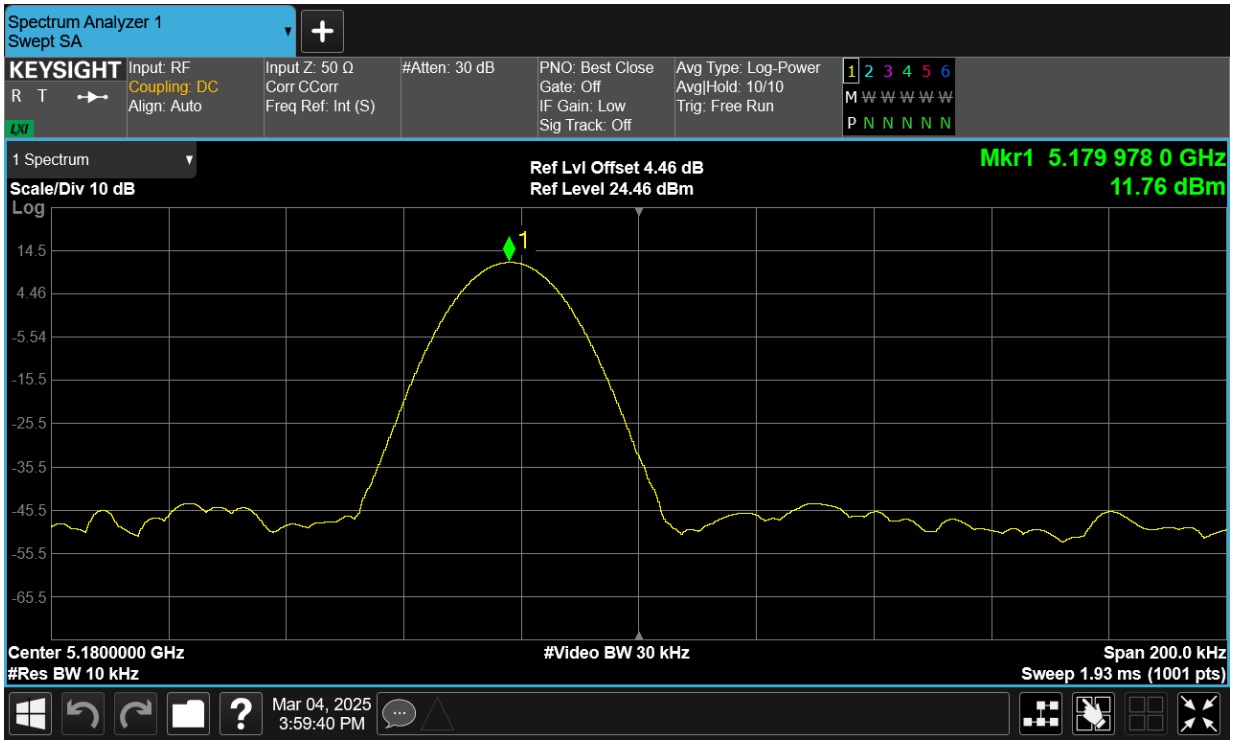
Test Data

Frequency Stability

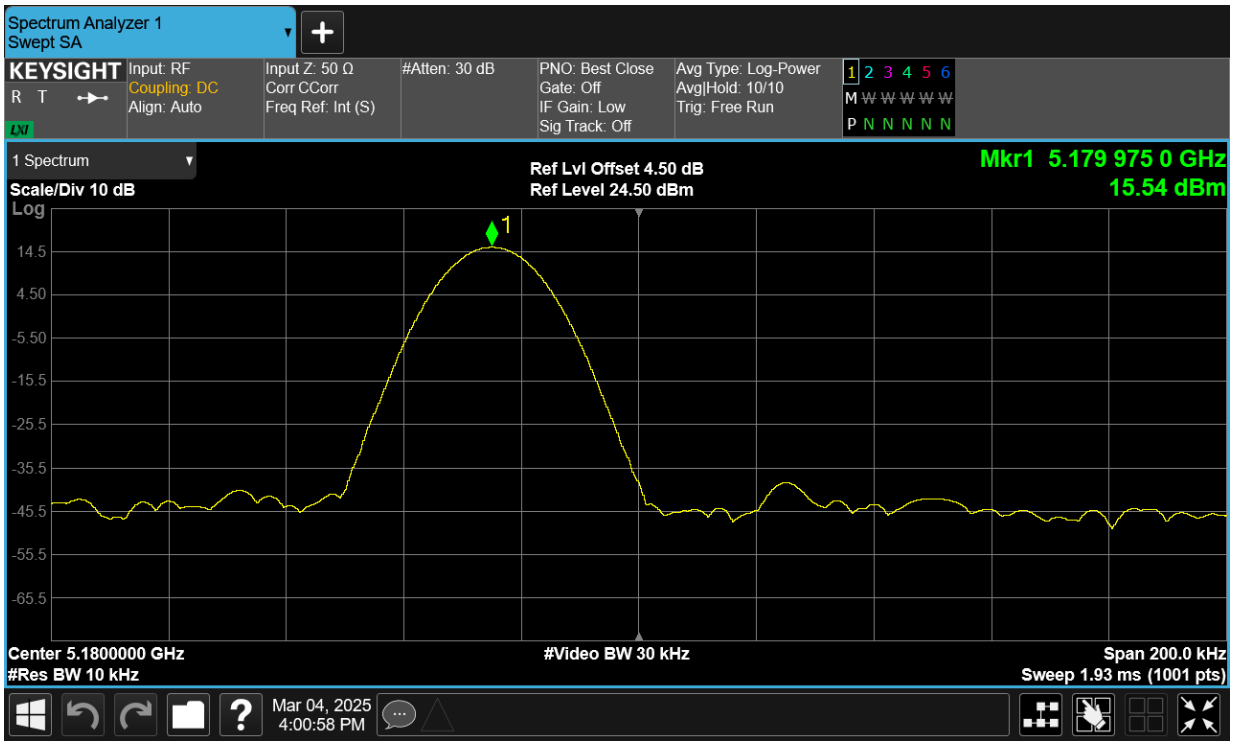
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5180	Ant1	5179.978	-4.25	25	Pass
HVNT	a	5180	Ant2	5179.975	-4.83	25	Pass
LVNT	a	5180	Ant1	5179.976	-4.63	25	Pass
LVNT	a	5180	Ant2	5179.975	-4.83	25	Pass
NVHT	a	5180	Ant1	5179.9798	-3.9	25	Pass
NVHT	a	5180	Ant2	5179.975	-4.83	25	Pass
NVLT	a	5180	Ant1	5179.9812	-3.63	25	Pass
NVLT	a	5180	Ant2	5179.975	-4.83	25	Pass
NVNT	a	5180	Ant1	5179.983	-3.28	25	Pass
NVNT	a	5180	Ant2	5179.975	-4.83	25	Pass
HVNT	ac20	5180	Sum	5179.9764	-4.56	25	Pass
LVNT	ac20	5180	Sum	5179.9764	-4.56	25	Pass
NVHT	ac20	5180	Sum	5179.9762	-4.59	25	Pass
NVLT	ac20	5180	Sum	5179.976	-4.63	25	Pass
NVNT	ac20	5180	Sum	5179.976	-4.63	25	Pass
HVNT	ac40	5190	Sum	5189.9772	-4.39	25	Pass
LVNT	ac40	5190	Sum	5189.9772	-4.39	25	Pass
NVHT	ac40	5190	Sum	5189.977	-4.43	25	Pass
NVLT	ac40	5190	Sum	5189.977	-4.43	25	Pass
NVNT	ac40	5190	Sum	5189.9768	-4.47	25	Pass
HVNT	ac80	5210	Sum	5209.9776	-4.3	25	Pass
LVNT	ac80	5210	Sum	5209.9774	-4.34	25	Pass
NVHT	ac80	5210	Sum	5209.9774	-4.34	25	Pass
NVLT	ac80	5210	Sum	5209.977	-4.41	25	Pass
NVNT	ac80	5210	Sum	5209.9766	-4.49	25	Pass
HVNT	ax20	5180	Sum	5179.9774	-4.36	25	Pass
LVNT	ax20	5180	Sum	5179.9772	-4.4	25	Pass
NVHT	ax20	5180	Sum	5179.977	-4.44	25	Pass
NVLT	ax20	5180	Sum	5179.9768	-4.48	25	Pass
NVNT	ax20	5180	Sum	5179.9768	-4.48	25	Pass
HVNT	ax40	5190	Sum	5189.9776	-4.32	25	Pass
LVNT	ax40	5190	Sum	5189.9776	-4.32	25	Pass
NVHT	ax40	5190	Sum	5189.9776	-4.32	25	Pass
NVLT	ax40	5190	Sum	5189.9774	-4.35	25	Pass
NVNT	ax40	5190	Sum	5189.9772	-4.39	25	Pass
HVNT	ax80	5210	Sum	5209.9782	-4.18	25	Pass
LVNT	ax80	5210	Sum	5209.978	-4.22	25	Pass
NVHT	ax80	5210	Sum	5209.9778	-4.26	25	Pass
NVLT	ax80	5210	Sum	5209.9762	-4.57	25	Pass

NVNT	ax80	5210	Sum	5209.9776	-4.3	25	Pass
HVNT	n20	5180	Sum	5179.9754	-4.75	25	Pass
LVNT	n20	5180	Sum	5179.9752	-4.79	25	Pass
NVHT	n20	5180	Sum	5179.9752	-4.79	25	Pass
NVLT	n20	5180	Sum	5179.975	-4.83	25	Pass
NVNT	n20	5180	Sum	5179.975	-4.83	25	Pass
HVNT	n40	5190	Sum	5189.9766	-4.51	25	Pass
LVNT	n40	5190	Sum	5189.9766	-4.51	25	Pass
NVHT	n40	5190	Sum	5189.9764	-4.55	25	Pass
NVLT	n40	5190	Sum	5189.9764	-4.55	25	Pass
NVNT	n40	5190	Sum	5189.9762	-4.59	25	Pass

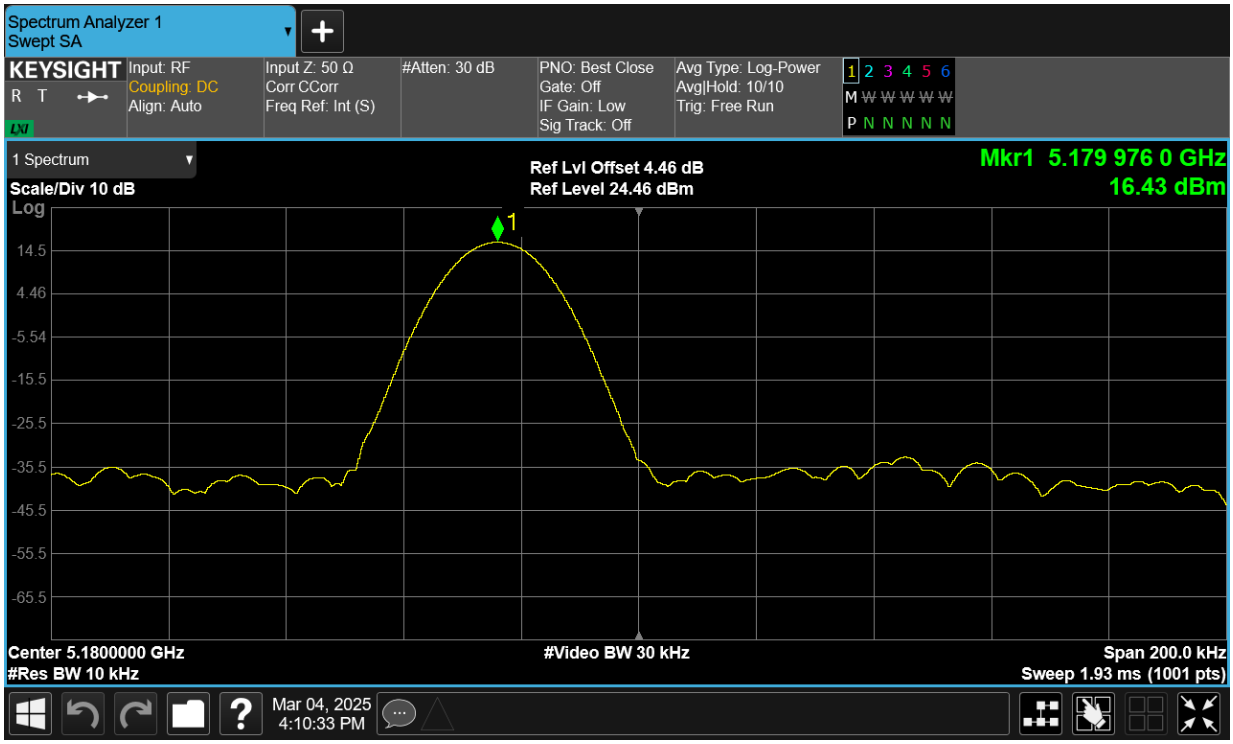
Test Graphs
Freq. Stability HVNT a 5180MHz Ant1



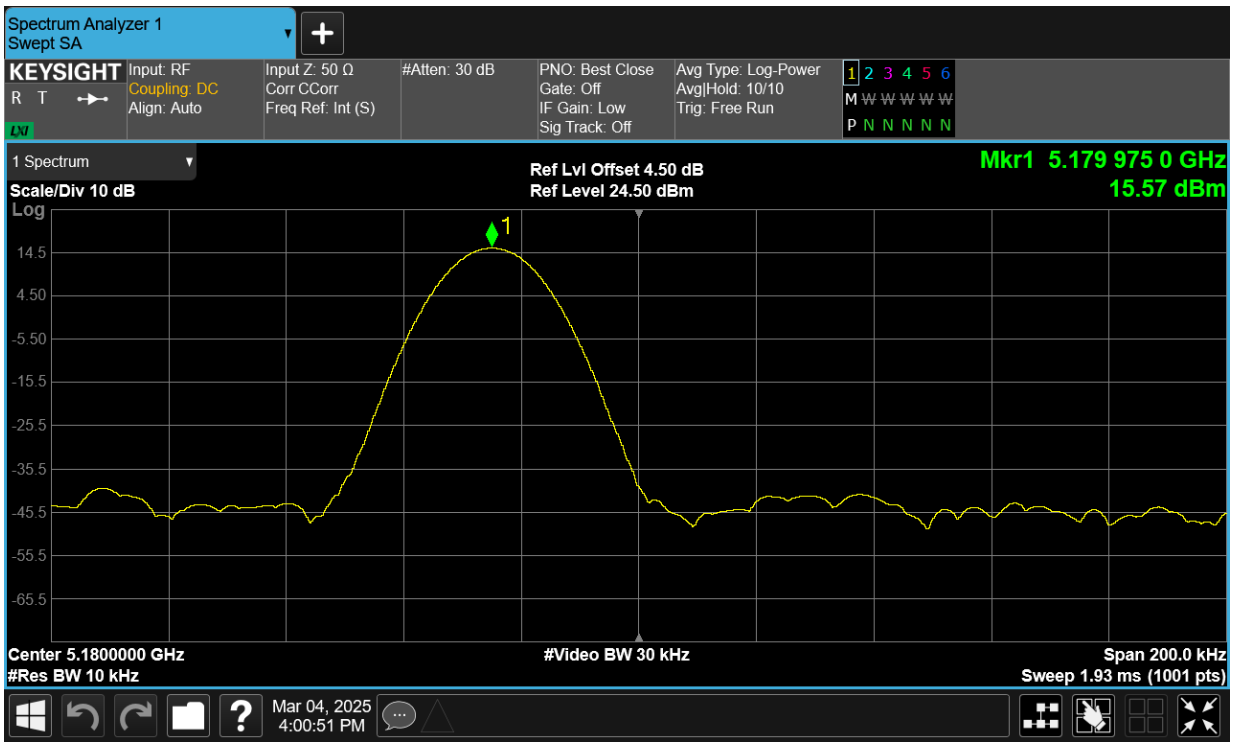
Freq. Stability HVNT a 5180MHz Ant2



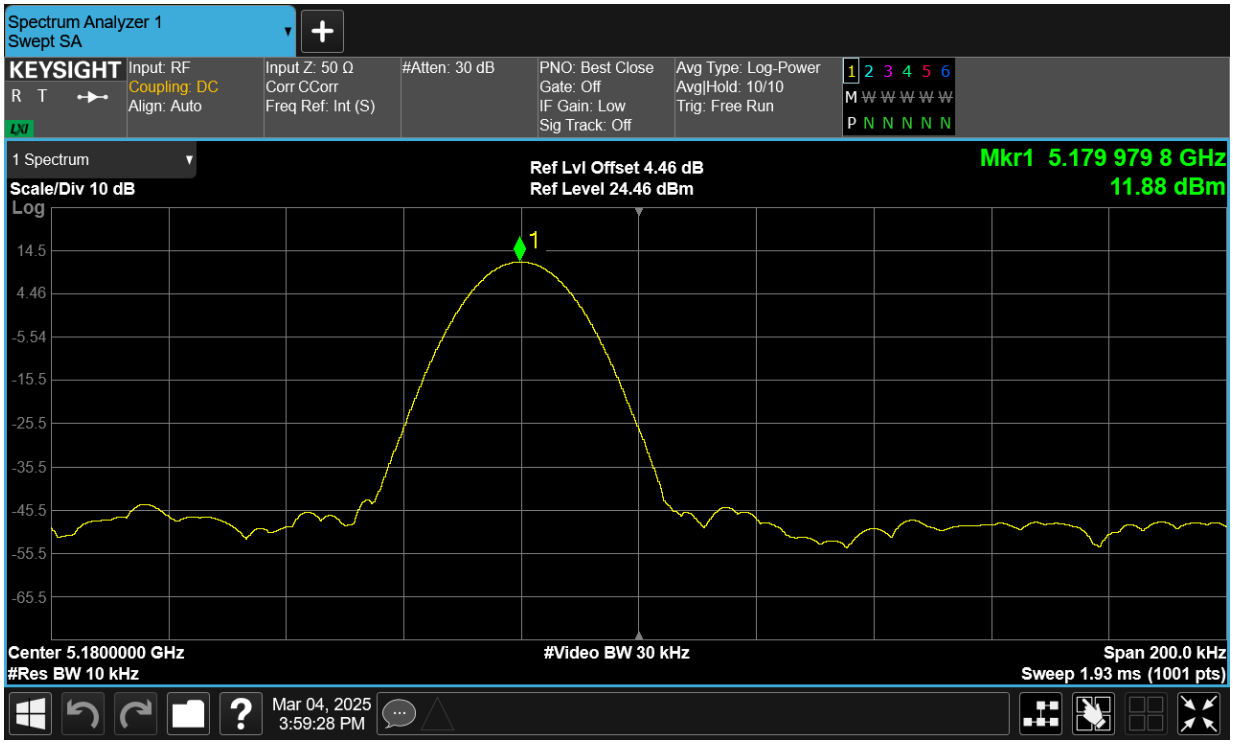
Freq. Stability LVNT a 5180MHz Ant1



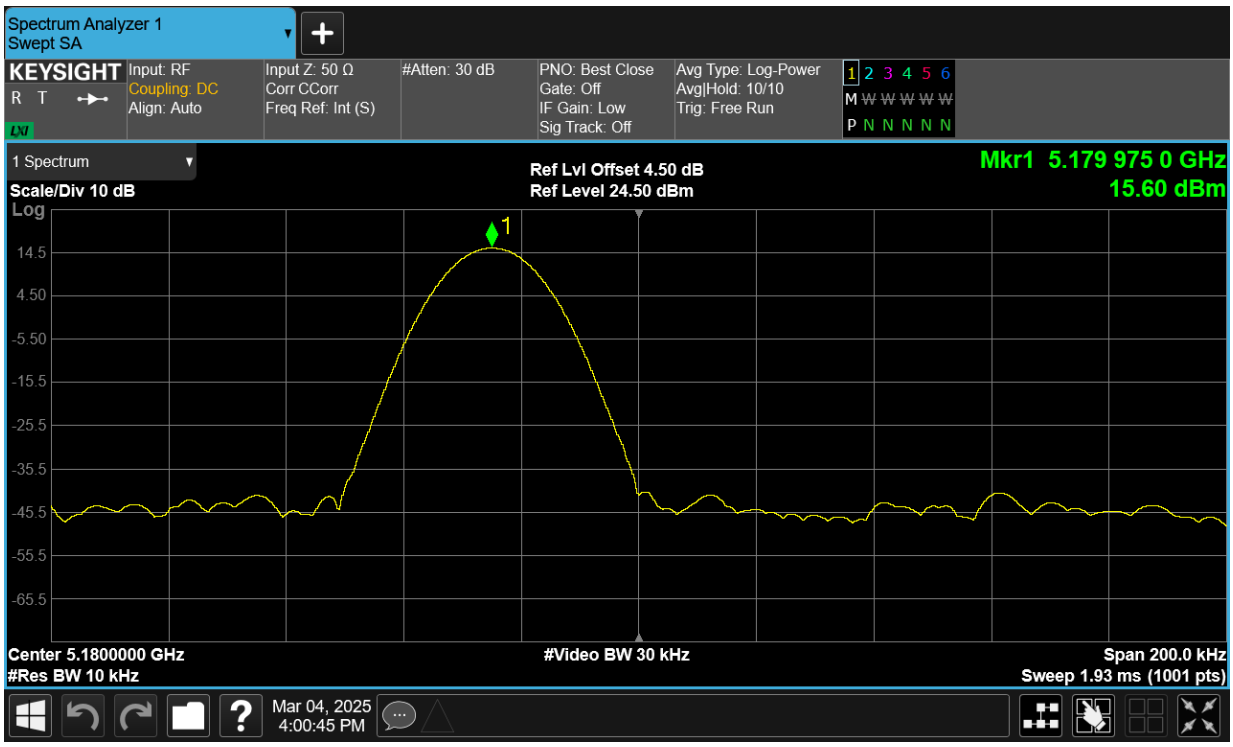
Freq. Stability LVNT a 5180MHz Ant2



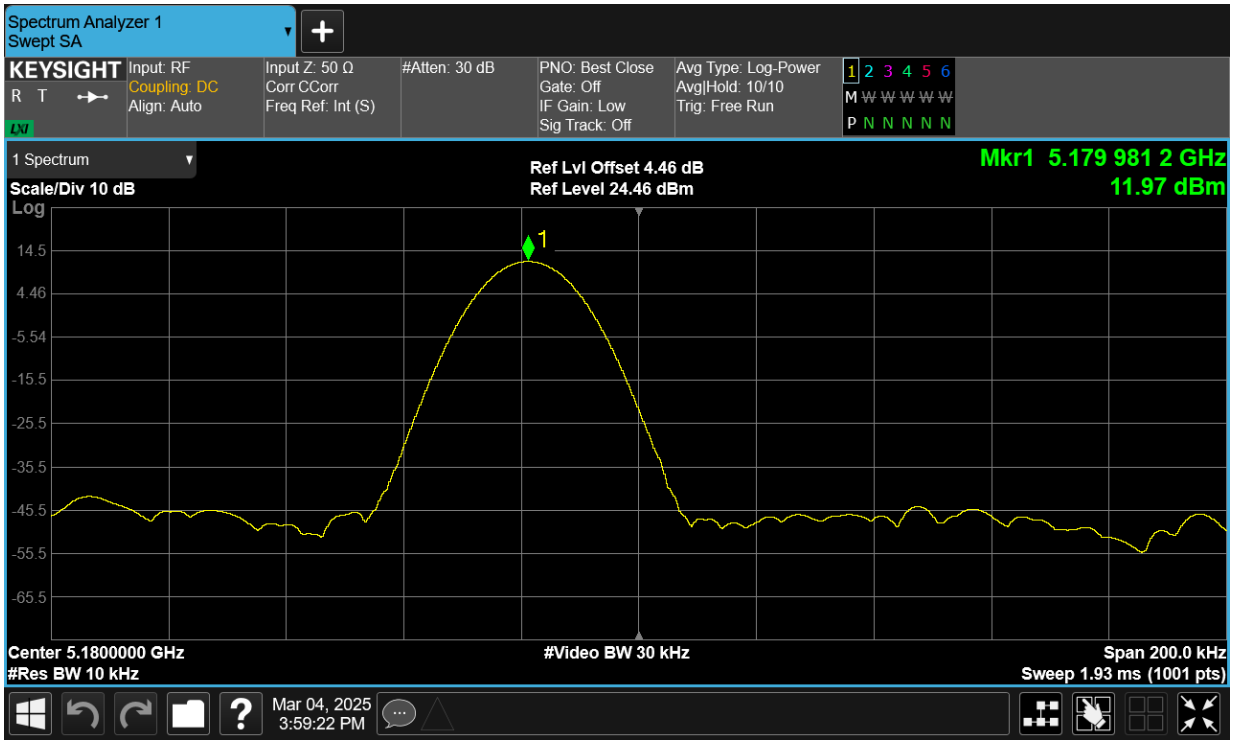
Freq. Stability NVHT a 5180MHz Ant1



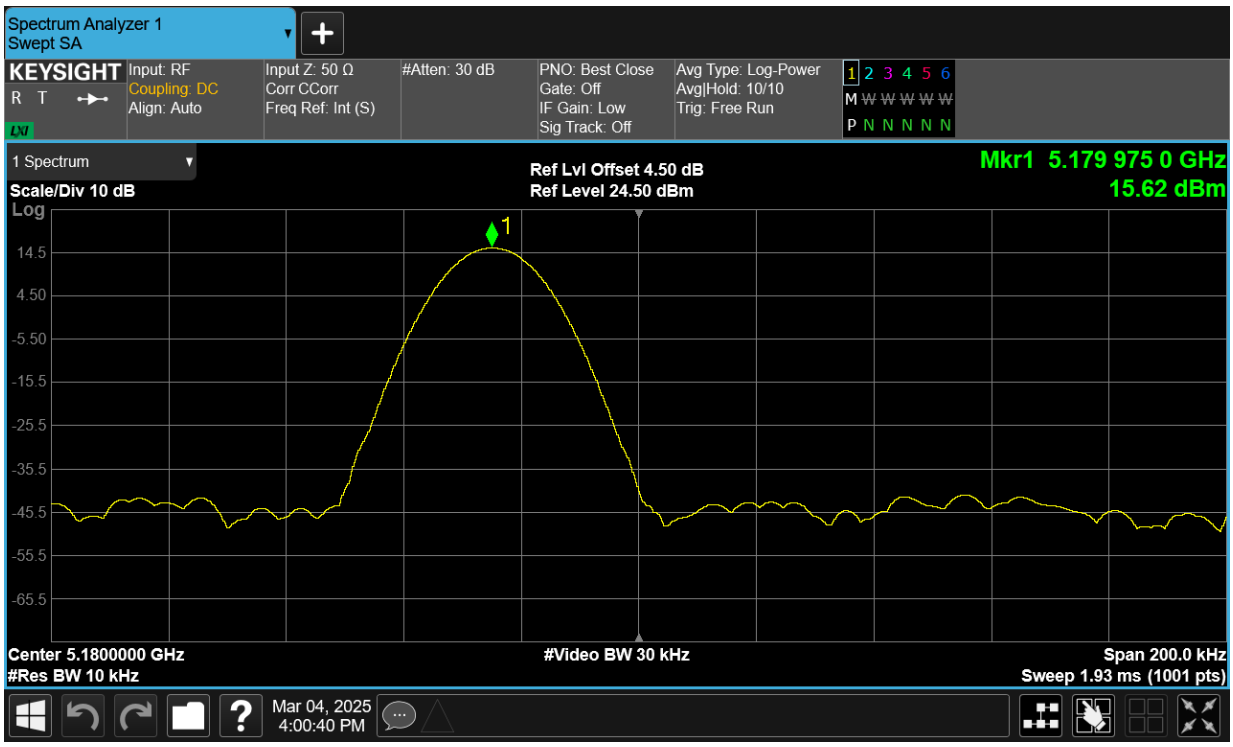
Freq. Stability NVHT a 5180MHz Ant2



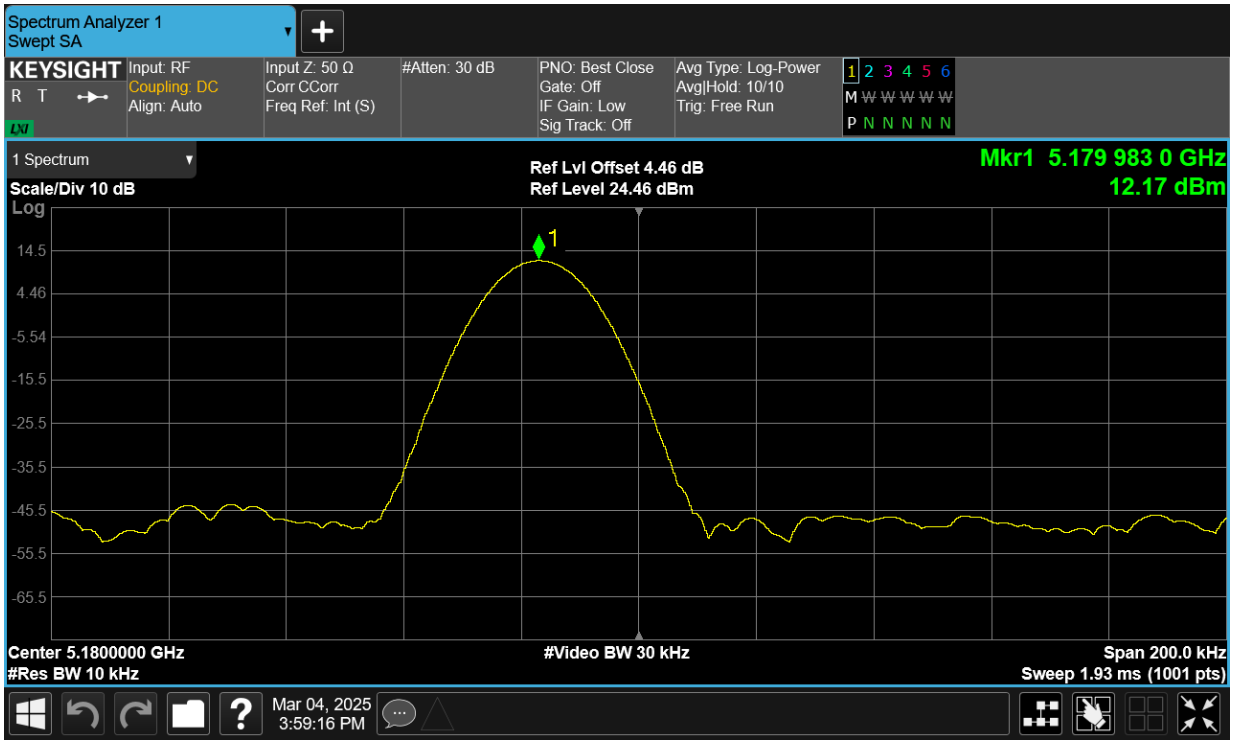
Freq. Stability NVLT a 5180MHz Ant1



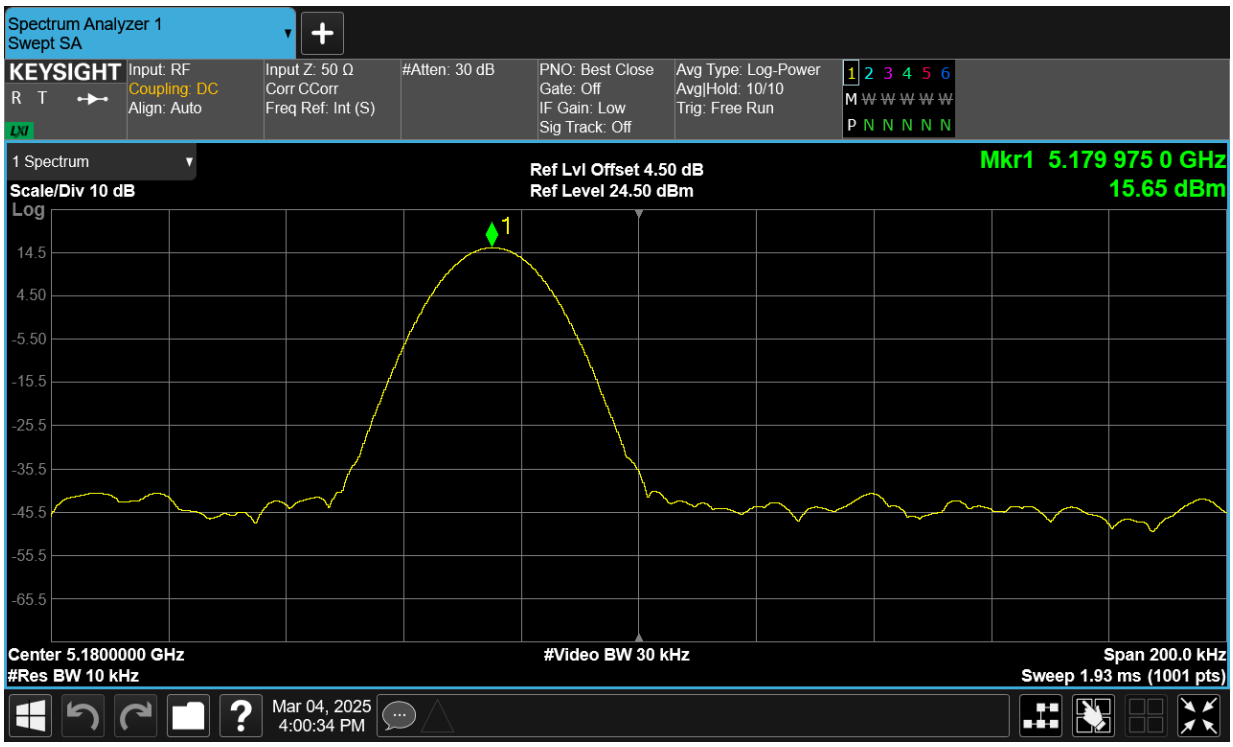
Freq. Stability NVLT a 5180MHz Ant2



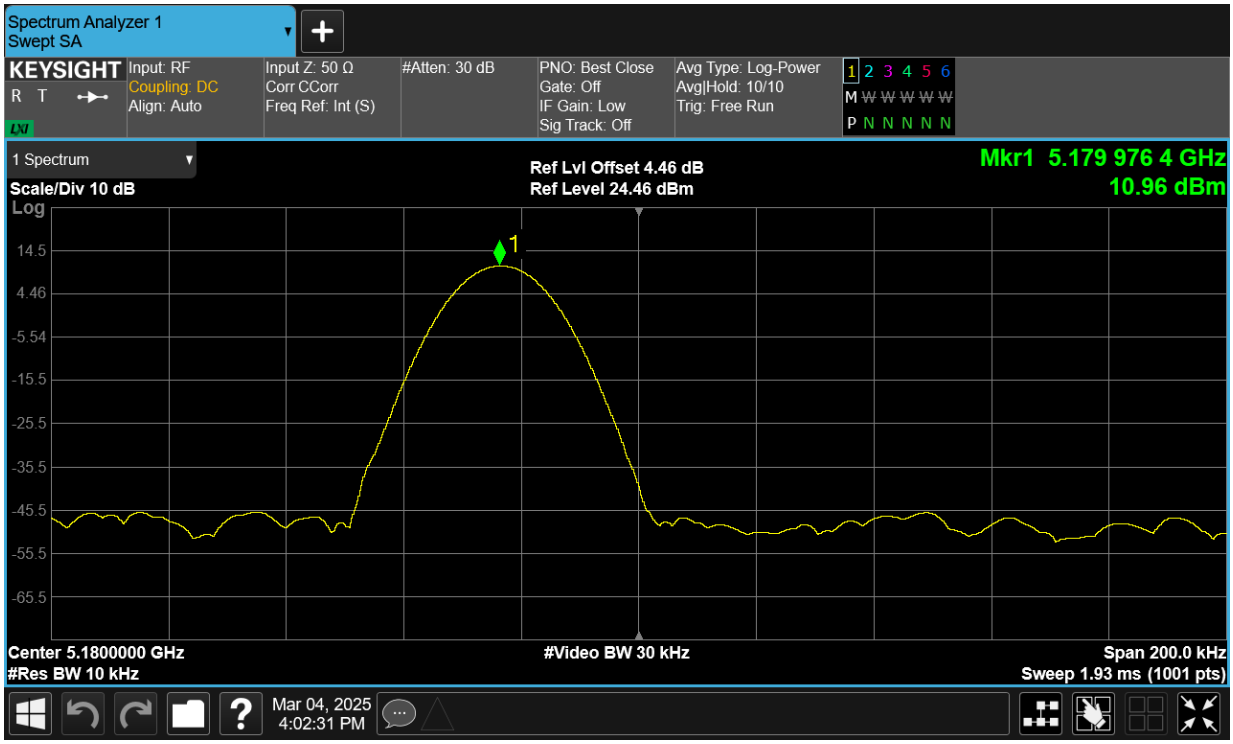
Freq. Stability NVNT a 5180MHz Ant1



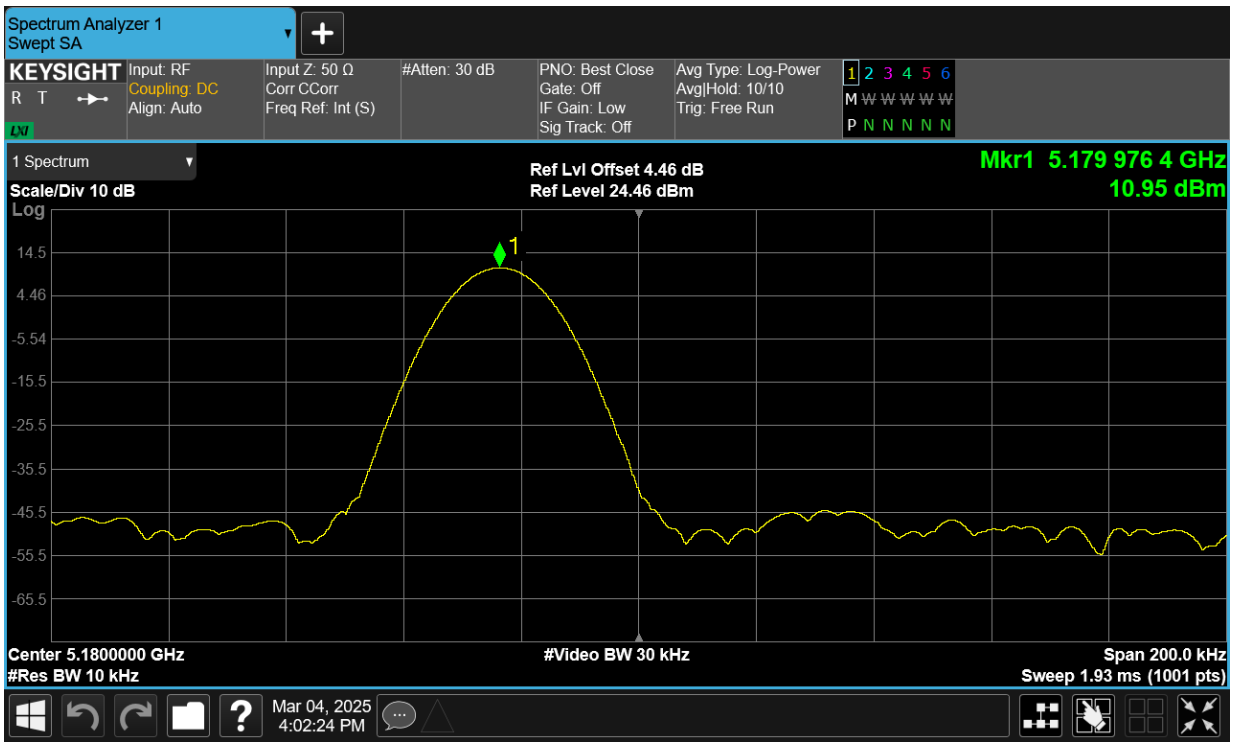
Freq. Stability NVNT a 5180MHz Ant2



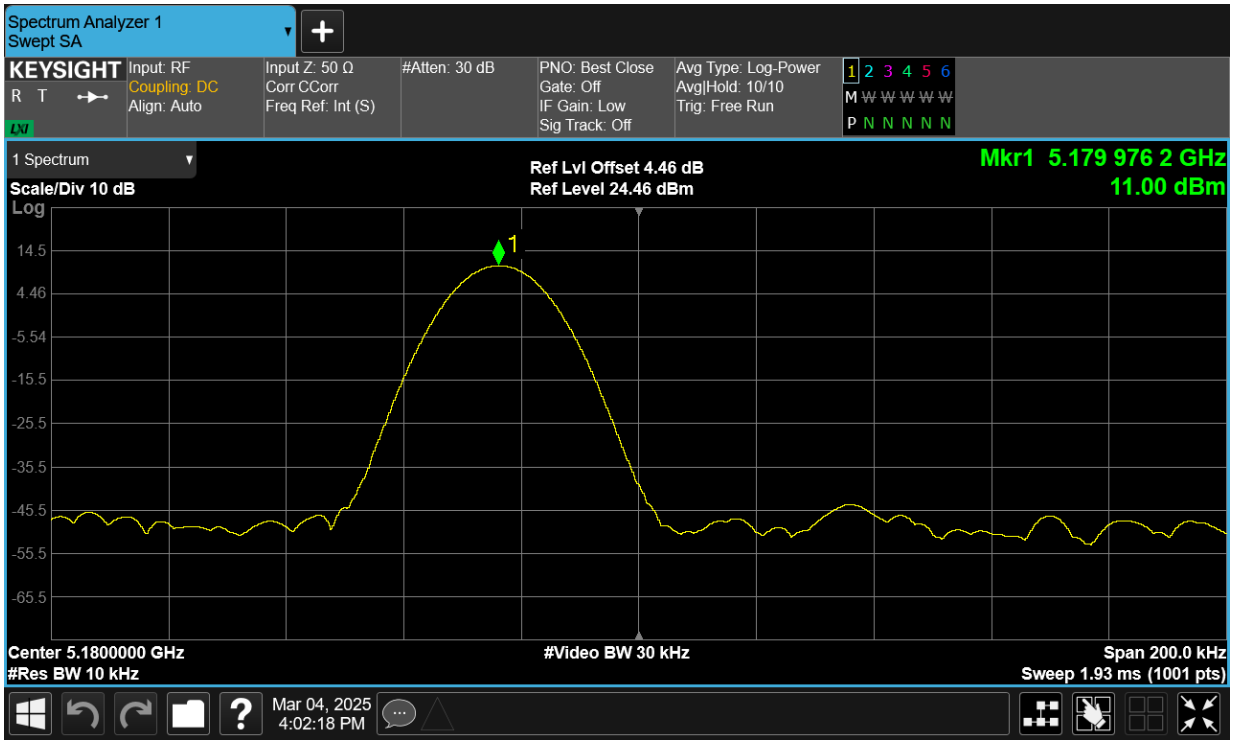
Freq. Stability HVNT ac20 5180MHz Sum



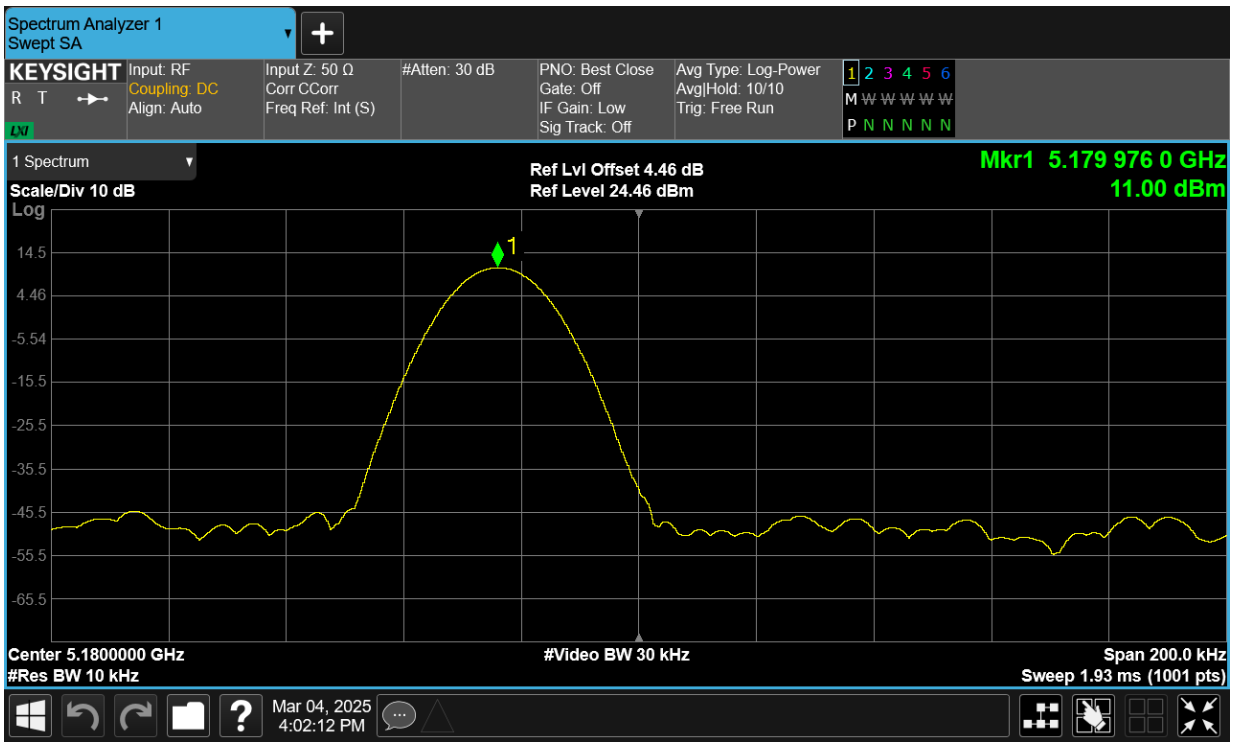
Freq. Stability LVNT ac20 5180MHz Sum



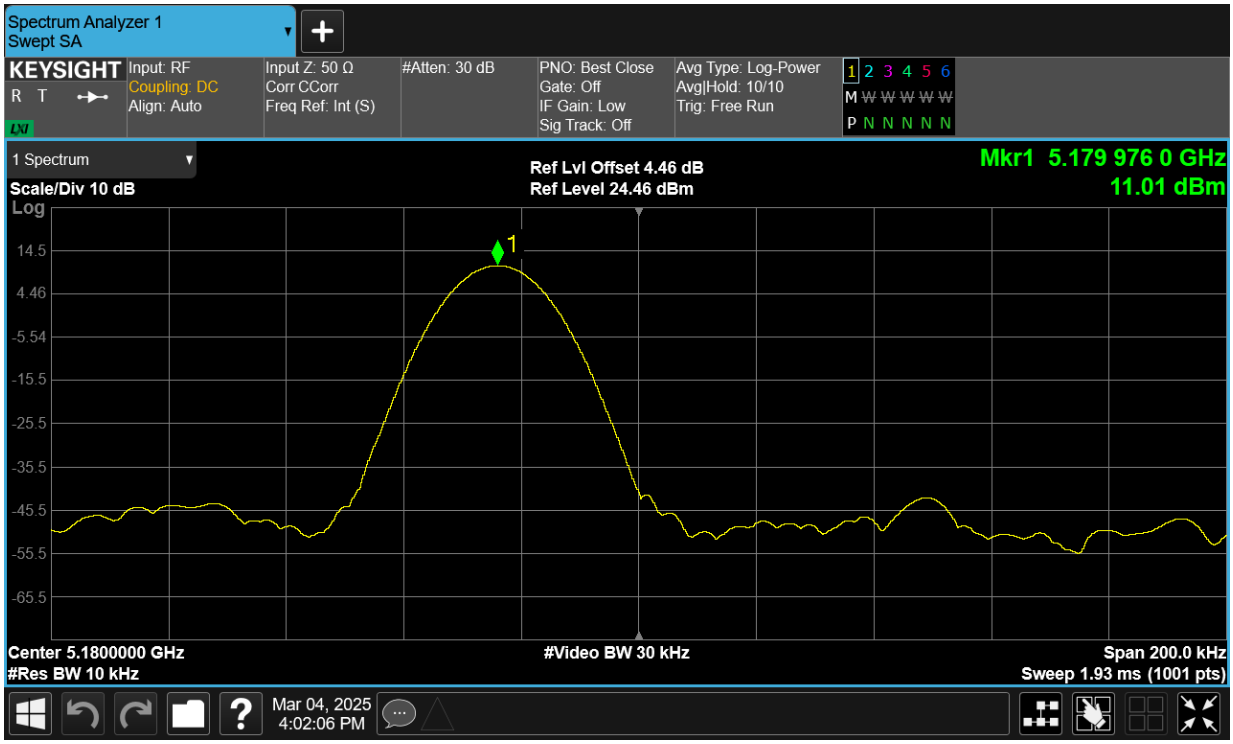
Freq. Stability NVHT ac20 5180MHz Sum



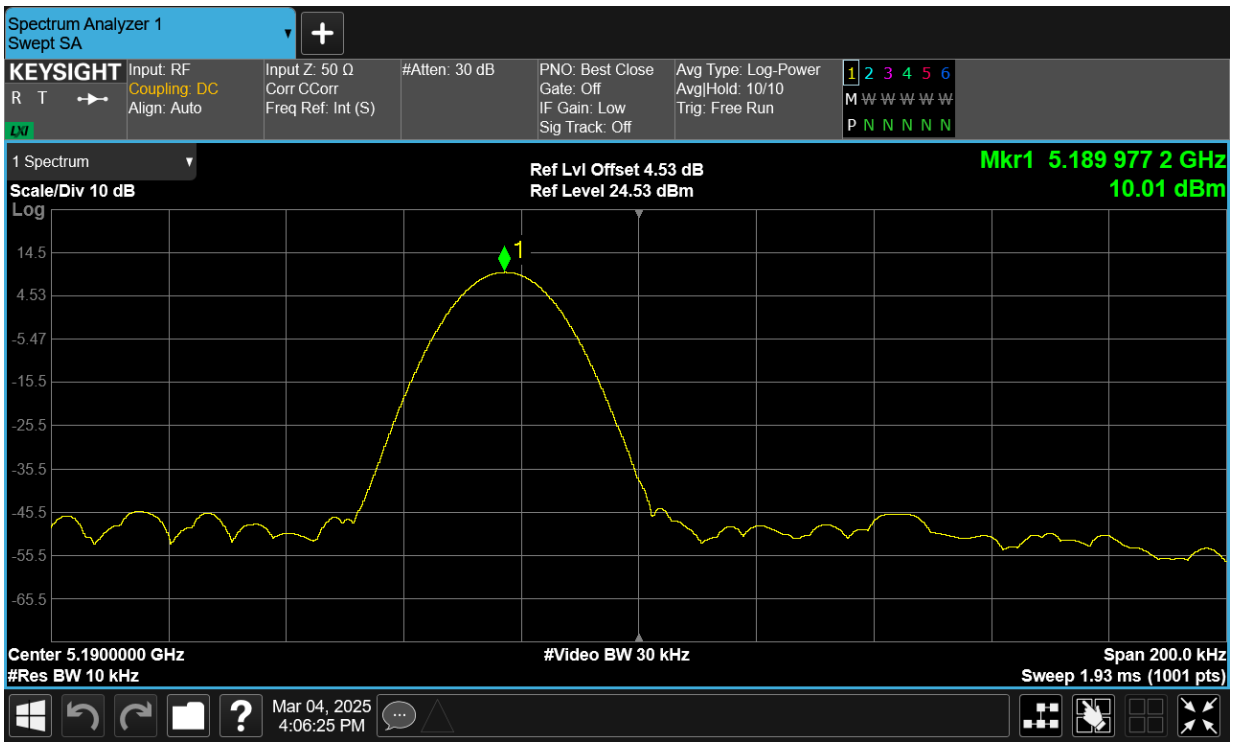
Freq. Stability NVLT ac20 5180MHz Sum



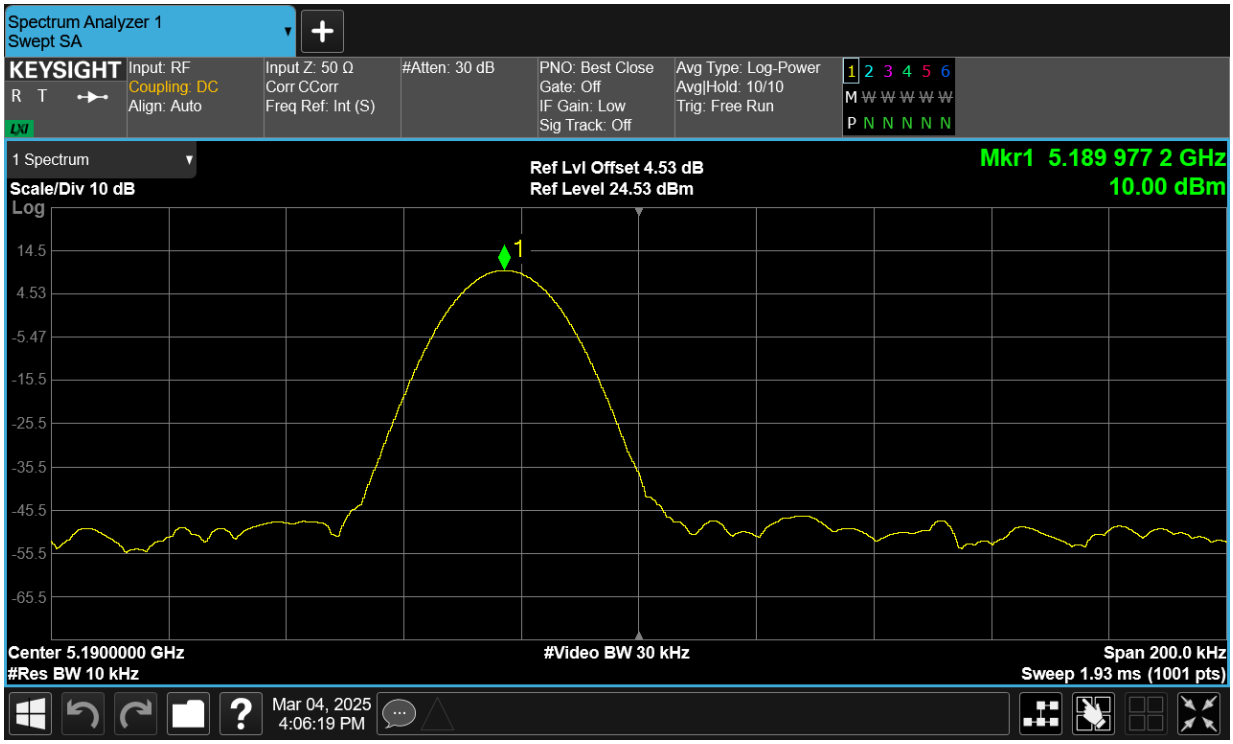
Freq. Stability NVNT ac20 5180MHz Sum



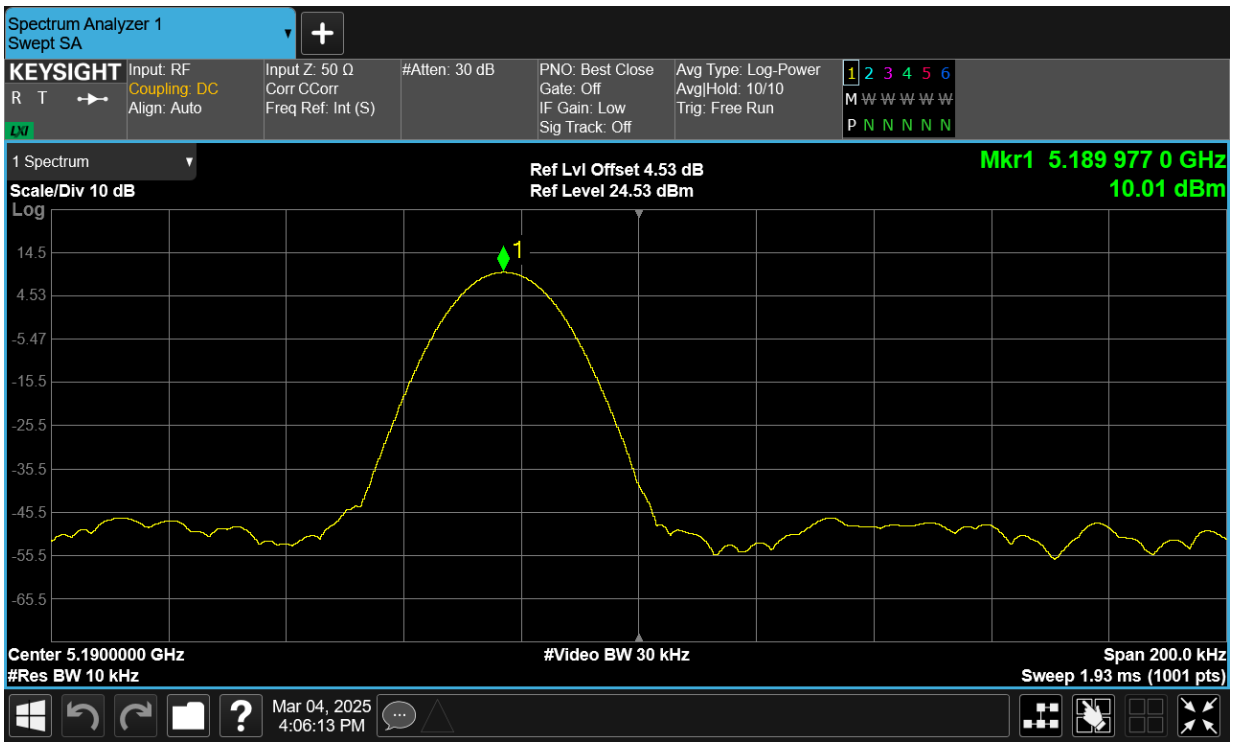
Freq. Stability HVNT ac40 5190MHz Sum



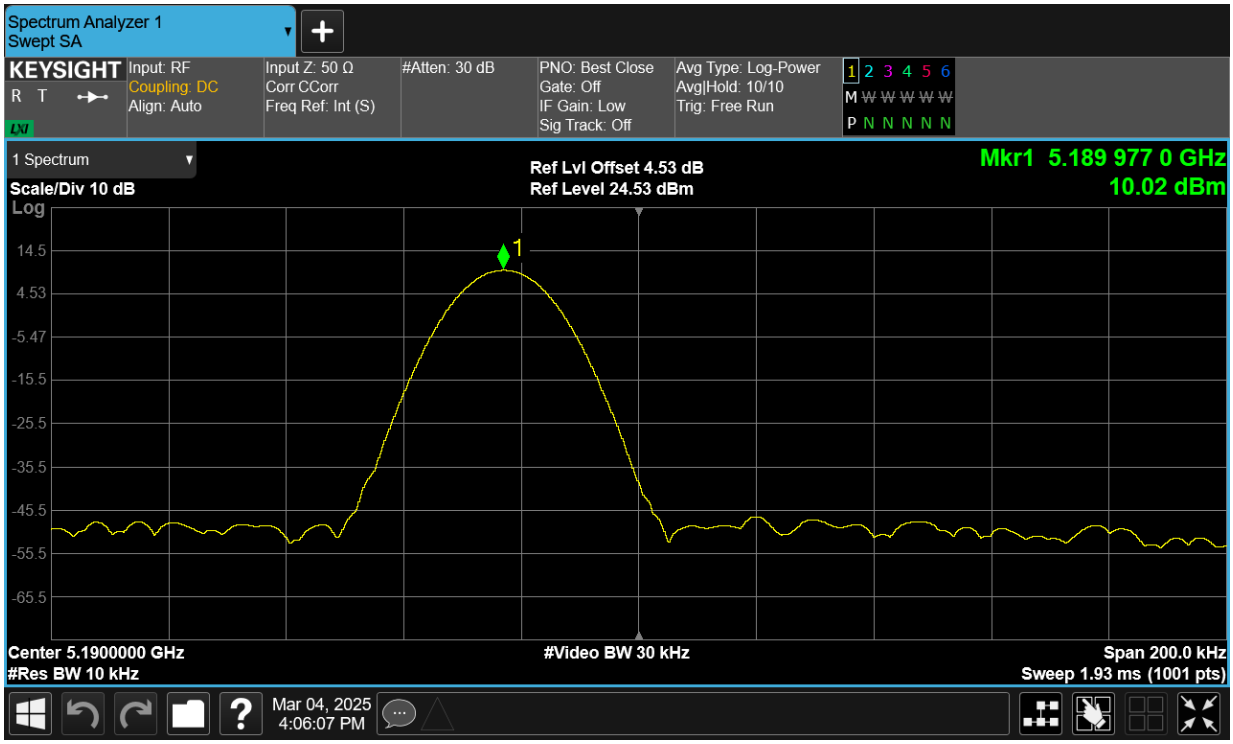
Freq. Stability LVNT ac40 5190MHz Sum



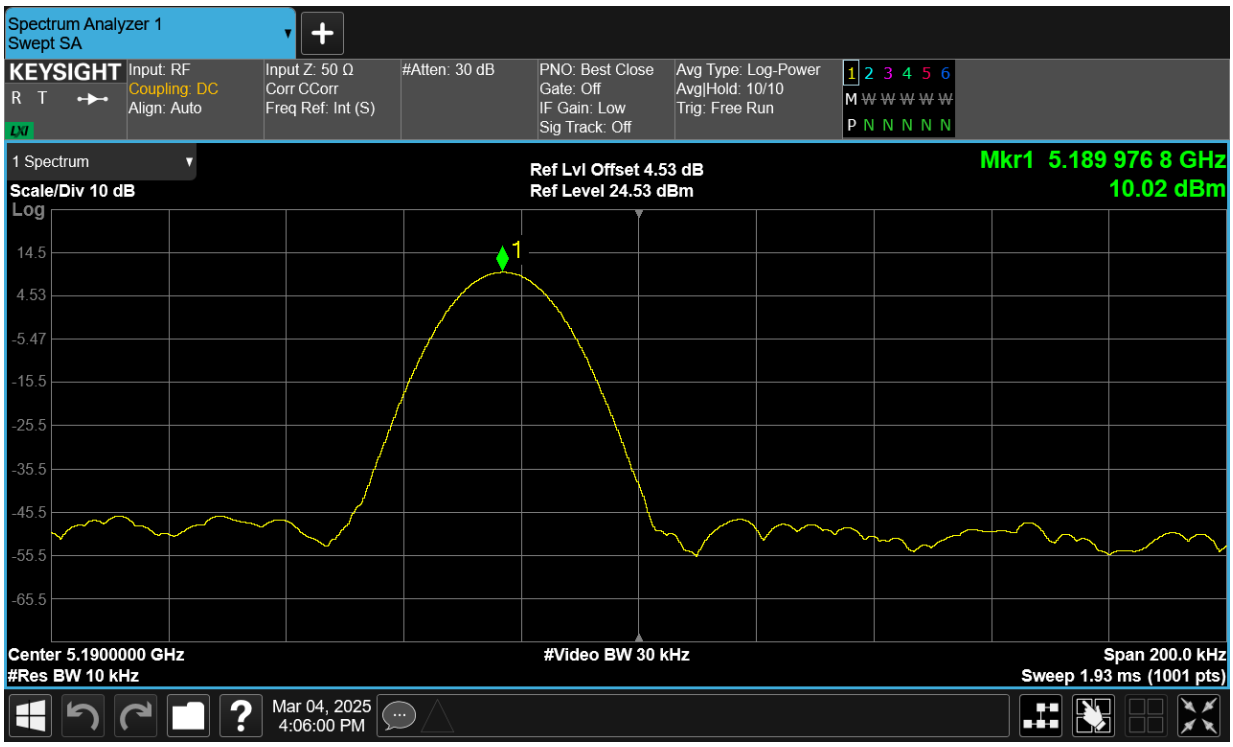
Freq. Stability NVHT ac40 5190MHz Sum



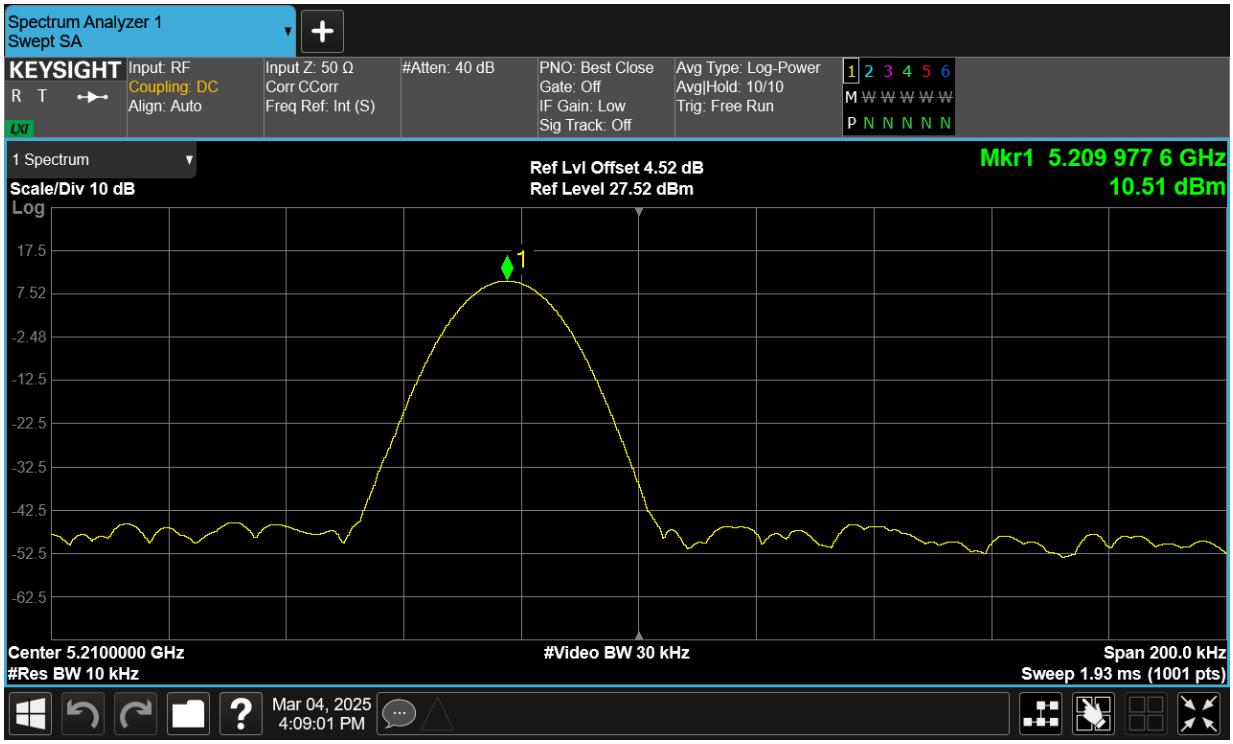
Freq. Stability NVLT ac40 5190MHz Sum



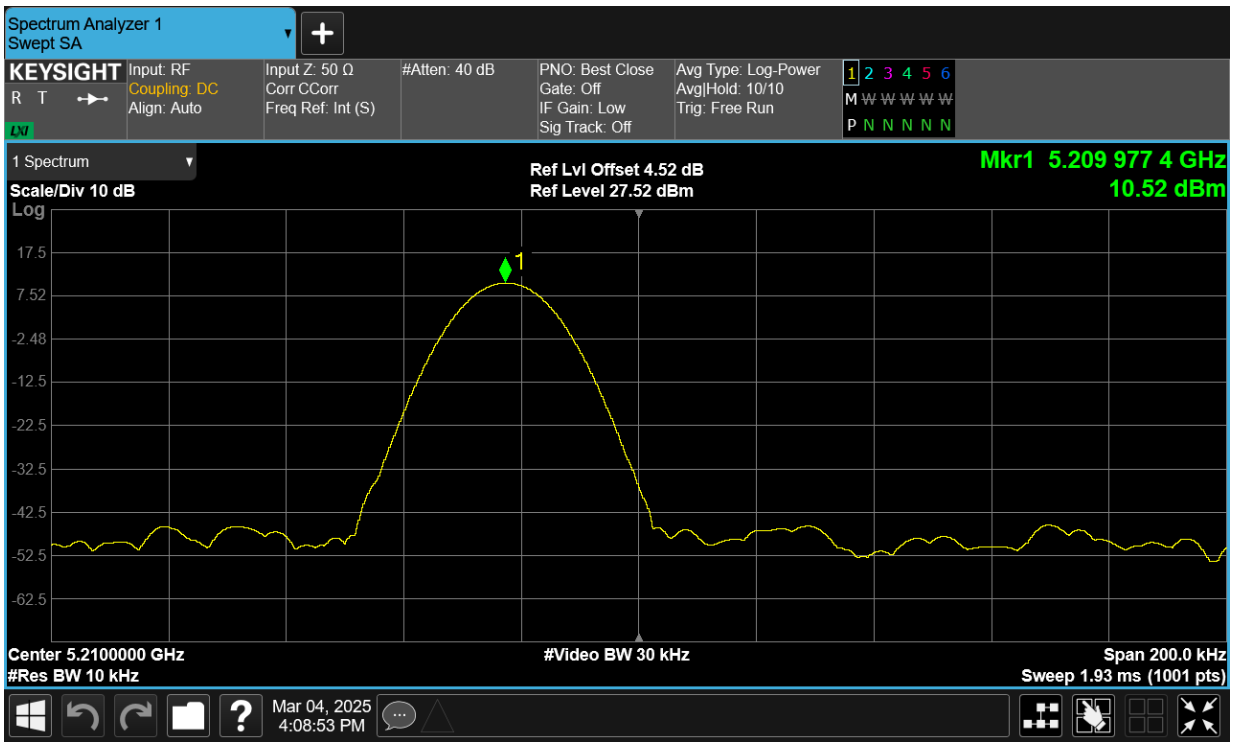
Freq. Stability NVNT ac40 5190MHz Sum



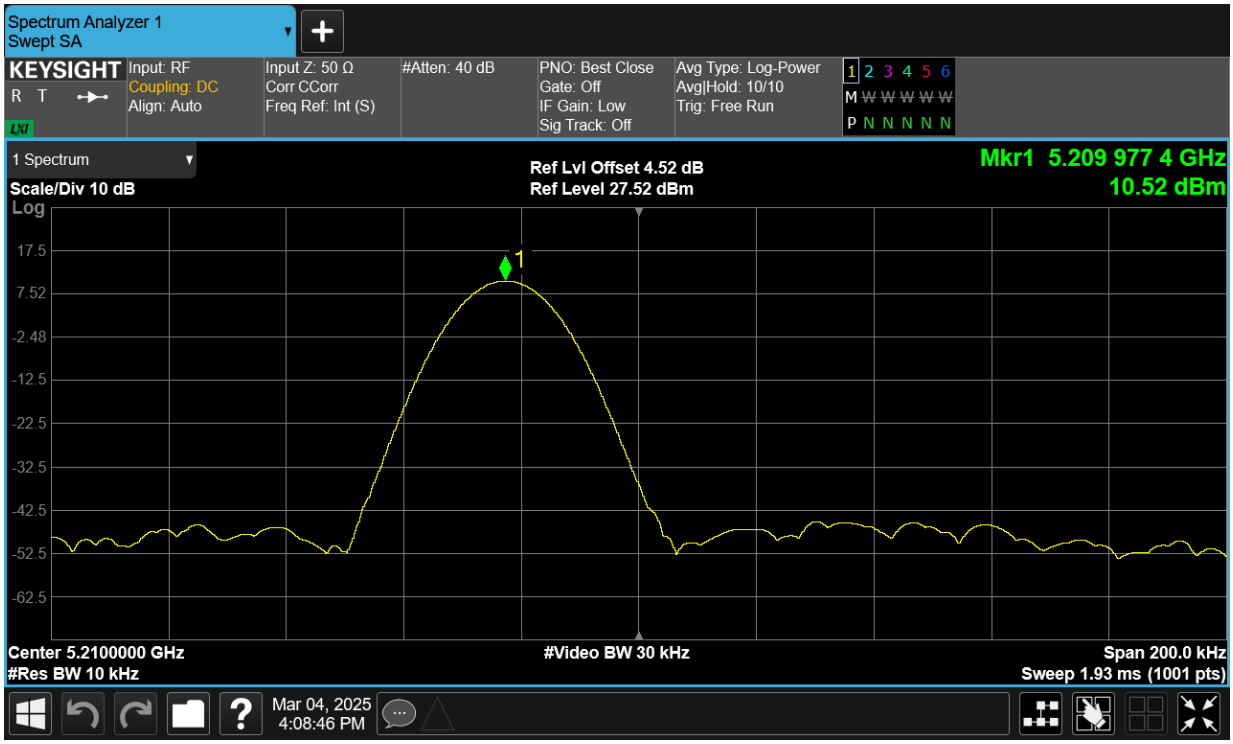
Freq. Stability HVNT ac80 5210MHz Sum



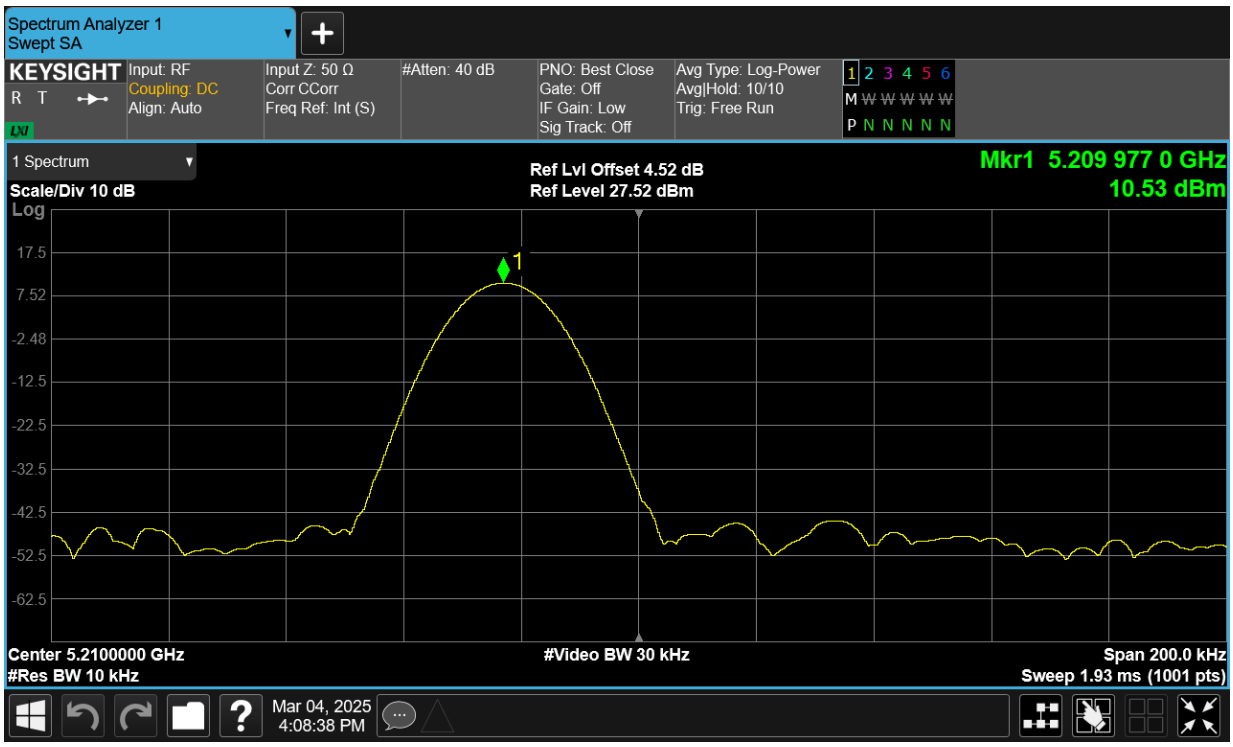
Freq. Stability LVNT ac80 5210MHz Sum



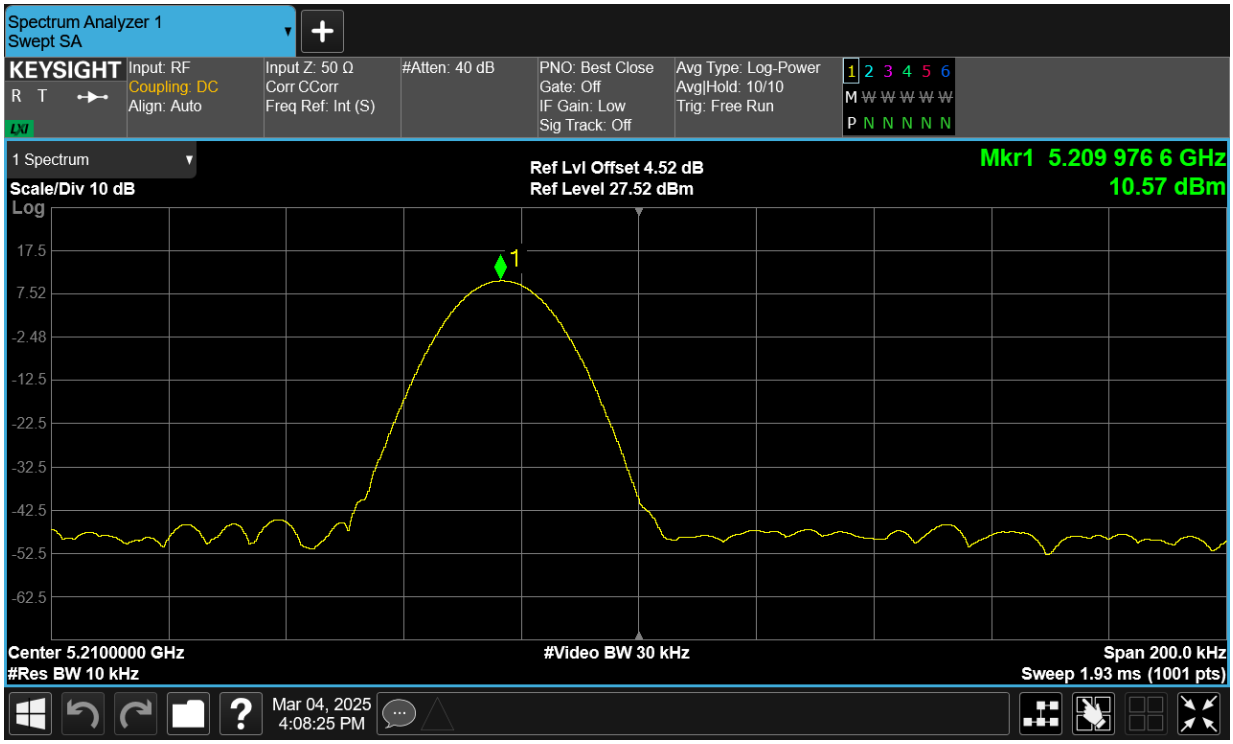
Freq. Stability NVHT ac80 5210MHz Sum



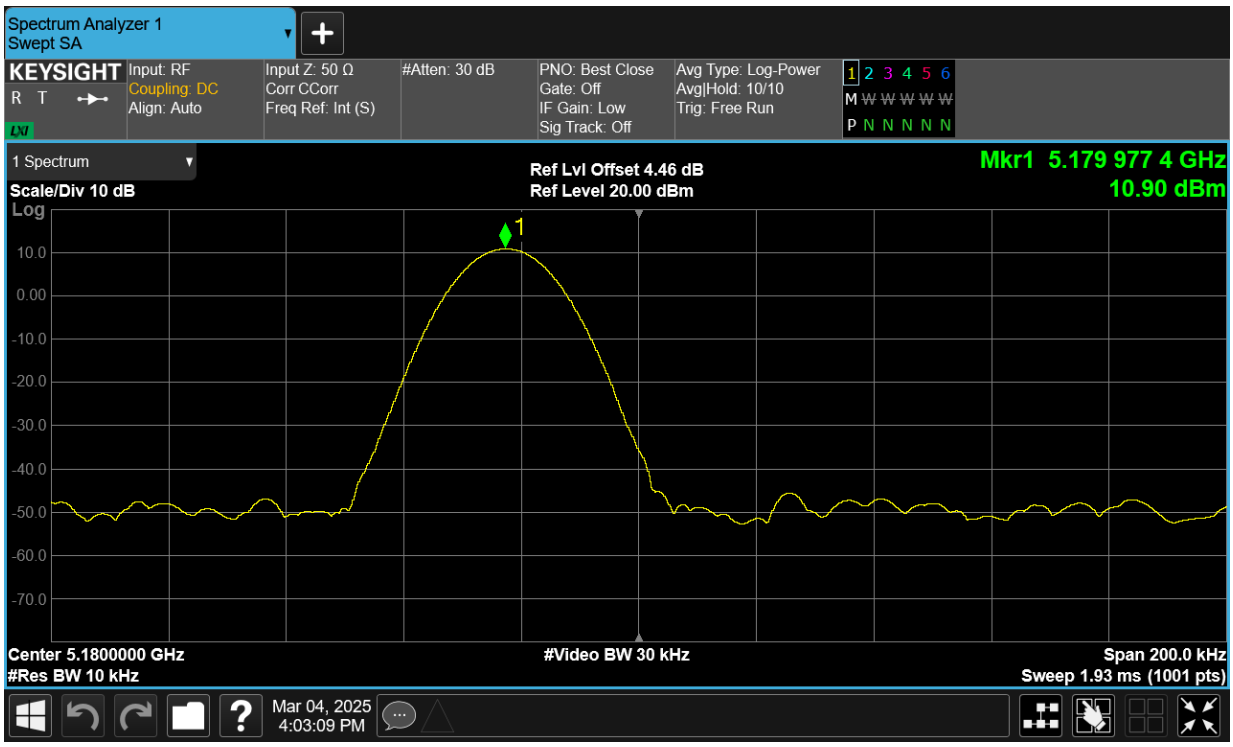
Freq. Stability NVLT ac80 5210MHz Sum



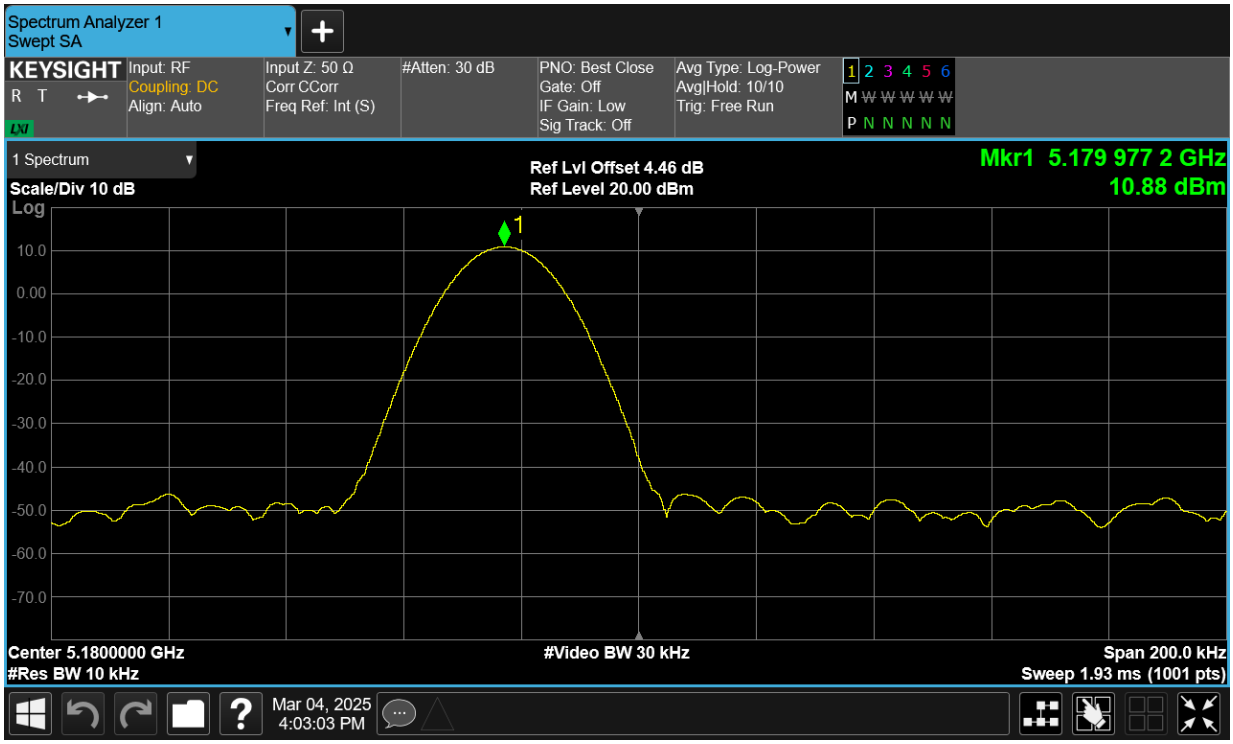
Freq. Stability NVNT ac80 5210MHz Sum



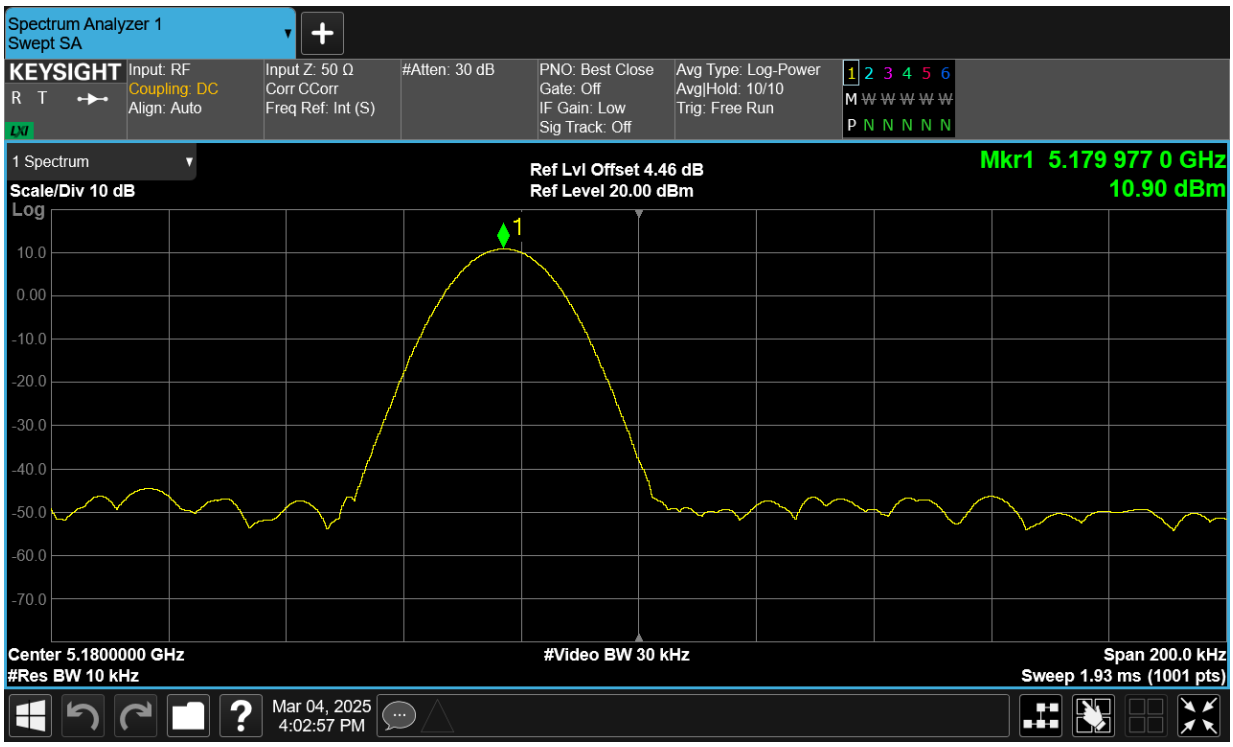
Freq. Stability HVNT ax20 5180MHz Sum



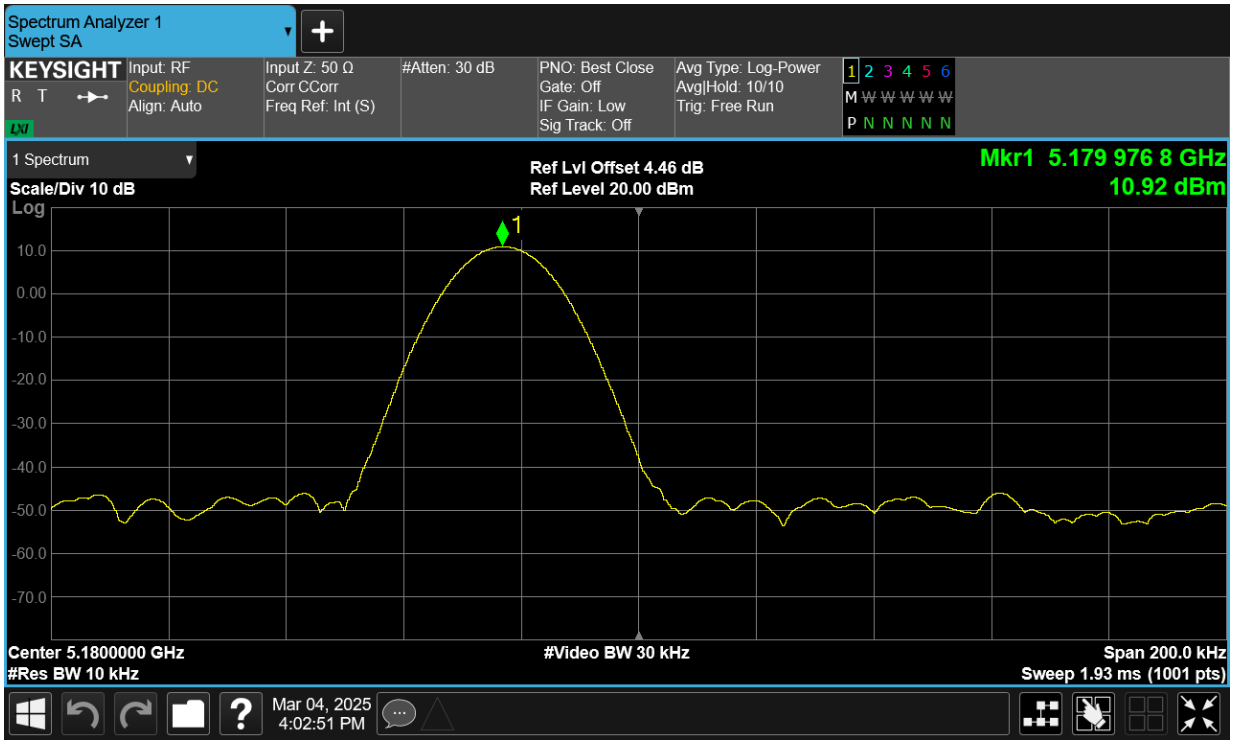
Freq. Stability LVNT ax20 5180MHz Sum



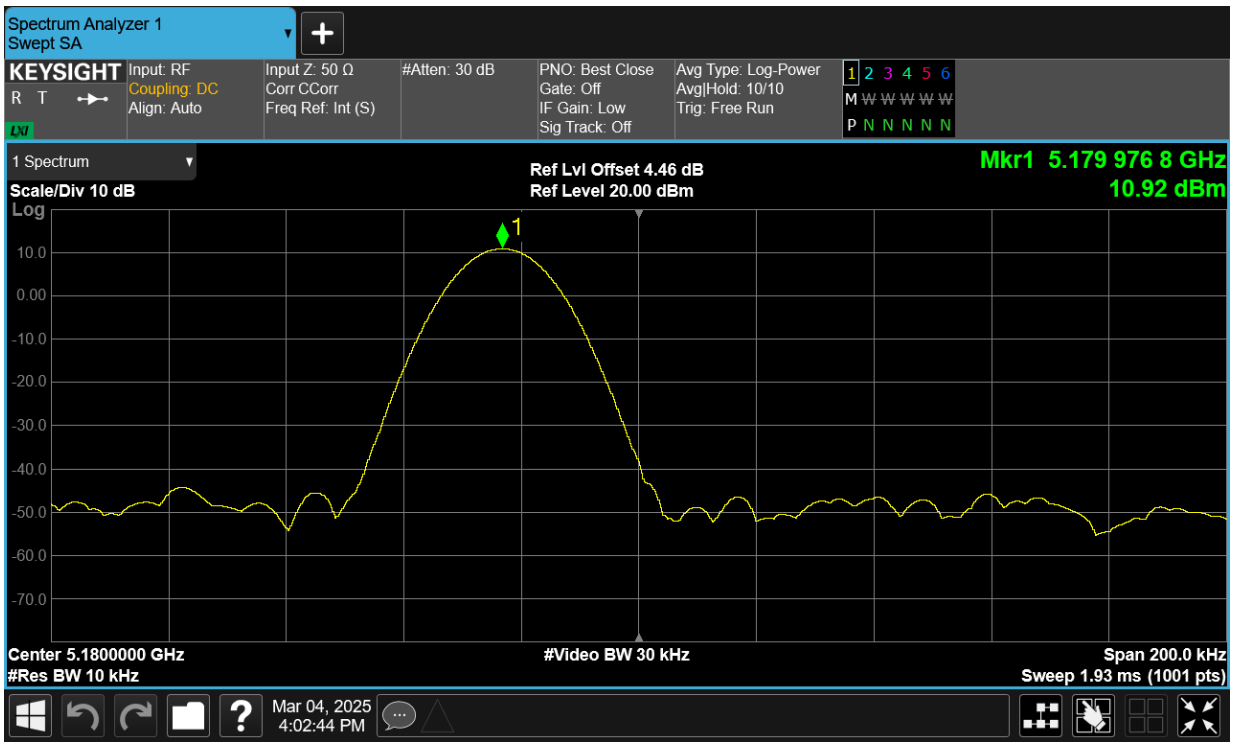
Freq. Stability NVHT ax20 5180MHz Sum



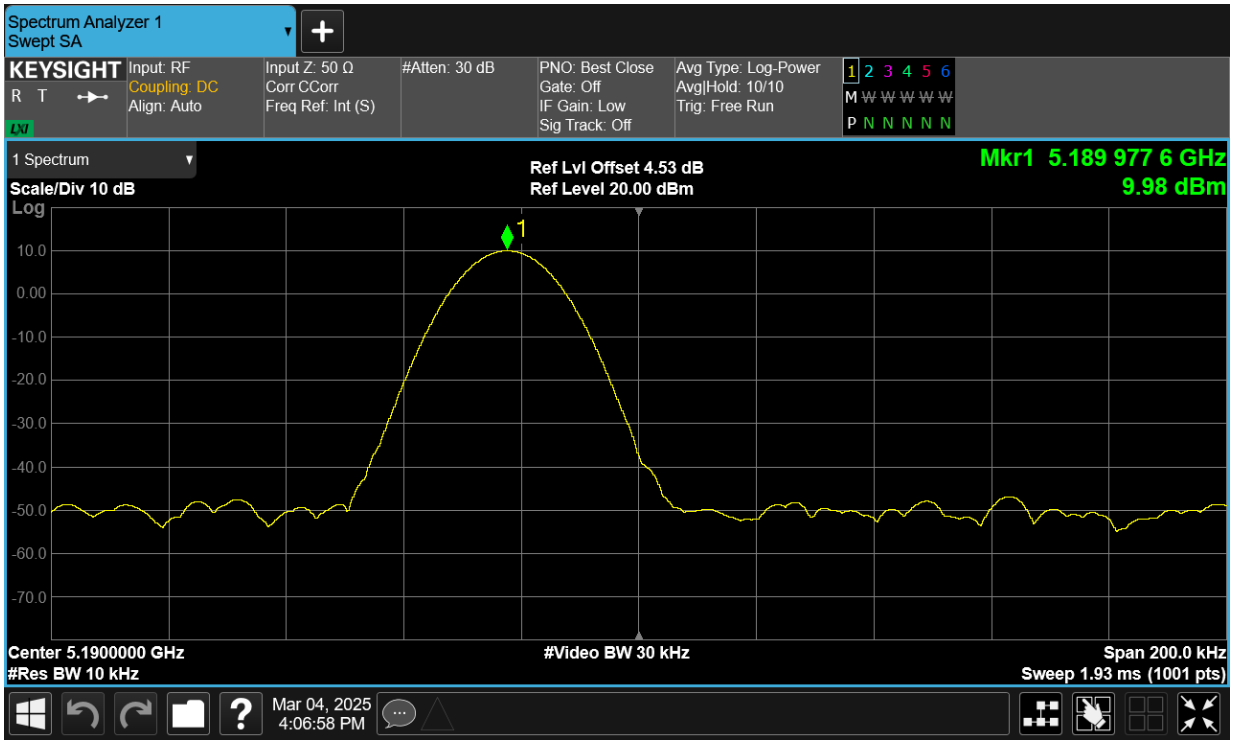
Freq. Stability NVLT ax20 5180MHz Sum



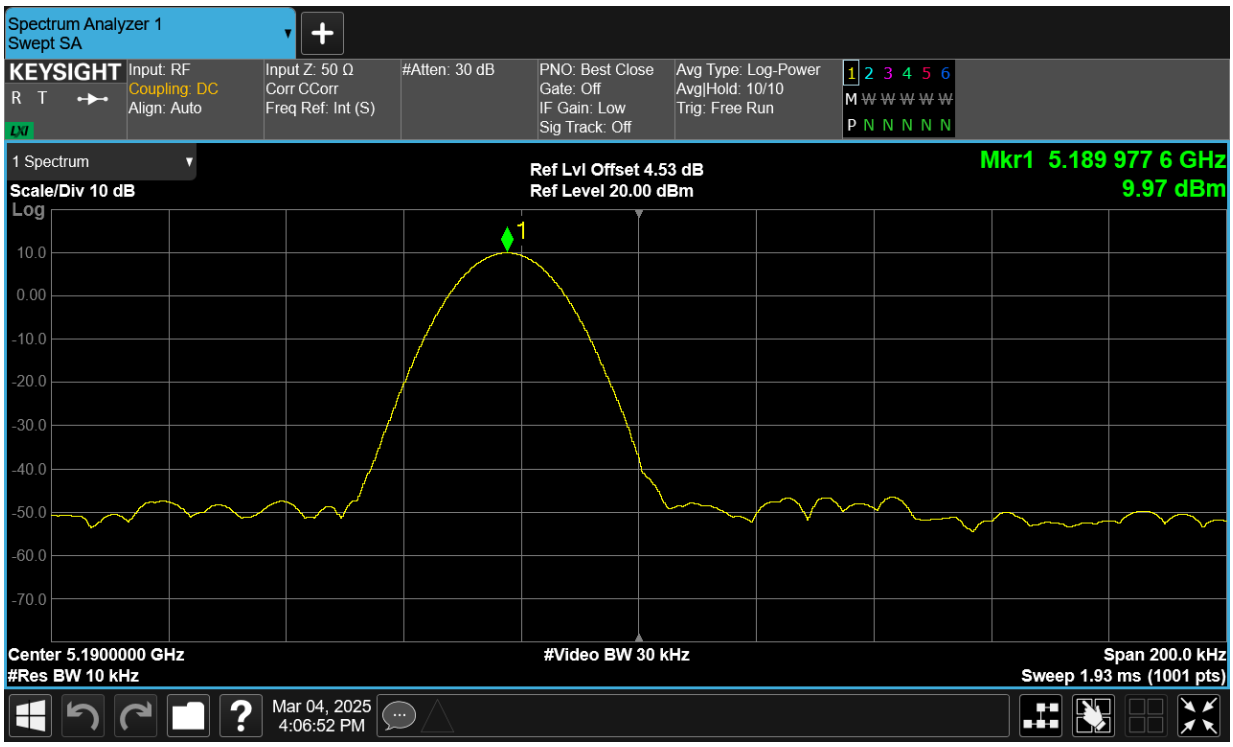
Freq. Stability NVNT ax20 5180MHz Sum



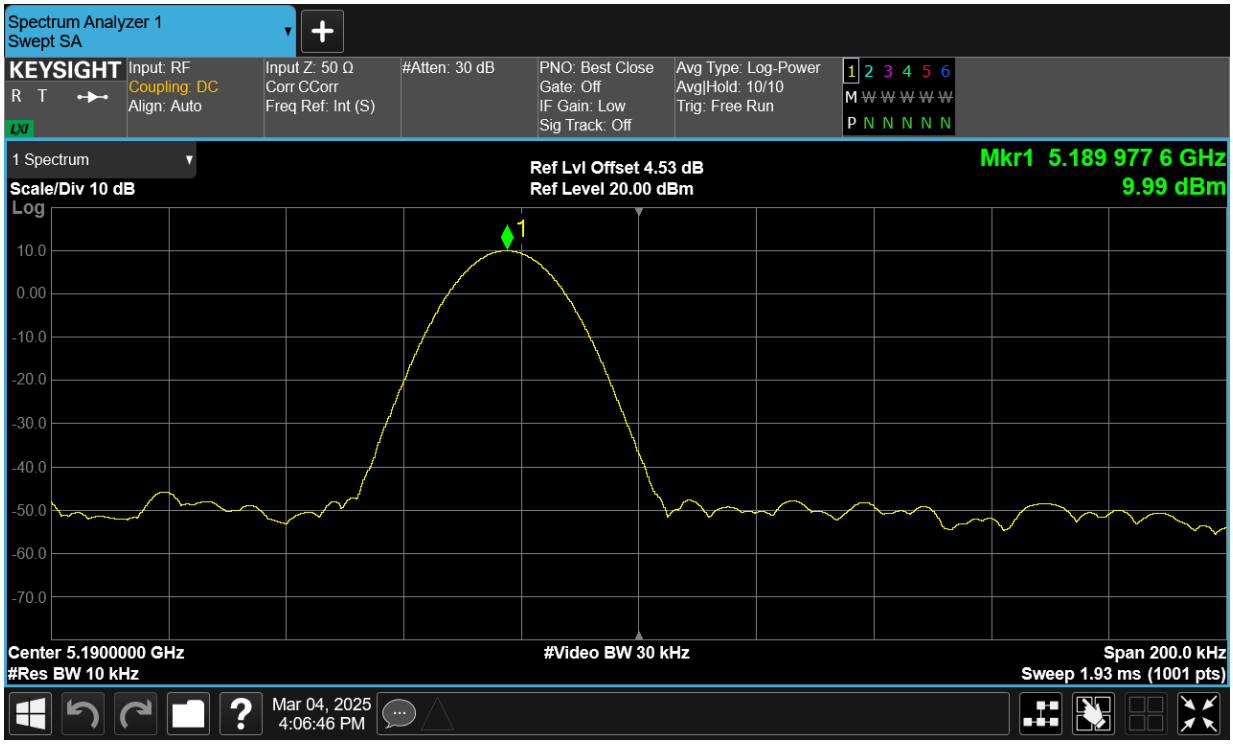
Freq. Stability HVNT ax40 5190MHz Sum



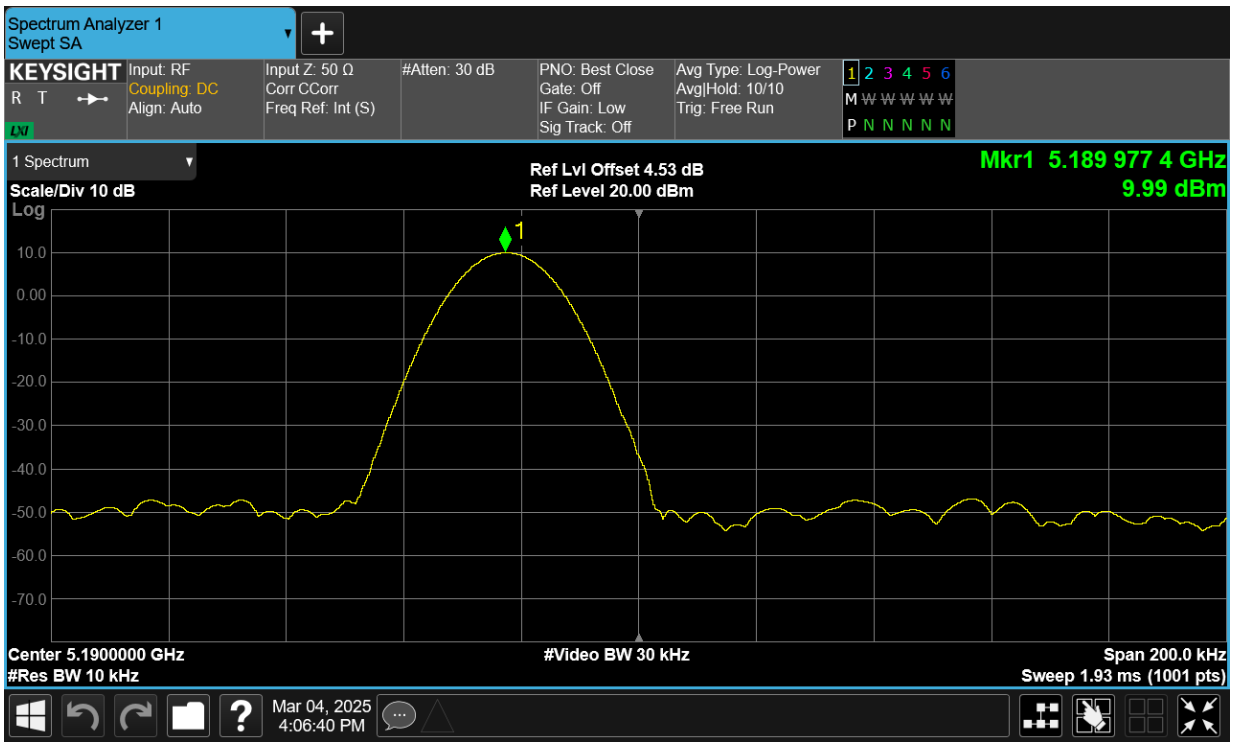
Freq. Stability LVNT ax40 5190MHz Sum



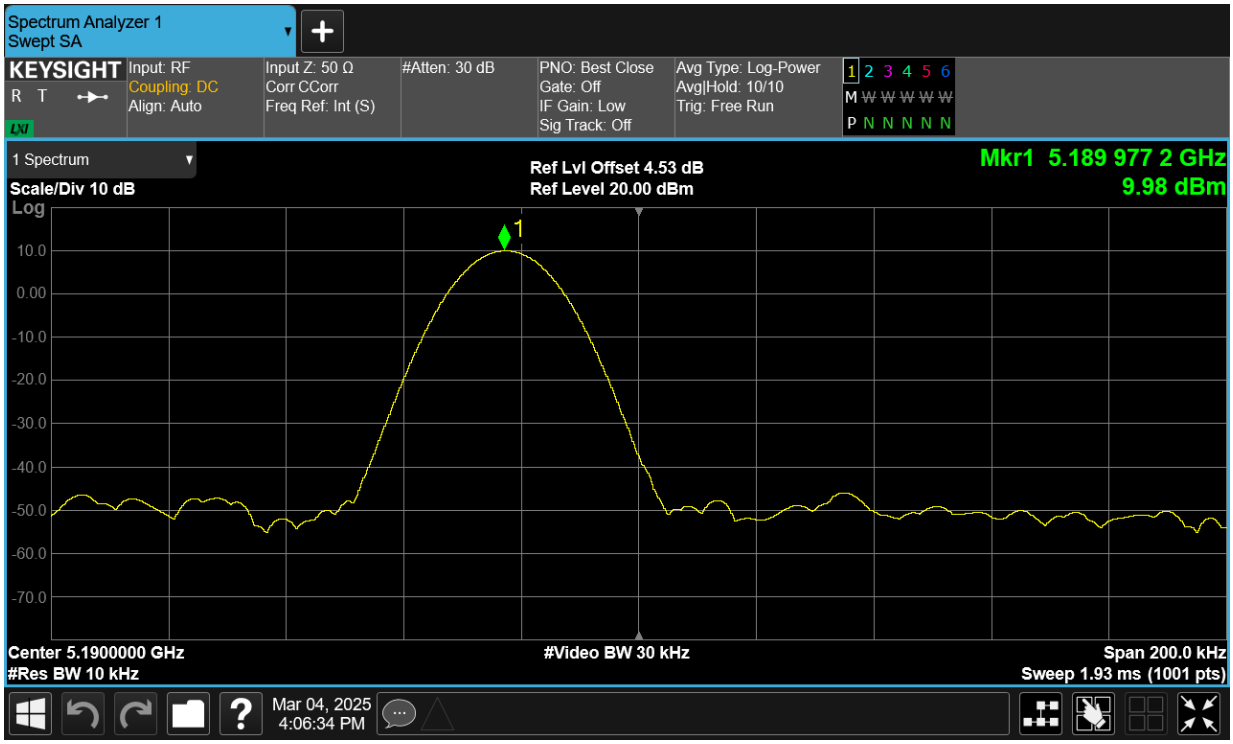
Freq. Stability NVHT ax40 5190MHz Sum



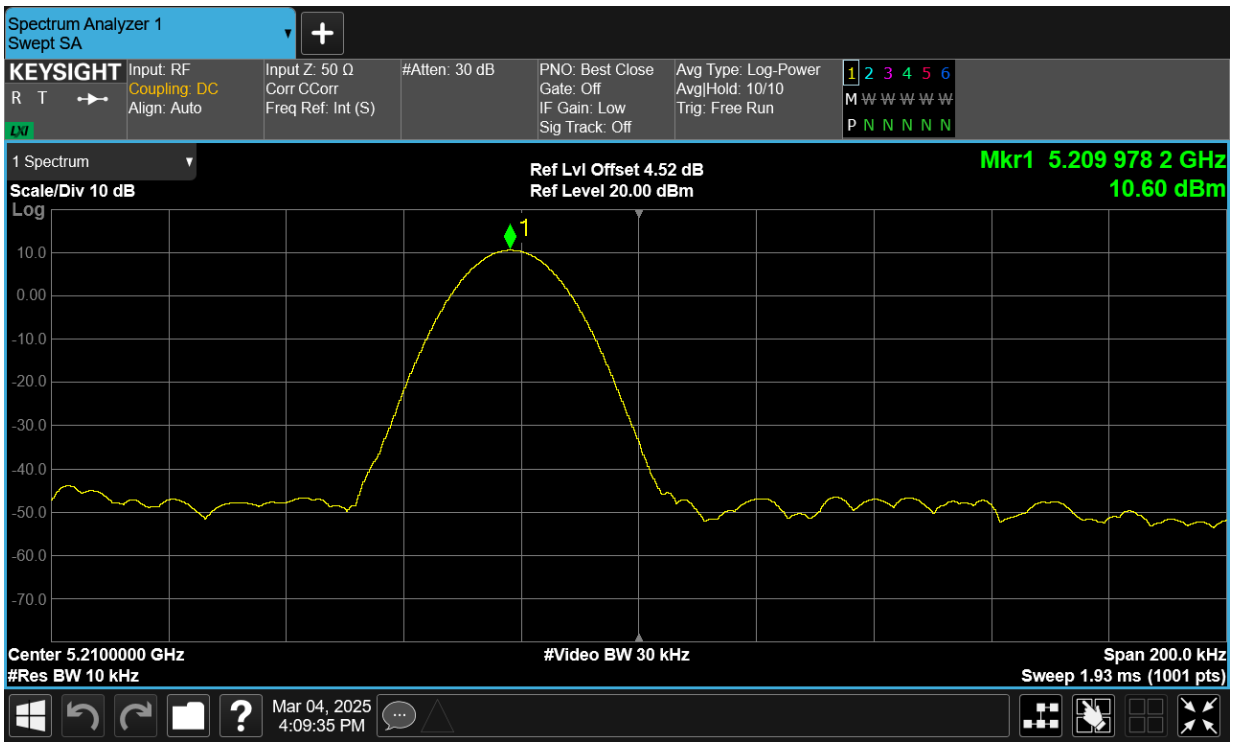
Freq. Stability NVLT ax40 5190MHz Sum



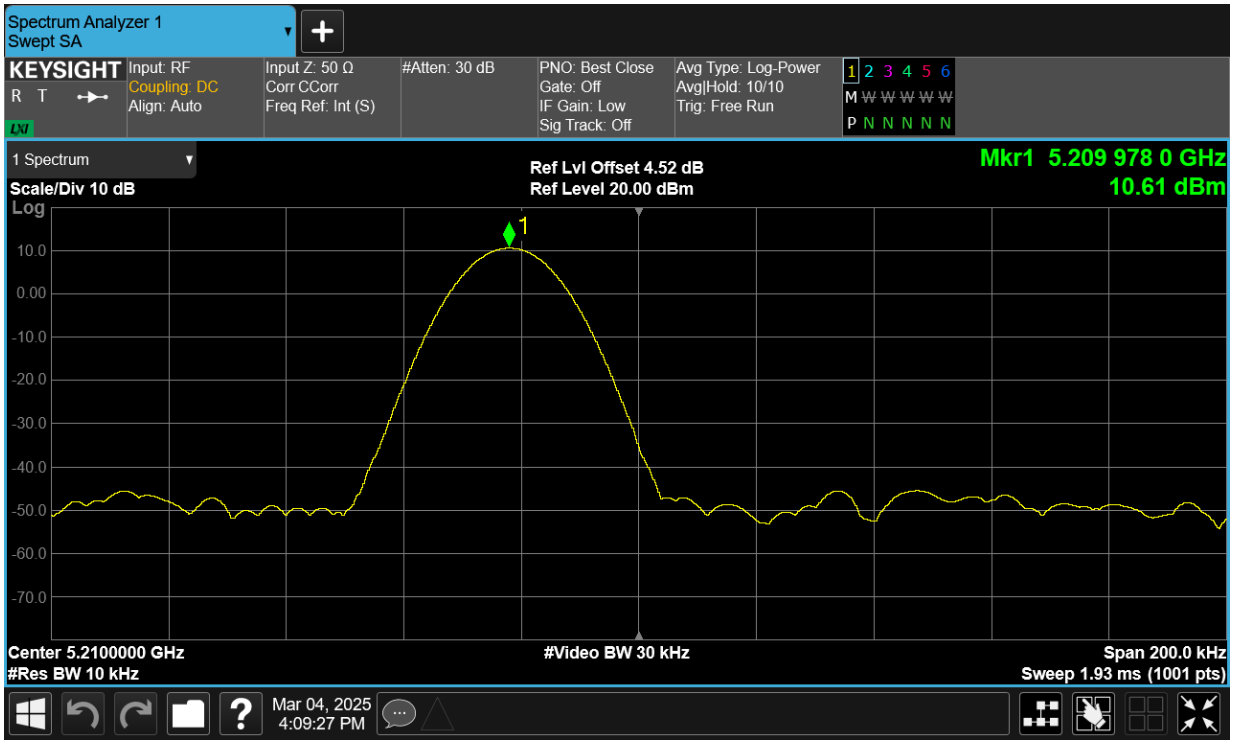
Freq. Stability NVNT ax40 5190MHz Sum



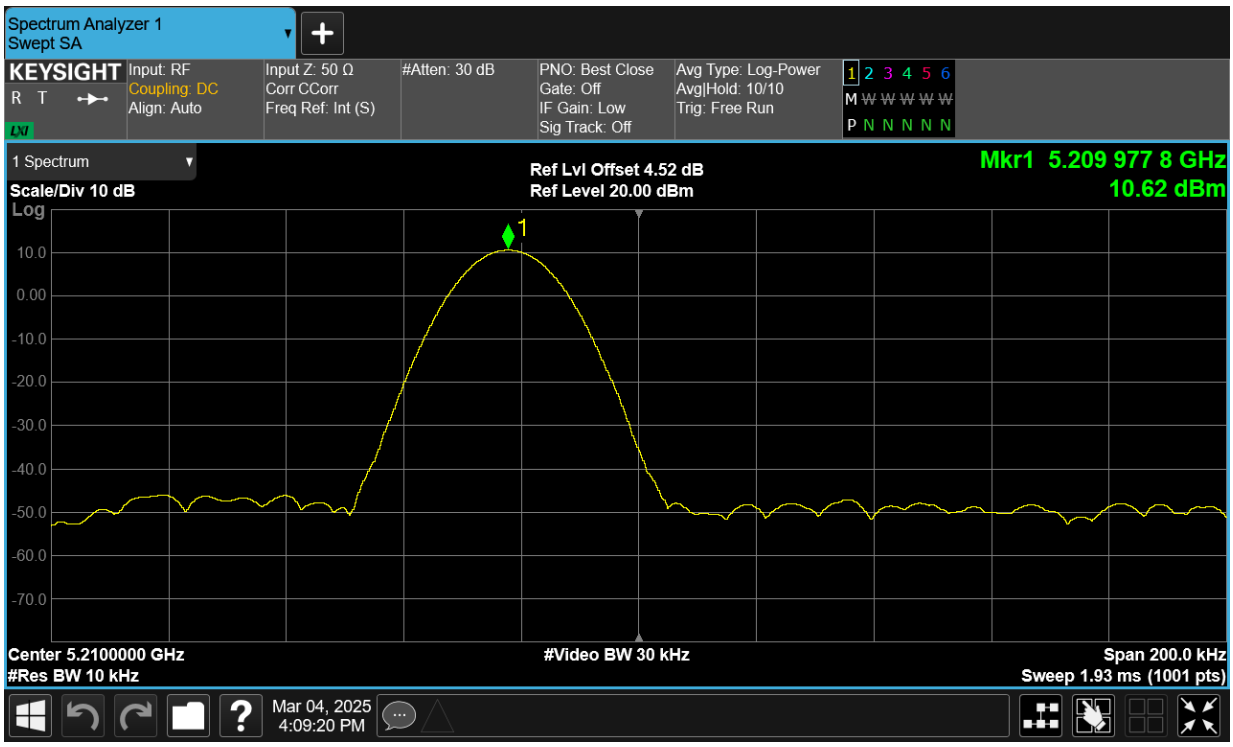
Freq. Stability HVNT ax80 5210MHz Sum



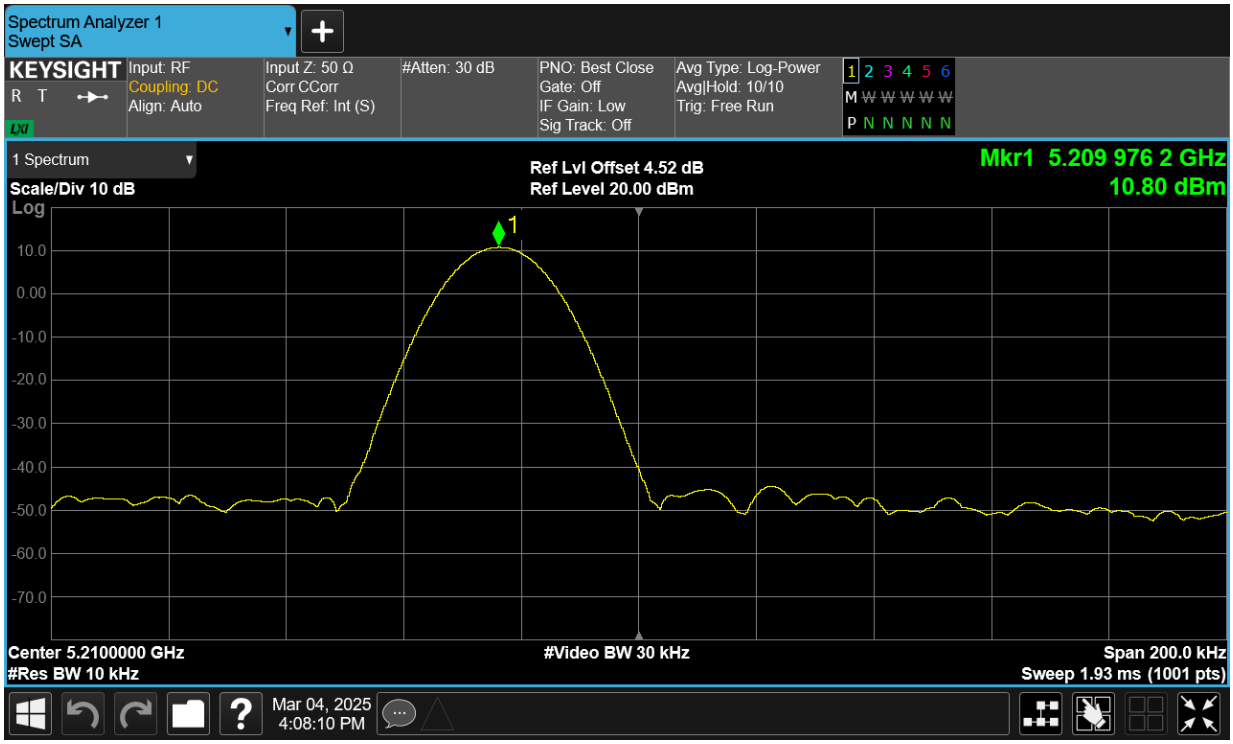
Freq. Stability LVNT ax80 5210MHz Sum



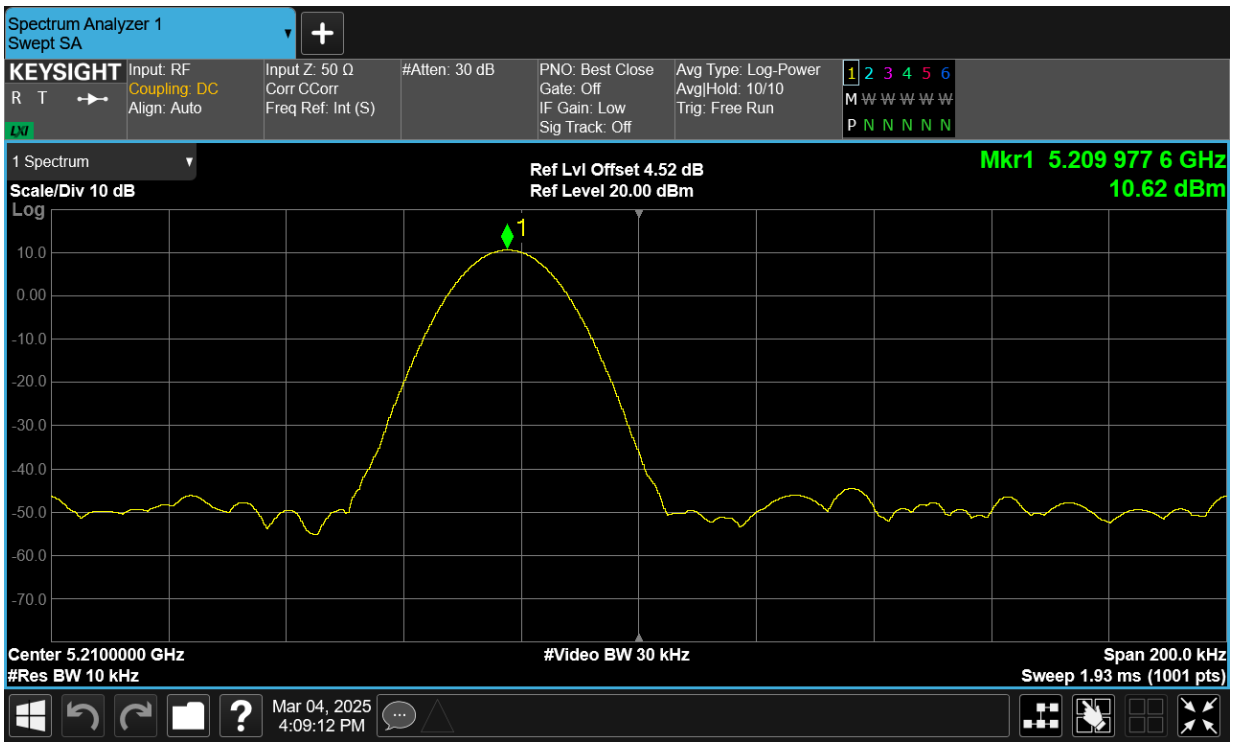
Freq. Stability NVHT ax80 5210MHz Sum



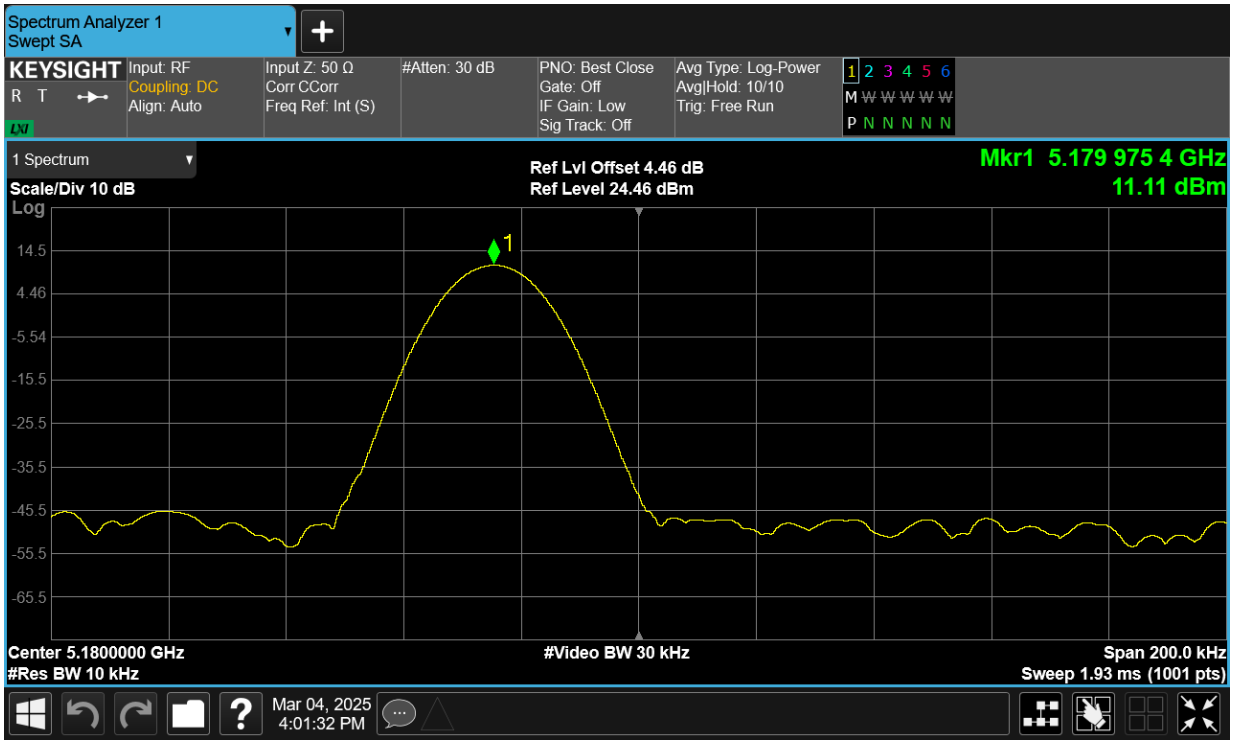
Freq. Stability NVLT ax80 5210MHz Sum



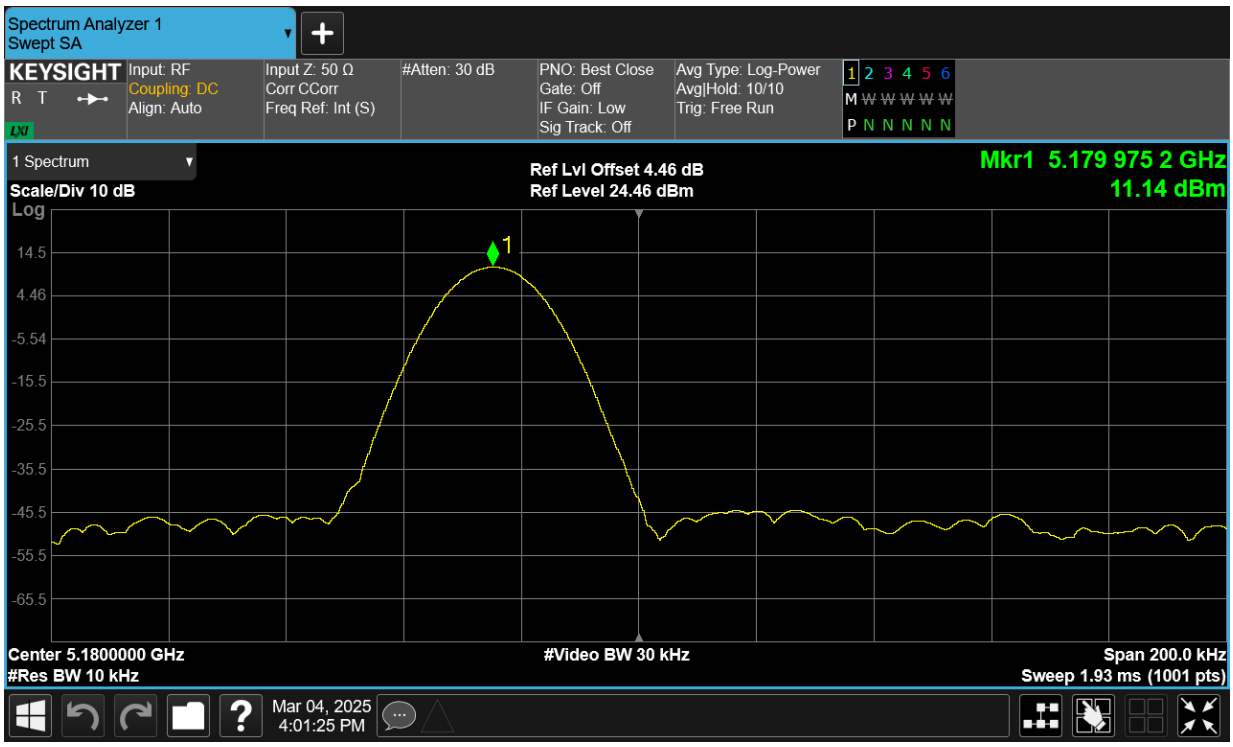
Freq. Stability NVNT ax80 5210MHz Sum



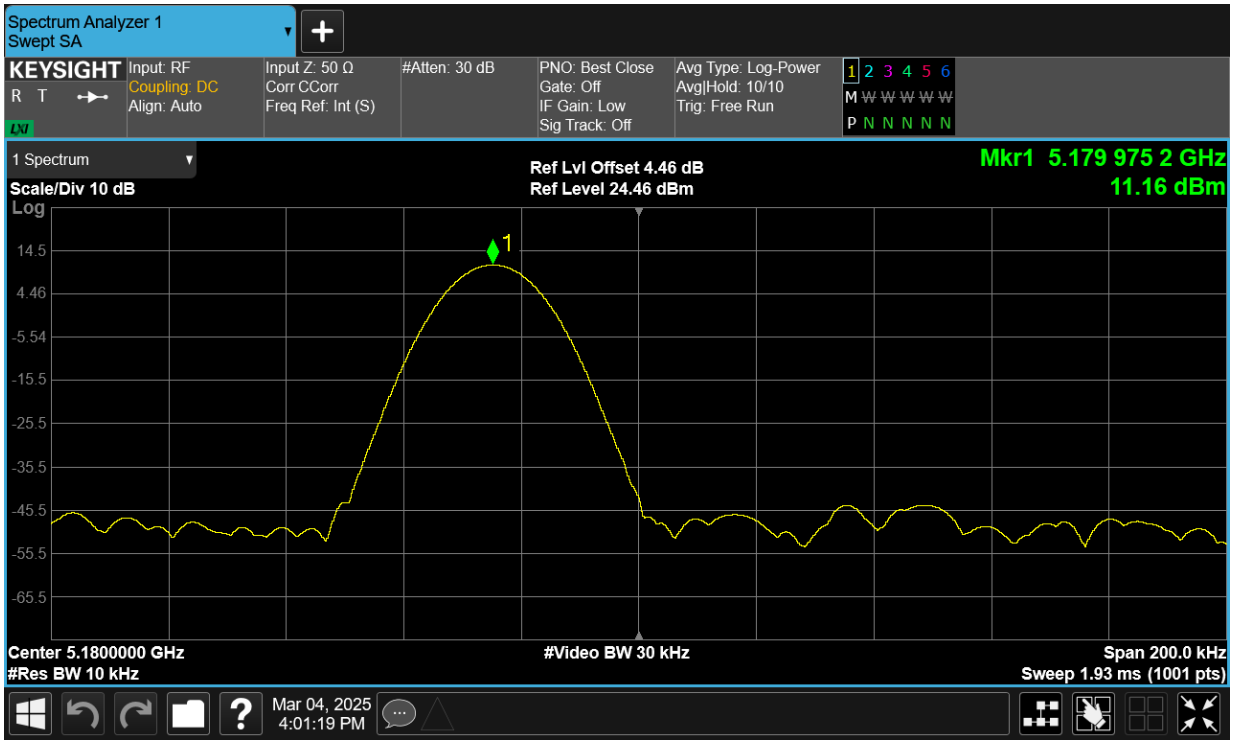
Freq. Stability HVNT n20 5180MHz Sum



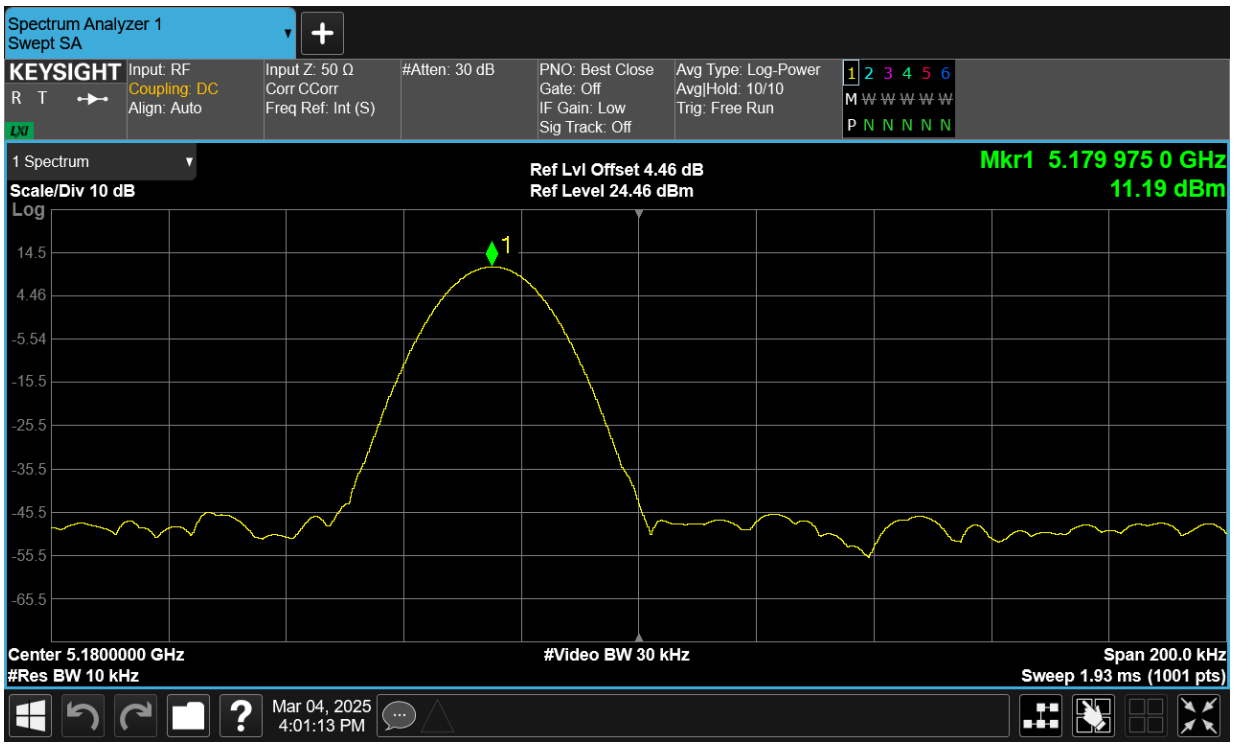
Freq. Stability LVNT n20 5180MHz Sum



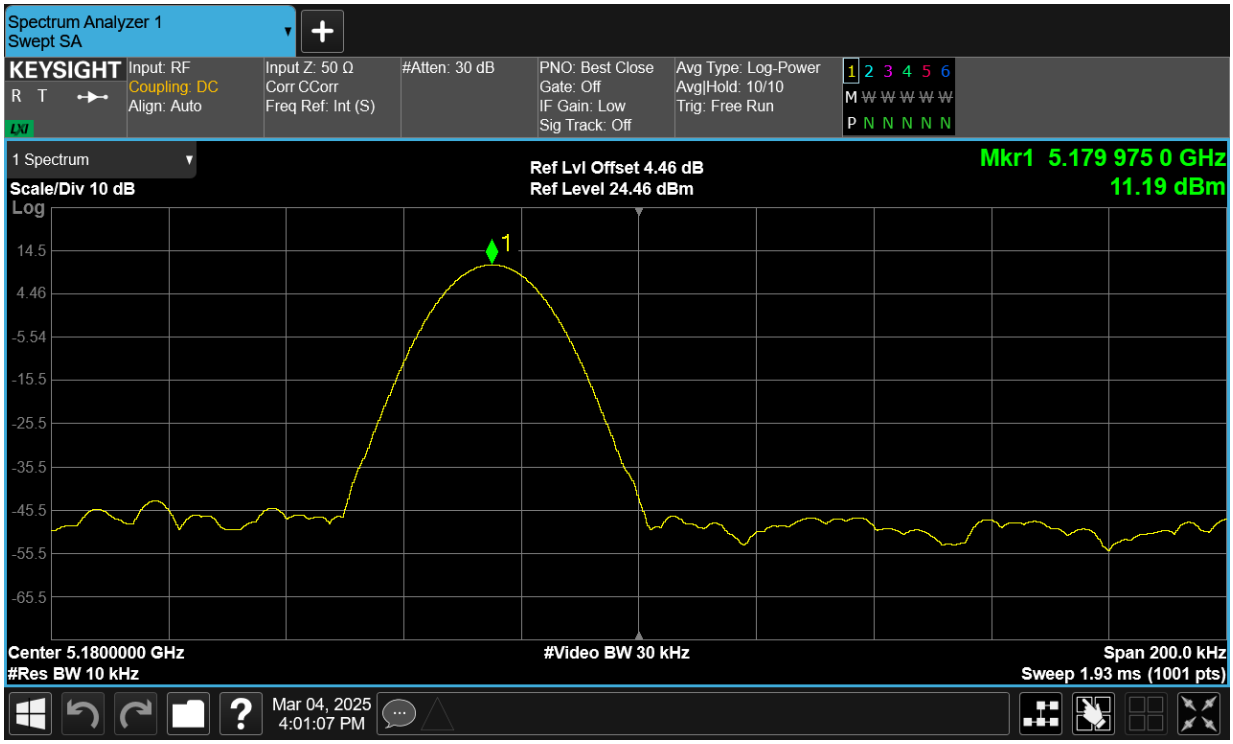
Freq. Stability NVHT n20 5180MHz Sum



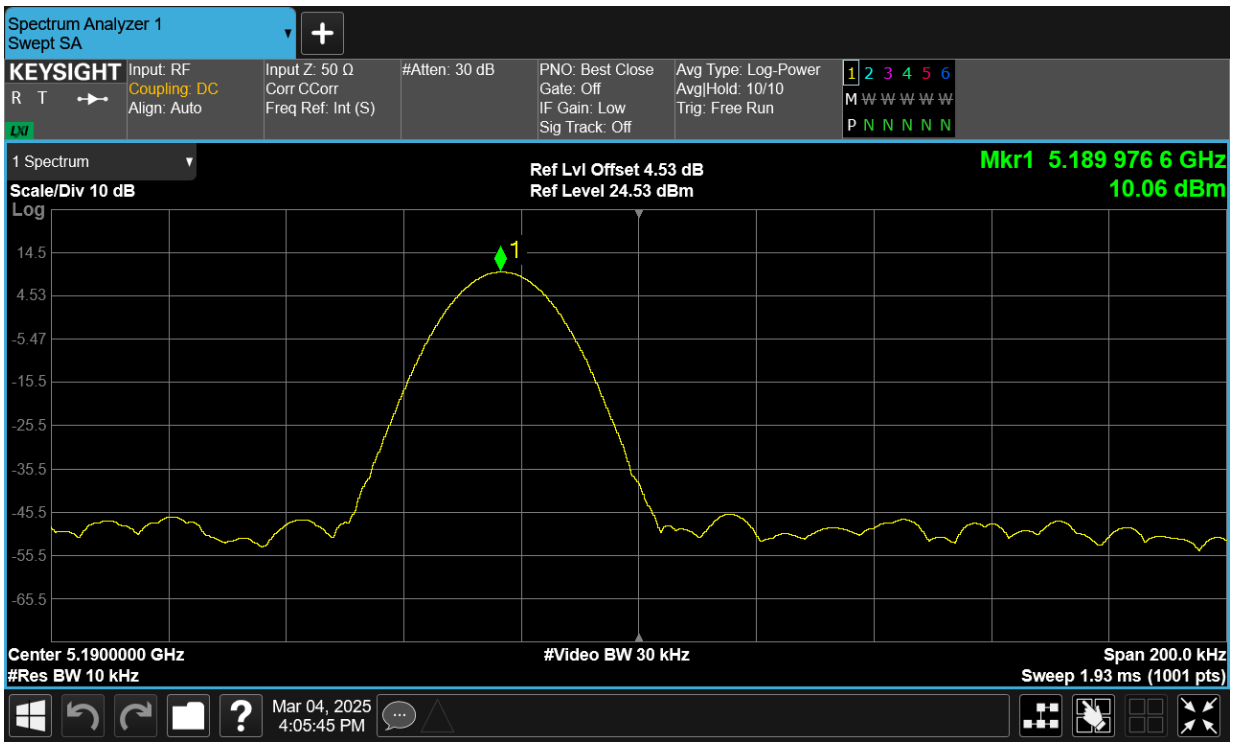
Freq. Stability NVLT n20 5180MHz Sum



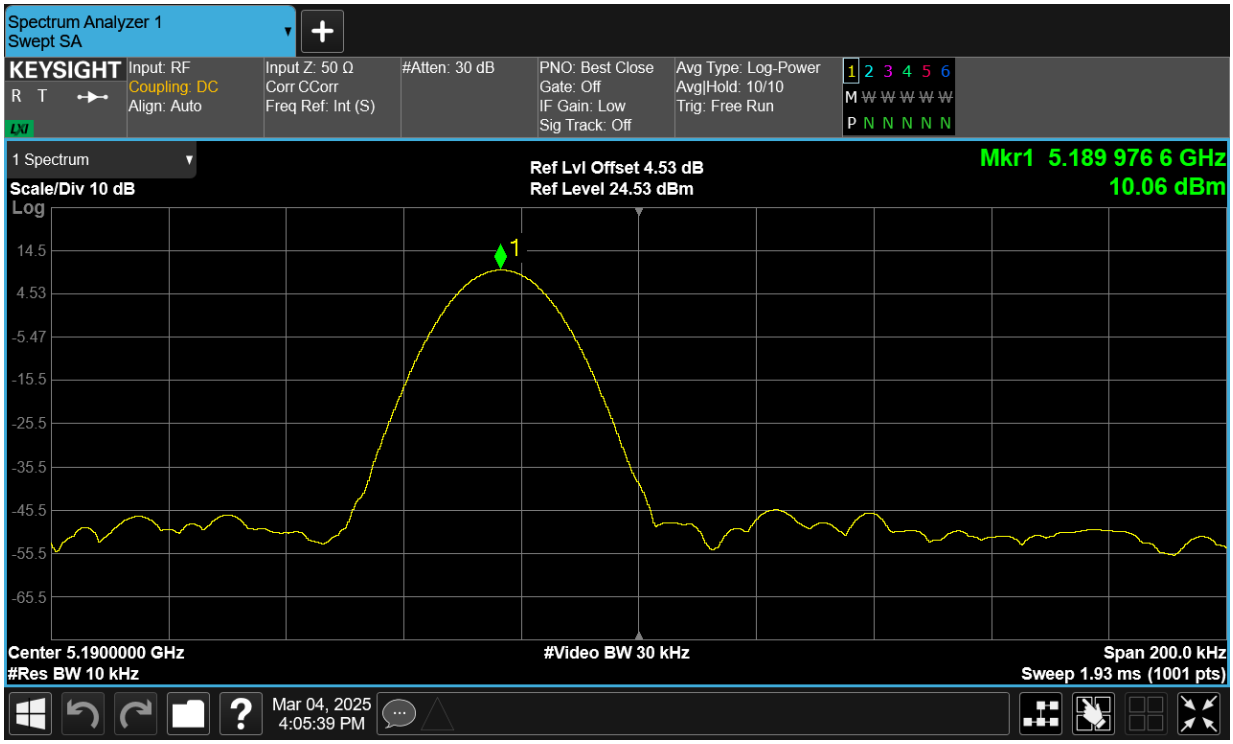
Freq. Stability NVNT n20 5180MHz Sum



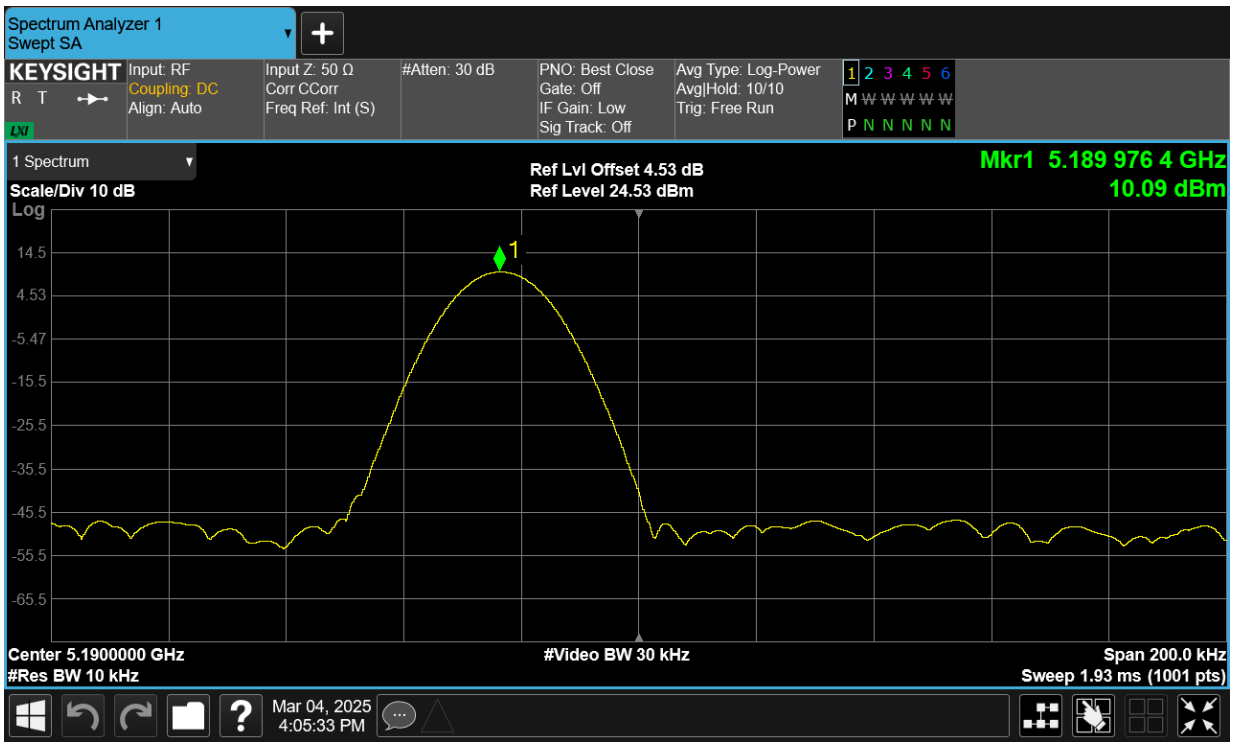
Freq. Stability HVNT n40 5190MHz Sum



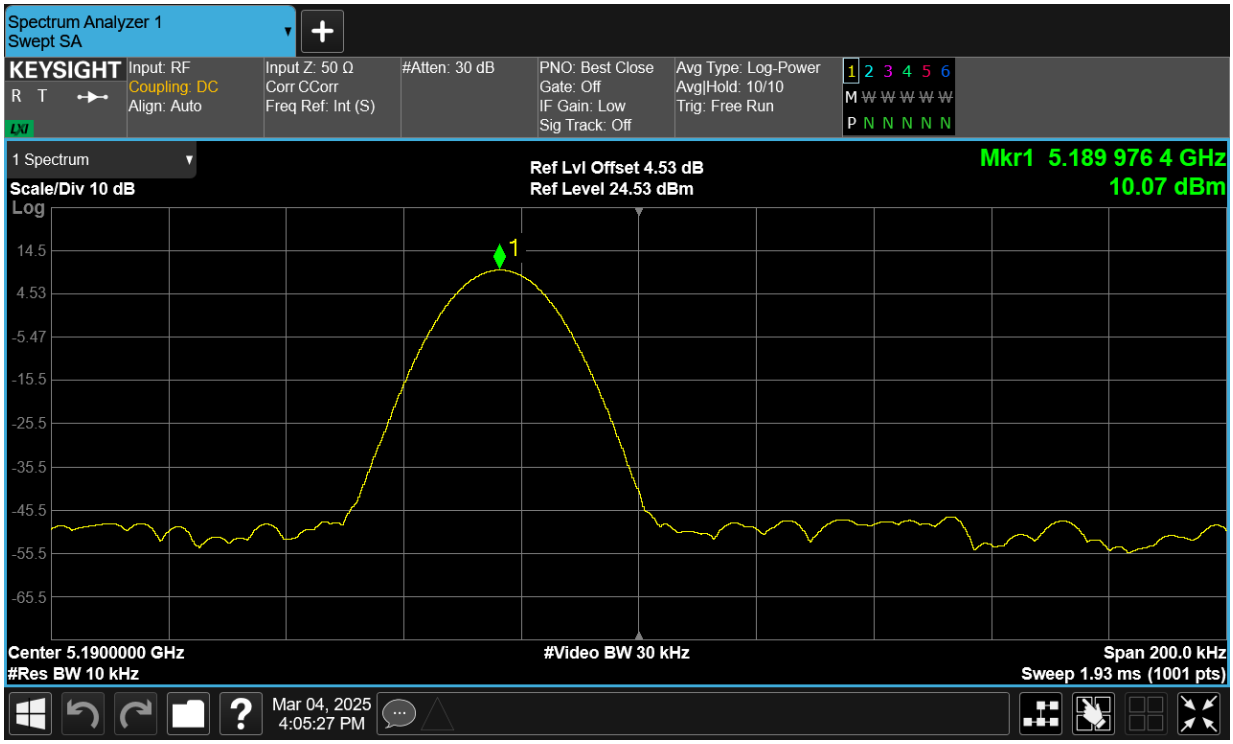
Freq. Stability LVNT n40 5190MHz Sum



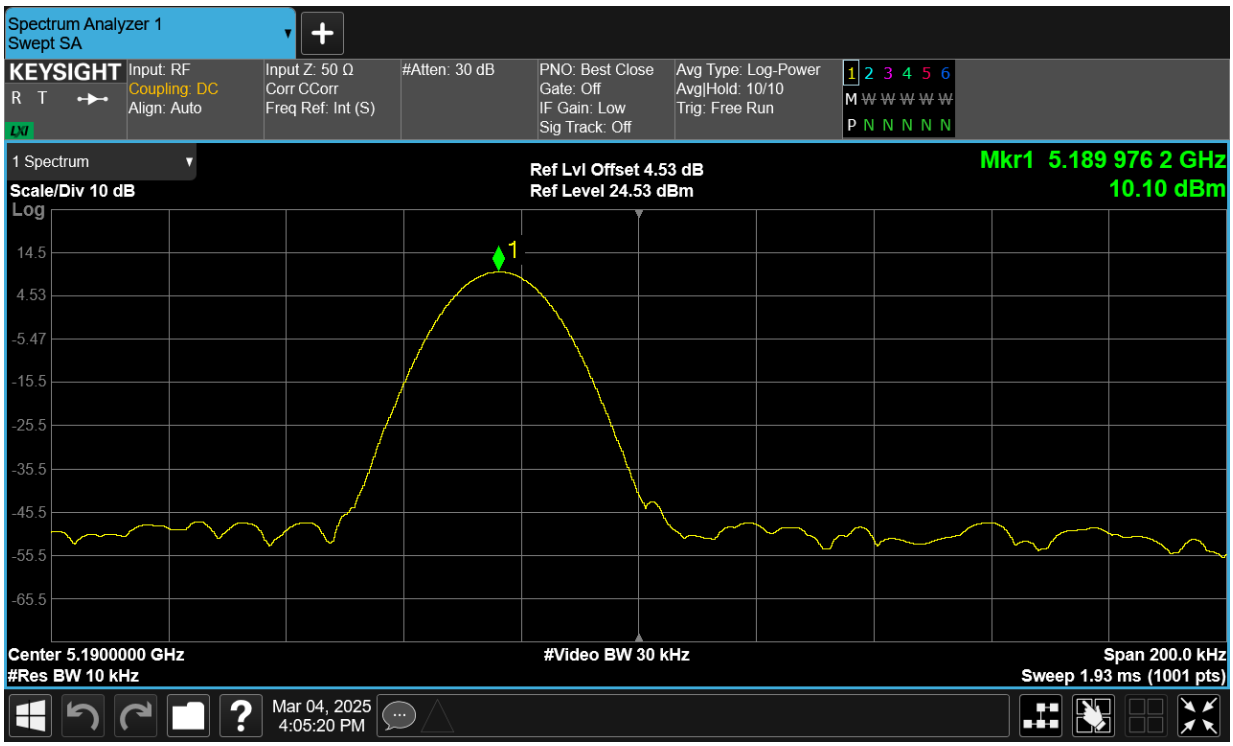
Freq. Stability NVHT n40 5190MHz Sum



Freq. Stability NVLT n40 5190MHz Sum



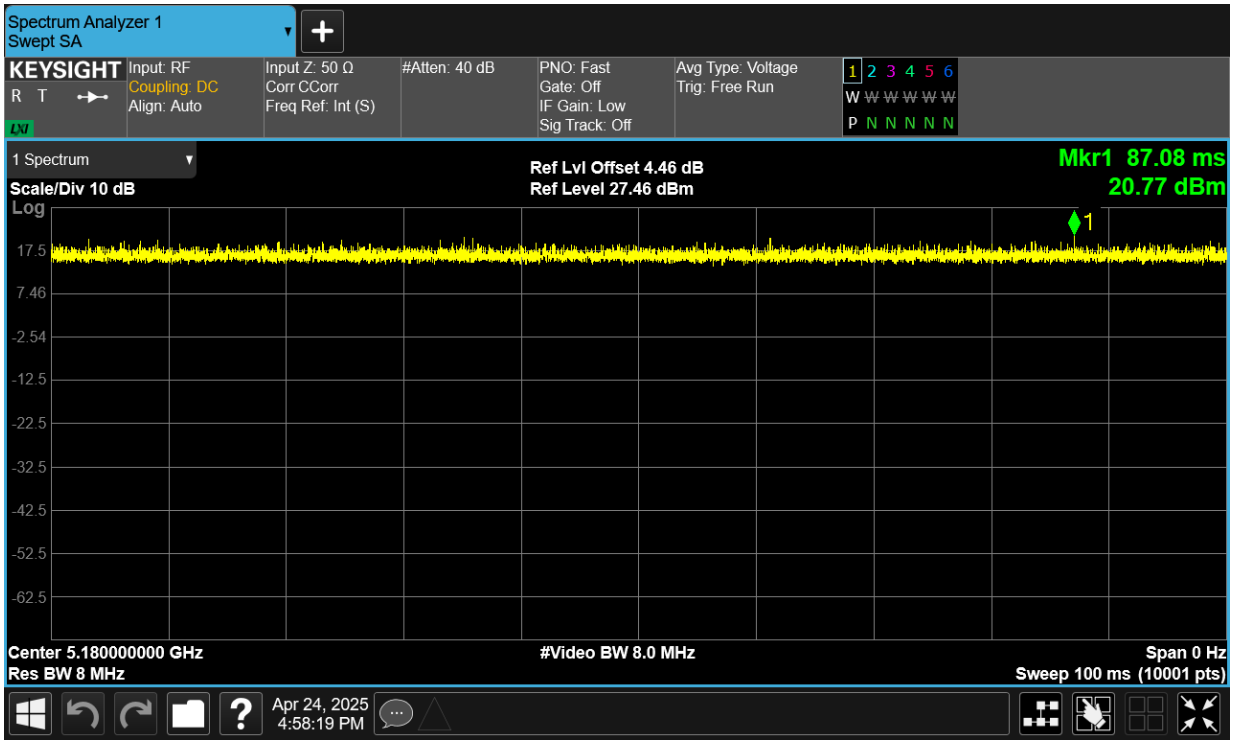
Freq. Stability NVNT n40 5190MHz Sum



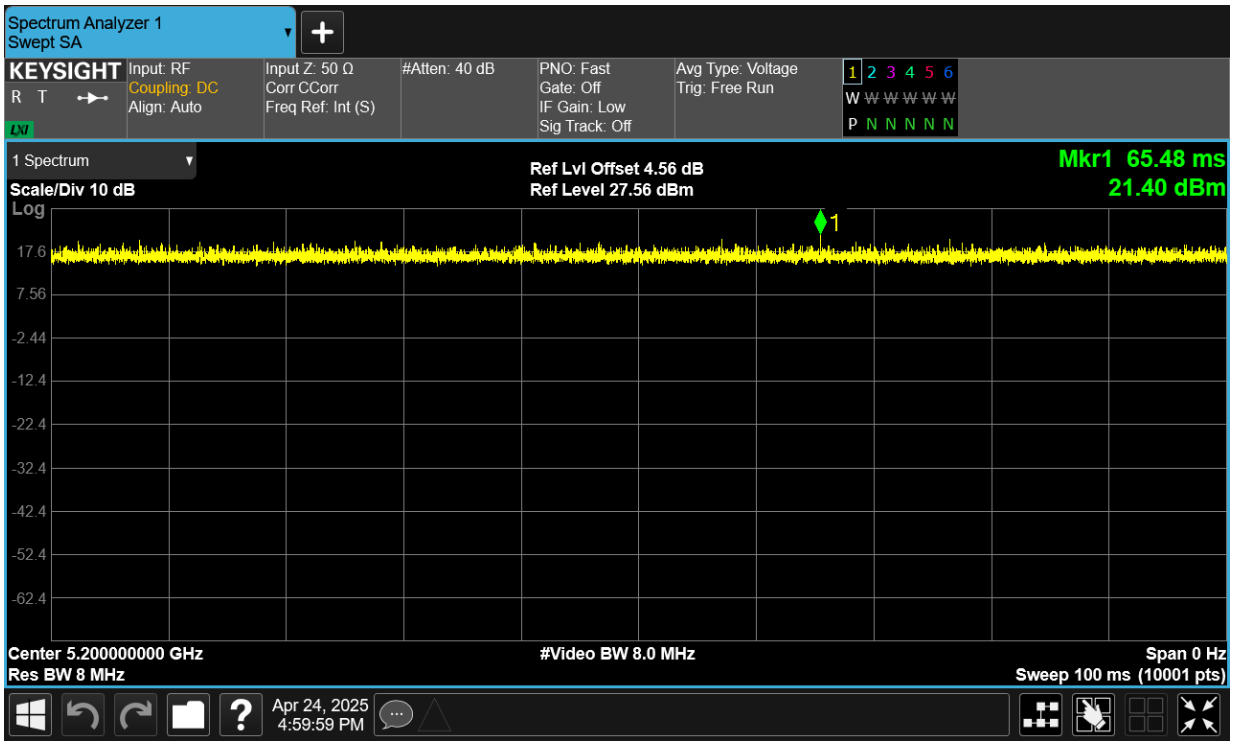
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	100	0
NVNT	a	5200	Ant1	100	0
NVNT	a	5240	Ant1	100	0
NVNT	a	5180	Ant2	100	0
NVNT	a	5200	Ant2	100	0
NVNT	a	5240	Ant2	100	0
NVNT	ac20	5180	Sum	100	0
NVNT	ac20	5200	Sum	100	0
NVNT	ac20	5240	Sum	100	0
NVNT	ac40	5190	Sum	100	0
NVNT	ac40	5230	Sum	100	0
NVNT	ac80	5210	Sum	100	0
NVNT	ax20	5180	Sum	100	0
NVNT	ax20	5200	Sum	100	0
NVNT	ax20	5240	Sum	100	0
NVNT	ax40	5190	Sum	100	0
NVNT	ax40	5230	Sum	100	0
NVNT	ax80	5210	Sum	100	0
NVNT	n20	5180	Sum	100	0
NVNT	n20	5200	Sum	100	0
NVNT	n20	5240	Sum	100	0
NVNT	n40	5190	Sum	100	0
NVNT	n40	5230	Sum	100	0

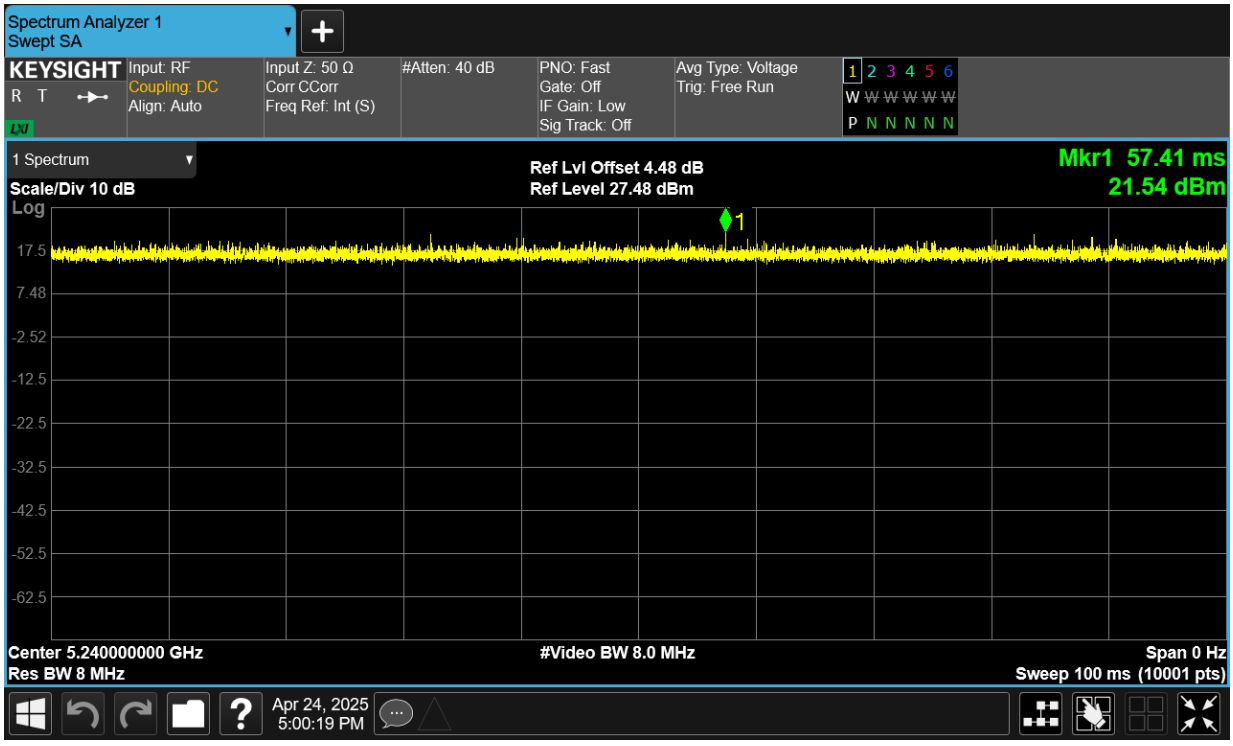
Test Graphs
Duty Cycle NVNT a 5180MHz Ant1



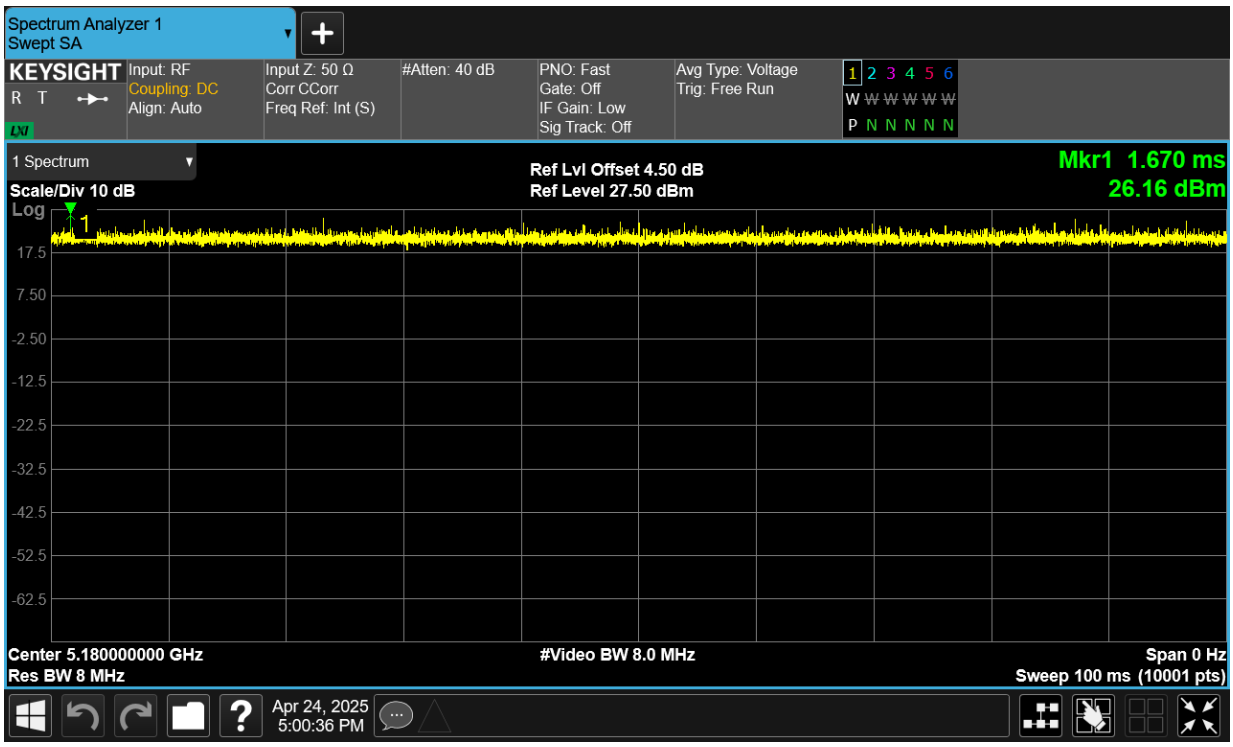
Duty Cycle NVNT a 5200MHz Ant1



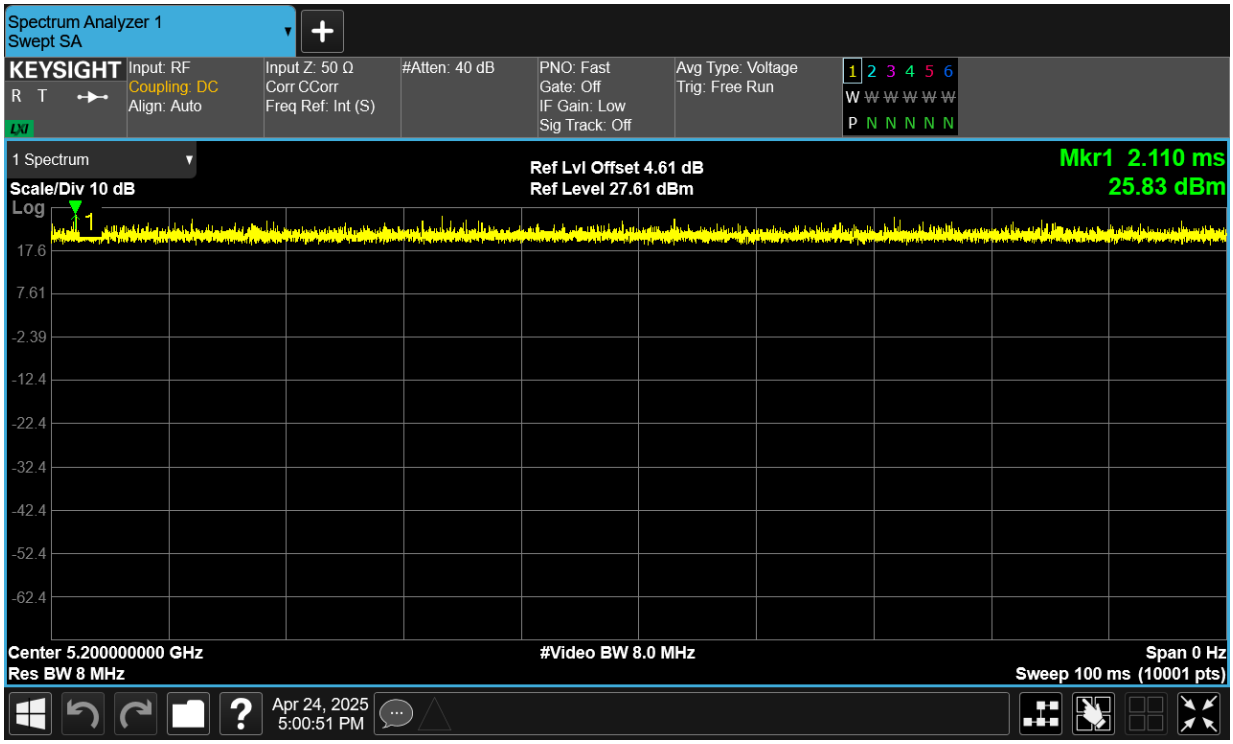
Duty Cycle NVNT a 5240MHz Ant1



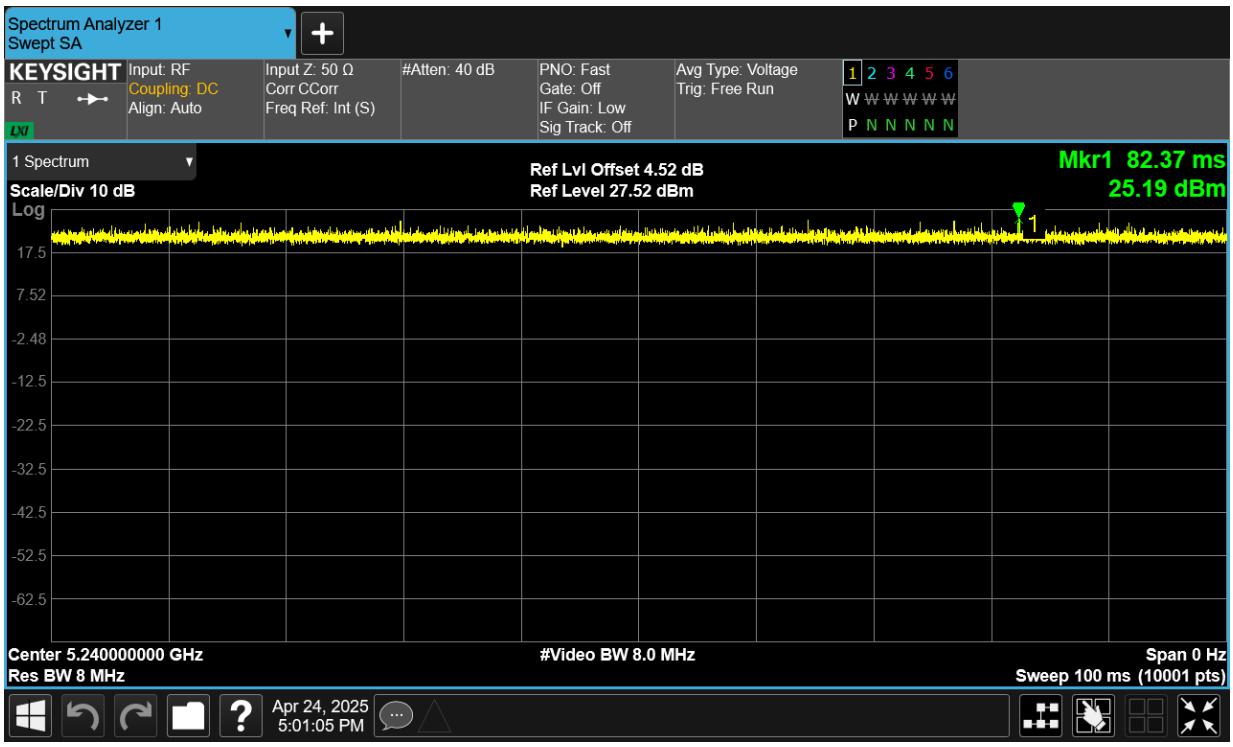
Duty Cycle NVNT a 5180MHz Ant2



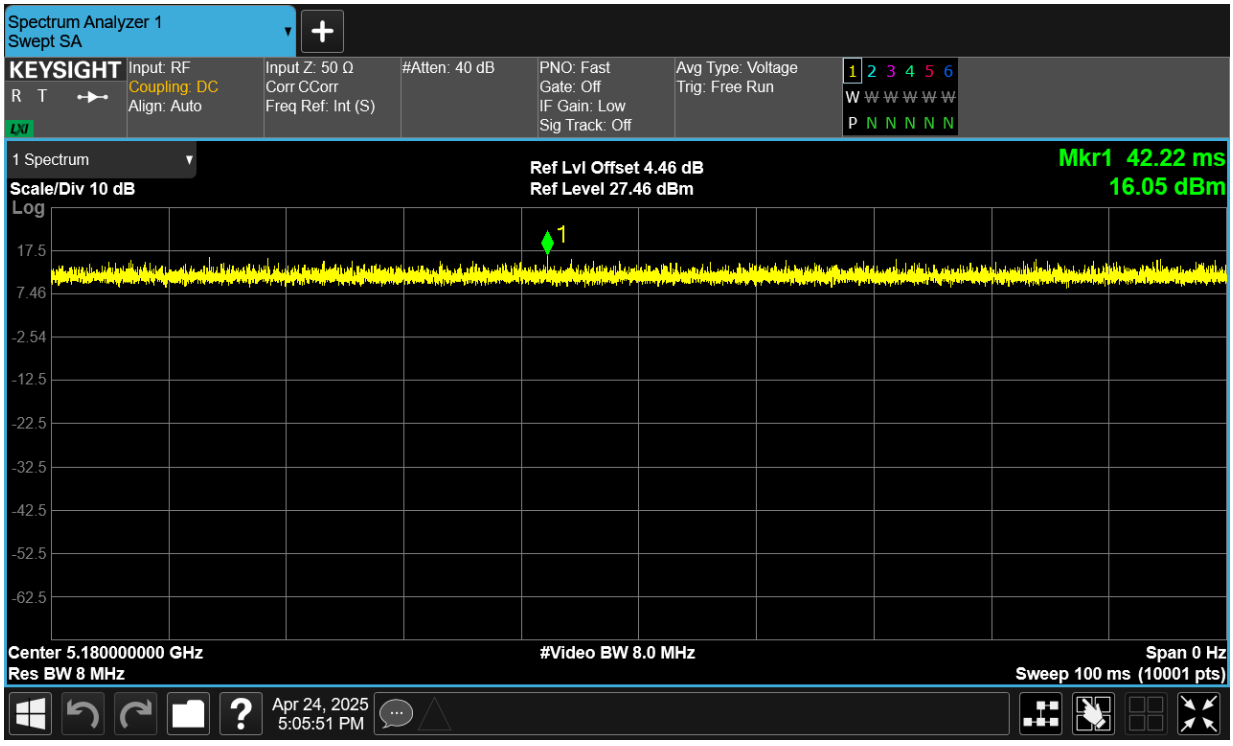
Duty Cycle NVNT a 5200MHz Ant2



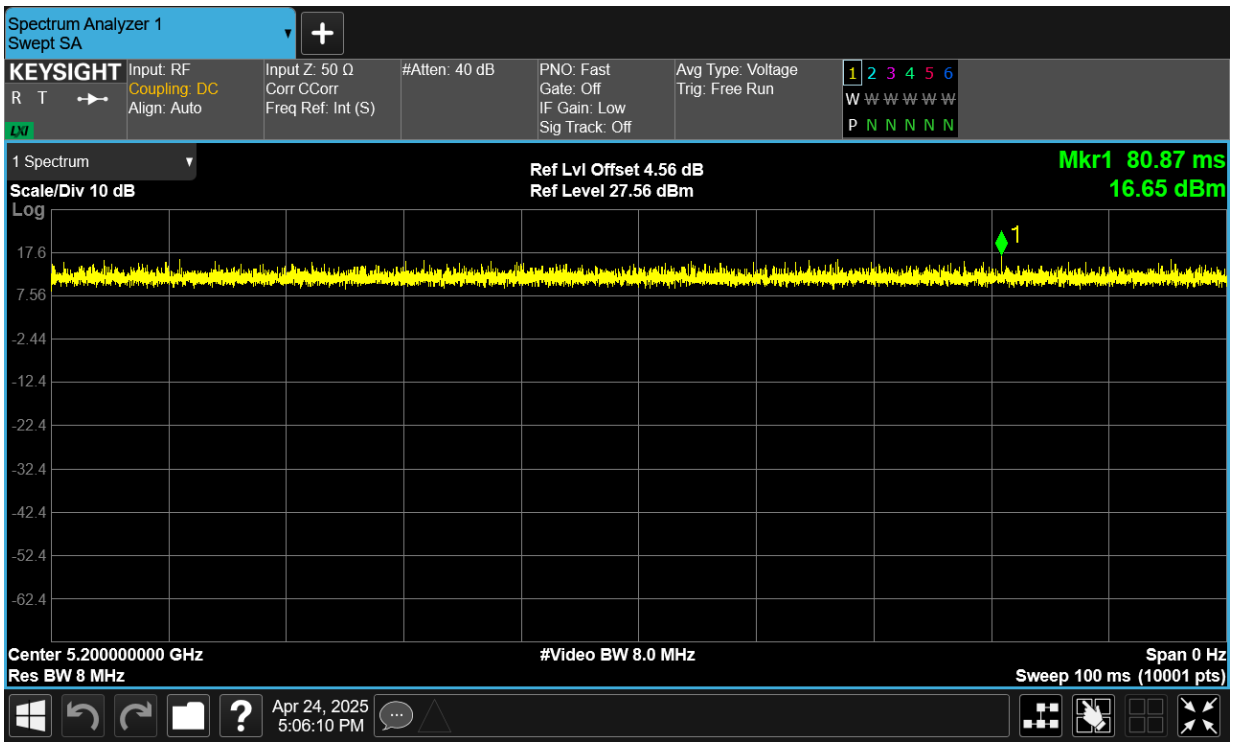
Duty Cycle NVNT a 5240MHz Ant2



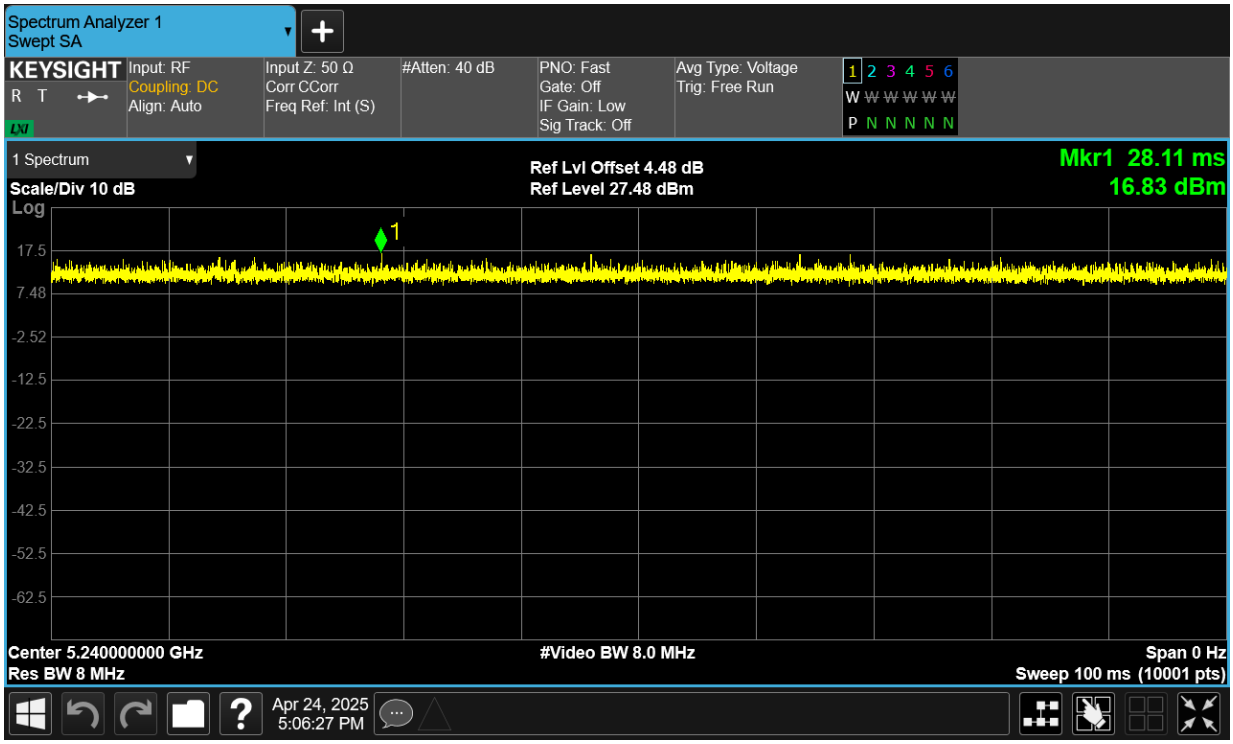
Duty Cycle NVNT ac20 5180MHz Sum



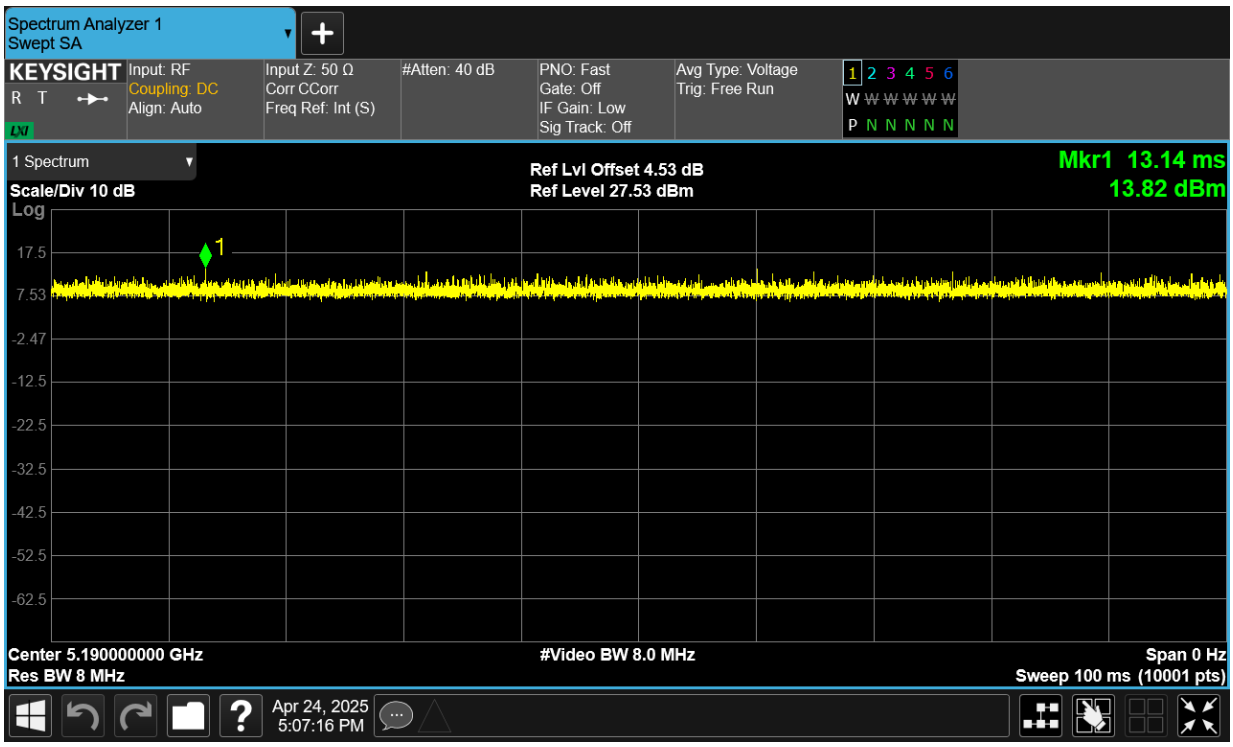
Duty Cycle NVNT ac20 5200MHz Sum



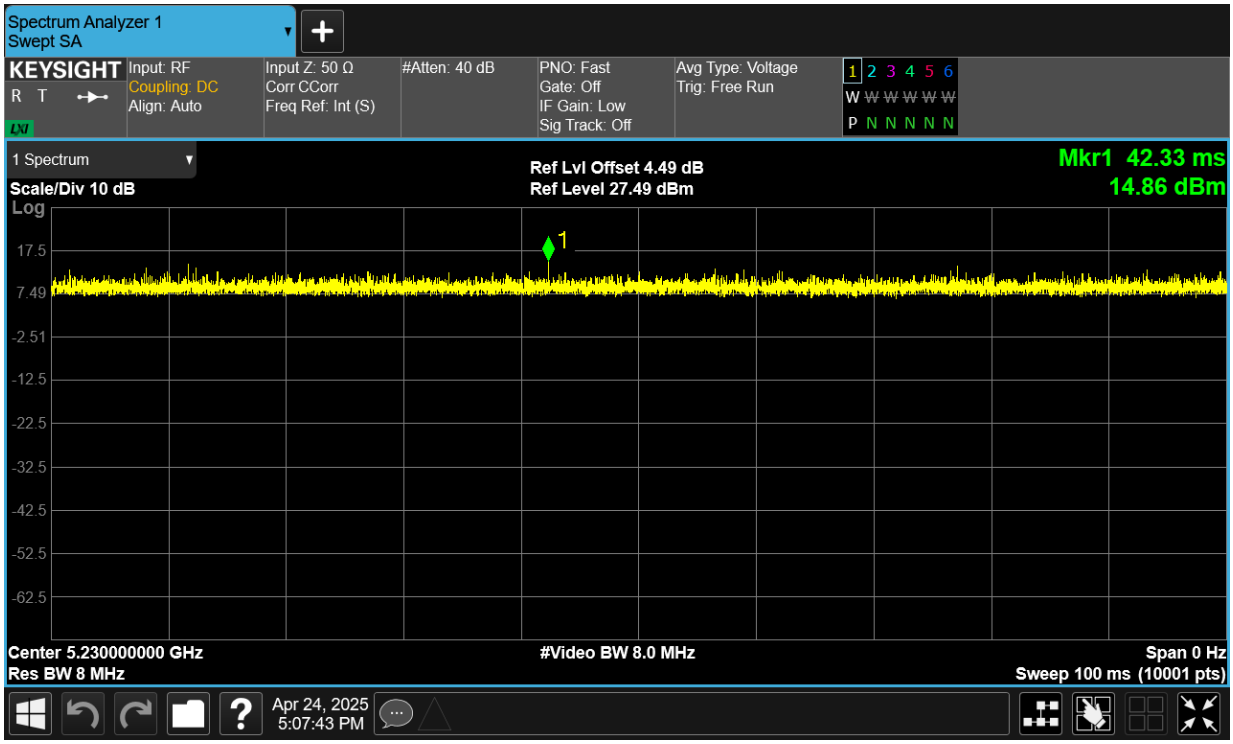
Duty Cycle NVNT ac20 5240MHz Sum



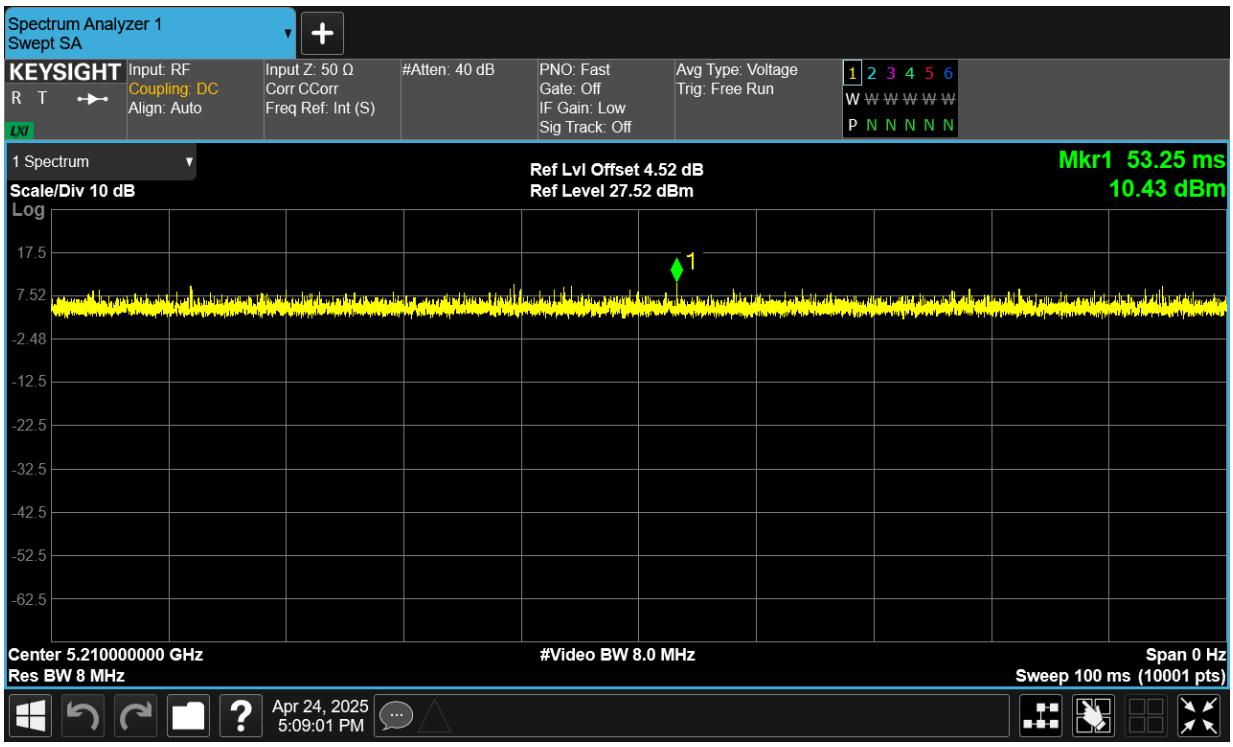
Duty Cycle NVNT ac40 5190MHz Sum



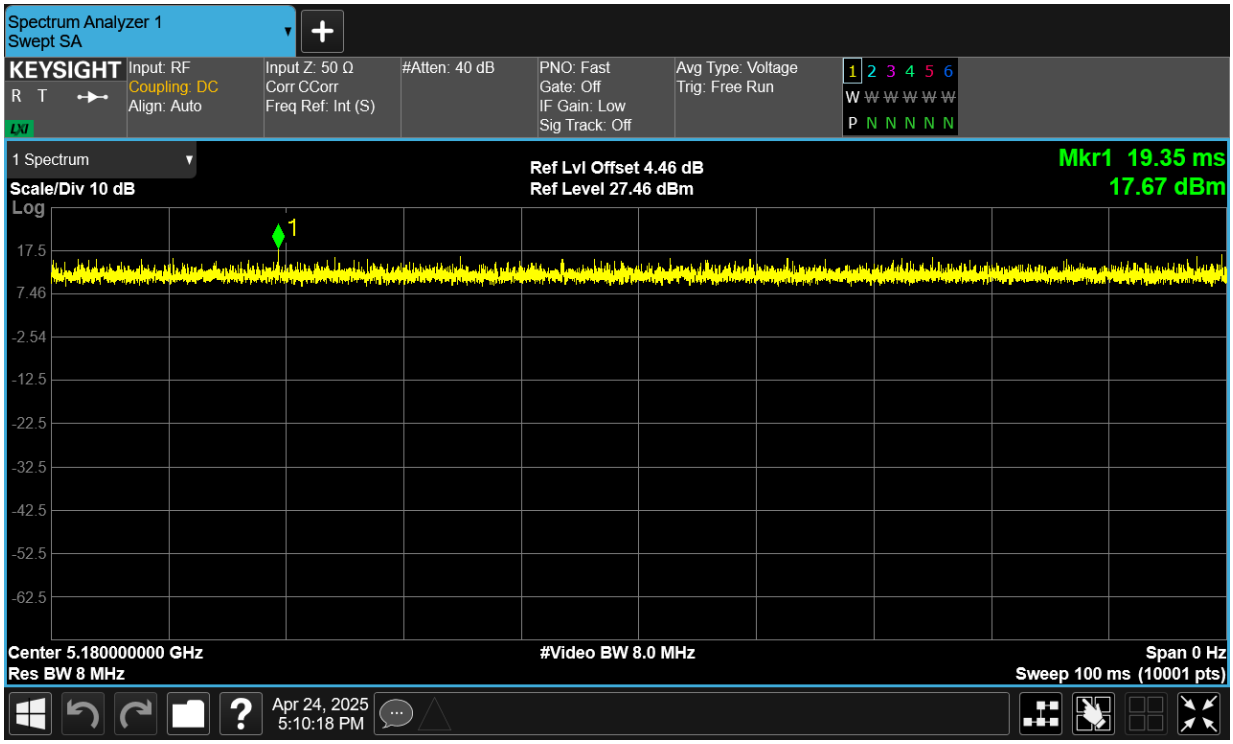
Duty Cycle NVNT ac40 5230MHz Sum



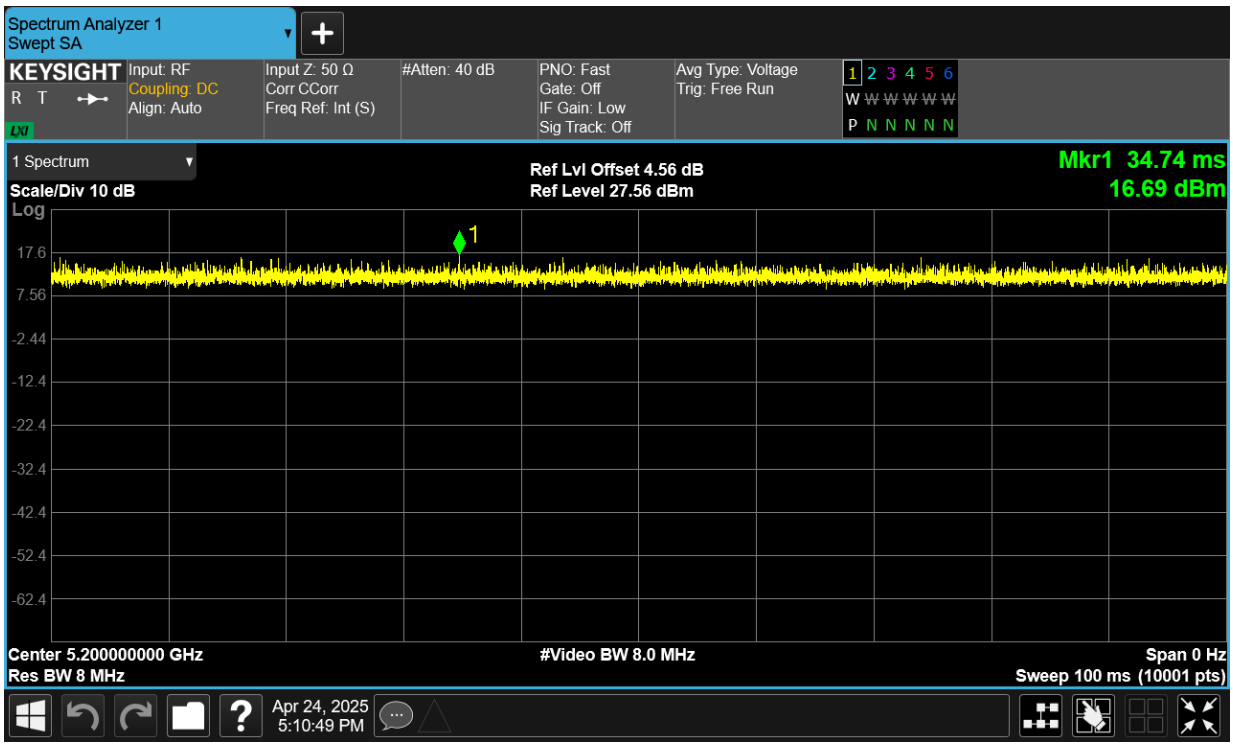
Duty Cycle NVNT ac80 5210MHz Sum



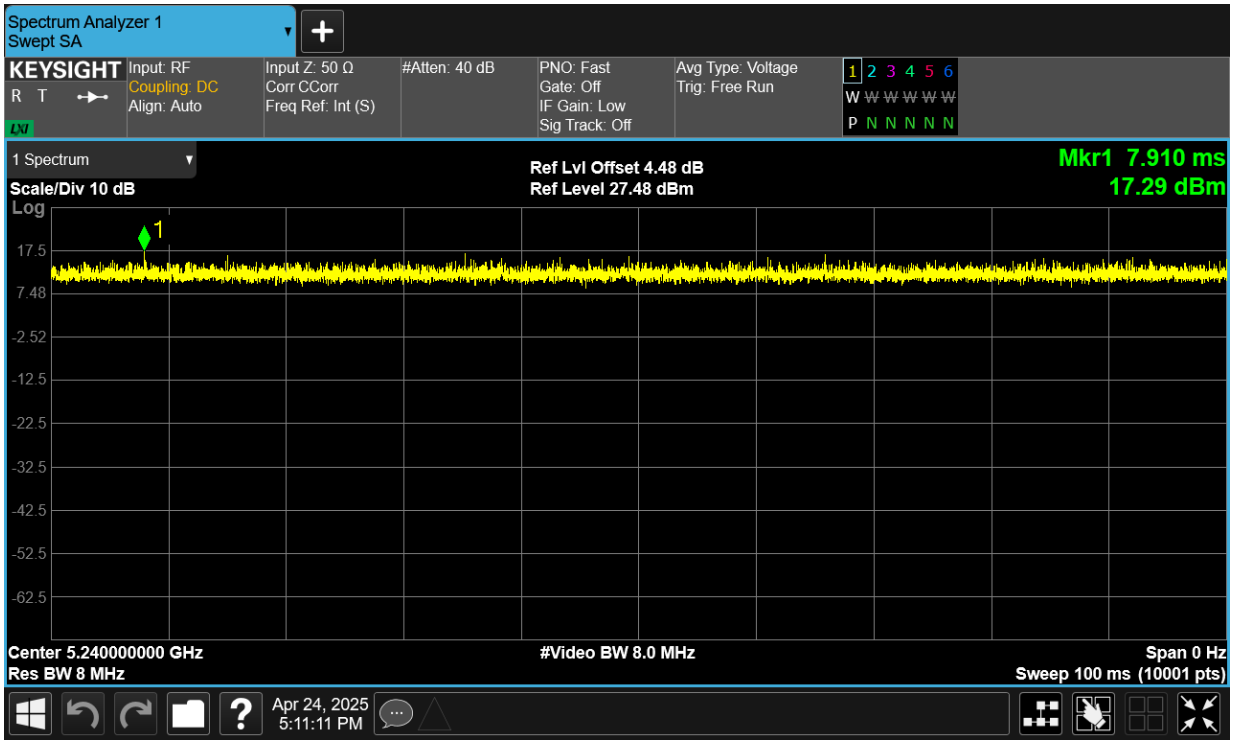
Duty Cycle NVNT ax20 5180MHz Sum



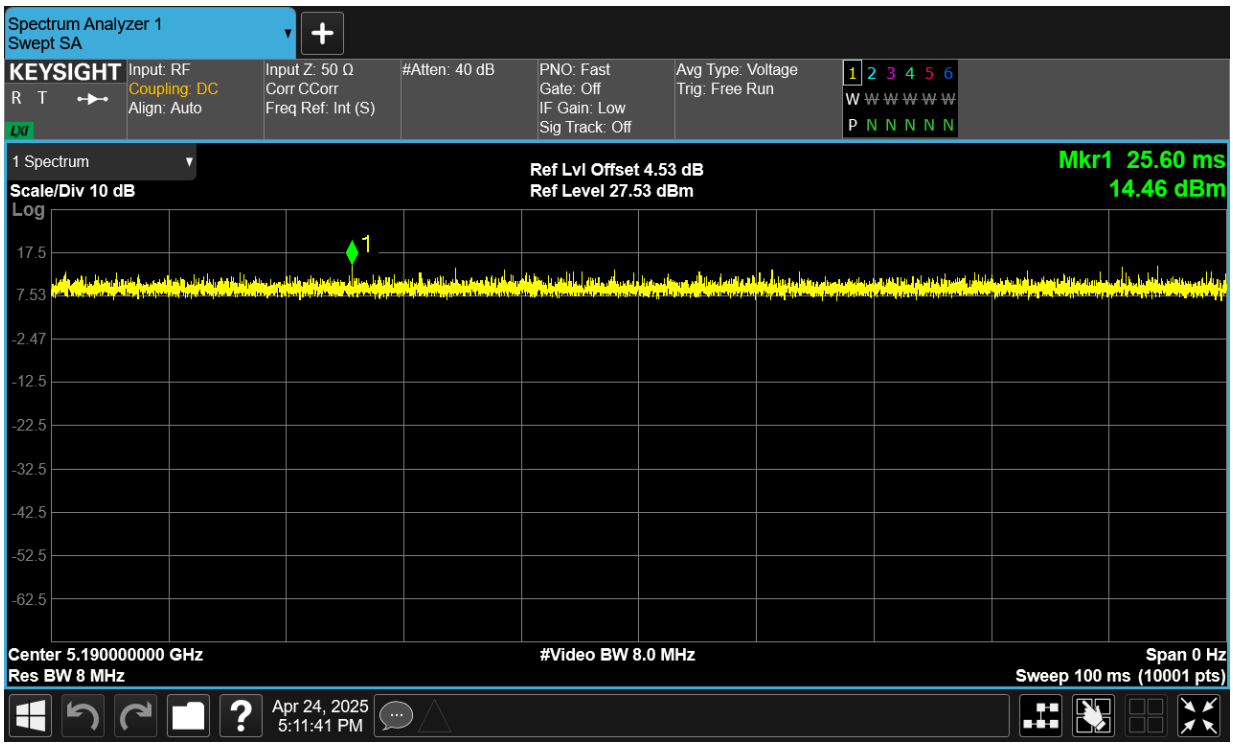
Duty Cycle NVNT ax20 5200MHz Sum



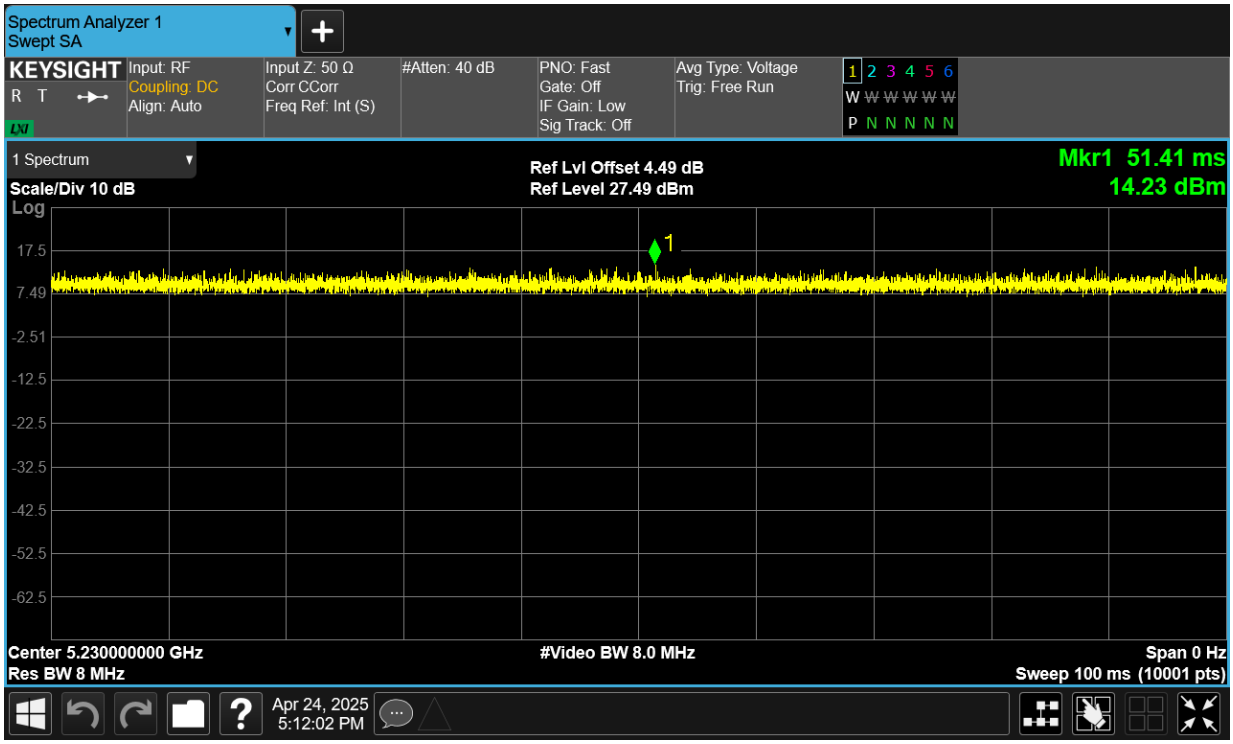
Duty Cycle NVNT ax20 5240MHz Sum



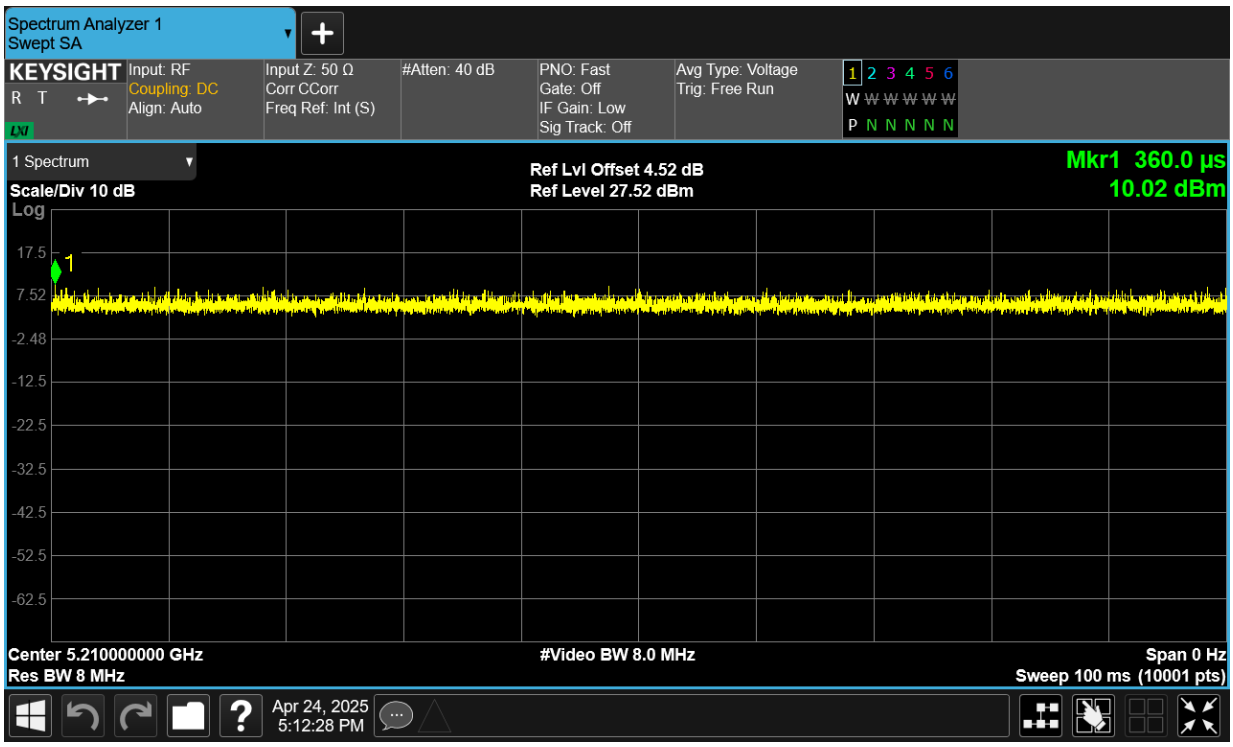
Duty Cycle NVNT ax40 5190MHz Sum



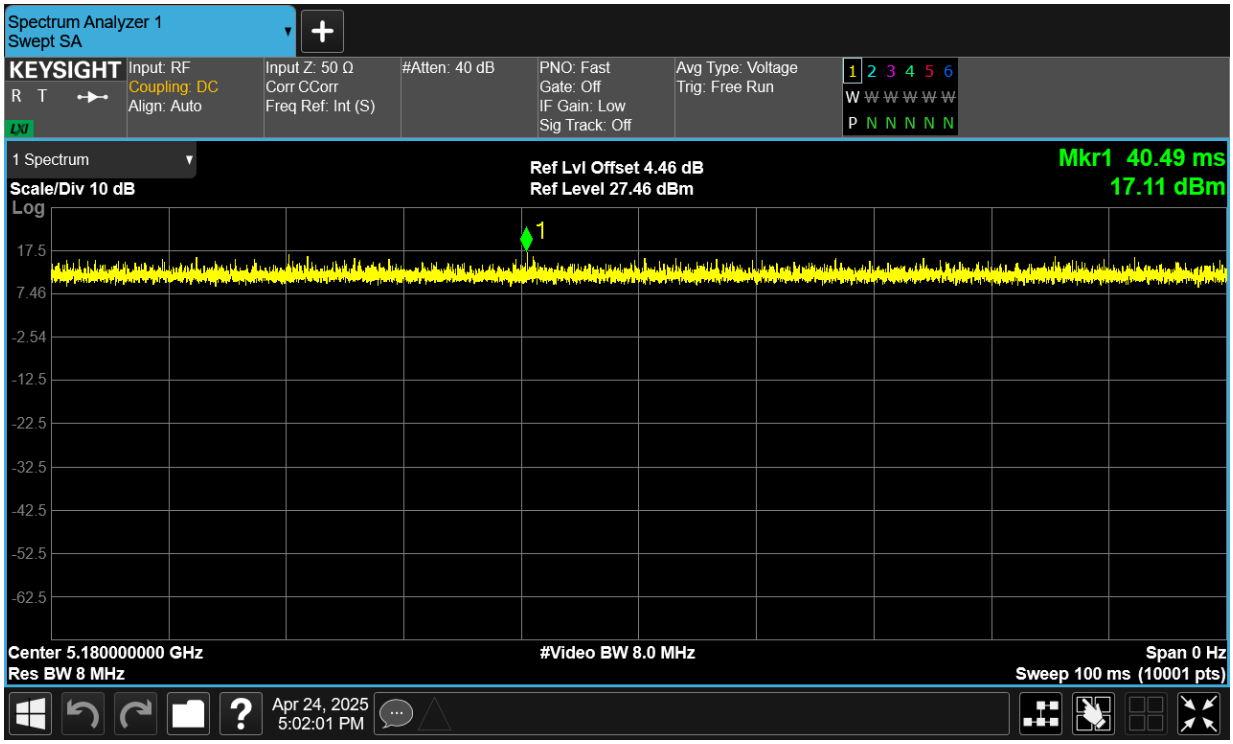
Duty Cycle NVNT ax40 5230MHz Sum



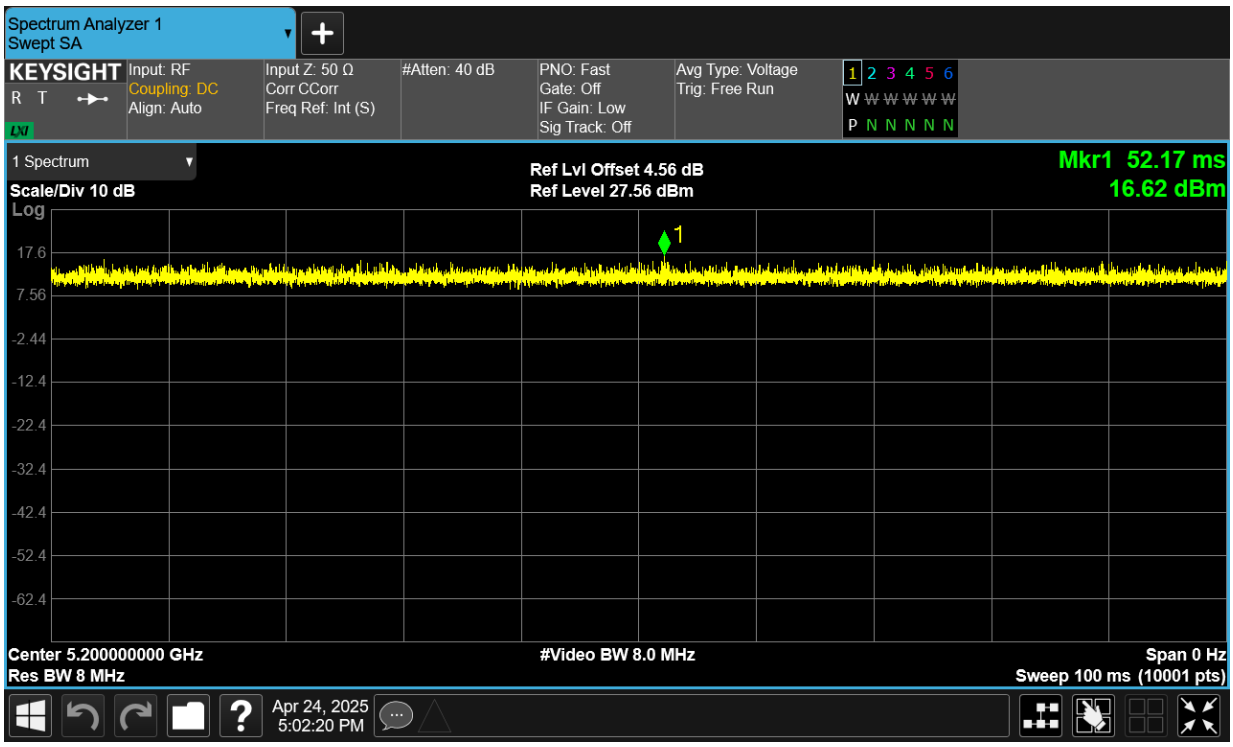
Duty Cycle NVNT ax80 5210MHz Sum



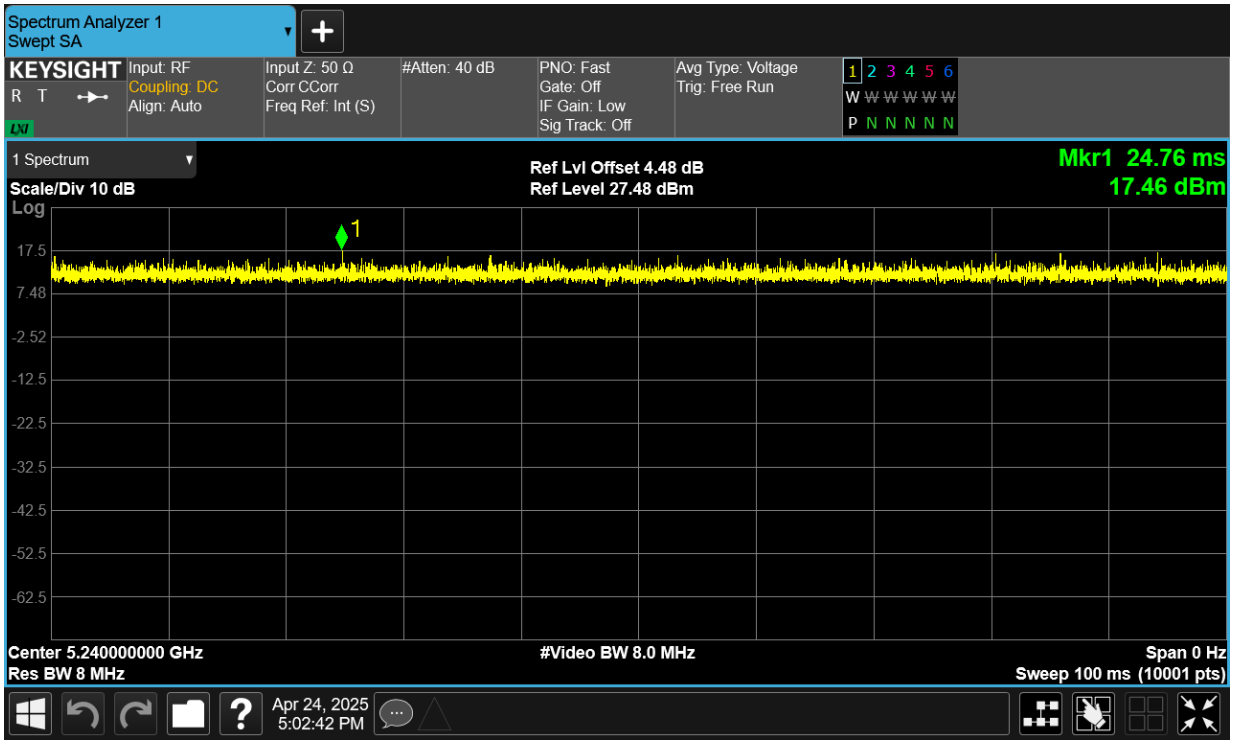
Duty Cycle NVNT n20 5180MHz Sum



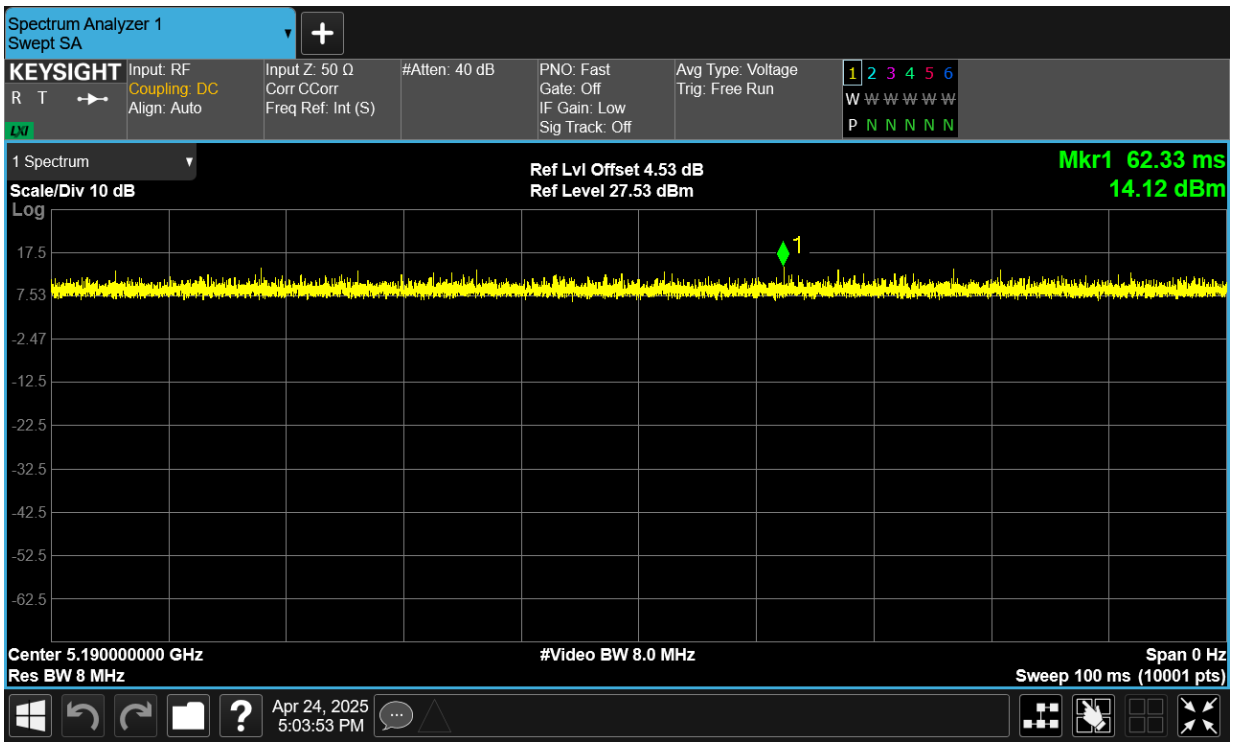
Duty Cycle NVNT n20 5200MHz Sum



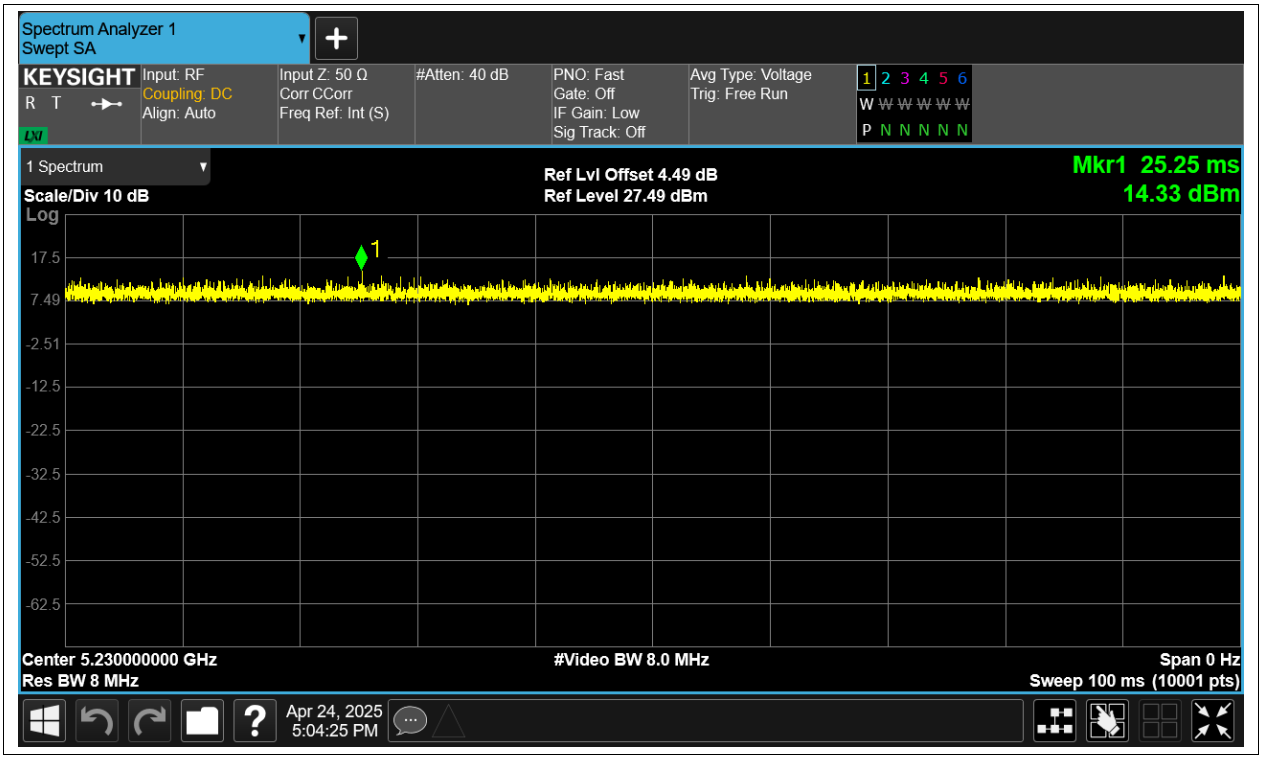
Duty Cycle NVNT n20 5240MHz Sum



Duty Cycle NVNT n40 5190MHz Sum



Duty Cycle NVNT n40 5230MHz Sum


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: Voltage
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 4.49 dB
Ref Level 27.49 dBm
Mkr1 25.25 ms
14.33 dBm
Log
17.5
7.49
-2.51
-12.5
-22.5
-32.5
-42.5
-52.5
-62.5
Center 5.230000000 GHz
Res BW 8 MHz
#Video BW 8.0 MHz
Span 0 Hz
Sweep 100 ms (10001 pts)
Apr 24, 2025
5:04:25 PM

Maximum Conducted Output Power

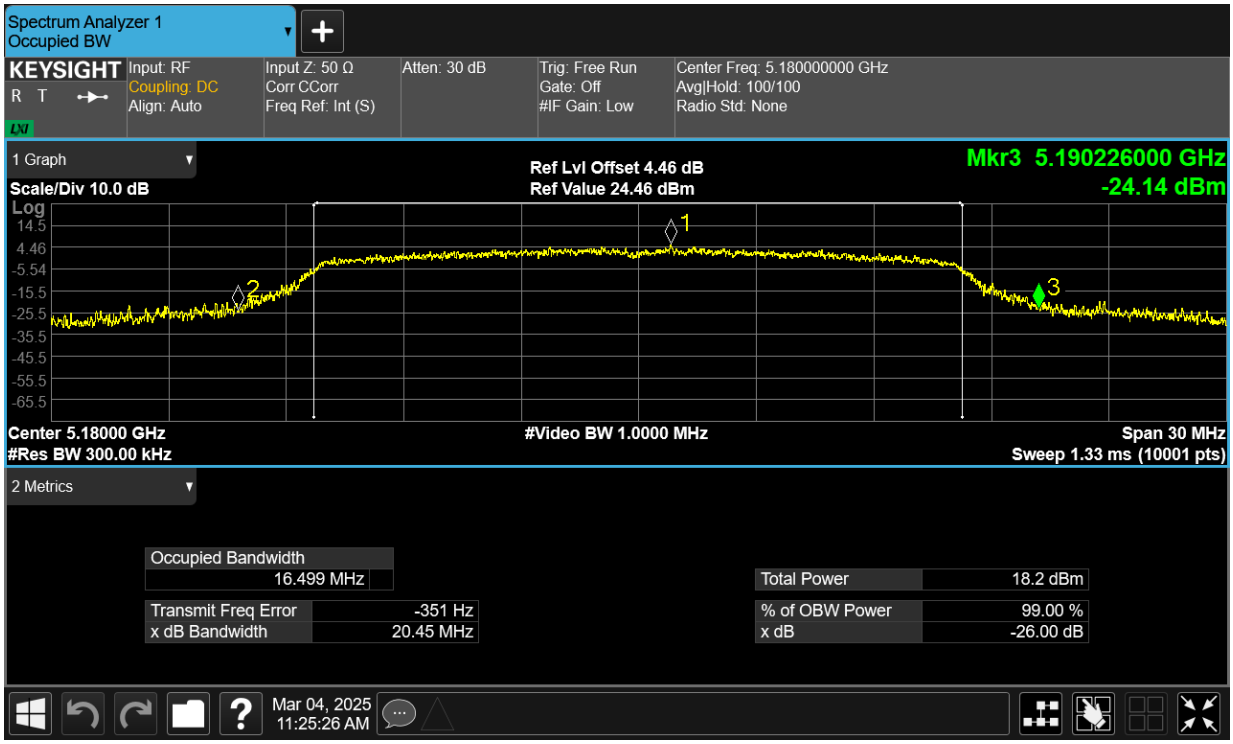
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.15	0	12.15	24	Pass
NVNT	a	5200	Ant1	12.43	0	12.43	24	Pass
NVNT	a	5240	Ant1	13.16	0	13.16	24	Pass
NVNT	a	5180	Ant2	12.86	0	12.86	24	Pass
NVNT	a	5200	Ant2	13.62	0	13.62	24	Pass
NVNT	a	5240	Ant2	14.43	0	14.43	24	Pass
NVNT	ac20	5180	Ant1	7.03	0	7.03	24	Pass
NVNT	ac20	5180	Ant2	9.1	0	9.1	24	Pass
NVNT	ac20	5180	Sum	11.197	0	11.197	24	Pass
NVNT	ac20	5200	Ant1	7.52	0	7.52	24	Pass
NVNT	ac20	5200	Ant2	9.42	0	9.42	24	Pass
NVNT	ac20	5200	Sum	11.583	0	11.583	24	Pass
NVNT	ac20	5240	Ant1	8.18	0	8.18	24	Pass
NVNT	ac20	5240	Ant2	10.22	0	10.22	24	Pass
NVNT	ac20	5240	Sum	12.329	0	12.329	24	Pass
NVNT	ac40	5190	Ant1	7.04	0	7.04	24	Pass
NVNT	ac40	5190	Ant2	9.07	0	9.07	24	Pass
NVNT	ac40	5190	Sum	11.183	0	11.183	24	Pass
NVNT	ac40	5230	Ant1	8.23	0	8.23	24	Pass
NVNT	ac40	5230	Ant2	10.31	0	10.31	24	Pass
NVNT	ac40	5230	Sum	12.404	0	12.404	24	Pass
NVNT	ac80	5210	Ant1	7.47	0	7.47	24	Pass
NVNT	ac80	5210	Ant2	9.44	0	9.44	24	Pass
NVNT	ac80	5210	Sum	11.576	0	11.576	24	Pass
NVNT	ax20	5180	Ant1	7.12	0	7.12	24	Pass
NVNT	ax20	5180	Ant2	9.1	0	9.1	24	Pass
NVNT	ax20	5180	Sum	11.232	0	11.232	24	Pass
NVNT	ax20	5200	Ant1	7.62	0	7.62	24	Pass
NVNT	ax20	5200	Ant2	9.61	0	9.61	24	Pass
NVNT	ax20	5200	Sum	11.738	0	11.738	24	Pass
NVNT	ax20	5240	Ant1	8.22	0	8.22	24	Pass
NVNT	ax20	5240	Ant2	10.43	0	10.43	24	Pass
NVNT	ax20	5240	Sum	12.474	0	12.474	24	Pass
NVNT	ax40	5190	Ant1	7.29	0	7.29	24	Pass
NVNT	ax40	5190	Ant2	9.29	0	9.29	24	Pass
NVNT	ax40	5190	Sum	11.414	0	11.414	24	Pass
NVNT	ax40	5230	Ant1	8.34	0	8.34	24	Pass
NVNT	ax40	5230	Ant2	10.59	0	10.59	24	Pass
NVNT	ax40	5230	Sum	12.619	0	12.619	24	Pass
NVNT	ax80	5210	Ant1	7.74	0	7.74	24	Pass

NVNT	ax80	5210	Ant2	9.65	0	9.65	24	Pass
NVNT	ax80	5210	Sum	11.809	0	11.809	24	Pass
NVNT	n20	5180	Ant1	8.06	0	8.06	24	Pass
NVNT	n20	5180	Ant2	9.94	0	9.94	24	Pass
NVNT	n20	5180	Sum	12.111	0	12.111	24	Pass
NVNT	n20	5200	Ant1	8.22	0	8.22	24	Pass
NVNT	n20	5200	Ant2	10.39	0	10.39	24	Pass
NVNT	n20	5200	Sum	12.449	0	12.449	24	Pass
NVNT	n20	5240	Ant1	8.91	0	8.91	24	Pass
NVNT	n20	5240	Ant2	10.92	0	10.92	24	Pass
NVNT	n20	5240	Sum	13.041	0	13.041	24	Pass
NVNT	n40	5190	Ant1	8.2	0	8.2	24	Pass
NVNT	n40	5190	Ant2	10.21	0	10.21	24	Pass
NVNT	n40	5190	Sum	12.331	0	12.331	24	Pass
NVNT	n40	5230	Ant1	8.4	0	8.4	24	Pass
NVNT	n40	5230	Ant2	10.4	0	10.4	24	Pass
NVNT	n40	5230	Sum	12.524	0	12.524	24	Pass

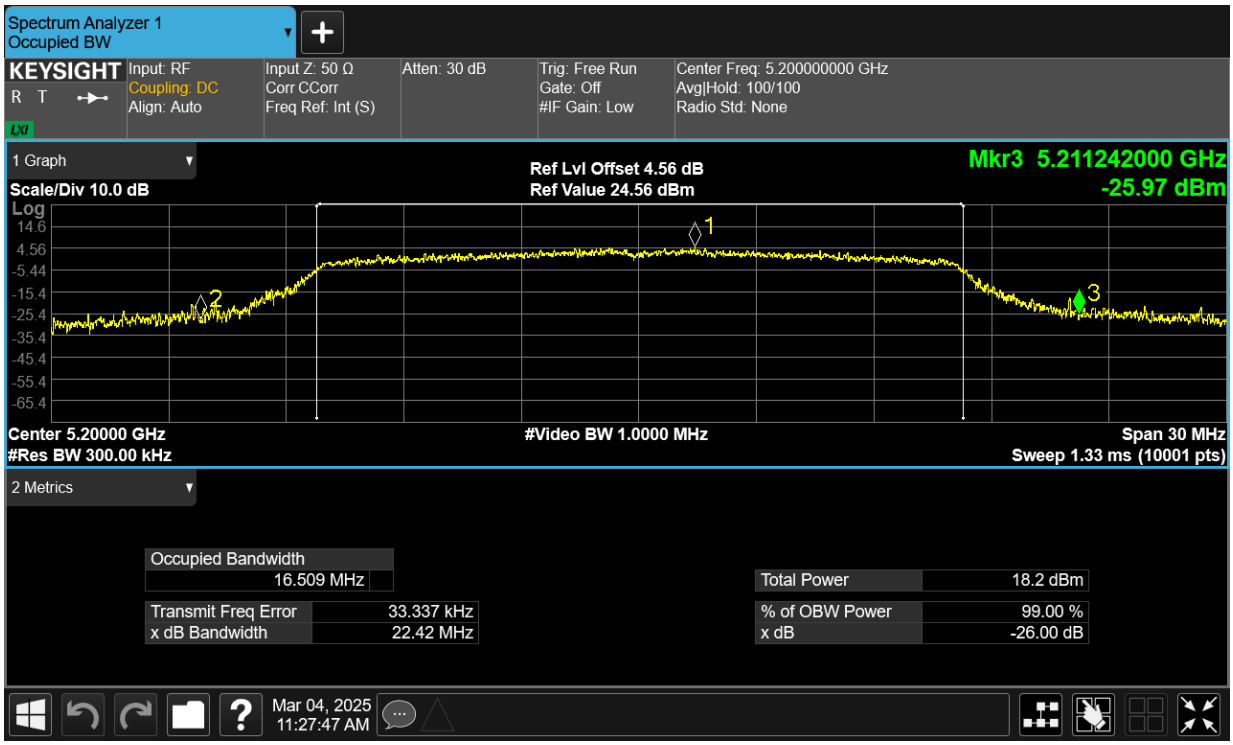
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	20.453
NVNT	a	5200	Ant1	22.418
NVNT	a	5240	Ant1	20.8
NVNT	a	5180	Ant2	23.397
NVNT	a	5200	Ant2	25.317
NVNT	a	5240	Ant2	29.021
NVNT	ac20	5180	Ant1	20.262
NVNT	ac20	5180	Ant2	19.784
NVNT	ac20	5200	Ant1	20.003
NVNT	ac20	5200	Ant2	19.999
NVNT	ac20	5240	Ant1	20.25
NVNT	ac20	5240	Ant2	20.072
NVNT	ac40	5190	Ant1	40.087
NVNT	ac40	5190	Ant2	39.431
NVNT	ac40	5230	Ant1	39.706
NVNT	ac40	5230	Ant2	39.239
NVNT	ac80	5210	Ant1	79.203
NVNT	ac80	5210	Ant2	78.542
NVNT	ax20	5180	Ant1	19.844
NVNT	ax20	5180	Ant2	19.787
NVNT	ax20	5200	Ant1	19.868
NVNT	ax20	5200	Ant2	19.849
NVNT	ax20	5240	Ant1	19.814
NVNT	ax20	5240	Ant2	19.97
NVNT	ax40	5190	Ant1	39.367
NVNT	ax40	5190	Ant2	38.363
NVNT	ax40	5230	Ant1	39.185
NVNT	ax40	5230	Ant2	39.238
NVNT	ax80	5210	Ant1	79.158
NVNT	ax80	5210	Ant2	79.237
NVNT	n20	5180	Ant1	19.99
NVNT	n20	5180	Ant2	19.781
NVNT	n20	5200	Ant1	20.18
NVNT	n20	5200	Ant2	20.015
NVNT	n20	5240	Ant1	20.149
NVNT	n20	5240	Ant2	19.875
NVNT	n40	5190	Ant1	39.361
NVNT	n40	5190	Ant2	39.508
NVNT	n40	5230	Ant1	39.511
NVNT	n40	5230	Ant2	39.502

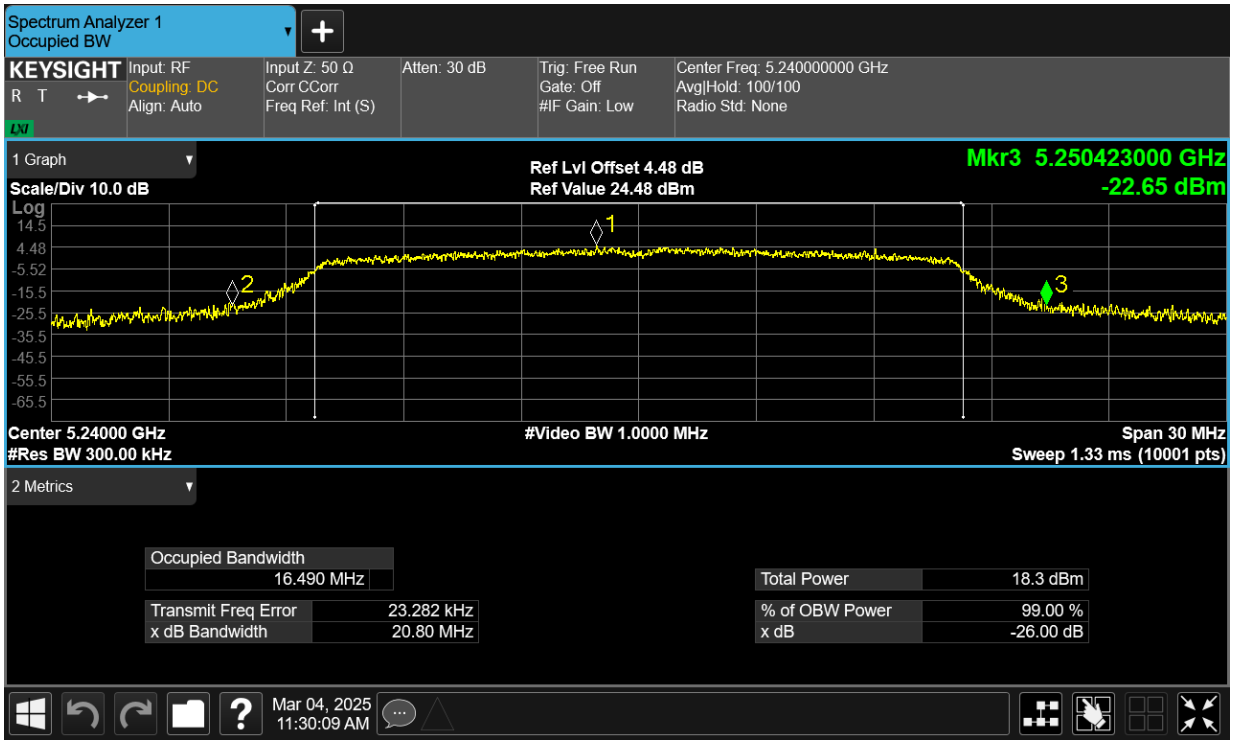
Test Graphs
-26dB Bandwidth NVNT a 5180MHz Ant1



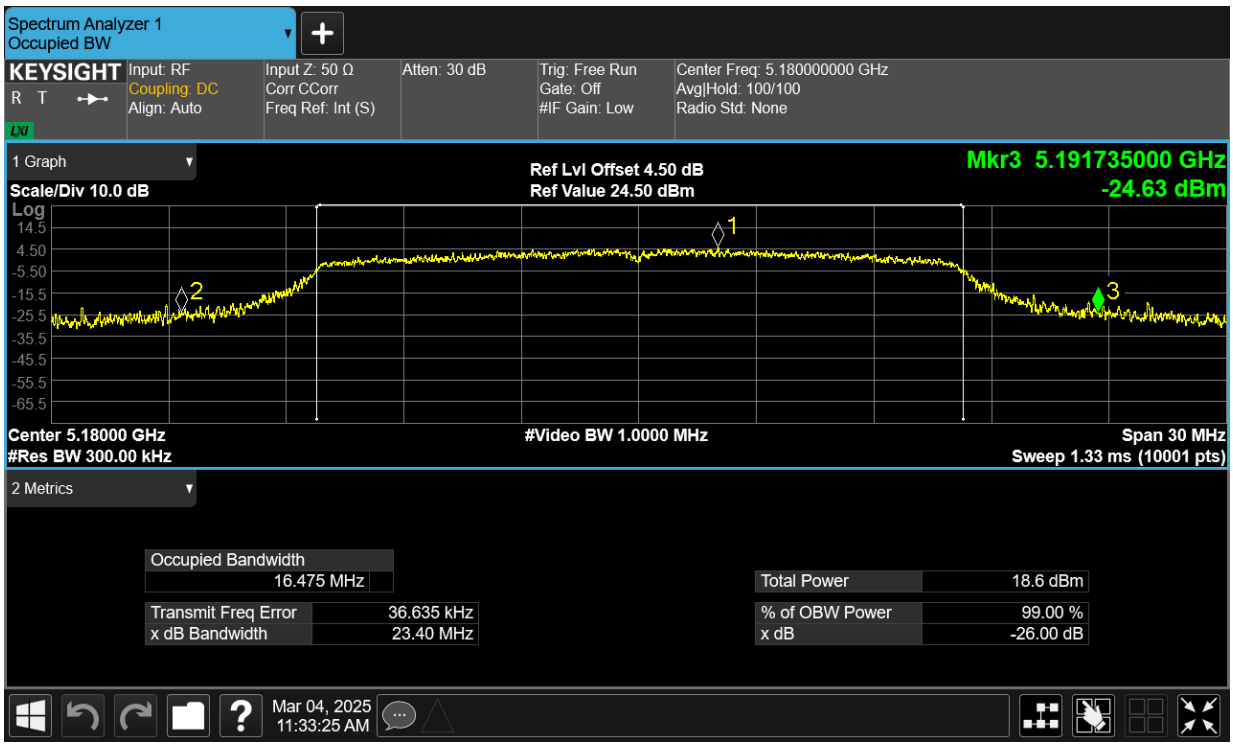
-26dB Bandwidth NVNT a 5200MHz Ant1



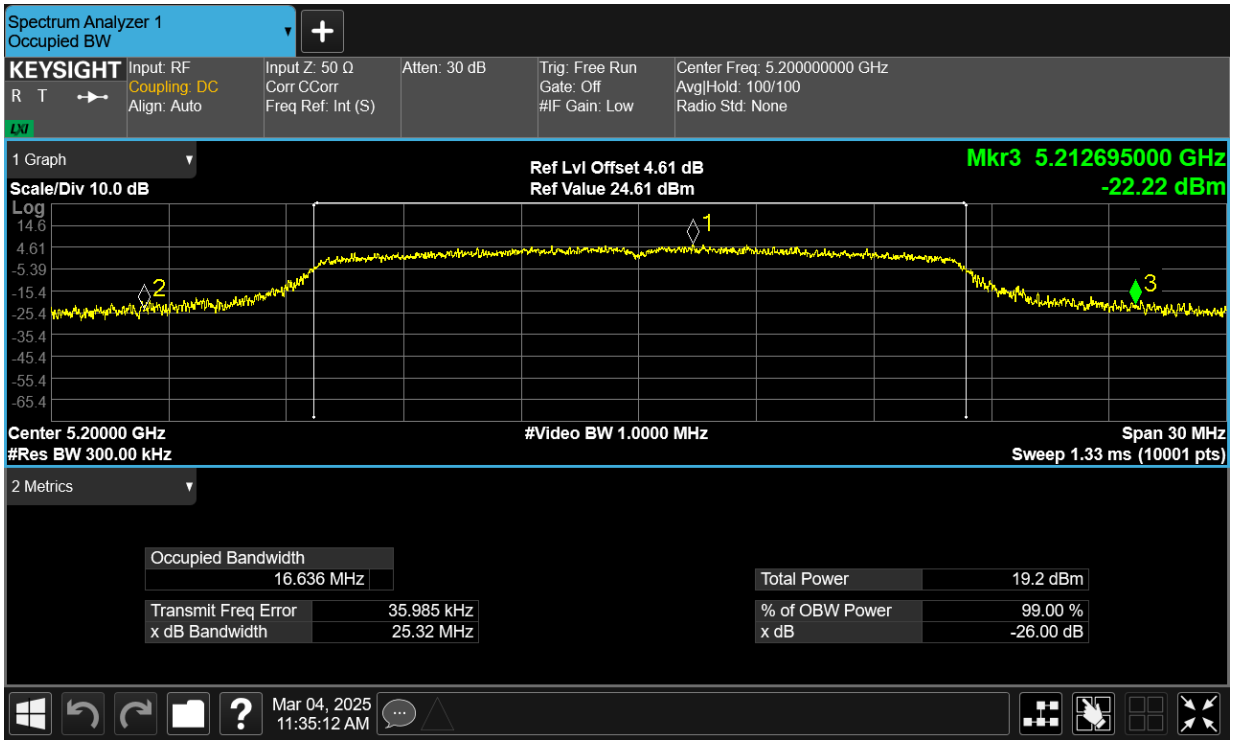
-26dB Bandwidth NVNT a 5240MHz Ant1



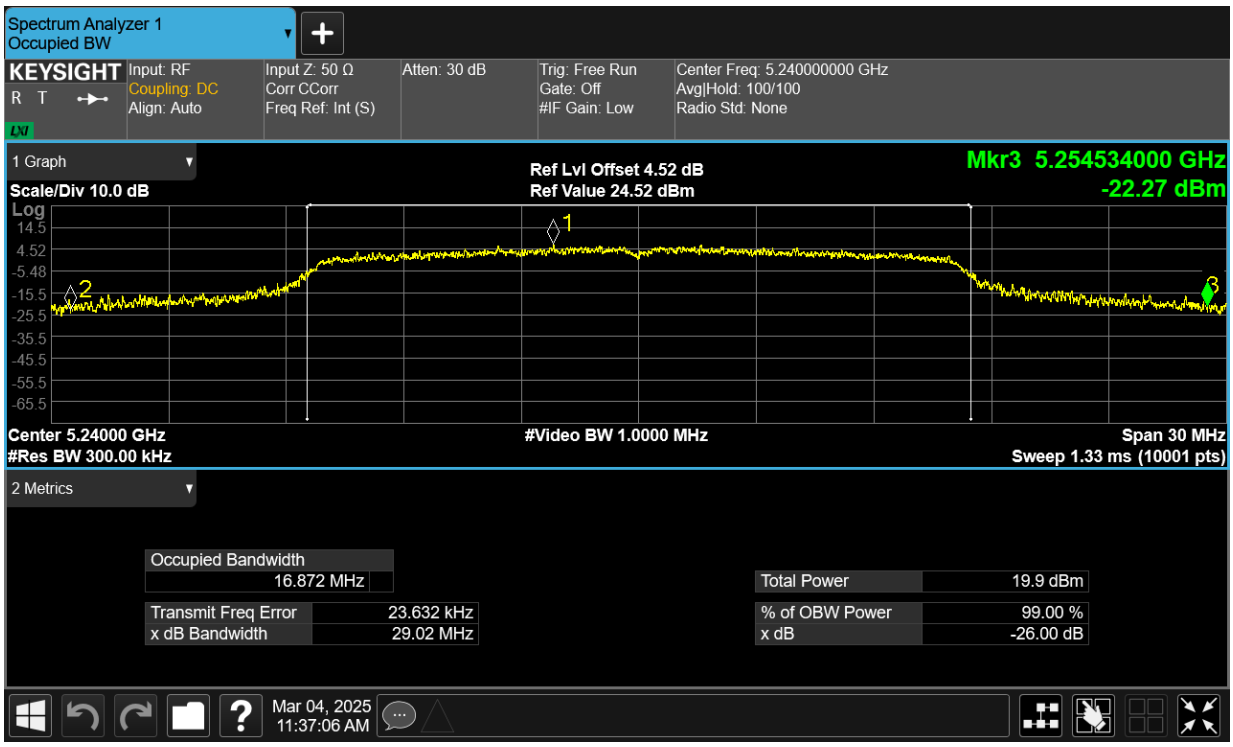
-26dB Bandwidth NVNT a 5180MHz Ant2



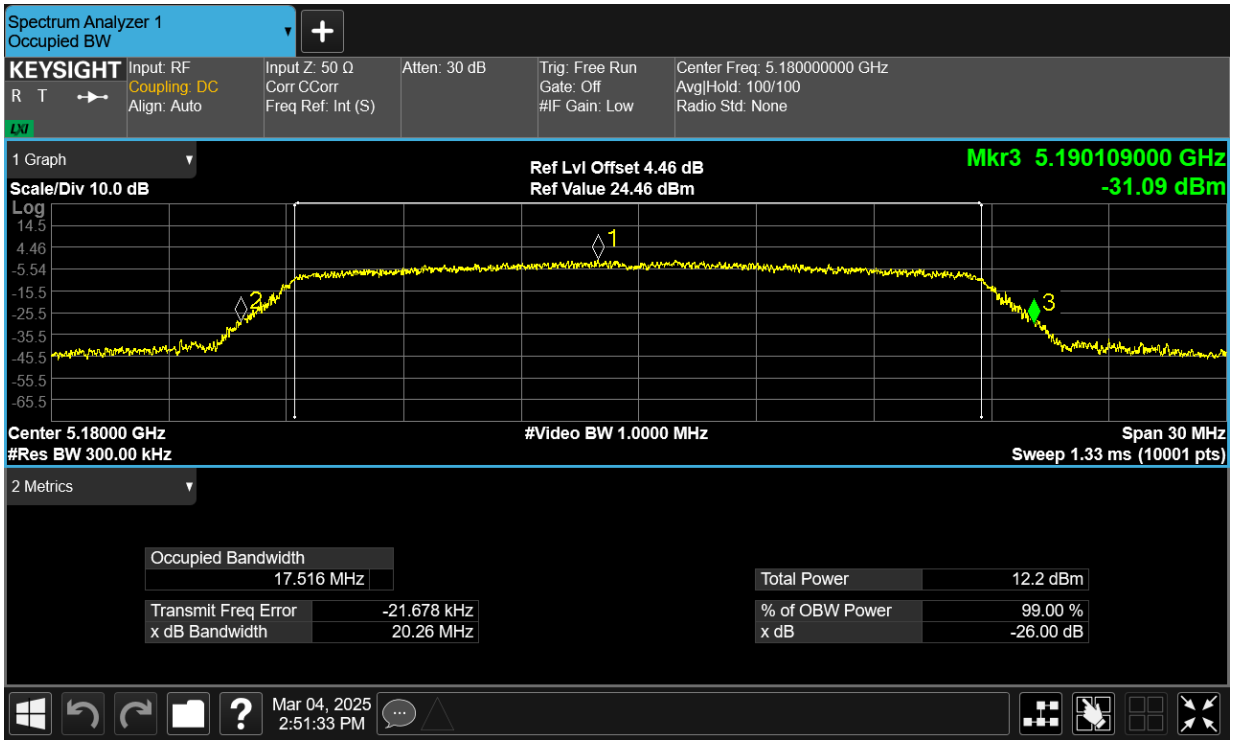
-26dB Bandwidth NVNT a 5200MHz Ant2



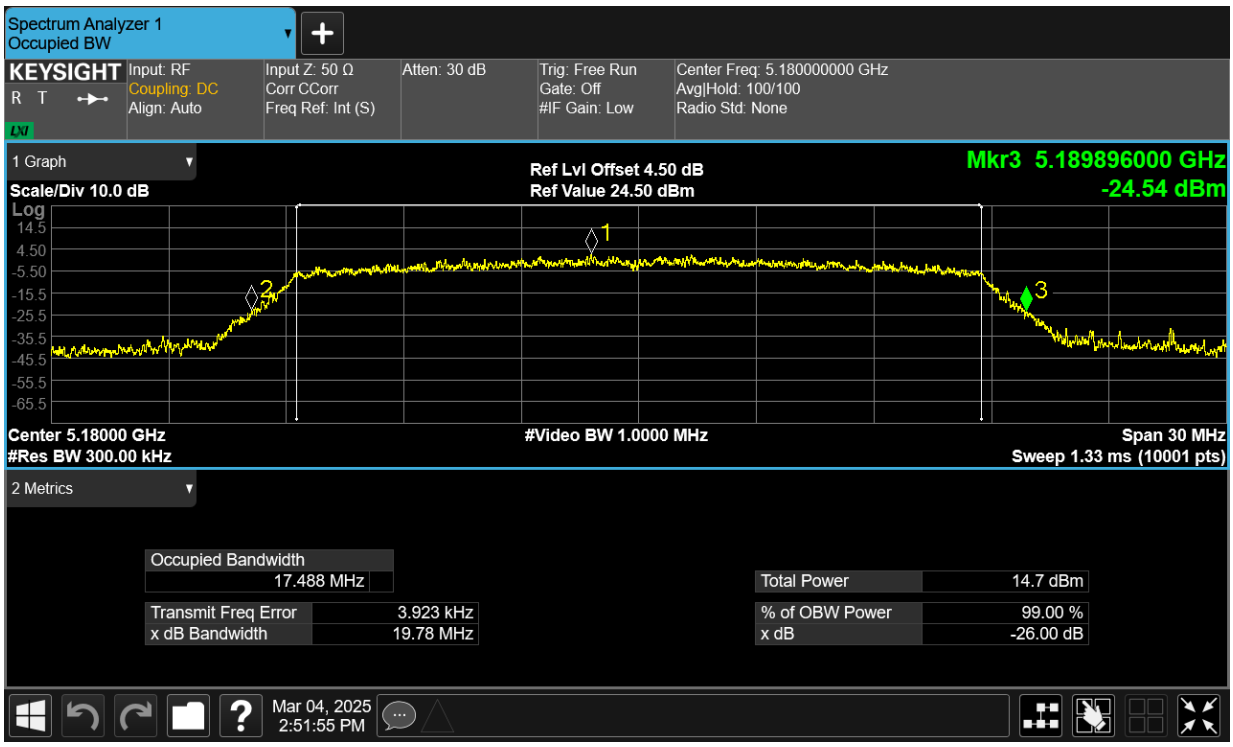
-26dB Bandwidth NVNT a 5240MHz Ant2



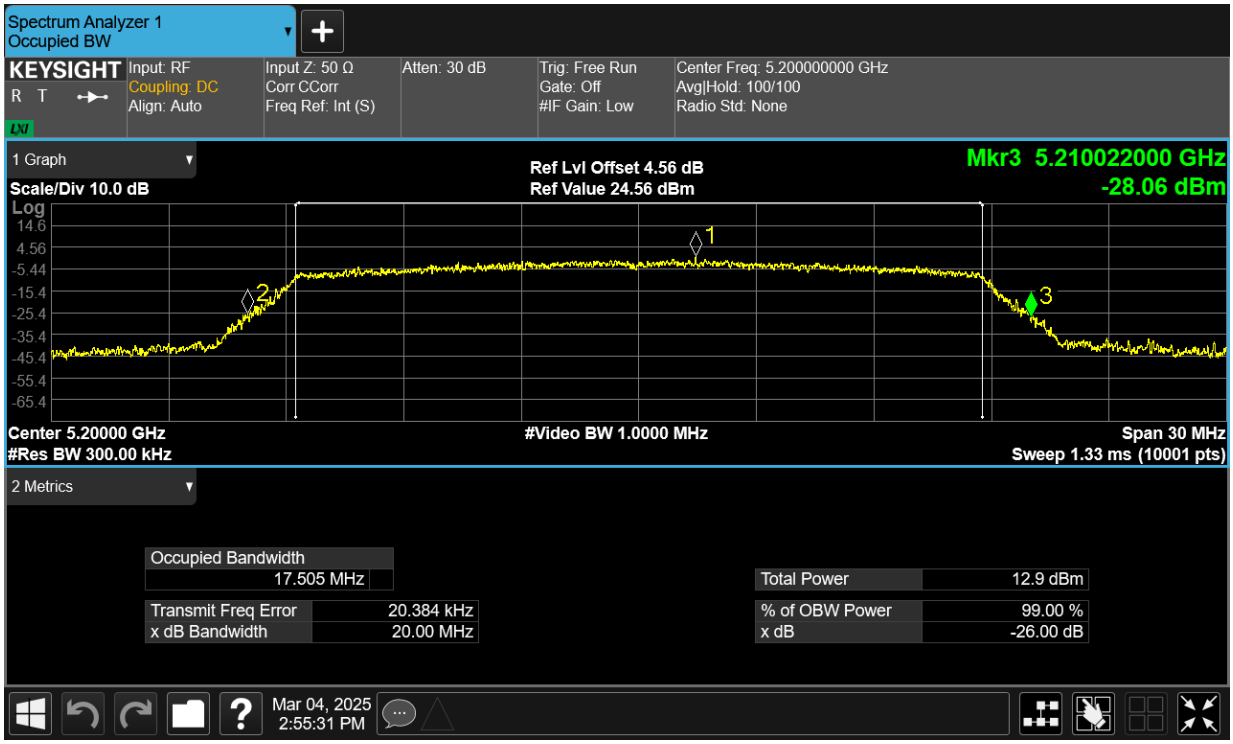
-26dB Bandwidth NVNT ac20 5180MHz Ant1



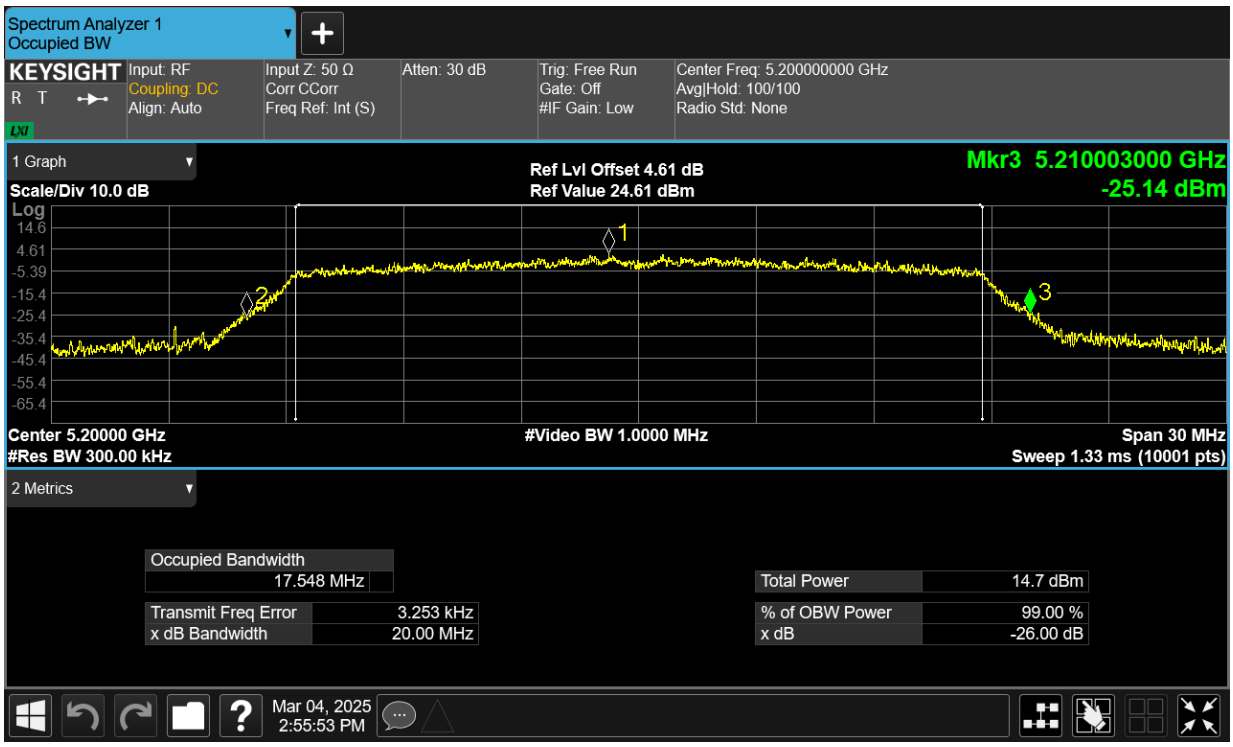
-26dB Bandwidth NVNT ac20 5180MHz Ant2



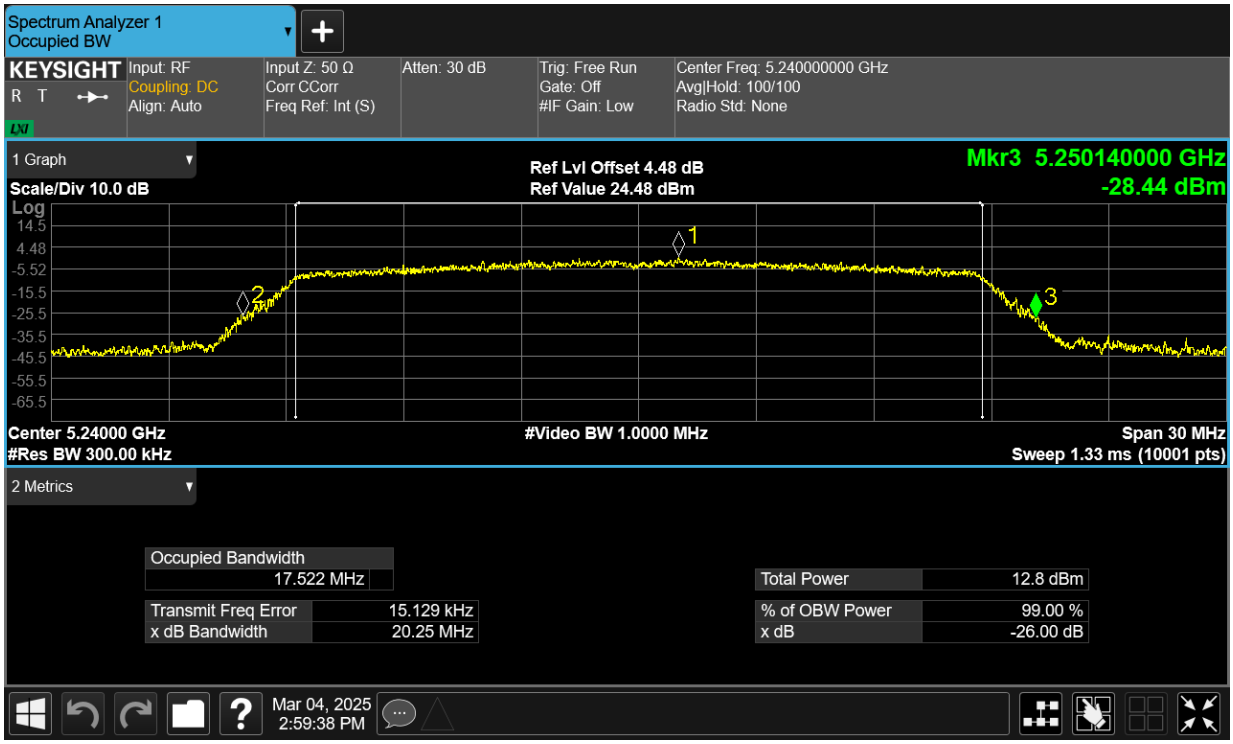
-26dB Bandwidth NVNT ac20 5200MHz Ant1



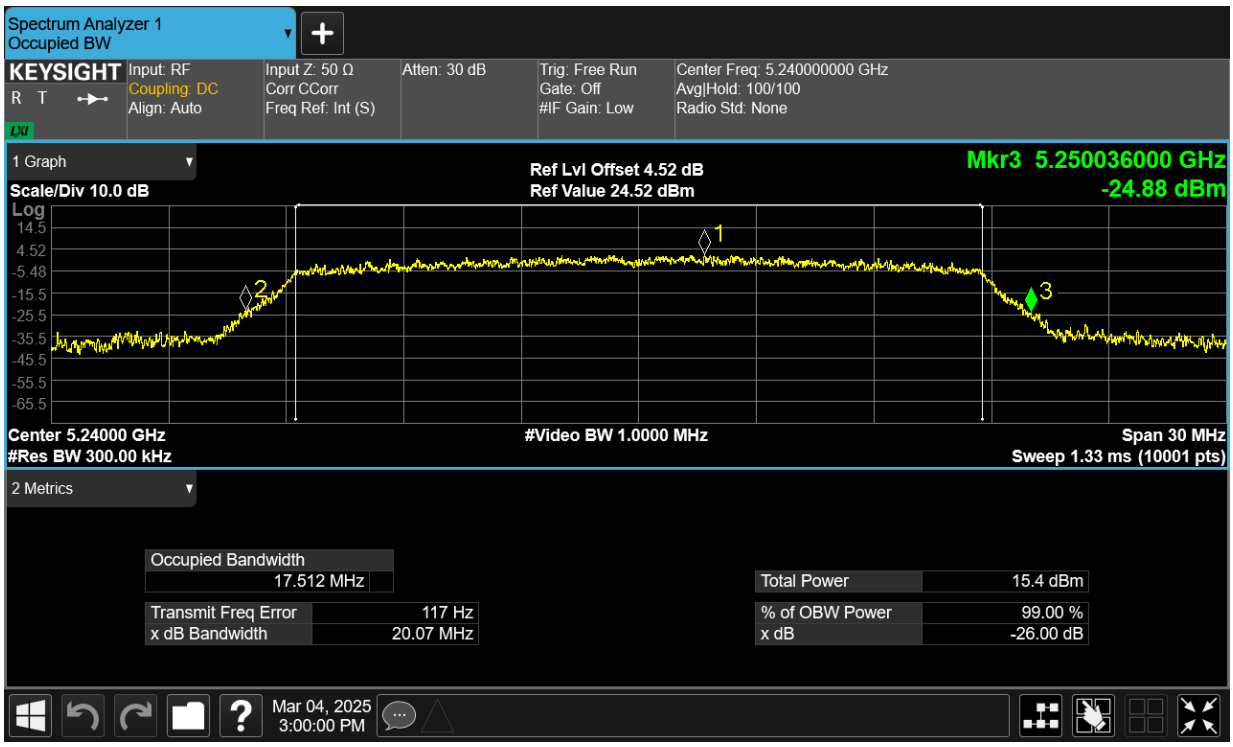
-26dB Bandwidth NVNT ac20 5200MHz Ant2



-26dB Bandwidth NVNT ac20 5240MHz Ant1

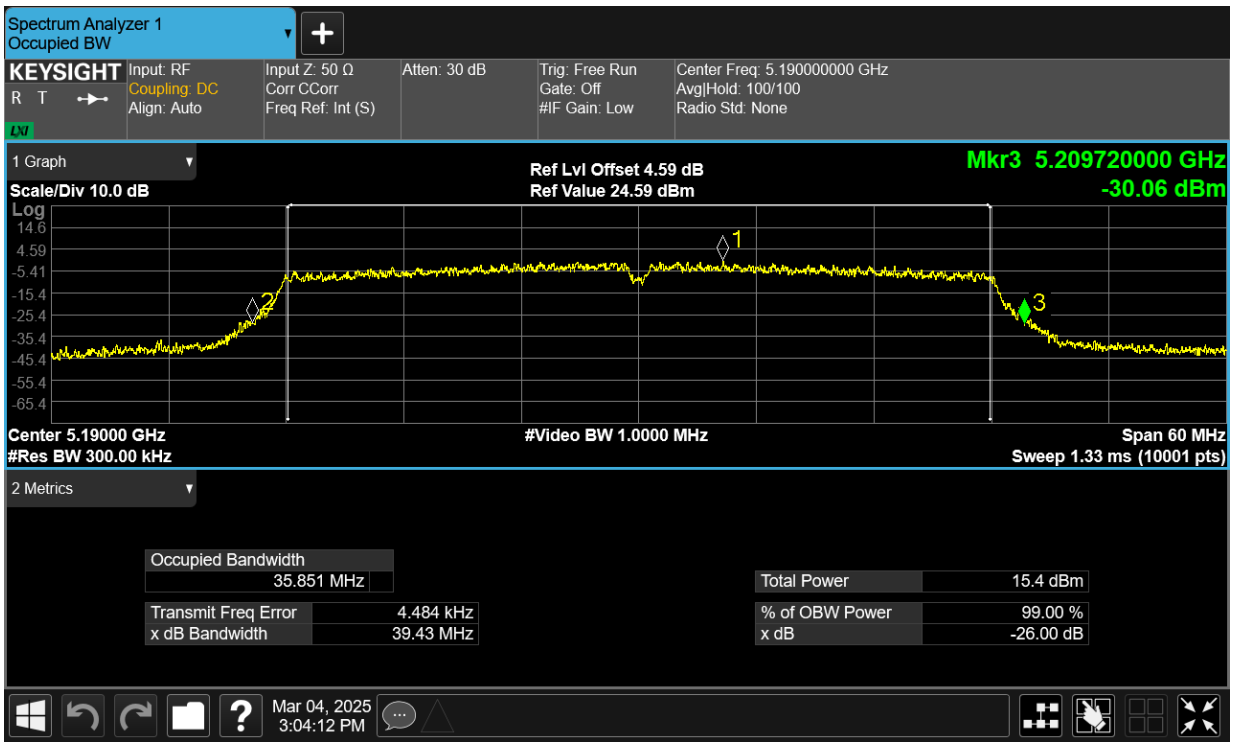


-26dB Bandwidth NVNT ac20 5240MHz Ant2

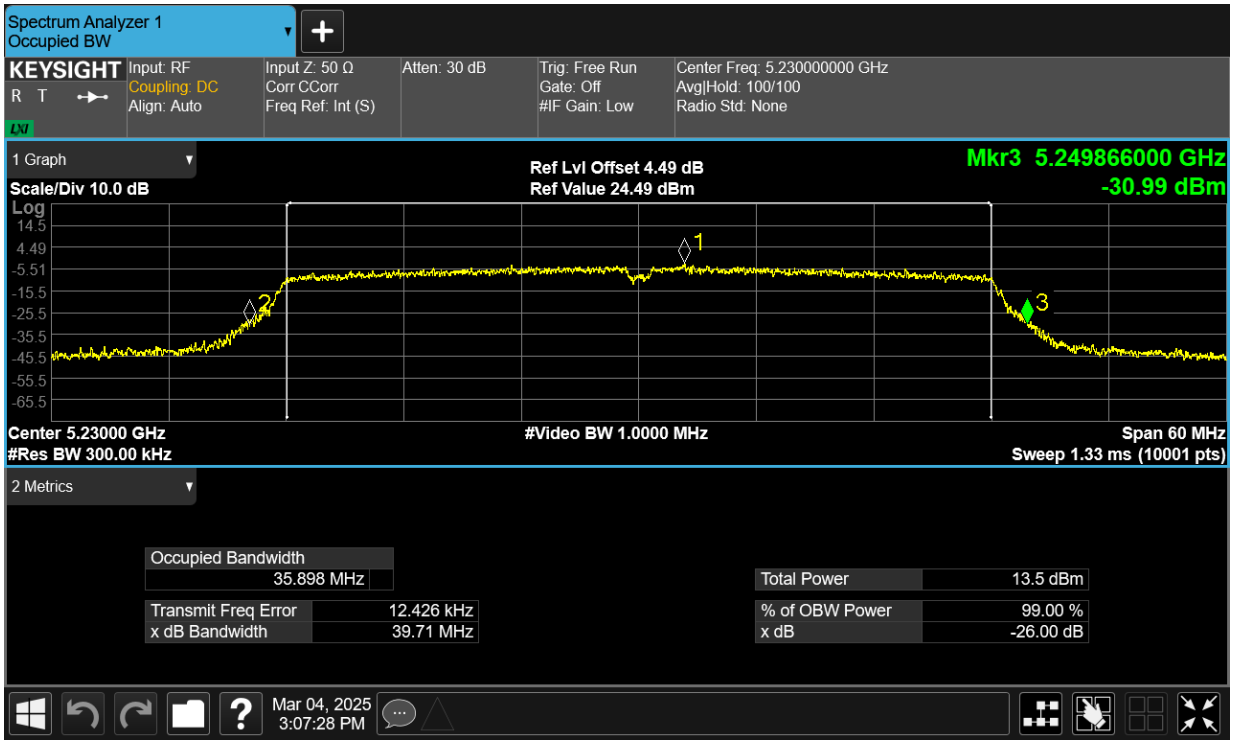


-26dB Bandwidth NVNT ac40 5190MHz Ant1

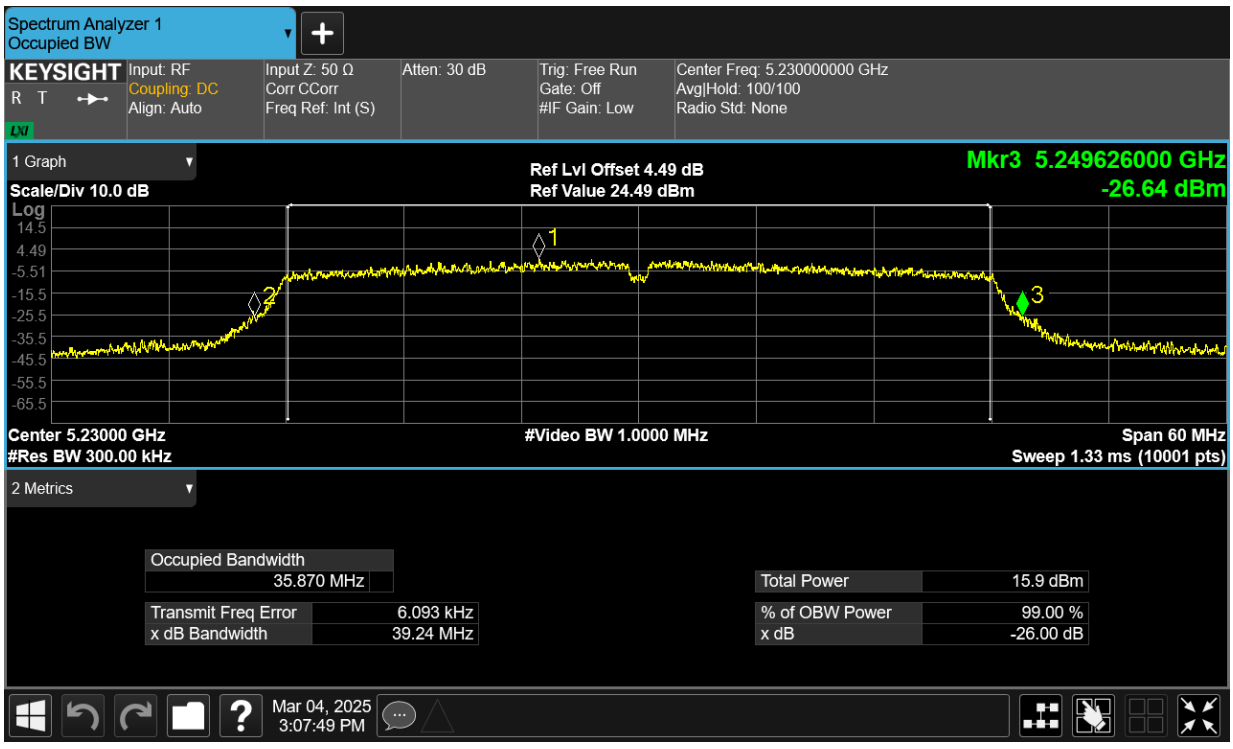
-26dB Bandwidth NVNT ac40 5190MHz Ant2



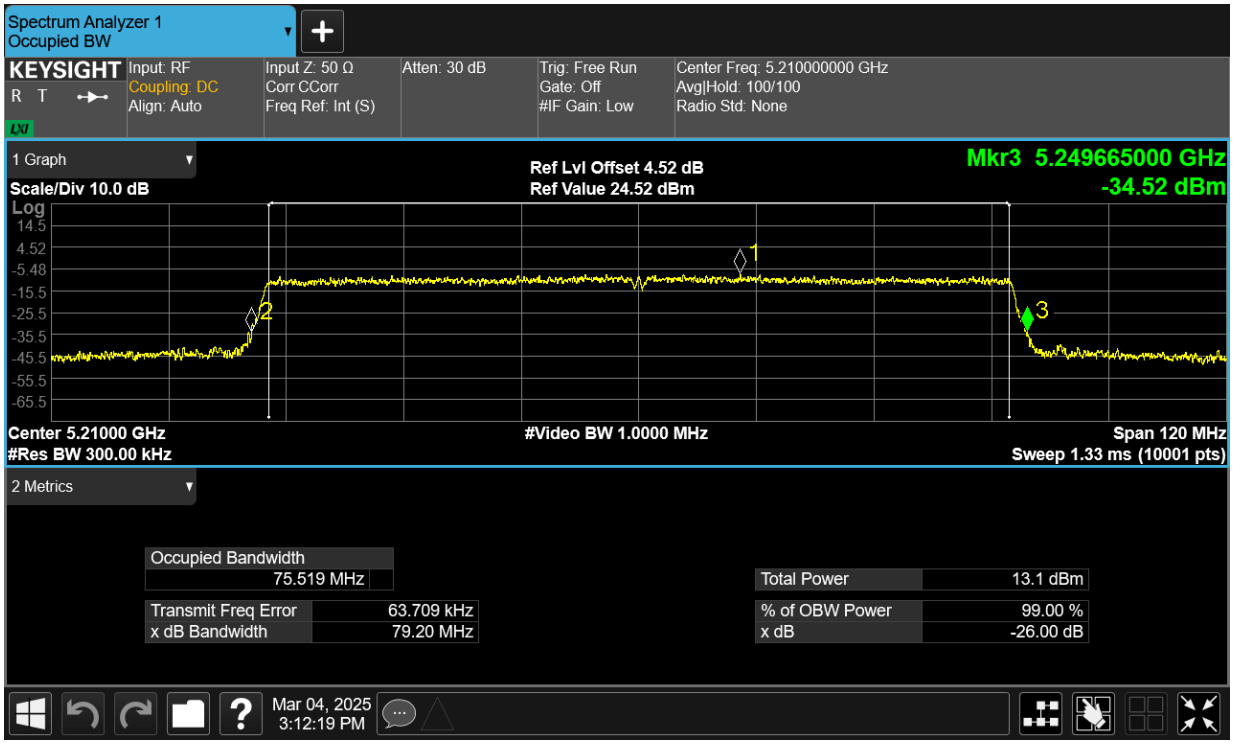
-26dB Bandwidth NVNT ac40 5230MHz Ant1



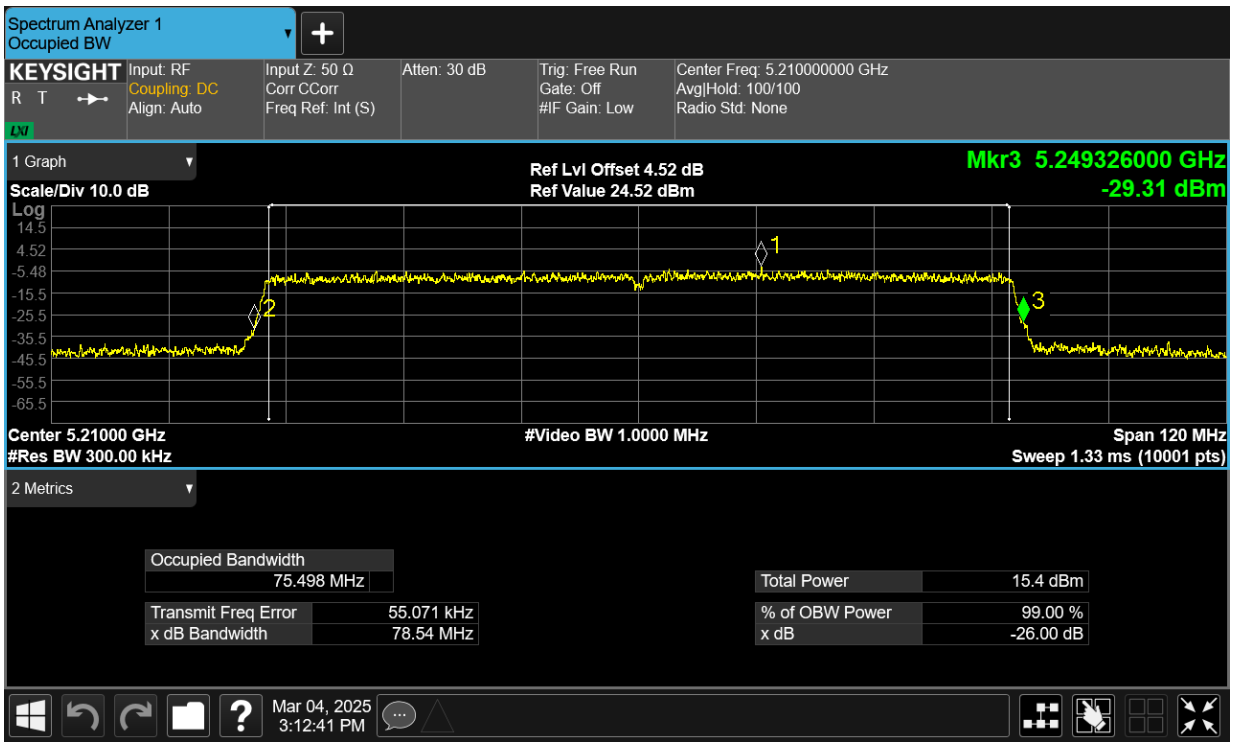
-26dB Bandwidth NVNT ac40 5230MHz Ant2



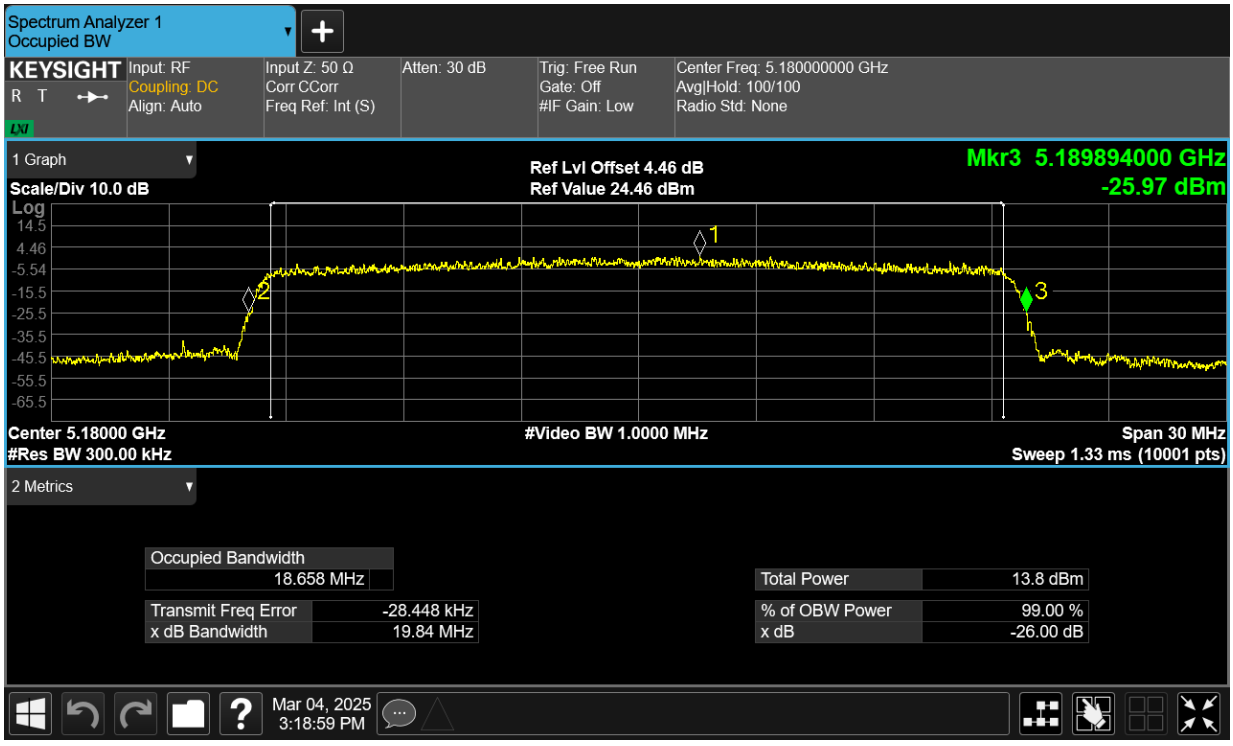
-26dB Bandwidth NVNT ac80 5210MHz Ant1



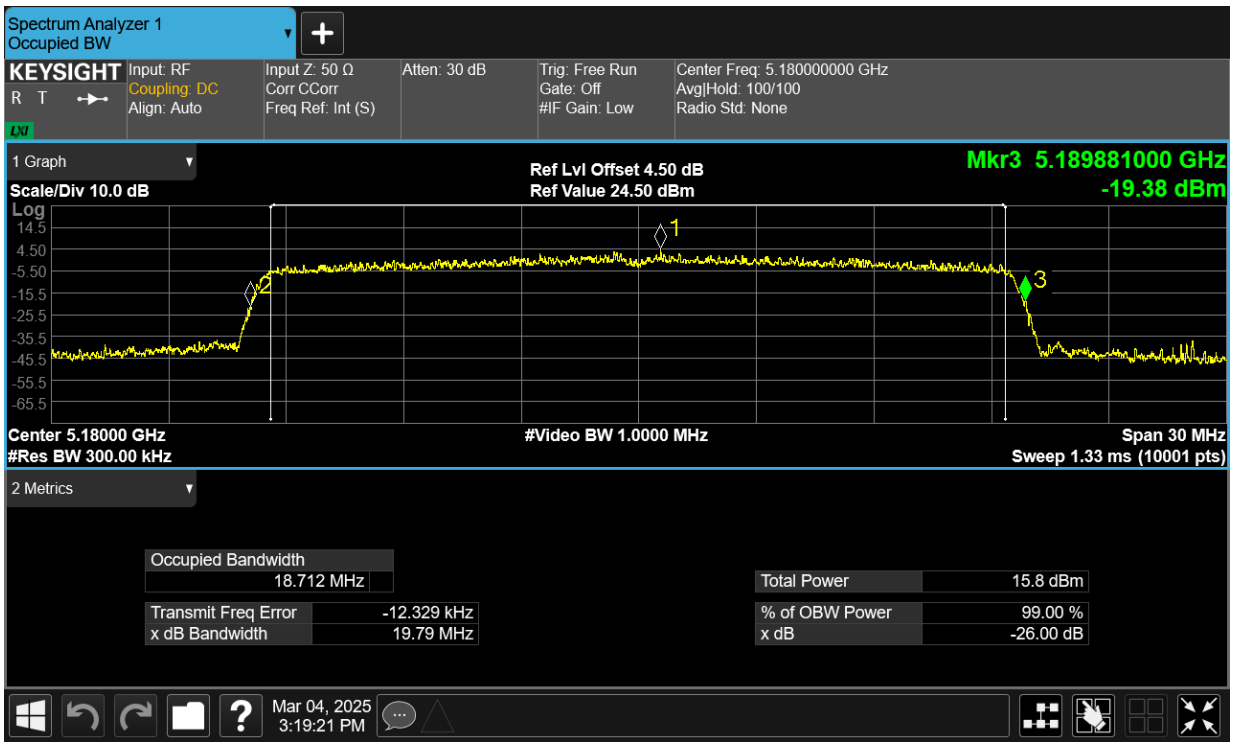
-26dB Bandwidth NVNT ac80 5210MHz Ant2



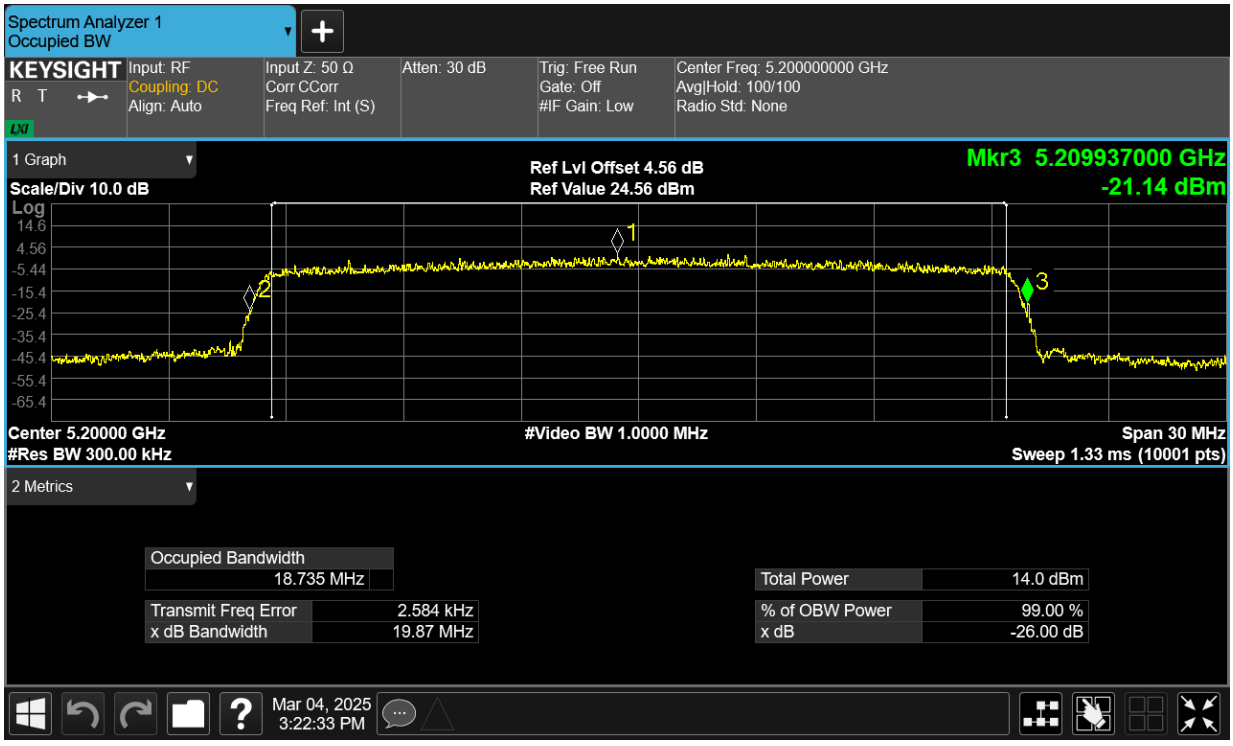
-26dB Bandwidth NVNT ax20 5180MHz Ant1



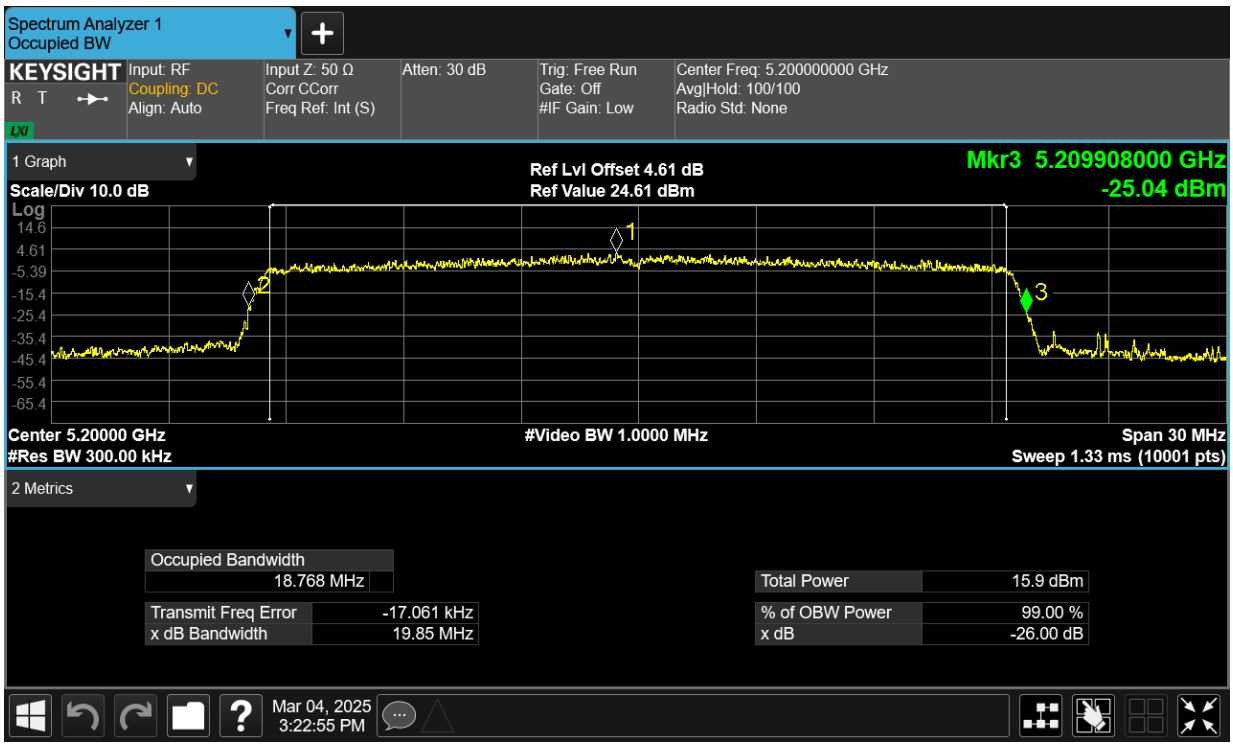
-26dB Bandwidth NVNT ax20 5180MHz Ant2



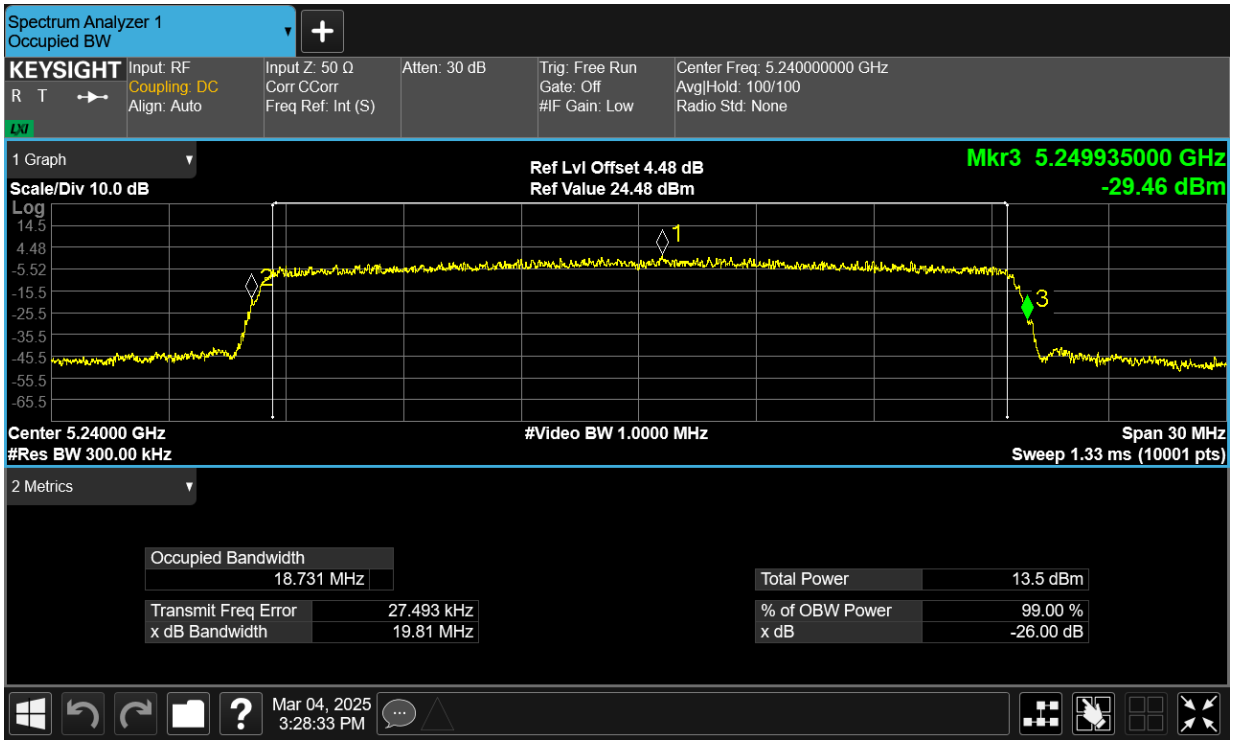
-26dB Bandwidth NVNT ax20 5200MHz Ant1



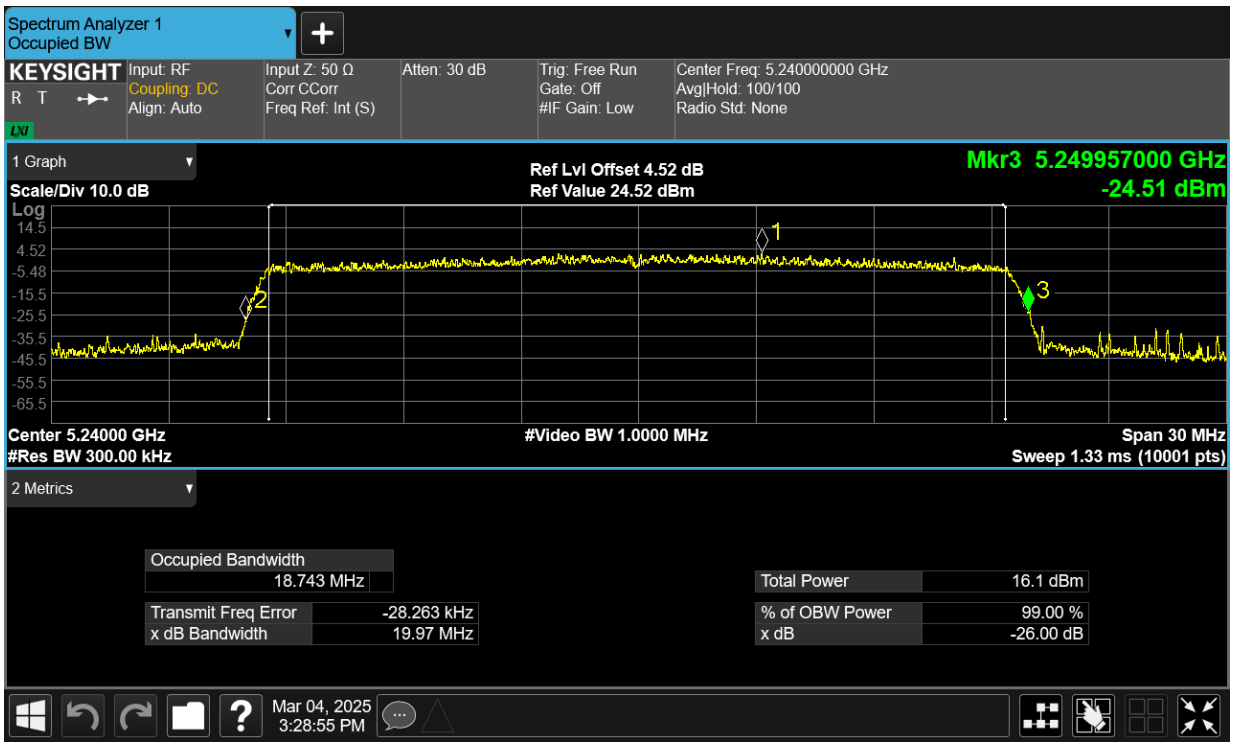
-26dB Bandwidth NVNT ax20 5200MHz Ant2



-26dB Bandwidth NVNT ax20 5240MHz Ant1



-26dB Bandwidth NVNT ax20 5240MHz Ant2



-26dB Bandwidth NVNT ax40 5190MHz Ant1