



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Halterneck sports headphones

Test Model: U20

Environmental Conditions

Temperature:	23.6° C
Relative Humidity:	52.0%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.942	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.955	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.997	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.286	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.287	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.289	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.297	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.294	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.295	N/A	Pass



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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

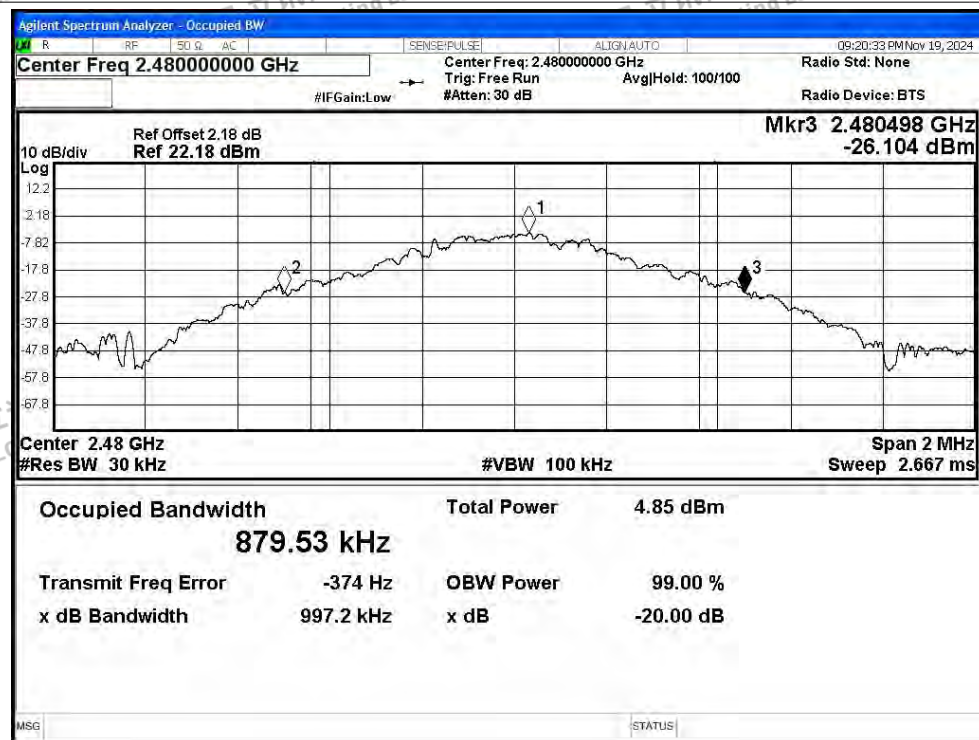


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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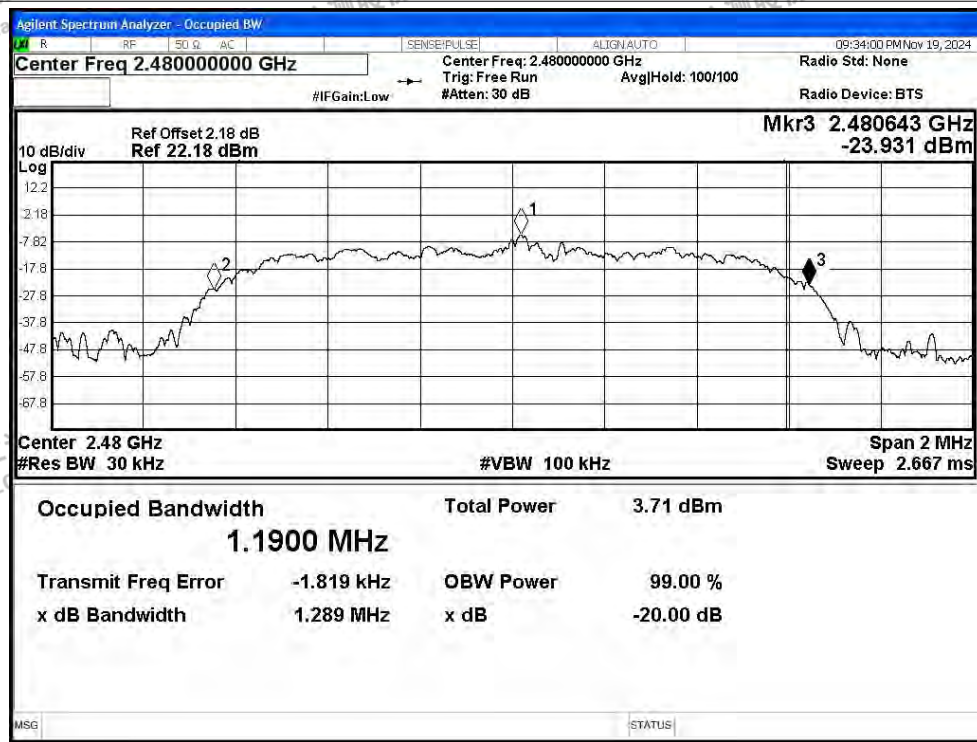
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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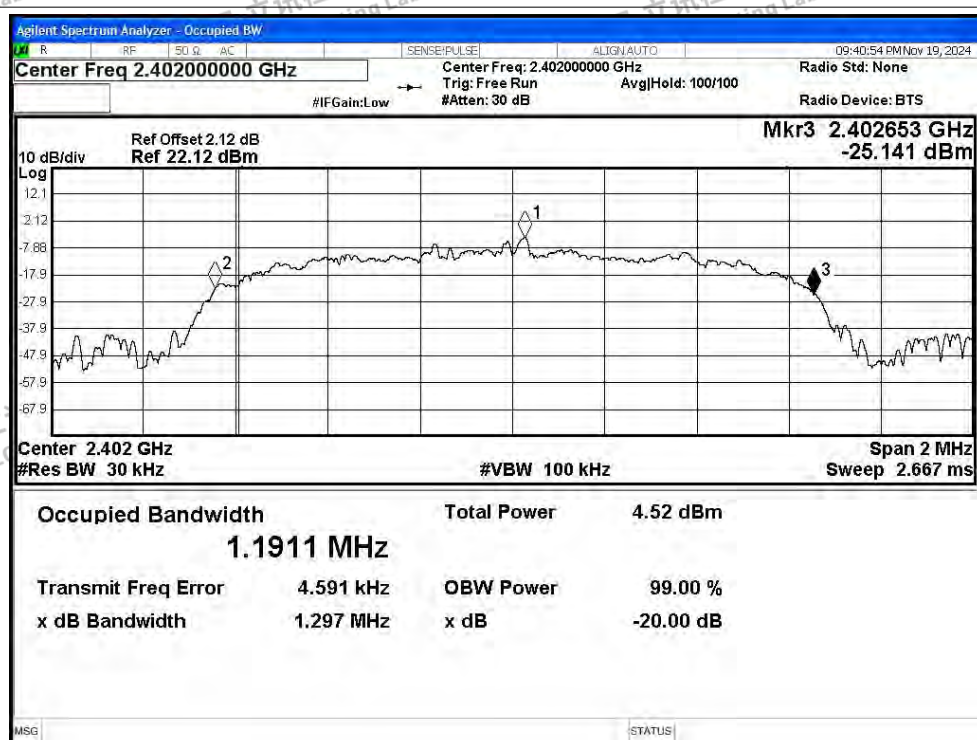
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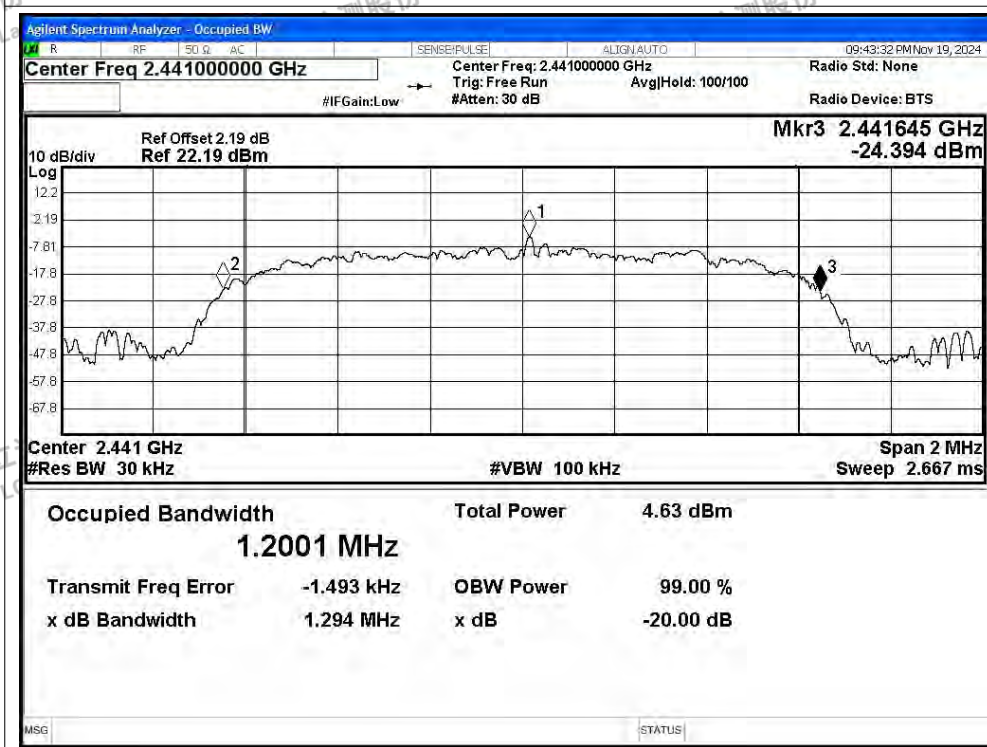
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



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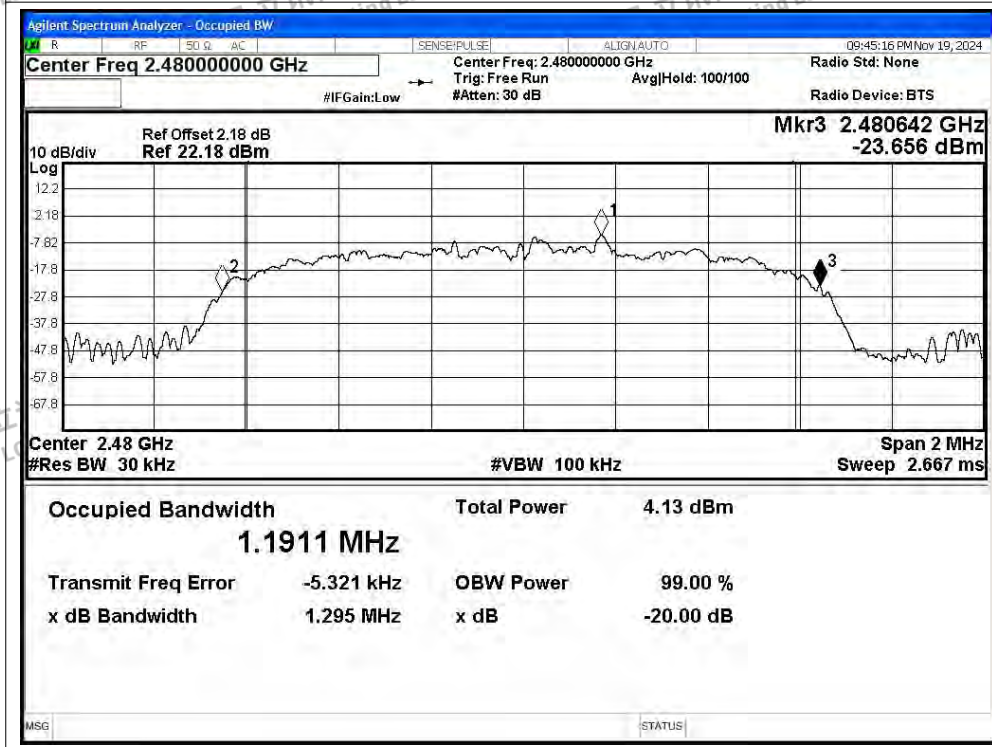
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-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



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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	-0.49	21	Pass
NVNT	1-DH5	2441	Ant1	-0.26	21	Pass
NVNT	1-DH5	2480	Ant1	-1.31	21	Pass
NVNT	2-DH5	2402	Ant1	0.21	21	Pass
NVNT	2-DH5	2441	Ant1	0.63	21	Pass
NVNT	2-DH5	2480	Ant1	-0.33	21	Pass
NVNT	3-DH5	2402	Ant1	0.57	21	Pass
NVNT	3-DH5	2441	Ant1	1.01	21	Pass
NVNT	3-DH5	2480	Ant1	0.02	21	Pass

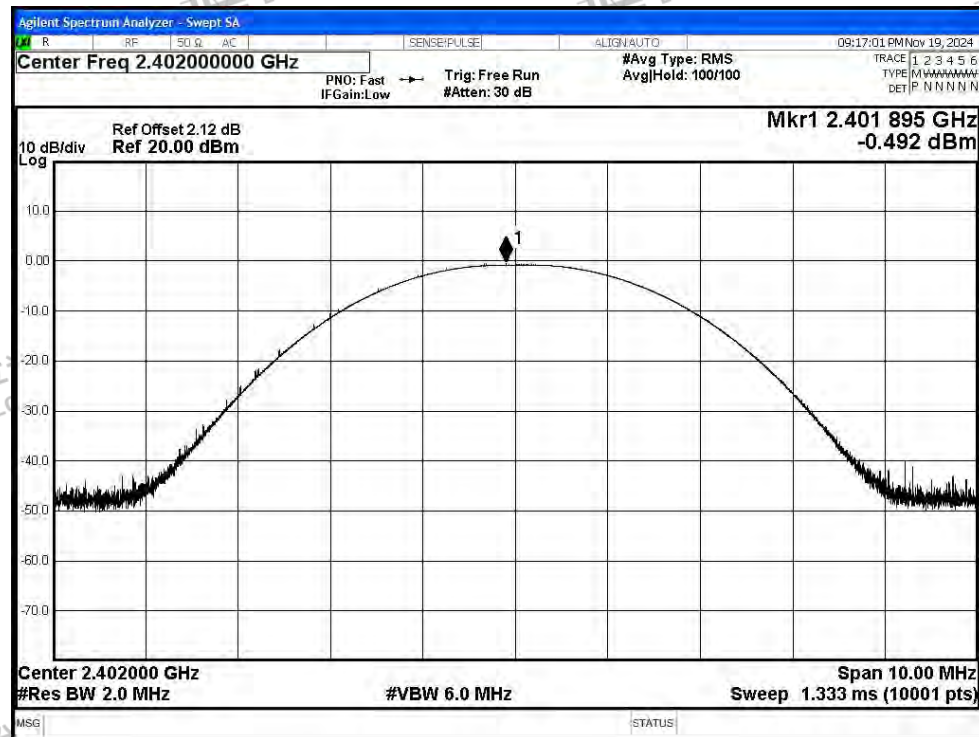


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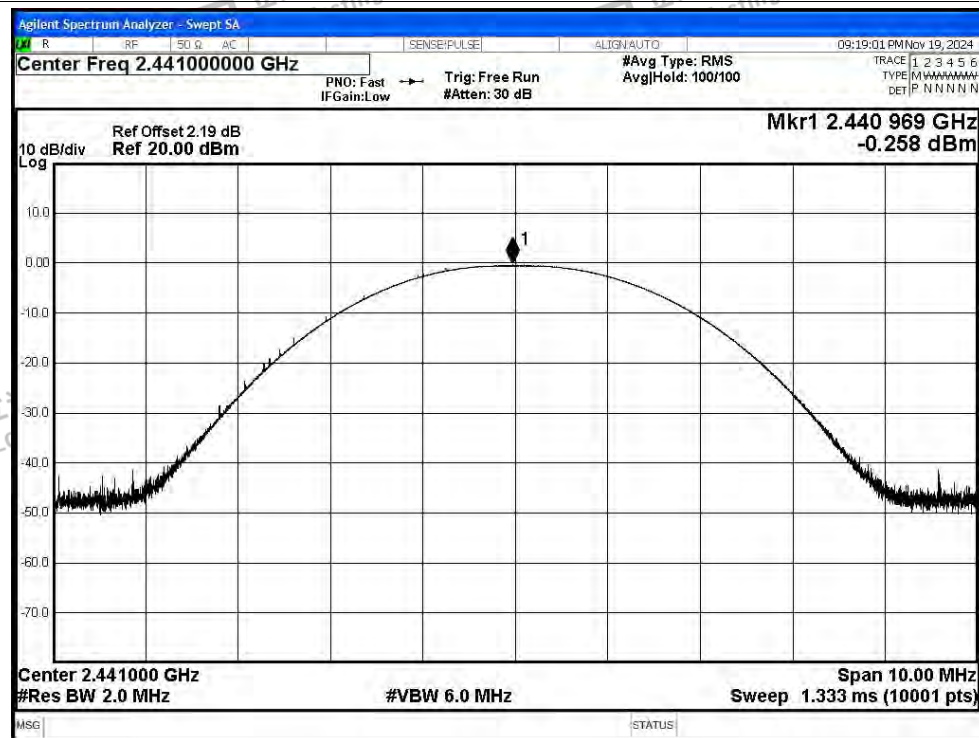


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

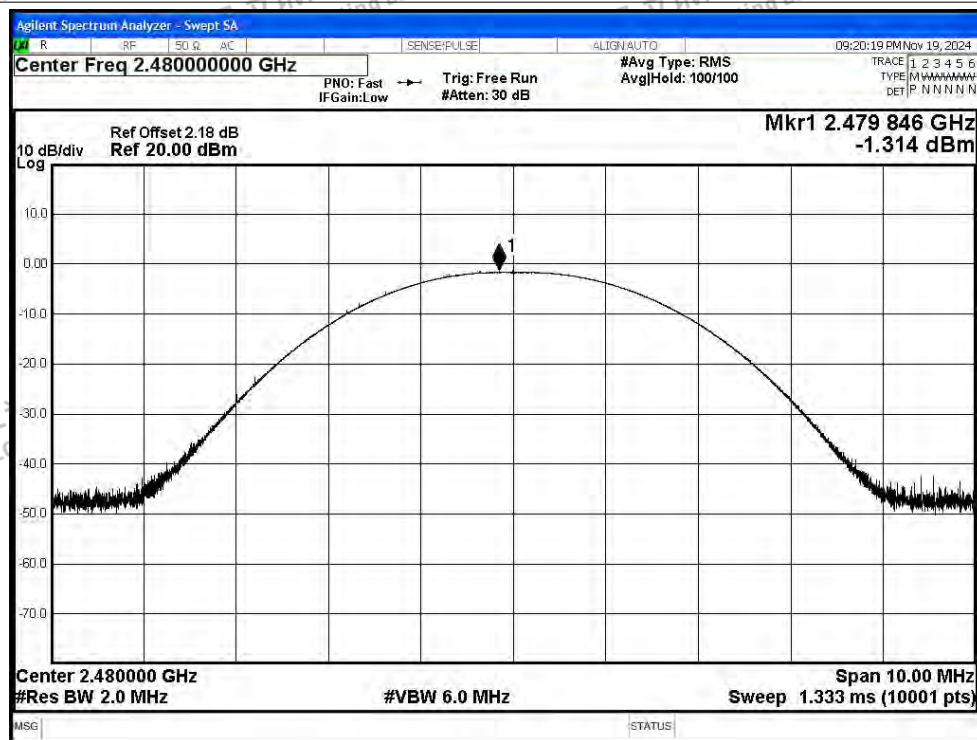


Power NVNT 1-DH5 2441MHz Ant1

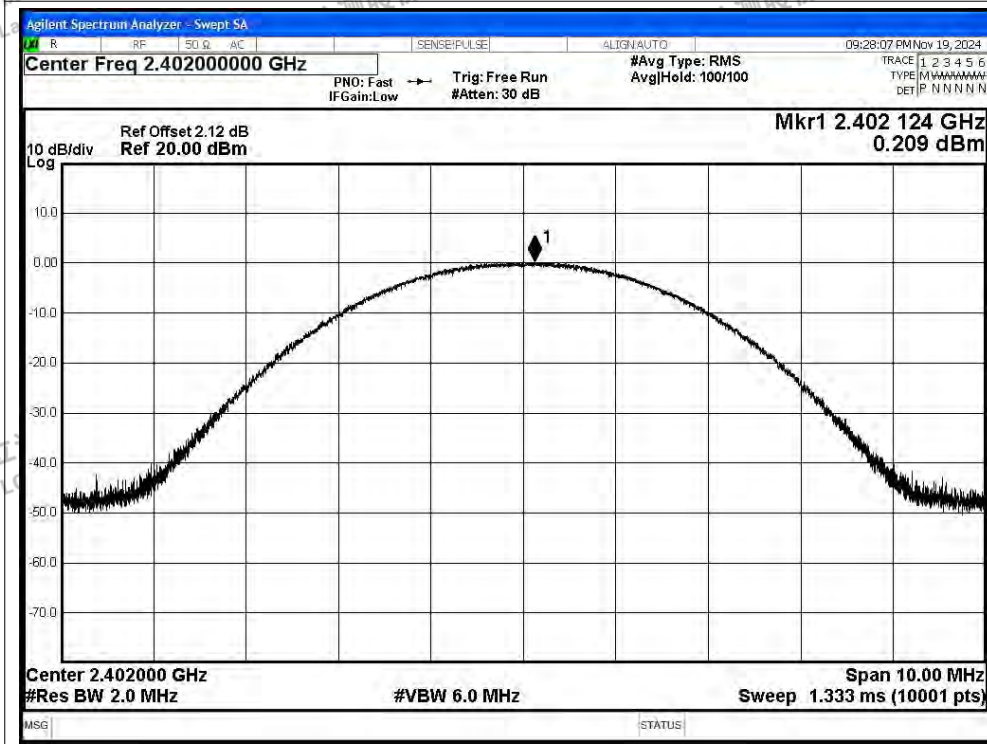




Power NVNT 1-DH5 2480MHz Ant1

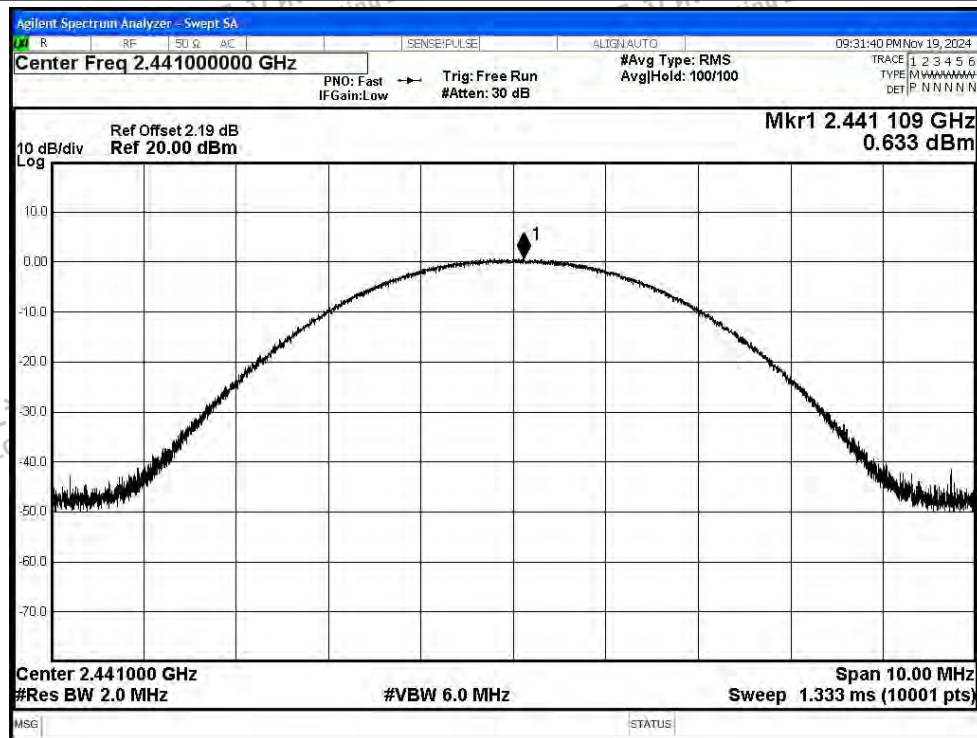


Power NVNT 2-DH5 2402MHz Ant1

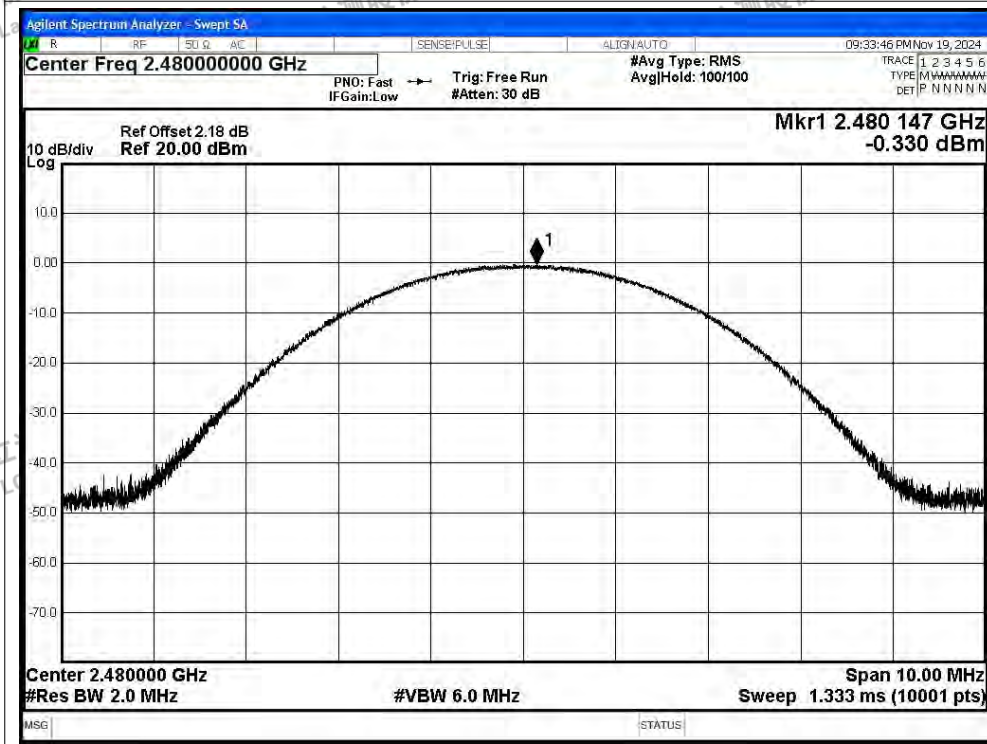




Power NVNT 2-DH5 2441MHz Ant1

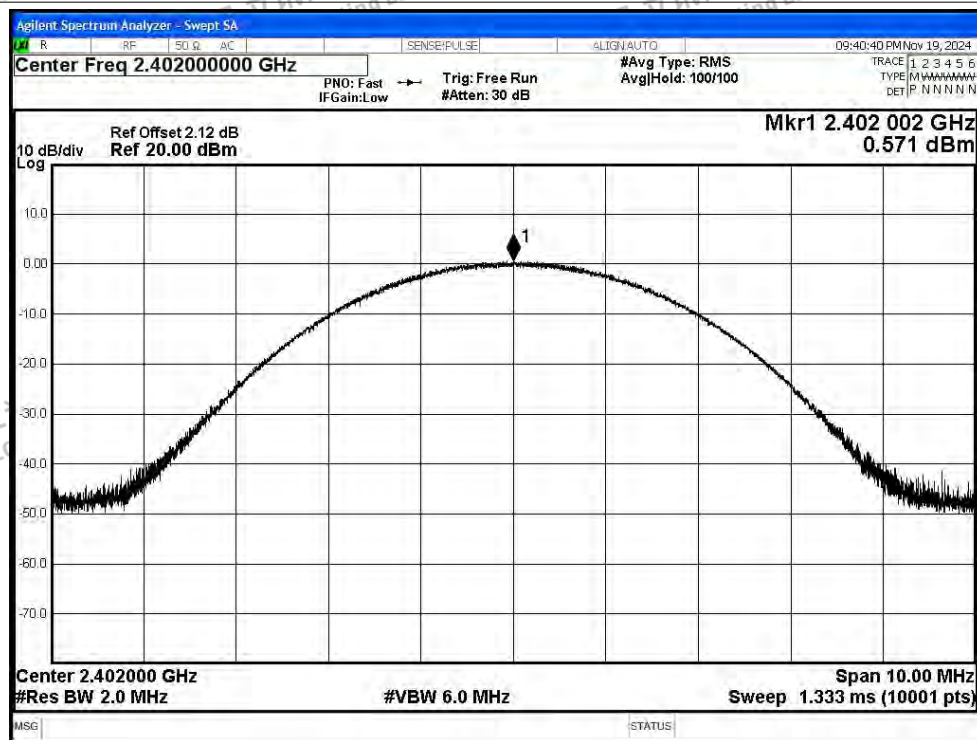


Power NVNT 2-DH5 2480MHz Ant1

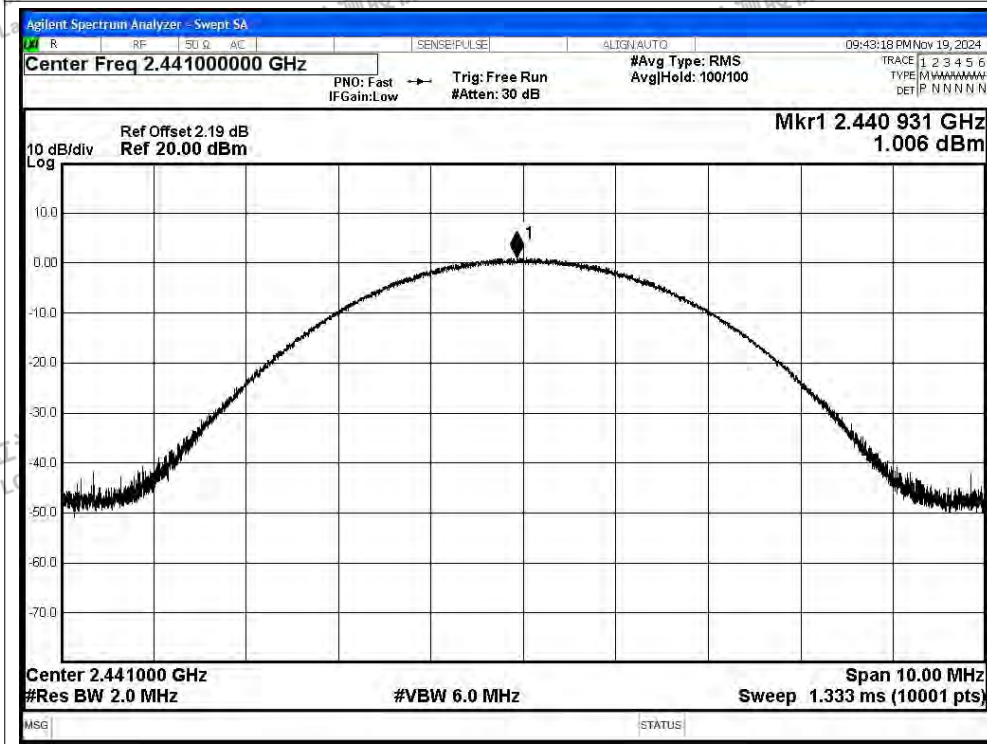




Power NVNT 3-DH5 2402MHz Ant1

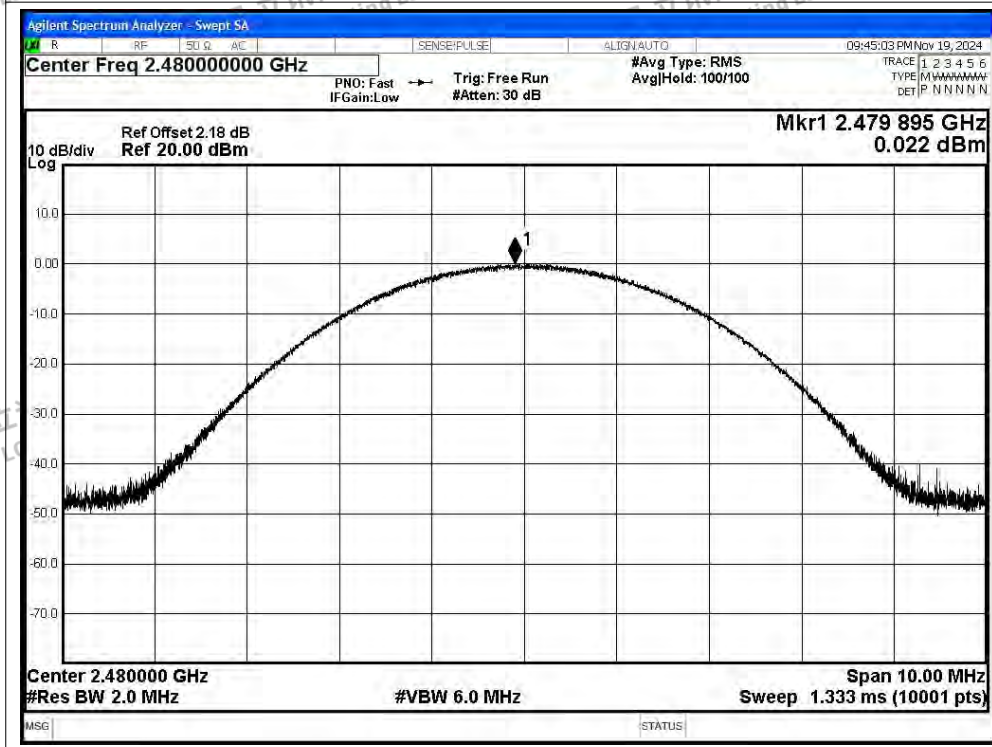


Power NVNT 3-DH5 2441MHz Ant1





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	2401.83	2402.844	1.014	0.665	Pass
NVNT	2-DH5	Ant1	2402.118	2403.03	0.912	0.859	Pass
NVNT	3-DH5	Ant1	2402.162	2403.172	1.01	0.865	Pass



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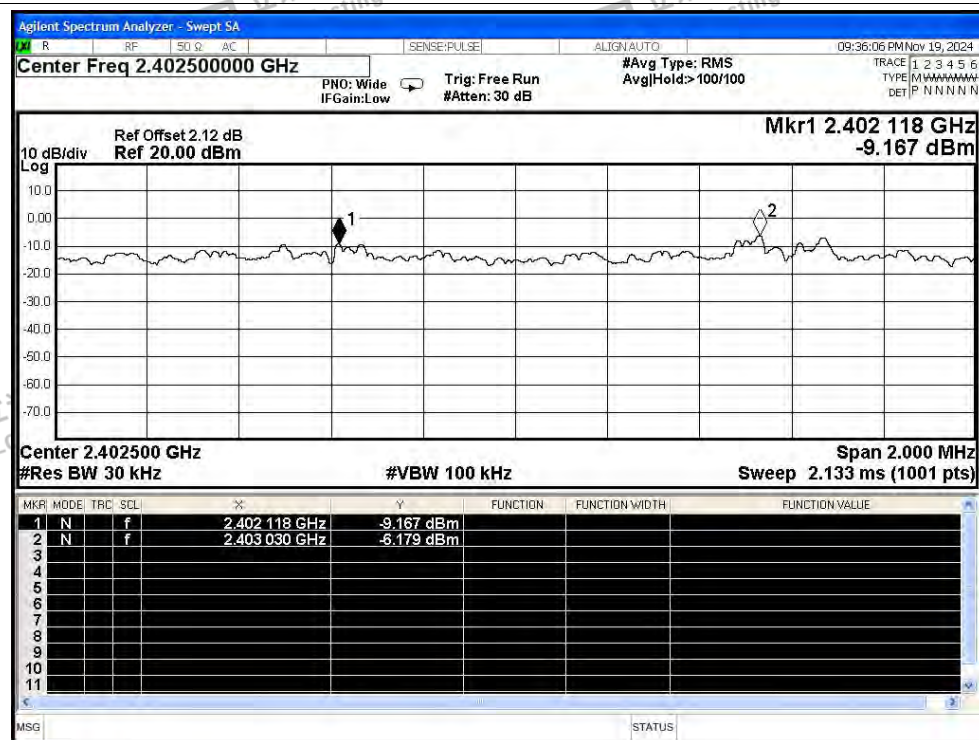


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



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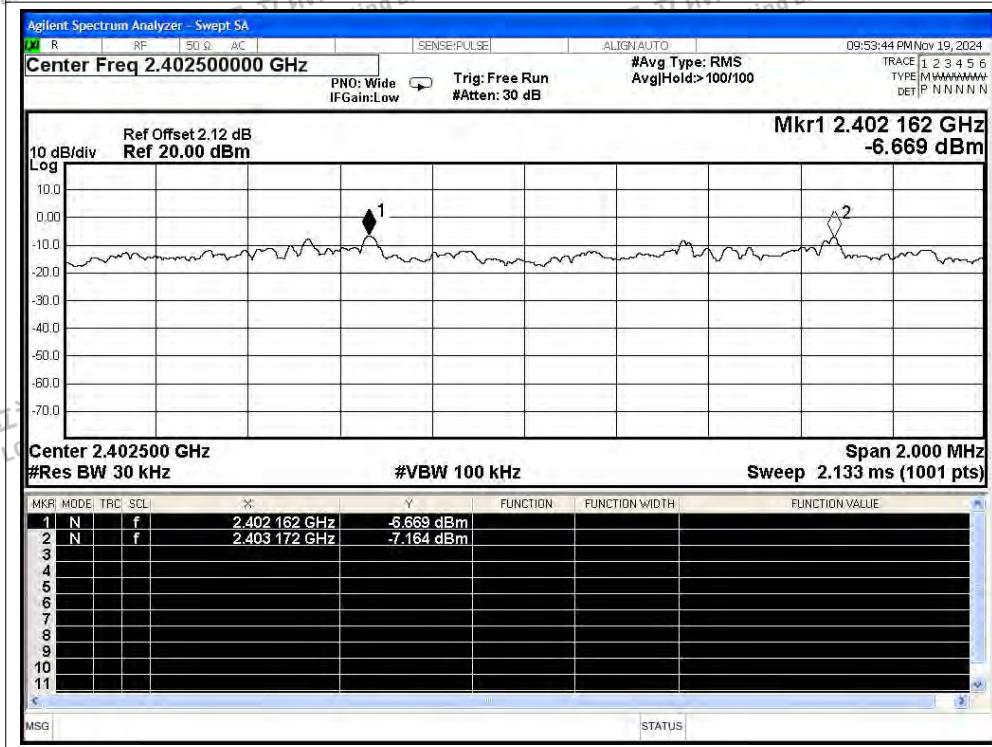
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CFS NVNT 3-DH5 2402MHz Ant1



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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	311.37	107	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	312.984	108	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	315.773	109	31600	400	Pass

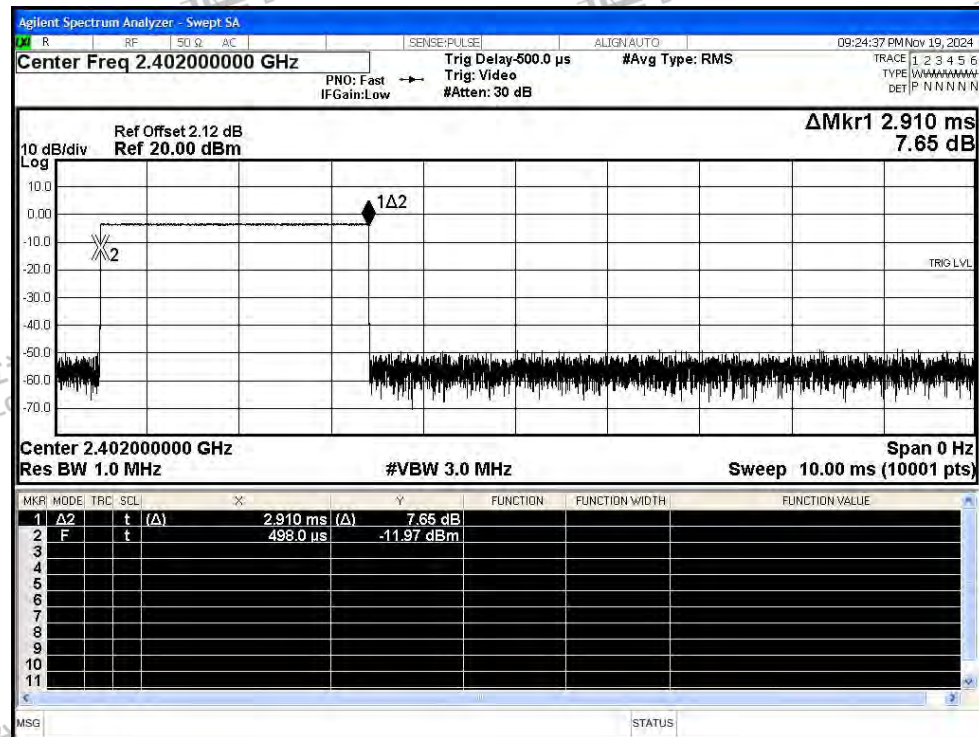


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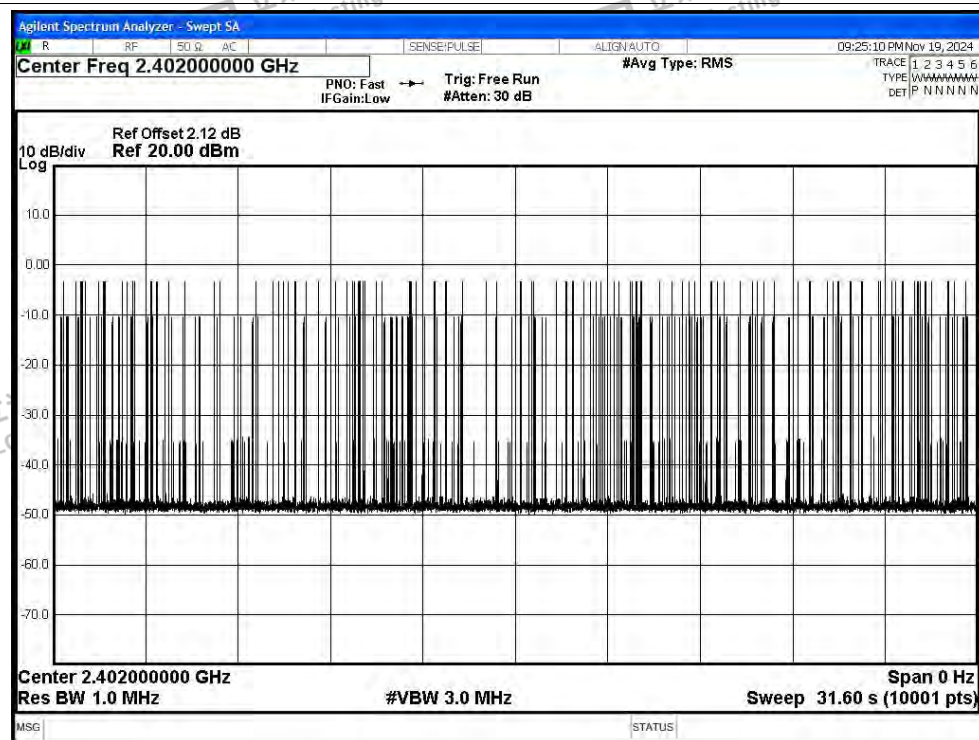


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



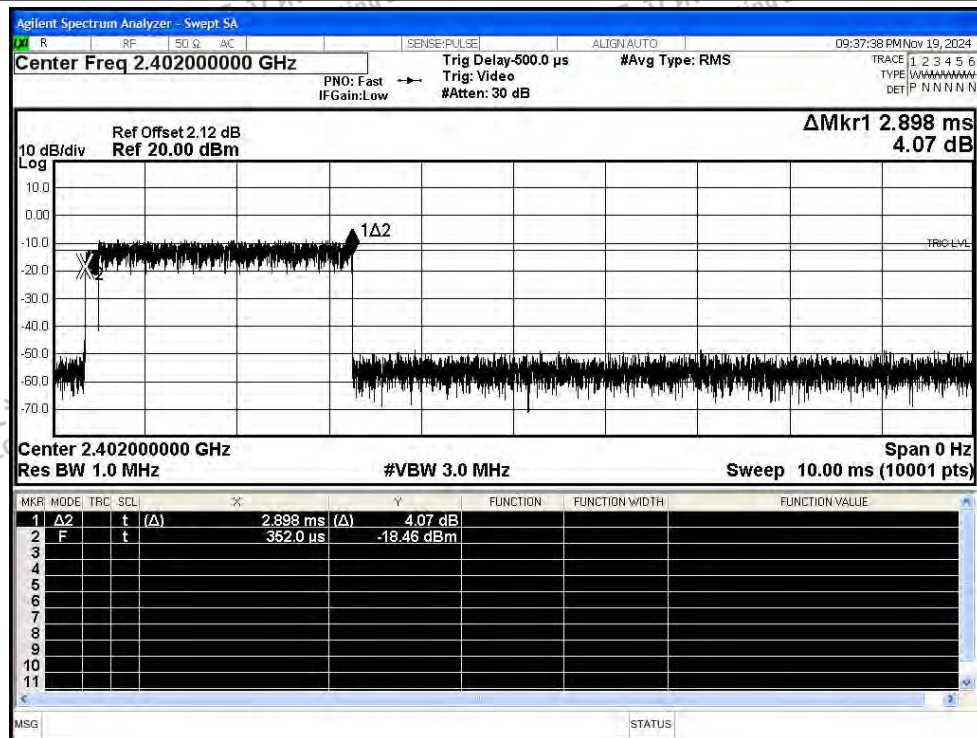
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



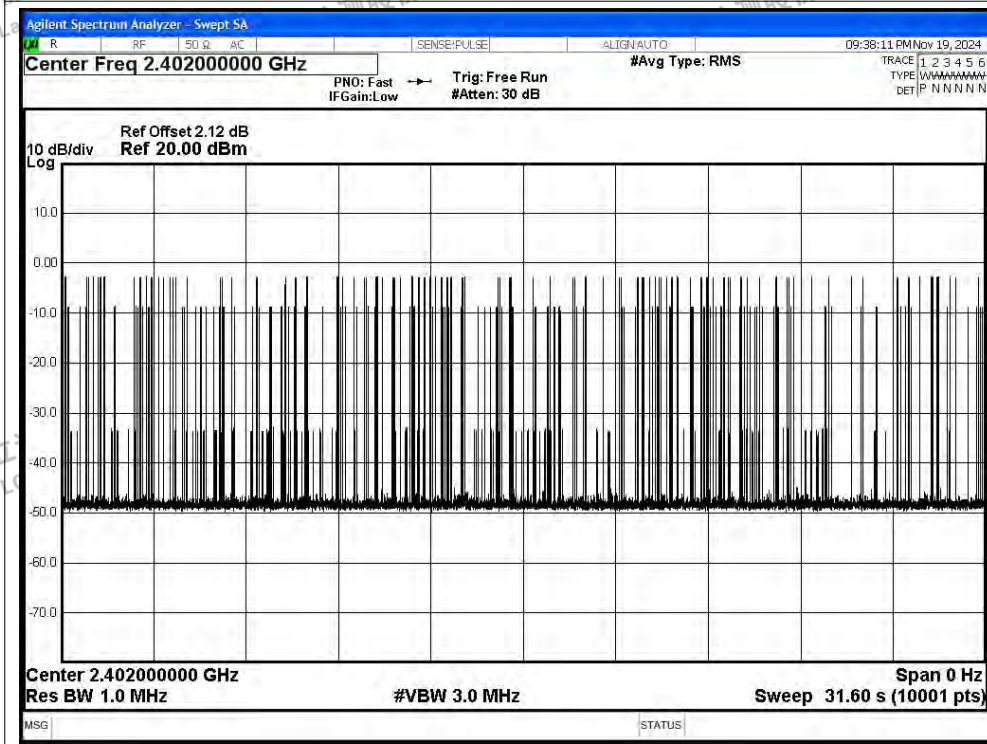
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

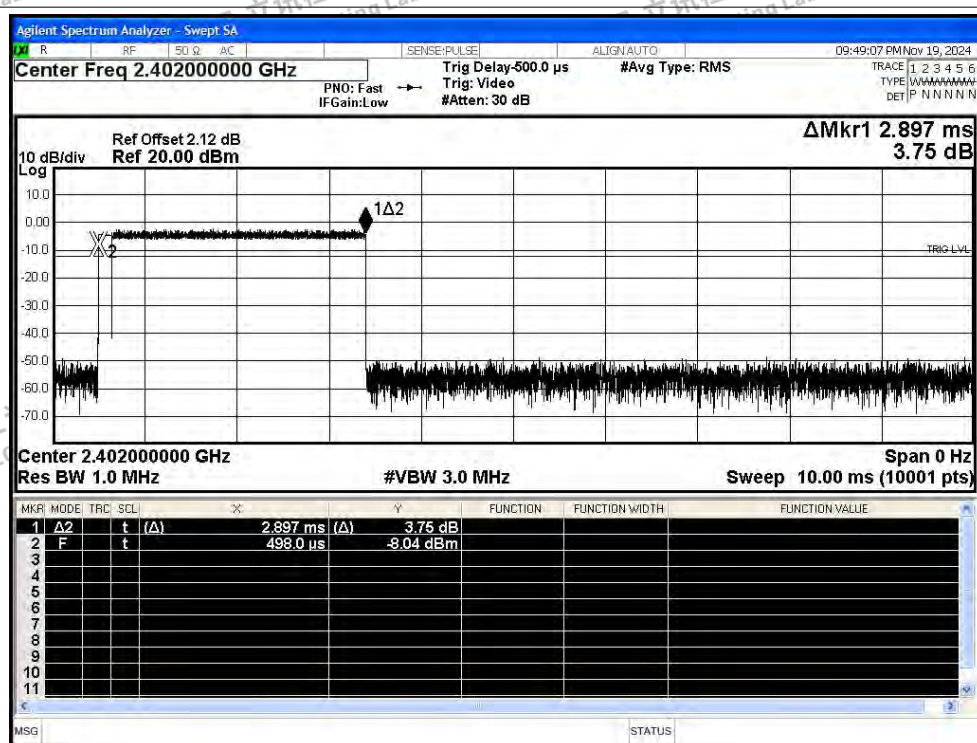


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

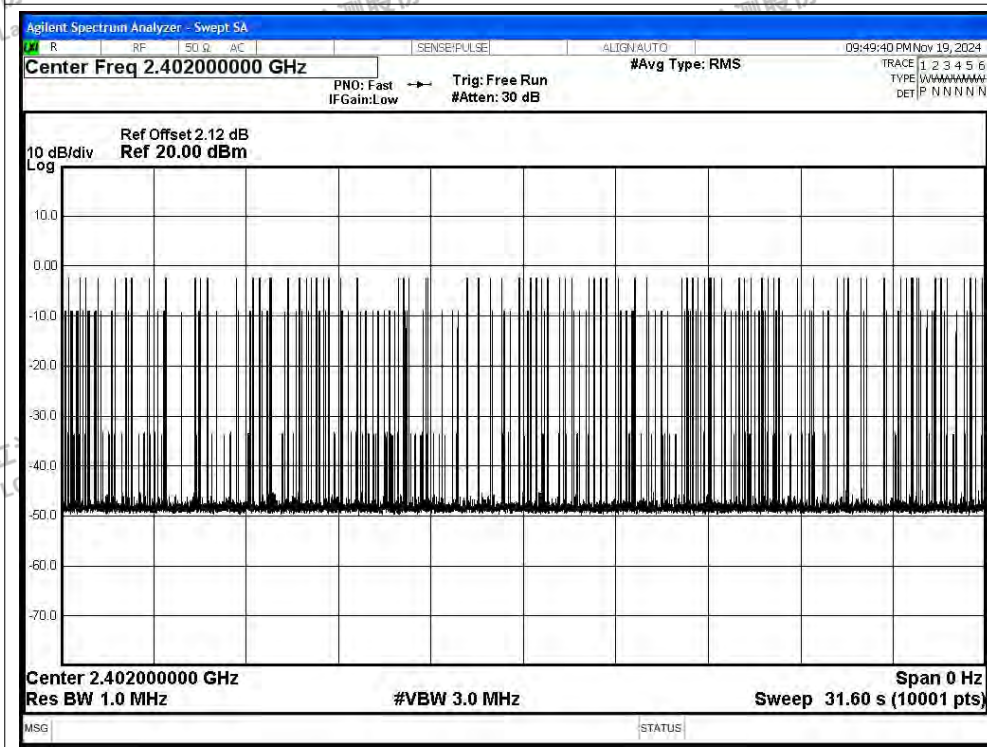




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

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

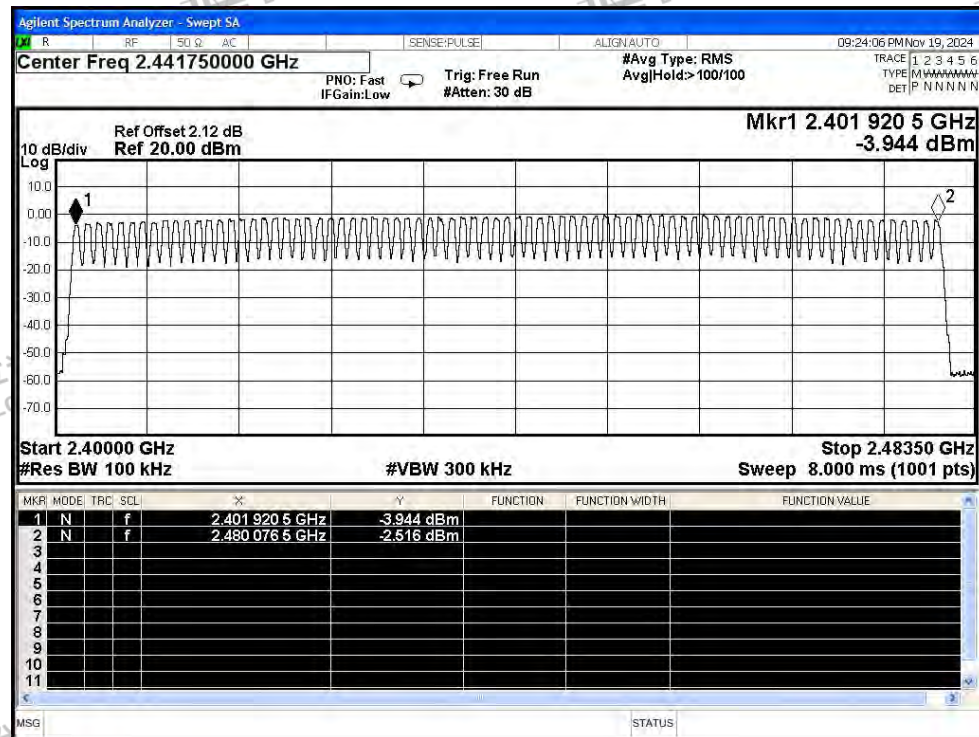


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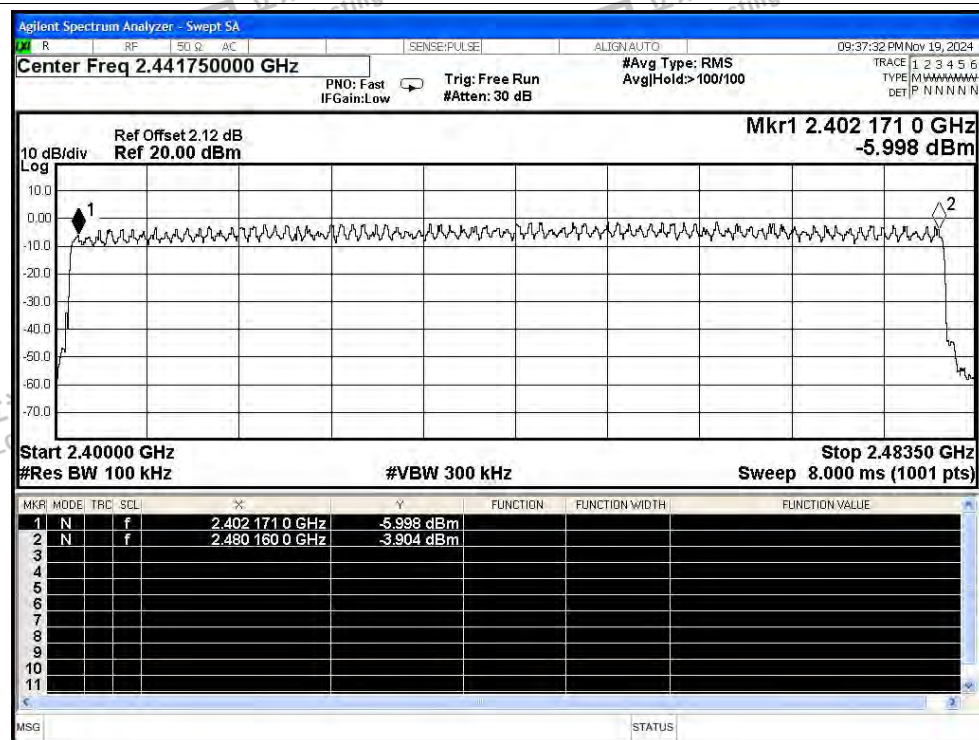


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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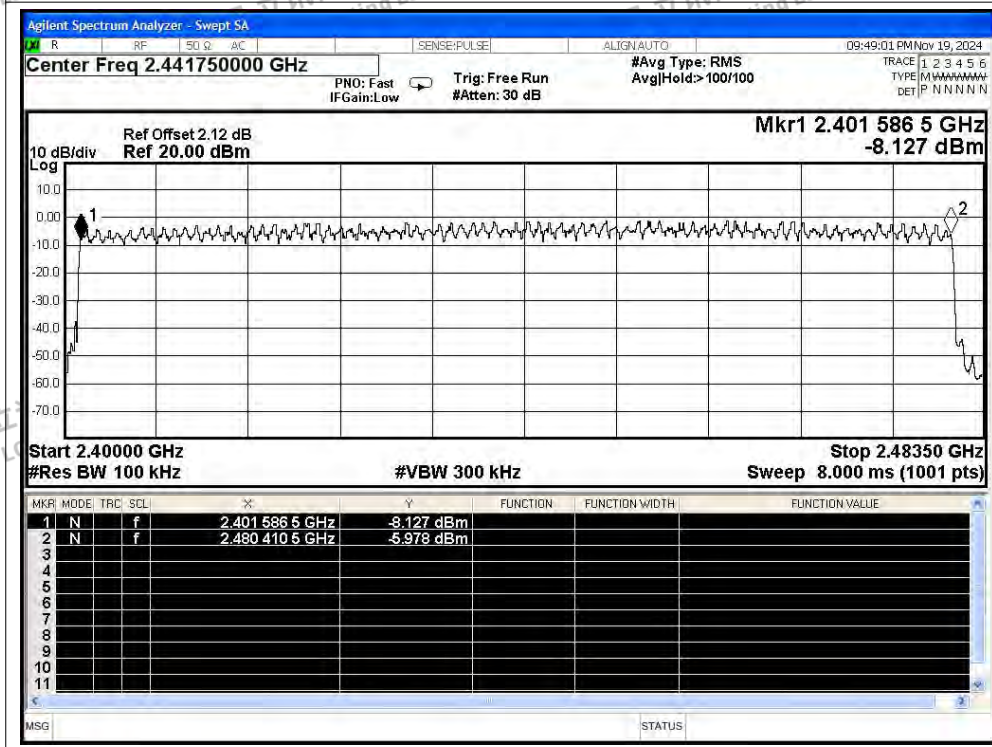
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Hopping No. NVNT 3-DH5 2402MHz Ant1



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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	-55.6	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.76	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.58	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-51.46	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.65	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.65	-20	Pass

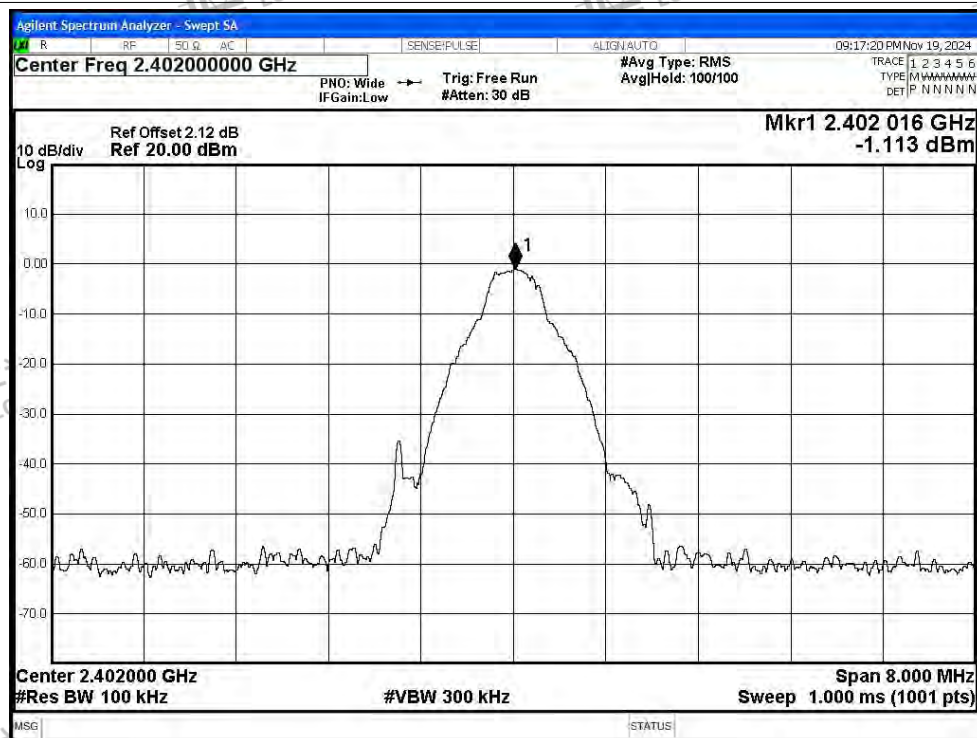


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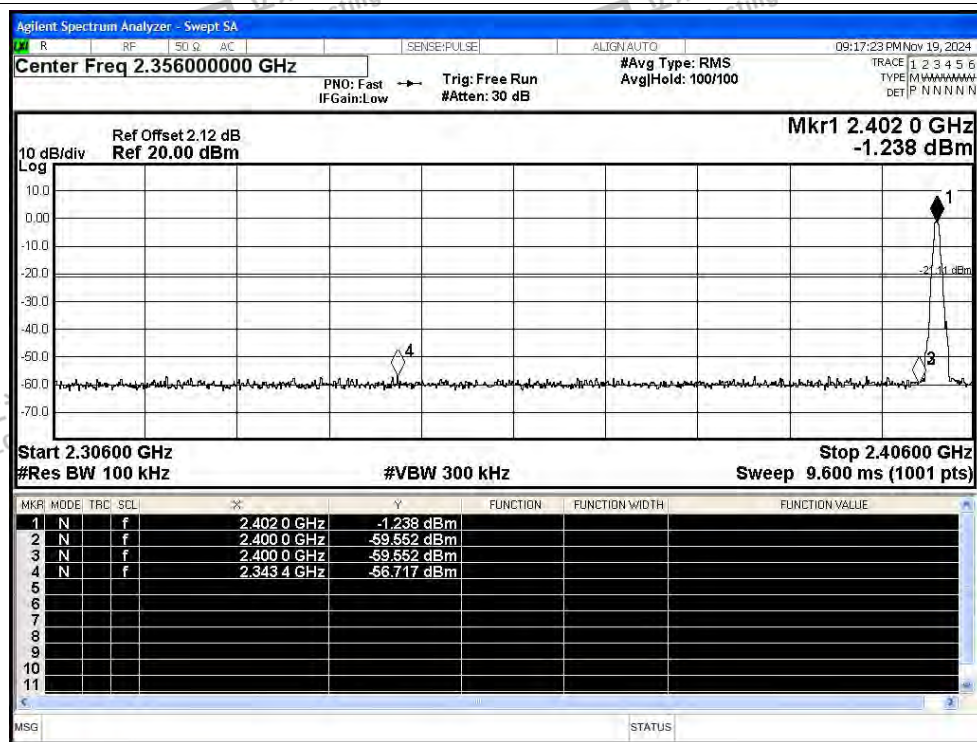


Test Graphs

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



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



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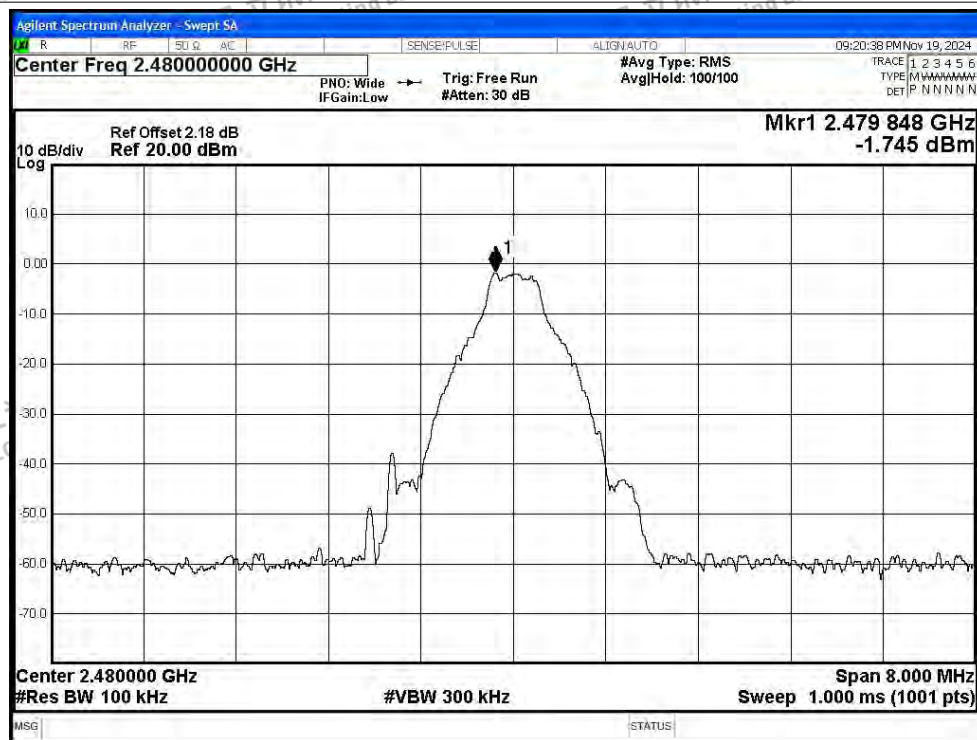
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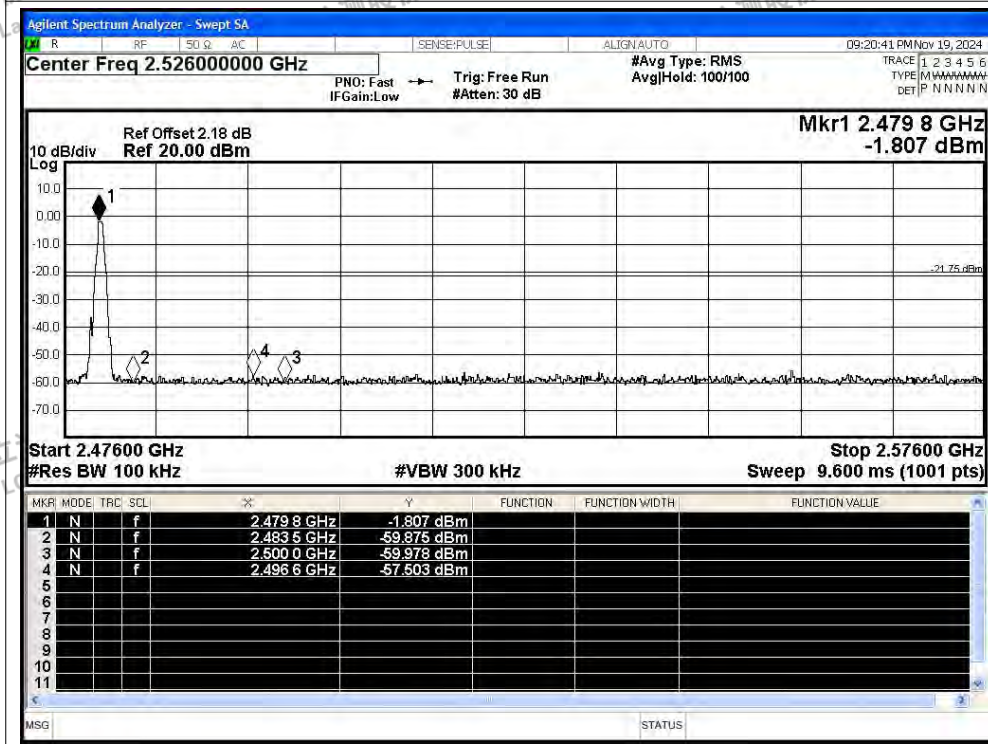
Scan code to check authenticity



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

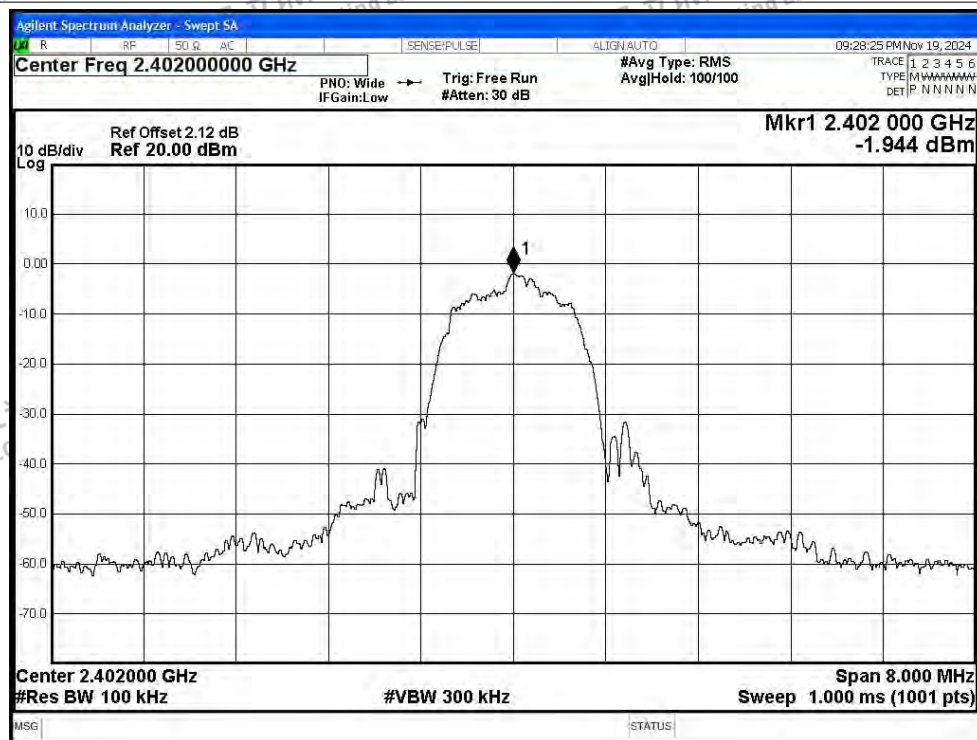


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

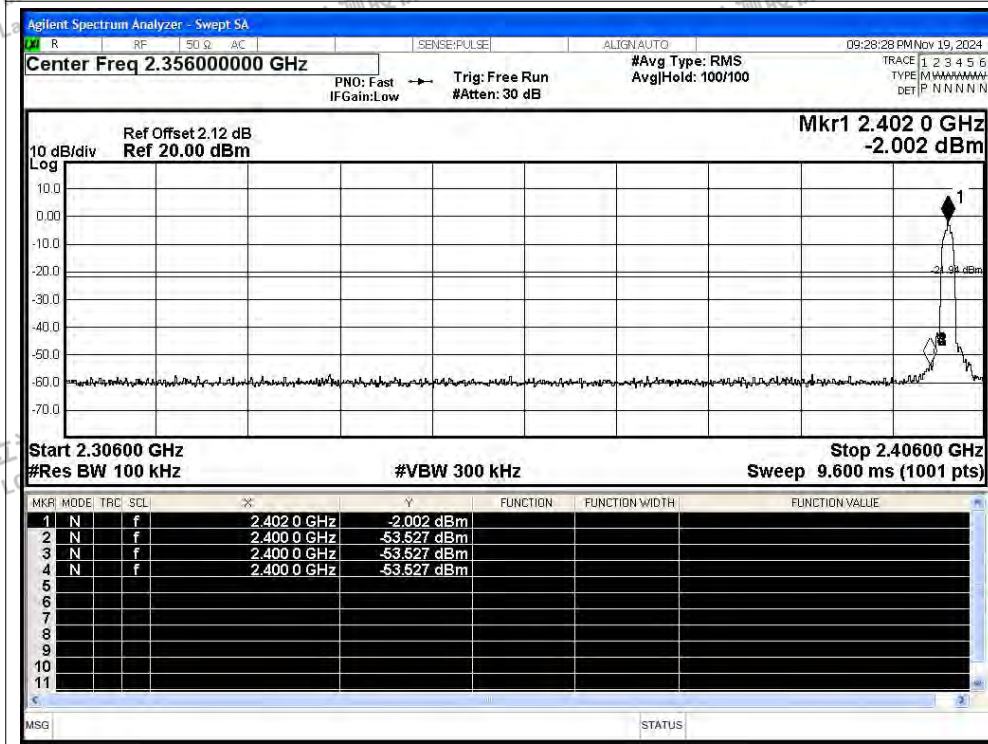




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

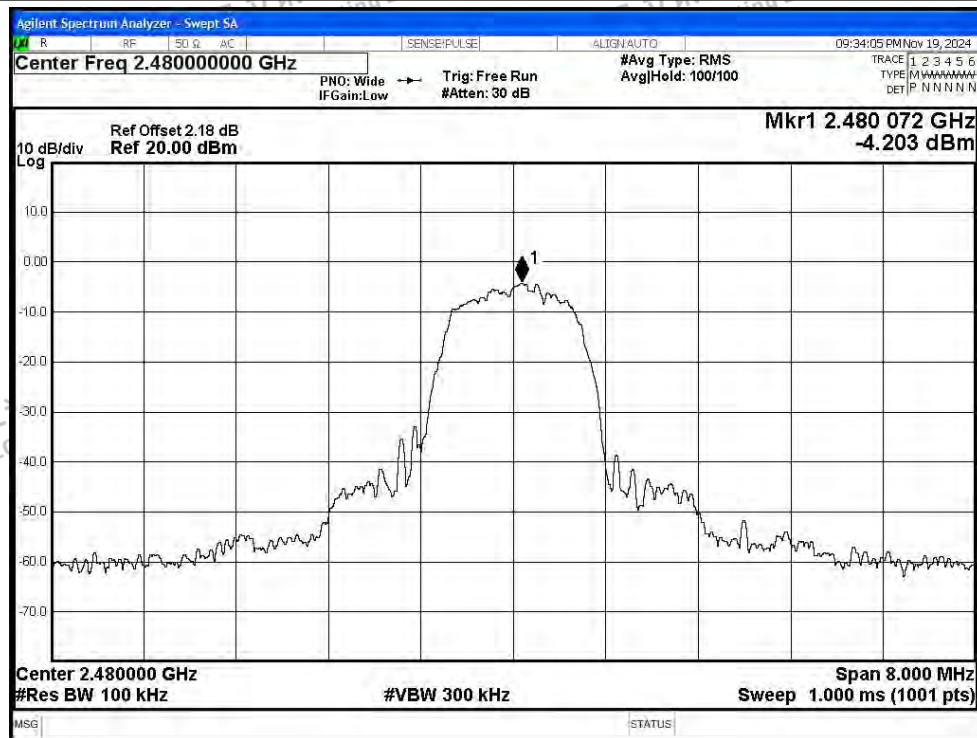


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

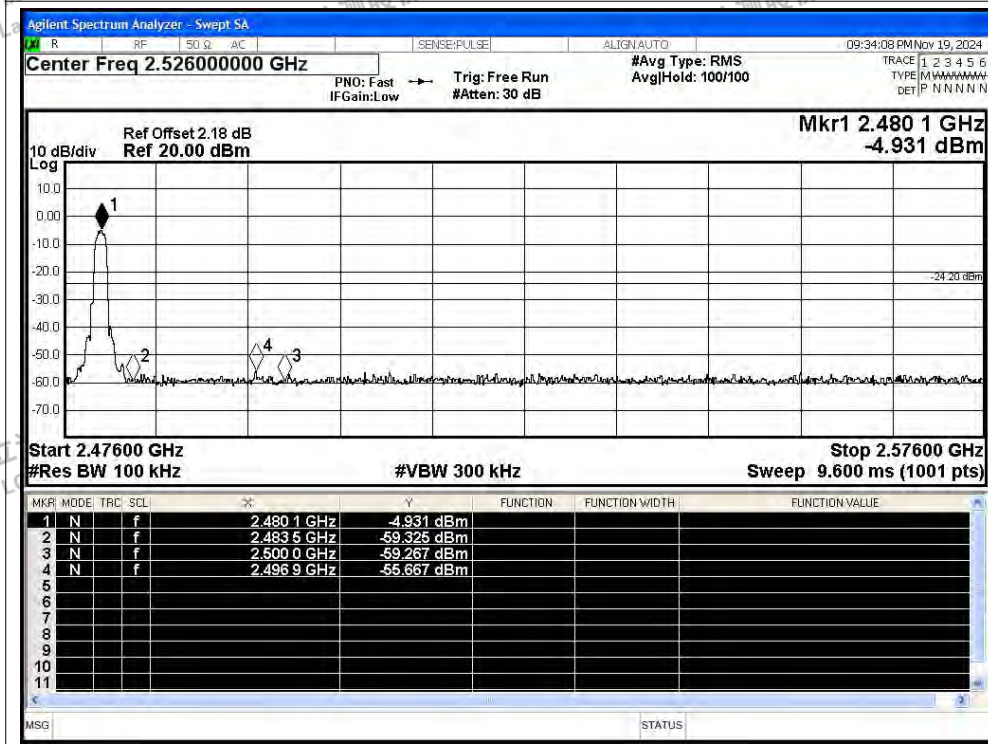




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

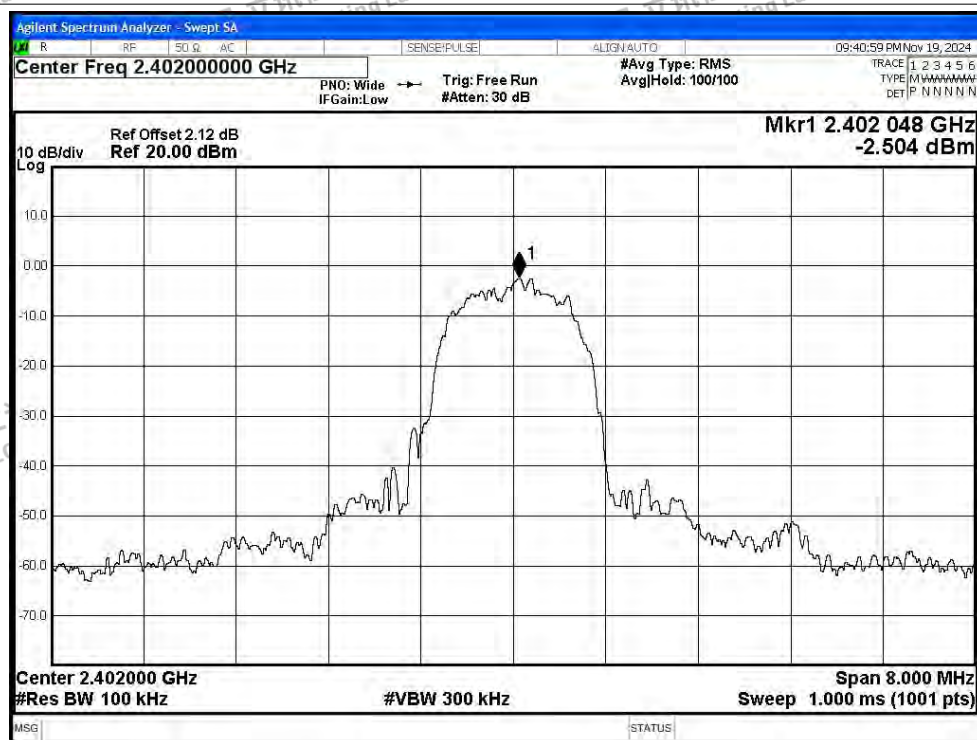


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

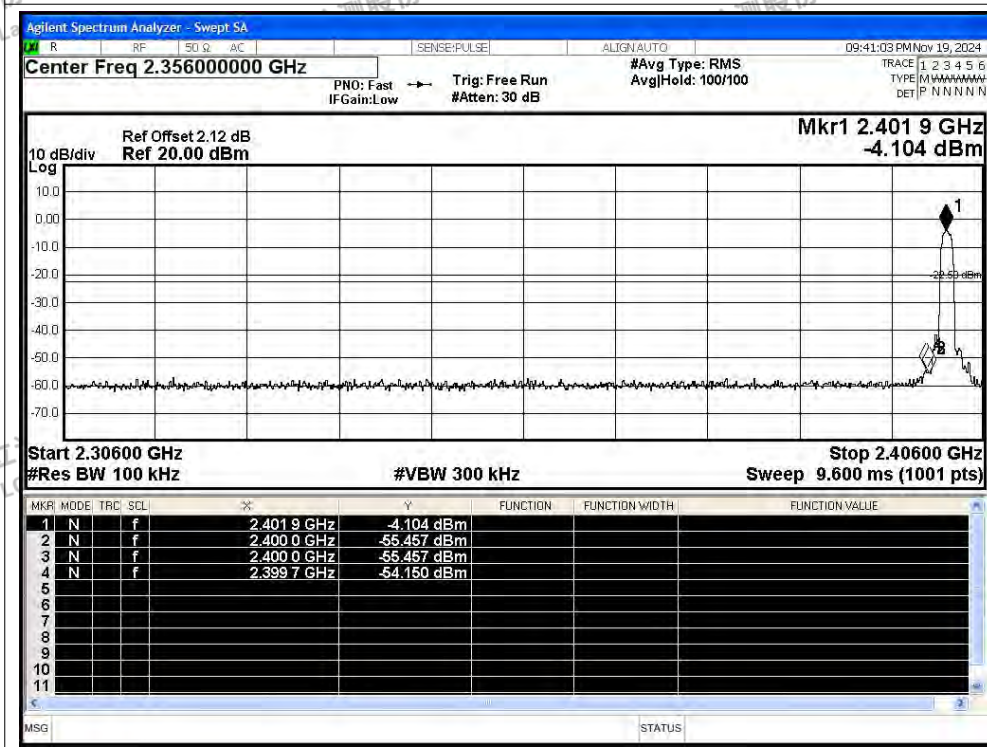




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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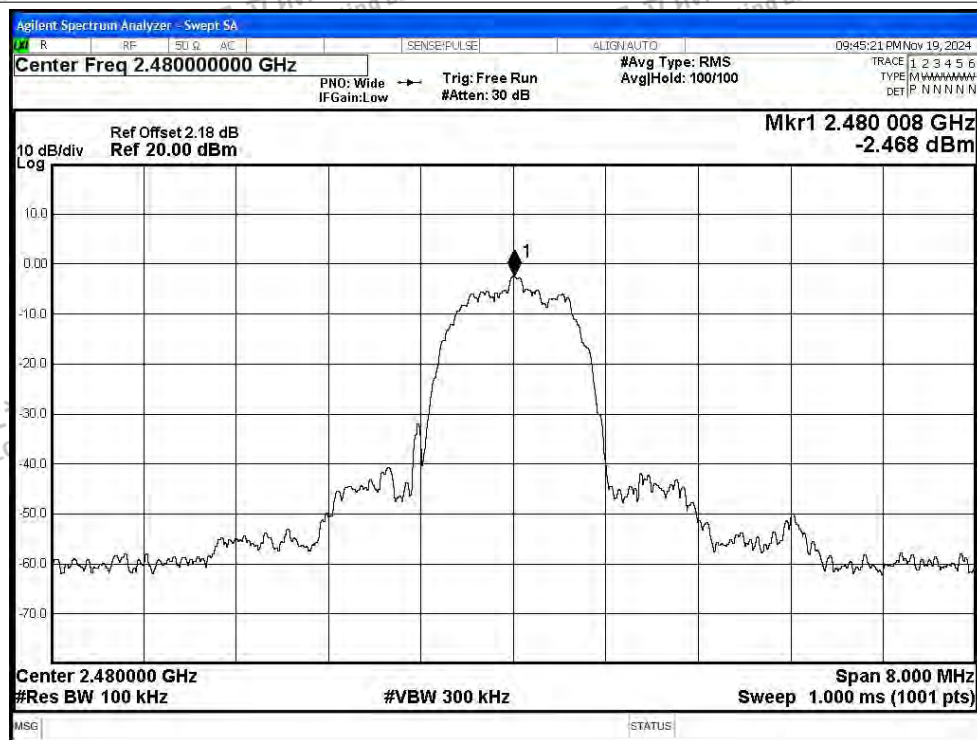
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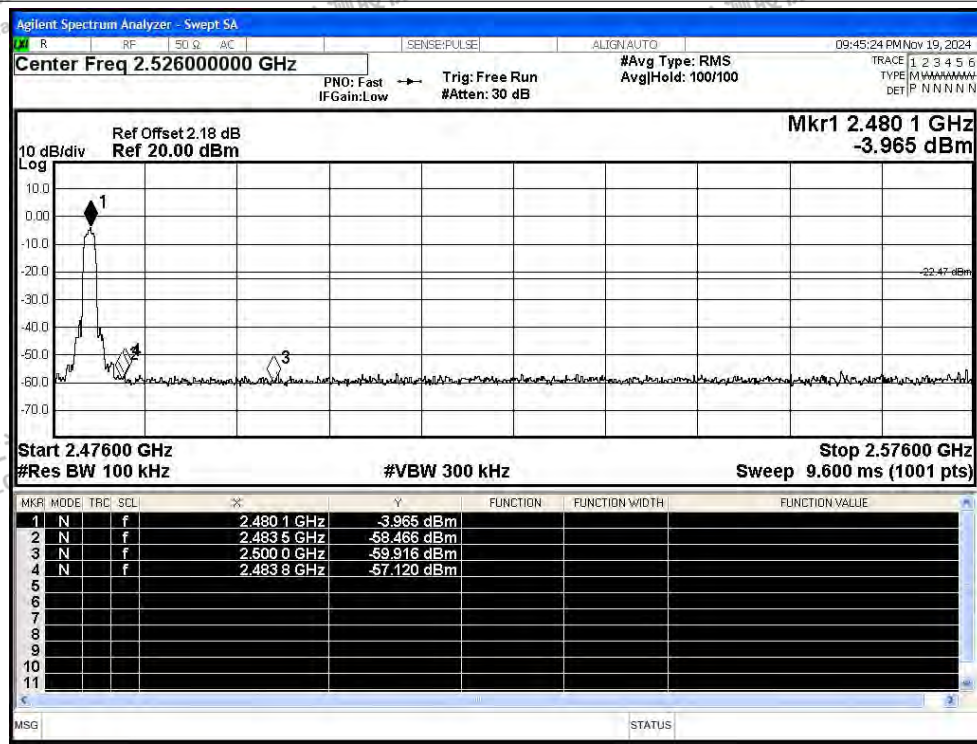
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



**(Hopping)**

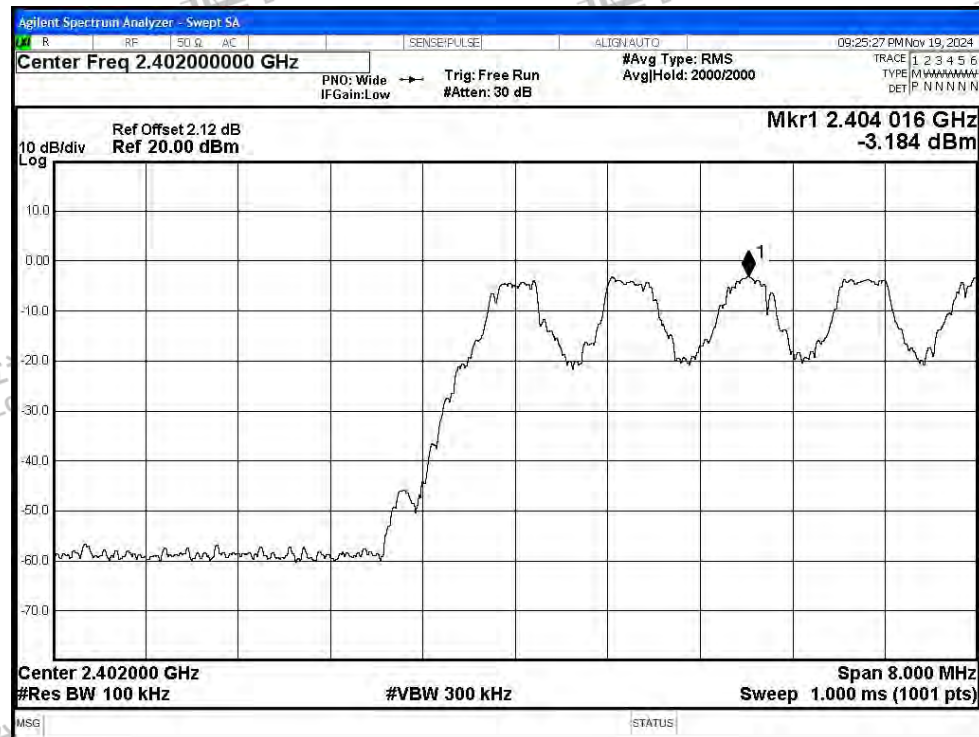
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.12	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.03	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-51.97	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-51.94	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.94	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.35	-20	Pass



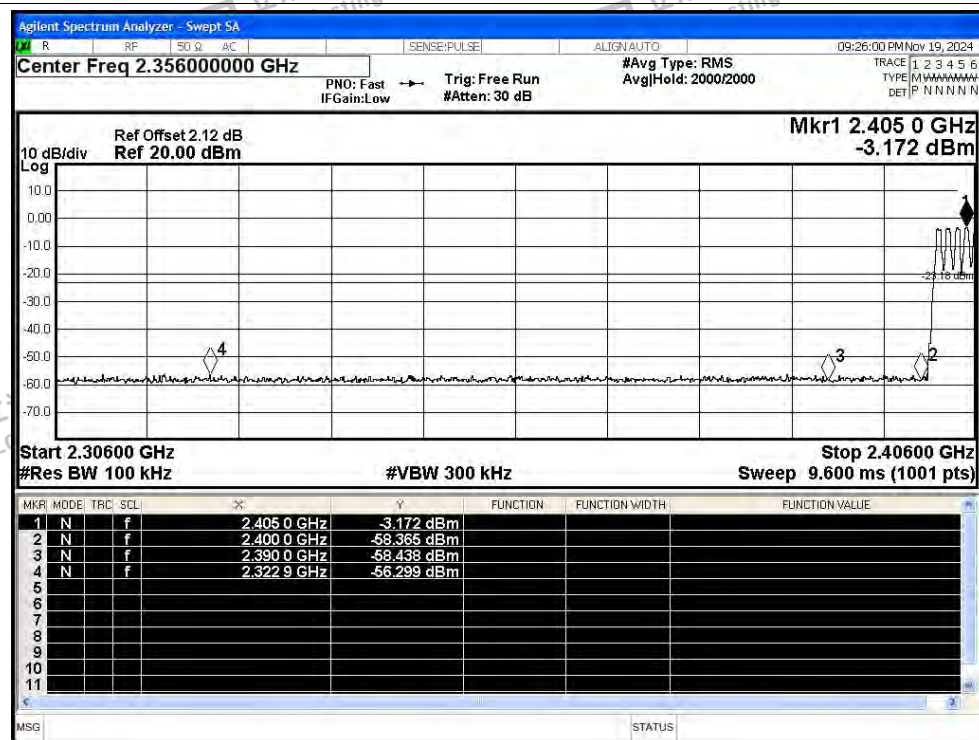


Test Graphs

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



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



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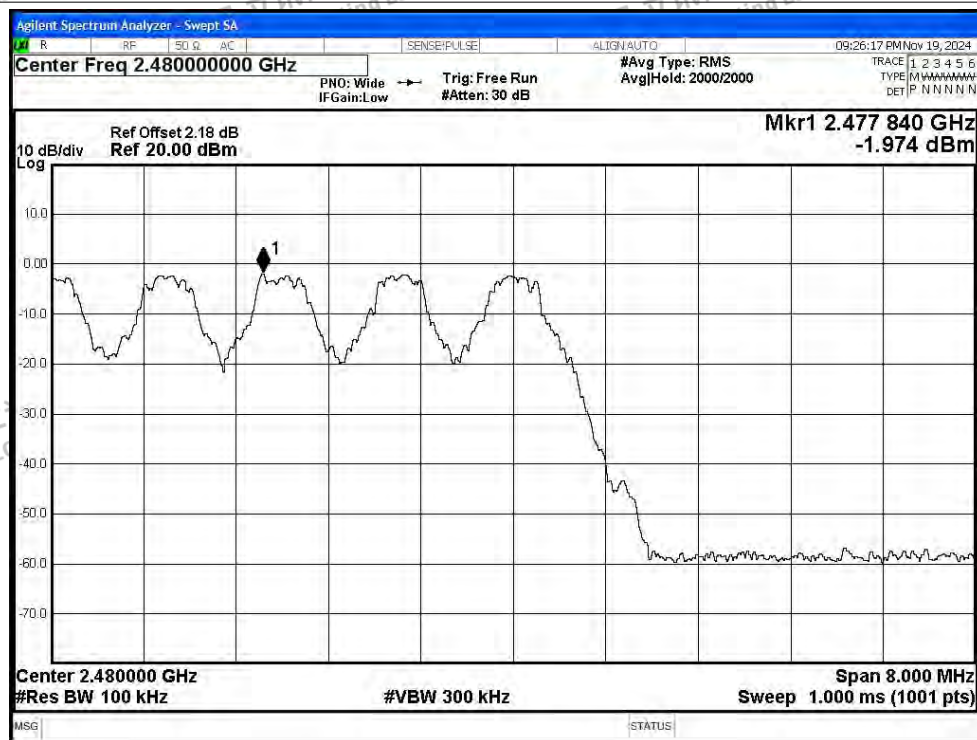
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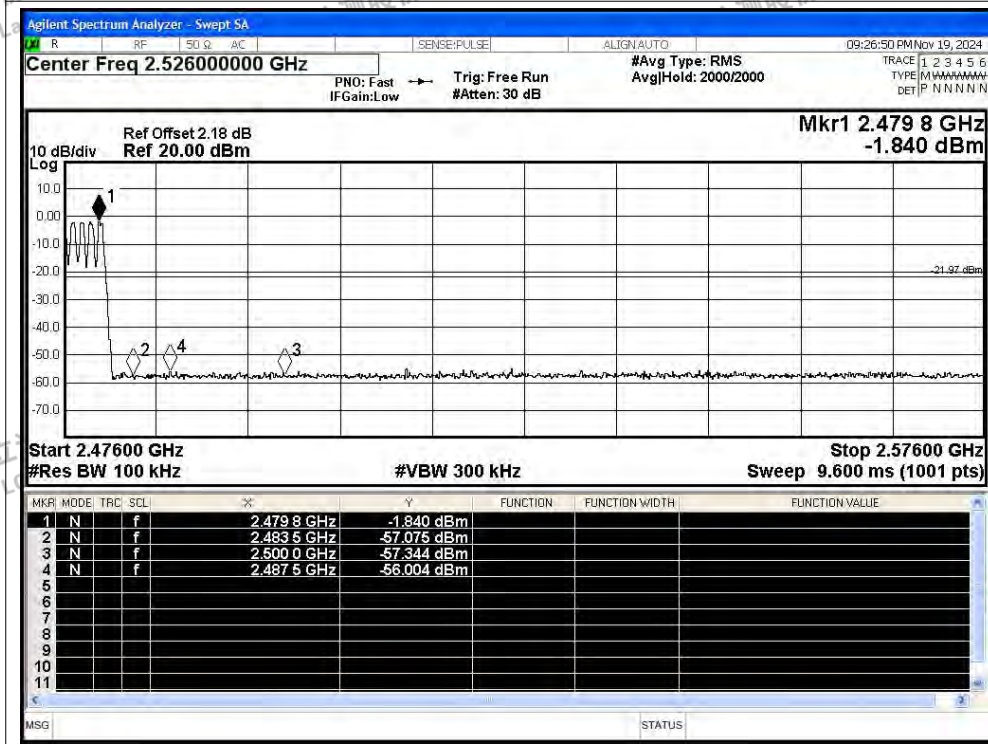
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

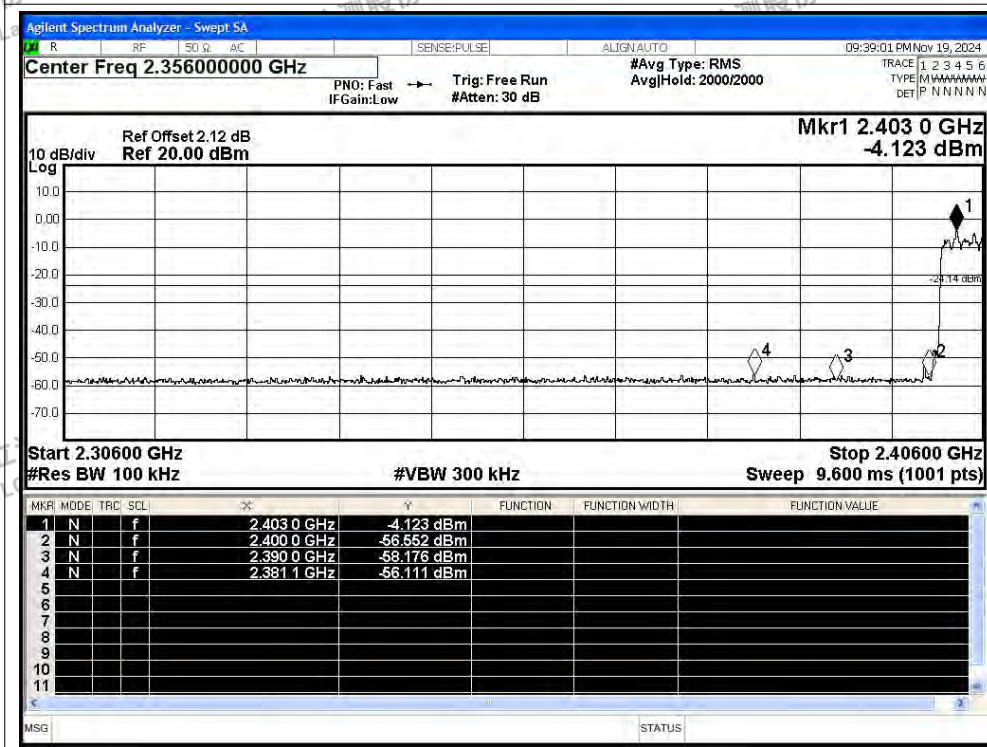




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



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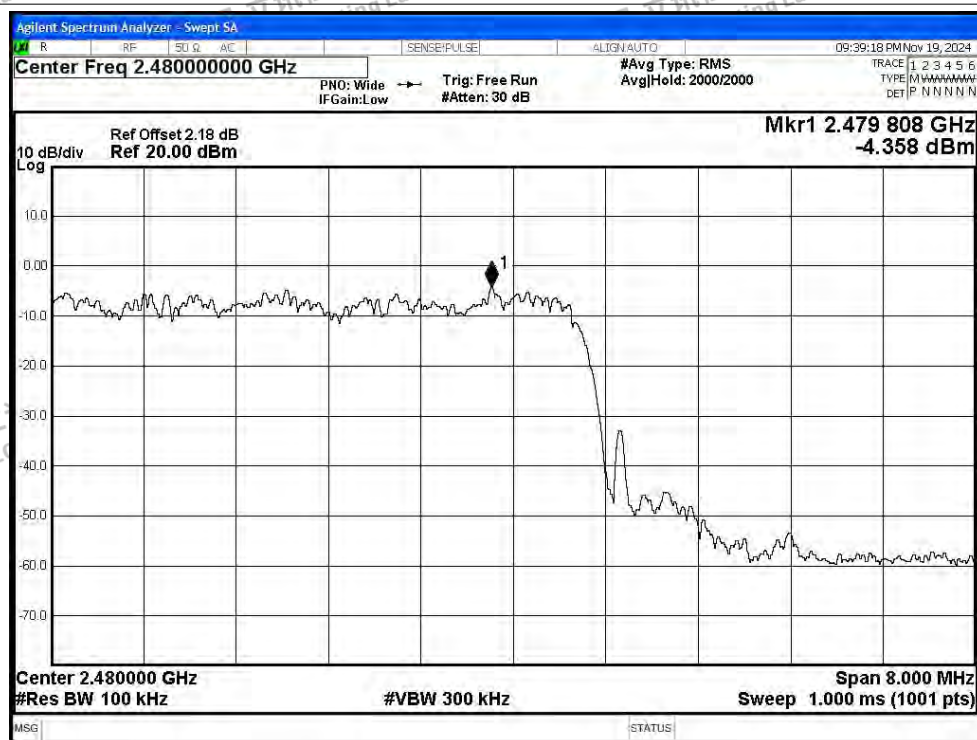
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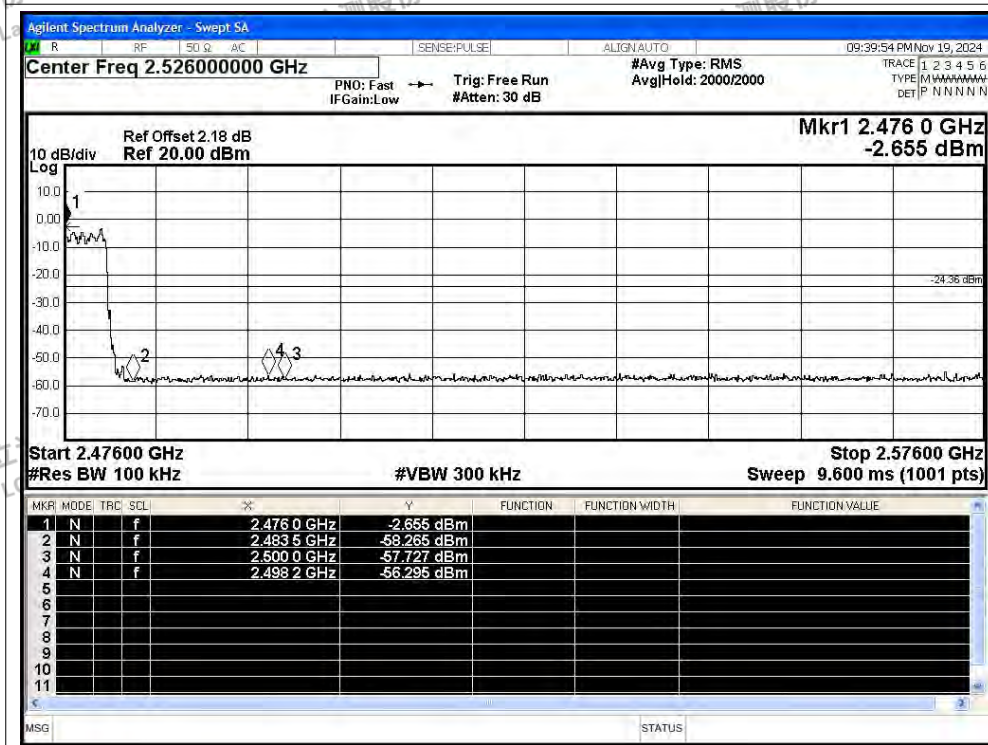
Scan code to check authenticity



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



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



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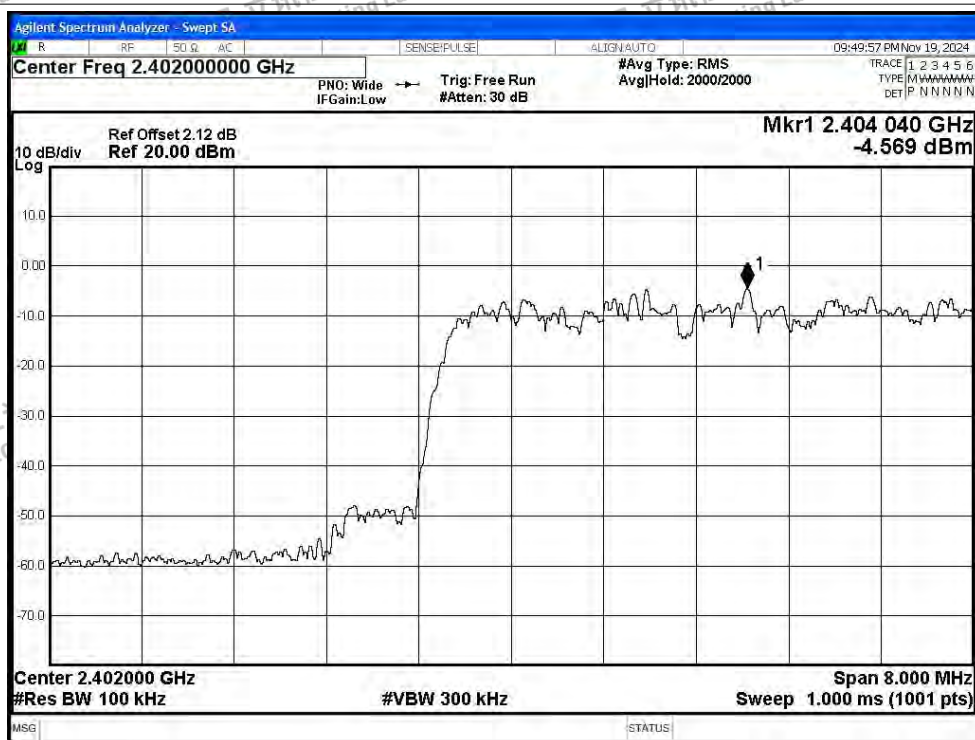
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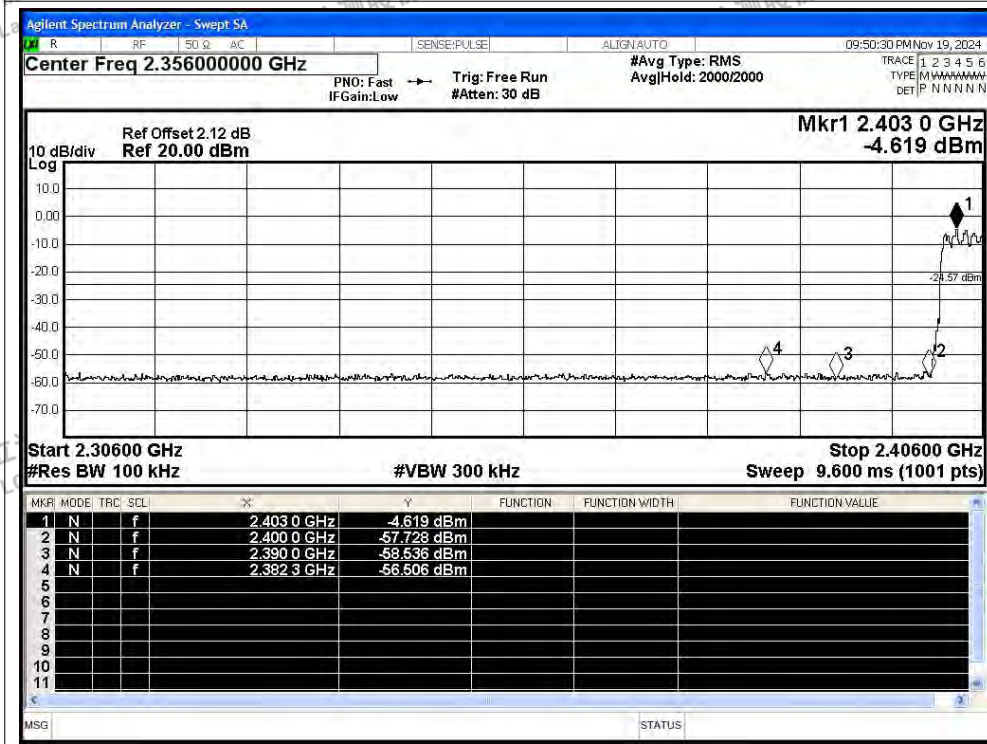
Scan code to check authenticity



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

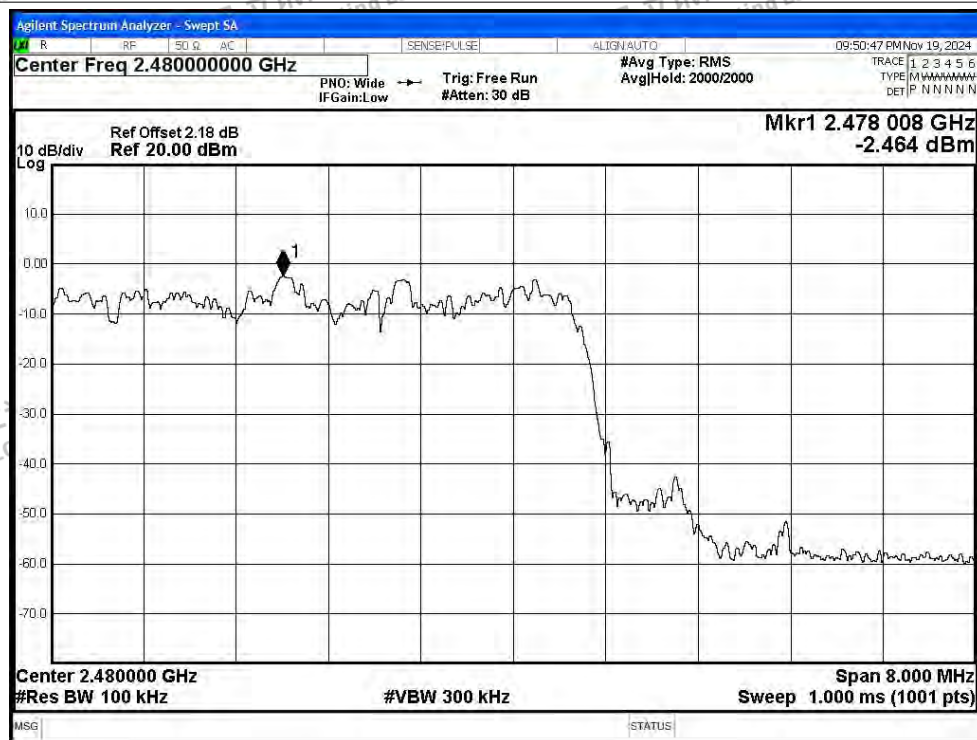


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

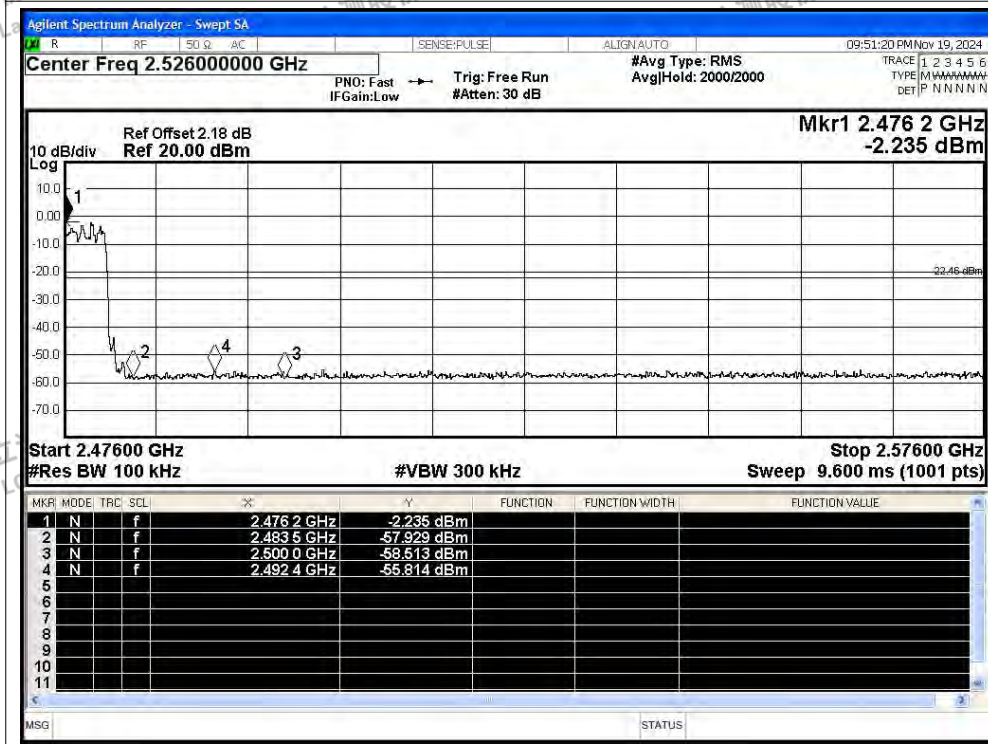




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-54.11	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.29	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.76	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.86	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.65	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.63	-20	Pass
NVNT	3-DH5	2402	Ant1	-45.97	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.96	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.17	-20	Pass



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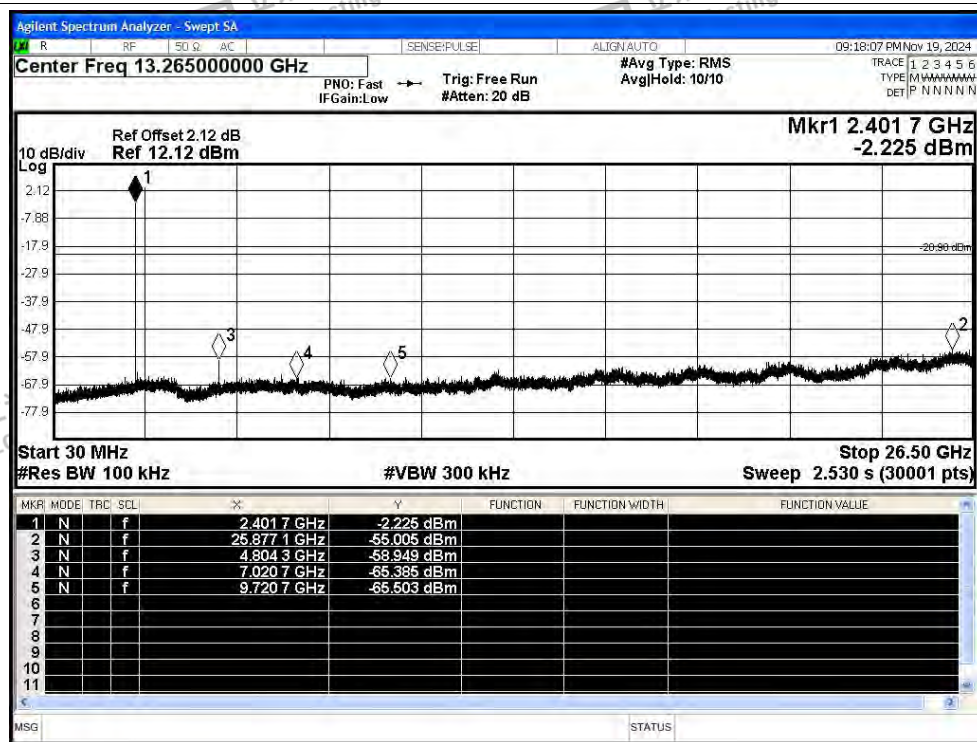


Test Graphs

Tx: Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx: Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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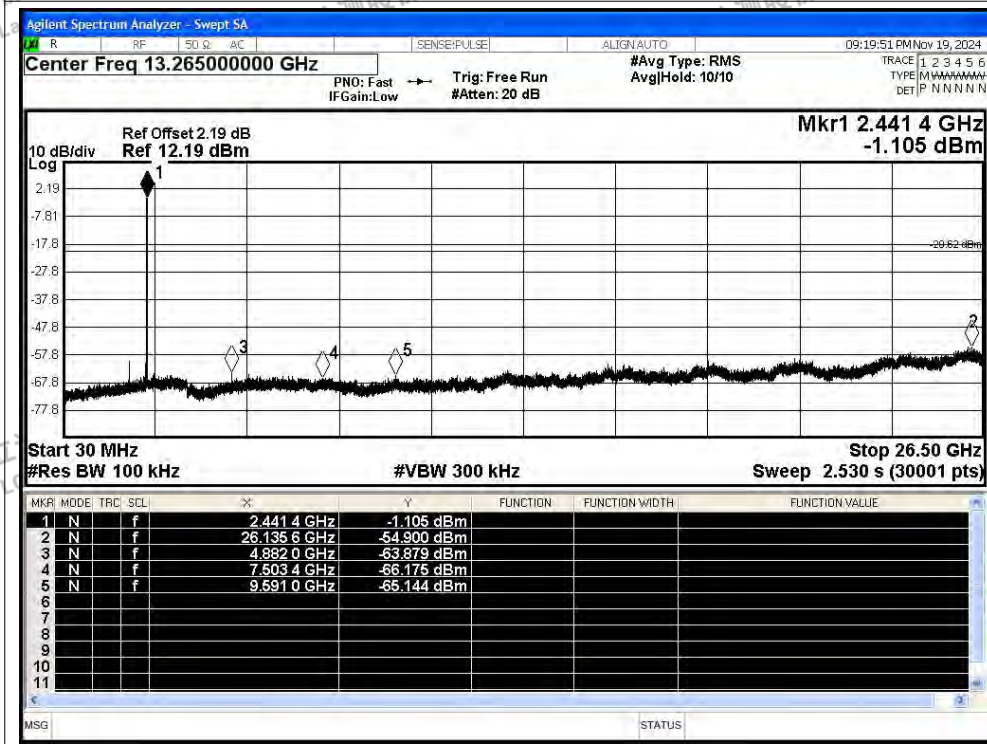
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

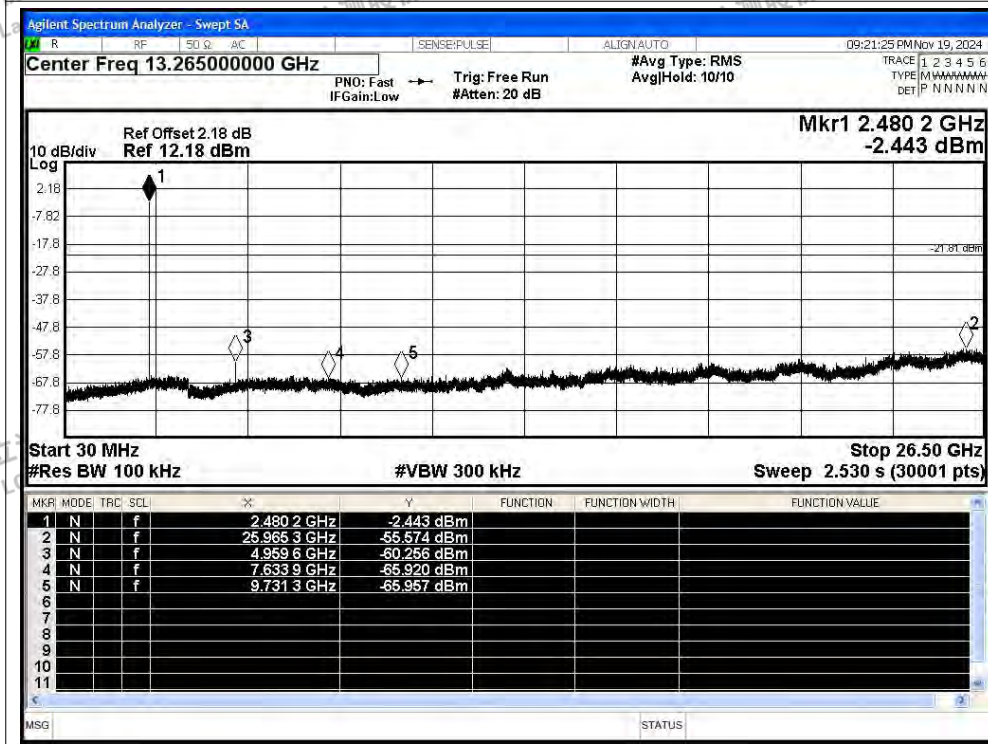




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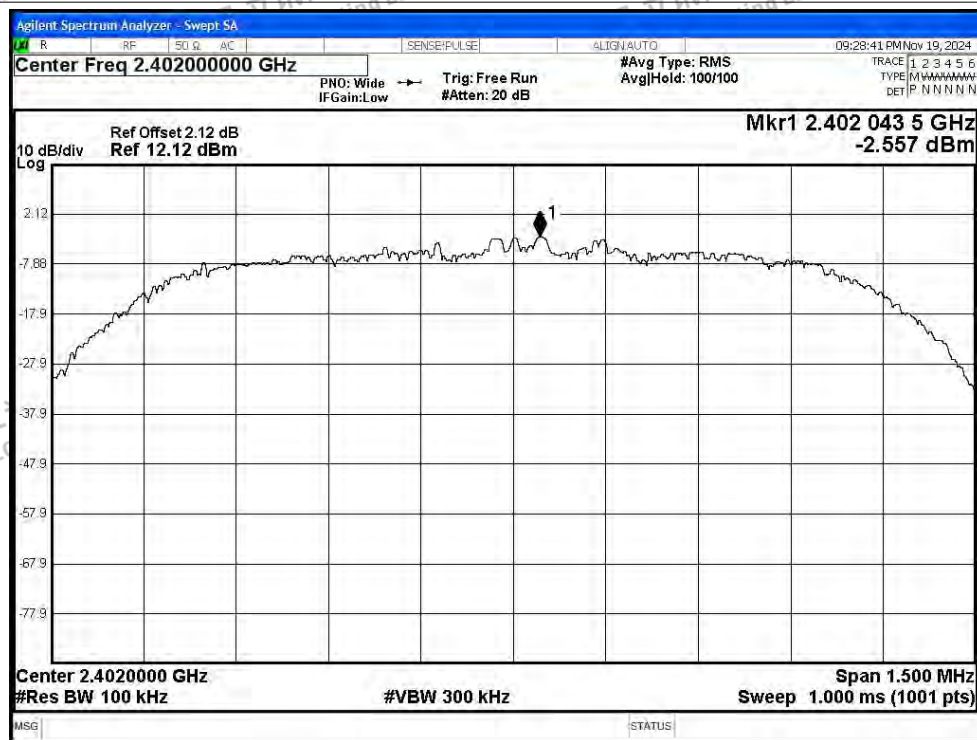


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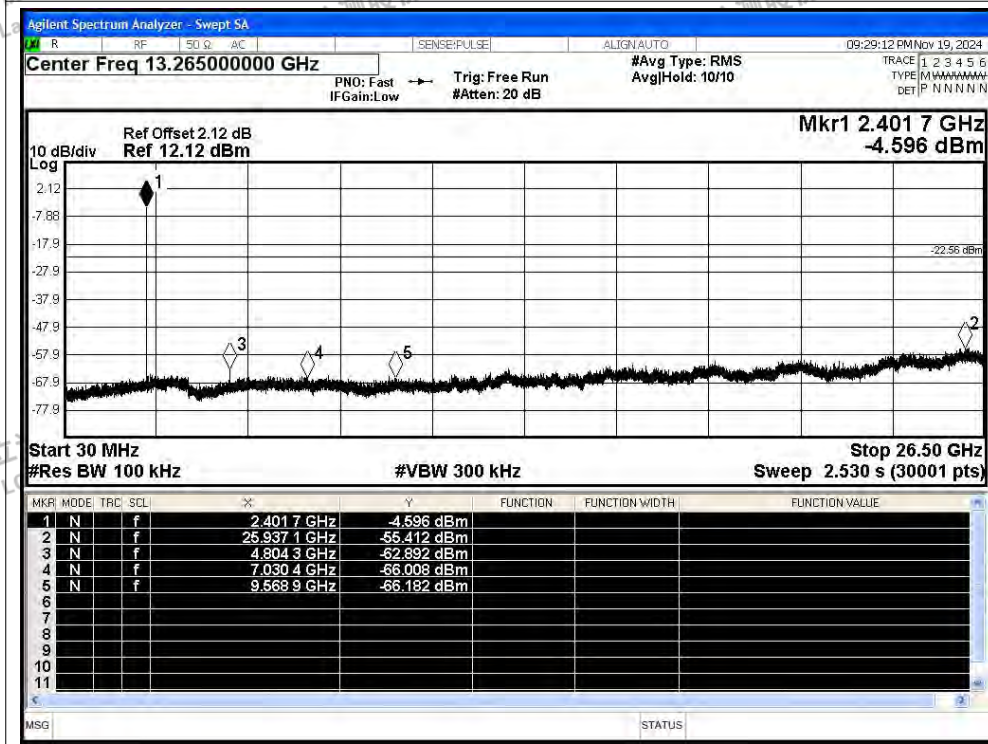




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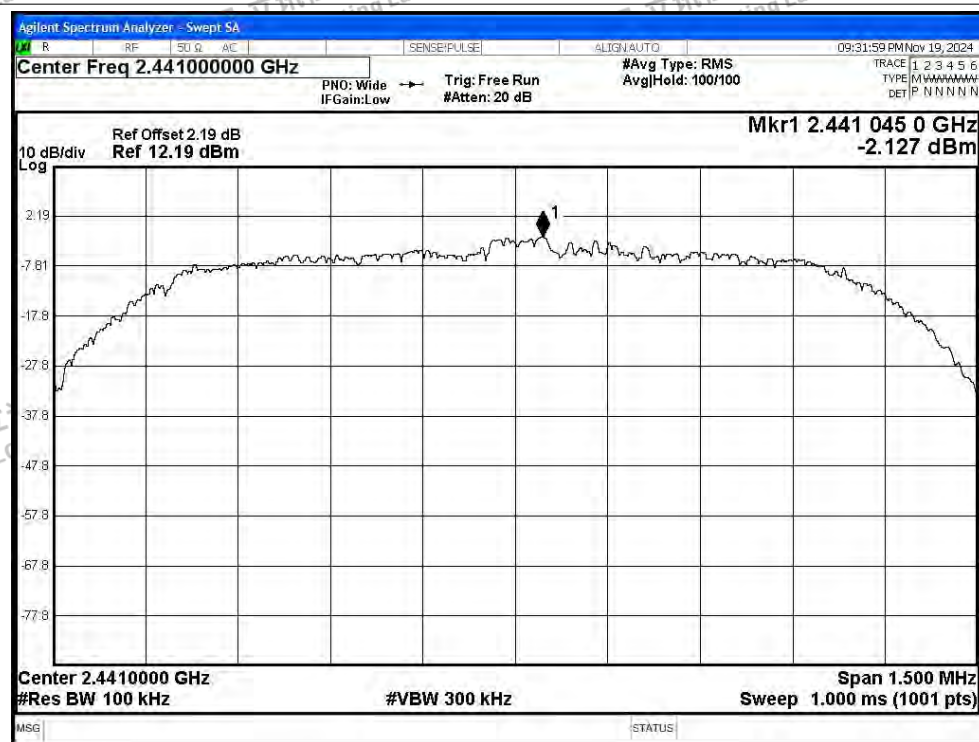


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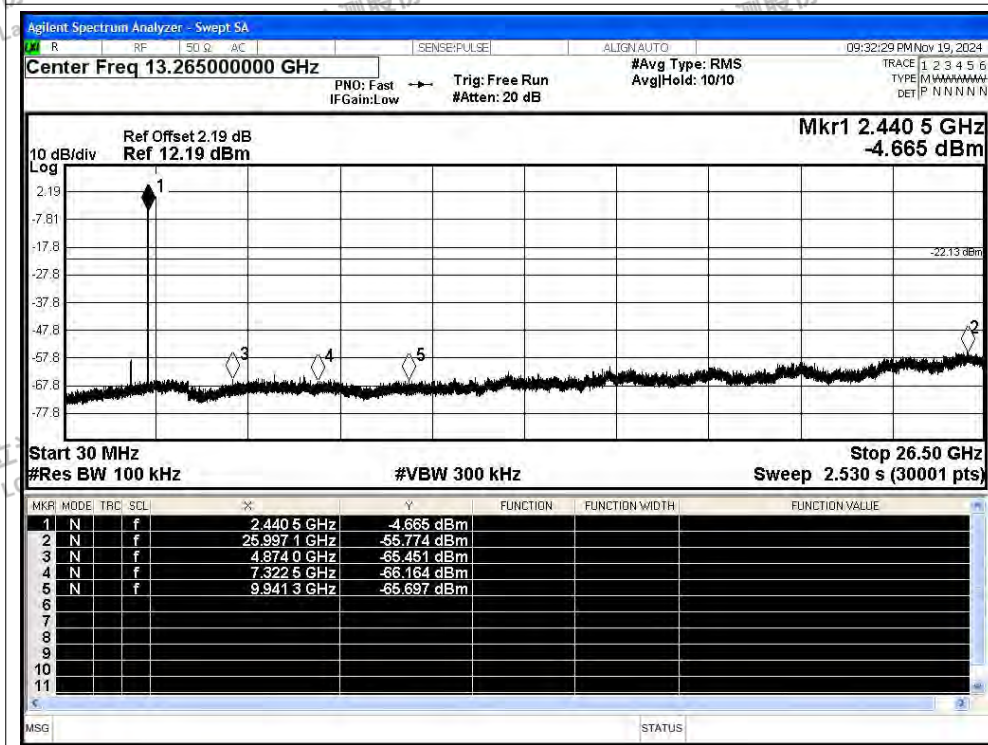




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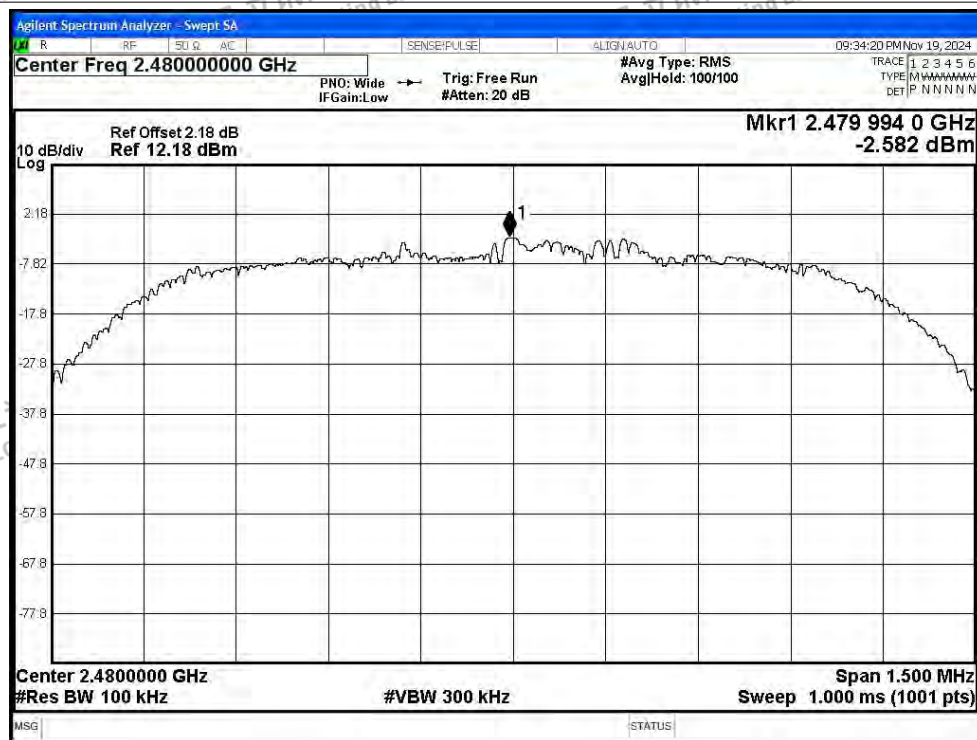


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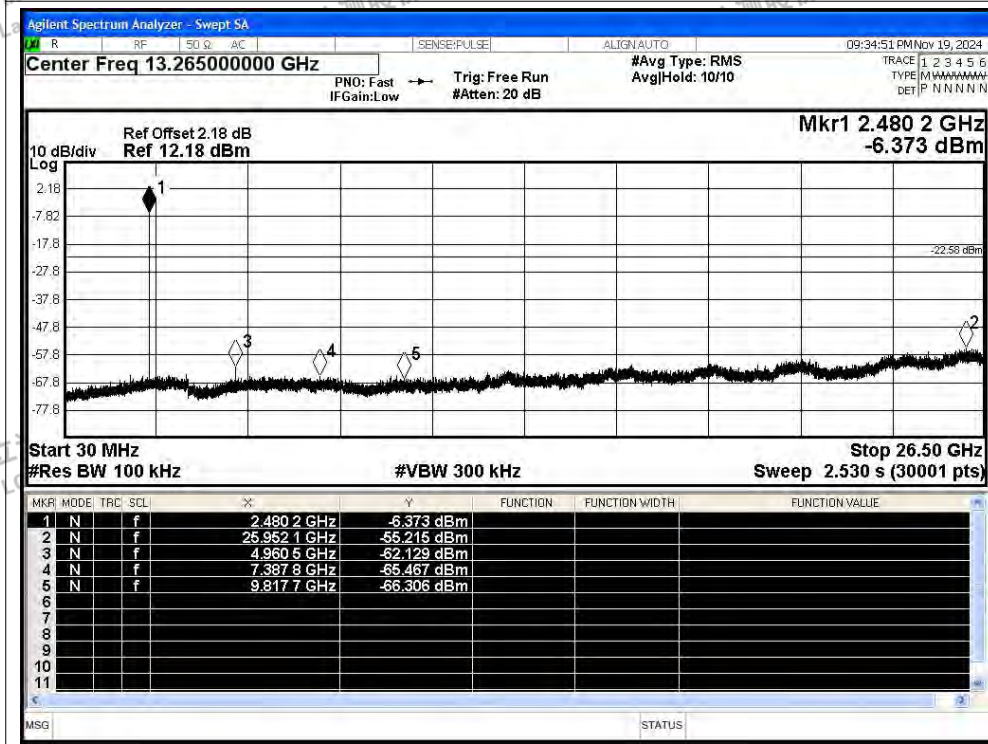




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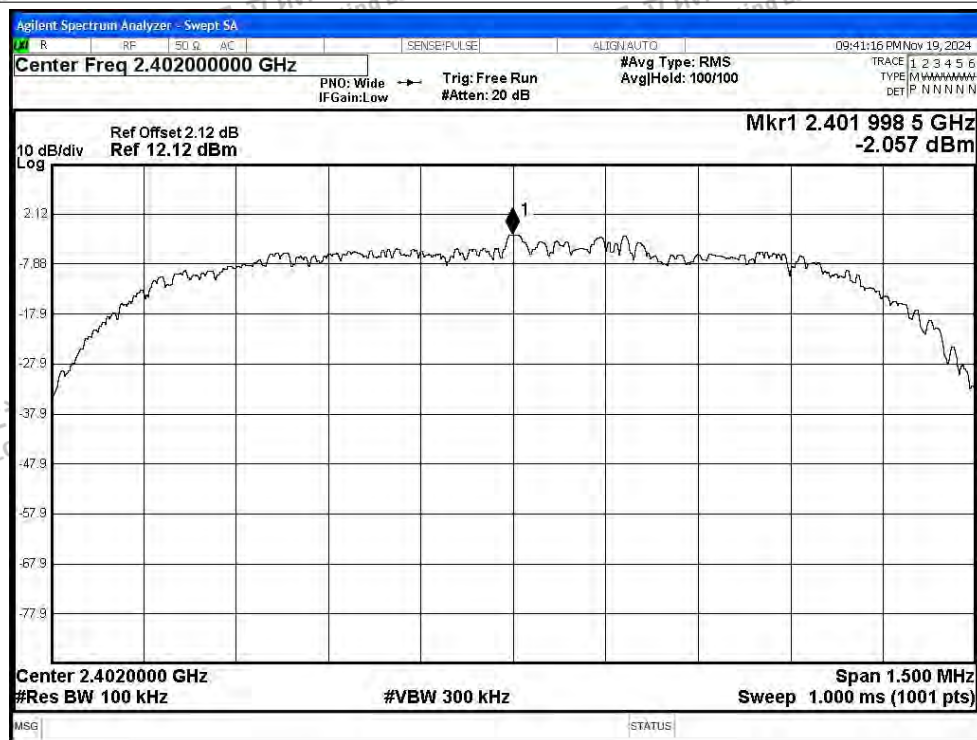


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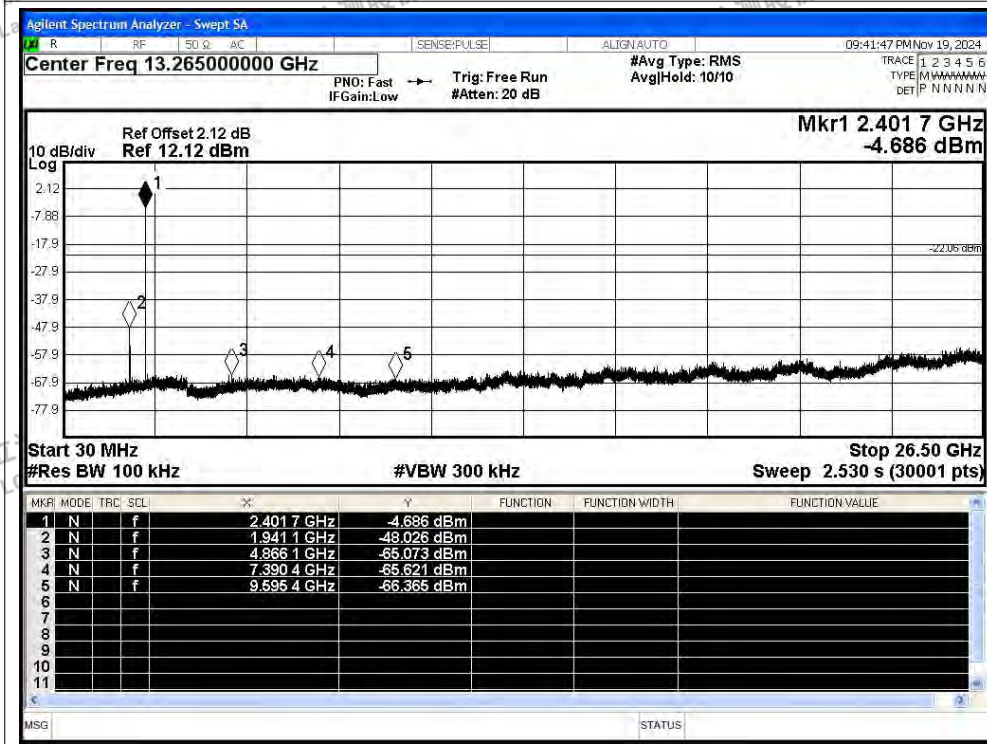




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

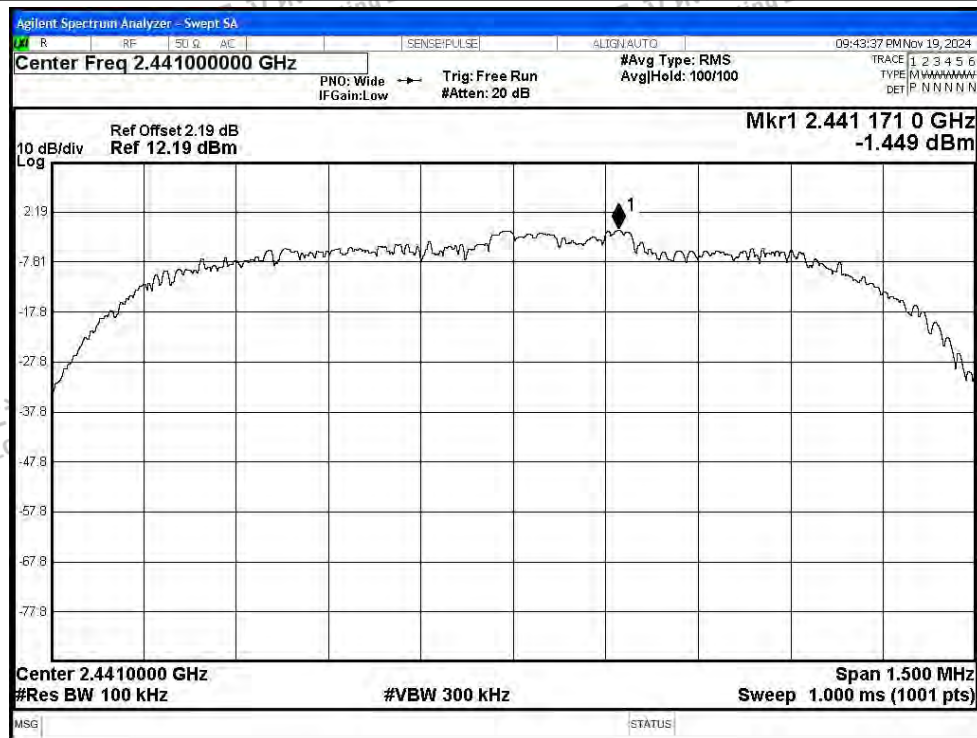


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

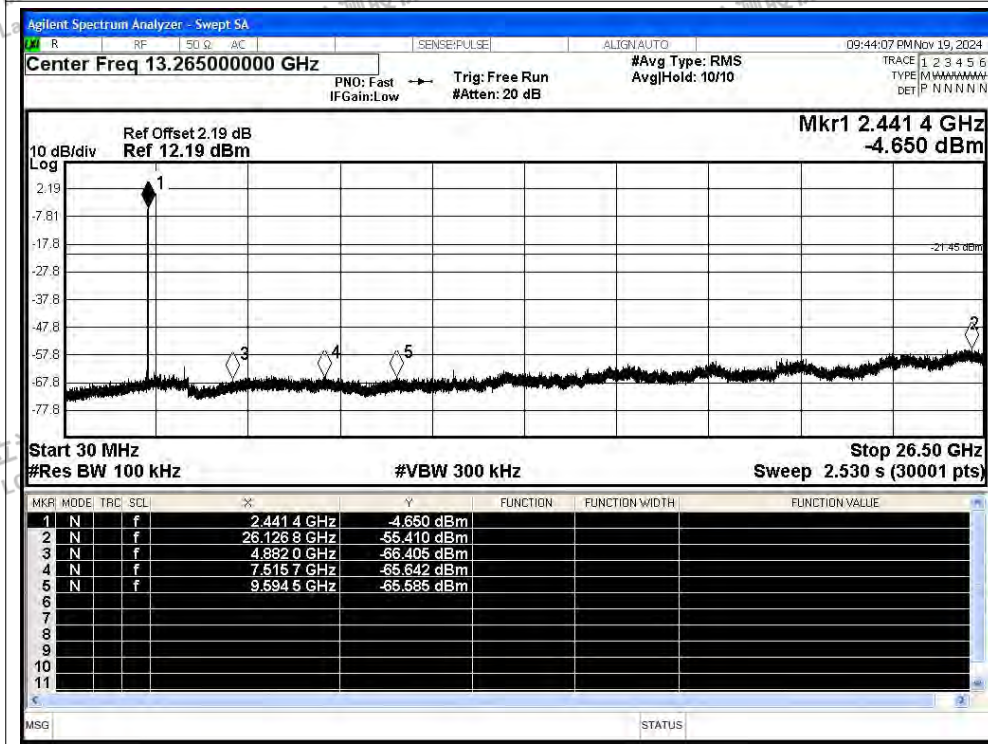




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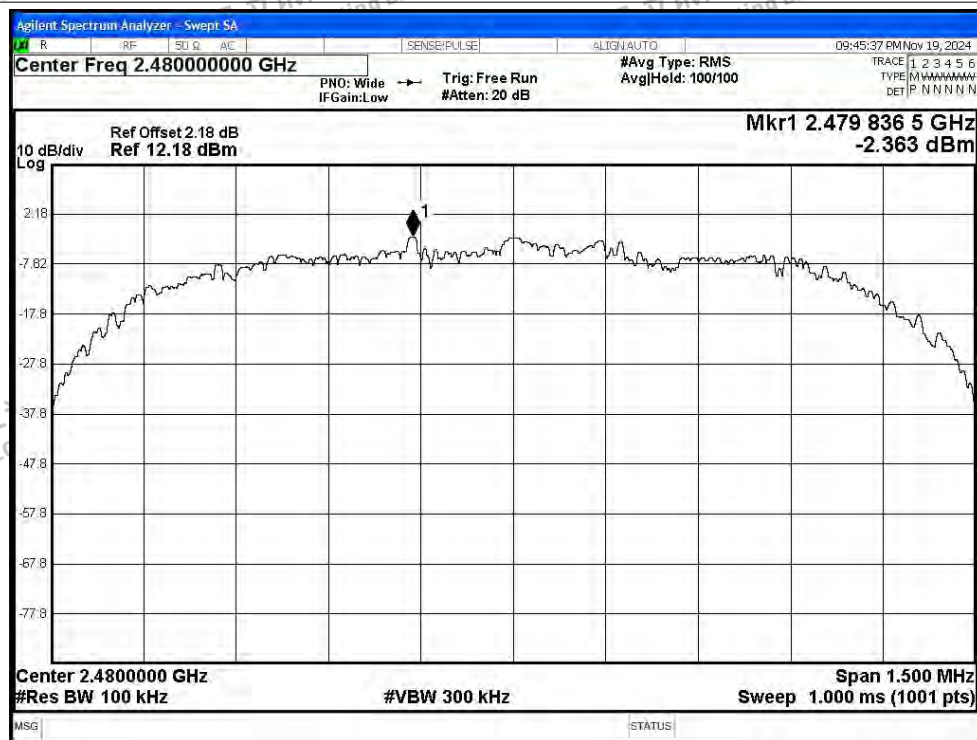


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

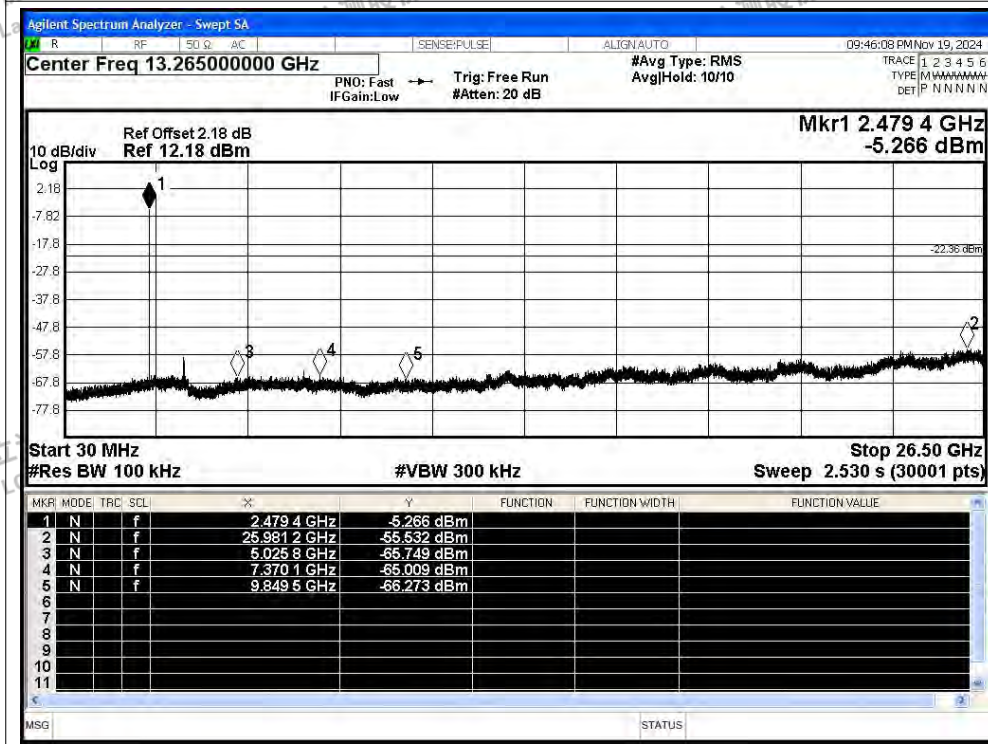




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

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

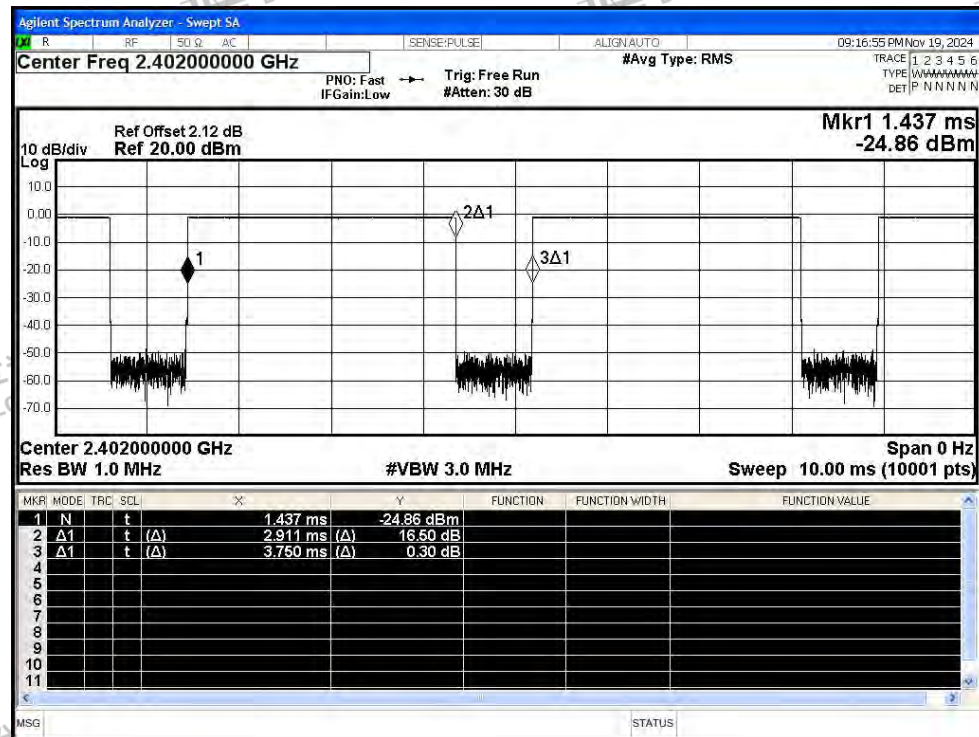


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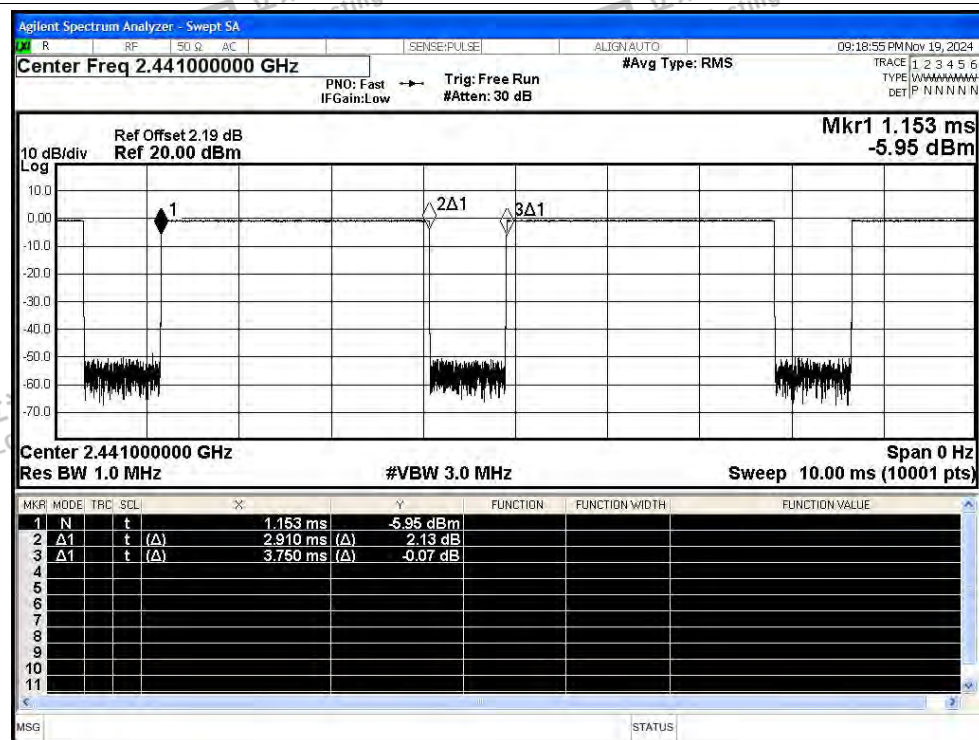


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

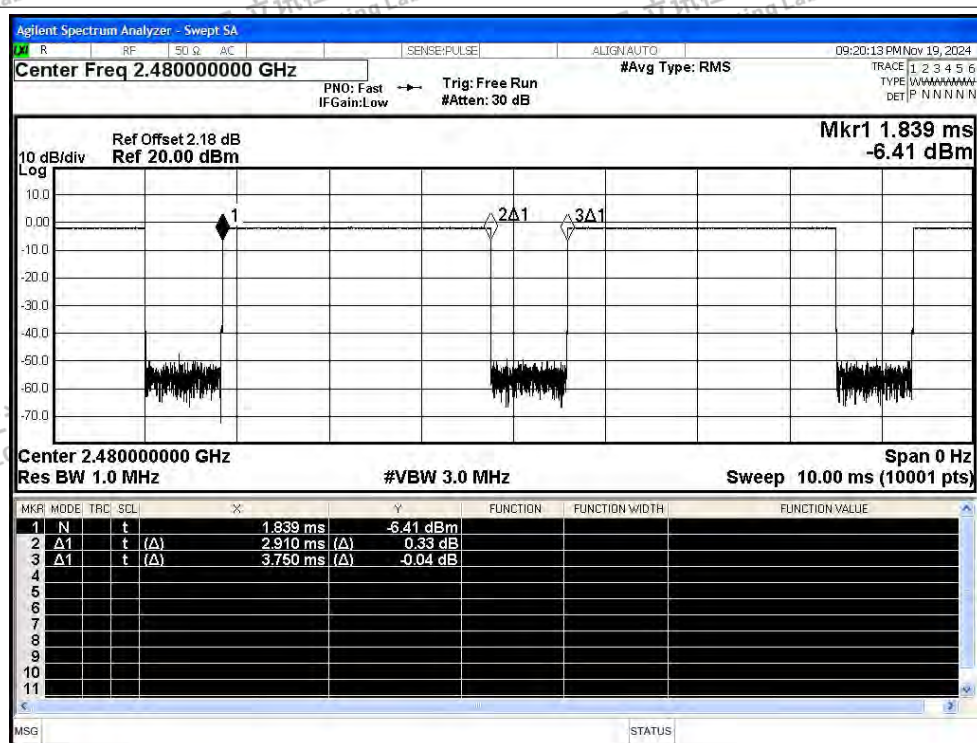
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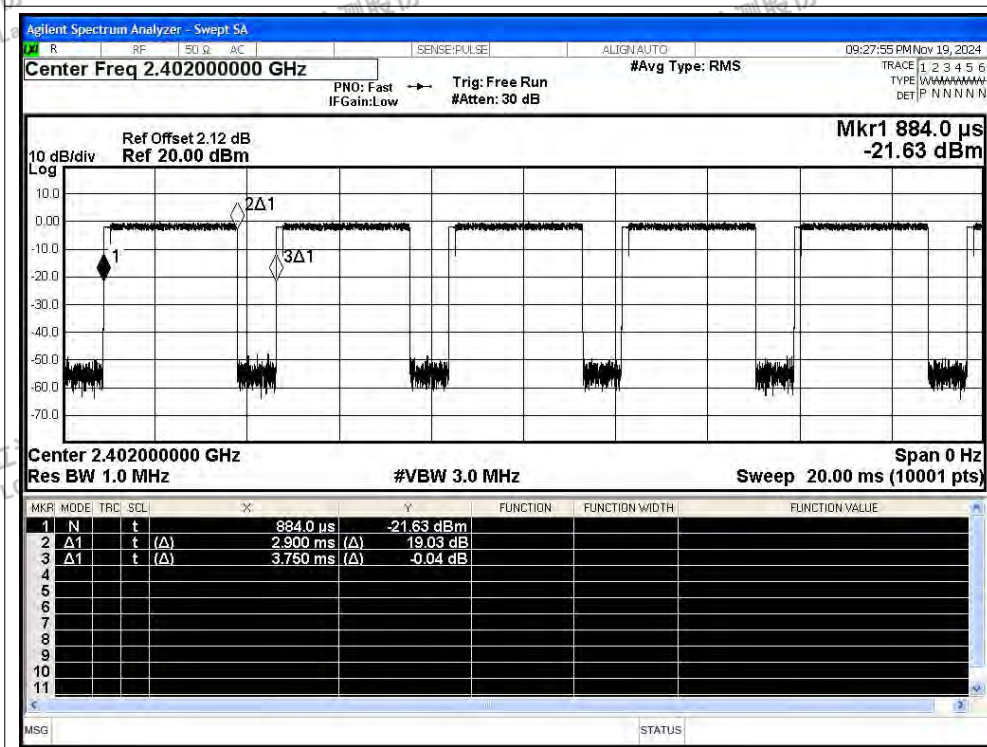
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1

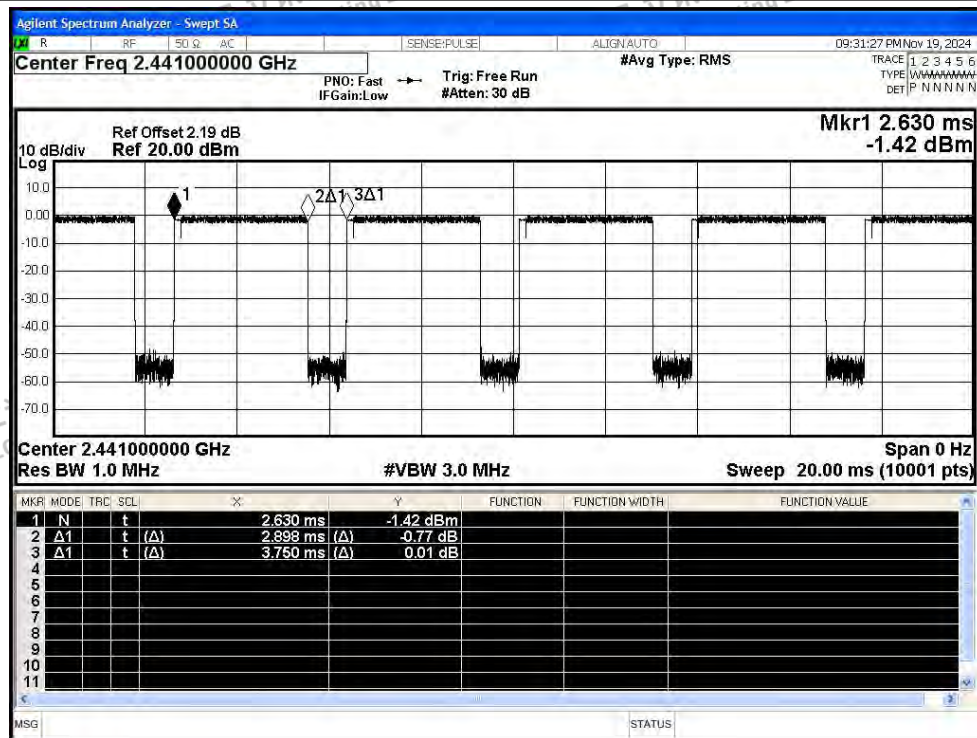


Duty Cycle NVNT 2-DH5 2402MHz Ant1

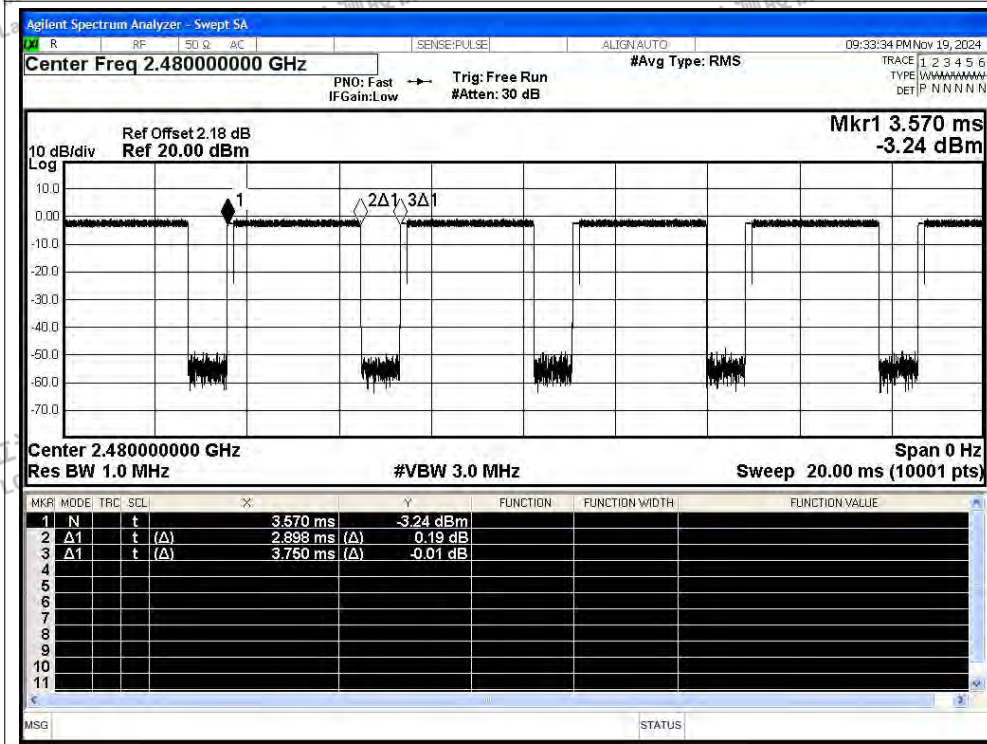




Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



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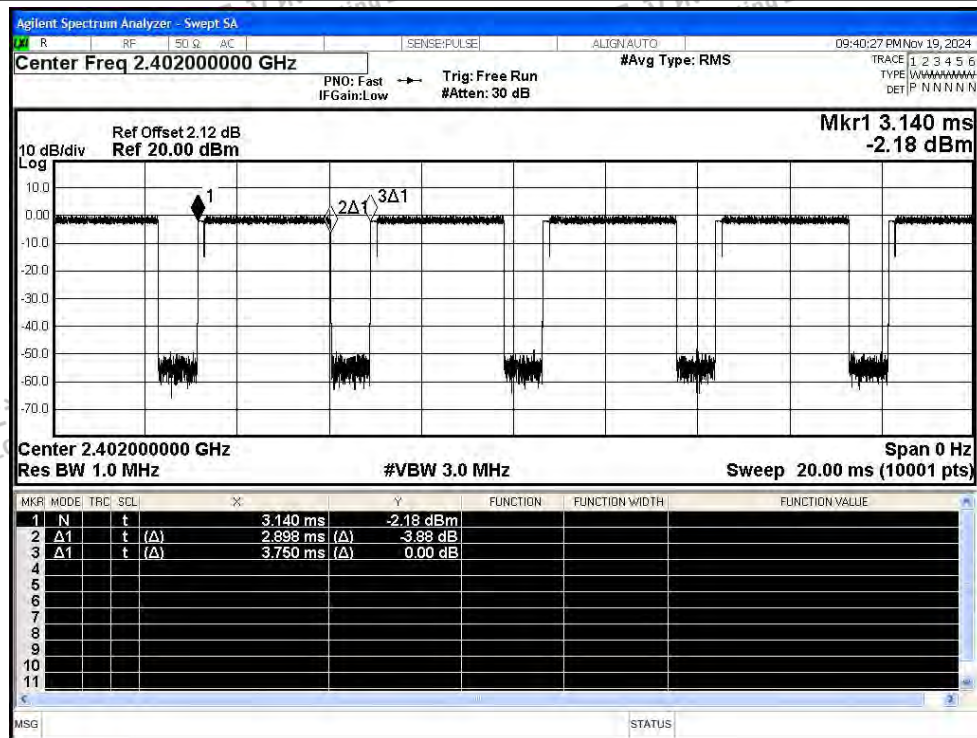
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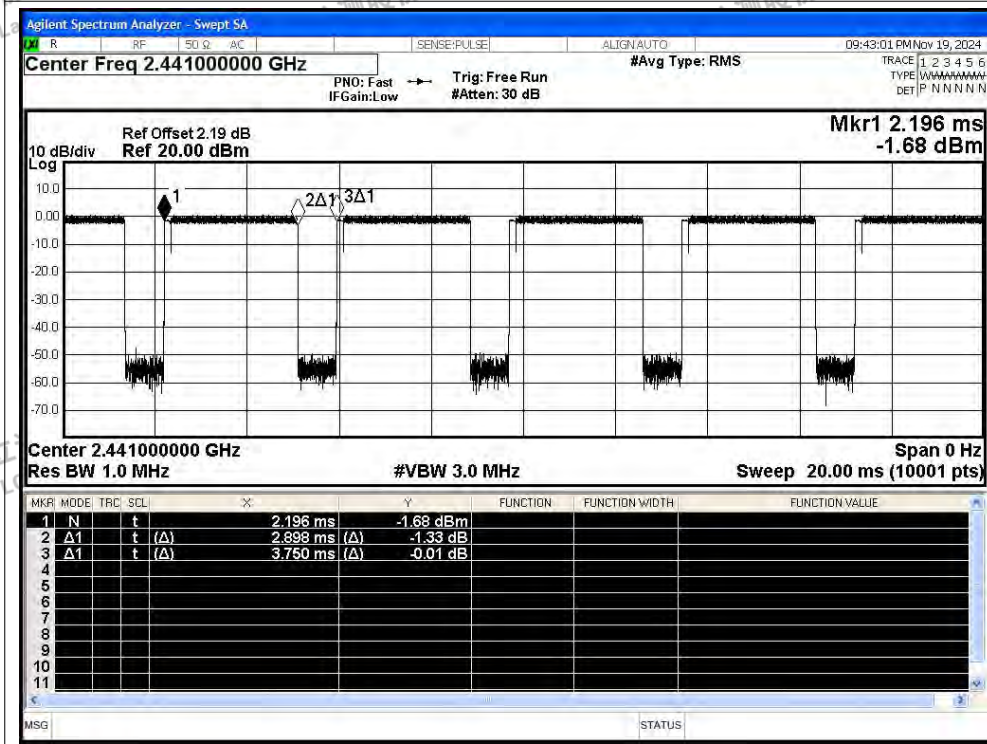
Scan code to check authenticity



Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



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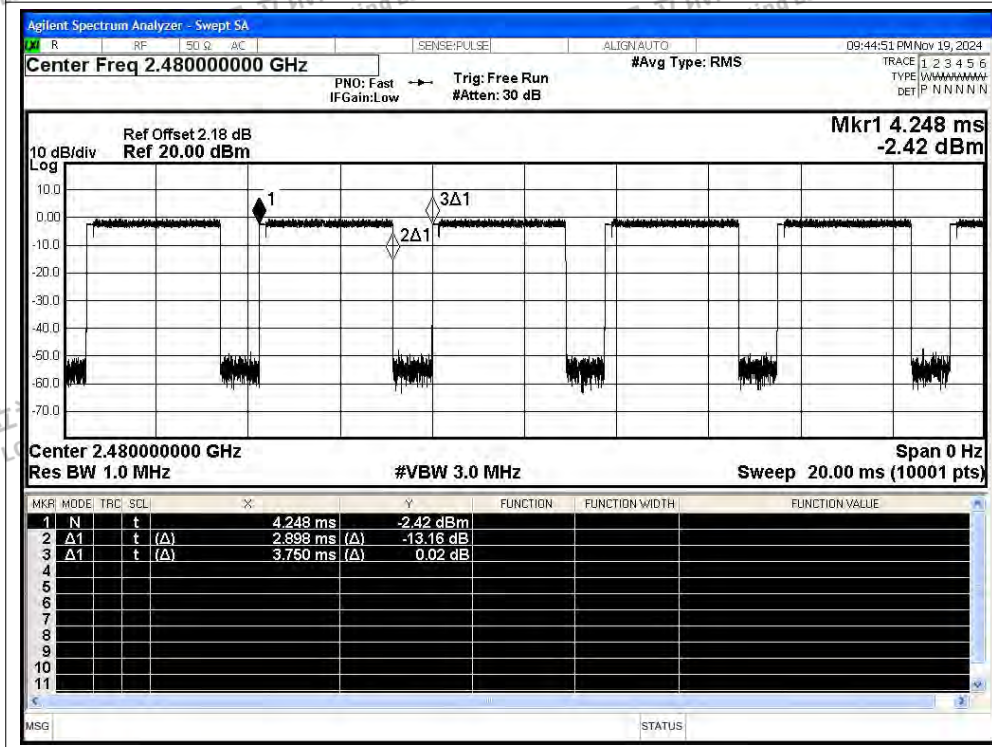
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Duty Cycle NVNT 3-DH5 2480MHz Ant1





A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.11	2.01	-	46.16	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.28	2.01	1.1	40.09	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2348.784	-47.31	2.01	-	49.96	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2378.352	-57.51	2.01	1.1	40.86	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.39	2.01	-	46.88	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.64	2.01	1.1	39.73	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.03	2.01	-	48.24	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.59	2.01	1.1	40.78	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.928	-46.68	2.01	-	50.59	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2489.32	-56.96	2.01	1.1	41.41	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.8	2.01	-	47.47	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.13	2.01	1.1	40.24	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.96	2.01	-	46.31	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.08	2.01	1.12	40.31	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2312.304	-47.58	2.01	-	49.69	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.336	-57.57	2.01	1.12	40.82	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.31	2.01	-	46.96	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.15	2.01	1.12	40.24	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.78	2.01	-	47.49	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.77	2.01	1.12	40.62	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2488.504	-46.94	2.01	-	50.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.04	-56.89	2.01	1.12	41.50	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.88	2.01	-	46.39	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.11	2.01	1.12	40.28	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.83	2.01	-	46.44	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.71	2.01	1.12	39.68	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2372.976	-47.5	2.01	-	49.77	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2365.872	-57.49	2.01	1.12	40.90	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.96	2.01	-	47.31	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.2	2.01	1.12	40.19	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.42	2.01	-	47.85	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58	2.01	1.12	40.39	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2493.16	-45.57	2.01	-	51.70	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.968	-57.12	2.01	1.12	41.27	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.26	2.01	-	47.01	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.96	2.01	1.12	39.43	Average	54	Pass

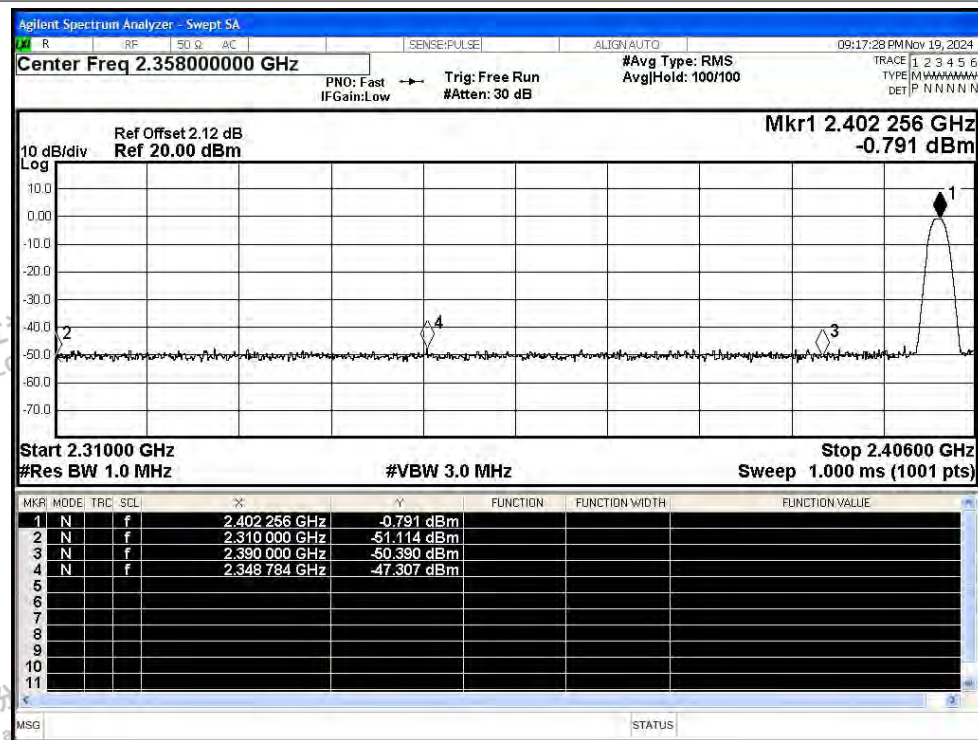


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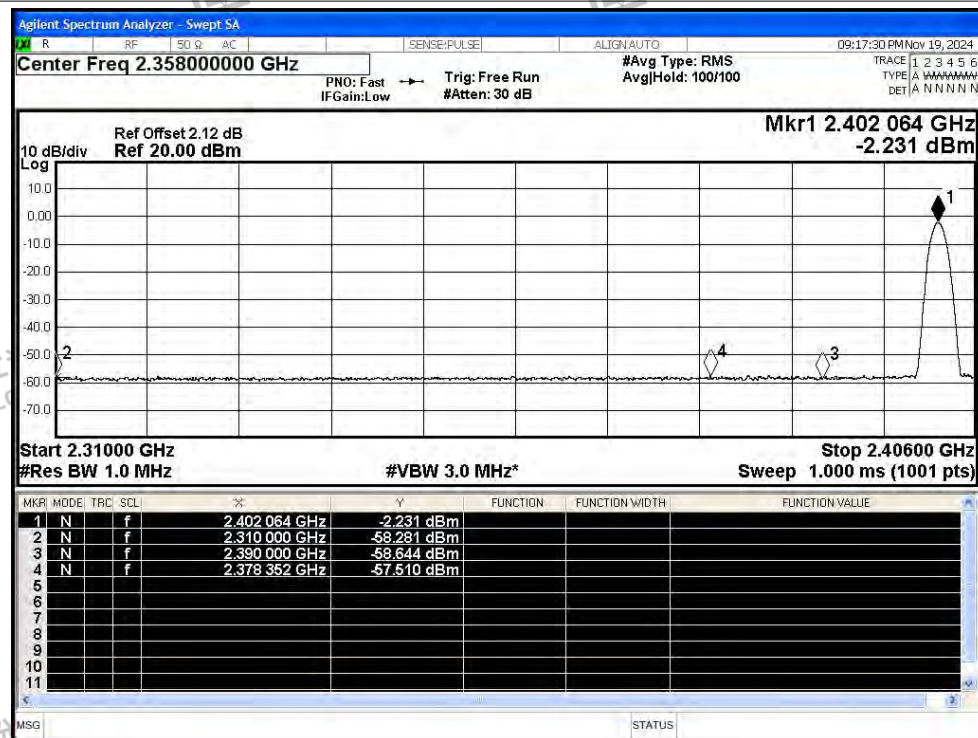


Test Graphs

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



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



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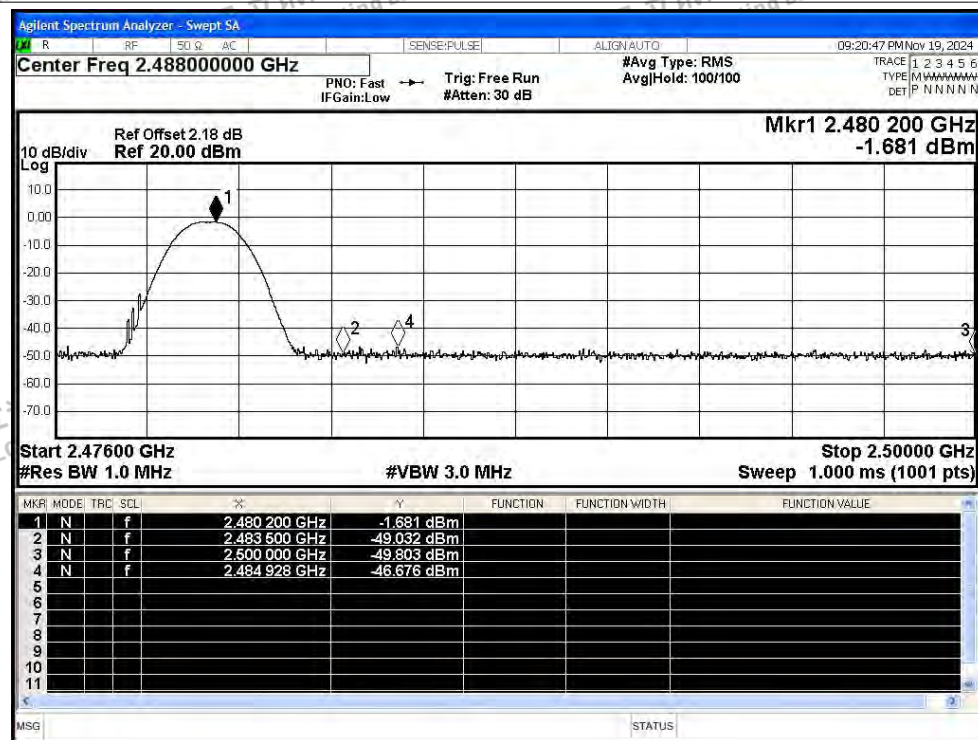
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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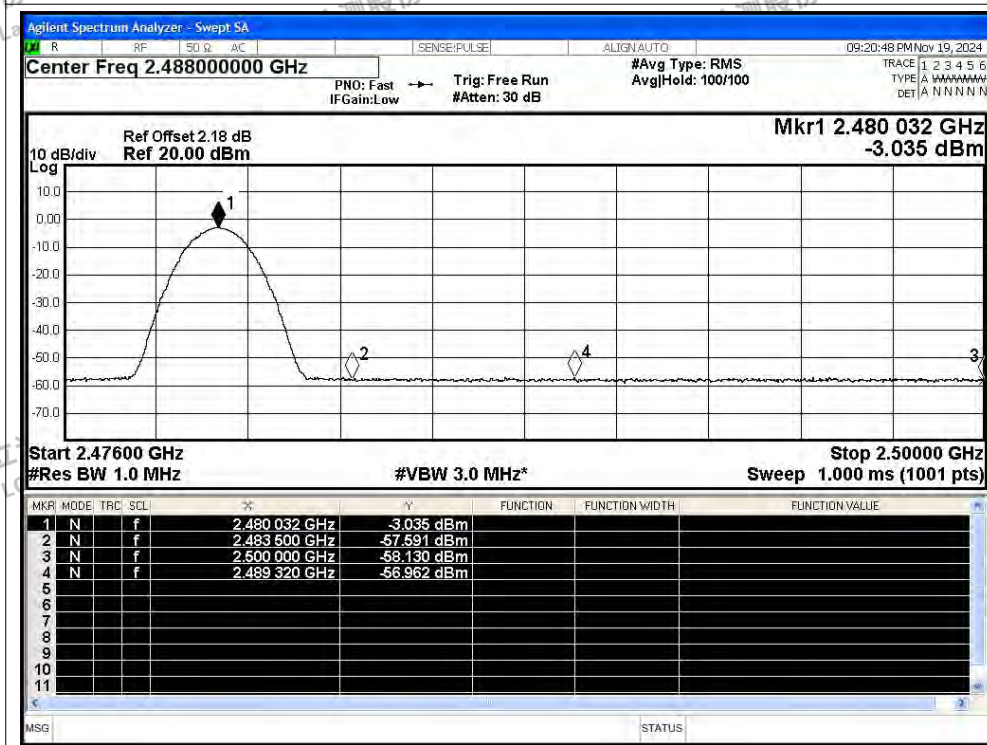
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

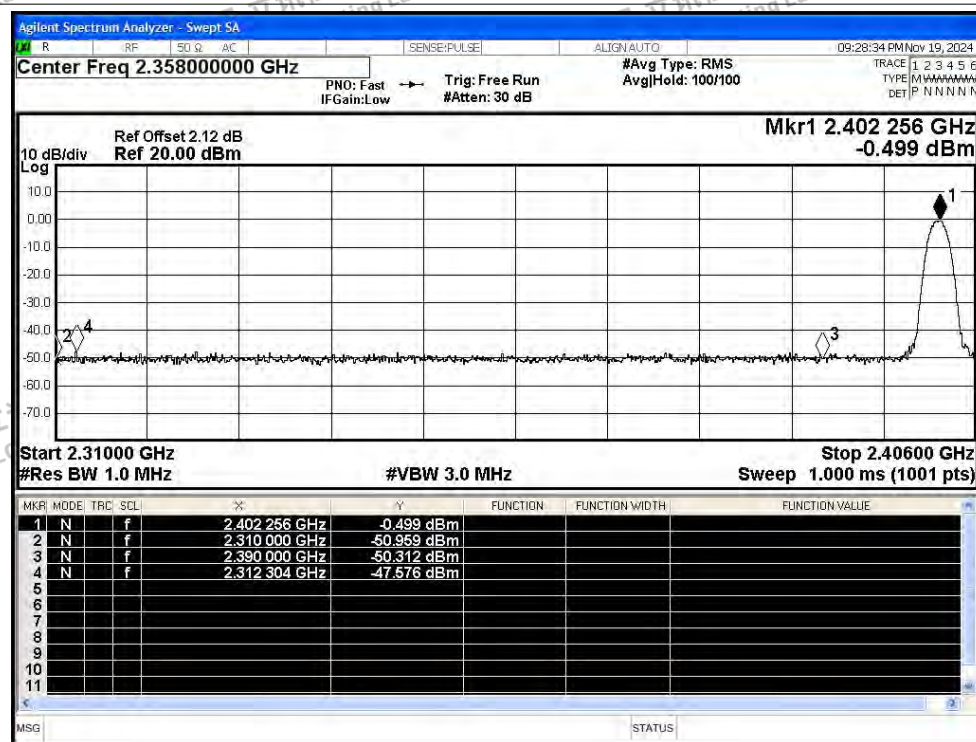


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

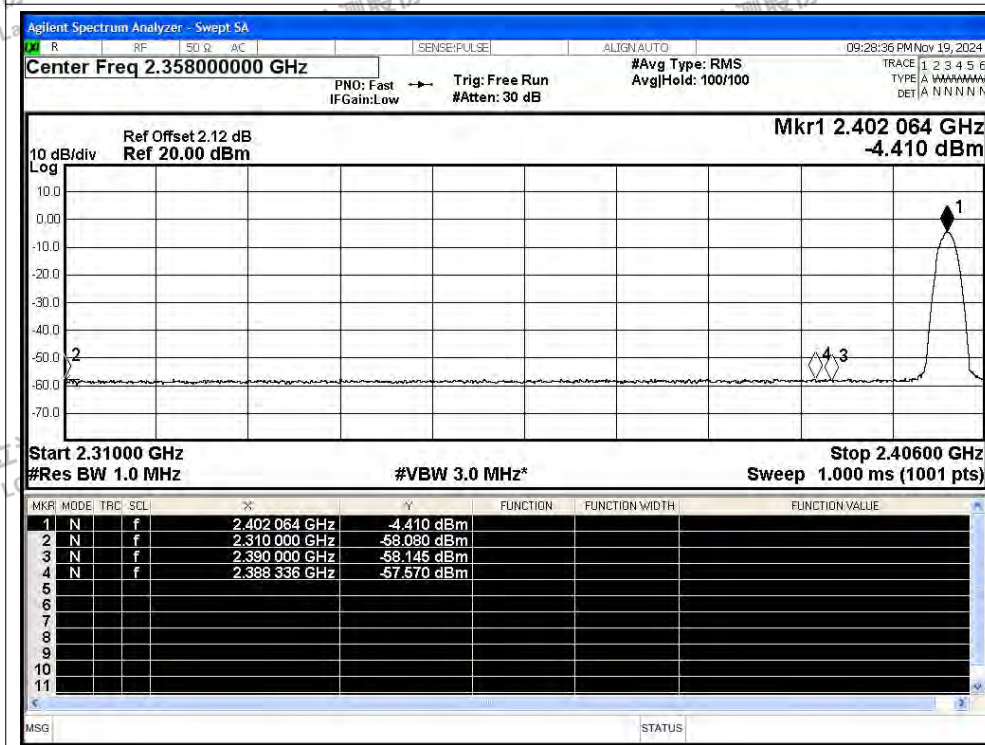




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

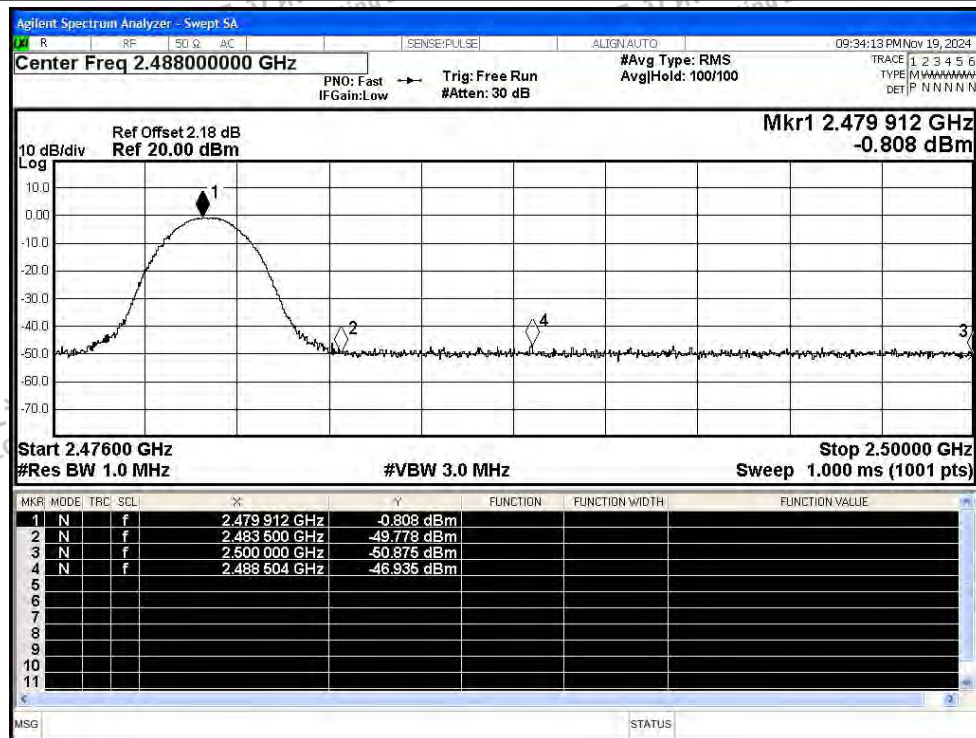
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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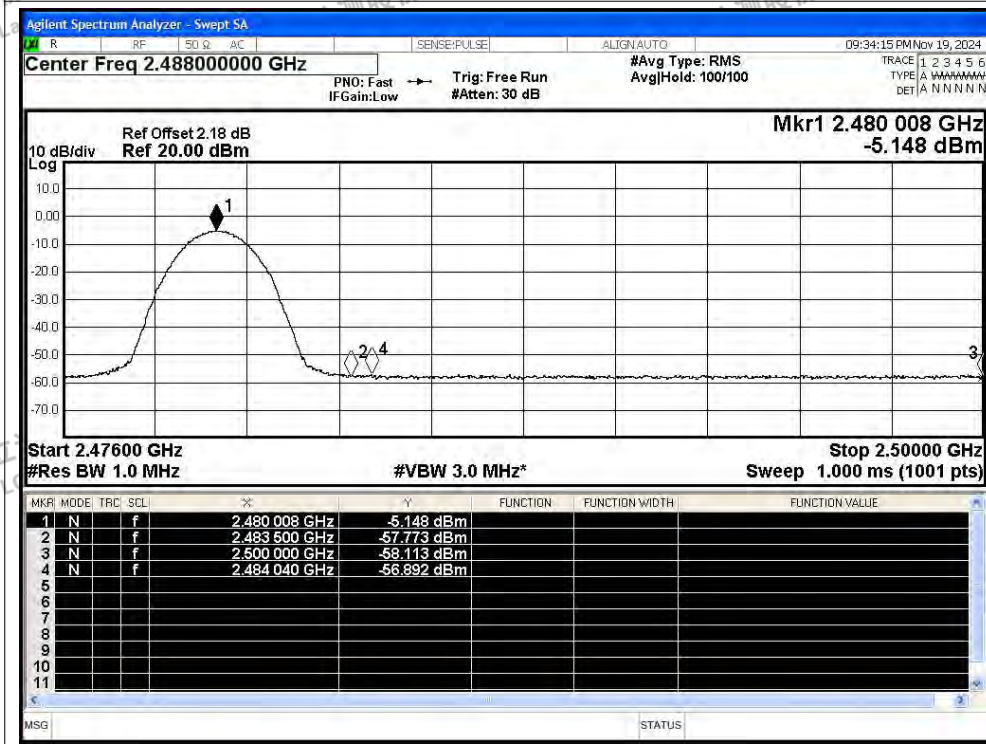
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

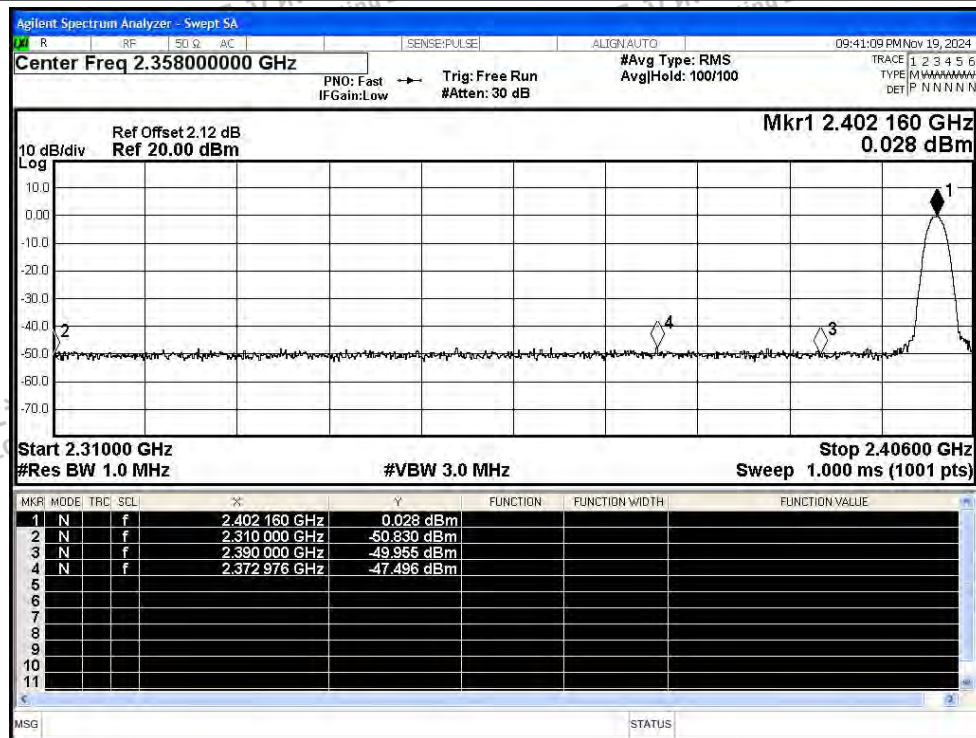


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

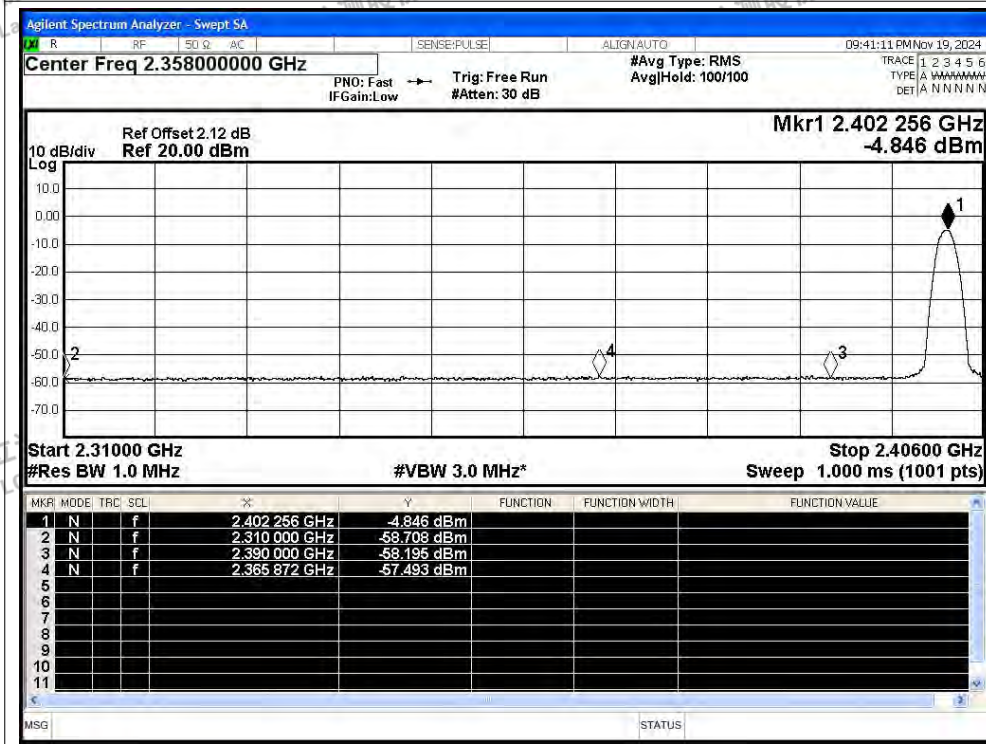




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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



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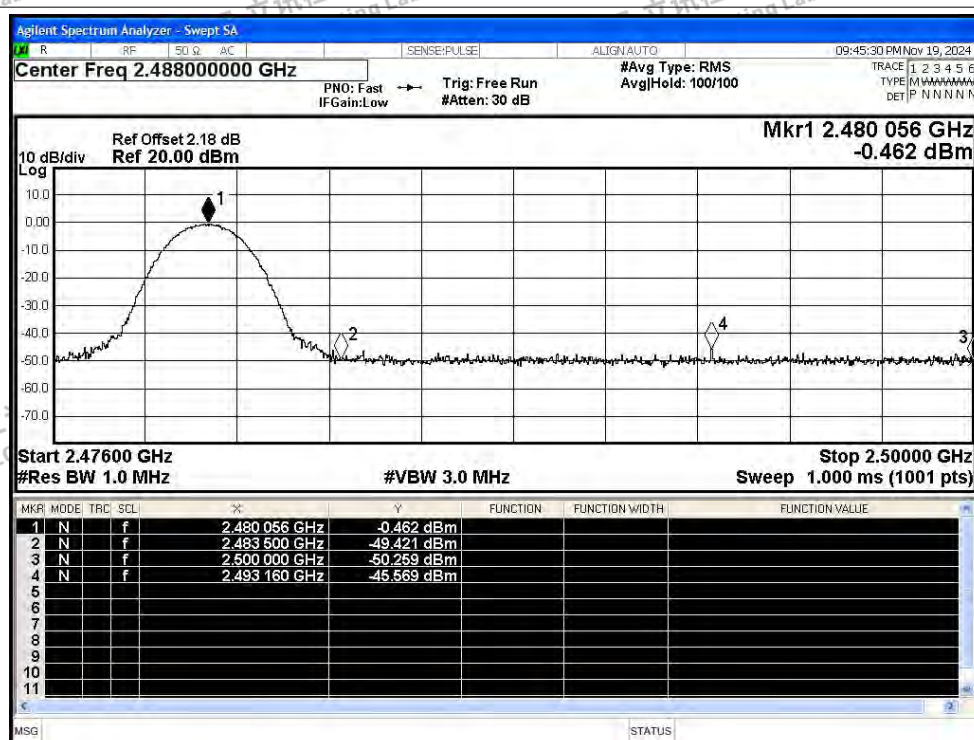
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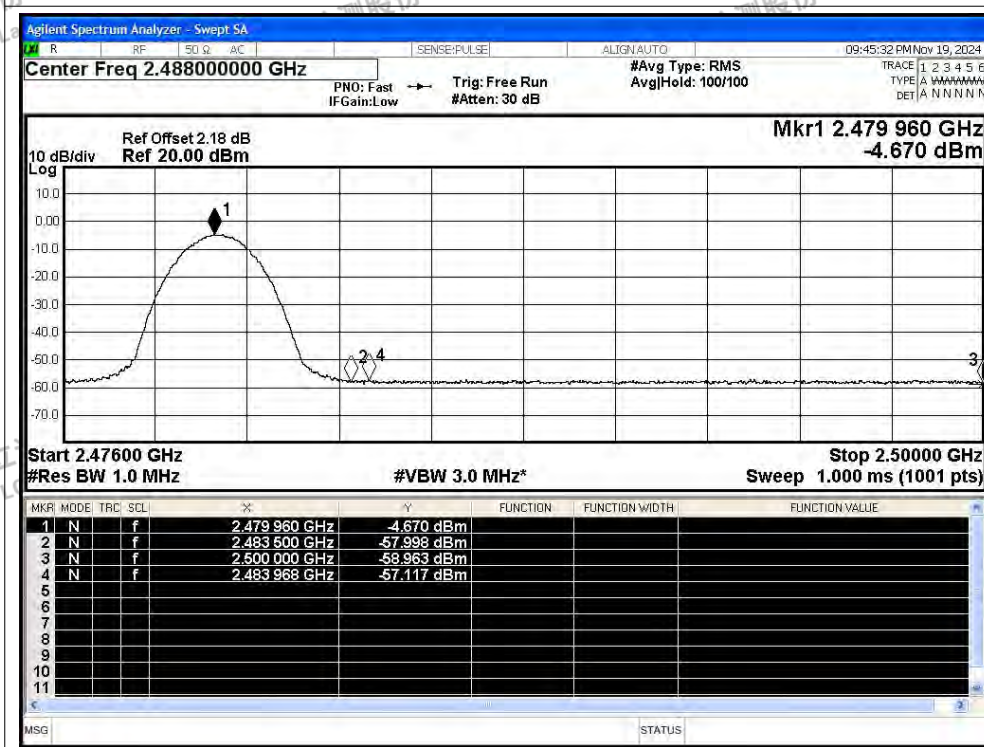
Scan code to check authenticity



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



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



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