



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: AI-Wireless Robotic Pool Cleaner

Test Model: X80

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Nick Peng





A.1 -20dB Bandwidth

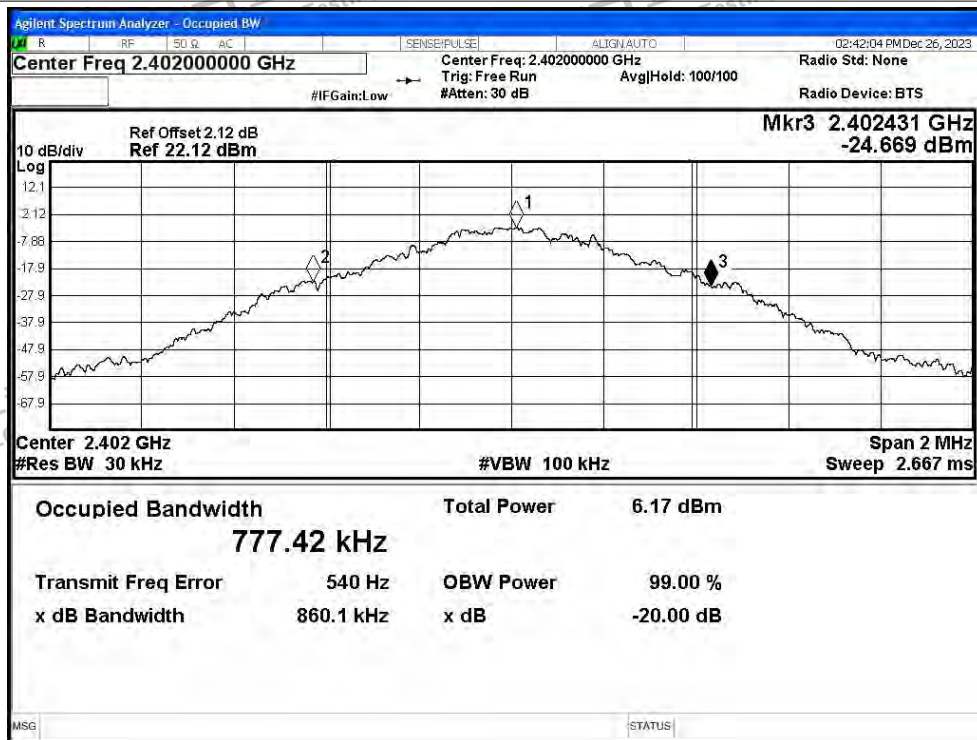
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.86	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.843	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.813	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.294	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.308	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.272	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.308	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.275	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.247	N/A	Pass



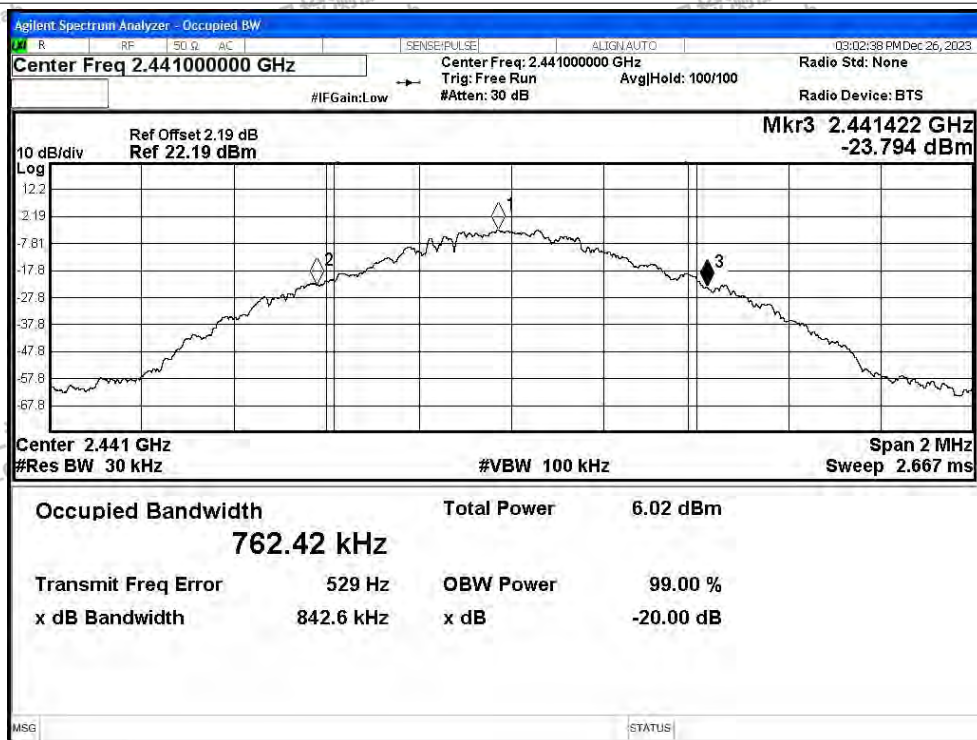


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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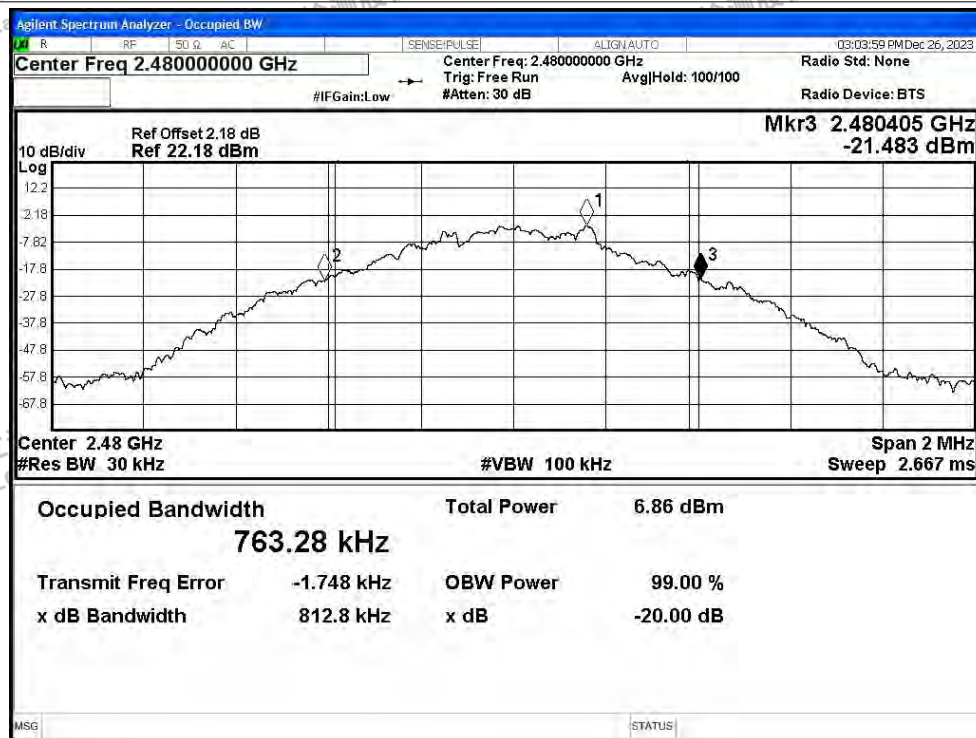
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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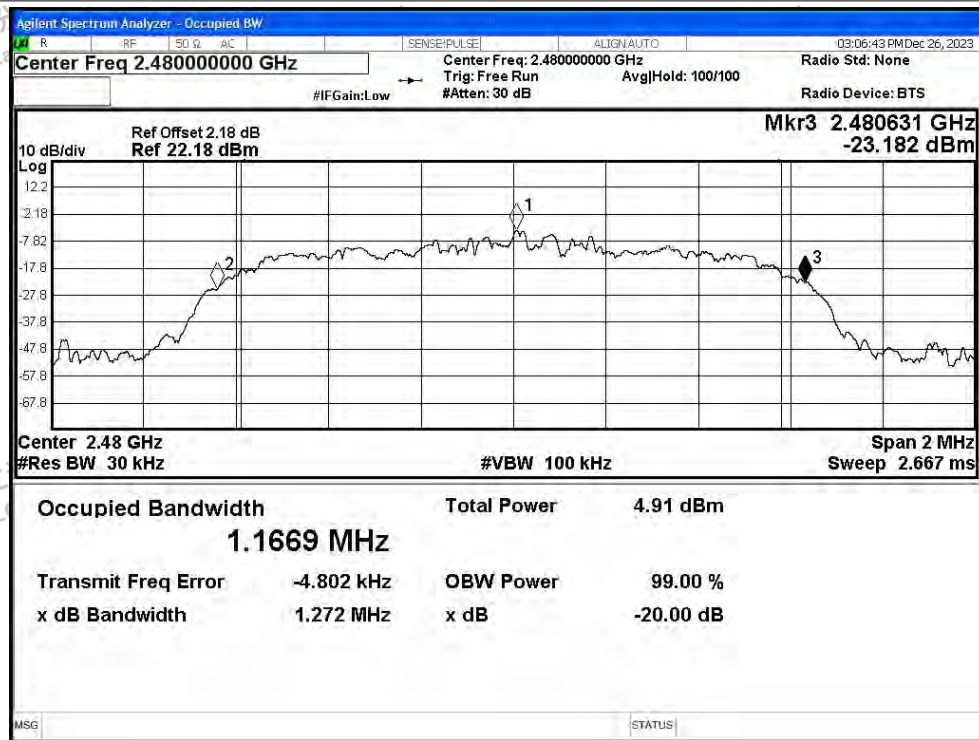
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

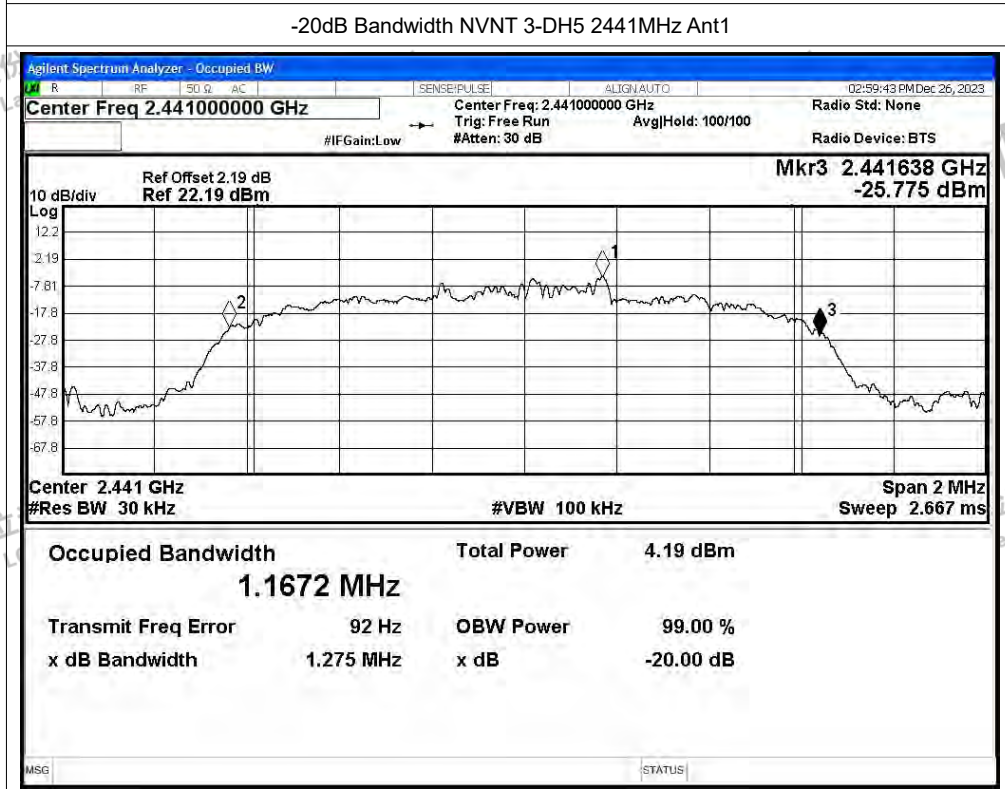
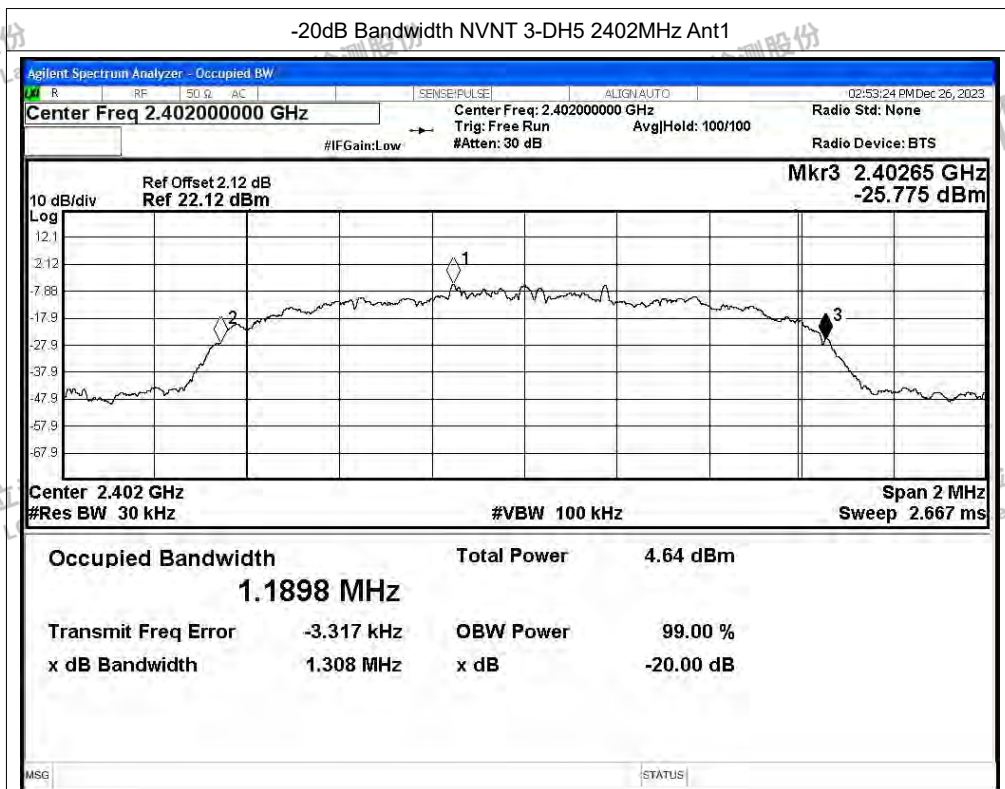


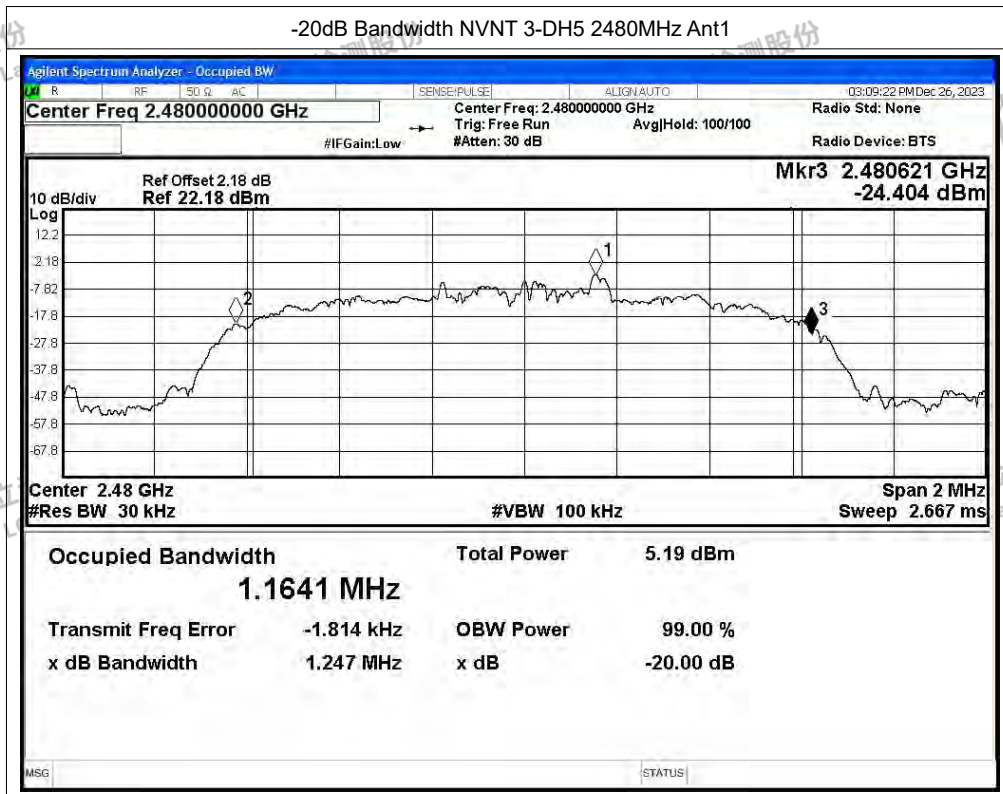
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A.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.763
NVNT	1-DH5	2441	Ant1	0.766
NVNT	1-DH5	2480	Ant1	0.751
NVNT	2-DH5	2402	Ant1	1.174
NVNT	2-DH5	2441	Ant1	1.17
NVNT	2-DH5	2480	Ant1	1.165
NVNT	3-DH5	2402	Ant1	1.187
NVNT	3-DH5	2441	Ant1	1.169
NVNT	3-DH5	2480	Ant1	1.178



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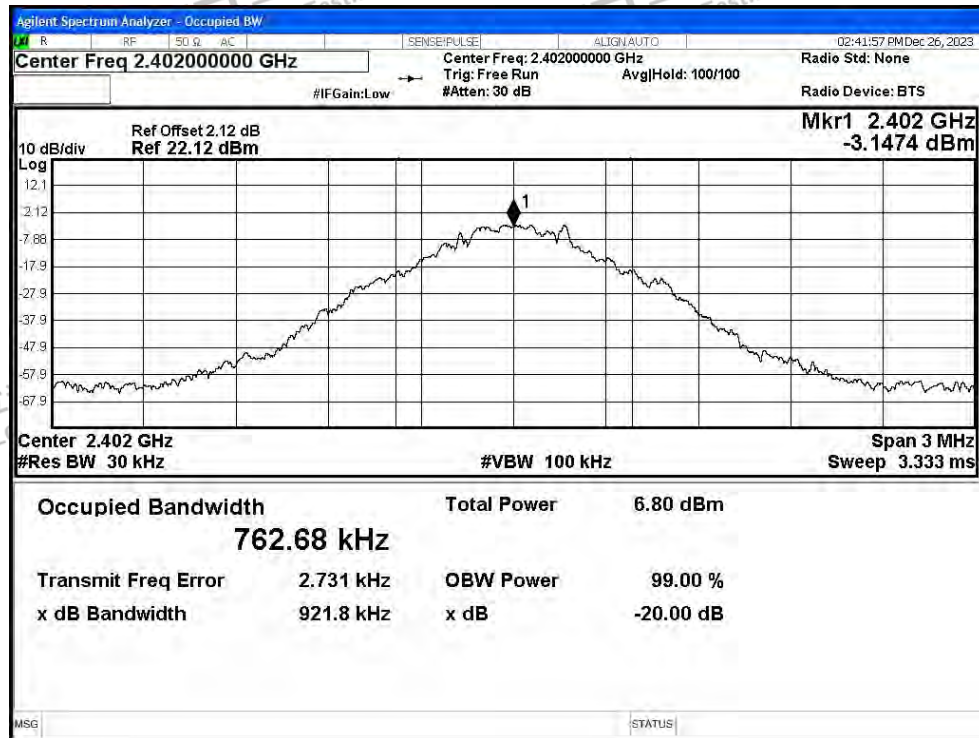
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Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1



OBW NVNT 1-DH5 2441MHz Ant1

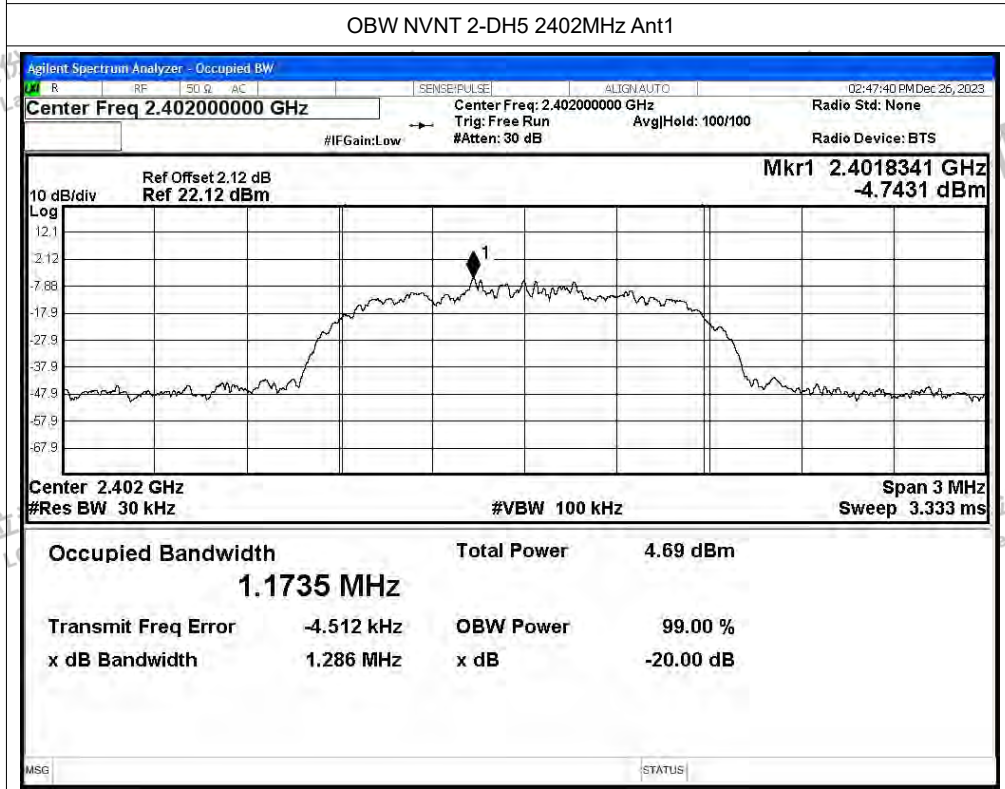
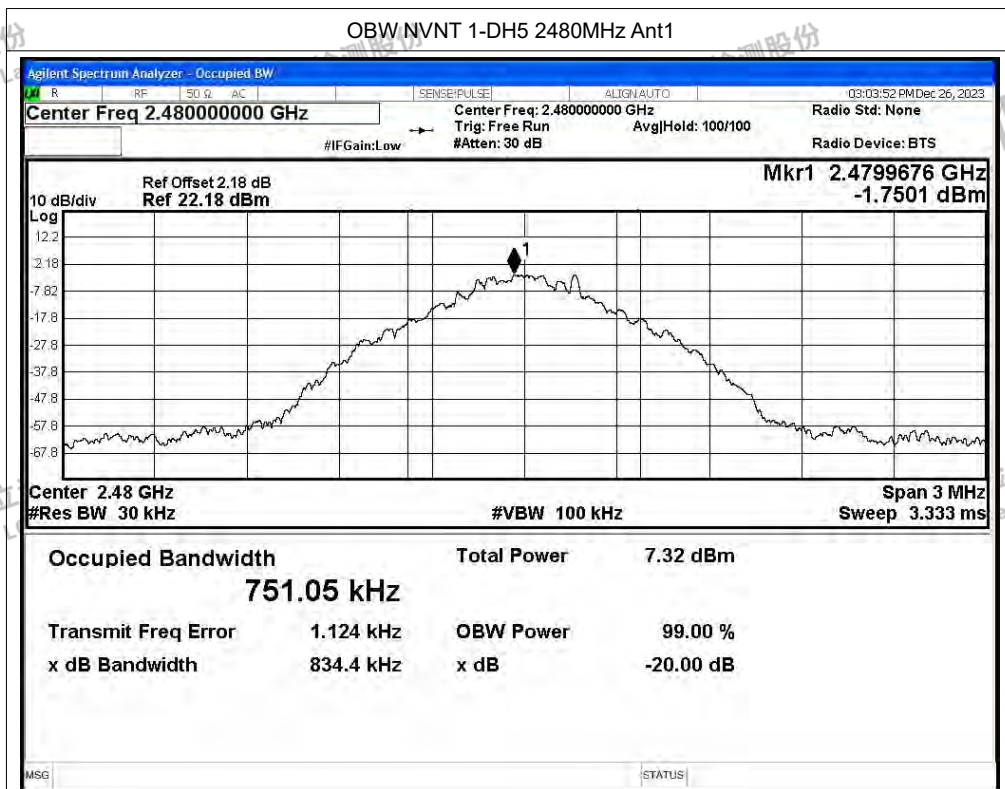


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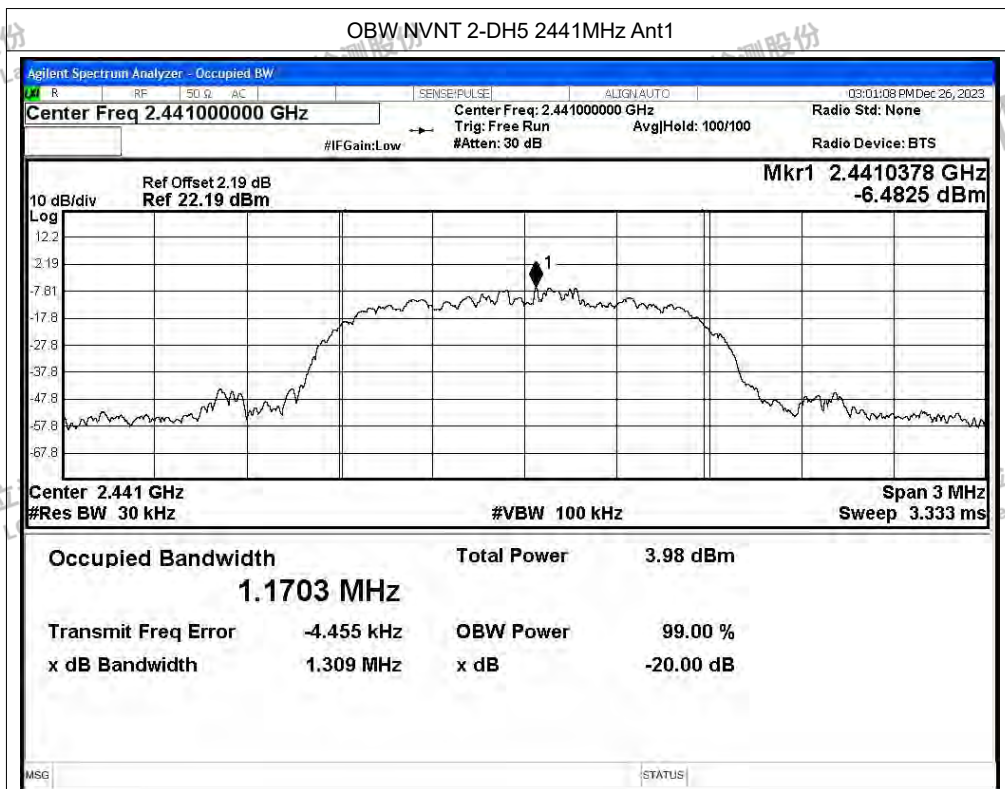


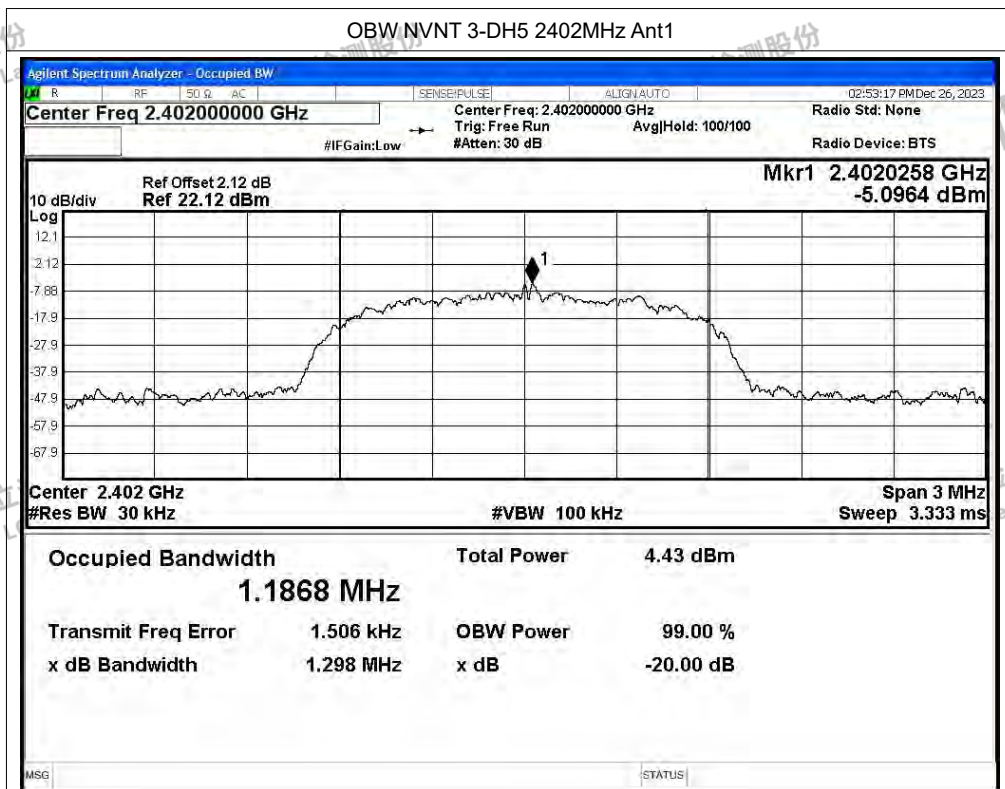
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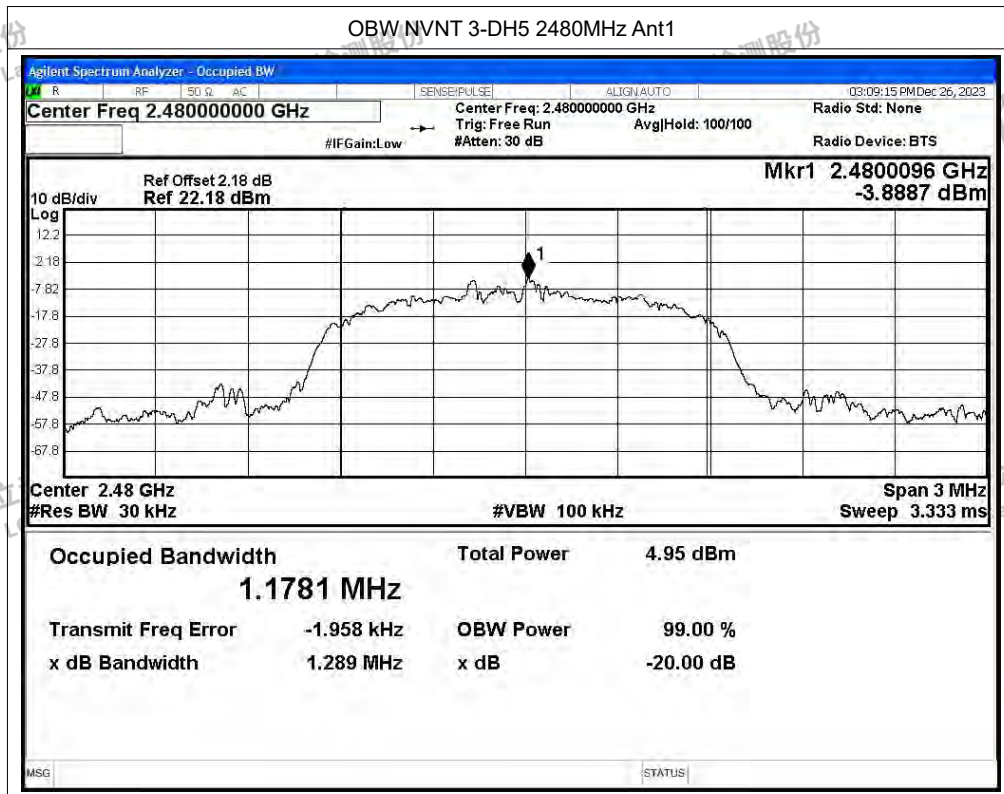


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A.3 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.61	21	Pass
NVNT	1-DH5	2441	Ant1	0.12	21	Pass
NVNT	1-DH5	2480	Ant1	0.99	21	Pass
NVNT	2-DH5	2402	Ant1	-0.15	21	Pass
NVNT	2-DH5	2441	Ant1	-0.55	21	Pass
NVNT	2-DH5	2480	Ant1	0.33	21	Pass
NVNT	3-DH5	2402	Ant1	0.16	21	Pass
NVNT	3-DH5	2441	Ant1	-0.83	21	Pass
NVNT	3-DH5	2480	Ant1	0.28	21	Pass

EIRP

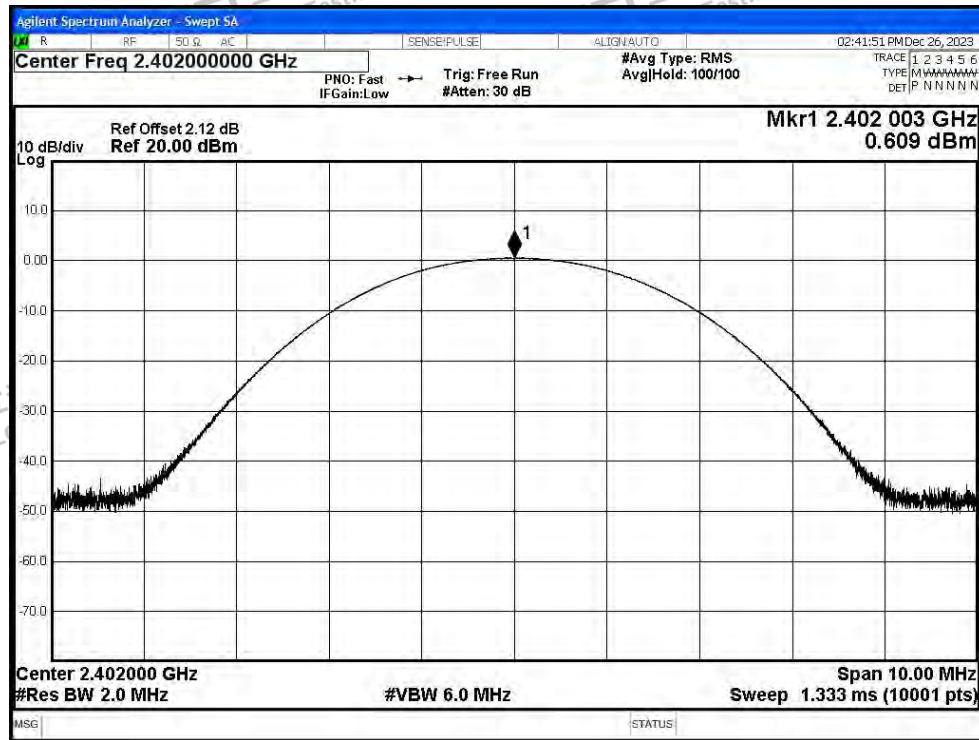
Condition	Mode	Frequency (MHz)	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	2.5	3.11	36	Pass
NVNT	1-DH5	2441	2.5	2.62	36	Pass
NVNT	1-DH5	2480	2.5	3.49	36	Pass
NVNT	2-DH5	2402	2.5	2.35	36	Pass
NVNT	2-DH5	2441	2.5	1.95	36	Pass
NVNT	2-DH5	2480	2.5	2.83	36	Pass
NVNT	3-DH5	2402	2.5	2.66	36	Pass
NVNT	3-DH5	2441	2.5	1.67	36	Pass
NVNT	3-DH5	2480	2.5	2.78	36	Pass



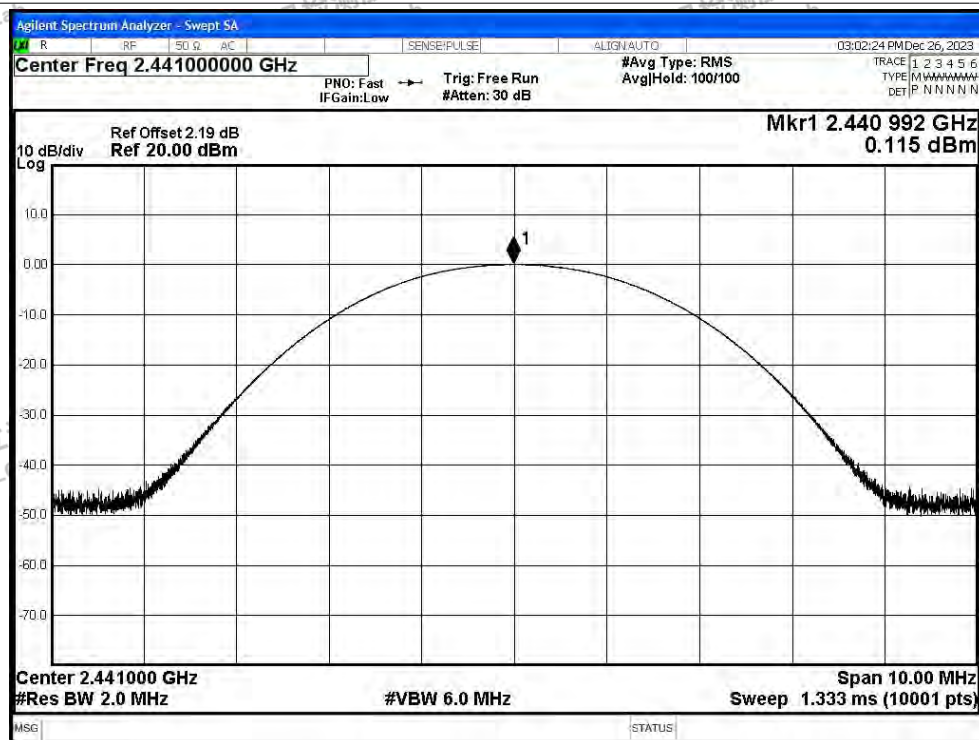


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

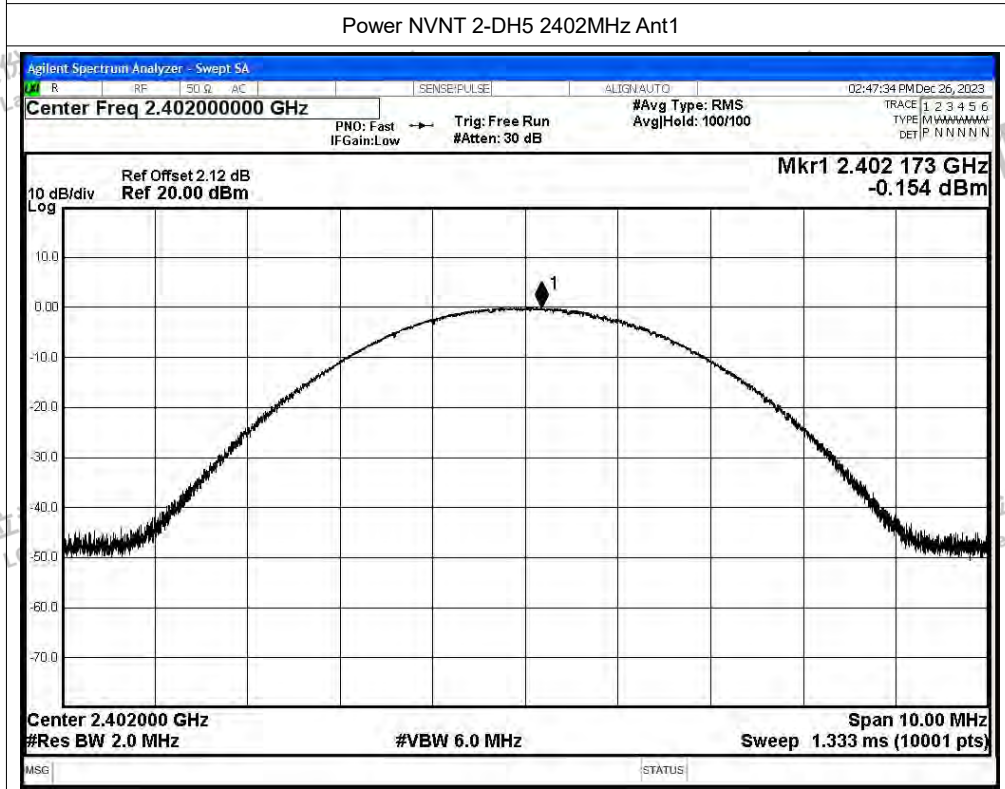
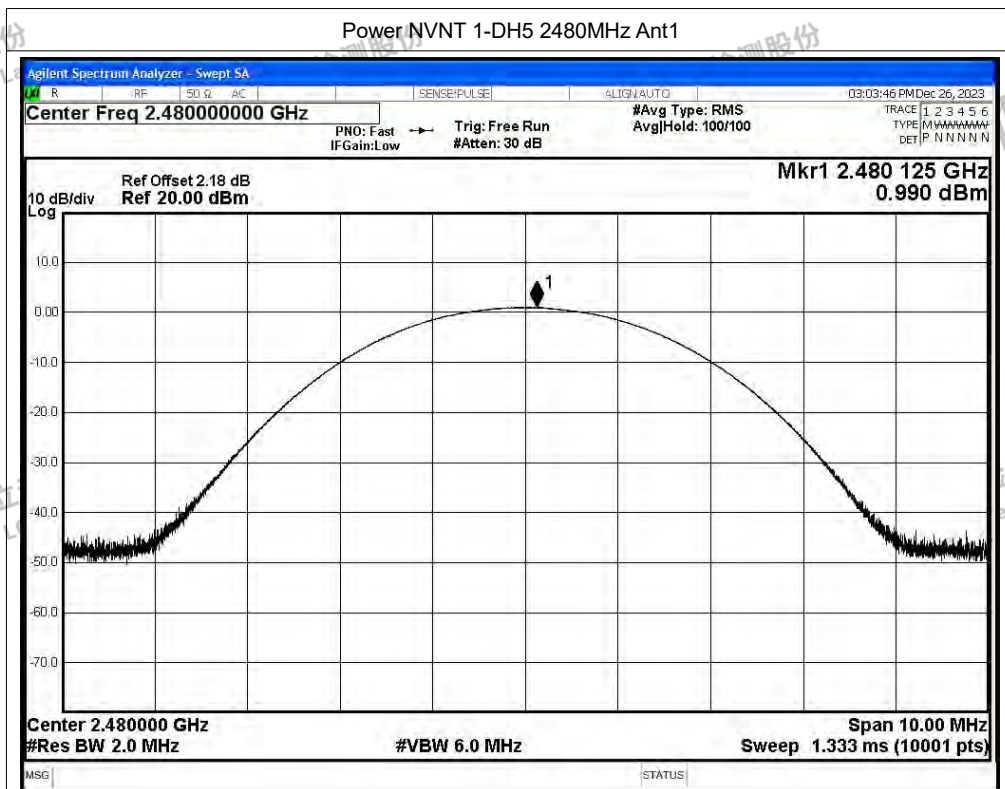


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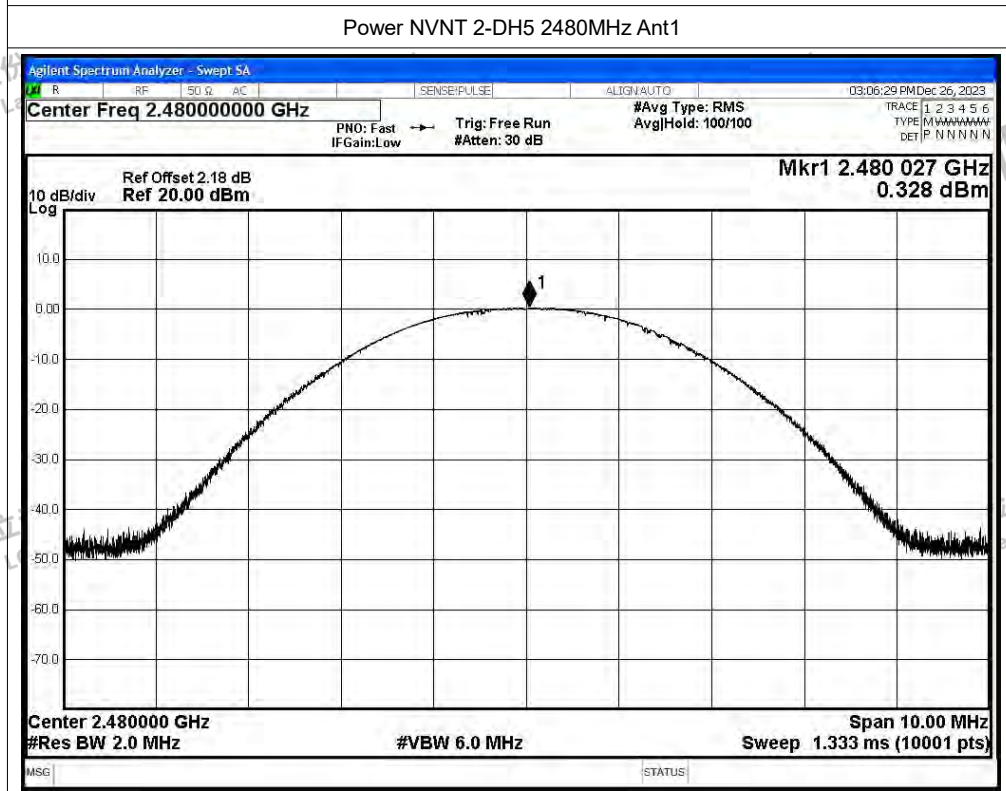
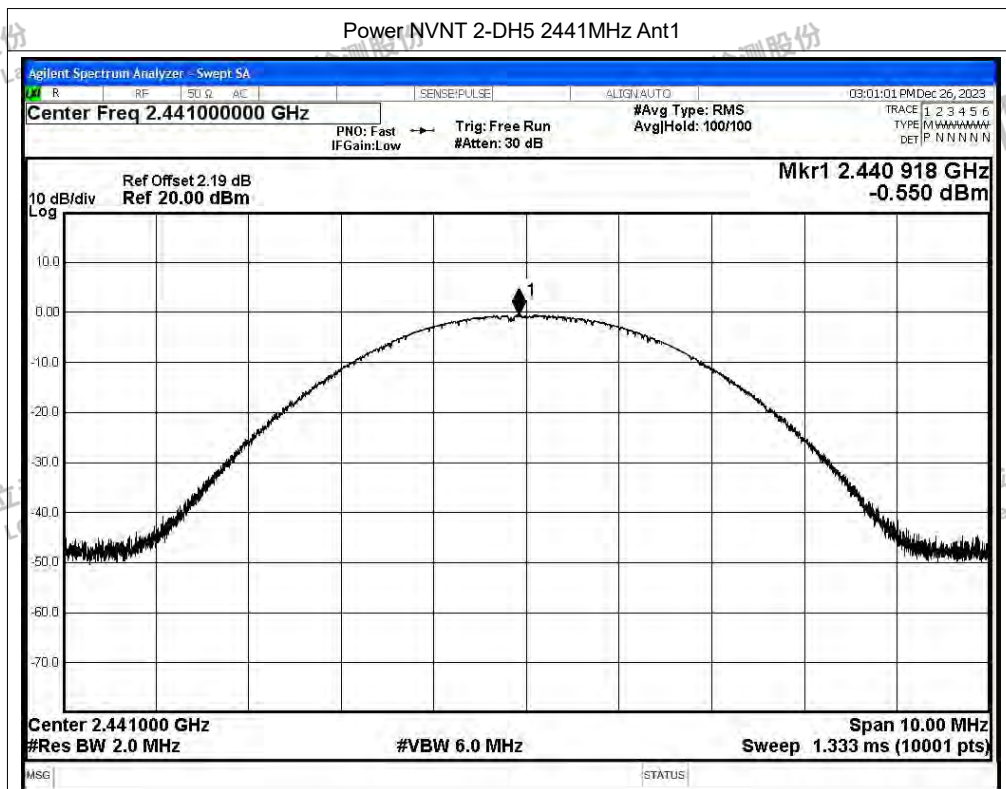


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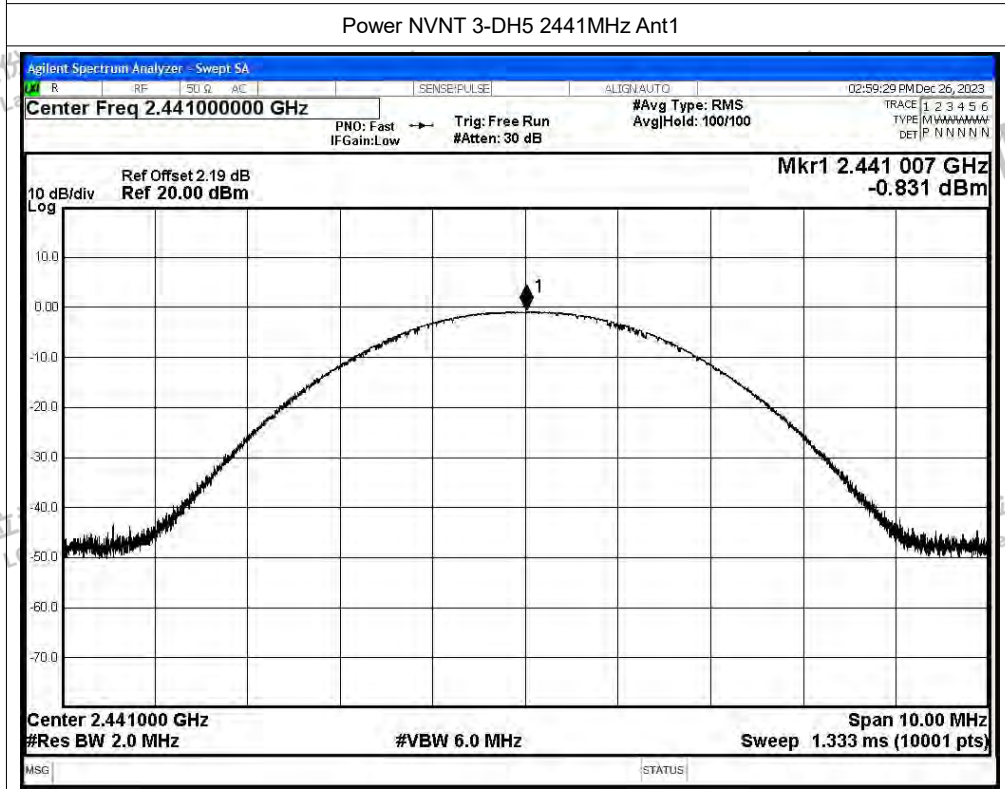
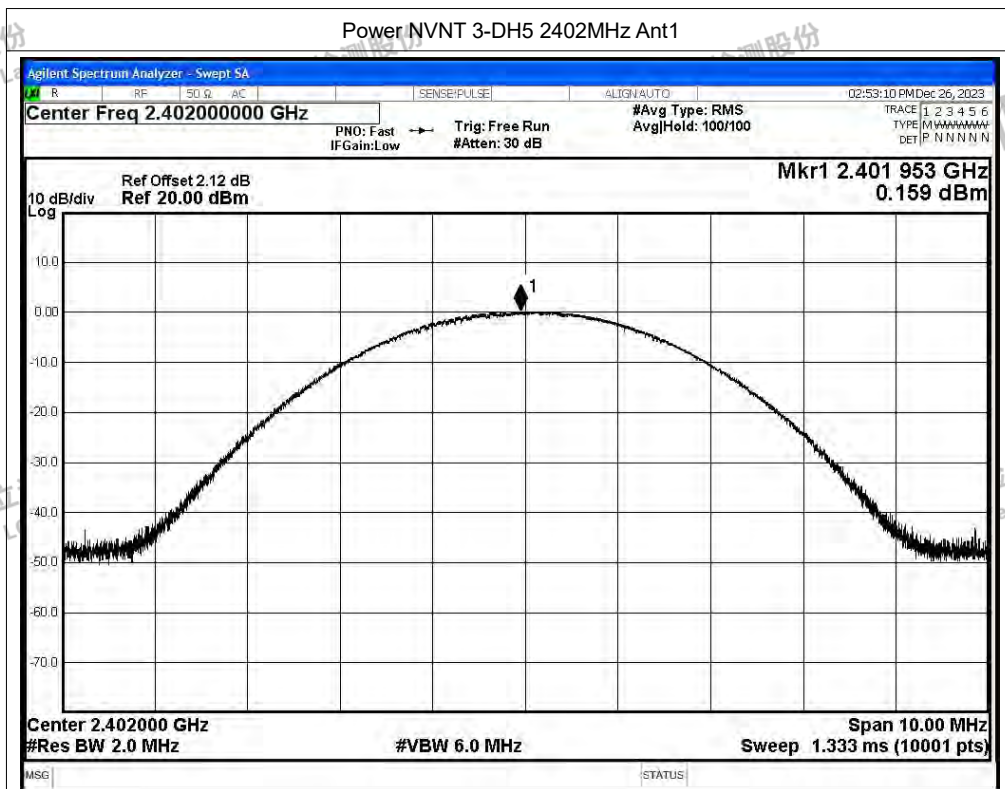


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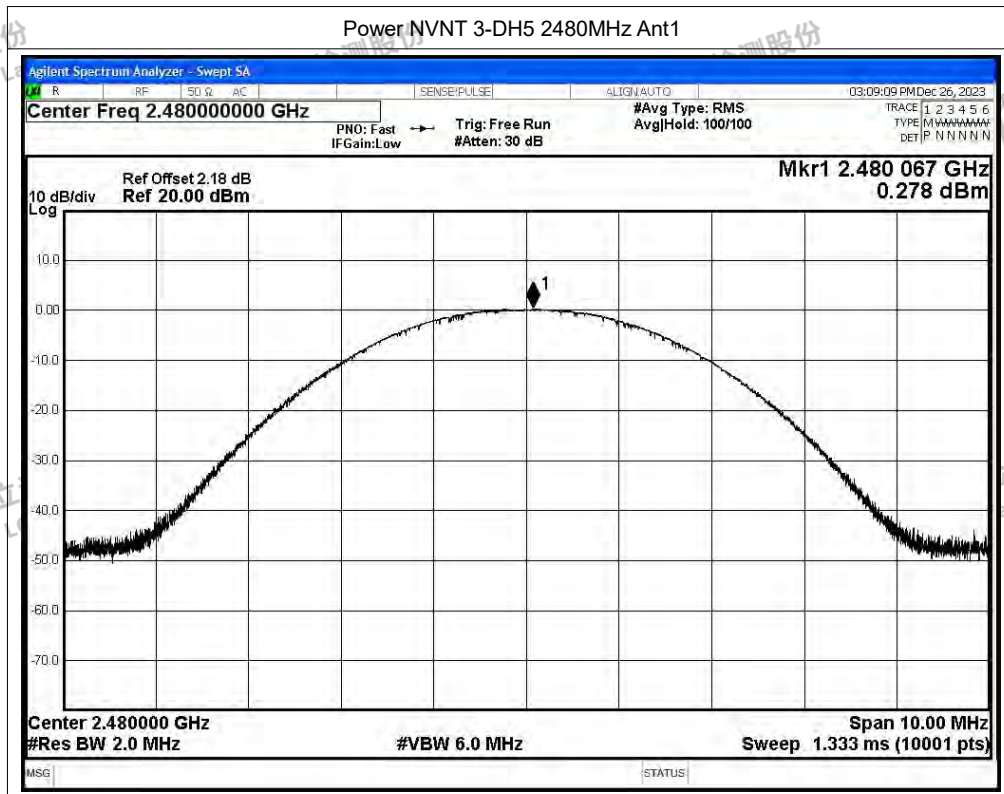


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A.4 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.016	2402.976	0.998	0.573	Pass
NVNT	2-DH5	Ant1	2402.142	2403.008	1.136	0.863	Pass
NVNT	3-DH5	Ant1	2402.17	2403.168	0.986	0.872	Pass



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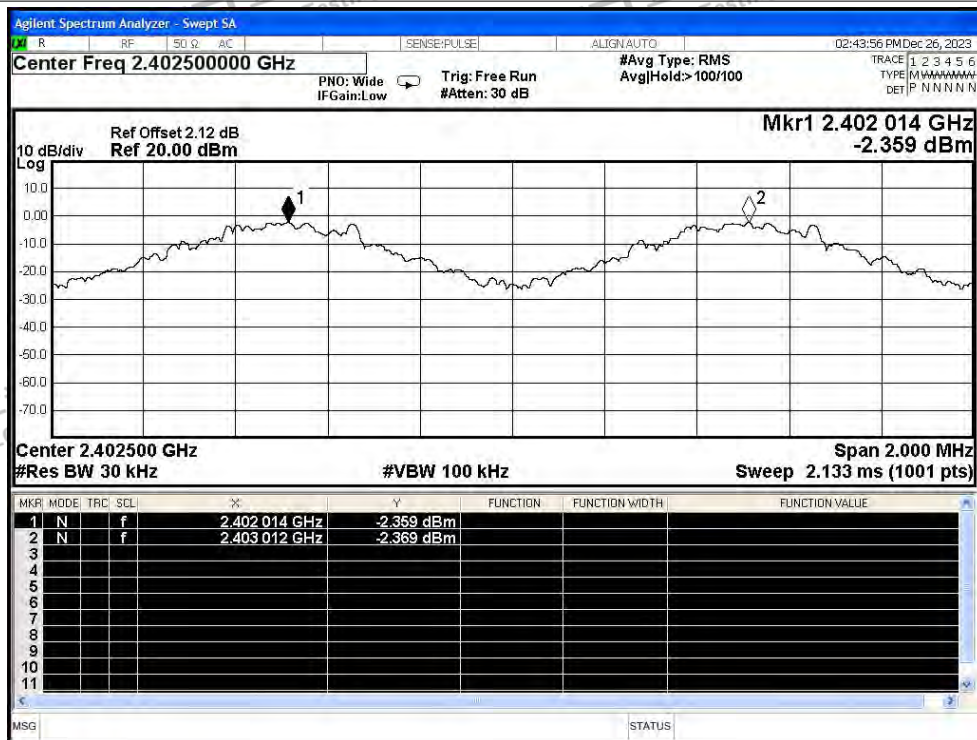
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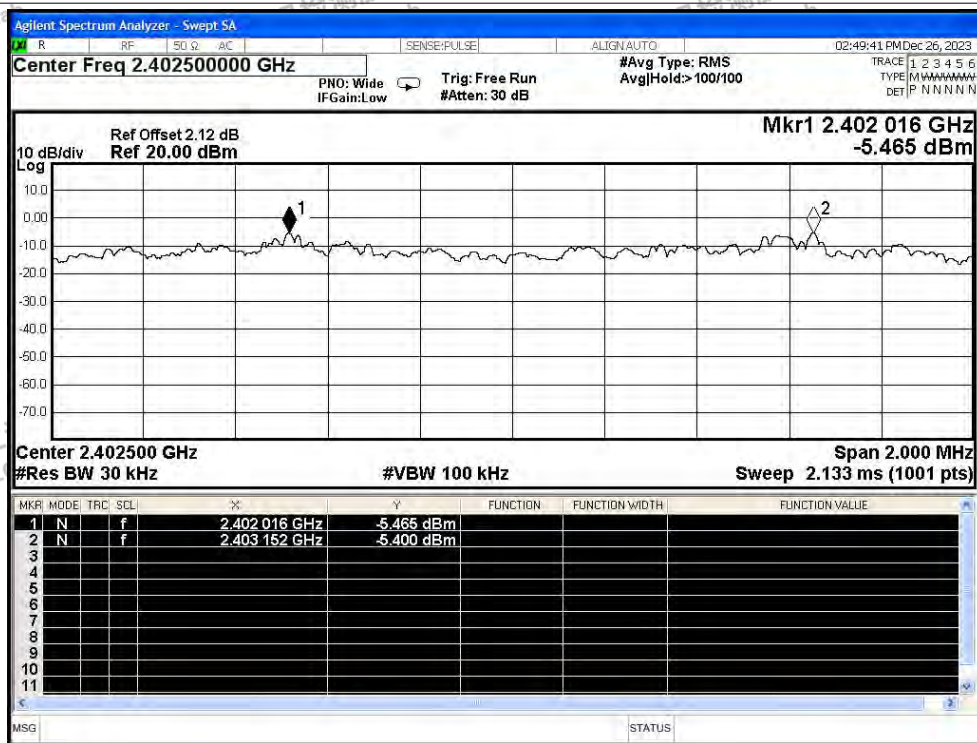


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

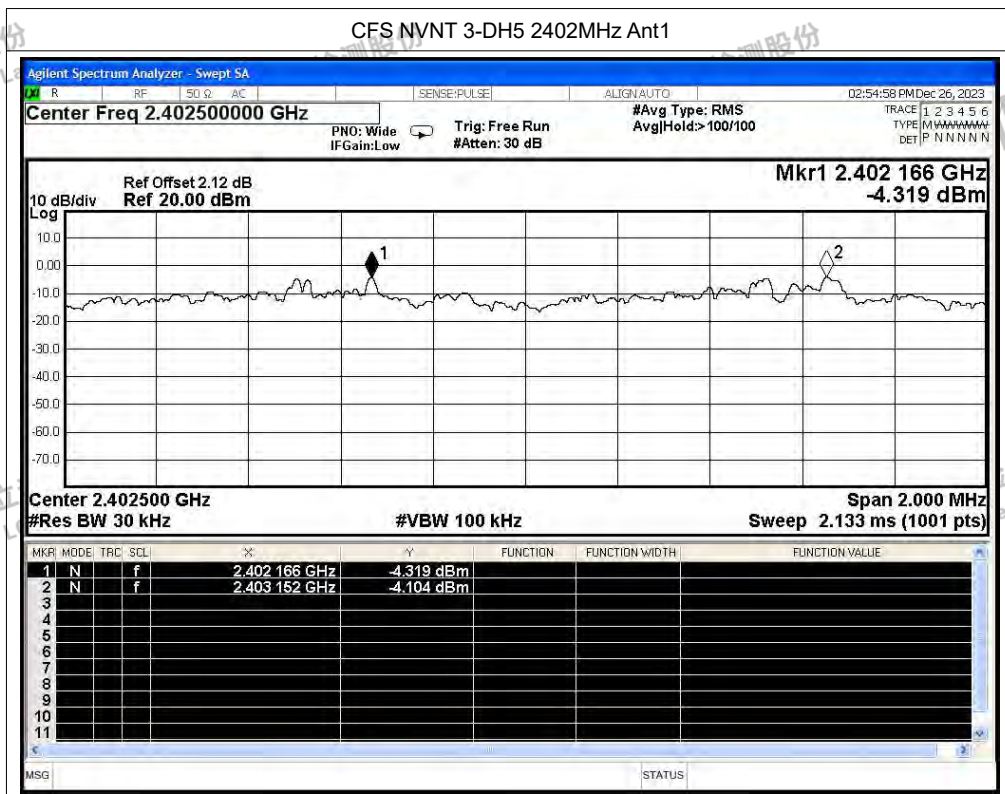


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A.5 Dwell Time

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	2.882	305.492	106	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.882	305.492	106	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	306.022	106	31600	400	Pass



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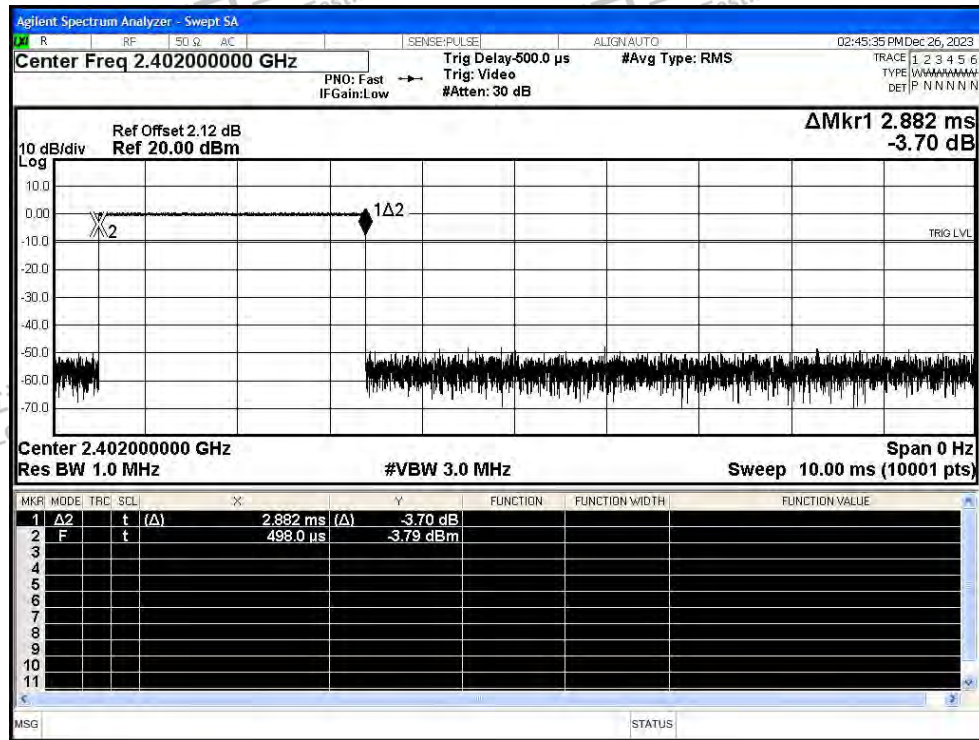
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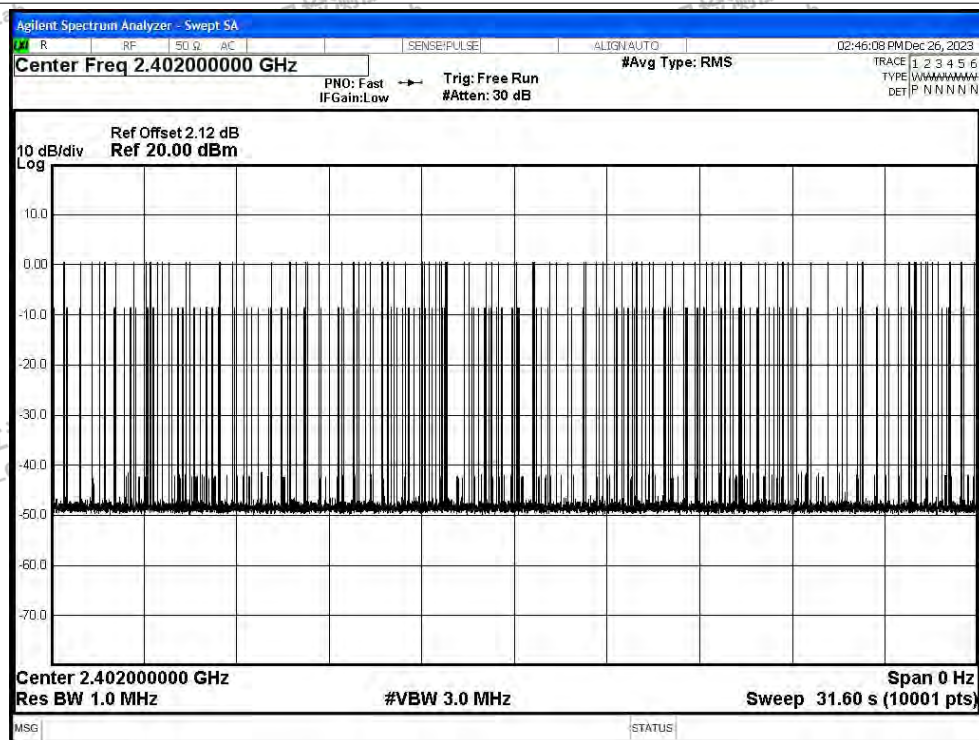


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

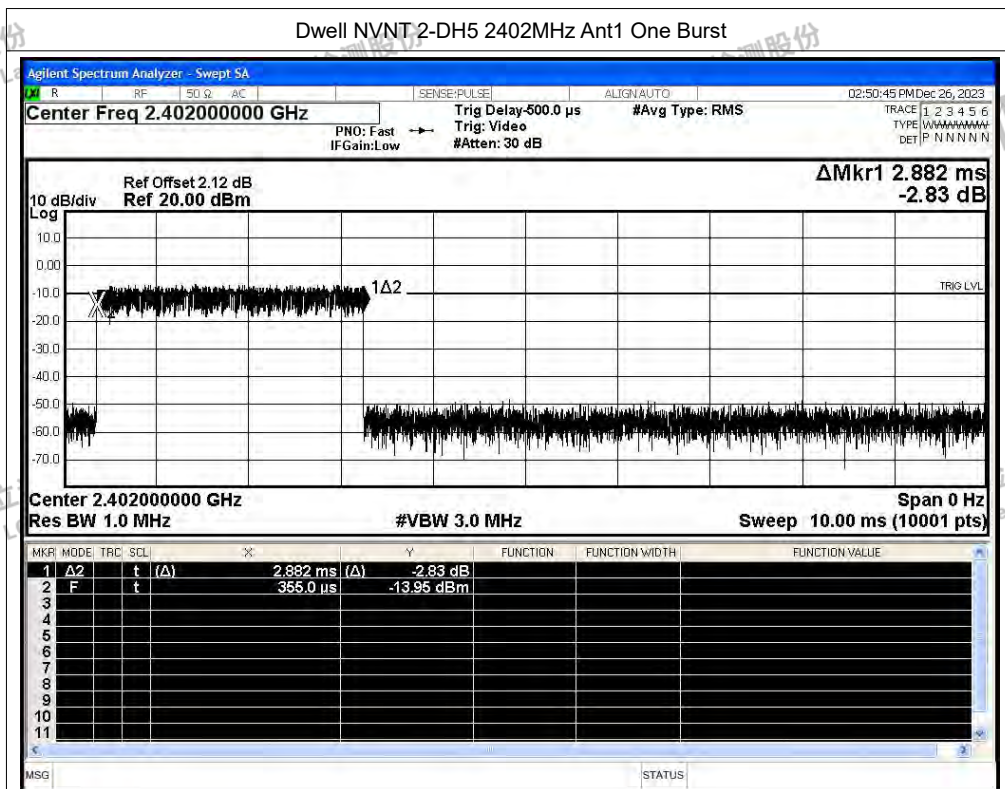


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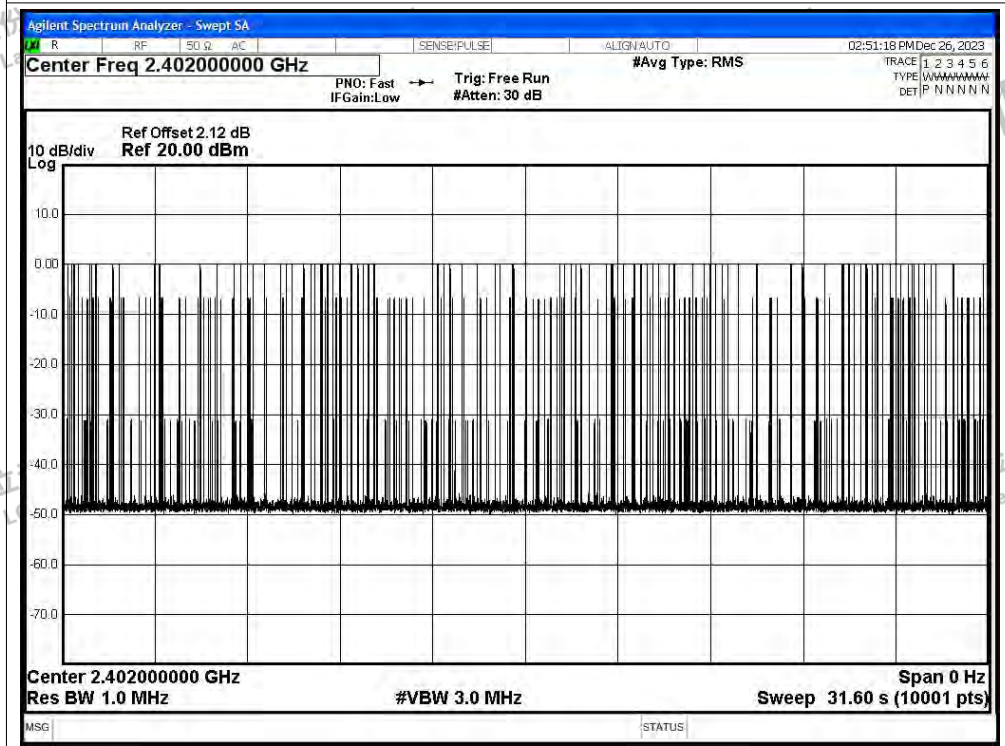
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Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

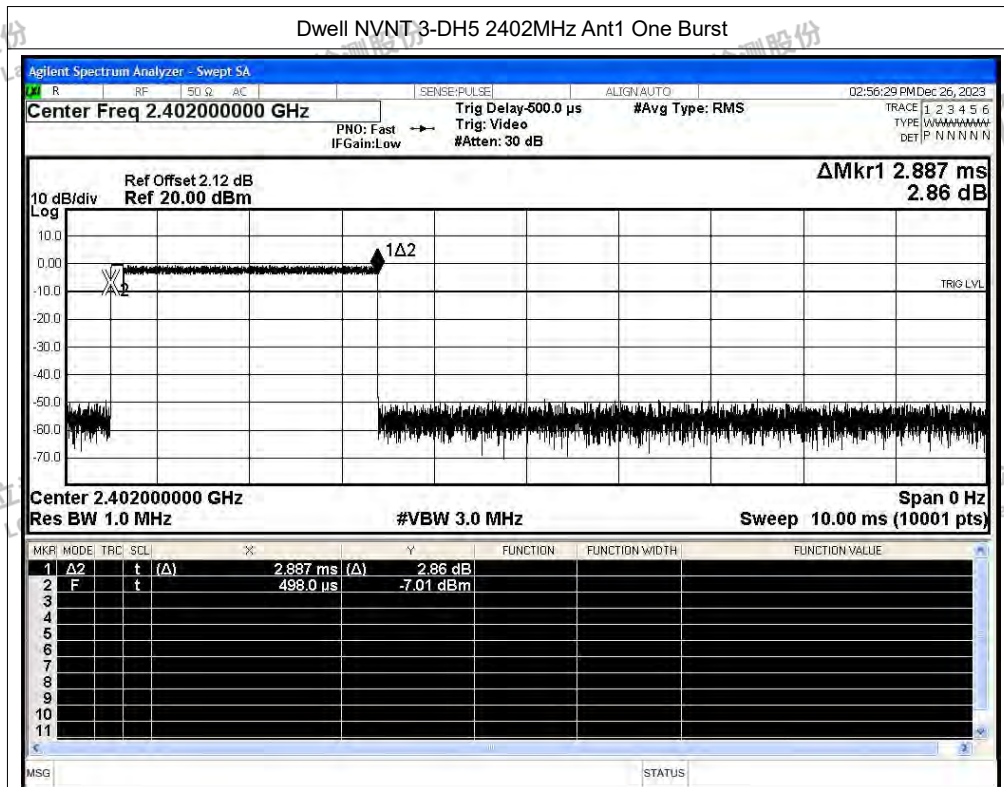


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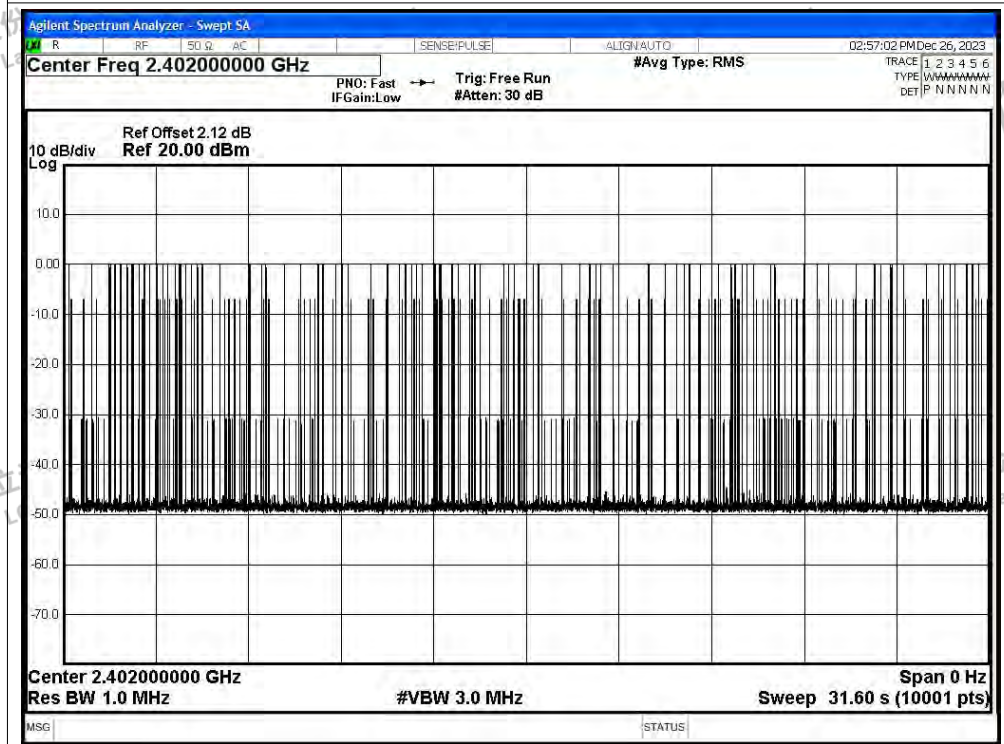
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Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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A.6 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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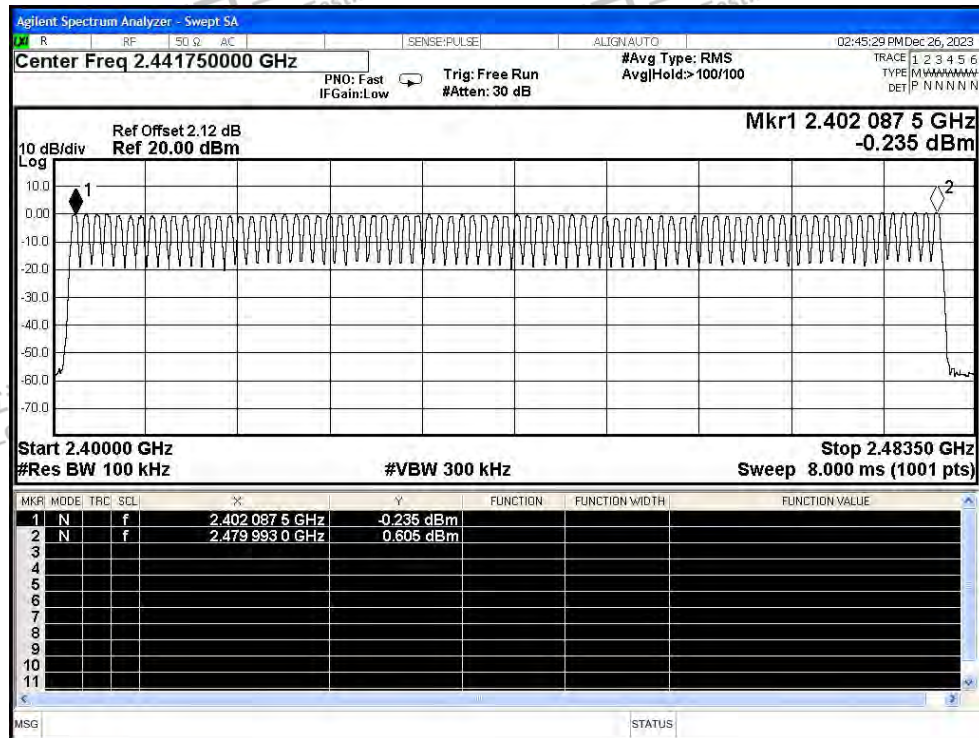
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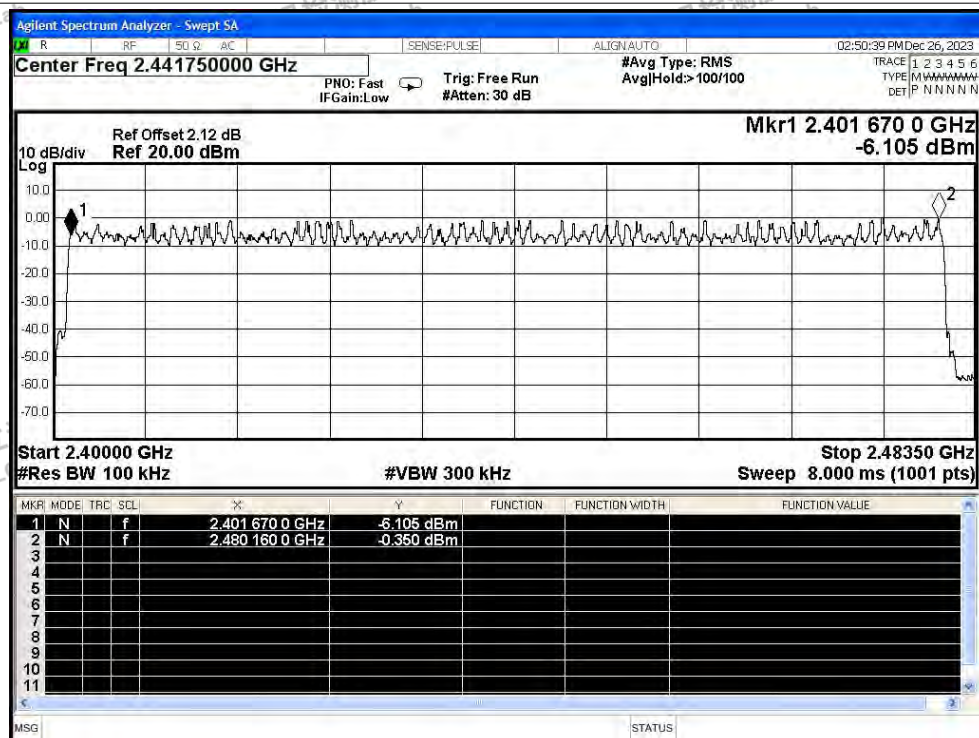


Test Graphs

Hopping No: NVNT 1-DH5 2402MHz Ant1



Hopping No: NVNT 2-DH5 2402MHz Ant1

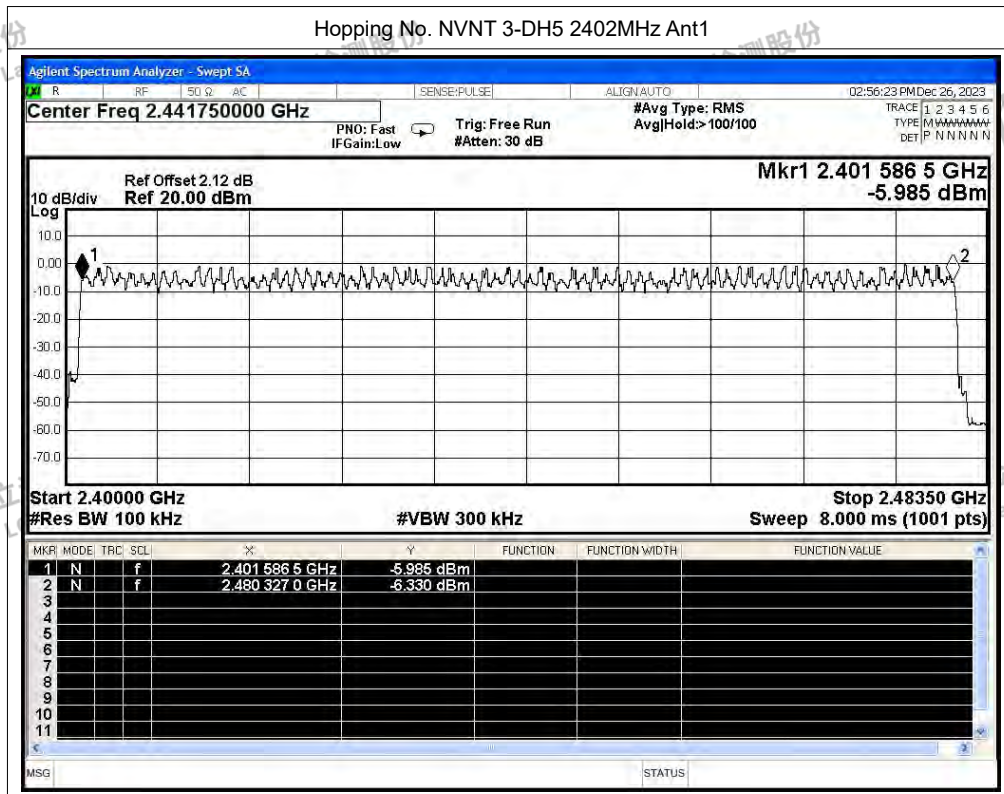


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A.7 Band Edge

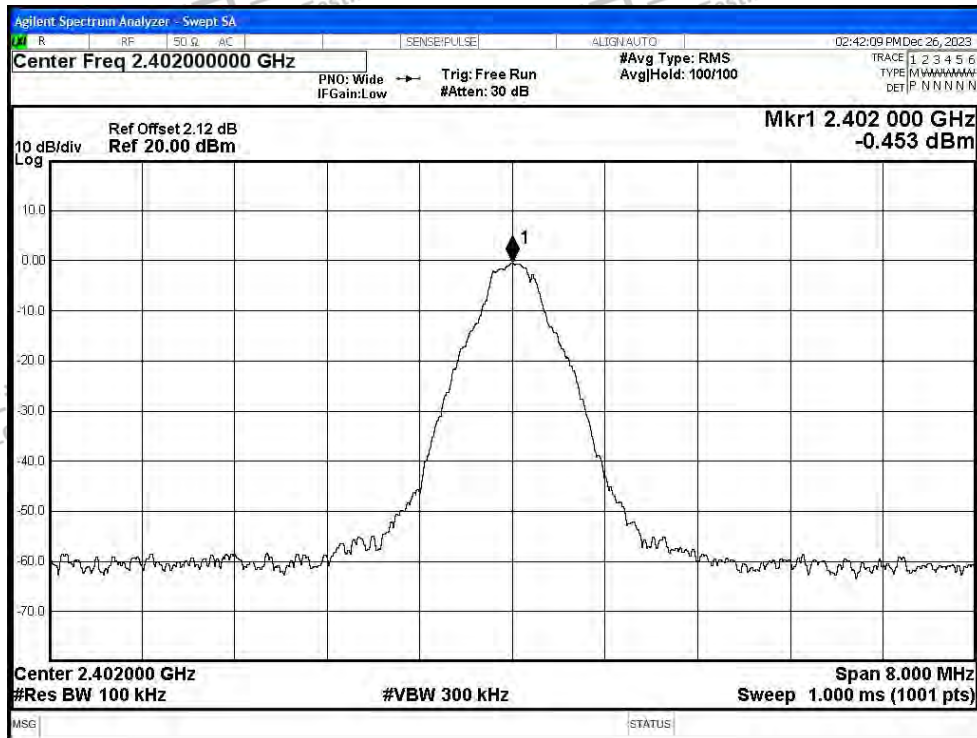
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.6	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.18	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.88	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.76	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.52	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.91	-20	Pass



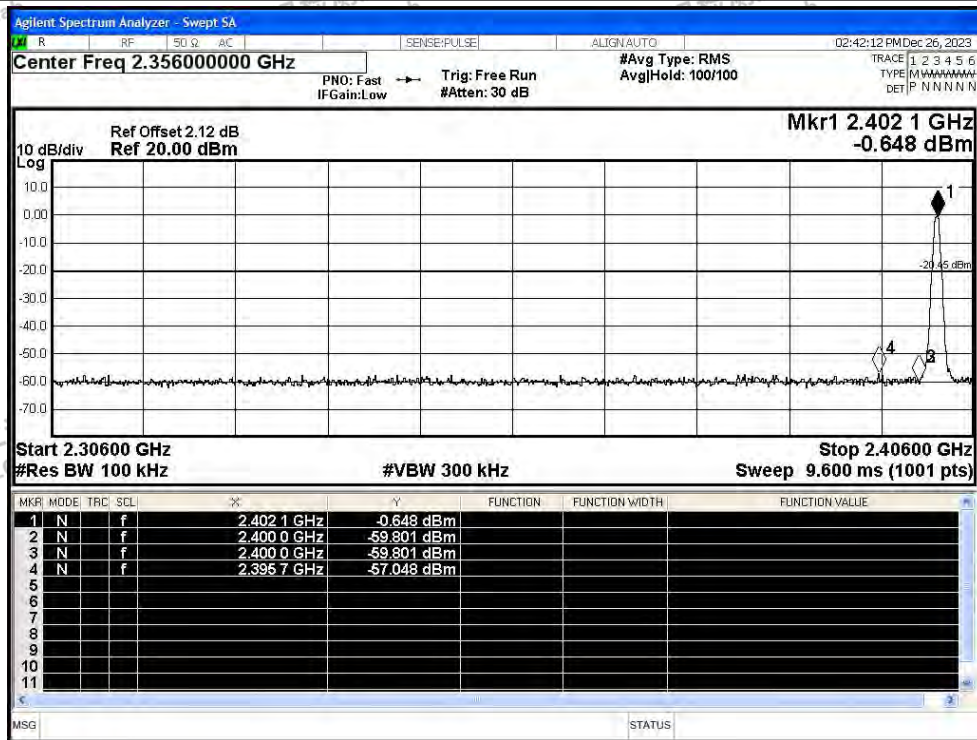


Test Graphs

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



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

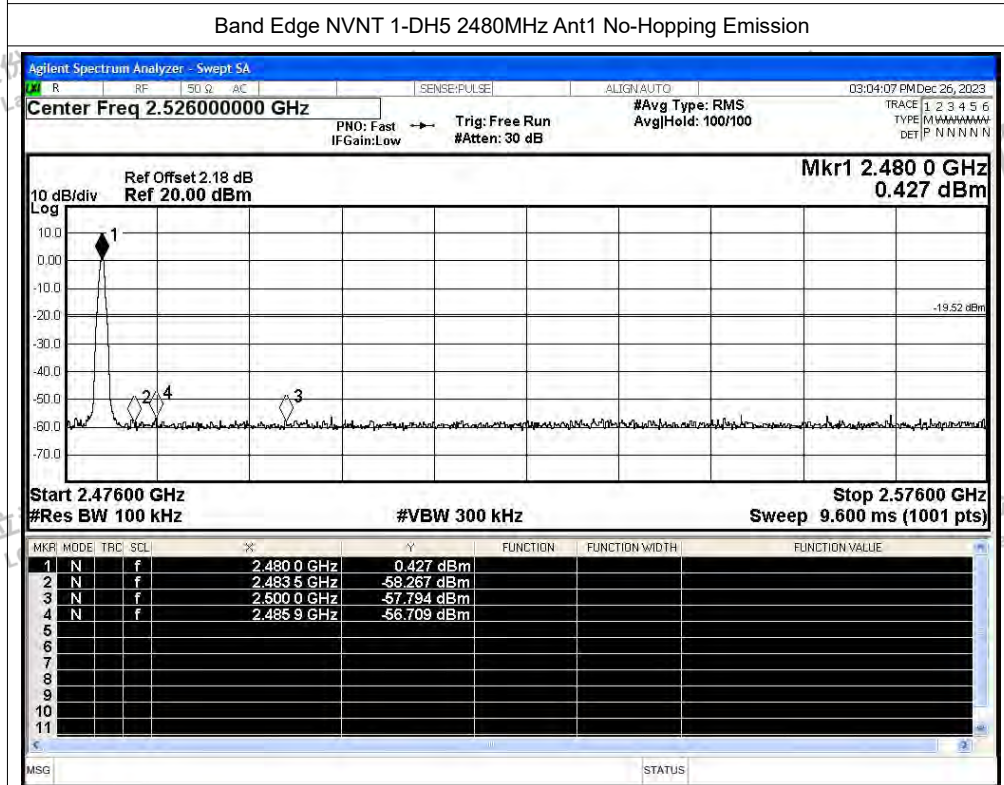
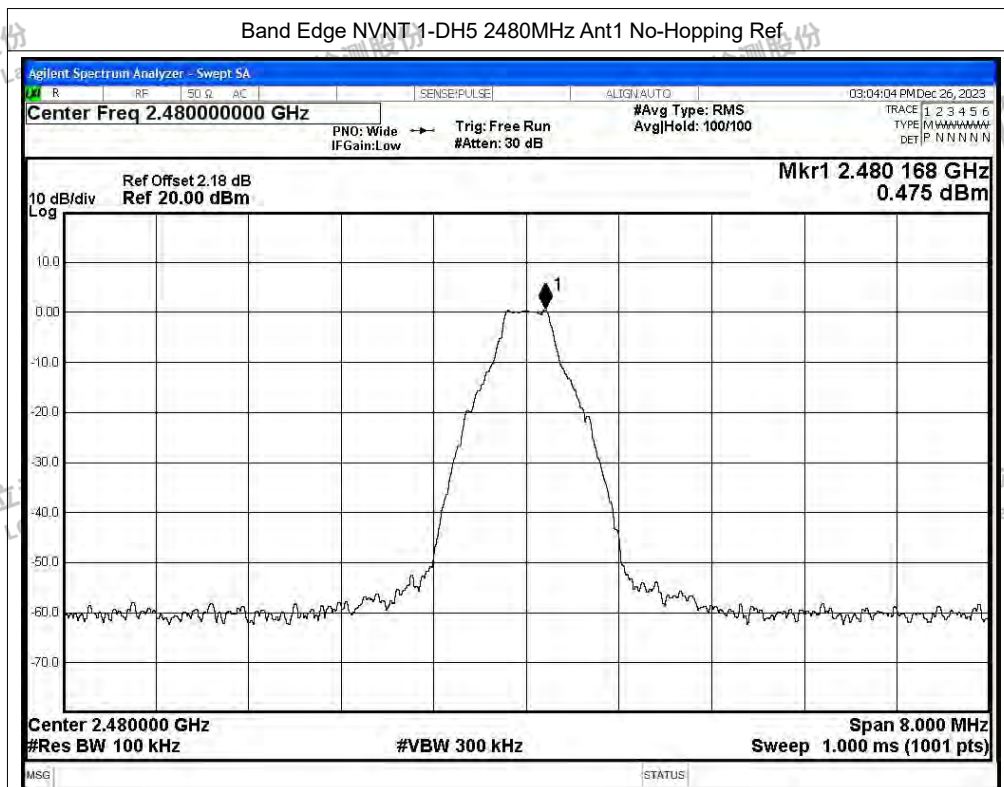


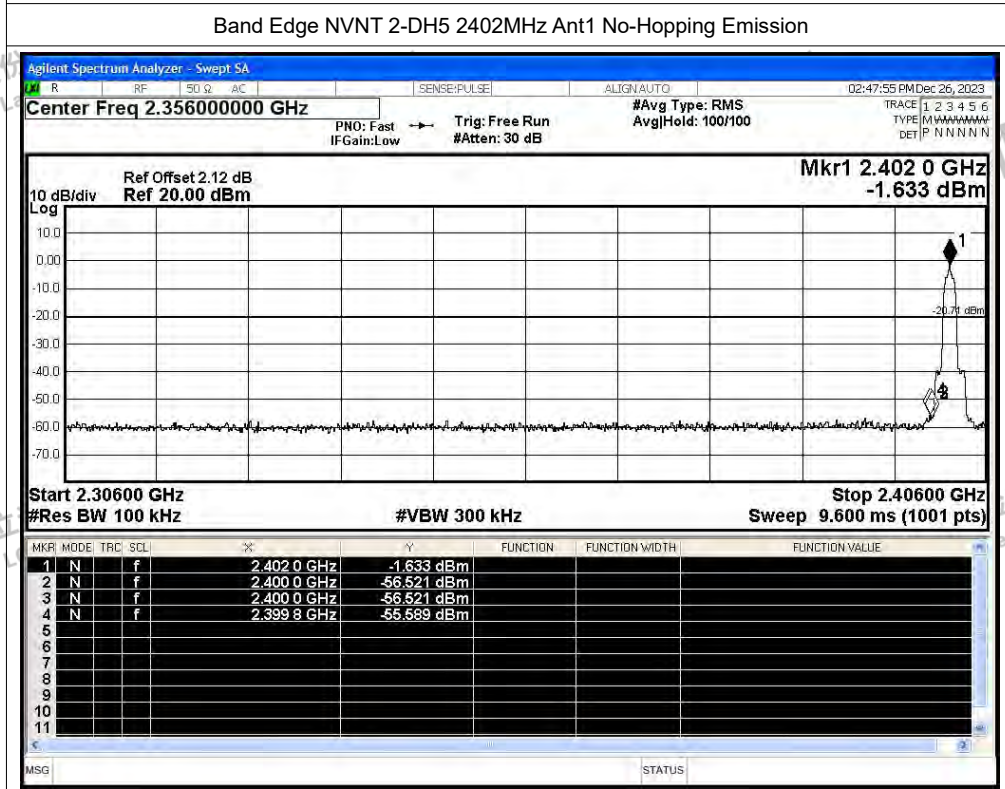
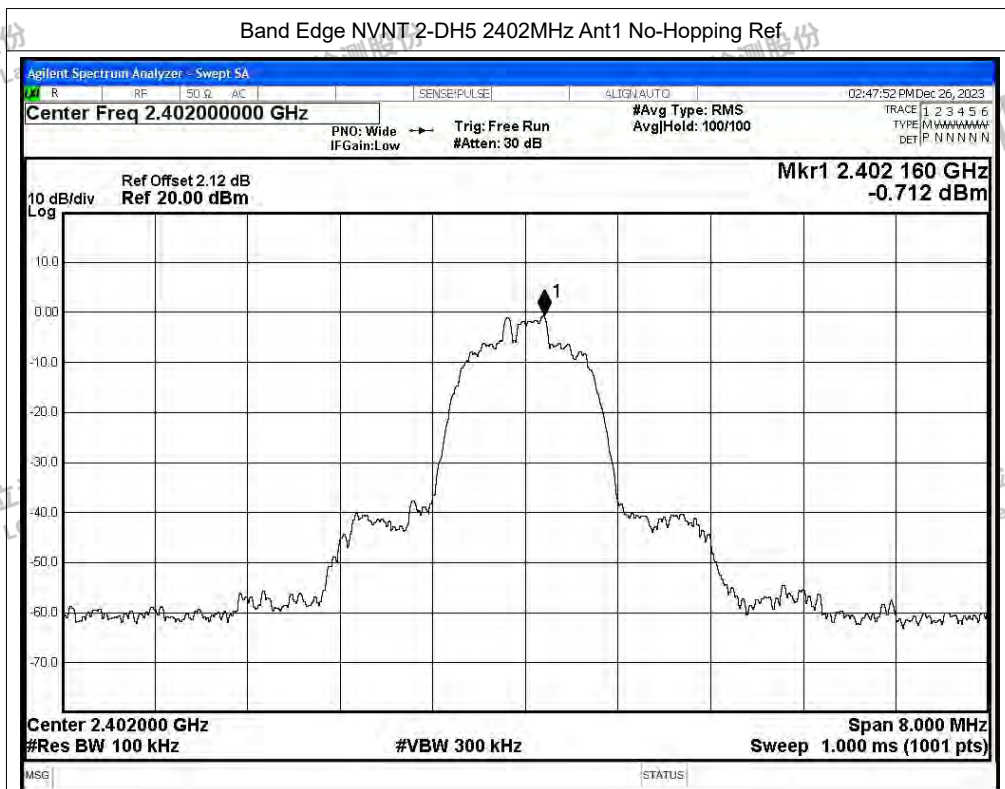
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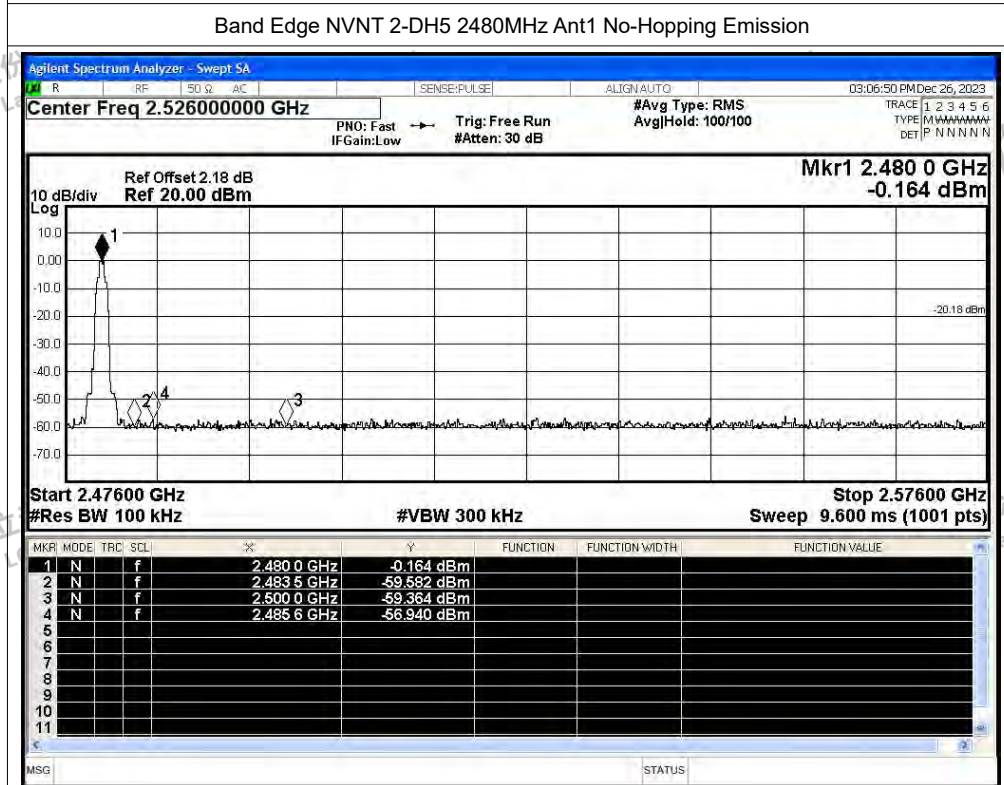
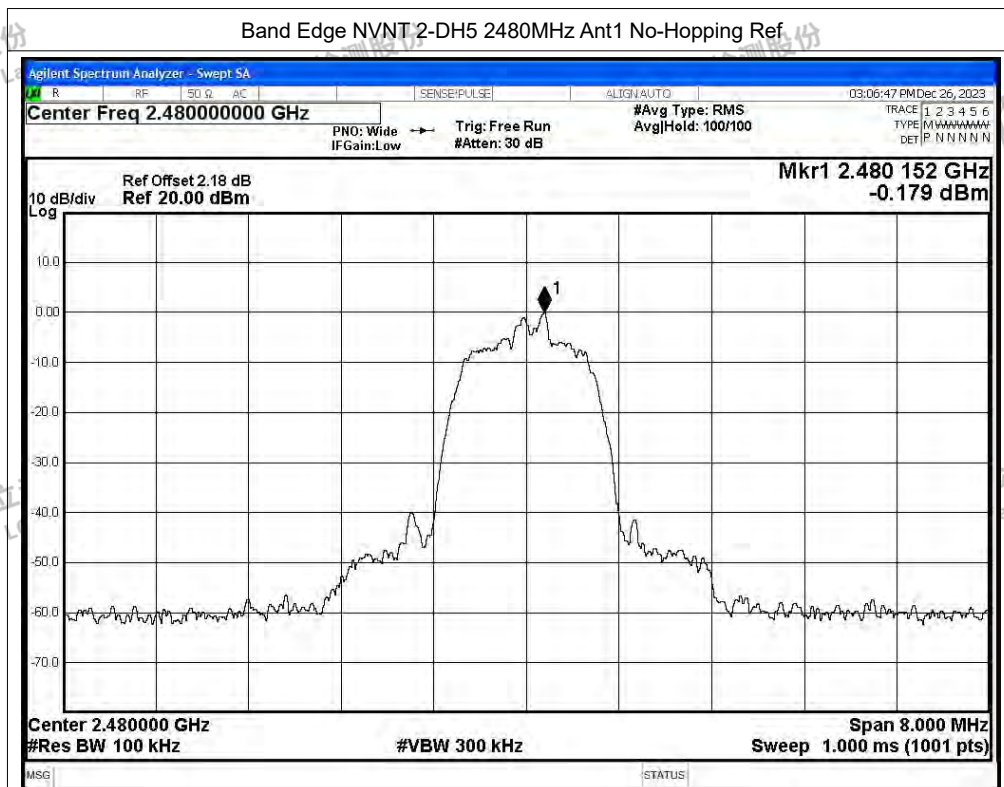
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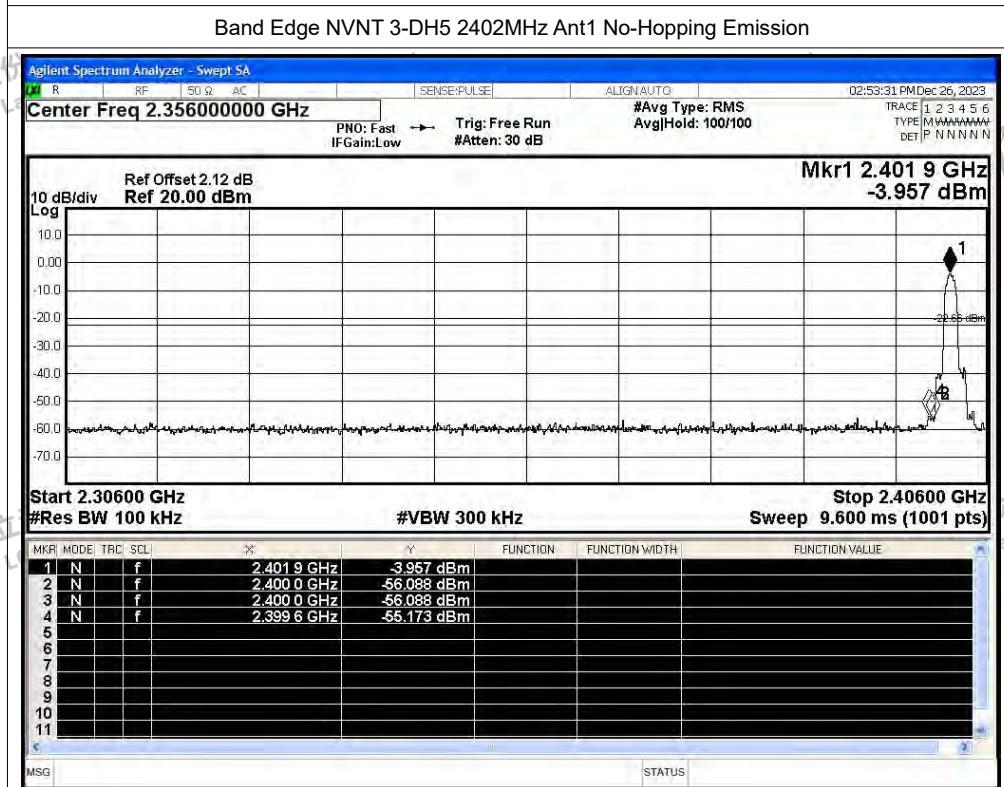
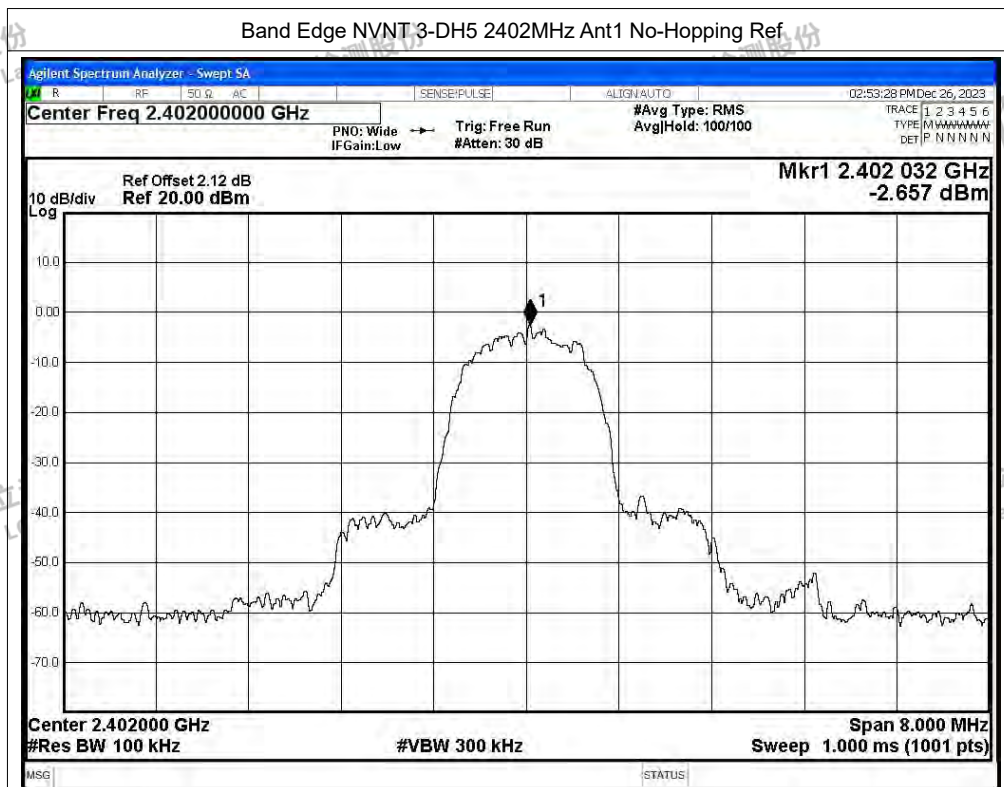


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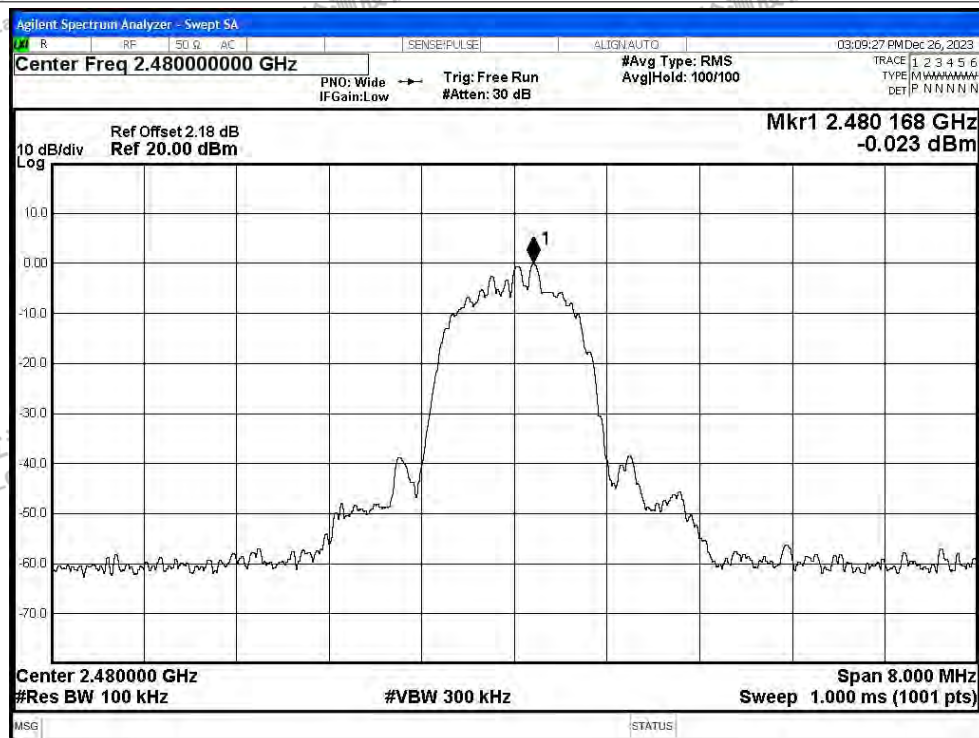
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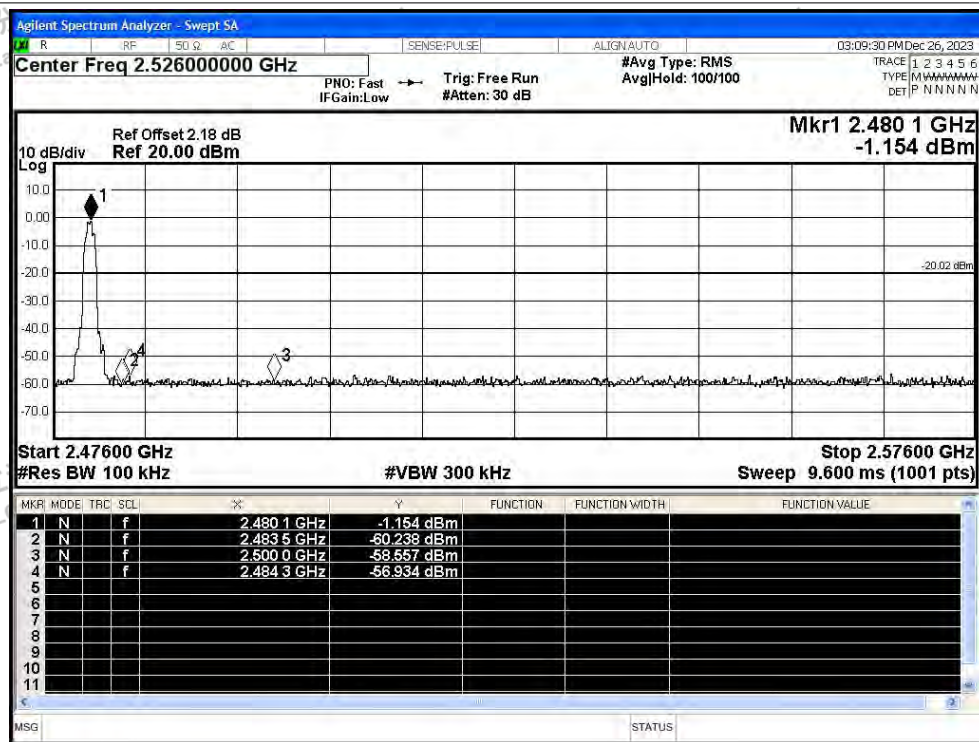




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-56.29	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.47	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.69	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.46	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.82	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.54	-20	Pass



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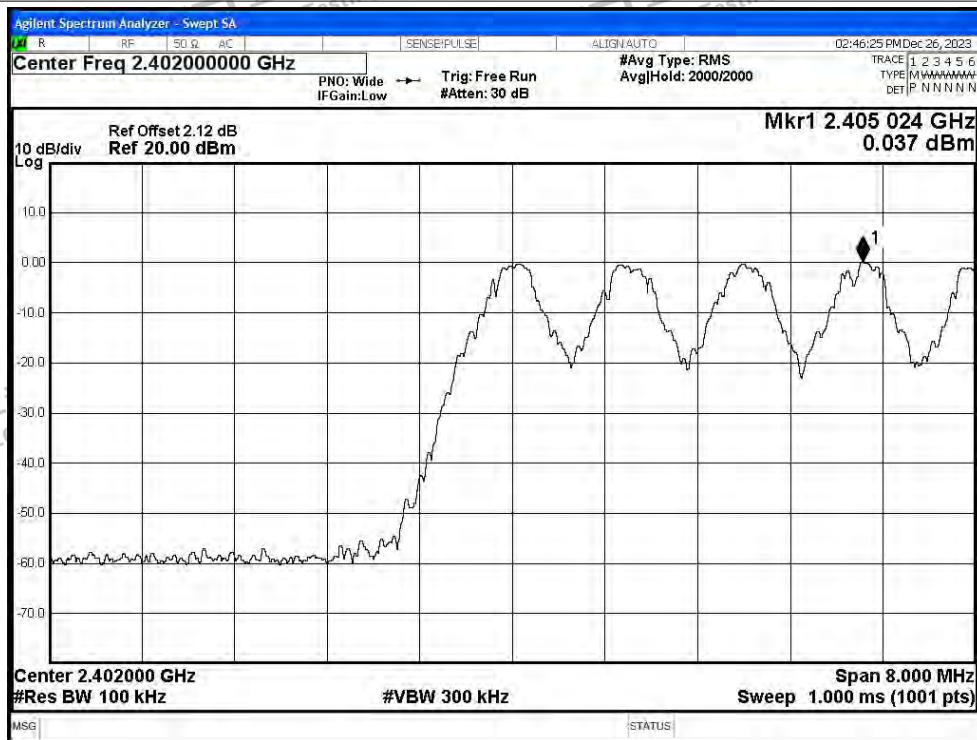
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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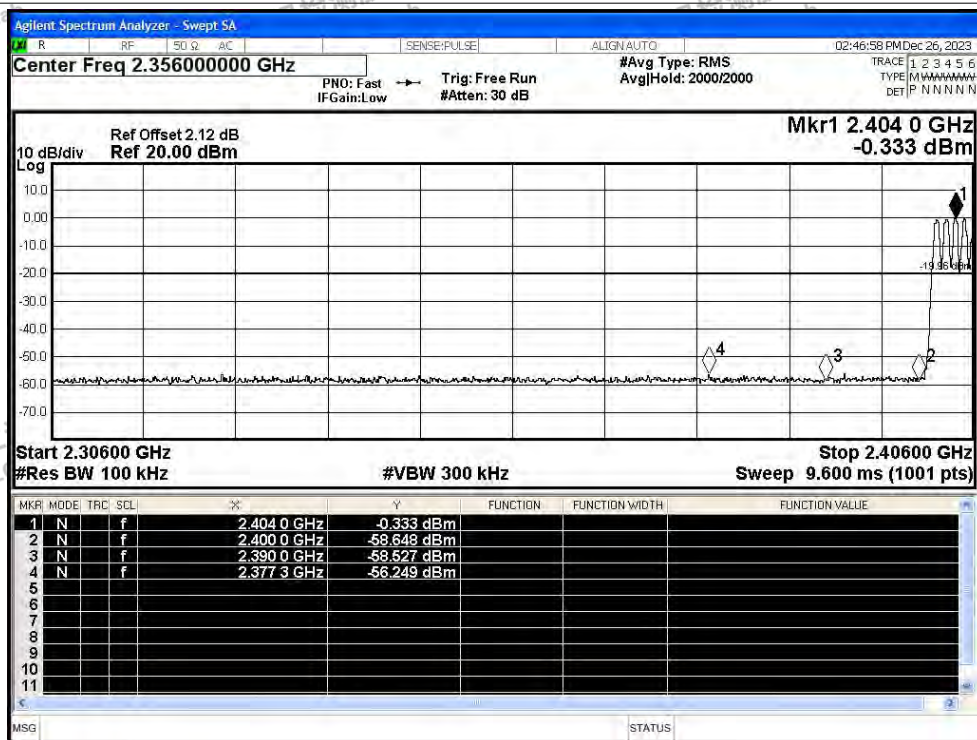


Test Graphs

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



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

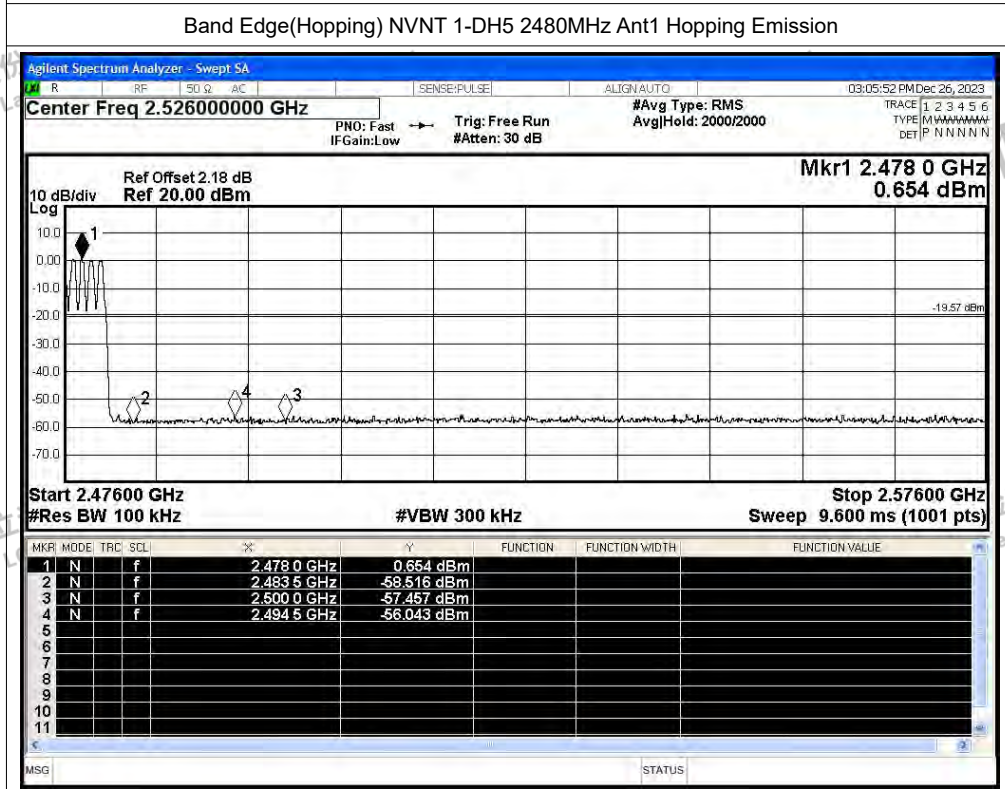
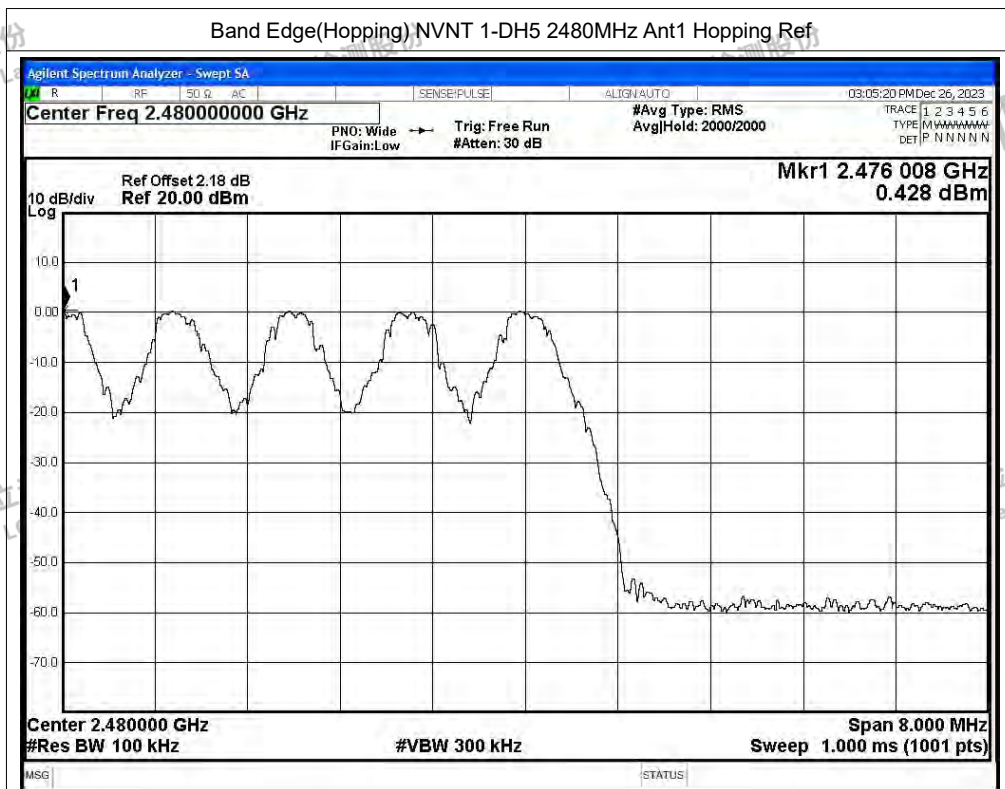


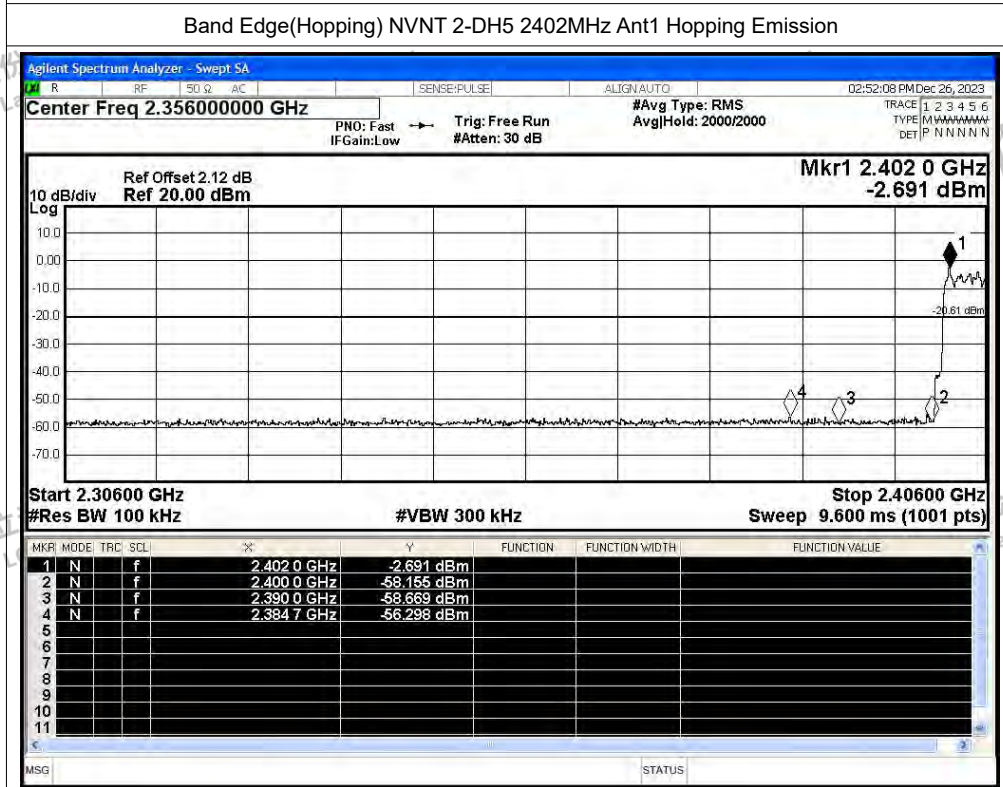
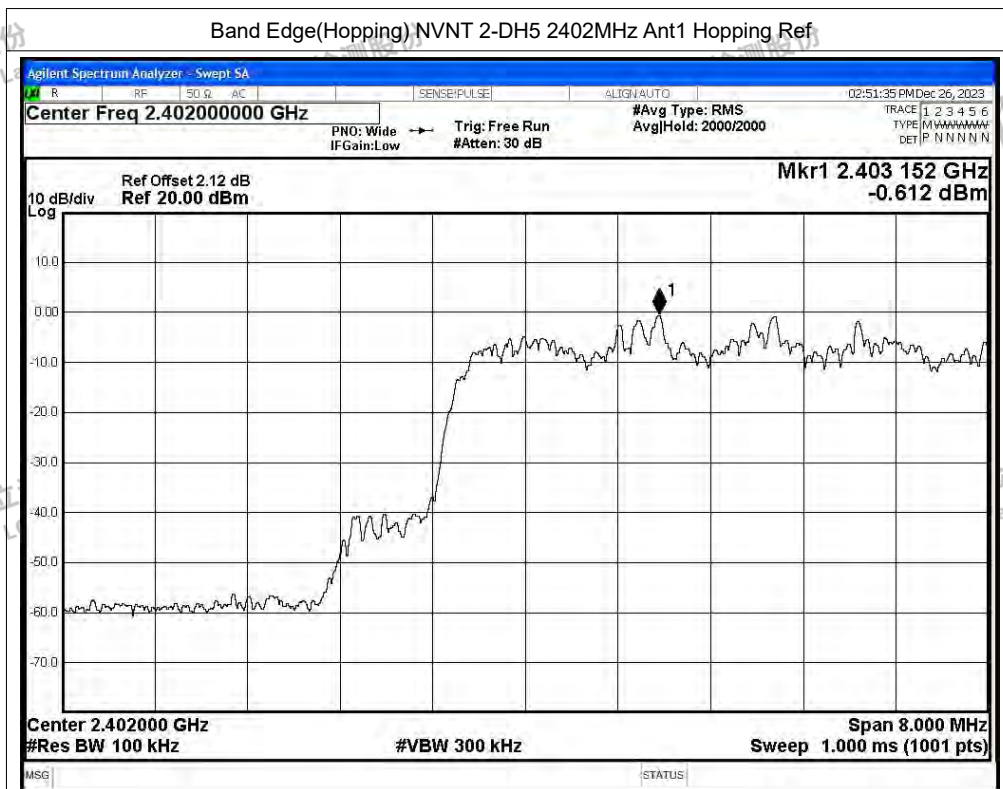
Shenzhen LCS Compliance Testing Laboratory Ltd.

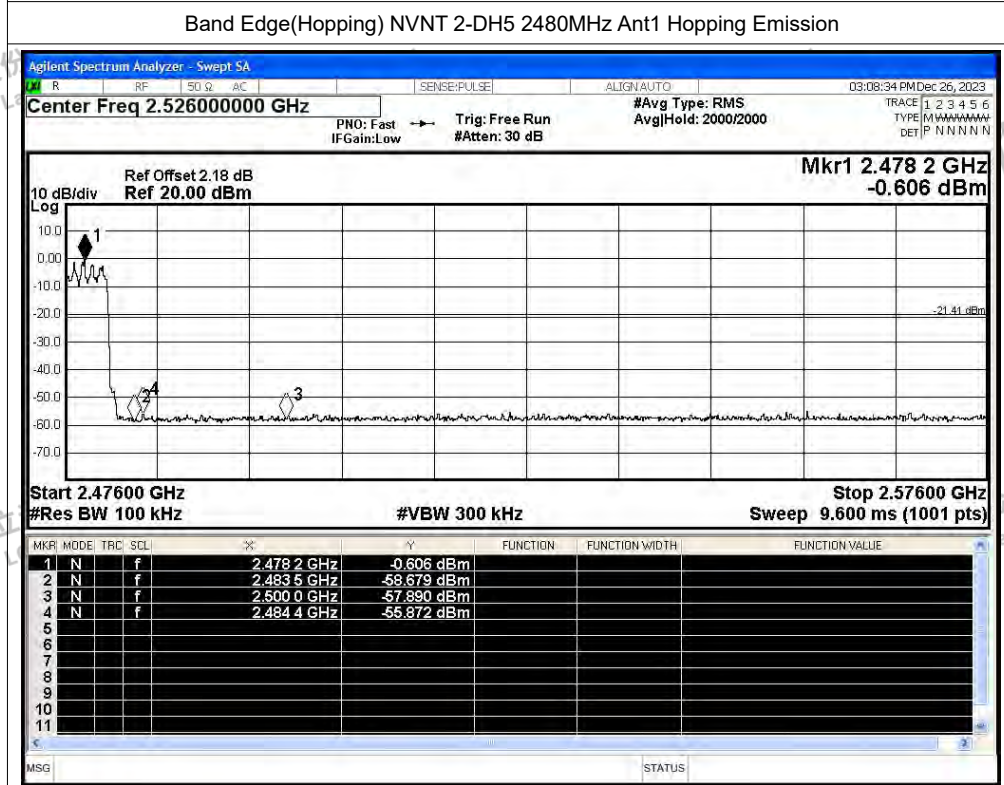
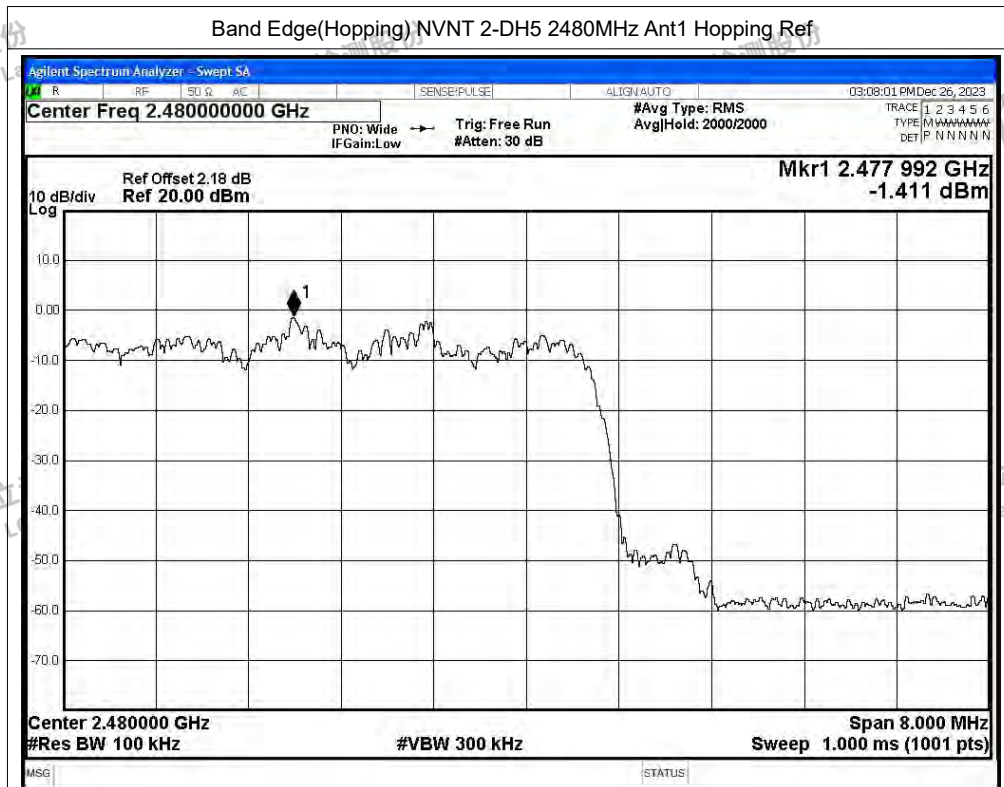
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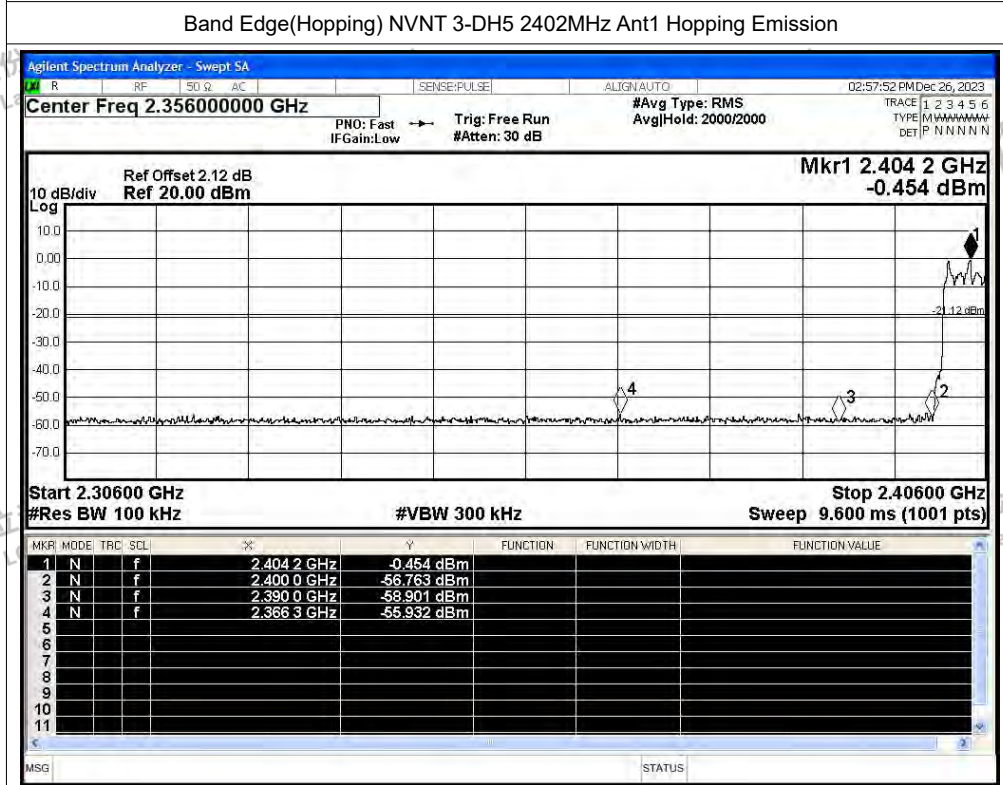
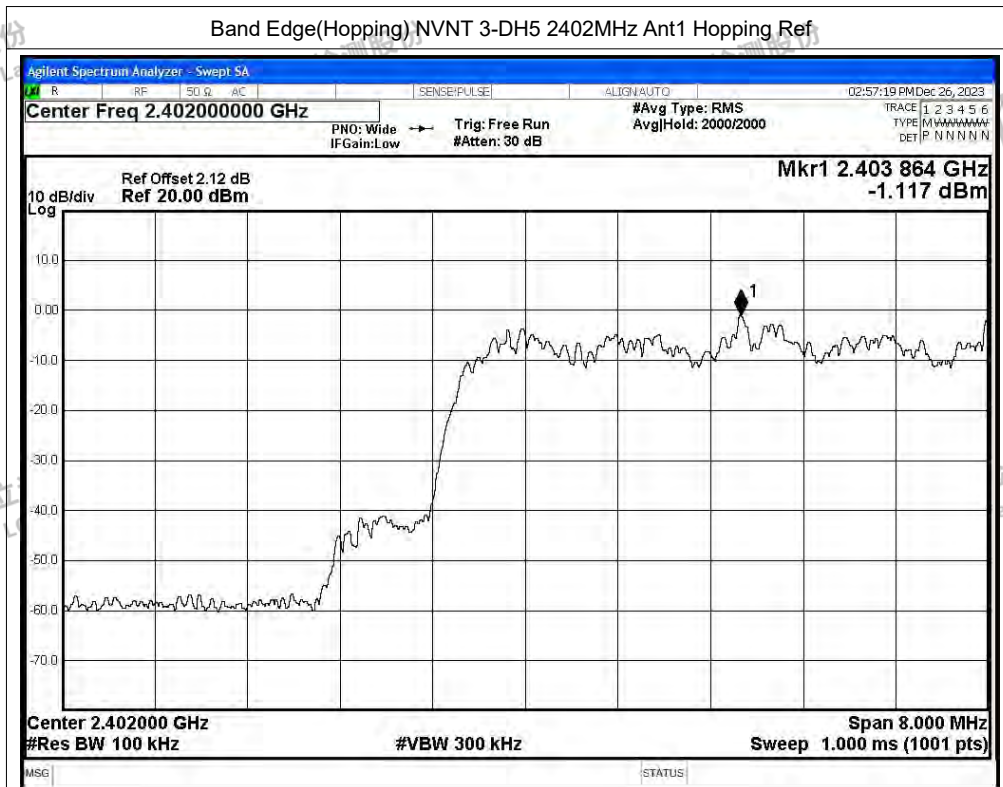


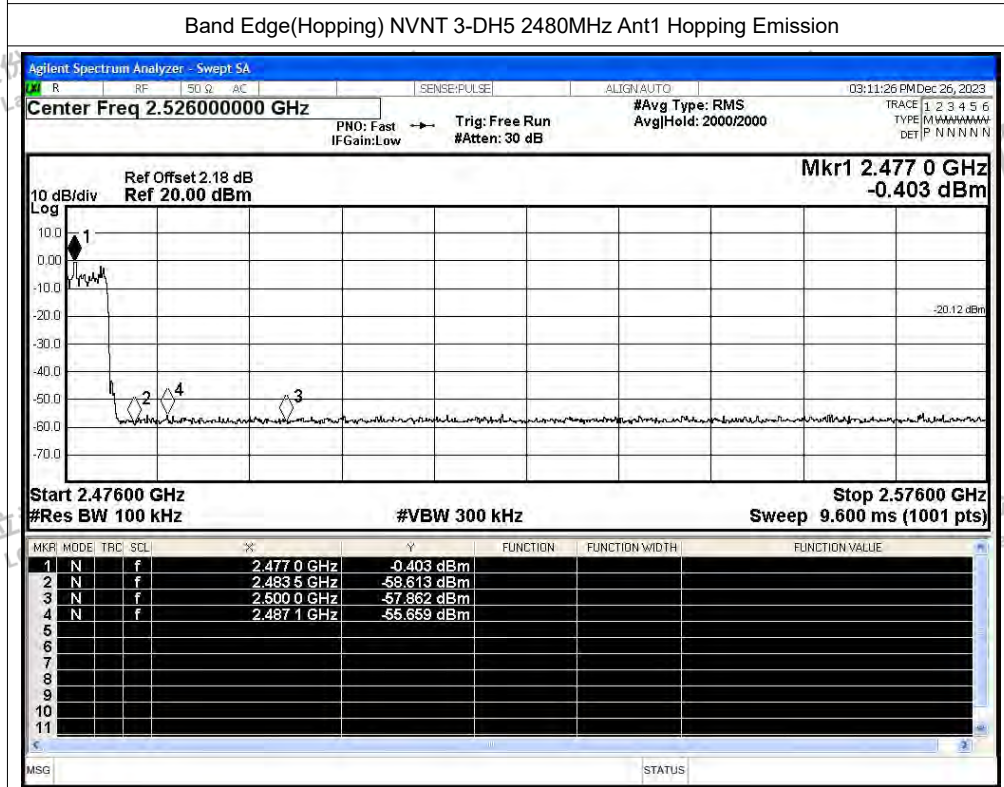
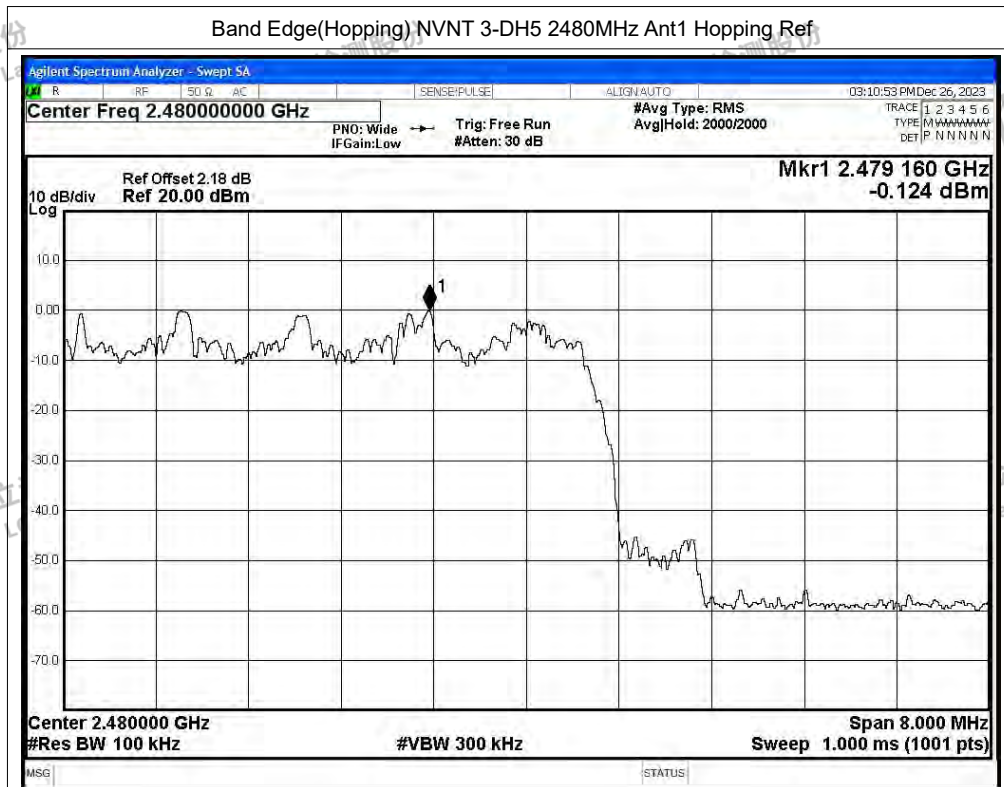
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A.8 Conducted RF Spurious Emission

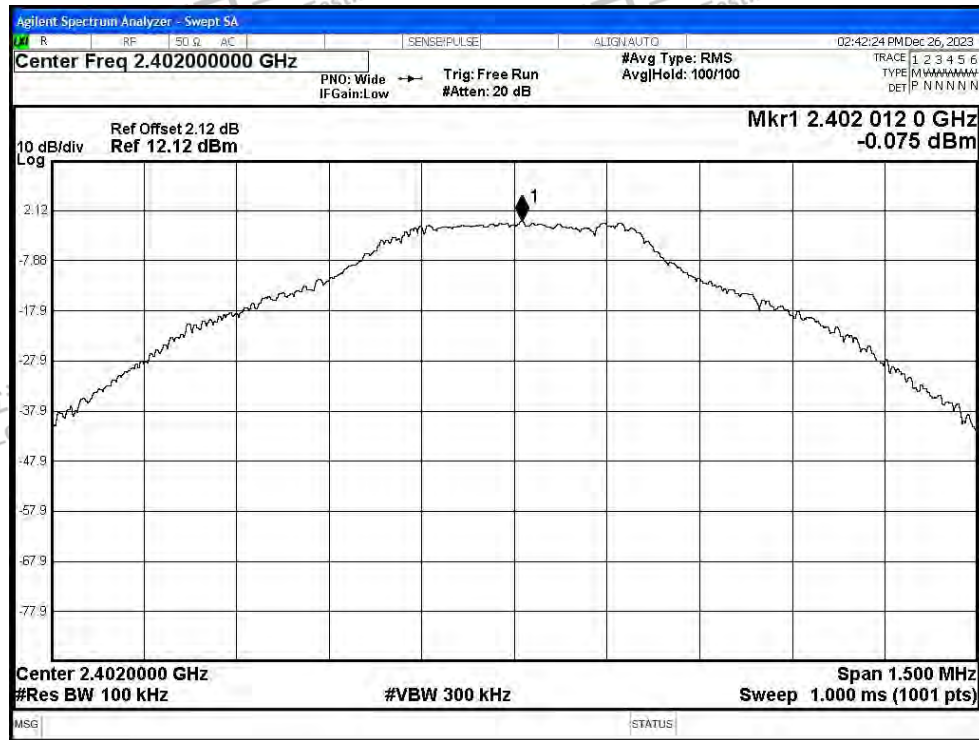
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.88	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.53	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.84	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.09	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.38	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.79	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.79	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.3	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.61	-20	Pass



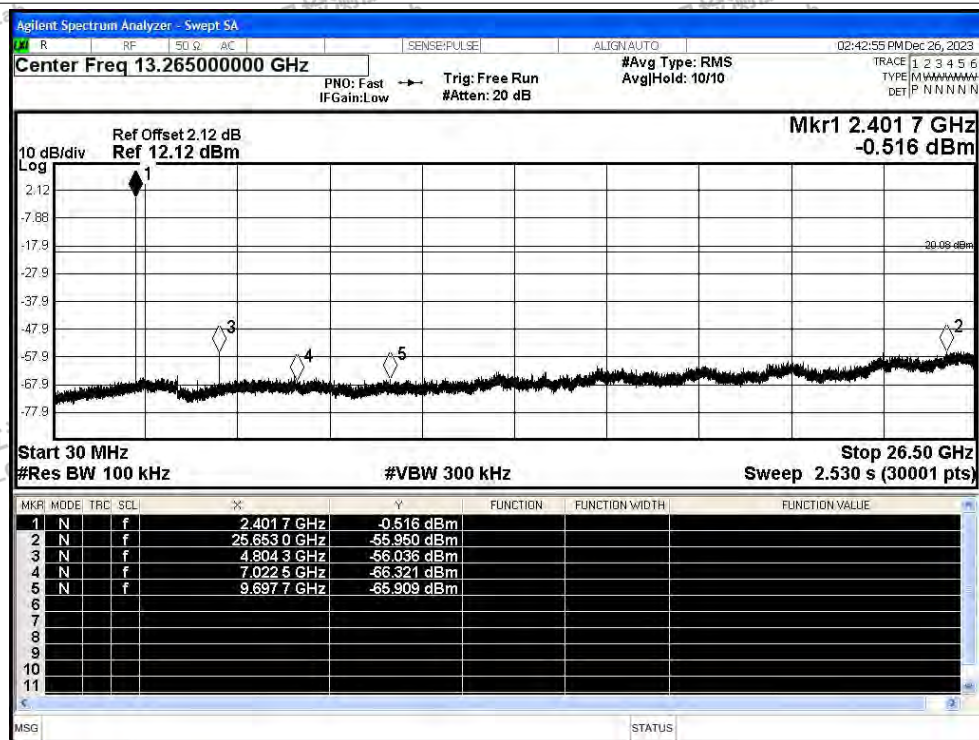


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

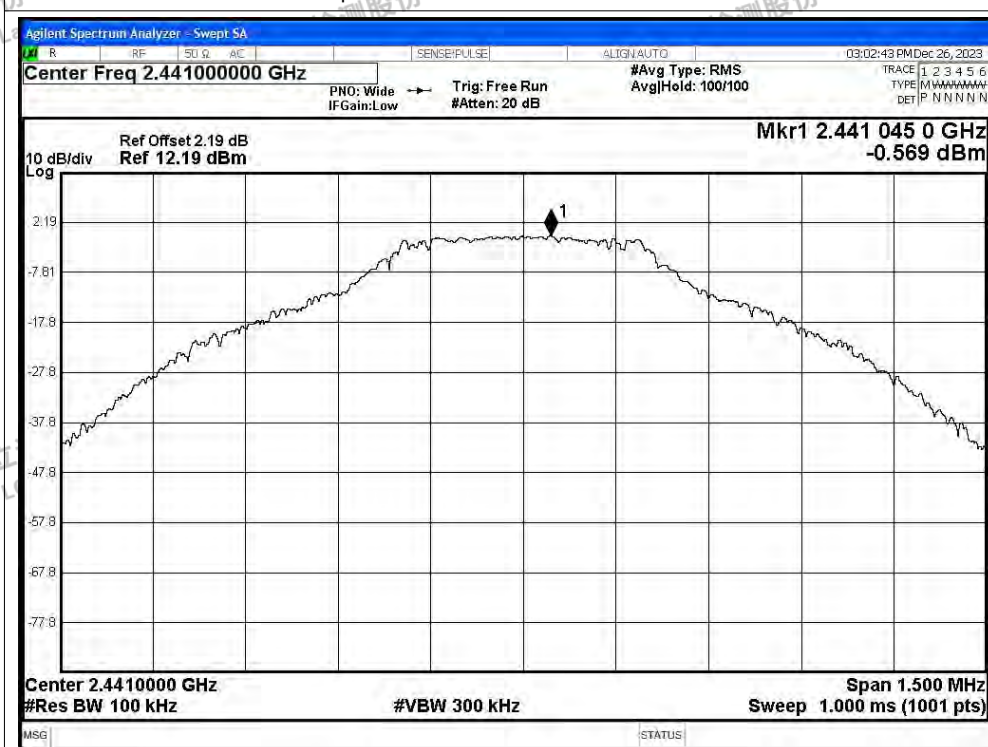
Add: 101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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

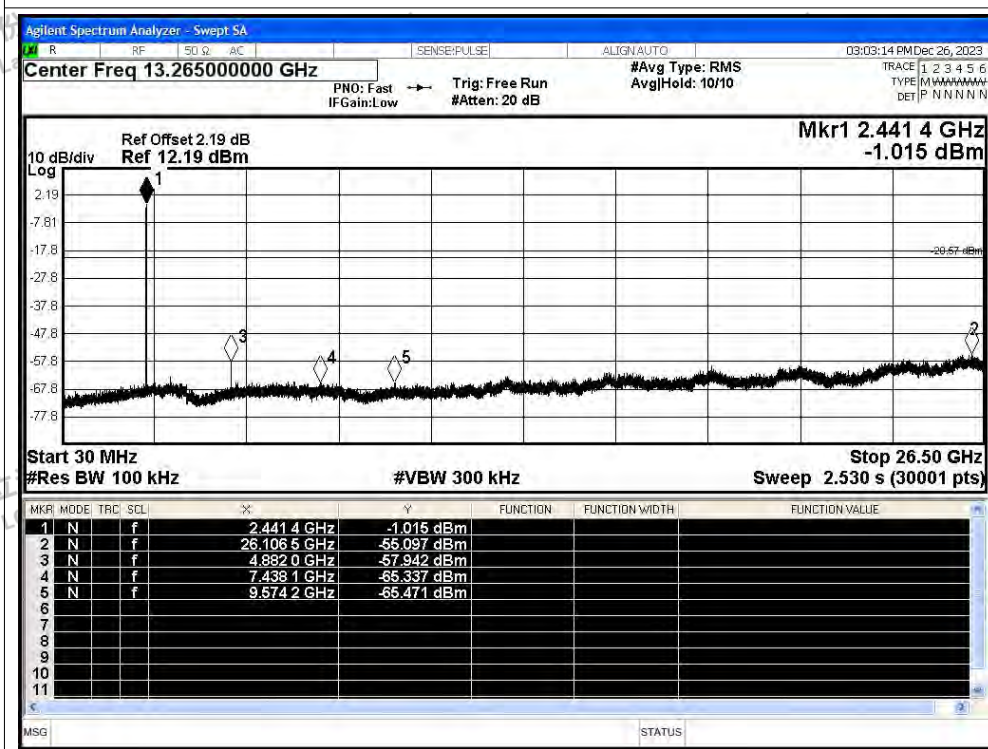
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

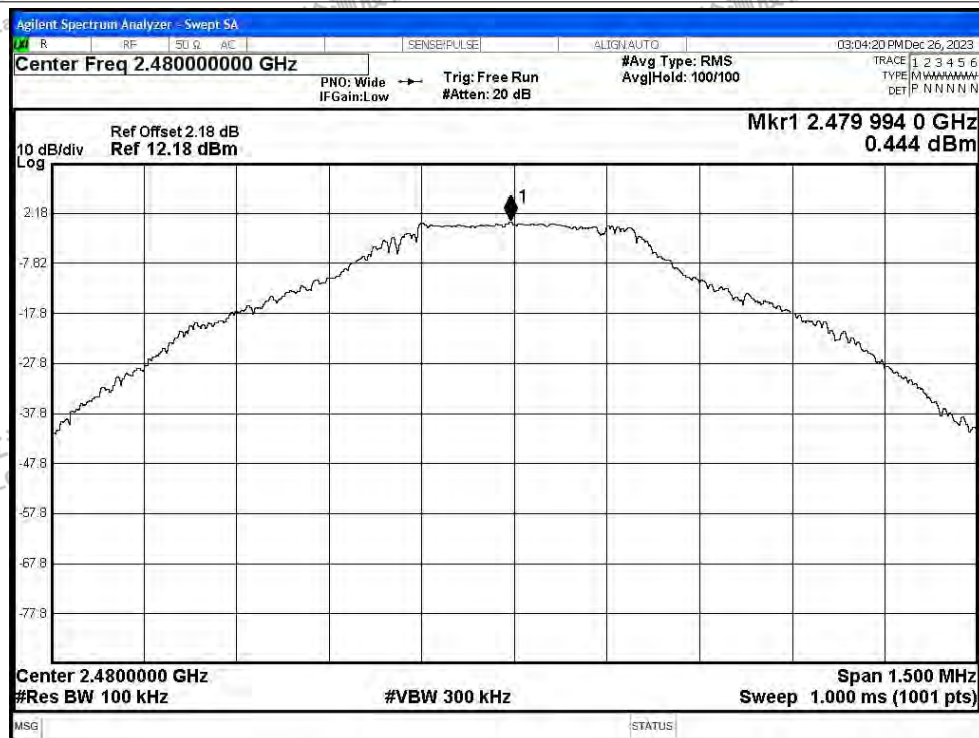
Add: 101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.

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

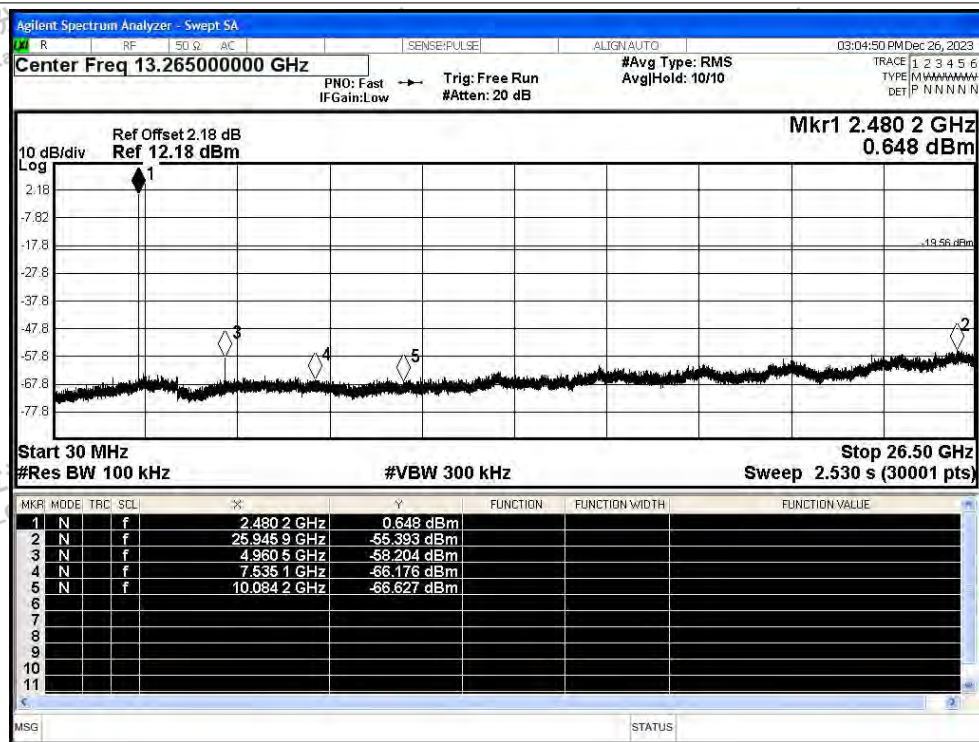
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

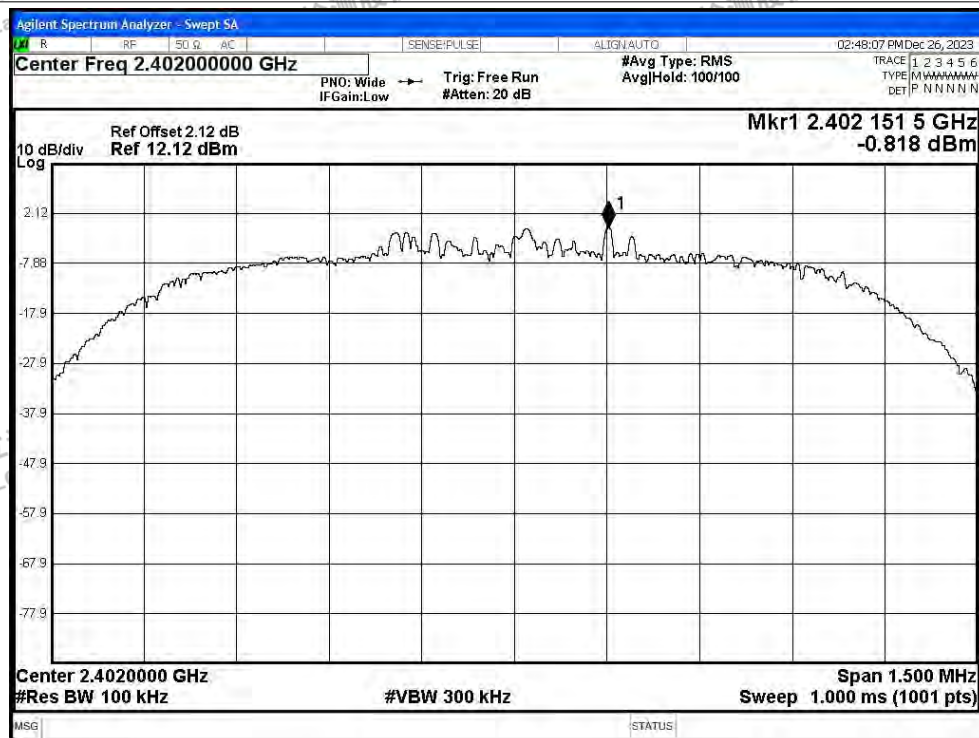
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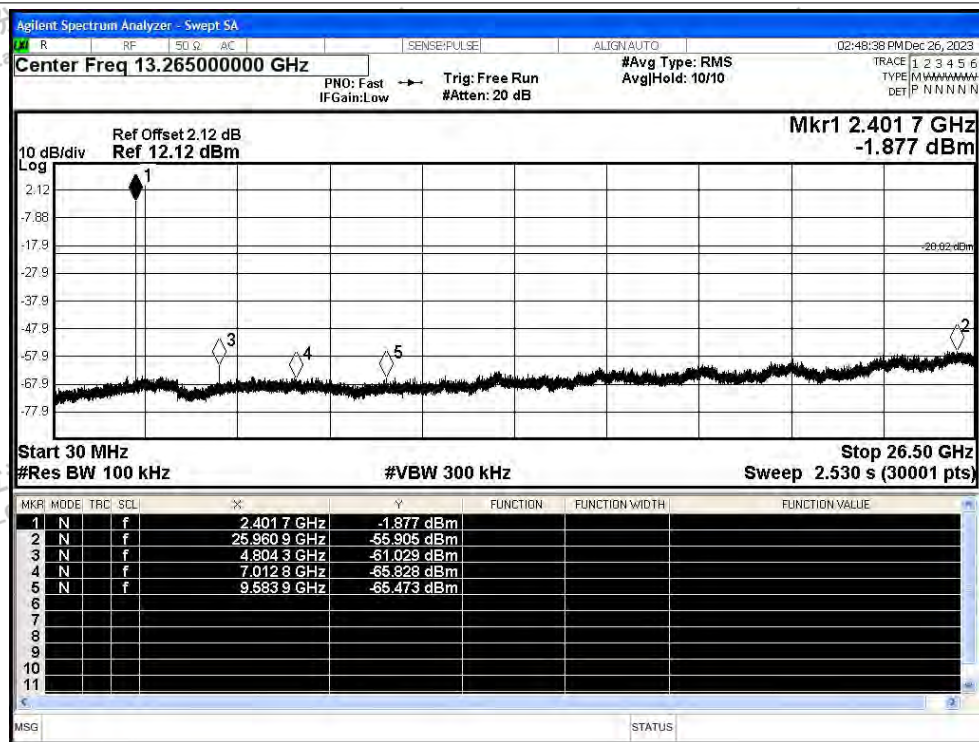
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

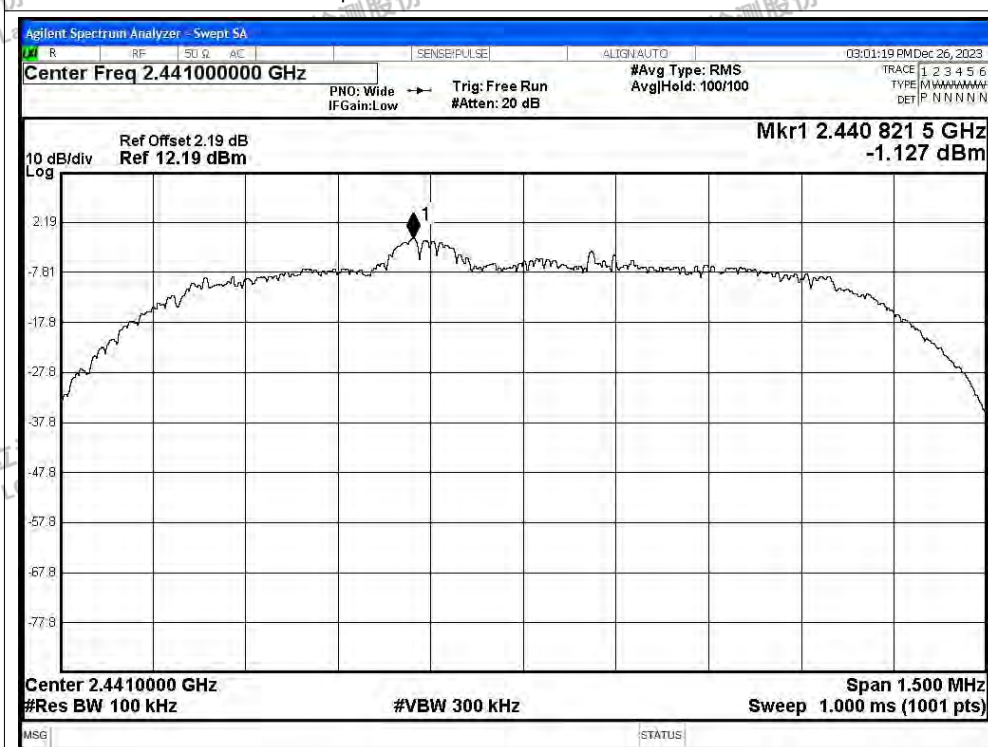
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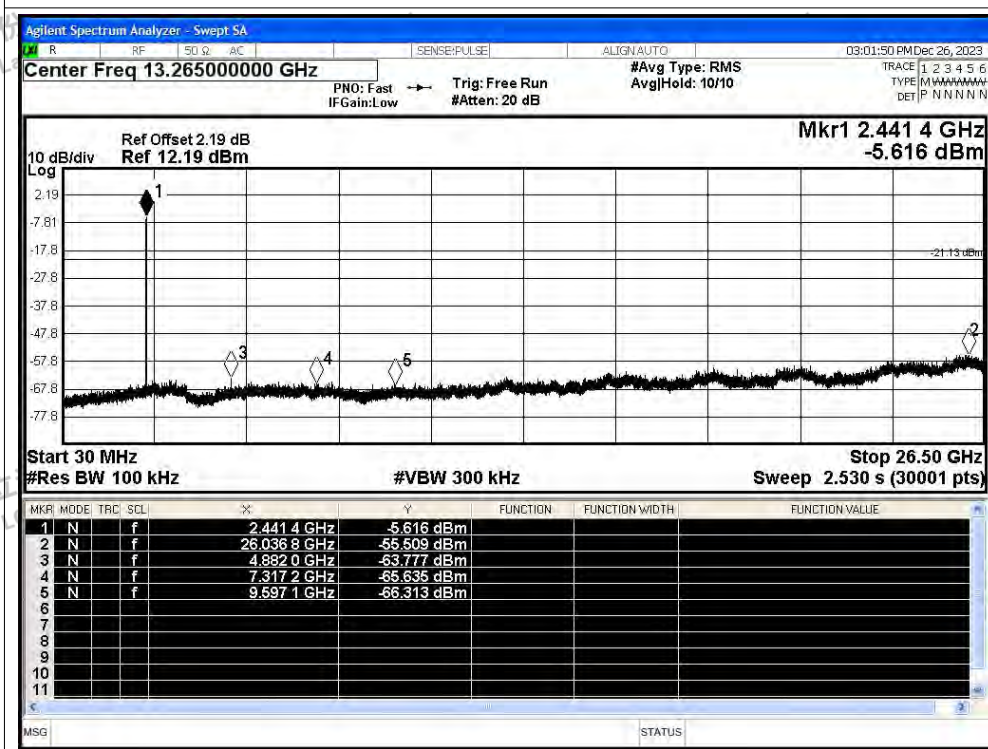
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

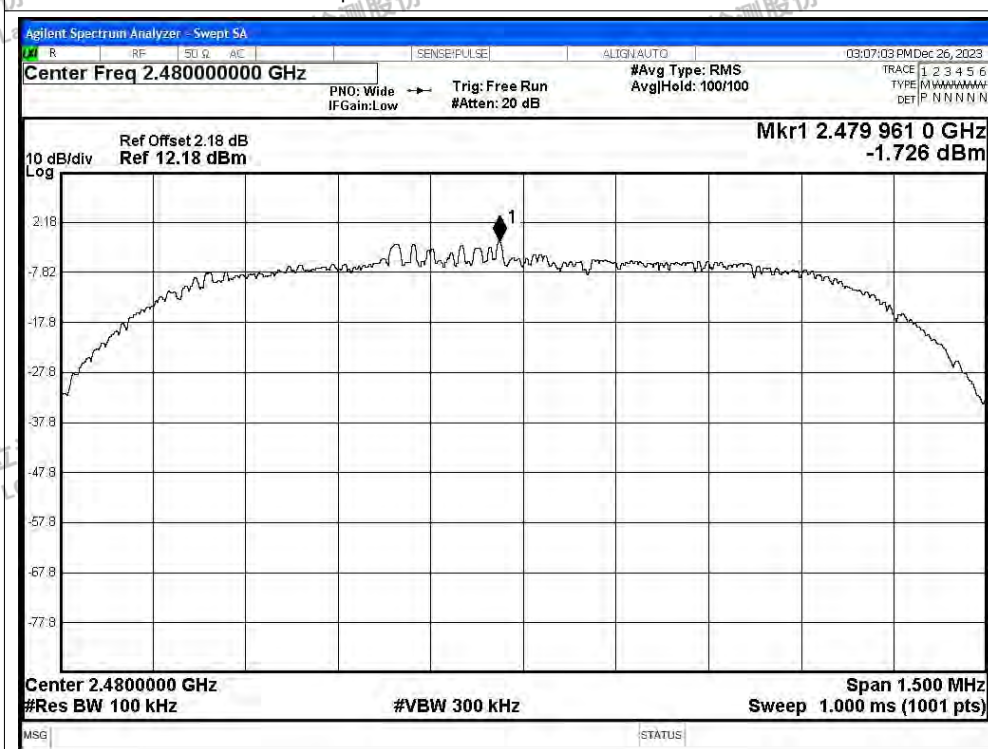
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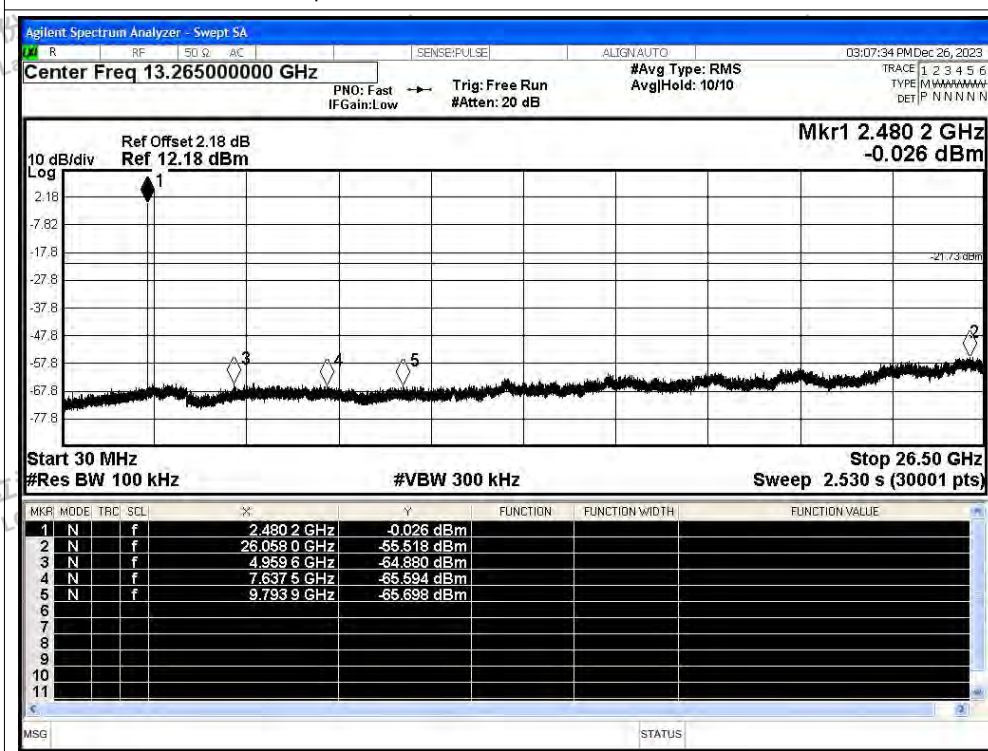
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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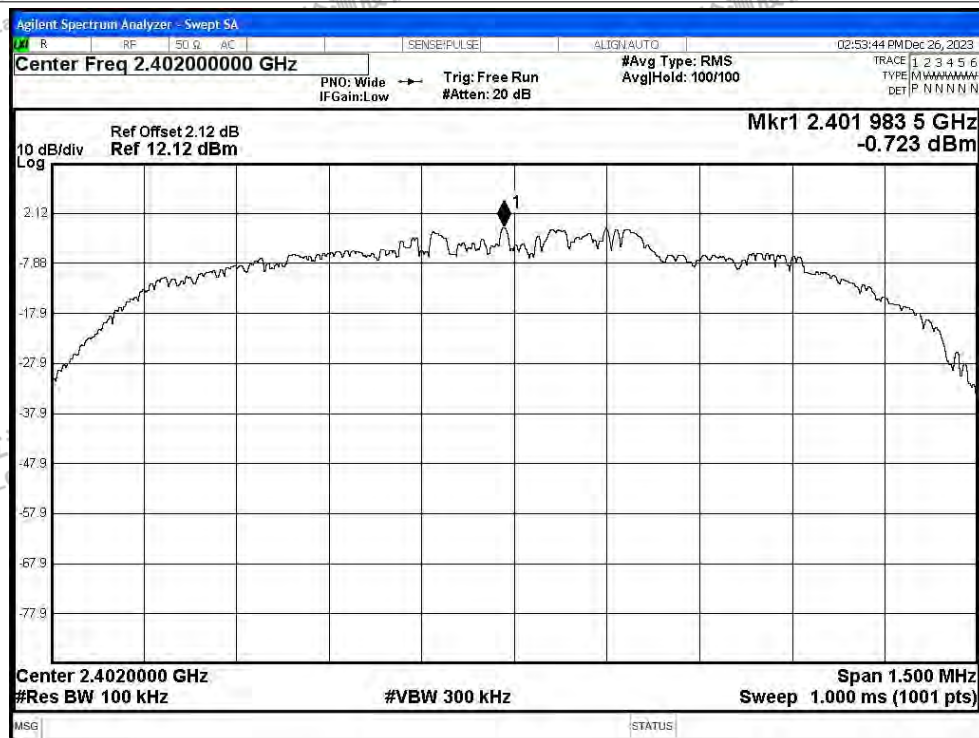
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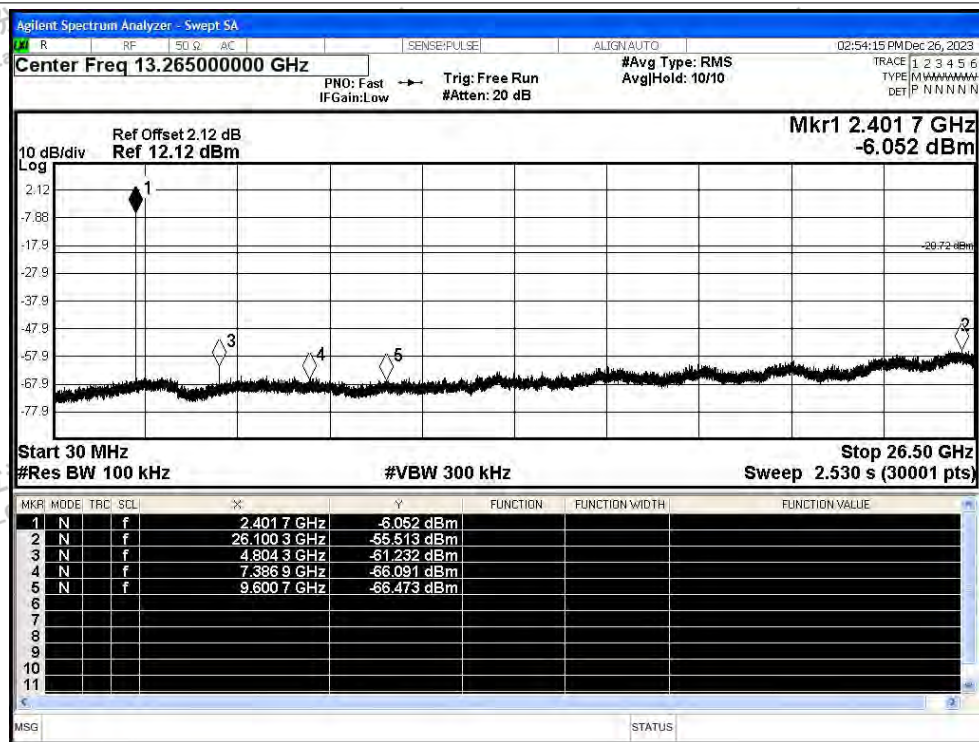
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



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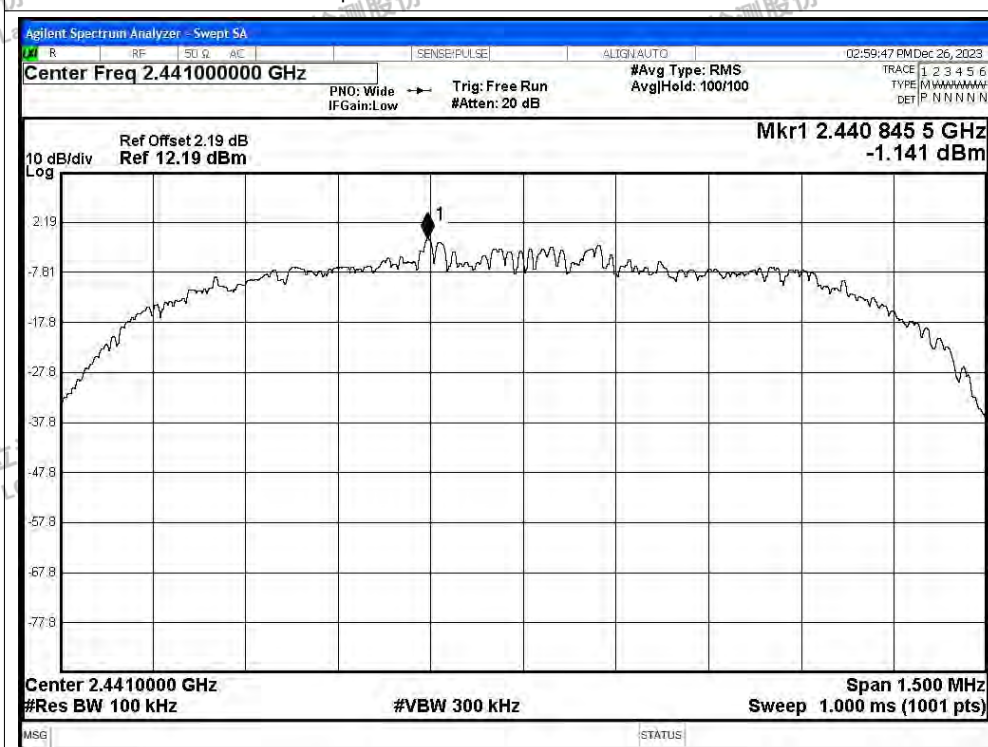
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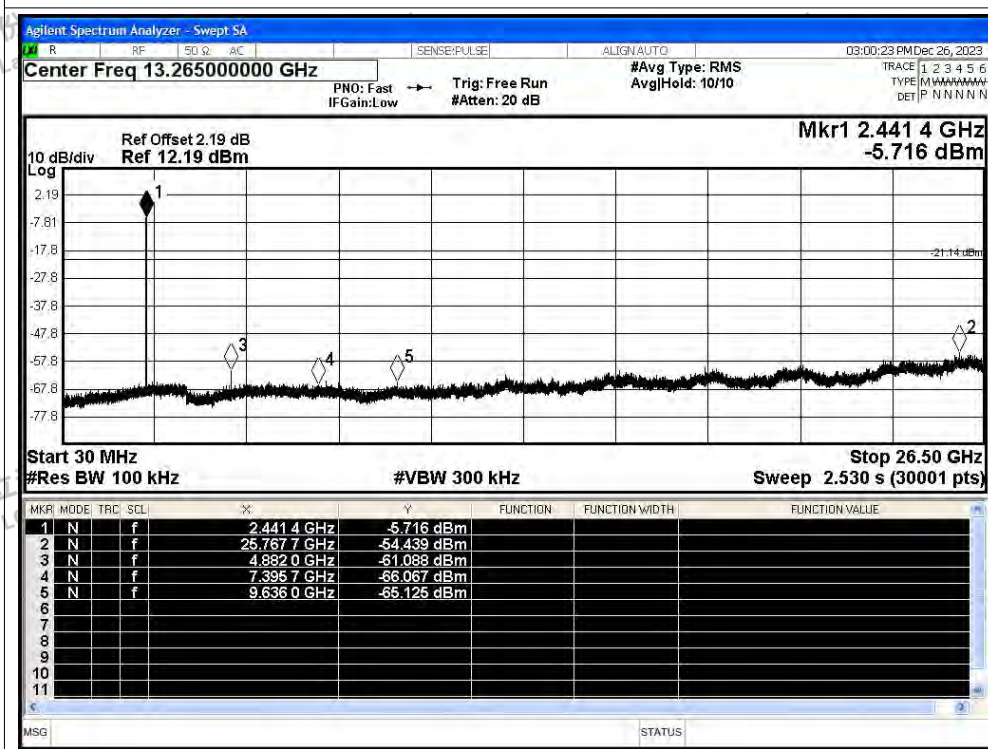
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



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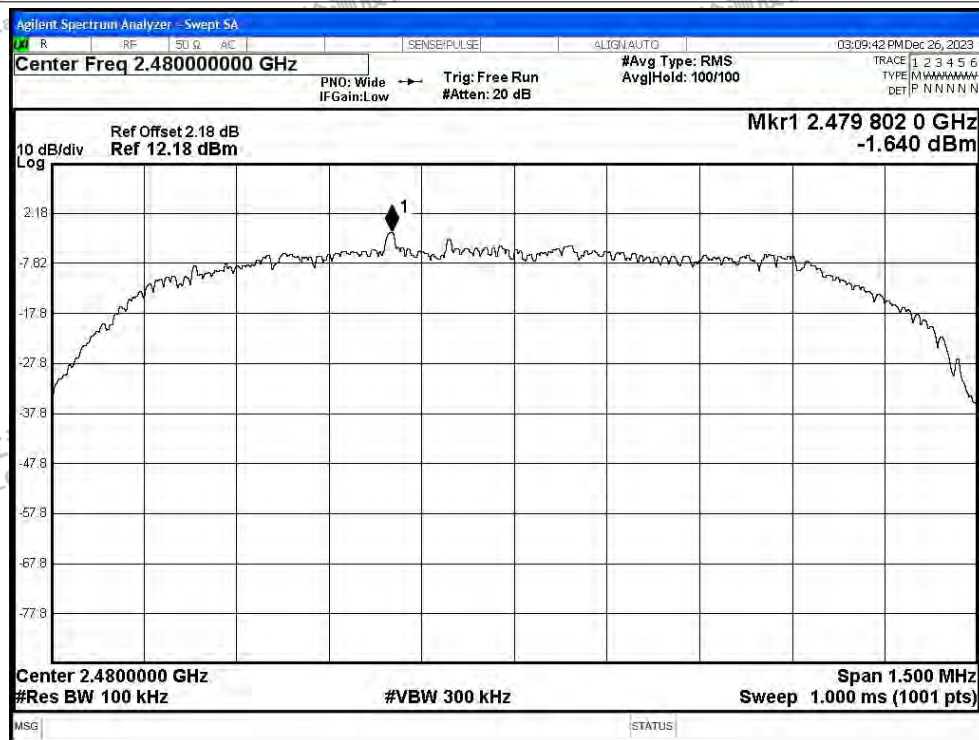
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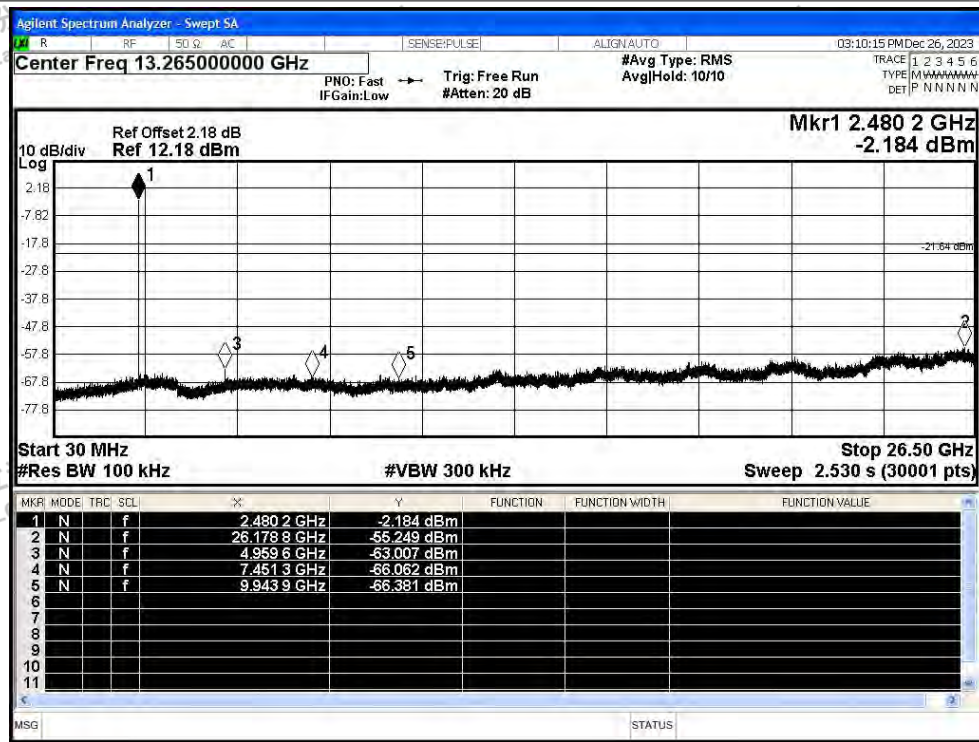
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.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)
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.28	2.5	-	47.48	Peak	74
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.46	2.5	1.14	40.44	Average	54
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.512	-47.31	2.5	-	50.45	Peak	74
NVNT	1-DH5	2402	Ant1	No-Hopping	2357.712	-57.67	2.5	1.14	41.23	Average	54
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-47.56	2.5	-	50.20	Peak	74
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.69	2.5	1.14	40.21	Average	54
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.65	2.5	-	48.11	Peak	74
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.42	2.5	1.14	40.48	Average	54
NVNT	1-DH5	2480	Ant1	No-Hopping	2488.264	-46.74	2.5	-	51.02	Peak	74
NVNT	1-DH5	2480	Ant1	No-Hopping	2488.888	-56.94	2.5	1.14	41.96	Average	54
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.4	2.5	-	46.36	Peak	74
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.79	2.5	1.14	41.11	Average	54
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.35	2.5	-	47.41	Peak	74
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.81	2.5	1.14	40.09	Average	54
NVNT	2-DH5	2402	Ant1	No-Hopping	2381.808	-47.04	2.5	-	50.72	Peak	74
NVNT	2-DH5	2402	Ant1	No-Hopping	2378.544	-57.76	2.5	1.14	41.14	Average	54
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.11	2.5	-	46.65	Peak	74
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.08	2.5	1.14	40.82	Average	54
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.74	2.5	-	48.02	Peak	74
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.01	2.5	1.14	40.89	Average	54
NVNT	2-DH5	2480	Ant1	No-Hopping	2489.44	-46.69	2.5	-	51.07	Peak	74
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.424	-57.13	2.5	1.14	41.77	Average	54
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.34	2.5	-	46.42	Peak	74
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.67	2.5	1.14	41.23	Average	54
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.04	2.5	-	46.72	Peak	74
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-59.25	2.5	1.13	39.64	Average	54
NVNT	3-DH5	2402	Ant1	No-Hopping	2386.512	-47.78	2.5	-	49.98	Peak	74
NVNT	3-DH5	2402	Ant1	No-Hopping	2373.936	-57.52	2.5	1.13	41.37	Average	54
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.14	2.5	-	47.62	Peak	74
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.97	2.5	1.13	40.92	Average	54
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.7	2.5	-	48.06	Peak	74
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.77	2.5	1.13	41.12	Average	54
NVNT	3-DH5	2480	Ant1	No-Hopping	2495.656	-46.53	2.5	-	51.23	Peak	74
NVNT	3-DH5	2480	Ant1	No-Hopping	2498.44	-57.18	2.5	1.13	41.71	Average	54
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.04	2.5	-	47.72	Peak	74
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.73	2.5	1.13	41.16	Average	54



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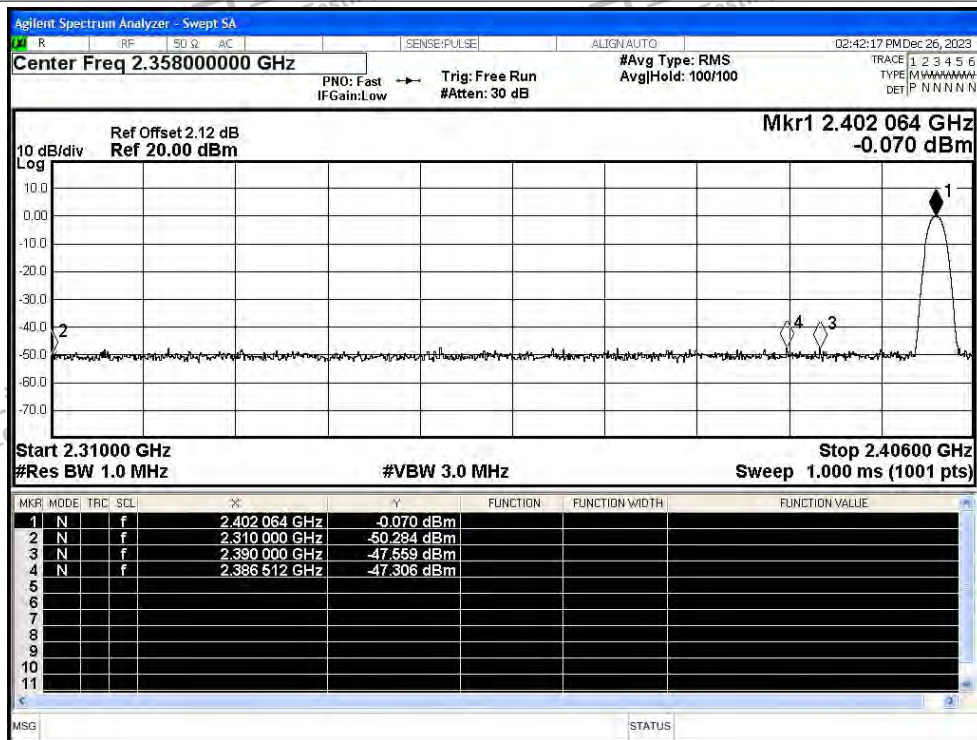
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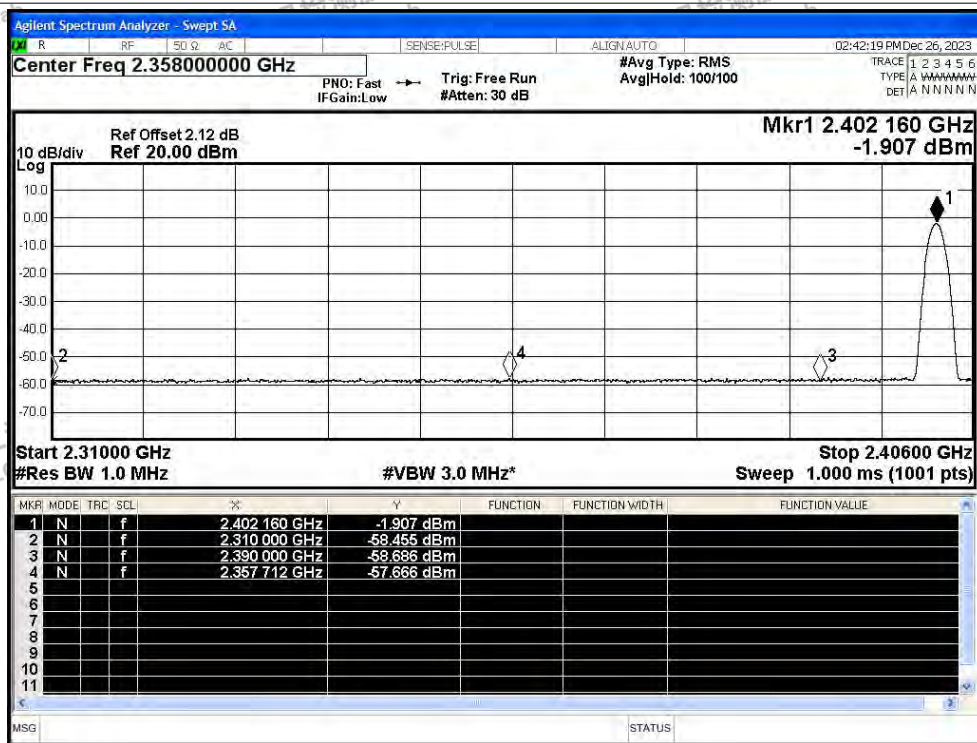


Test Graphs

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



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

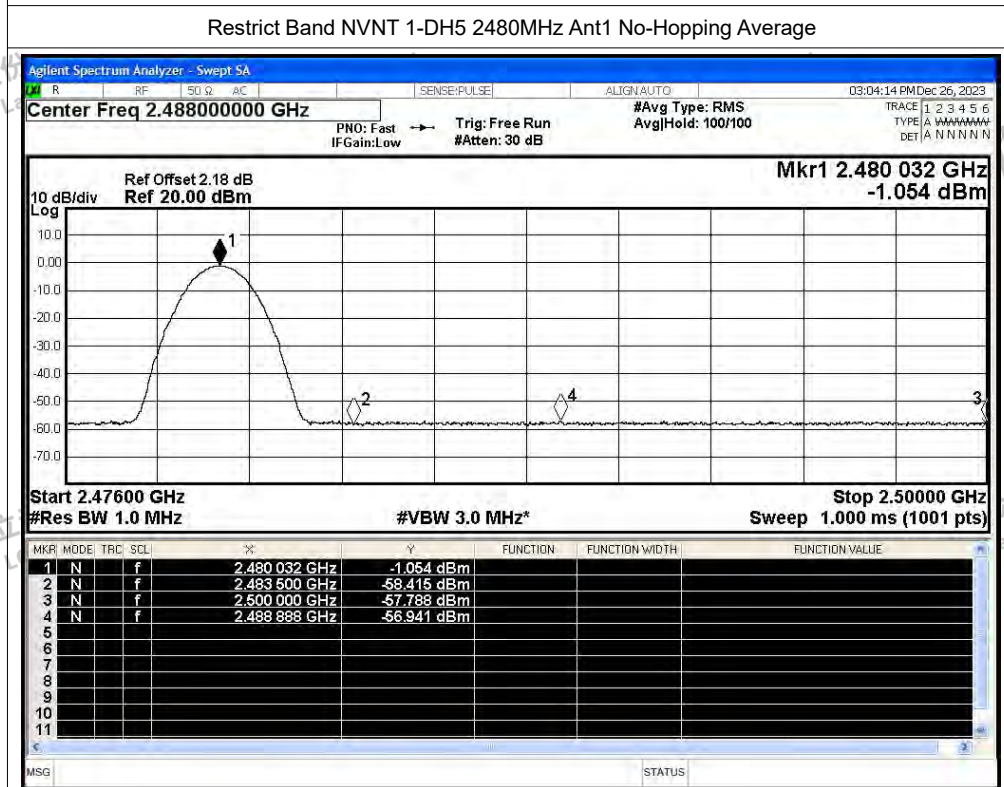
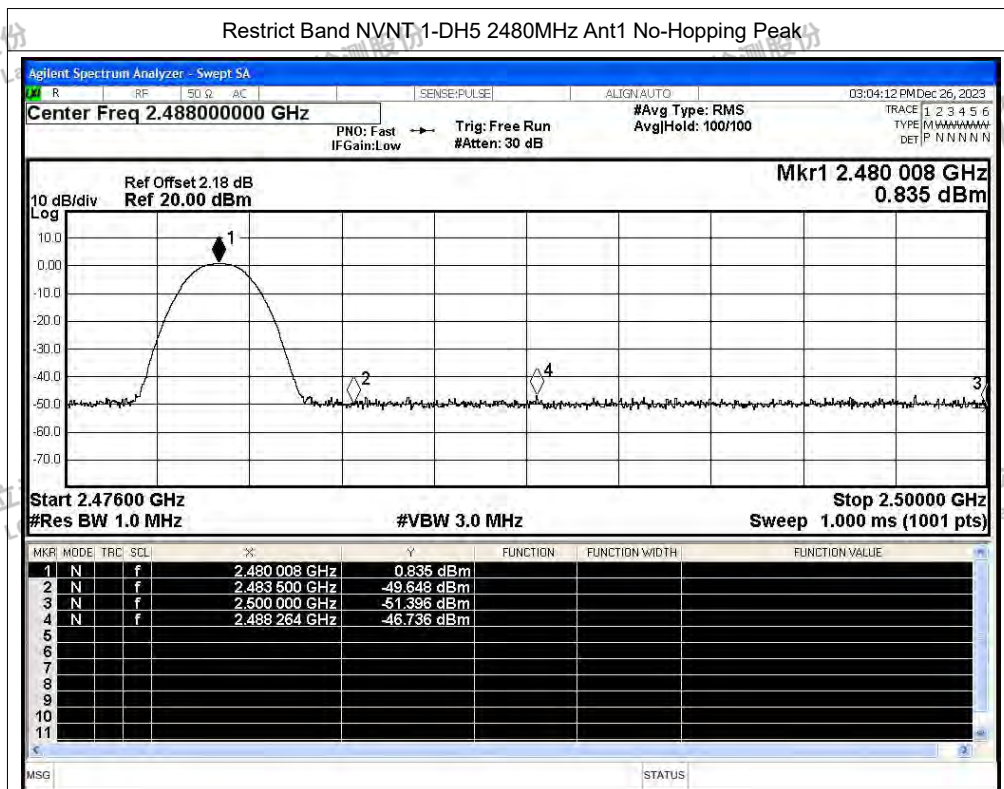


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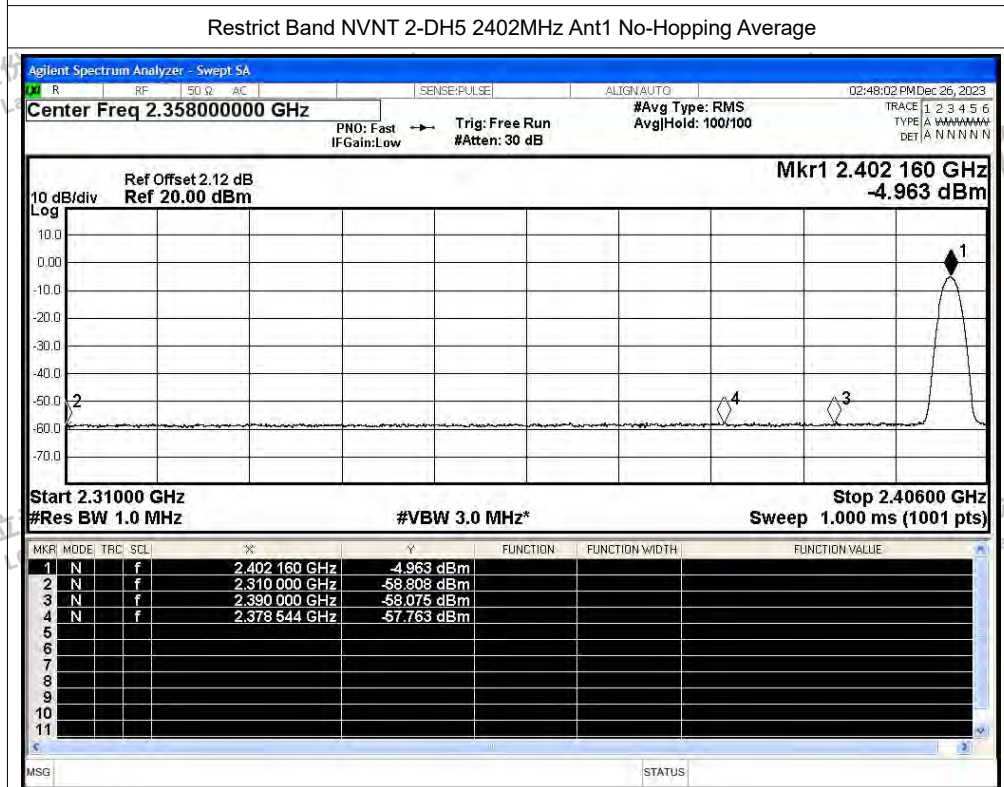
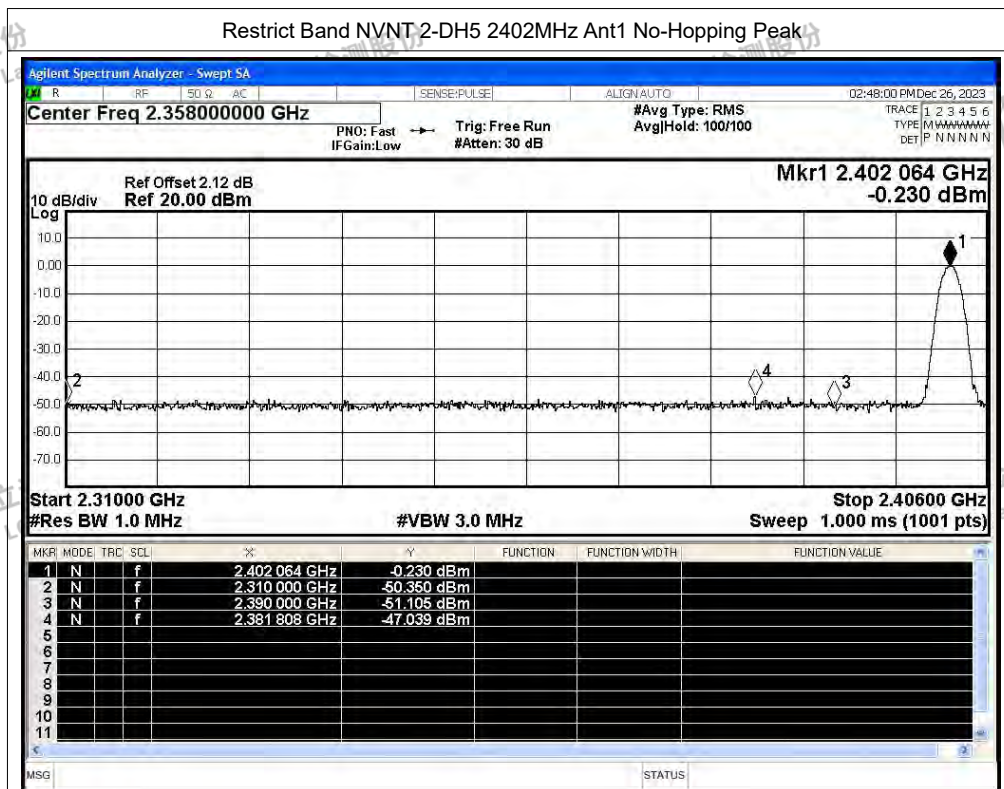


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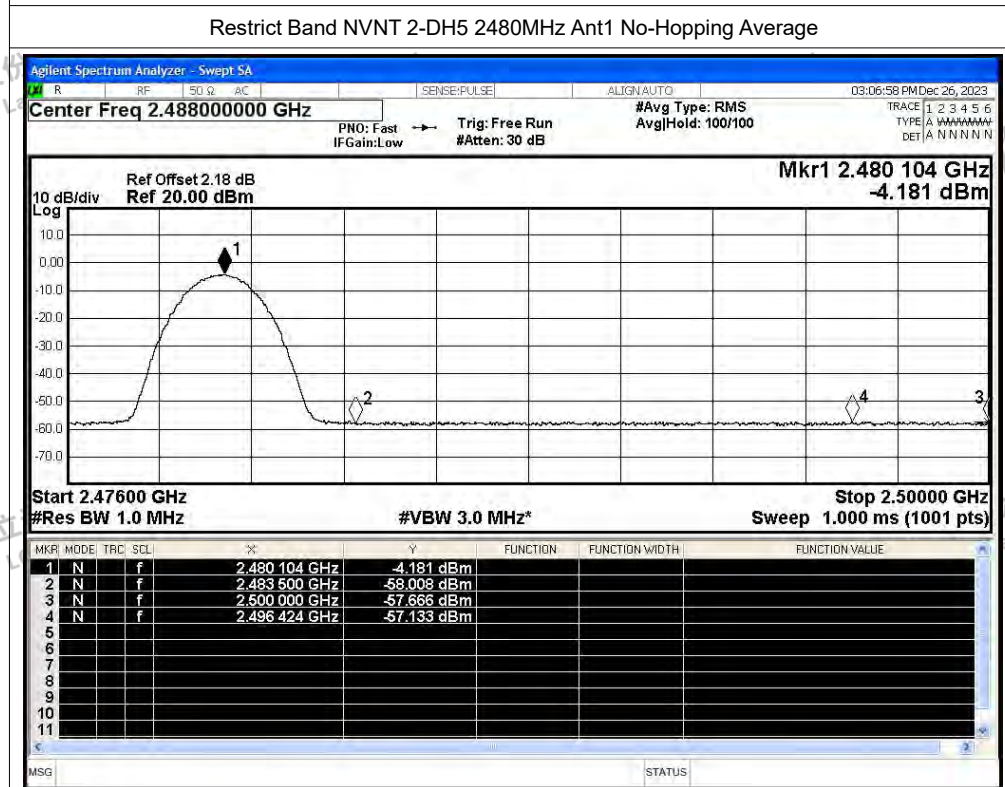
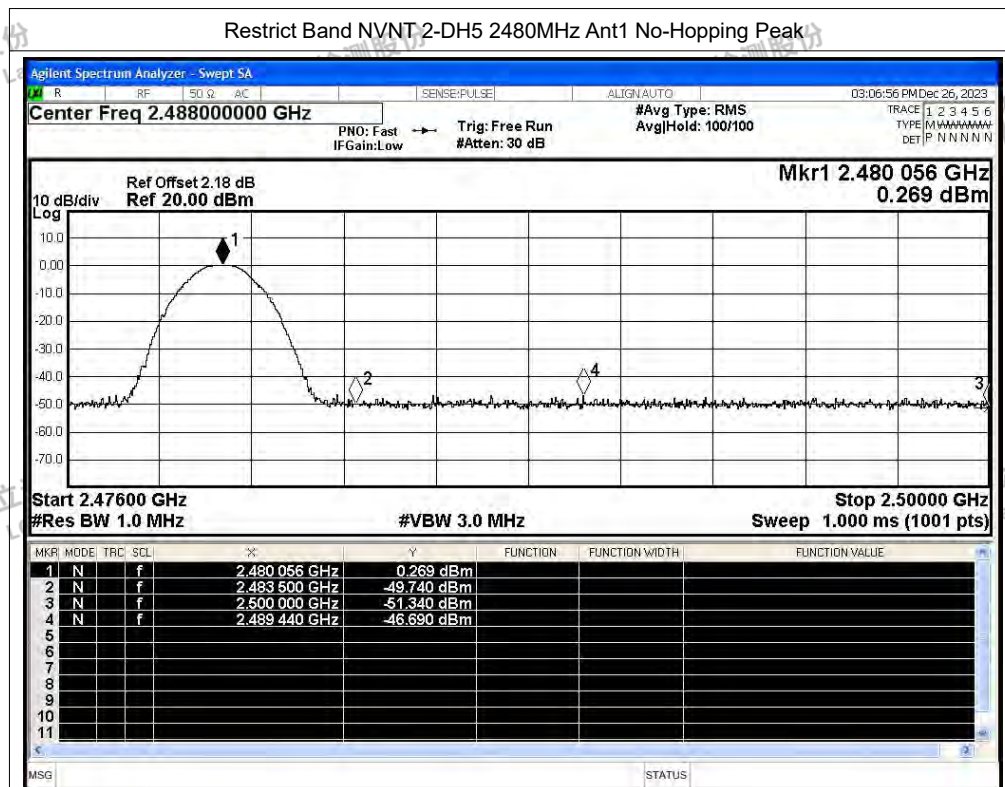


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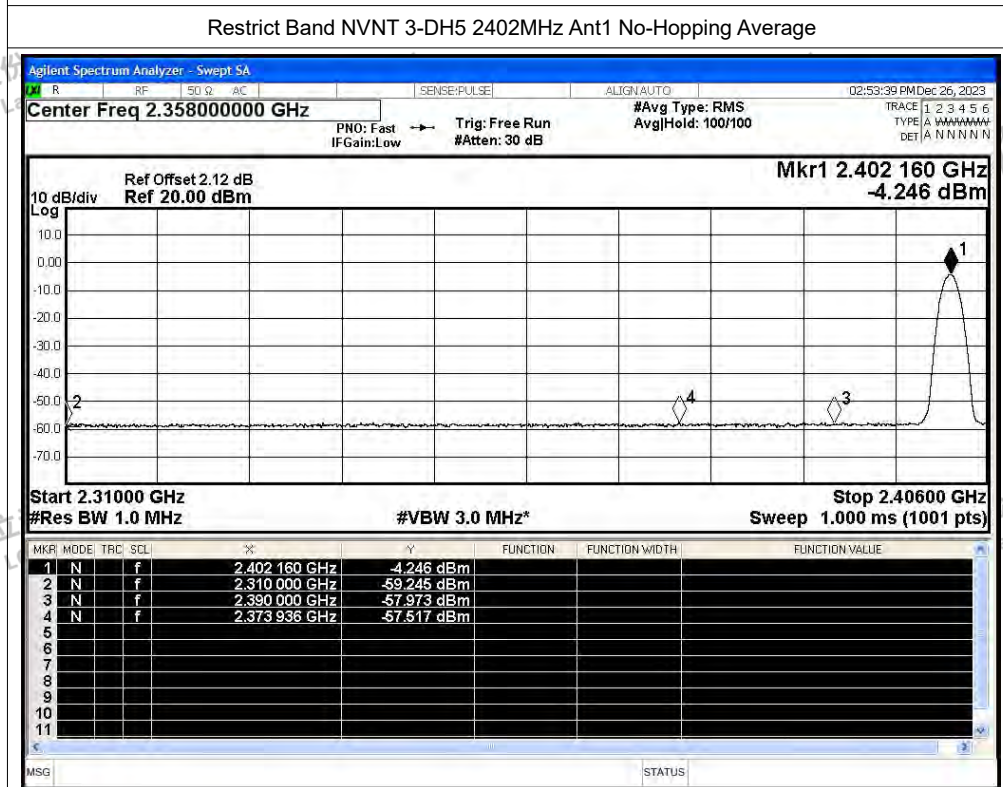
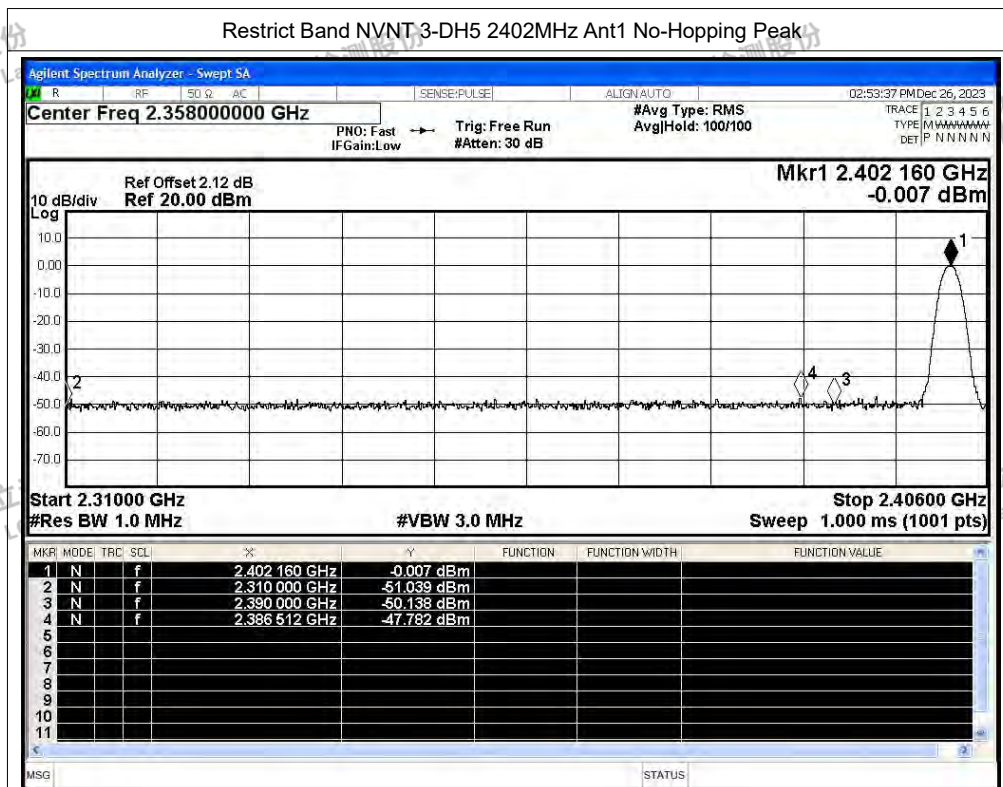


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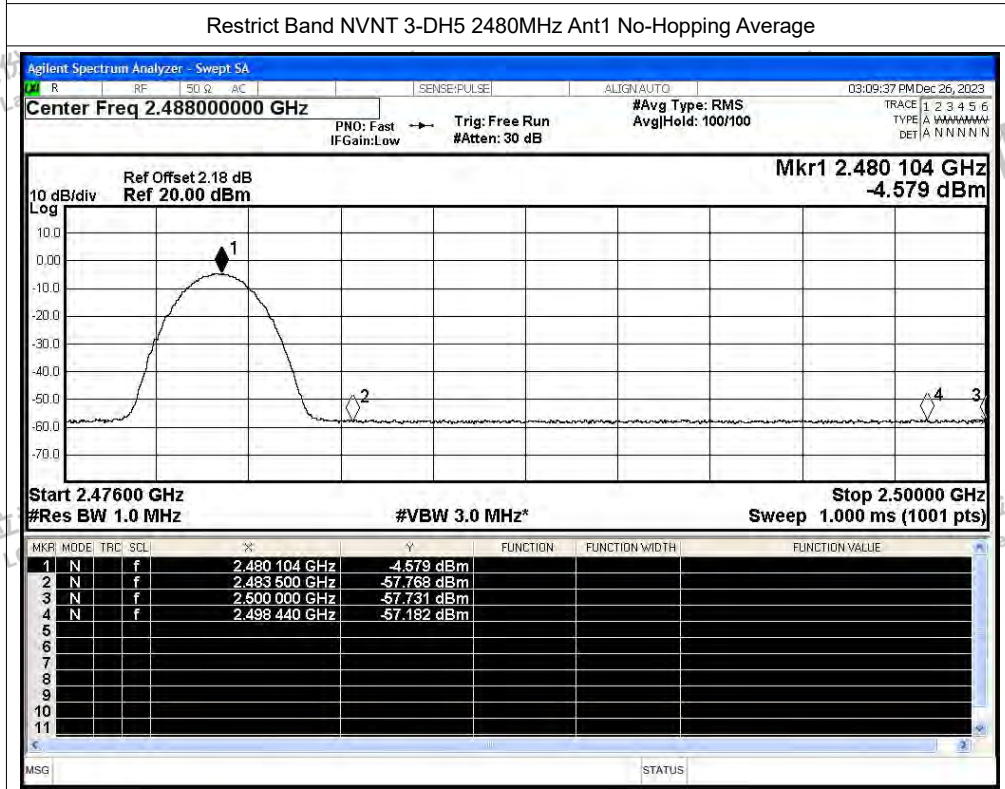
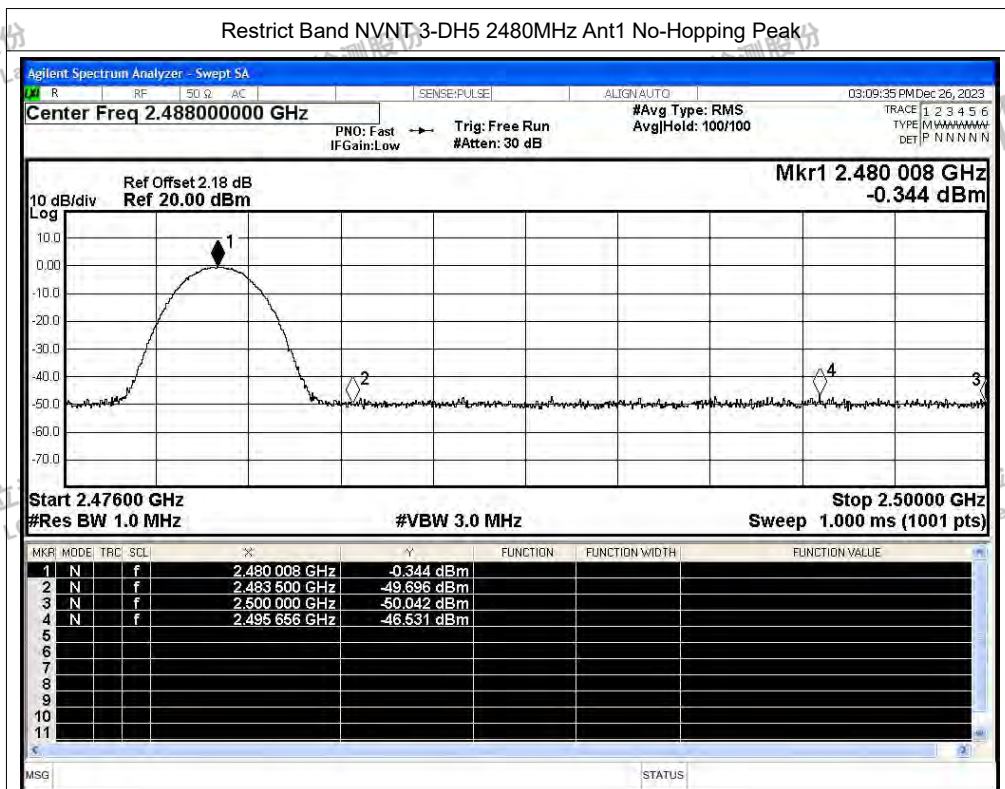


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