

FCC Appendix RF Test Data for BT

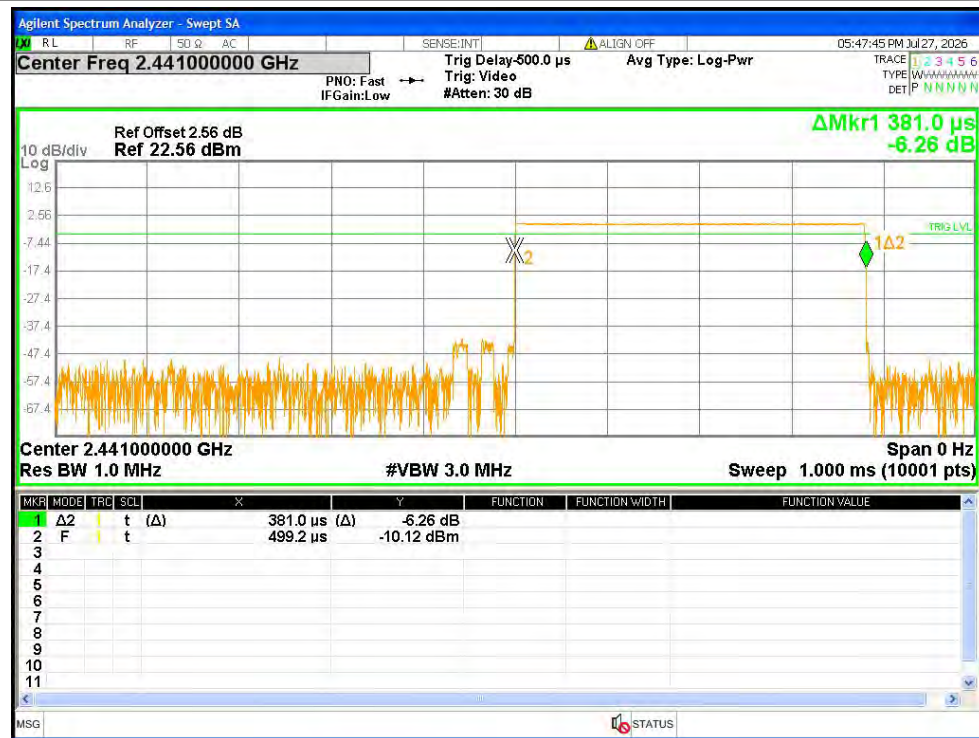
FCC ID : 2AUARTKVGO
Company : THINKCAR TECH CO., LTD.
EUT : TPMS INTELLIGENT DETECTION TOOL
Model Number : V-GO
Report No. : CTA06071800102
Reviewed By : Eric Wang

Dwell Time

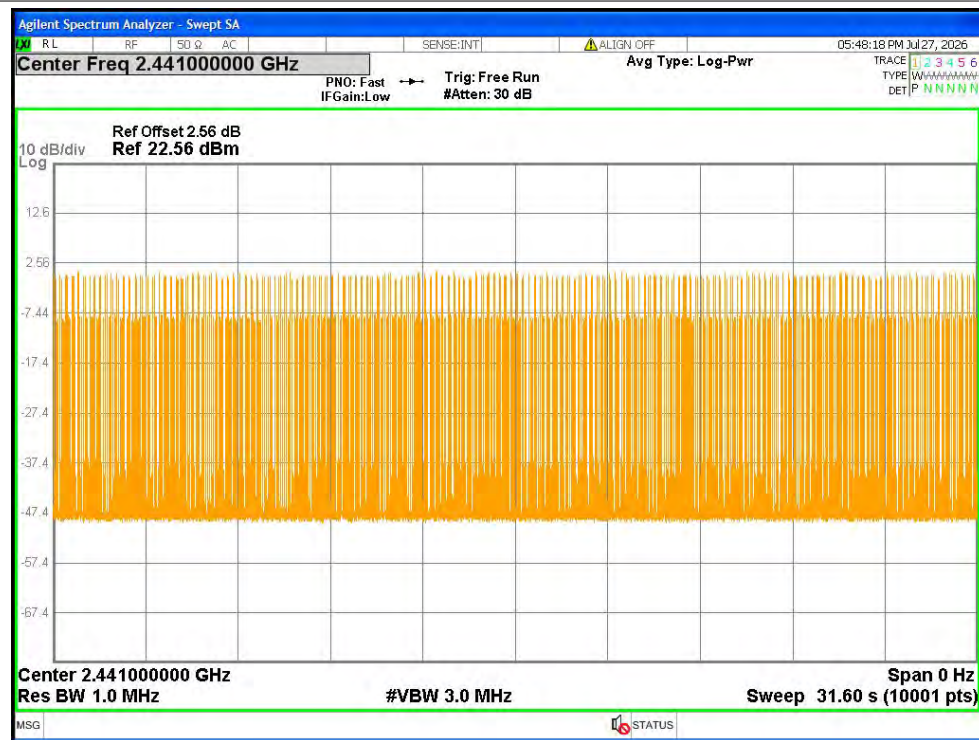
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.381	120.015	315	31600	<=400	Pass
1-DH3	2441	1.636	258.488	158	31600	<=400	Pass
1-DH5	2441	2.885	308.695	107	31600	<=400	Pass
2-DH1	2441	0.389	122.535	315	31600	<=400	Pass
2-DH3	2441	1.642	238.09	145	31600	<=400	Pass
2-DH5	2441	2.889	300.456	104	31600	<=400	Pass
3-DH1	2441	0.389	122.146	314	31600	<=400	Pass
3-DH3	2441	1.64	262.4	160	31600	<=400	Pass
3-DH5	2441	2.891	309.337	107	31600	<=400	Pass

Test Graphs

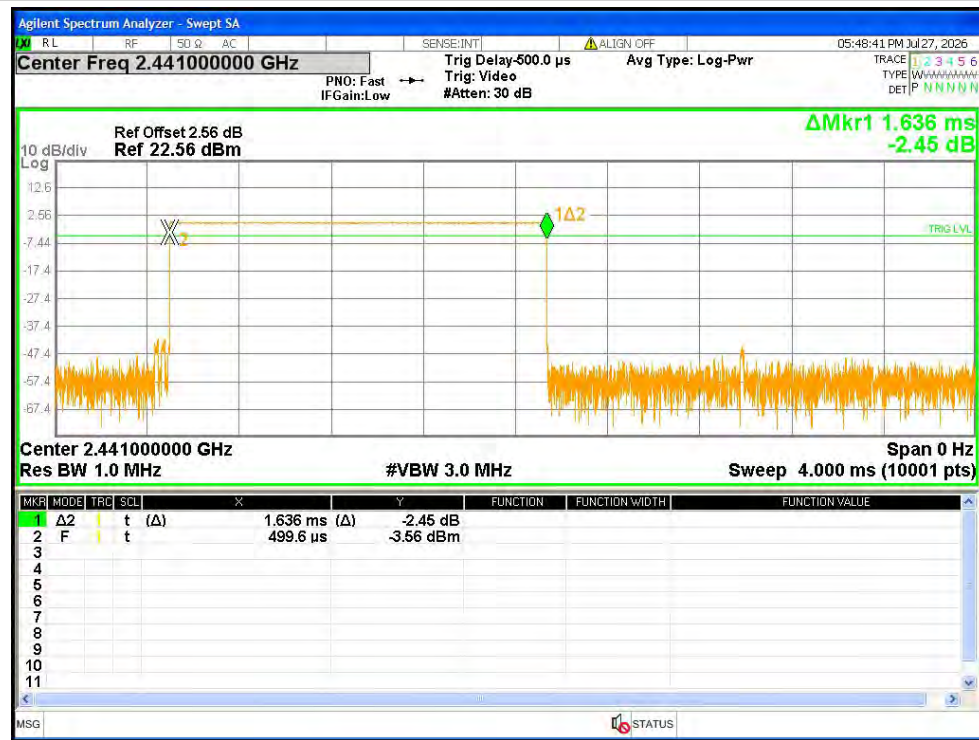
Dwell NVNT 1-DH1 2441MHz One Burst



Dwell NVNT 1-DH1 2441MHz Accumulated



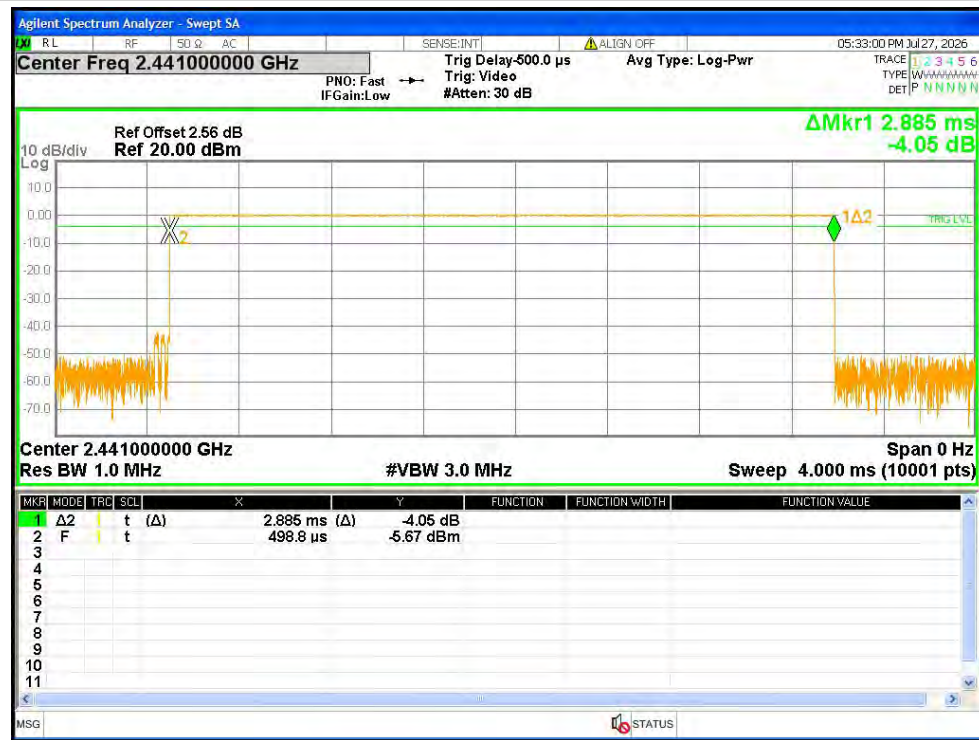
Dwell NVNT 1-DH3 2441MHz One Burst



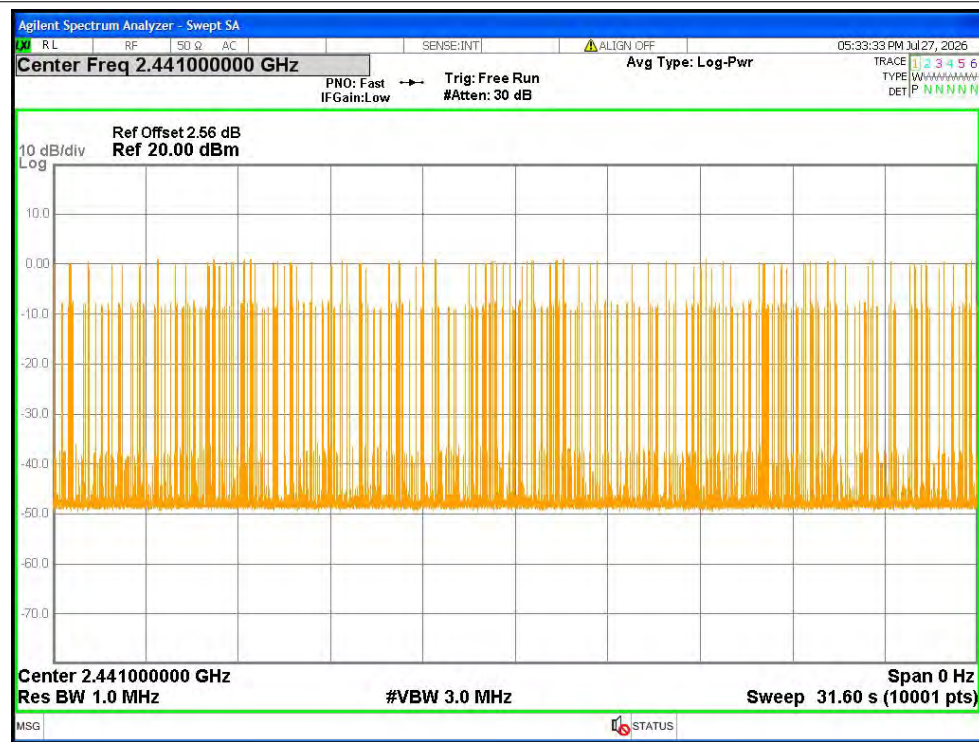
Dwell NVNT 1-DH3 2441MHz Accumulated



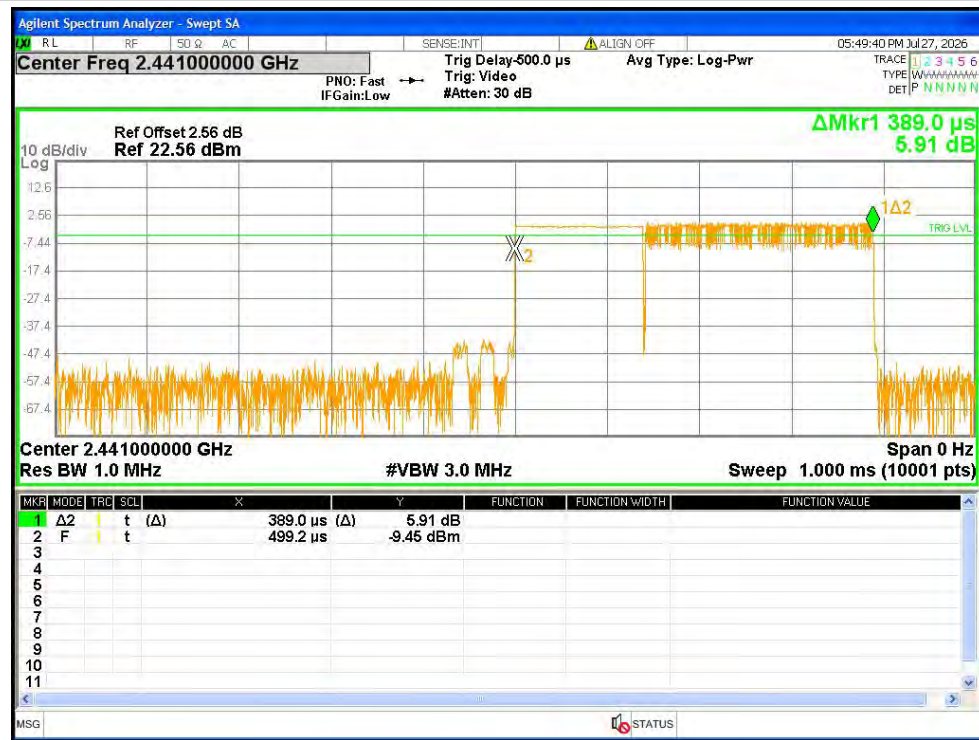
Dwell NVNT 1-DH5 2441MHz One Burst



Dwell NVNT 1-DH5 2441MHz Accumulated



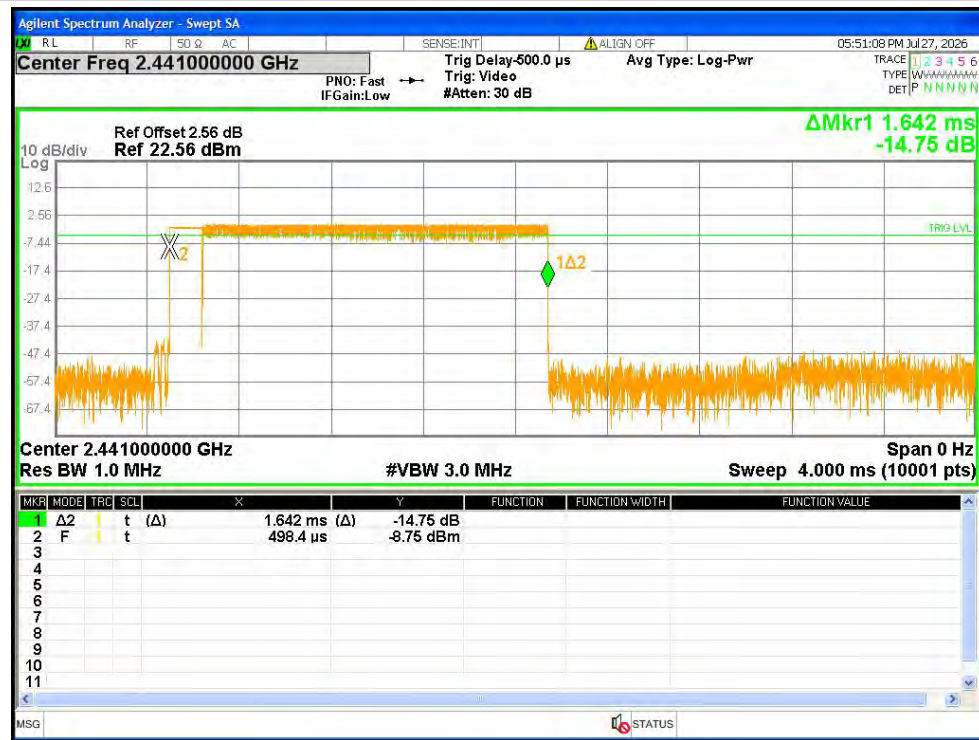
Dwell NVNT 2-DH1 2441MHz One Burst



Dwell NVNT 2-DH1 2441MHz Accumulated



Dwell NVNT 2-DH3 2441MHz One Burst



Dwell NVNT 2-DH3 2441MHz Accumulated



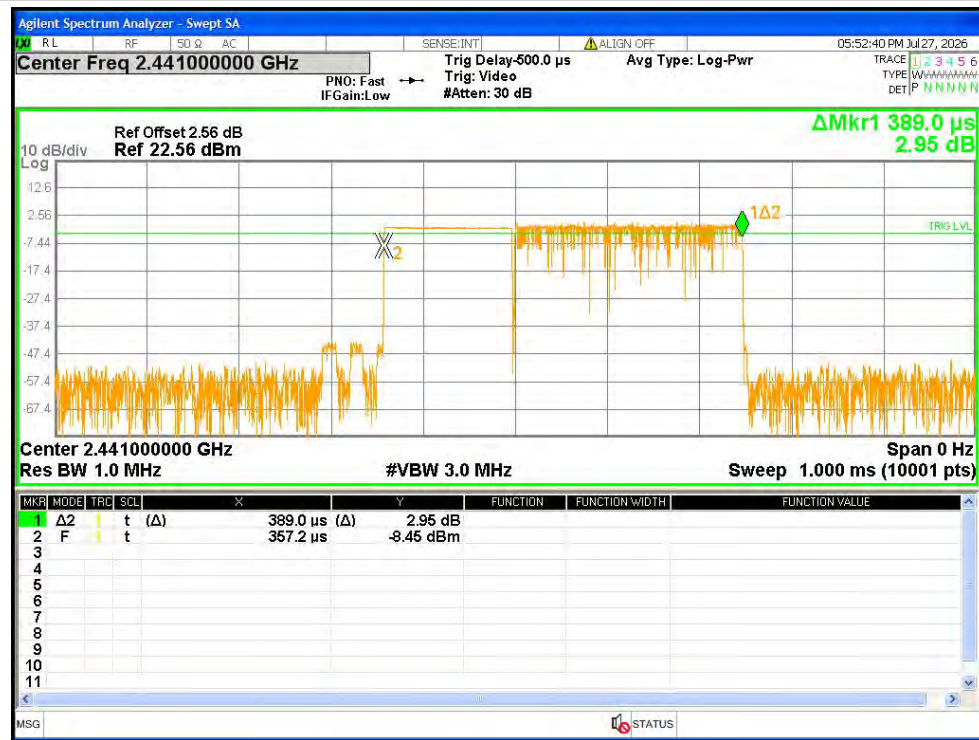
Dwell NVNT 2-DH5 2441MHz One Burst



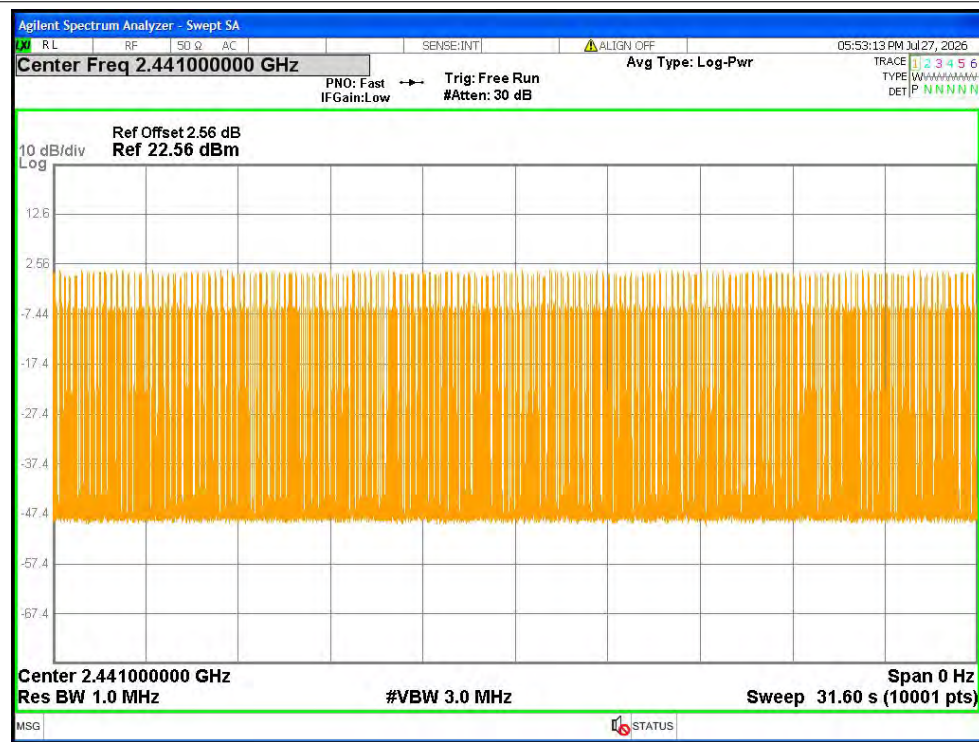
Dwell NVNT 2-DH5 2441MHz Accumulated



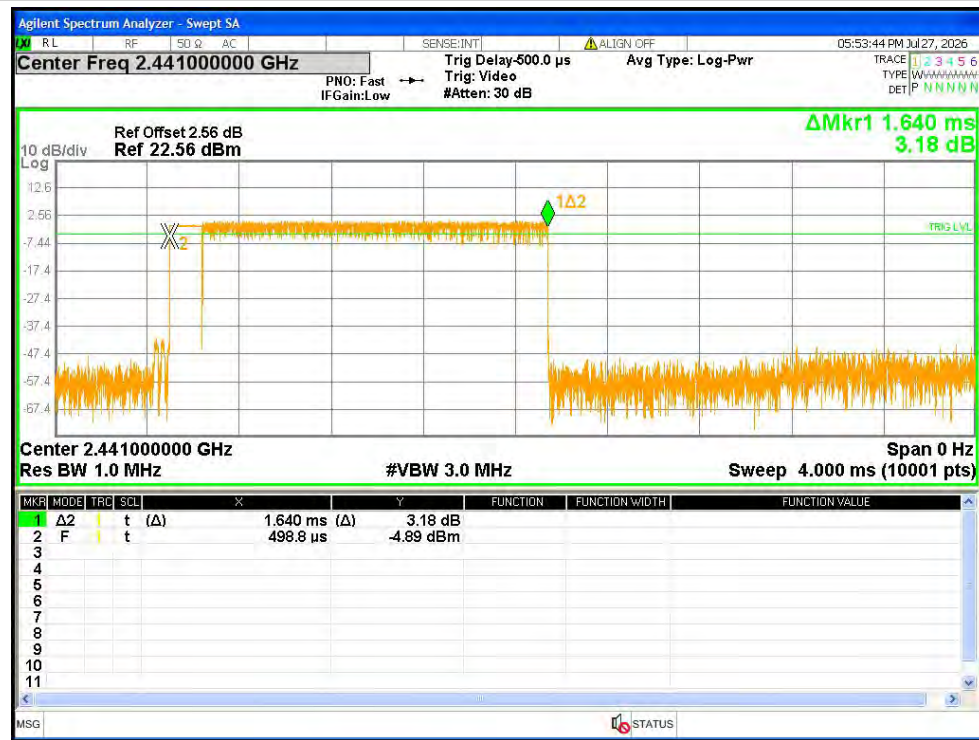
Dwell NVNT 3-DH1 2441MHz One Burst



Dwell NVNT 3-DH1 2441MHz Accumulated



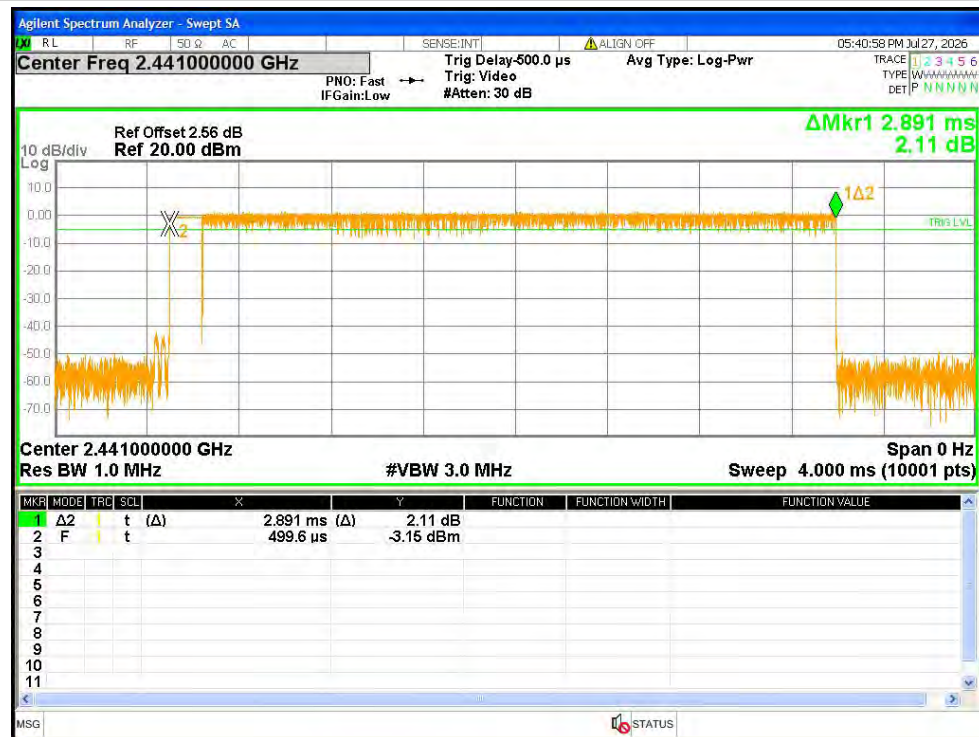
Dwell NVNT 3-DH3 2441MHz One Burst



Dwell NVNT 3-DH3 2441MHz Accumulated



Dwell NVNT 3-DH5 2441MHz One Burst



Dwell NVNT 3-DH5 2441MHz Accumulated

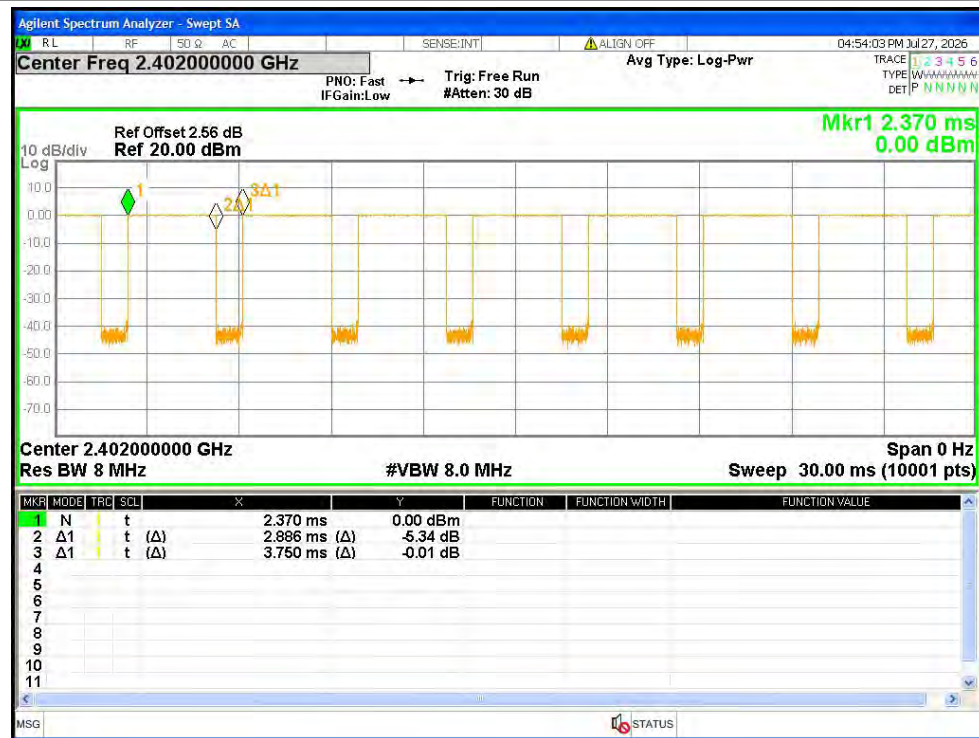


Duty Cycle

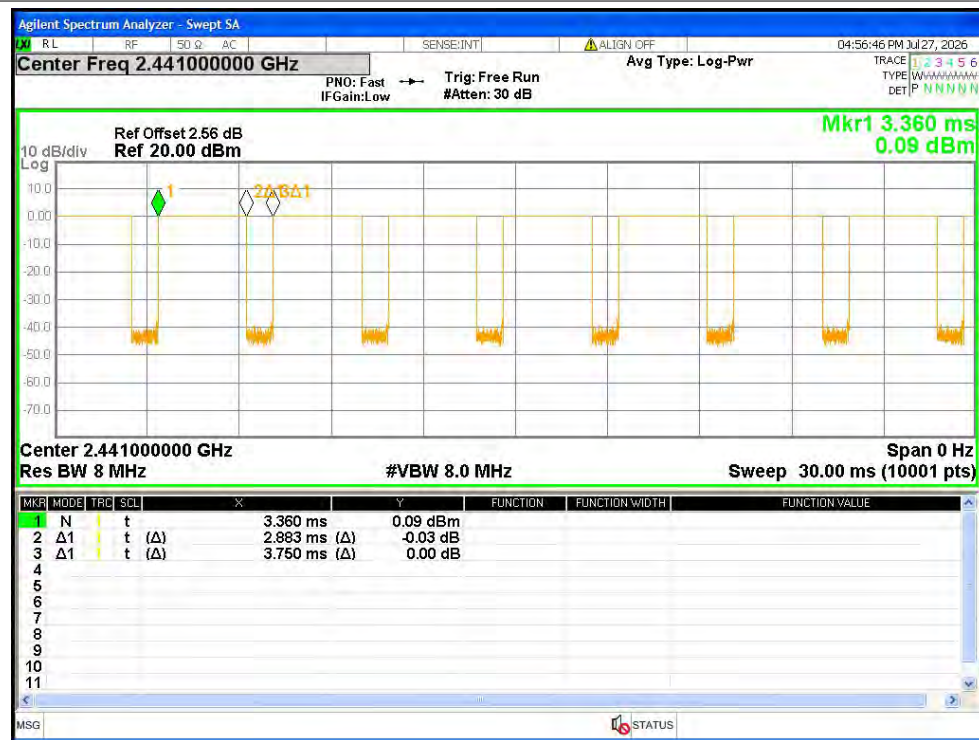
Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
1-DH5	2402	2.886	3.75	76.96	1.14	0.35
1-DH5	2441	2.883	3.75	76.88	1.14	0.35
1-DH5	2480	2.886	3.75	76.96	1.14	0.35
2-DH5	2402	2.889	3.75	77.04	1.13	0.35
2-DH5	2441	2.892	3.75	77.12	1.13	0.35
2-DH5	2480	2.889	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

Test Graphs

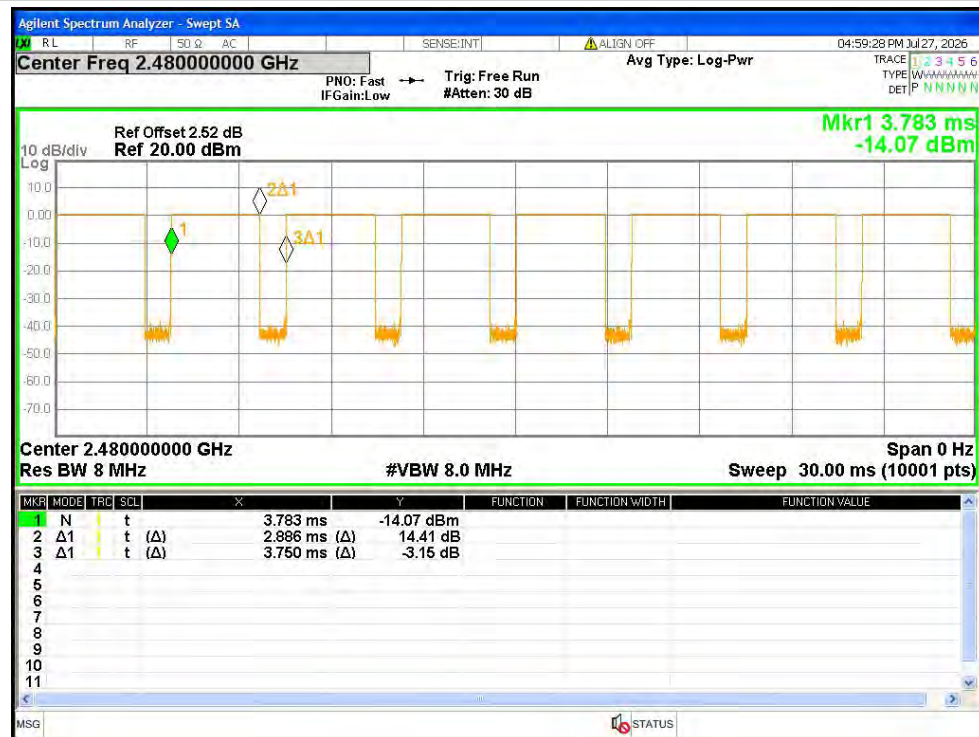
Duty Cycle NVNT 1-DH5 2402MHz



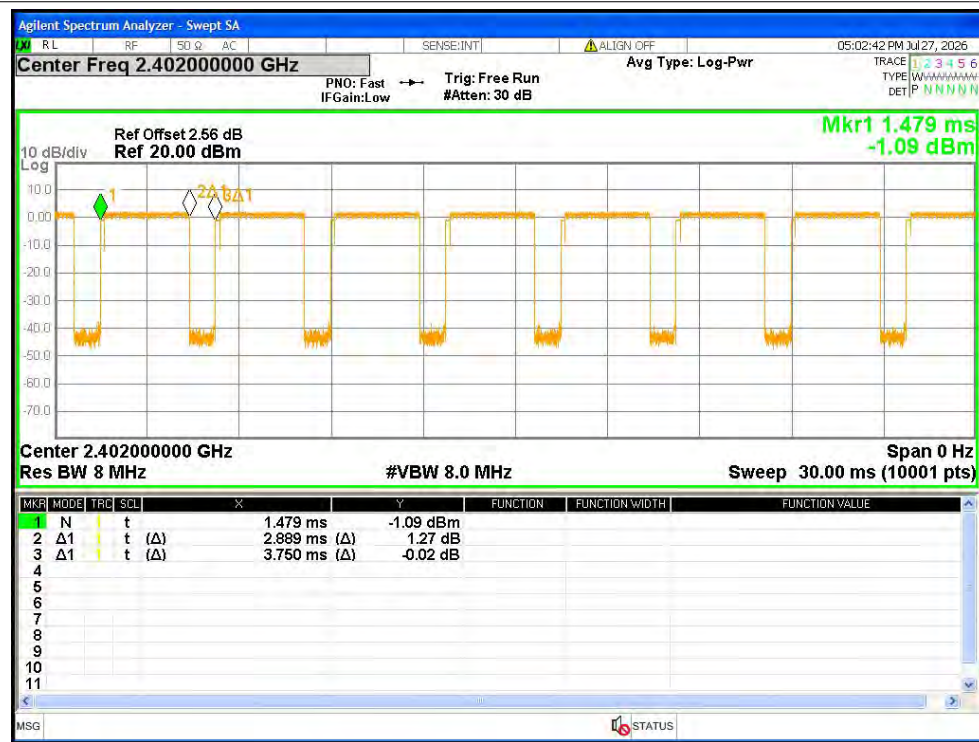
Duty Cycle NVNT 1-DH5 2441MHz



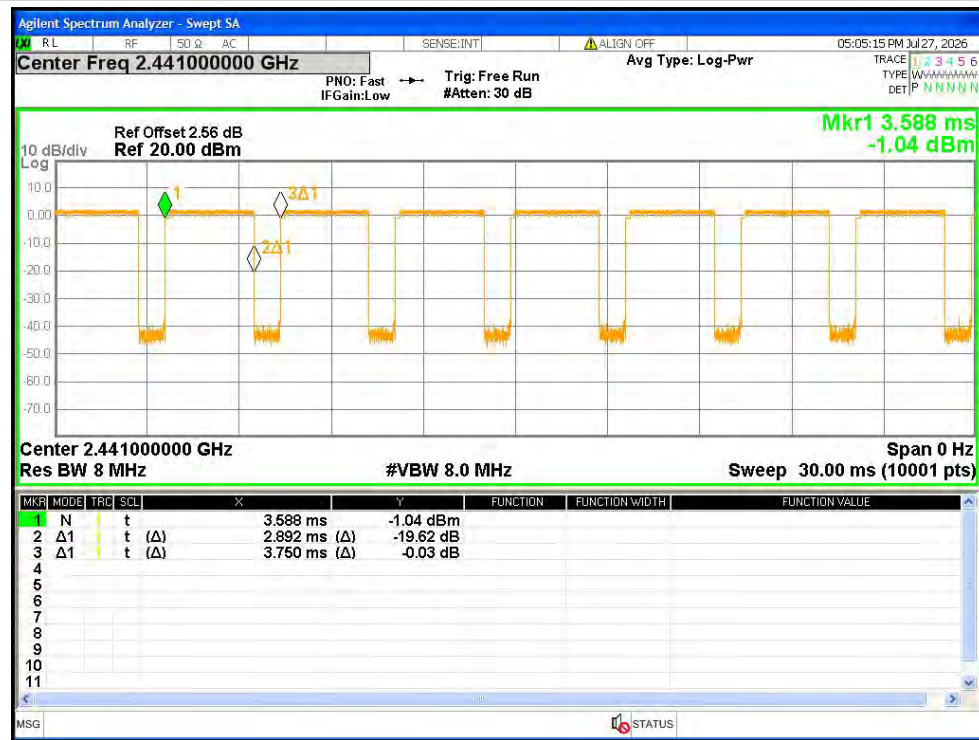
Duty Cycle NVNT 1-DH5 2480MHz



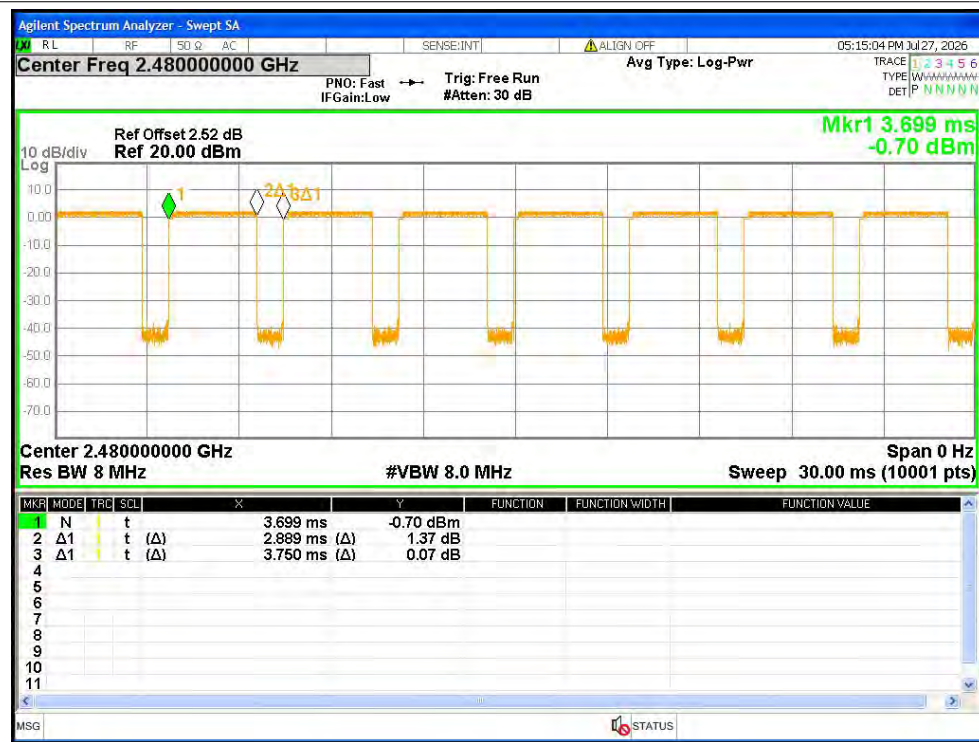
Duty Cycle NVNT 2-DH5 2402MHz



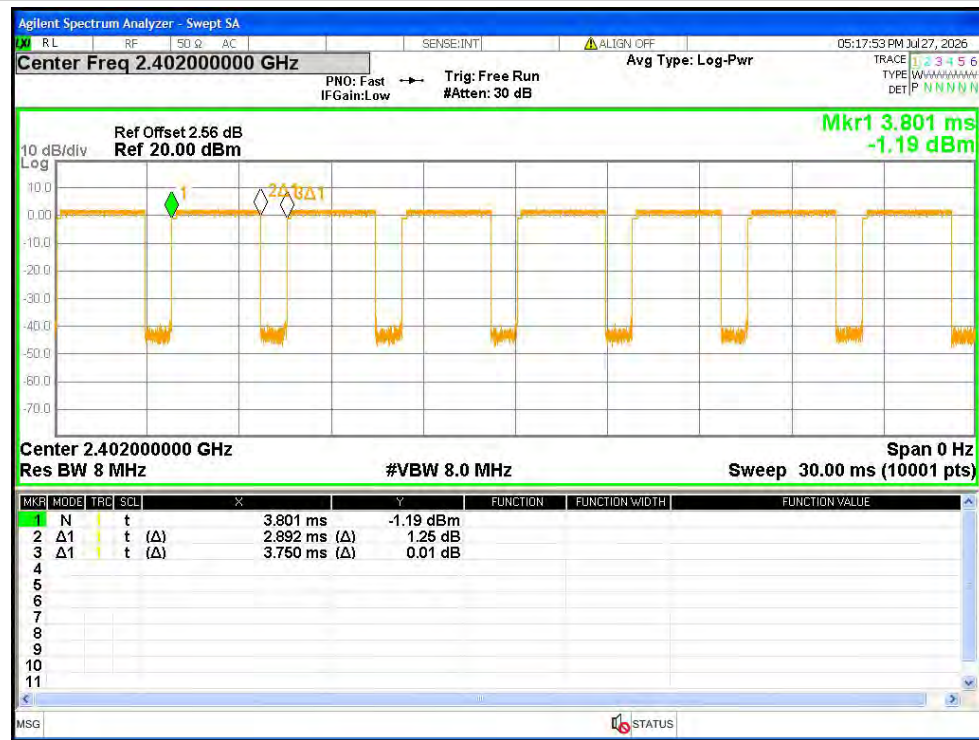
Duty Cycle NVNT 2-DH5 2441MHz



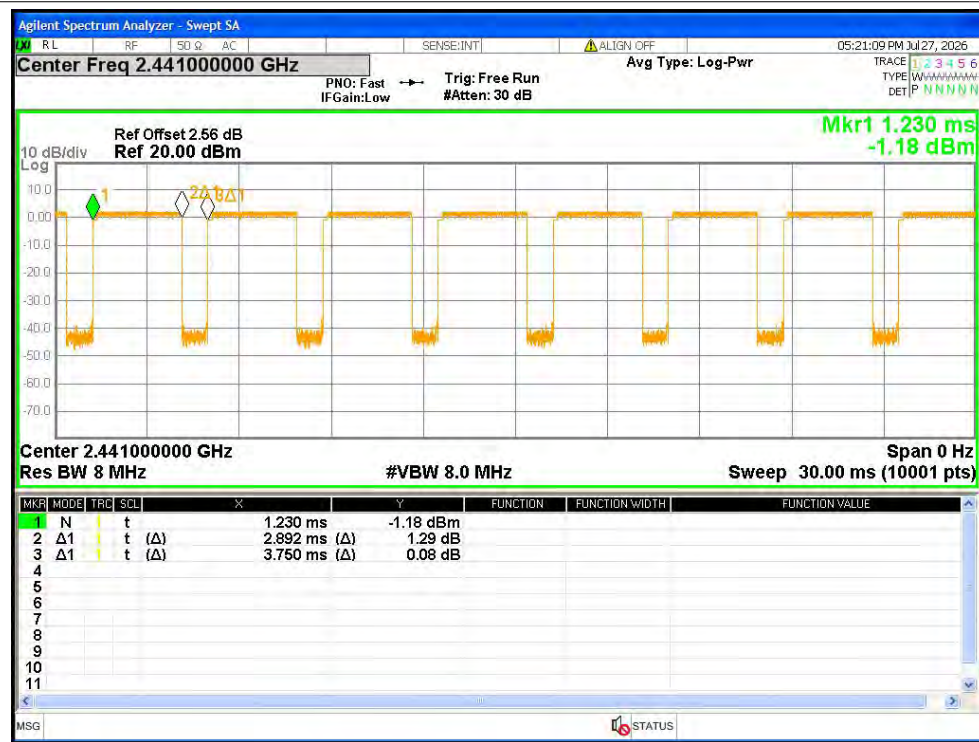
Duty Cycle NVNT 2-DH5 2480MHz



Duty Cycle NVNT 3-DH5 2402MHz



Duty Cycle NVNT 3-DH5 2441MHz



Duty Cycle NVNT 3-DH5 2480MHz



Maximum Peak Conducted Output Power

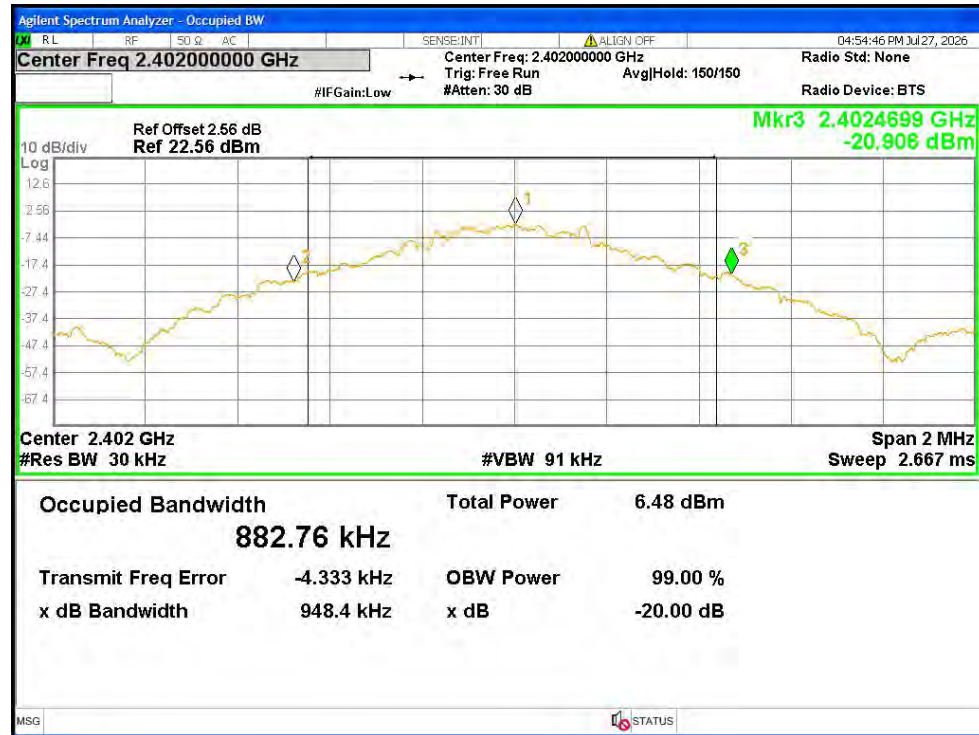
Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	0.03	≤ 30	Pass
1-DH5	2441	0.12	≤ 30	Pass
1-DH5	2480	0.43	≤ 30	Pass
2-DH5	2402	1.07	≤ 21	Pass
2-DH5	2441	1.09	≤ 21	Pass
2-DH5	2480	1.4	≤ 21	Pass
3-DH5	2402	1.31	≤ 21	Pass
3-DH5	2441	1.35	≤ 21	Pass
3-DH5	2480	1.63	≤ 21	Pass

-20dB Bandwidth

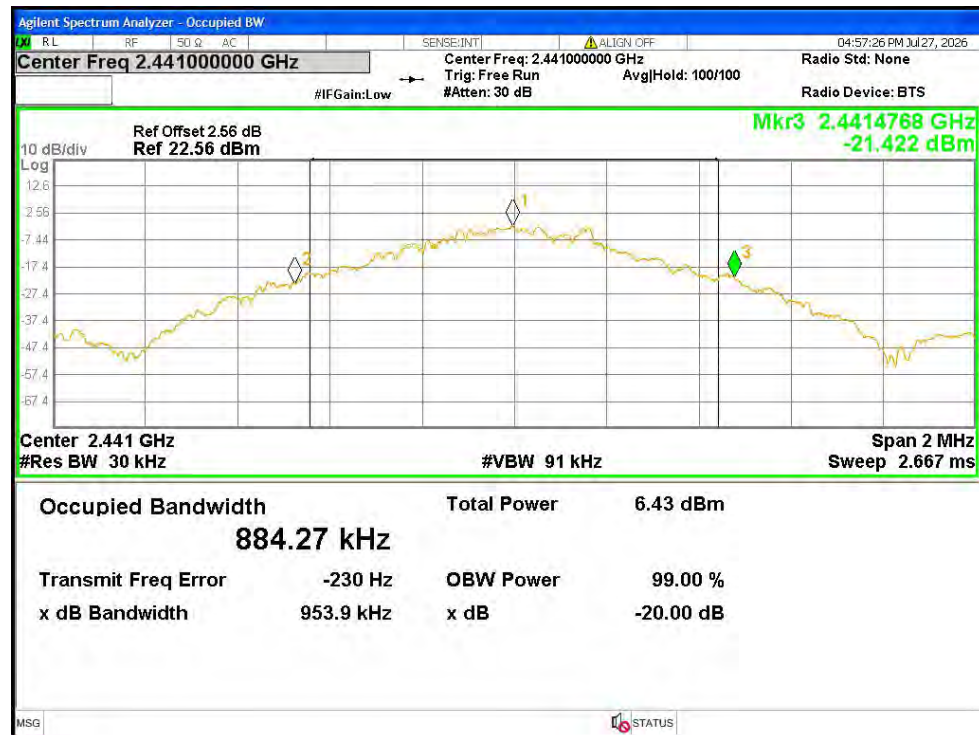
Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
1-DH5	2402	0.9484	Pass
1-DH5	2441	0.9539	Pass
1-DH5	2480	0.9619	Pass
2-DH5	2402	1.436	Pass
2-DH5	2441	1.434	Pass
2-DH5	2480	1.491	Pass
3-DH5	2402	1.489	Pass
3-DH5	2441	1.479	Pass
3-DH5	2480	1.515	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz



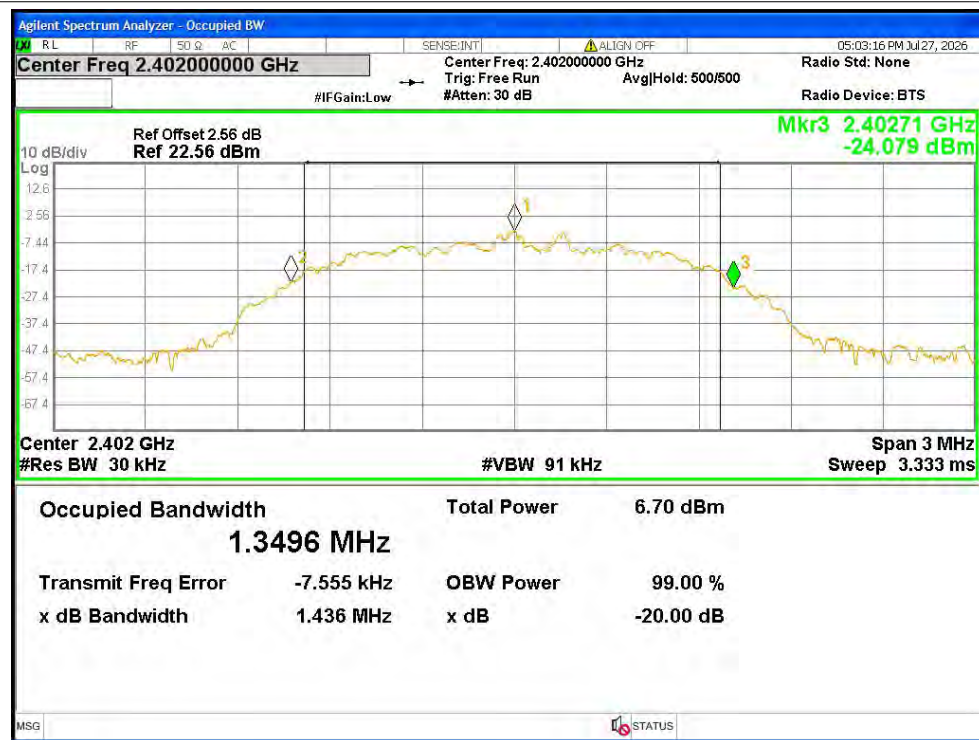
-20dB Bandwidth NVNT 1-DH5 2441MHz



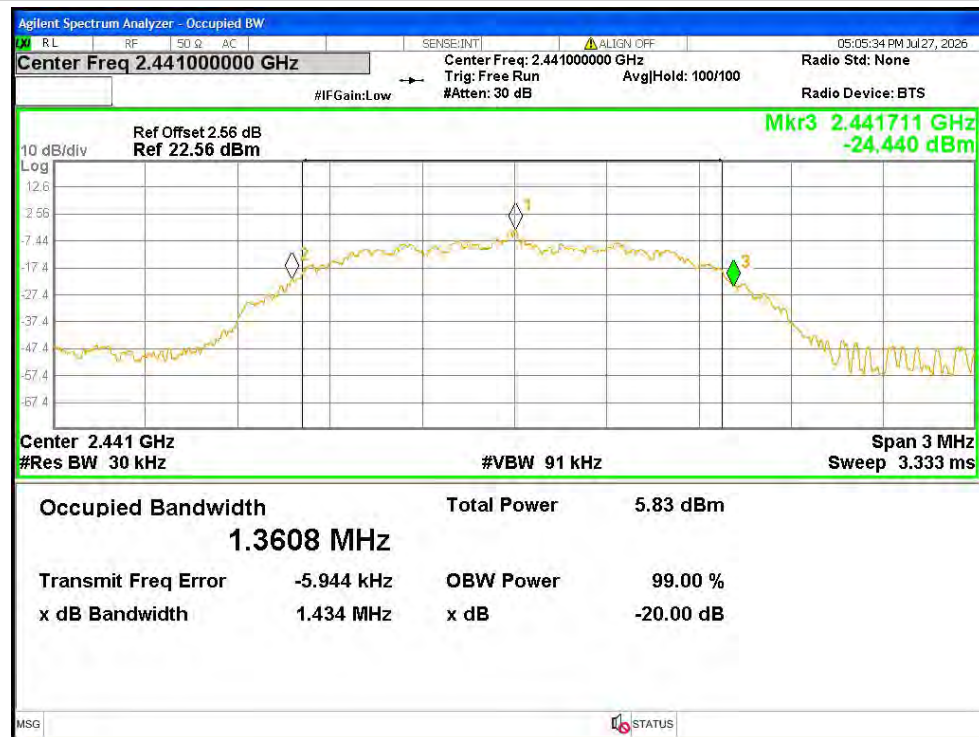
-20dB Bandwidth NVNT 1-DH5 2480MHz



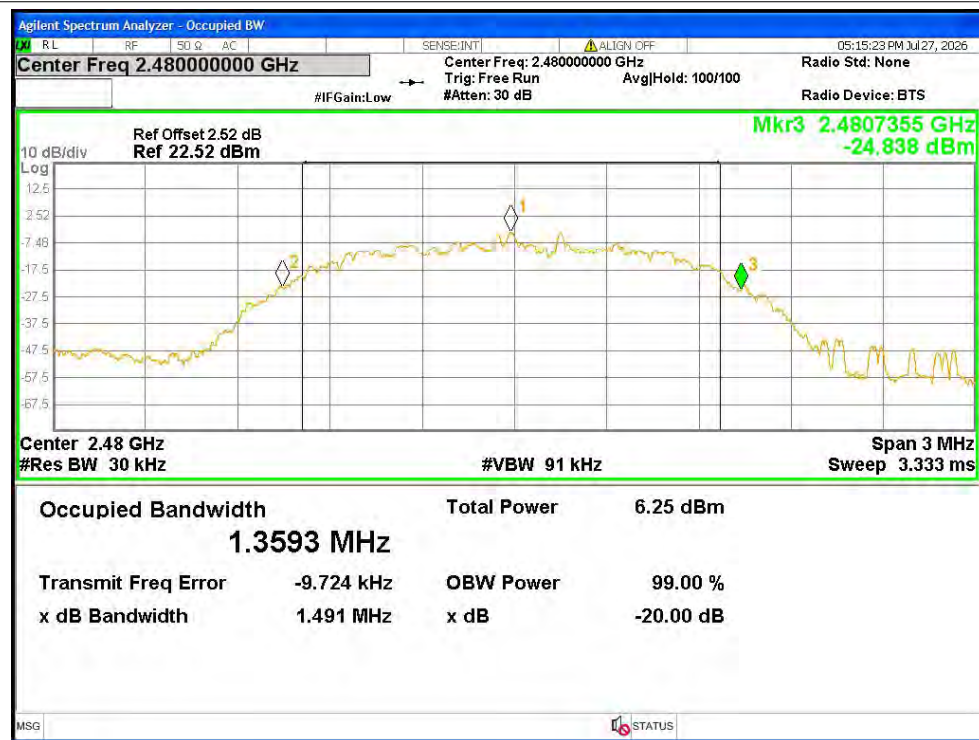
-20dB Bandwidth NVNT 2-DH5 2402MHz



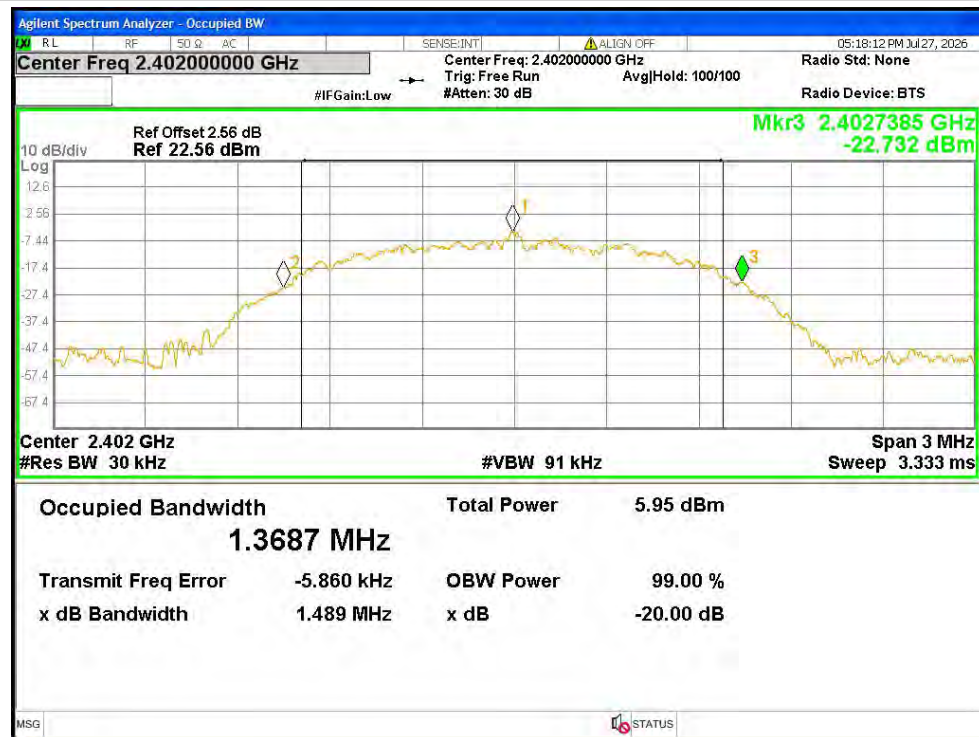
-20dB Bandwidth NVNT 2-DH5 2441MHz



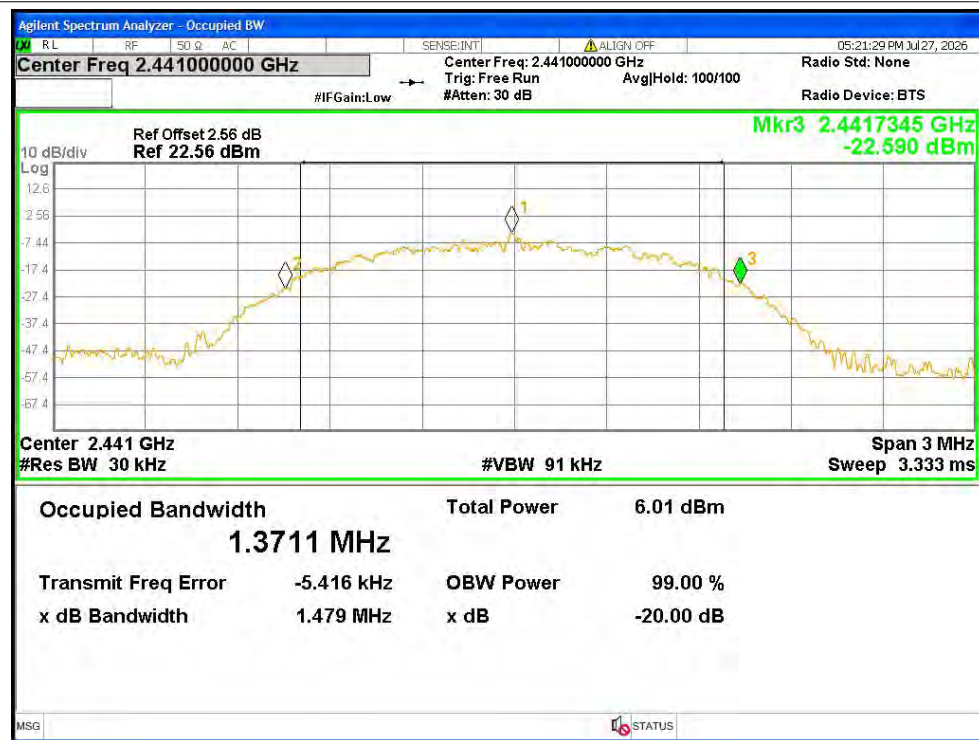
-20dB Bandwidth NVNT 2-DH5 2480MHz



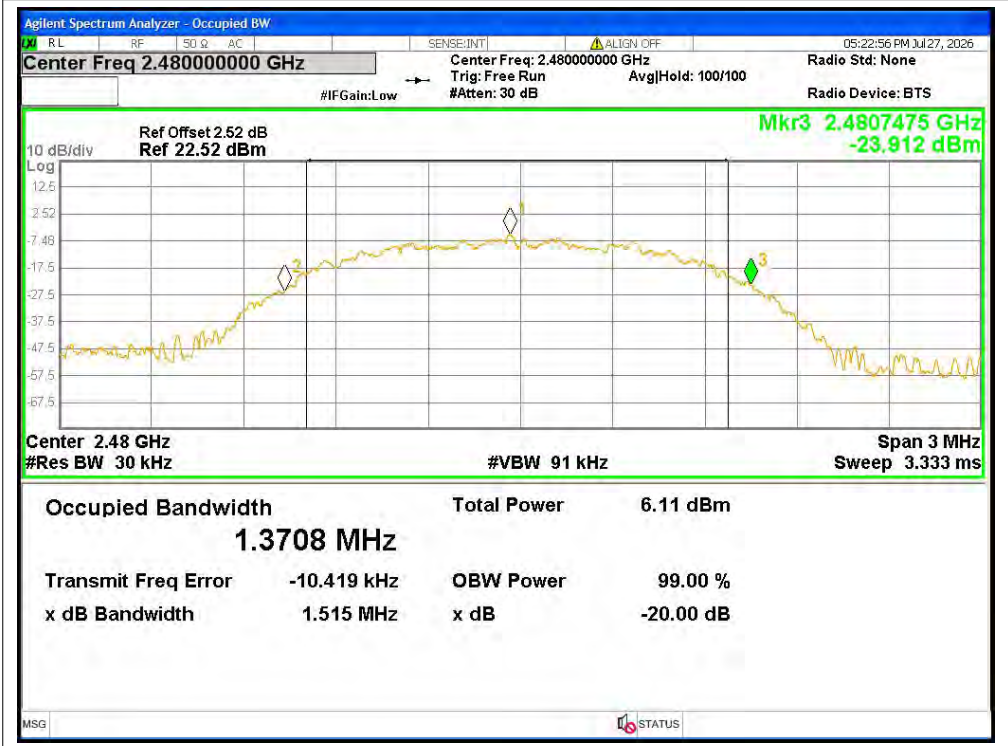
-20dB Bandwidth NVNT 3-DH5 2402MHz



-20dB Bandwidth NVNT 3-DH5 2441MHz



-20dB Bandwidth NVNT 3-DH5 2480MHz

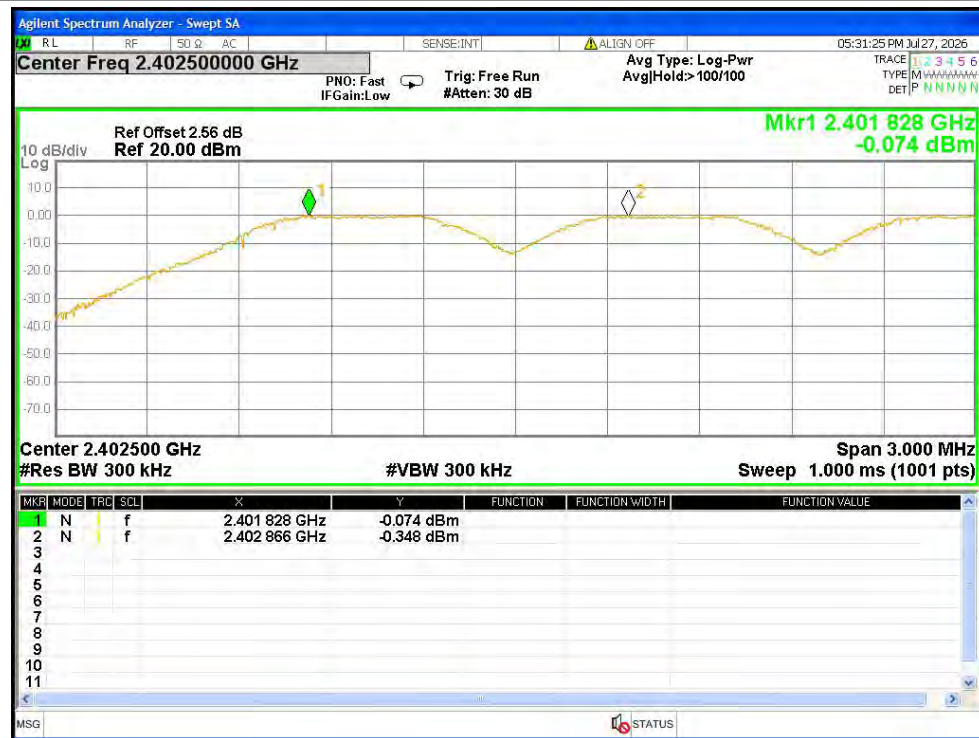


Carrier Frequencies Separation

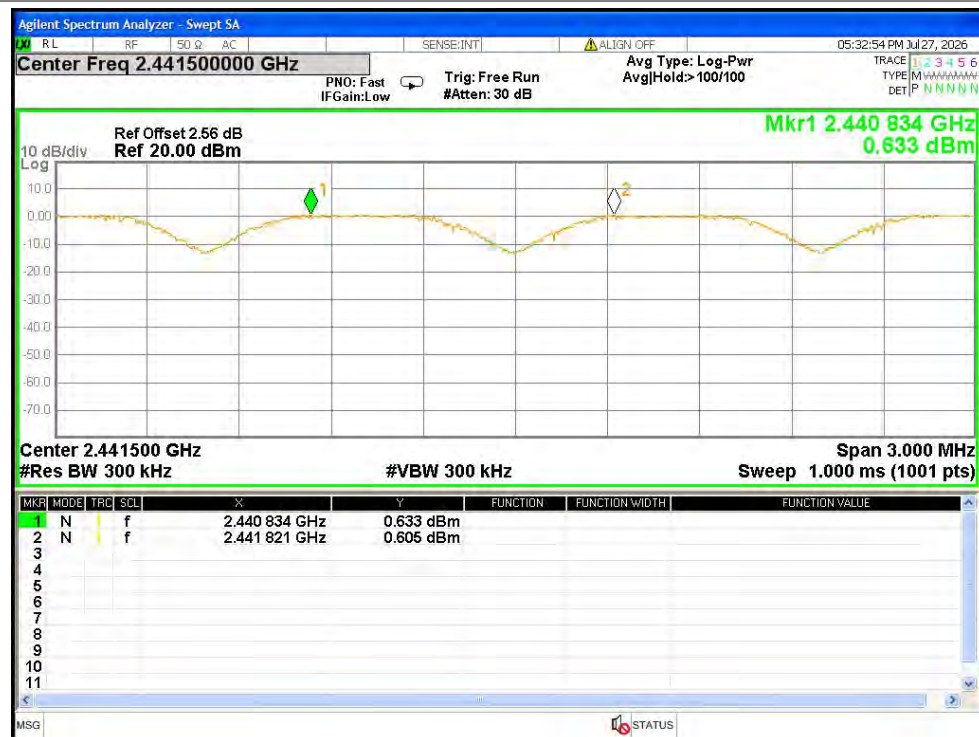
Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2401.828	2402.866	1.038	≥ 0.948	Pass
1-DH5	2440.834	2441.821	0.987	≥ 0.954	Pass
1-DH5	2478.831	2479.83	0.999	≥ 0.962	Pass
2-DH5	2401.864	2402.983	1.119	≥ 0.957	Pass
2-DH5	2440.846	2441.872	1.026	≥ 0.956	Pass
2-DH5	2478.876	2480.139	1.263	≥ 0.994	Pass
3-DH5	2401.768	2403.166	1.398	≥ 0.993	Pass
3-DH5	2440.87	2442.127	1.257	≥ 0.986	Pass
3-DH5	2478.954	2480.112	1.158	≥ 1.01	Pass

Test Graphs

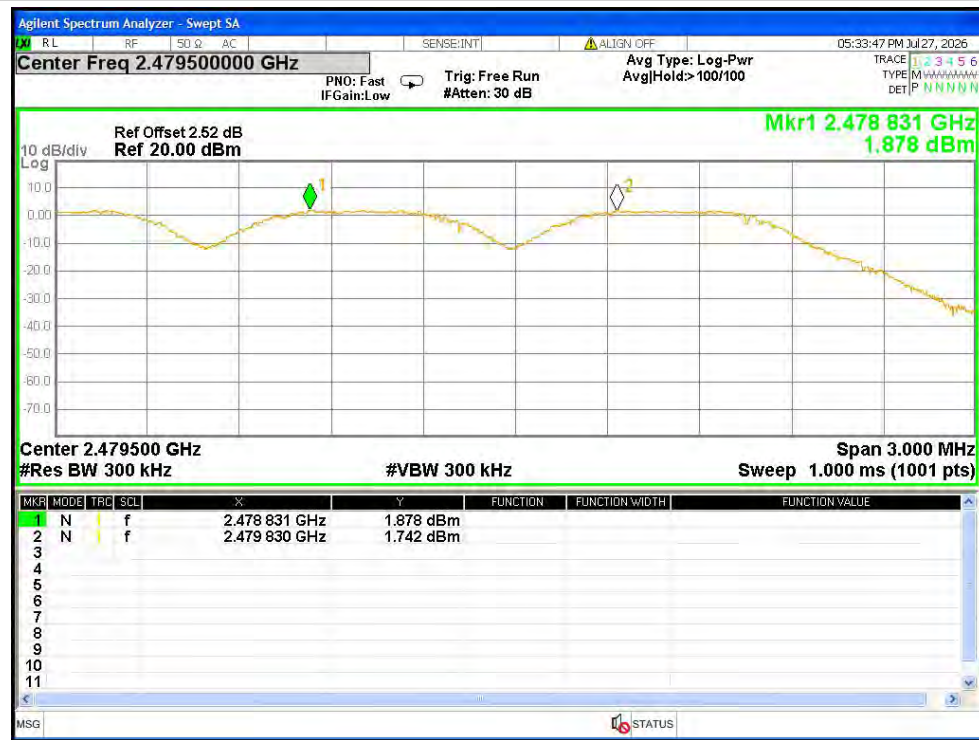
CFS NVNT 1-DH5 2402MHz



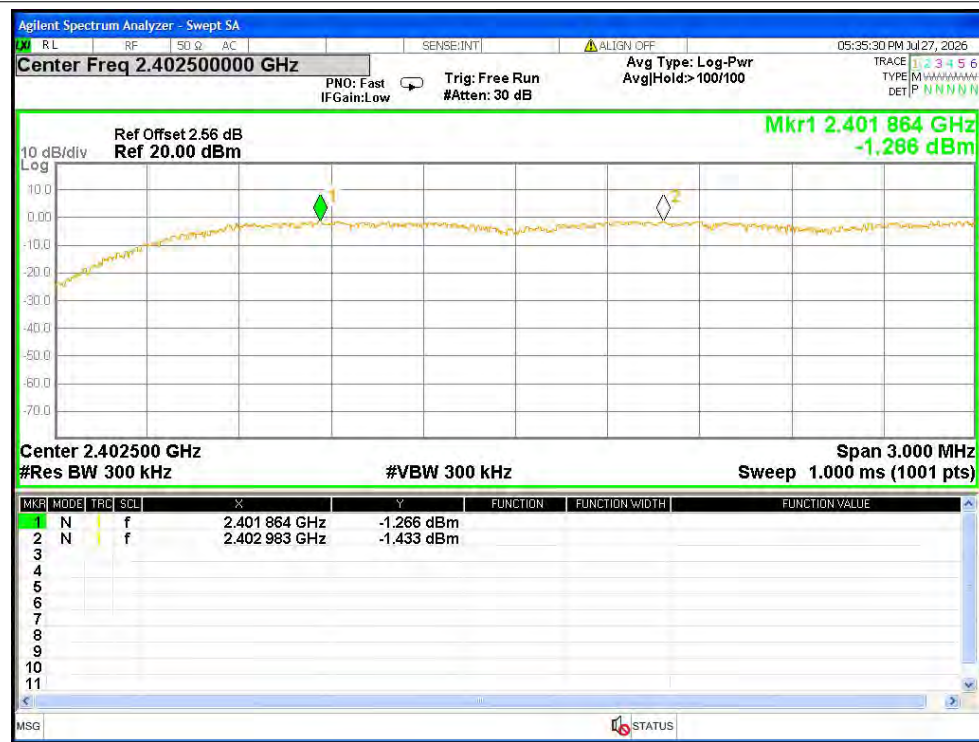
CFS NVNT 1-DH5 2441MHz



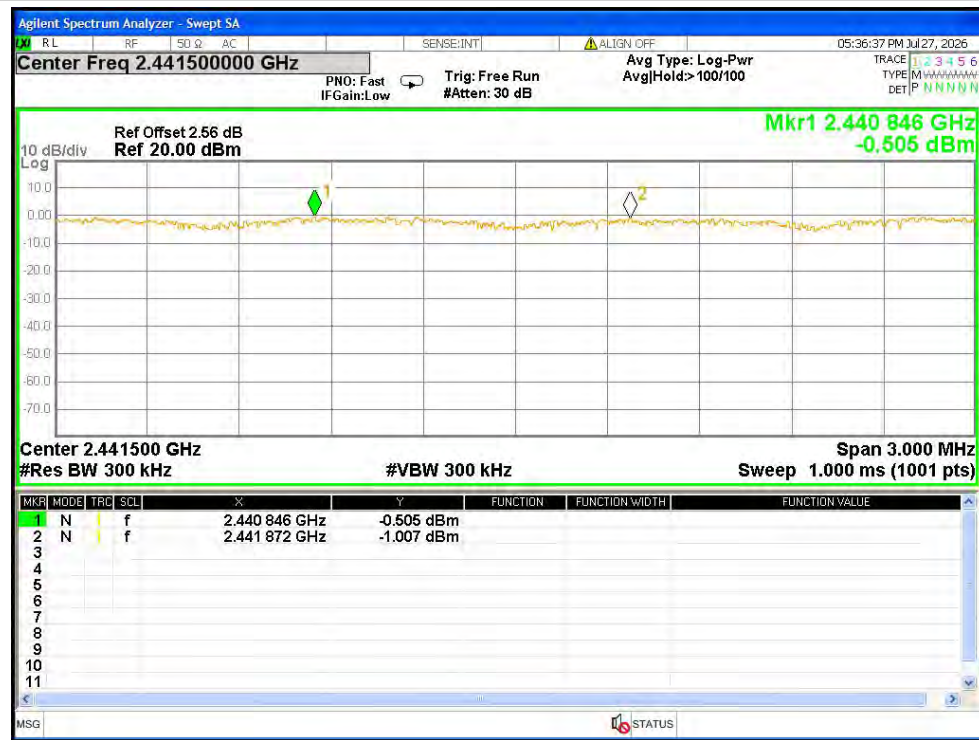
CFS NVNT 1-DH5 2480MHz



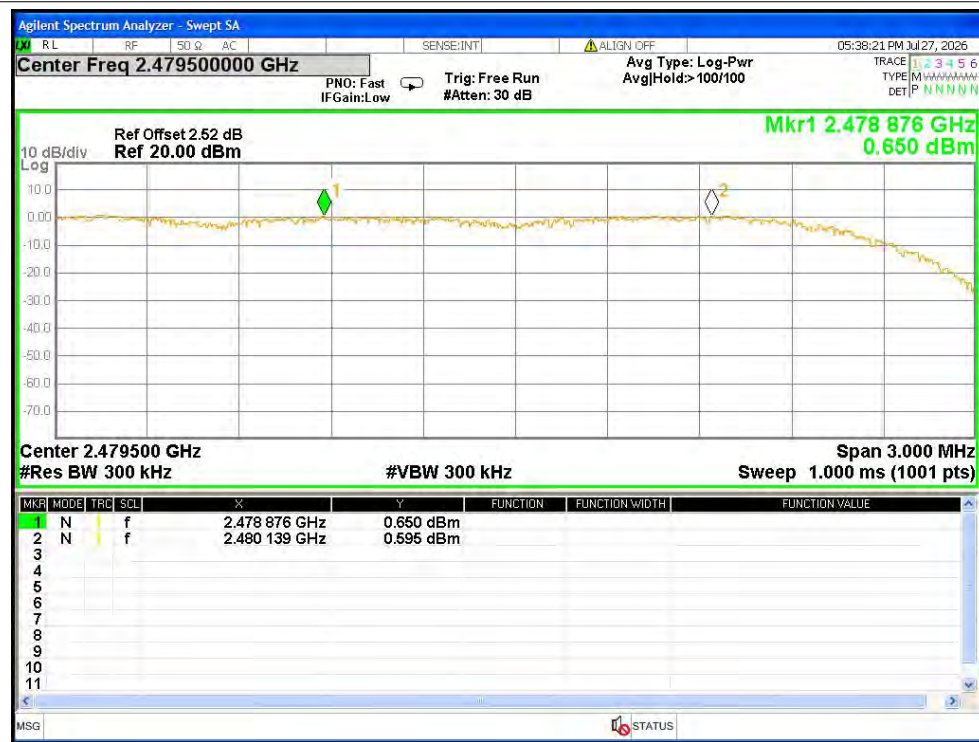
CFS NVNT 2-DH5 2402MHz



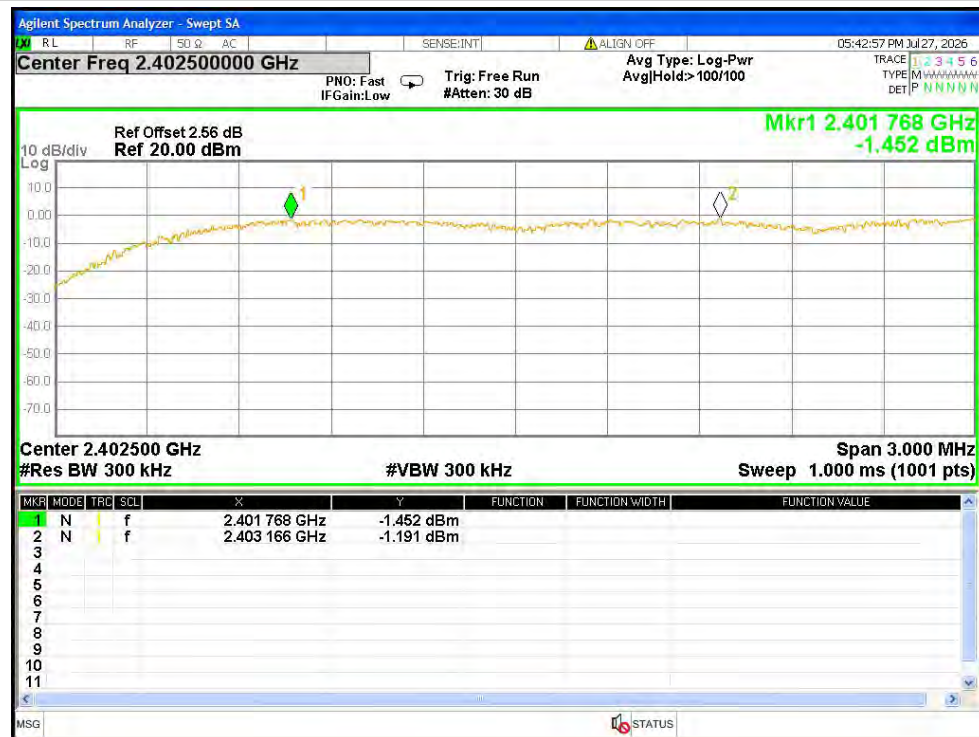
CFS NVNT 2-DH5 2441MHz



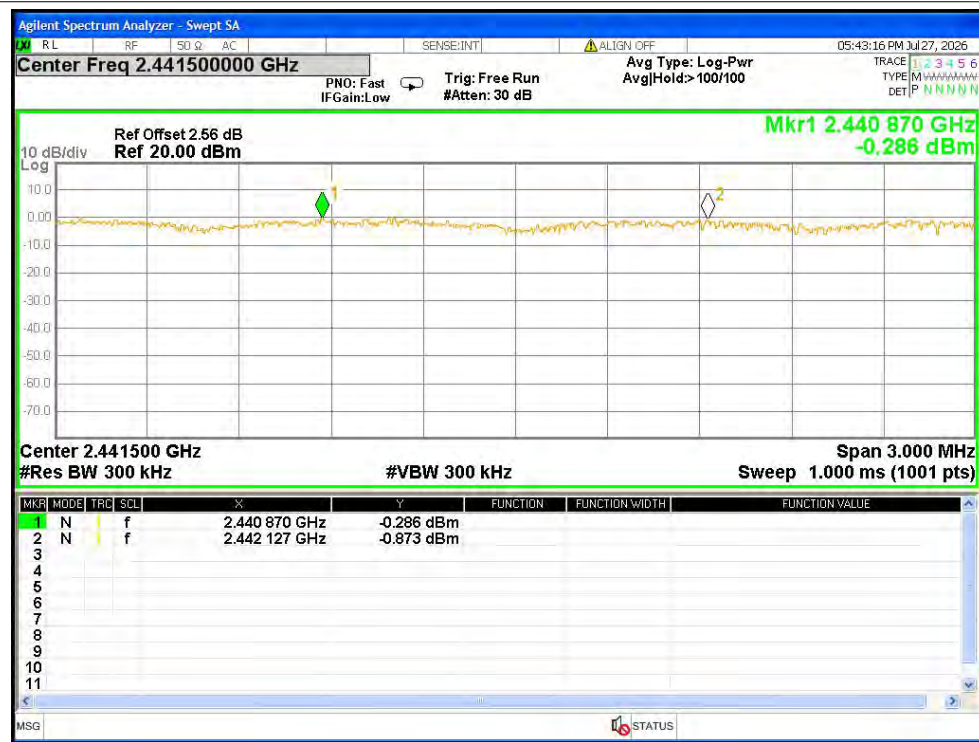
CFS NVNT 2-DH5 2480MHz



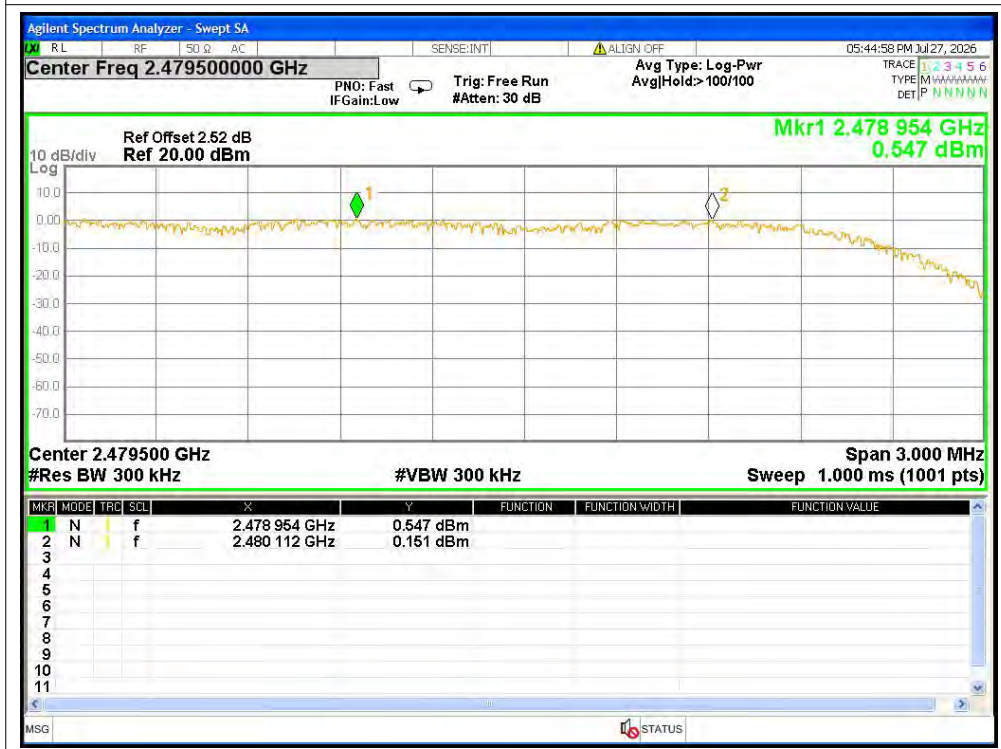
CFS NVNT 3-DH5 2402MHz



CFS NVNT 3-DH5 2441MHz



CFS NVNT 3-DH5 2480MHz

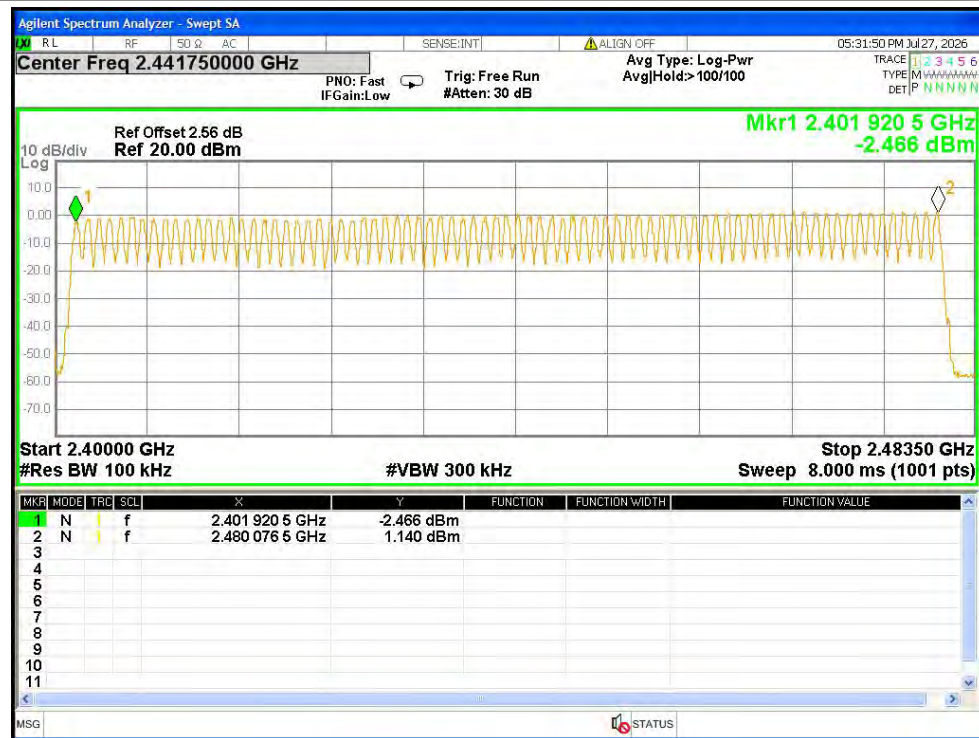


Number of Hopping Channel

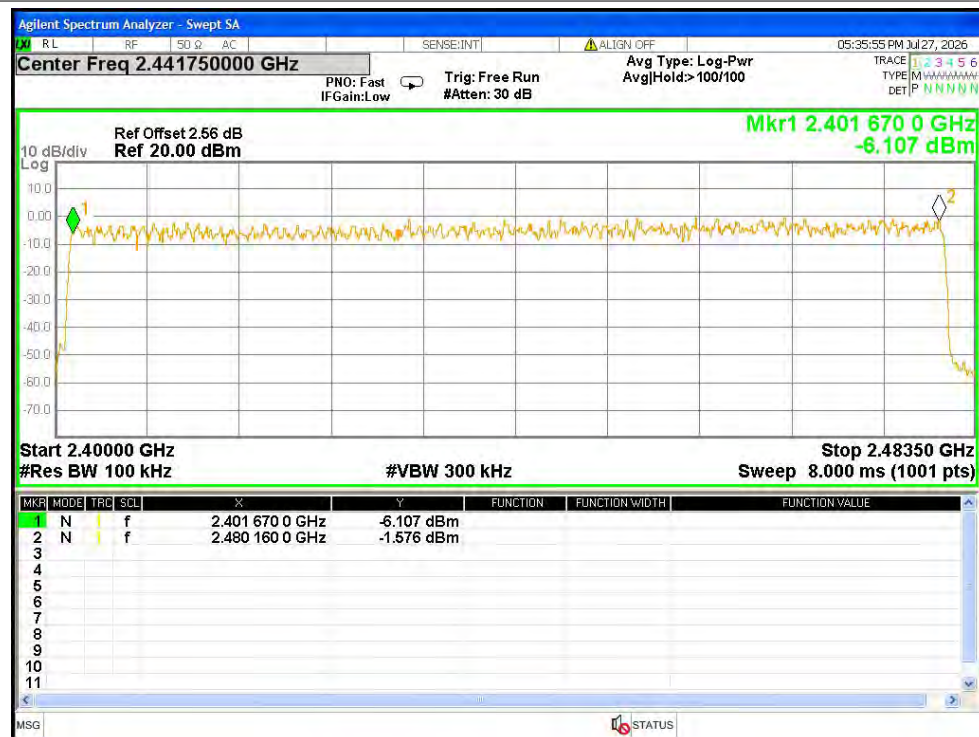
Mode	Hopping Number	Limit	Verdict
1-DH5	79	≥ 15	Pass
2-DH5	79	≥ 15	Pass
3-DH5	79	≥ 15	Pass

Test Graphs

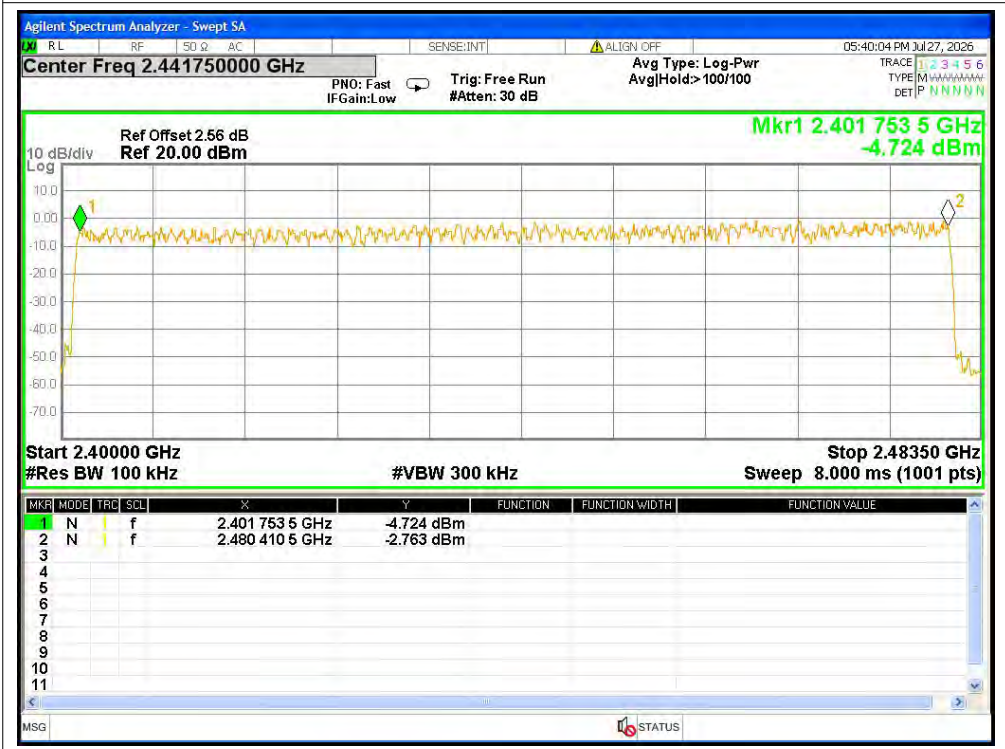
Hopping No. NVNT 1-DH5 Hopping



Hopping No. NVNT 2-DH5 Hopping



Hopping No. NVNT 3-DH5 Hopping



Band Edge

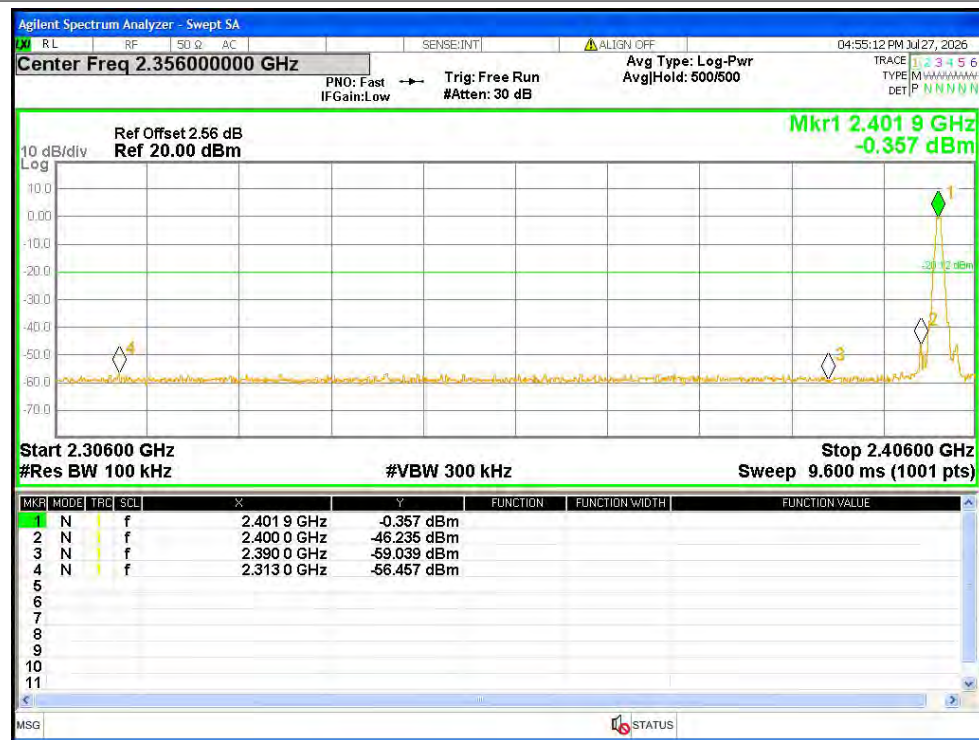
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	No-Hopping	-56.33	<=-20	Pass
1-DH5	2480	No-Hopping	-44.01	<=-20	Pass
2-DH5	2402	No-Hopping	-55.7	<=-20	Pass
2-DH5	2480	No-Hopping	-53.99	<=-20	Pass
3-DH5	2402	No-Hopping	-55.44	<=-20	Pass
3-DH5	2480	No-Hopping	-52.26	<=-20	Pass

Test Graphs

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



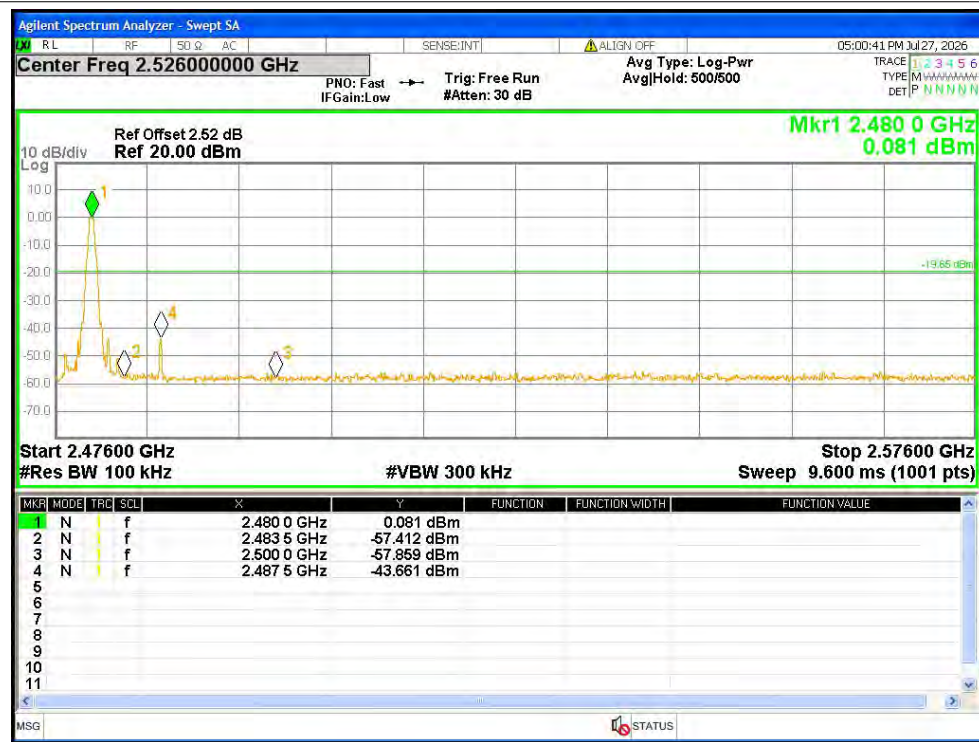
Band Edge NVNT 1-DH5 2402MHz No-Hopping Emission



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



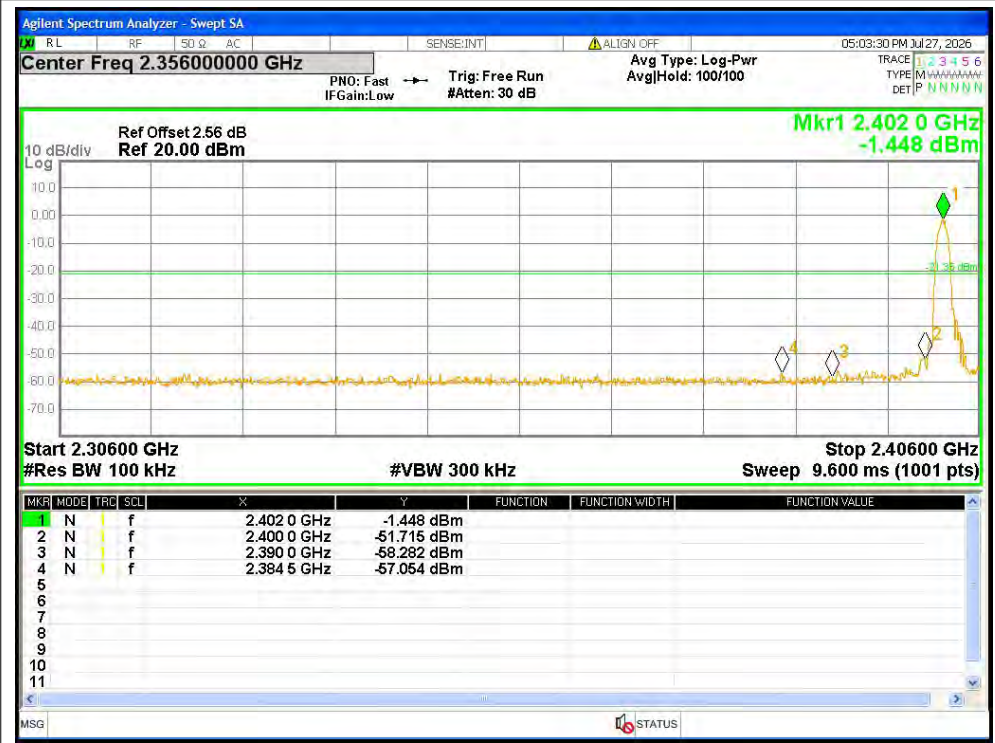
Band Edge NVNT 1-DH5 2480MHz No-Hopping Emission



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



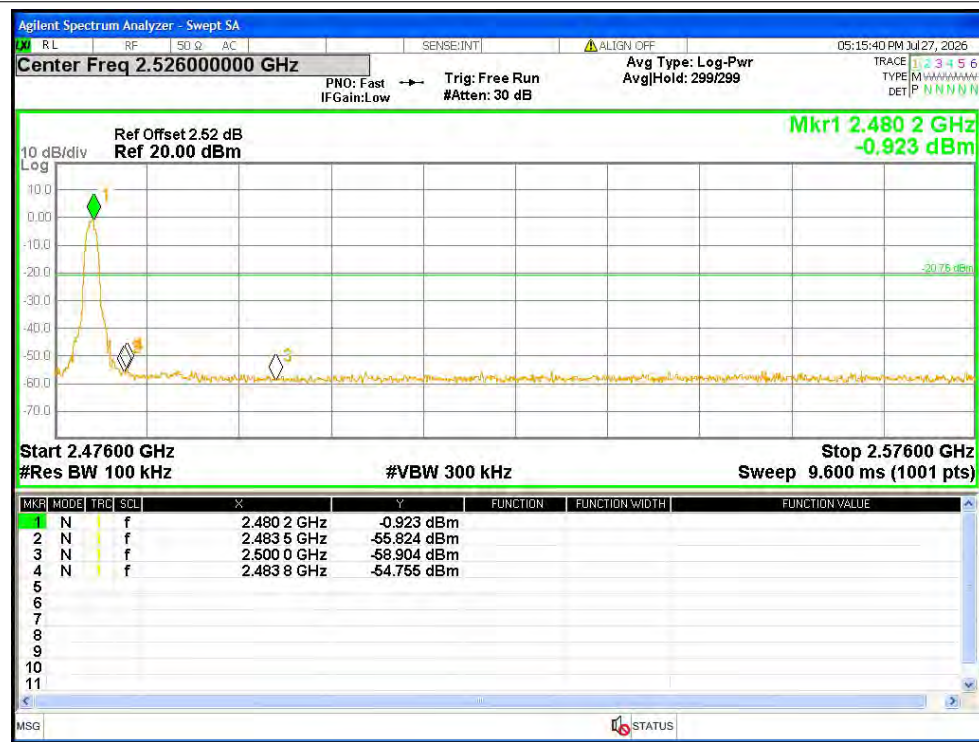
Band Edge NVNT 2-DH5 2402MHz No-Hopping Emission



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



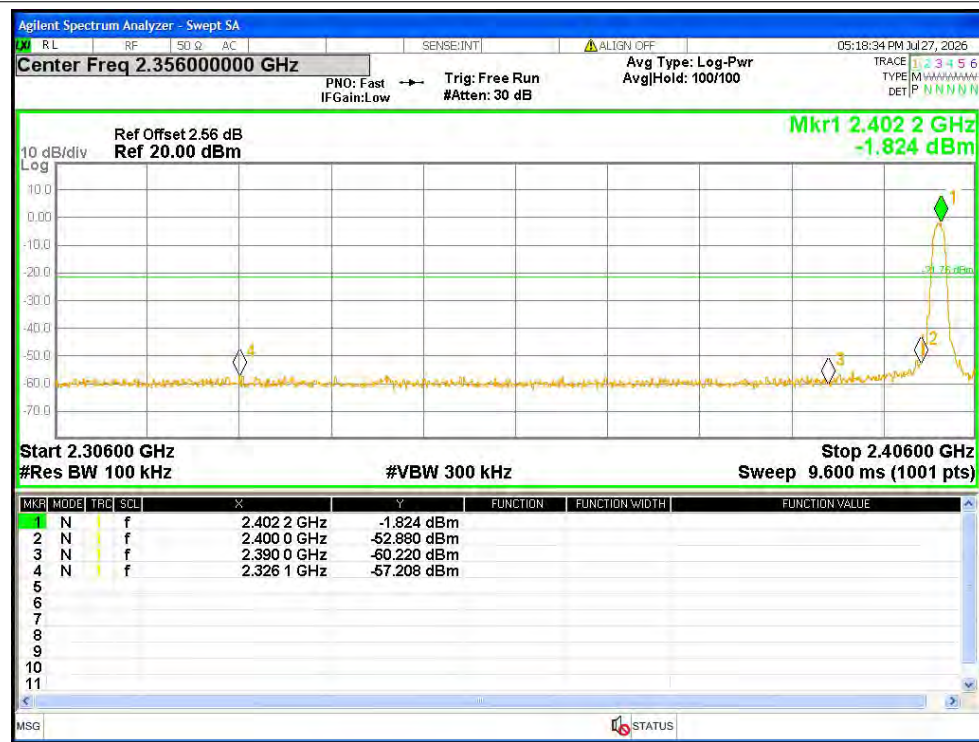
Band Edge NVNT 2-DH5 2480MHz No-Hopping Emission



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



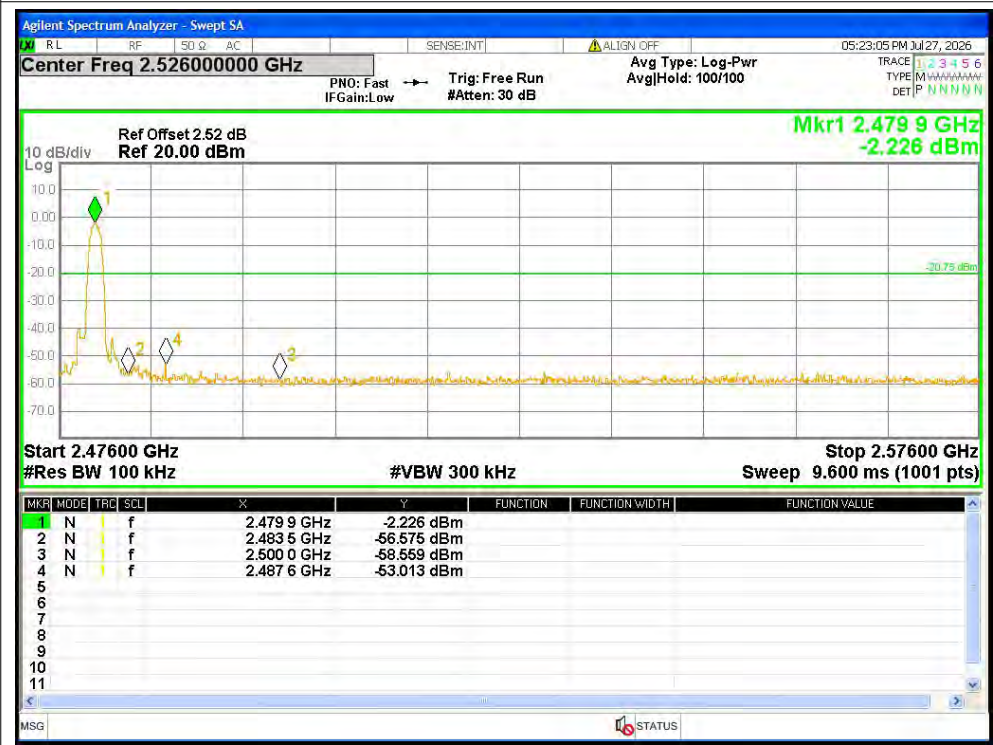
Band Edge NVNT 3-DH5 2402MHz No-Hopping Emission



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



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



Band Edge(Hopping)

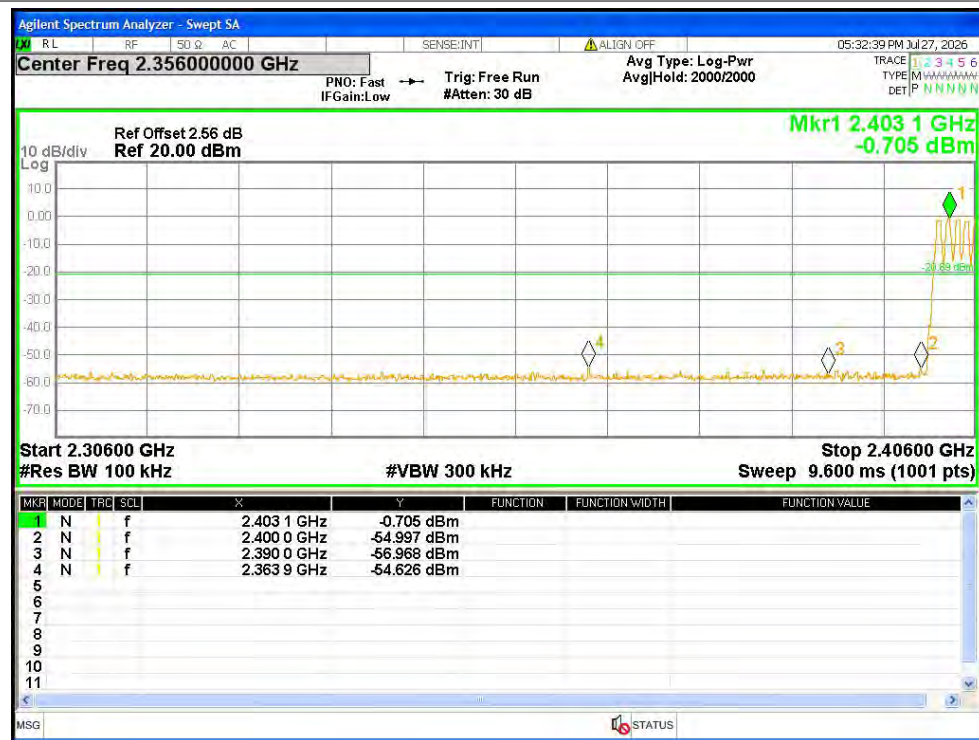
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	Hopping	-53.74	<=-20	Pass
1-DH5	2480	Hopping	-50.88	<=-20	Pass
2-DH5	2402	Hopping	-52.43	<=-20	Pass
2-DH5	2480	Hopping	-53.55	<=-20	Pass
3-DH5	2402	Hopping	-52.39	<=-20	Pass
3-DH5	2480	Hopping	-44.27	<=-20	Pass

Test Graphs

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



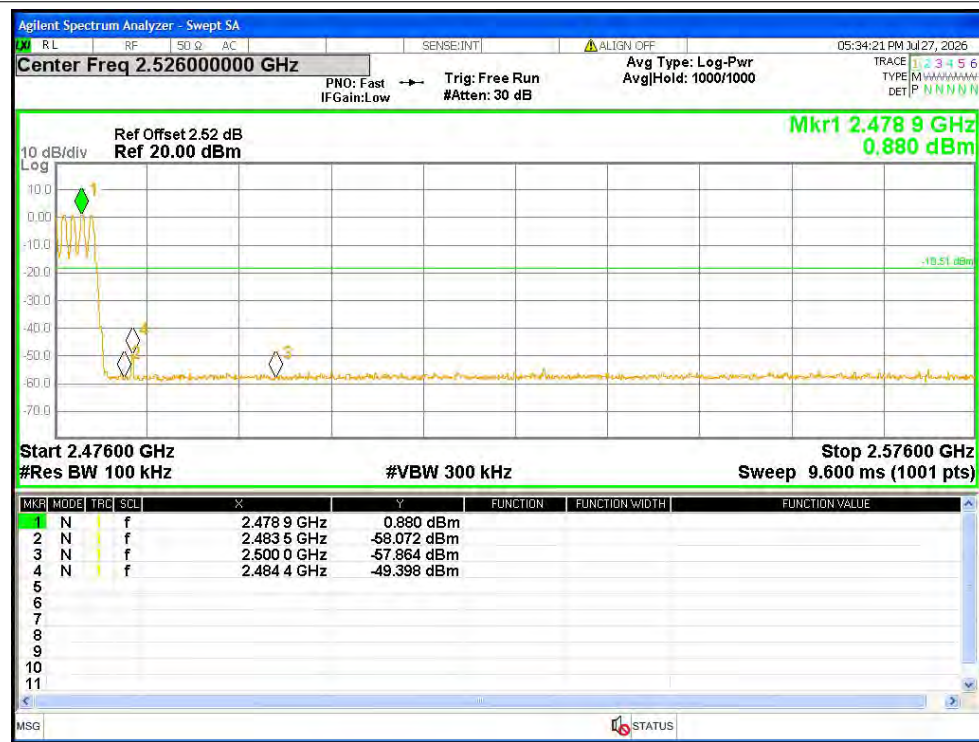
Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Emission



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



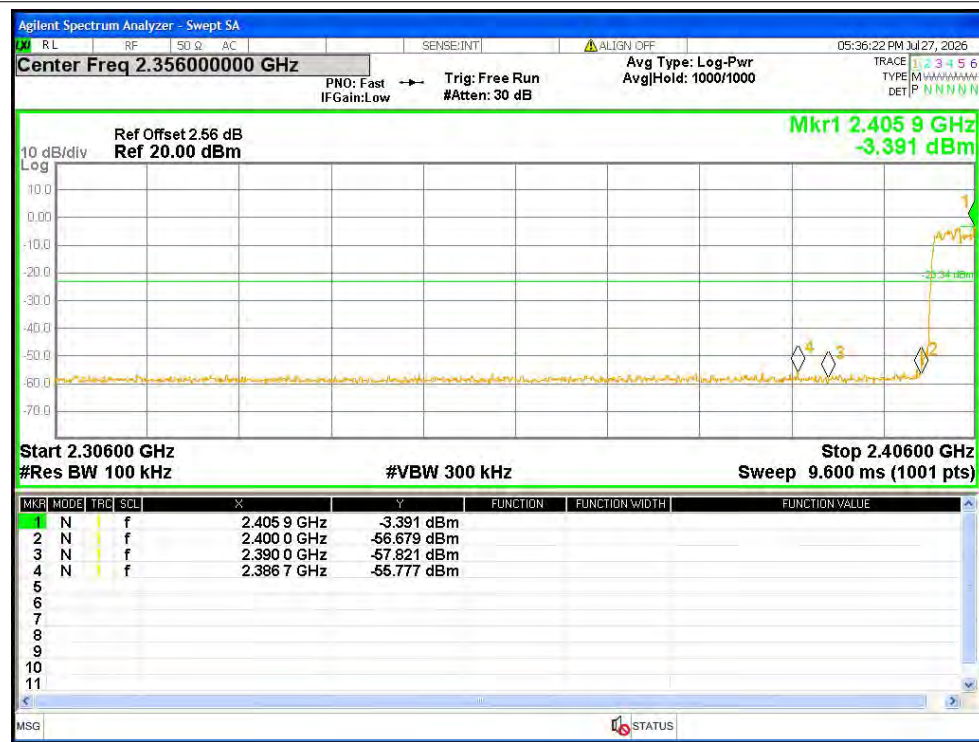
Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Emission



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



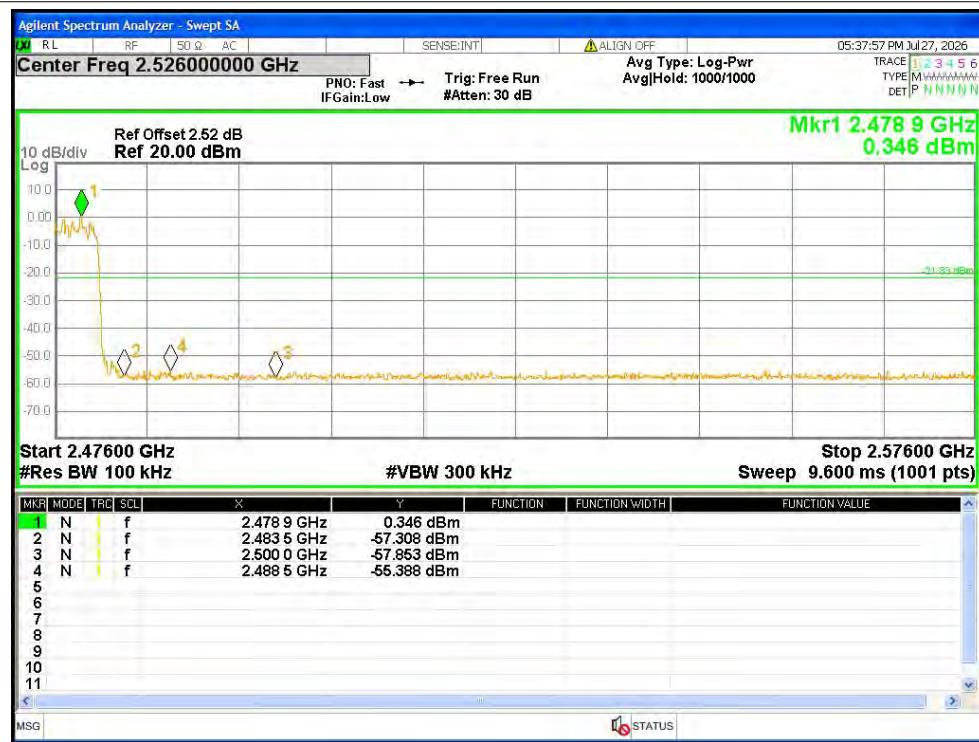
Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Emission



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



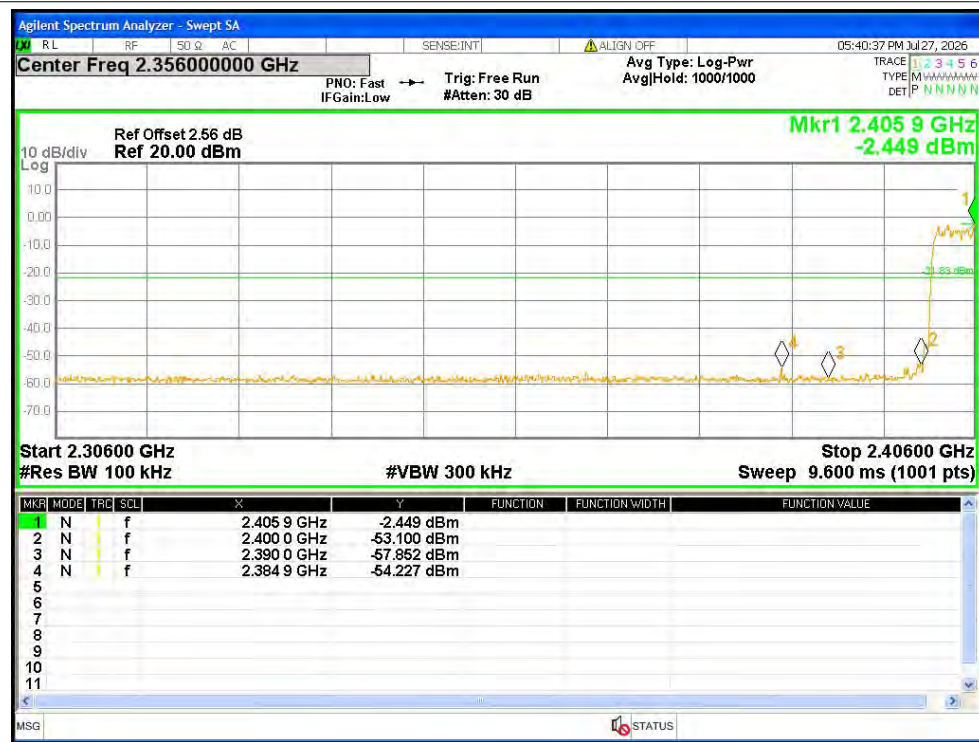
Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Emission



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



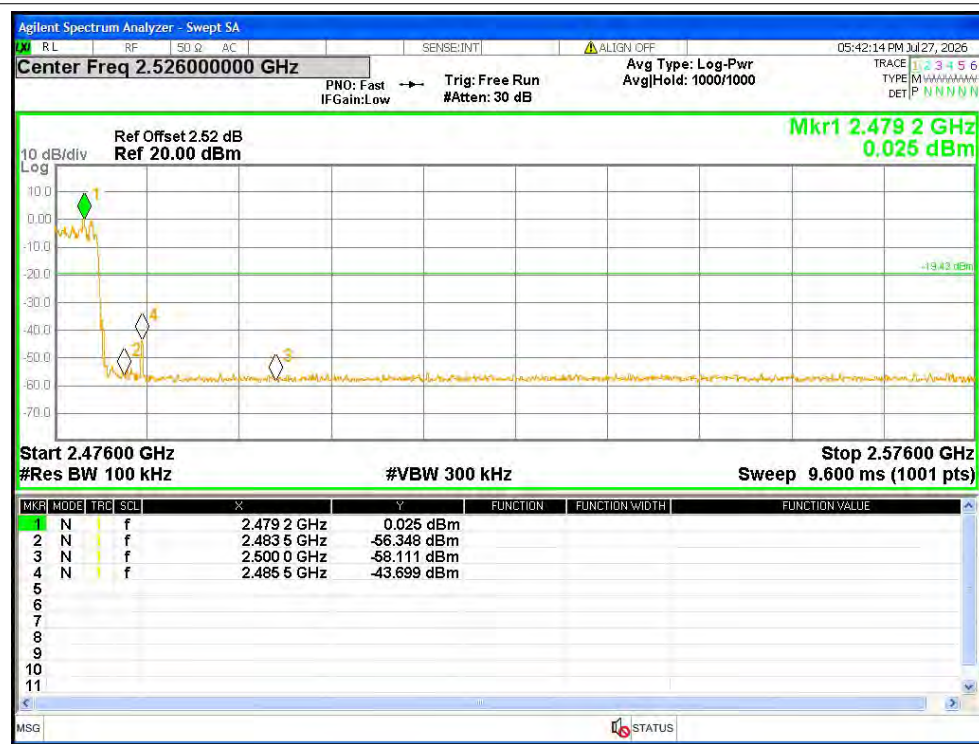
Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Emission



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



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



Conducted RF Spurious Emission

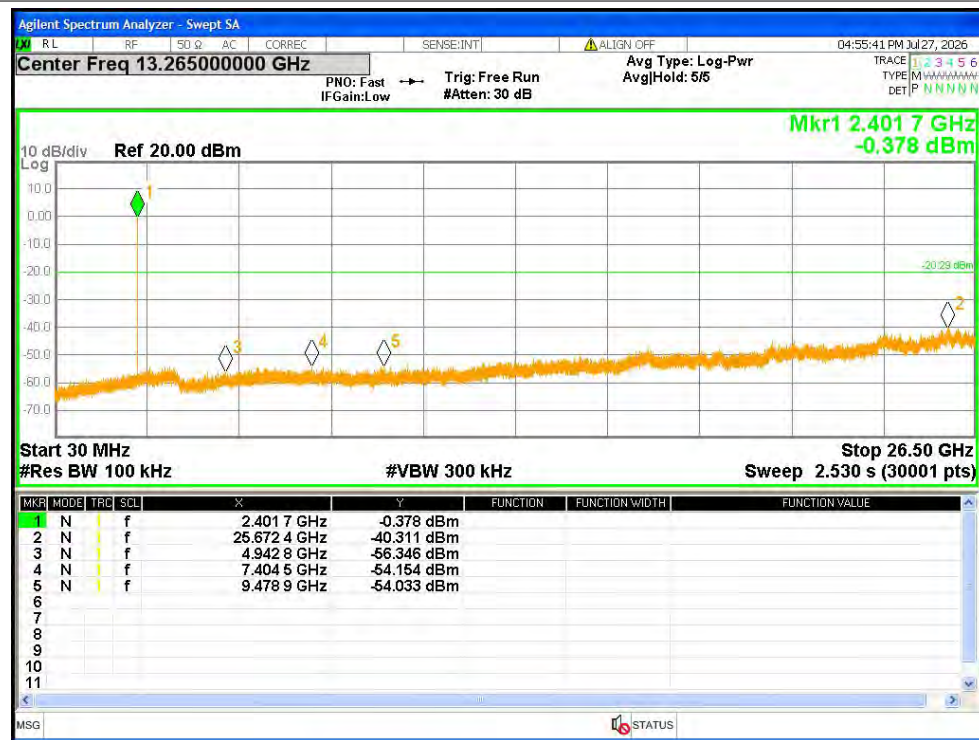
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	-40.02	<=-20	Pass
1-DH5	2441	-39.93	<=-20	Pass
1-DH5	2480	-39.9	<=-20	Pass
2-DH5	2402	-39.3	<=-20	Pass
2-DH5	2441	-39.23	<=-20	Pass
2-DH5	2480	-39.21	<=-20	Pass
3-DH5	2402	-38.81	<=-20	Pass
3-DH5	2441	-39.21	<=-20	Pass
3-DH5	2480	-39.09	<=-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ref



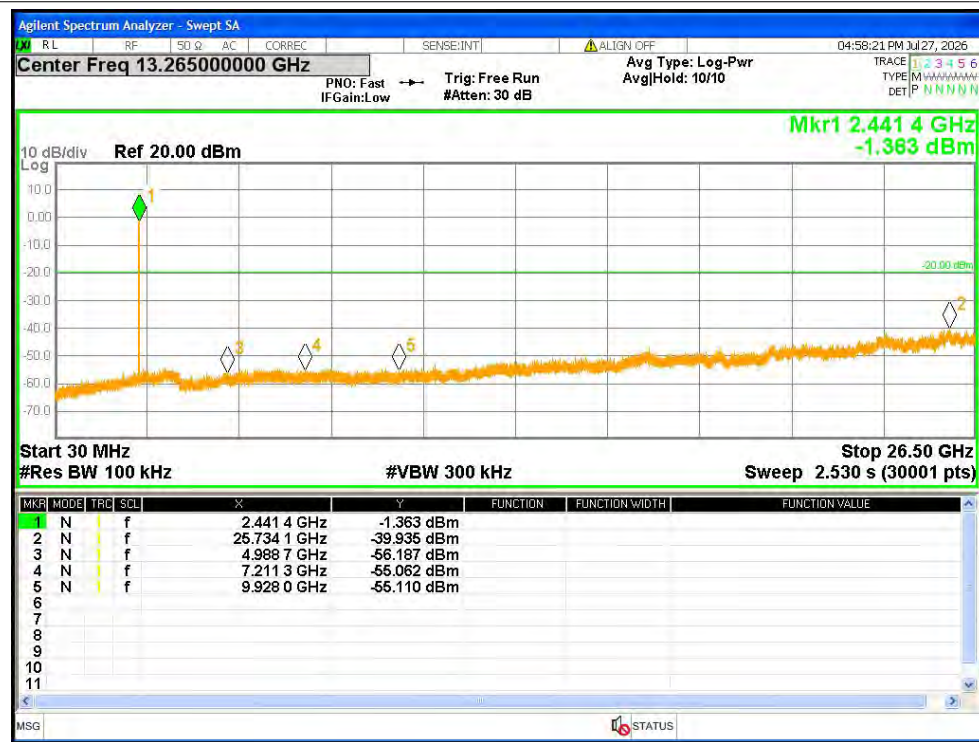
Tx. Spurious NVNT 1-DH5 2402MHz Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ref



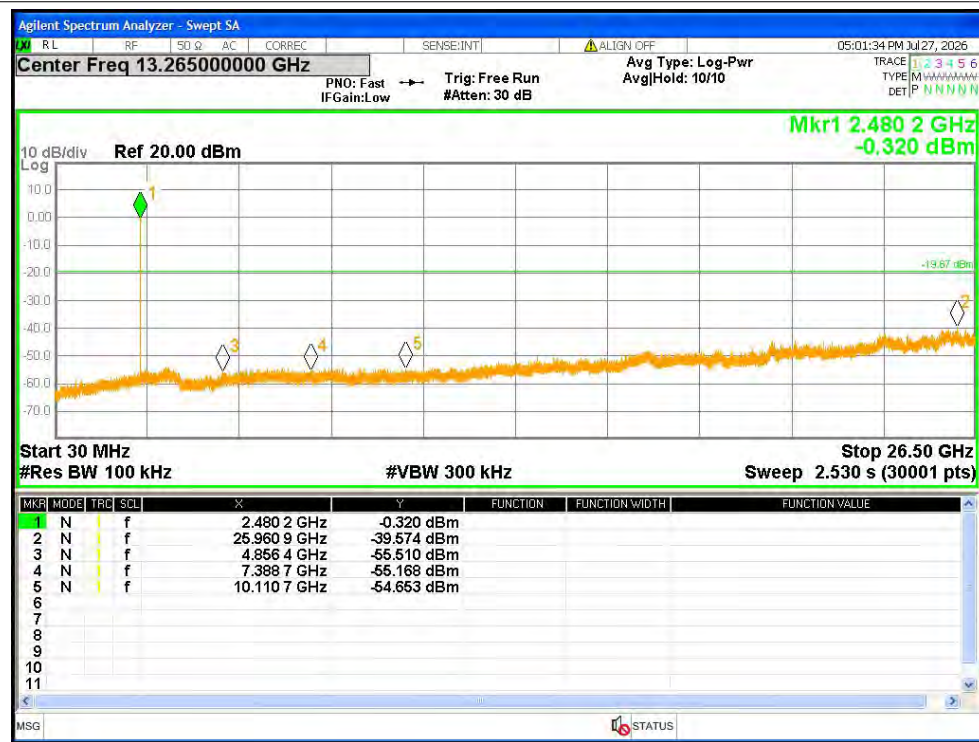
Tx. Spurious NVNT 1-DH5 2441MHz Emission



Tx. Spurious NVNT 1-DH5 2480MHz Ref



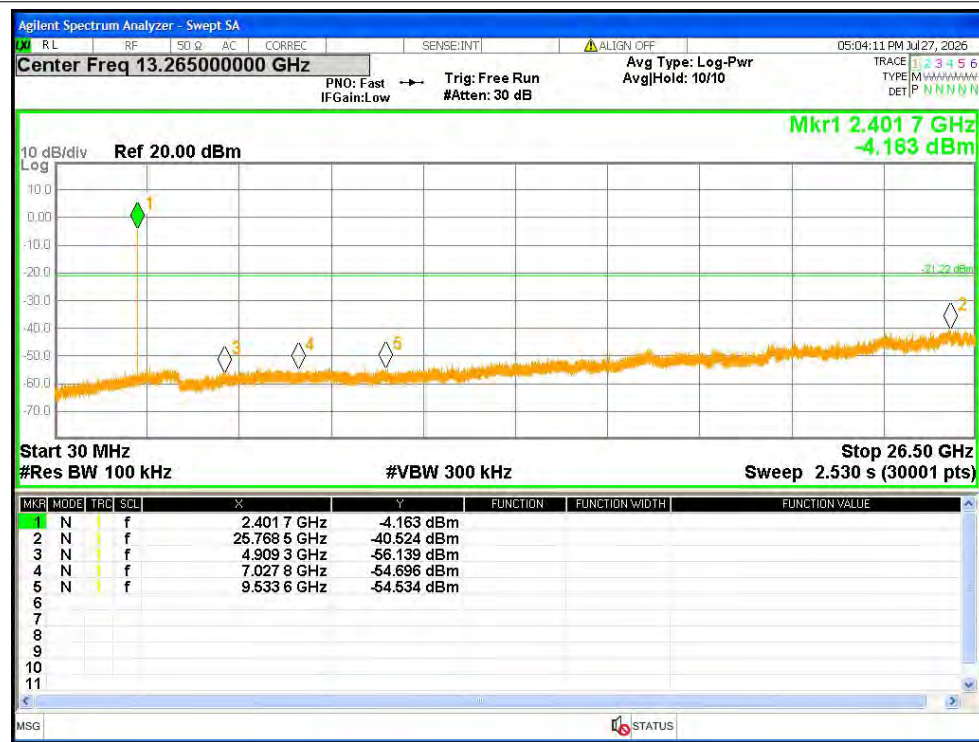
Tx. Spurious NVNT 1-DH5 2480MHz Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ref



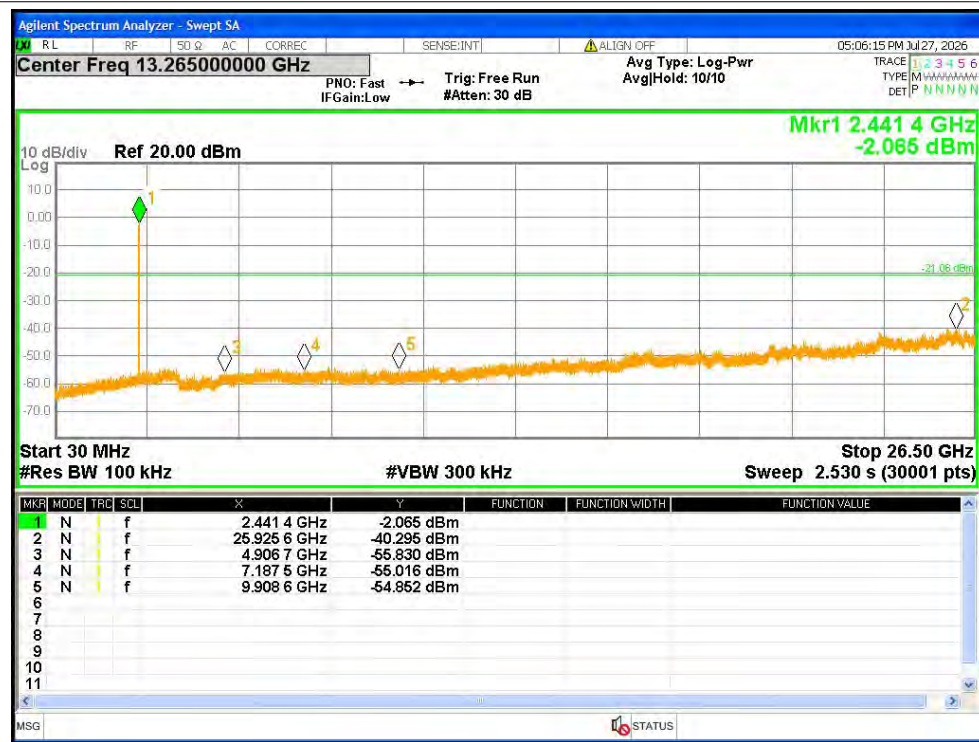
Tx. Spurious NVNT 2-DH5 2402MHz Emission



Tx. Spurious NVNT 2-DH5 2441MHz Ref



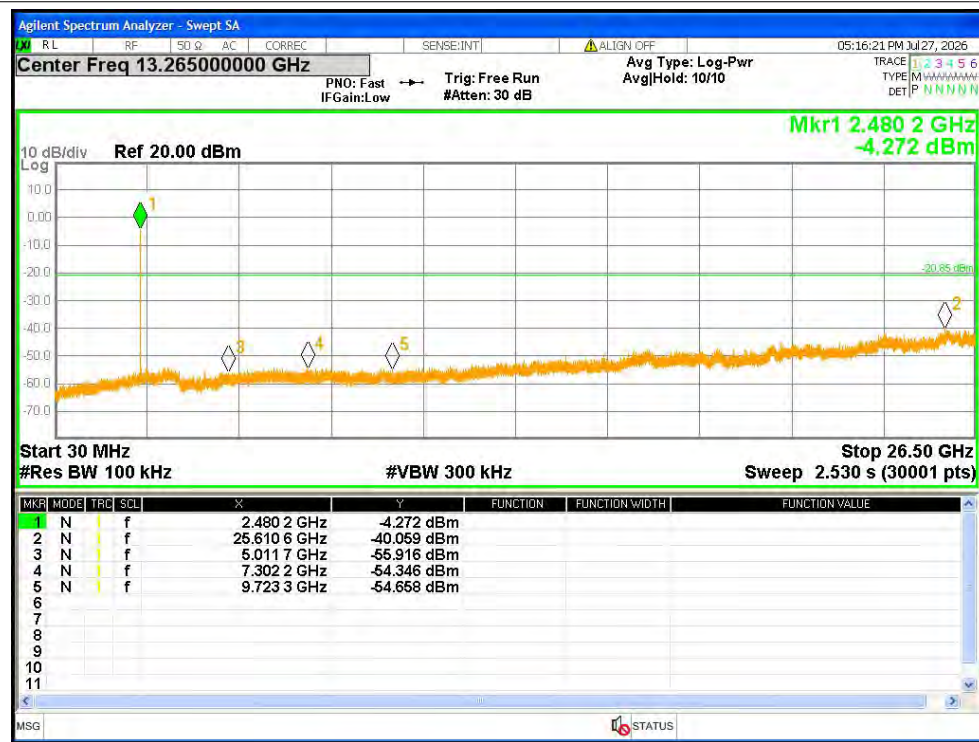
Tx. Spurious NVNT 2-DH5 2441MHz Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ref



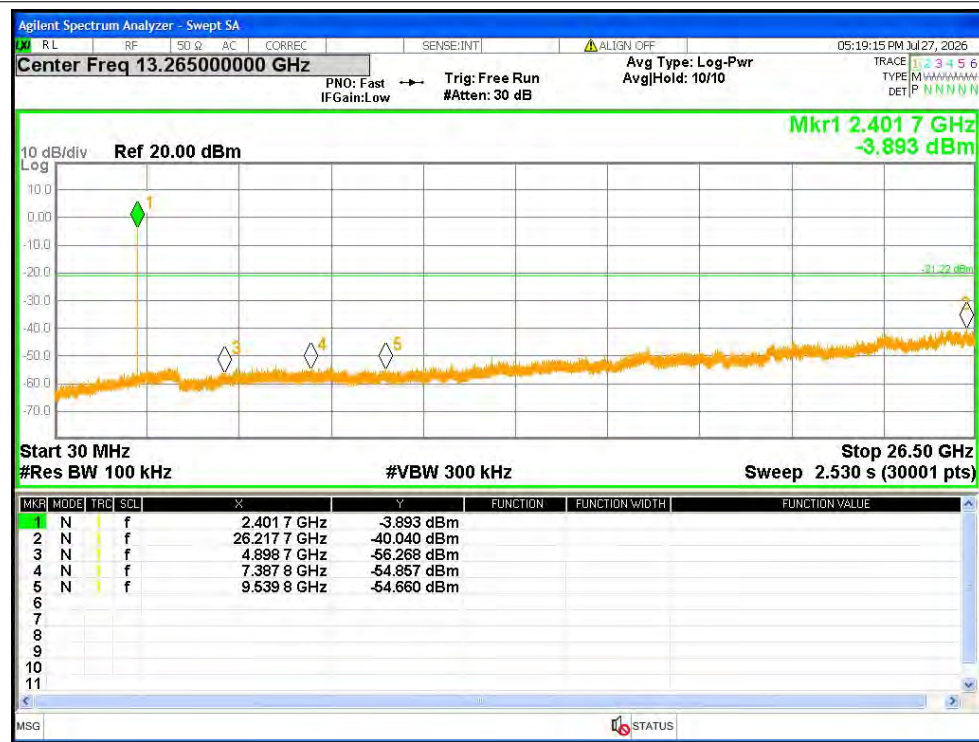
Tx. Spurious NVNT 2-DH5 2480MHz Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ref



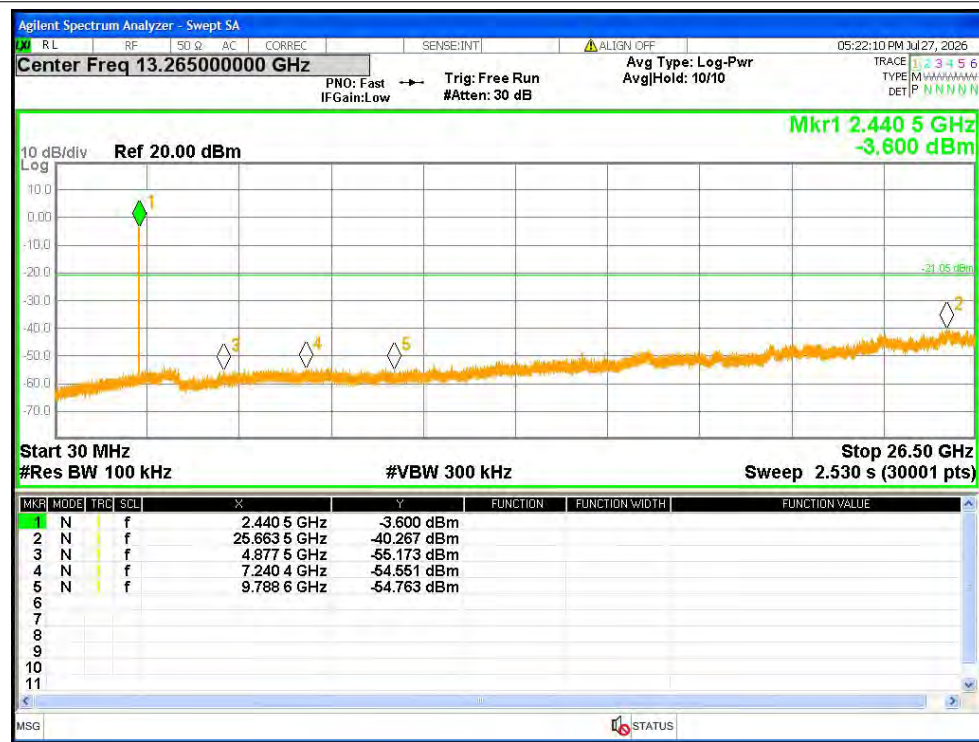
Tx. Spurious NVNT 3-DH5 2402MHz Emission



Tx. Spurious NVNT 3-DH5 2441MHz Ref



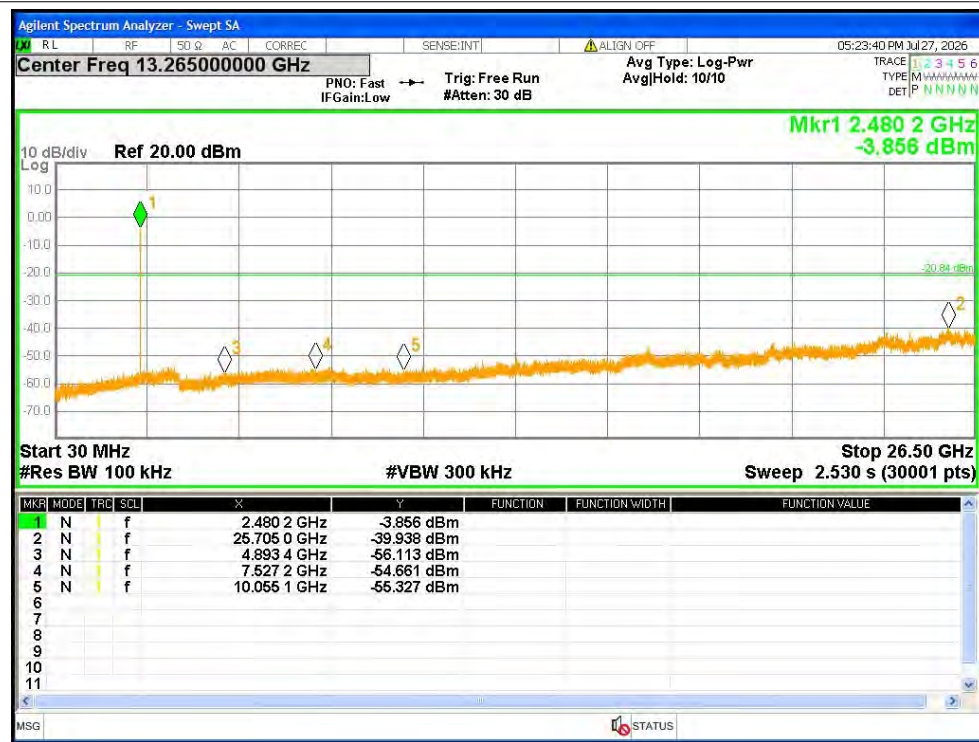
Tx. Spurious NVNT 3-DH5 2441MHz Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ref



Tx. Spurious NVNT 3-DH5 2480MHz Emission

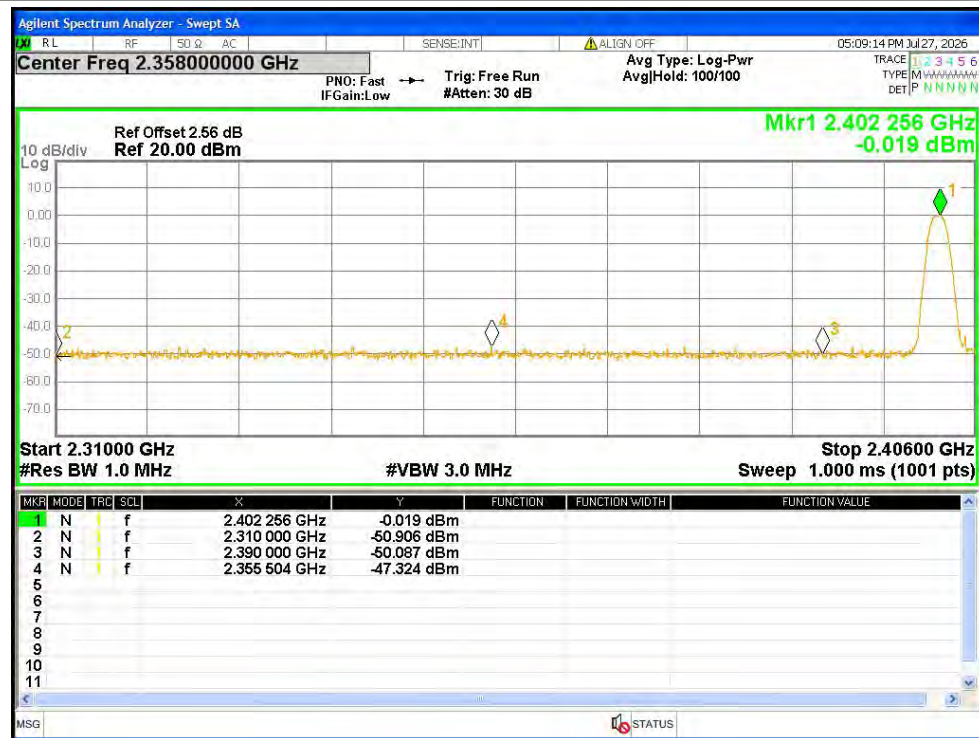


Restrict Band

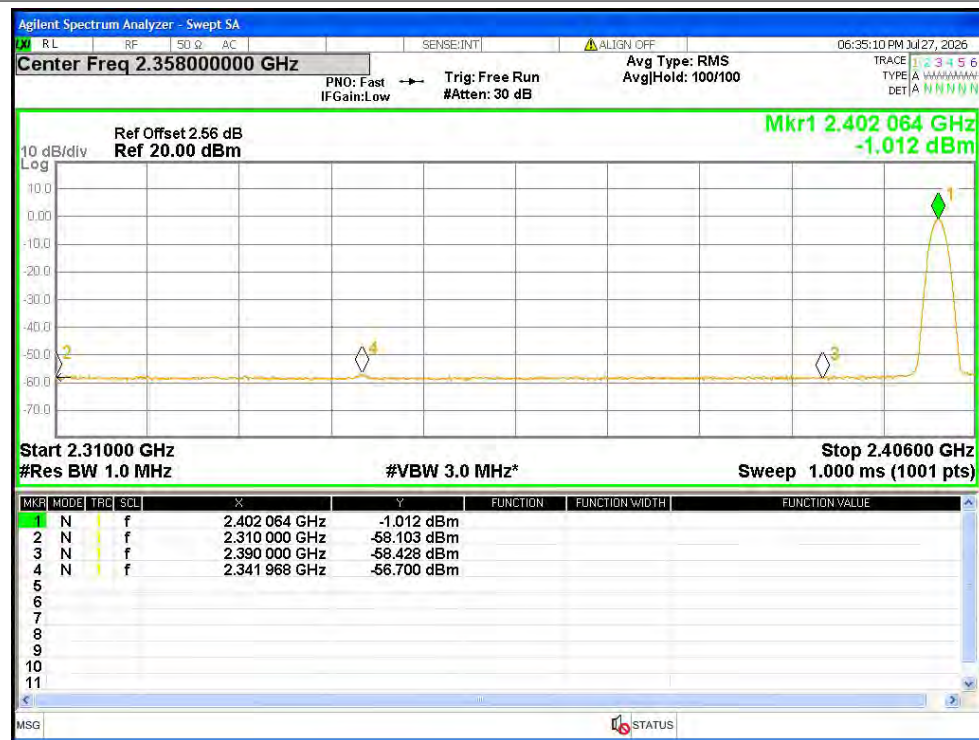
Mode	Frequency (MHz)	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
1-DH5	2402	No-Hopping	2310	-50.9	2	0	46.36	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2310	-58.1	2	1.14	40.30	Average	<=54	Pass
1-DH5	2402	No-Hopping	2355.504	-47.32	2	0	49.94	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2341.968	-56.7	2	1.14	41.70	Average	<=54	Pass
1-DH5	2402	No-Hopping	2390	-51.26	2	0	46.00	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2390	-58.26	2	1.14	40.14	Average	<=54	Pass
1-DH5	2480	No-Hopping	2483.5	-49.19	2	0	48.07	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2483.5	-56.96	2	1.14	41.44	Average	<=54	Pass
1-DH5	2480	No-Hopping	2487.592	-41.73	2	0	55.53	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2487.424	-55.82	2	1.14	42.58	Average	<=54	Pass
1-DH5	2480	No-Hopping	2500	-48.94	2	0	48.32	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2500	-57.68	2	1.14	40.72	Average	<=54	Pass
2-DH5	2402	No-Hopping	2310	-50.11	2	0	47.15	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2310	-58.49	2	1.13	39.90	Average	<=54	Pass
2-DH5	2402	No-Hopping	2360.496	-47.13	2	0	50.13	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2380.56	-57.35	2	1.13	41.04	Average	<=54	Pass
2-DH5	2402	No-Hopping	2390	-49.55	2	0	47.71	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2390	-58.04	2	1.13	40.35	Average	<=54	Pass
2-DH5	2480	No-Hopping	2483.5	-47.08	2	0	50.18	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2483.5	-55.5	2	1.13	42.89	Average	<=54	Pass
2-DH5	2480	No-Hopping	2485.888	-45.1	2	0	52.16	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2483.824	-54.64	2	1.13	43.75	Average	<=54	Pass
2-DH5	2480	No-Hopping	2500	-49.06	2	0	48.20	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2500	-57.69	2	1.13	40.70	Average	<=54	Pass
3-DH5	2402	No-Hopping	2310	-49.81	2	0	47.45	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2310	-58.37	2	1.13	40.02	Average	<=54	Pass
3-DH5	2402	No-Hopping	2342.352	-46.6	2	0	50.66	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2386.704	-57.21	2	1.13	41.18	Average	<=54	Pass
3-DH5	2402	No-Hopping	2390	-47.65	2	0	49.61	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2390	-57.45	2	1.13	40.94	Average	<=54	Pass
3-DH5	2480	No-Hopping	2483.5	-44.28	2	0	52.98	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2483.5	-54.71	2	1.13	43.68	Average	<=54	Pass
3-DH5	2480	No-Hopping	2484.136	-41.89	2	0	55.37	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2484.16	-53.76	2	1.13	44.63	Average	<=54	Pass
3-DH5	2480	No-Hopping	2500	-50.6	2	0	46.66	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2500	-57.47	2	1.13	40.92	Average	<=54	Pass

Test Graphs

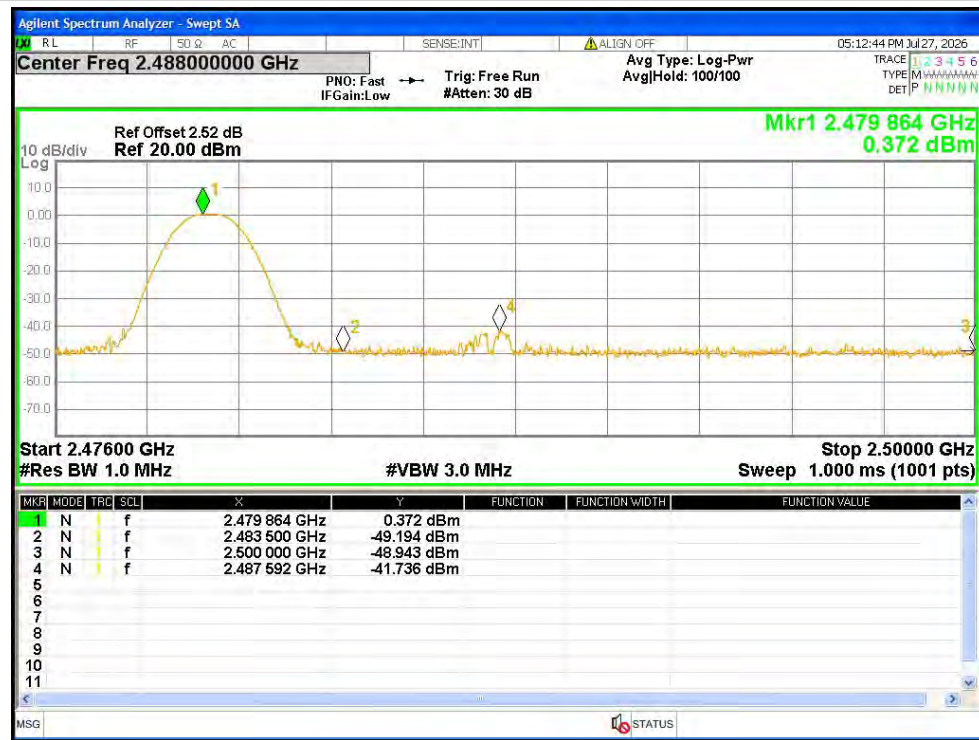
Restrict Band NVNT 1-DH5 2402MHz No-Hopping Peak



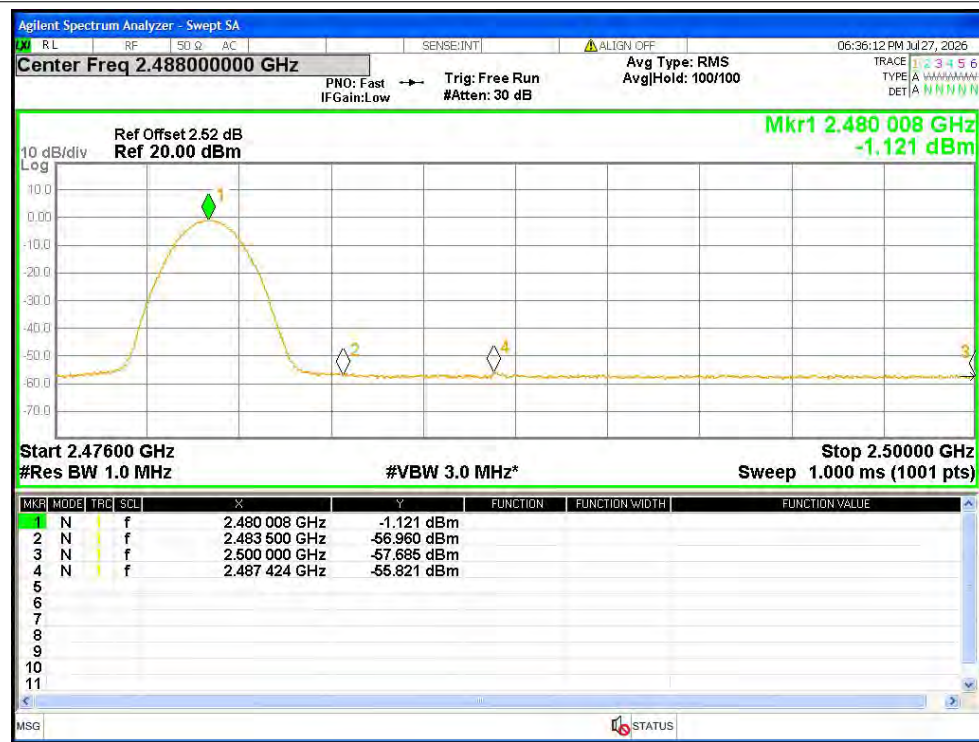
Restrict Band NVNT 1-DH5 2402MHz No-Hopping Average



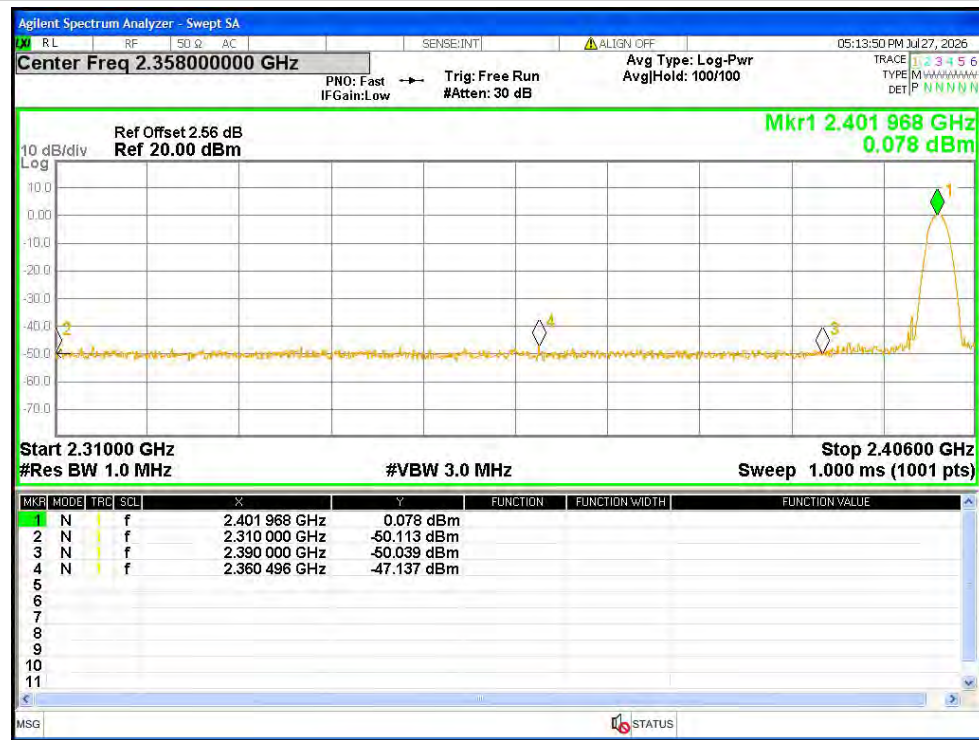
Restrict Band NVNT 1-DH5 2480MHz No-Hopping Peak



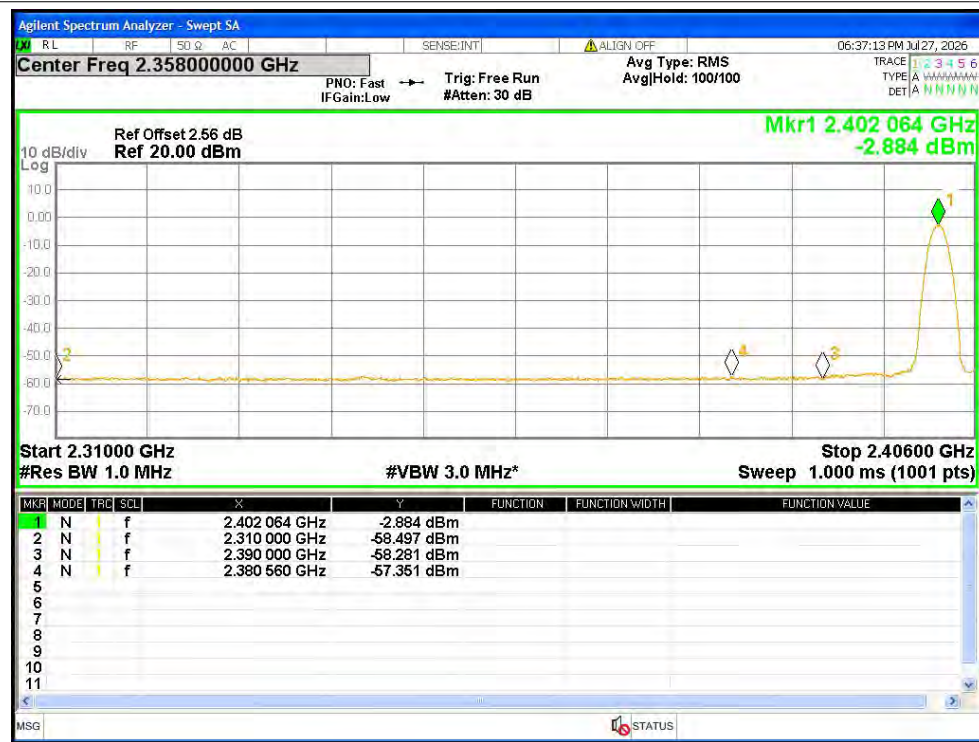
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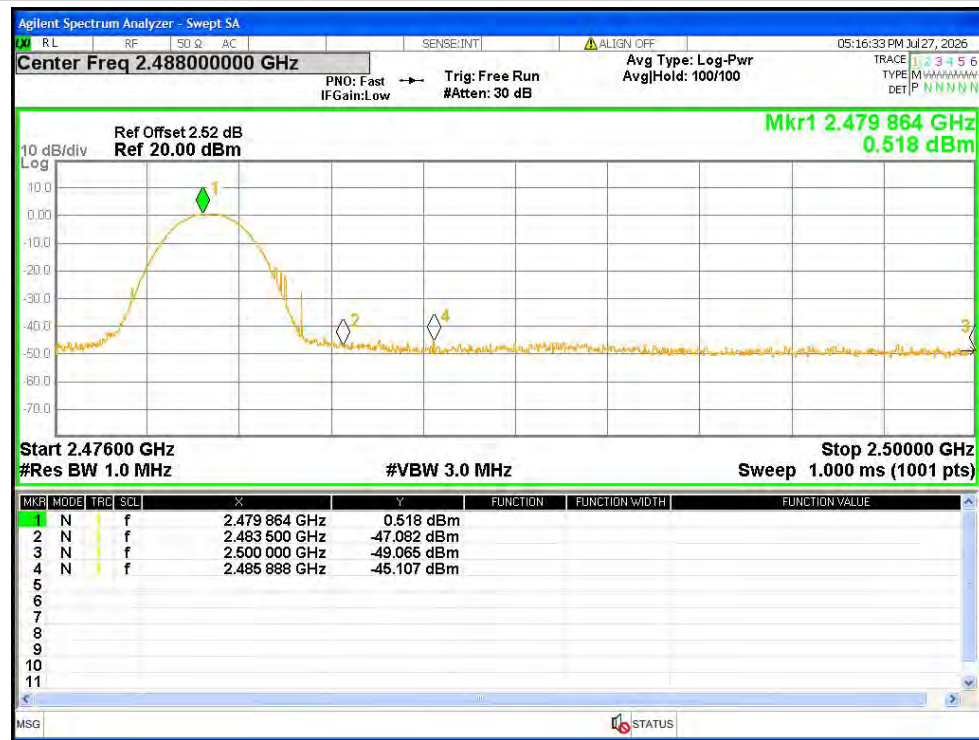
Restrict Band NVNT 2-DH5 2402MHz No-Hopping Peak



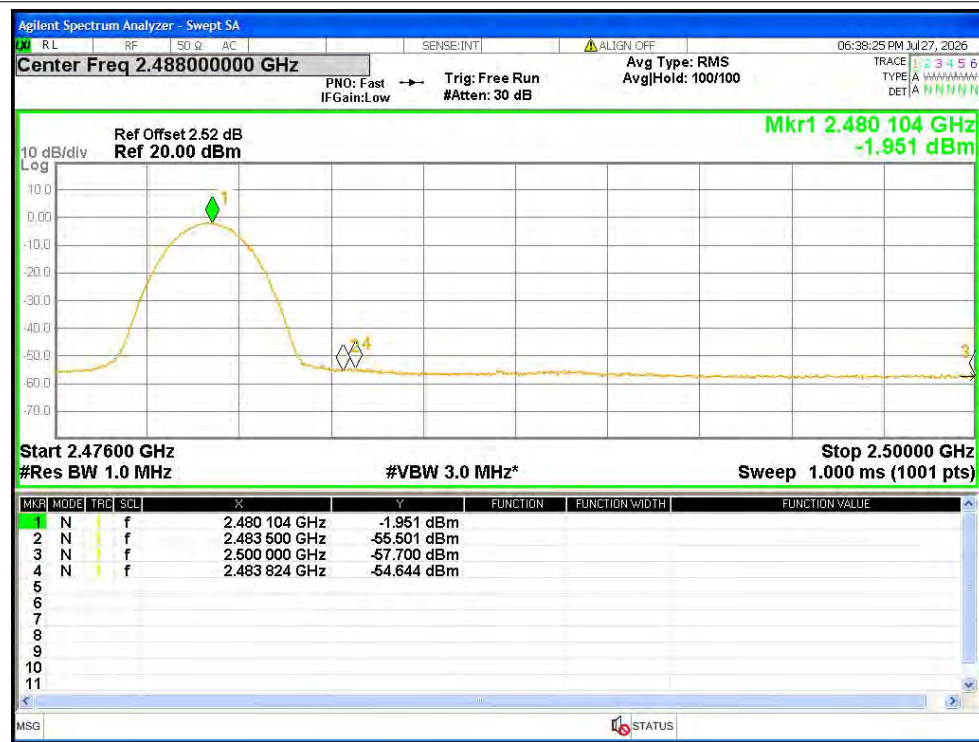
Restrict Band NVNT 2-DH5 2402MHz No-Hopping Average



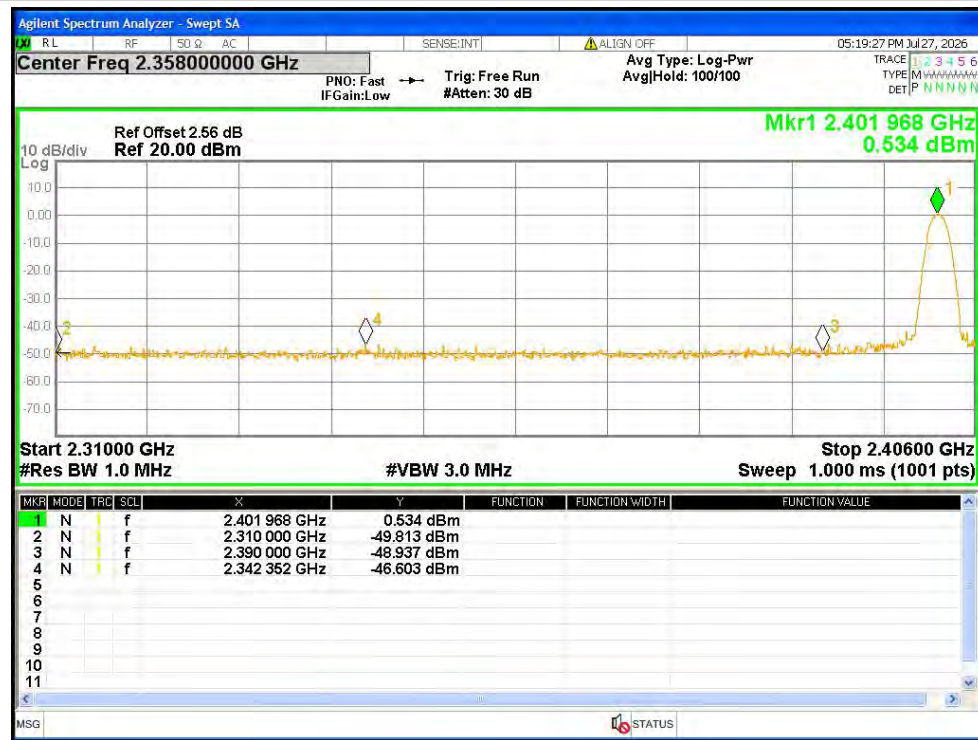
Restrict Band NVNT 2-DH5 2480MHz No-Hopping Peak



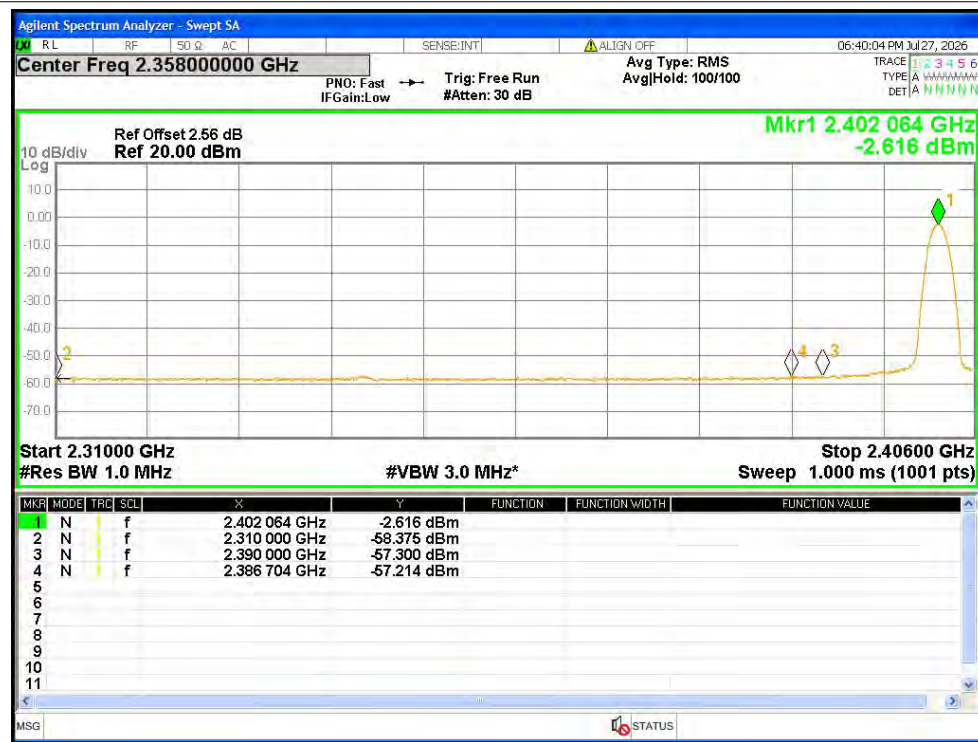
Restrict Band NVNT 2-DH5 2480MHz No-Hopping Average



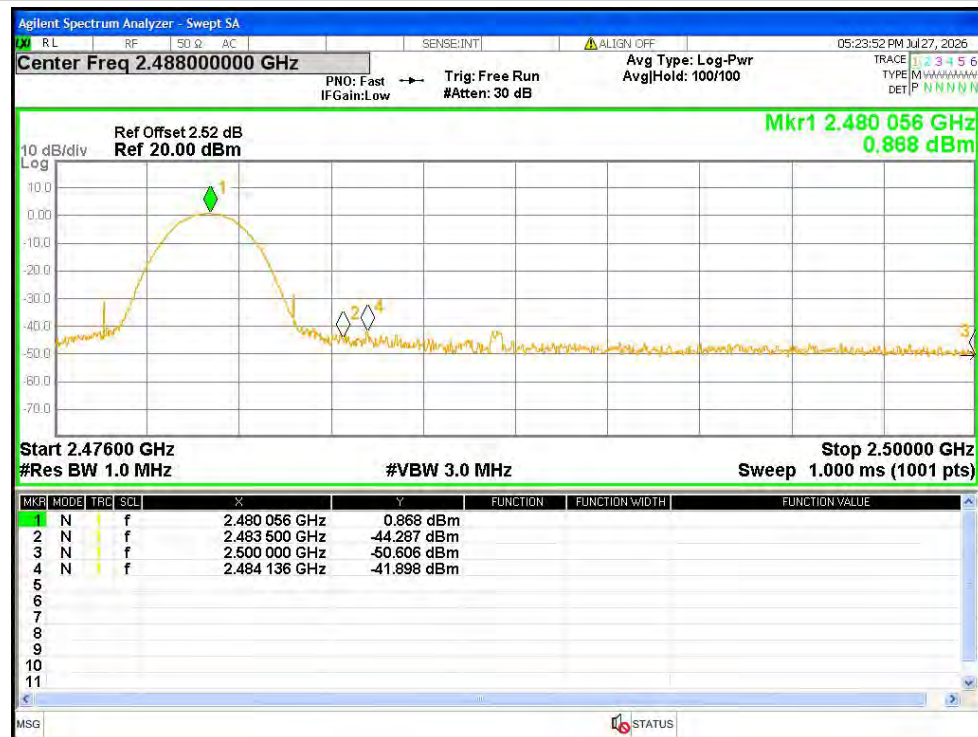
Restrict Band NVNT 3-DH5 2402MHz No-Hopping Peak



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



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



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

