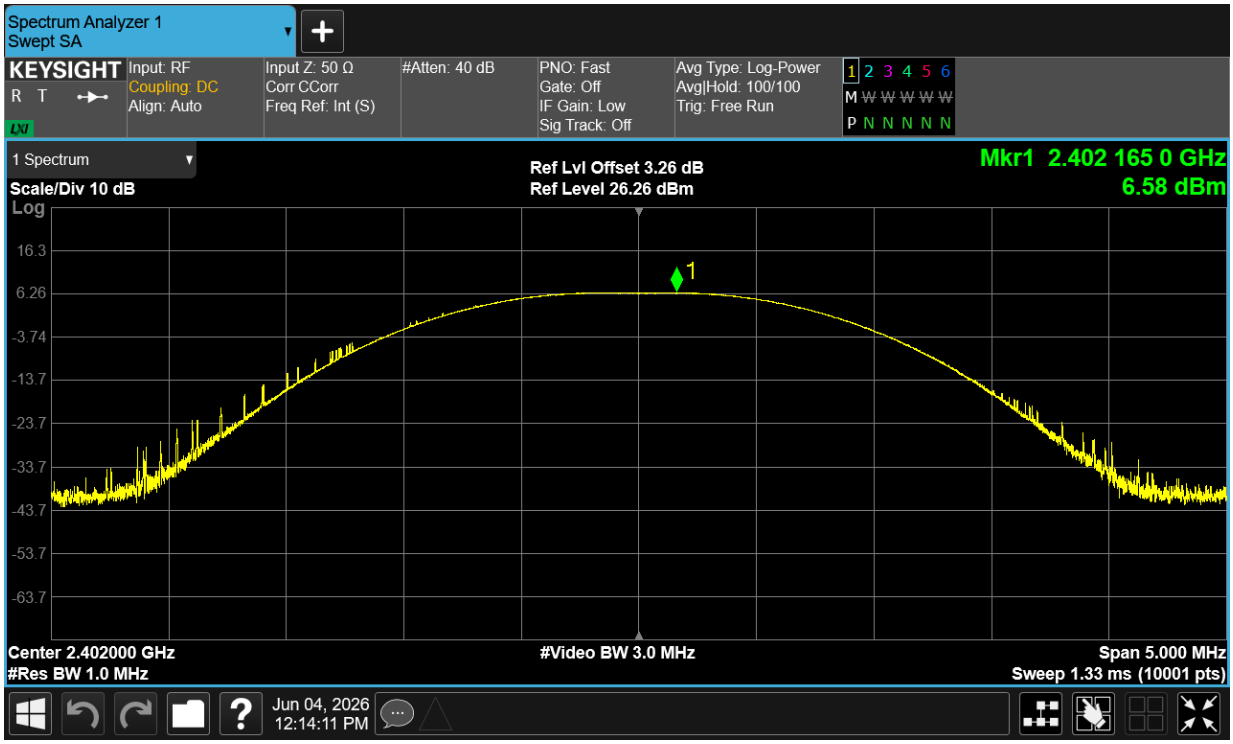
Test Data

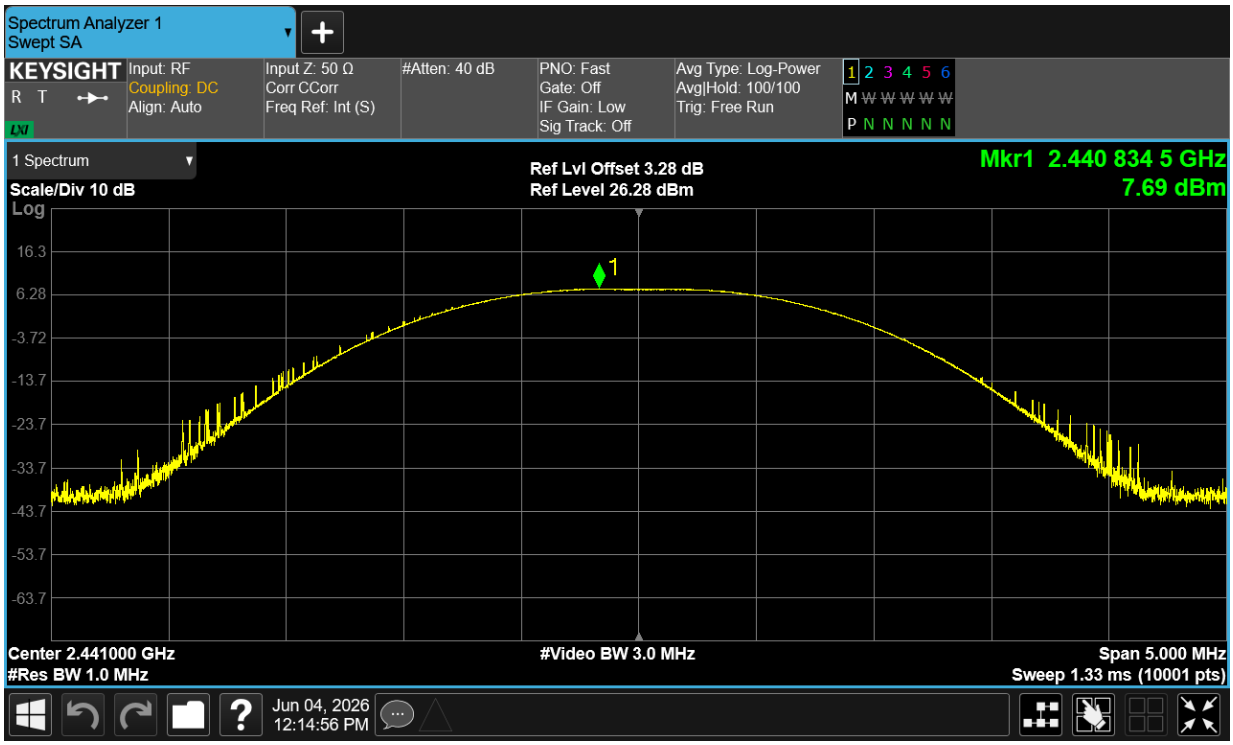
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	6.578	30	Pass
NVNT	1-DH1	2441	Ant1	7.689	30	Pass
NVNT	1-DH1	2480	Ant1	7.104	30	Pass
NVNT	2-DH1	2402	Ant1	8.095	21	Pass
NVNT	2-DH1	2441	Ant1	8.598	21	Pass
NVNT	2-DH1	2480	Ant1	7.896	21	Pass
NVNT	3-DH1	2402	Ant1	8.383	21	Pass
NVNT	3-DH1	2441	Ant1	8.807	21	Pass
NVNT	3-DH1	2480	Ant1	8.151	21	Pass

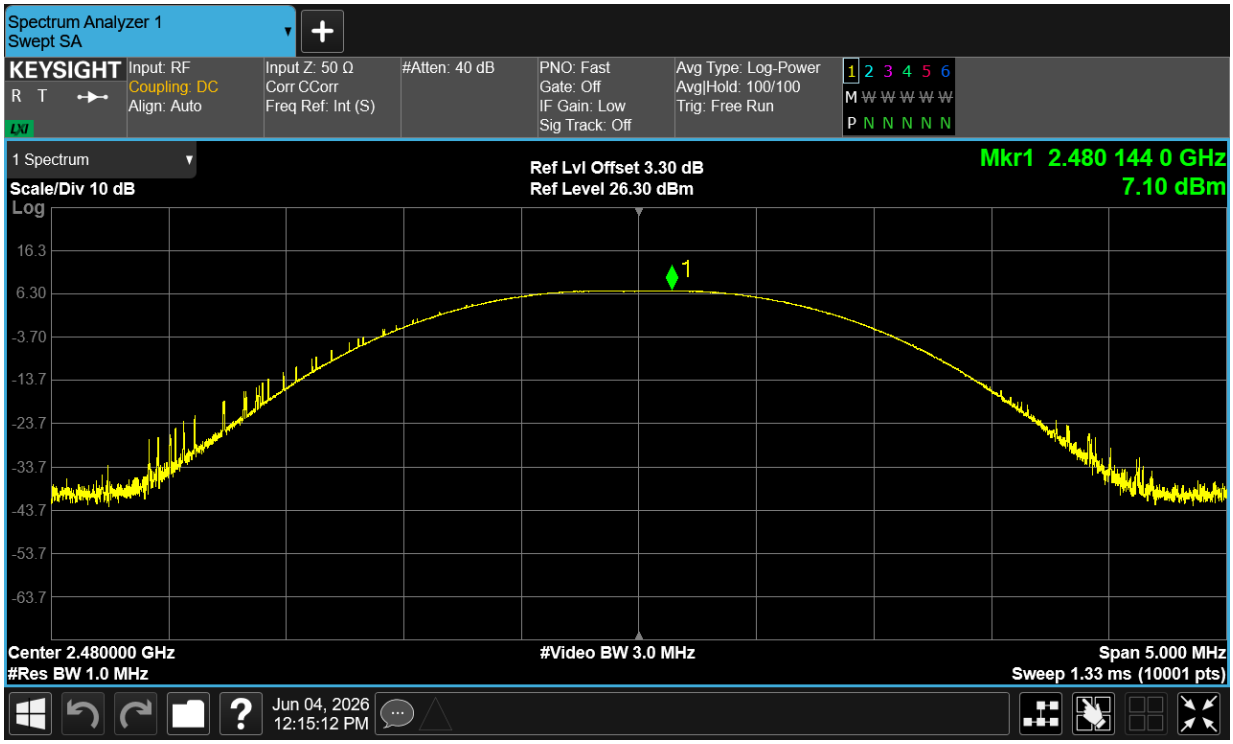
Test Graphs
Power NVNT 1-DH1 2402MHz Ant1



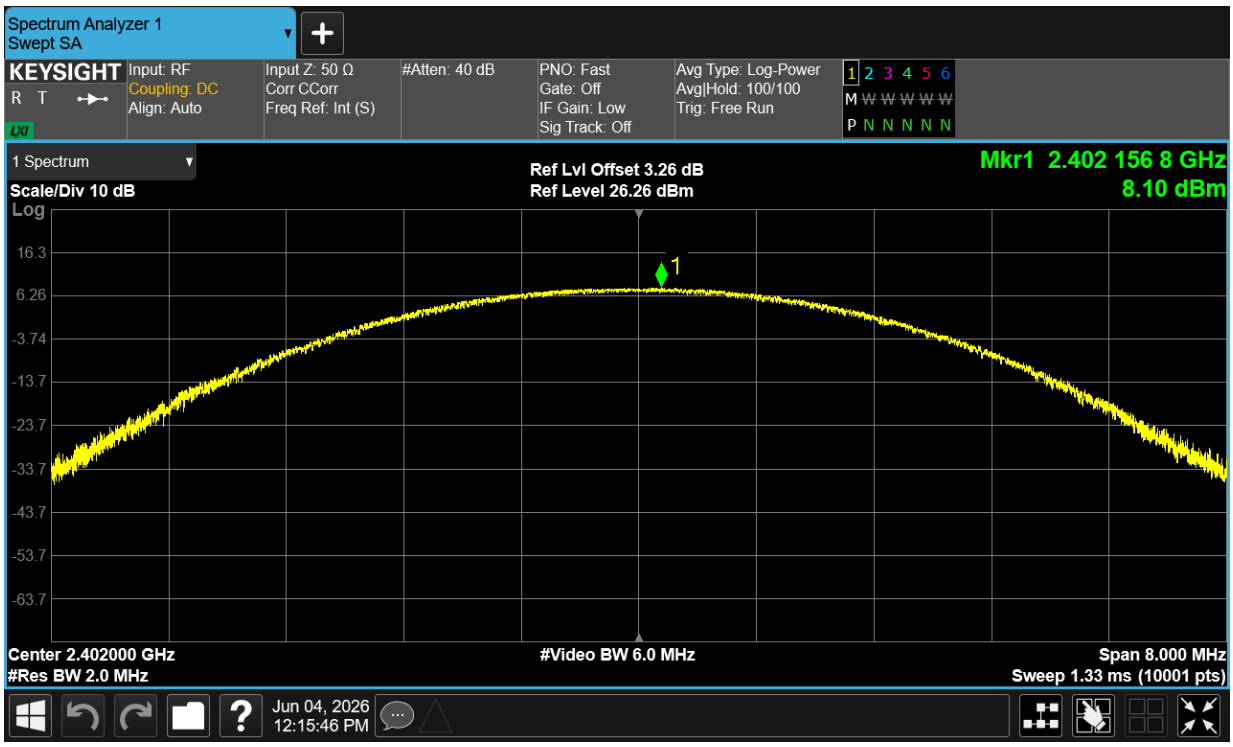
Power NVNT 1-DH1 2441MHz Ant1



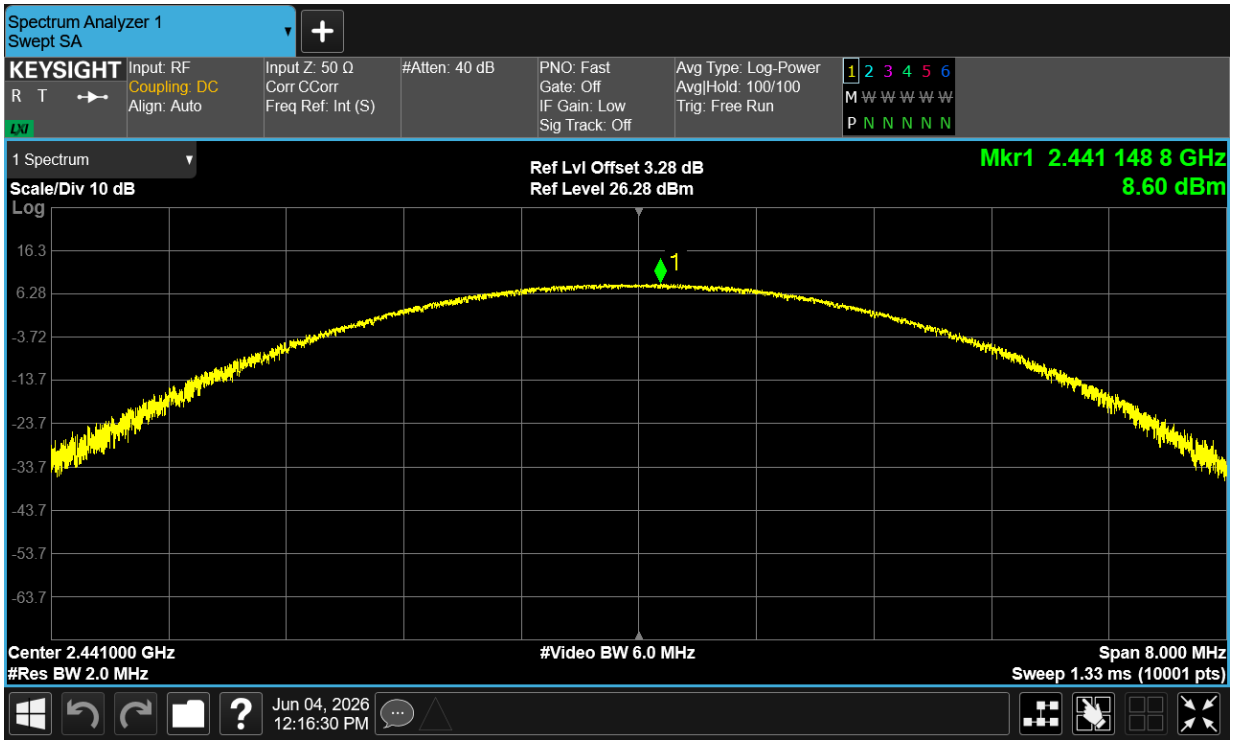
Power NVNT 1-DH1 2480MHz Ant1



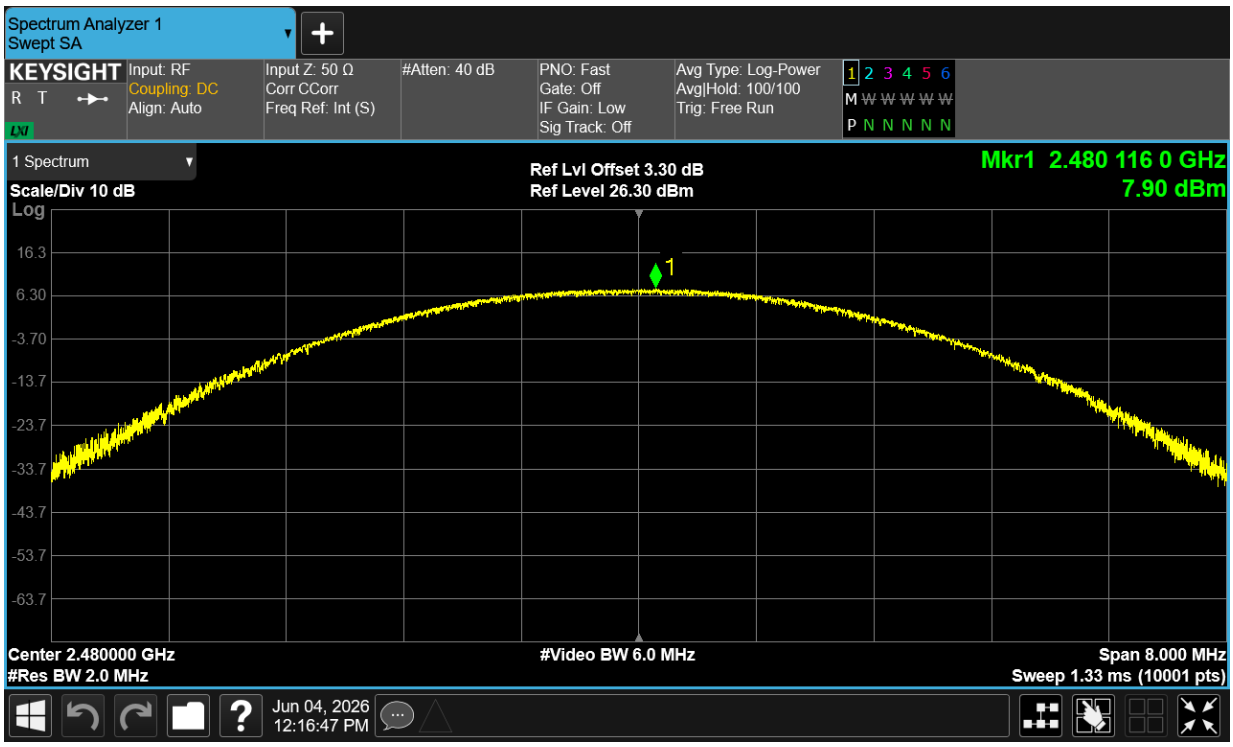
Power NVNT 2-DH1 2402MHz Ant1



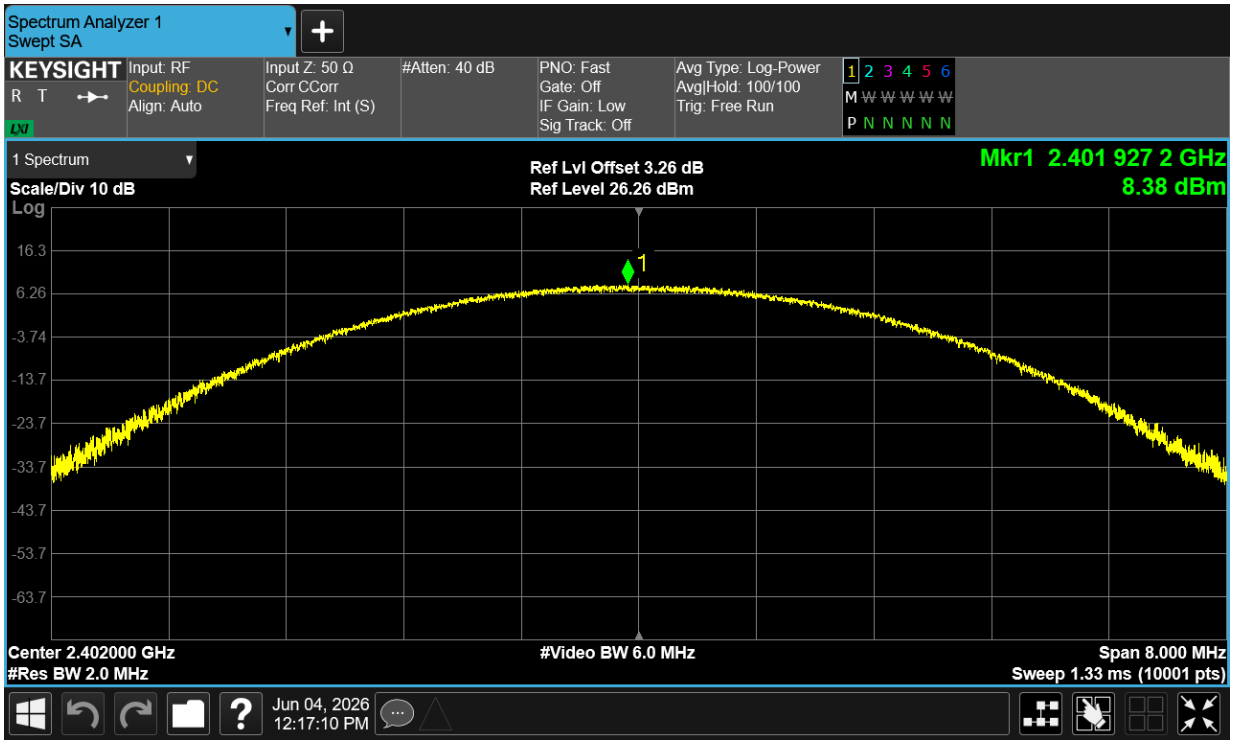
Power NVNT 2-DH1 2441MHz Ant1



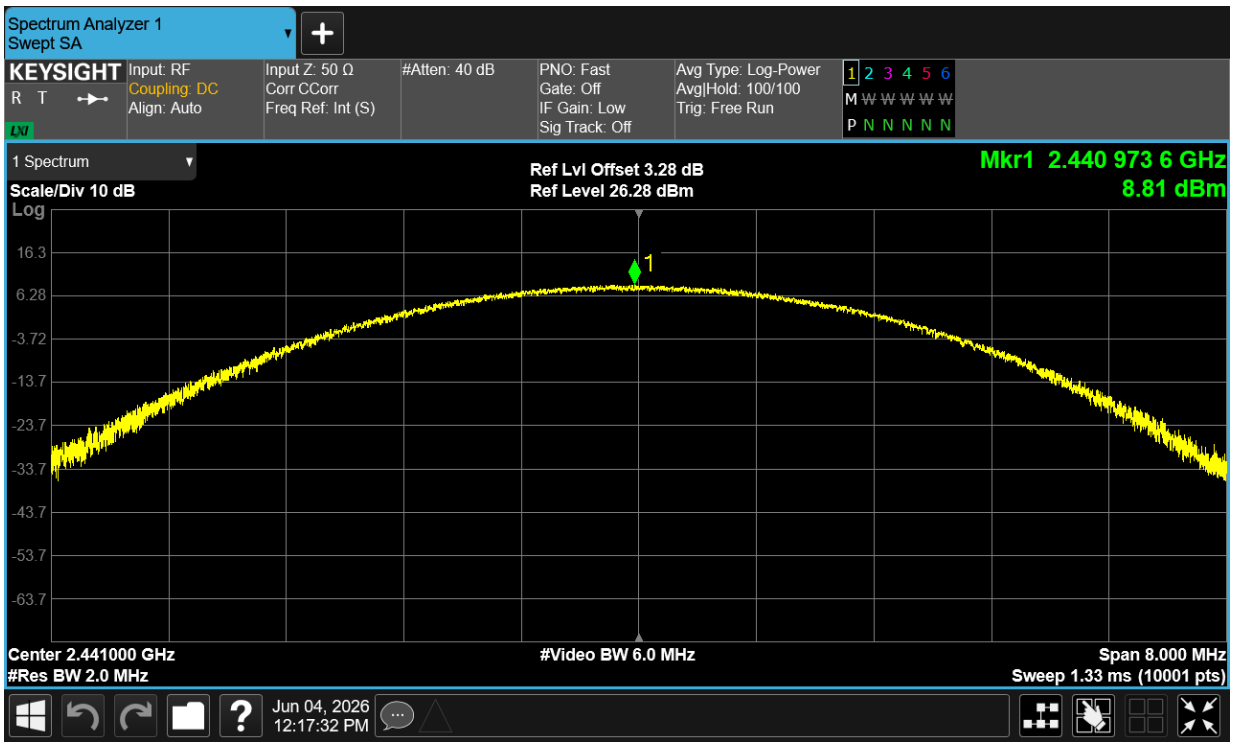
Power NVNT 2-DH1 2480MHz Ant1



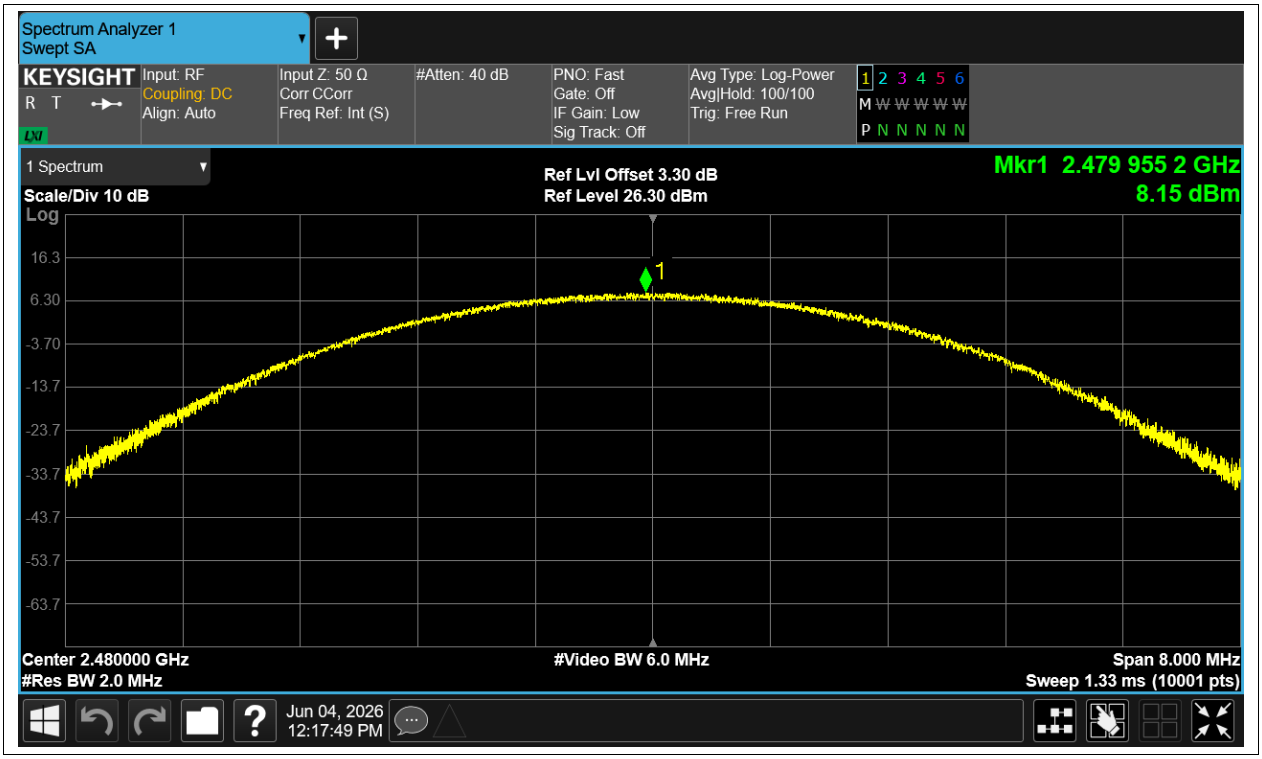
Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



Power NVNT 3-DH1 2480MHz Ant1

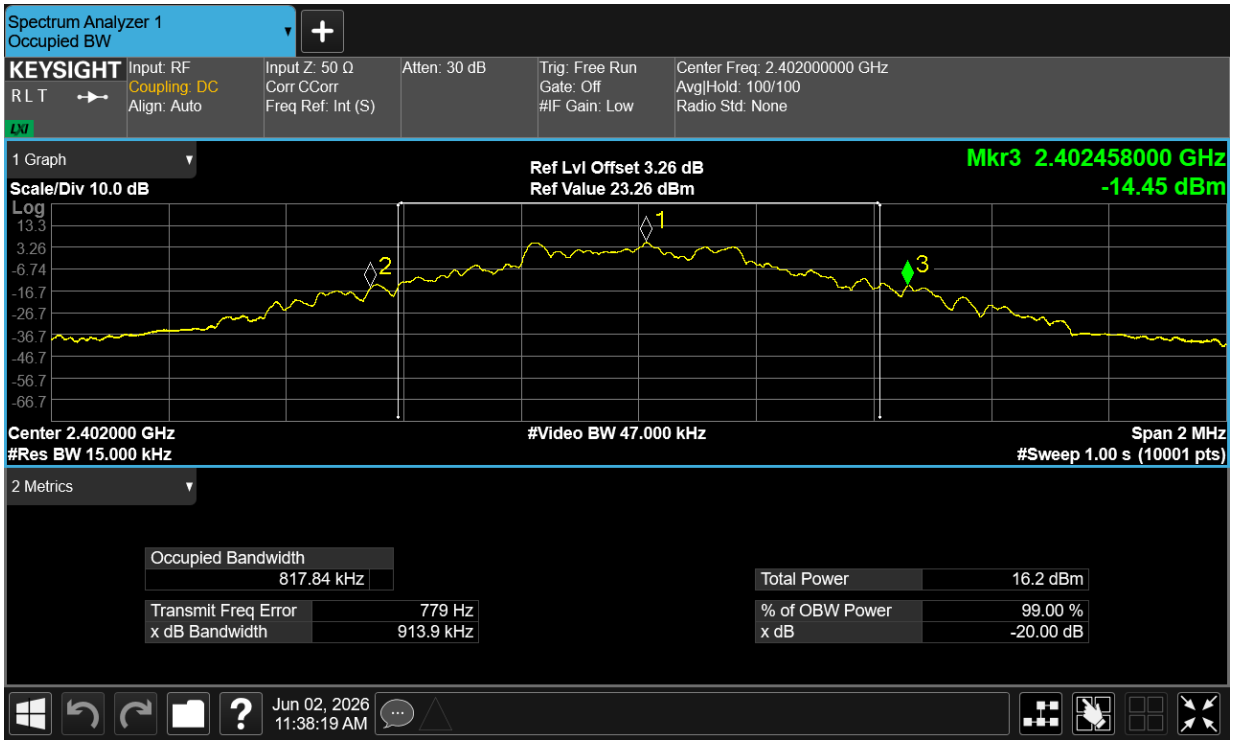

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 3.30 dB
Ref Level 26.30 dBm
Mkr1 2.479 955 2 GHz
8.15 dBm
Log
16.3
6.30
-3.70
-13.7
-23.7
-33.7
-43.7
-53.7
-63.7
Center 2.480000 GHz
#Res BW 2.0 MHz
#Video BW 6.0 MHz
Span 8.000 MHz
Sweep 1.33 ms (10001 pts)
Jun 04, 2026
12:17:49 PM

-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)
NVNT	1-DH1	2402	Ant1	0.914
NVNT	1-DH1	2441	Ant1	0.915
NVNT	1-DH1	2480	Ant1	0.877
NVNT	2-DH1	2402	Ant1	1.254
NVNT	2-DH1	2441	Ant1	1.242
NVNT	2-DH1	2480	Ant1	1.271
NVNT	3-DH1	2402	Ant1	1.212
NVNT	3-DH1	2441	Ant1	1.224
NVNT	3-DH1	2480	Ant1	1.225

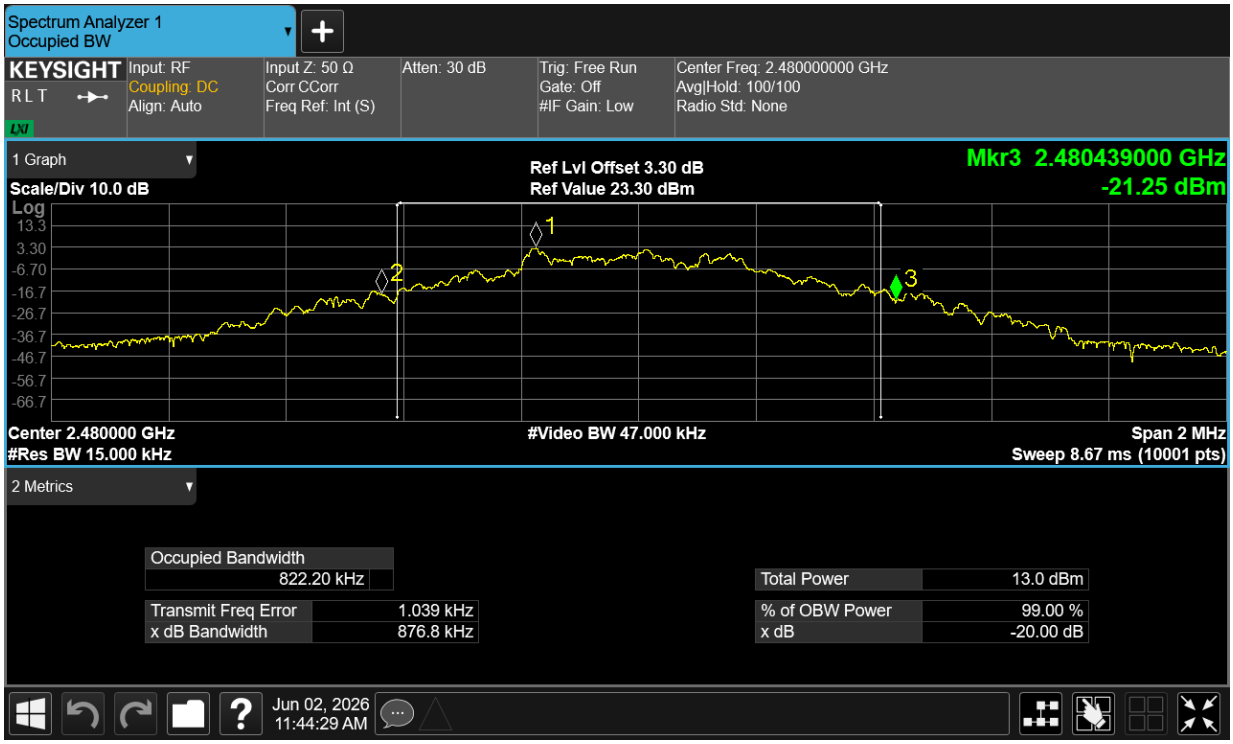
Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1

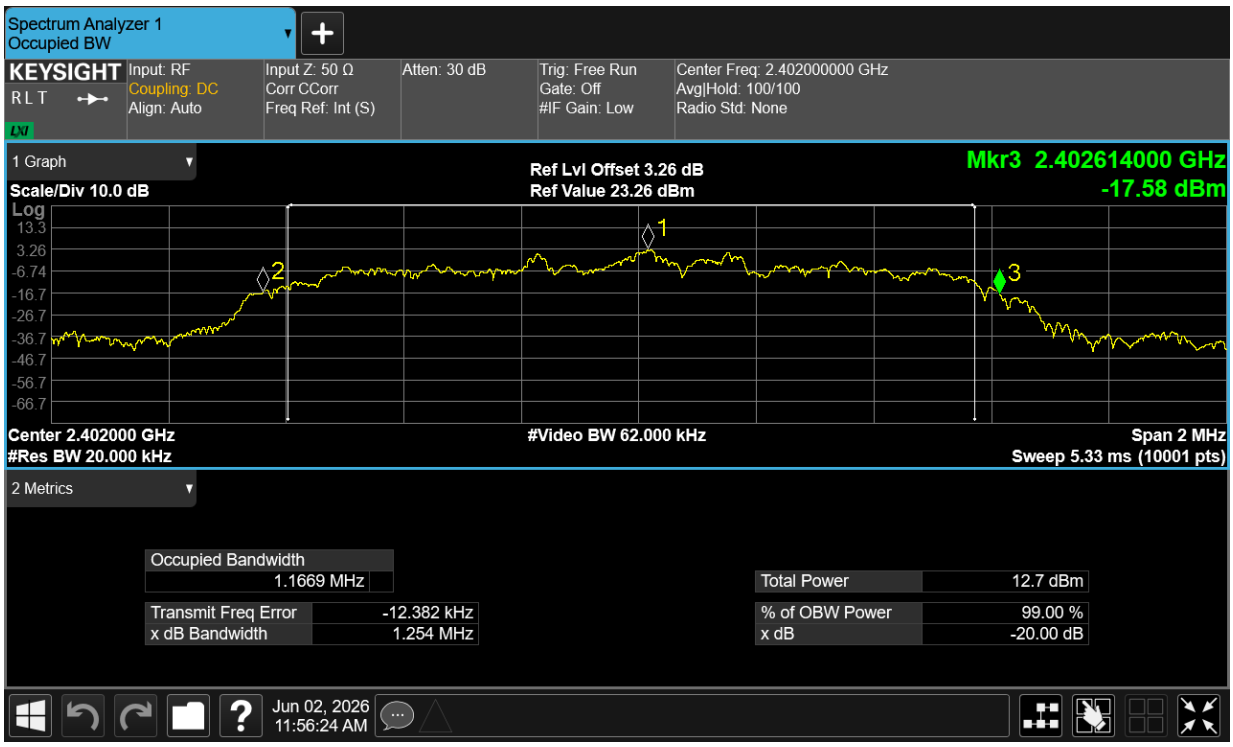


-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1

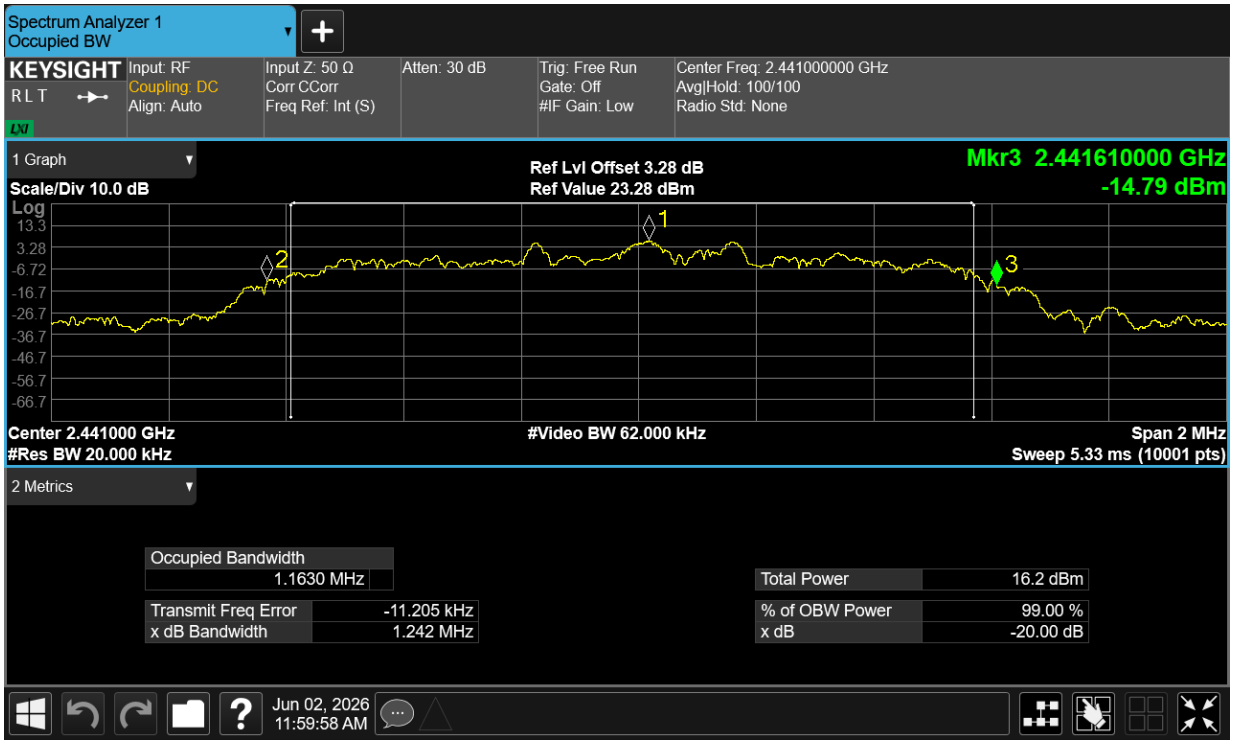
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



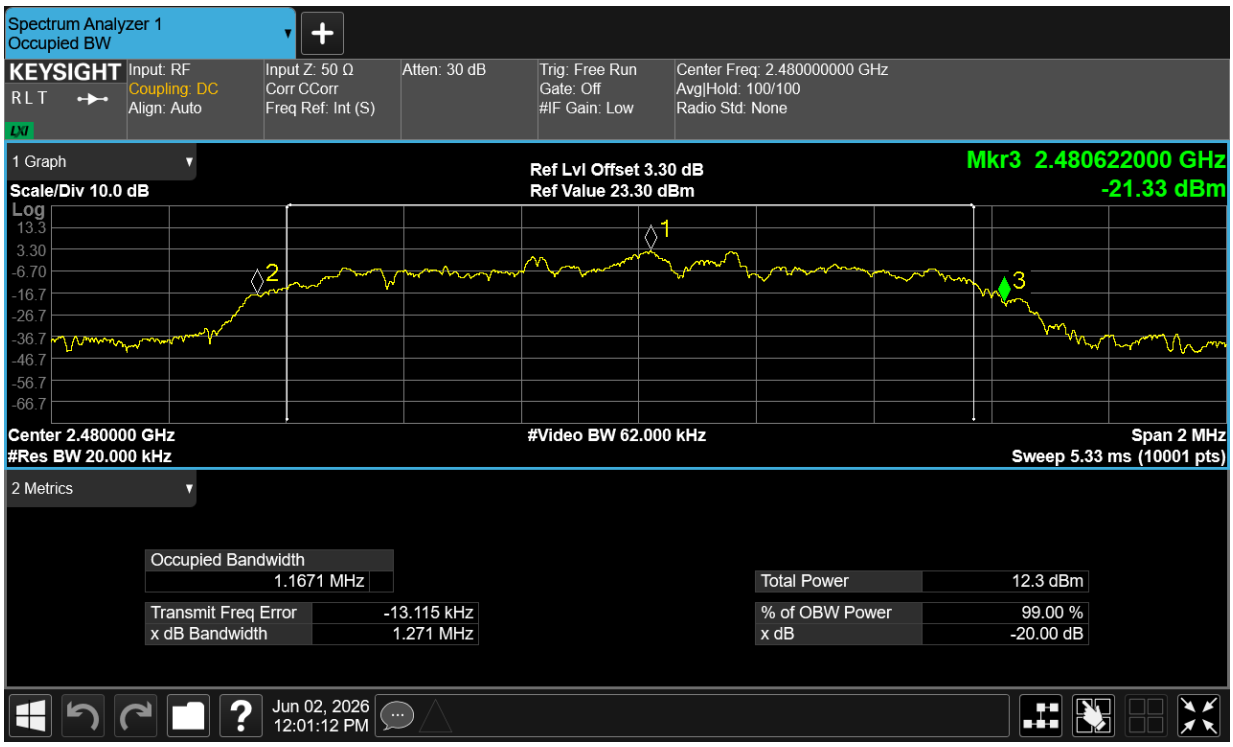
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



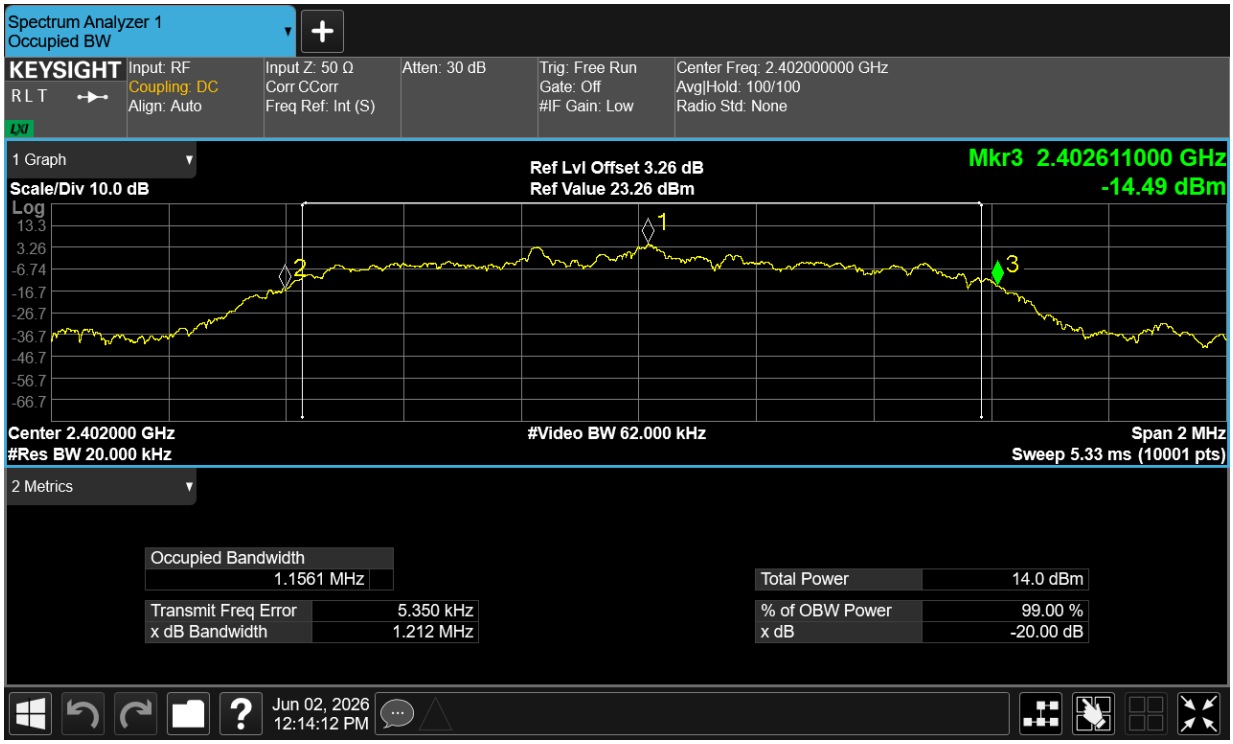
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



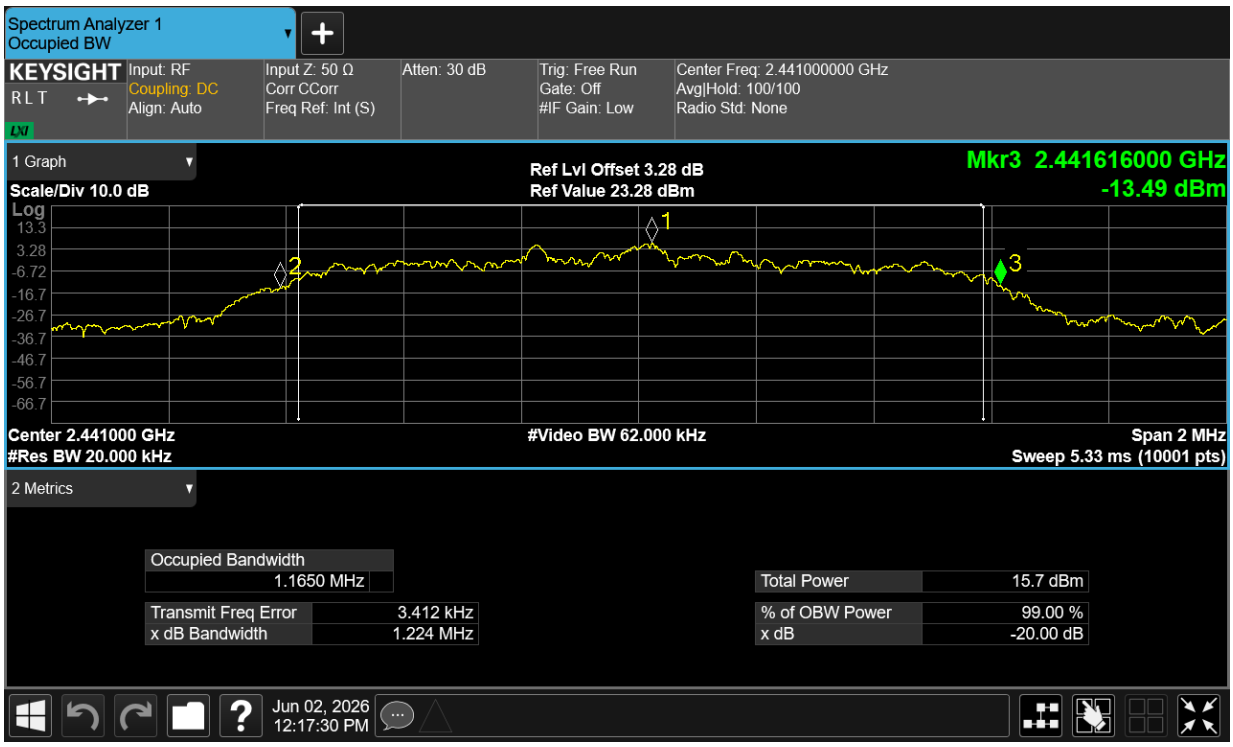
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



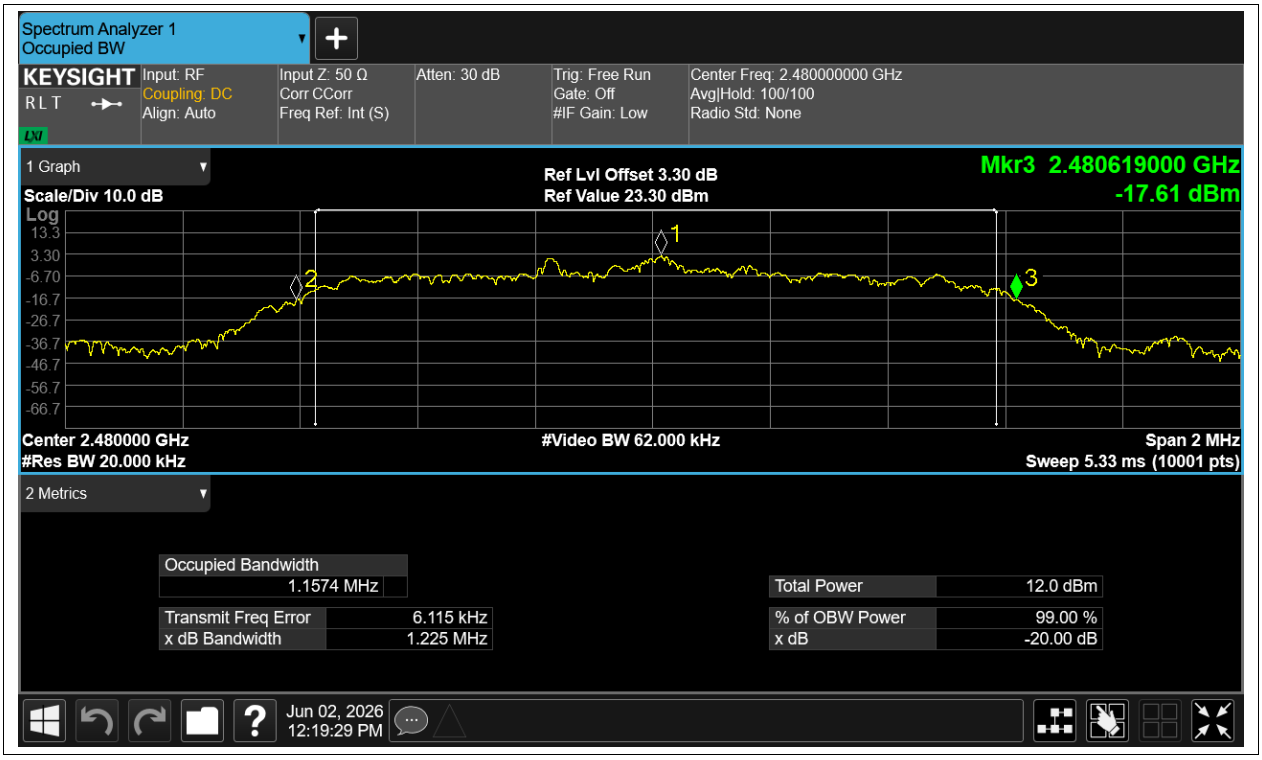
-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2480MHz Ant1

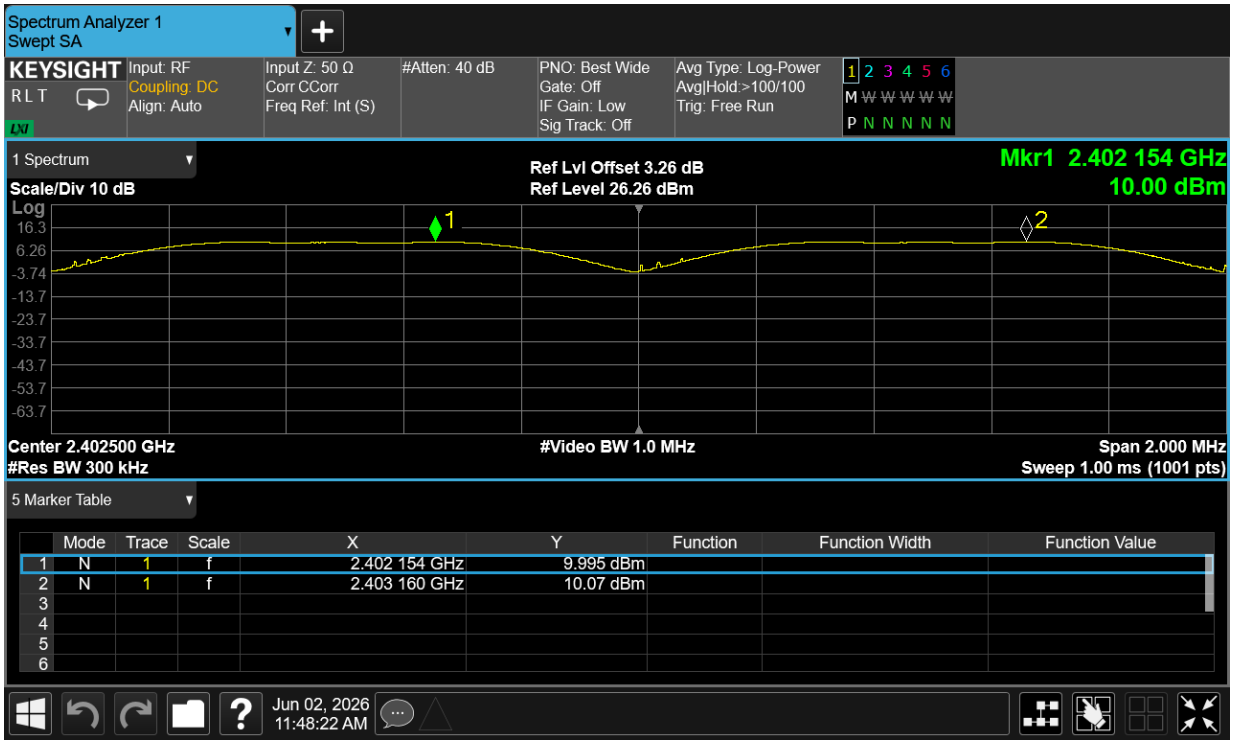

Spectrum Analyzer 1
Occupied BW
KEYSIGHT
RLT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
Atten: 30 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 2.480000000 GHz
Avg|Hold: 100/100
Radio Std: None
1 Graph
Ref Lvl Offset 3.30 dB
Ref Value 23.30 dBm
Mkr3 2.480619000 GHz
-17.61 dBm
Scale/Div 10.0 dB
Log
13.3
3.30
-6.70
-16.7
-26.7
-36.7
-46.7
-56.7
-66.7
Center 2.480000 GHz
#Res BW 20.000 kHz
#Video BW 62.000 kHz
Span 2 MHz
Sweep 5.33 ms (10001 pts)
2 Metrics
Occupied Bandwidth
1.1574 MHz
Transmit Freq Error 6.115 kHz
x dB Bandwidth 1.225 MHz
Total Power 12.0 dBm
% of OBW Power 99.00 %
x dB -20.00 dB
Jun 02, 2026
12:19:29 PM

Carrier Frequencies Separation

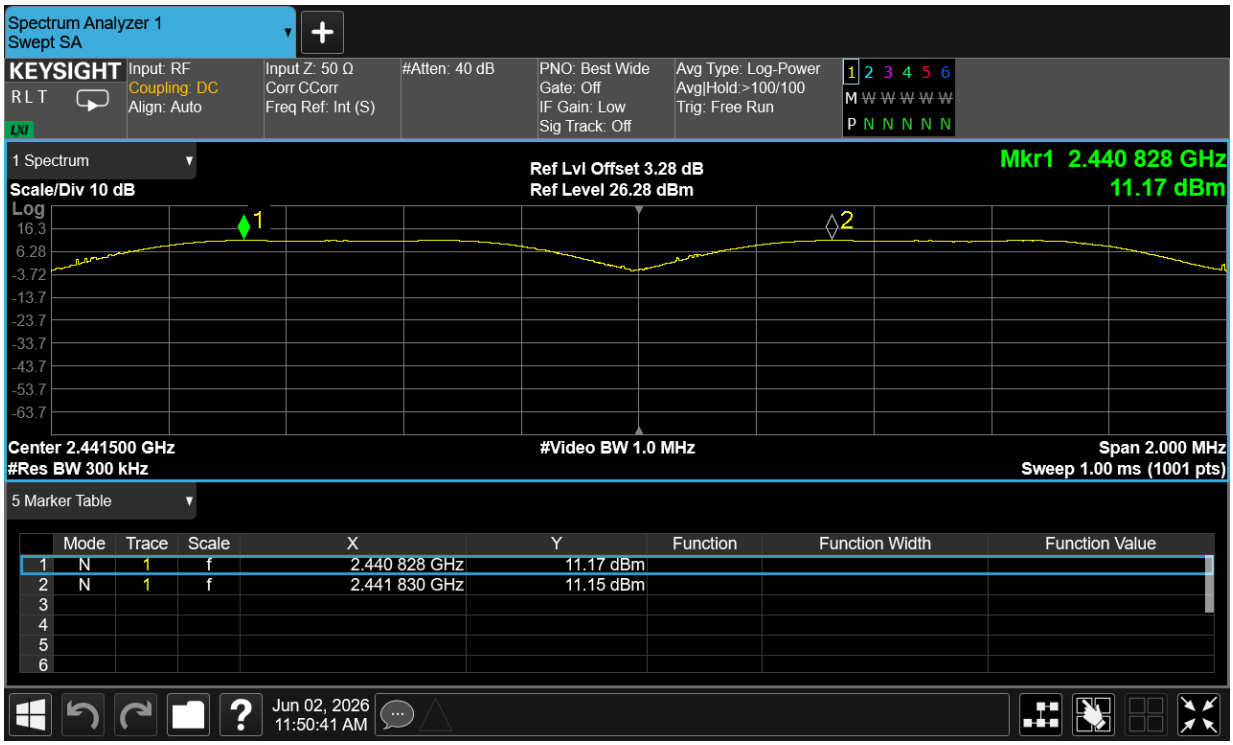
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2402.154	2403.16	1.006	0.914	Pass
NVNT	1-DH1	Ant1	2440.828	2441.83	1.002	0.915	Pass
NVNT	1-DH1	Ant1	2478.836	2479.828	0.992	0.877	Pass
NVNT	2-DH1	Ant1	2401.832	2403.162	1.33	0.836	Pass
NVNT	2-DH1	Ant1	2440.84	2442.154	1.314	0.828	Pass
NVNT	2-DH1	Ant1	2479.158	2480.156	0.998	0.847	Pass
NVNT	3-DH1	Ant1	2401.822	2403.148	1.326	0.808	Pass
NVNT	3-DH1	Ant1	2440.83	2441.836	1.006	0.816	Pass
NVNT	3-DH1	Ant1	2479.166	2480.158	0.992	0.817	Pass

Test Graphs

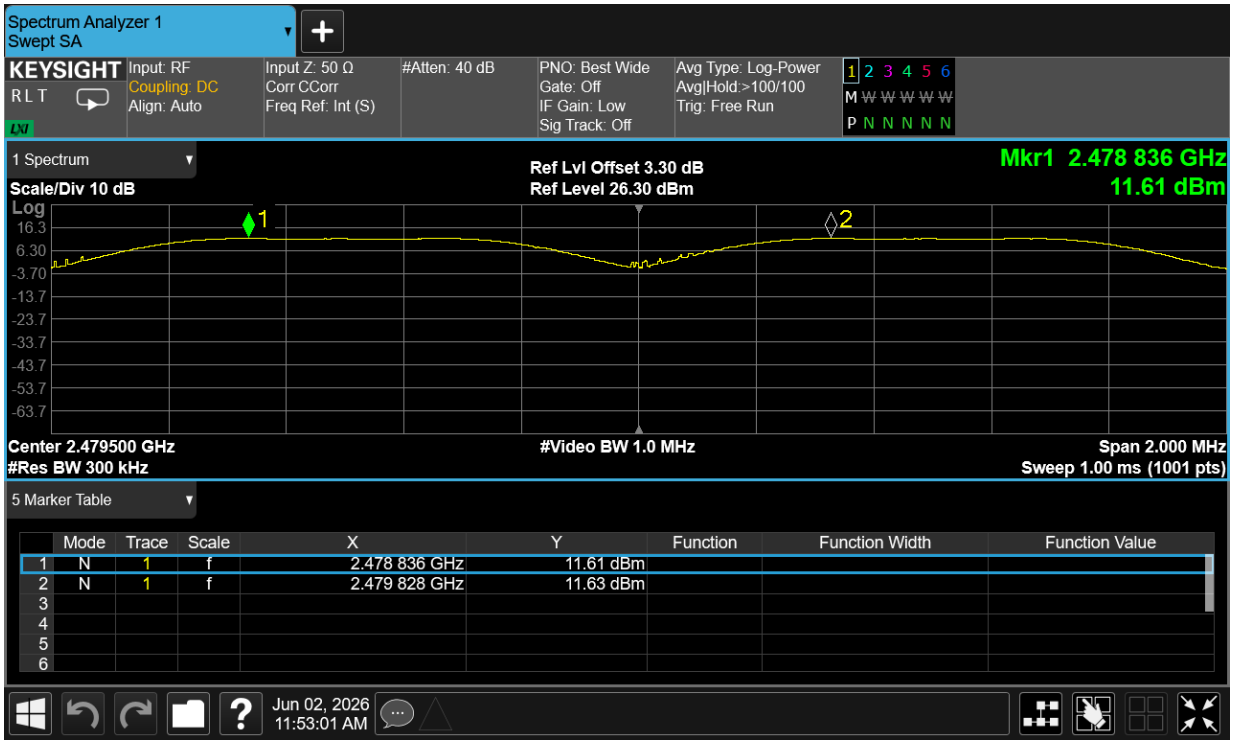
CFS NVNT 1-DH1 2402MHz Ant1



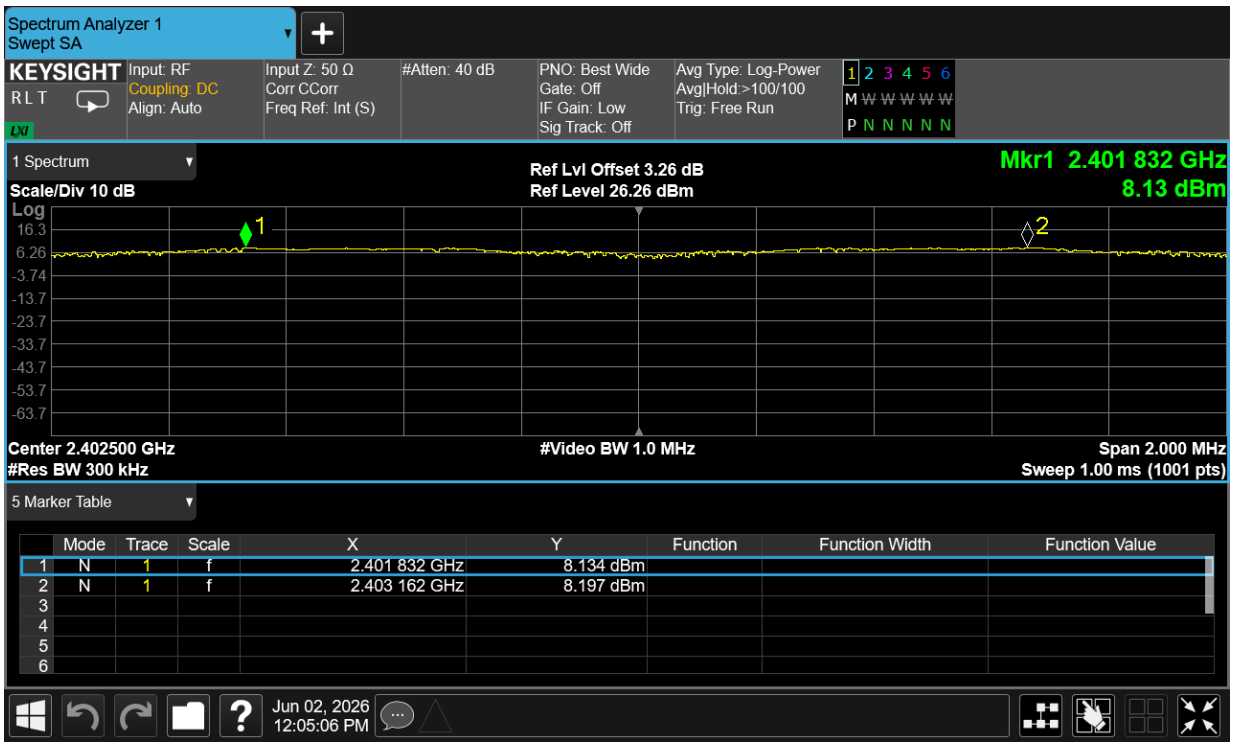
CFS NVNT 1-DH1 2441MHz Ant1



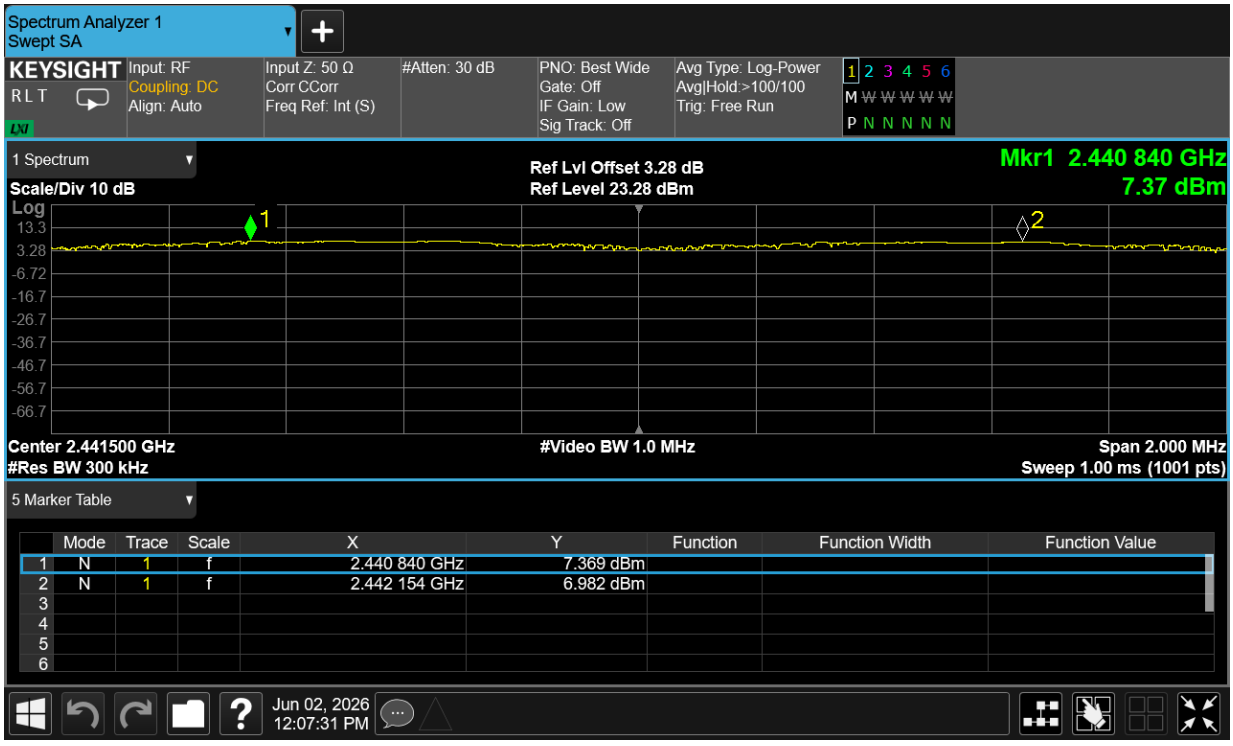
CFS NVNT 1-DH1 2480MHz Ant1



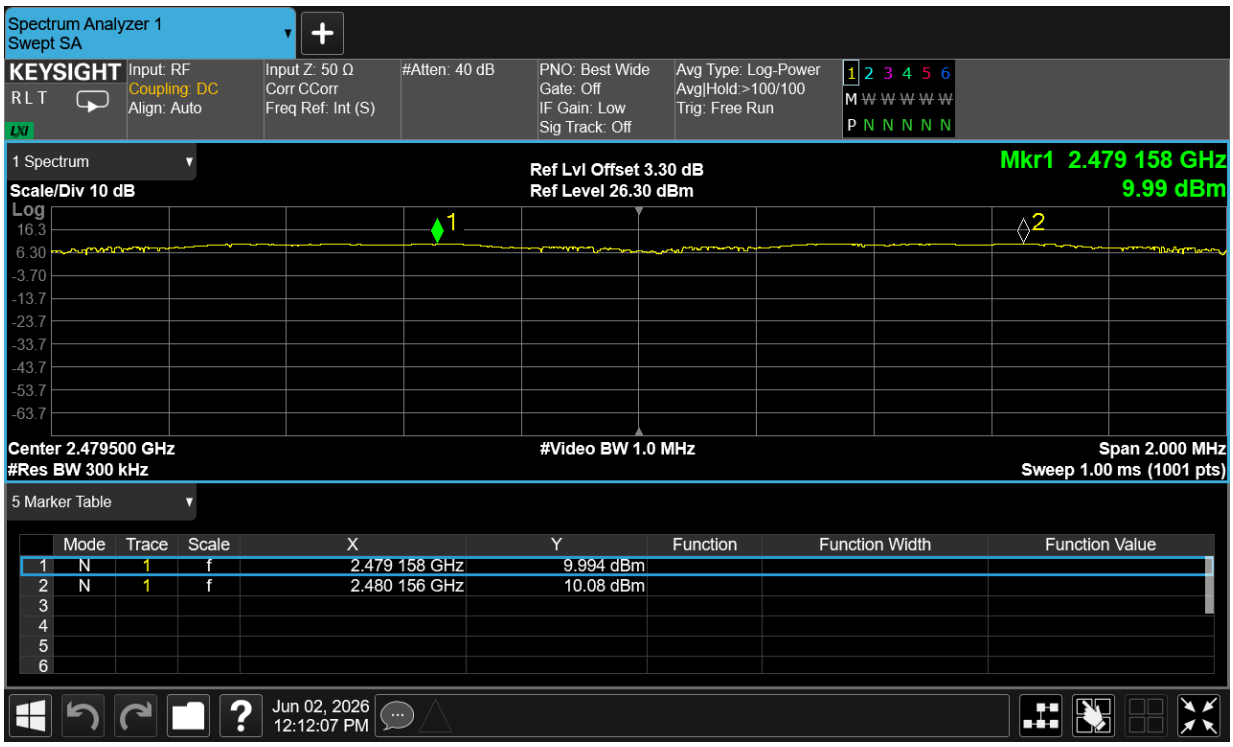
CFS NVNT 2-DH1 2402MHz Ant1



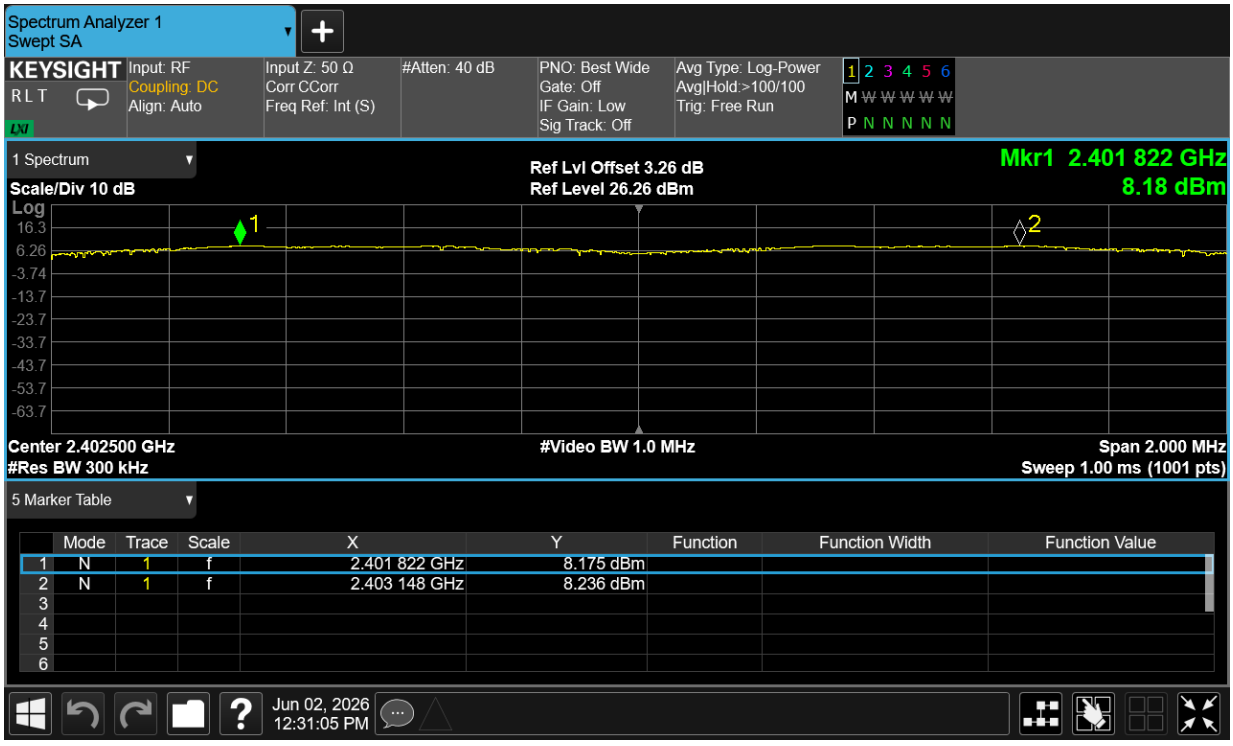
CFS NVNT 2-DH1 2441MHz Ant1



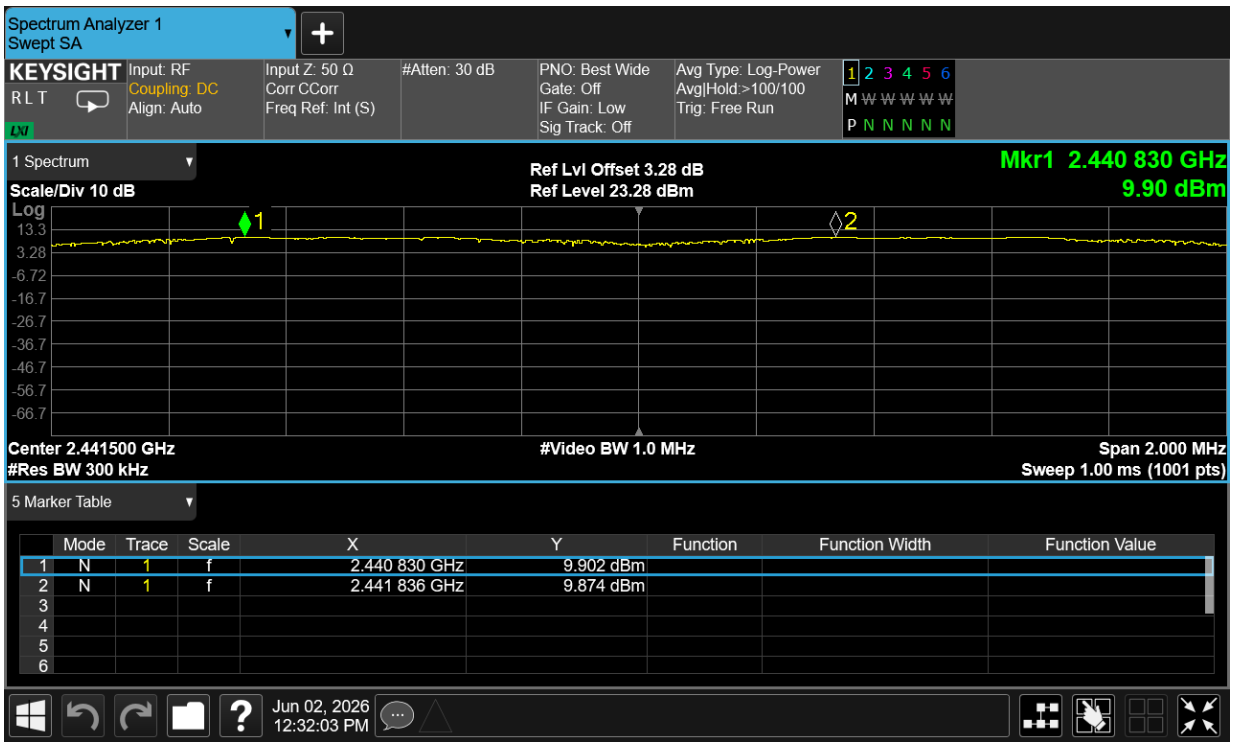
CFS NVNT 2-DH1 2480MHz Ant1



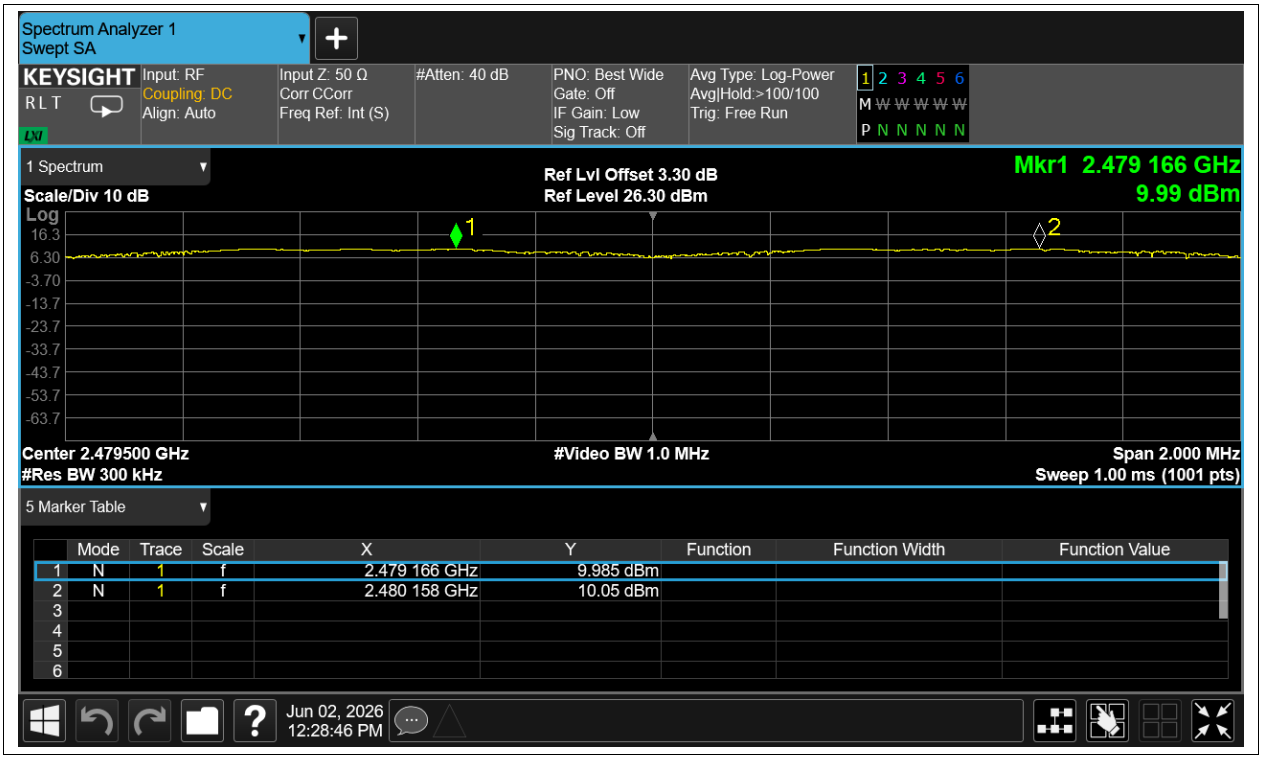
CFS NVNT 3-DH1 2402MHz Ant1



CFS NVNT 3-DH1 2441MHz Ant1



CFS NVNT 3-DH1 2480MHz Ant1

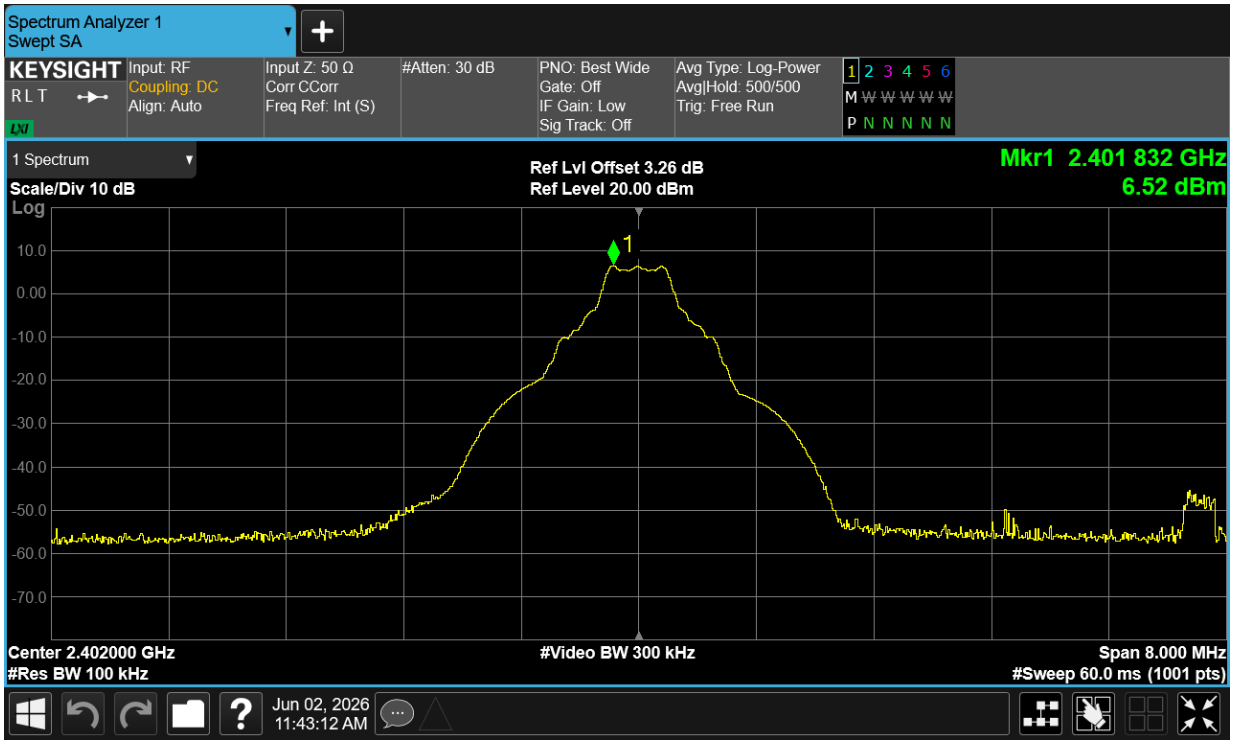

Spectrum Analyzer 1
Swept SA
KEYSIGHT
RLT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold:>100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 3.30 dB
Ref Level 26.30 dBm
Mkr1 2.479 166 GHz
9.99 dBm
Log
16.3
6.30
-3.70
-13.7
-23.7
-33.7
-43.7
-53.7
-63.7
Center 2.479500 GHz
#Res BW 300 kHz
#Video BW 1.0 MHz
Span 2.000 MHz
Sweep 1.00 ms (1001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.479 166 GHz 9.985 dBm
2 N 1 f 2.480 158 GHz 10.05 dBm
Jun 02, 2026
12:28:46 PM

Band Edge

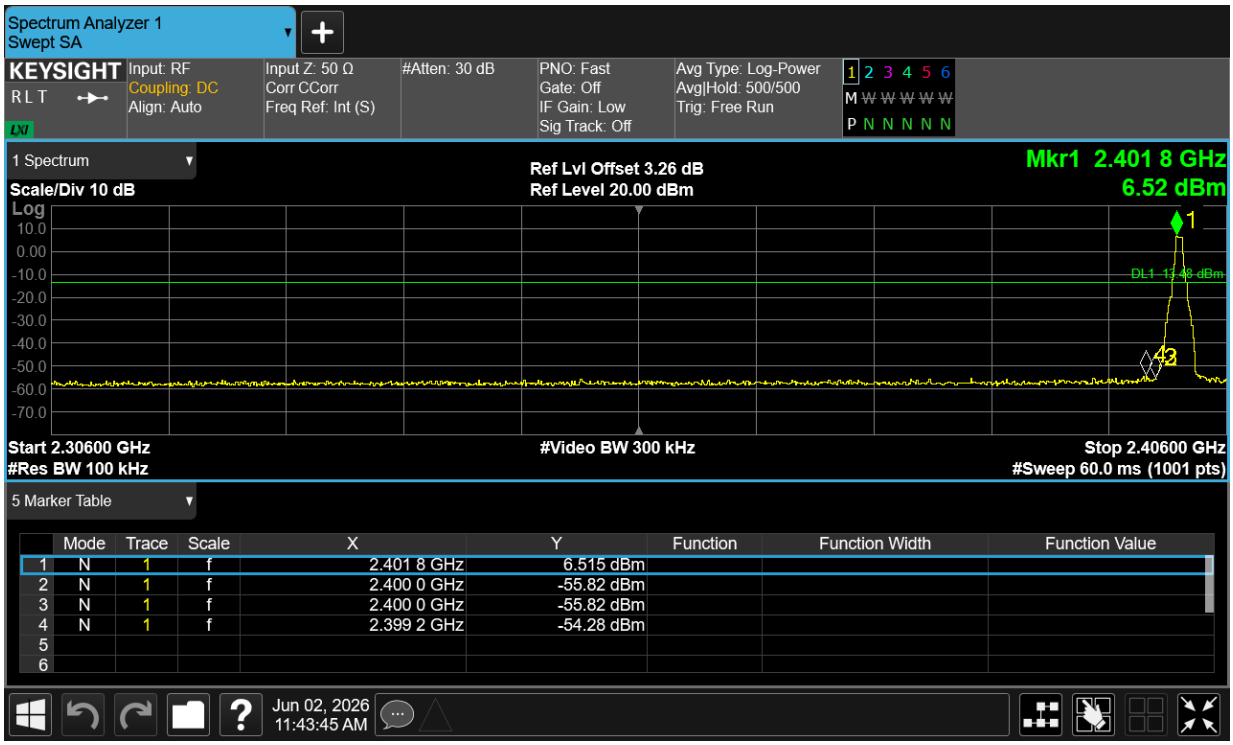
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-60.8	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-60.67	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-49.58	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-61.35	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-49.13	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-61.35	-20	Pass

Test Graphs

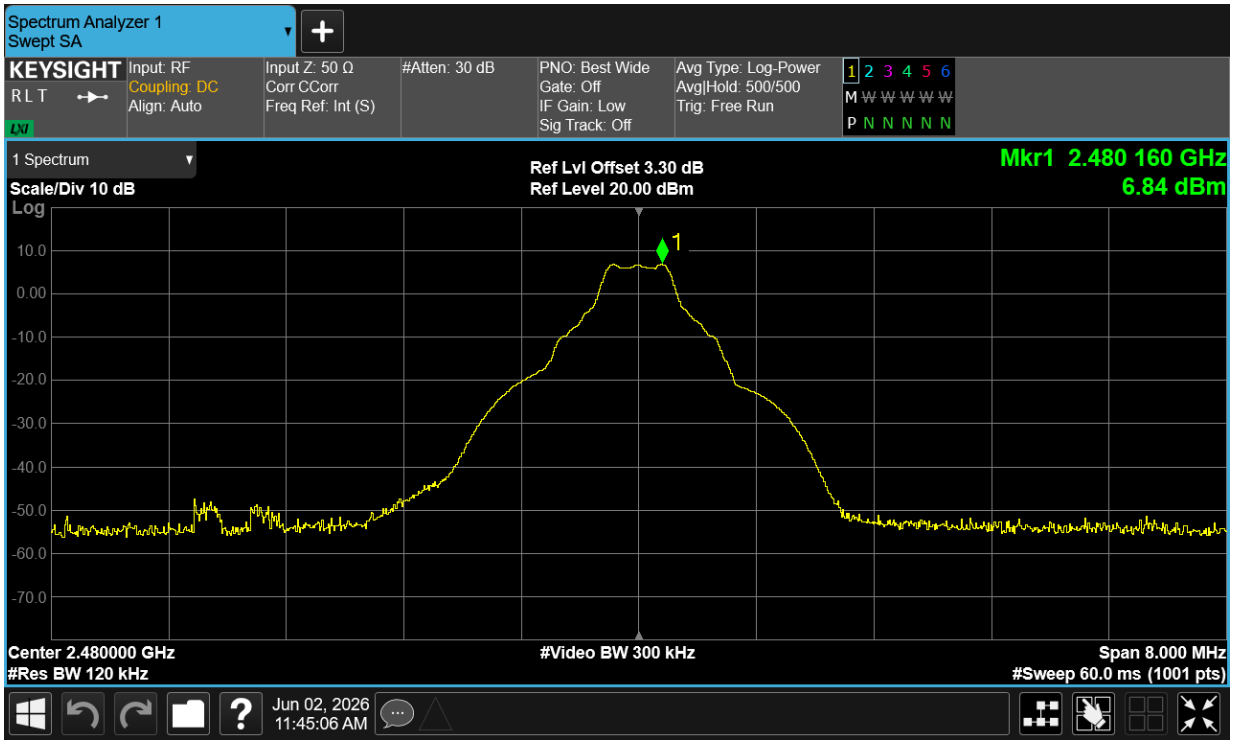
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



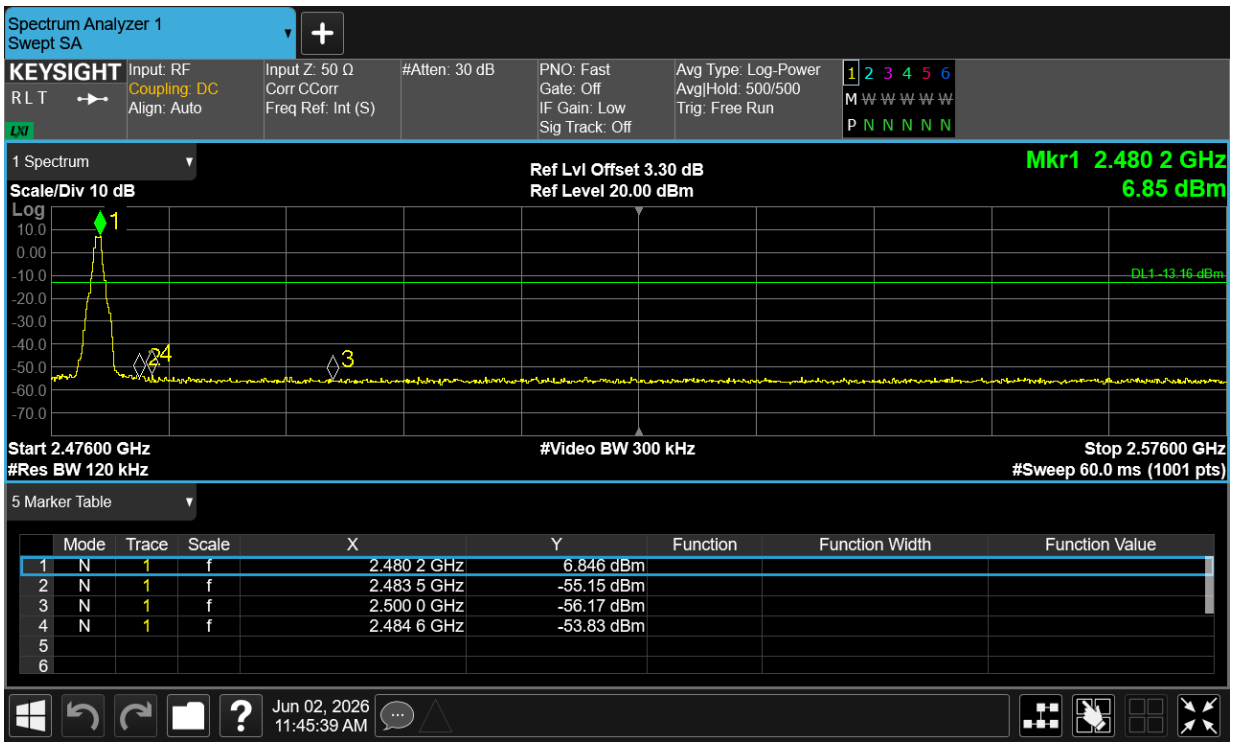
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



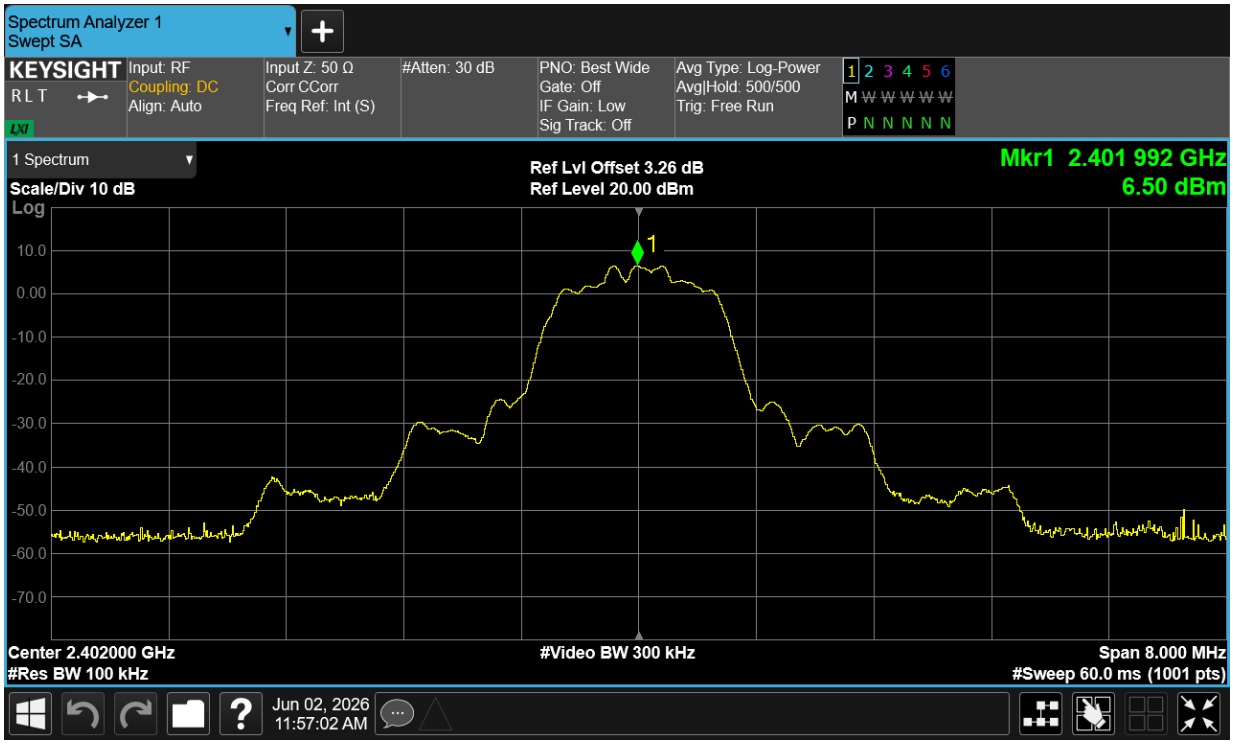
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



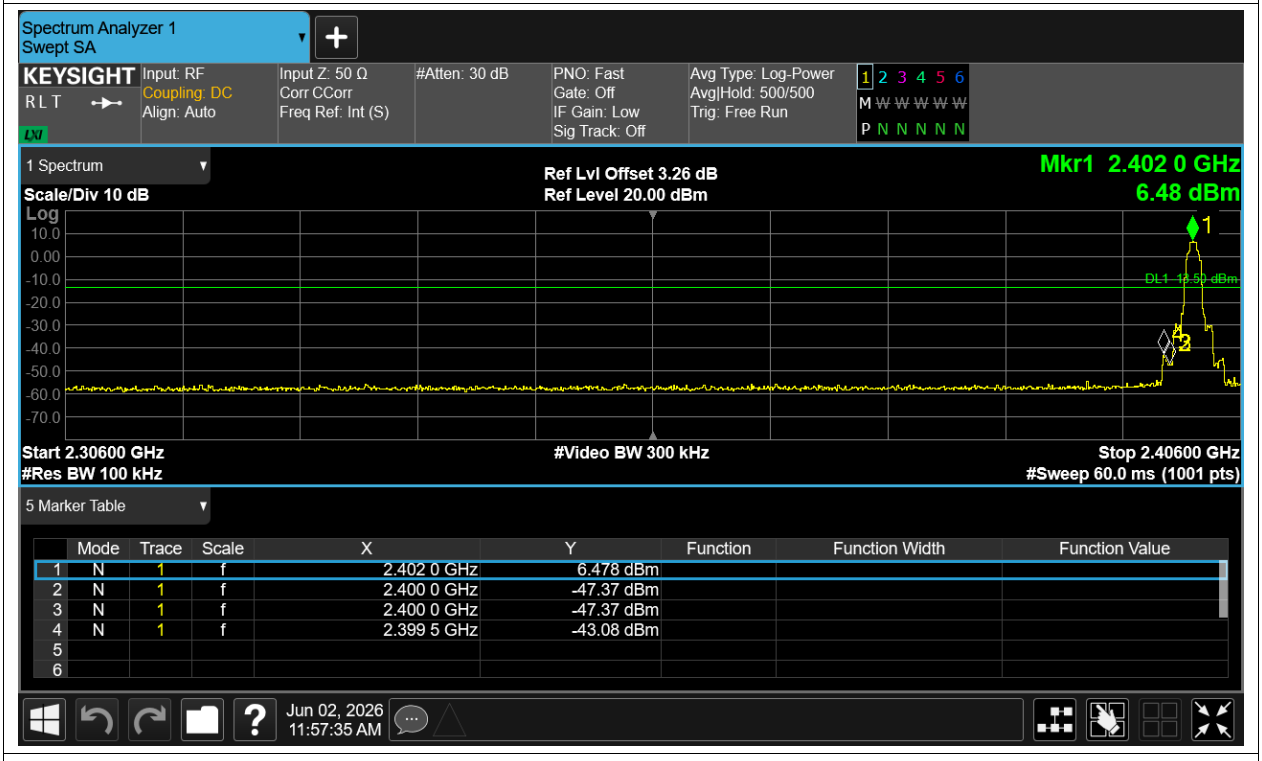
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



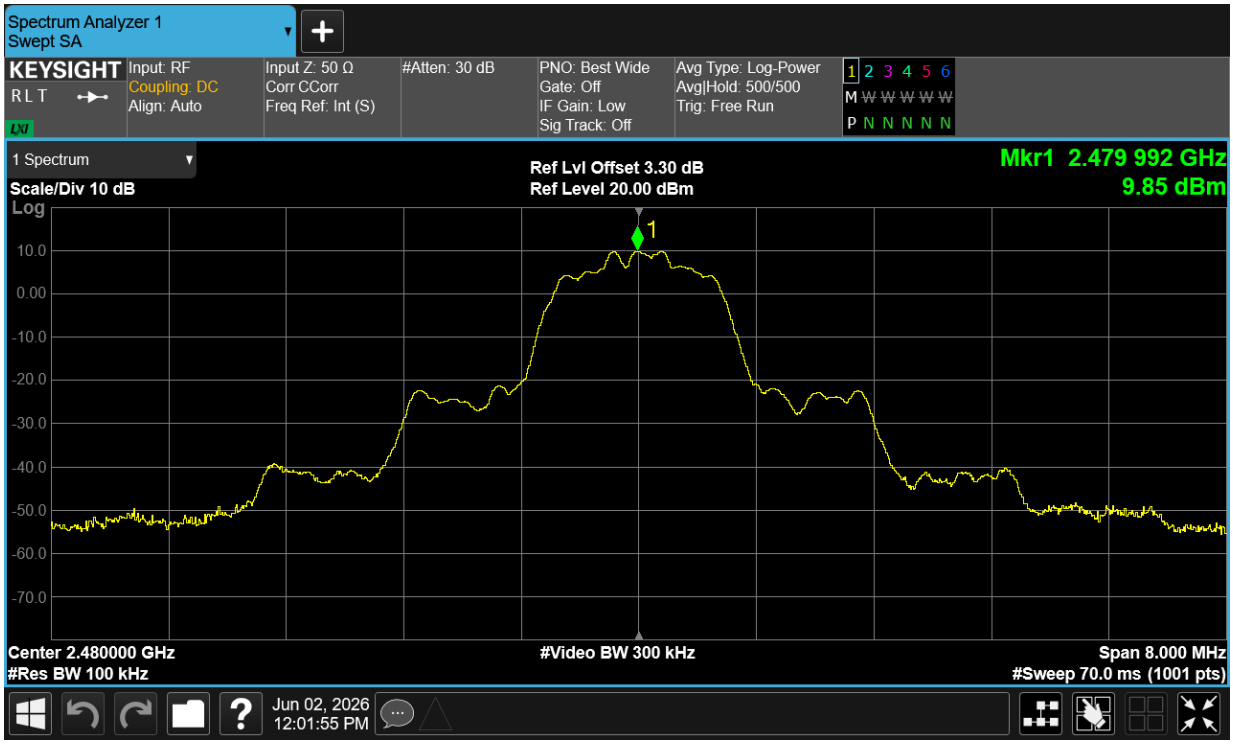
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



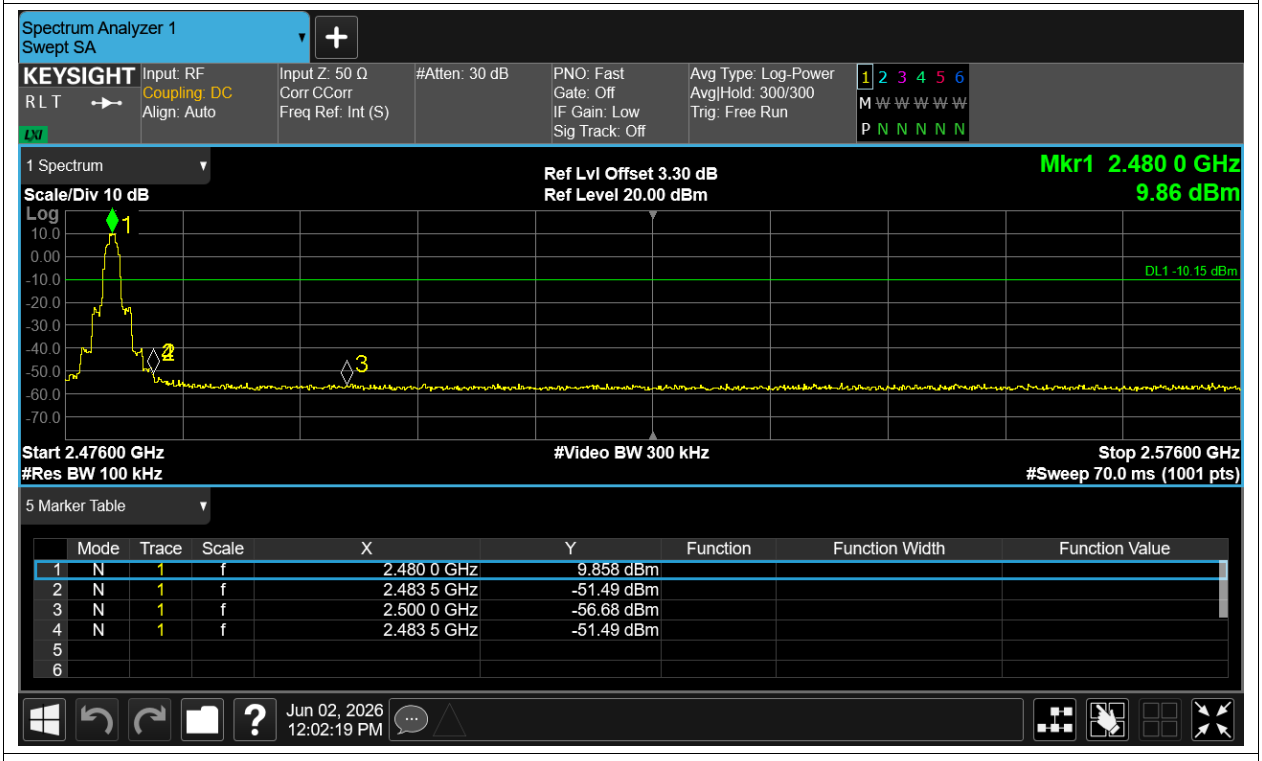
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



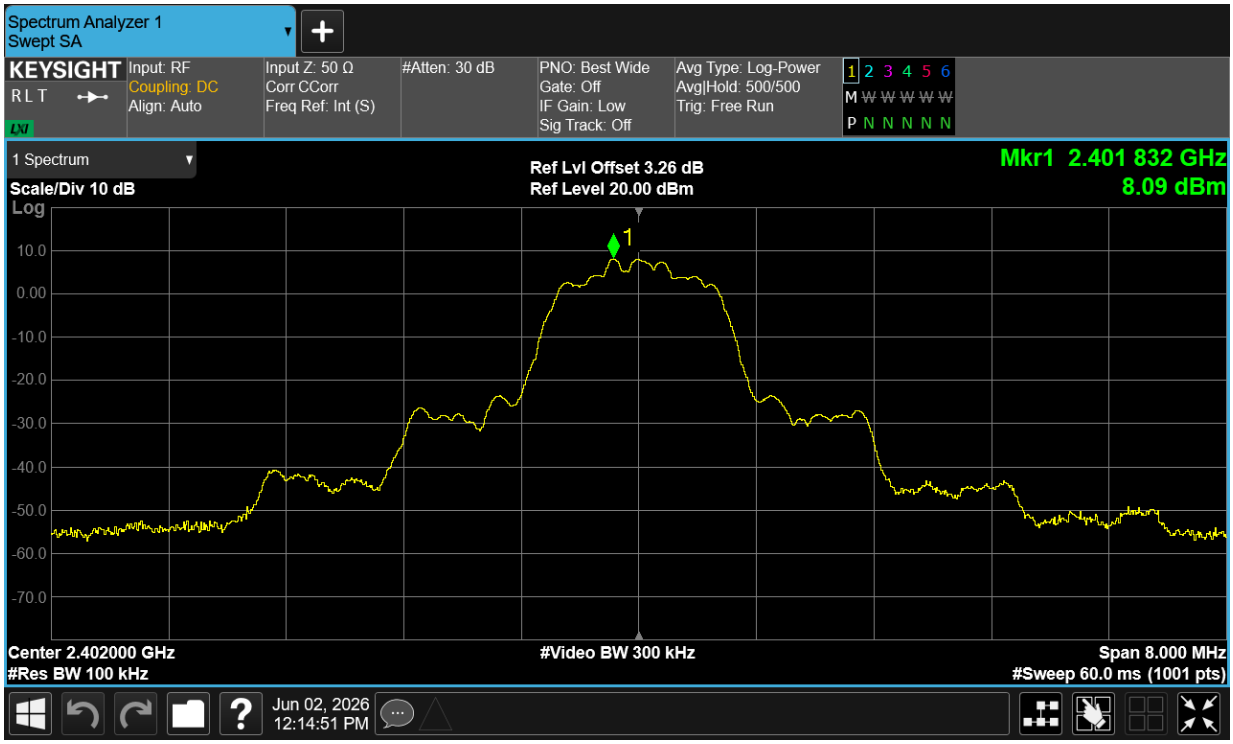
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



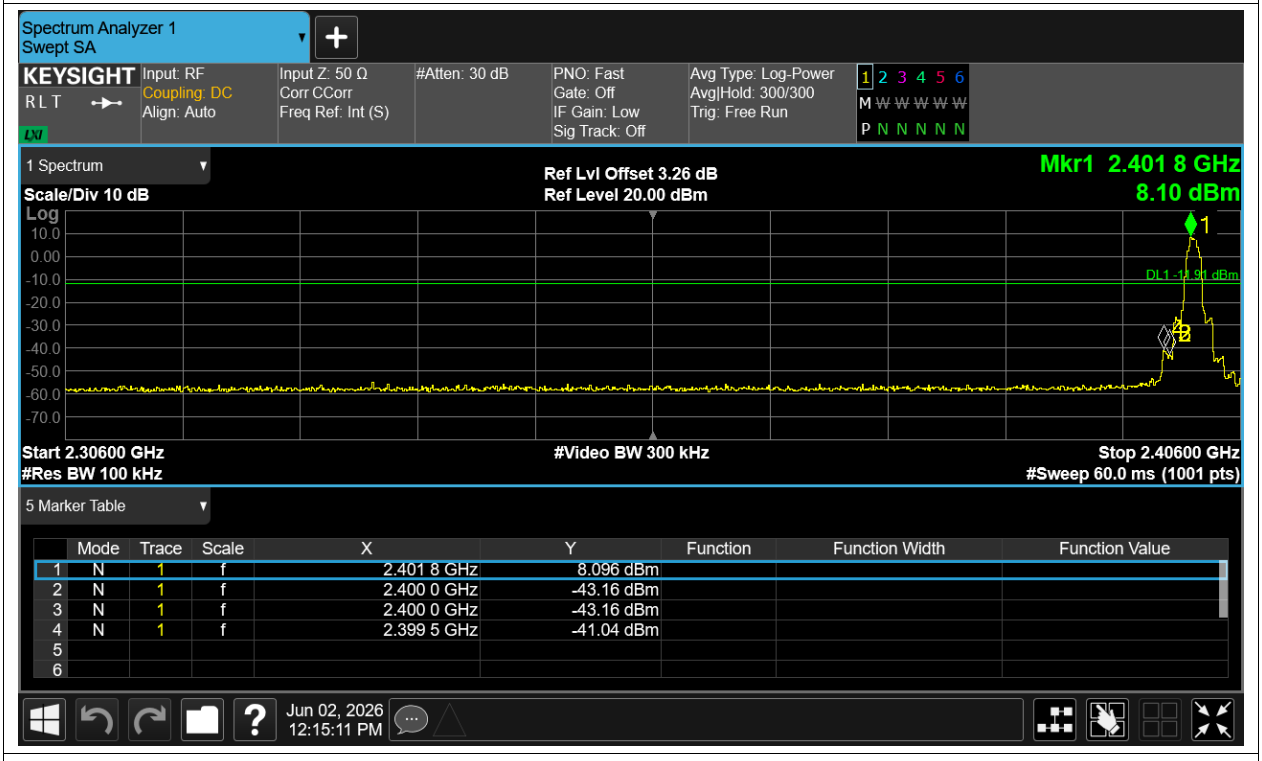
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



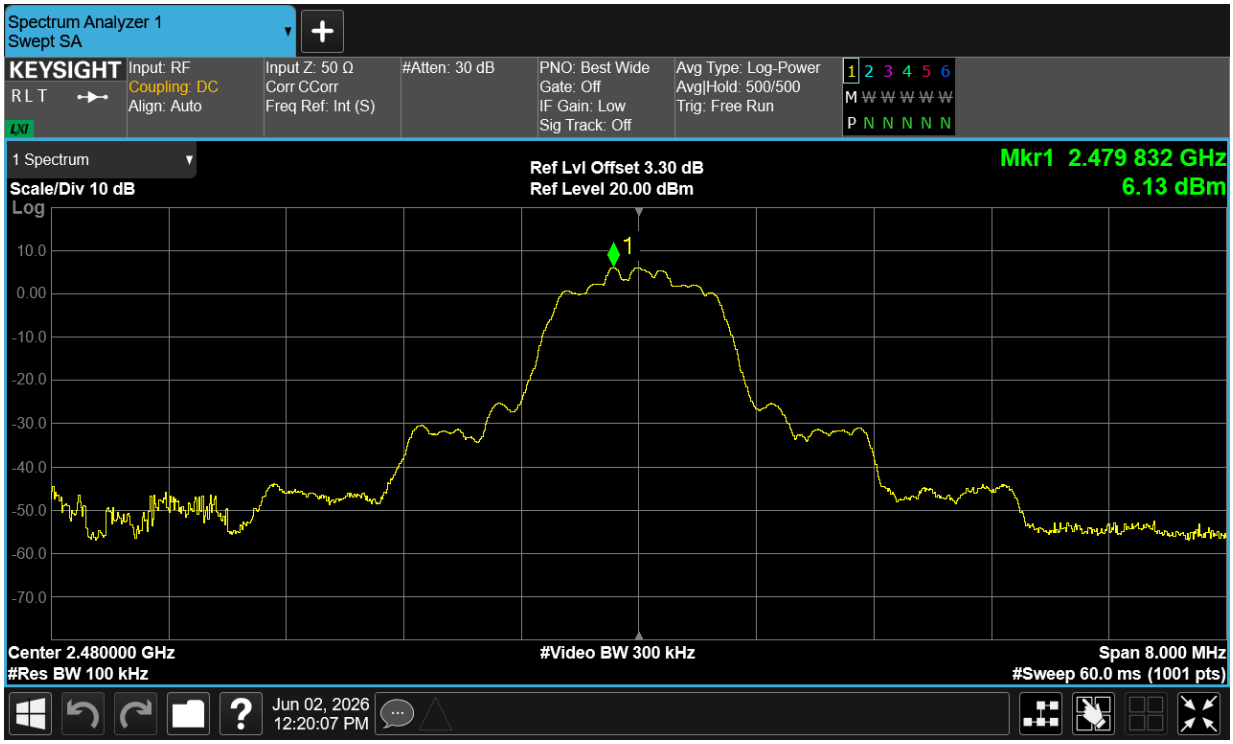
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



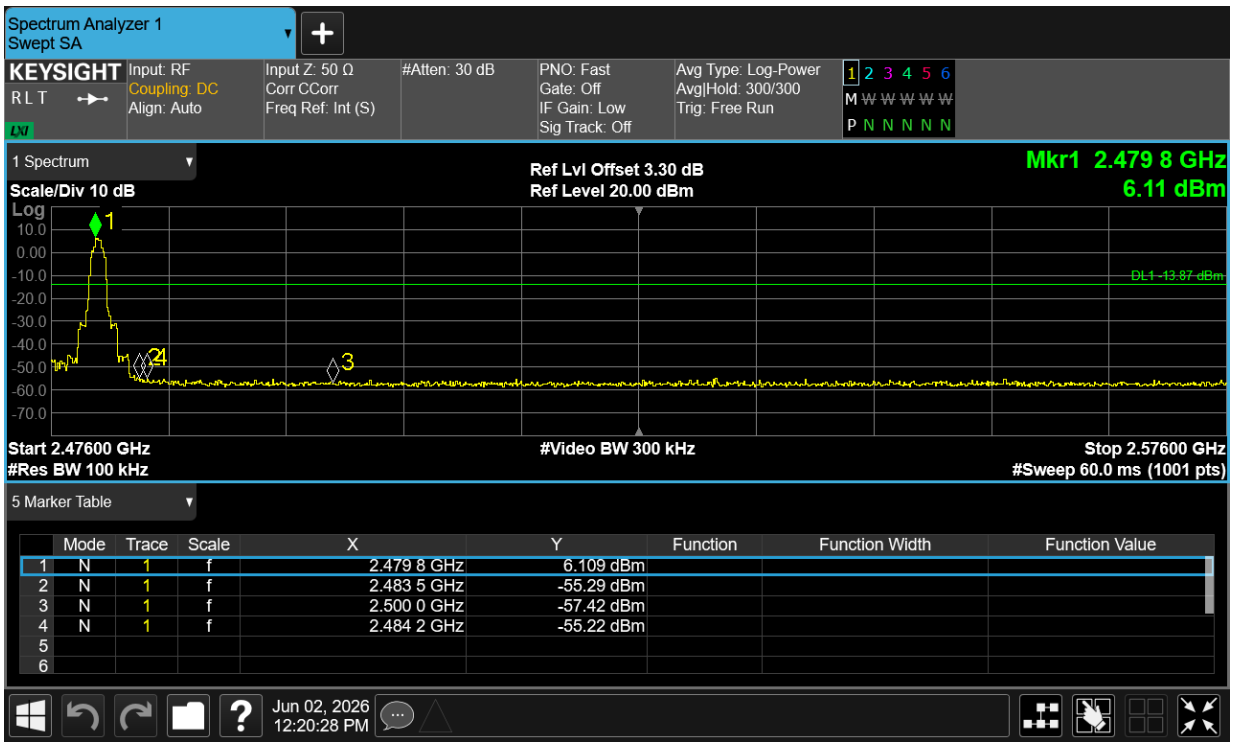
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

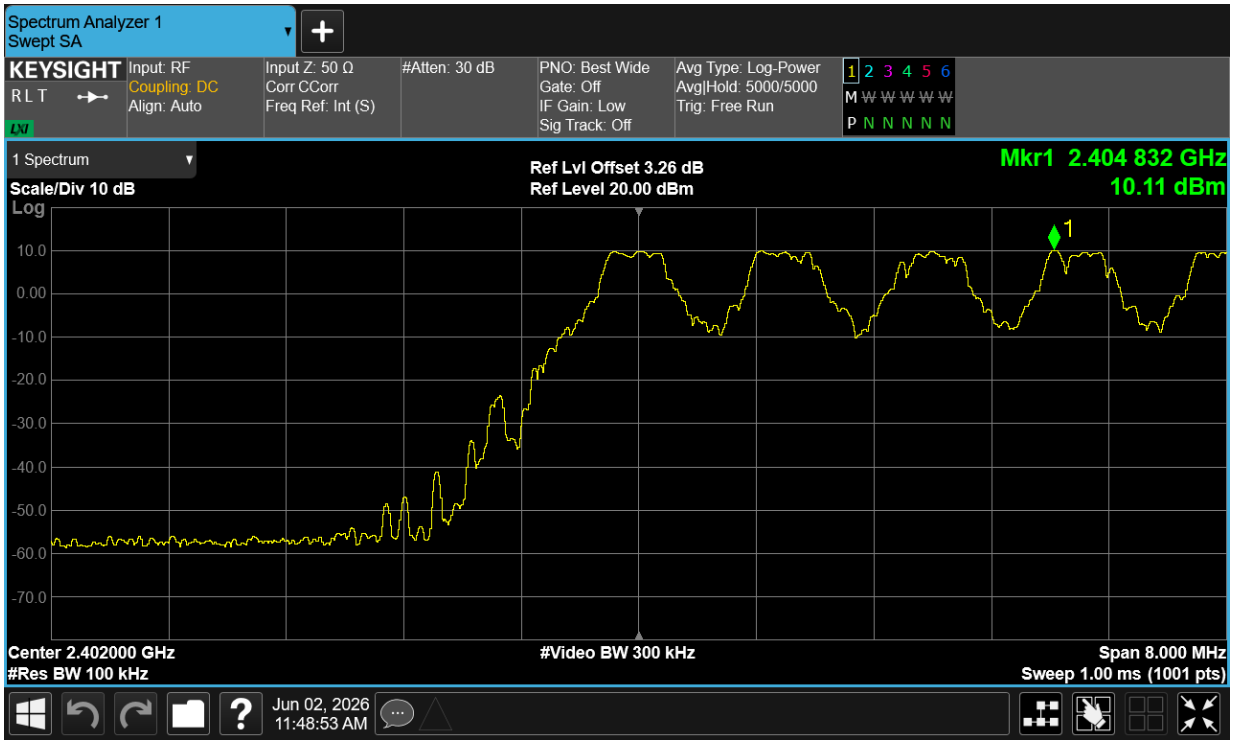


Band Edge(Hopping)

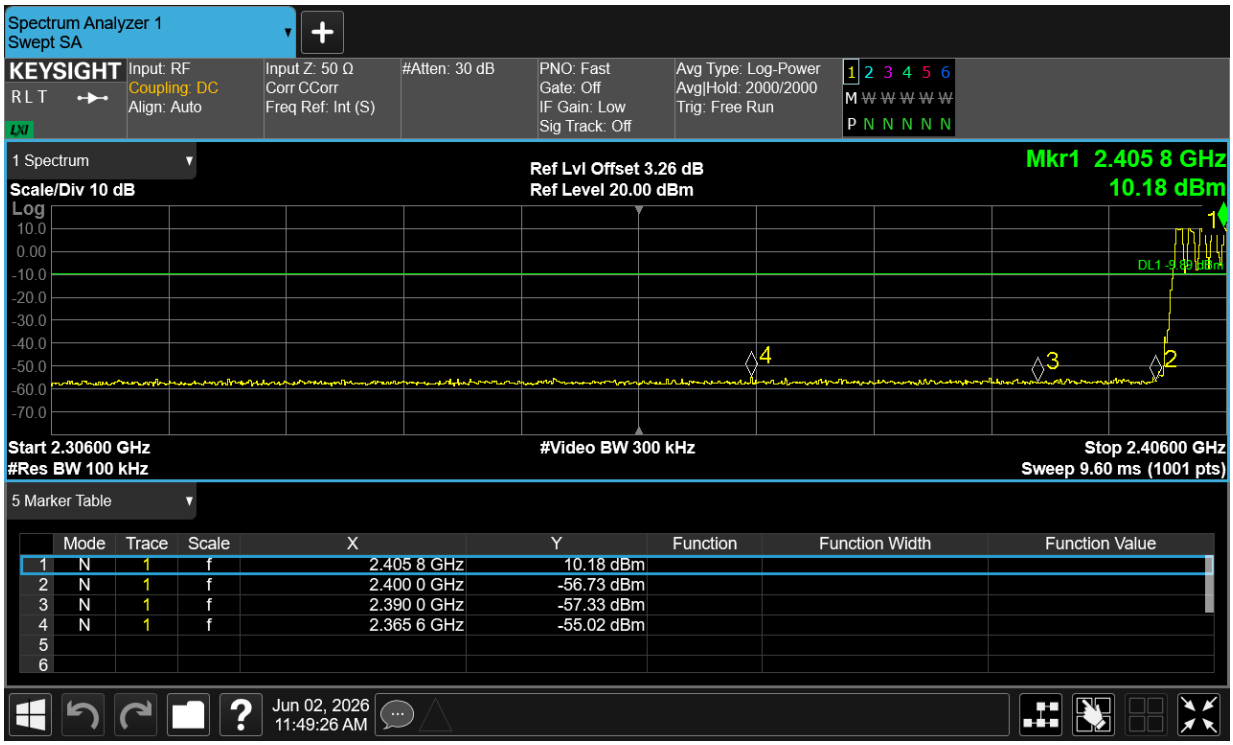
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-65.13	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-65.87	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-61.51	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-63.95	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-61.63	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-62.72	-20	Pass

Test Graphs

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

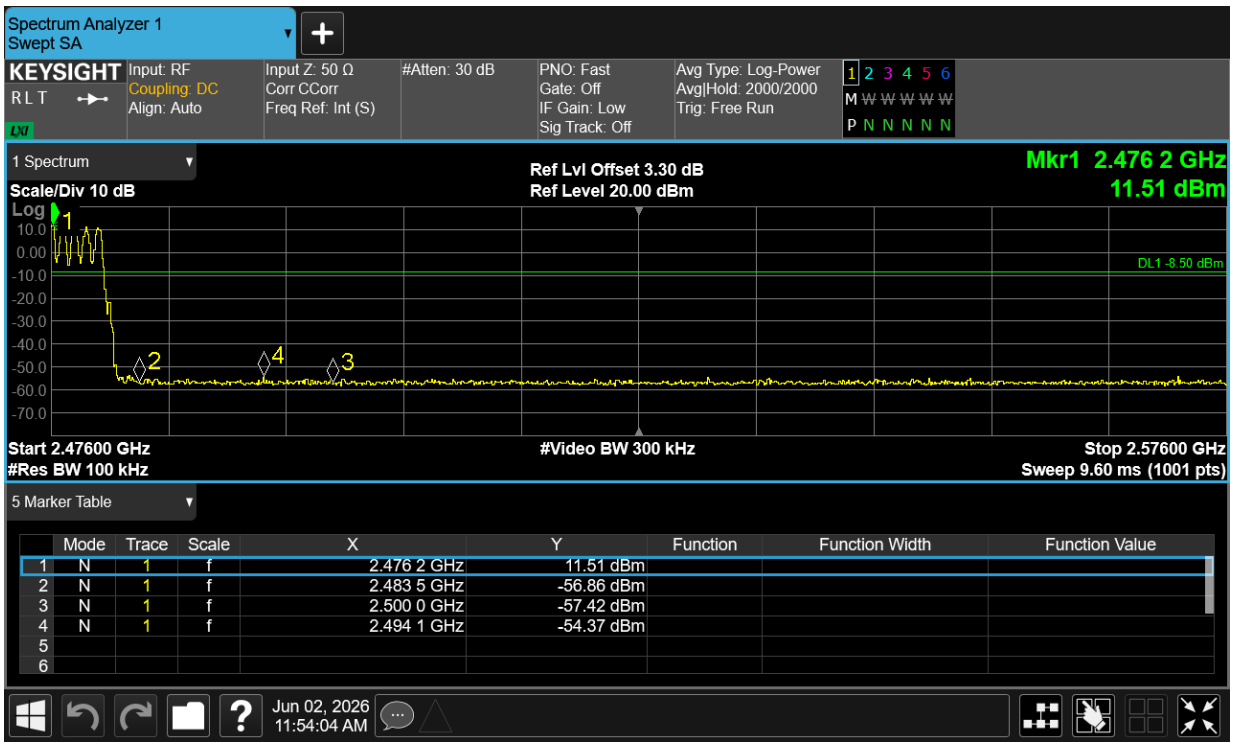


Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission

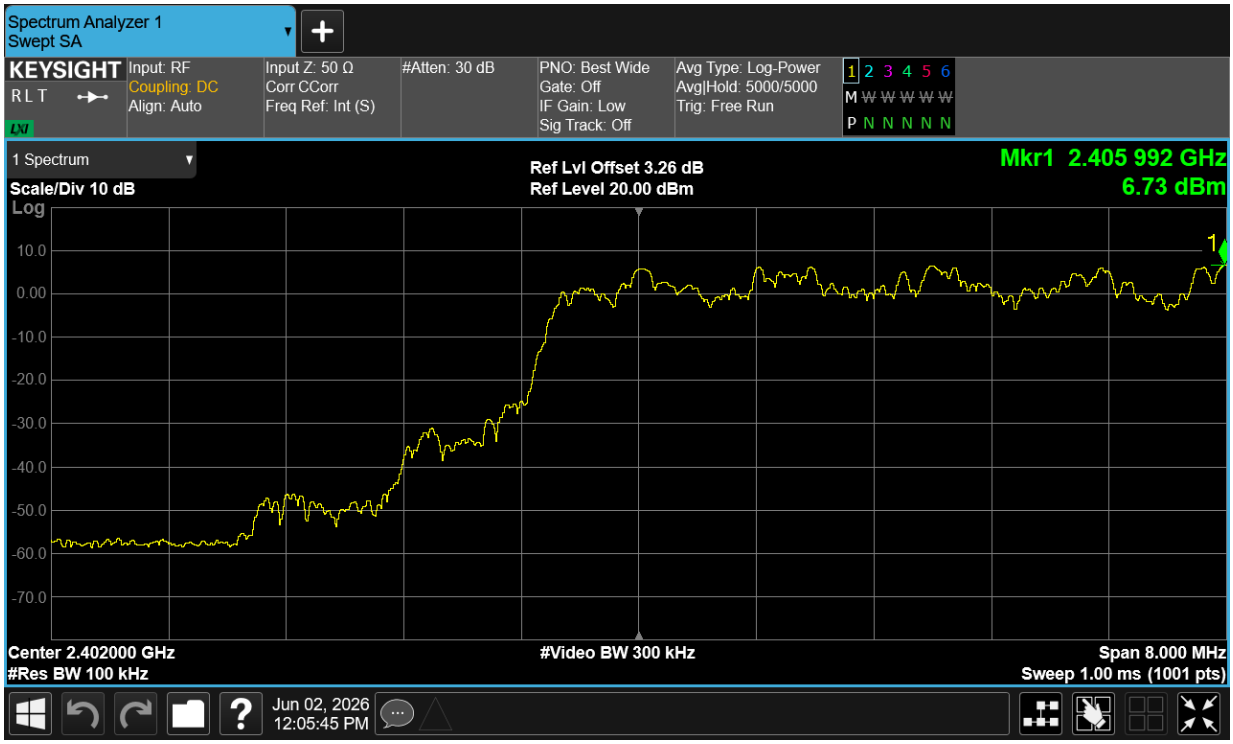


Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref

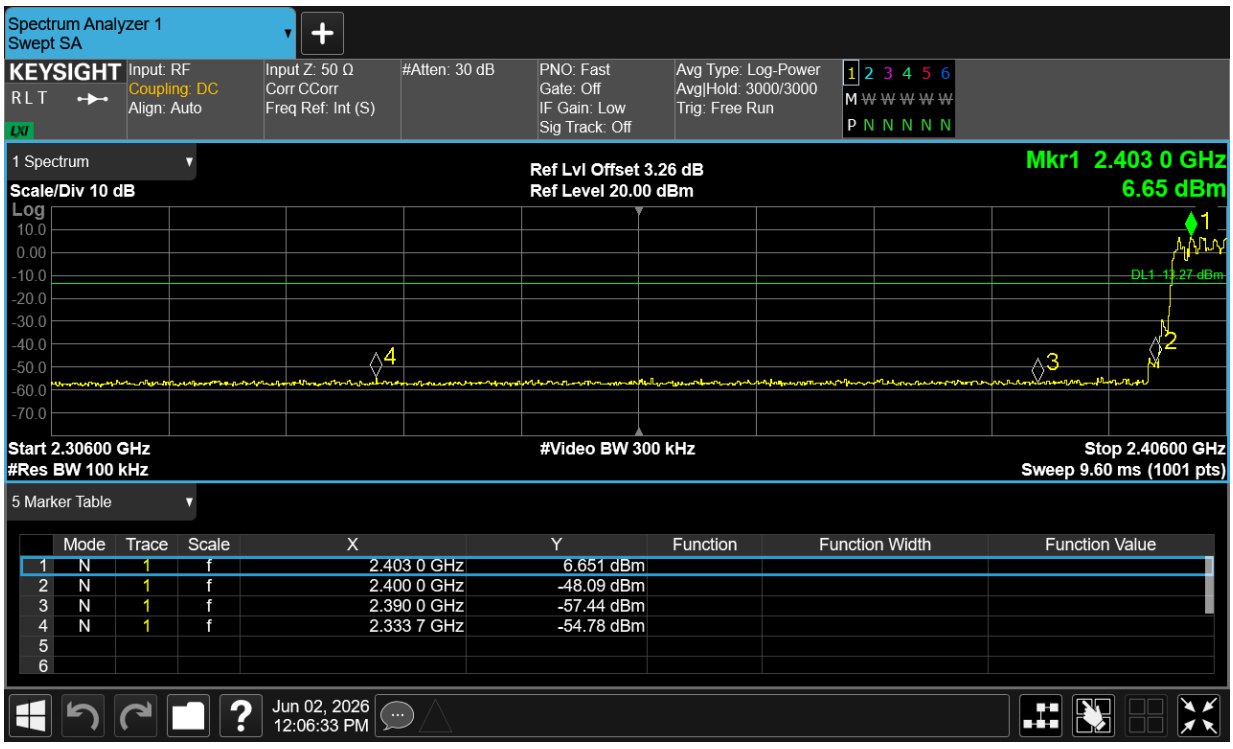
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



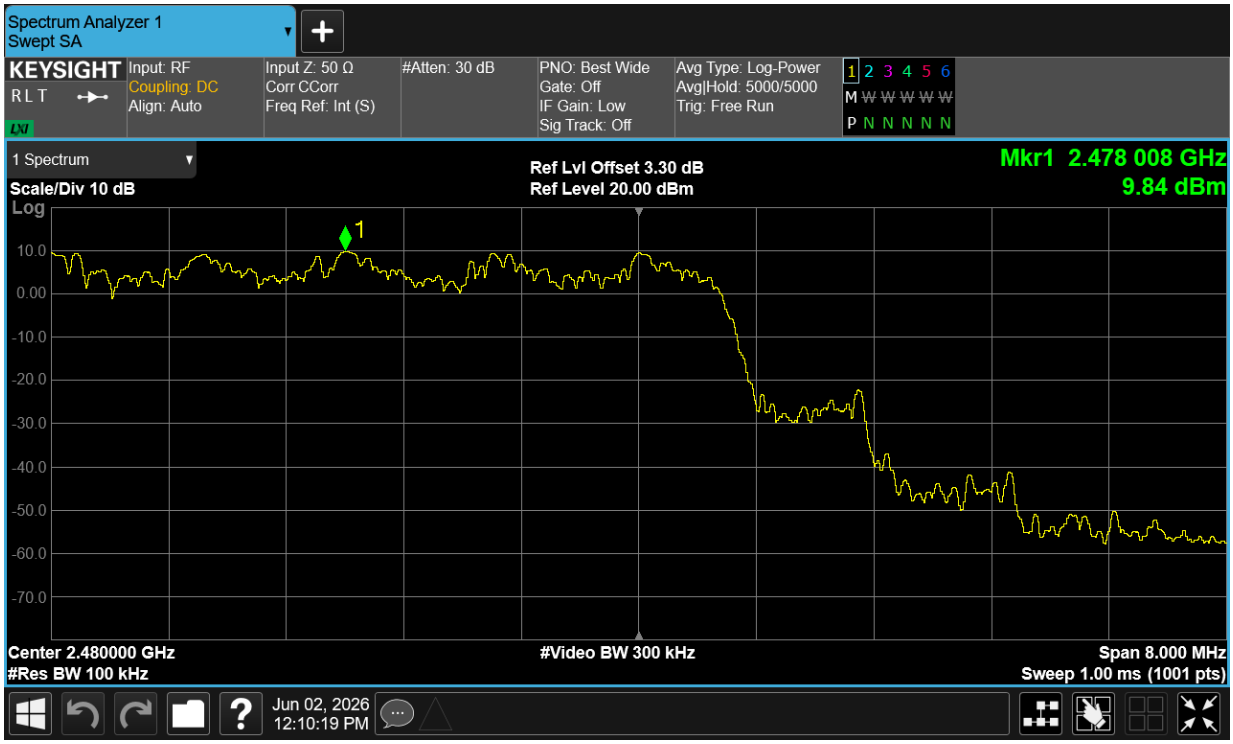
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



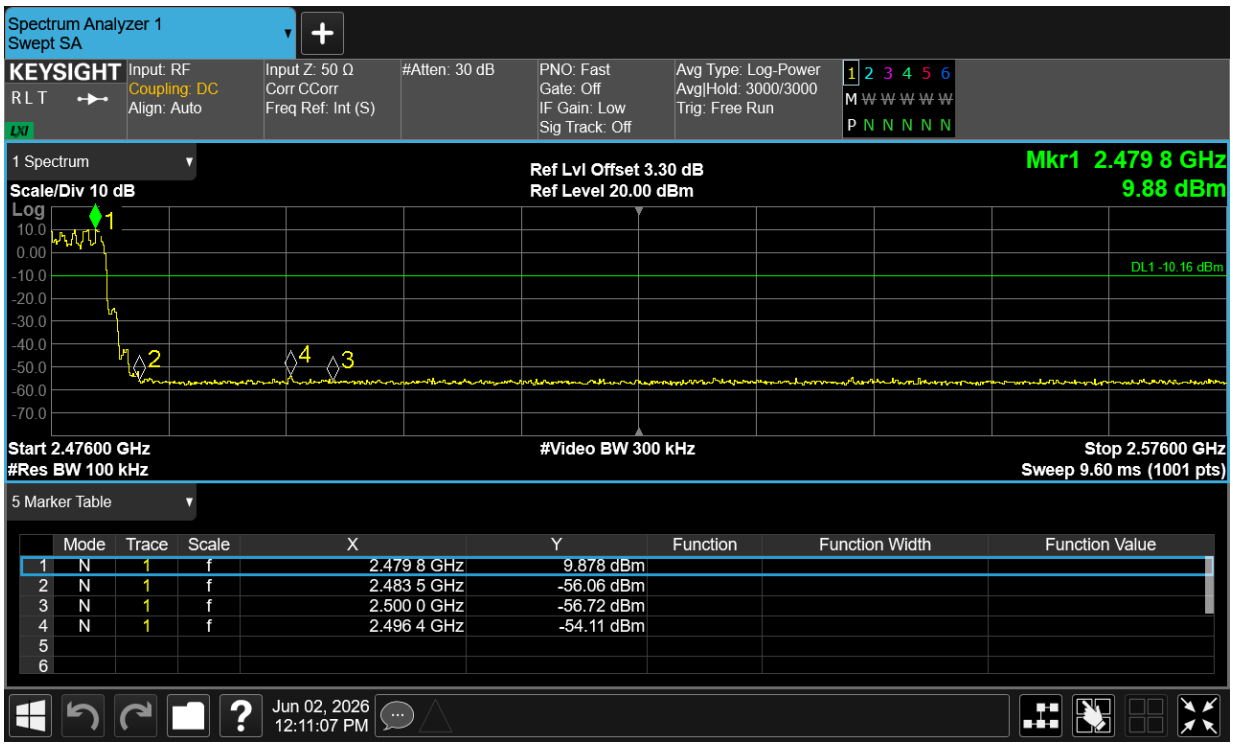
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



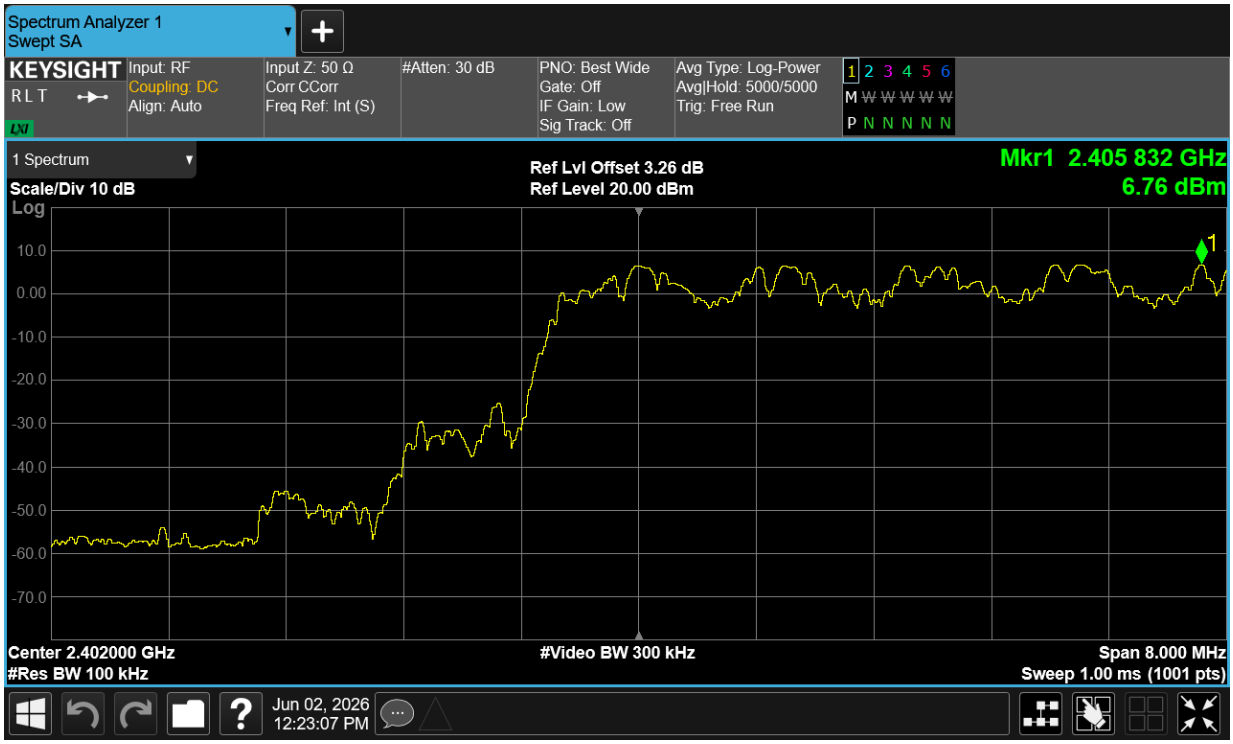
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



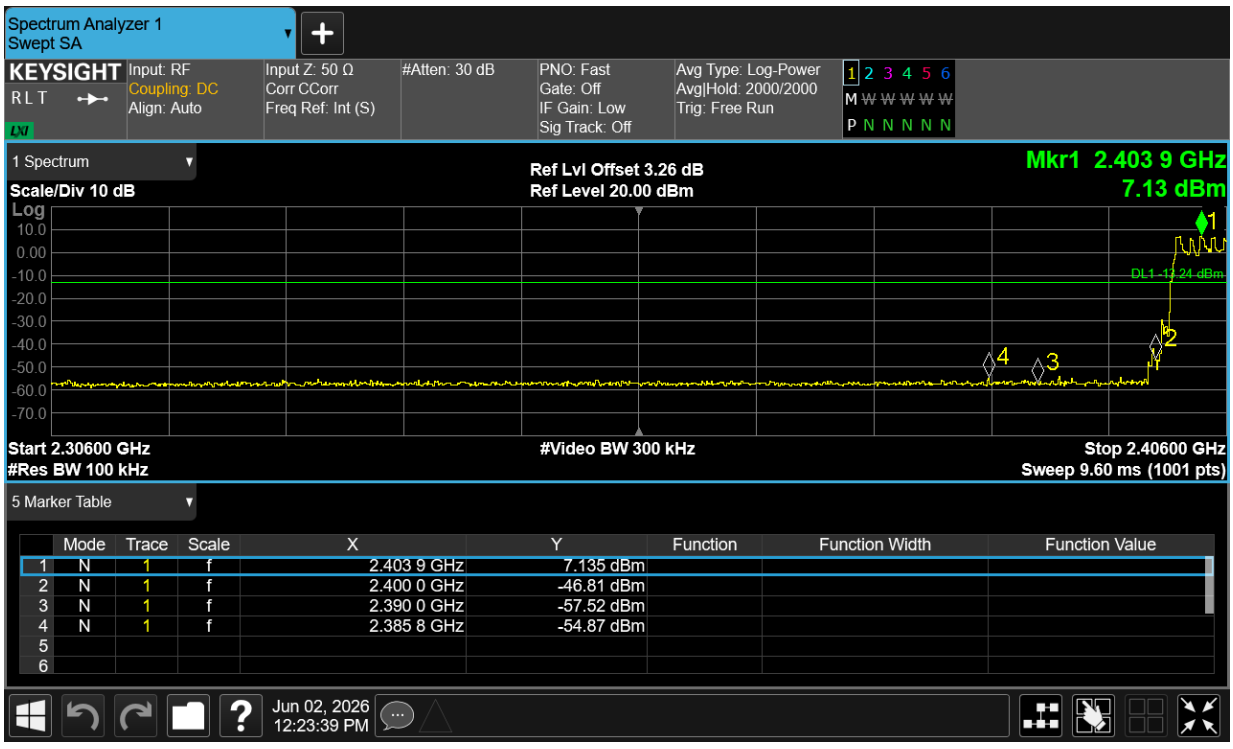
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



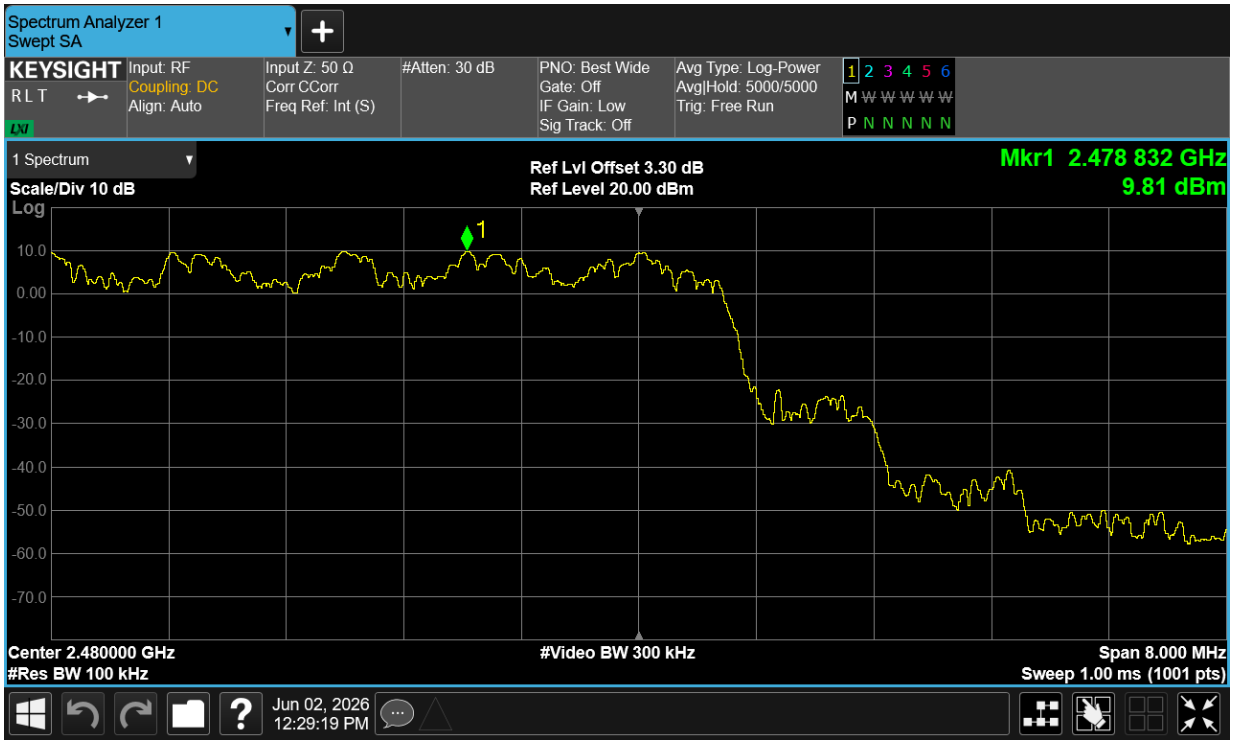
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



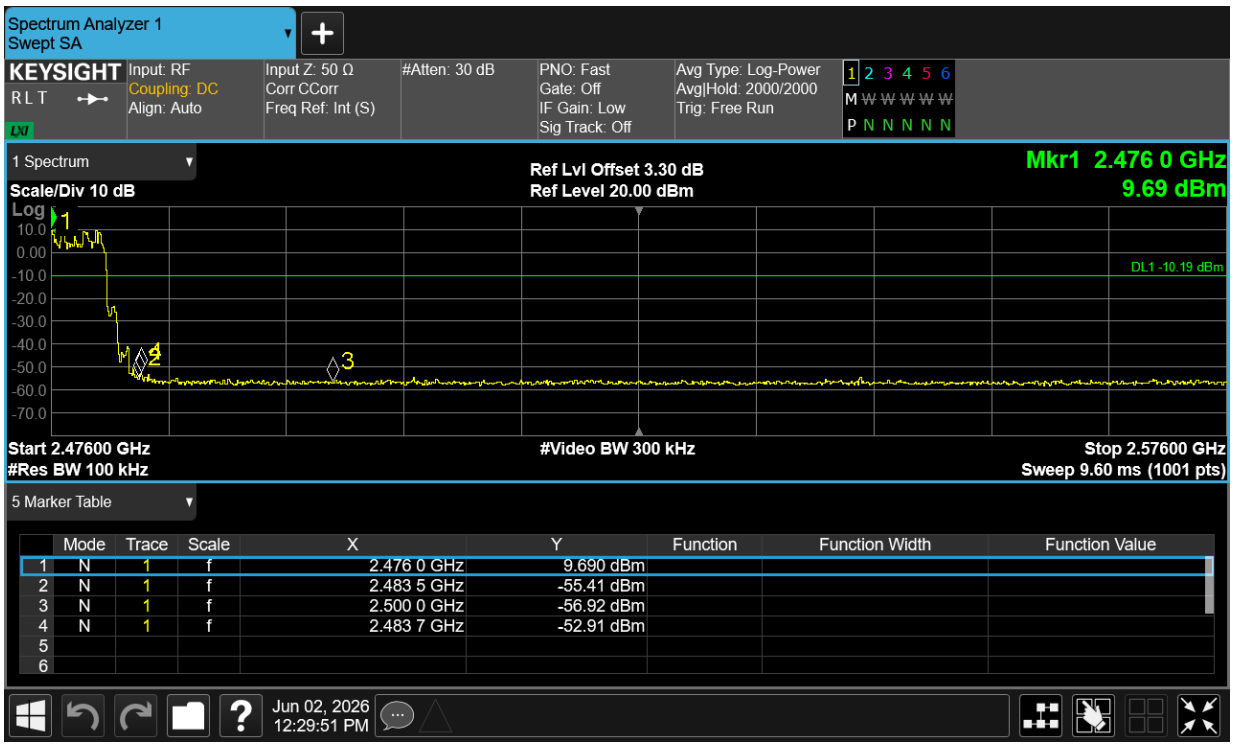
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

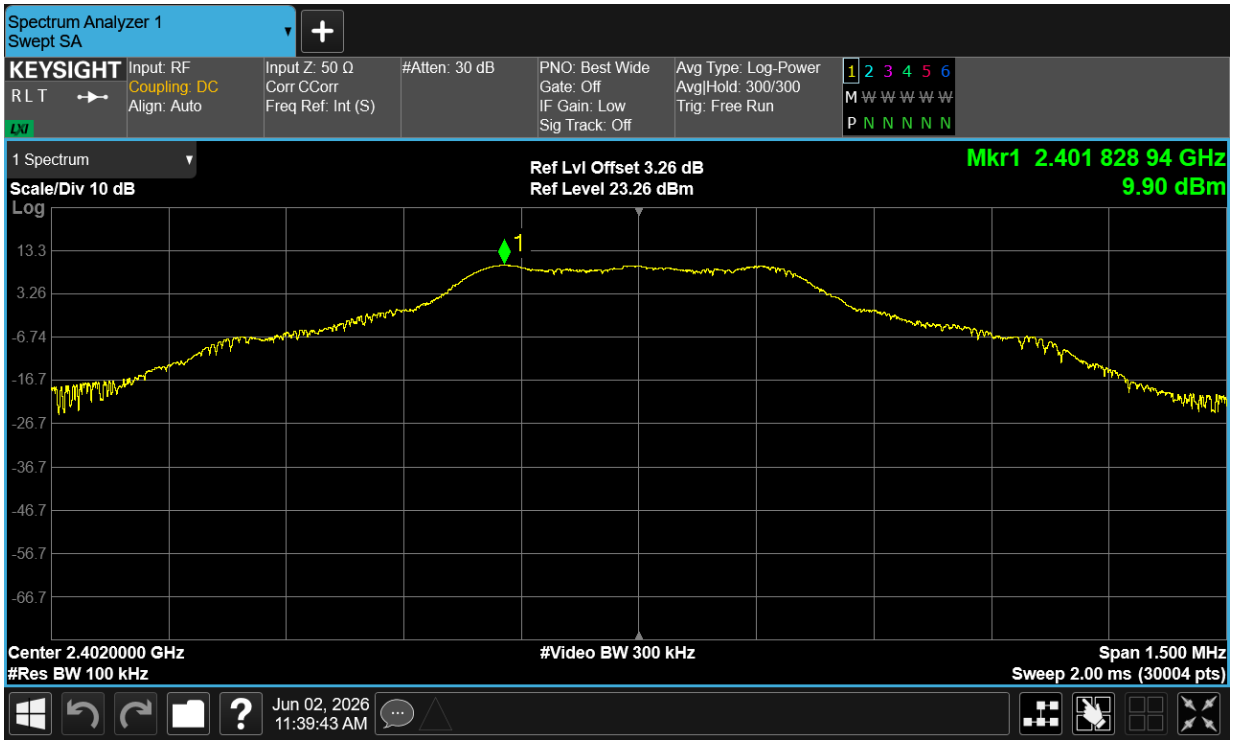


Conducted RF Spurious Emission

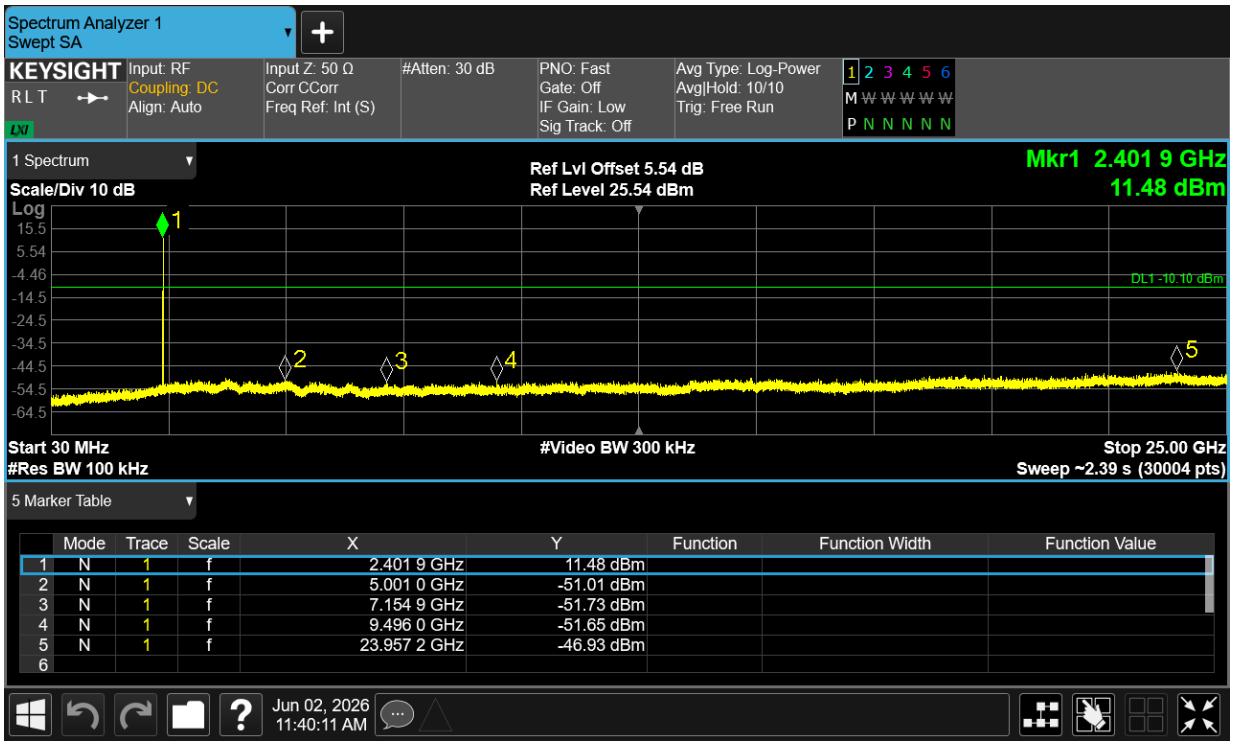
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-56.83	-20	Pass
NVNT	1-DH1	2441	Ant1	-58.25	-20	Pass
NVNT	1-DH1	2480	Ant1	-58.76	-20	Pass
NVNT	2-DH1	2402	Ant1	-52.43	-20	Pass
NVNT	2-DH1	2441	Ant1	-53.3	-20	Pass
NVNT	2-DH1	2480	Ant1	-51.91	-20	Pass
NVNT	3-DH1	2402	Ant1	-32.12	-20	Pass
NVNT	3-DH1	2441	Ant1	-52.56	-20	Pass
NVNT	3-DH1	2480	Ant1	-48.81	-20	Pass

Test Graphs

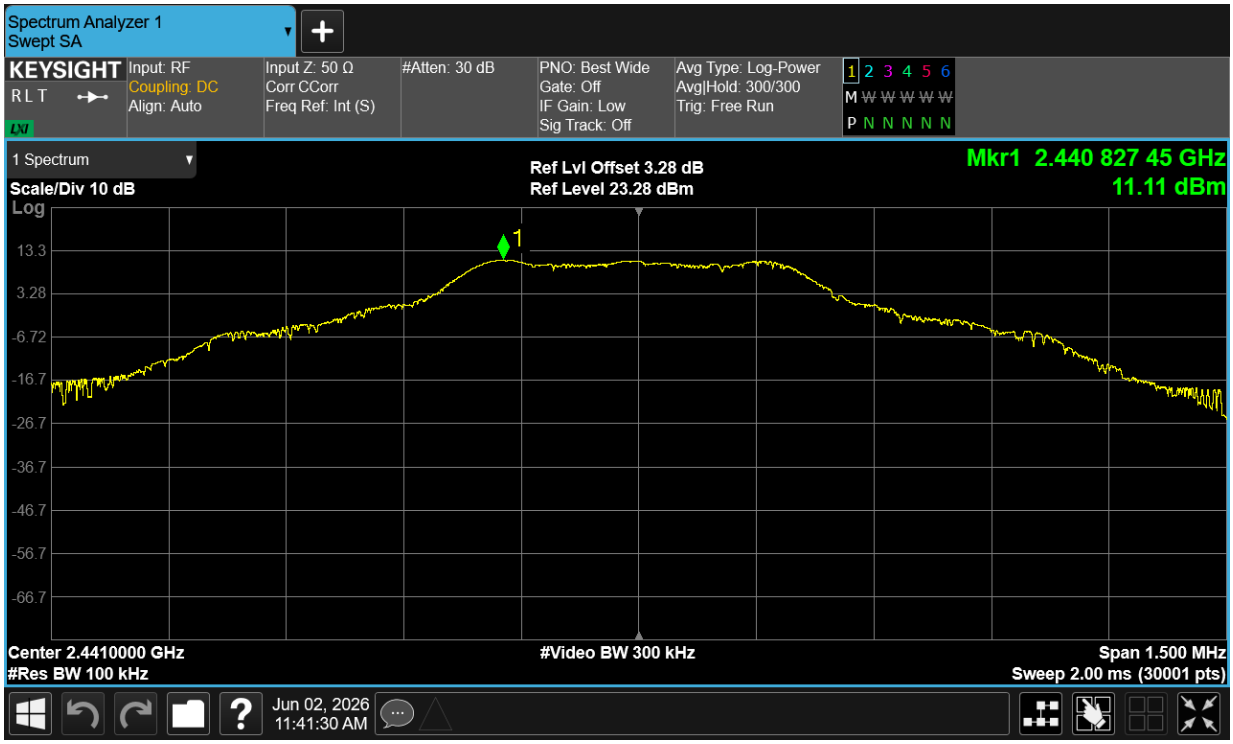
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



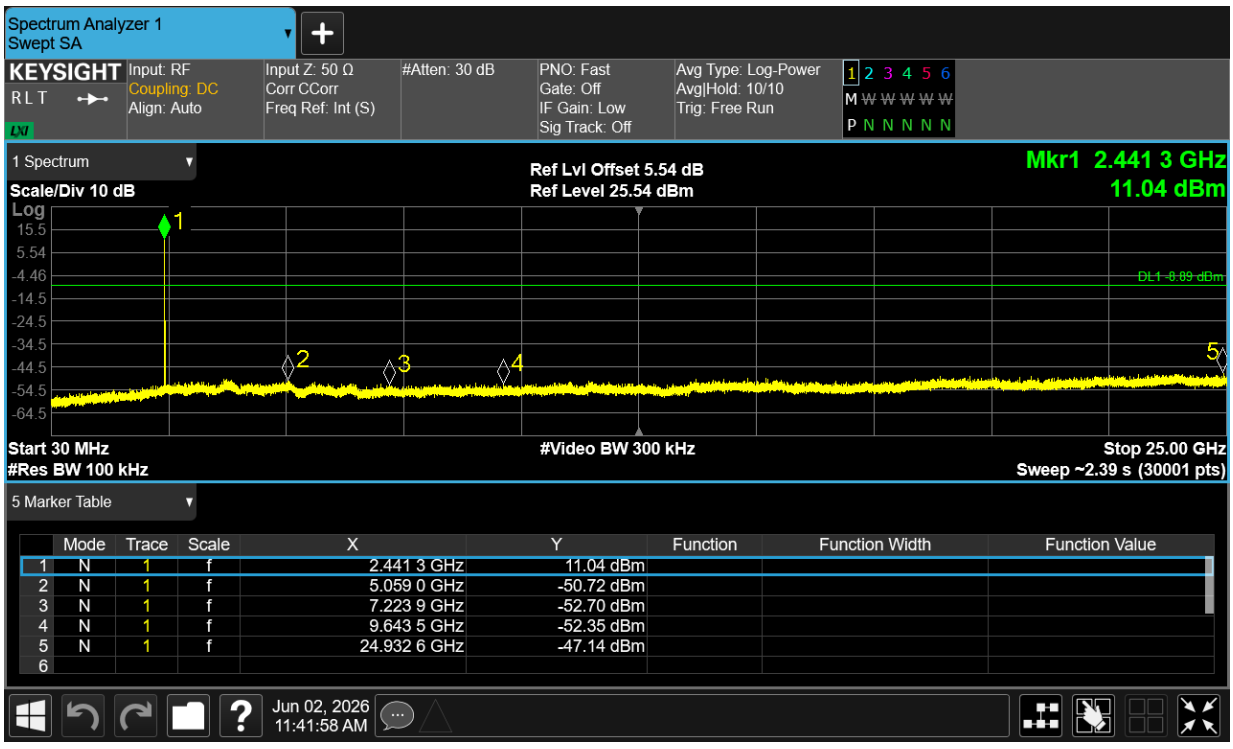
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



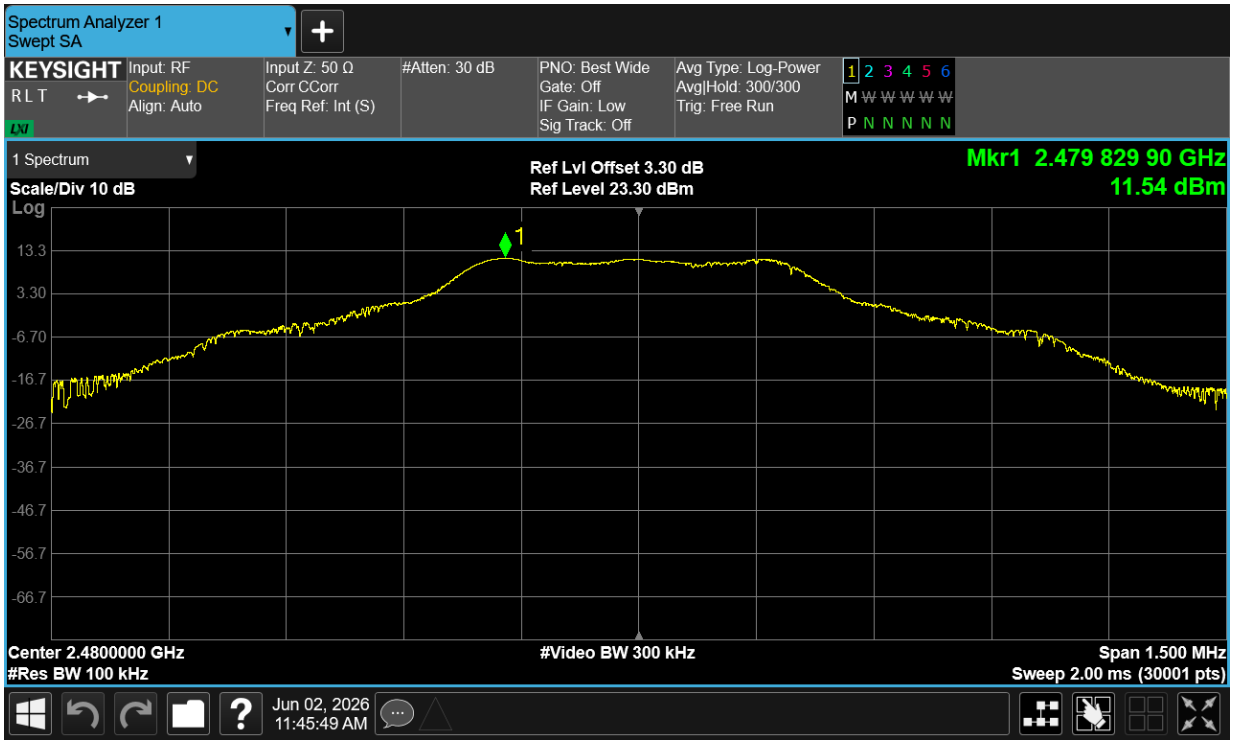
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



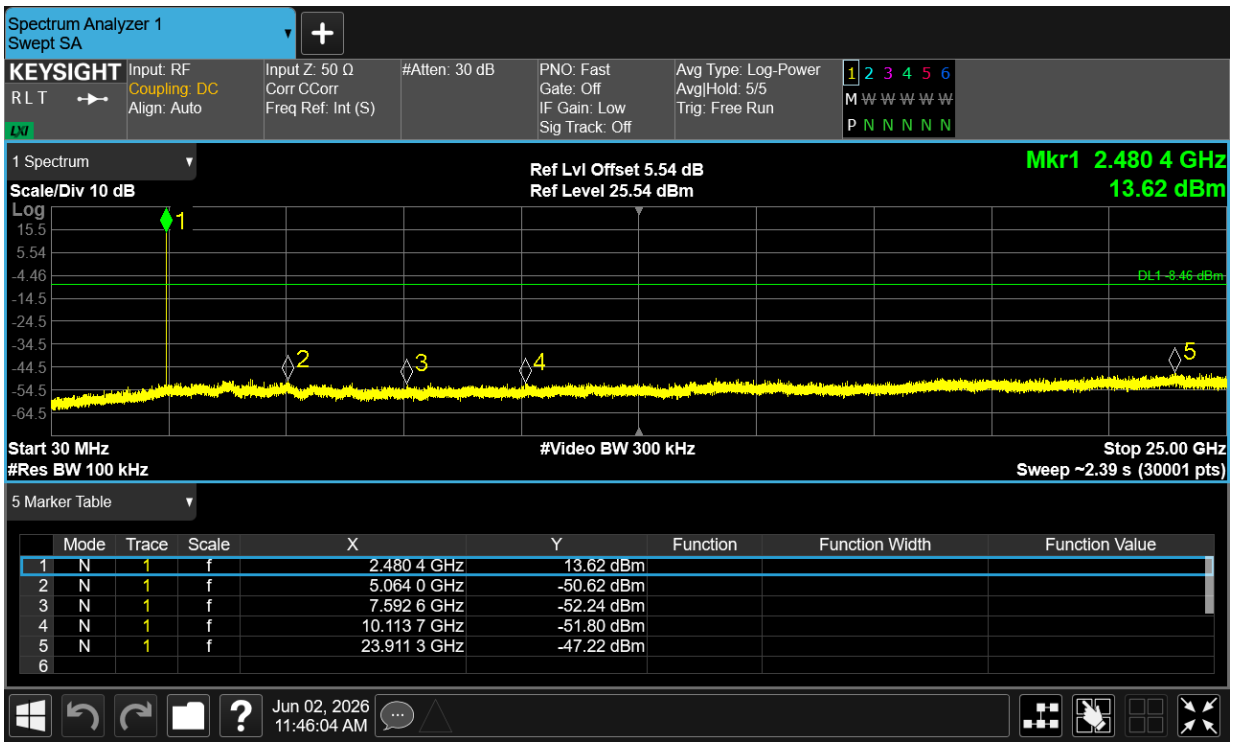
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



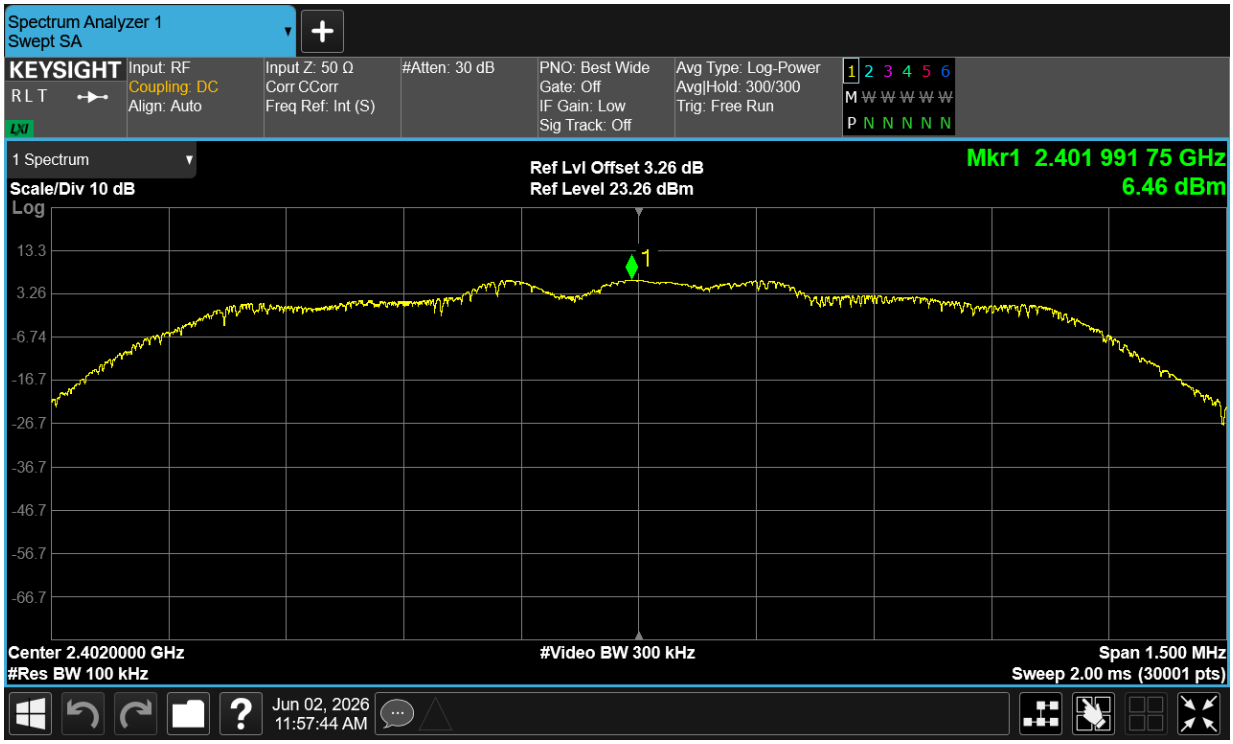
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



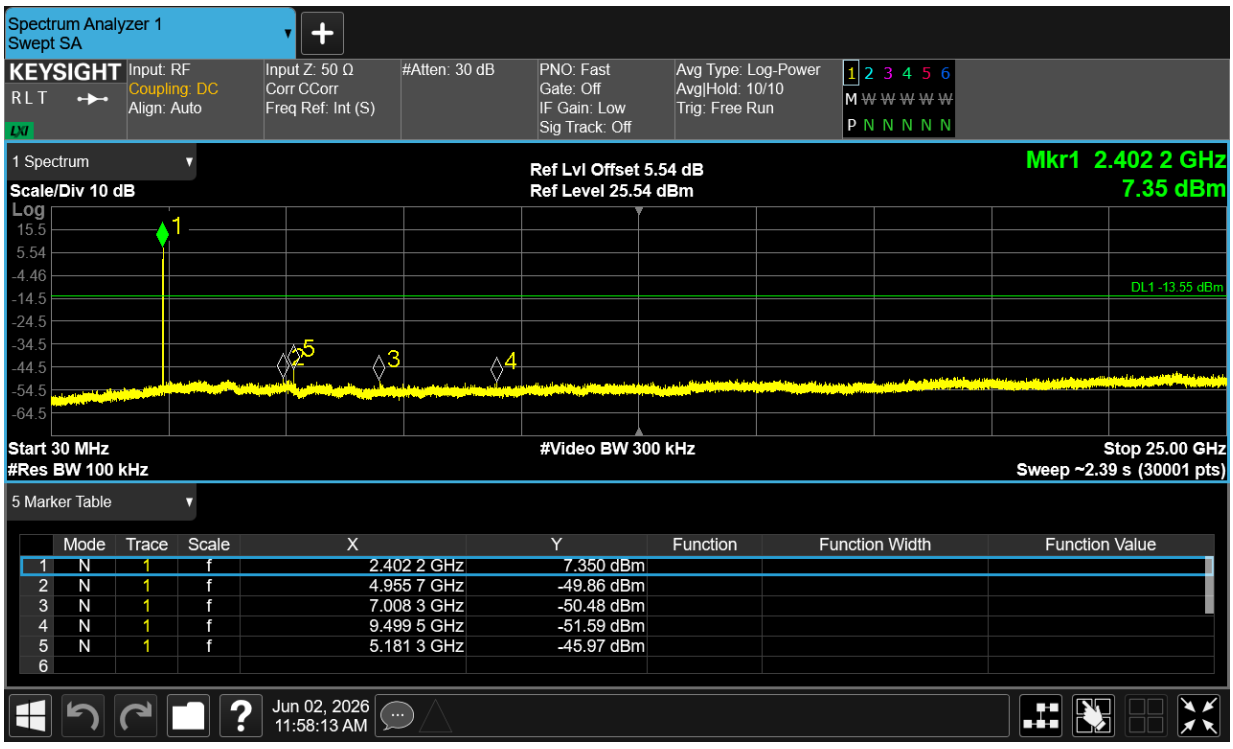
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



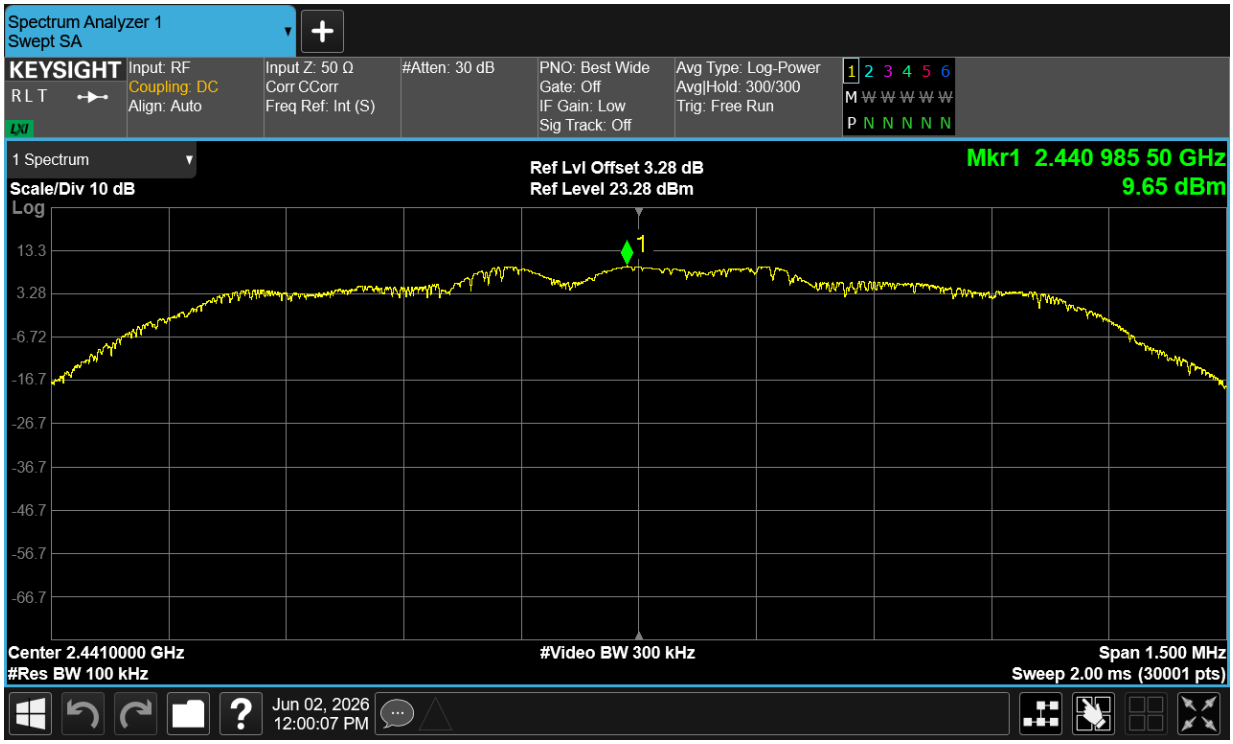
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



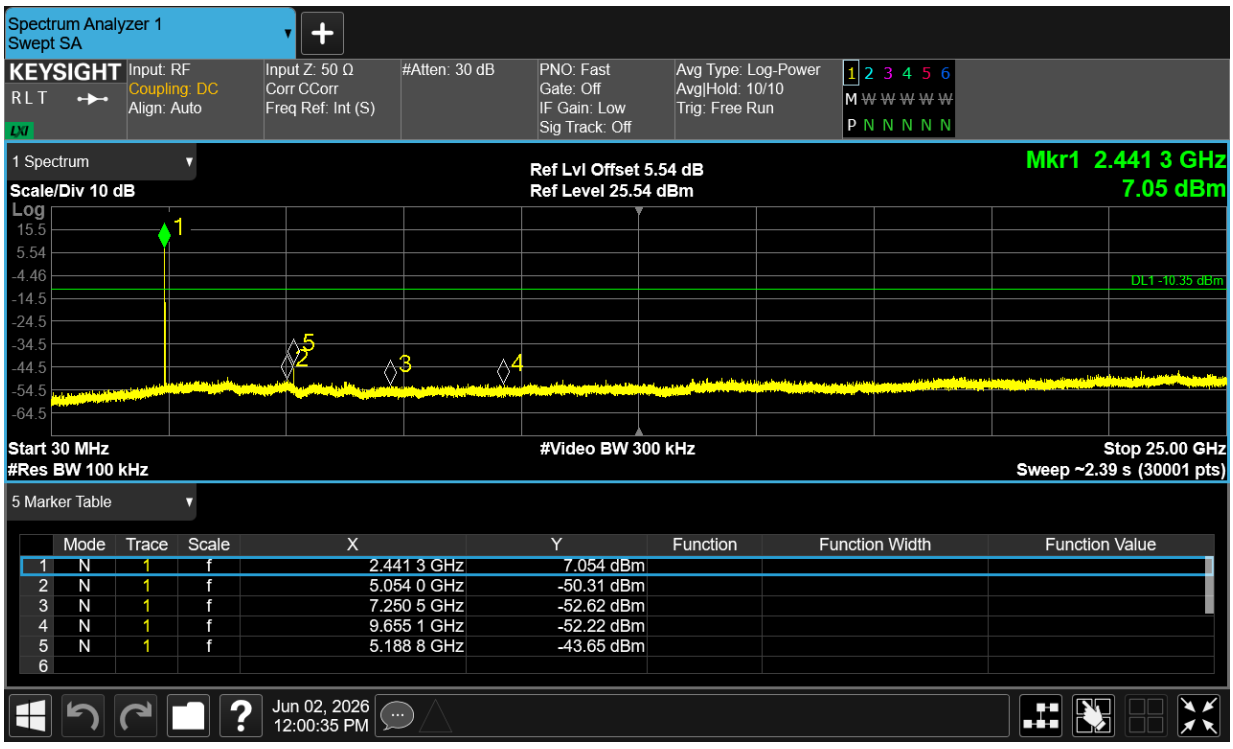
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



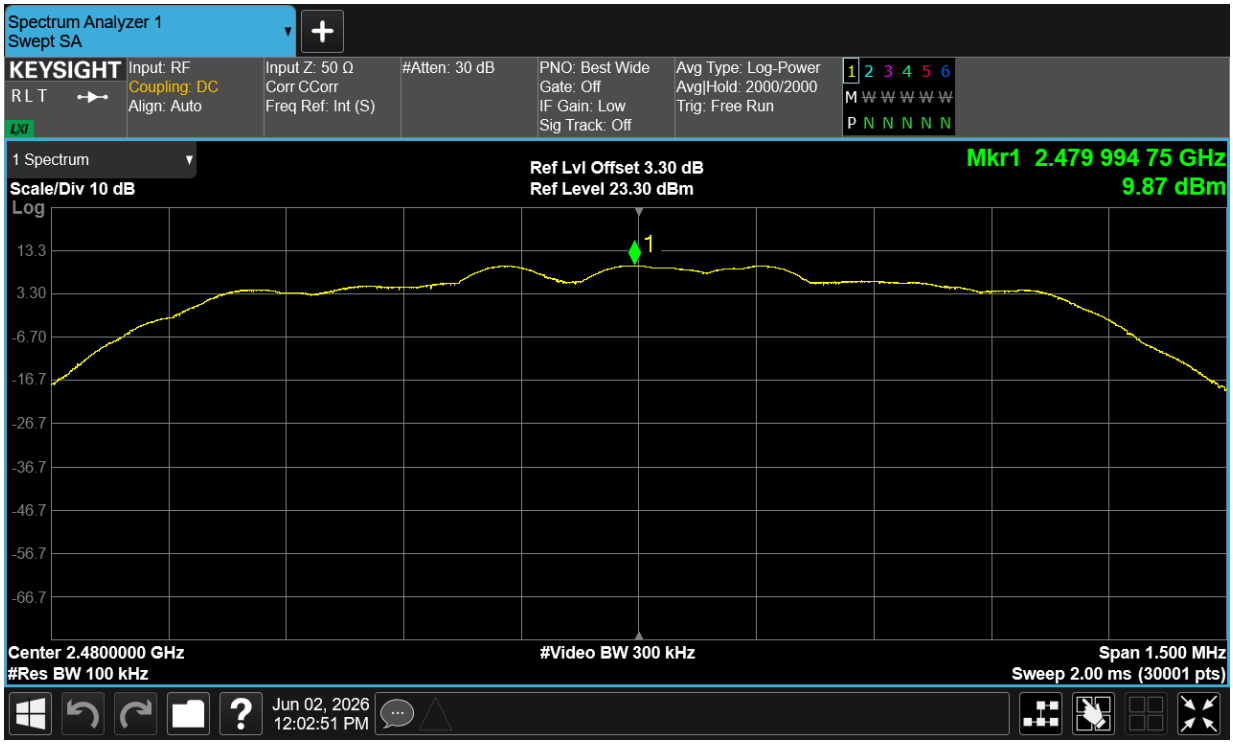
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



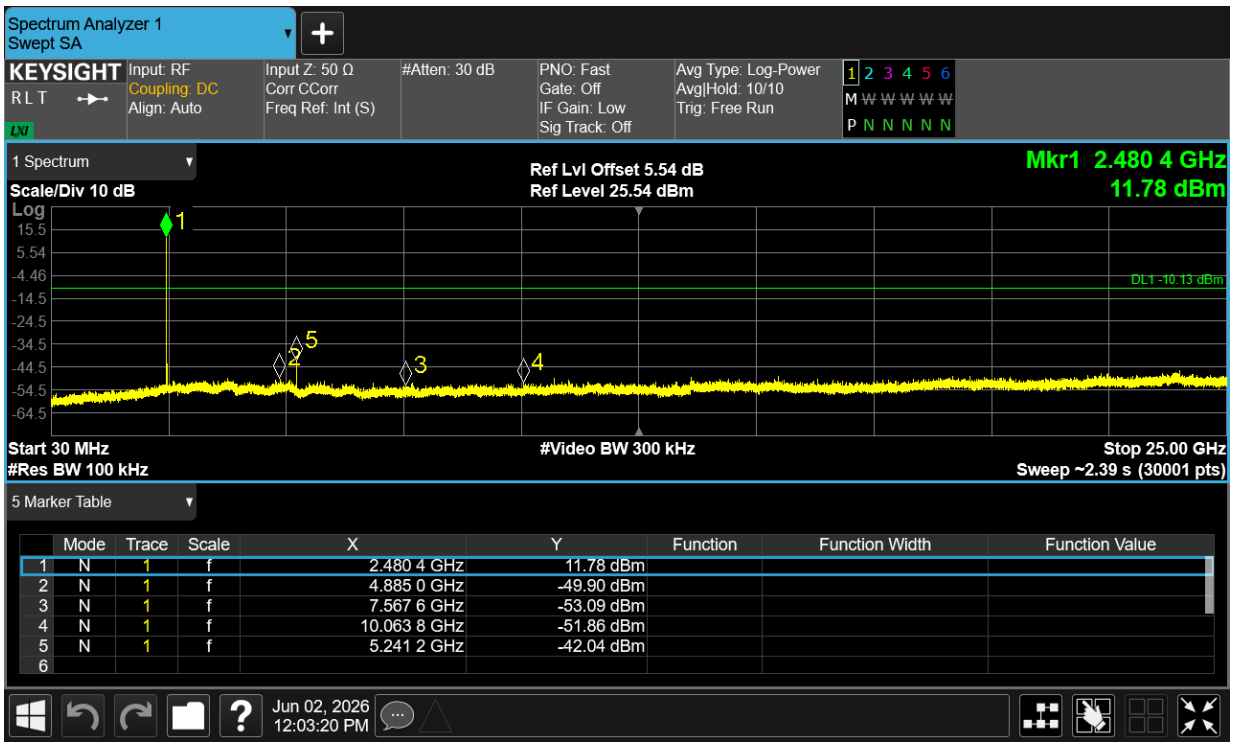
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



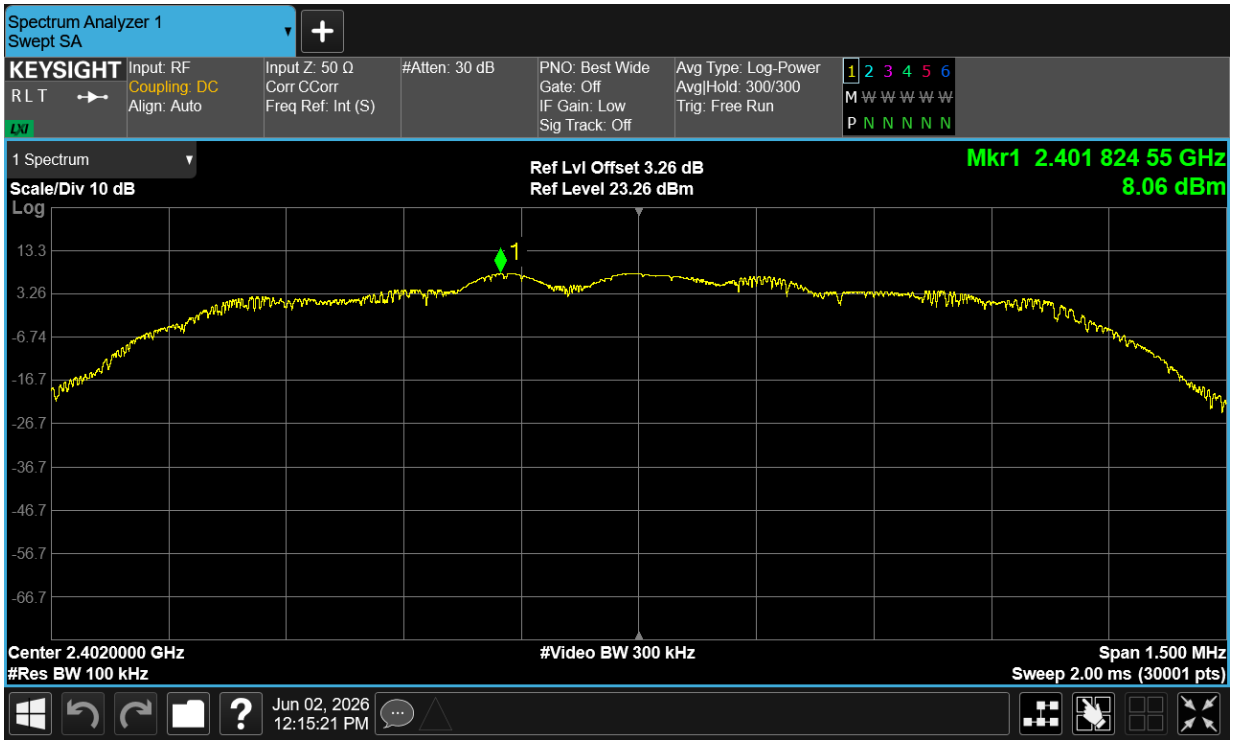
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



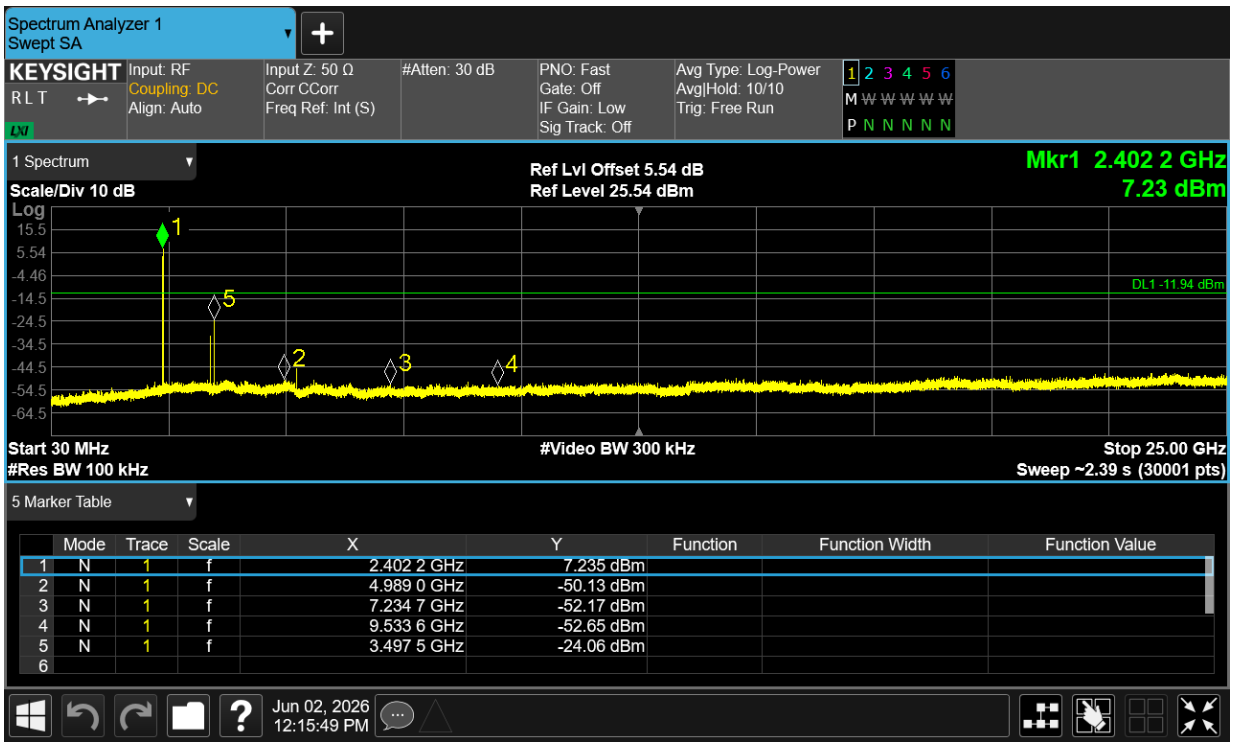
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



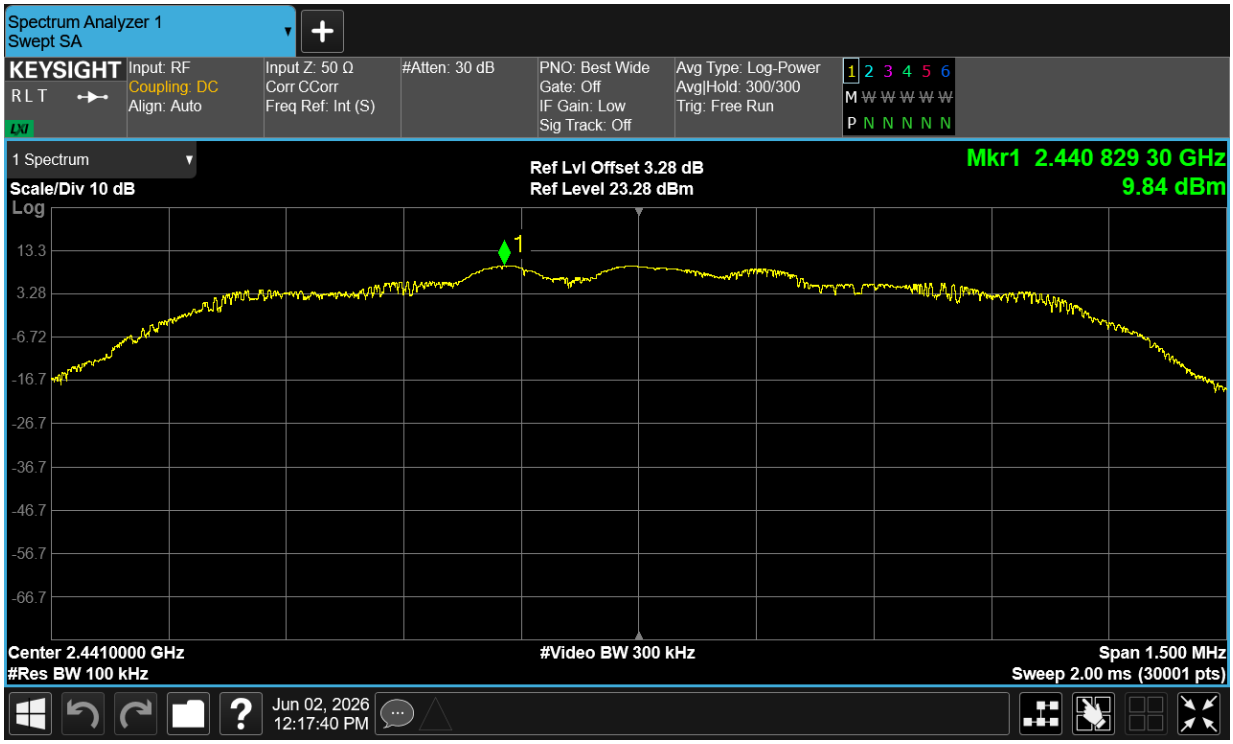
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



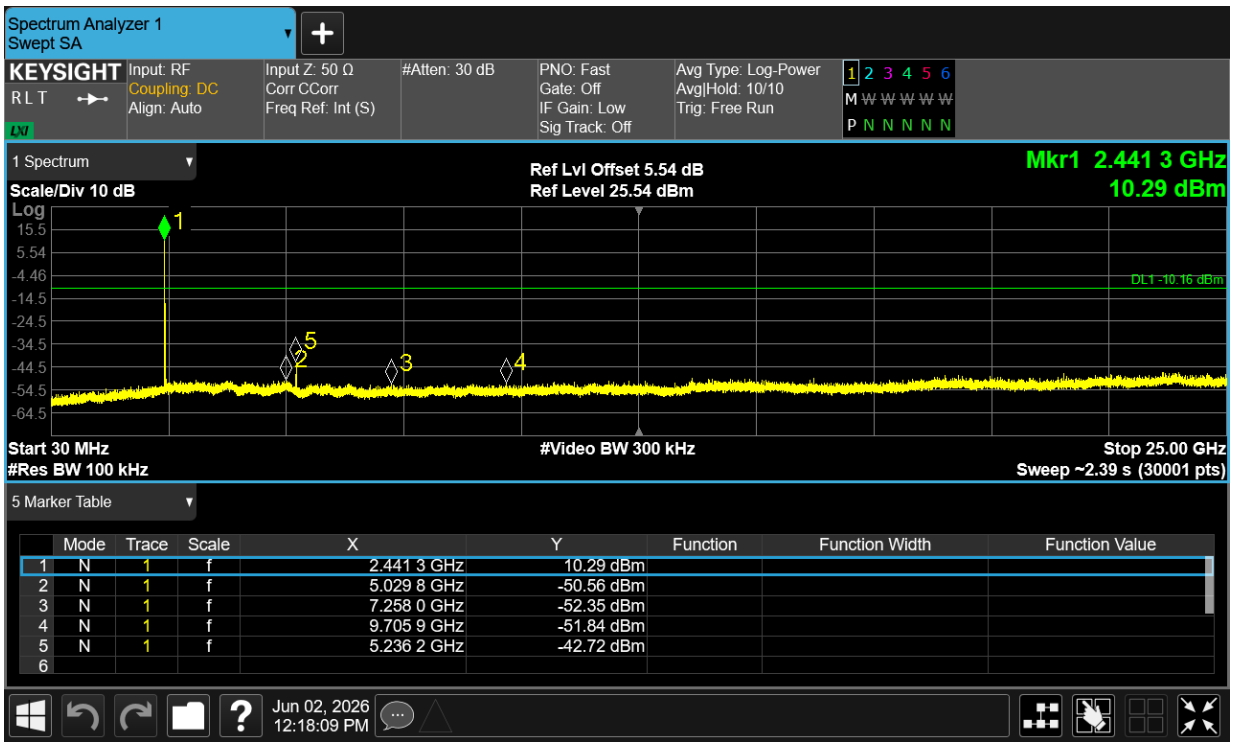
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



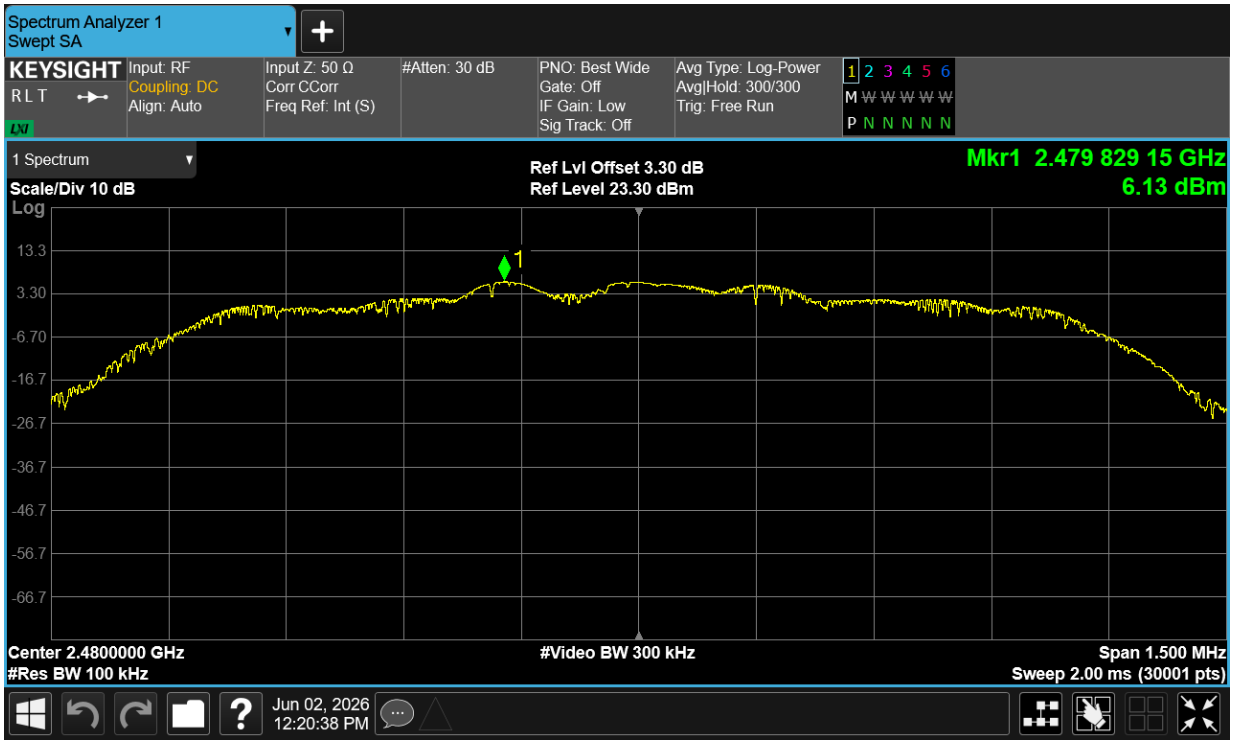
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



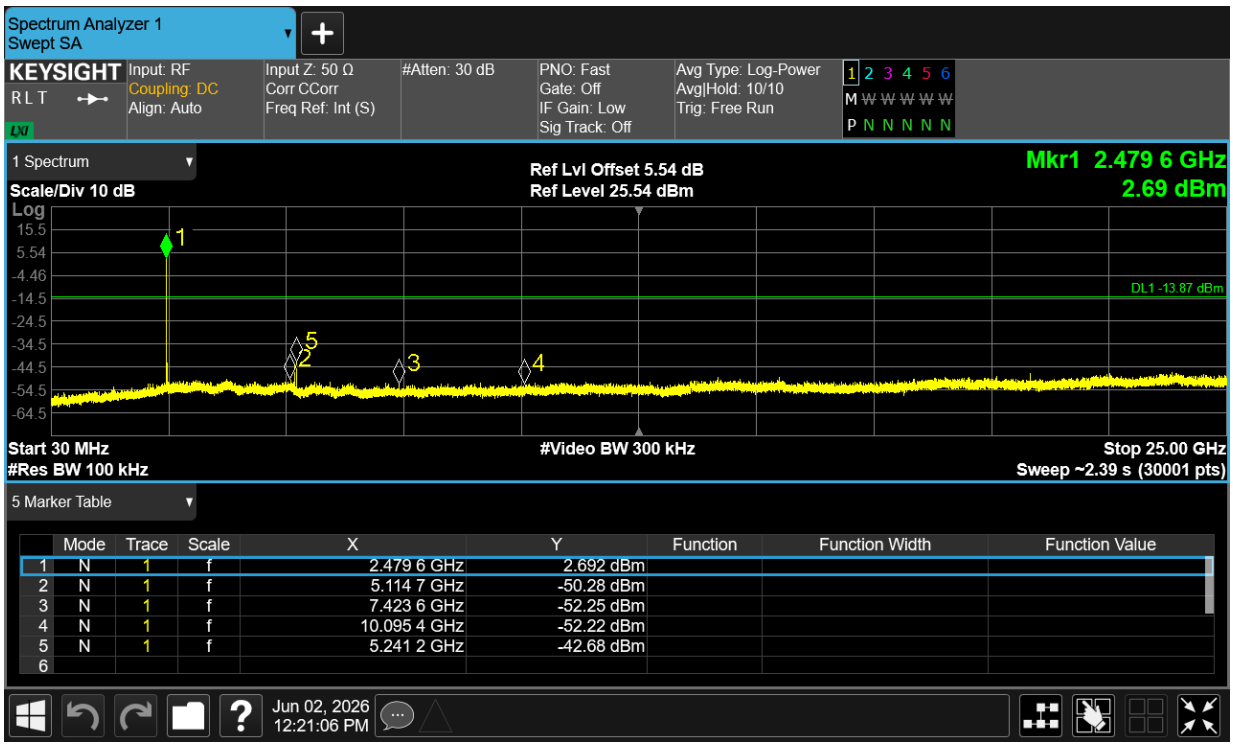
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

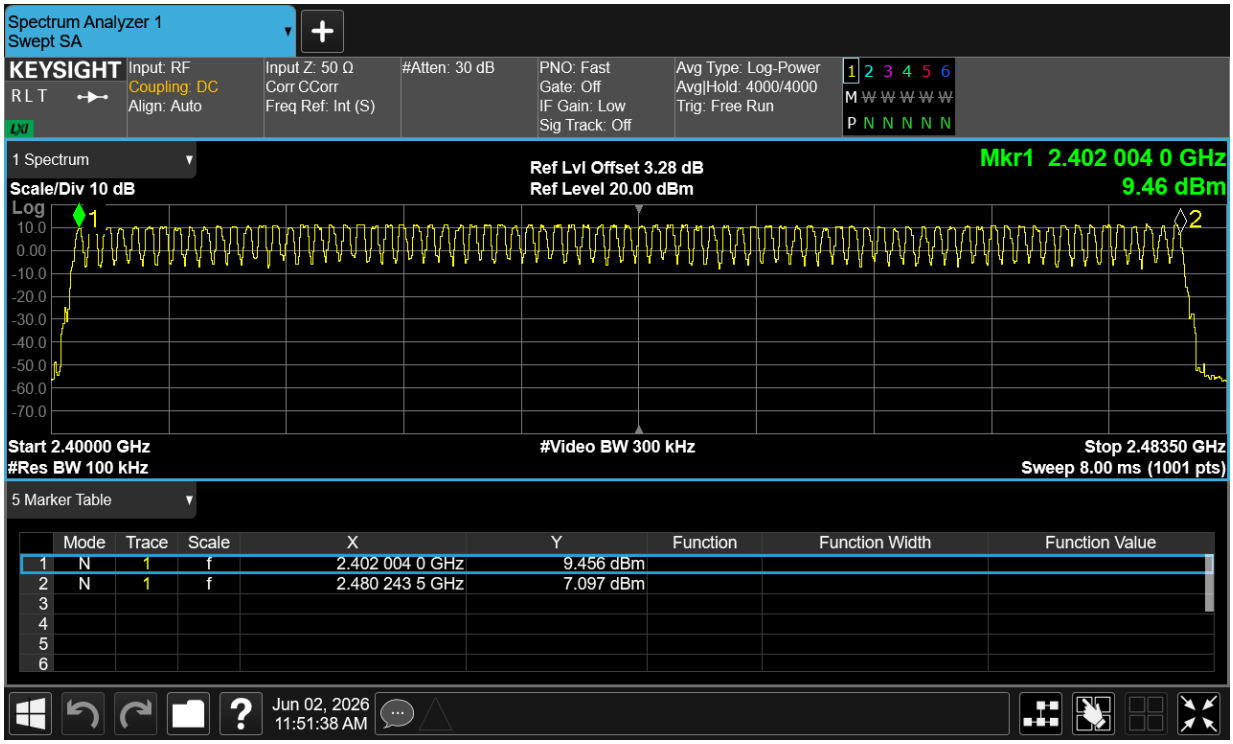


Number of Hopping Channel

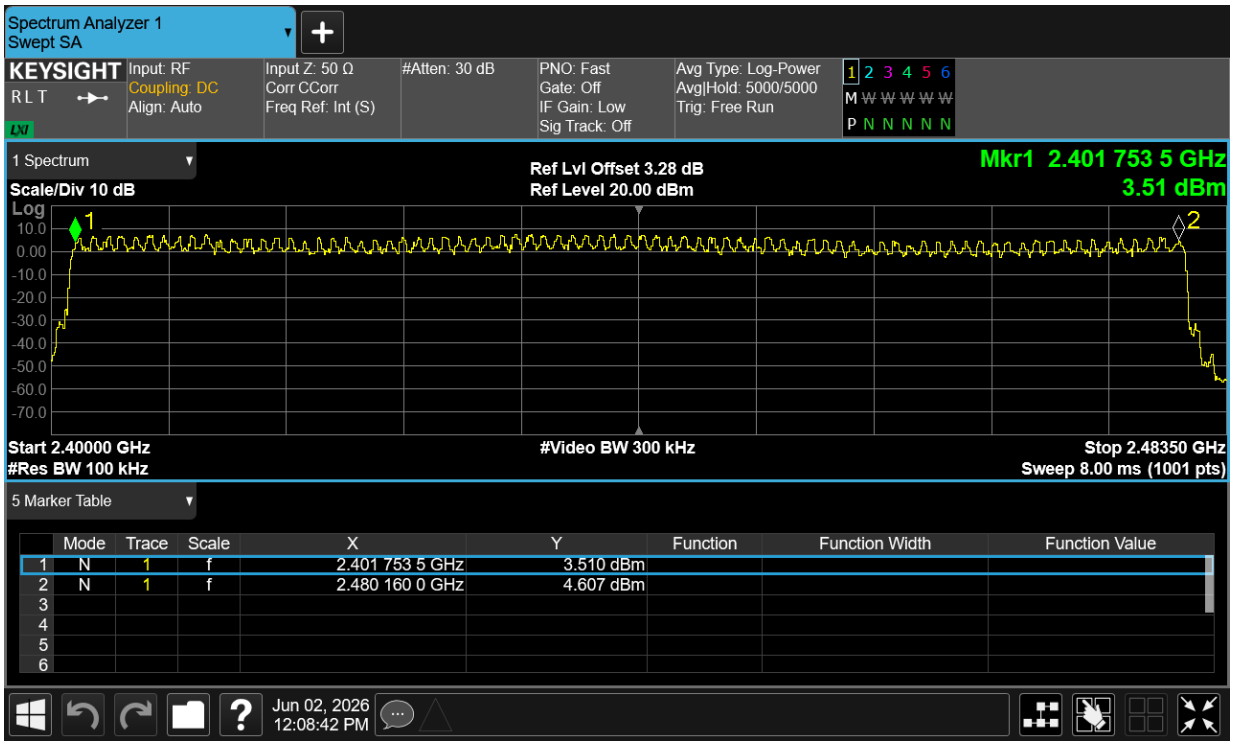
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	75	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

Test Graphs

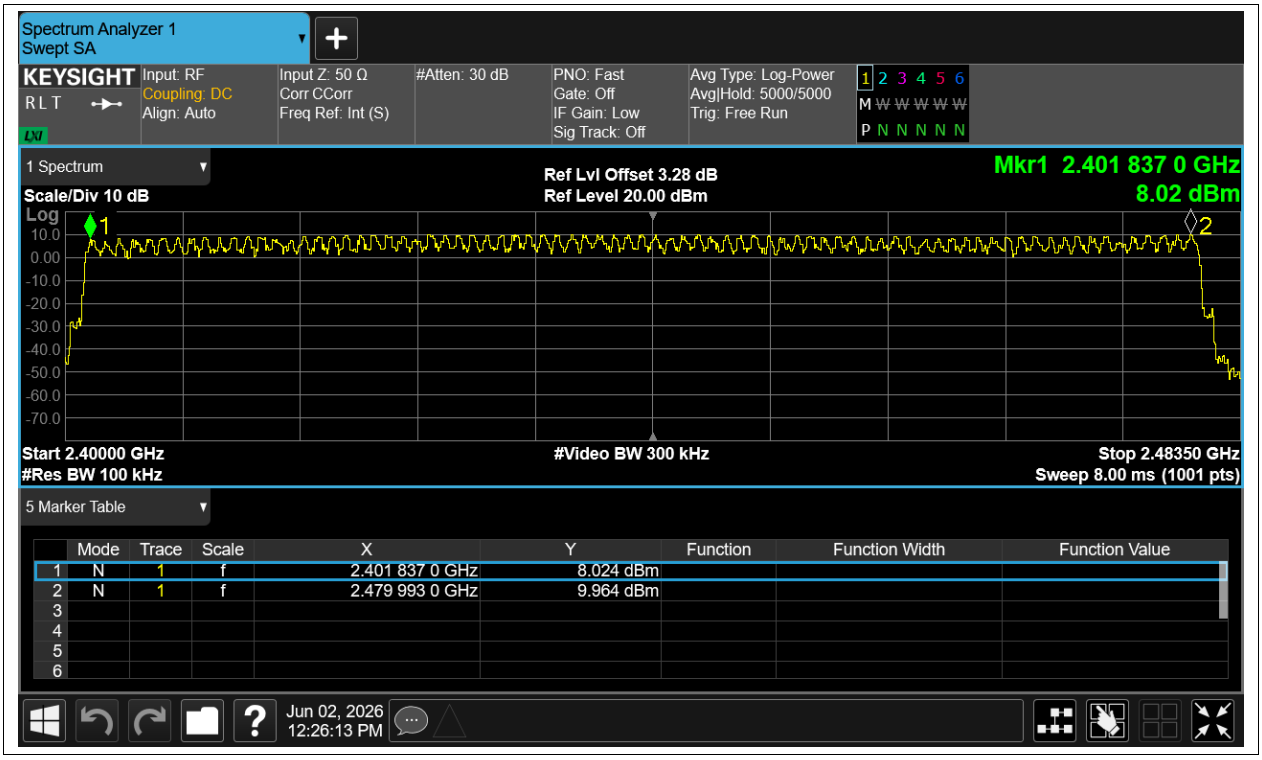
Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



Hopping No. NVNT 3-DH1 2441MHz Ant1


Spectrum Analyzer 1
Swept SA
KEYSIGHT
RLT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 5000/5000
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 3.28 dB
Ref Level 20.00 dBm
Mkr1 2.401 837 0 GHz
8.02 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Start 2.40000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 2.48350 GHz
Sweep 8.00 ms (1001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.401 837 0 GHz 8.024 dBm
2 N 1 f 2.479 993 0 GHz 9.964 dBm
3
4
5
6
Jun 02, 2026
12:26:13 PM

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	0.406	129.92	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.662	265.92	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.91	310.4	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.399	127.68	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.649	263.84	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.898	309.12	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.396	126.72	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.646	263.36	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.896	308.907	31600	400	Pass

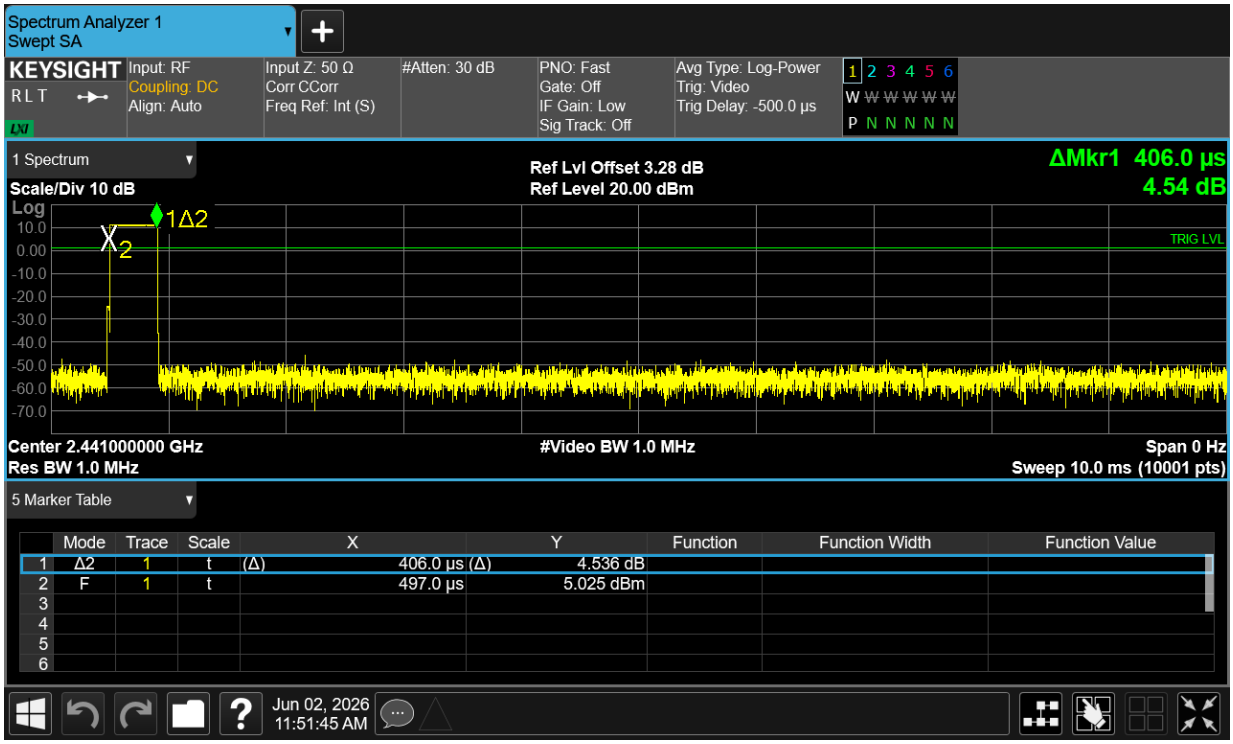
Note:

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.

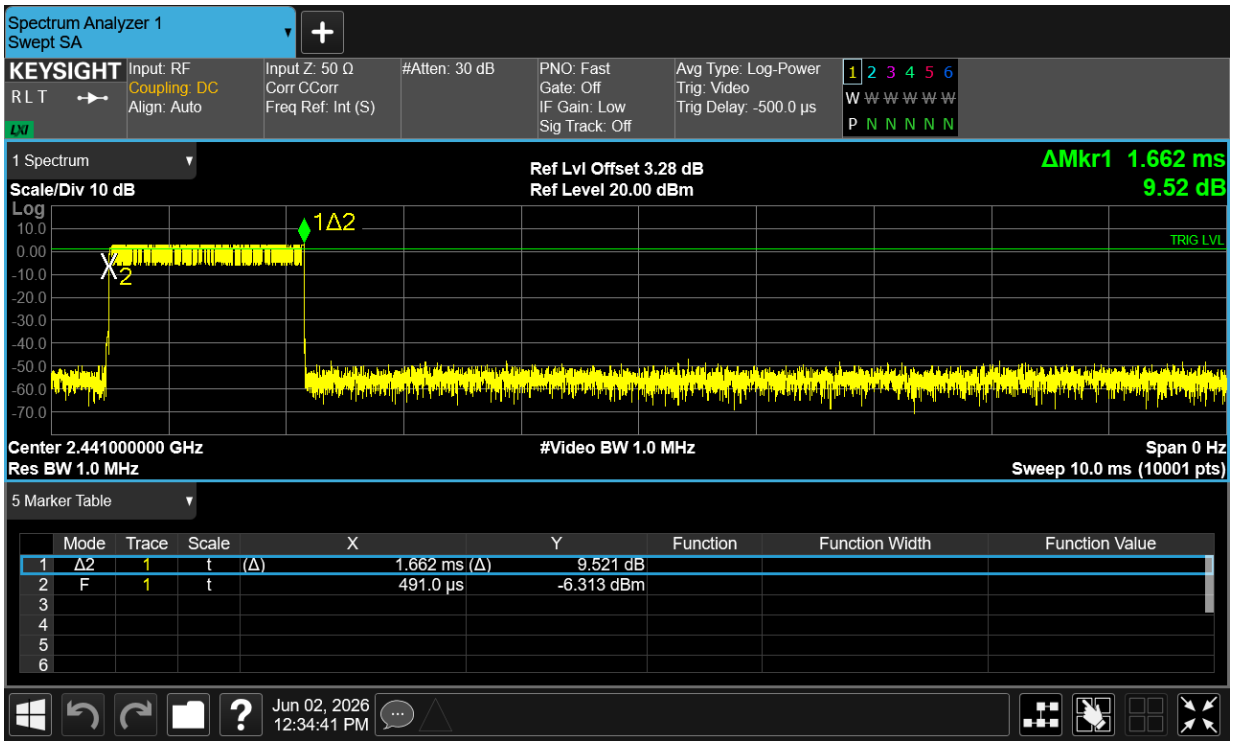
2. In DH3 mode, hopping rate is 1600 hops/s with 4 slots in 79 hopping channels.With channel hopping rate (1600/4/79) in Occupancy Time Limit (0.4 x 79) (s),Hops Over Occupancy Time comes to (1600/4/79)x(0.4 x 79)= 160 hops. Total Dwell time= Pulse Time × 160.

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.

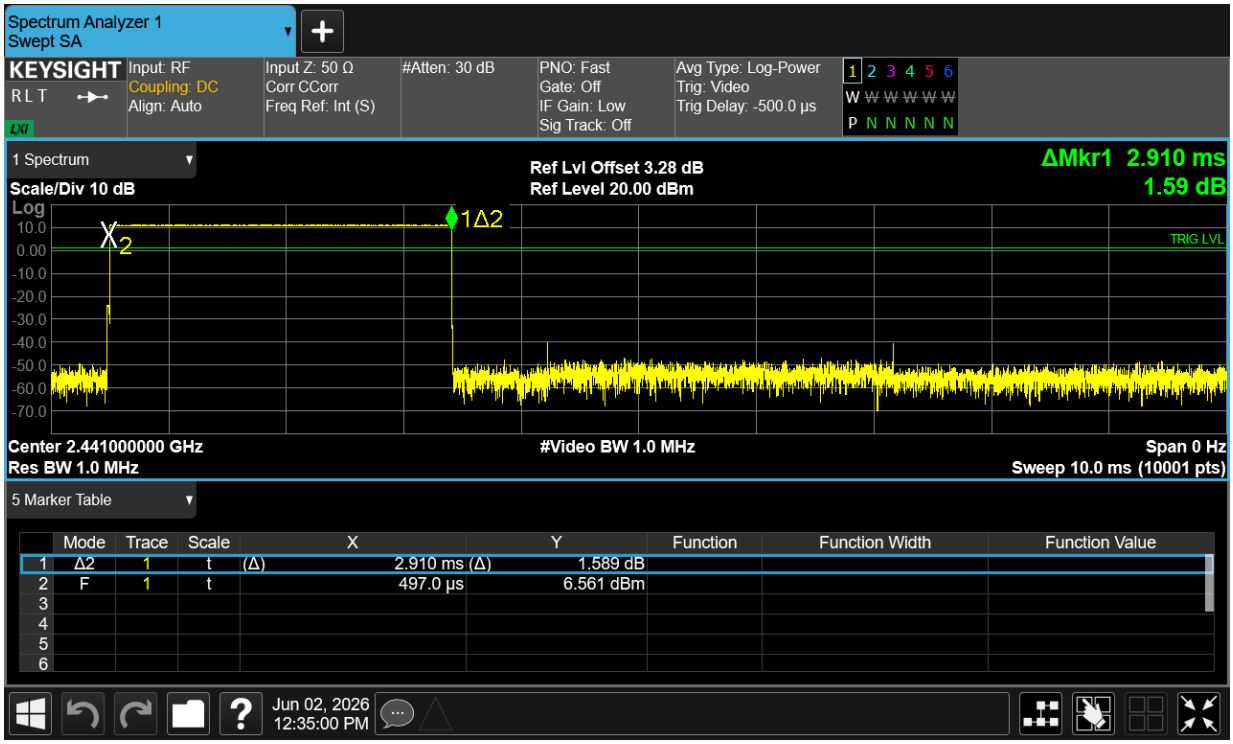
Test Graphs
Dwell NVNT 1-DH1 2441MHz Ant1



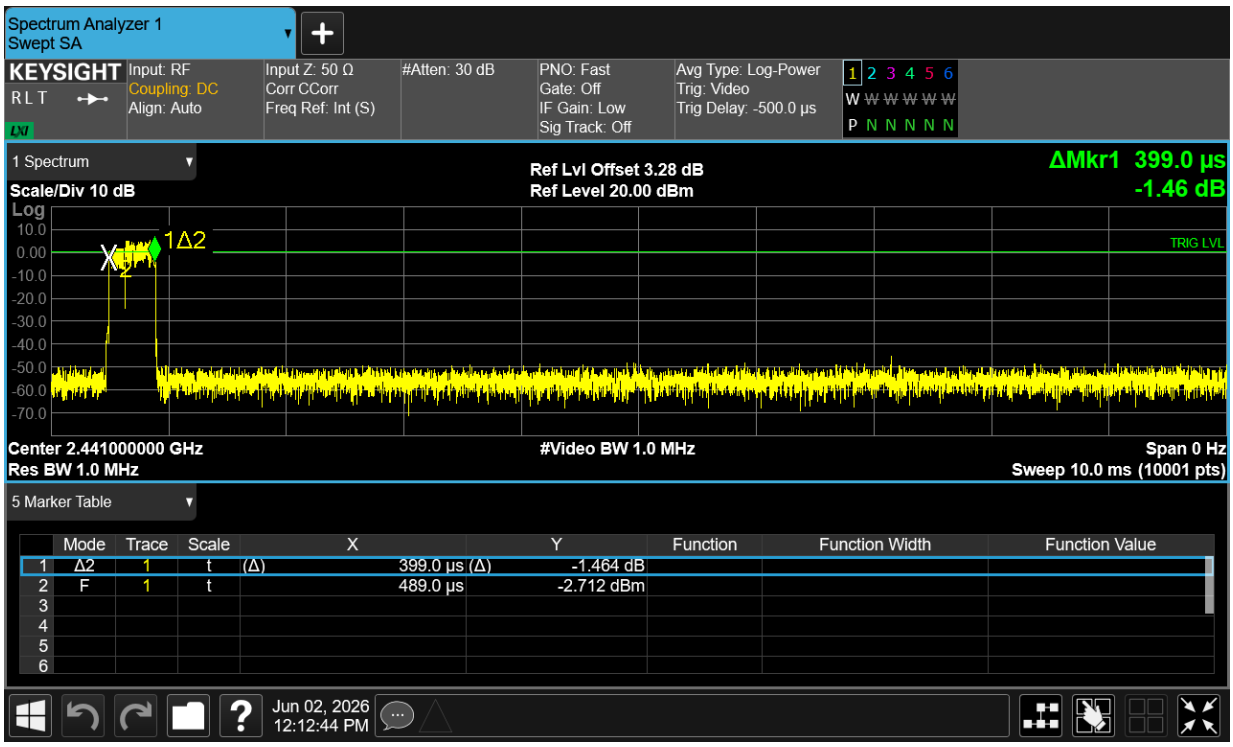
Dwell NVNT 1-DH3 2441MHz Ant1



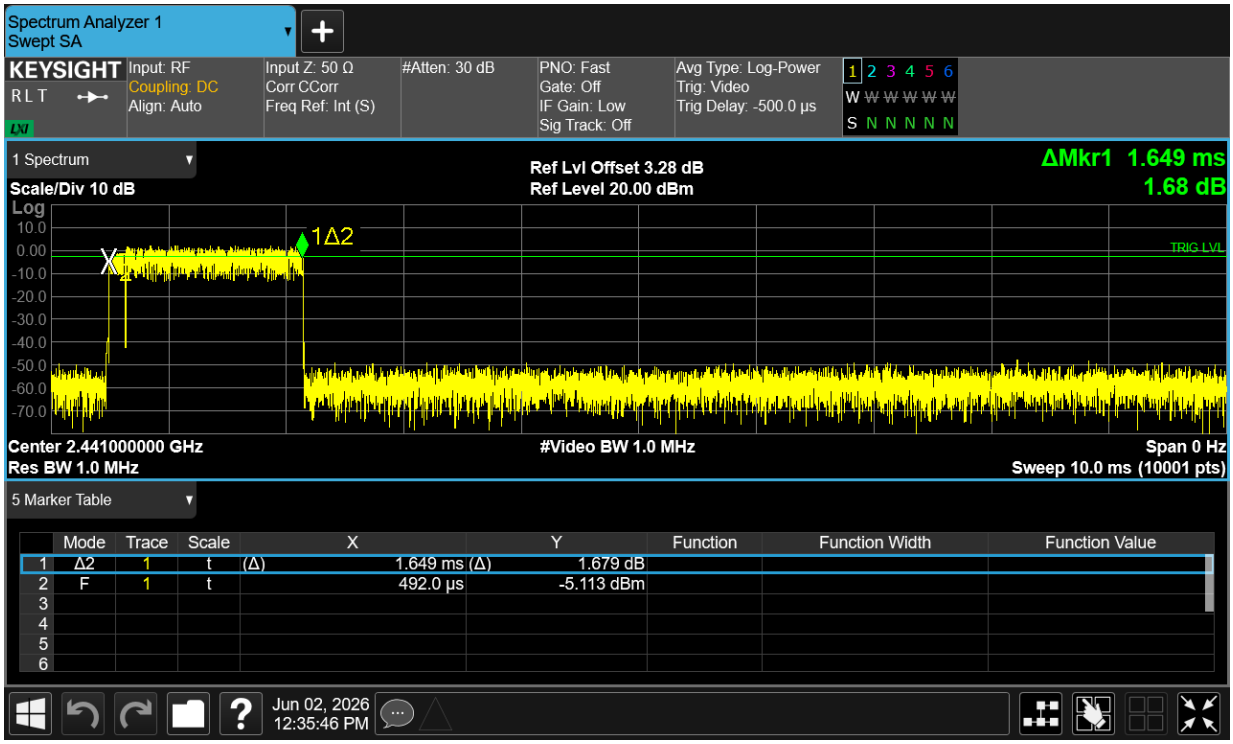
Dwell NVNT 1-DH5 2441MHz Ant1



Dwell NVNT 2-DH1 2441MHz Ant1

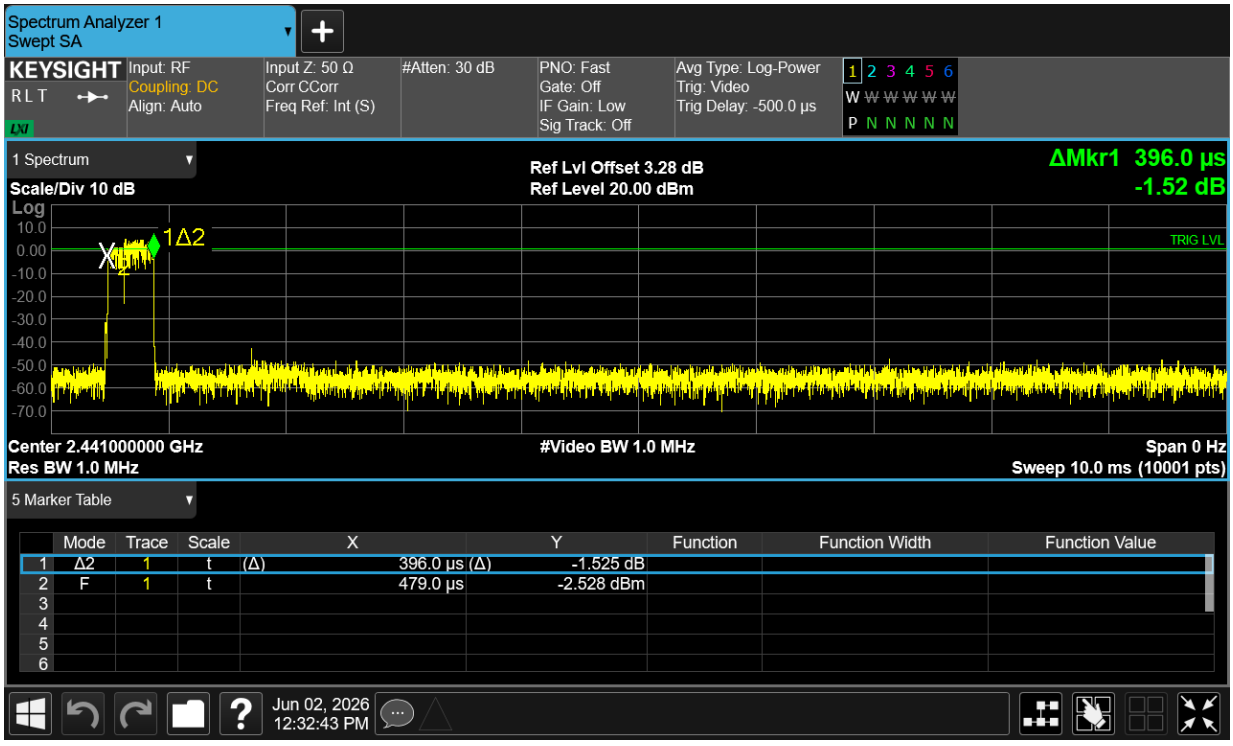


Dwell NVNT 2-DH3 2441MHz Ant1

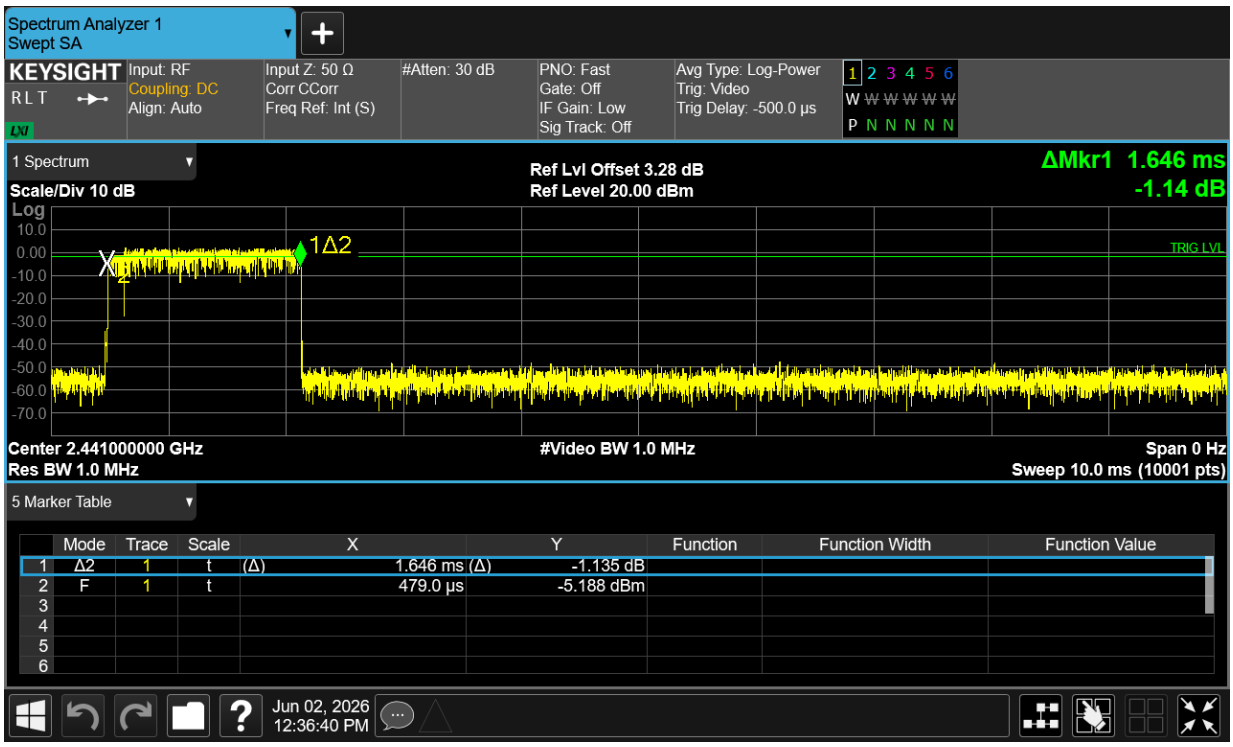


Dwell NVNT 2-DH5 2441MHz Ant1

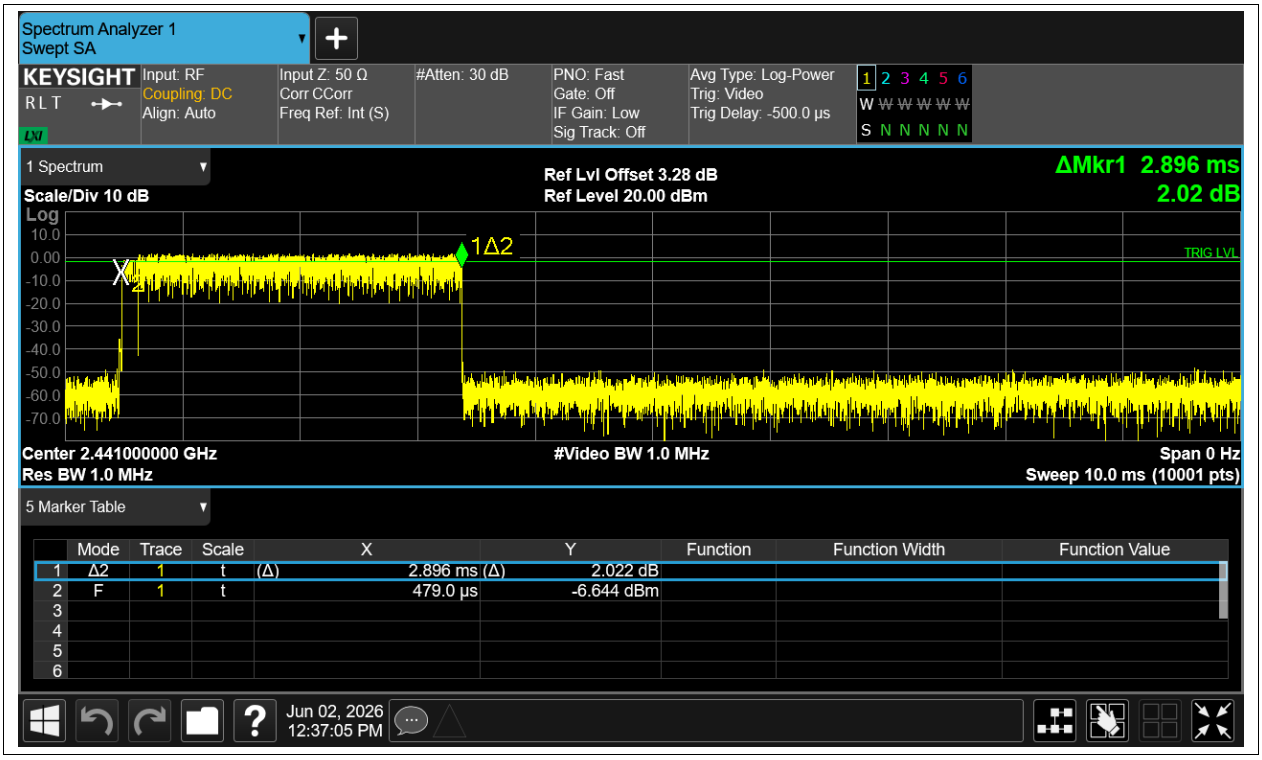
Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1



Dwell NVNT 3-DH5 2441MHz Ant1


Spectrum Analyzer 1
Swept SA
KEYSIGHT
RLT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Trig: Video
Trig Delay: -500.0 µs
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 3.28 dB
Ref Level 20.00 dBm
ΔMkr1 2.896 ms
2.02 dB
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1Δ2
TRIG LVL
Center 2.441000000 GHz
Res BW 1.0 MHz
#Video BW 1.0 MHz
Span 0 Hz
Sweep 10.0 ms (10001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 Δ2 1 t (Δ) 2.896 ms (Δ) 2.022 dB
2 F 1 t 479.0 µs -6.644 dBm
3
4
5
6
Jun 02, 2026
12:37:05 PM