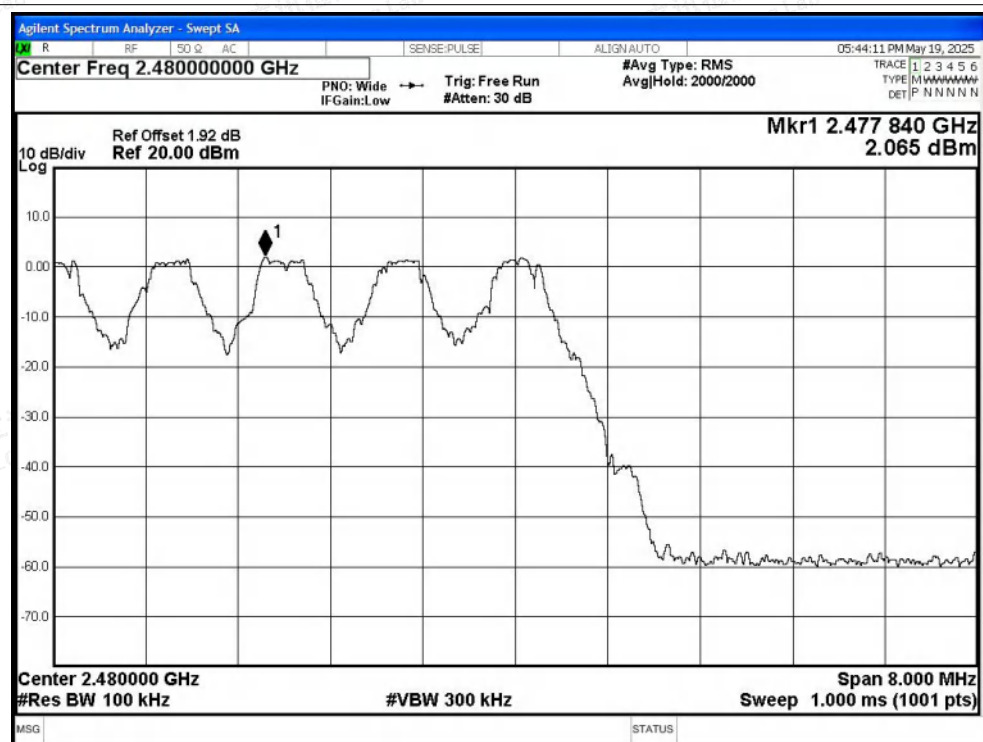
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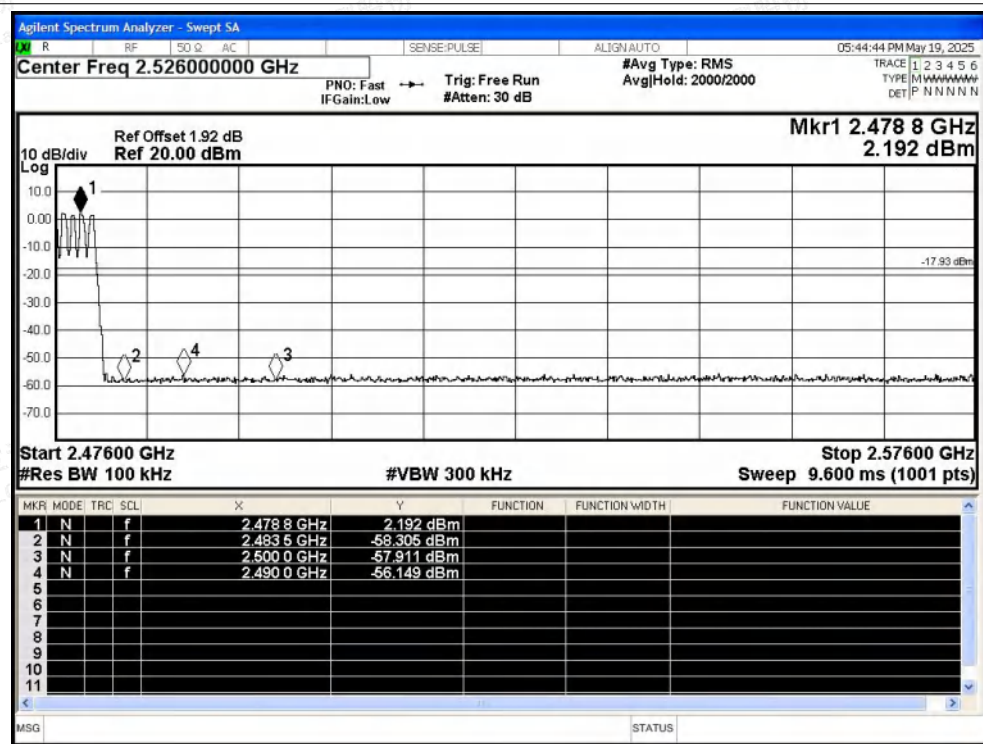
Scan code to check authenticity



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



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



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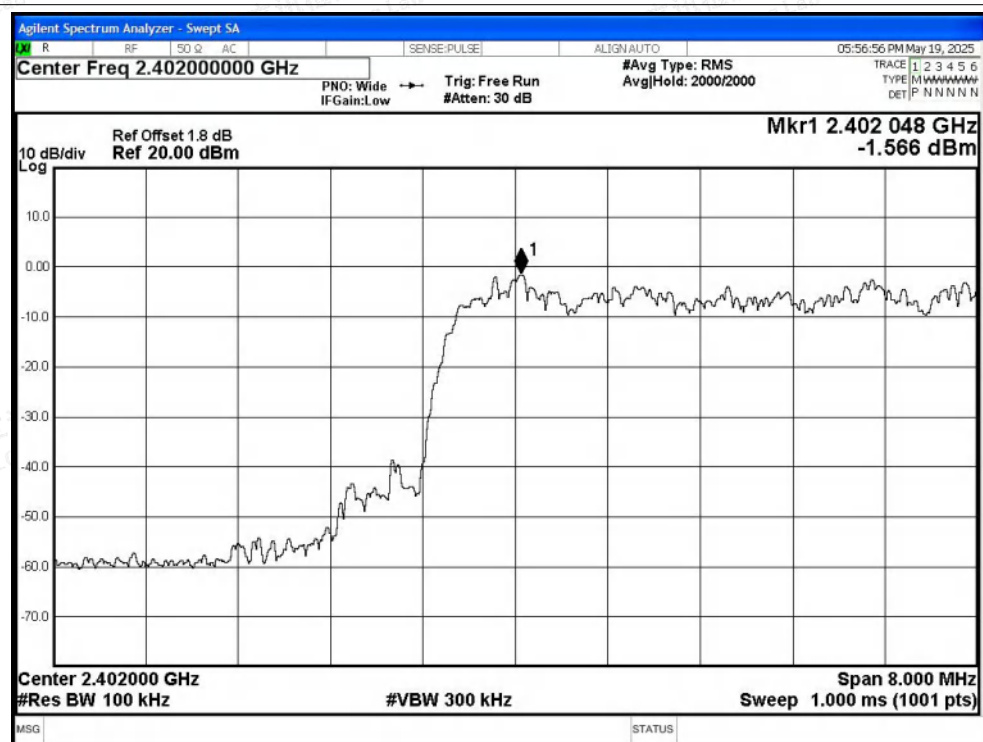
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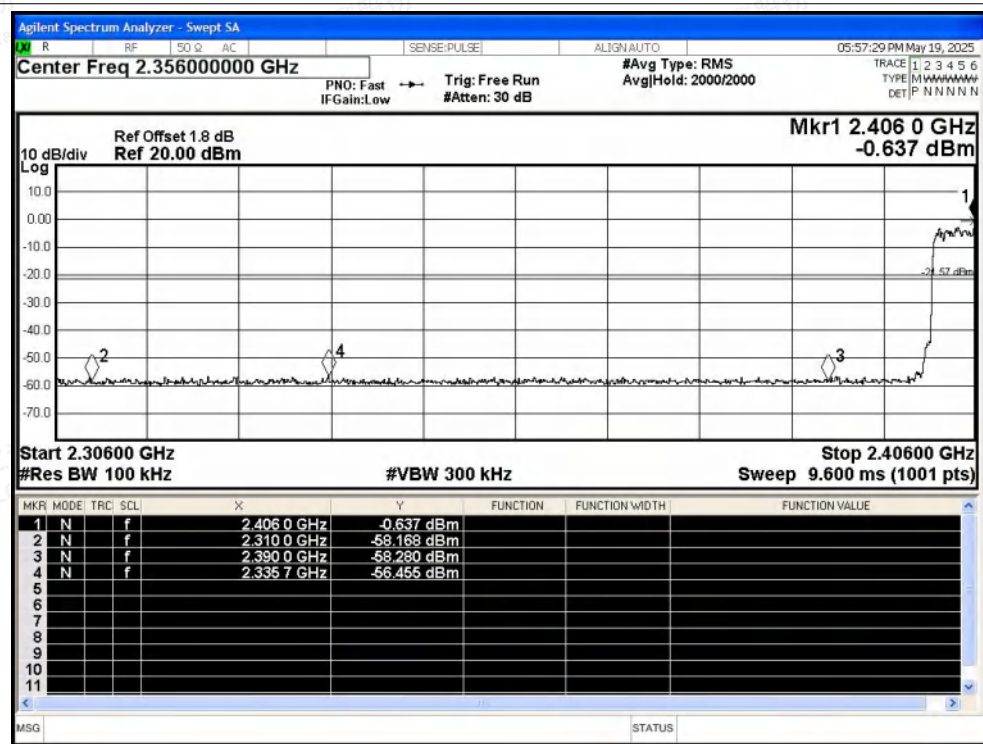
Scan code to check authenticity



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

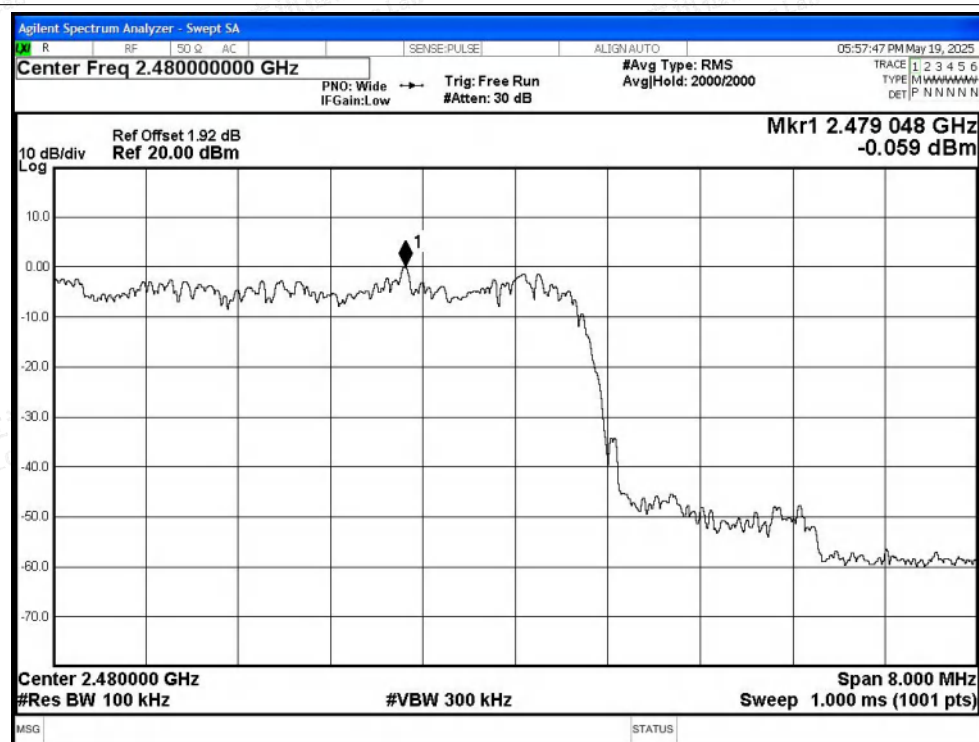


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

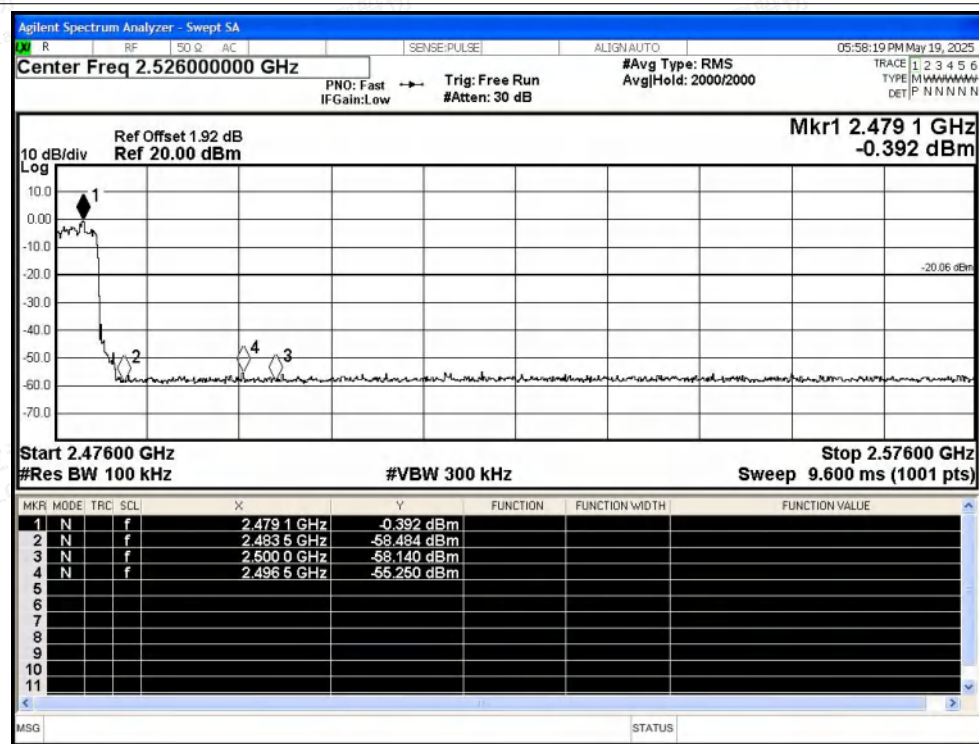




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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



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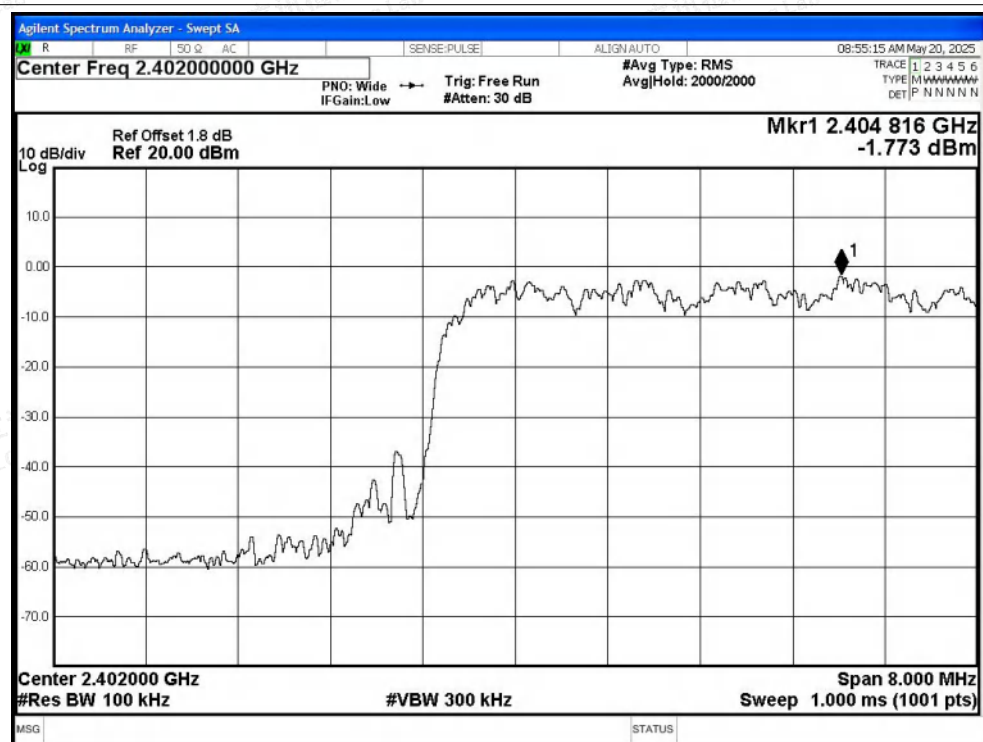
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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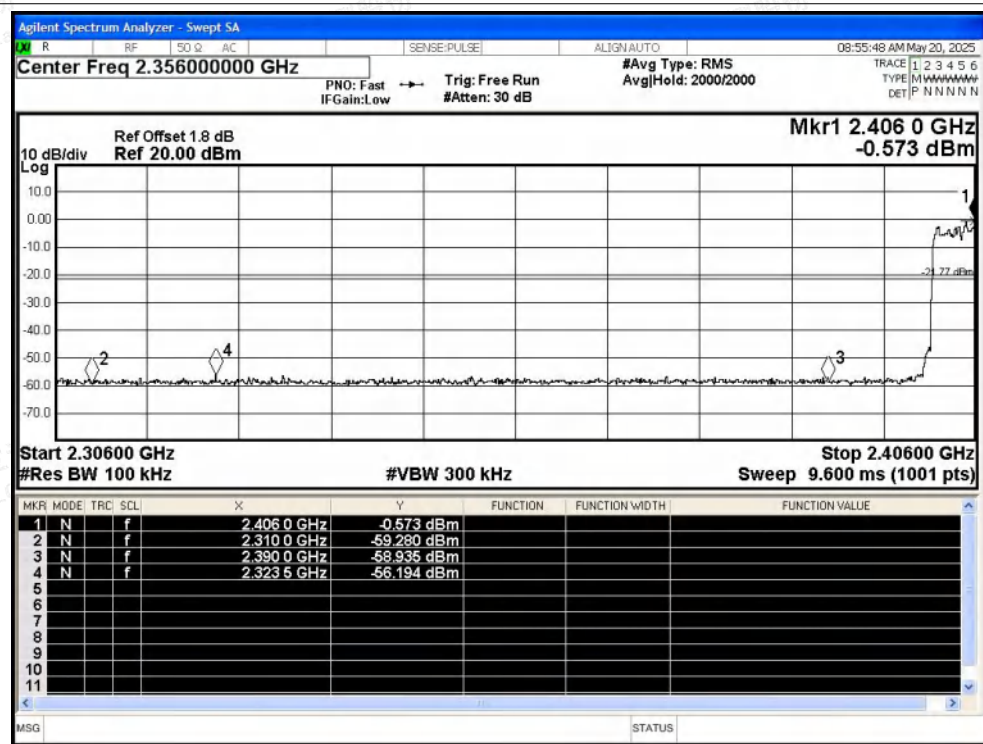
Scan code to check authenticity



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



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



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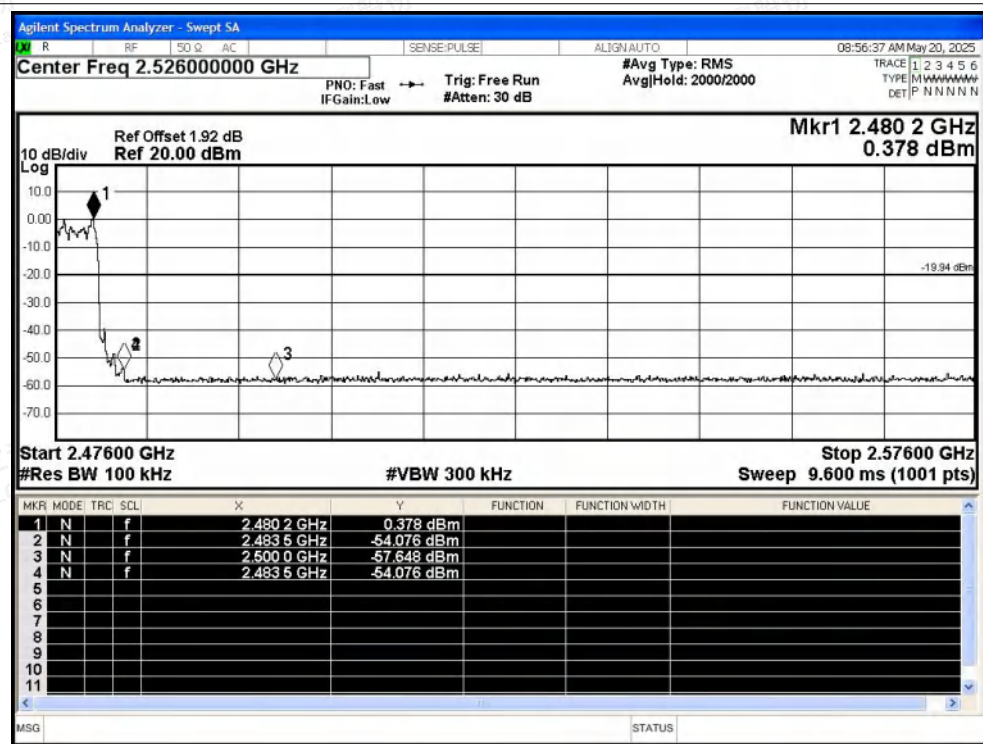
Scan code to check authenticity



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 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	Ant1	-49.54	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.6	-20	Pass
NVNT	1-DH5	2480	Ant1	-56.81	-20	Pass
NVNT	2-DH5	2402	Ant1	-56.1	-20	Pass
NVNT	2-DH5	2441	Ant1	-56.02	-20	Pass
NVNT	2-DH5	2480	Ant1	-55.15	-20	Pass
NVNT	3-DH5	2402	Ant1	-55.74	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.7	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.04	-20	Pass

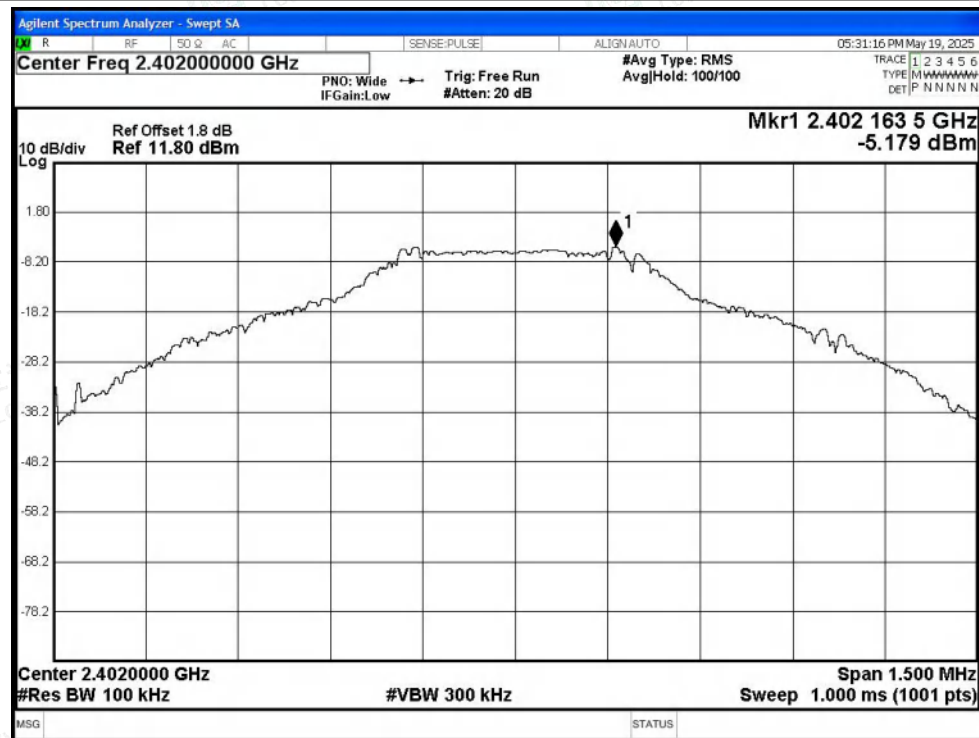


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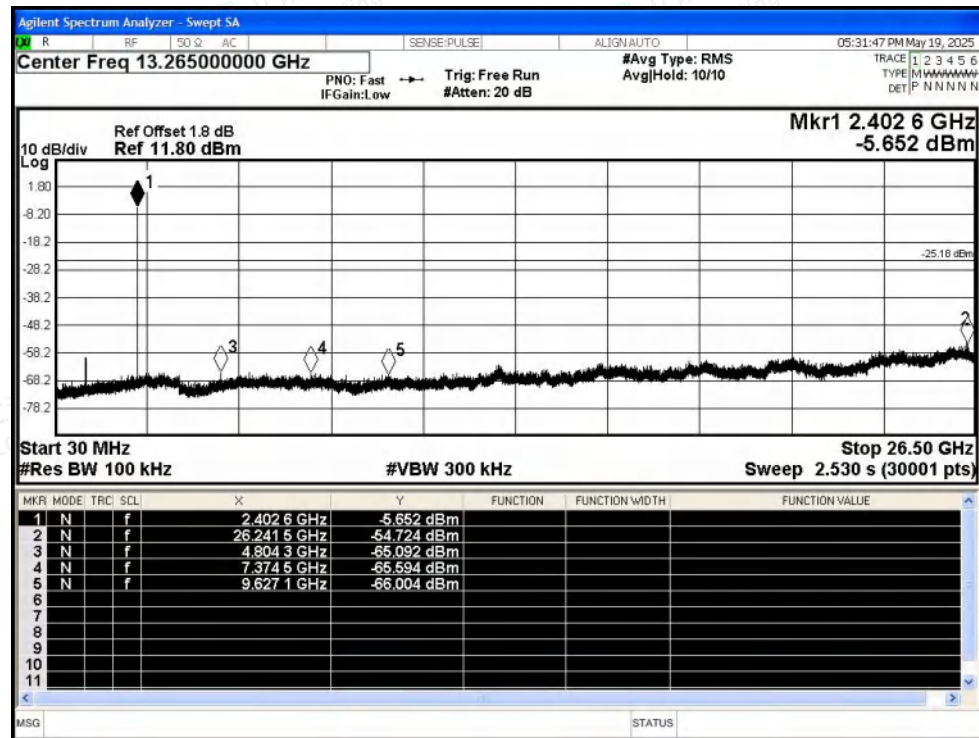


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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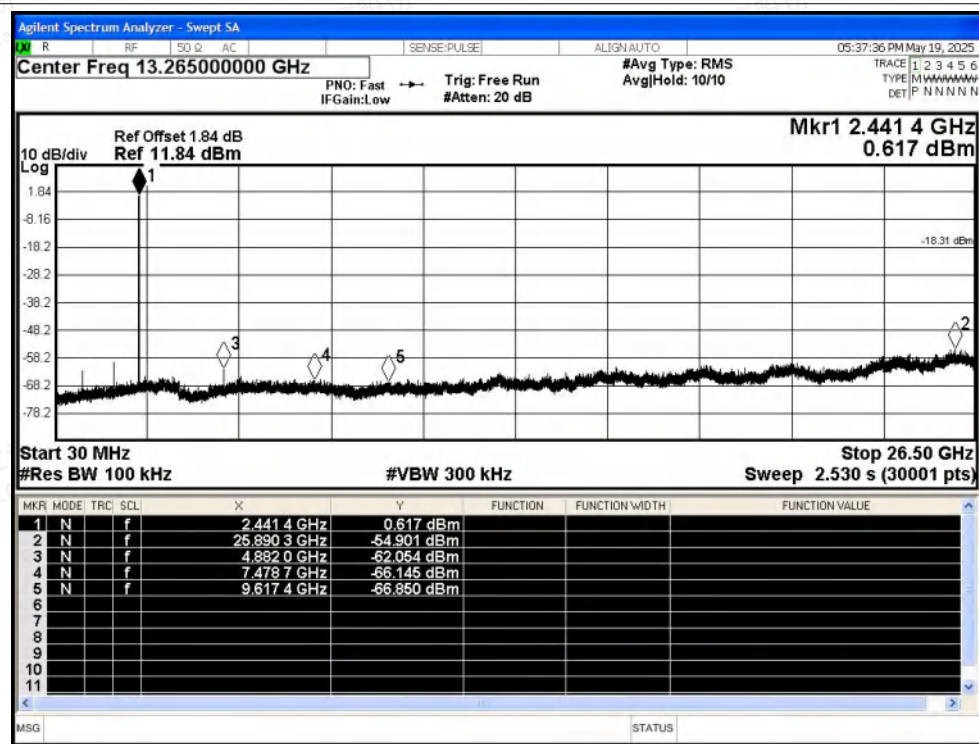
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

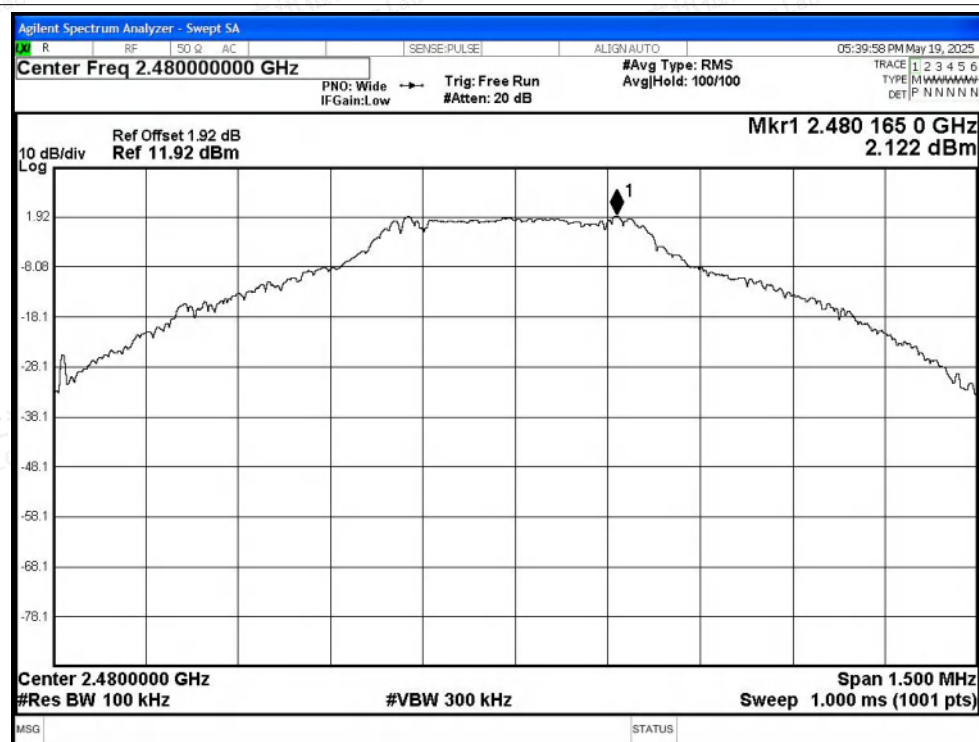


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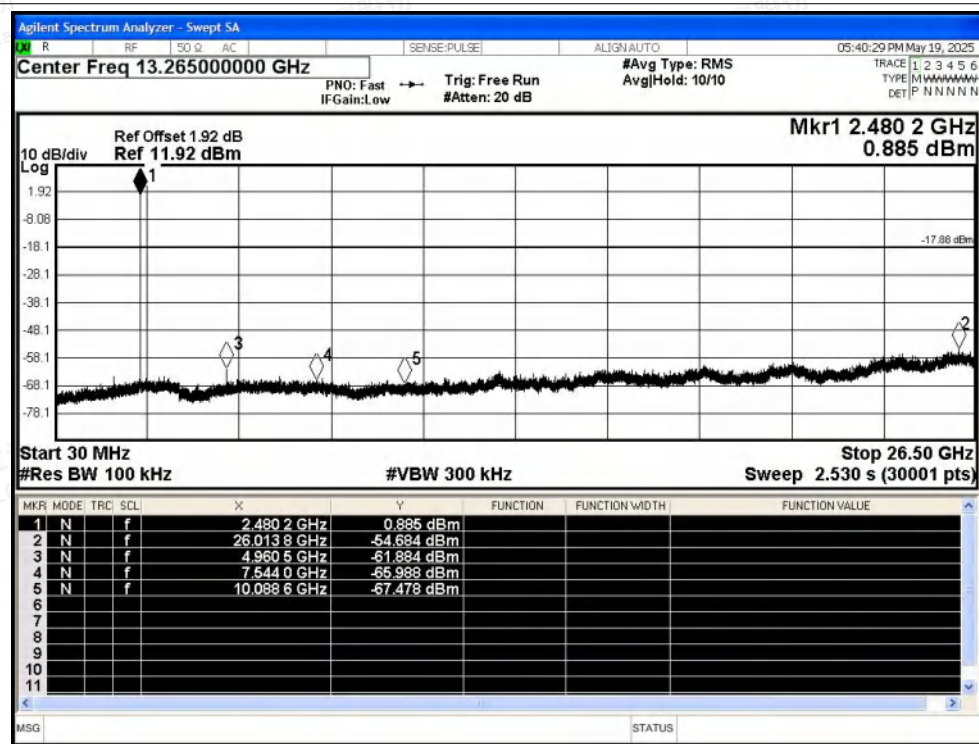




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

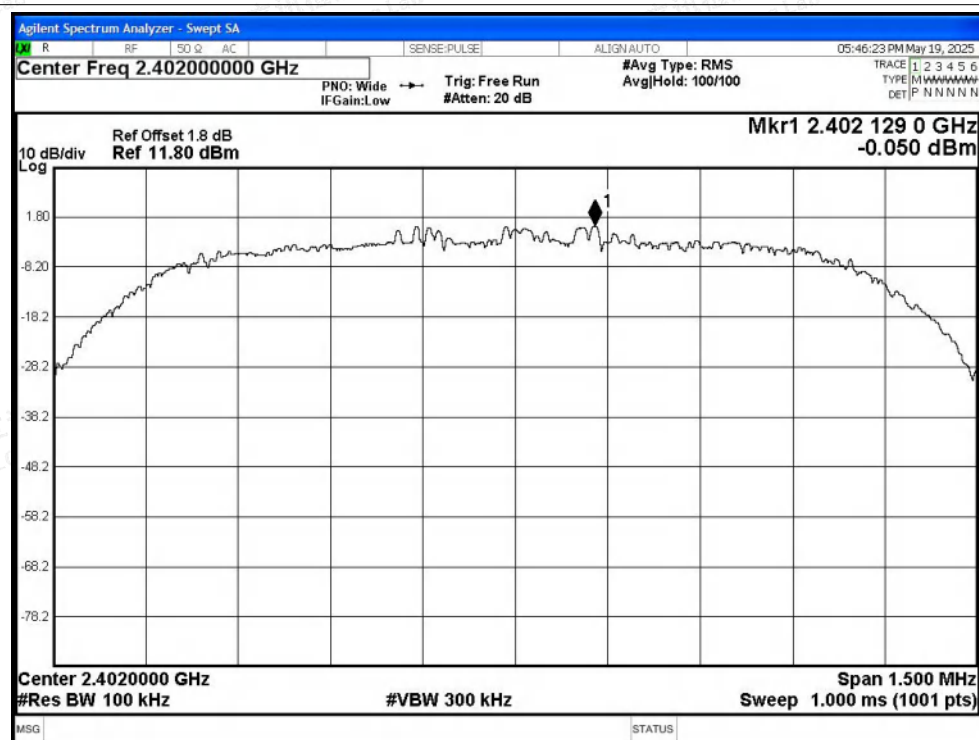
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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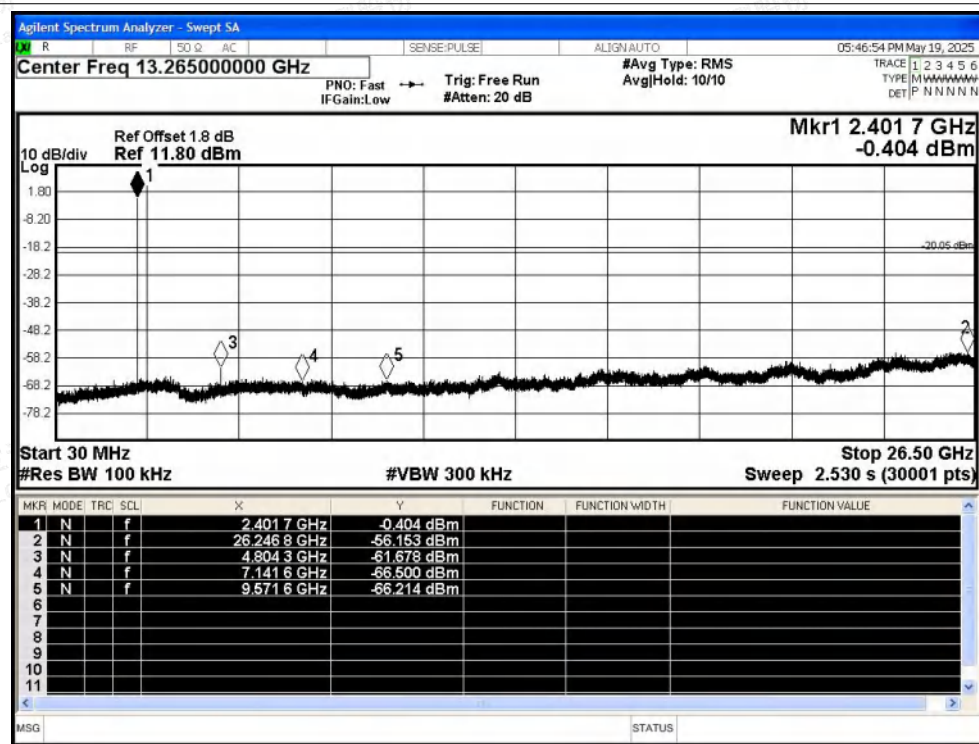
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

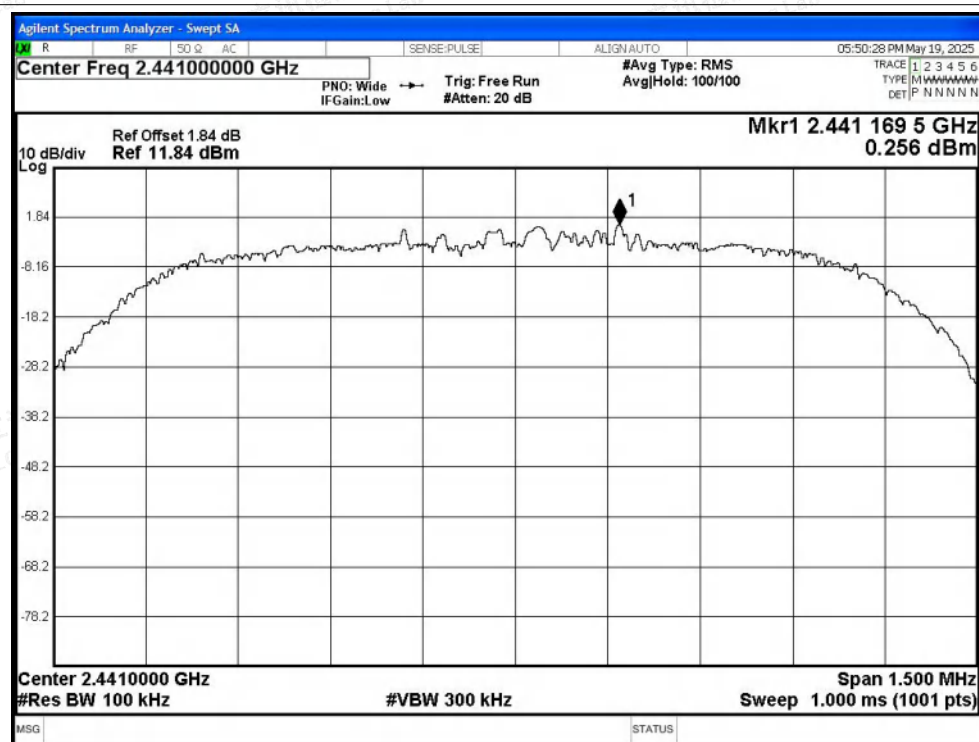
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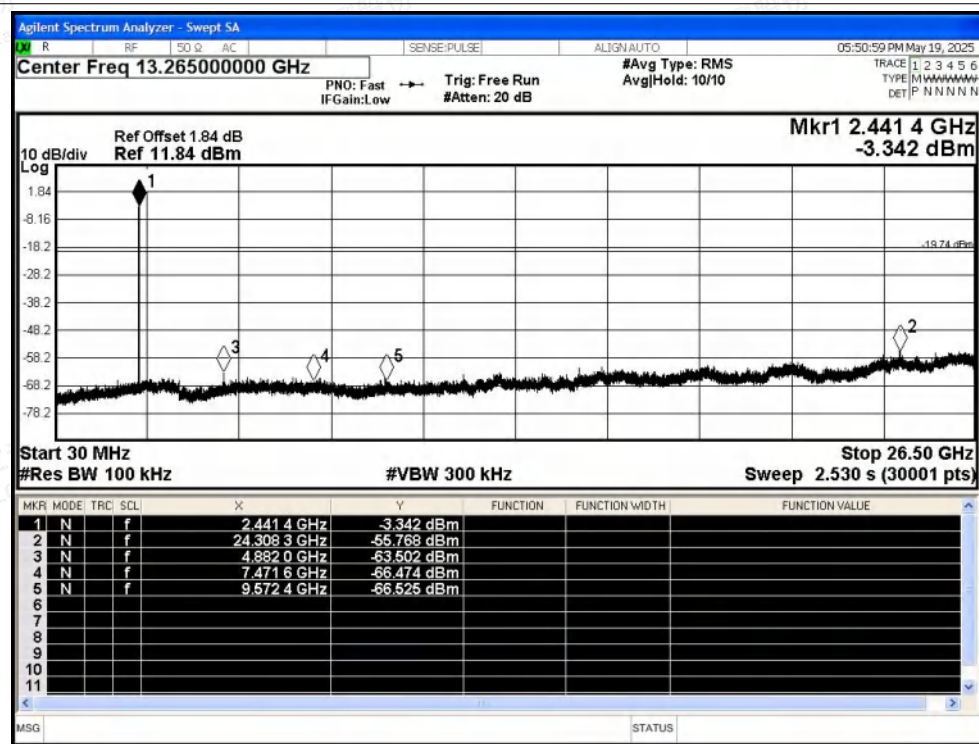
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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

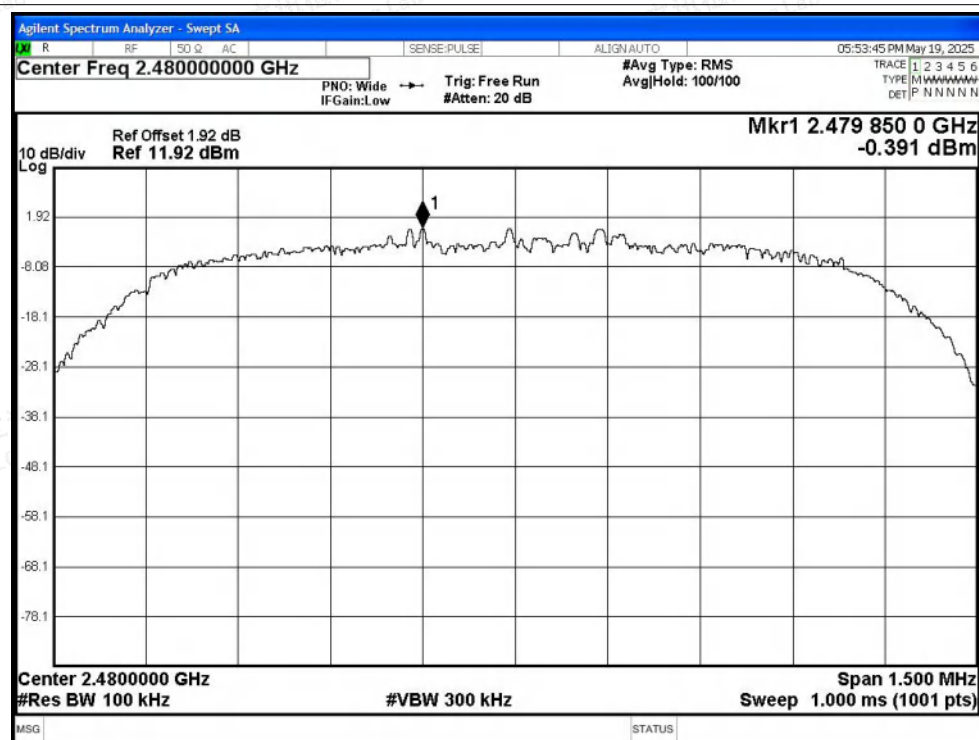
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

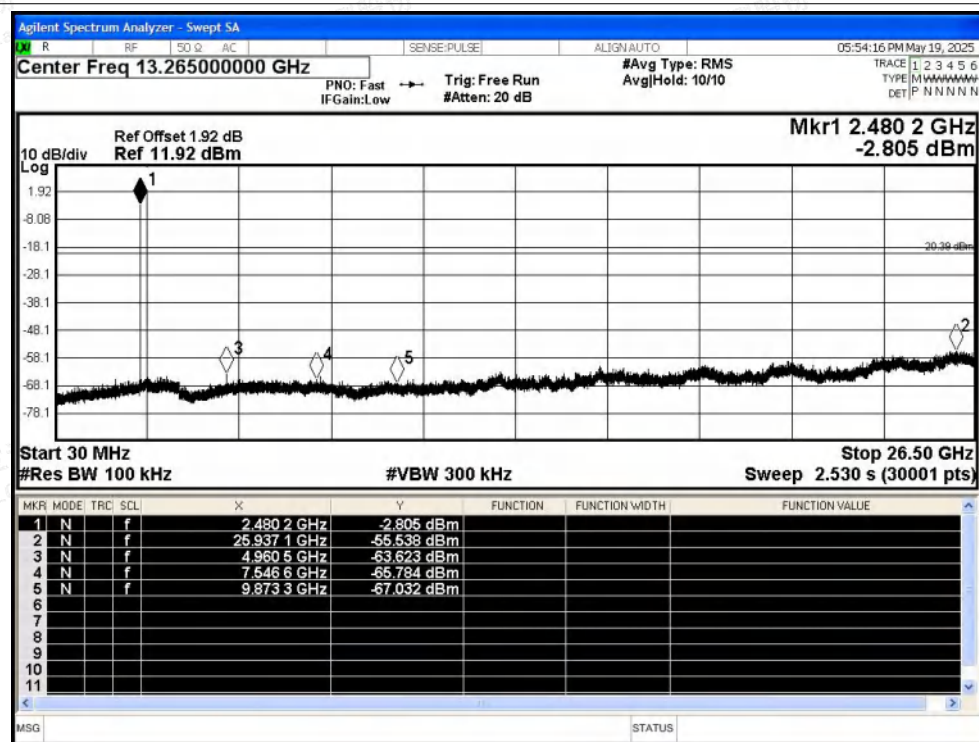
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

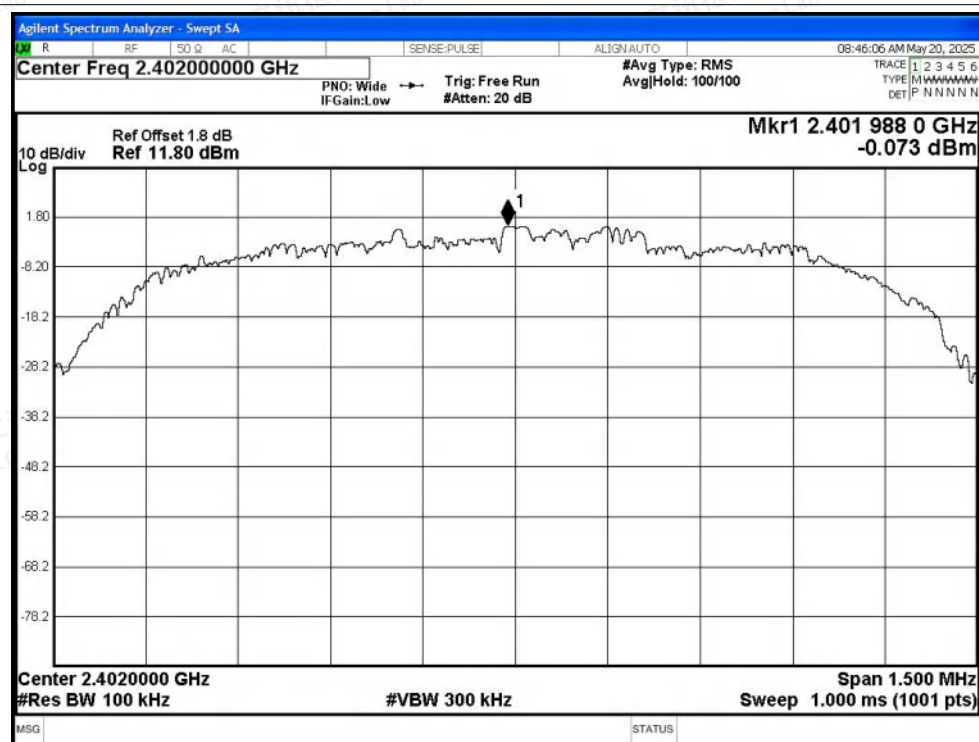


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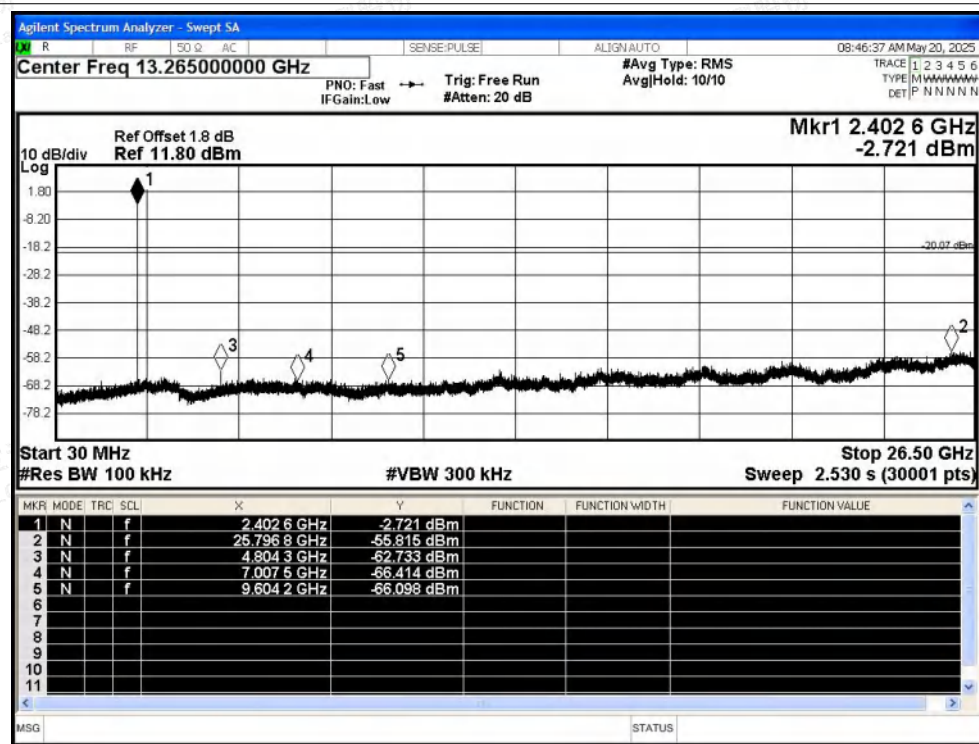




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

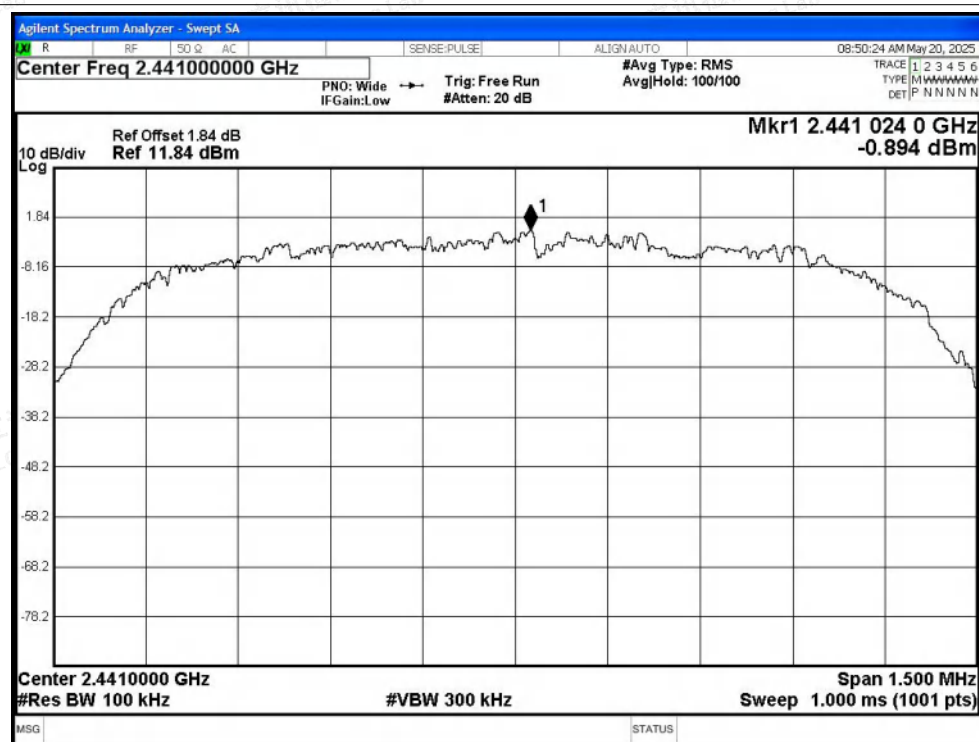


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

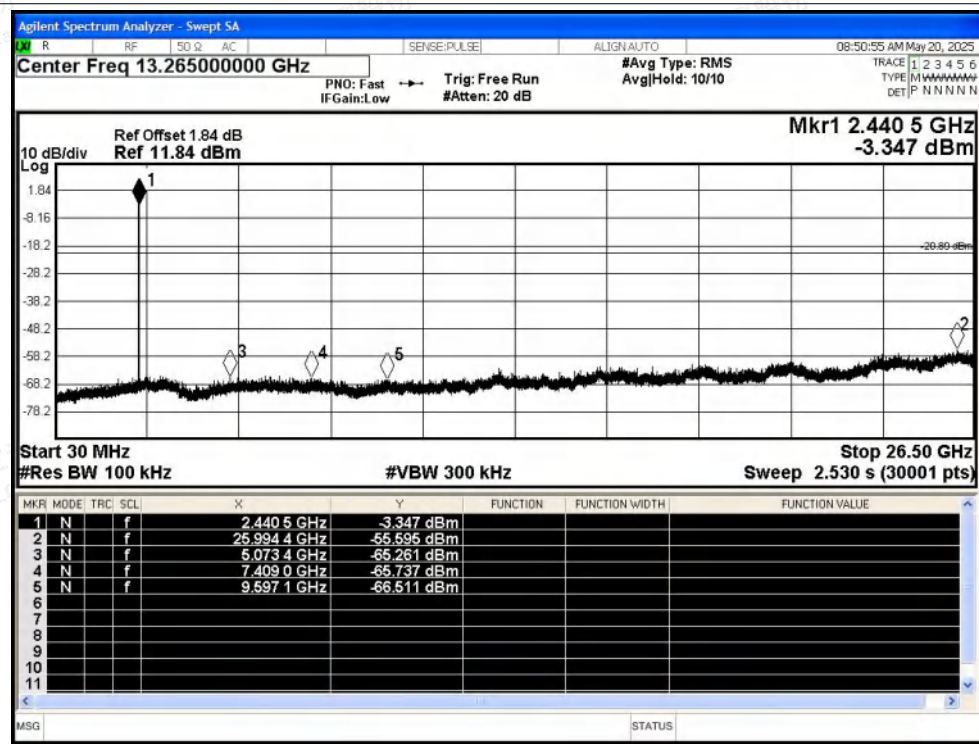




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

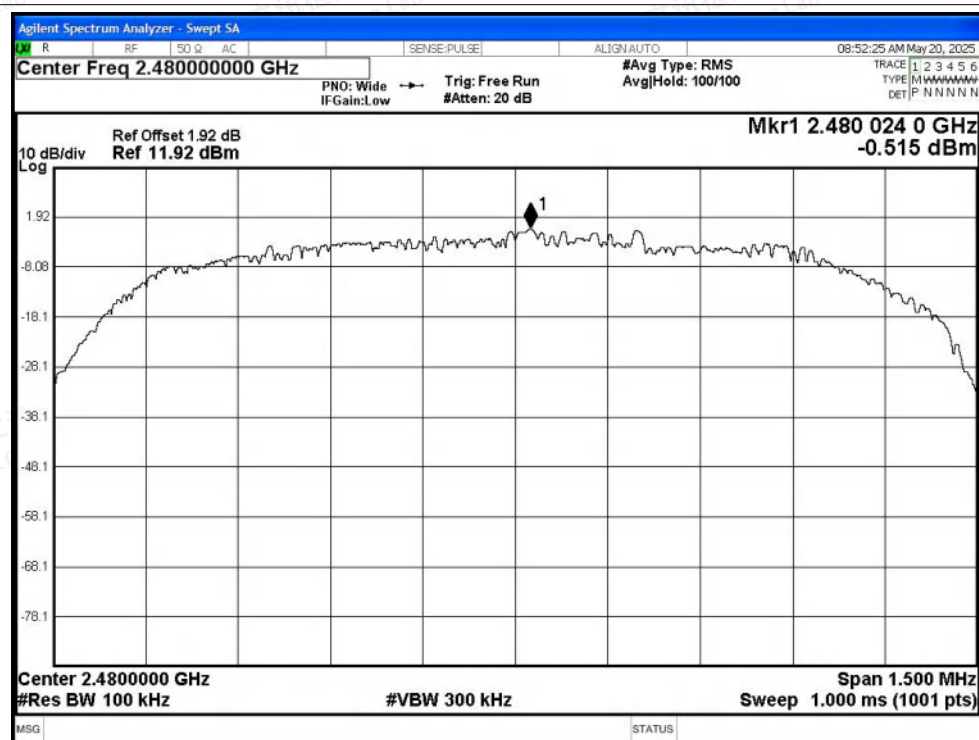
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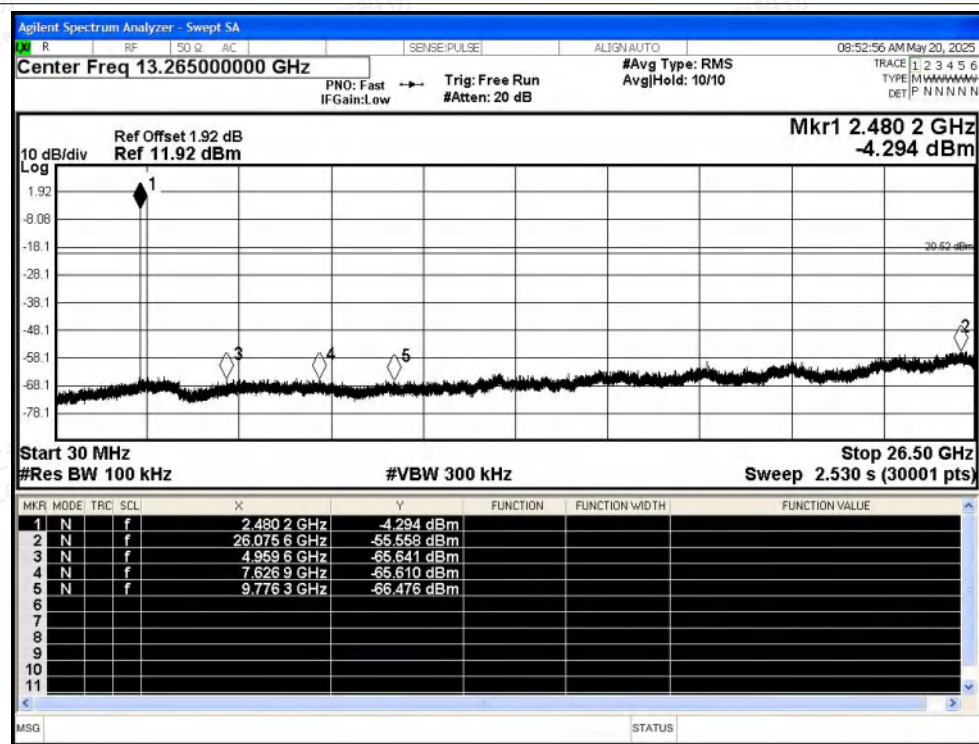
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

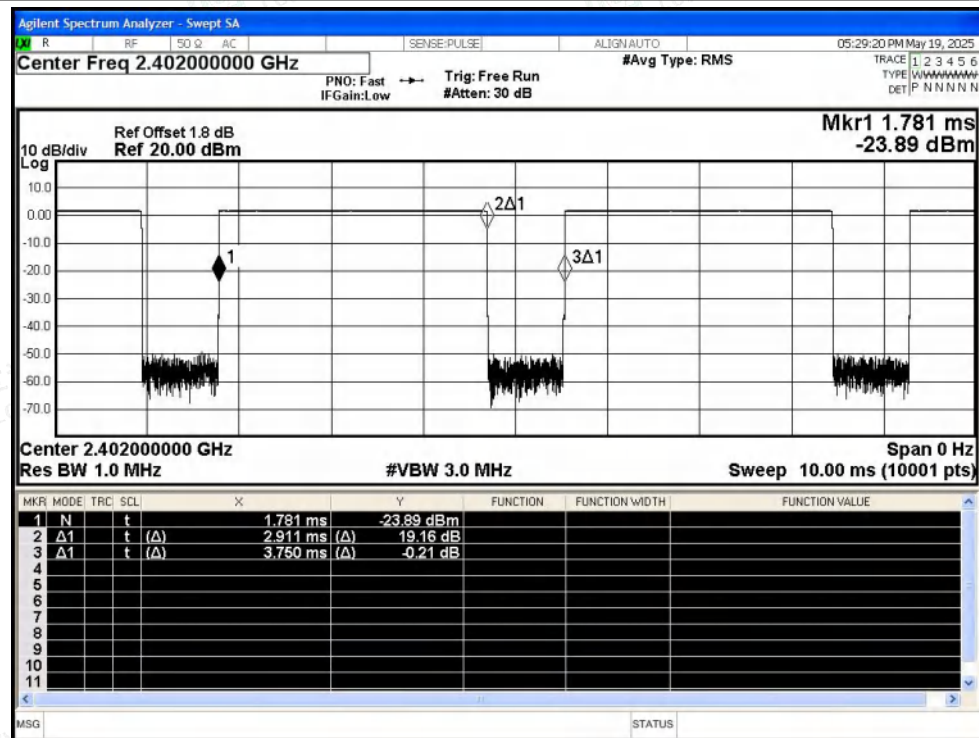
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.33	1.12	0.34
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



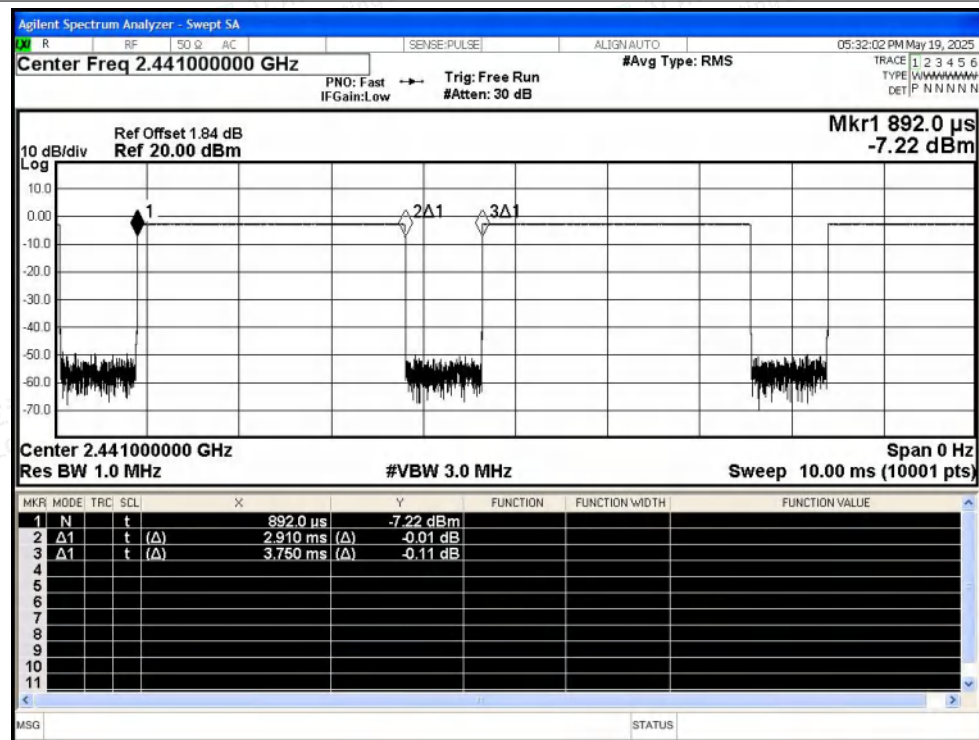


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

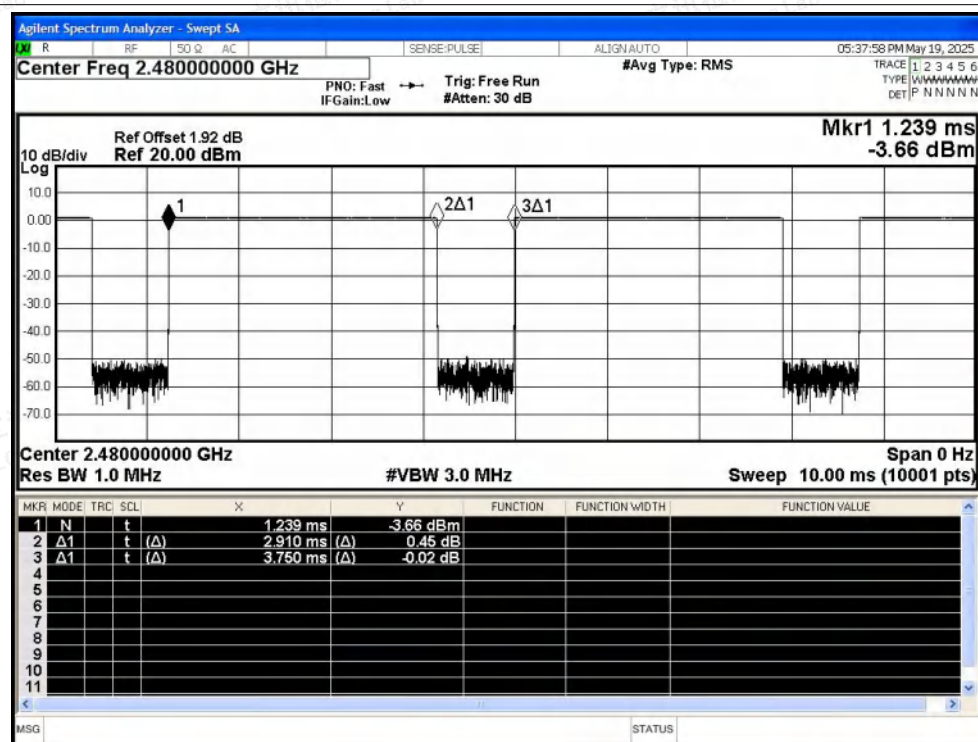


Duty Cycle NVNT 1-DH5 2441MHz Ant1

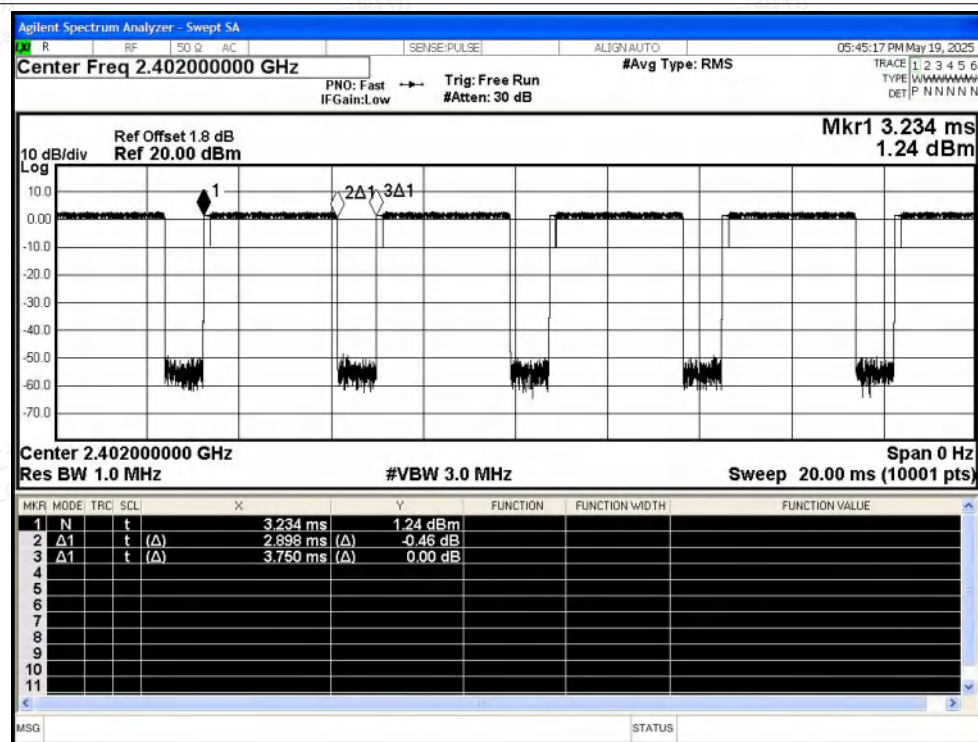




Duty Cycle NVNT 1-DH5 2480MHz Ant1

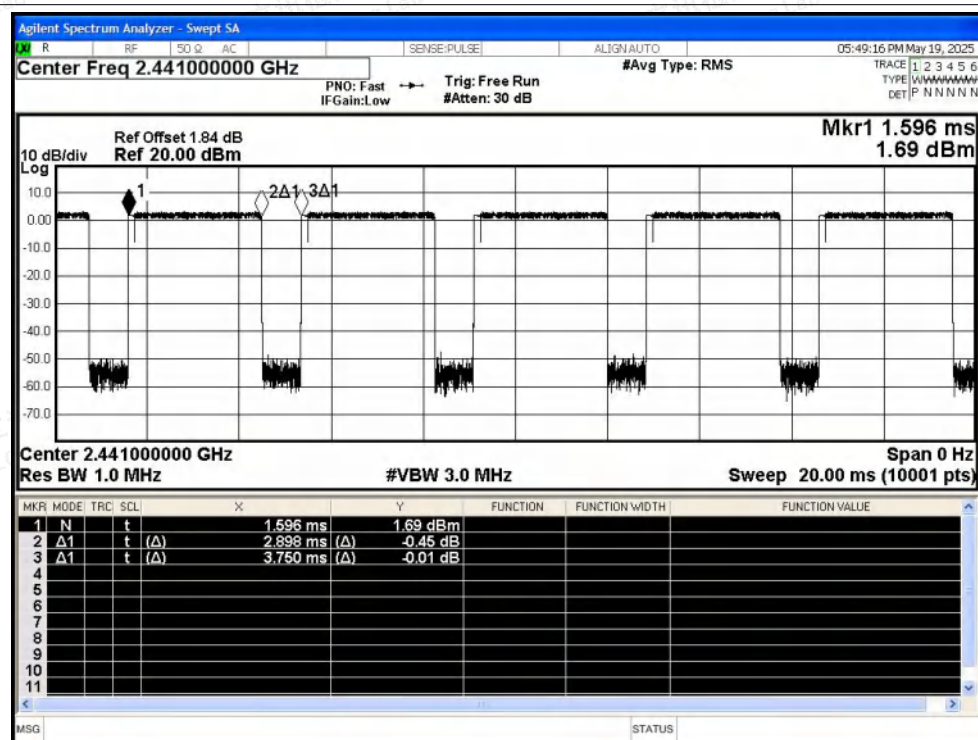


Duty Cycle NVNT 2-DH5 2402MHz Ant1

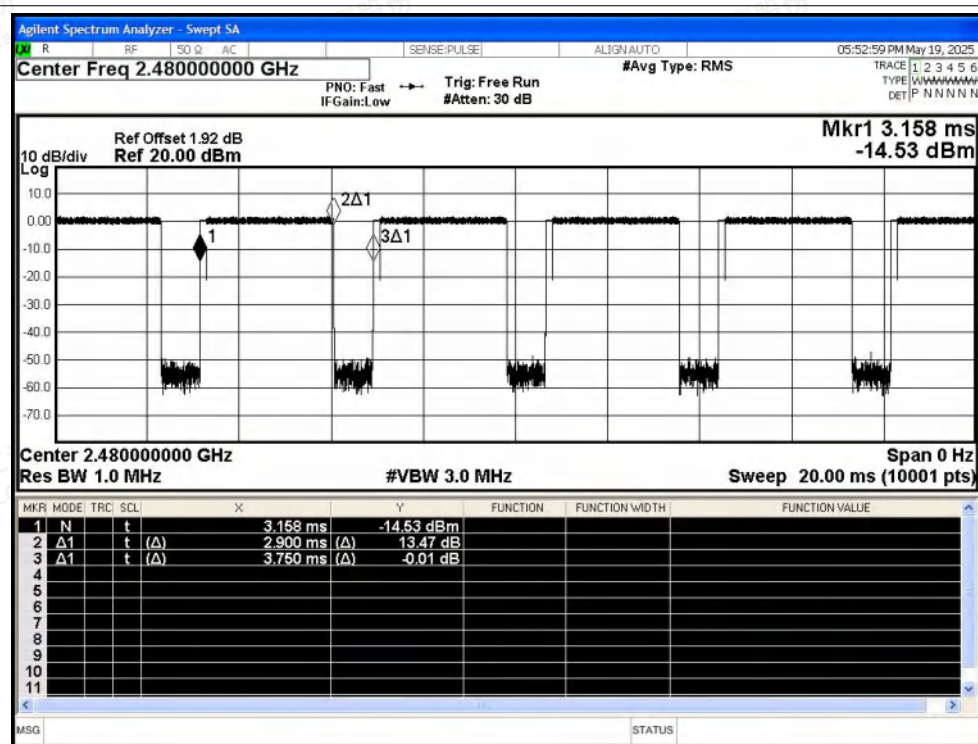




Duty Cycle NVNT 2-DH5 2441MHz Ant1

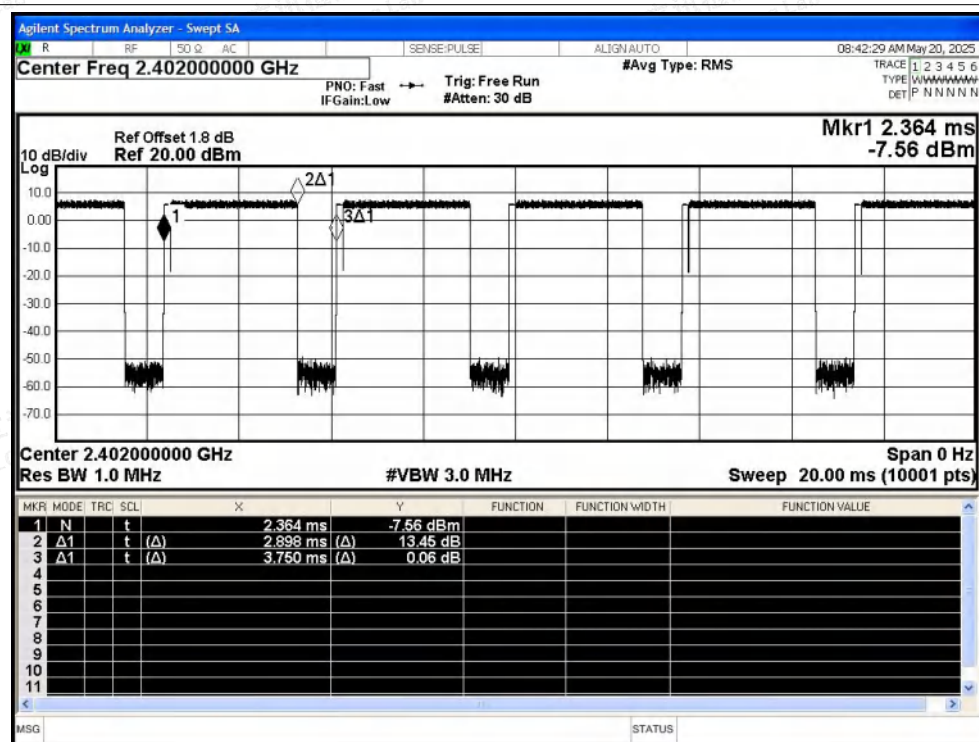


Duty Cycle NVNT 2-DH5 2480MHz Ant1

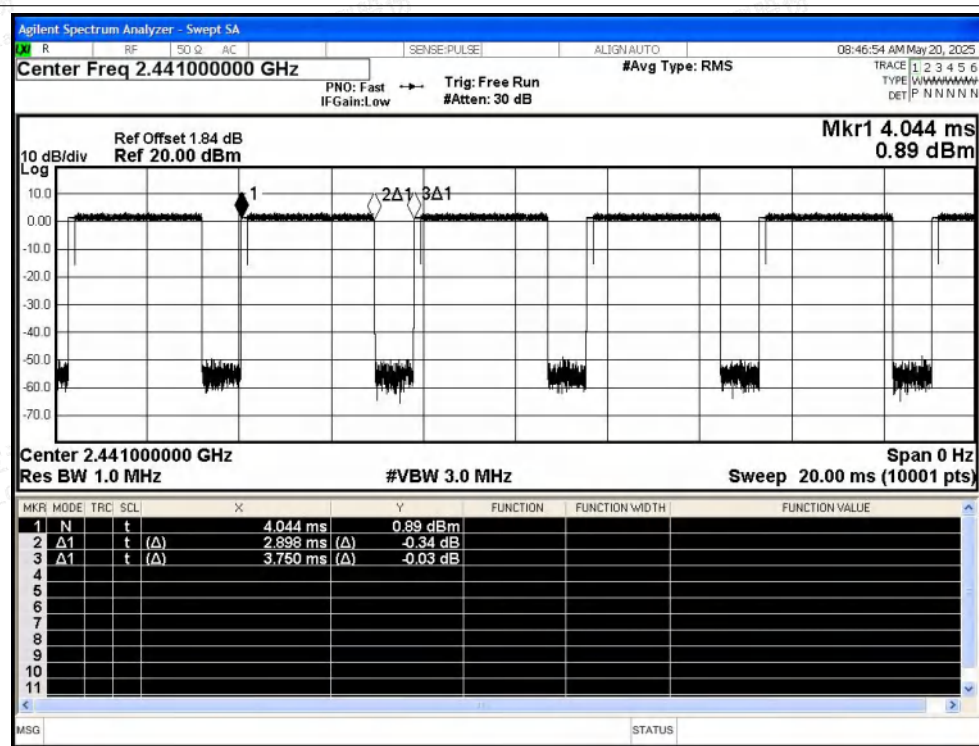


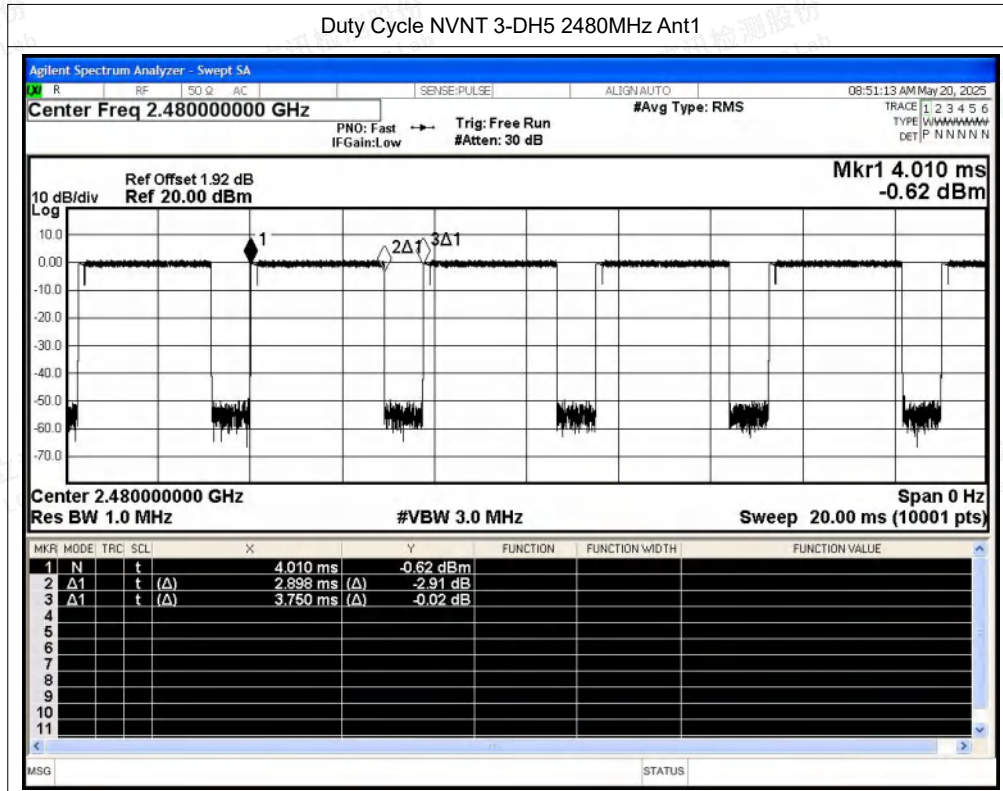


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1







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	-51.54	2	-	45.72	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.22	2	1.1	39.14	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2368.752	-47.77	2	-	49.49	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2387.088	-57.65	2	1.1	40.71	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.12	2	-	47.14	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-59.08	2	1.1	39.28	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.84	2	-	47.42	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.85	2	1.1	40.51	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.256	-46.67	2	-	50.59	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2496.088	-57.23	2	1.1	41.13	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.93	2	-	47.33	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.42	2	1.1	39.94	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.09	2	-	46.17	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.98	2	1.12	39.4	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2334	-47.63	2	-	49.63	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2358.672	-57.83	2	1.12	40.55	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.7	2	-	46.56	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.34	2	1.12	40.04	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-45.98	2	-	51.28	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-56.45	2	1.12	41.93	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.6	-44.66	2	-	52.6	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-56.45	2	1.12	41.93	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.41	2	-	45.85	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.31	2	1.12	40.07	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.85	2	-	46.41	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-59.12	2	1.12	39.26	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2354.928	-48.13	2	-	49.13	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2375.568	-57.85	2	1.12	40.53	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.77	2	-	47.49	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.97	2	1.12	39.41	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-42.79	2	-	54.47	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-56.11	2	1.12	42.27	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-42.79	2	-	54.47	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.752	-56.06	2	1.12	42.32	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-51.46	2	-	45.8	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.29	2	1.12	40.09	Average	54	Pass



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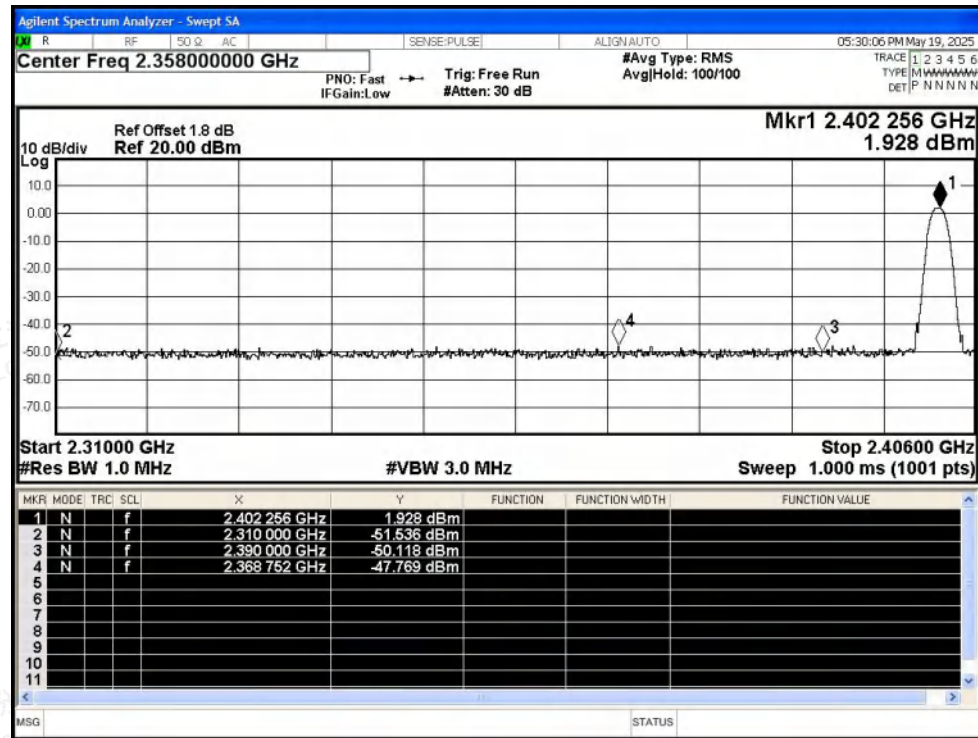
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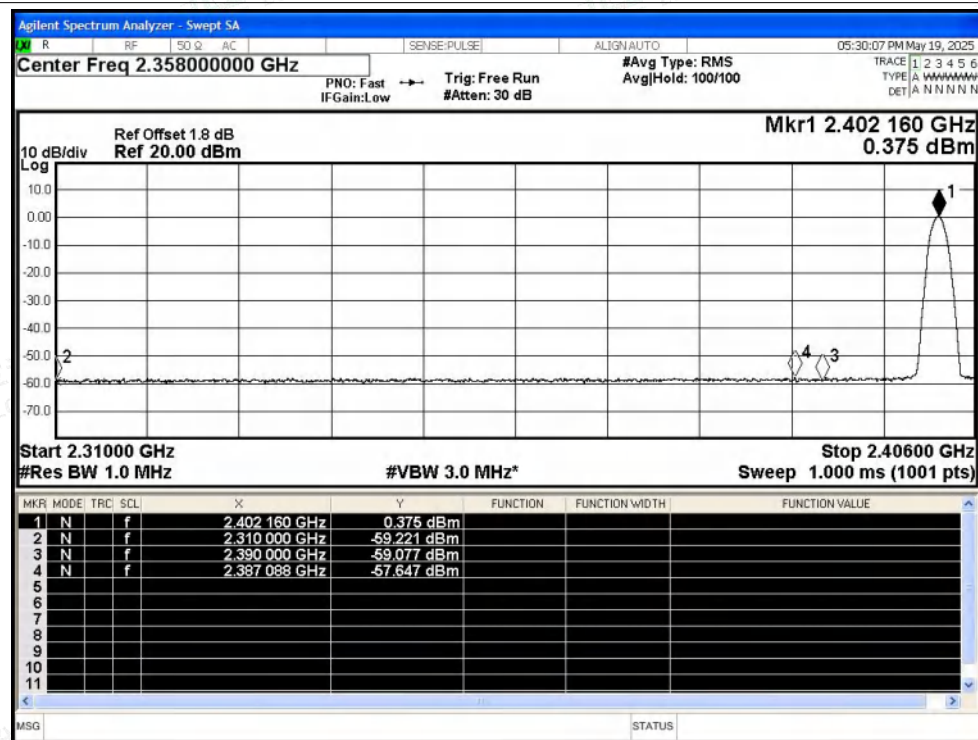


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

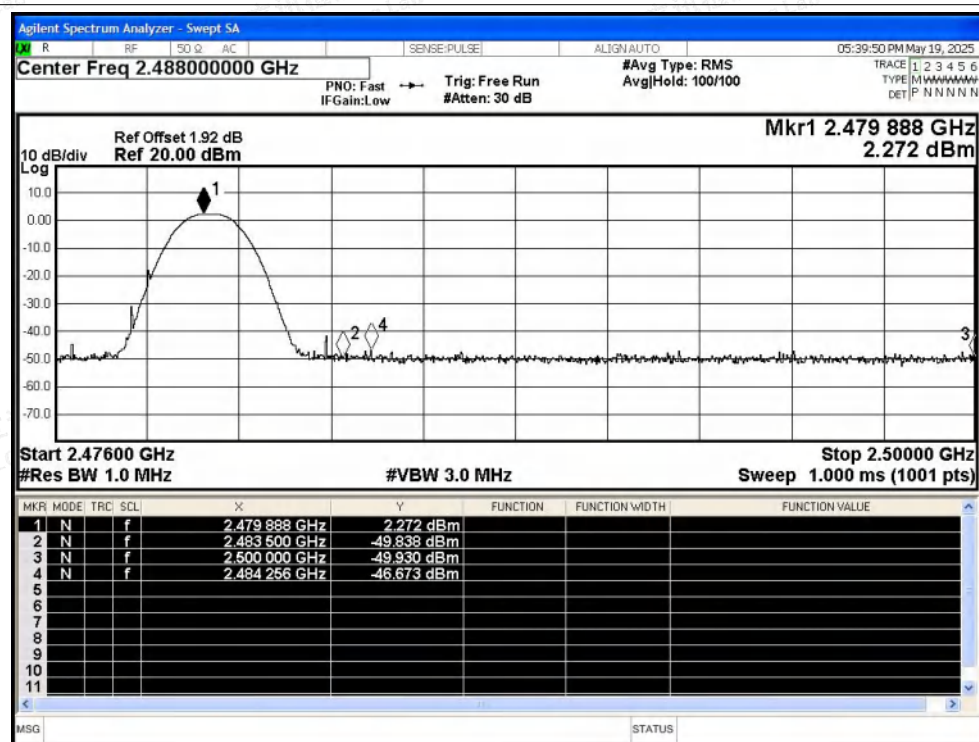
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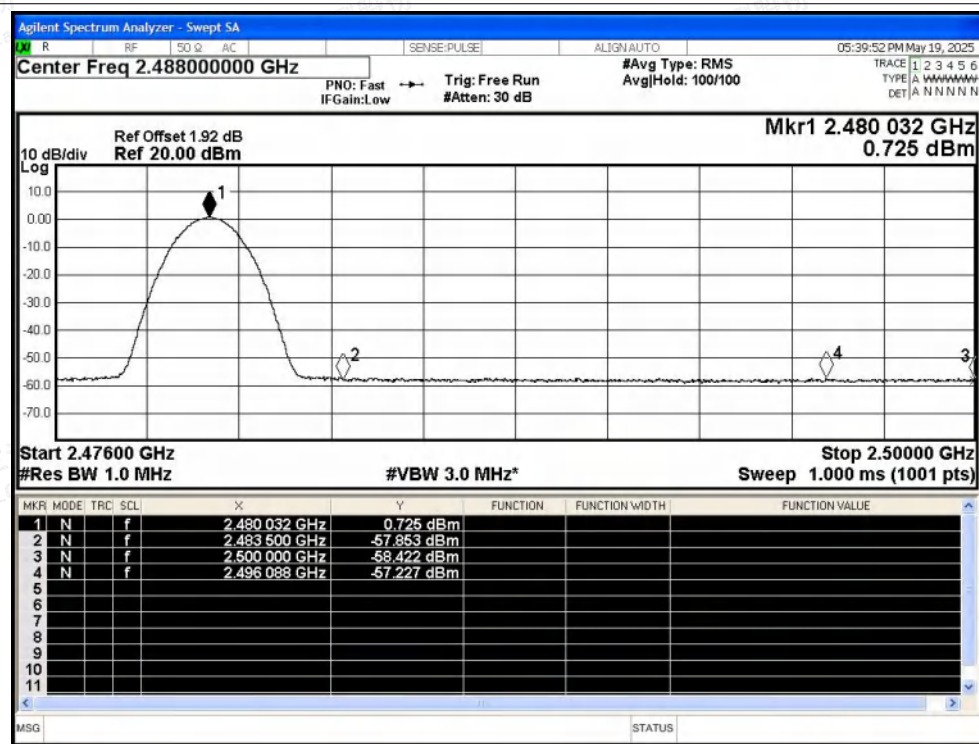
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

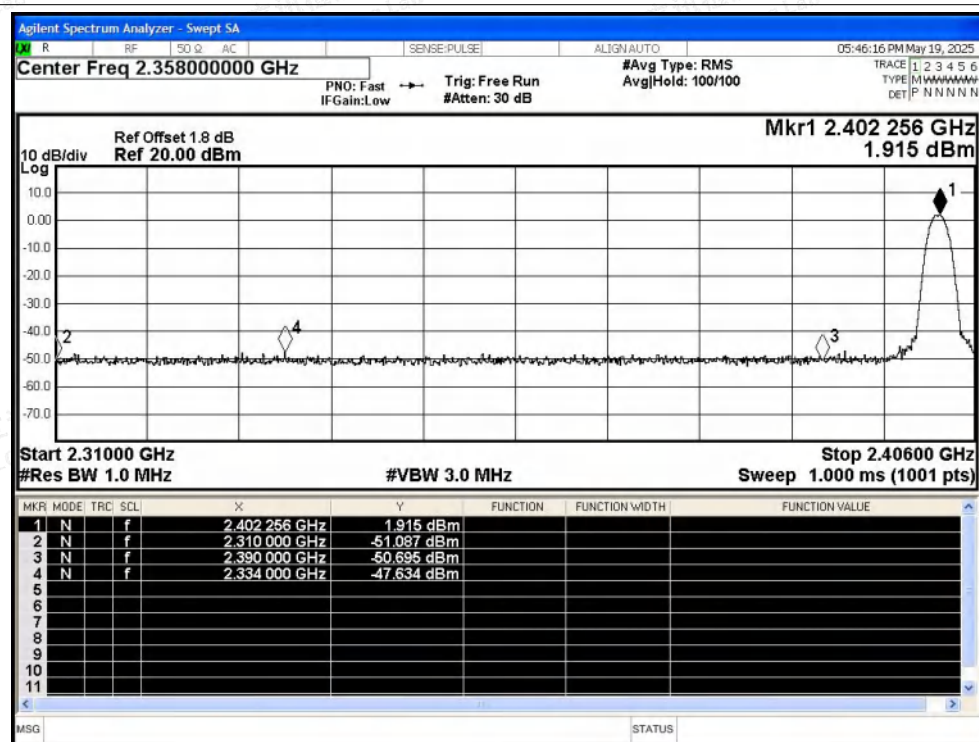
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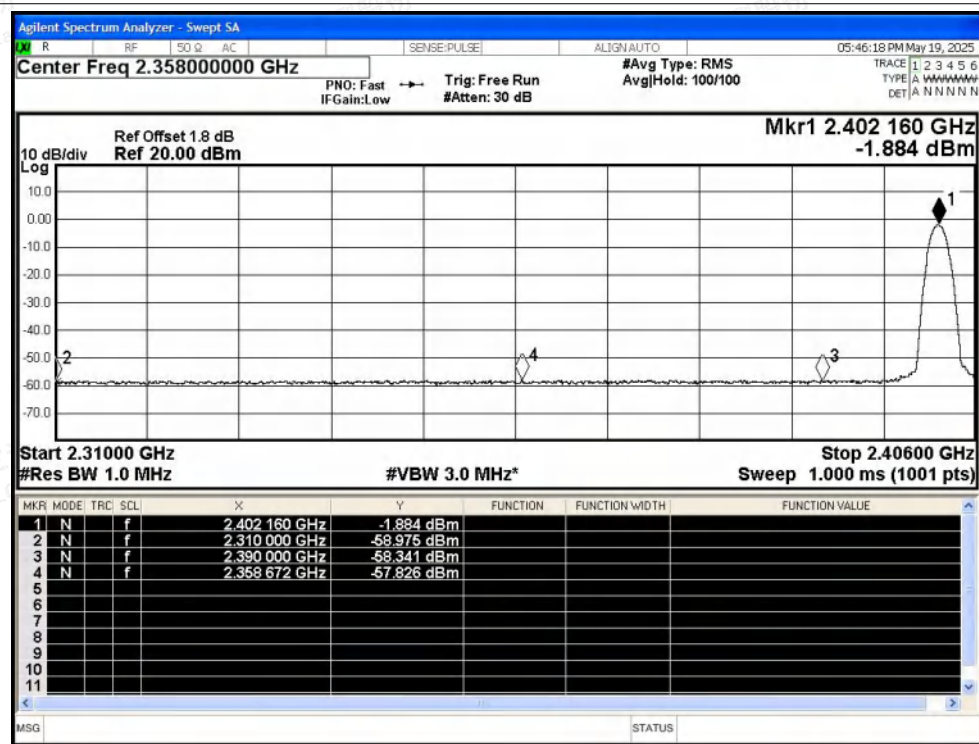
Scan code to check authenticity



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.

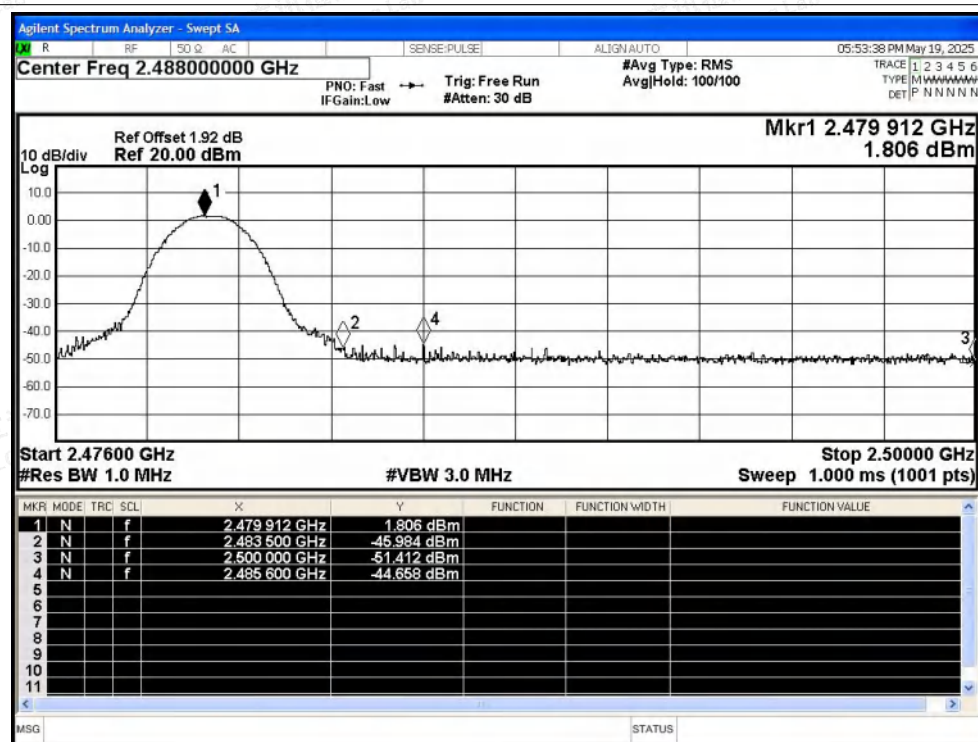
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

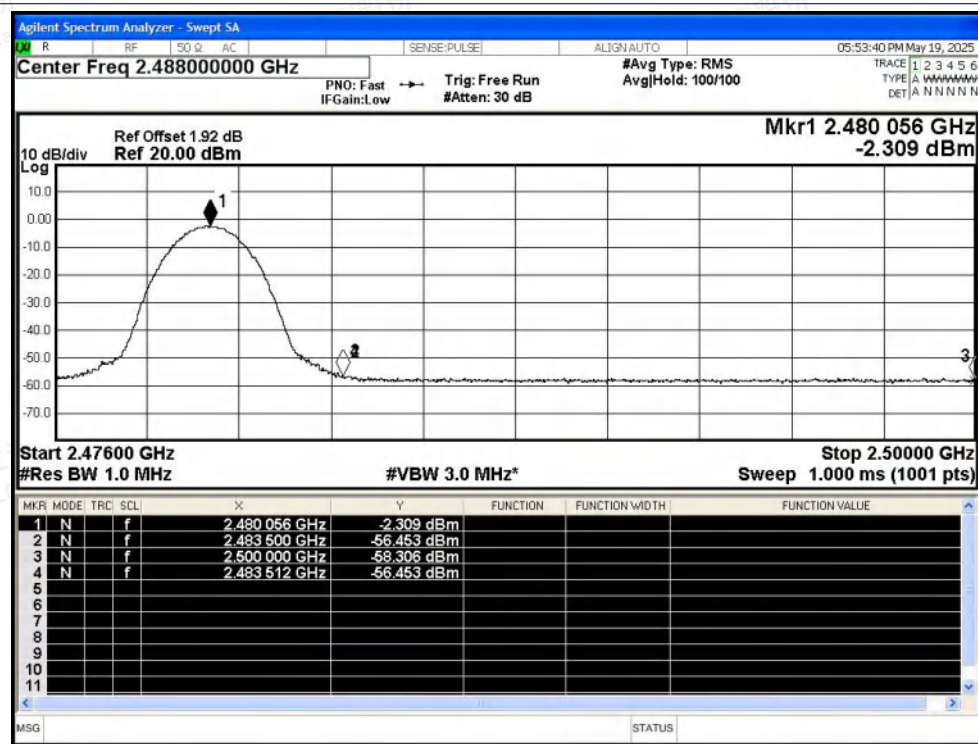
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

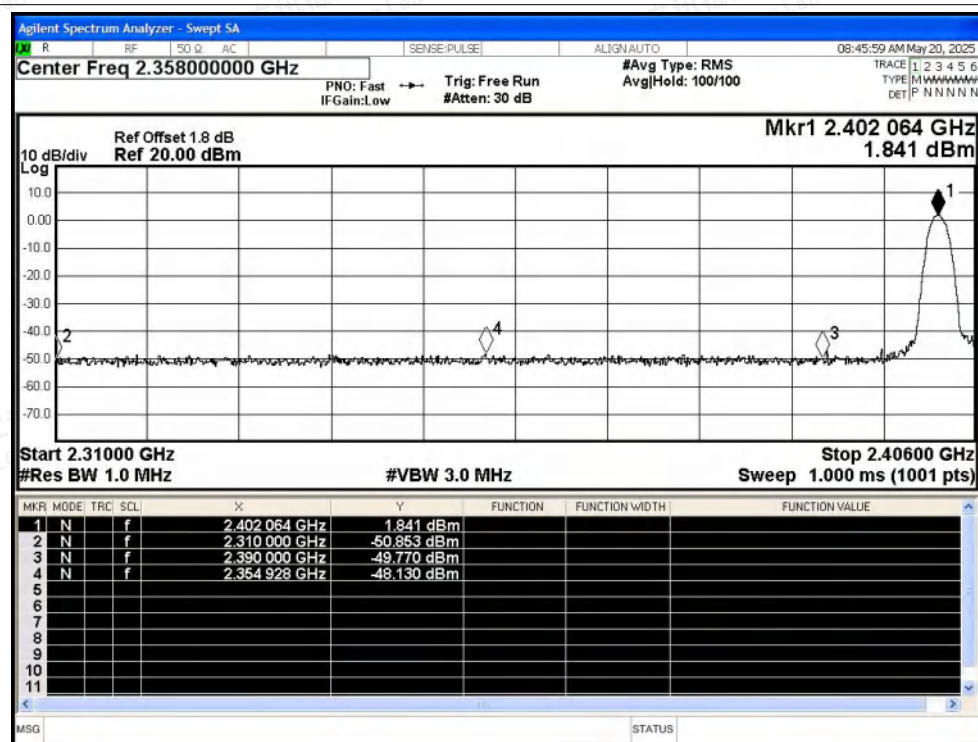
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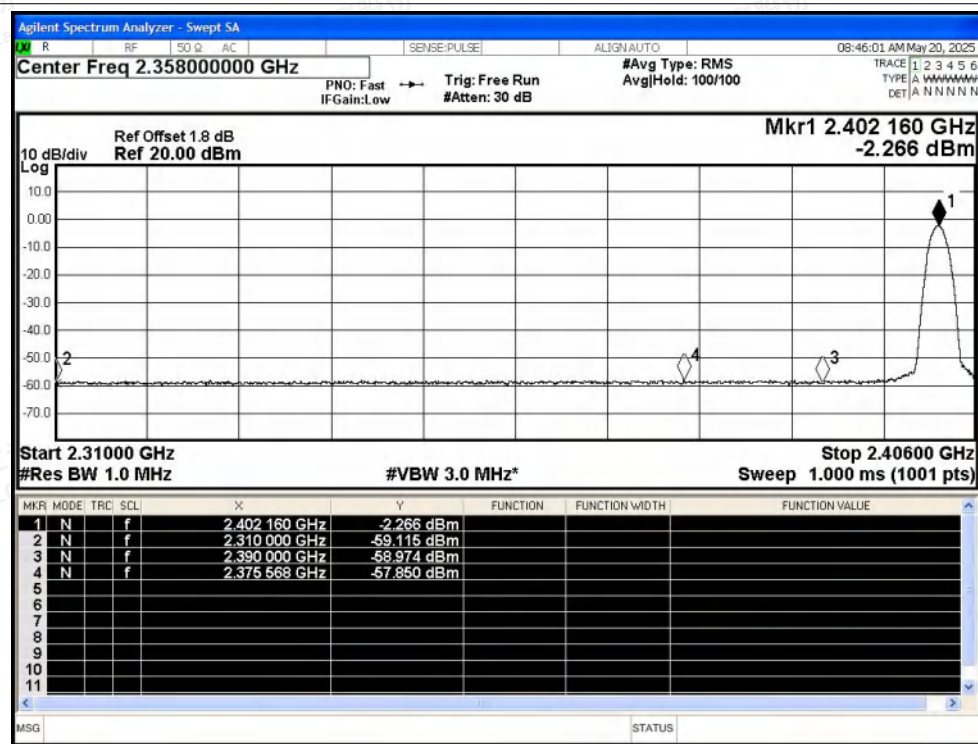
Scan code to check authenticity



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



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



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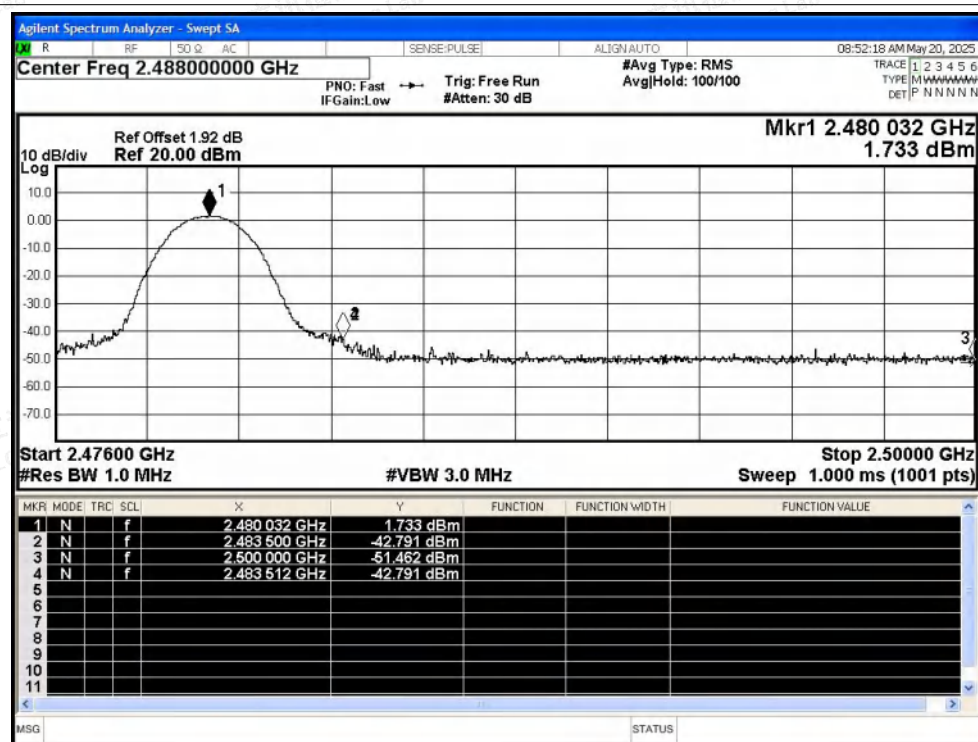
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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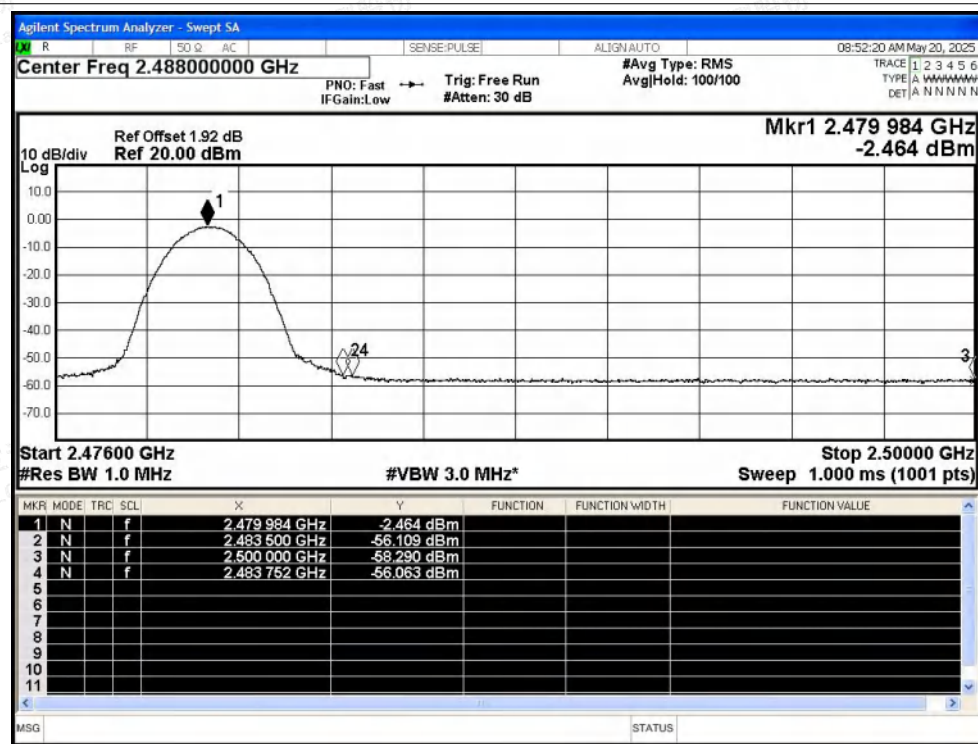
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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