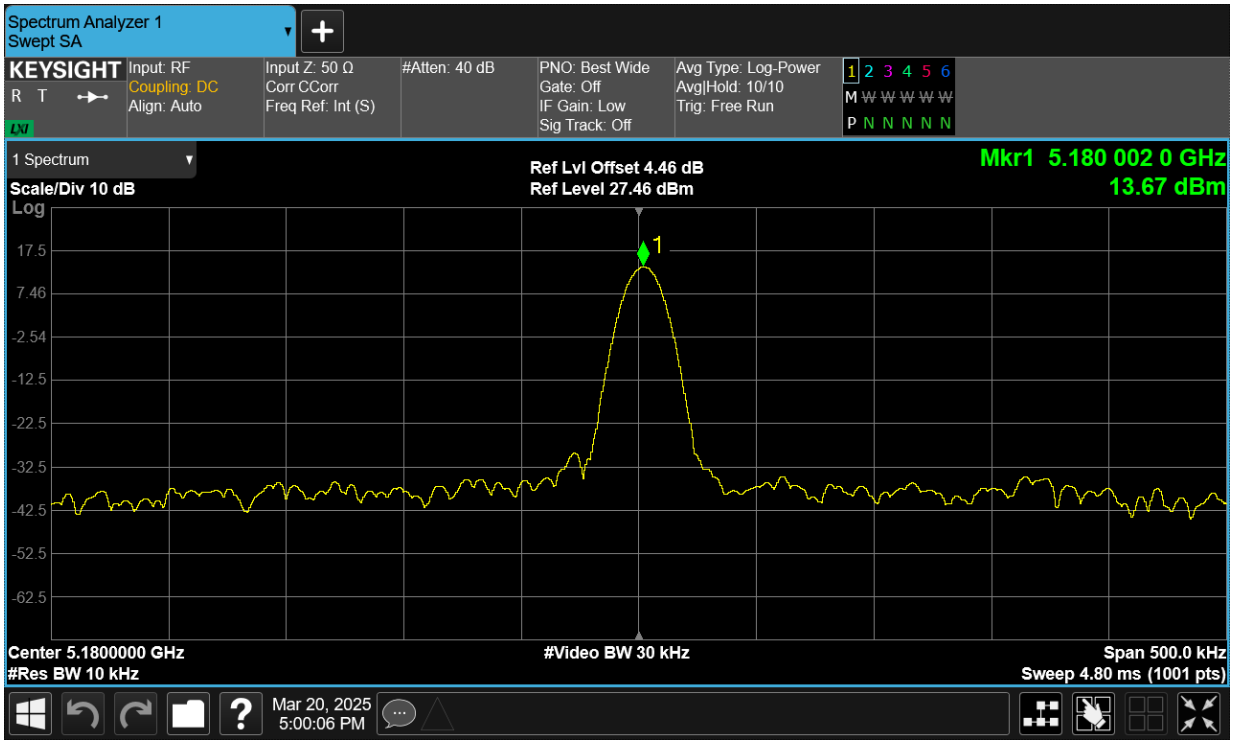
Test Data

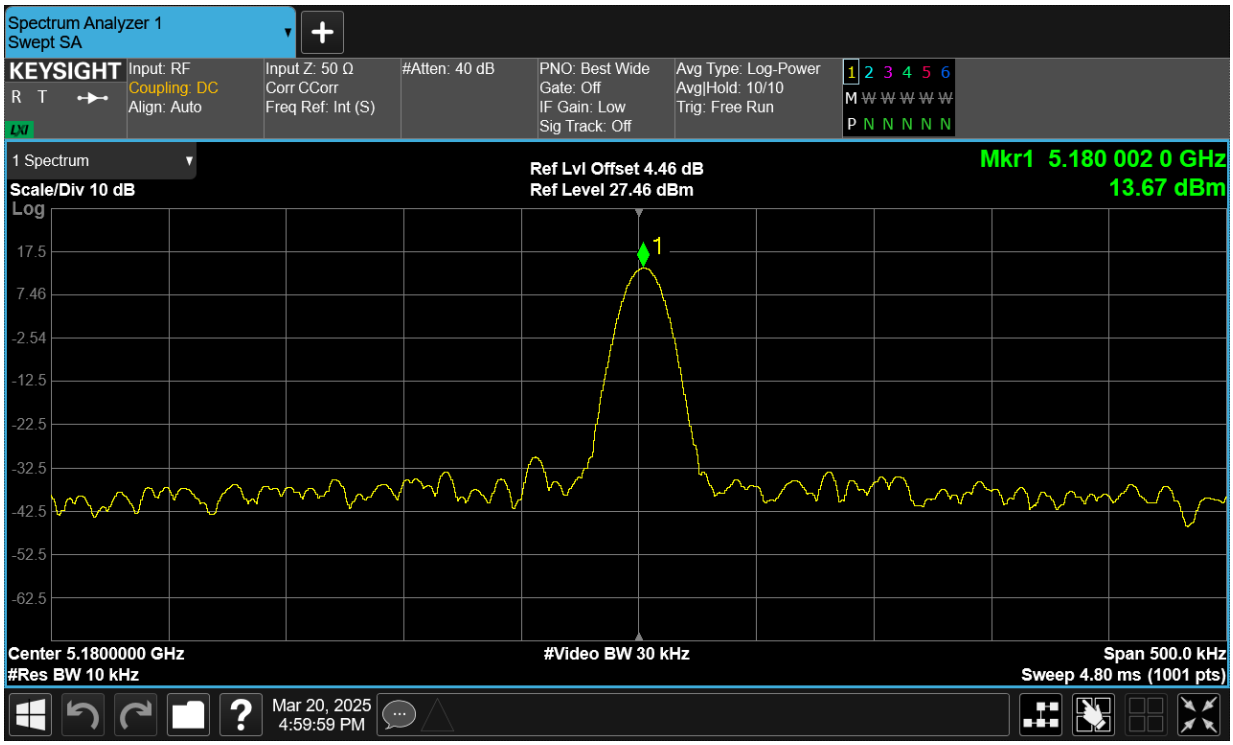
Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5180	Ant1	5180.002	0.39	25	Pass
LVNT	a	5180	Ant1	5180.002	0.39	25	Pass
NVHT	a	5180	Ant1	5180.002	0.39	25	Pass
NVLT	a	5180	Ant1	5180.002	0.39	25	Pass
NVNT	a	5180	Ant1	5180.002	0.39	25	Pass
HVNT	ac80	5210	Ant1	5210.002	0.38	25	Pass
LVNT	ac80	5210	Ant1	5210.002	0.38	25	Pass
NVHT	ac80	5210	Ant1	5210.002	0.38	25	Pass
NVLT	ac80	5210	Ant1	5210.002	0.38	25	Pass
NVNT	ac80	5210	Ant1	5210.001744766	0.33	25	Pass
HVNT	n40	5190	Ant1	5190.002	0.39	25	Pass
LVNT	n40	5190	Ant1	5190.002	0.39	25	Pass
NVHT	n40	5190	Ant1	5190.002	0.39	25	Pass
NVLT	n40	5190	Ant1	5190.002	0.39	25	Pass
NVNT	n40	5190	Ant1	5190.002	0.39	25	Pass

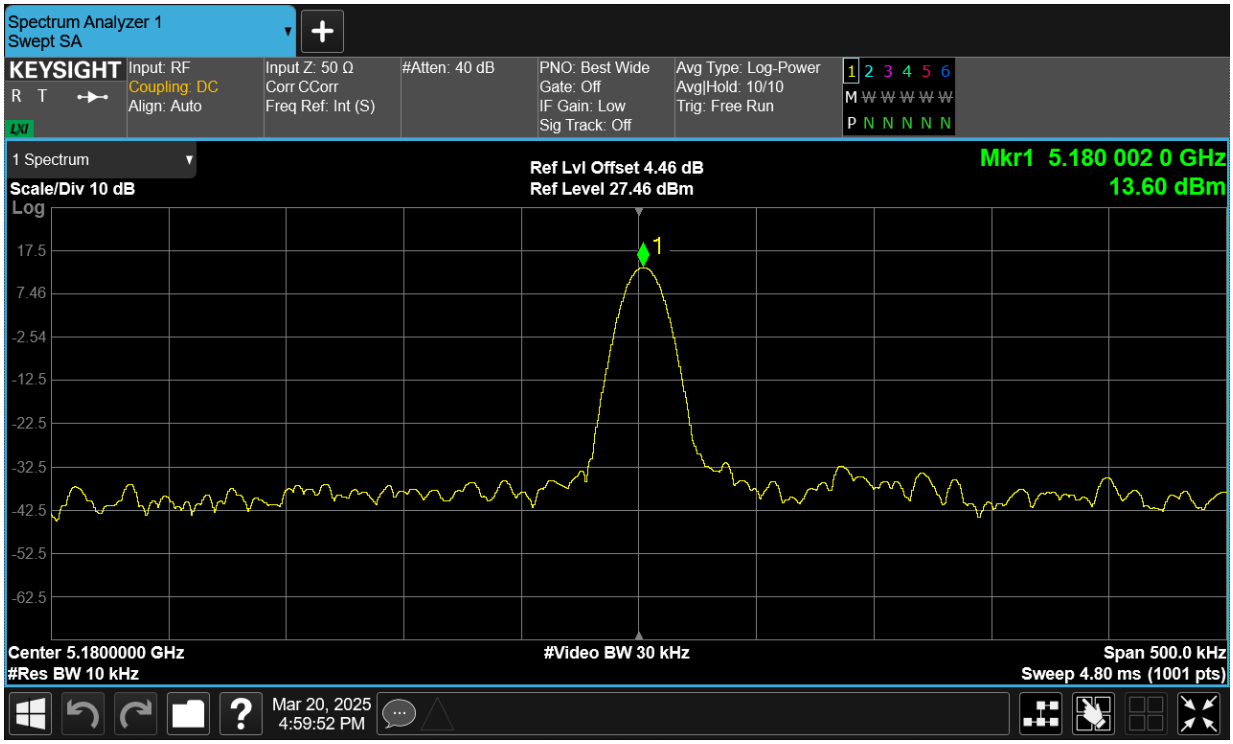
Test Graphs
Freq. Stability HVNT a 5180MHz Ant1



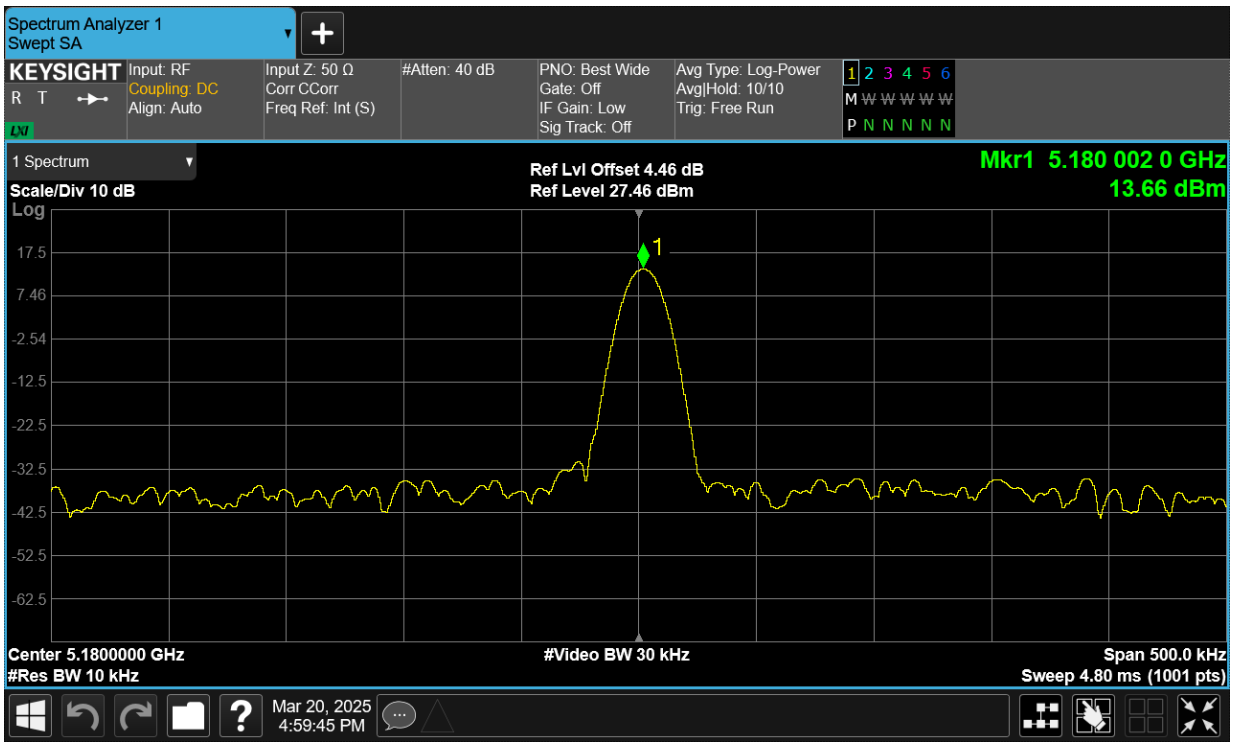
Freq. Stability LVNT a 5180MHz Ant1



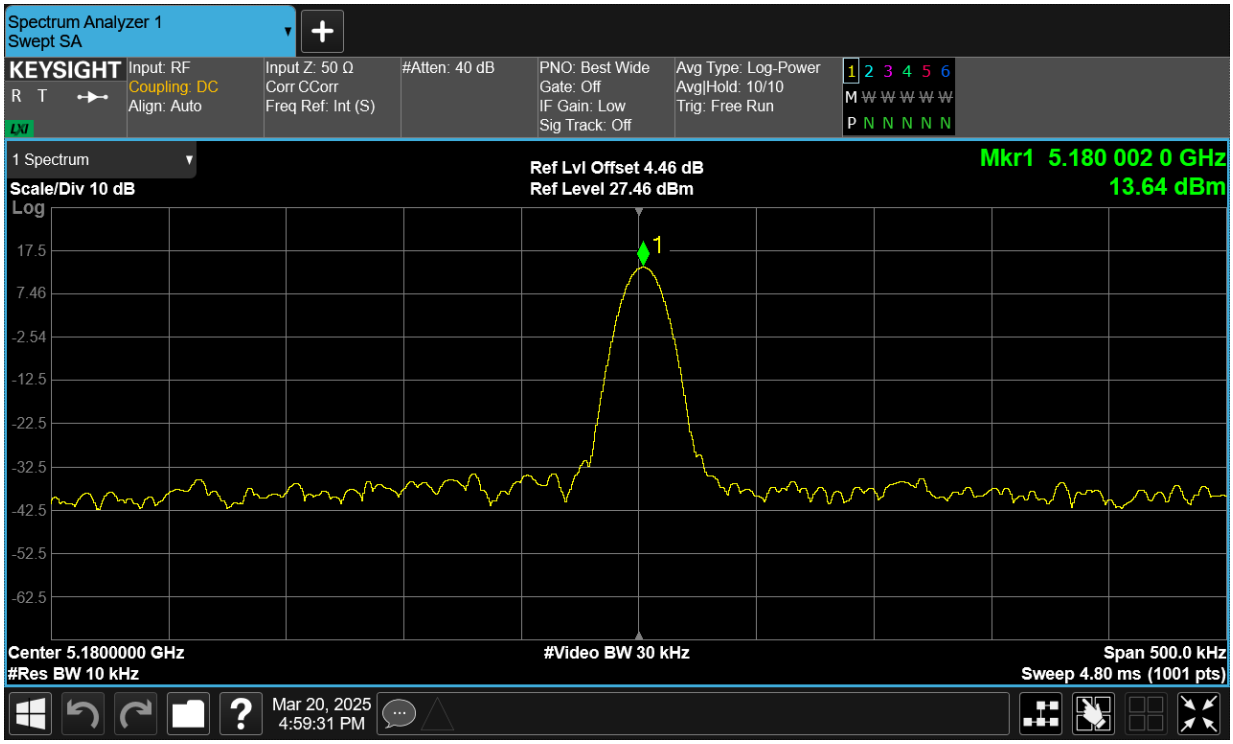
Freq. Stability NVHT a 5180MHz Ant1



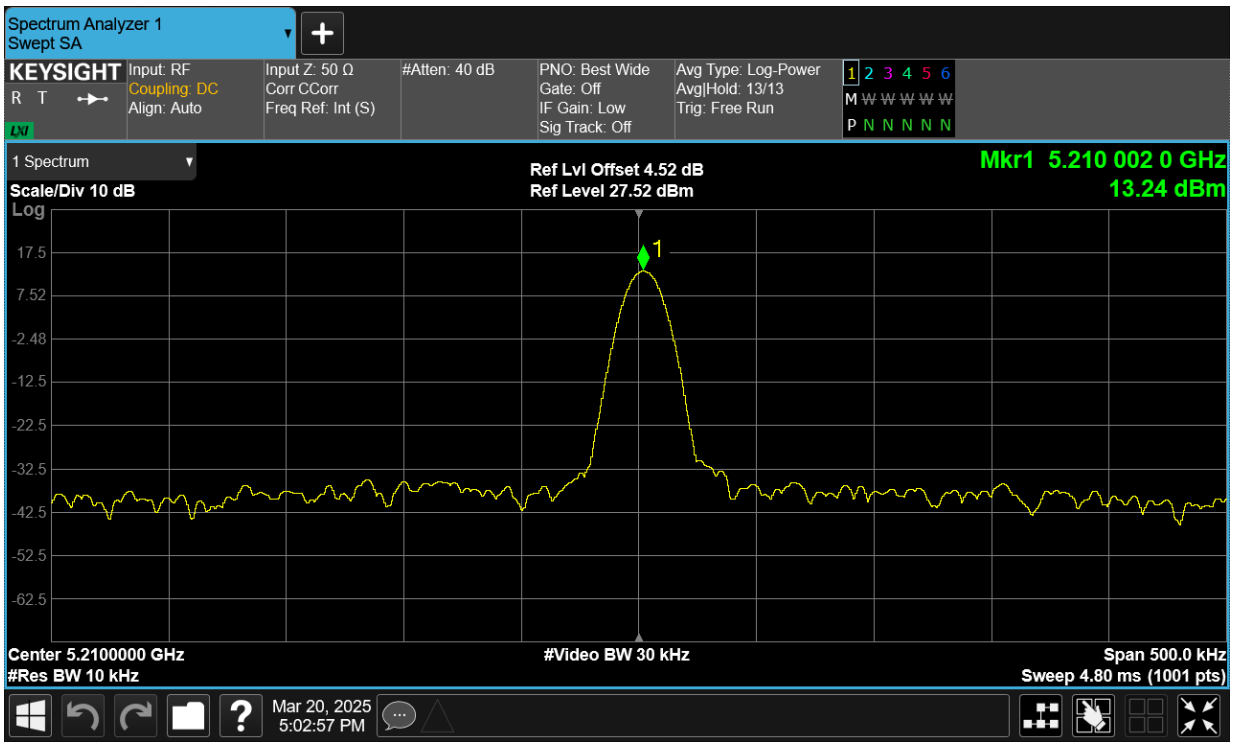
Freq. Stability NVLT a 5180MHz Ant1



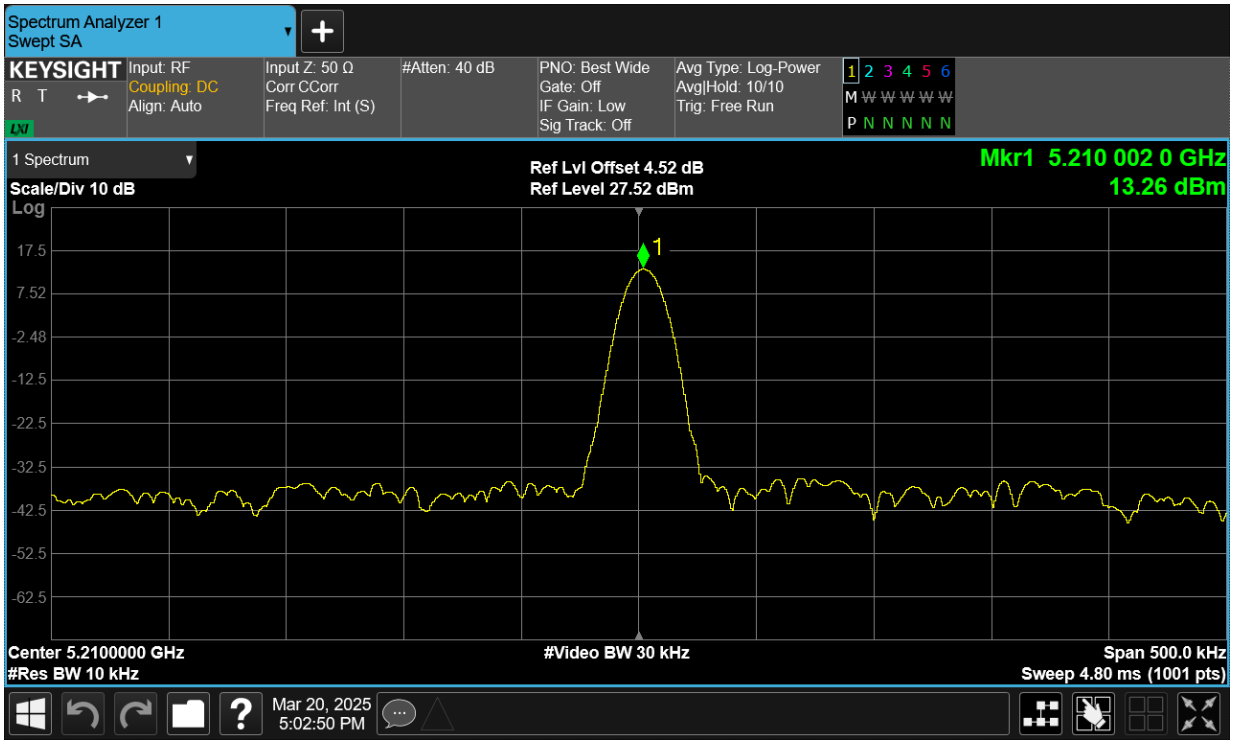
Freq. Stability NVNT a 5180MHz Ant1



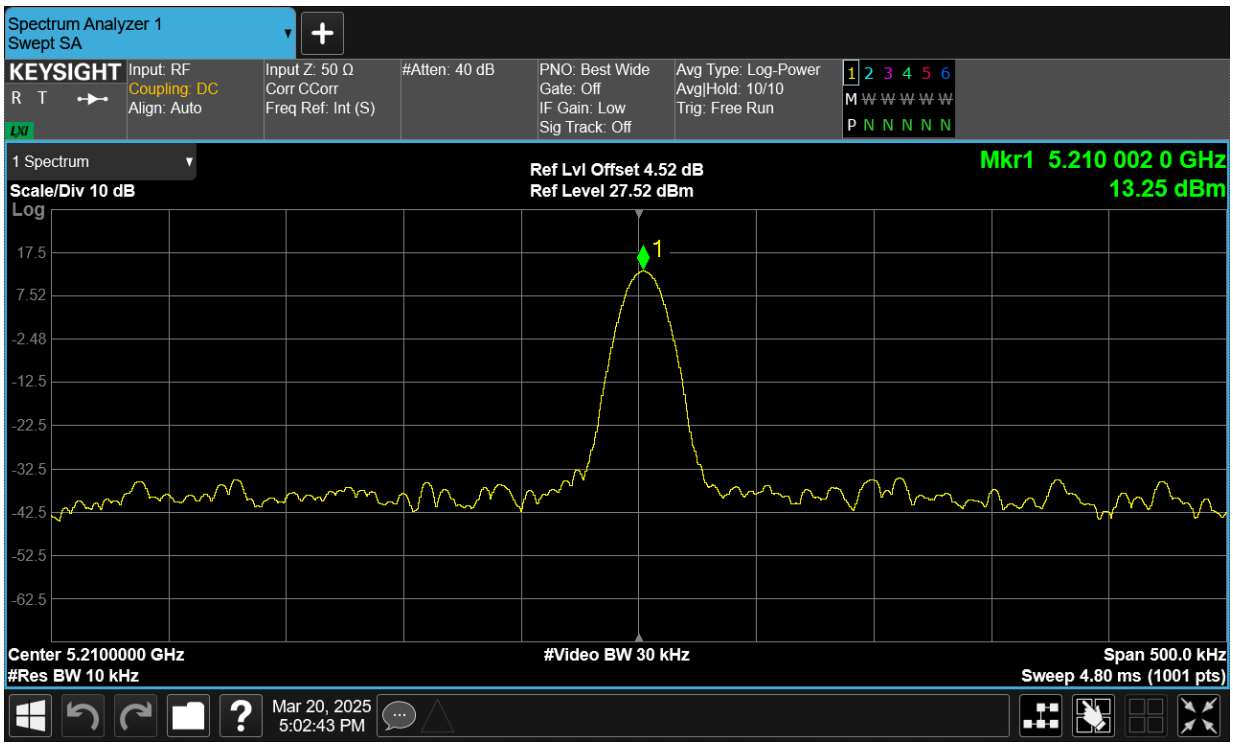
Freq. Stability HVNT ac80 5210MHz Ant1



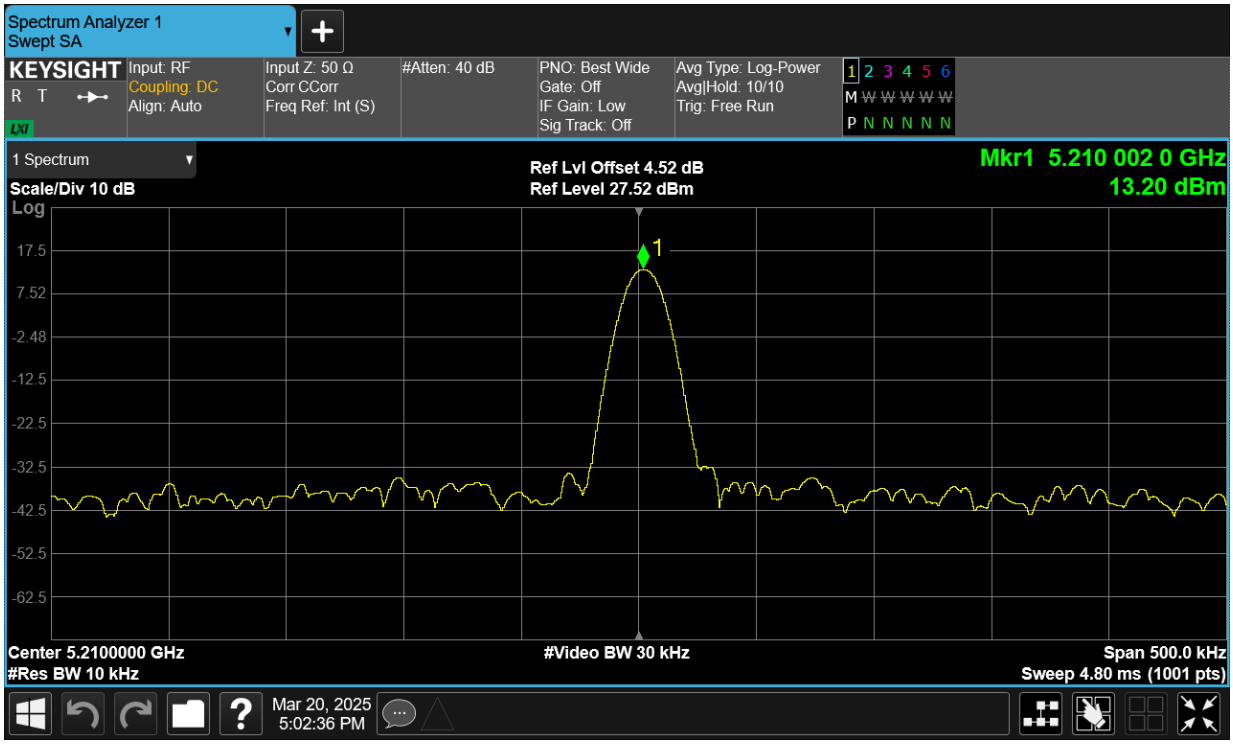
Freq. Stability LVNT ac80 5210MHz Ant1



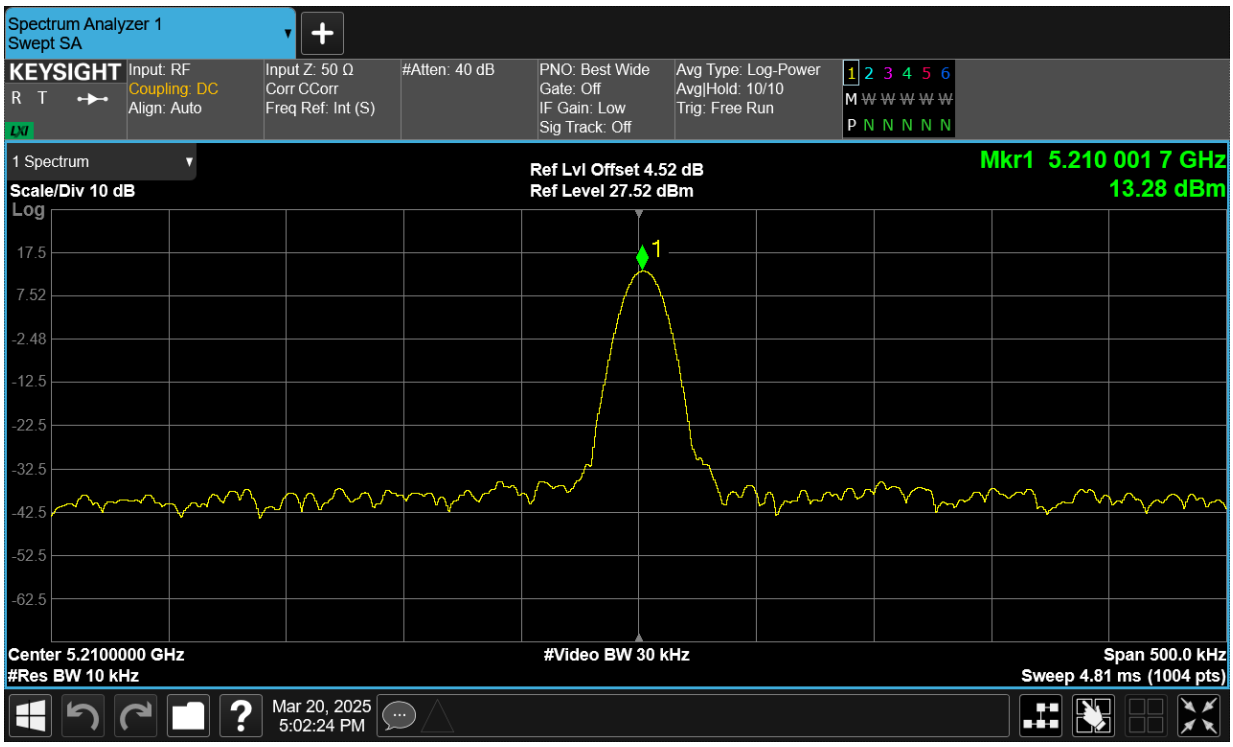
Freq. Stability NVHT ac80 5210MHz Ant1



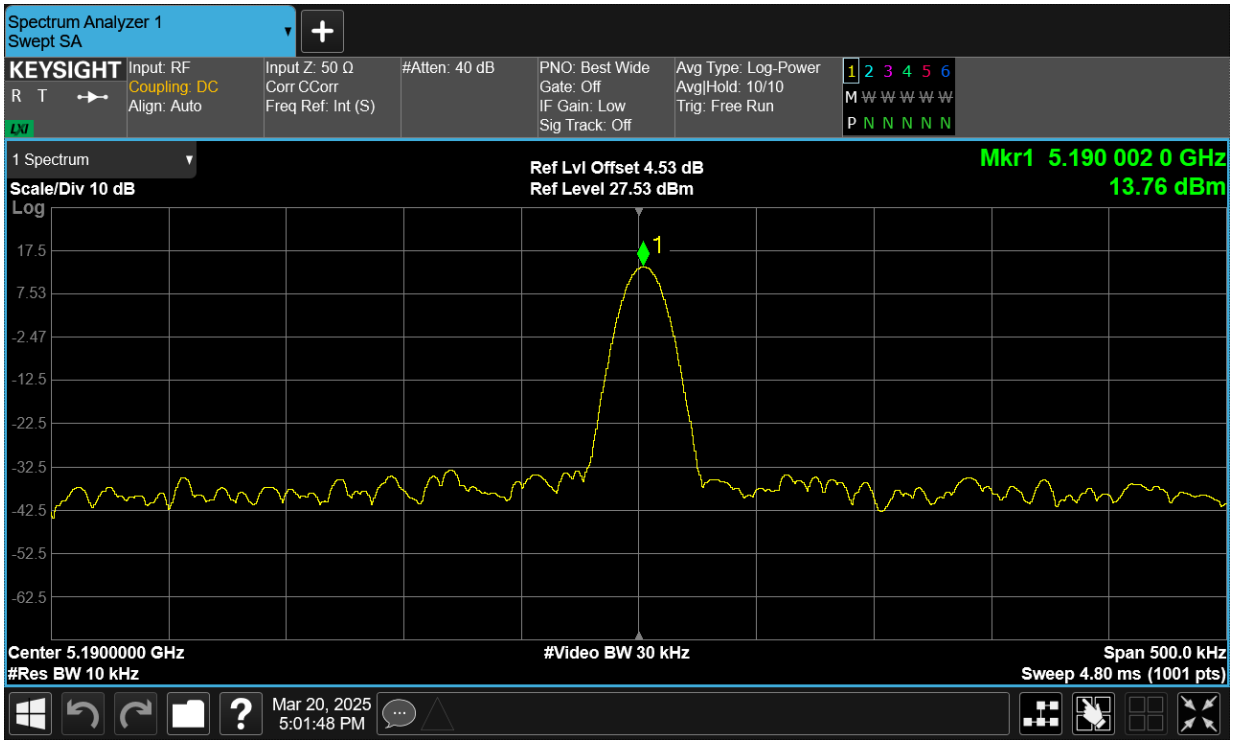
Freq. Stability NVLT ac80 5210MHz Ant1



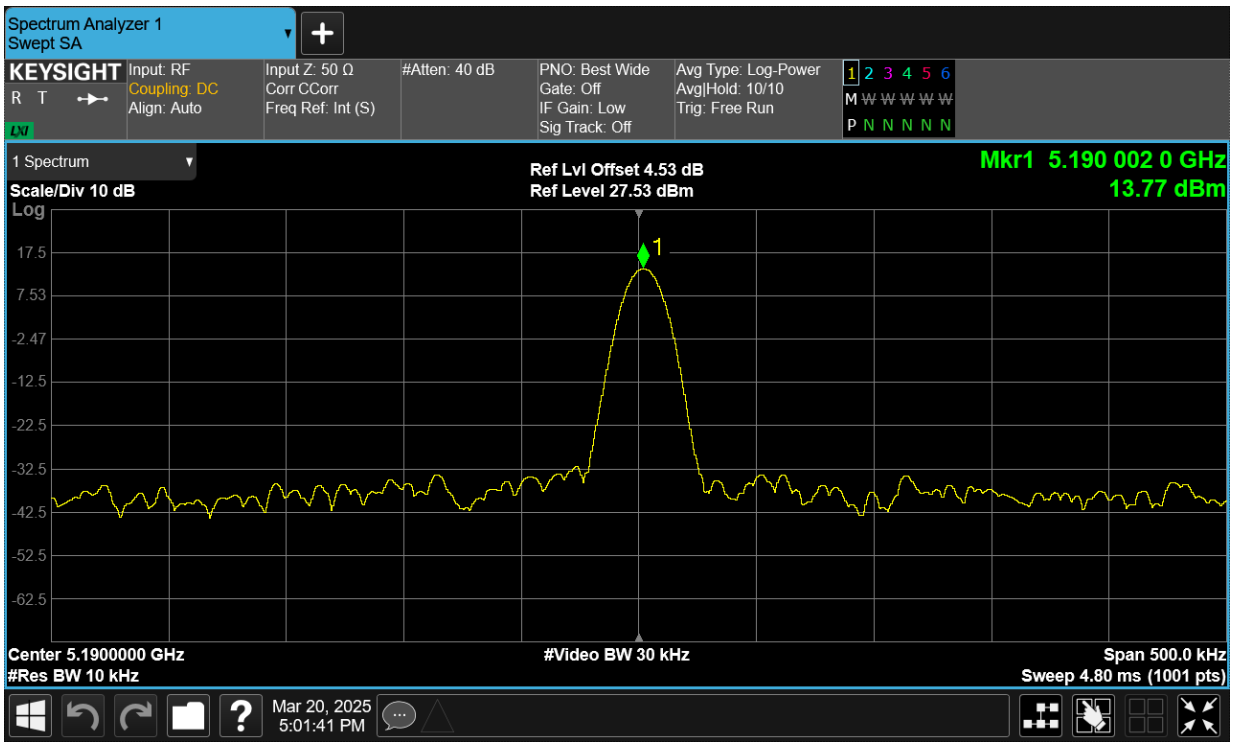
Freq. Stability NVNT ac80 5210MHz Ant1



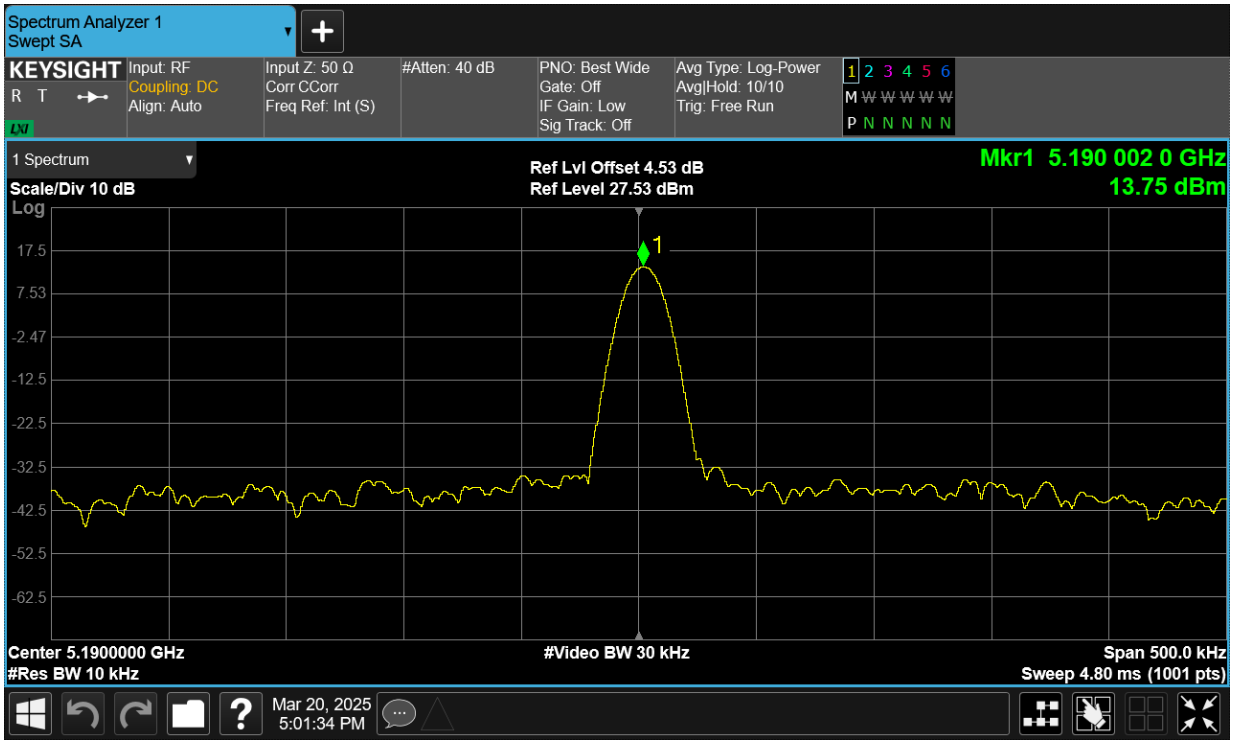
Freq. Stability HVNT n40 5190MHz Ant1



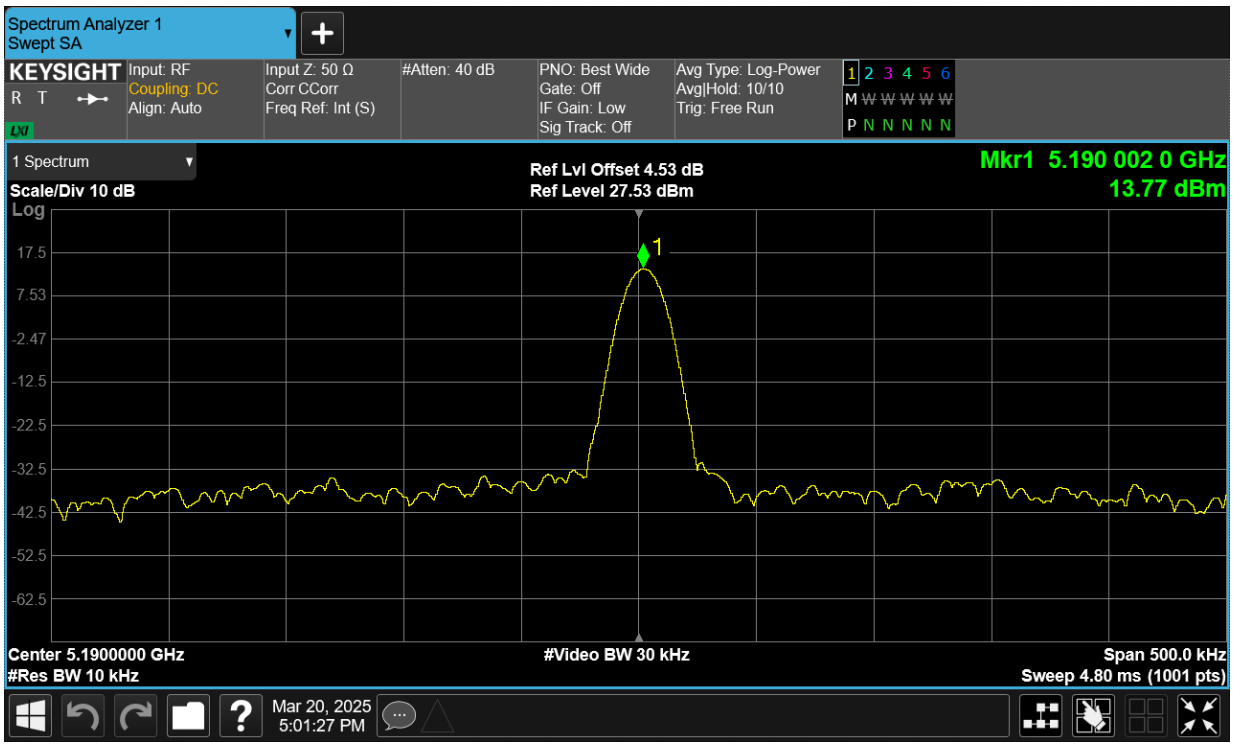
Freq. Stability LVNT n40 5190MHz Ant1



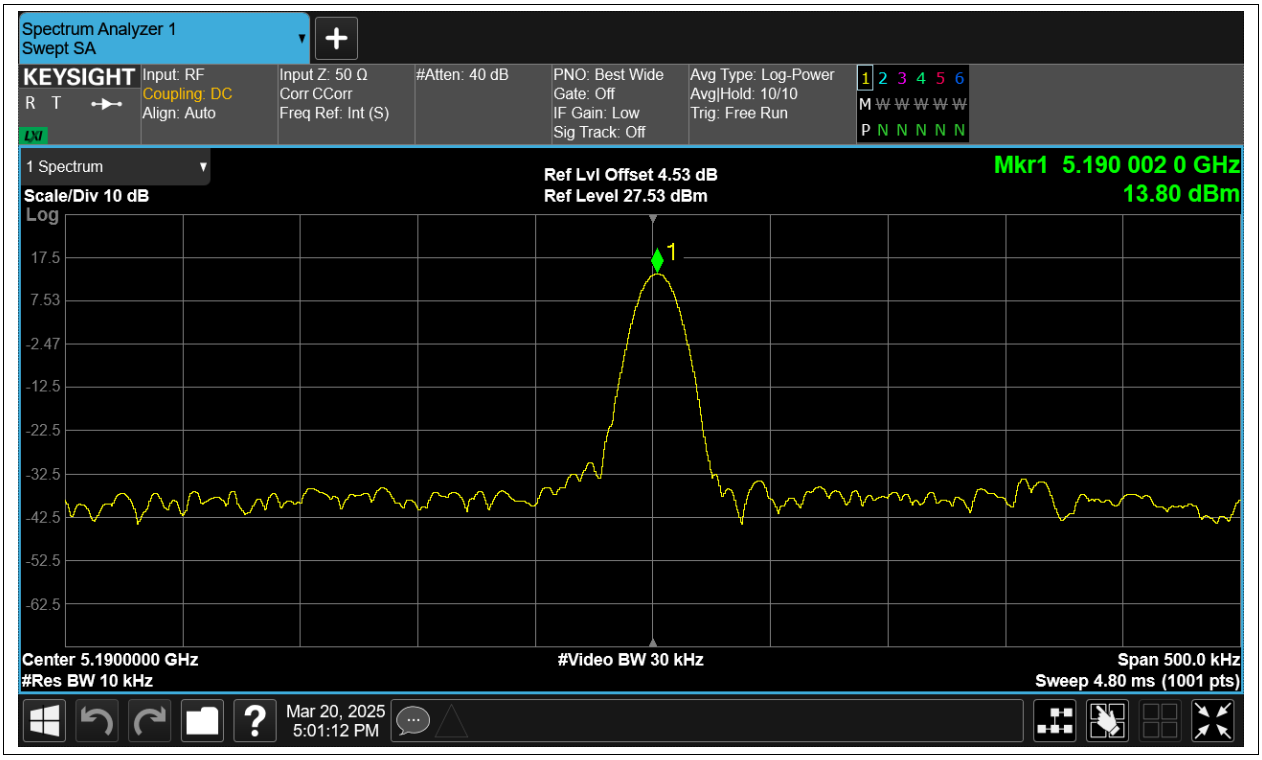
Freq. Stability NVHT n40 5190MHz Ant1



Freq. Stability NVLT n40 5190MHz Ant1



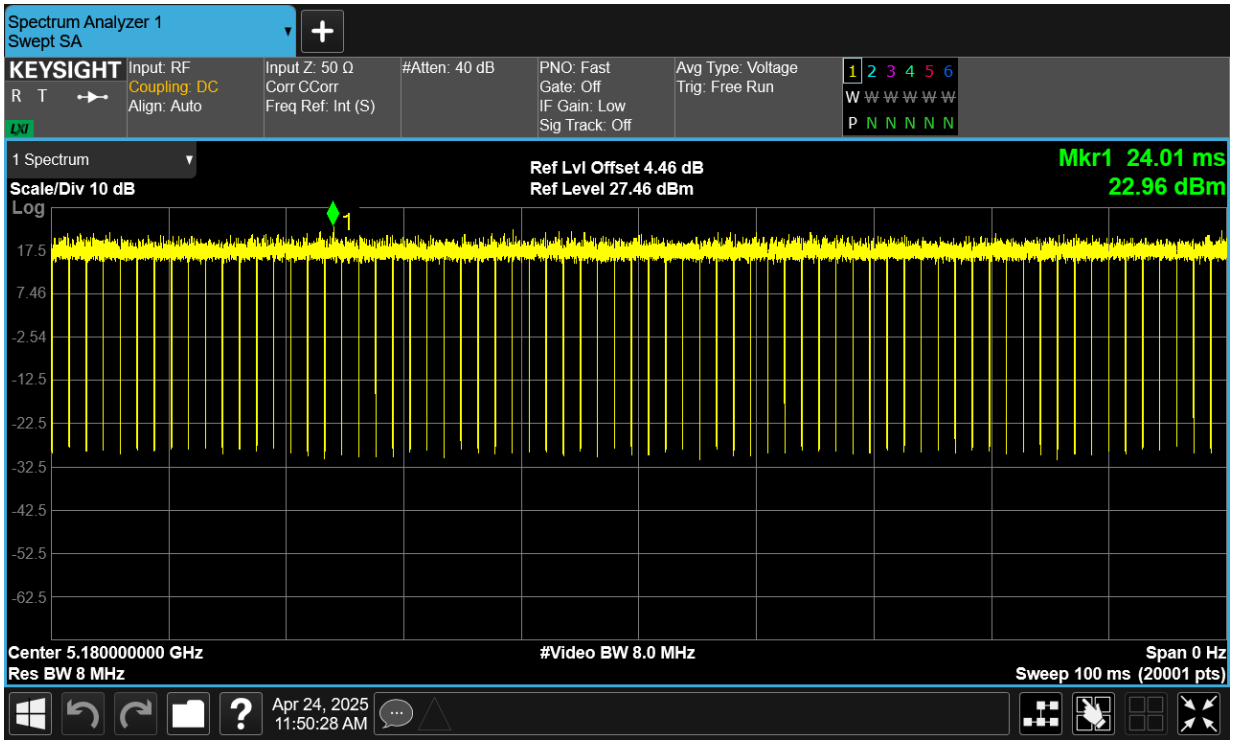
Freq. Stability NVNT n40 5190MHz Ant1


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: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 4.53 dB
Ref Level 27.53 dBm
Mkr1 5.190 002 0 GHz
13.80 dBm
Log
17.5
7.53
-2.47
-12.5
-22.5
-32.5
-42.5
-52.5
-62.5
Center 5.1900000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 500.0 kHz
Sweep 4.80 ms (1001 pts)
Mar 20, 2025
5:01:12 PM

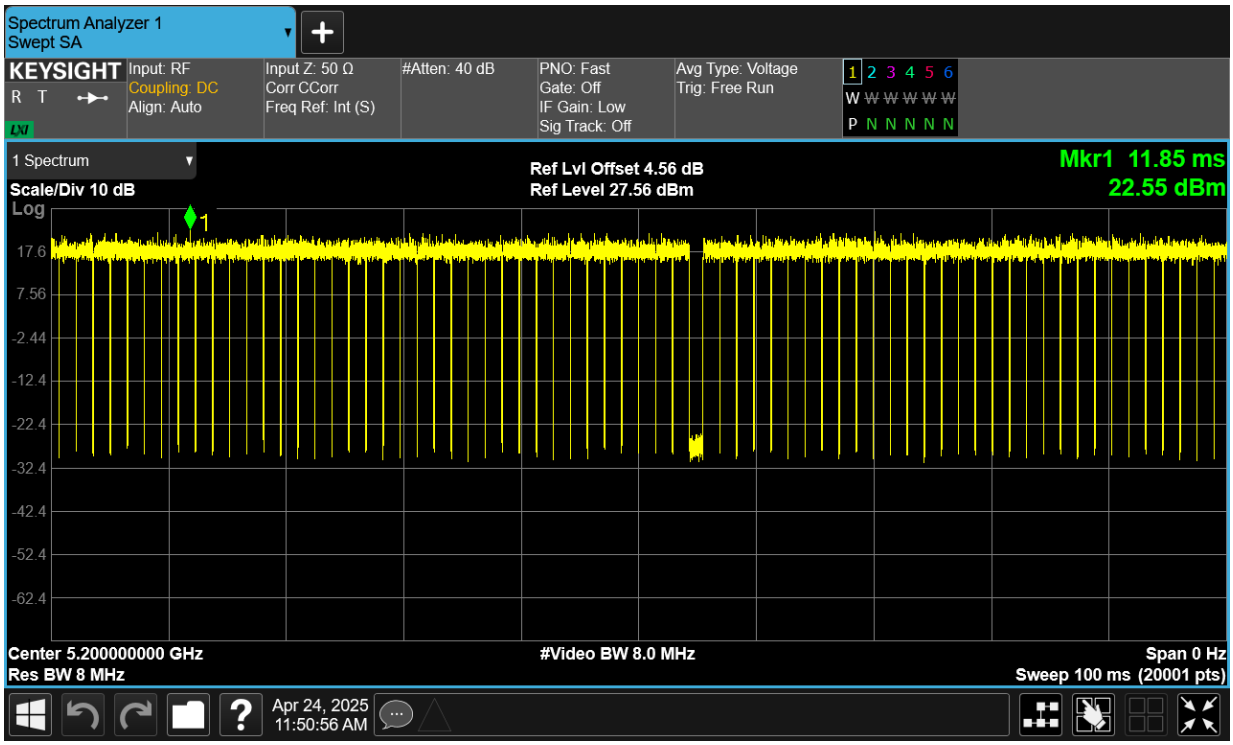
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	96.85	0.14
NVNT	a	5200	Ant1	95.68	0.19
NVNT	a	5240	Ant1	96.55	0.15
NVNT	ac20	5180	Ant1	96.12	0.17
NVNT	ac20	5200	Ant1	95.62	0.19
NVNT	ac20	5240	Ant1	96.12	0.17
NVNT	ac40	5190	Ant1	92.31	0.35
NVNT	ac40	5230	Ant1	92.46	0.34
NVNT	ac80	5210	Ant1	85.97	0.66
NVNT	n20	5180	Ant1	96.36	0.16
NVNT	n20	5200	Ant1	95.95	0.18
NVNT	n20	5240	Ant1	95.78	0.19
NVNT	n40	5190	Ant1	91.75	0.37
NVNT	n40	5230	Ant1	92.98	0.32

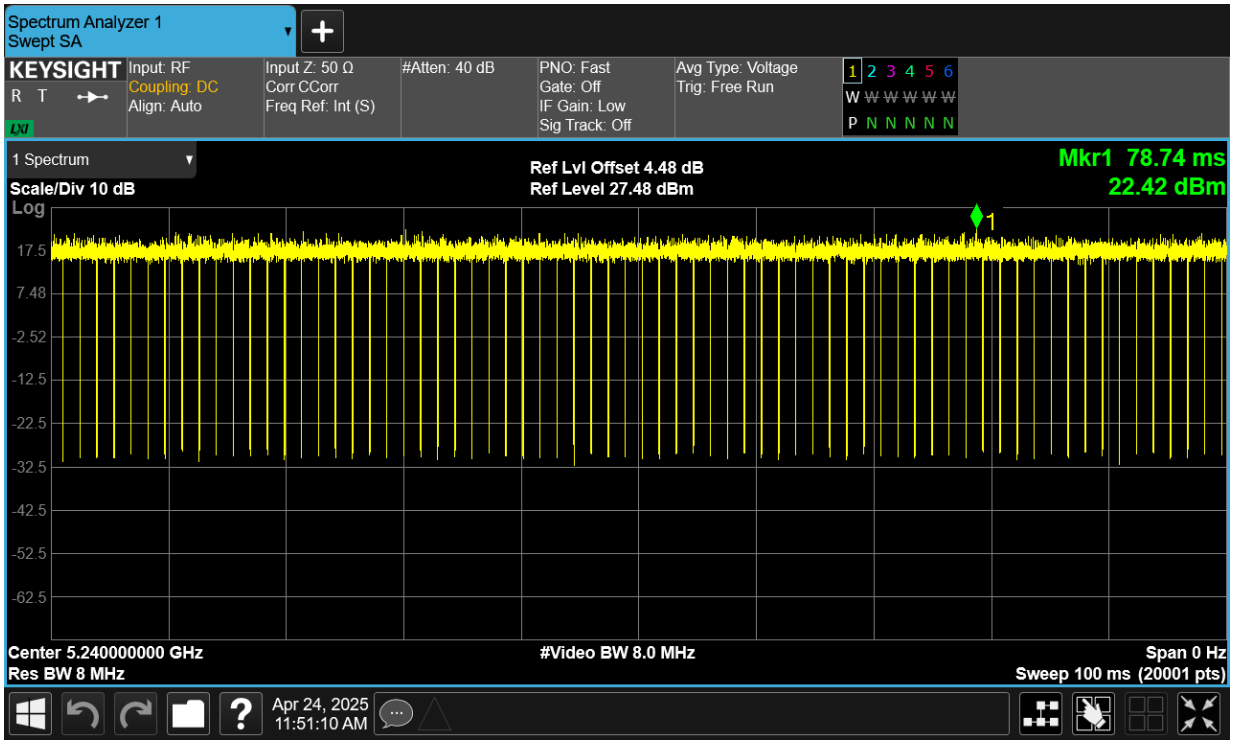
Test Graphs
Duty Cycle NVNT a 5180MHz Ant1



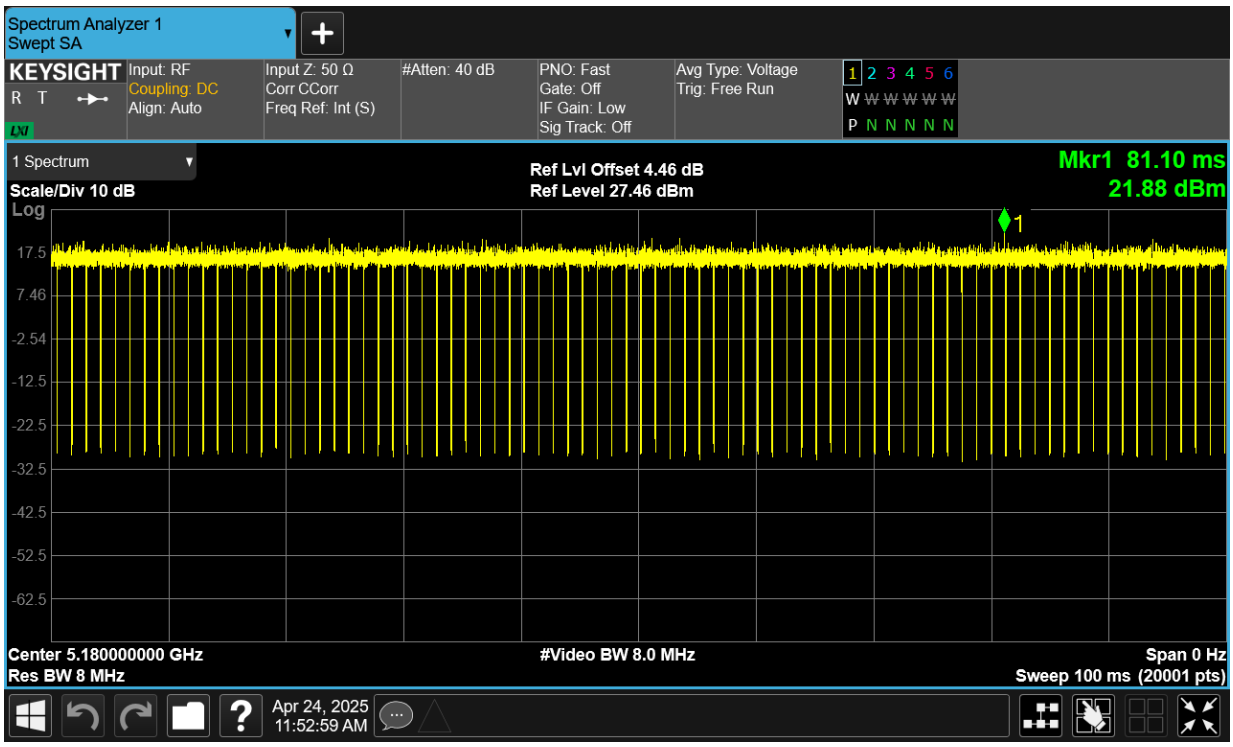
Duty Cycle NVNT a 5200MHz Ant1



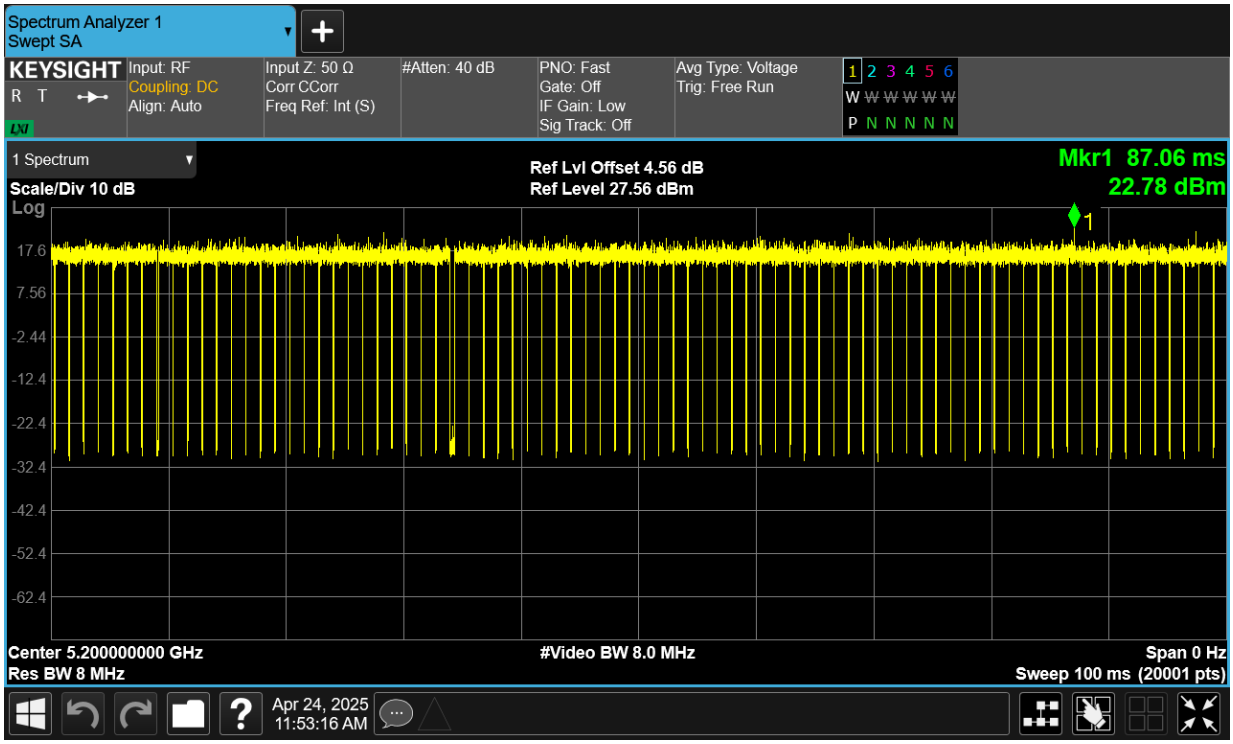
Duty Cycle NVNT a 5240MHz Ant1



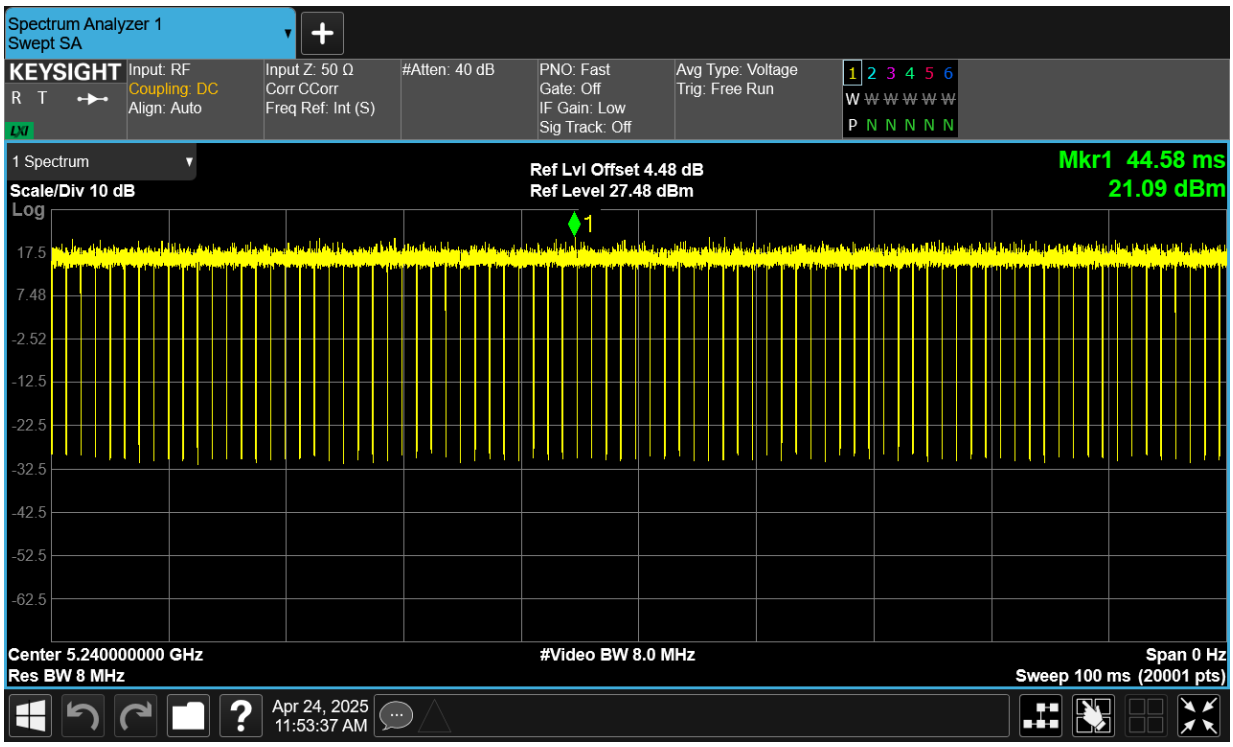
Duty Cycle NVNT ac20 5180MHz Ant1



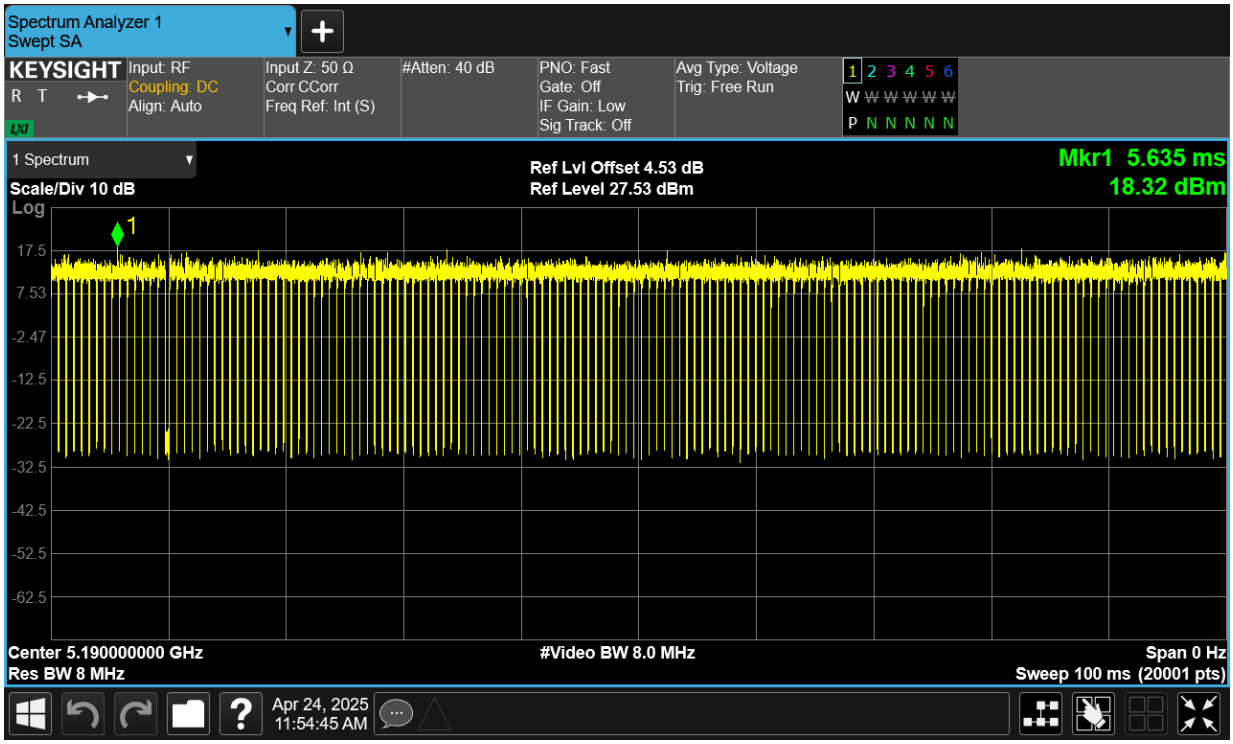
Duty Cycle NVNT ac20 5200MHz Ant1



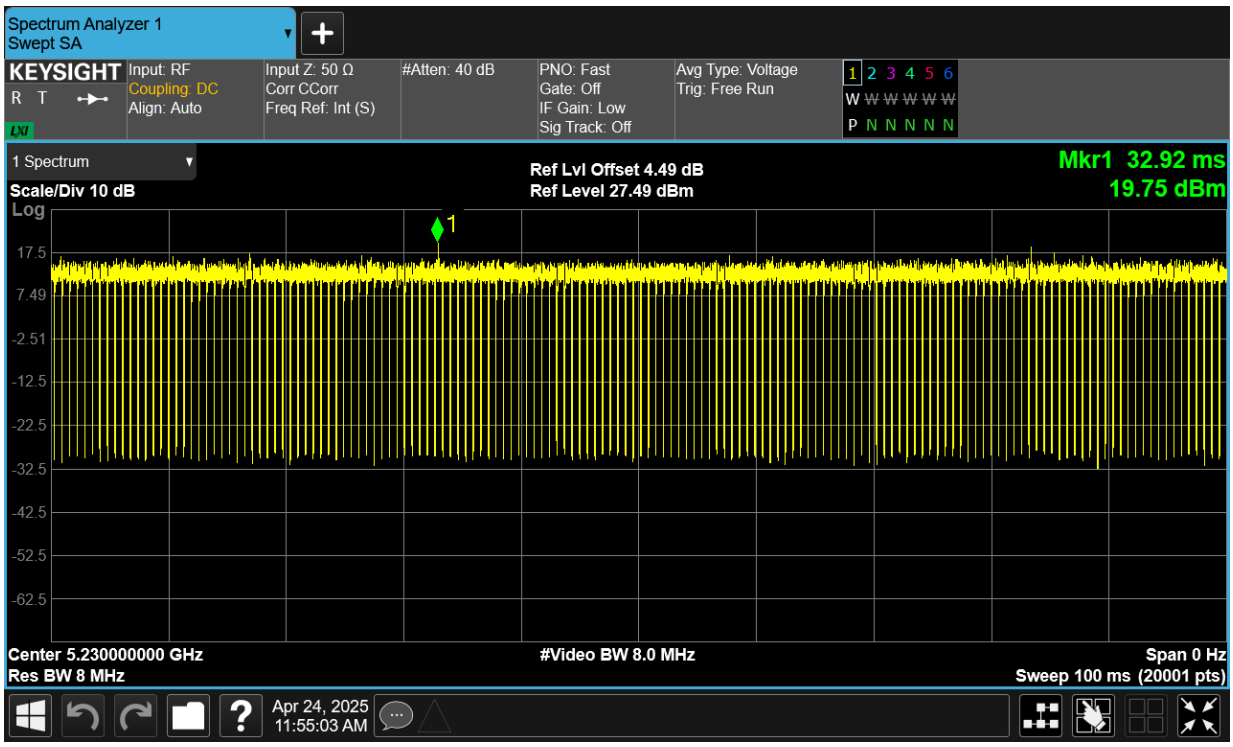
Duty Cycle NVNT ac20 5240MHz Ant1



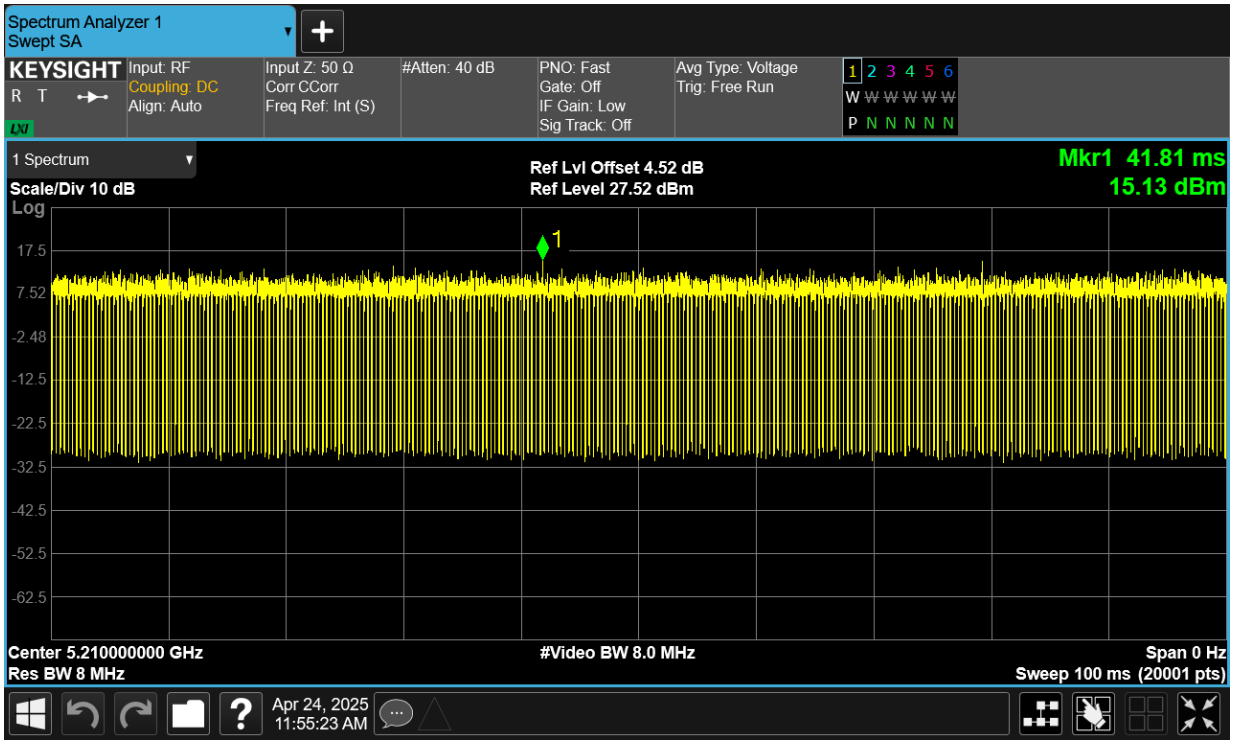
Duty Cycle NVNT ac40 5190MHz Ant1



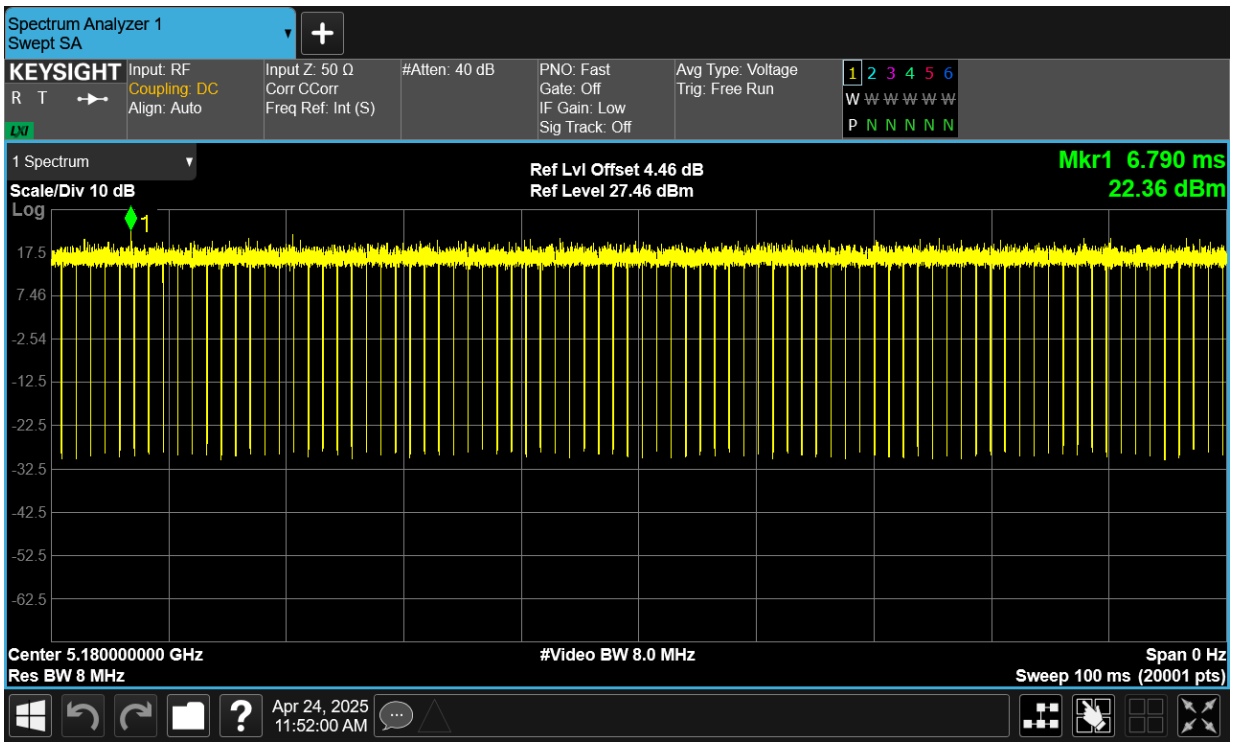
Duty Cycle NVNT ac40 5230MHz Ant1



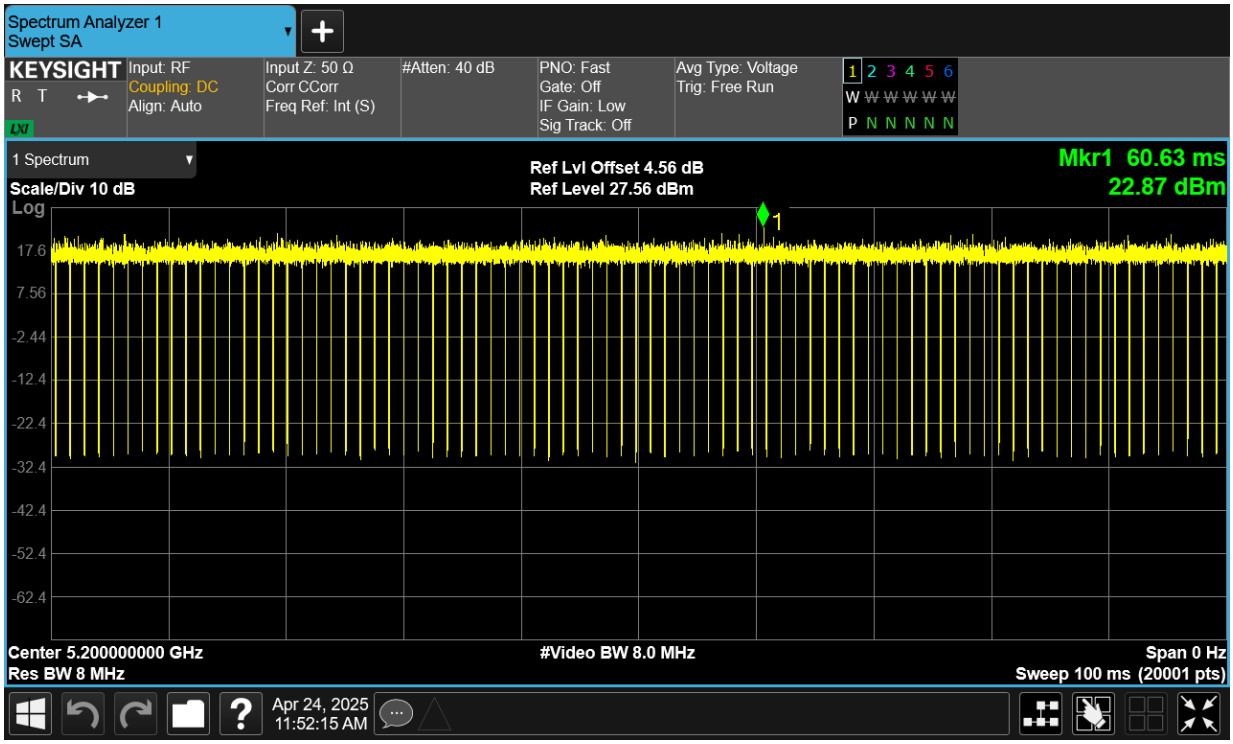
Duty Cycle NVNT ac80 5210MHz Ant1



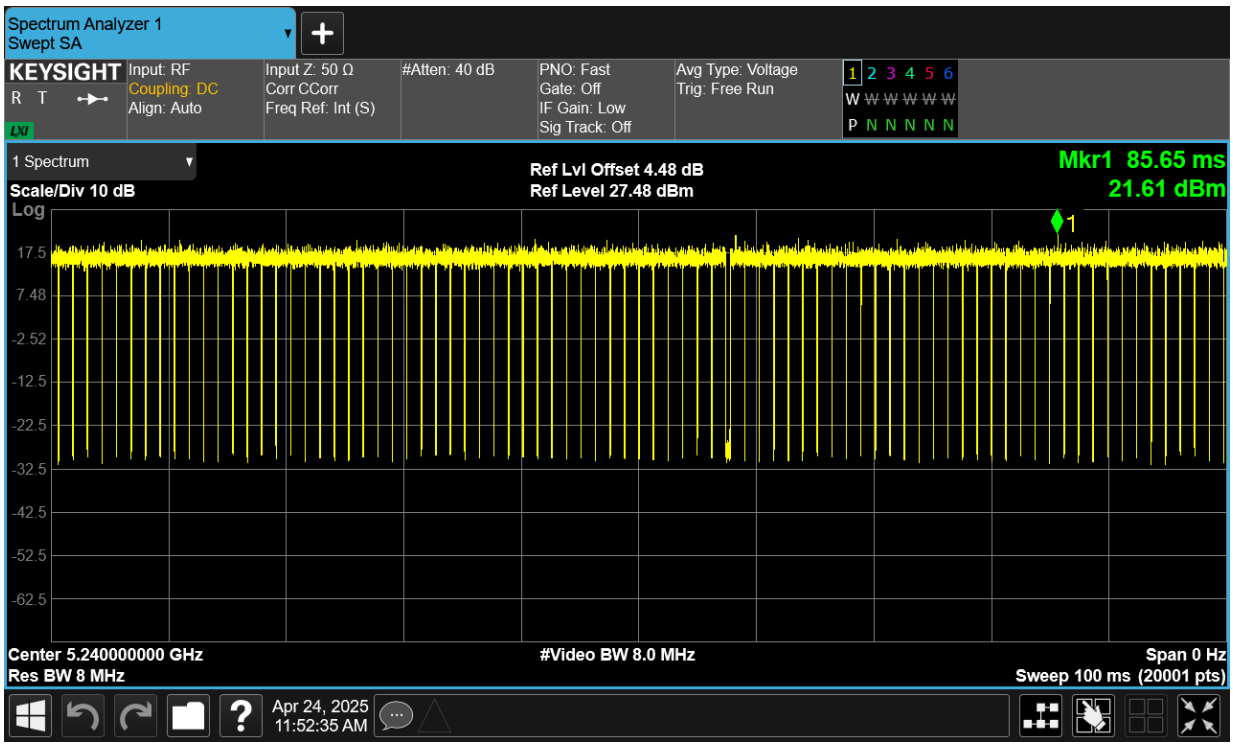
Duty Cycle NVNT n20 5180MHz Ant1



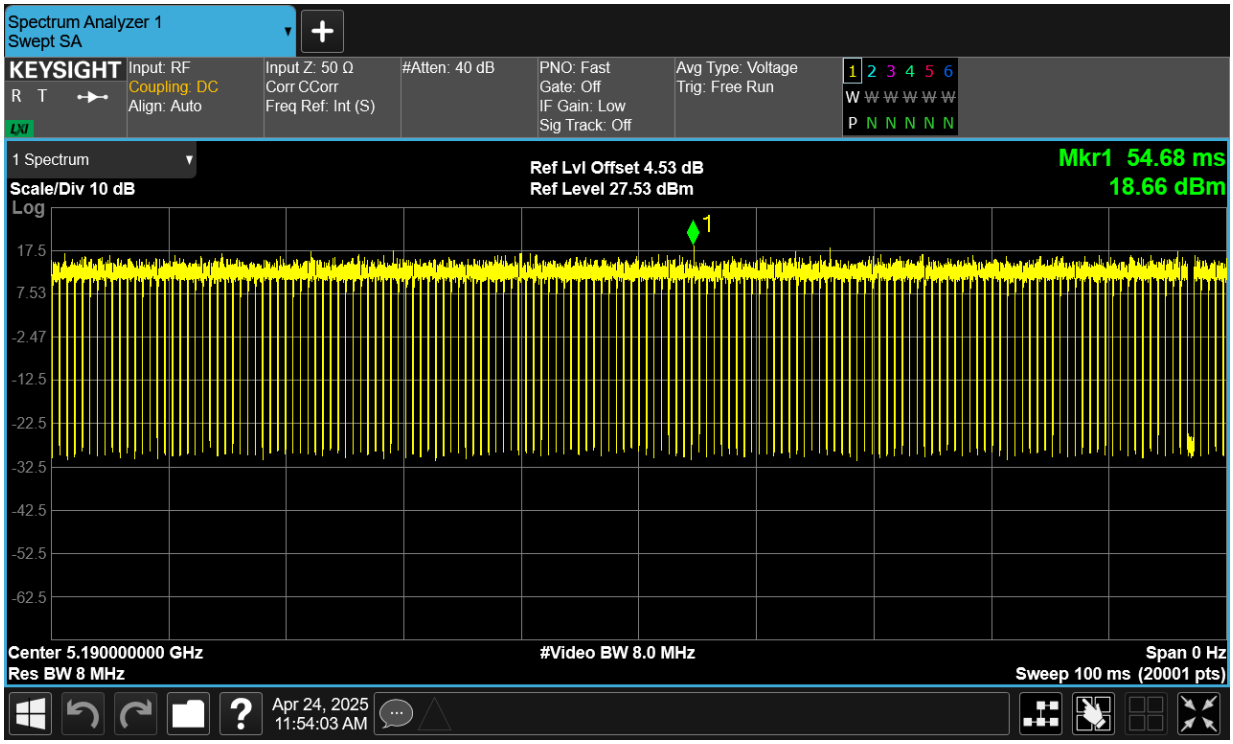
Duty Cycle NVNT n20 5200MHz Ant1



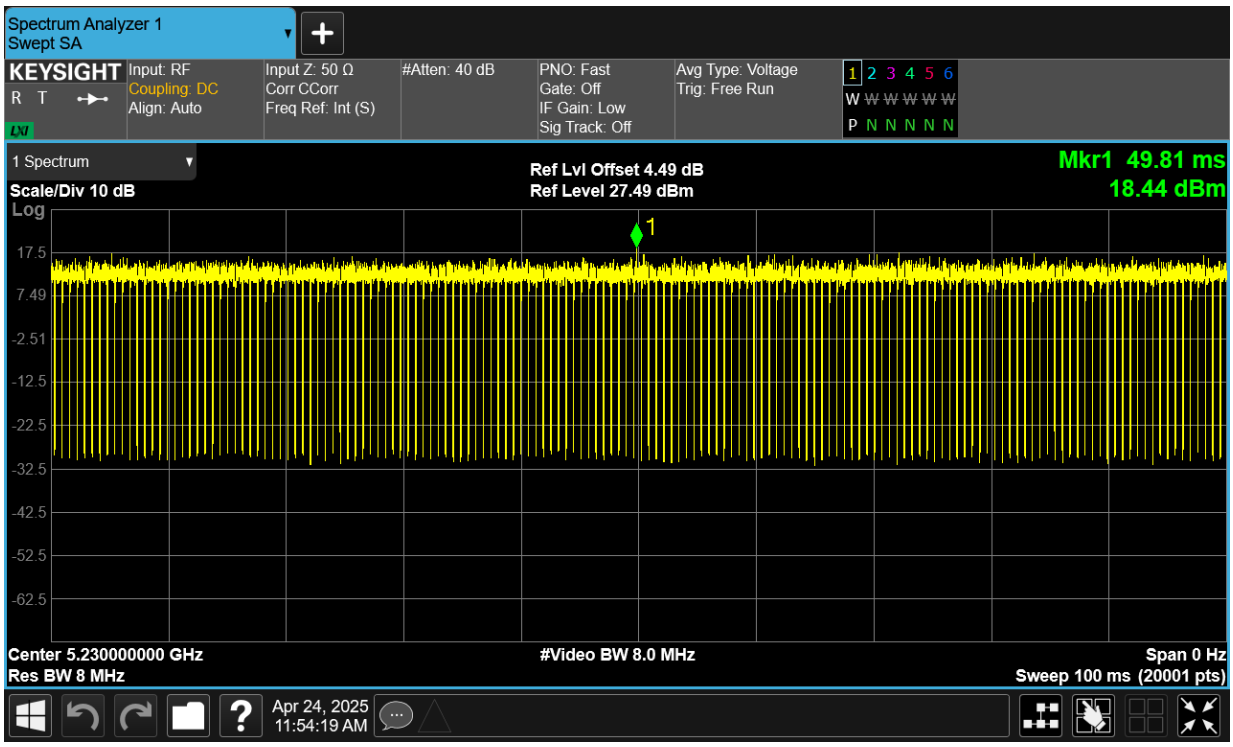
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Maximum Conducted Output Power

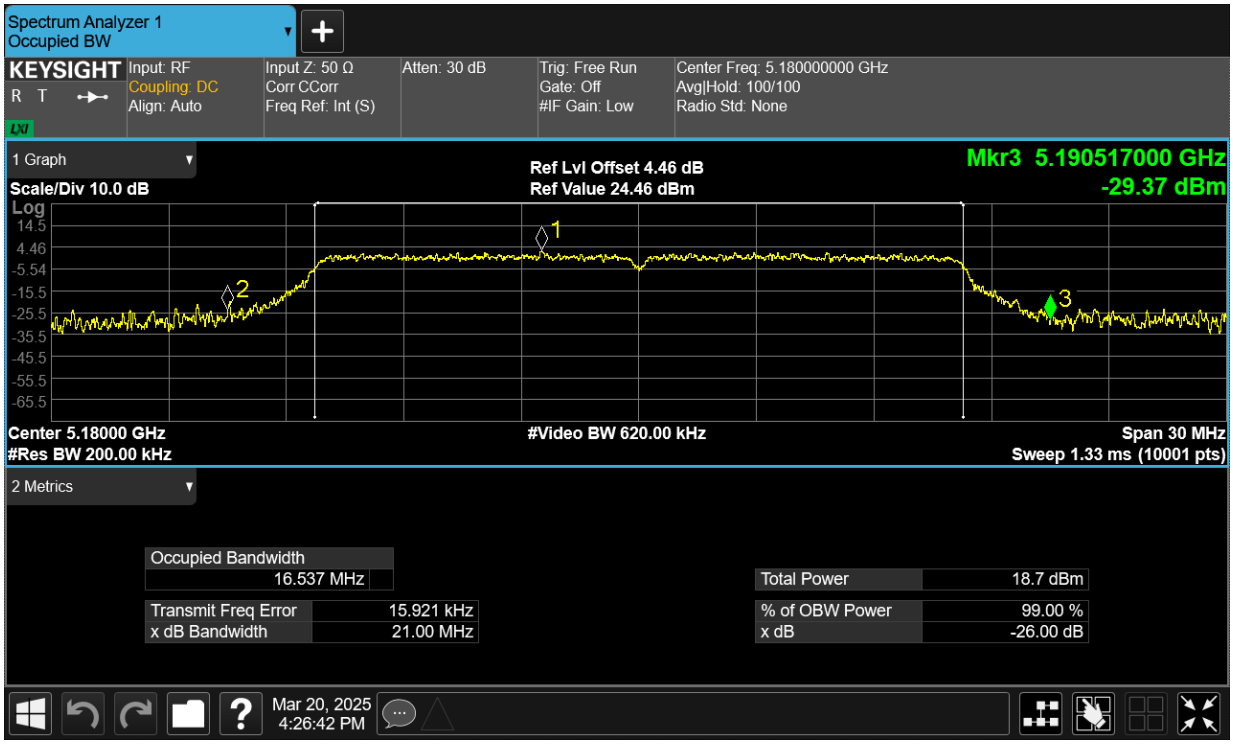
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	13.12	0.14	13.26	24	Pass
NVNT	a	5200	Ant1	13.51	0.15	13.66	24	Pass
NVNT	a	5240	Ant1	12.95	0.15	13.1	24	Pass
NVNT	ac20	5180	Ant1	12.33	0.17	12.5	24	Pass
NVNT	ac20	5200	Ant1	12.87	0.17	13.04	24	Pass
NVNT	ac20	5240	Ant1	12.29	0.17	12.46	24	Pass
NVNT	ac40	5190	Ant1	12.39	0.33	12.72	23	Pass
NVNT	ac40	5230	Ant1	12.26	0.33	12.59	24	Pass
NVNT	ac80	5210	Ant1	12.45	0.63	13.08	24	Pass
NVNT	n20	5180	Ant1	12.42	0.18	12.6	24	Pass
NVNT	n20	5200	Ant1	12.87	0.18	13.05	24	Pass
NVNT	n20	5240	Ant1	12.3	0.18	12.48	24	Pass
NVNT	n40	5190	Ant1	12.41	0.36	12.77	24	Pass
NVNT	n40	5230	Ant1	12.27	0.32	12.59	24	Pass

-26dB Bandwidth

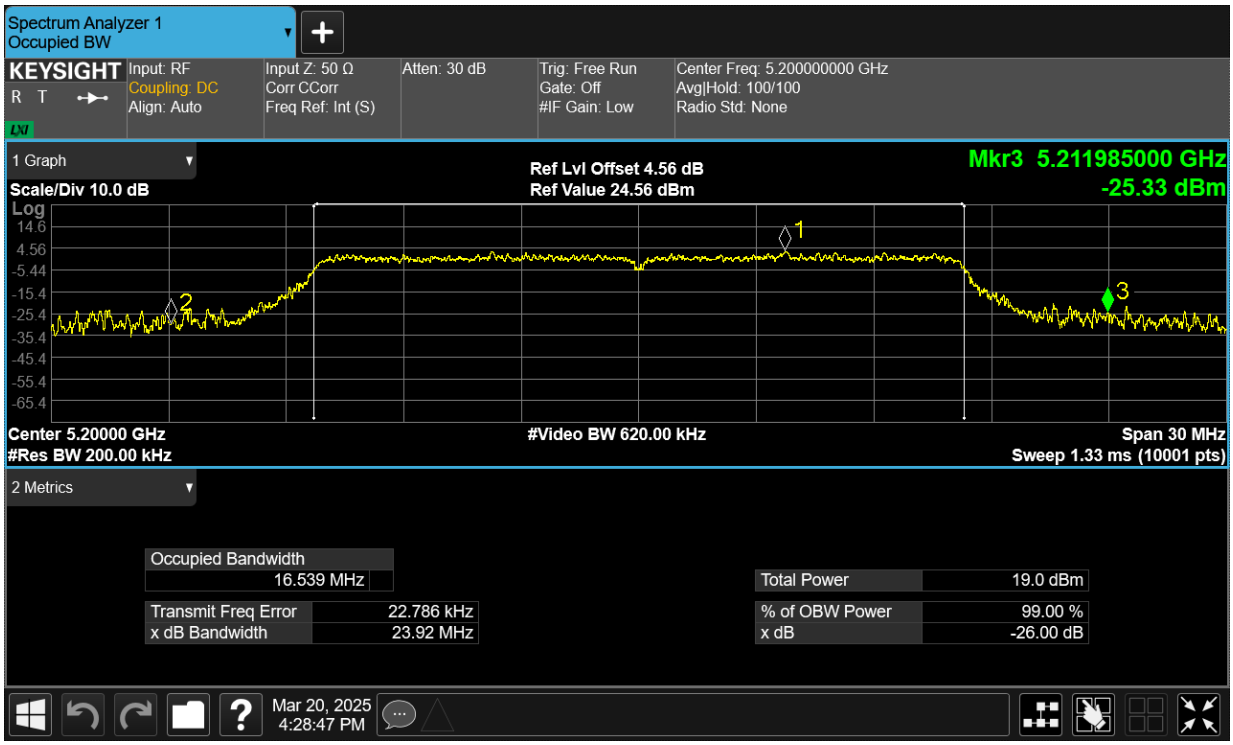
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	21.003
NVNT	a	5200	Ant1	23.924
NVNT	a	5240	Ant1	22.152
NVNT	ac20	5180	Ant1	24.715
NVNT	ac20	5200	Ant1	27.45
NVNT	ac20	5240	Ant1	26.553
NVNT	ac40	5190	Ant1	41.825
NVNT	ac40	5230	Ant1	42.454
NVNT	ac80	5210	Ant1	78.277
NVNT	n20	5180	Ant1	25.842
NVNT	n20	5200	Ant1	25.699
NVNT	n20	5240	Ant1	26.599
NVNT	n40	5190	Ant1	40.771
NVNT	n40	5230	Ant1	40.038

Test Graphs

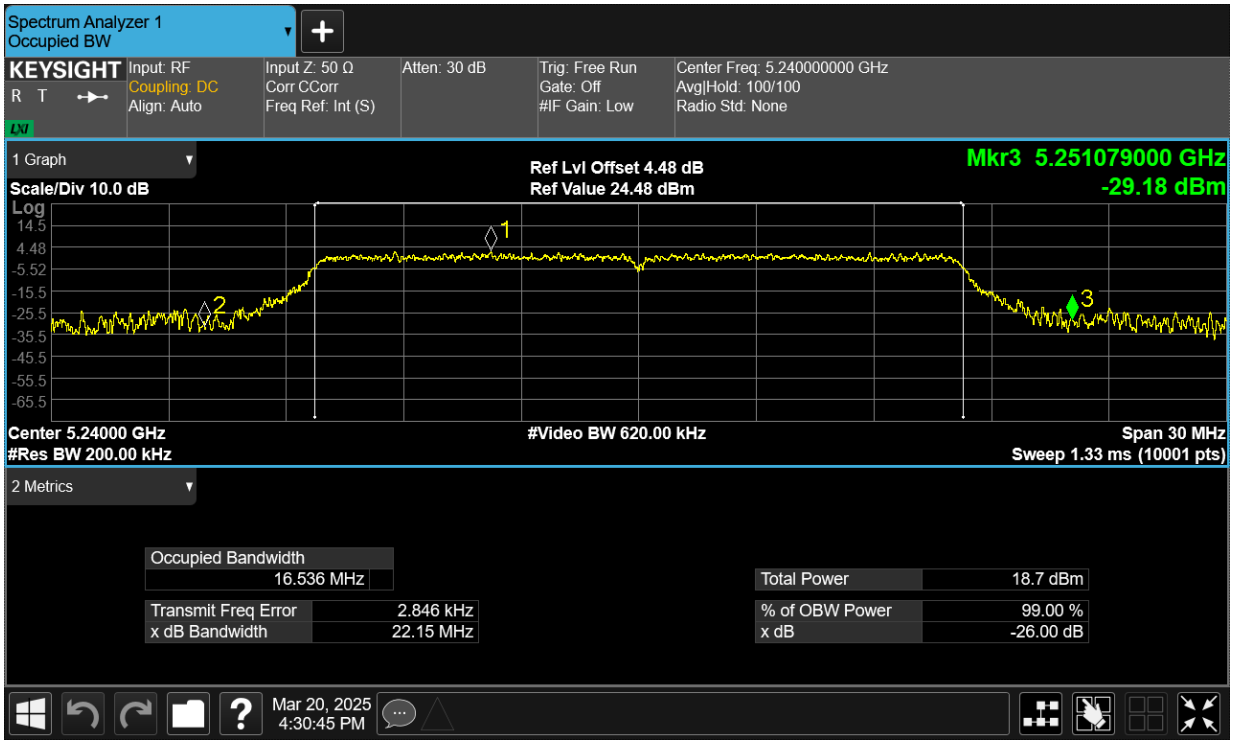
-26dB Bandwidth NVNT a 5180MHz Ant1



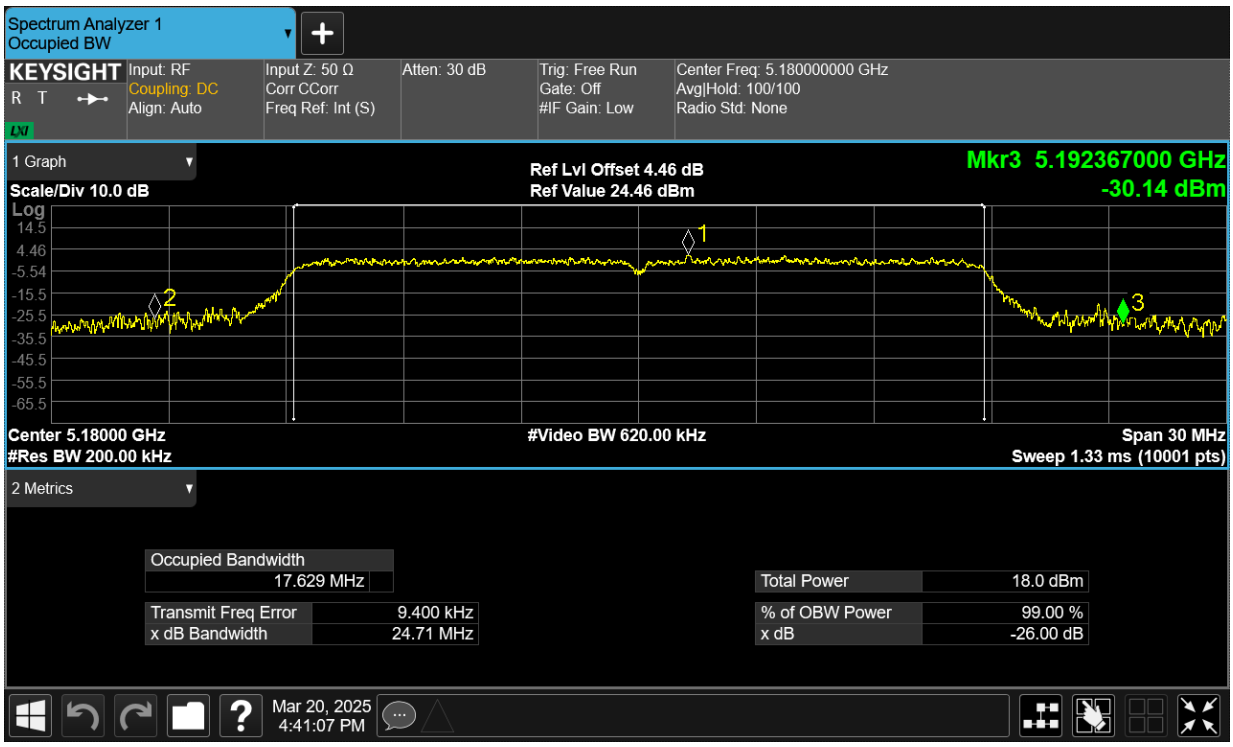
-26dB Bandwidth NVNT a 5200MHz Ant1



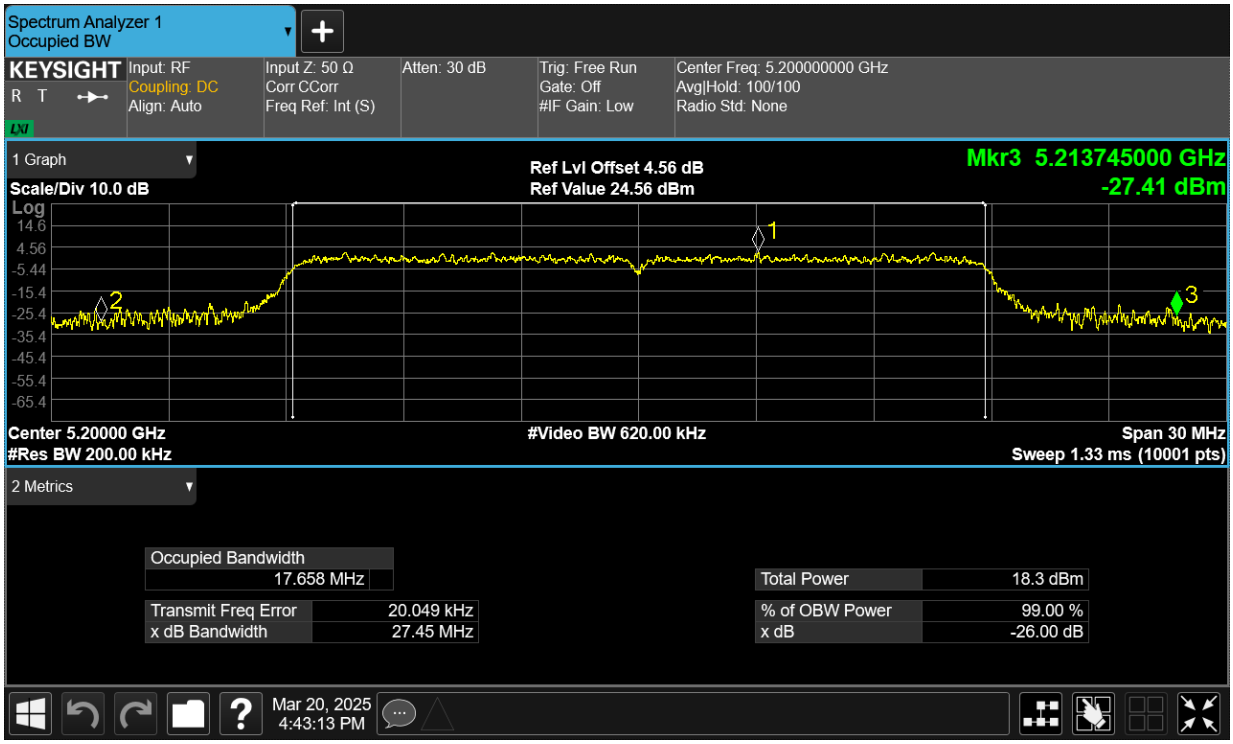
-26dB Bandwidth NVNT a 5240MHz Ant1



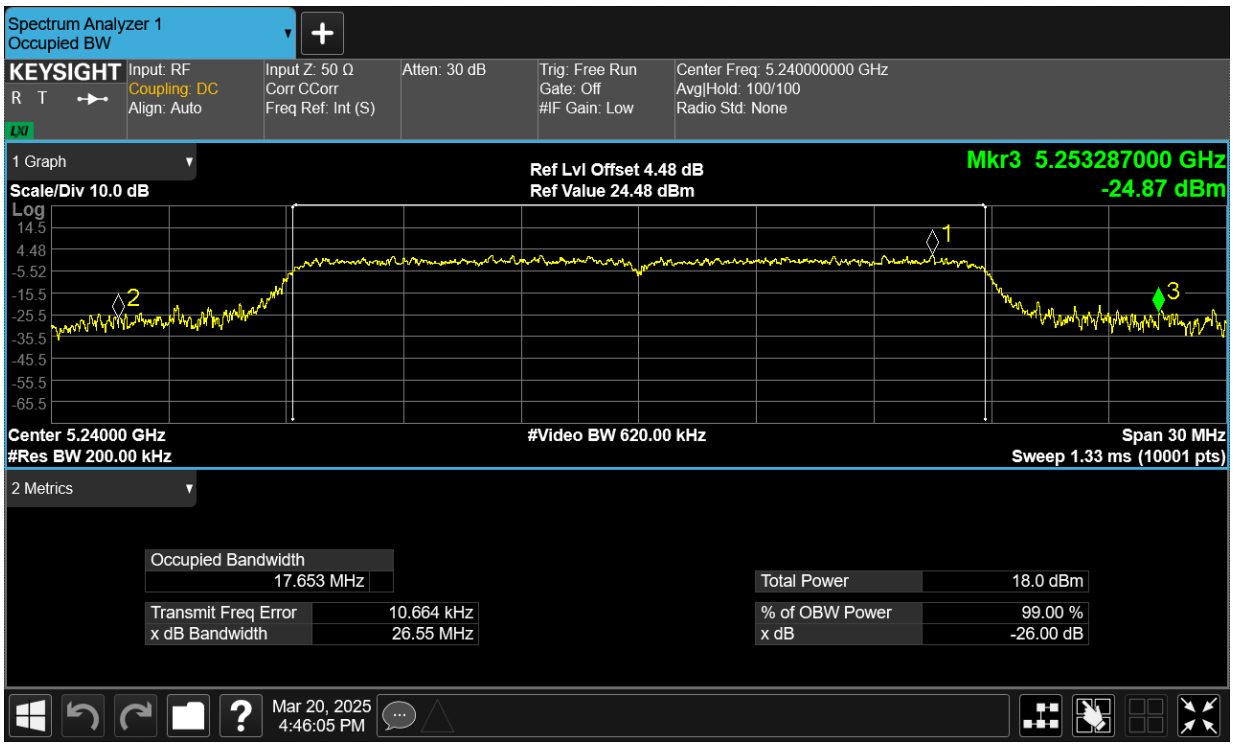
-26dB Bandwidth NVNT ac20 5180MHz Ant1



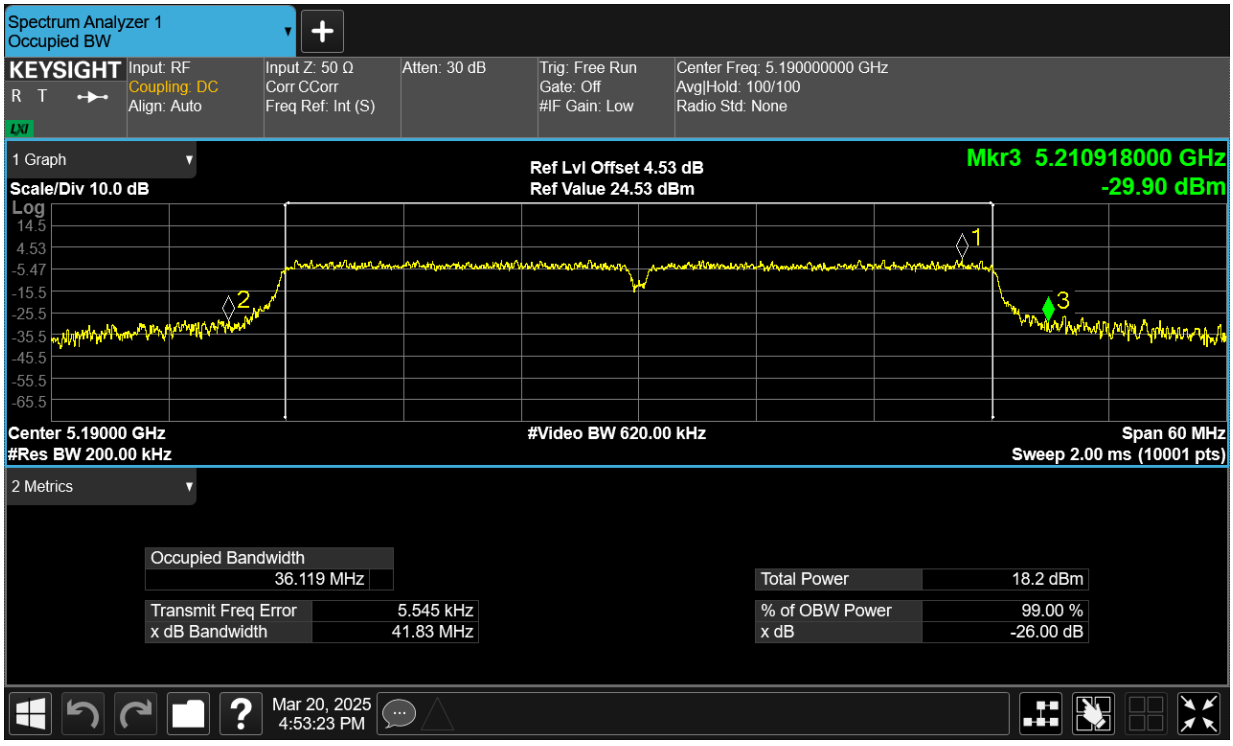
-26dB Bandwidth NVNT ac20 5200MHz Ant1



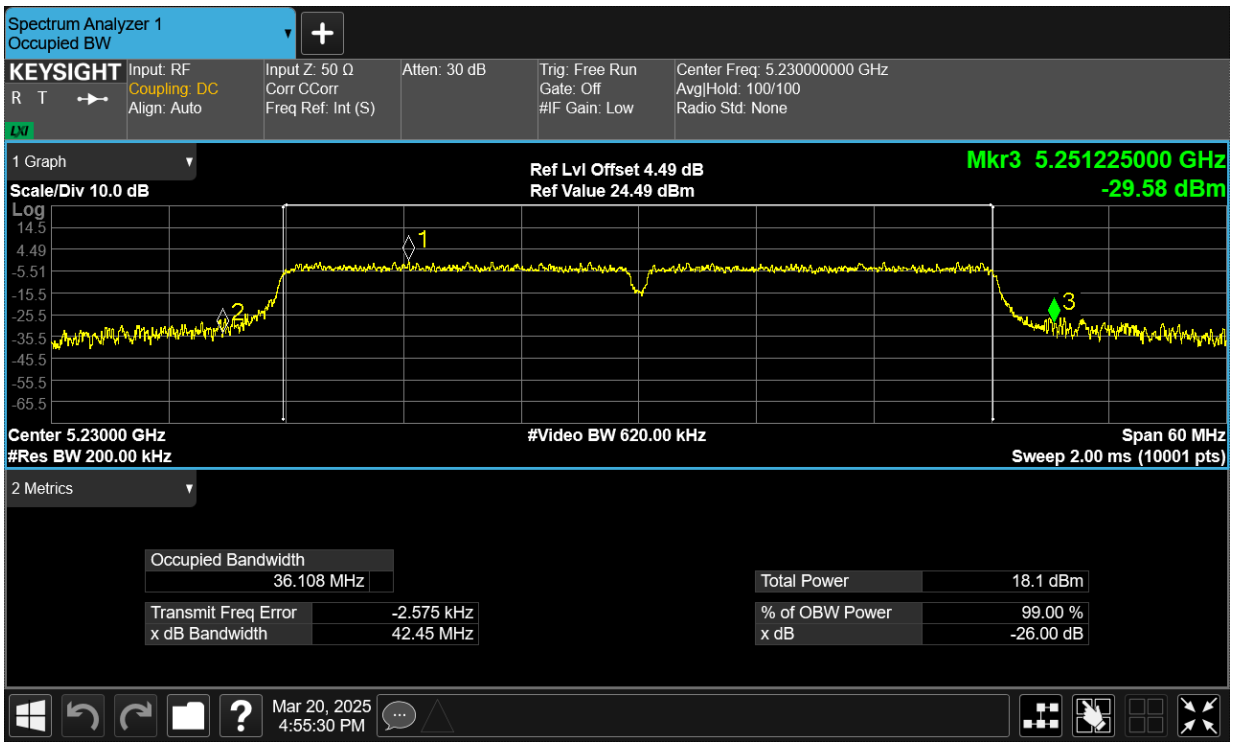
-26dB Bandwidth NVNT ac20 5240MHz Ant1



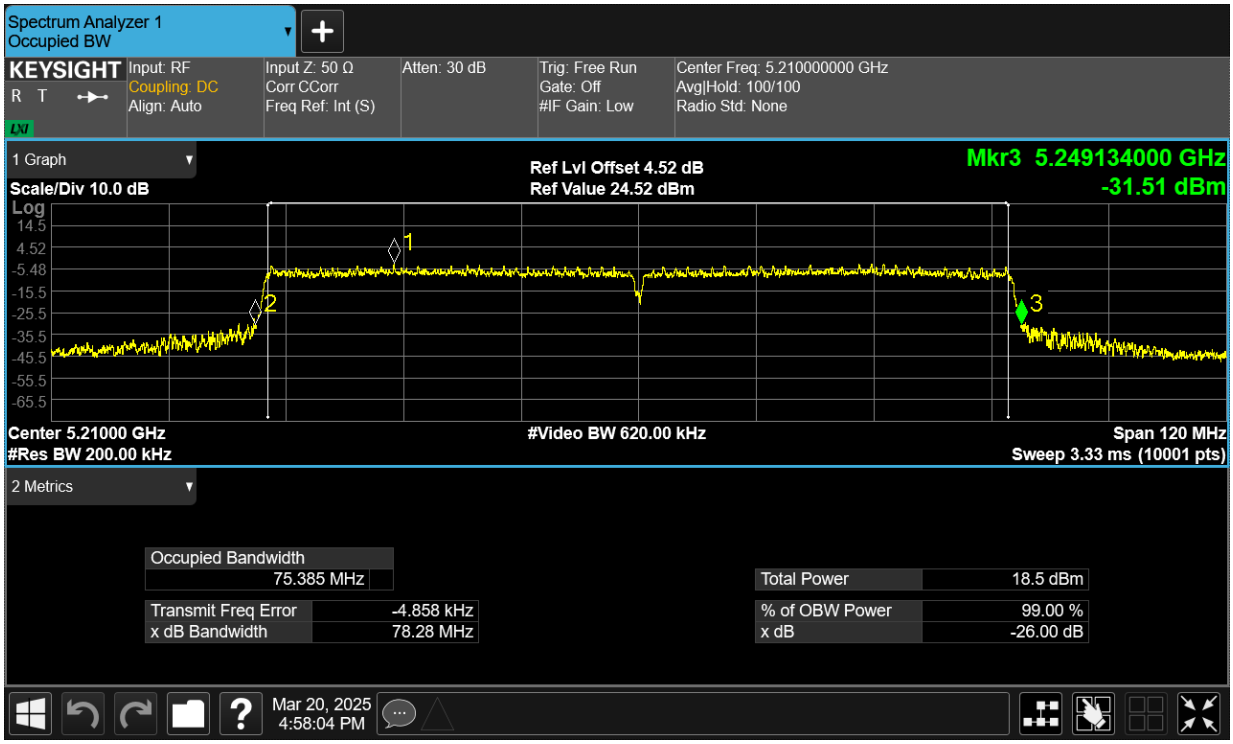
-26dB Bandwidth NVNT ac40 5190MHz Ant1



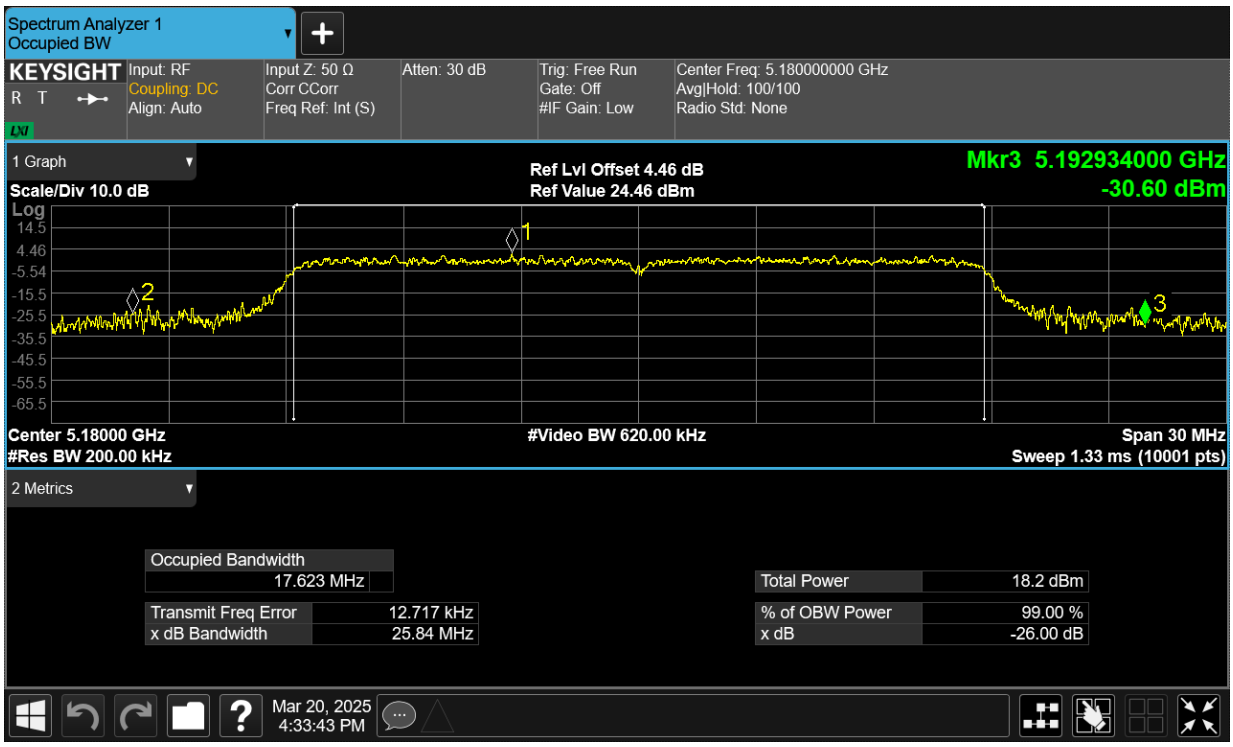
-26dB Bandwidth NVNT ac40 5230MHz Ant1



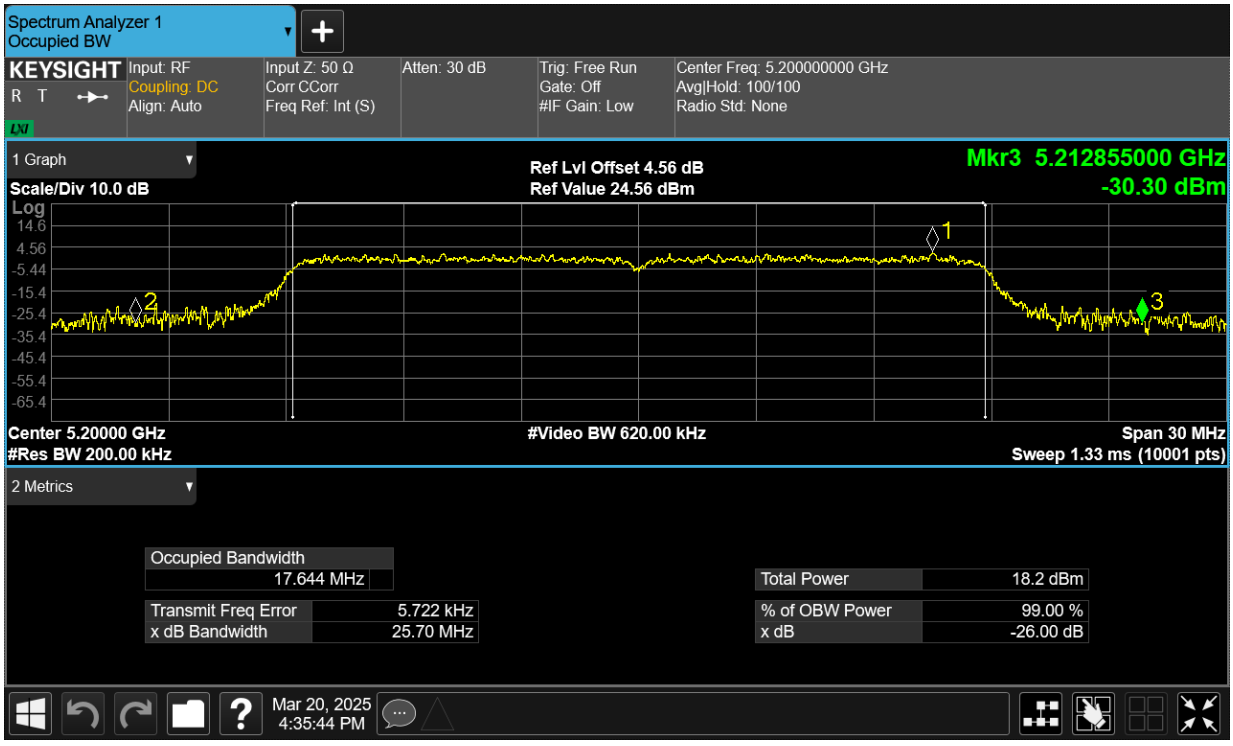
-26dB Bandwidth NVNT ac80 5210MHz Ant1



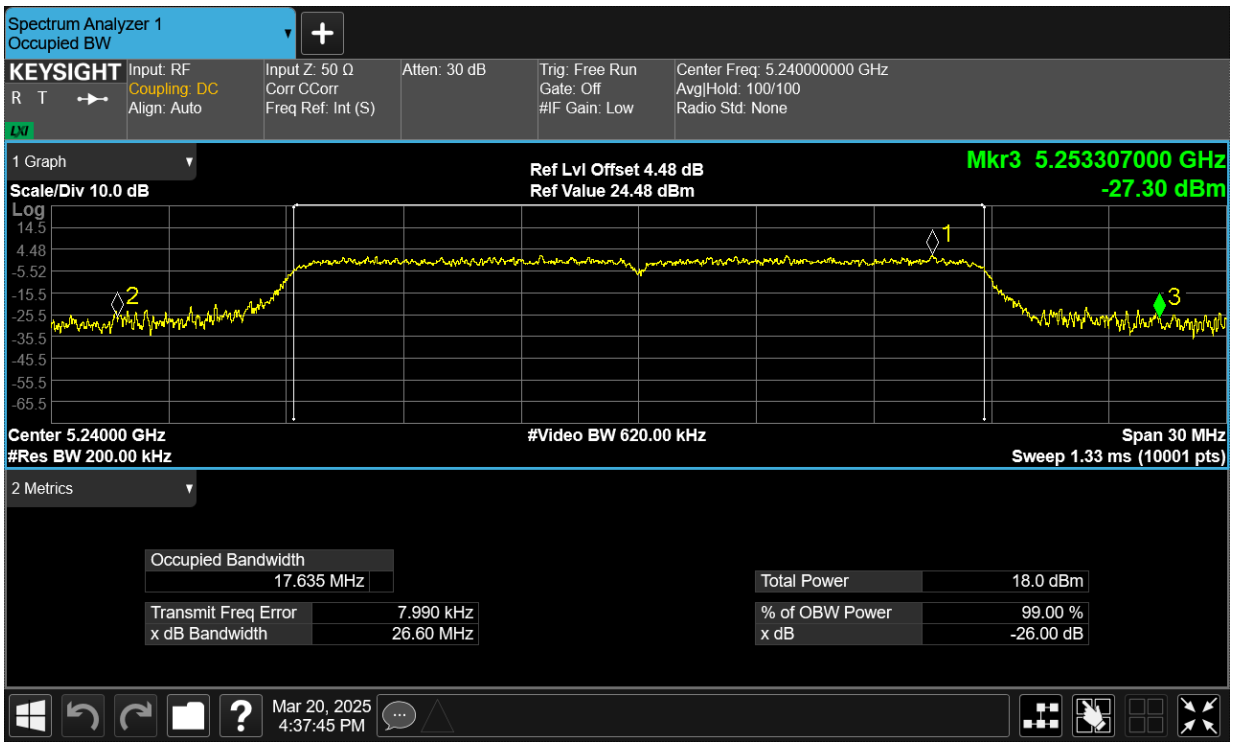
-26dB Bandwidth NVNT n20 5180MHz Ant1



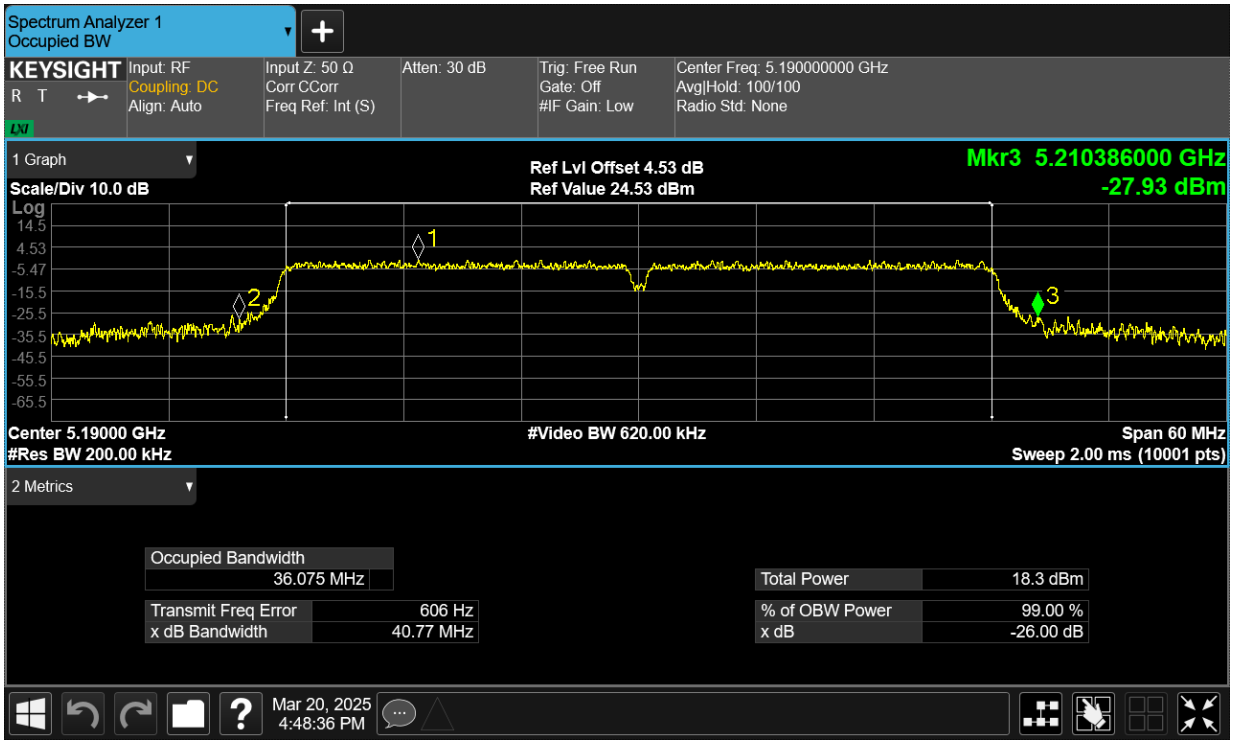
-26dB Bandwidth NVNT n20 5200MHz Ant1



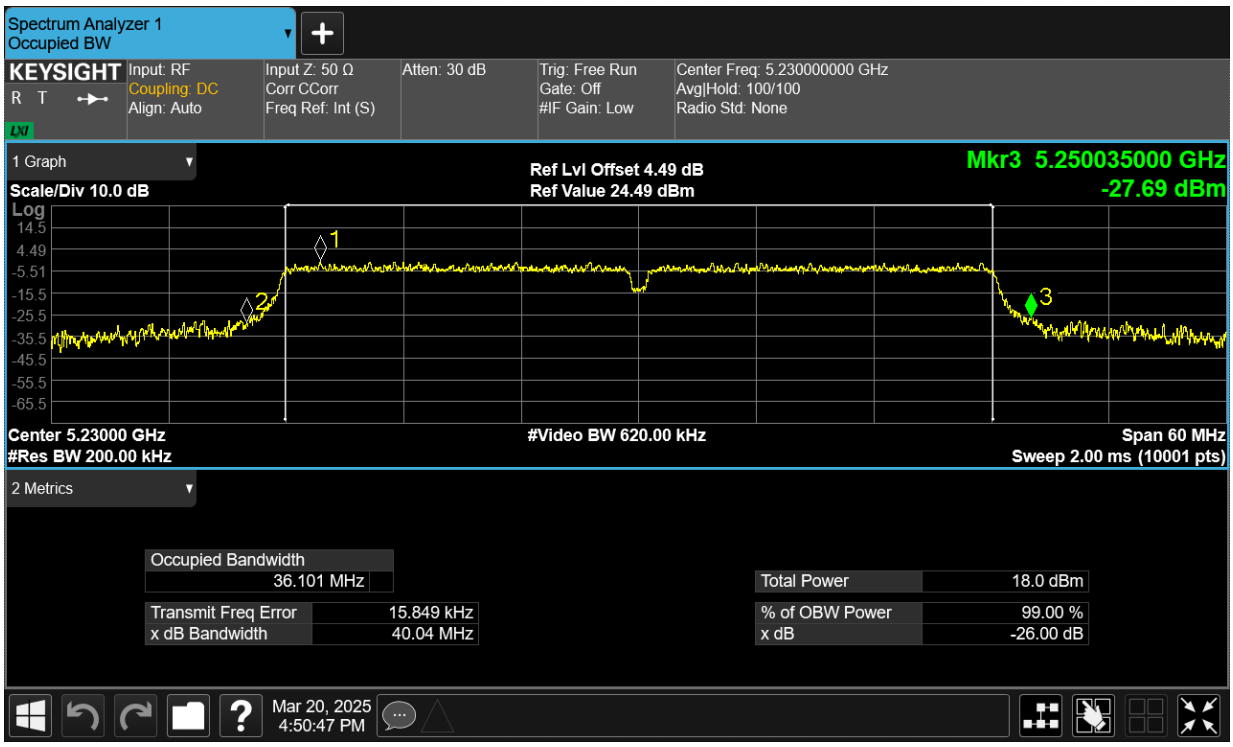
-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant1



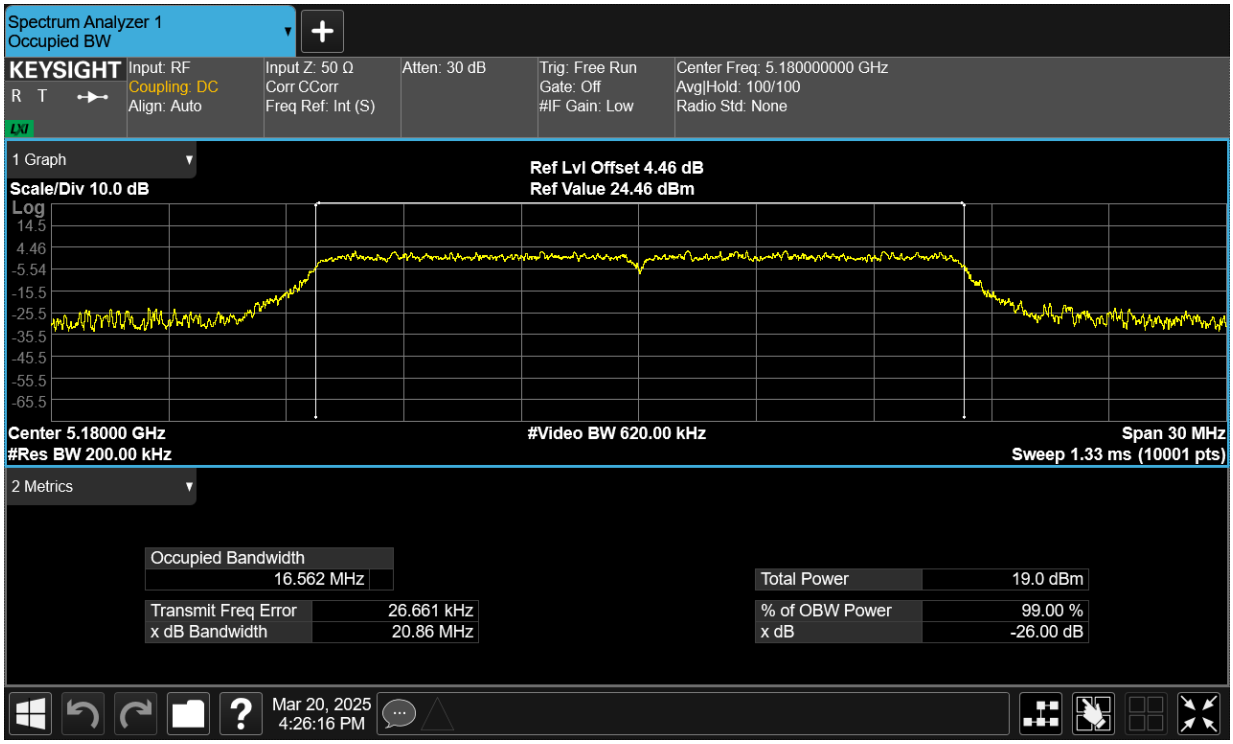
-26dB Bandwidth NVNT n40 5230MHz Ant1



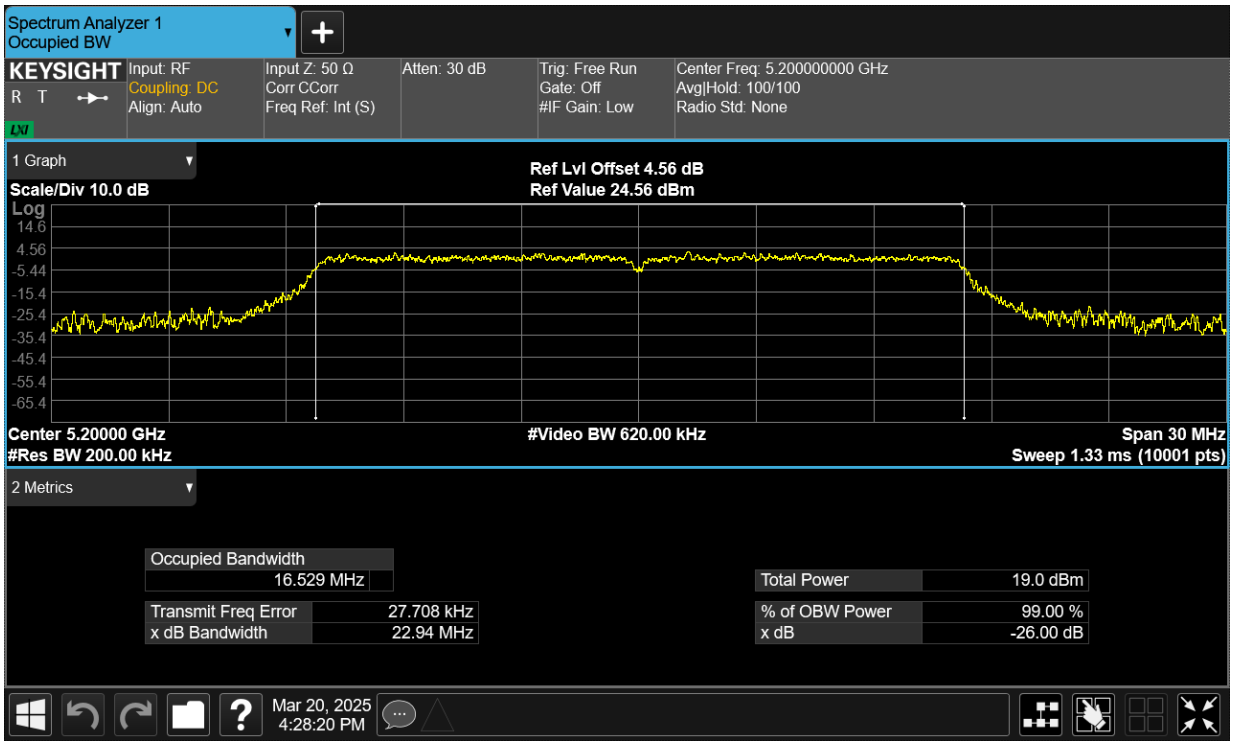
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.562
NVNT	a	5200	Ant1	16.529
NVNT	a	5240	Ant1	16.539
NVNT	ac20	5180	Ant1	17.614
NVNT	ac20	5200	Ant1	17.623
NVNT	ac20	5240	Ant1	17.637
NVNT	ac40	5190	Ant1	36.267
NVNT	ac40	5230	Ant1	36.263
NVNT	ac80	5210	Ant1	75.545
NVNT	n20	5180	Ant1	17.634
NVNT	n20	5200	Ant1	17.624
NVNT	n20	5240	Ant1	17.624
NVNT	n40	5190	Ant1	36.224
NVNT	n40	5230	Ant1	36.227

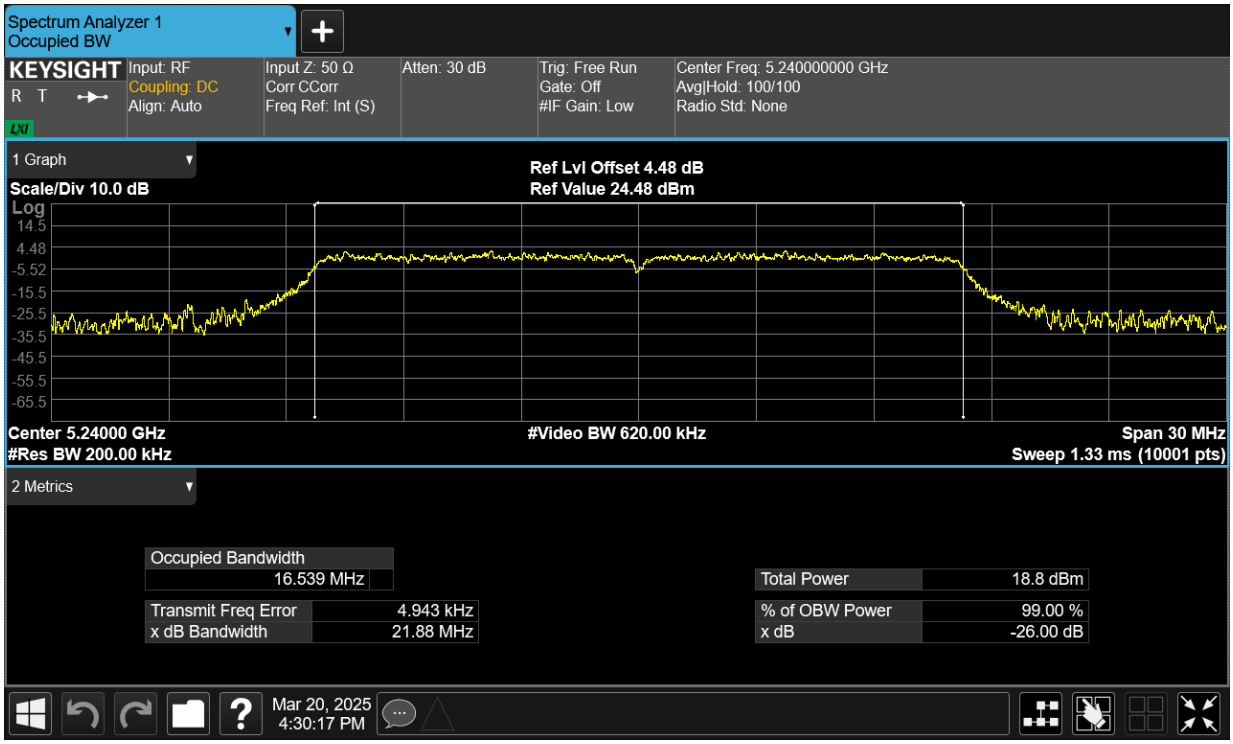
Test Graphs
OBW NVNT a 5180MHz Ant1



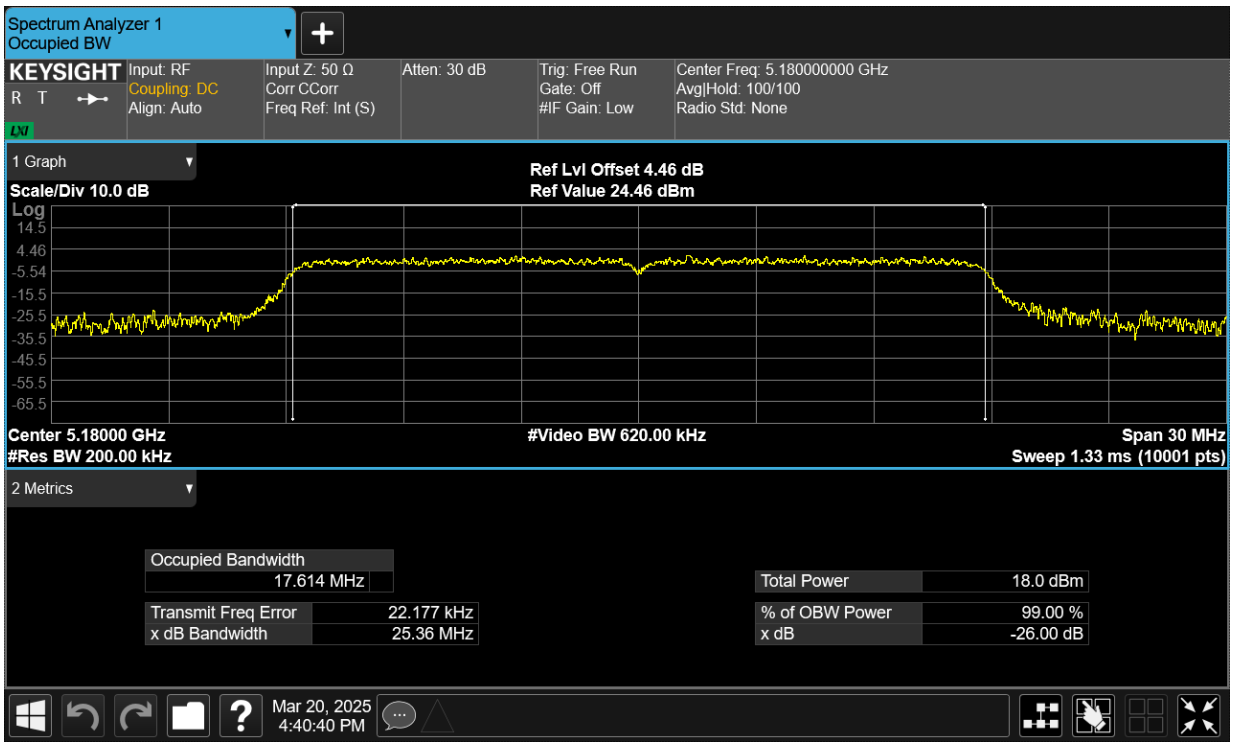
OBW NVNT a 5200MHz Ant1



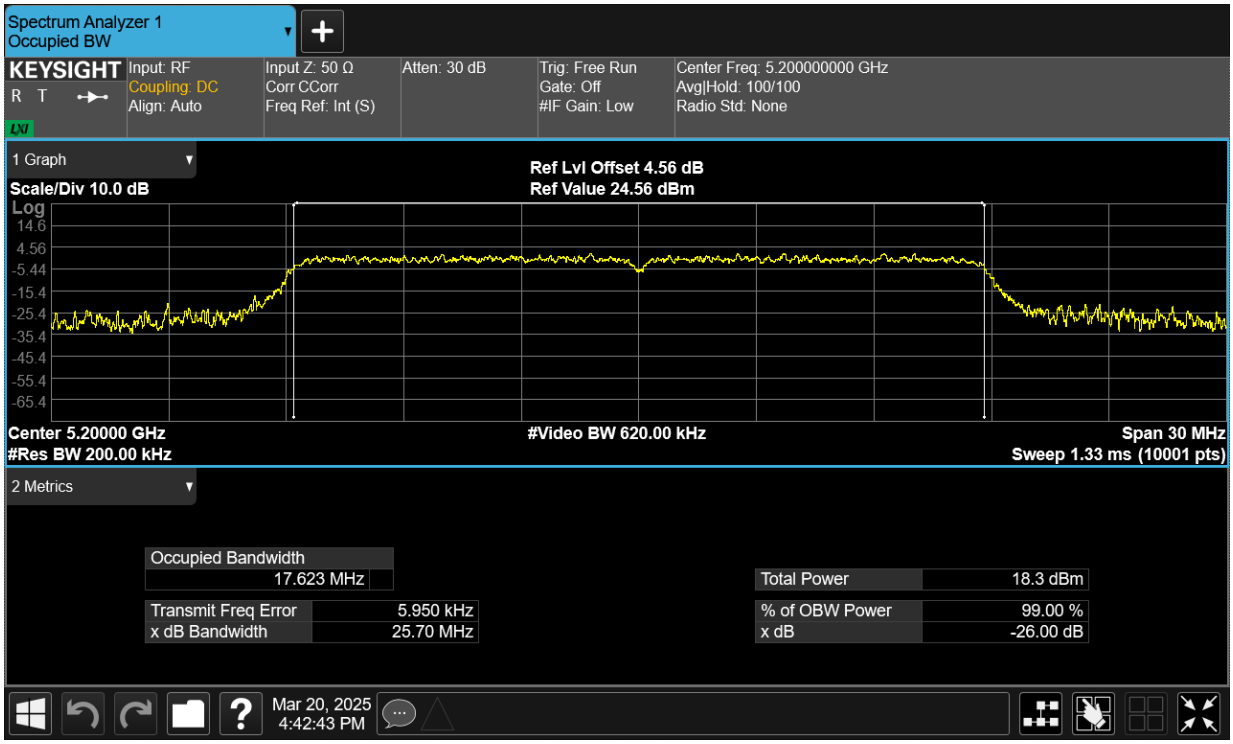
OBW NVNT a 5240MHz Ant1



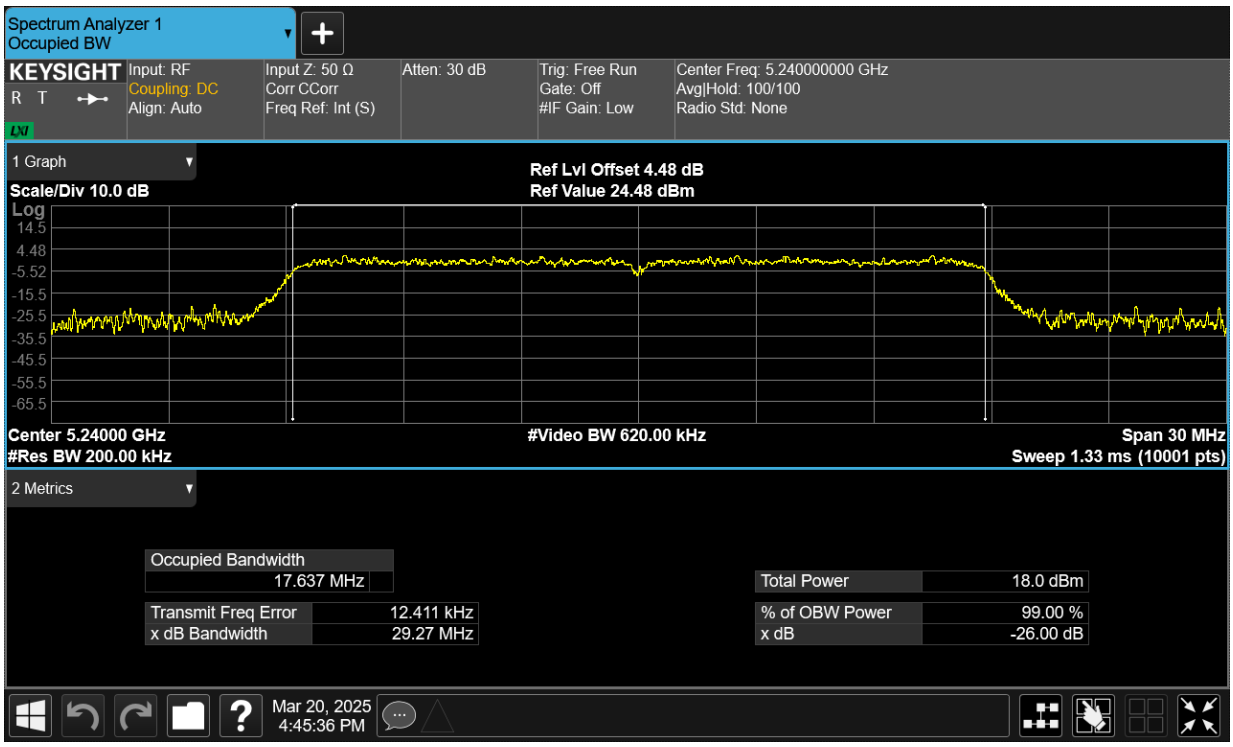
OBW NVNT ac20 5180MHz Ant1



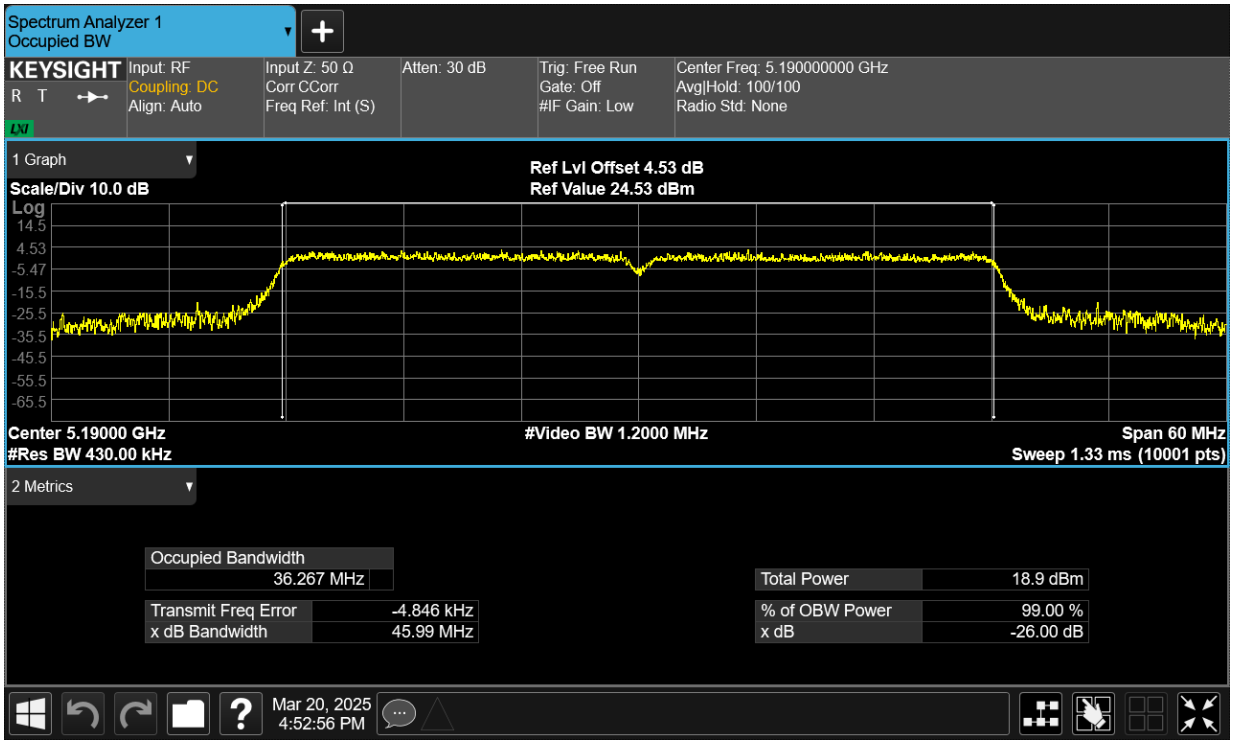
OBW NVNT ac20 5200MHz Ant1



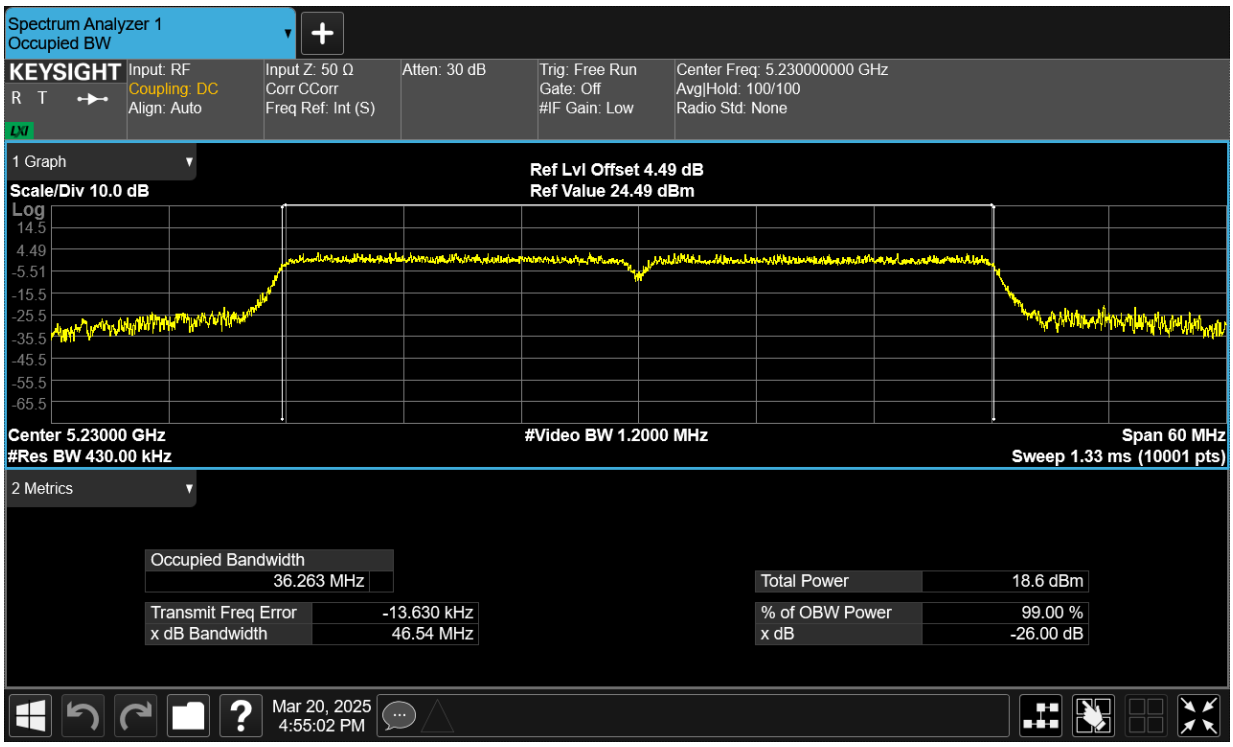
OBW NVNT ac20 5240MHz Ant1



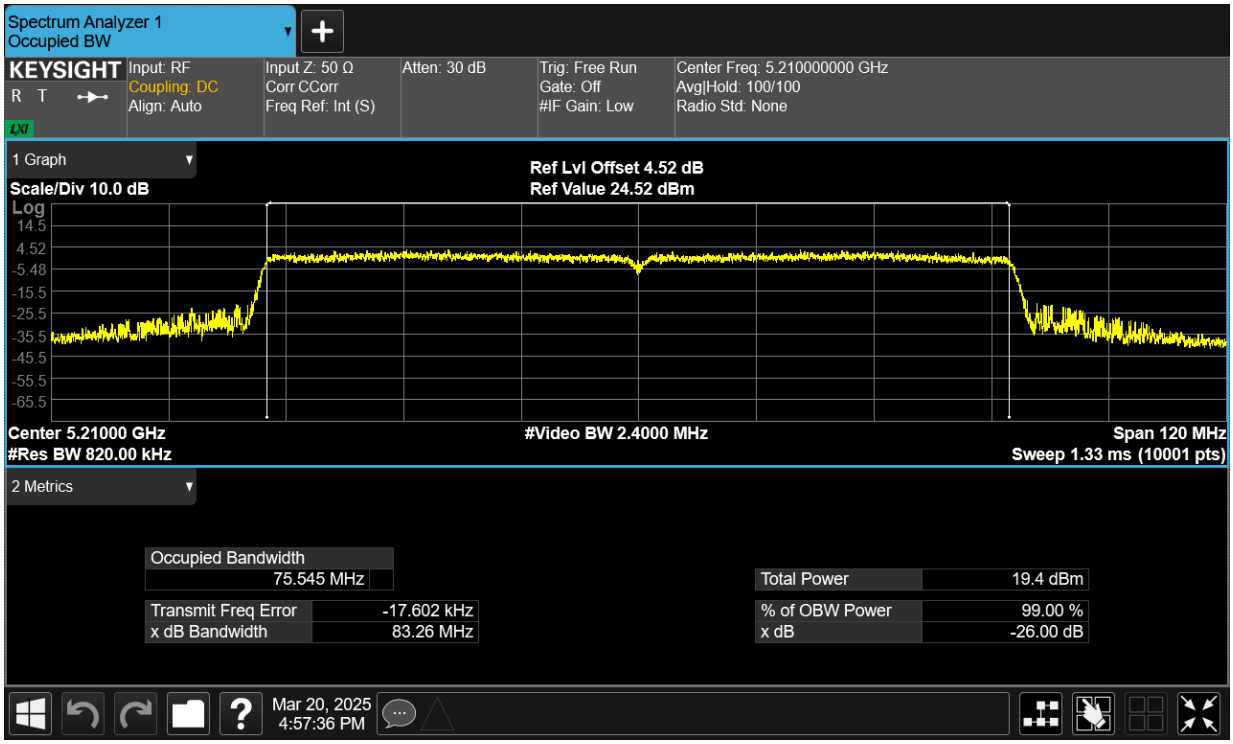
OBW NVNT ac40 5190MHz Ant1



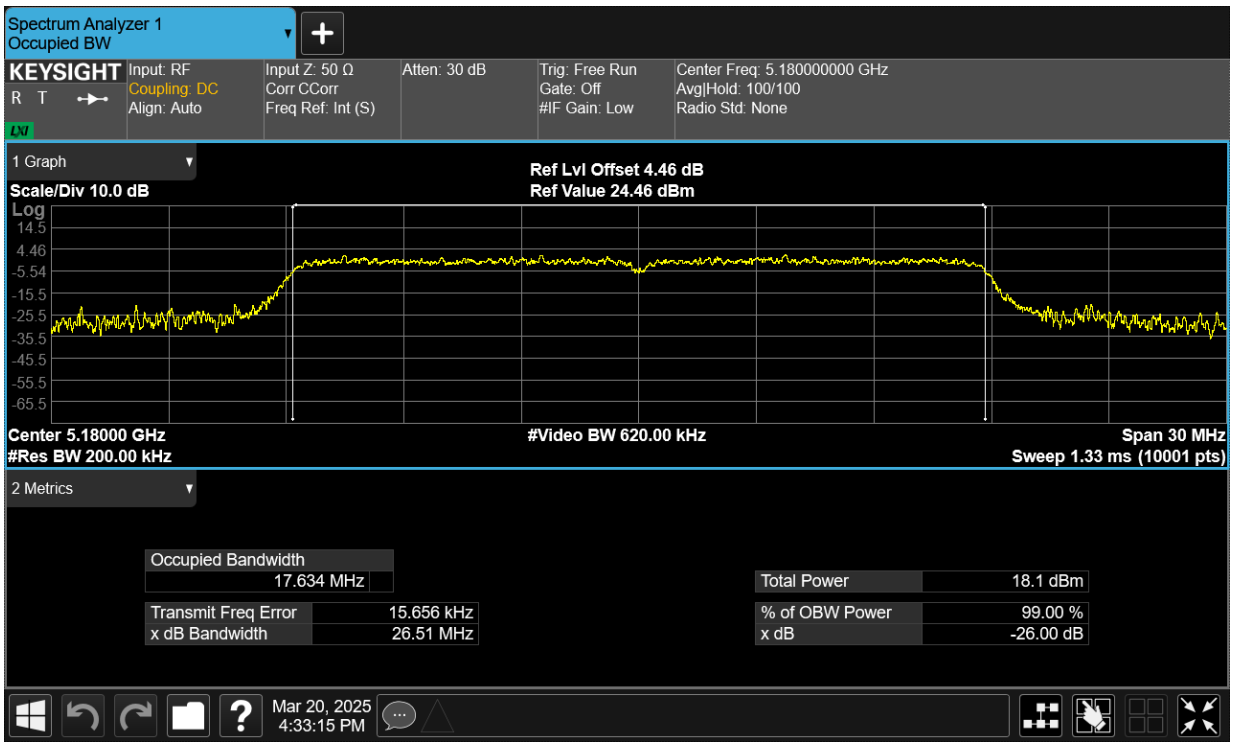
OBW NVNT ac40 5230MHz Ant1



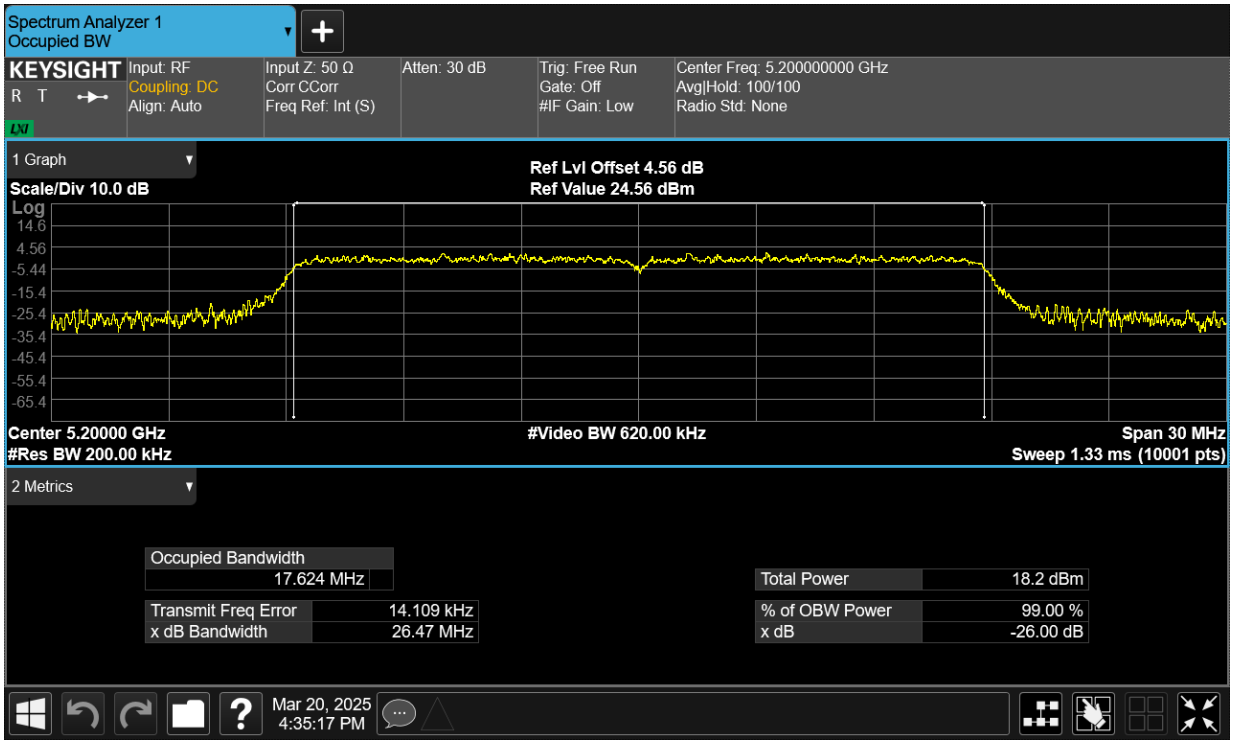
OBW NVNT ac80 5210MHz Ant1



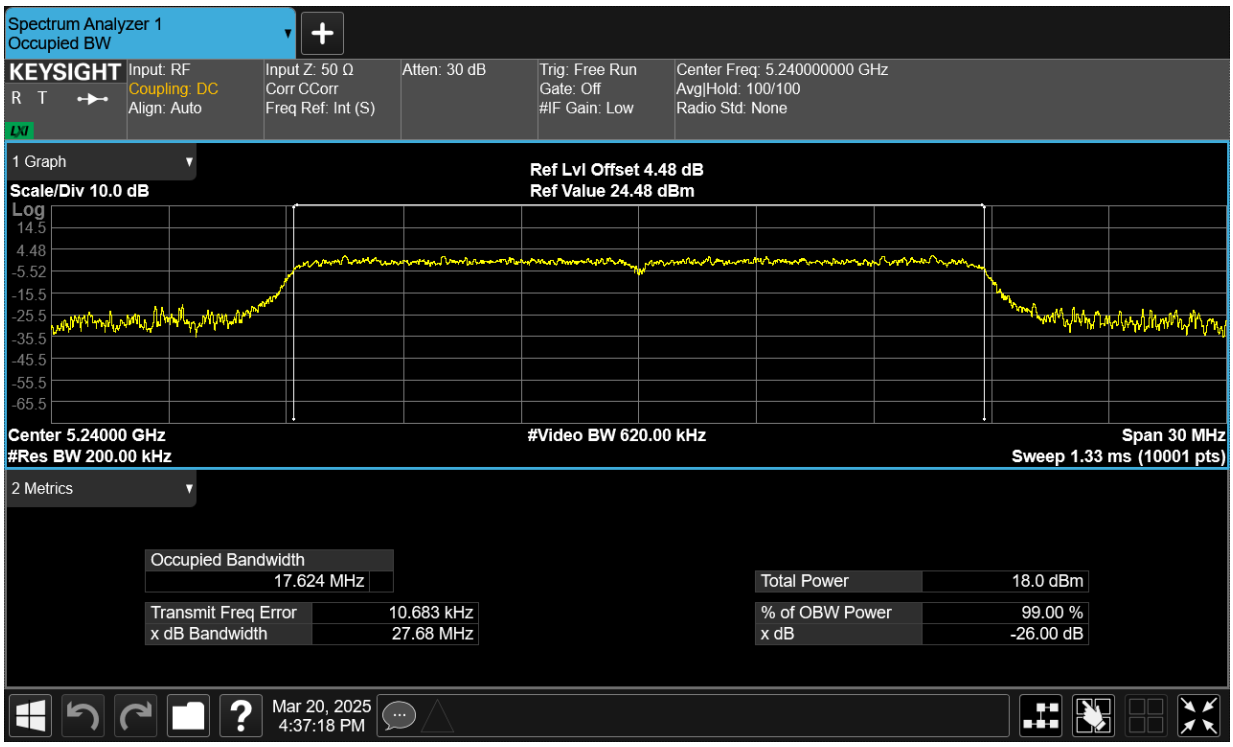
OBW NVNT n20 5180MHz Ant1



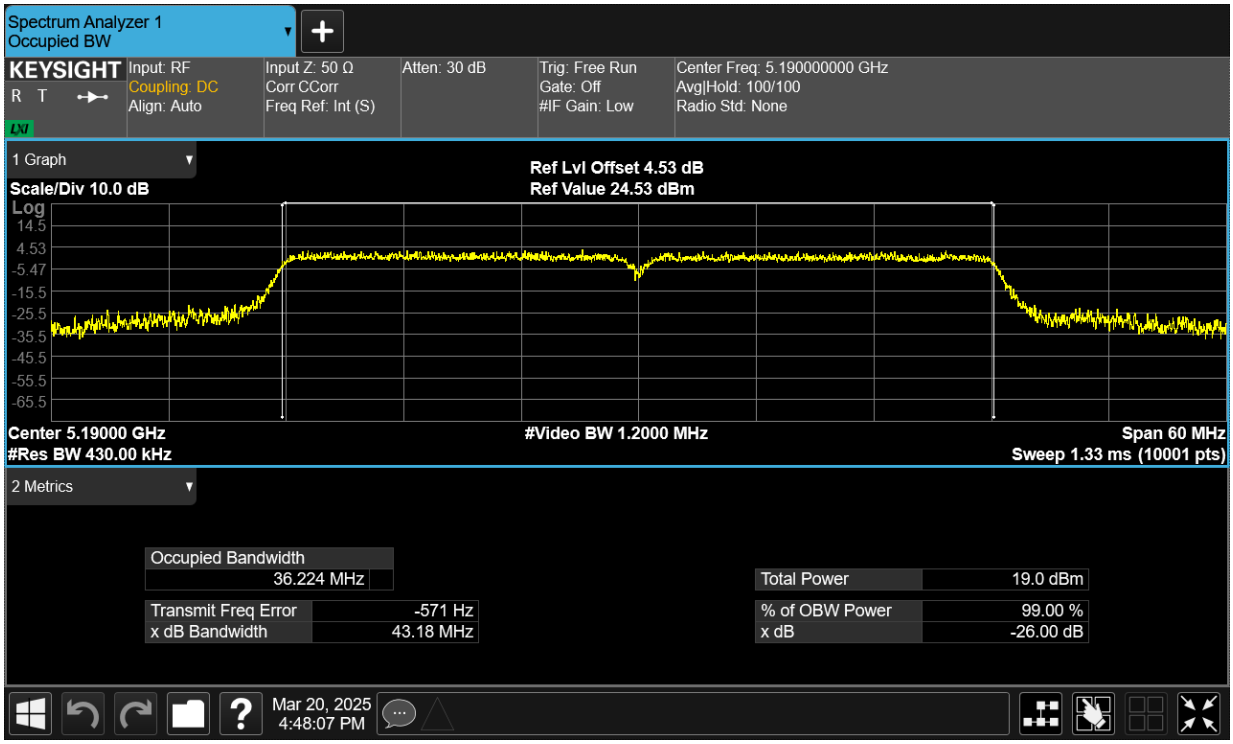
OBW NVNT n20 5200MHz Ant1



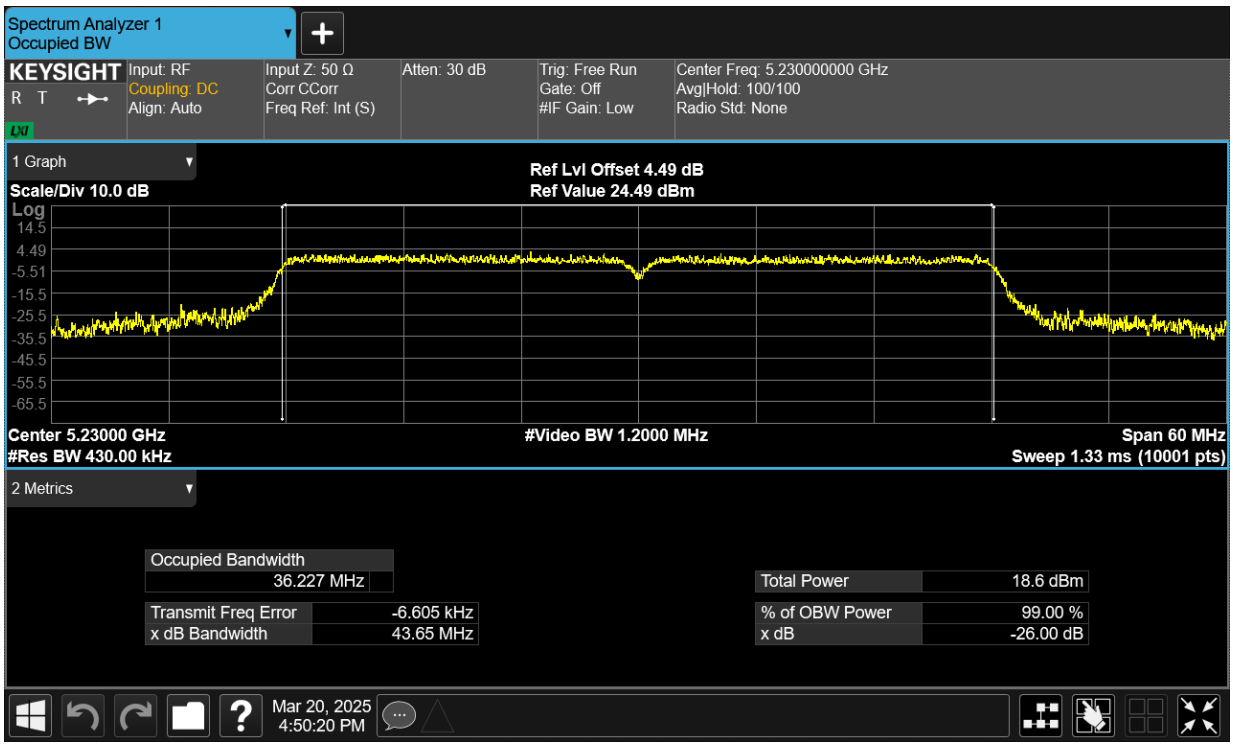
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



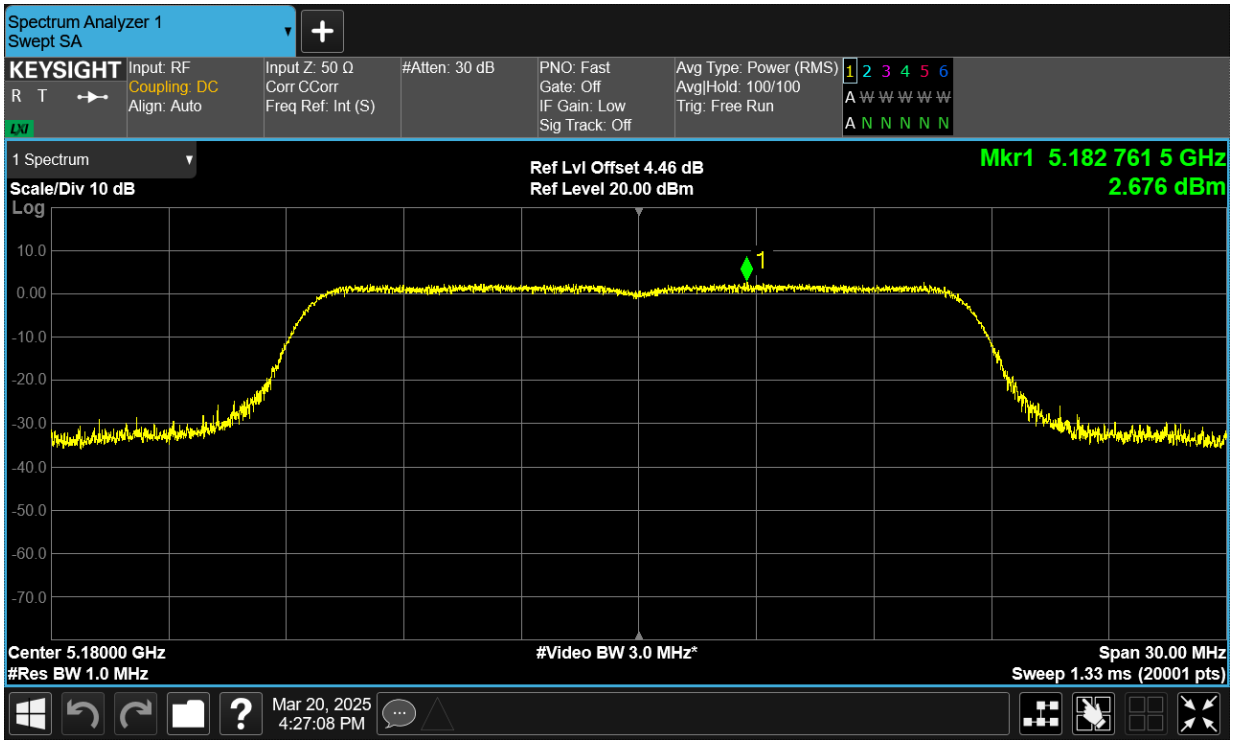
OBW NVNT n40 5230MHz Ant1



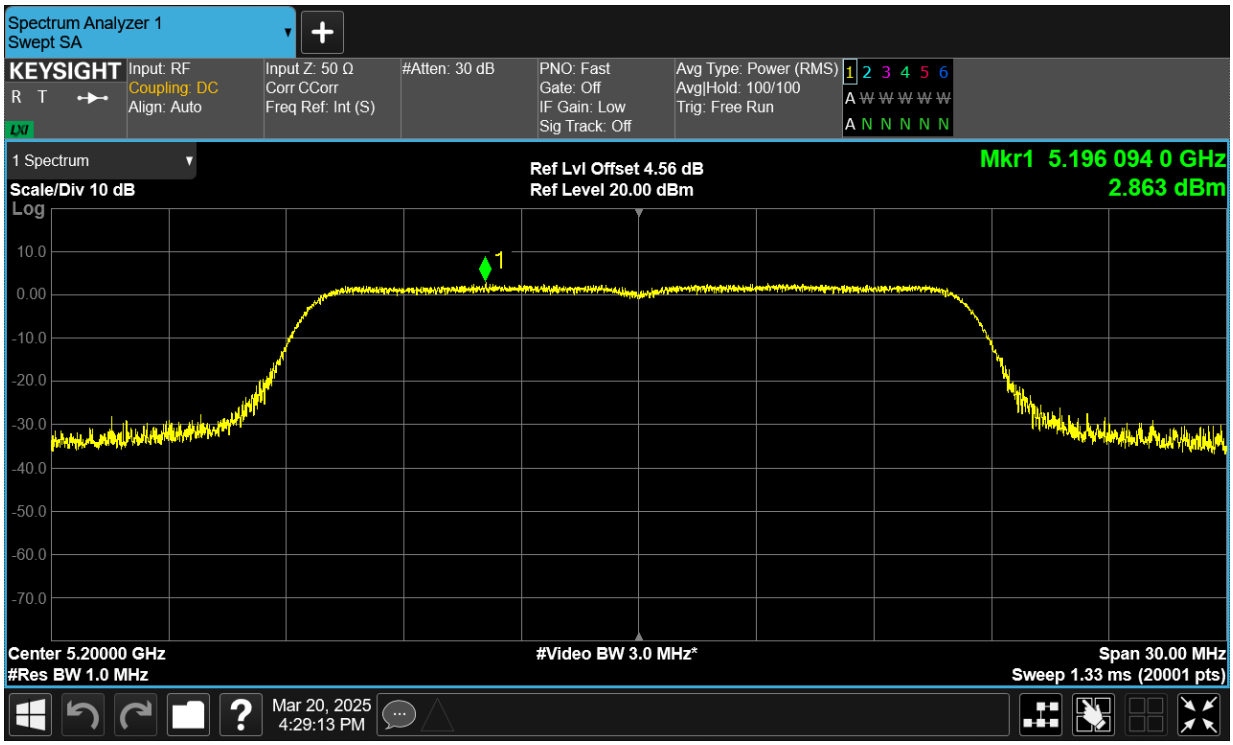
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	2.676	11	Pass
NVNT	a	5200	Ant1	2.863	11	Pass
NVNT	a	5240	Ant1	2.445	11	Pass
NVNT	ac20	5180	Ant1	1.565	11	Pass
NVNT	ac20	5200	Ant1	1.947	11	Pass
NVNT	ac20	5240	Ant1	1.538	11	Pass
NVNT	ac40	5190	Ant1	-0.621	11	Pass
NVNT	ac40	5230	Ant1	-1.051	11	Pass
NVNT	ac80	5210	Ant1	-4.426	11	Pass
NVNT	n20	5180	Ant1	1.666	11	Pass
NVNT	n20	5200	Ant1	1.753	11	Pass
NVNT	n20	5240	Ant1	1.609	11	Pass
NVNT	n40	5190	Ant1	-0.931	11	Pass
NVNT	n40	5230	Ant1	-1.354	11	Pass

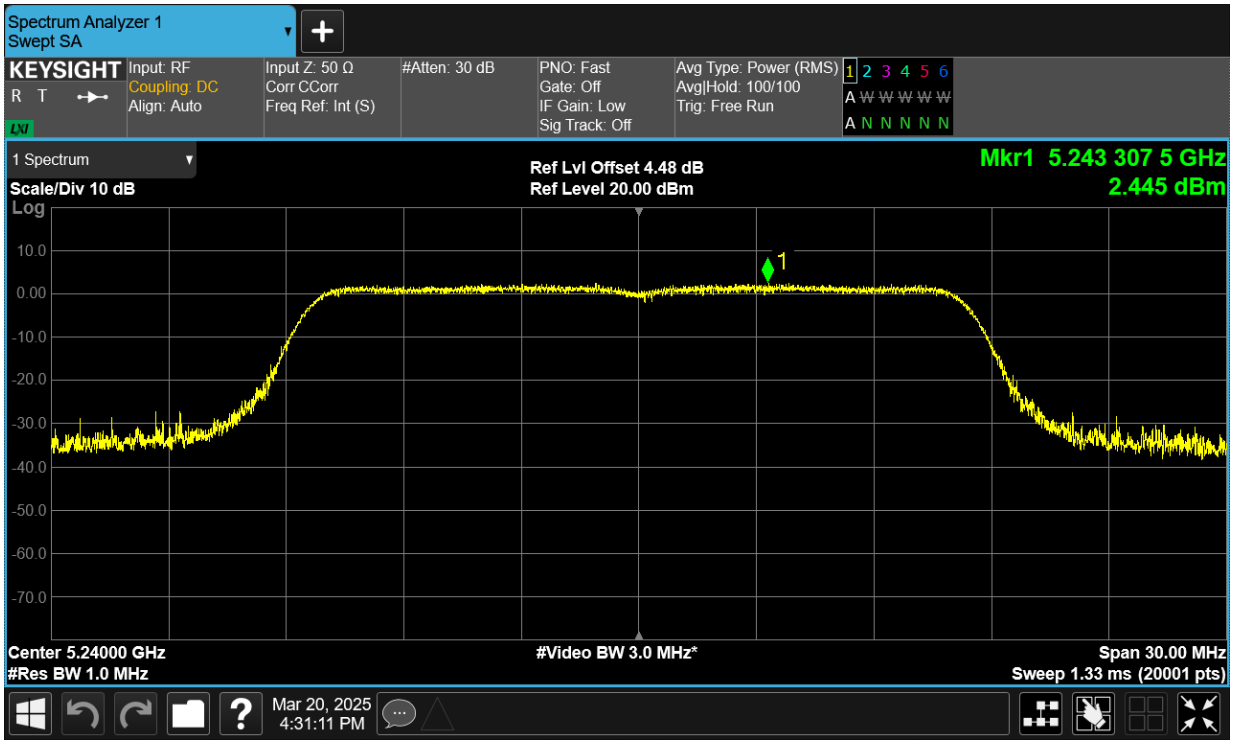
Test Graphs
PSD NVNT a 5180MHz Ant1



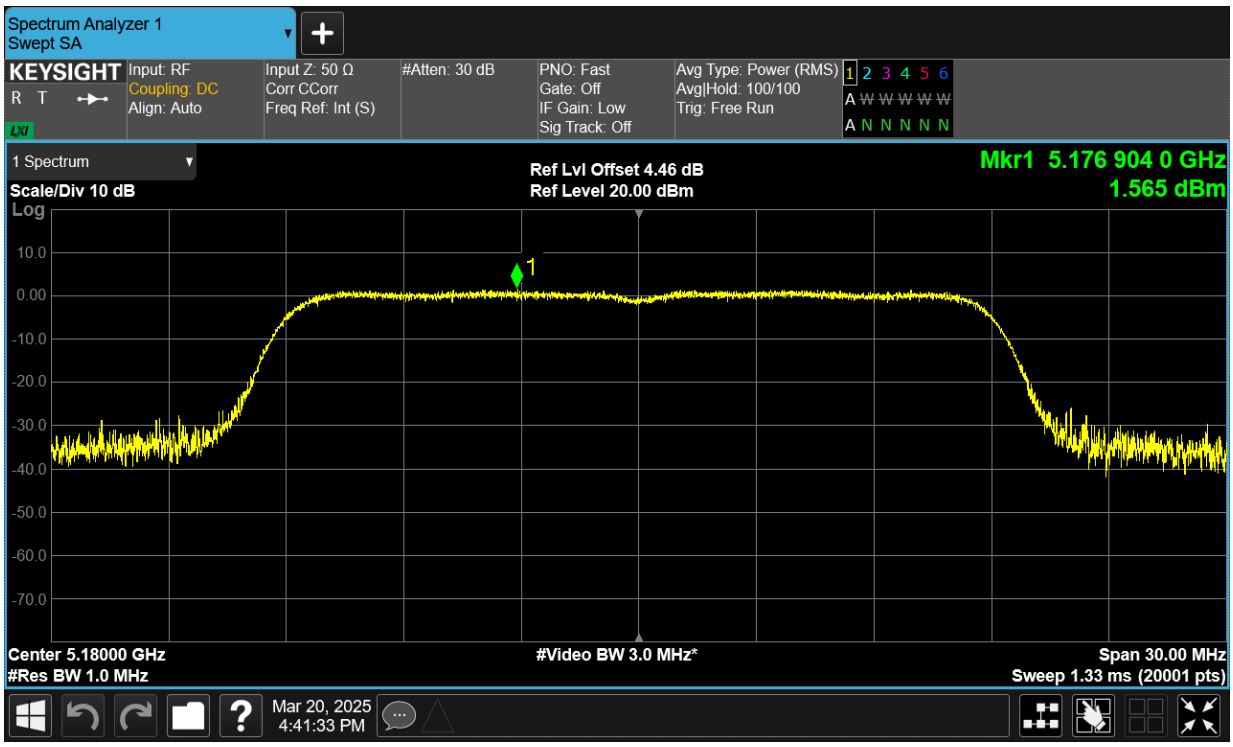
PSD NVNT a 5200MHz Ant1



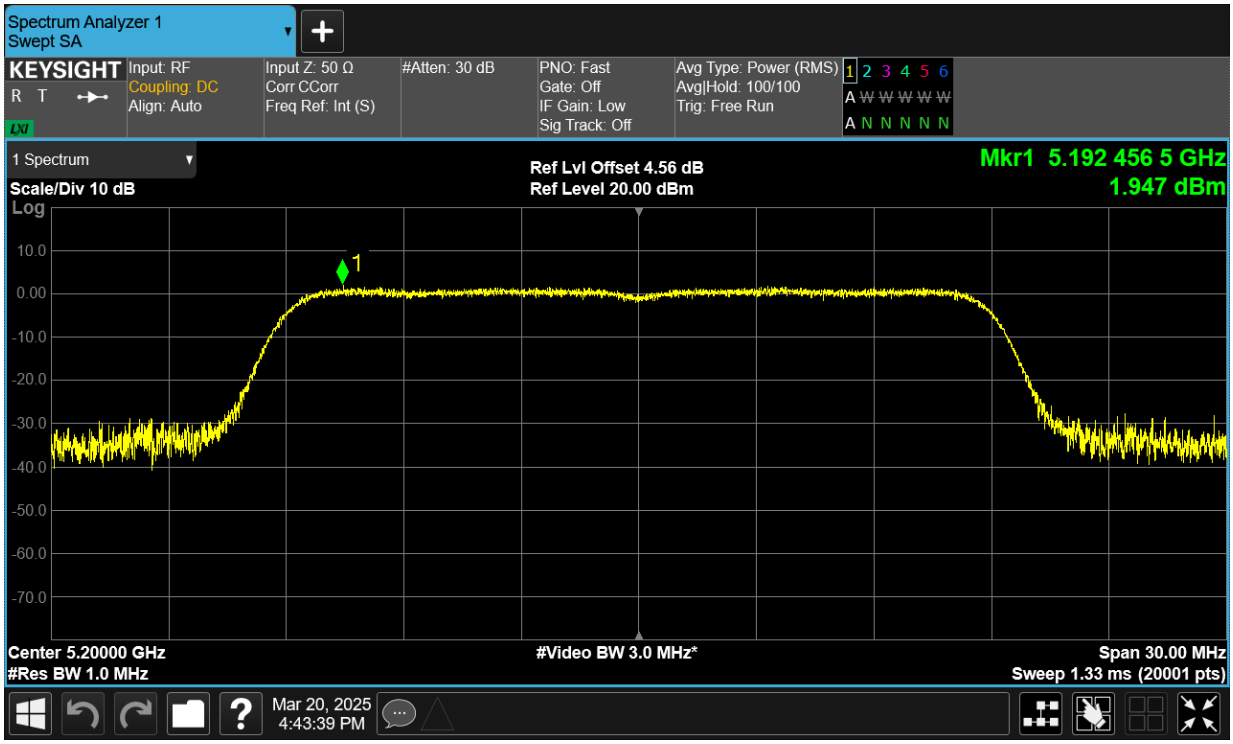
PSD NVNT a 5240MHz Ant1



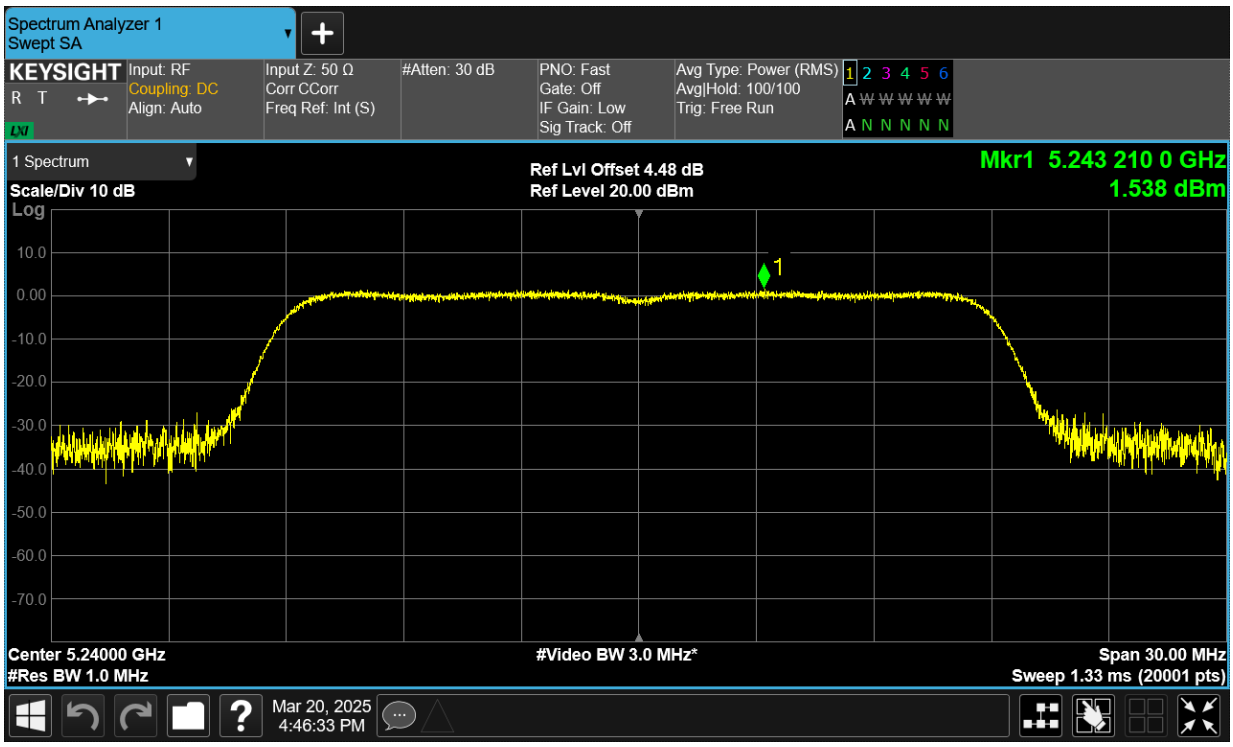
PSD NVNT ac20 5180MHz Ant1



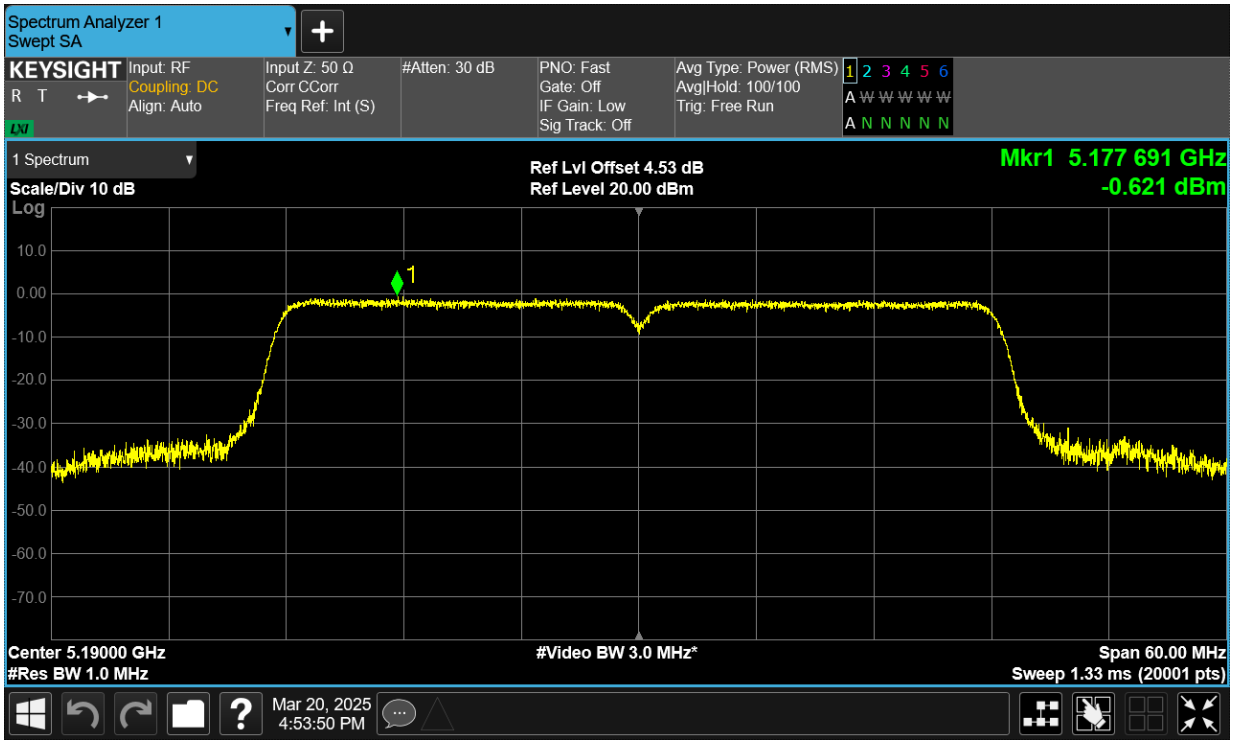
PSD NVNT ac20 5200MHz Ant1



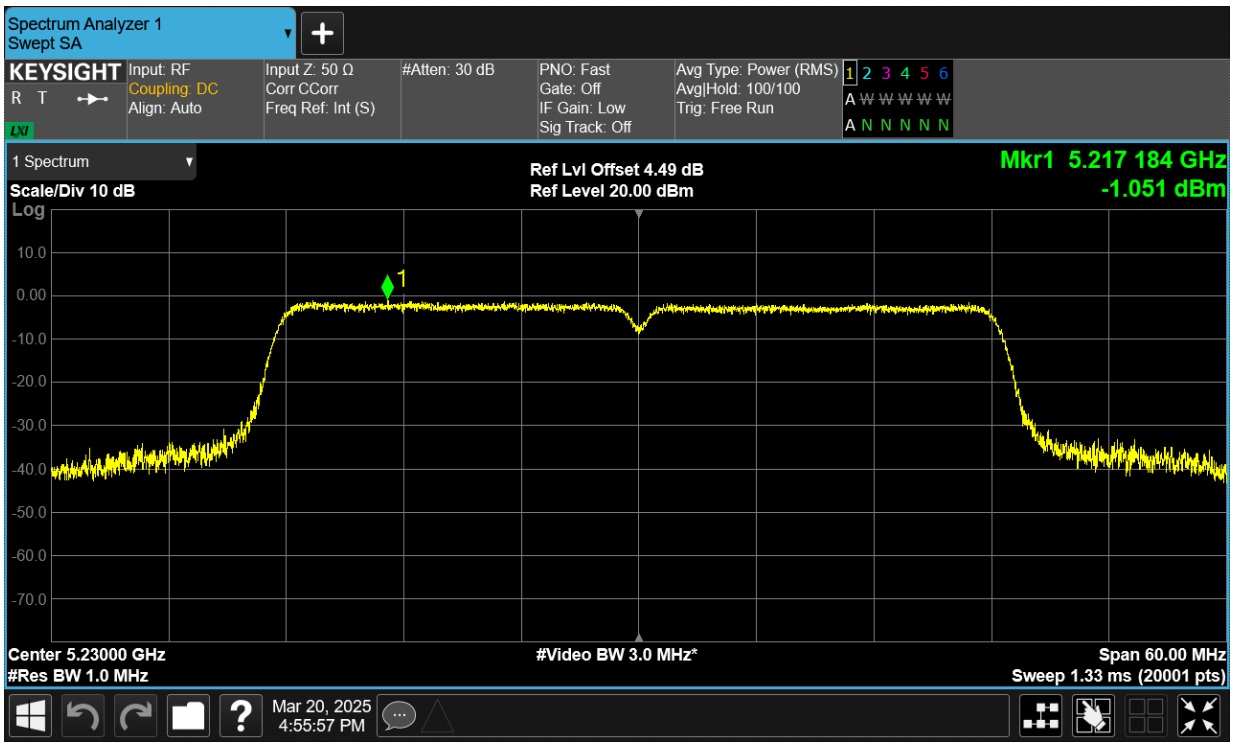
PSD NVNT ac20 5240MHz Ant1



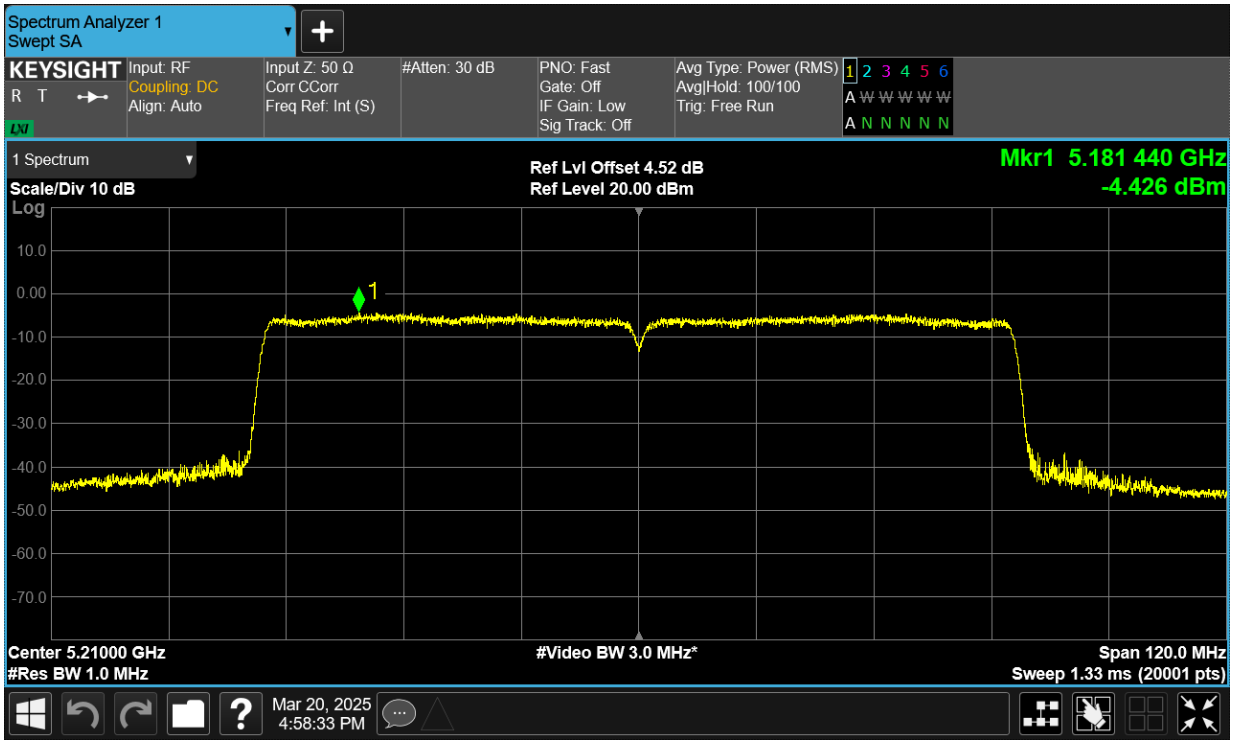
PSD NVNT ac40 5190MHz Ant1



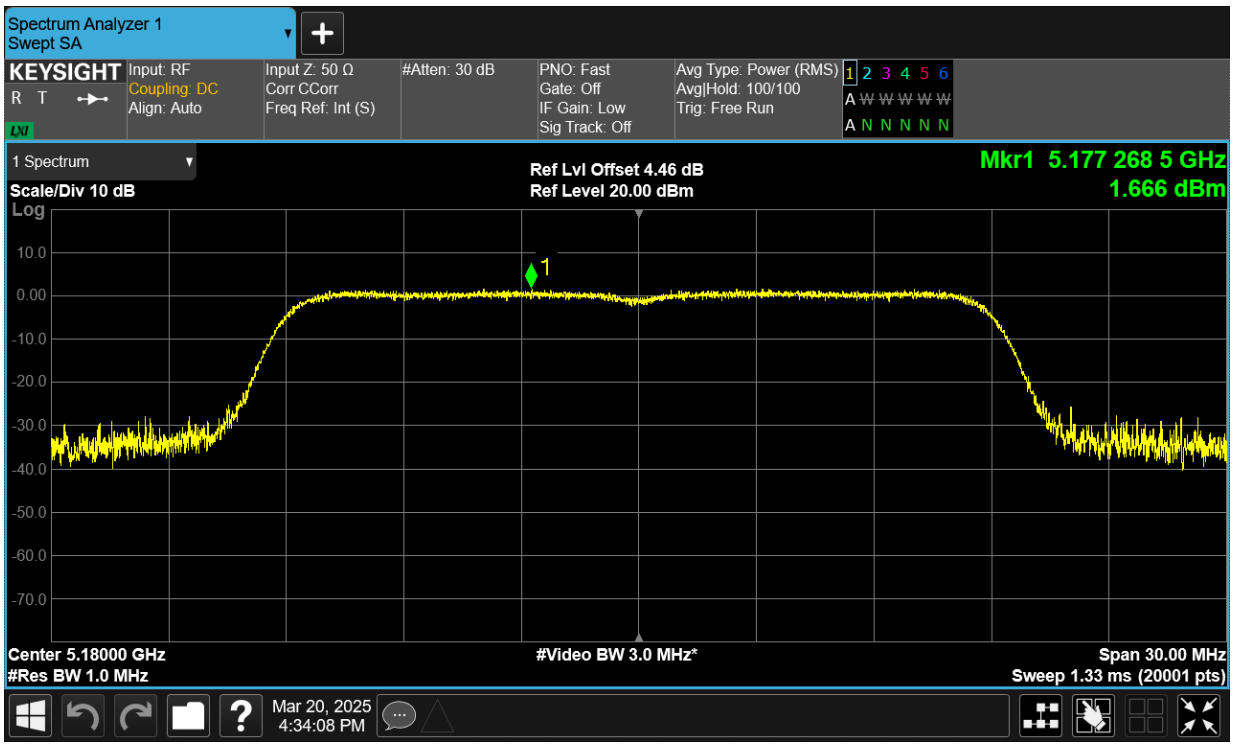
PSD NVNT ac40 5230MHz Ant1



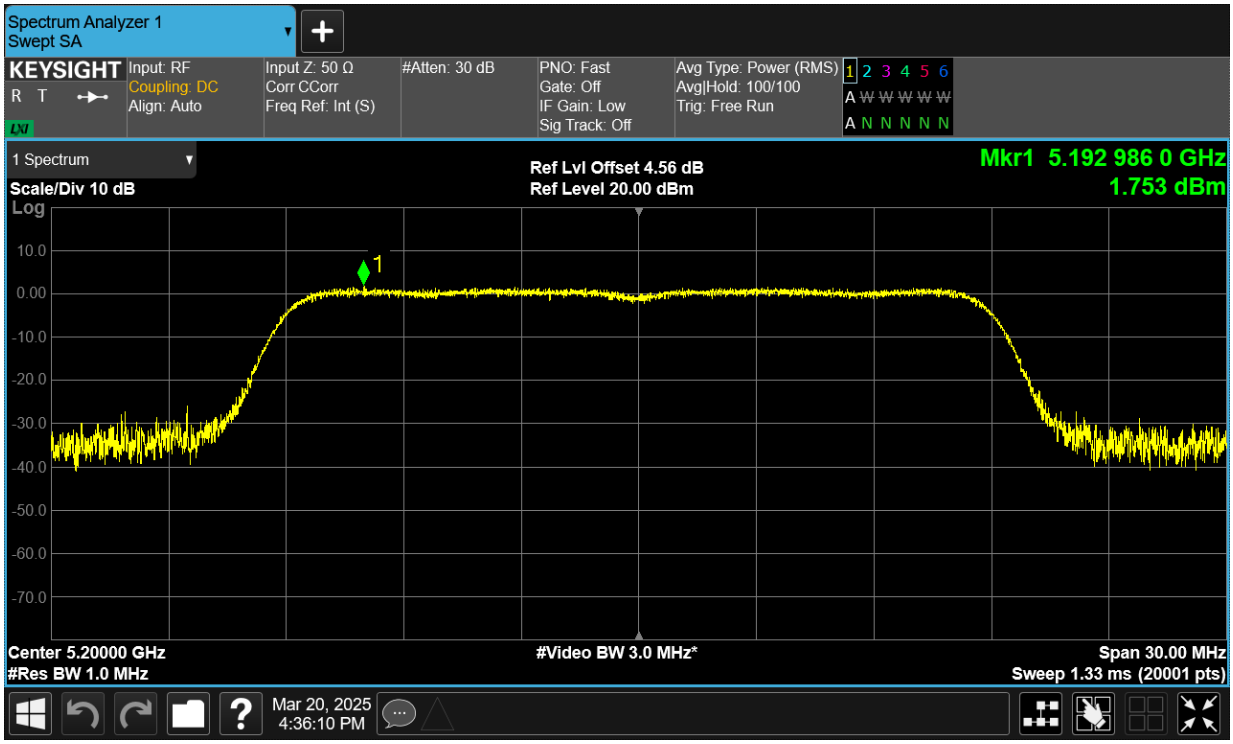
PSD NVNT ac80 5210MHz Ant1



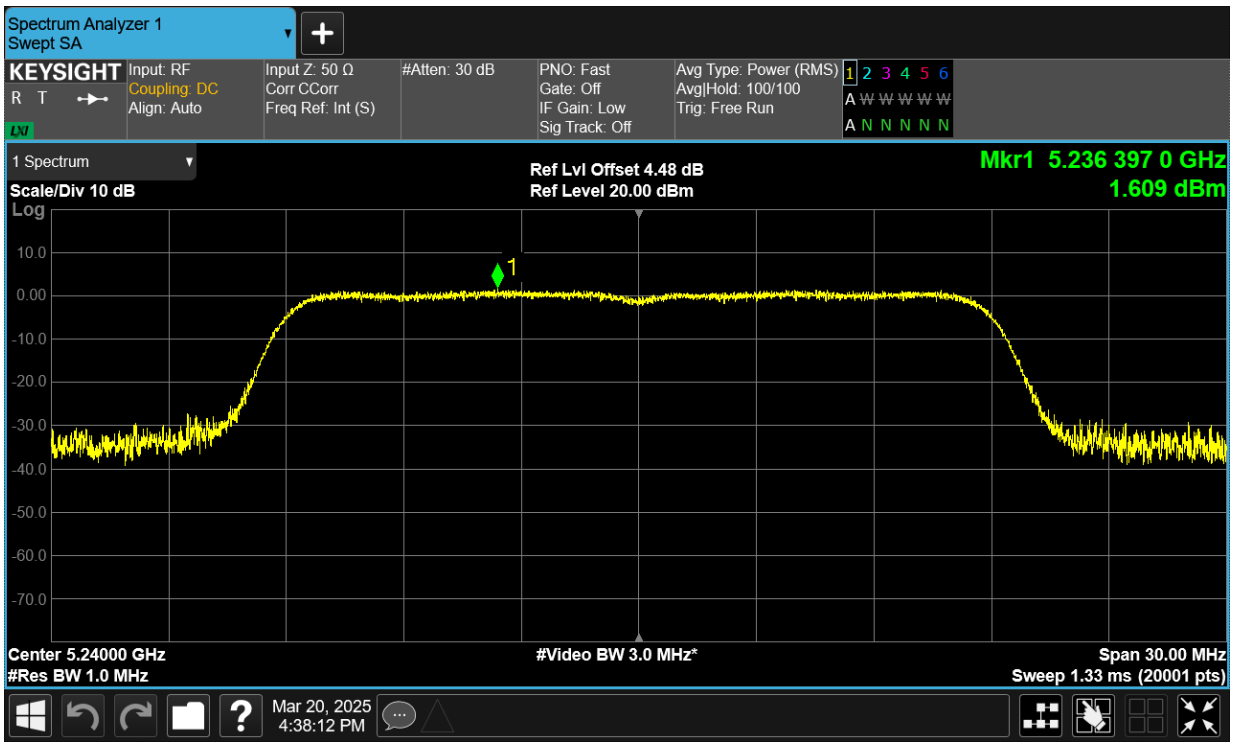
PSD NVNT n20 5180MHz Ant1



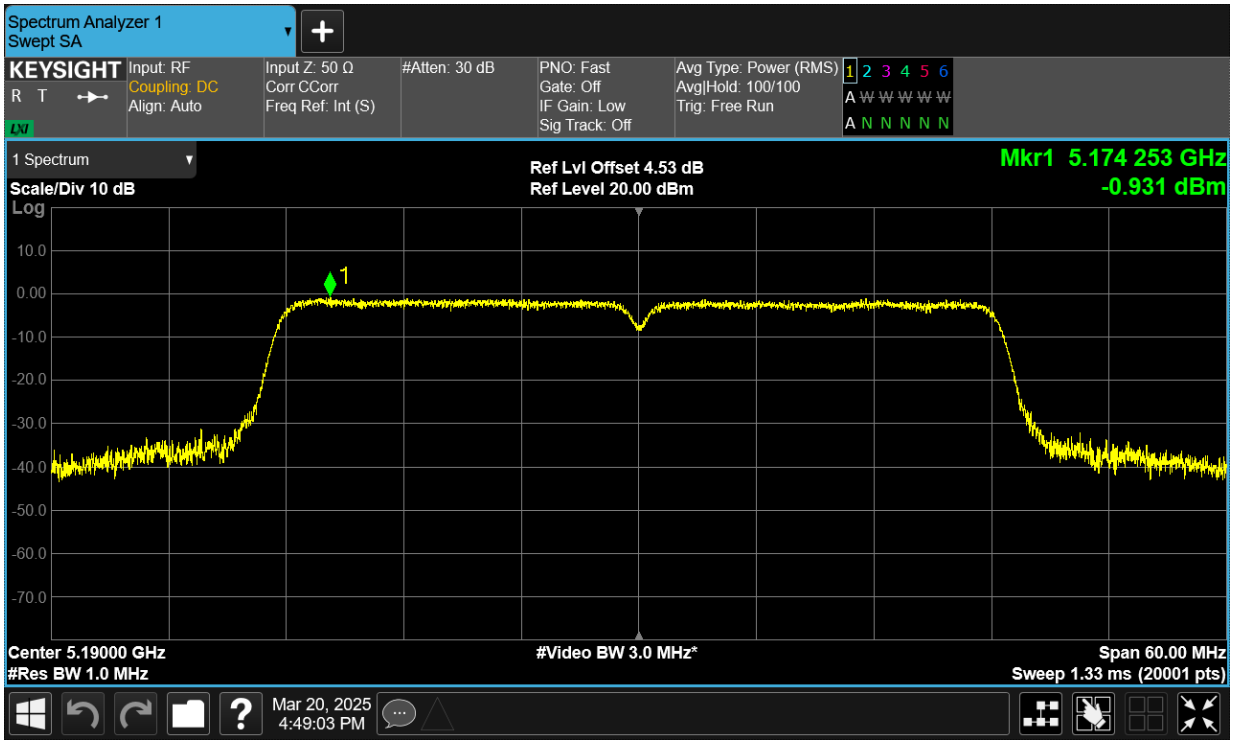
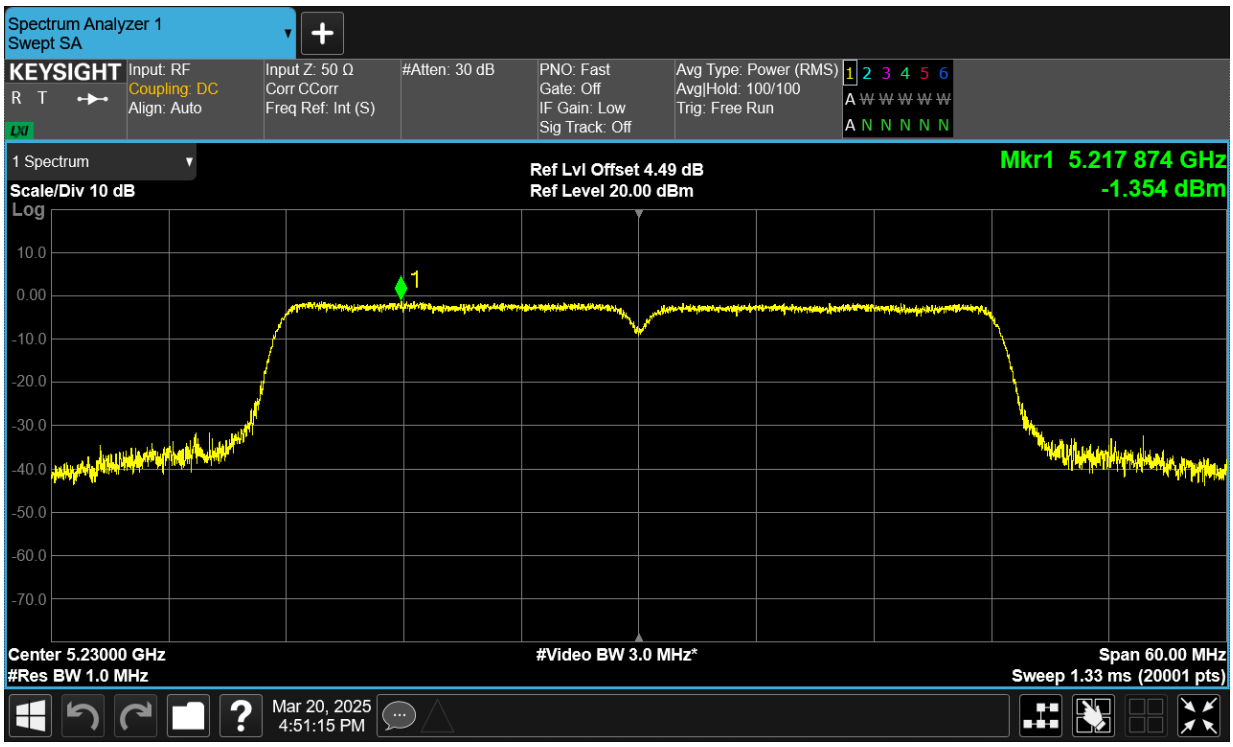
PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1