

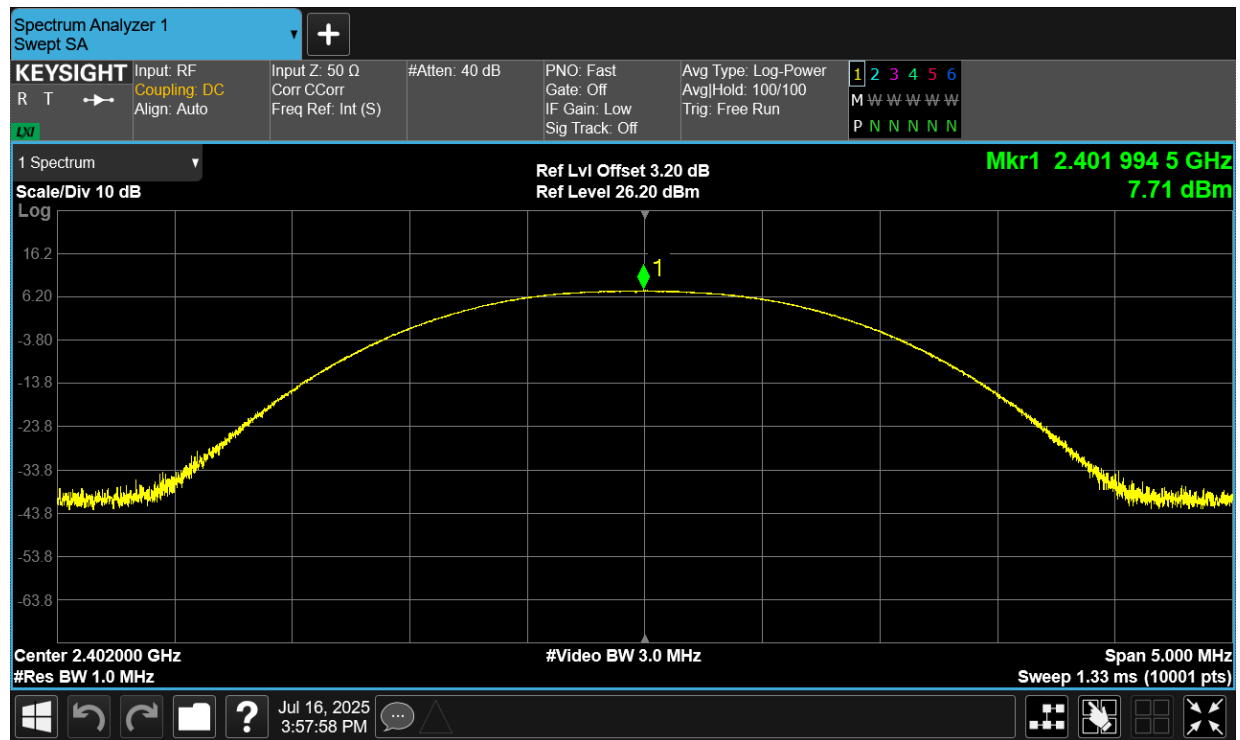
Test Data

Maximum Conducted Output Power

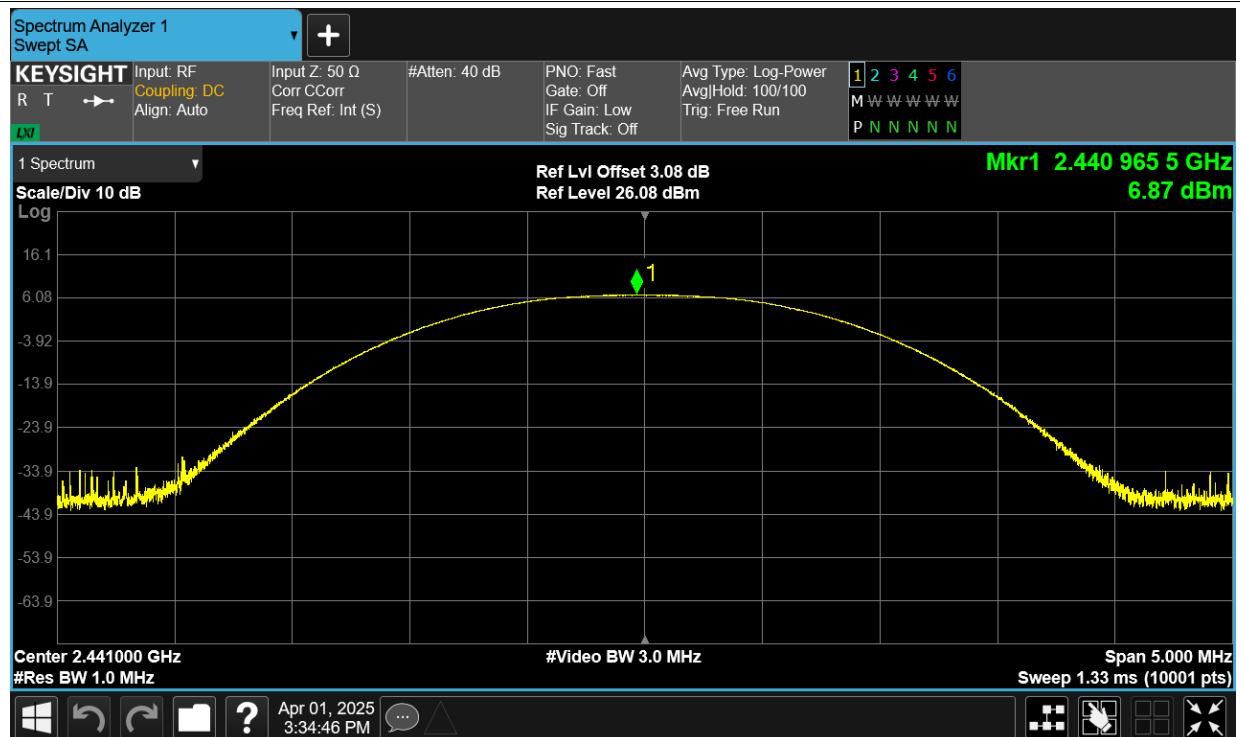
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	7.714	30	Pass
NVNT	1-DH1	2441	Ant1	6.872	30	Pass
NVNT	1-DH1	2480	Ant1	7.099	30	Pass
NVNT	2-DH1	2402	Ant1	6.335	21	Pass
NVNT	2-DH1	2441	Ant1	6.283	21	Pass
NVNT	2-DH1	2480	Ant1	6.374	21	Pass
NVNT	3-DH1	2402	Ant1	6.43	21	Pass
NVNT	3-DH1	2441	Ant1	6.609	21	Pass
NVNT	3-DH1	2480	Ant1	6.849	21	Pass

Test Graphs

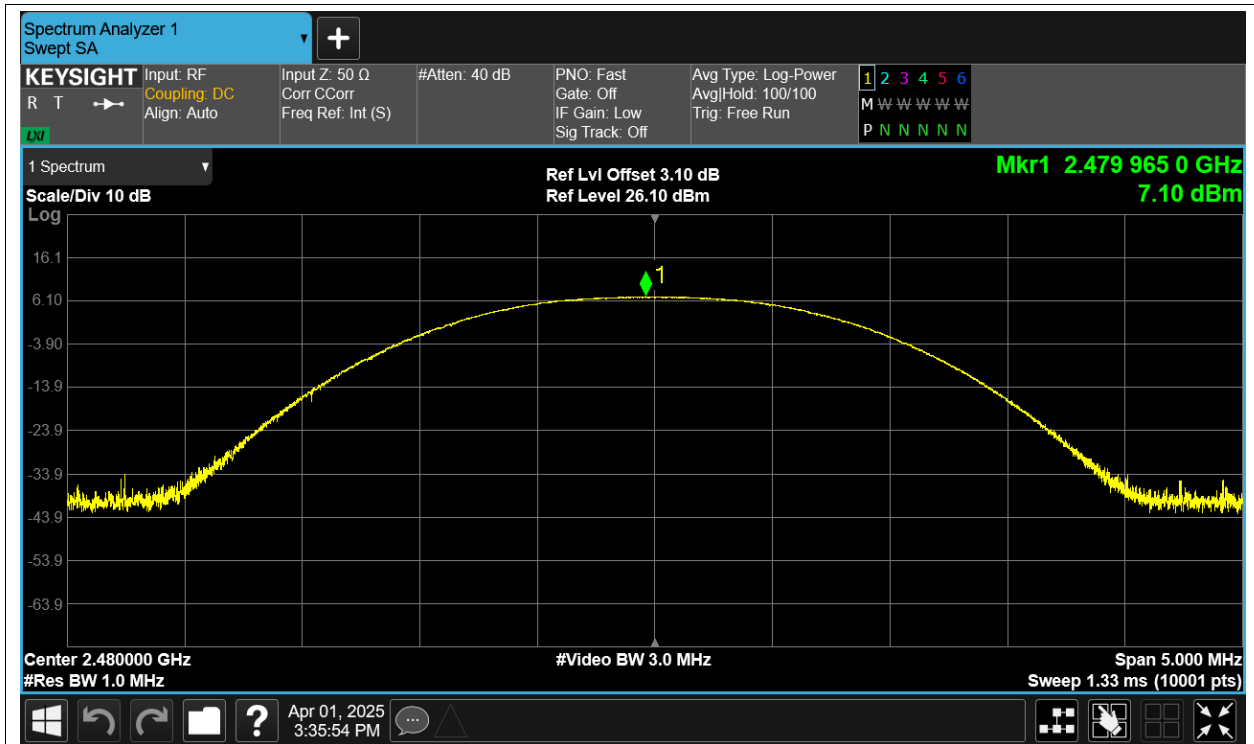
Power NVNT 1-DH1 2402MHz Ant1



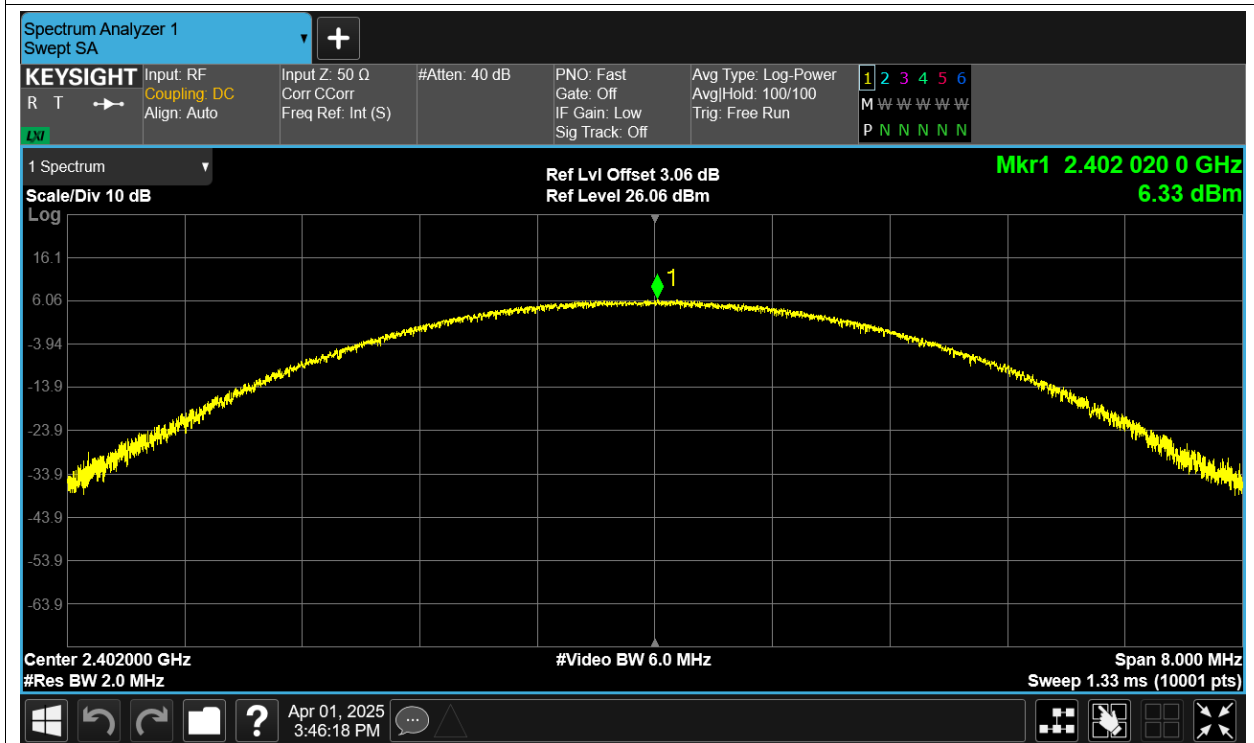
Power NVNT 1-DH1 2441MHz Ant1



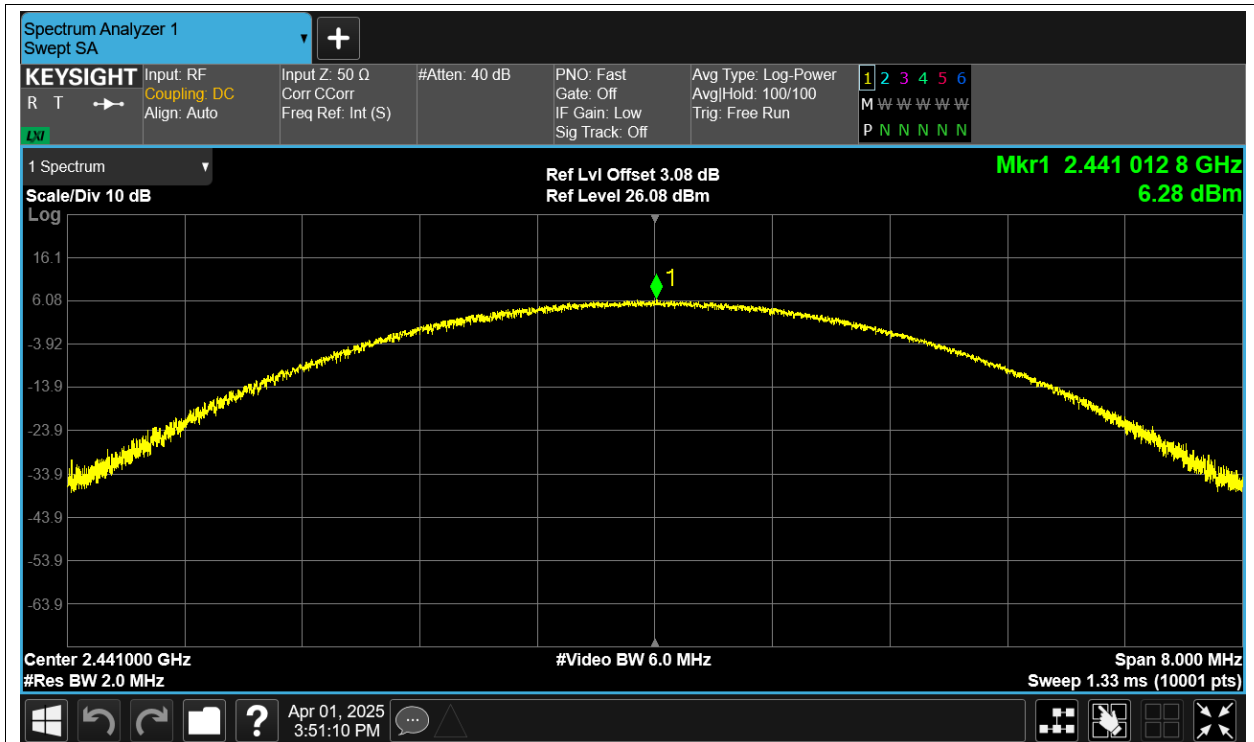
Power NVNT 1-DH1 2480MHz Ant1



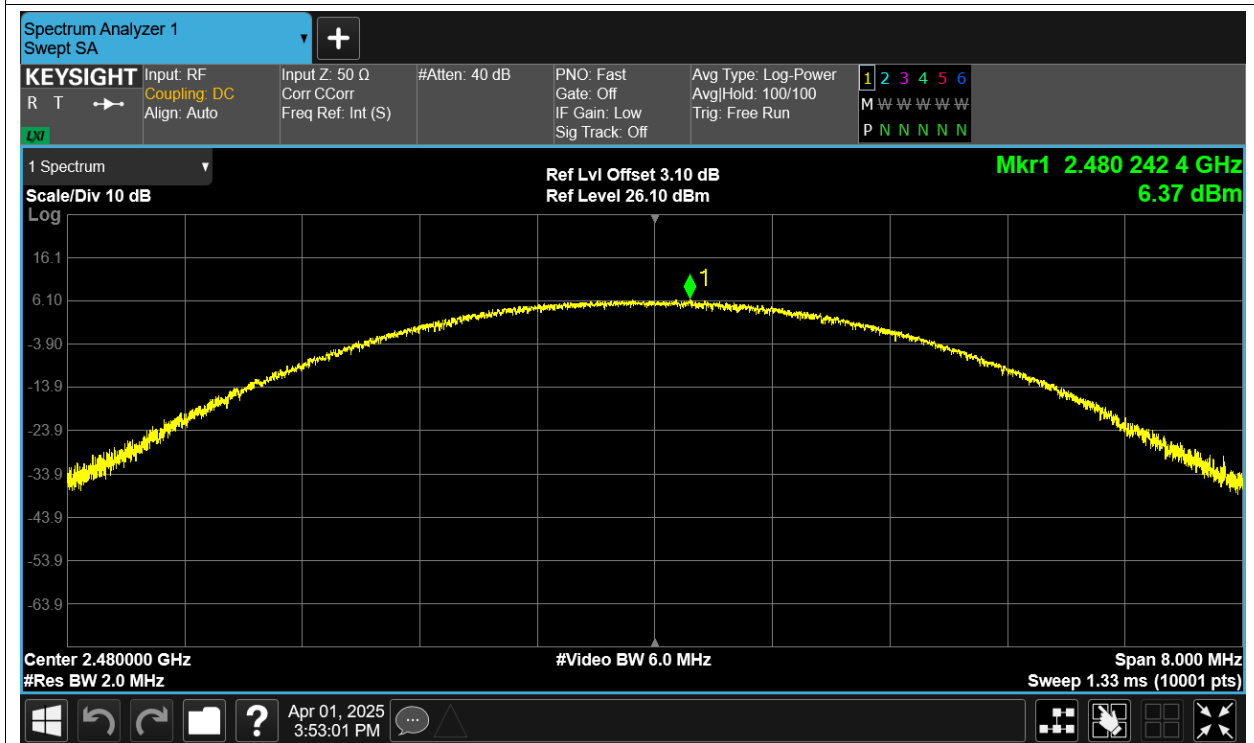
Power NVNT 2-DH1 2402MHz Ant1



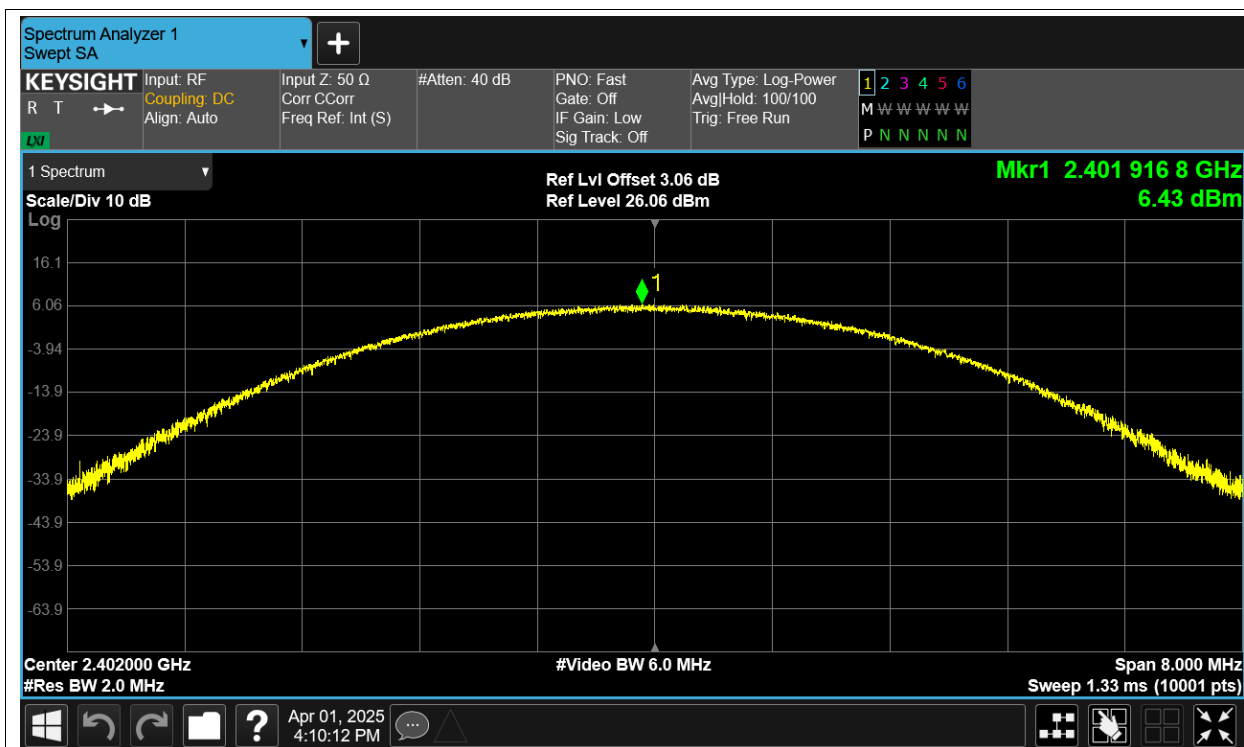
Power NVNT 2-DH1 2441MHz Ant1



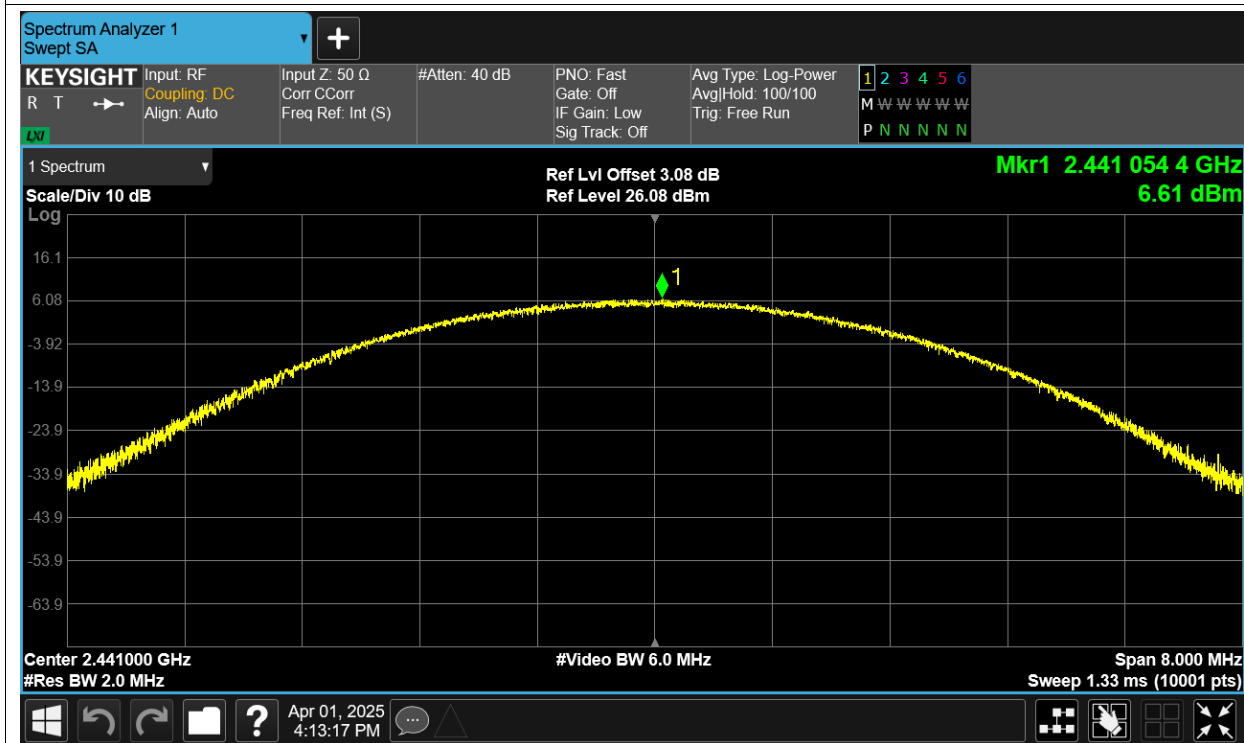
Power NVNT 2-DH1 2480MHz Ant1



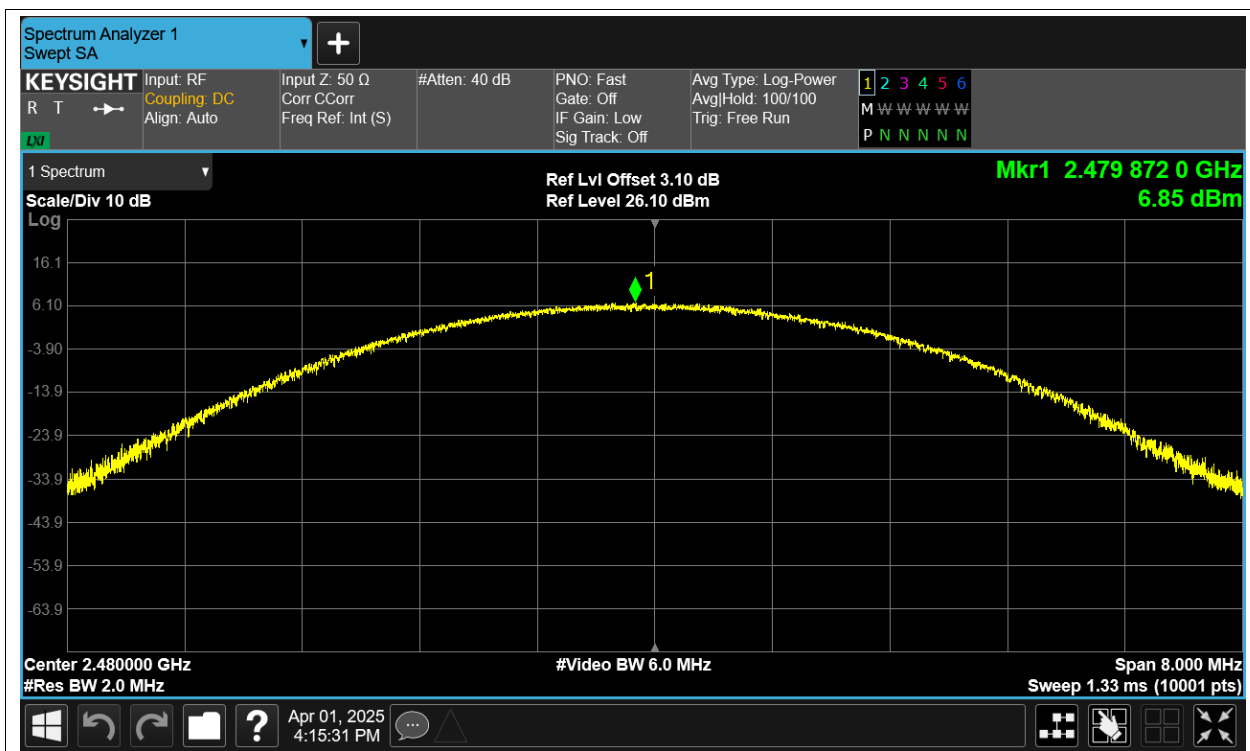
Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



Power NVNT 3-DH1 2480MHz Ant1



-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)
NVNT	1-DH1	2402	Ant1	0.72
NVNT	1-DH1	2441	Ant1	0.826
NVNT	1-DH1	2480	Ant1	0.717
NVNT	2-DH1	2402	Ant1	1.277
NVNT	2-DH1	2441	Ant1	1.236
NVNT	2-DH1	2480	Ant1	1.247
NVNT	3-DH1	2402	Ant1	1.252
NVNT	3-DH1	2441	Ant1	1.251
NVNT	3-DH1	2480	Ant1	1.254

Test Graphs

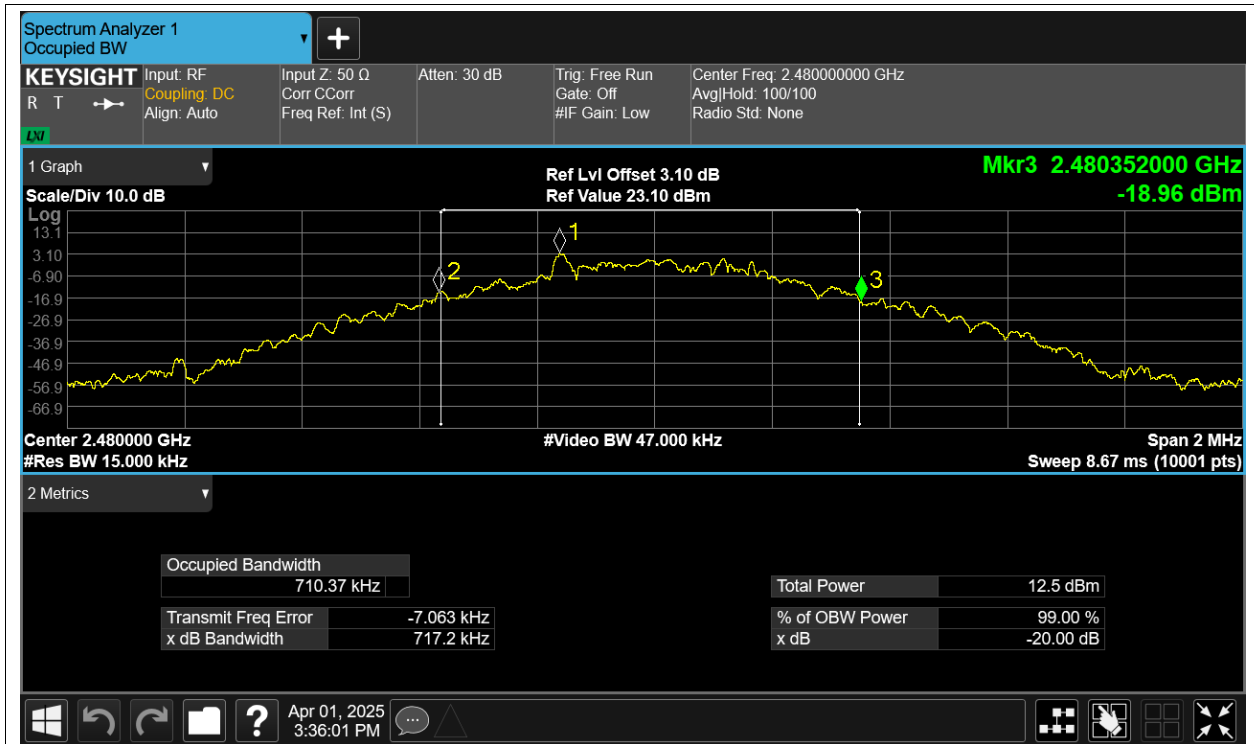
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



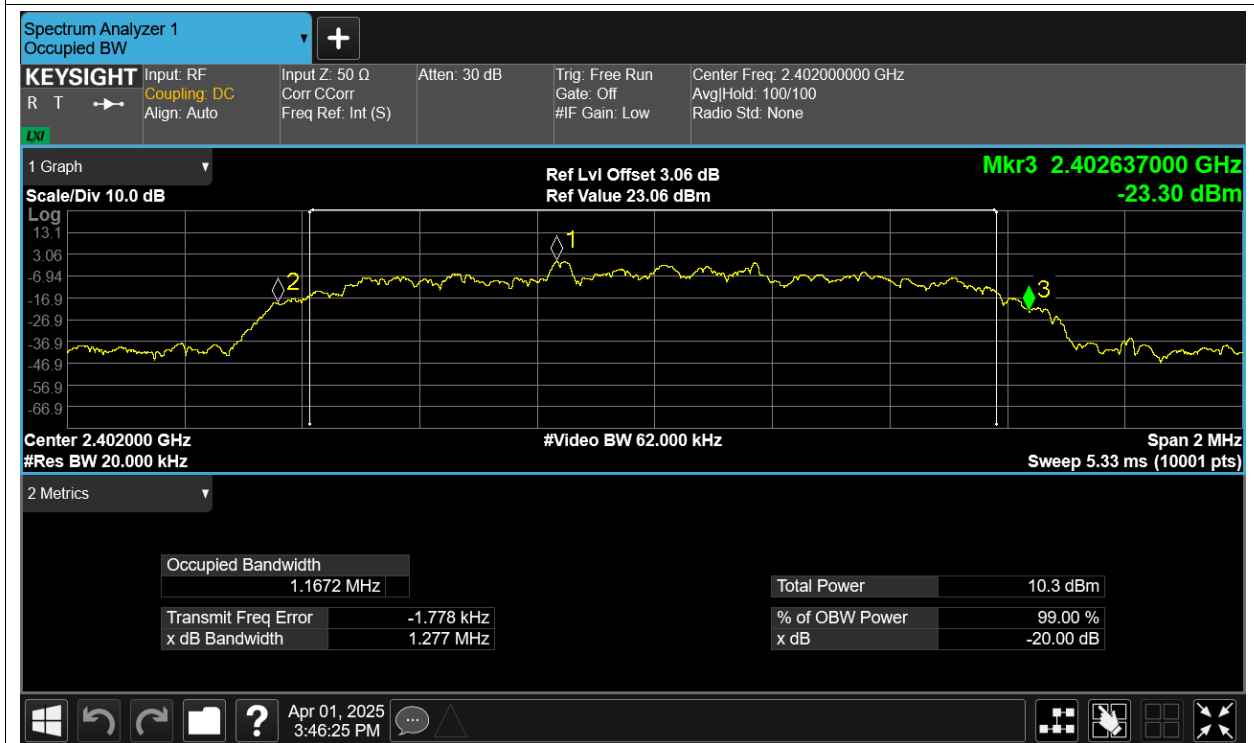
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



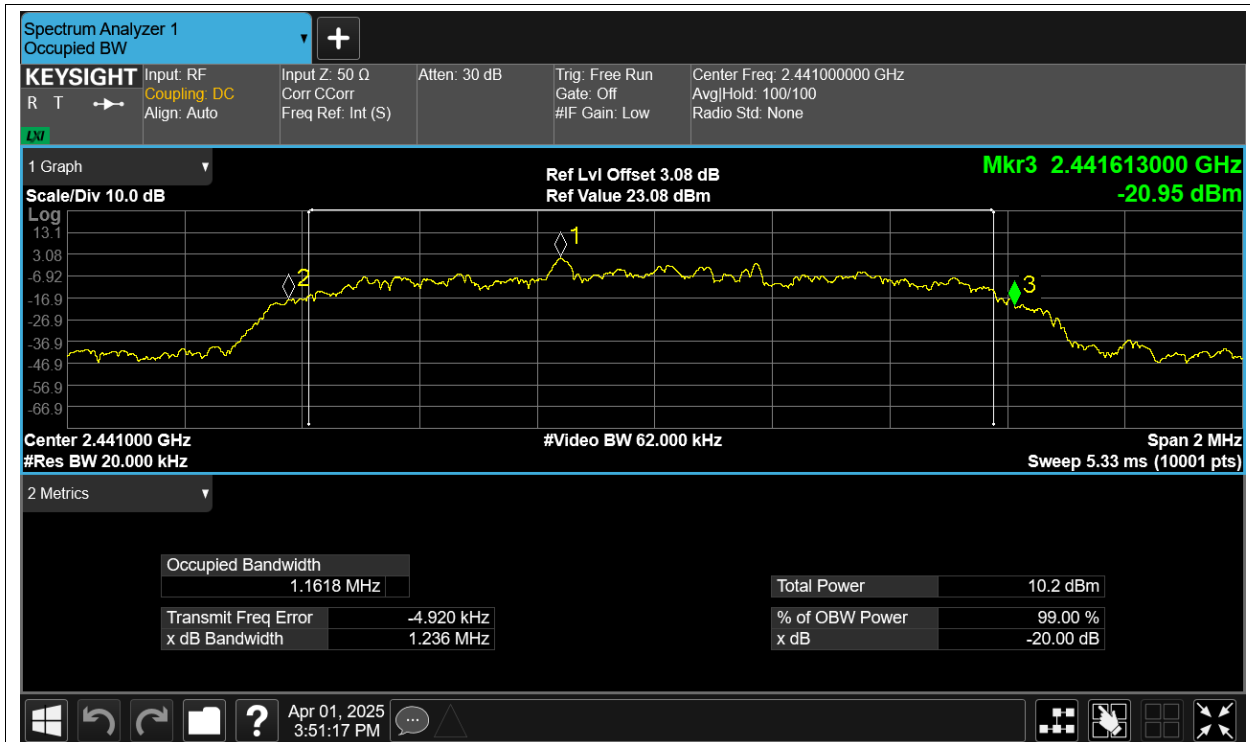
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



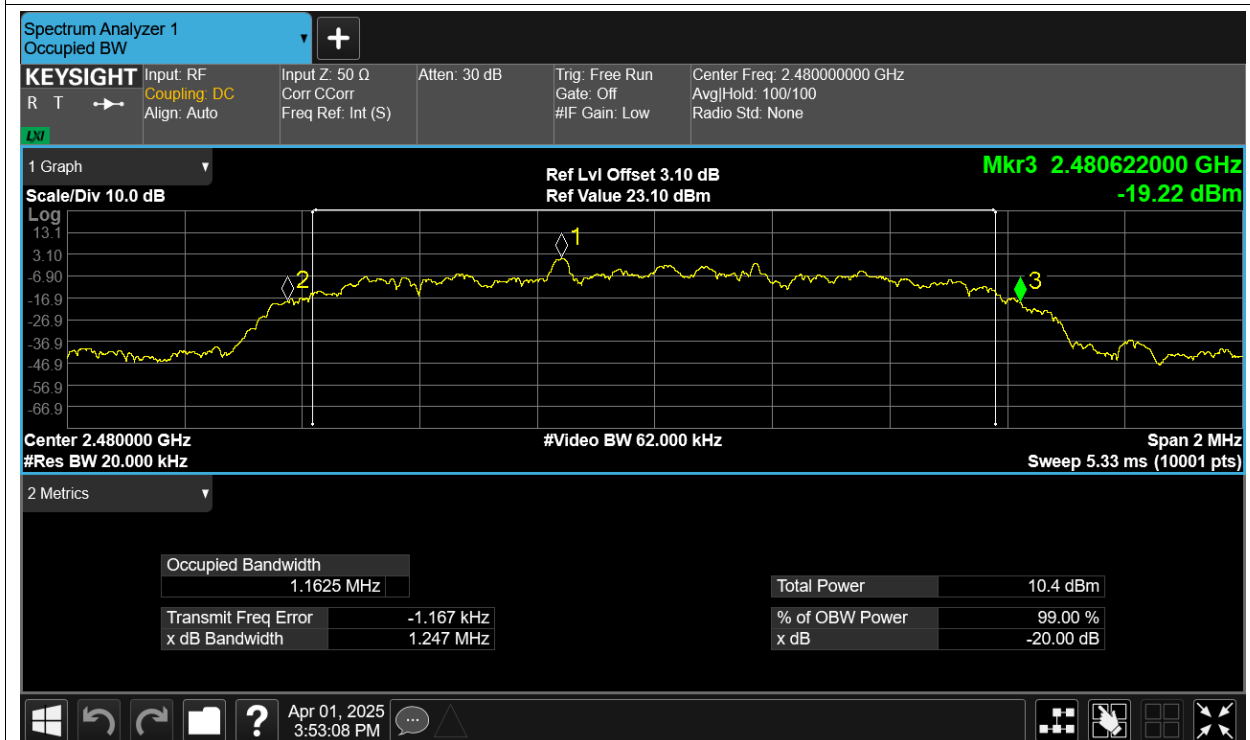
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



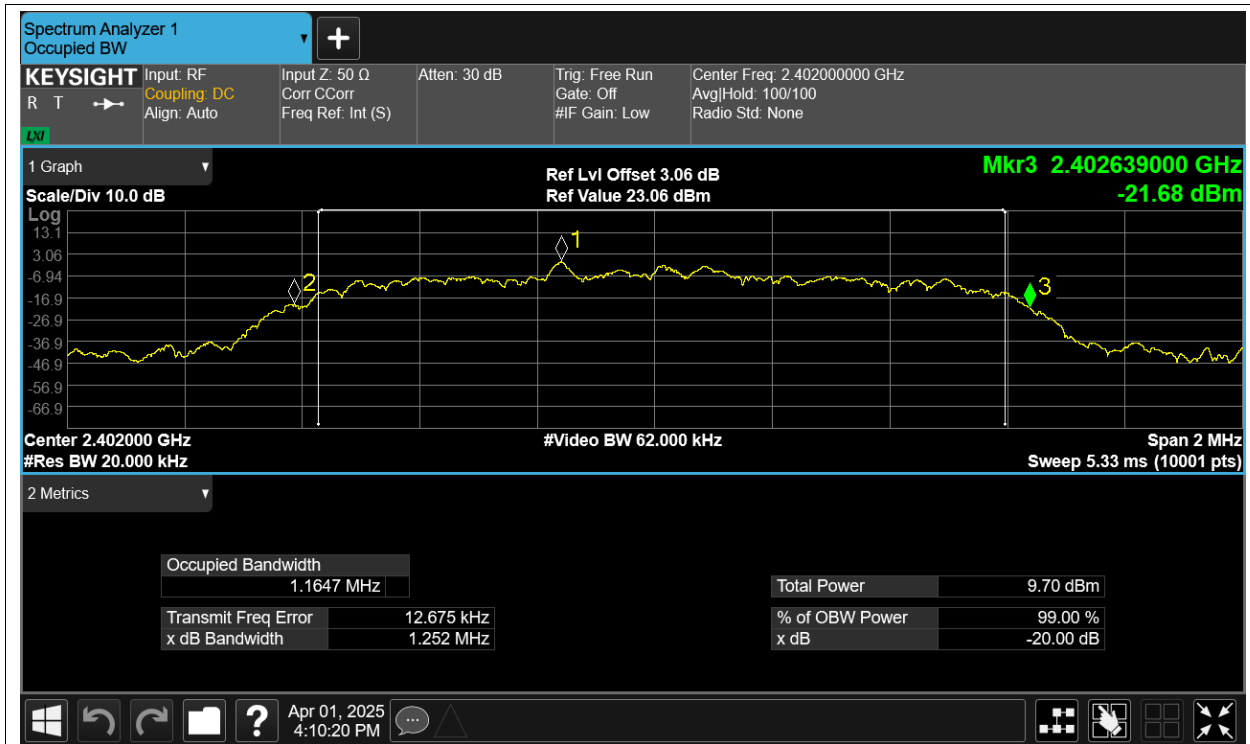
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



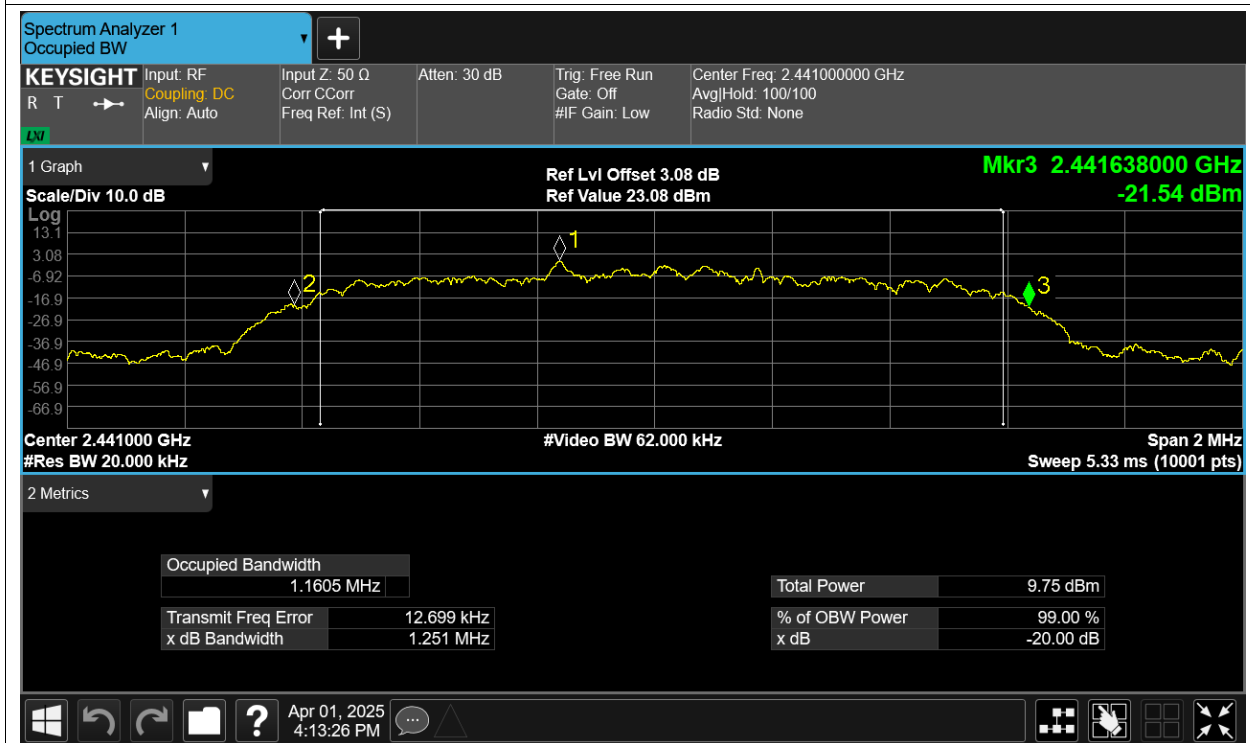
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



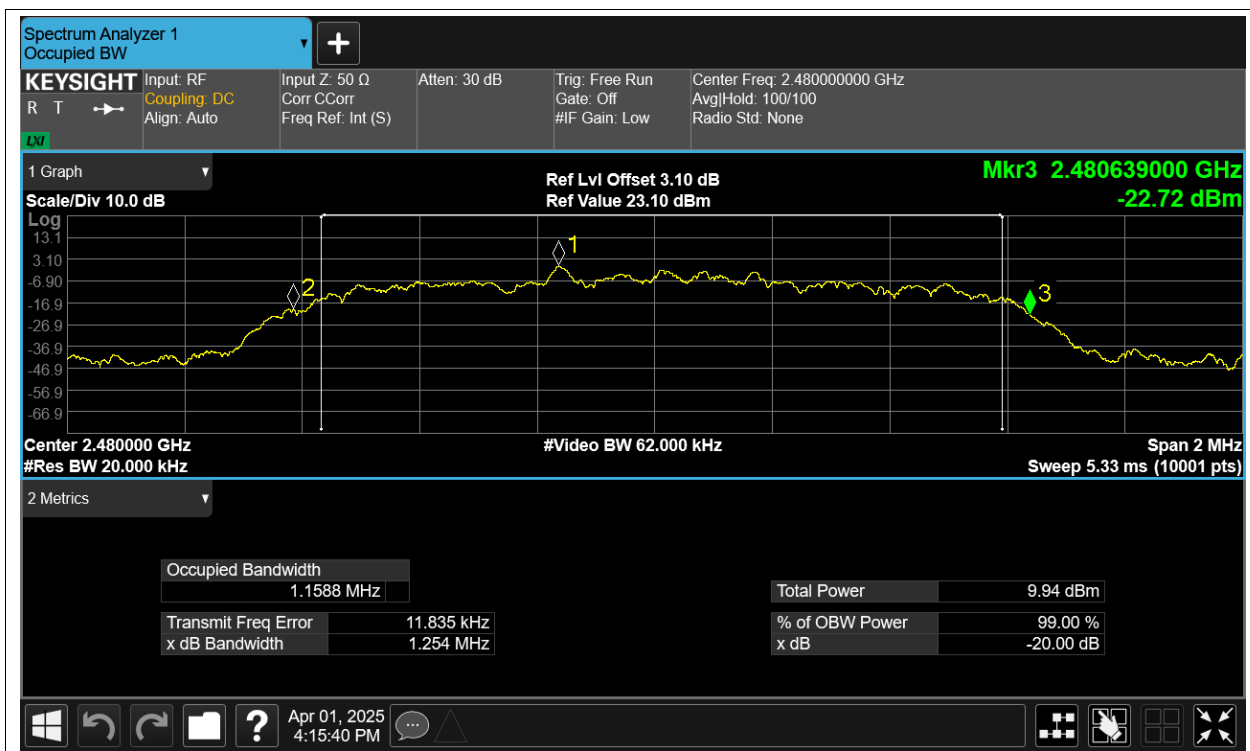
-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2480MHz Ant1

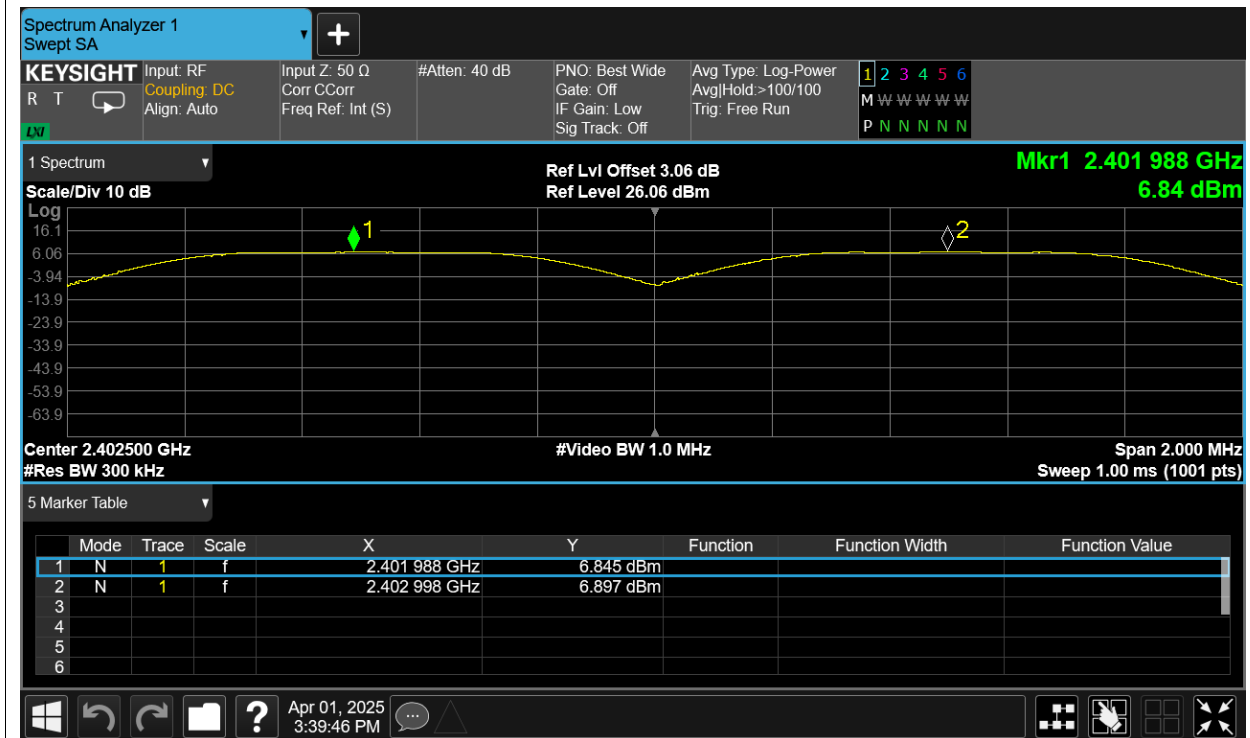


Carrier Frequencies Separation

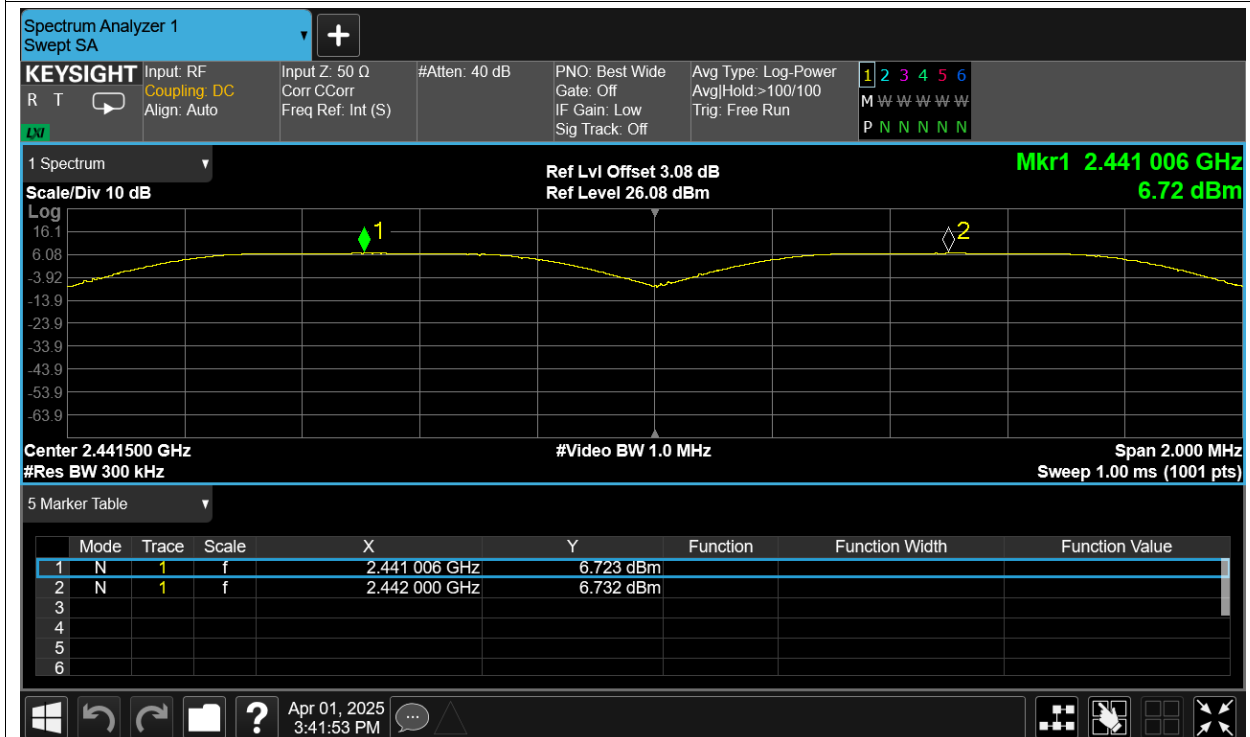
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2401.988	2402.998	1.01	0.72	Pass
NVNT	1-DH1	Ant1	2441.006	2442	0.994	0.826	Pass
NVNT	1-DH1	Ant1	2478.996	2480.012	1.016	0.717	Pass
NVNT	2-DH1	Ant1	2402.148	2403.114	0.966	0.851	Pass
NVNT	2-DH1	Ant1	2441.138	2442.126	0.988	0.824	Pass
NVNT	2-DH1	Ant1	2479.144	2480.138	0.994	0.831	Pass
NVNT	3-DH1	Ant1	2401.858	2402.87	1.012	0.835	Pass
NVNT	3-DH1	Ant1	2441.024	2442.032	1.008	0.834	Pass
NVNT	3-DH1	Ant1	2478.846	2480.03	1.184	0.836	Pass

Test Graphs

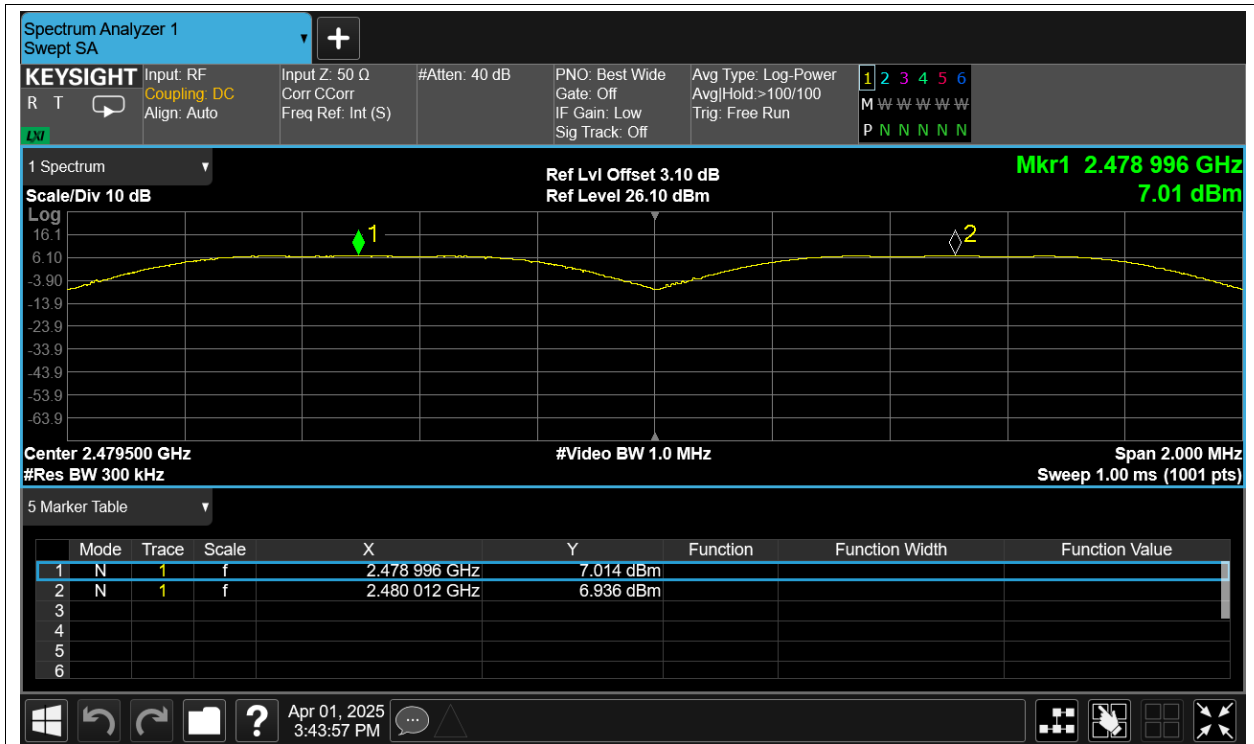
CFS NVNT 1-DH1 2402MHz Ant1



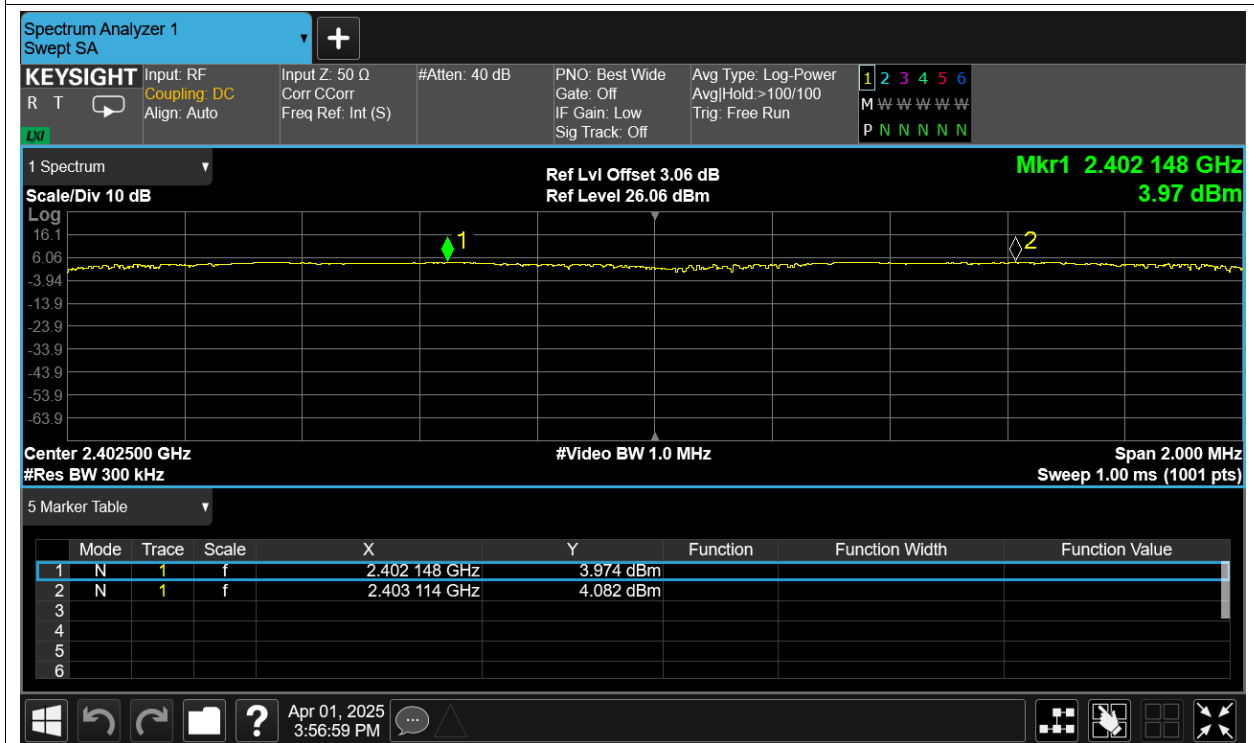
CFS NVNT 1-DH1 2441MHz Ant1



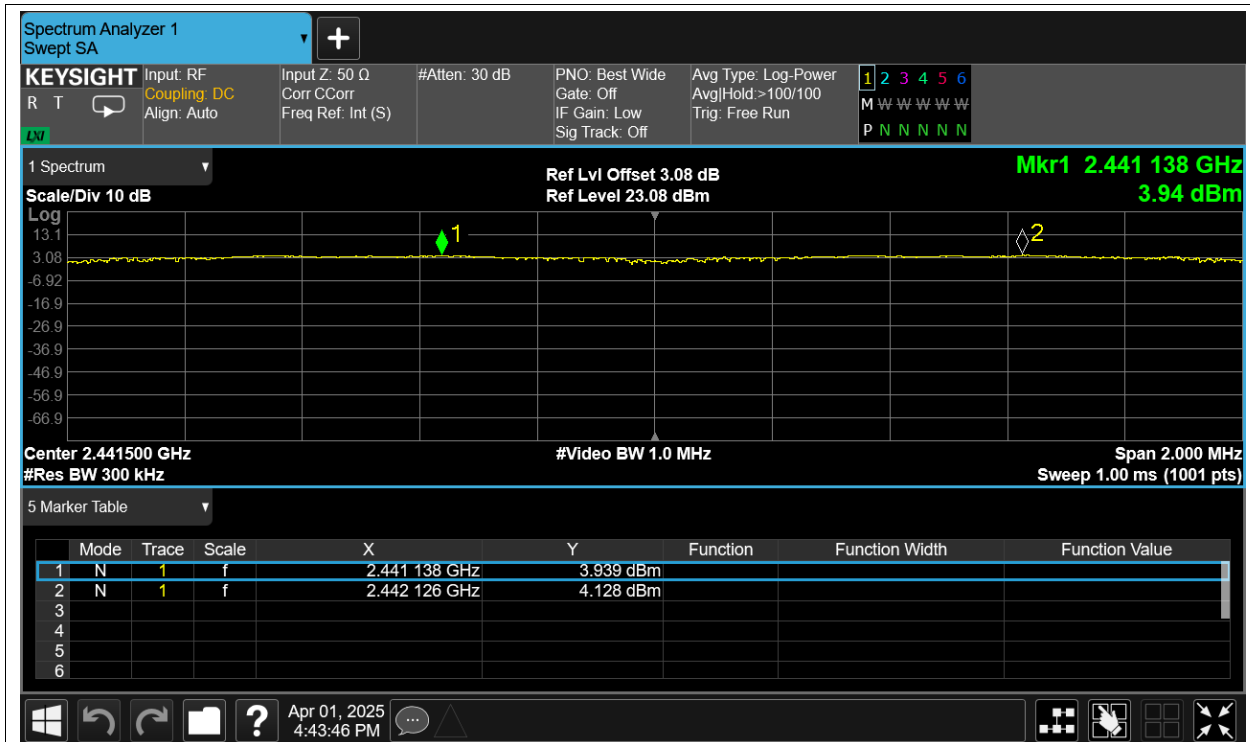
CFS NVNT 1-DH1 2480MHz Ant1



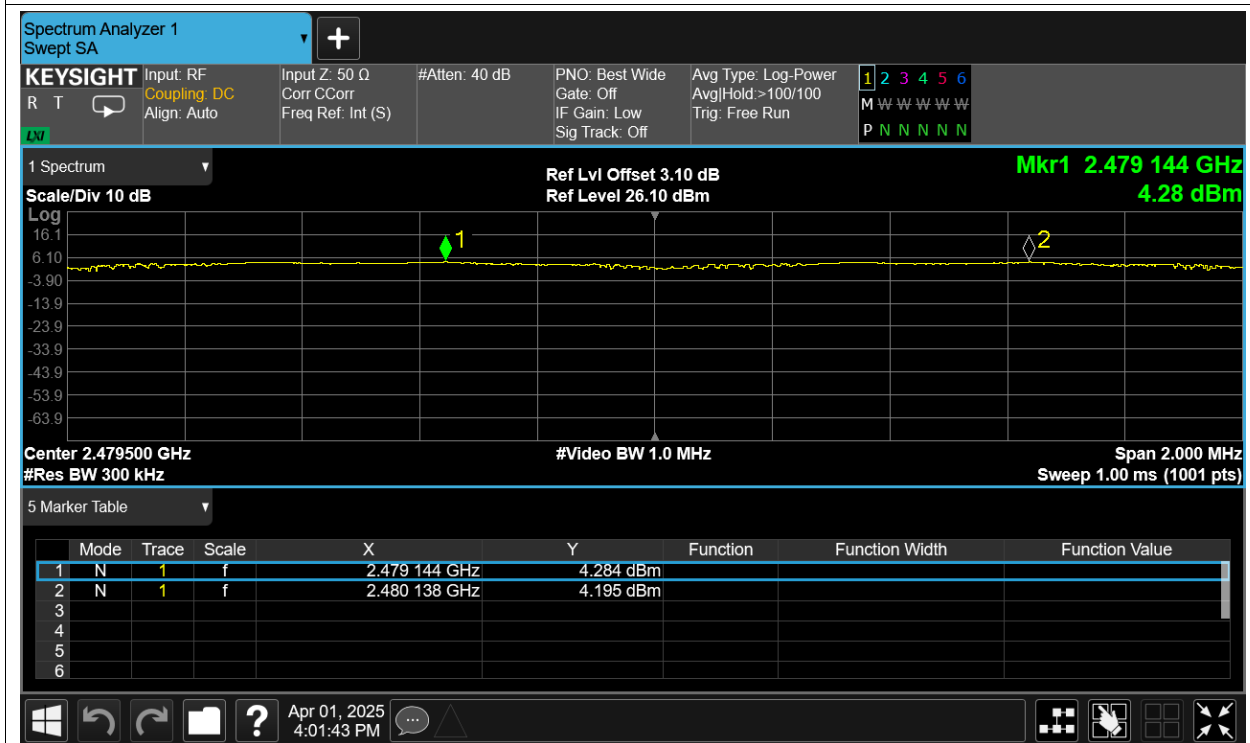
CFS NVNT 2-DH1 2402MHz Ant1



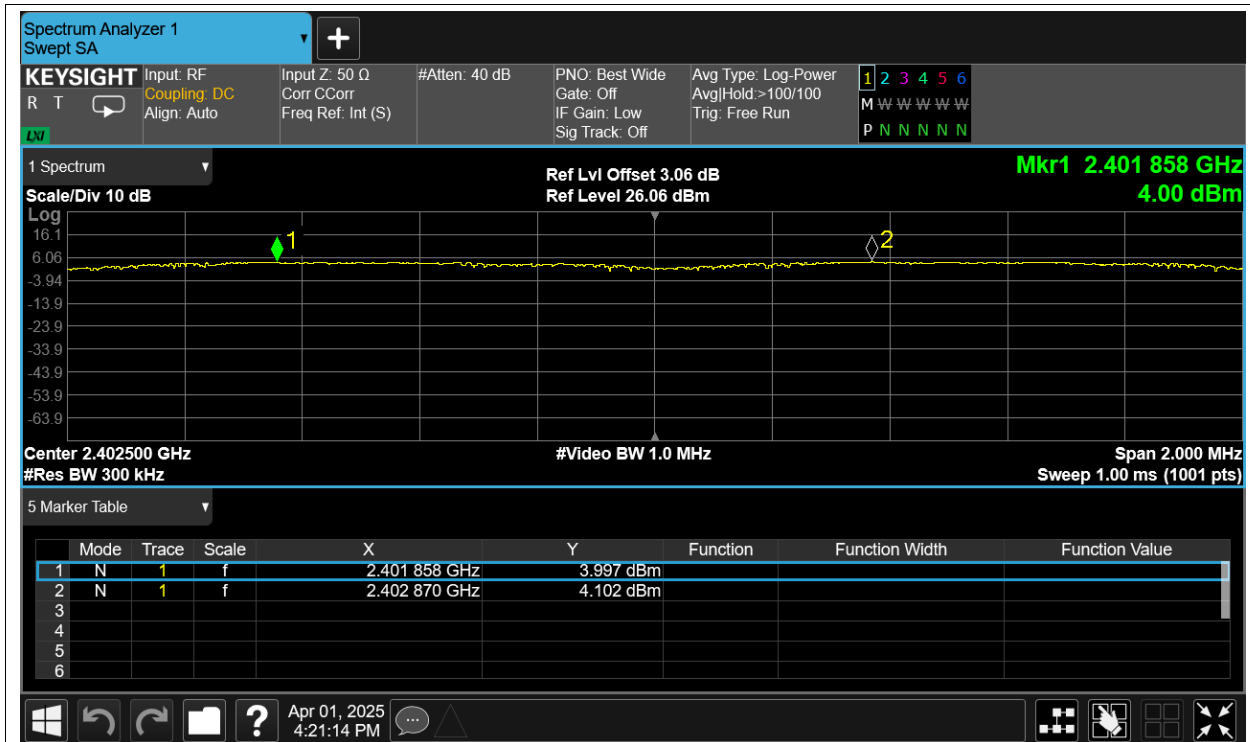
CFS NVNT 2-DH1 2441MHz Ant1



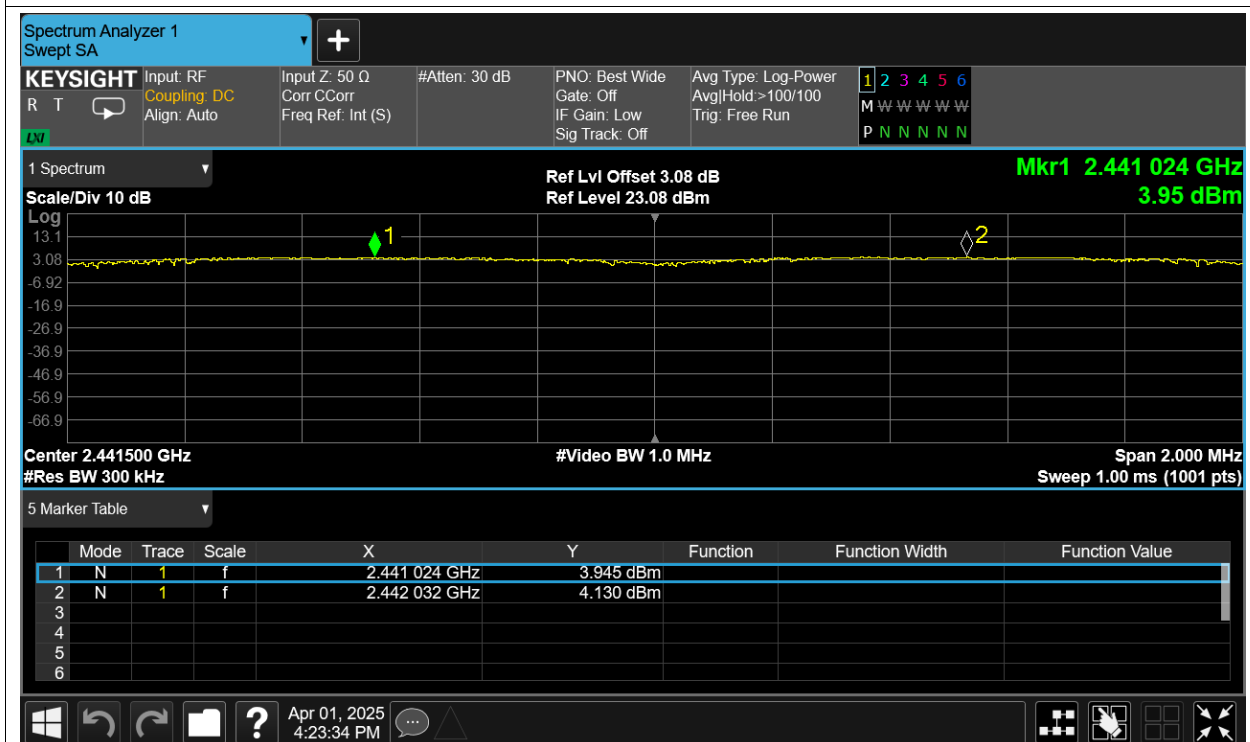
CFS NVNT 2-DH1 2480MHz Ant1



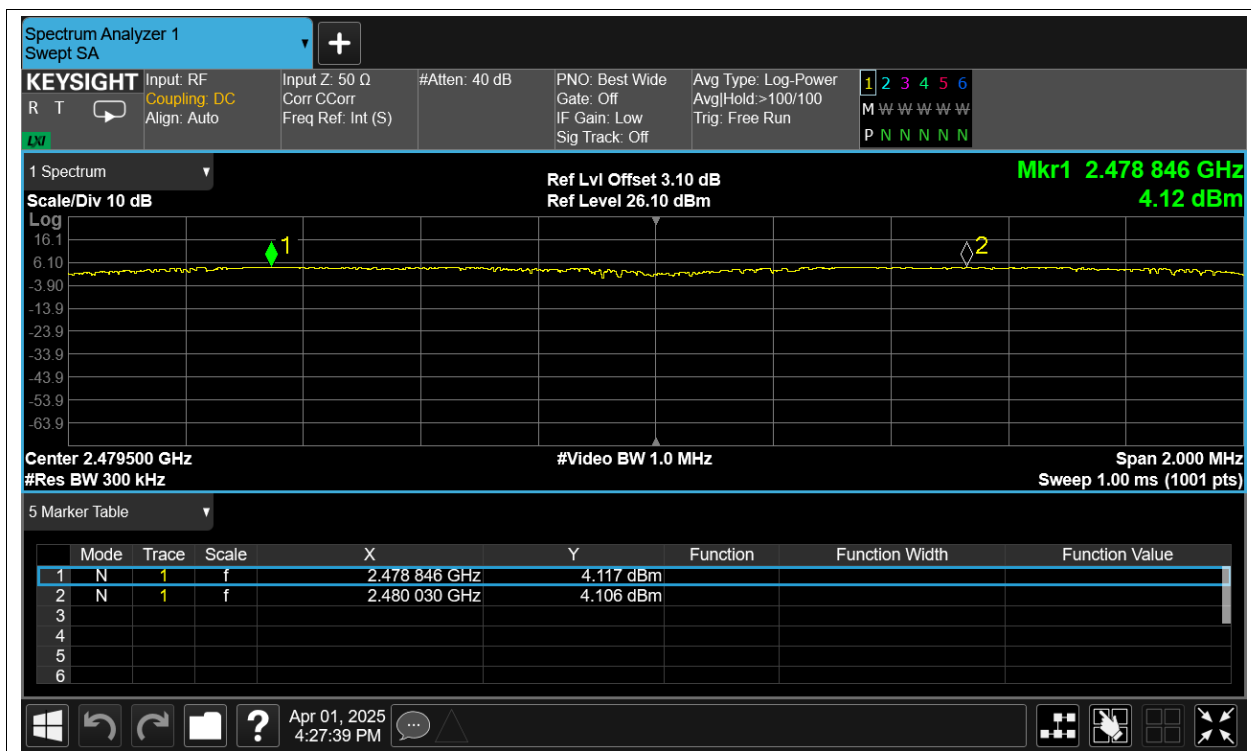
CFS NVNT 3-DH1 2402MHz Ant1



CFS NVNT 3-DH1 2441MHz Ant1



CFS NVNT 3-DH1 2480MHz Ant1

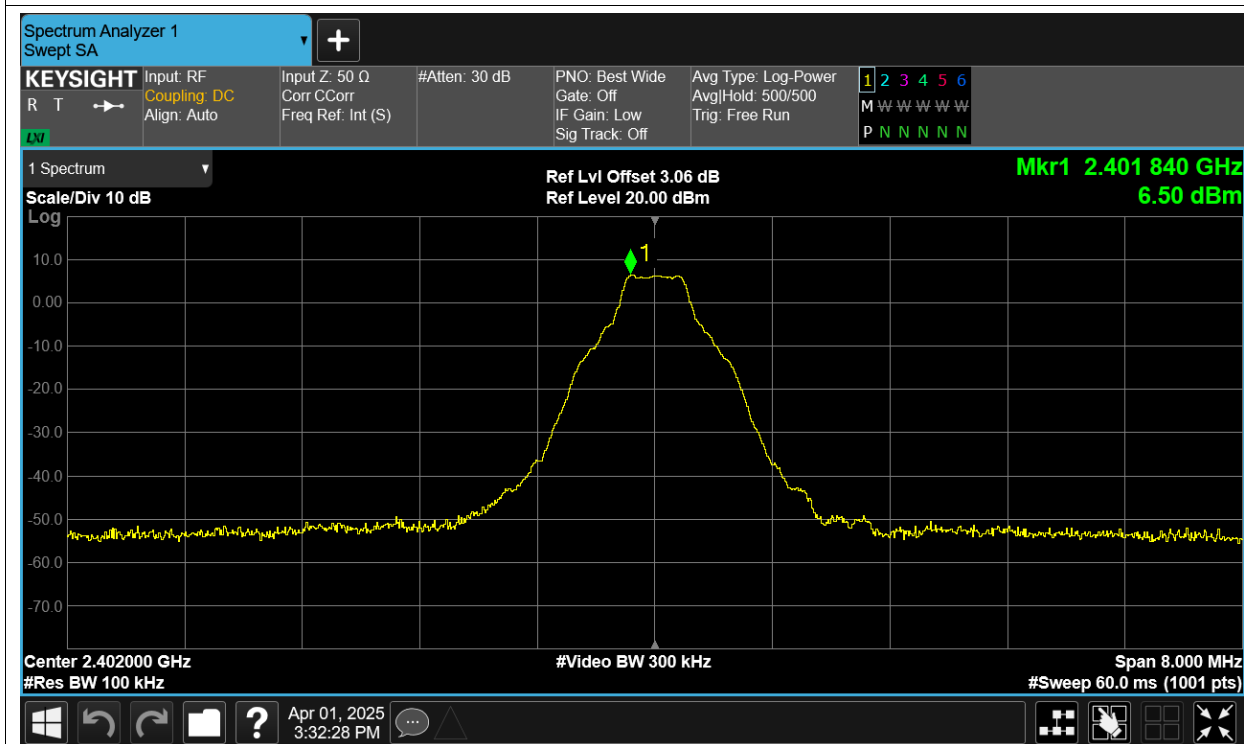


Band Edge

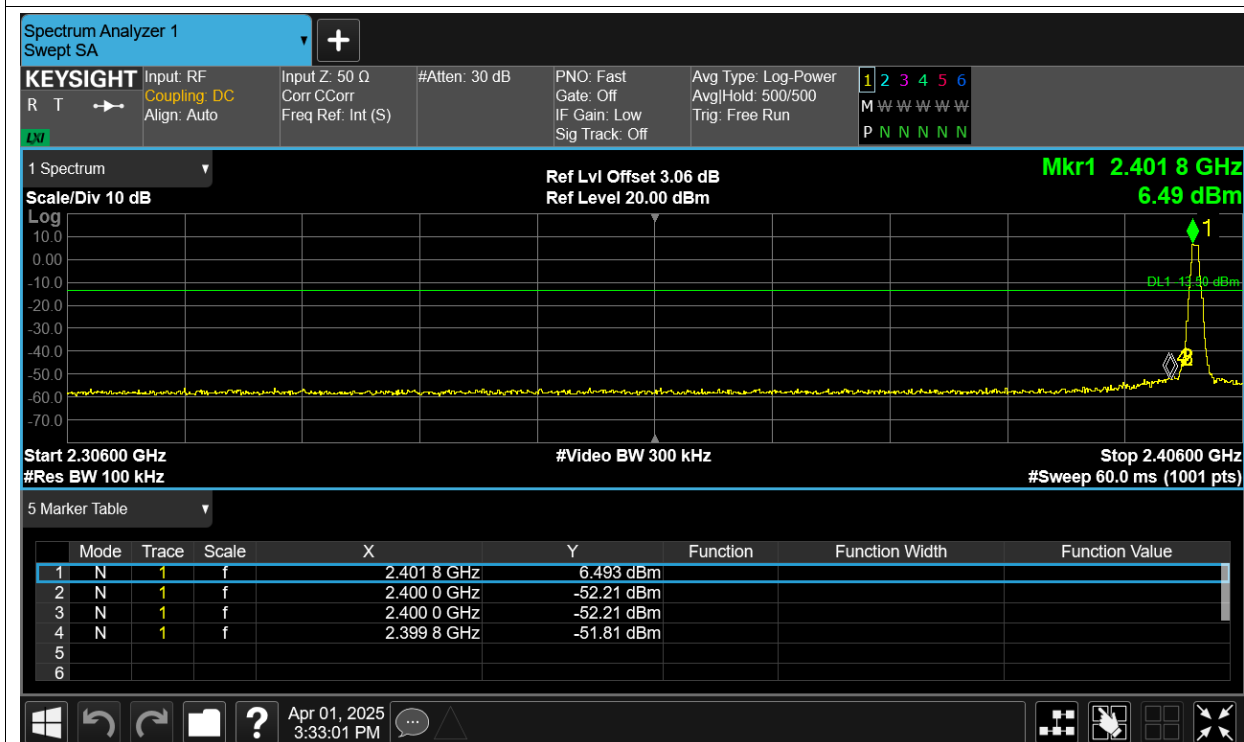
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-58.31	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-59.14	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-50.16	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-58.21	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-51.56	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-59.21	-20	Pass

Test Graphs

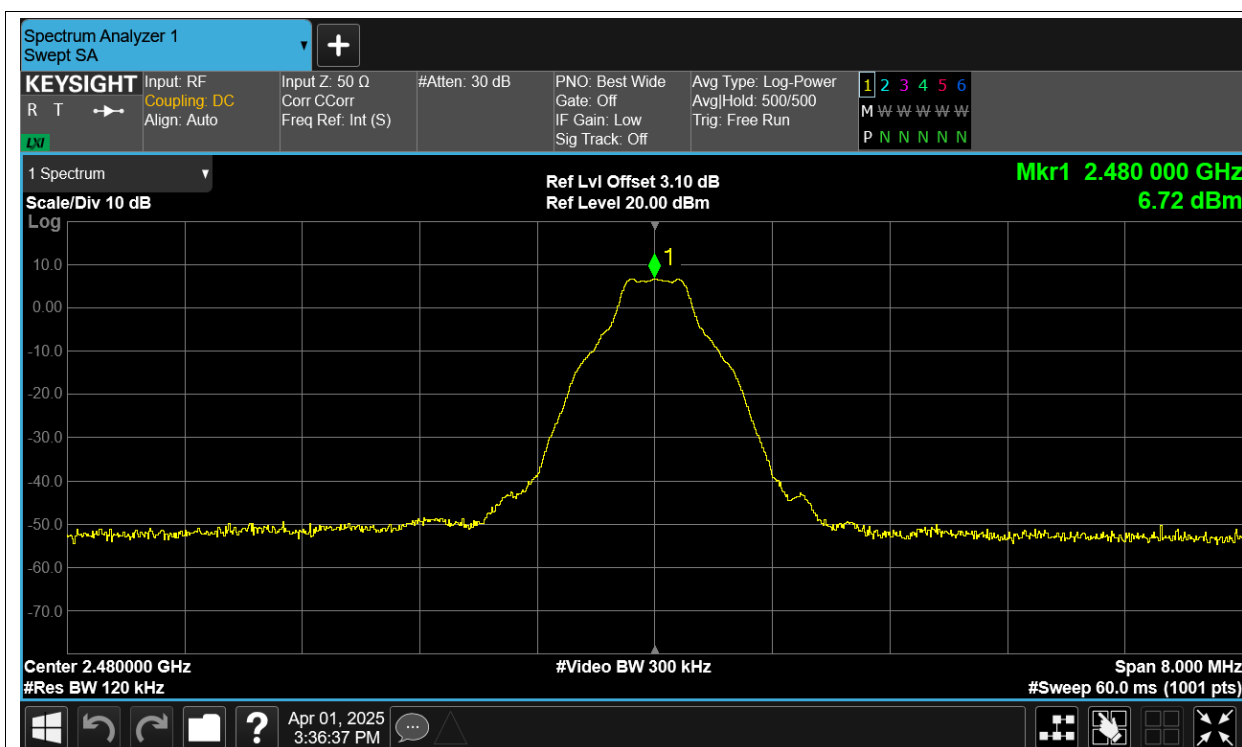
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



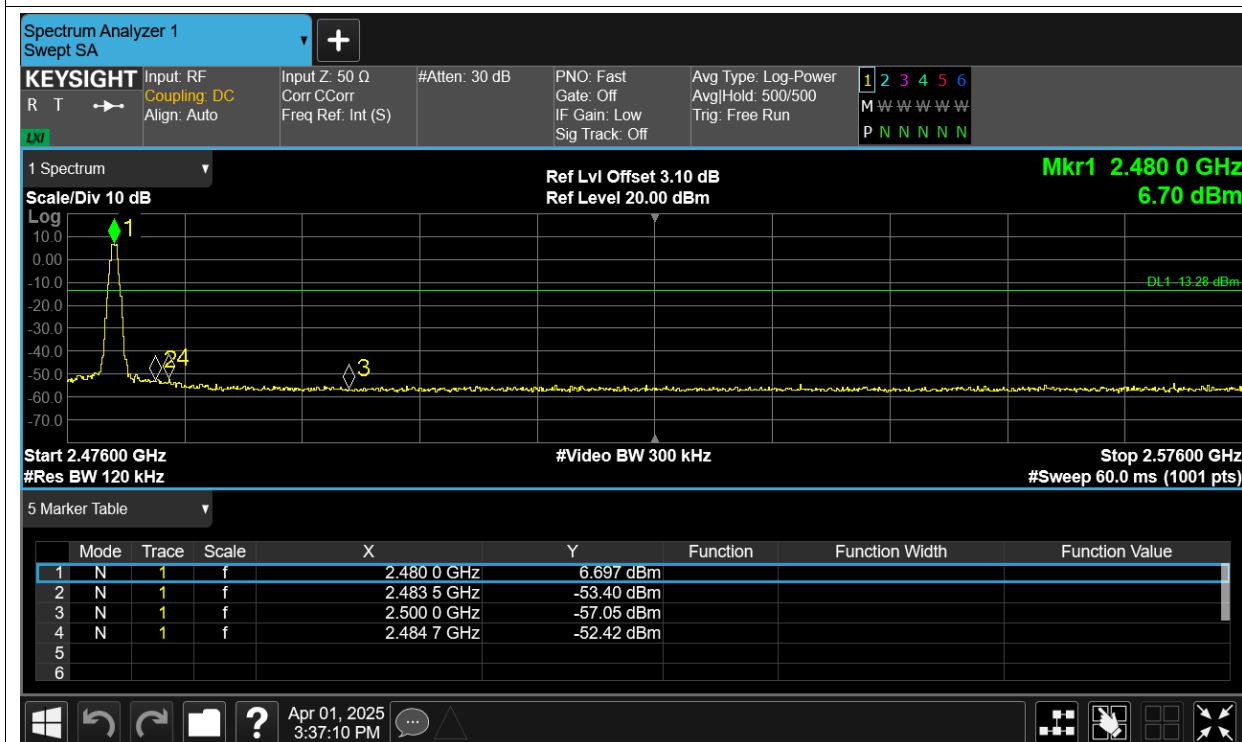
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



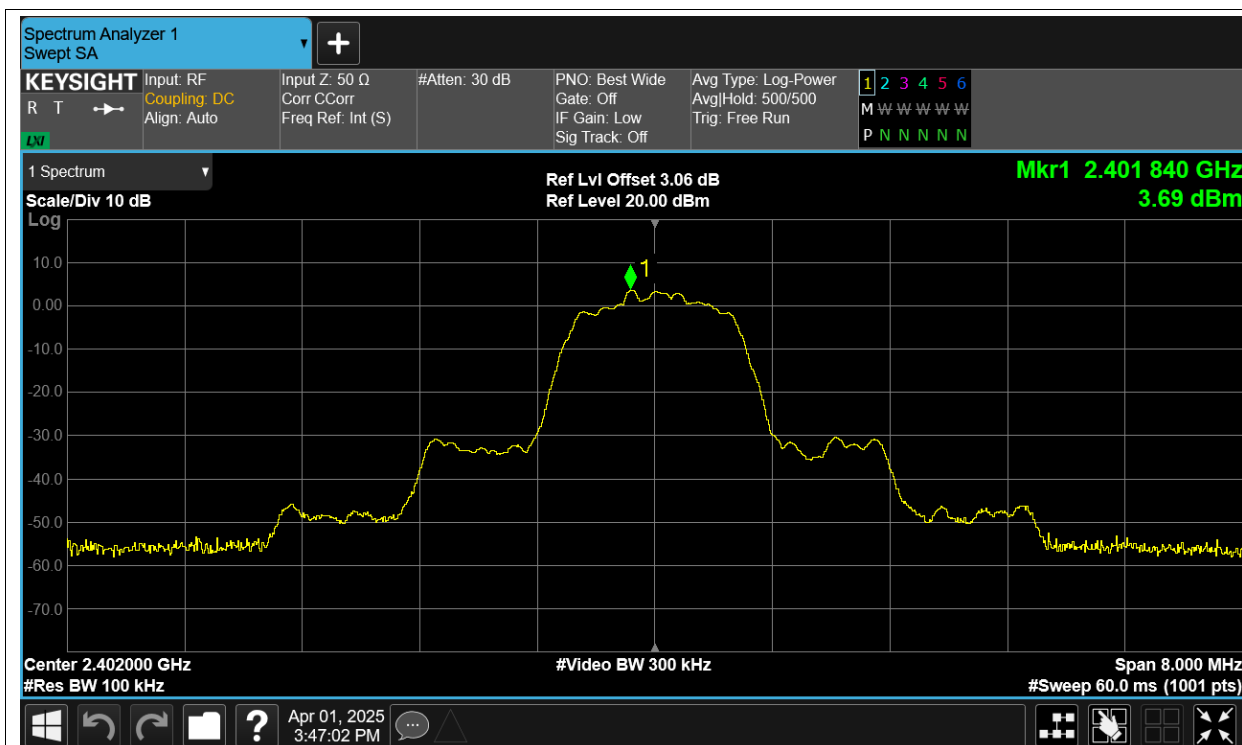
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



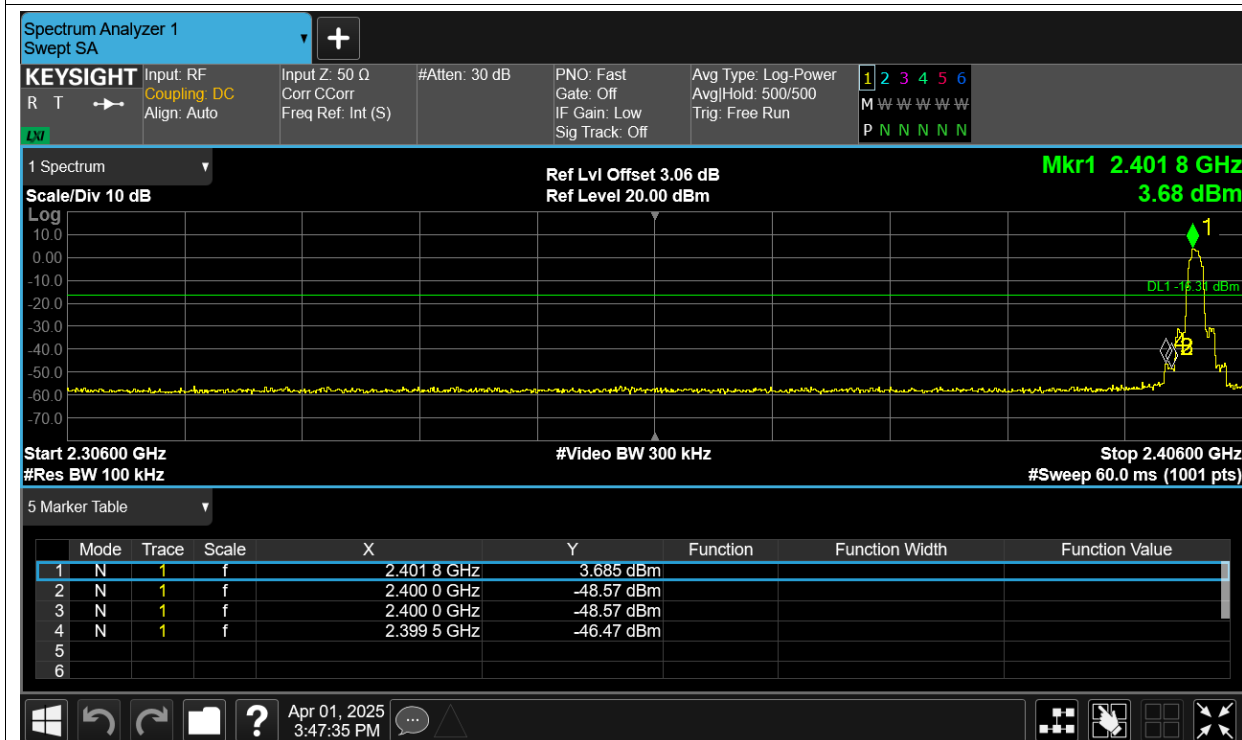
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



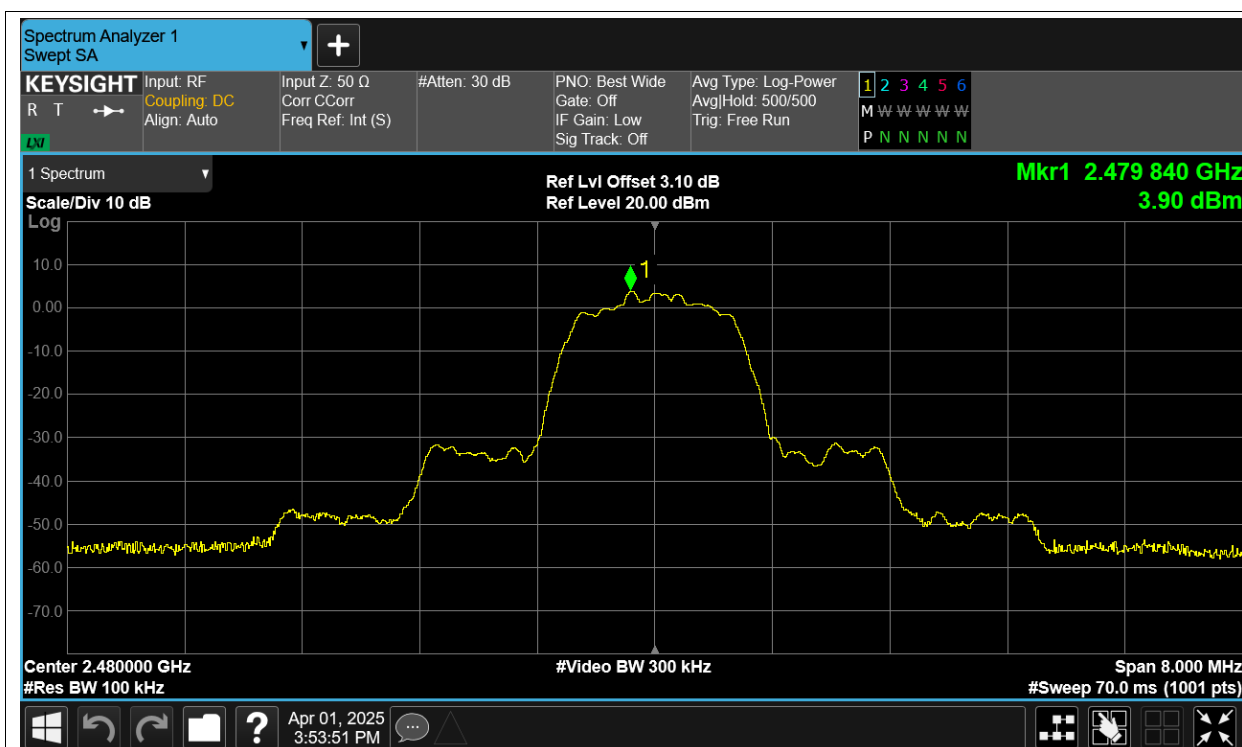
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



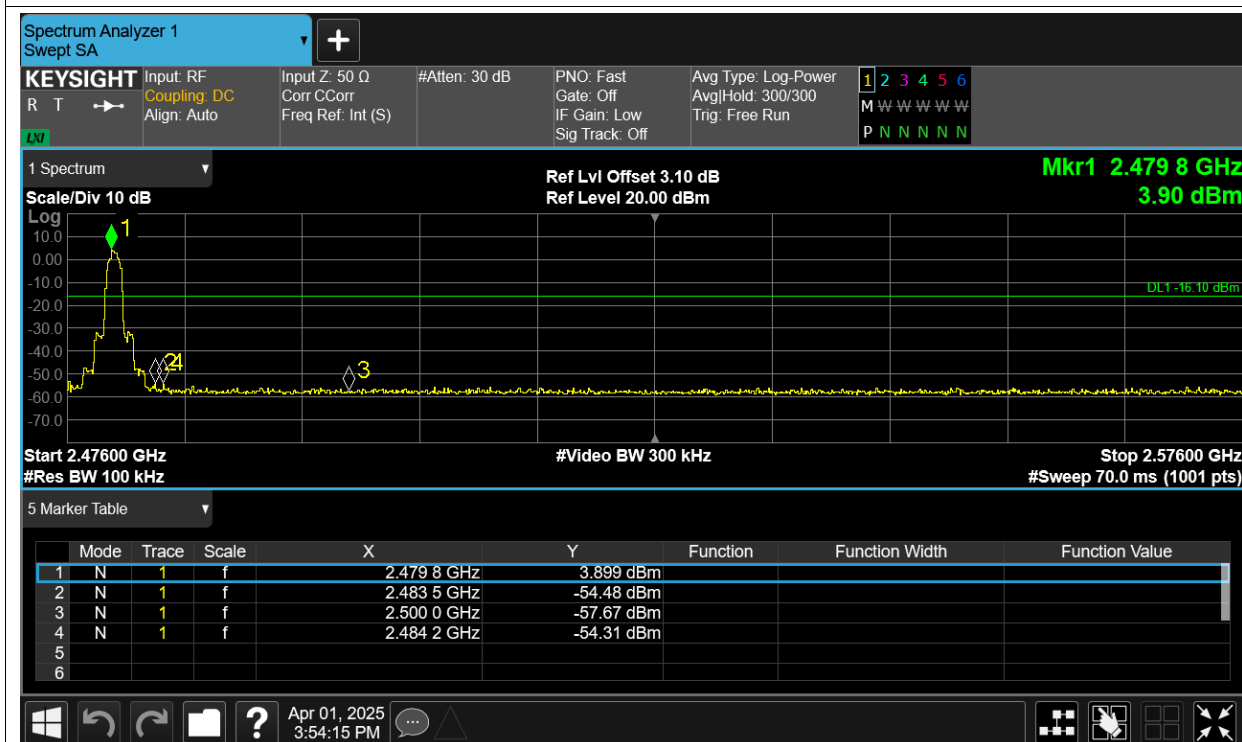
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



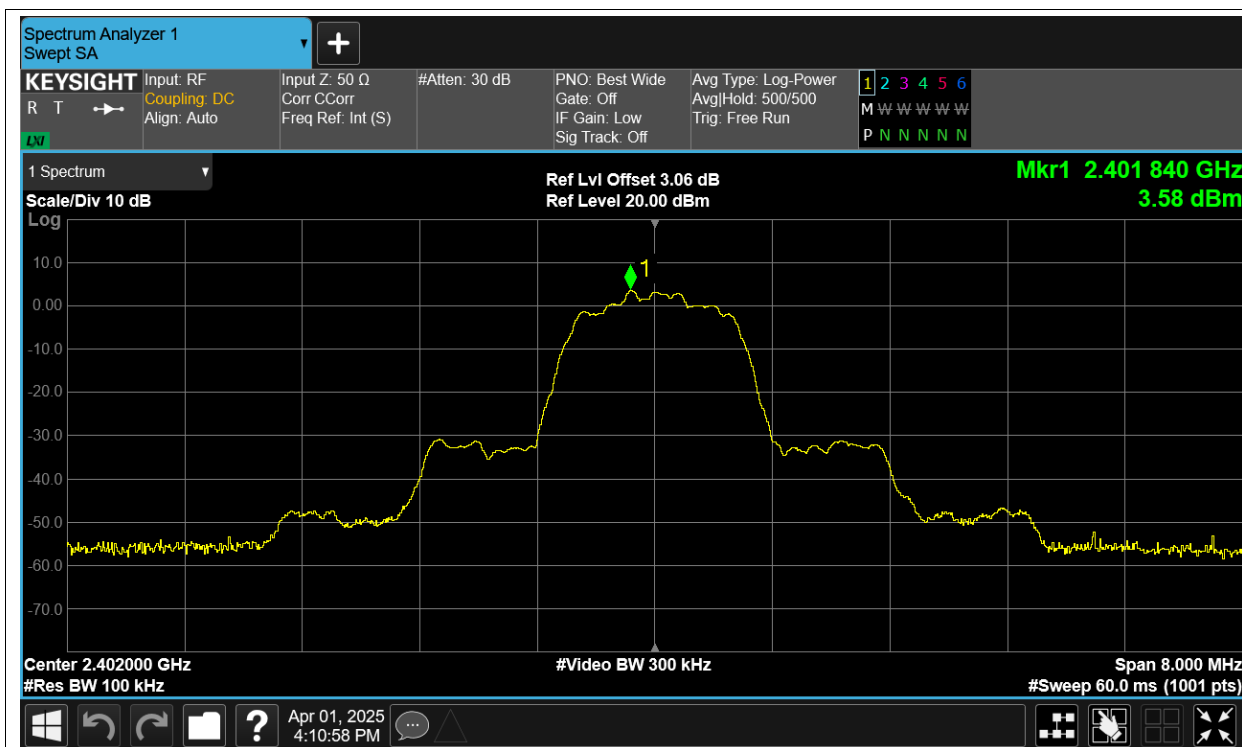
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



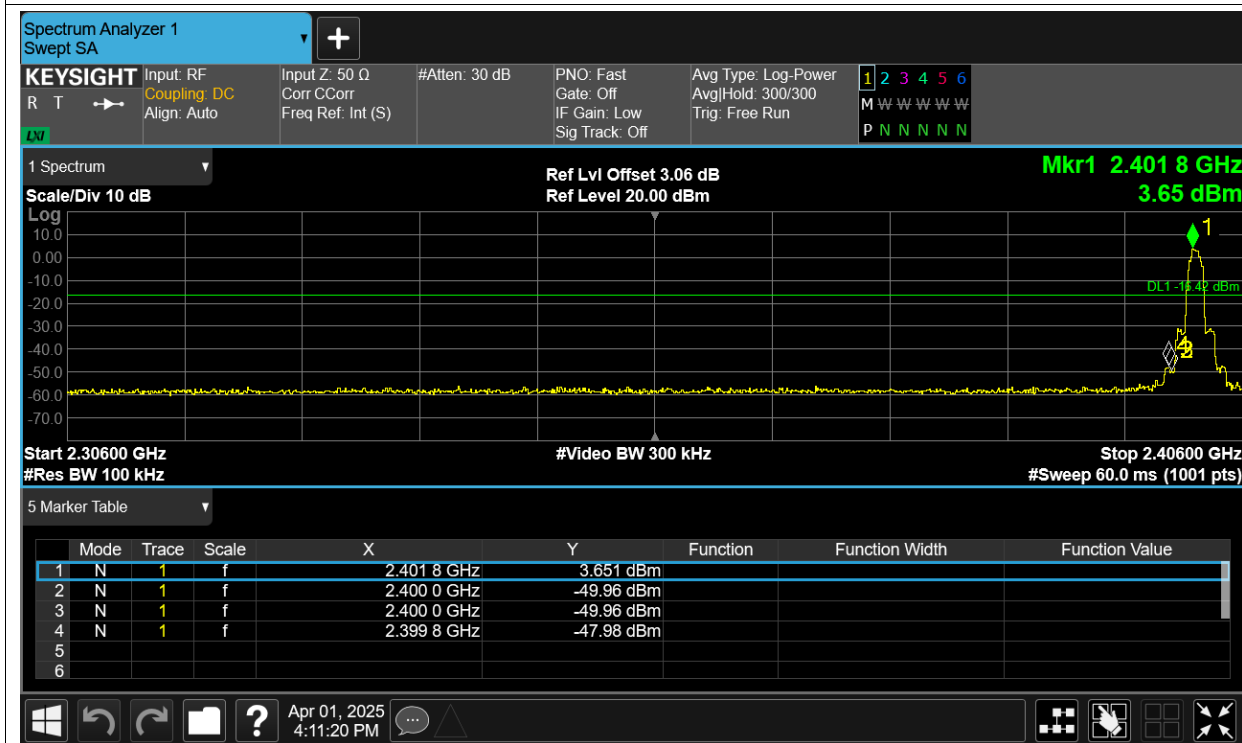
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



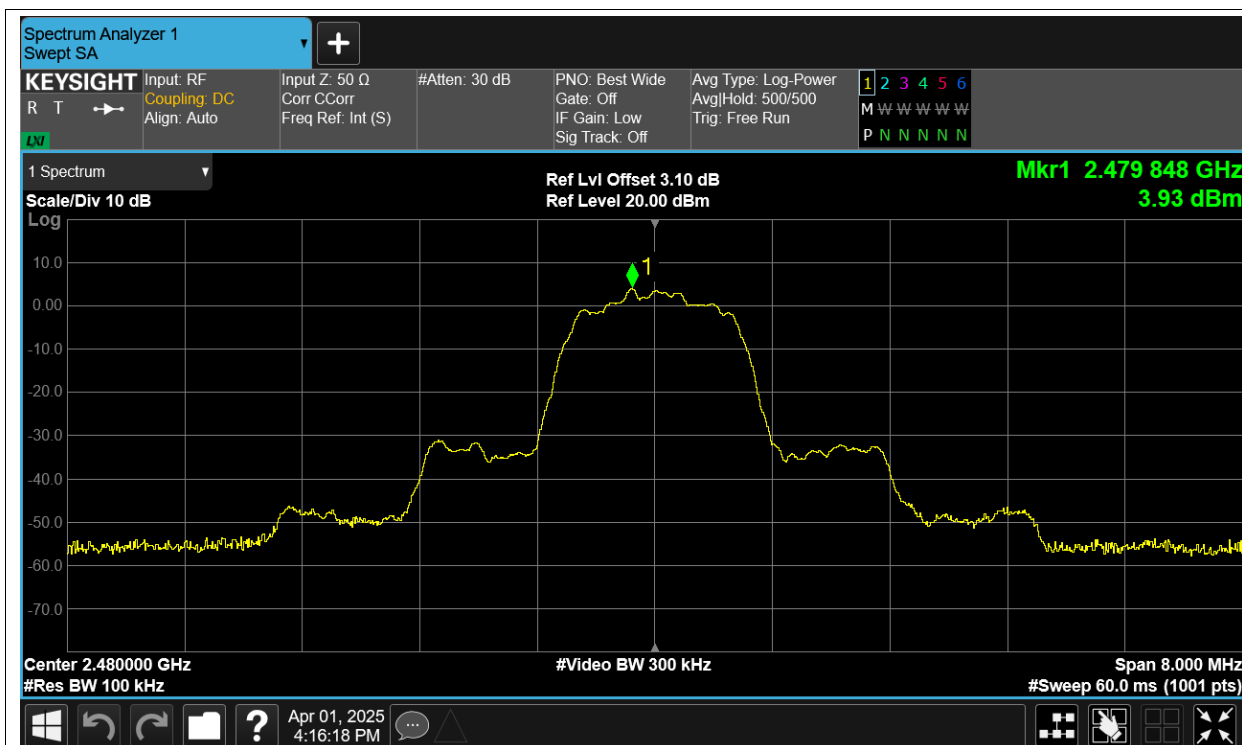
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



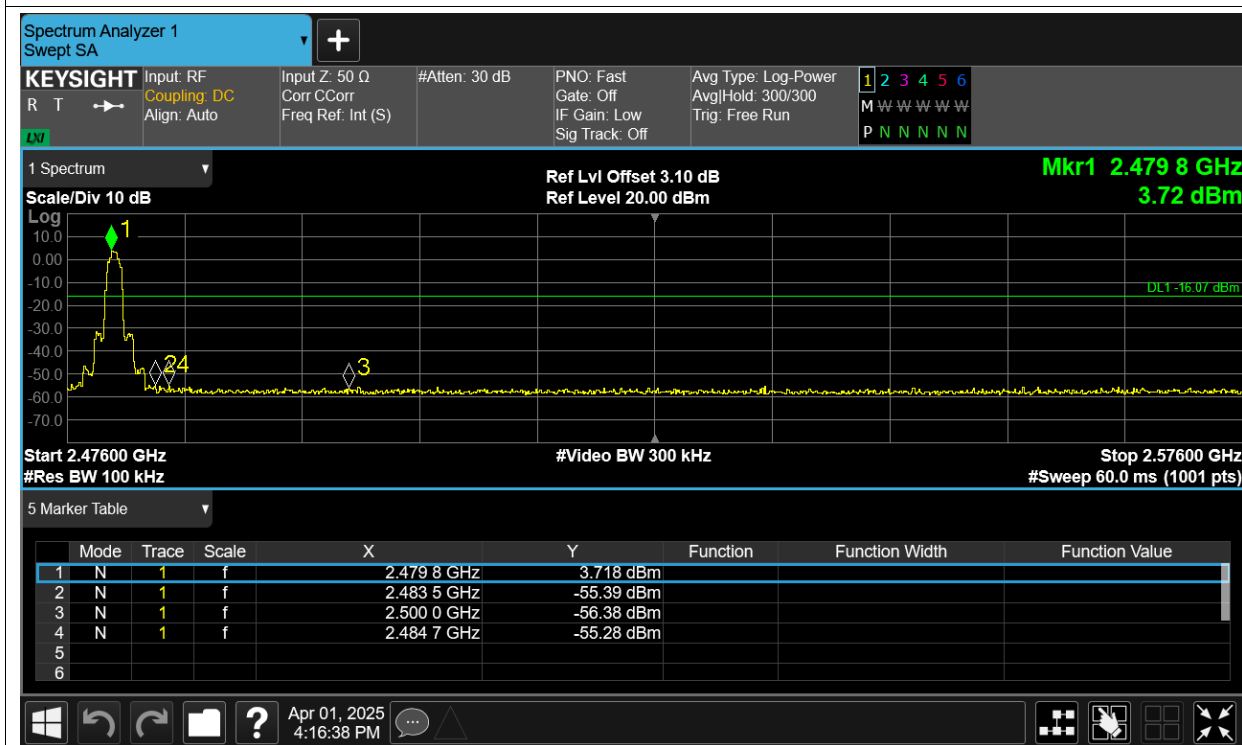
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

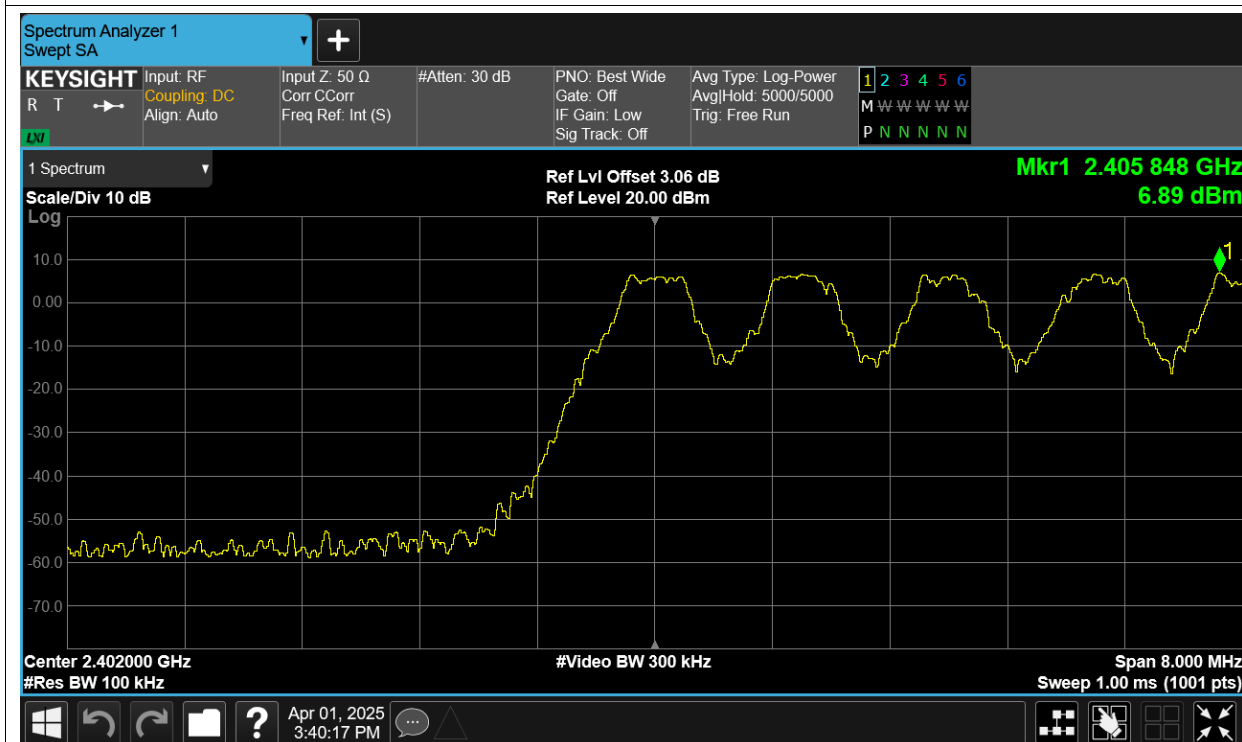


Band Edge(Hopping)

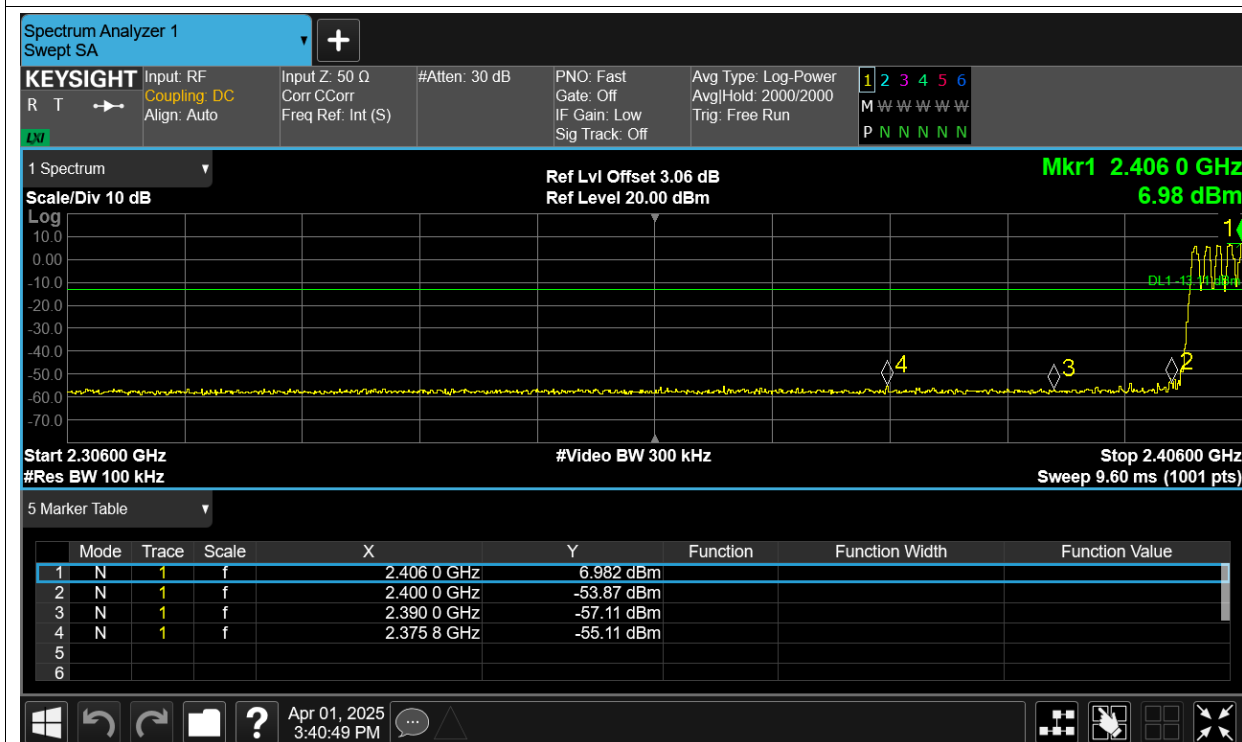
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-62	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-62.21	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-59.77	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-59.54	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-59.72	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-58.88	-20	Pass

Test Graphs

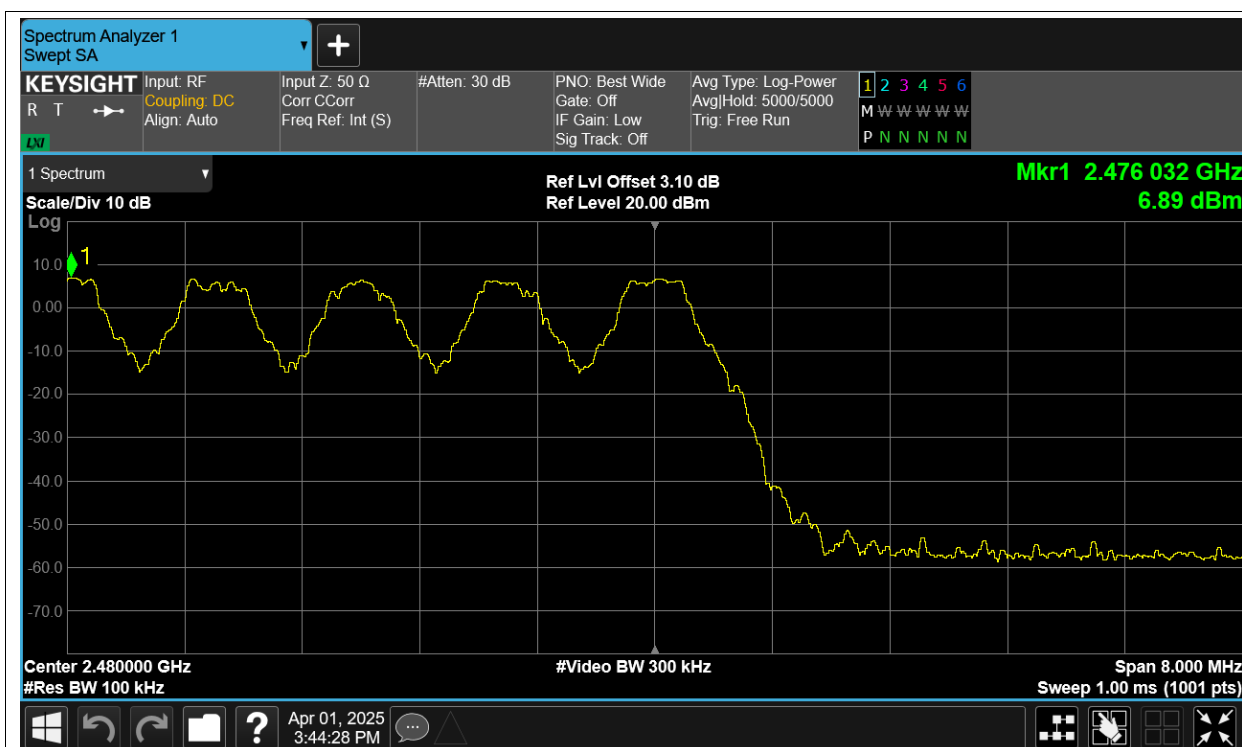
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



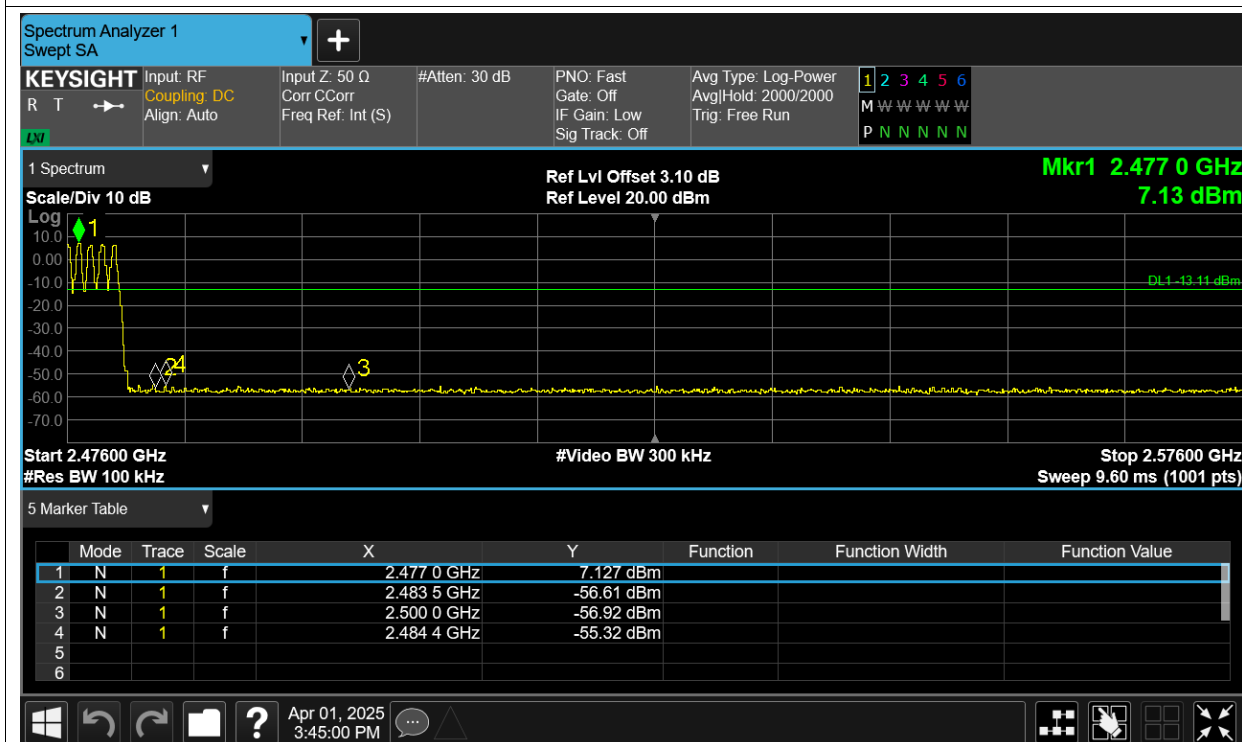
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



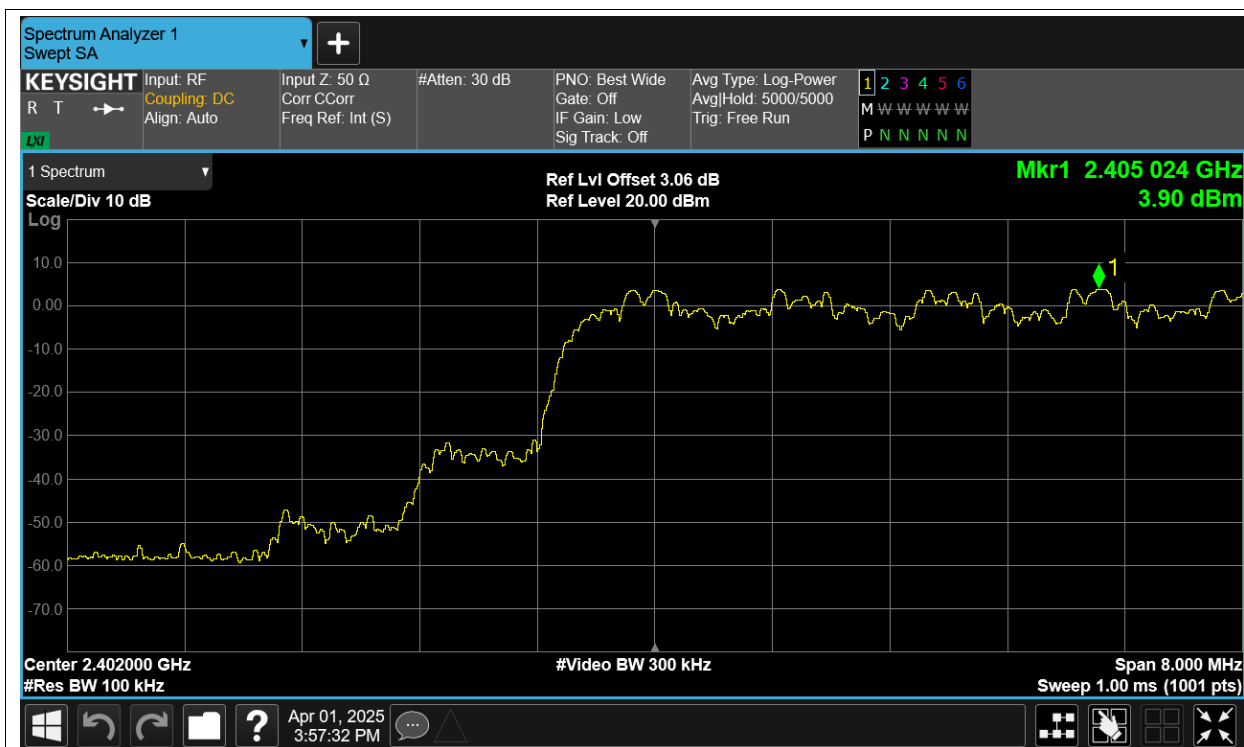
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



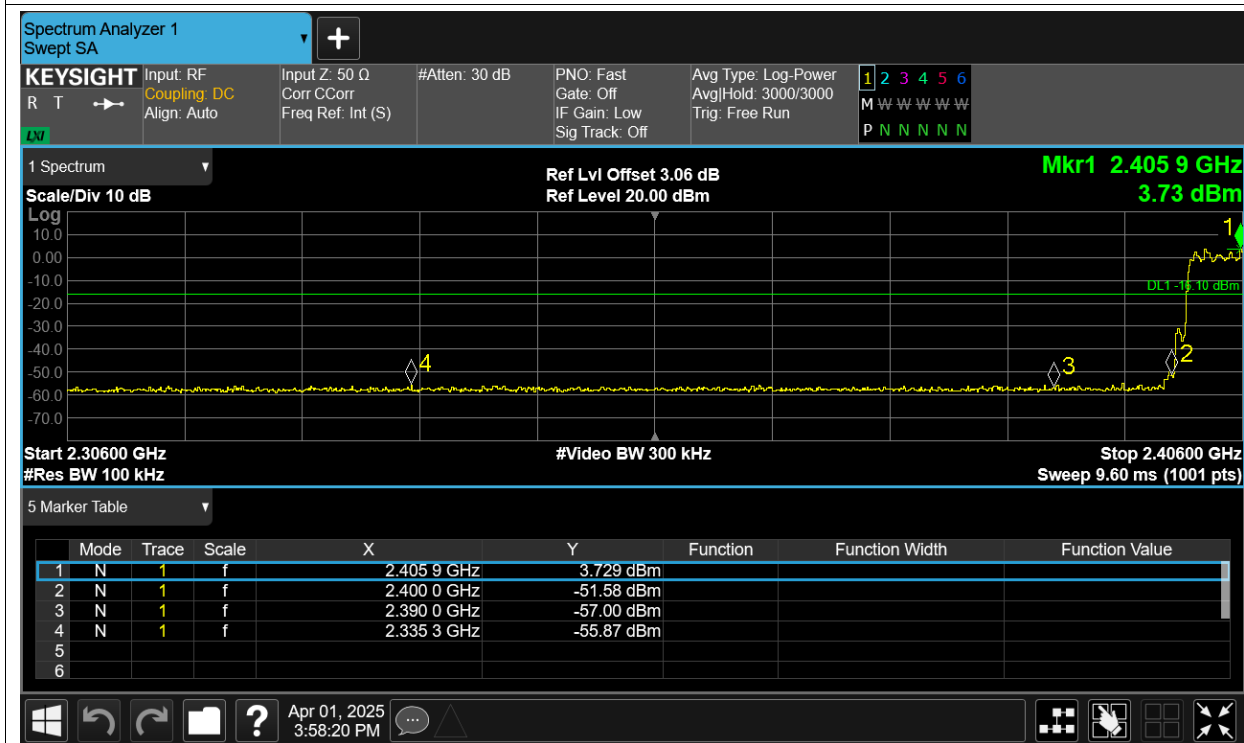
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



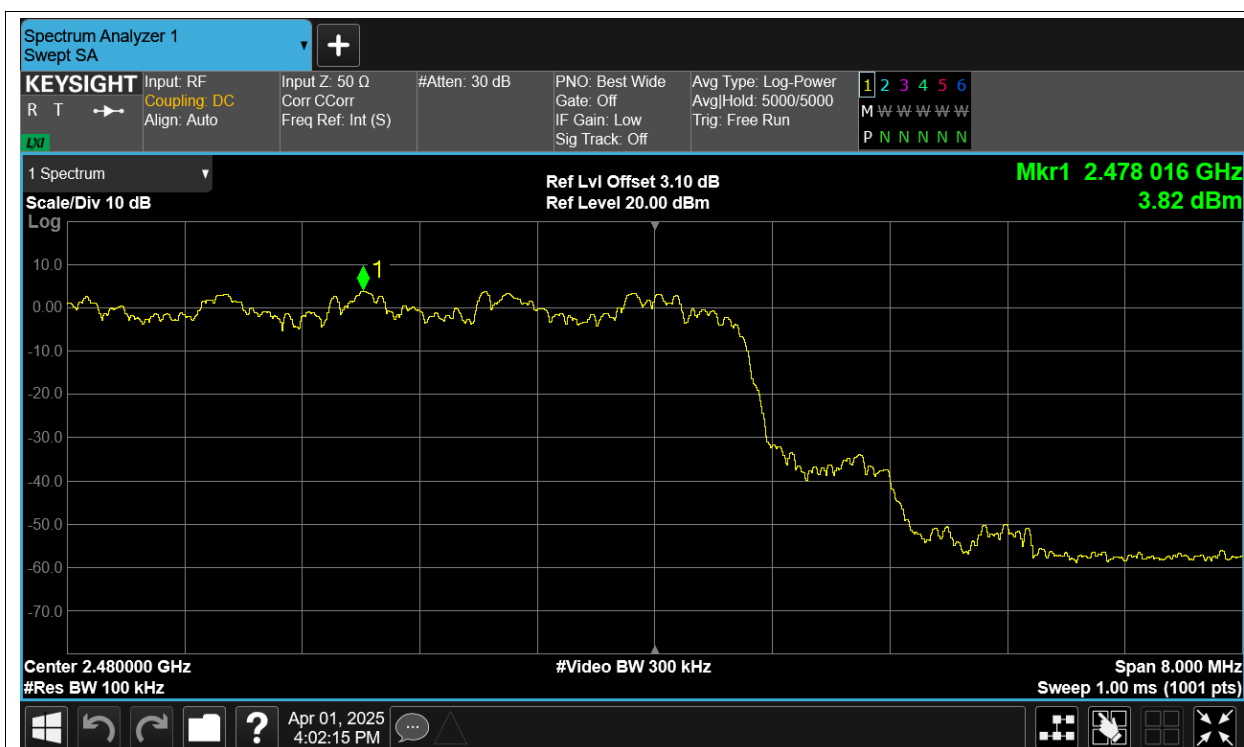
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



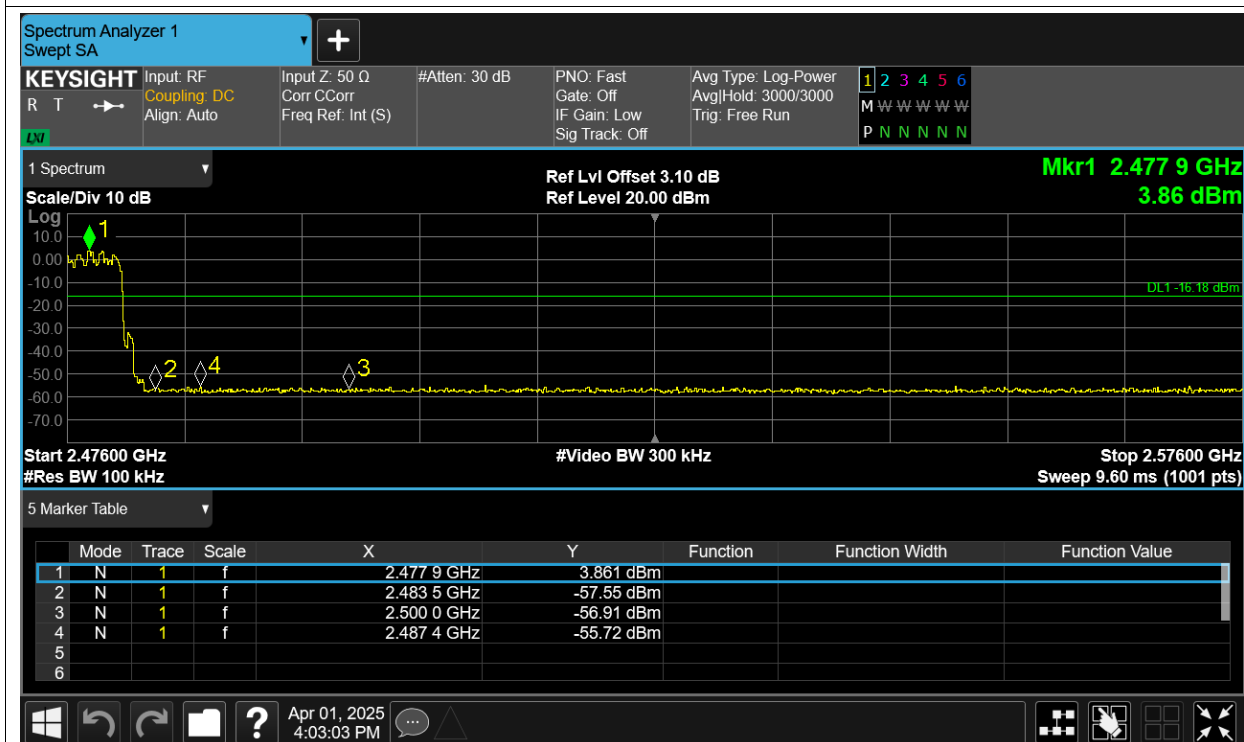
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



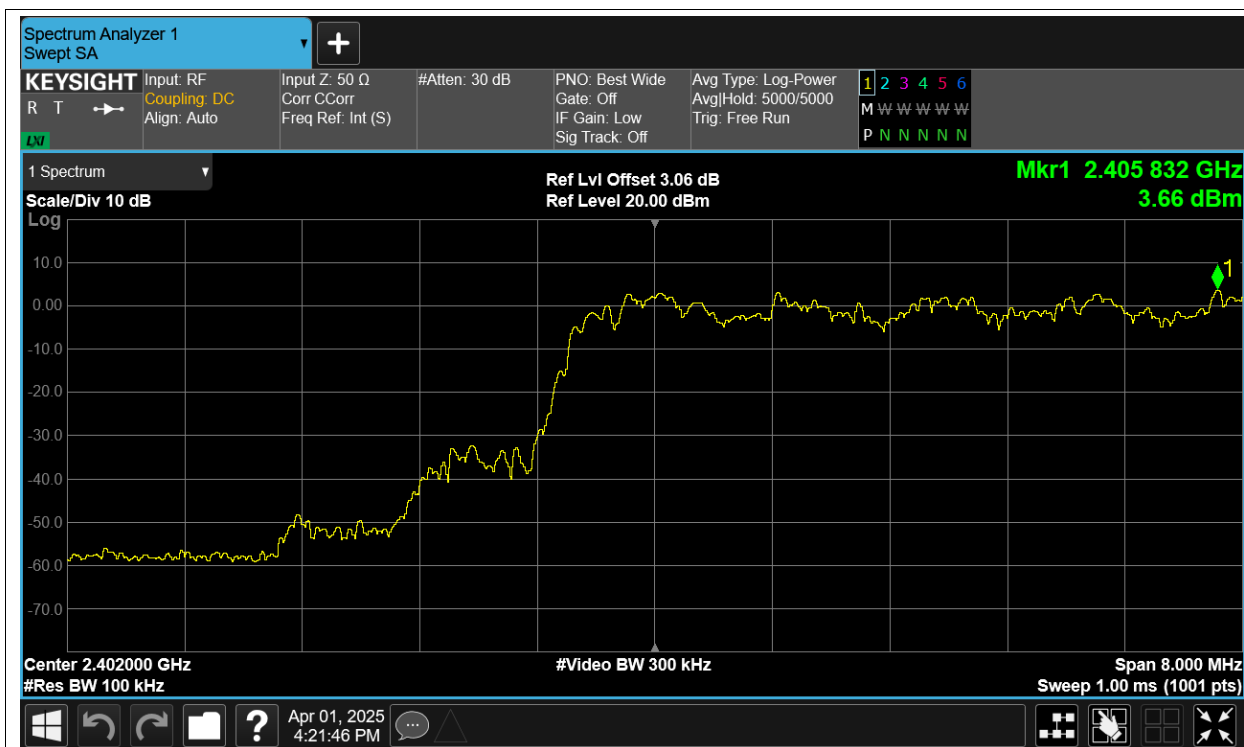
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



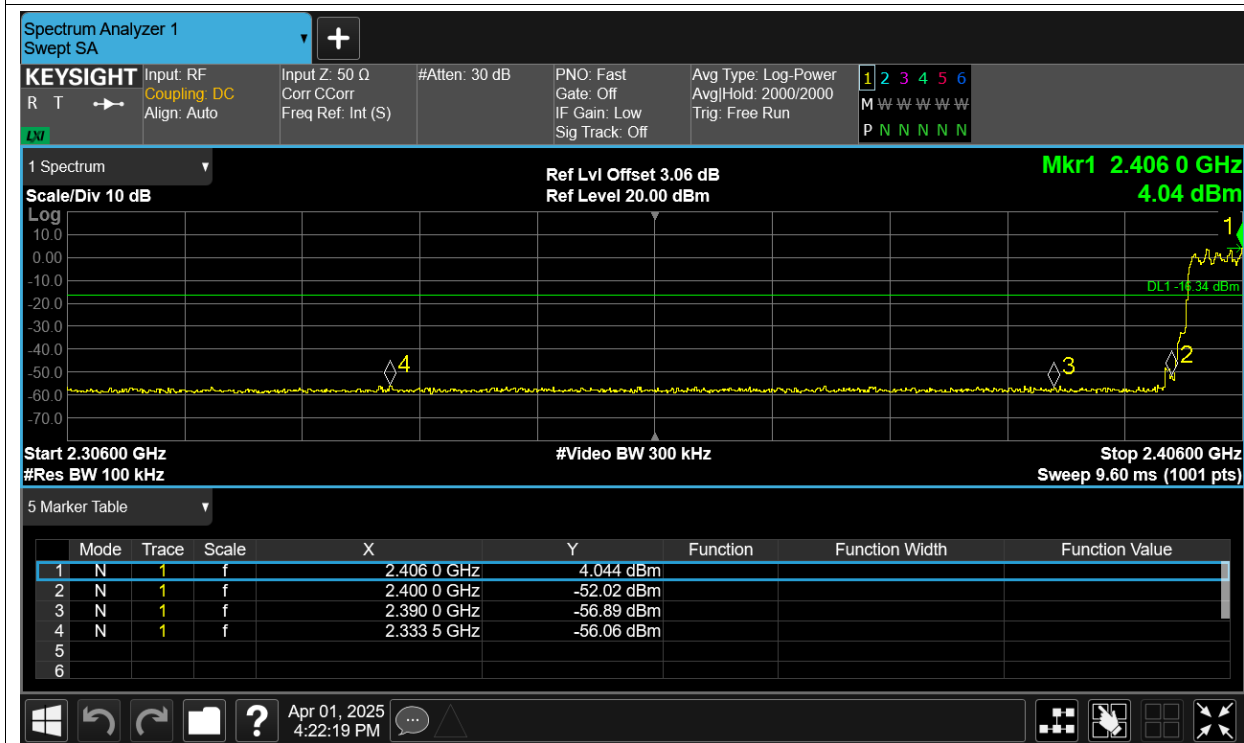
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



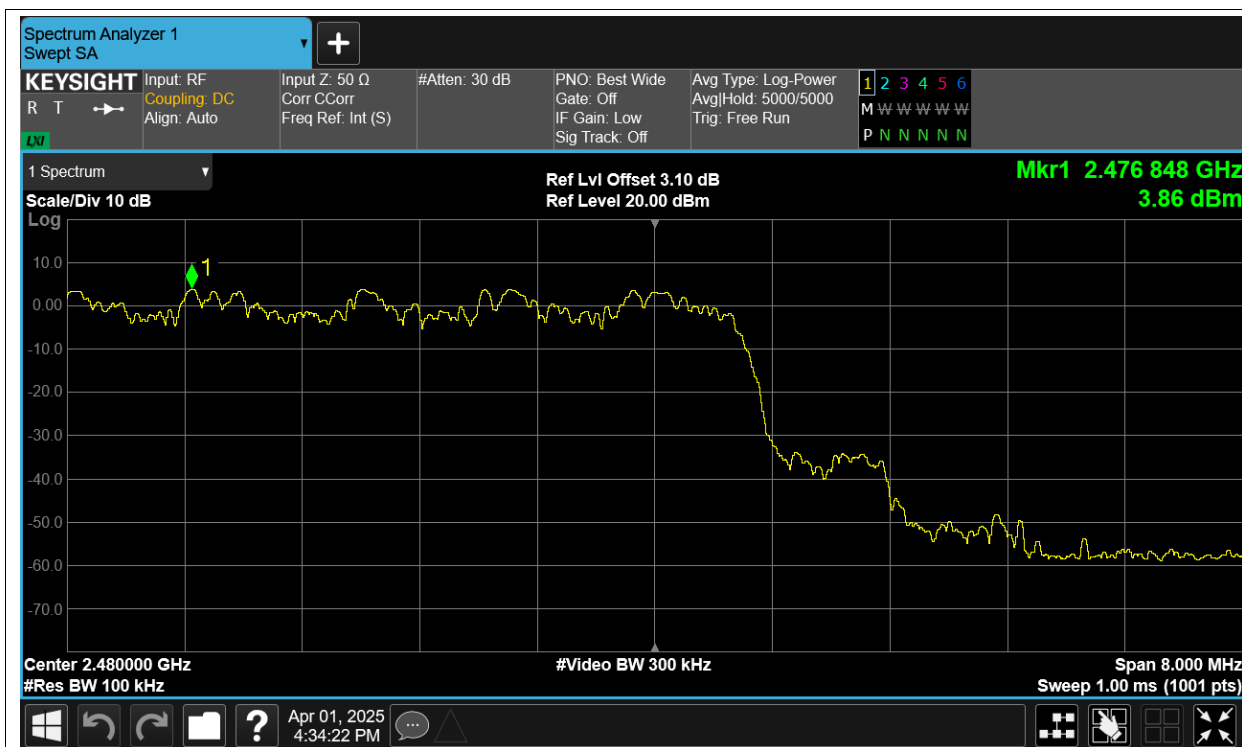
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



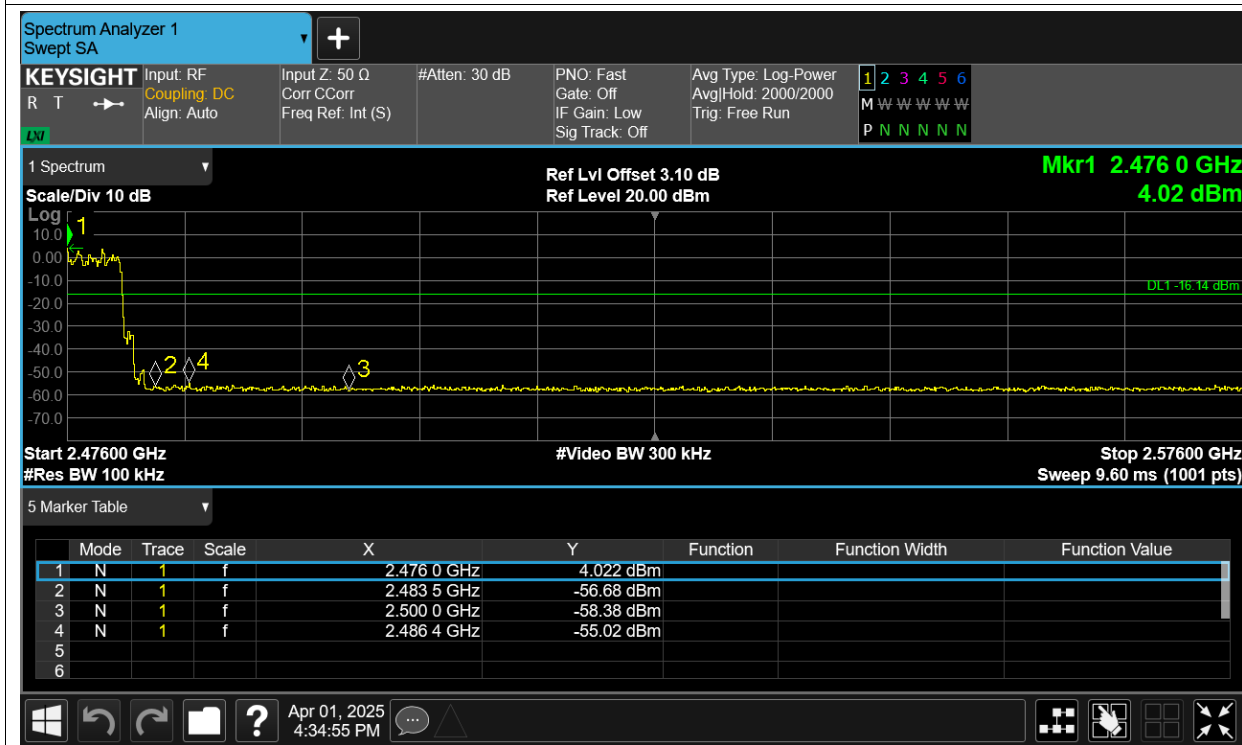
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

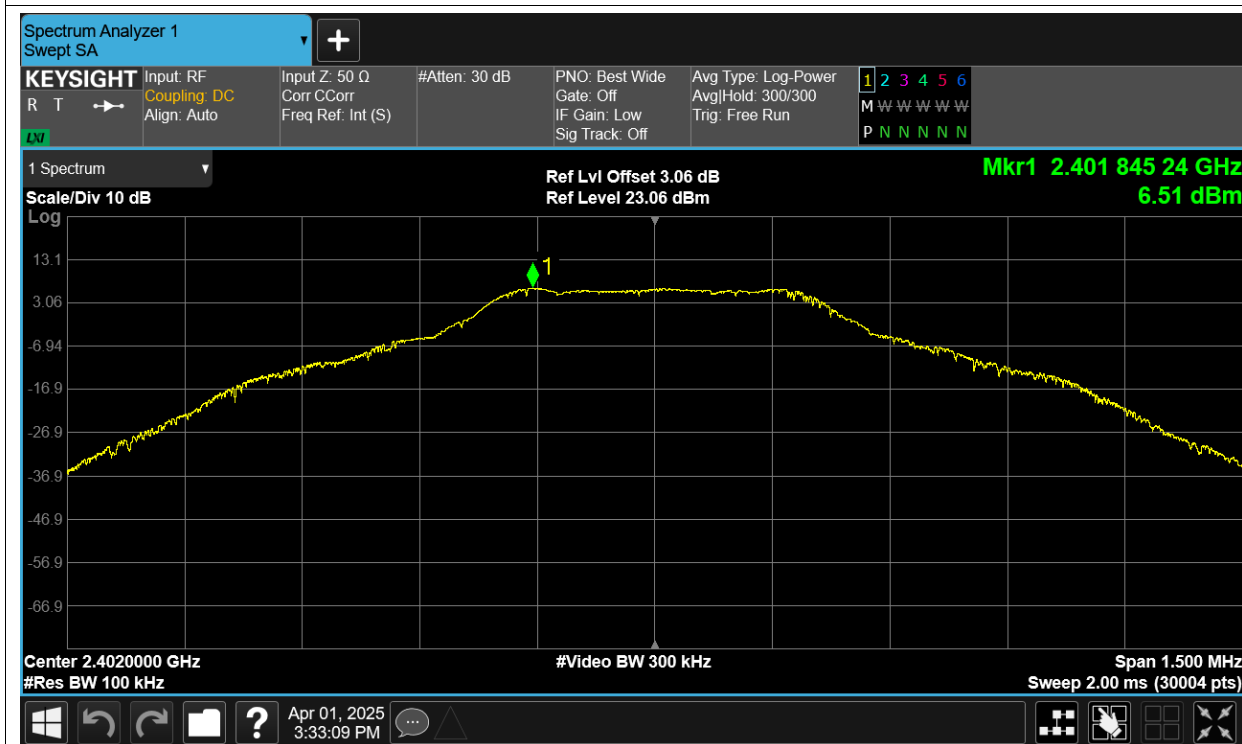


Conducted RF Spurious Emission

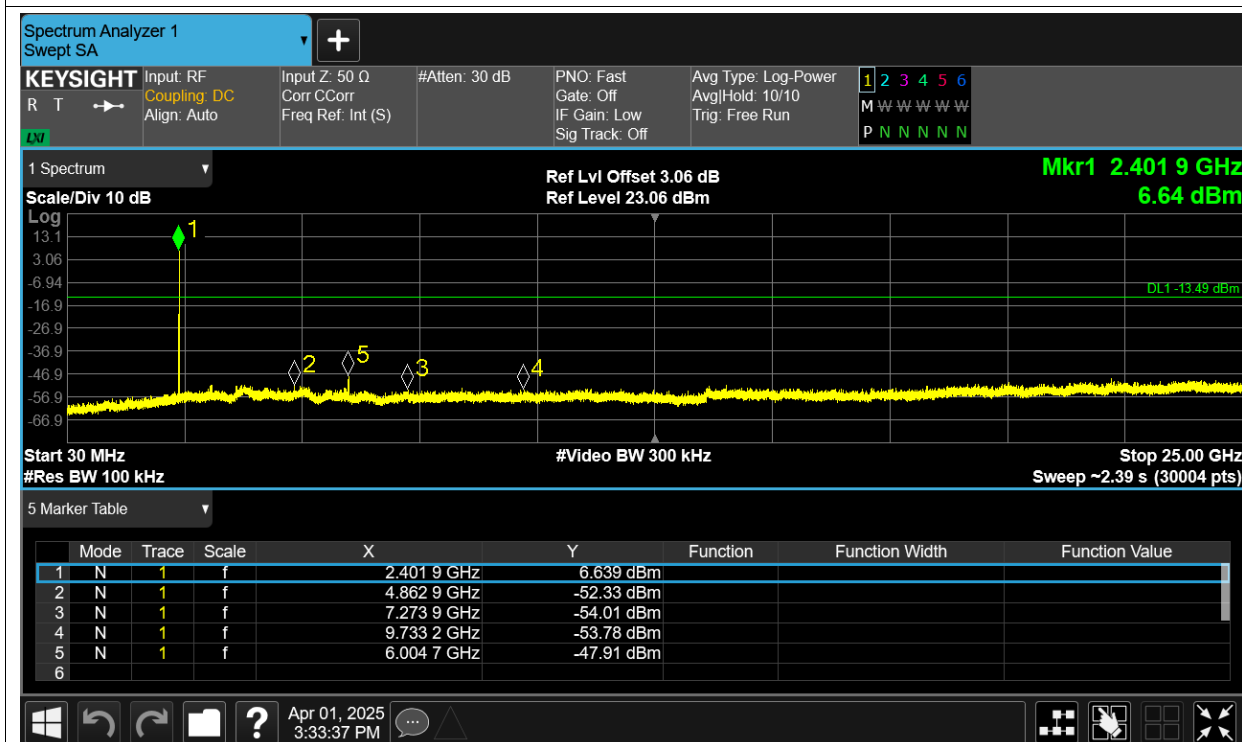
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-54.42	-20	Pass
NVNT	1-DH1	2441	Ant1	-55.72	-20	Pass
NVNT	1-DH1	2480	Ant1	-55.16	-20	Pass
NVNT	2-DH1	2402	Ant1	-49.79	-20	Pass
NVNT	2-DH1	2441	Ant1	-50.72	-20	Pass
NVNT	2-DH1	2480	Ant1	-51.25	-20	Pass
NVNT	3-DH1	2402	Ant1	-50.37	-20	Pass
NVNT	3-DH1	2441	Ant1	-51.29	-20	Pass
NVNT	3-DH1	2480	Ant1	-52.1	-20	Pass
Remark: 1. Rel Lvl Offset=External cable loss + Internal loss(Internal cable loss+ RF Control Unit loss+ Power Detector Box loss) 2. Internal loss: It varies with the test frequency.						

Test Graphs

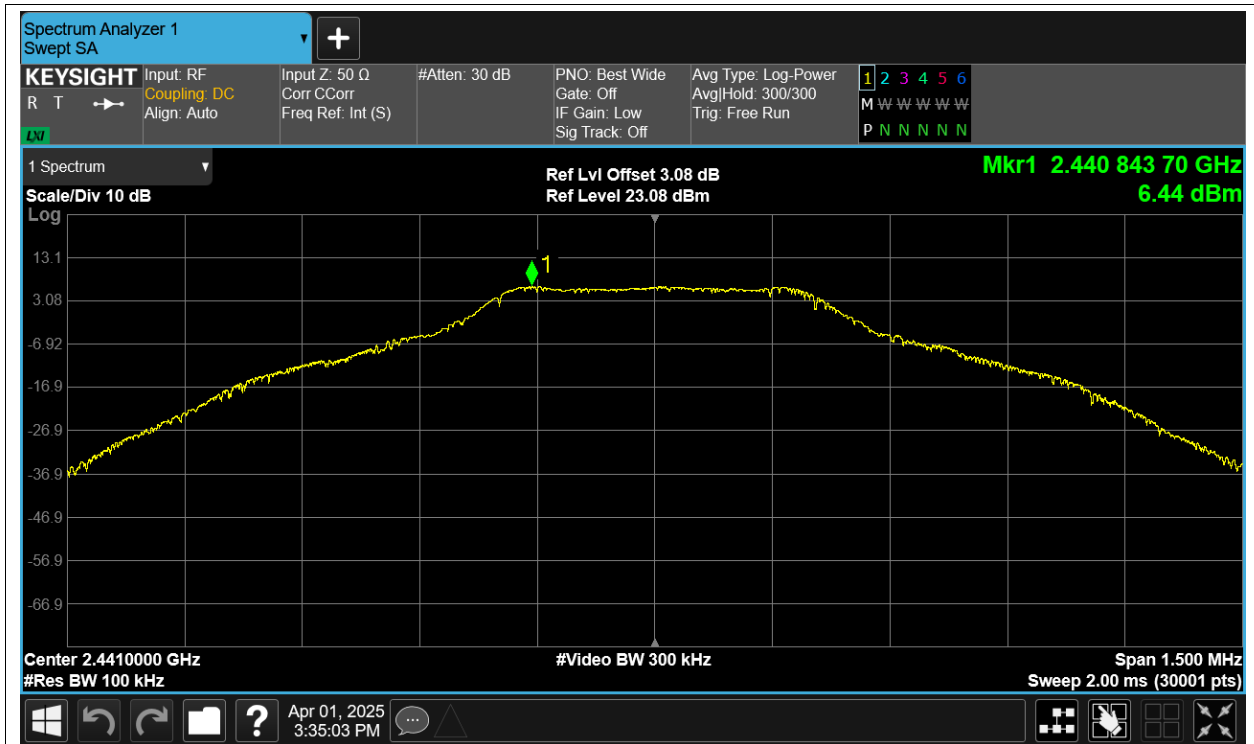
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



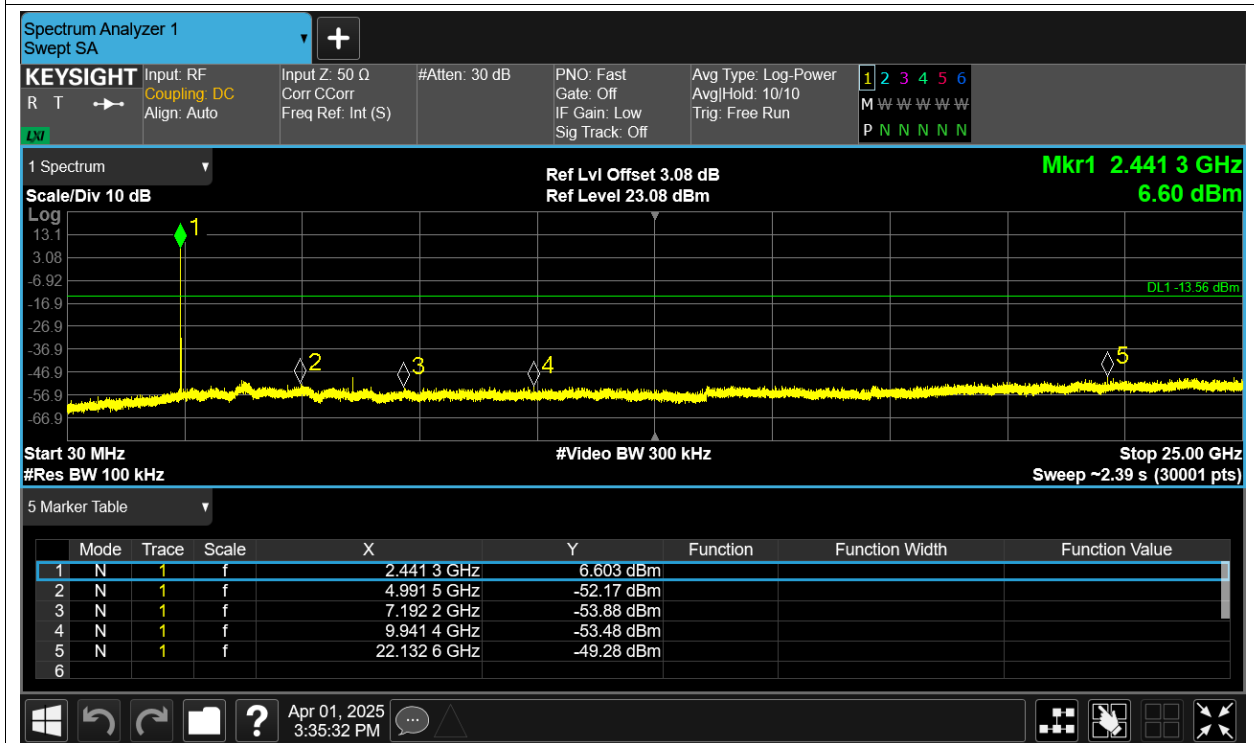
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



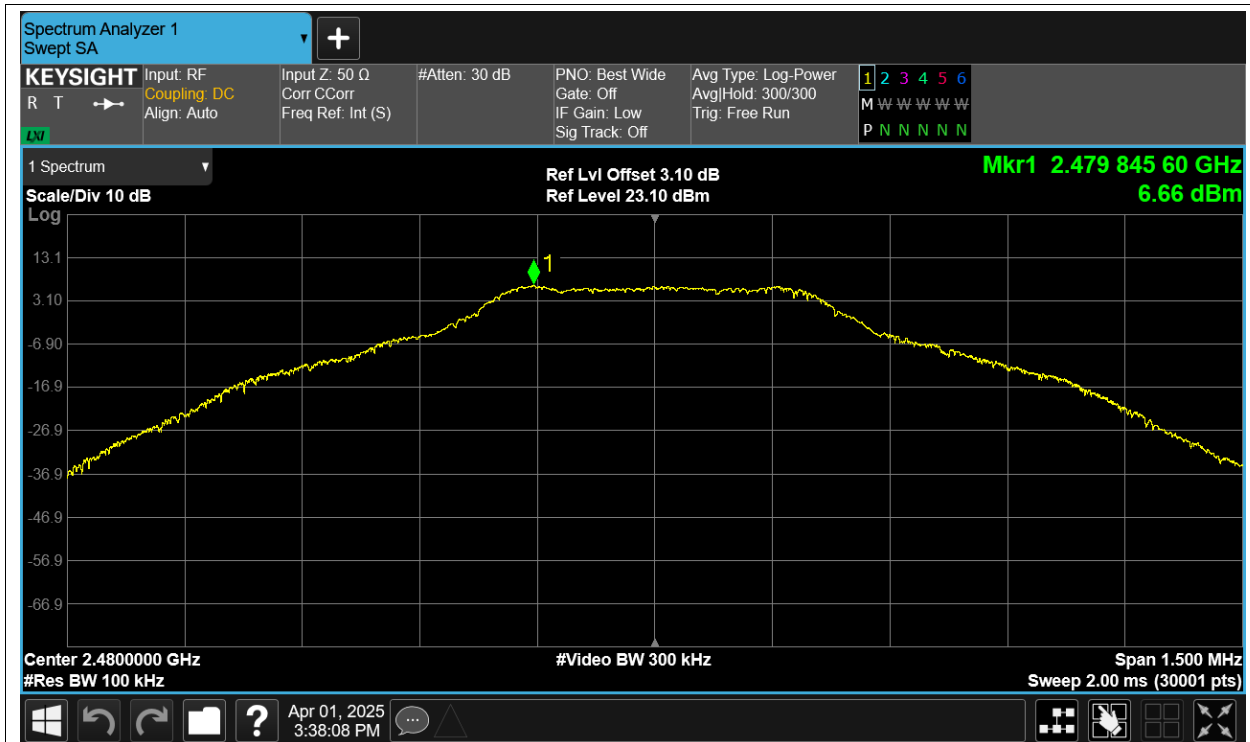
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



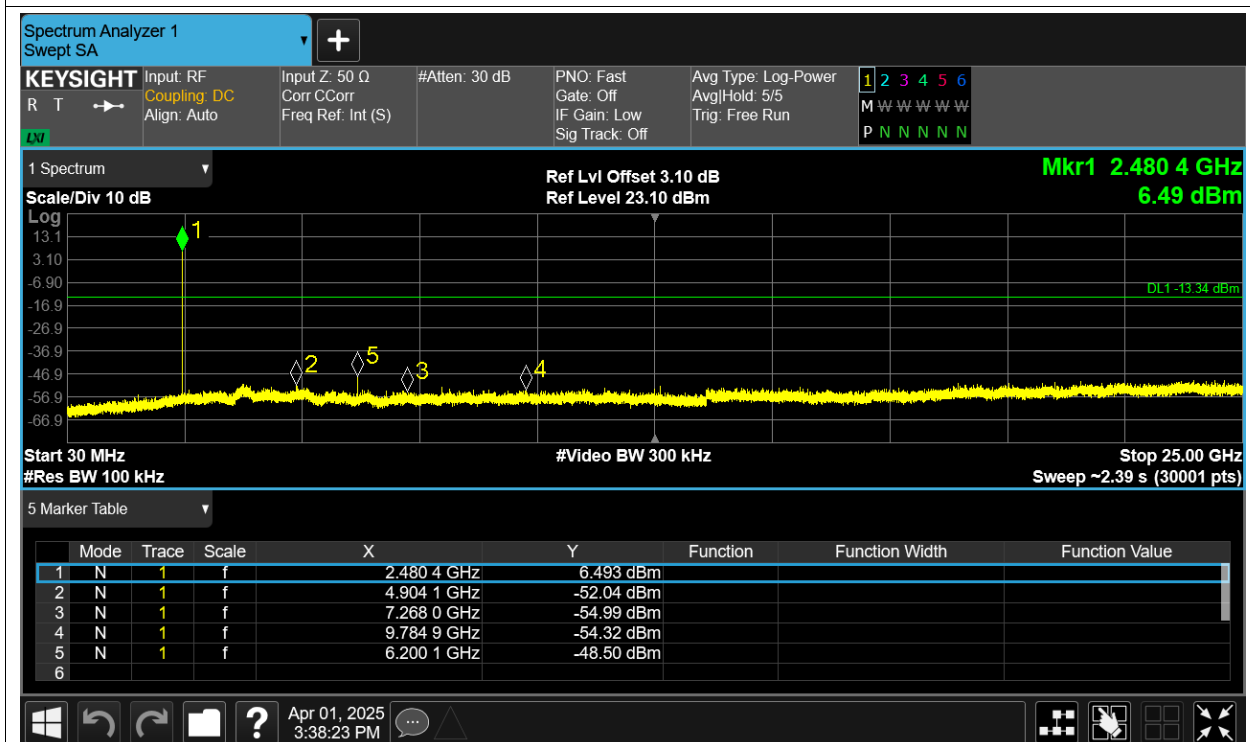
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



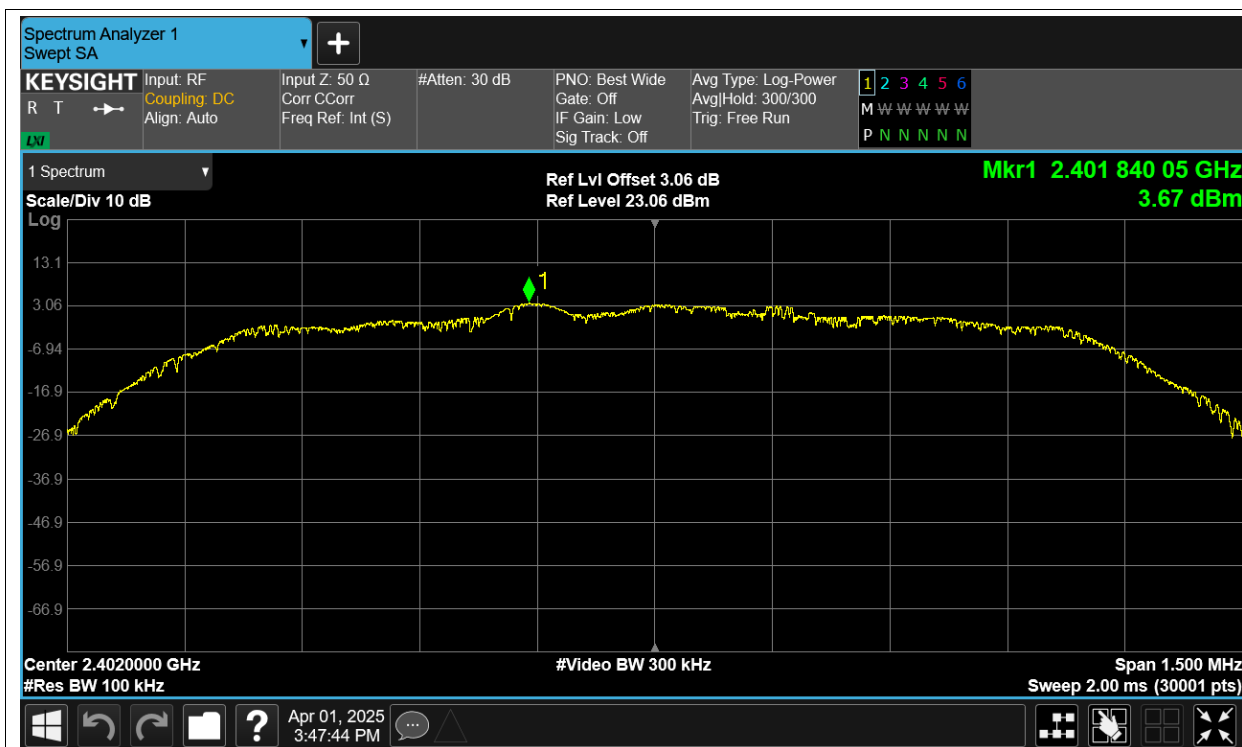
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



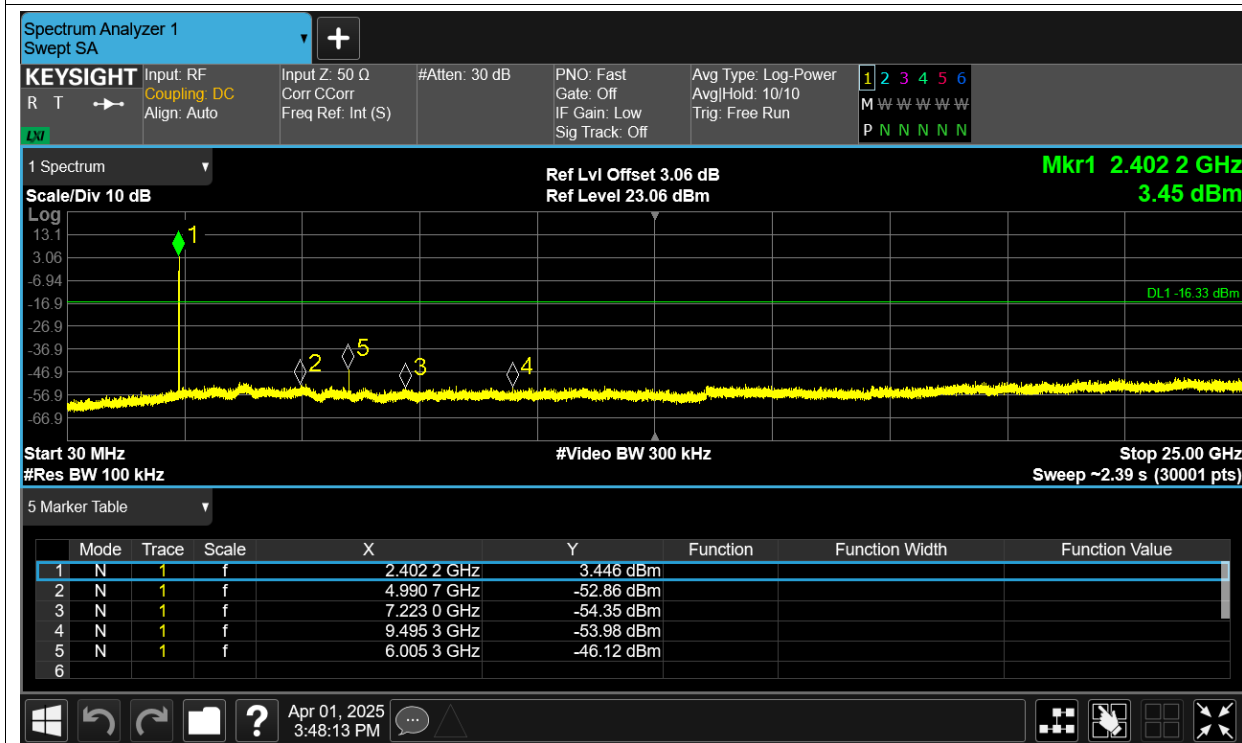
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



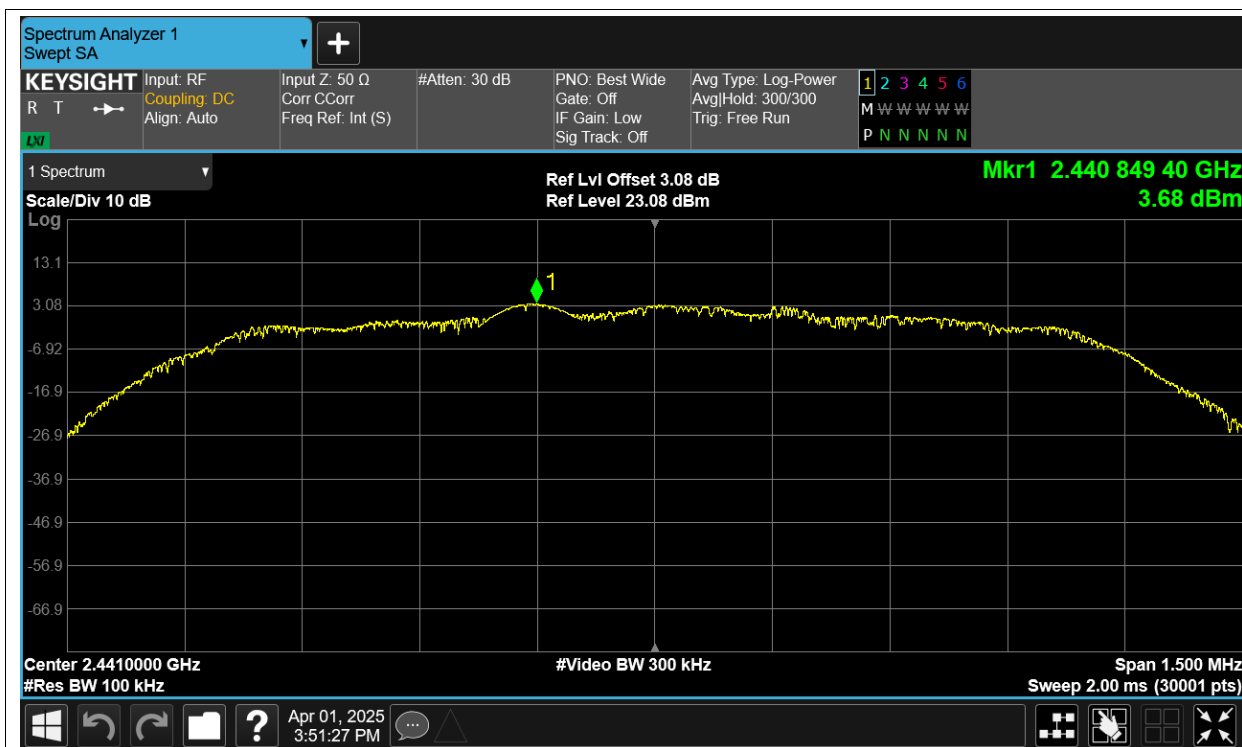
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



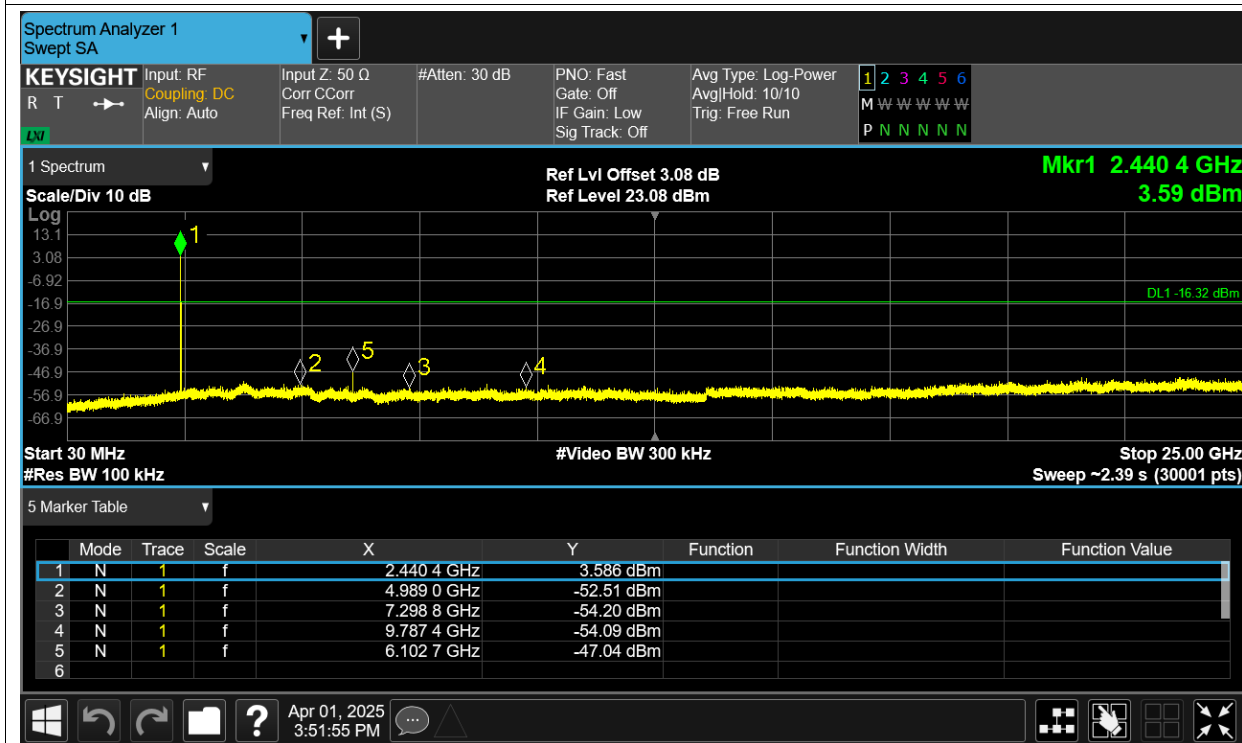
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



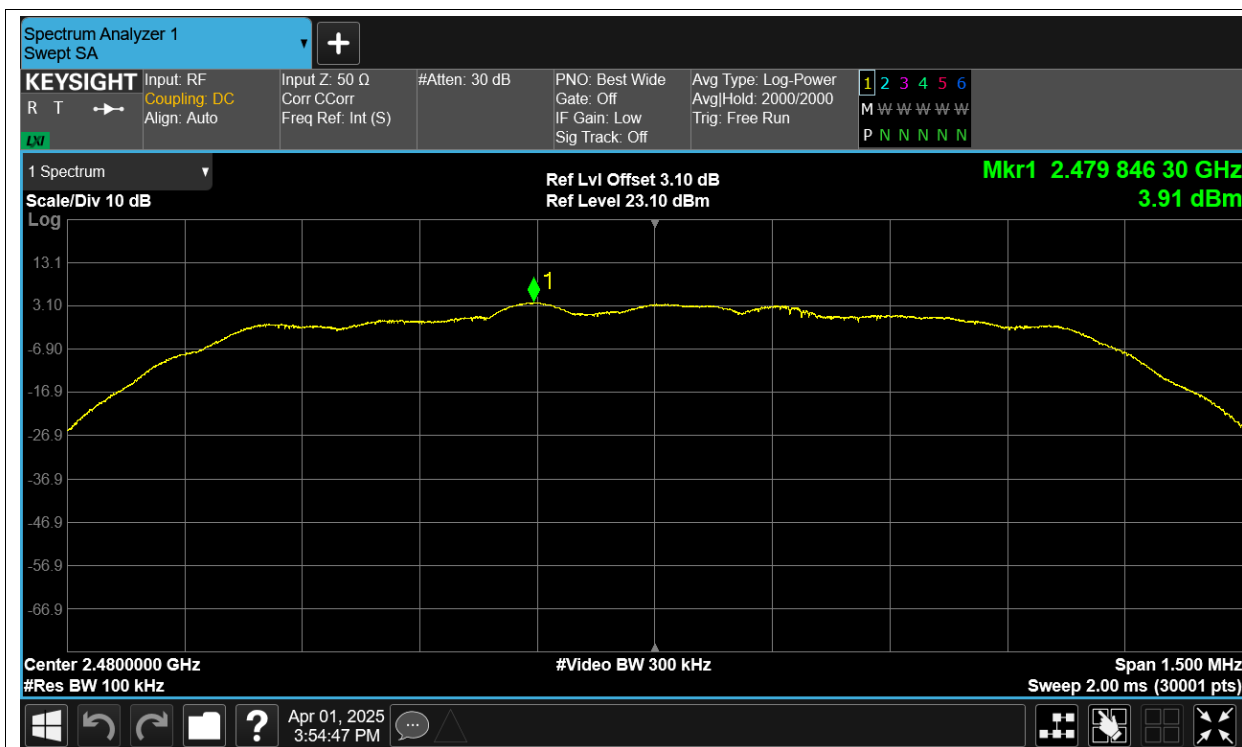
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



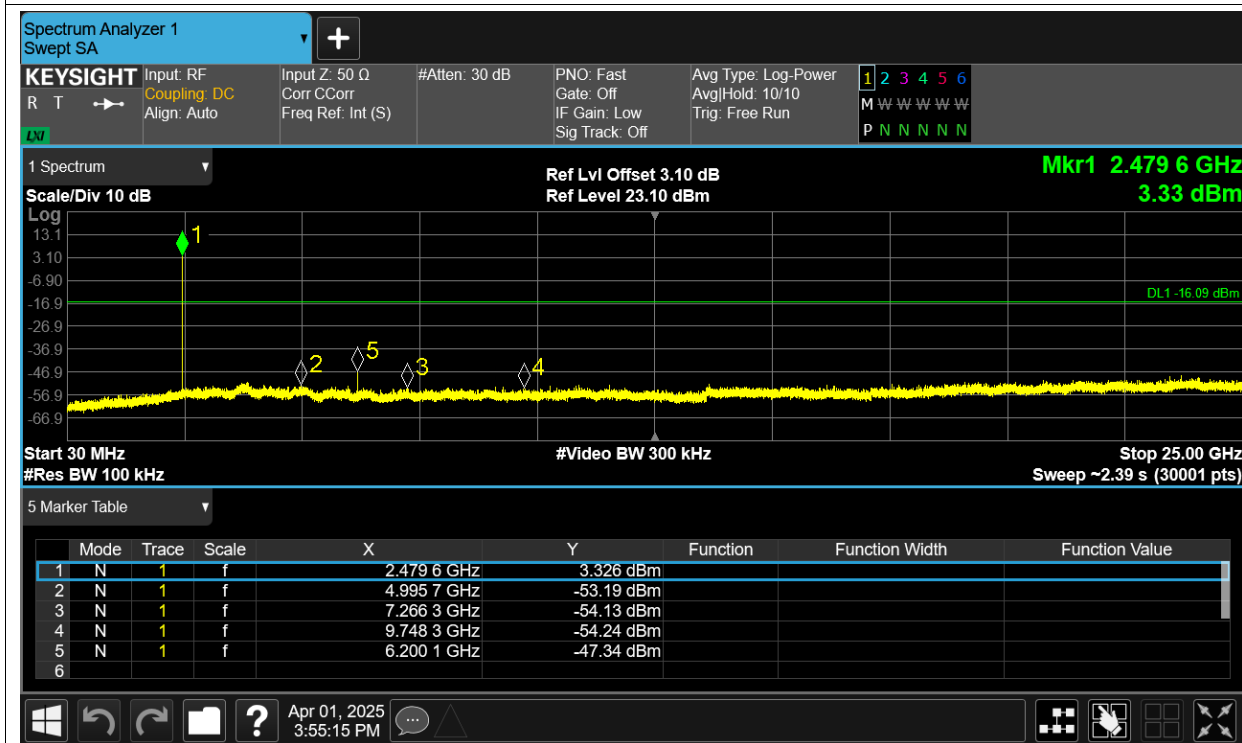
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



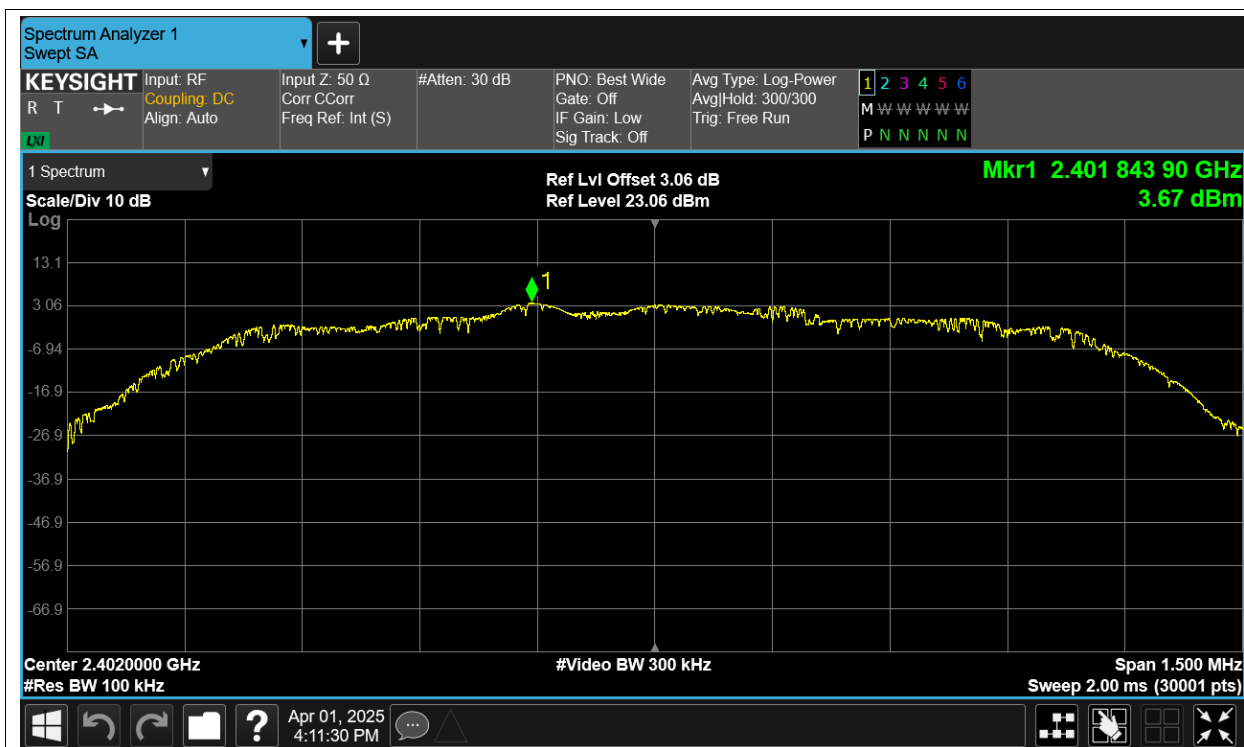
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



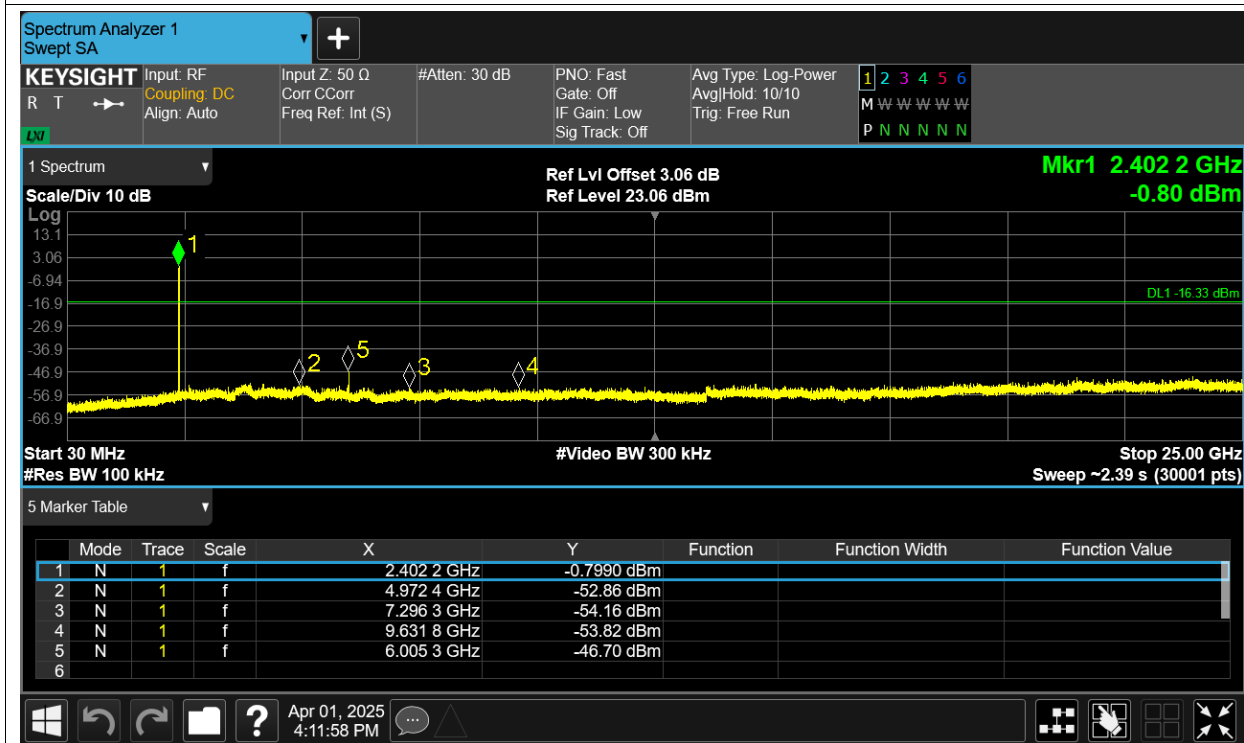
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



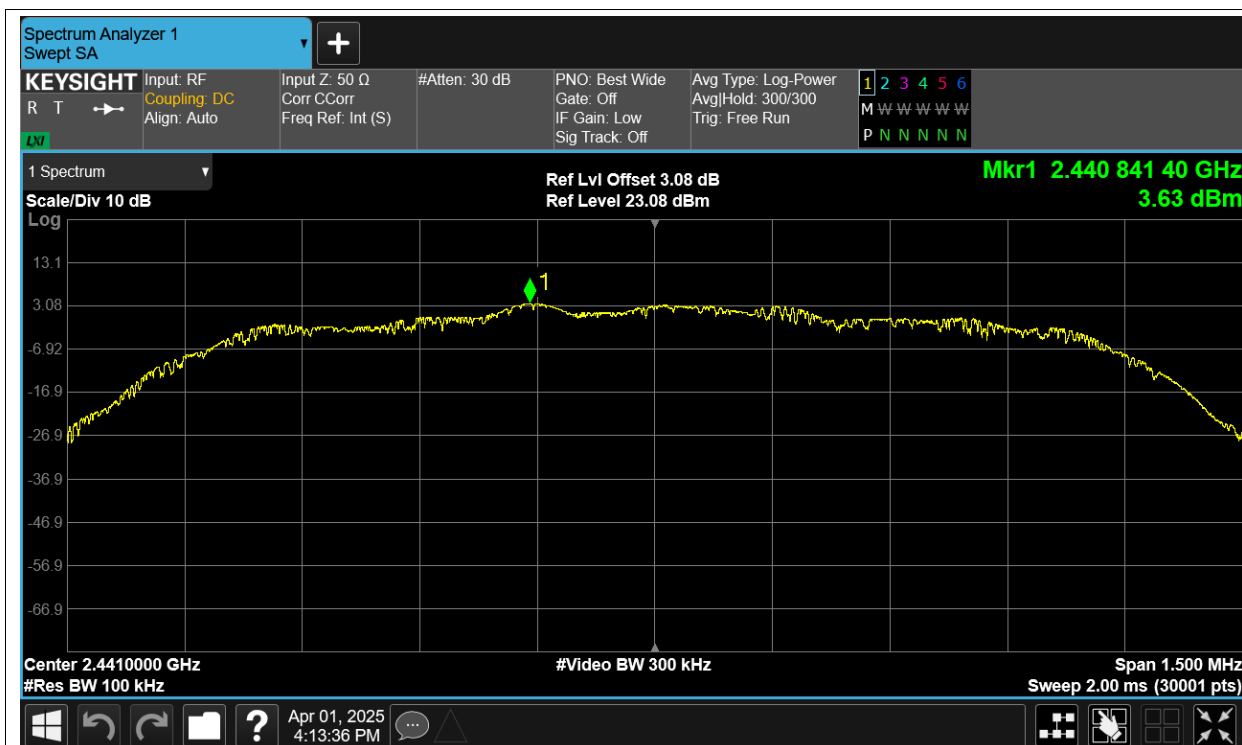
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



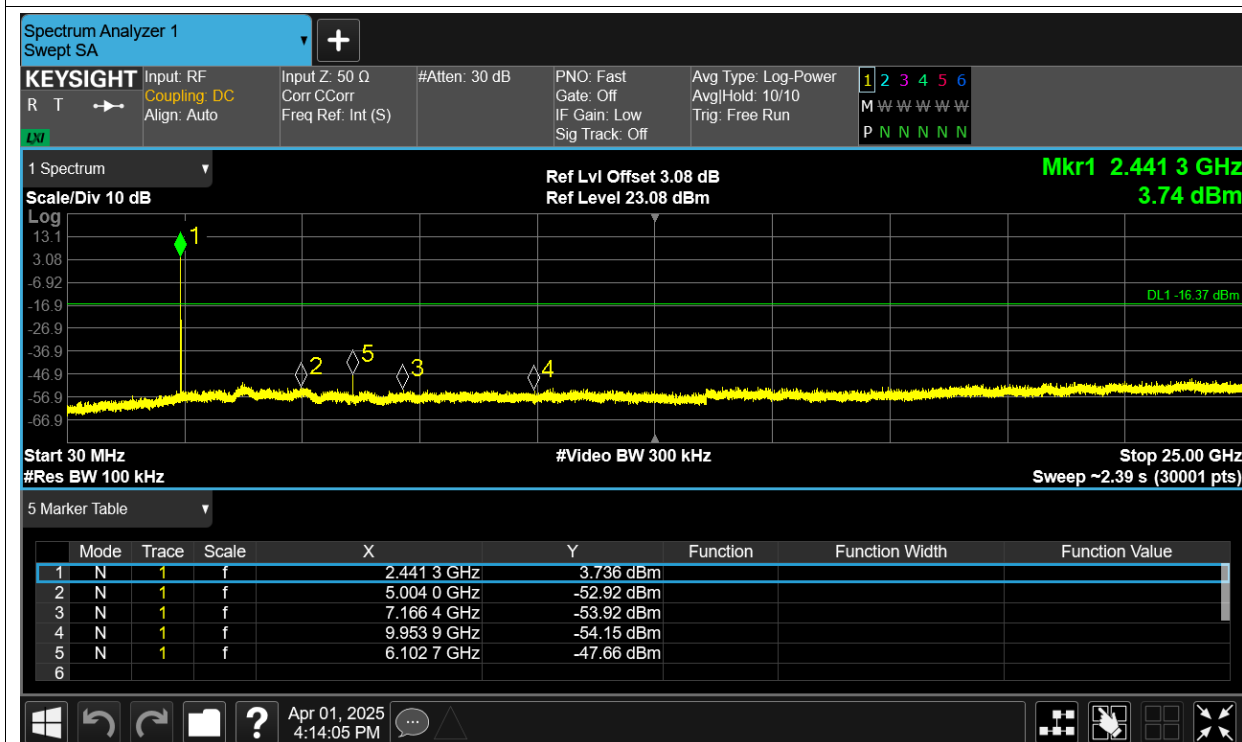
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



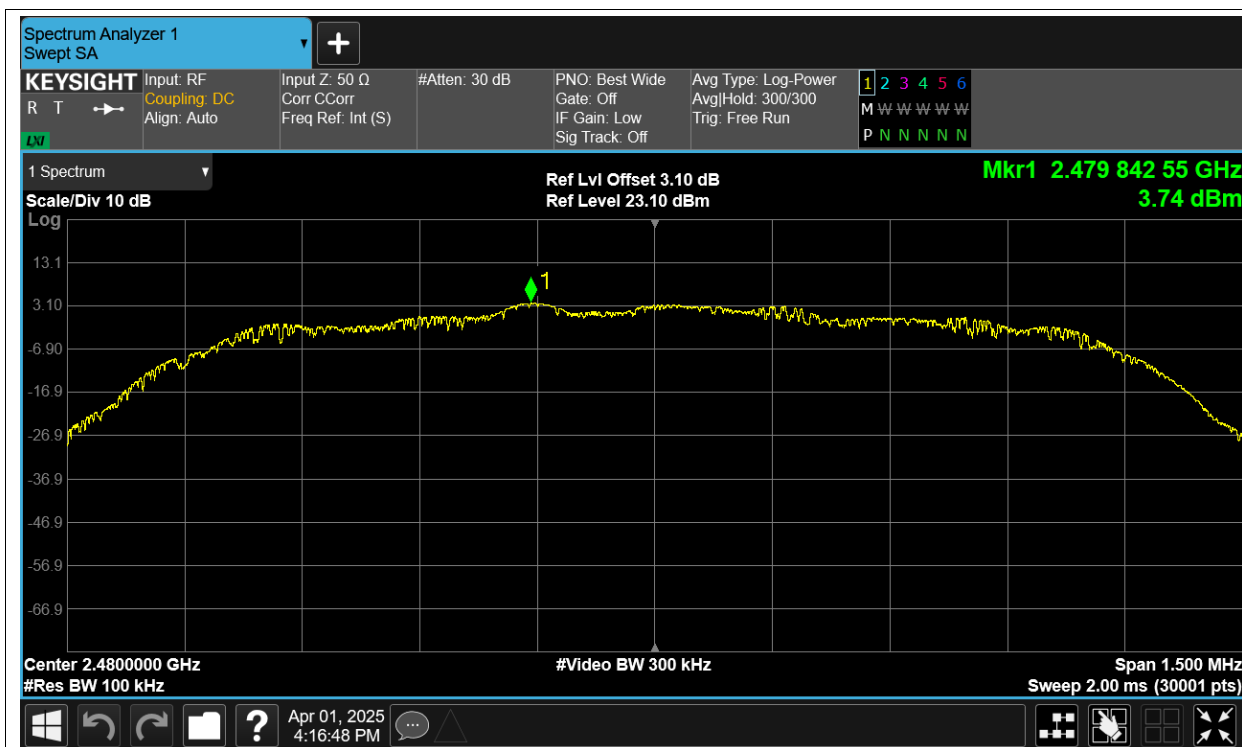
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



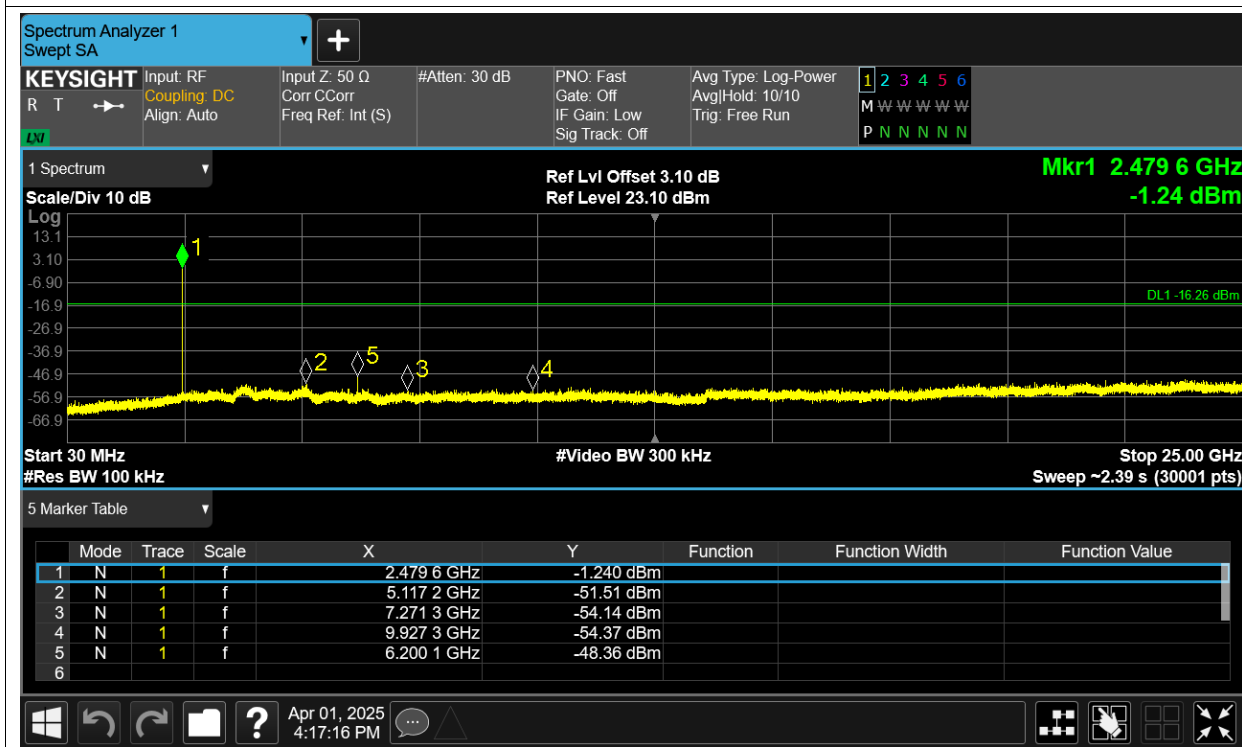
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

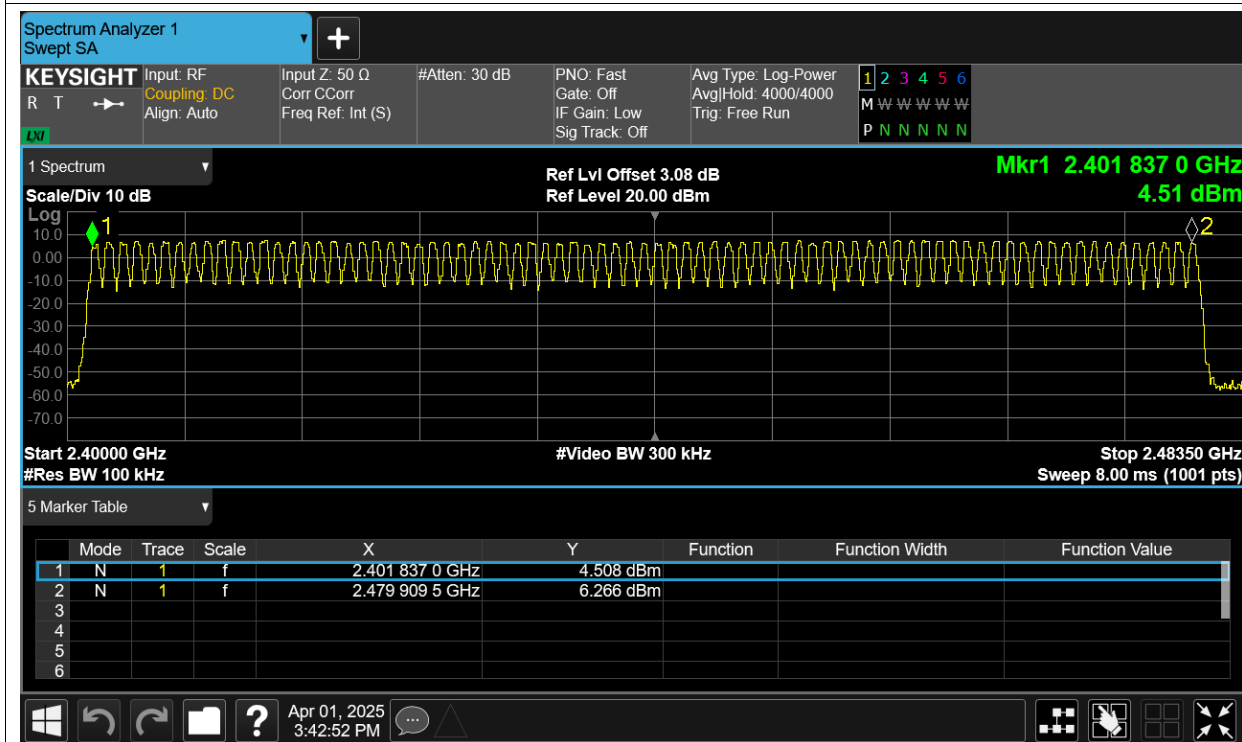


Number of Hopping Channel

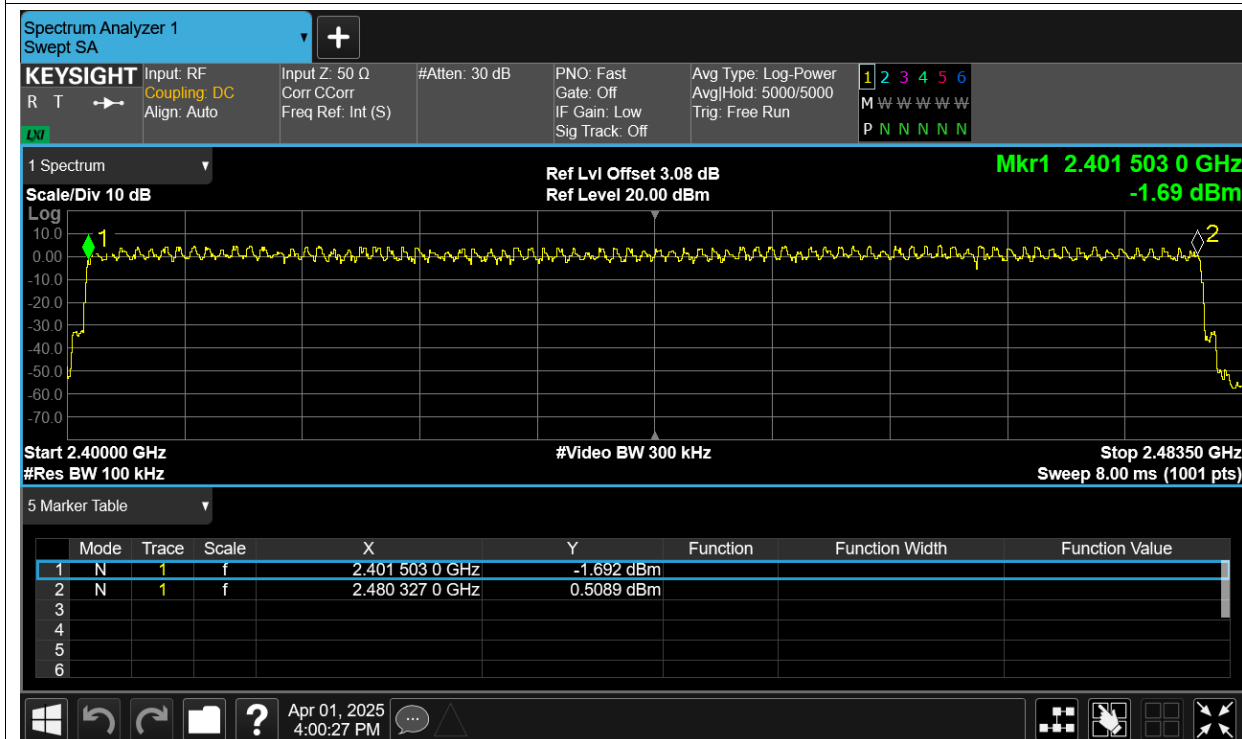
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

Test Graphs

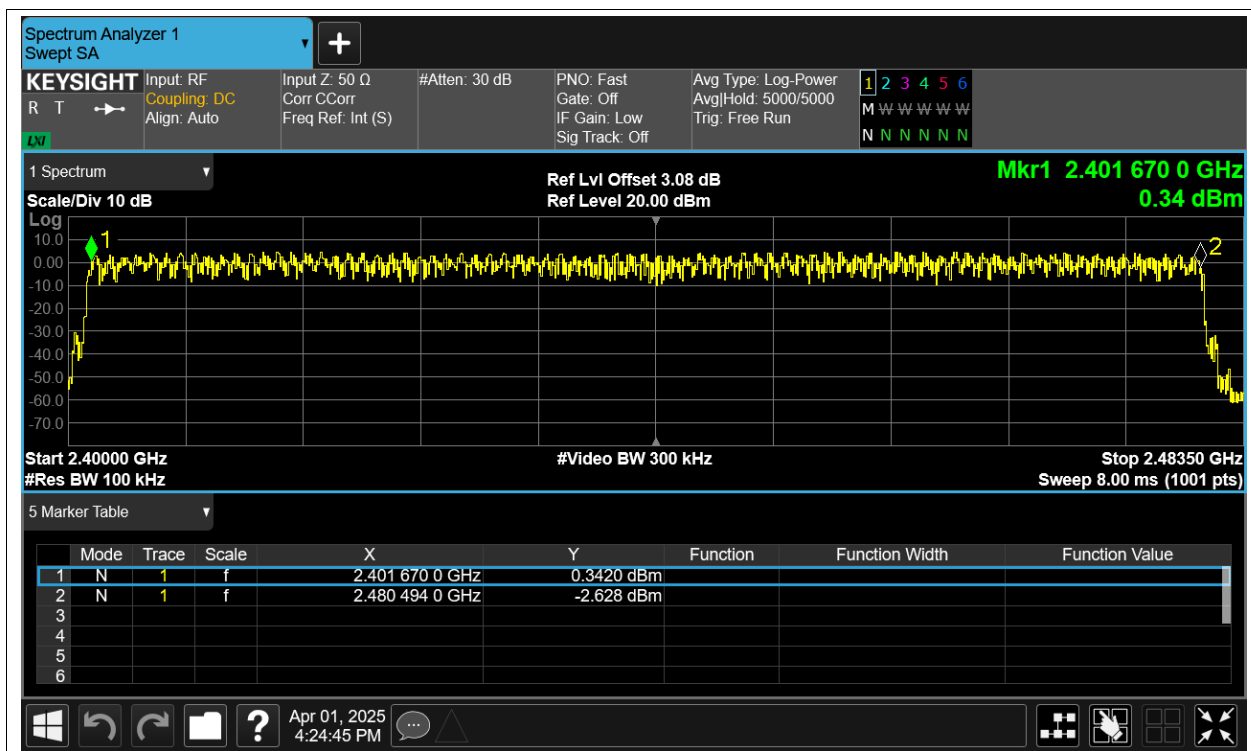
Hopping No. NVNT 1-DH1 2441MHz Ant1.



Hopping No. NVNT 2-DH1 2441MHz Ant1



Hopping No. NVNT 3-DH1 2441MHz Ant1



Dwell Time

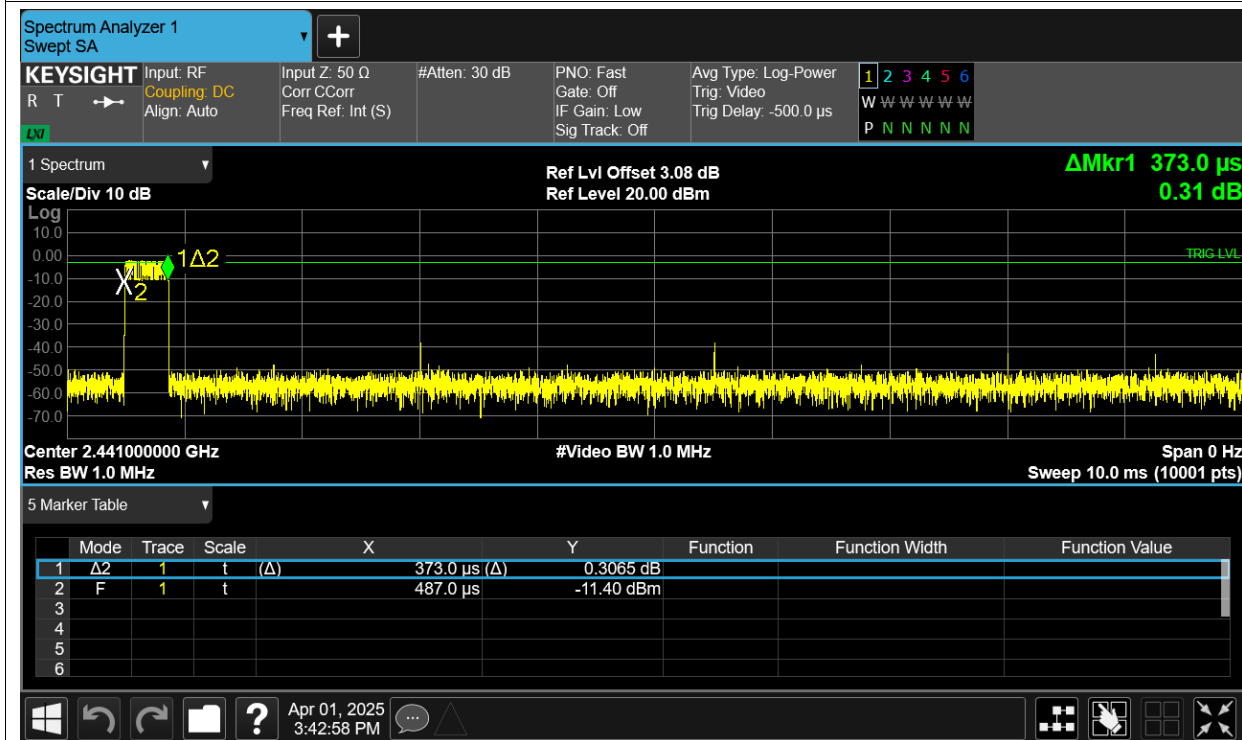
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.373	119.36	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.631	260.96	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.877	306.88	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.381	121.92	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.632	261.12	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.883	307.52	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.634	261.44	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.881	307.307	31600	400	Pass

Note:

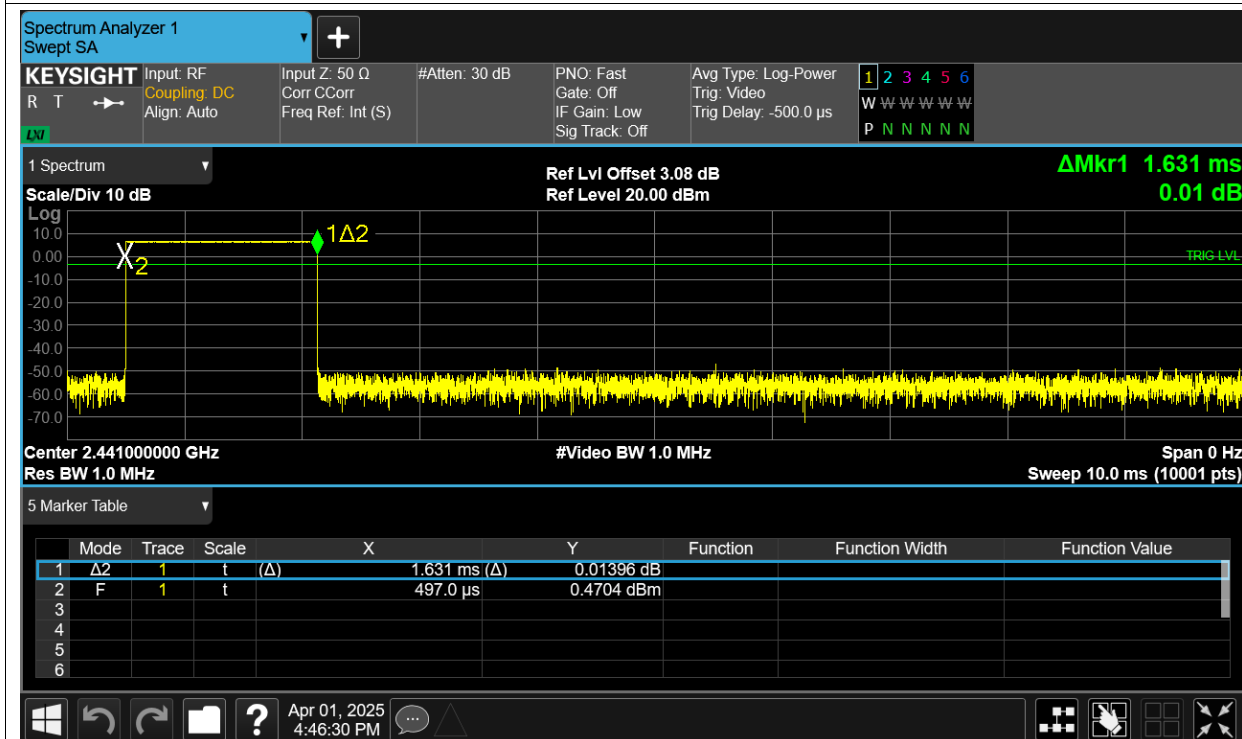
1. In DH1 mode, hopping rate is 1600 hops/s with 2 slots in 79 hopping channels. With channel hopping rate (1600/2/79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600/2/79)x(0.4 x 79)= 320 hops. Total Dwell time= Pulse Time × 320.
2. In DH3 mode, hopping rate is 1600 hops/s with 4 slots in 79 hopping channels. With channel hopping rate (1600/4/79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600/4/79)x(0.4 x 79)= 160 hops. Total Dwell time= Pulse Time × 160.
3. In DH5 mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600/6/79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600/6/79)x(0.4 x 79)= 106.67 hops. Total Dwell time= Pulse Time × 106.67.

Test Graphs

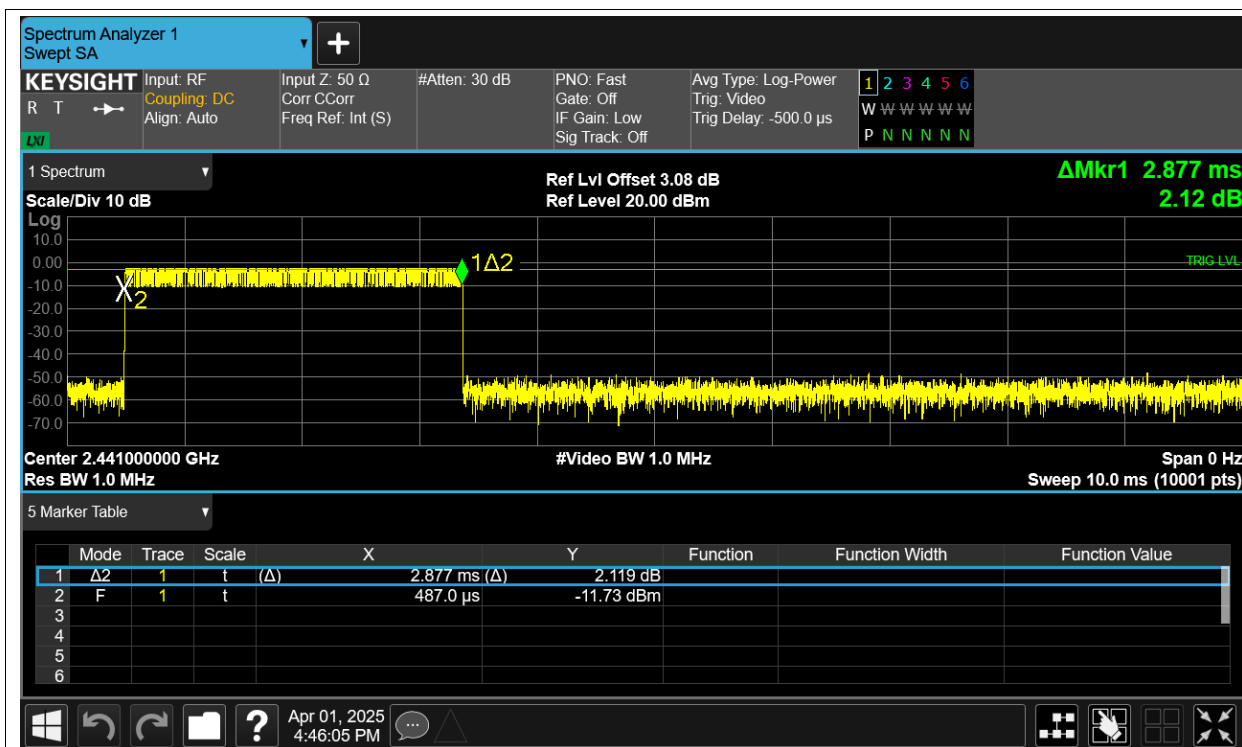
Dwell NVNT 1-DH1 2441MHz Ant1



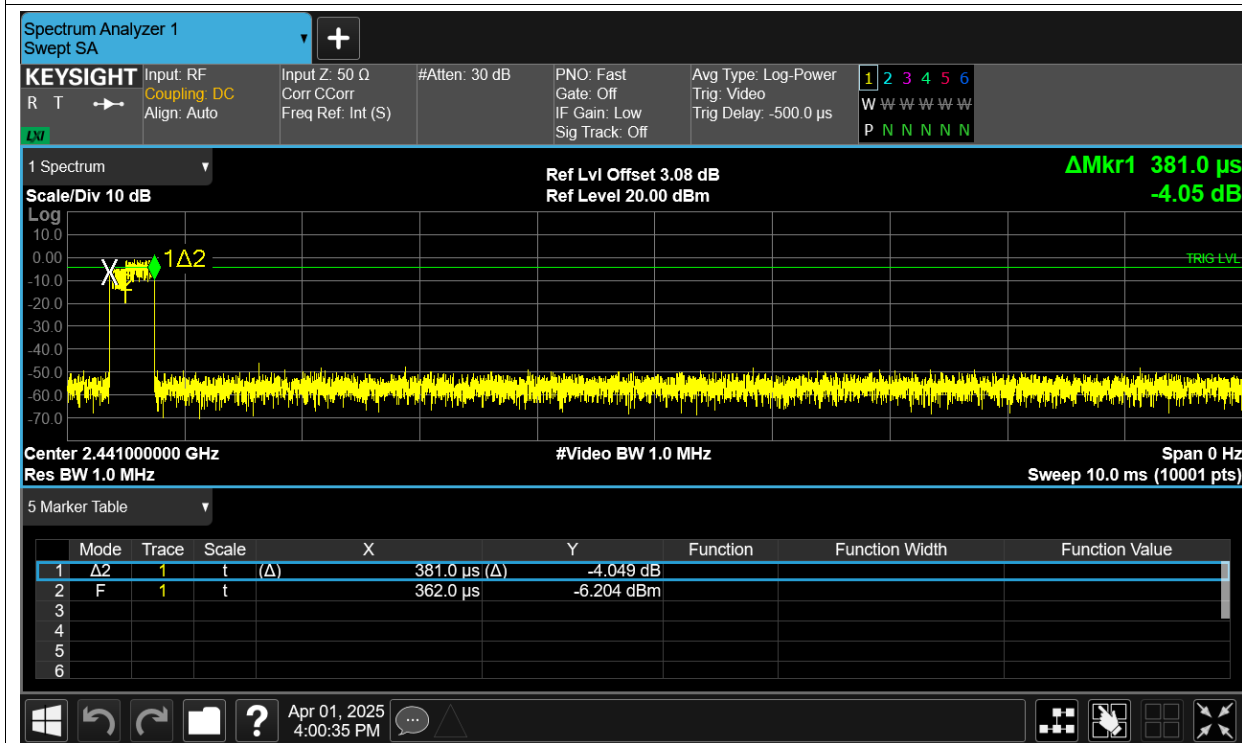
Dwell NVNT 1-DH3 2441MHz Ant1



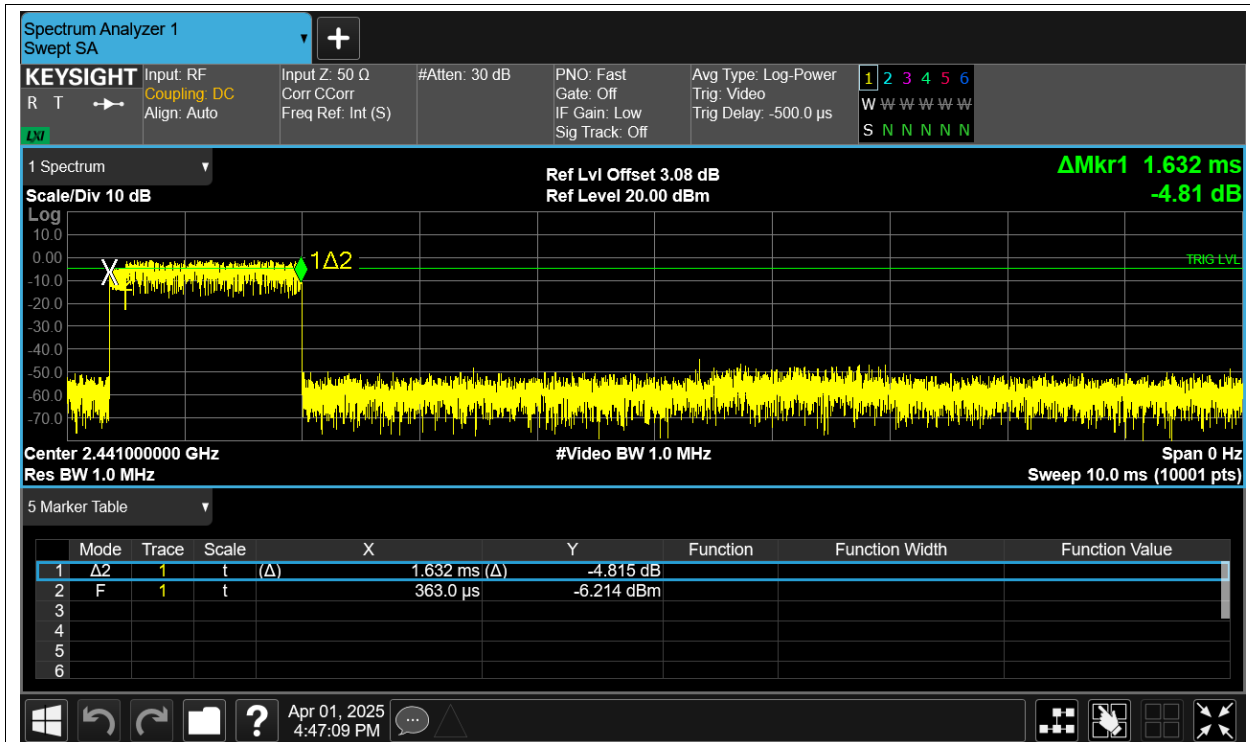
Dwell NVNT 1-DH5 2441MHz Ant1



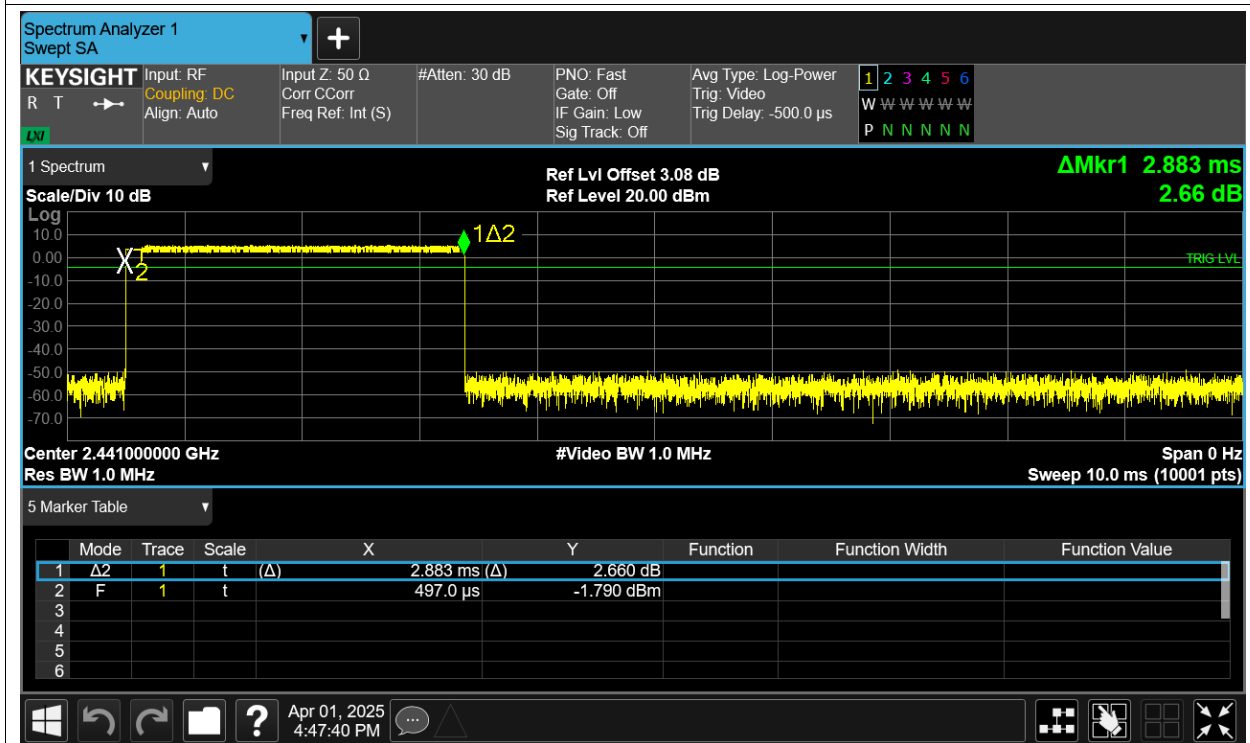
Dwell NVNT 2-DH1 2441MHz Ant1



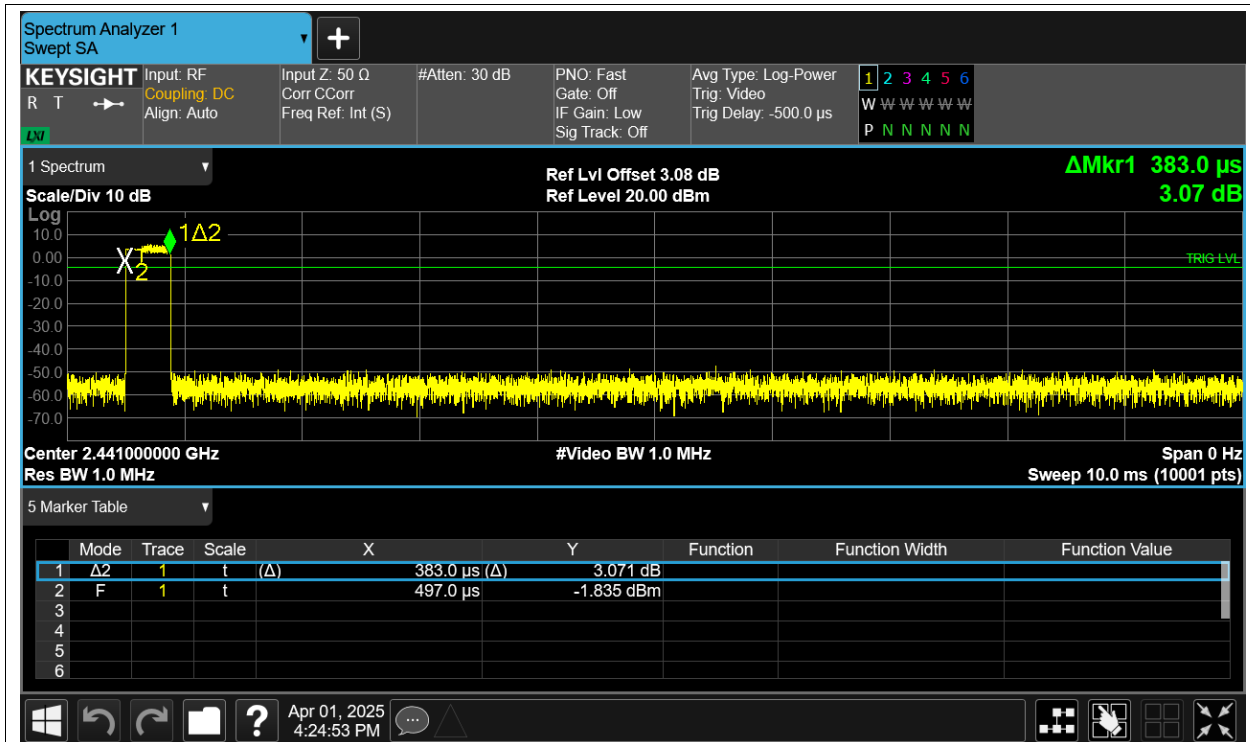
Dwell NVNT 2-DH3 2441MHz Ant1



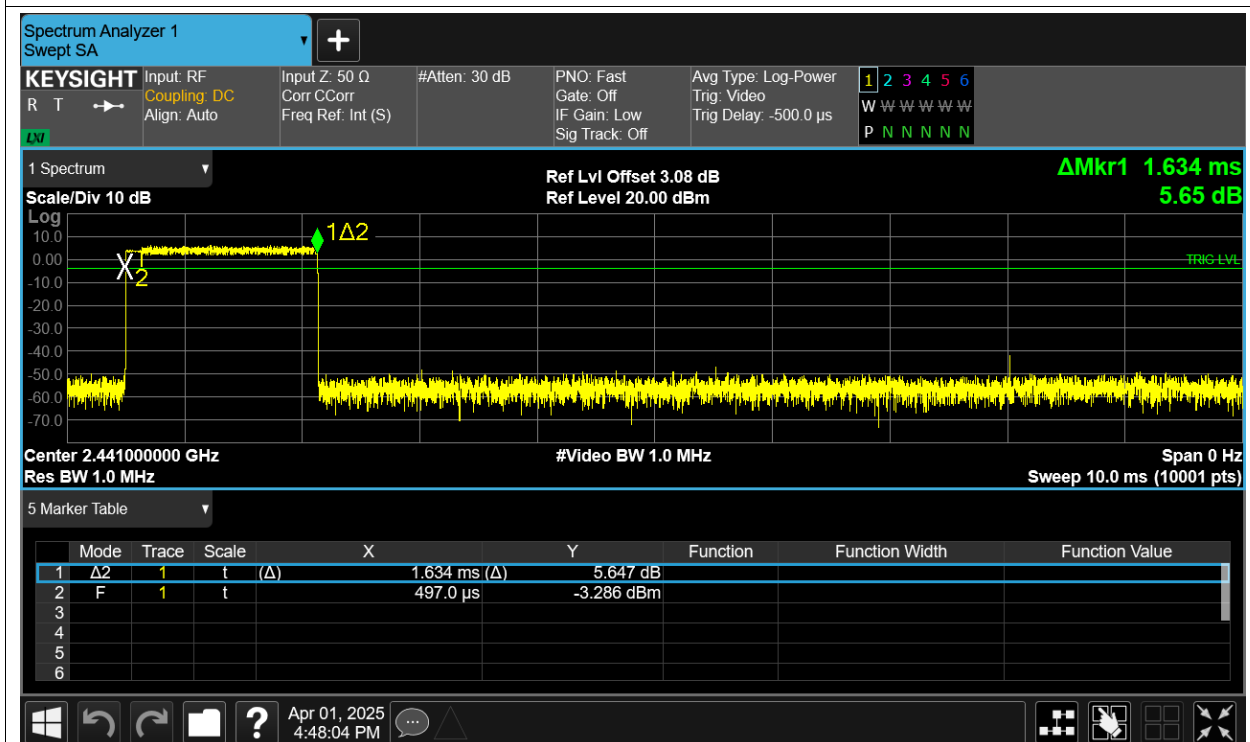
Dwell NVNT 2-DH5 2441MHz Ant1



Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1



Dwell NVNT 3-DH5 2441MHz Ant1

