



Appendix A

RF Test Data for BT(Conducted Measurement)

Product Name: Bluetooth speaker water bottle

Test Model: HY-SPEAKER 01

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
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	Ant1	0.954	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.955	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.954	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.289	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.32	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.285	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.285	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.291	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.29	N/A	Pass



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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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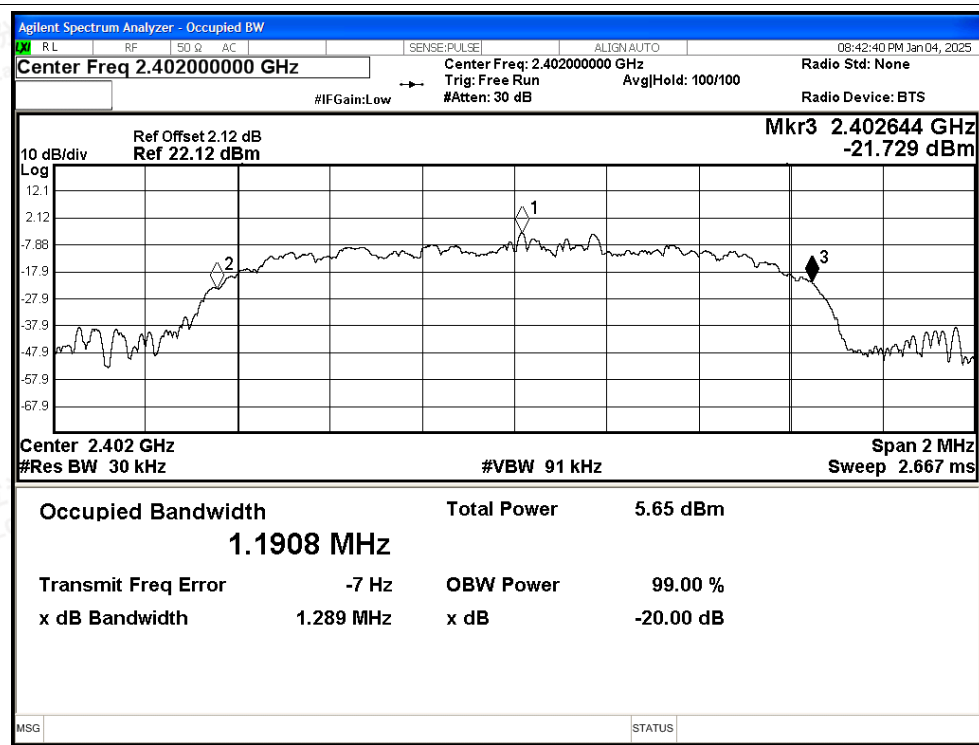
Scan code to check authenticity



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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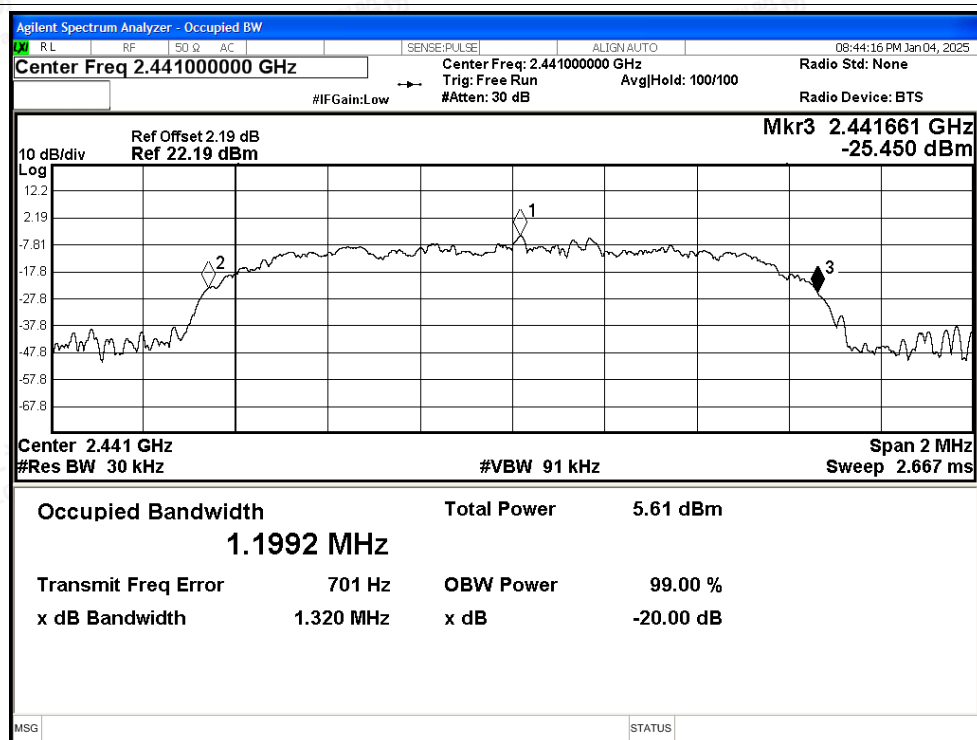
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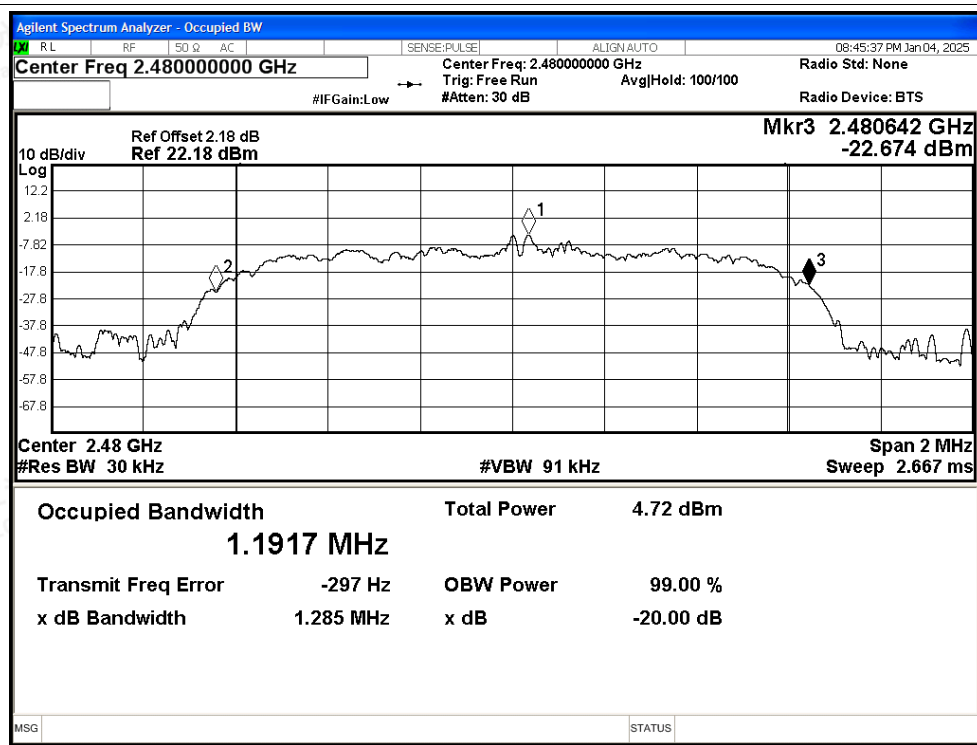
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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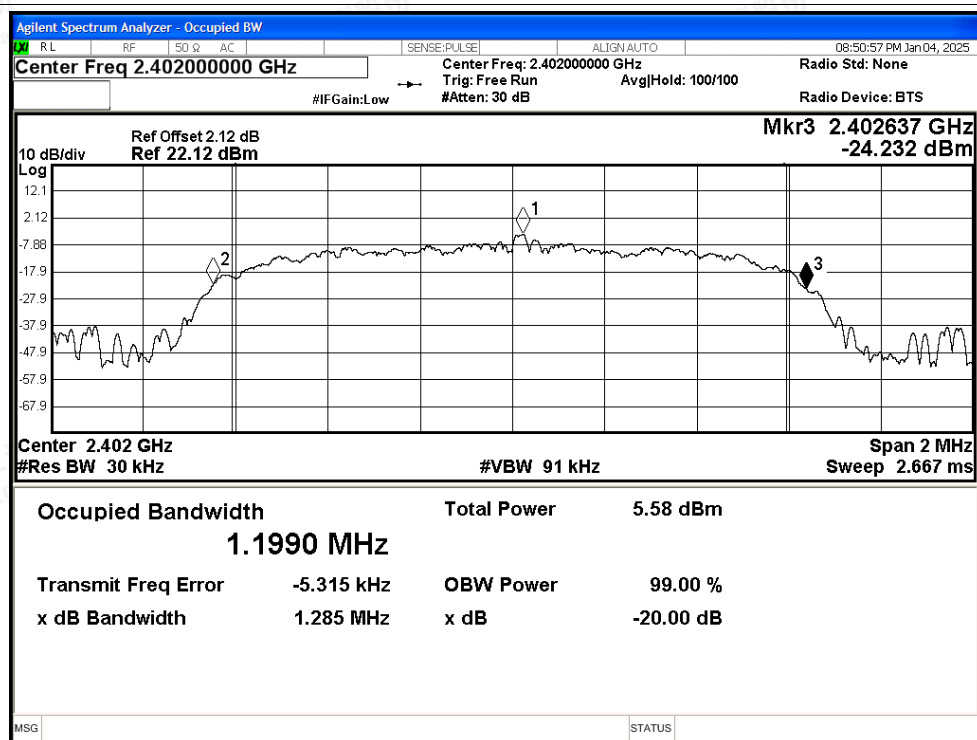
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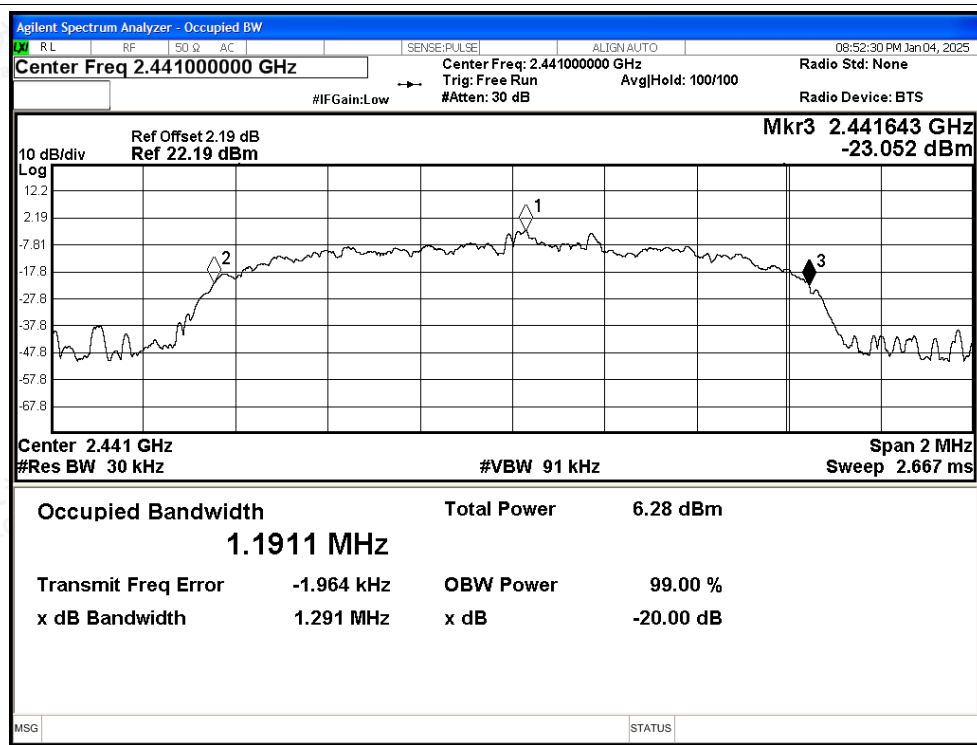
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

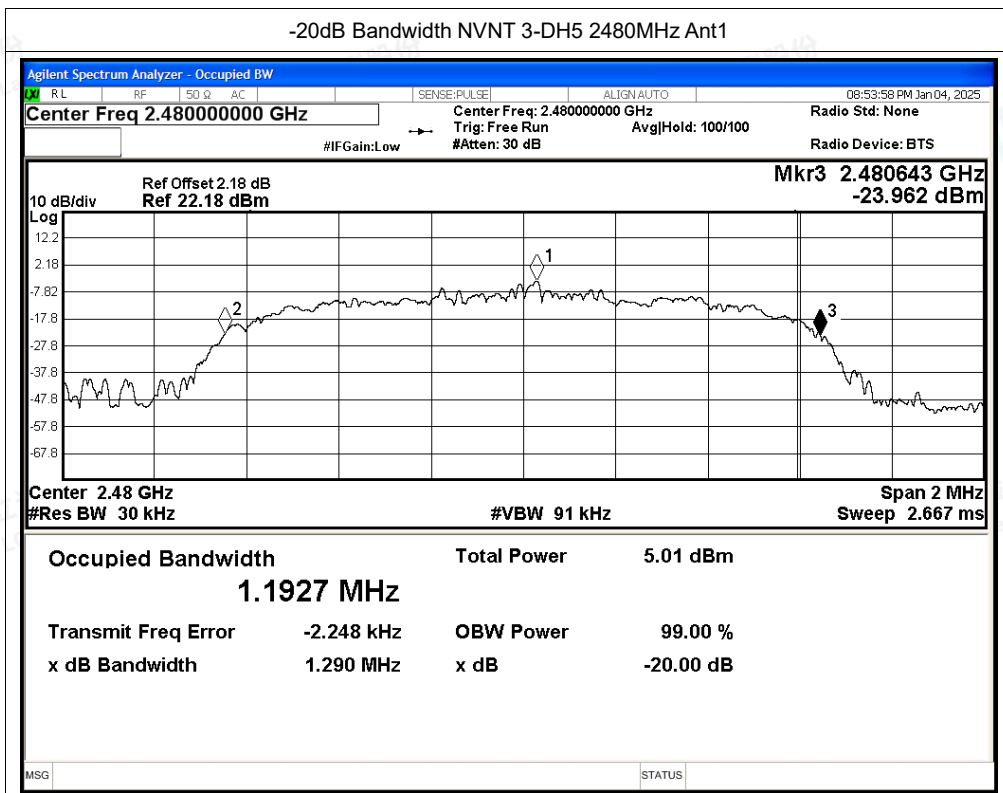


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A.2 Maximum Conducted Output Power

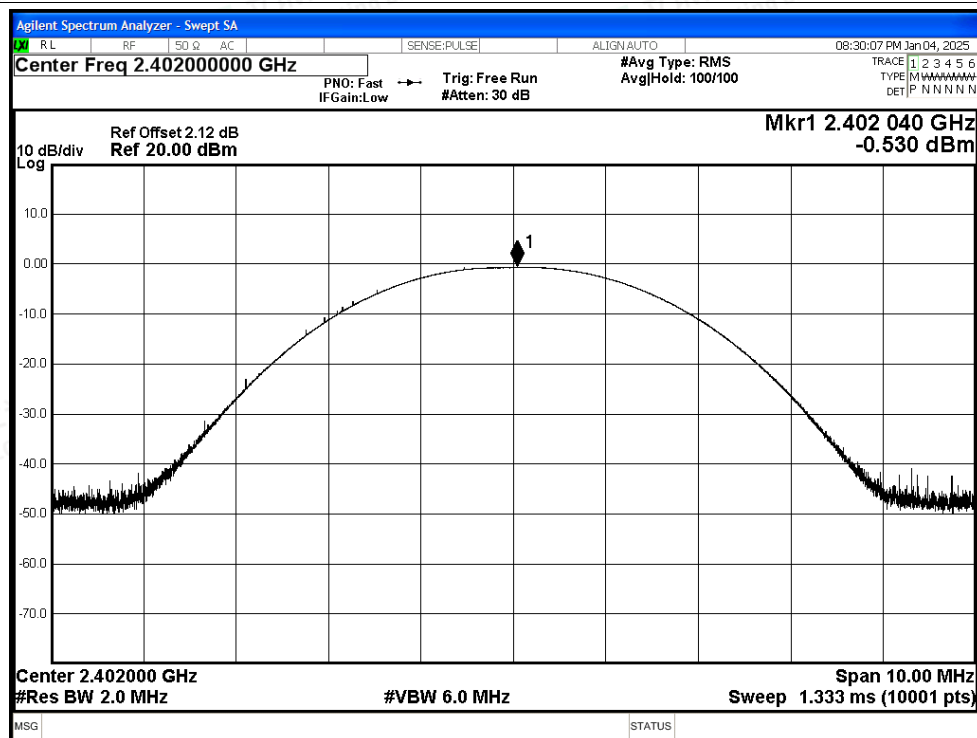
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.53	21	Pass
NVNT	1-DH5	2441	Ant1	-0.47	21	Pass
NVNT	1-DH5	2480	Ant1	-1.61	21	Pass
NVNT	2-DH5	2402	Ant1	1.46	21	Pass
NVNT	2-DH5	2441	Ant1	1.65	21	Pass
NVNT	2-DH5	2480	Ant1	0.48	21	Pass
NVNT	3-DH5	2402	Ant1	1.85	21	Pass
NVNT	3-DH5	2441	Ant1	2.02	21	Pass
NVNT	3-DH5	2480	Ant1	0.81	21	Pass



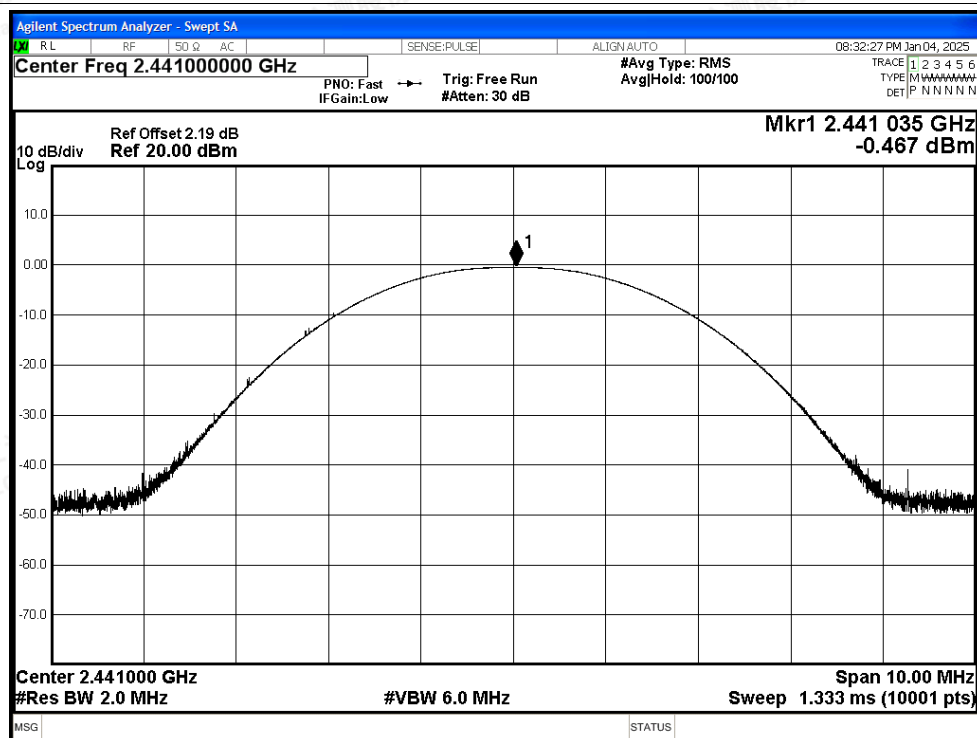


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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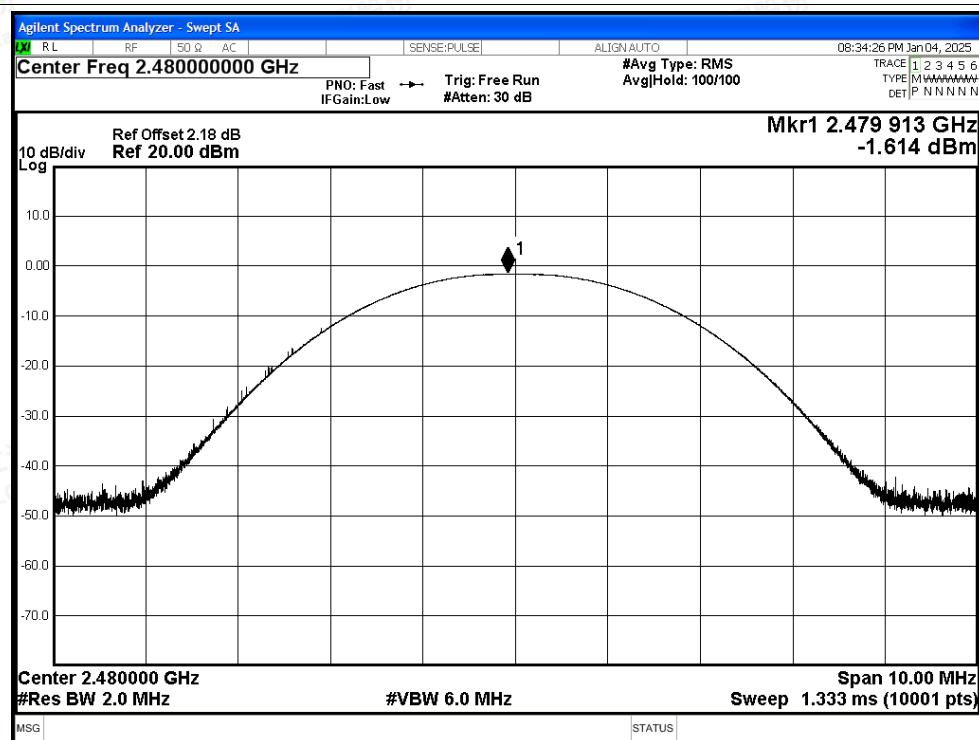
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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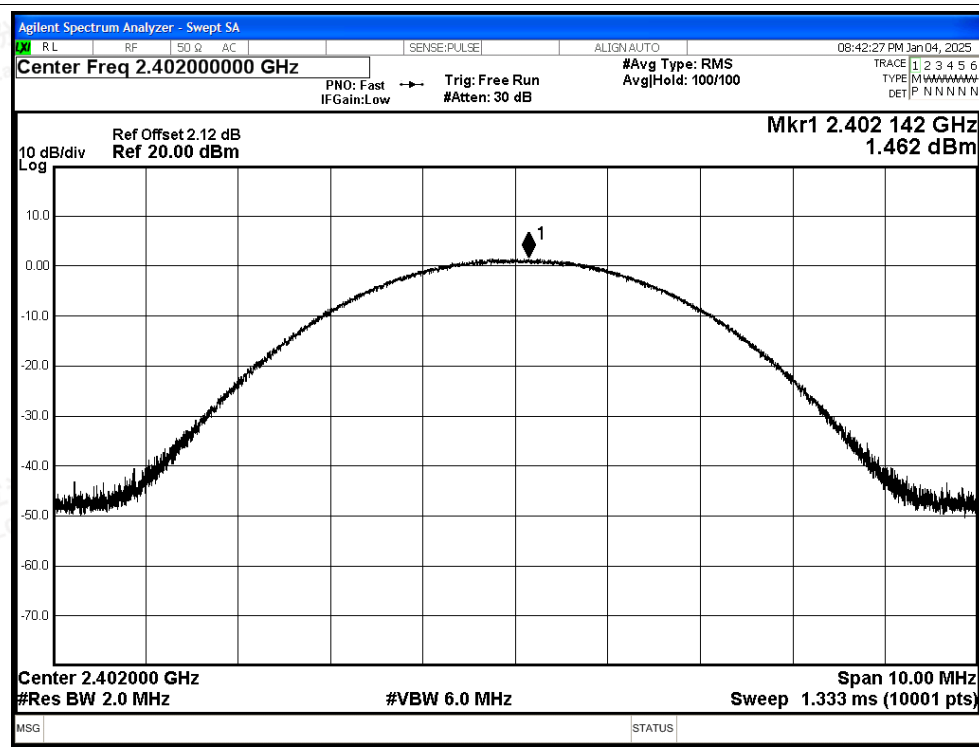
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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1

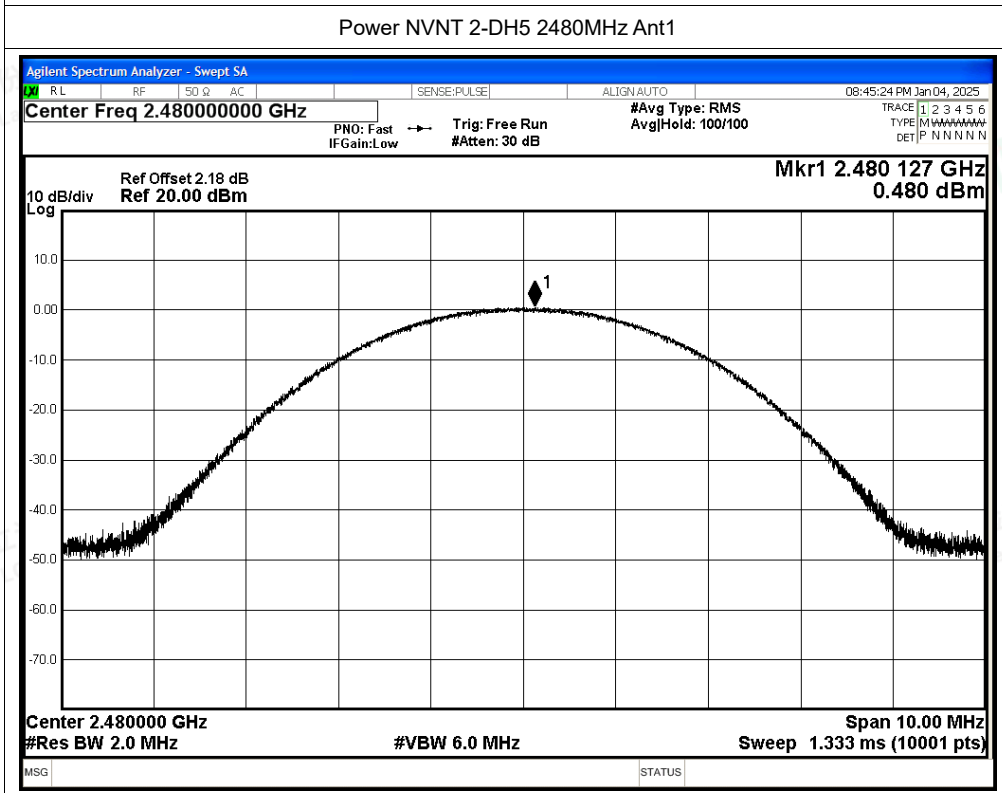
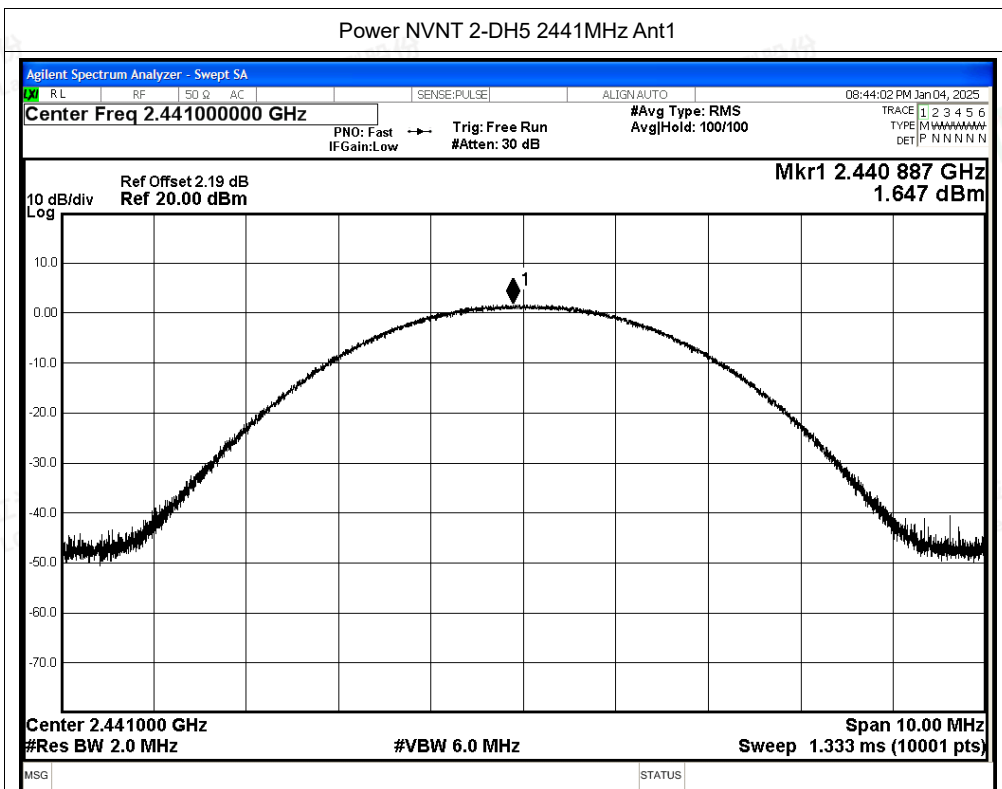


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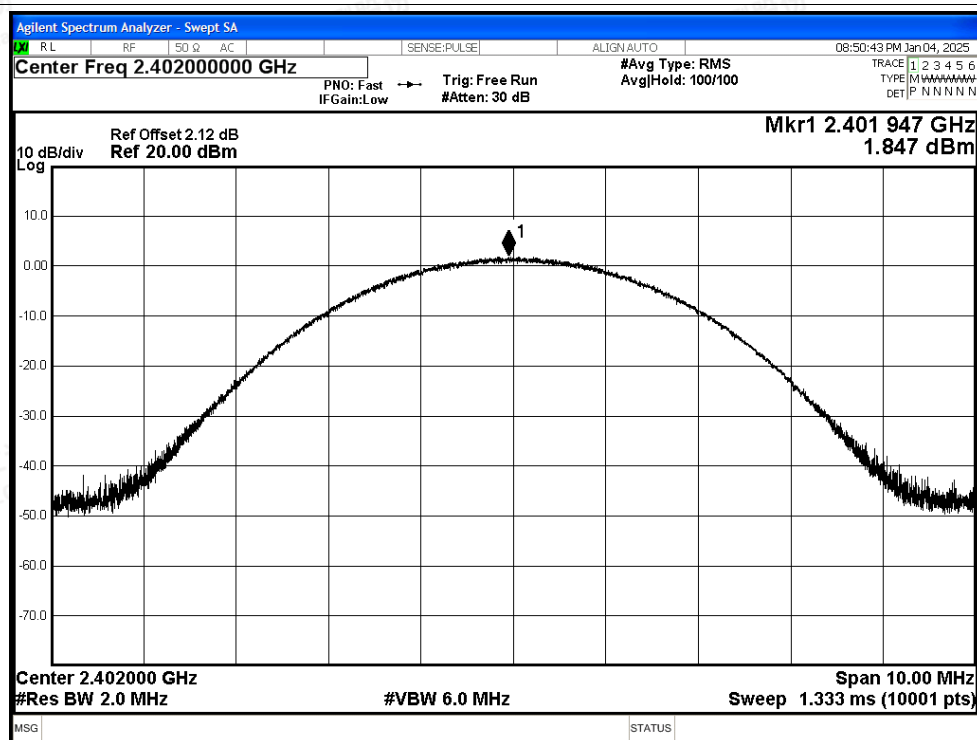
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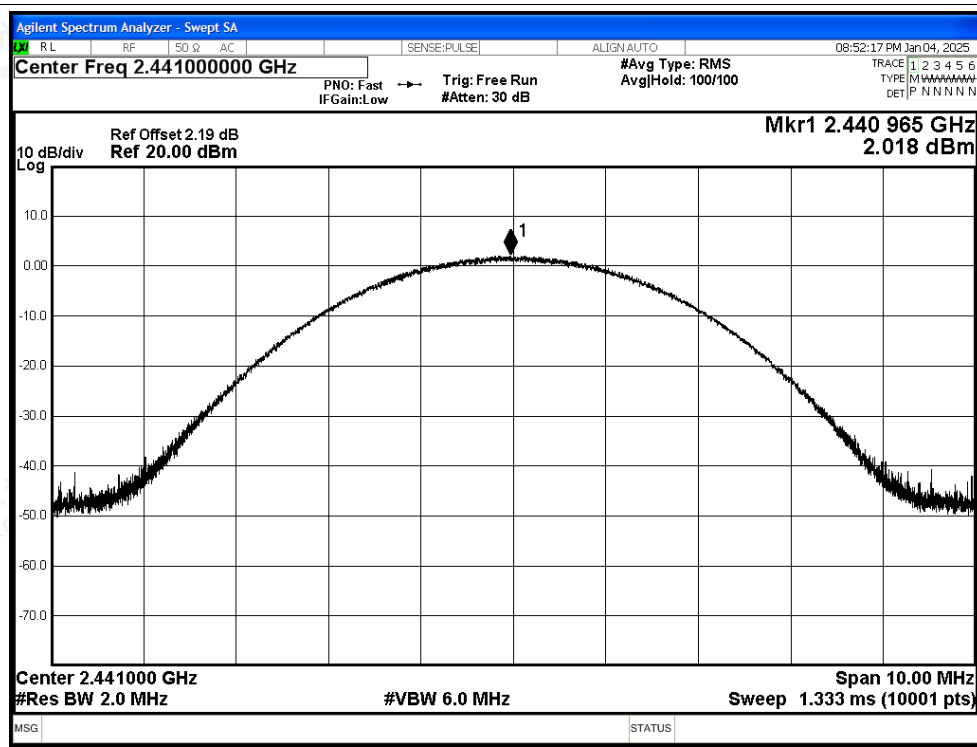




Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

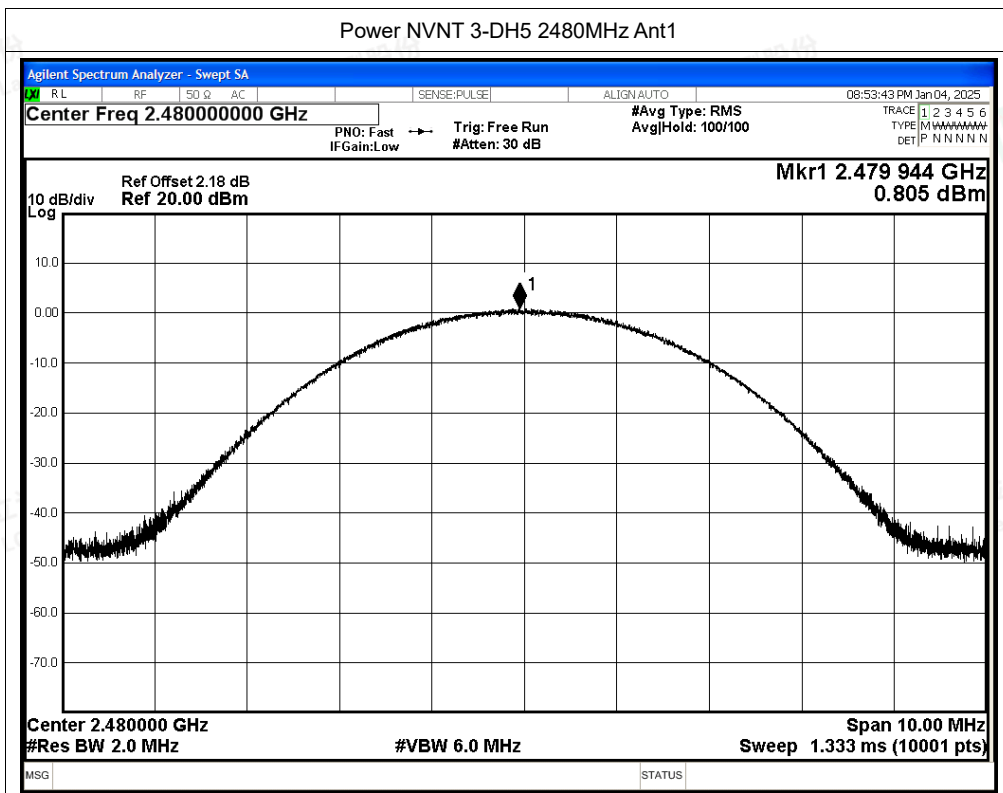


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A.3 Carrier Frequencies Separation

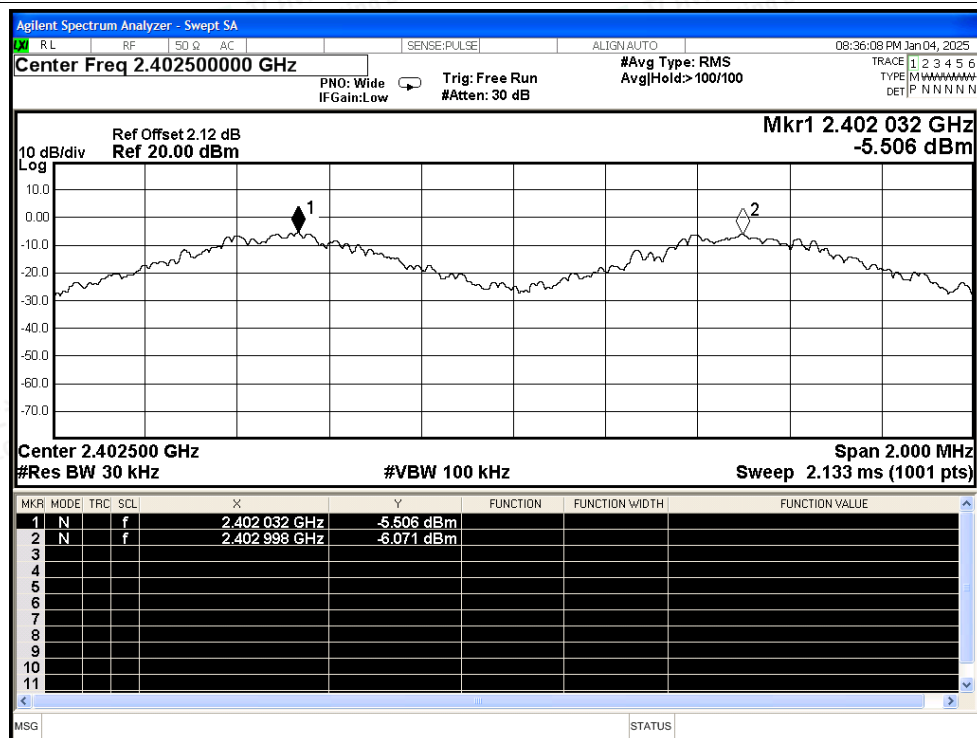
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.032	2402.998	0.966	0.637	Pass
NVNT	2-DH5	Ant1	2402.042	2403.006	0.964	0.880	Pass
NVNT	3-DH5	Ant1	2402.01	2403.162	1.152	0.861	Pass



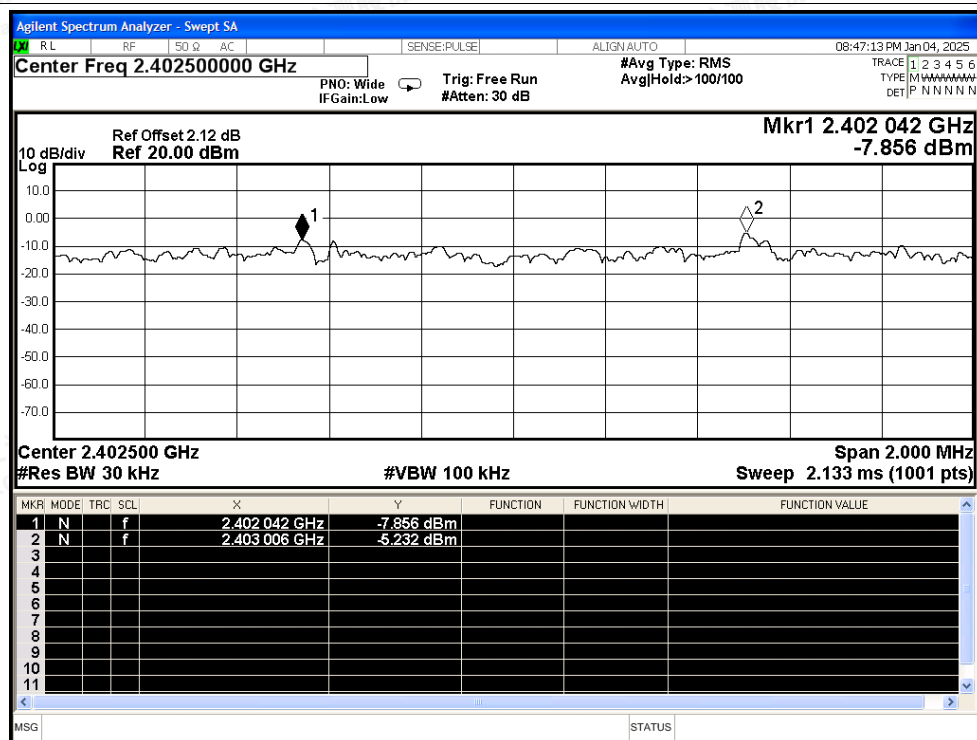


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

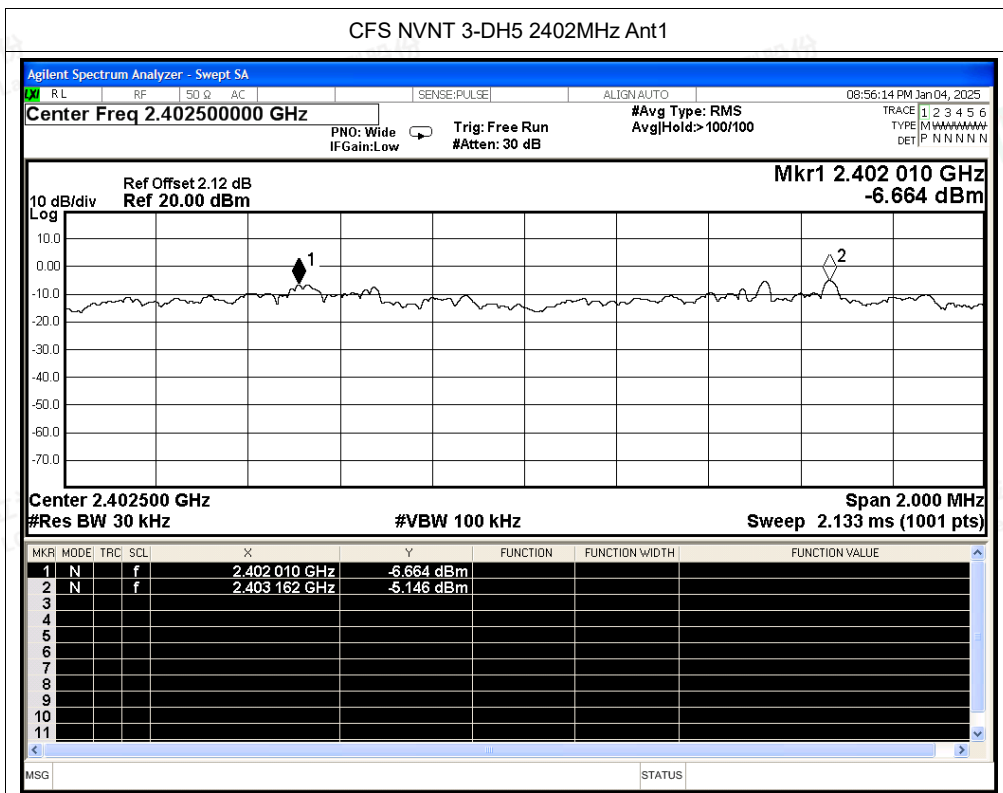


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A.4 Dwell Time

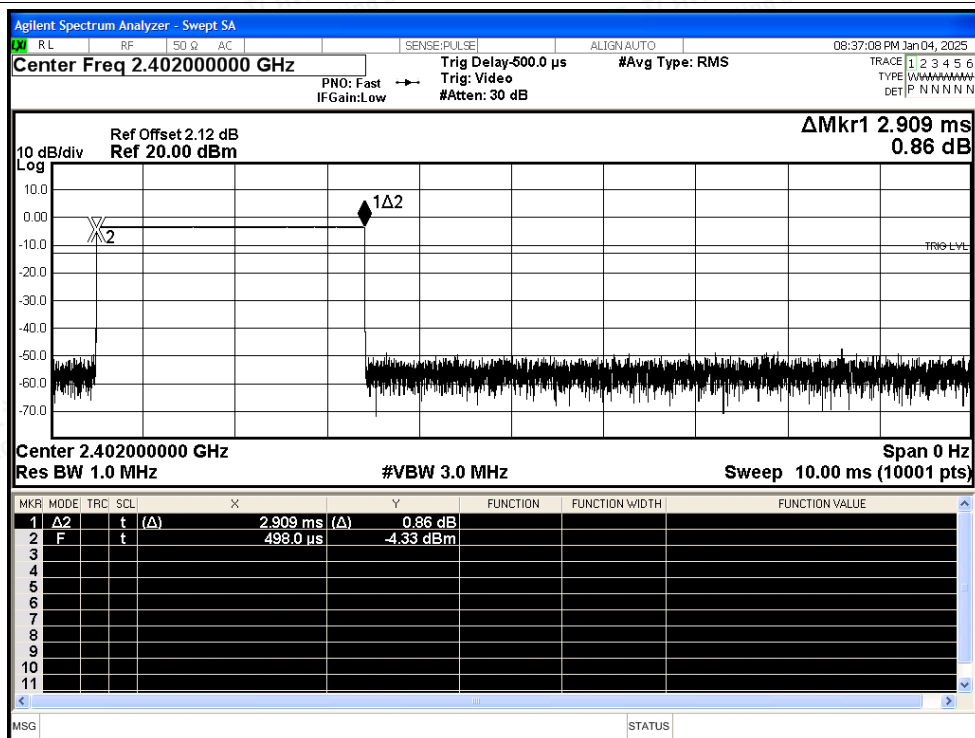
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.909	319.99	110	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	324.576	112	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	286.803	99	31600	400	Pass



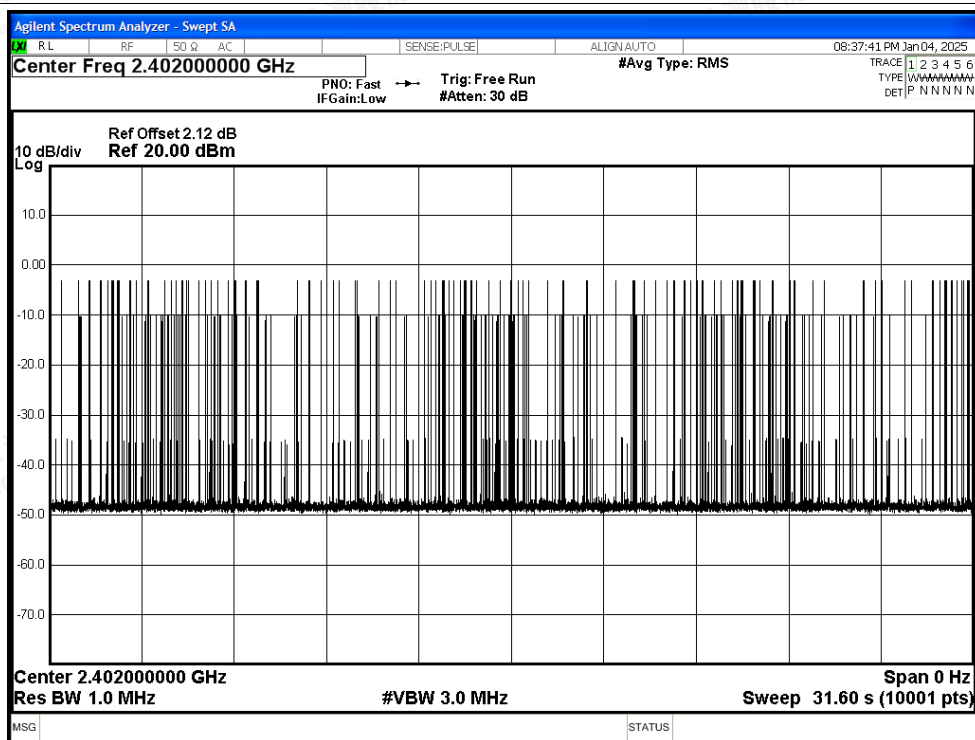


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

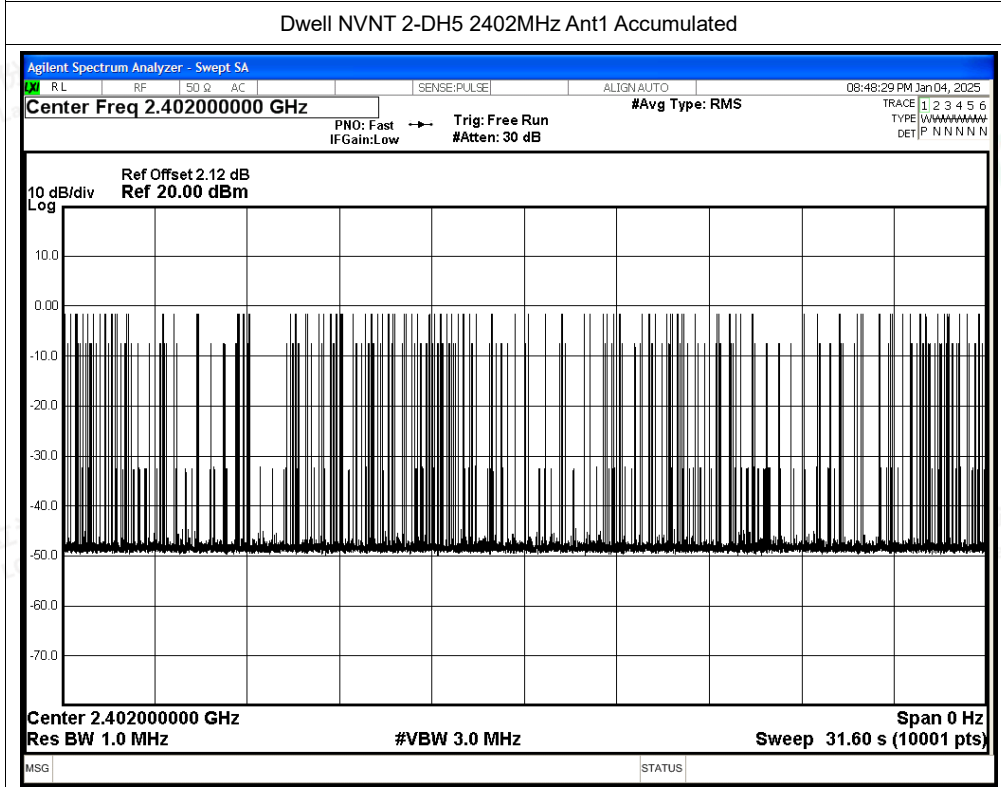
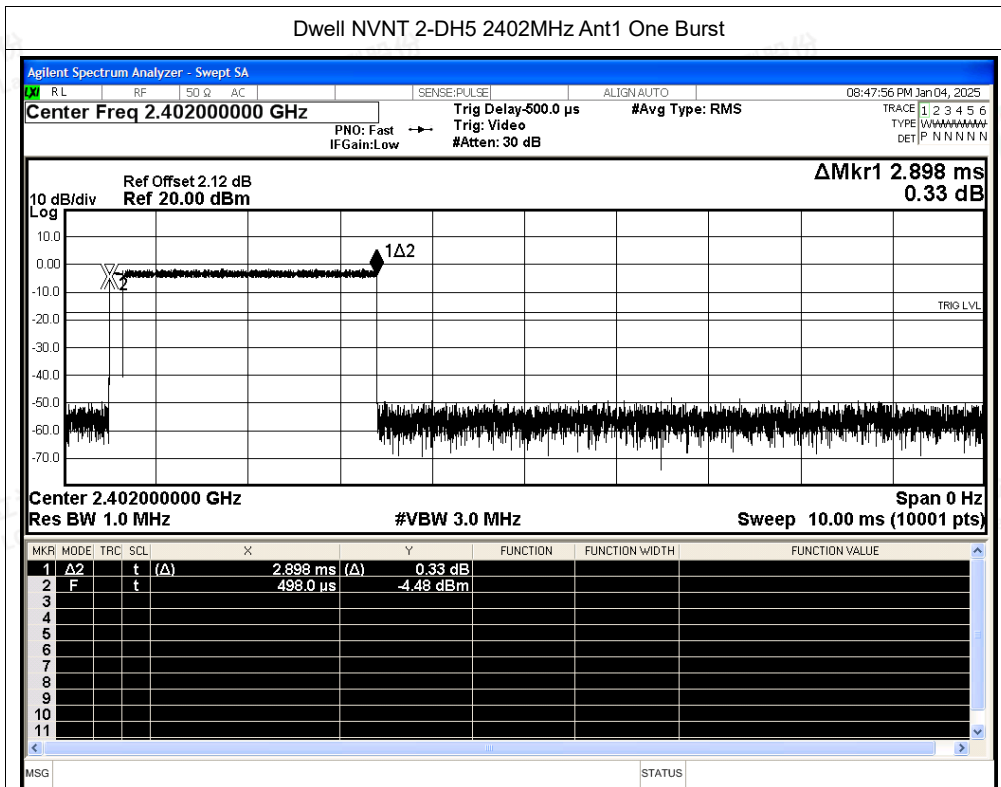


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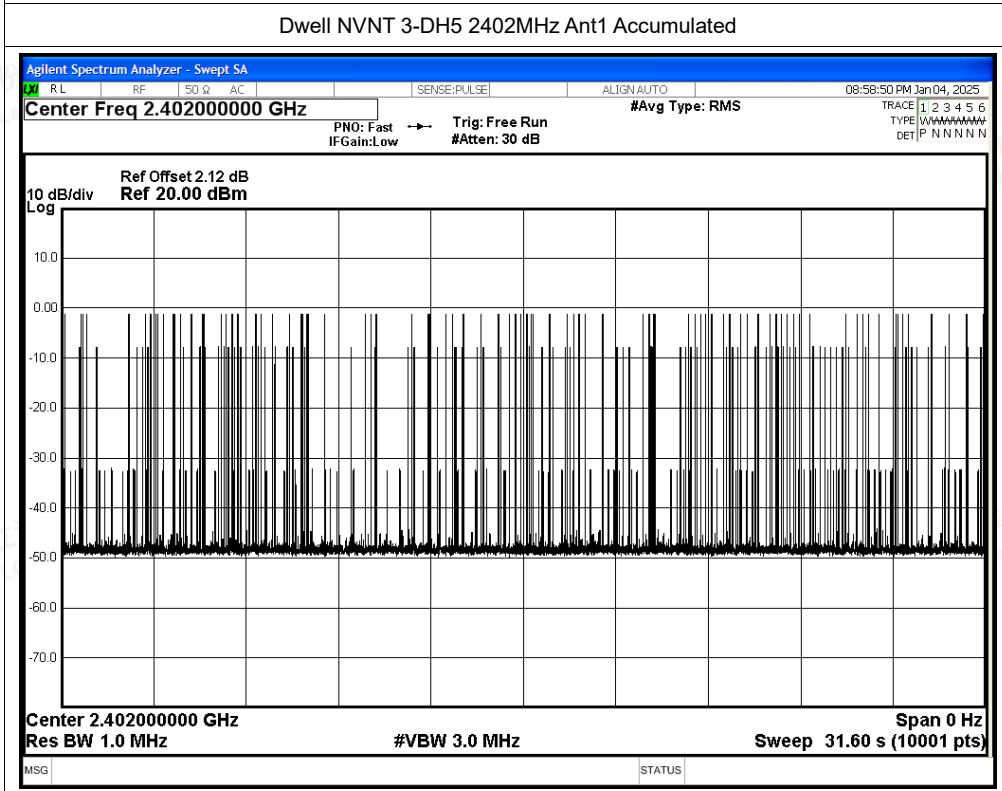
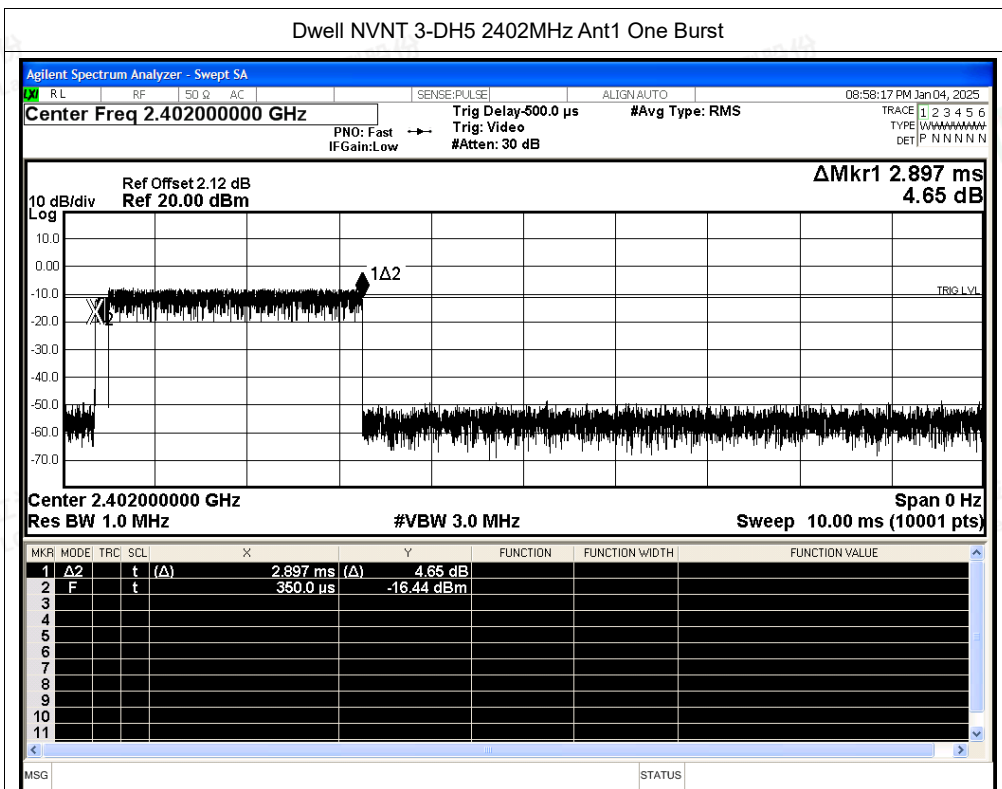


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A.5 Number of Hopping Channel

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

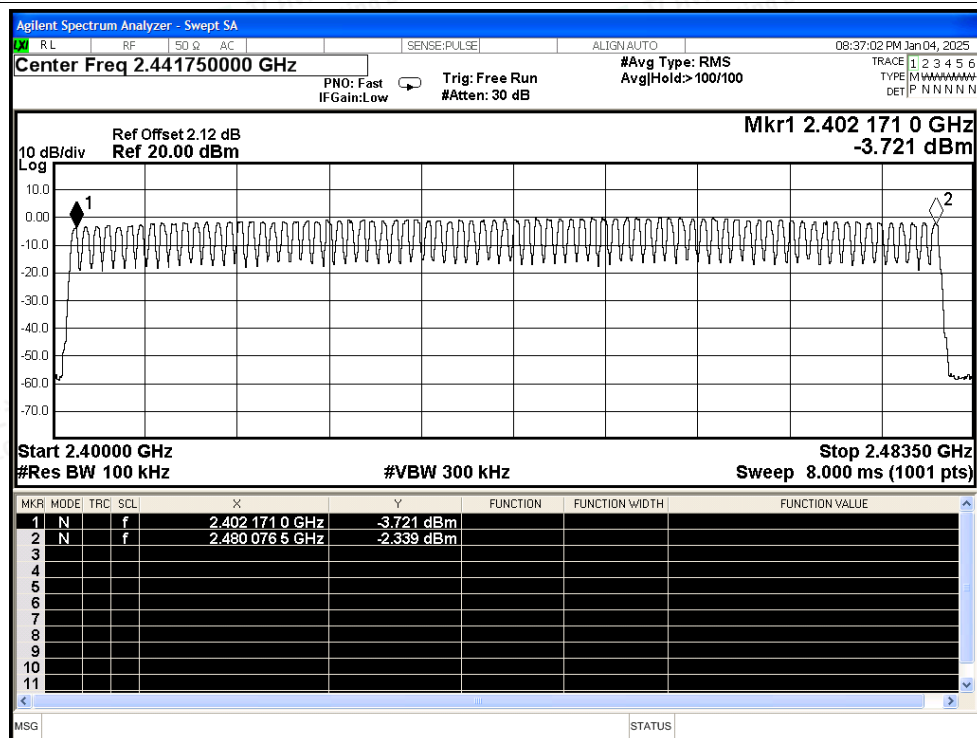


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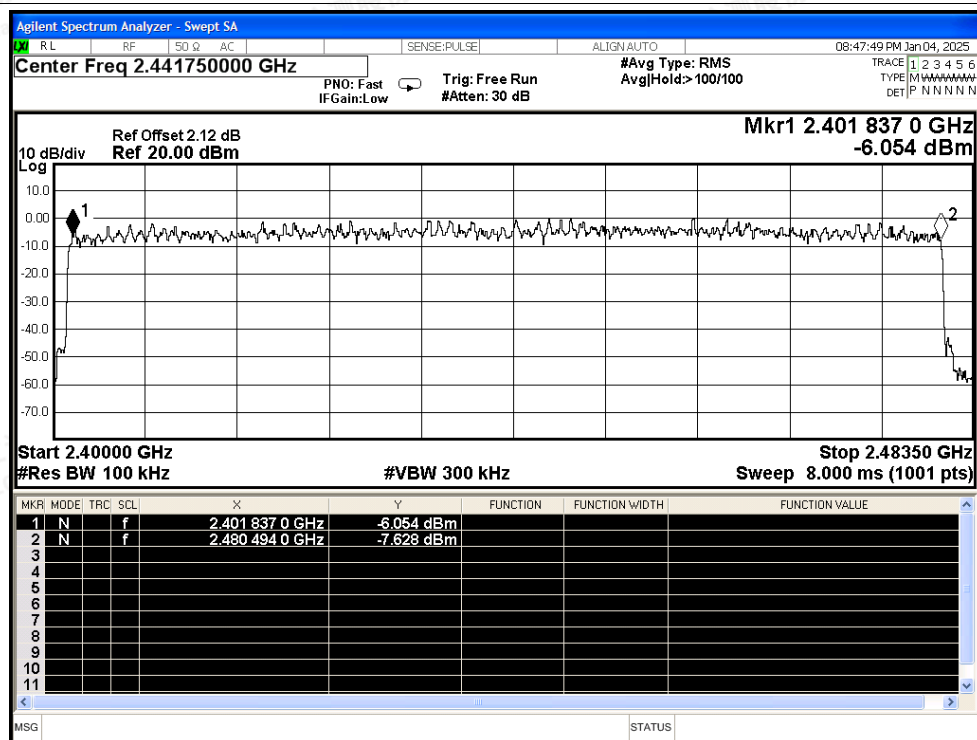


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

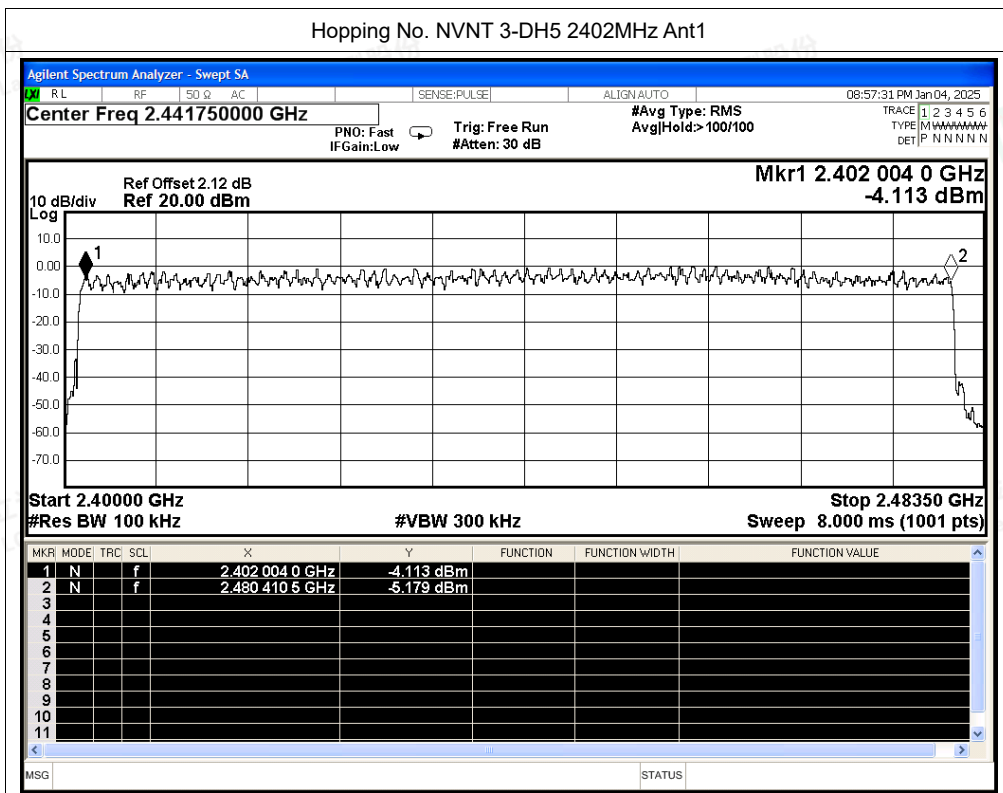


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A.6 Band Edge

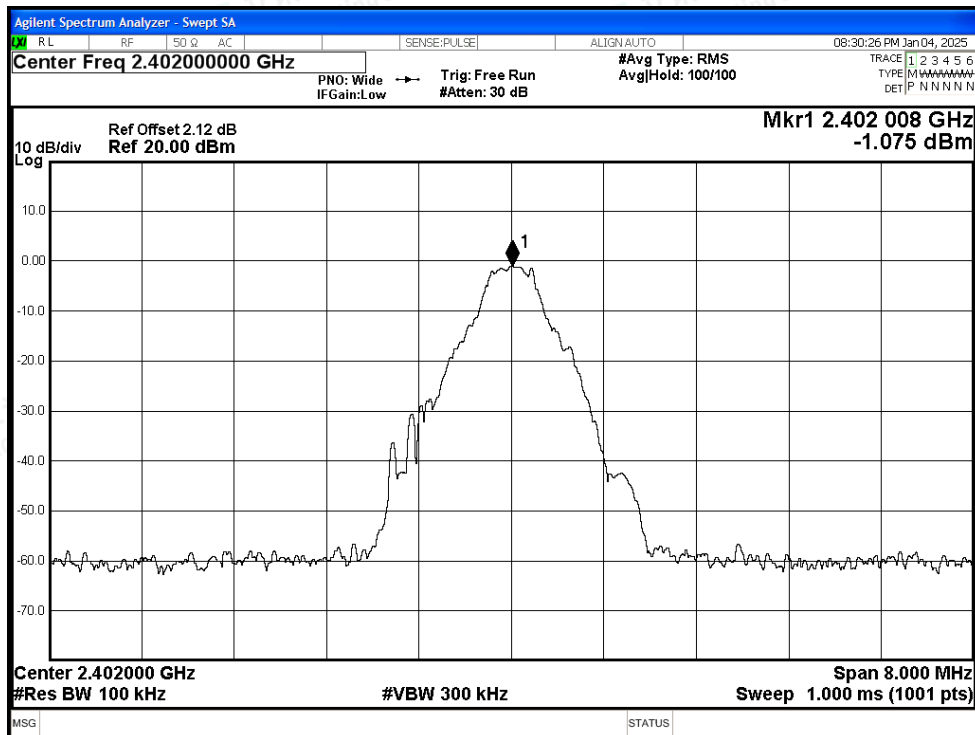
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.12	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.59	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.16	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.2	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-49.52	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.02	-20	Pass



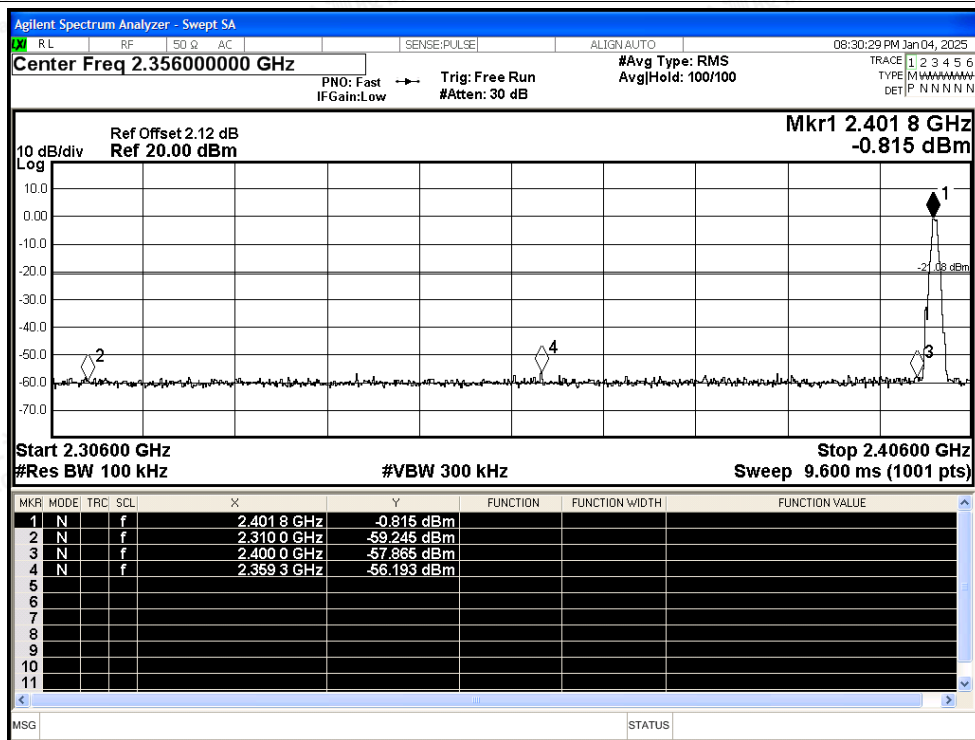


Test Graphs

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



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

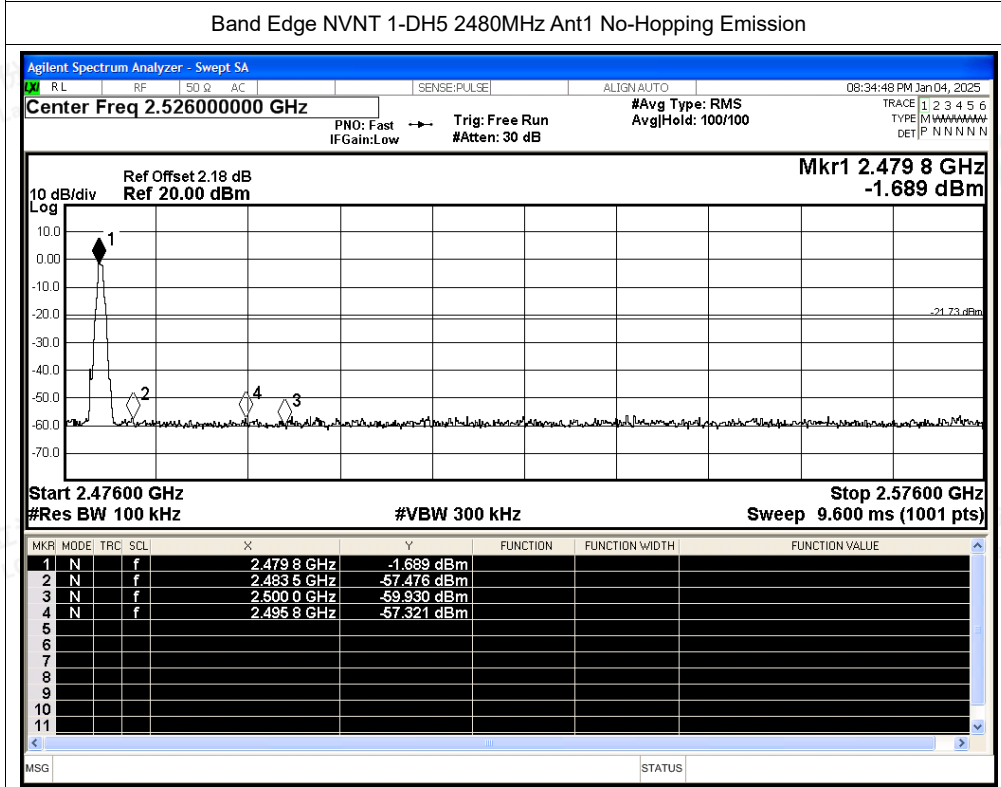
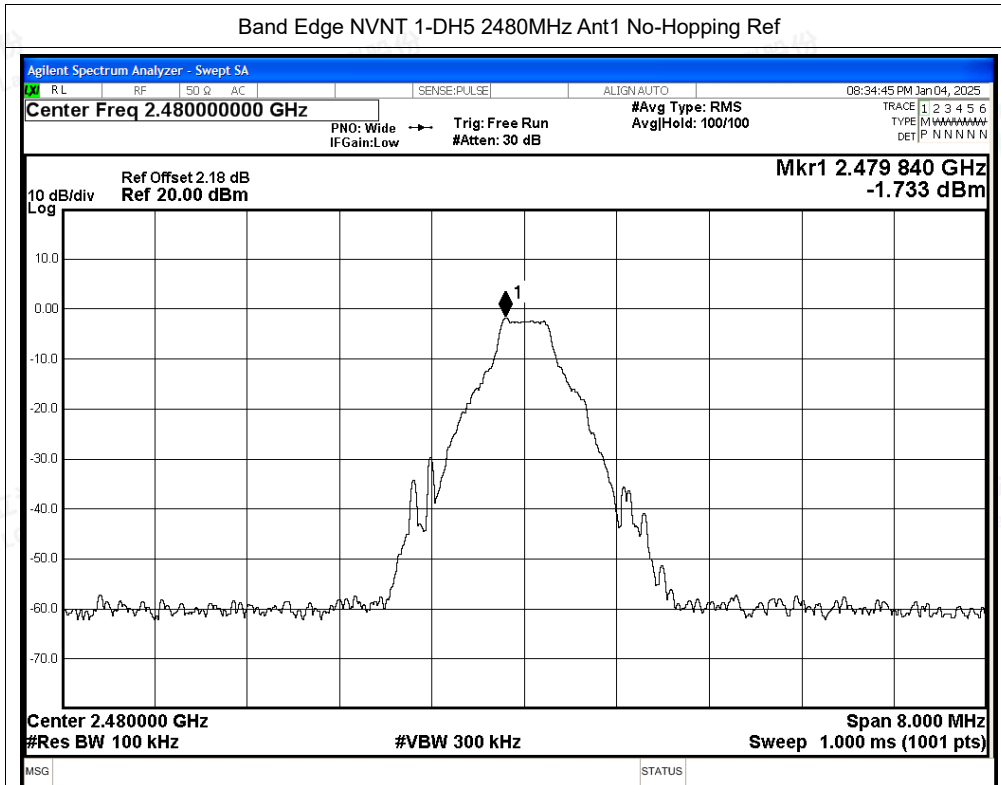


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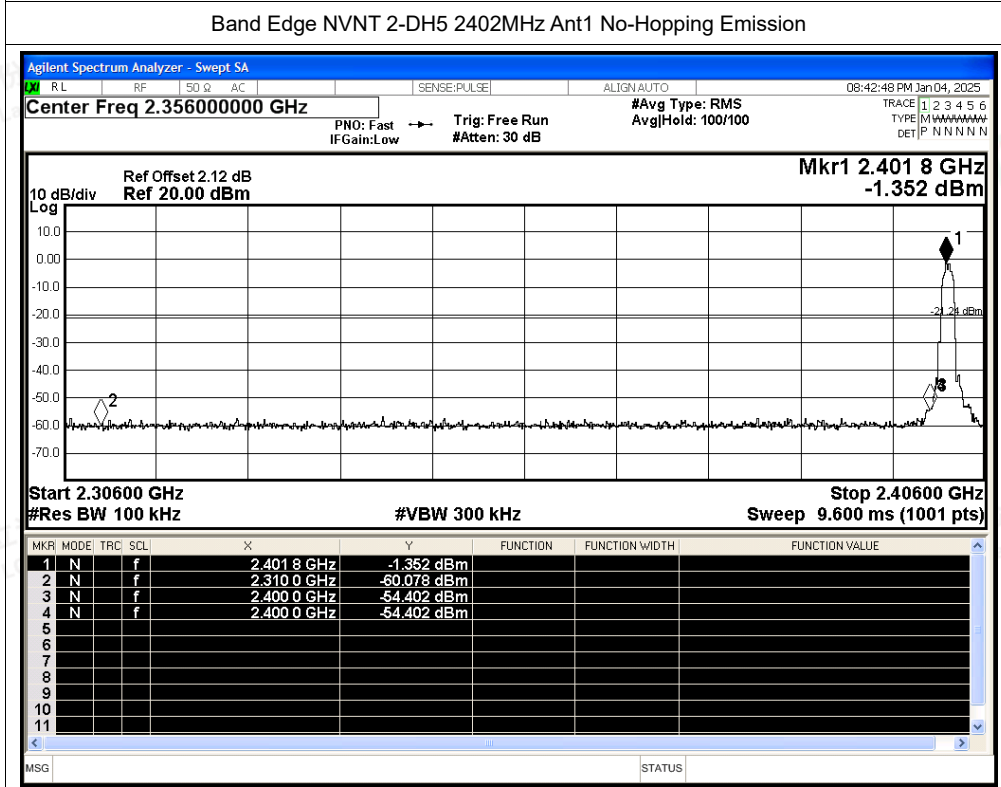
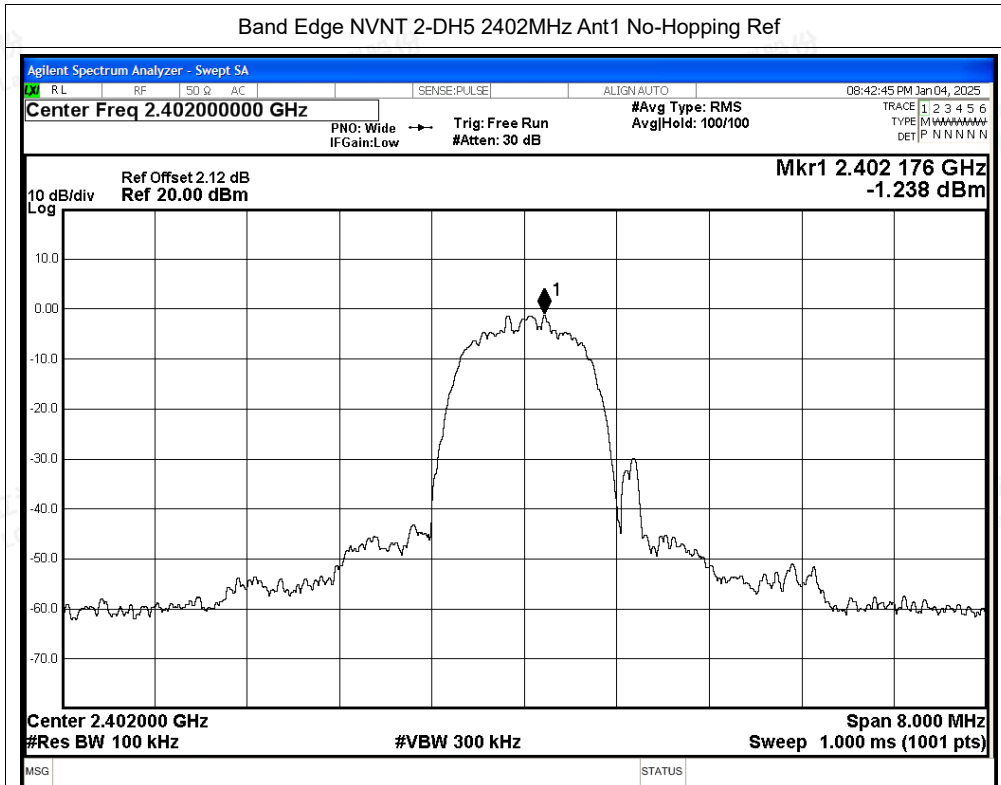


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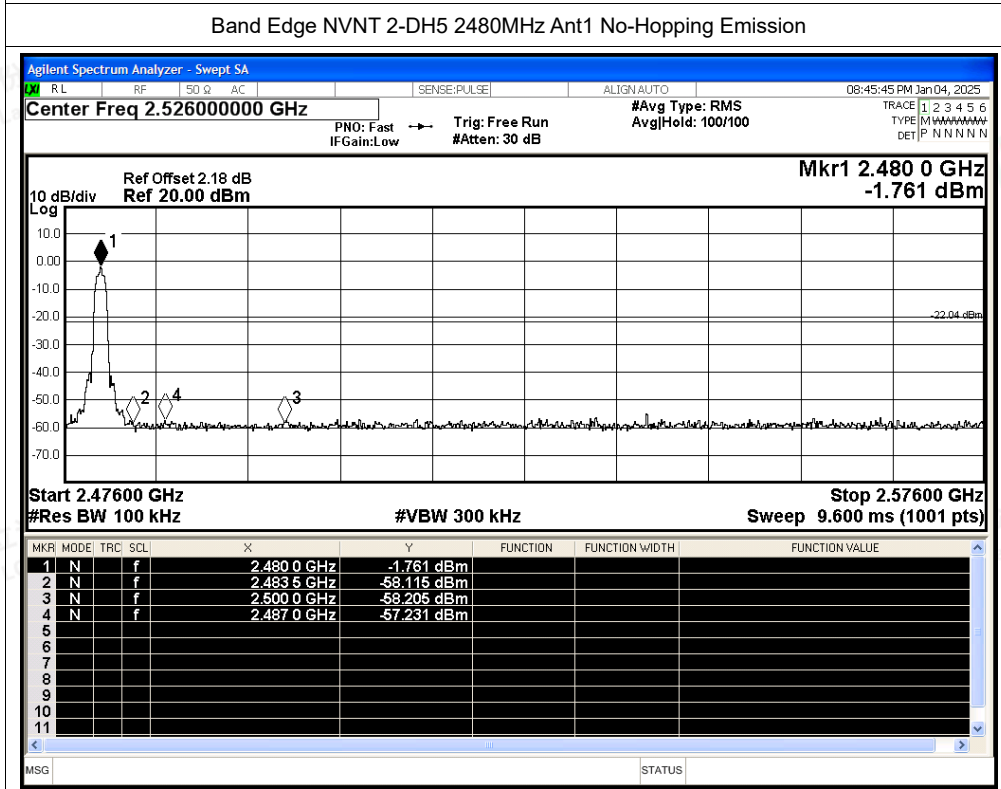
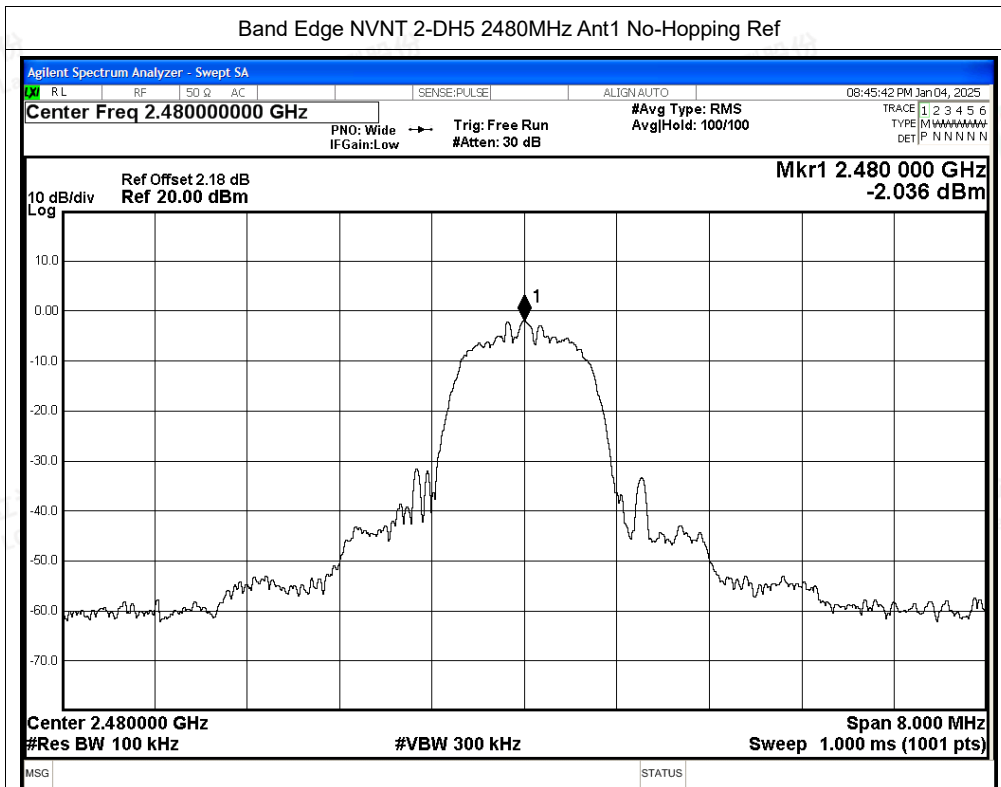


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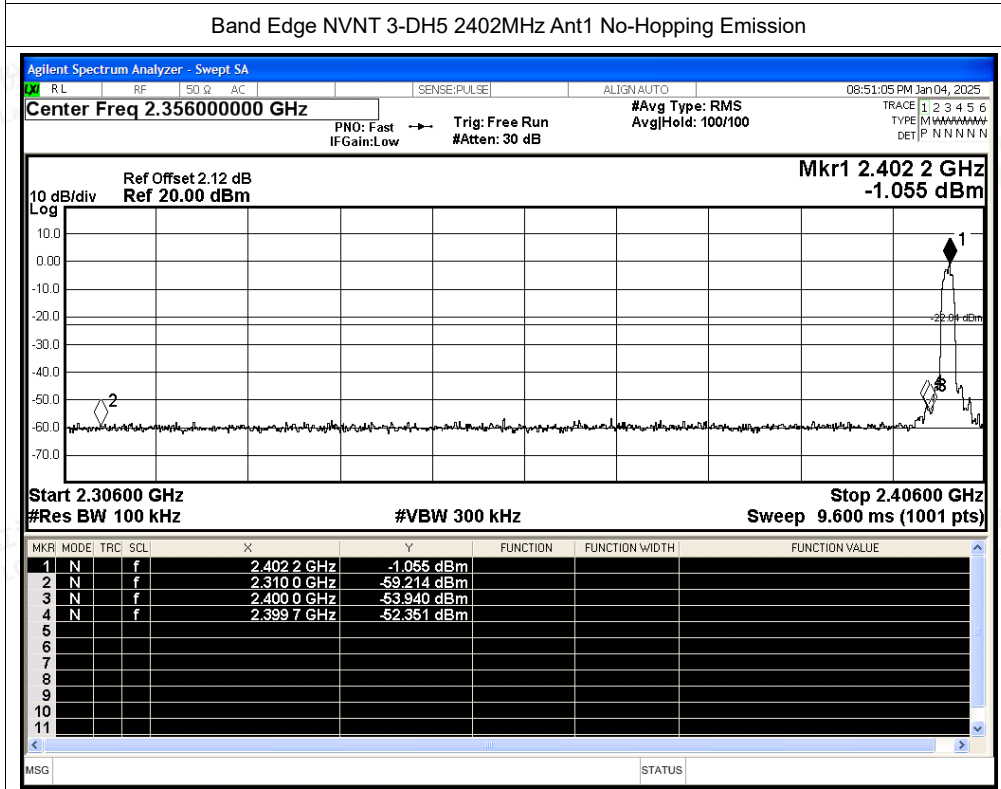
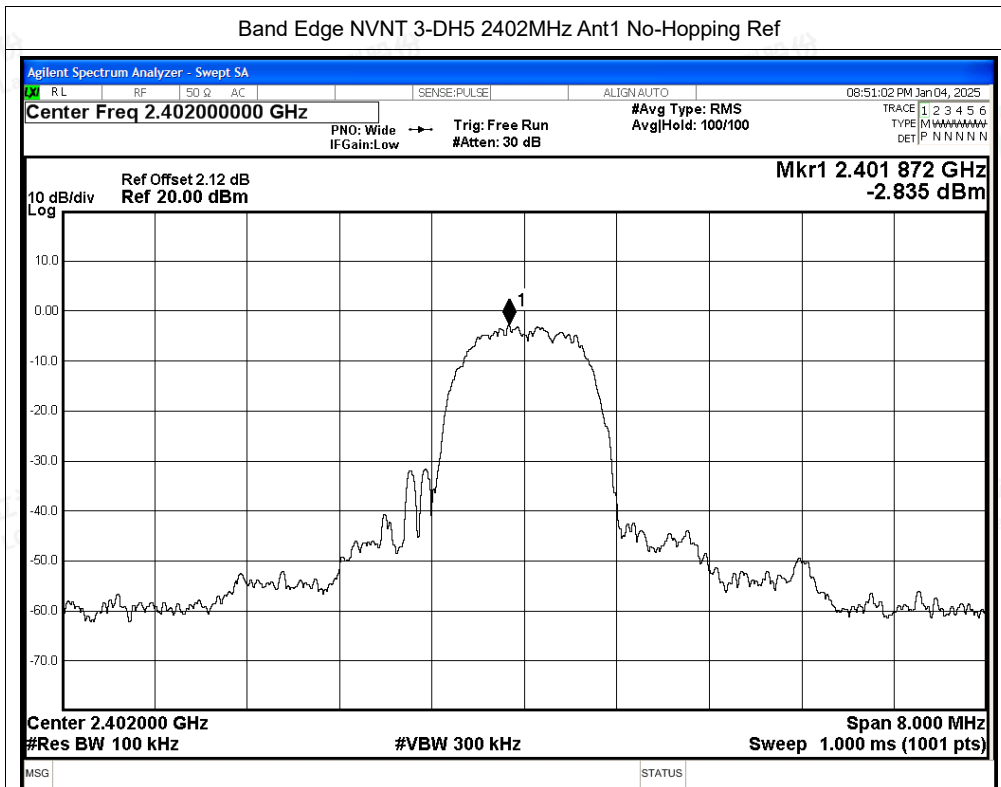


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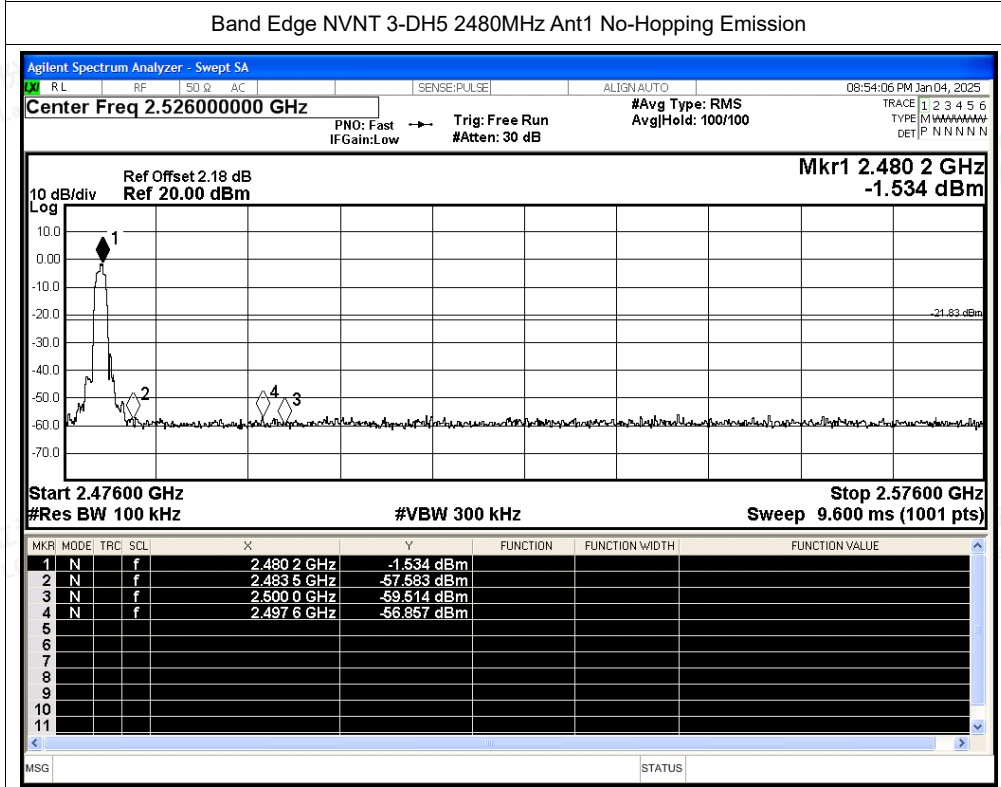
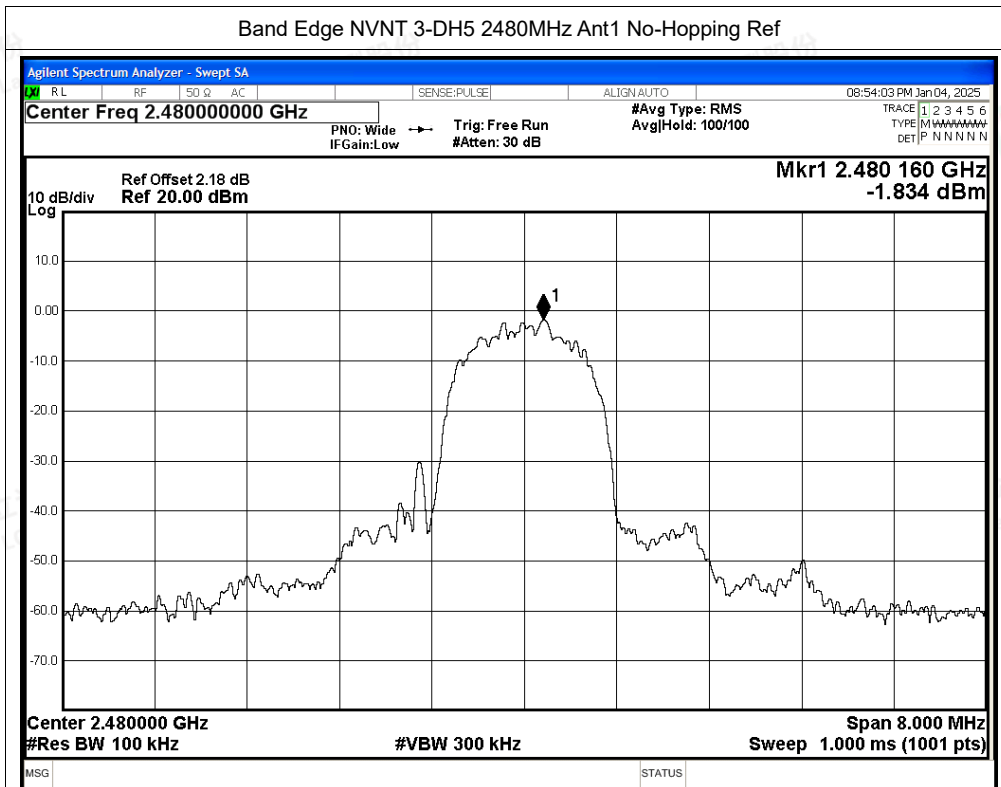


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(Hopping)

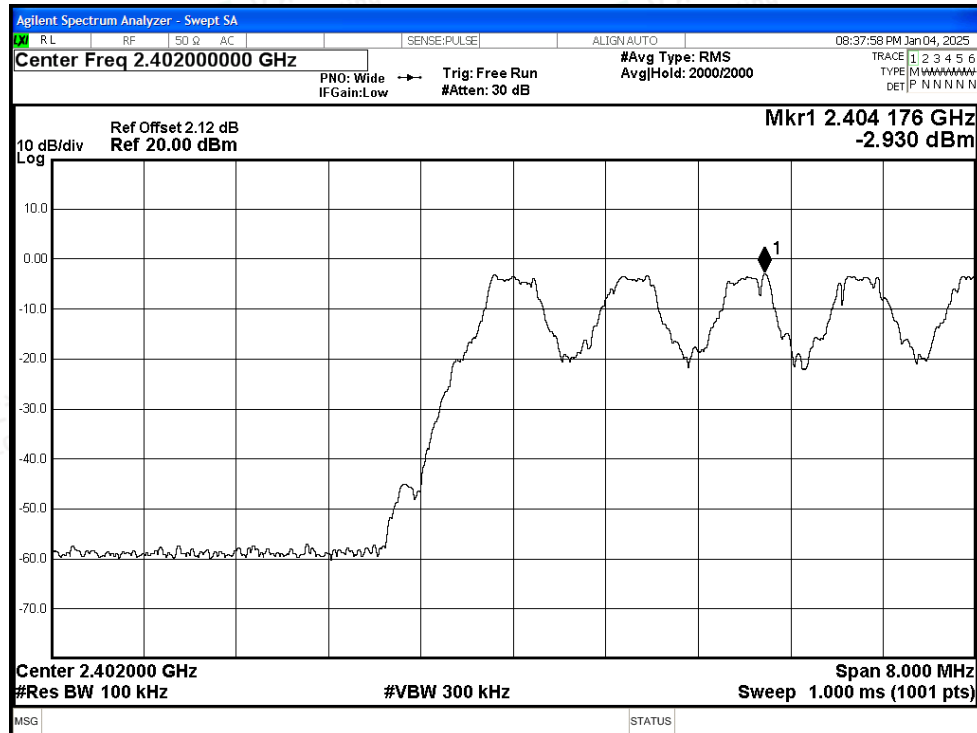
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.33	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.46	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.01	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.3	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.96	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.33	-20	Pass



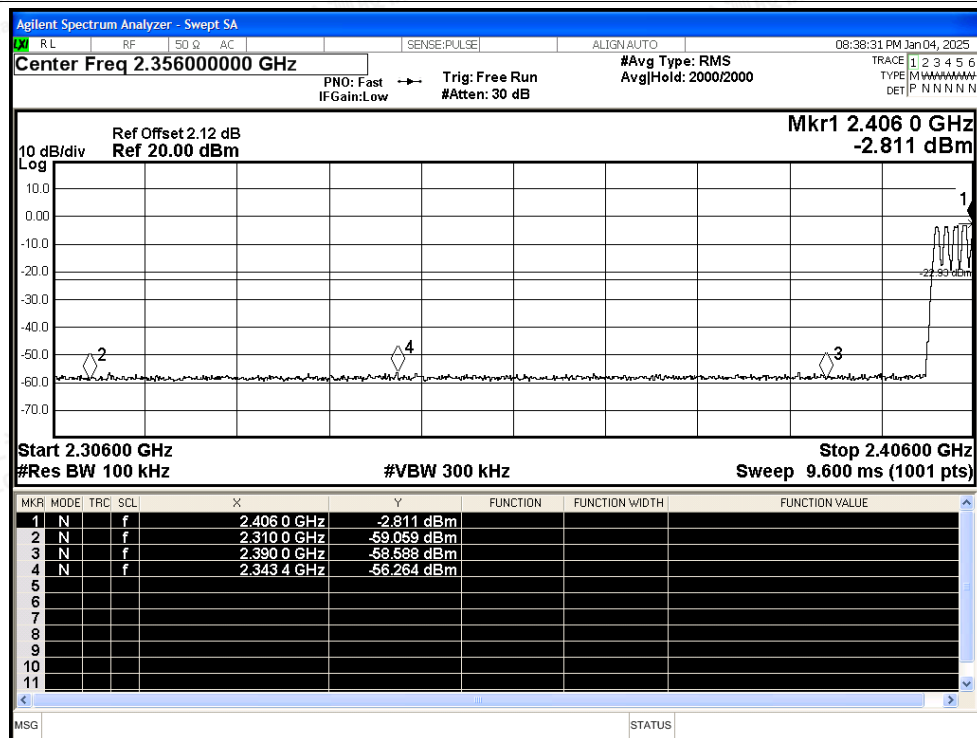


Test Graphs

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



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

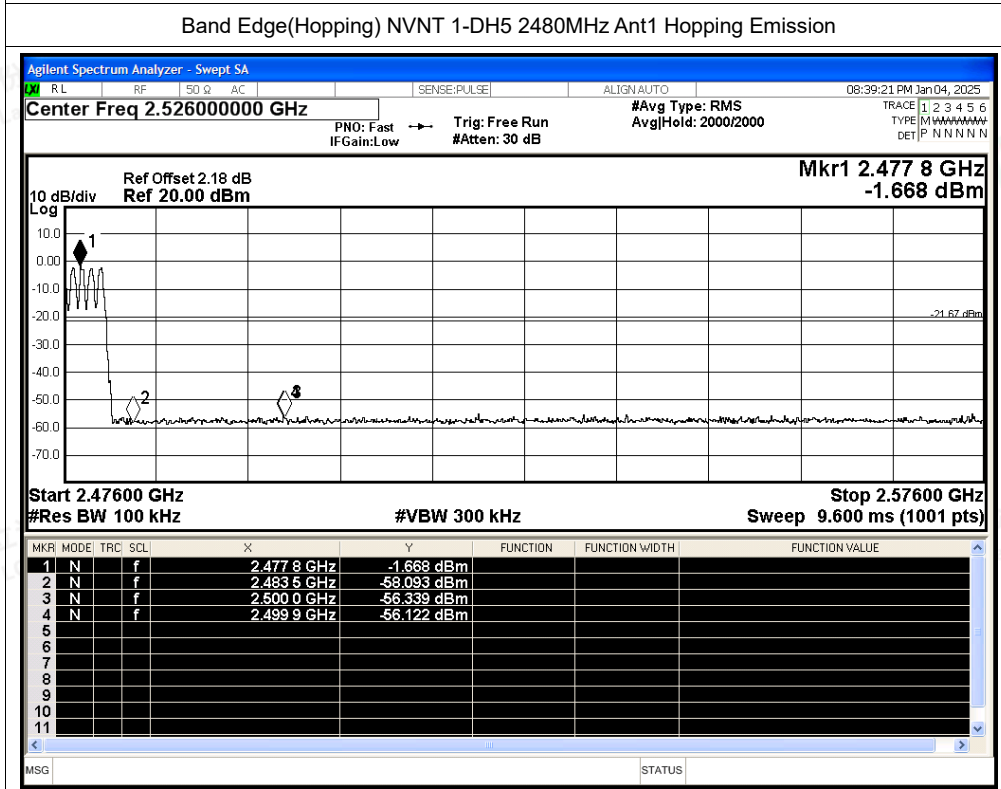
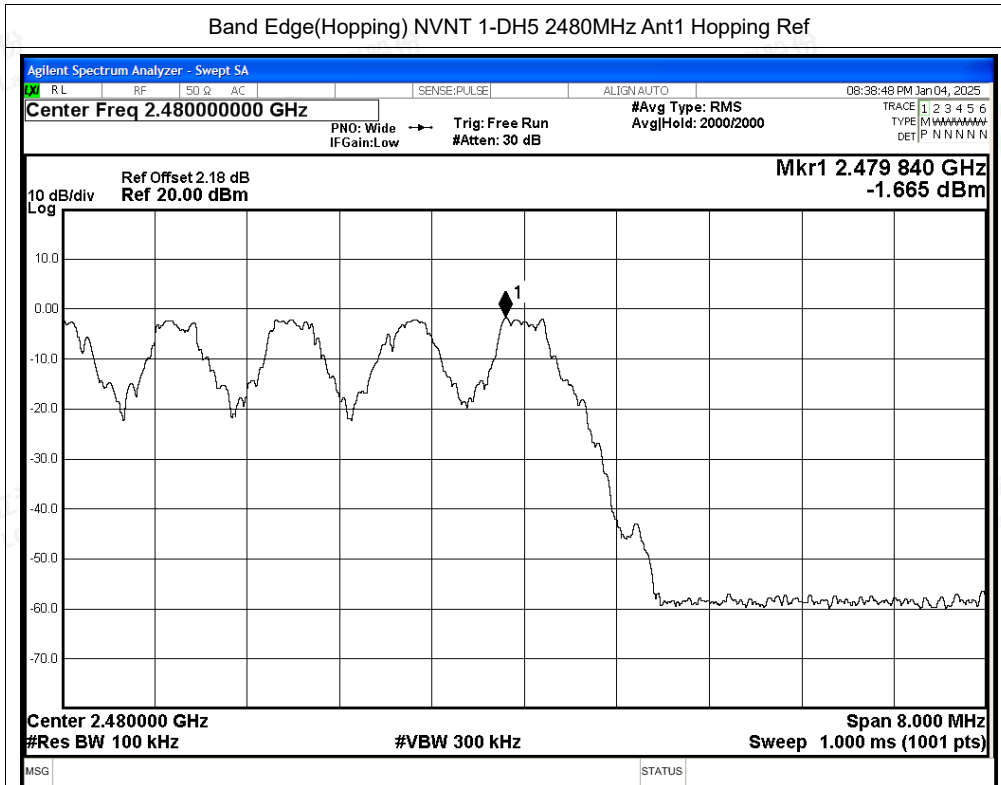


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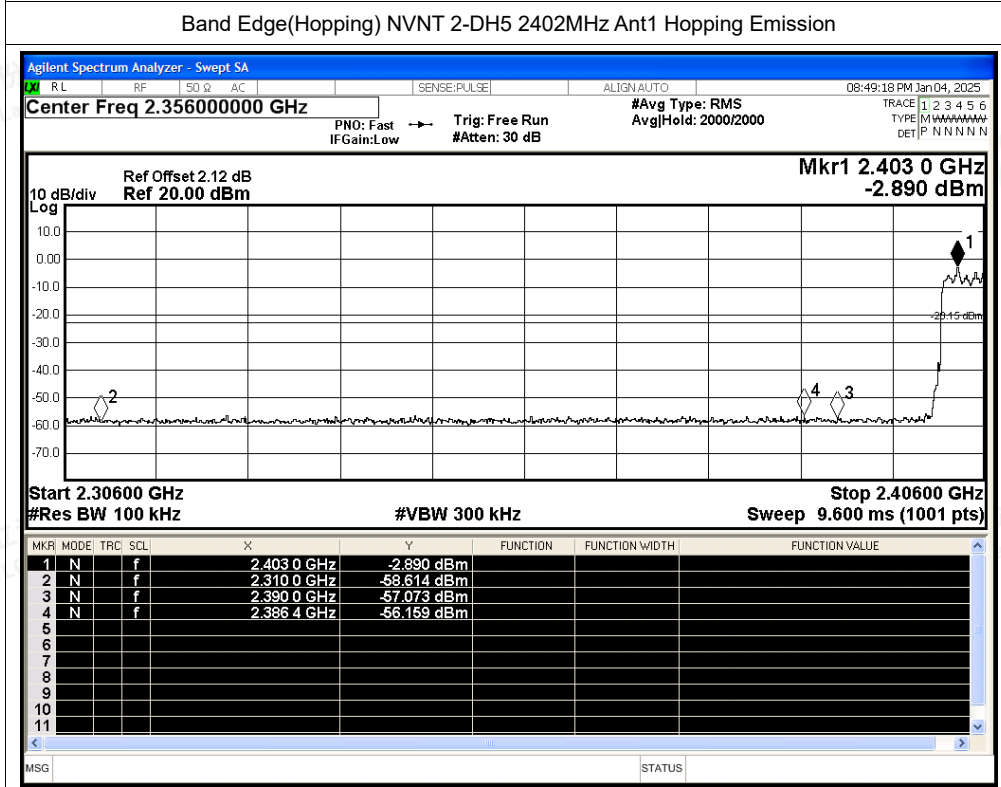
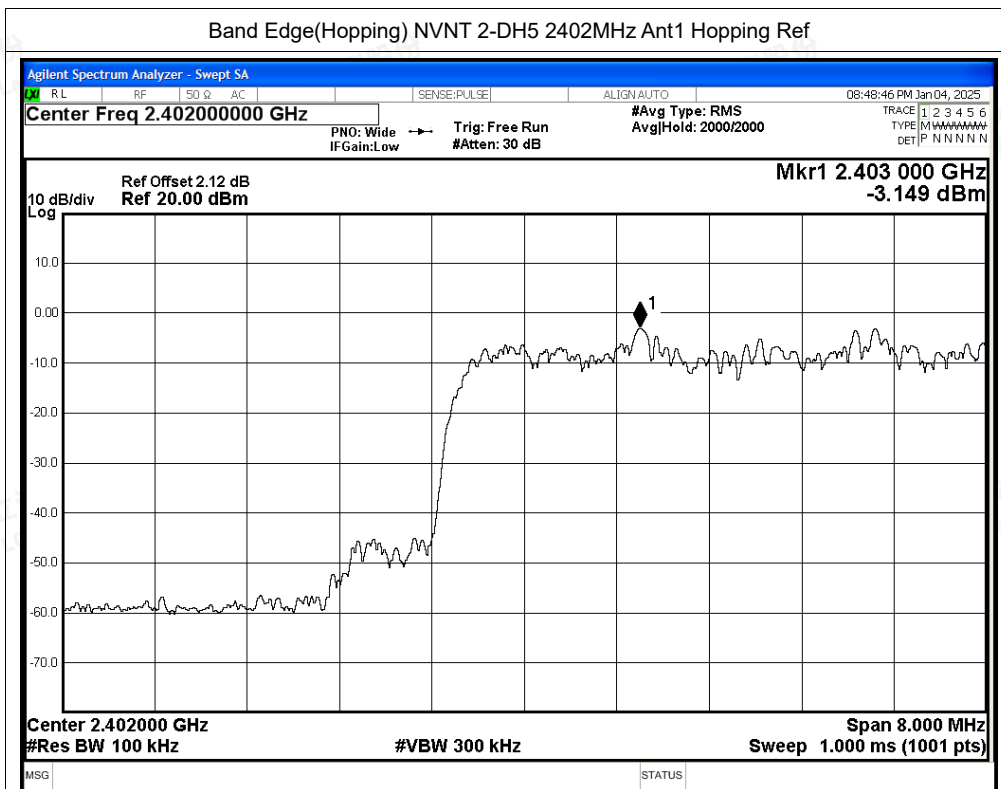


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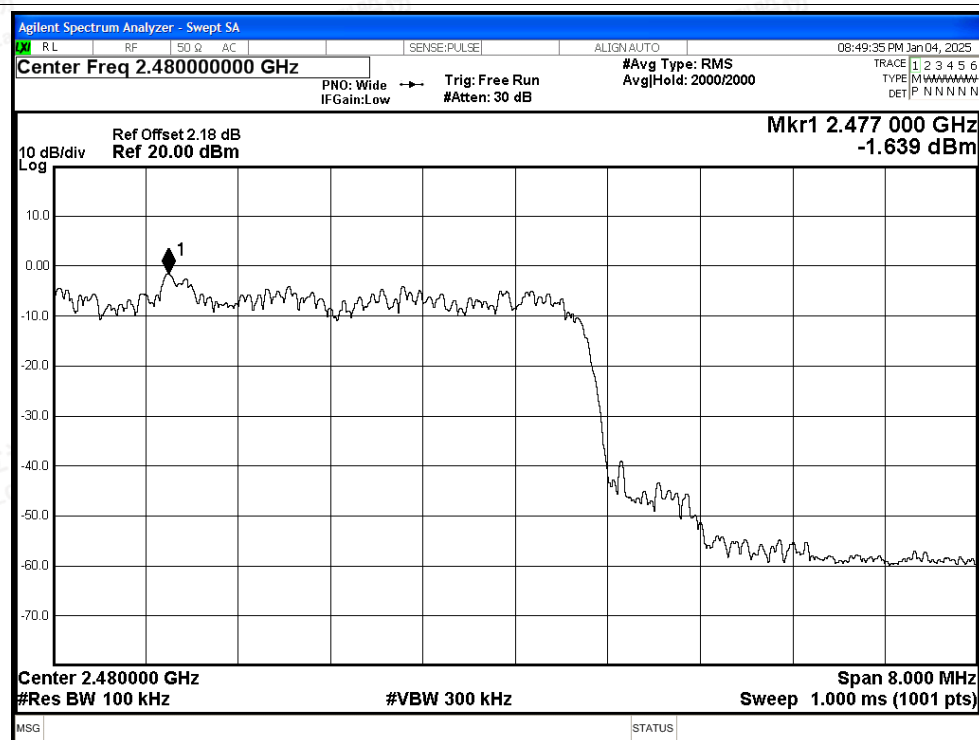
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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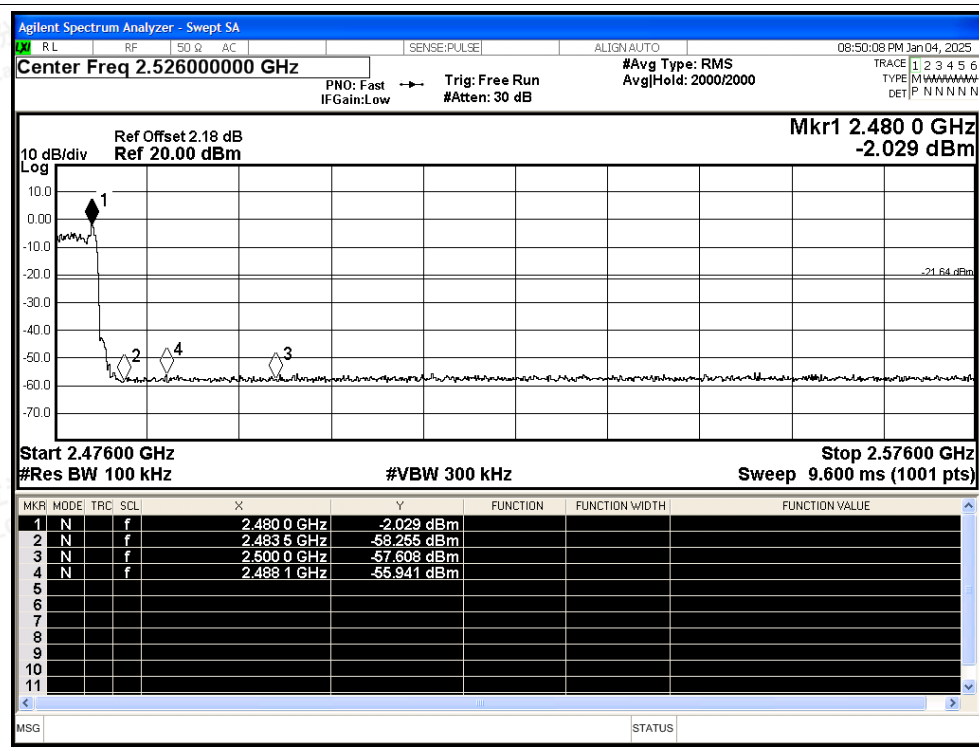
Scan code to check authenticity



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



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

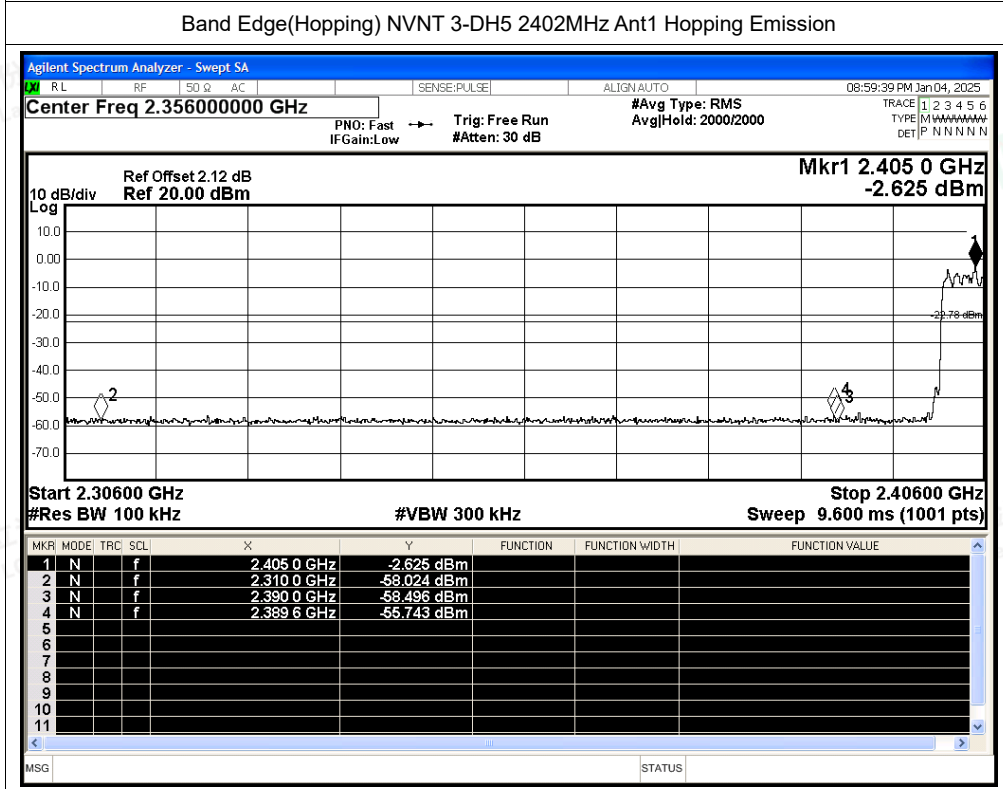
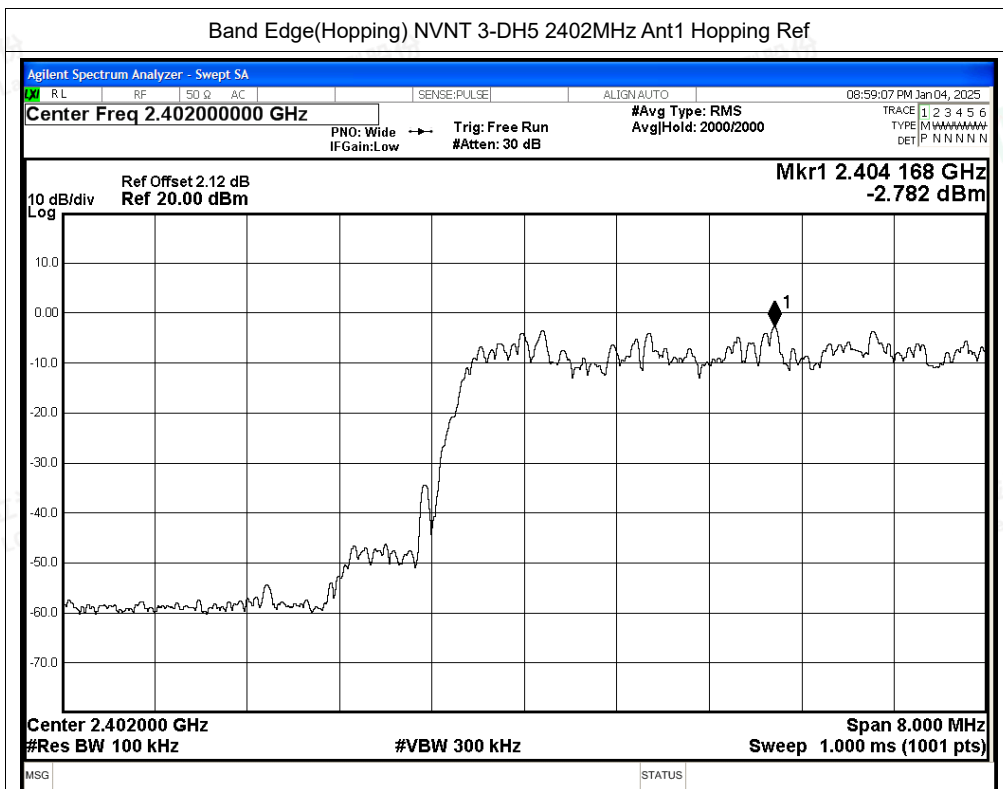


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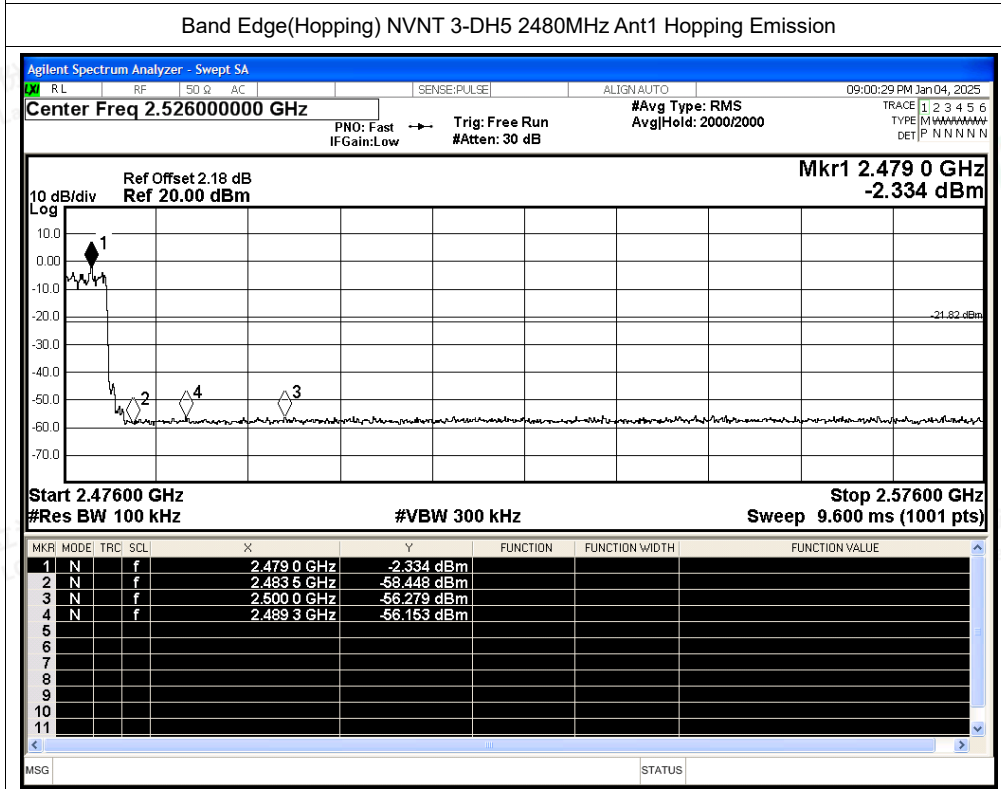
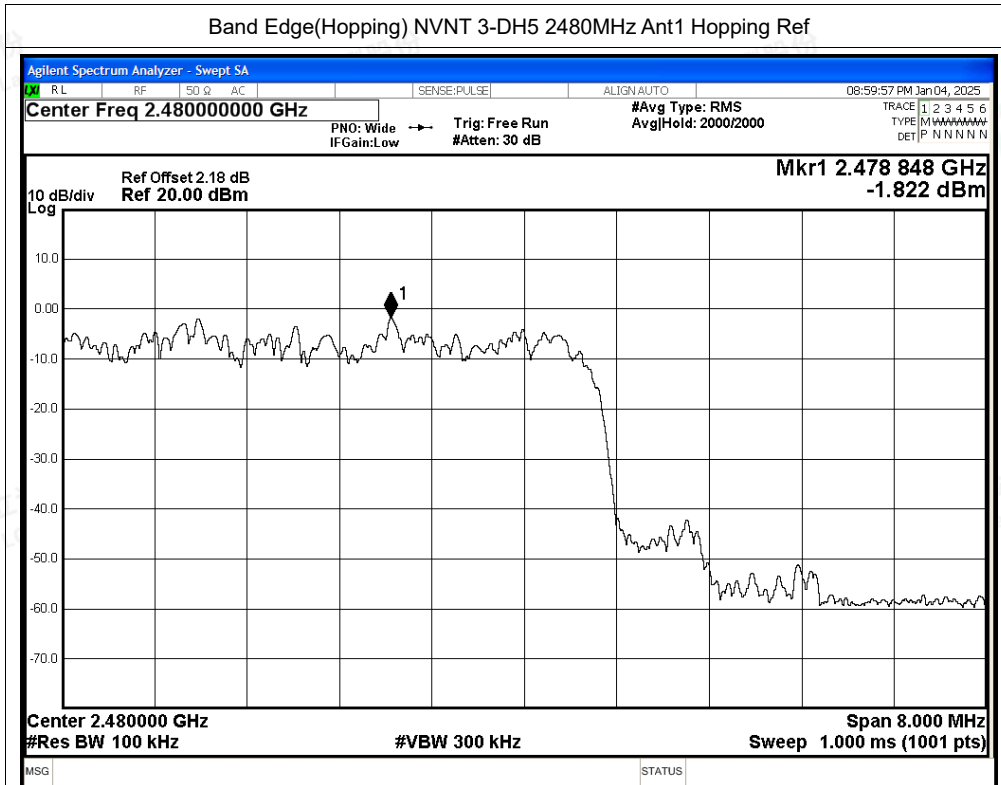


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A.7 Conducted RF Spurious Emission

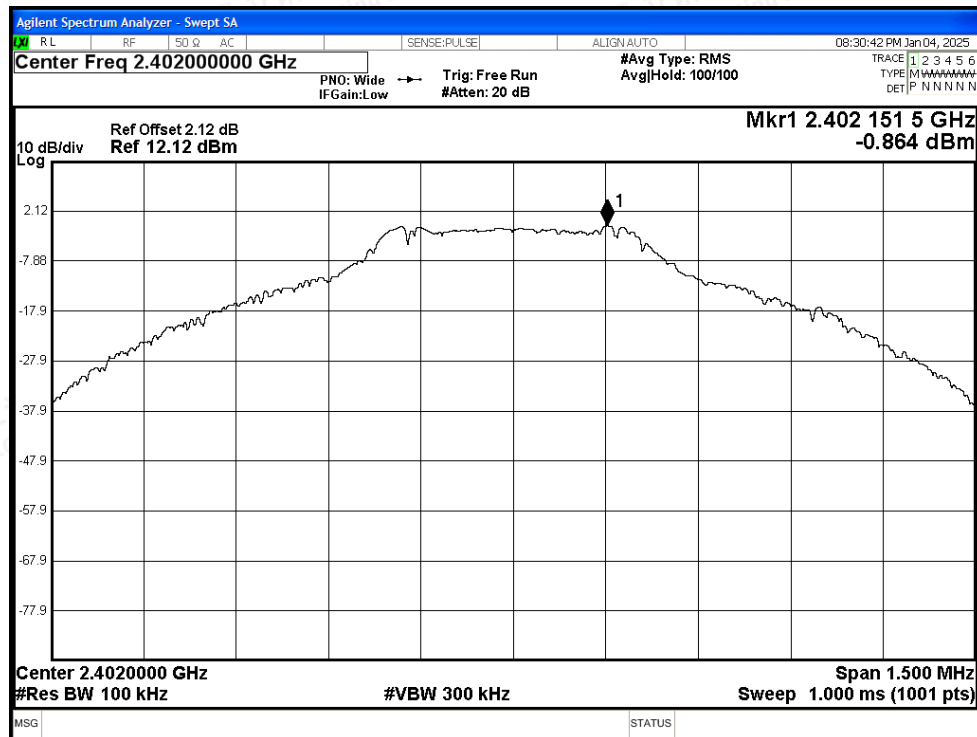
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.74	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.33	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.32	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.49	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.96	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.69	-20	Pass
NVNT	3-DH5	2402	Ant1	-55.12	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.28	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.03	-20	Pass



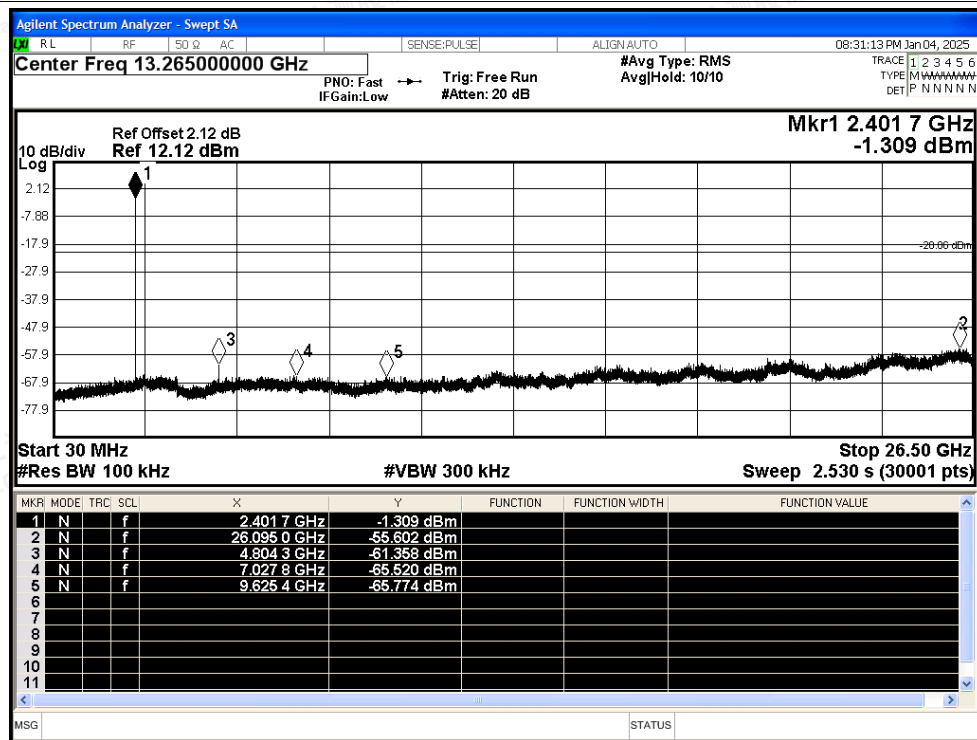


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

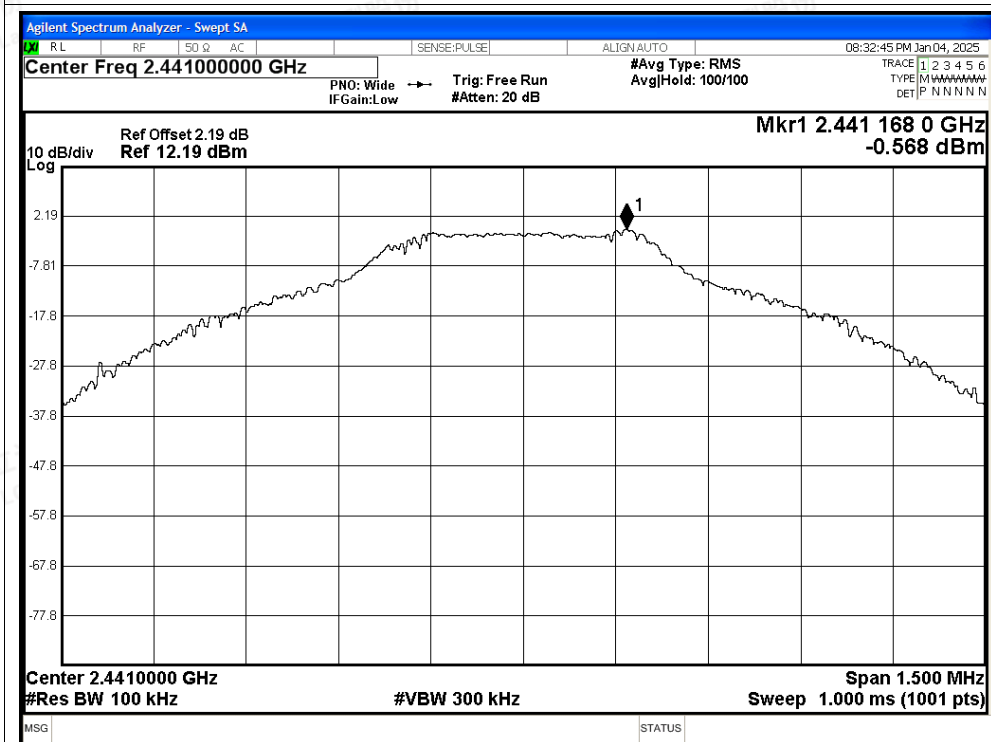
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

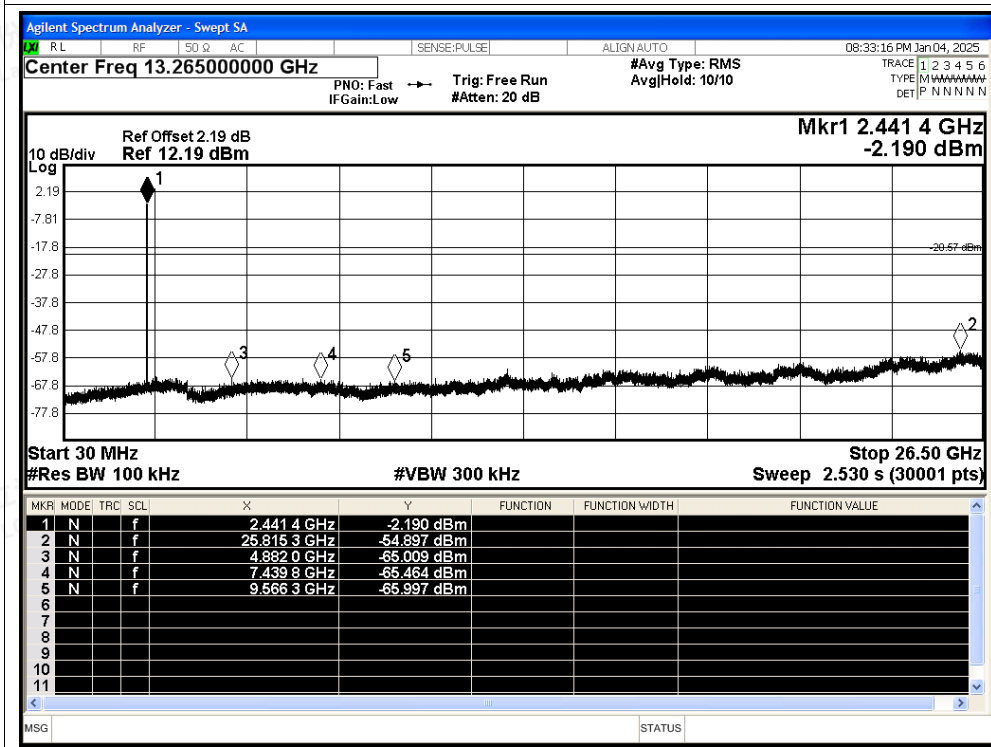
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

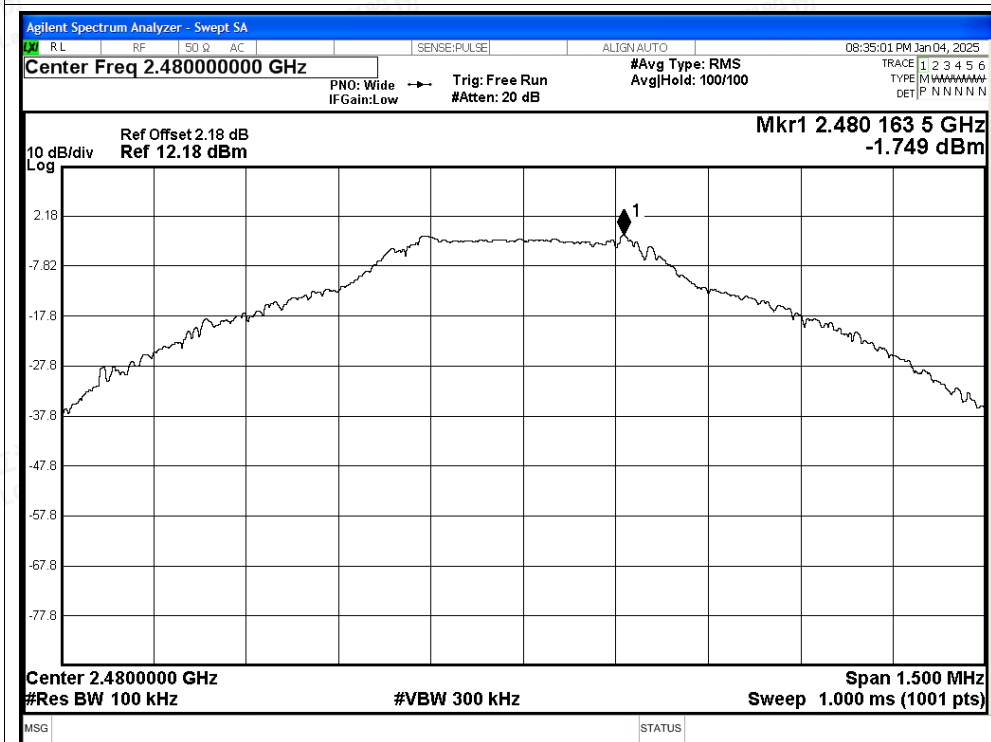
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

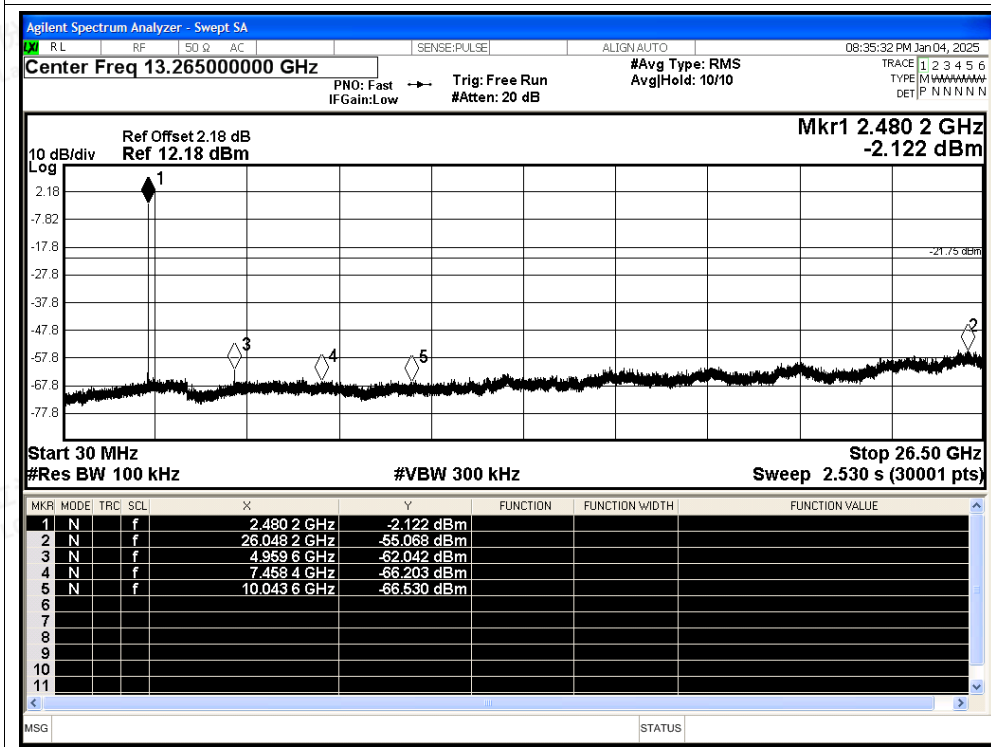
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

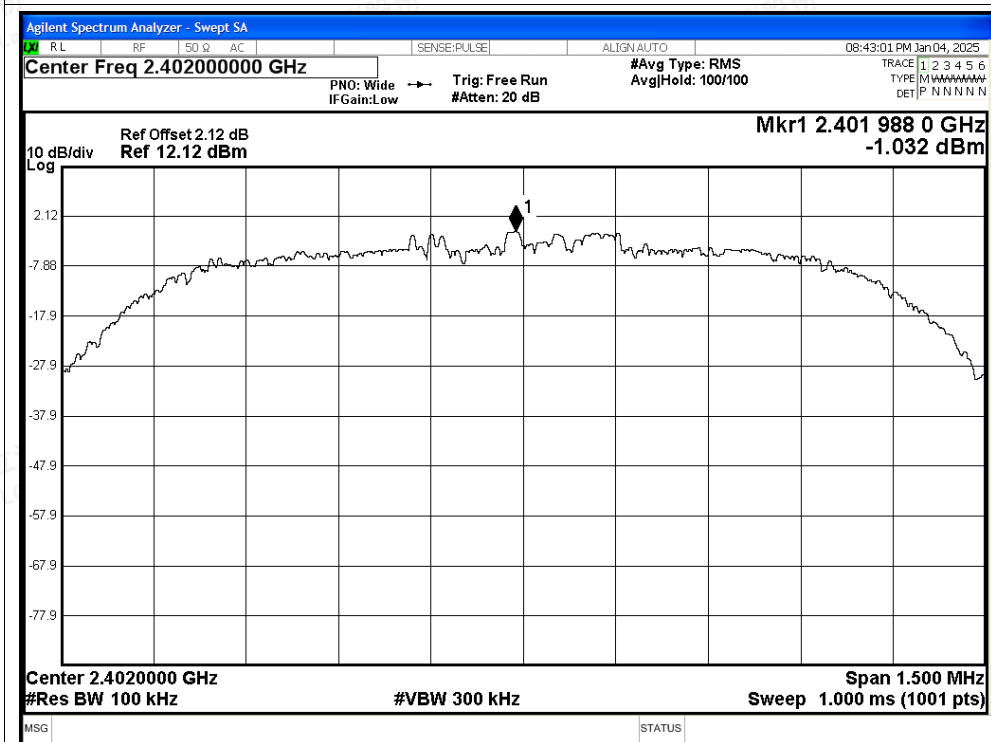
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

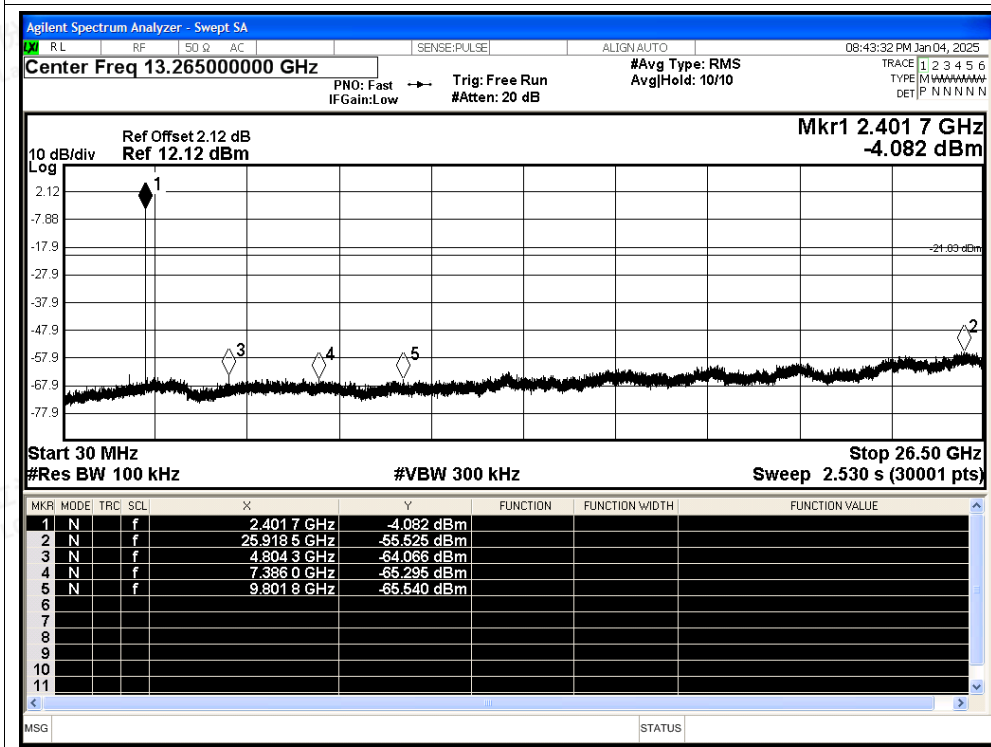
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

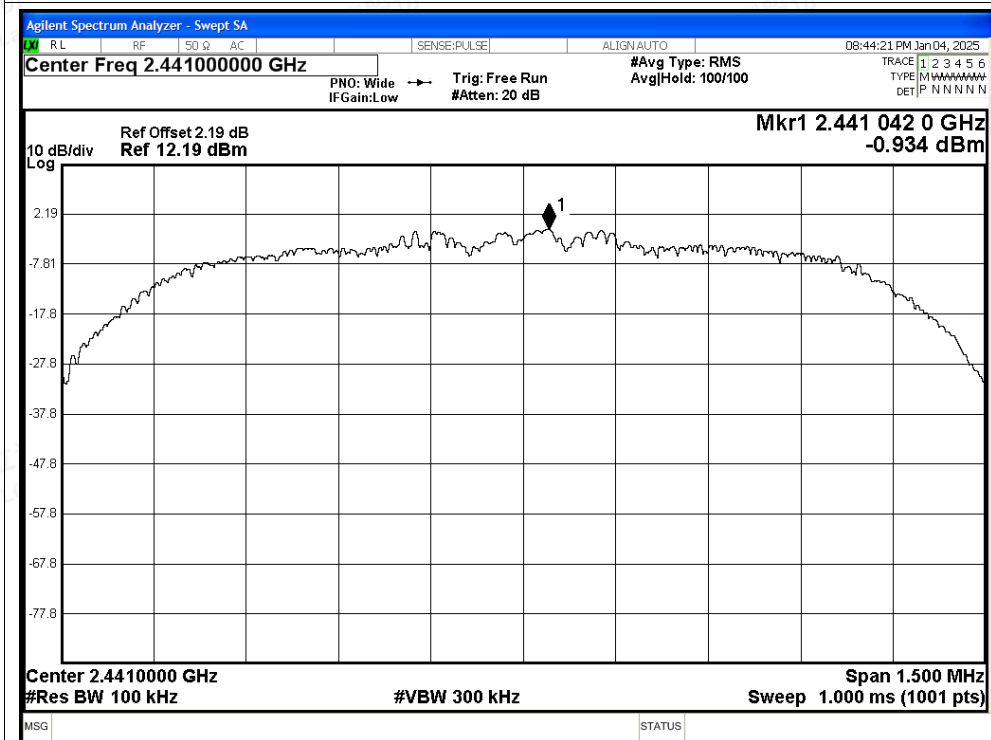
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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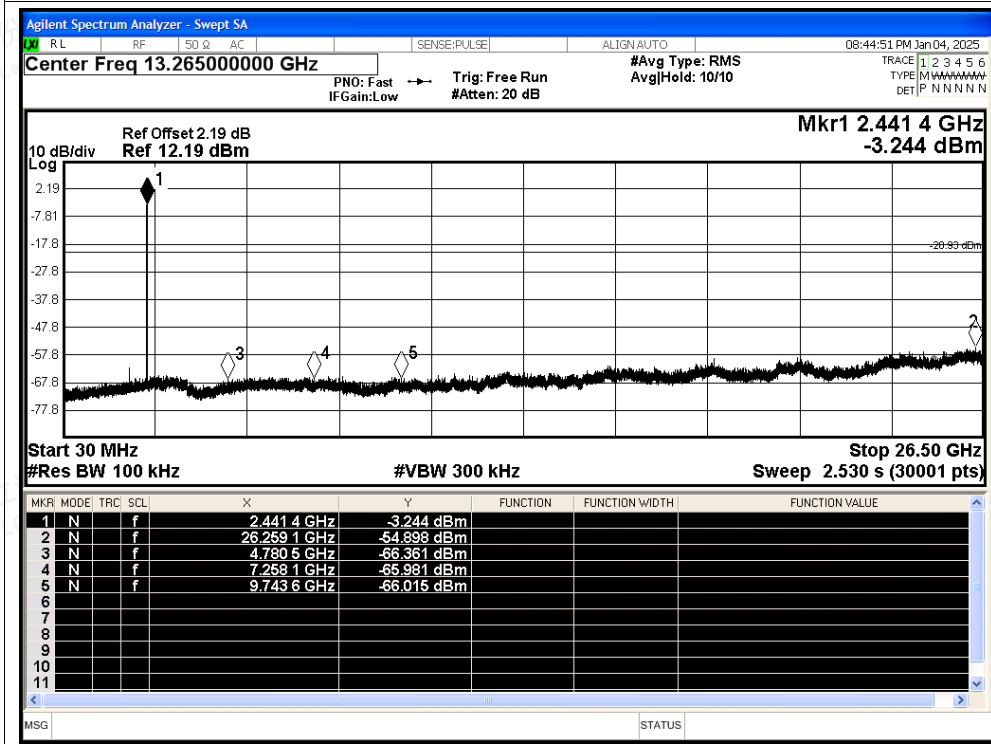
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

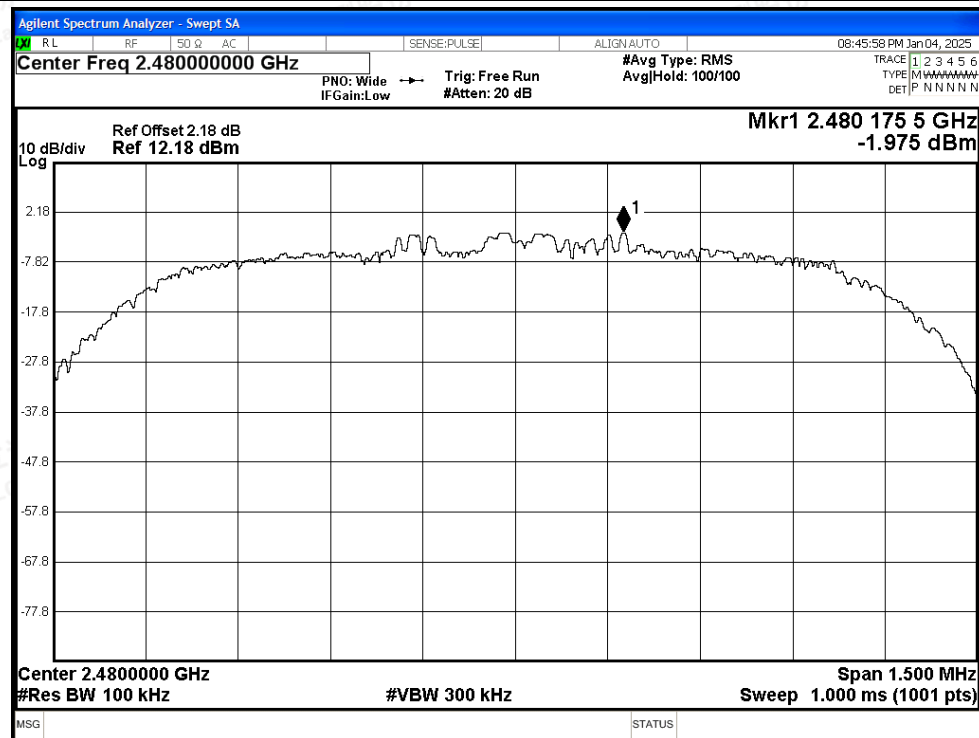
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

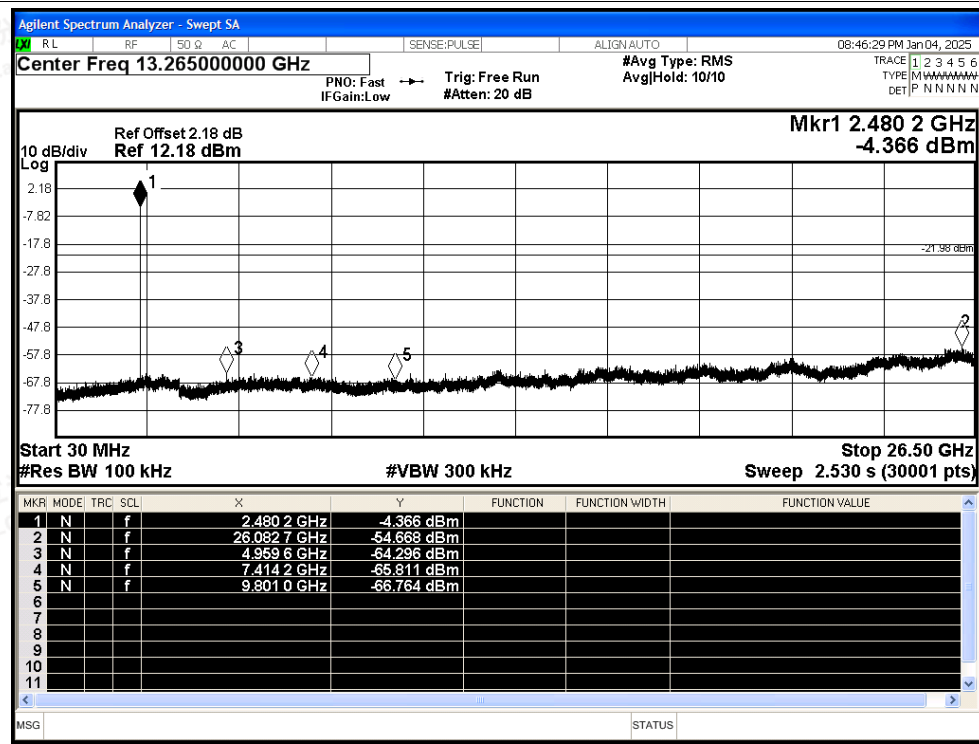
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

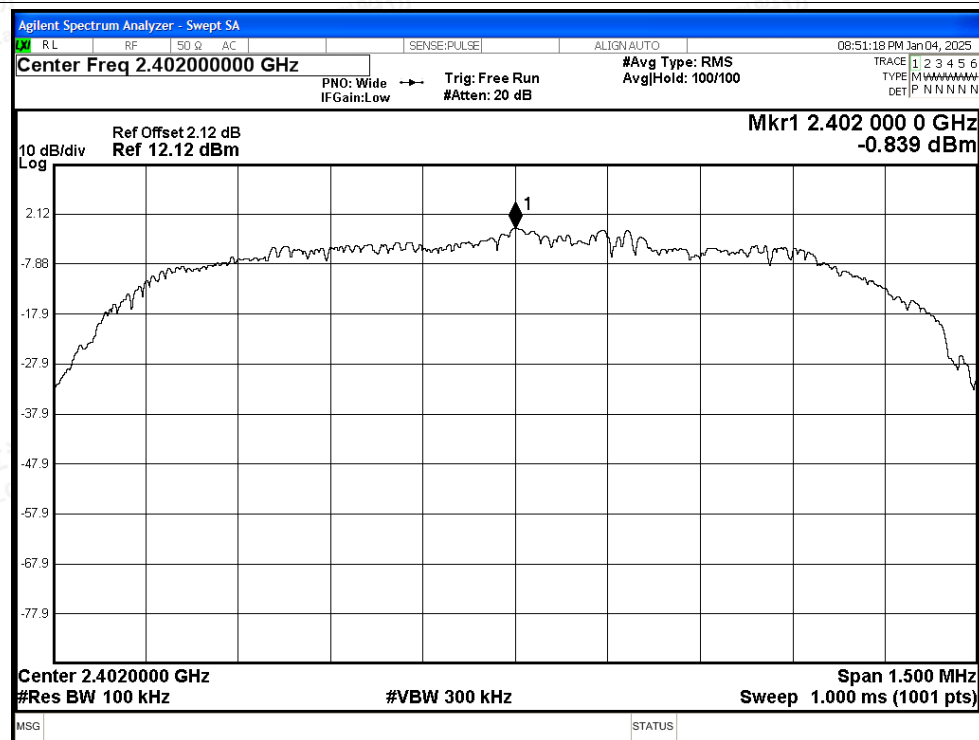
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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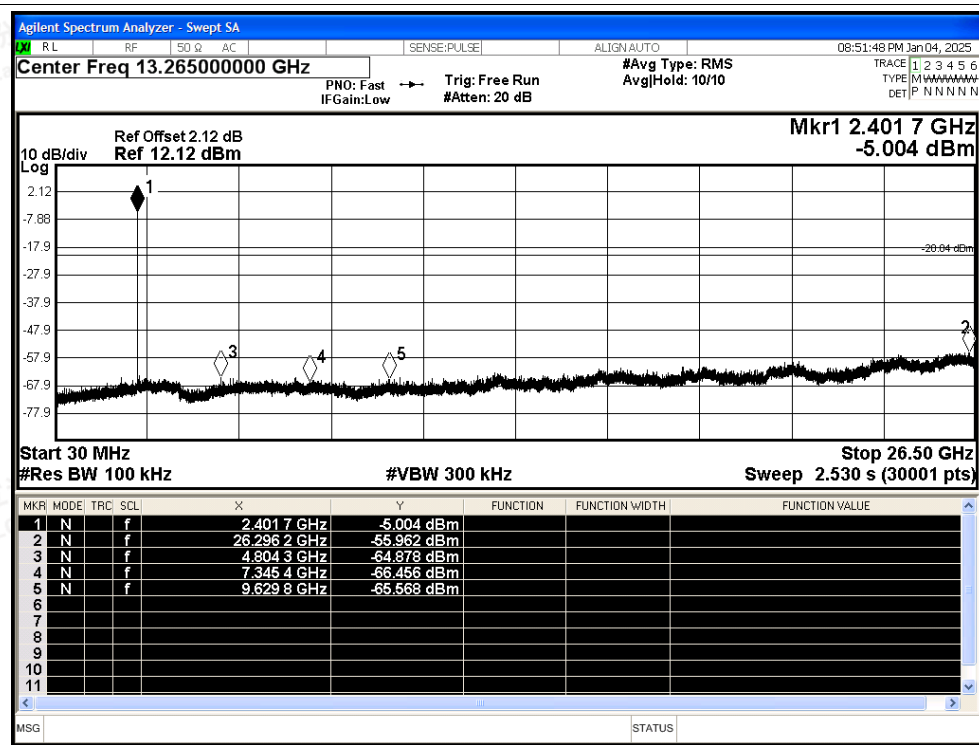
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

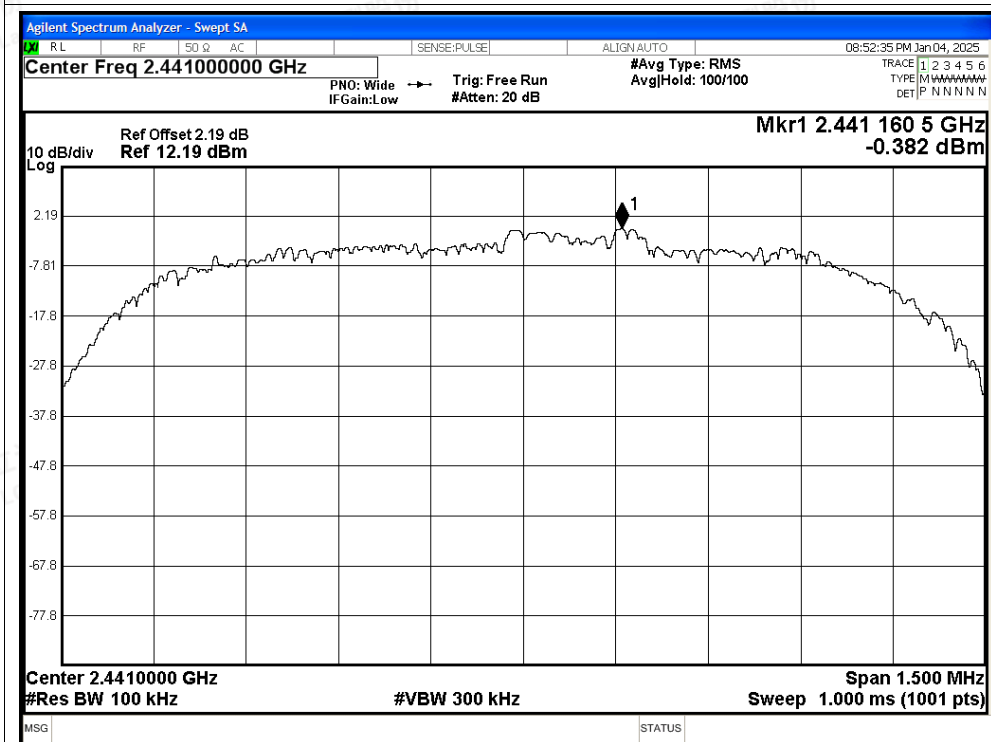
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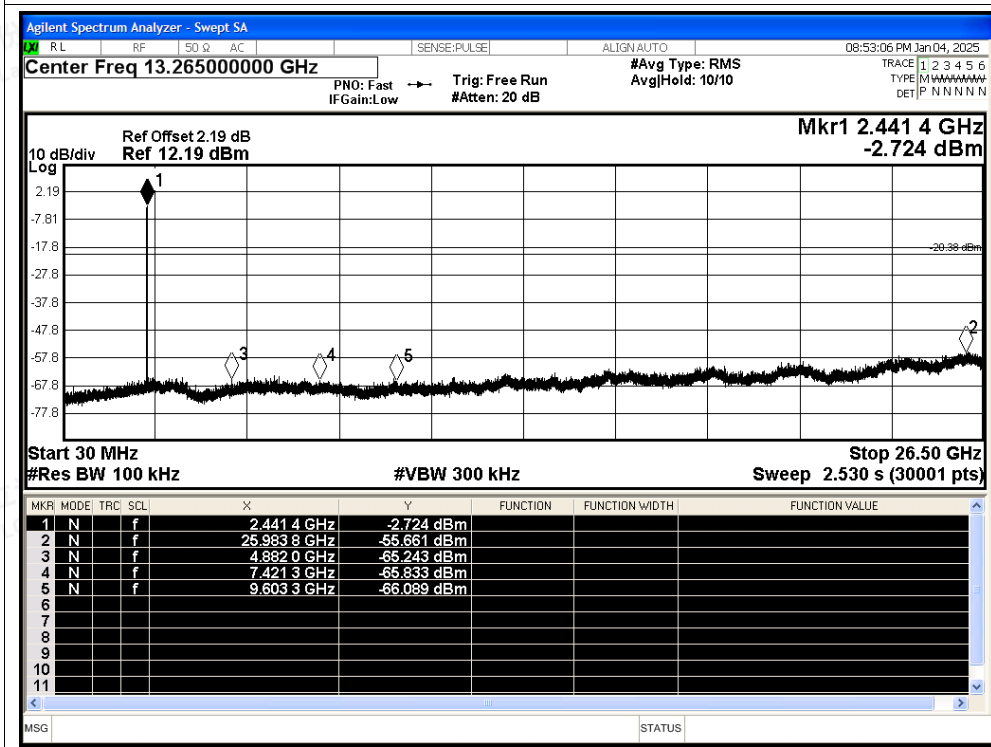
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

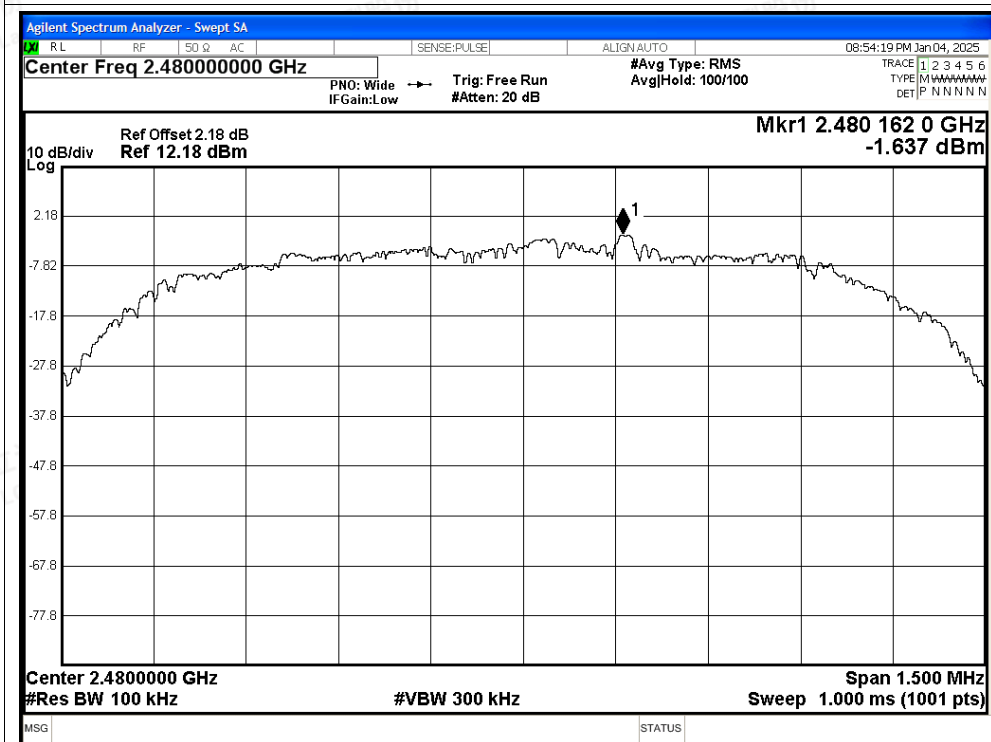
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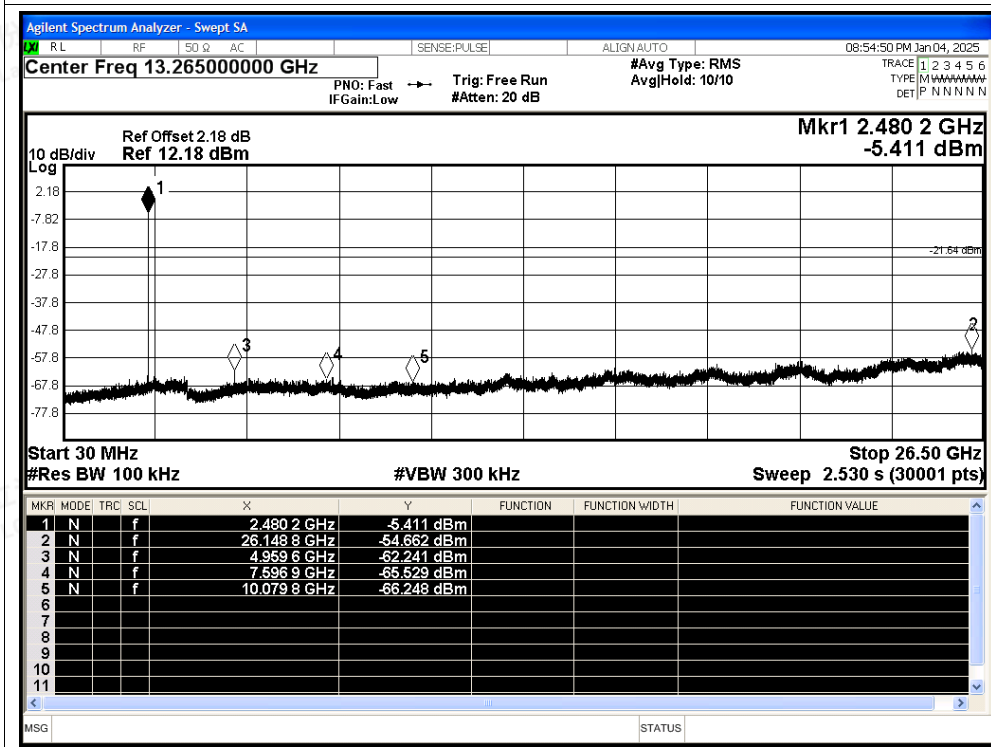
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.63	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	77.33	1.12	0.34
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.23	1.12	0.35

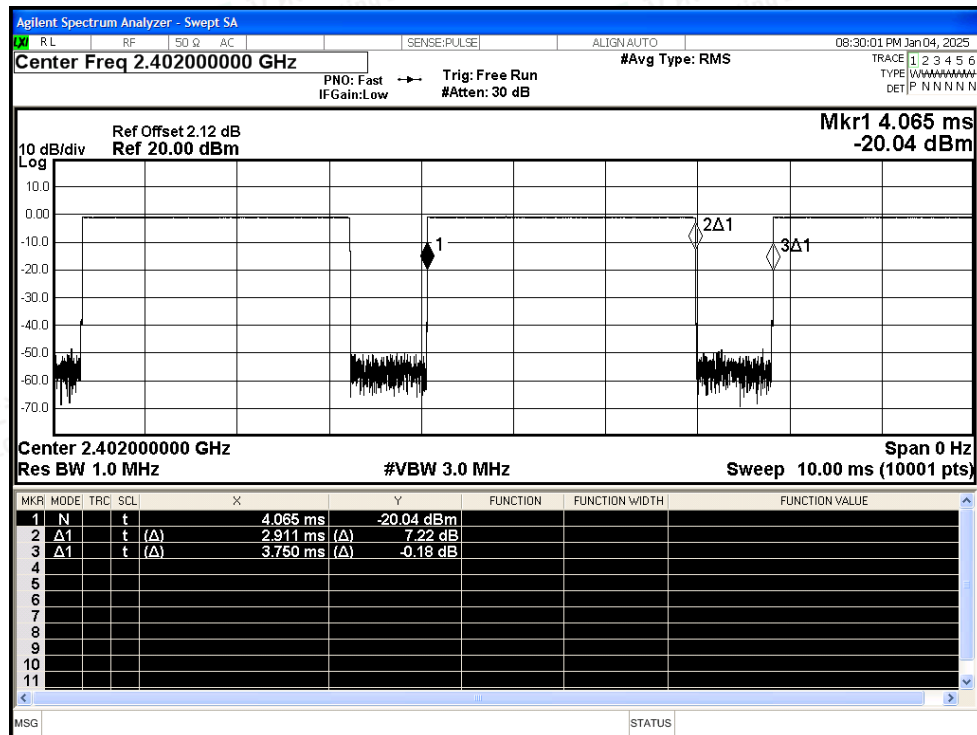


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Scan code to check authenticity

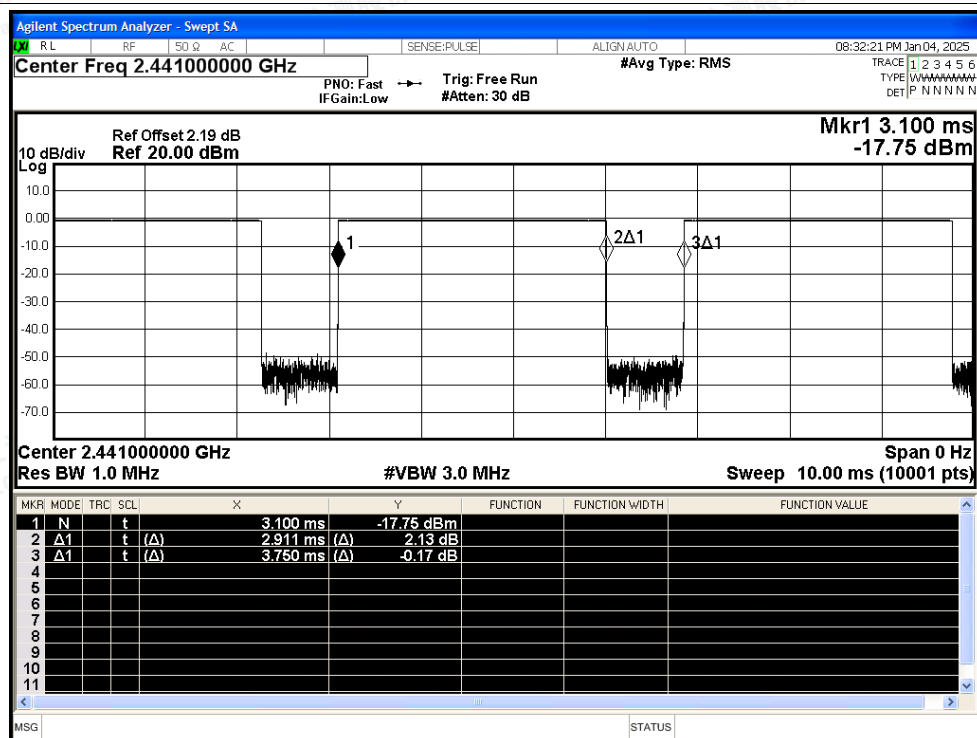


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



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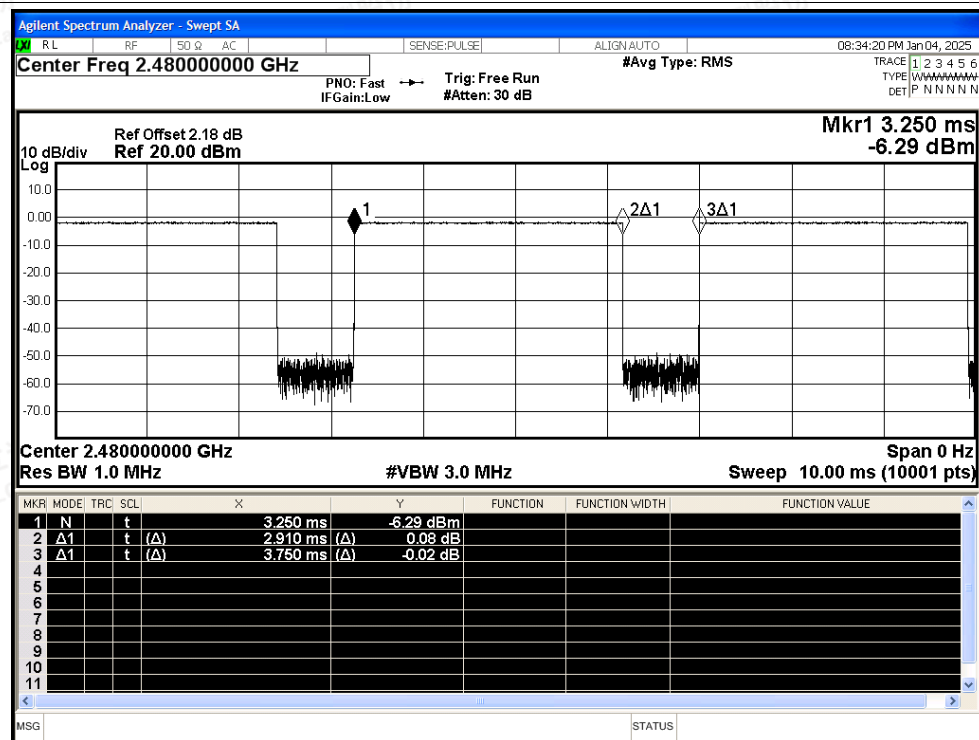
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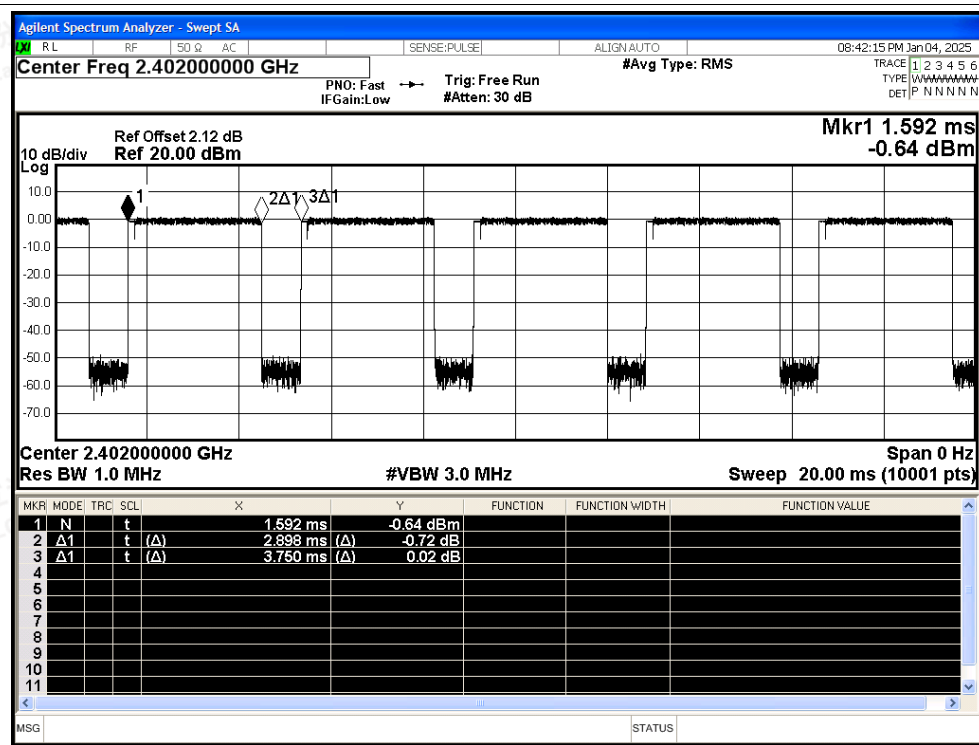
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



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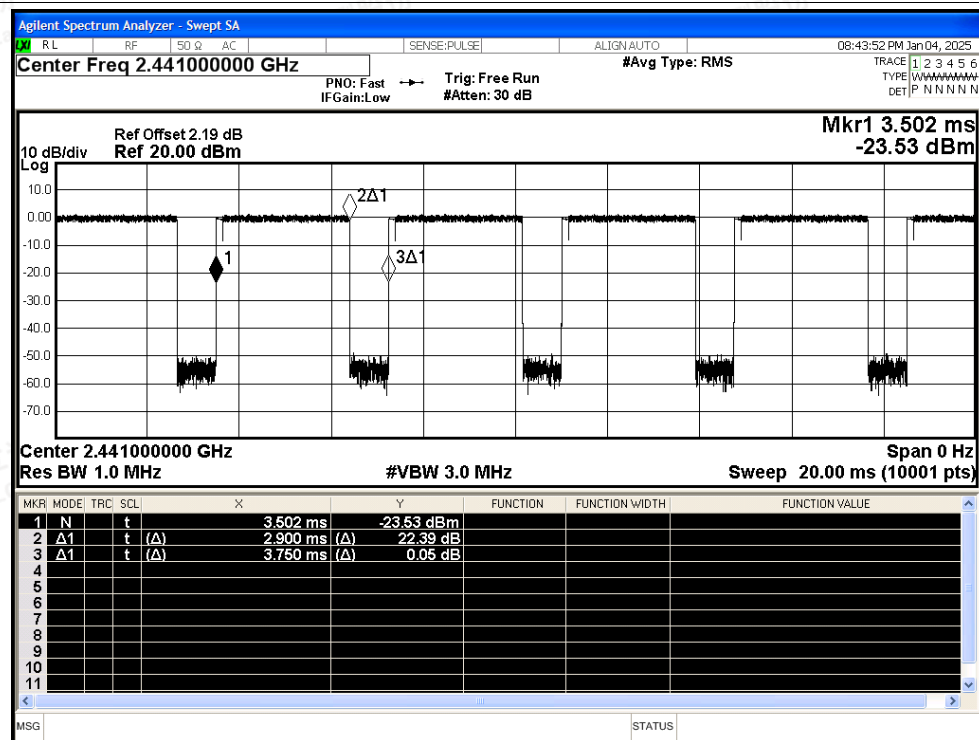
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

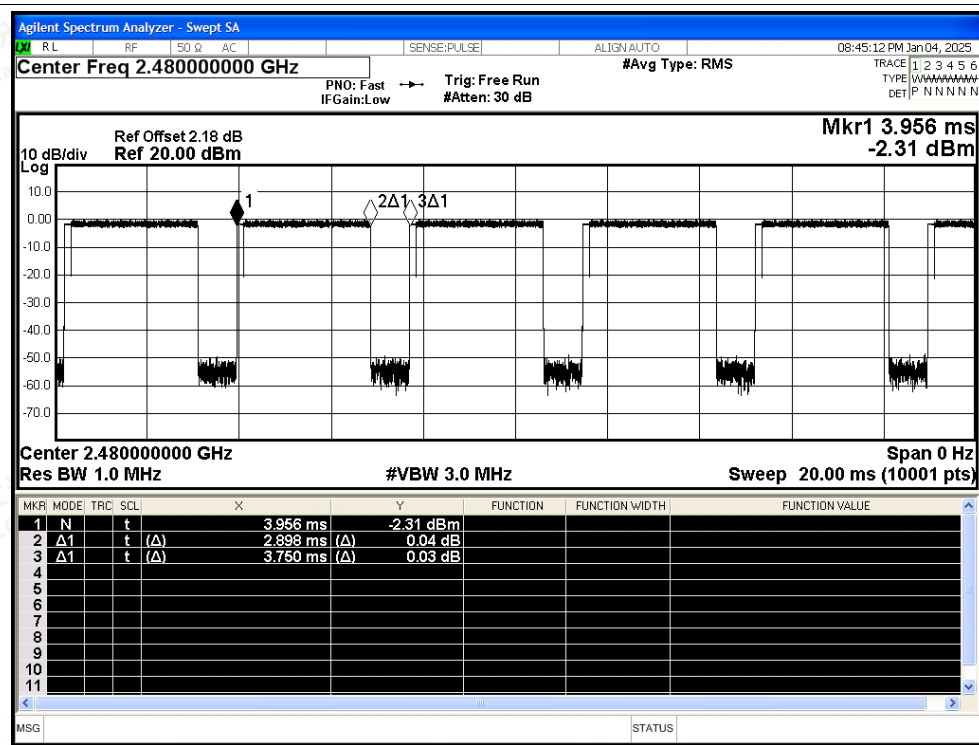
Scan code to check authenticity



Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



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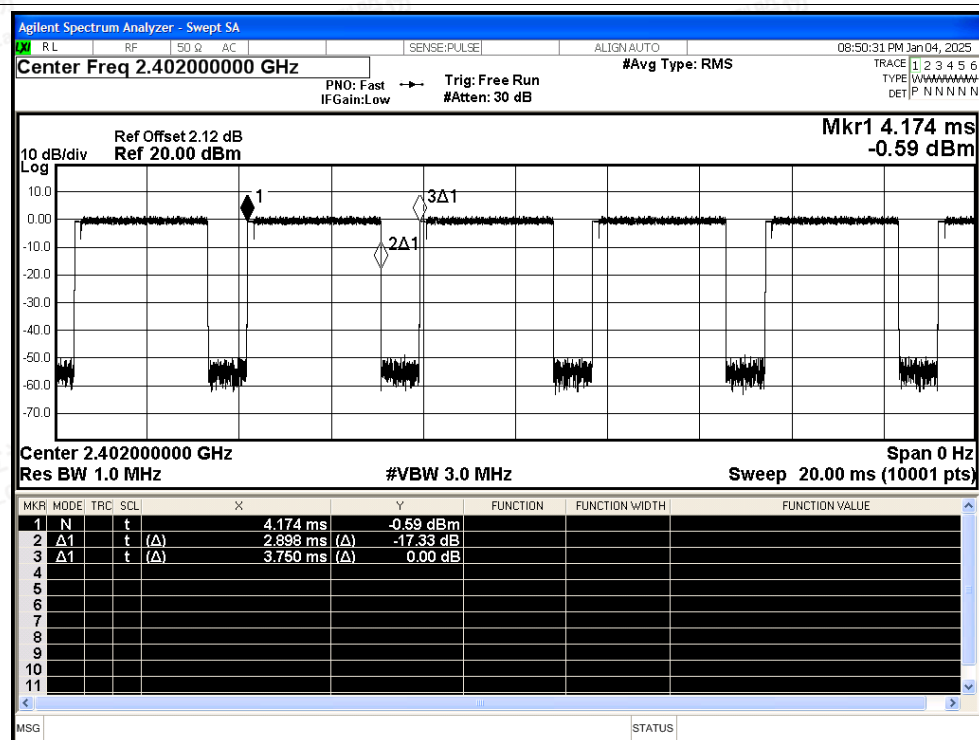
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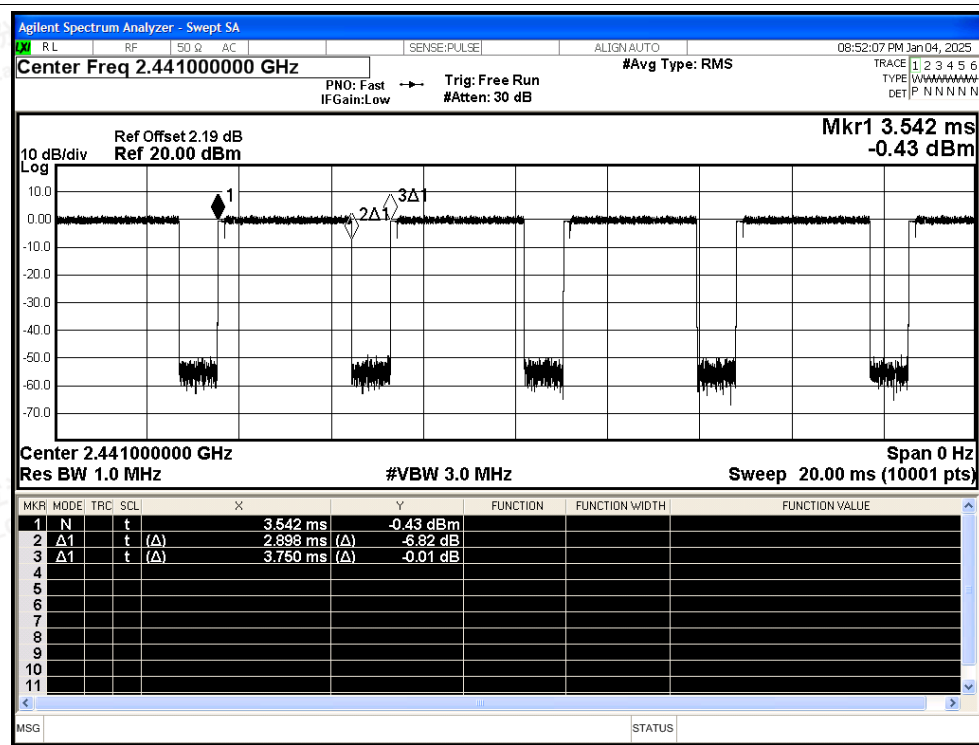
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Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

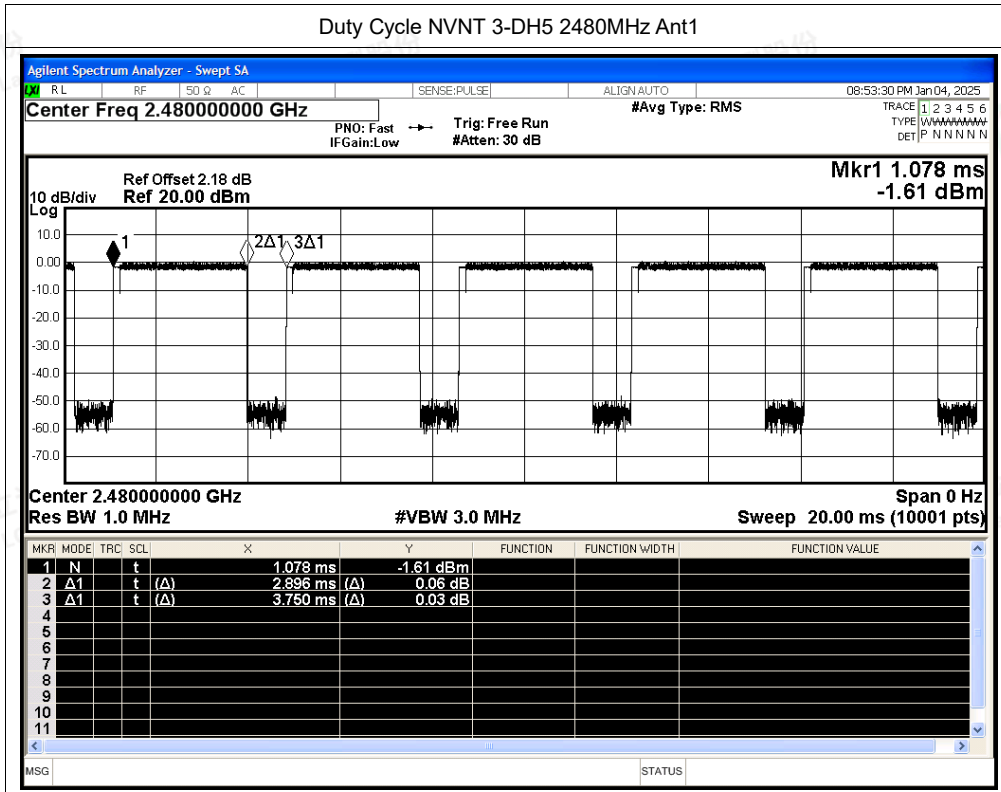


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A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.42	2	-	46.84	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.77	2	1.1	39.59	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2312.208	-46.87	2	-	50.39	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.648	-57.57	2	1.1	40.79	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.21	2	-	47.05	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.5	2	1.1	39.86	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.38	2	-	47.88	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.27	2	1.1	40.09	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.88	-46.72	2	-	50.54	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2488.864	-57.09	2	1.1	41.27	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.59	2	-	46.67	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.18	2	1.1	40.18	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.95	2	-	46.31	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.04	2	1.12	39.34	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2331.024	-46.97	2	-	50.29	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2366.352	-57.57	2	1.12	40.81	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.64	2	-	46.62	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.77	2	1.12	39.61	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.5	2	-	48.76	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.46	2	1.12	40.92	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.304	-46.79	2	-	50.47	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.352	-56.88	2	1.12	41.5	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.65	2	-	46.61	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.23	2	1.12	40.15	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.42	2	-	45.84	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.83	2	1.12	39.55	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2353.008	-47.65	2	-	49.61	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2380.656	-57.68	2	1.12	40.7	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.28	2	-	47.98	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.17	2	1.12	40.21	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-46.51	2	-	50.75	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-56.68	2	1.12	41.7	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-46.51	2	-	50.75	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-56.68	2	1.12	41.7	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.11	2	-	47.15	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.8	2	1.12	40.58	Average	54	Pass



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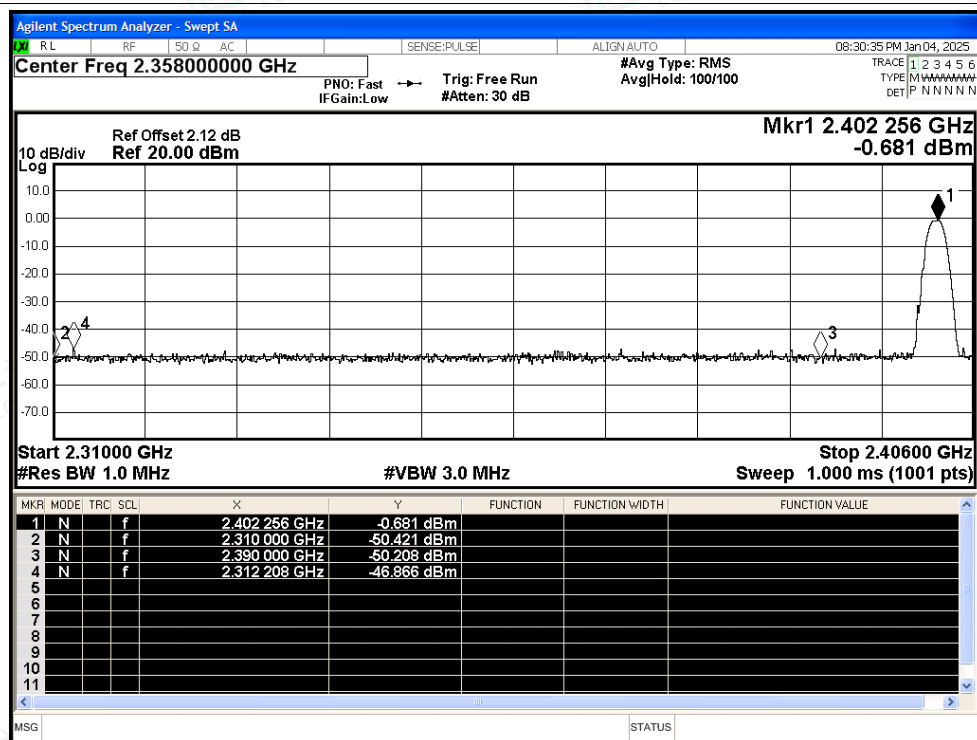
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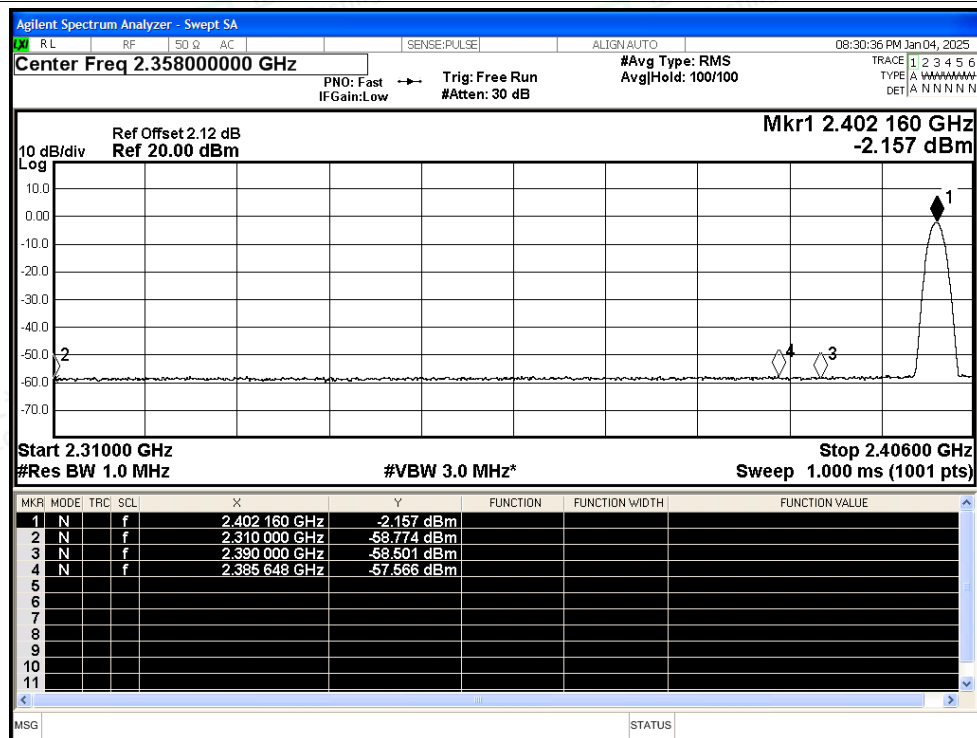


Test Graphs

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.

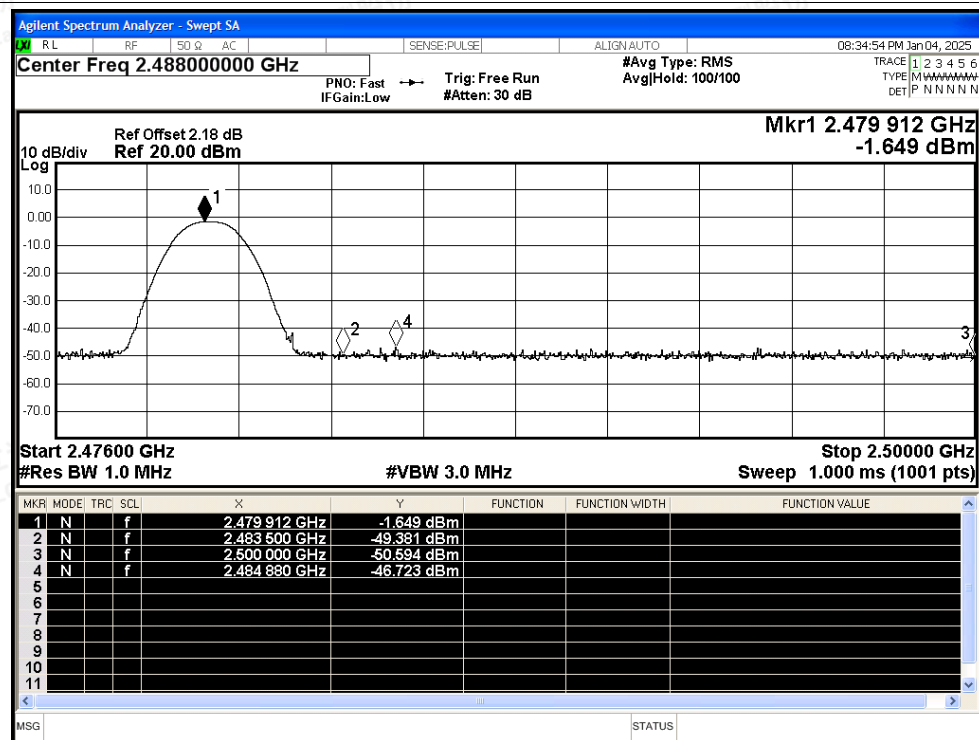
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

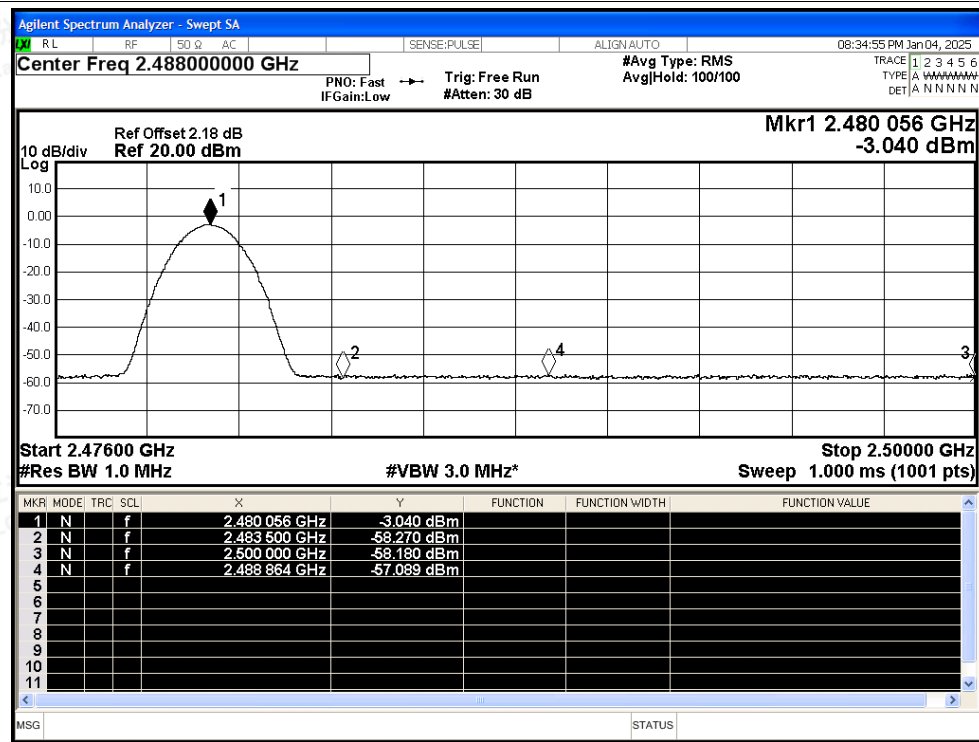
Scan code to check authenticity



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



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

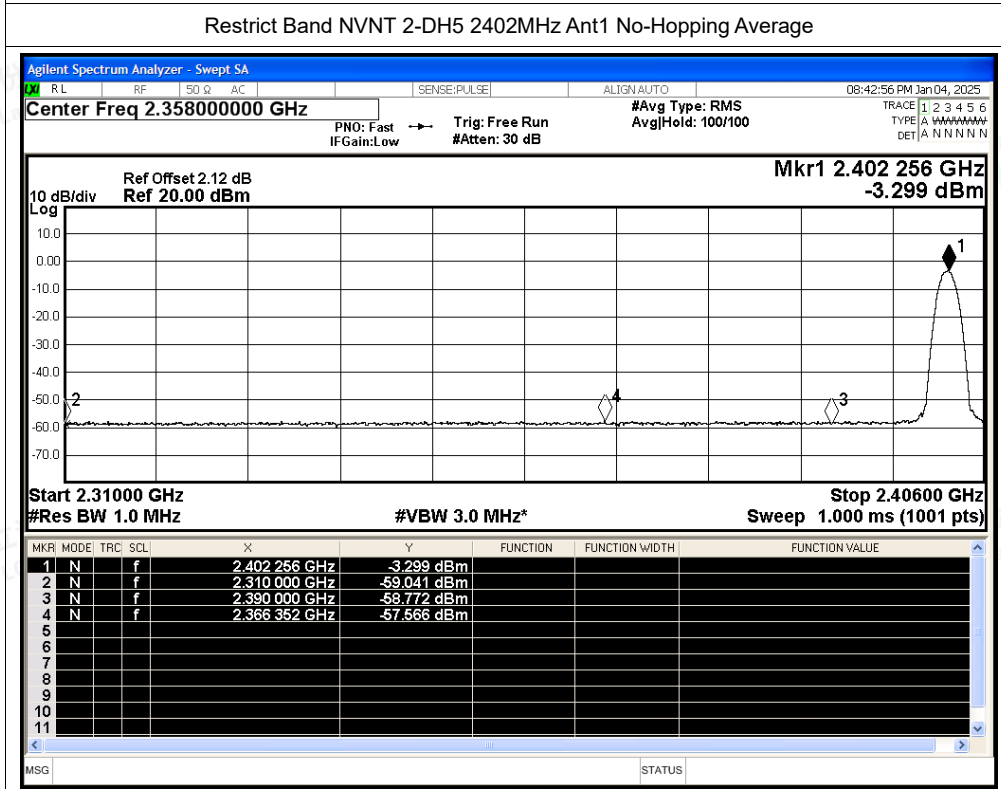
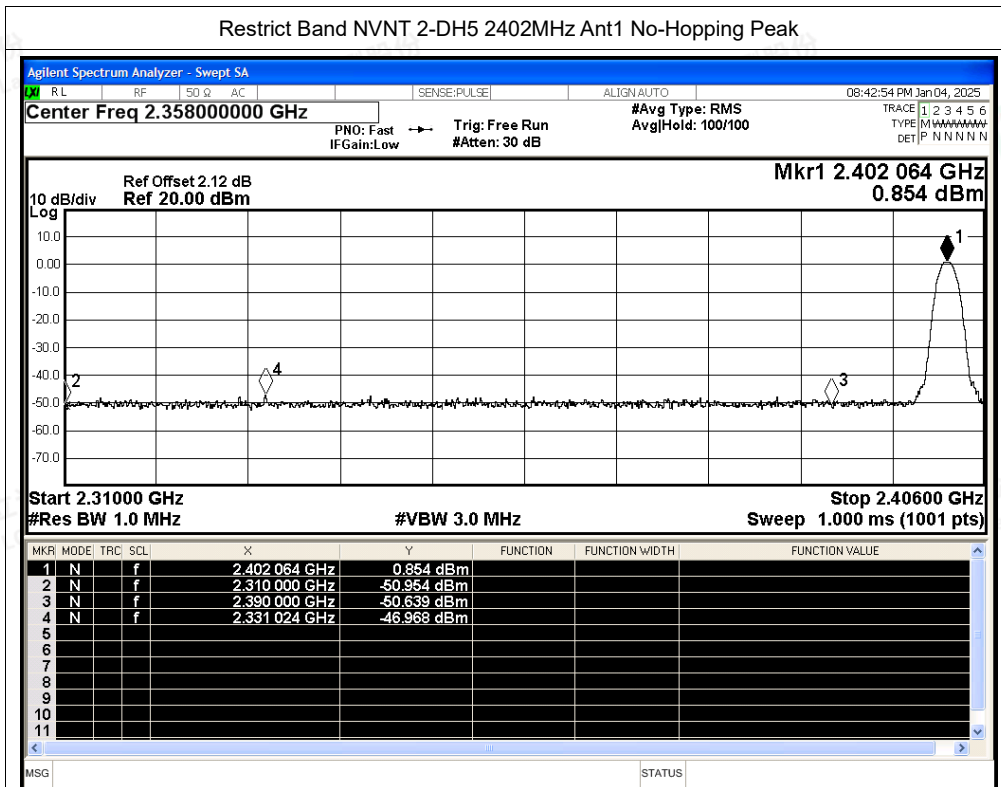


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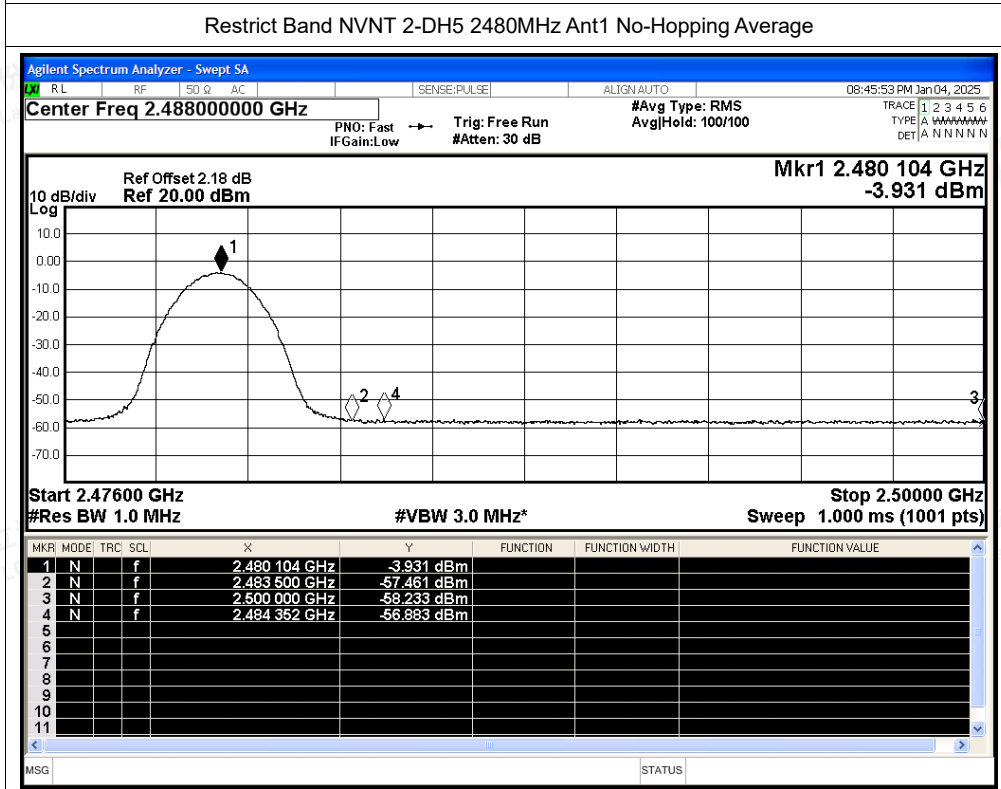
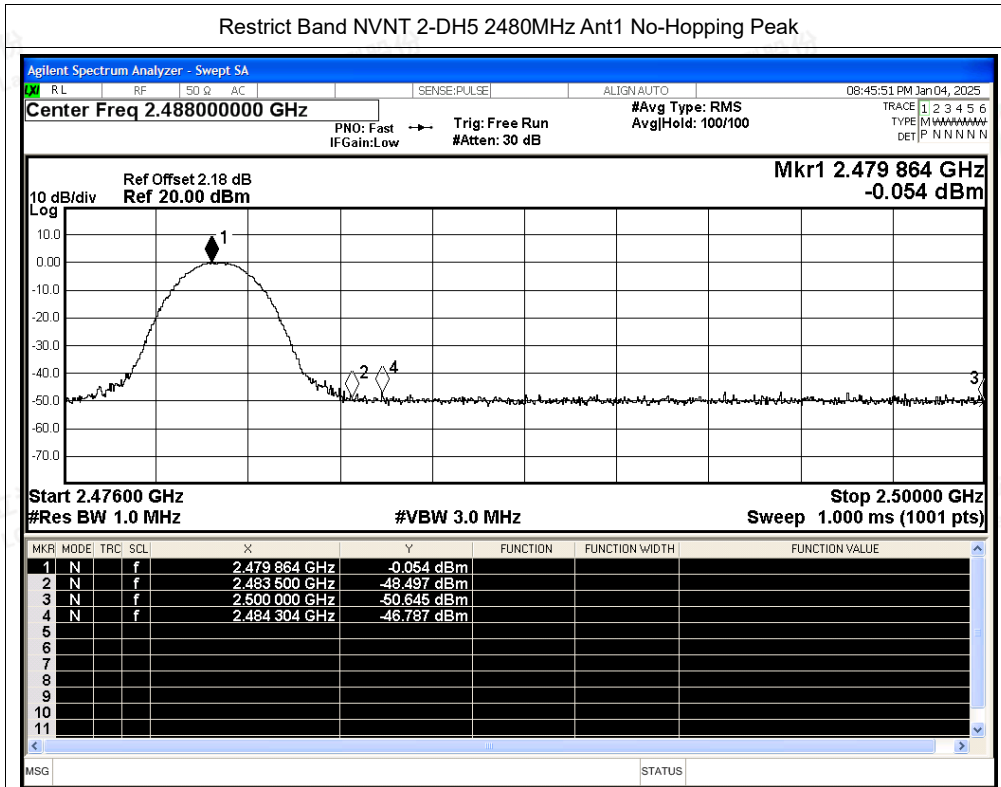


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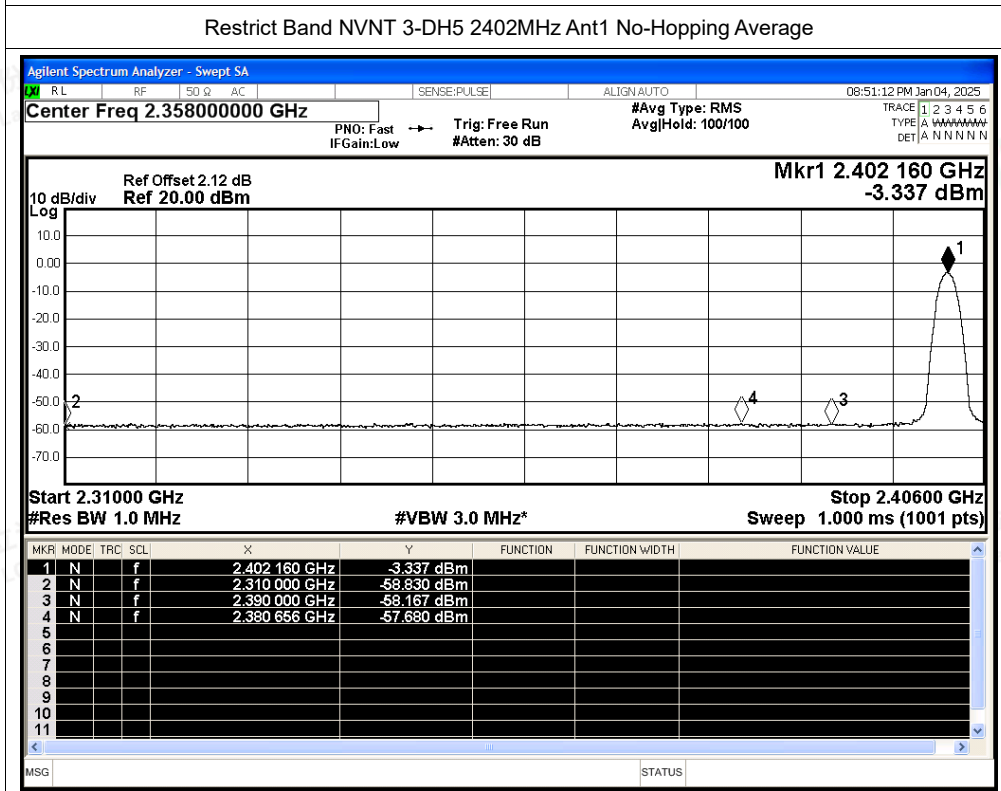
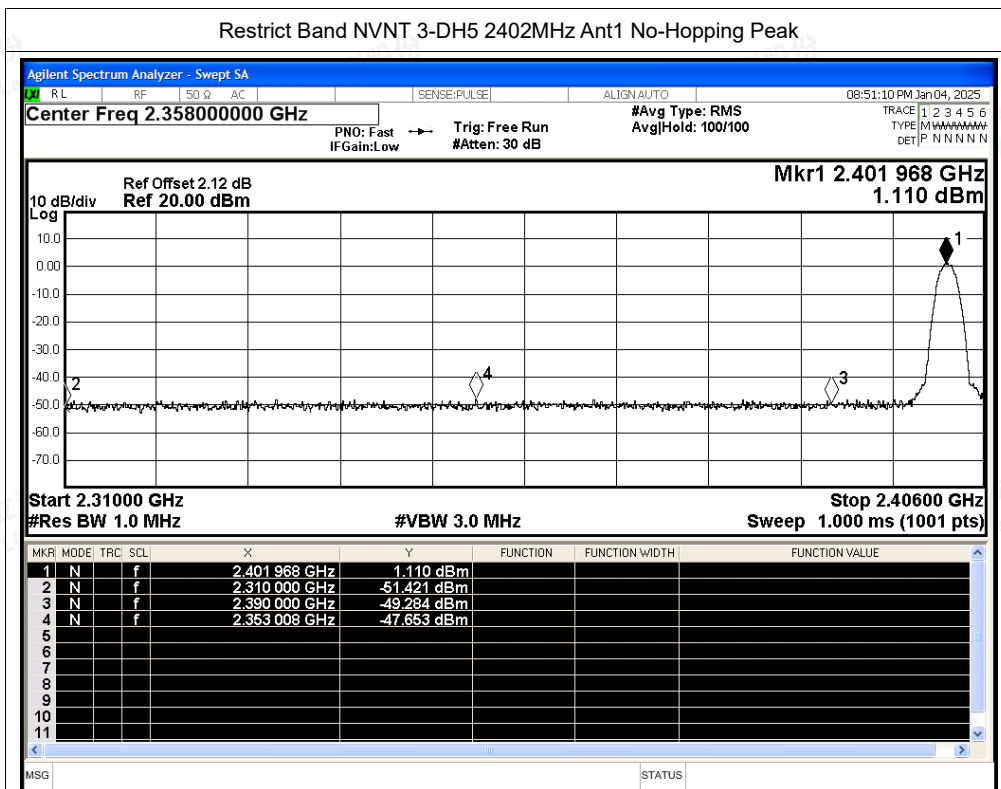


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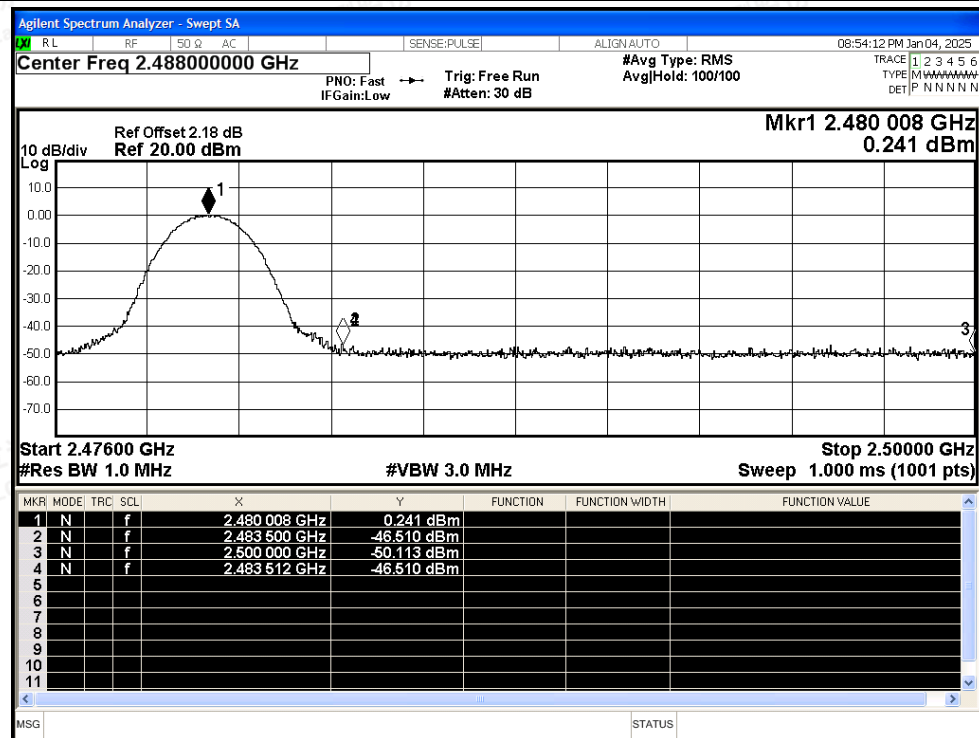
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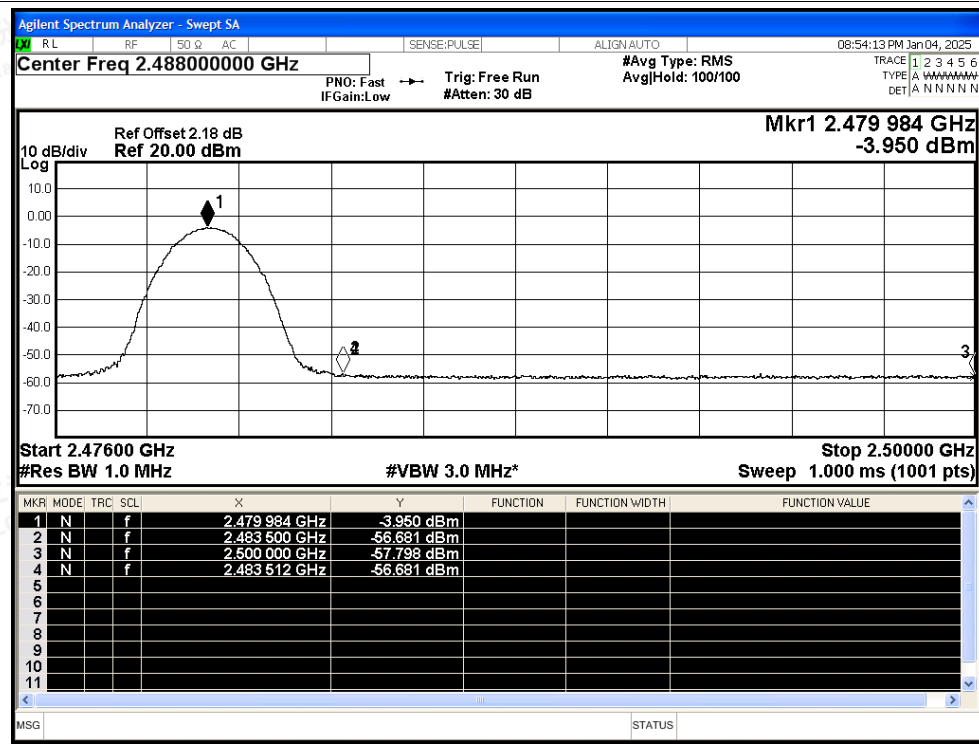
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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