

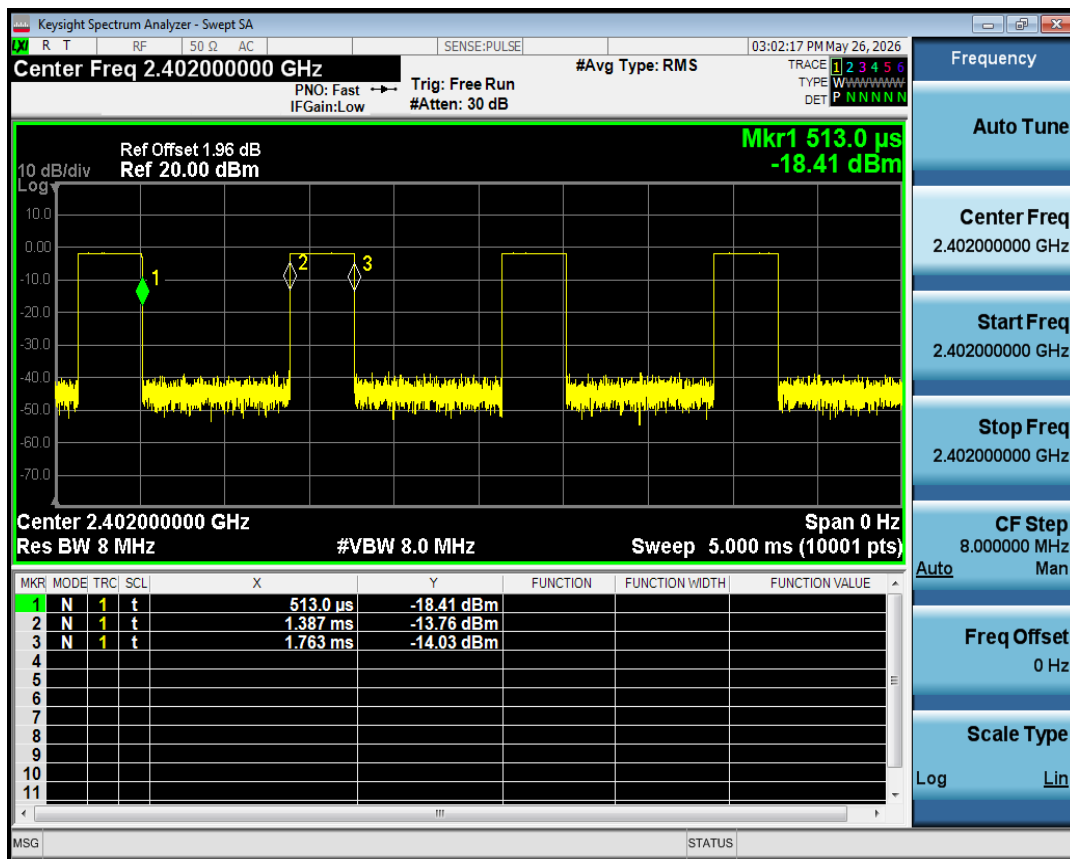
RF Test Data

FCC ID:2BWG4-PZR-13

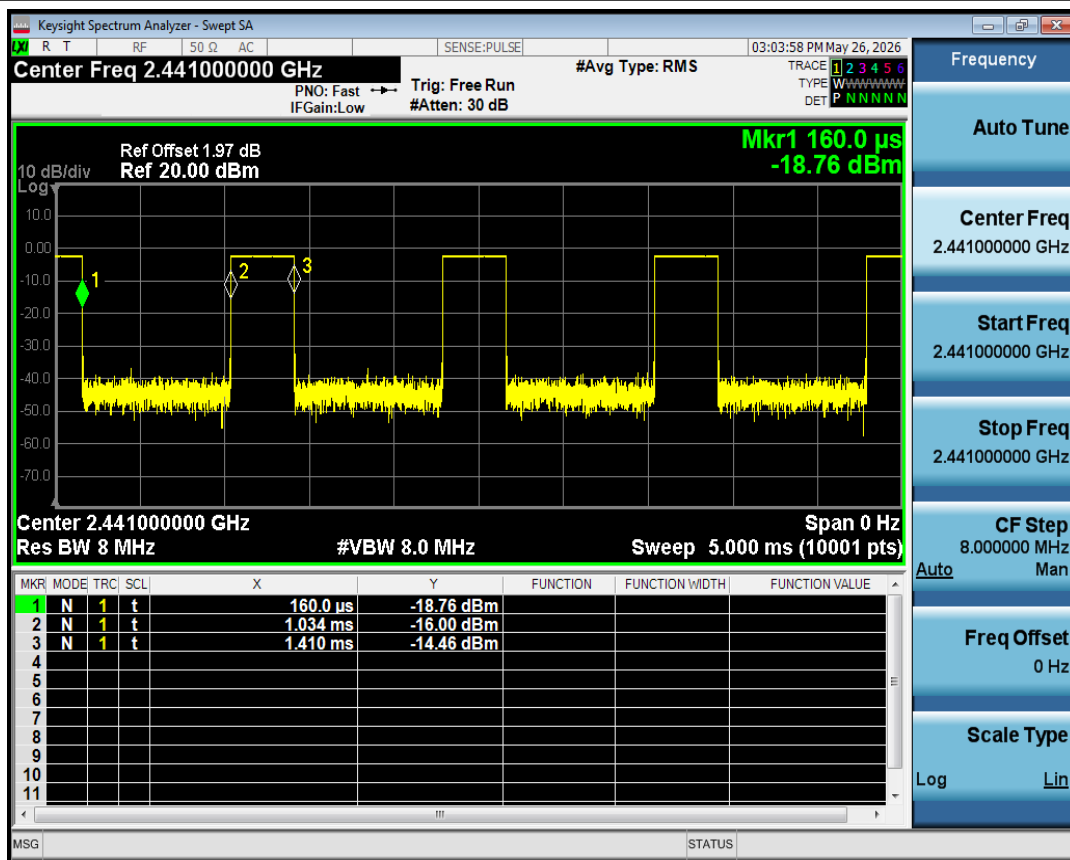
Duty Cycle	2
Maximum Peak Conducted Output Power	8
-20dB Bandwidth	14
Occupied Channel Bandwidth	20
Carrier Frequencies Separation	26
Band Edge	32
Band Edge(Hopping)	39
Conducted RF Spurious Emission	46
Number of Hopping Channel	56
Dwell Time	59

Duty Cycle

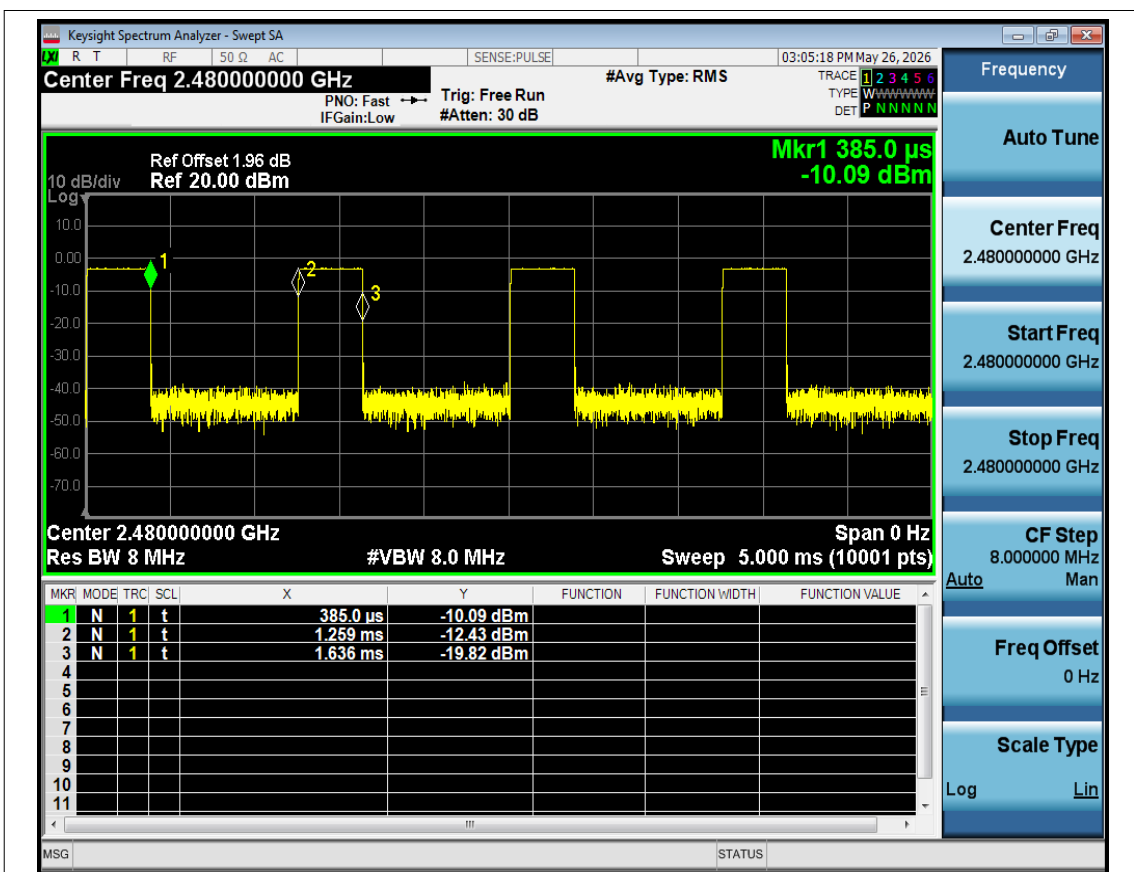
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.12	5.21	2.66
NVNT	1-DH1	2441	Ant1	30.12	5.21	2.66
NVNT	1-DH1	2480	Ant1	30.11	5.21	2.66
NVNT	2-DH1	2402	Ant1	30.91	5.1	2.59
NVNT	2-DH1	2441	Ant1	30.96	5.09	2.58
NVNT	2-DH1	2480	Ant1	30.92	5.1	2.59
NVNT	3-DH1	2402	Ant1	30.99	5.09	2.58
NVNT	3-DH1	2441	Ant1	30.99	5.09	2.58
NVNT	3-DH1	2480	Ant1	30.96	5.09	2.58



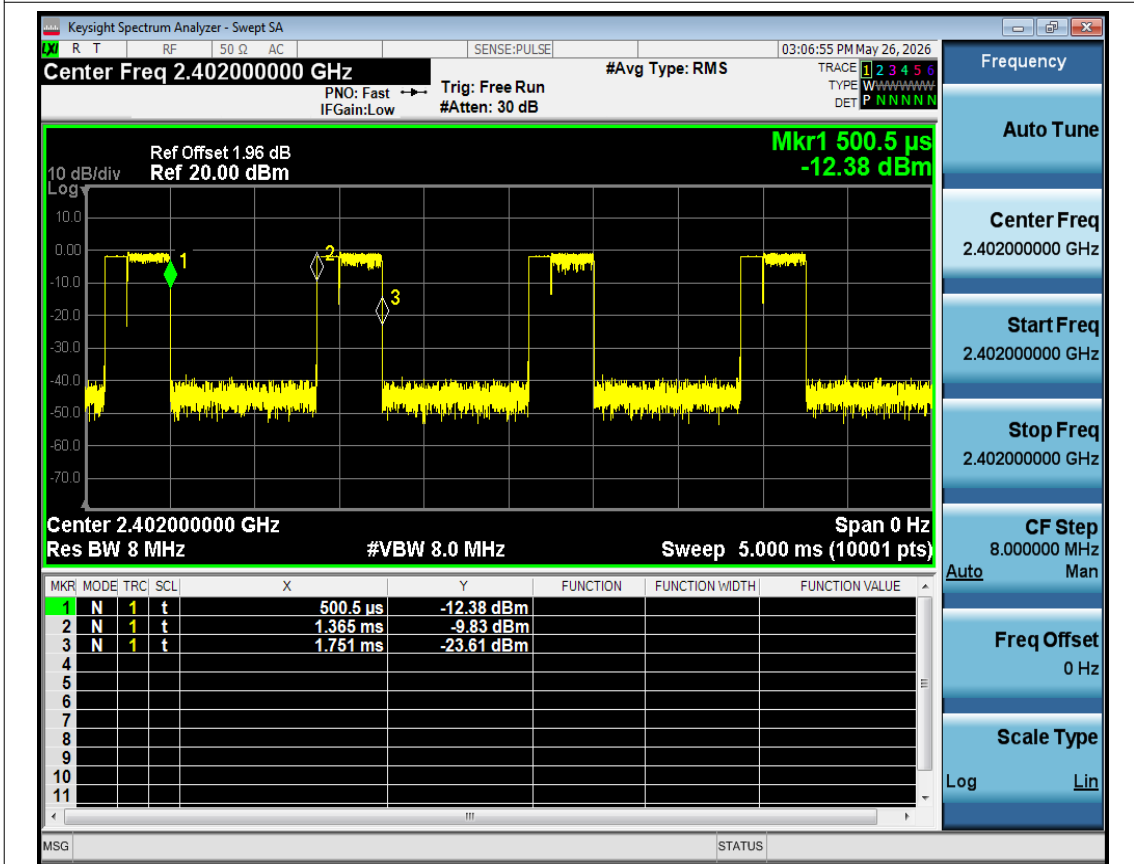
Duty Cycle NVNT 1-DH1 2402MHz Ant1



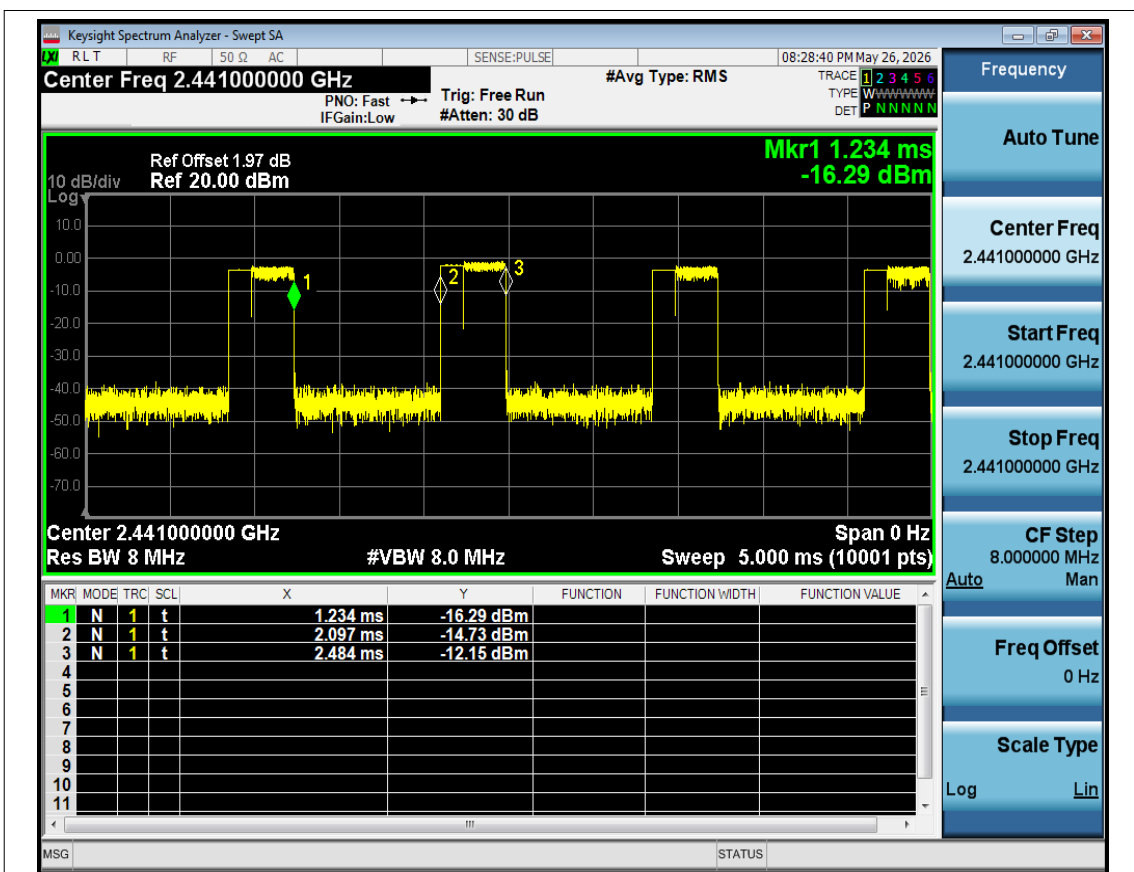
Duty Cycle NVNT 1-DH1 2441MHz Ant1



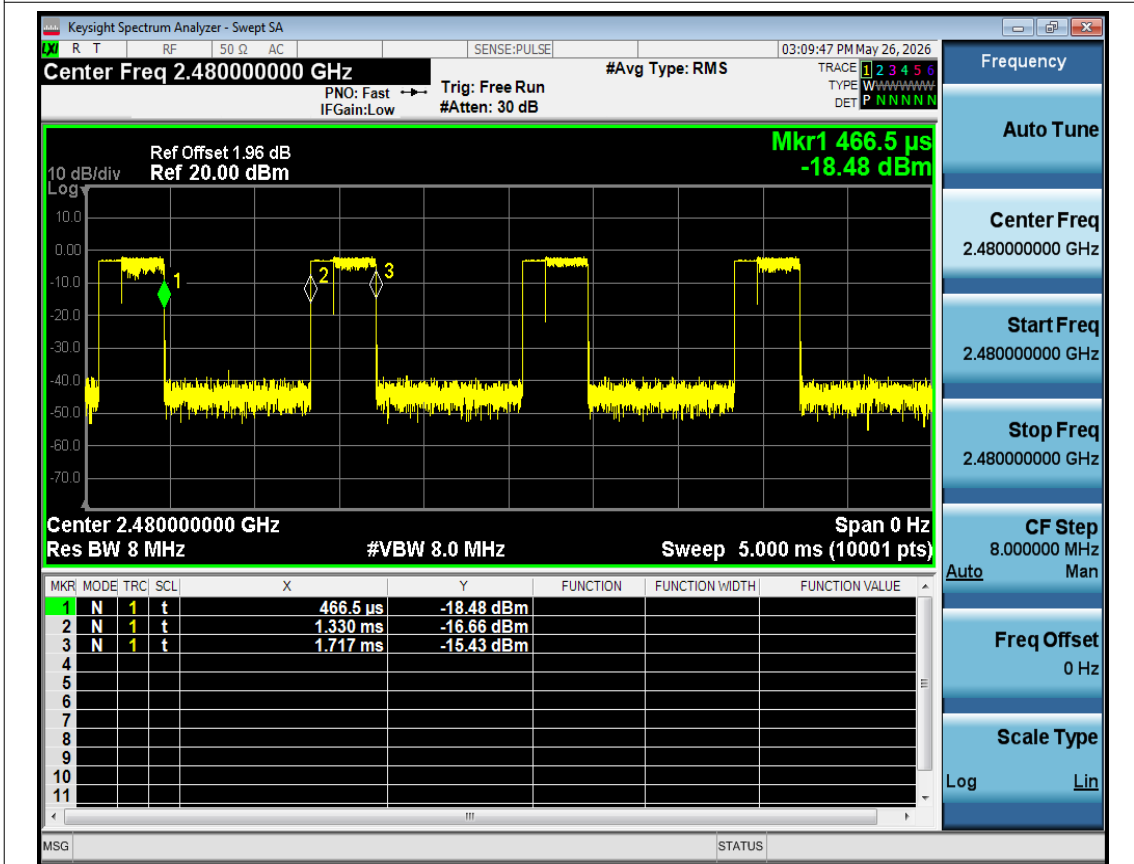
Duty Cycle NVNT 1-DH1 2480MHz Ant1



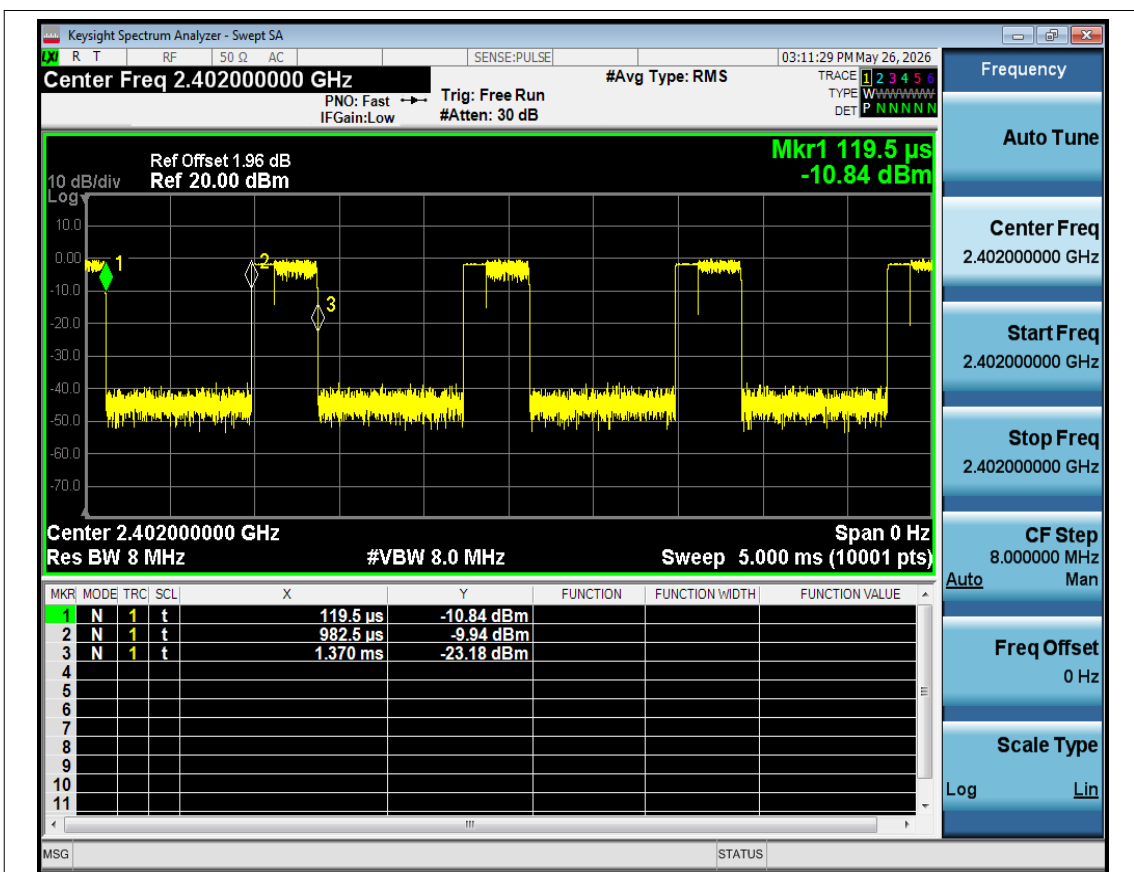
Duty Cycle NVNT 2-DH1 2402MHz Ant1



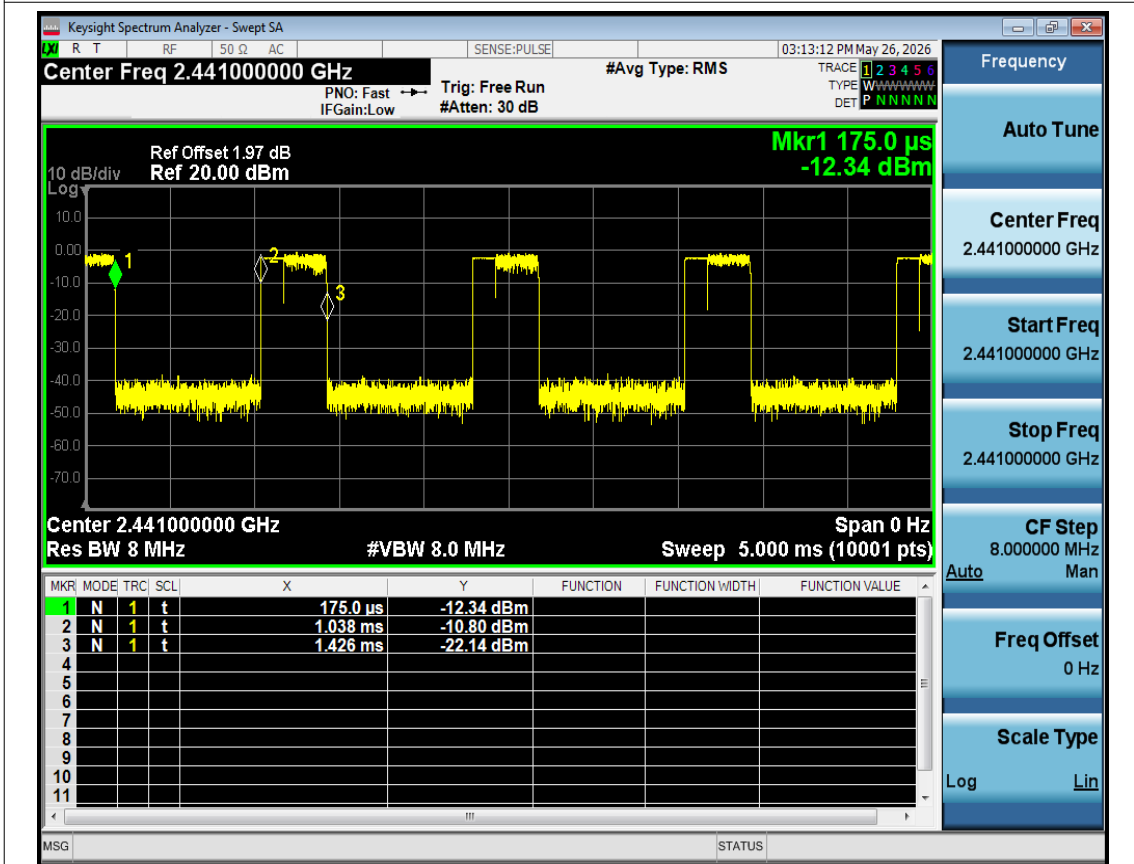
Duty Cycle NVNT 2-DH1 2441MHz Ant1



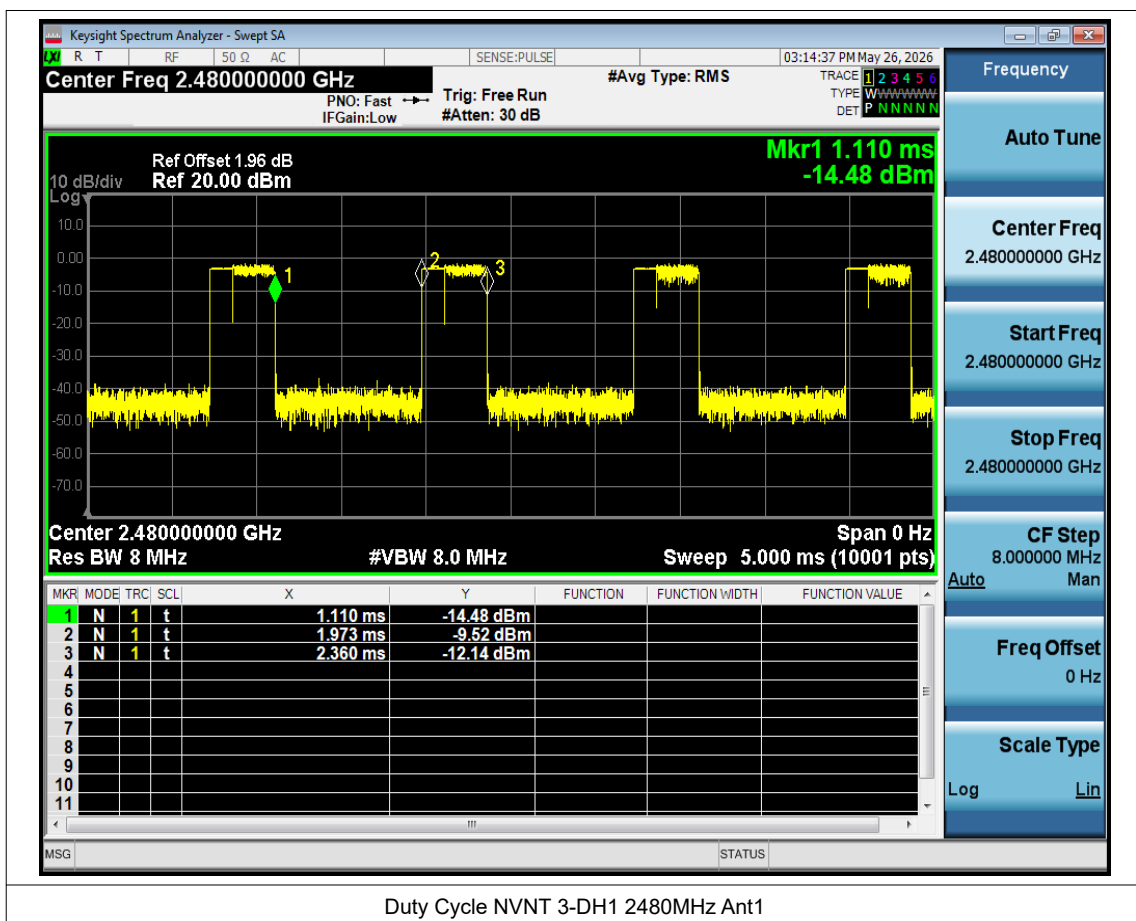
Duty Cycle NVNT 2-DH1 2480MHz Ant1



Duty Cycle NVNT 3-DH1 2402MHz Ant1

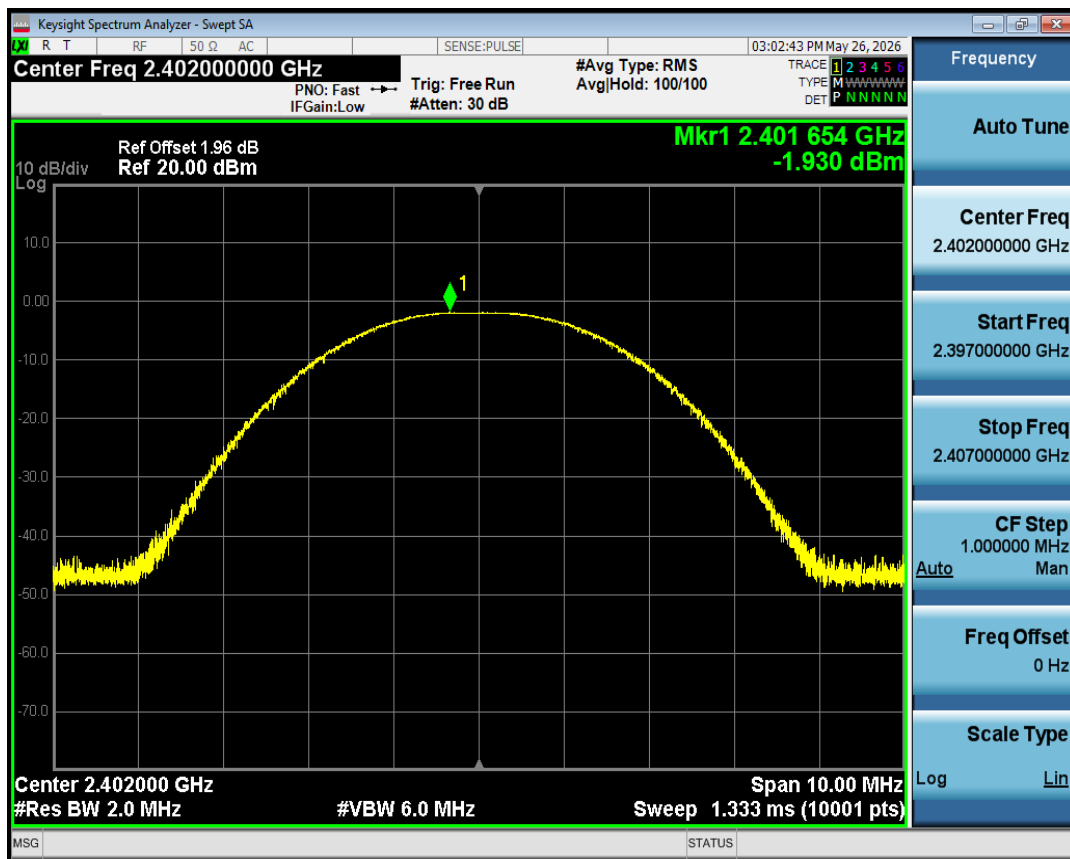


Duty Cycle NVNT 3-DH1 2441MHz Ant1

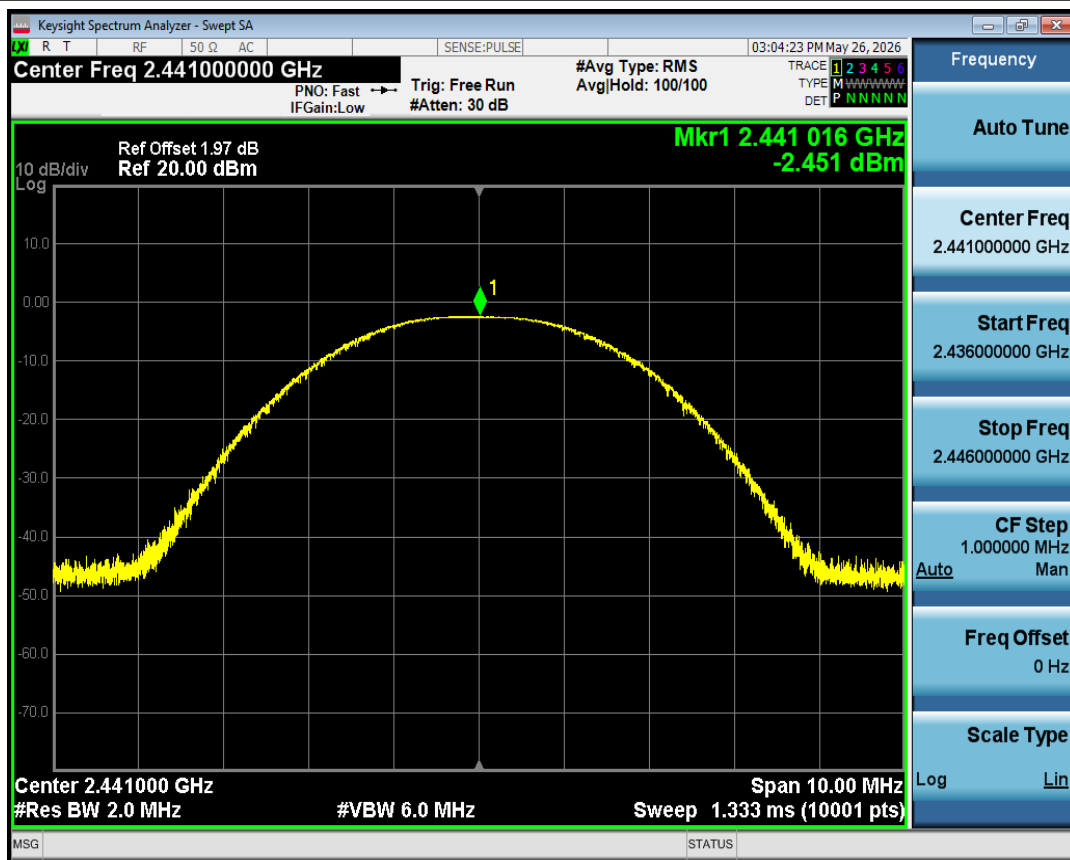


Maximum Peak Conducted Output Power

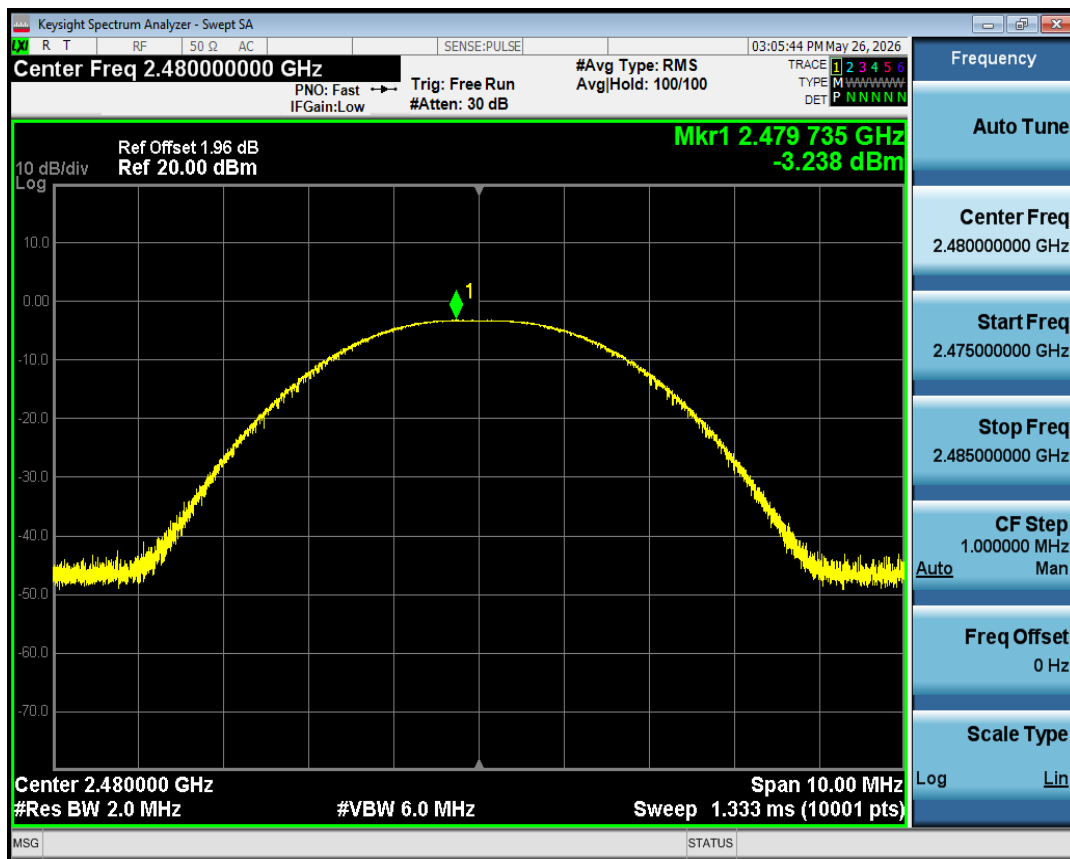
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Conducted Power (W)	Limit Conducted(dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-1.93	0.00064	21	Pass
NVNT	1-DH1	2441	Ant1	-2.45	0.00057	21	Pass
NVNT	1-DH1	2480	Ant1	-3.24	0.00047	21	Pass
NVNT	2-DH1	2402	Ant1	-1.11	0.00077	21	Pass
NVNT	2-DH1	2441	Ant1	-1.61	0.00069	21	Pass
NVNT	2-DH1	2480	Ant1	-2.35	0.00058	21	Pass
NVNT	3-DH1	2402	Ant1	-0.46	0.0009	21	Pass
NVNT	3-DH1	2441	Ant1	-0.96	0.0008	21	Pass
NVNT	3-DH1	2480	Ant1	-1.72	0.00067	21	Pass



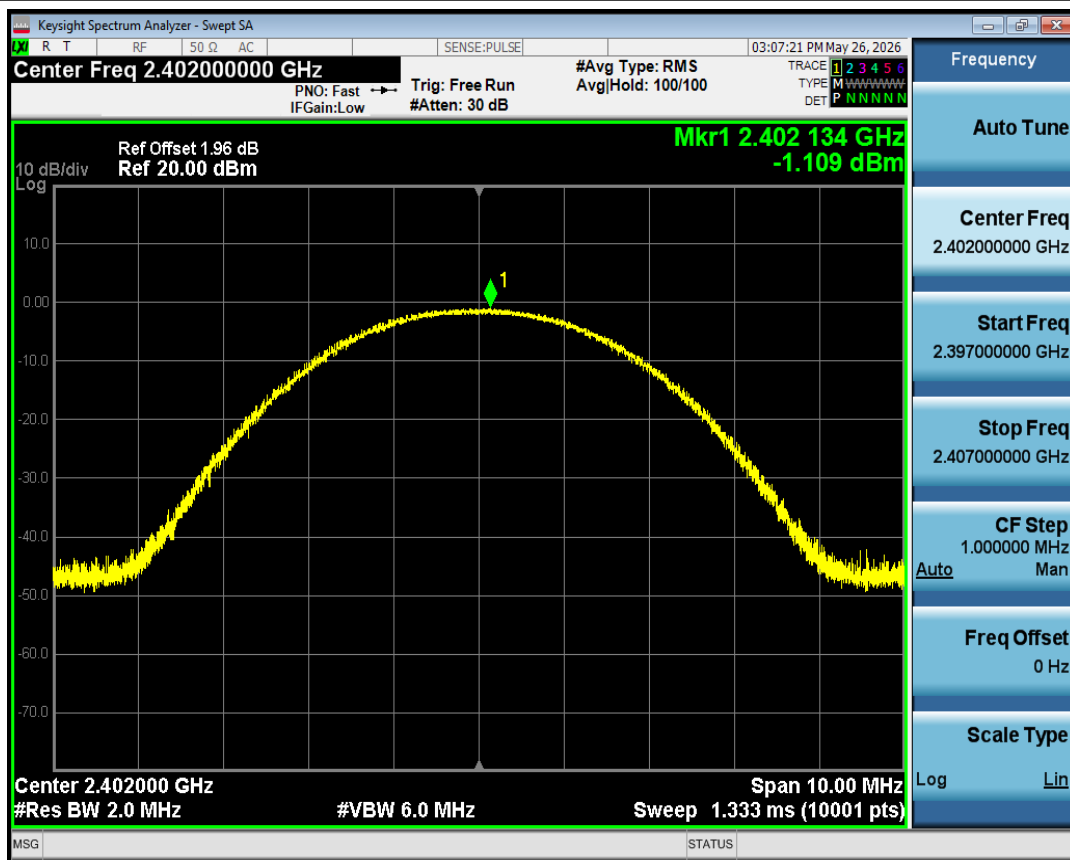
Peak Power NVNT 1-DH1 2402MHz Ant1



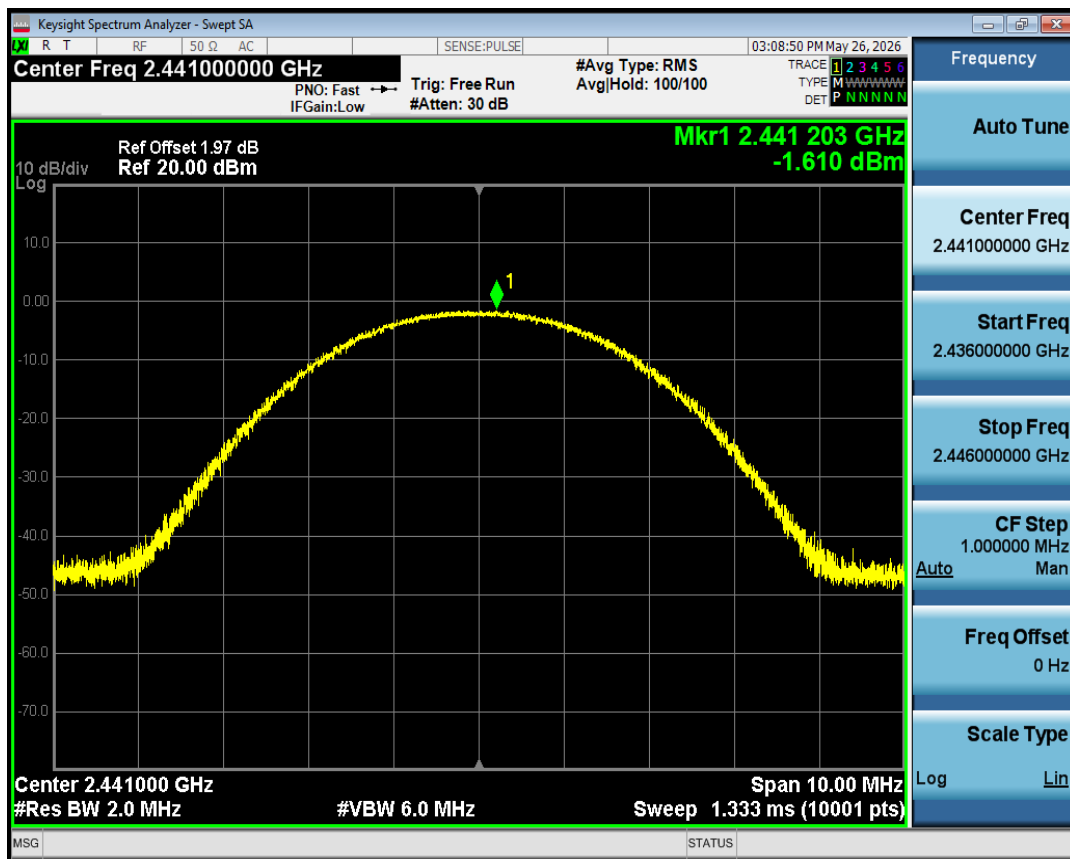
Peak Power NVNT 1-DH1 2441MHz Ant1



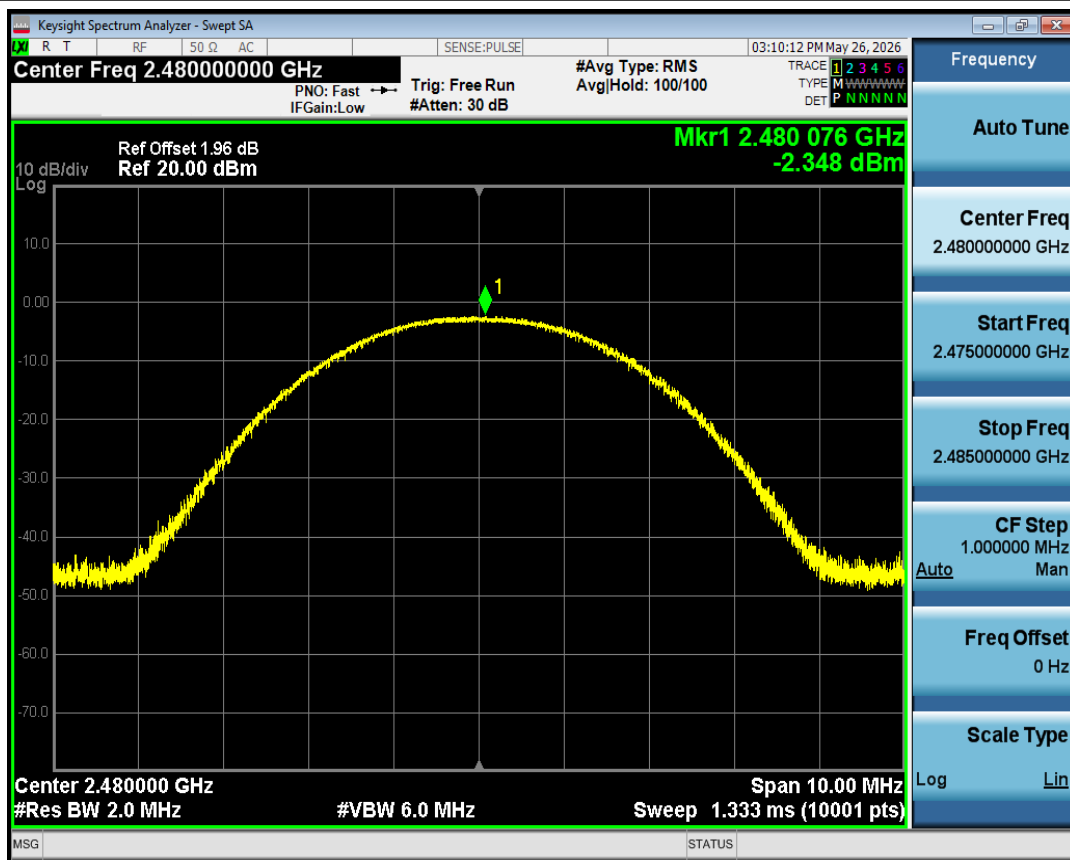
Peak Power NVNT 1-DH1 2480MHz Ant1



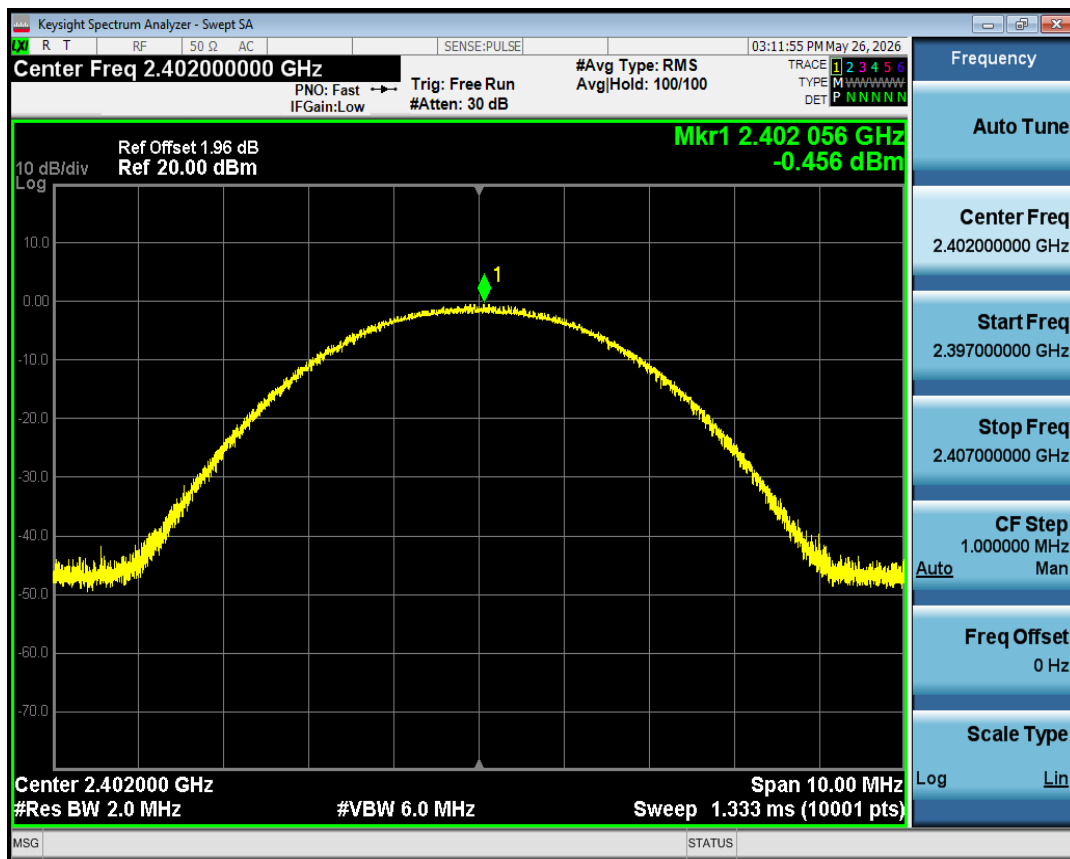
Peak Power NVNT 2-DH1 2402MHz Ant1



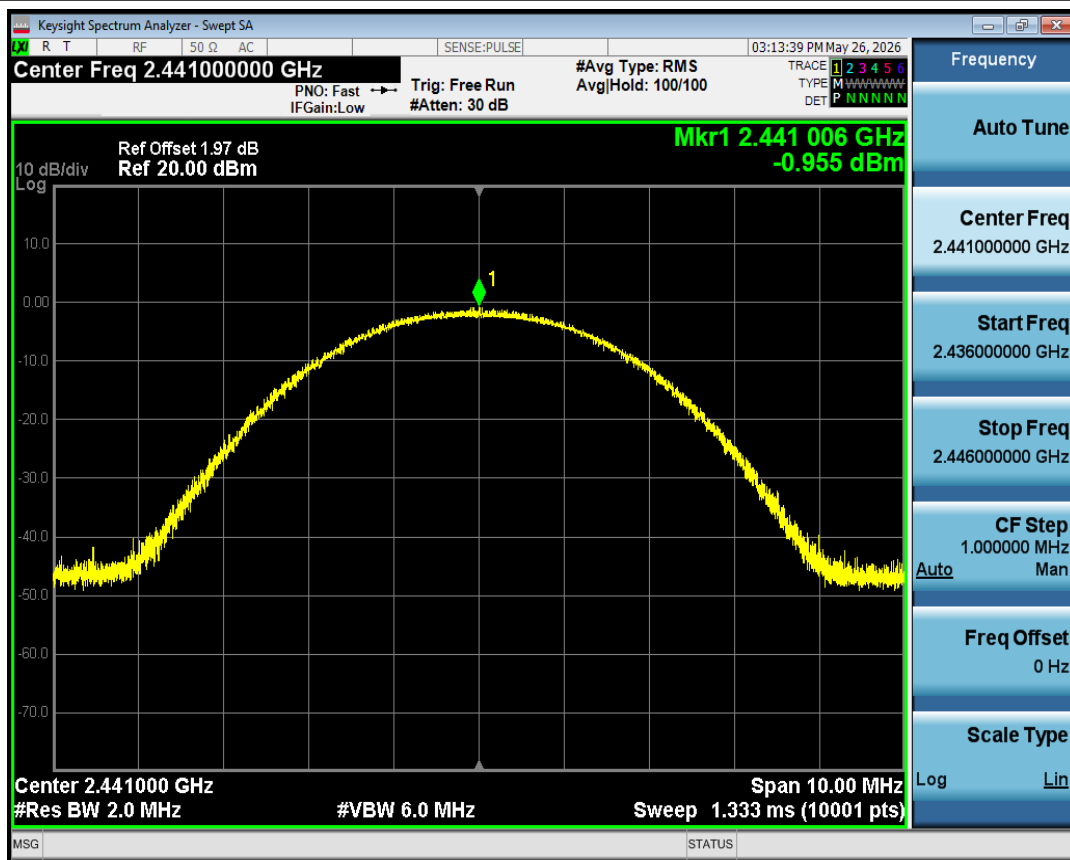
Peak Power NVNT 2-DH1 2441MHz Ant1



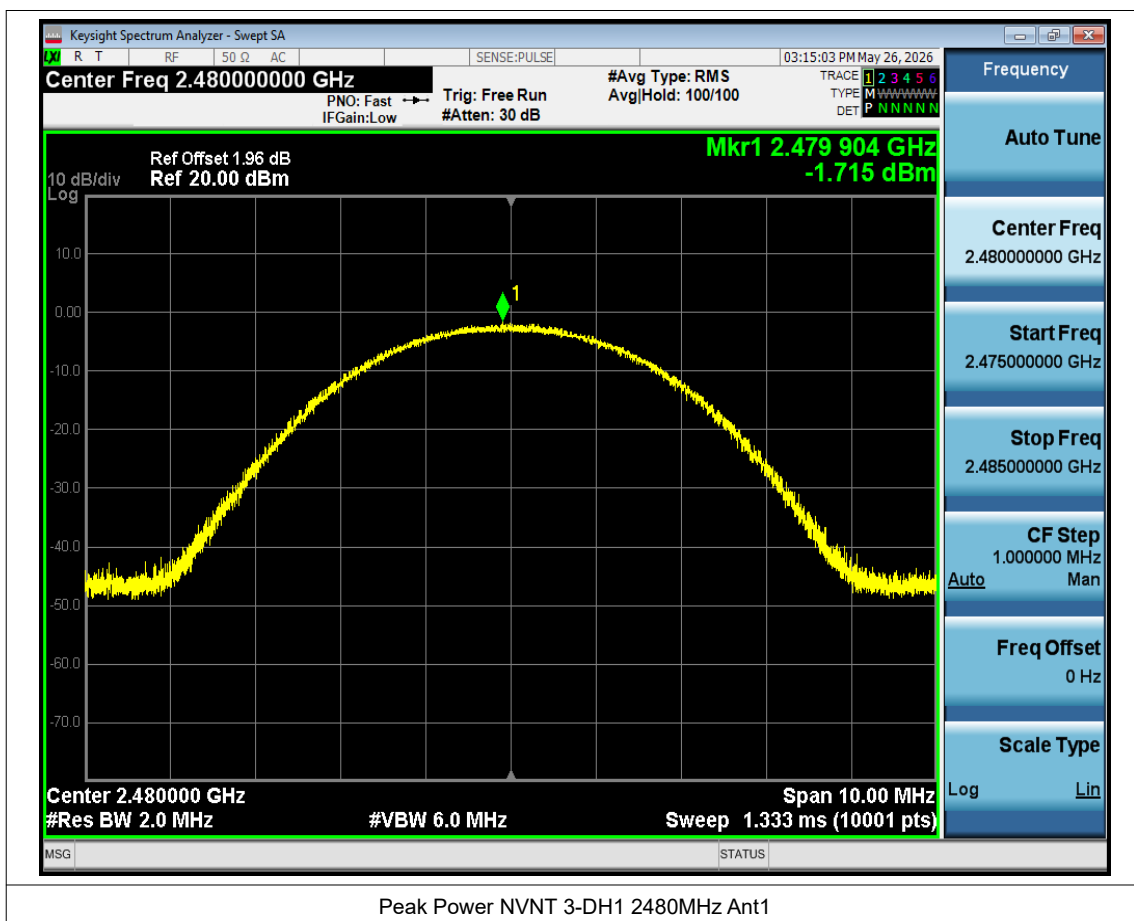
Peak Power NVNT 2-DH1 2480MHz Ant1



Peak Power NVNT 3-DH1 2402MHz Ant1



Peak Power NVNT 3-DH1 2441MHz Ant1



-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	1.025	Pass
NVNT	1-DH1	2441	Ant1	1.034	Pass
NVNT	1-DH1	2480	Ant1	1.036	Pass
NVNT	2-DH1	2402	Ant1	1.277	Pass
NVNT	2-DH1	2441	Ant1	1.289	Pass
NVNT	2-DH1	2480	Ant1	1.274	Pass
NVNT	3-DH1	2402	Ant1	1.241	Pass
NVNT	3-DH1	2441	Ant1	1.259	Pass
NVNT	3-DH1	2480	Ant1	1.254	Pass



-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.94843
NVNT	1-DH1	2441	Ant1	0.97516
NVNT	1-DH1	2480	Ant1	0.96738
NVNT	2-DH1	2402	Ant1	1.2021
NVNT	2-DH1	2441	Ant1	1.1993
NVNT	2-DH1	2480	Ant1	1.1876
NVNT	3-DH1	2402	Ant1	1.1775
NVNT	3-DH1	2441	Ant1	1.1933
NVNT	3-DH1	2480	Ant1	1.1956



OBW NVNT 1-DH1 2402MHz Ant1



OBW NVNT 1-DH1 2441MHz Ant1



OBW NVNT 1-DH1 2480MHz Ant1



OBW NVNT 2-DH1 2402MHz Ant1



OBW NVNT 2-DH1 2441MHz Ant1



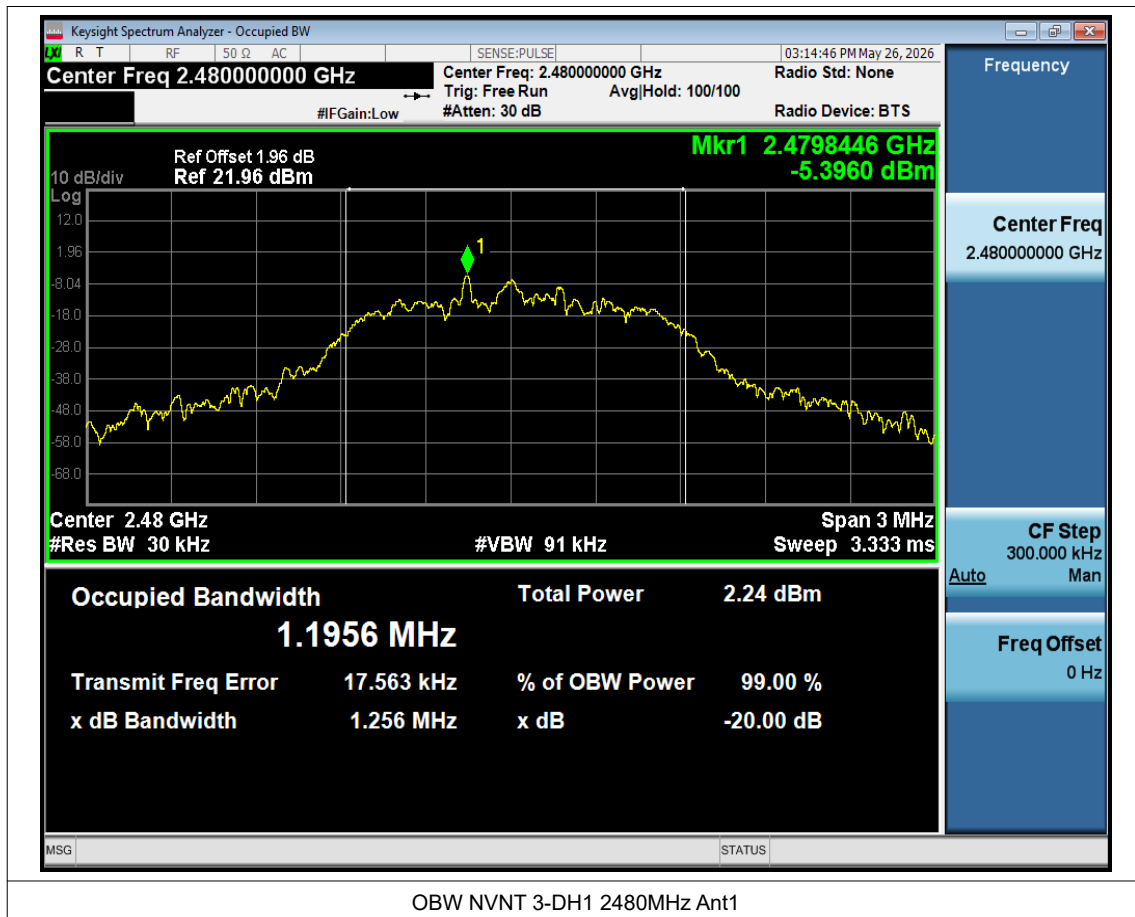
OBW NVNT 2-DH1 2480MHz Ant1



OBW NVNT 3-DH1 2402MHz Ant1

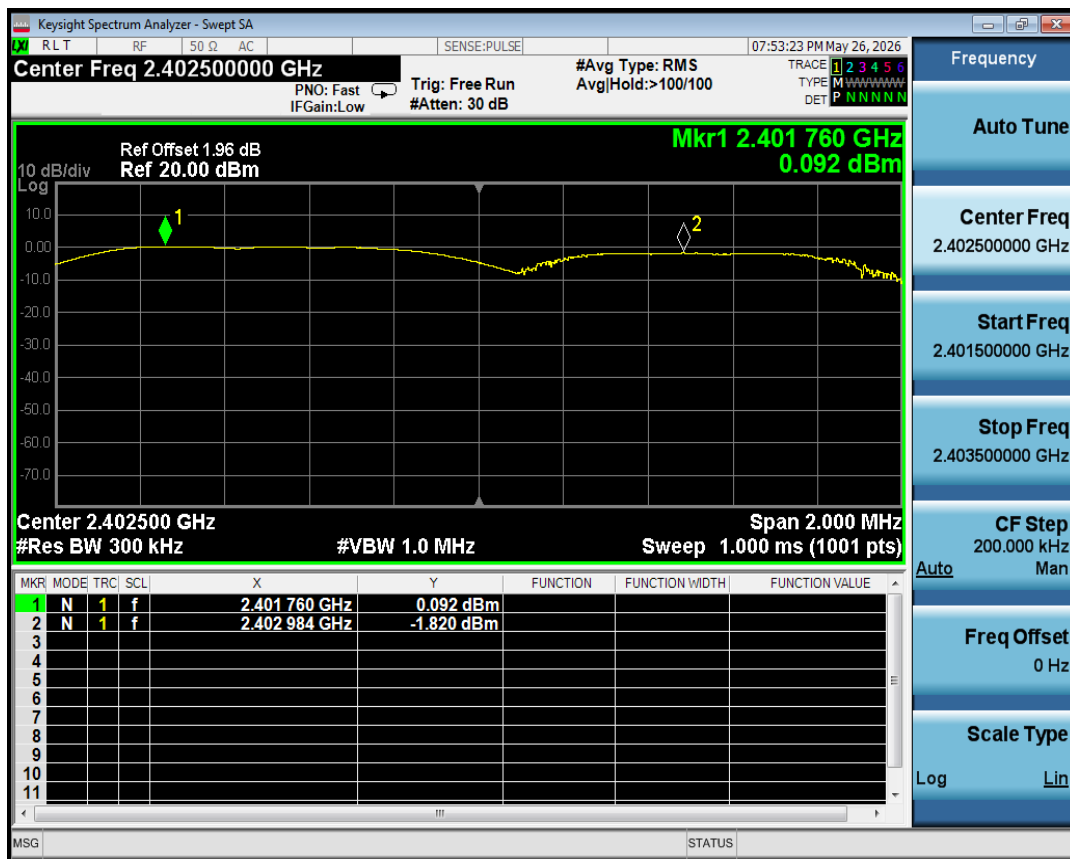


OBW NVNT 3-DH1 2441MHz Ant1

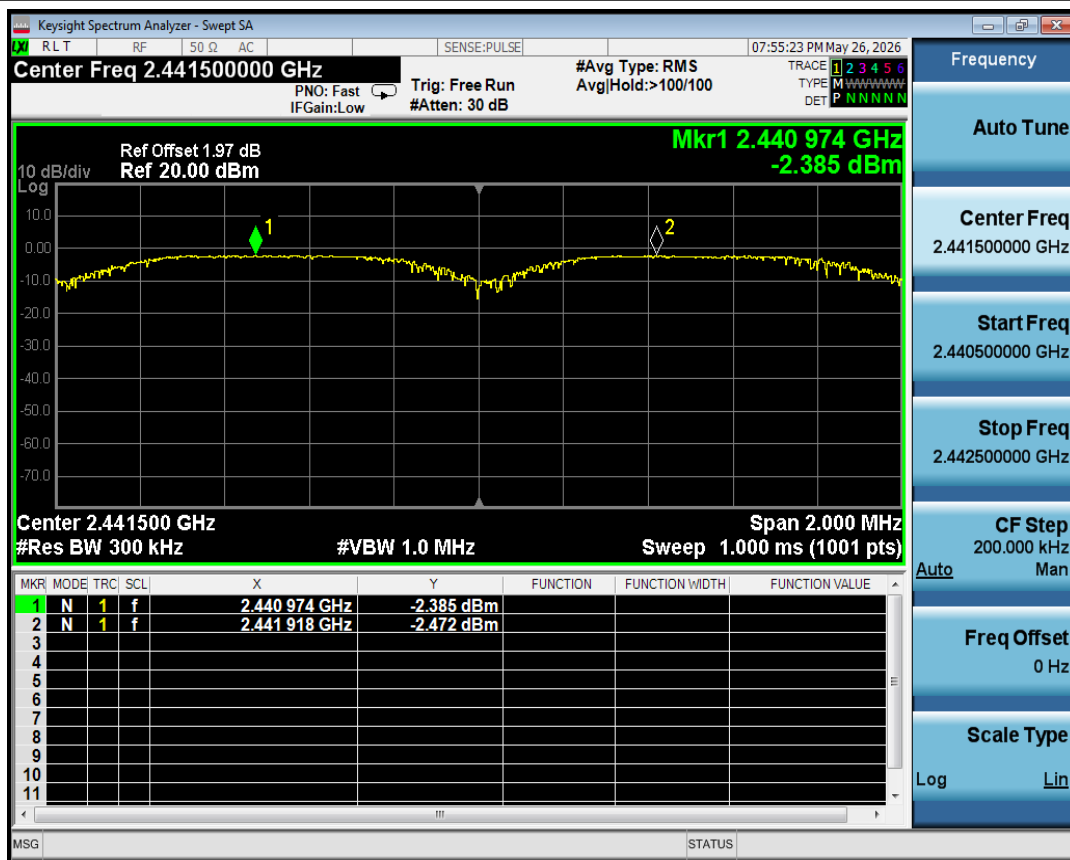


Carrier Frequencies Separation

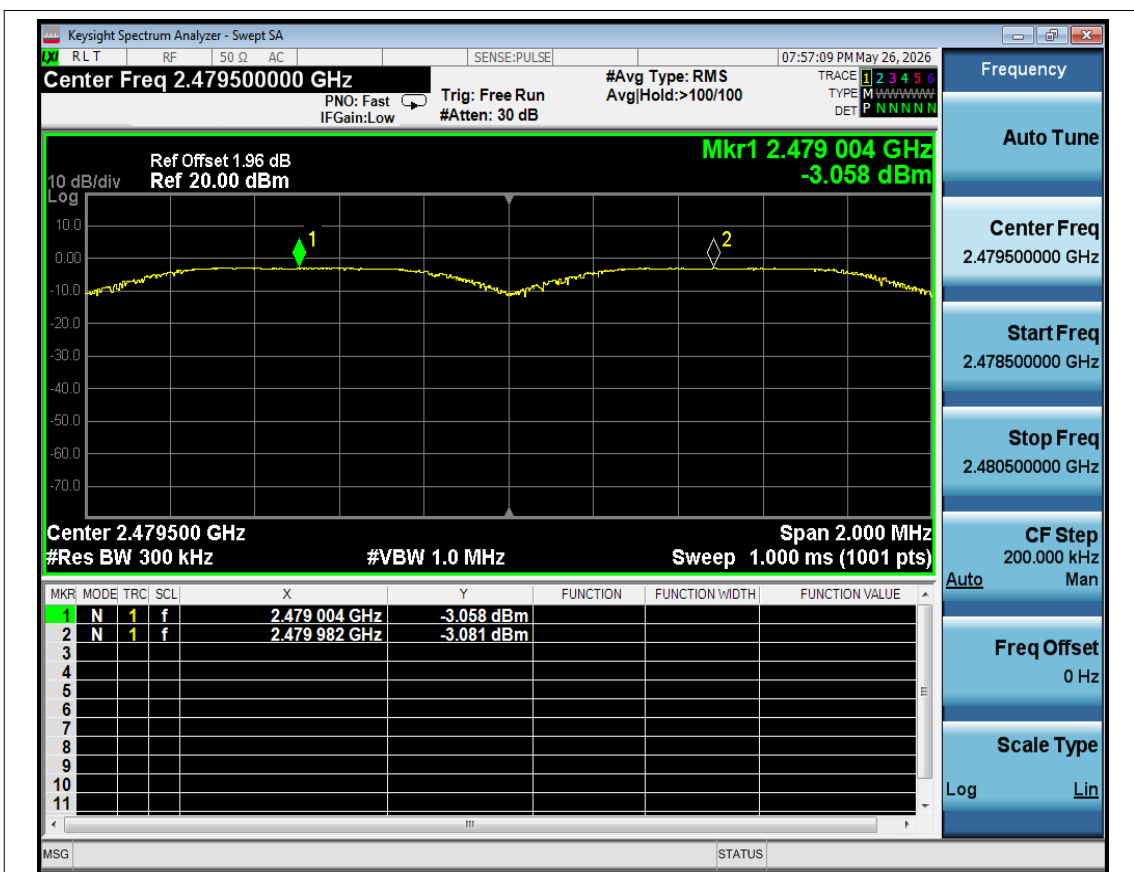
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2401.76	2402.984	1.224	0.683	Pass
NVNT	1-DH1	Ant1	2440.974	2441.918	0.944	0.689	Pass
NVNT	1-DH1	Ant1	2479.004	2479.982	0.978	0.691	Pass
NVNT	2-DH1	Ant1	2401.758	2402.998	1.24	0.851	Pass
NVNT	2-DH1	Ant1	2440.994	2441.996	1.002	0.859	Pass
NVNT	2-DH1	Ant1	2478.89	2480.016	1.126	0.849	Pass
NVNT	3-DH1	Ant1	2401.754	2402.992	1.238	0.827	Pass
NVNT	3-DH1	Ant1	2440.996	2442.01	1.014	0.839	Pass
NVNT	3-DH1	Ant1	2478.956	2479.978	1.022	0.836	Pass



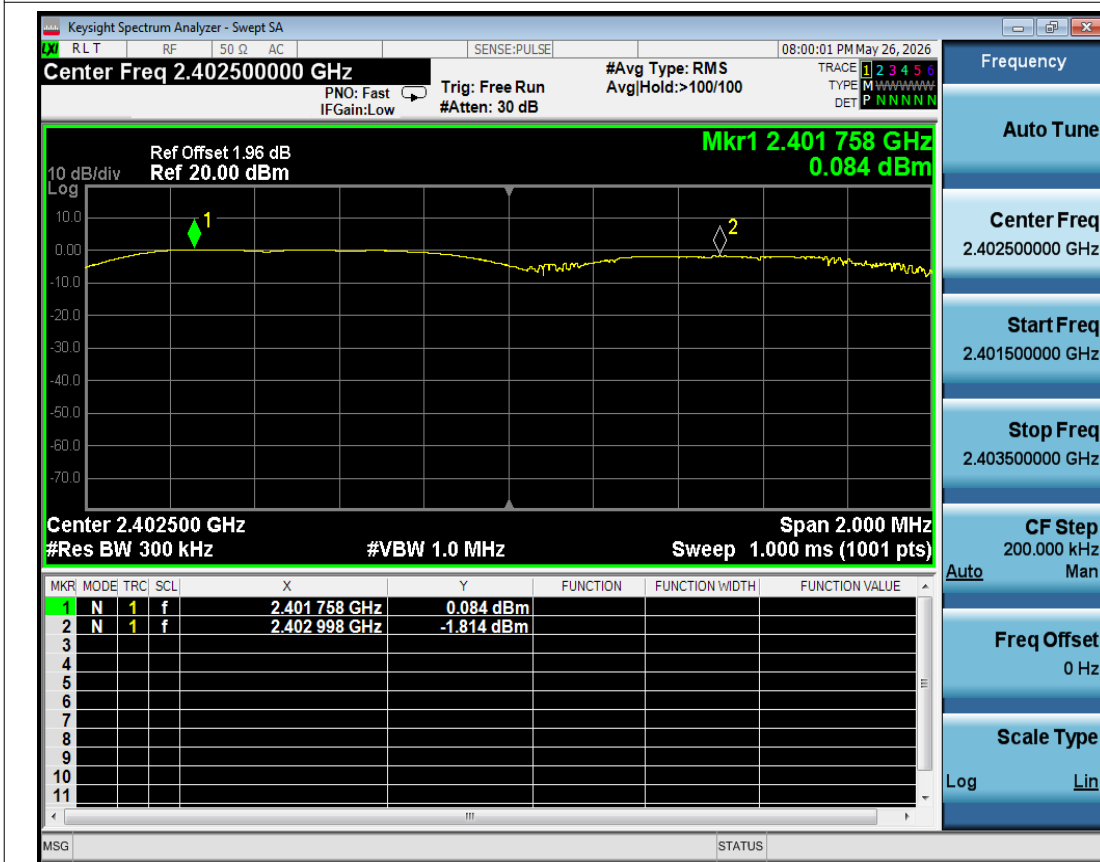
CFS NVNT 1-DH1 2402MHz Ant1



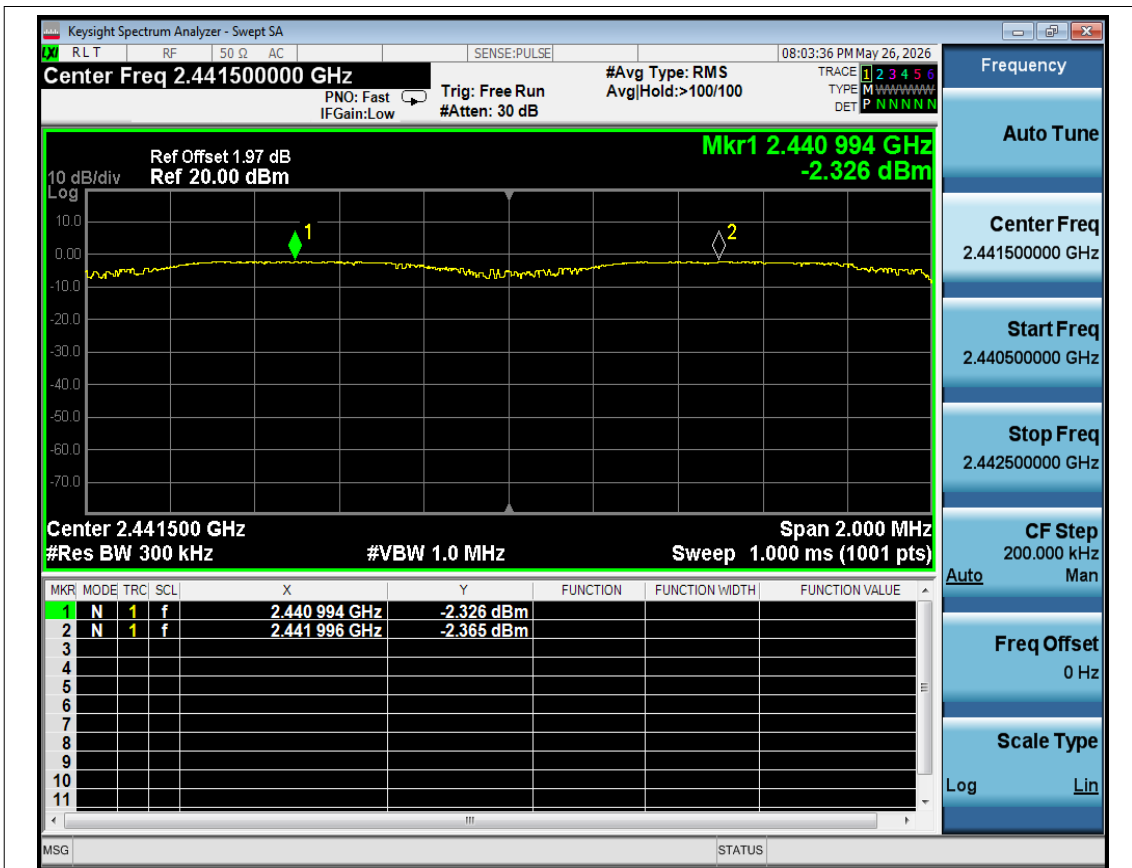
CFS NVNT 1-DH1 2441MHz Ant1



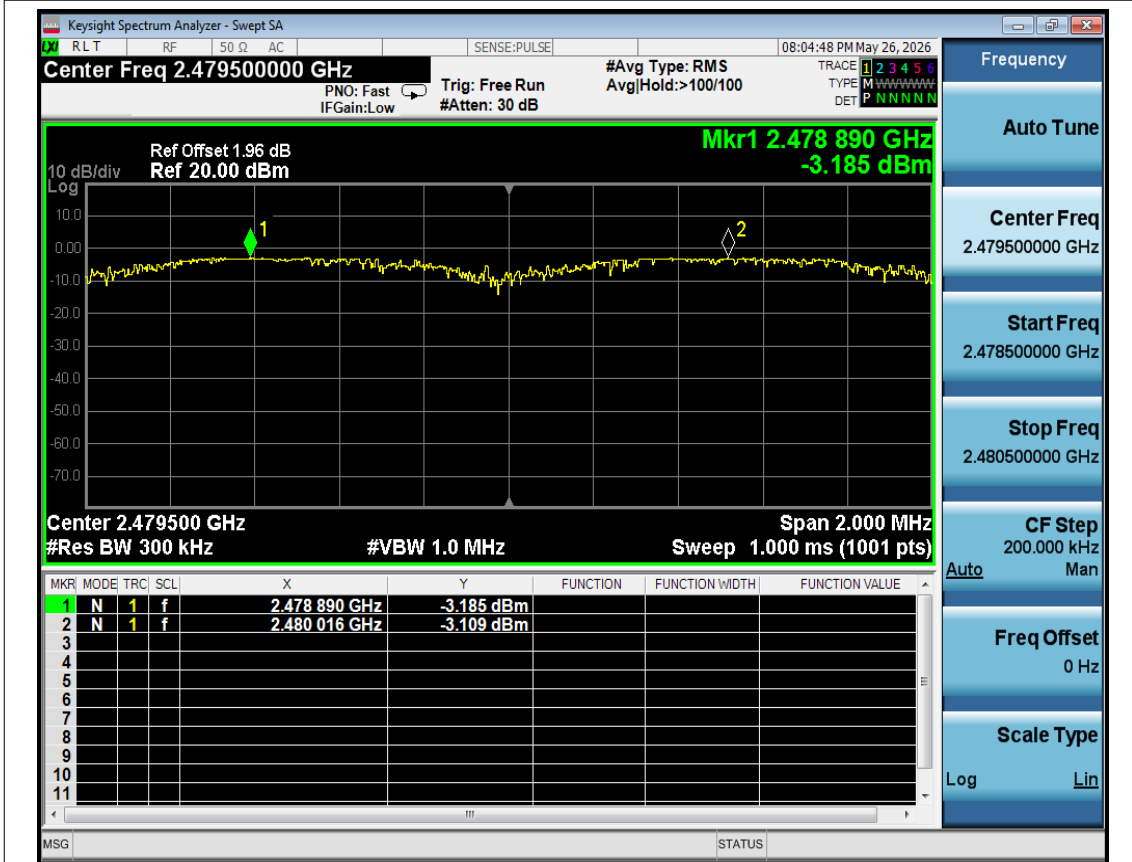
CFS NVNT 1-DH1 2480MHz Ant1



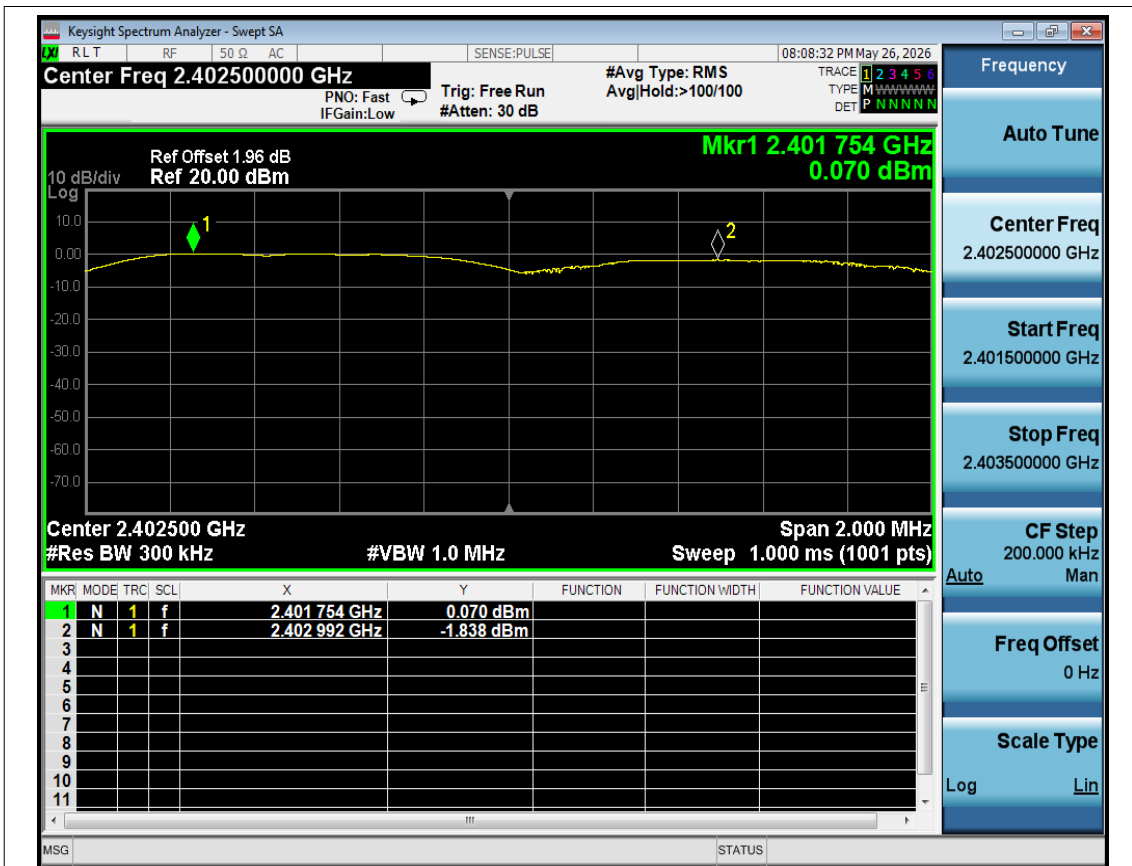
CFS NVNT 2-DH1 2402MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



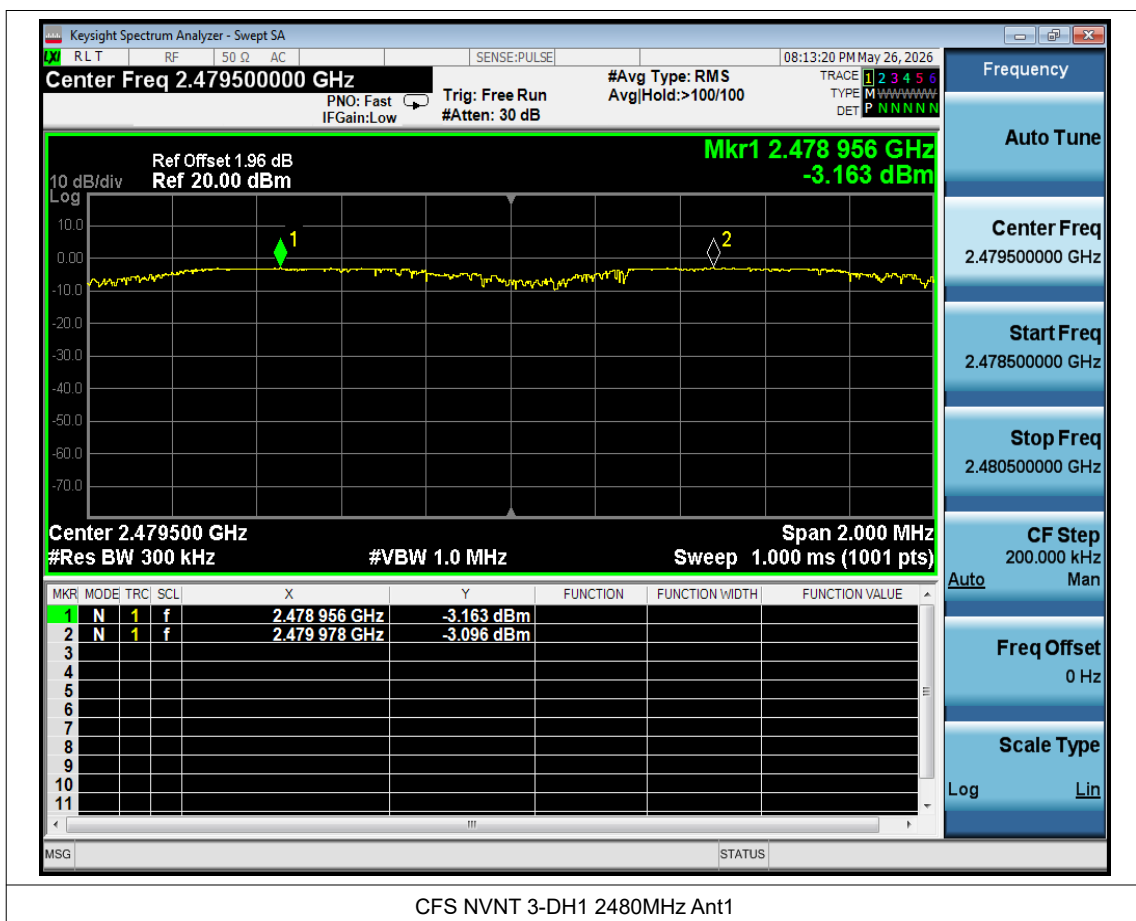
CFS NVNT 2-DH1 2480MHz Ant1



CFS NVNT 3-DH1 2402MHz Ant1

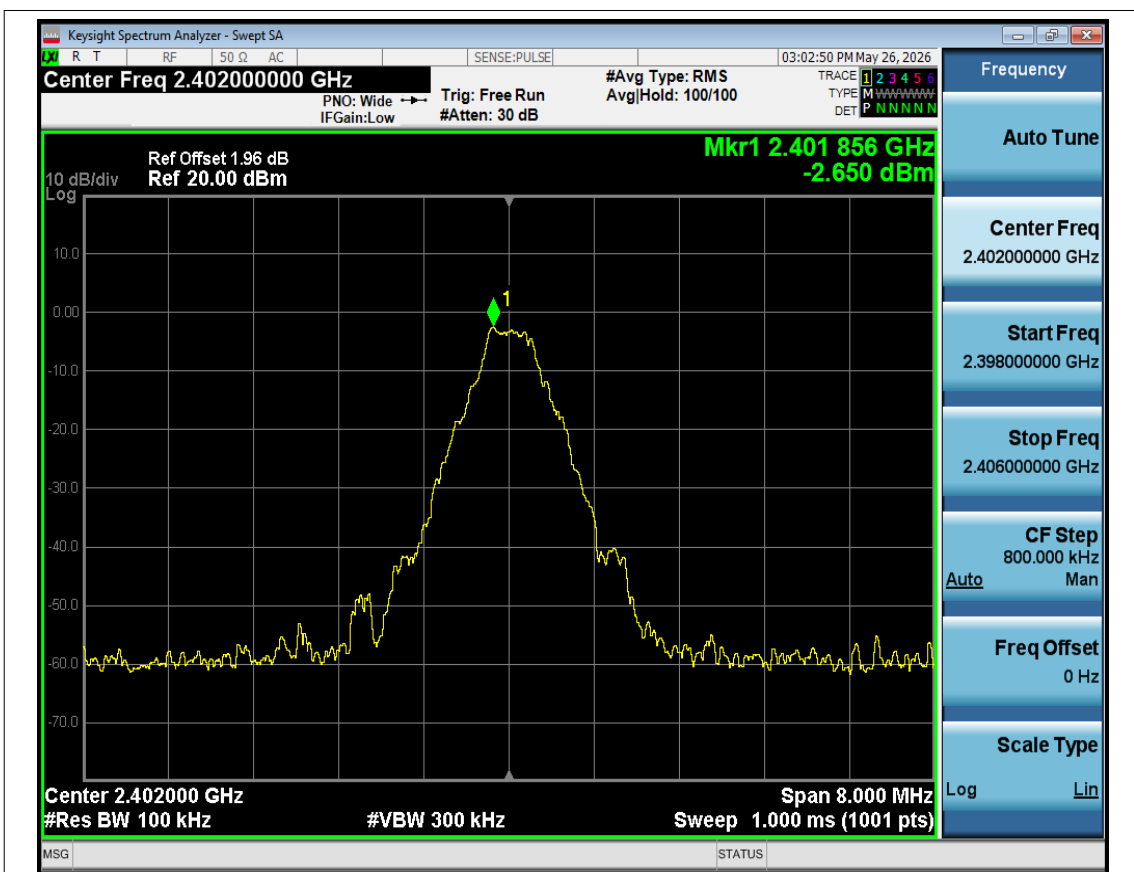


CFS NVNT 3-DH1 2441MHz Ant1

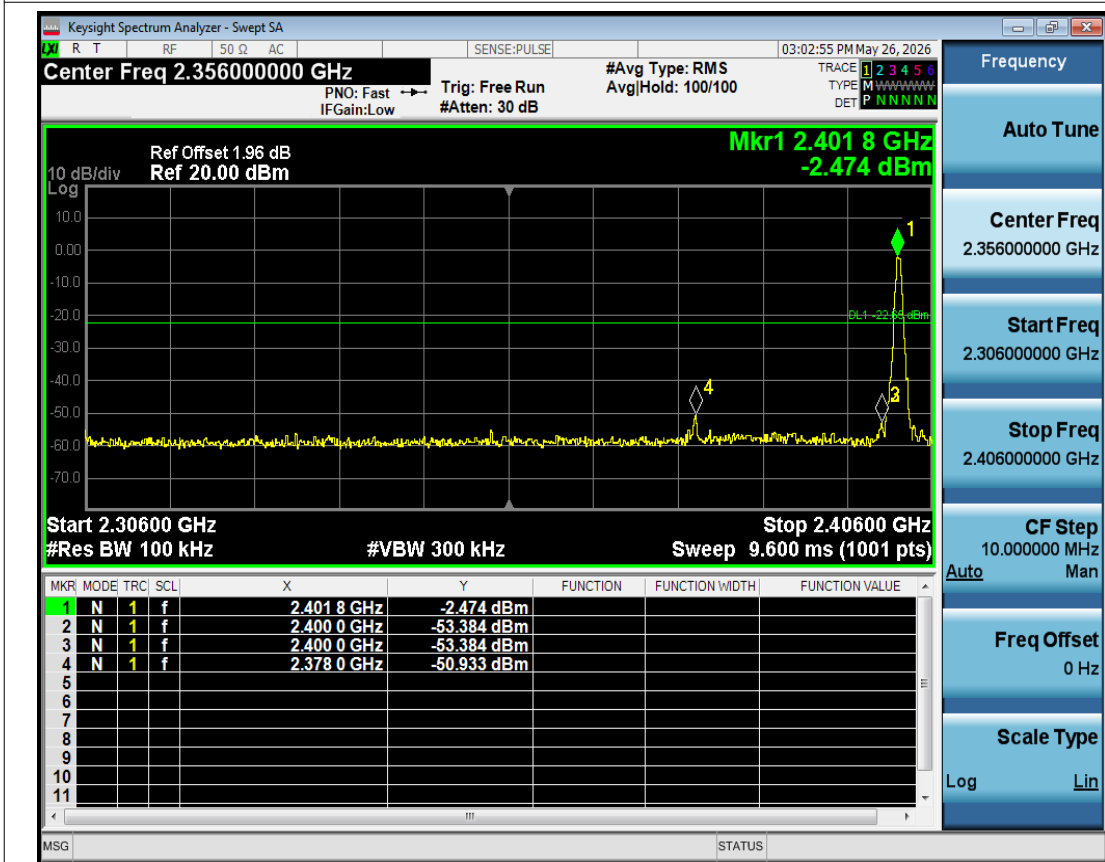


Band Edge

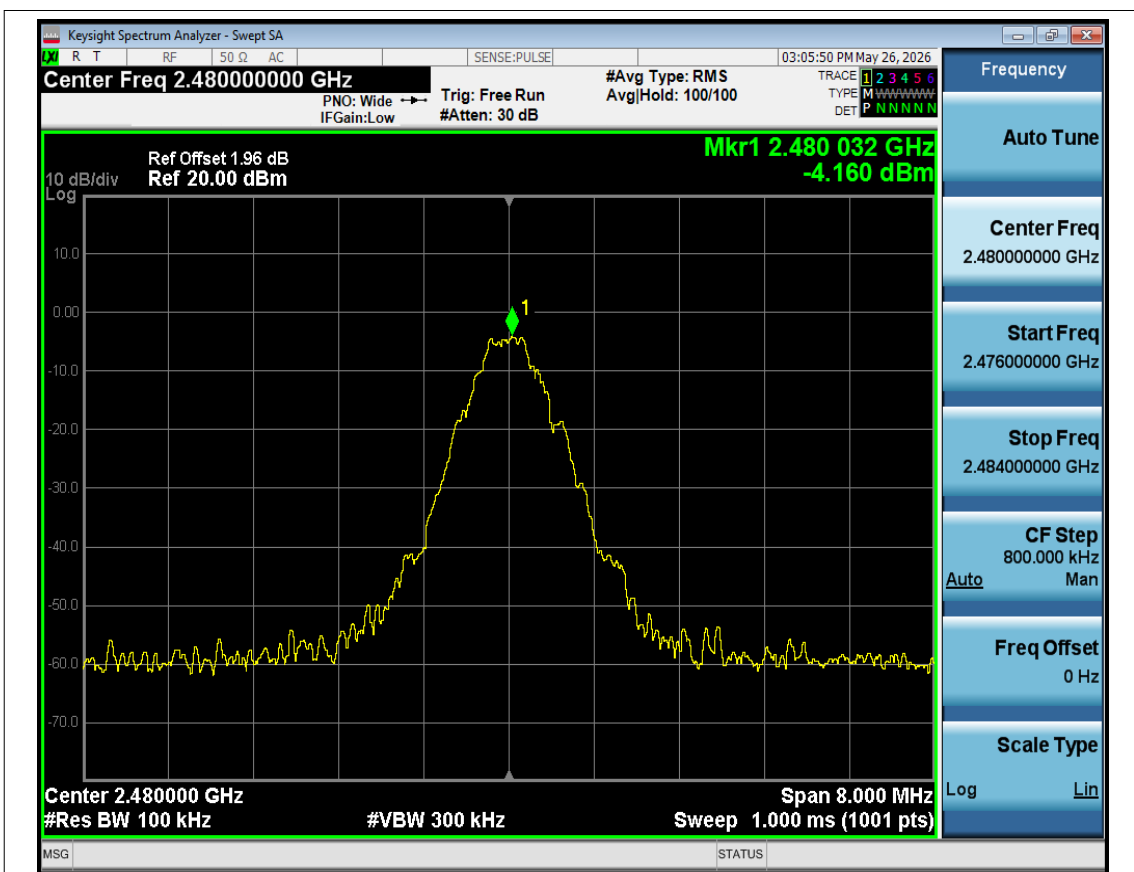
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-48.28	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-51.56	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-49.12	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-51.52	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-48.67	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-50.83	-20	Pass



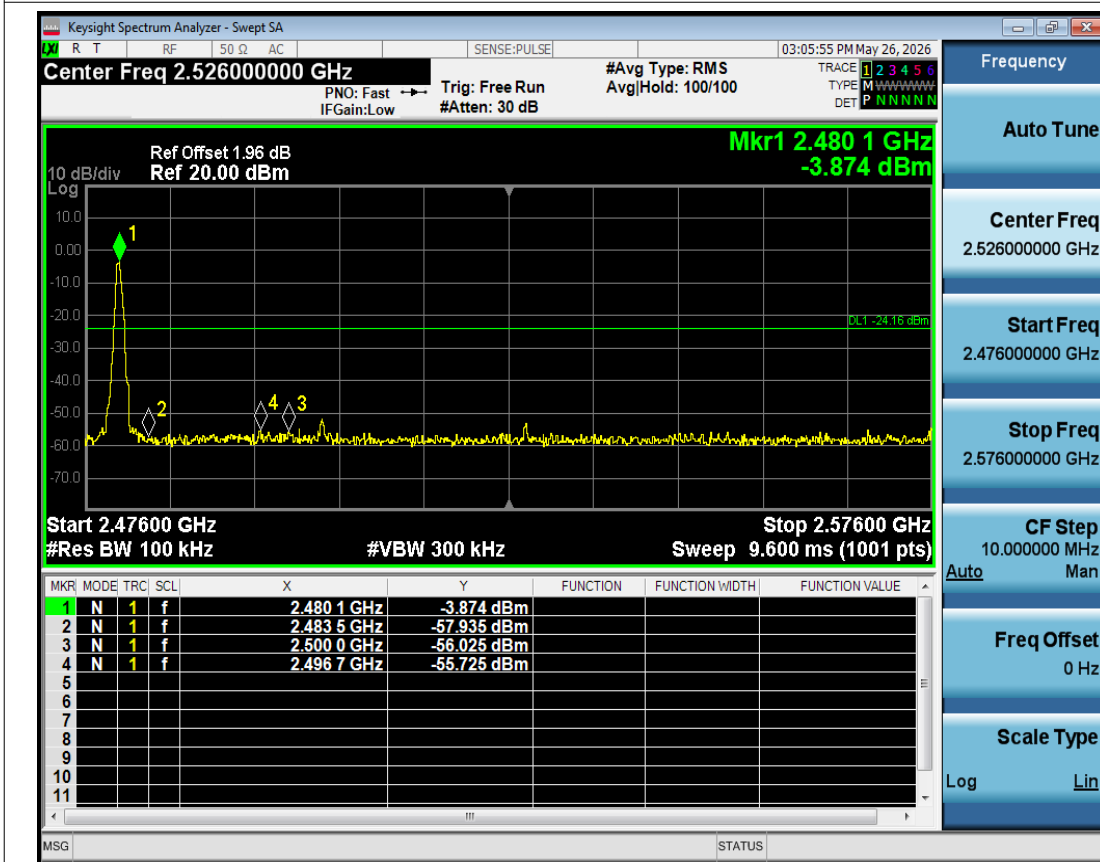
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



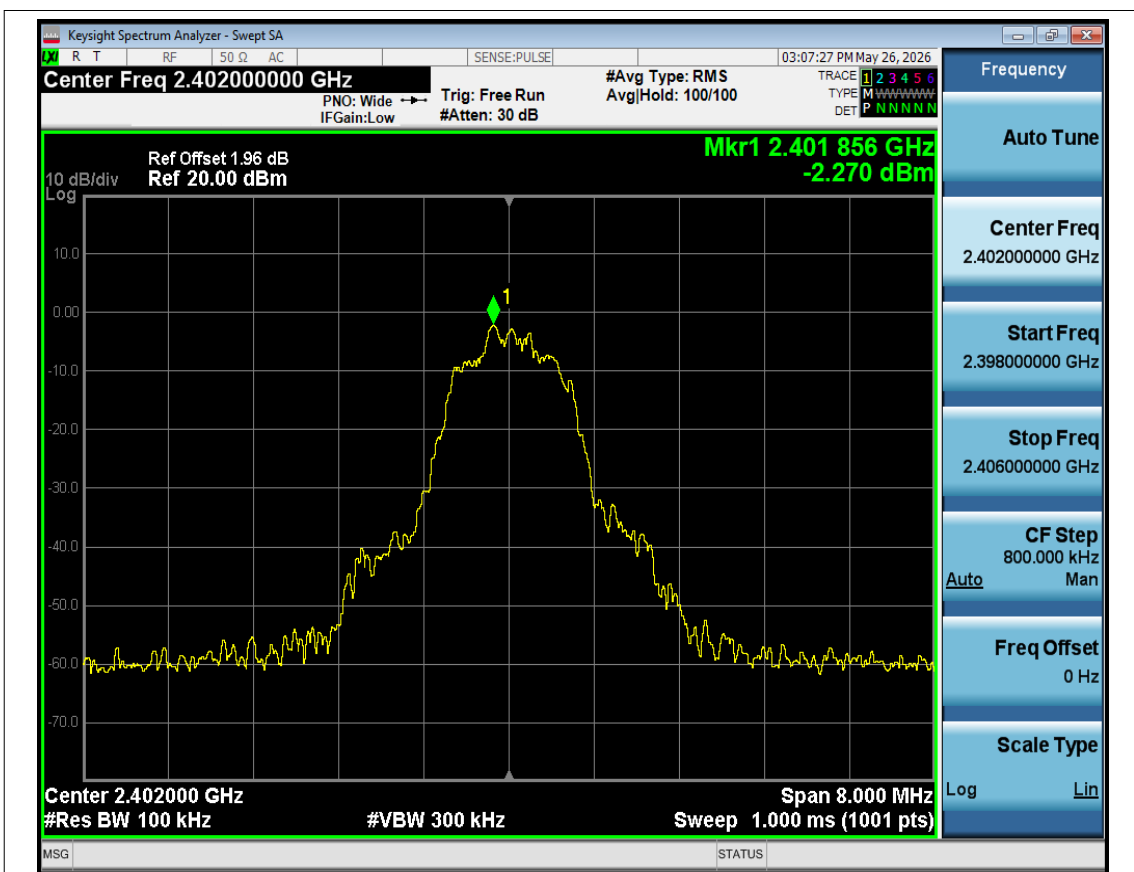
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



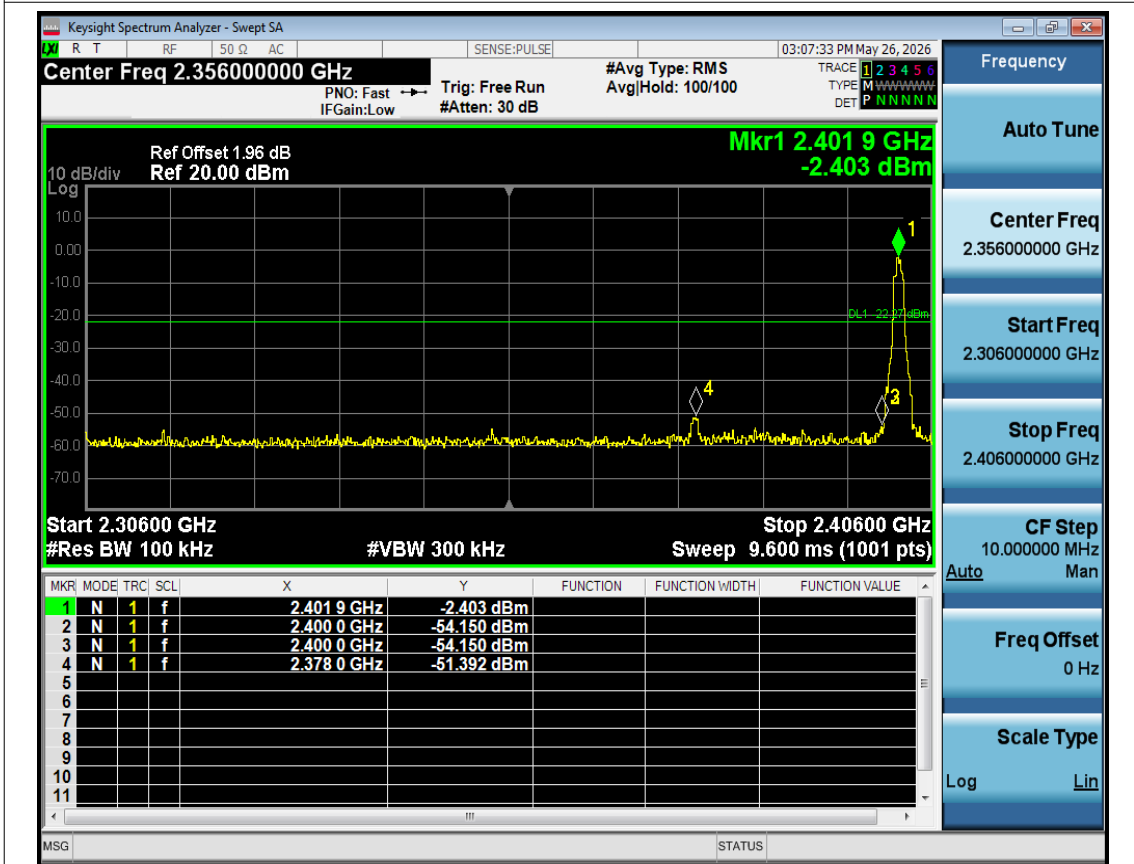
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



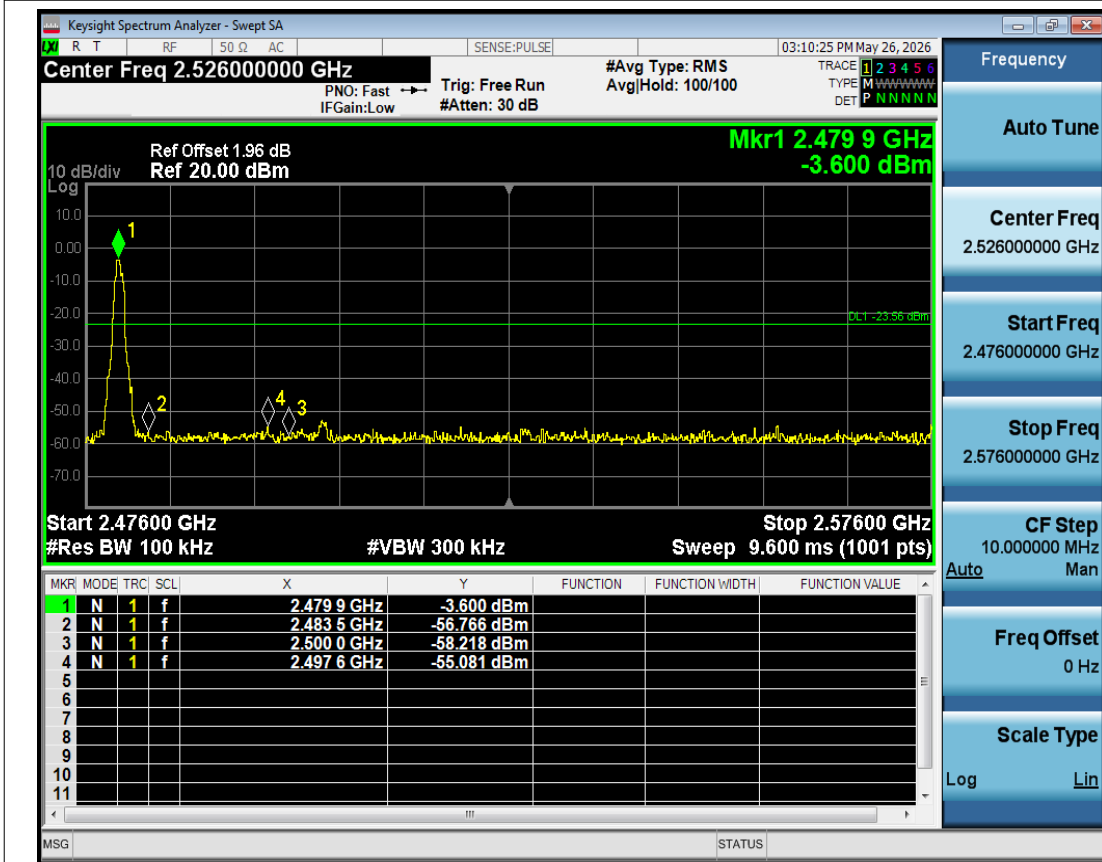
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



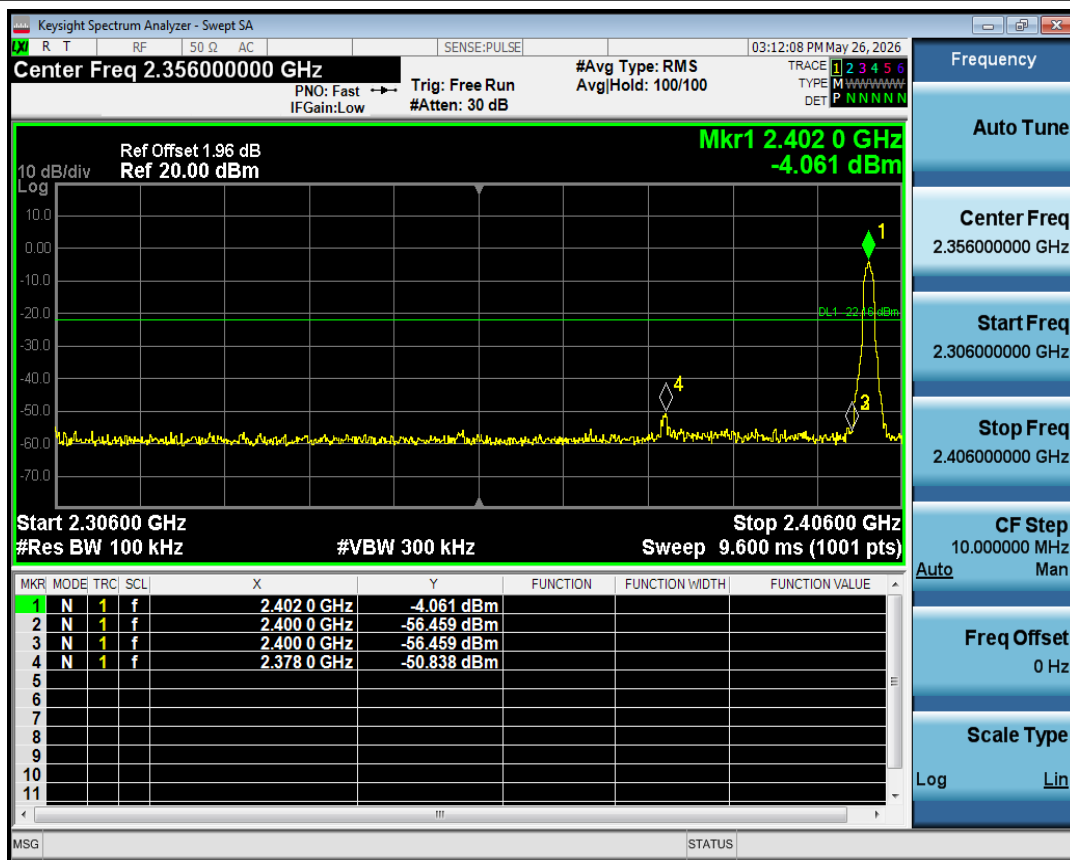
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



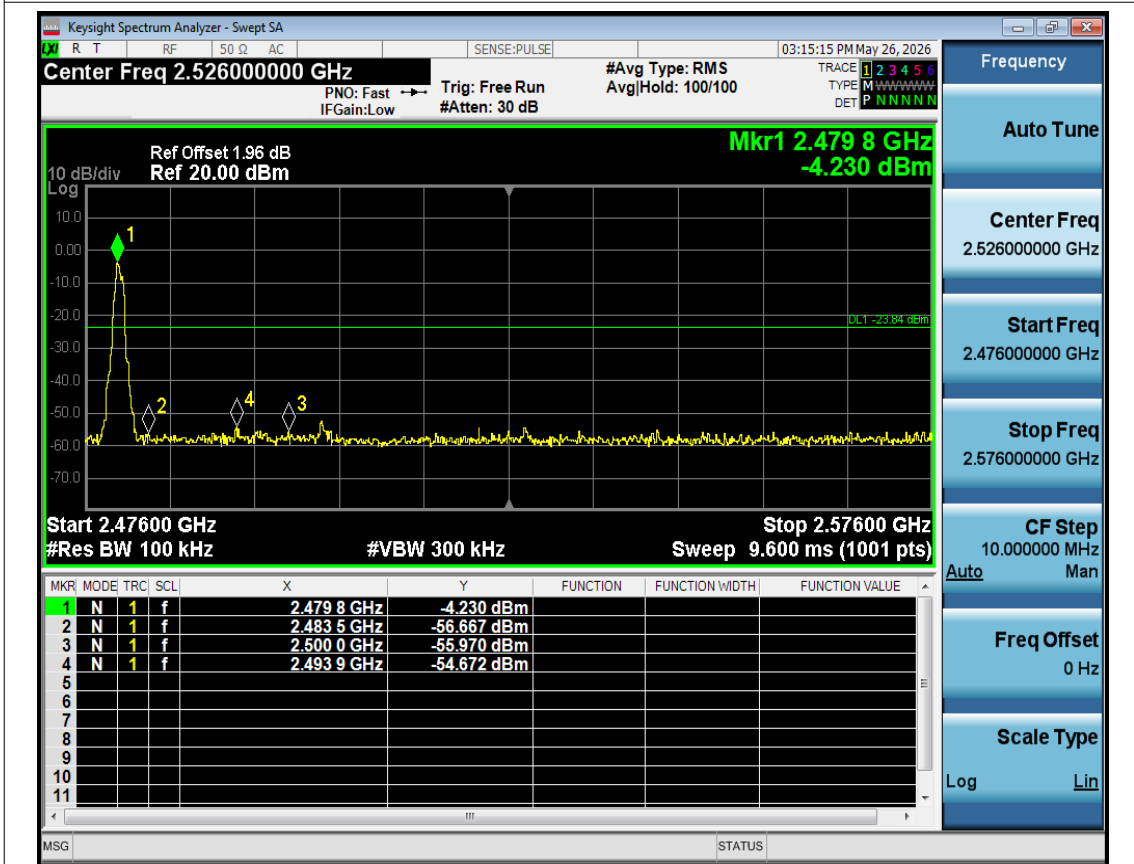
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Ref



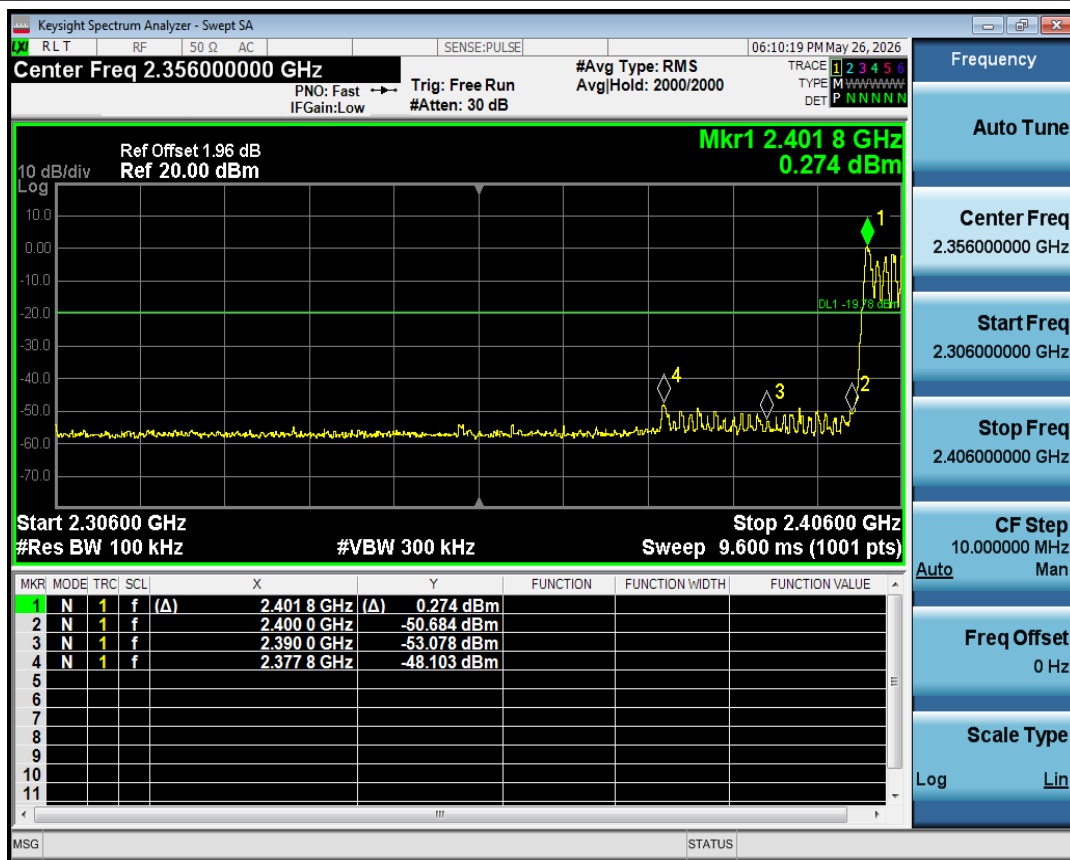
Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission

Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-48.32	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-47.47	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-48.58	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-47.52	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-48.03	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-48.34	-20	Pass



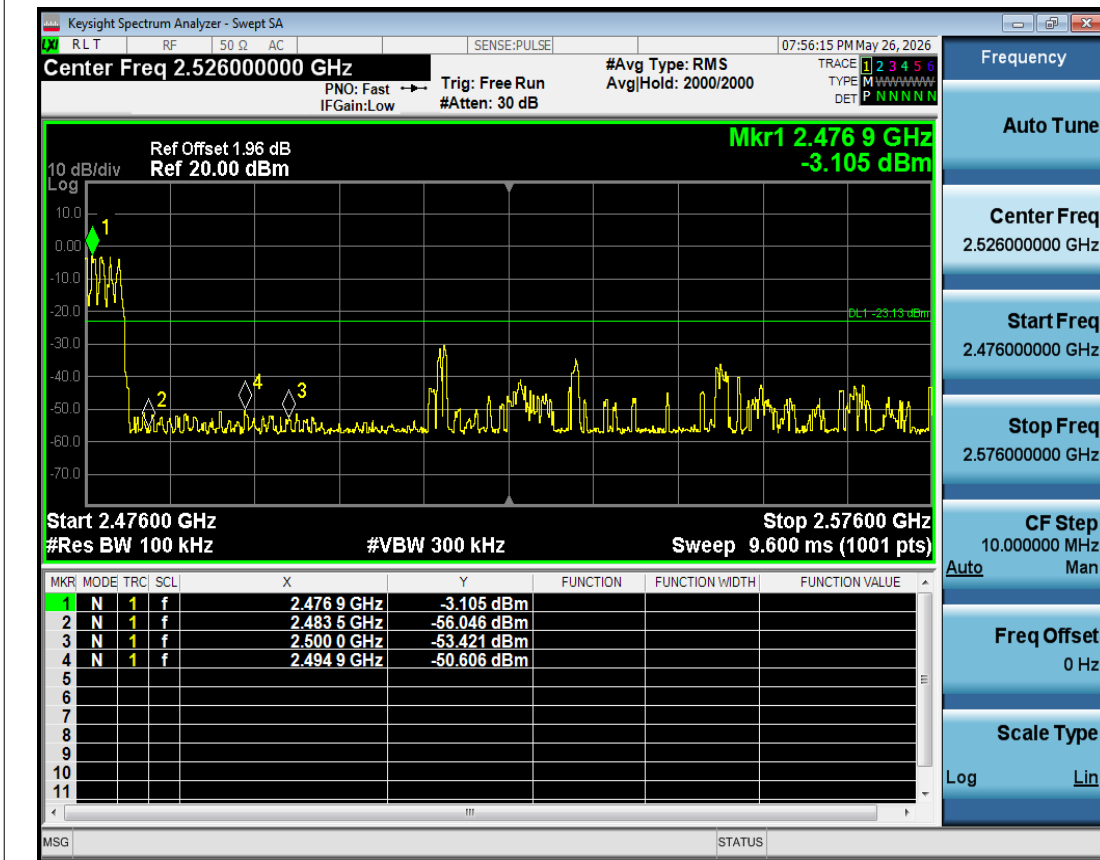
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



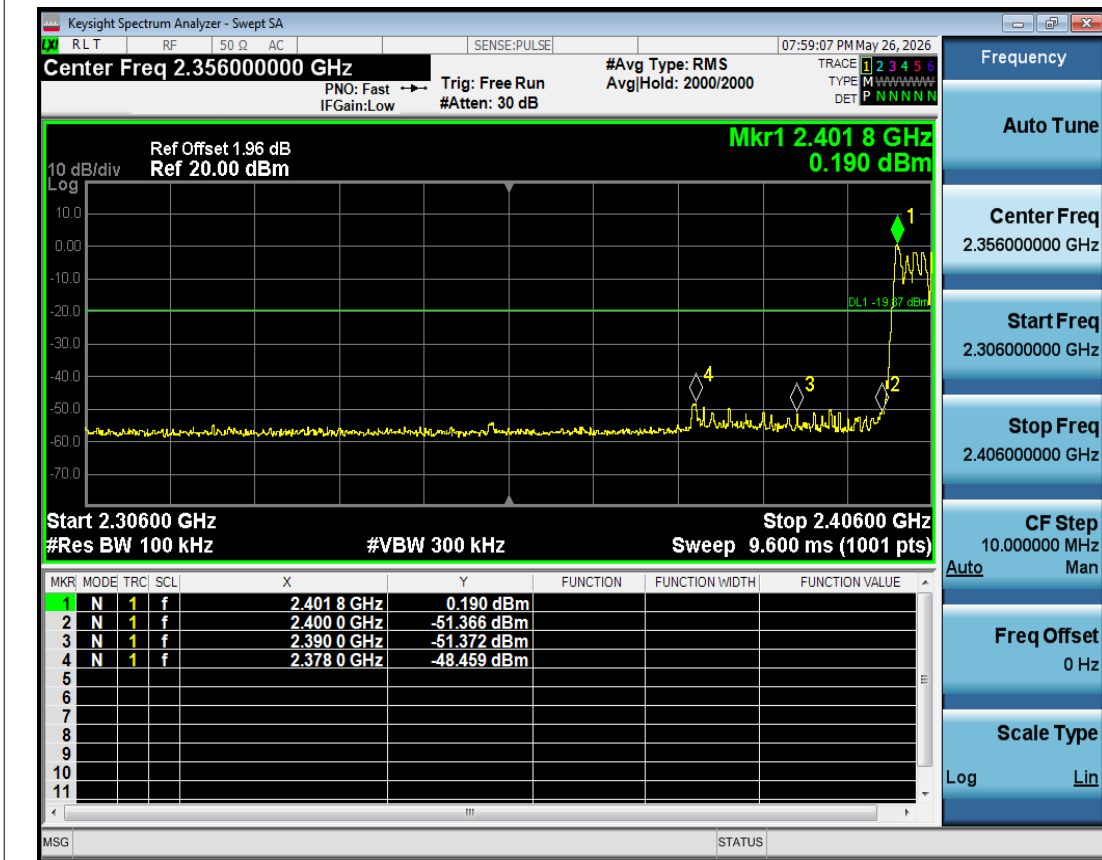
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



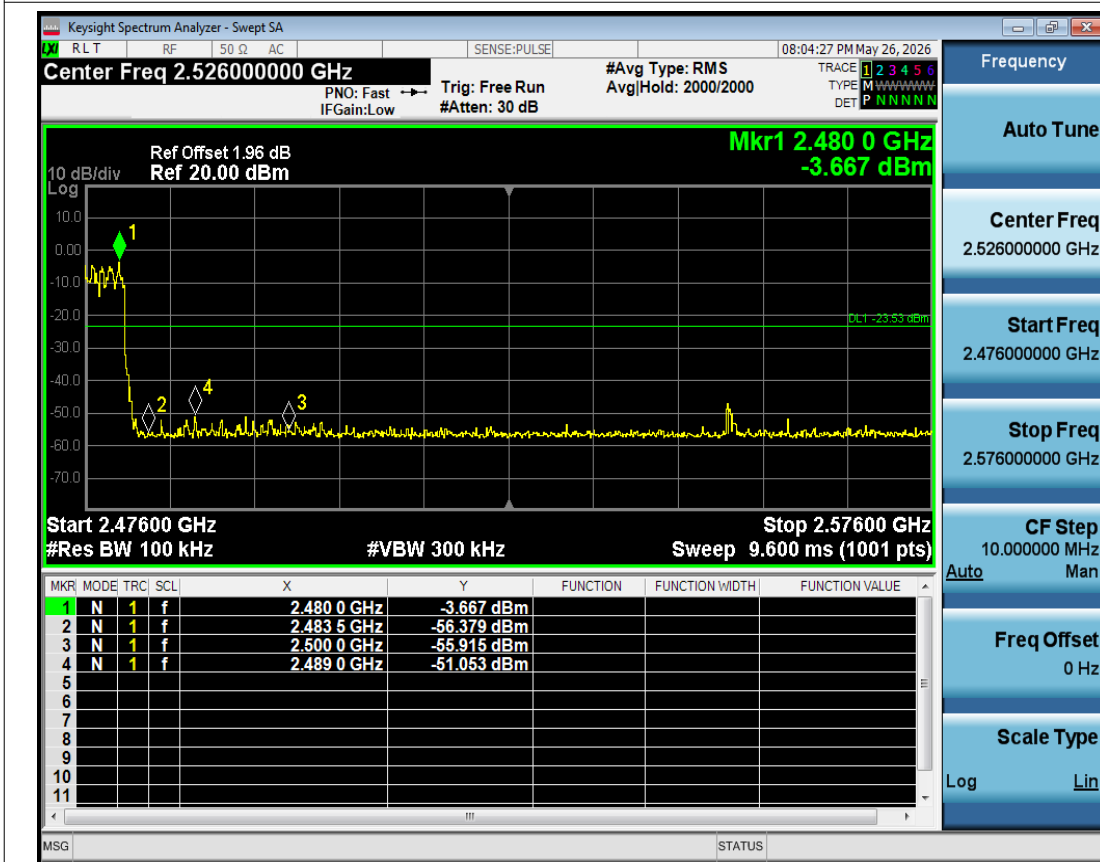
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



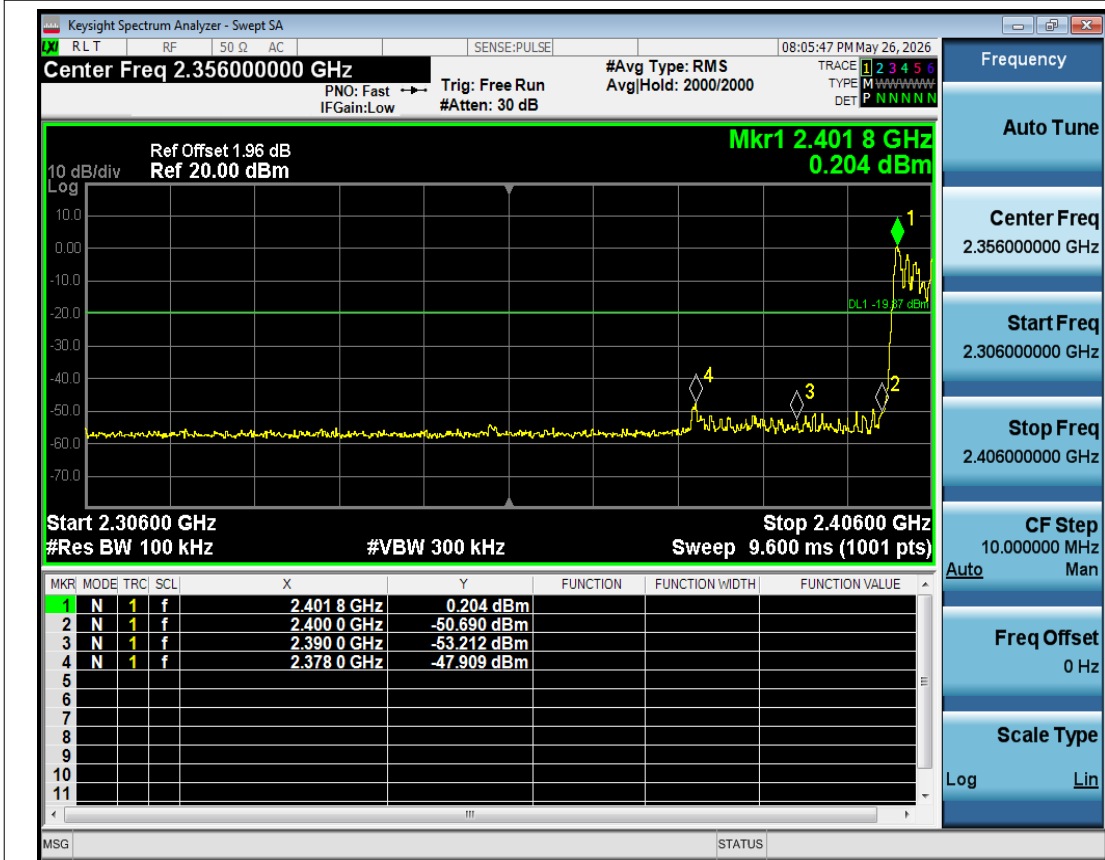
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



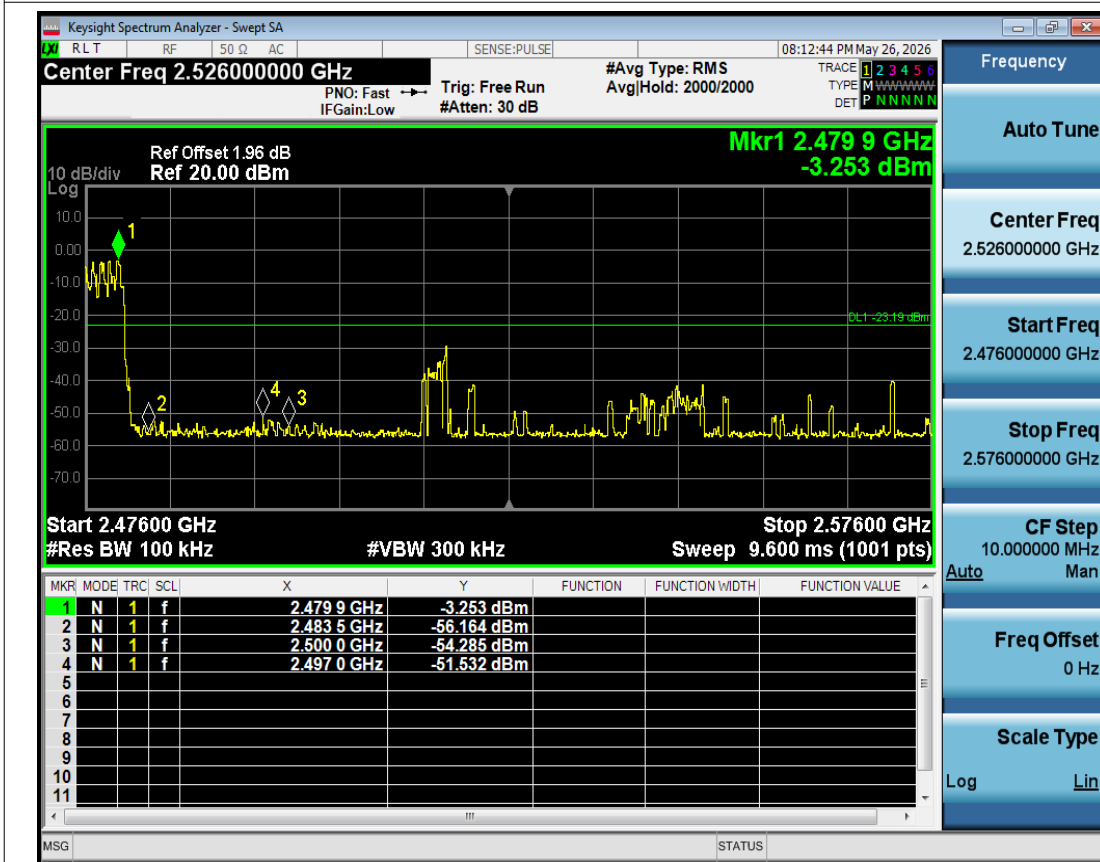
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



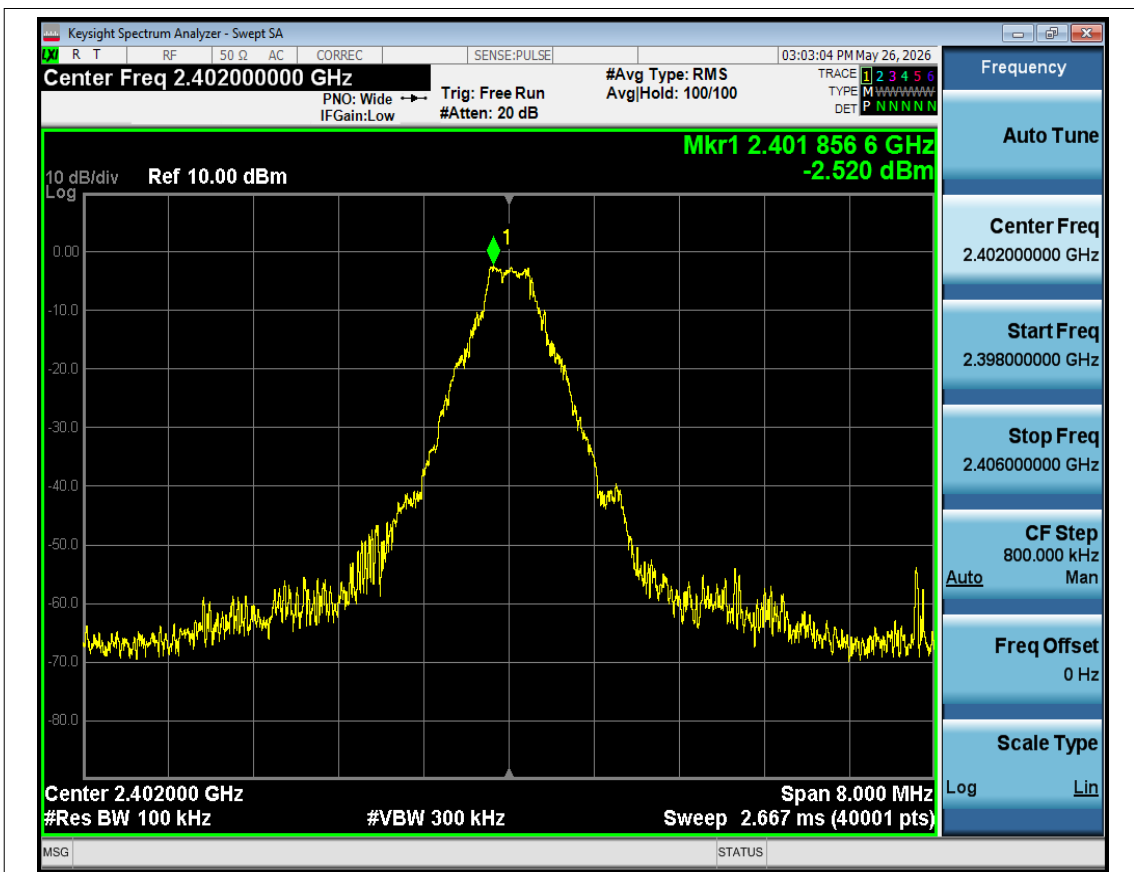
Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Ref



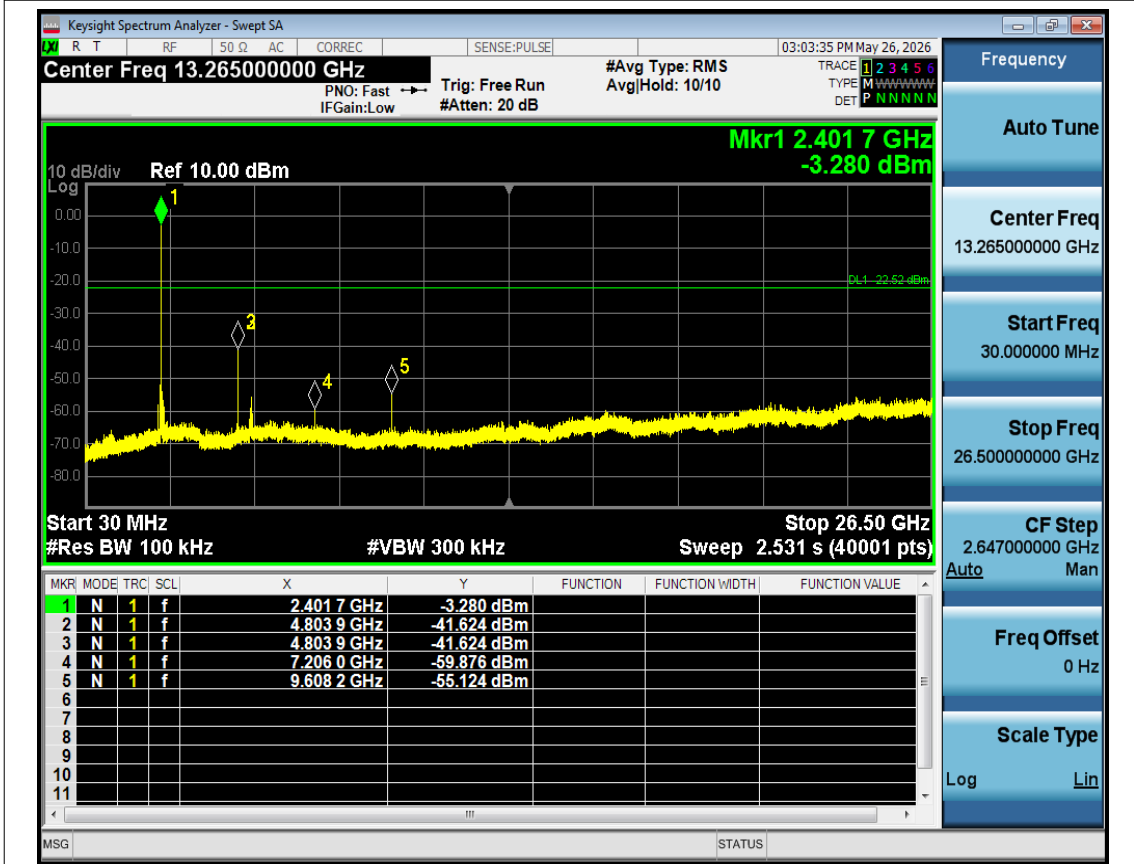
Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Emission

Conducted RF Spurious Emission

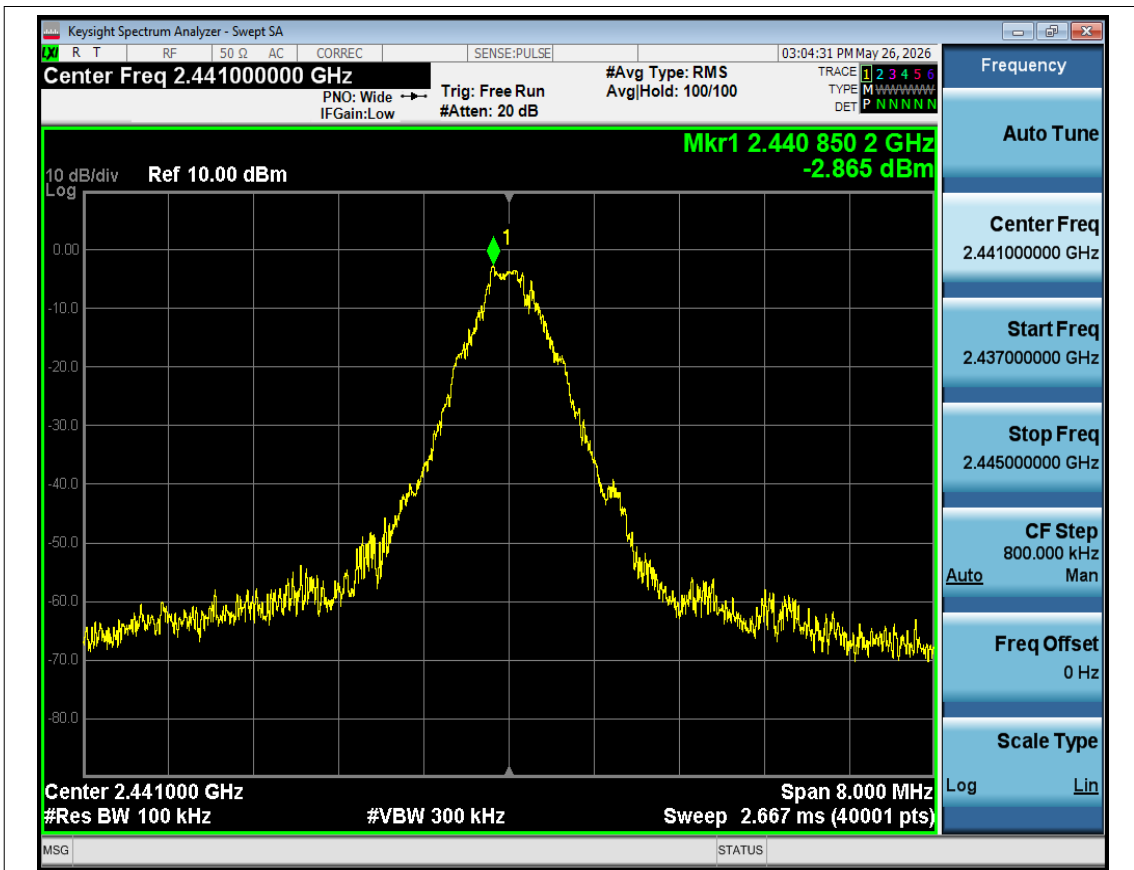
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-39.1	-20	Pass
NVNT	1-DH1	2441	Ant1	-42.48	-20	Pass
NVNT	1-DH1	2480	Ant1	-40.5	-20	Pass
NVNT	2-DH1	2402	Ant1	-42.75	-20	Pass
NVNT	2-DH1	2441	Ant1	-36.66	-20	Pass
NVNT	2-DH1	2480	Ant1	-39.16	-20	Pass
NVNT	3-DH1	2402	Ant1	-39.99	-20	Pass
NVNT	3-DH1	2441	Ant1	-37.54	-20	Pass
NVNT	3-DH1	2480	Ant1	-35.53	-20	Pass



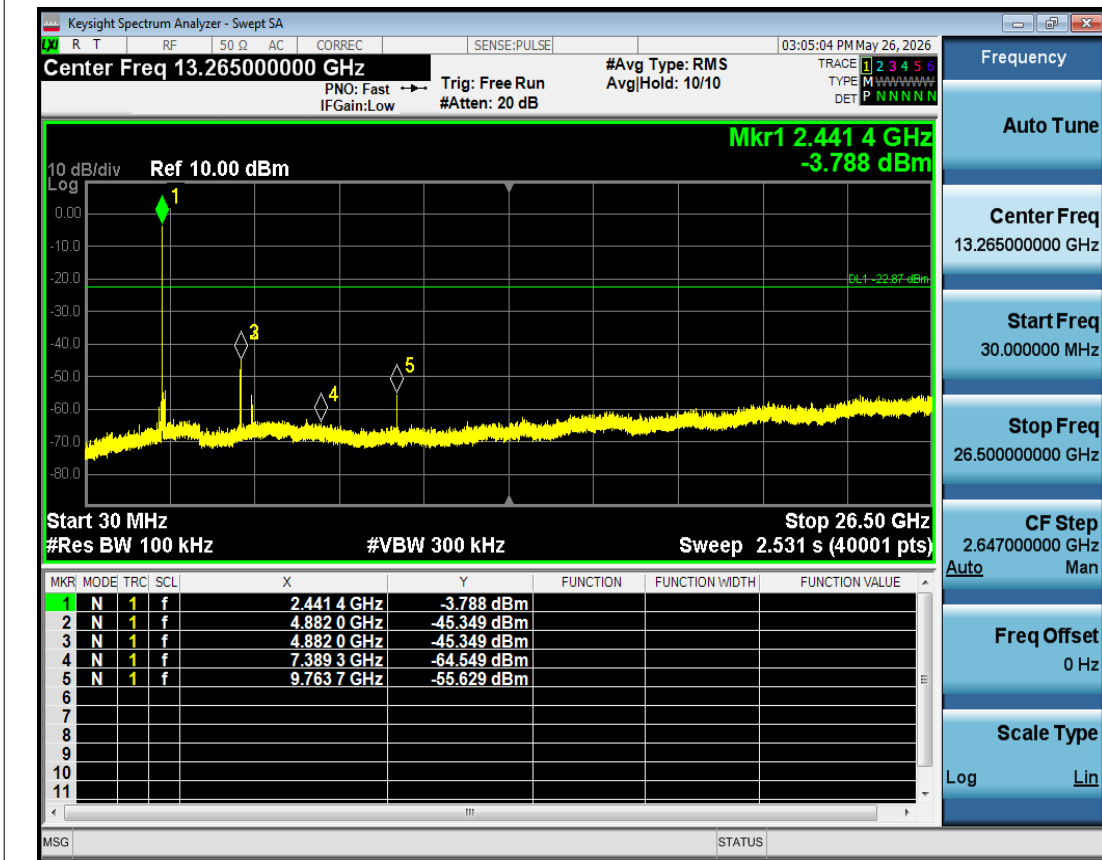
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



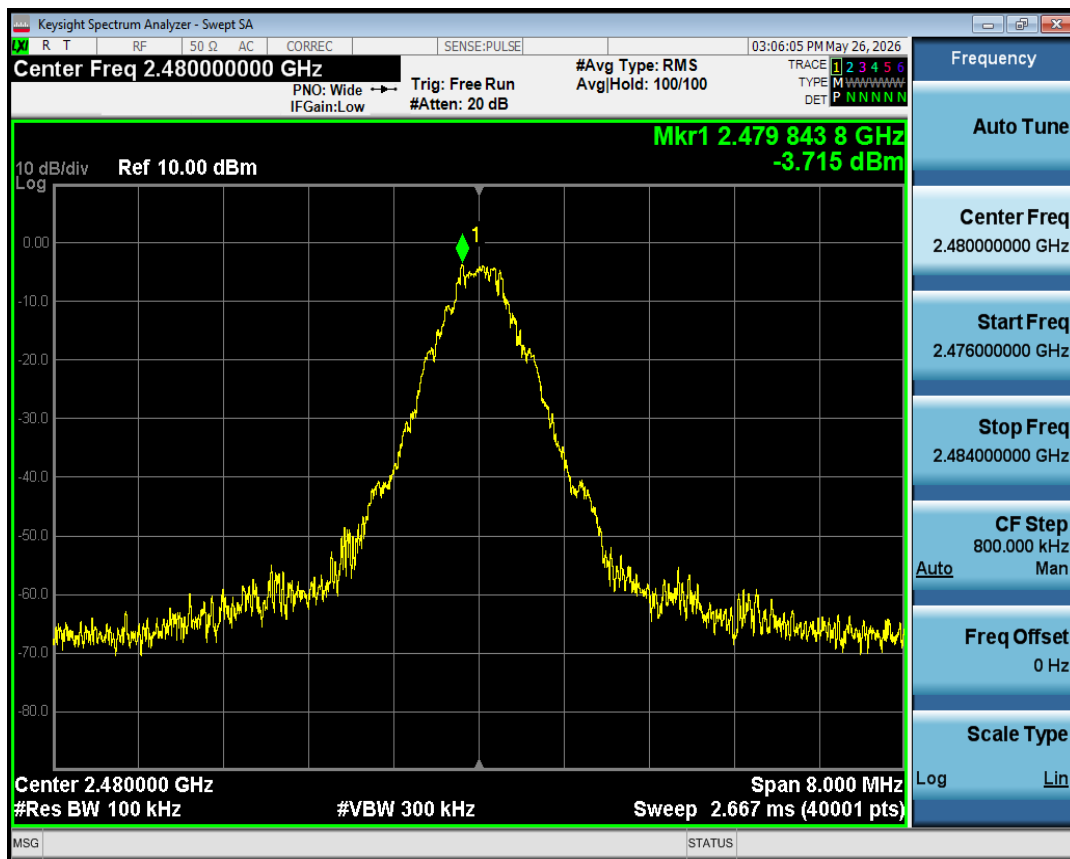
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



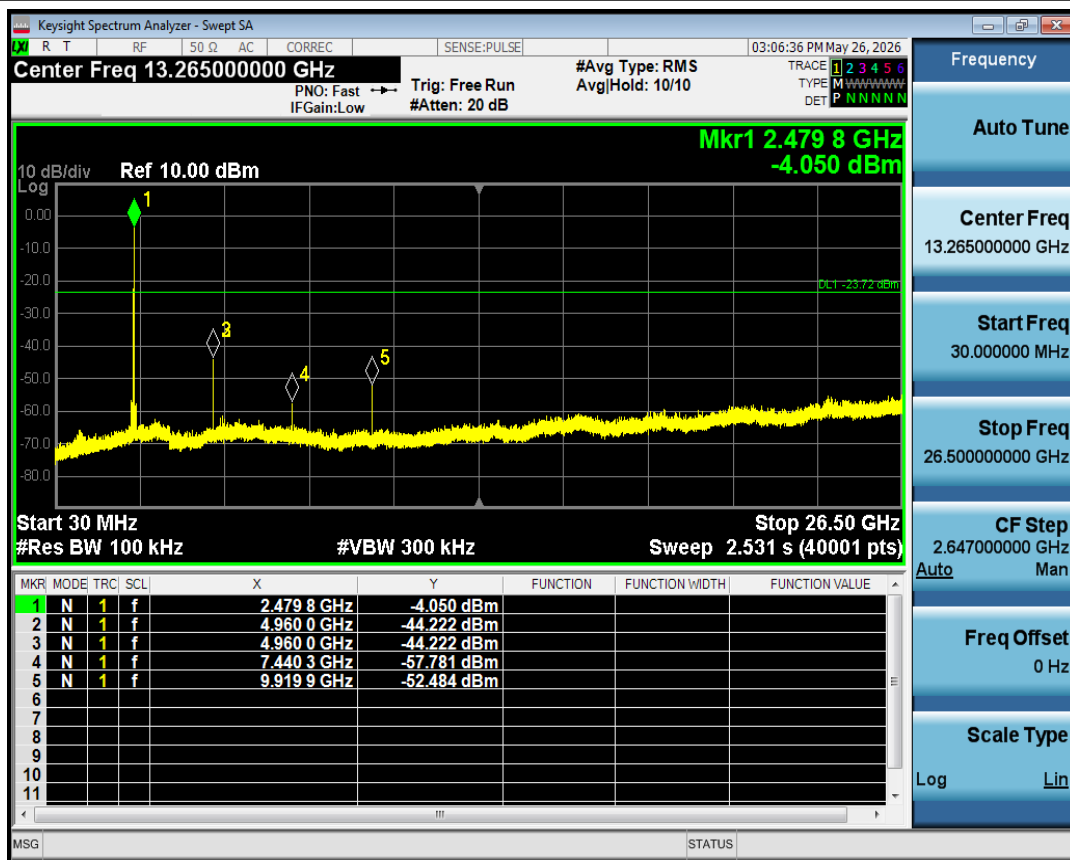
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



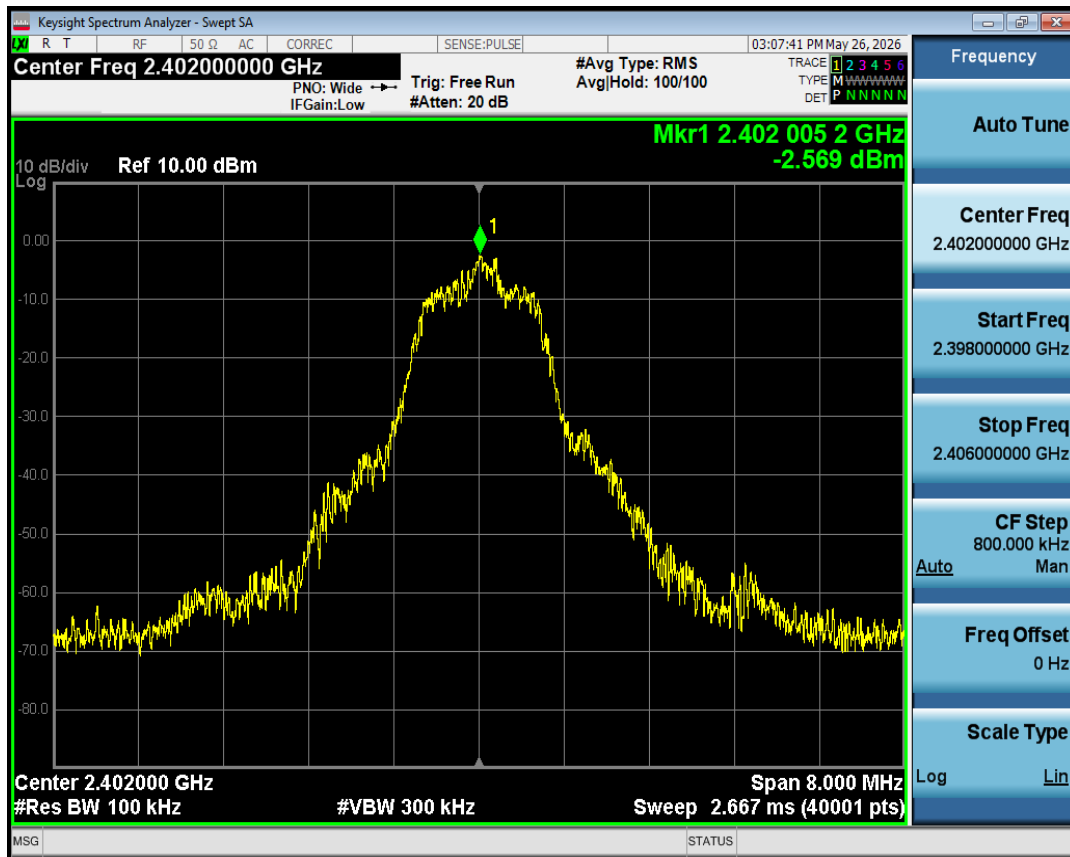
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



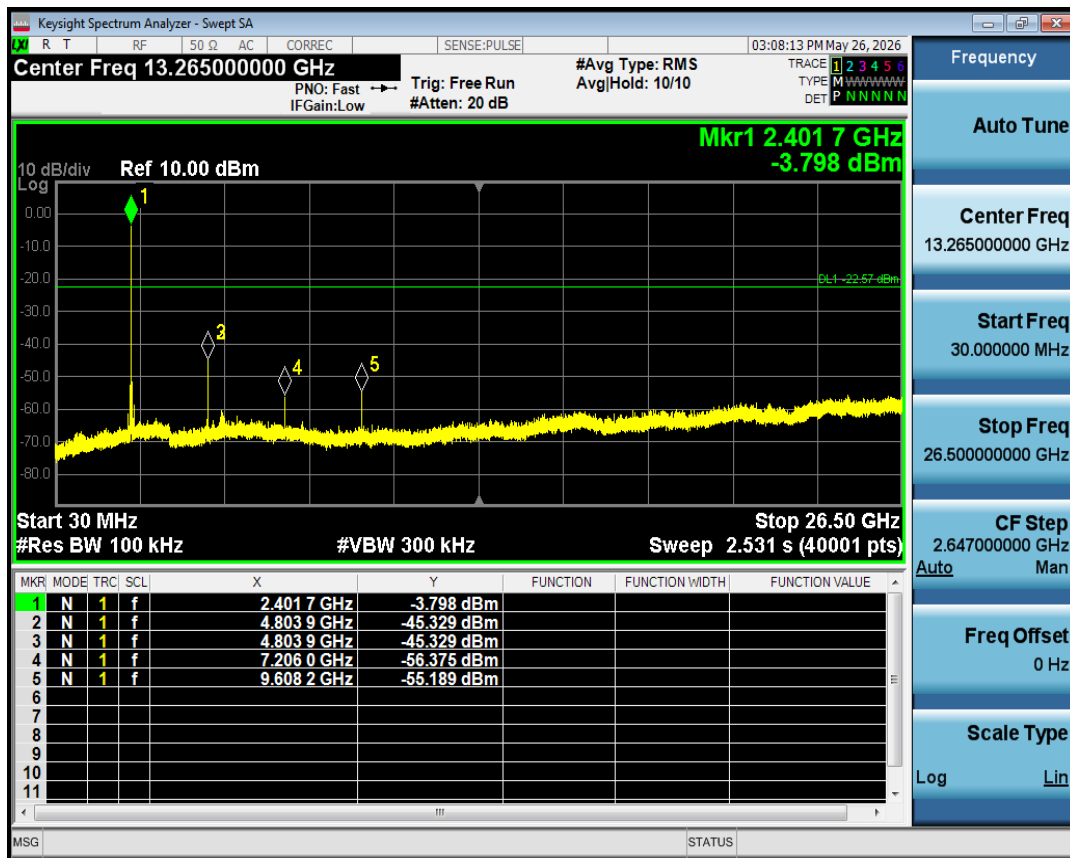
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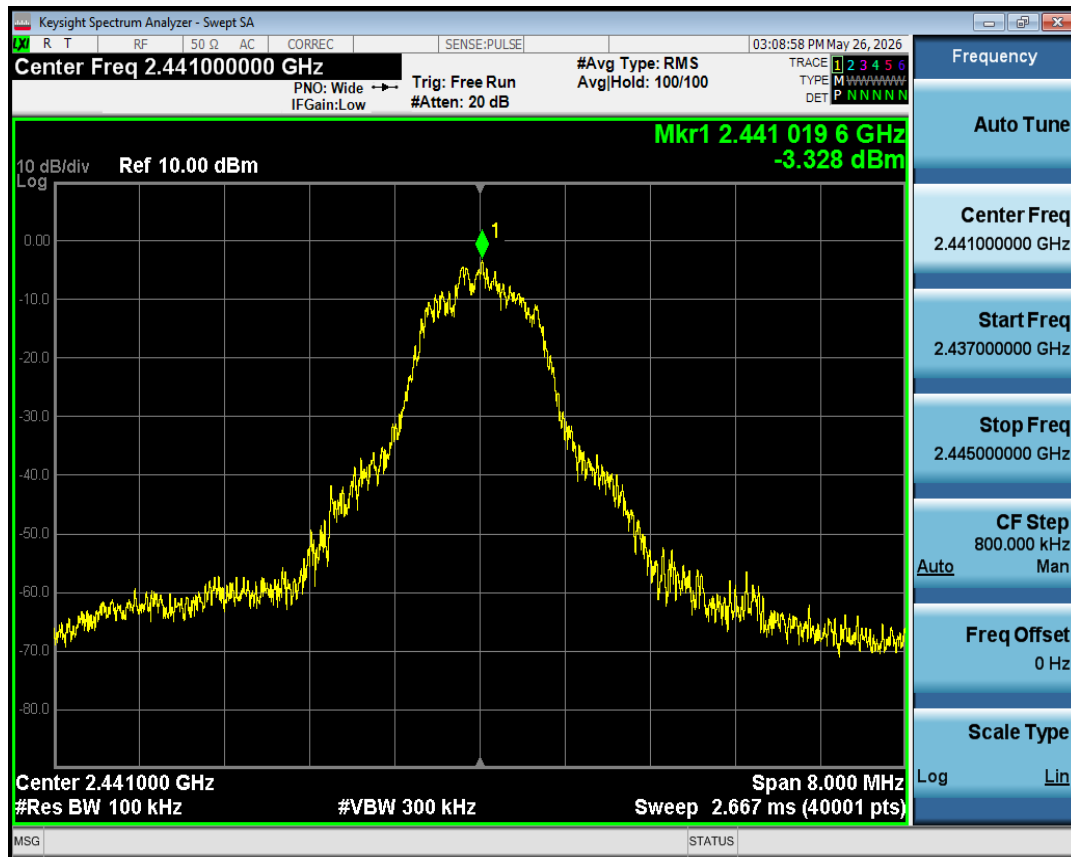
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



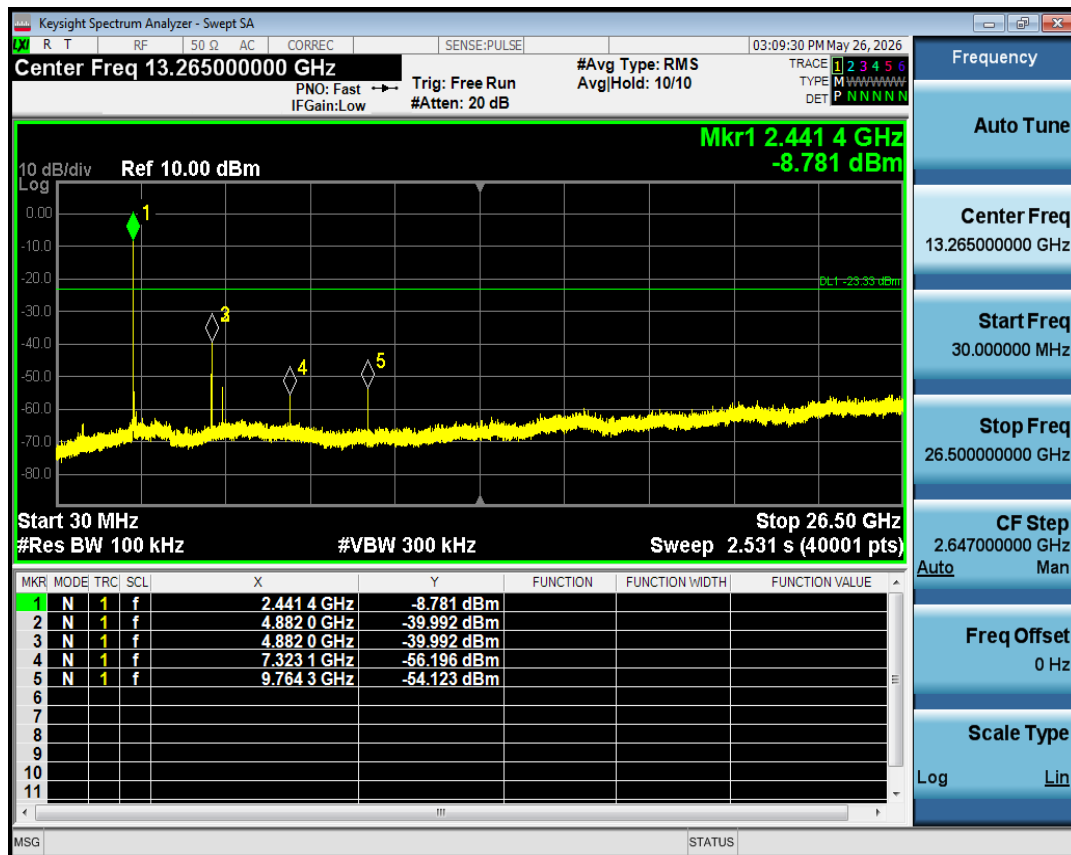
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



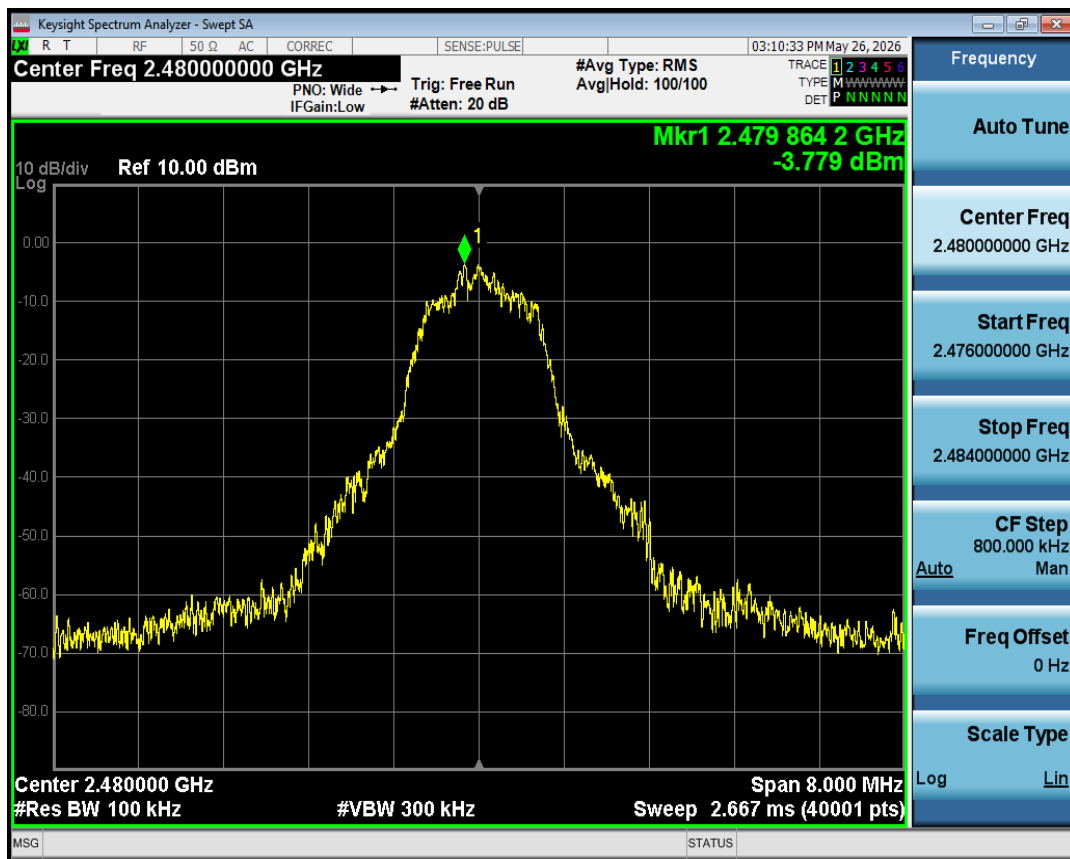
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



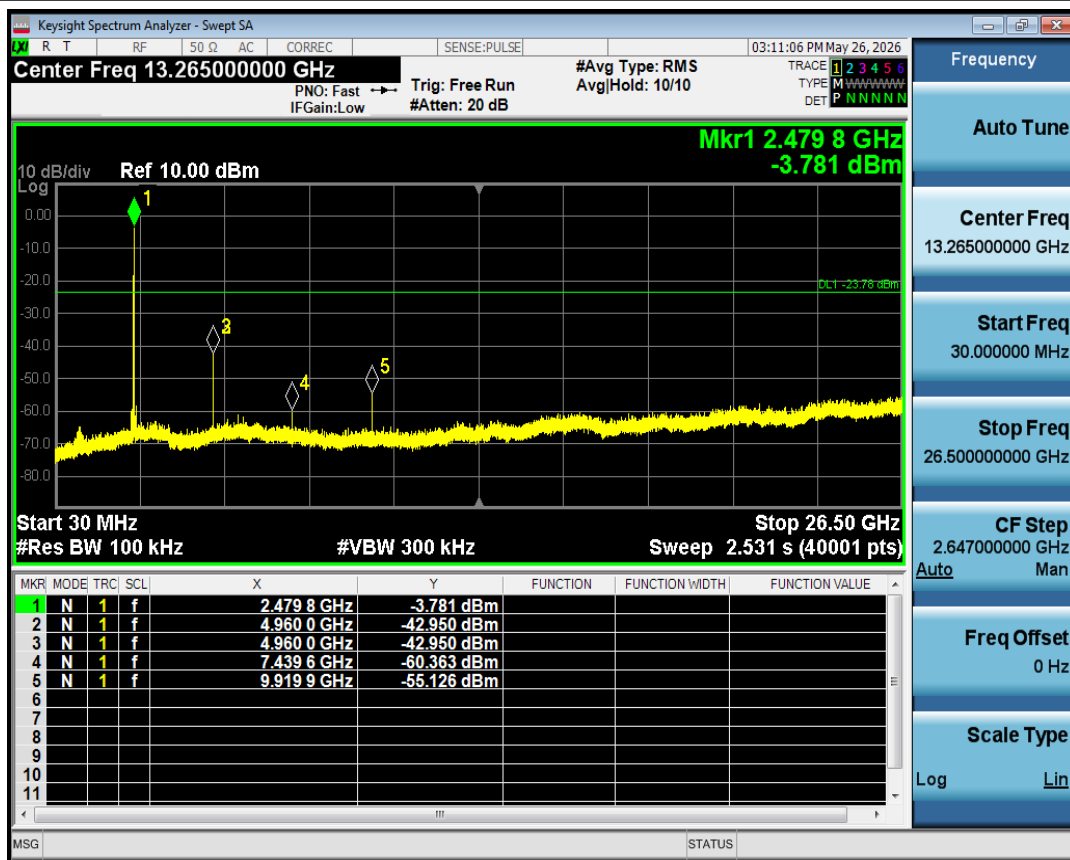
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



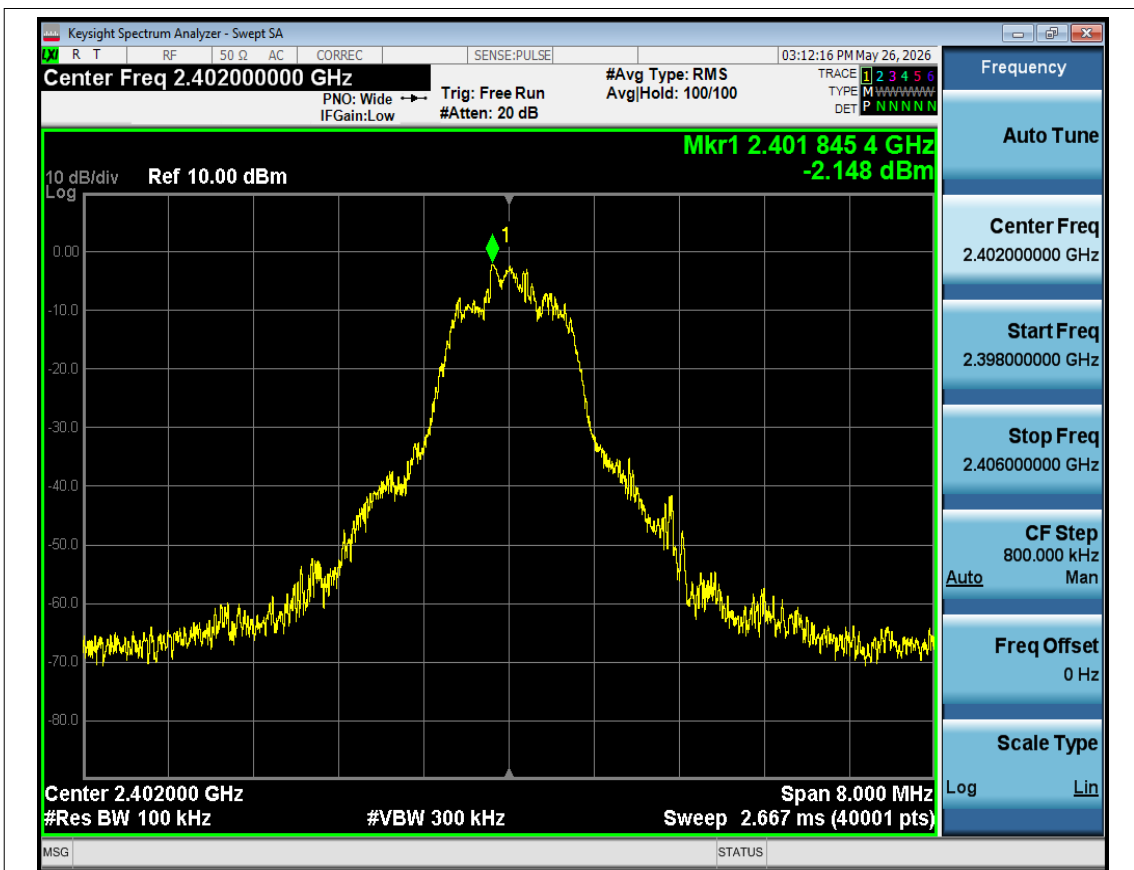
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



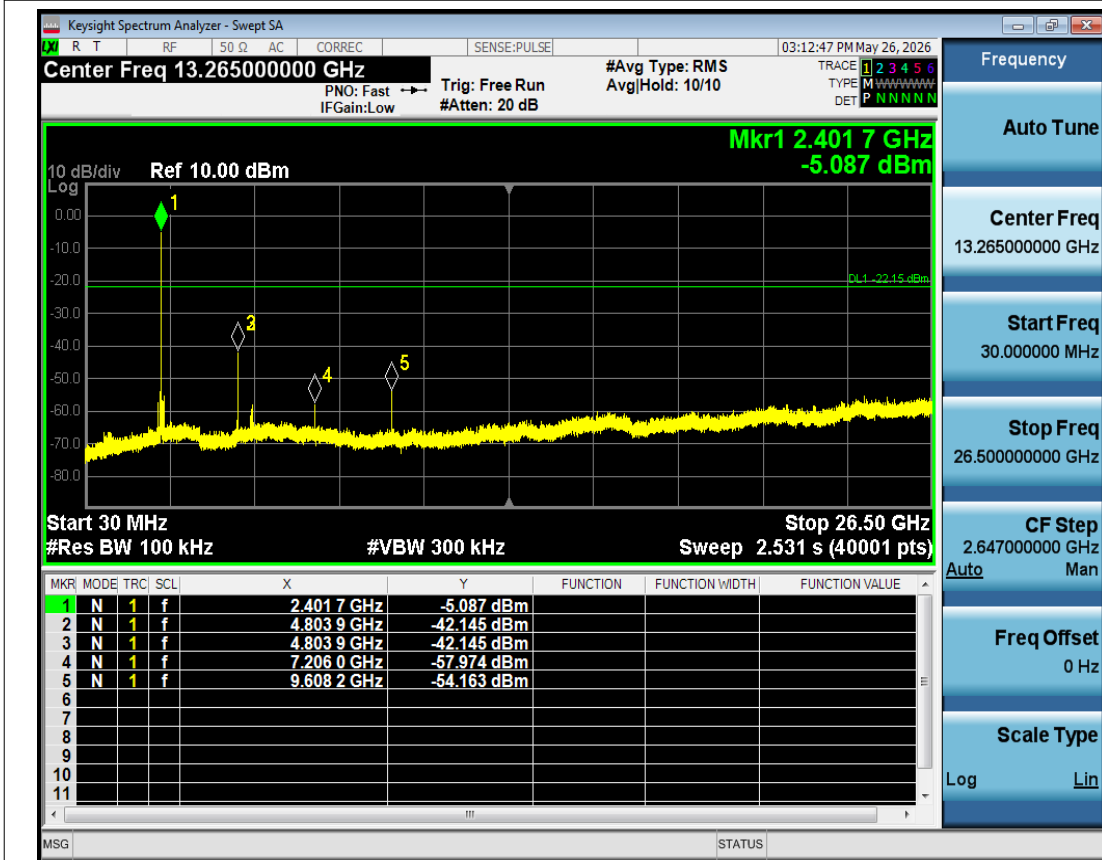
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



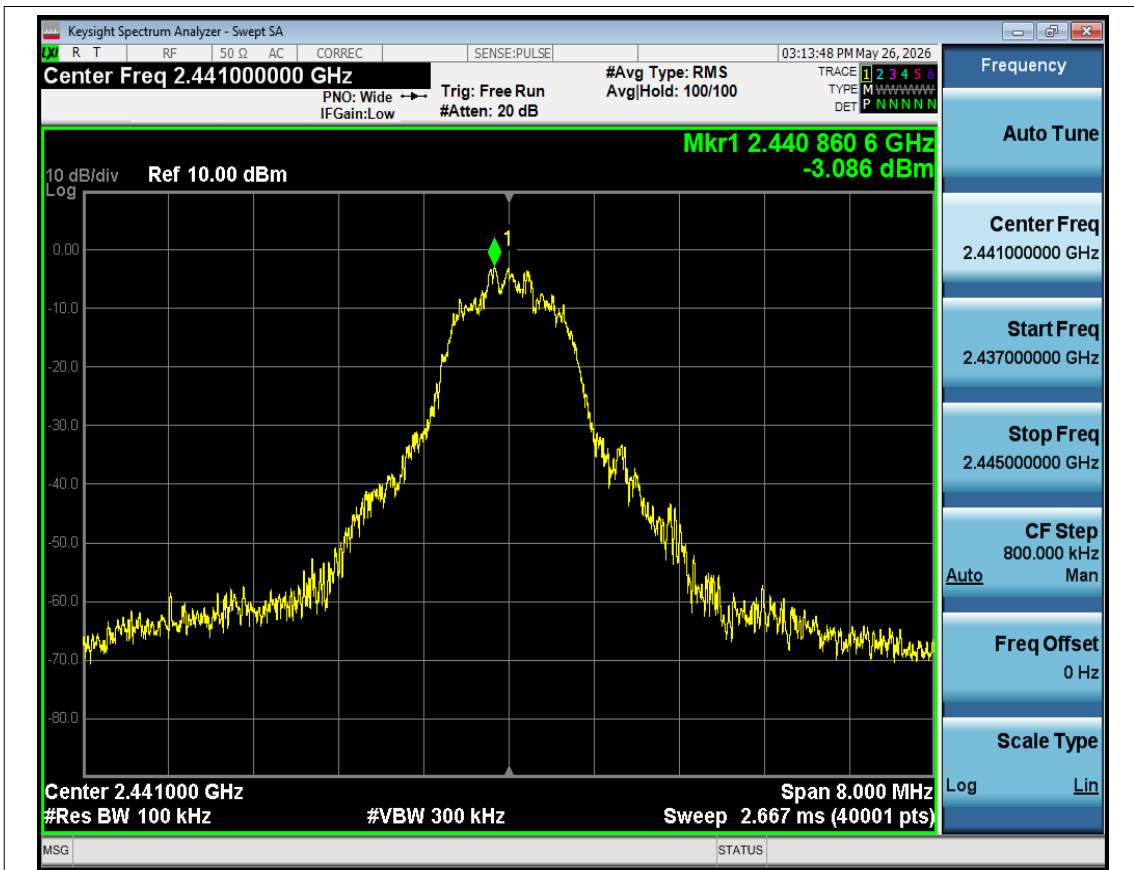
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



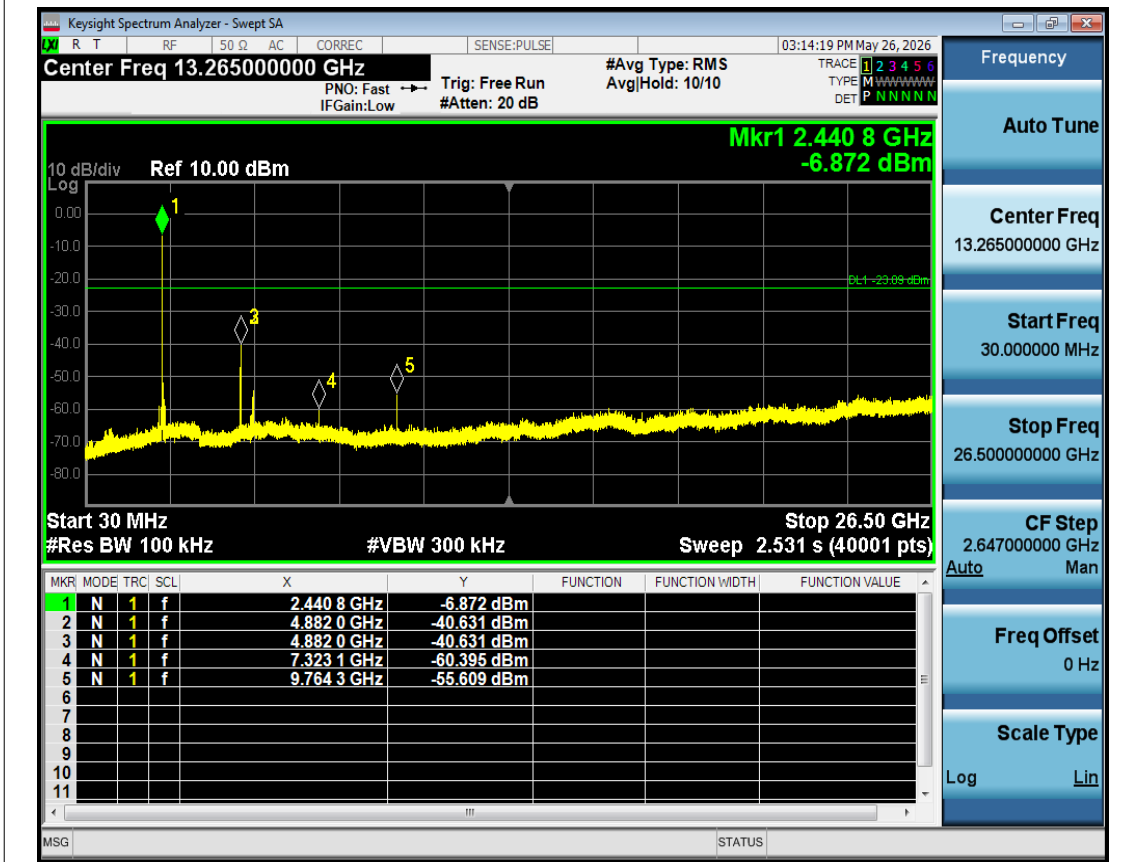
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



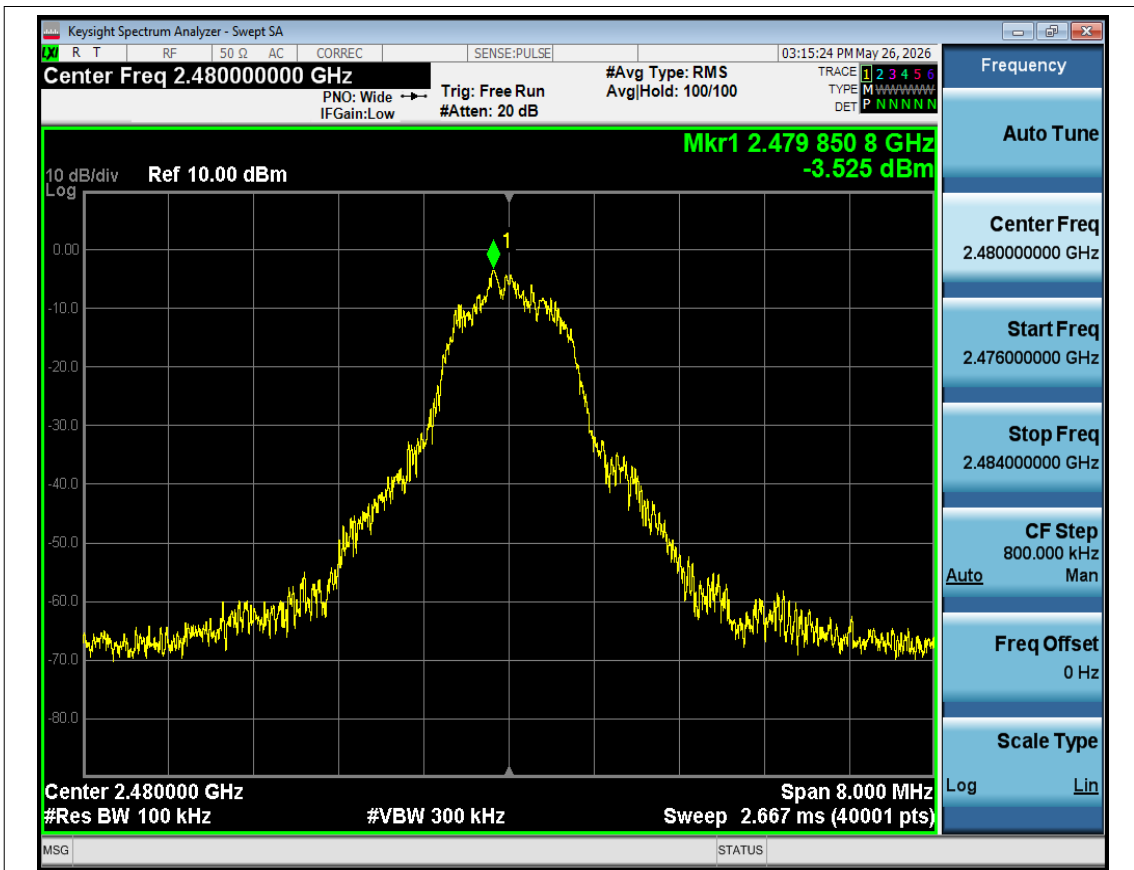
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



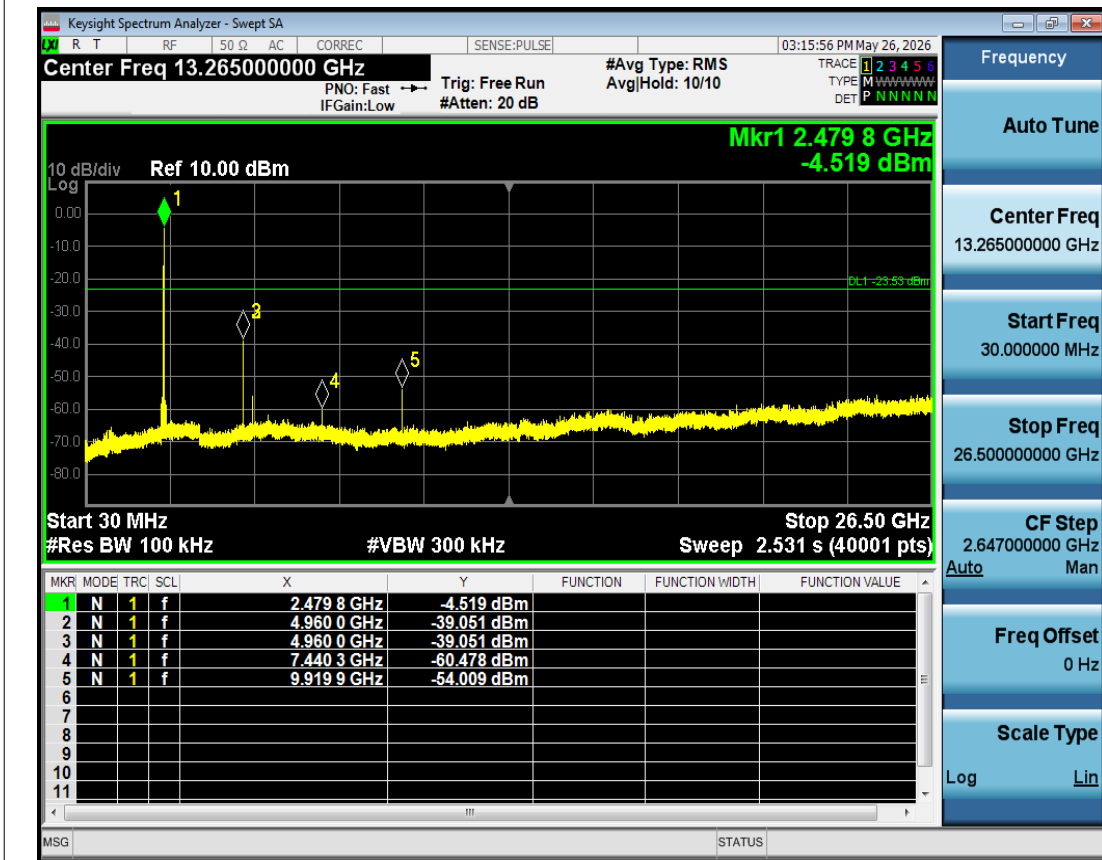
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



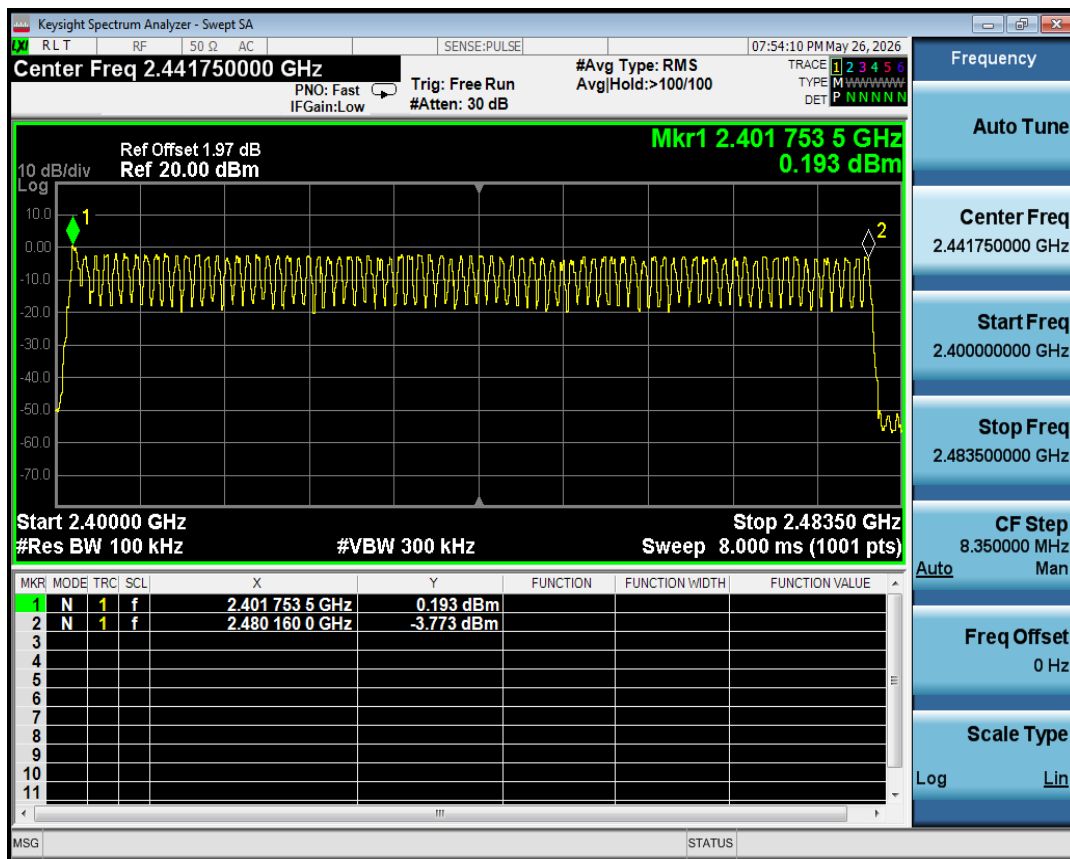
Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



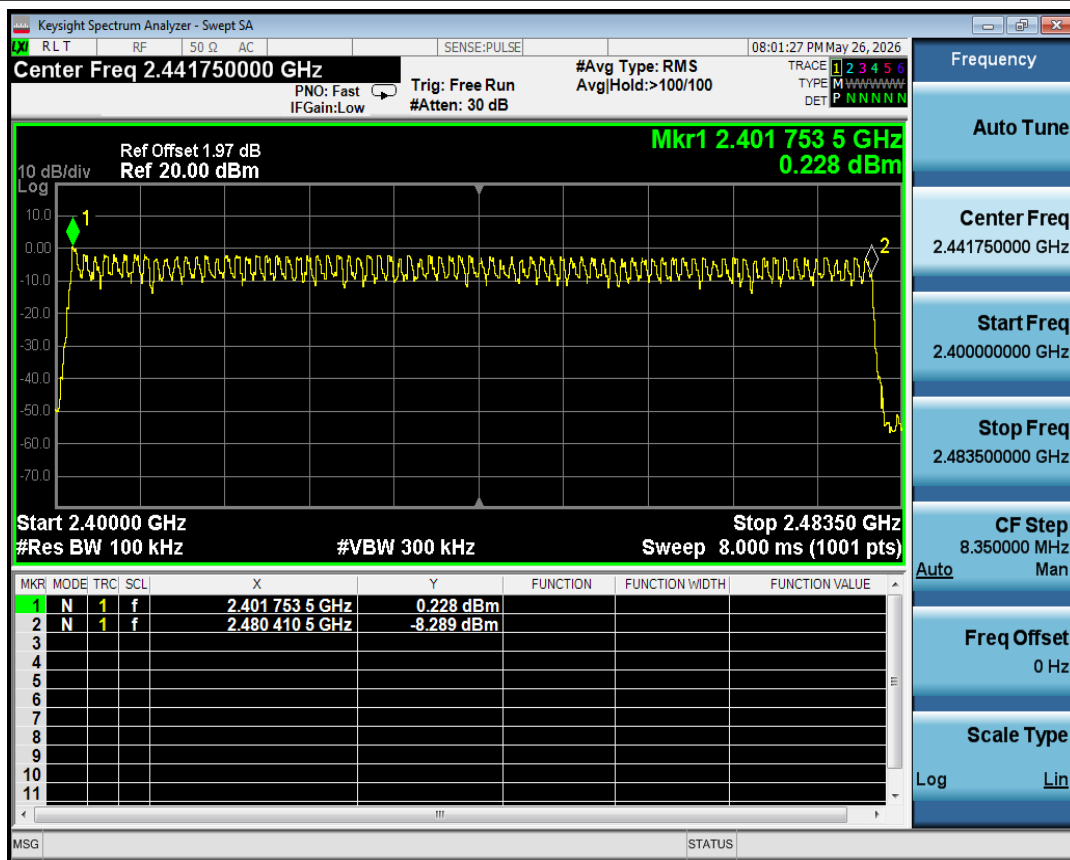
Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

Number of Hopping Channel

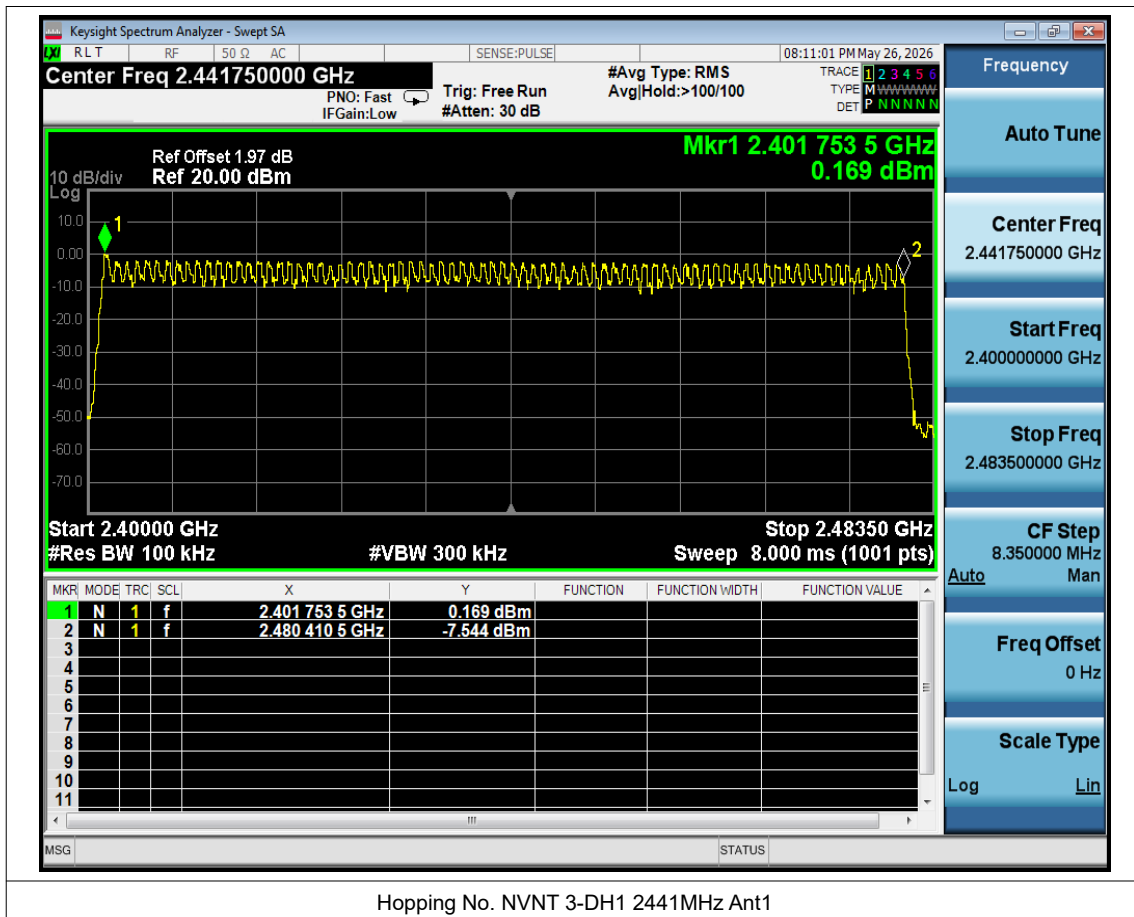
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass



Hopping No. NVNT 1-DH1 2441MHz Ant1

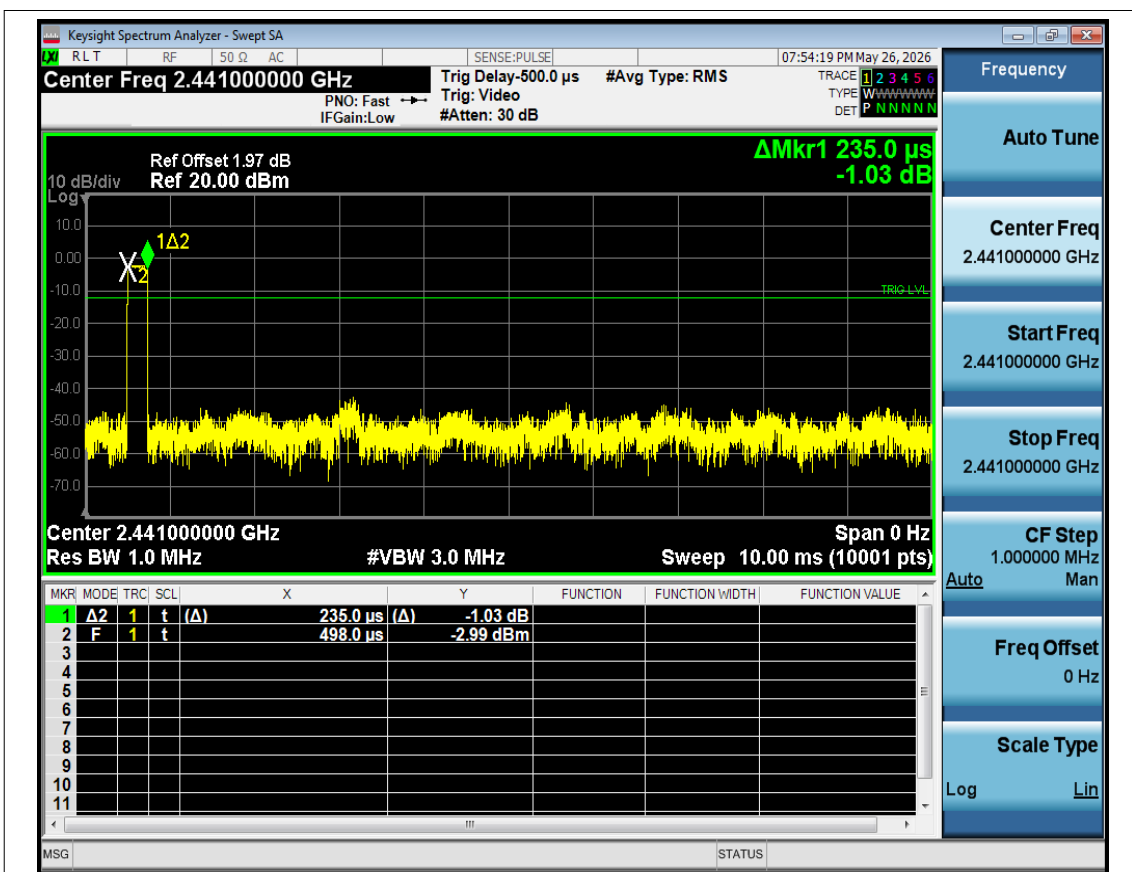


Hopping No. NVNT 2-DH1 2441MHz Ant1

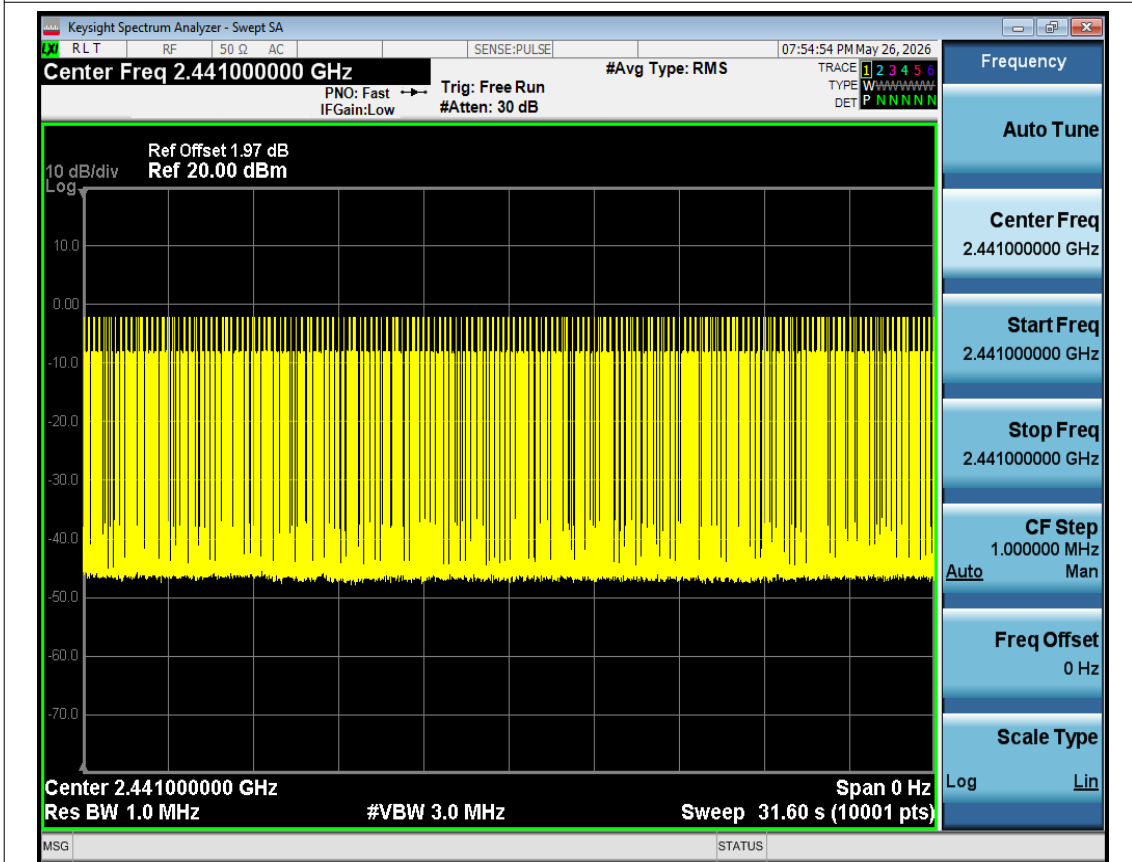


Dwell Time

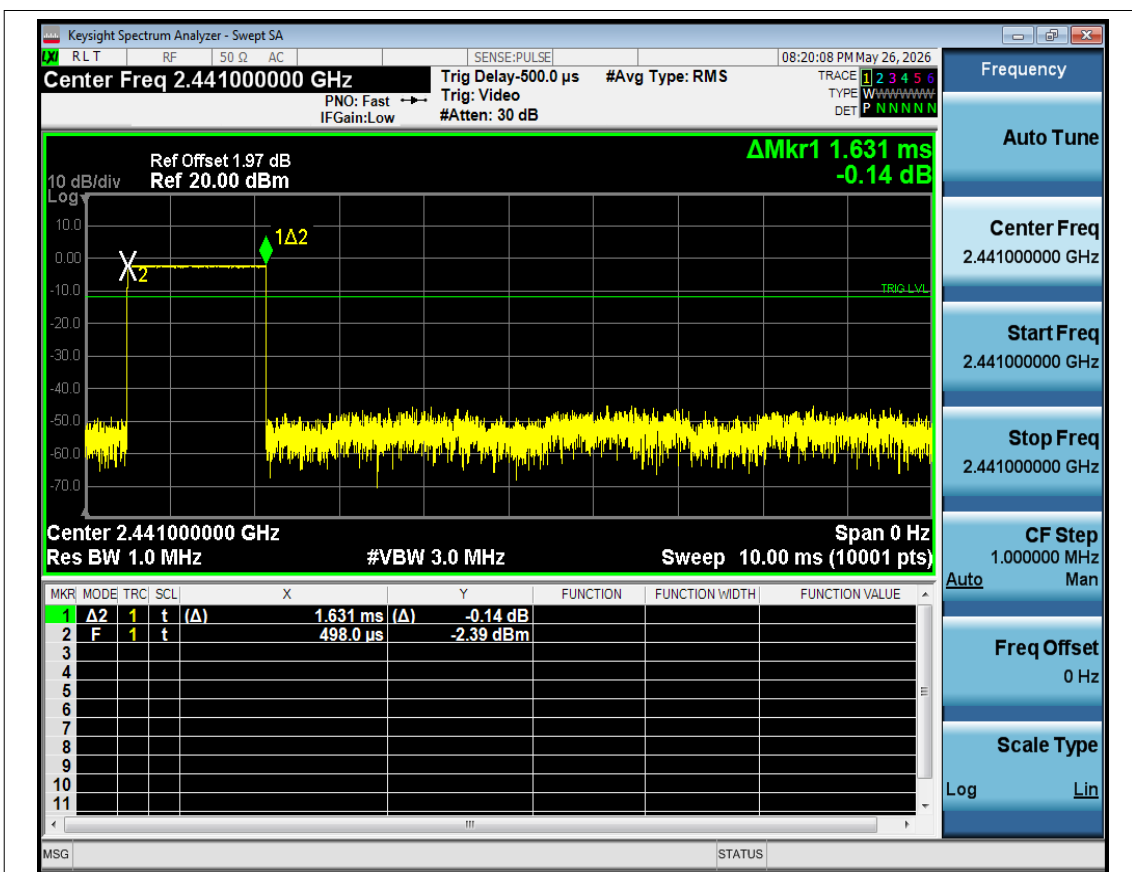
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.235	74.73	318	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.631	270.746	166	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.879	336.843	117	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.234	74.412	318	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.631	249.543	153	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.87	289.87	101	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.234	74.178	317	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.623	253.188	156	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.873	316.03	110	31600	400	Pass



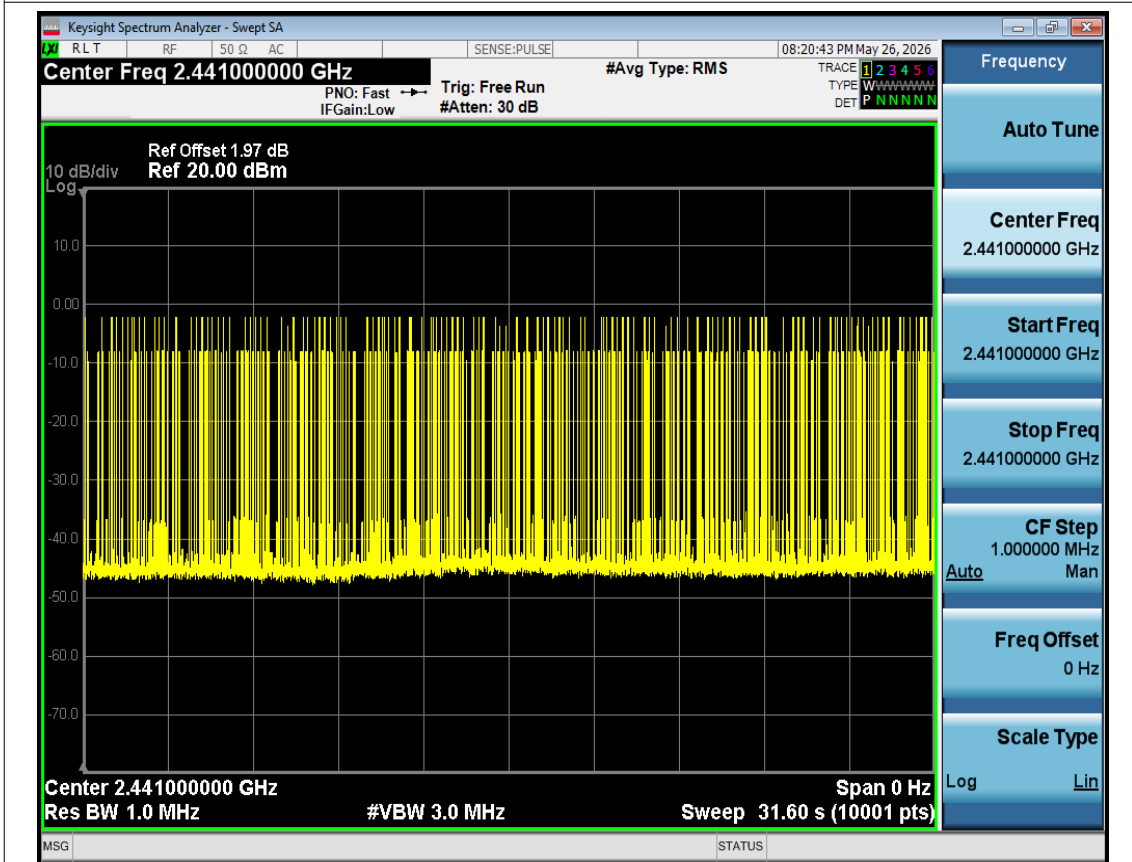
Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



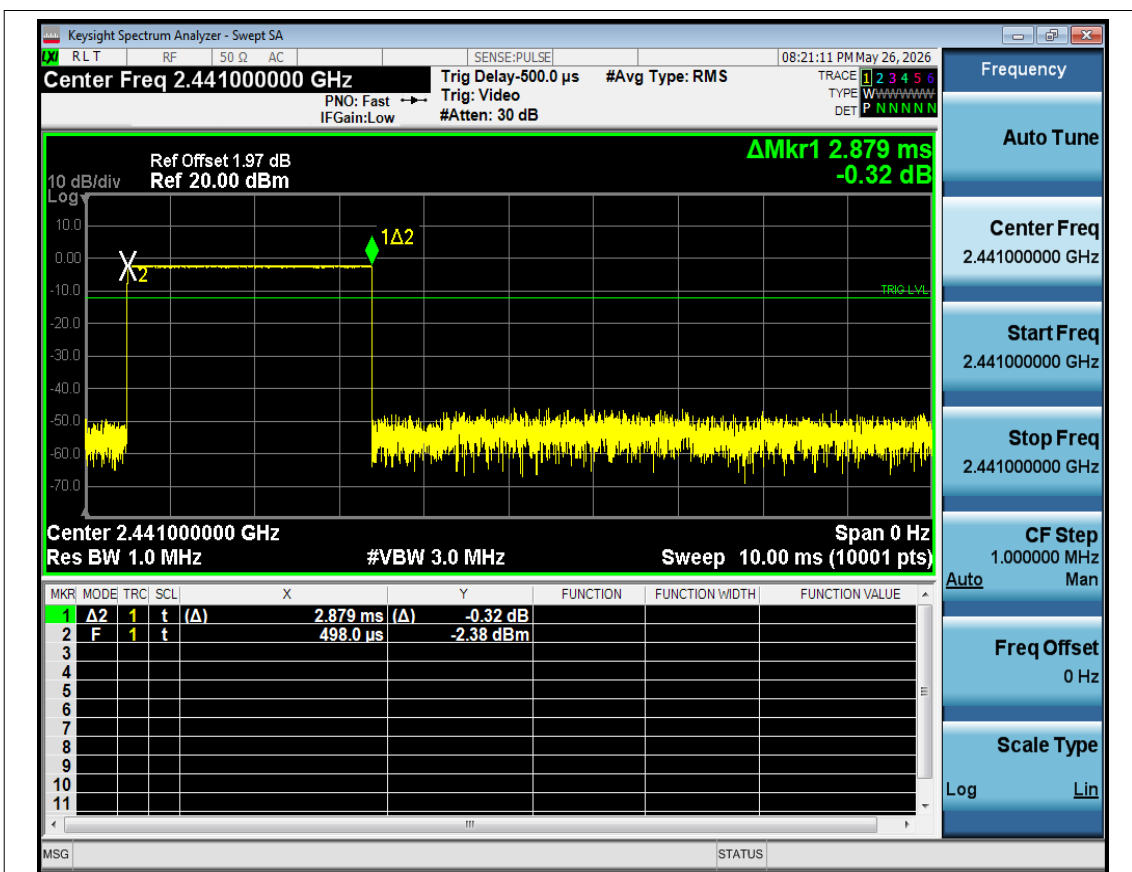
Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



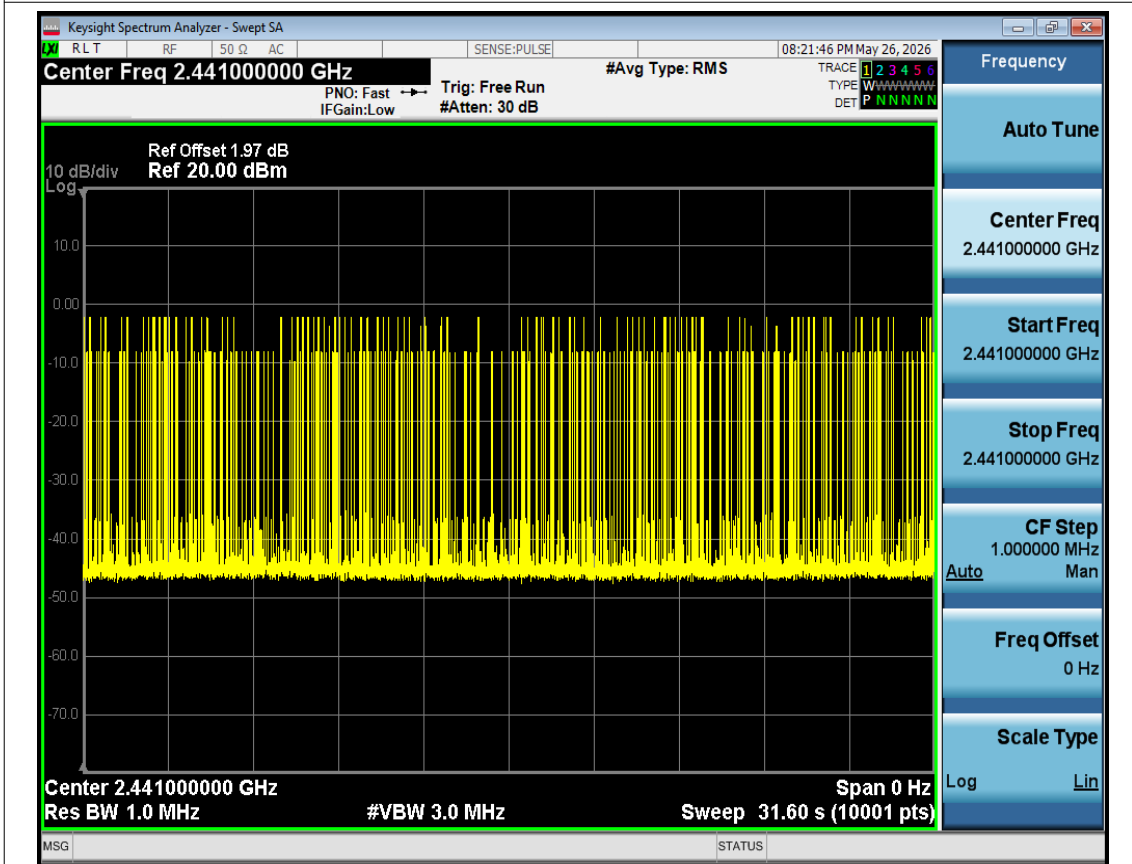
Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



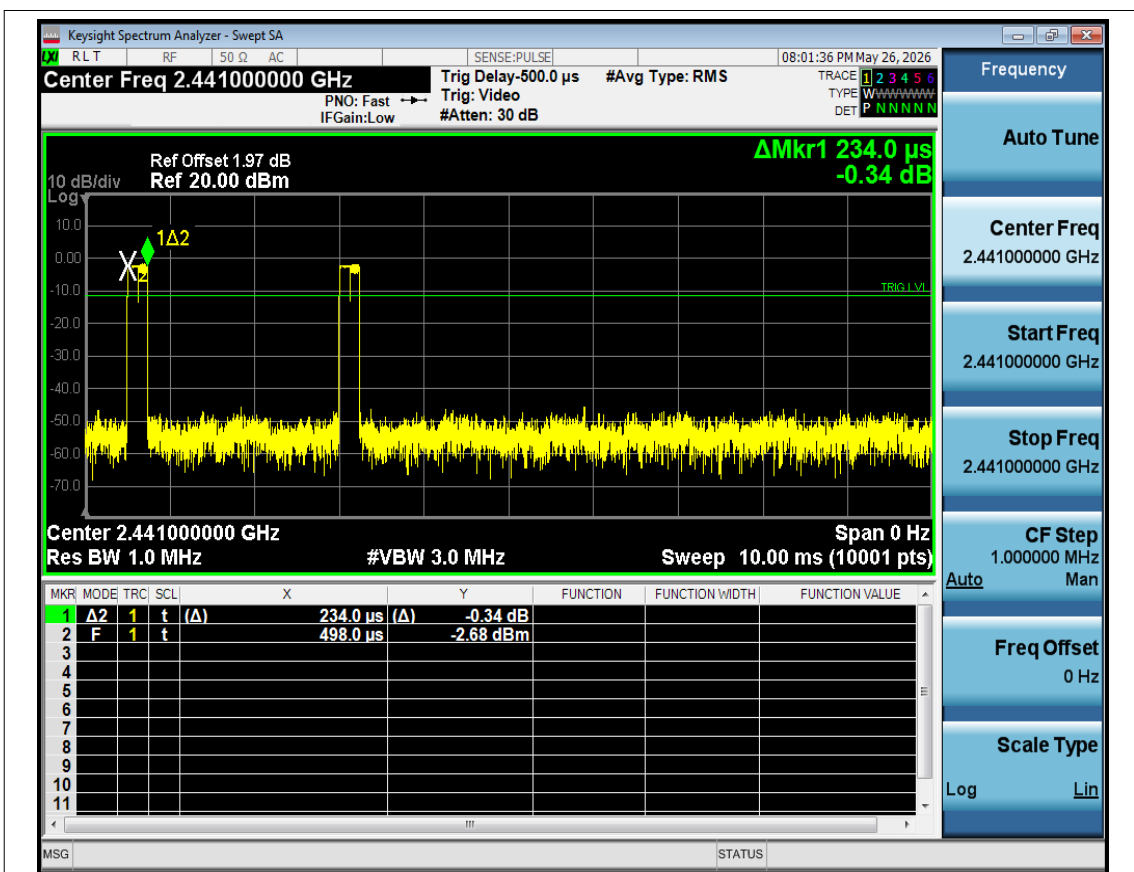
Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



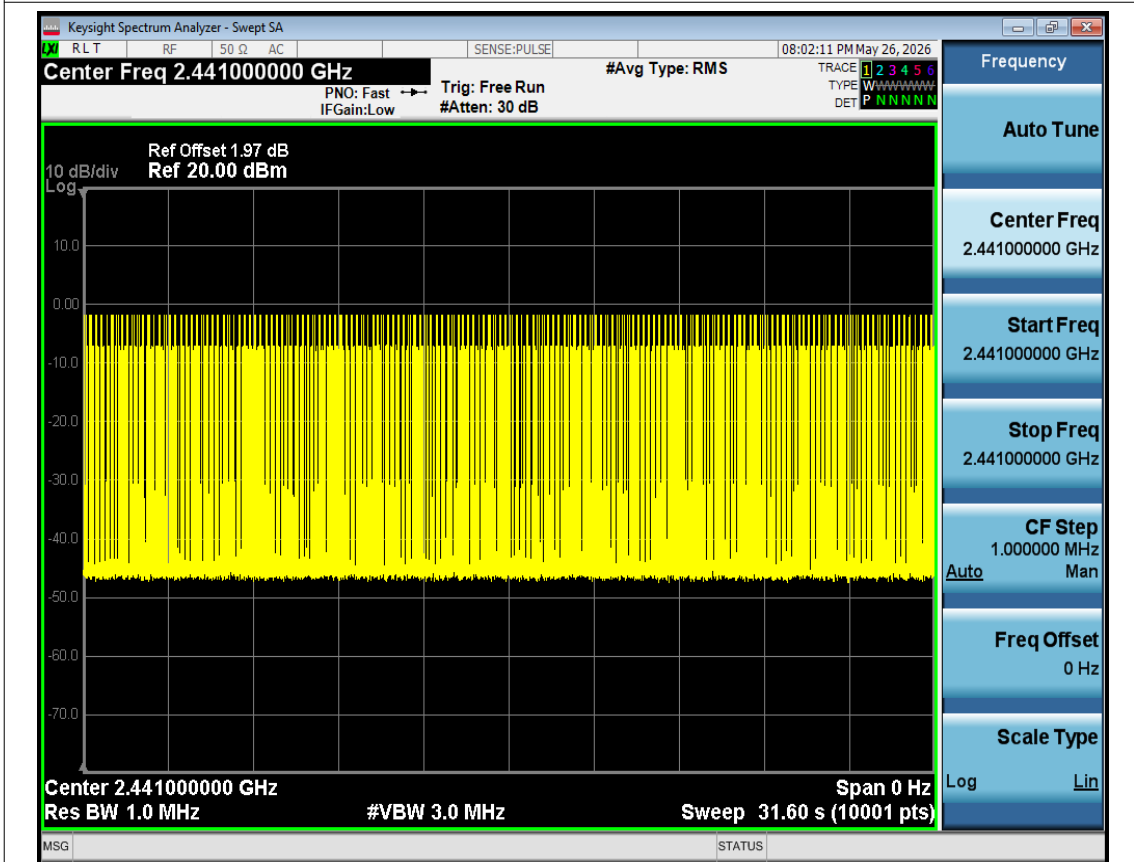
Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



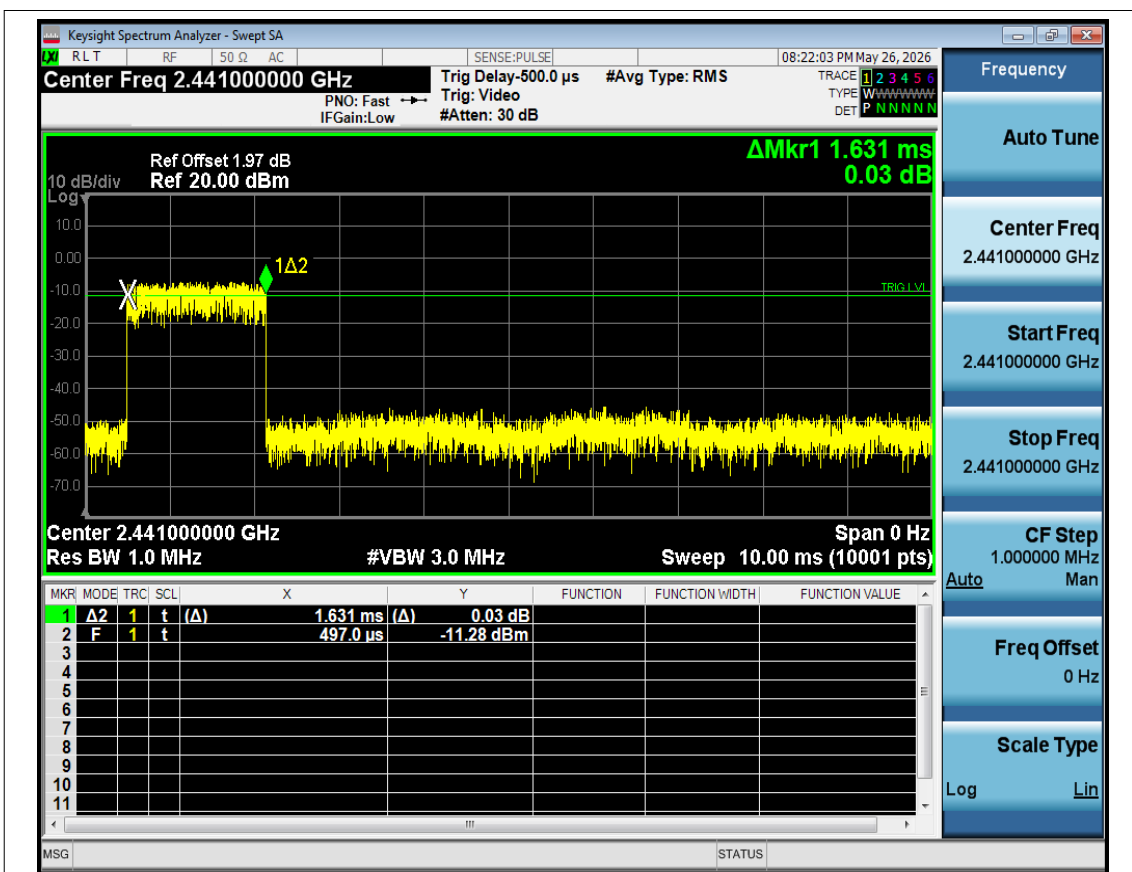
Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



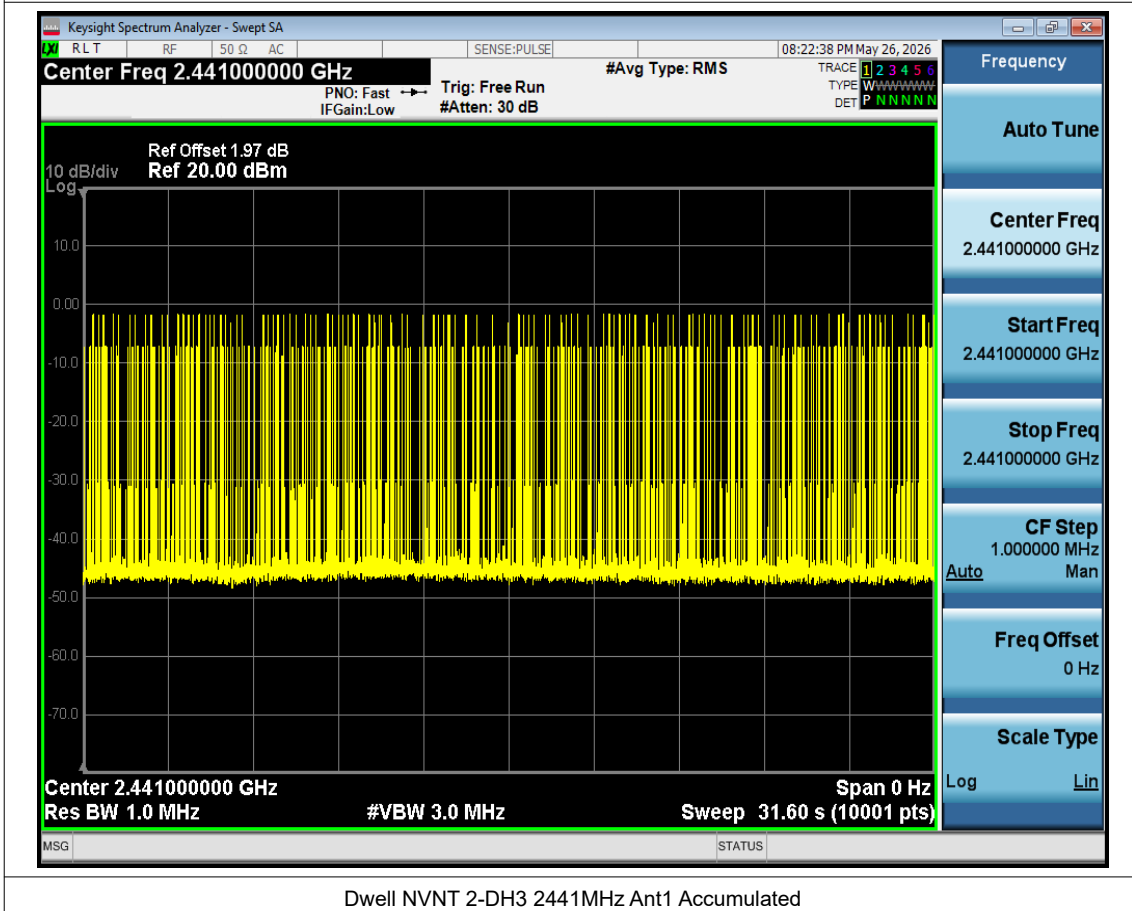
Dwell NVNT 2-DH1 2441MHz Ant1 One Burst



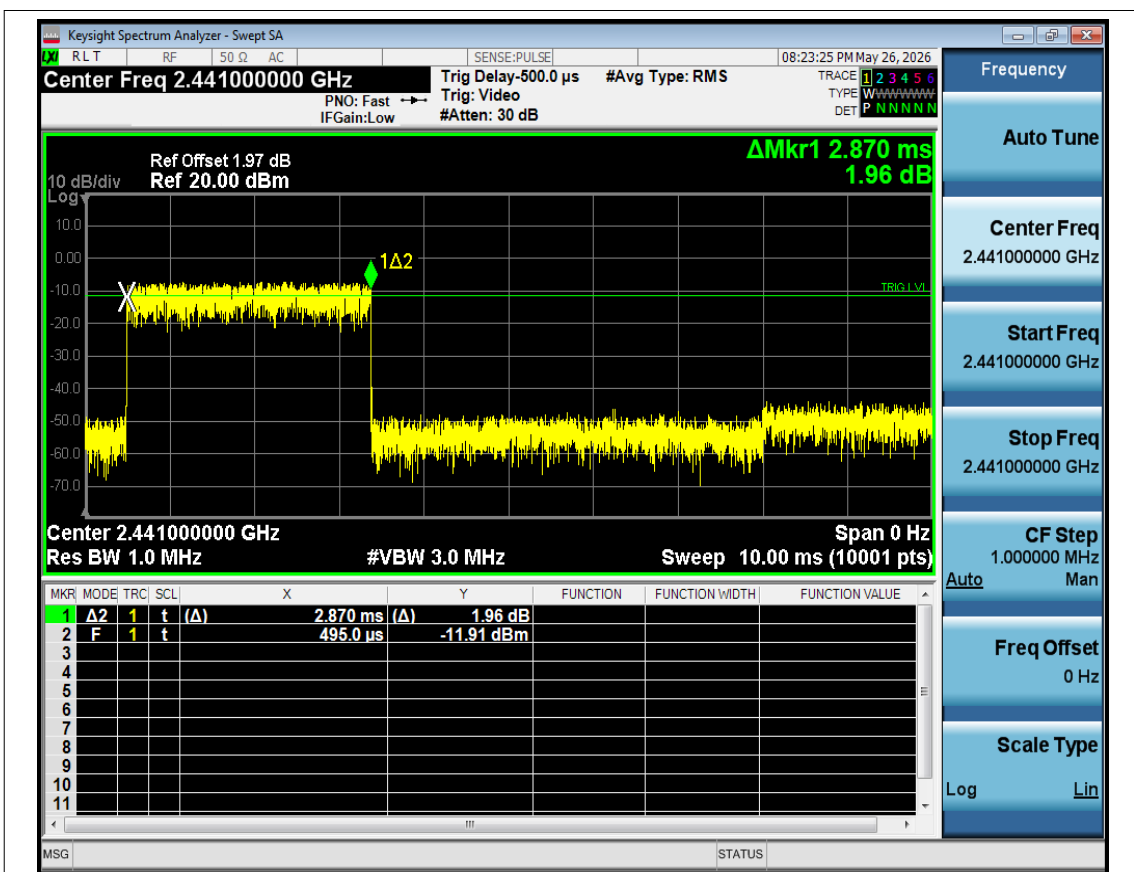
Dwell NVNT 2-DH1 2441MHz Ant1 Accumulated



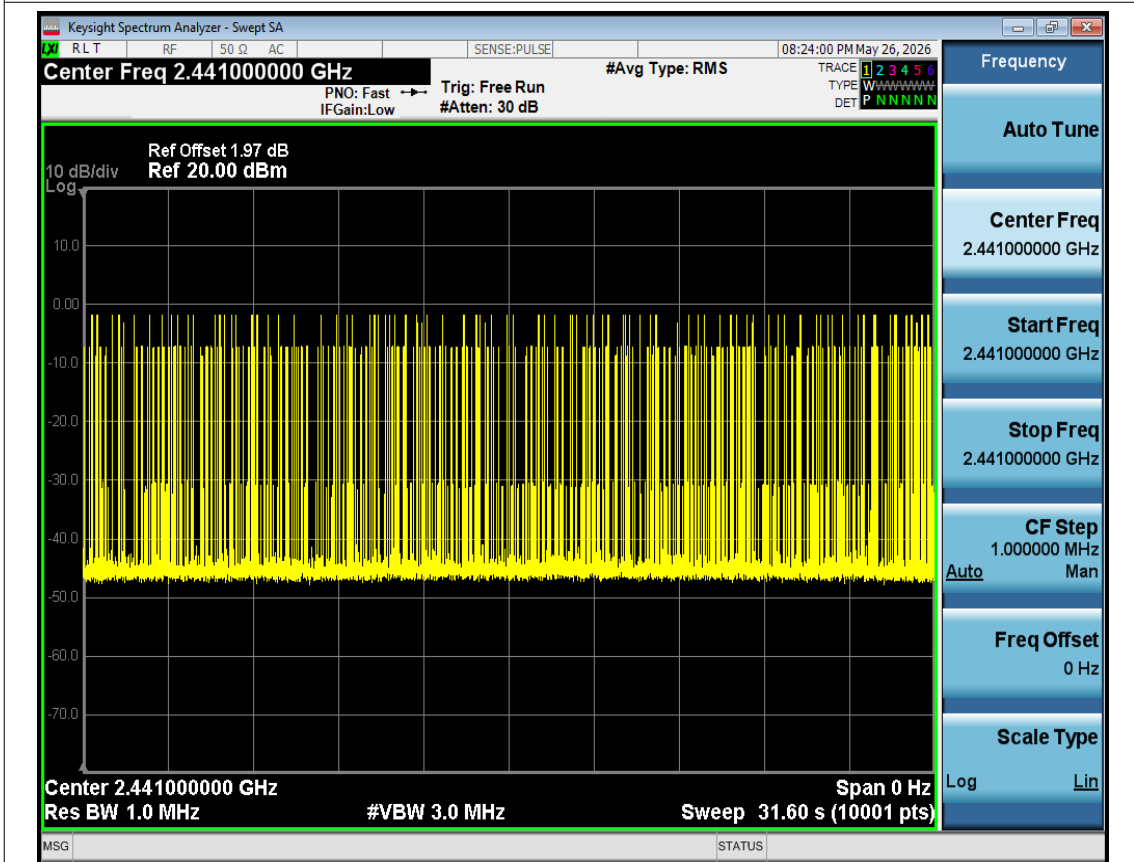
Dwell NVNT 2-DH3 2441MHz Ant1 One Burst



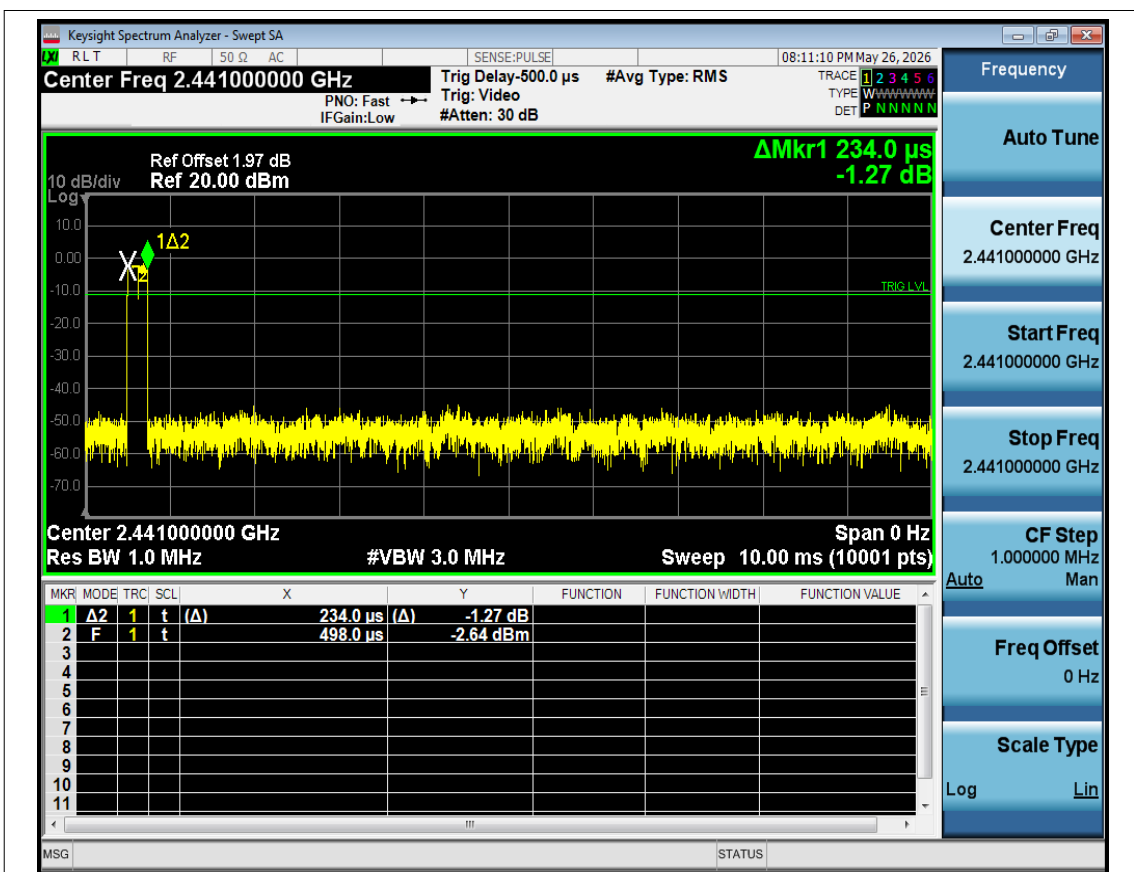
Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



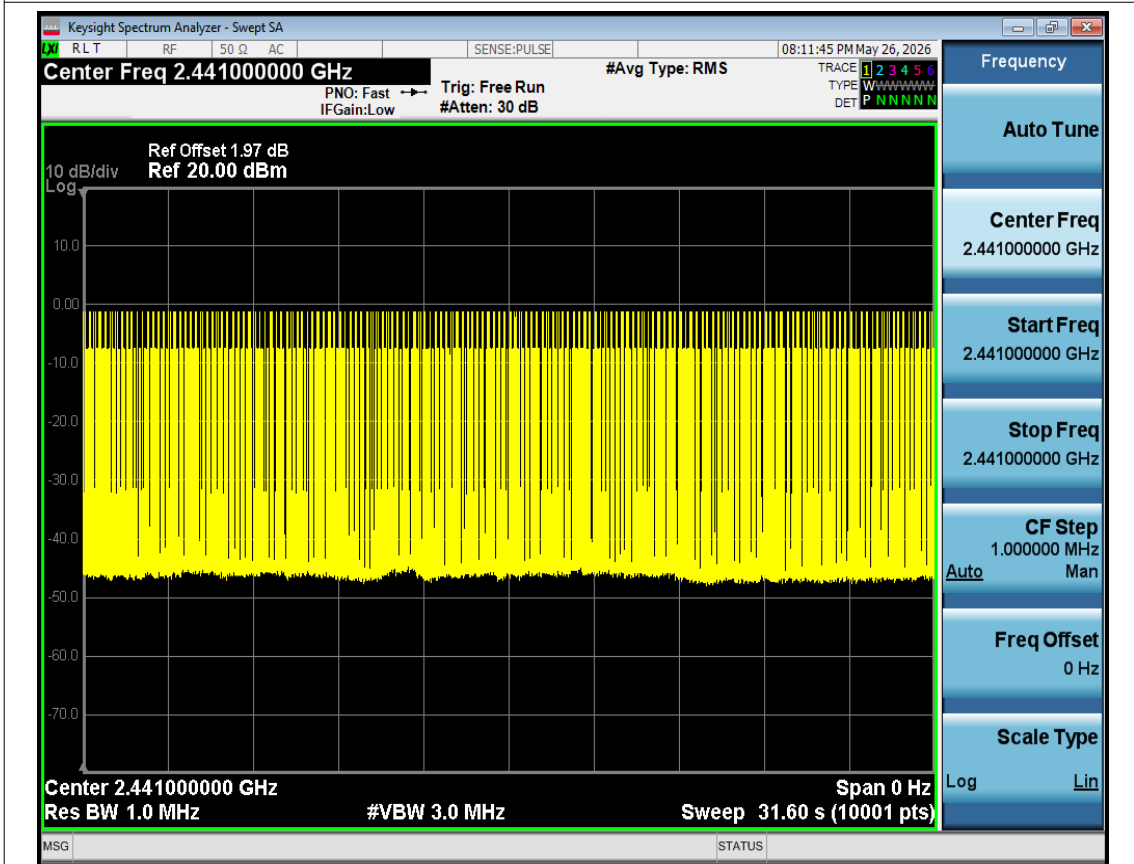
Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



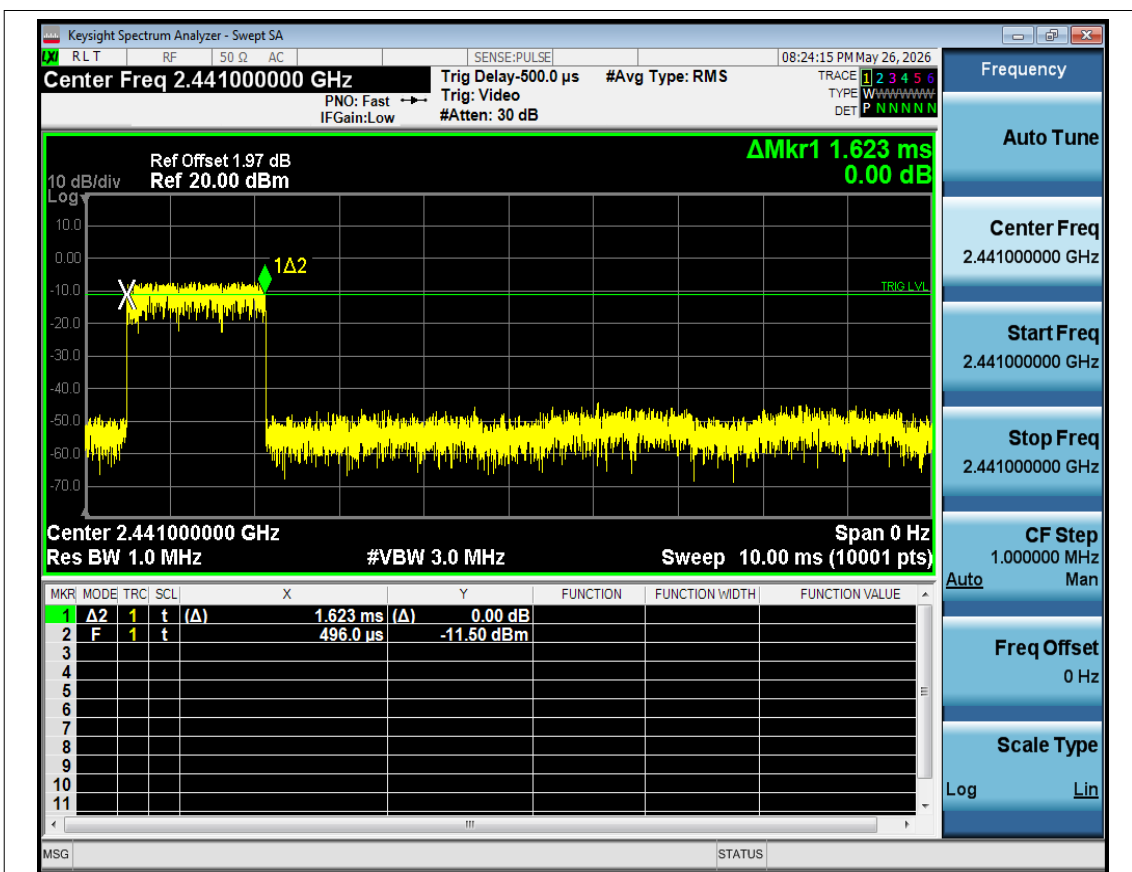
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



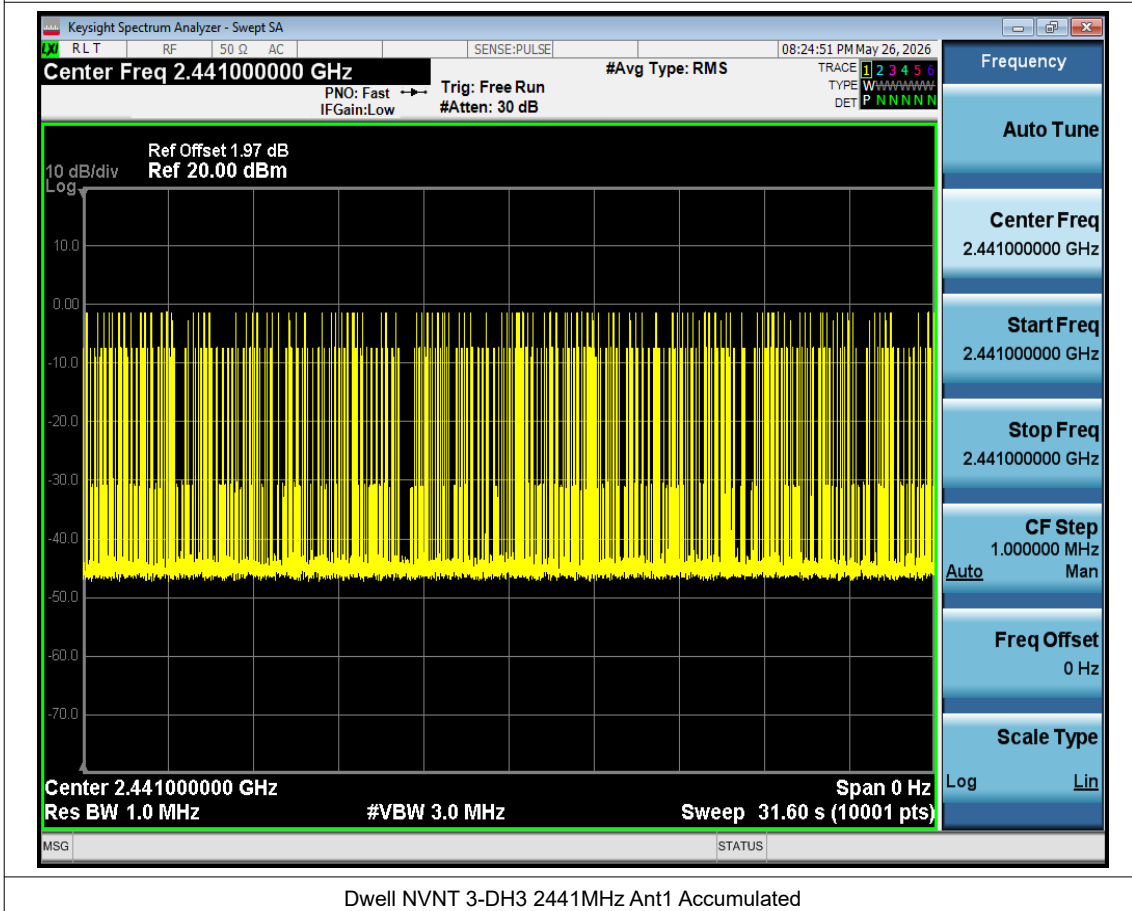
Dwell NVNT 3-DH1 2441MHz Ant1 One Burst



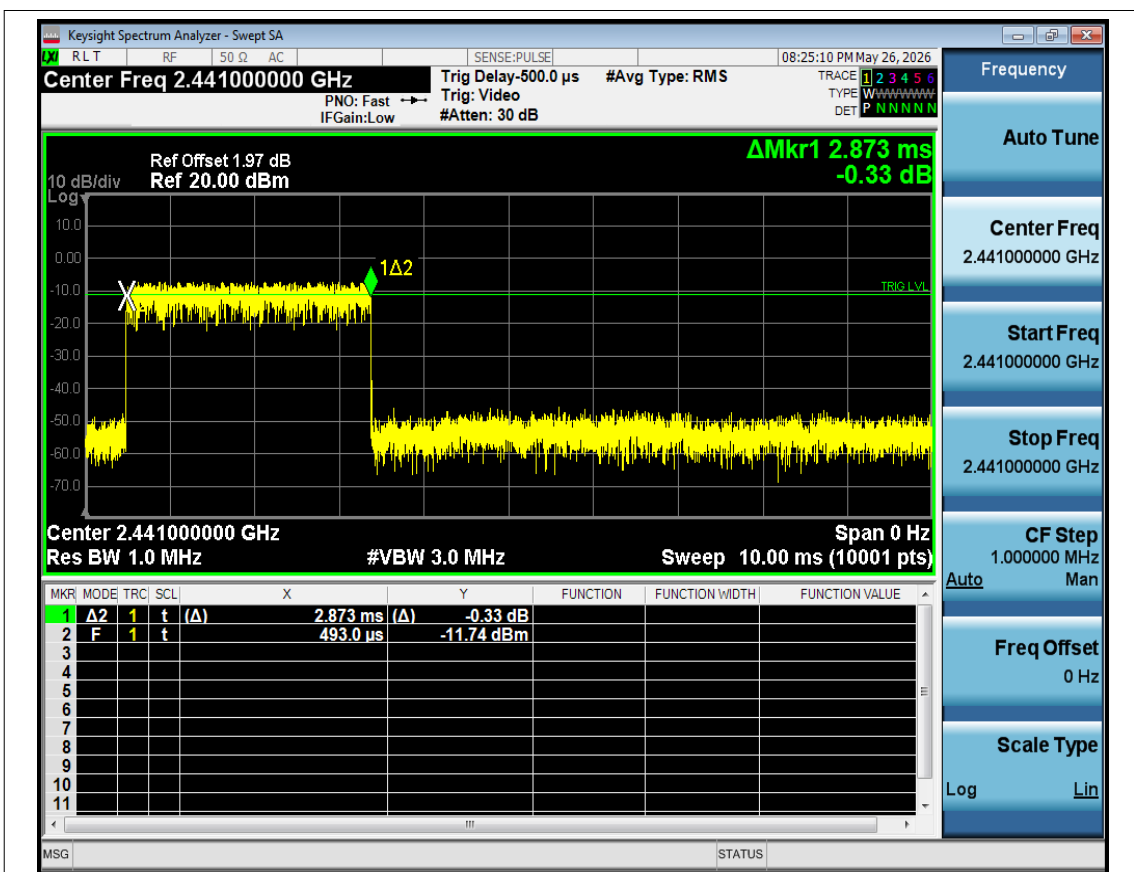
Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated



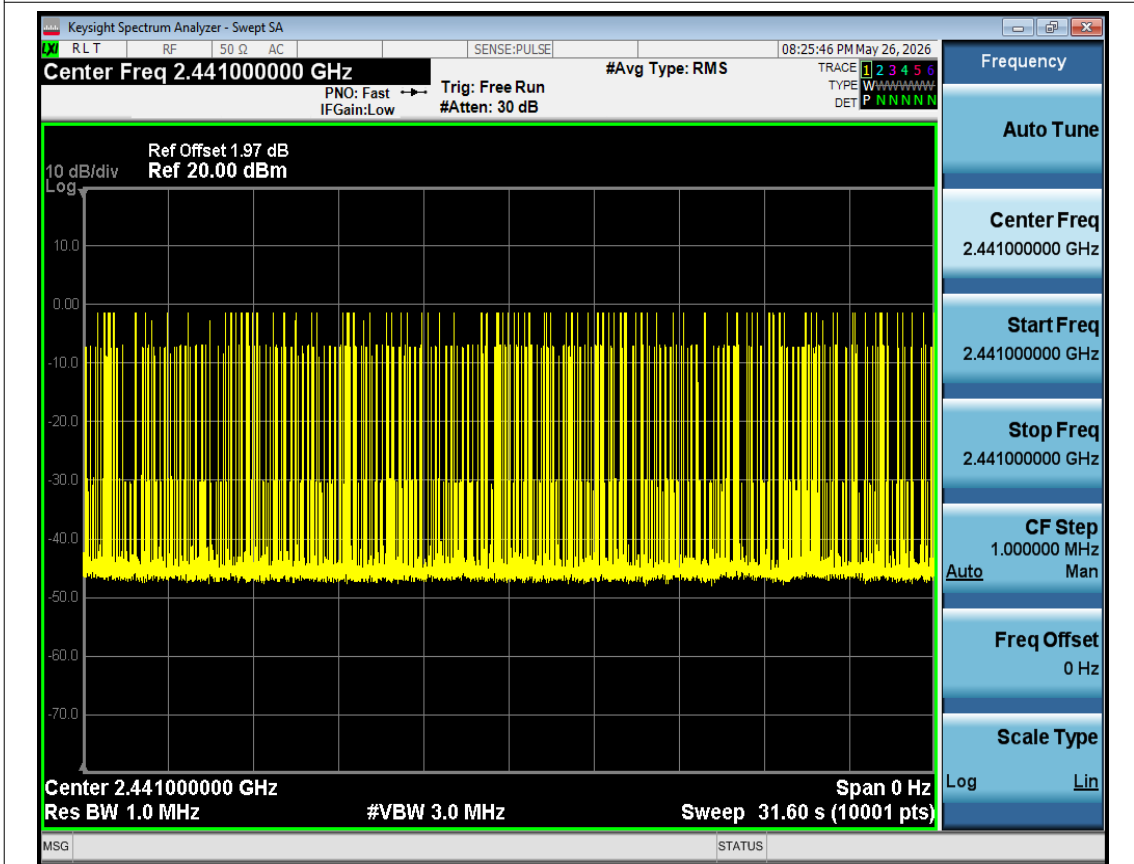
Dwell NVNT 3-DH3 2441MHz Ant1 One Burst



Dwell NVNT 3-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated