



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Earbuds with charging case

Test Model: BTO200

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
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	0.941	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.952	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.965	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.283	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.273	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.286	N/A	Pass



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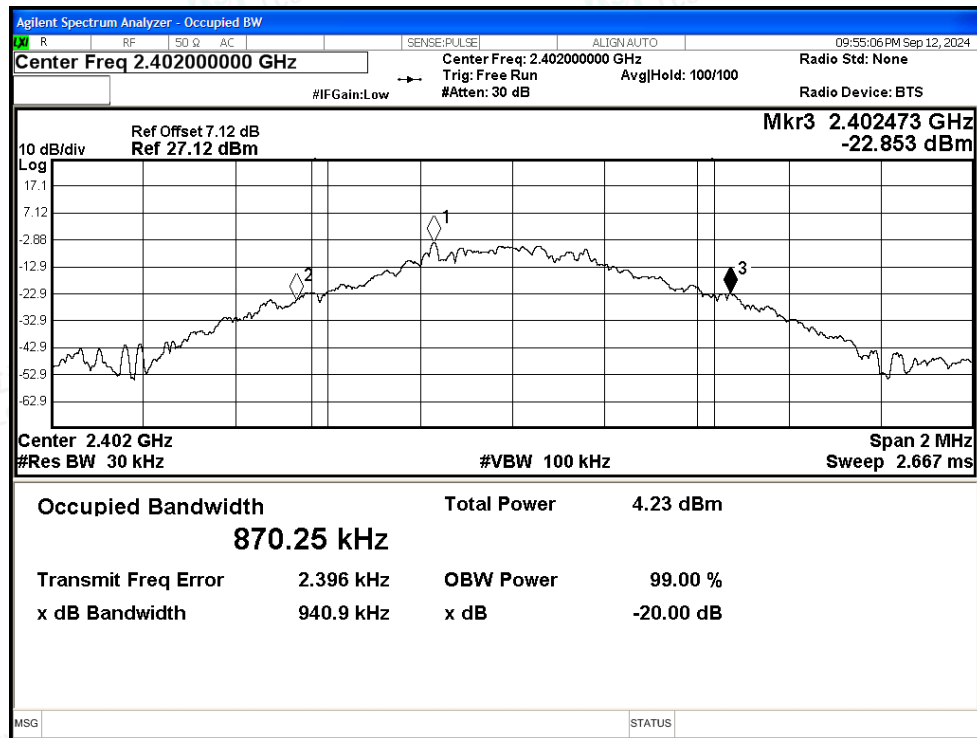
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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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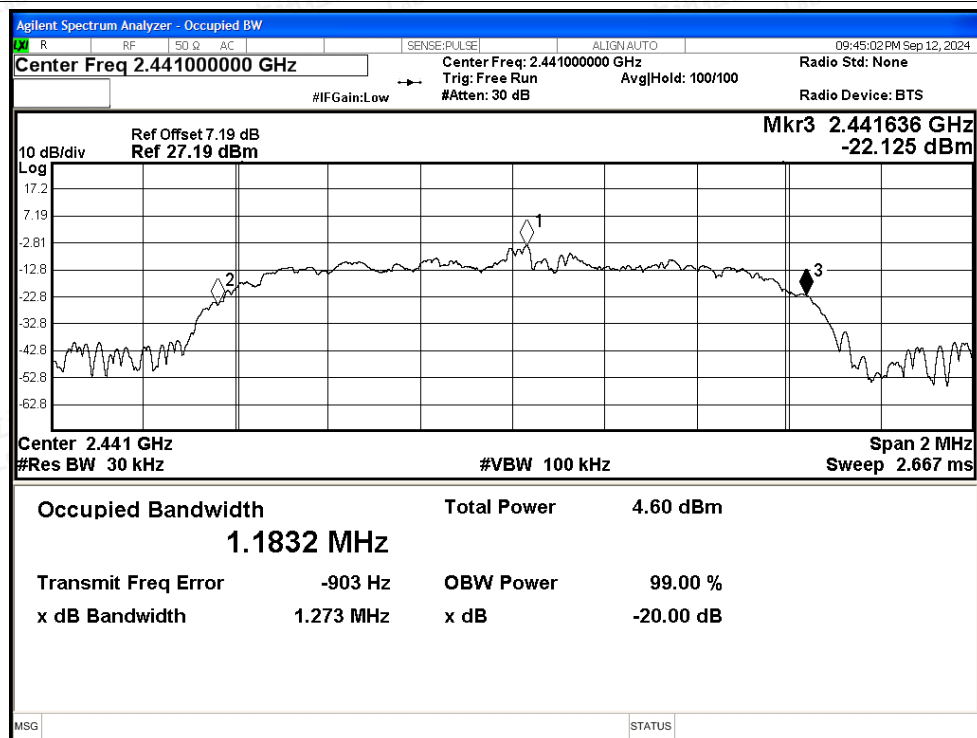
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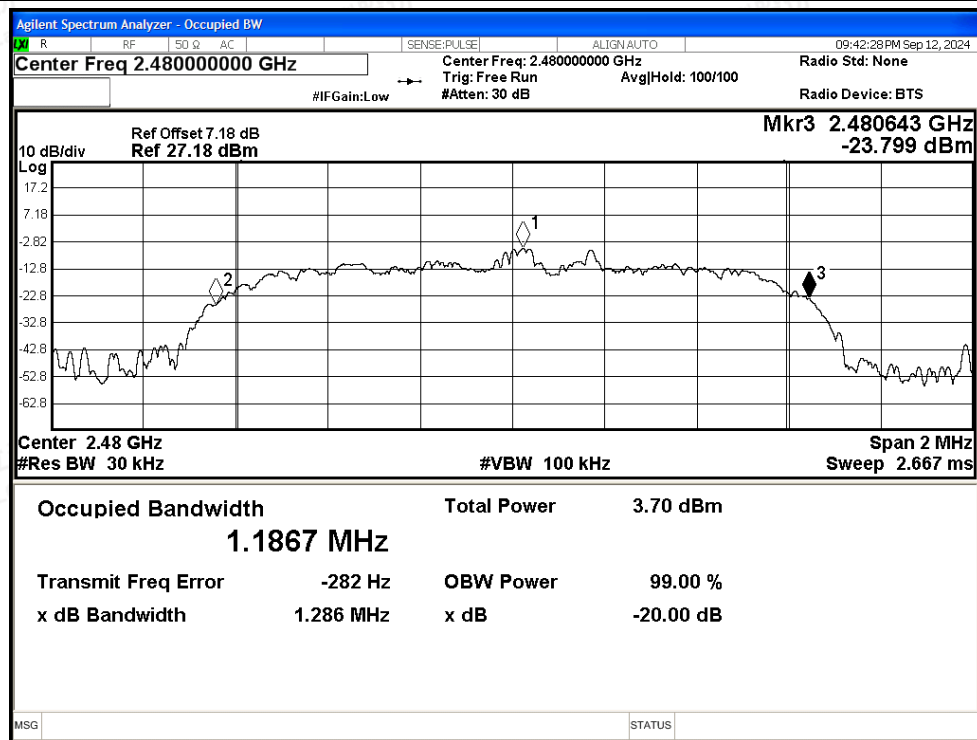
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.21	21	Pass
NVNT	1-DH5	2441	Ant1	0.79	21	Pass
NVNT	1-DH5	2480	Ant1	-0.23	21	Pass
NVNT	2-DH5	2402	Ant1	-0.24	21	Pass
NVNT	2-DH5	2441	Ant1	0.26	21	Pass
NVNT	2-DH5	2480	Ant1	-0.81	21	Pass



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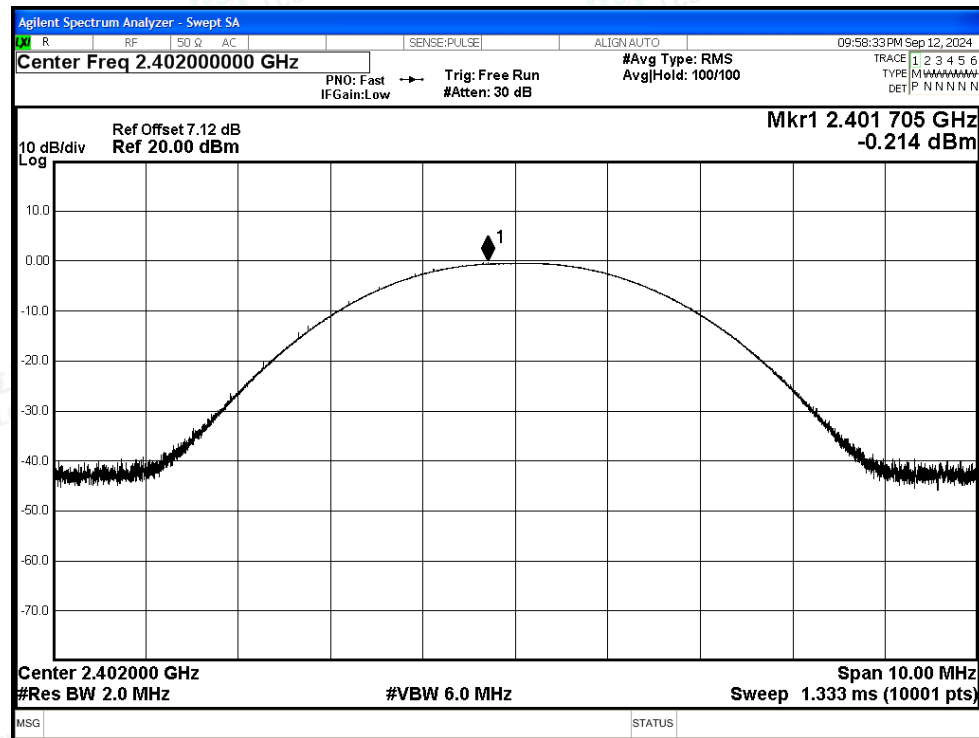
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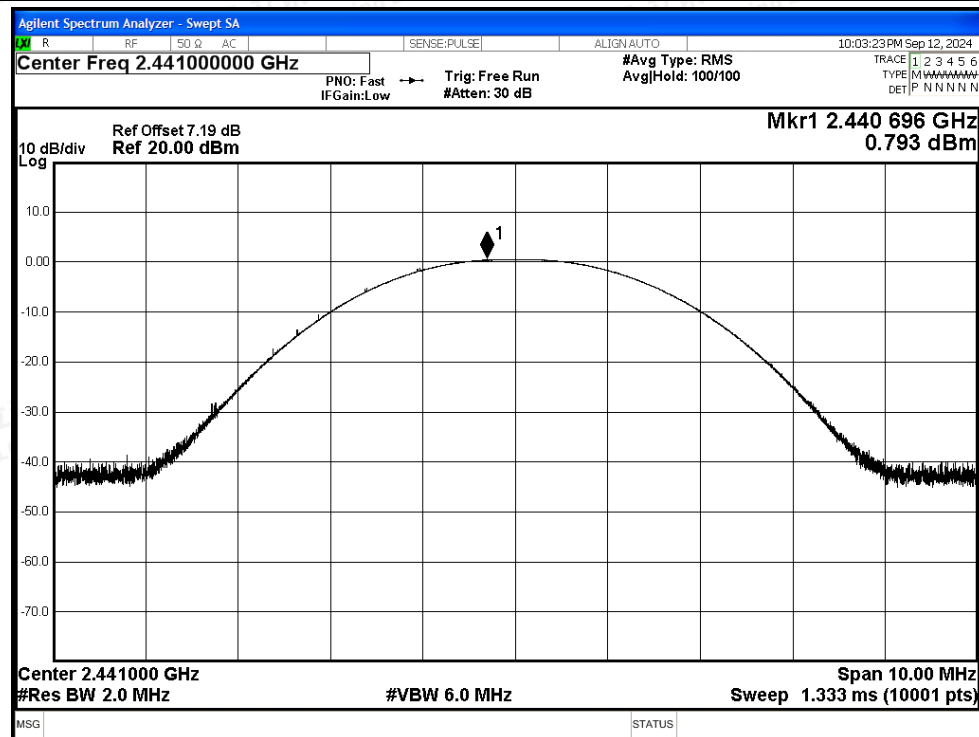


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

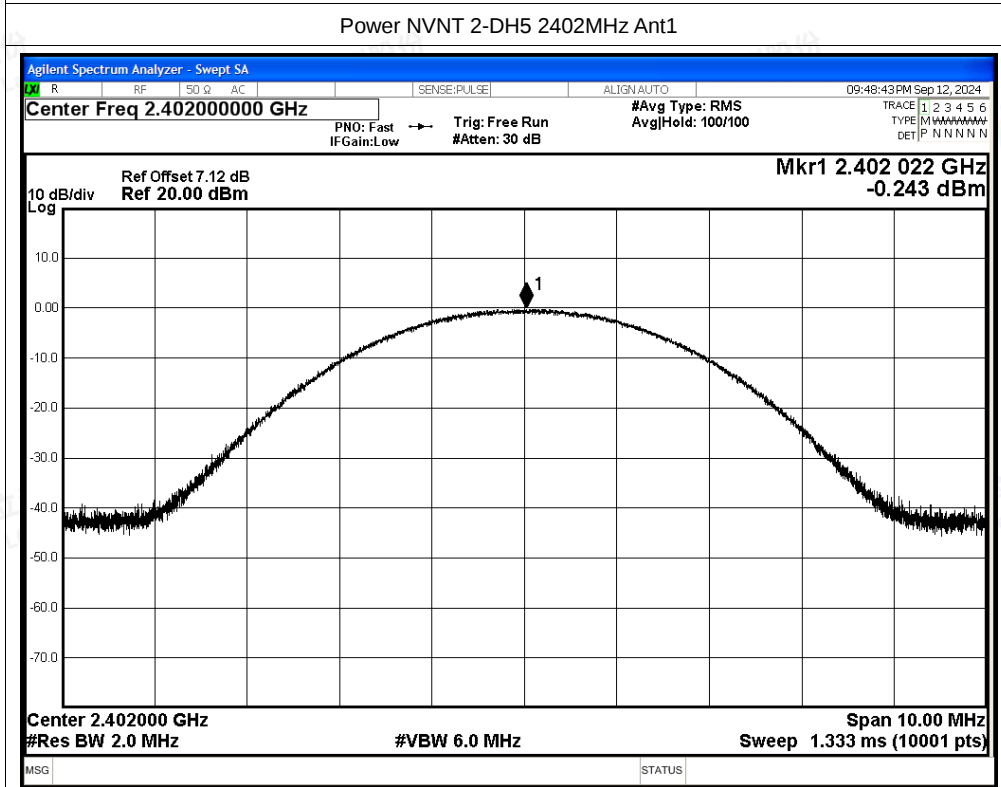
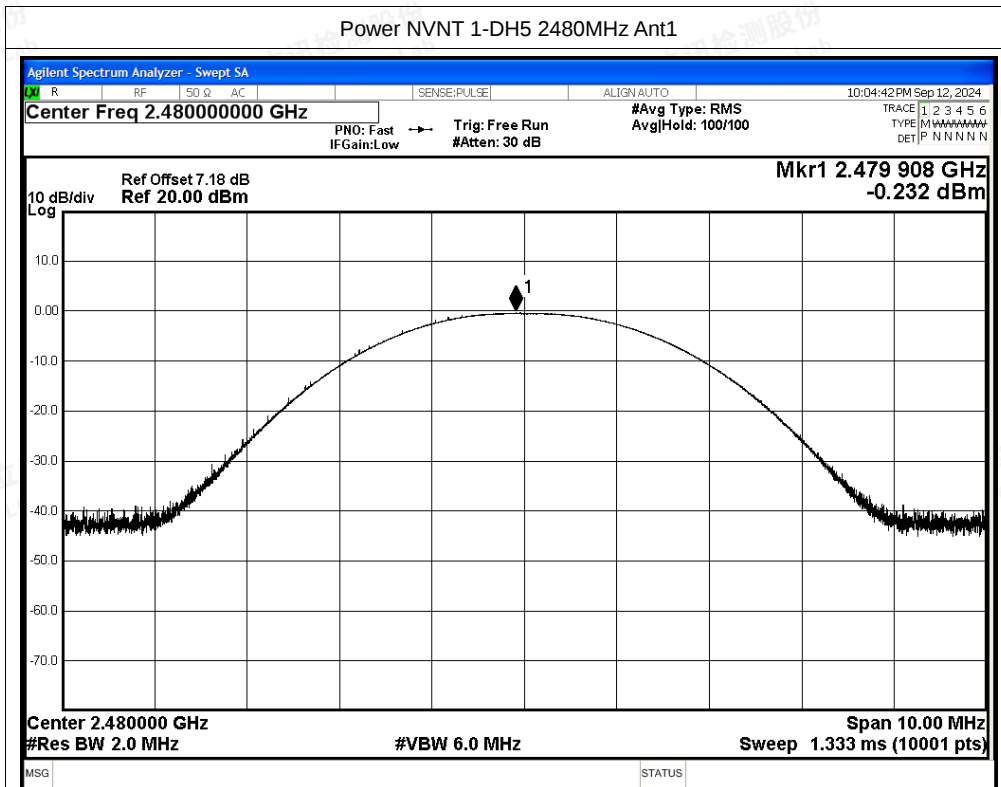


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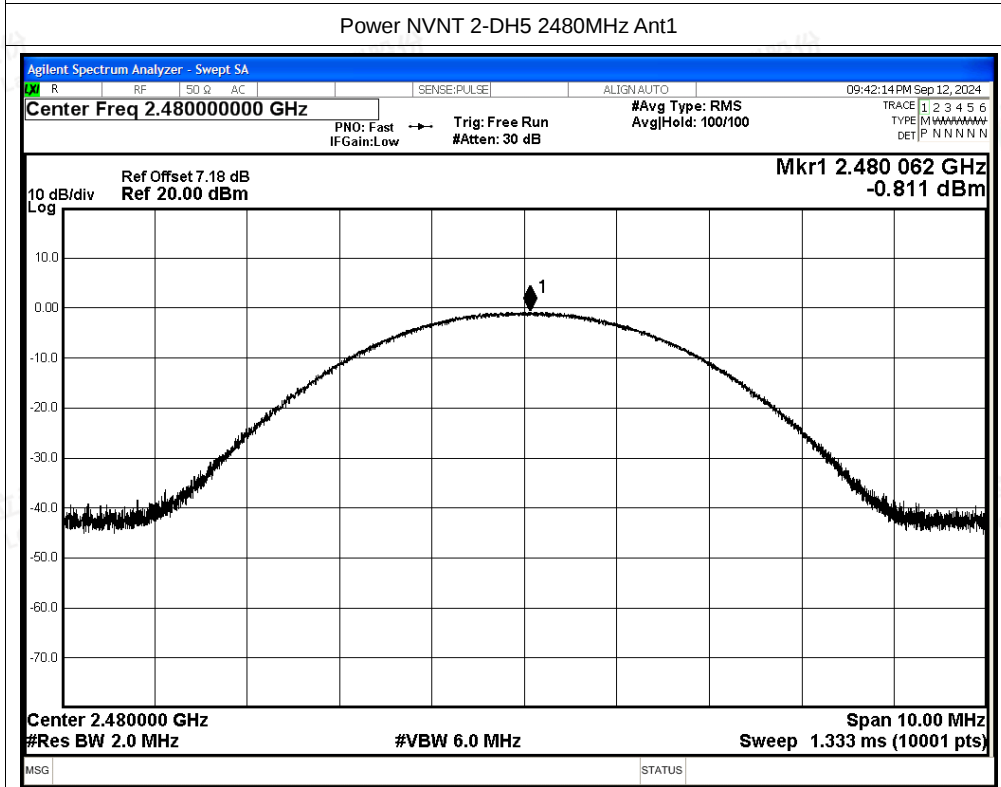
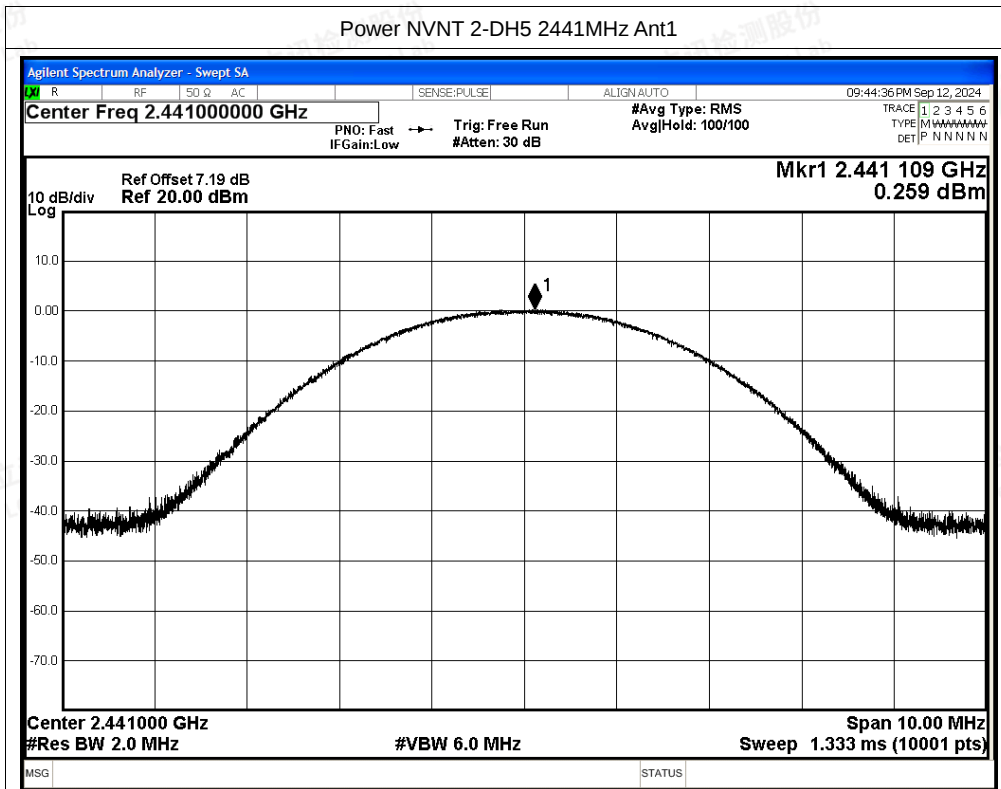


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.012	2402.824	0.812	0.643	Pass
NVNT	2-DH5	Ant1	2402.018	2403.012	0.994	0.857	Pass

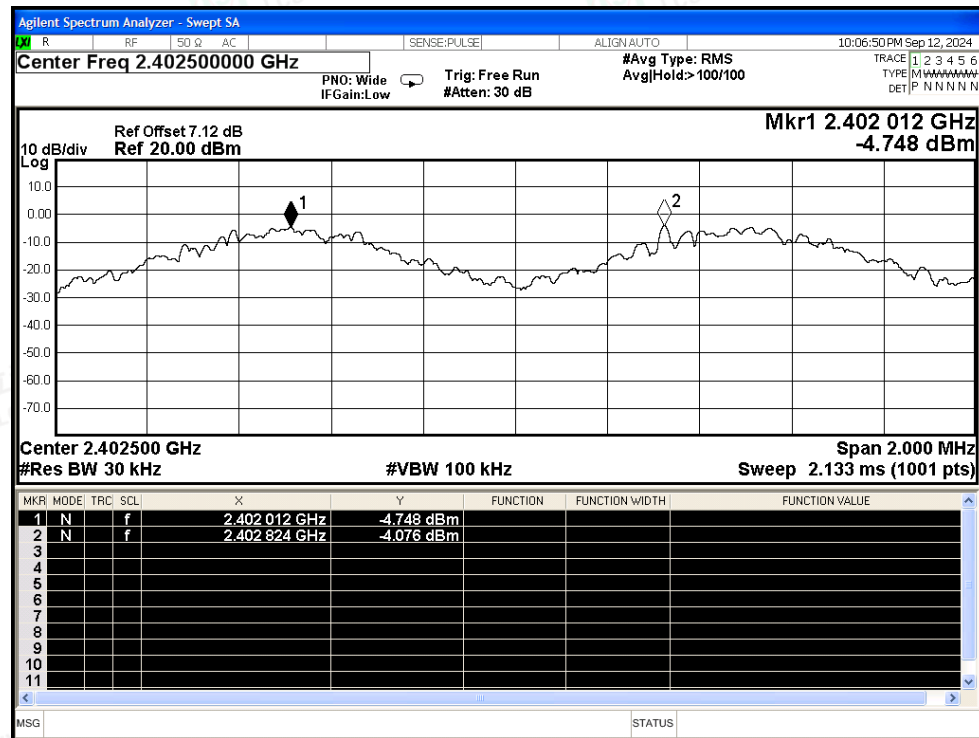


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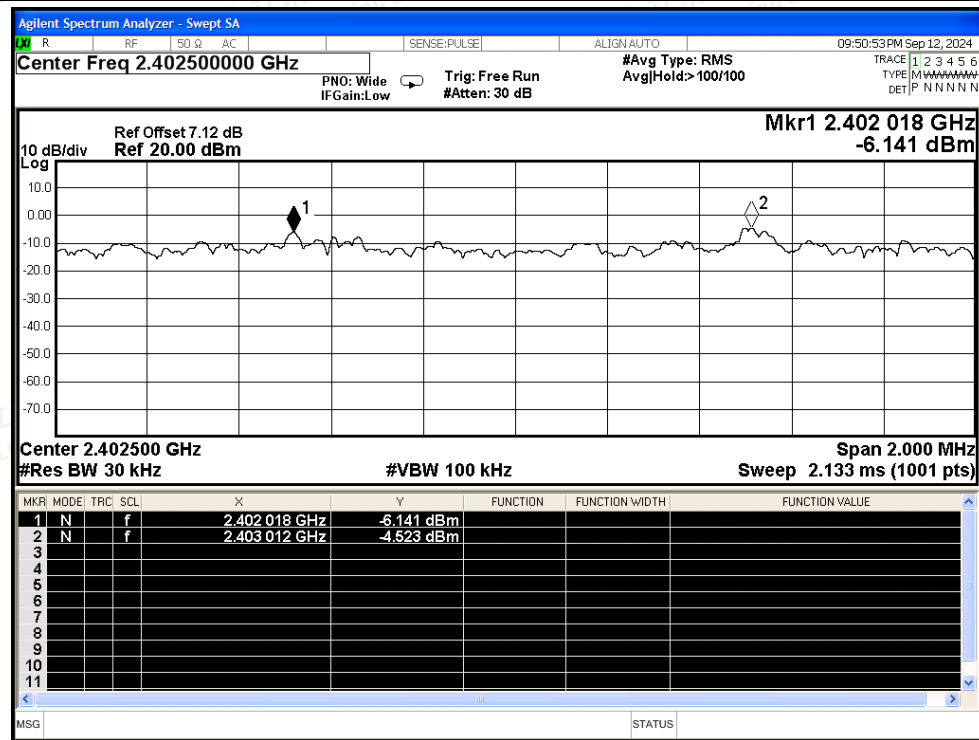


Test Graphs

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	264.81	91	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	318.78	110	31600	400	Pass



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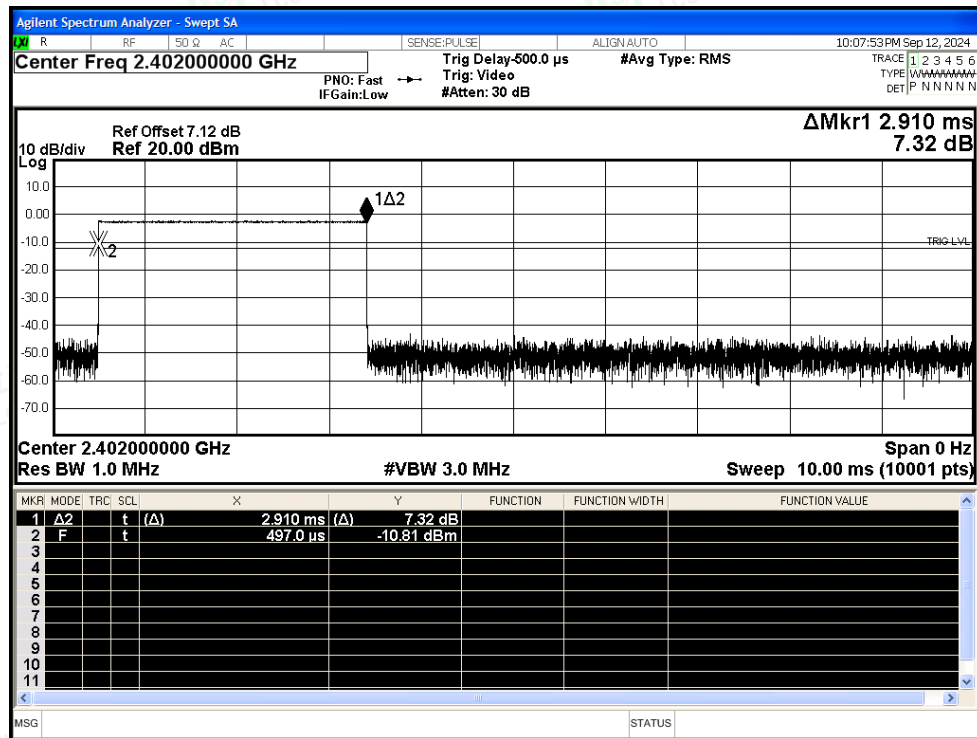
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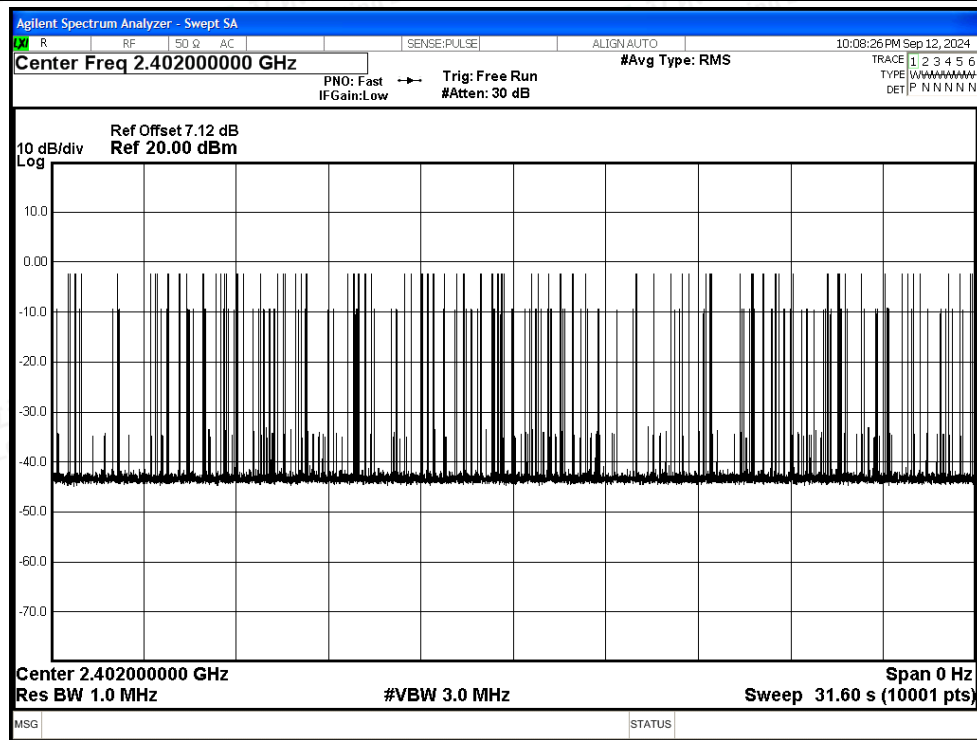


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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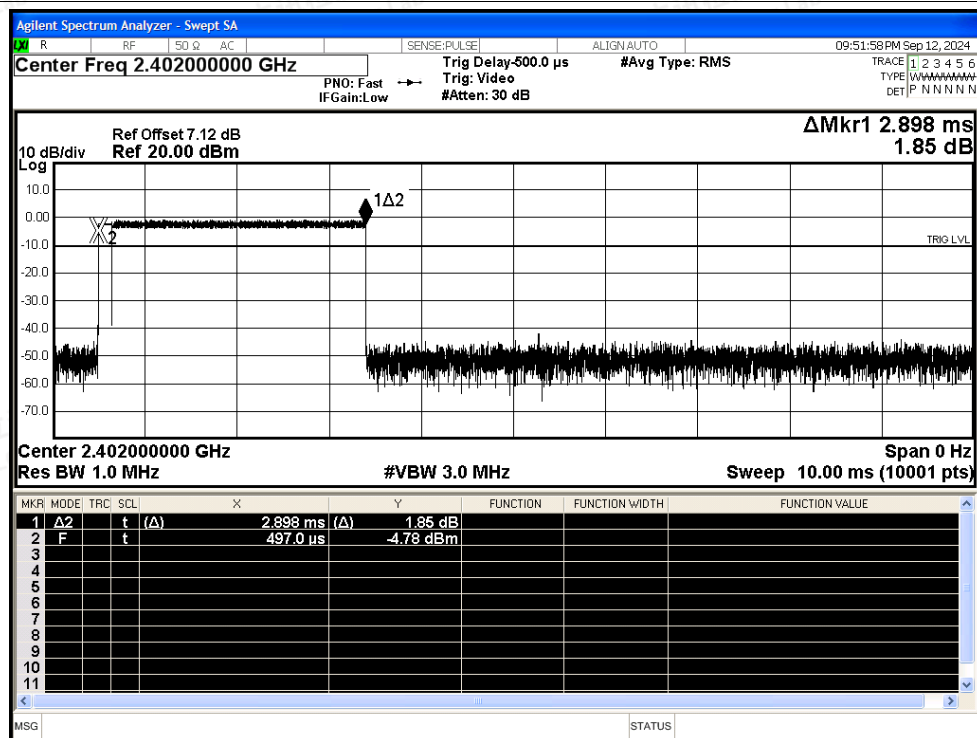
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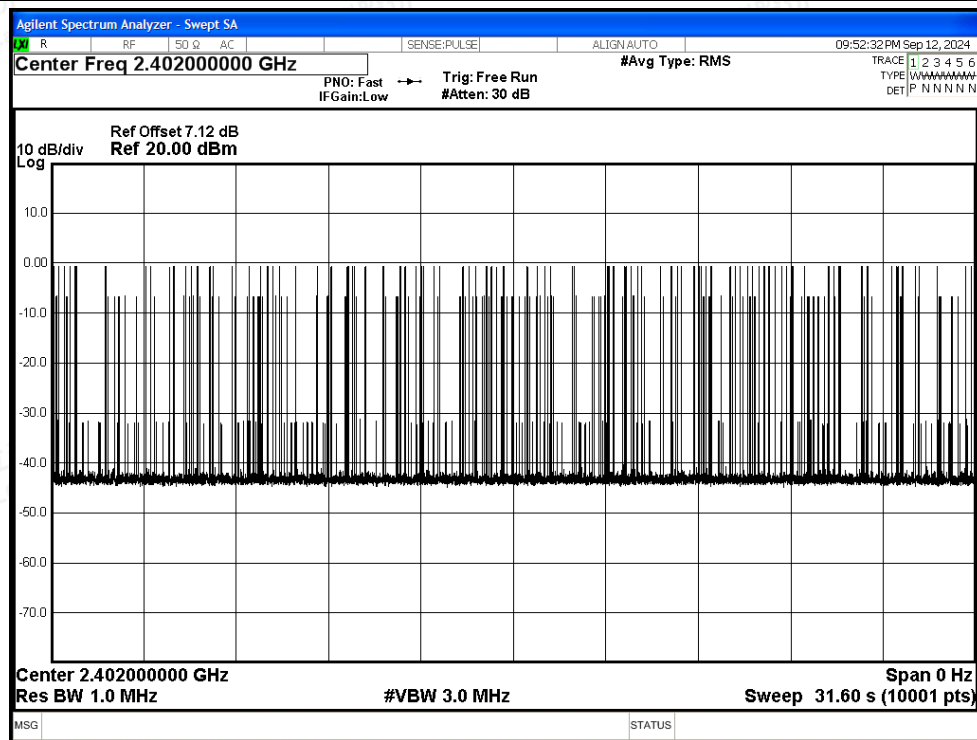
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-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

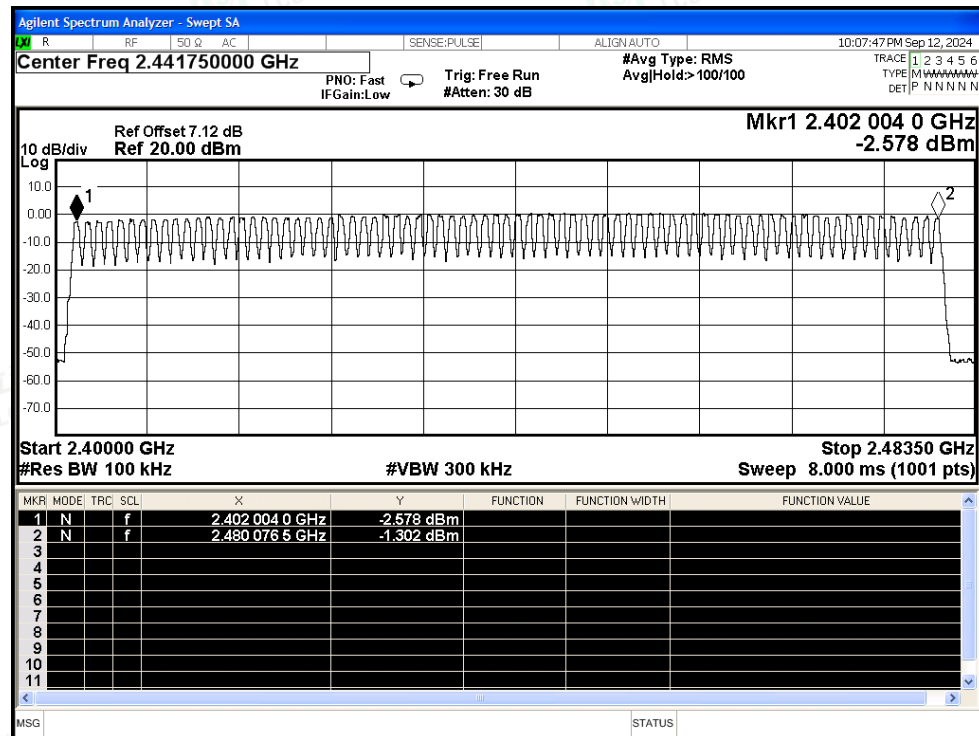


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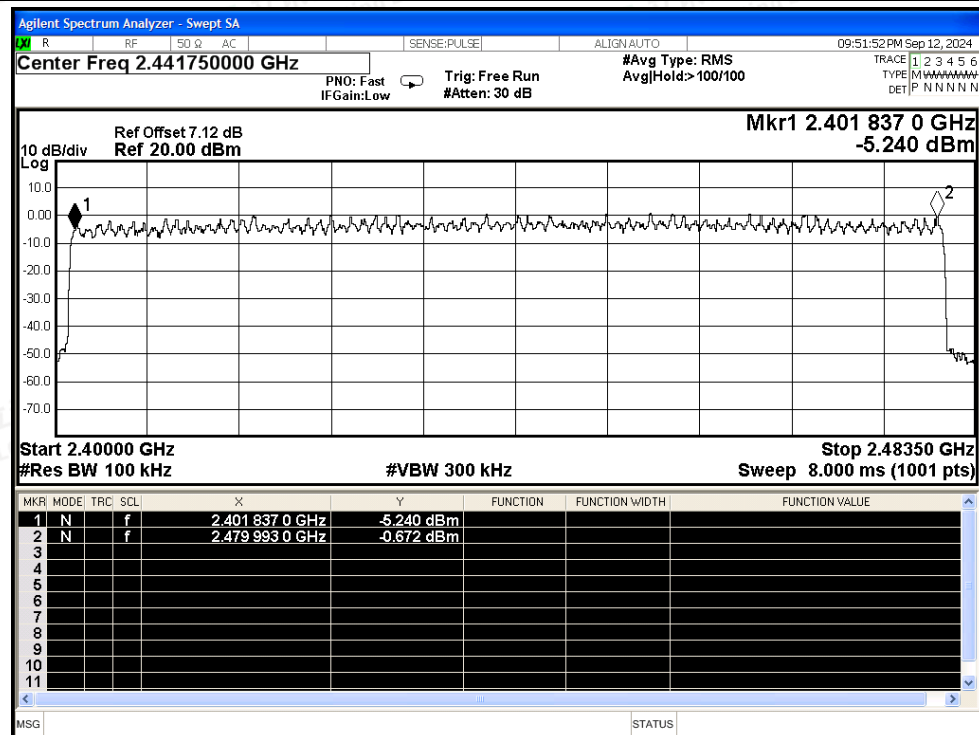


Test Graphs

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	-47.81	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-50.65	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-46.79	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-49.22	-20	Pass



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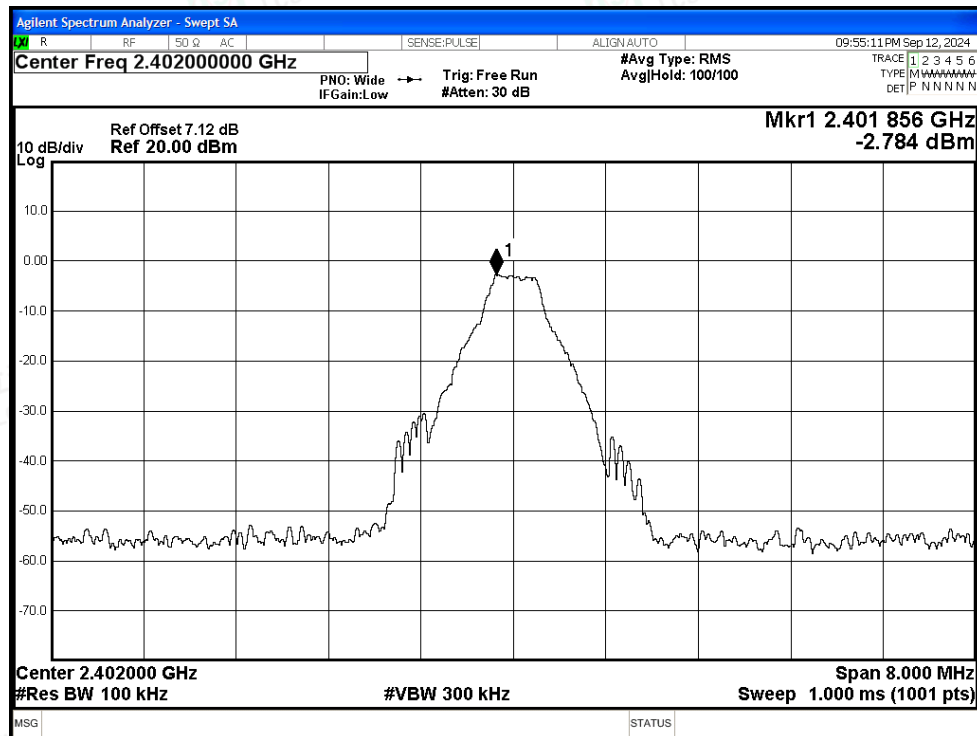
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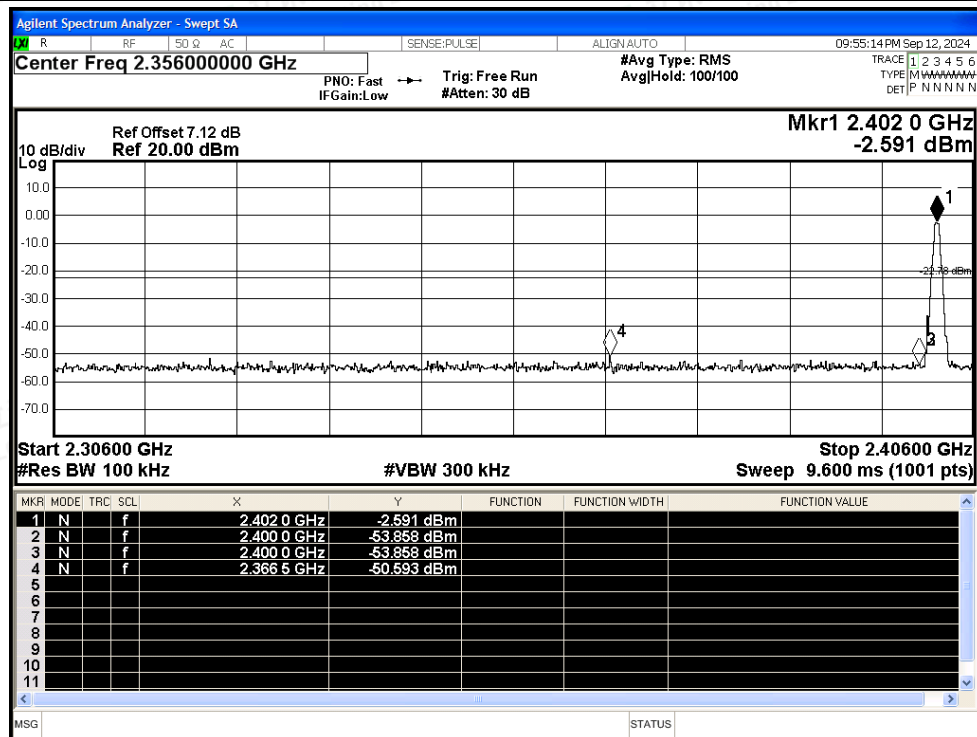


Test Graphs

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



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



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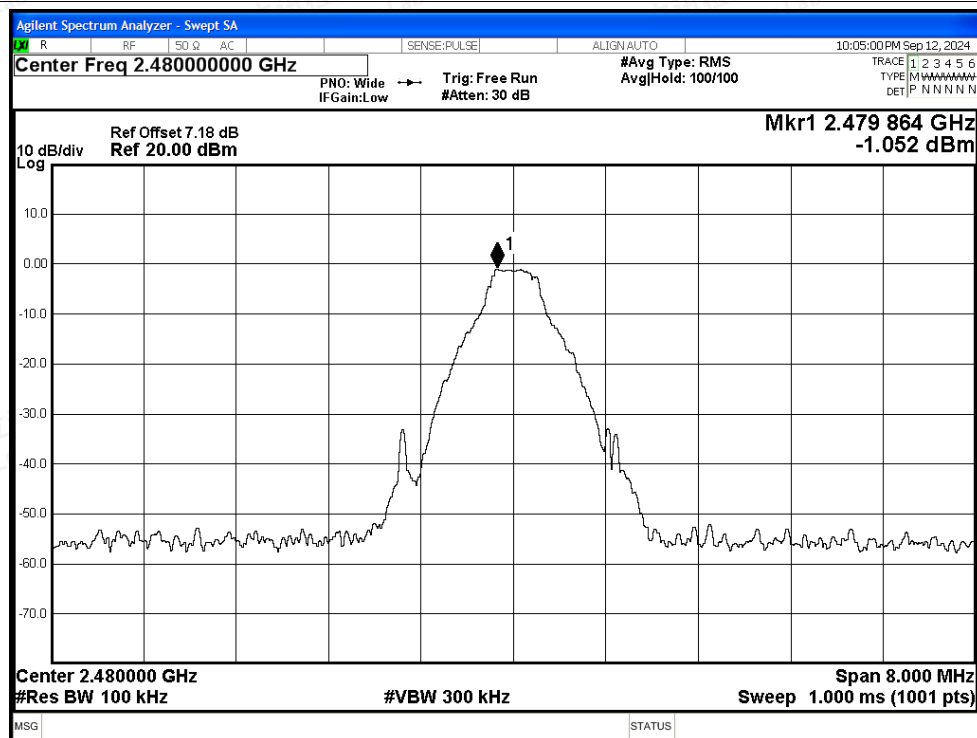
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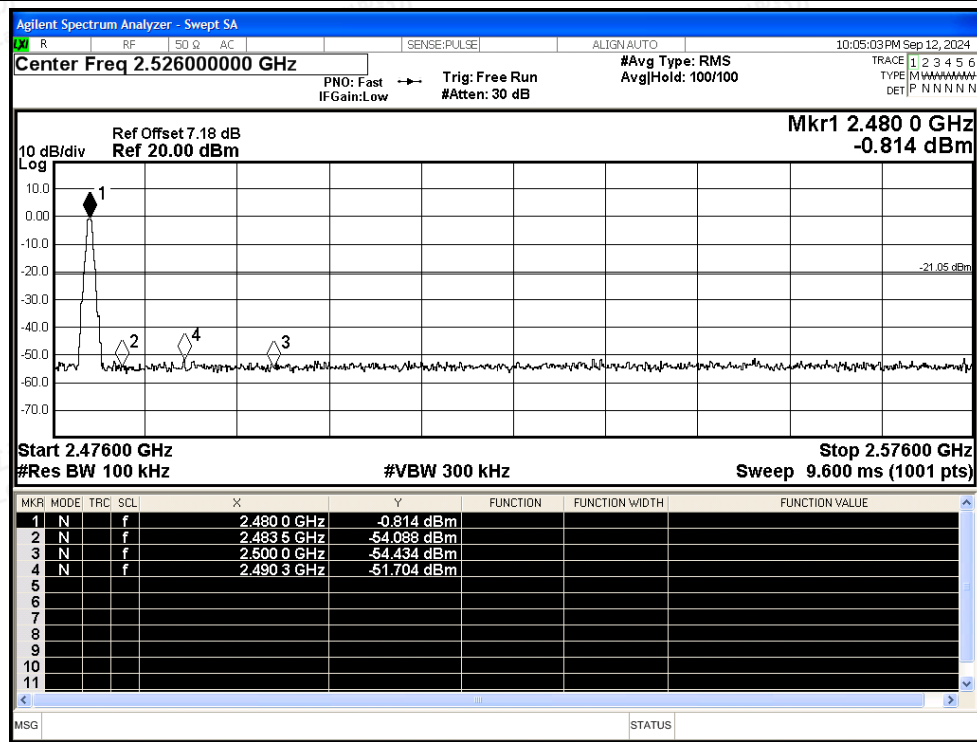
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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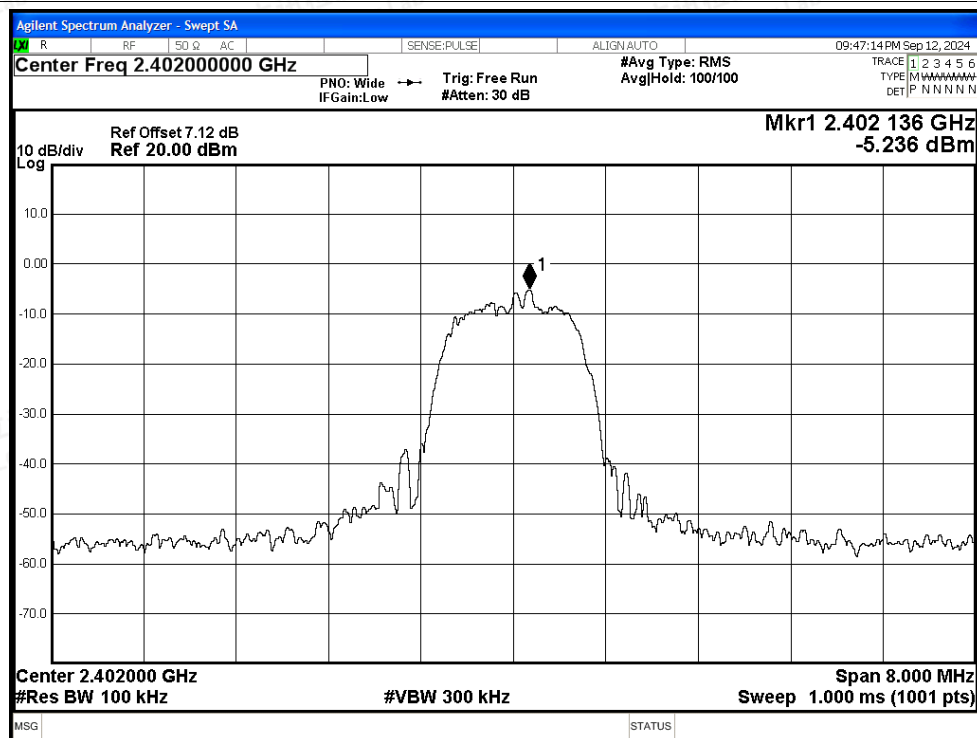
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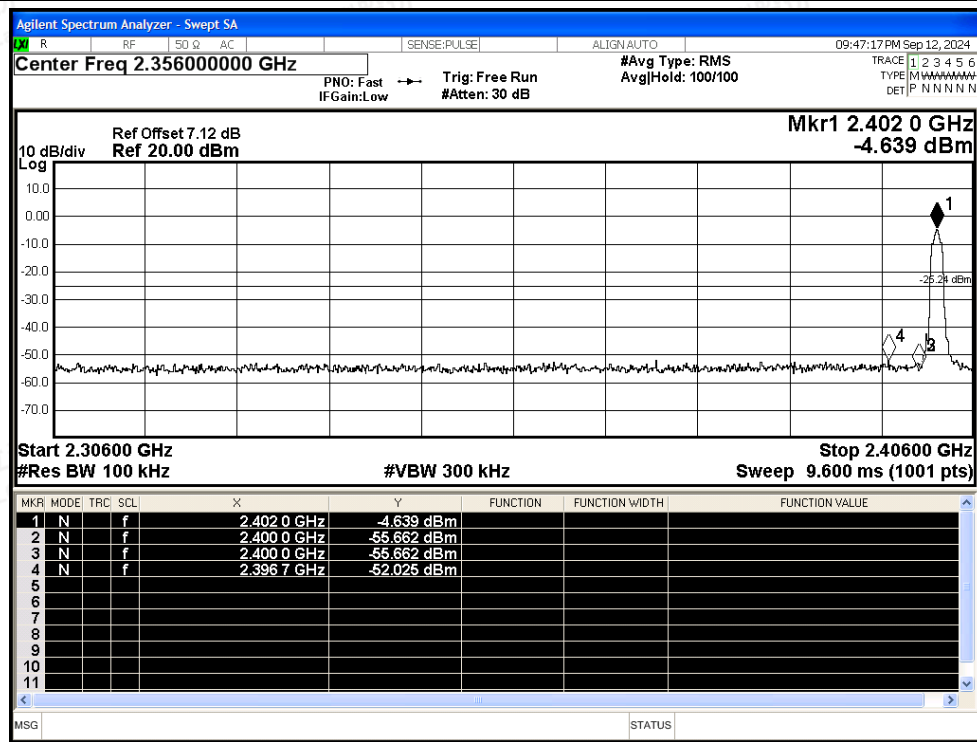
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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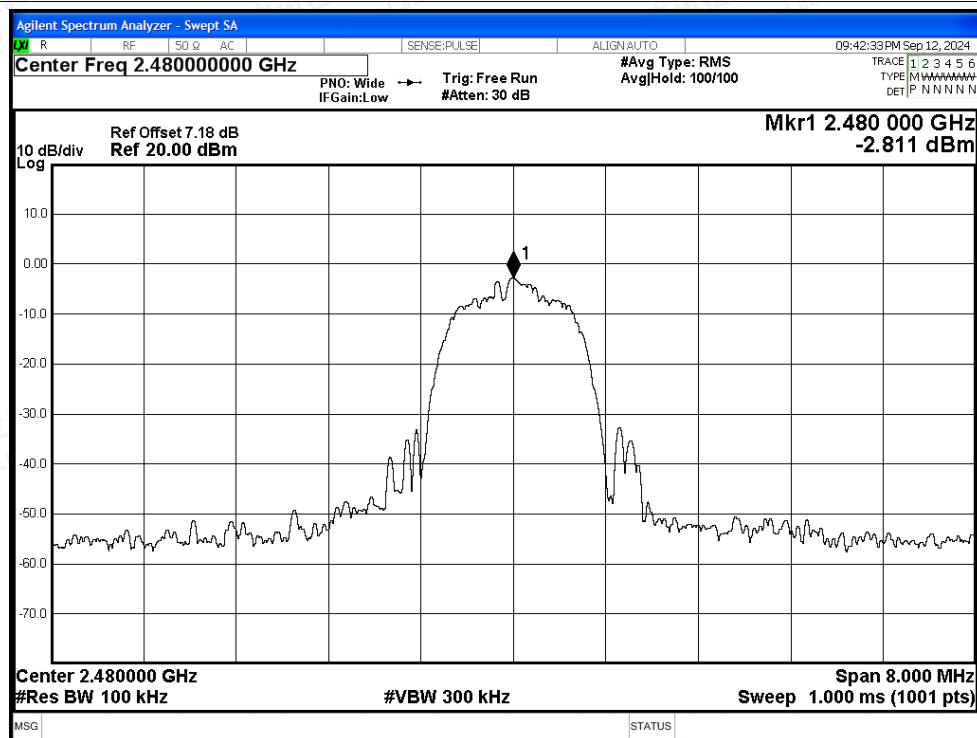
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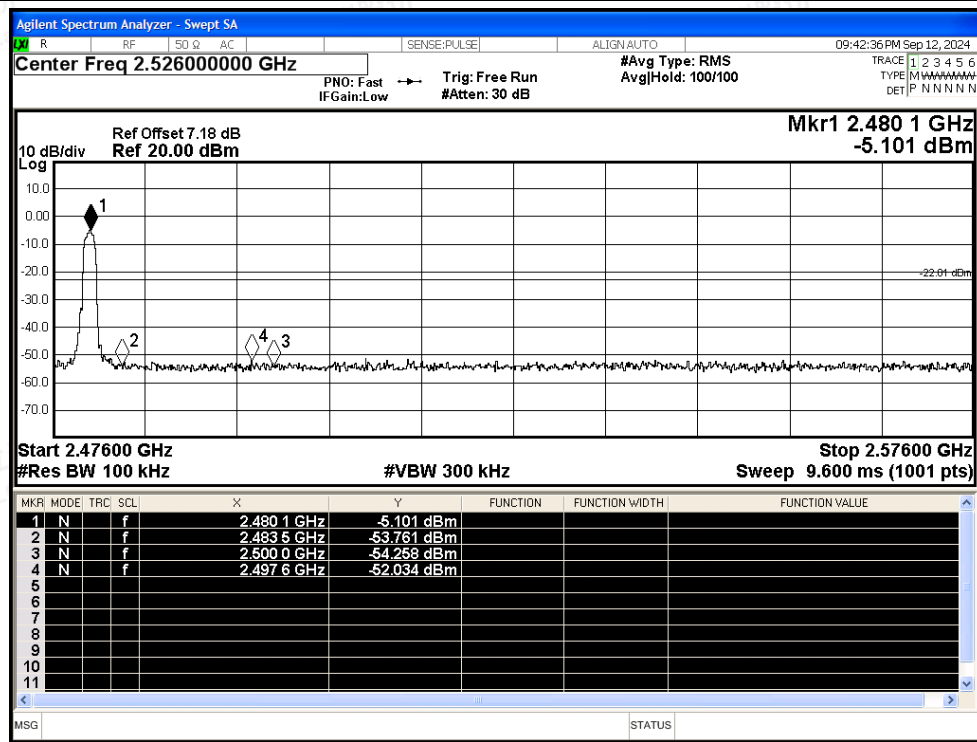
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-49.28	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-50.19	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-48.35	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-50.34	-20	Pass



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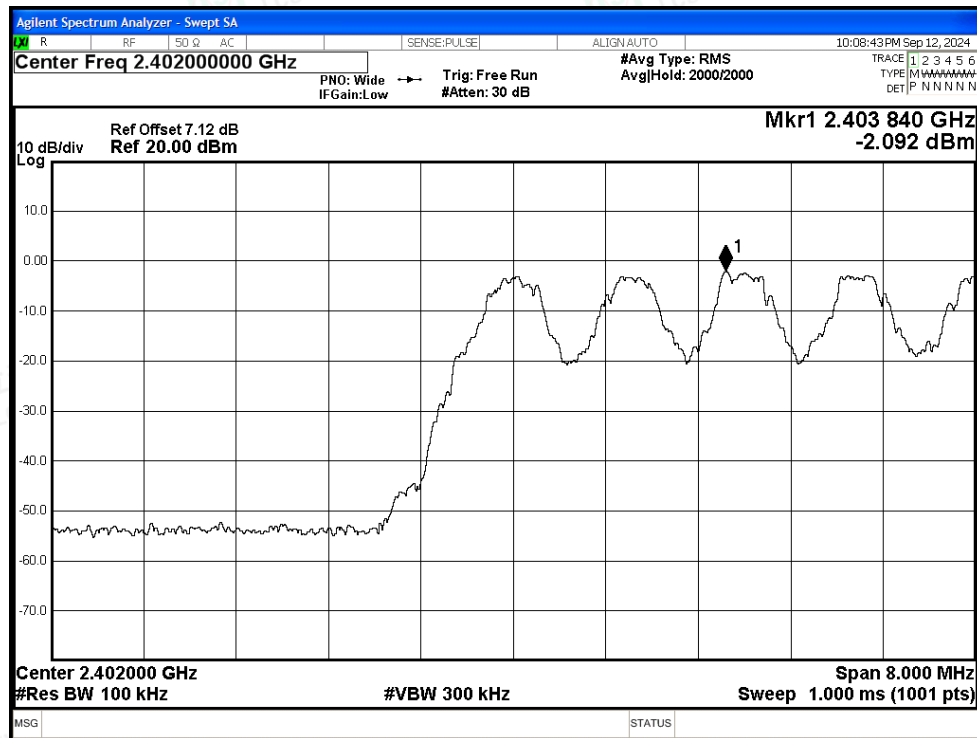
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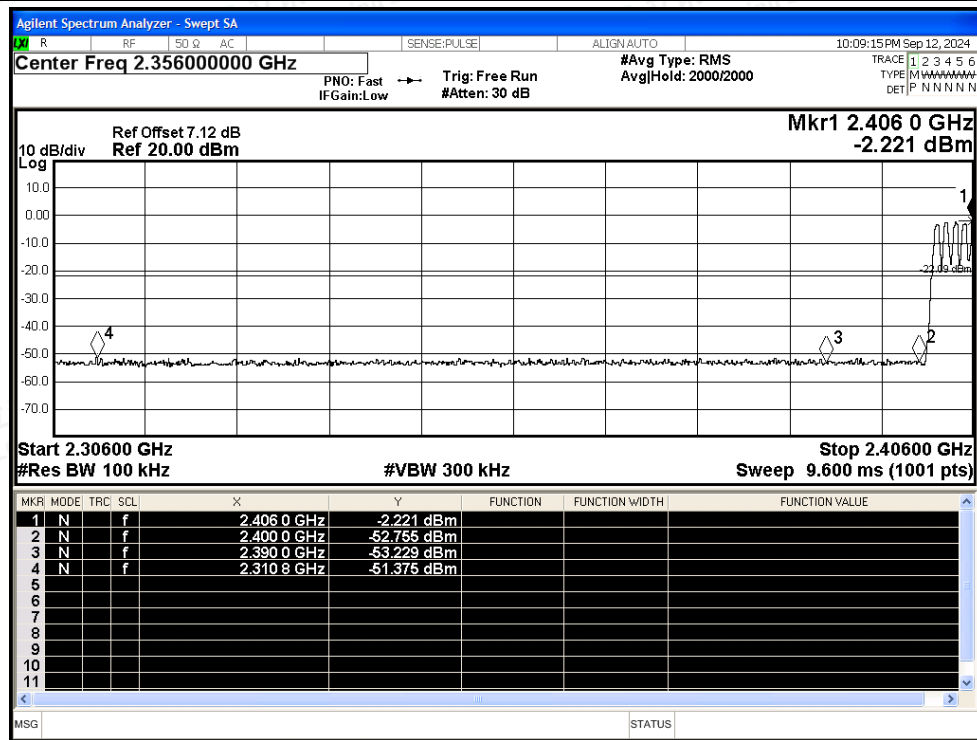


Test Graphs

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



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



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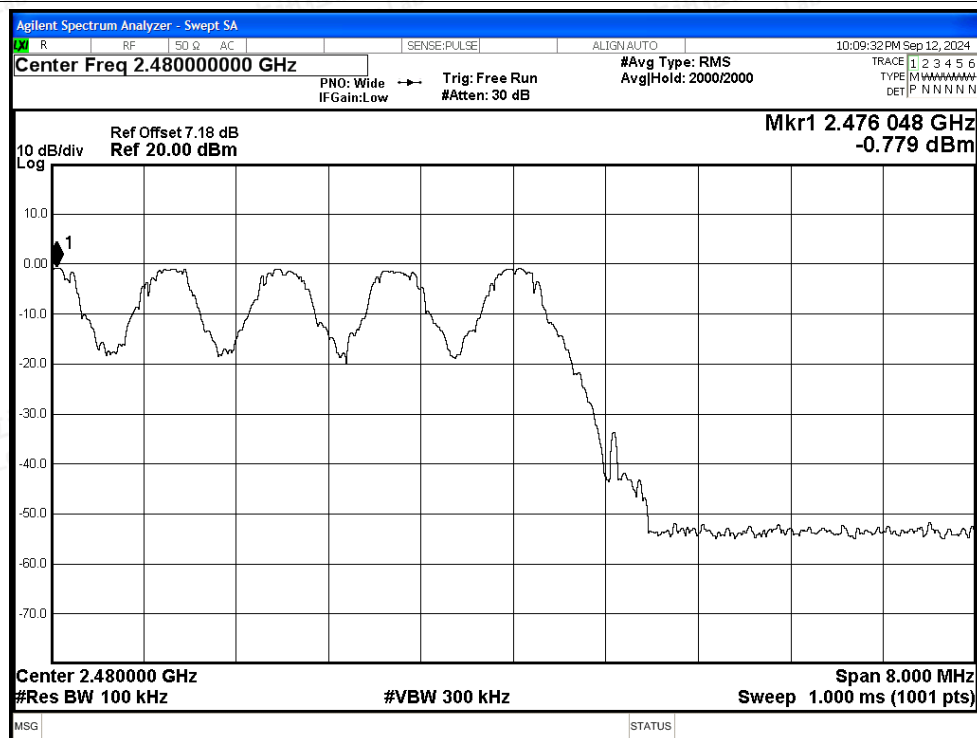
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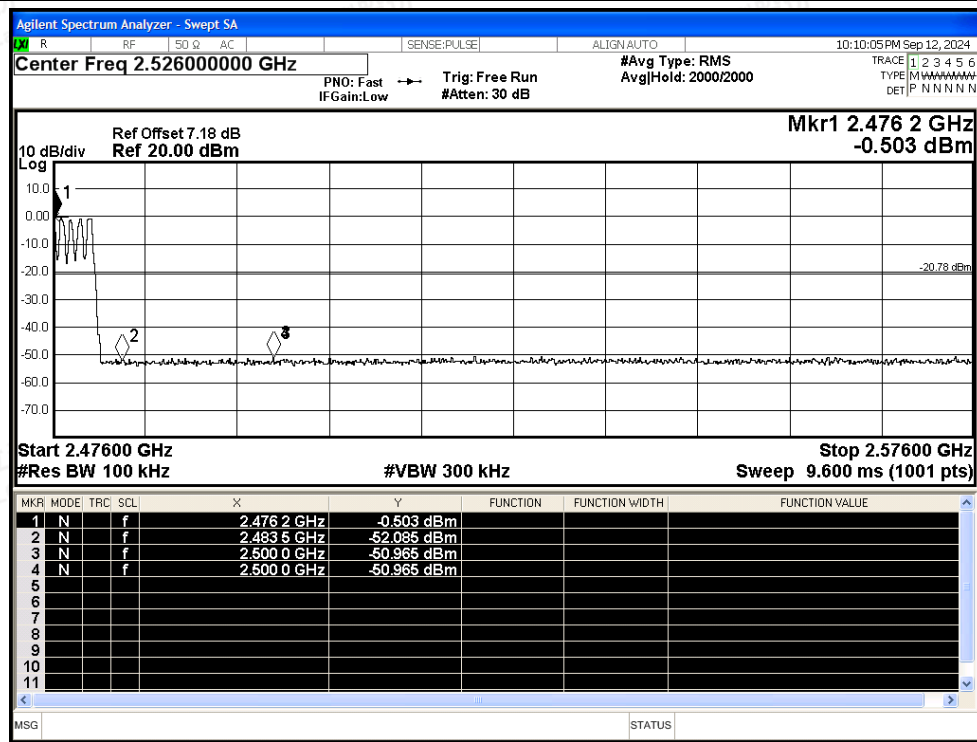
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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



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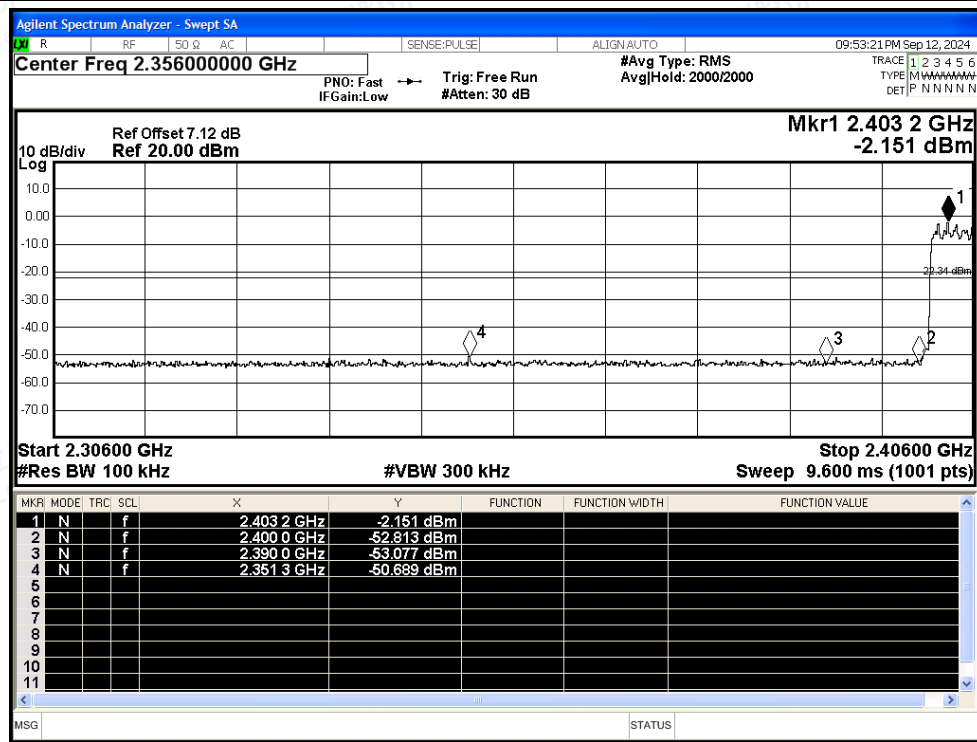
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



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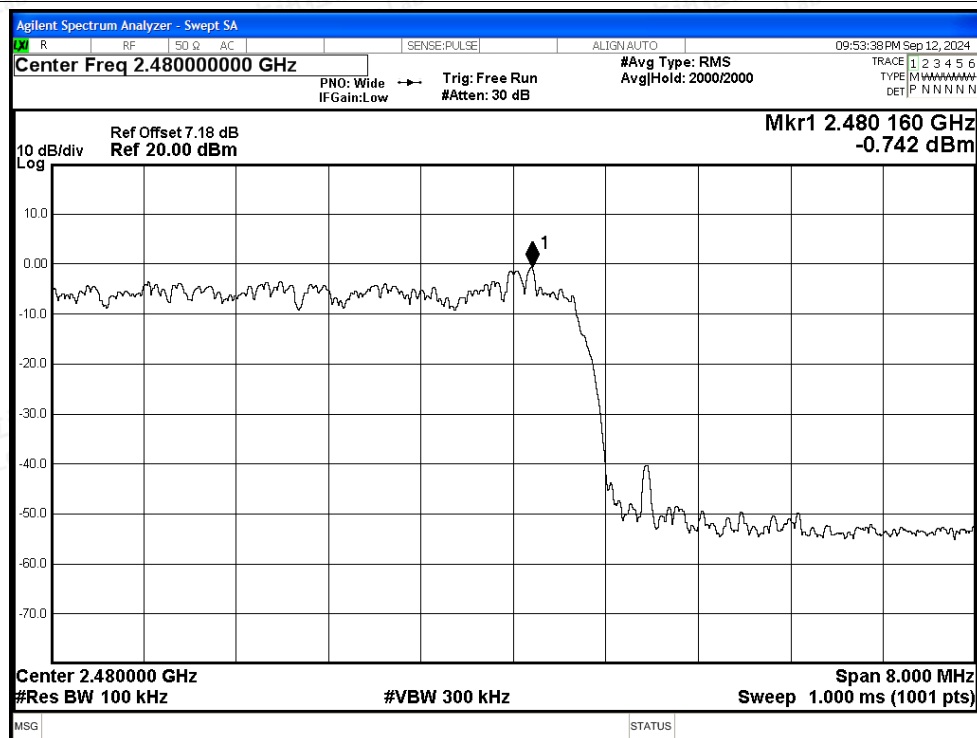
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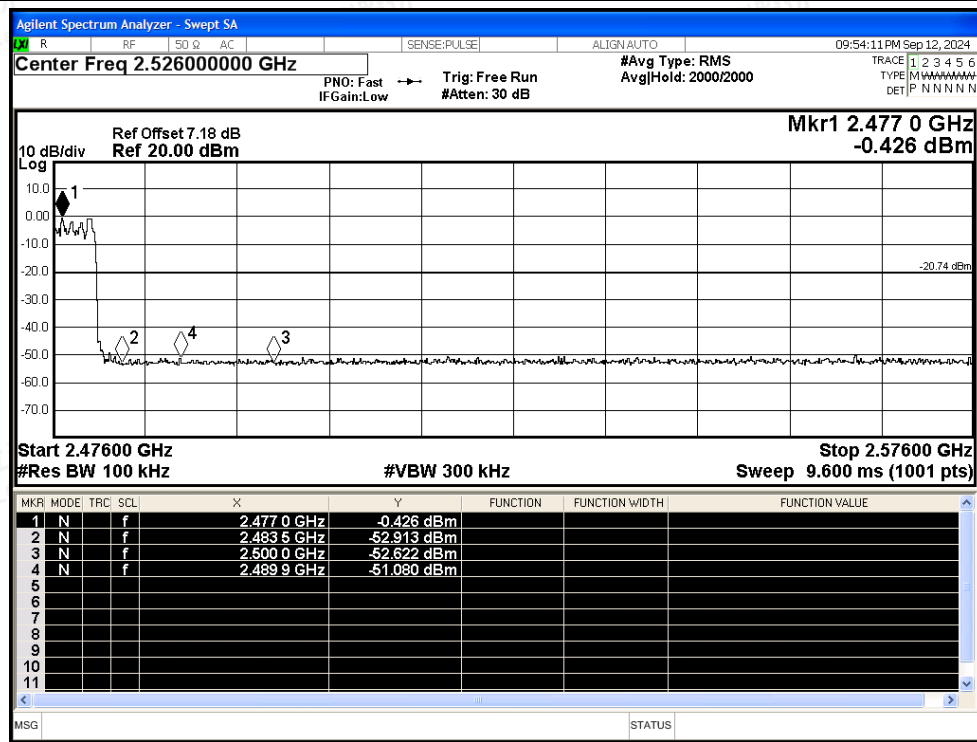
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-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	-47.26	-20	Pass
NVNT	1-DH5	2441	Ant1	-50.35	-20	Pass
NVNT	1-DH5	2480	Ant1	-48.61	-20	Pass
NVNT	2-DH5	2402	Ant1	-44.85	-20	Pass
NVNT	2-DH5	2441	Ant1	-48.38	-20	Pass
NVNT	2-DH5	2480	Ant1	-46.28	-20	Pass



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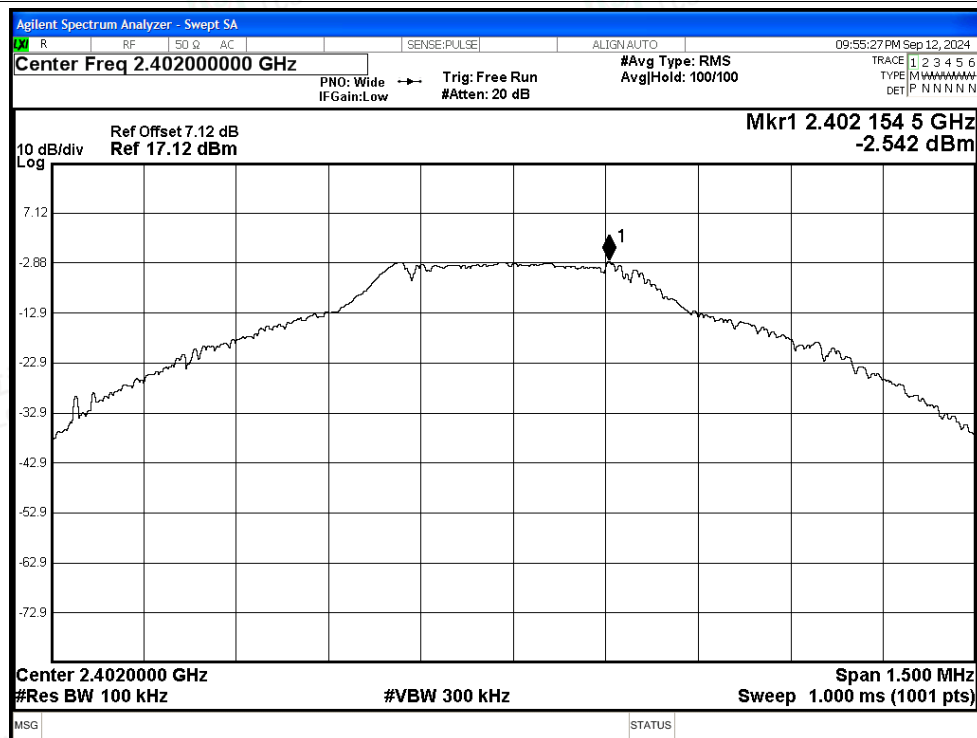
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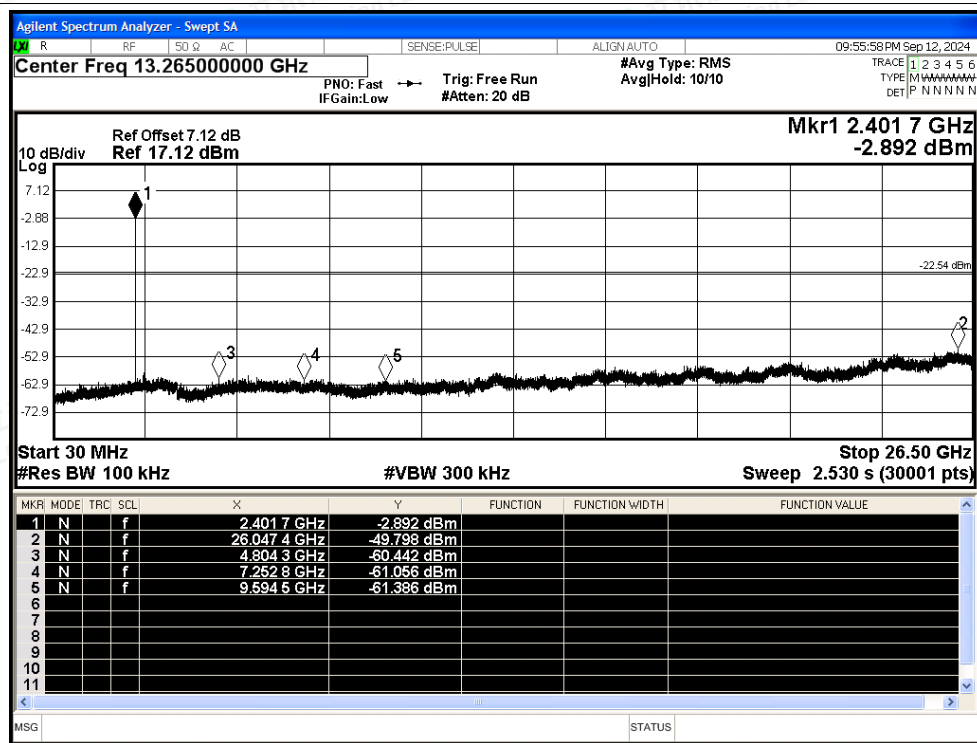


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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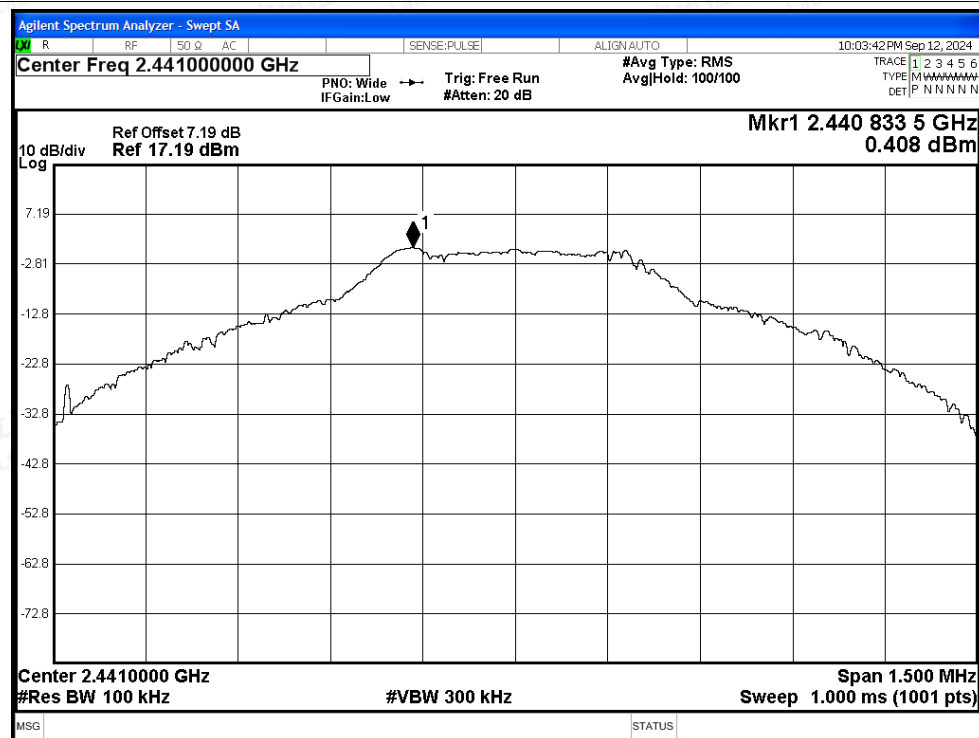
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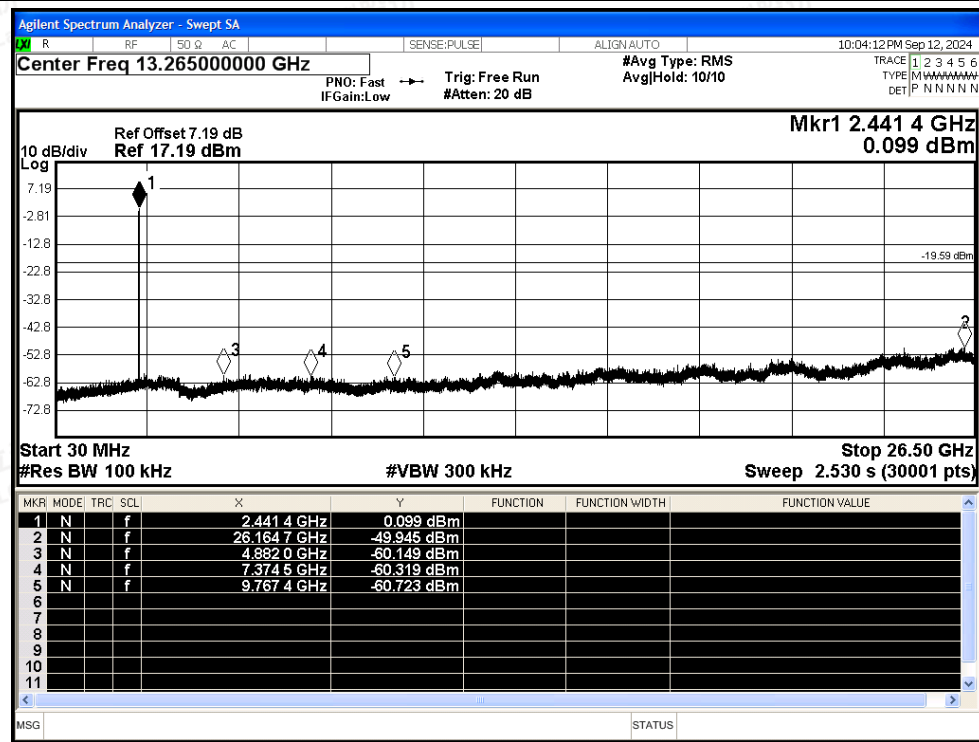
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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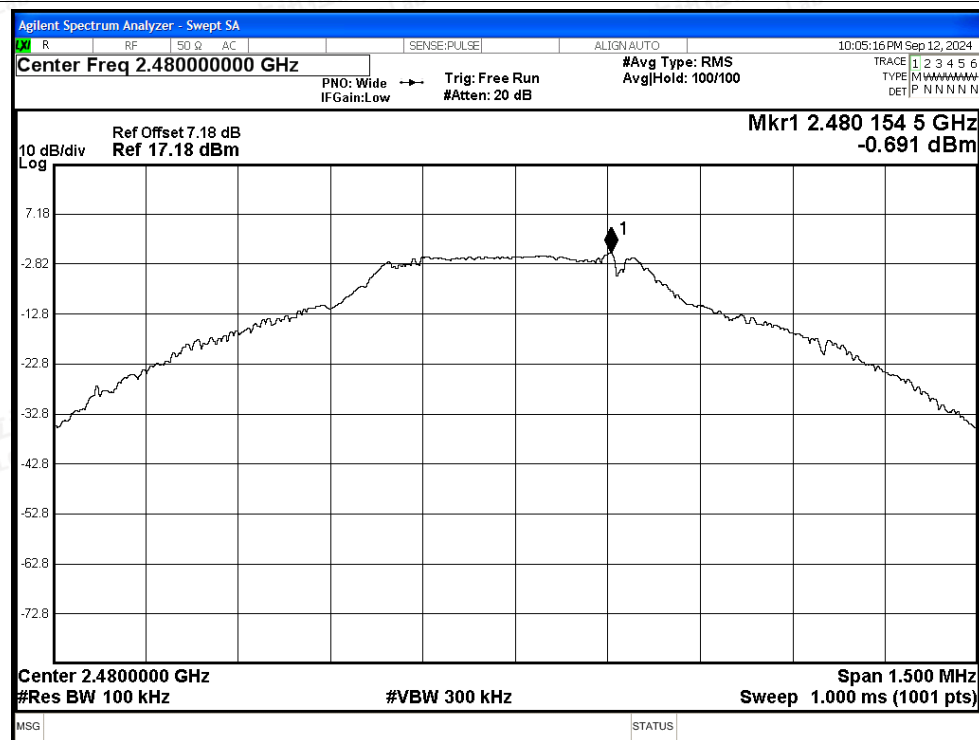
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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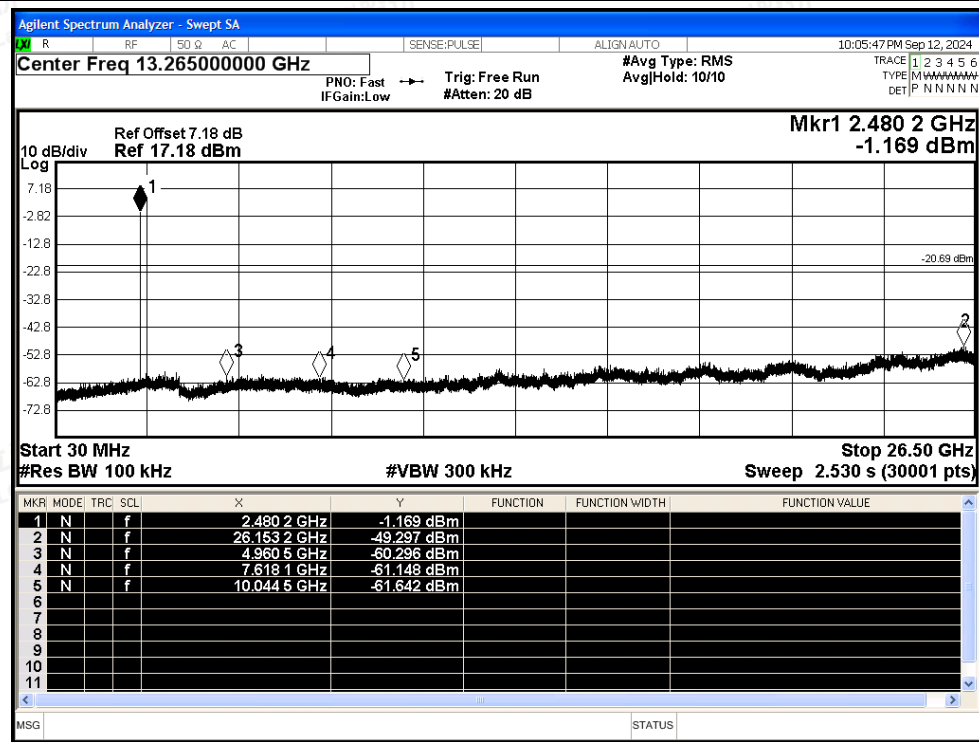
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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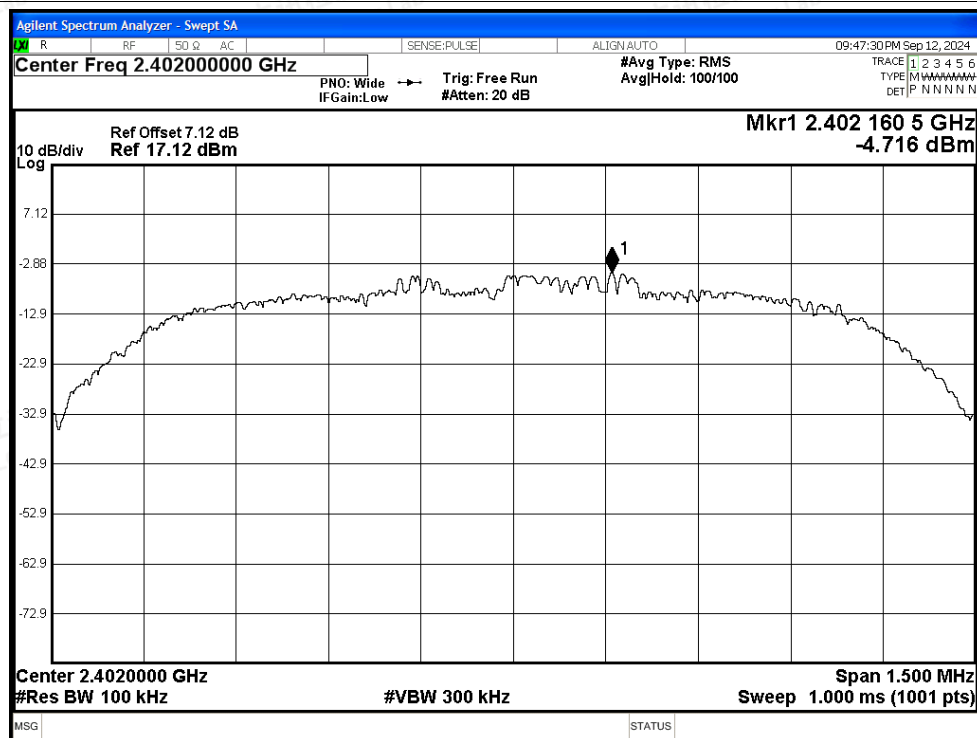
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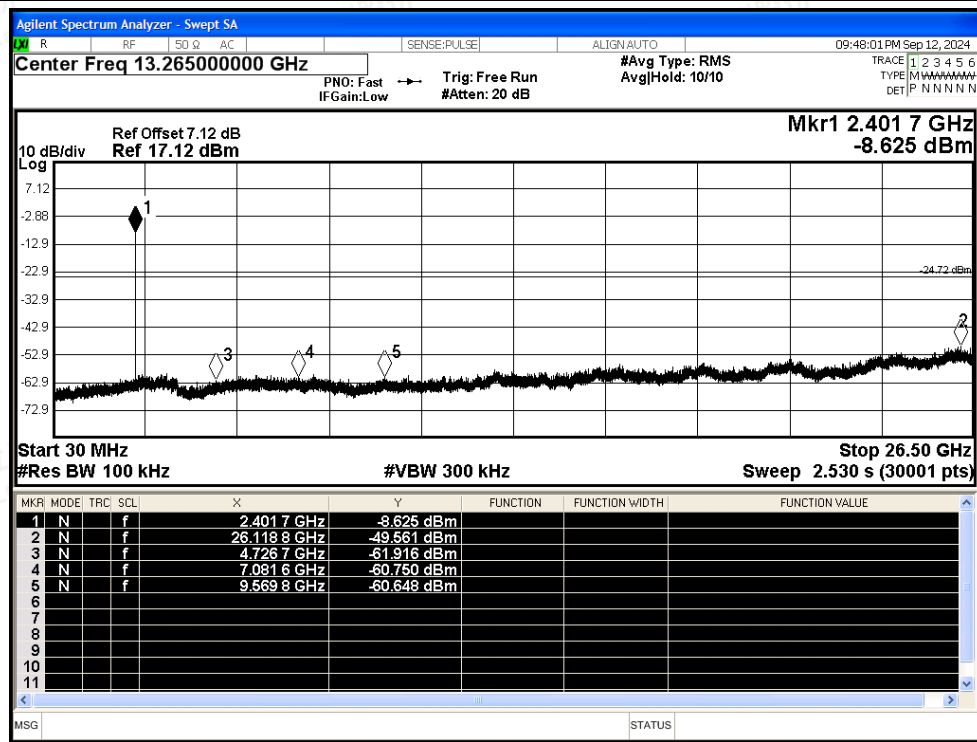
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



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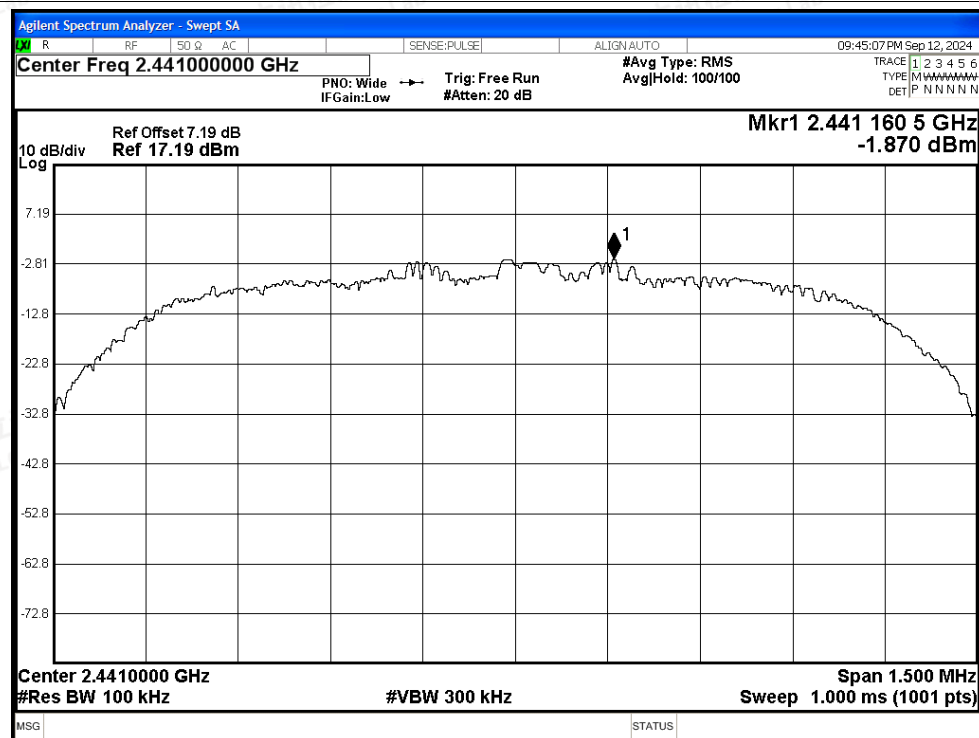
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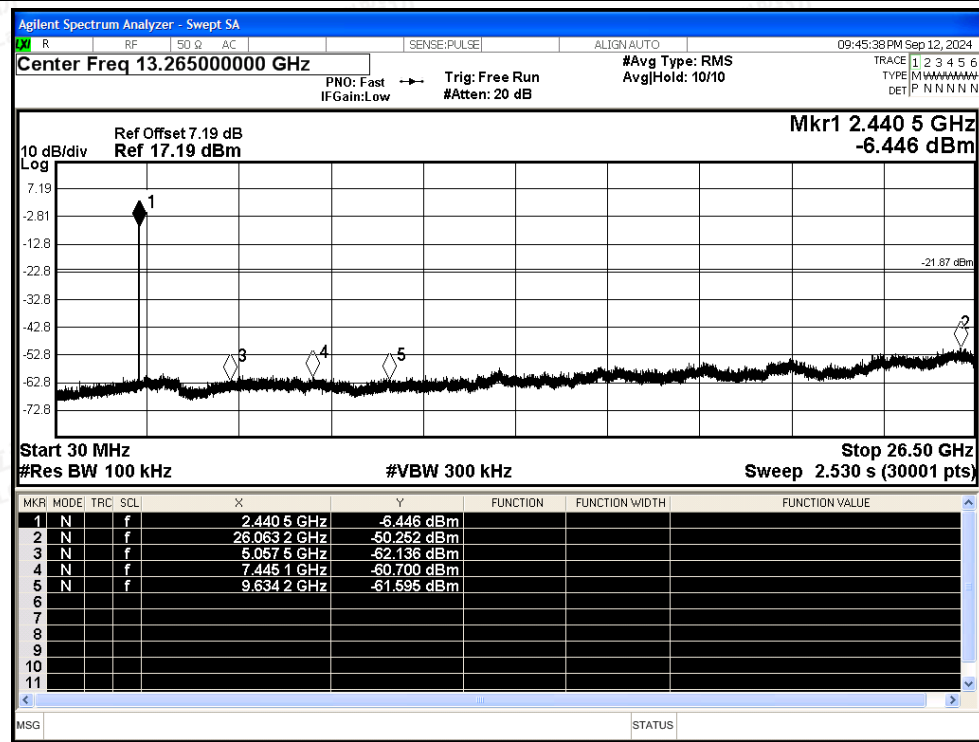
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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

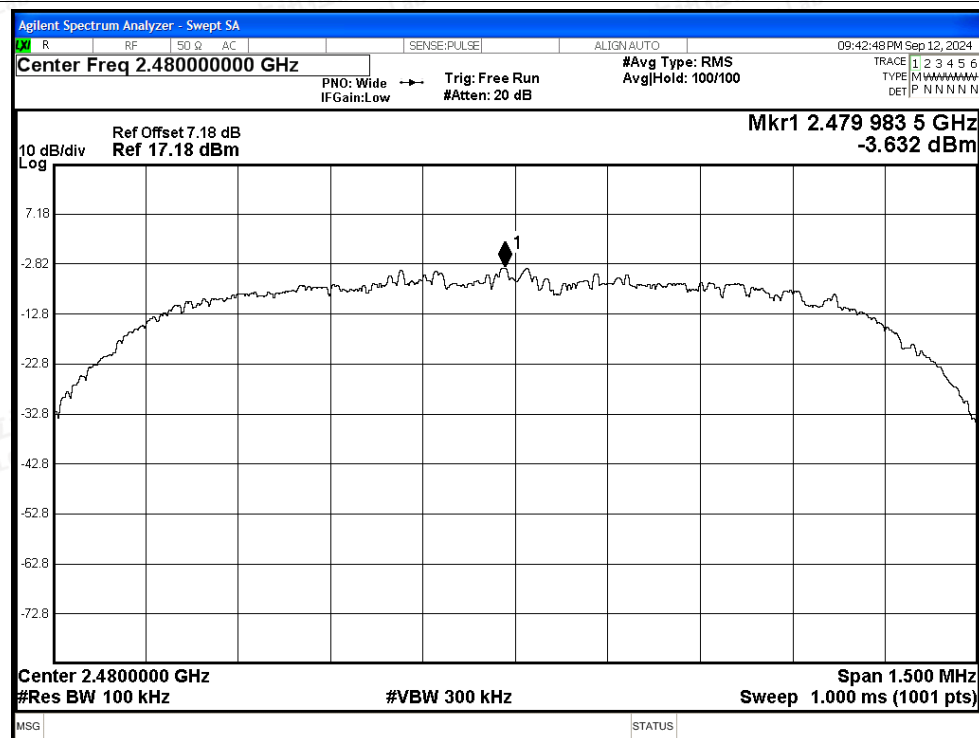
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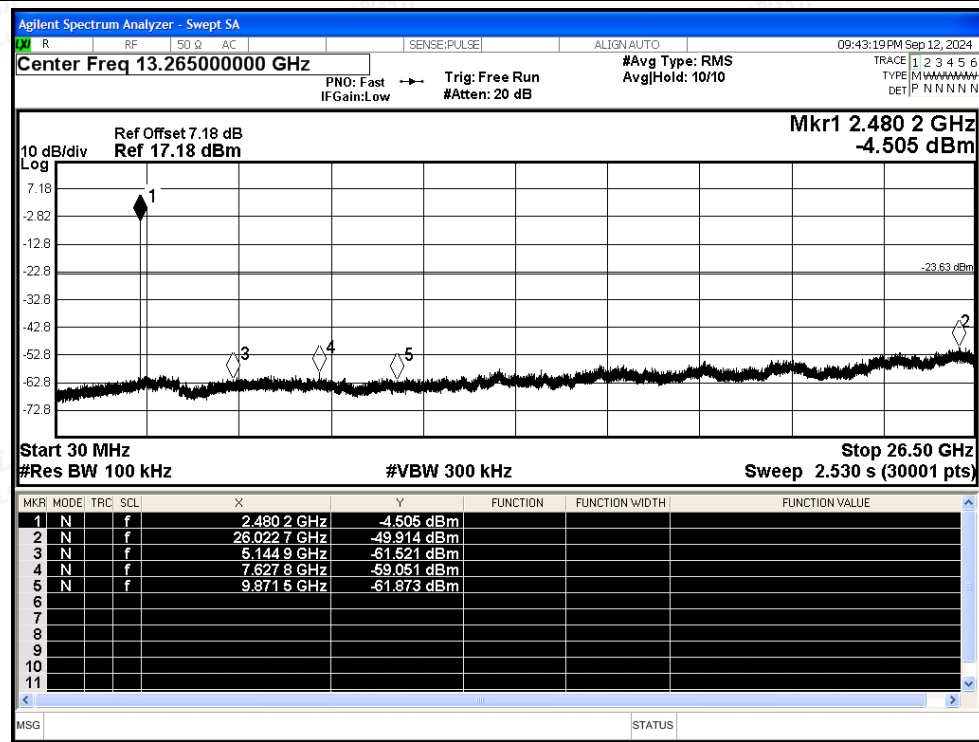
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-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	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35



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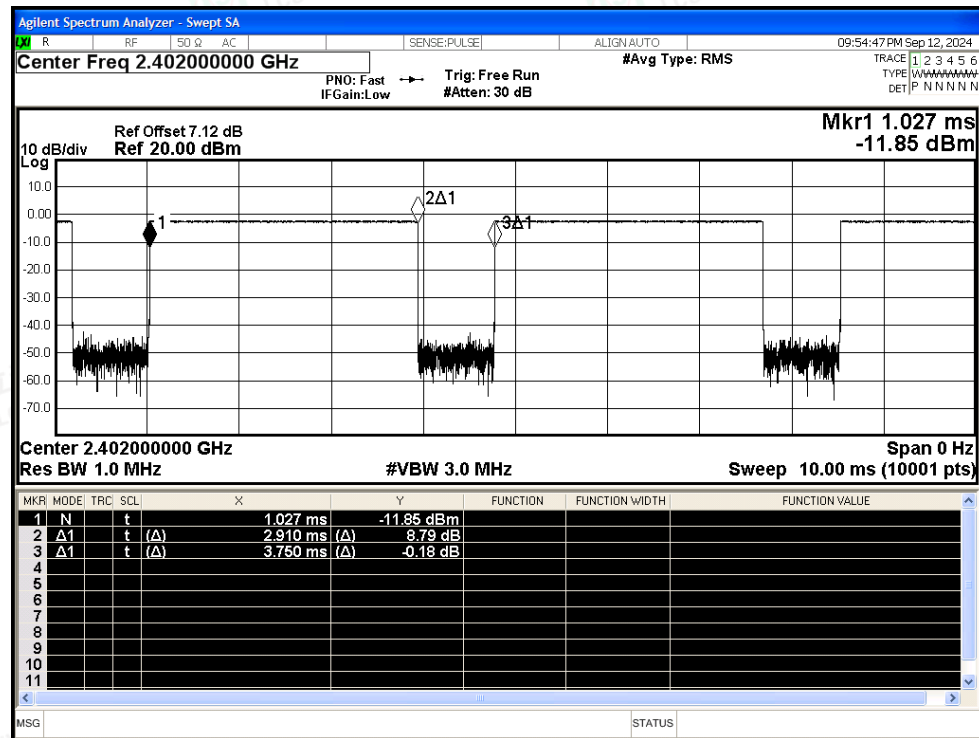
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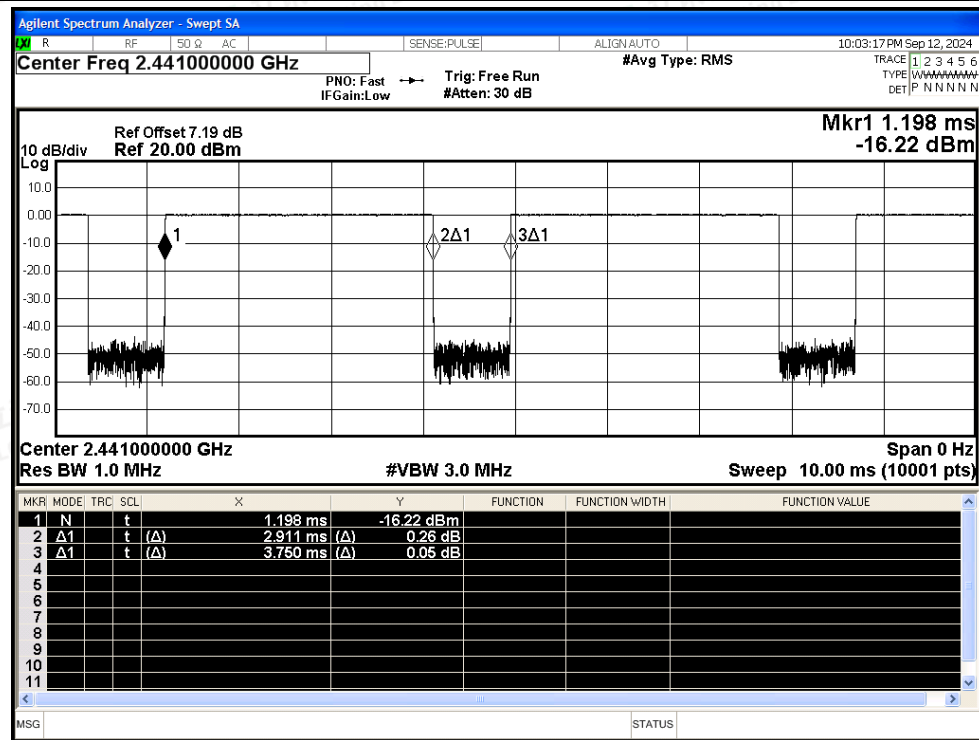


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



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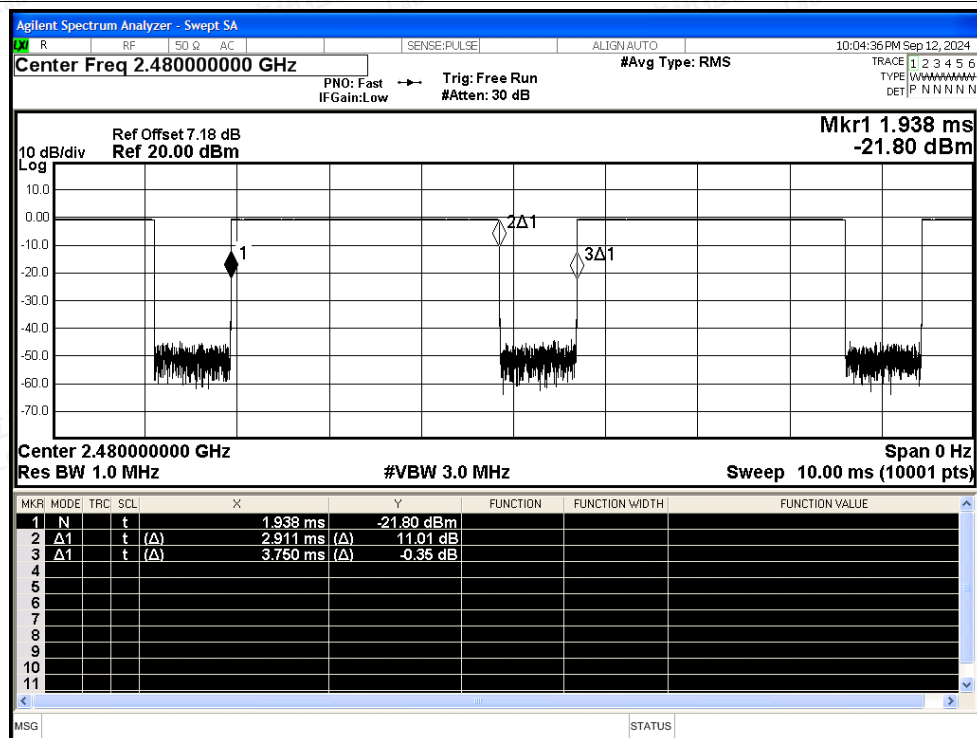
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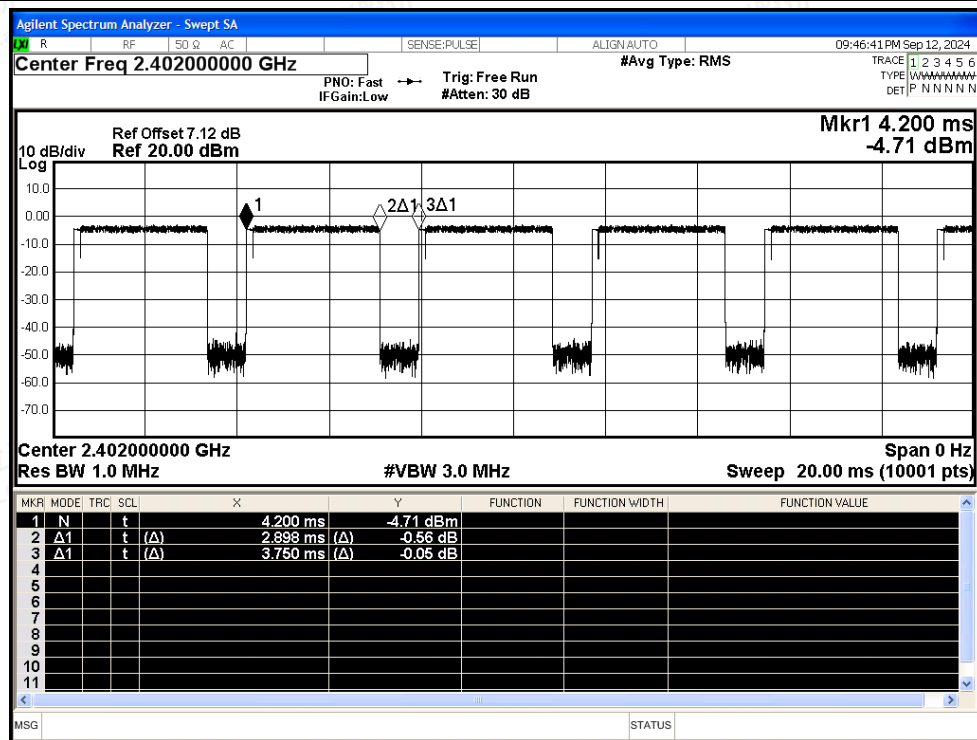
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Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

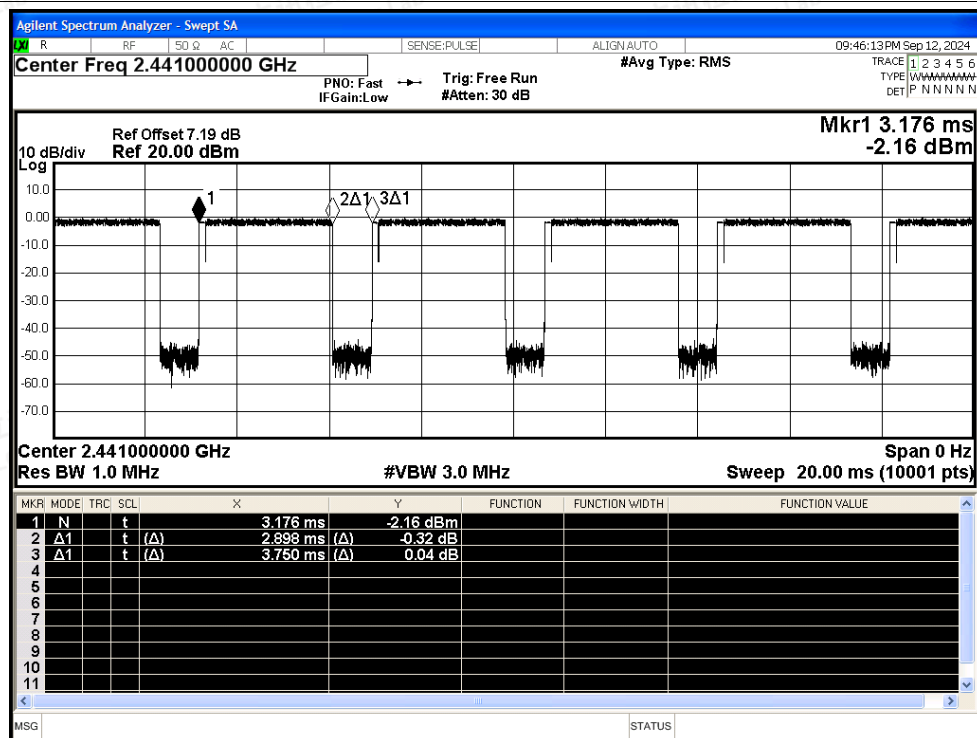
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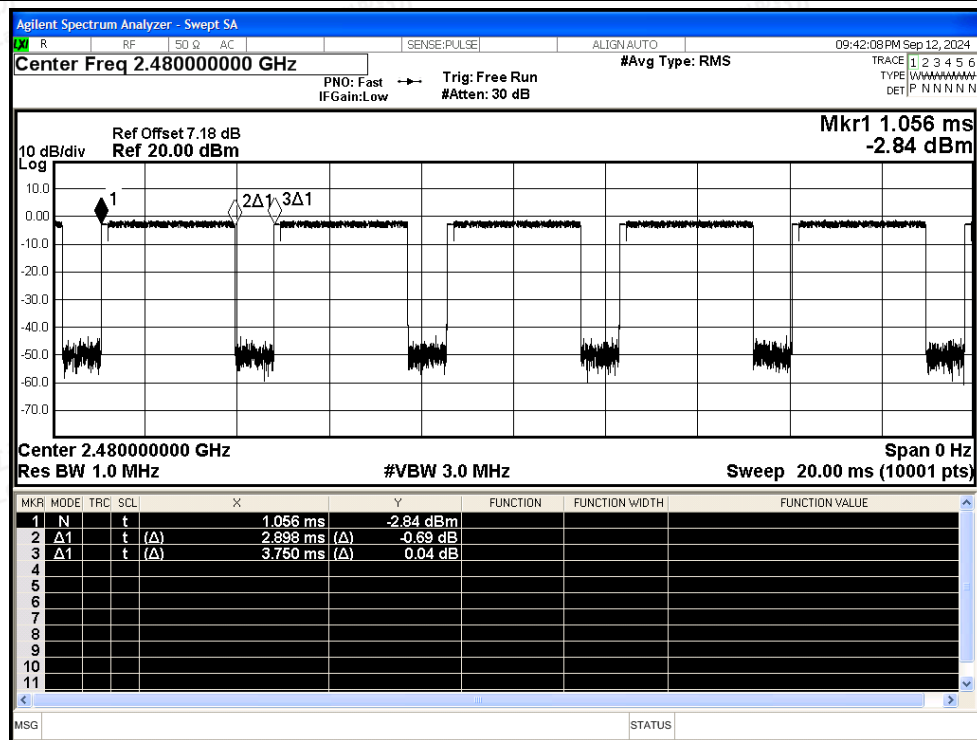
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Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz 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	-45.8	2.00	-	51.46	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-53.76	2.00	1.1	44.60	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2347.248	-42	2.00	-	55.26	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2365.2	-52.54	2.00	1.1	45.82	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-45.99	2.00	-	51.27	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-53.53	2.00	1.1	44.83	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-44.81	2.00	-	52.45	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-52.89	2.00	1.1	45.47	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2495.872	-42.01	2.00	-	55.25	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2491.648	-52.01	2.00	1.1	46.35	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-44.47	2.00	-	52.79	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-53.47	2.00	1.1	44.89	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-45.78	2.00	-	51.48	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-53.83	2.00	1.12	44.55	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2364.048	-42.05	2.00	-	55.21	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.856	-52.72	2.00	1.12	45.66	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-44.44	2.00	-	52.82	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-52.93	2.00	1.12	45.45	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-45.42	2.00	-	51.84	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-52.91	2.00	1.12	45.47	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2488.48	-42.02	2.00	-	55.24	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.712	-52.12	2.00	1.12	46.26	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-44.3	2.00	-	52.96	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-52.81	2.00	1.12	45.57	Average	54	Pass



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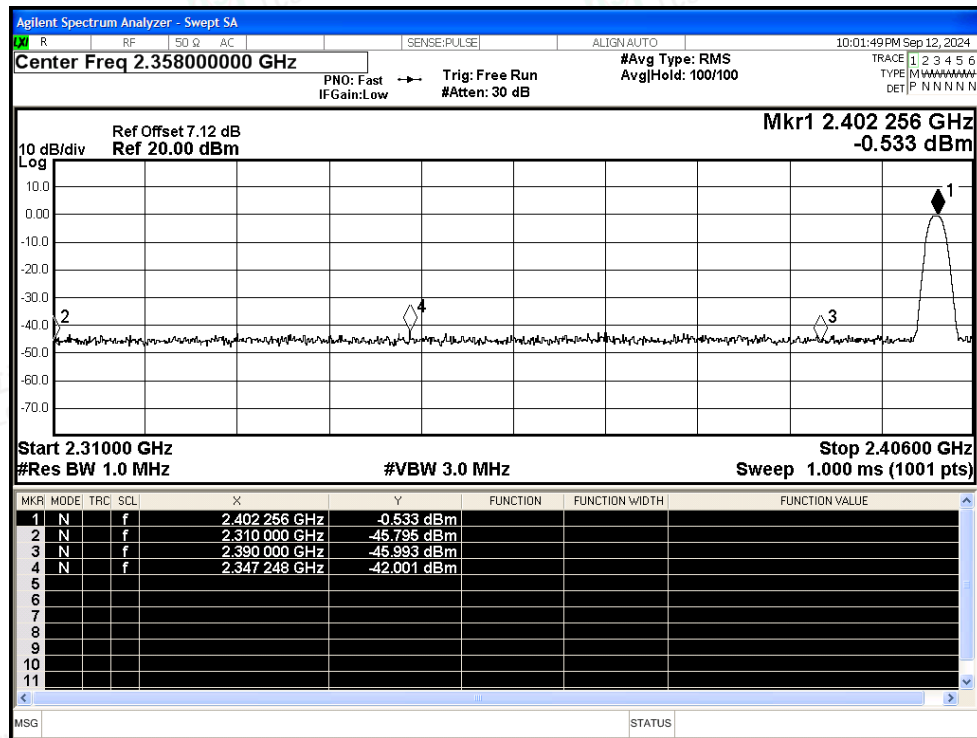
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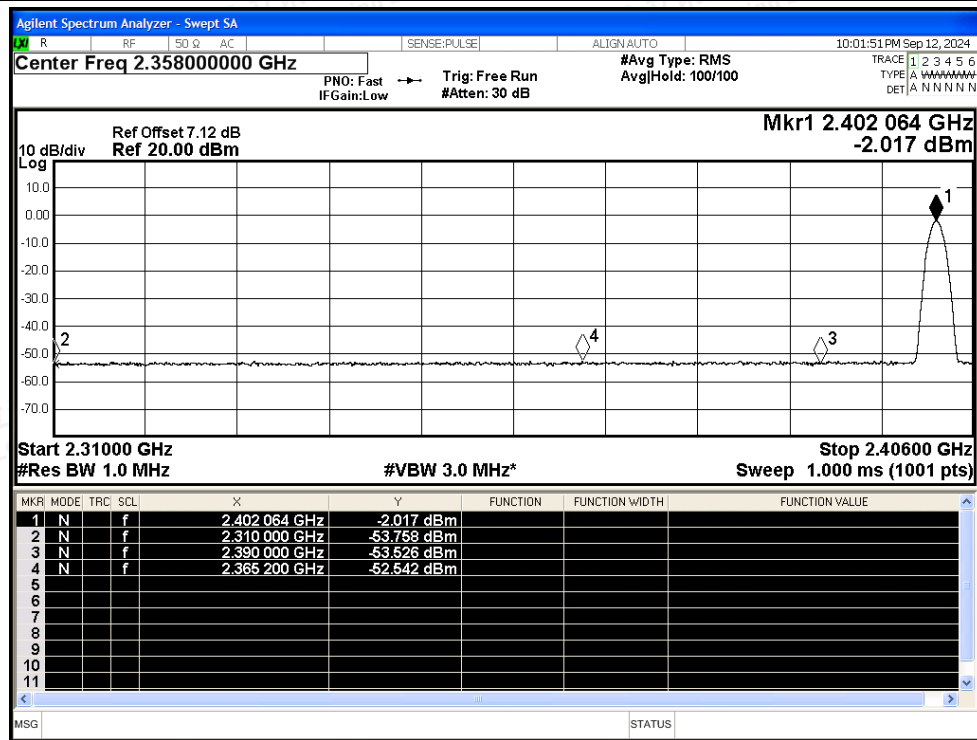


Test Graphs

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



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



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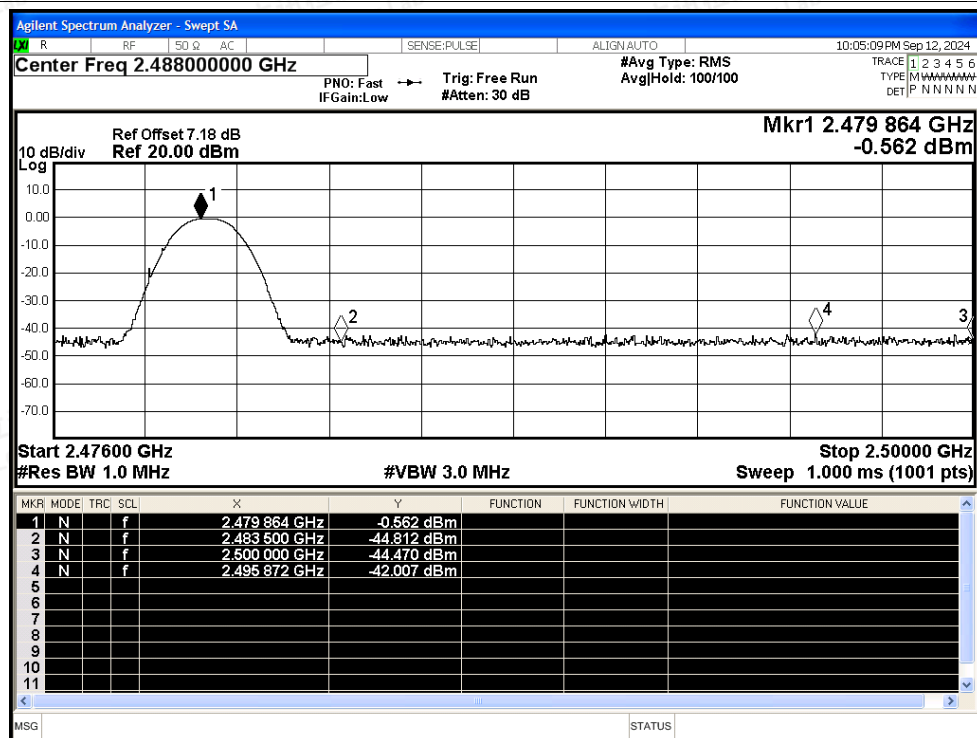
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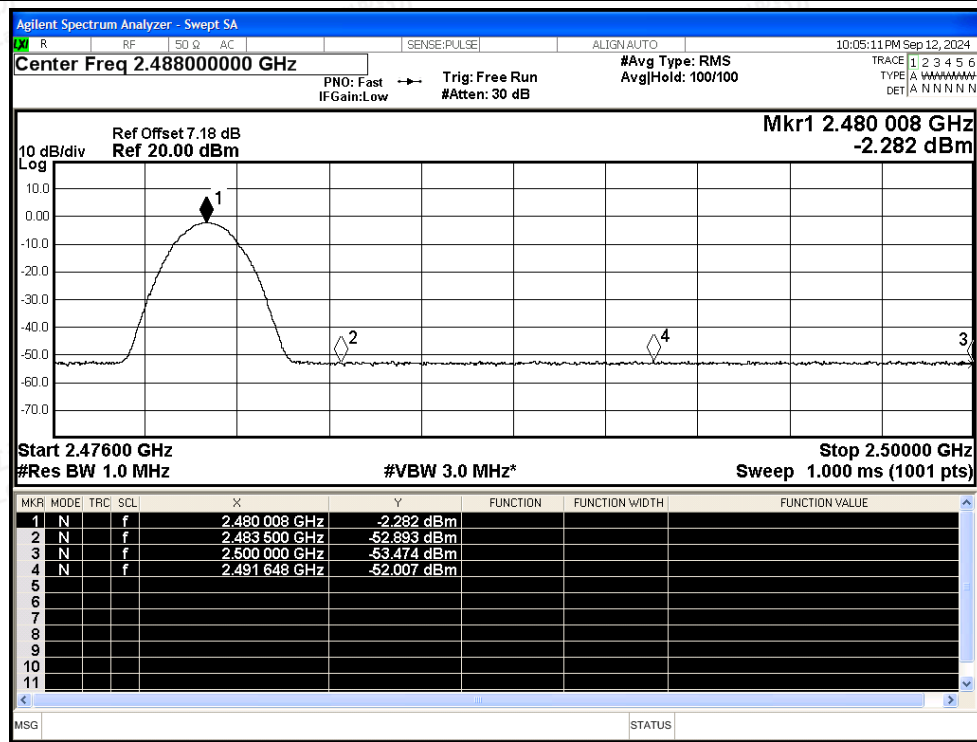
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



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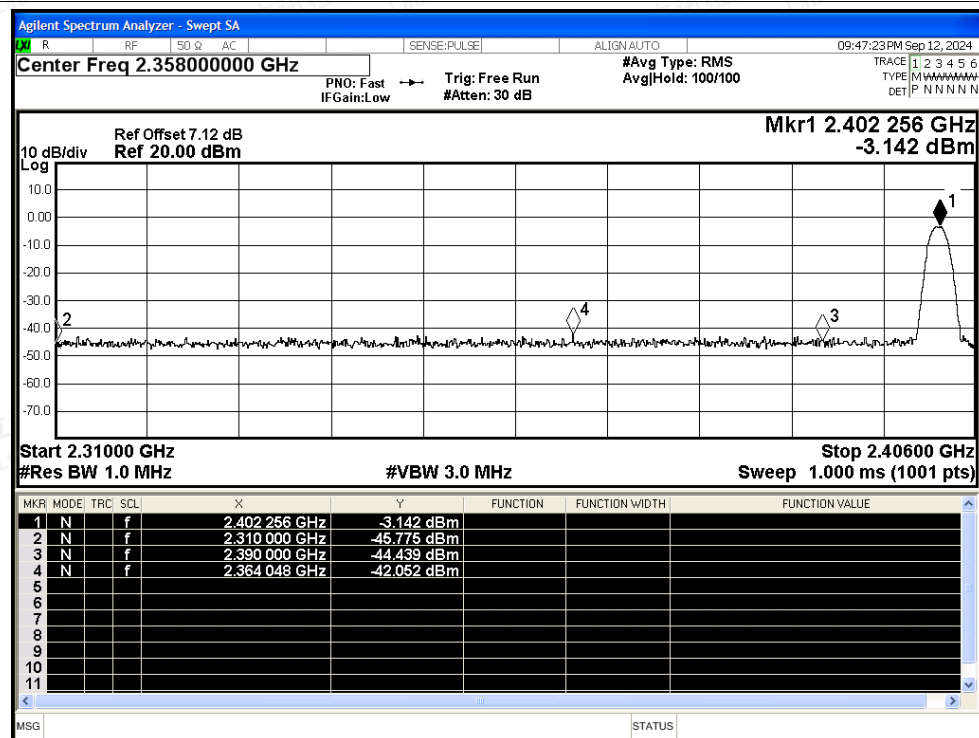
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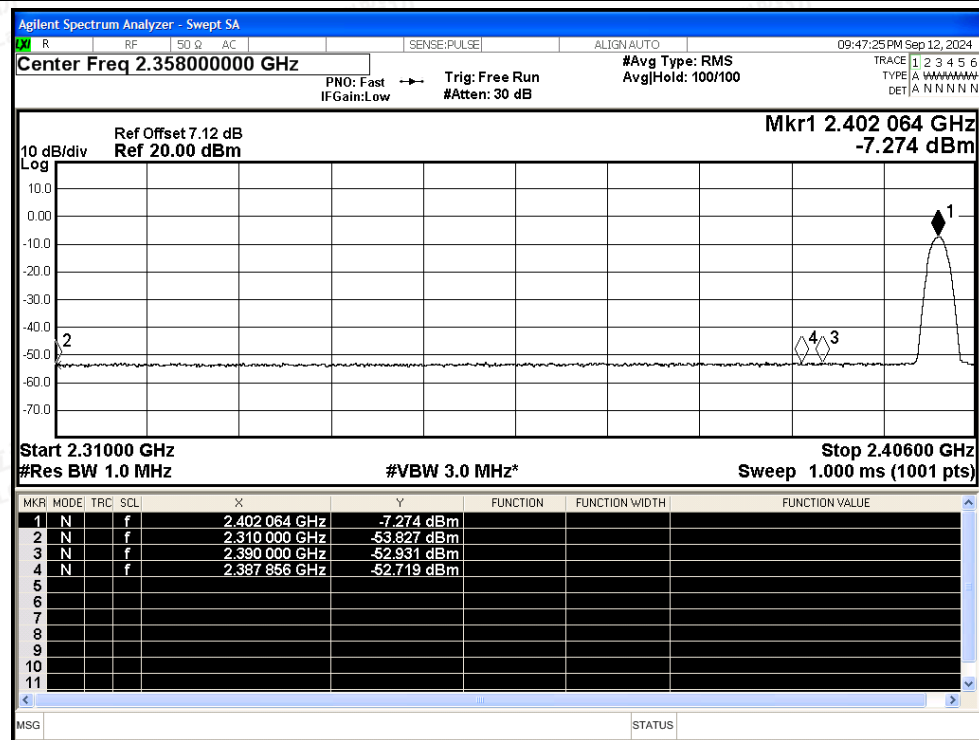
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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

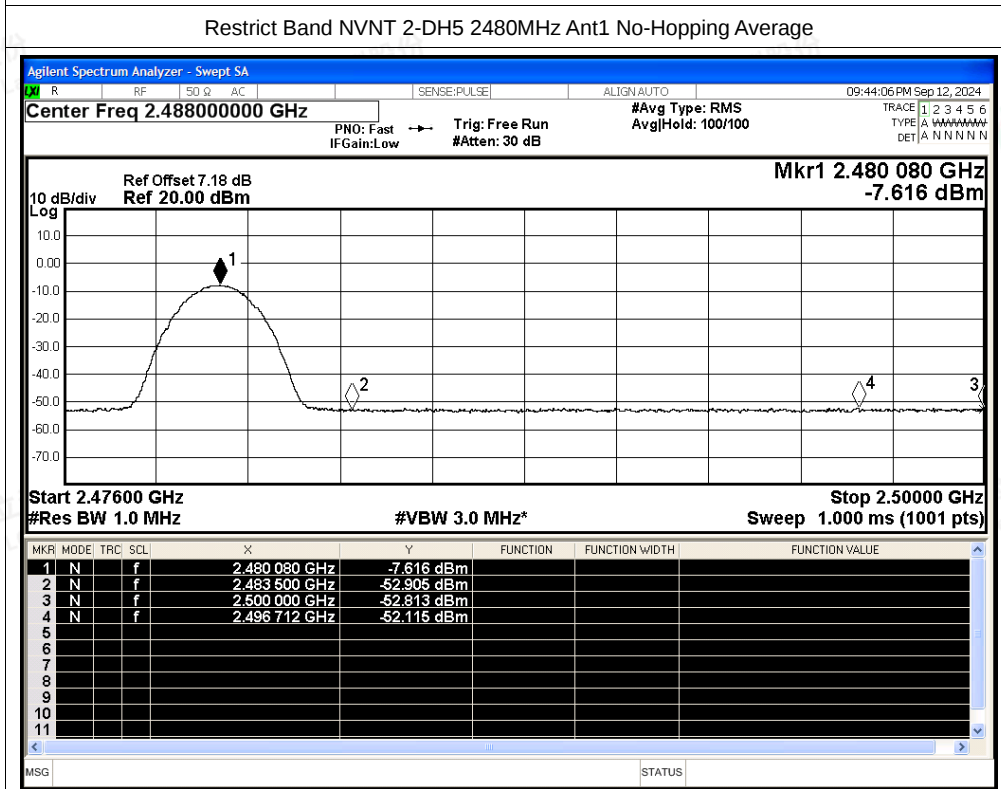
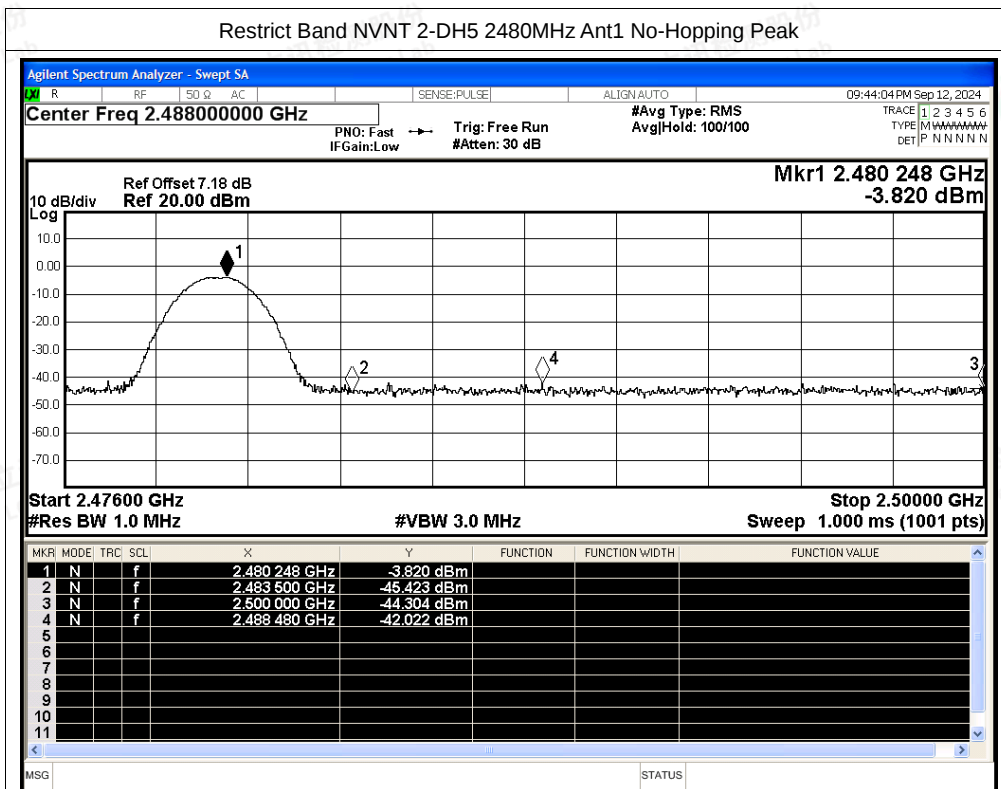


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