



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Hyundai Notebook

Test Model: HT14CB10502BK

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Eason Zhou
Supervised by:	Nick Peng



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A.1 -20dB Bandwidth

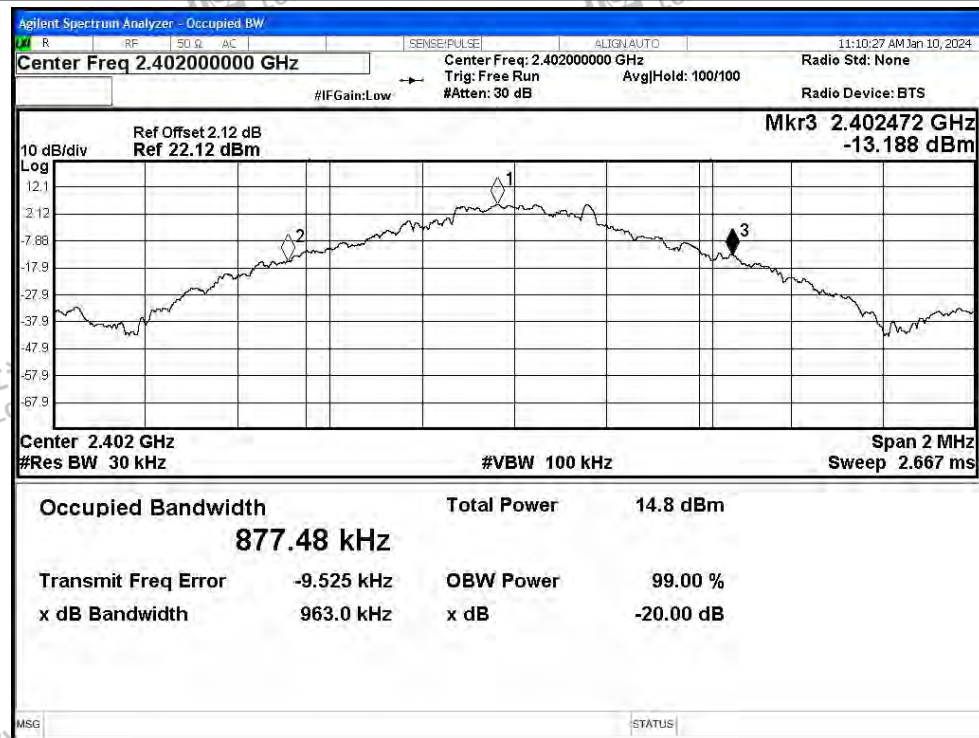
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.963	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.961	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.955	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.524	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.521	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.517	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.429	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.468	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.473	N/A	Pass



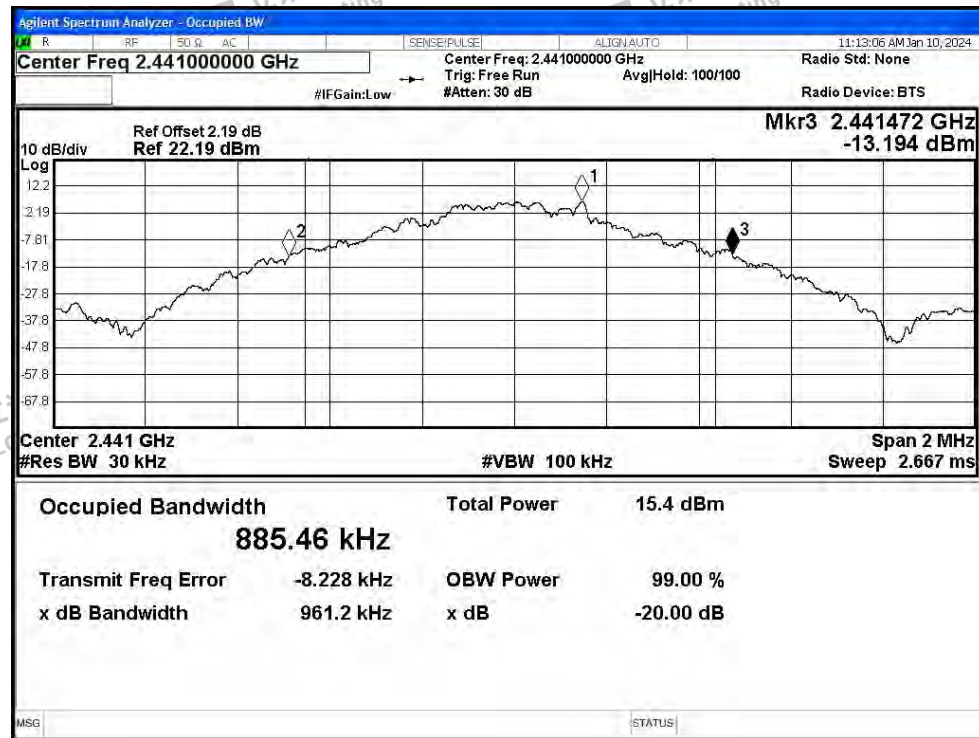


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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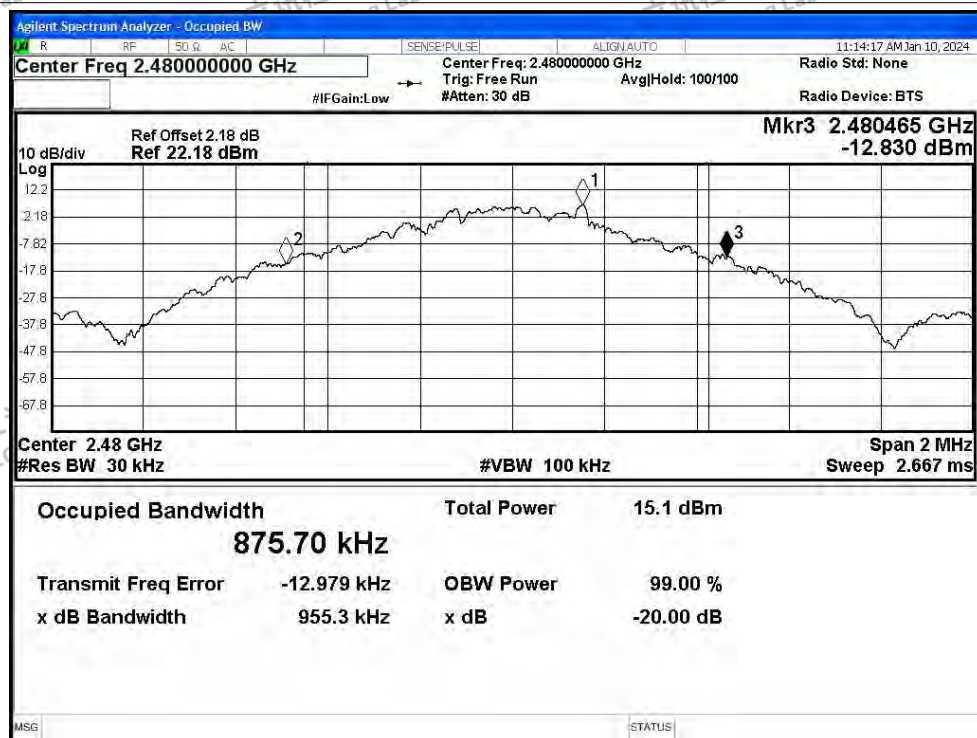
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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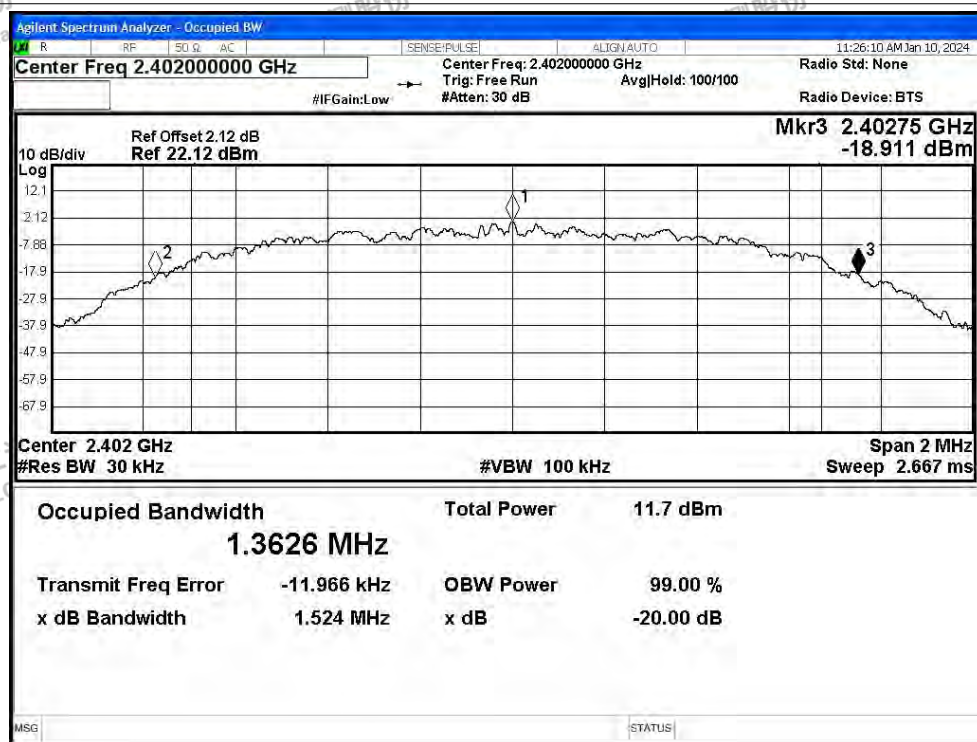
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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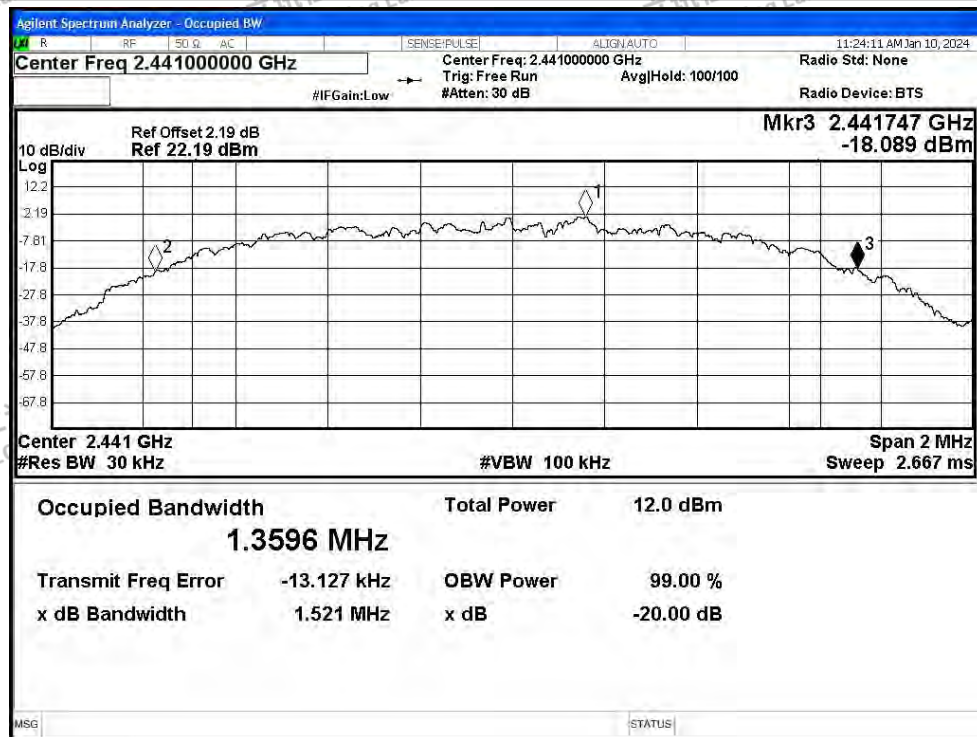
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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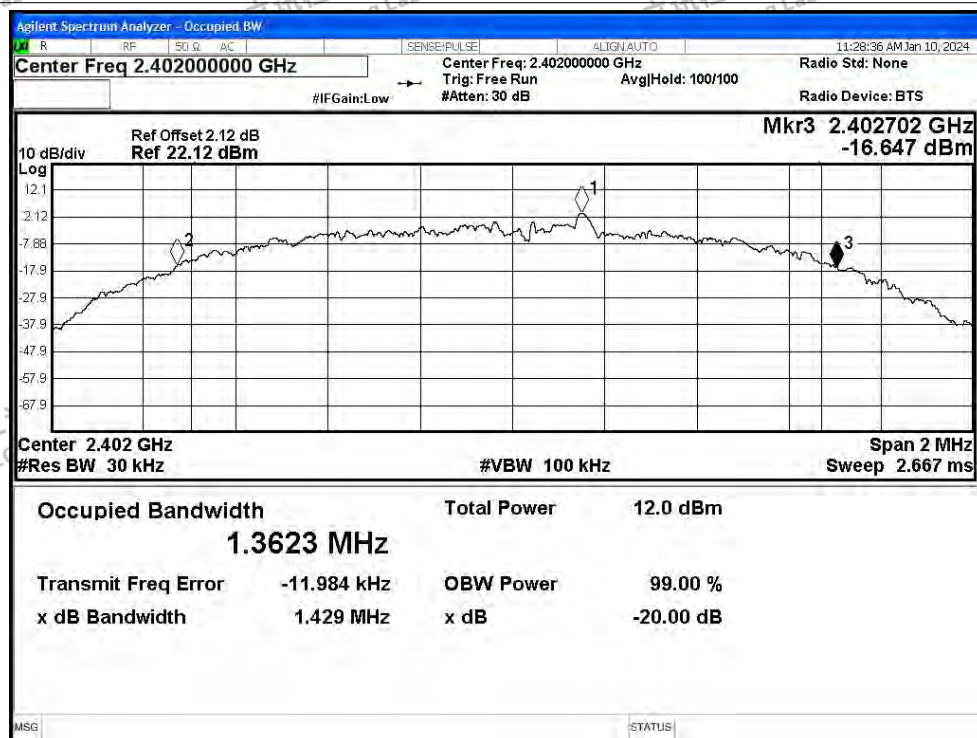
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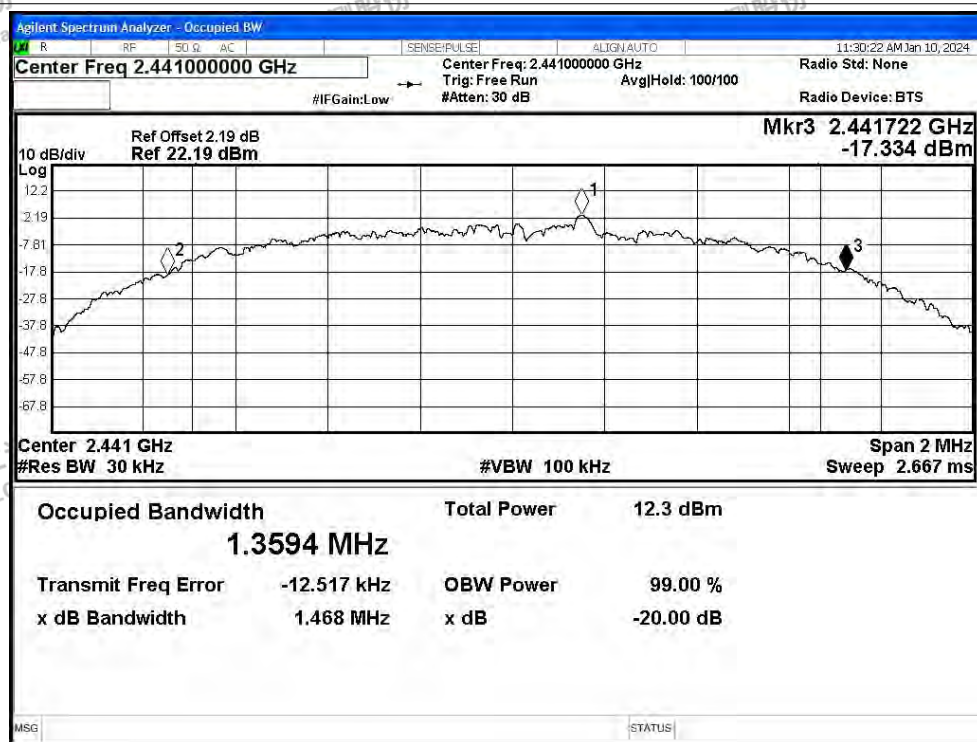
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



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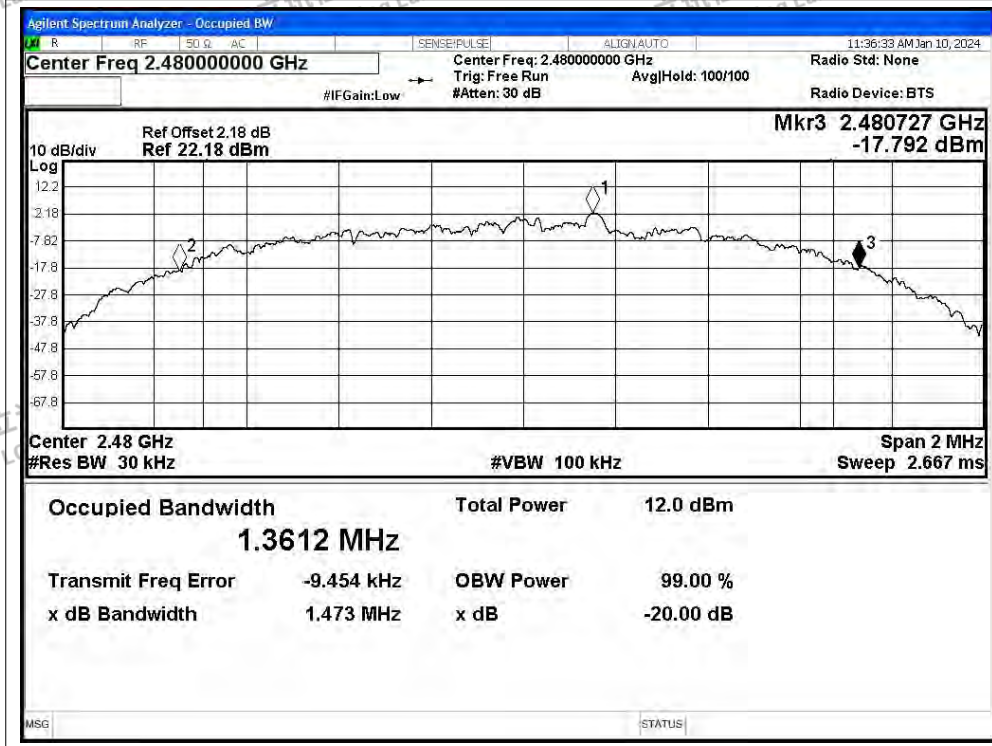
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-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

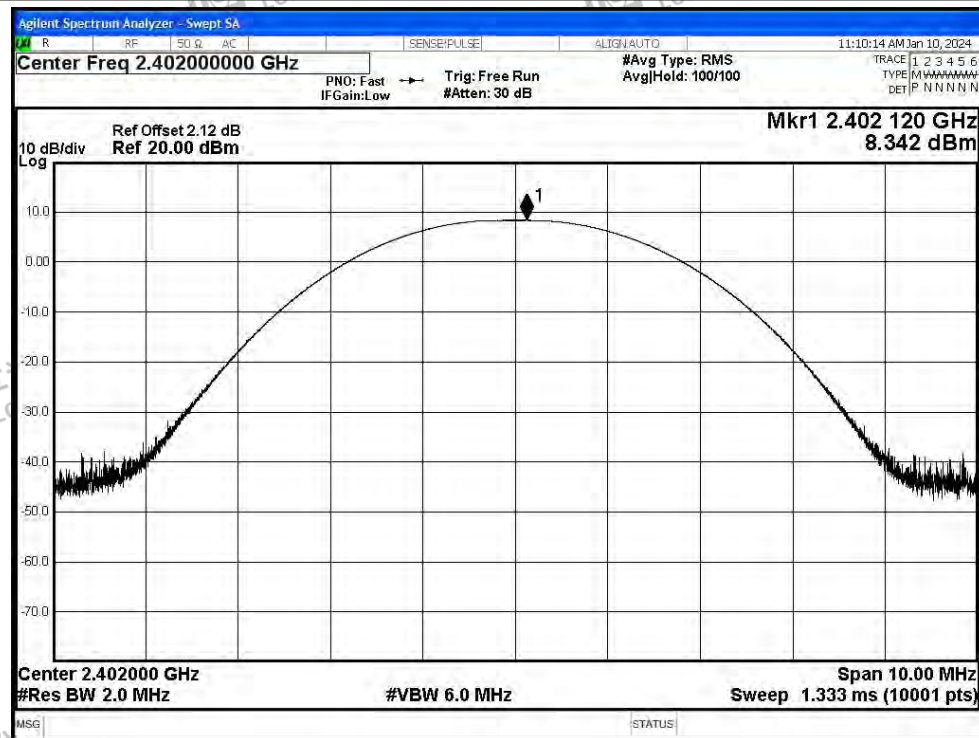
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	8.34	21	Pass
NVNT	1-DH5	2441	Ant1	8.91	21	Pass
NVNT	1-DH5	2480	Ant1	8.69	21	Pass
NVNT	2-DH5	2402	Ant1	6.69	21	Pass
NVNT	2-DH5	2441	Ant1	6.94	21	Pass
NVNT	2-DH5	2480	Ant1	6.45	21	Pass
NVNT	3-DH5	2402	Ant1	6.78	21	Pass
NVNT	3-DH5	2441	Ant1	7.07	21	Pass
NVNT	3-DH5	2480	Ant1	6.57	21	Pass



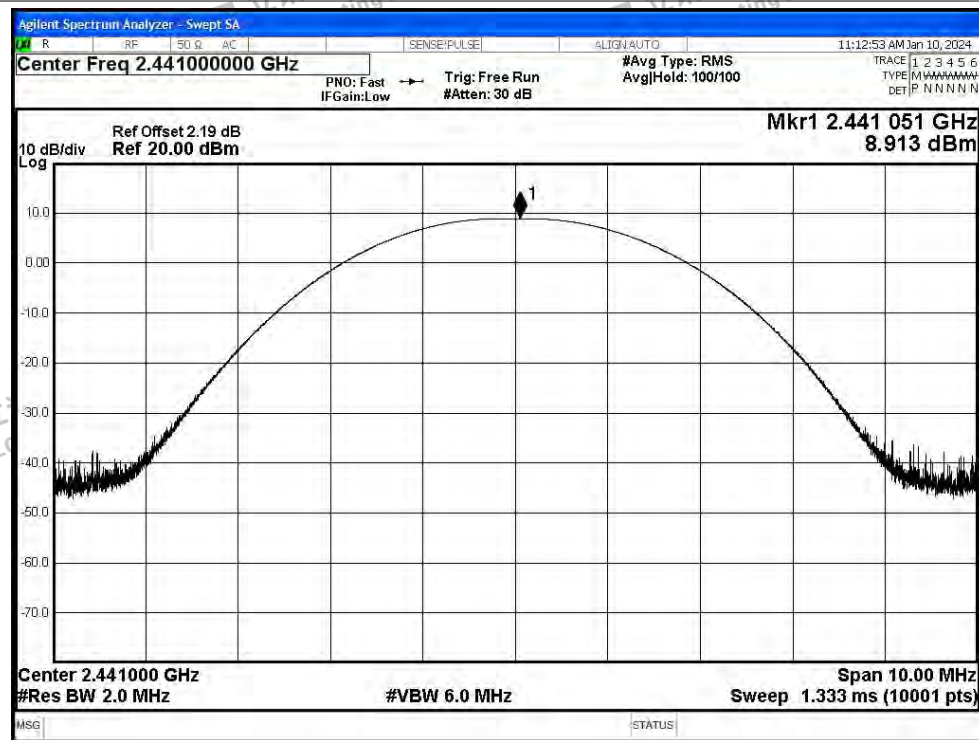


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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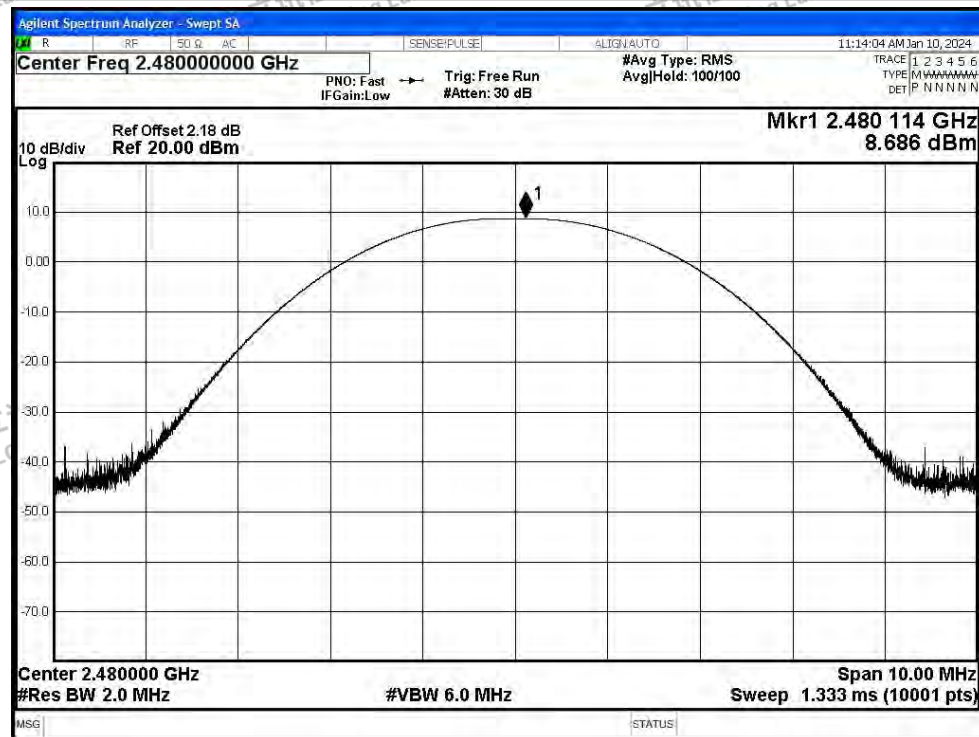
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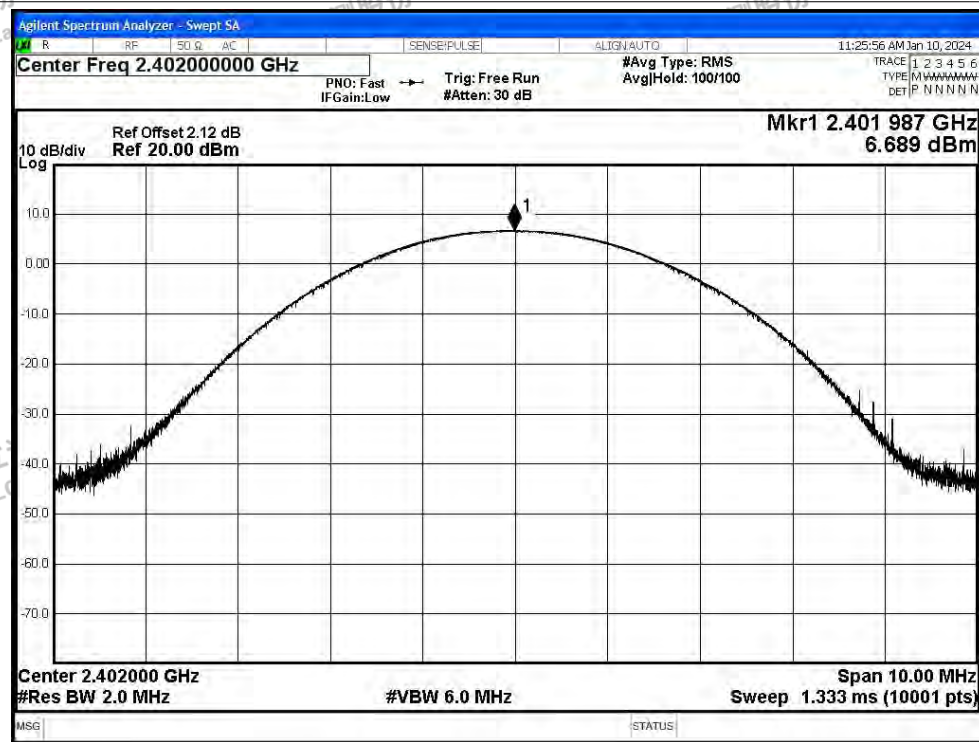
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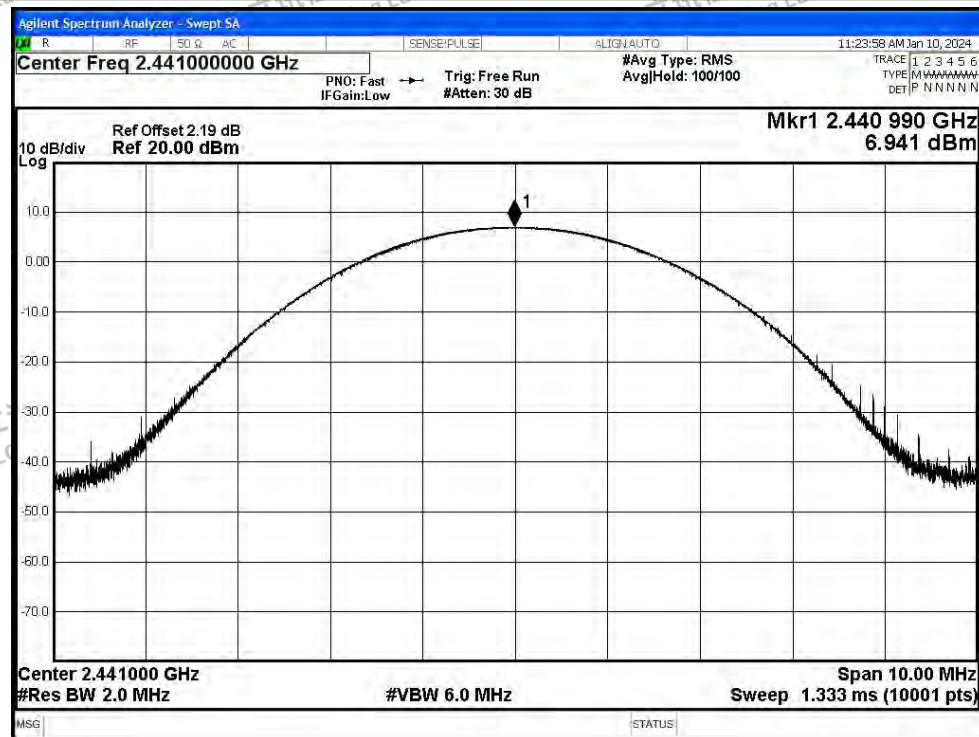


Power NVNT 2-DH5 2402MHz Ant1

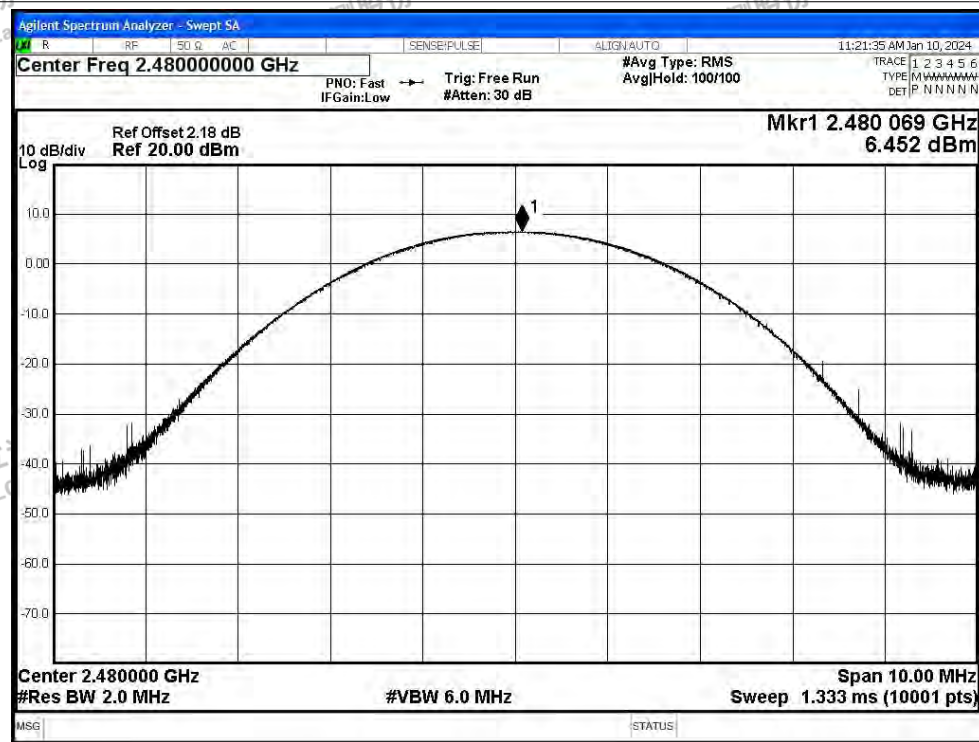




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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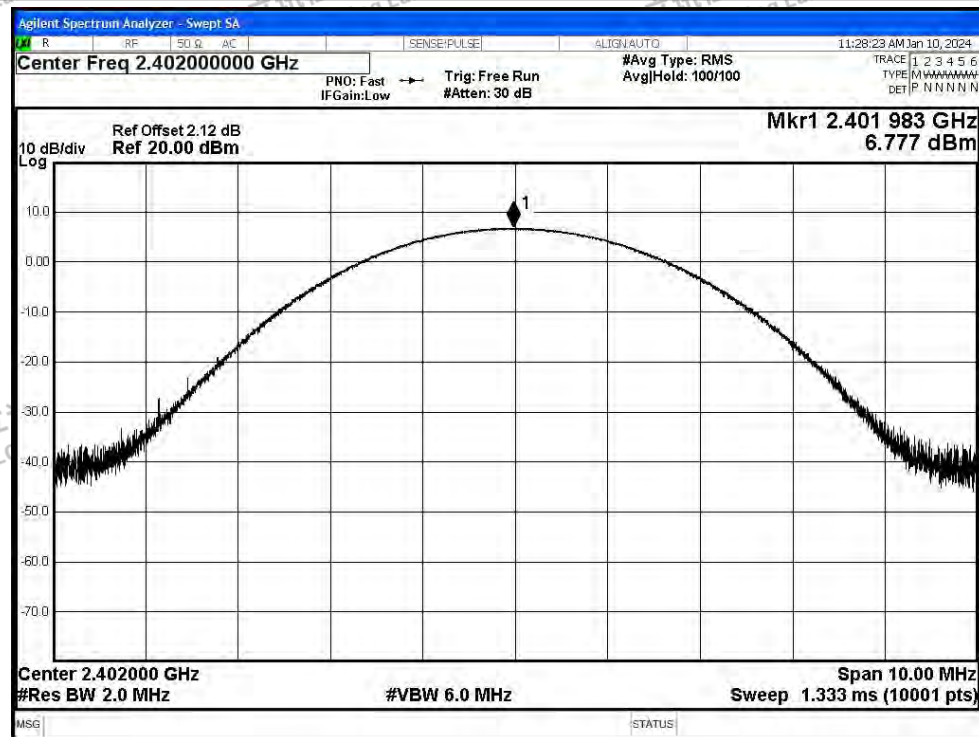
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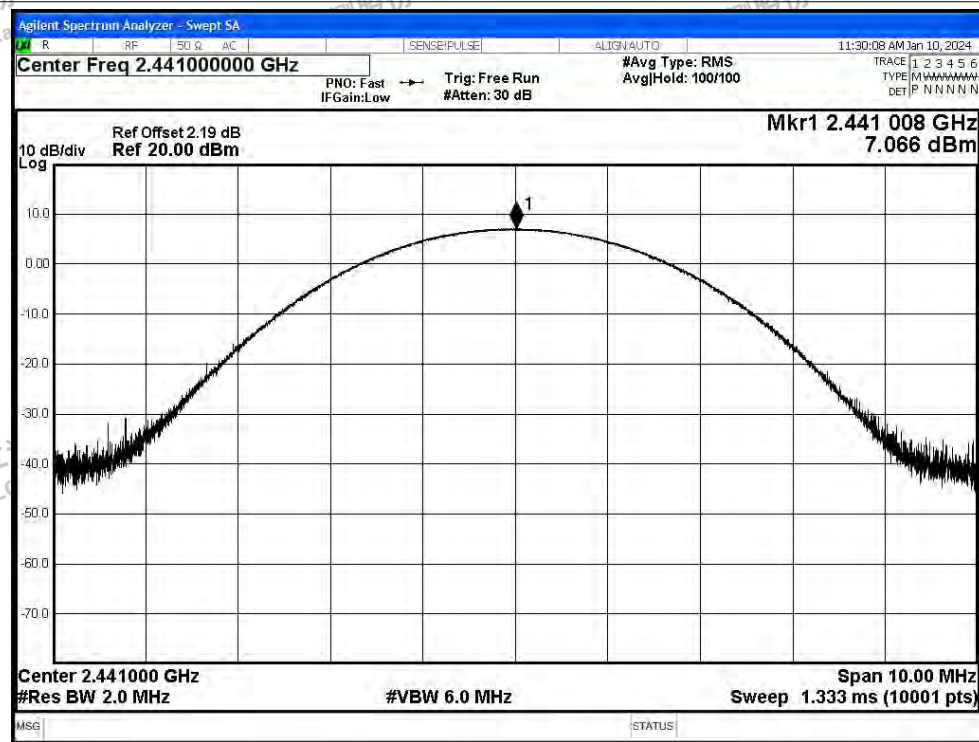
Scan code to check authenticity



Power NVNT 3-DH5 2402MHz Ant1

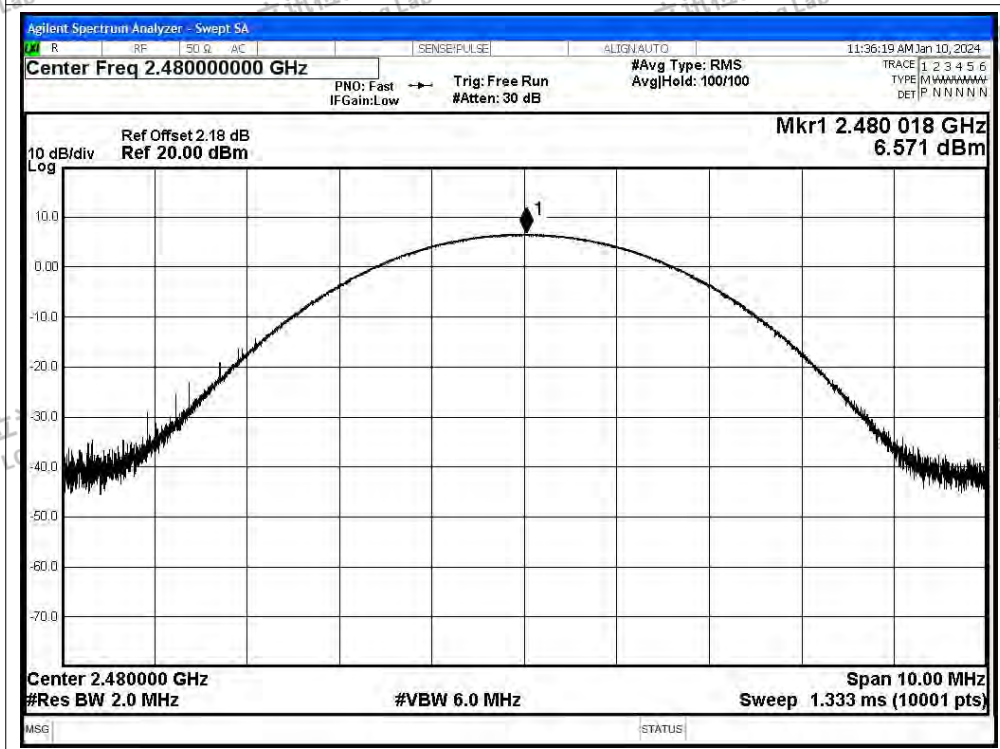


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.008	2403.146	1.138	0.642	Pass
NVNT	2-DH5	Ant1	2401.806	2403.152	1.346	1.016	Pass
NVNT	3-DH5	Ant1	2402.046	2403.162	1.116	0.982	Pass



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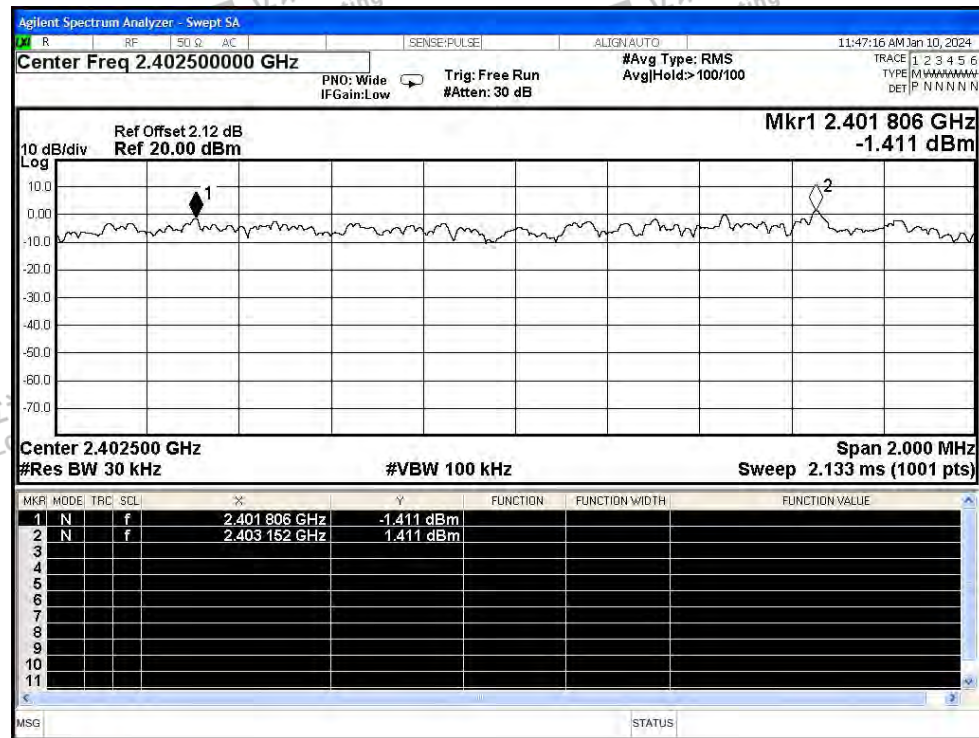


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



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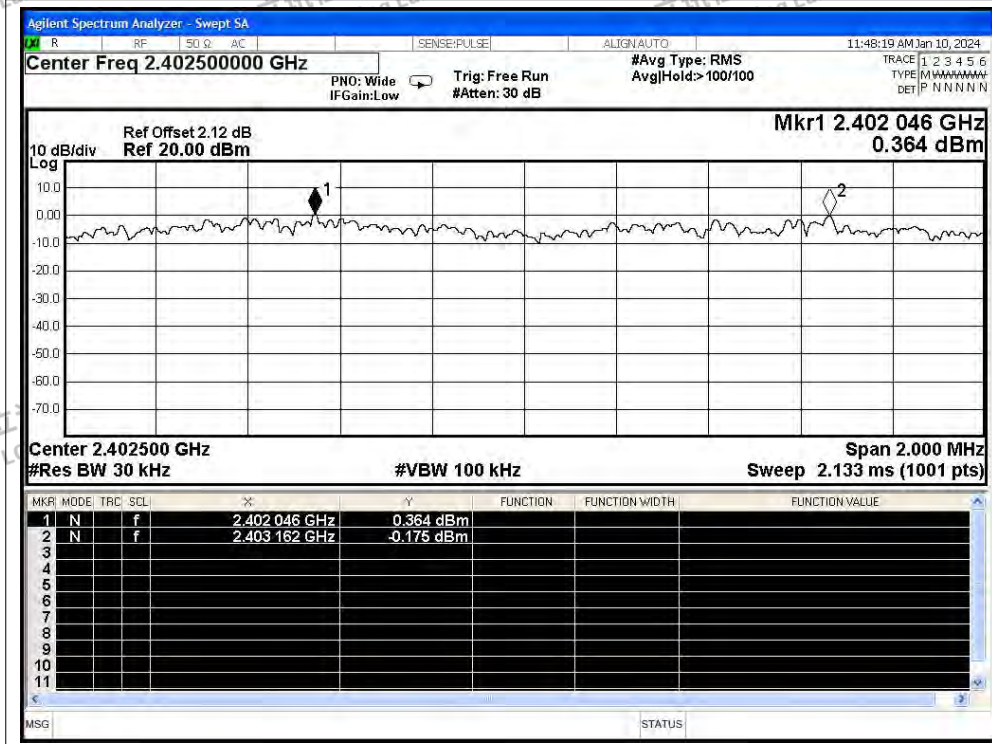
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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CFS NVNT 3-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	2.885	279.845	97	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.89	297.67	103	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.891	297.773	103	31600	400	Pass



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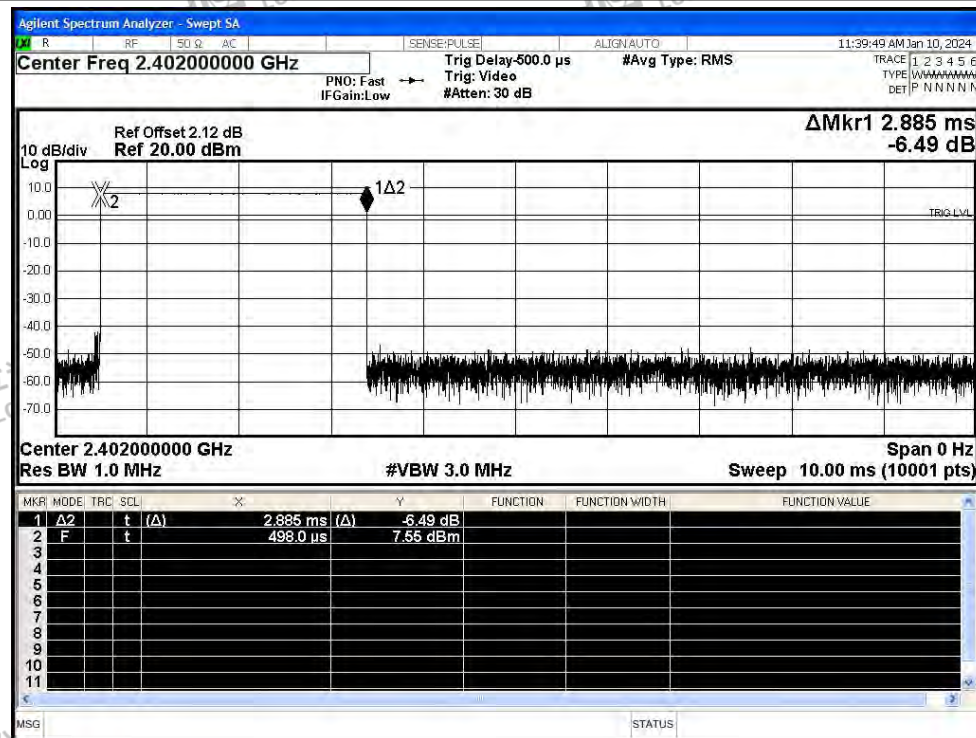
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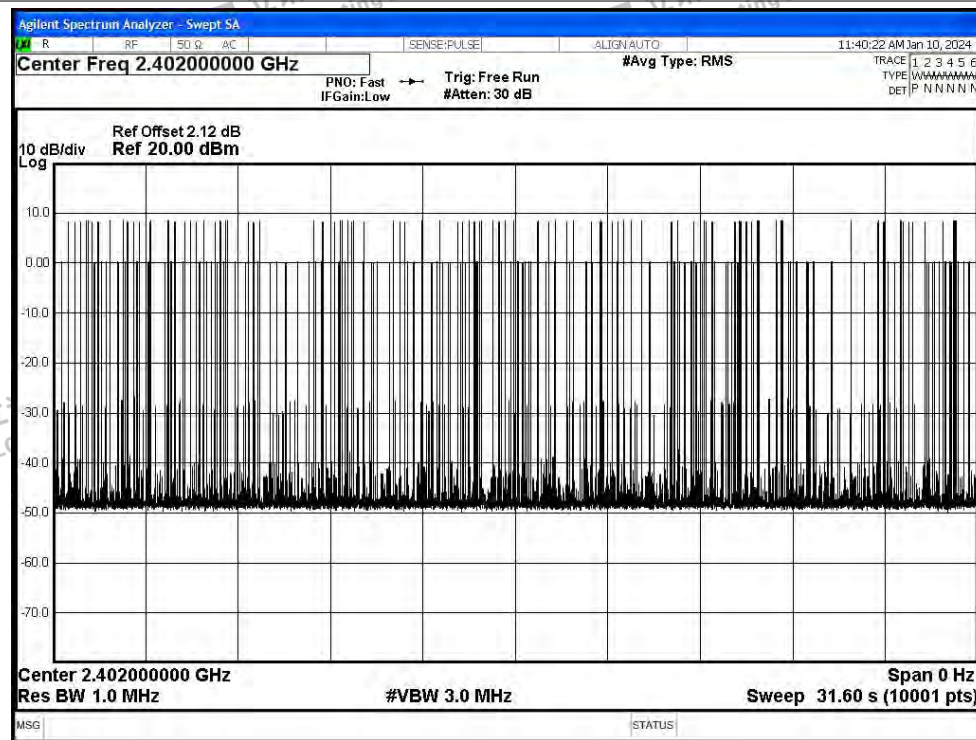


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

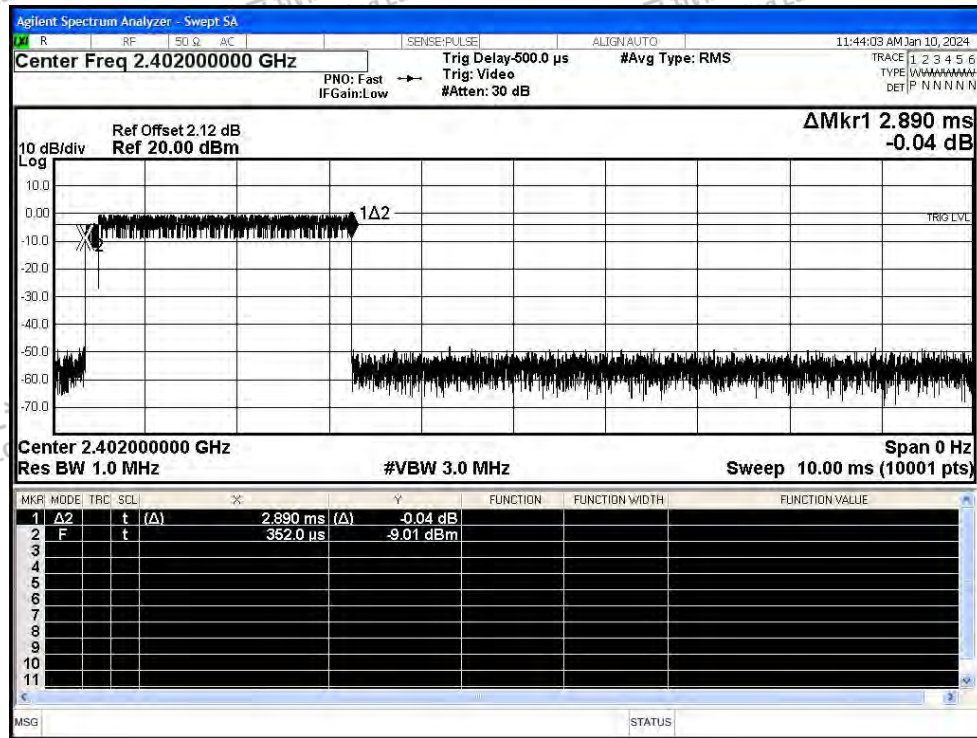


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

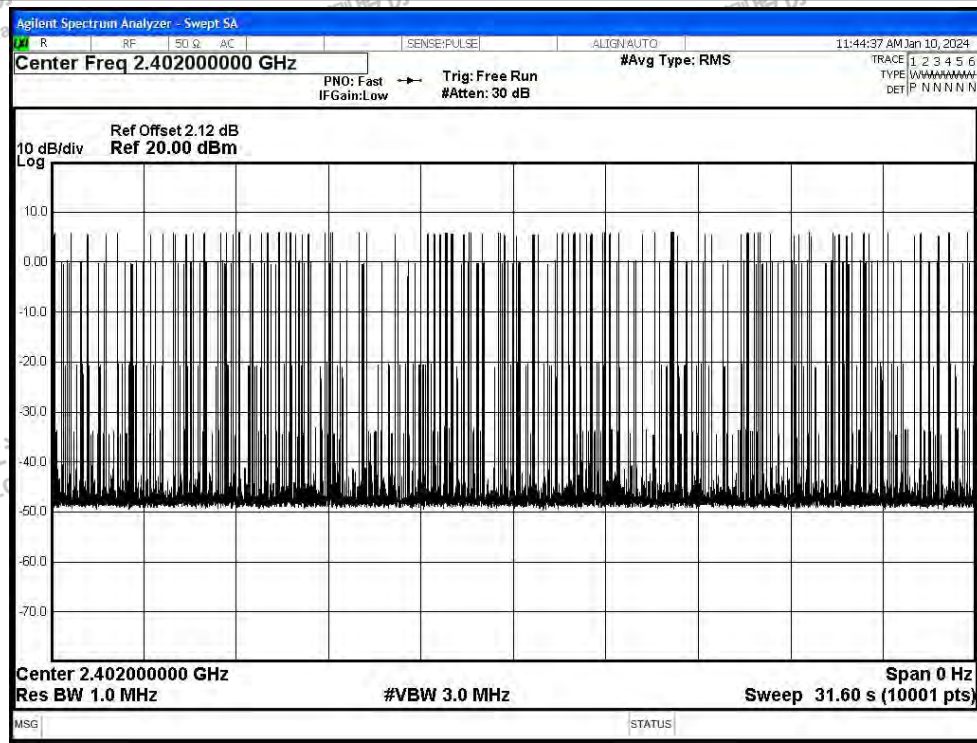




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

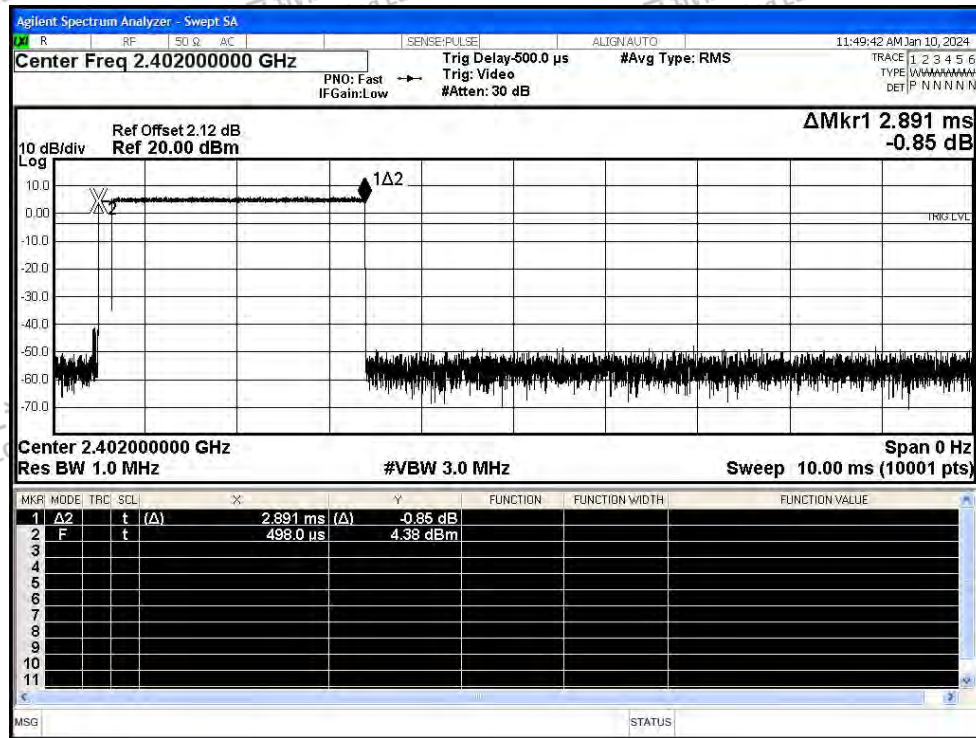
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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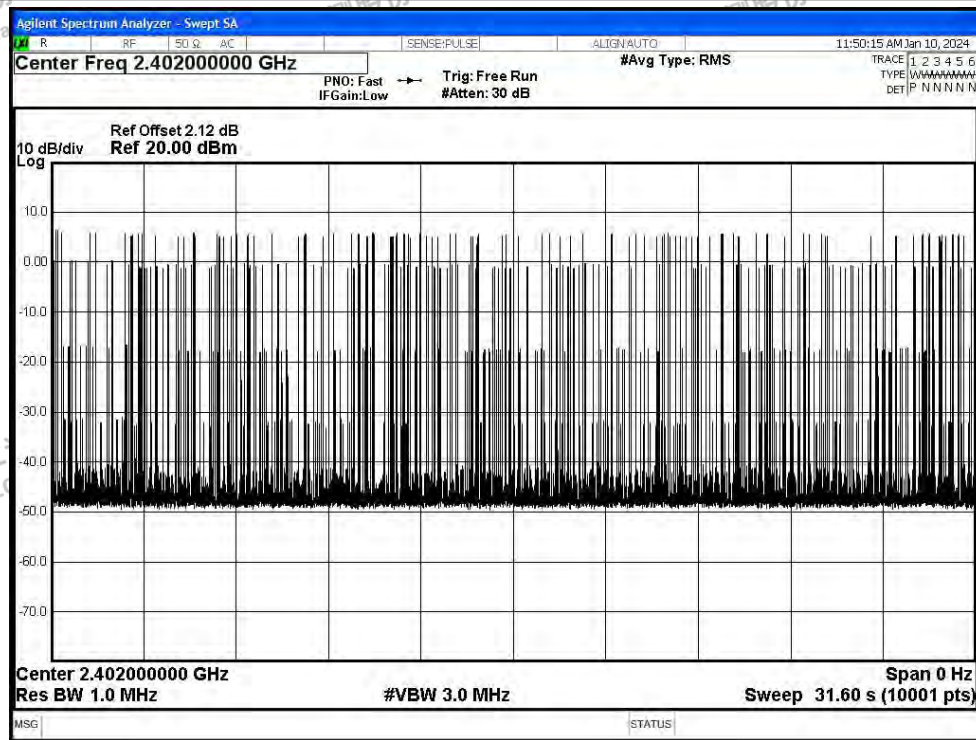
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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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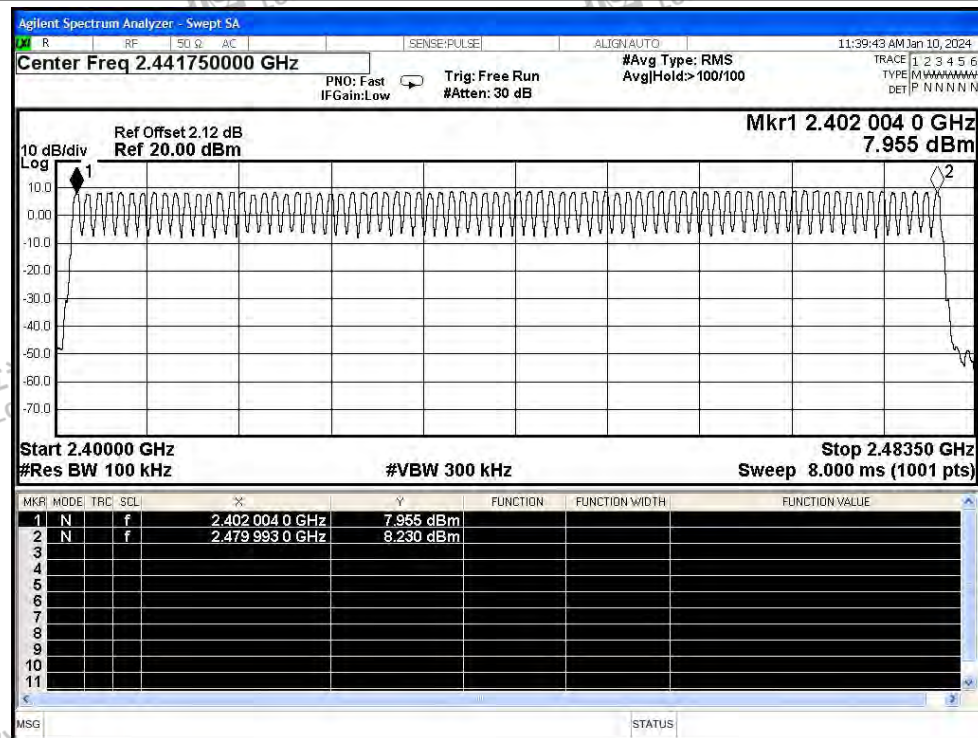
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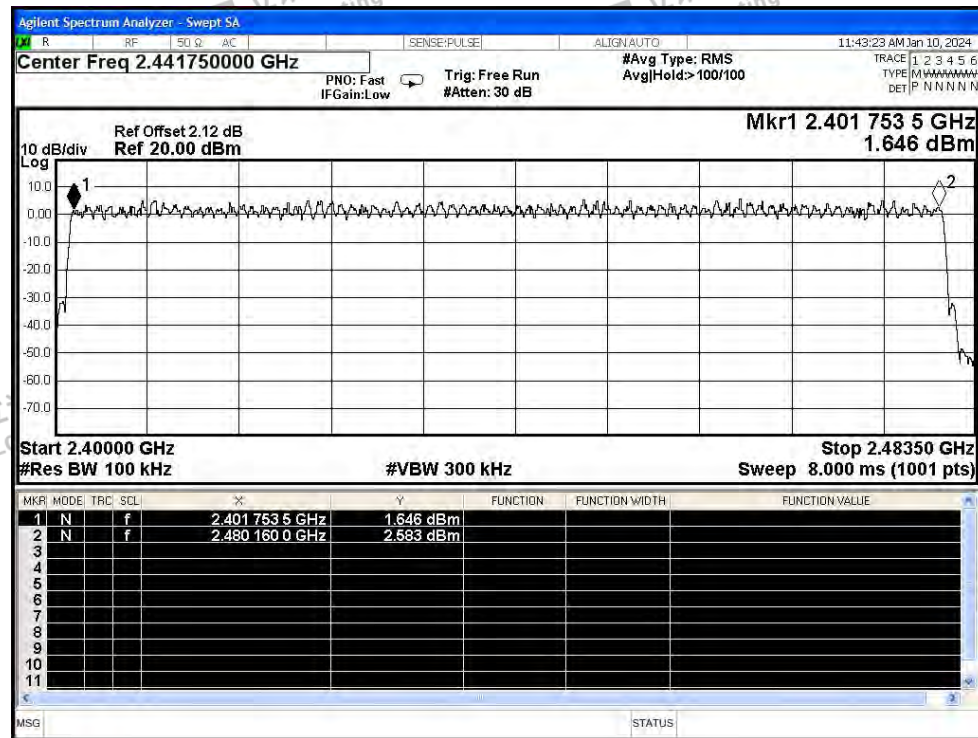


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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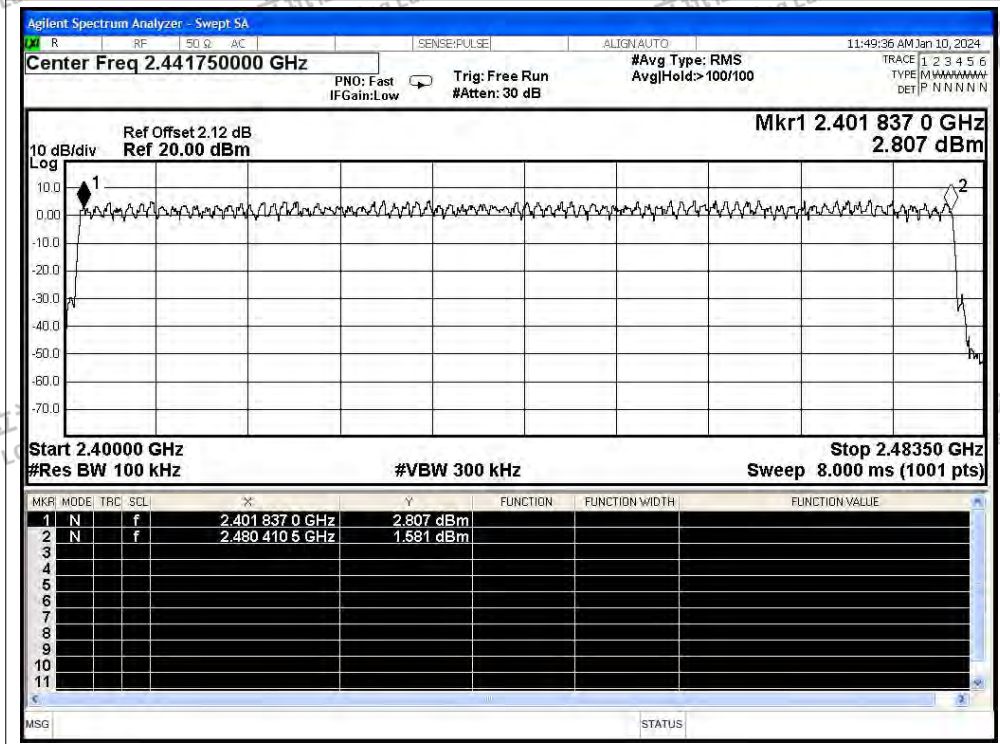
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Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.48	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-62.33	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.54	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.99	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-45.06	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.89	-20	Pass

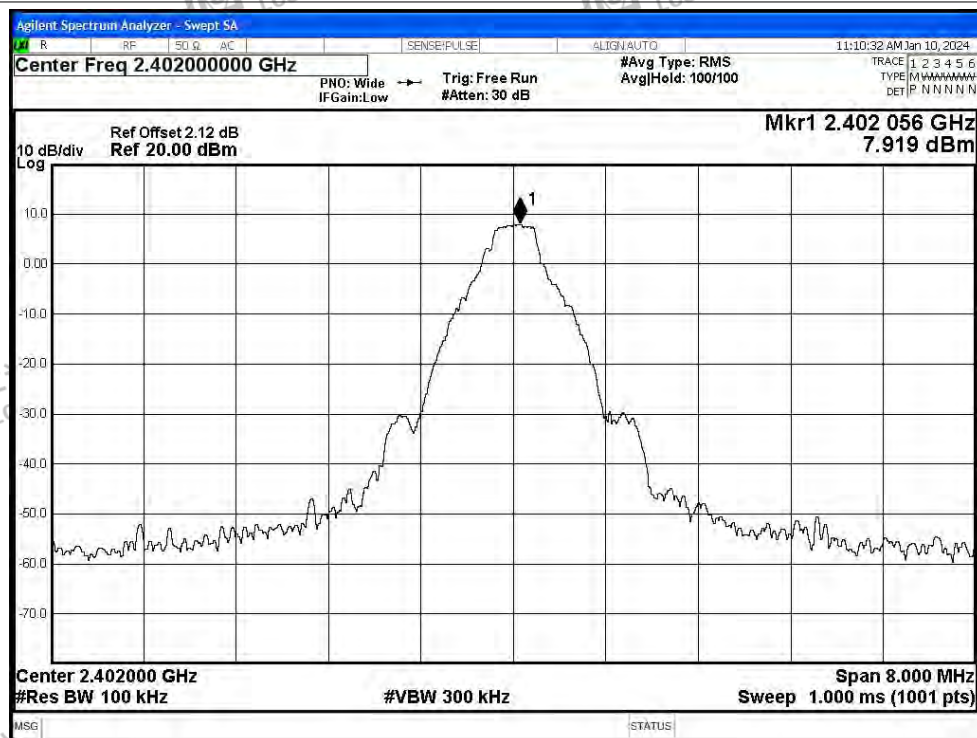


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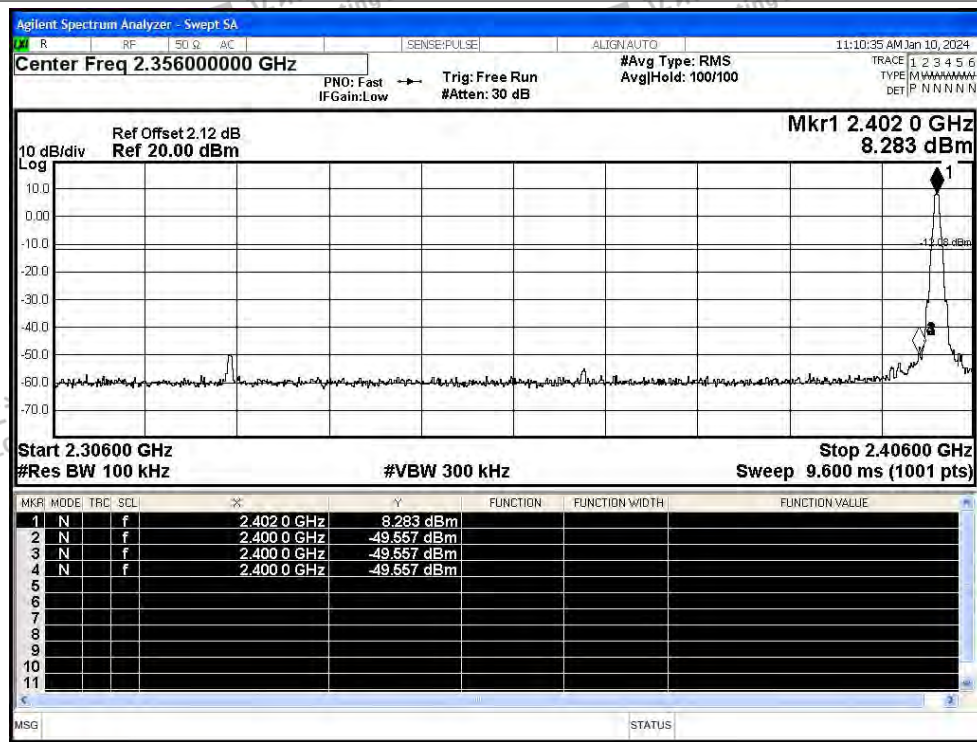


Test Graphs

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



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



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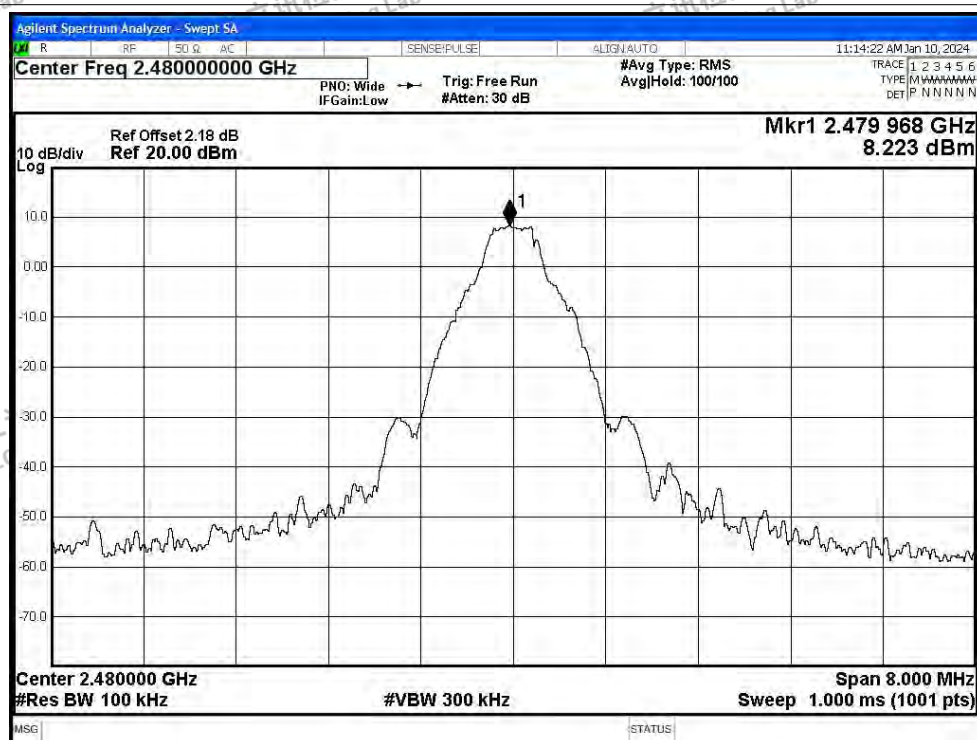
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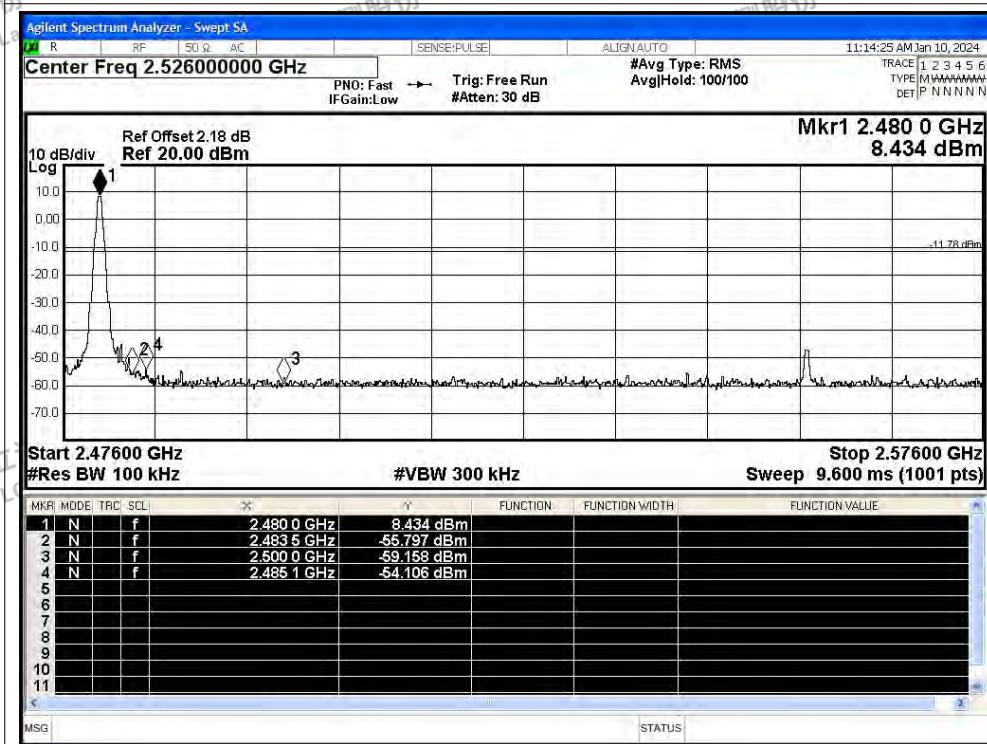
Scan code to check authenticity



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



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



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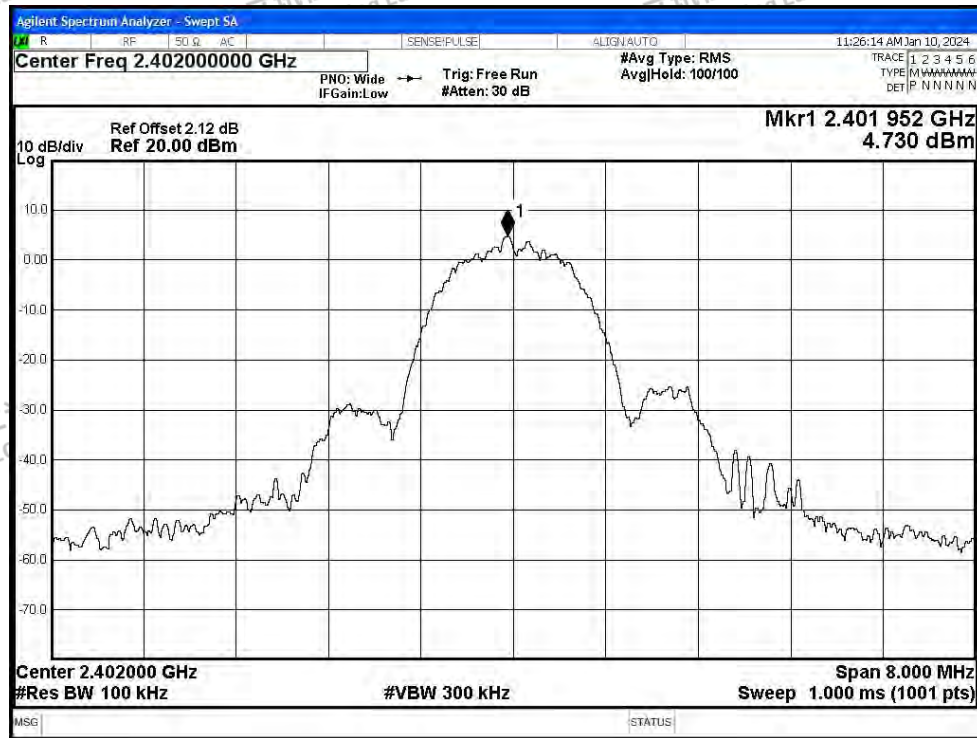
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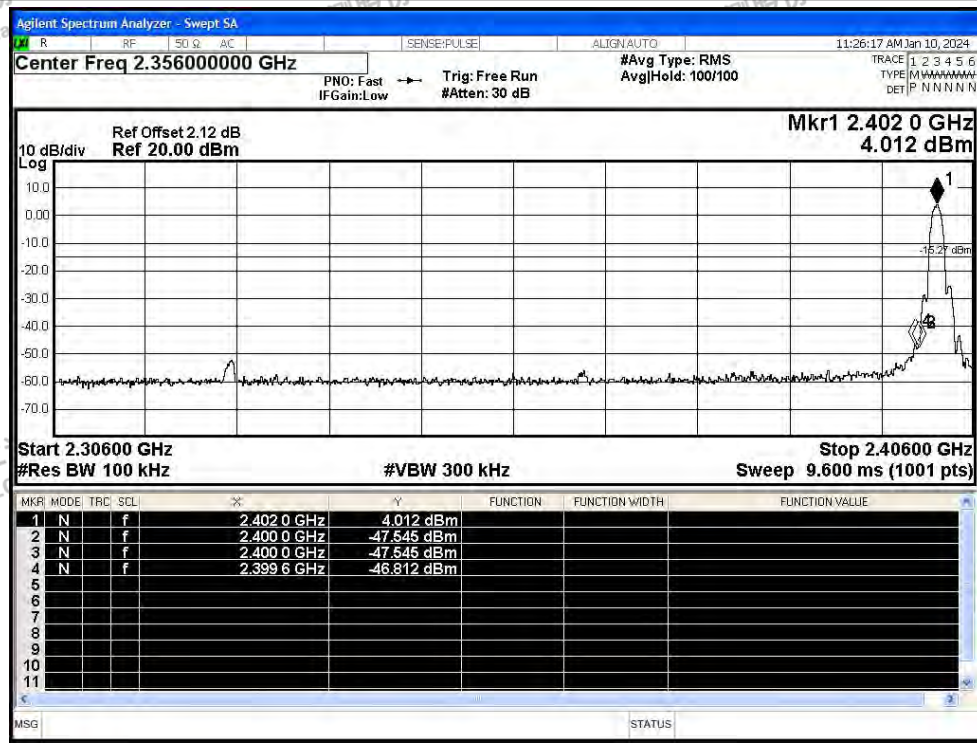
Scan code to check authenticity



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



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



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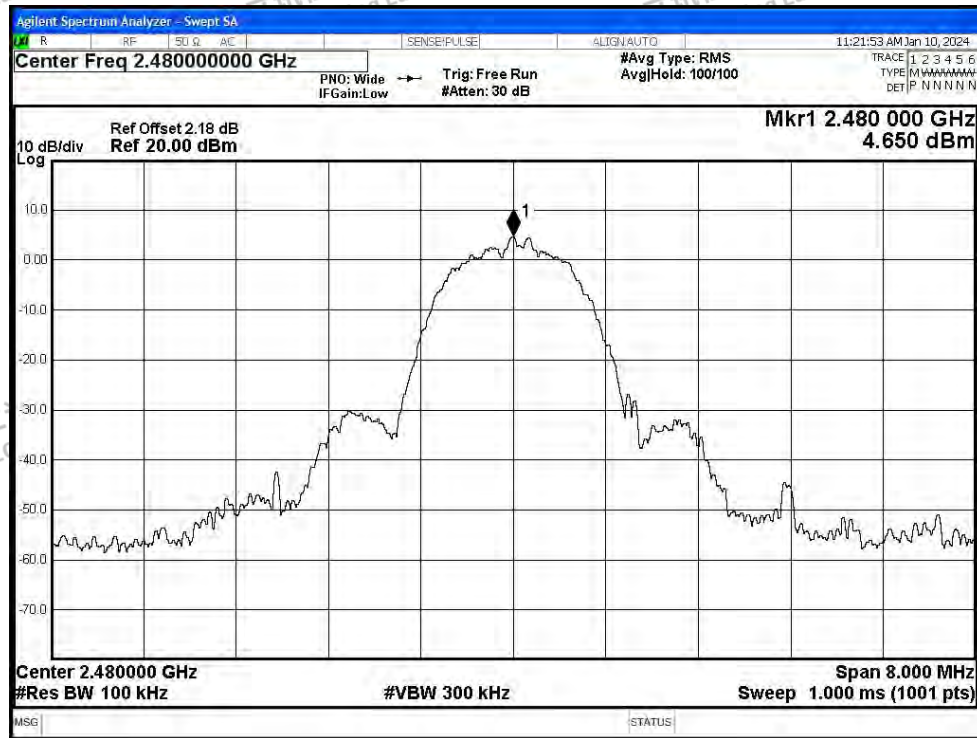
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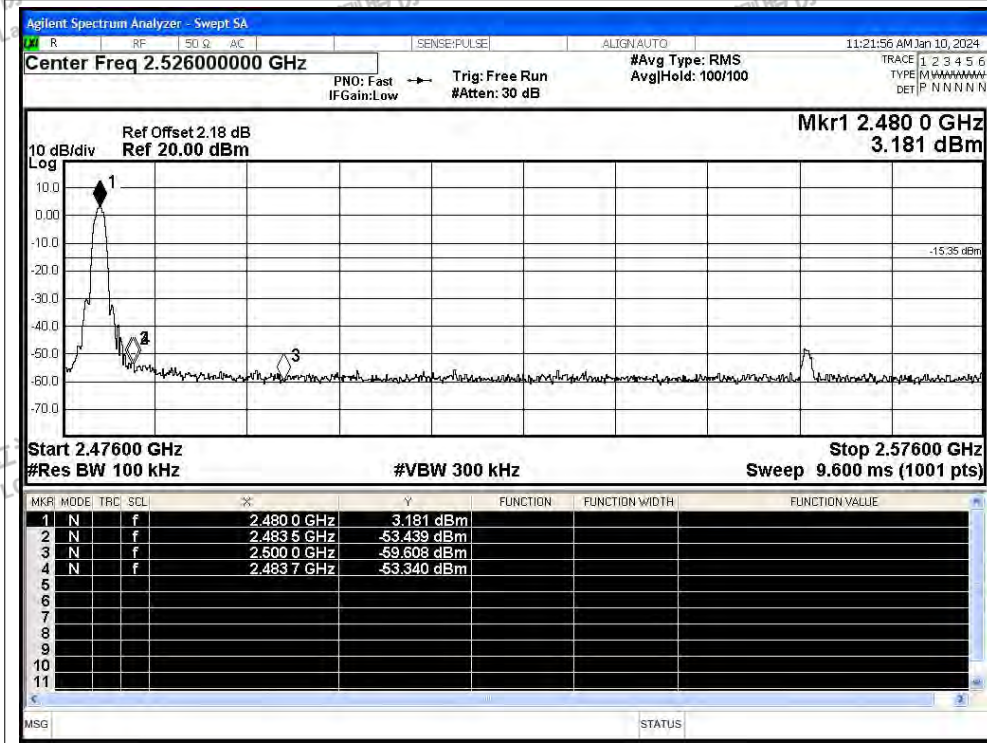
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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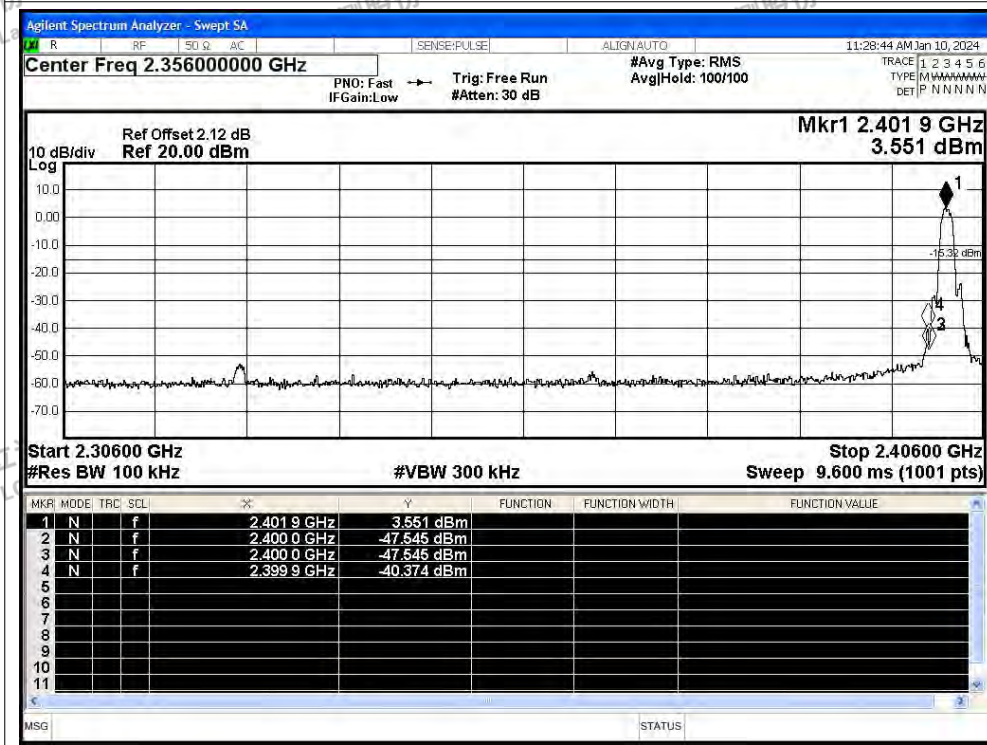
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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

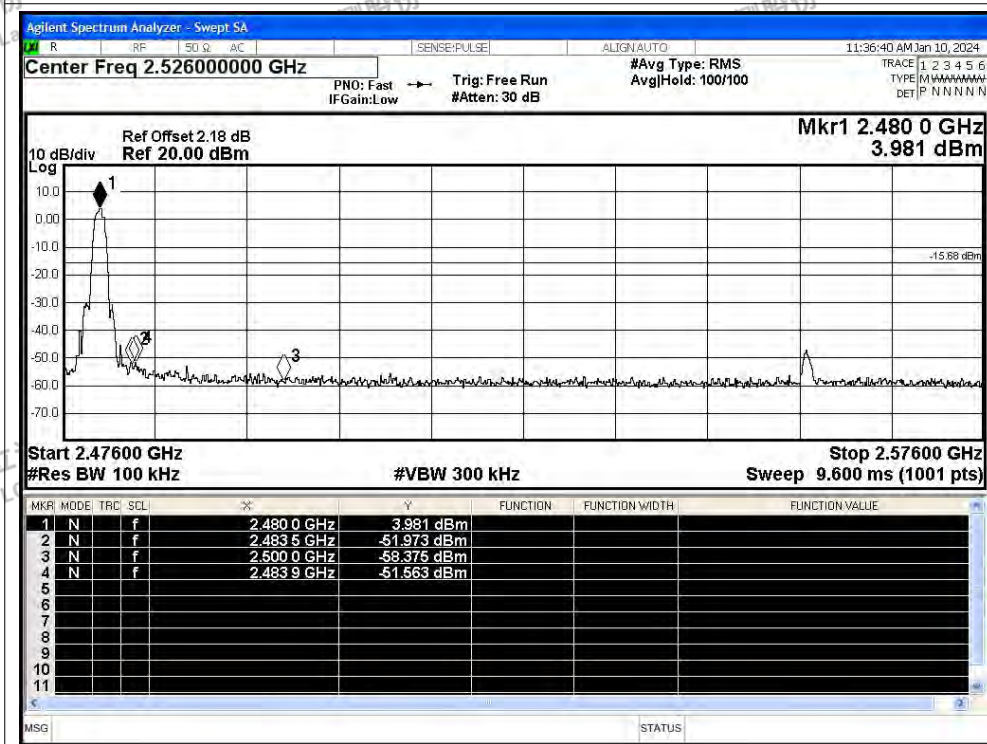




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-55.4	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.53	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.62	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-50.03	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.54	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-51.6	-20	Pass

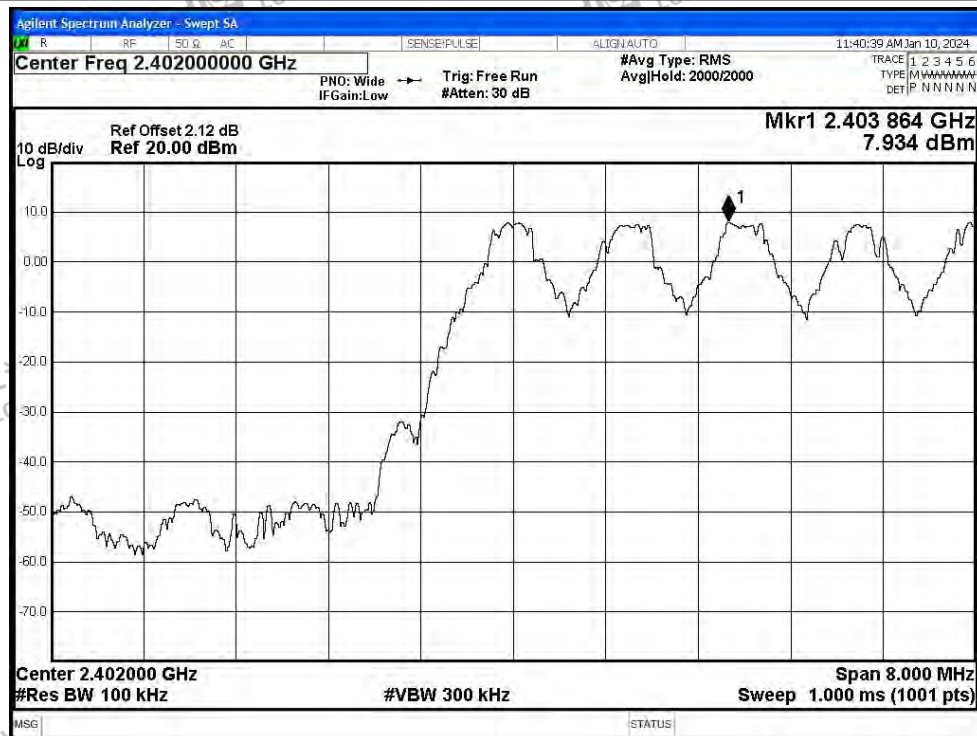


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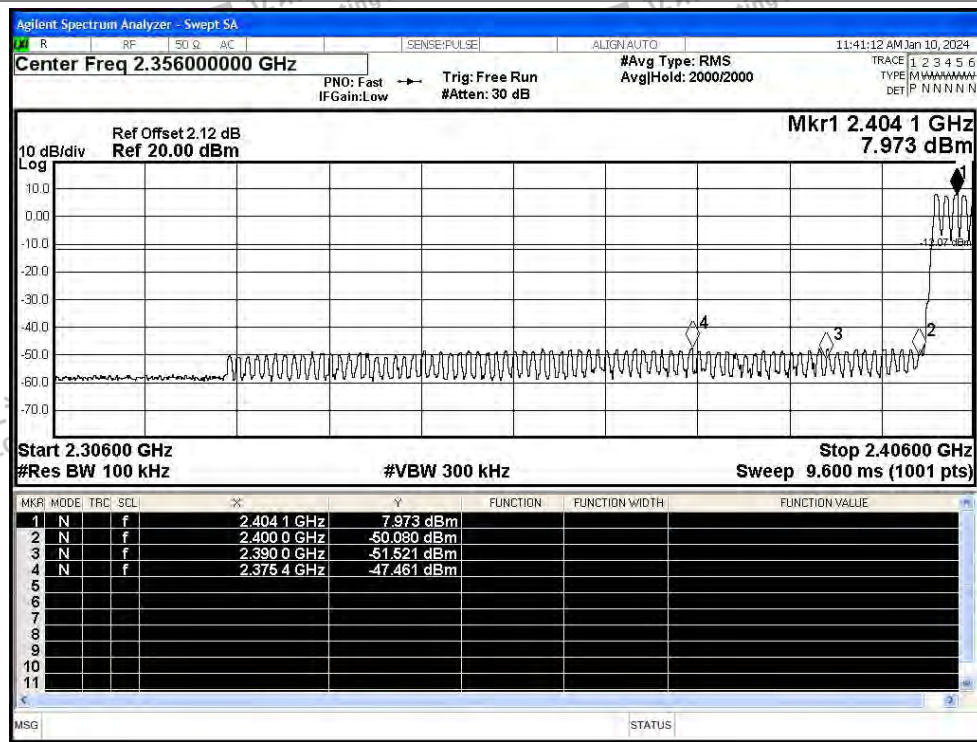


Test Graphs

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



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



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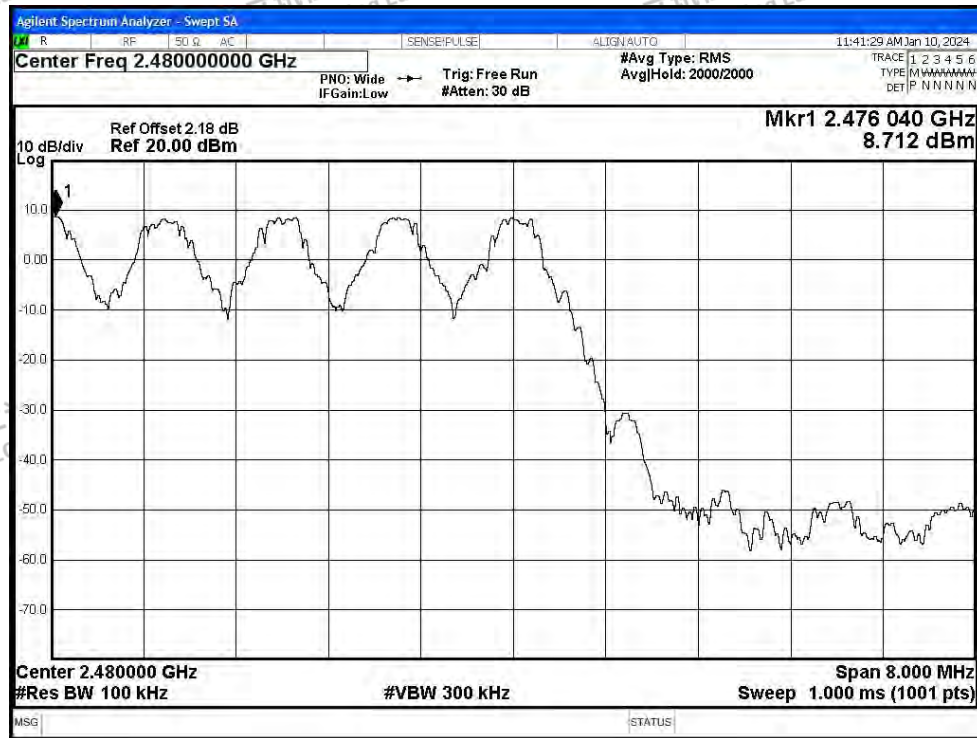
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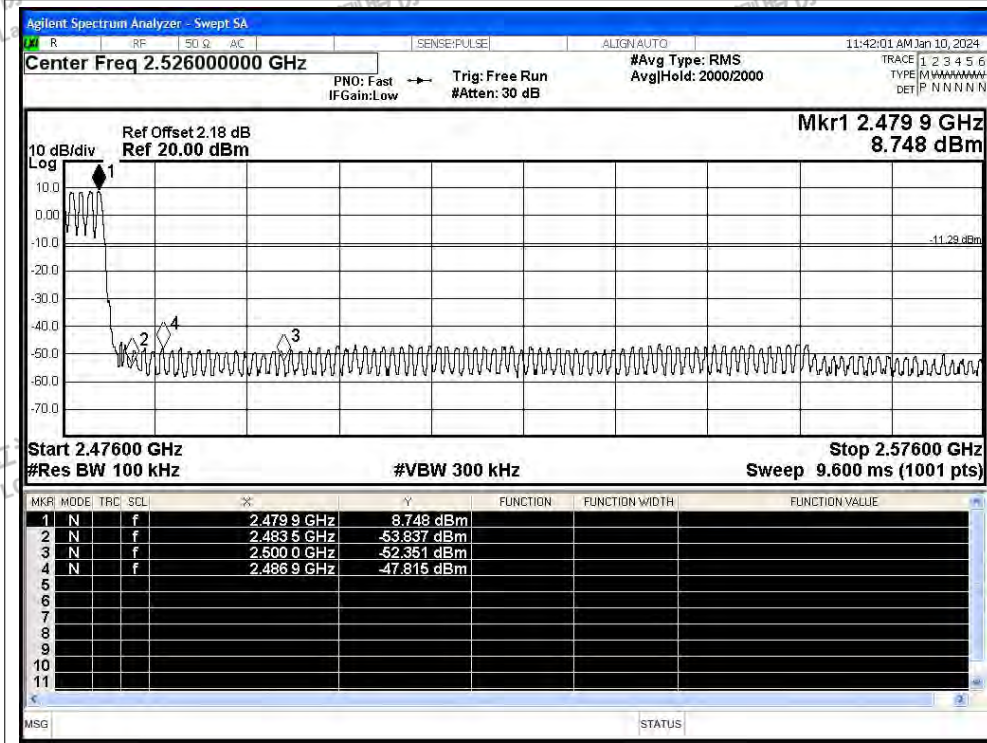
Scan code to check authenticity



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



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



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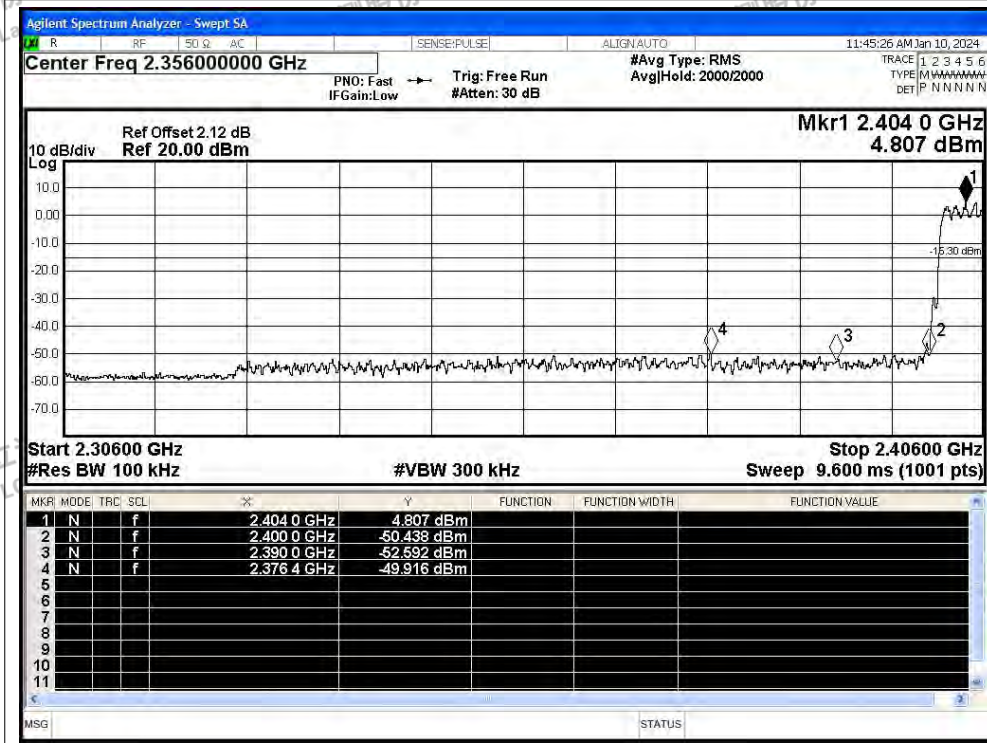
Scan code to check authenticity



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



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



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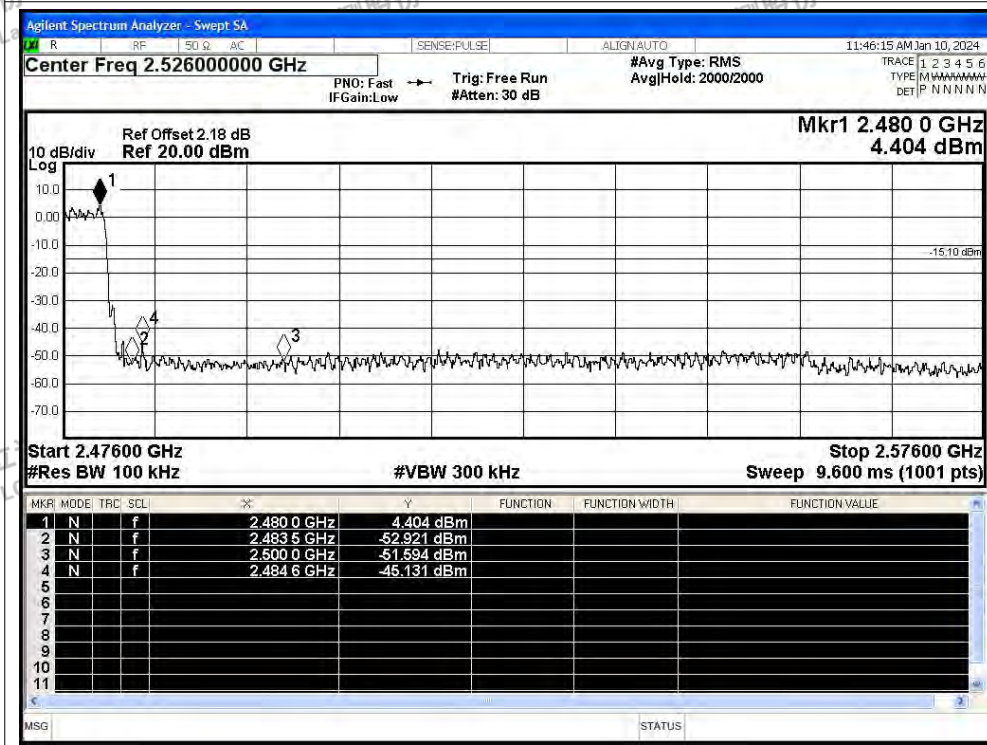
Scan code to check authenticity



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



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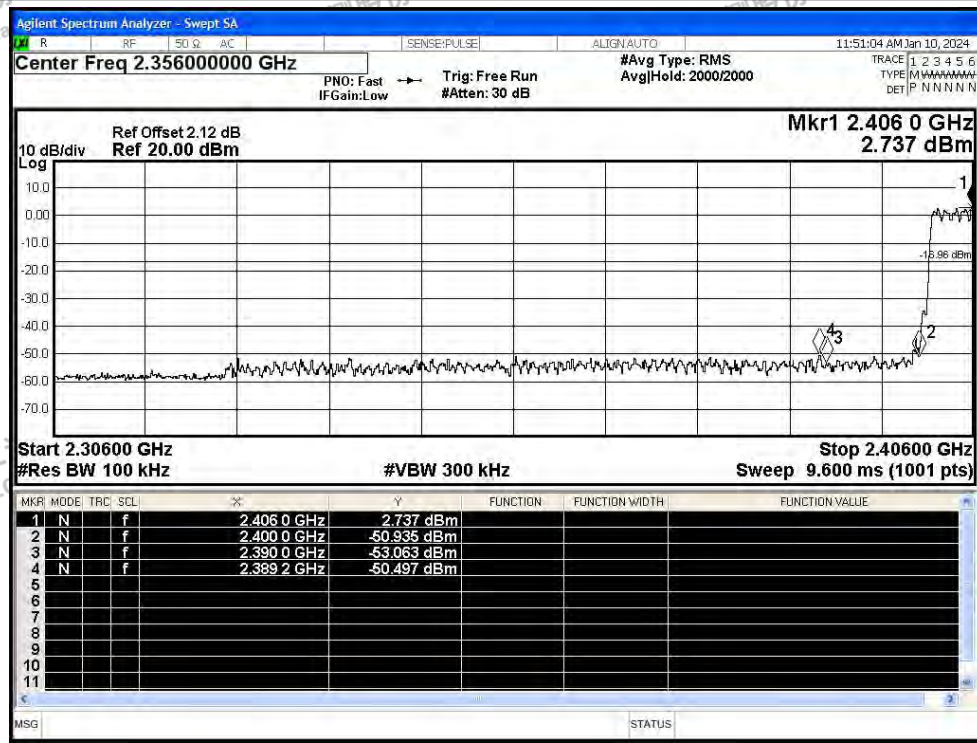
Scan code to check authenticity



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



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



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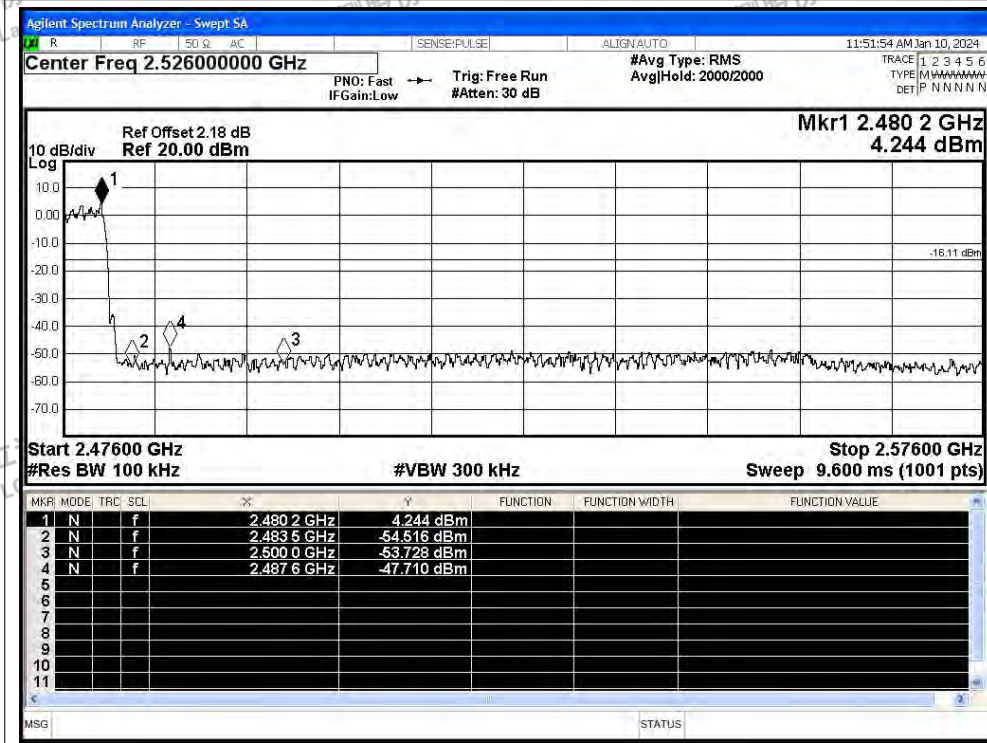
Scan code to check authenticity



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



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-59.87	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.93	-20	Pass
NVNT	1-DH5	2480	Ant1	-56.07	-20	Pass
NVNT	2-DH5	2402	Ant1	-59.68	-20	Pass
NVNT	2-DH5	2441	Ant1	-57.41	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.64	-20	Pass
NVNT	3-DH5	2402	Ant1	-57.96	-20	Pass
NVNT	3-DH5	2441	Ant1	-57.17	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.81	-20	Pass

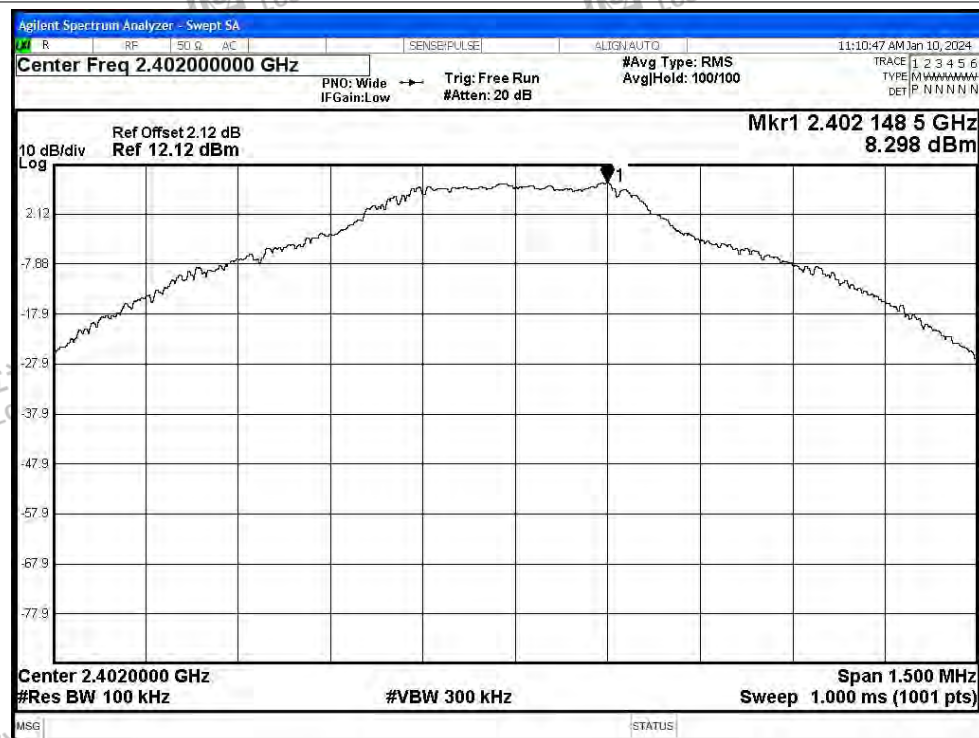


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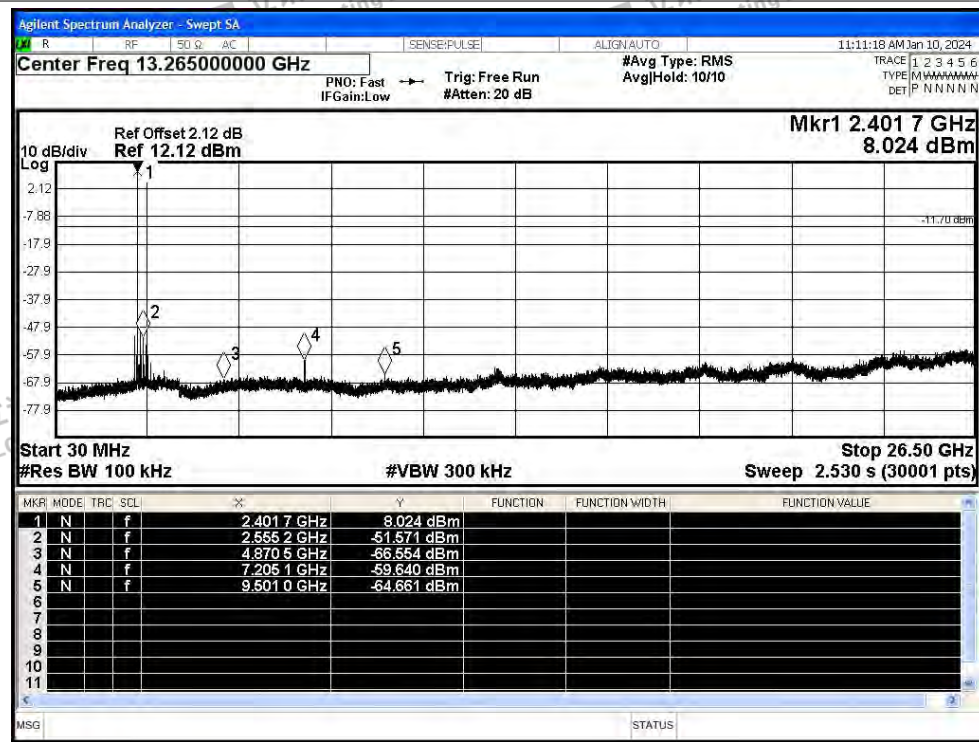


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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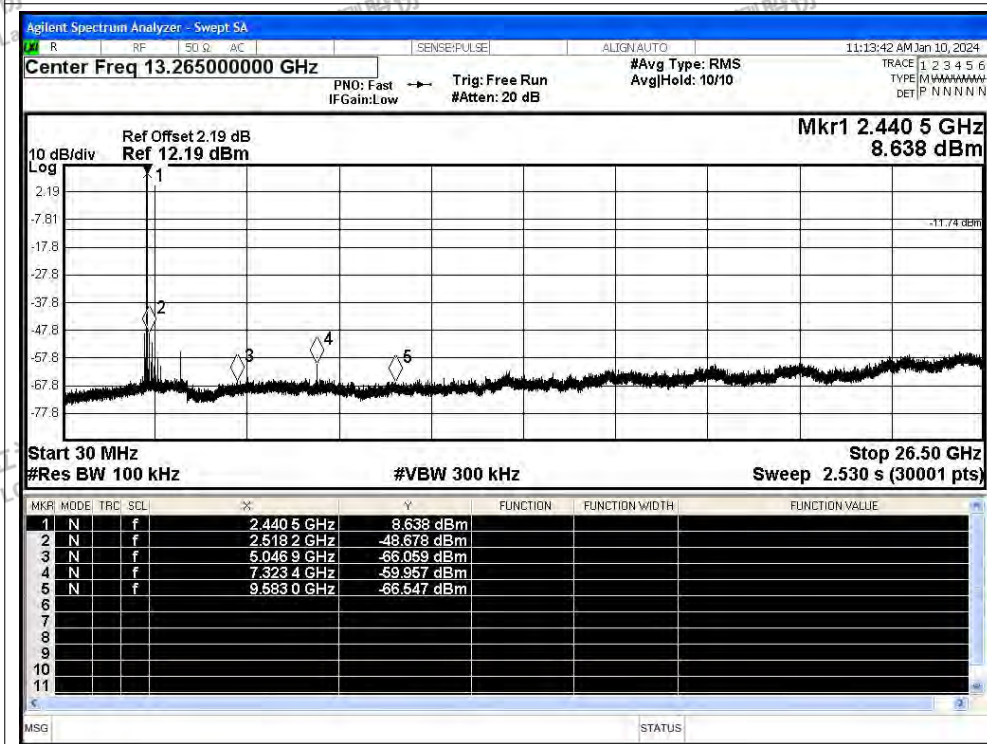
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

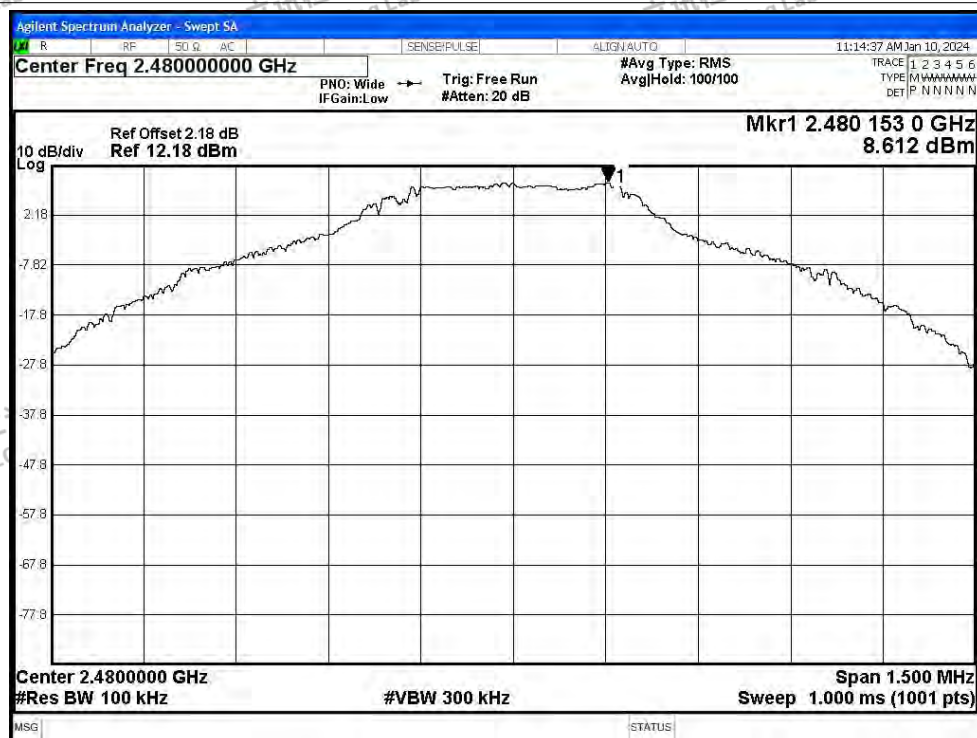
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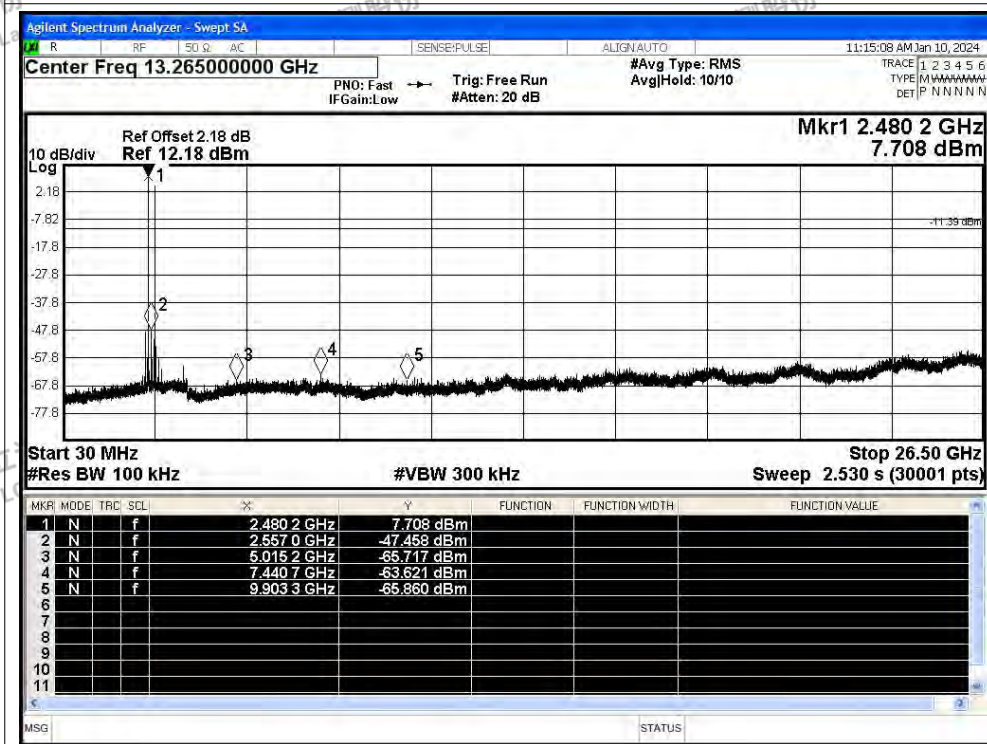
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

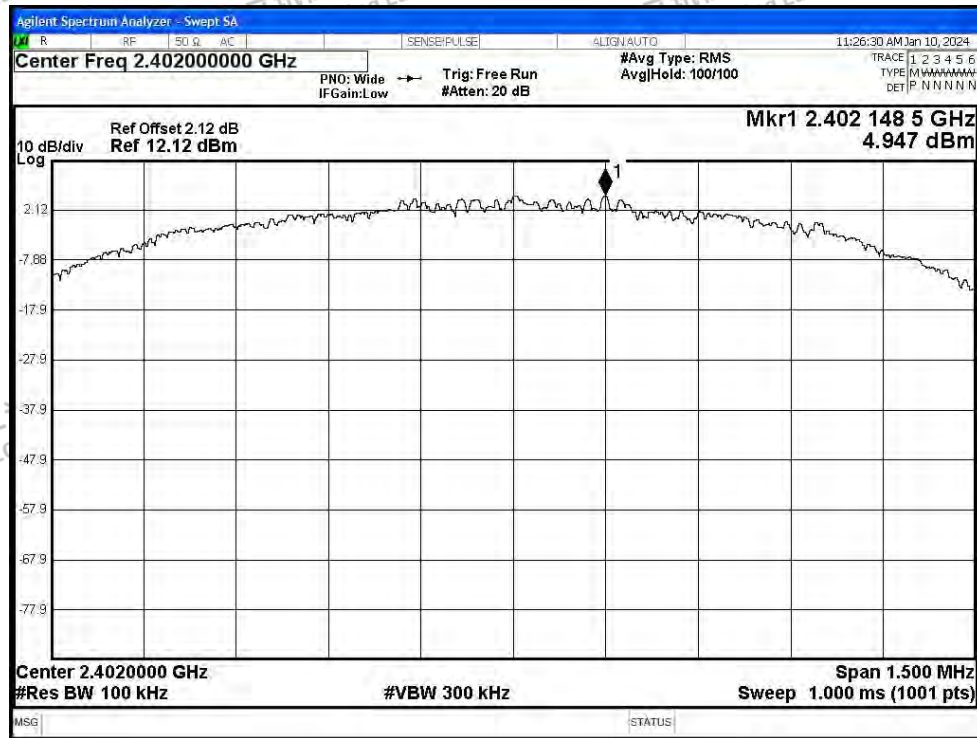
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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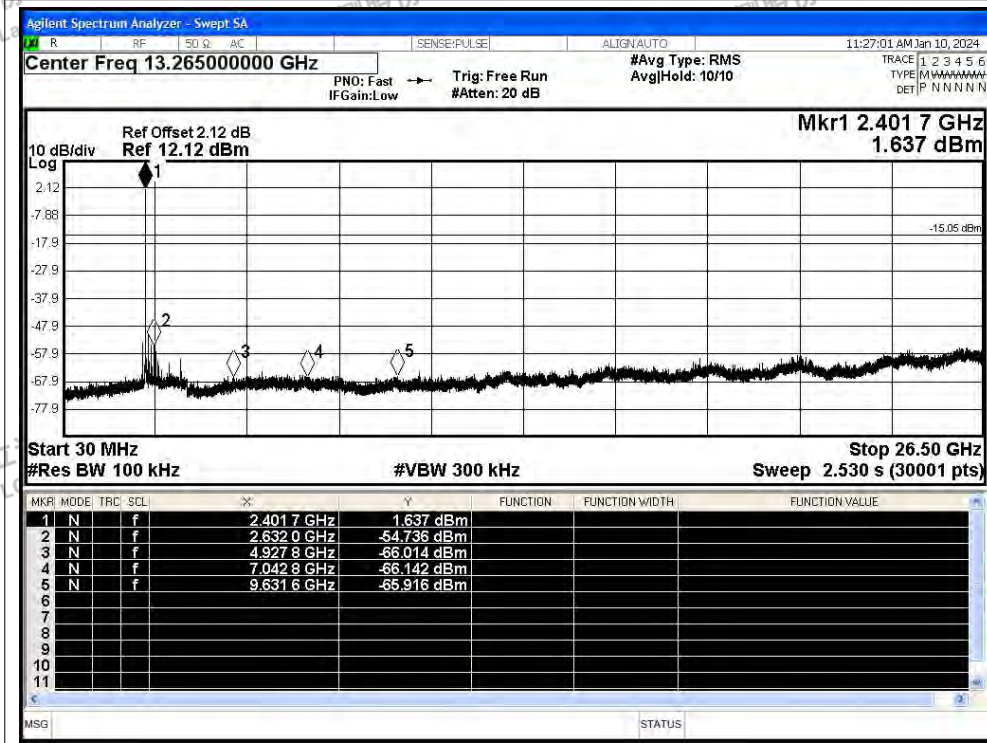
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

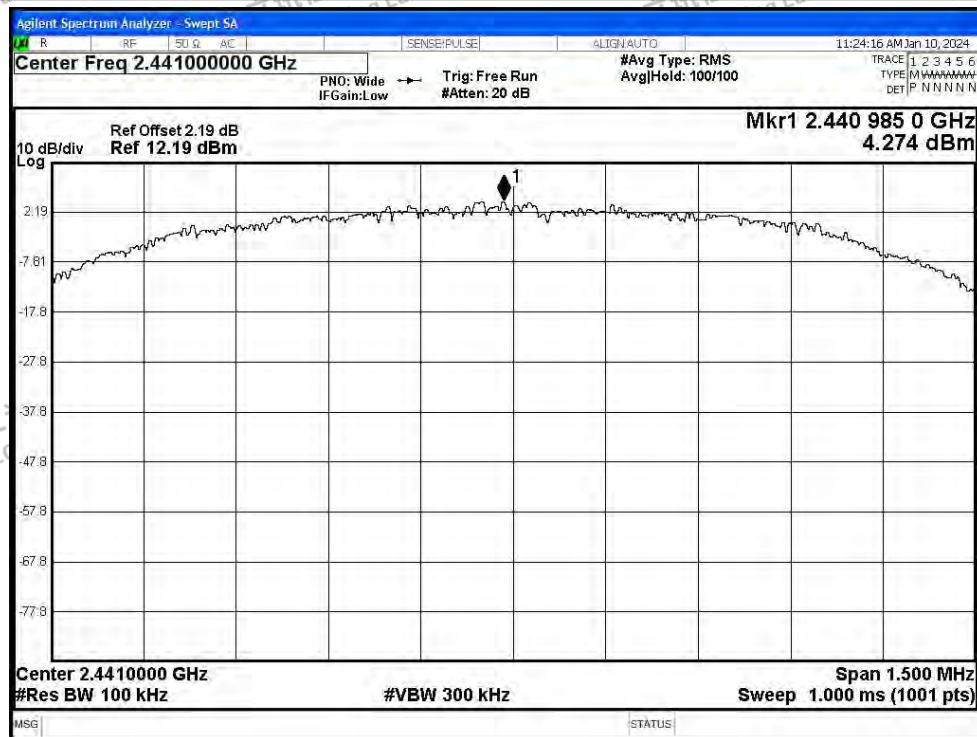
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

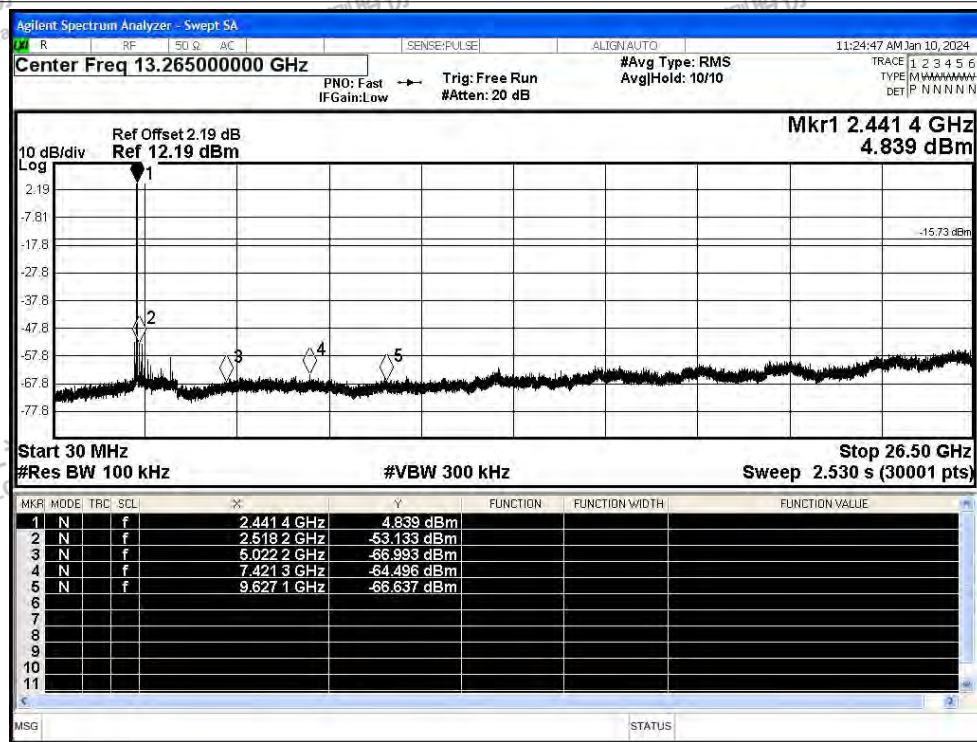
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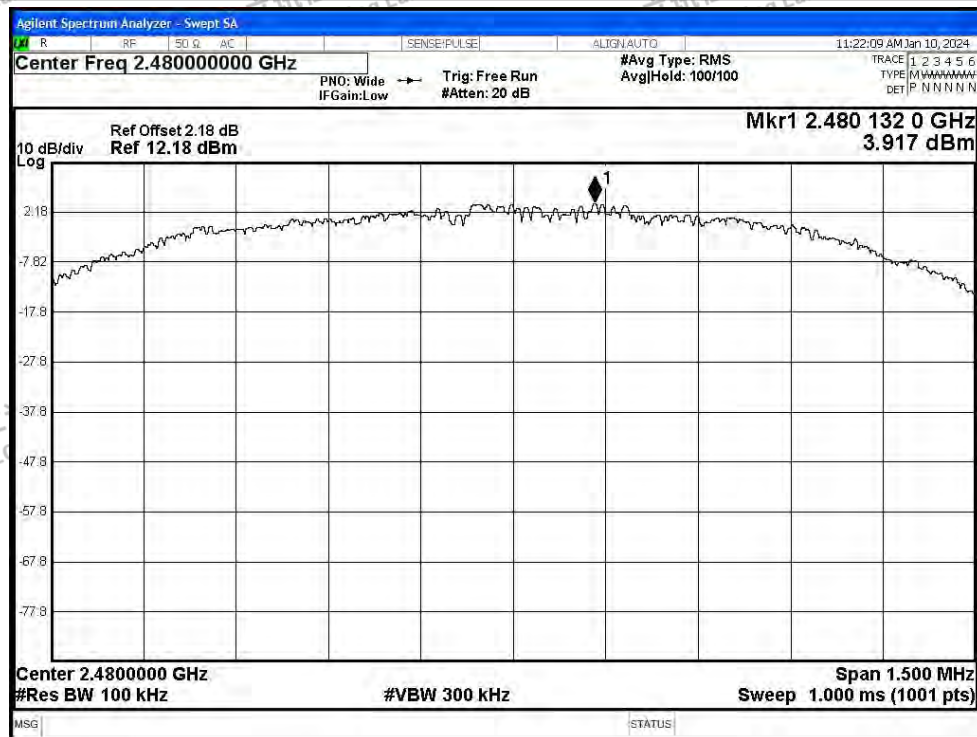


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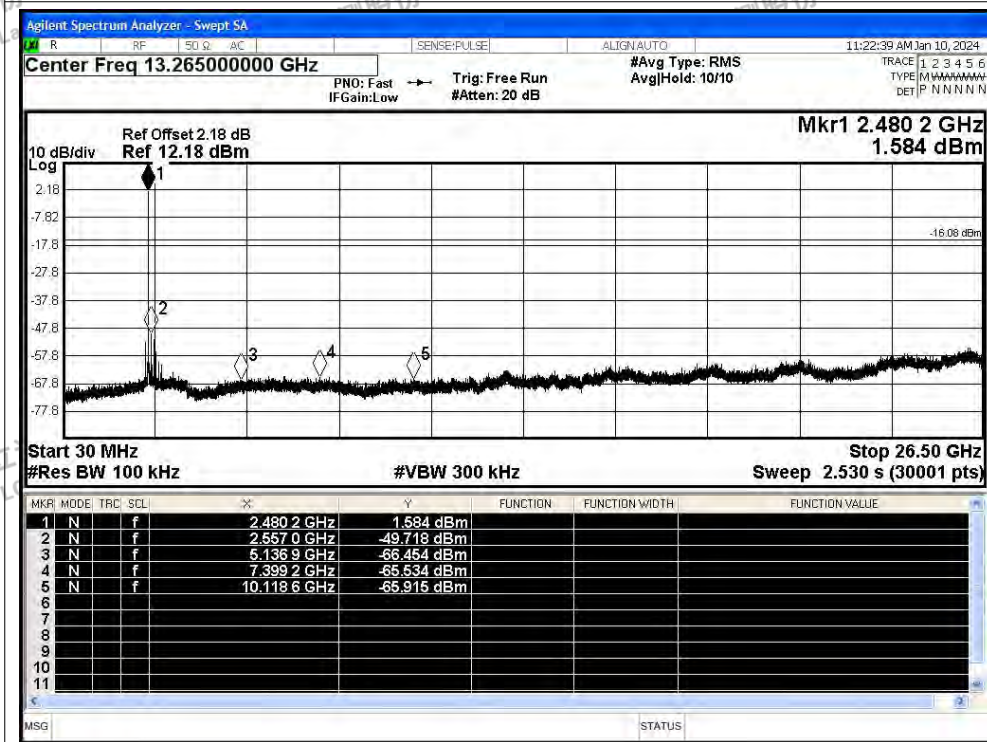




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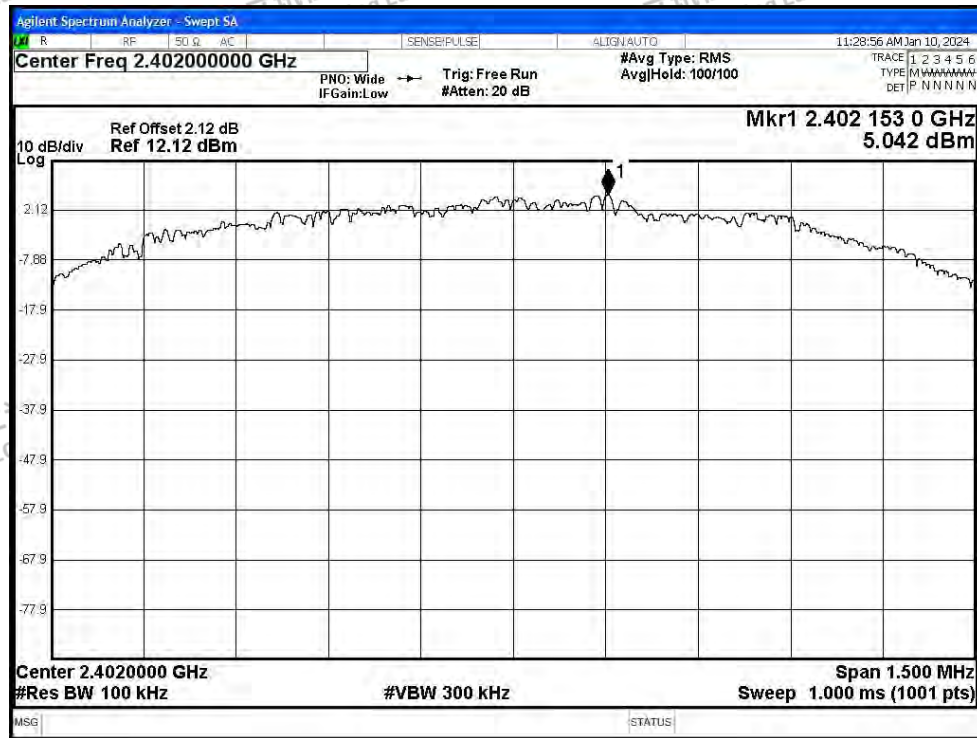


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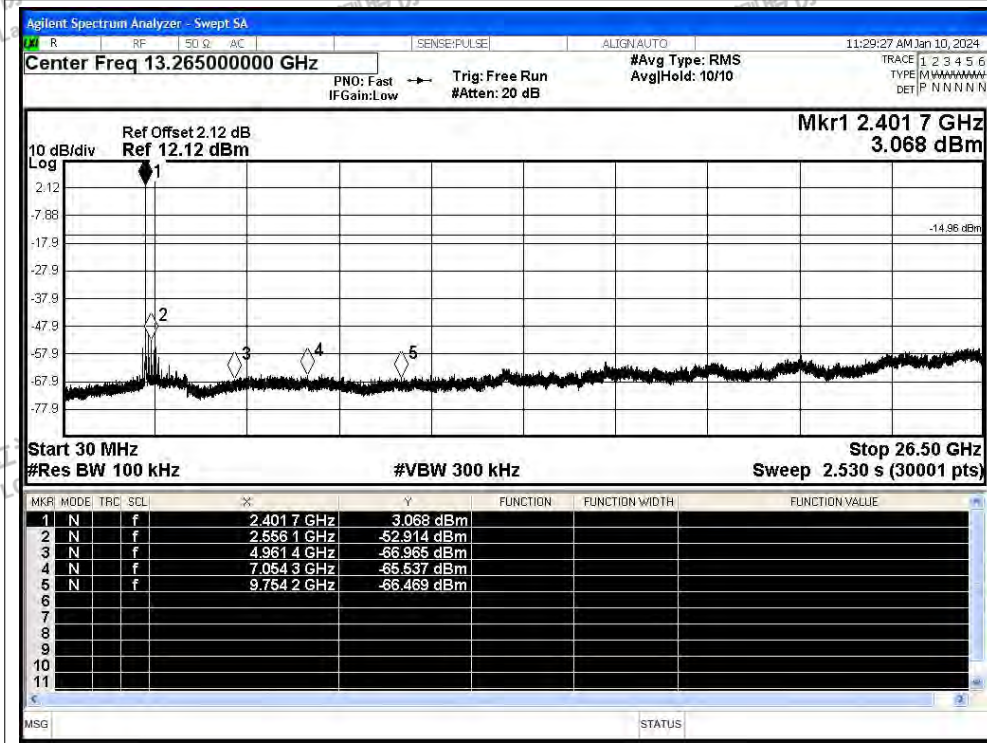




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

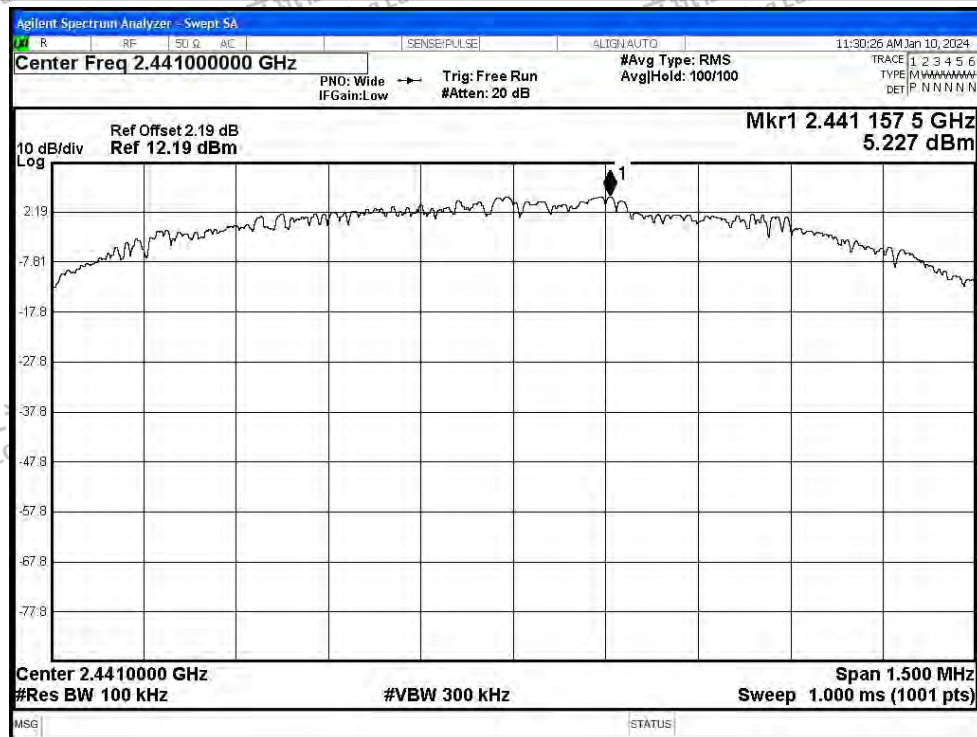
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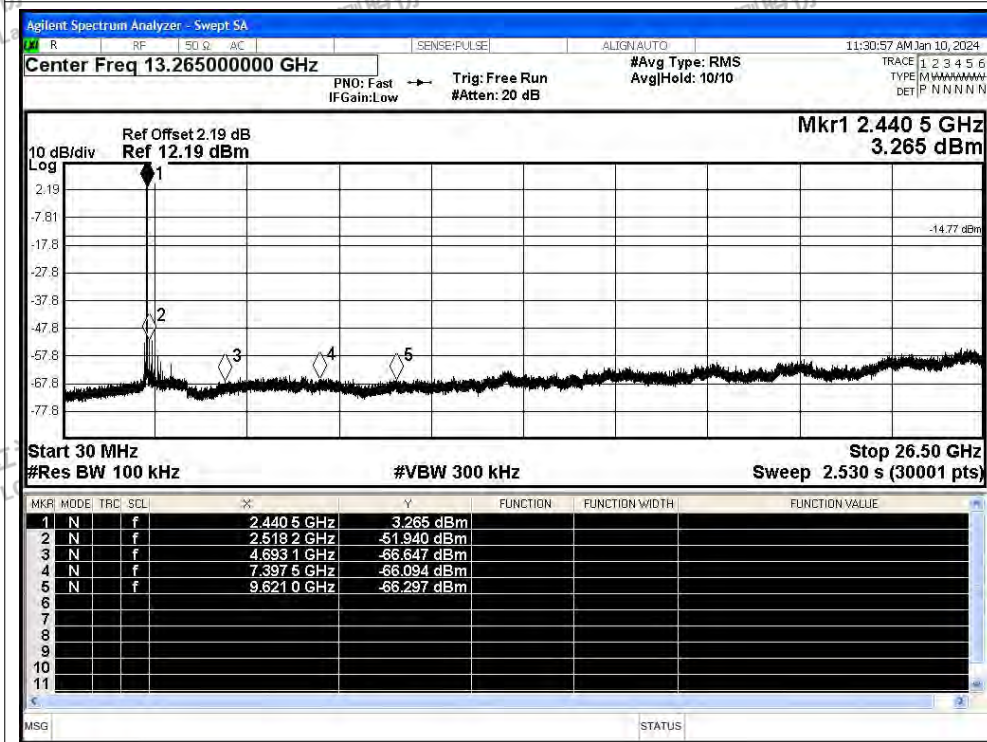
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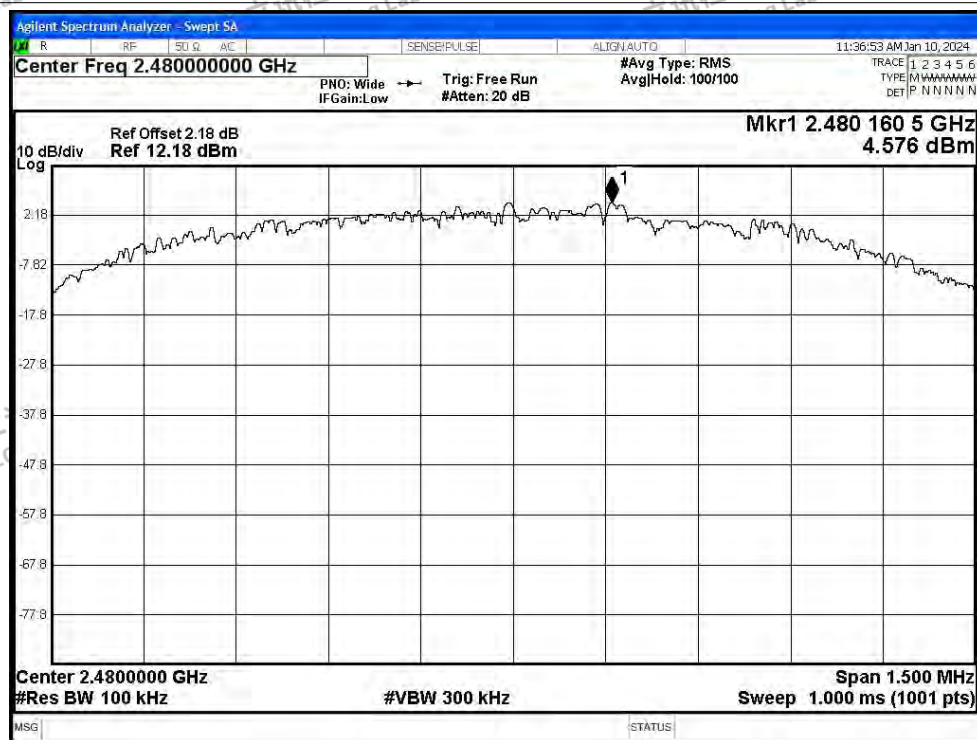


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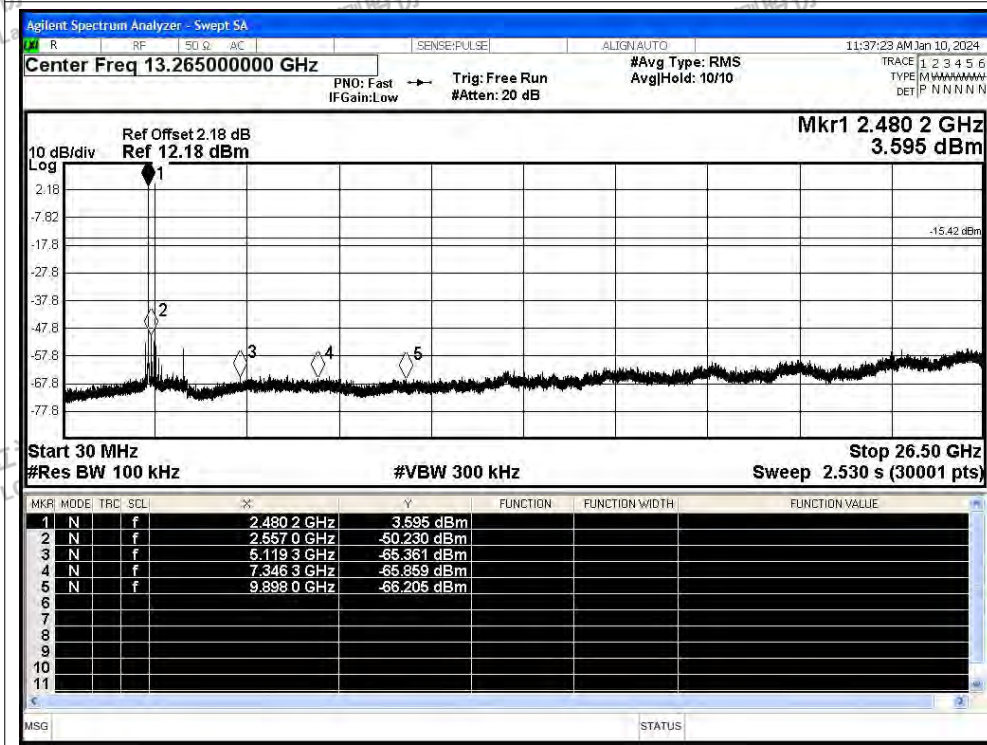




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.99	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.96	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2402	Ant1	77.09	1.13	0.35
NVNT	2-DH5	2441	Ant1	77.07	1.13	0.35
NVNT	2-DH5	2480	Ant1	77.09	1.13	0.35
NVNT	3-DH5	2402	Ant1	77.12	1.13	0.35
NVNT	3-DH5	2441	Ant1	77.15	1.13	0.35
NVNT	3-DH5	2480	Ant1	76.22	1.18	0.36

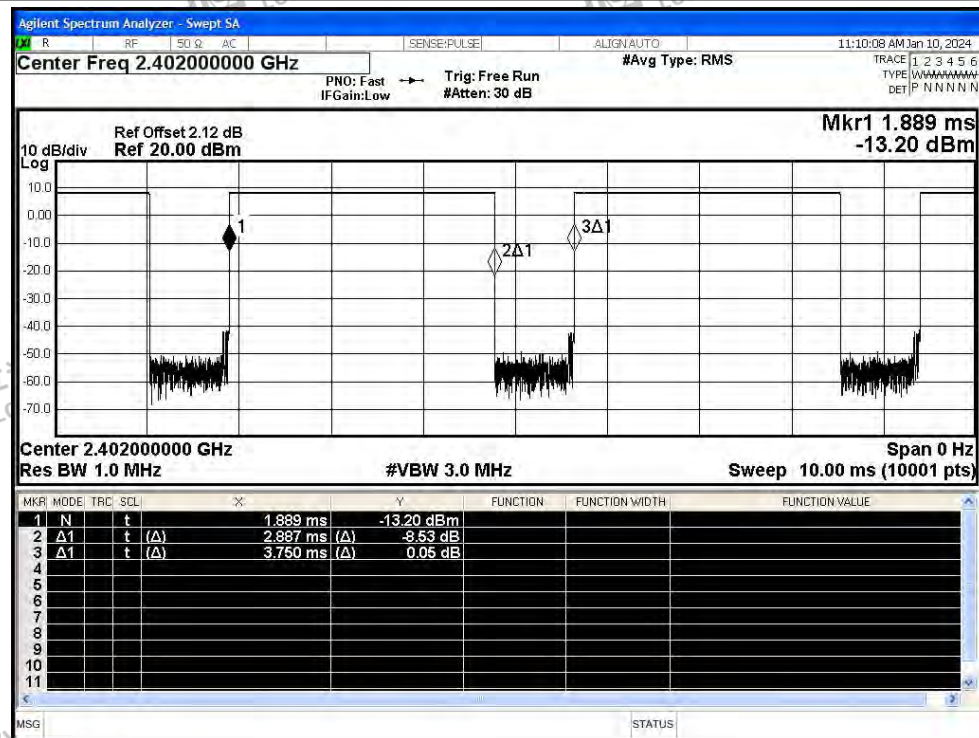


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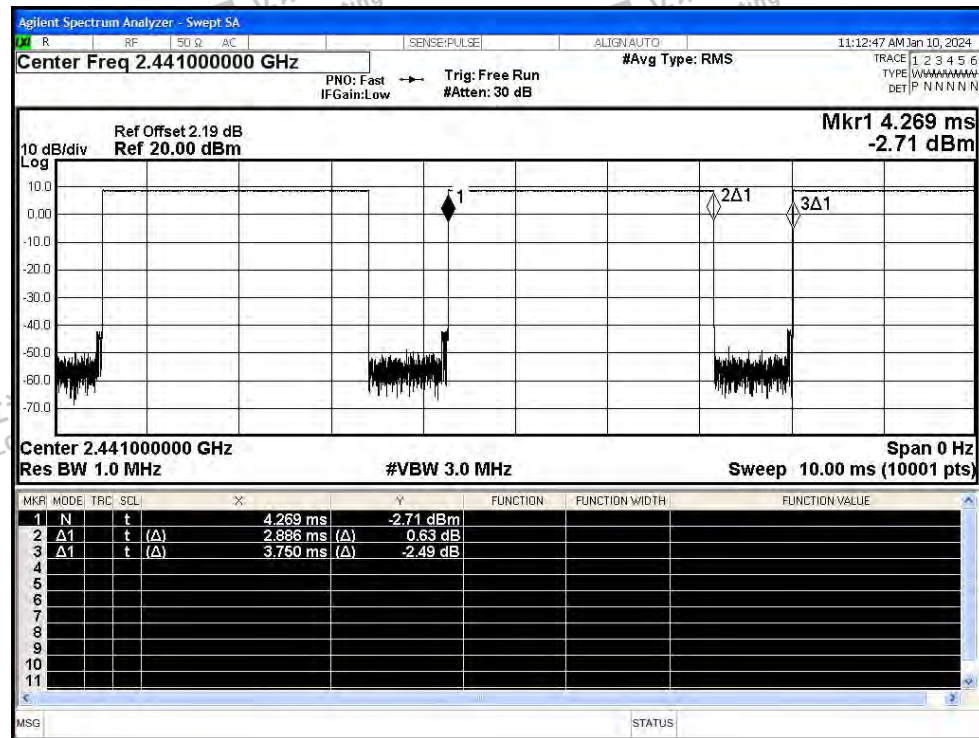


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



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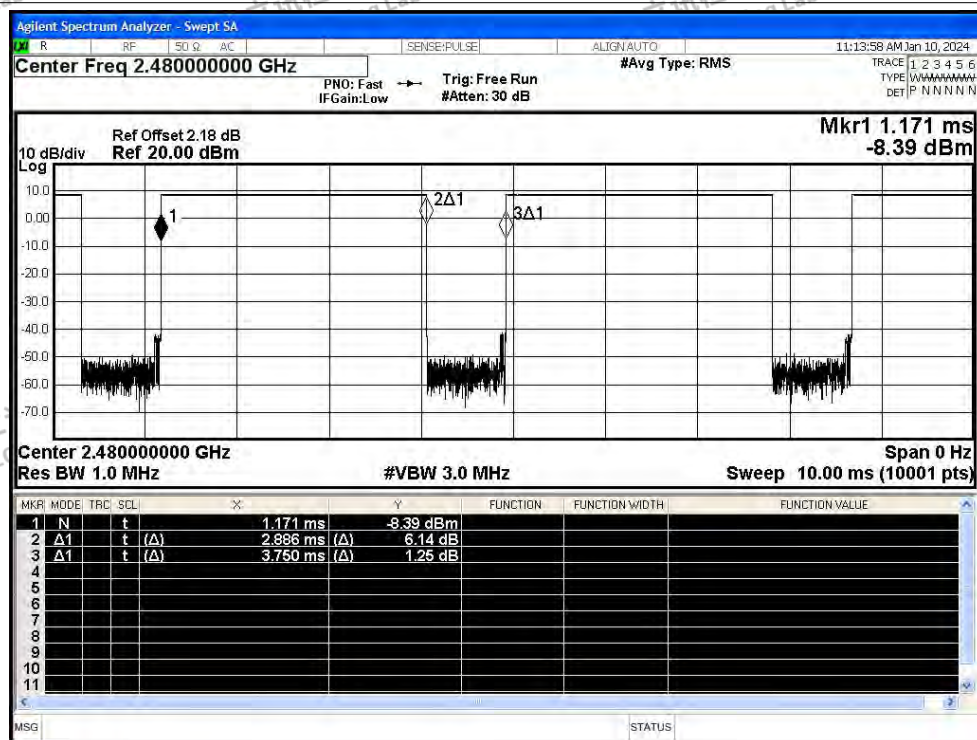
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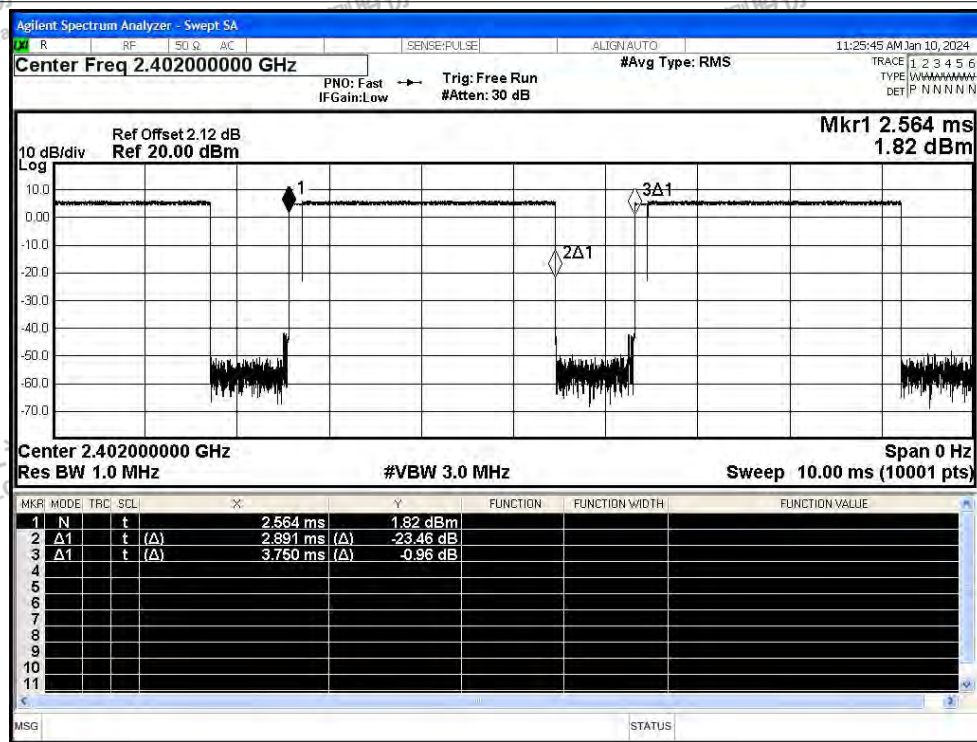
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

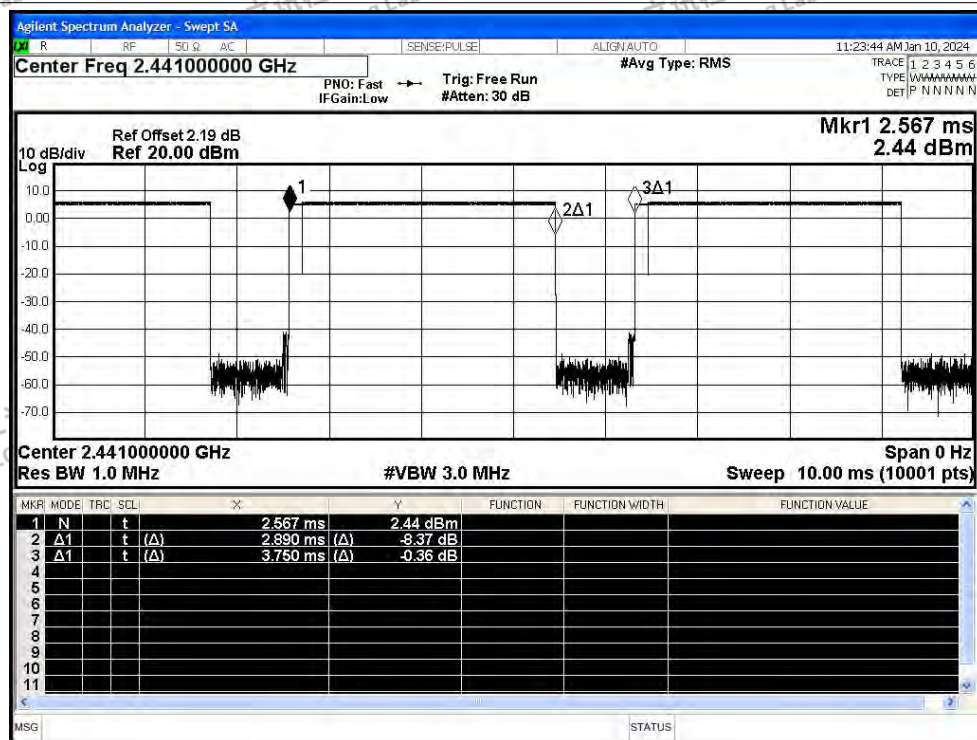
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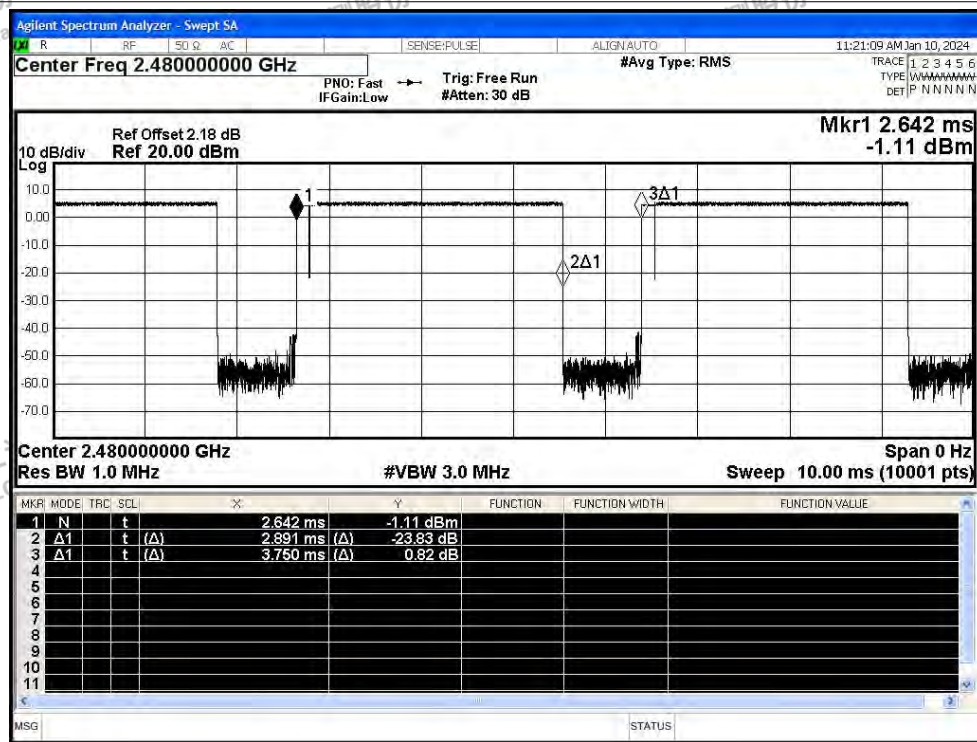
Scan code to check authenticity



Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



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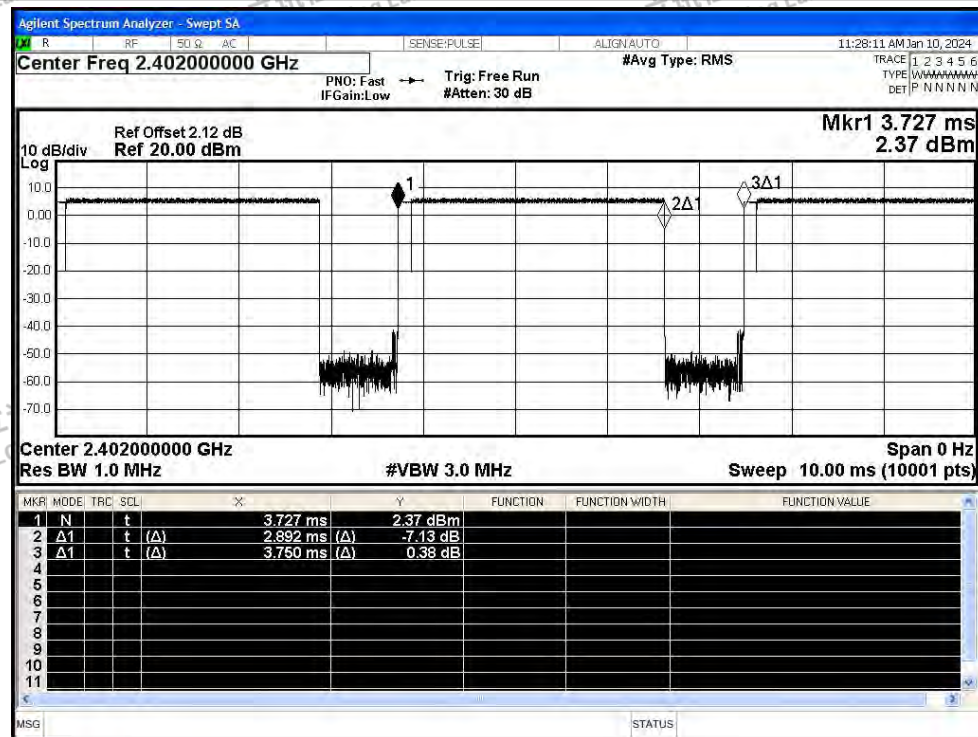
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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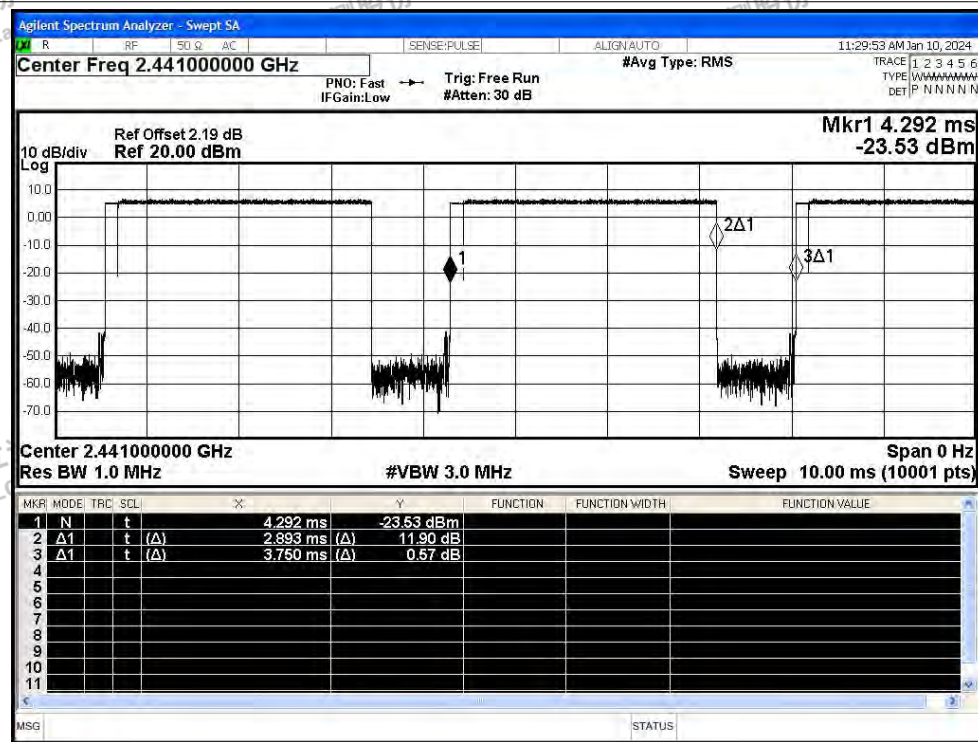
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Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



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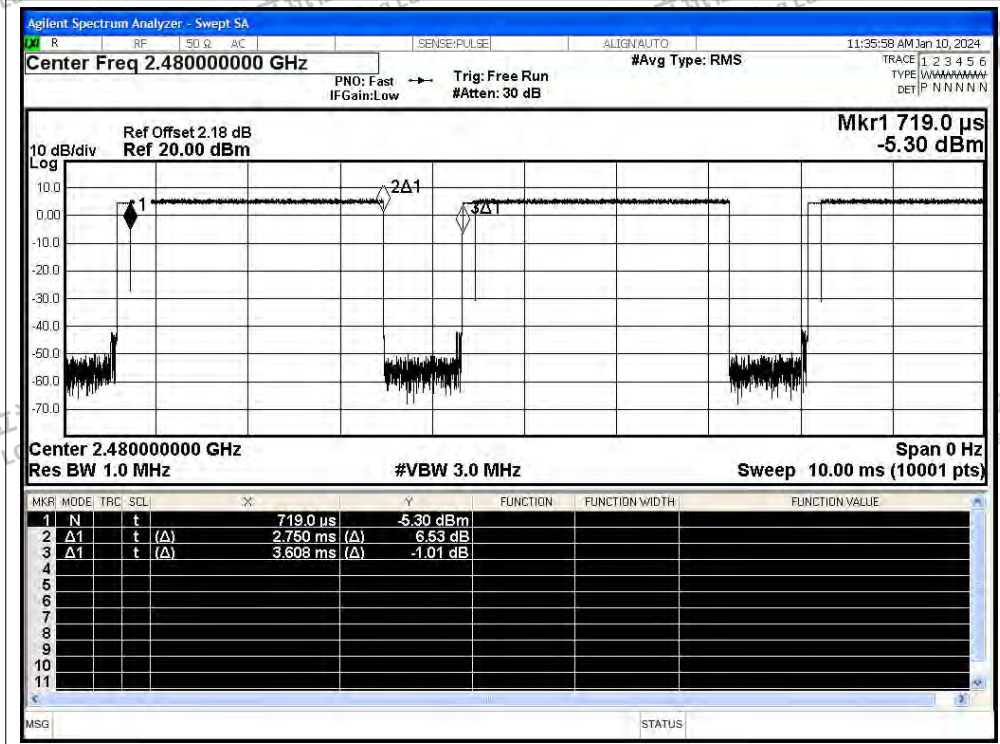
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A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.15	2	-	46.11	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.25	2	1.14	40.15	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2324.976	-44.32	2	-	52.94	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2325.456	-51.12	2	1.14	47.28	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.92	2	-	47.34	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.4	2	1.14	41	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-44.23	2	-	53.03	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-53.52	2	1.14	44.88	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.968	-39.82	2	-	57.44	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.584	-53.39	2	1.14	45.01	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.07	2	-	47.19	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.01	2	1.14	40.39	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.38	2	-	45.88	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.48	2	1.13	38.91	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2325.168	-45.47	2	-	51.79	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2325.456	-52.85	2	1.13	45.54	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-47.9	2	-	49.36	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.15	2	1.13	41.24	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-44.59	2	-	52.67	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-53.19	2	1.13	45.2	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.632	-41.91	2	-	55.35	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.304	-52.98	2	1.13	45.41	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-47.93	2	-	49.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.45	2	1.13	40.94	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.76	2	-	47.5	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.71	2	1.13	39.68	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2384.592	-45.98	2	-	51.28	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2325.36	-52.68	2	1.13	45.71	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-46.94	2	-	50.32	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-56.64	2	1.13	41.75	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-43.69	2	-	53.57	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-53.44	2	1.18	45	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.584	-41.86	2	-	55.4	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.608	-52.73	2	1.18	45.71	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.86	2	-	48.4	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.17	2	1.18	41.27	Average	54	Pass



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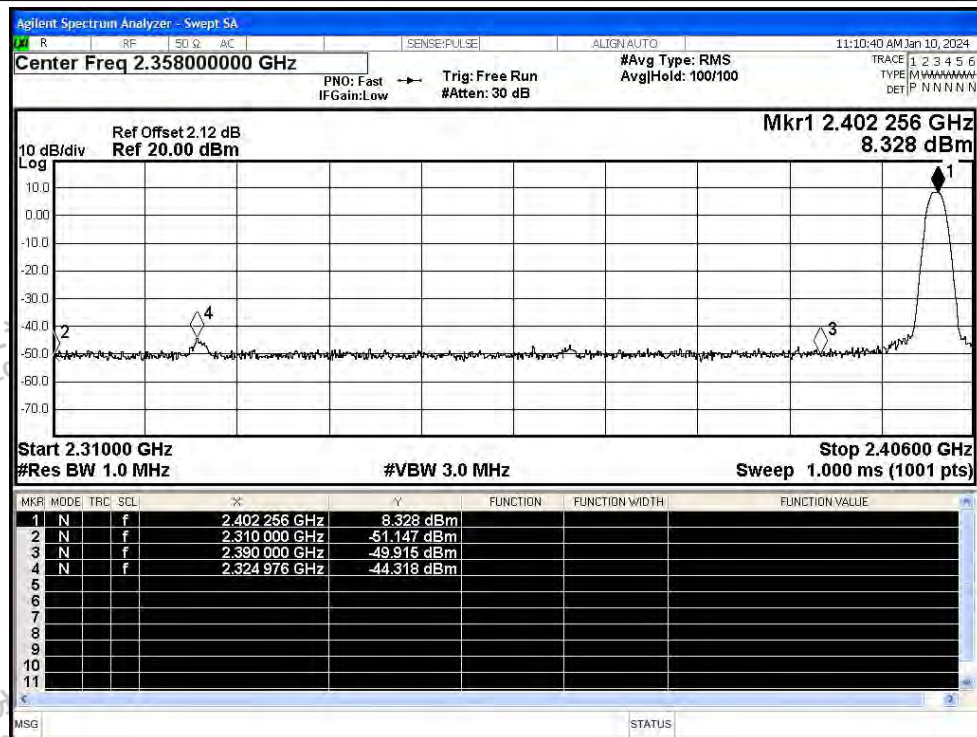
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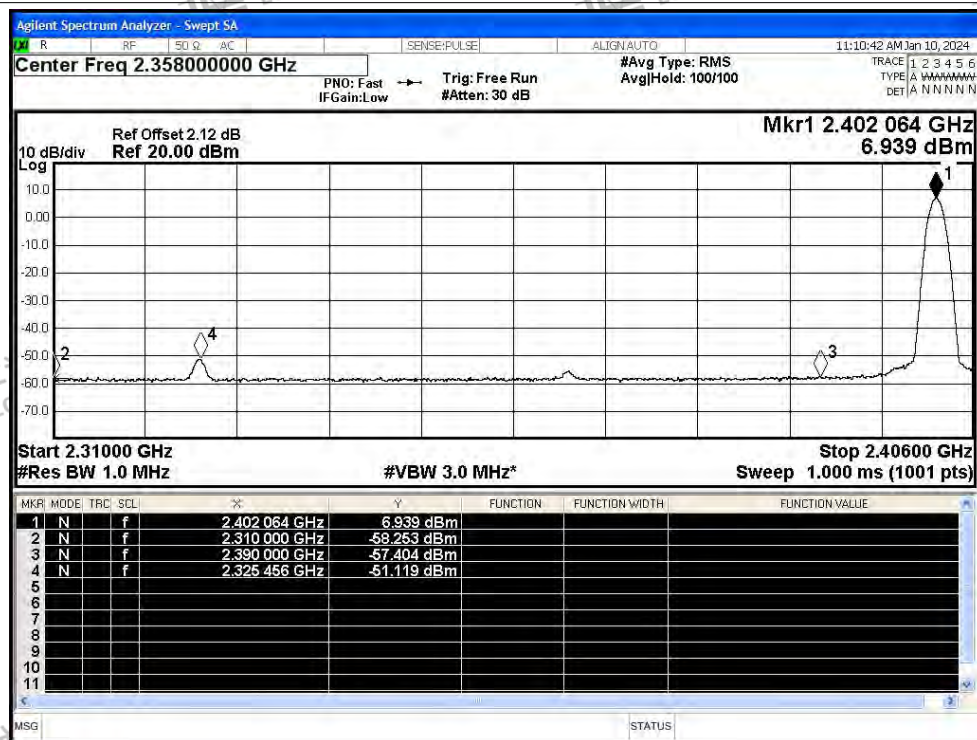


Test Graphs

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.

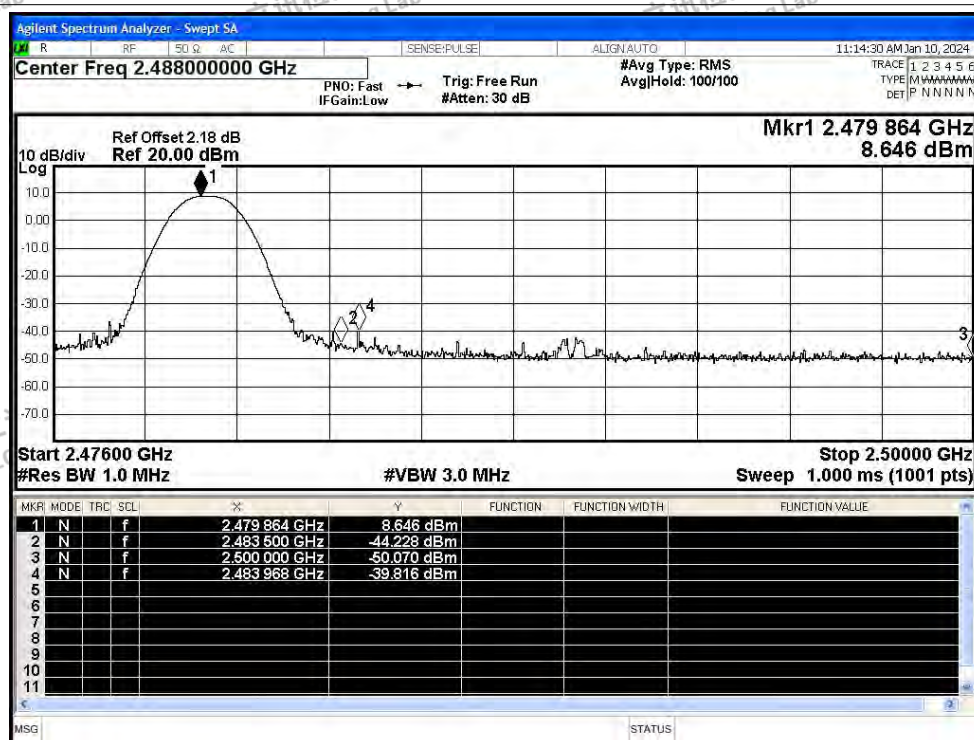
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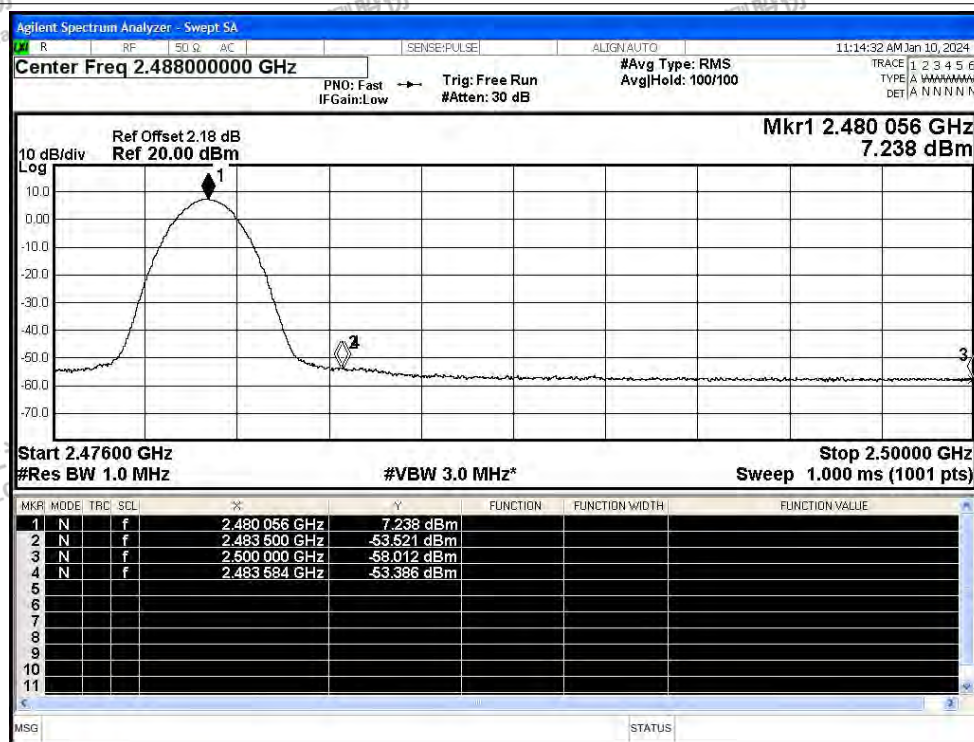
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



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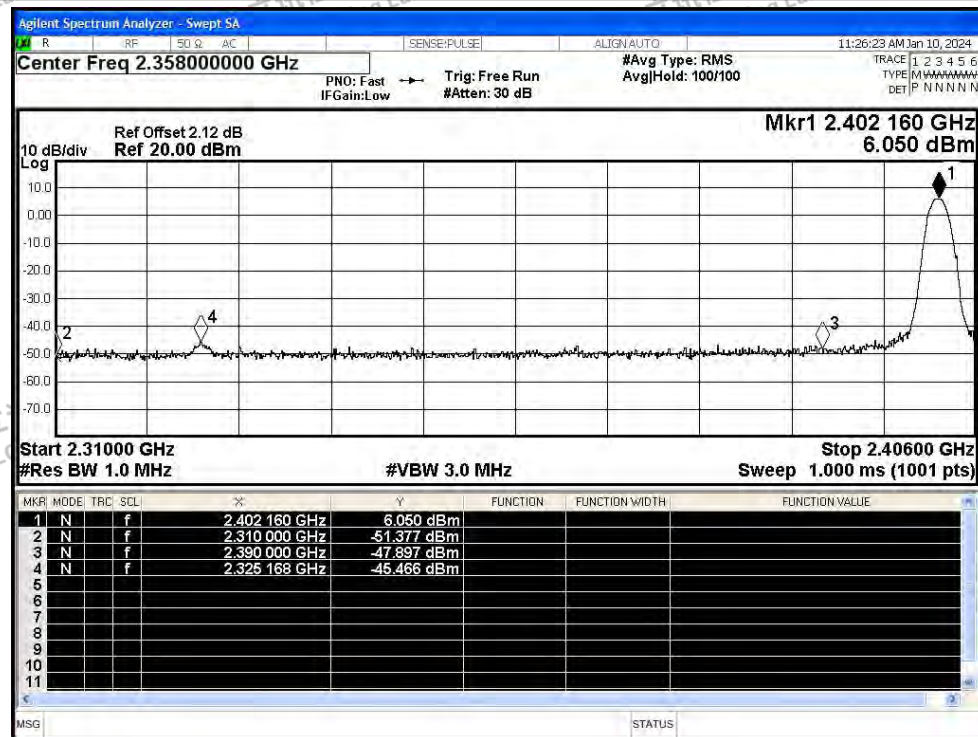
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

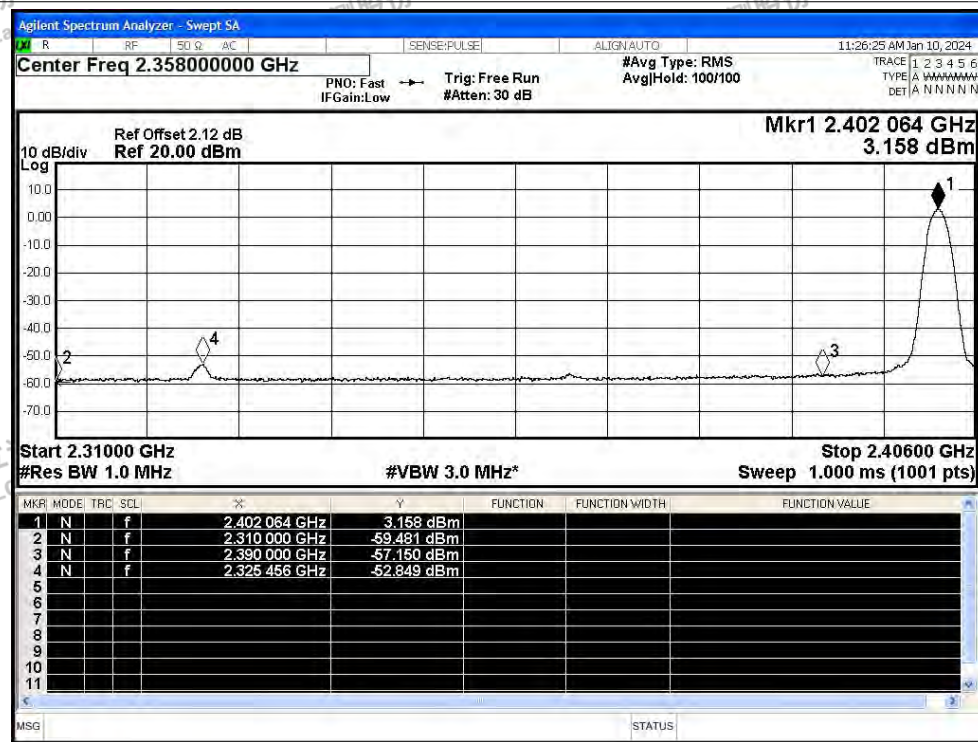
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

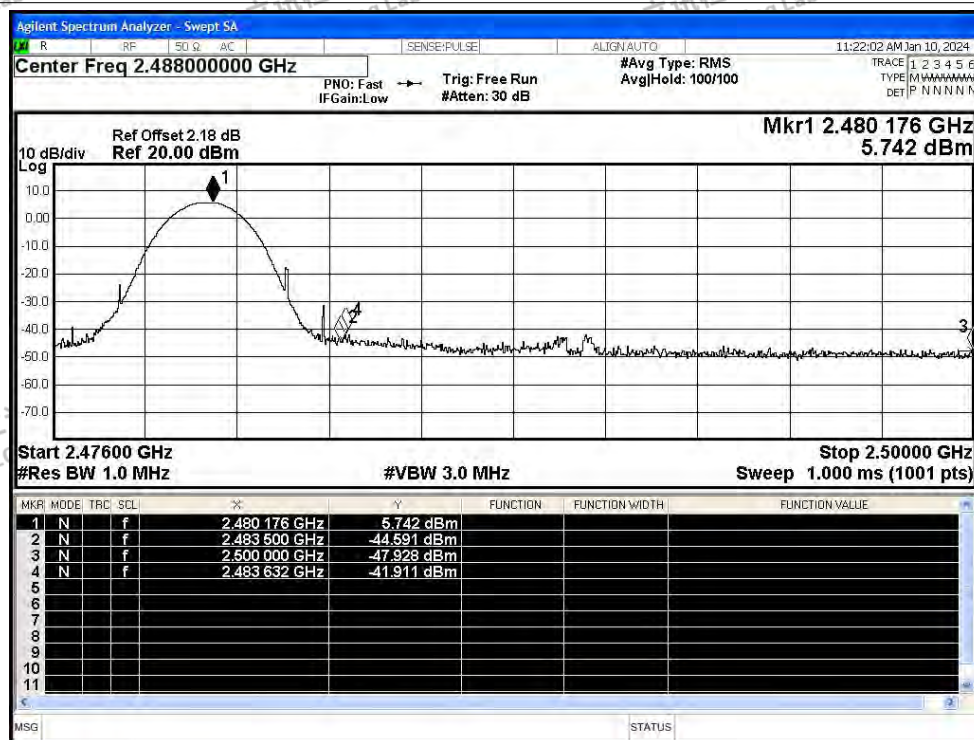
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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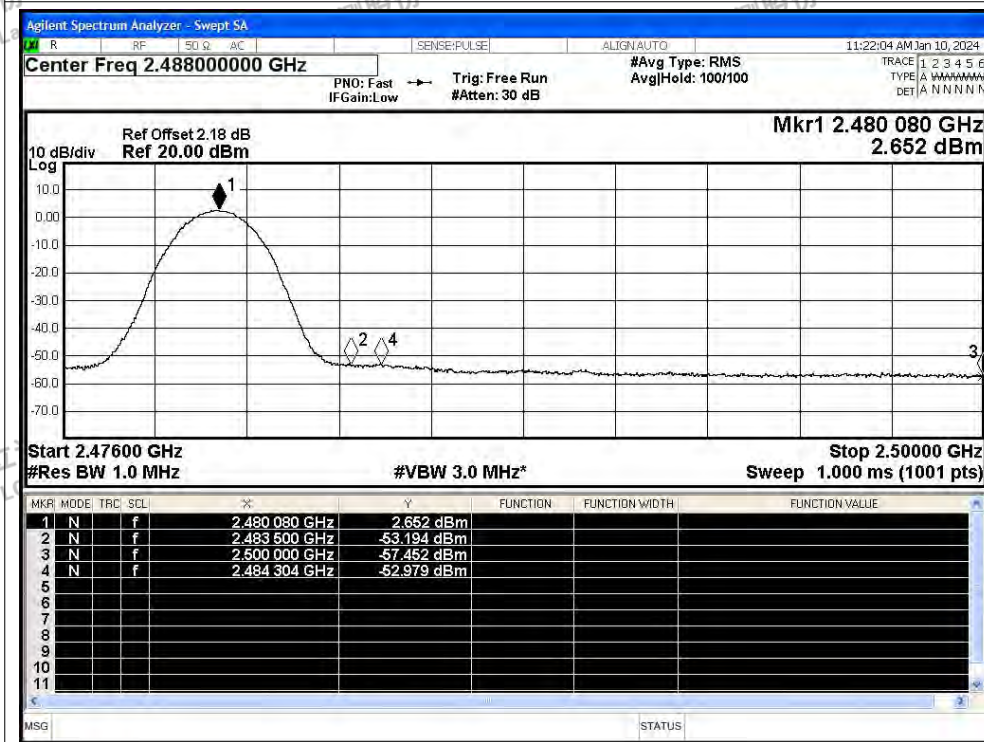
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

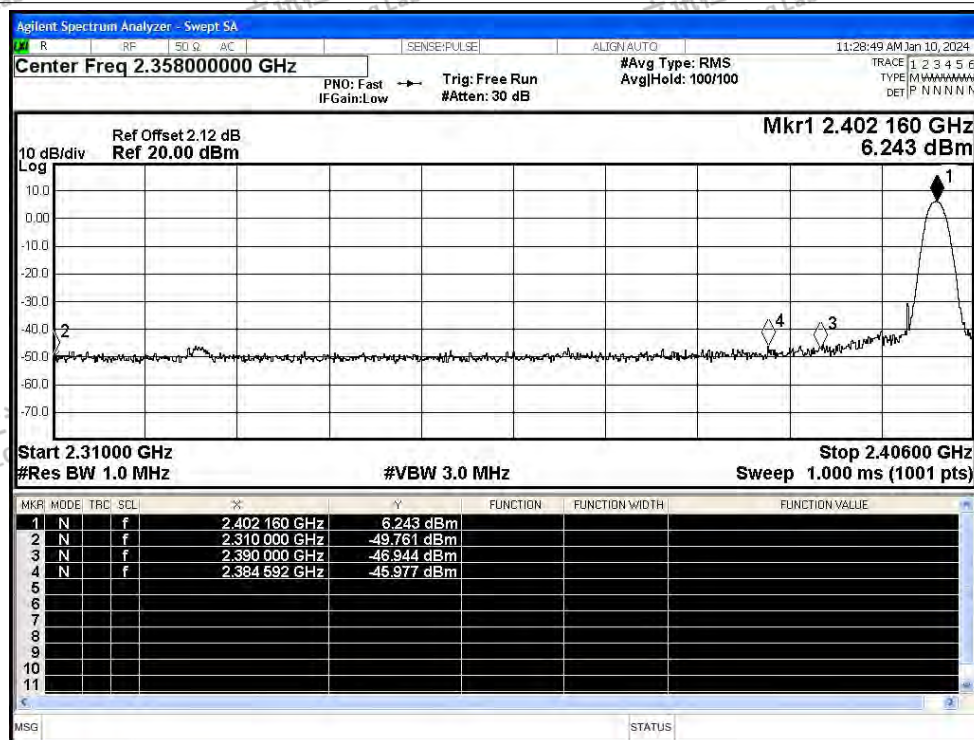
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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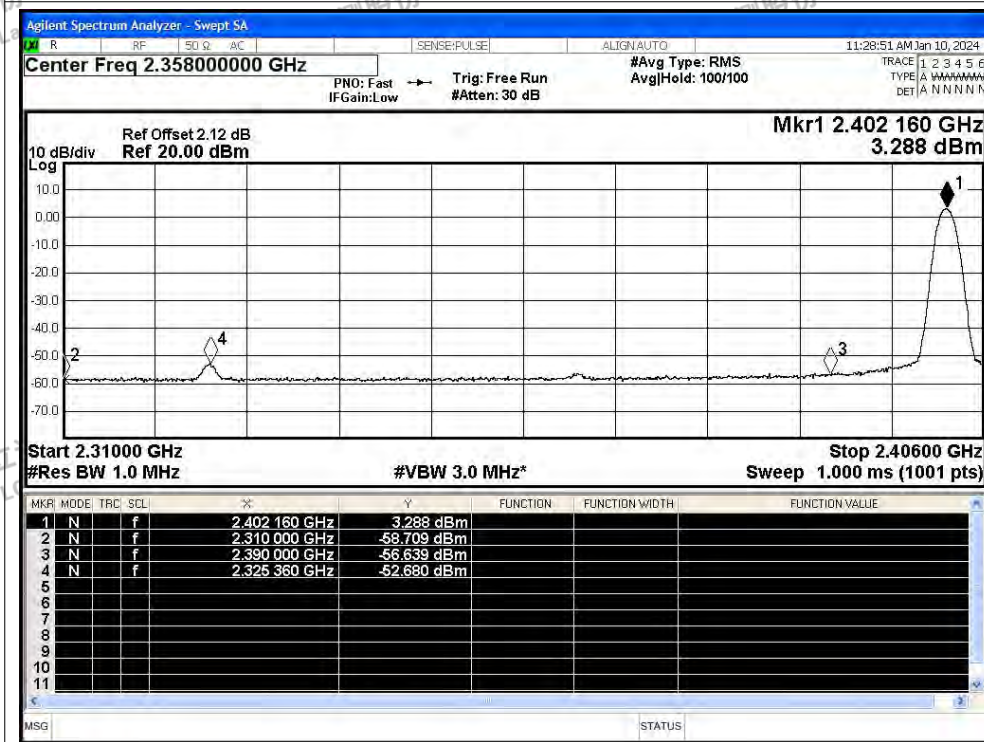
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

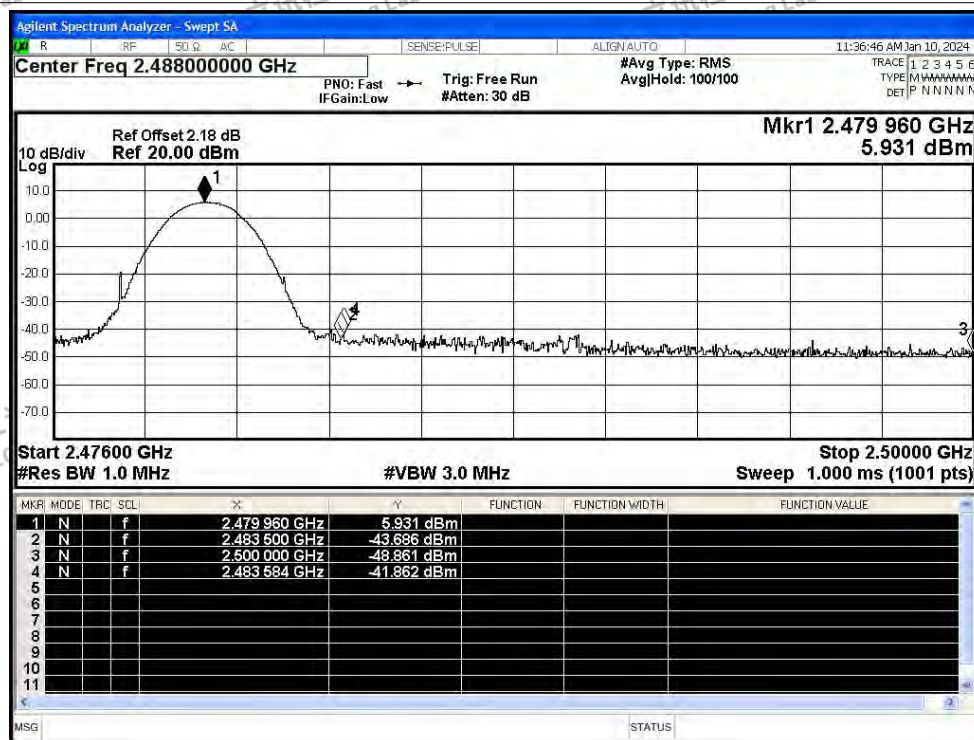
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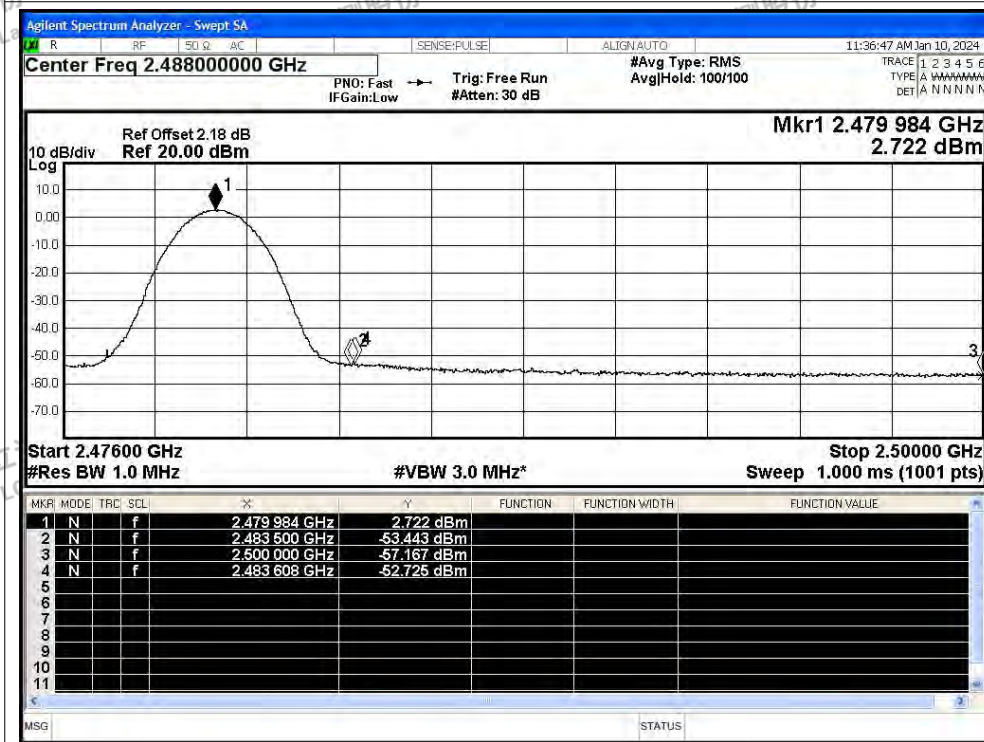
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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