



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: 3D Printer

Test Model: Anycubic Kobra 3 Max

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
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	1.027	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.955	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.941	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.285	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.28	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.284	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.287	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.315	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.293	N/A	Pass

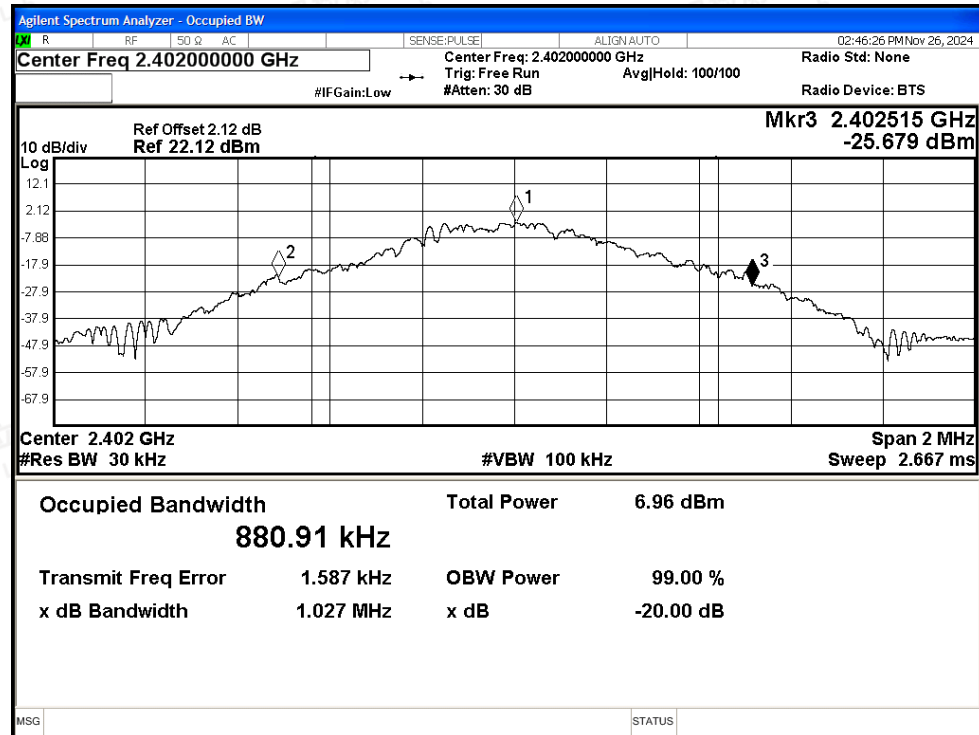


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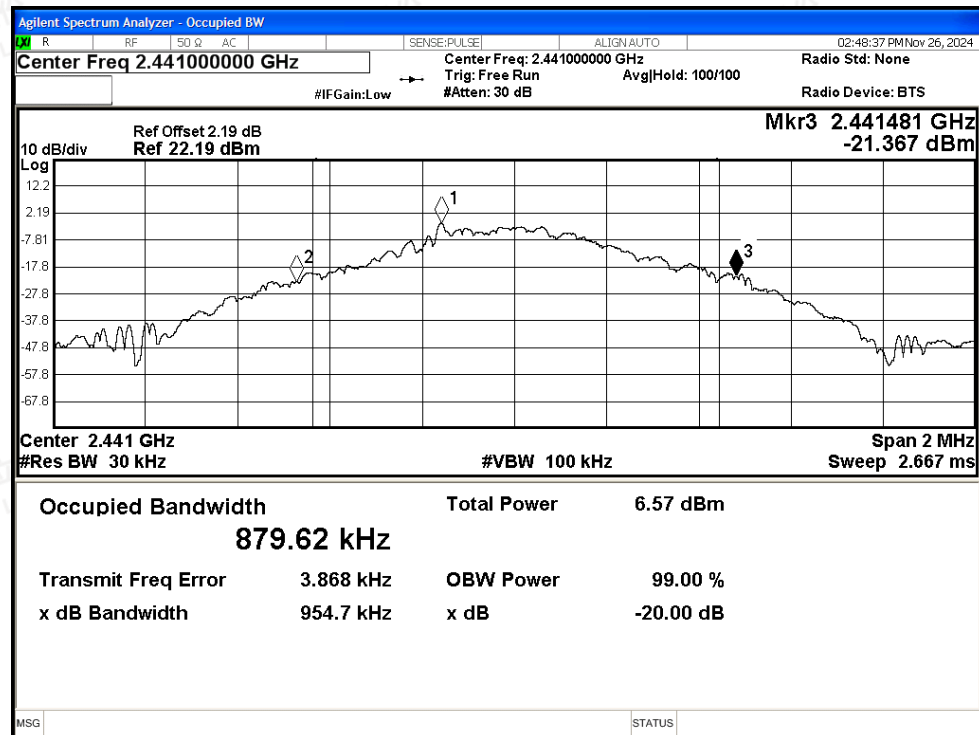


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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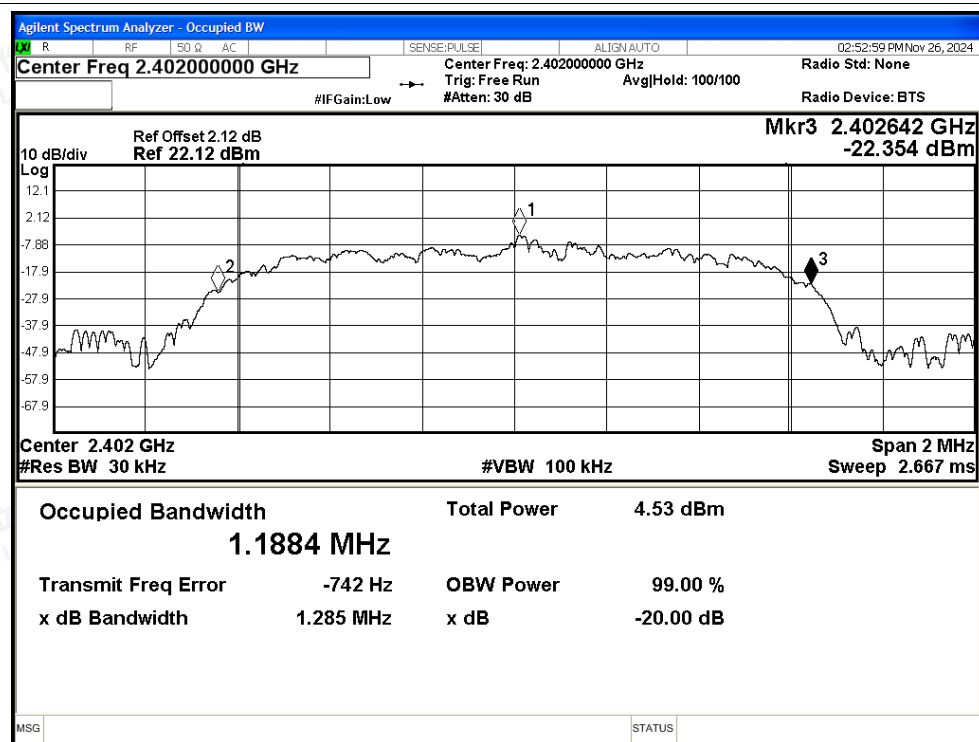
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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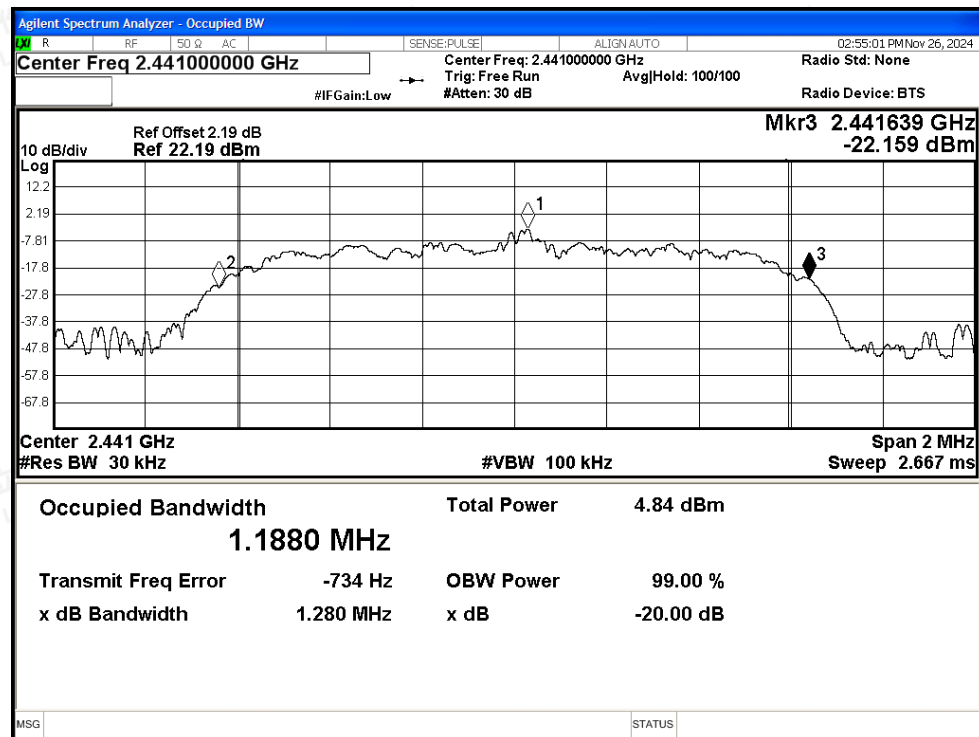
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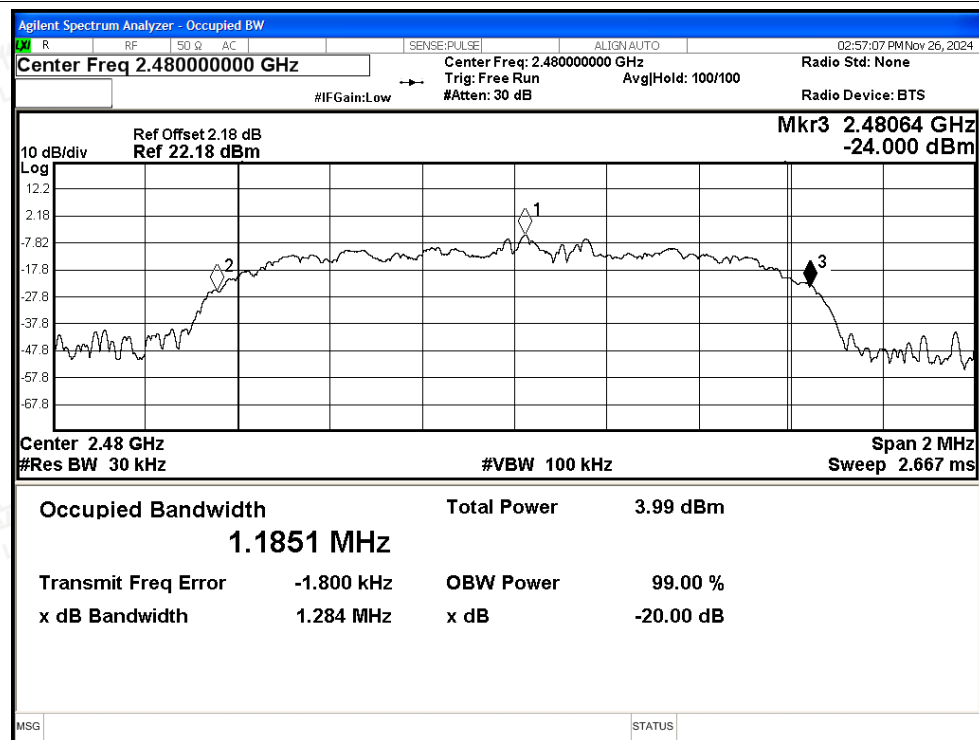
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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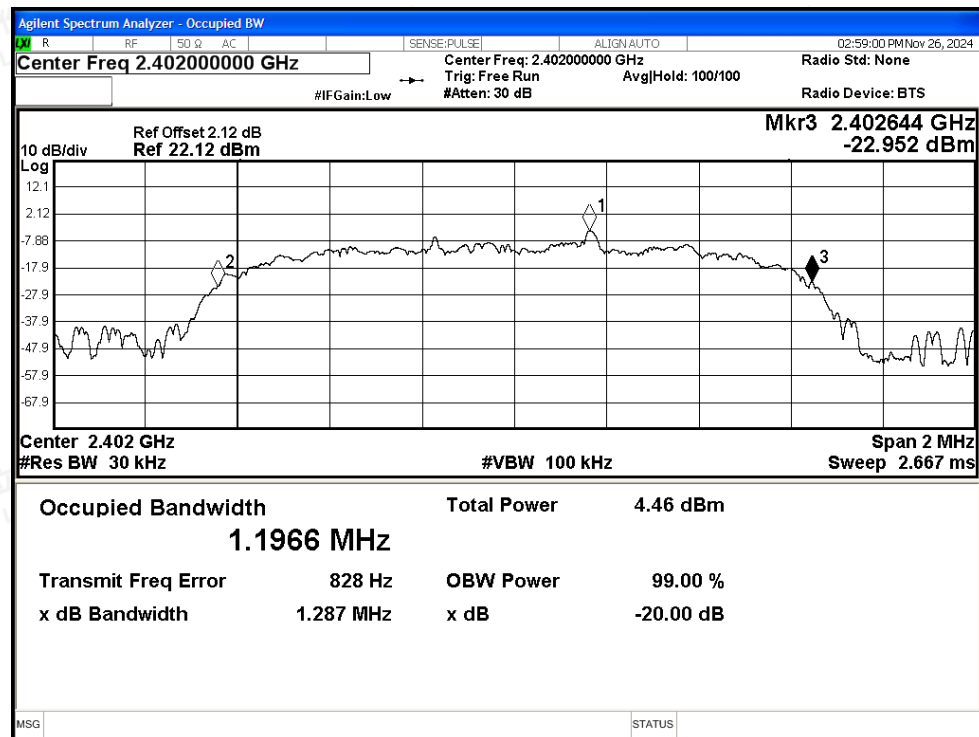
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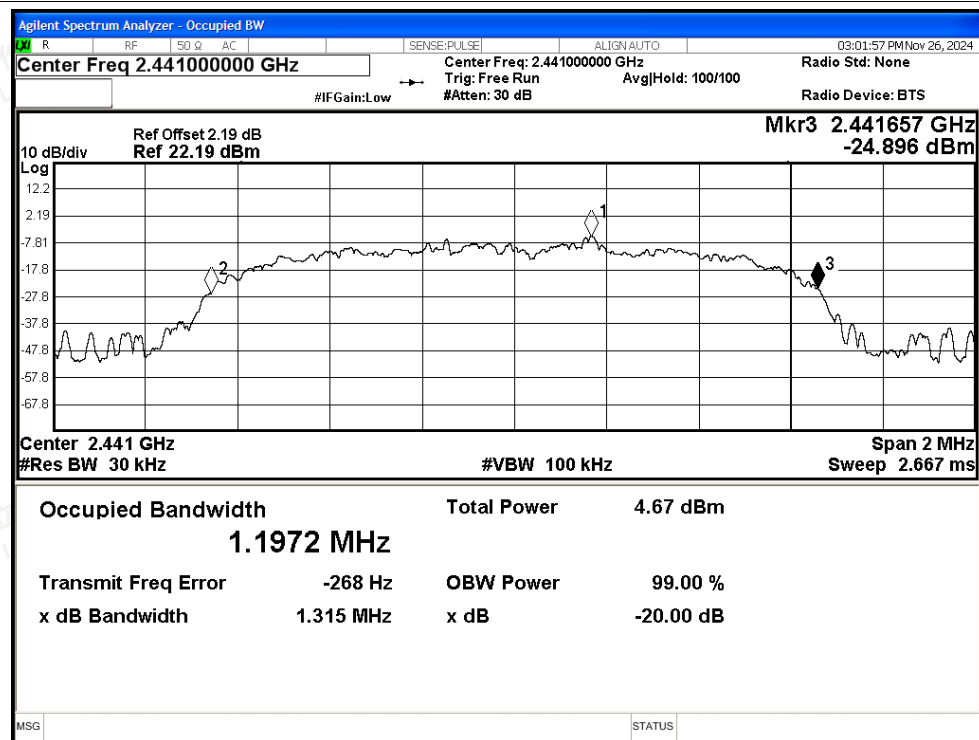
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

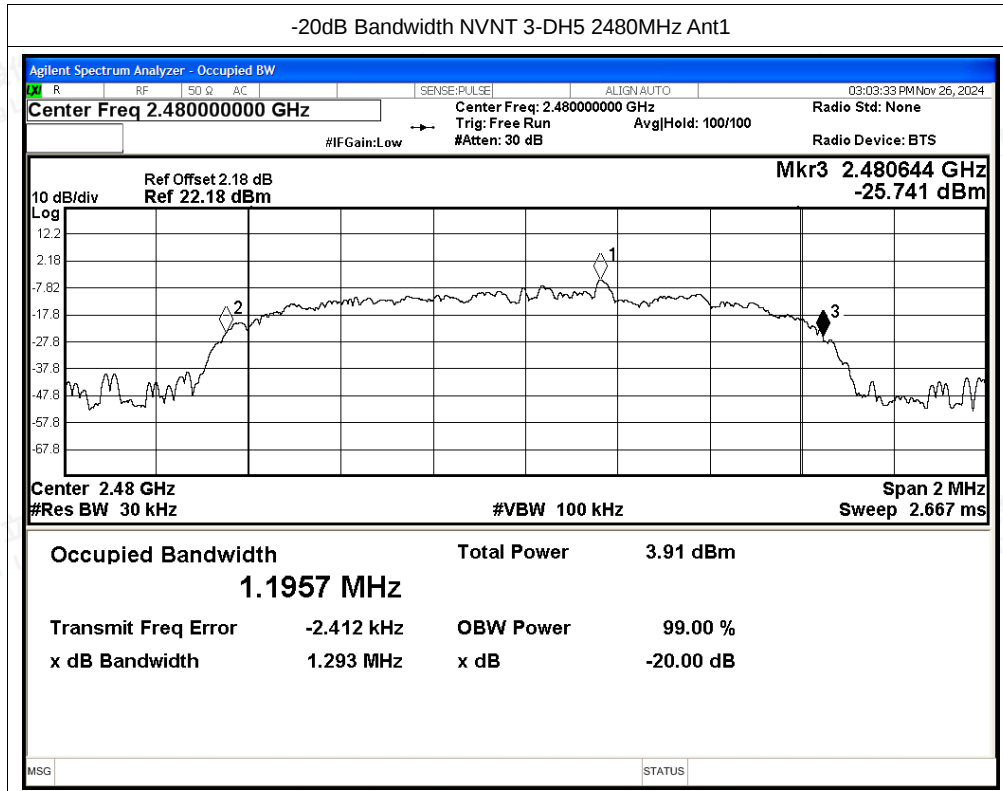


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.67	21	Pass
NVNT	1-DH5	2441	Ant1	0.11	21	Pass
NVNT	1-DH5	2480	Ant1	0.35	21	Pass
NVNT	2-DH5	2402	Ant1	0.31	21	Pass
NVNT	2-DH5	2441	Ant1	0.61	21	Pass
NVNT	2-DH5	2480	Ant1	-0.41	21	Pass
NVNT	3-DH5	2402	Ant1	0.72	21	Pass
NVNT	3-DH5	2441	Ant1	1.02	21	Pass
NVNT	3-DH5	2480	Ant1	-0.05	21	Pass

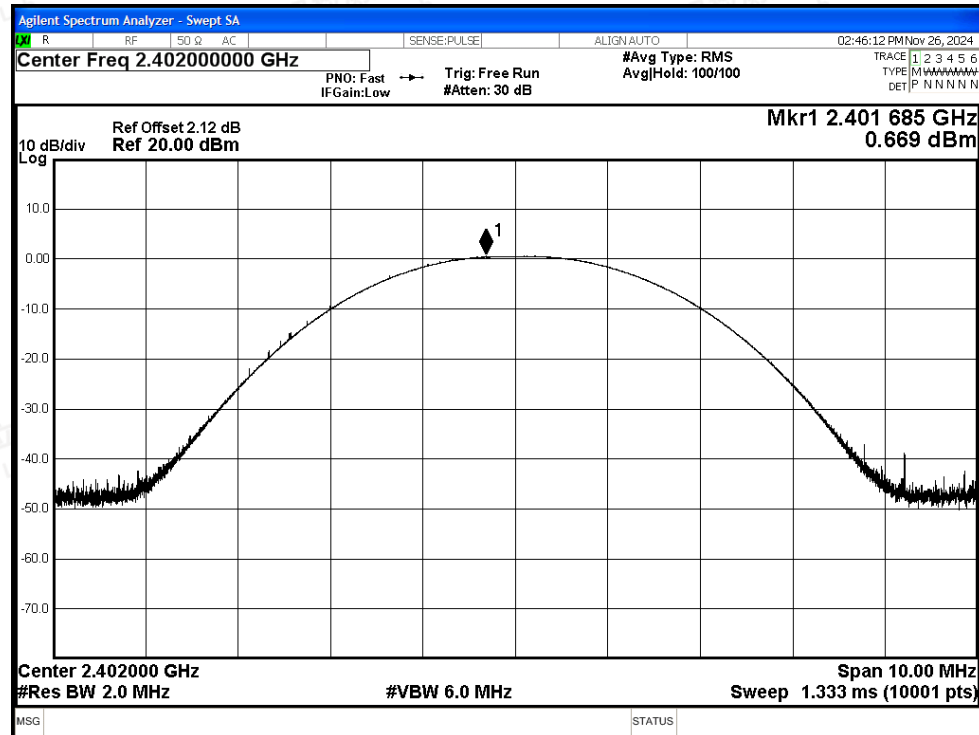


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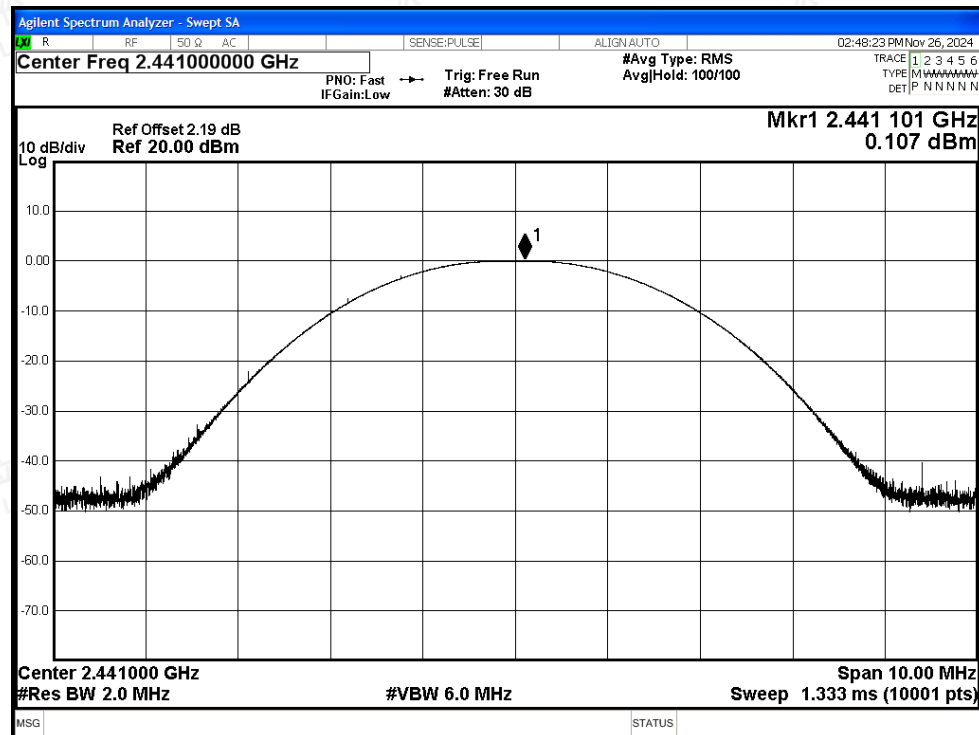


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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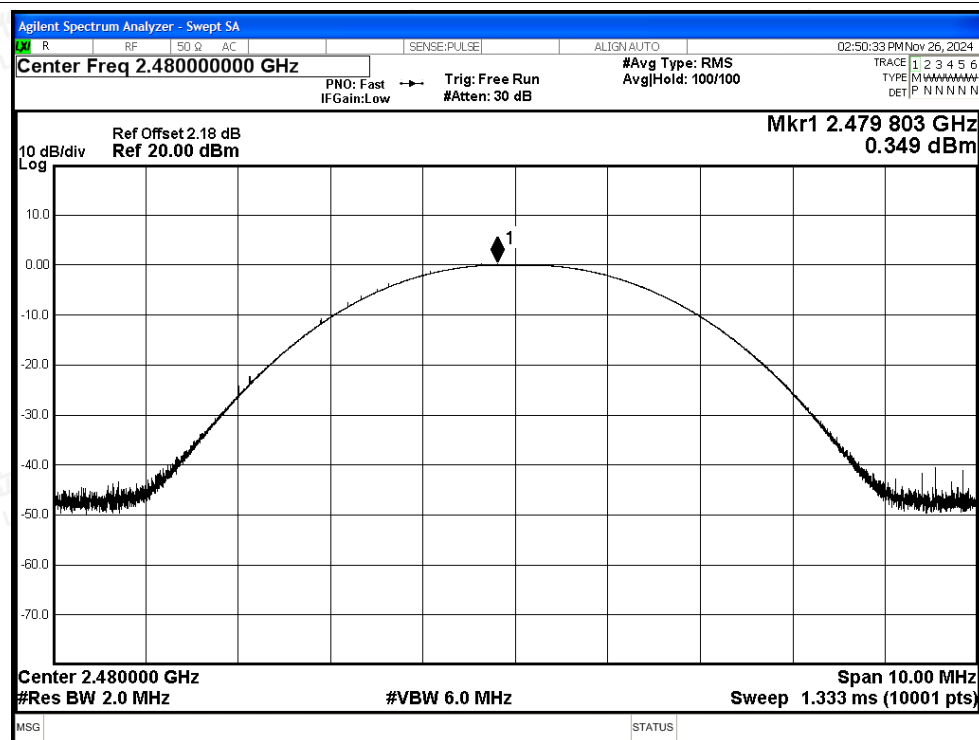
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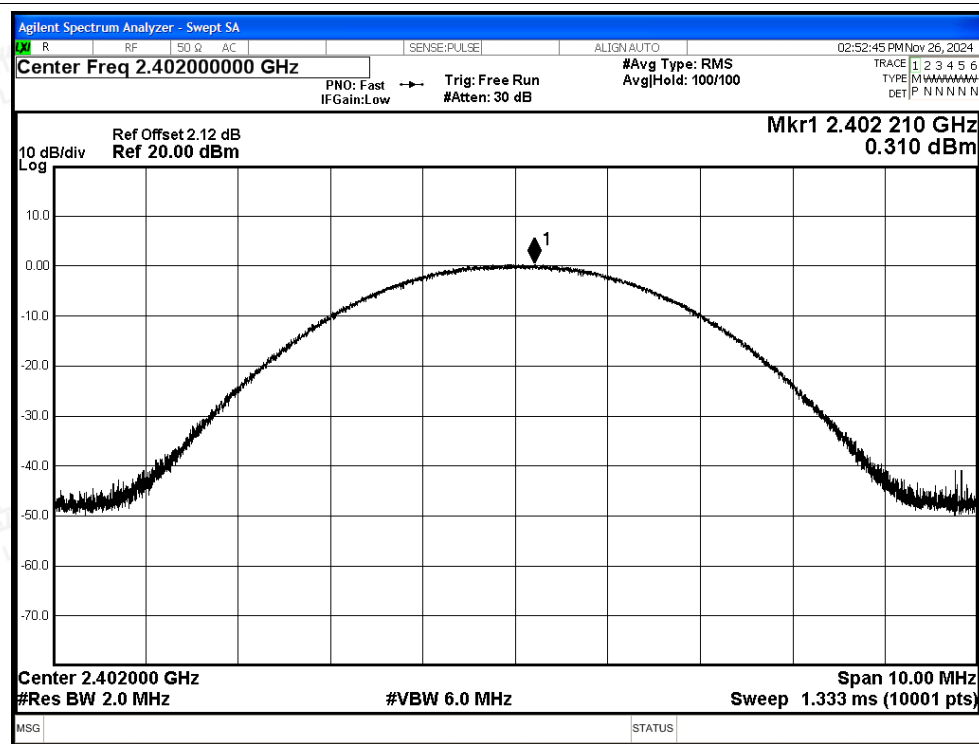
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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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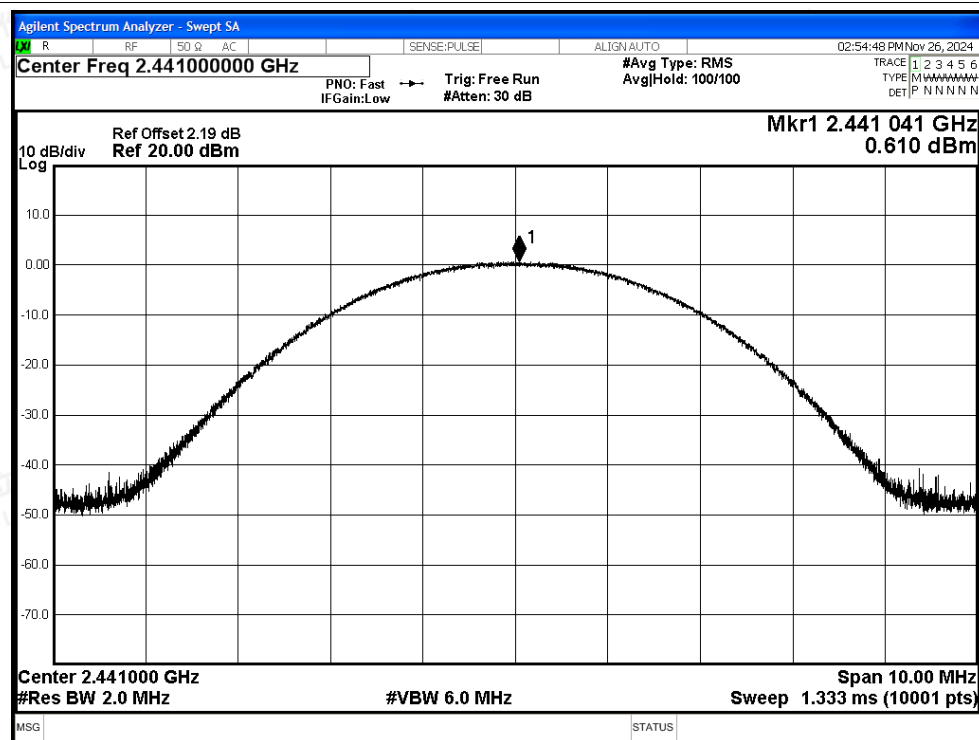
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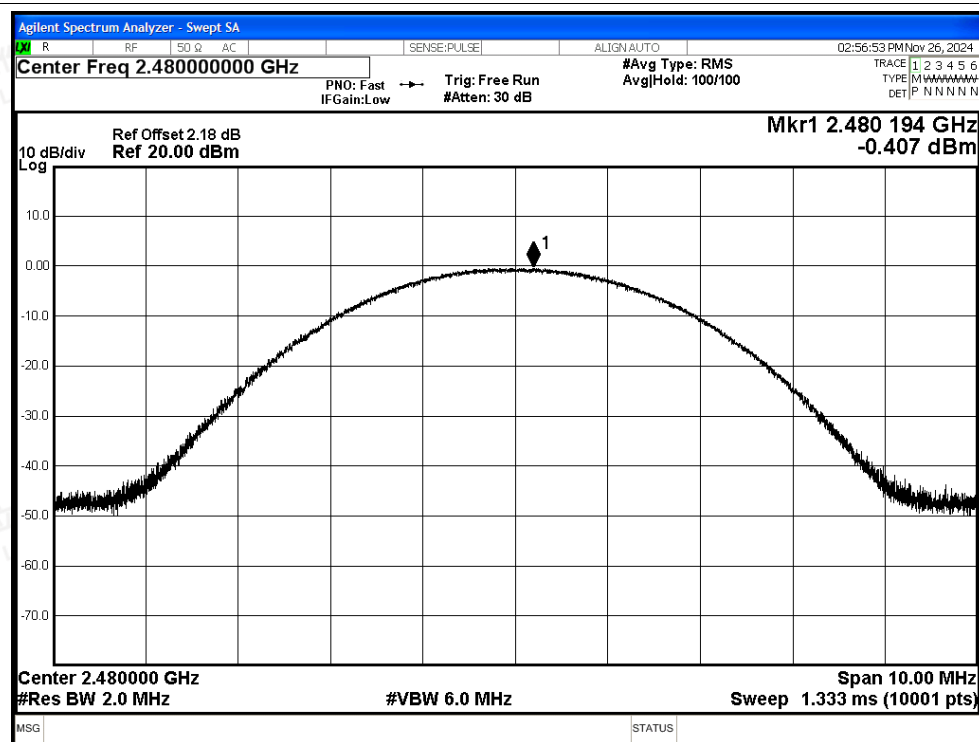
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Power NVNT 2-DH5 2441MHz Ant1

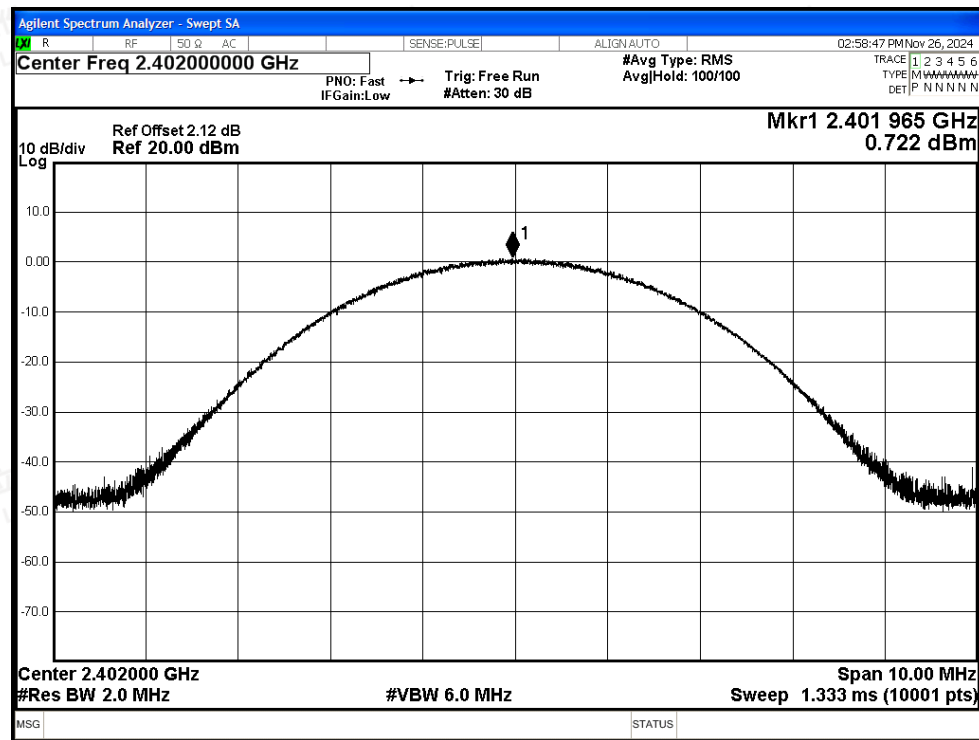


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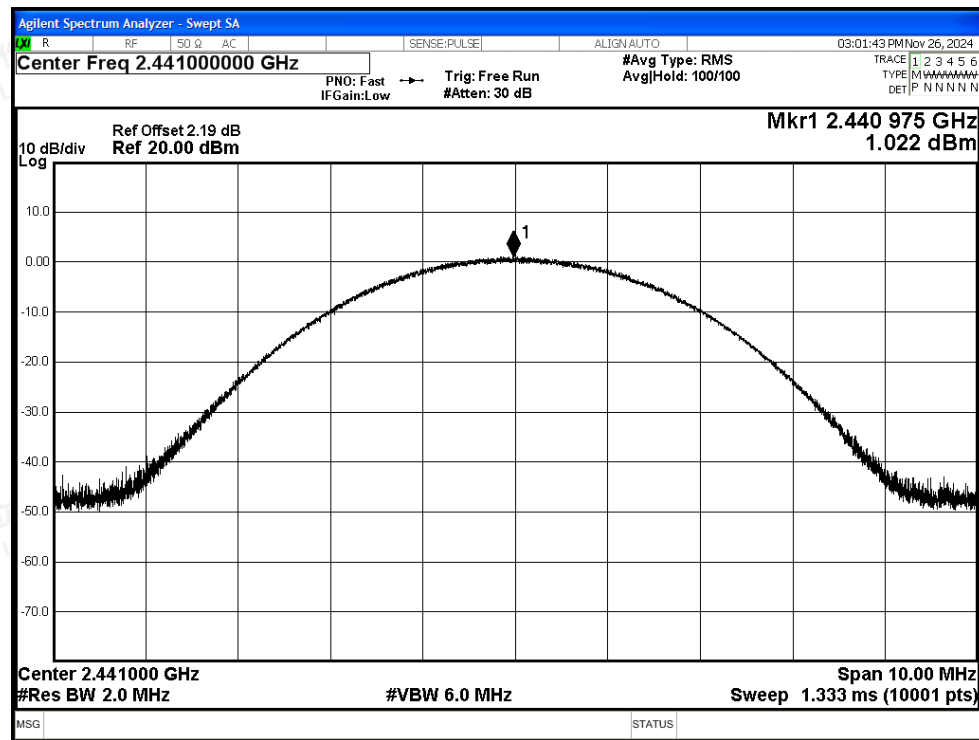




Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

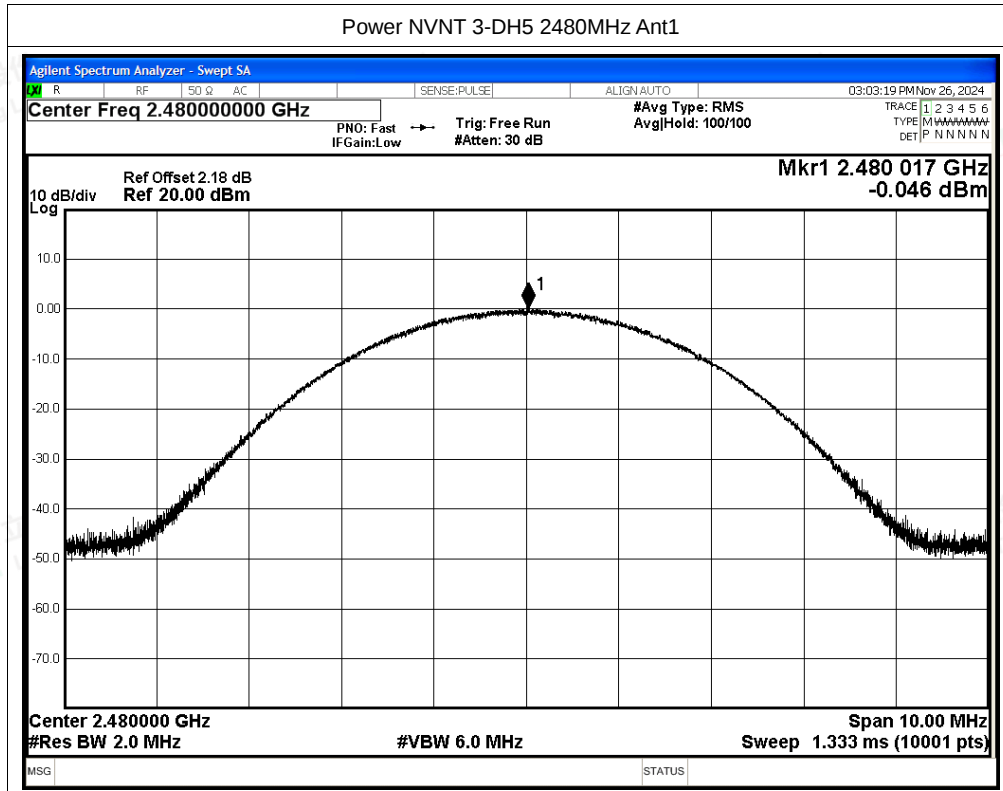


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.844	2403.012	1.168	0.685	Pass
NVNT	2-DH5	Ant1	2402.03	2403.006	0.976	0.857	Pass
NVNT	3-DH5	Ant1	2402.016	2403.028	1.012	0.877	Pass

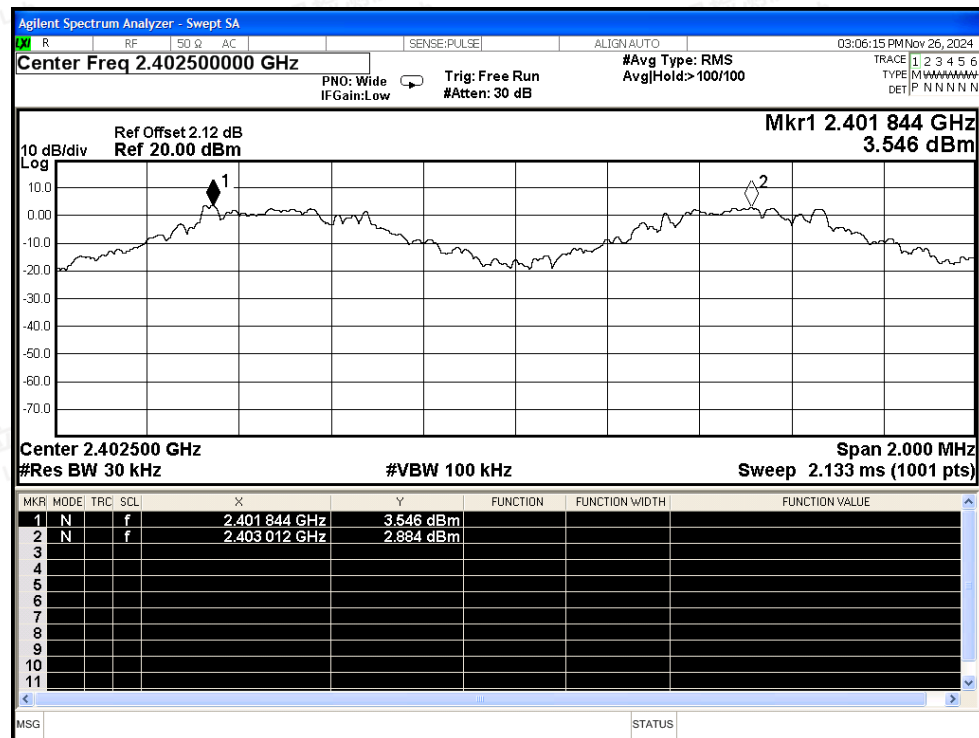


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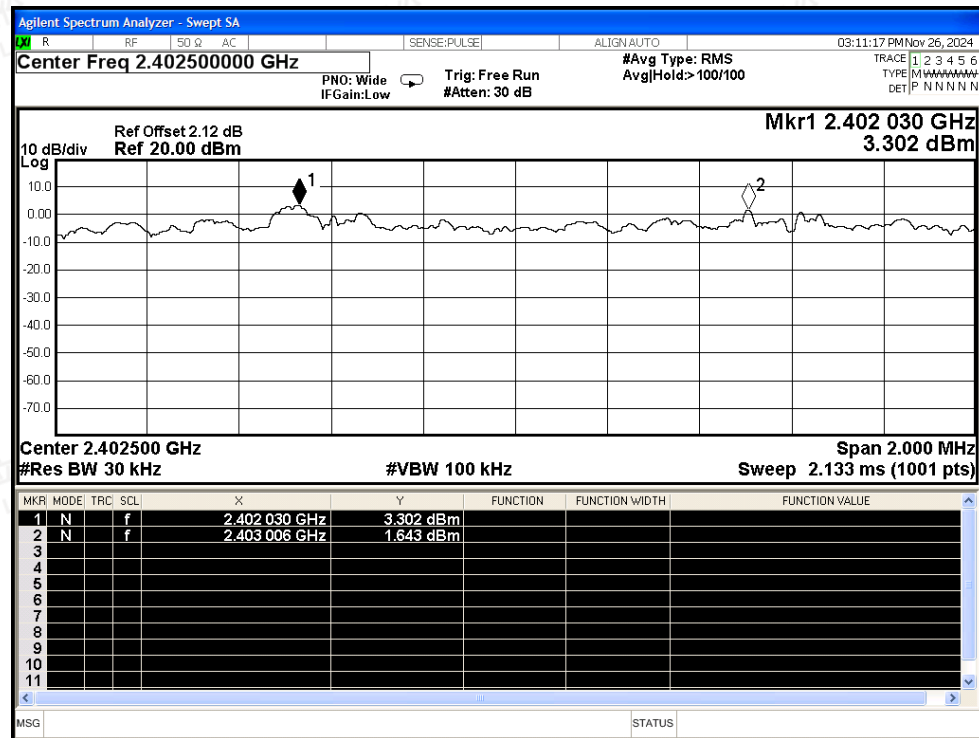


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

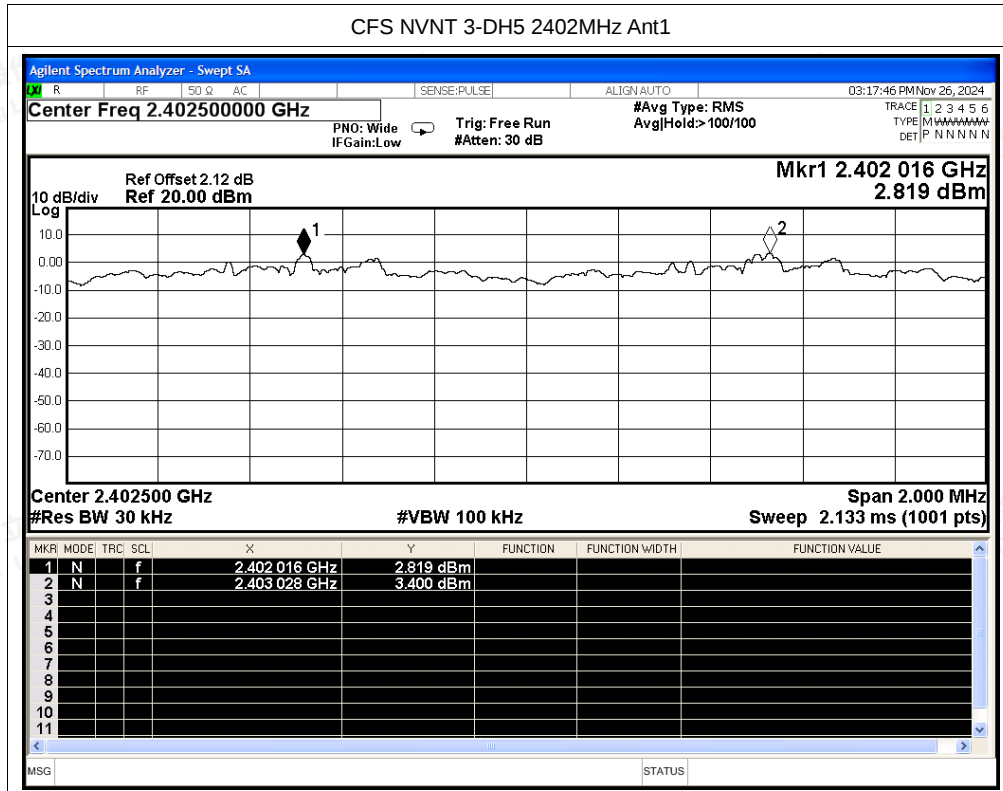


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A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.91	267.72	92	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	315.882	109	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.898	292.698	101	31600	400	Pass

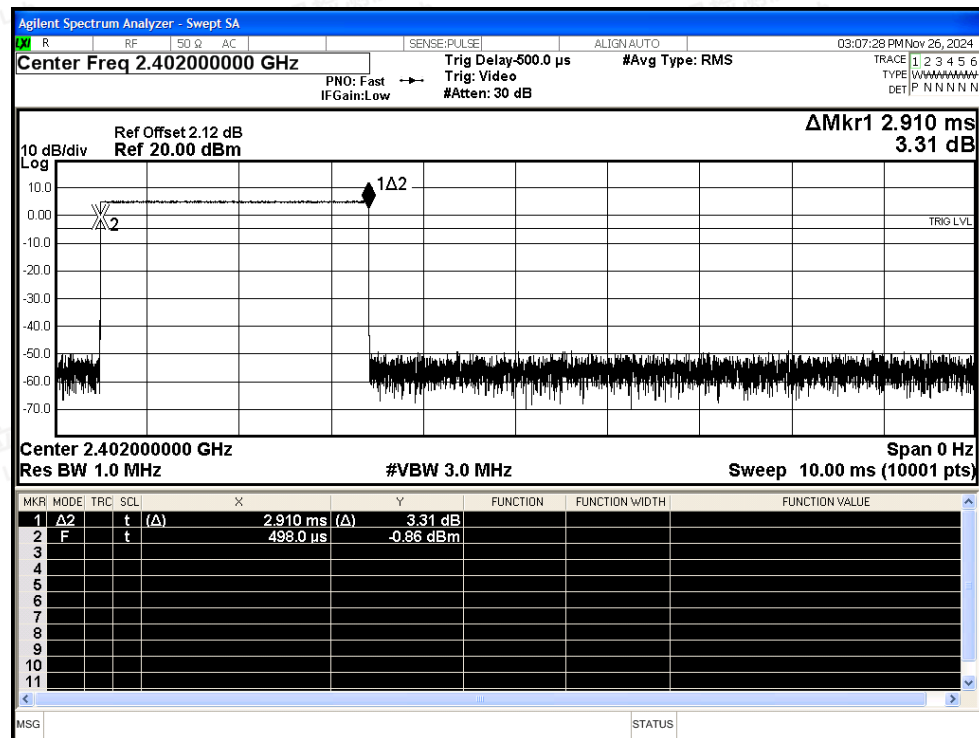


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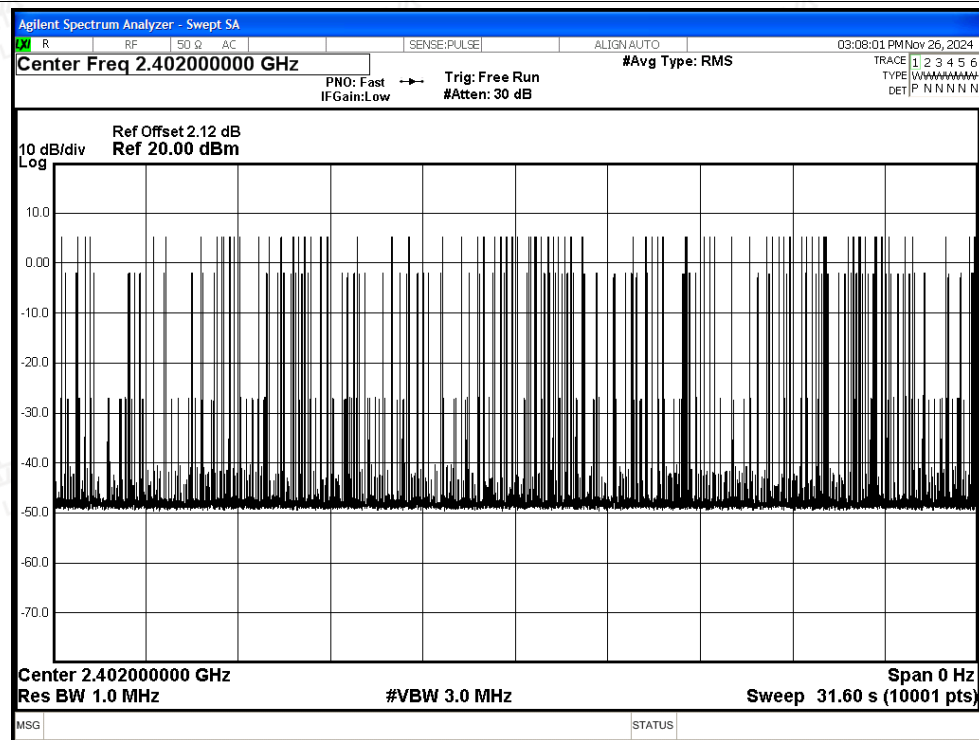


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

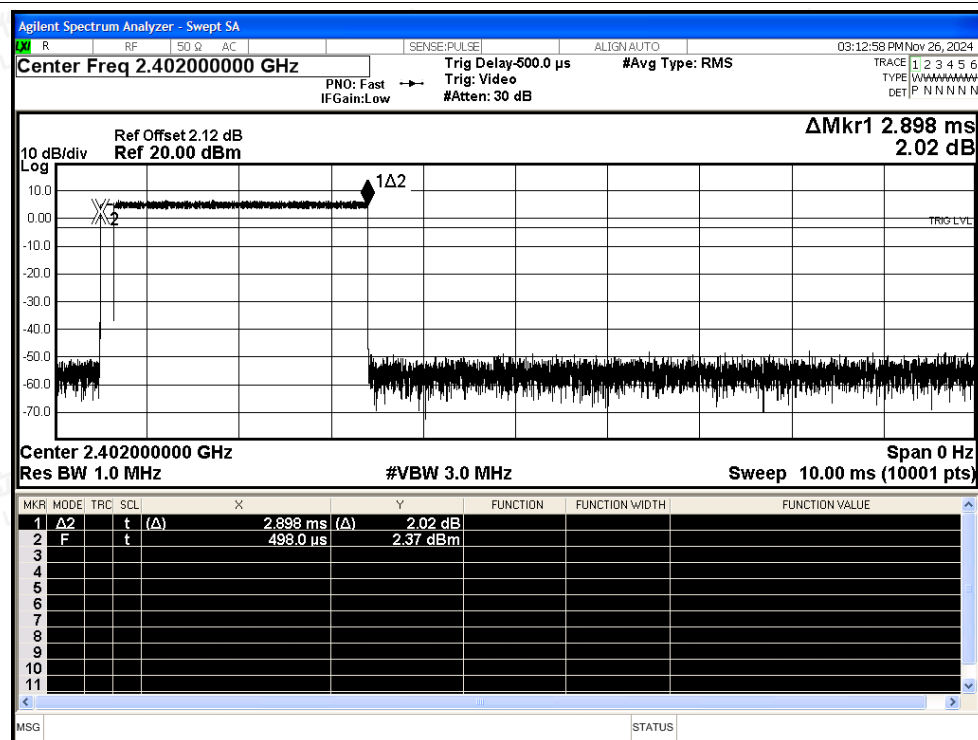
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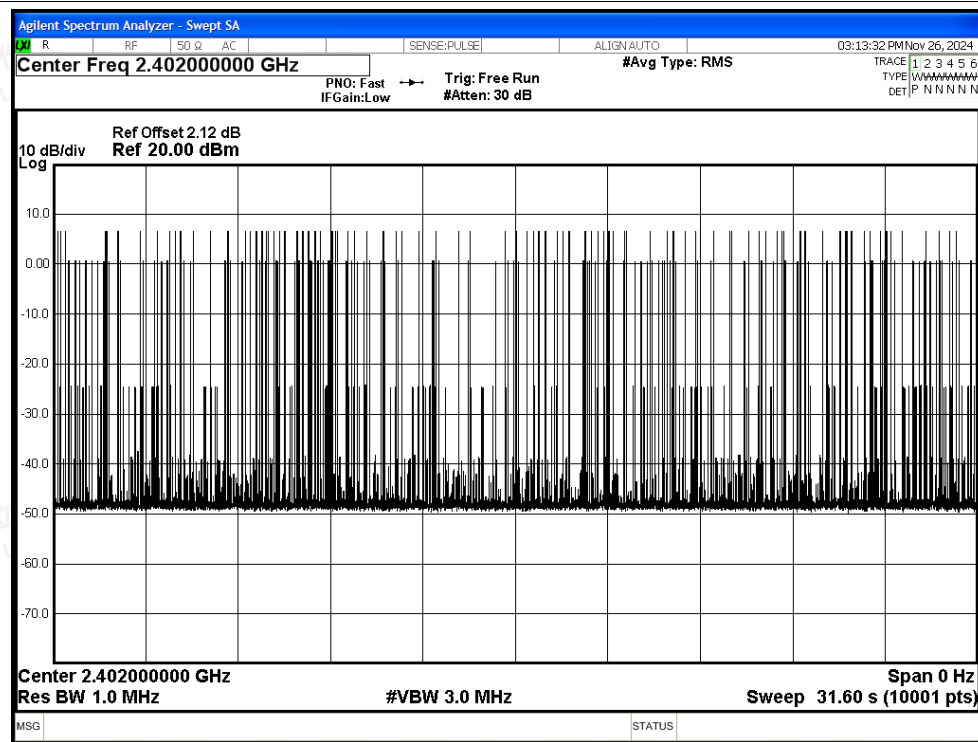
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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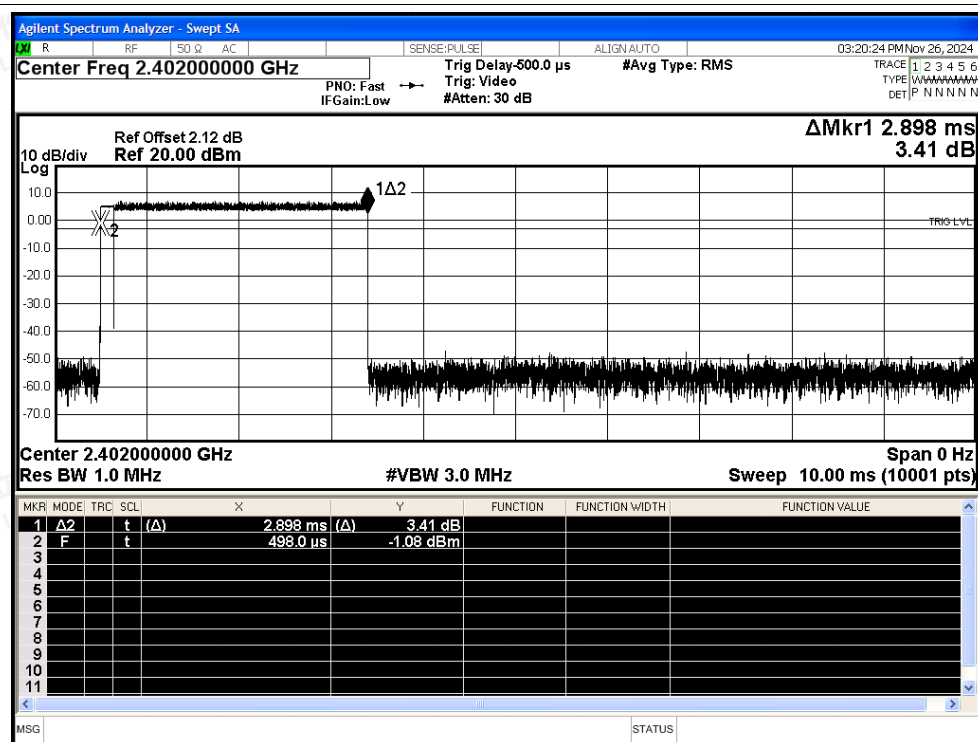
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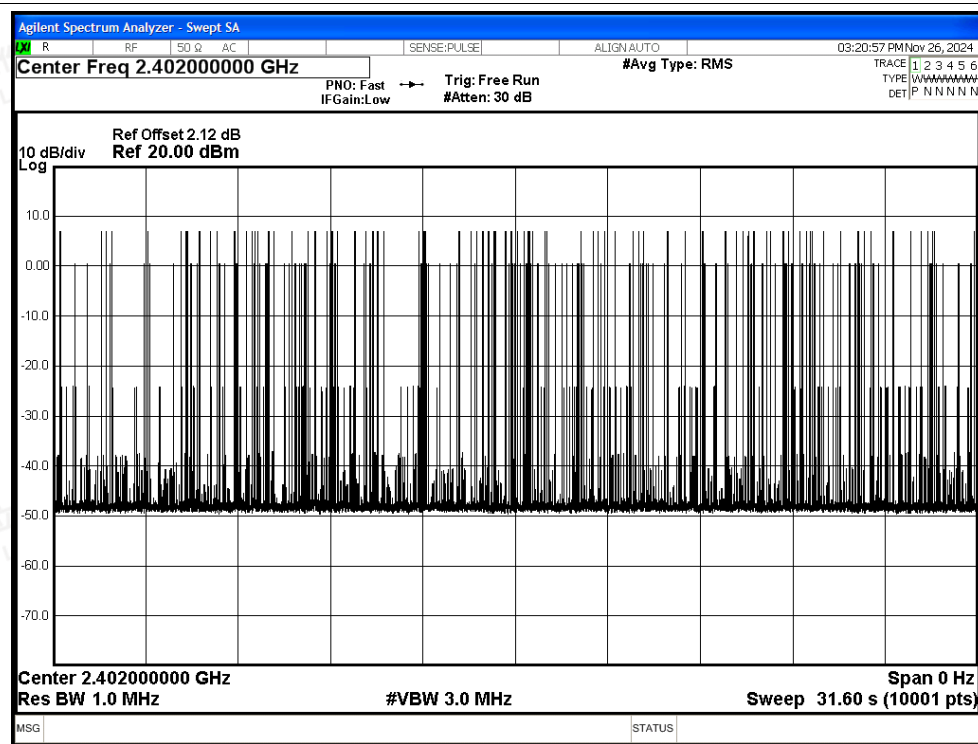
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

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

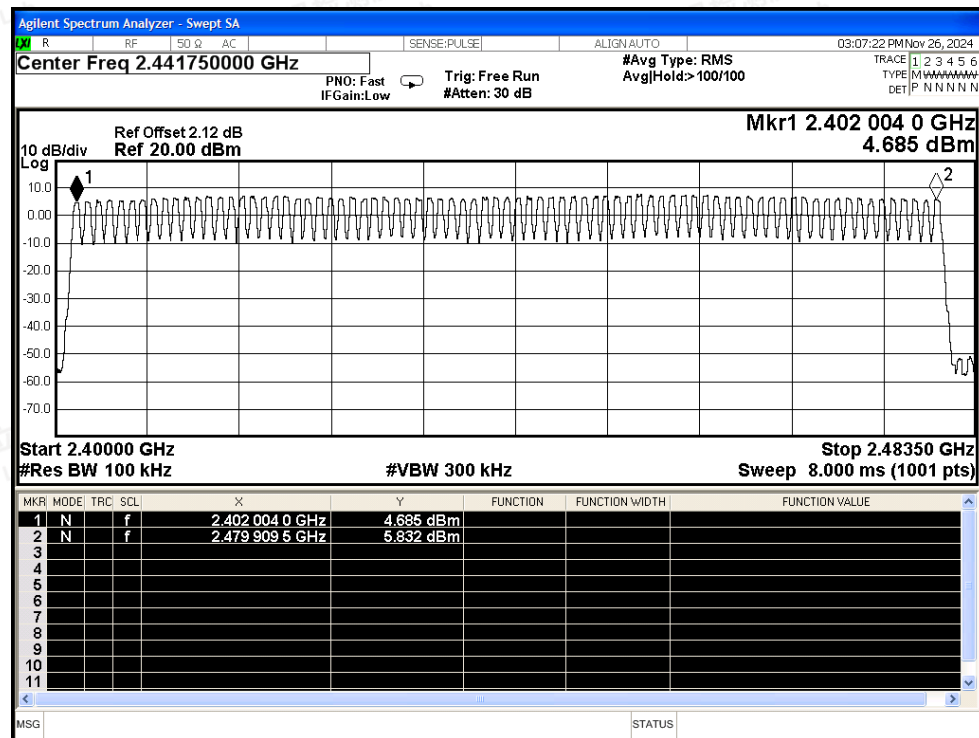


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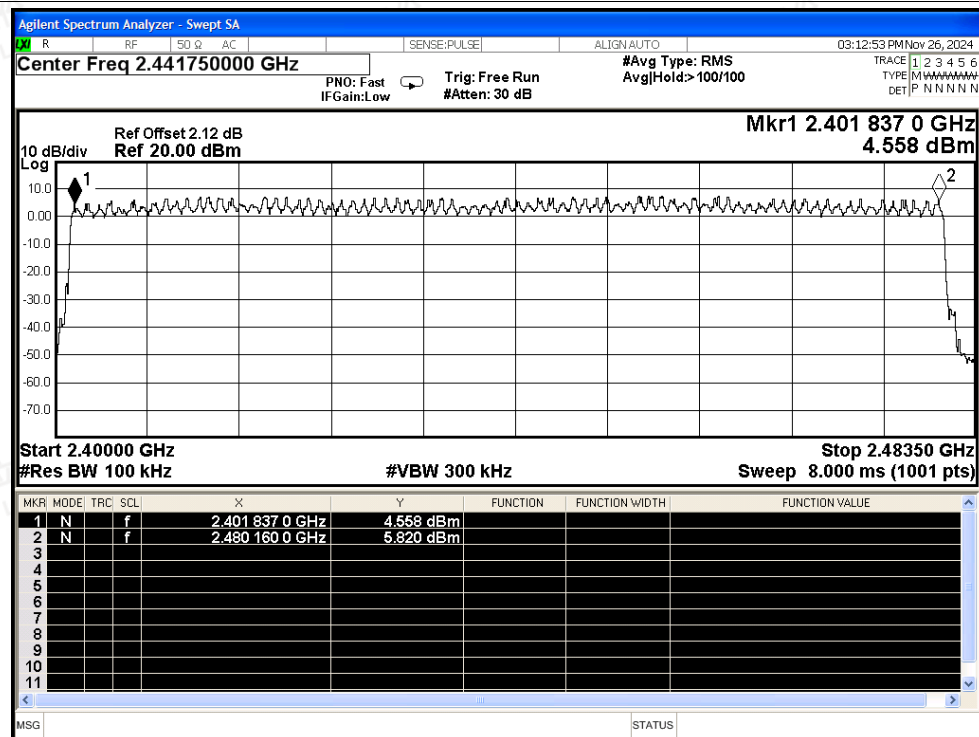


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

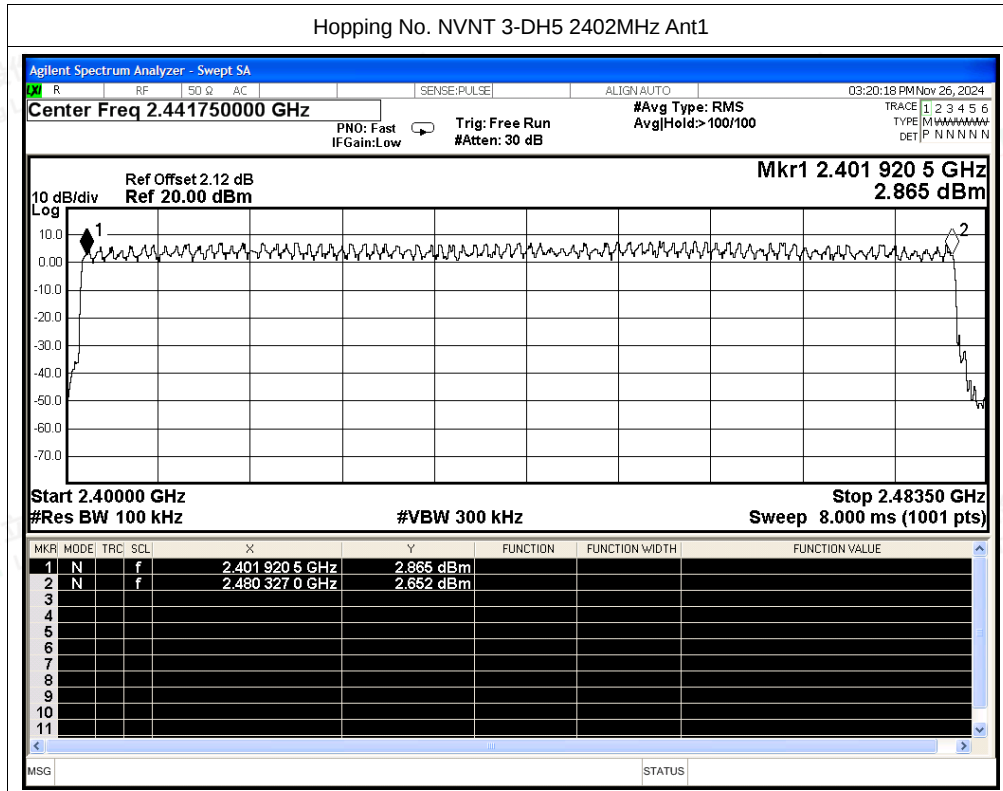


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.82	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.68	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.74	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.77	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.46	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.83	-20	Pass

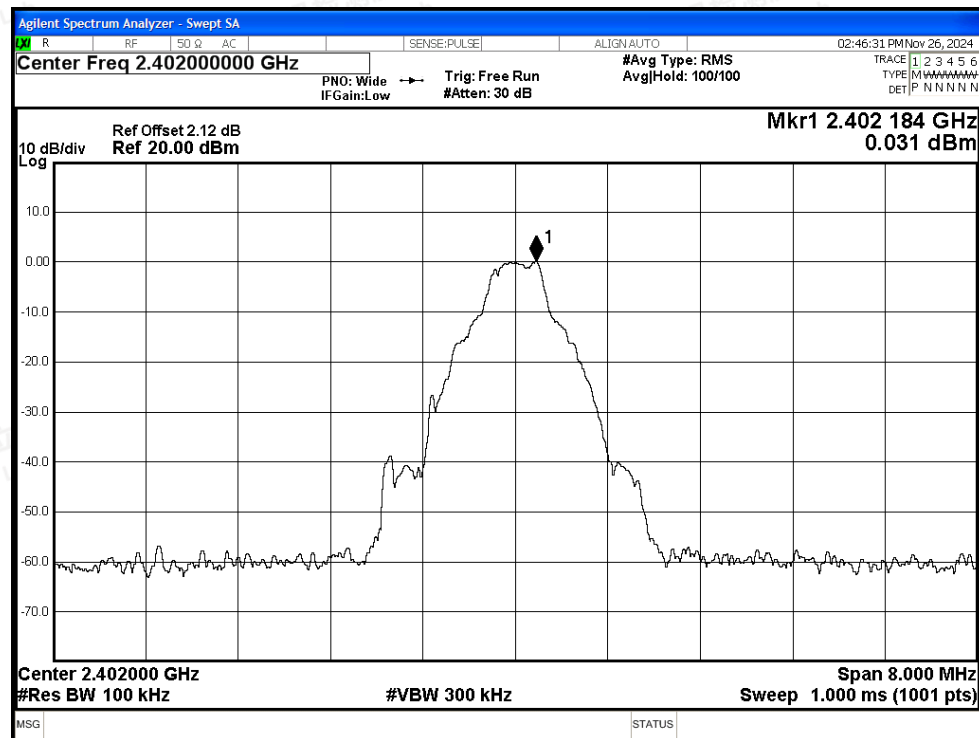


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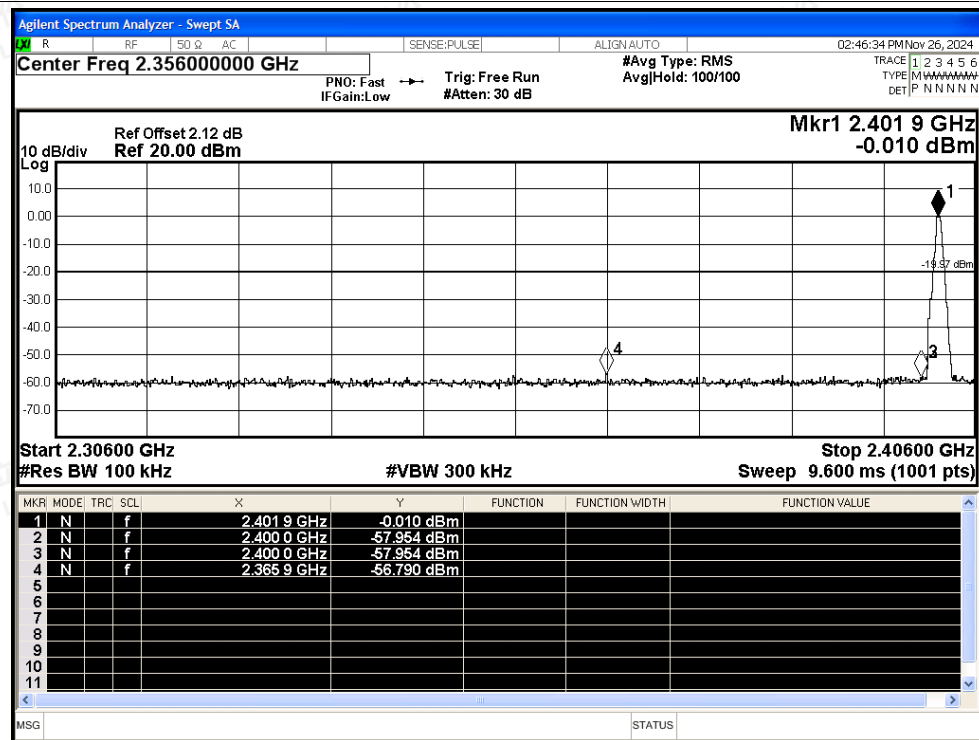


Test Graphs

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



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



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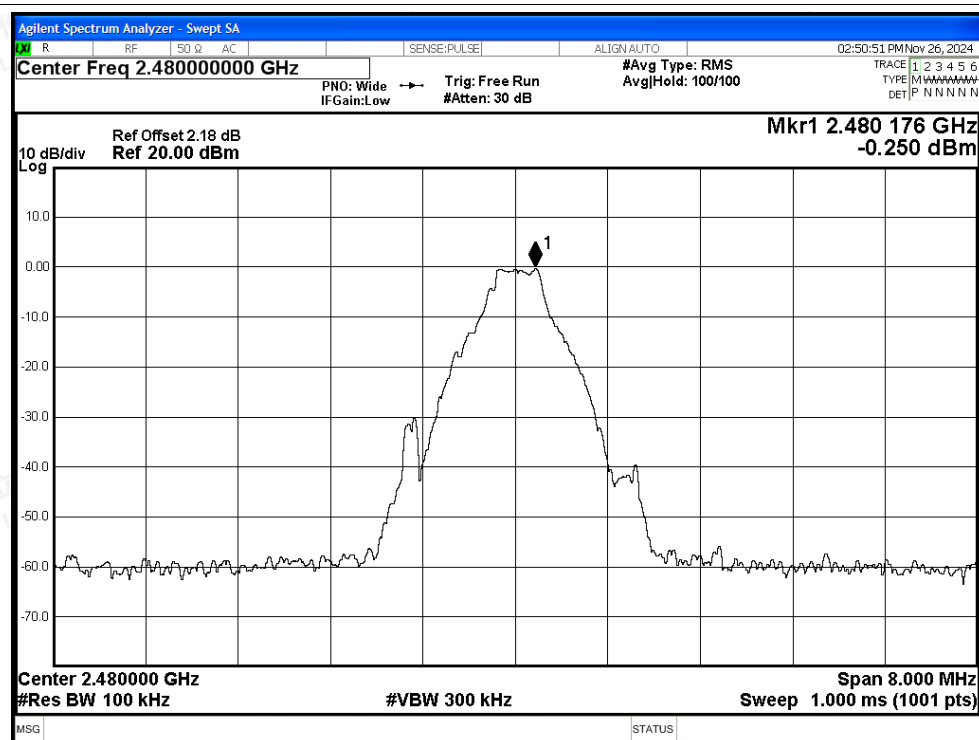
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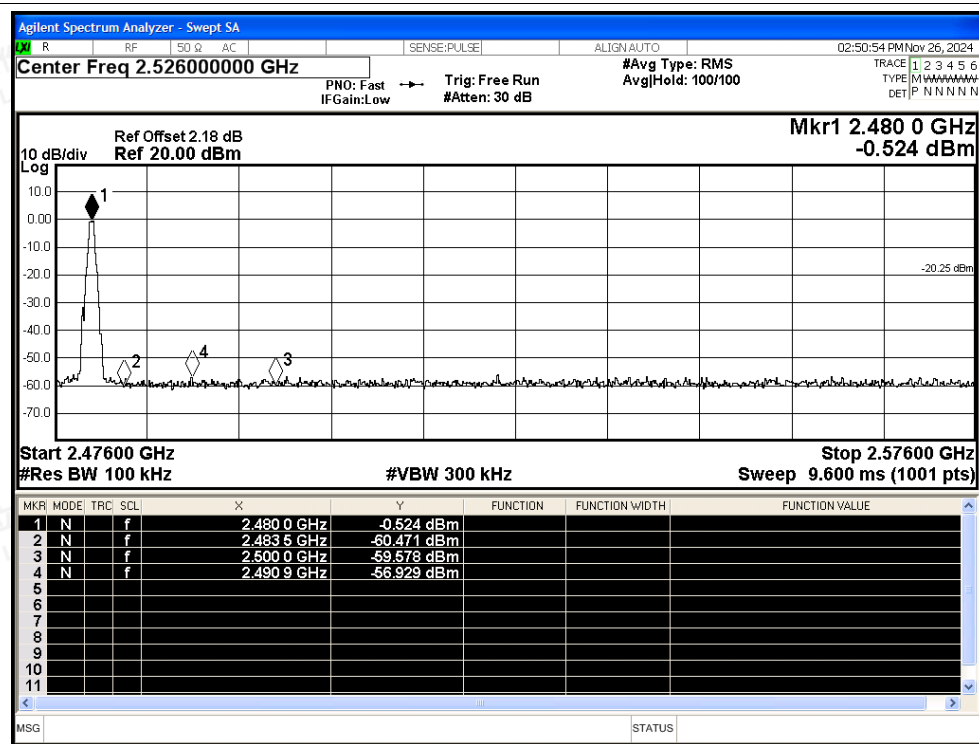
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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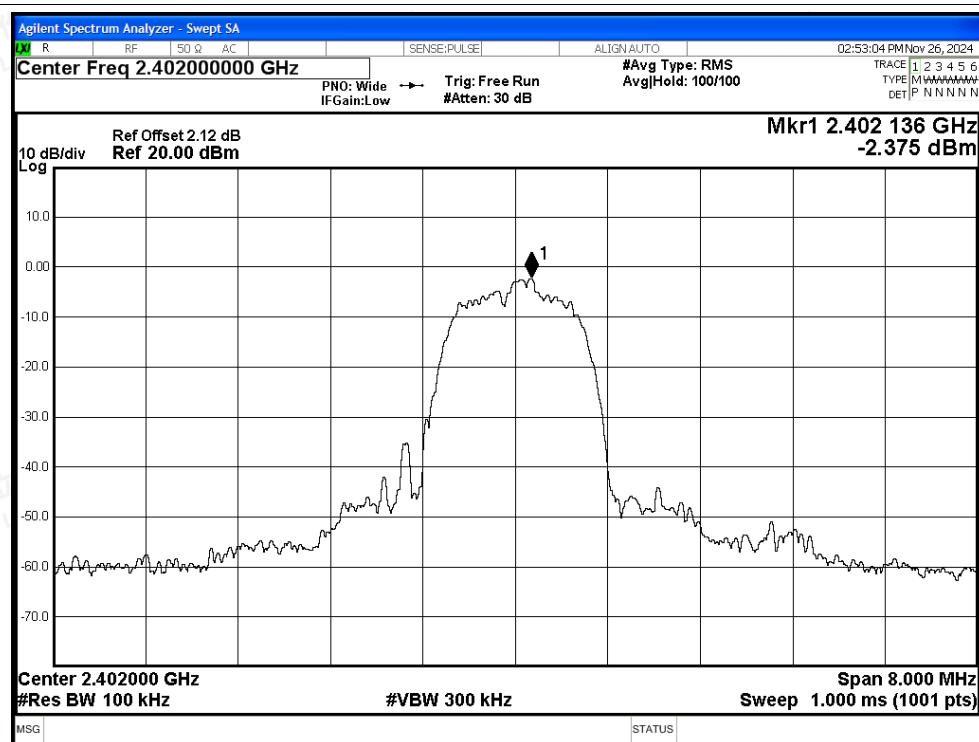
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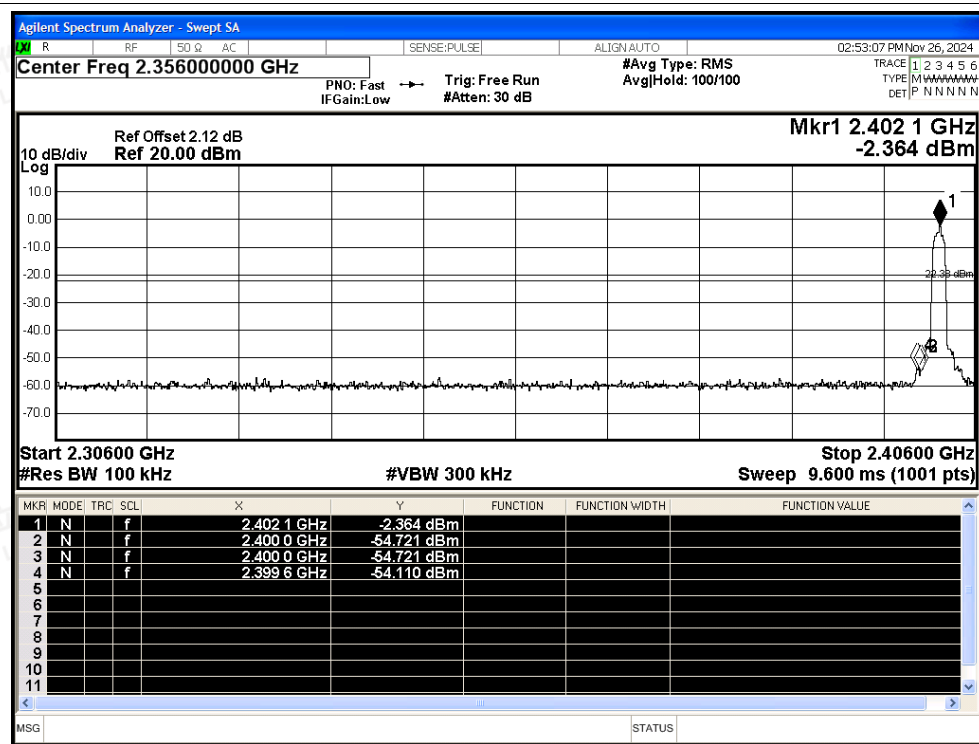
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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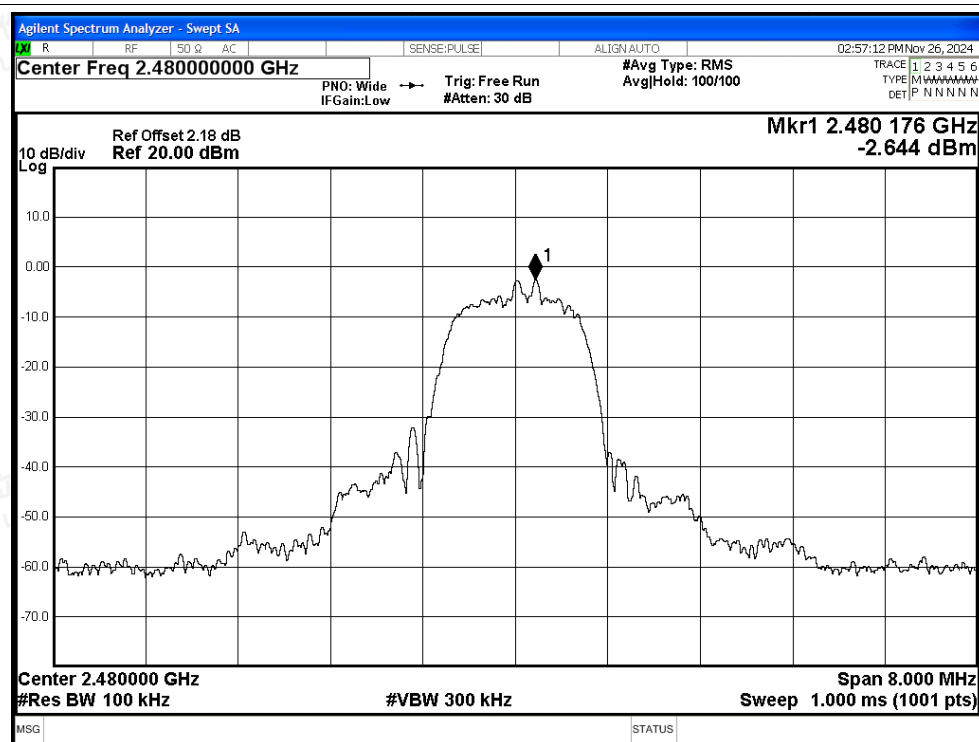
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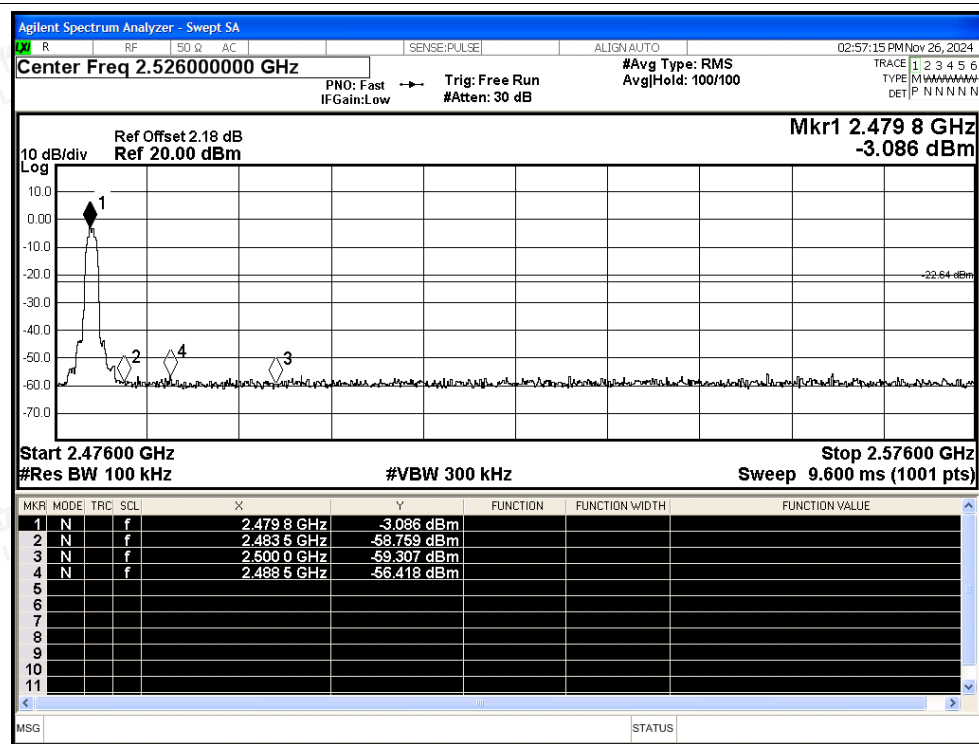
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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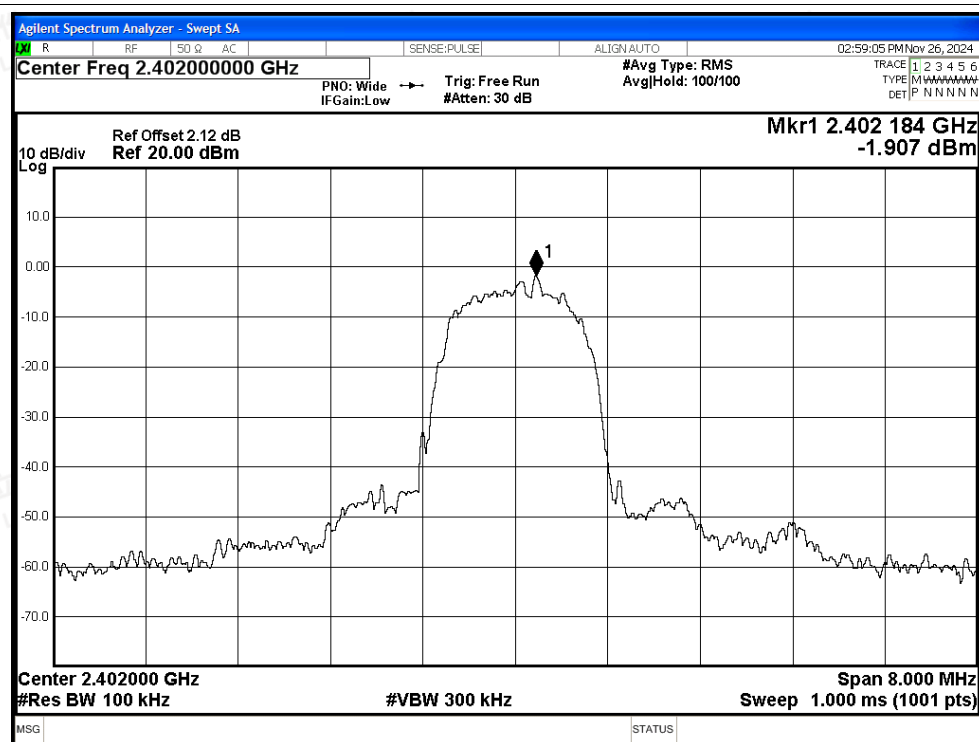
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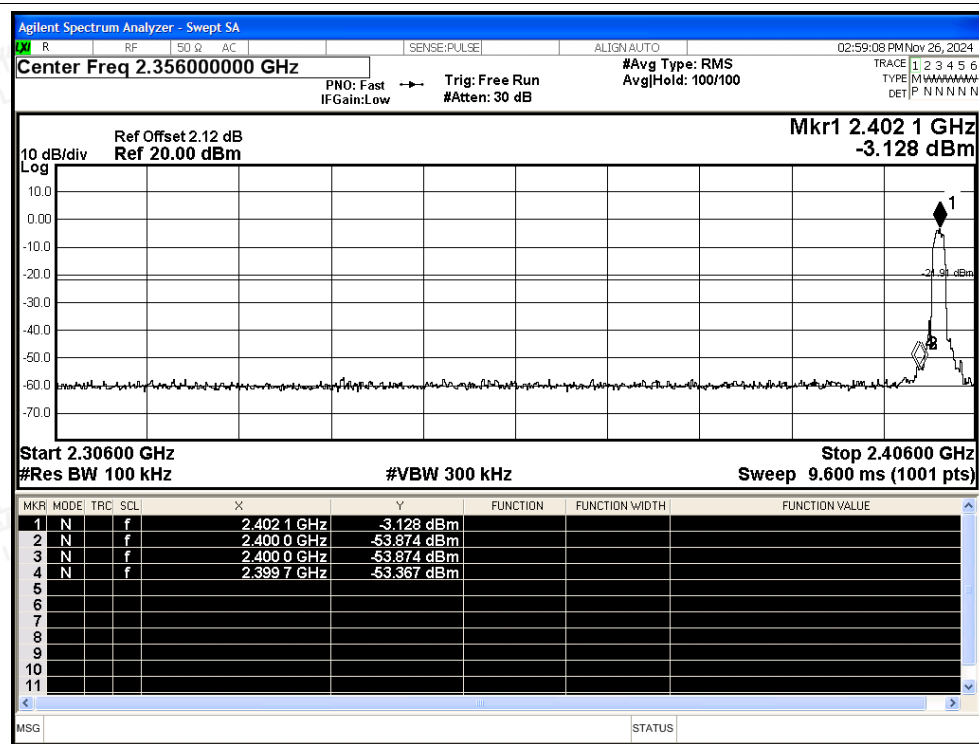
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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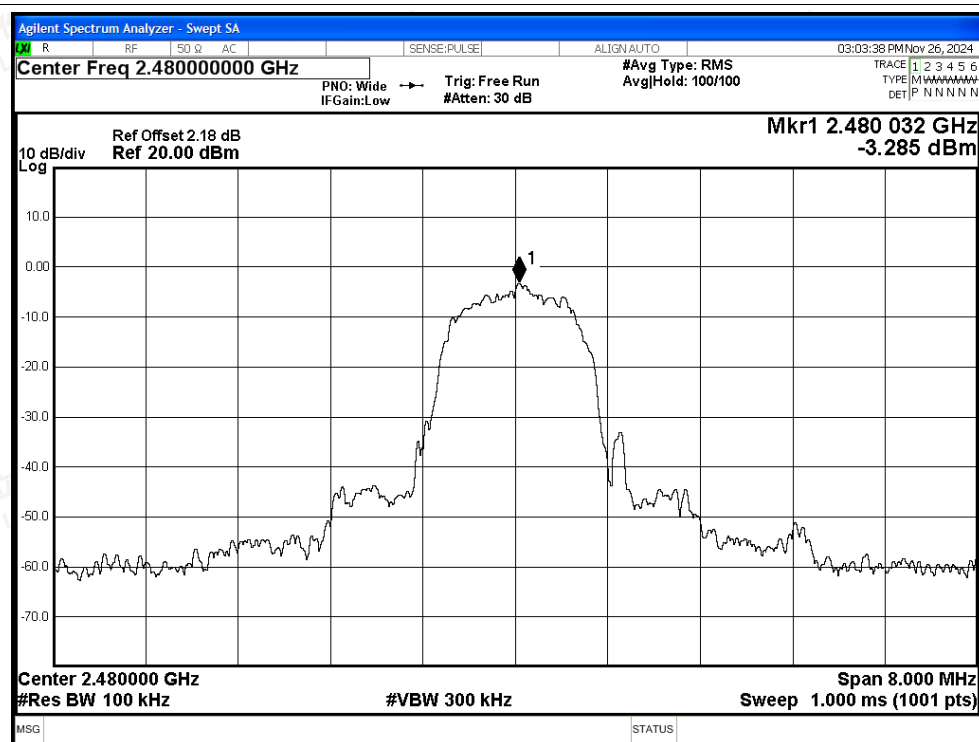
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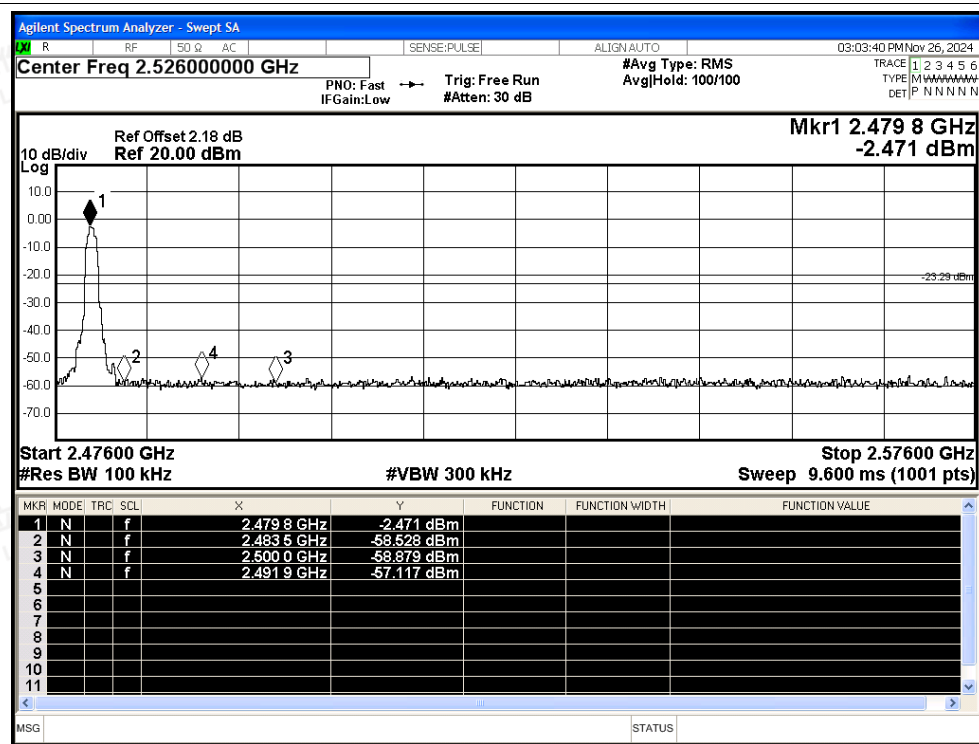
Scan code to check authenticity



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	-61.24	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.46	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-61.25	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-58.11	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-61.8	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.55	-20	Pass

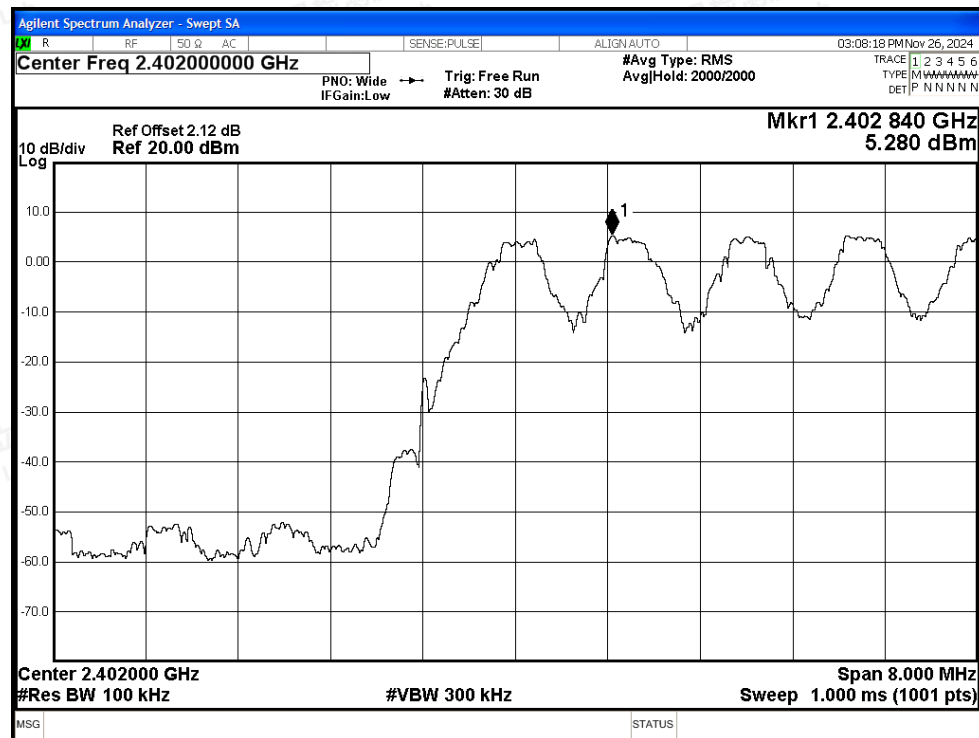


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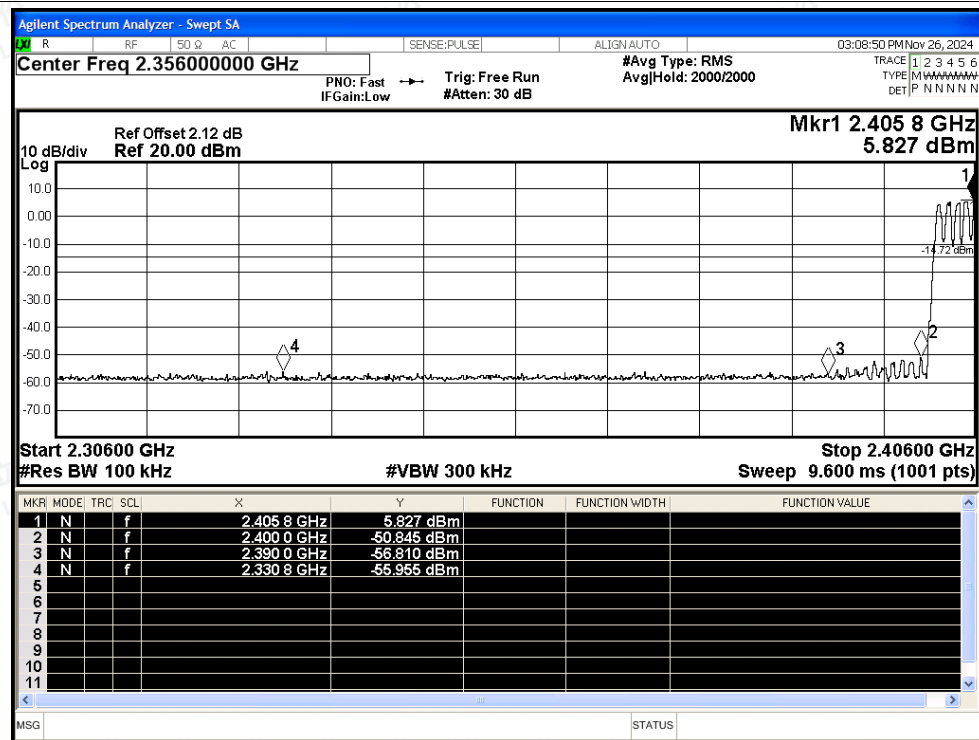


Test Graphs

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



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

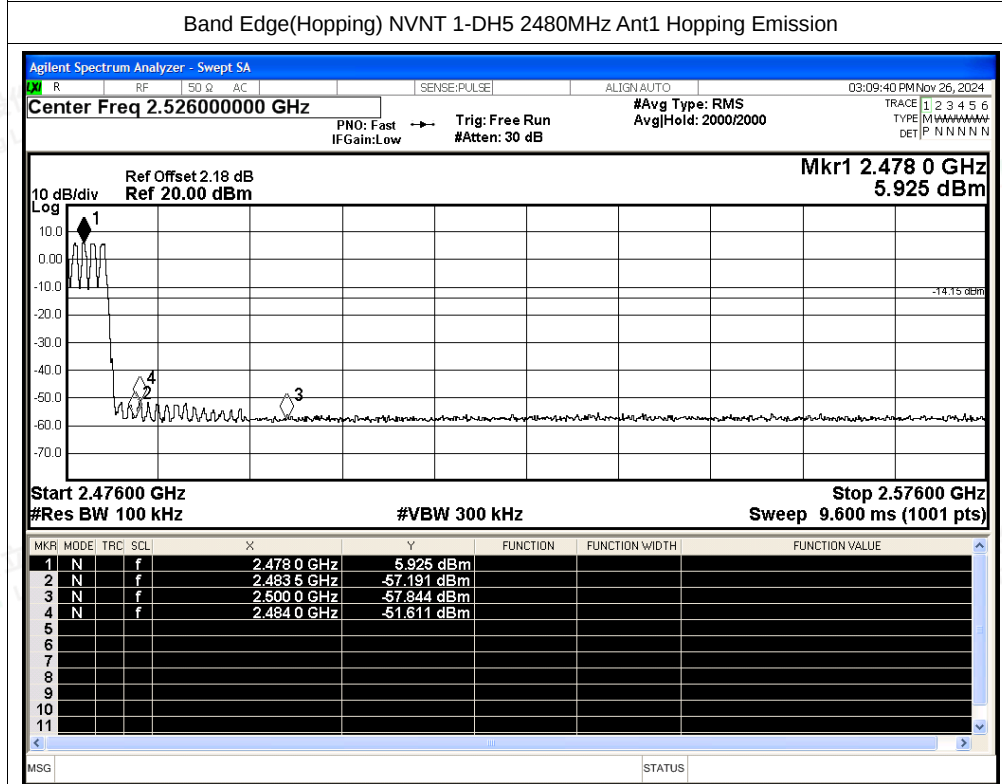
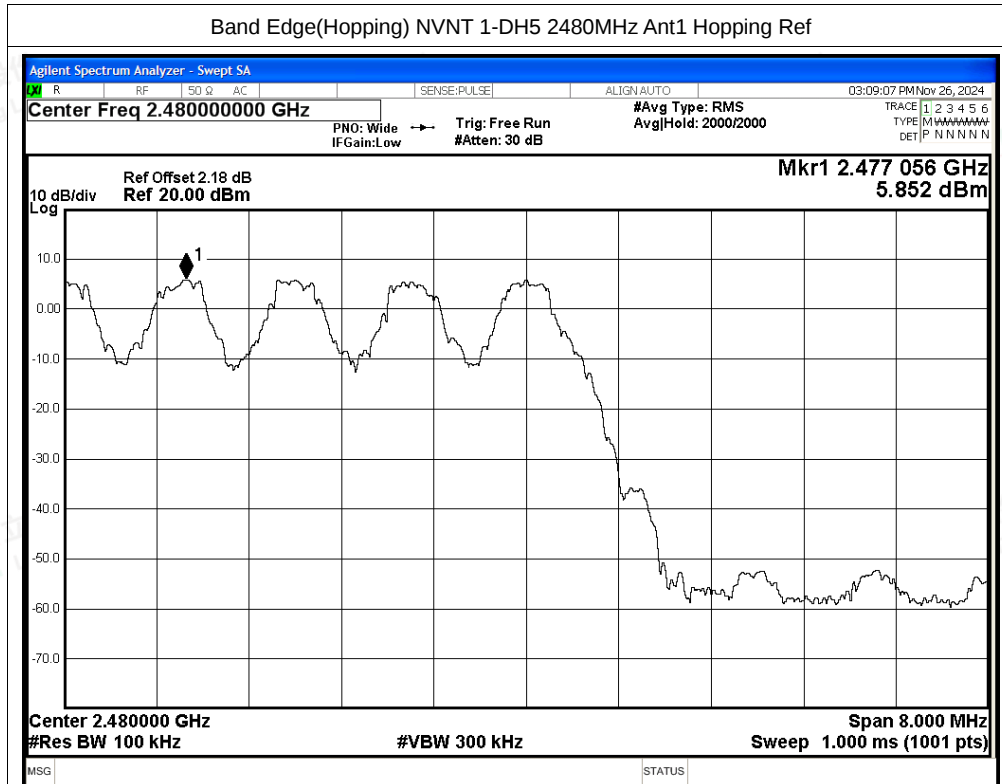


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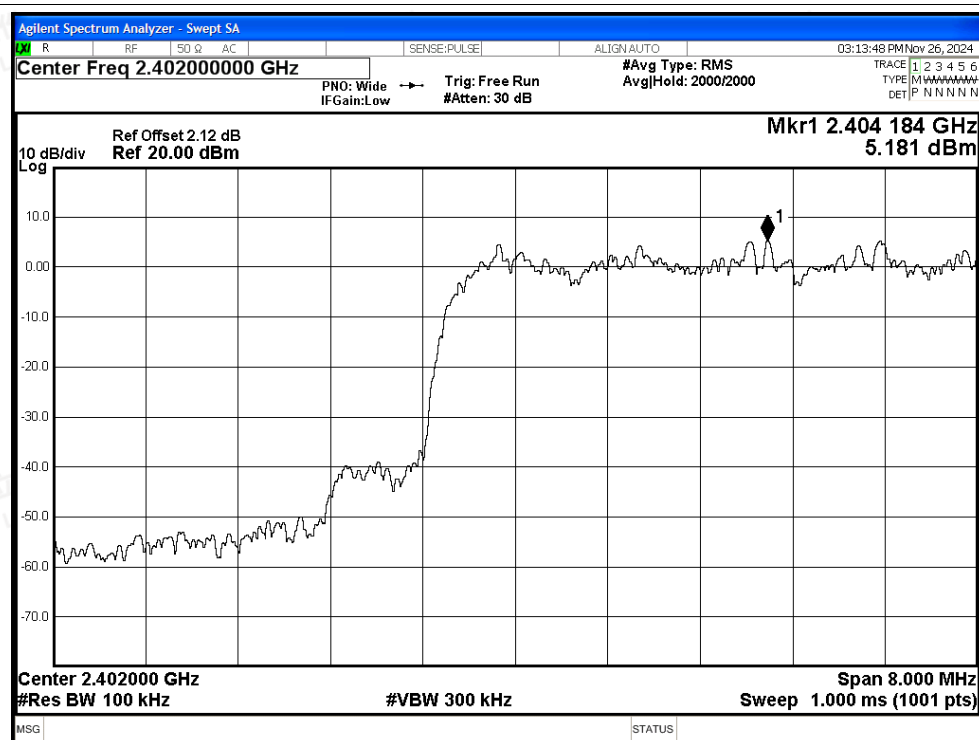
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

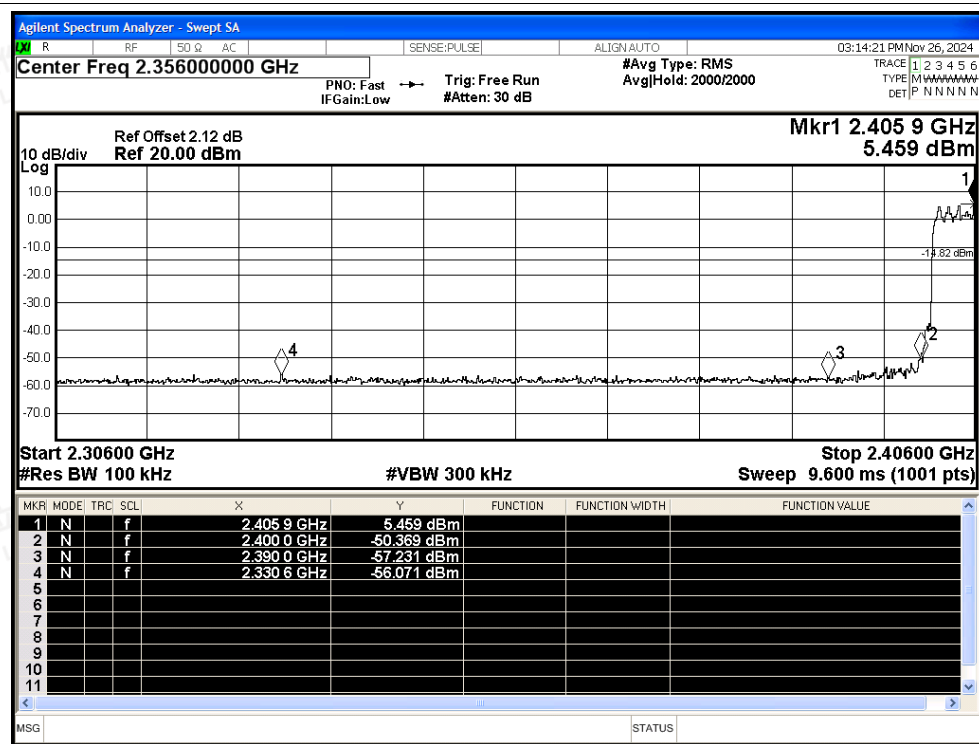
Scan code to check authenticity



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



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

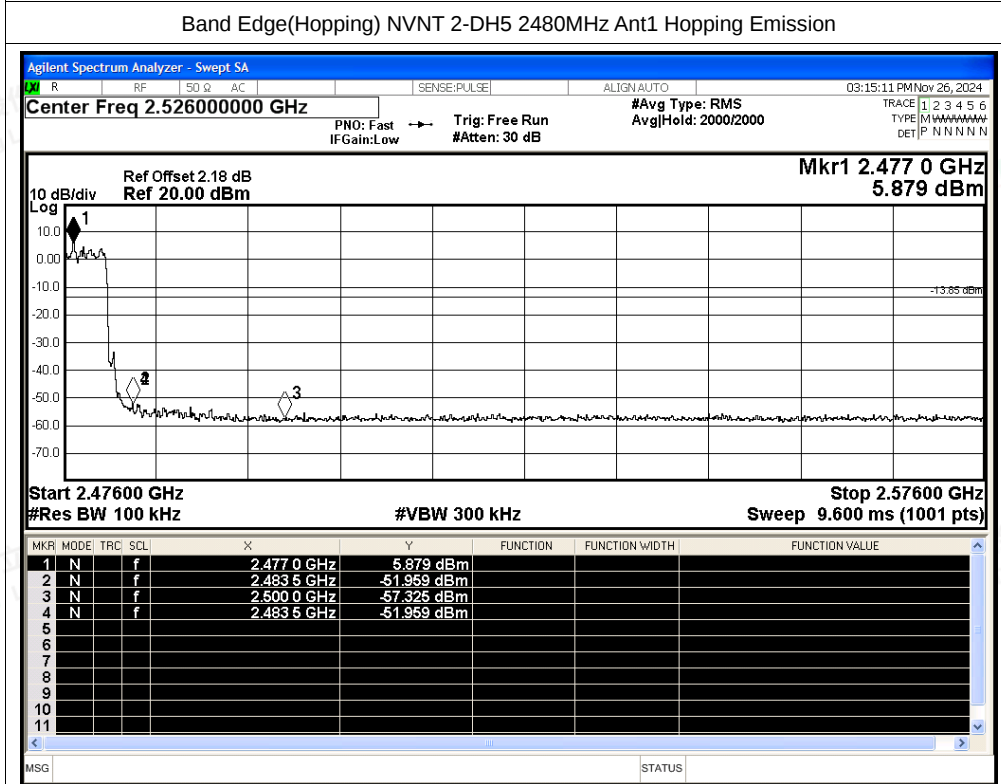
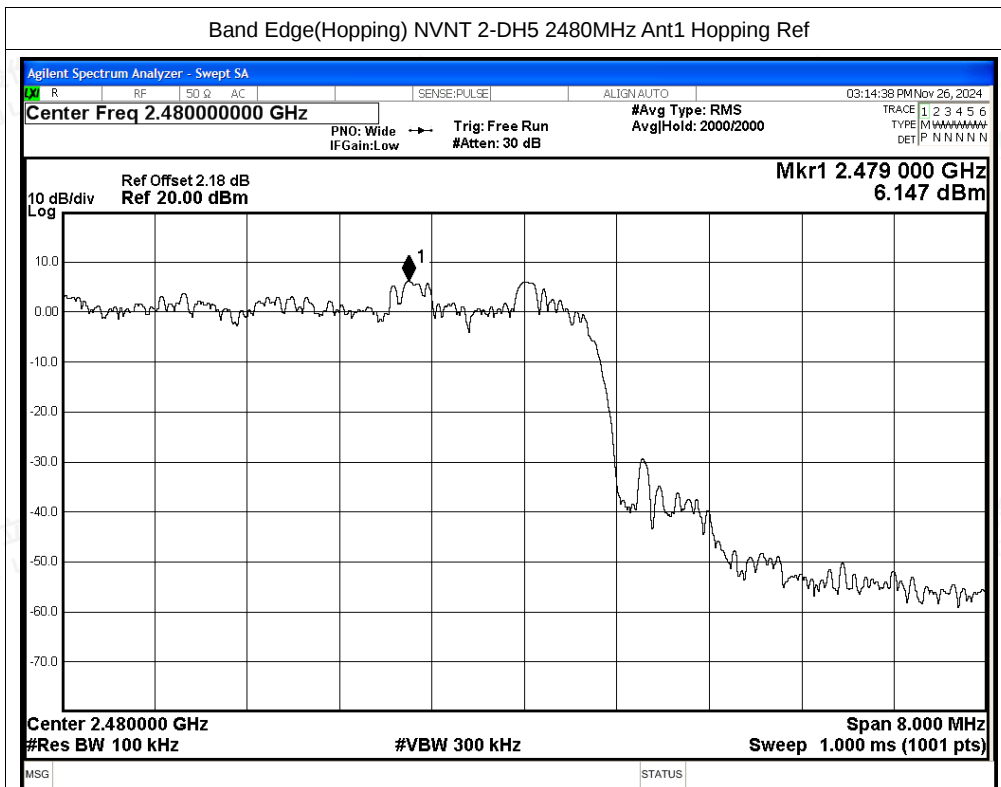


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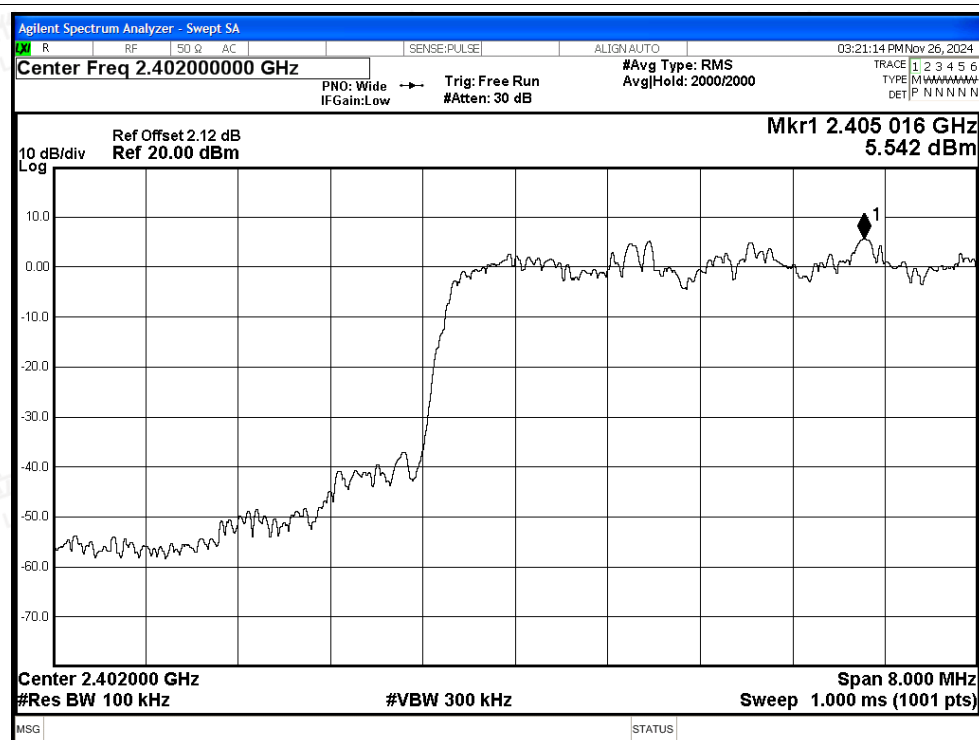
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

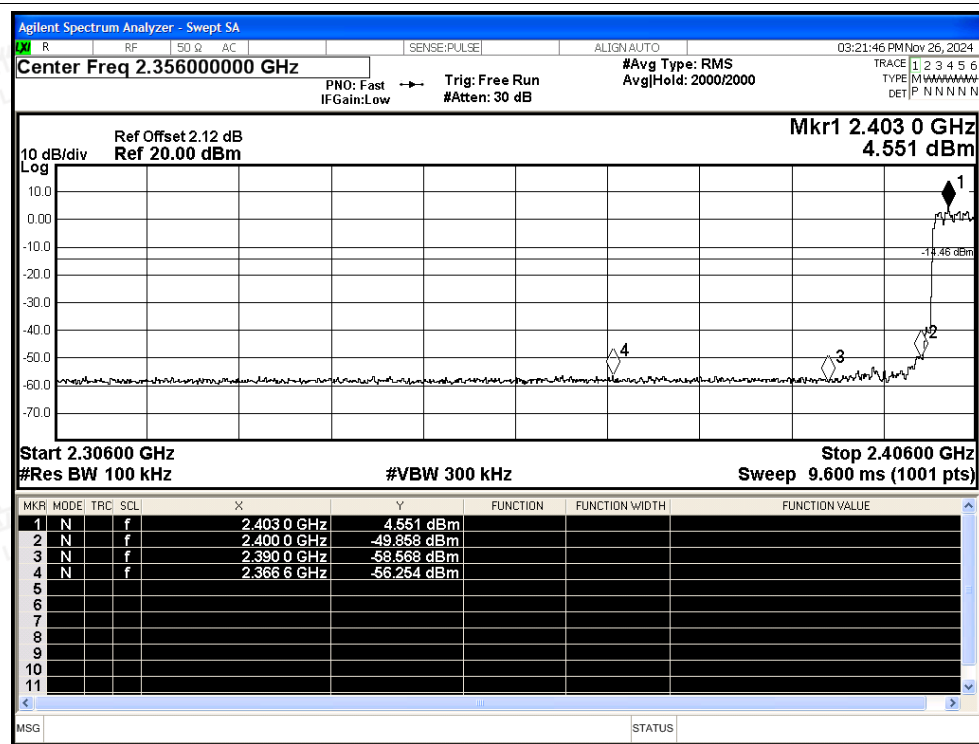
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

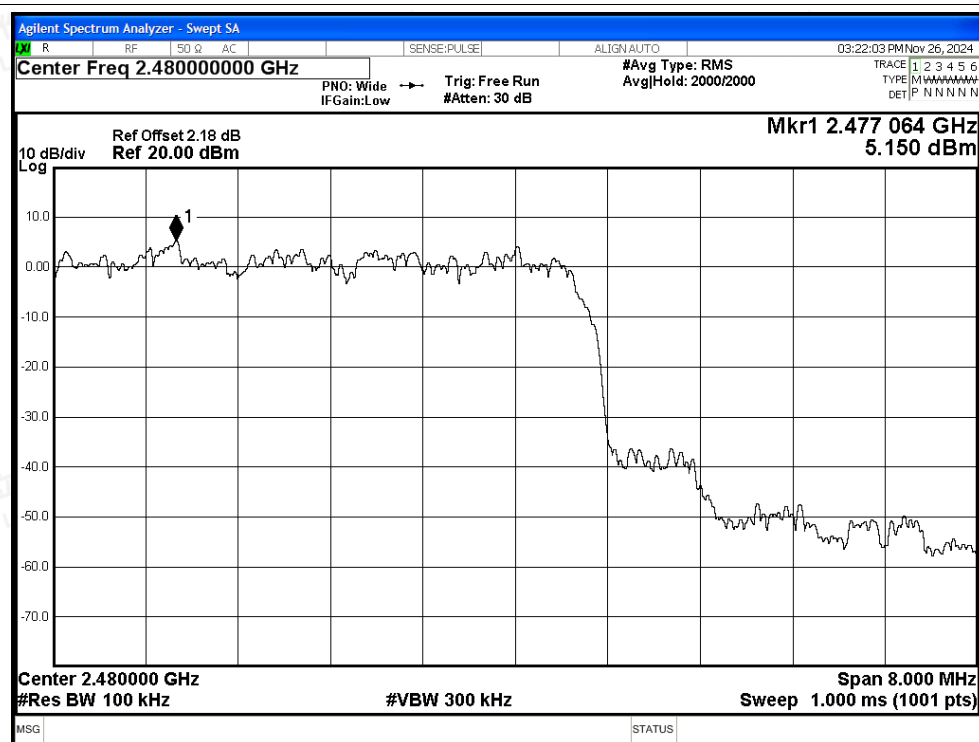
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

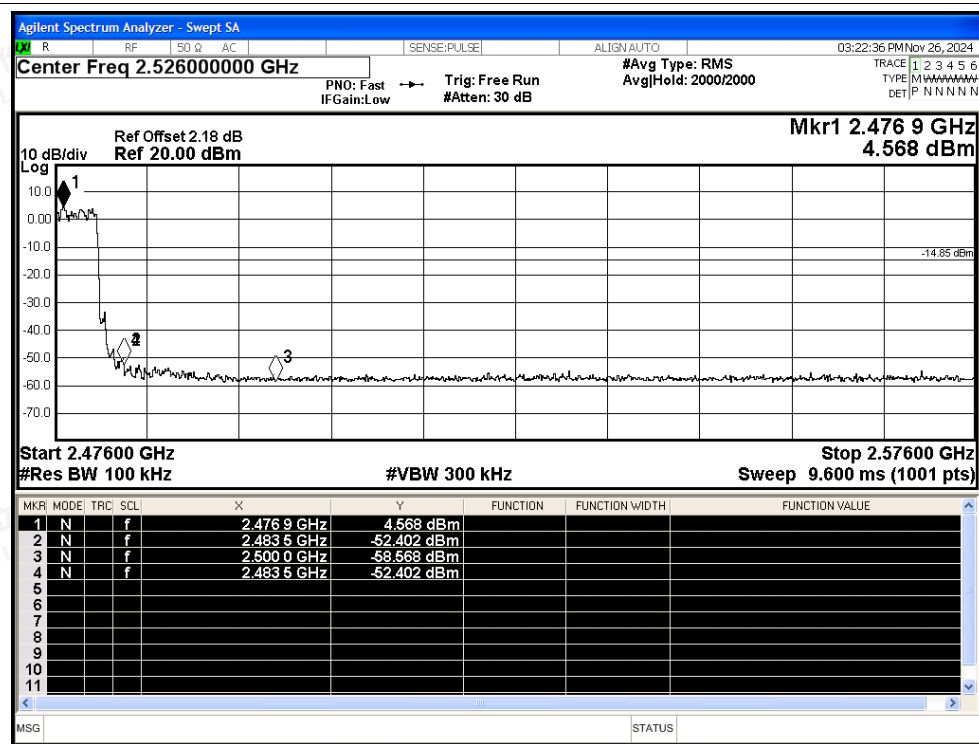
Scan code to check authenticity



Band Edge(Hopping) NVNT 3-DH5 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	-55.56	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.13	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.91	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.92	-20	Pass
NVNT	2-DH5	2441	Ant1	-54	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.89	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.59	-20	Pass
NVNT	3-DH5	2441	Ant1	-53	-20	Pass
NVNT	3-DH5	2480	Ant1	-51.9	-20	Pass

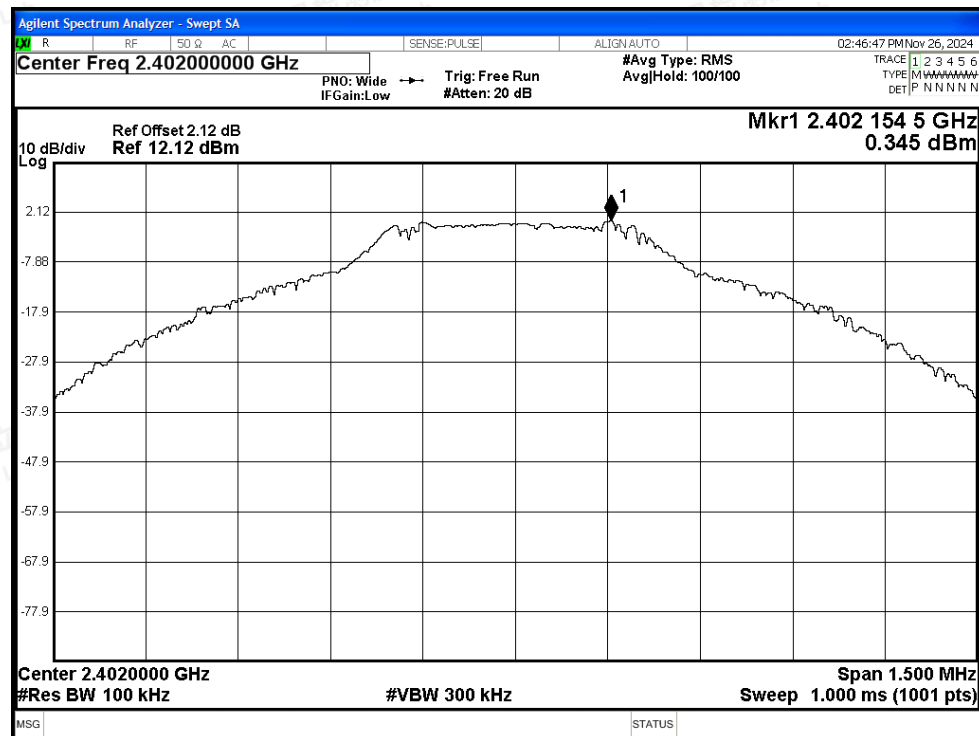


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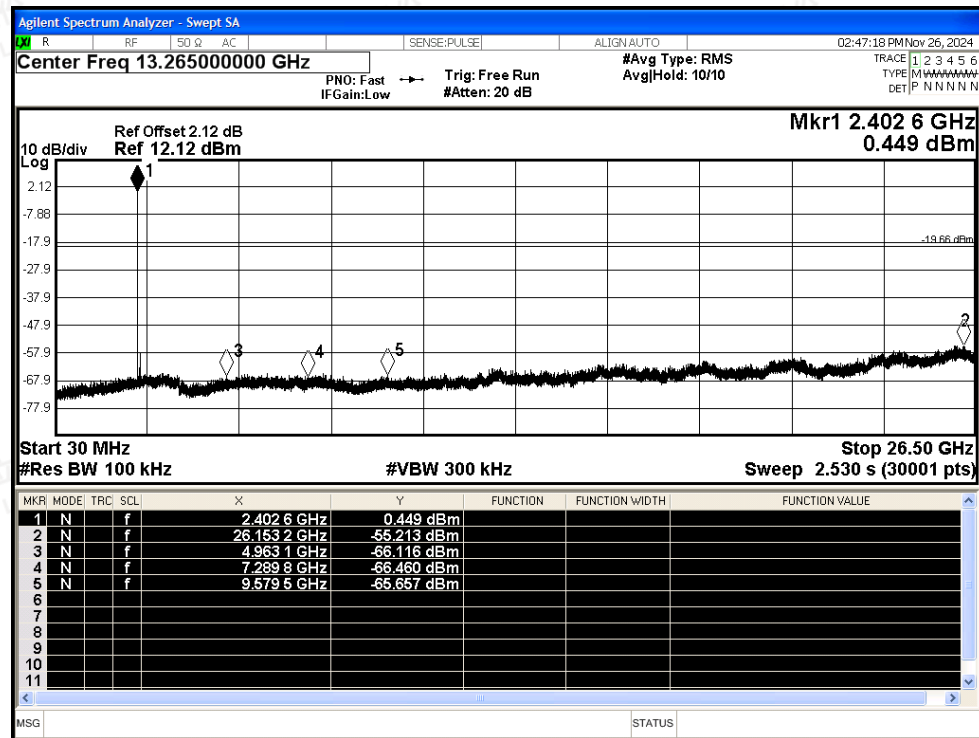


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

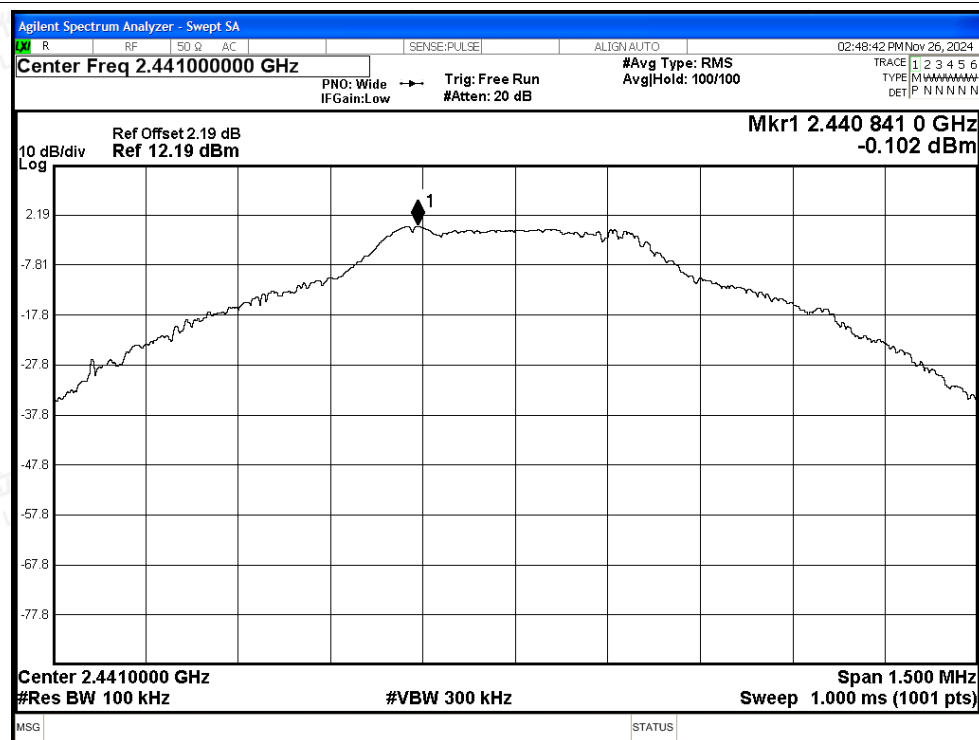
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

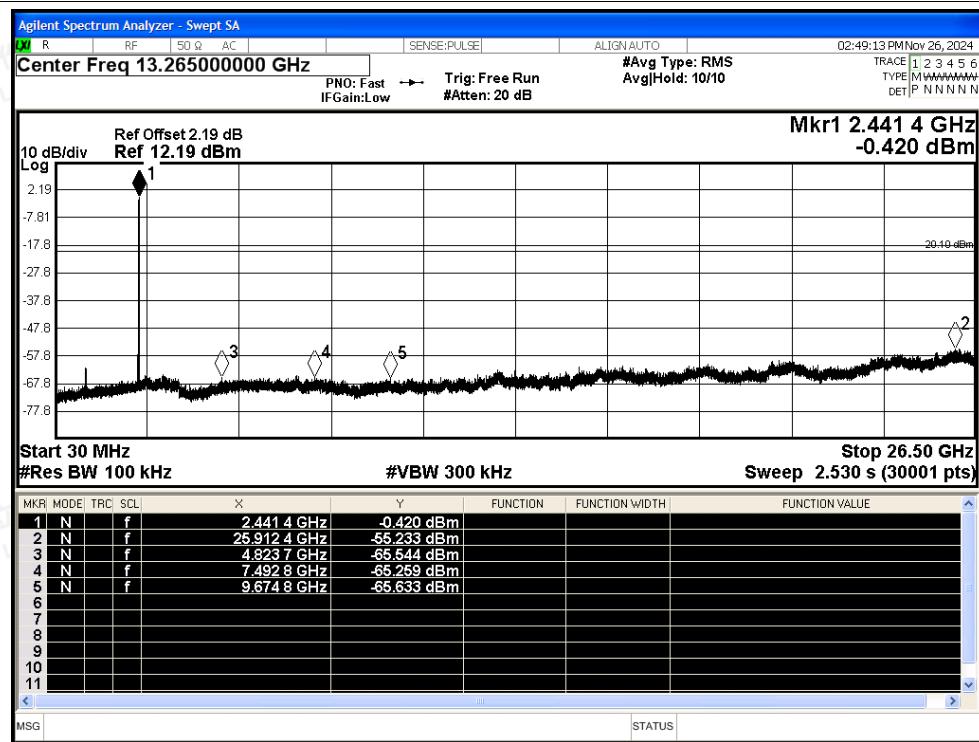
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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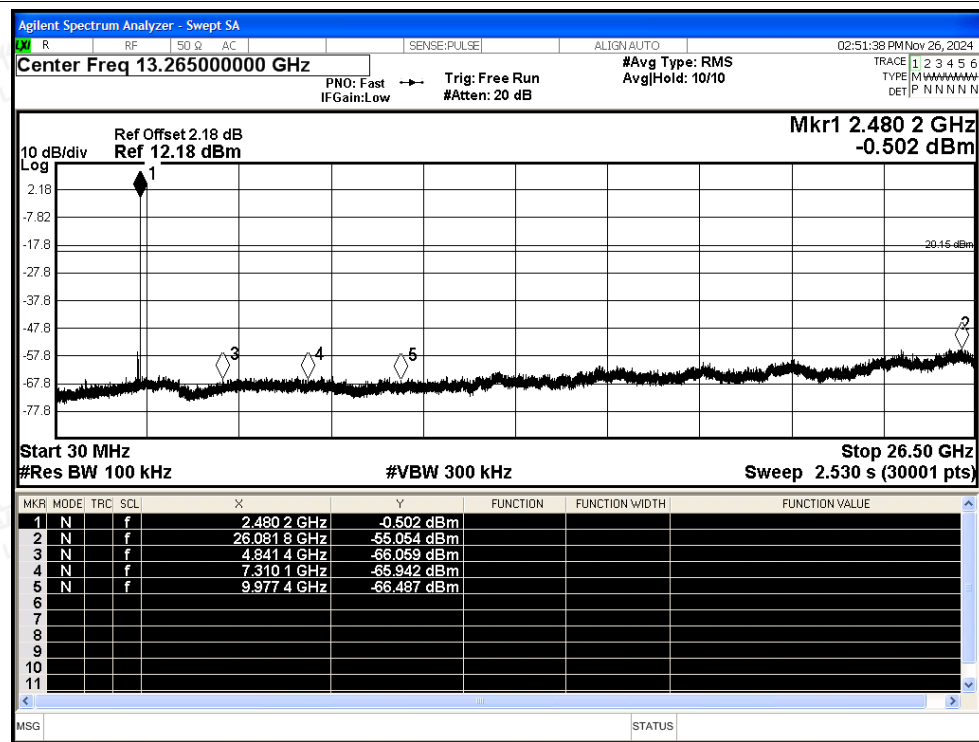
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

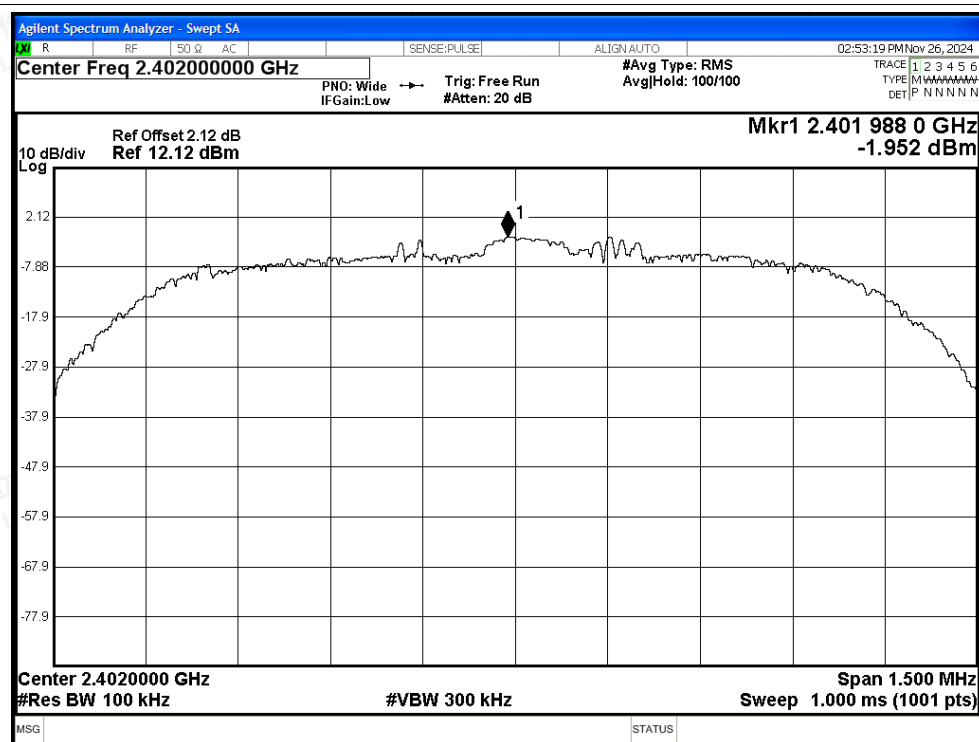
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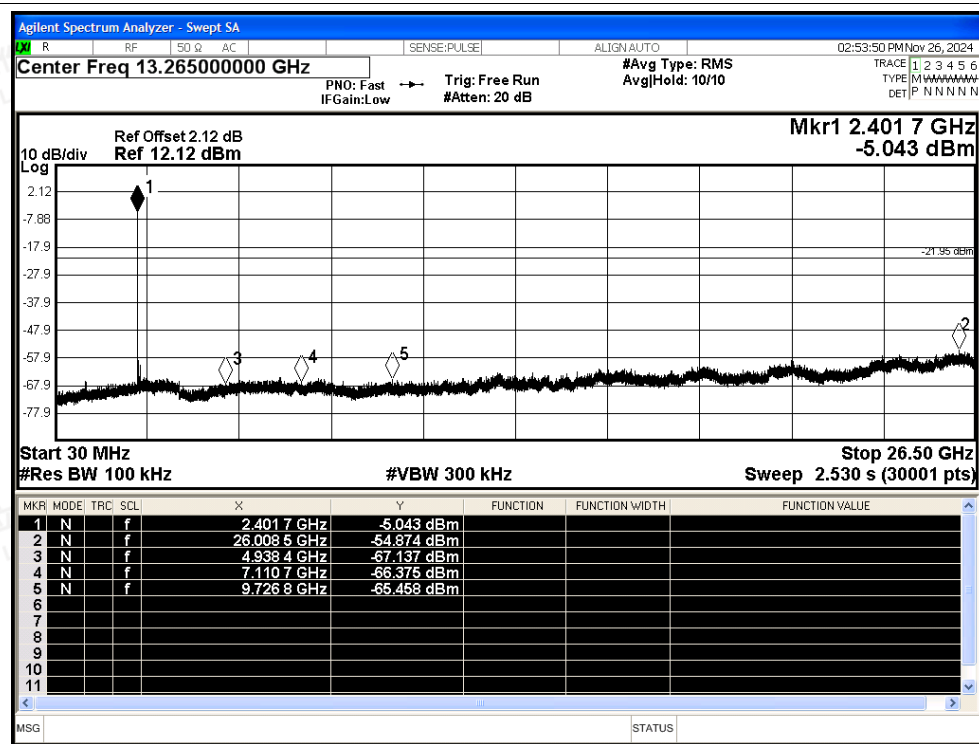
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

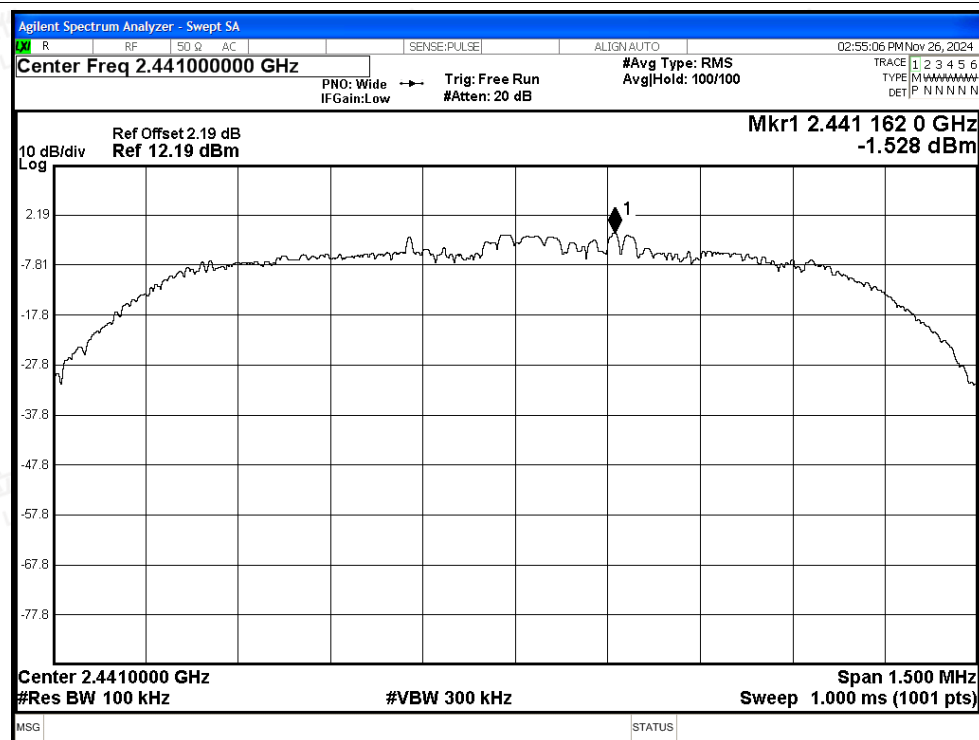
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

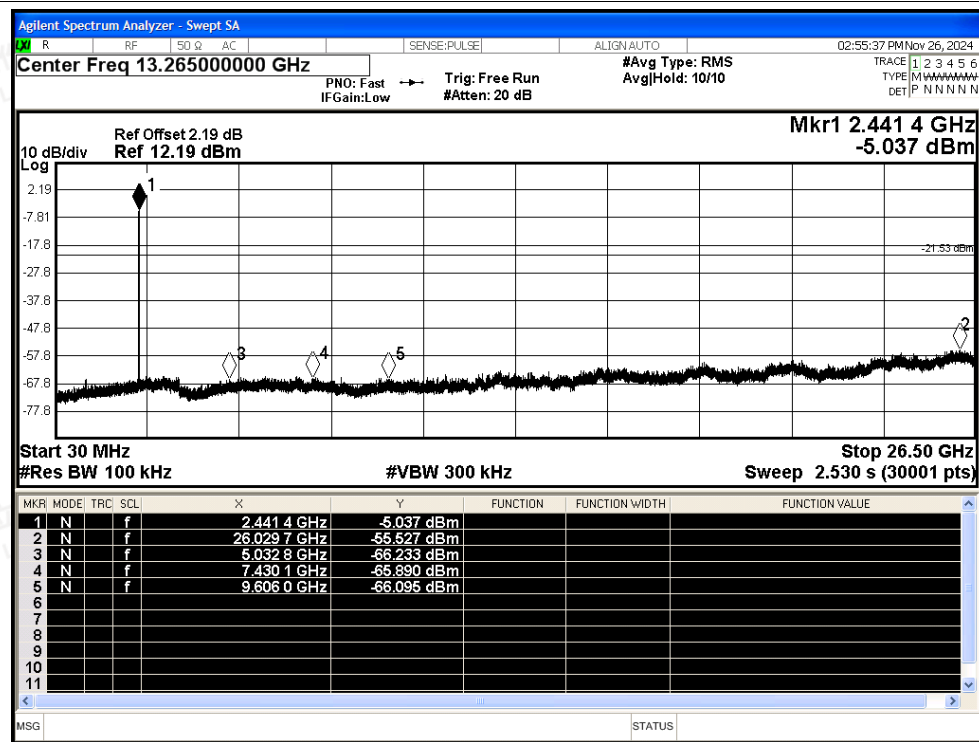
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

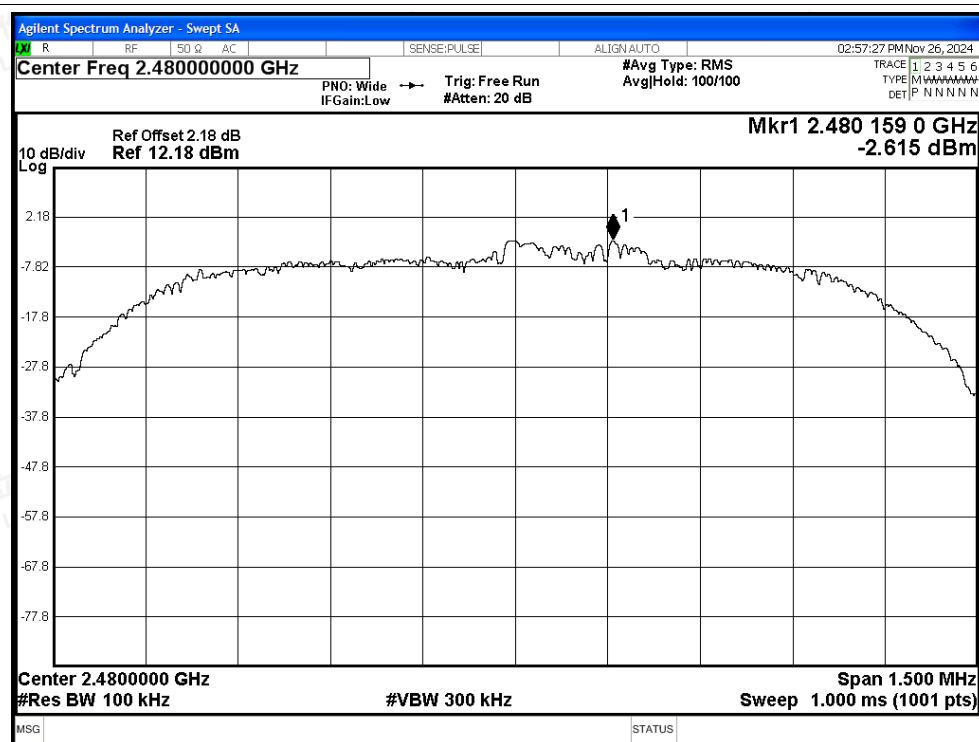
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

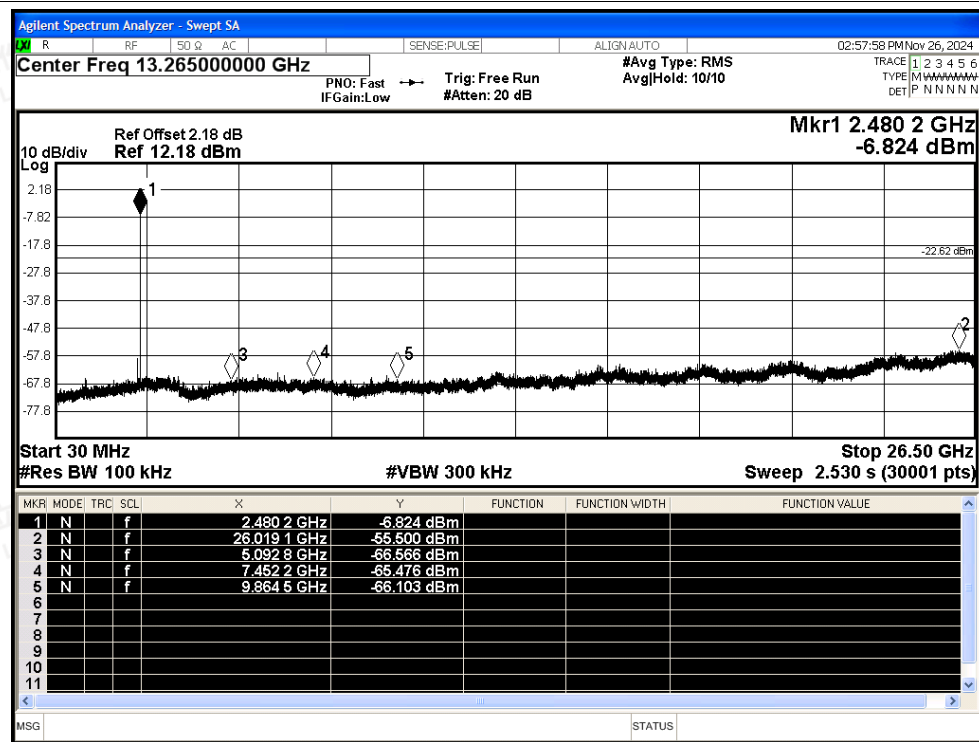
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

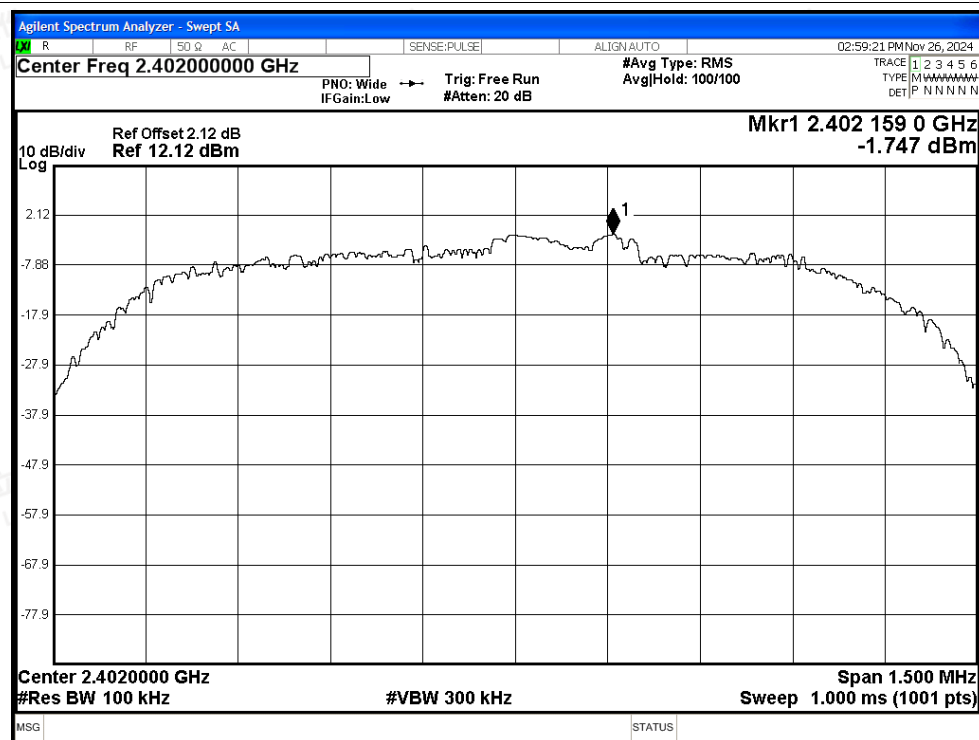
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

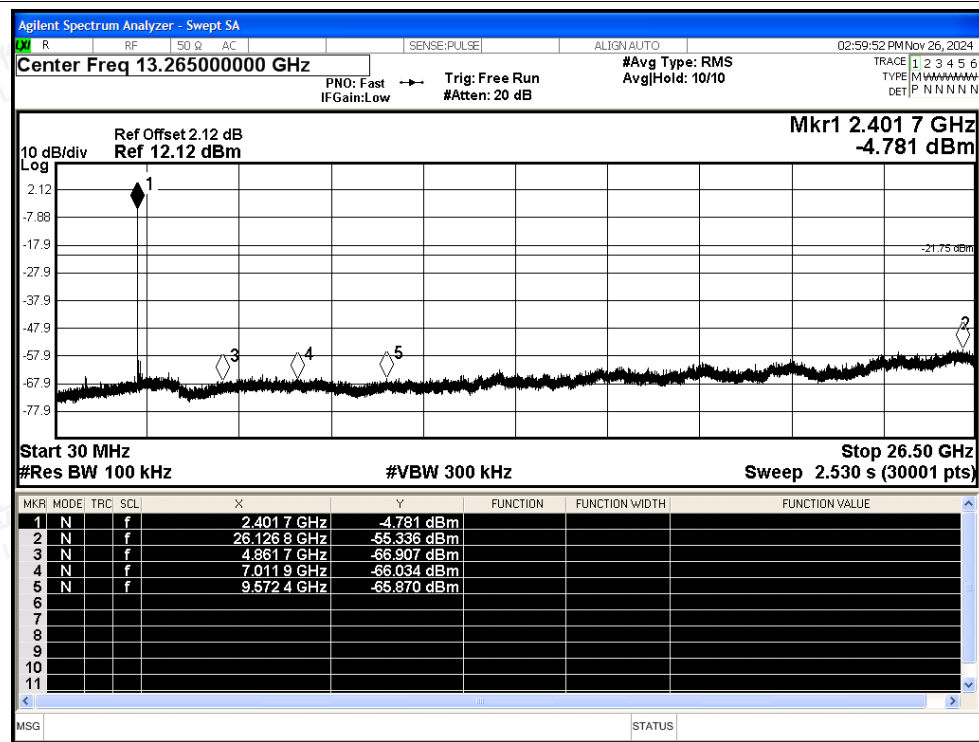
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

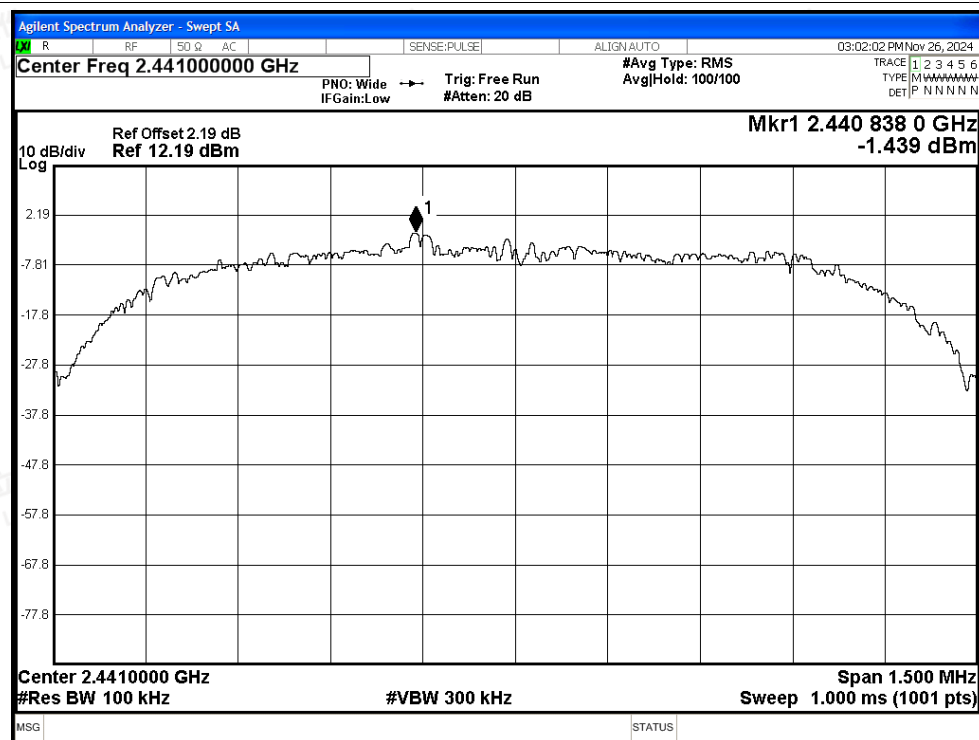
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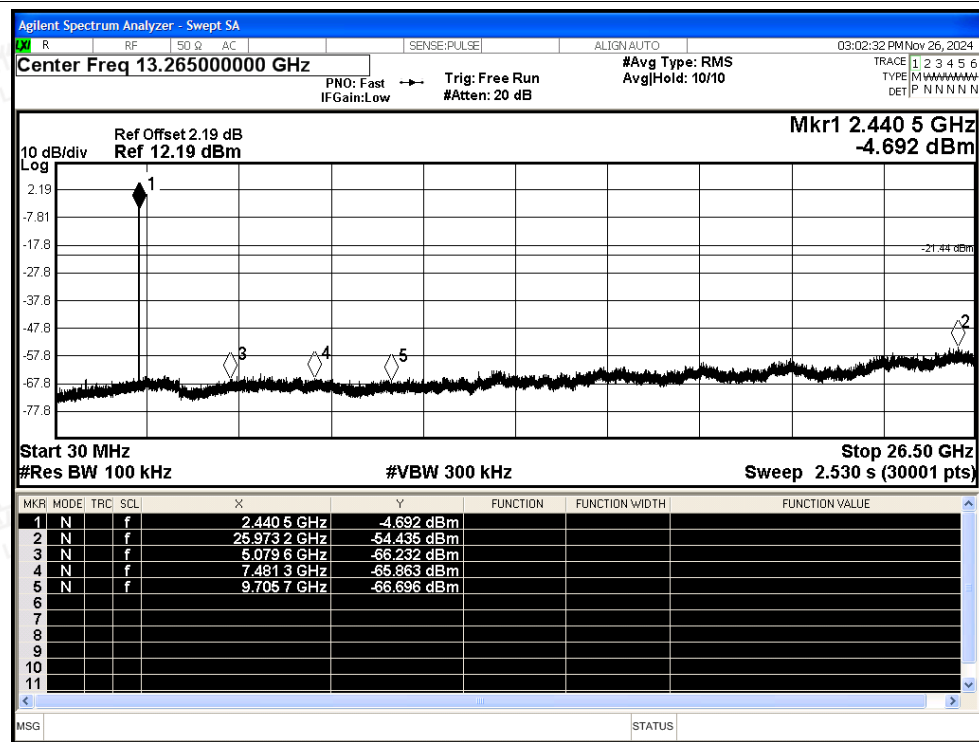
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

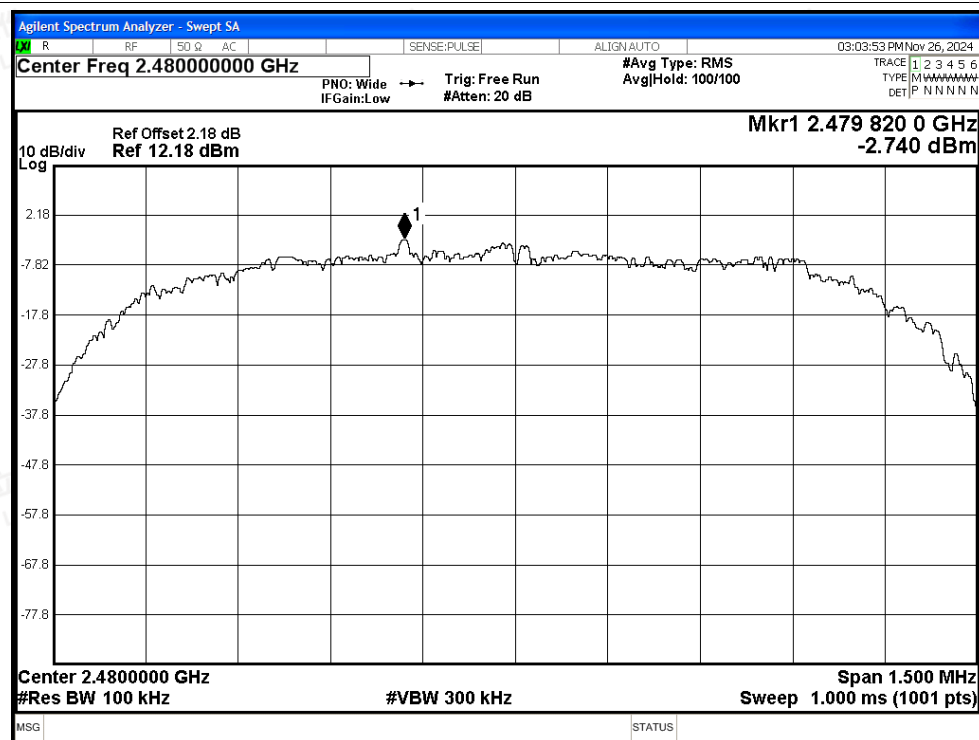
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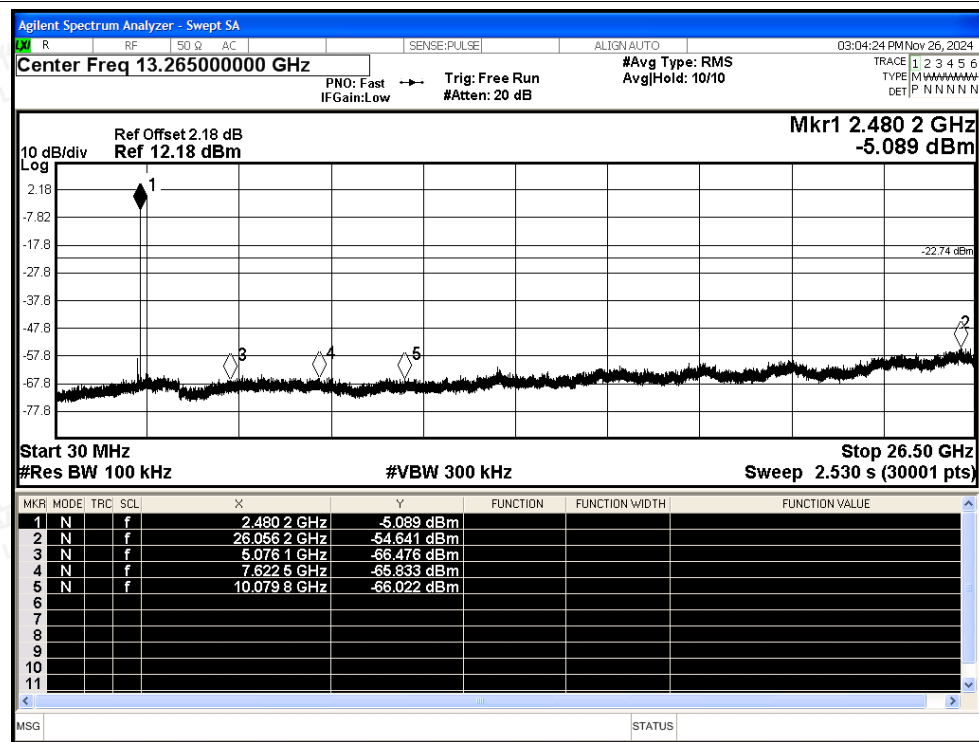
Scan code to check authenticity



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	77.6	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	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35

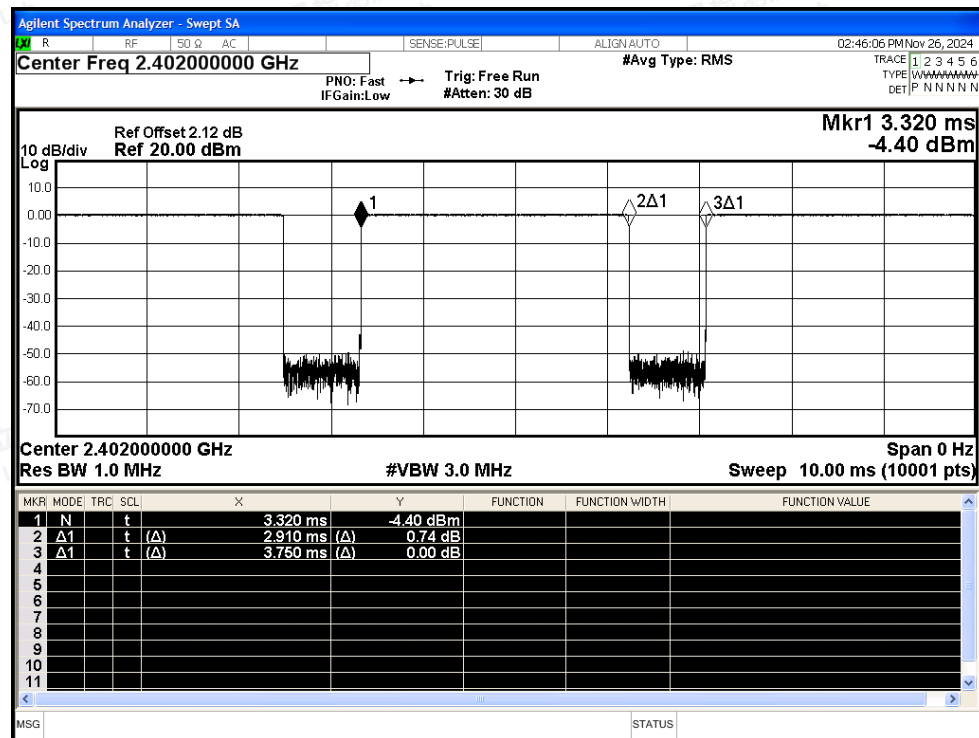


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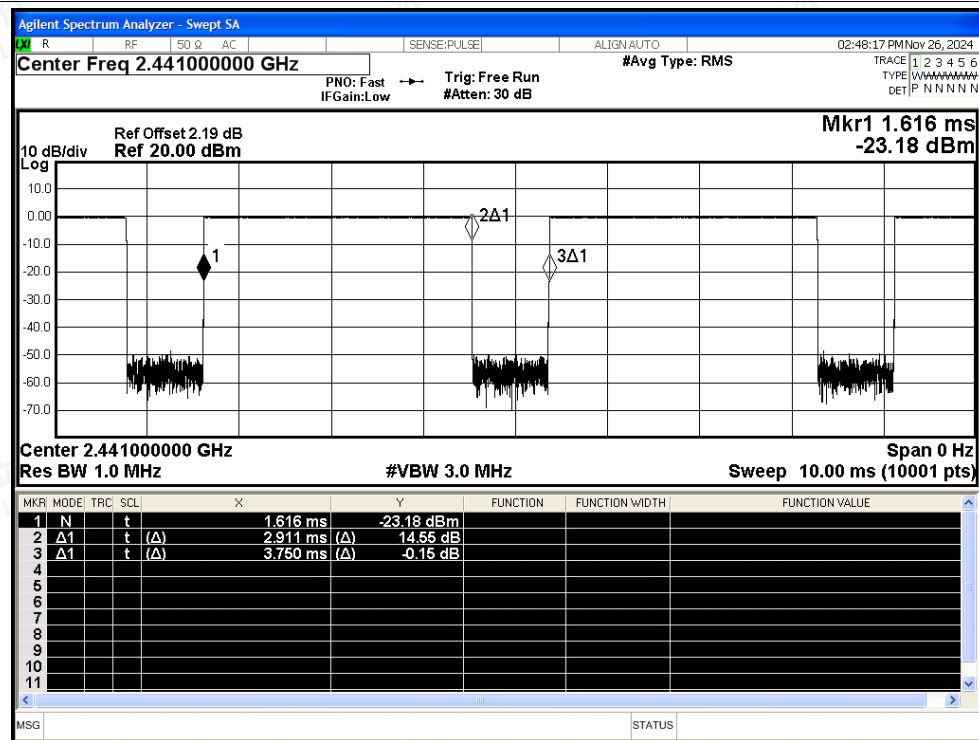


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

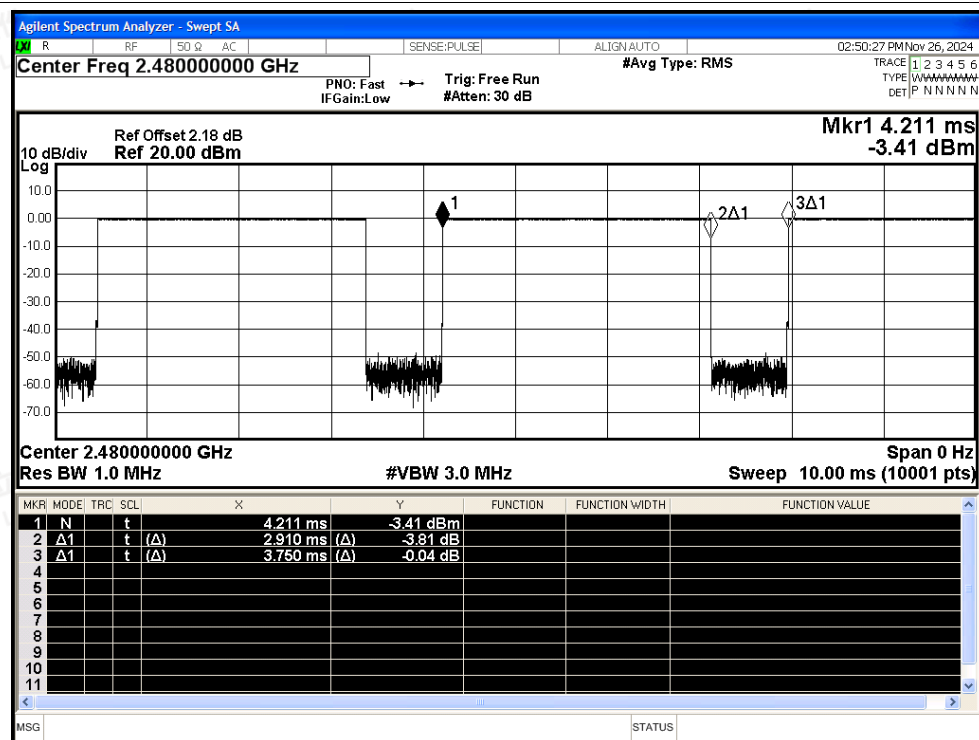
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

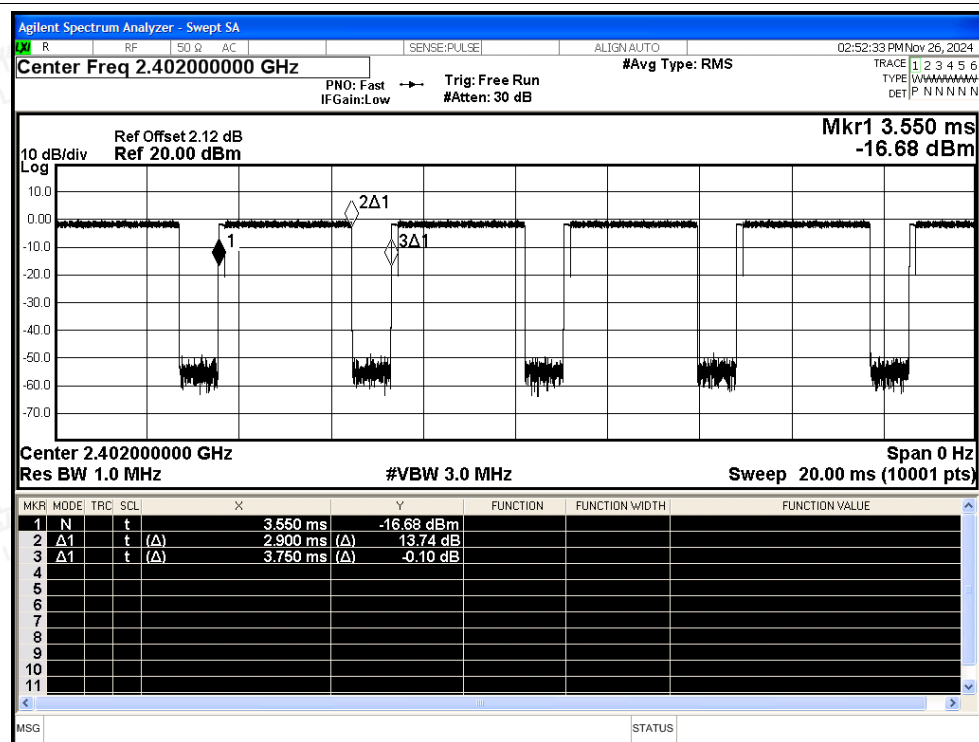
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1

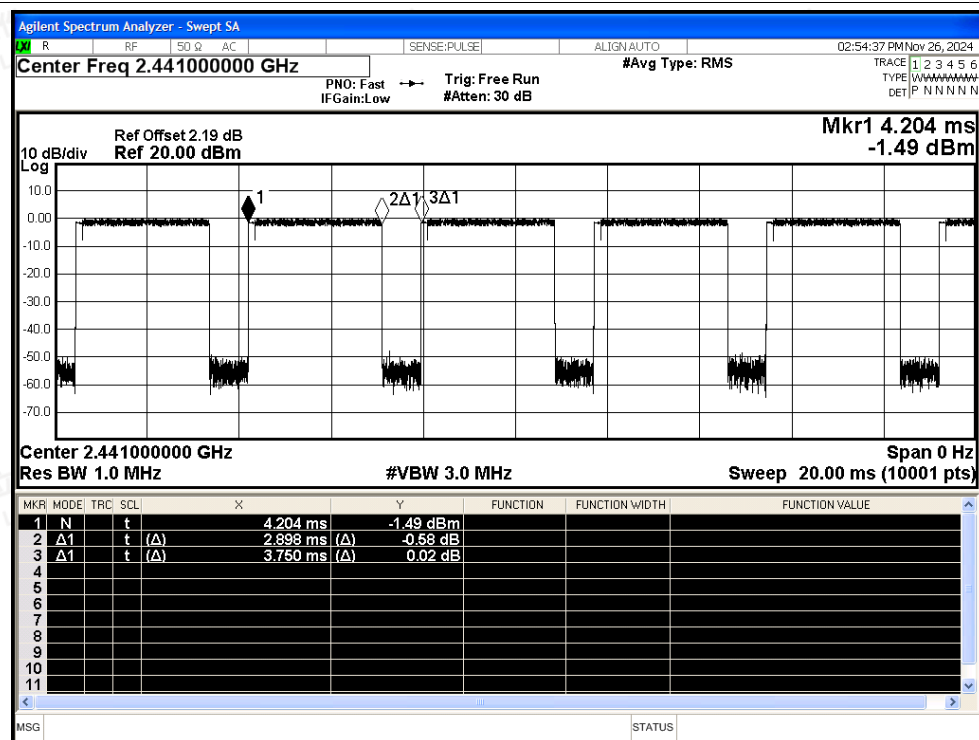


Duty Cycle NVNT 2-DH5 2402MHz Ant1

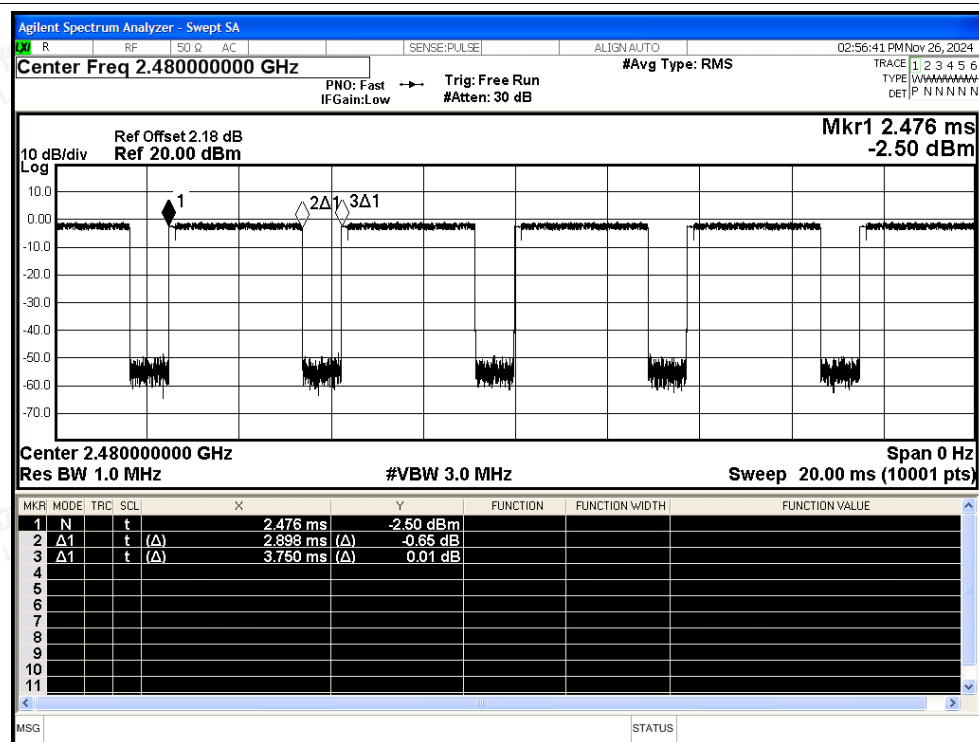




Duty Cycle NVNT 2-DH5 2441MHz Ant1

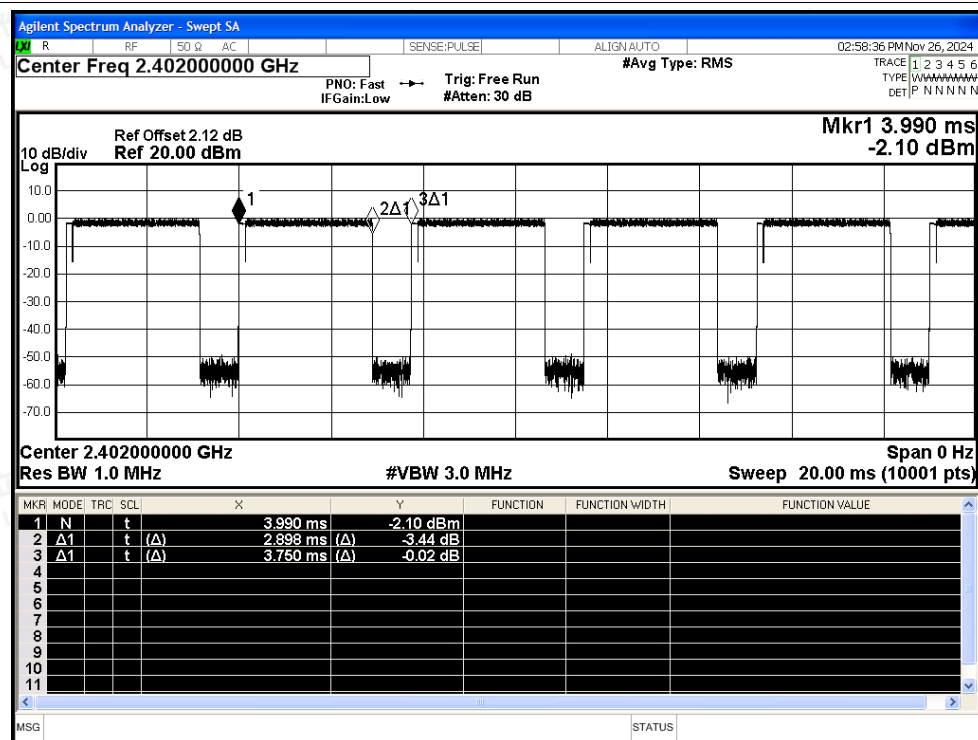


Duty Cycle NVNT 2-DH5 2480MHz Ant1

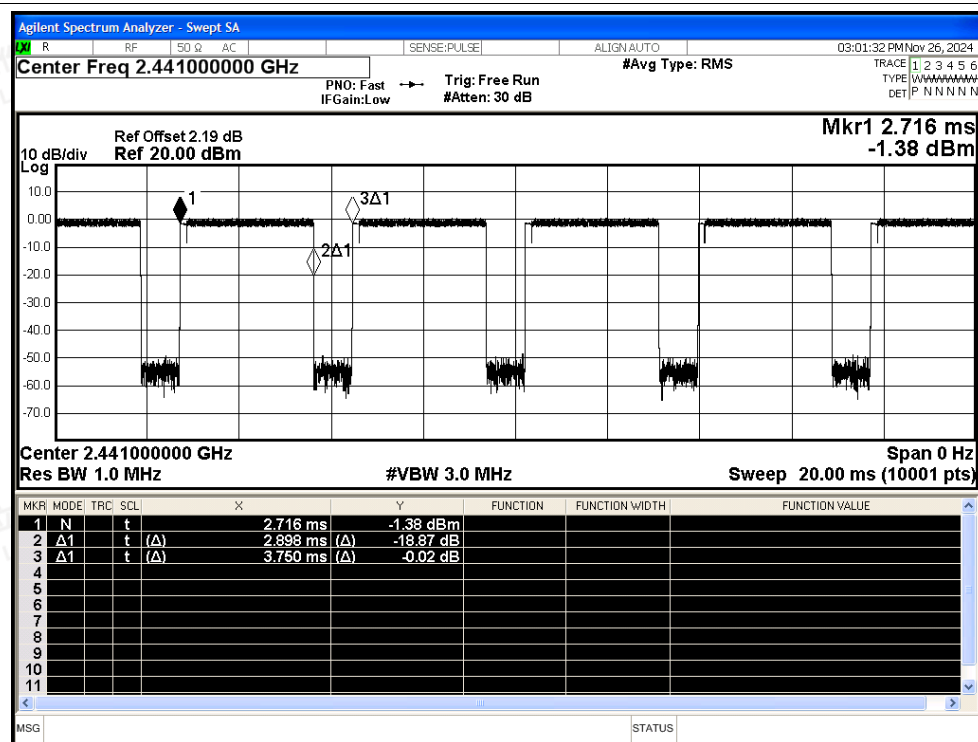




Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

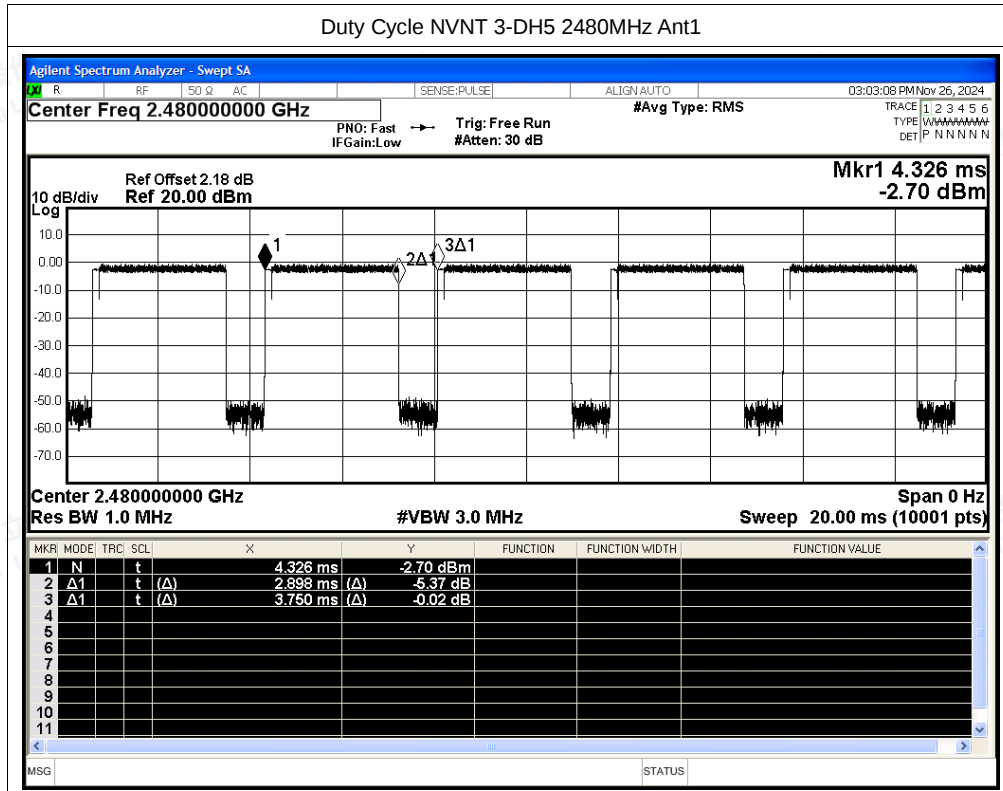


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A.9 Restrict Band

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	-50.65	2	-	46.61	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.06	2	1.1	39.3	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.208	-47.83	2	-	49.43	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2346.96	-57.6	2	1.1	40.76	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.82	2	-	48.44	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.92	2	1.1	40.44	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.43	2	-	46.83	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.02	2	1.1	40.34	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2497.6	-46.33	2	-	50.93	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.616	-56.97	2	1.1	41.39	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.06	2	-	47.2	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.03	2	1.1	40.33	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.83	2	-	46.43	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.27	2	1.12	40.11	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2336.208	-47.95	2	-	49.31	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2377.2	-57.45	2	1.12	40.93	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.05	2	-	46.21	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.08	2	1.12	40.3	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.46	2	-	47.8	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.56	2	1.12	40.82	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.472	-45.94	2	-	51.32	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.728	-57.16	2	1.12	41.22	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.86	2	-	46.4	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.04	2	1.12	40.34	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.65	2	-	46.61	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.74	2	1.12	39.64	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2382.672	-46.61	2	-	50.65	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2375.28	-57.35	2	1.12	41.03	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.24	2	-	46.02	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.57	2	1.12	39.81	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.34	2	-	48.92	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.16	2	1.12	40.22	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2487.664	-47.08	2	-	50.18	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.68	-57.1	2	1.12	41.28	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.08	2	-	49.18	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.92	2	1.12	40.46	Average	54	Pass



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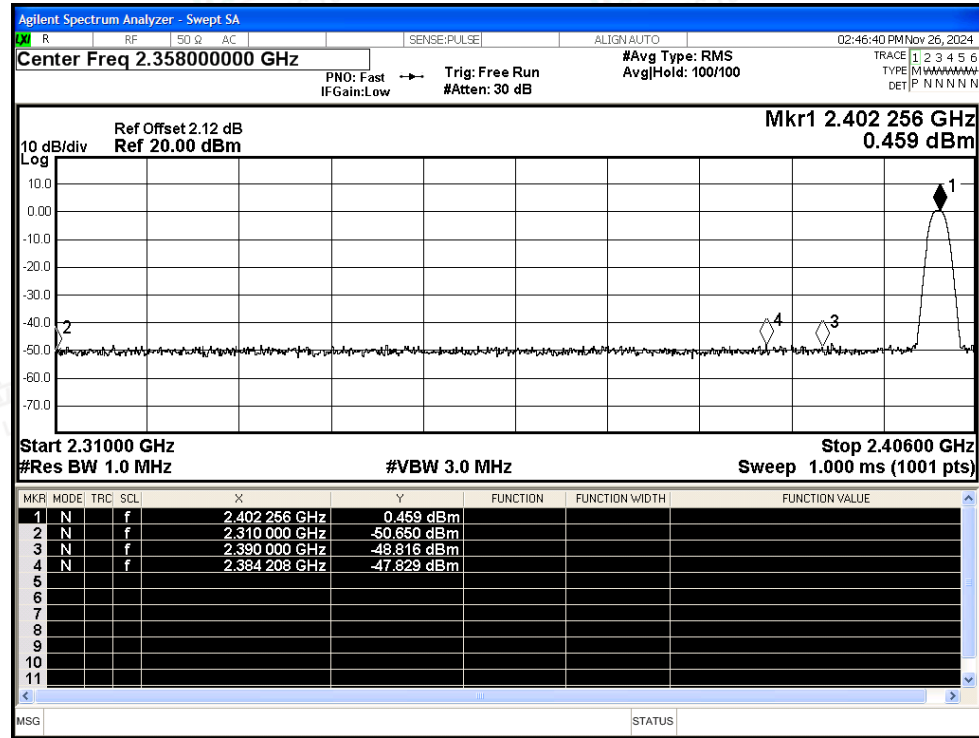
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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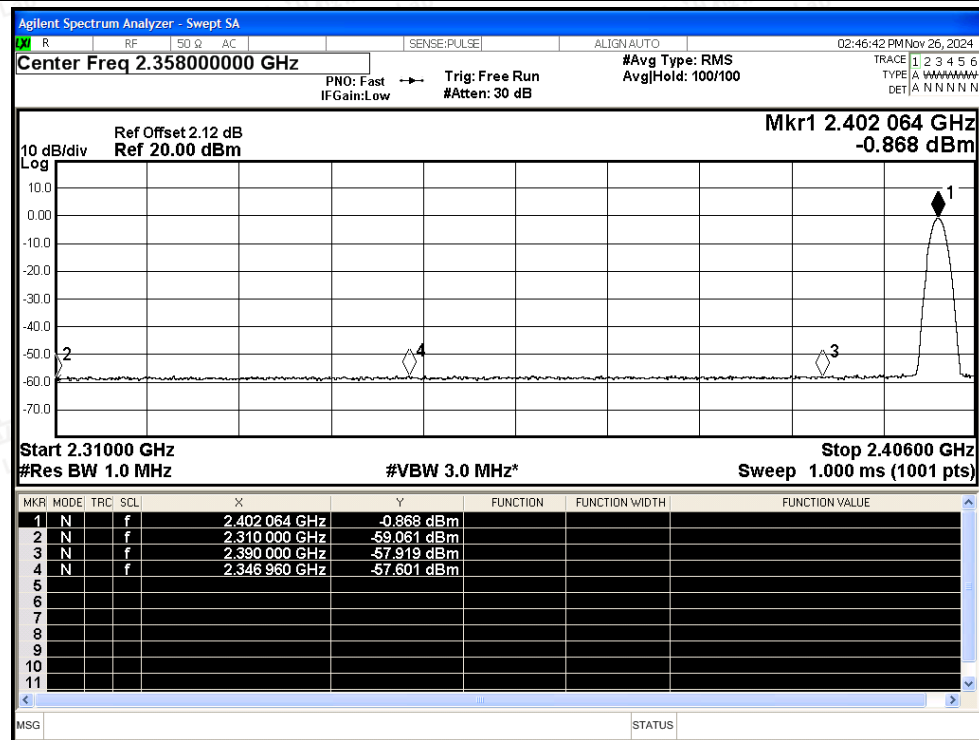


Test Graphs

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



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



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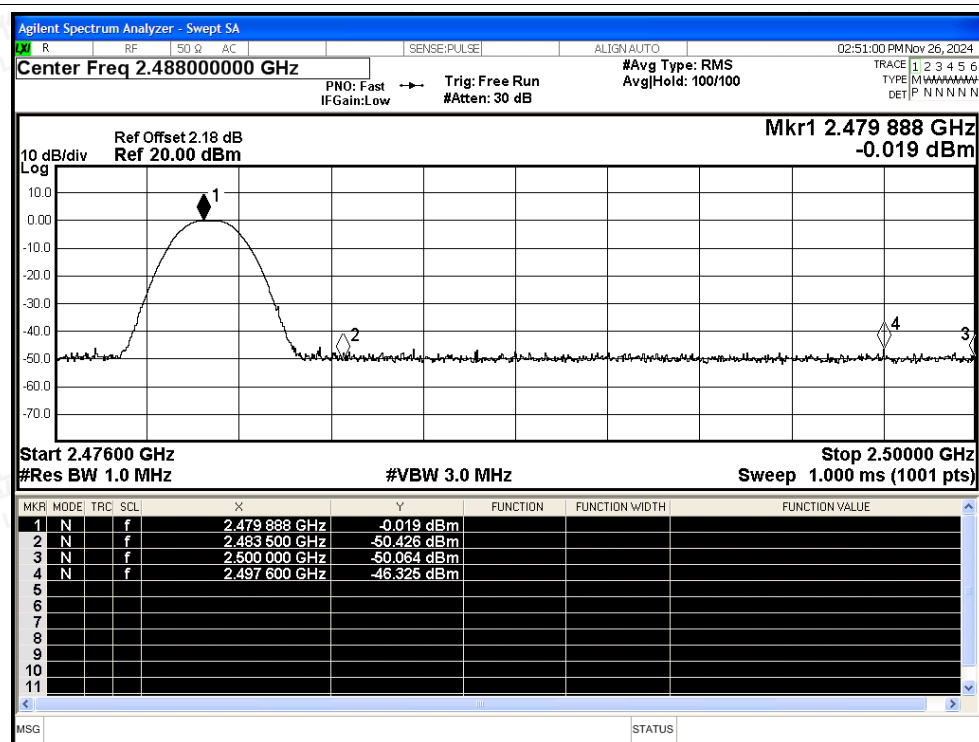
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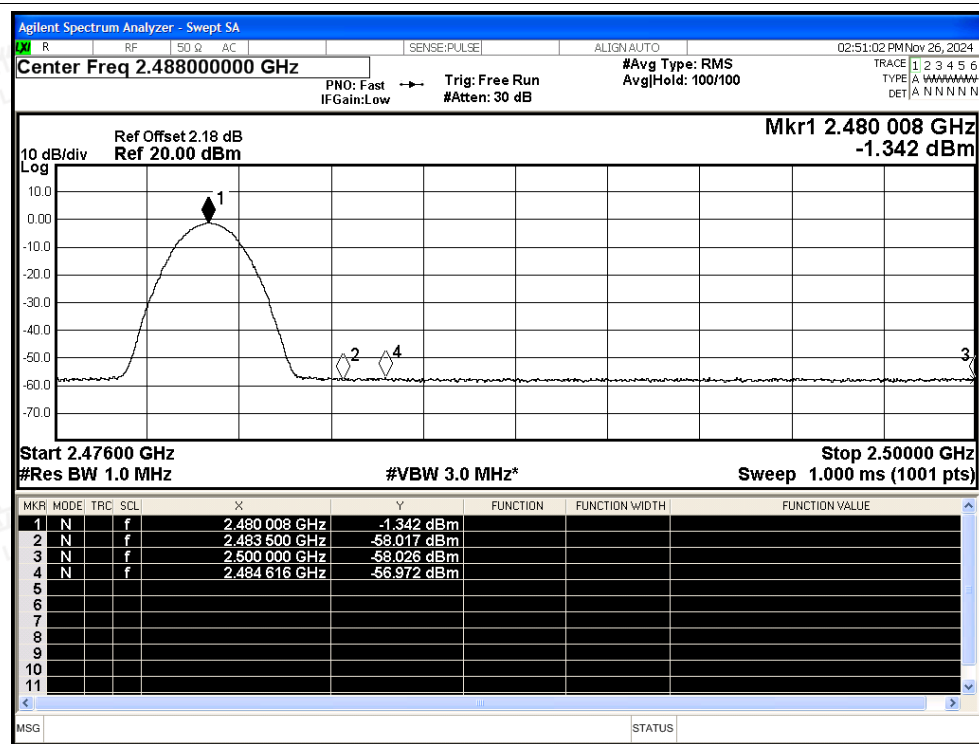
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

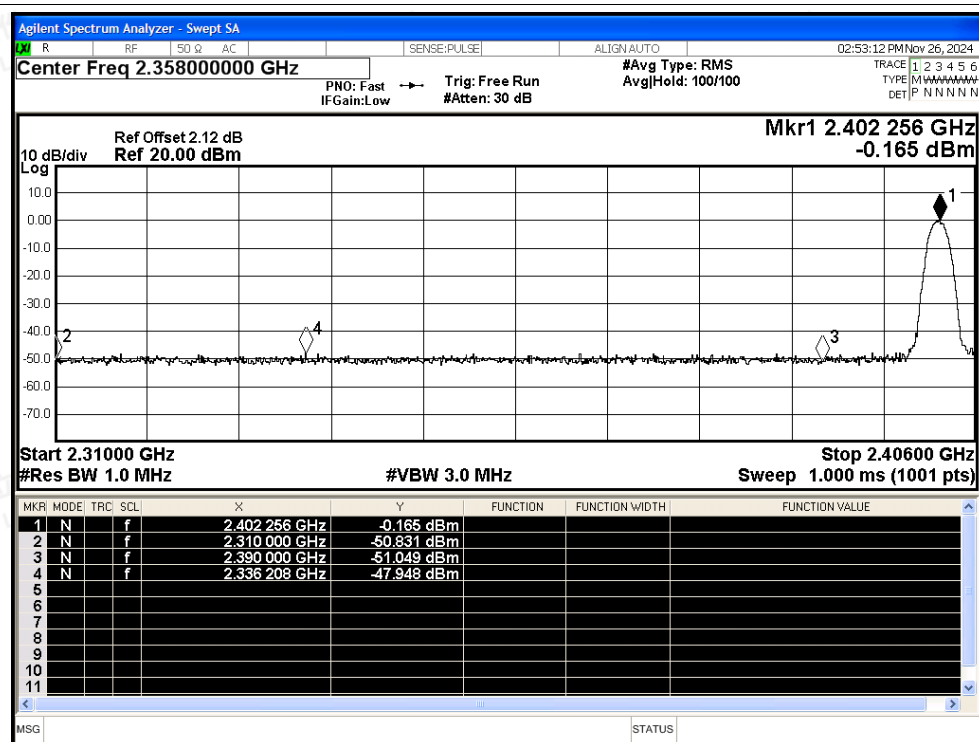
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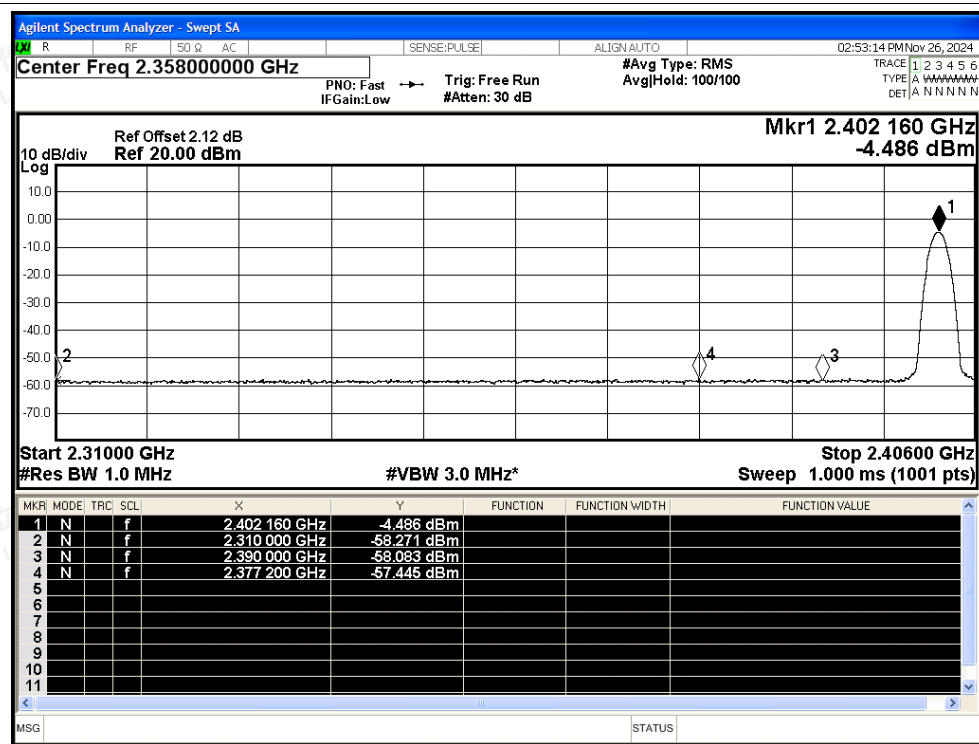
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



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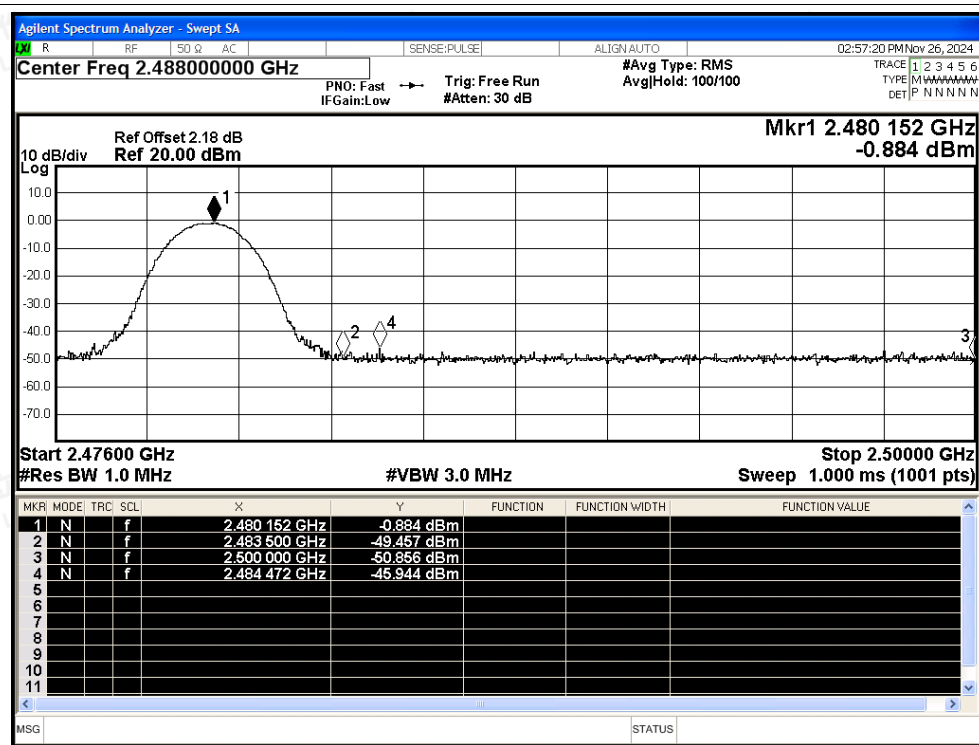
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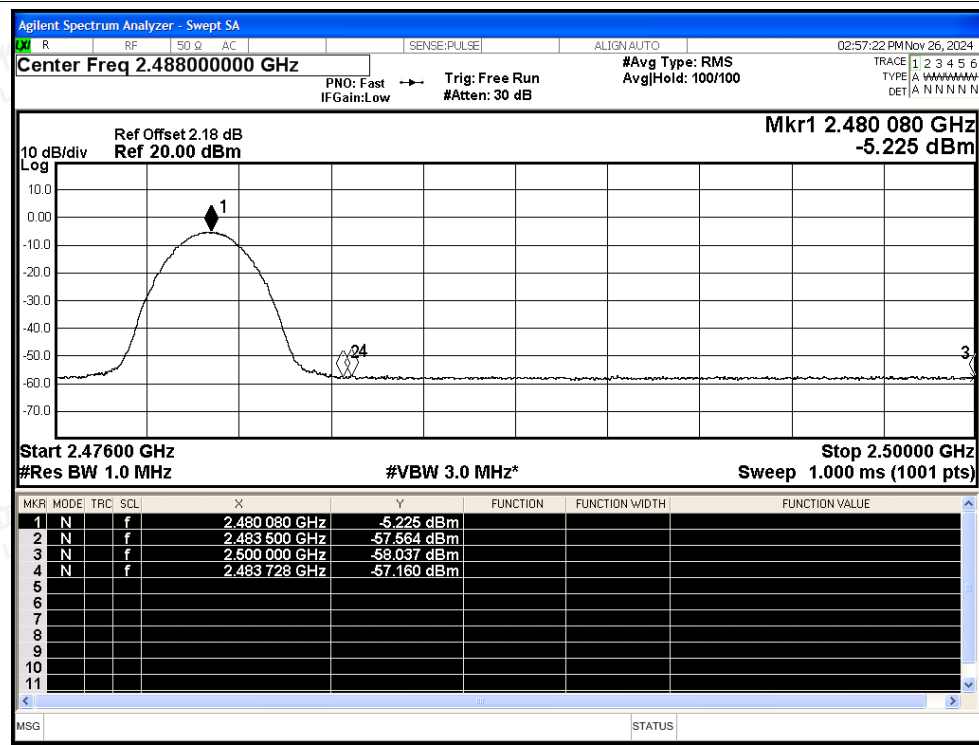
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



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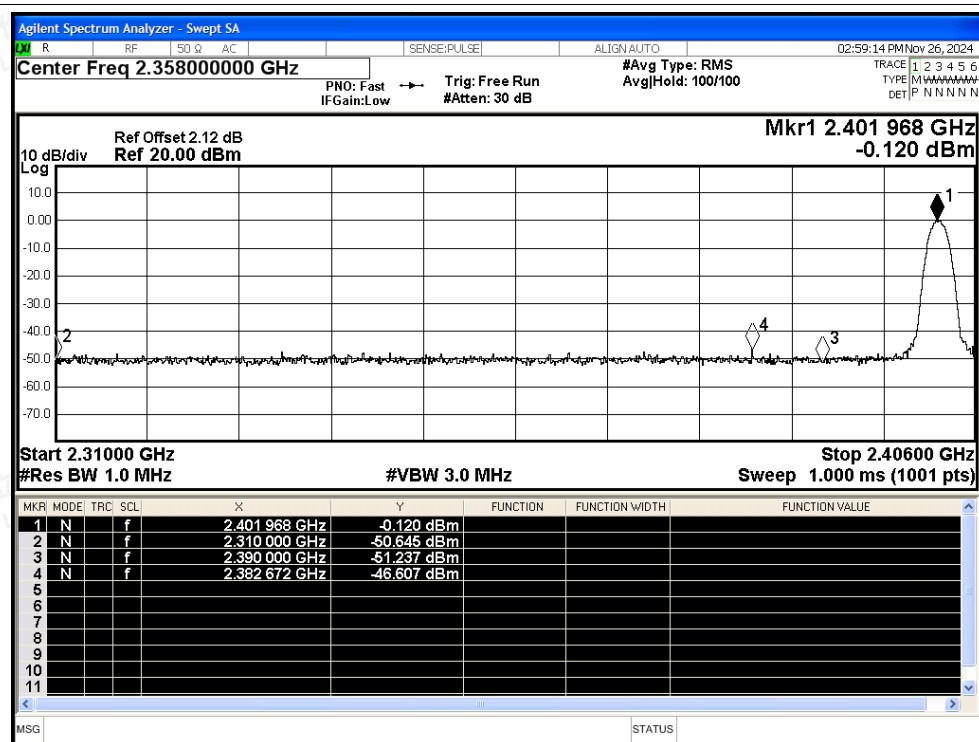
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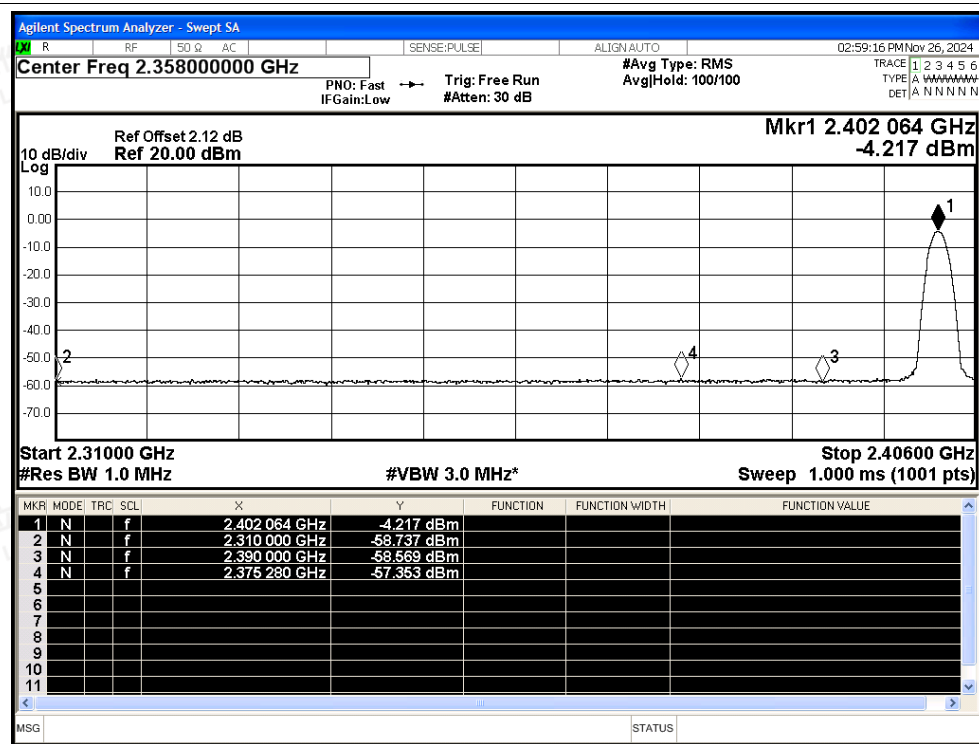
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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



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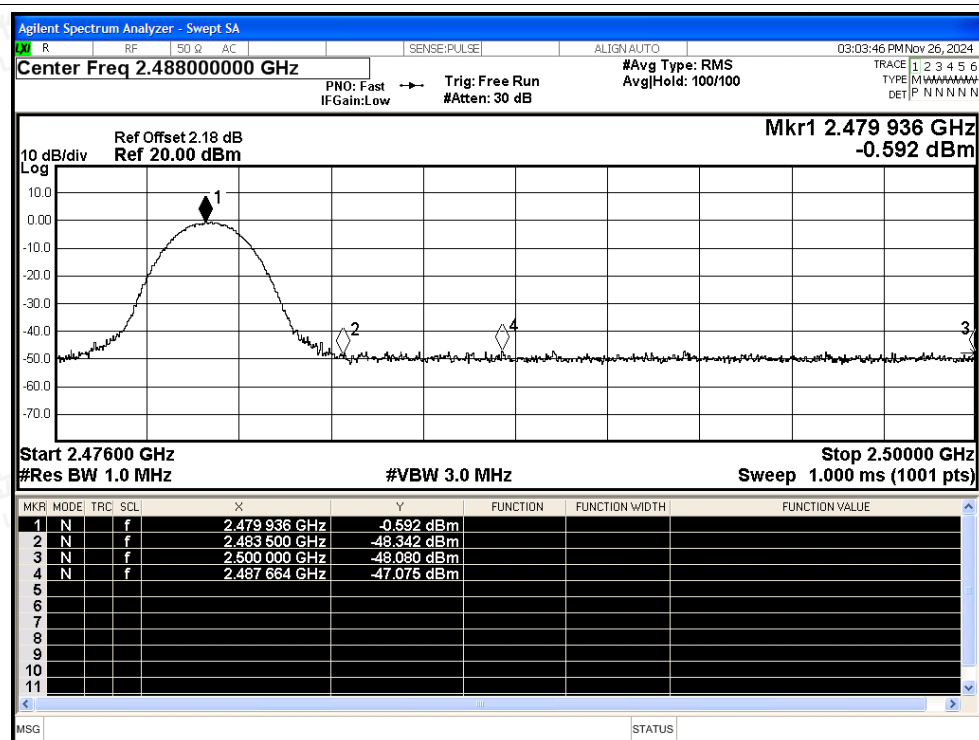
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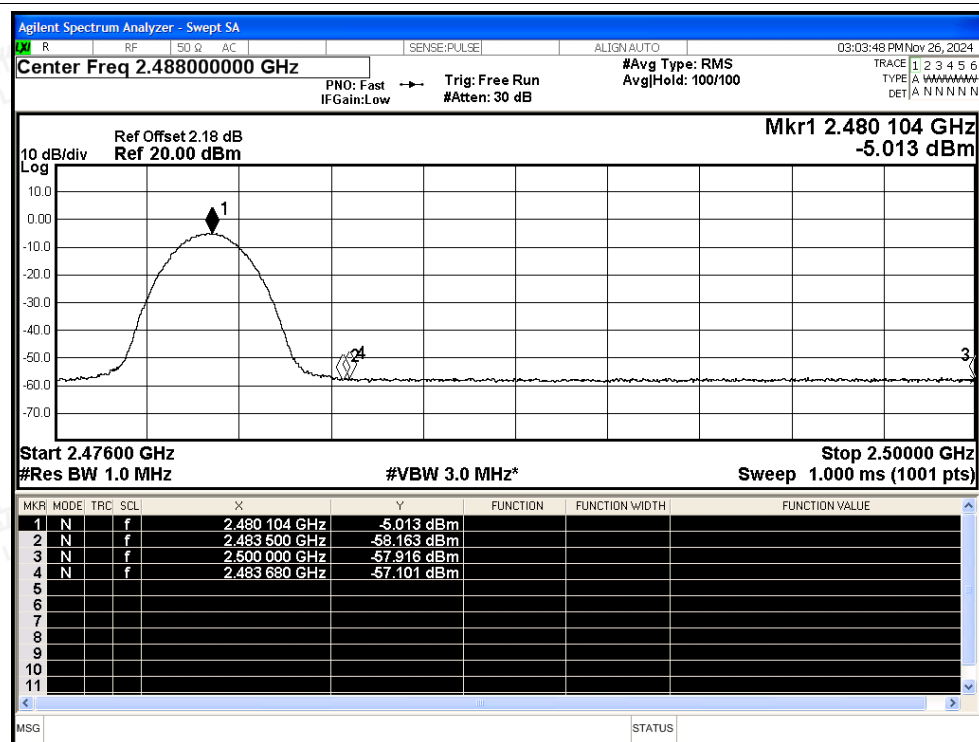
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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