

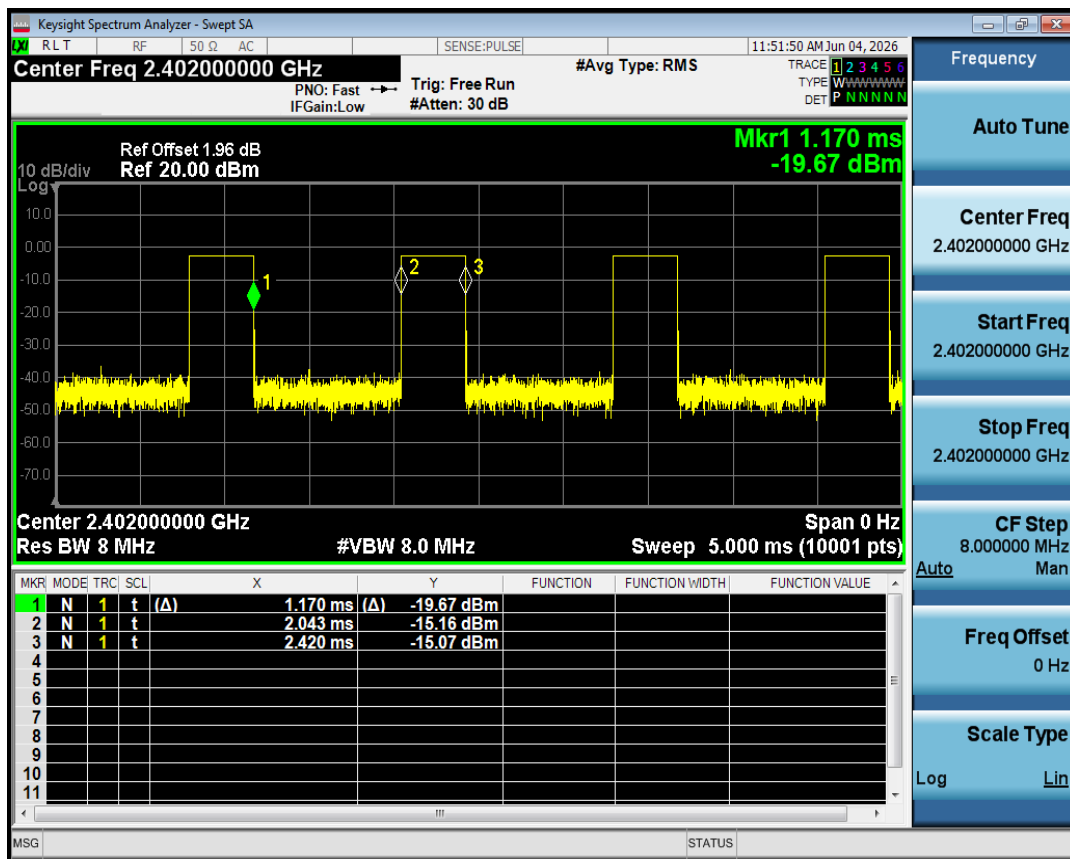
RF Test Data

FCC ID:2BWJP-K90

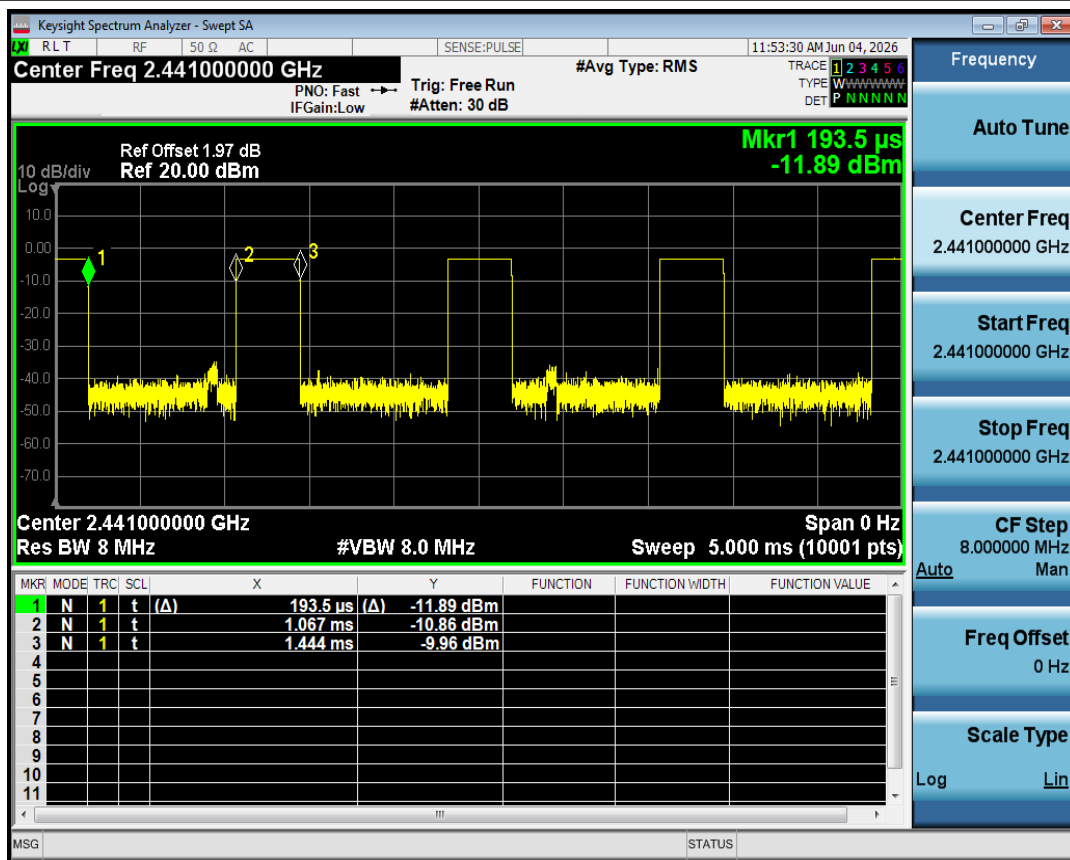
Duty Cycle	2
Maximum Peak Conducted Output Power	8
-20dB Bandwidth	14
Occupied Channel Bandwidth	20
Carrier Frequencies Separation	26
Band Edge	32
Band Edge(Hopping)	39
Conducted RF Spurious Emission	46
Number of Hopping Channel	56
Dwell Time	59

Duty Cycle

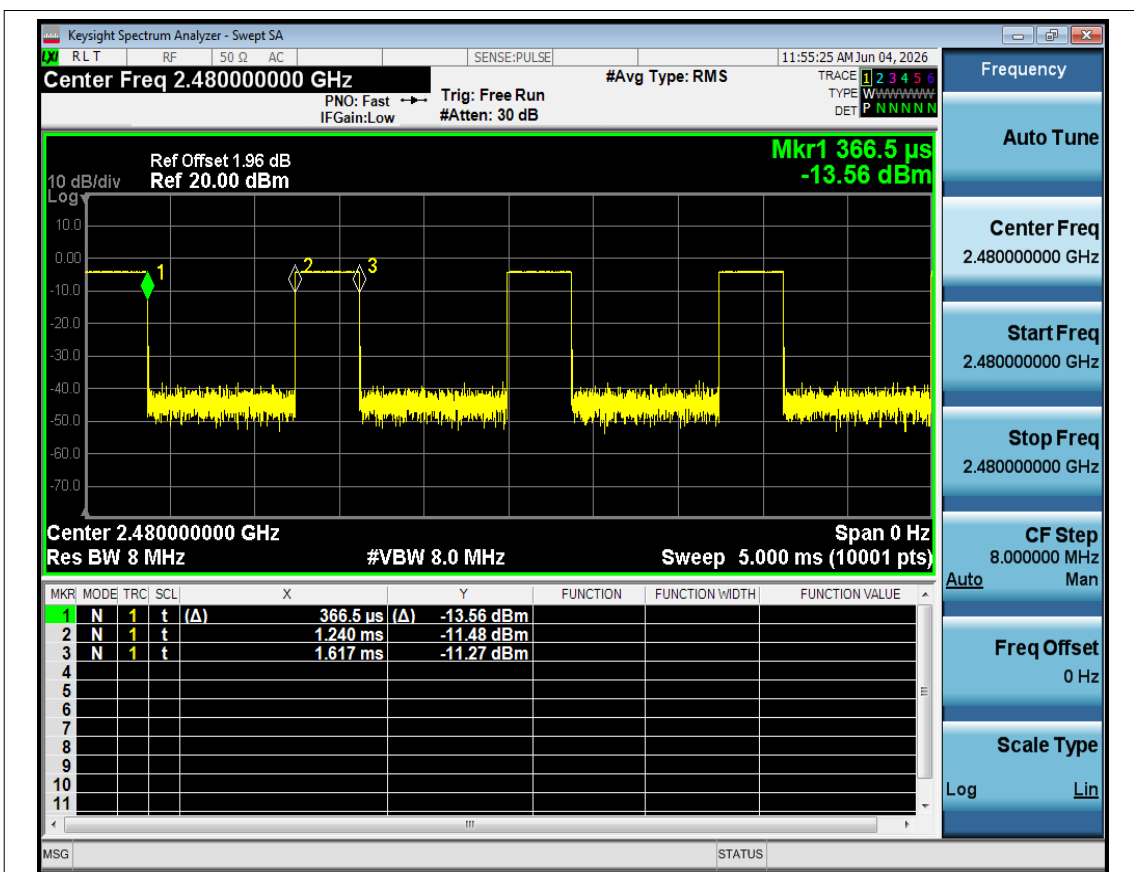
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.16	5.21	2.65
NVNT	1-DH1	2441	Ant1	30.12	5.21	2.66
NVNT	1-DH1	2480	Ant1	30.12	5.21	2.66
NVNT	2-DH1	2402	Ant1	30.95	5.09	2.58
NVNT	2-DH1	2441	Ant1	30.96	5.09	2.58
NVNT	2-DH1	2480	Ant1	30.95	5.09	2.58
NVNT	3-DH1	2402	Ant1	31.03	5.08	2.58
NVNT	3-DH1	2441	Ant1	31	5.09	2.58
NVNT	3-DH1	2480	Ant1	31.03	5.08	2.58



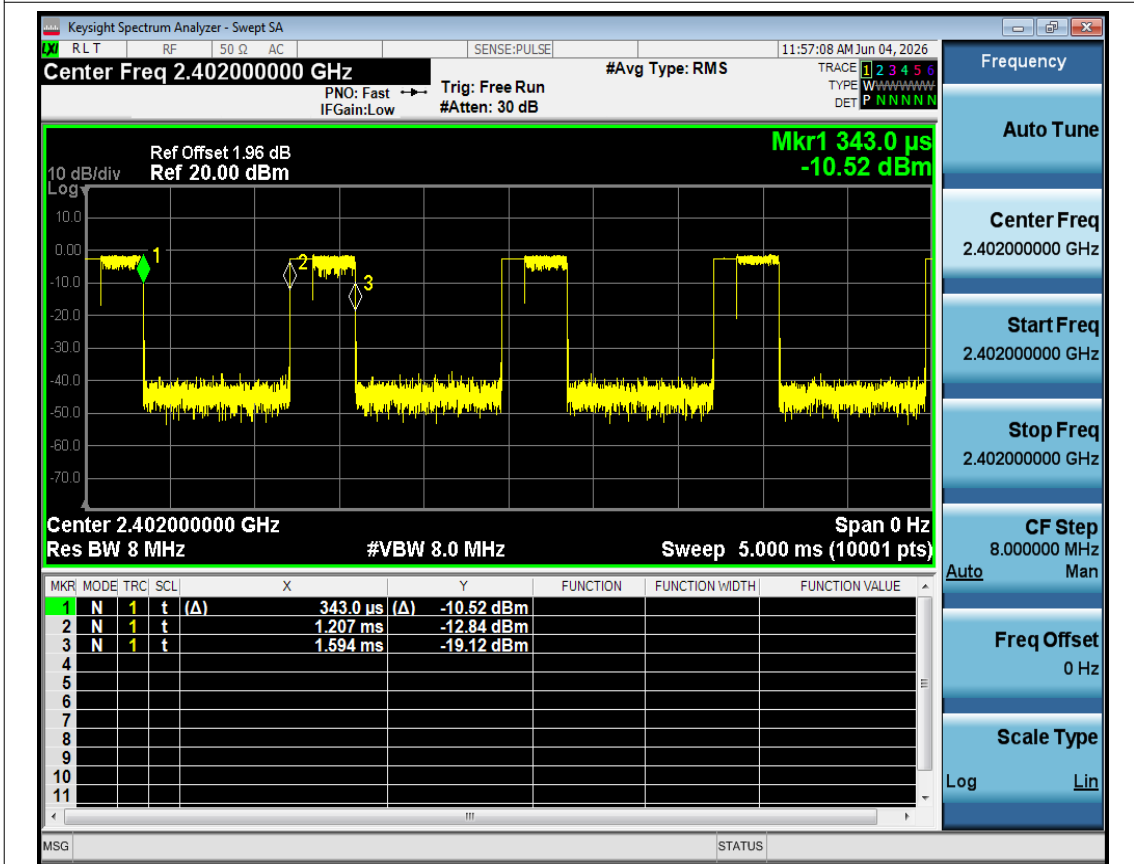
Duty Cycle NVNT 1-DH1 2402MHz Ant1



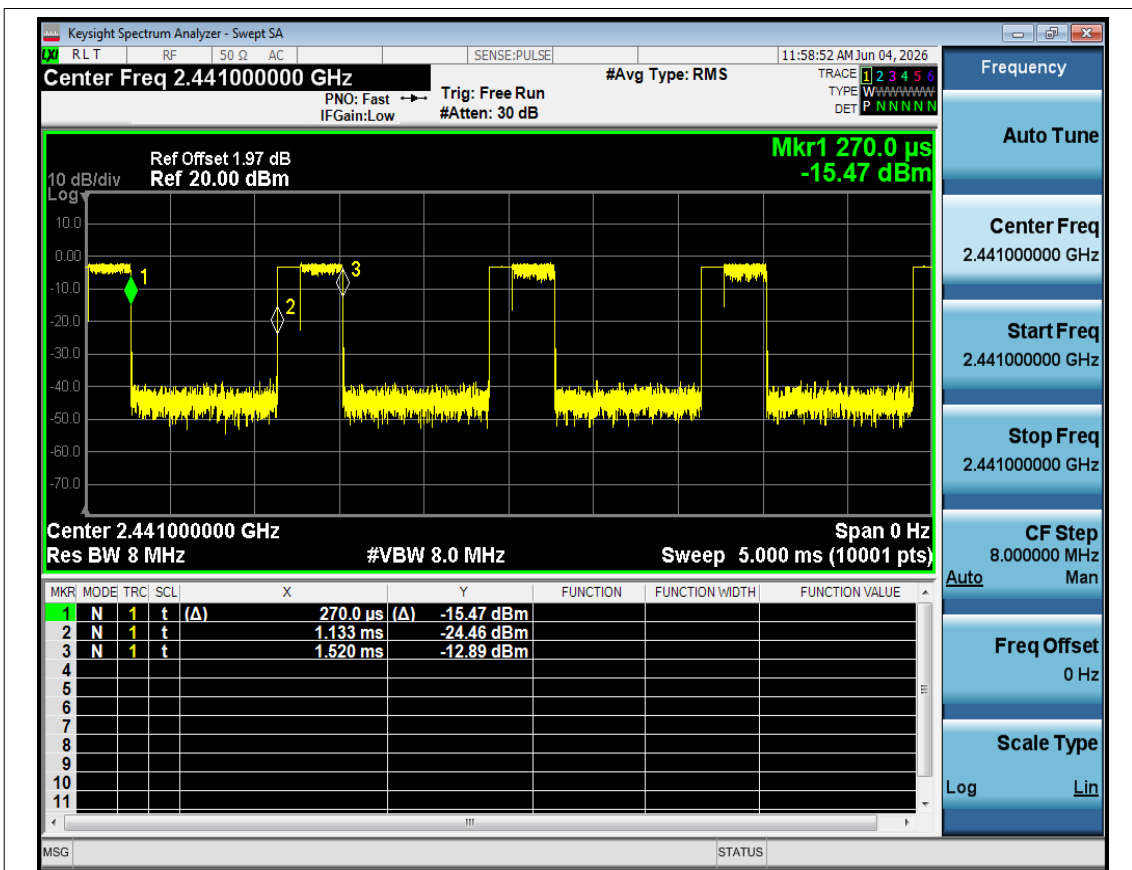
Duty Cycle NVNT 1-DH1 2441MHz Ant1



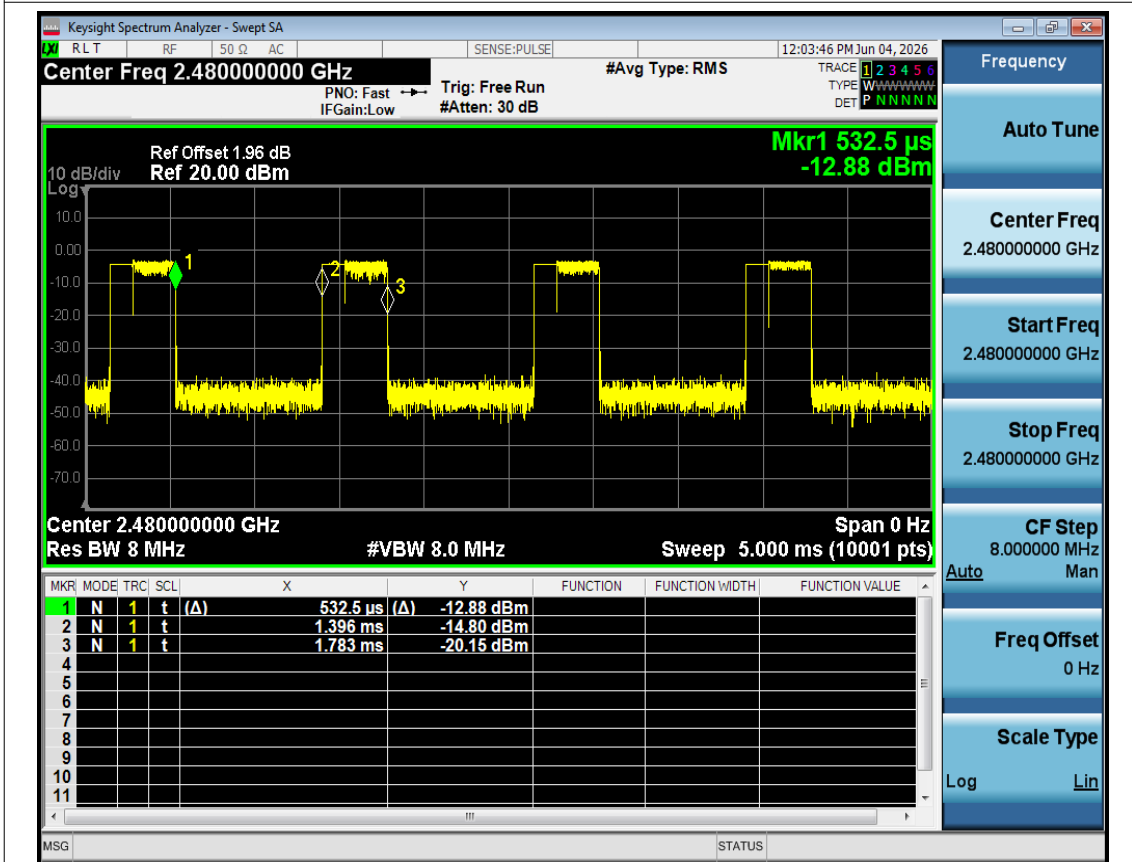
Duty Cycle NVNT 1-DH1 2480MHz Ant1



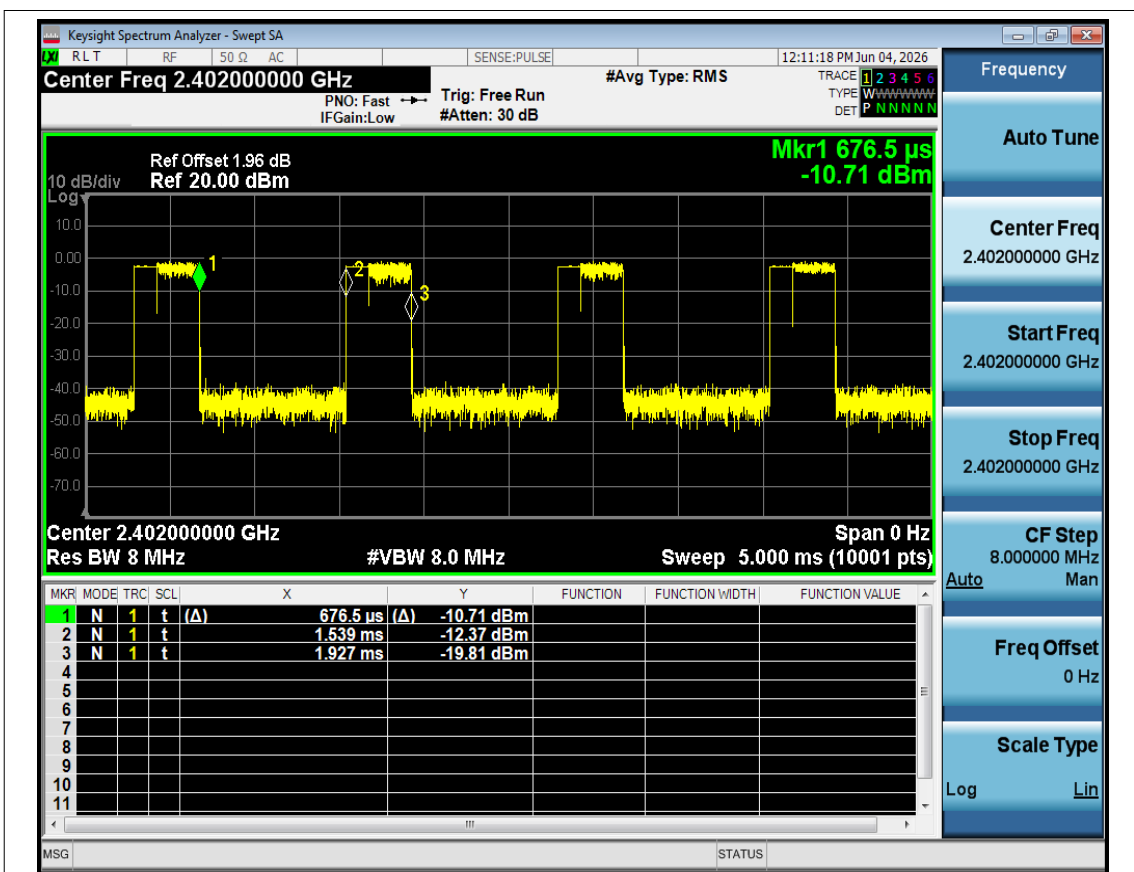
Duty Cycle NVNT 2-DH1 2402MHz Ant1



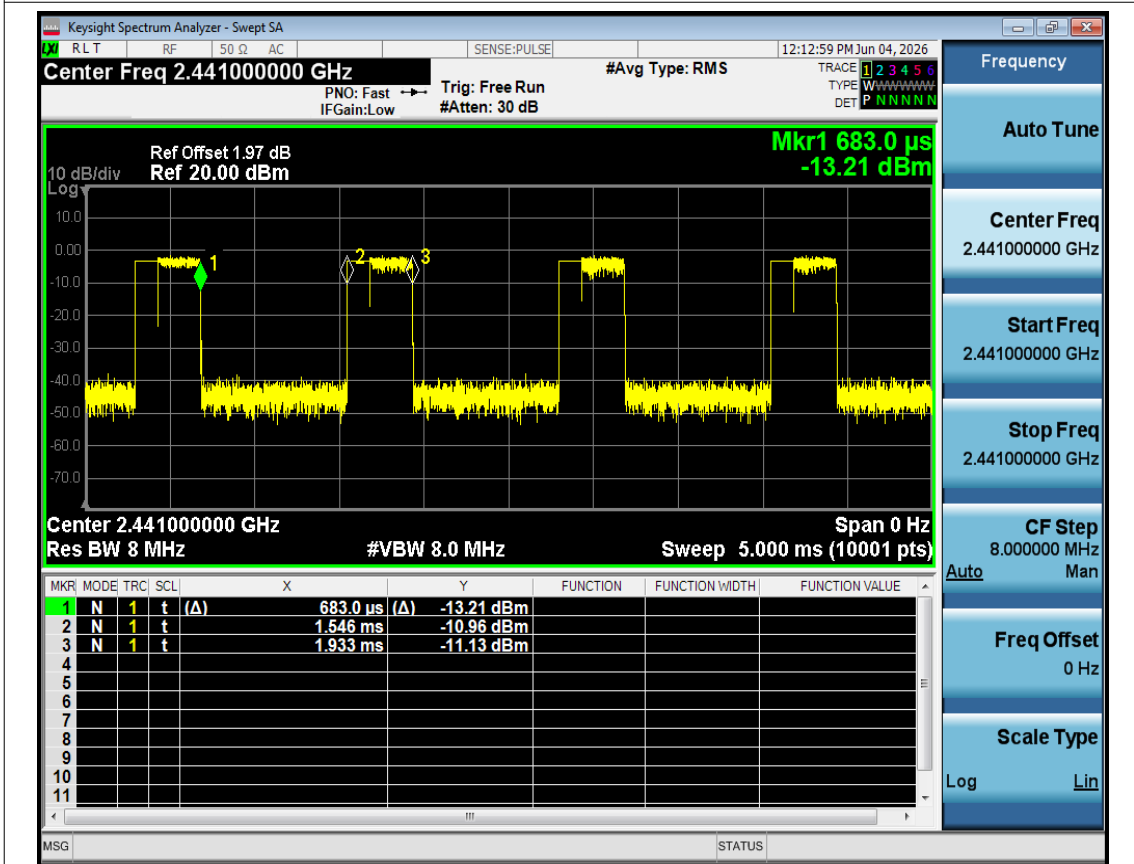
Duty Cycle NVNT 2-DH1 2441MHz Ant1



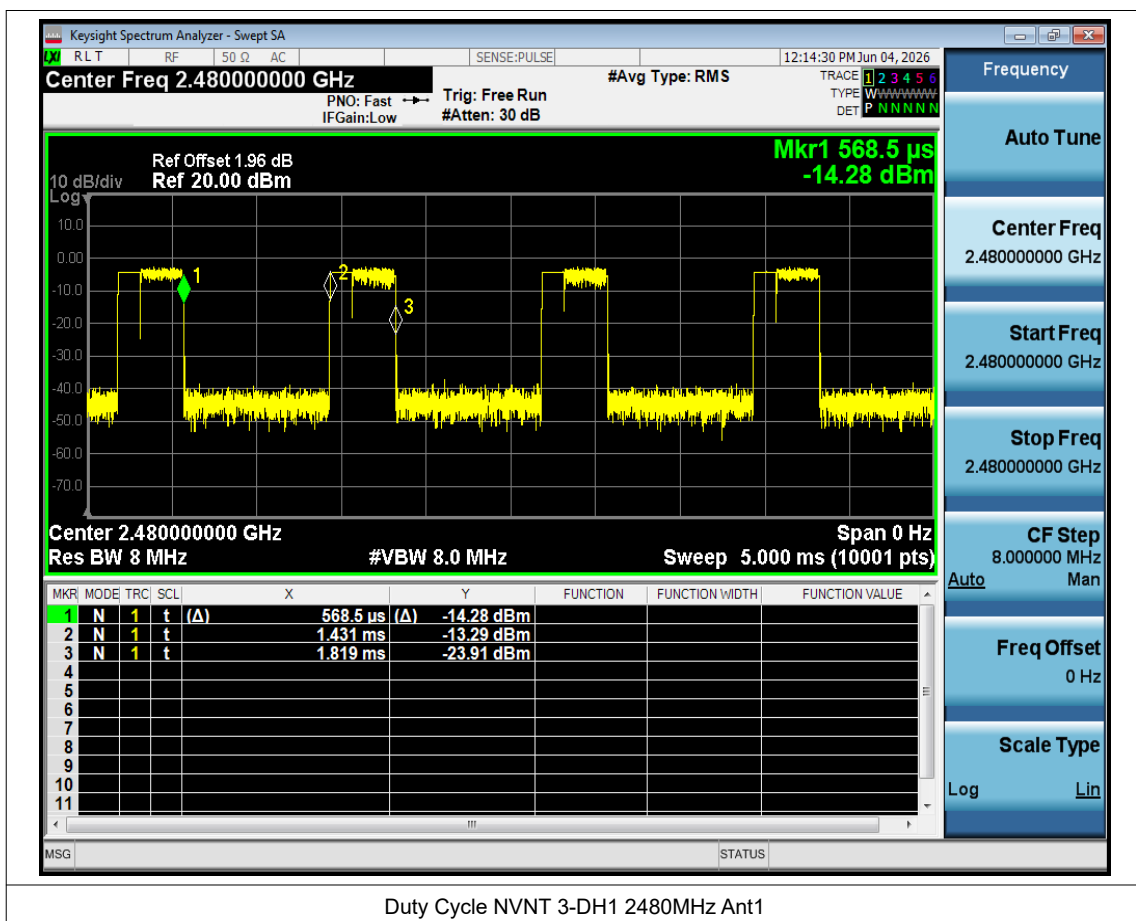
Duty Cycle NVNT 2-DH1 2480MHz Ant1



Duty Cycle NVNT 3-DH1 2402MHz Ant1

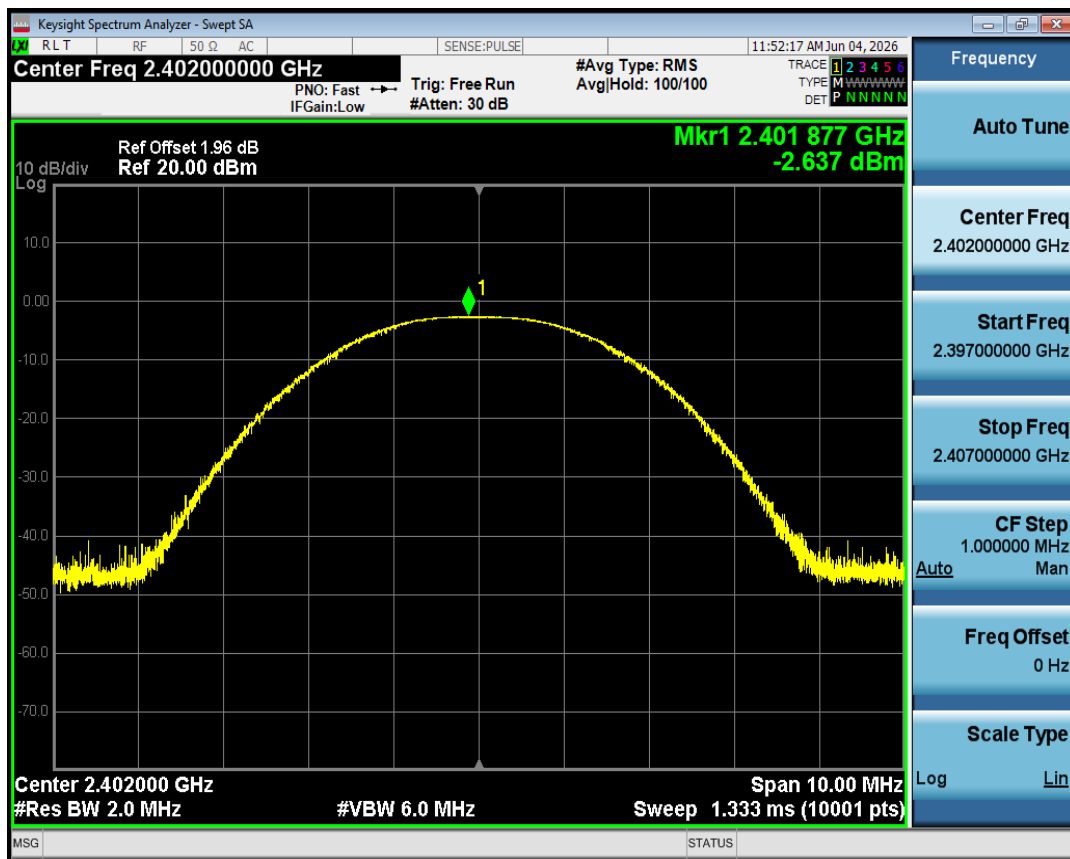


Duty Cycle NVNT 3-DH1 2441MHz Ant1

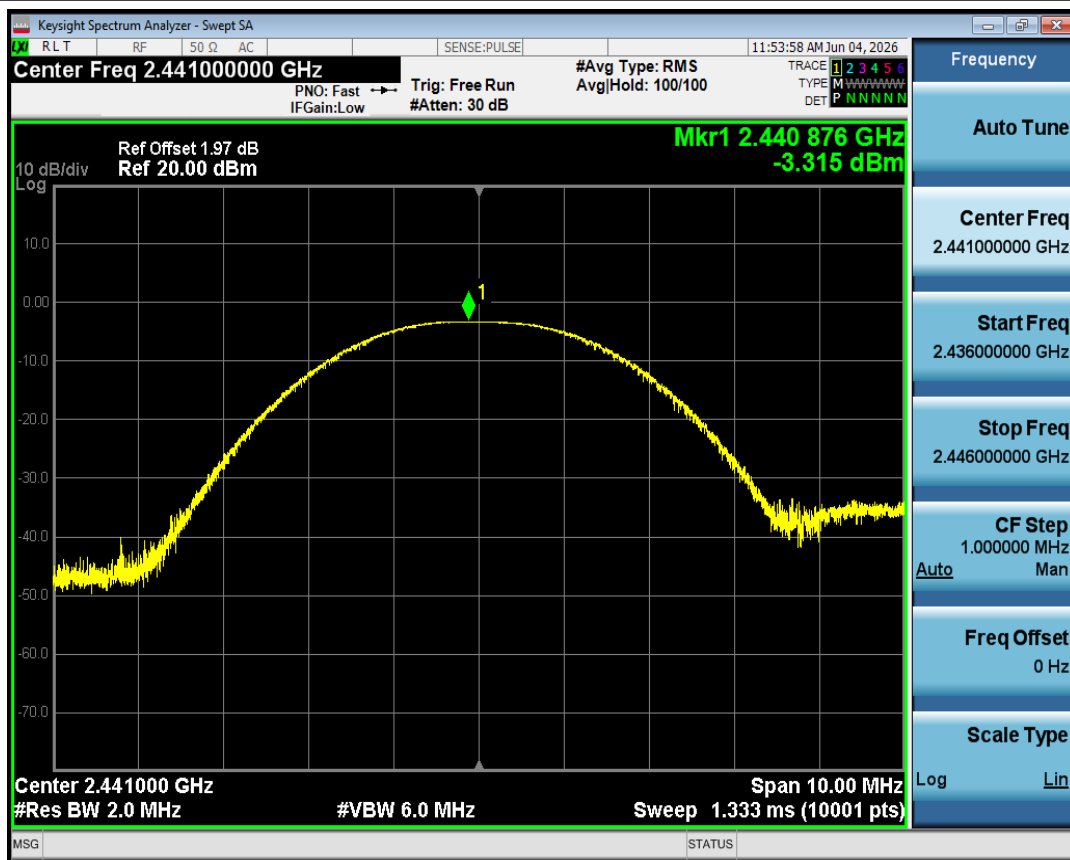


Maximum Peak Conducted Output Power

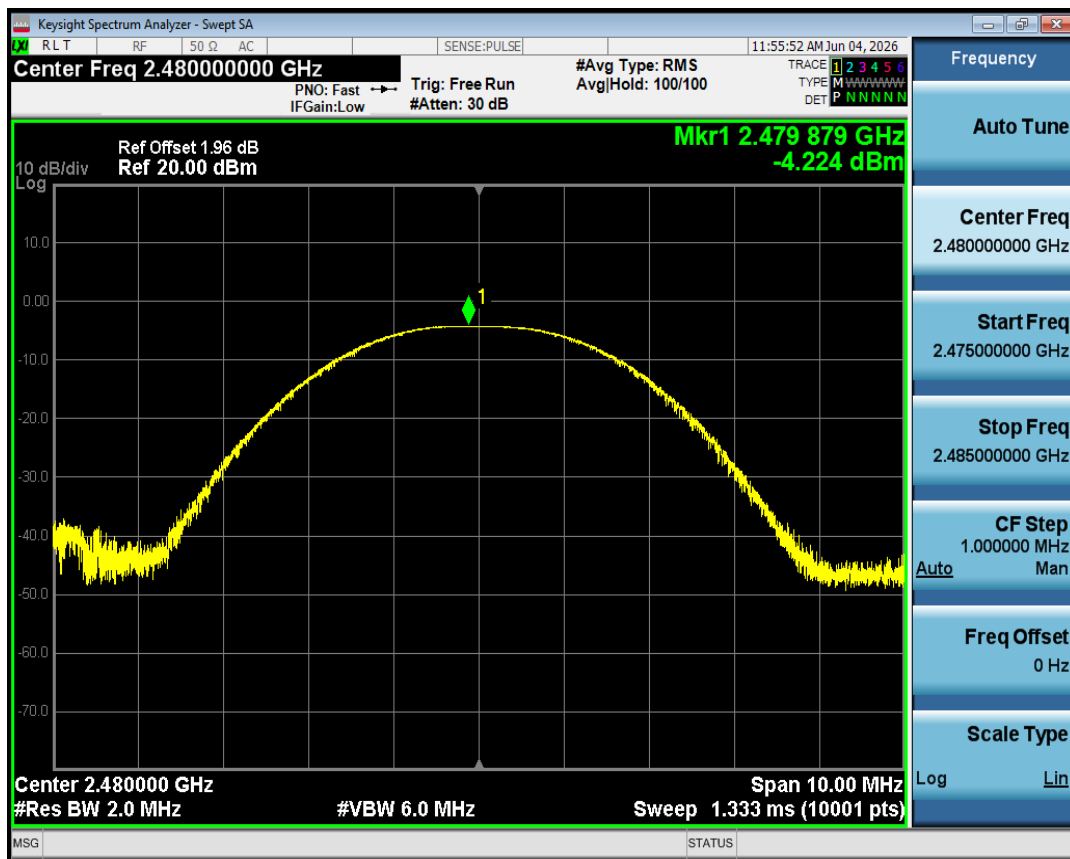
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Conducted Power (W)	Limit Conducted(dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-2.64	0.00054	21	Pass
NVNT	1-DH1	2441	Ant1	-3.32	0.00047	21	Pass
NVNT	1-DH1	2480	Ant1	-4.22	0.00038	21	Pass
NVNT	2-DH1	2402	Ant1	-1.8	0.00066	21	Pass
NVNT	2-DH1	2441	Ant1	-2.67	0.00054	21	Pass
NVNT	2-DH1	2480	Ant1	-3.47	0.00045	21	Pass
NVNT	3-DH1	2402	Ant1	-1.18	0.00076	21	Pass
NVNT	3-DH1	2441	Ant1	-1.93	0.00064	21	Pass
NVNT	3-DH1	2480	Ant1	-2.87	0.00052	21	Pass



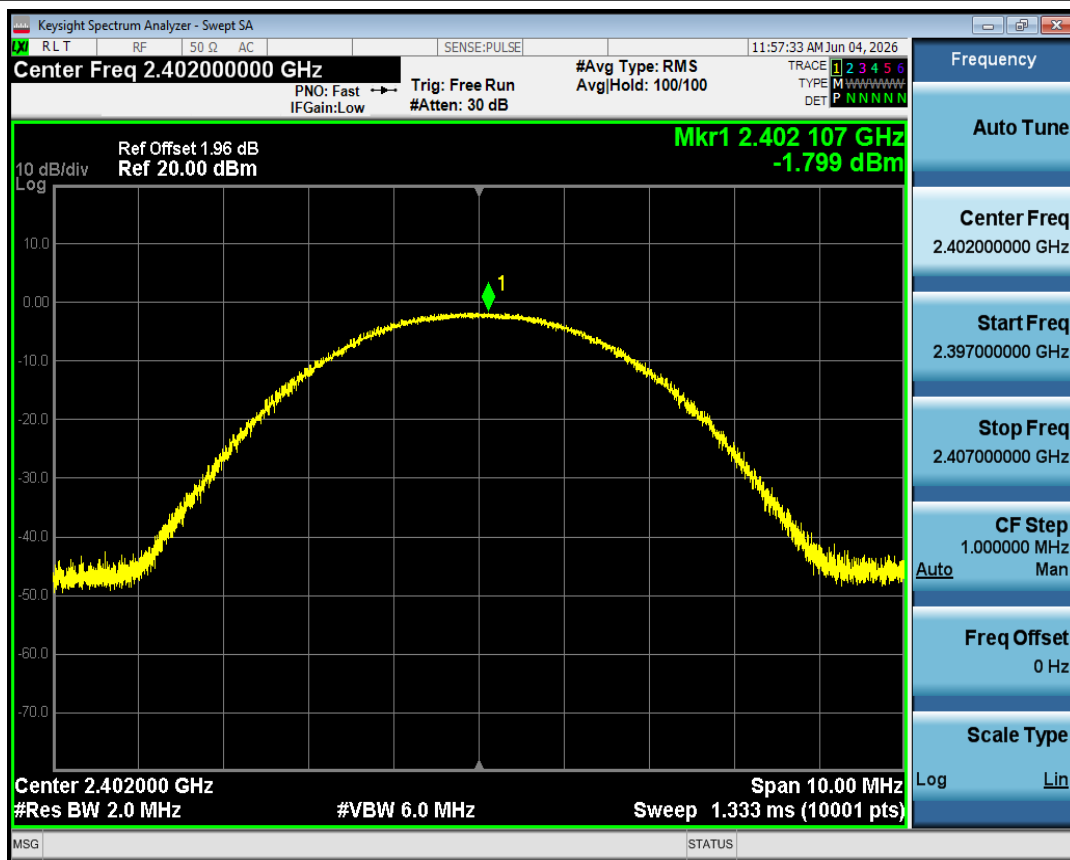
Peak Power NVNT 1-DH1 2402MHz Ant1



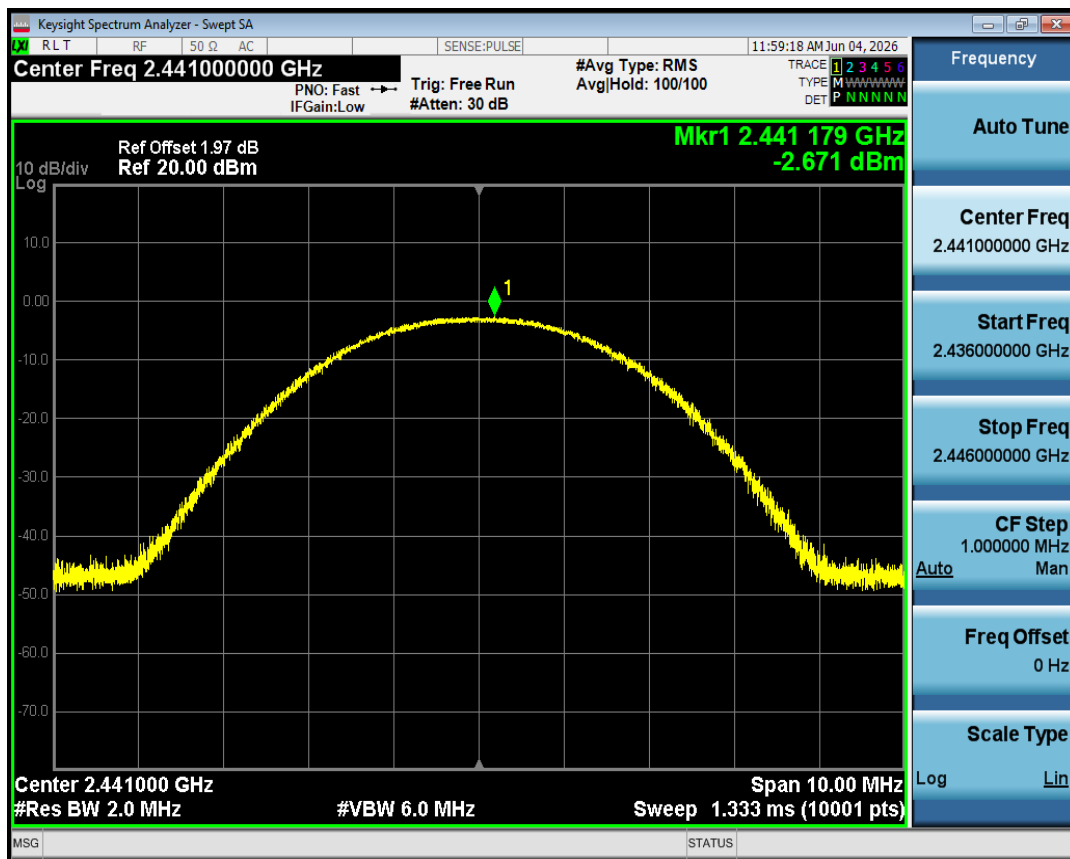
Peak Power NVNT 1-DH1 2441MHz Ant1



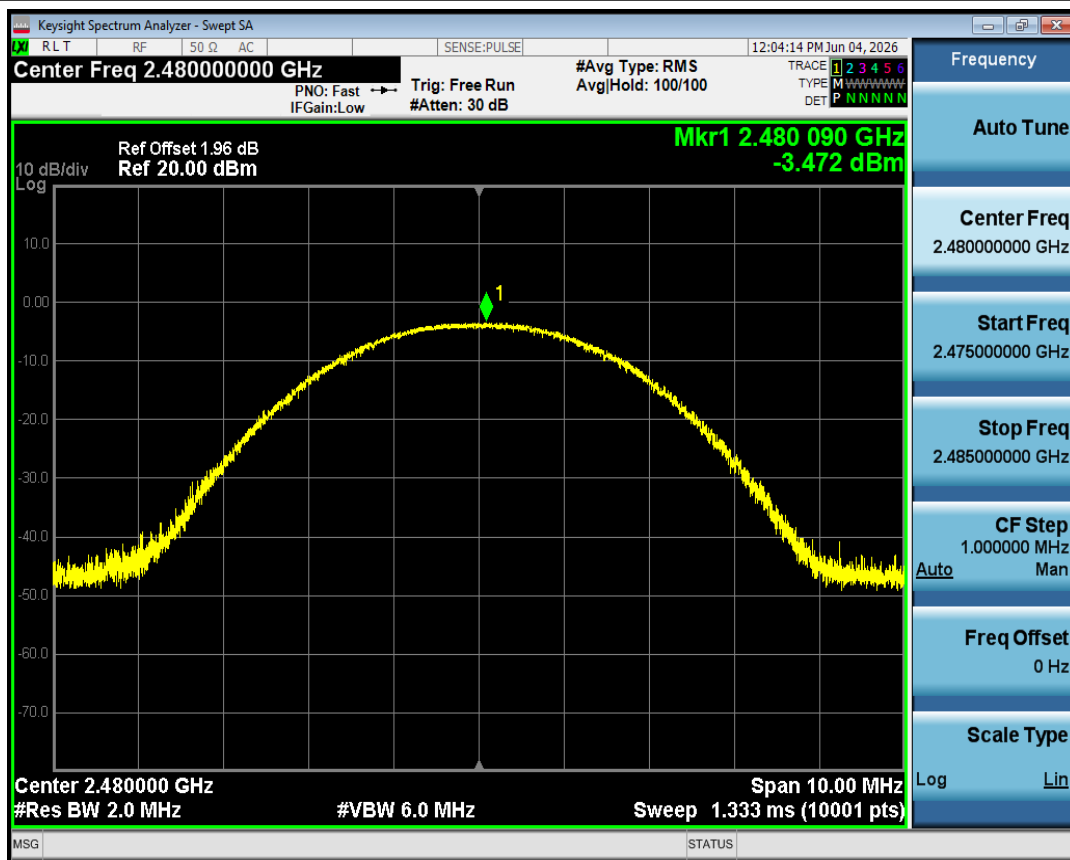
Peak Power NVNT 1-DH1 2480MHz Ant1



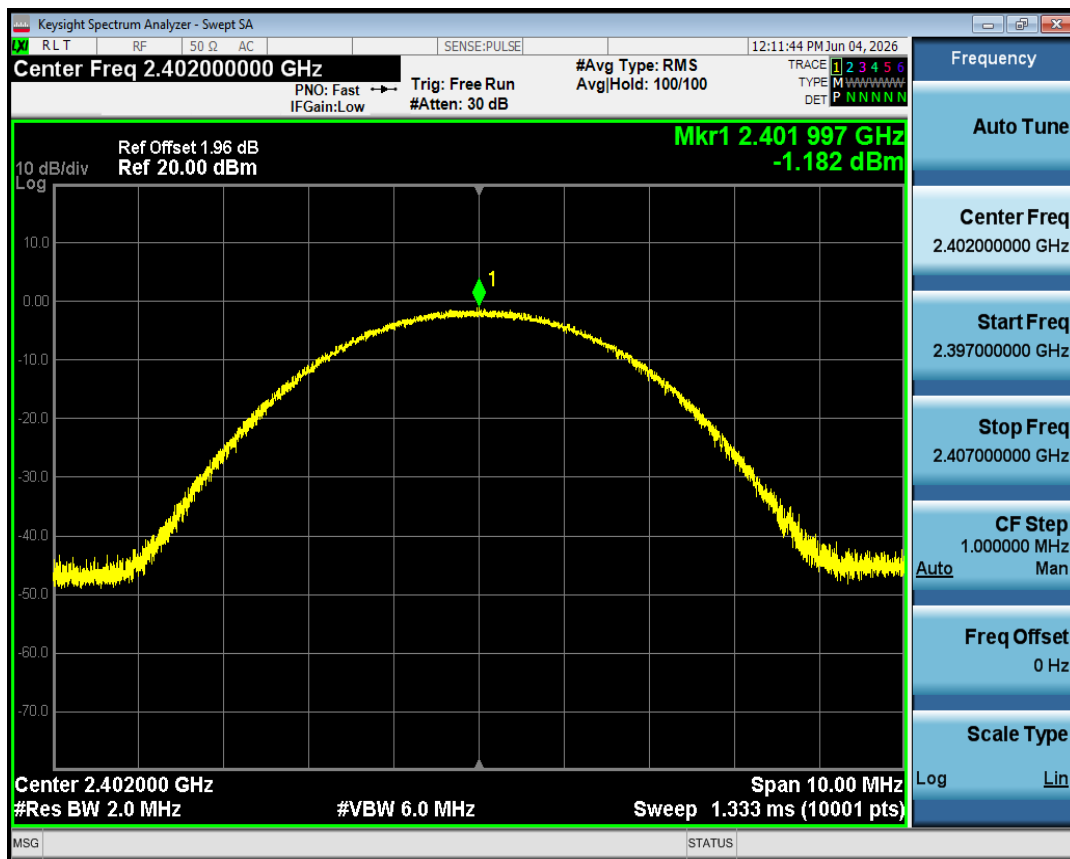
Peak Power NVNT 2-DH1 2402MHz Ant1



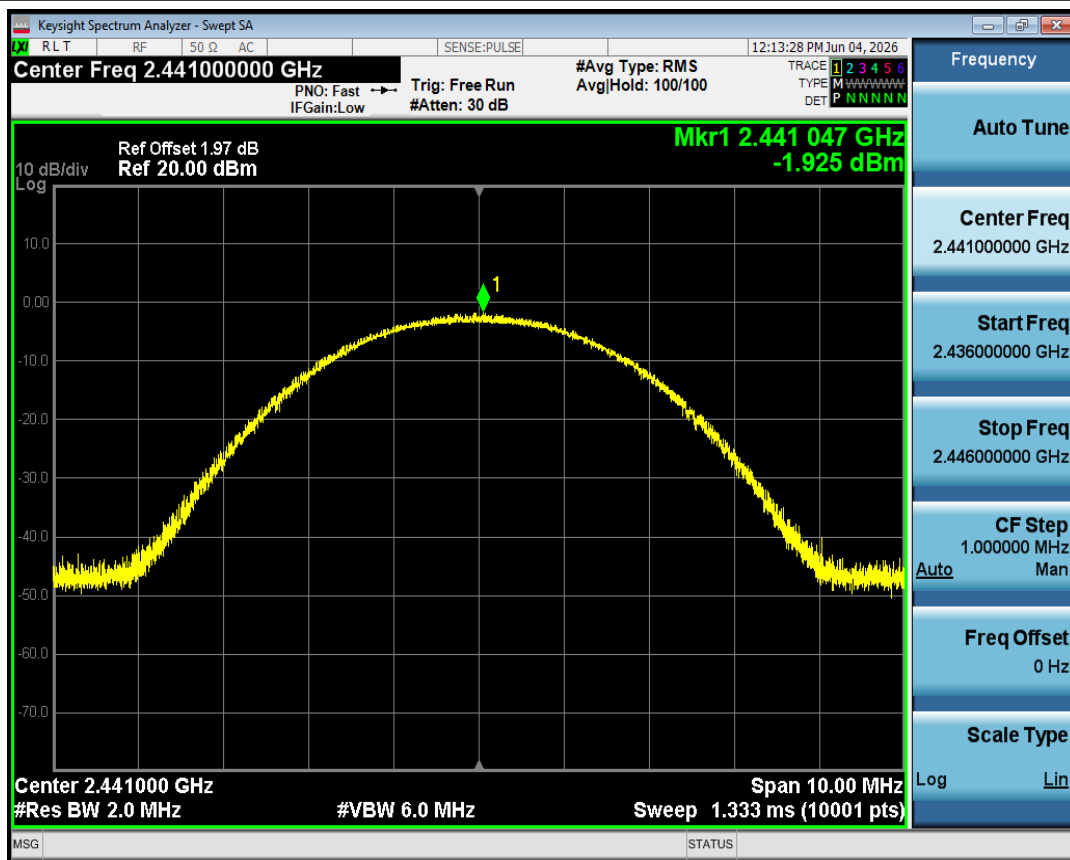
Peak Power NVNT 2-DH1 2441MHz Ant1



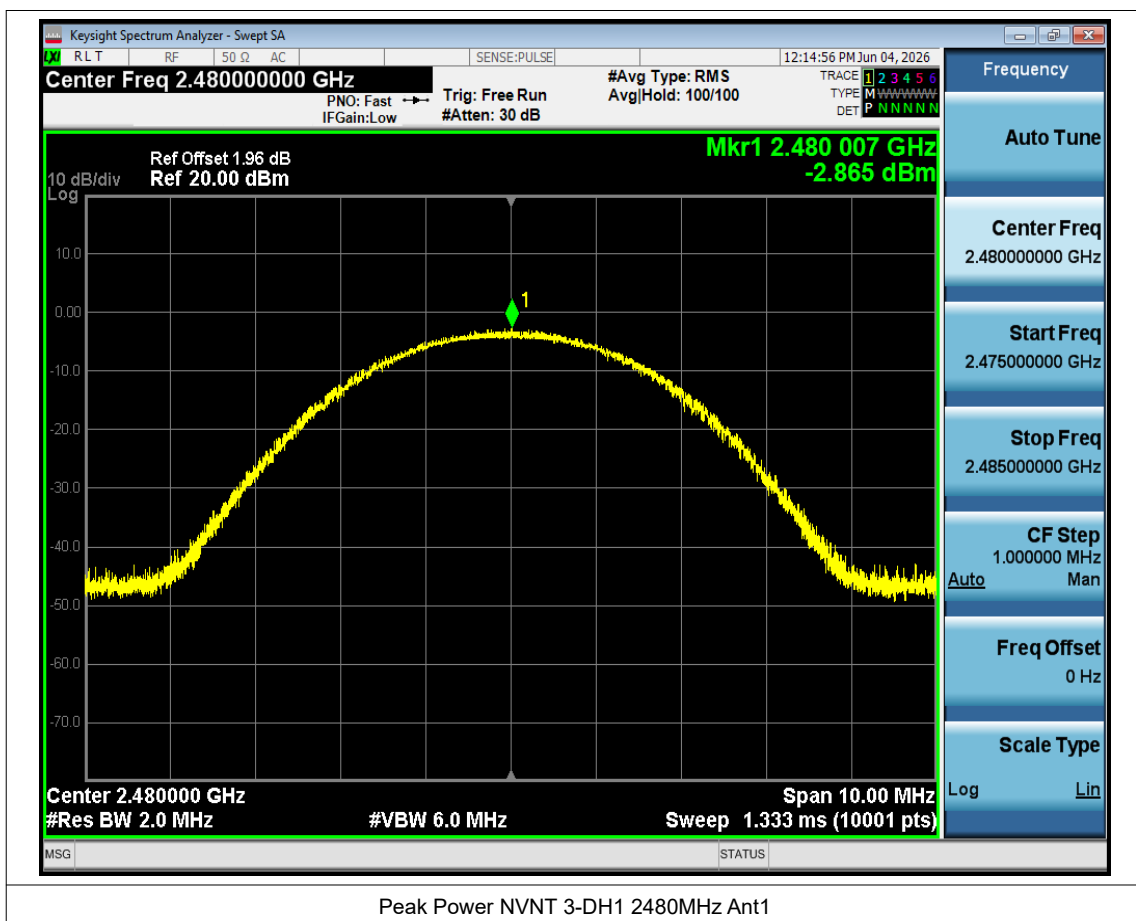
Peak Power NVNT 2-DH1 2480MHz Ant1



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)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	1.029	/	Pass
NVNT	1-DH1	2441	Ant1	1.031	/	Pass
NVNT	1-DH1	2480	Ant1	1.023	/	Pass
NVNT	2-DH1	2402	Ant1	1.291	/	Pass
NVNT	2-DH1	2441	Ant1	1.277	/	Pass
NVNT	2-DH1	2480	Ant1	1.274	/	Pass
NVNT	3-DH1	2402	Ant1	1.249	/	Pass
NVNT	3-DH1	2441	Ant1	1.274	/	Pass
NVNT	3-DH1	2480	Ant1	1.24	/	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	0.96776
NVNT	1-DH1	2441	Ant1	0.97163
NVNT	1-DH1	2480	Ant1	0.97295
NVNT	2-DH1	2402	Ant1	1.2142
NVNT	2-DH1	2441	Ant1	1.201
NVNT	2-DH1	2480	Ant1	1.1896
NVNT	3-DH1	2402	Ant1	1.175
NVNT	3-DH1	2441	Ant1	1.1749
NVNT	3-DH1	2480	Ant1	1.1885



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

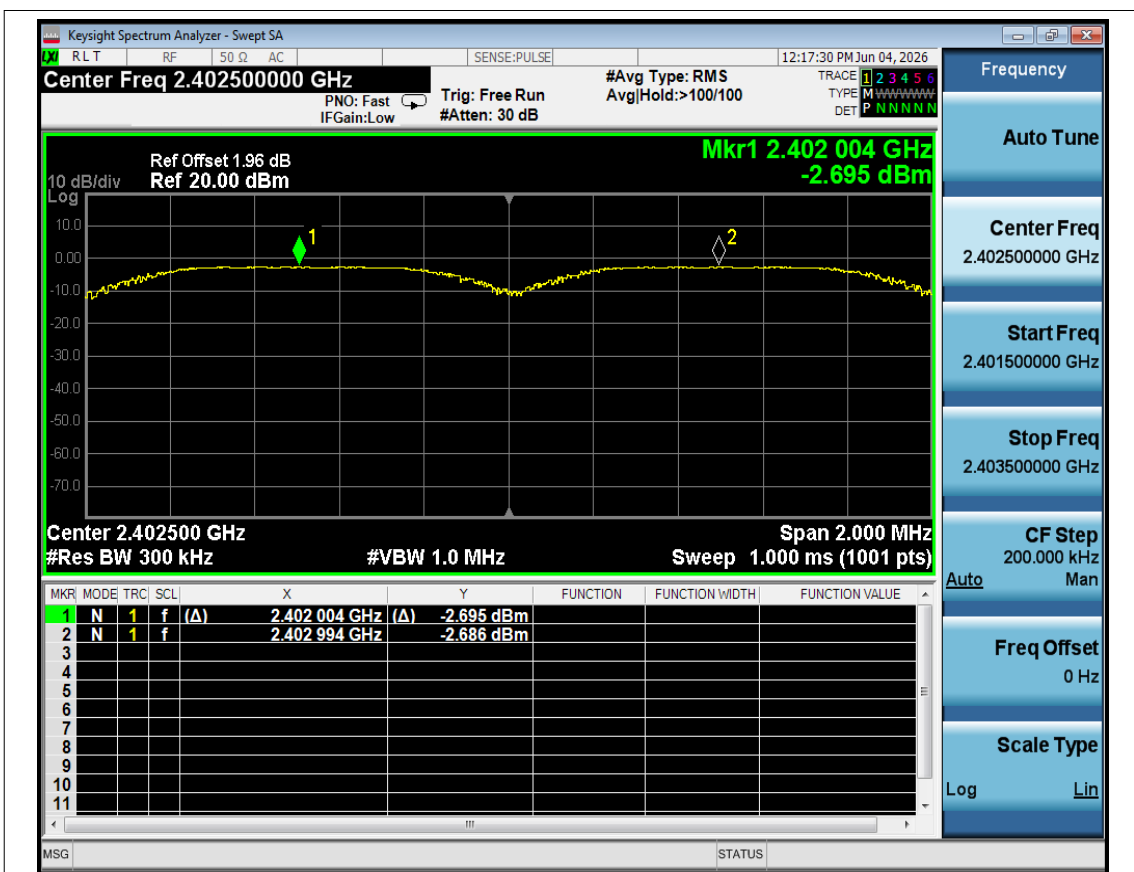


OBW NVNT 3-DH1 2441MHz Ant1

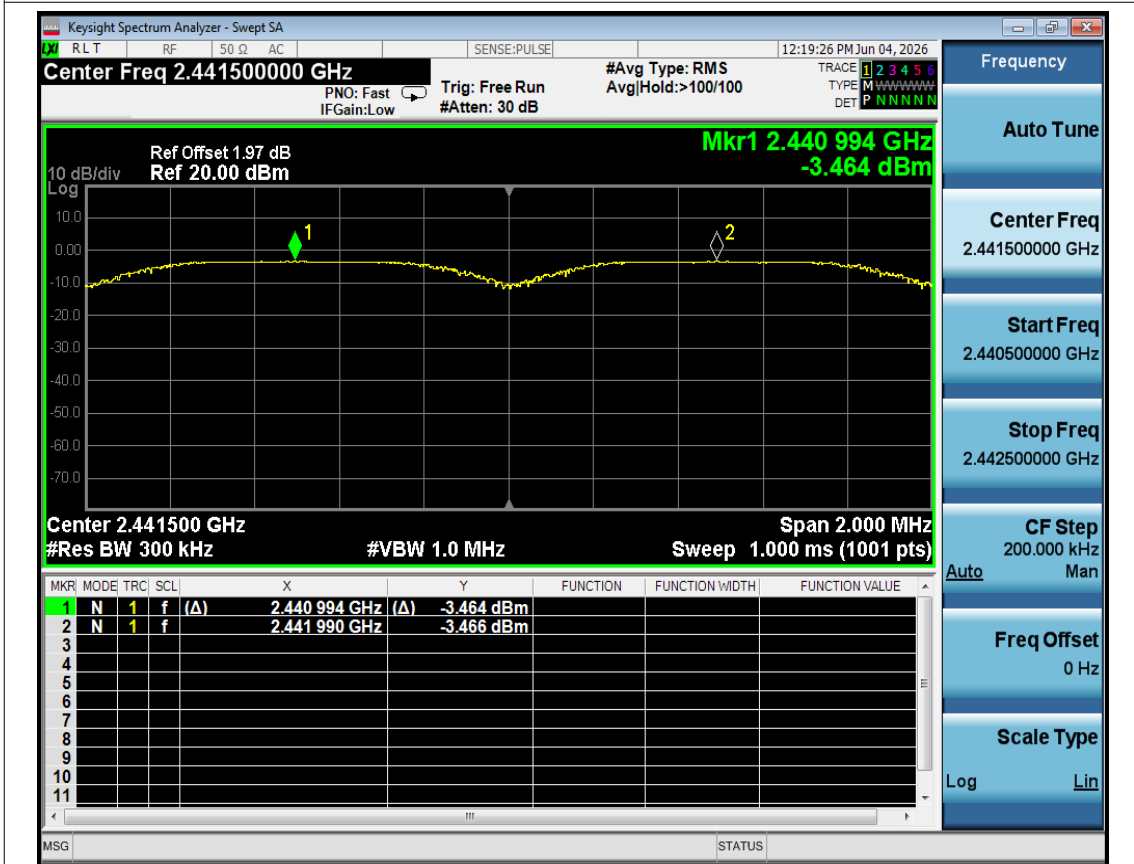


Carrier Frequencies Separation

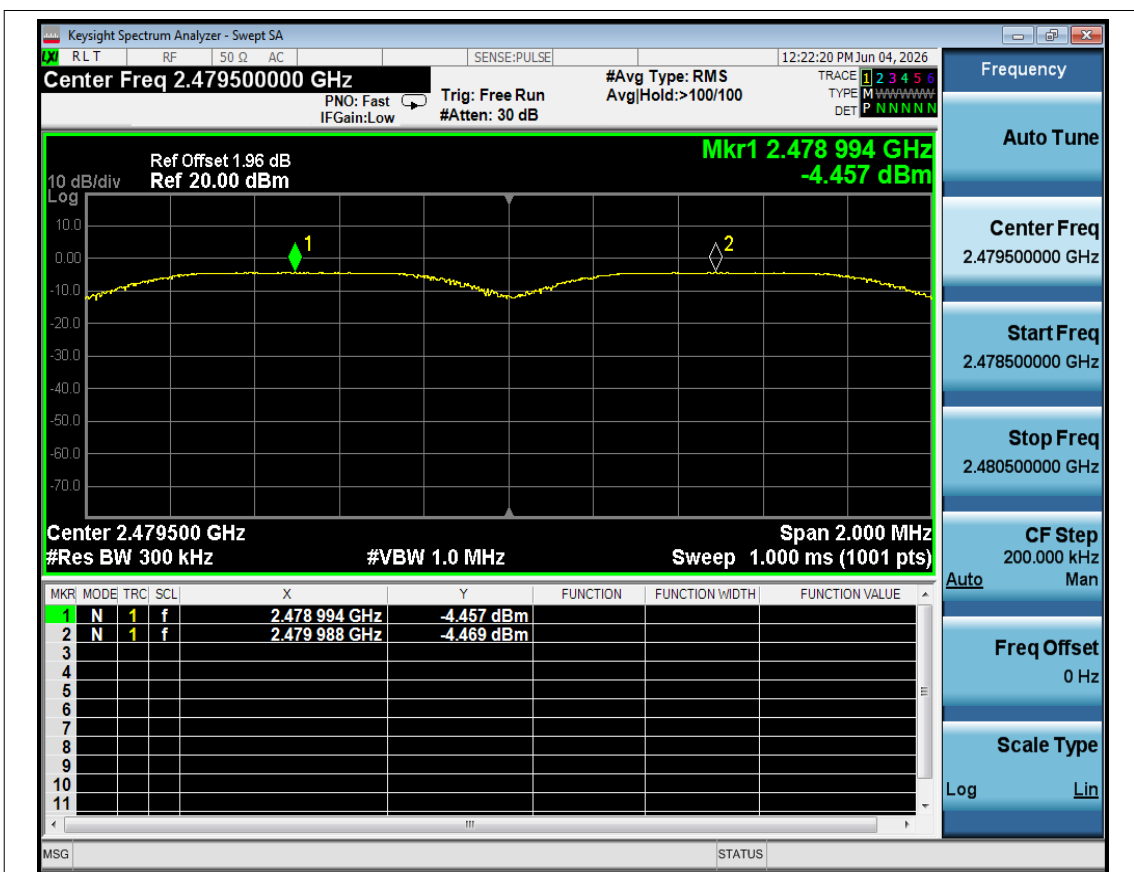
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2402.004	2402.994	0.99	0.686	Pass
NVNT	1-DH1	Ant1	2440.994	2441.99	0.996	0.687	Pass
NVNT	1-DH1	Ant1	2478.994	2479.988	0.994	0.682	Pass
NVNT	2-DH1	Ant1	2402.01	2403.014	1.004	0.861	Pass
NVNT	2-DH1	Ant1	2440.992	2441.99	0.998	0.851	Pass
NVNT	2-DH1	Ant1	2478.996	2479.976	0.98	0.849	Pass
NVNT	3-DH1	Ant1	2401.99	2402.99	1	0.833	Pass
NVNT	3-DH1	Ant1	2441.01	2441.994	0.984	0.849	Pass
NVNT	3-DH1	Ant1	2479.002	2479.978	0.976	0.827	Pass



CFS NVNT 1-DH1 2402MHz Ant1



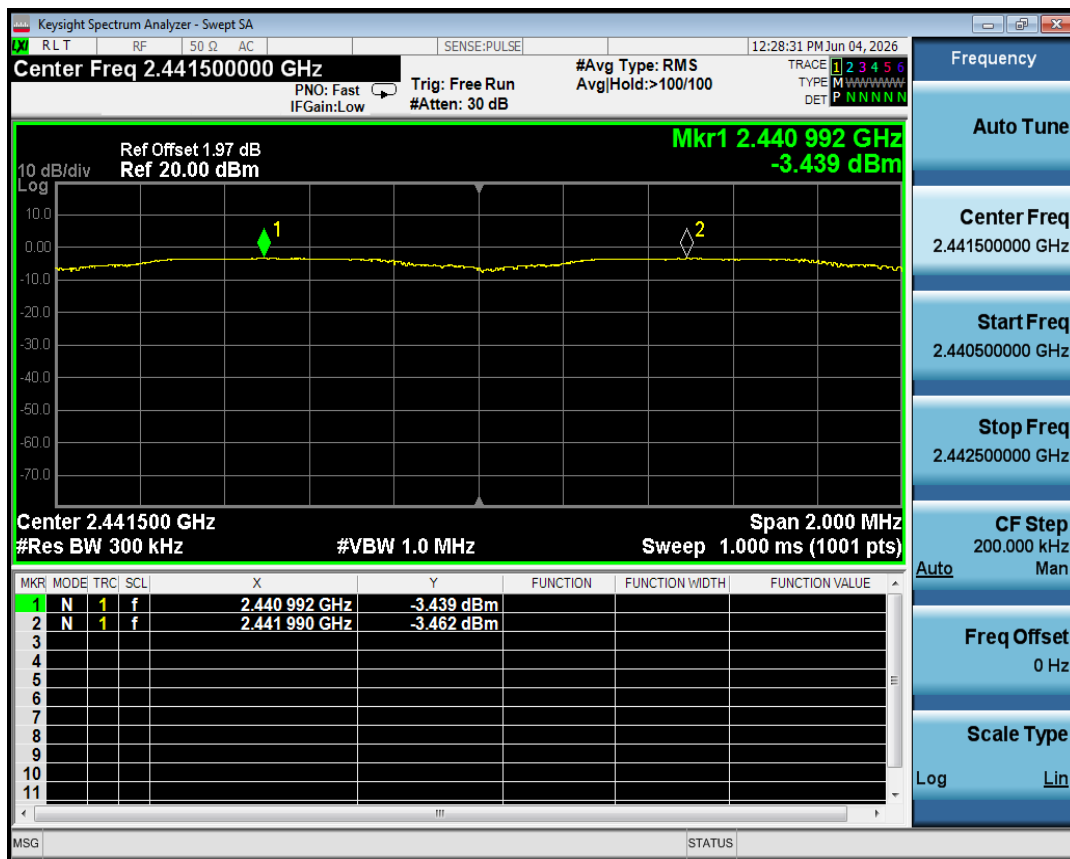
CFS NVNT 1-DH1 2441MHz Ant1



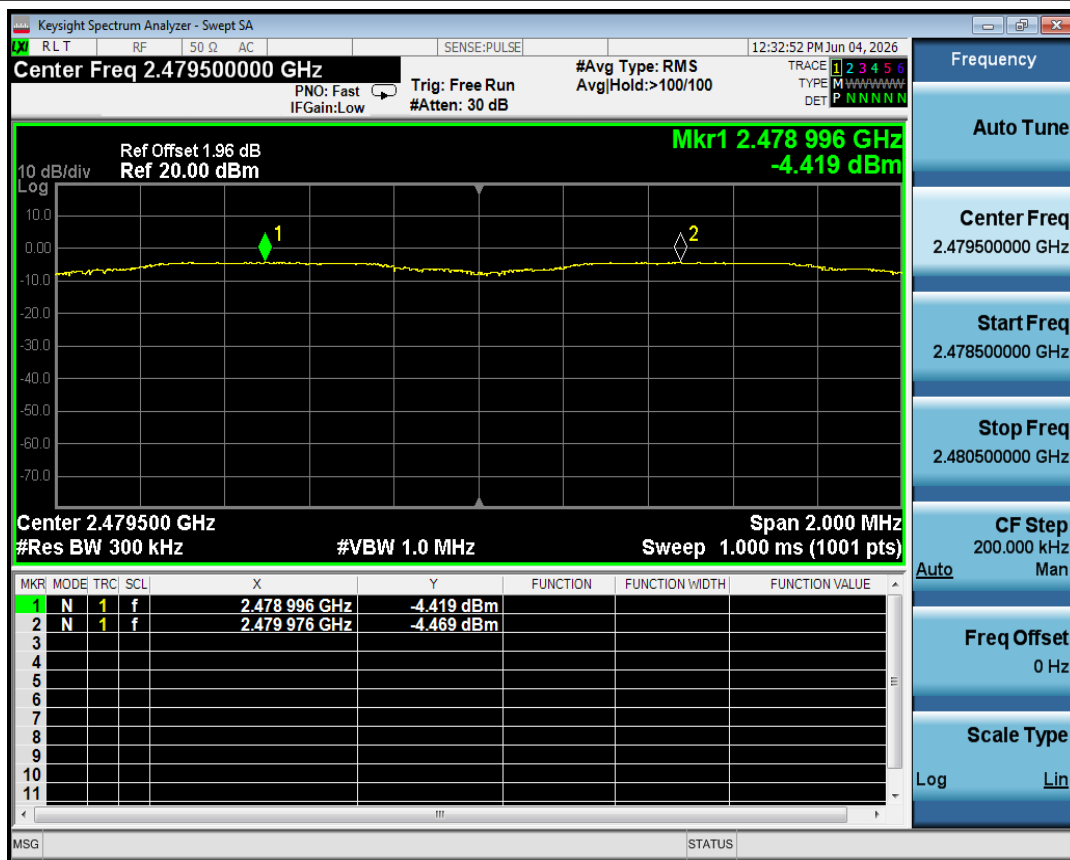
CFS NVNT 1-DH1 2480MHz Ant1



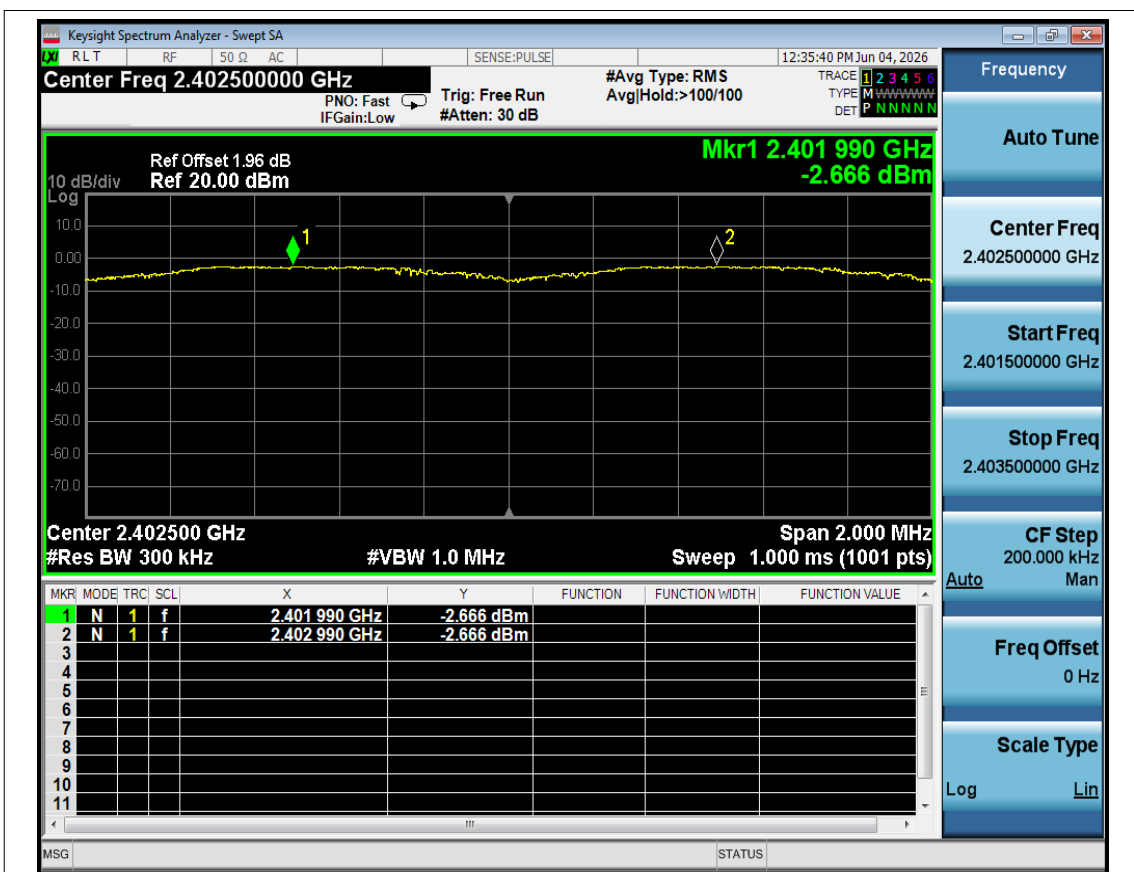
CFS NVNT 2-DH1 2402MHz Ant1



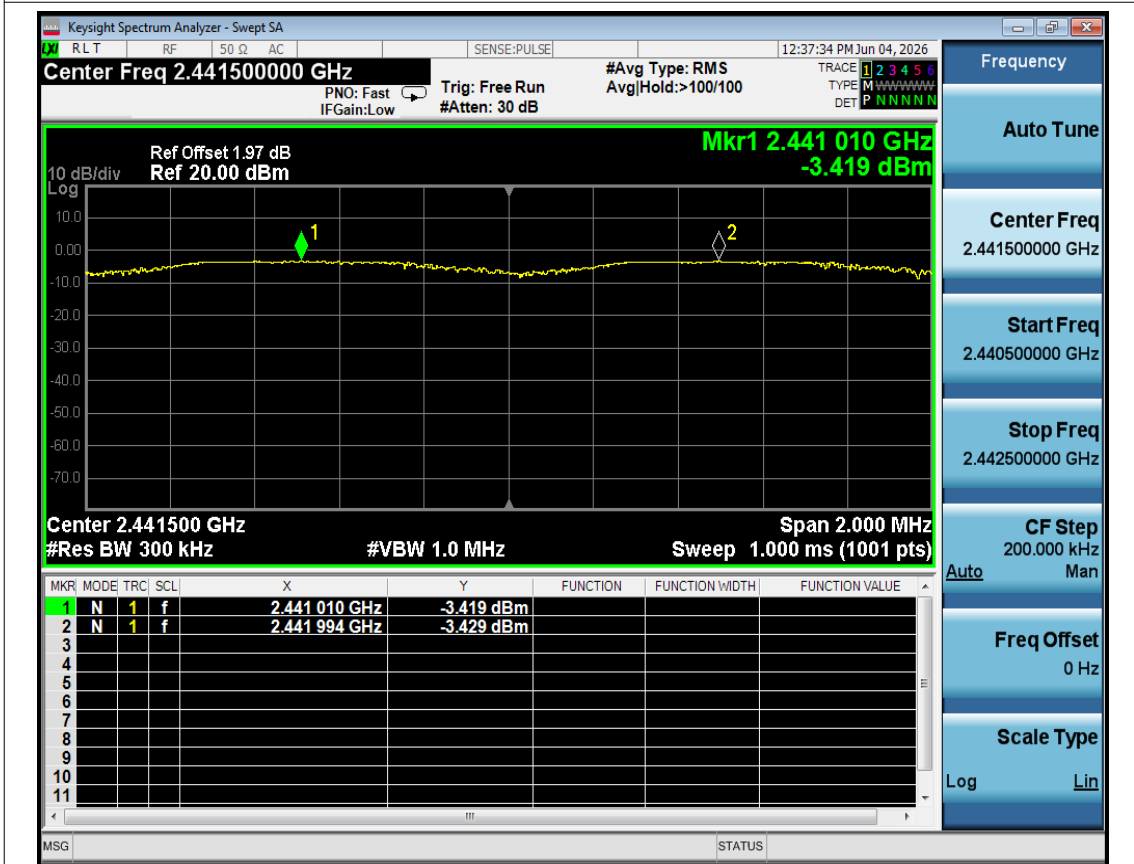
CFS NVNT 2-DH1 2441MHz Ant1



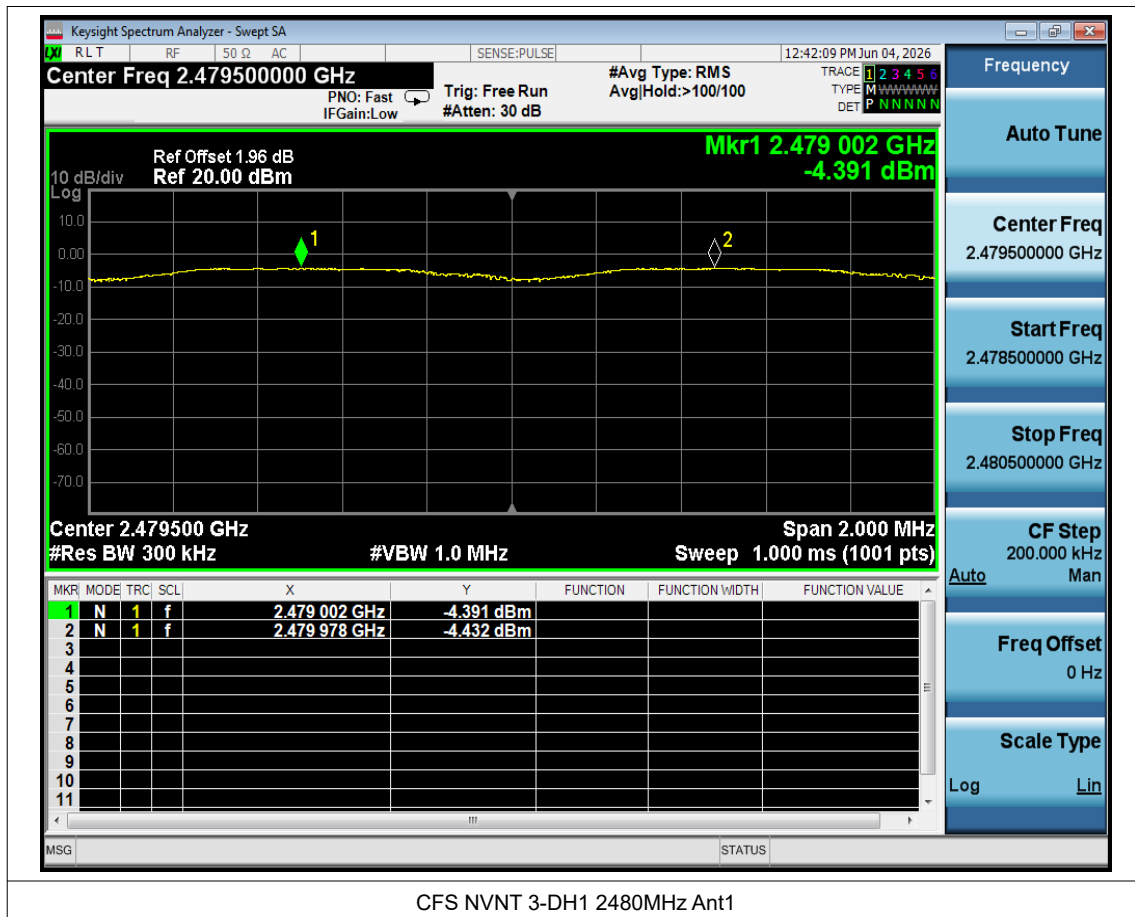
CFS NVNT 2-DH1 2480MHz Ant1



CFS NVNT 3-DH1 2402MHz Ant1

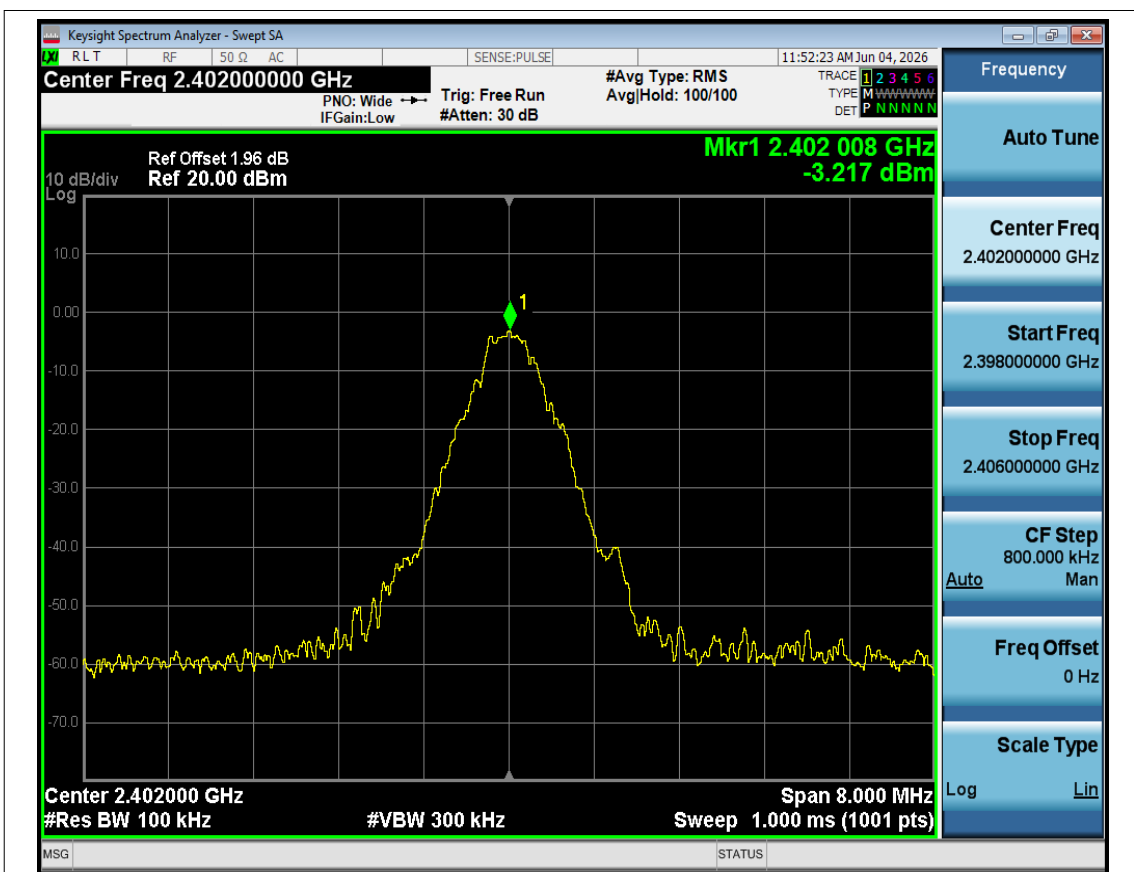


CFS NVNT 3-DH1 2441MHz Ant1

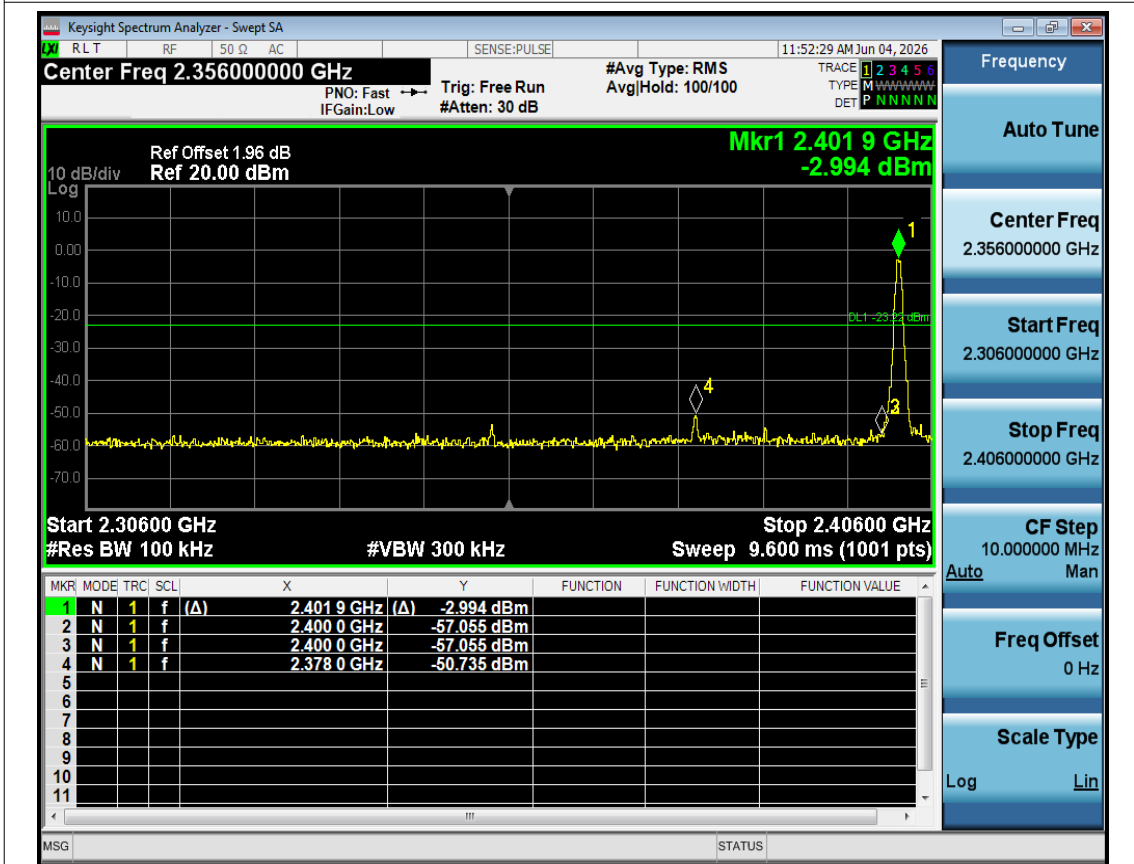


Band Edge

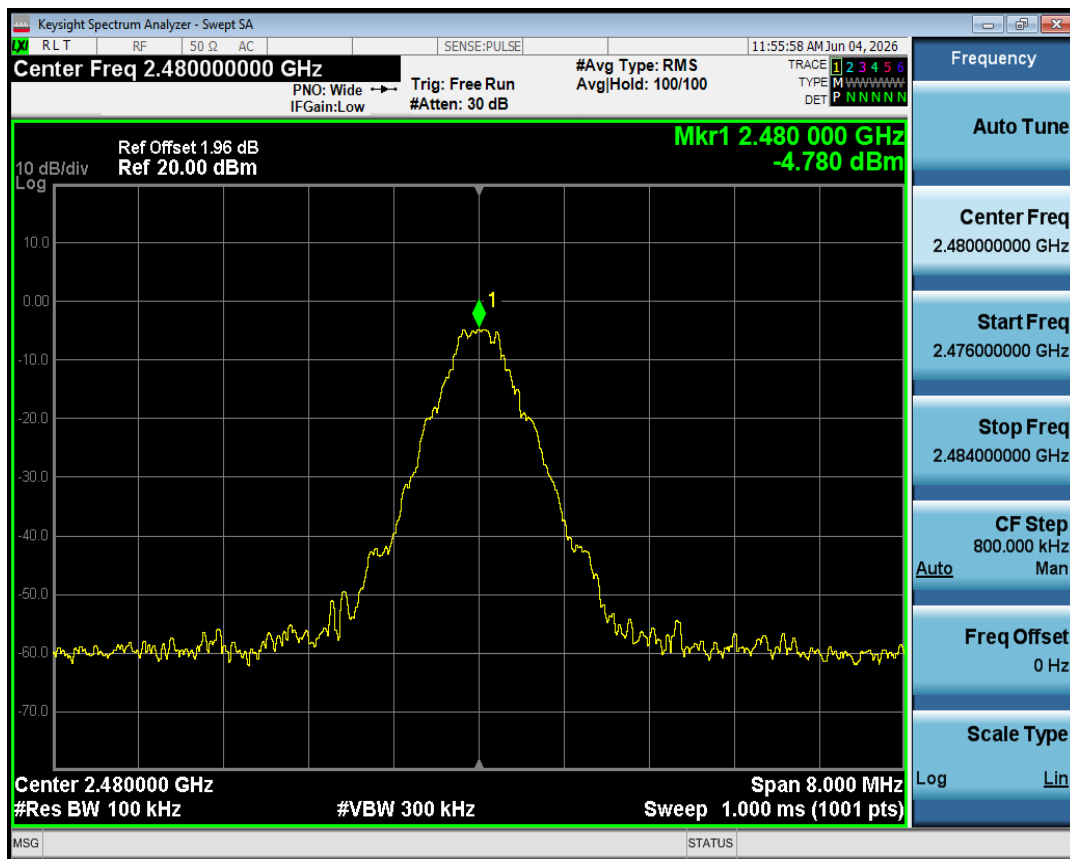
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-47.51	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-50.96	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-48.72	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-50.62	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-48.38	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-51.17	-20	Pass



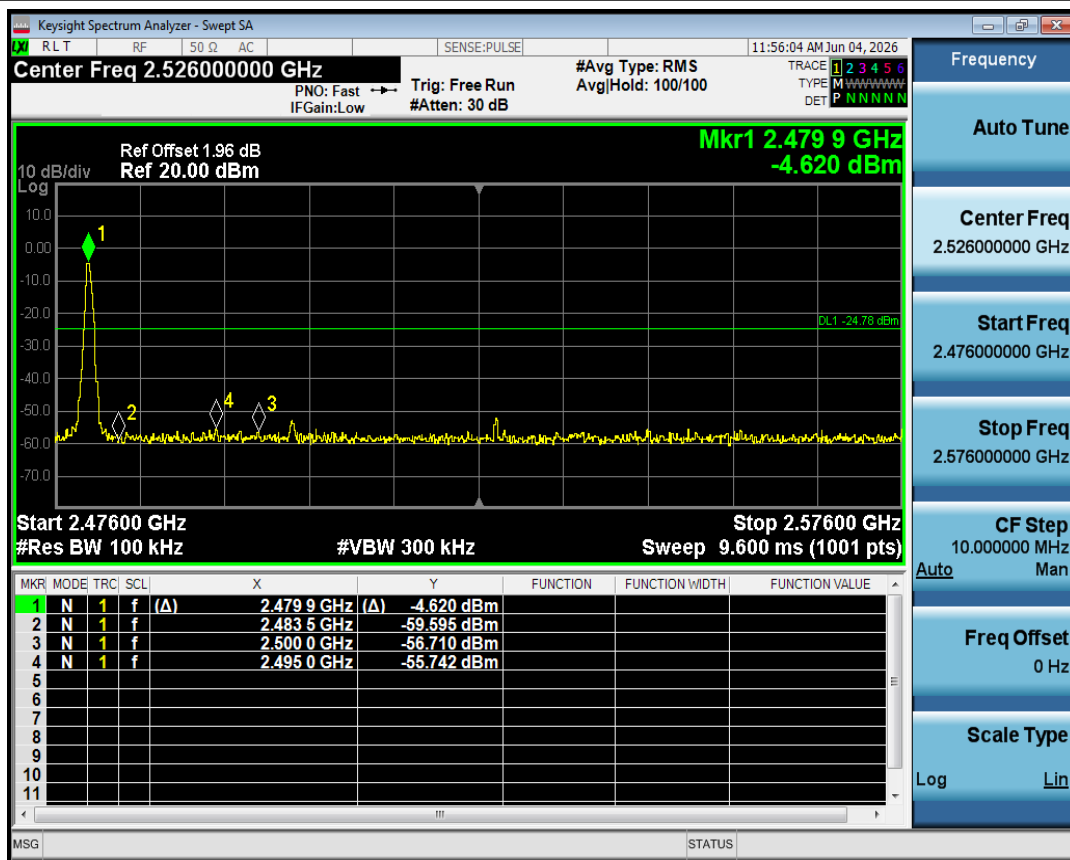
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



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



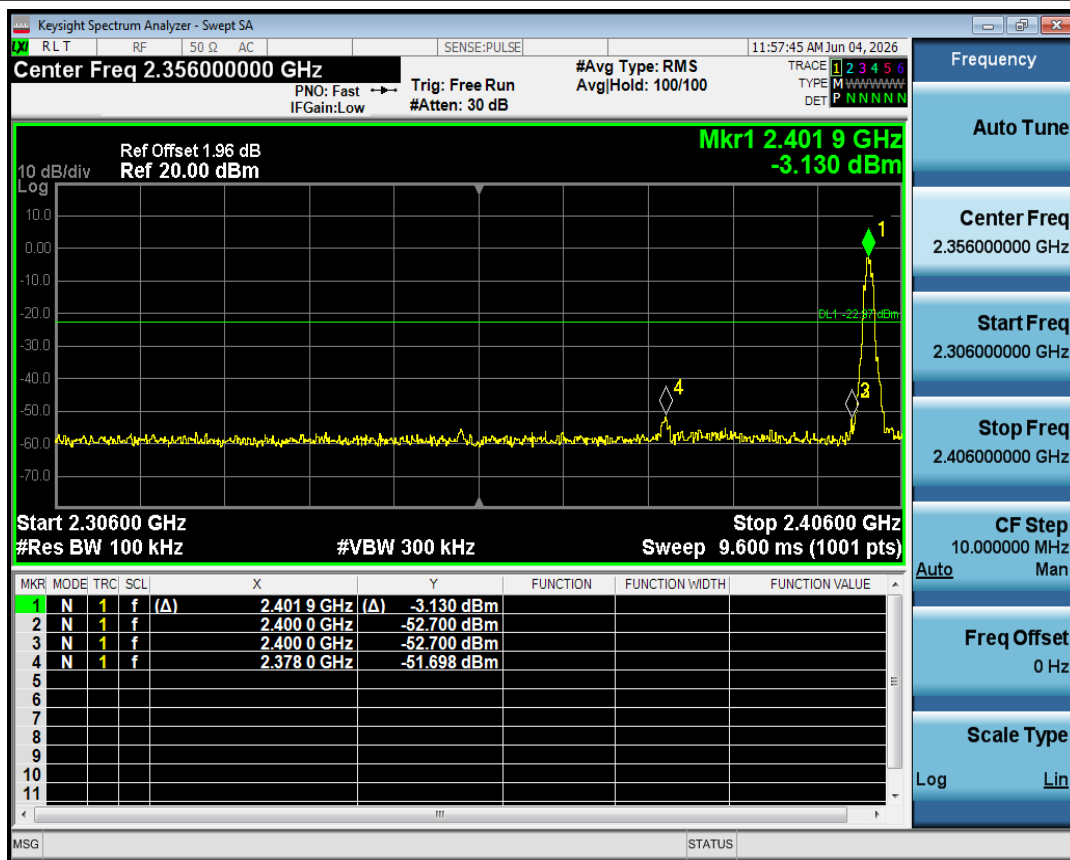
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



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



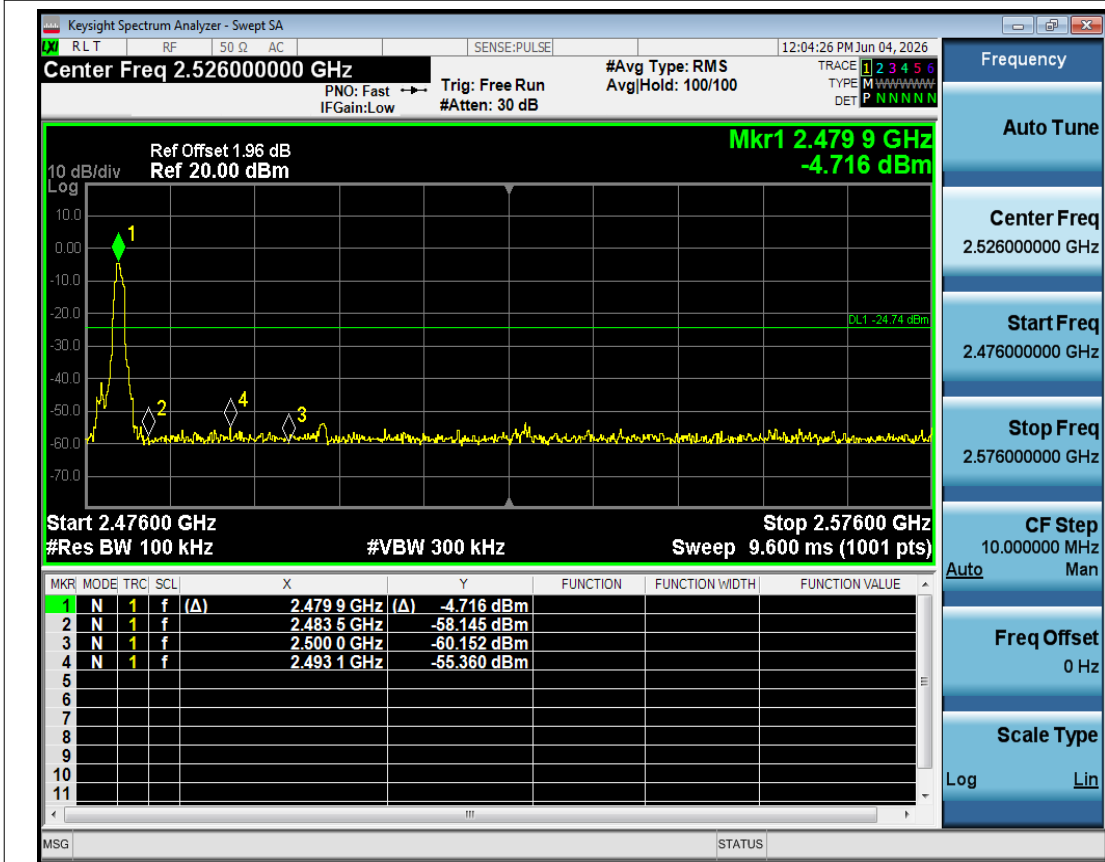
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



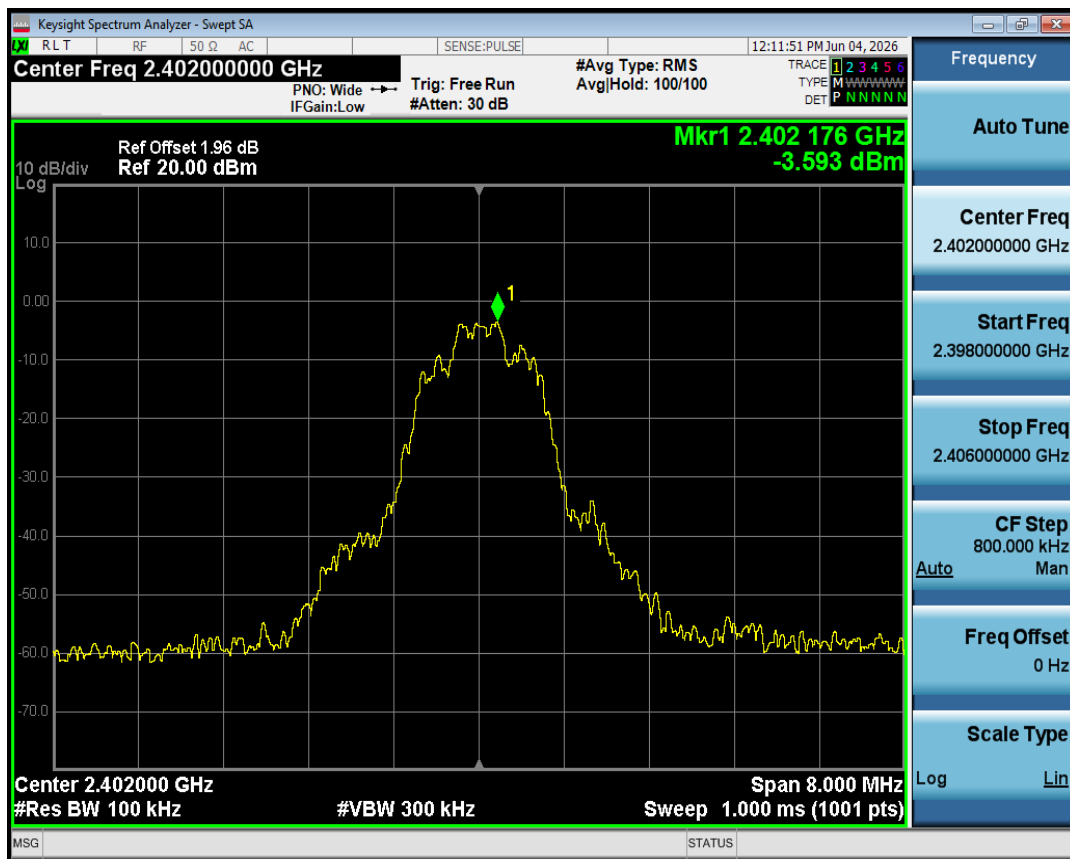
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



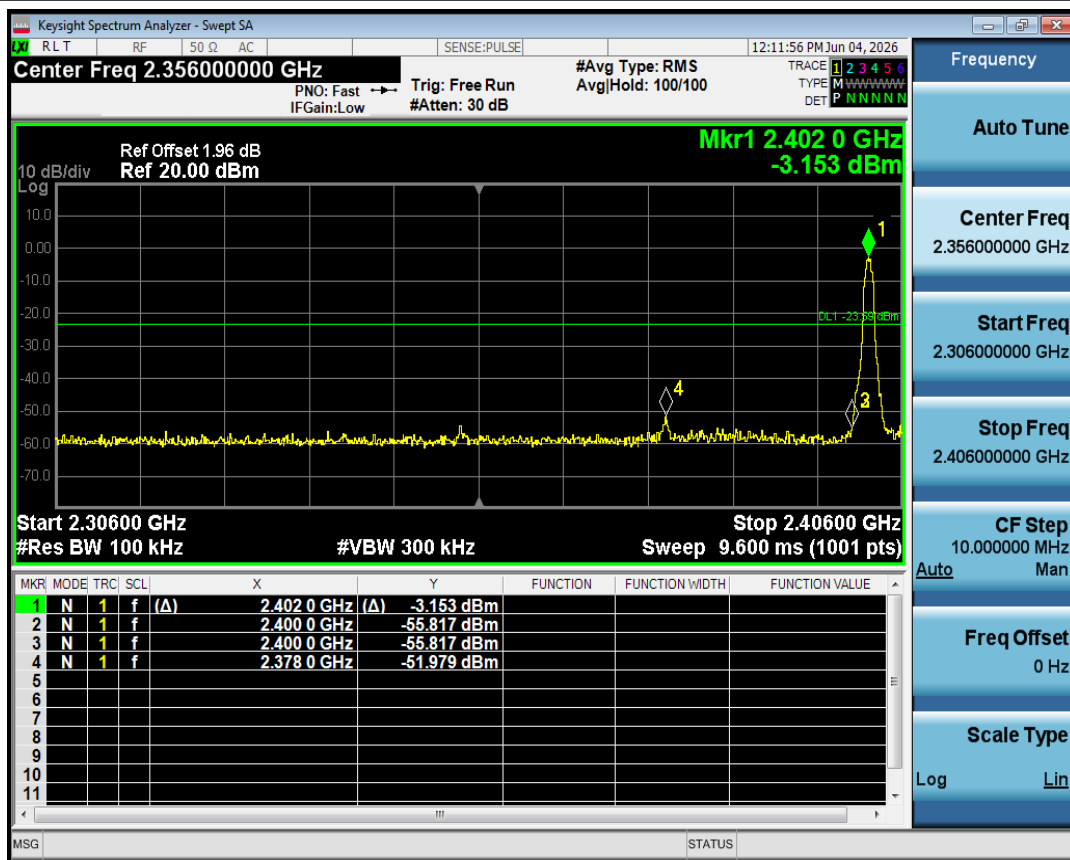
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



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



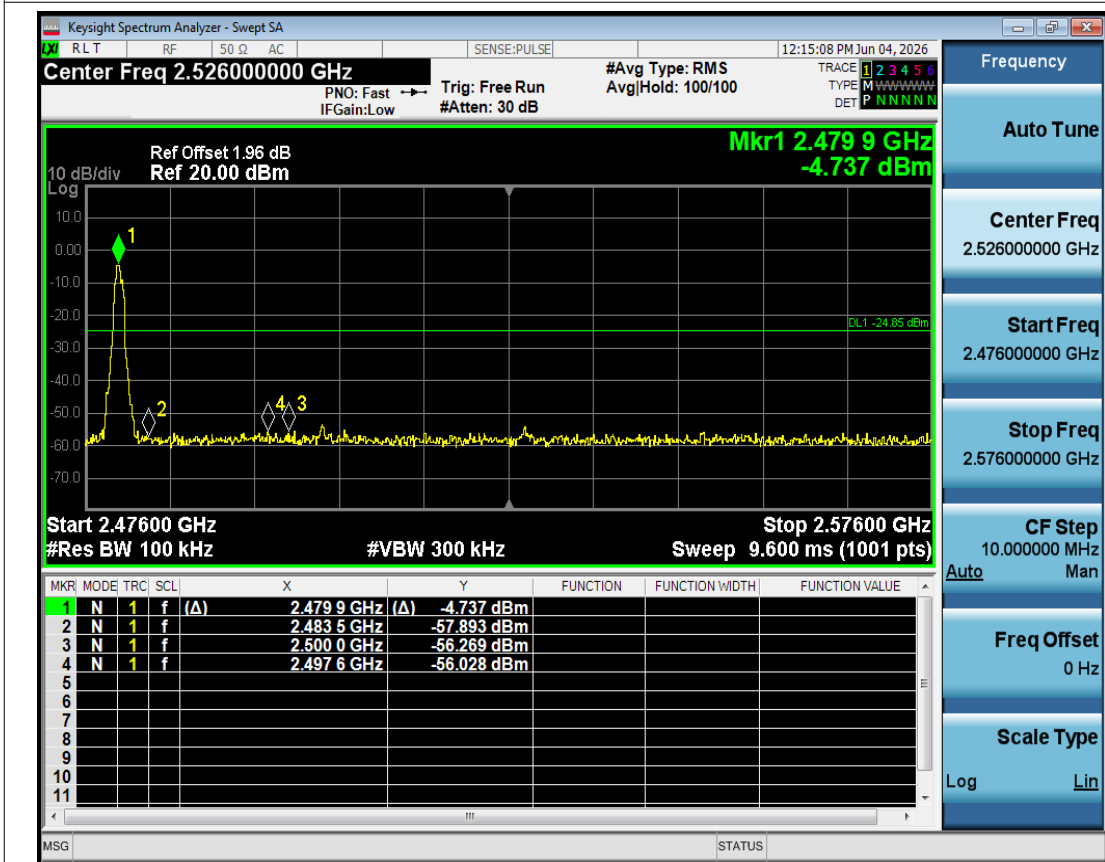
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



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



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



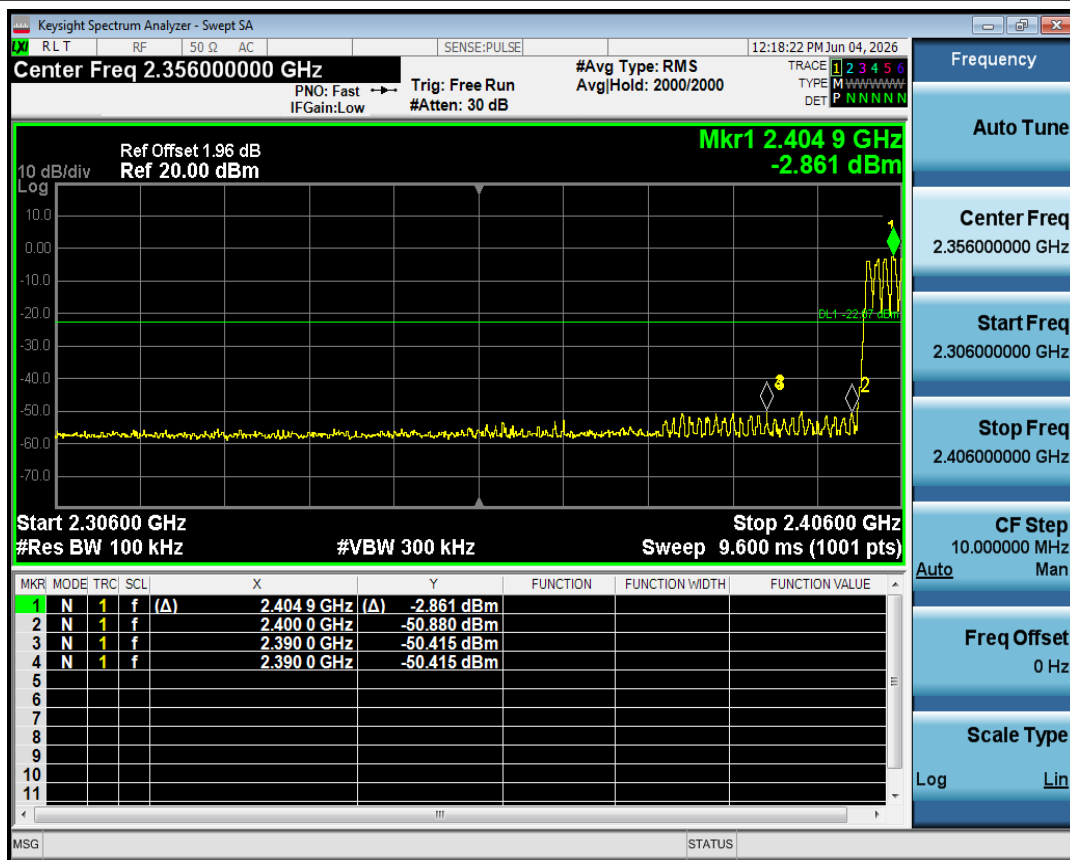
Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission

Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-47.54	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-45.53	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-48.6	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-47.54	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-47.99	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-48.46	-20	Pass



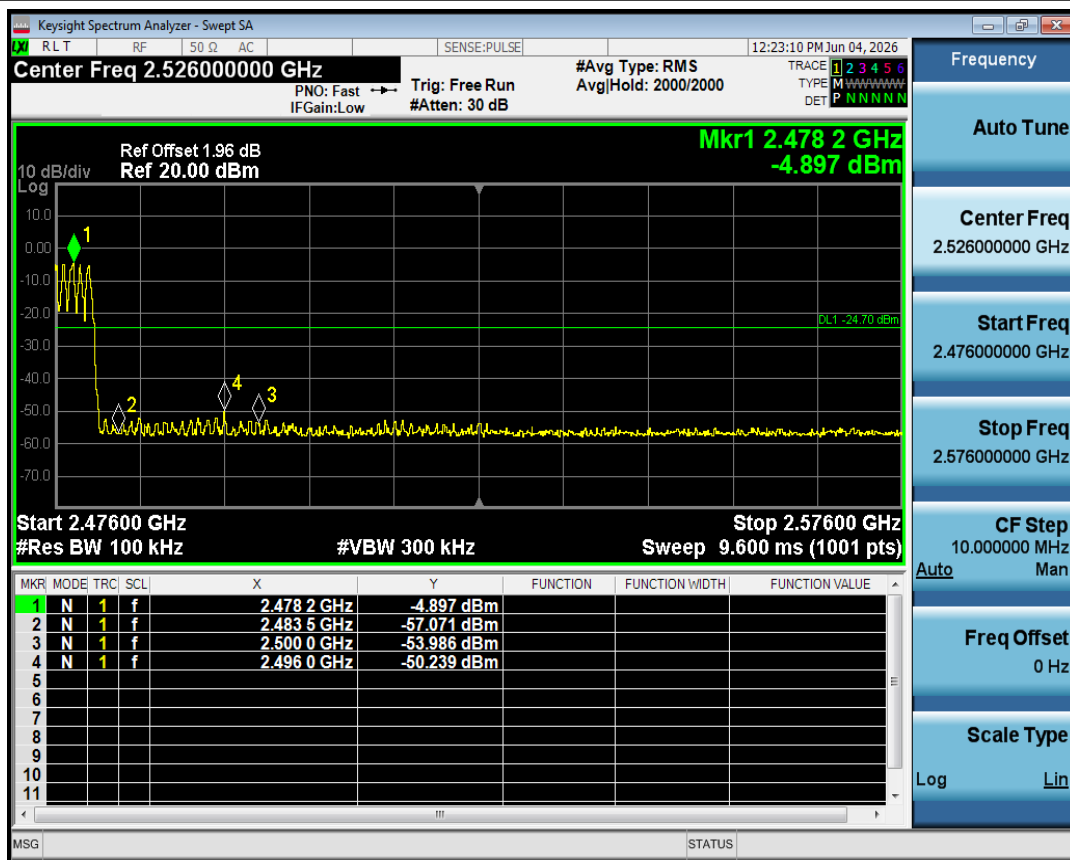
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



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



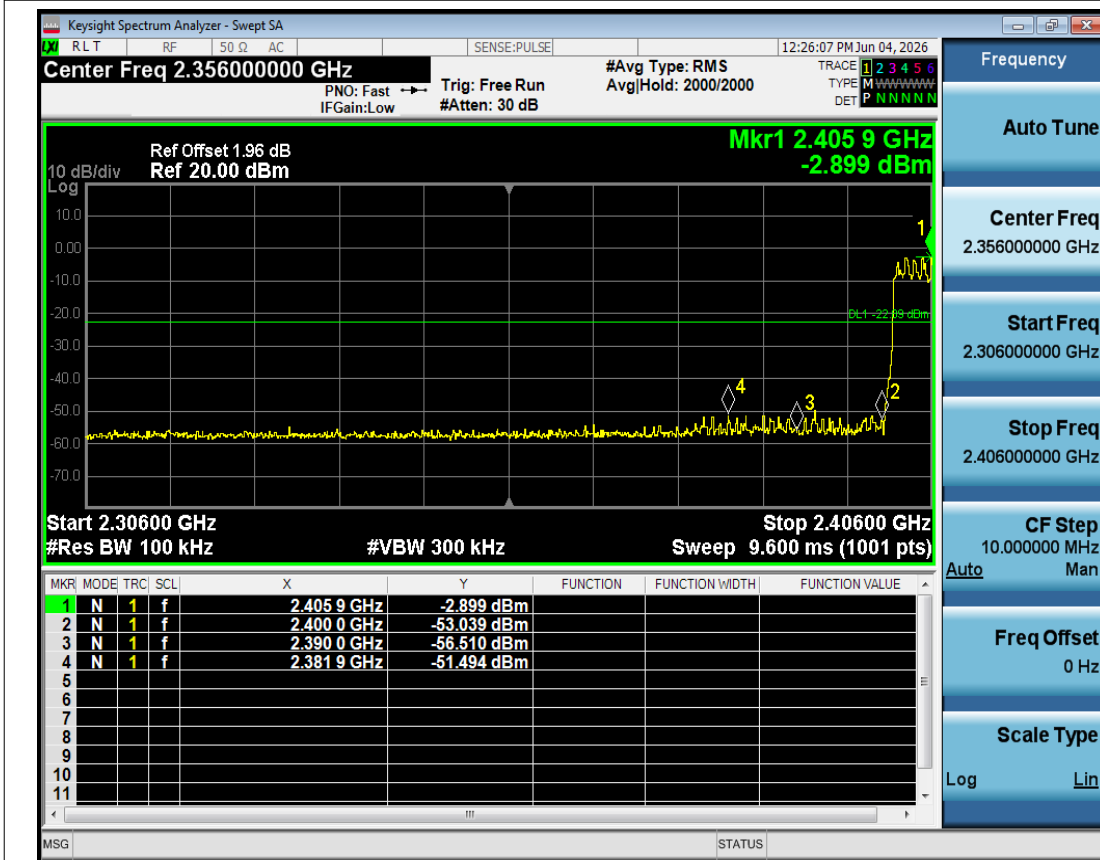
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



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



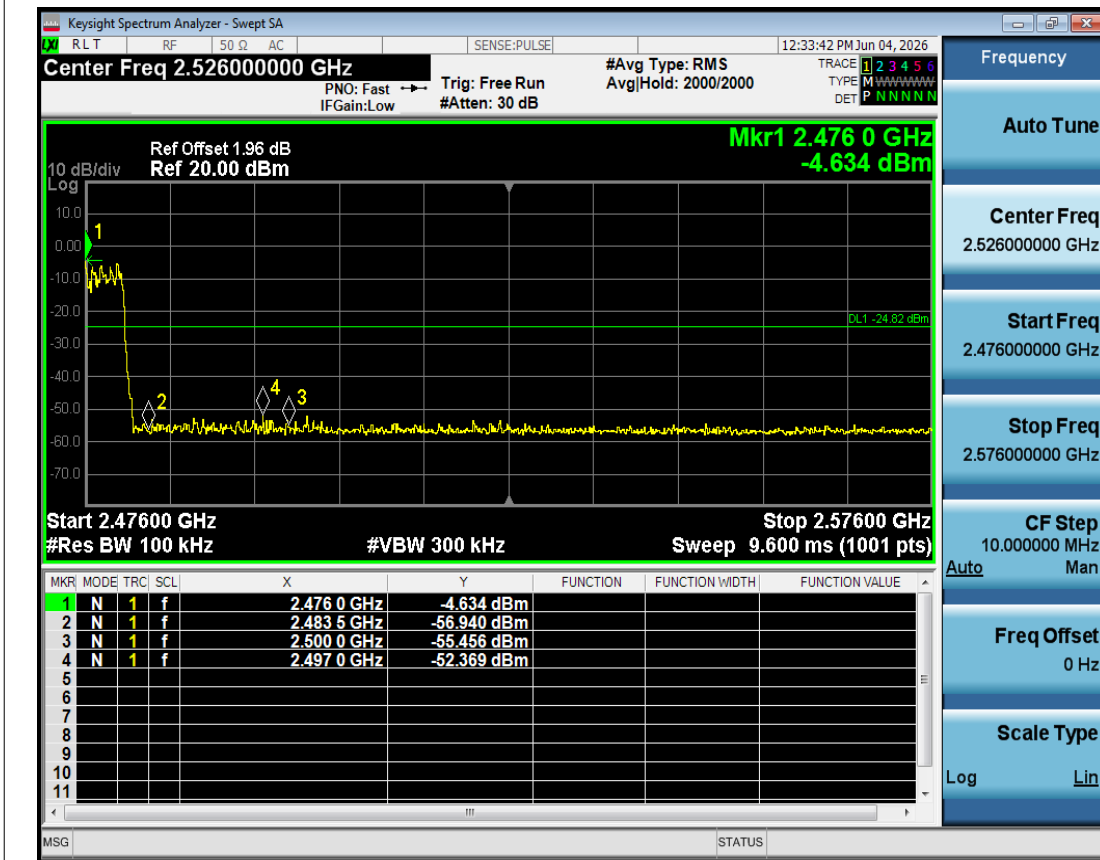
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



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



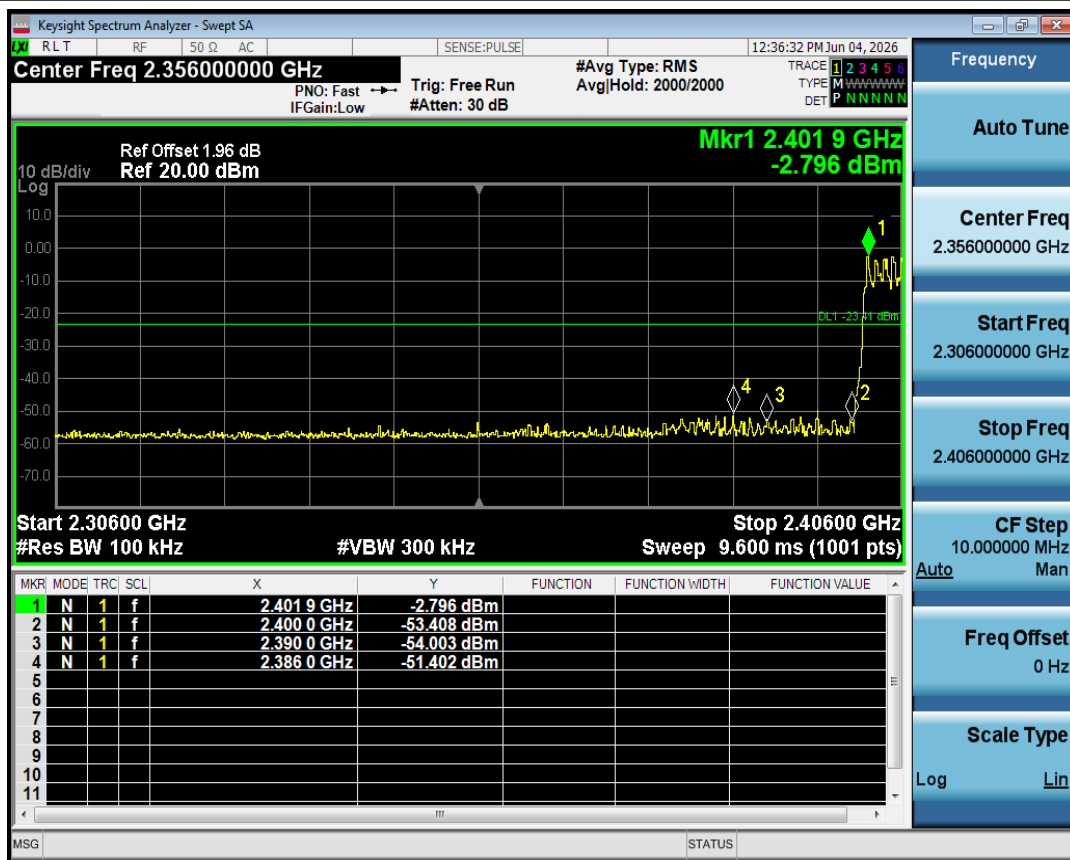
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



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



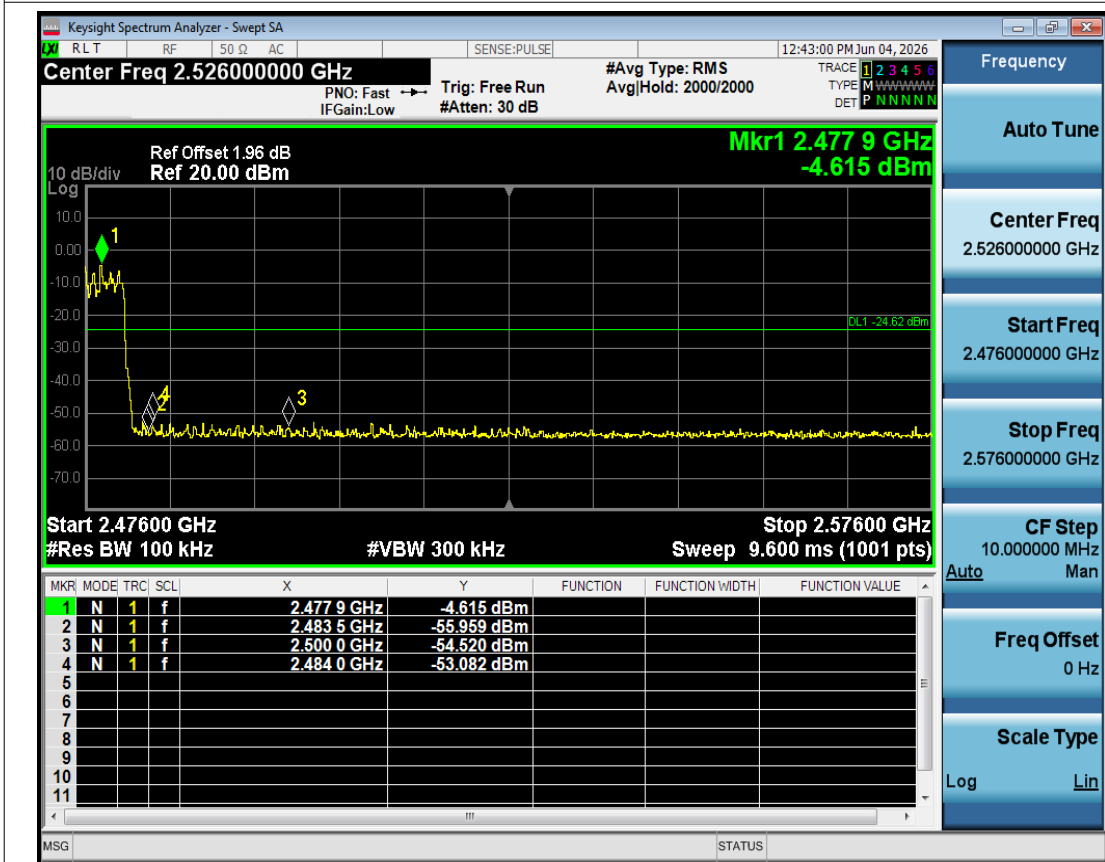
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



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



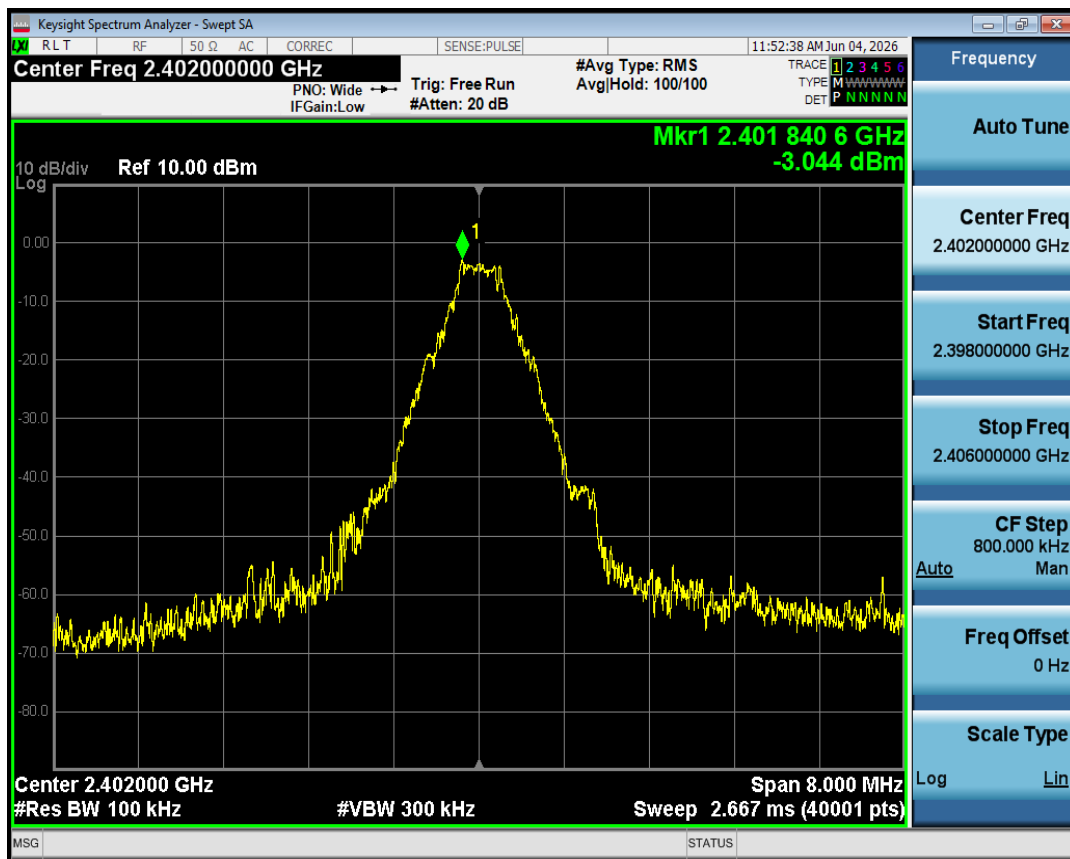
Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Ref



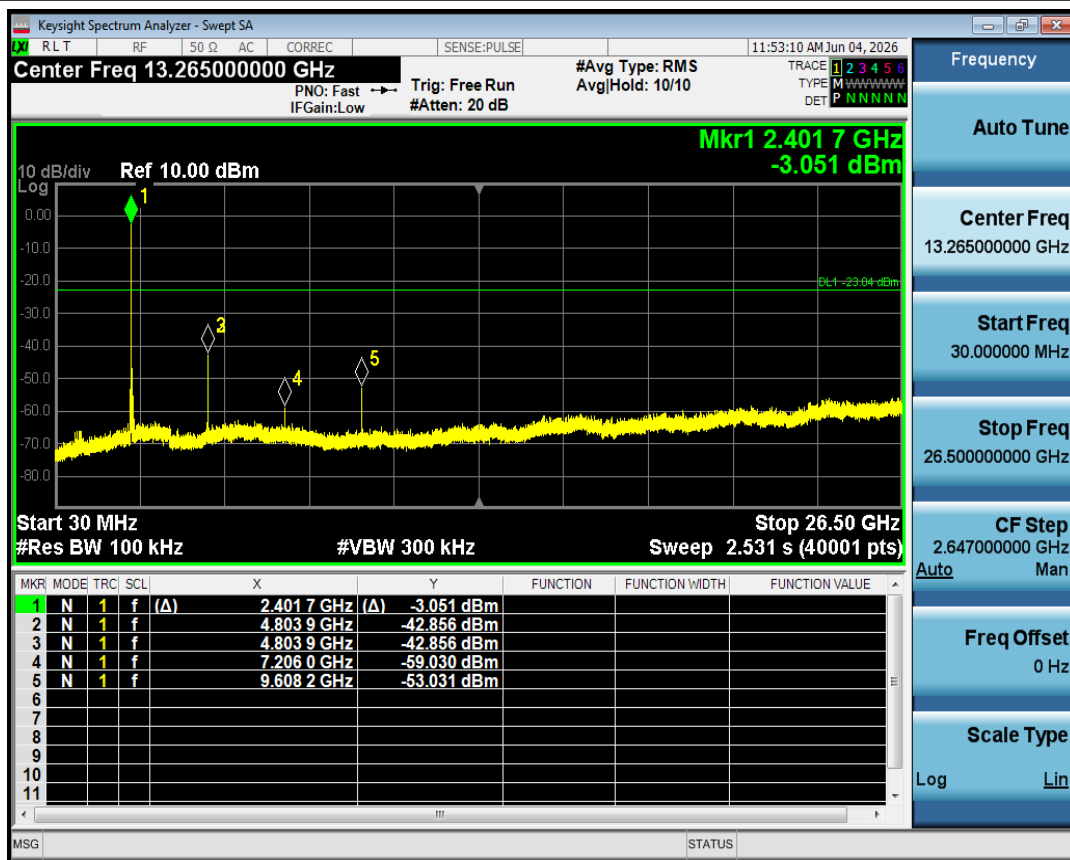
Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Emission

Conducted RF Spurious Emission

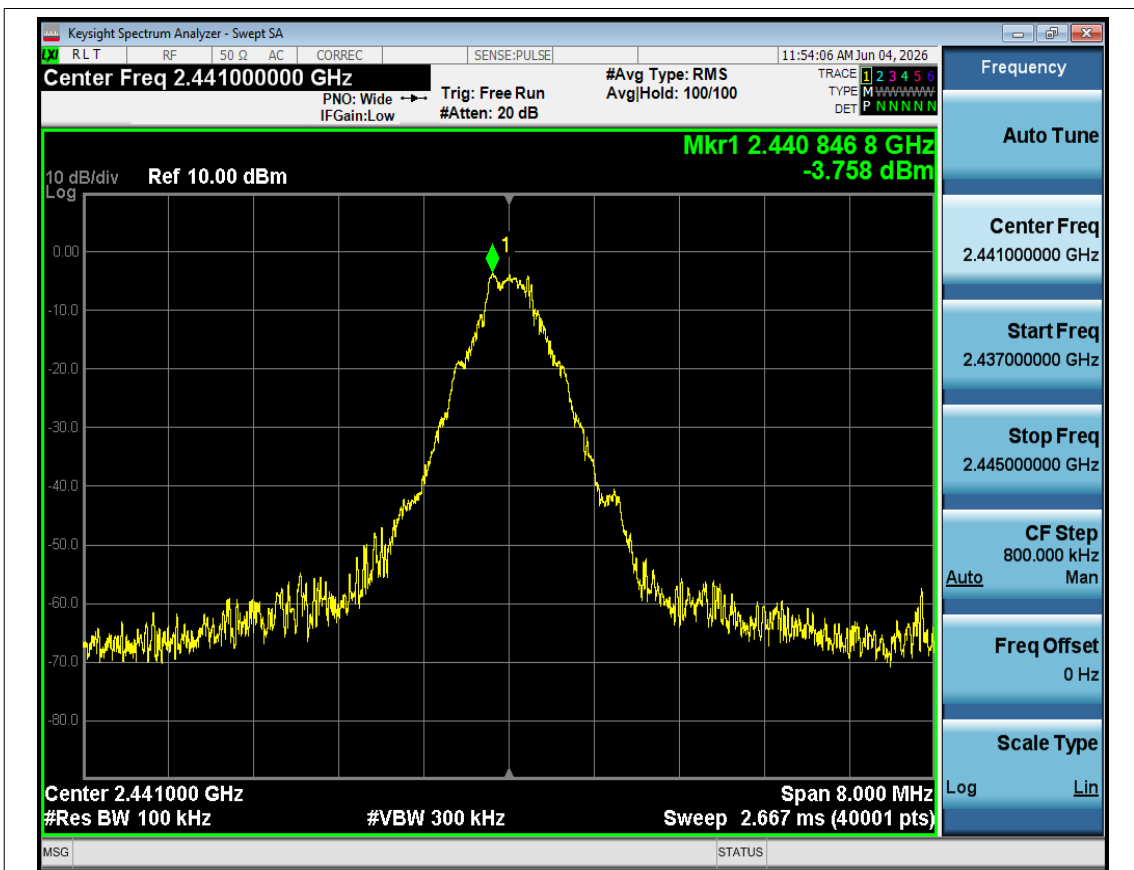
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-39.81	-20	Pass
NVNT	1-DH1	2441	Ant1	-38.43	-20	Pass
NVNT	1-DH1	2480	Ant1	-36.76	-20	Pass
NVNT	2-DH1	2402	Ant1	-49.4	-20	Pass
NVNT	2-DH1	2441	Ant1	-39.32	-20	Pass
NVNT	2-DH1	2480	Ant1	-39.83	-20	Pass
NVNT	3-DH1	2402	Ant1	-38.72	-20	Pass
NVNT	3-DH1	2441	Ant1	-38.31	-20	Pass
NVNT	3-DH1	2480	Ant1	-40.06	-20	Pass



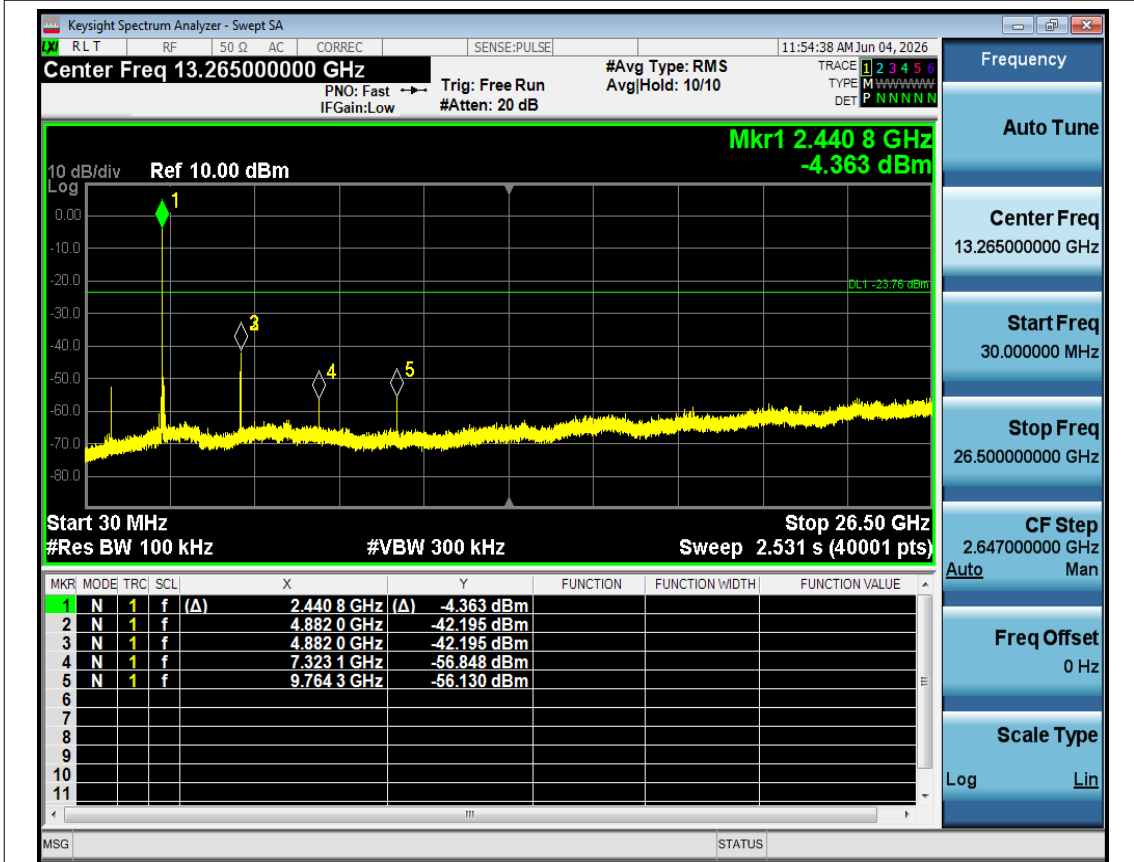
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



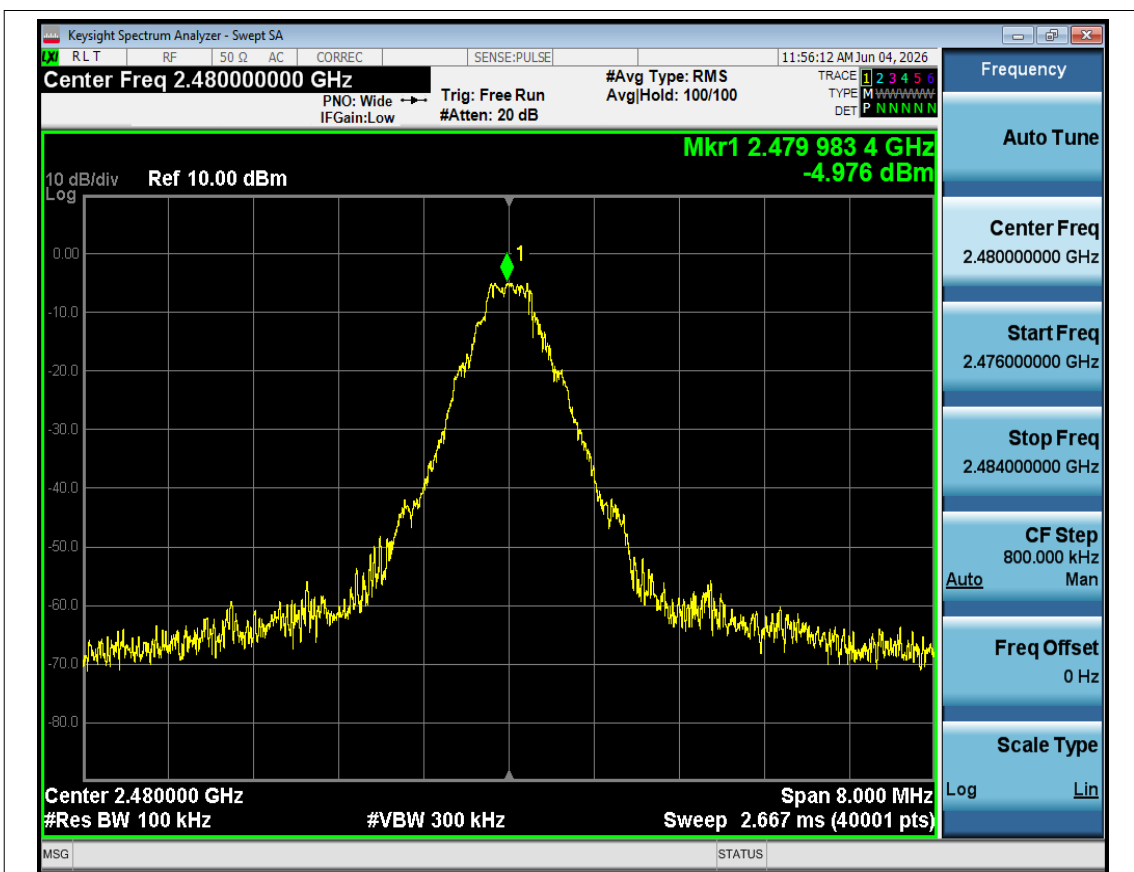
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



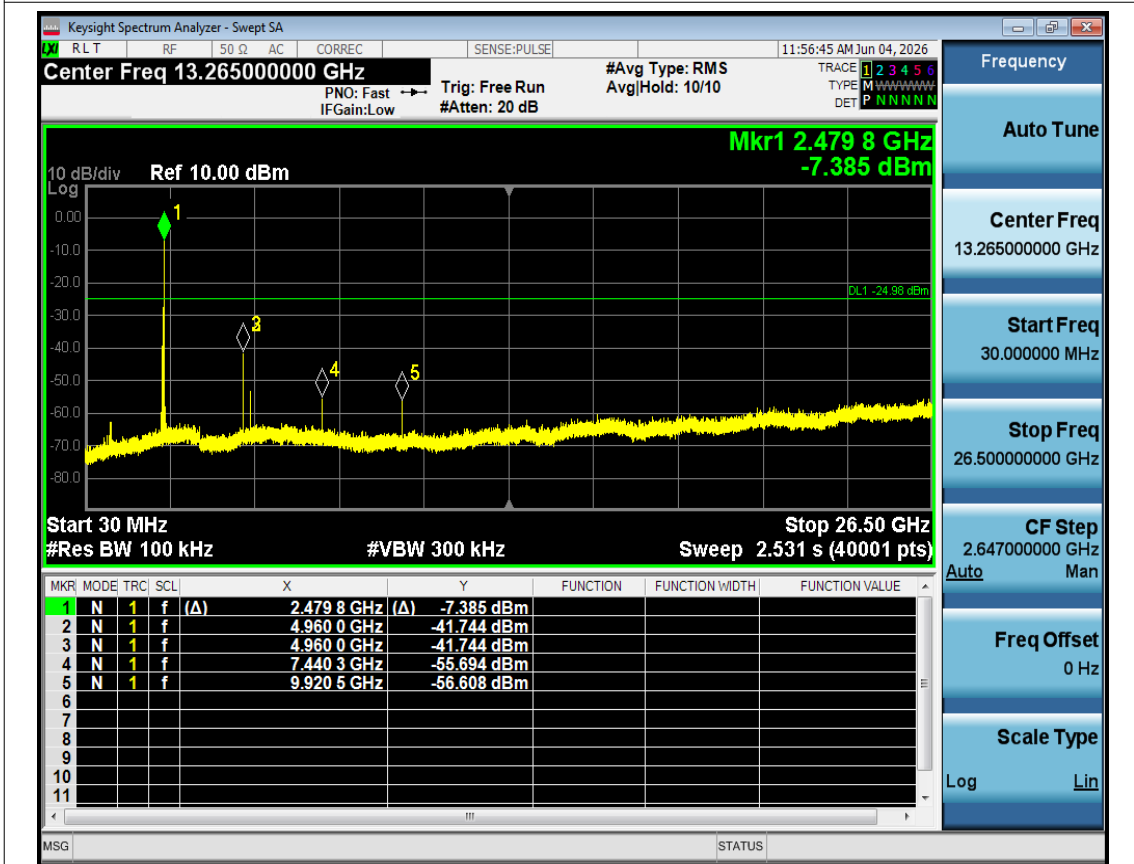
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



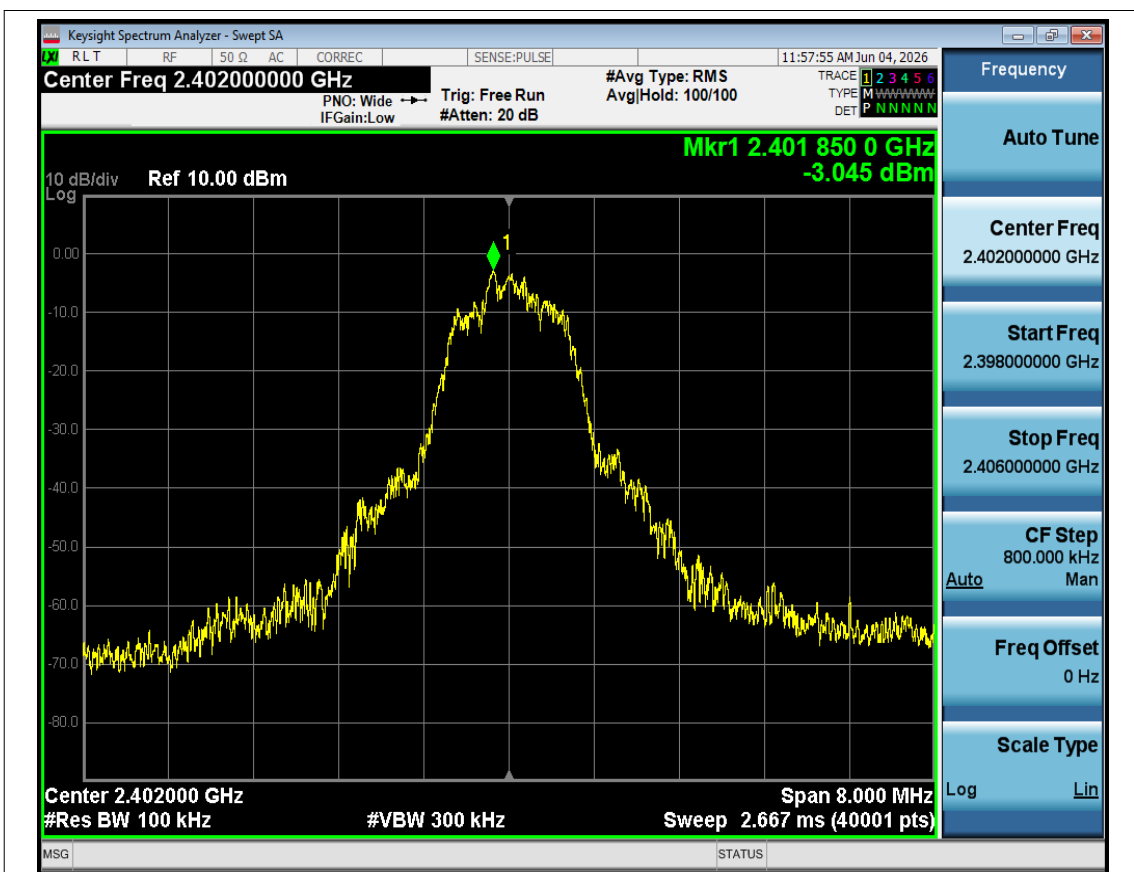
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



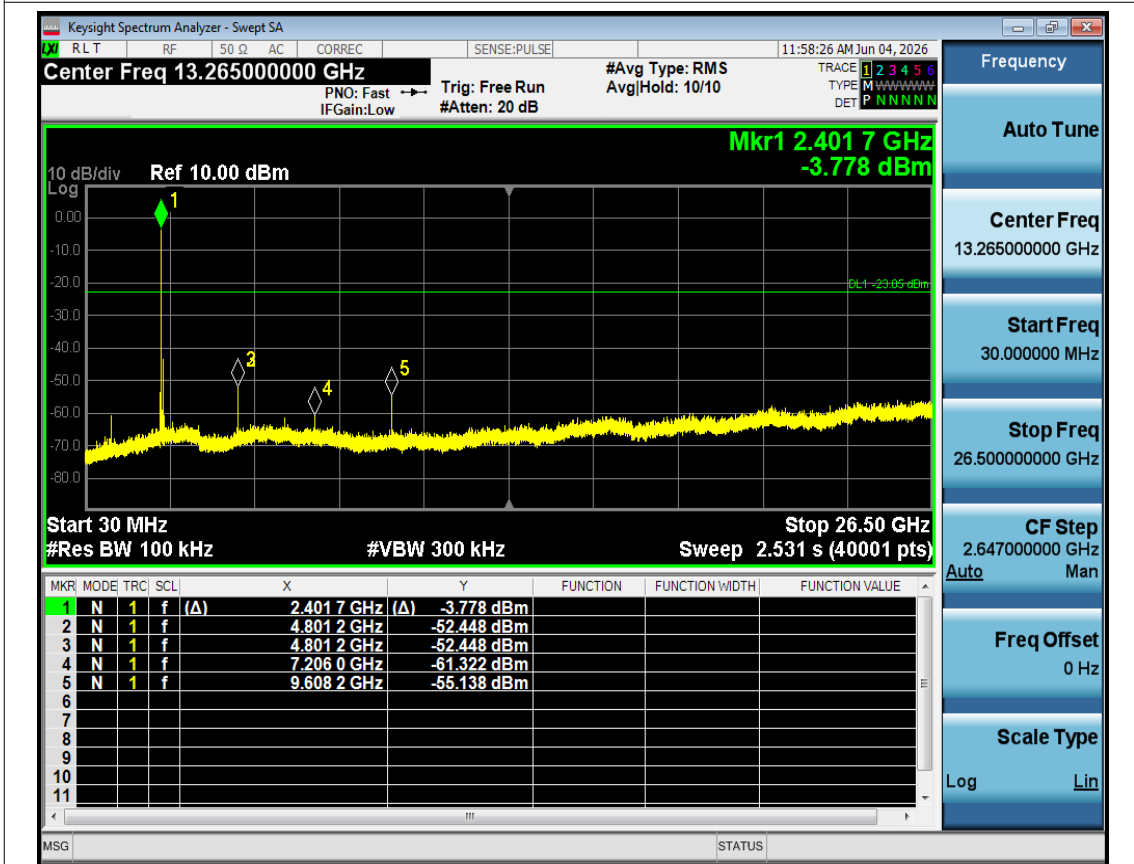
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



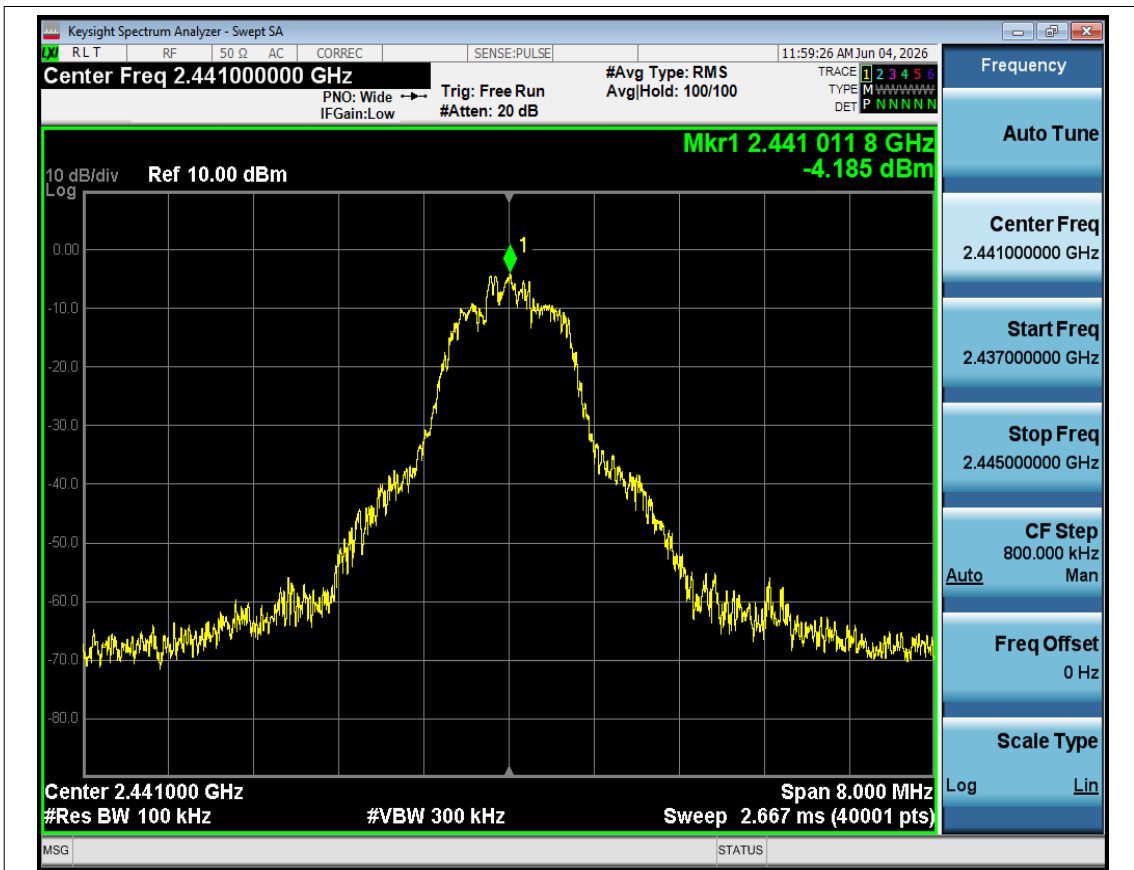
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



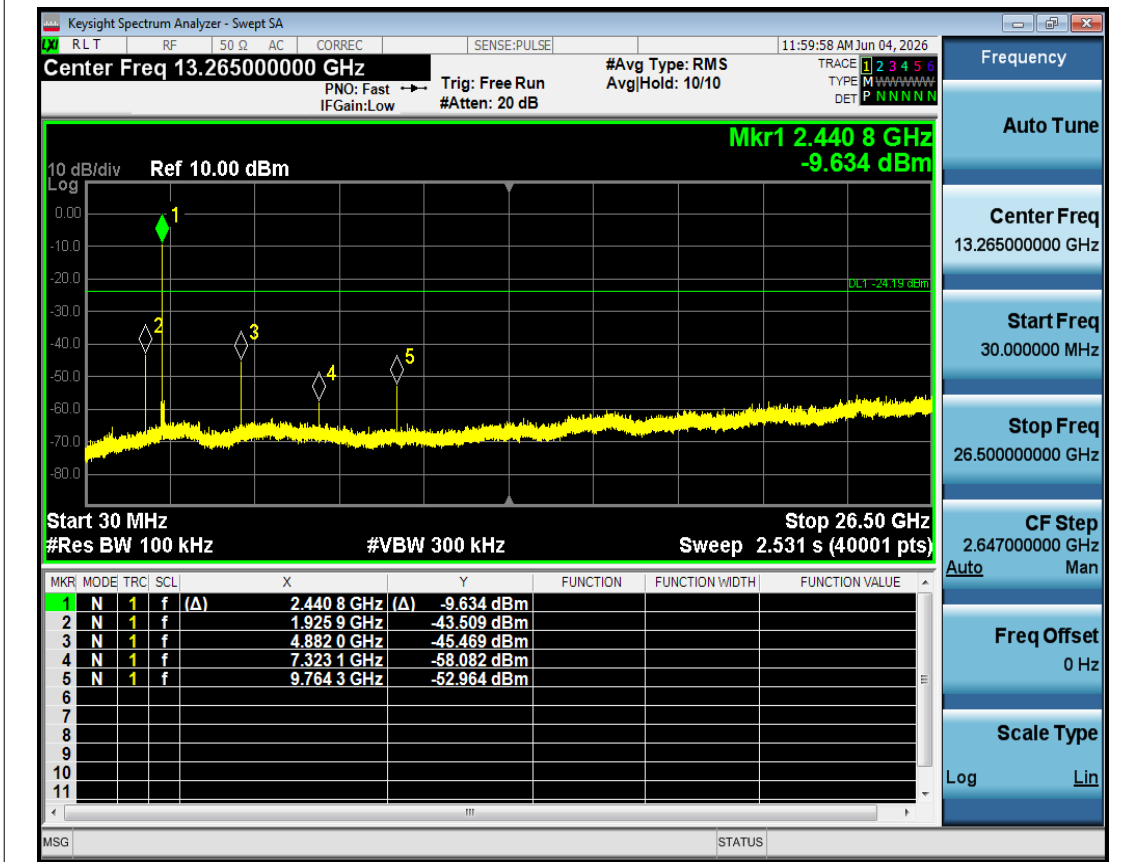
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



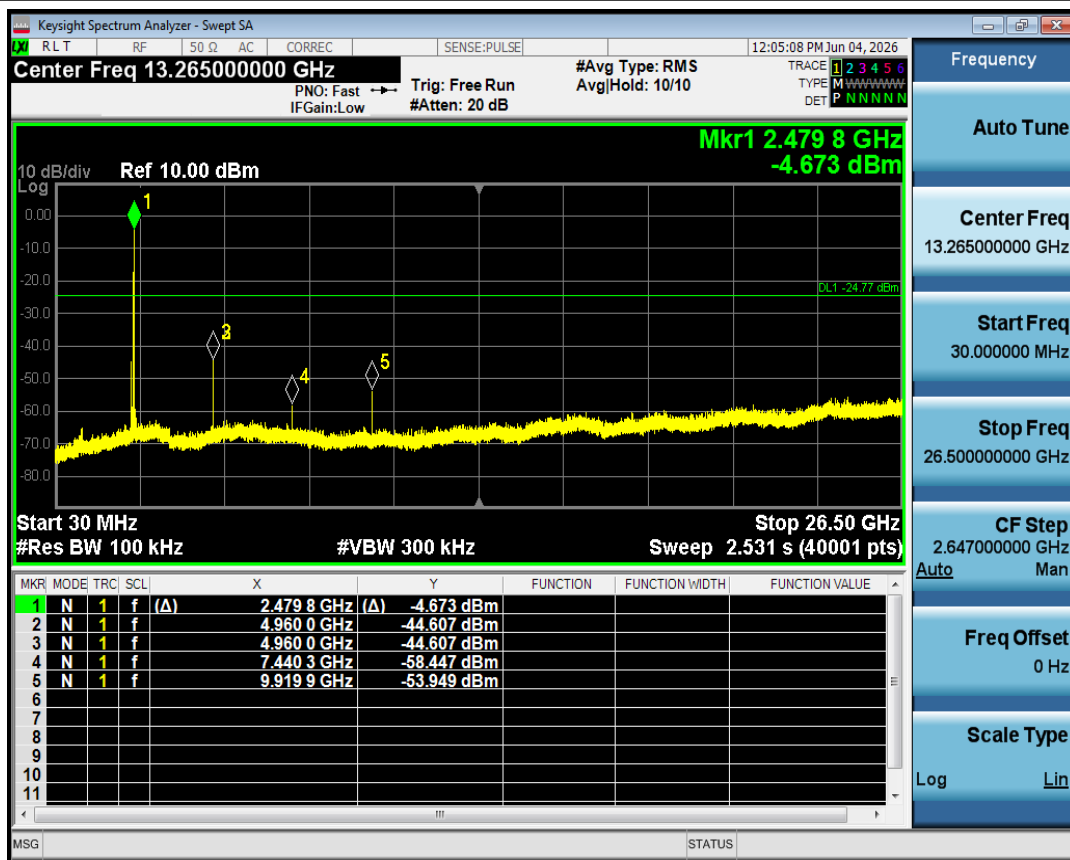
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



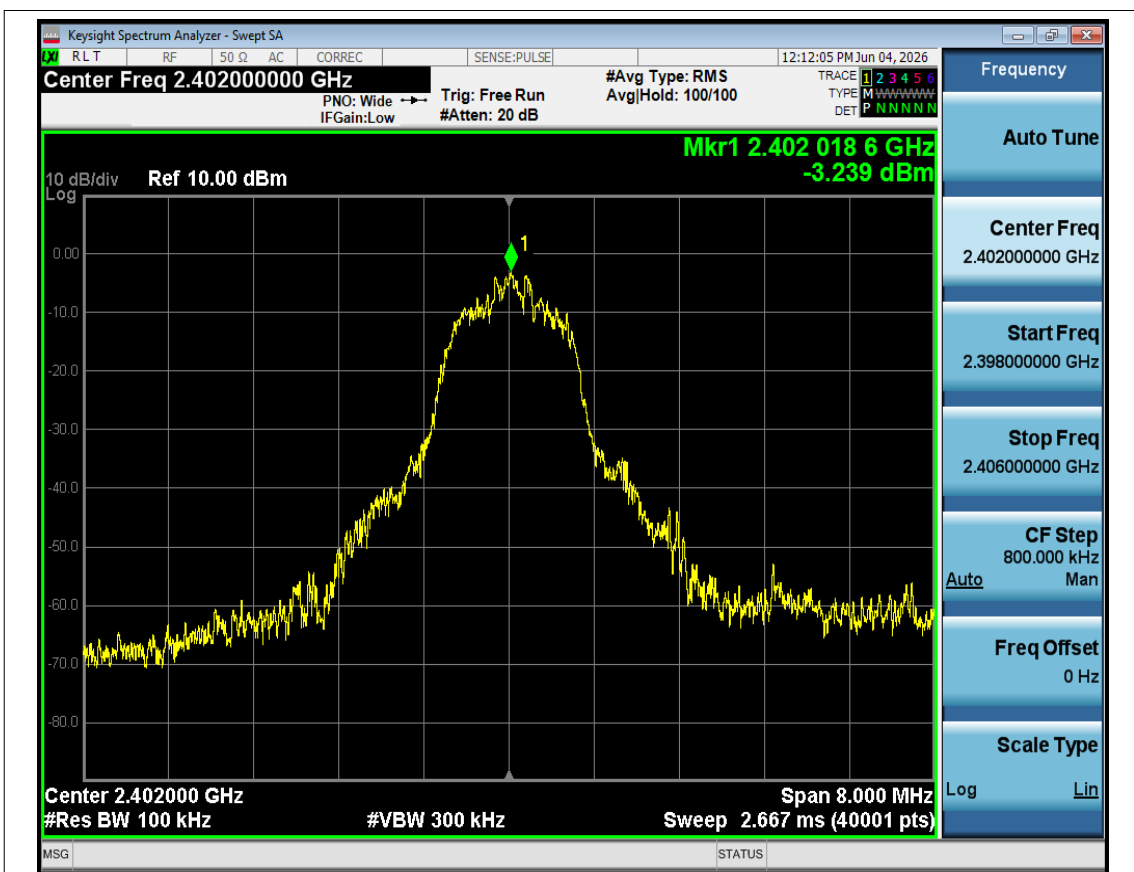
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



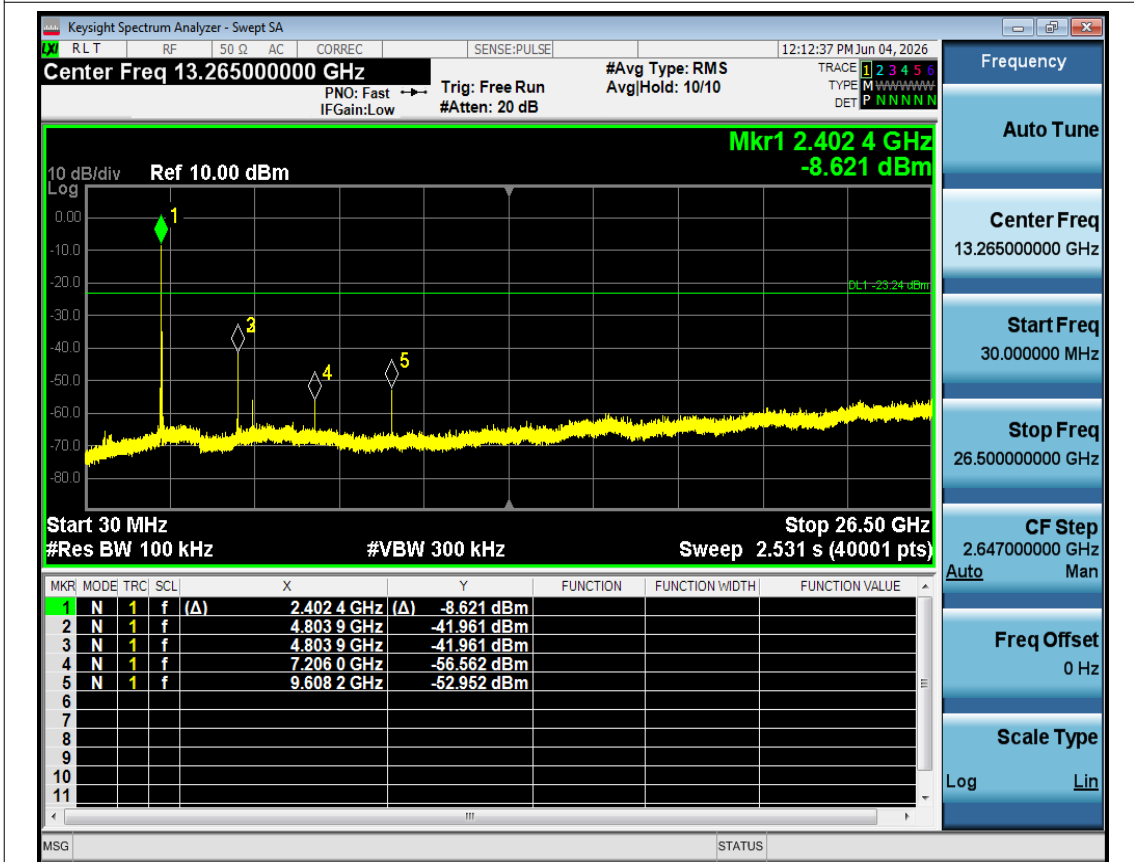
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



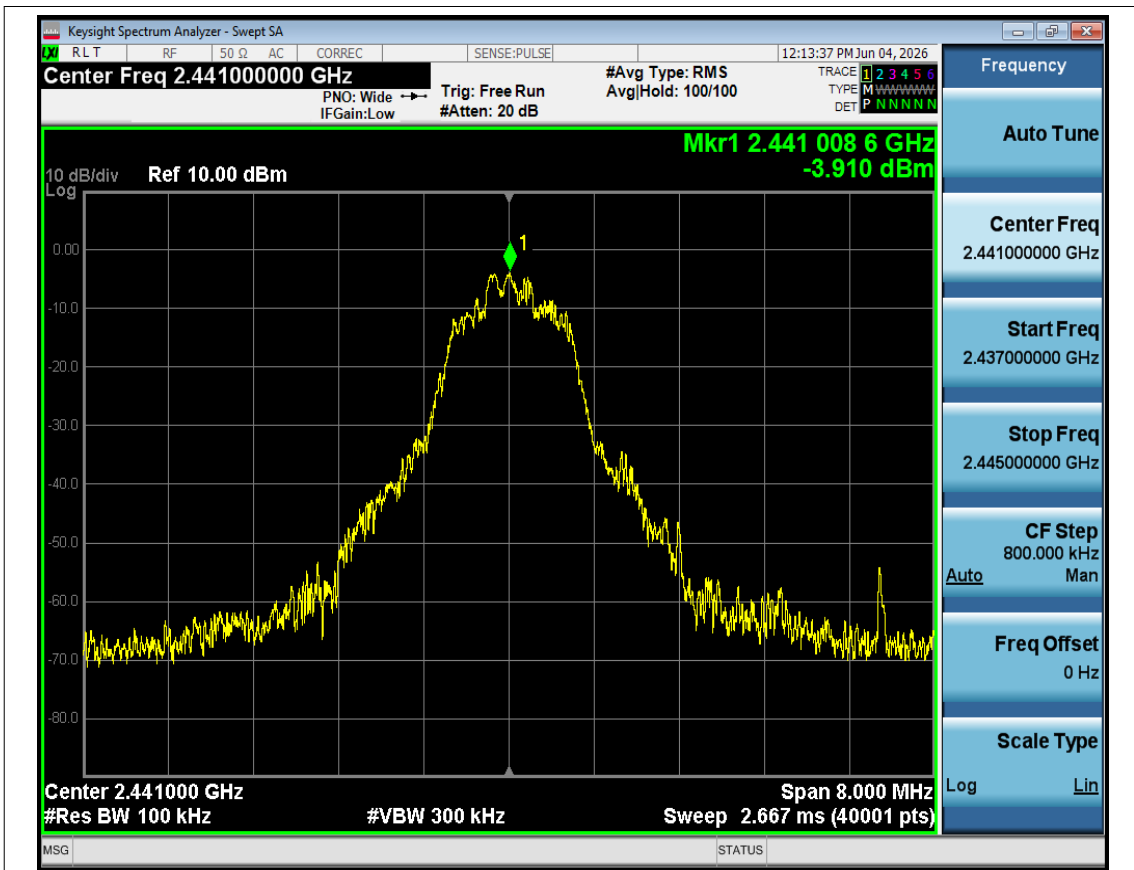
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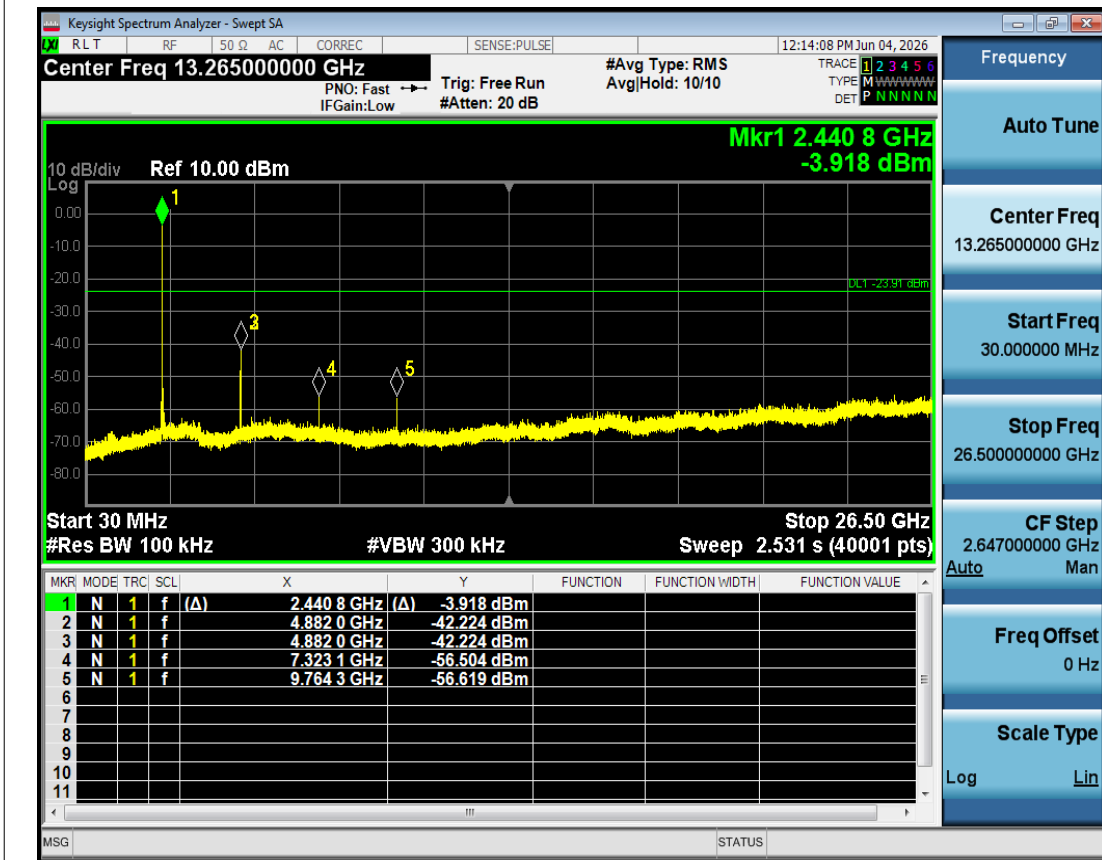
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



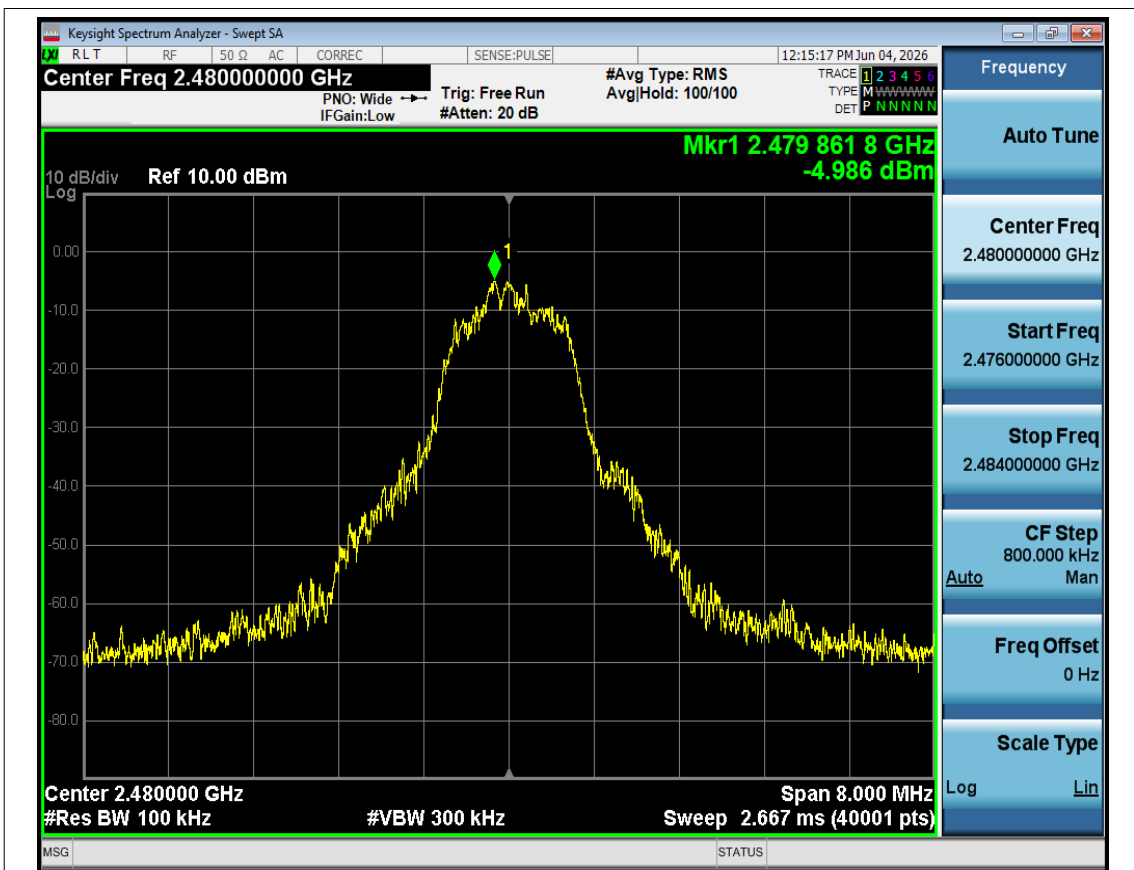
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



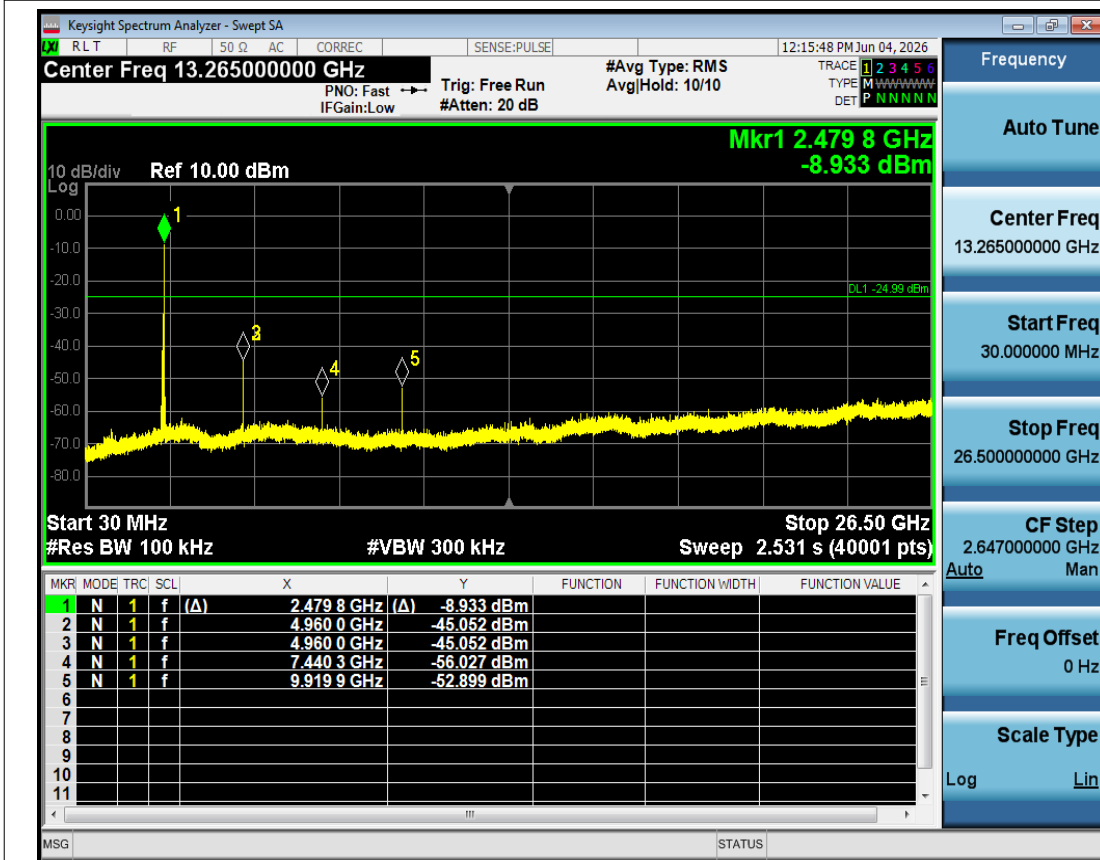
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



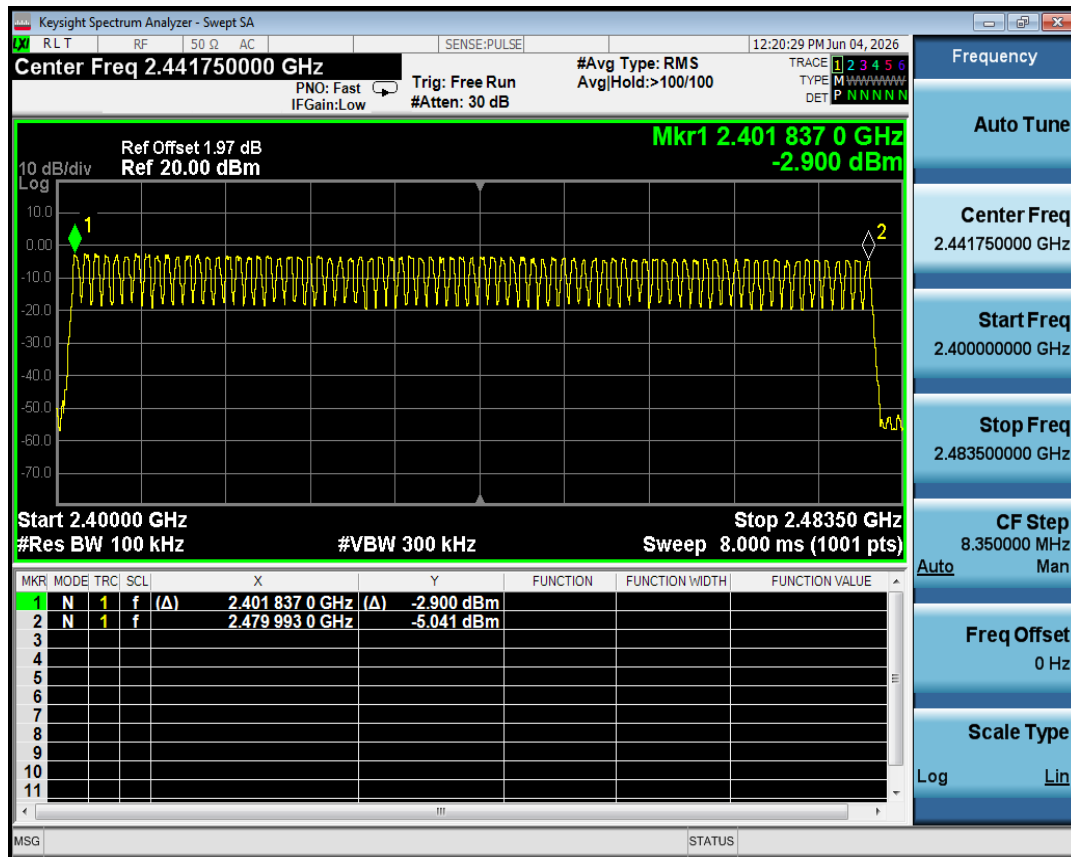
Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



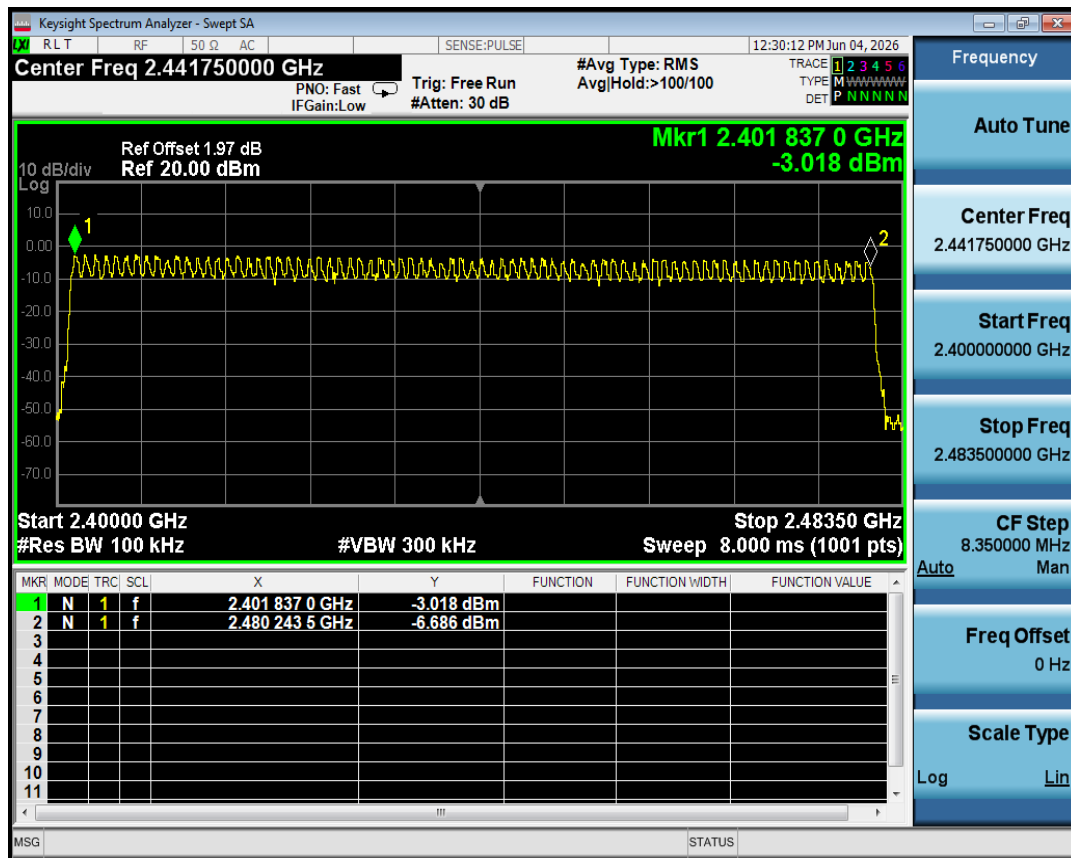
Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

Number of Hopping Channel

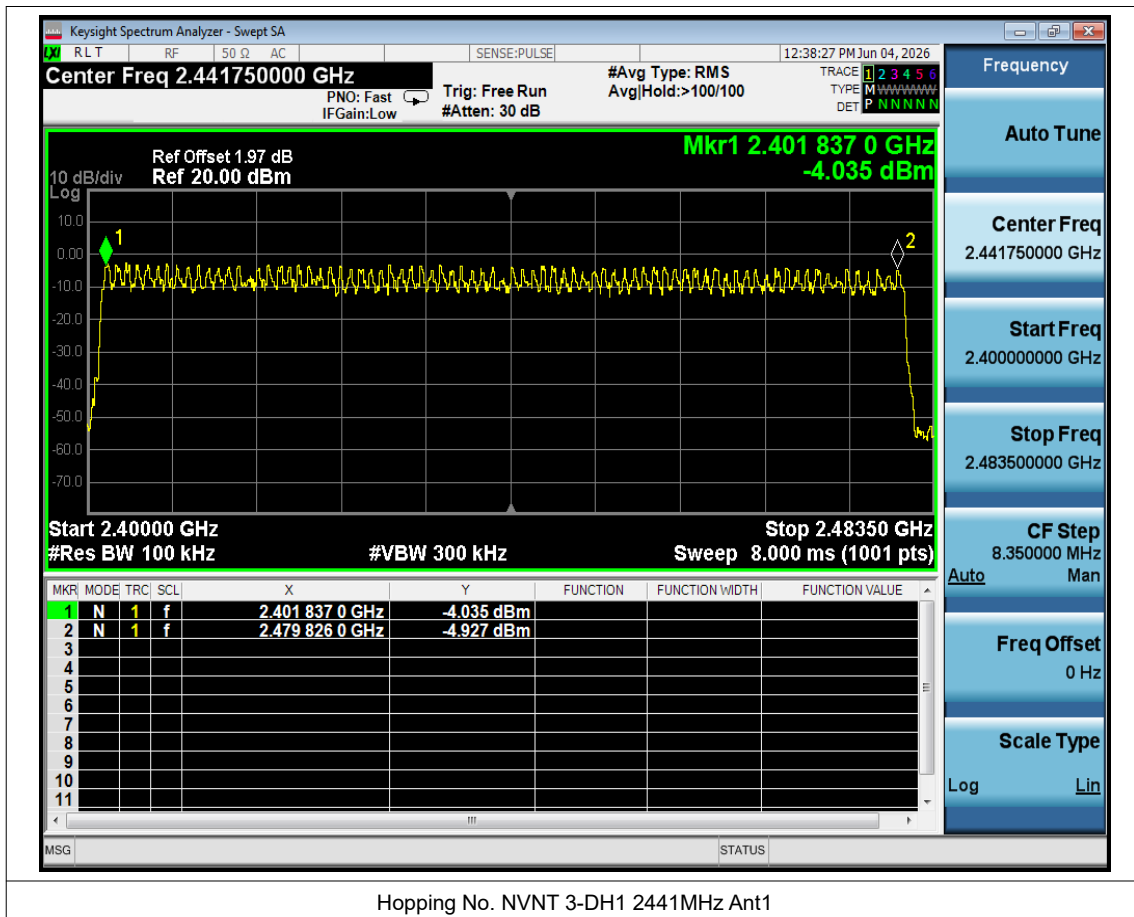
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass



Hopping No. NVNT 1-DH1 2441MHz Ant1

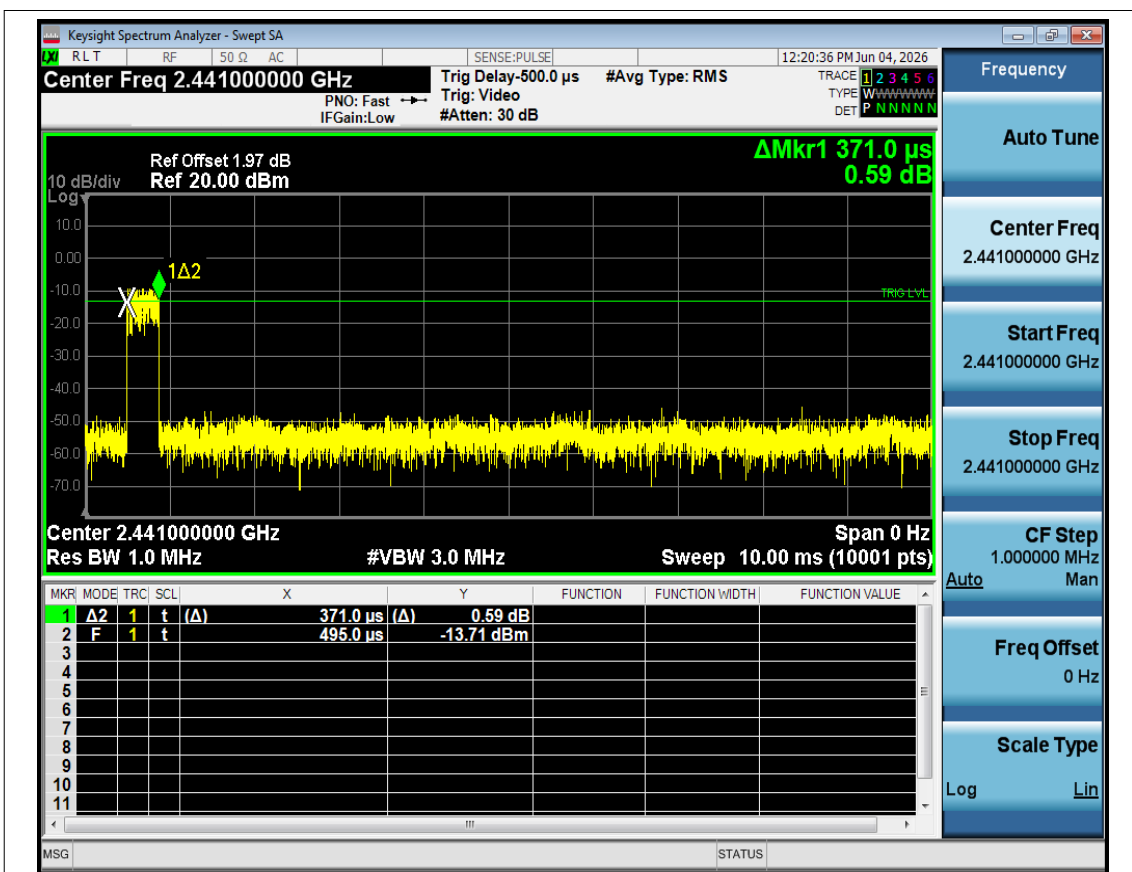


Hopping No. NVNT 2-DH1 2441MHz Ant1

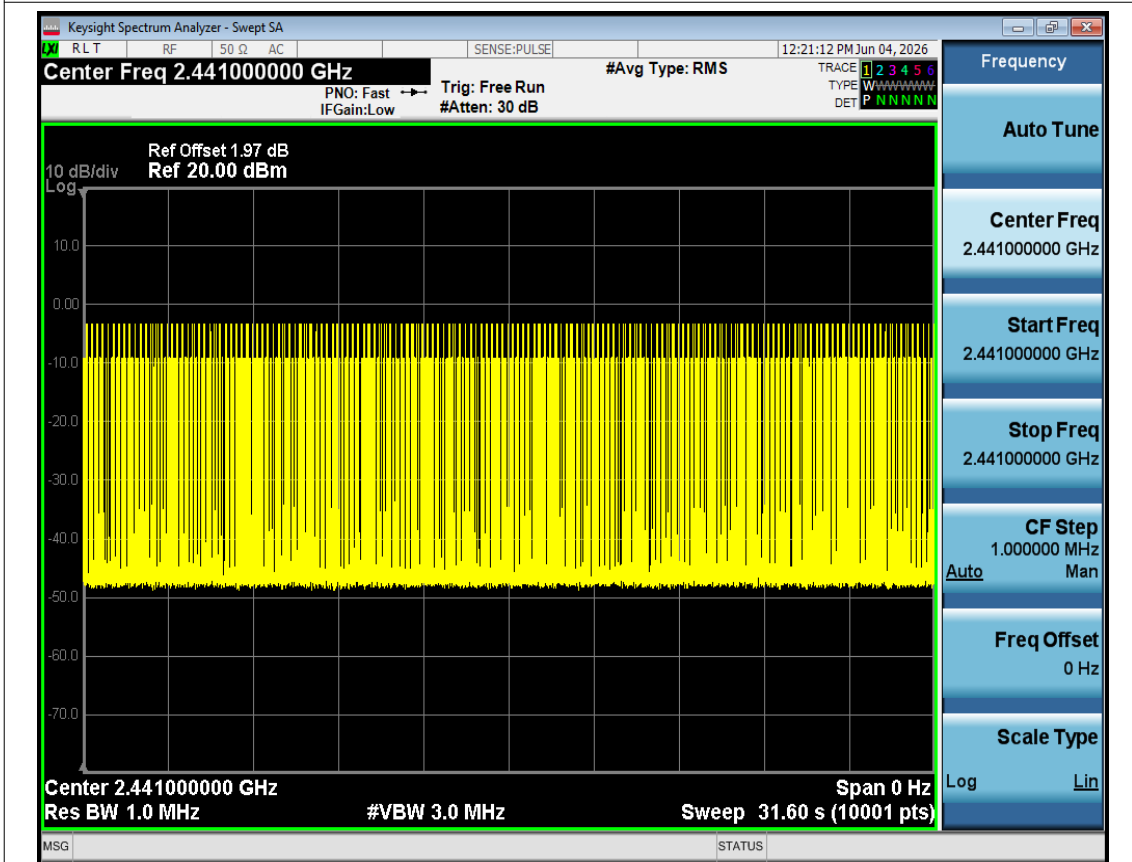


Dwell Time

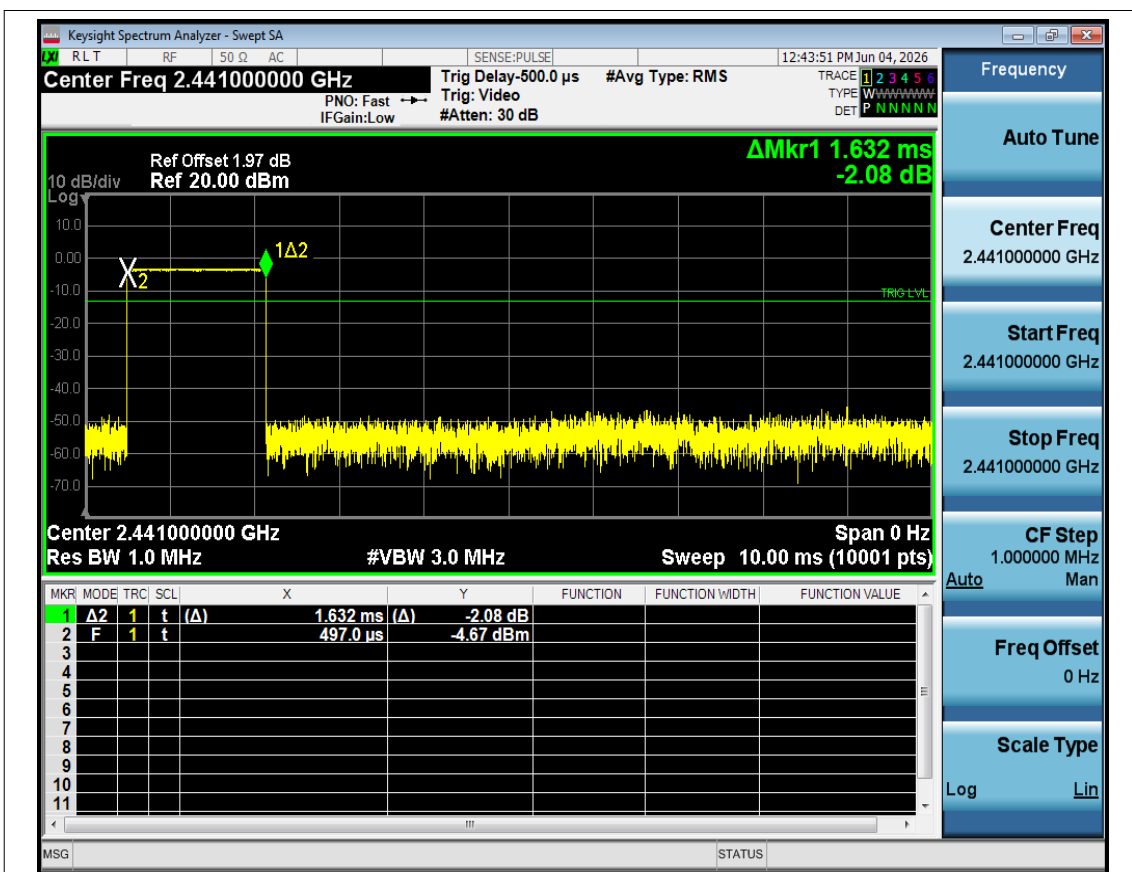
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.371	116.123	313	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.632	251.328	154	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.868	329.82	115	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.385	120.505	313	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.631	254.436	156	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.879	319.569	111	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.386	122.362	317	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.623	267.795	165	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	314.683	109	31600	400	Pass



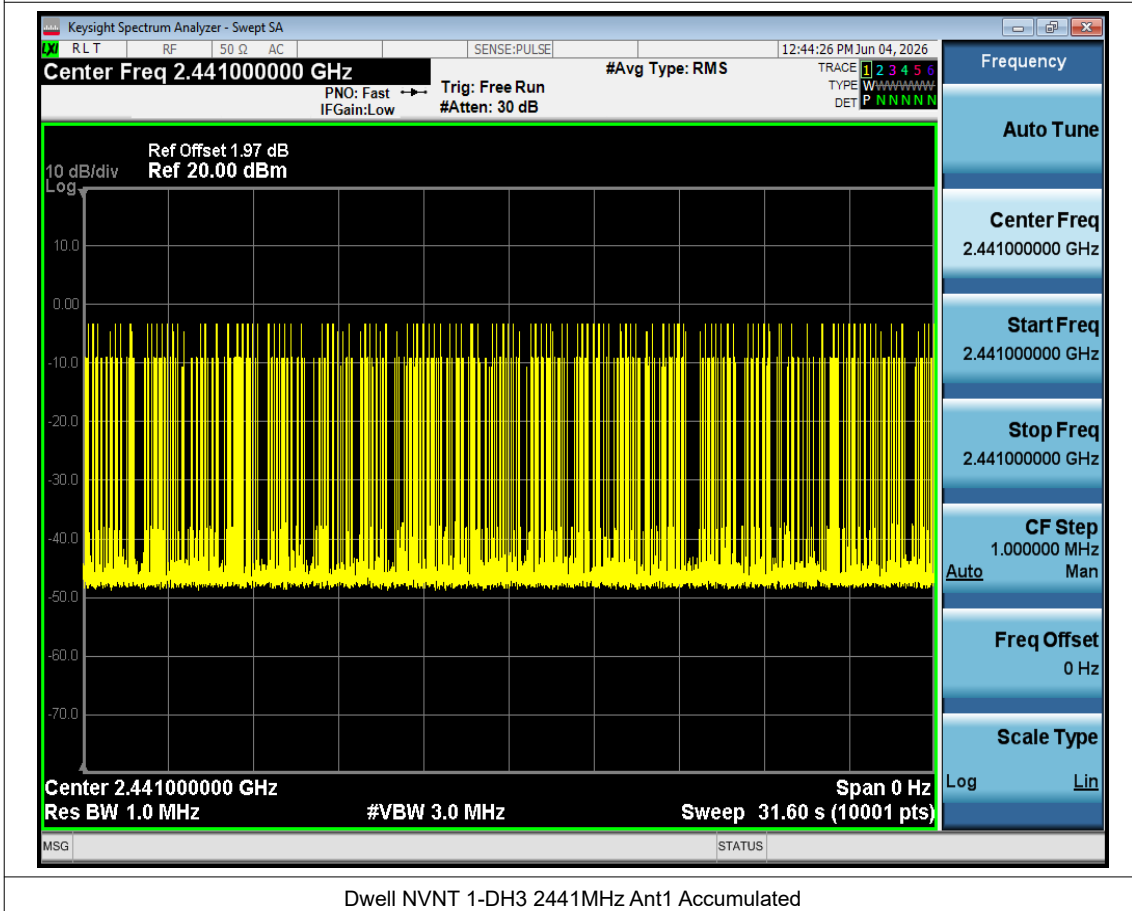
Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



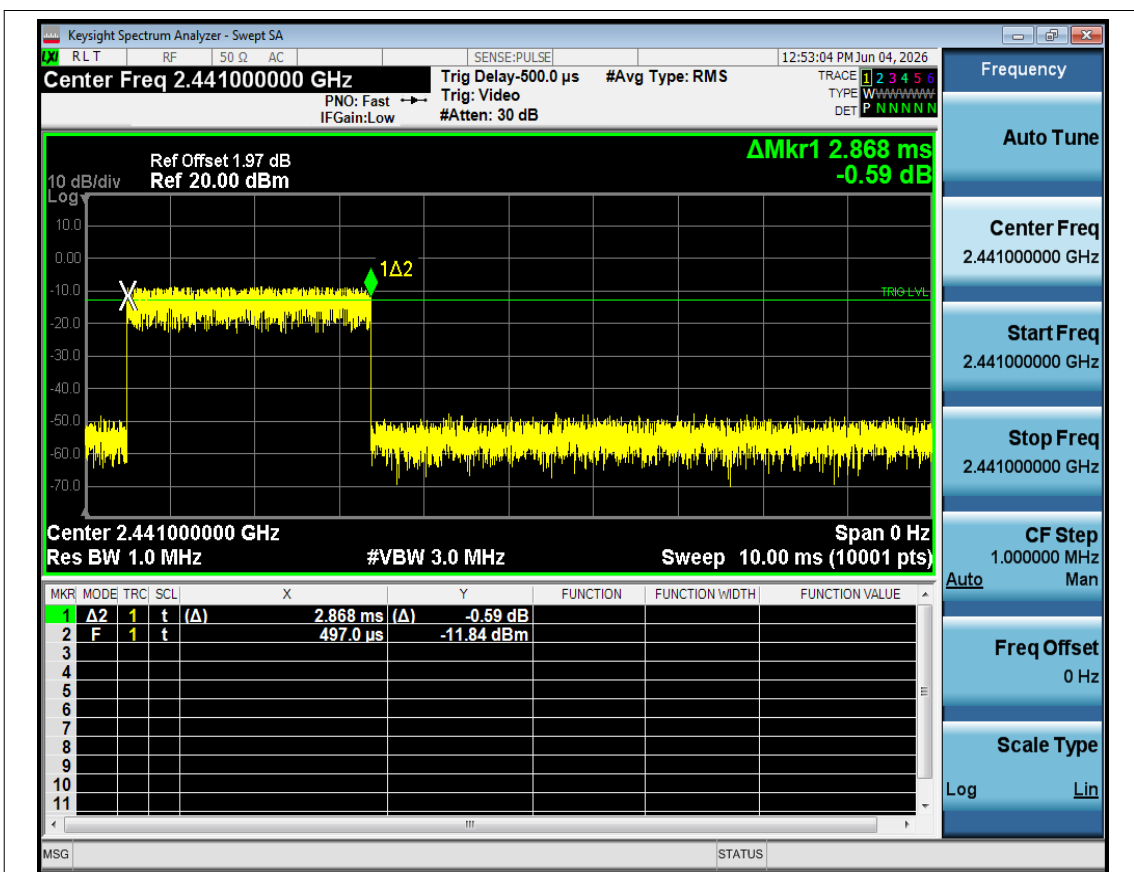
Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



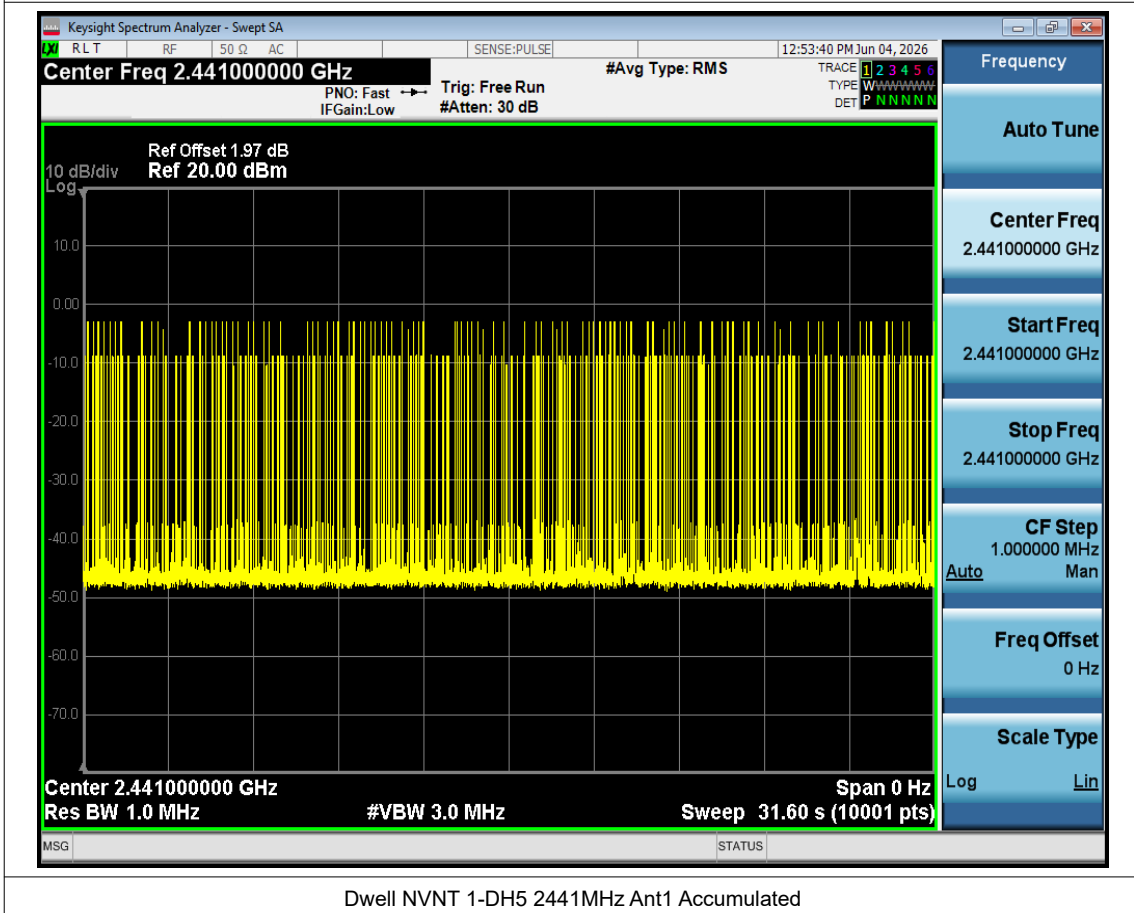
Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



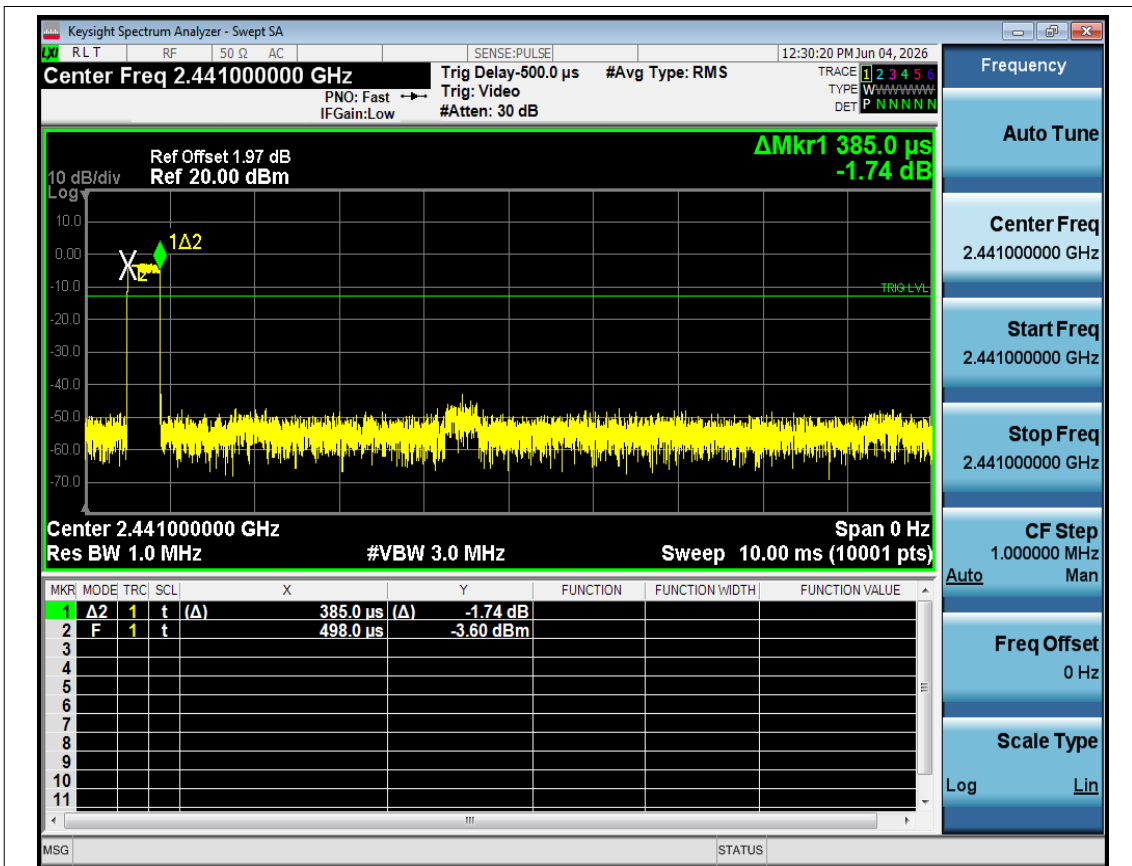
Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



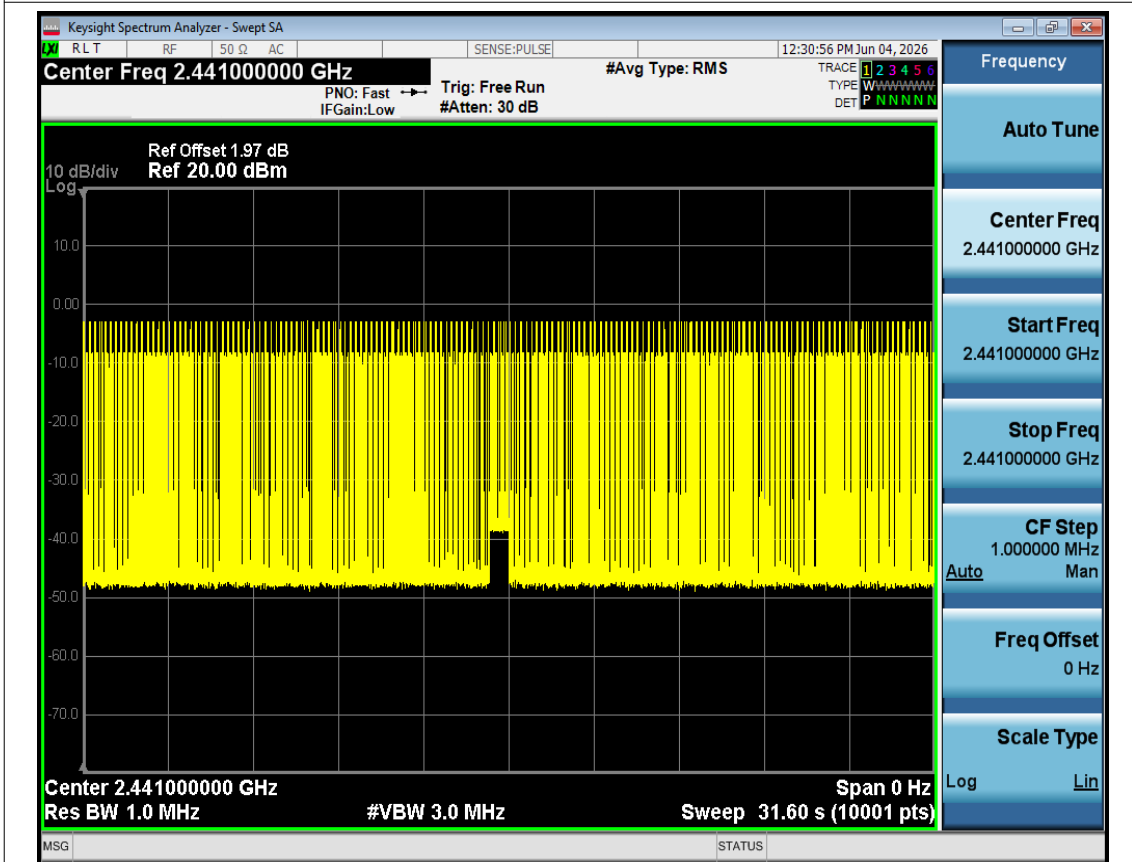
Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



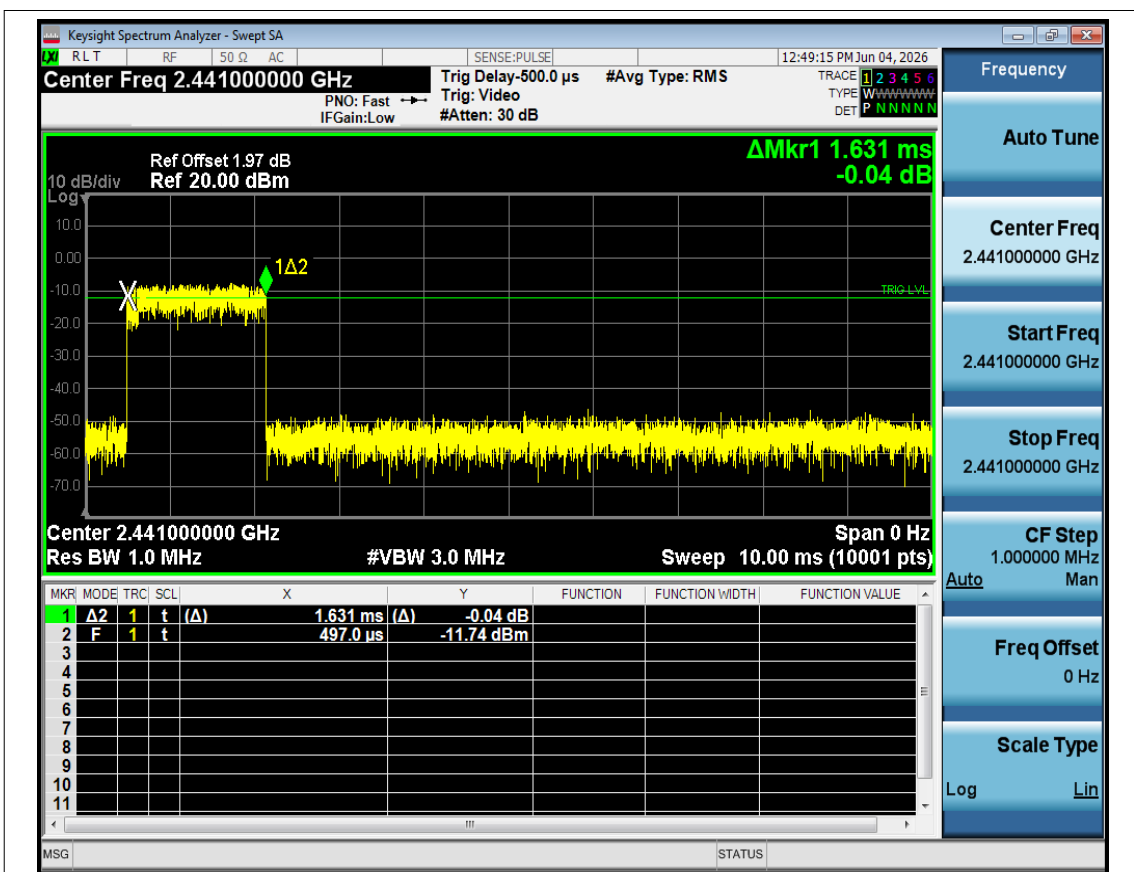
Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



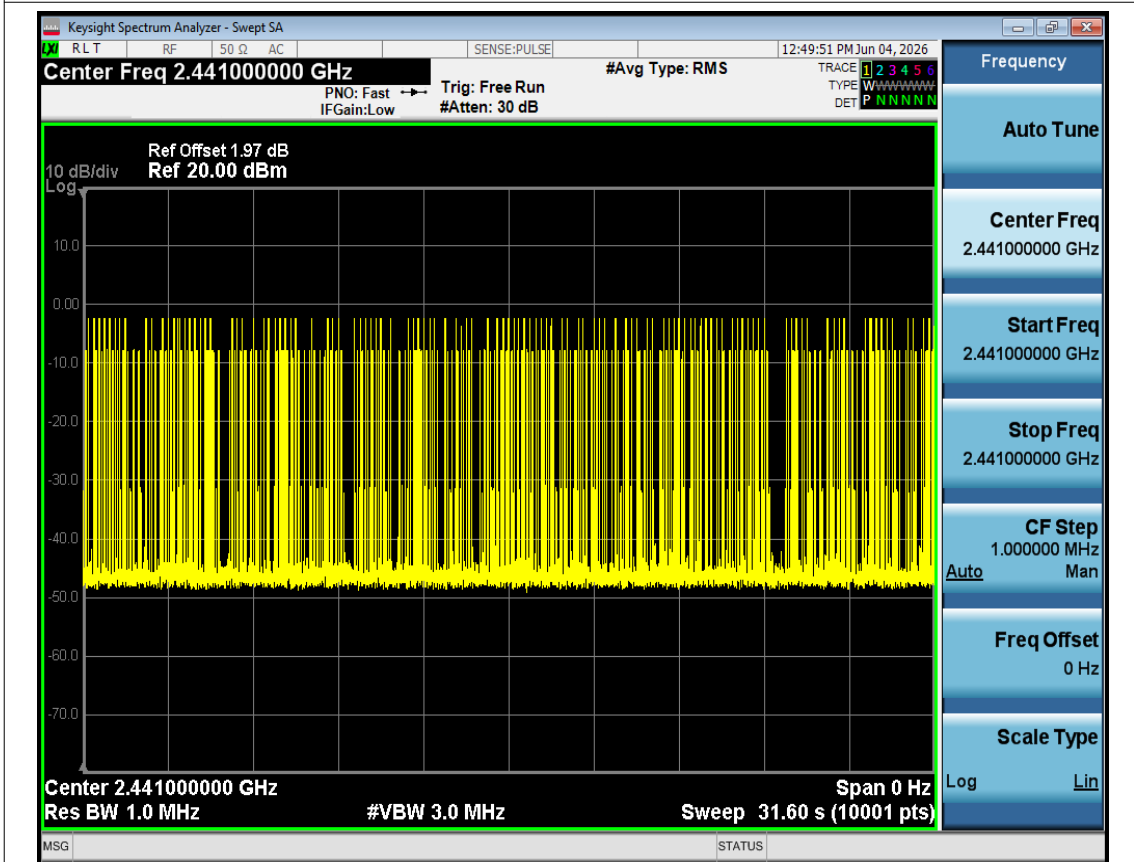
Dwell NVNT 2-DH1 2441MHz Ant1 One Burst



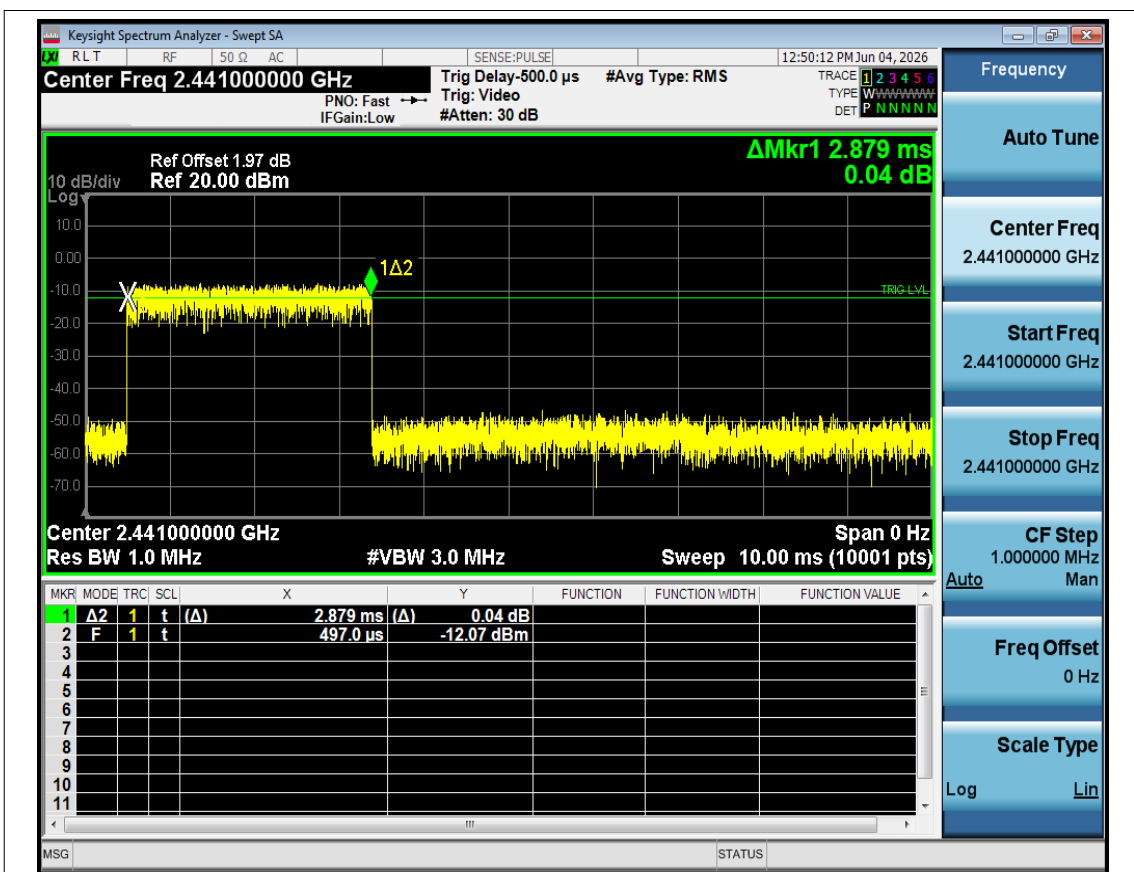
Dwell NVNT 2-DH1 2441MHz Ant1 Accumulated



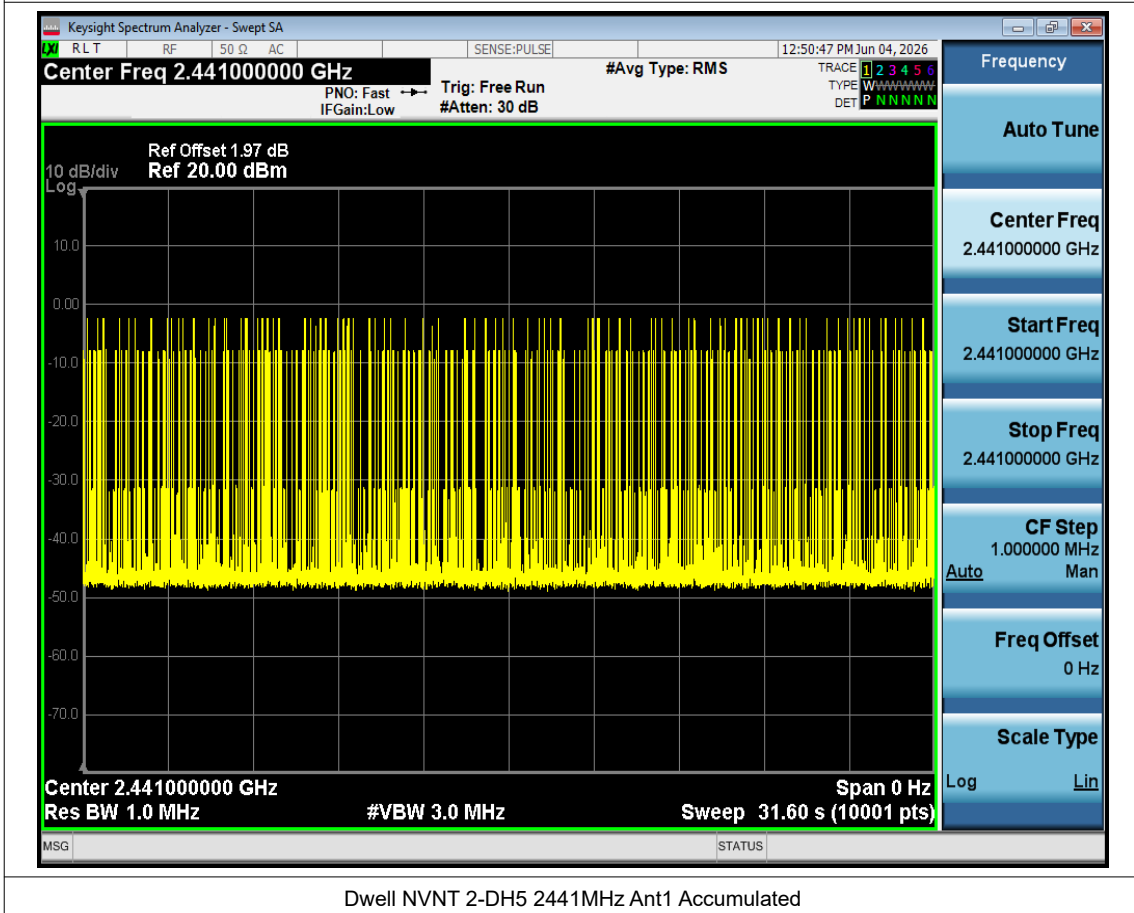
Dwell NVNT 2-DH3 2441MHz Ant1 One Burst



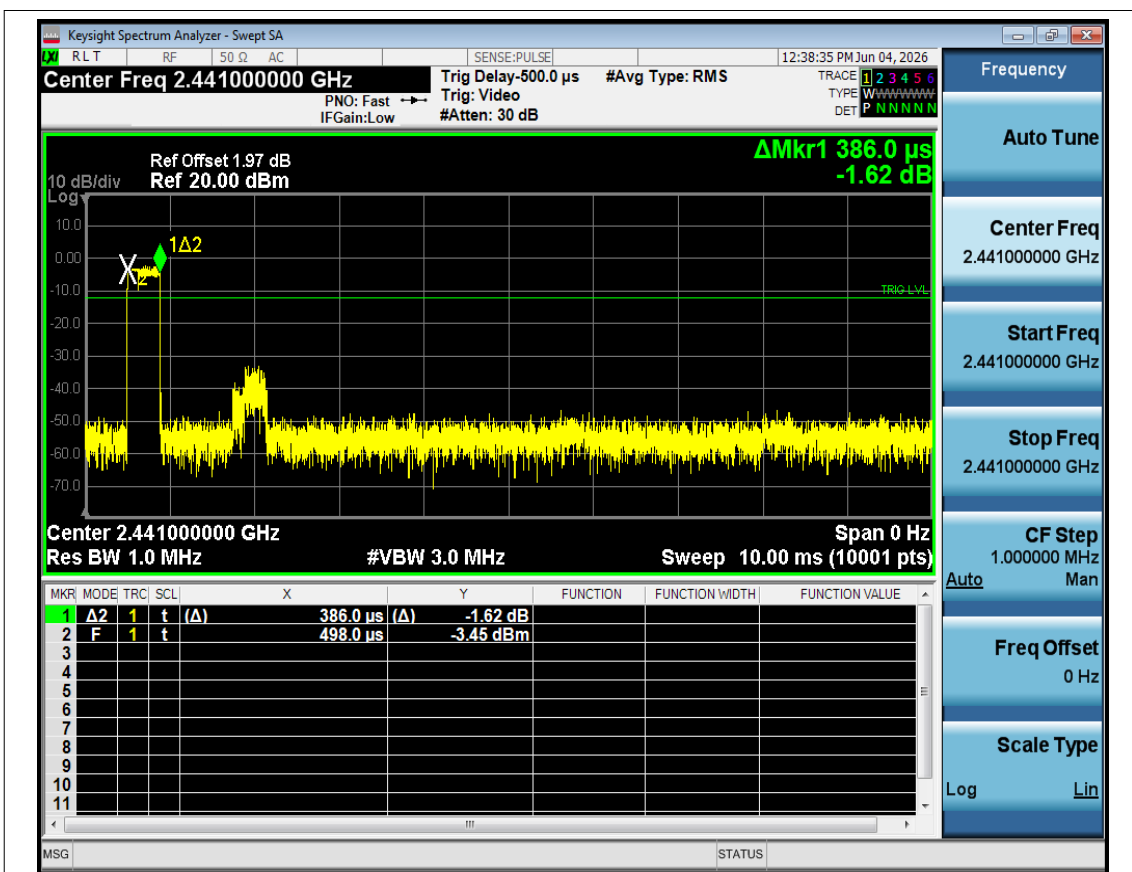
Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



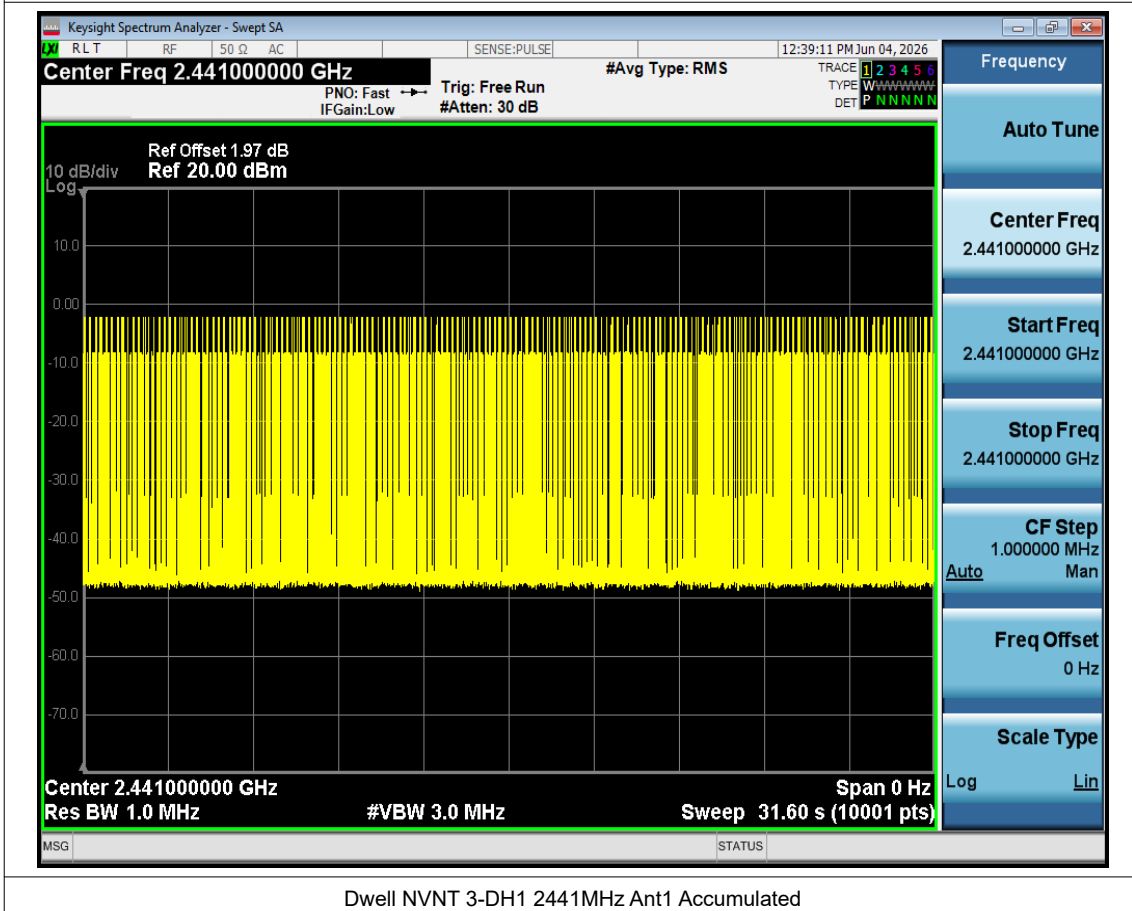
Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



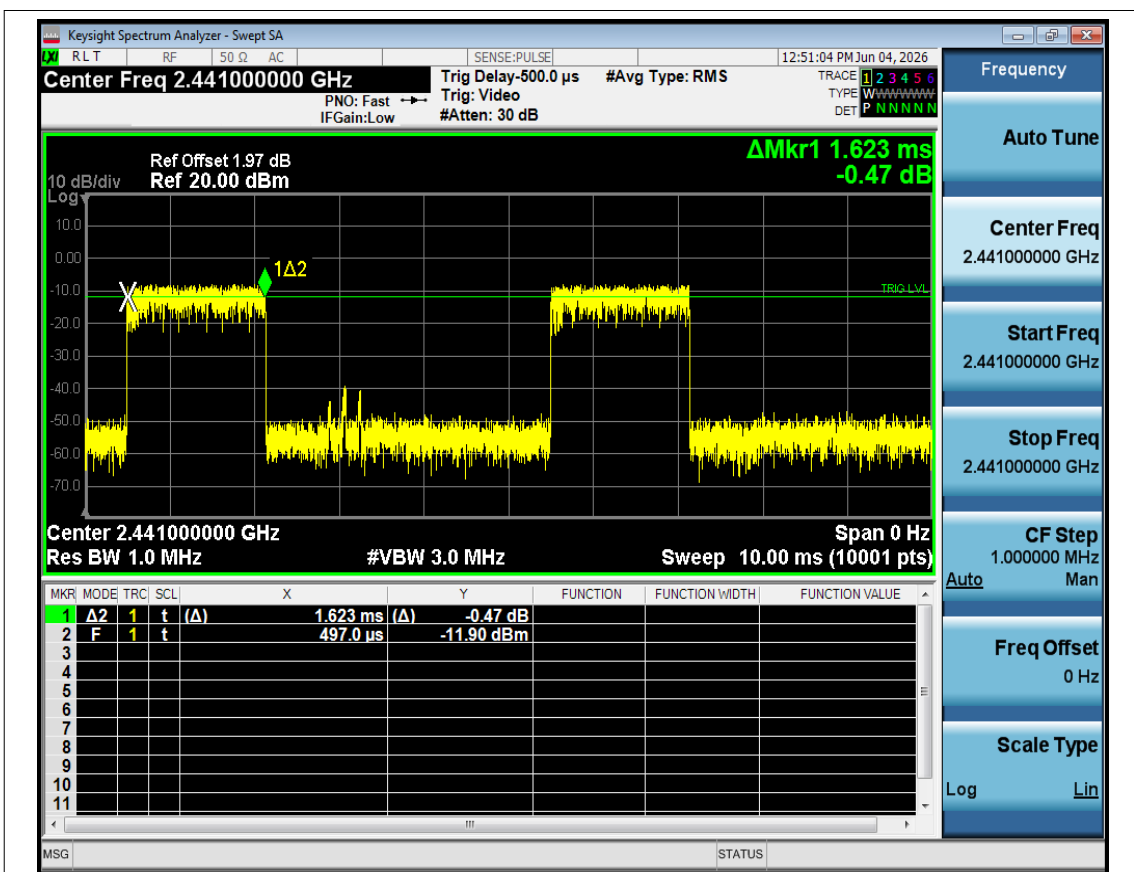
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



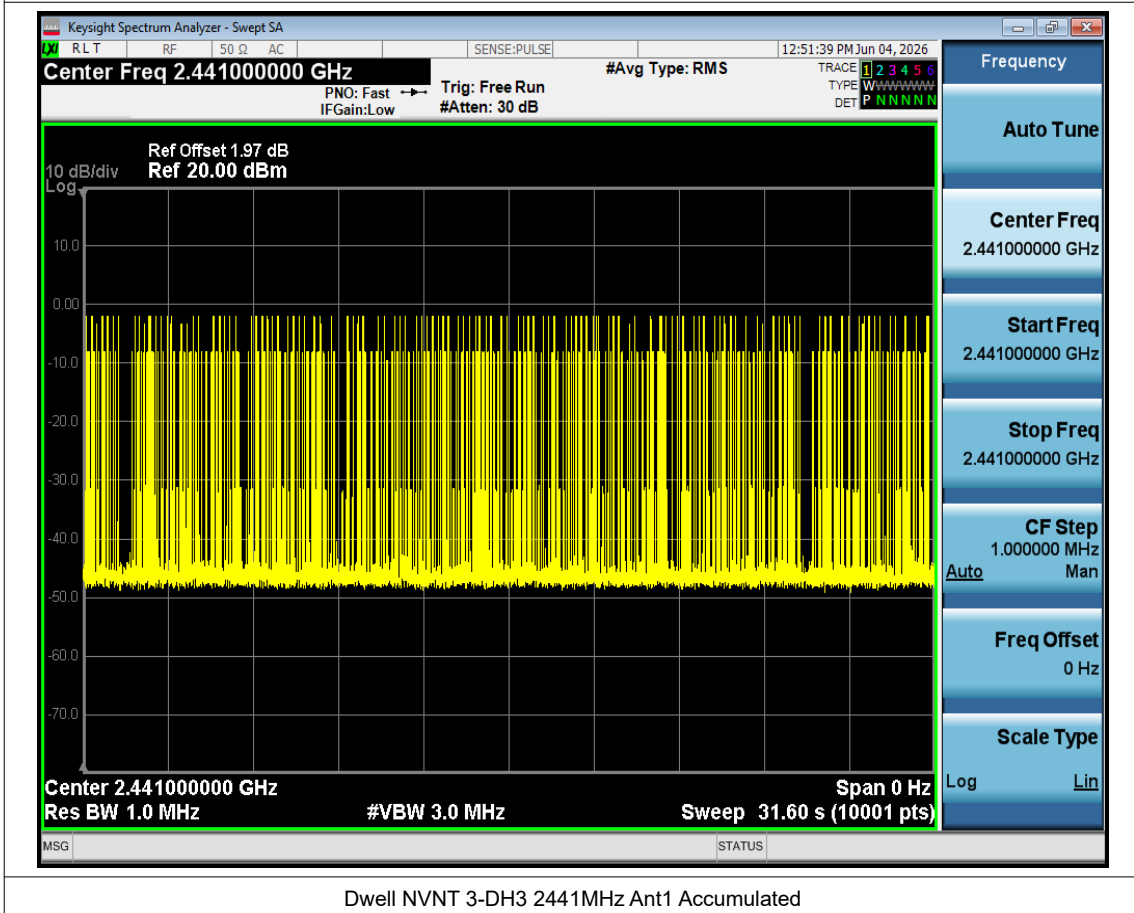
Dwell NVNT 3-DH1 2441MHz Ant1 One Burst



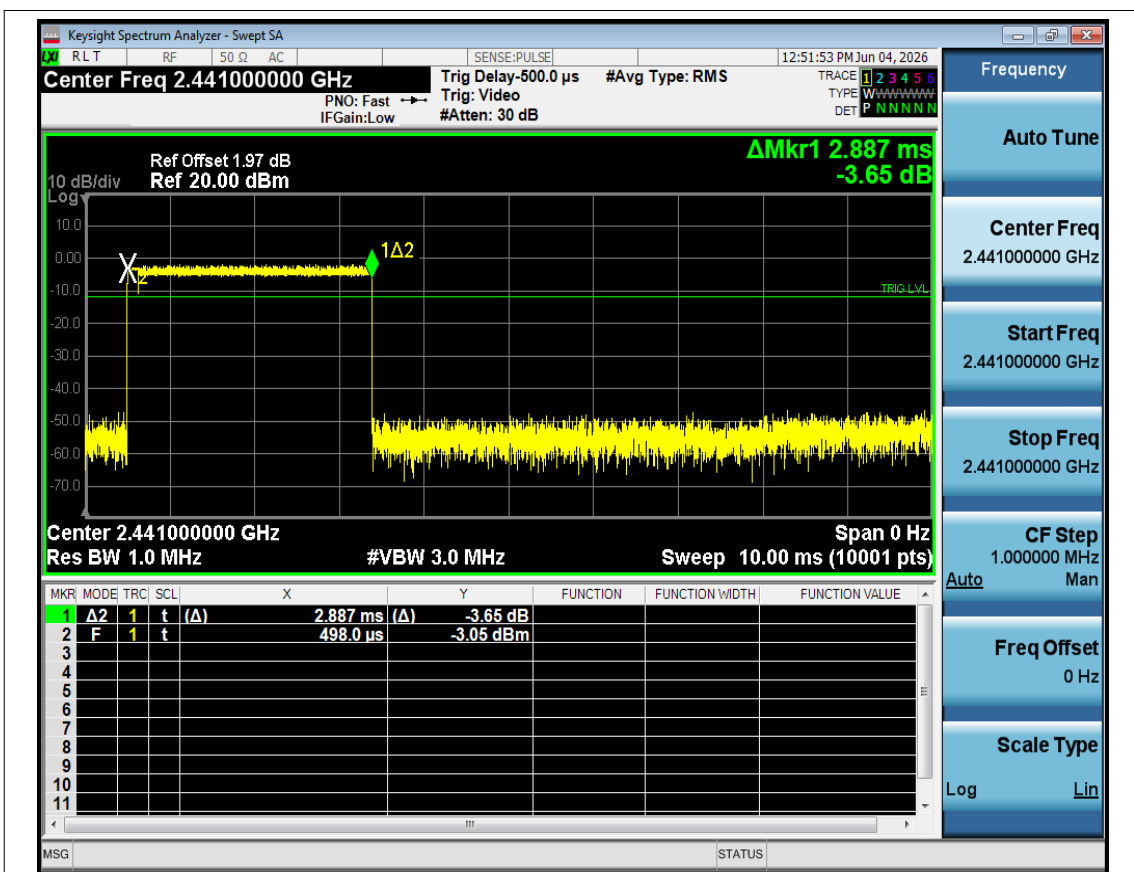
Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated



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