



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

FCC Appendix RF Test Data for BT

FCC ID : 2BHJR-NE918

Company : Shenzhen xiaoxiang supply chain technology co., ltd

EUT : HTC Wireless Earphones 91

Model Number : HTC NE91

Report No. : CTA26073002401

Reviewed By : Eric Wang



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Dwell Time

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.381	120.396	316	31600	<=400	Pass
1-DH3	2441	1.636	256.852	157	31600	<=400	Pass
1-DH5	2441	2.885	314.465	109	31600	<=400	Pass
2-DH1	2441	0.389	122.924	316	31600	<=400	Pass
2-DH3	2441	1.641	277.329	169	31600	<=400	Pass
2-DH5	2441	2.889	309.123	107	31600	<=400	Pass
3-DH1	2441	0.389	122.146	314	31600	<=400	Pass
3-DH3	2441	1.64	260.76	159	31600	<=400	Pass
3-DH5	2441	2.891	297.773	103	31600	<=400	Pass

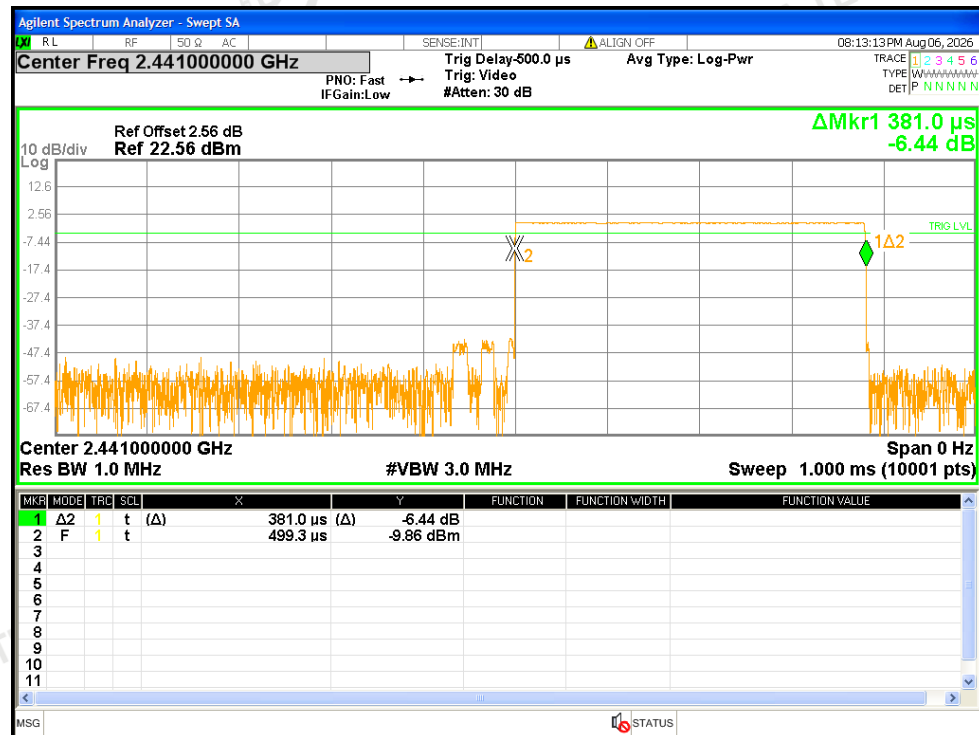


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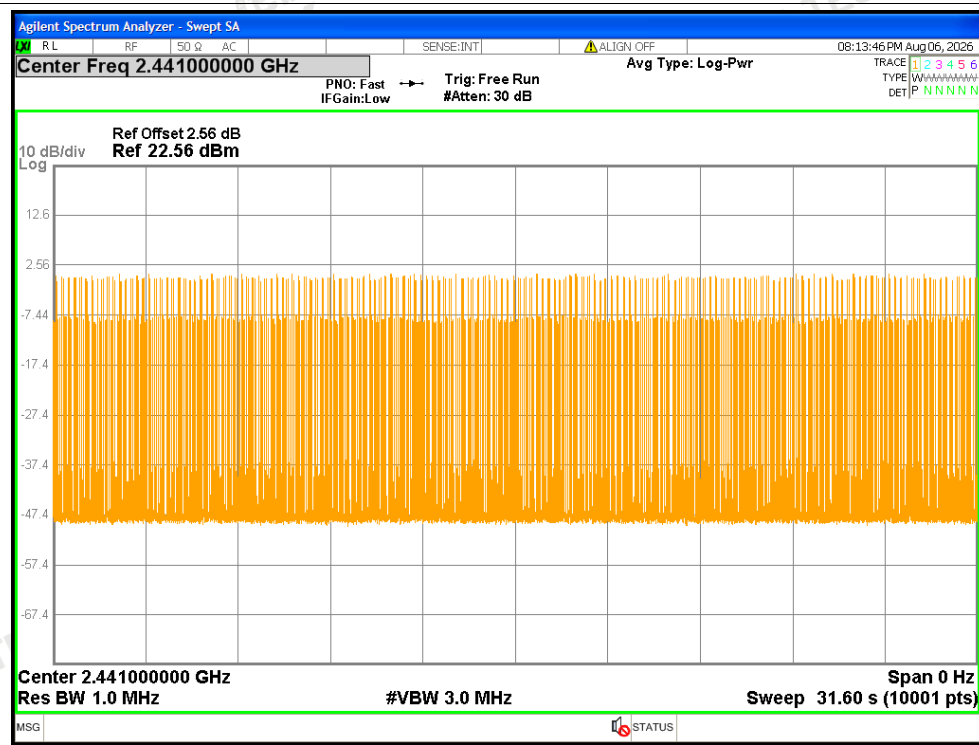
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Test Graphs

Dwell NVNT 1-DH1 2441MHz One Burst



Dwell NVNT 1-DH1 2441MHz Accumulated

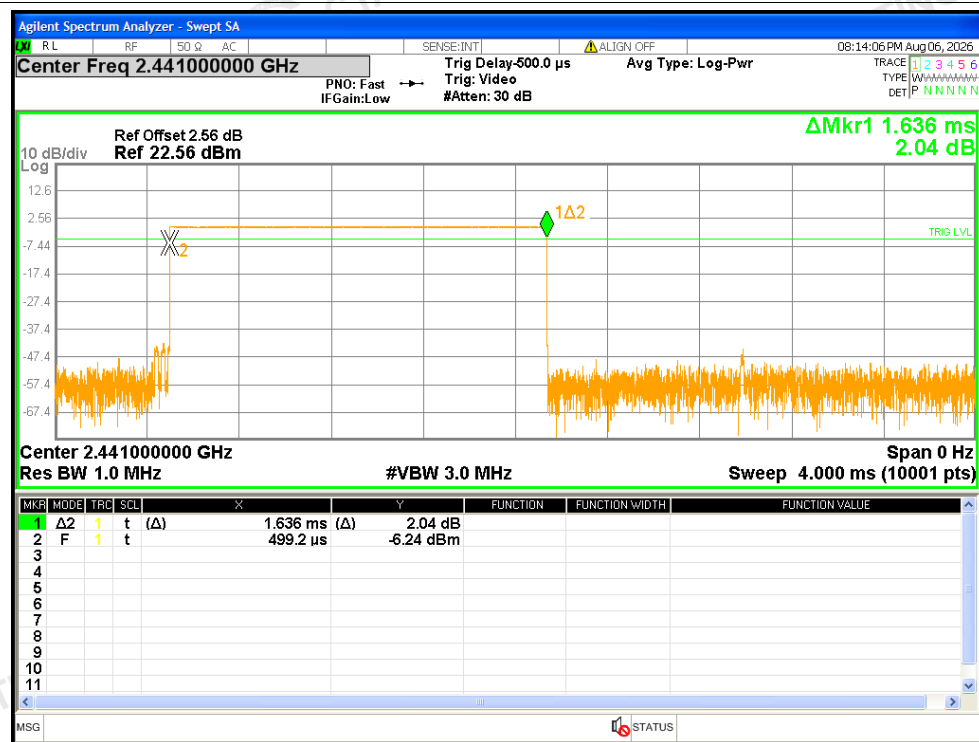




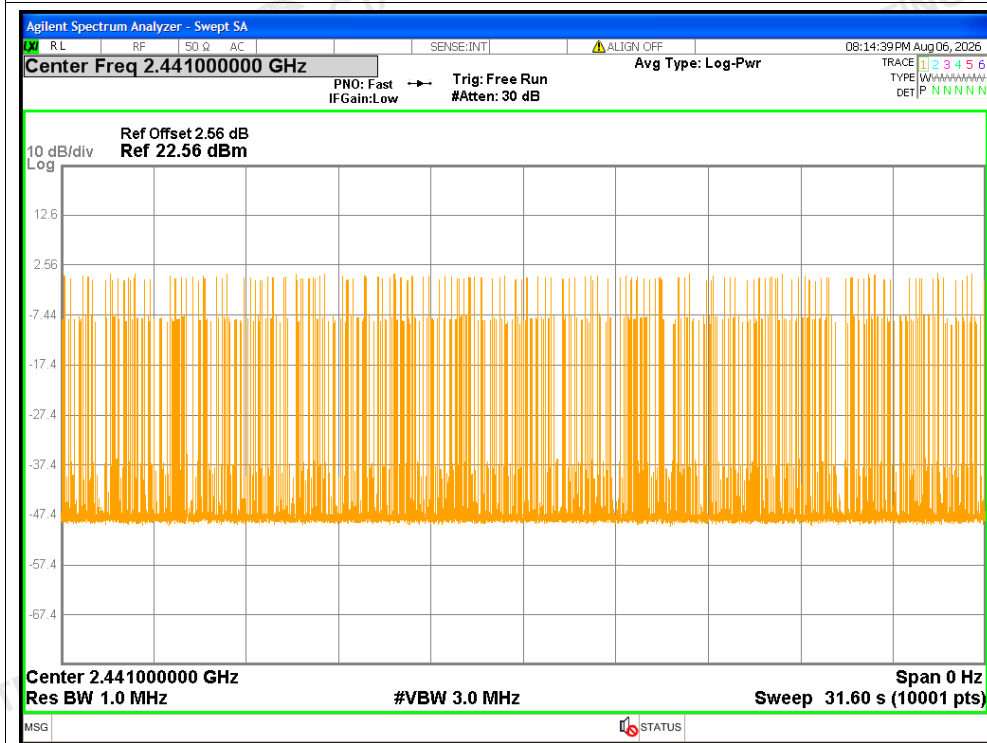
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Dwell NVNT 1-DH3 2441MHz One Burst



Dwell NVNT 1-DH3 2441MHz Accumulated





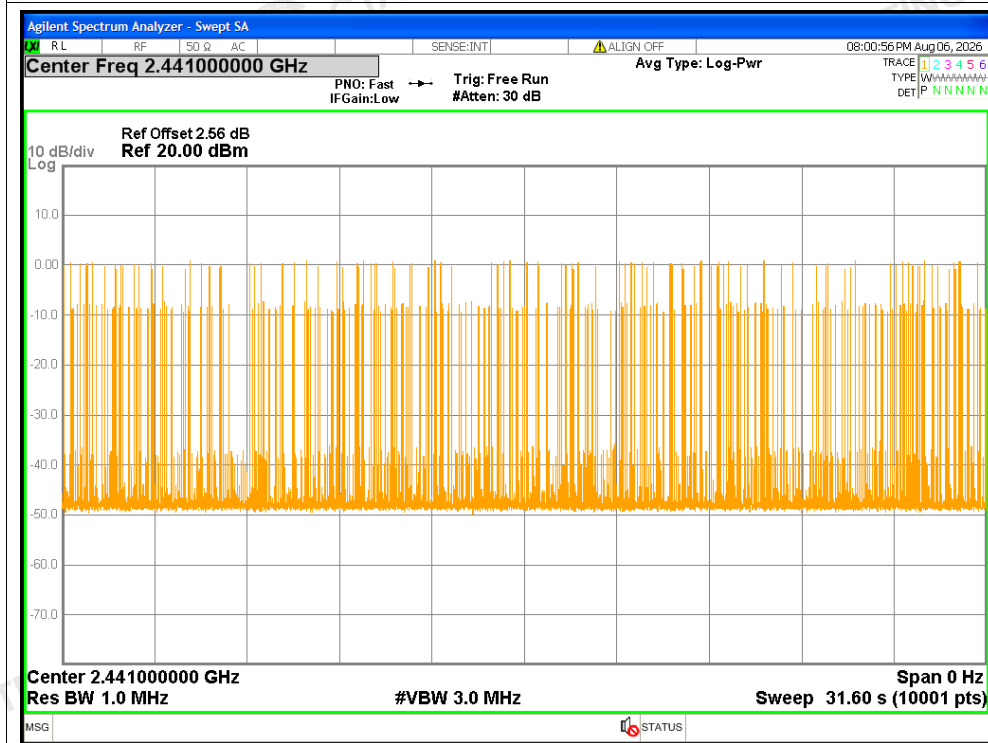
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Dwell NVNT 1-DH5 2441MHz One Burst



Dwell NVNT 1-DH5 2441MHz Accumulated

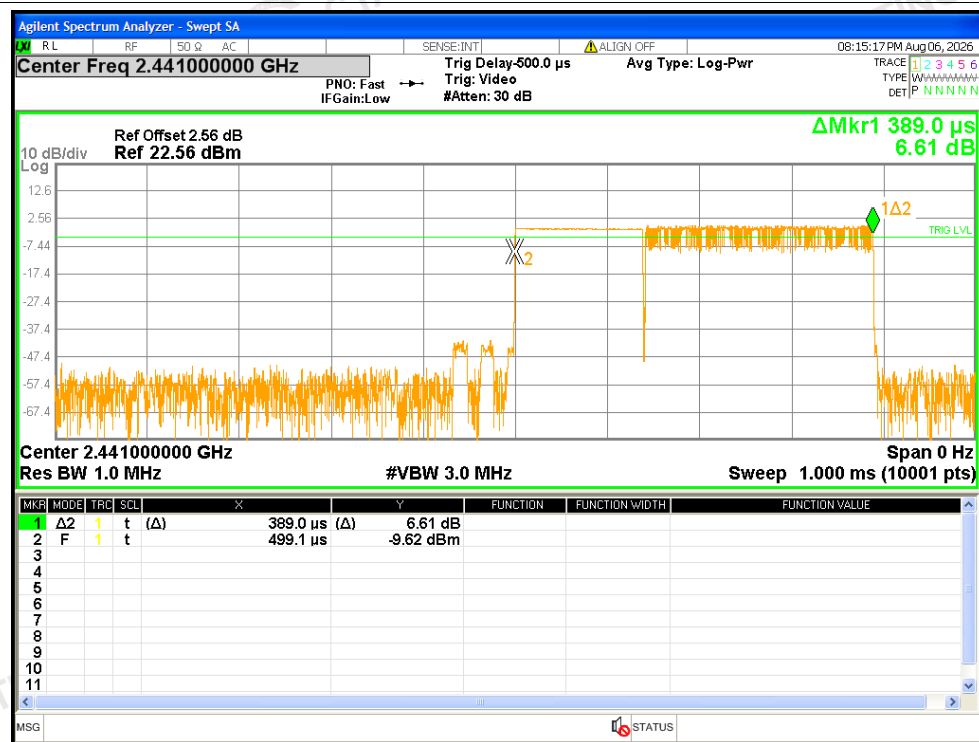




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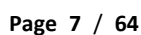
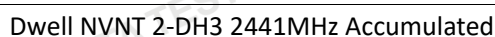
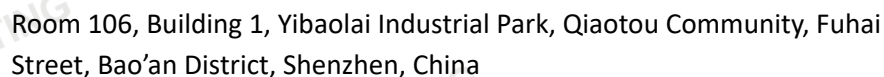
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Dwell NVNT 2-DH1 2441MHz One Burst



Dwell NVNT 2-DH1 2441MHz Accumulated



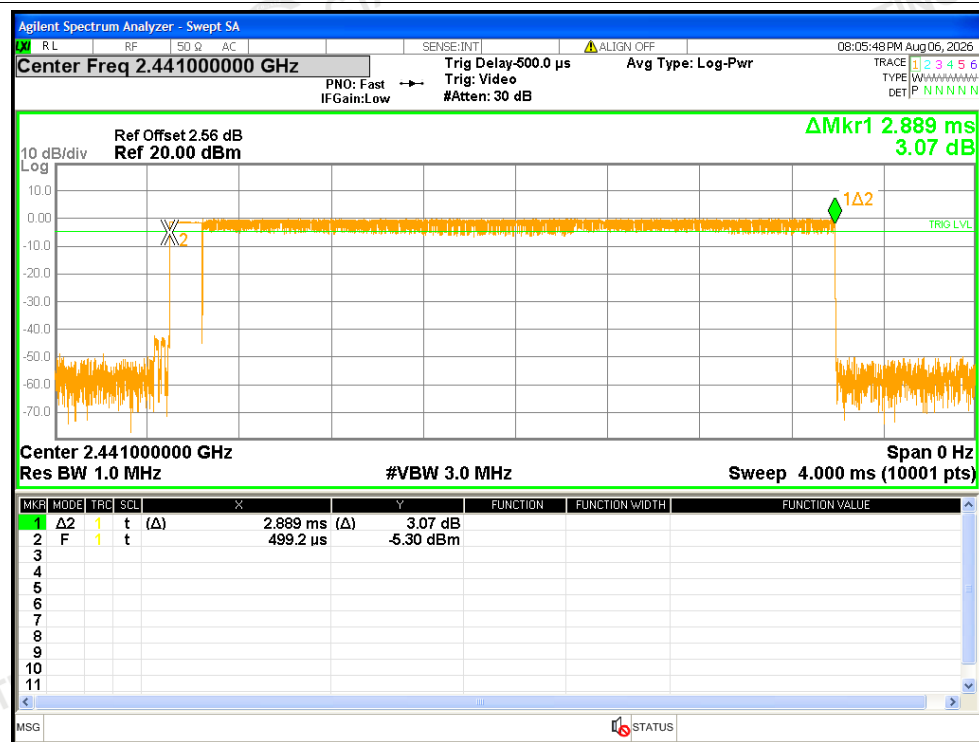




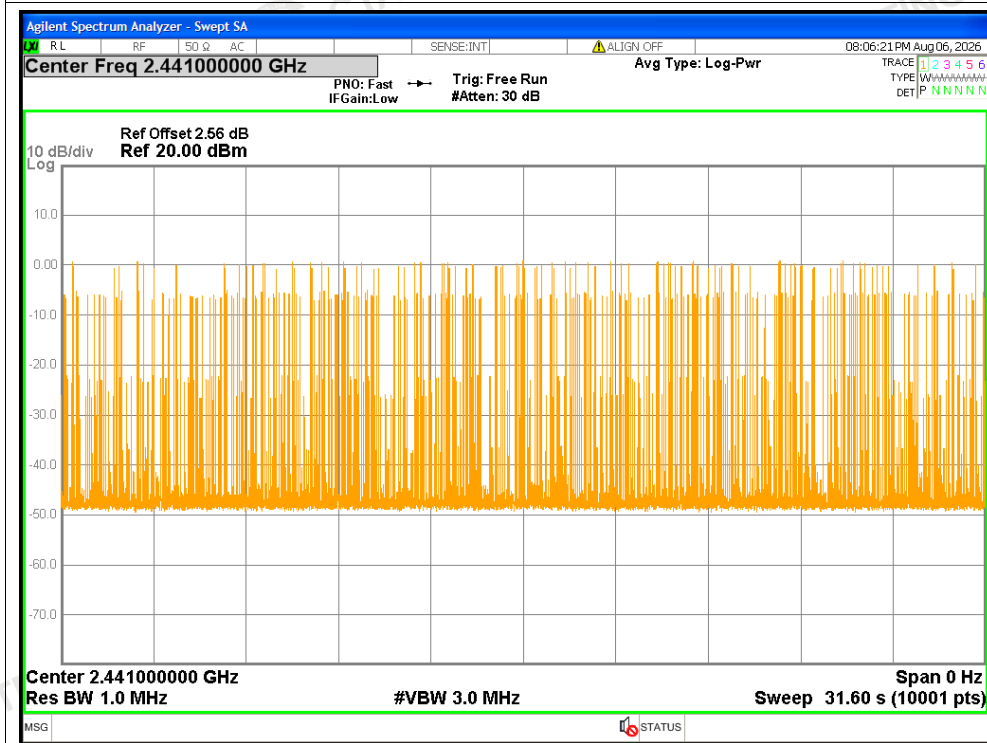
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Dwell NVNT 2-DH5 2441MHz One Burst



Dwell NVNT 2-DH5 2441MHz Accumulated

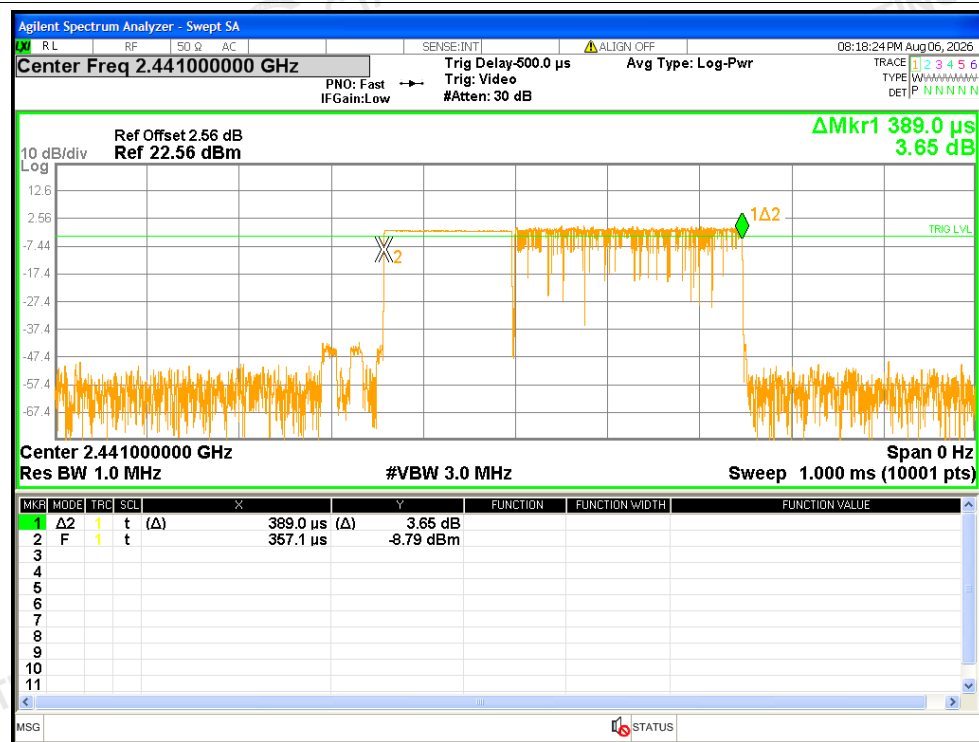




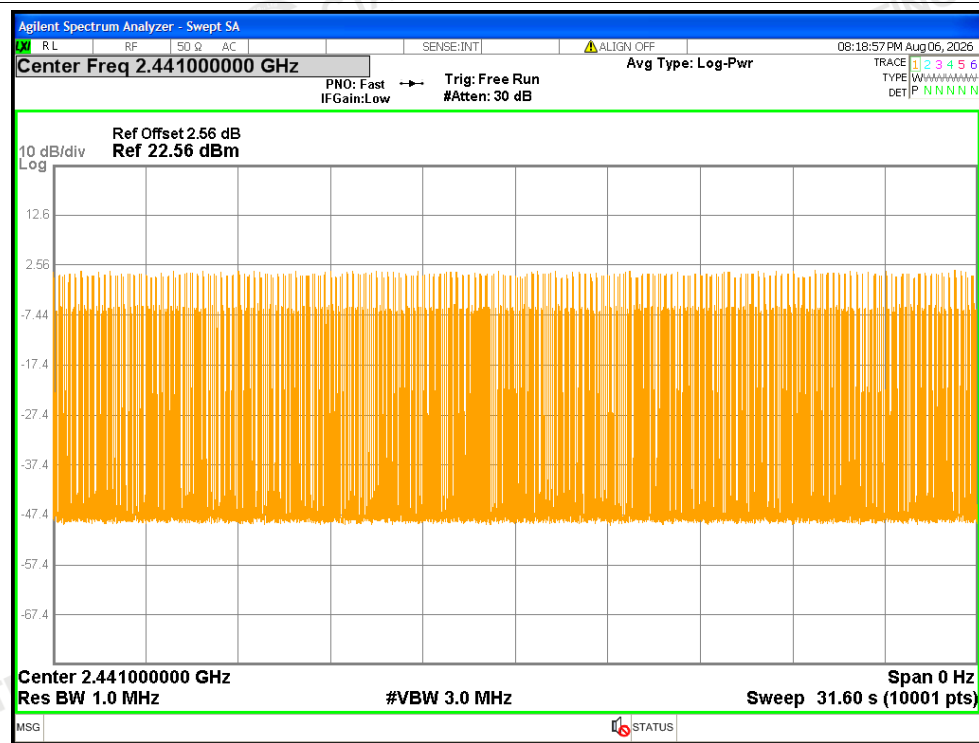
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Dwell NVNT 3-DH1 2441MHz One Burst



Dwell NVNT 3-DH1 2441MHz Accumulated





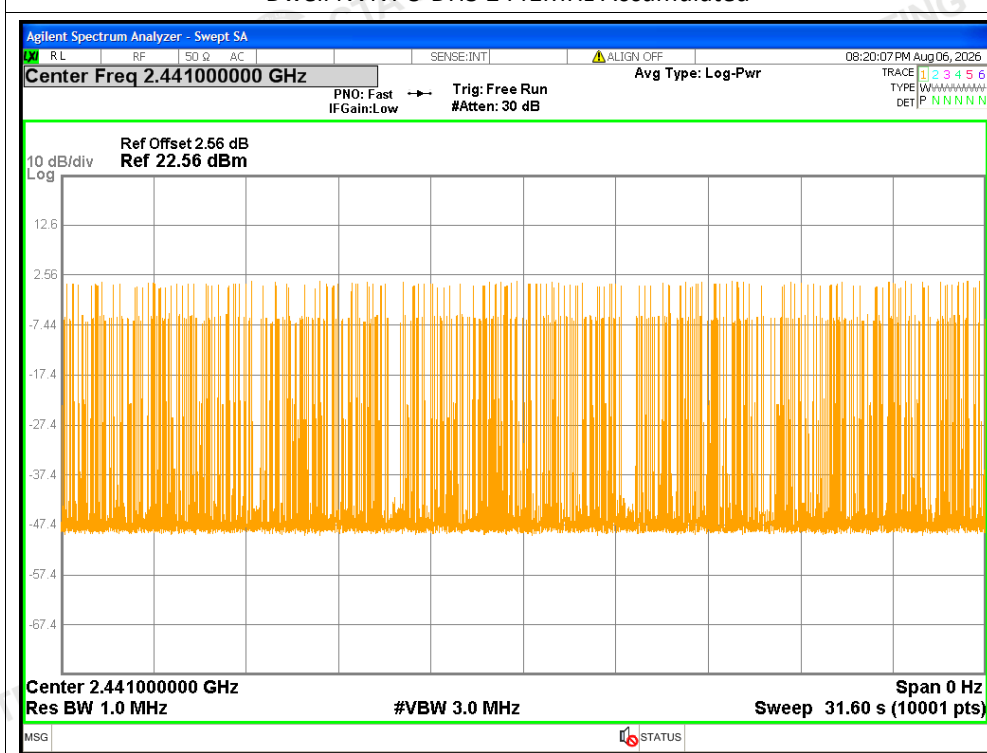
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Dwell NVNT 3-DH3 2441MHz One Burst



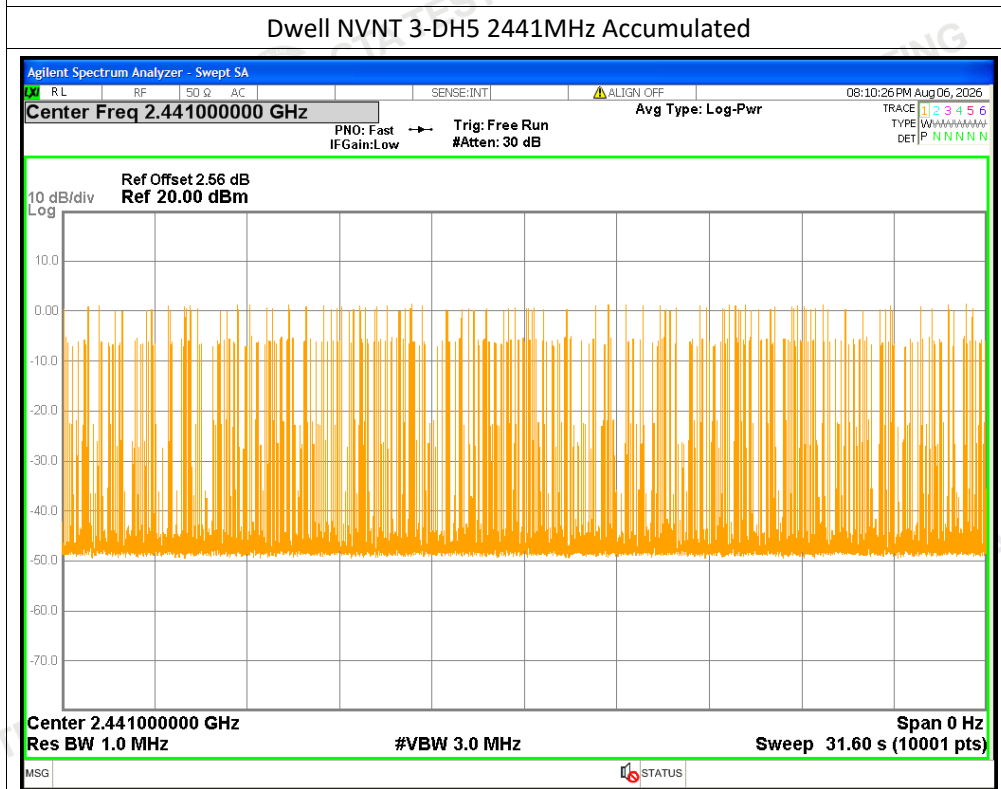
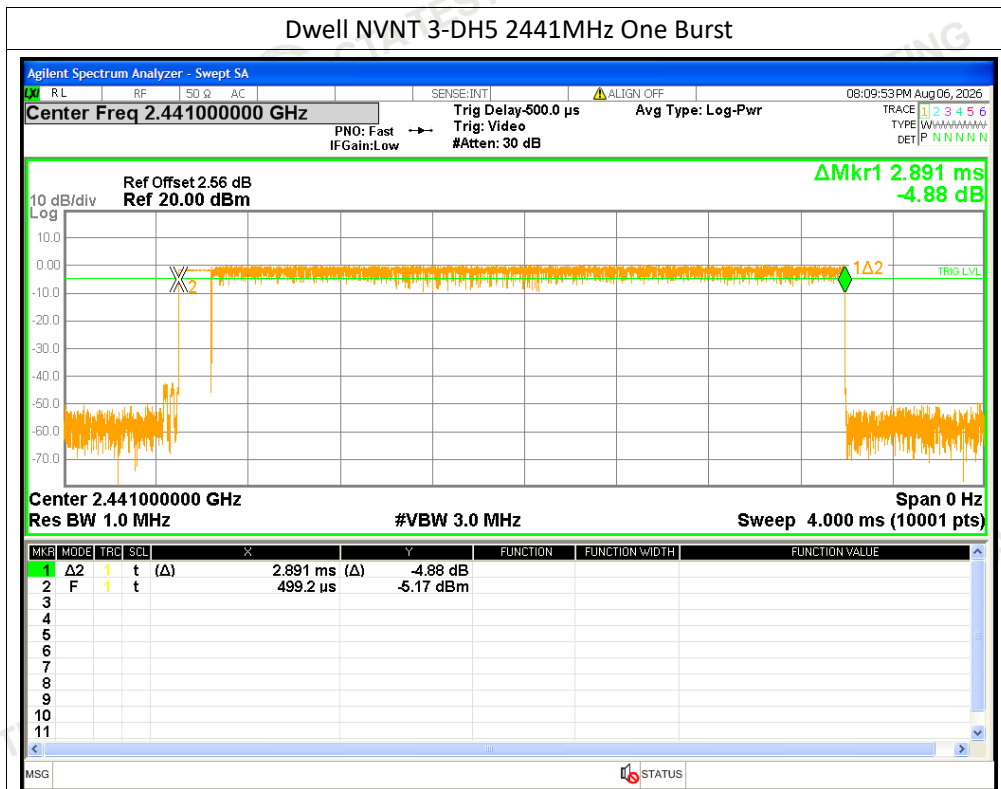
Dwell NVNT 3-DH3 2441MHz Accumulated





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Duty Cycle

Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
1-DH5	2402	2.886	3.75	76.96	1.14	0.35
1-DH5	2441	2.886	3.75	76.96	1.14	0.35
1-DH5	2480	2.886	3.75	76.96	1.14	0.35
2-DH5	2402	2.889	3.75	77.04	1.13	0.35
2-DH5	2441	2.889	3.75	77.04	1.13	0.35
2-DH5	2480	2.889	3.75	77.04	1.13	0.35
3-DH5	2402	2.892	3.75	77.12	1.13	0.35
3-DH5	2441	2.892	3.75	77.12	1.13	0.35
3-DH5	2480	2.892	3.75	77.12	1.13	0.35

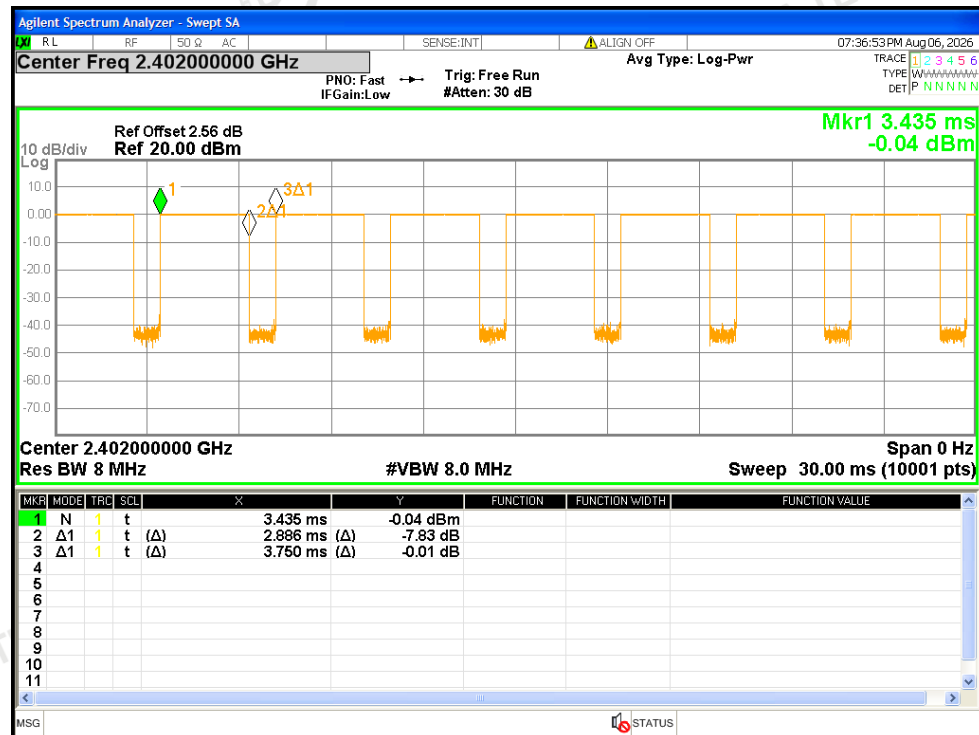


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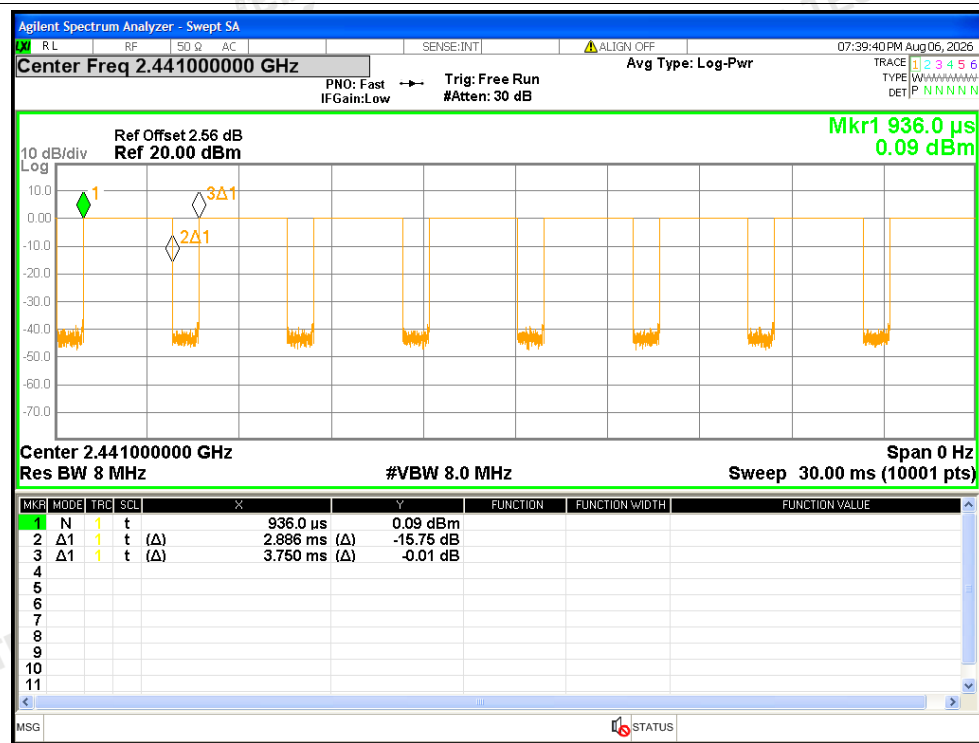
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Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz



Duty Cycle NVNT 1-DH5 2441MHz

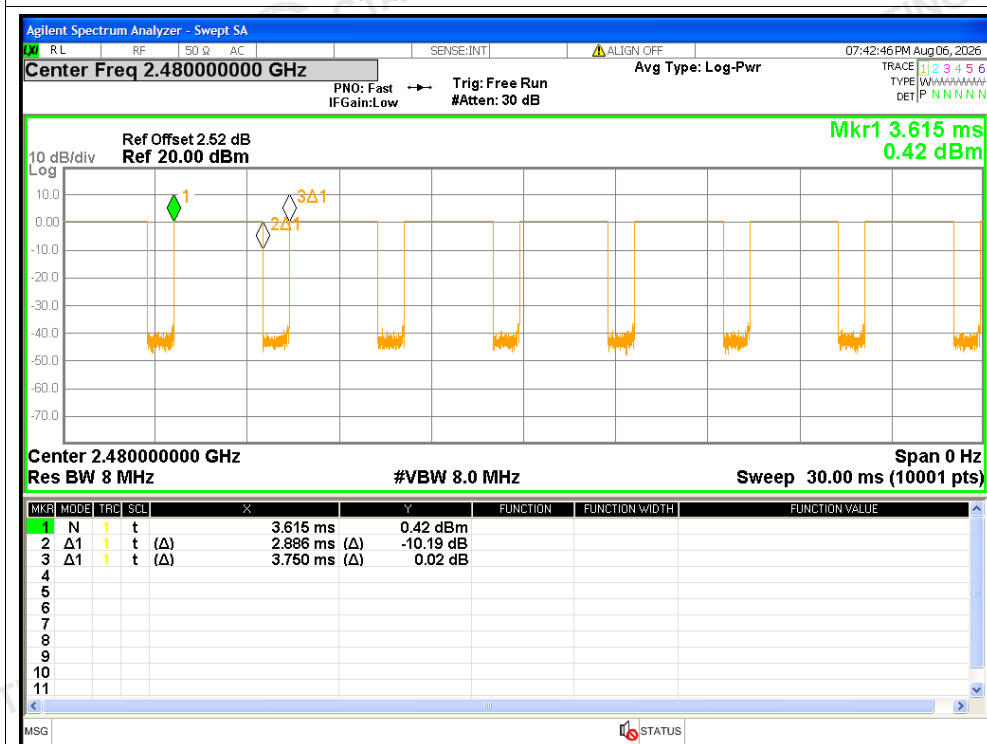




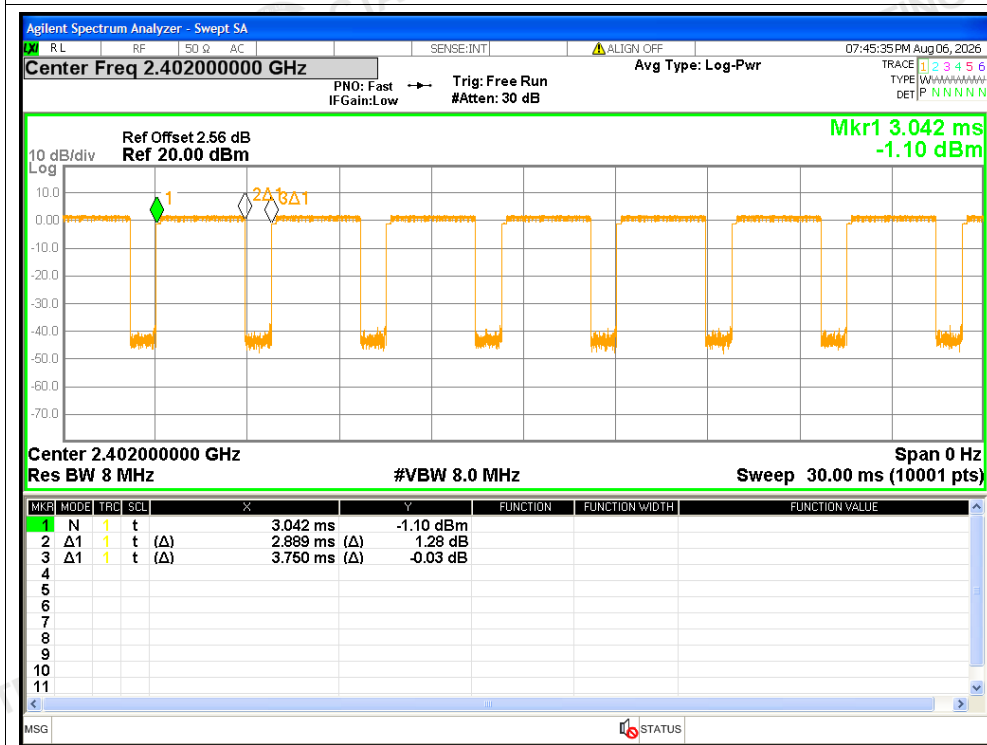
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Duty Cycle NVNT 1-DH5 2480MHz



Duty Cycle NVNT 2-DH5 2402MHz

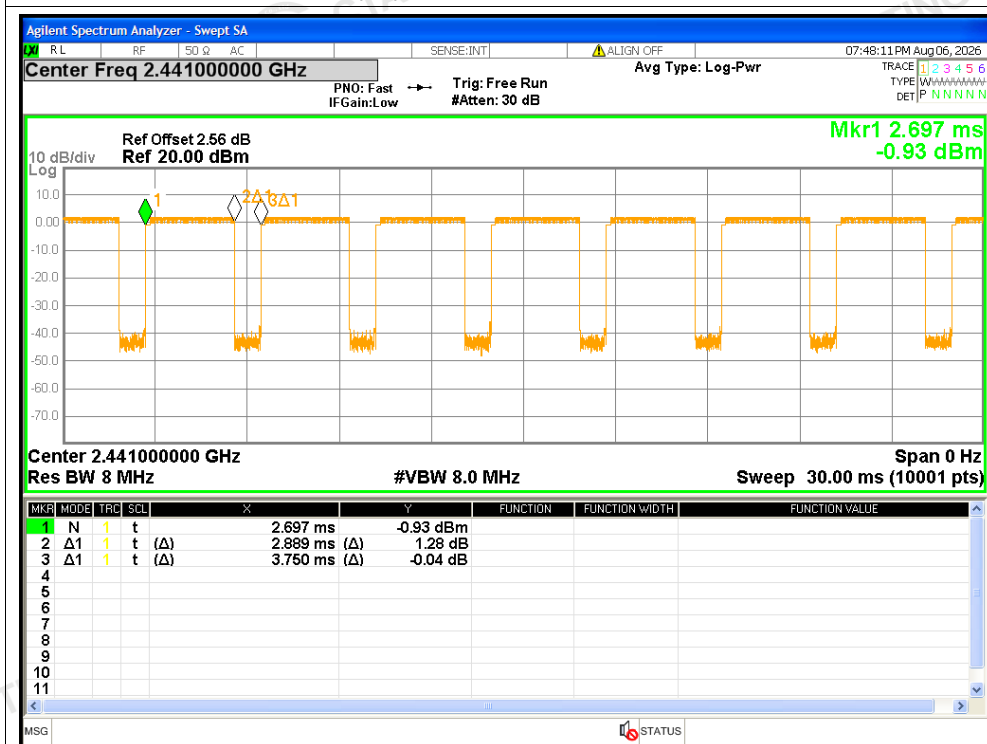




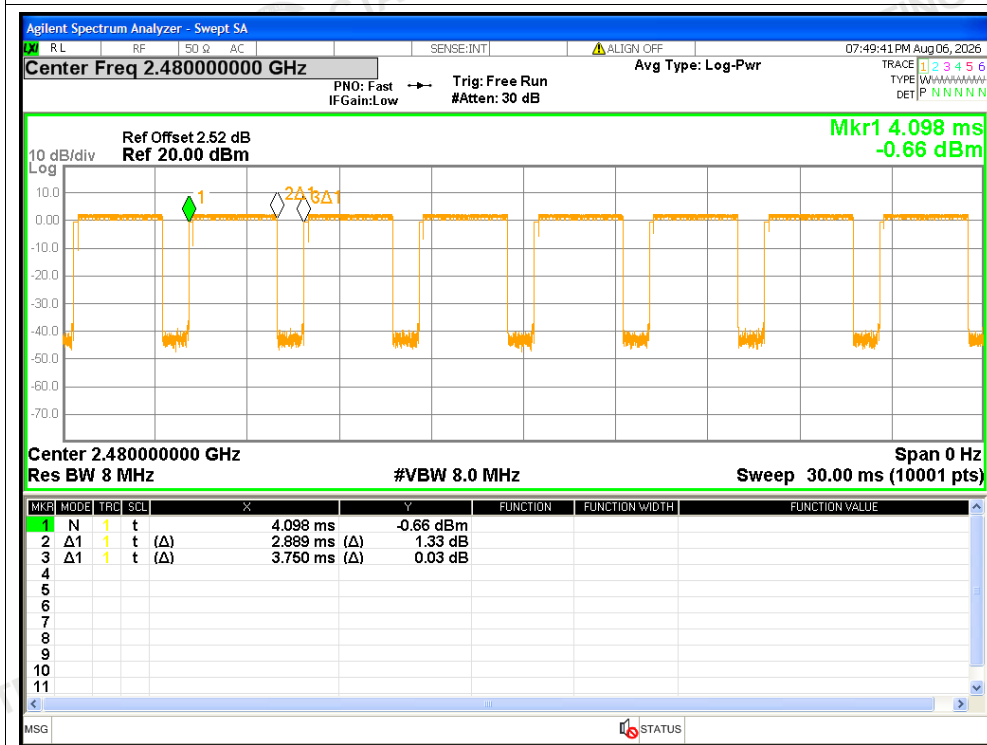
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Duty Cycle NVNT 2-DH5 2441MHz



Duty Cycle NVNT 2-DH5 2480MHz

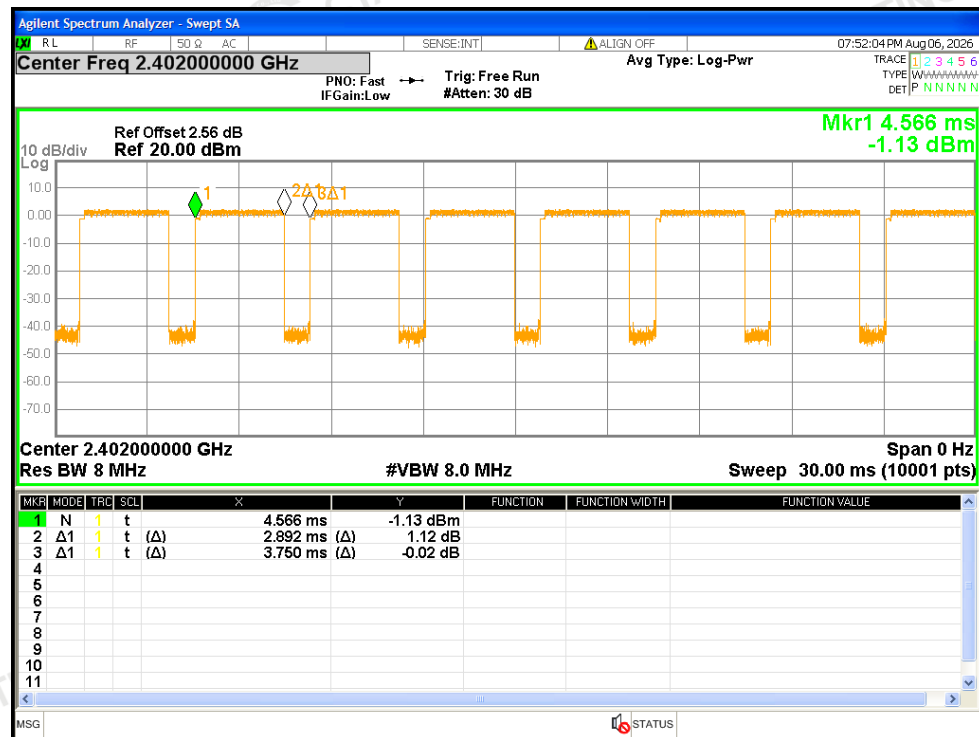




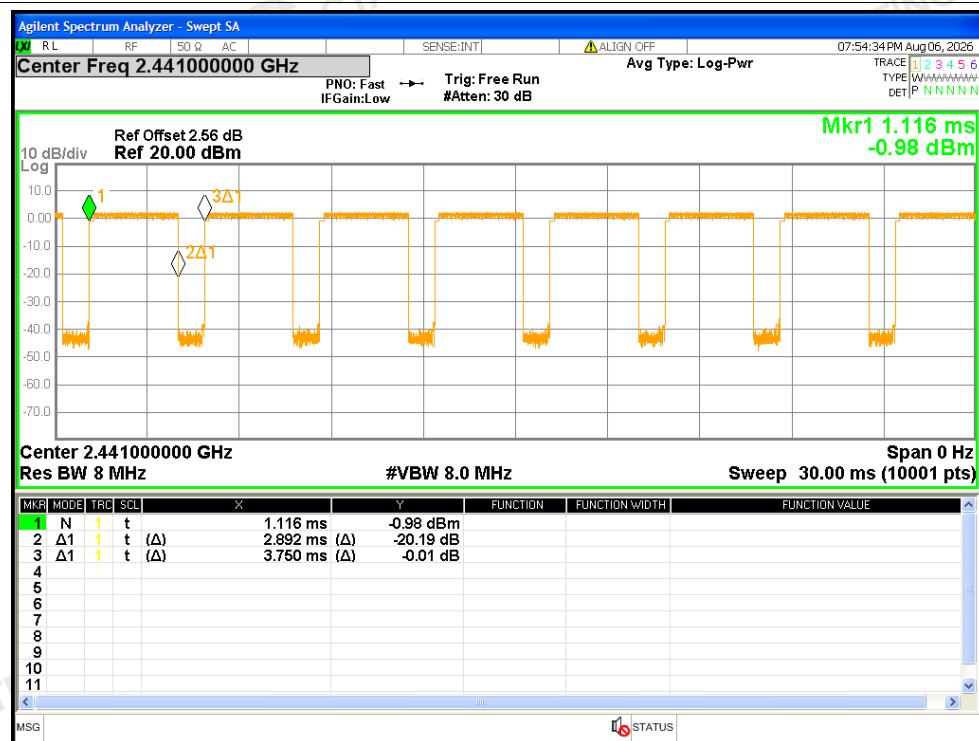
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Duty Cycle NVNT 3-DH5 2402MHz



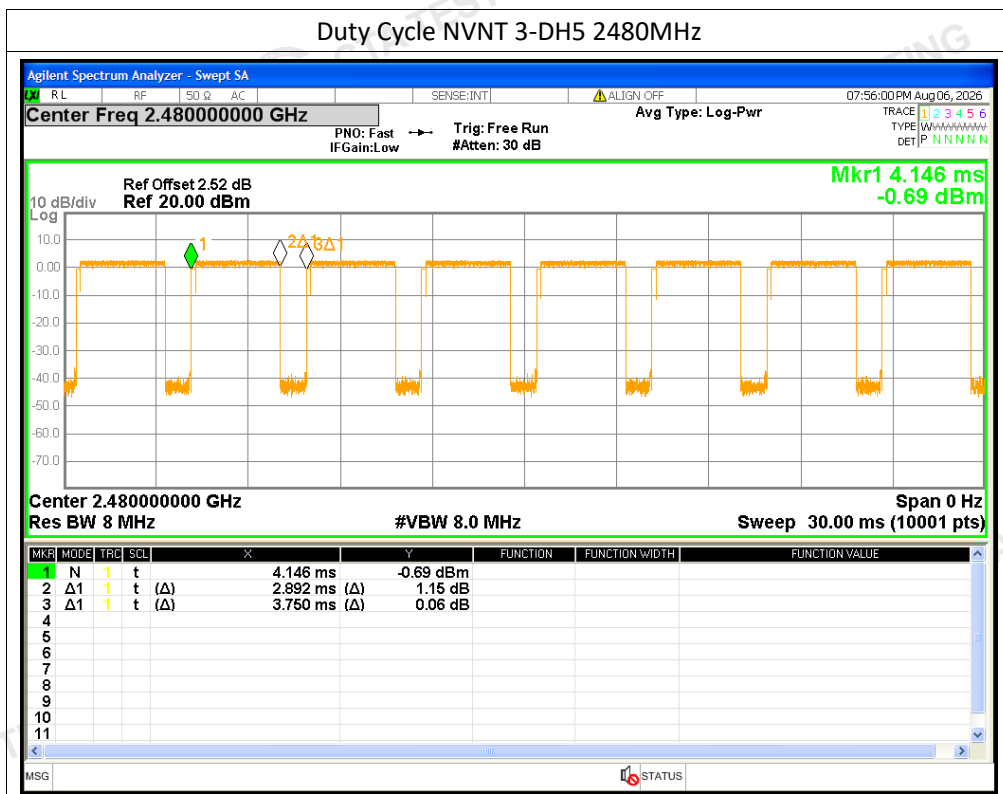
Duty Cycle NVNT 3-DH5 2441MHz





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Maximum Peak Conducted Output Power

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	0	≤ 30	Pass
1-DH5	2441	0.13	≤ 30	Pass
1-DH5	2480	0.47	≤ 30	Pass
2-DH5	2402	1.05	≤ 21	Pass
2-DH5	2441	1.11	≤ 21	Pass
2-DH5	2480	1.44	≤ 21	Pass
3-DH5	2402	1.23	≤ 21	Pass
3-DH5	2441	1.33	≤ 21	Pass
3-DH5	2480	1.66	≤ 21	Pass



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-20dB Bandwidth

Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
1-DH5	2402	0.9538	Pass
1-DH5	2441	0.953	Pass
1-DH5	2480	0.9533	Pass
2-DH5	2402	1.437	Pass
2-DH5	2441	1.492	Pass
2-DH5	2480	1.441	Pass
3-DH5	2402	1.513	Pass
3-DH5	2441	1.462	Pass
3-DH5	2480	1.476	Pass

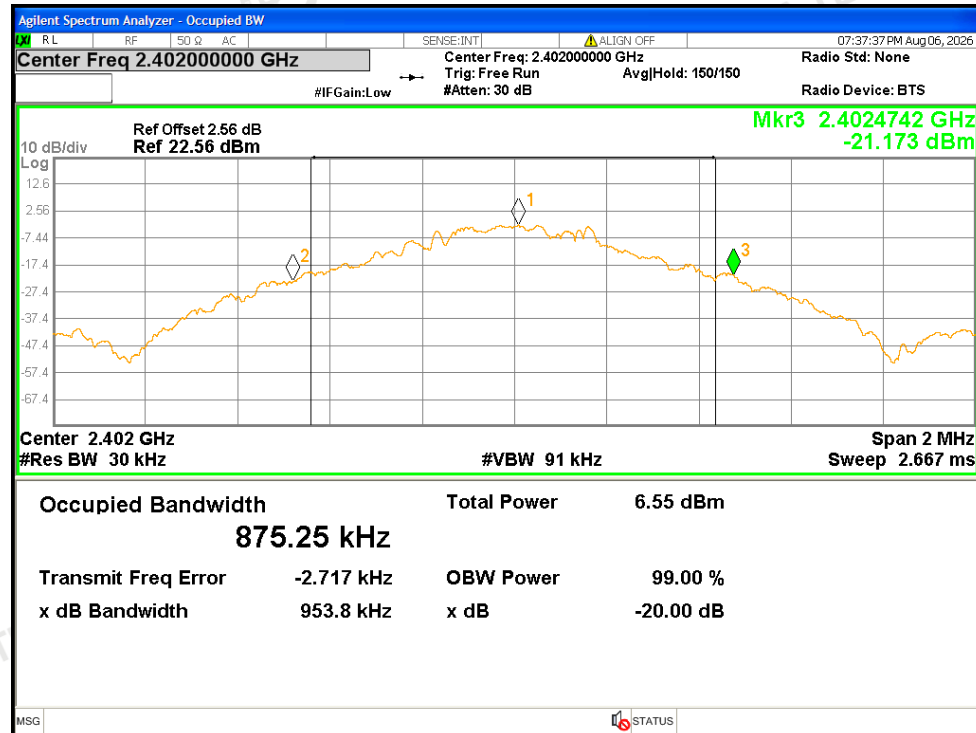


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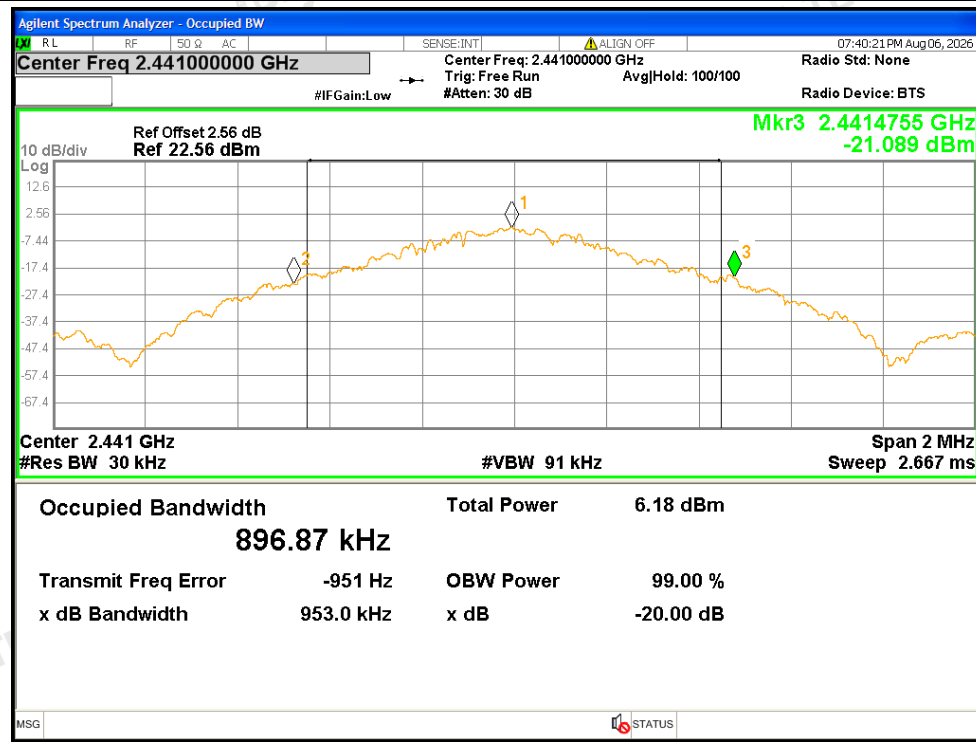
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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz



-20dB Bandwidth NVNT 1-DH5 2441MHz

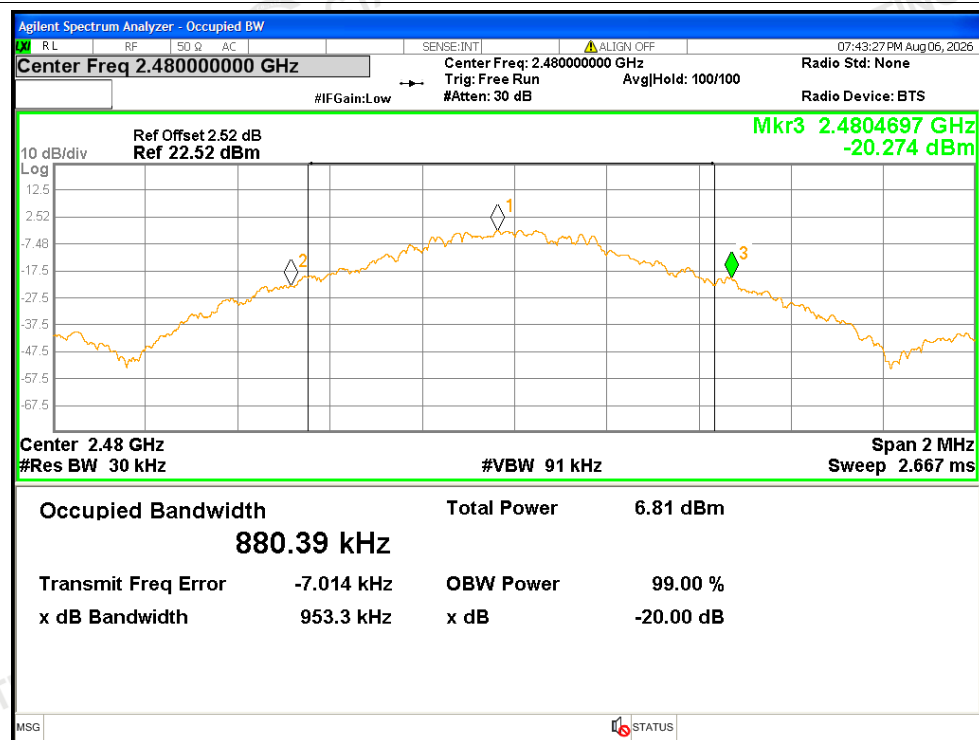




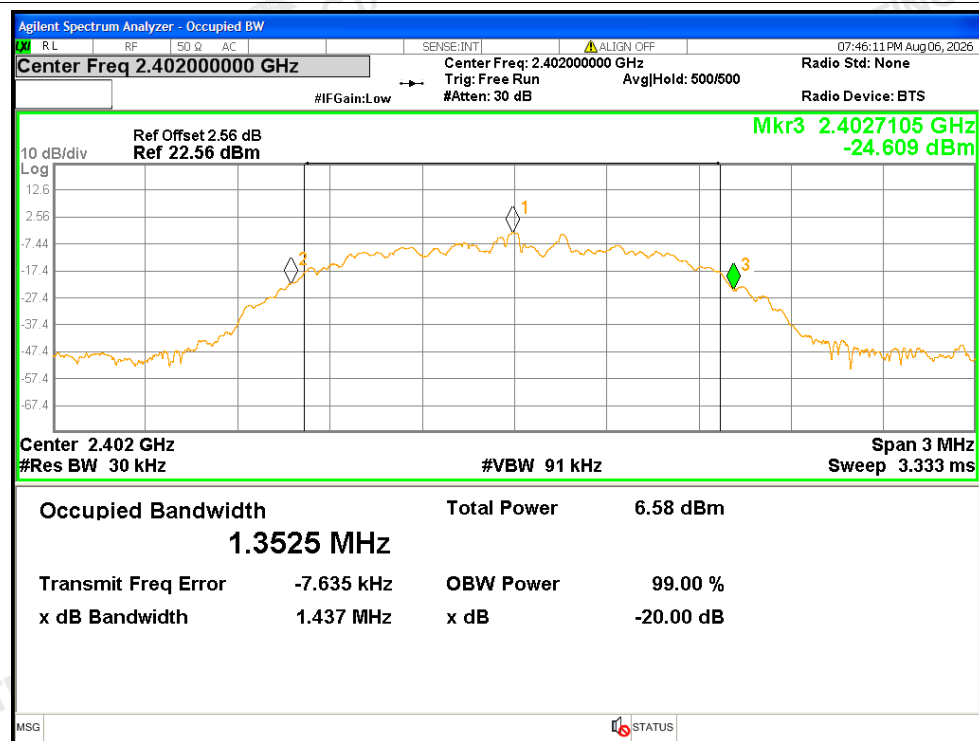
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-20dB Bandwidth NVNT 1-DH5 2480MHz



-20dB Bandwidth NVNT 2-DH5 2402MHz

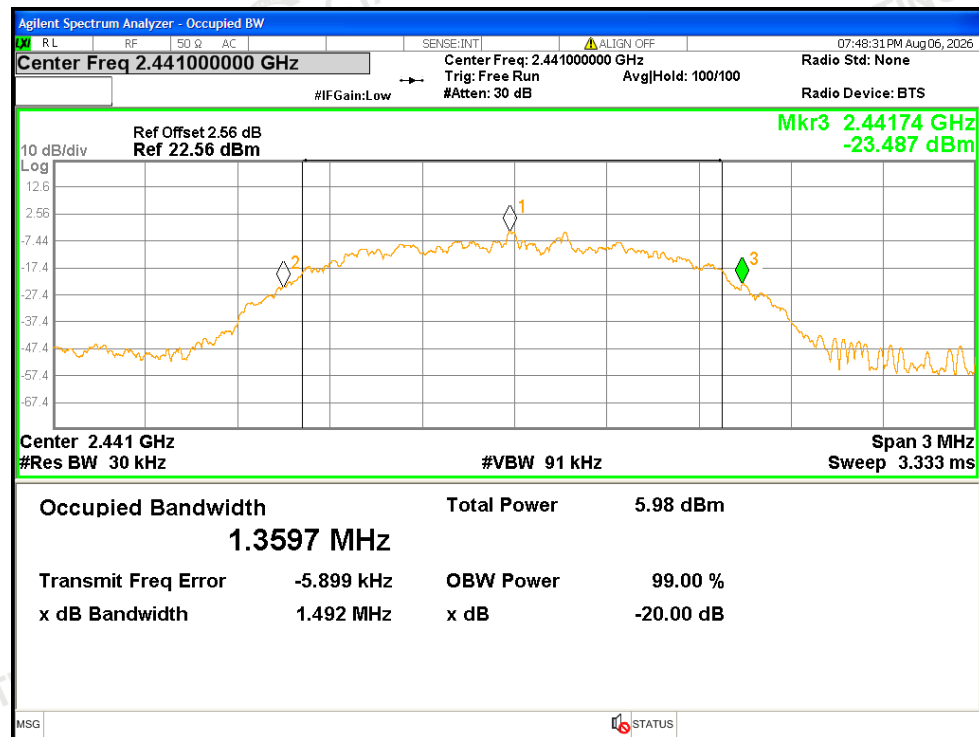




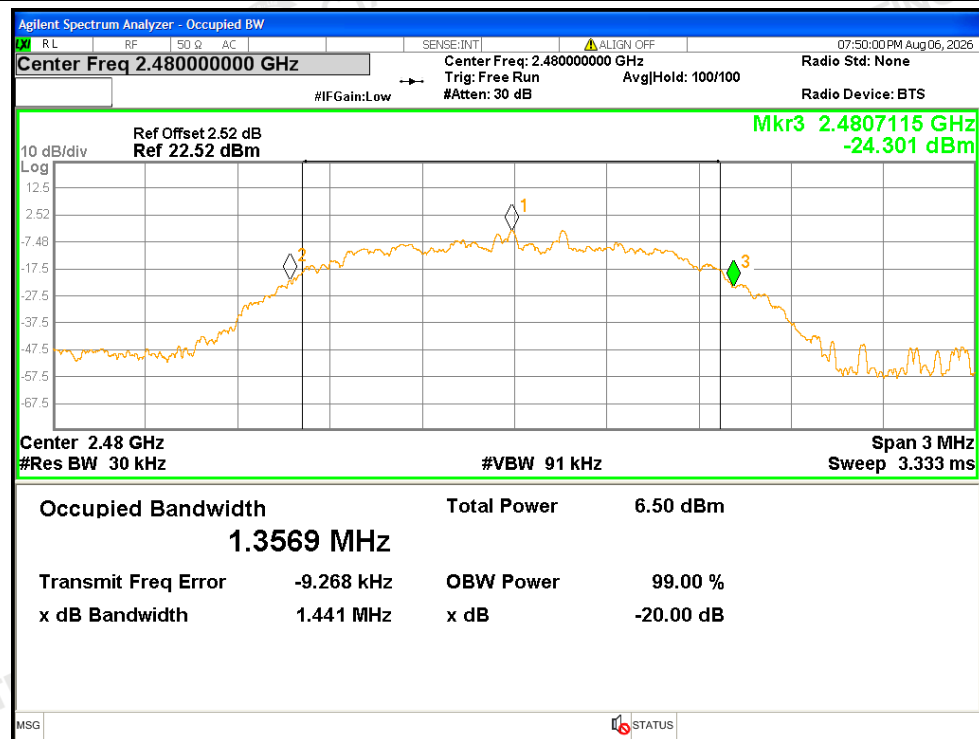
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-20dB Bandwidth NVNT 2-DH5 2441MHz



-20dB Bandwidth NVNT 2-DH5 2480MHz

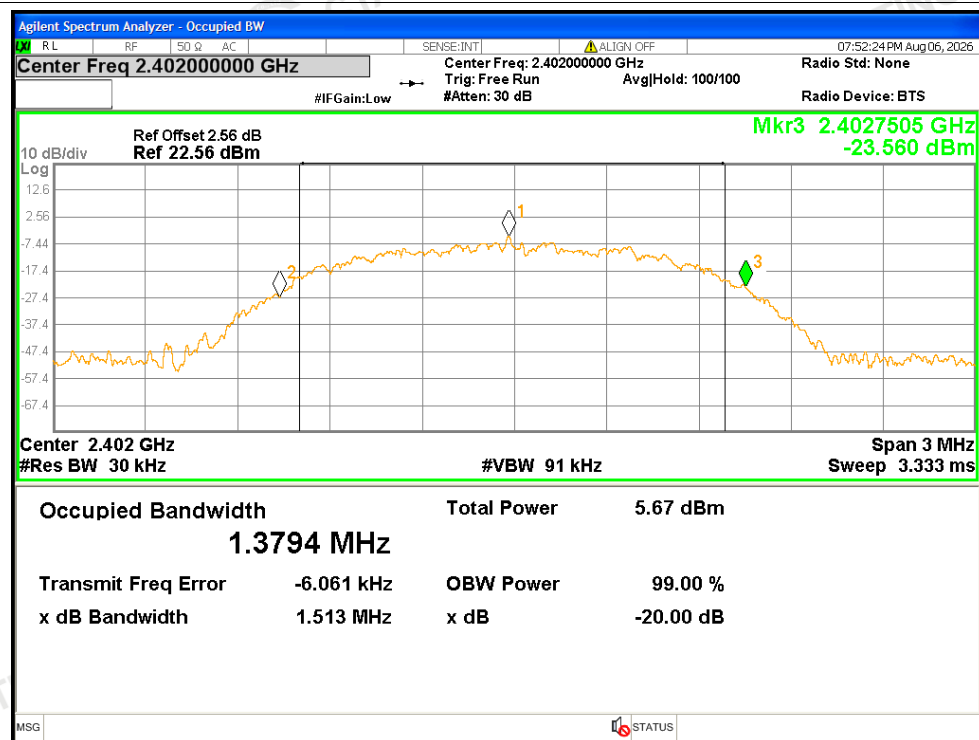




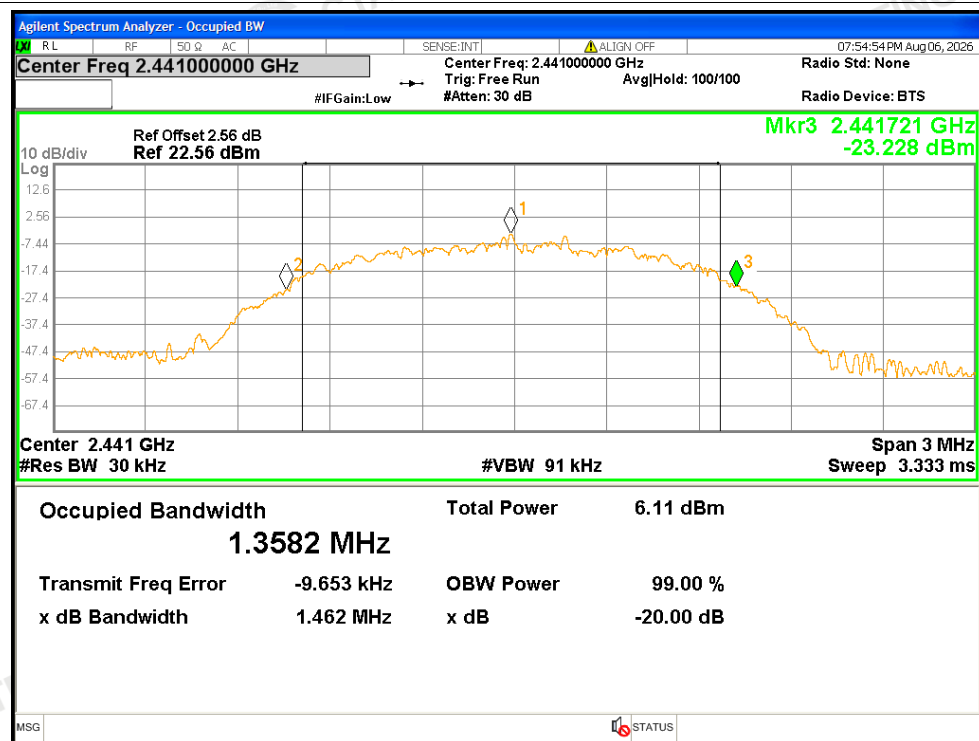
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-20dB Bandwidth NVNT 3-DH5 2402MHz



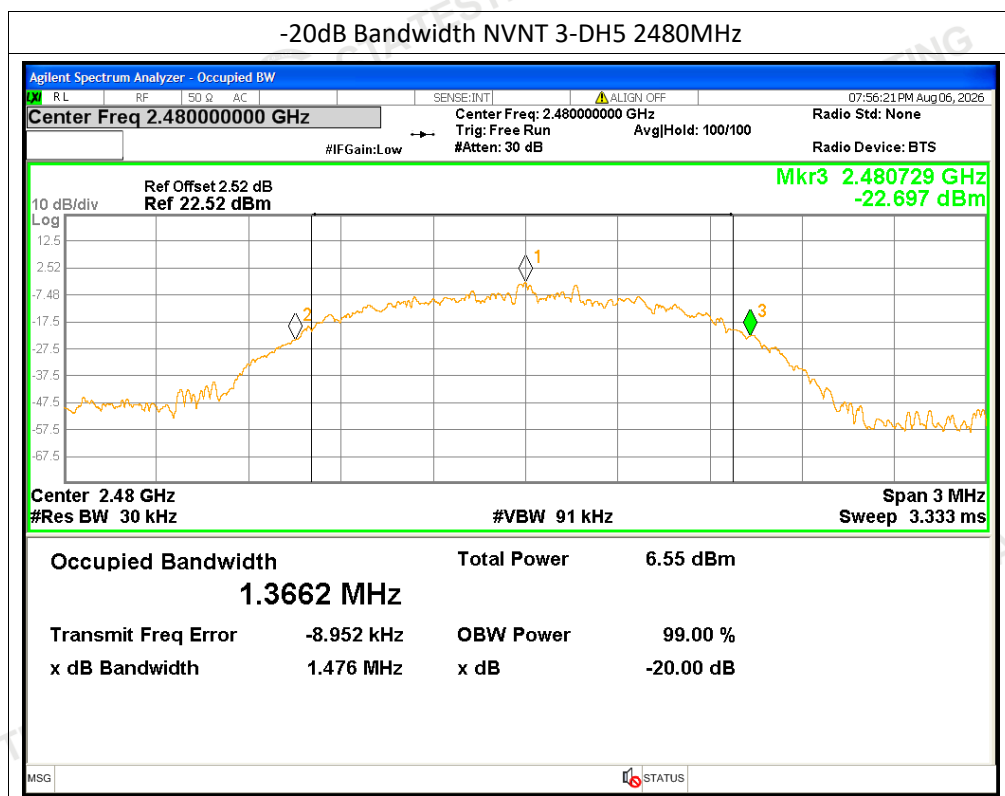
-20dB Bandwidth NVNT 3-DH5 2441MHz





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Carrier Frequencies Separation

Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2401.837	2402.842	1.005	≥ 0.954	Pass
1-DH5	2441.149	2442.157	1.008	≥ 0.953	Pass
1-DH5	2478.828	2480.172	1.344	≥ 0.953	Pass
2-DH5	2402.107	2403.133	1.026	≥ 0.958	Pass
2-DH5	2441.122	2442.163	1.041	≥ 0.995	Pass
2-DH5	2478.843	2480.121	1.278	≥ 0.961	Pass
3-DH5	2401.834	2402.863	1.029	≥ 1.009	Pass
3-DH5	2440.759	2441.824	1.065	≥ 0.975	Pass
3-DH5	2479.095	2480.157	1.062	≥ 0.984	Pass

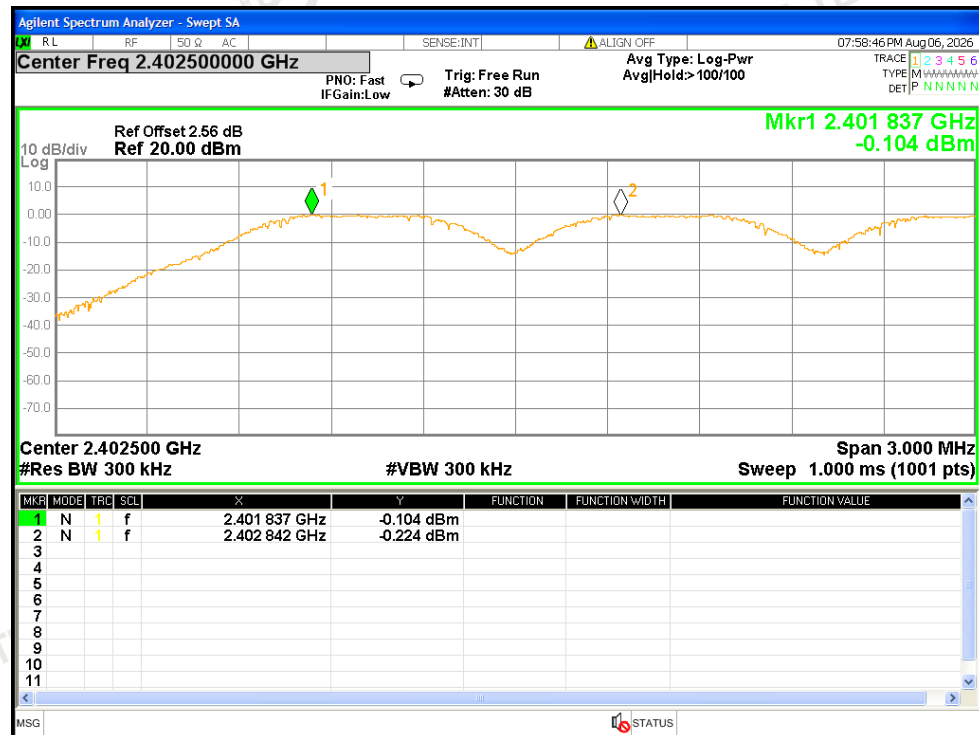


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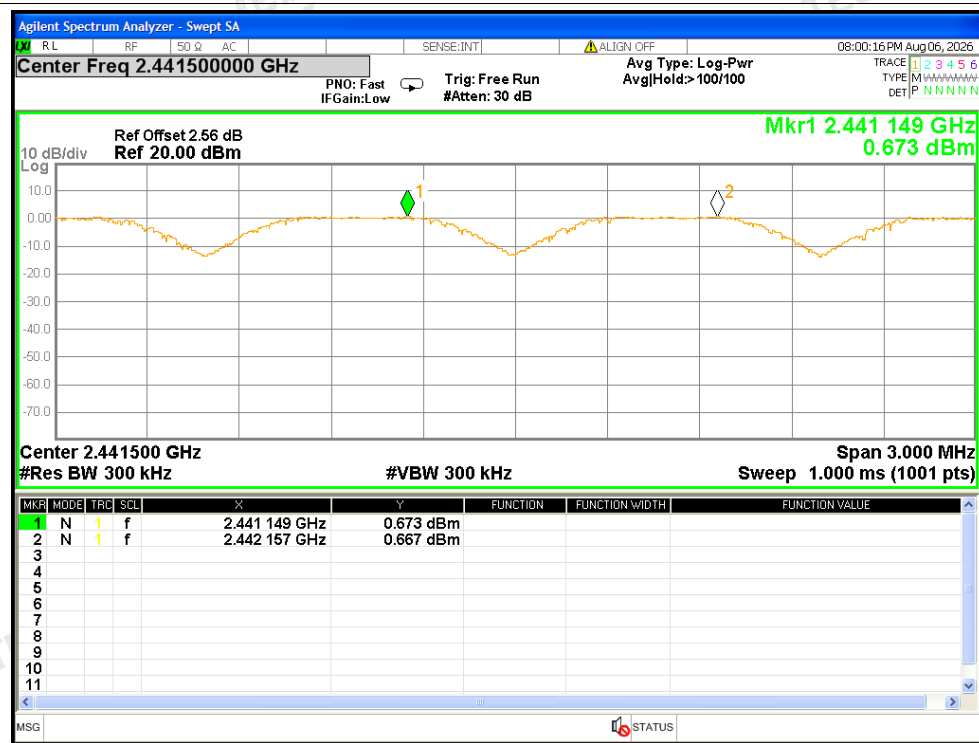
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Test Graphs

CFS NVNT 1-DH5 2402MHz



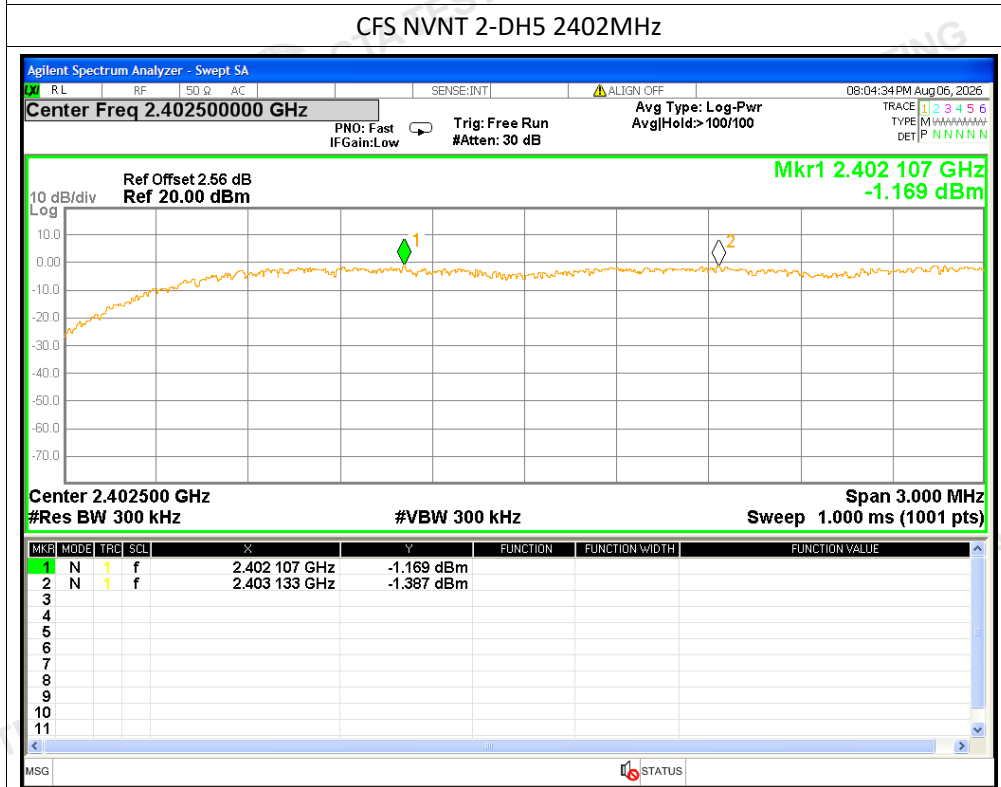
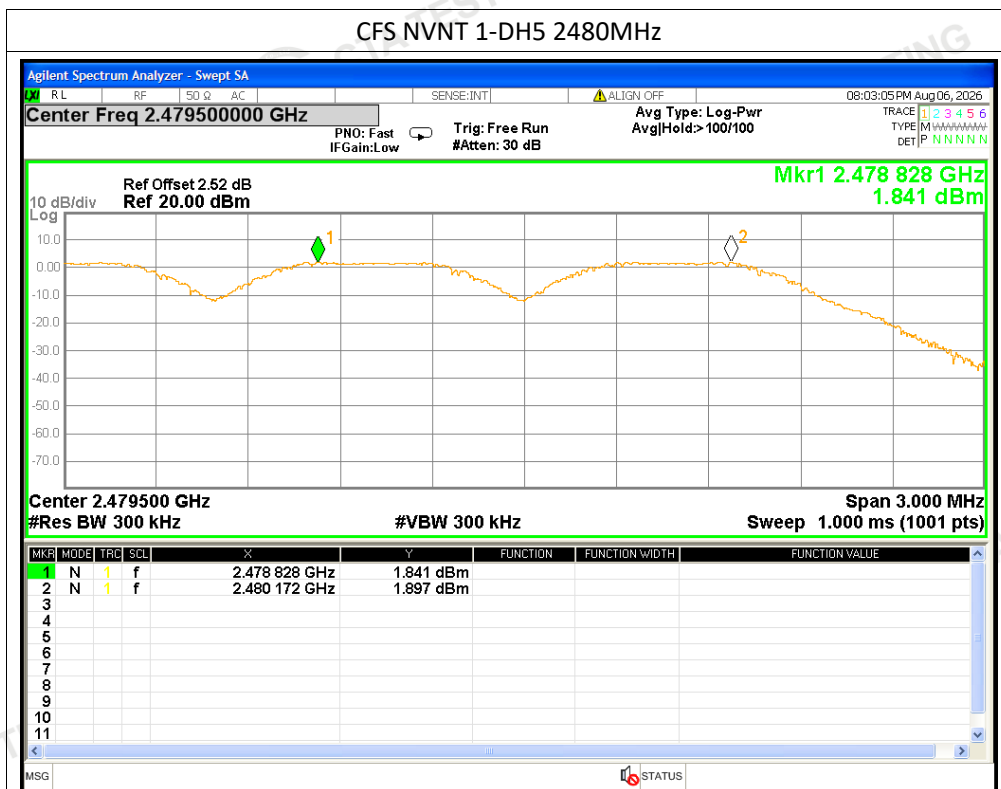
CFS NVNT 1-DH5 2441MHz





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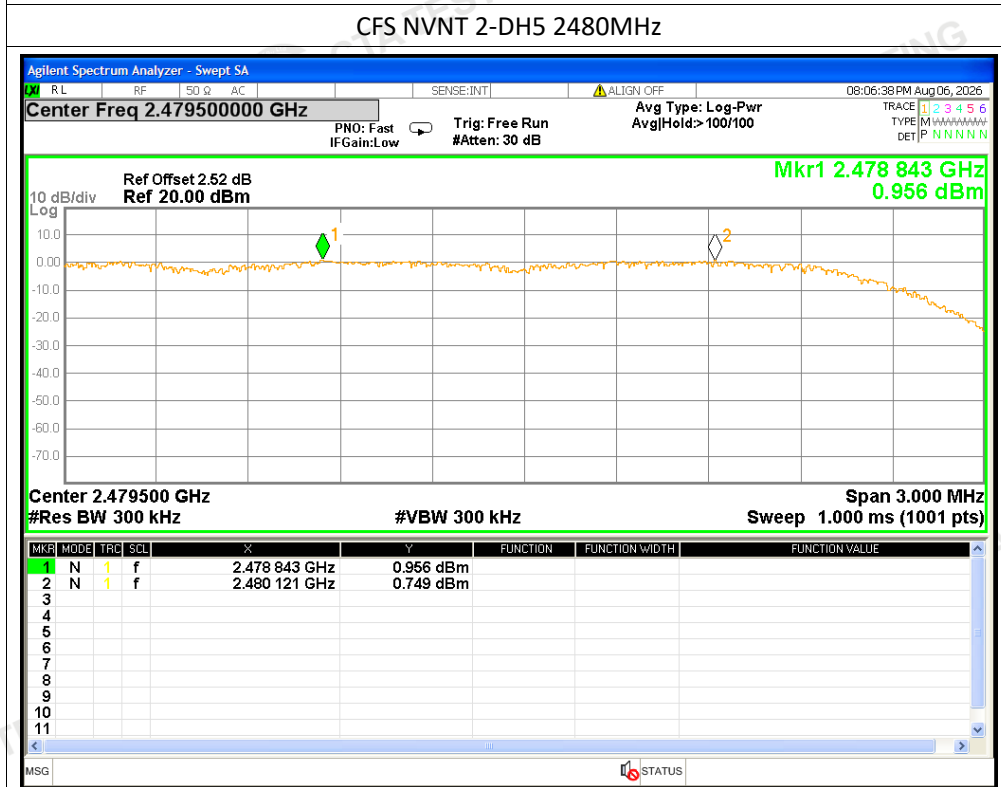
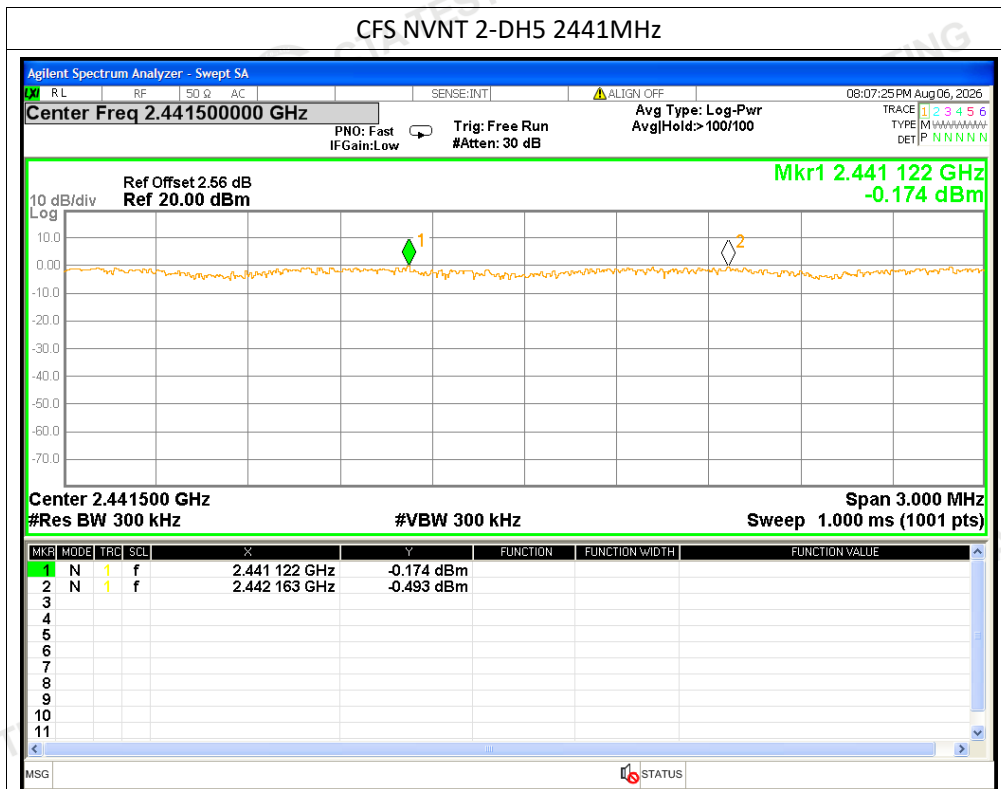
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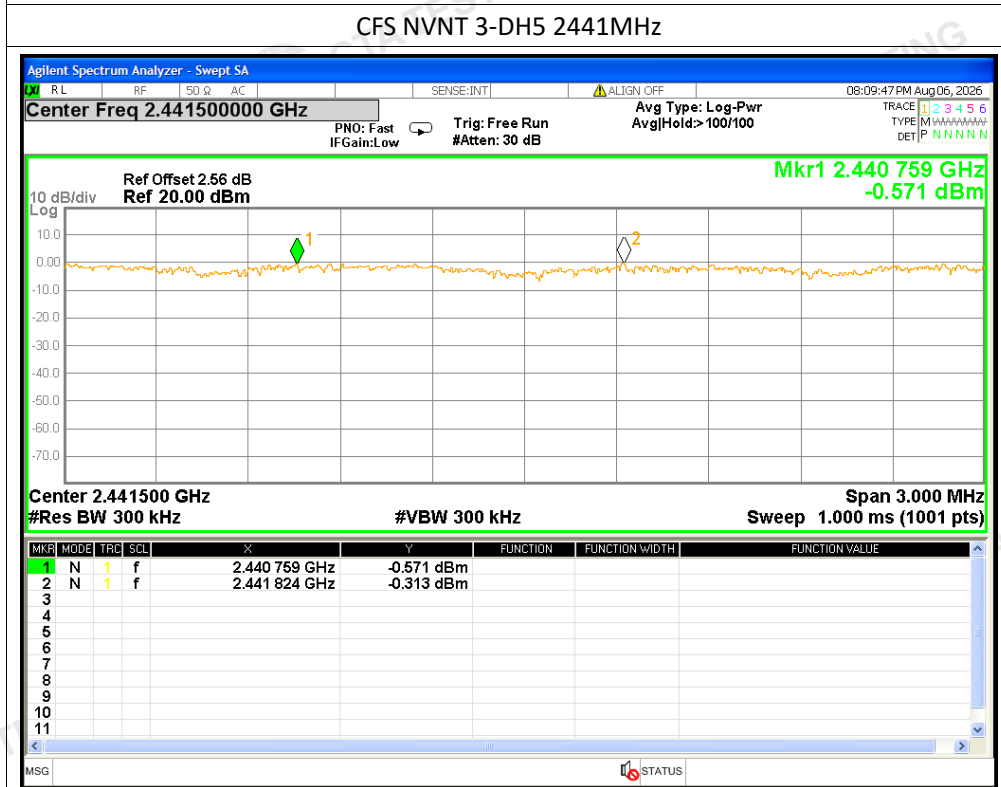
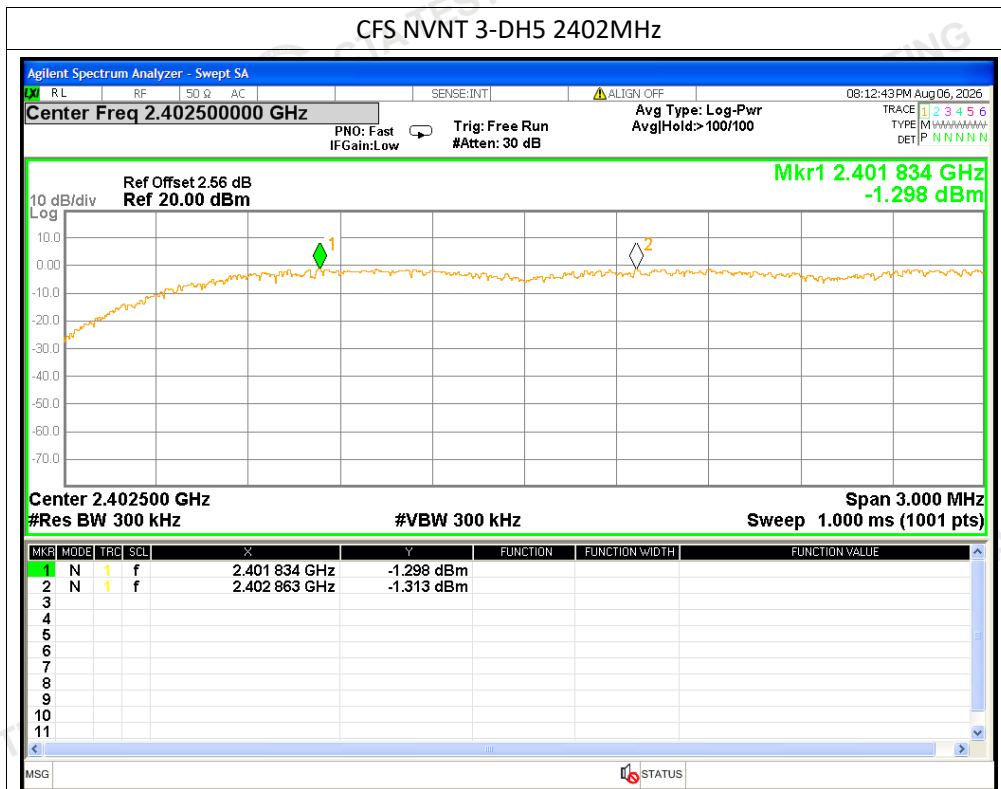
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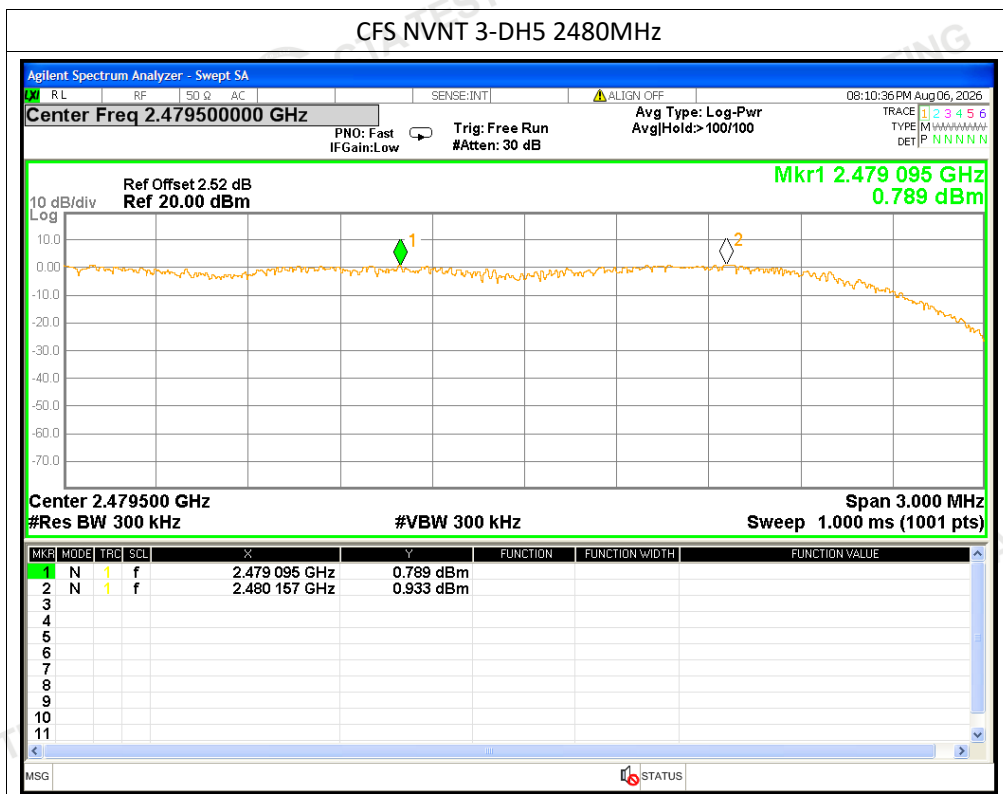
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Number of Hopping Channel

Mode	Hopping Number	Limit	Verdict
1-DH5	79	≥ 15	Pass
2-DH5	79	≥ 15	Pass
3-DH5	79	≥ 15	Pass

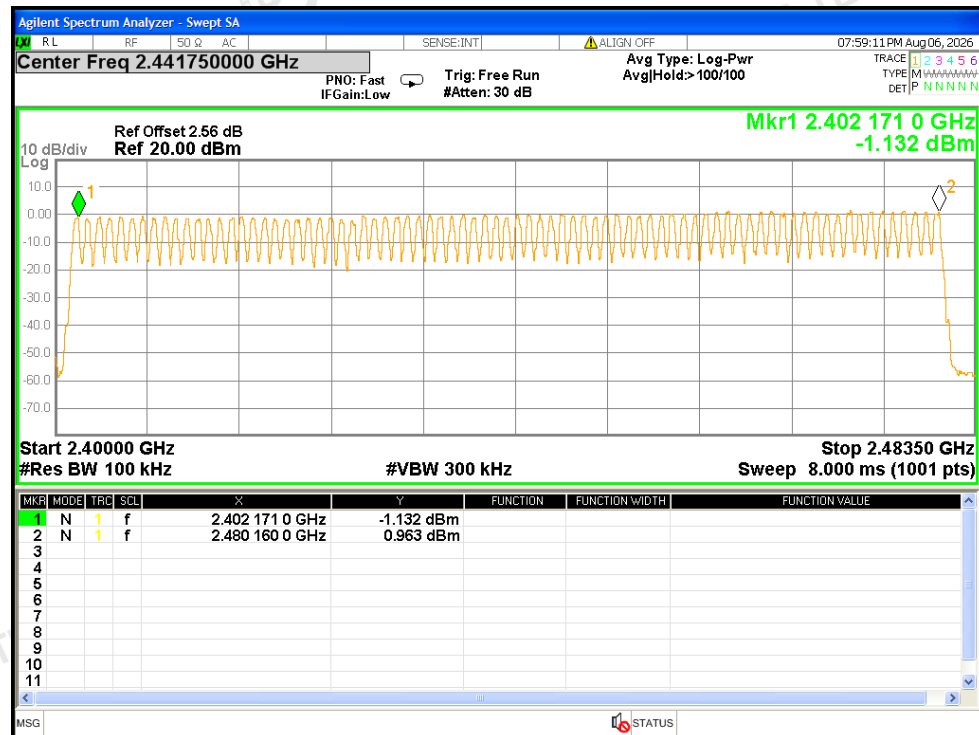


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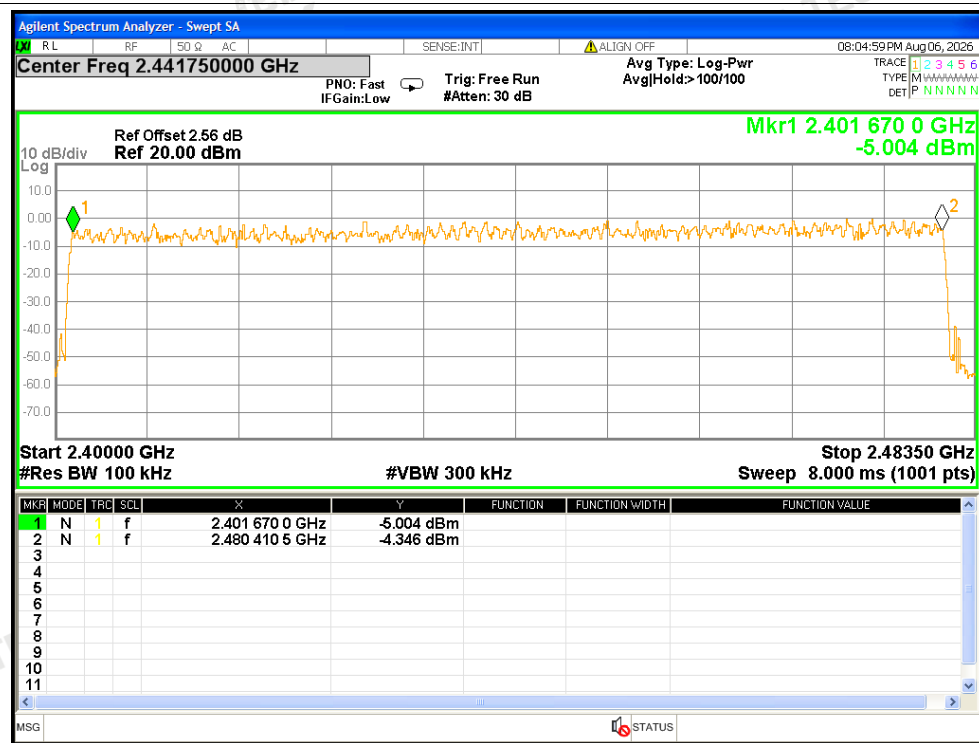
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Test Graphs

Hopping No. NVNT 1-DH5 Hopping



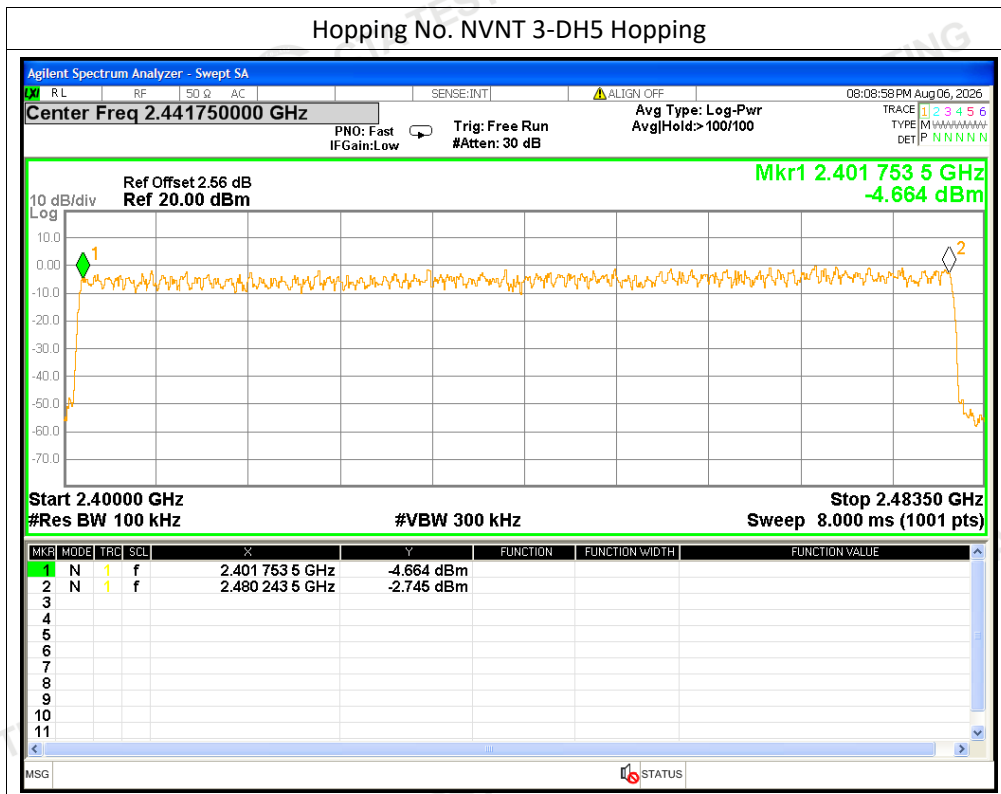
Hopping No. NVNT 2-DH5 Hopping





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Band Edge

Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	No-Hopping	-55.77	≤ -20	Pass
1-DH5	2480	No-Hopping	-47.62	≤ -20	Pass
2-DH5	2402	No-Hopping	-55.26	≤ -20	Pass
2-DH5	2480	No-Hopping	-44.07	≤ -20	Pass
3-DH5	2402	No-Hopping	-55.83	≤ -20	Pass
3-DH5	2480	No-Hopping	-42.9	≤ -20	Pass

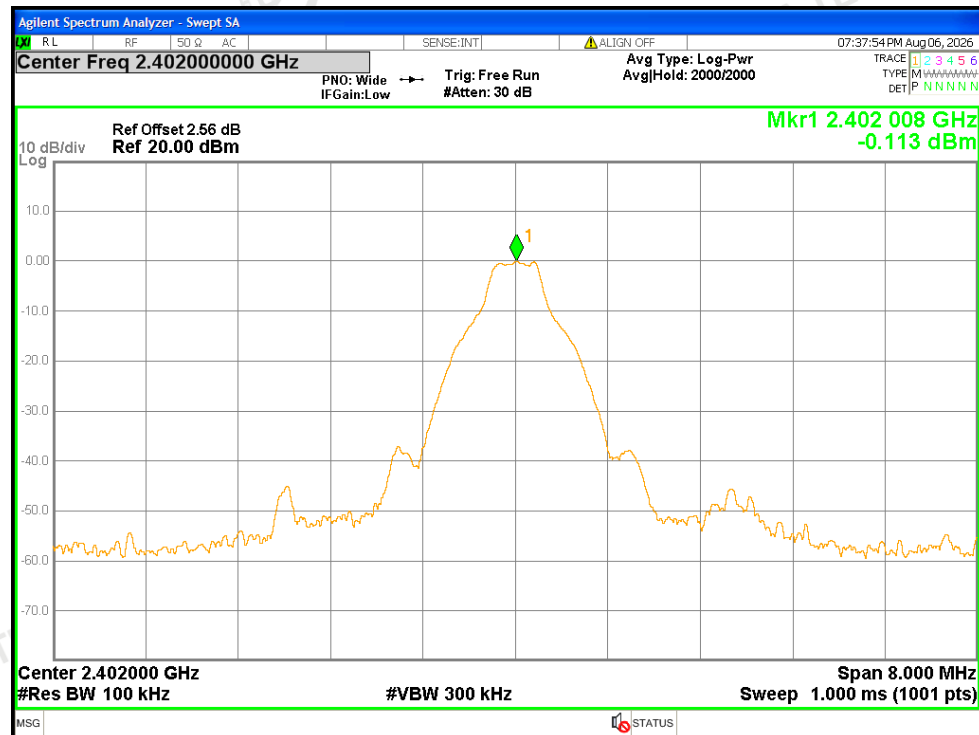


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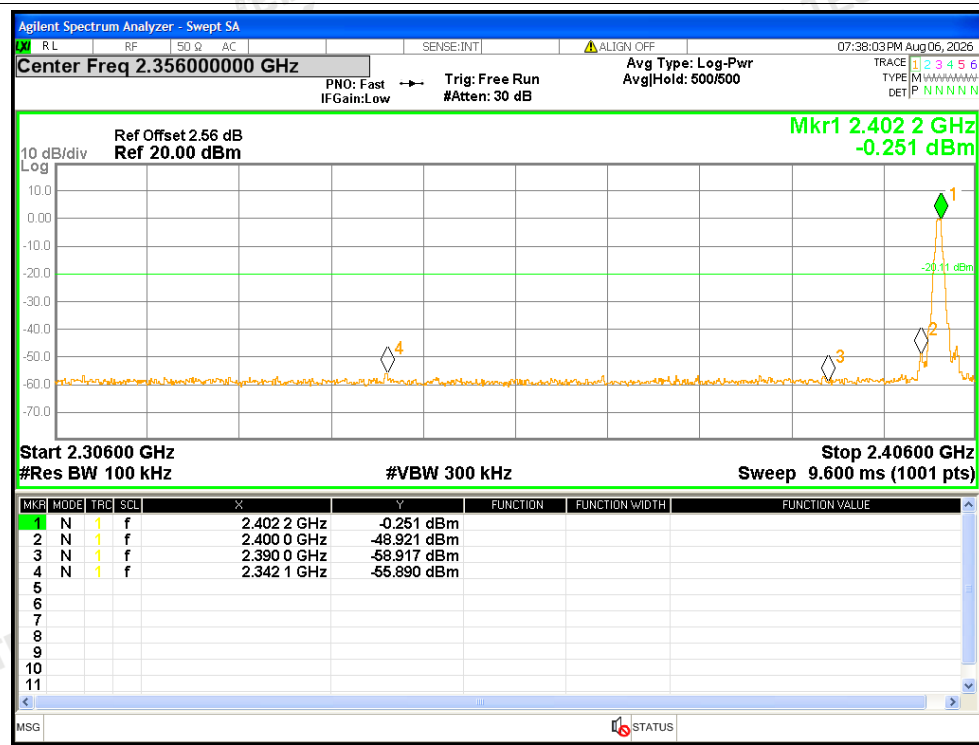
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Test Graphs

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



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

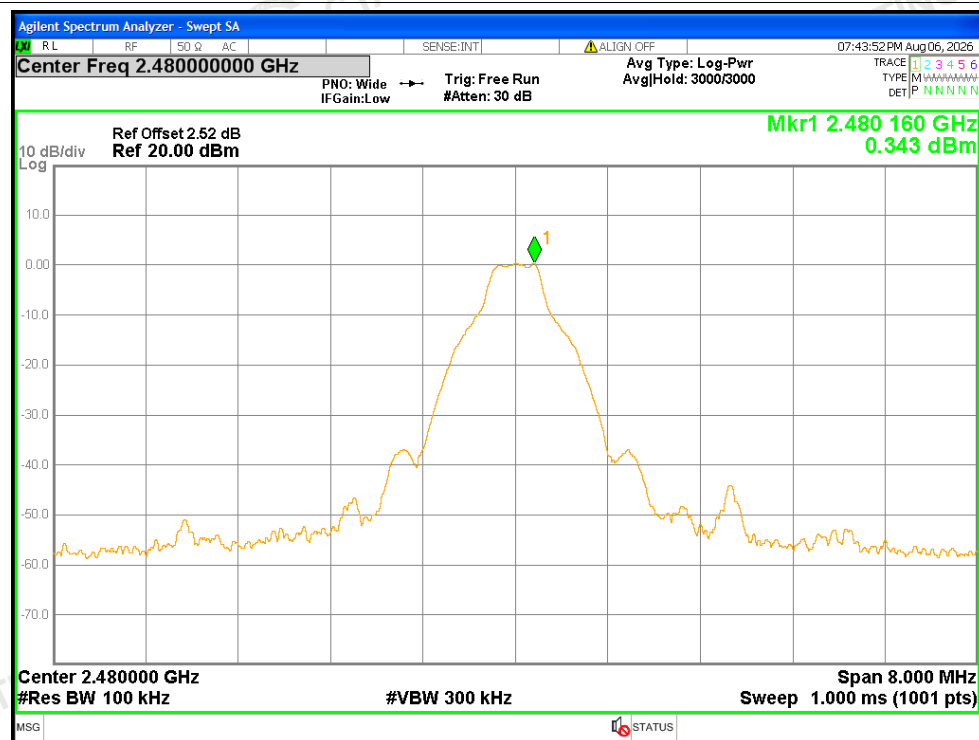




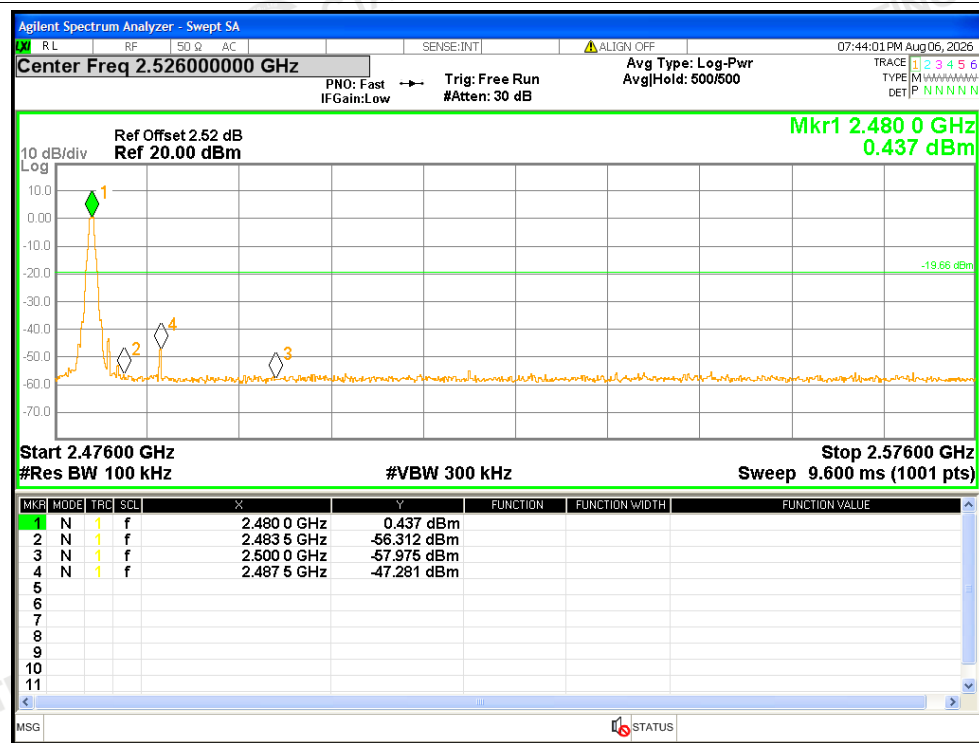
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Band Edge NVNT 1-DH5 2480MHz No-Hopping Ref



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

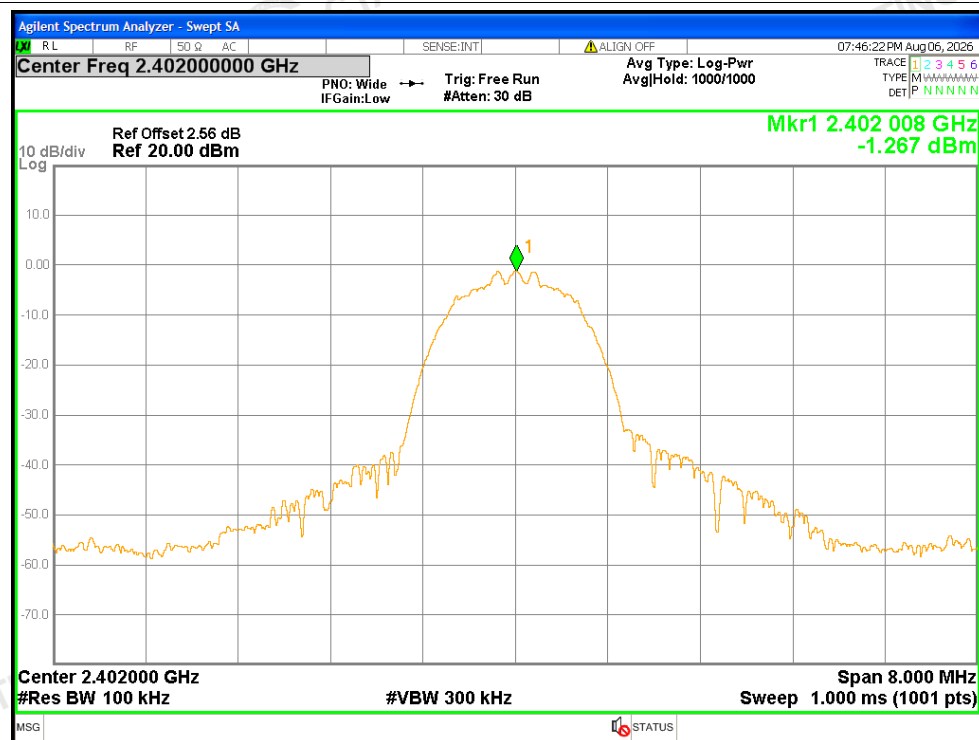




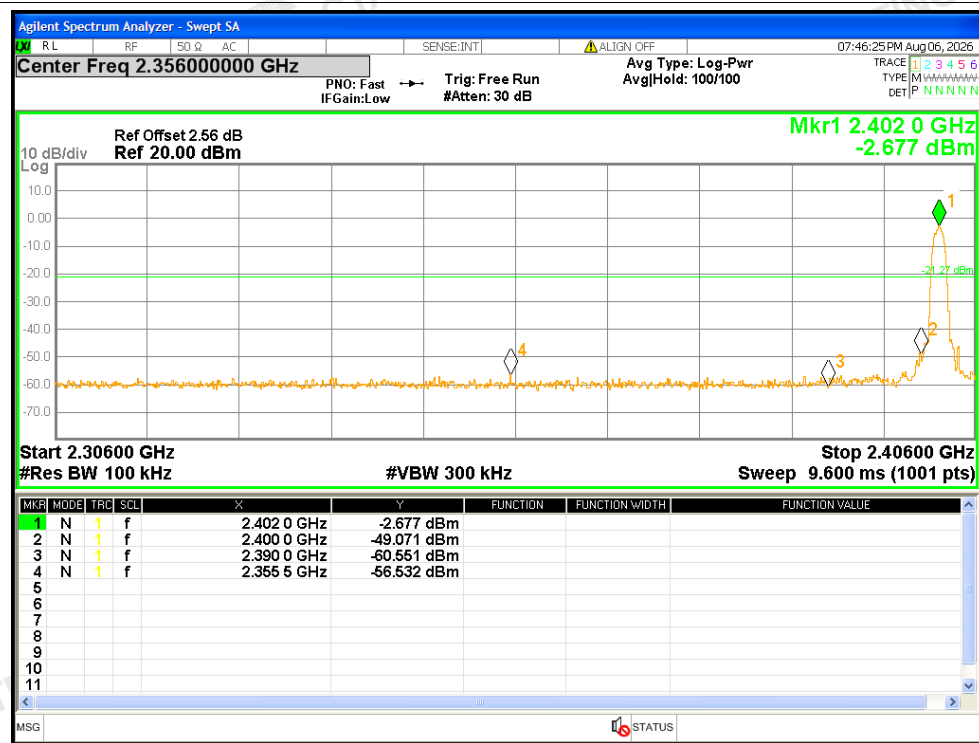
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Band Edge NVNT 2-DH5 2402MHz No-Hopping Ref



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

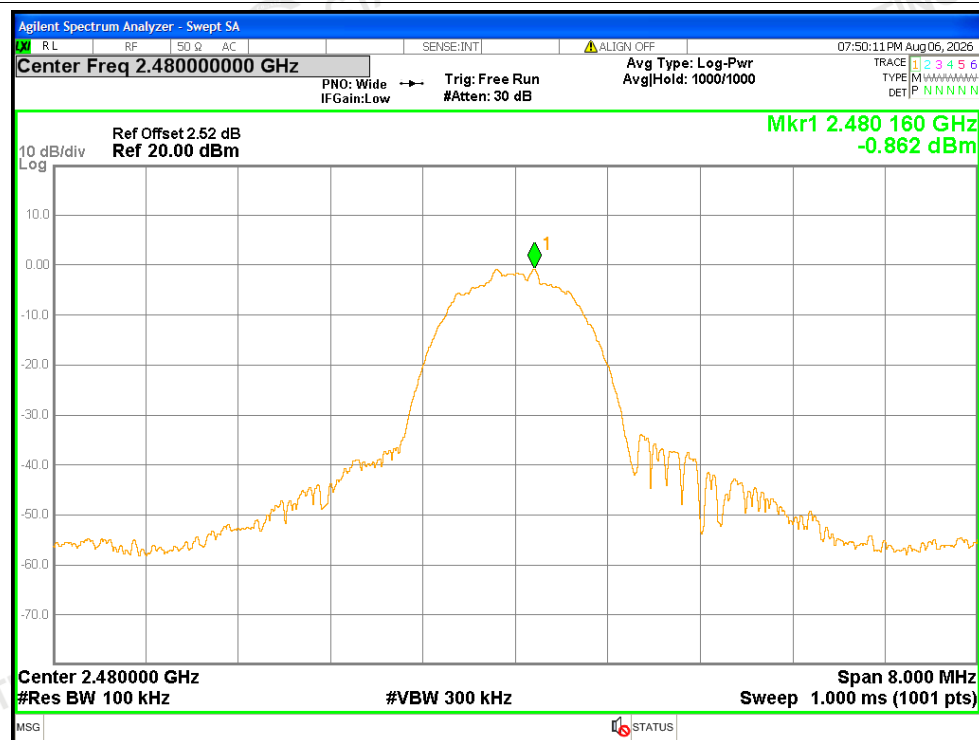




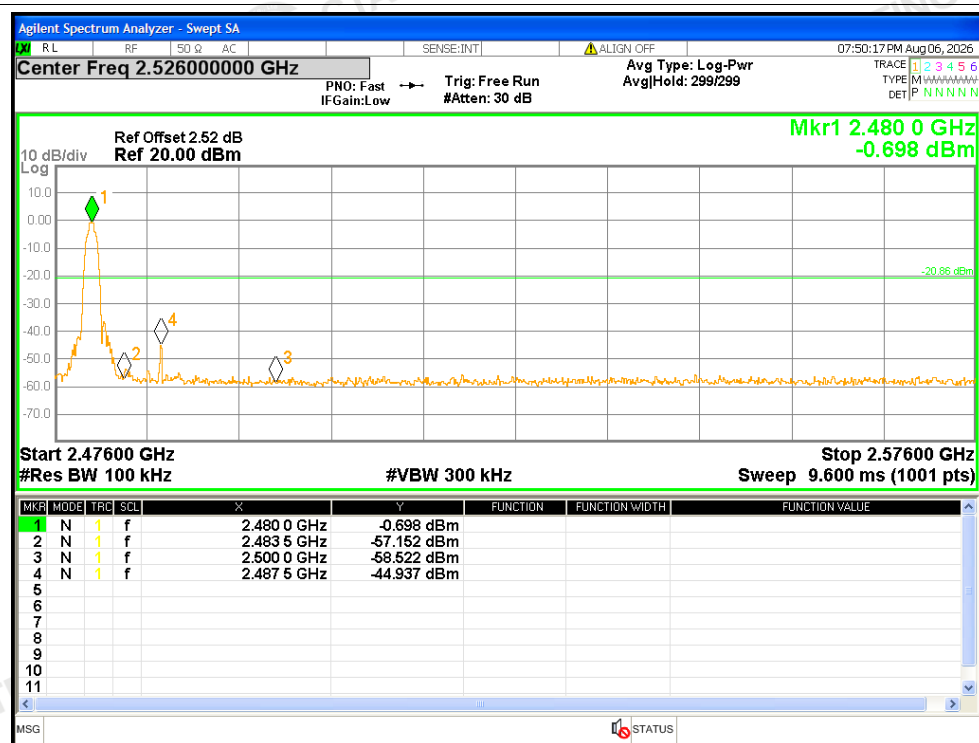
Shenzhen CTA Testing Technology Co., Ltd.

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



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

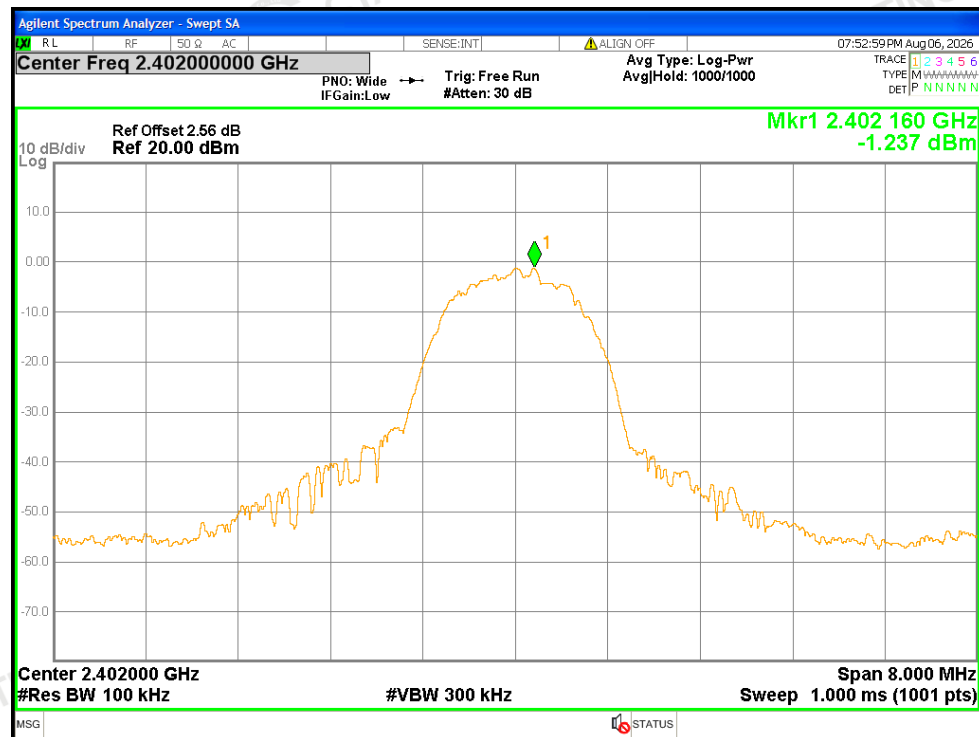




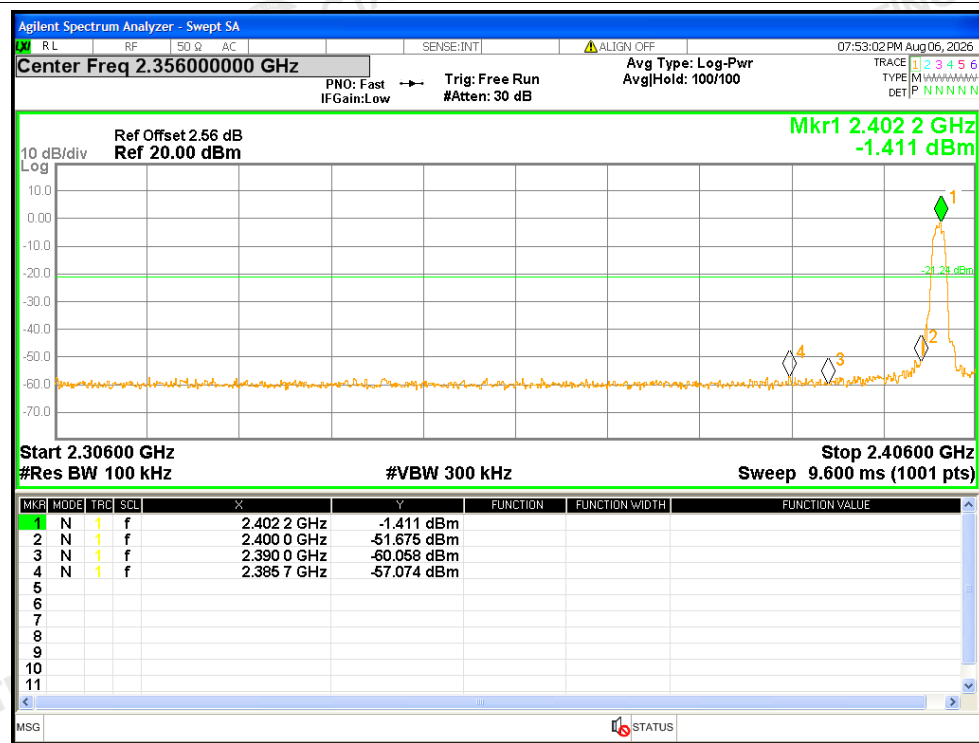
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Band Edge NVNT 3-DH5 2402MHz No-Hopping Ref



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

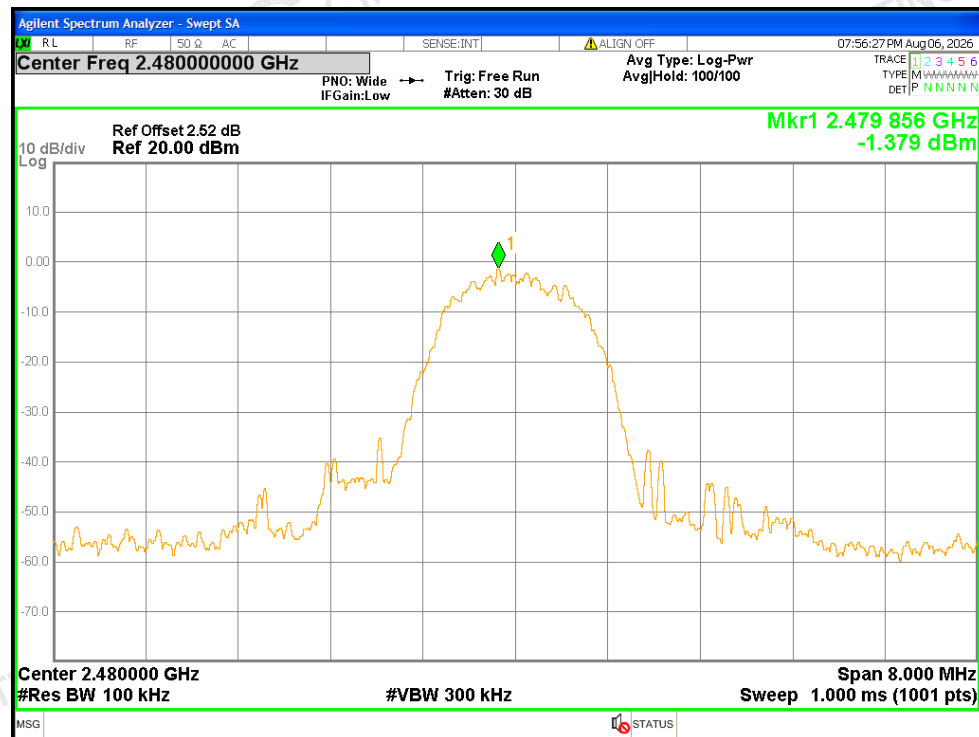




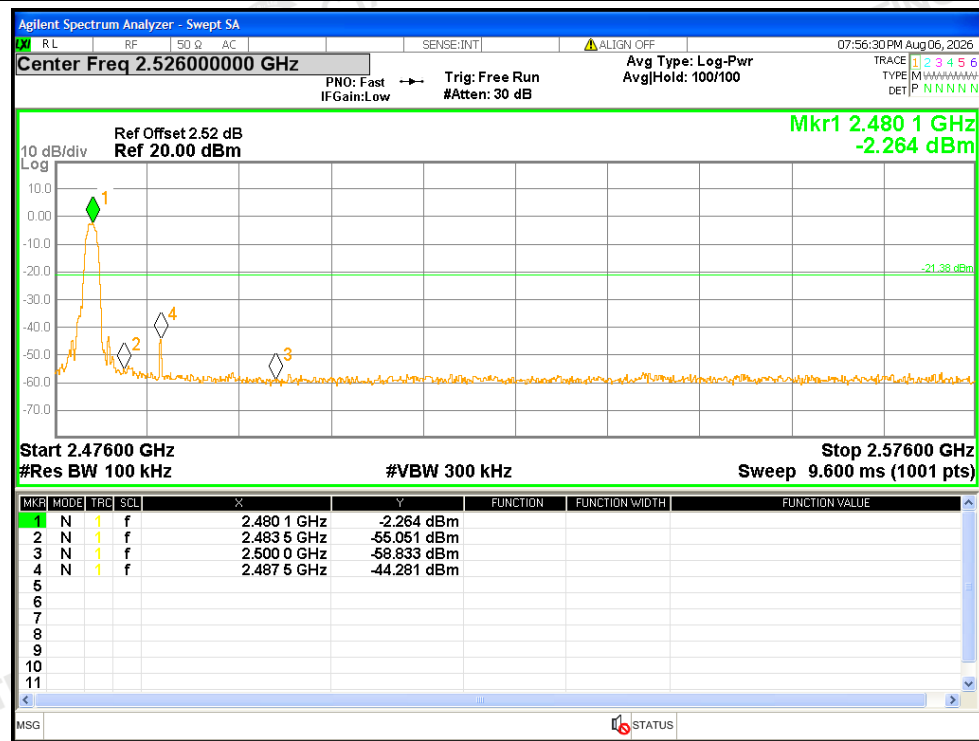
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Band Edge NVNT 3-DH5 2480MHz No-Hopping Ref



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





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Band Edge(Hopping)

Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	Hopping	-54.53	≤ -20	Pass
1-DH5	2480	Hopping	-49.91	≤ -20	Pass
2-DH5	2402	Hopping	-53.13	≤ -20	Pass
2-DH5	2480	Hopping	-43.15	≤ -20	Pass
3-DH5	2402	Hopping	-53.88	≤ -20	Pass
3-DH5	2480	Hopping	-52.01	≤ -20	Pass

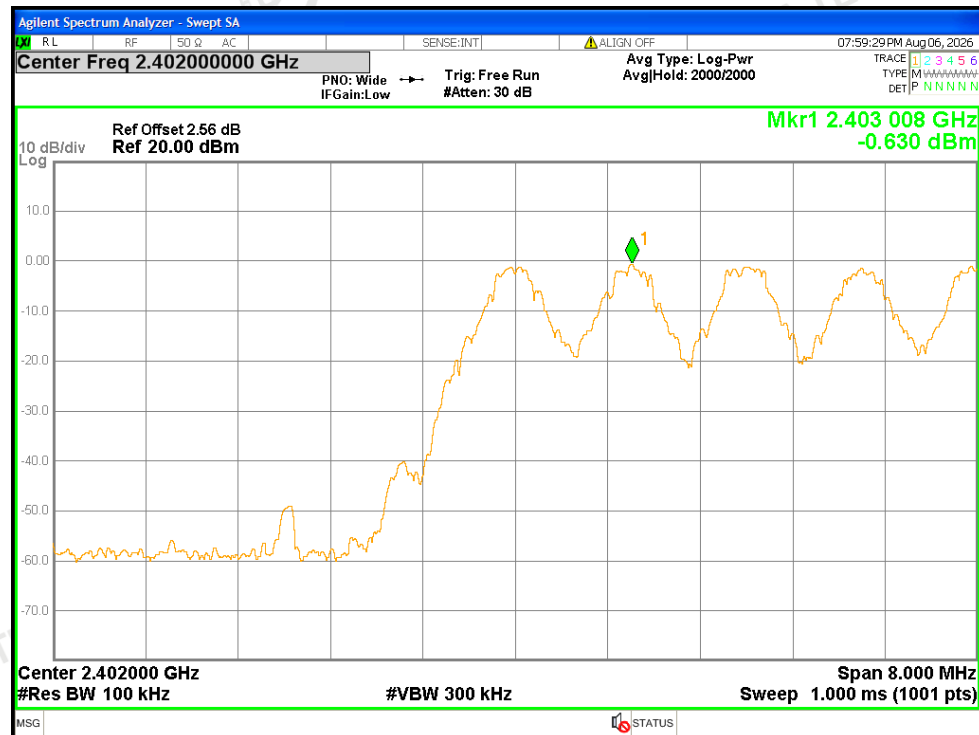


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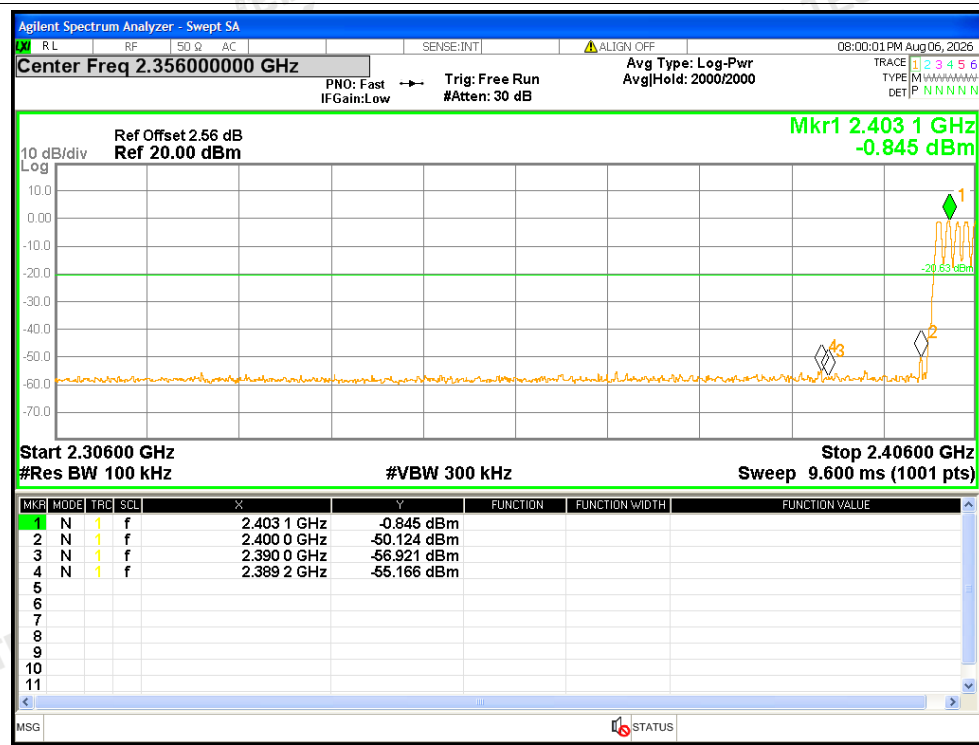
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Test Graphs

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



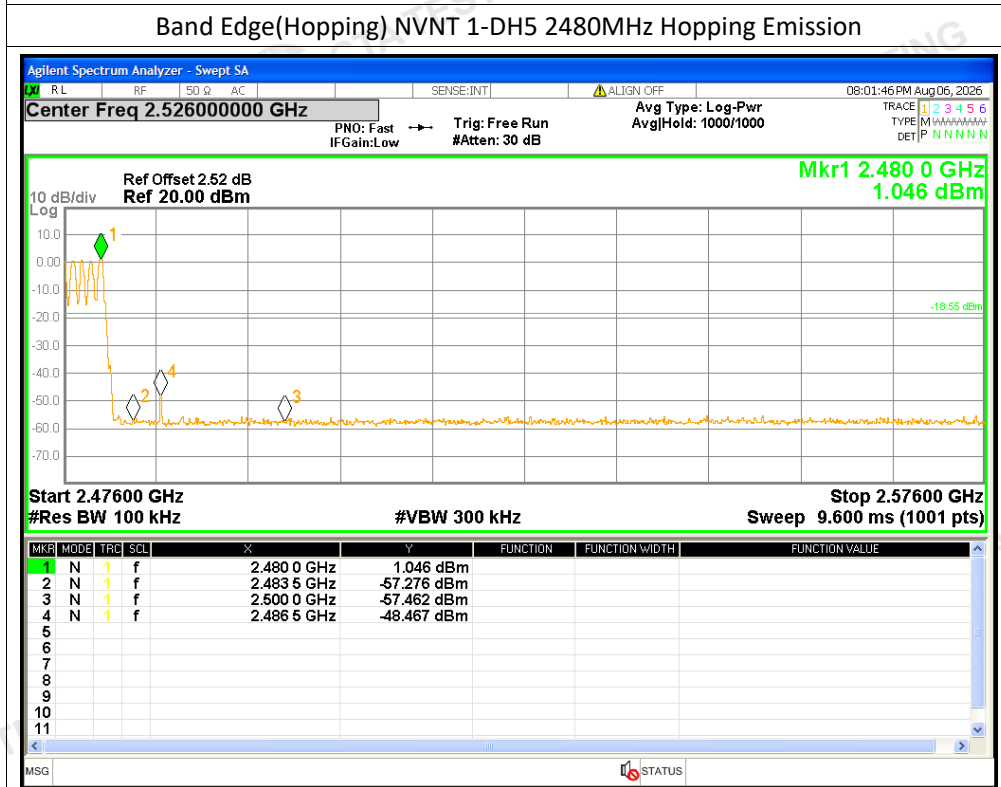
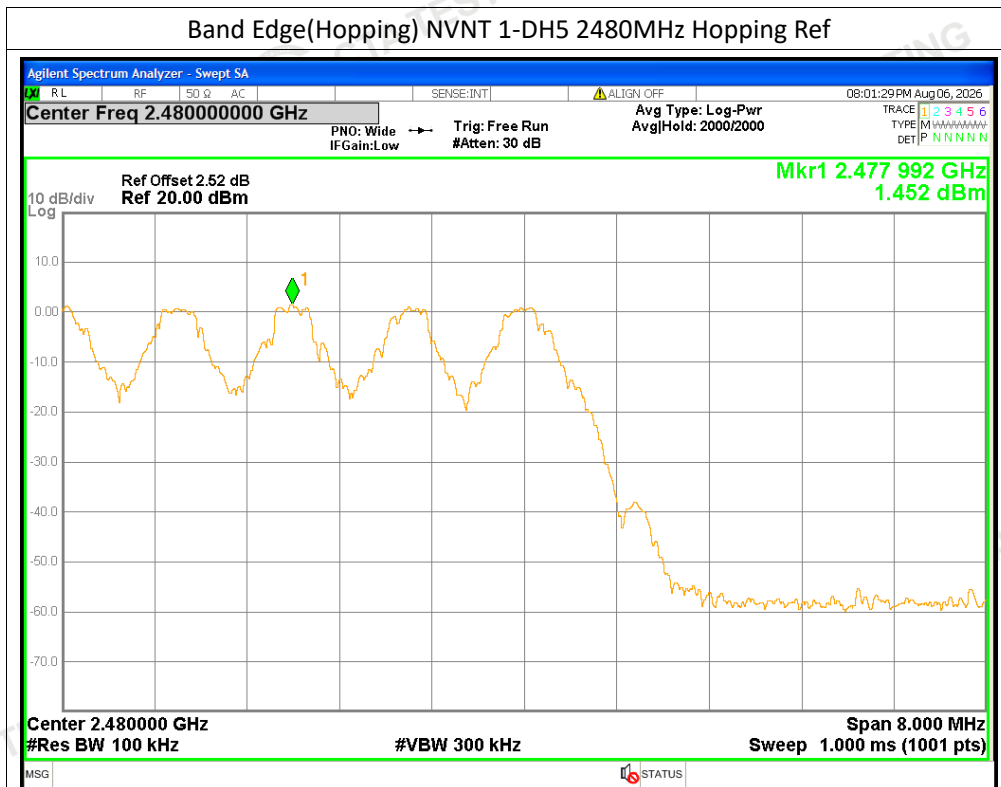
Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Emission





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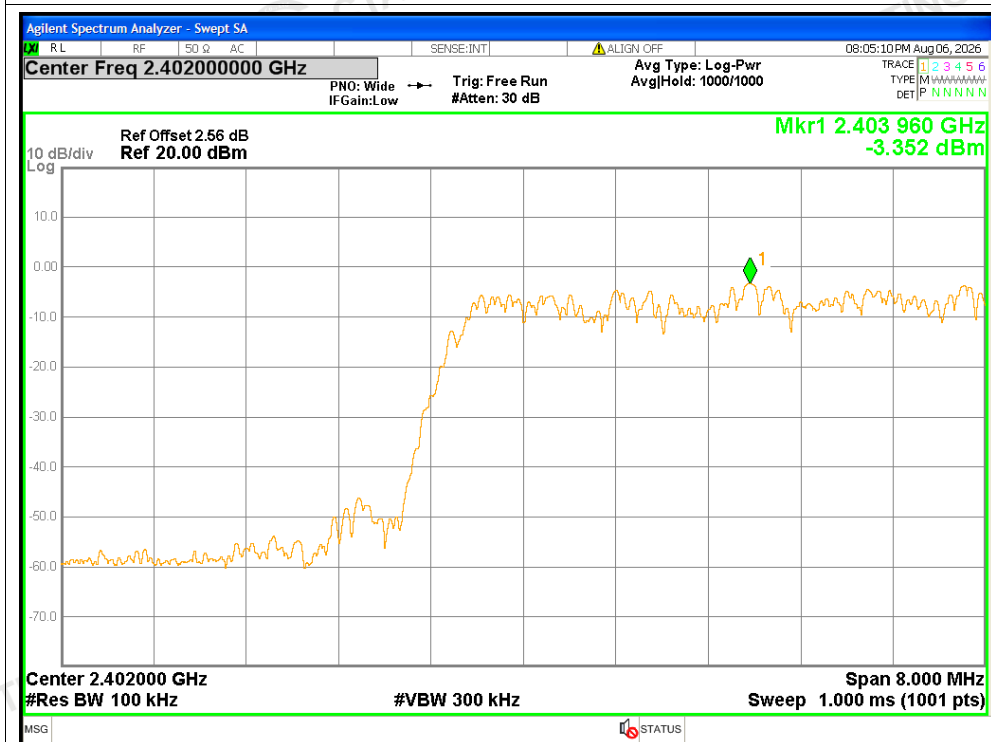




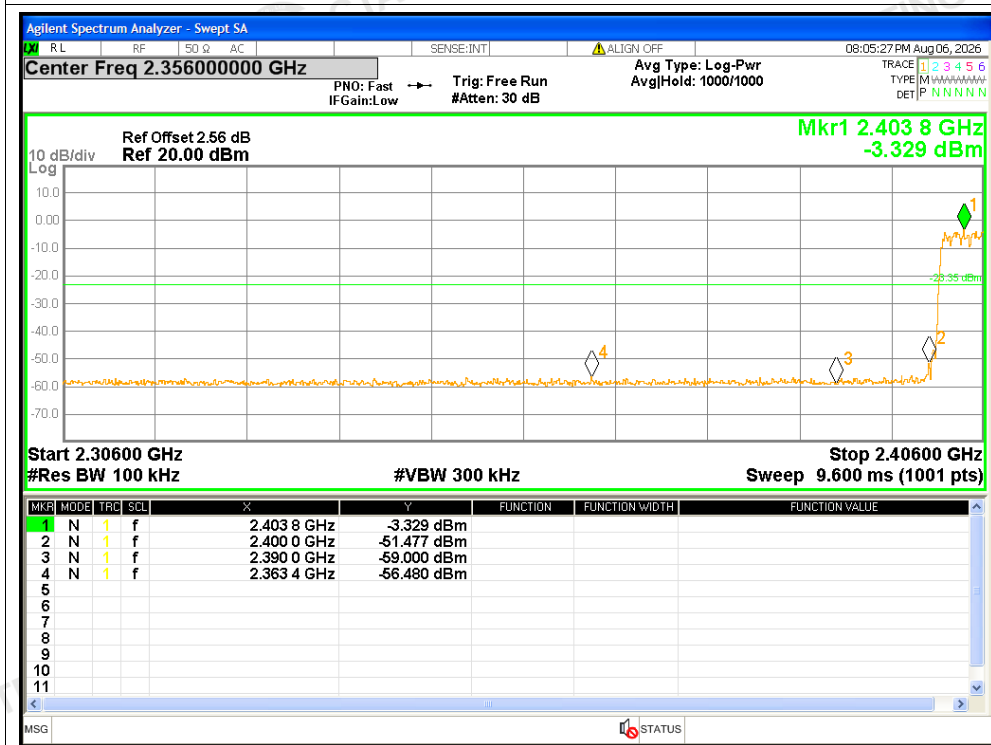
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Ref



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

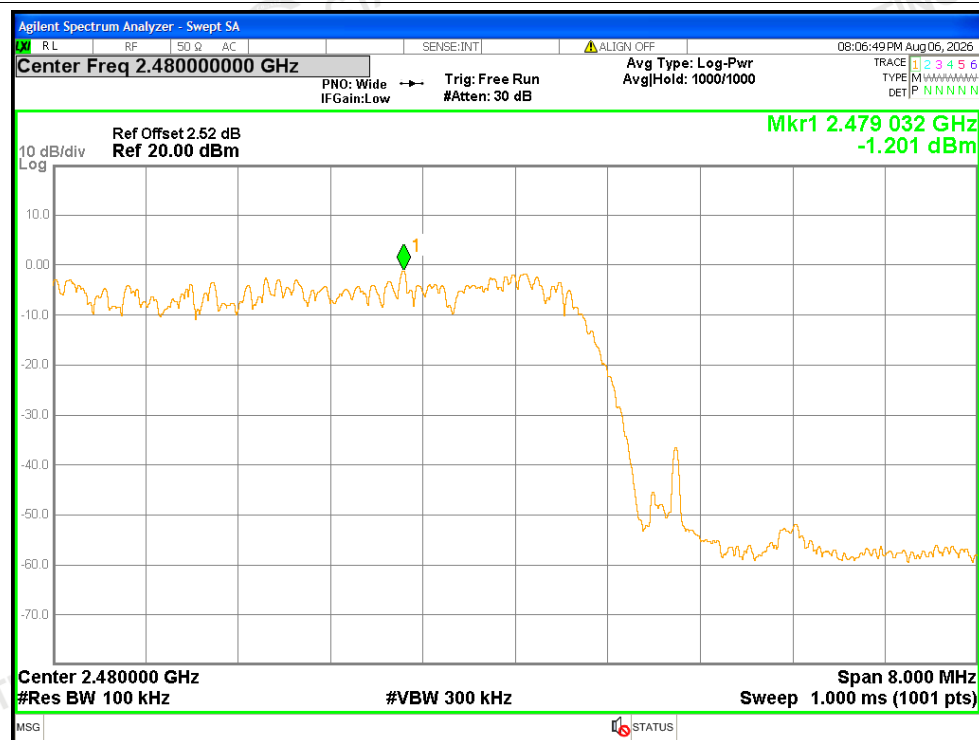




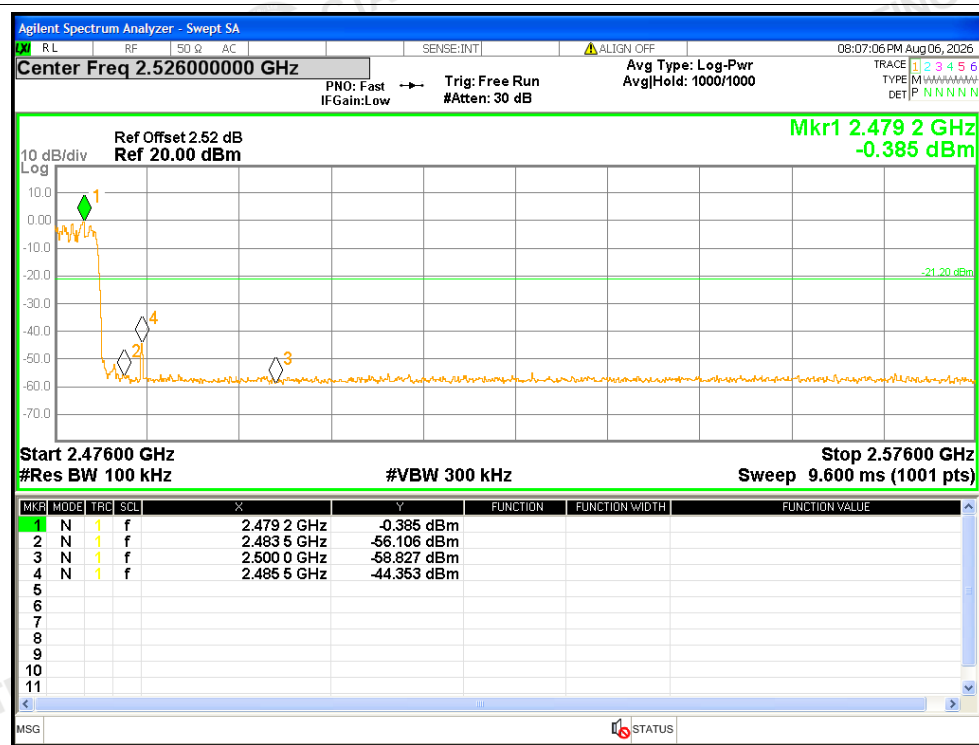
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Ref



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

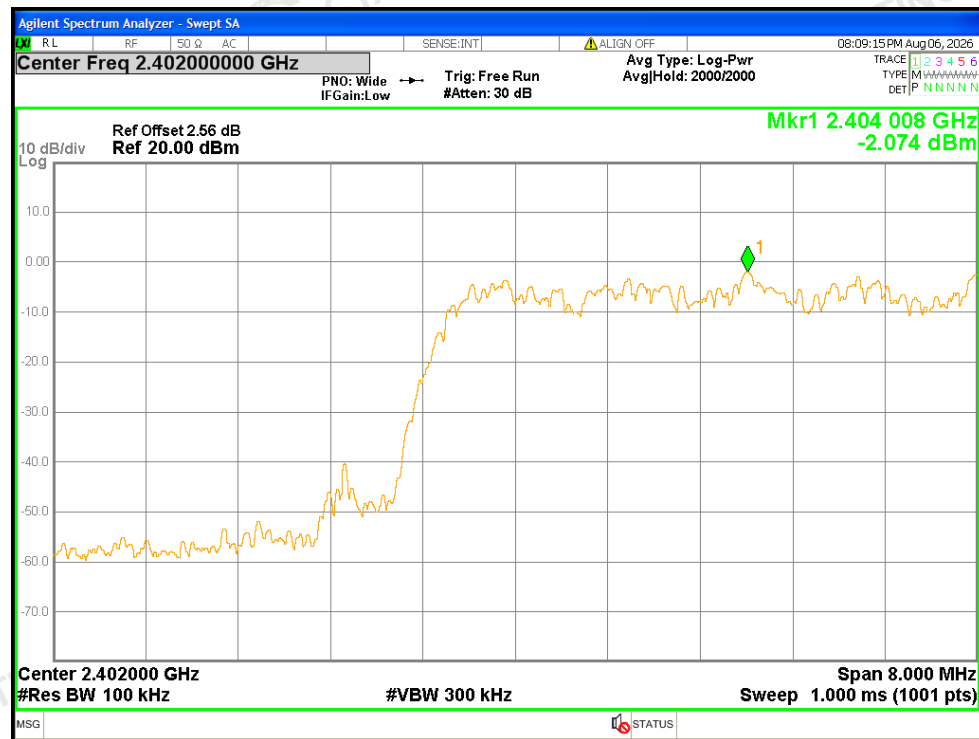




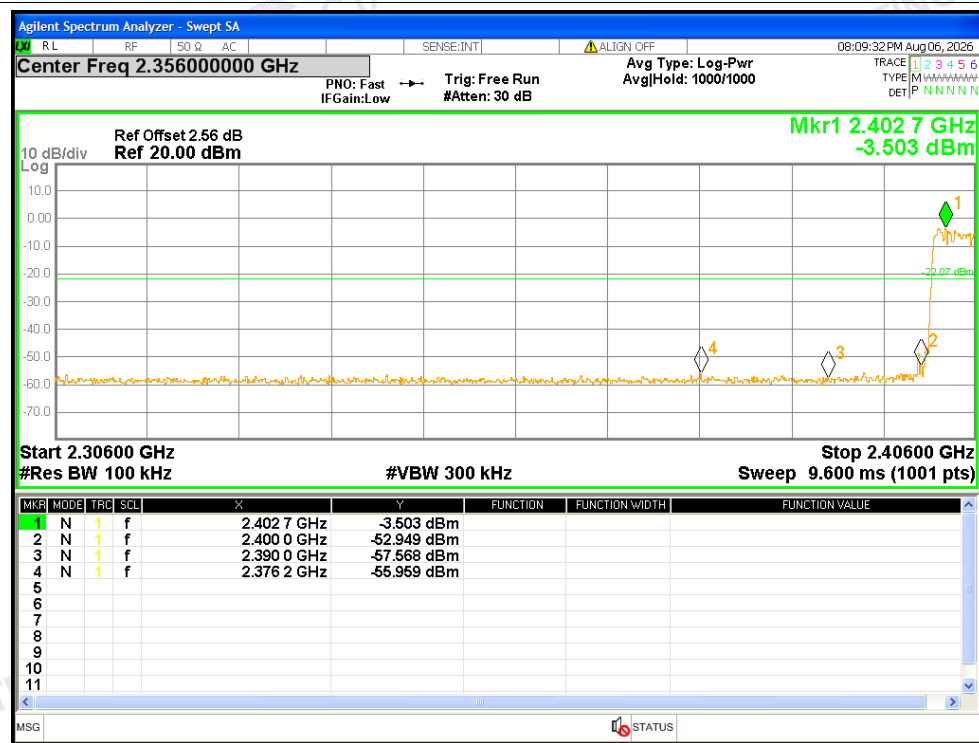
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Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Ref



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

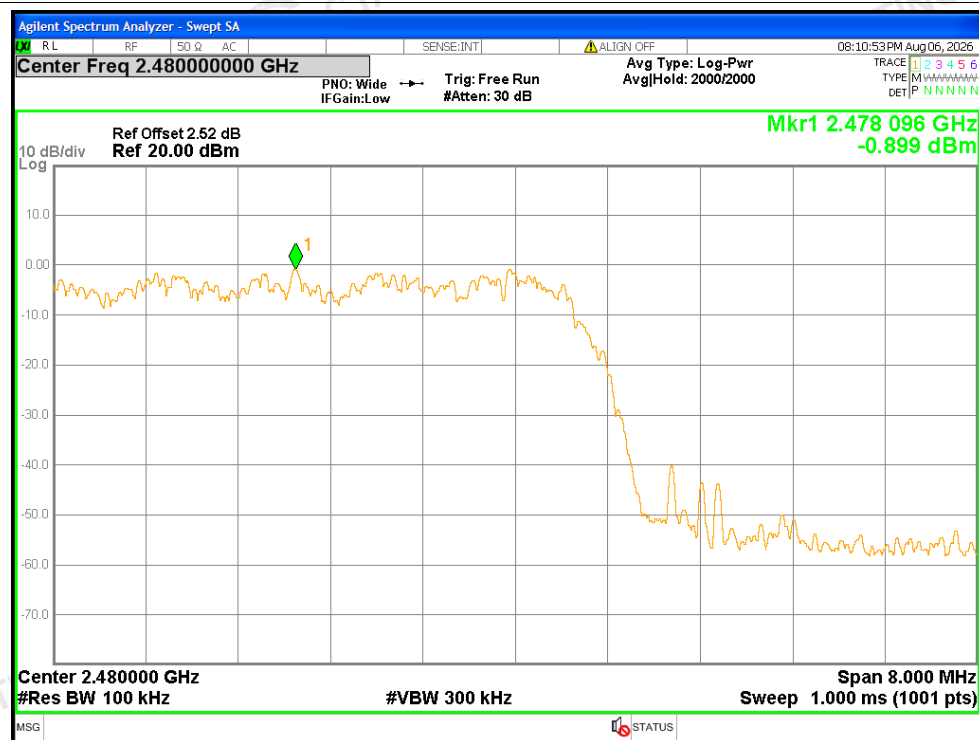




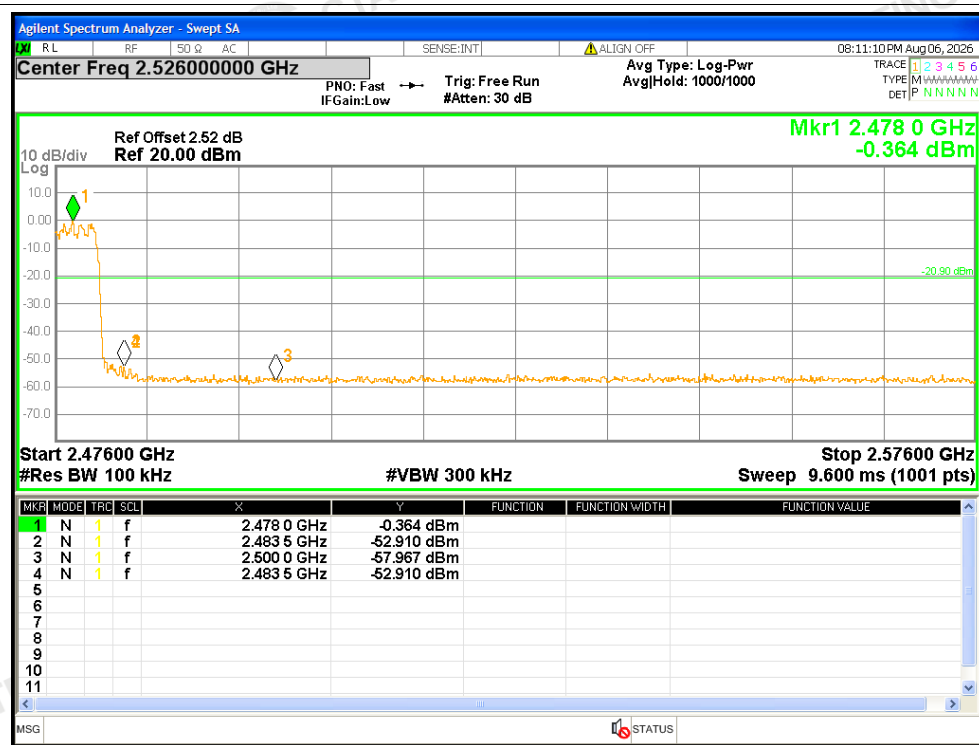
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Band Edge(Hopping) NVNT 3-DH5 2480MHz Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Hopping Emission





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Conducted RF Spurious Emission

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	-40.7	≤ -20	Pass
1-DH5	2441	-39.9	≤ -20	Pass
1-DH5	2480	-40.54	≤ -20	Pass
2-DH5	2402	-38.39	≤ -20	Pass
2-DH5	2441	-38.98	≤ -20	Pass
2-DH5	2480	-38.67	≤ -20	Pass
3-DH5	2402	-39.15	≤ -20	Pass
3-DH5	2441	-39.04	≤ -20	Pass
3-DH5	2480	-39.08	≤ -20	Pass

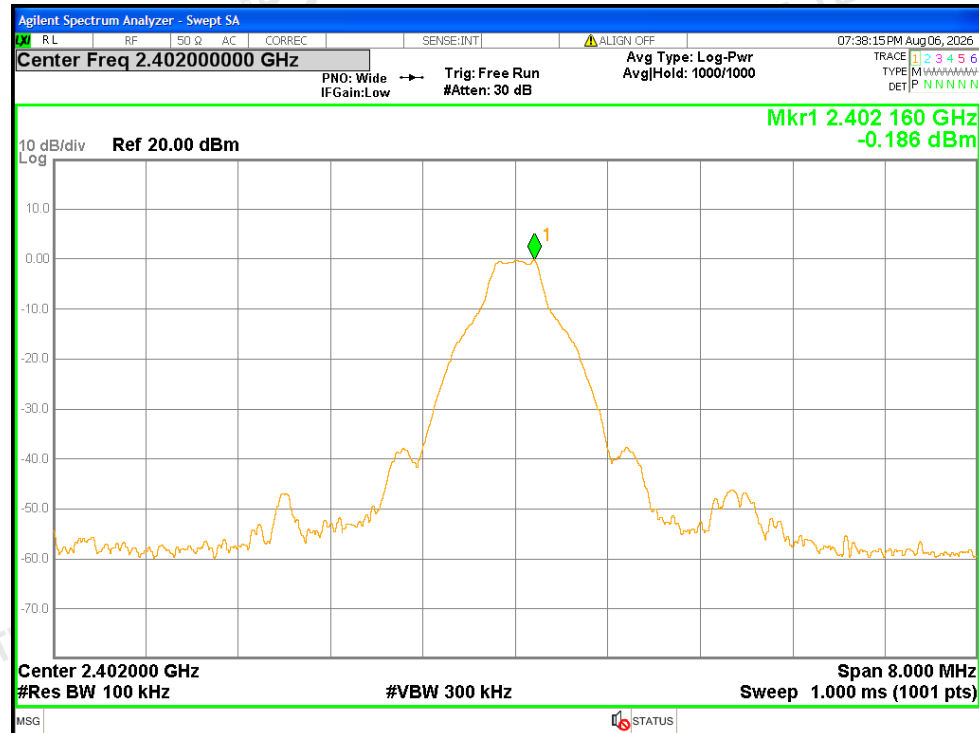


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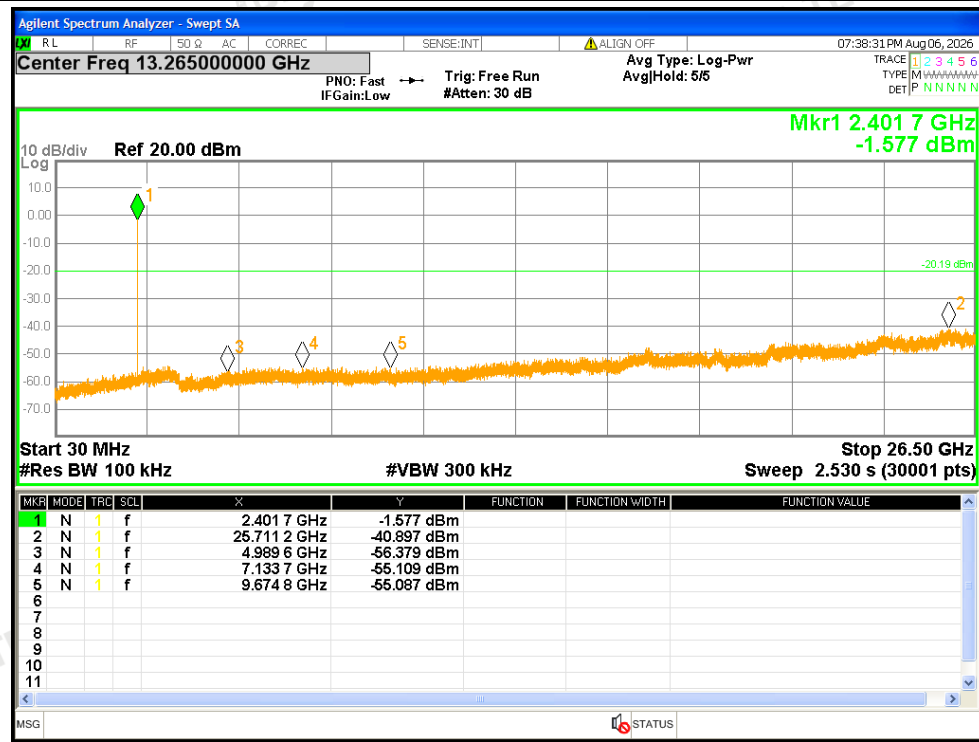
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Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ref



Tx. Spurious NVNT 1-DH5 2402MHz Emission

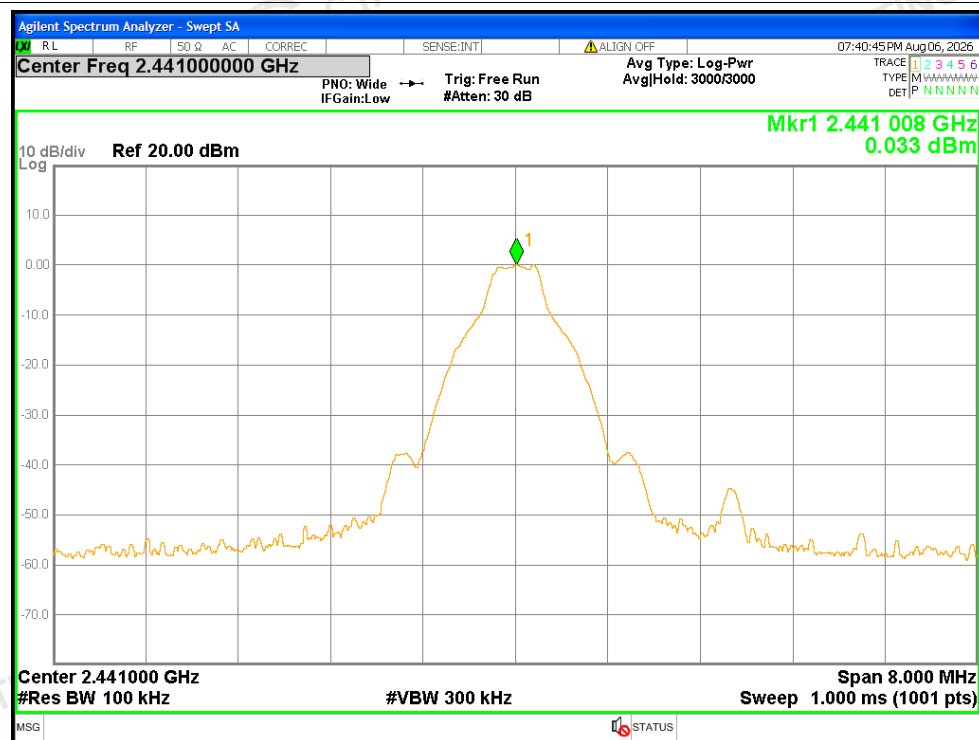




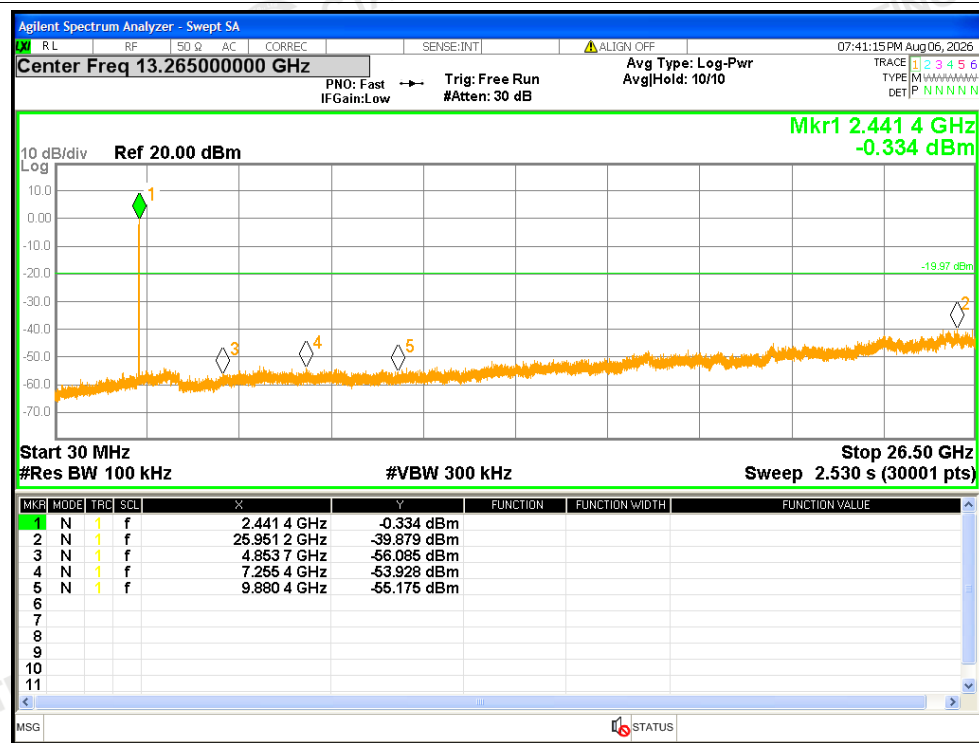
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Tx. Spurious NVNT 1-DH5 2441MHz Ref



Tx. Spurious NVNT 1-DH5 2441MHz Emission

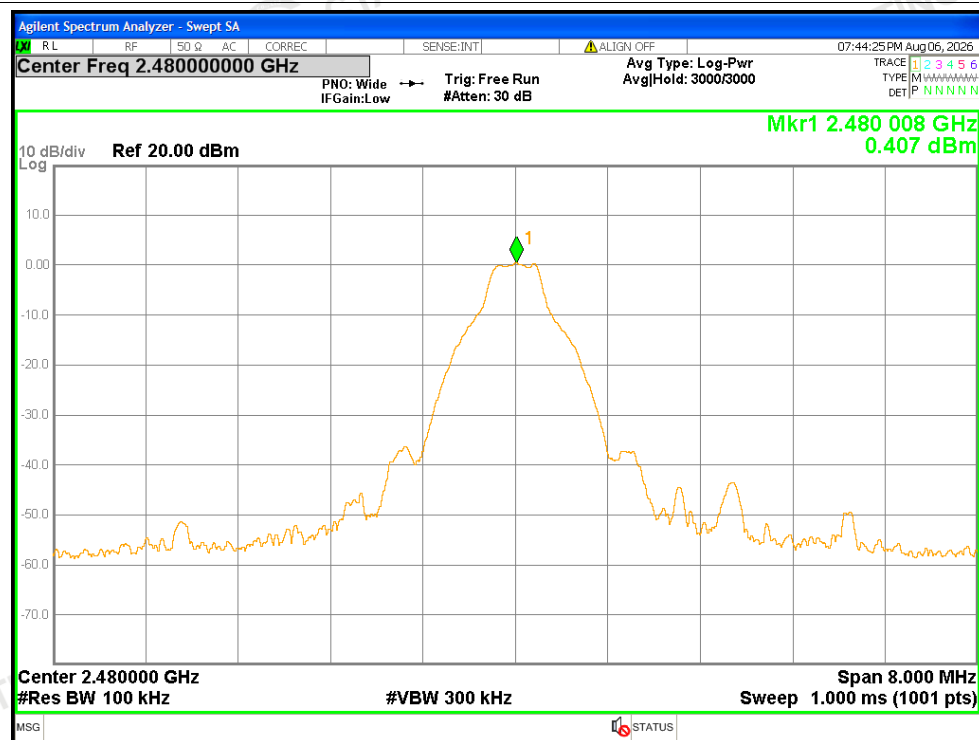




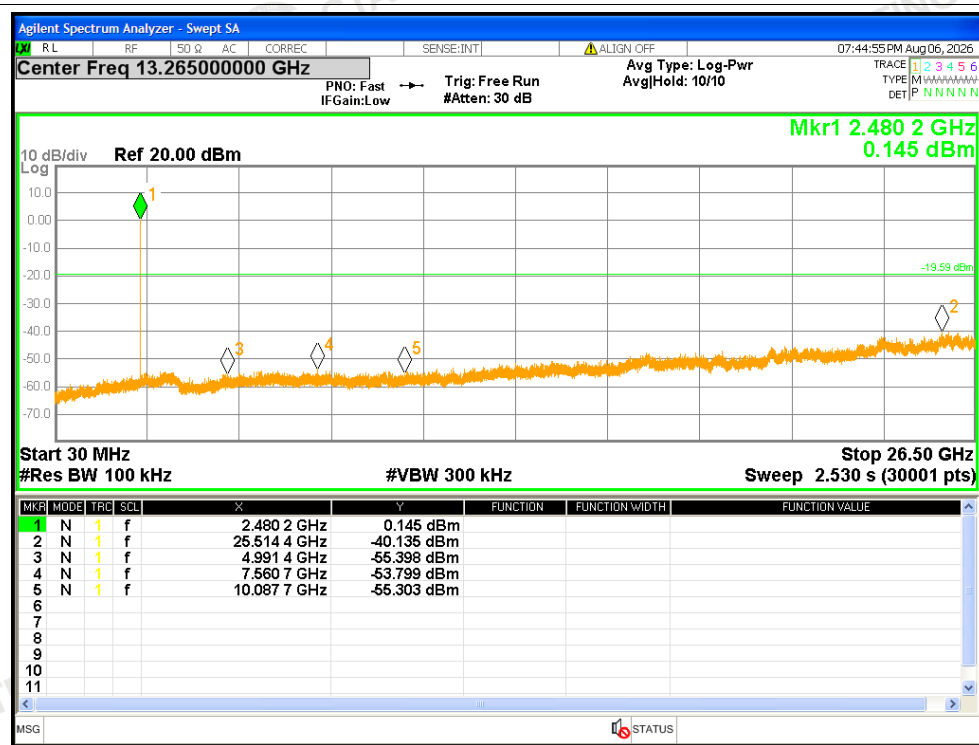
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Tx. Spurious NVNT 1-DH5 2480MHz Ref



Tx. Spurious NVNT 1-DH5 2480MHz Emission

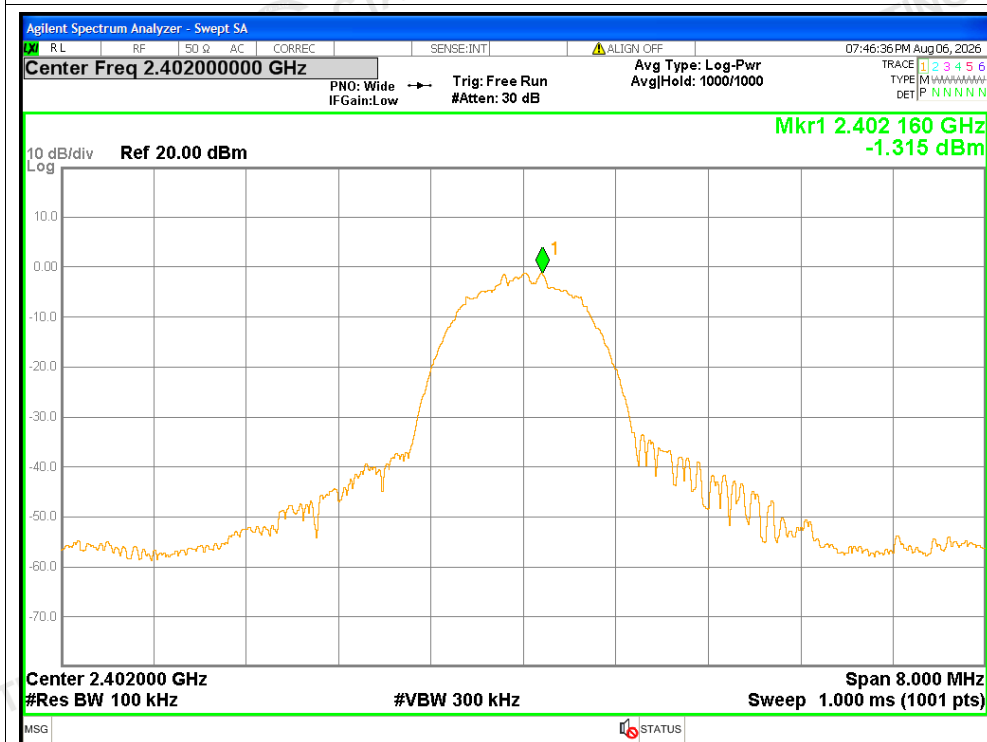




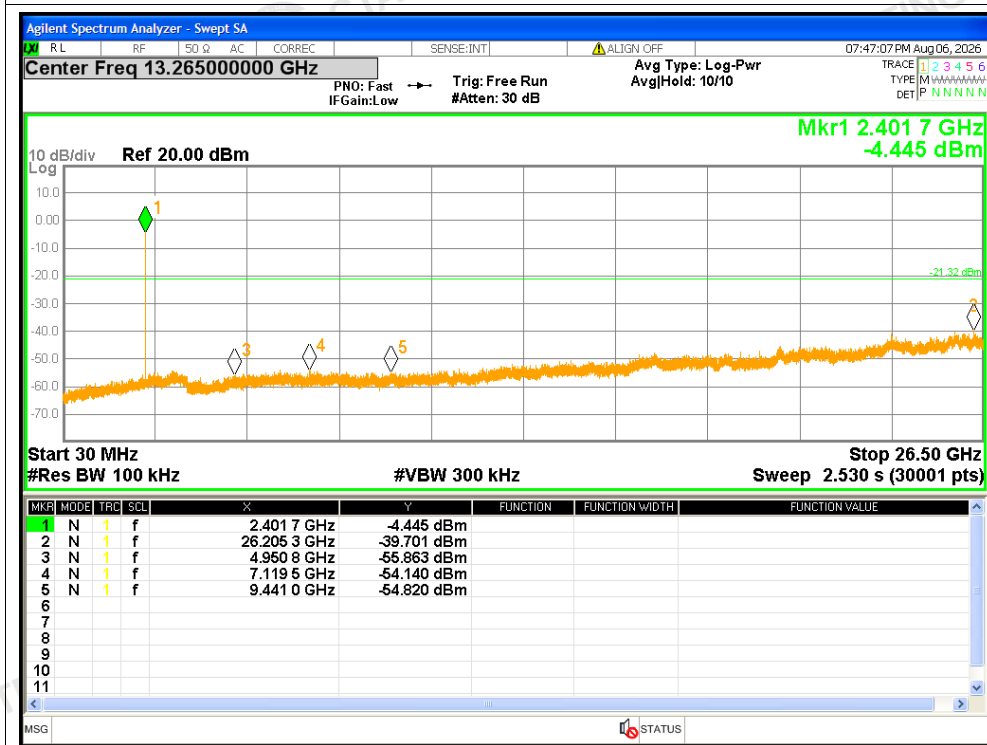
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Tx. Spurious NVNT 2-DH5 2402MHz Ref



Tx. Spurious NVNT 2-DH5 2402MHz Emission

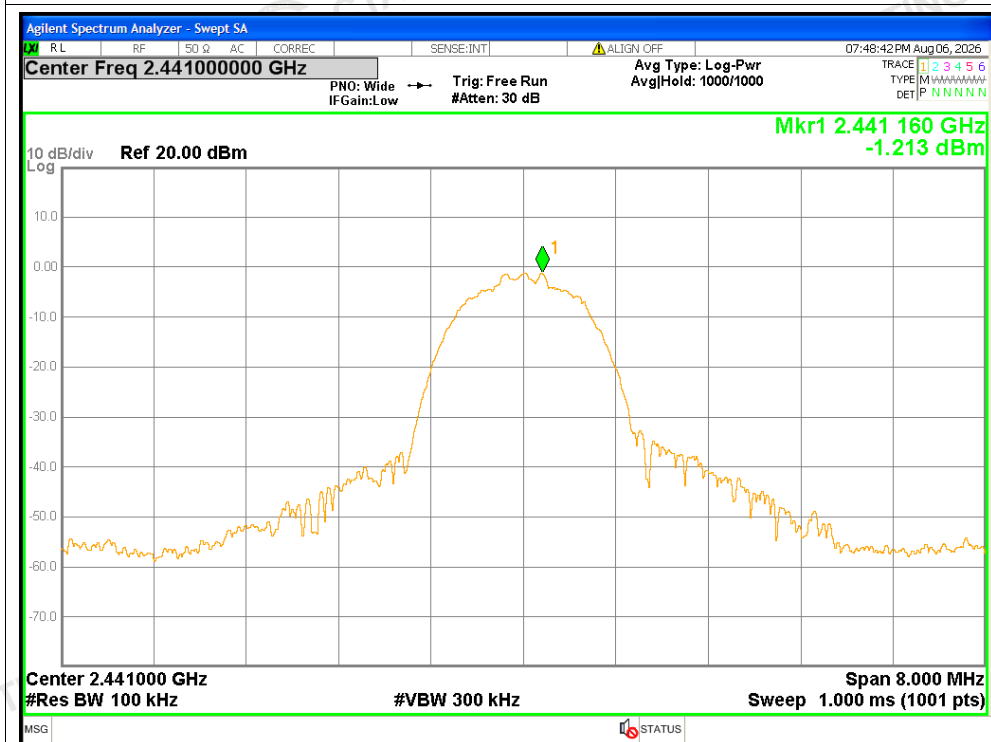




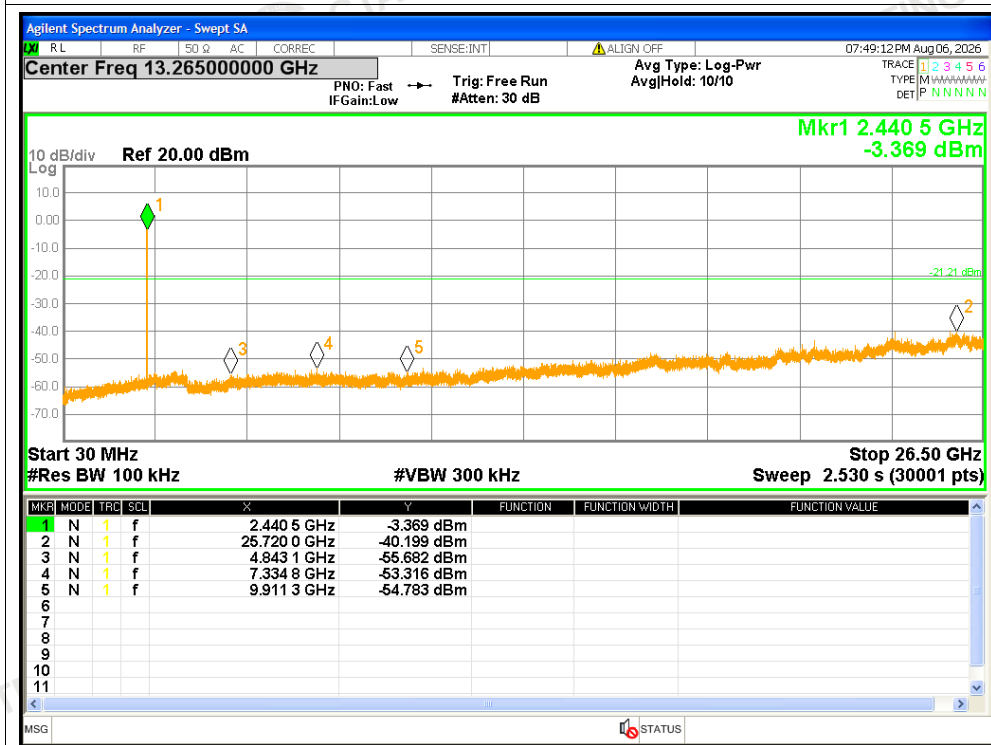
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Tx. Spurious NVNT 2-DH5 2441MHz Ref



Tx. Spurious NVNT 2-DH5 2441MHz Emission

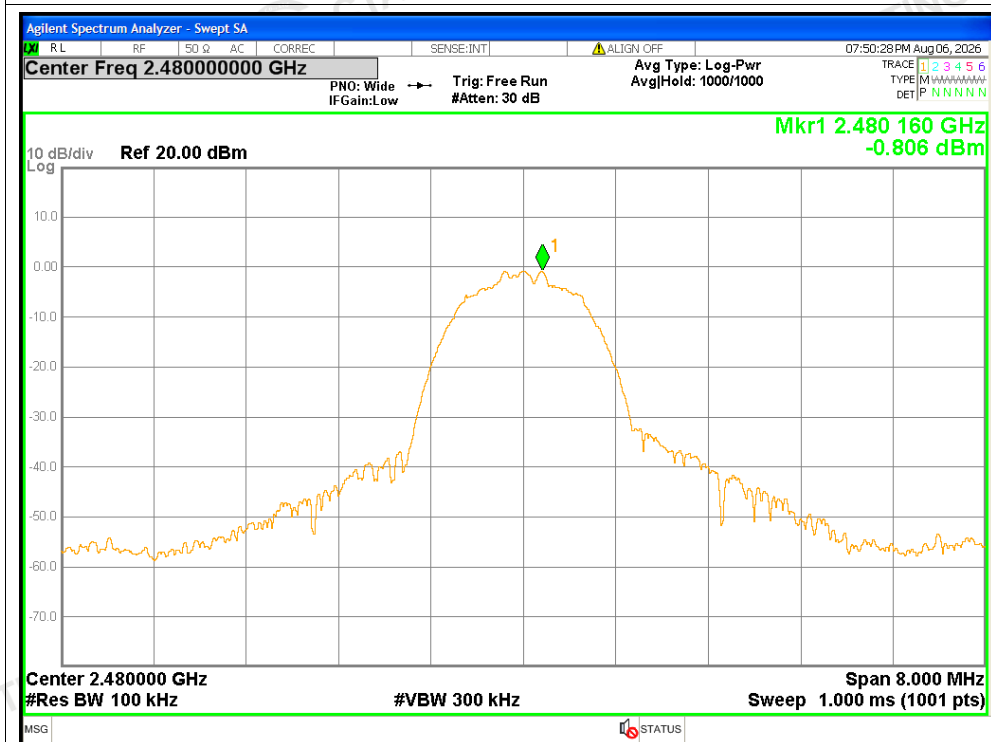




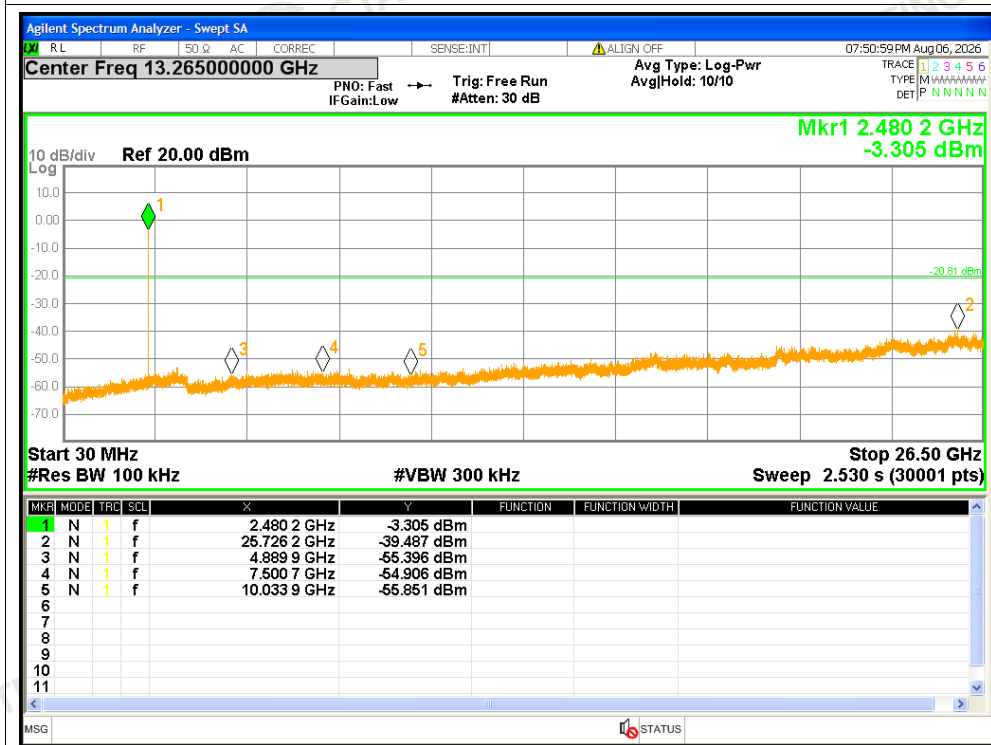
Shenzhen CTA Testing Technology Co., Ltd.

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Tx. Spurious NVNT 2-DH5 2480MHz Ref



Tx. Spurious NVNT 2-DH5 2480MHz Emission

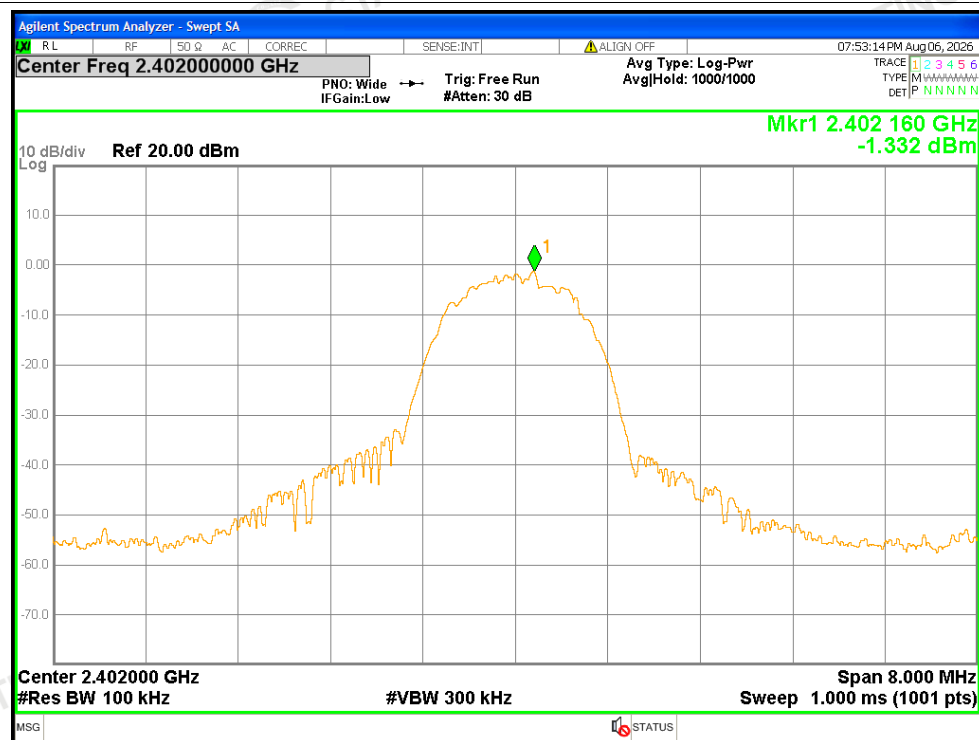




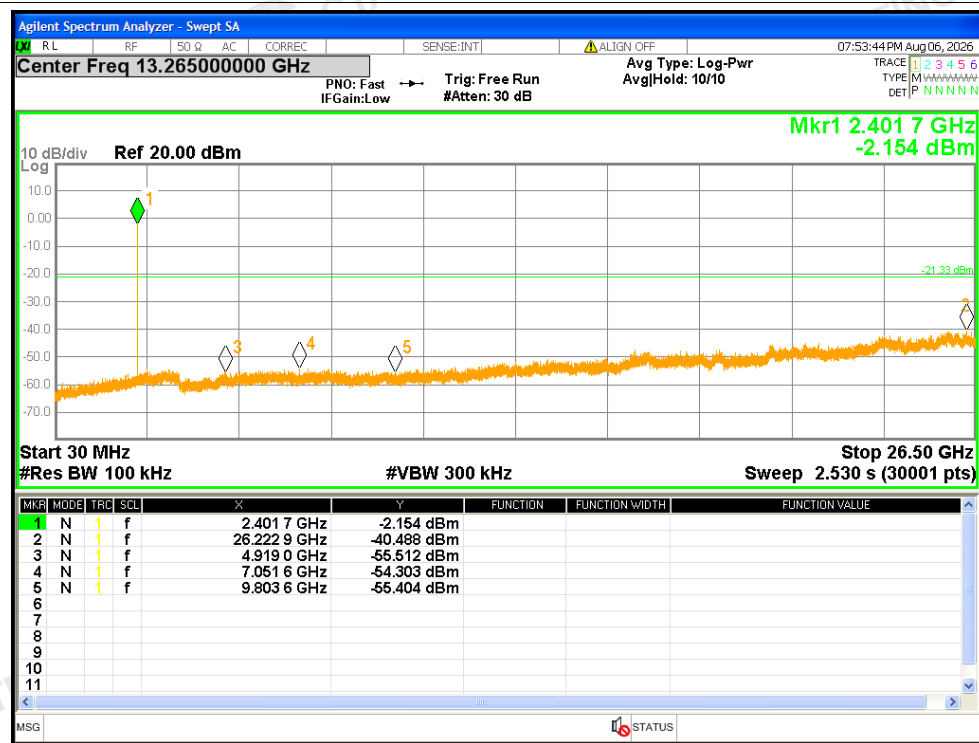
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Tx. Spurious NVNT 3-DH5 2402MHz Ref



Tx. Spurious NVNT 3-DH5 2402MHz Emission

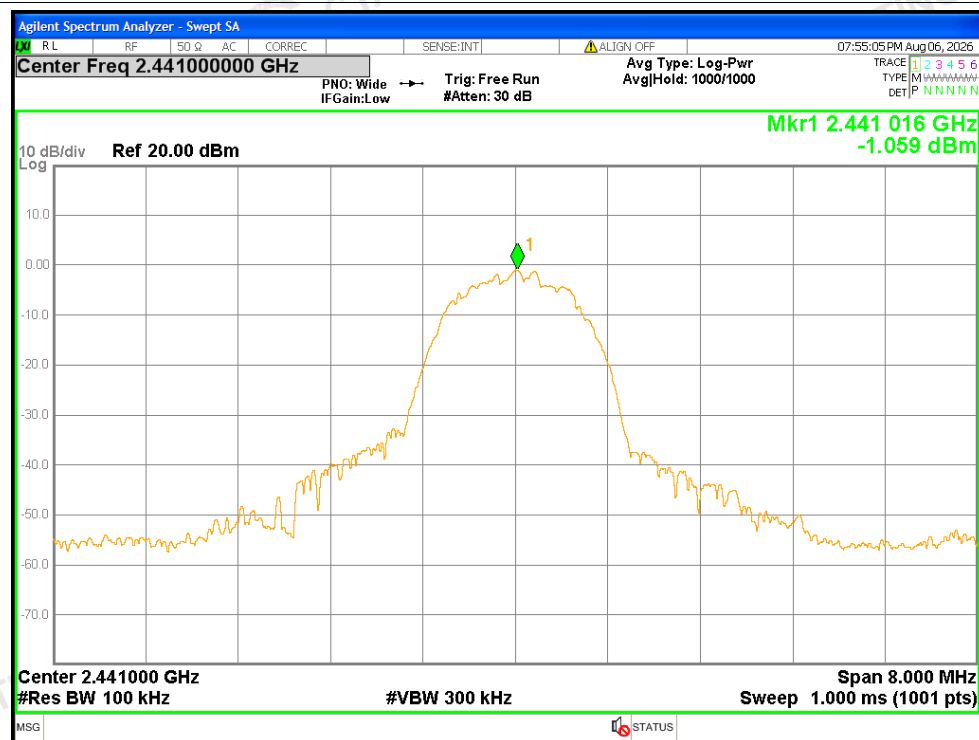




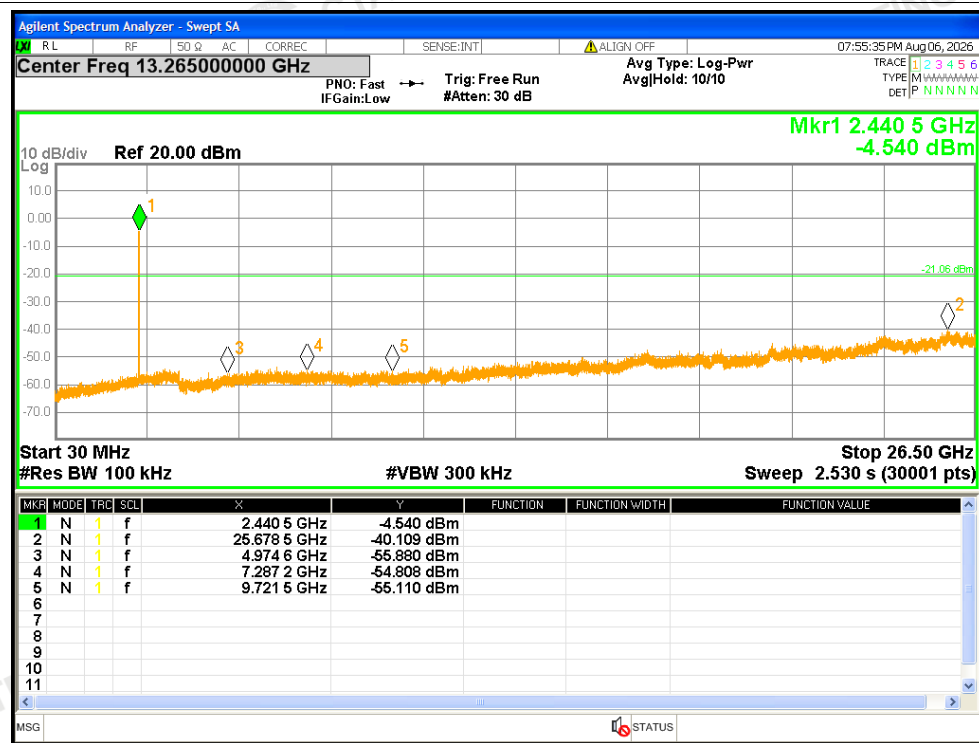
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Tx. Spurious NVNT 3-DH5 2441MHz Ref



Tx. Spurious NVNT 3-DH5 2441MHz Emission

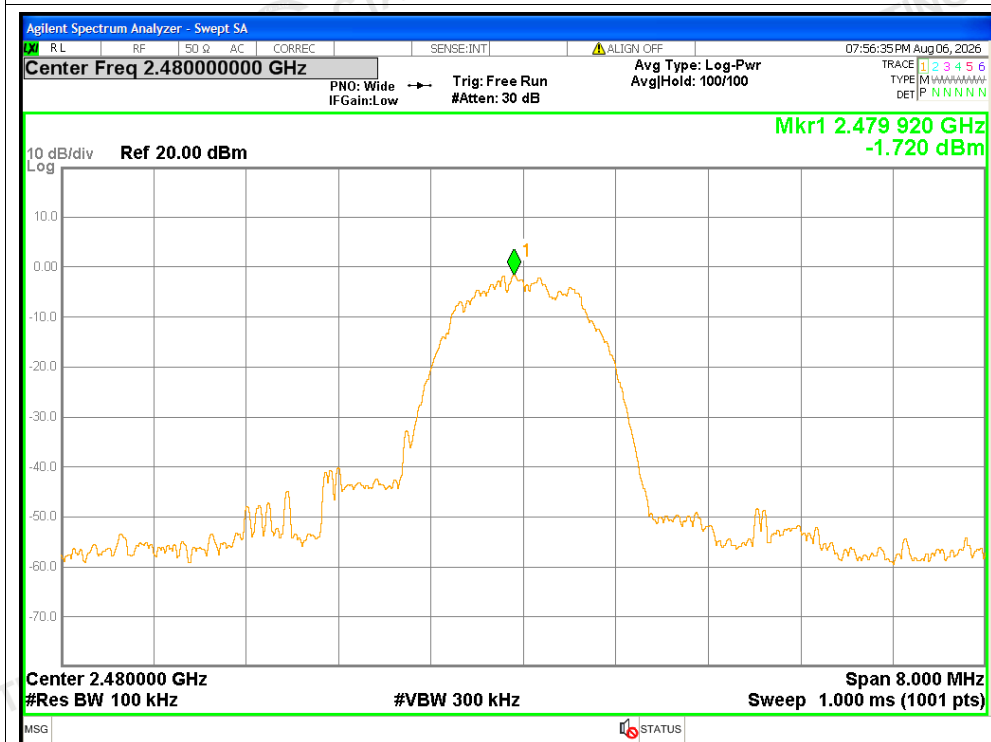




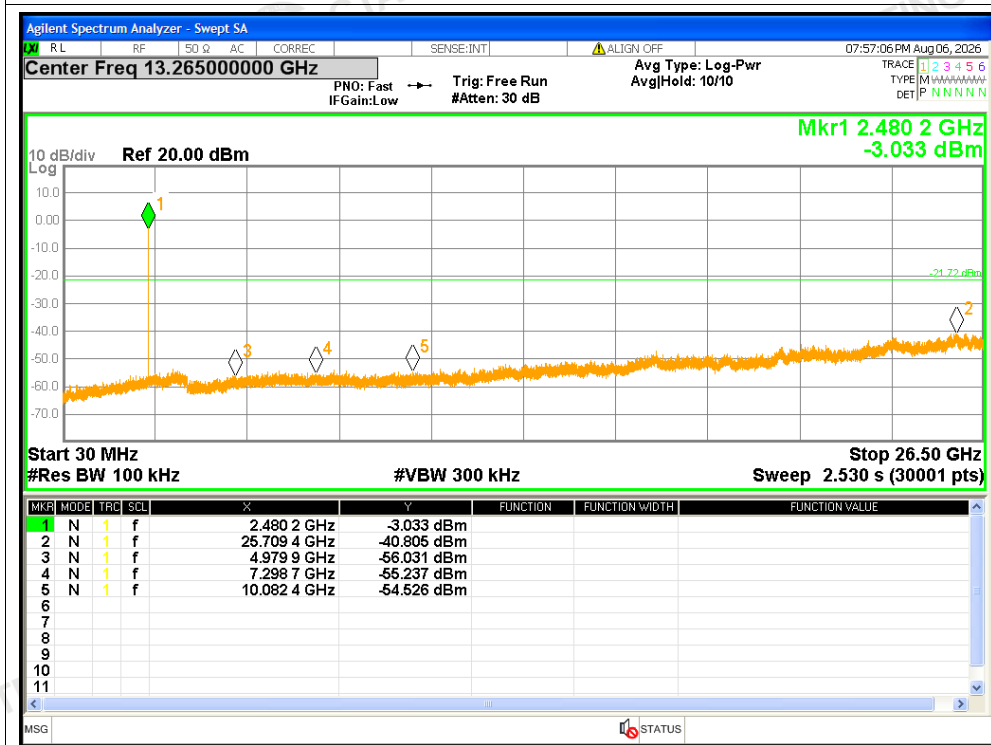
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Tx. Spurious NVNT 3-DH5 2480MHz Ref



Tx. Spurious NVNT 3-DH5 2480MHz Emission





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Restrict Band

Mode	Frequency (MHz)	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
1-DH5	2402	No-Hopping	2310	-51.43	2.8	0	46.63	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2310	-58.01	2.8	1.14	41.19	Average	<=54	Pass
1-DH5	2402	No-Hopping	2325.936	-47.39	2.8	0	50.67	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2342.064	-57.19	2.8	1.14	42.01	Average	<=54	Pass
1-DH5	2402	No-Hopping	2390	-49.81	2.8	0	48.25	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2390	-58.19	2.8	1.14	41.01	Average	<=54	Pass
1-DH5	2480	No-Hopping	2483.5	-48.25	2.8	0	49.81	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2483.5	-56.88	2.8	1.14	42.32	Average	<=54	Pass
1-DH5	2480	No-Hopping	2487.712	-41.91	2.8	0	56.15	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2487.208	-55.31	2.8	1.14	43.89	Average	<=54	Pass
1-DH5	2480	No-Hopping	2500	-49.18	2.8	0	48.88	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2500	-57.95	2.8	1.14	41.25	Average	<=54	Pass
2-DH5	2402	No-Hopping	2310	-50.46	2.8	0	47.6	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2310	-58.55	2.8	1.13	40.64	Average	<=54	Pass
2-DH5	2402	No-Hopping	2342.064	-46.81	2.8	0	51.25	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2389.872	-56.83	2.8	1.13	42.36	Average	<=54	Pass
2-DH5	2402	No-Hopping	2390	-49.37	2.8	0	48.69	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2390	-57.78	2.8	1.13	41.41	Average	<=54	Pass
2-DH5	2480	No-Hopping	2483.5	-45.97	2.8	0	52.09	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2483.5	-55.66	2.8	1.13	43.53	Average	<=54	Pass
2-DH5	2480	No-Hopping	2487.232	-43.24	2.8	0	54.82	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2483.656	-55.02	2.8	1.13	44.17	Average	<=54	Pass
2-DH5	2480	No-Hopping	2500	-50.48	2.8	0	47.58	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2500	-57.25	2.8	1.13	41.94	Average	<=54	Pass
3-DH5	2402	No-Hopping	2310	-50.1	2.8	0	47.96	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2310	-58.38	2.8	1.13	40.81	Average	<=54	Pass
3-DH5	2402	No-Hopping	2384.496	-47.6	2.8	0	50.46	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2342.352	-56.72	2.8	1.13	42.47	Average	<=54	Pass
3-DH5	2402	No-Hopping	2390	-50.61	2.8	0	47.45	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2390	-57.4	2.8	1.13	41.79	Average	<=54	Pass
3-DH5	2480	No-Hopping	2483.5	-44.34	2.8	0	53.72	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2483.5	-54.26	2.8	1.13	44.93	Average	<=54	Pass
3-DH5	2480	No-Hopping	2487.112	-42.35	2.8	0	55.71	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2483.536	-53.74	2.8	1.13	45.45	Average	<=54	Pass
3-DH5	2480	No-Hopping	2500	-46.92	2.8	0	51.14	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2500	-57.38	2.8	1.13	41.81	Average	<=54	Pass

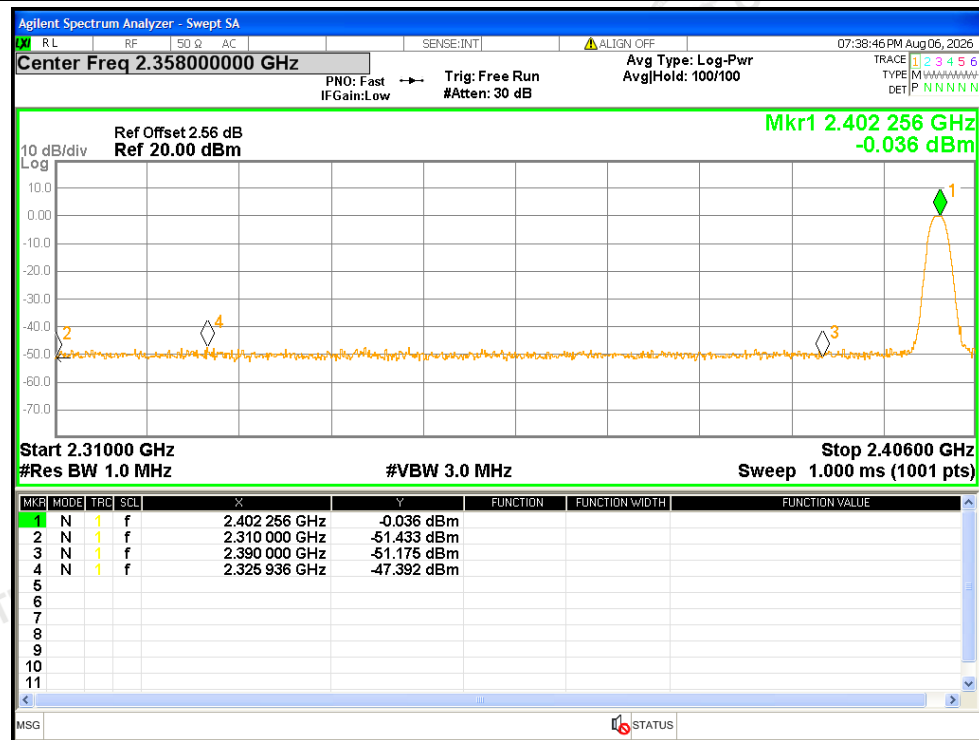


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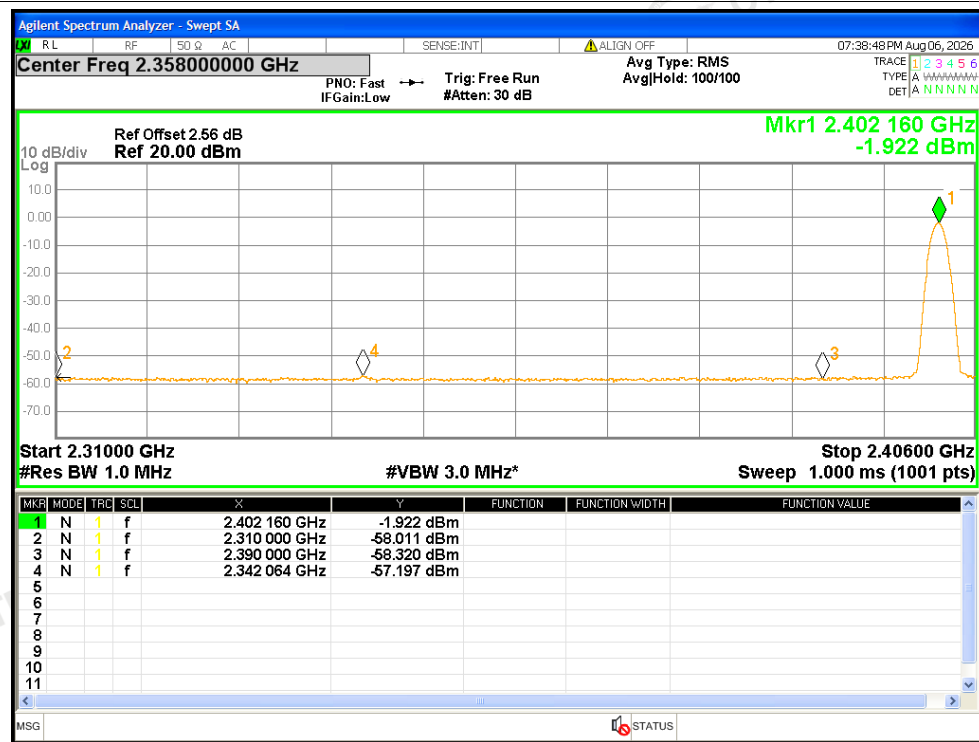
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Test Graphs

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



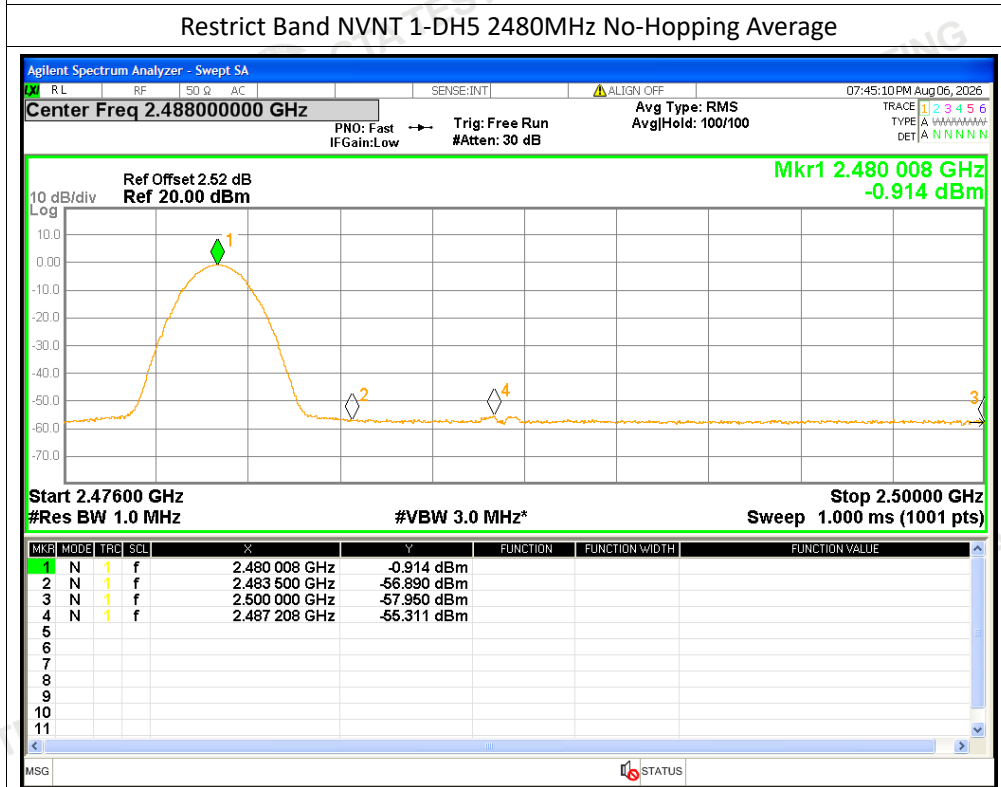
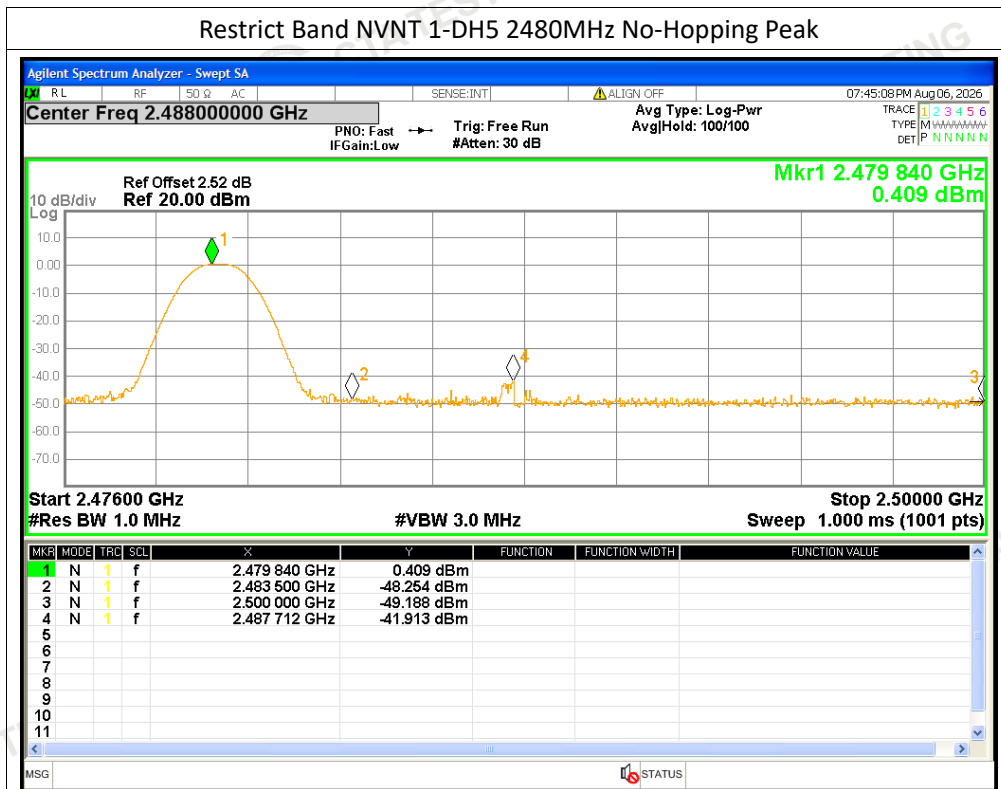
Restrict Band NVNT 1-DH5 2402MHz No-Hopping Average





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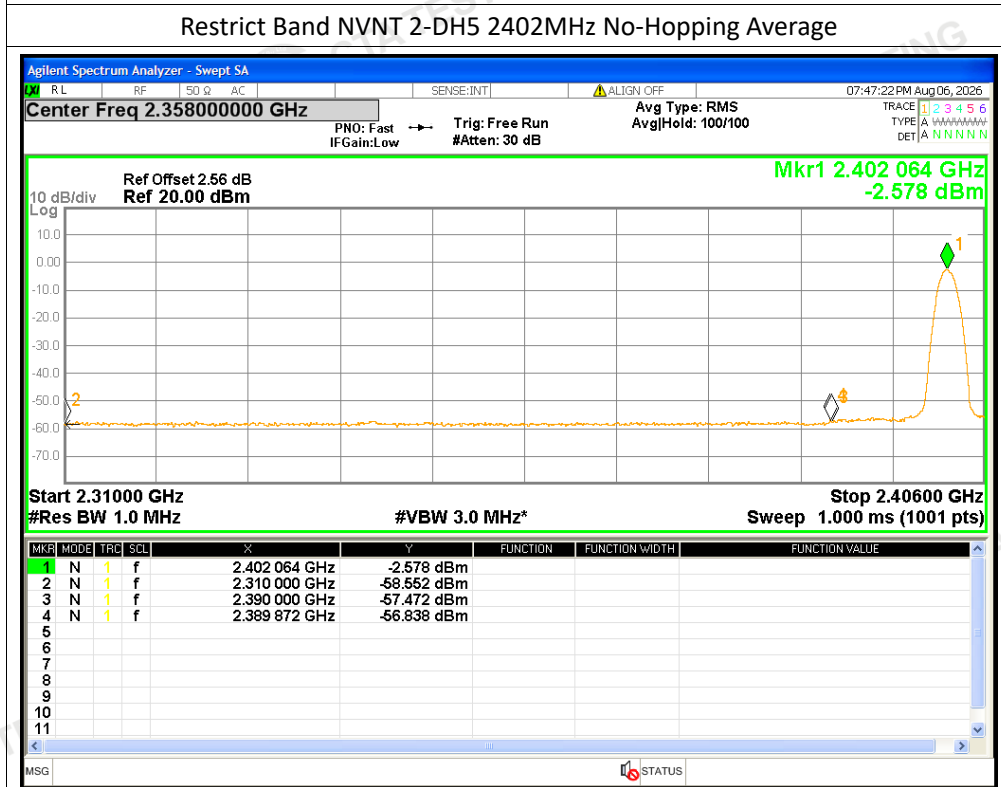
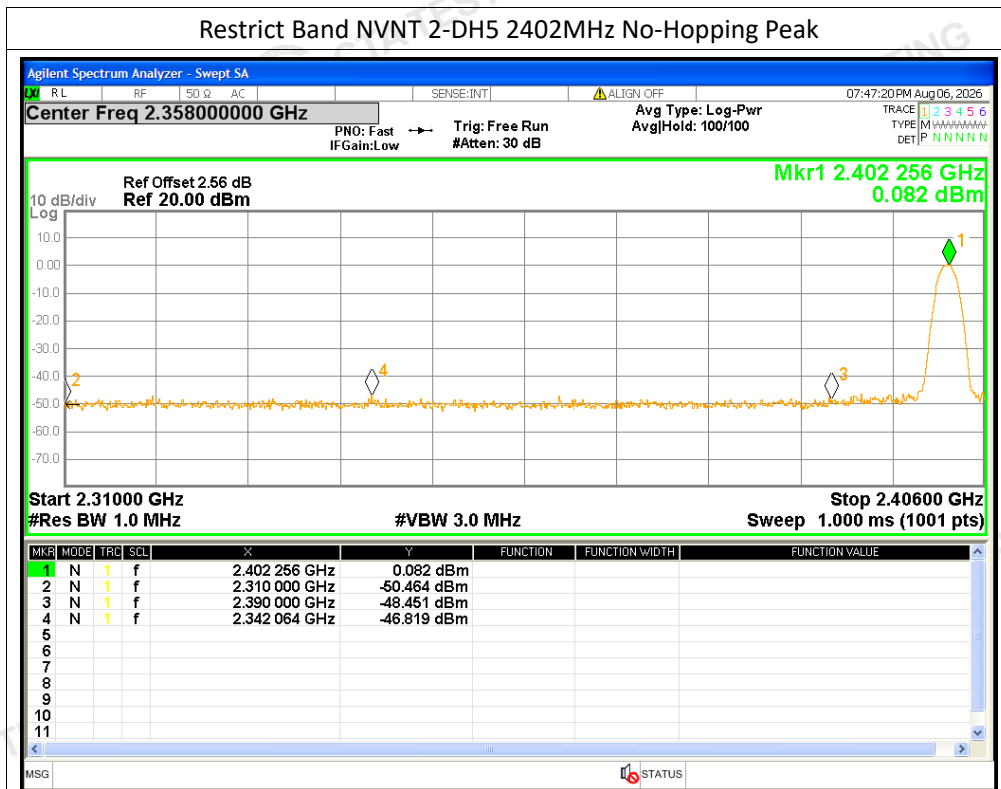
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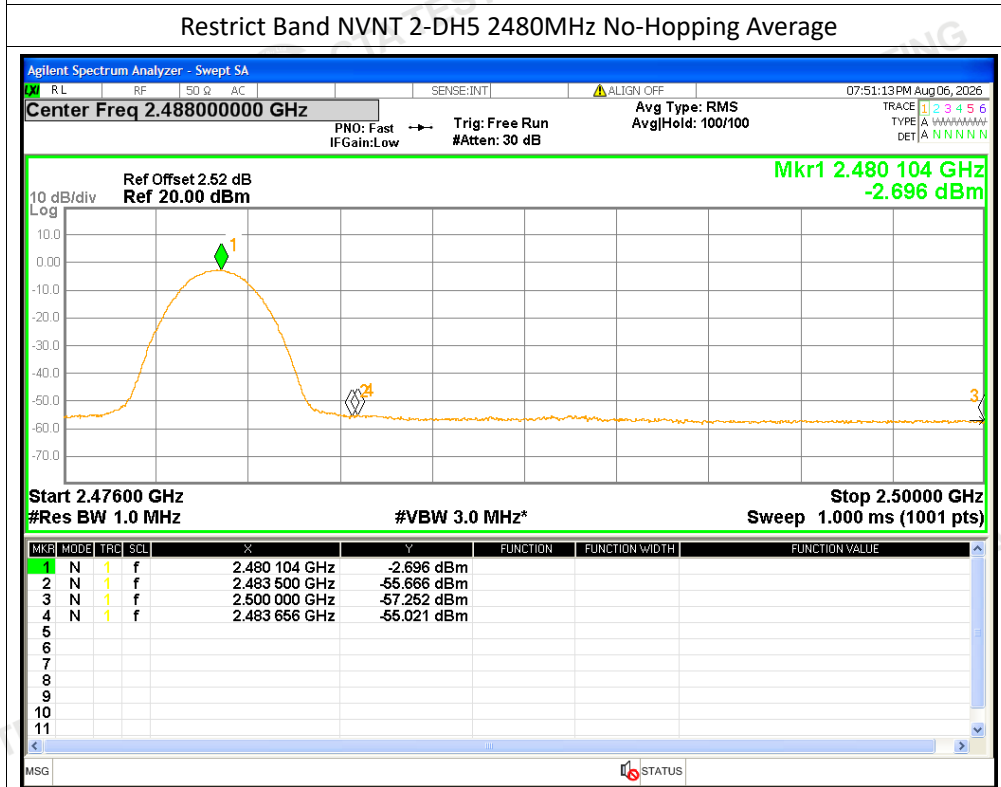
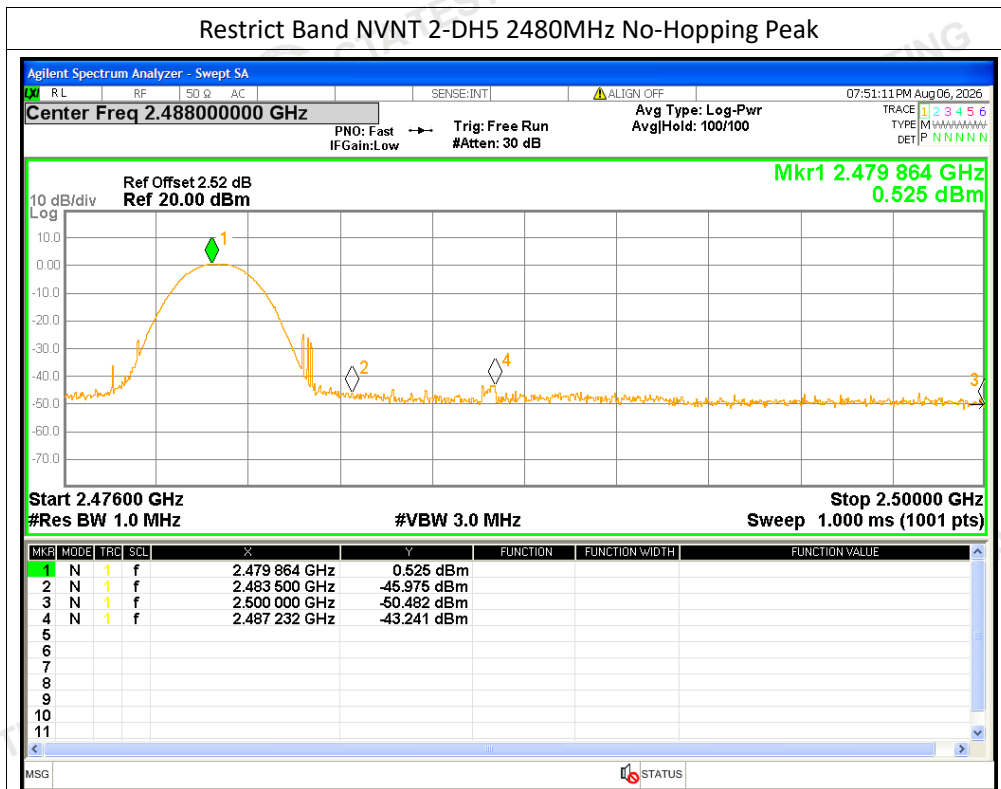
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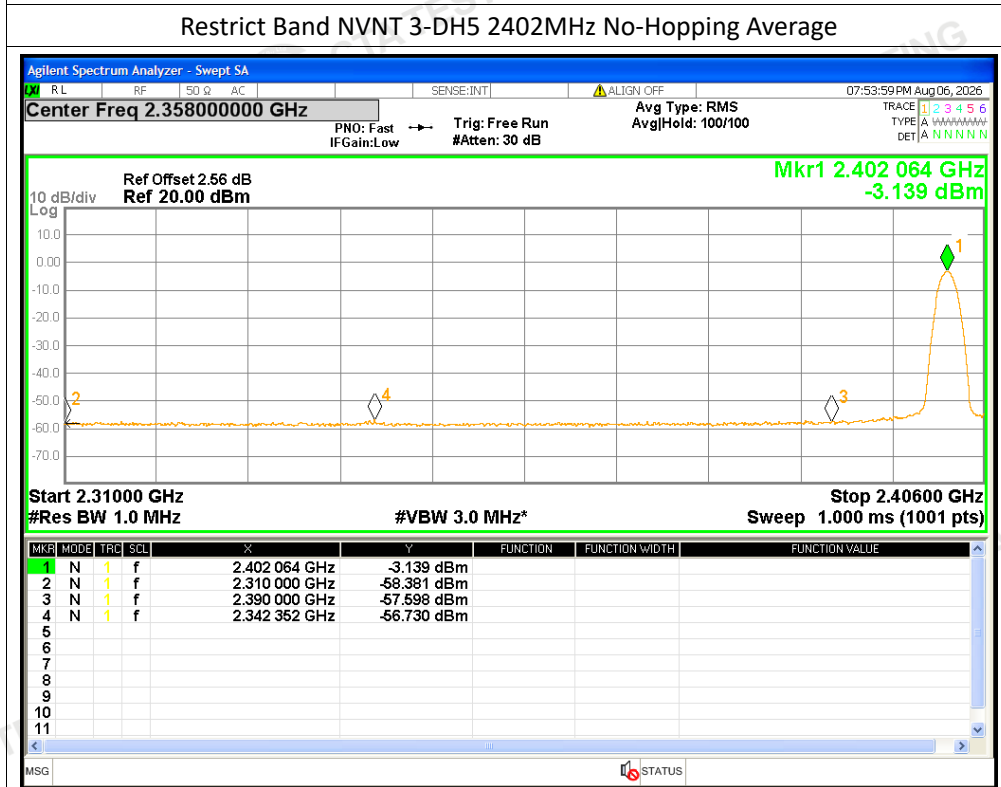
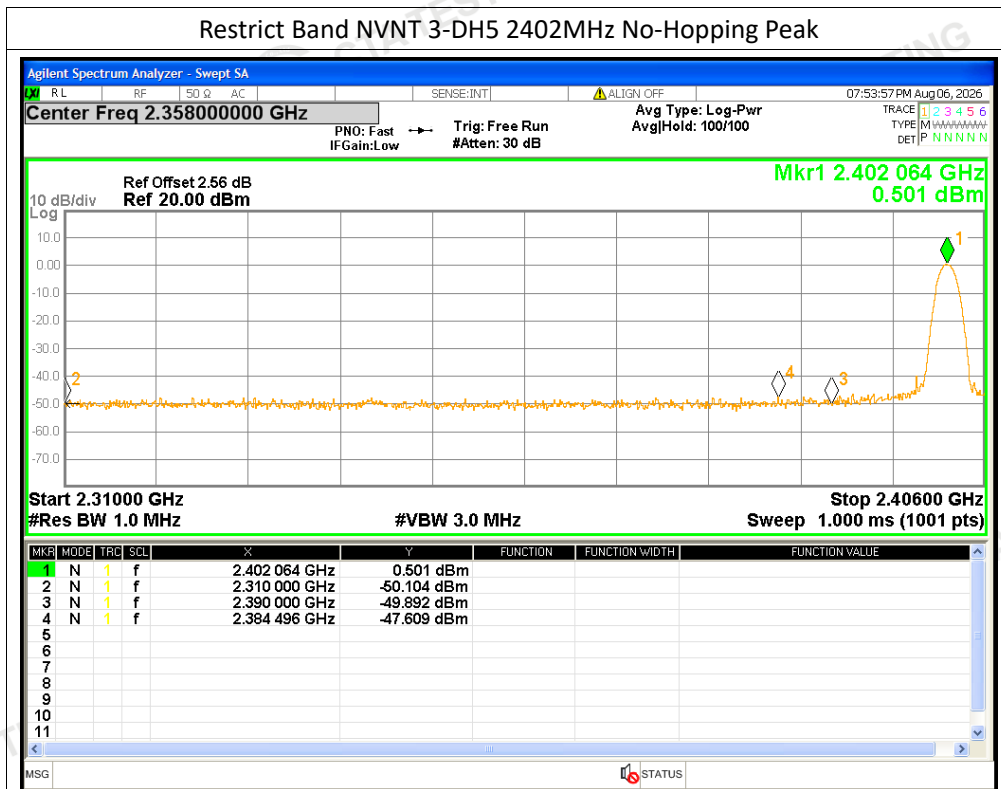
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