

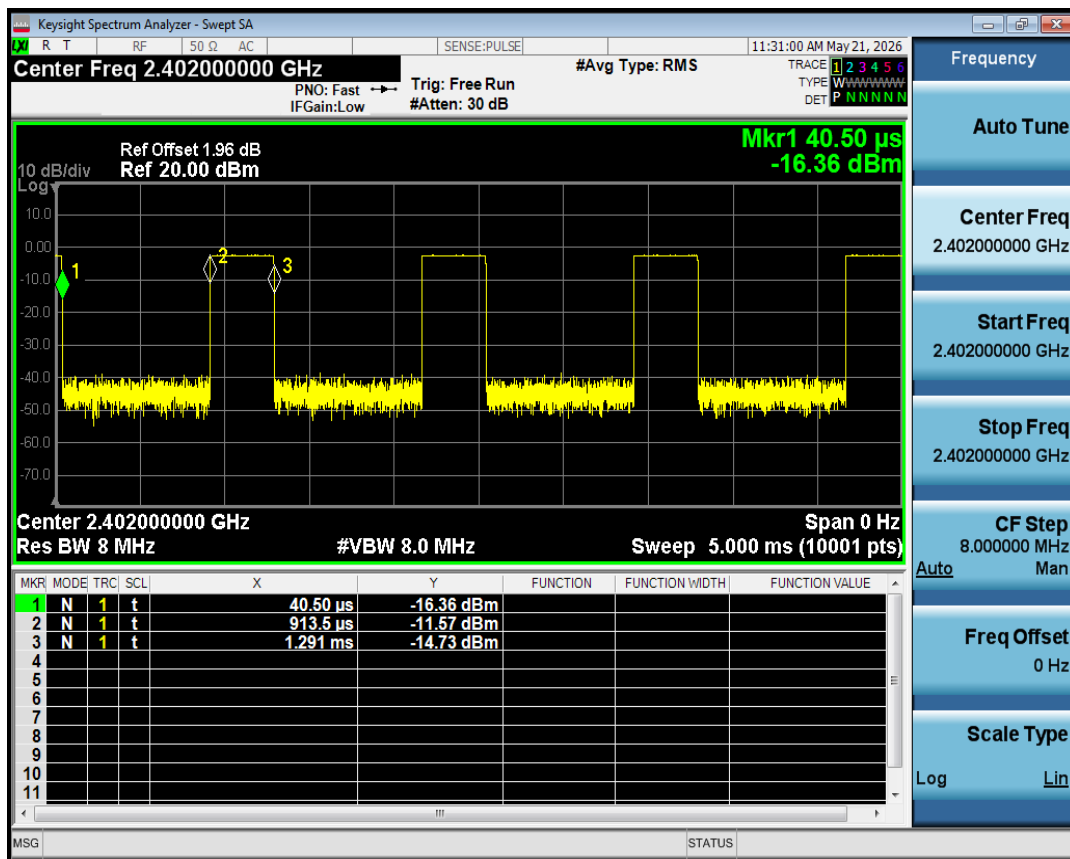
RF Test Data

FCC ID:2ASCB-DW043HLB14

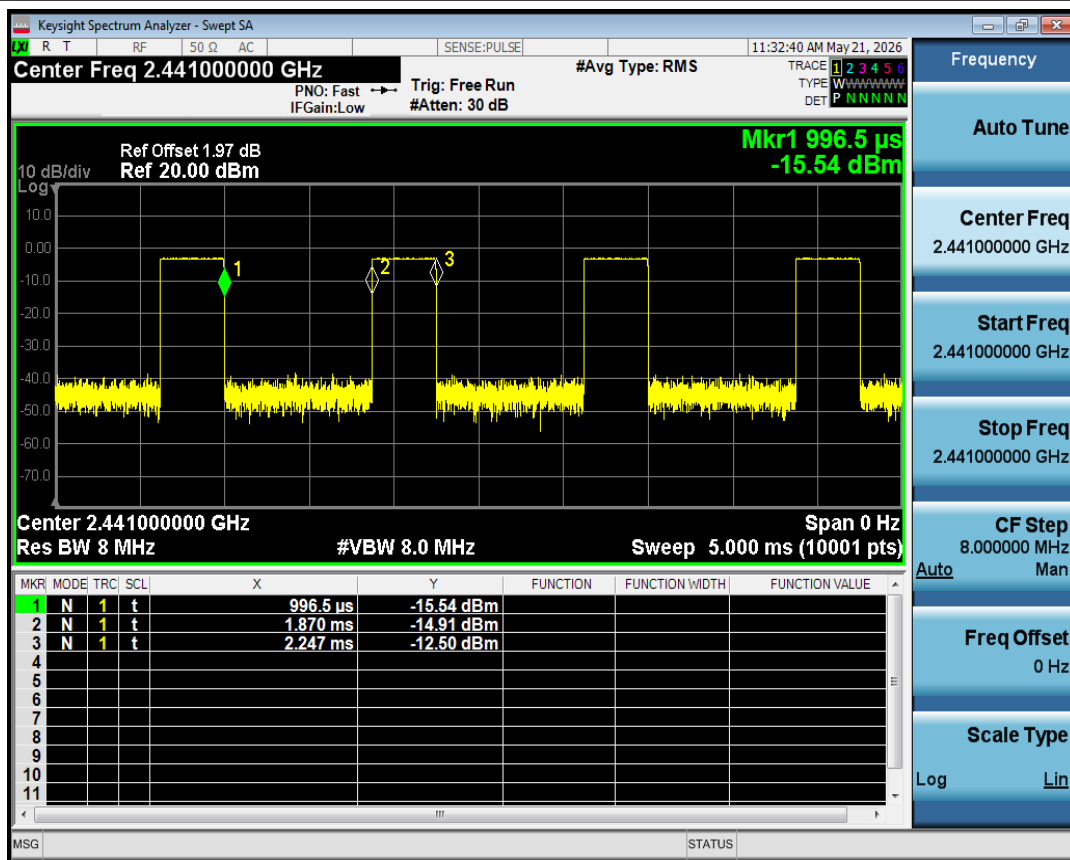
Duty Cycle	2
Maximum Peak Conducted Output Power	8
-20dB Bandwidth	14
Occupied Channel Bandwidth	20
Carrier Frequencies Separation	26
Band Edge	32
Band Edge(Hopping)	39
Conducted RF Spurious Emission	46
Number of Hopping Channel	56
Dwell Time	59

Duty Cycle

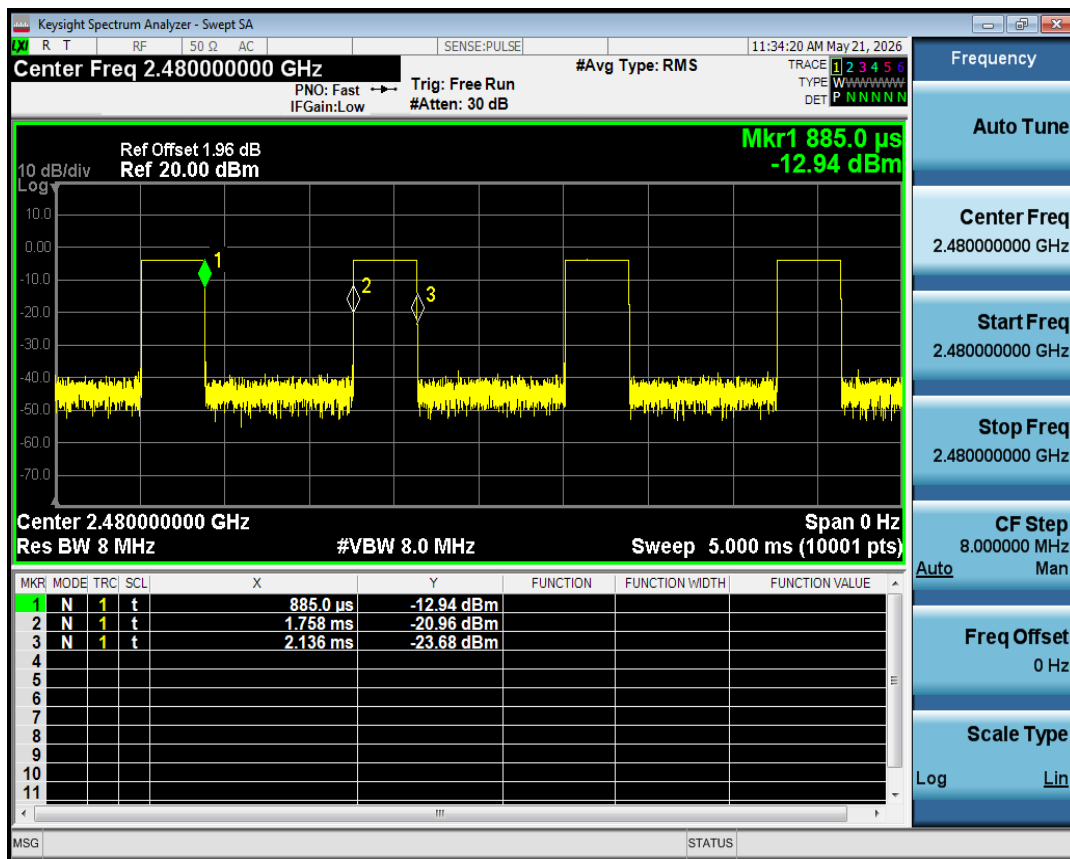
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.16	5.21	2.65
NVNT	1-DH1	2441	Ant1	30.16	5.21	2.65
NVNT	1-DH1	2480	Ant1	30.19	5.2	2.65
NVNT	2-DH1	2402	Ant1	30.96	5.09	2.58
NVNT	2-DH1	2441	Ant1	30.99	5.09	2.58
NVNT	2-DH1	2480	Ant1	30.96	5.09	2.58
NVNT	3-DH1	2402	Ant1	31.07	5.08	2.57
NVNT	3-DH1	2441	Ant1	31.03	5.08	2.58
NVNT	3-DH1	2480	Ant1	31	5.09	2.58



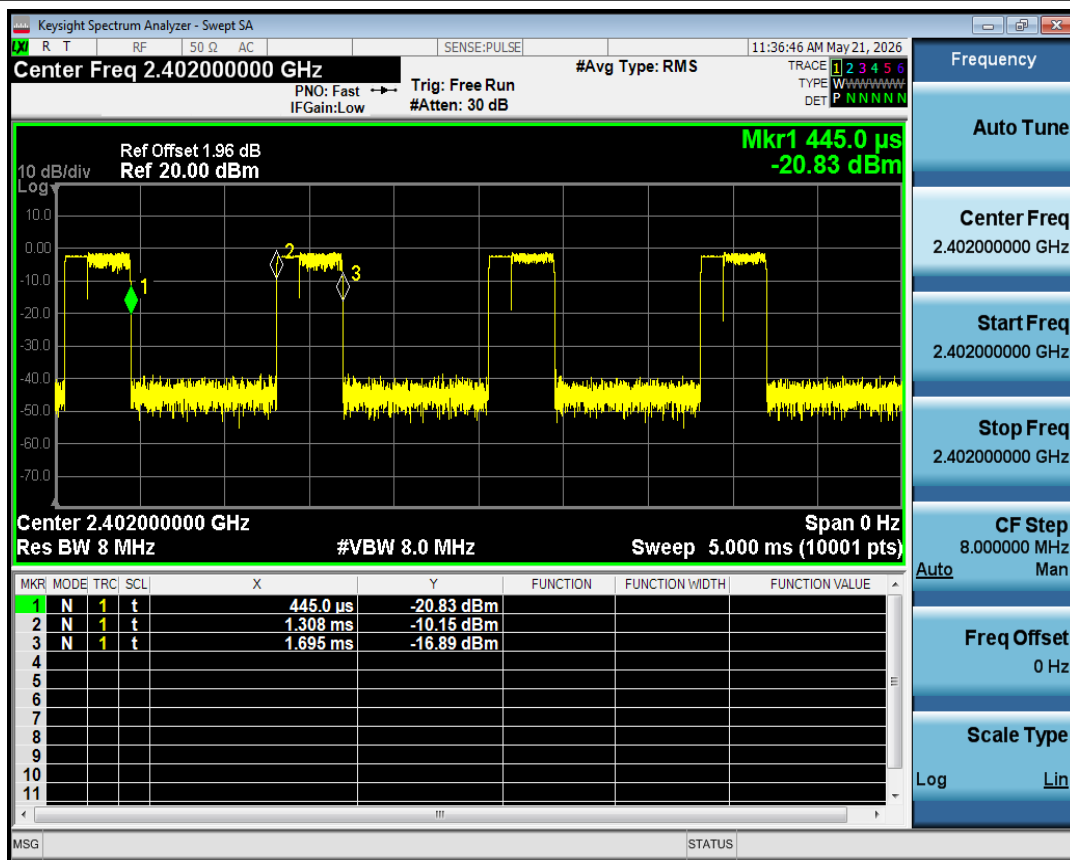
Duty Cycle NVNT 1-DH1 2402MHz Ant1



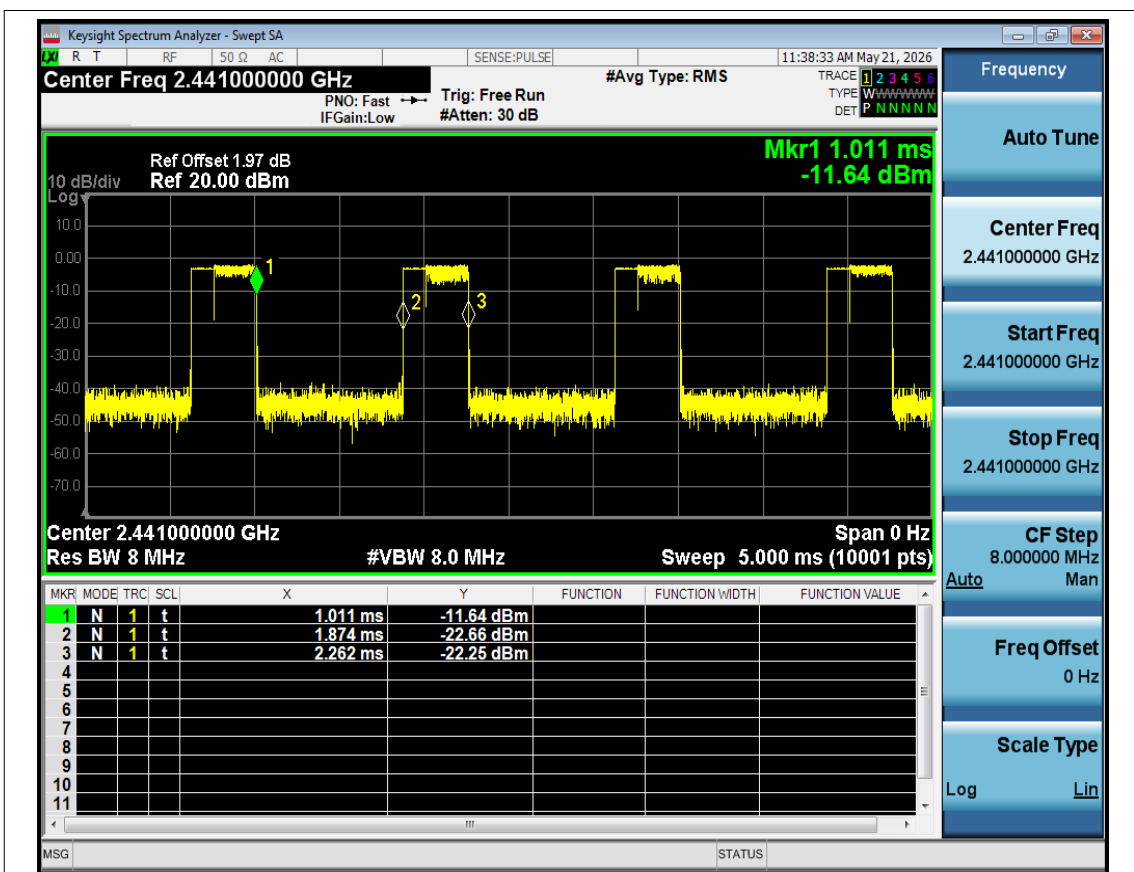
Duty Cycle NVNT 1-DH1 2441MHz Ant1



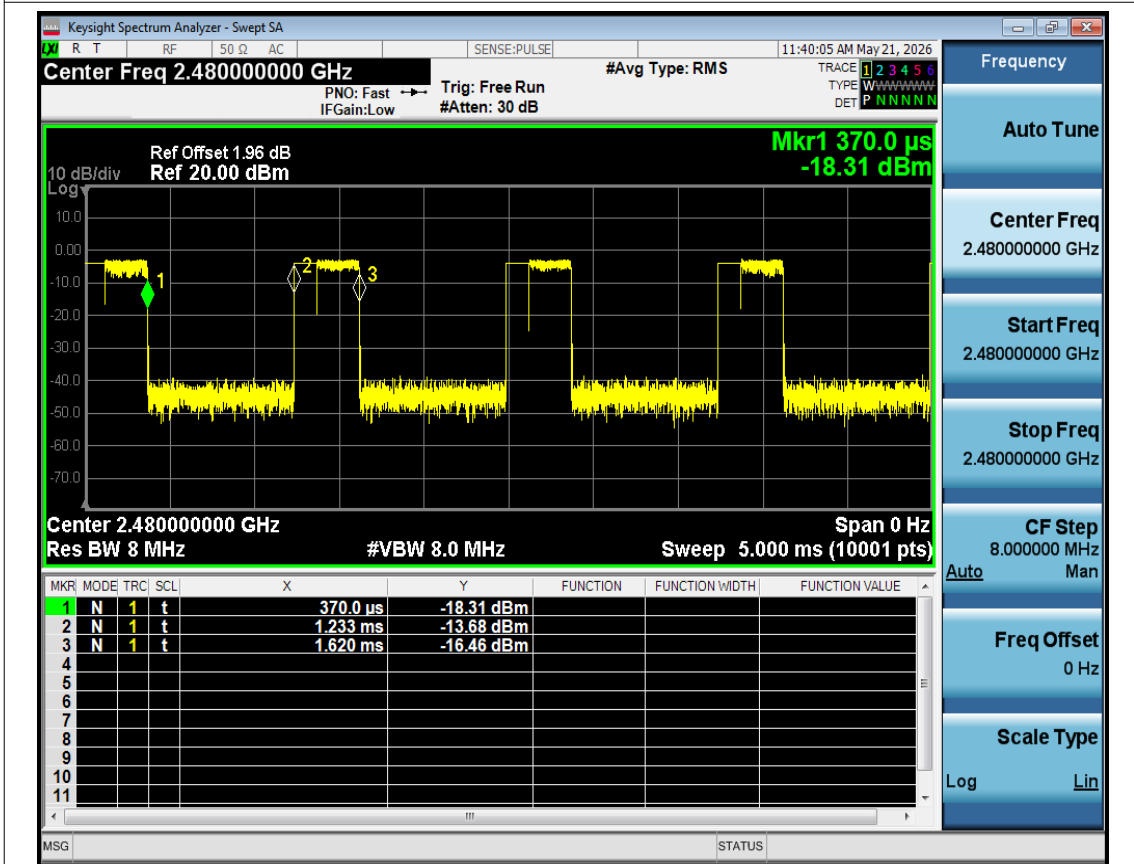
Duty Cycle NVNT 1-DH1 2480MHz Ant1



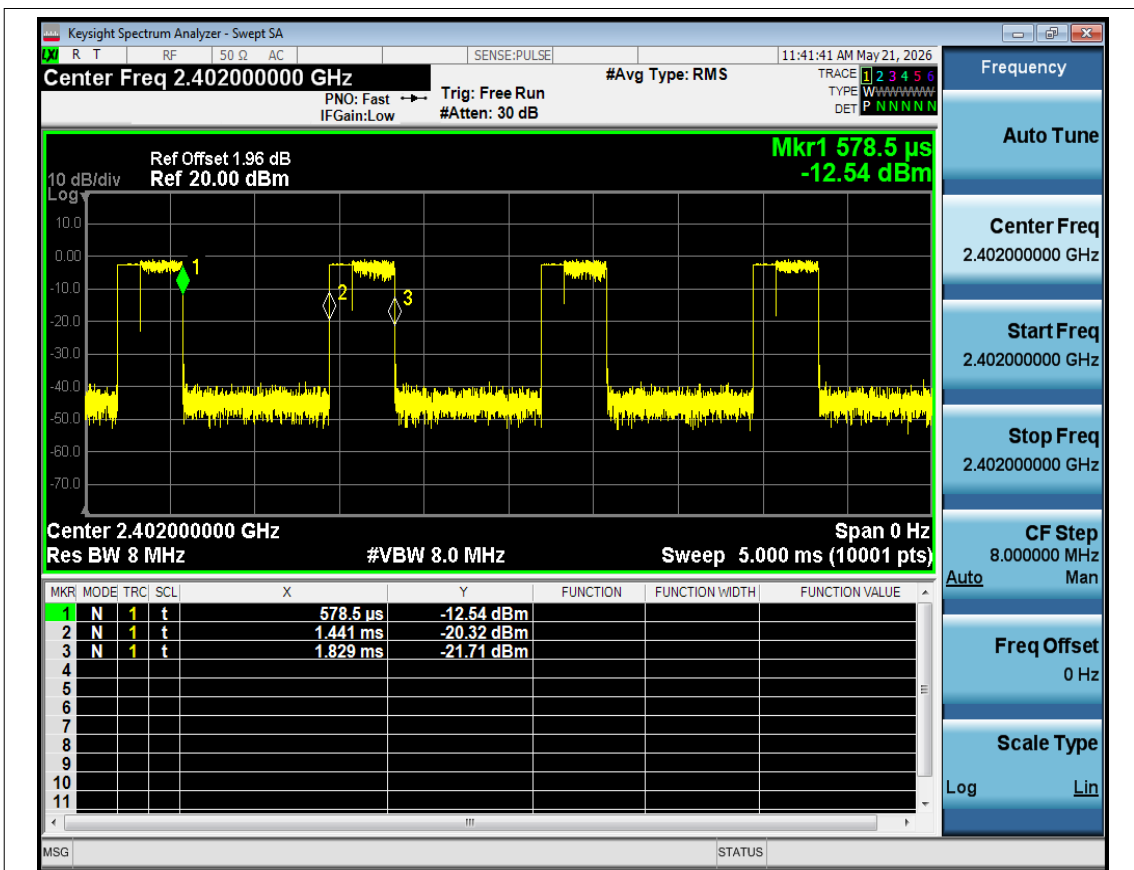
Duty Cycle NVNT 2-DH1 2402MHz Ant1



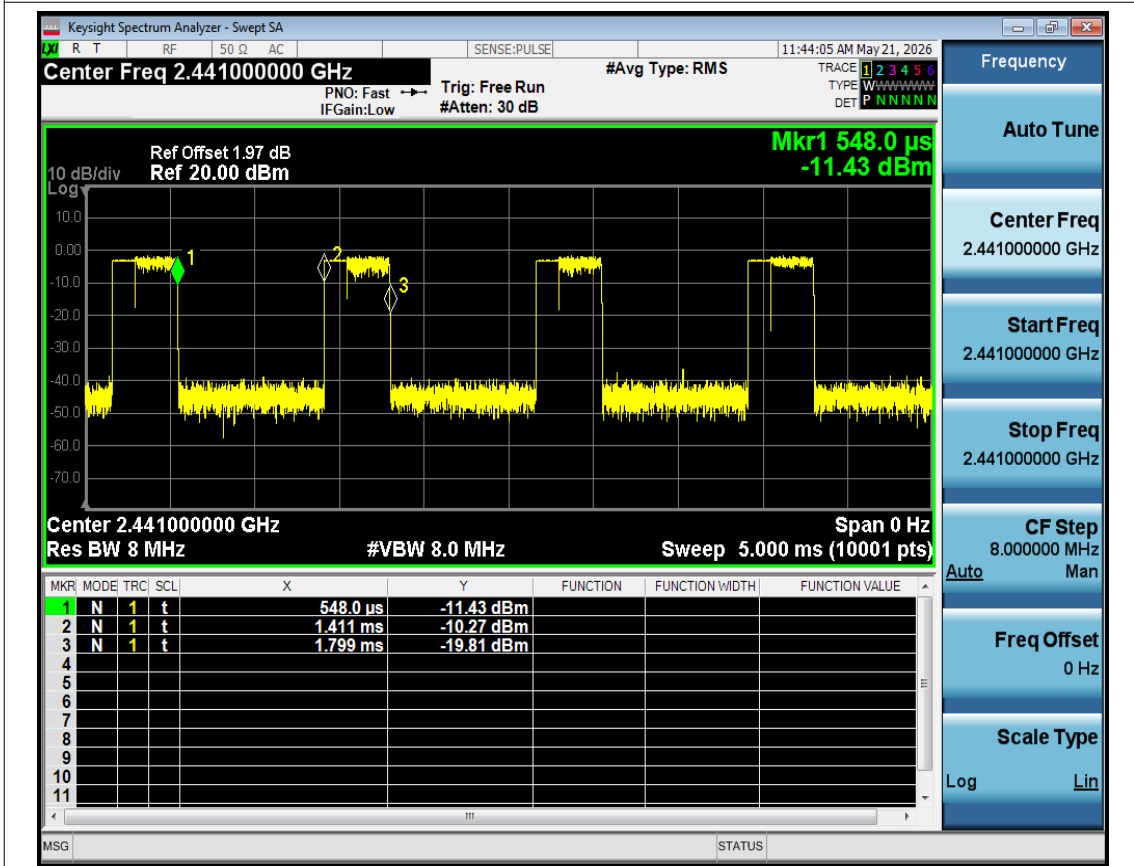
Duty Cycle NVNT 2-DH1 2441MHz Ant1



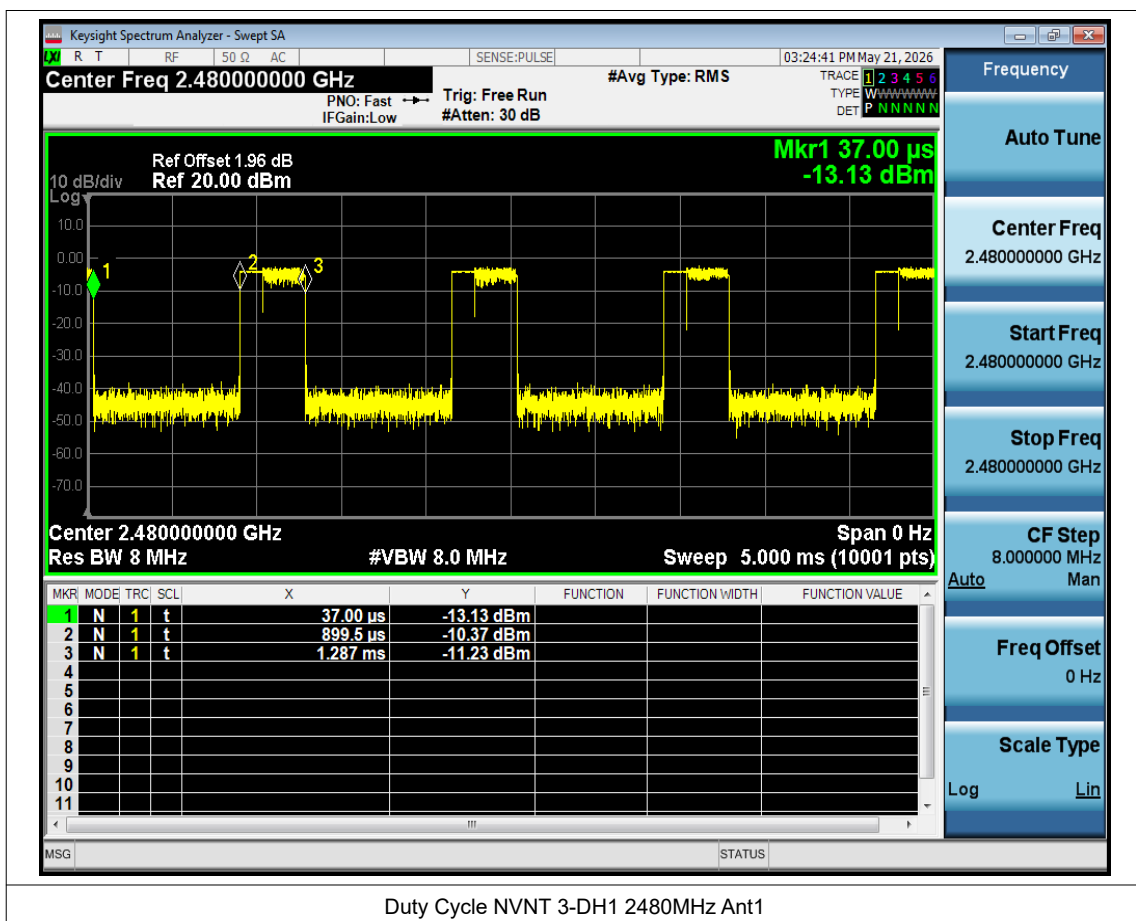
Duty Cycle NVNT 2-DH1 2480MHz Ant1



Duty Cycle NVNT 3-DH1 2402MHz Ant1

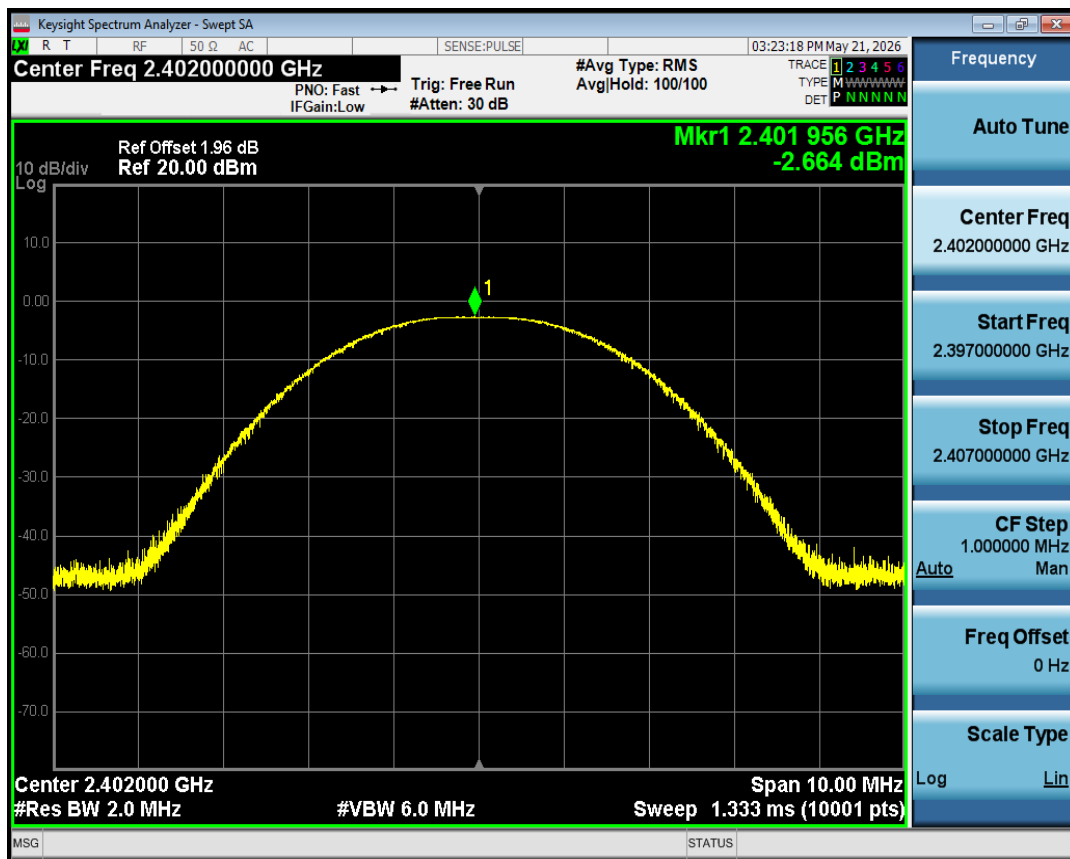


Duty Cycle NVNT 3-DH1 2441MHz Ant1

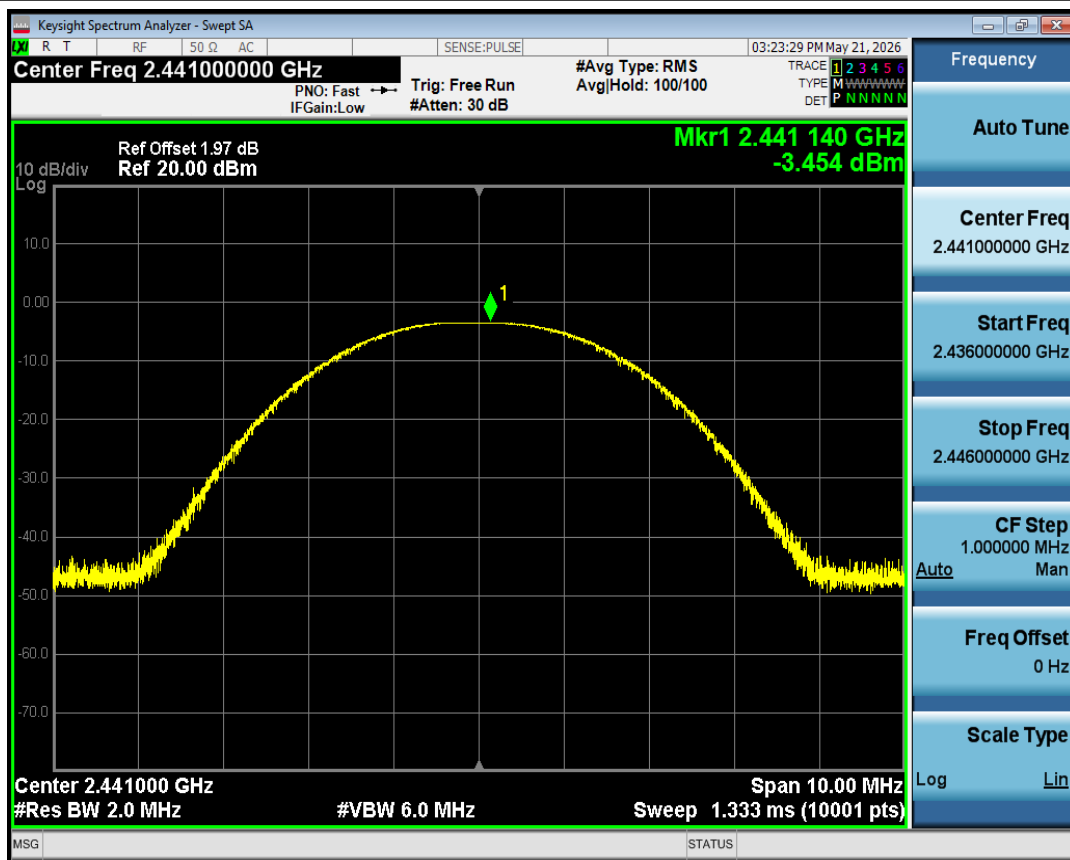


Maximum Peak Conducted Output Power

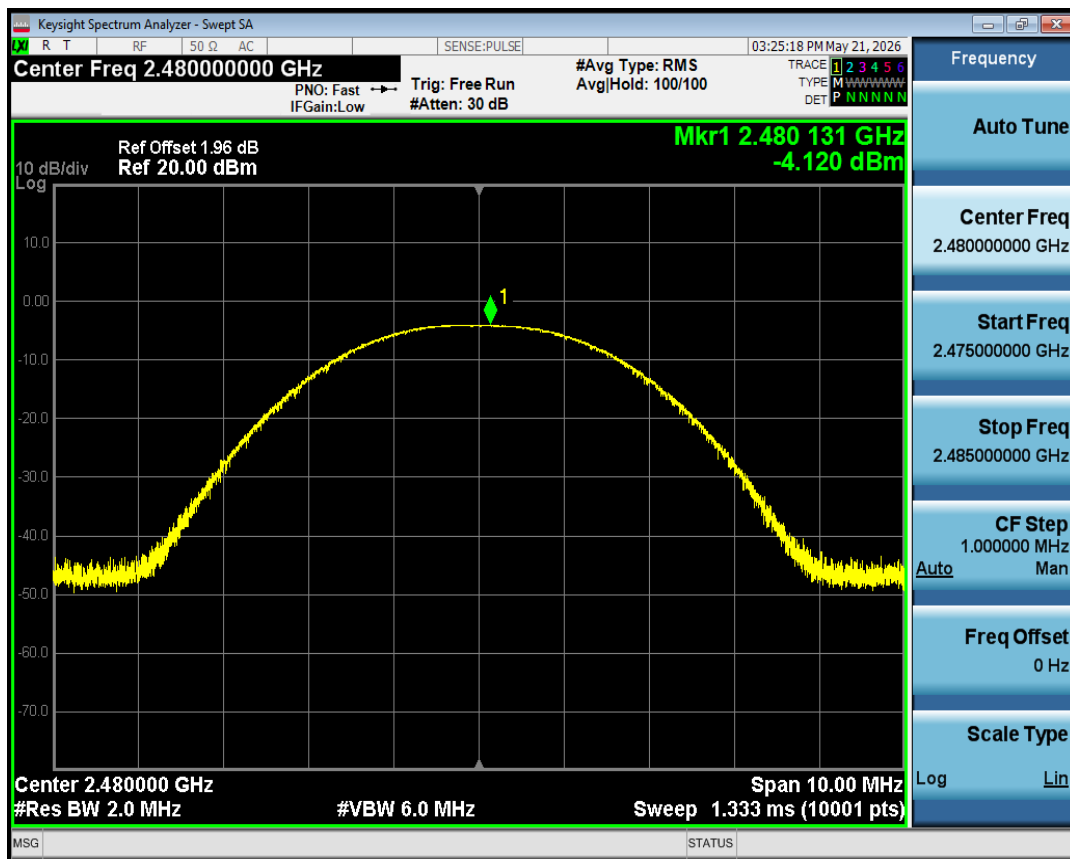
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted(dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-2.66	-2.66	0.00054	21	Pass
NVNT	1-DH1	2441	Ant1	-3.45	-3.45	0.00045	21	Pass
NVNT	1-DH1	2480	Ant1	-4.12	-4.12	0.00039	21	Pass
NVNT	2-DH1	2402	Ant1	-1.84	-1.84	0.00065	21	Pass
NVNT	2-DH1	2441	Ant1	-2.62	-2.62	0.00055	21	Pass
NVNT	2-DH1	2480	Ant1	-3.31	-3.31	0.00047	21	Pass
NVNT	3-DH1	2402	Ant1	-1.26	-1.26	0.00075	21	Pass
NVNT	3-DH1	2441	Ant1	-2	-2	0.00063	21	Pass
NVNT	3-DH1	2480	Ant1	-2.65	-2.65	0.00054	21	Pass



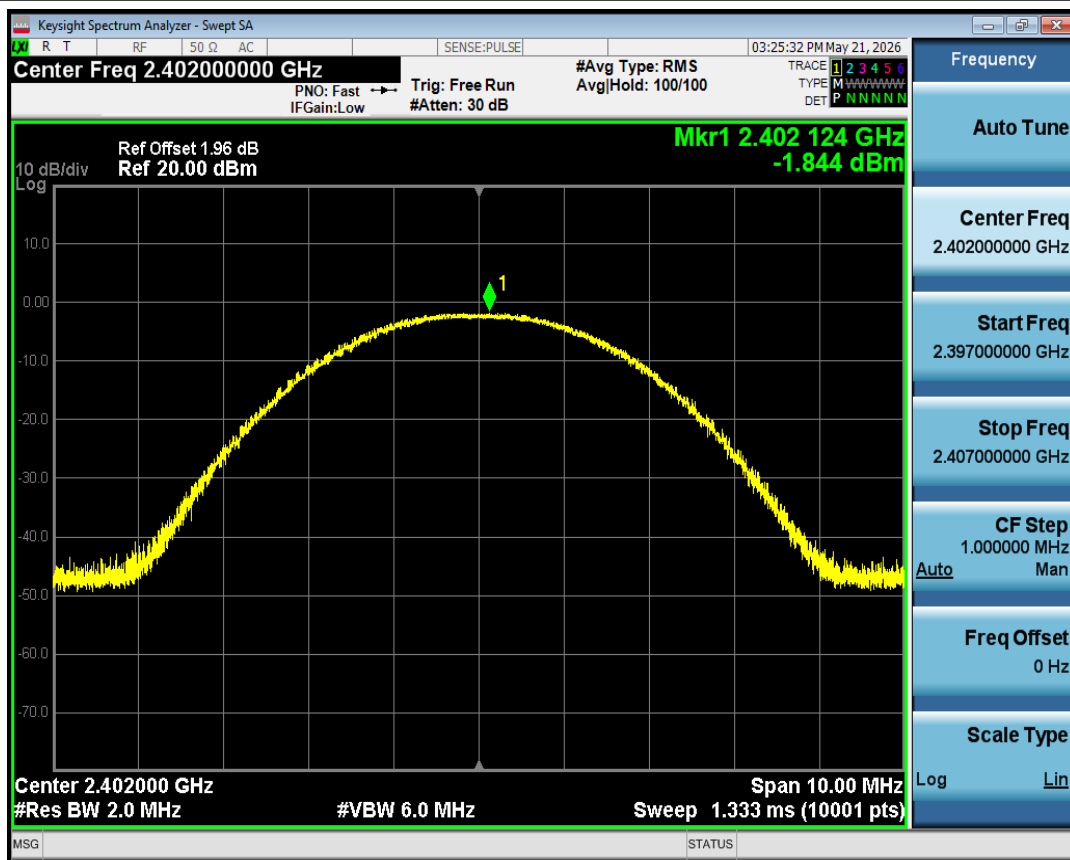
Peak Power NVNT 1-DH1 2402MHz Ant1



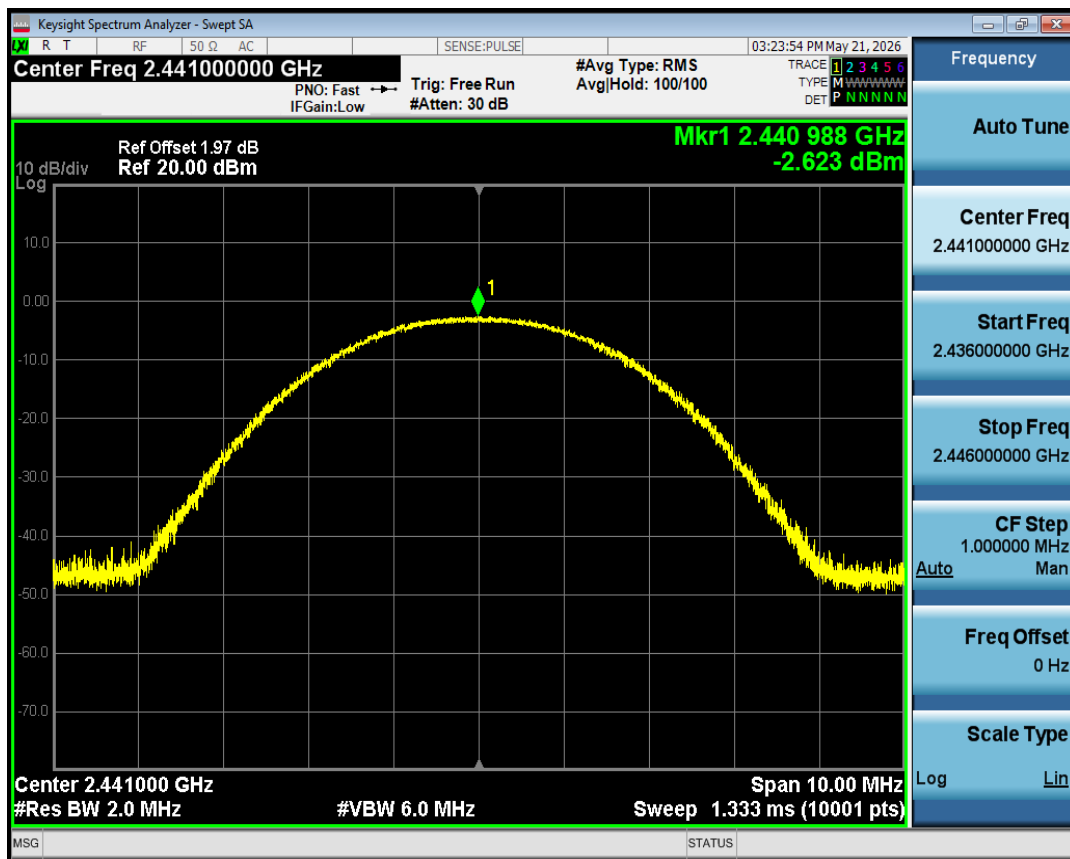
Peak Power NVNT 1-DH1 2441MHz Ant1



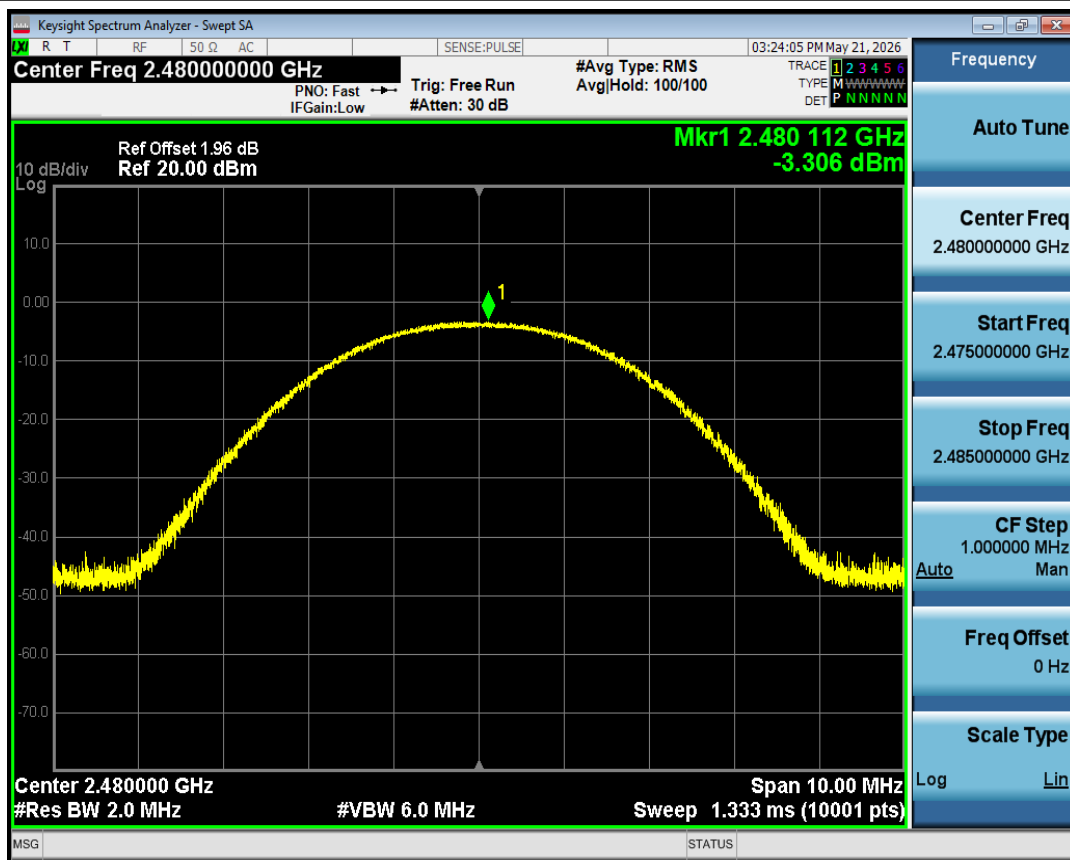
Peak Power NVNT 1-DH1 2480MHz Ant1



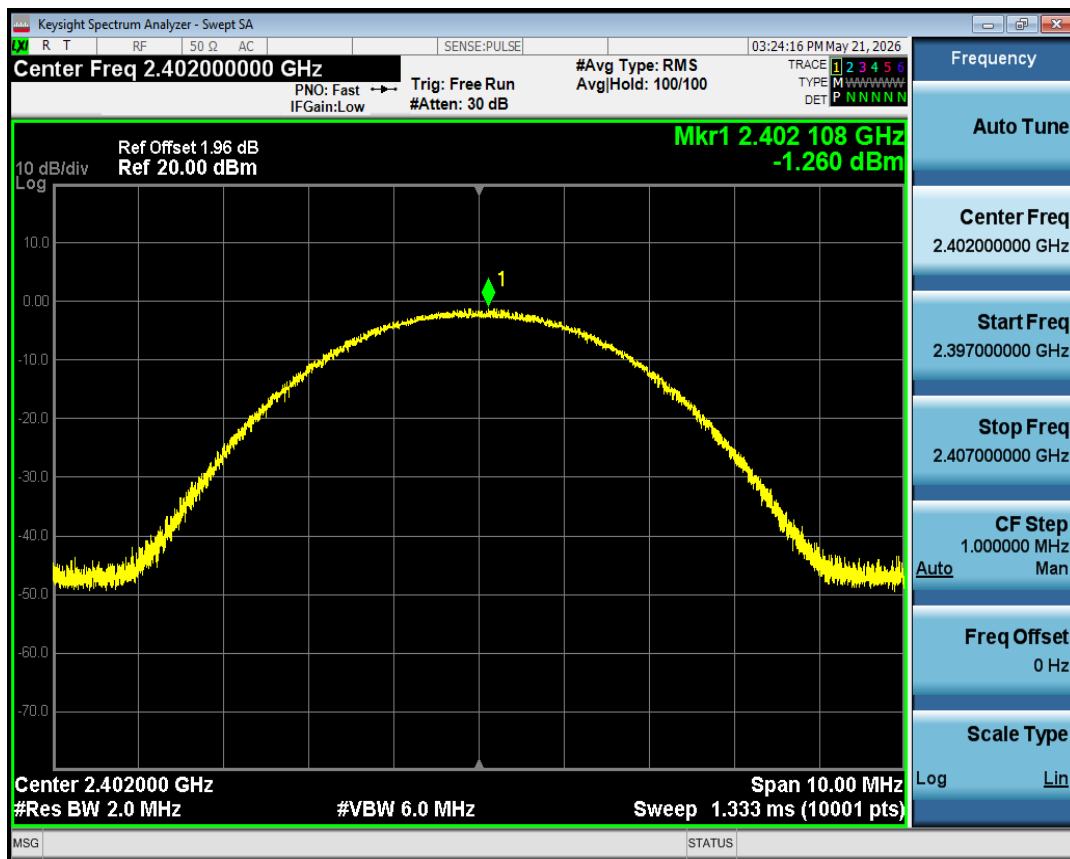
Peak Power NVNT 2-DH1 2402MHz Ant1



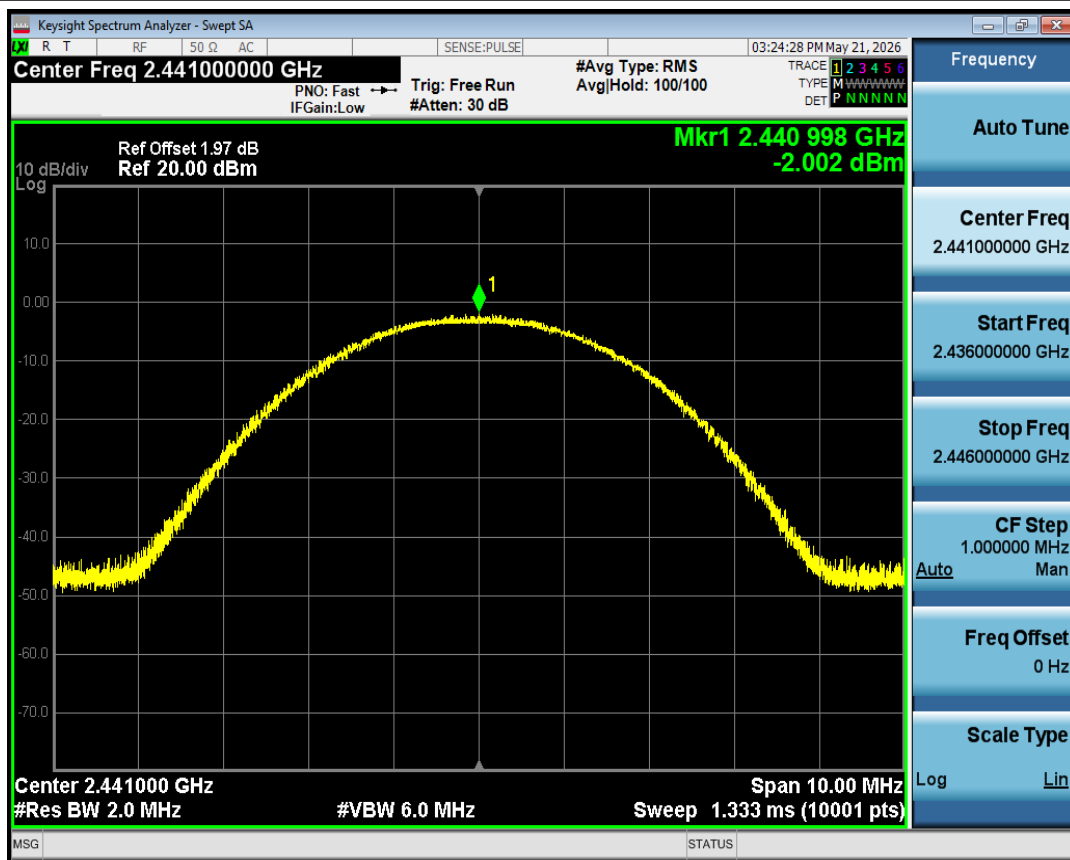
Peak Power NVNT 2-DH1 2441MHz Ant1



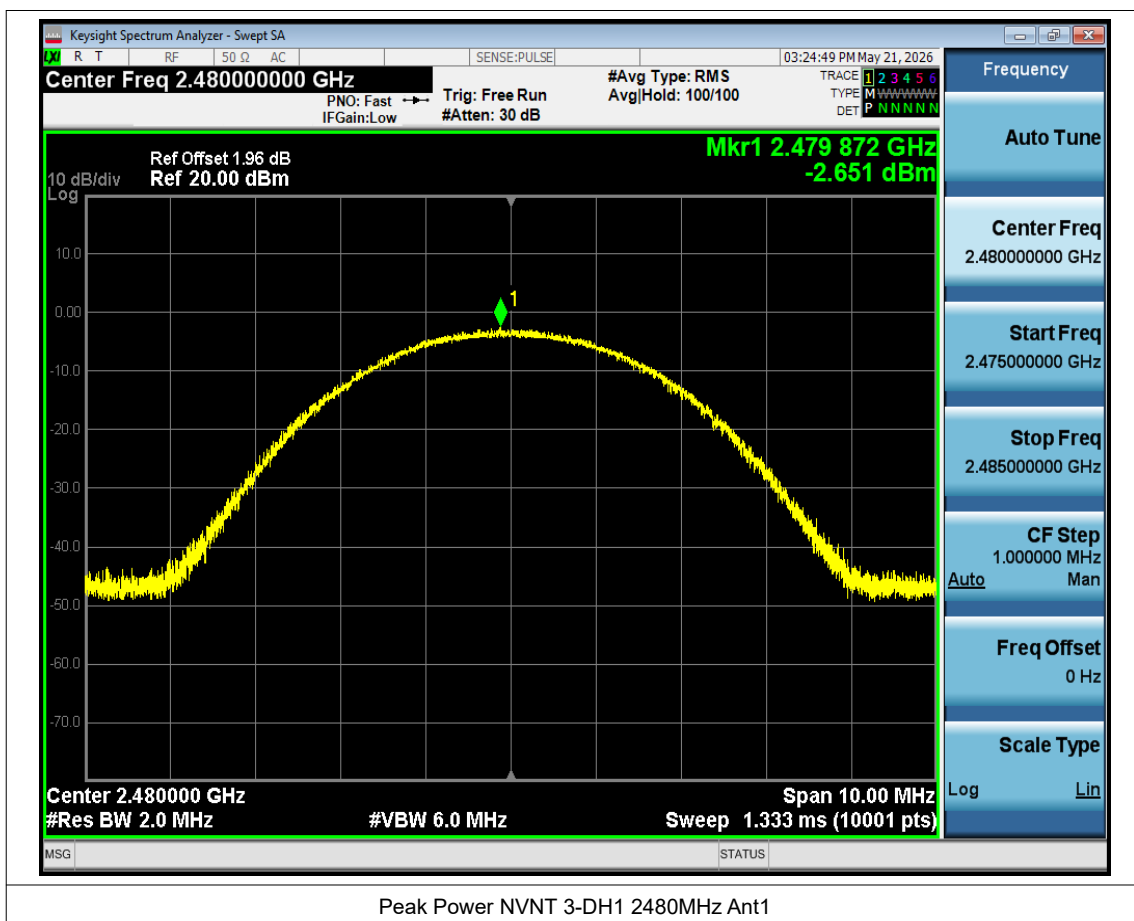
Peak Power NVNT 2-DH1 2480MHz Ant1



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	1.023	Pass
NVNT	1-DH1	2441	Ant1	1.038	Pass
NVNT	1-DH1	2480	Ant1	1.028	Pass
NVNT	2-DH1	2402	Ant1	1.293	Pass
NVNT	2-DH1	2441	Ant1	1.241	Pass
NVNT	2-DH1	2480	Ant1	1.315	Pass
NVNT	3-DH1	2402	Ant1	1.255	Pass
NVNT	3-DH1	2441	Ant1	1.238	Pass
NVNT	3-DH1	2480	Ant1	1.252	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

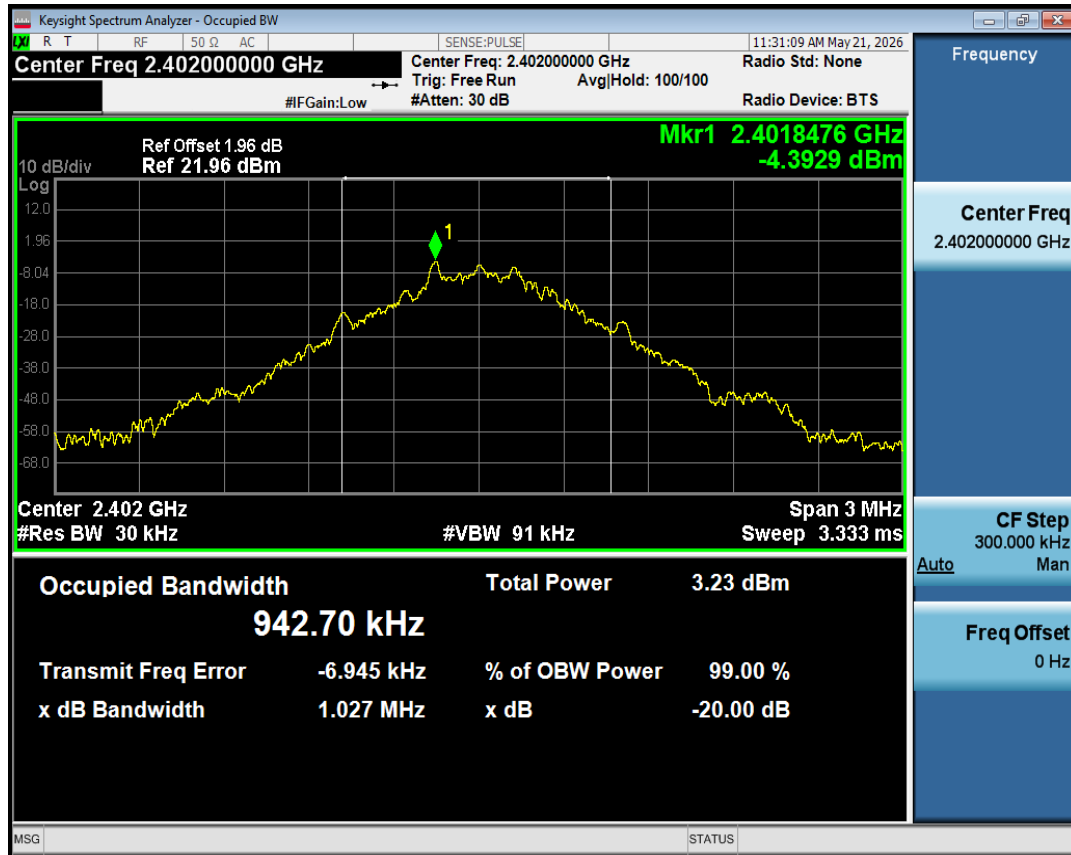


-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1

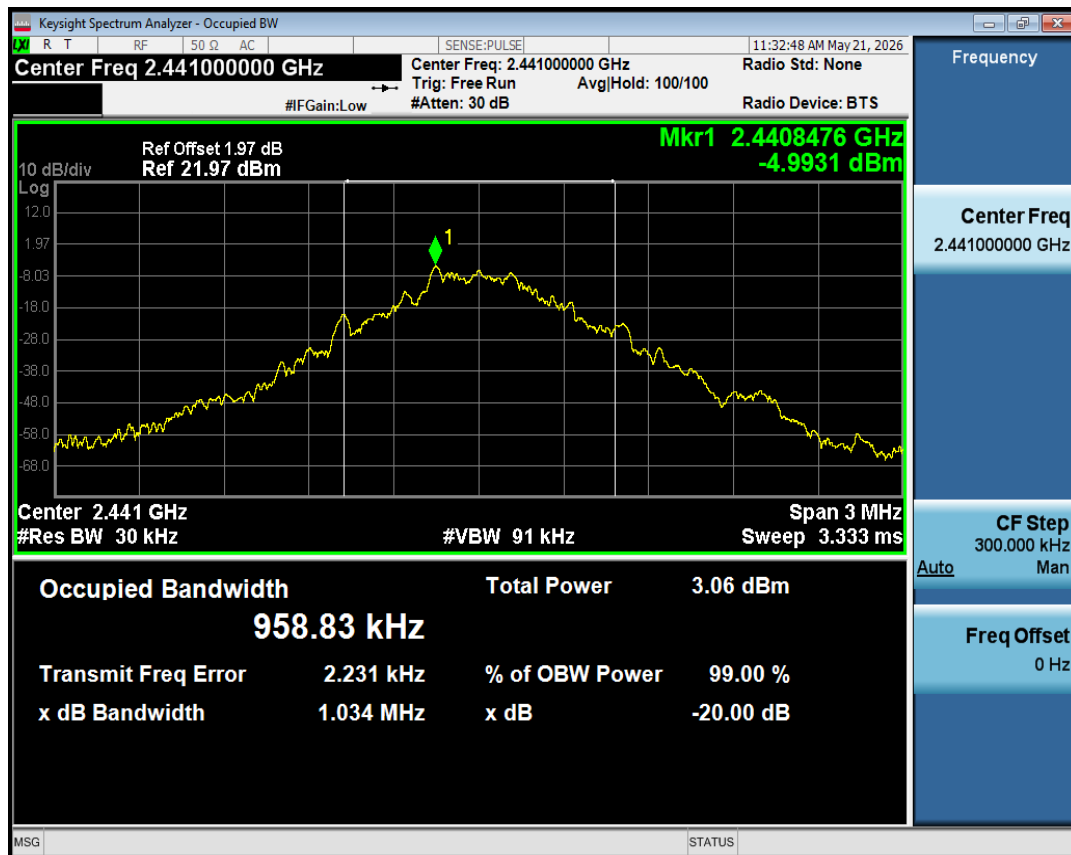


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.9427
NVNT	1-DH1	2441	Ant1	0.95883
NVNT	1-DH1	2480	Ant1	0.9709
NVNT	2-DH1	2402	Ant1	1.1631
NVNT	2-DH1	2441	Ant1	1.1853
NVNT	2-DH1	2480	Ant1	1.1758
NVNT	3-DH1	2402	Ant1	1.1791
NVNT	3-DH1	2441	Ant1	1.1836
NVNT	3-DH1	2480	Ant1	1.1894



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

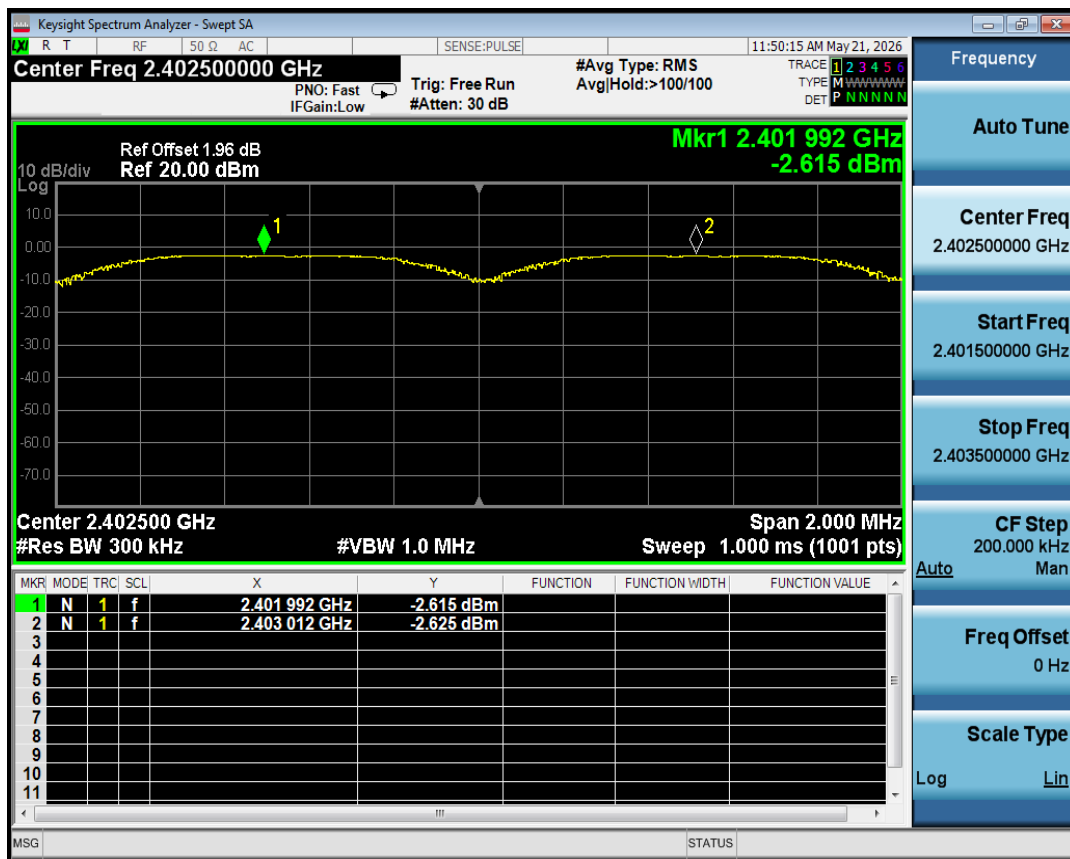


OBW NVNT 3-DH1 2441MHz Ant1

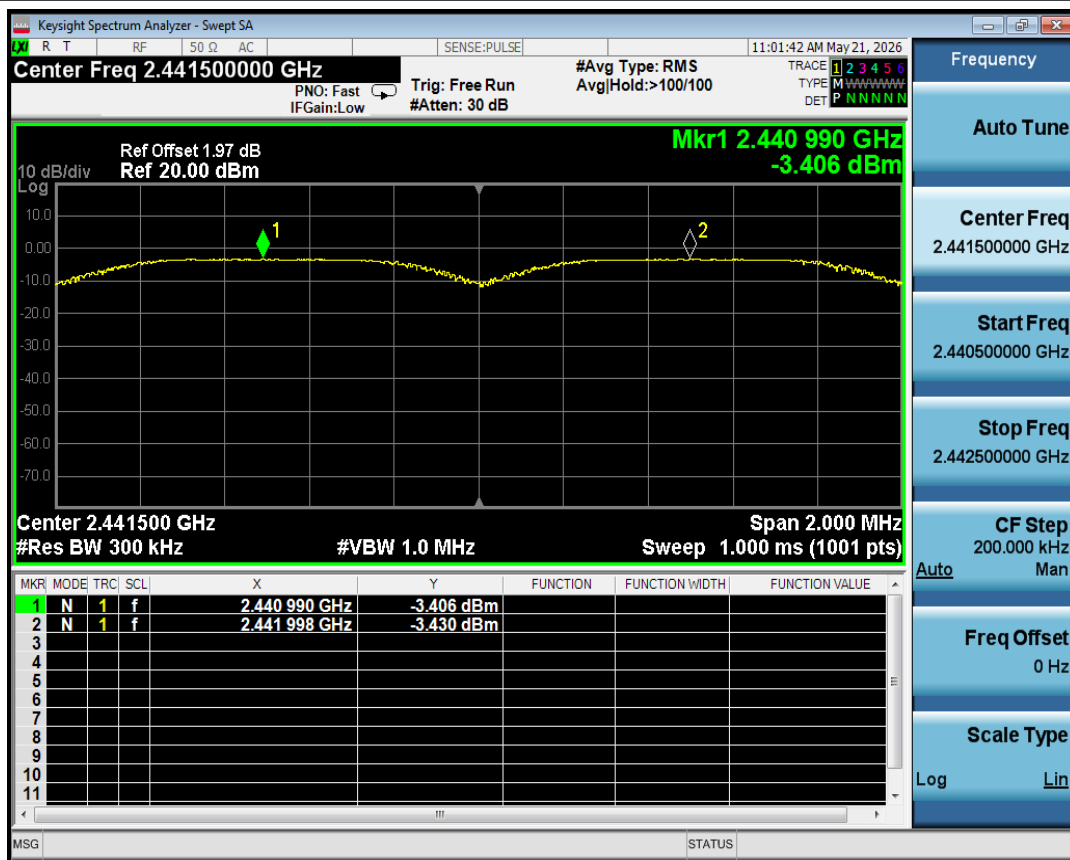


Carrier Frequencies Separation

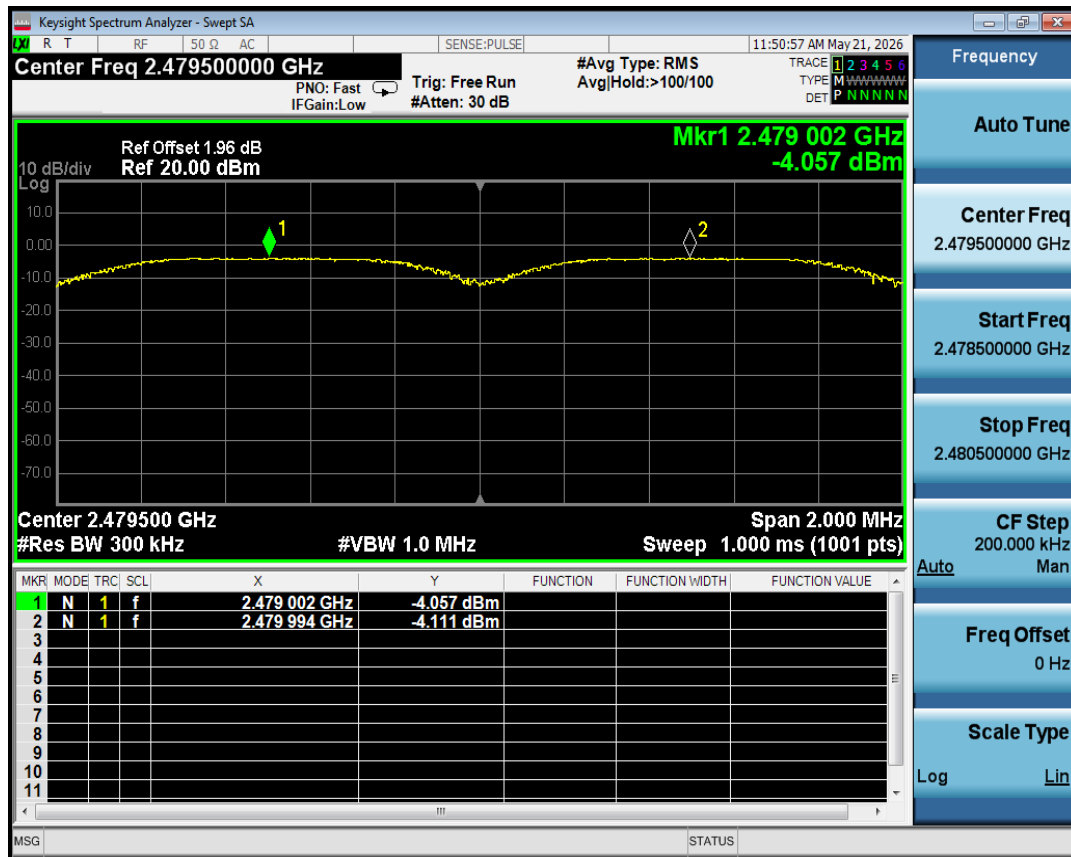
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2401.992	2403.012	1.02	0.682	Pass
NVNT	1-DH1	Ant1	2440.99	2441.998	1.008	0.692	Pass
NVNT	1-DH1	Ant1	2479.002	2479.994	0.992	0.685	Pass
NVNT	2-DH1	Ant1	2401.998	2403	1.002	0.862	Pass
NVNT	2-DH1	Ant1	2440.994	2442.006	1.012	0.827	Pass
NVNT	2-DH1	Ant1	2479.012	2479.992	0.98	0.877	Pass
NVNT	3-DH1	Ant1	2401.992	2402.992	1	0.837	Pass
NVNT	3-DH1	Ant1	2440.992	2442.002	1.01	0.825	Pass
NVNT	3-DH1	Ant1	2478.998	2479.998	1	0.835	Pass



CFS NVNT 1-DH1 2402MHz Ant1



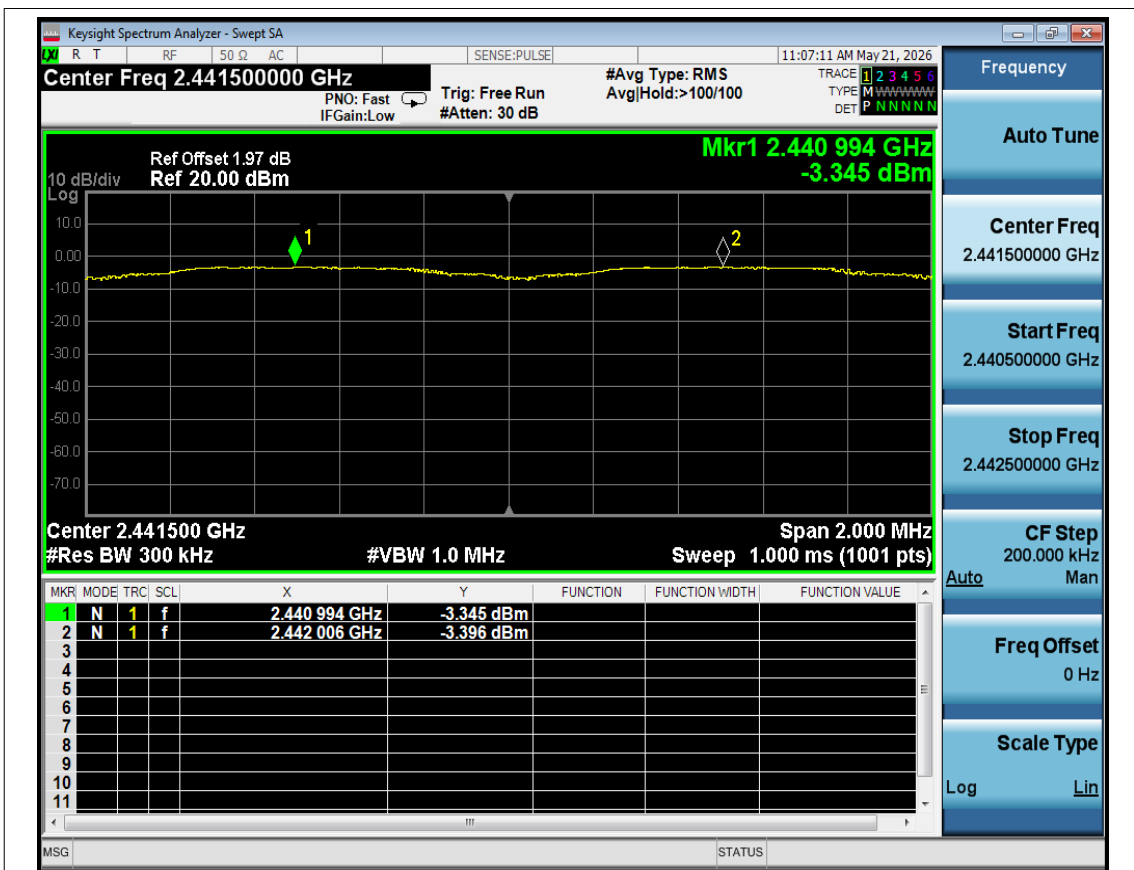
CFS NVNT 1-DH1 2441MHz Ant1



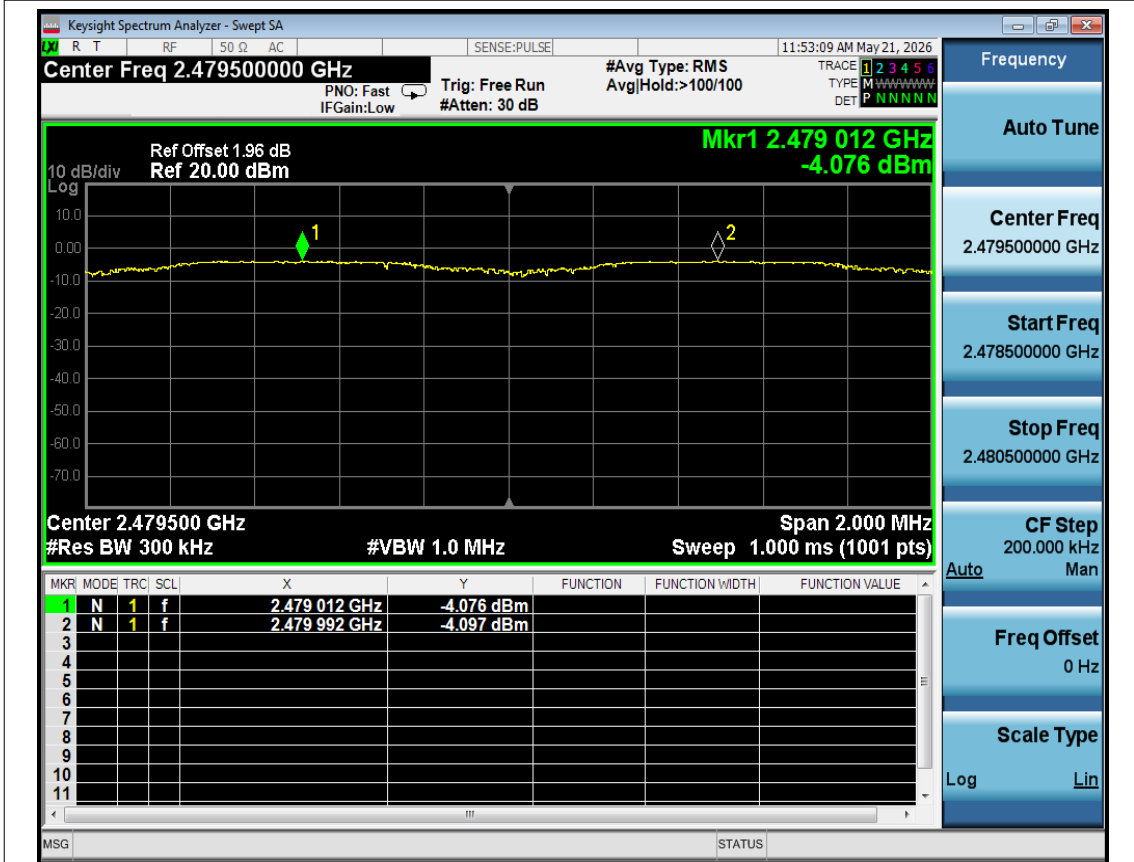
CFS NVNT 1-DH1 2480MHz Ant1



CFS NVNT 2-DH1 2402MHz Ant1



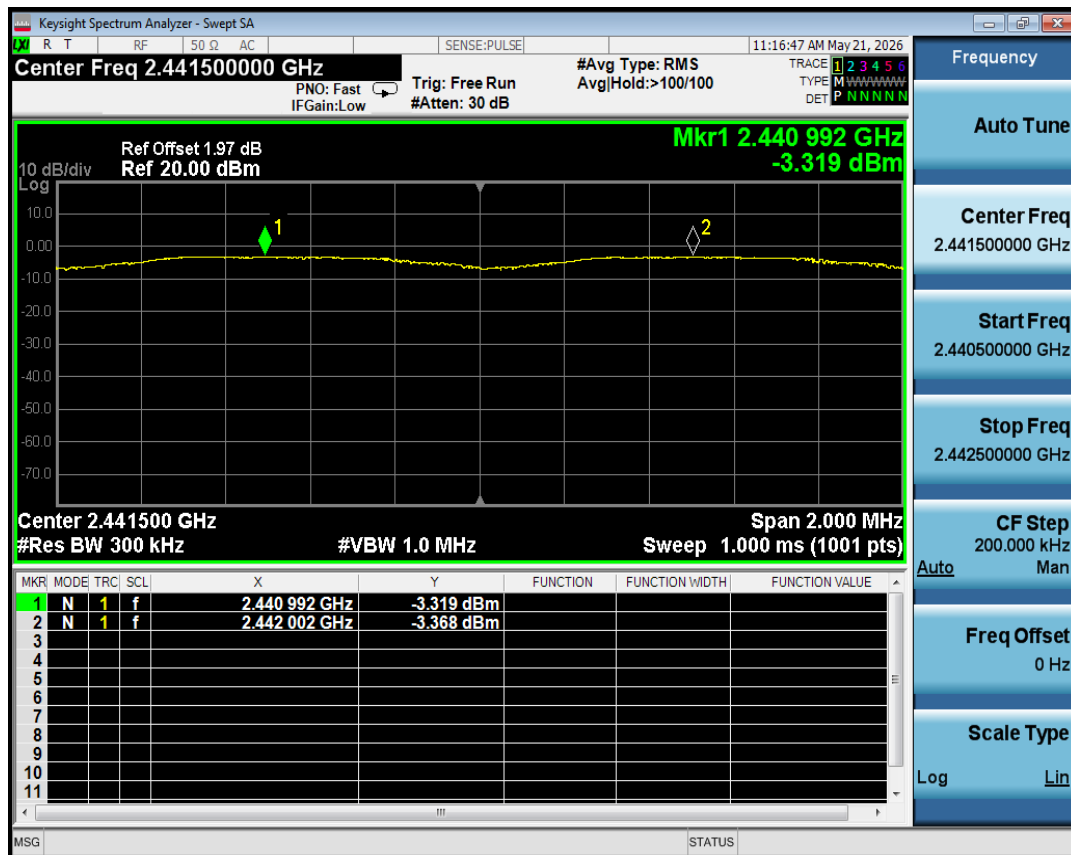
CFS NVNT 2-DH1 2441MHz Ant1



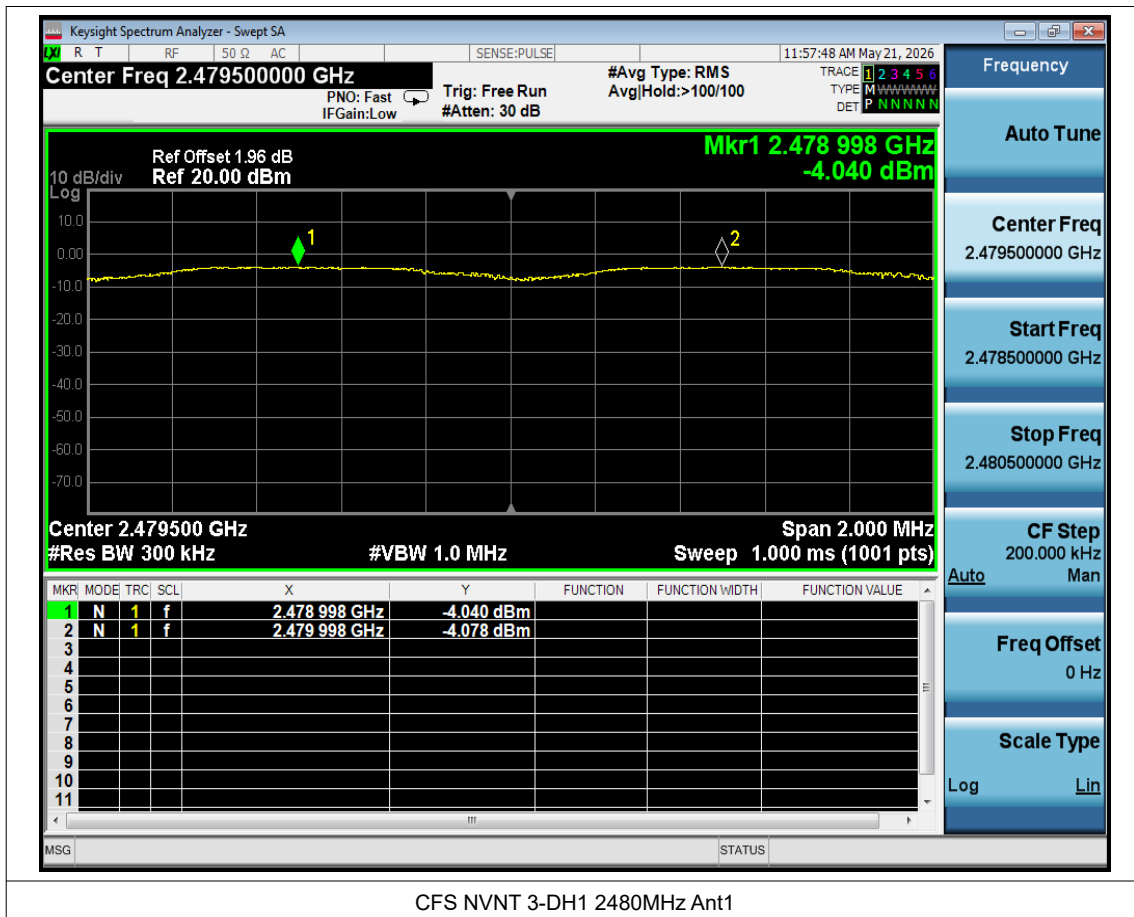
CFS NVNT 2-DH1 2480MHz Ant1



CFS NVNT 3-DH1 2402MHz Ant1

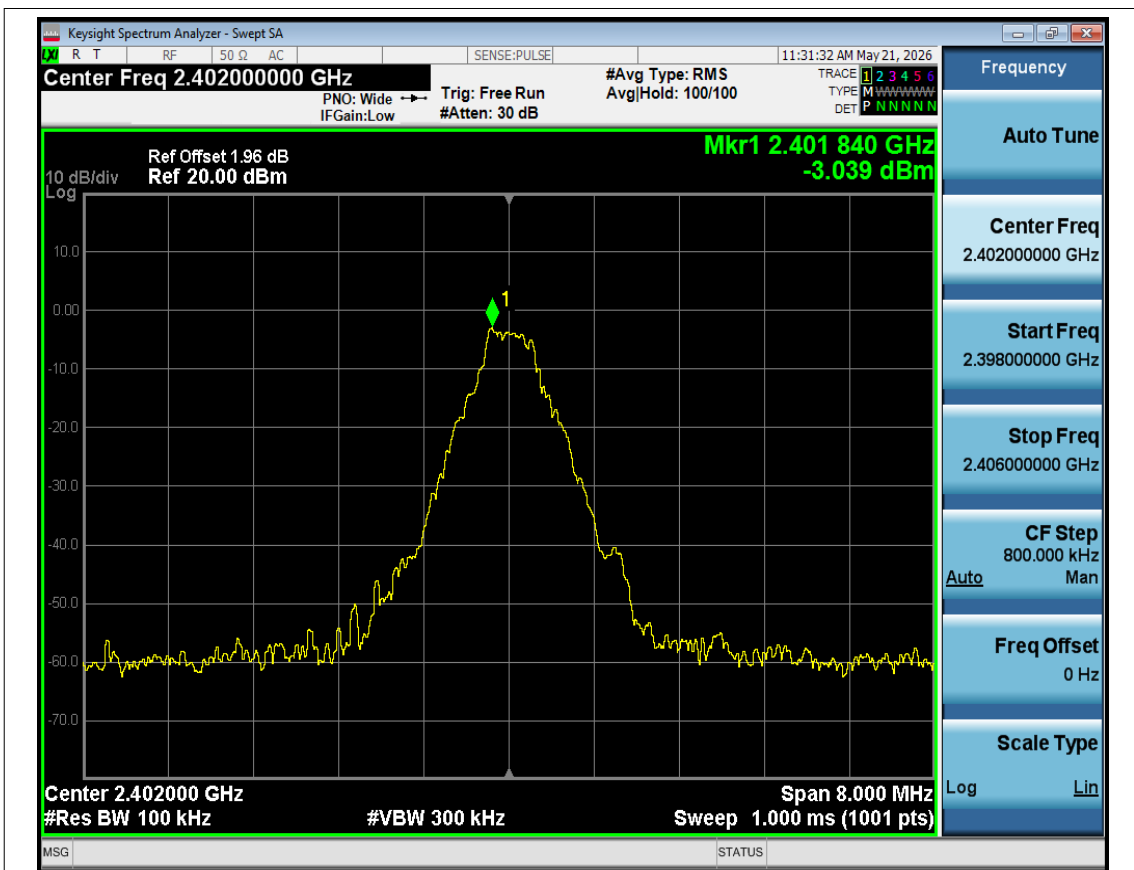


CFS NVNT 3-DH1 2441MHz Ant1

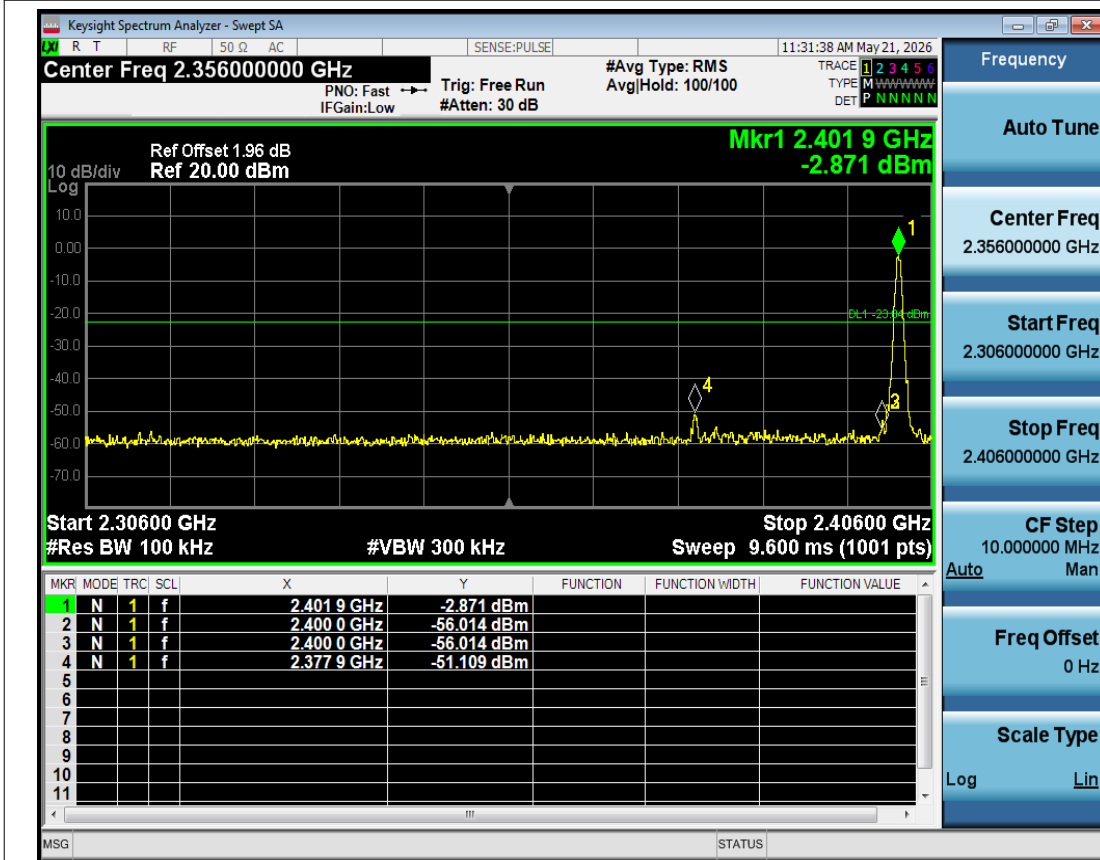


Band Edge

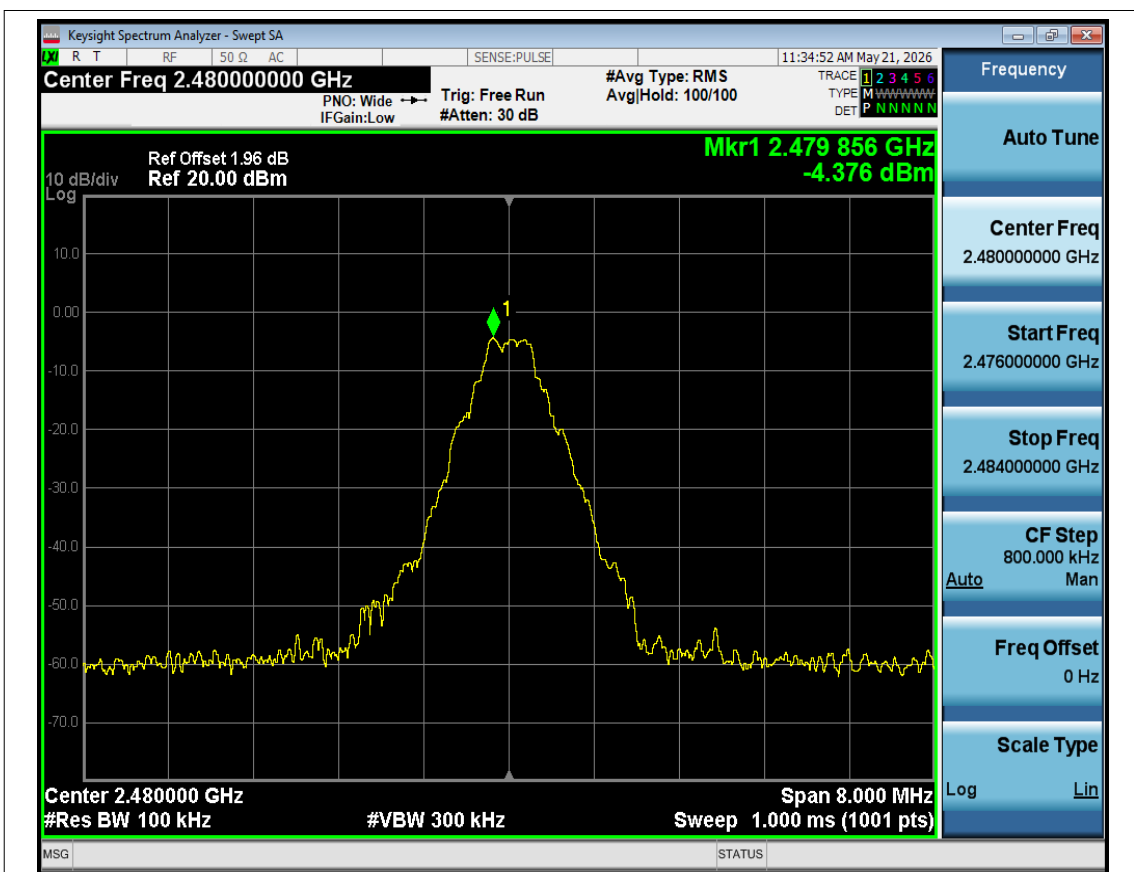
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-48.06	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-51.8	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-48.04	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-51.2	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-49.06	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-50.6	-20	Pass



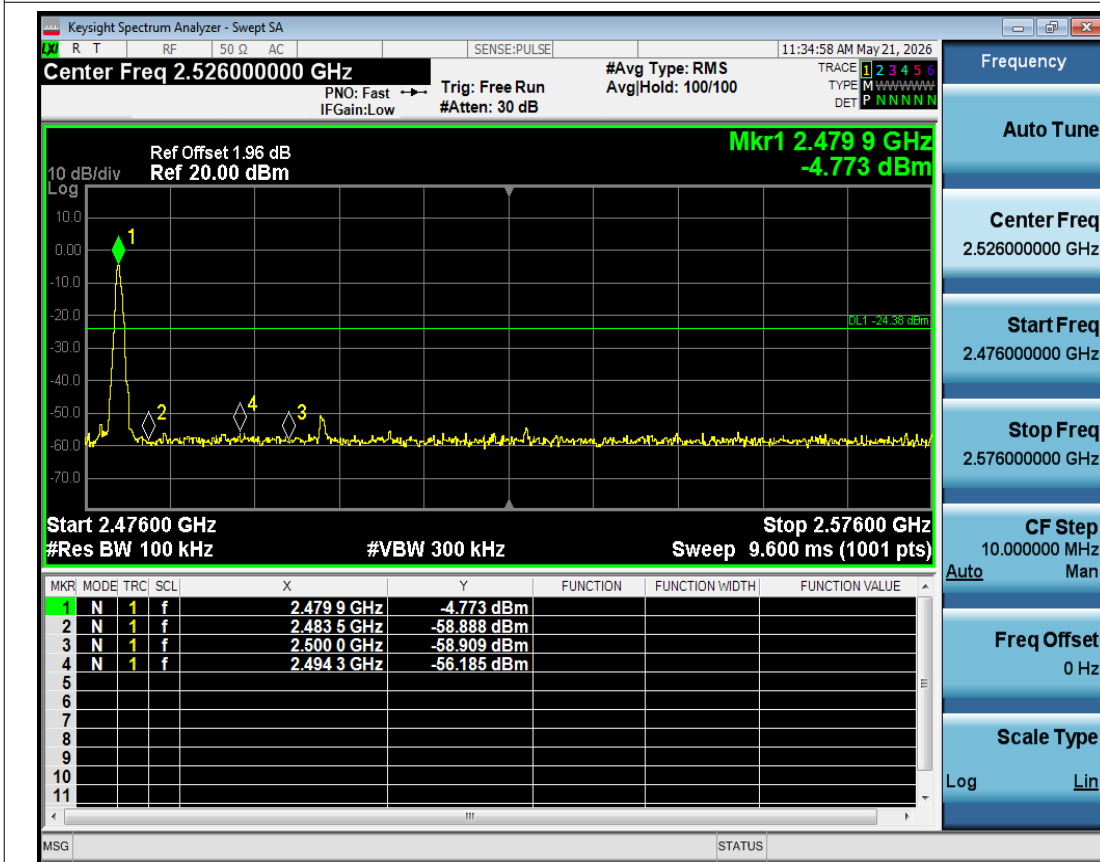
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



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



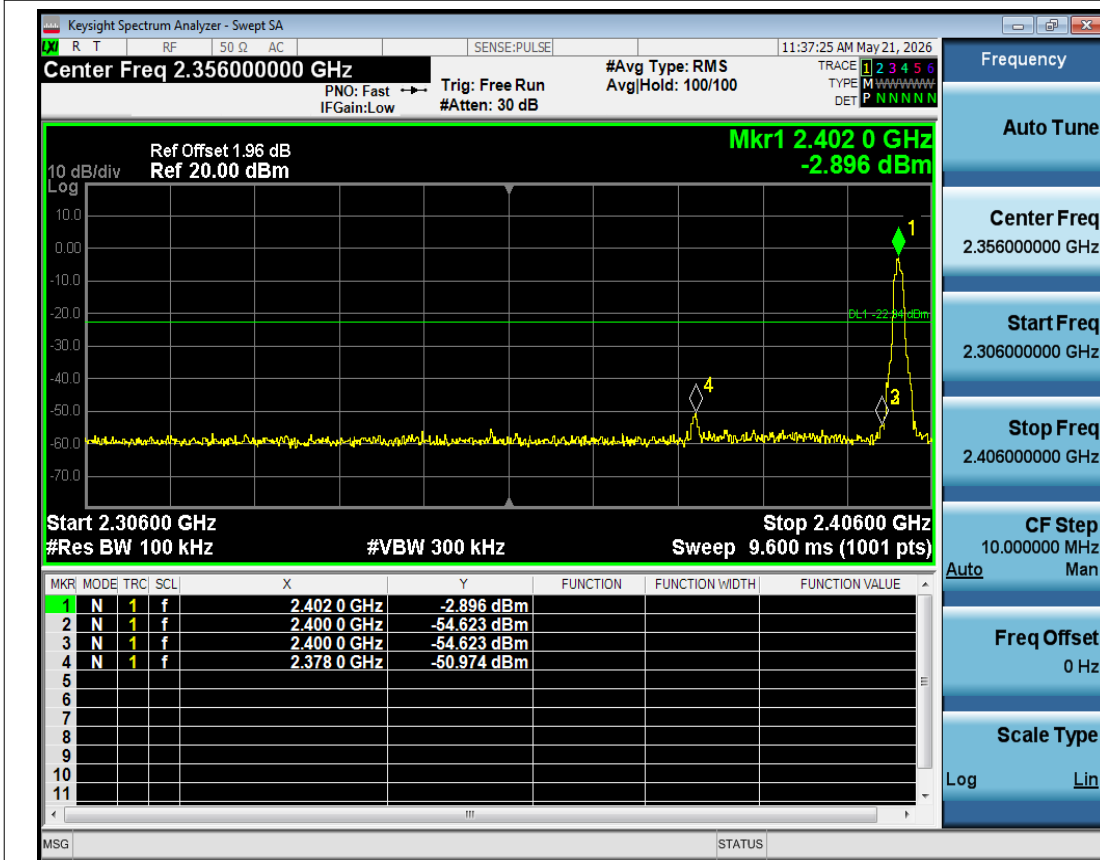
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



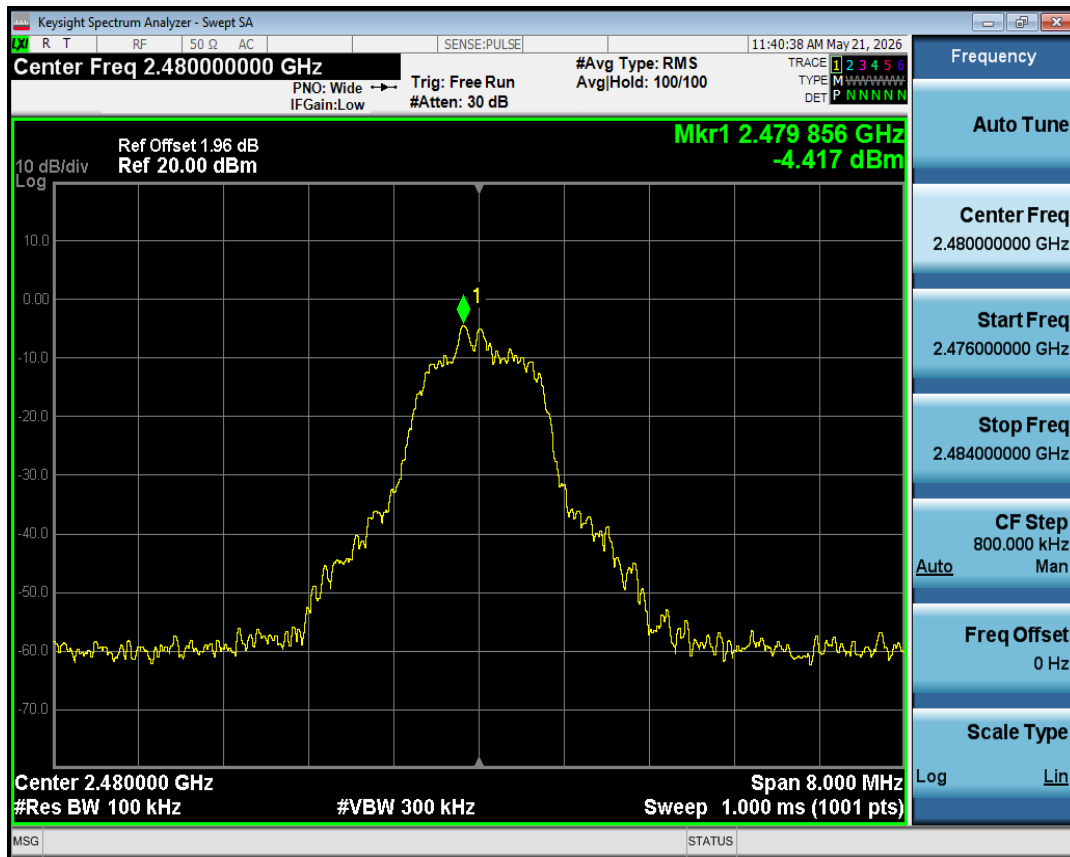
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



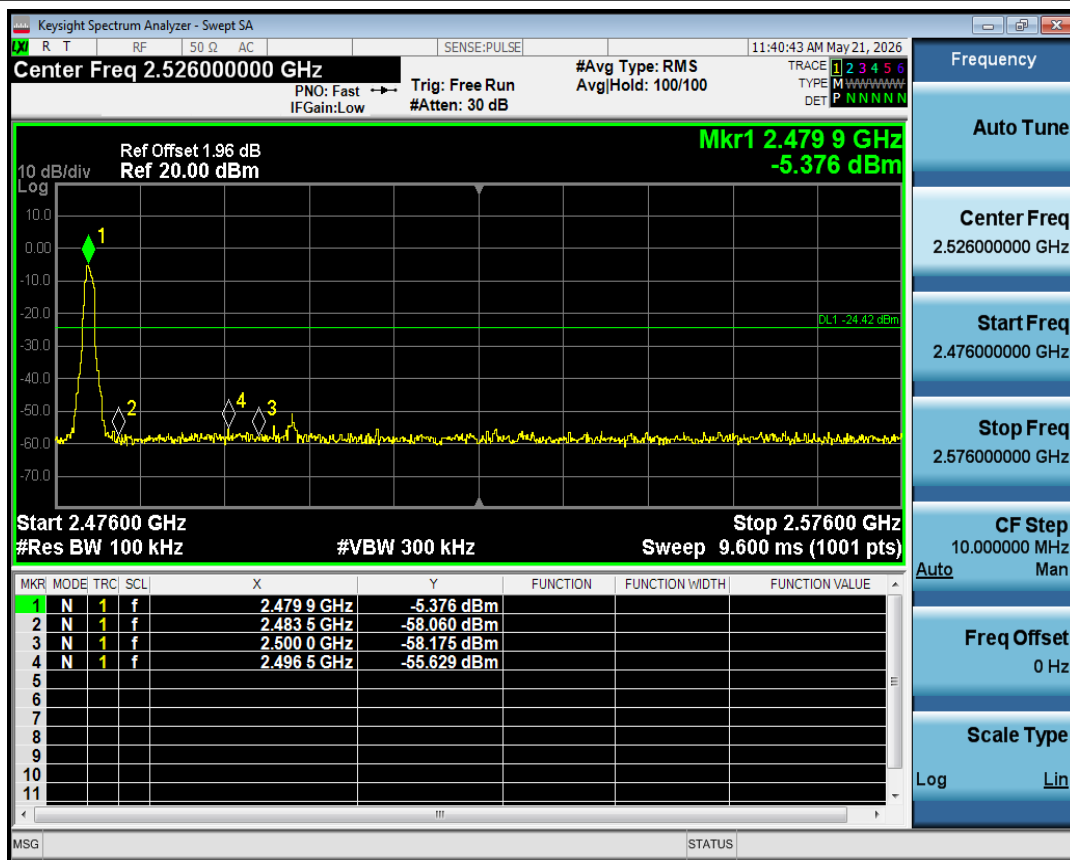
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



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



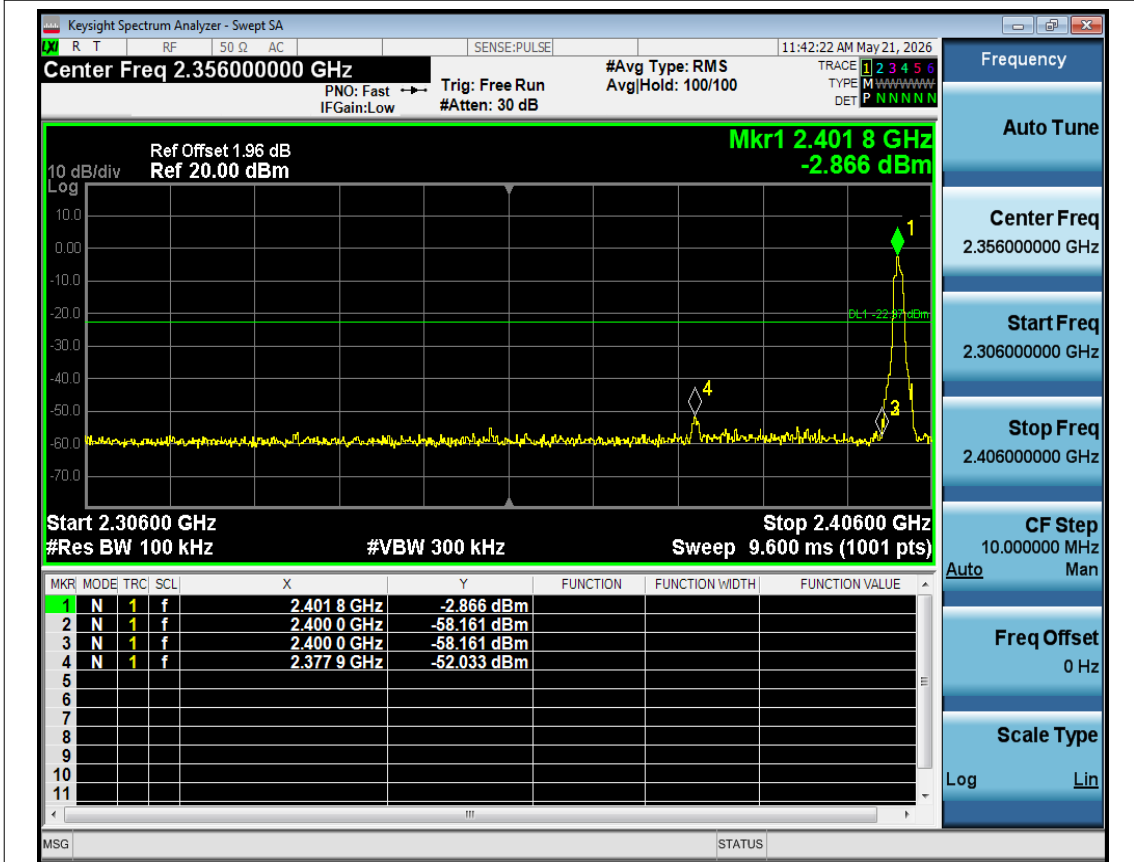
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



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



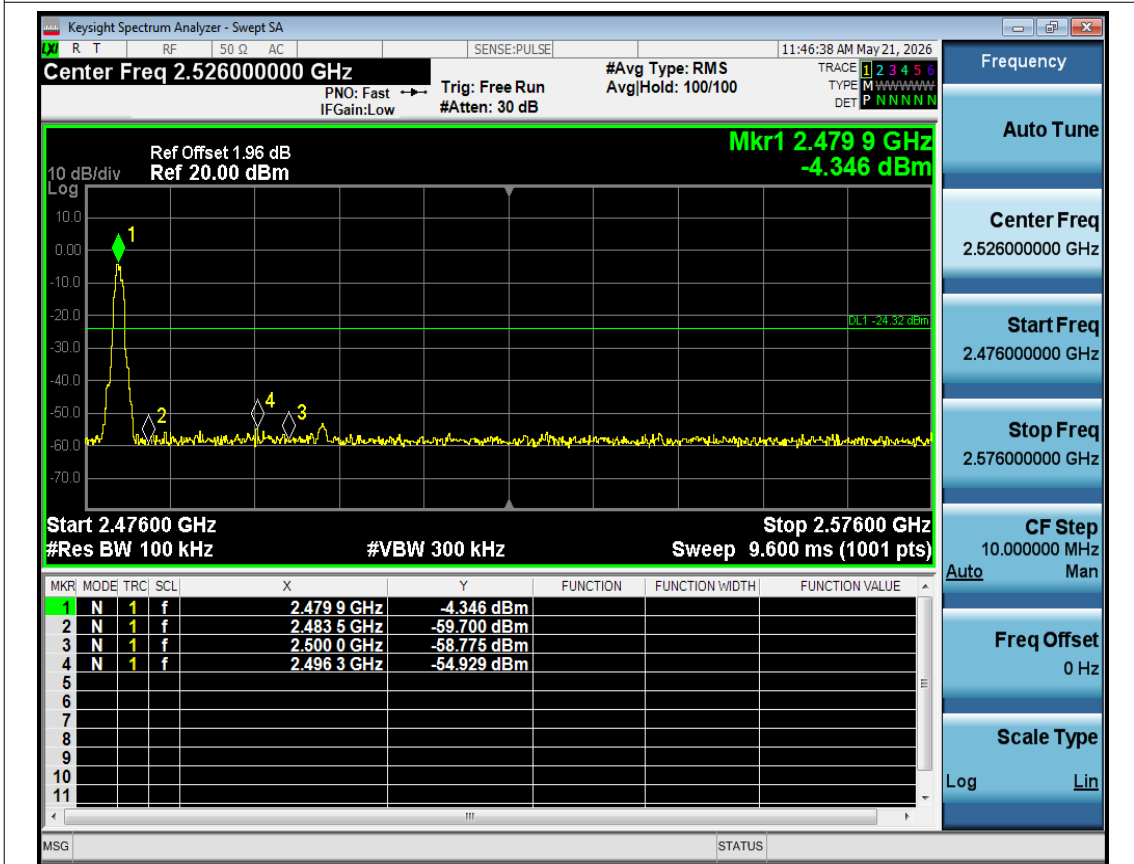
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



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



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



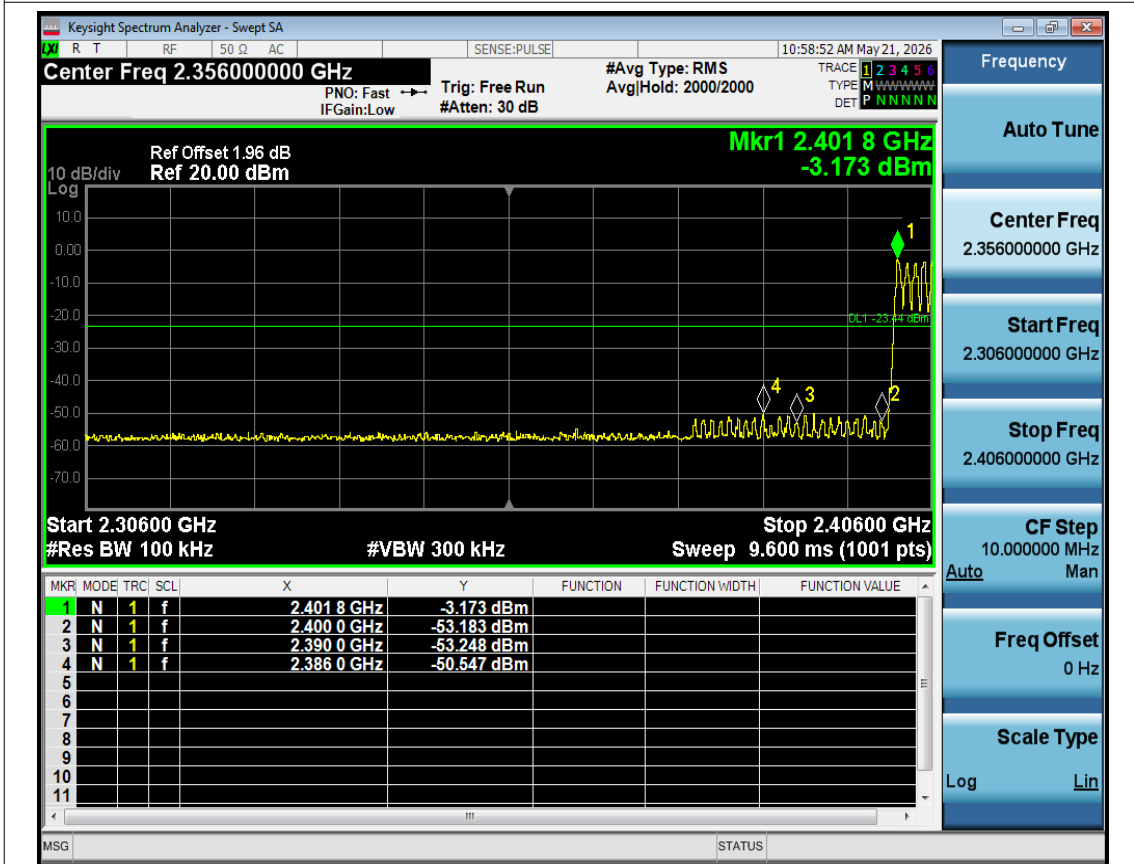
Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission

Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-47.1	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-47.29	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-47.76	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-47.06	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-49.04	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-48.12	-20	Pass



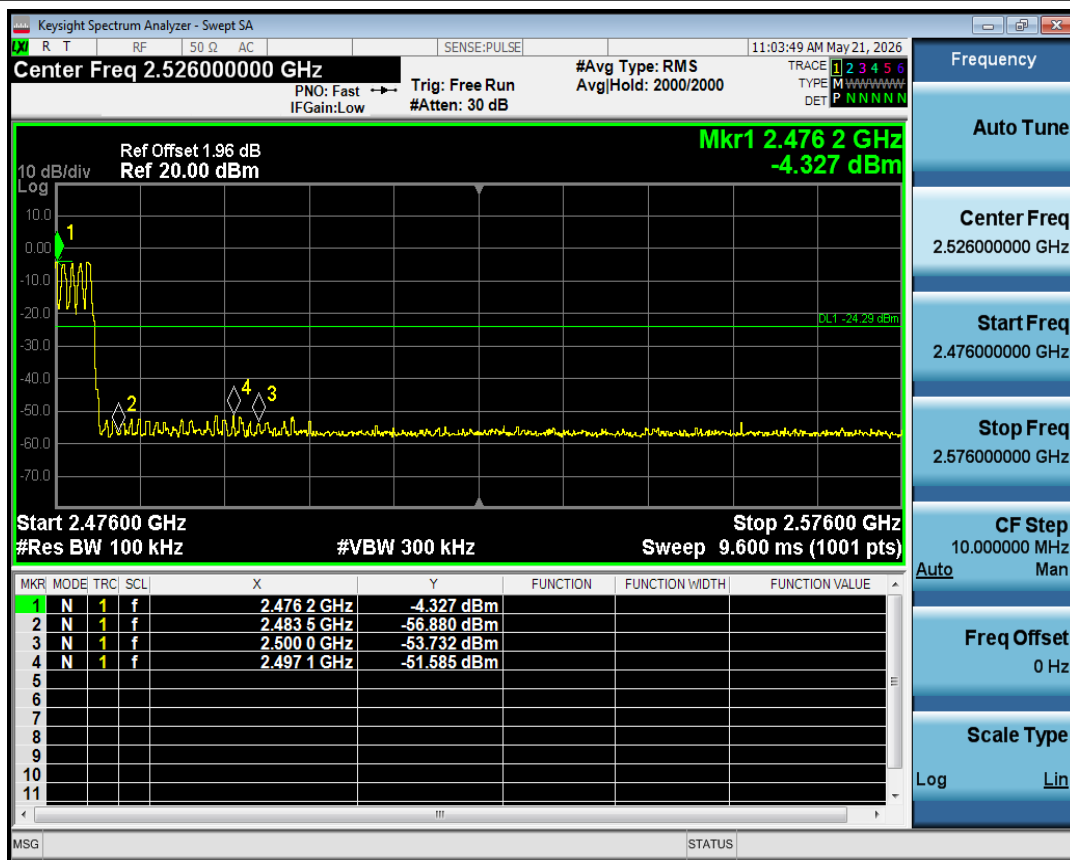
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



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



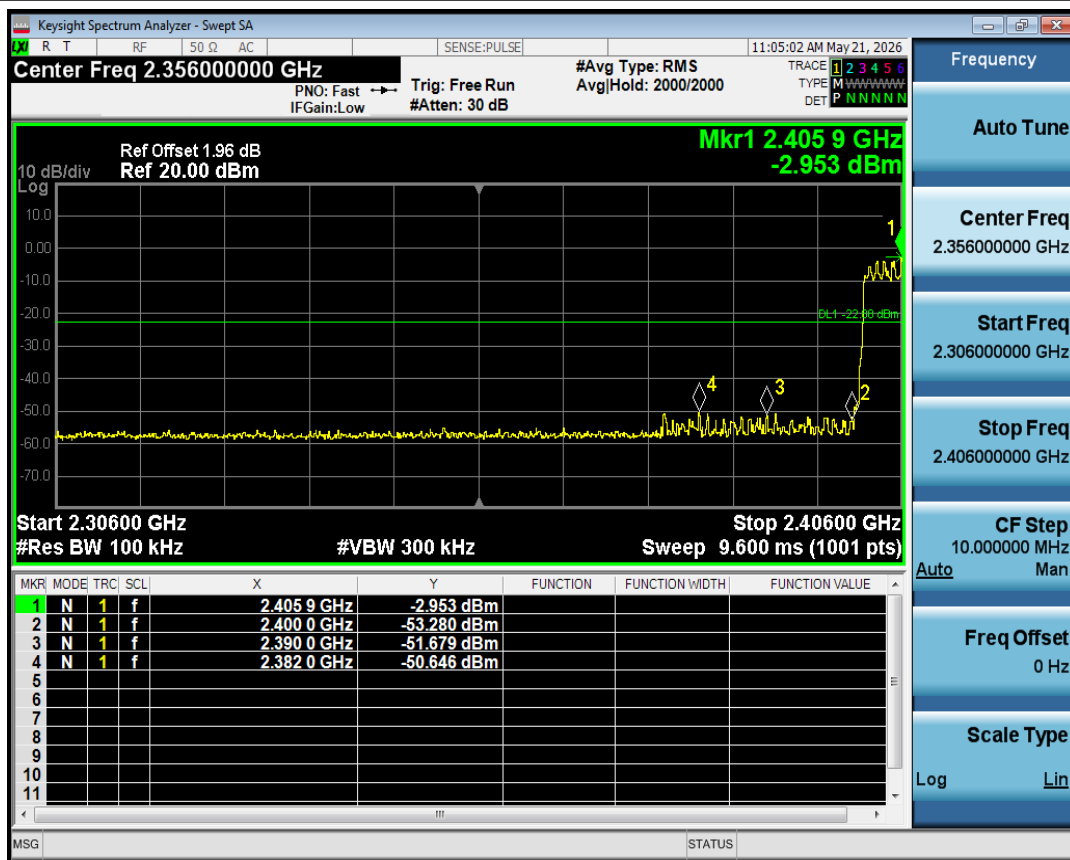
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



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



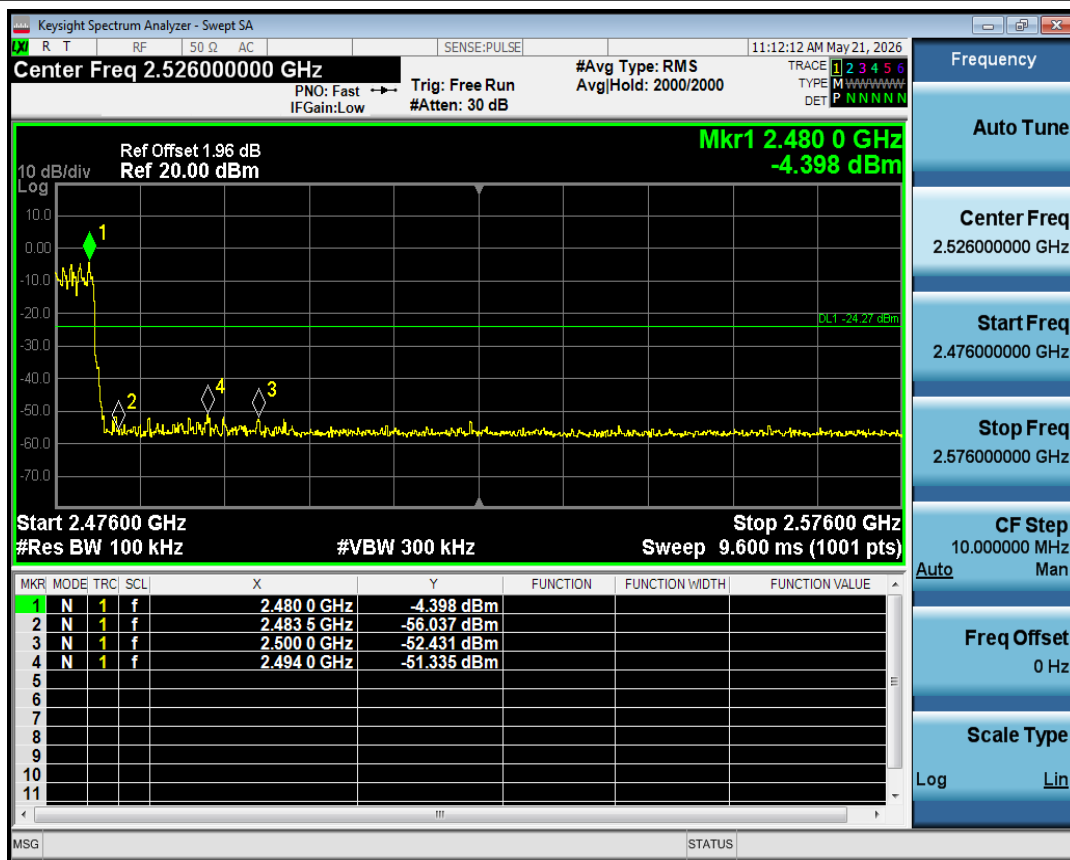
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



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



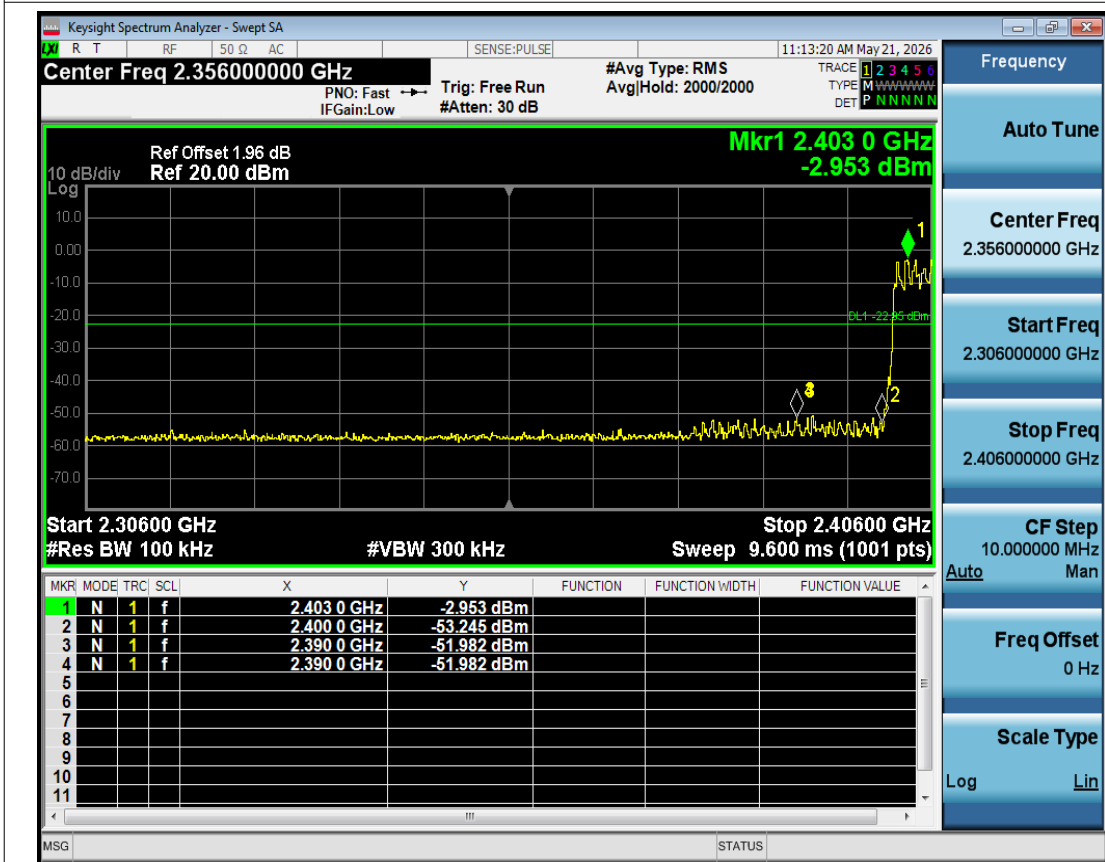
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



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



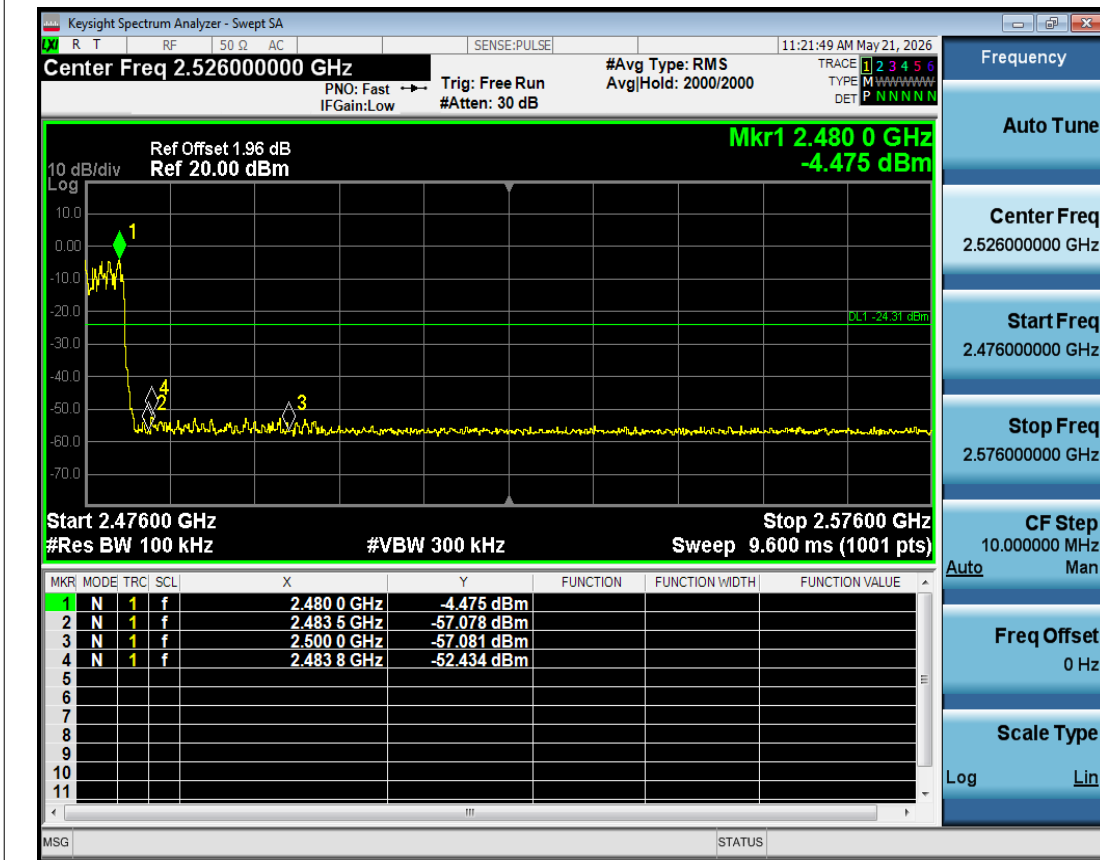
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



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



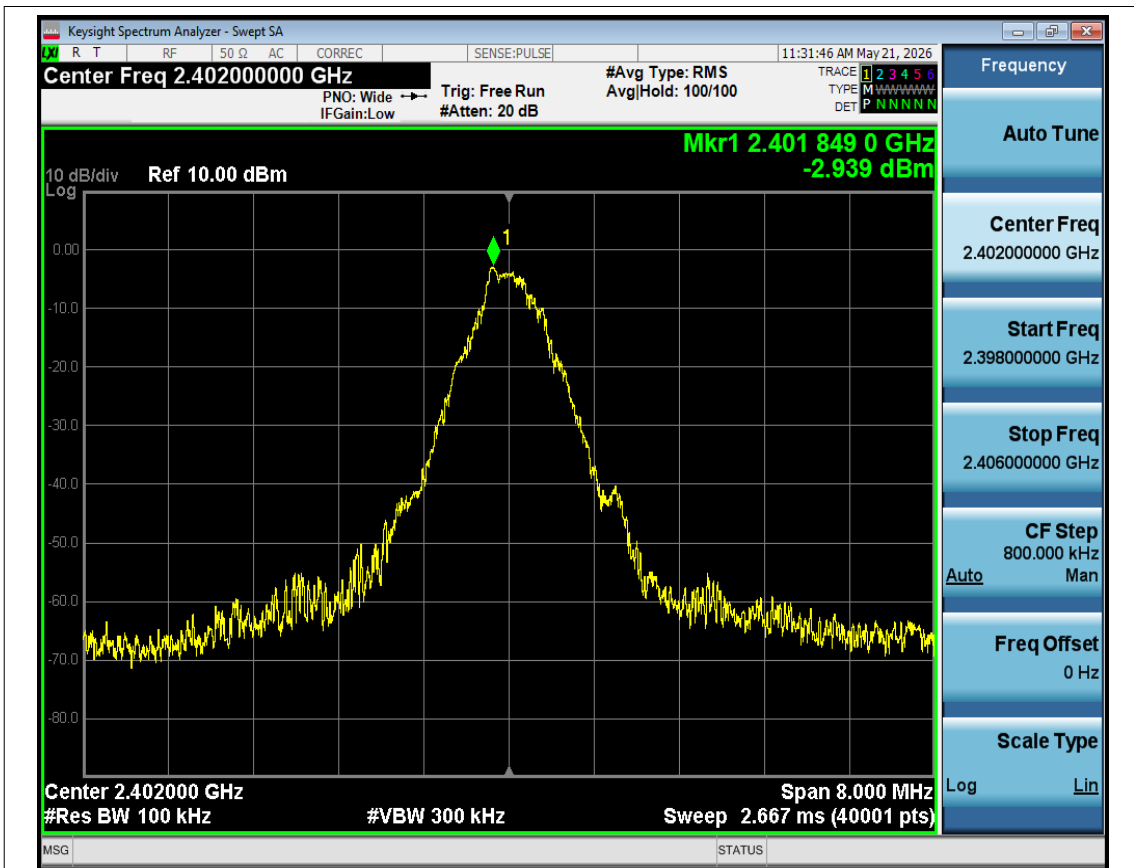
Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Ref



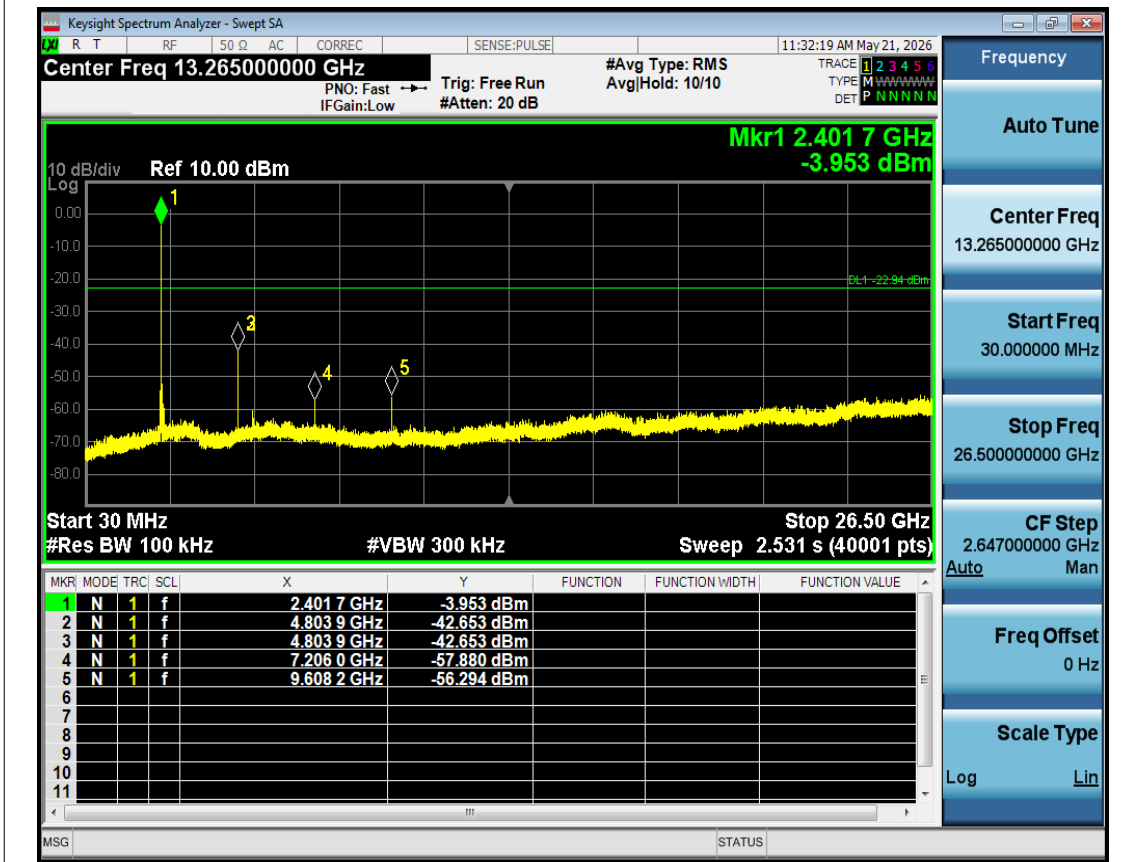
Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Emission

Conducted RF Spurious Emission

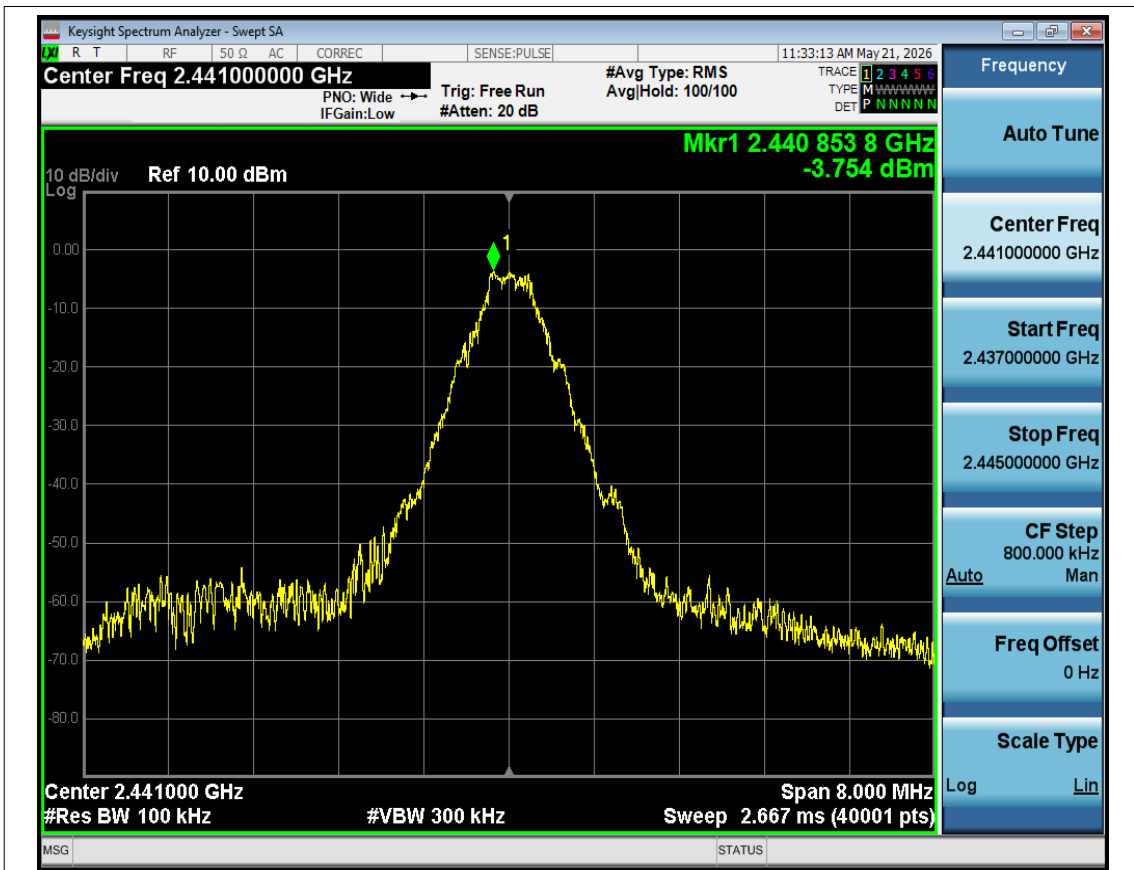
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-39.71	-20	Pass
NVNT	1-DH1	2441	Ant1	-41.52	-20	Pass
NVNT	1-DH1	2480	Ant1	-39.22	-20	Pass
NVNT	2-DH1	2402	Ant1	-41.61	-20	Pass
NVNT	2-DH1	2441	Ant1	-40.5	-20	Pass
NVNT	2-DH1	2480	Ant1	-35.43	-20	Pass
NVNT	3-DH1	2402	Ant1	-40.01	-20	Pass
NVNT	3-DH1	2441	Ant1	-40.84	-20	Pass
NVNT	3-DH1	2480	Ant1	-38.12	-20	Pass



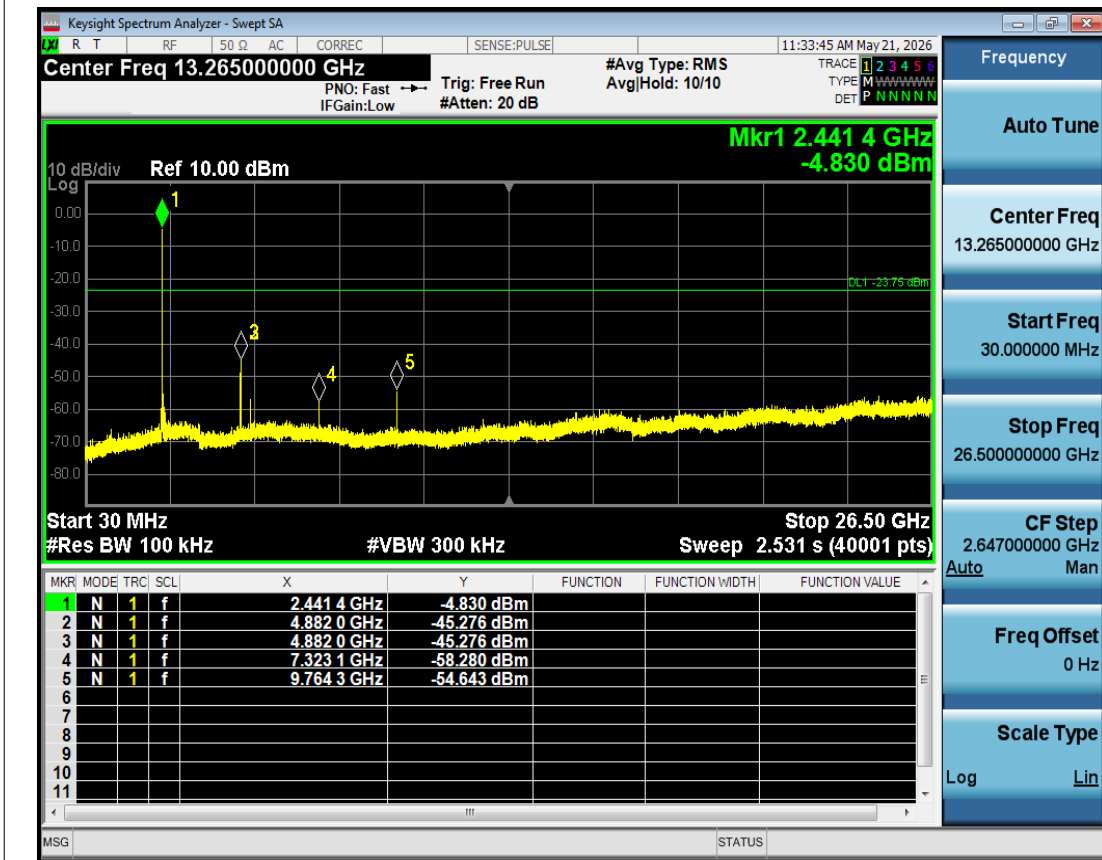
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



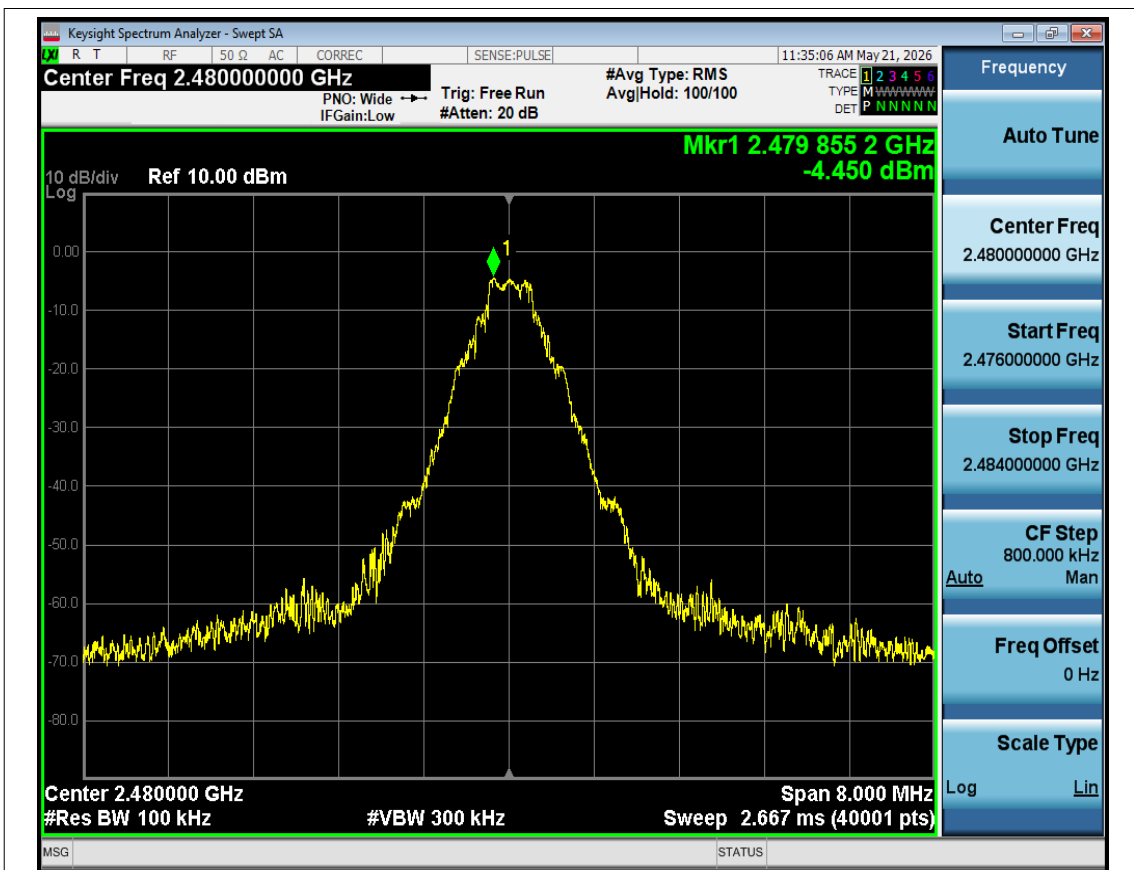
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



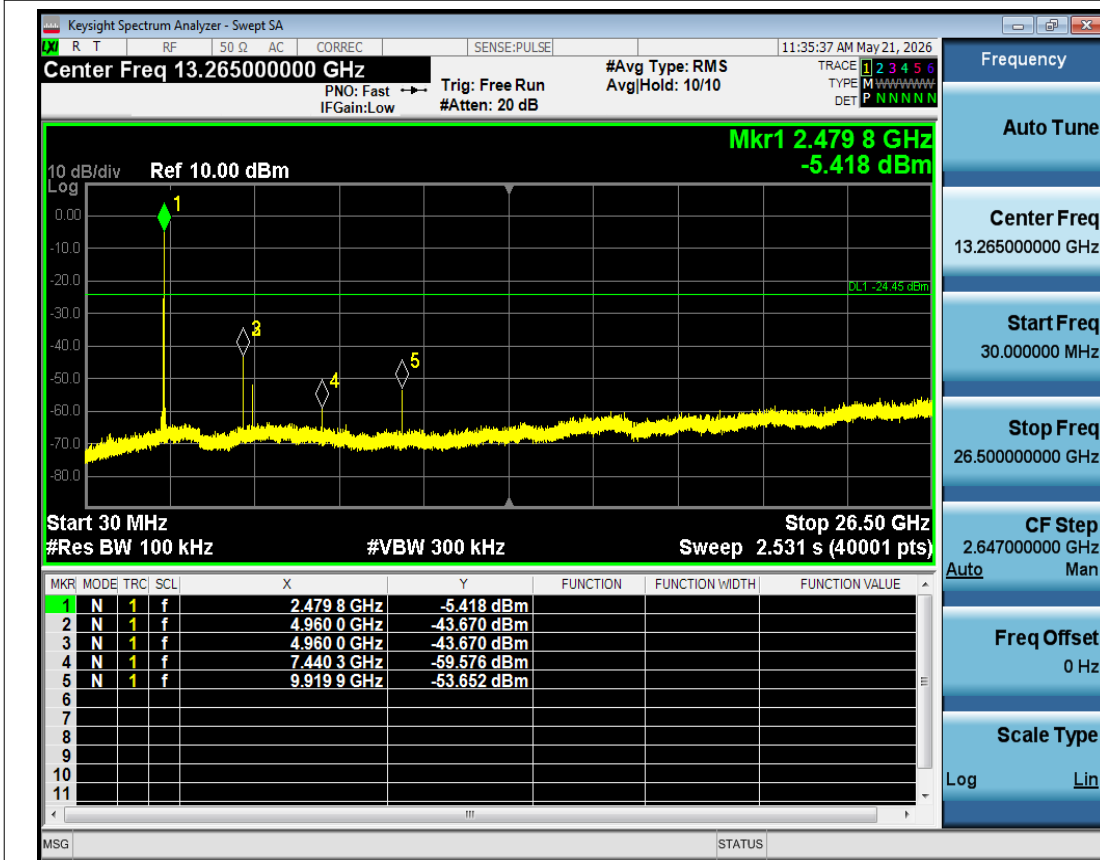
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



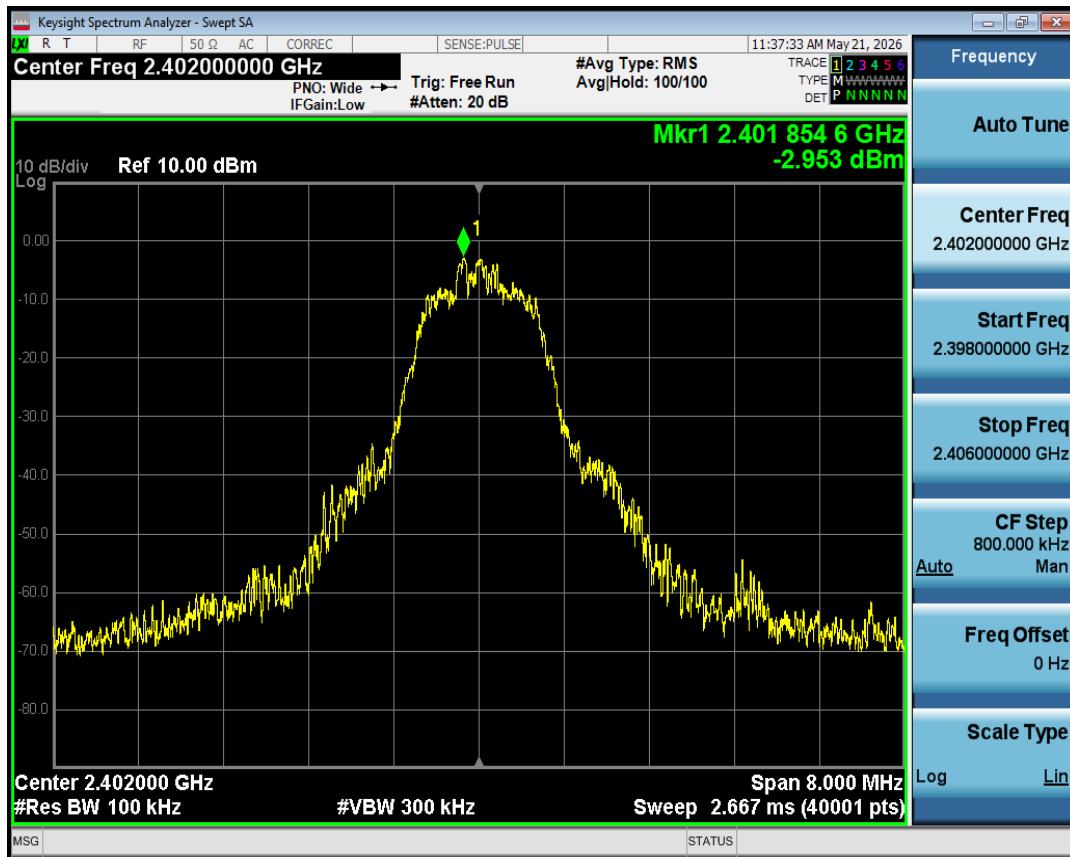
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



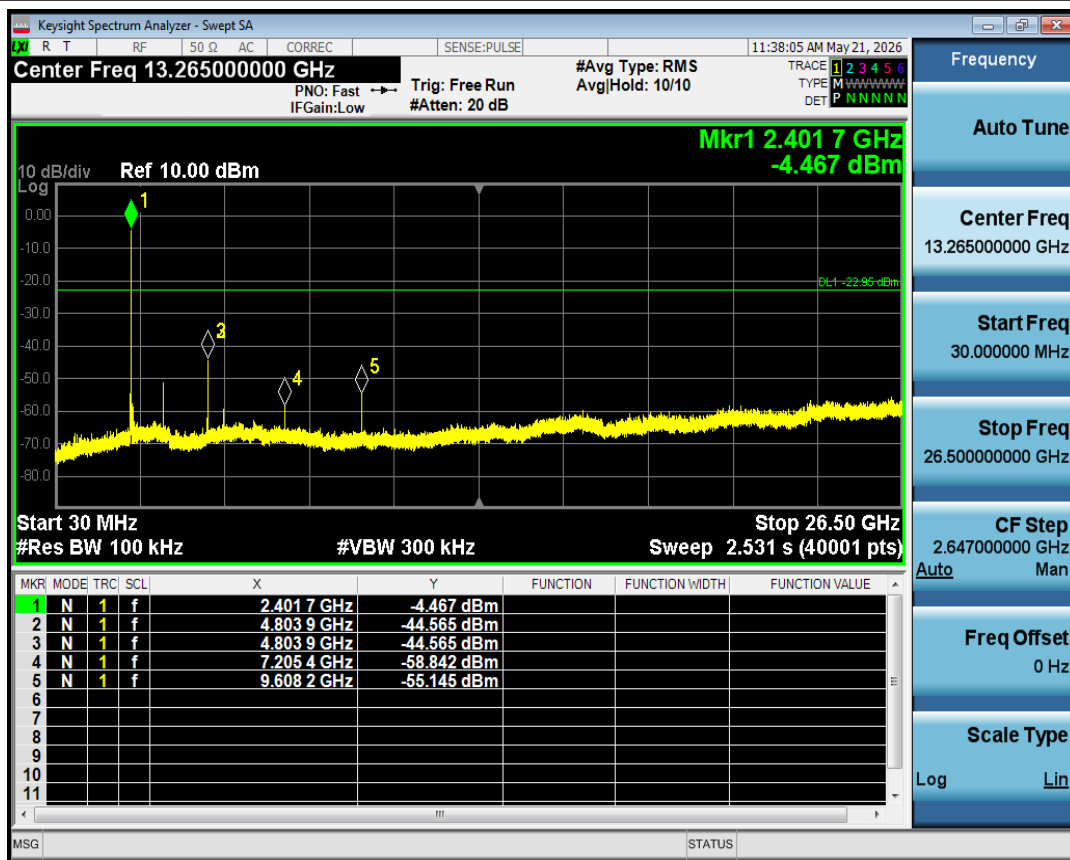
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



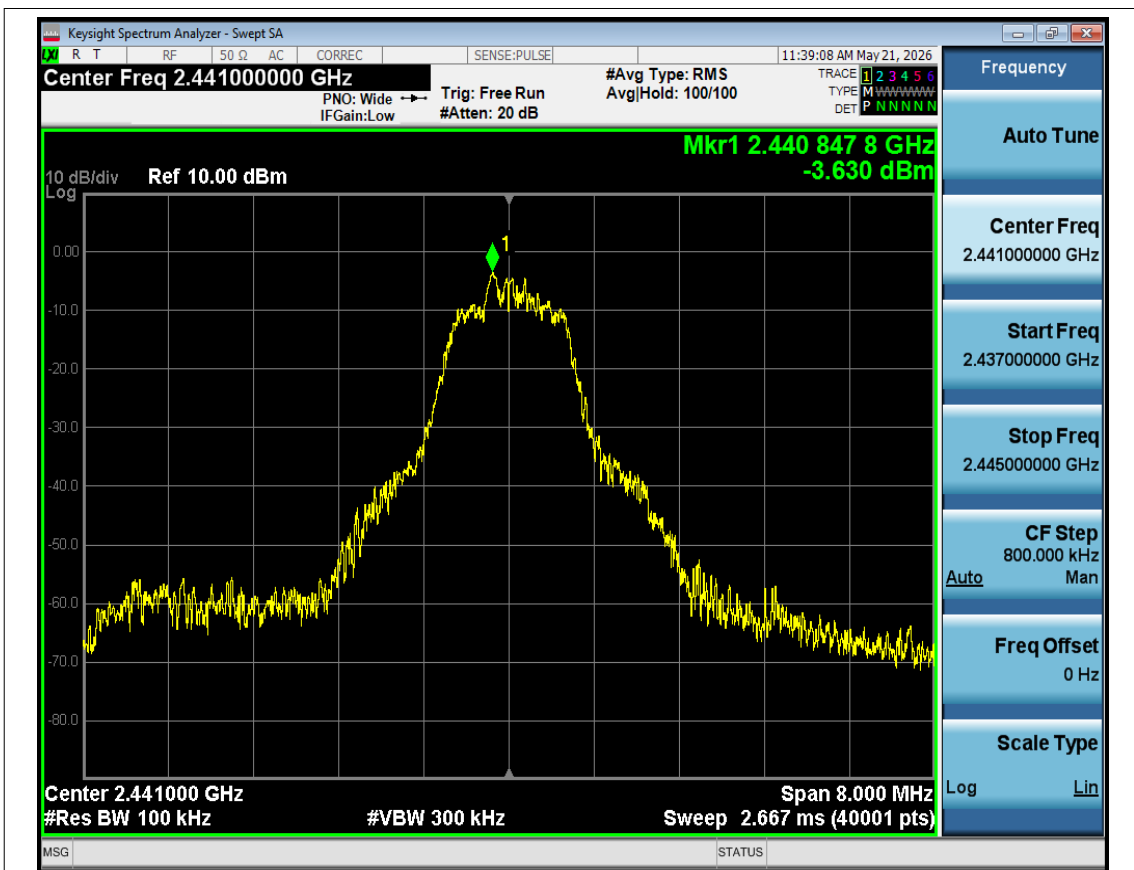
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



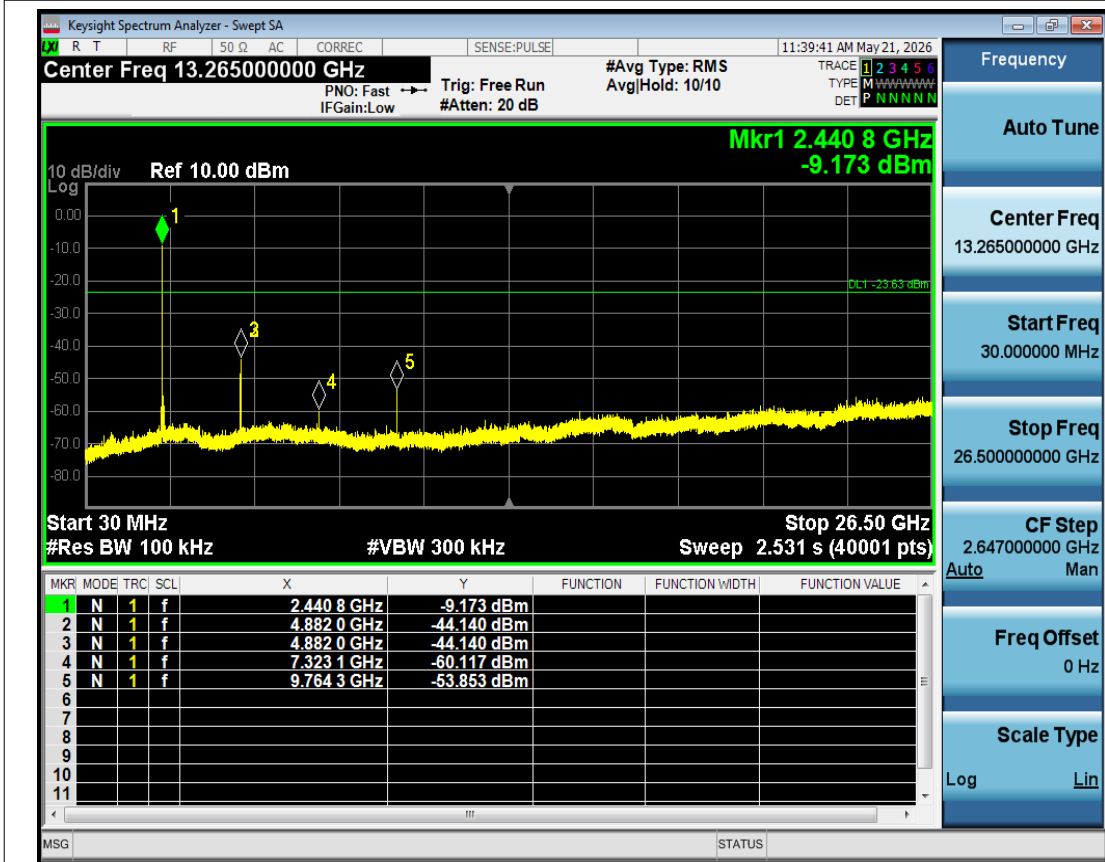
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



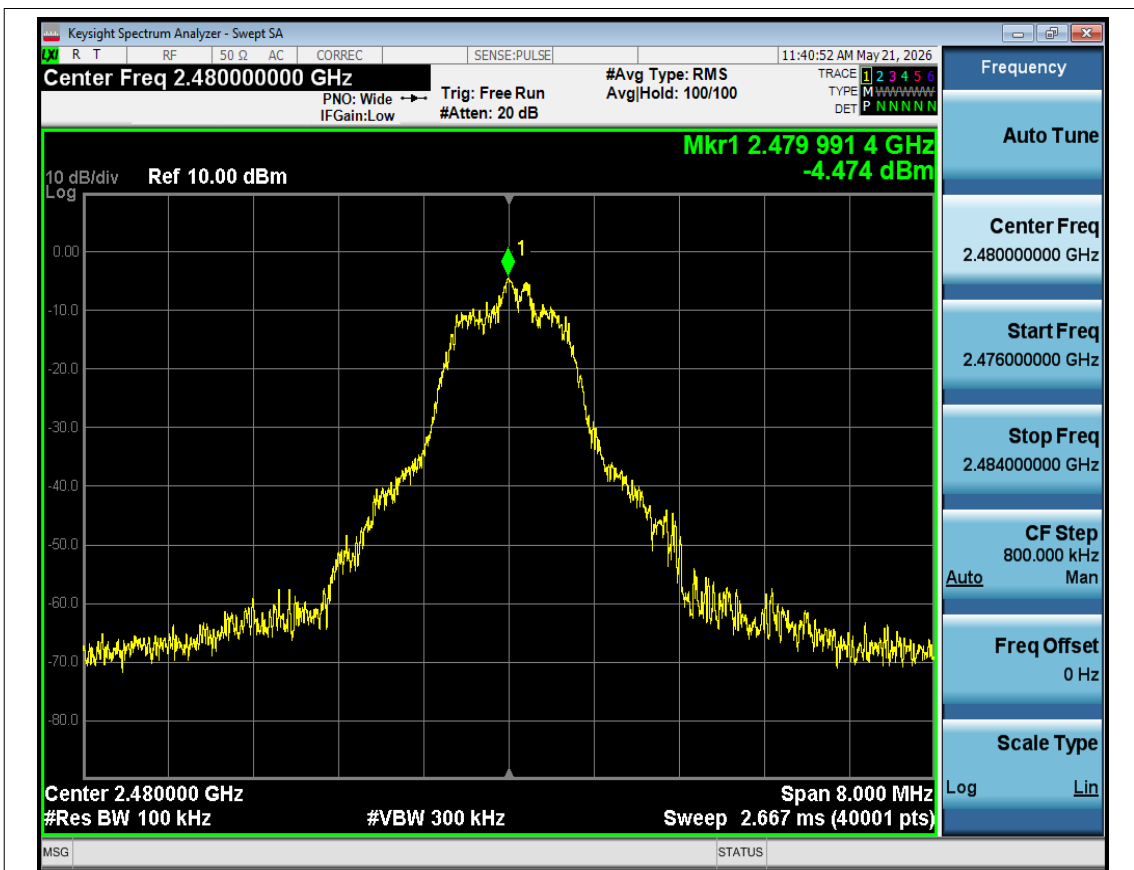
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



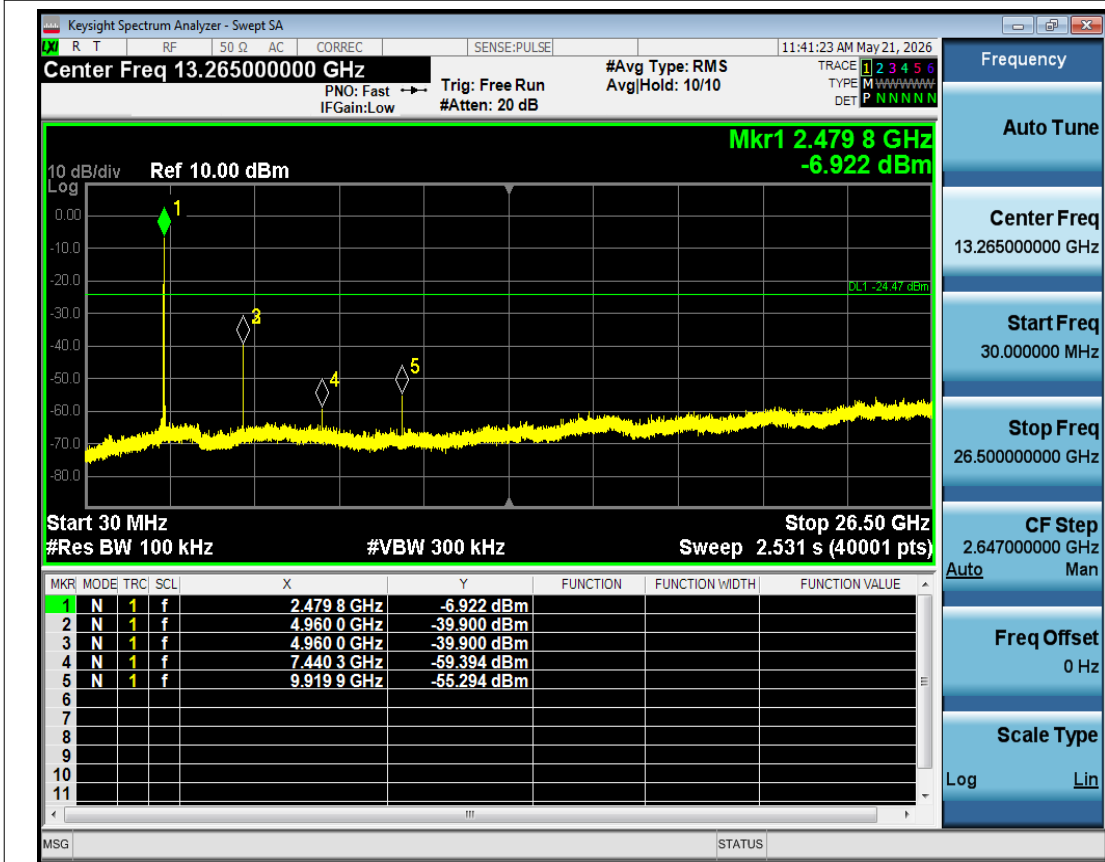
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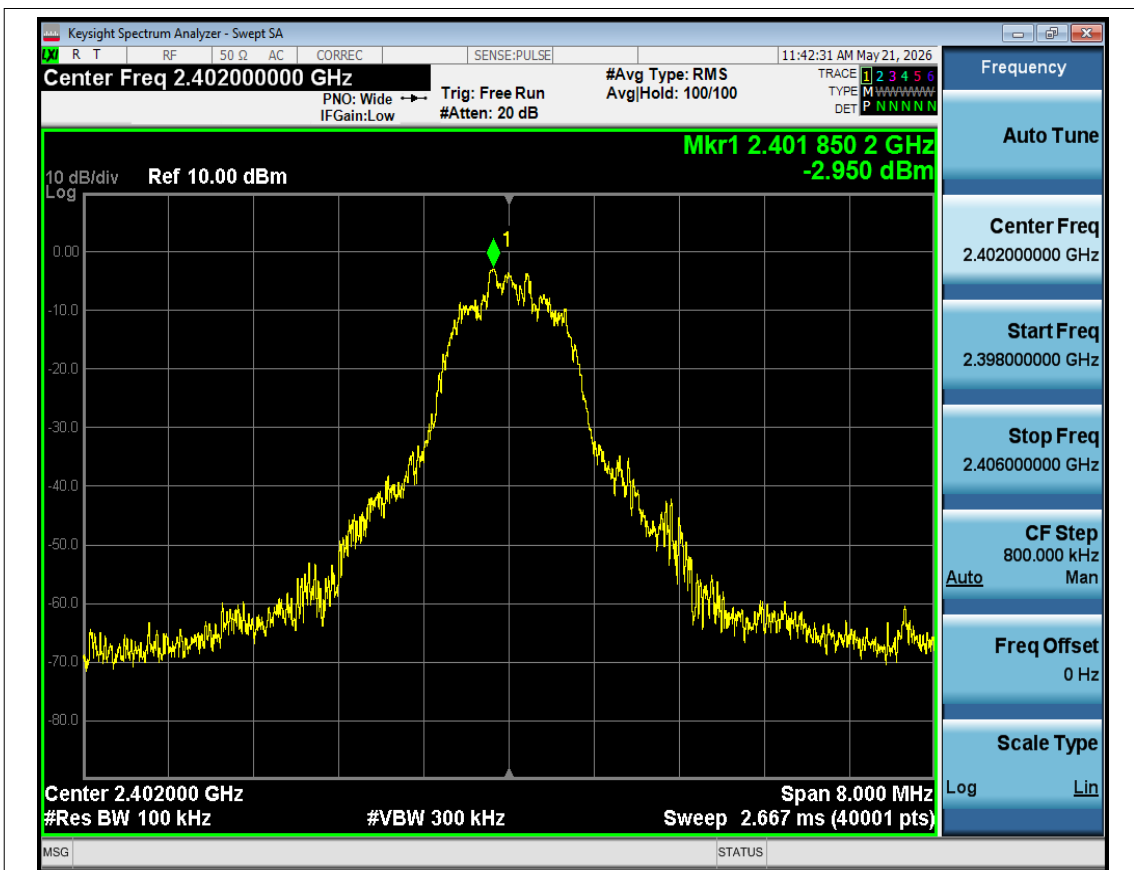
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



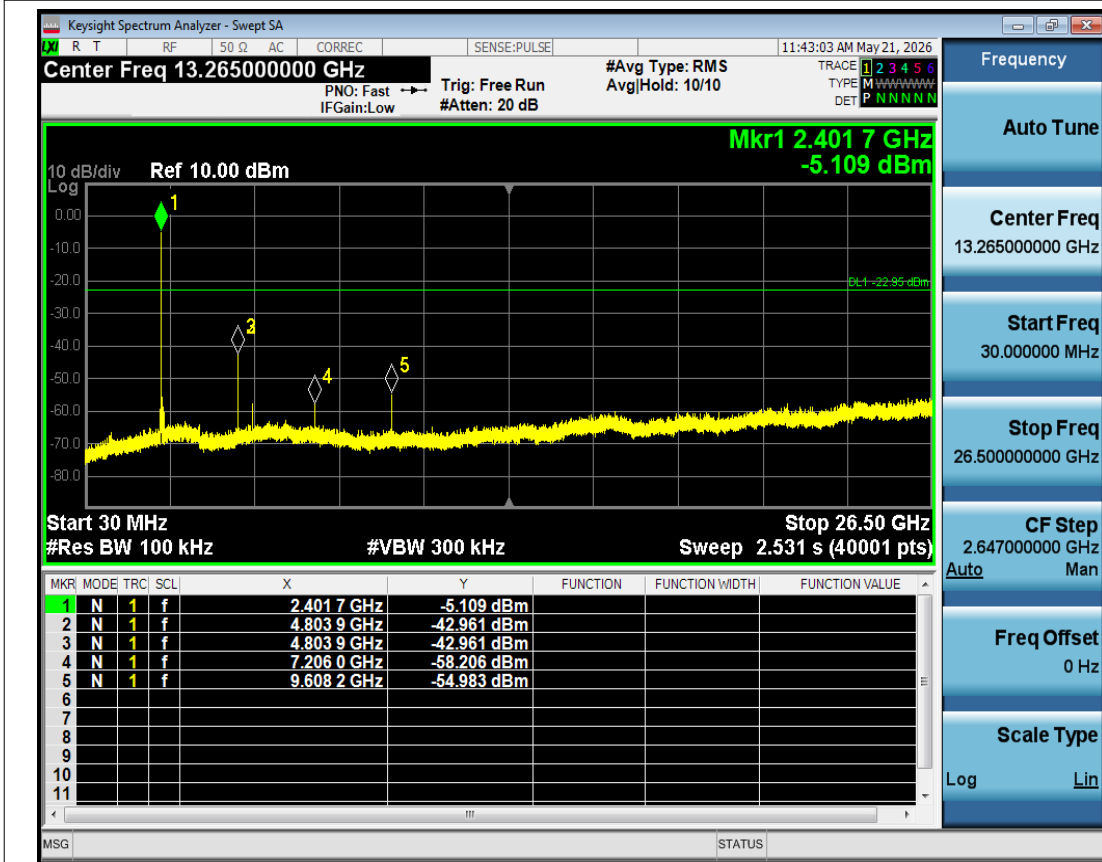
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



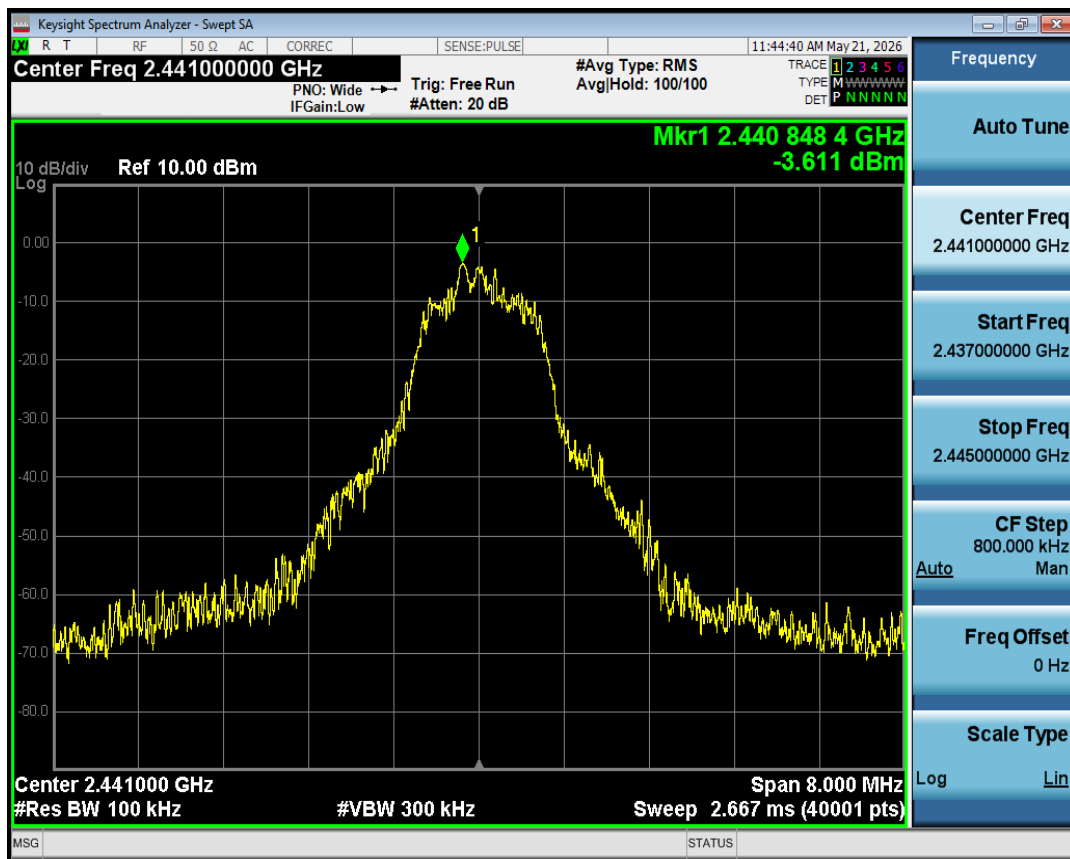
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



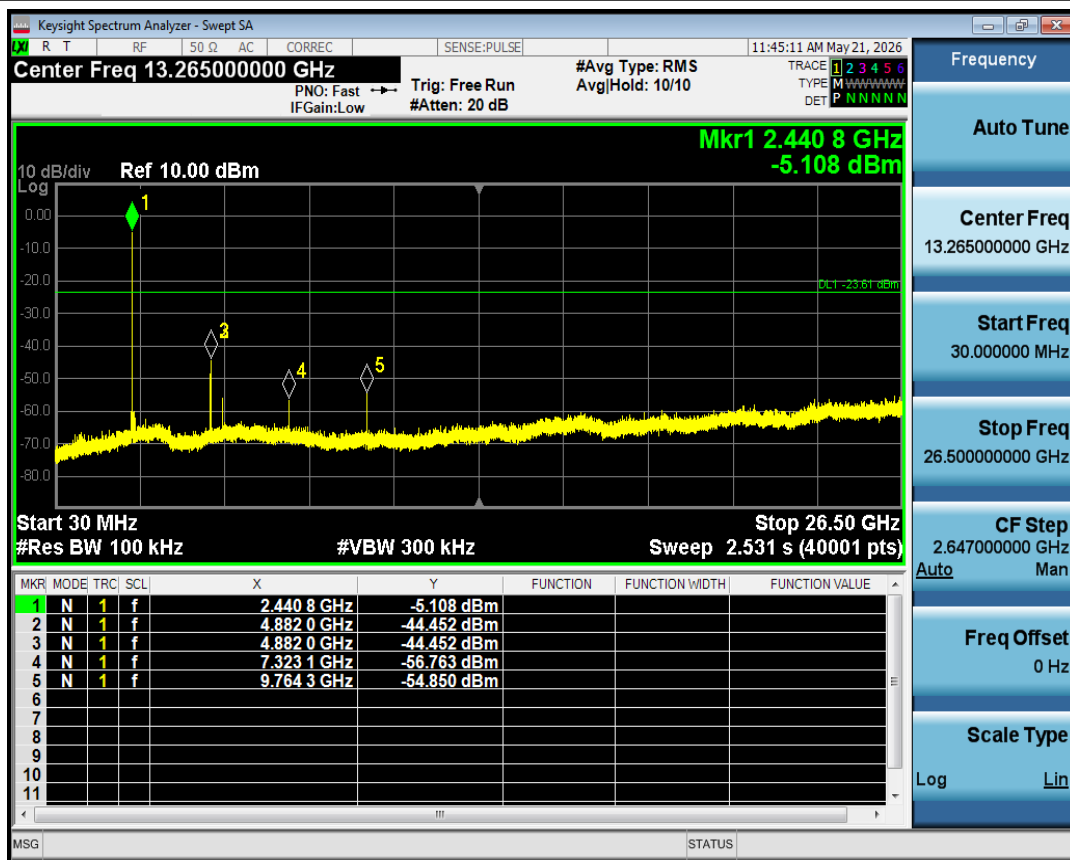
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



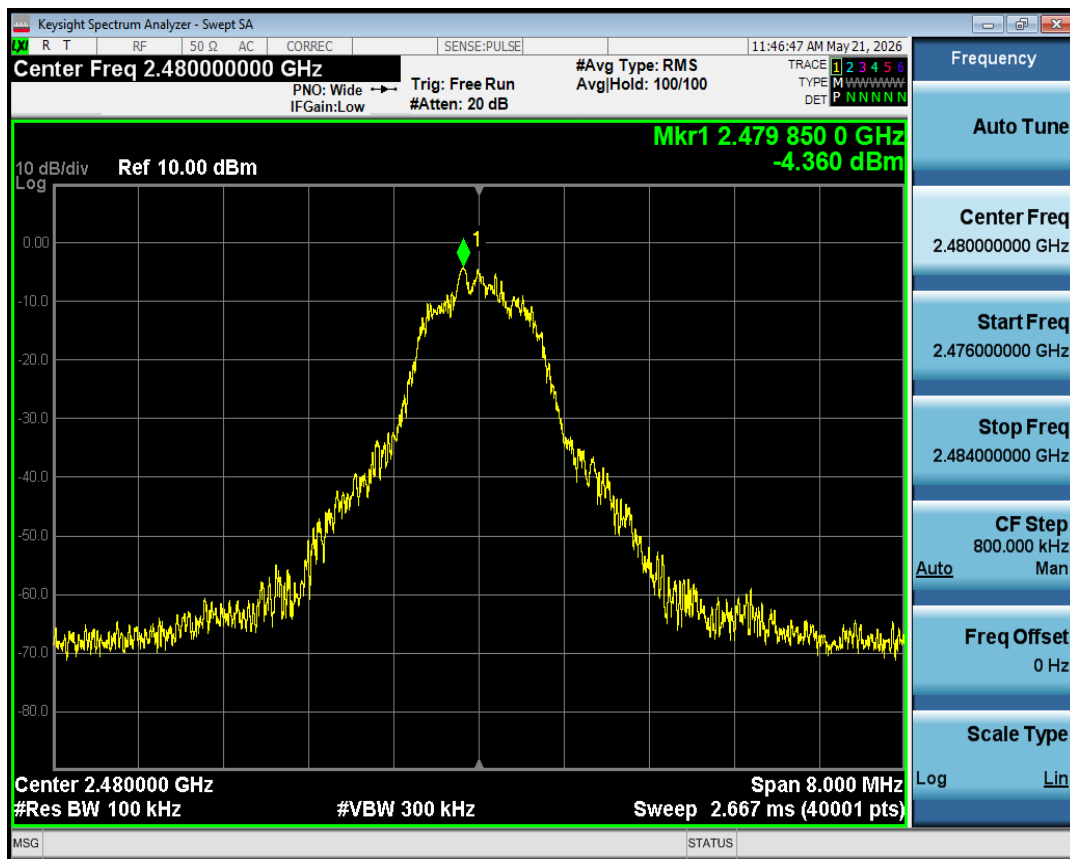
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



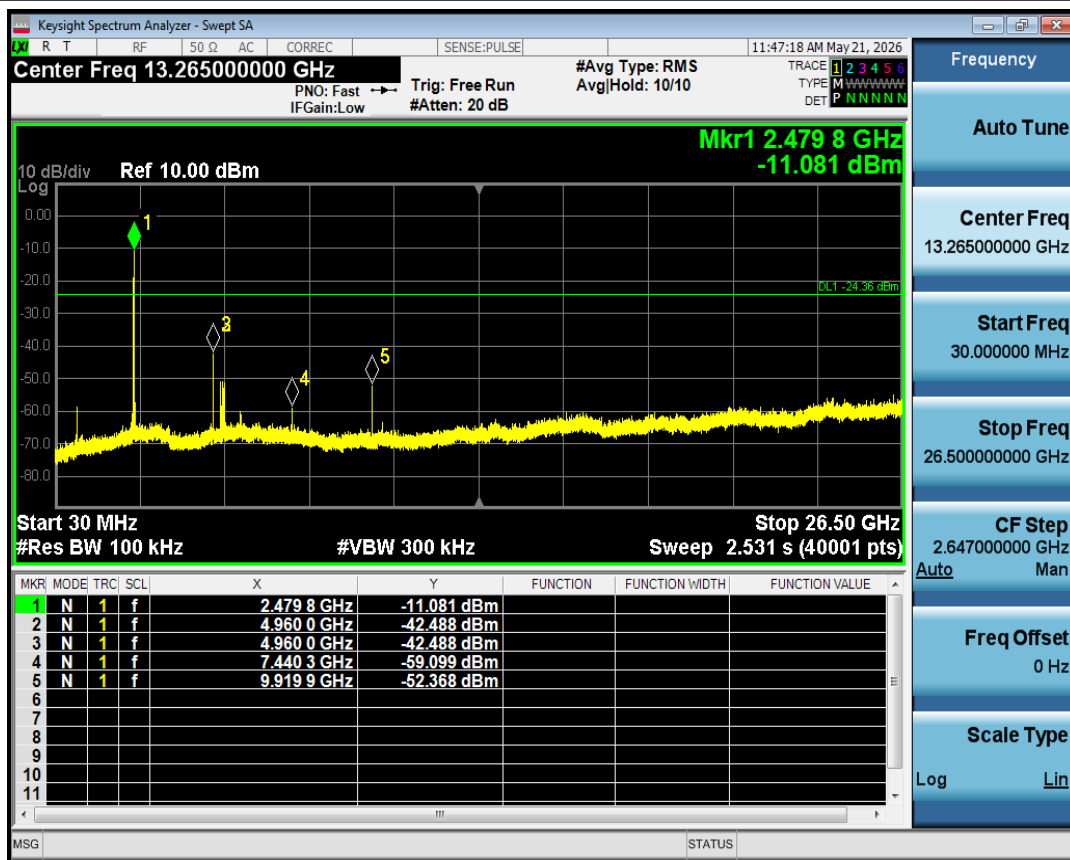
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



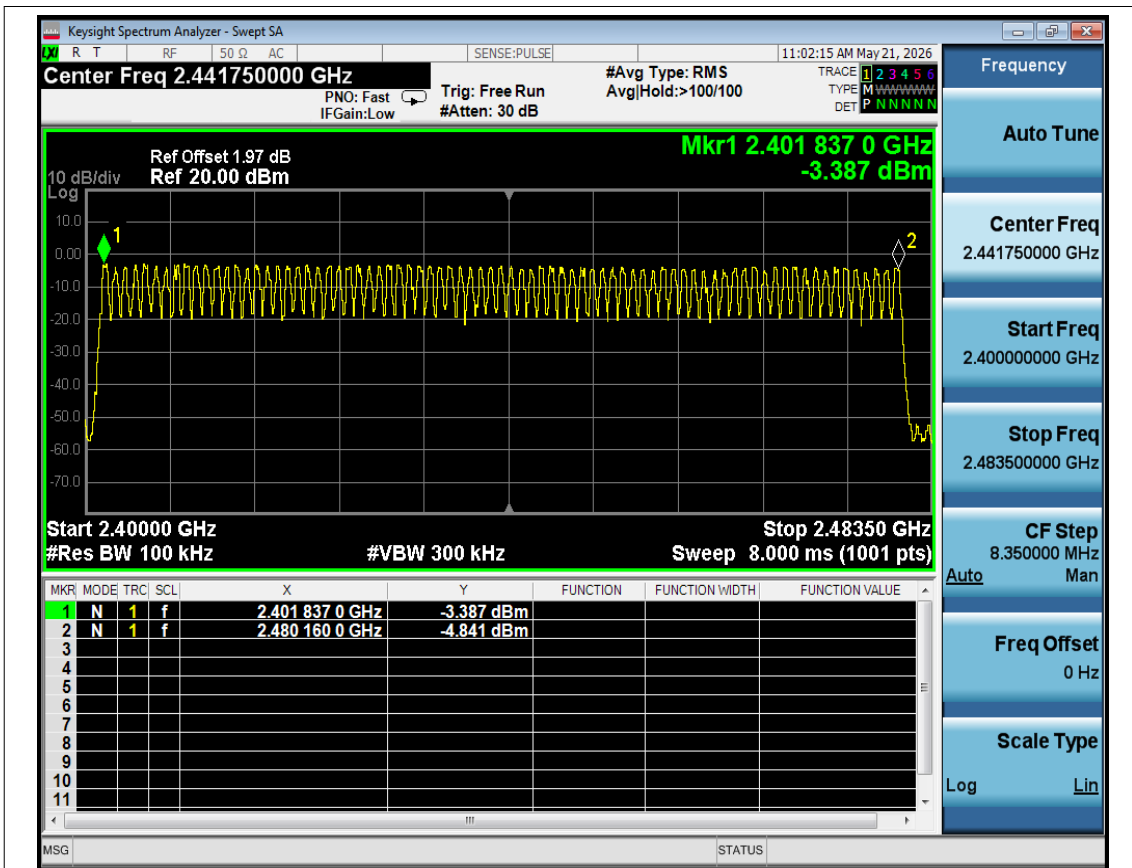
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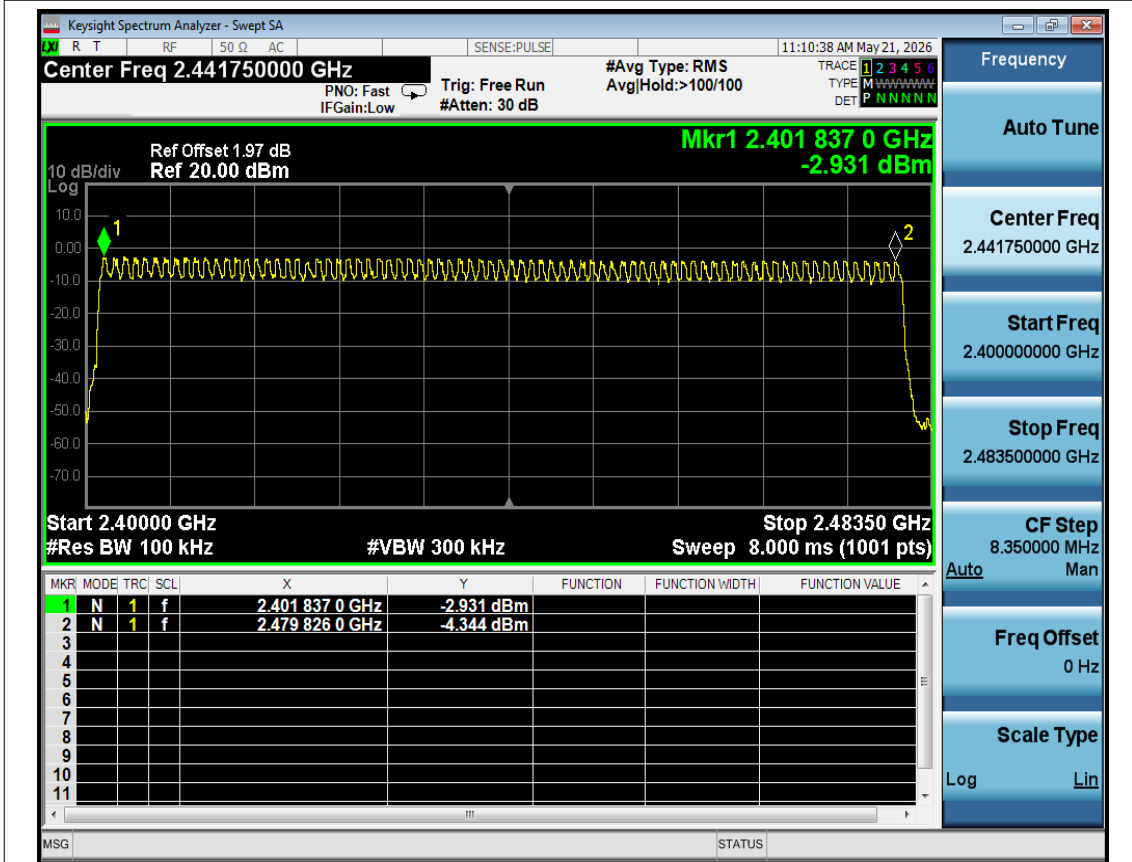
Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

Number of Hopping Channel

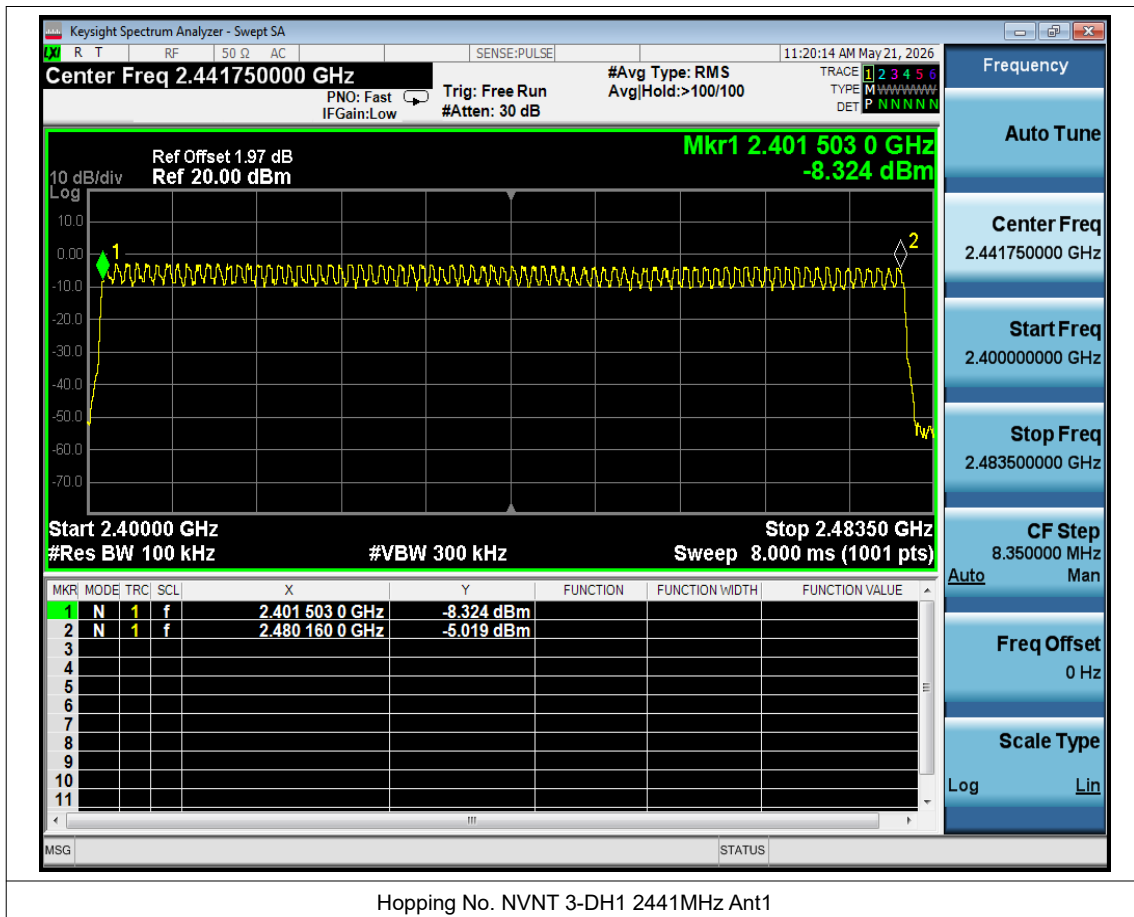
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass



Hopping No. NVNT 1-DH1 2441MHz Ant1

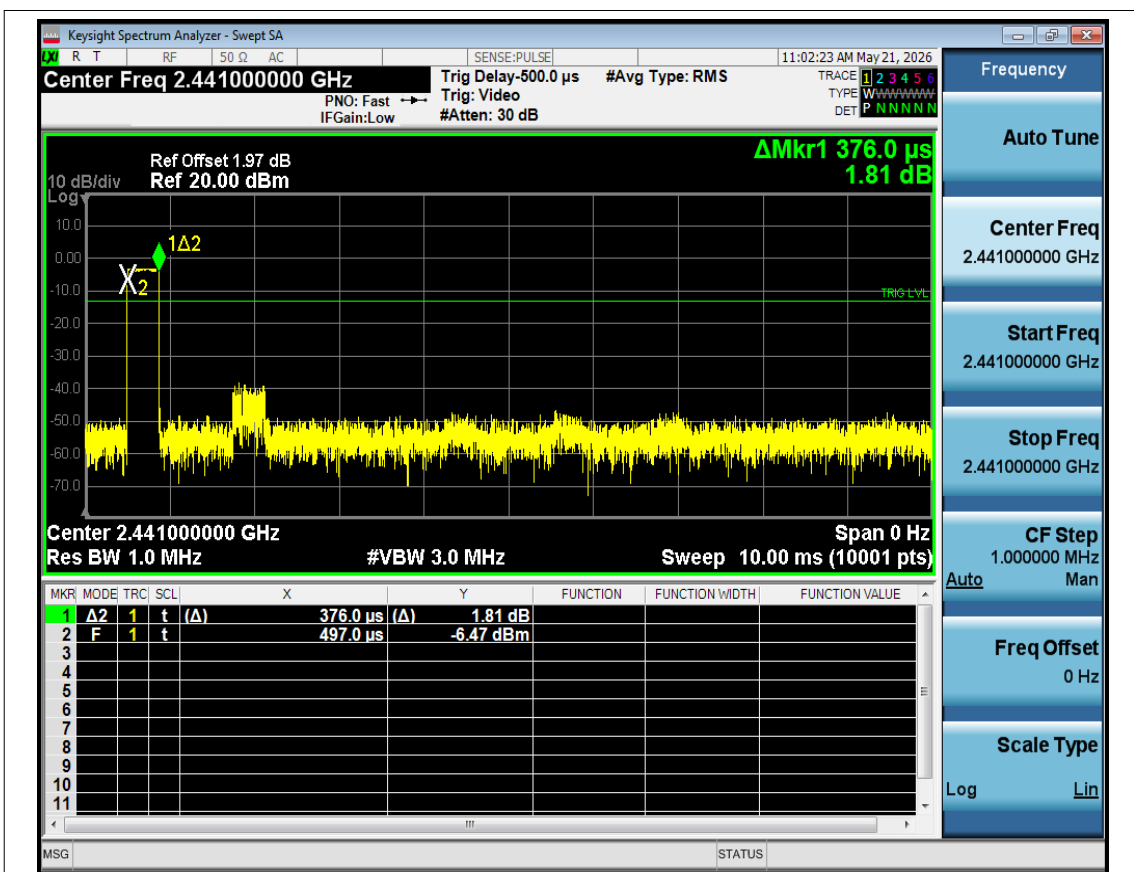


Hopping No. NVNT 2-DH1 2441MHz Ant1

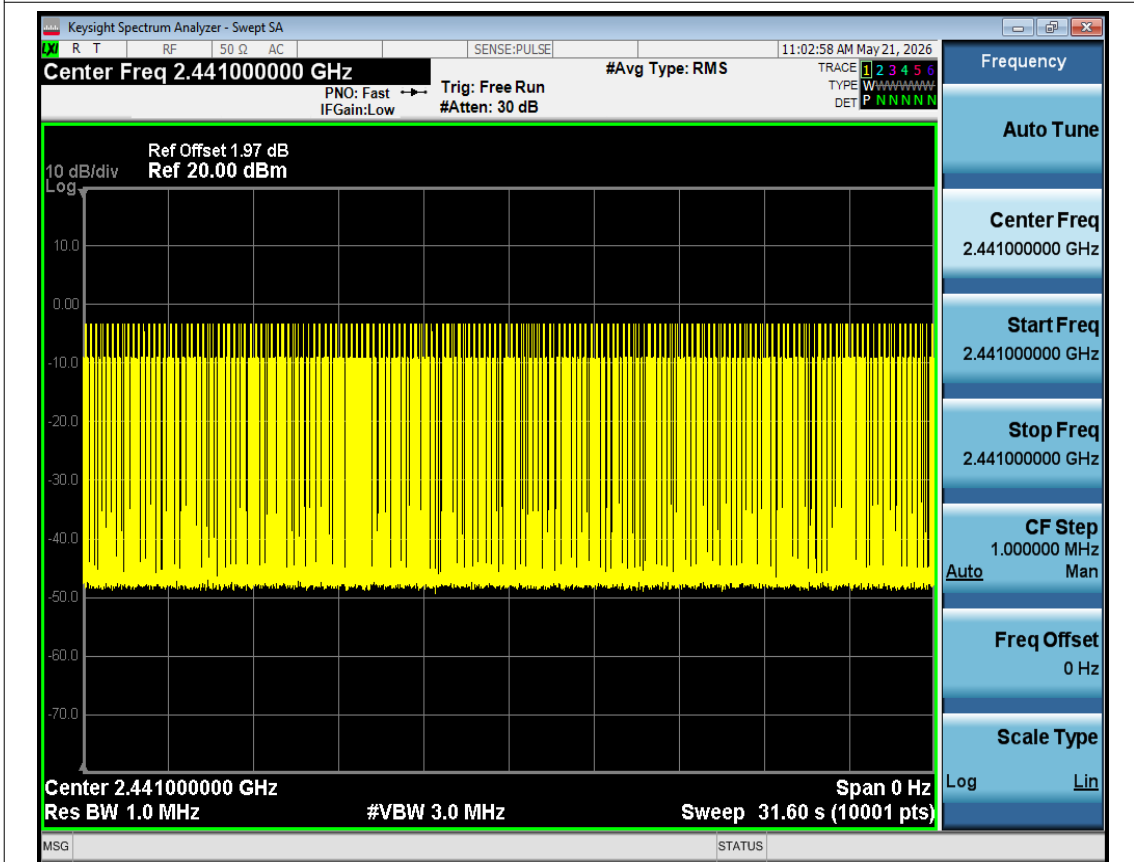


Dwell Time

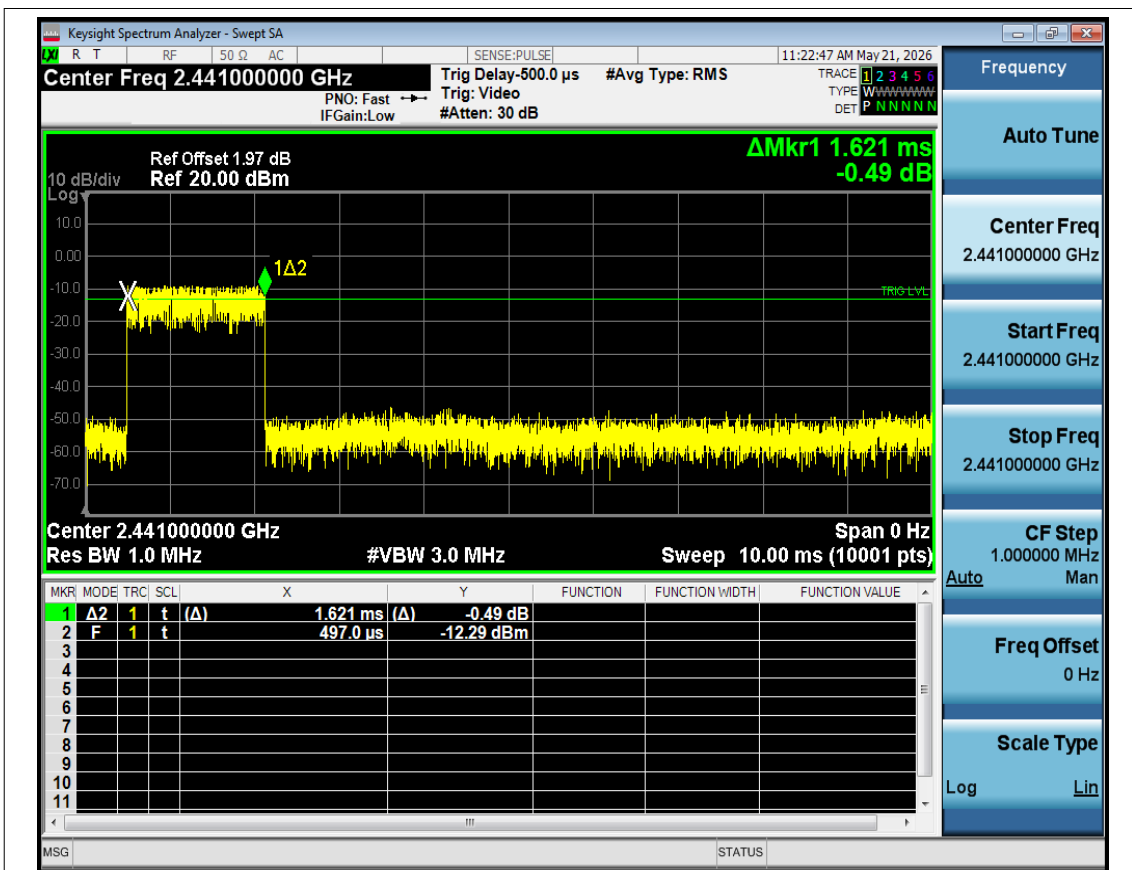
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.376	119.568	318	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.621	262.602	162	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.868	324.084	113	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.385	122.43	318	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.631	262.591	161	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.87	295.61	103	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.371	118.349	319	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.637	273.379	167	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.87	309.96	108	31600	400	Pass



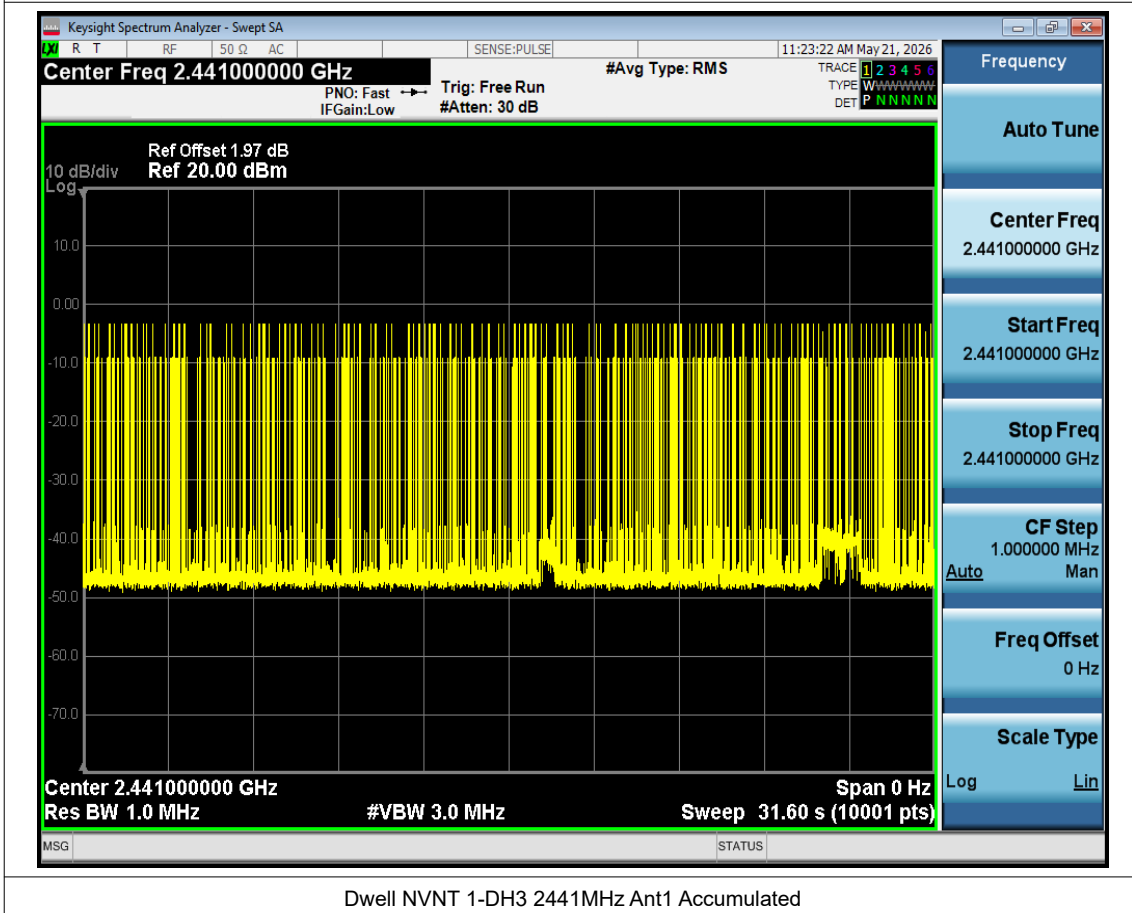
Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



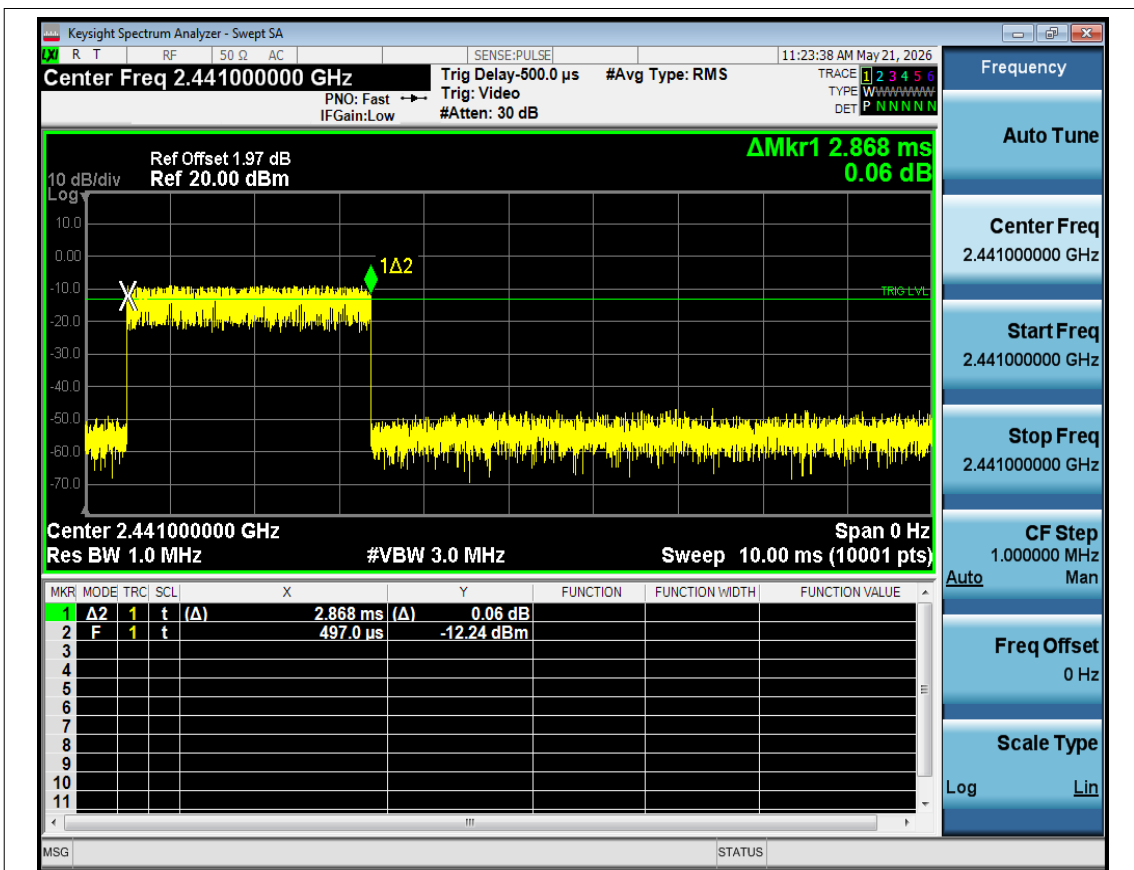
Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



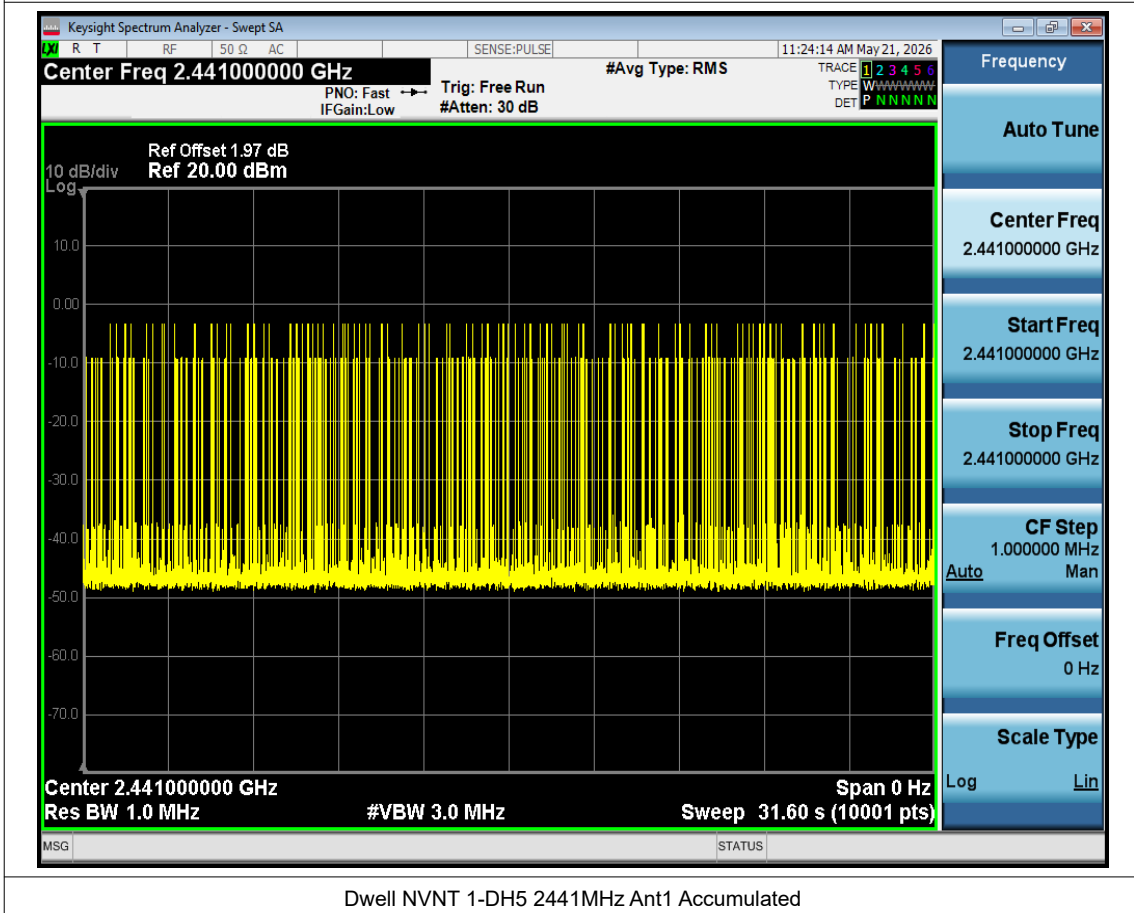
Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



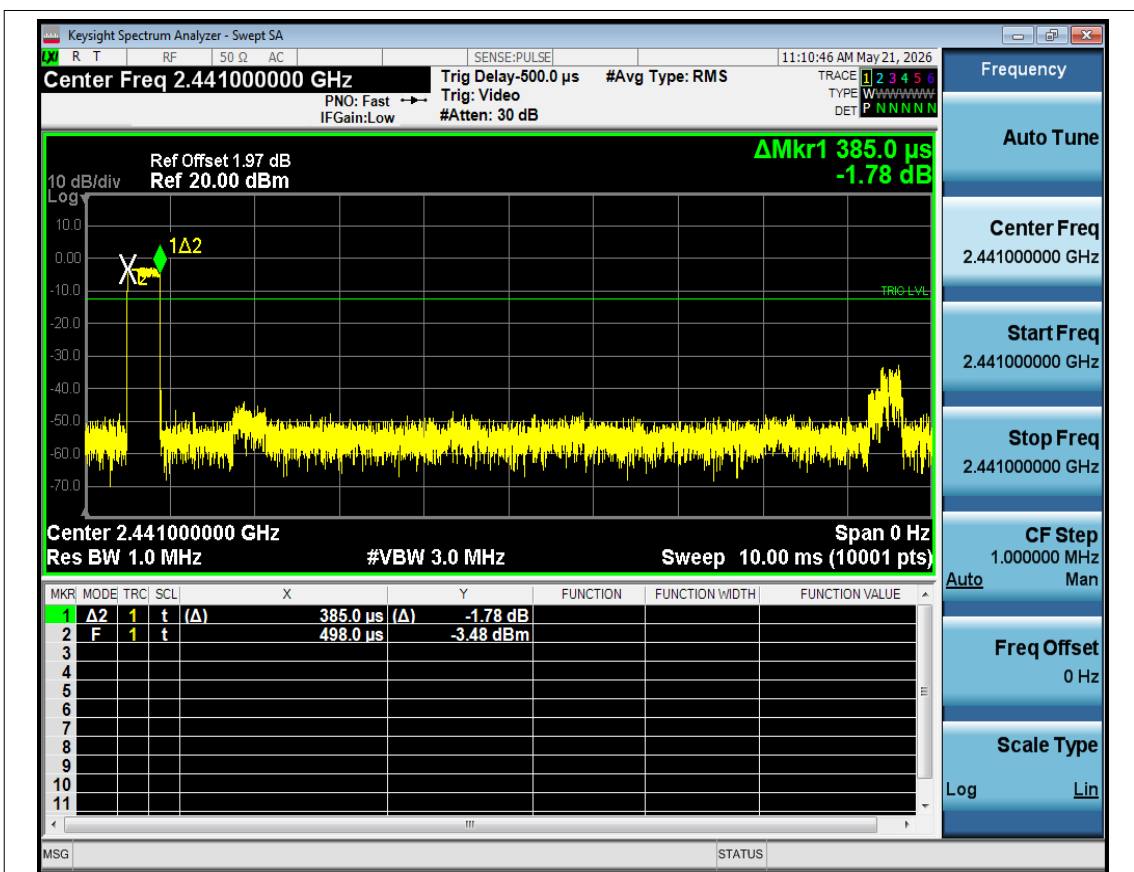
Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



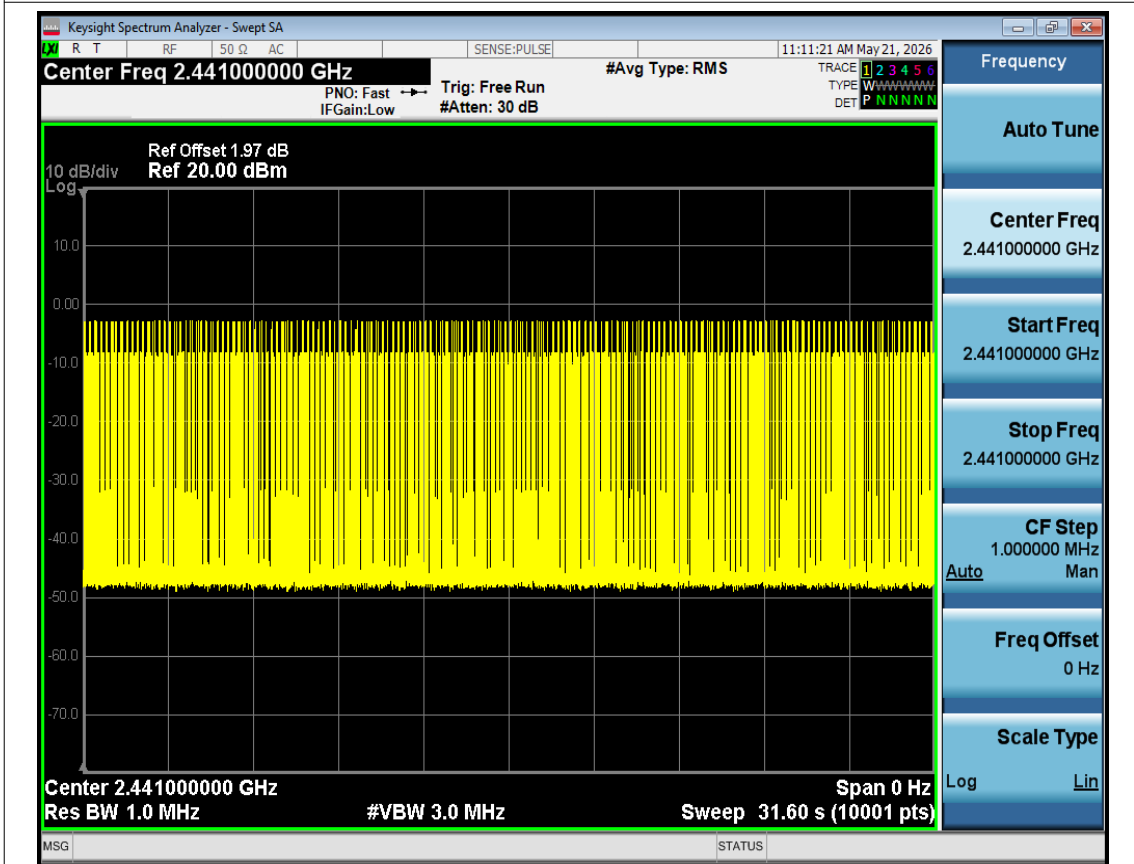
Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



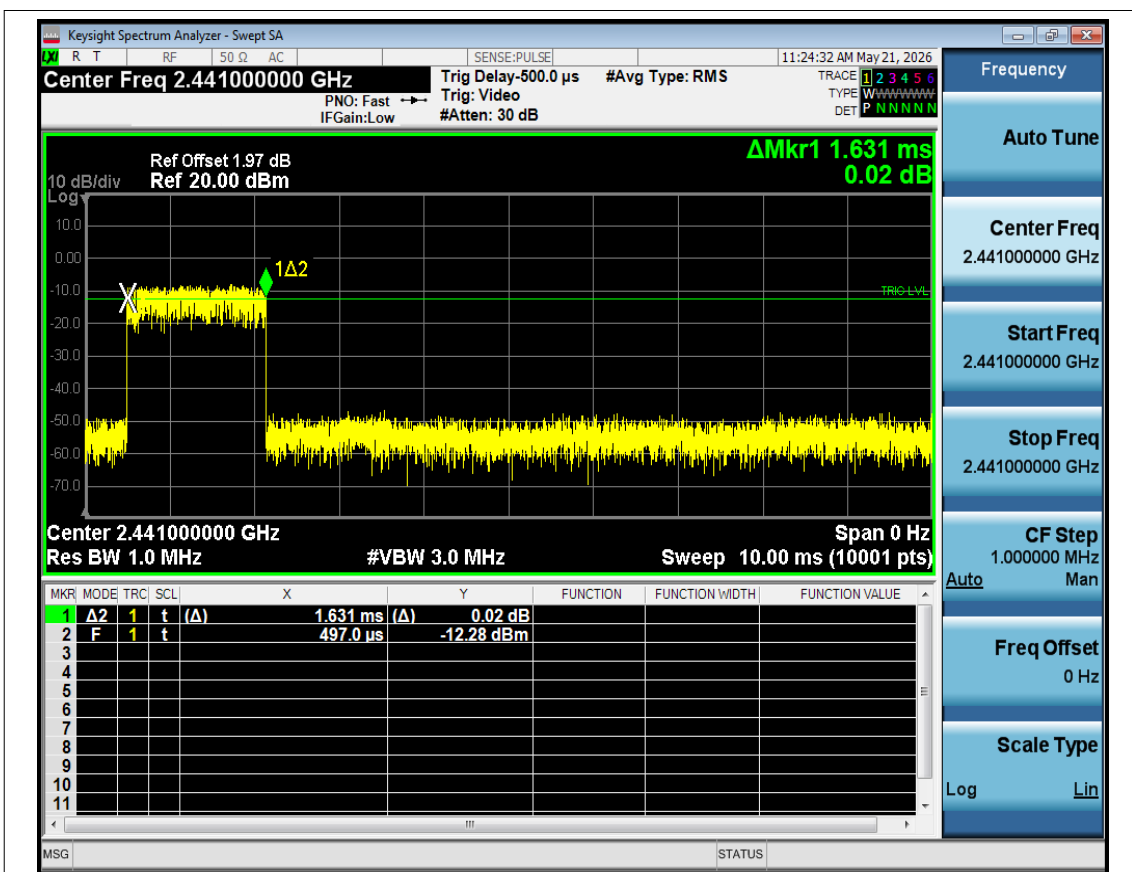
Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



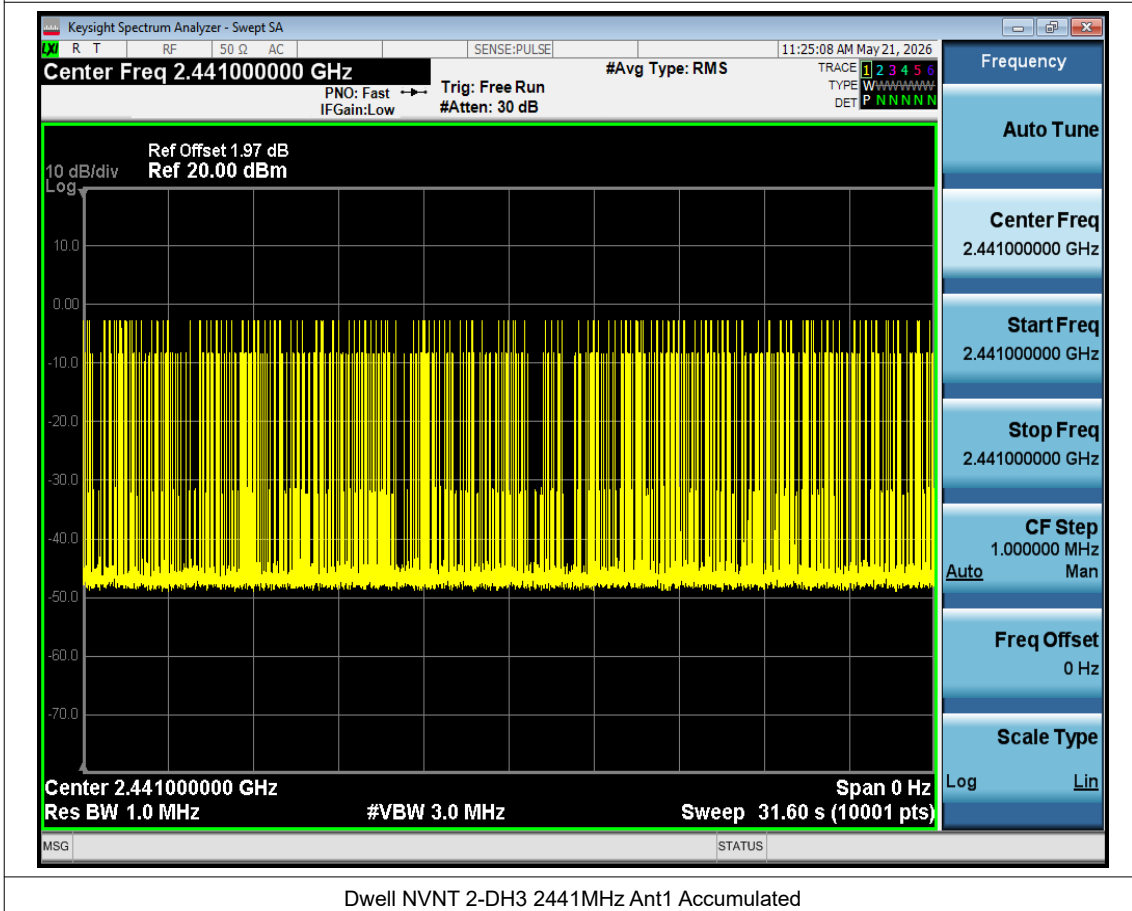
Dwell NVNT 2-DH1 2441MHz Ant1 One Burst



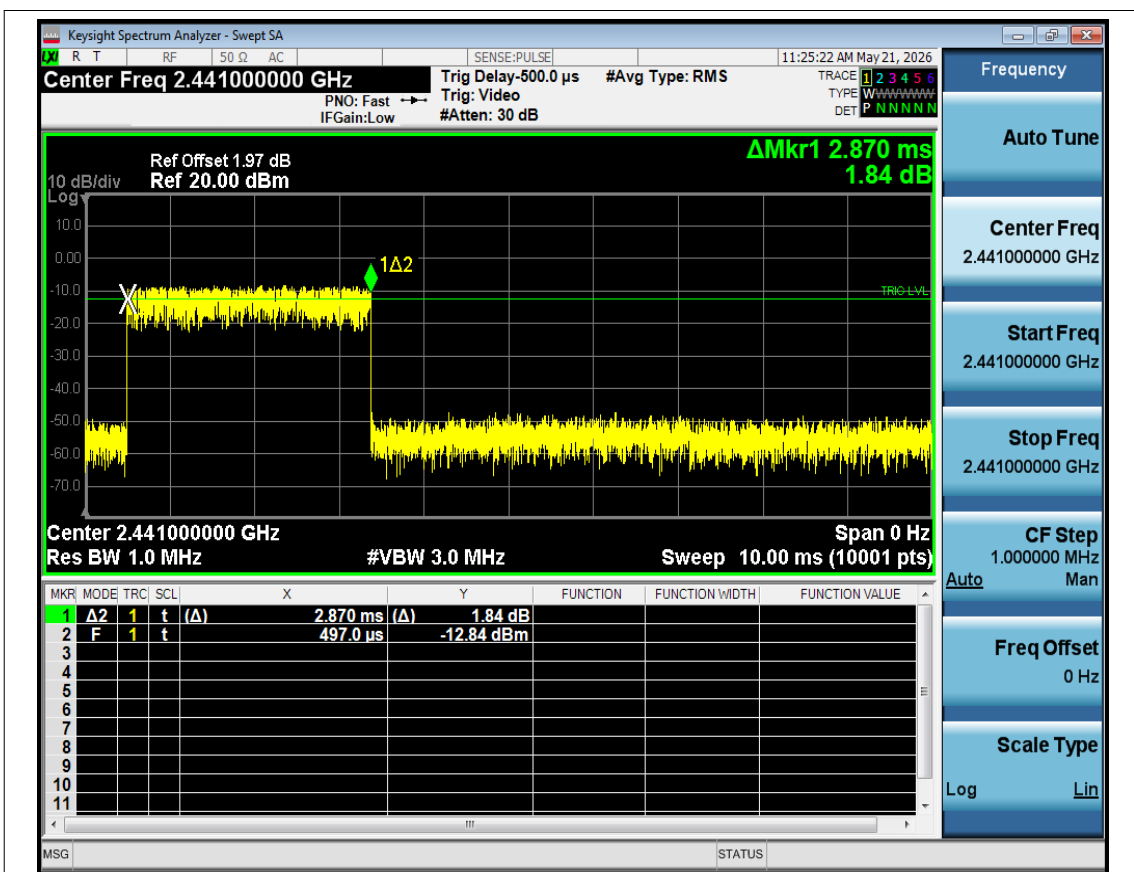
Dwell NVNT 2-DH1 2441MHz Ant1 Accumulated



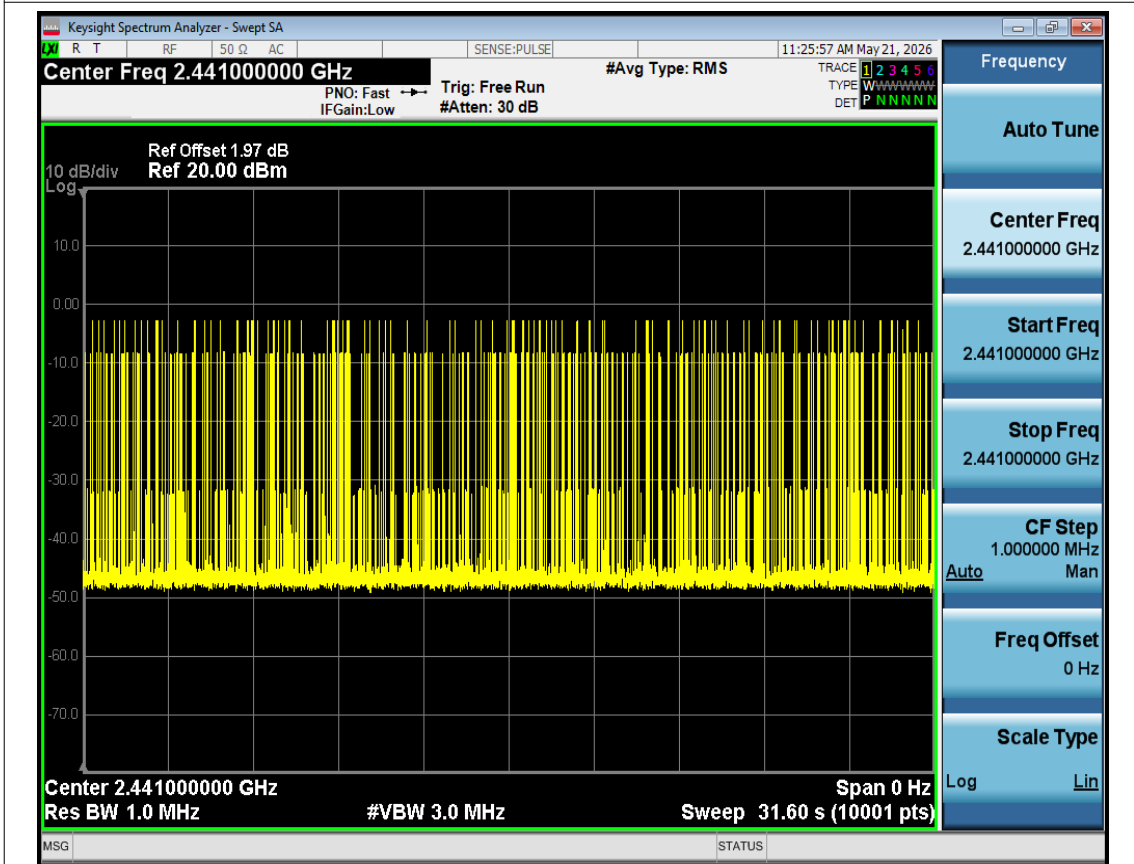
Dwell NVNT 2-DH3 2441MHz Ant1 One Burst



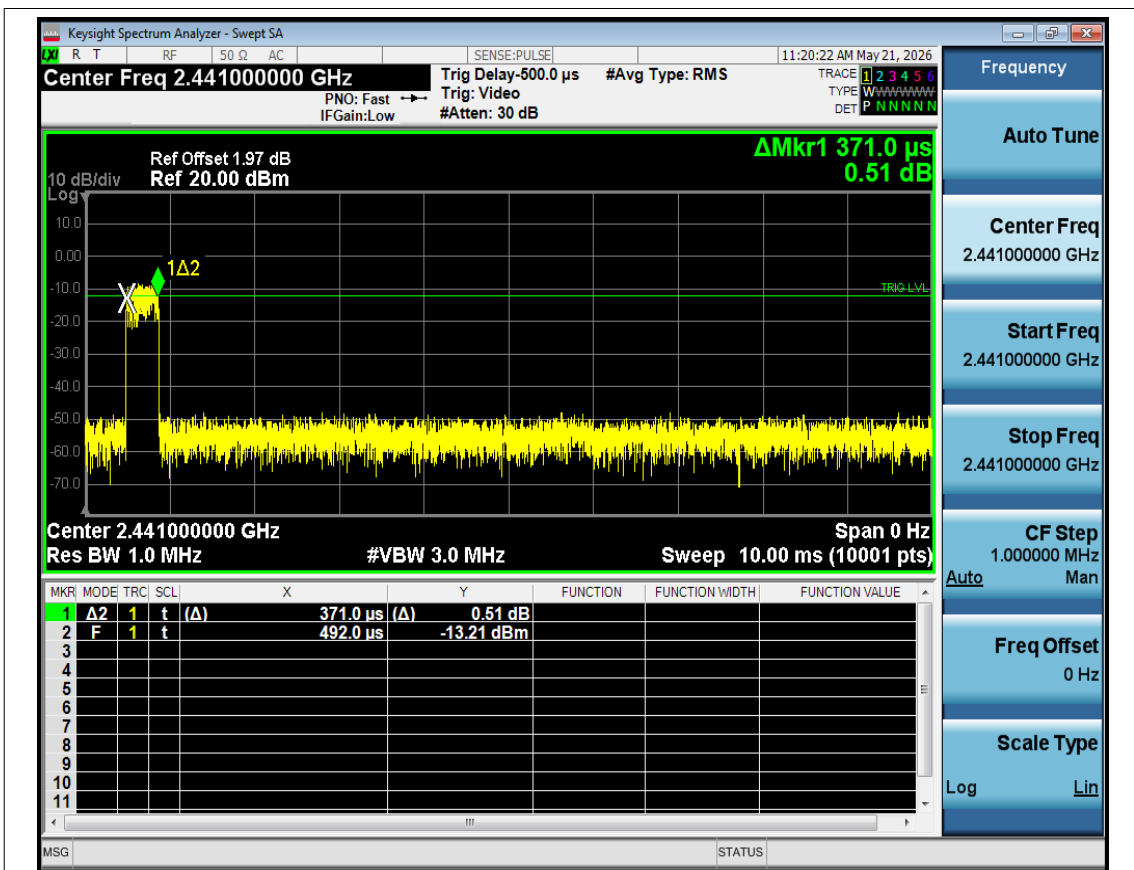
Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



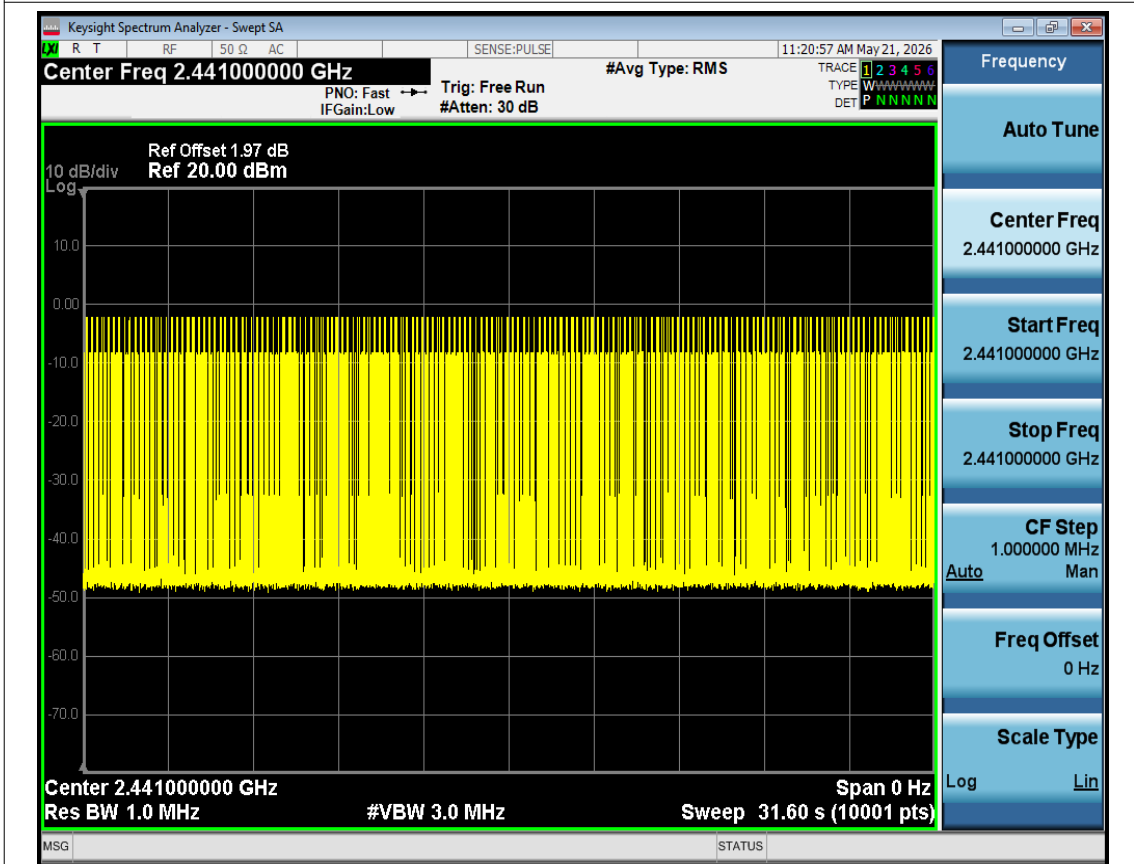
Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



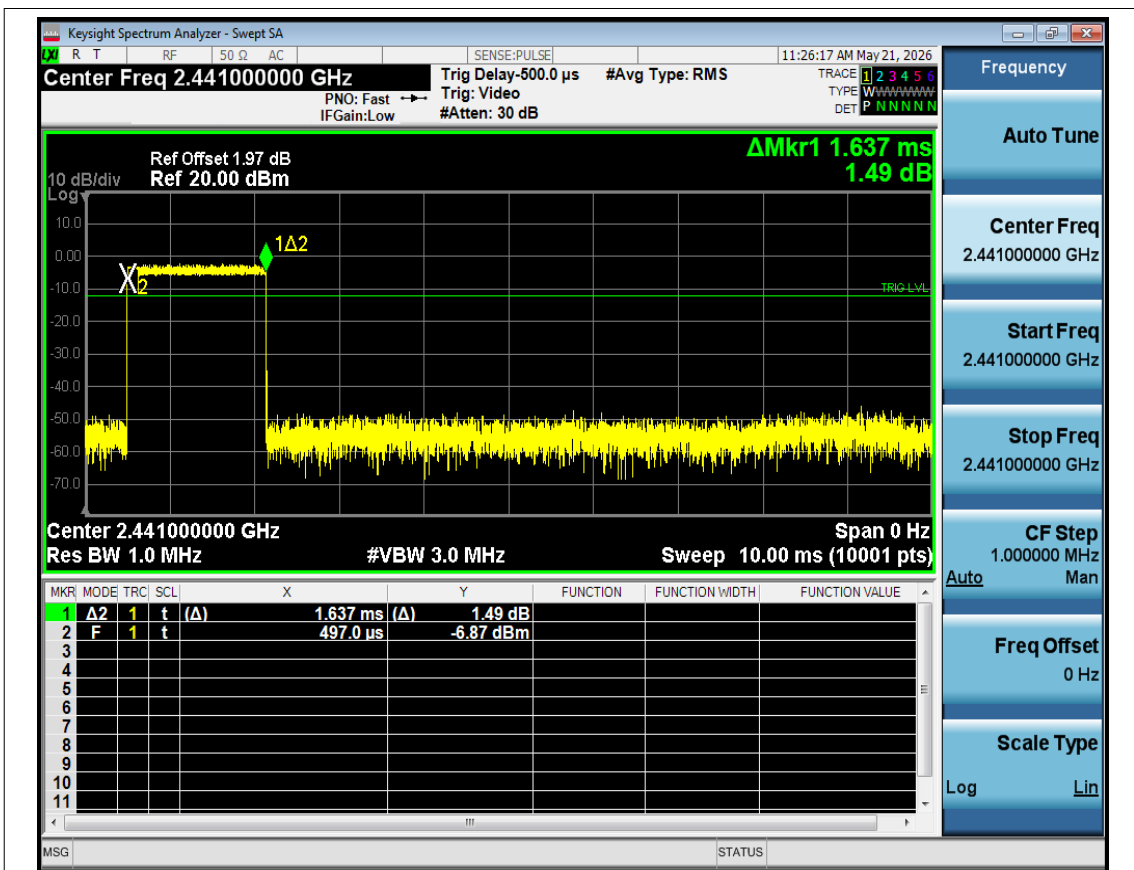
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



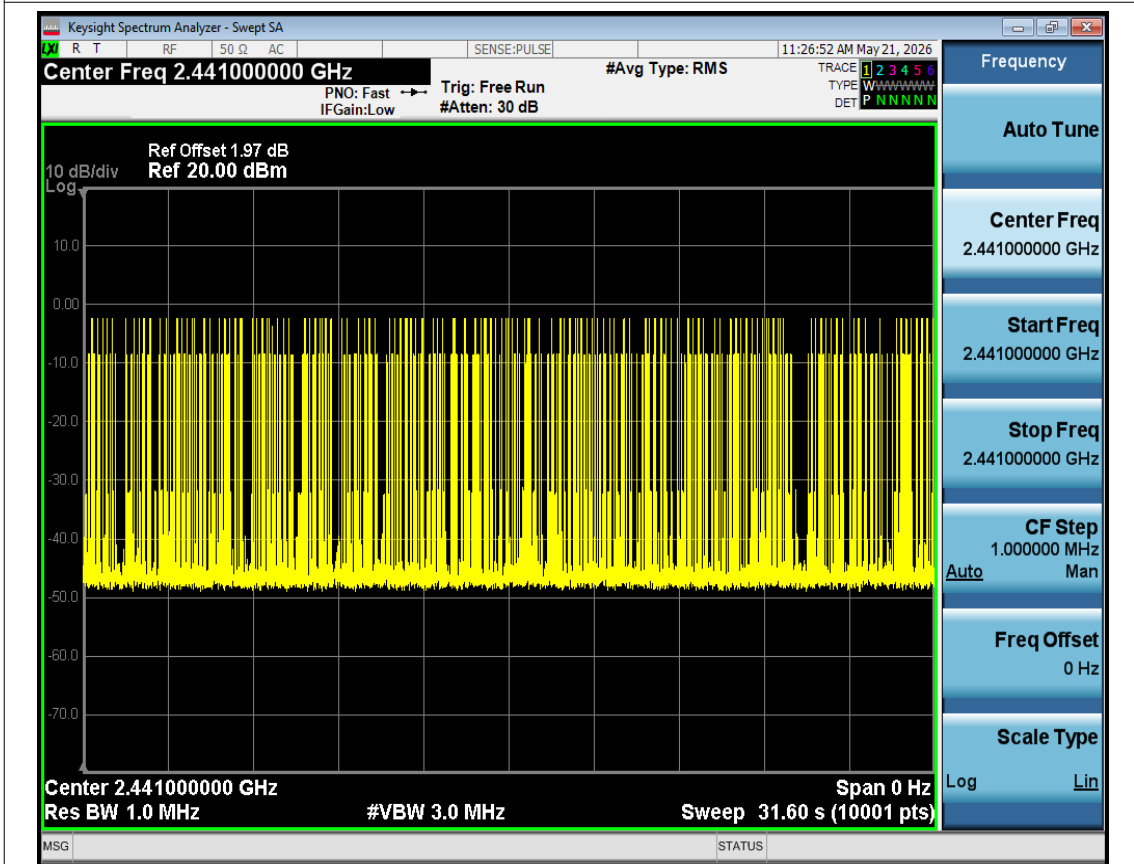
Dwell NVNT 3-DH1 2441MHz Ant1 One Burst



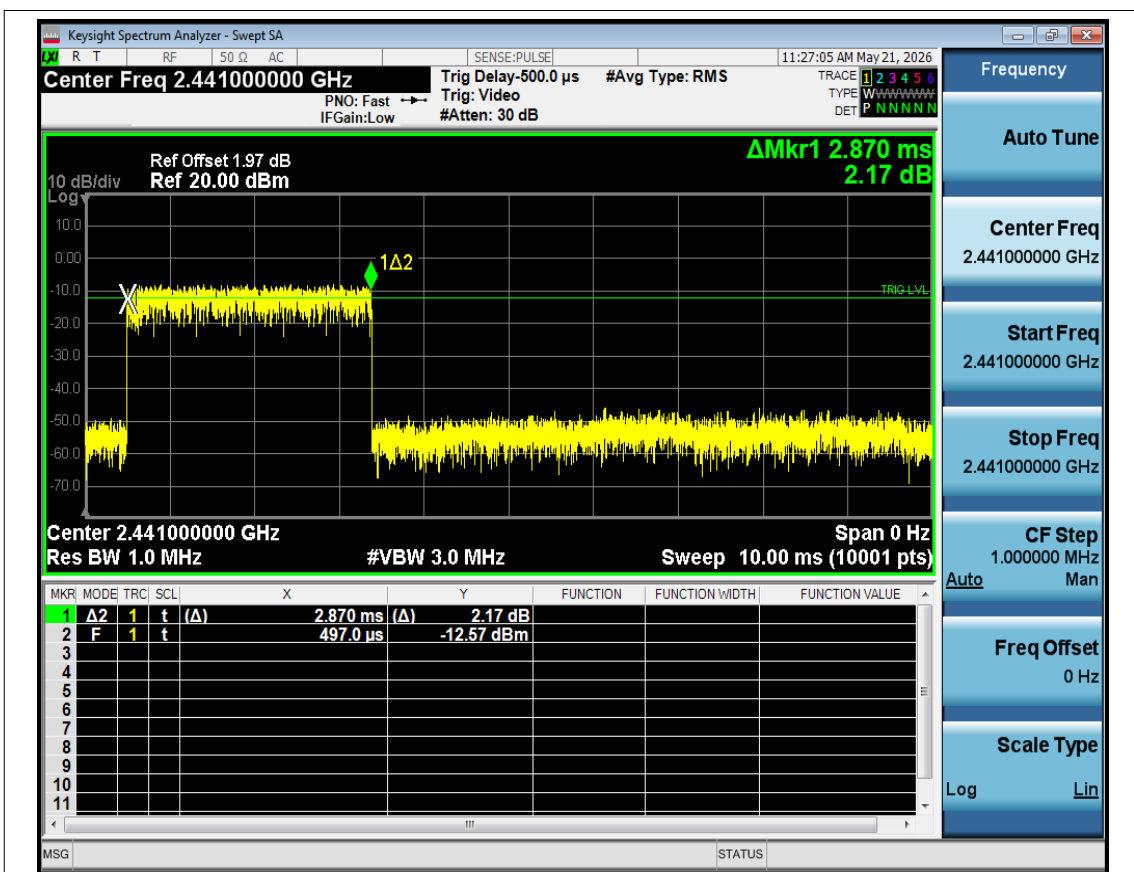
Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated



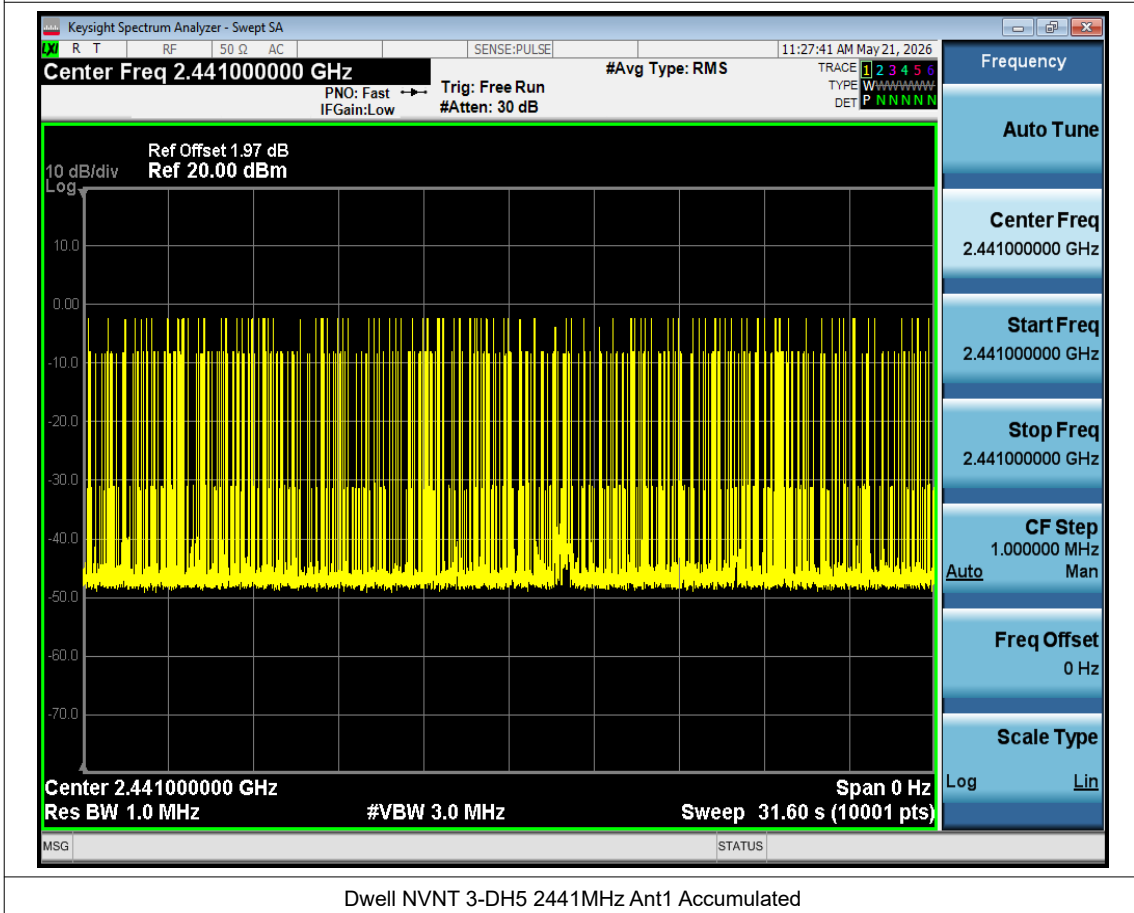
Dwell NVNT 3-DH3 2441MHz Ant1 One Burst



Dwell NVNT 3-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated