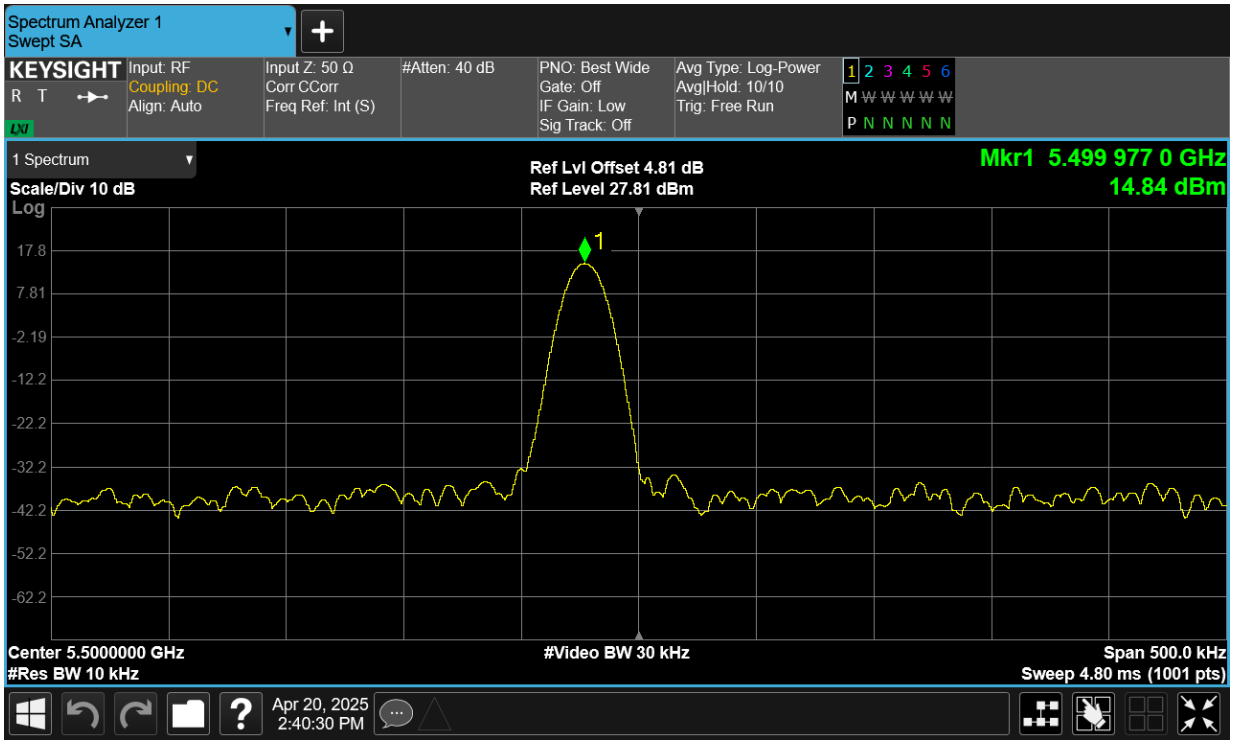
Test Data

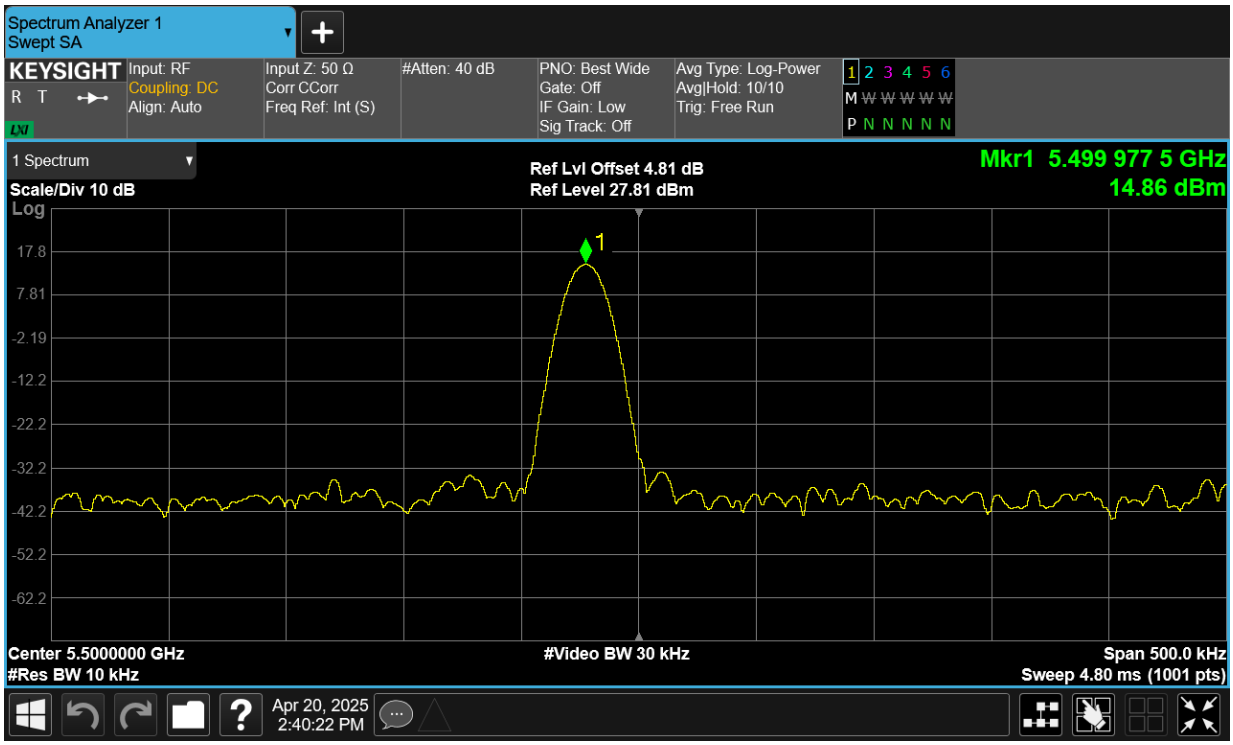
Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5500	Ant1	5499.977	-4.18	Within authorized band	Pass
LVNT	a	5500	Ant1	5499.9775	-4.09		Pass
NVHT	a	5500	Ant1	5499.9775	-4.09		Pass
NVLT	a	5500	Ant1	5499.977	-4.18		Pass
NVNT	a	5500	Ant1	5499.9765	-4.27		Pass
HVNT	ac80	5530	Ant1	5529.977	-4.16		Pass
LVNT	ac80	5530	Ant1	5529.9765	-4.25		Pass
NVHT	ac80	5530	Ant1	5529.9765	-4.25		Pass
NVLT	ac80	5530	Ant1	5529.9765	-4.25		Pass
NVNT	ac80	5530	Ant1	5529.9765	-4.25		Pass
HVNT	n40	5510	Ant1	5509.977	-4.17		Pass
LVNT	n40	5510	Ant1	5509.9765	-4.26		Pass
NVHT	n40	5510	Ant1	5509.9765	-4.26		Pass
NVLT	n40	5510	Ant1	5509.977	-4.17		Pass
NVNT	n40	5510	Ant1	5509.977	-4.17		Pass
Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low. Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.							

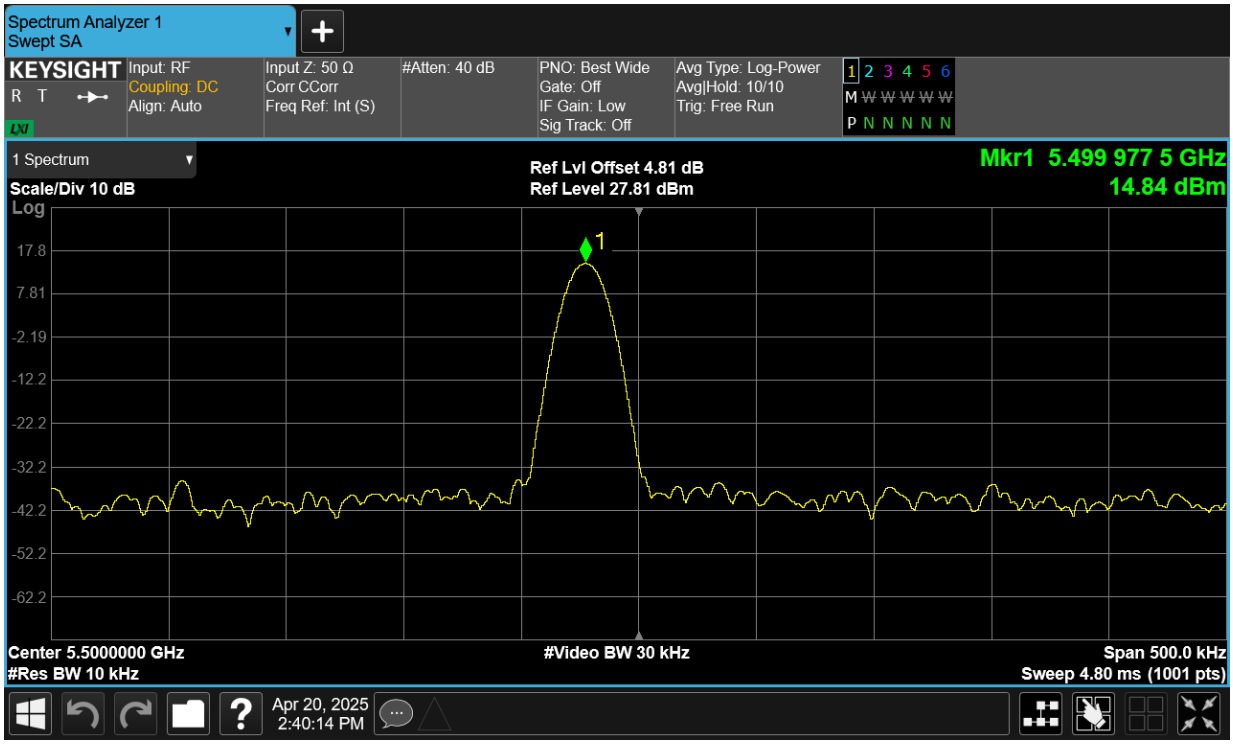
Test Graphs
Freq. Stability HVNT a 5500MHz Ant1



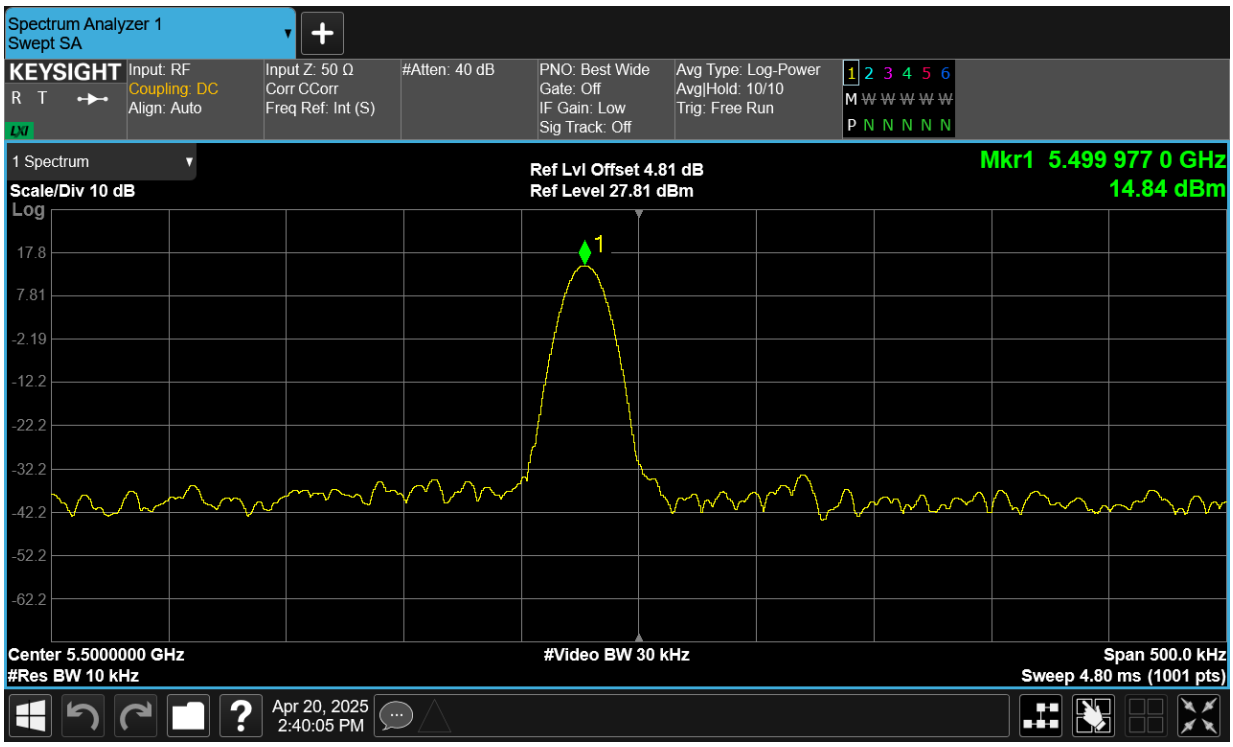
Freq. Stability LVNT a 5500MHz Ant1



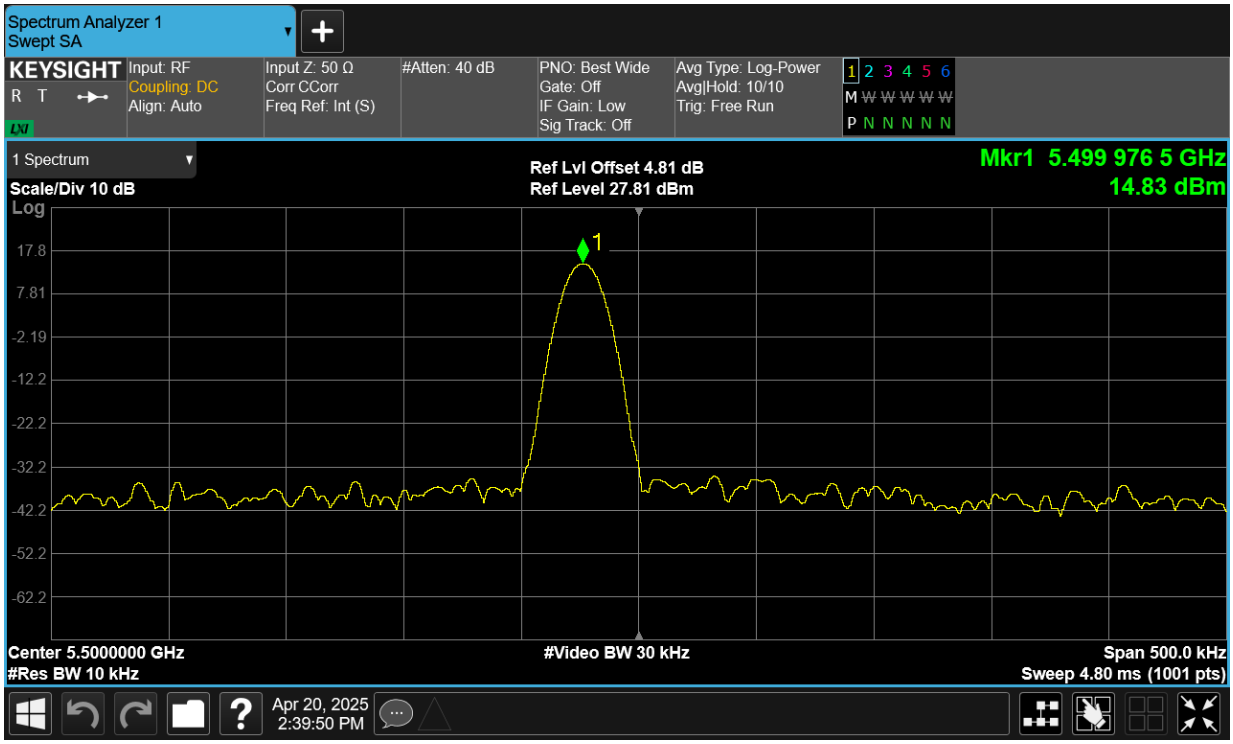
Freq. Stability NVHT a 5500MHz Ant1



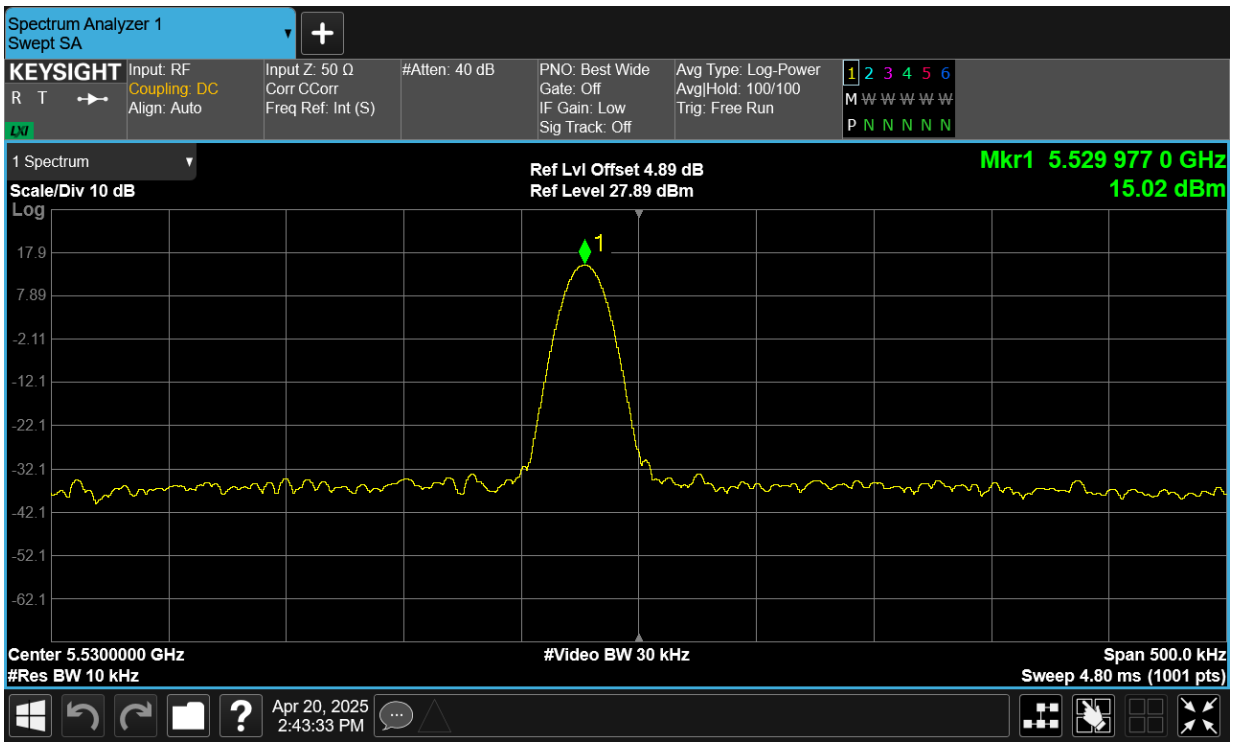
Freq. Stability NVLT a 5500MHz Ant1



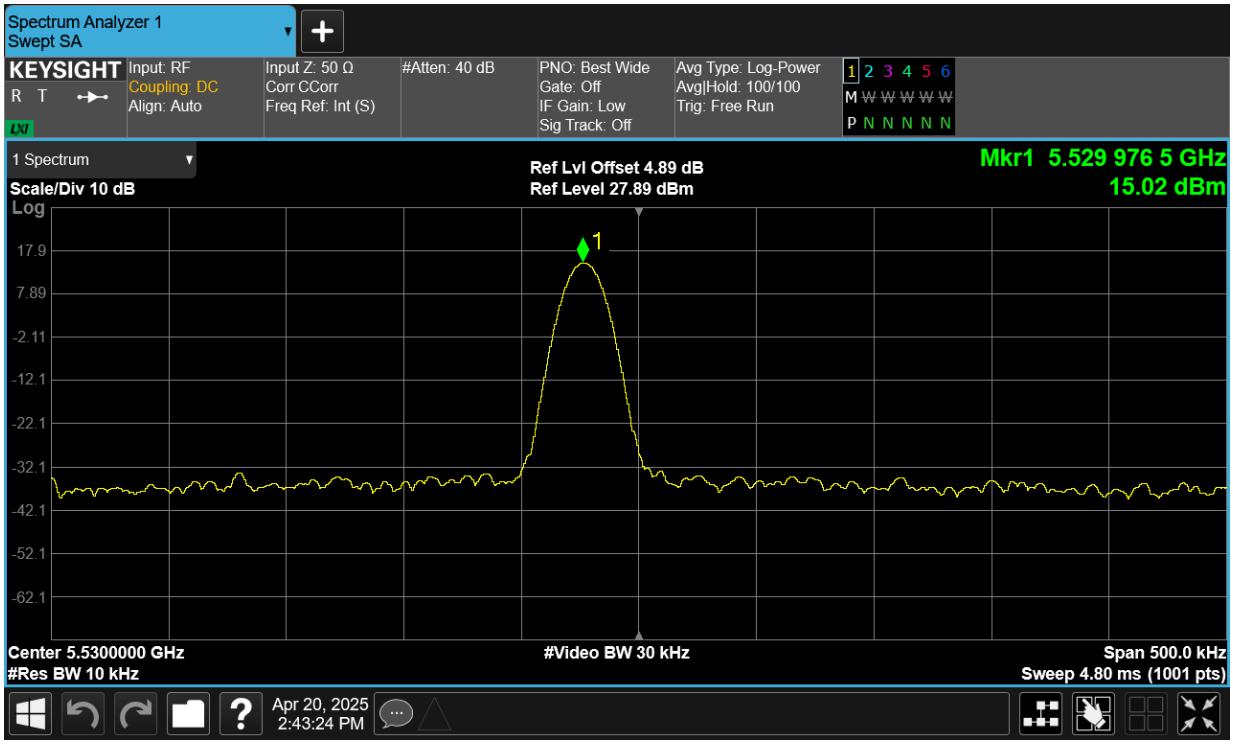
Freq. Stability NVNT a 5500MHz Ant1



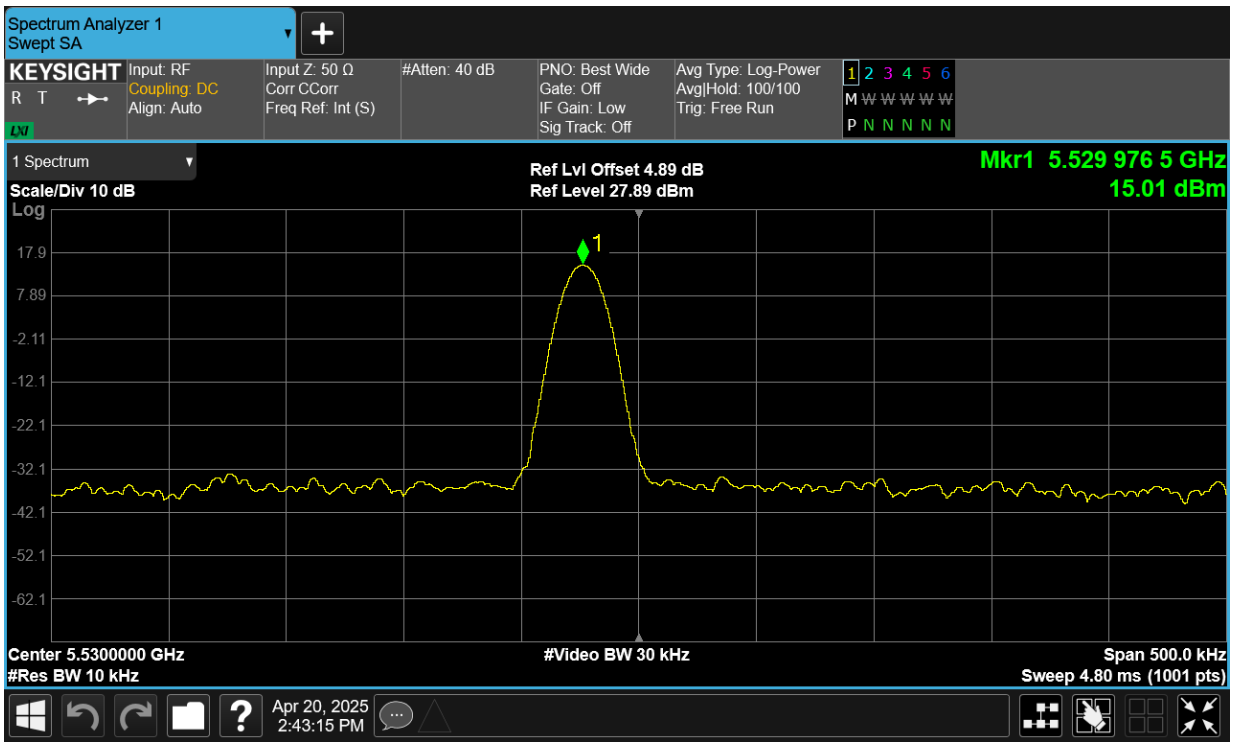
Freq. Stability HVNT ac80 5530MHz Ant1



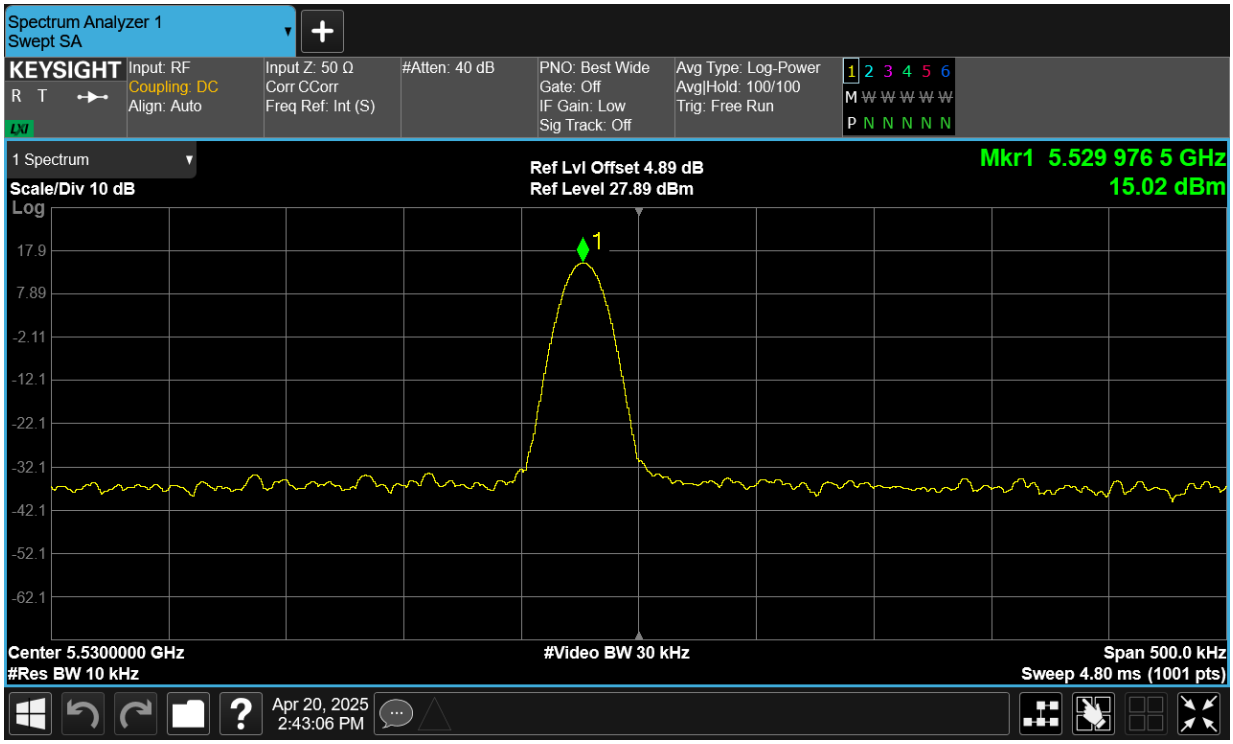
Freq. Stability LVNT ac80 5530MHz Ant1



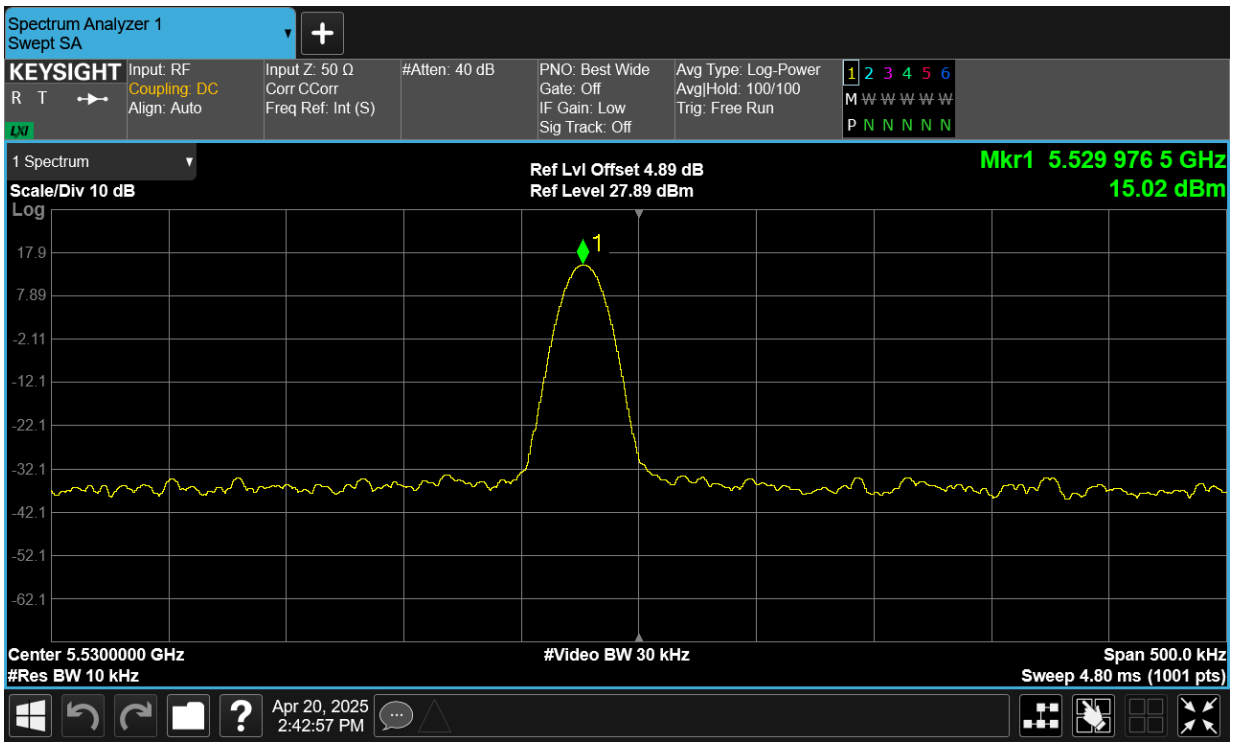
Freq. Stability NVHT ac80 5530MHz Ant1



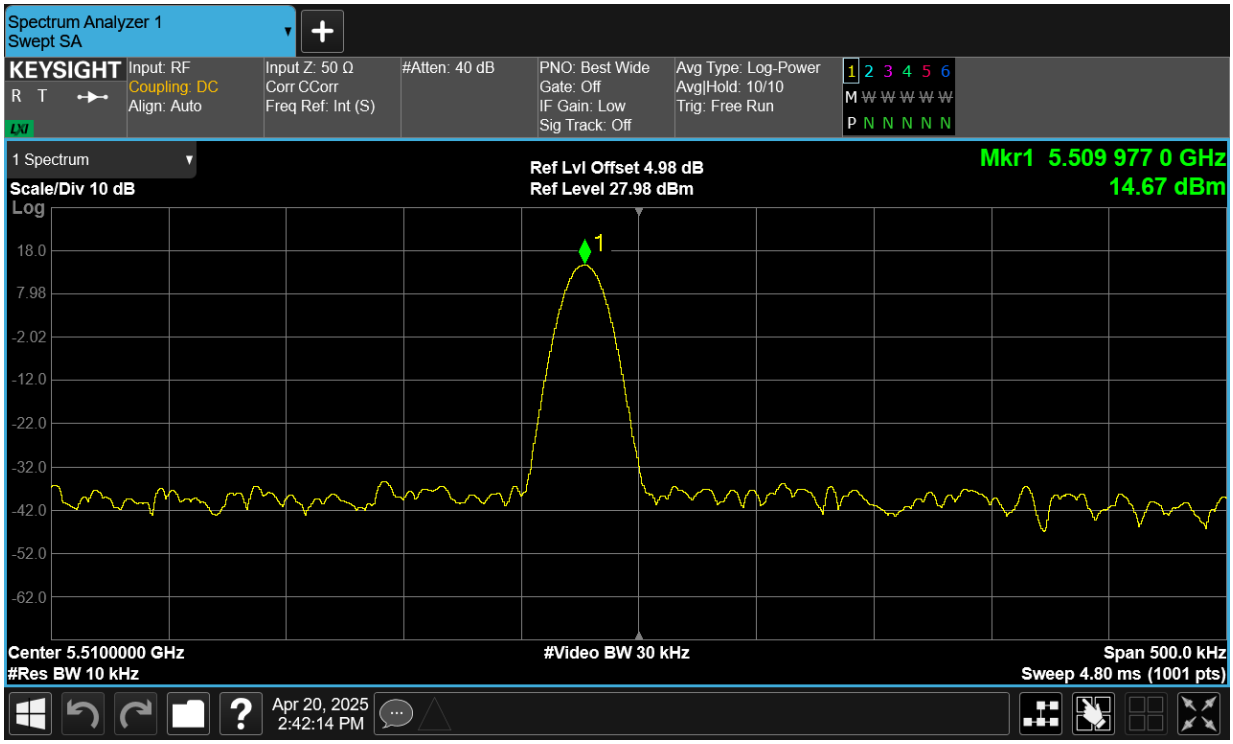
Freq. Stability NVLT ac80 5530MHz Ant1



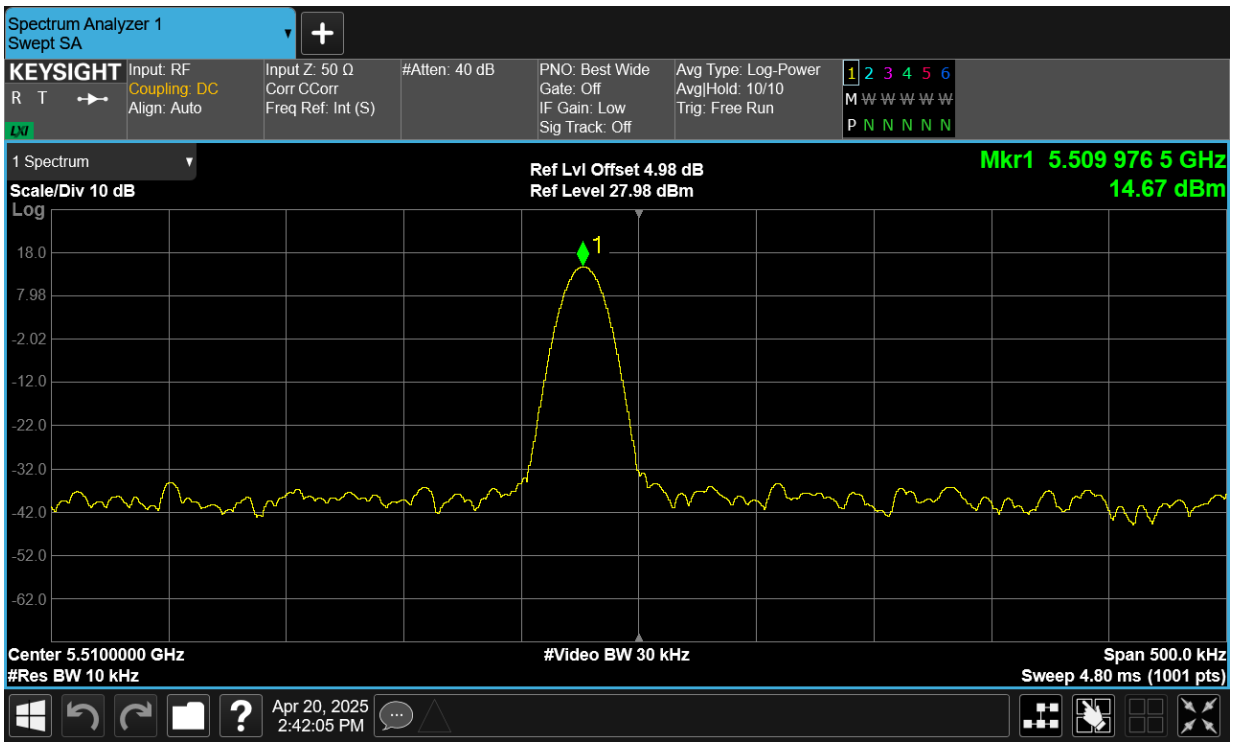
Freq. Stability NVNT ac80 5530MHz Ant1



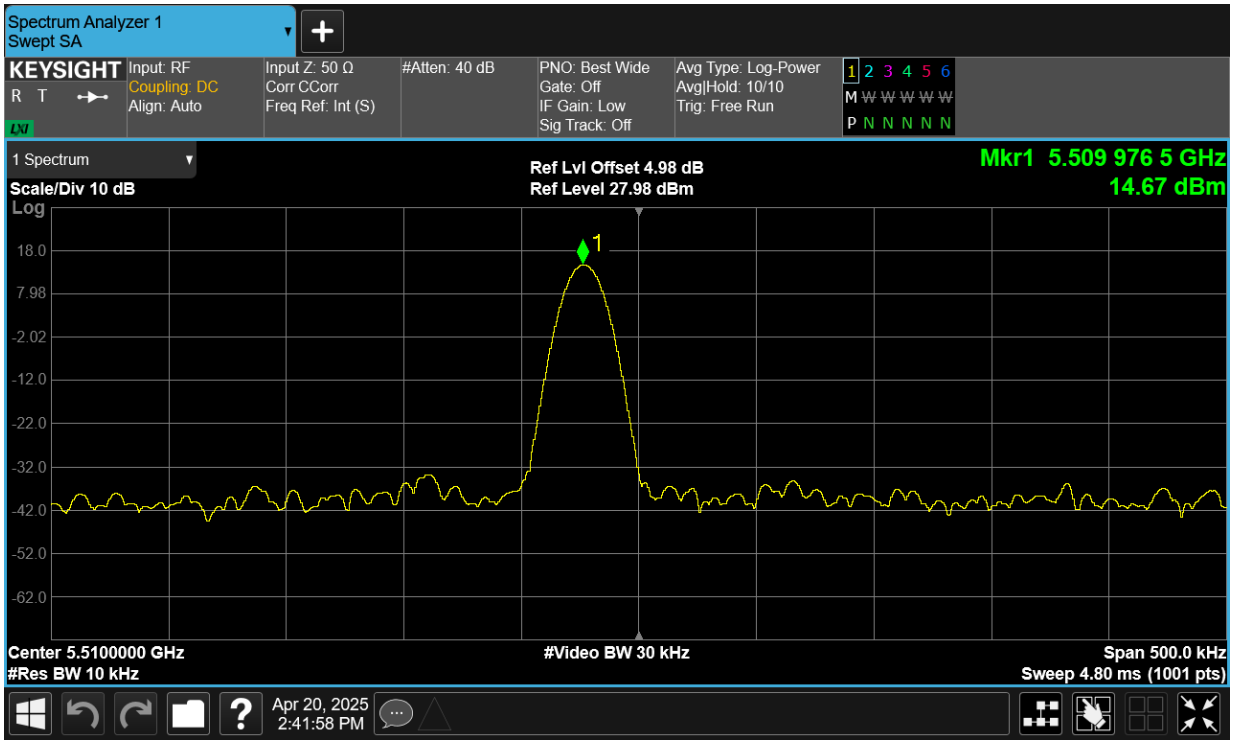
Freq. Stability HVNT n40 5510MHz Ant1



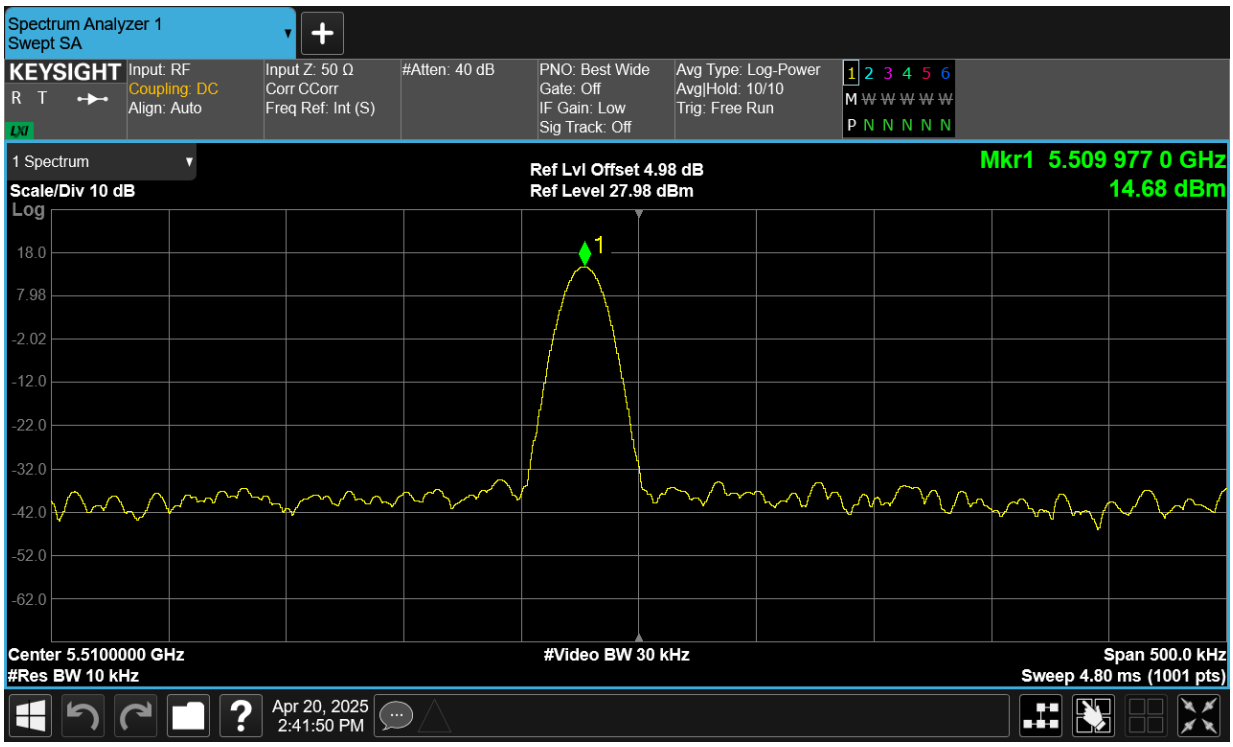
Freq. Stability LVNT n40 5510MHz Ant1



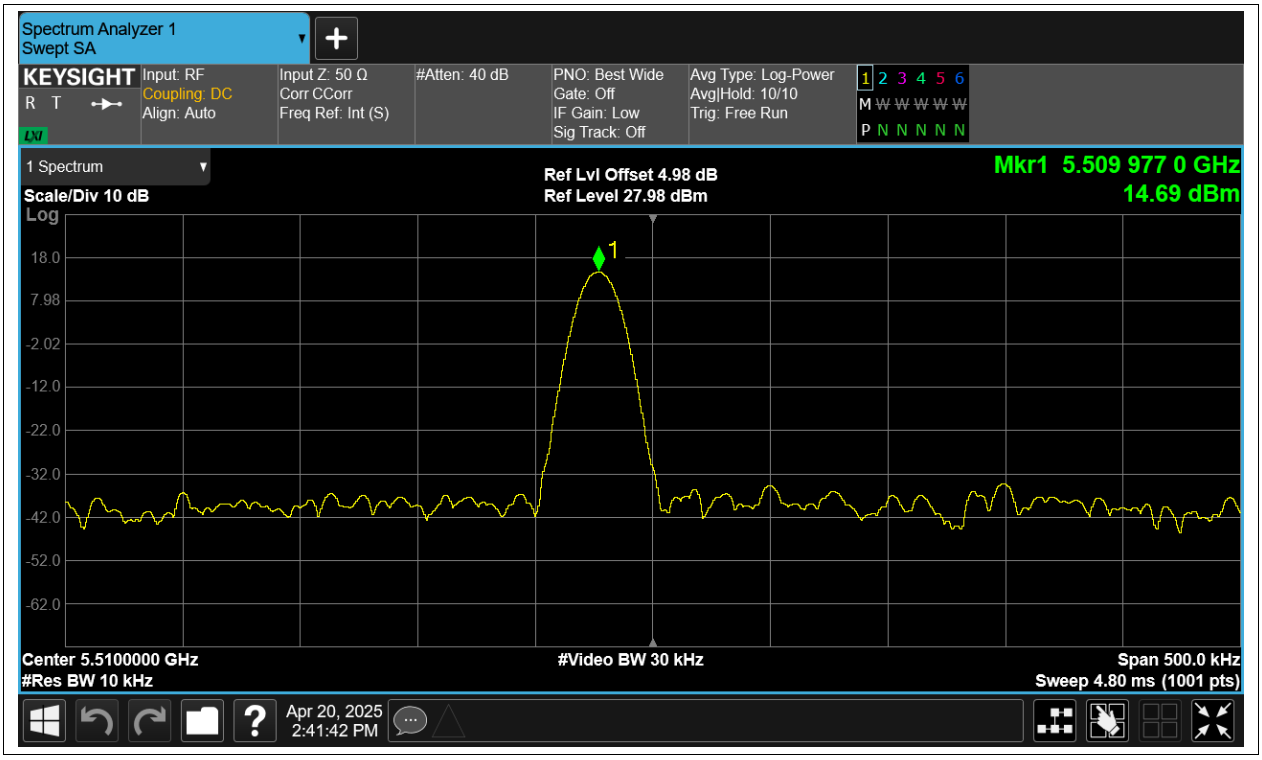
Freq. Stability NVHT n40 5510MHz Ant1



Freq. Stability NVLT n40 5510MHz Ant1



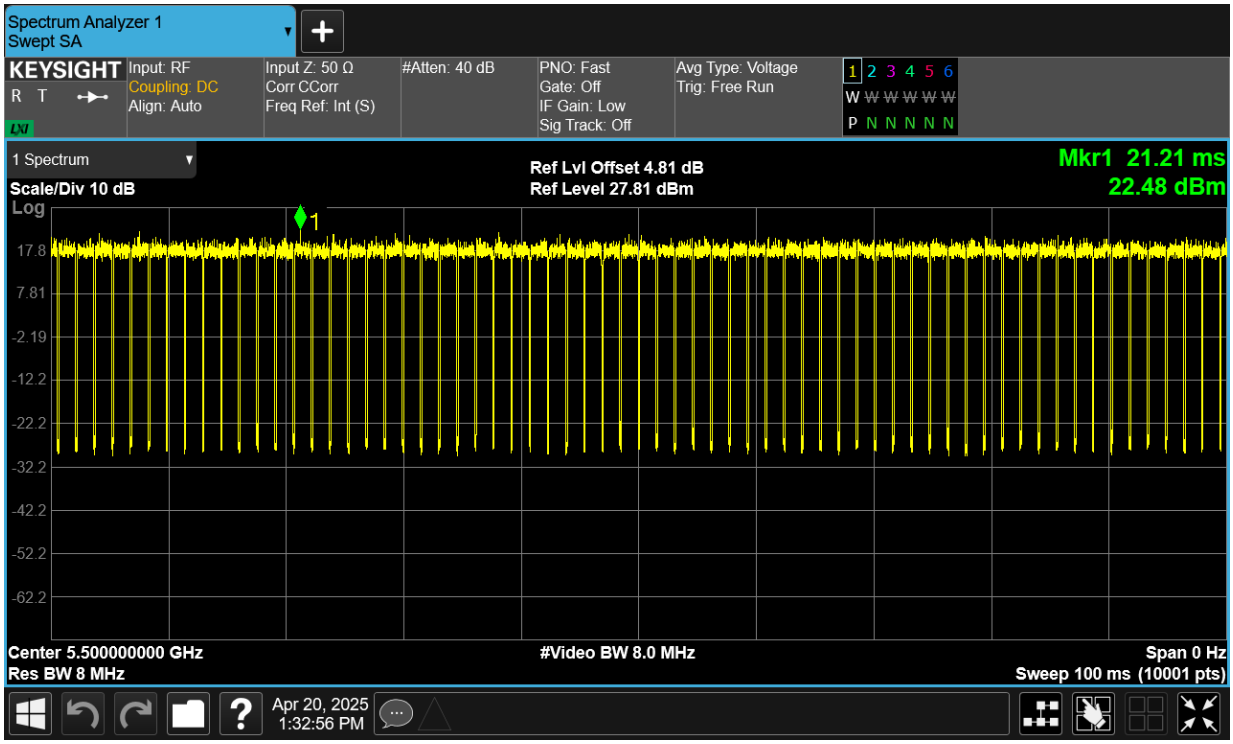
Freq. Stability NVNT n40 5510MHz Ant1


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 4.98 dB
Ref Level 27.98 dBm
Mkr1 5.509 977 0 GHz
14.69 dBm
Log
18.0
7.98
-2.02
-12.0
-22.0
-32.0
-42.0
-52.0
-62.0
Center 5.5100000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 500.0 kHz
Sweep 4.80 ms (1001 pts)
Apr 20, 2025
2:41:42 PM

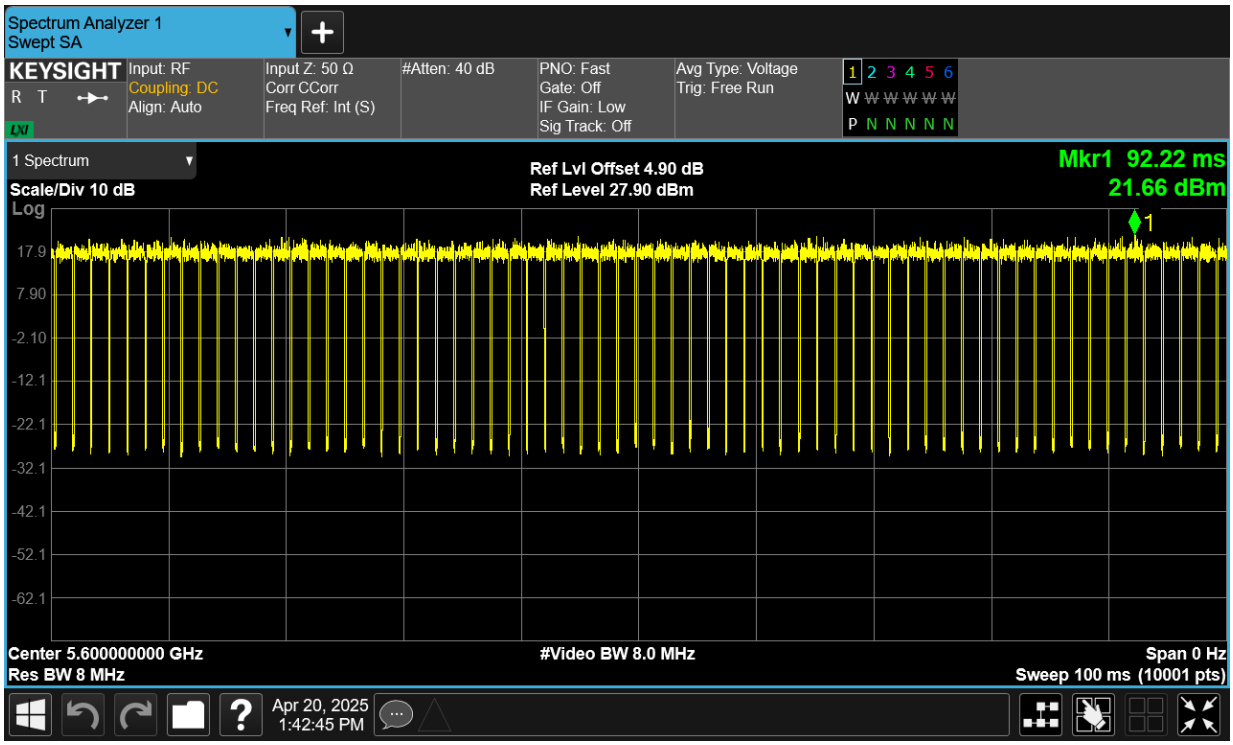
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5500	Ant1	100	0
NVNT	a	5600	Ant1	100	0
NVNT	a	5700	Ant1	100	0
NVNT	ac20	5500	Ant1	100	0
NVNT	ac20	5600	Ant1	100	0
NVNT	ac20	5700	Ant1	100	0
NVNT	ac40	5510	Ant1	100	0
NVNT	ac40	5590	Ant1	100	0
NVNT	ac40	5670	Ant1	100	0
NVNT	ac80	5530	Ant1	100	0
NVNT	ac80	5610	Ant1	100	0
NVNT	n20	5500	Ant1	100	0
NVNT	n20	5600	Ant1	100	0
NVNT	n20	5700	Ant1	100	0
NVNT	n40	5510	Ant1	100	0
NVNT	n40	5590	Ant1	100	0
NVNT	n40	5670	Ant1	100	0

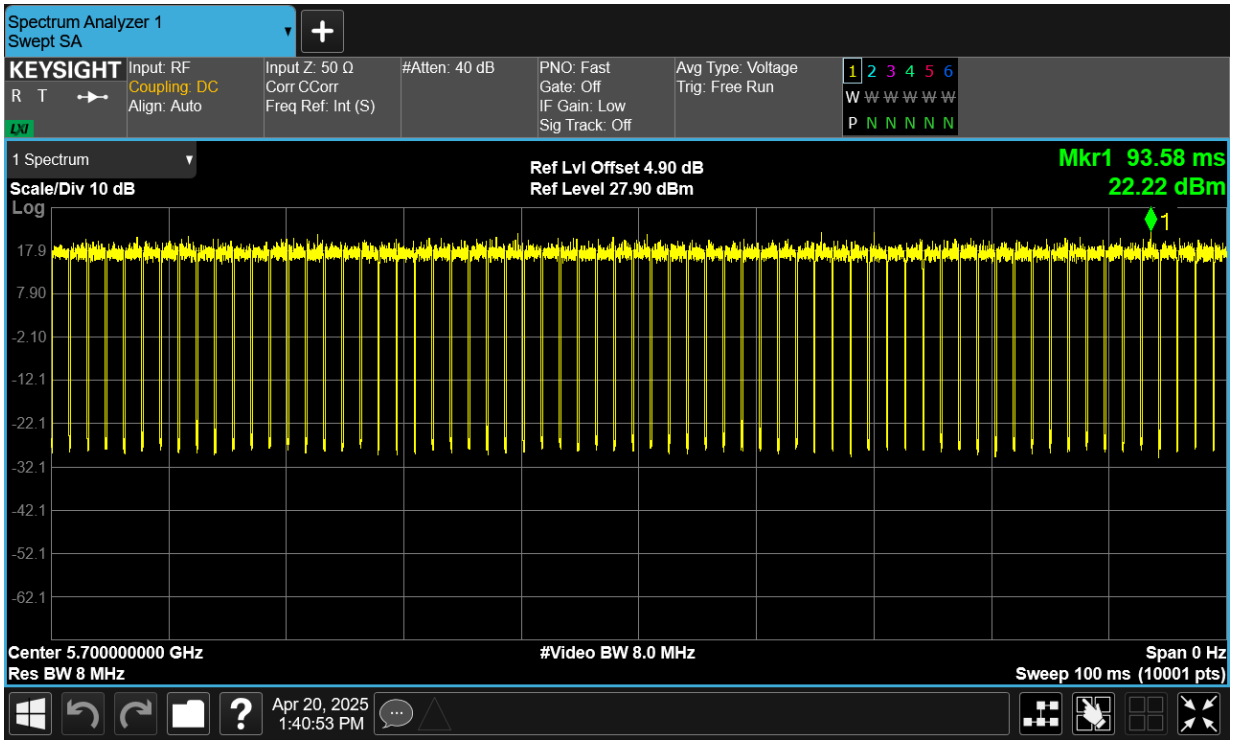
Test Graphs
Duty Cycle NVNT a 5500MHz Ant1



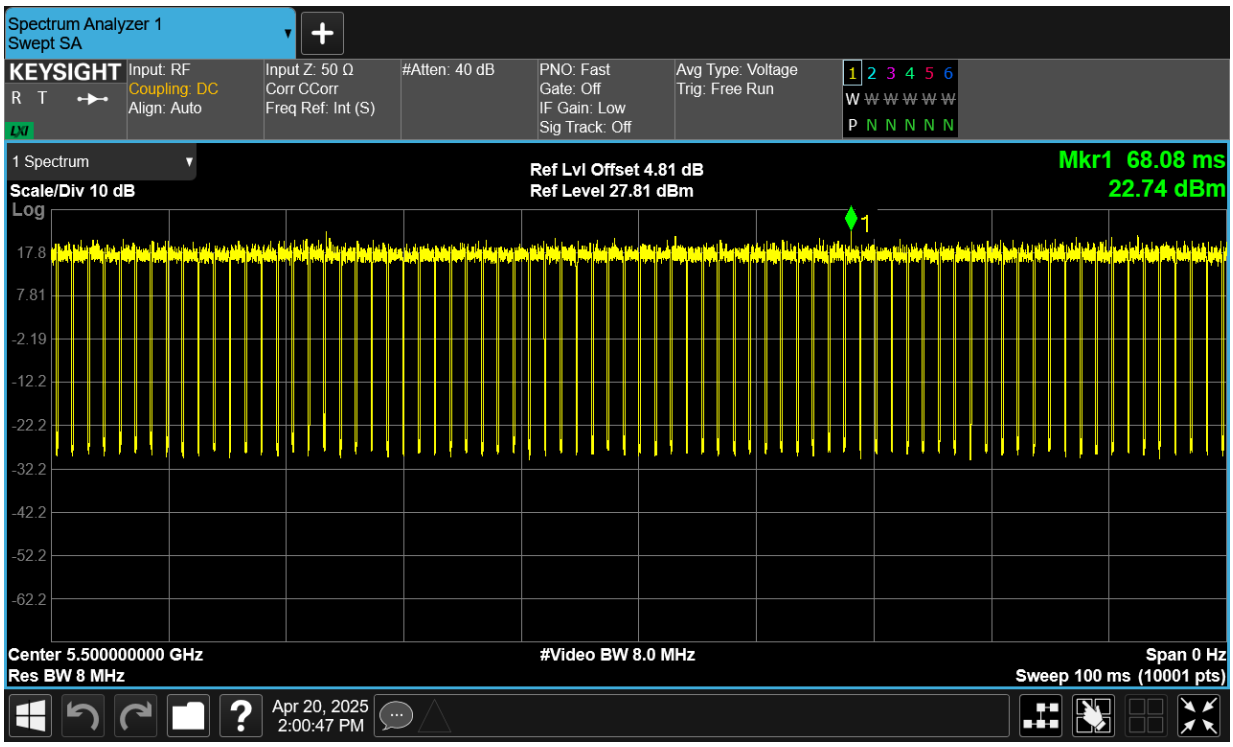
Duty Cycle NVNT a 5600MHz Ant1



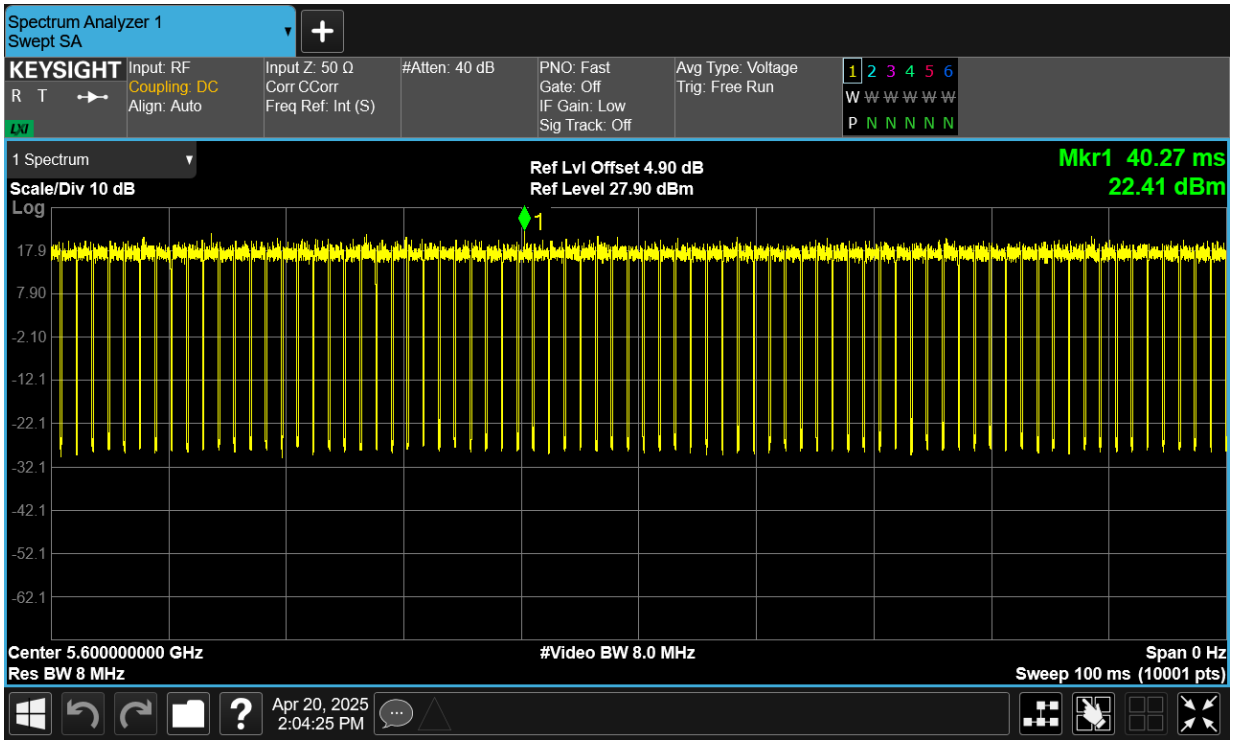
Duty Cycle NVNT a 5700MHz Ant1



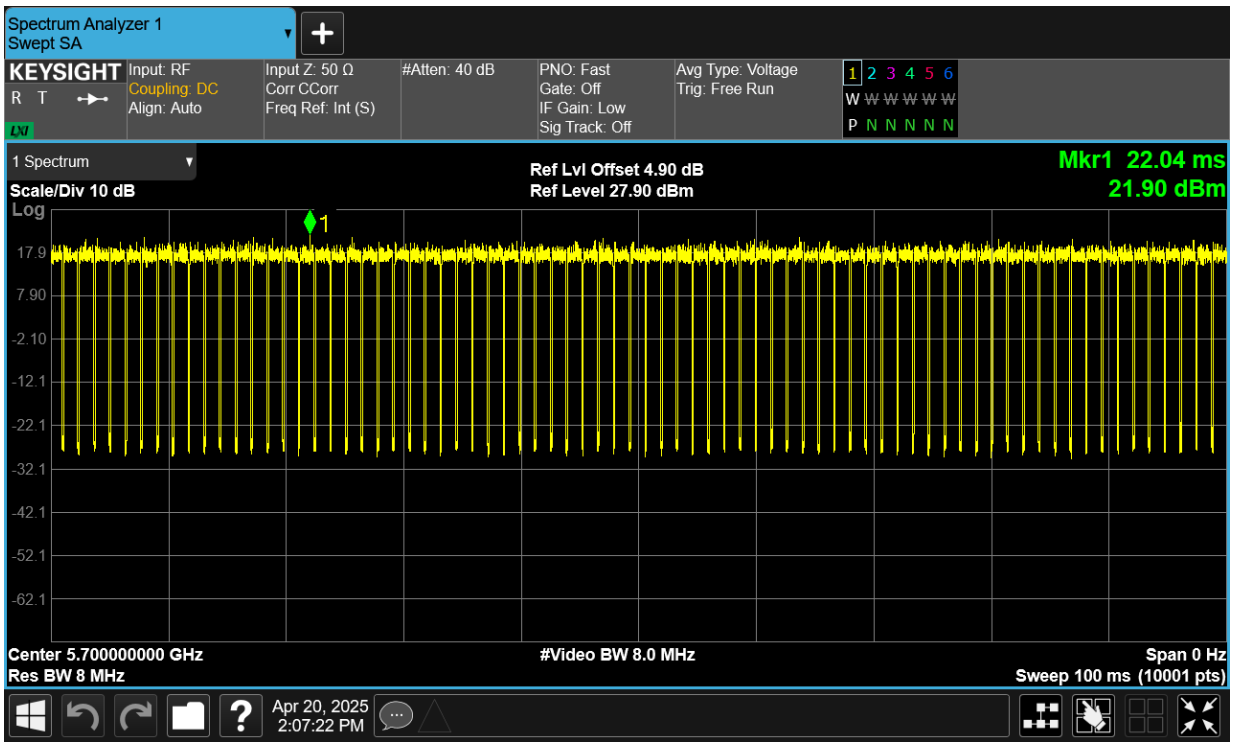
Duty Cycle NVNT ac20 5500MHz Ant1



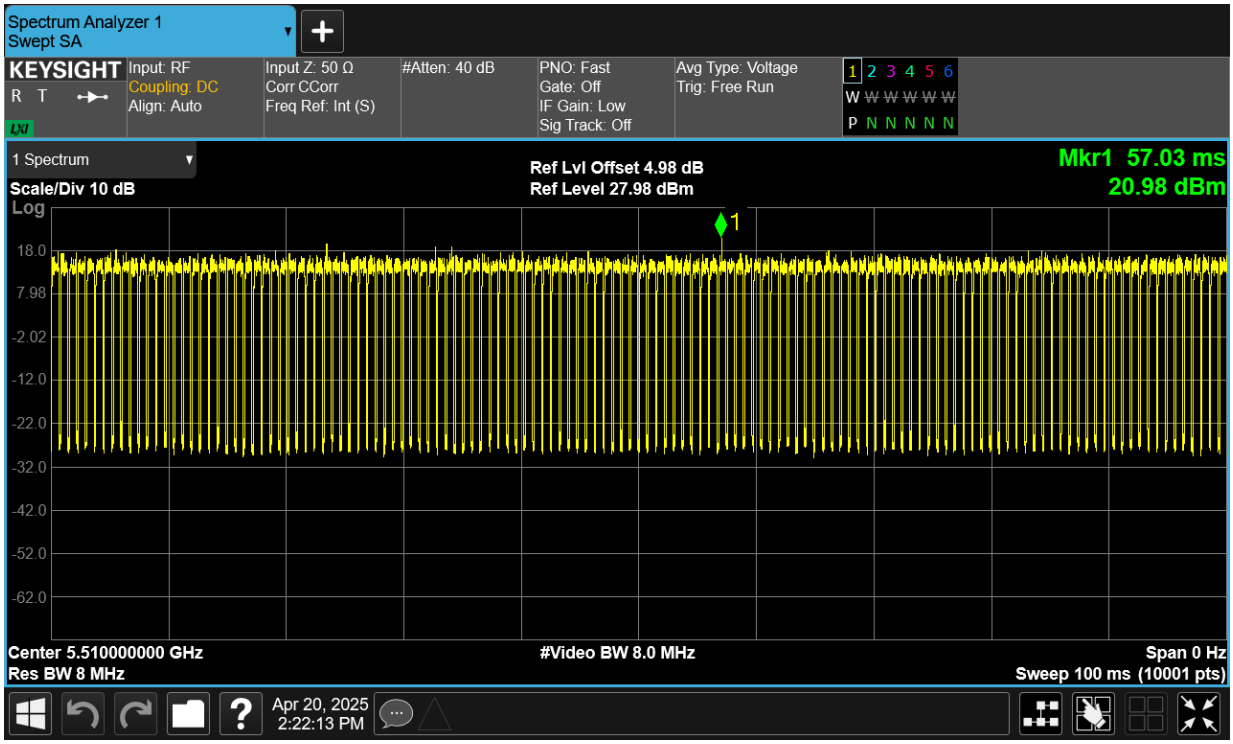
Duty Cycle NVNT ac20 5600MHz Ant1



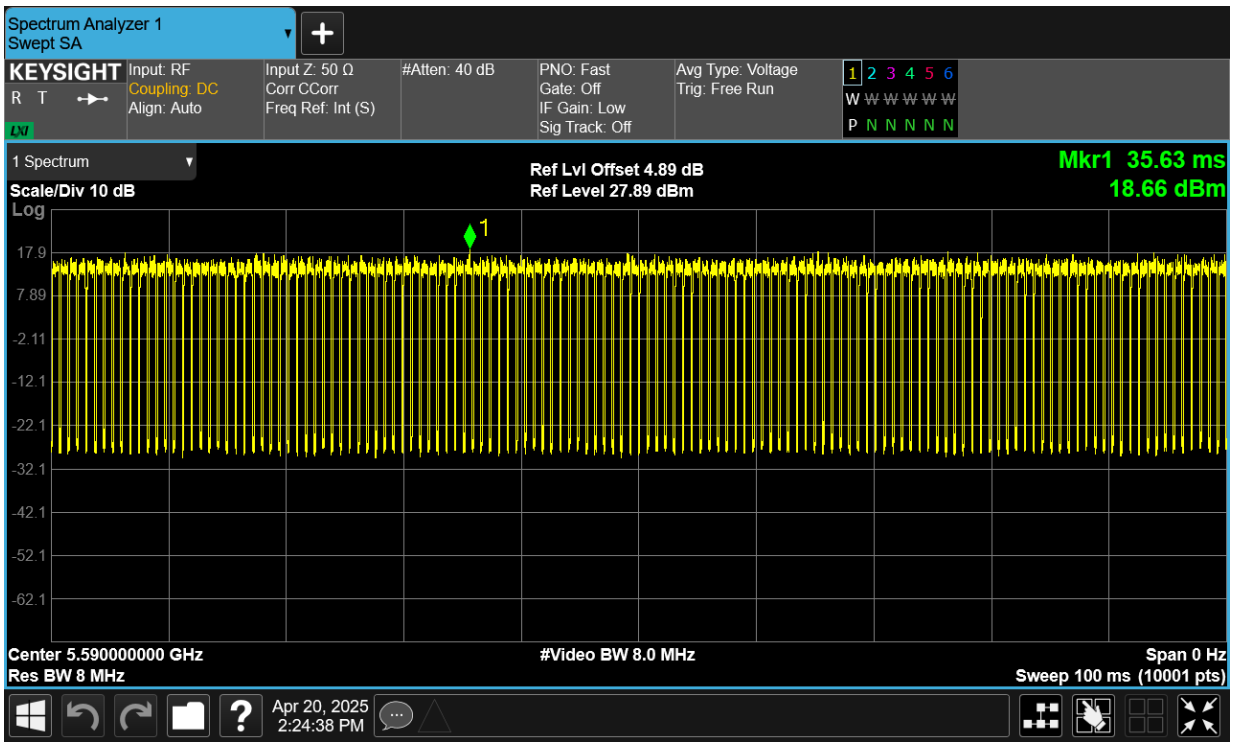
Duty Cycle NVNT ac20 5700MHz Ant1



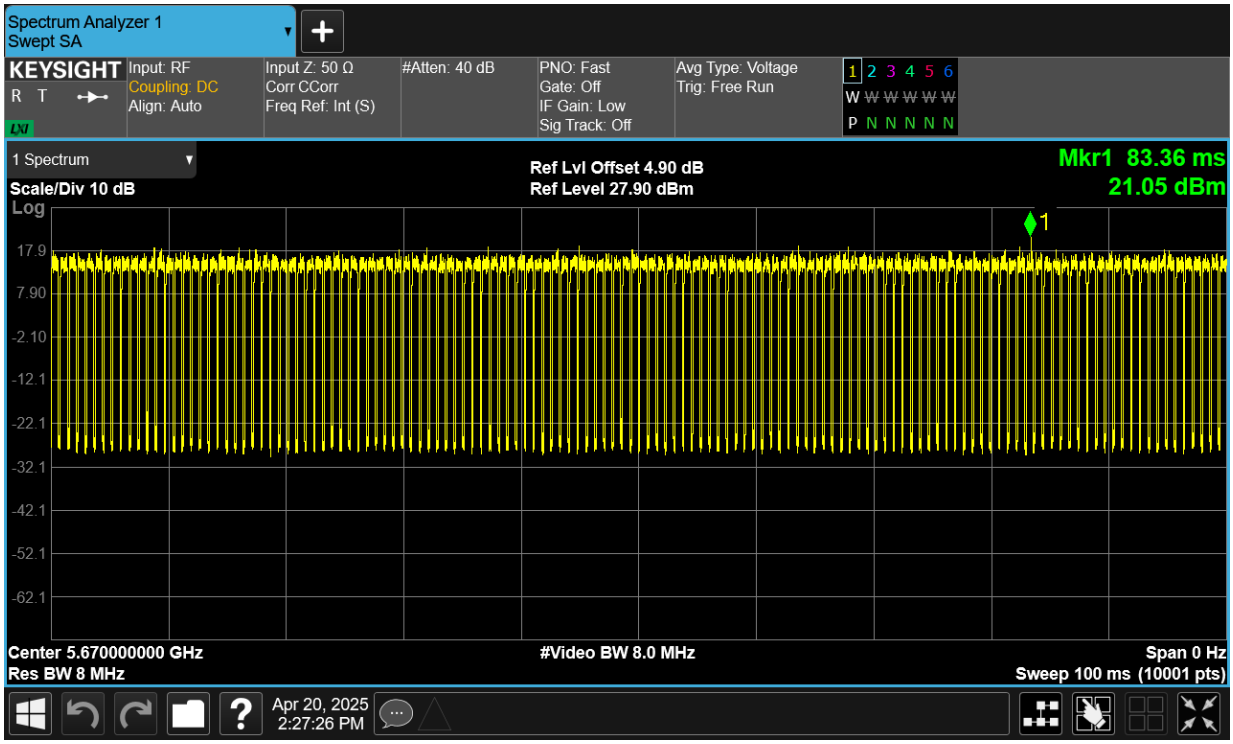
Duty Cycle NVNT ac40 5510MHz Ant1



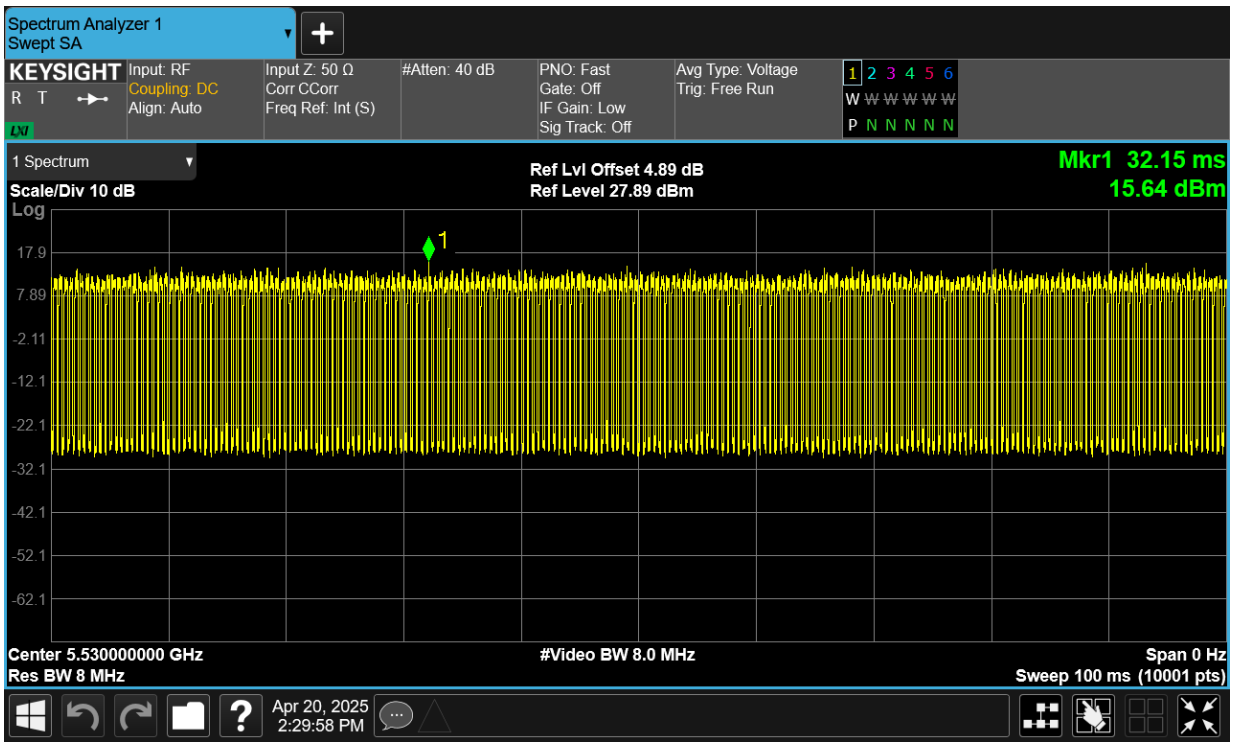
Duty Cycle NVNT ac40 5590MHz Ant1



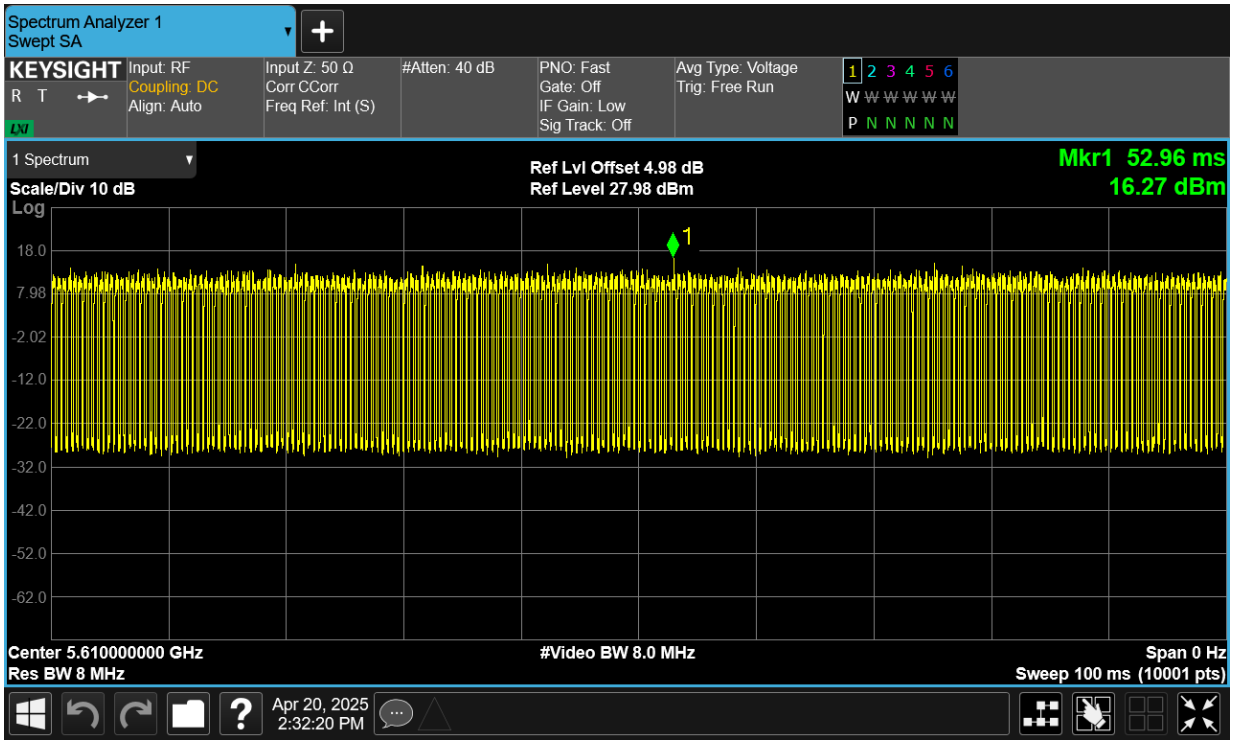
Duty Cycle NVNT ac40 5670MHz Ant1



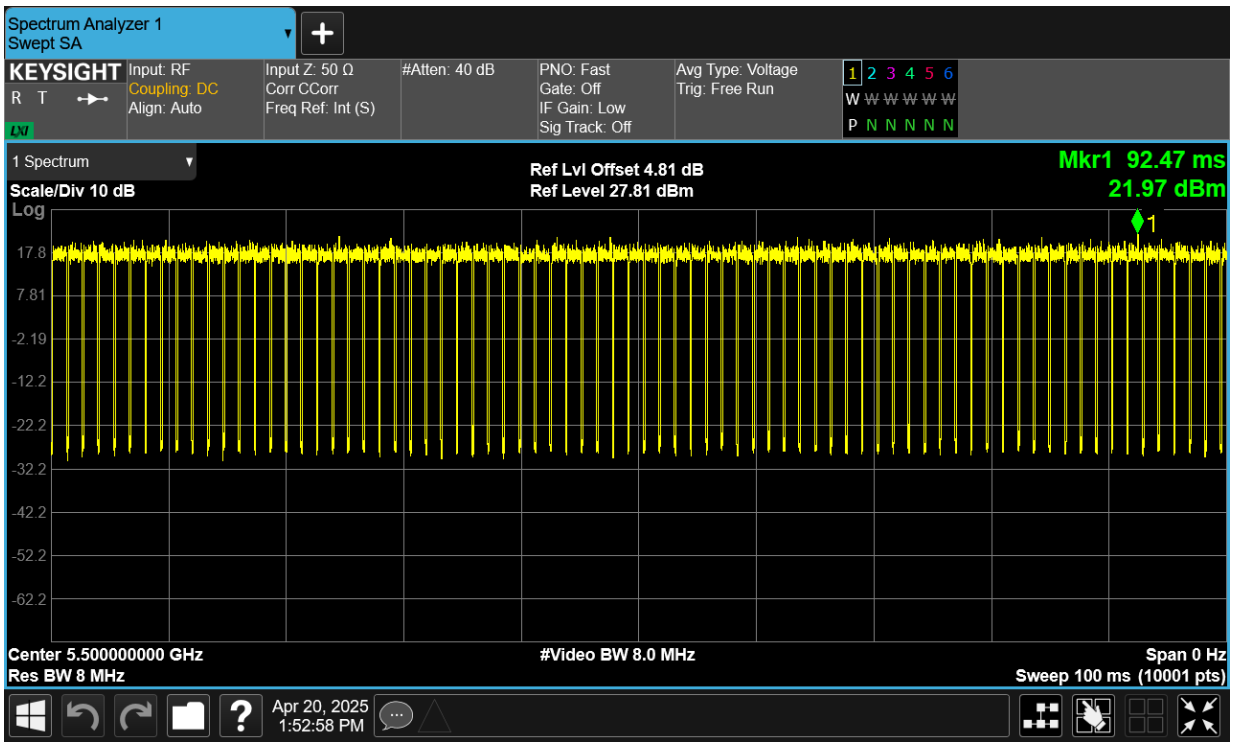
Duty Cycle NVNT ac80 5530MHz Ant1



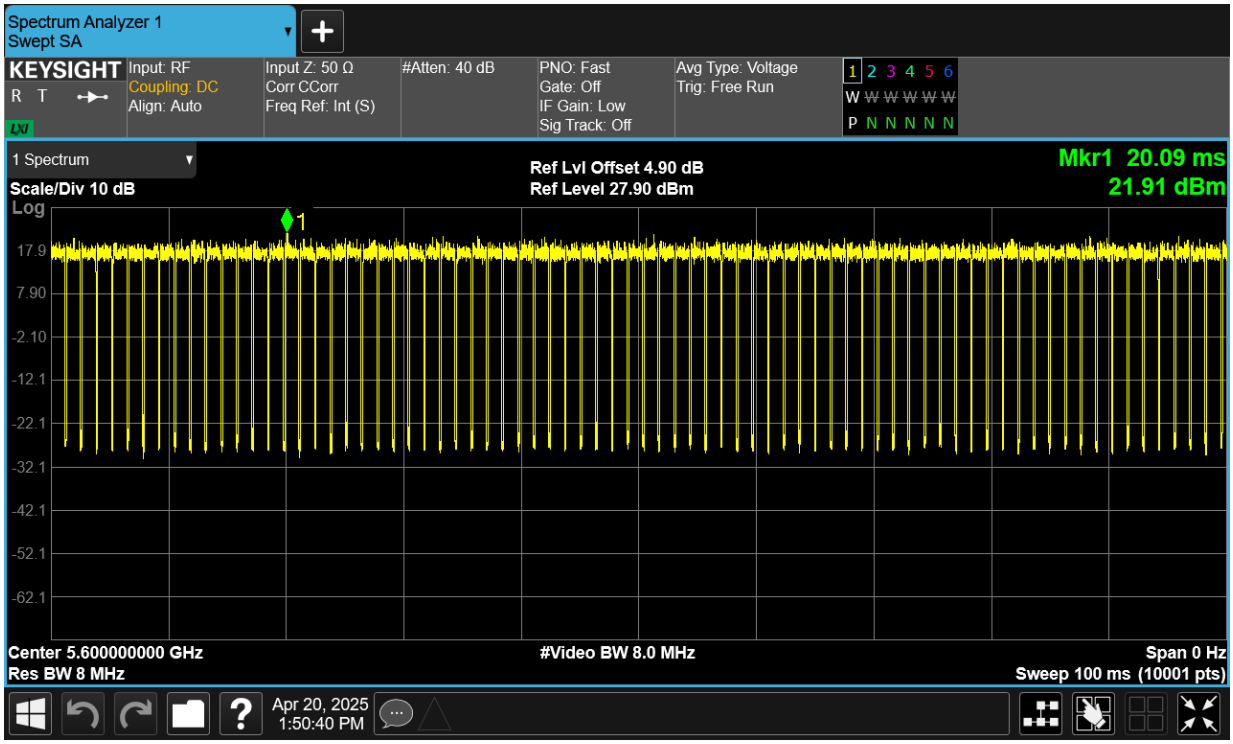
Duty Cycle NVNT ac80 5610MHz Ant1



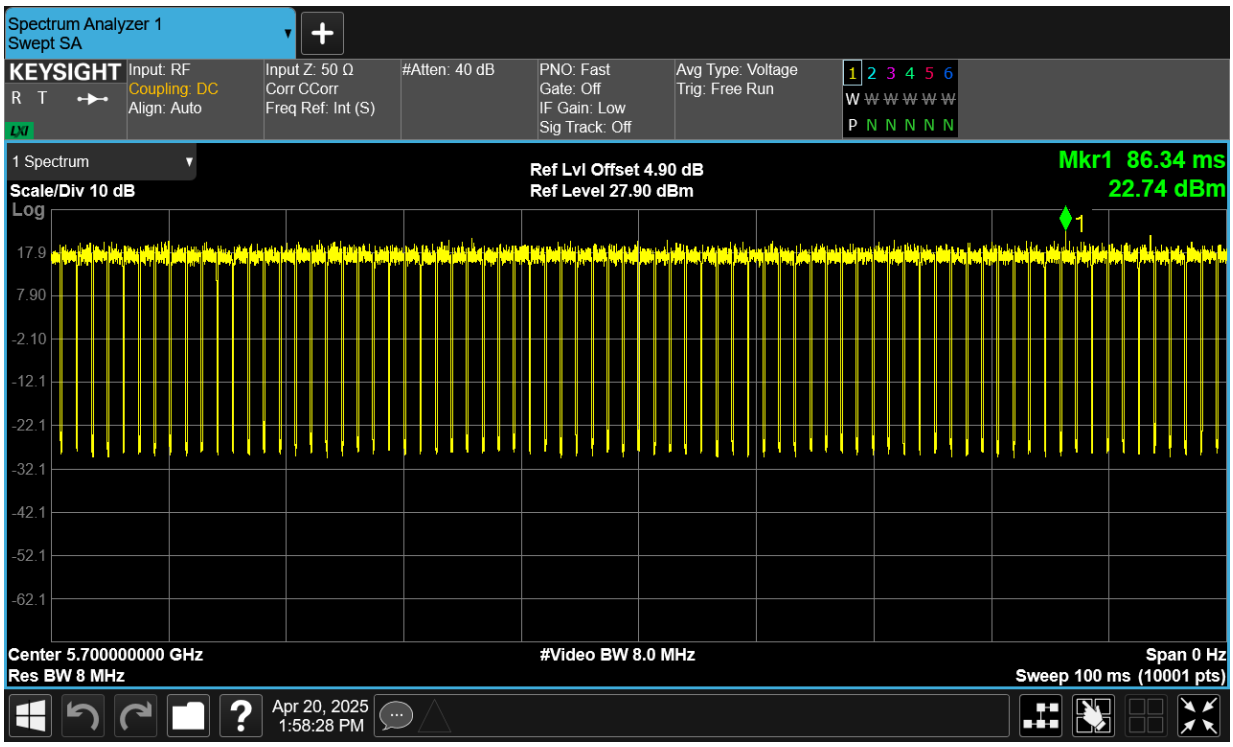
Duty Cycle NVNT n20 5500MHz Ant1



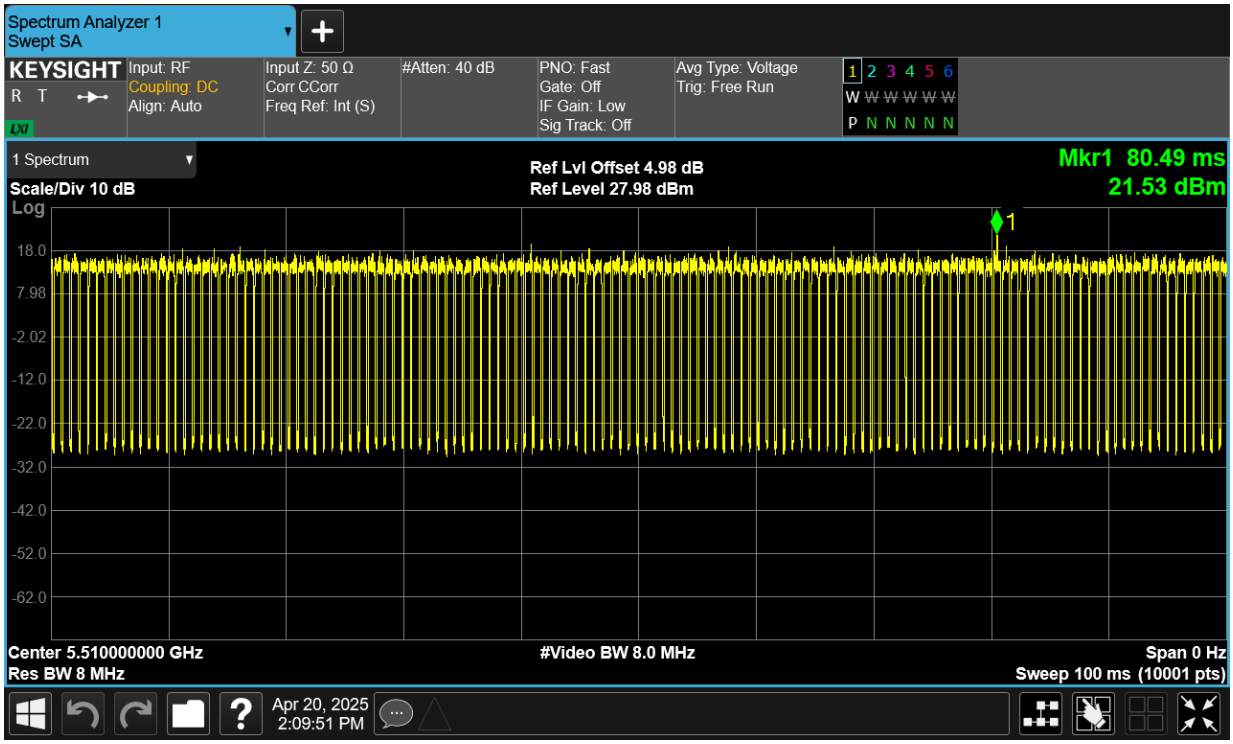
Duty Cycle NVNT n20 5600MHz Ant1



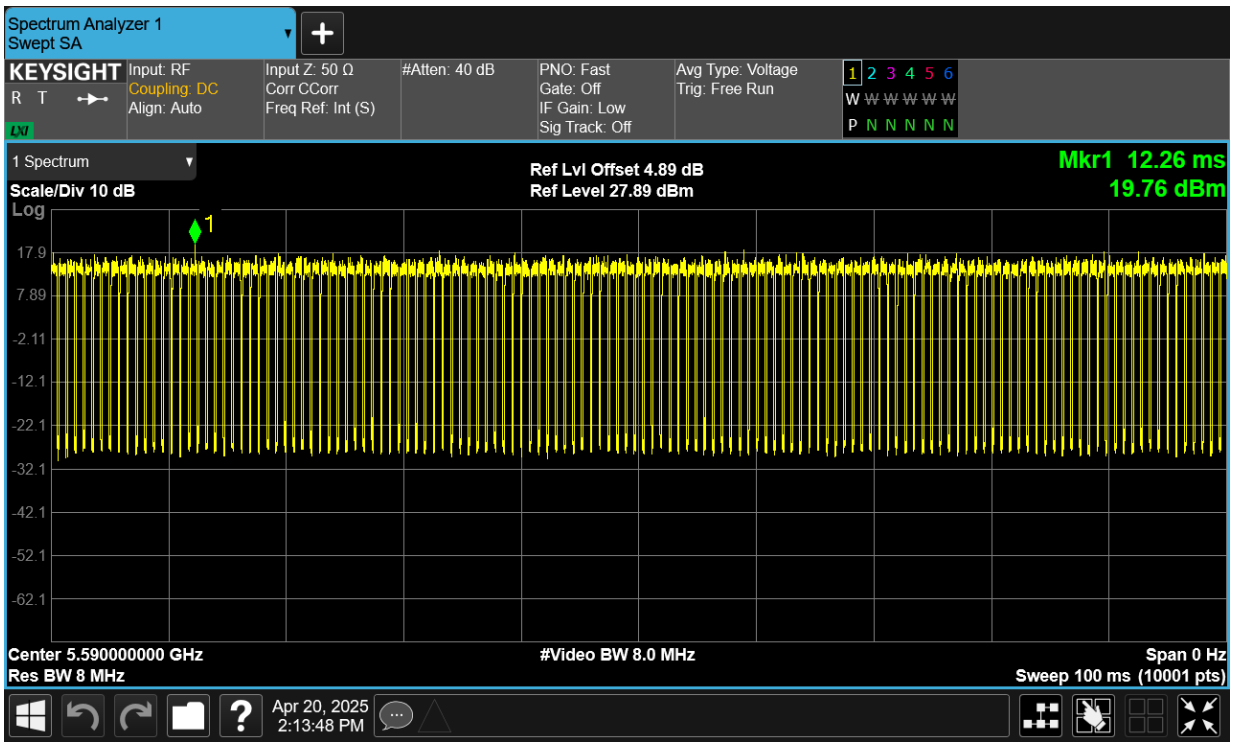
Duty Cycle NVNT n20 5700MHz Ant1



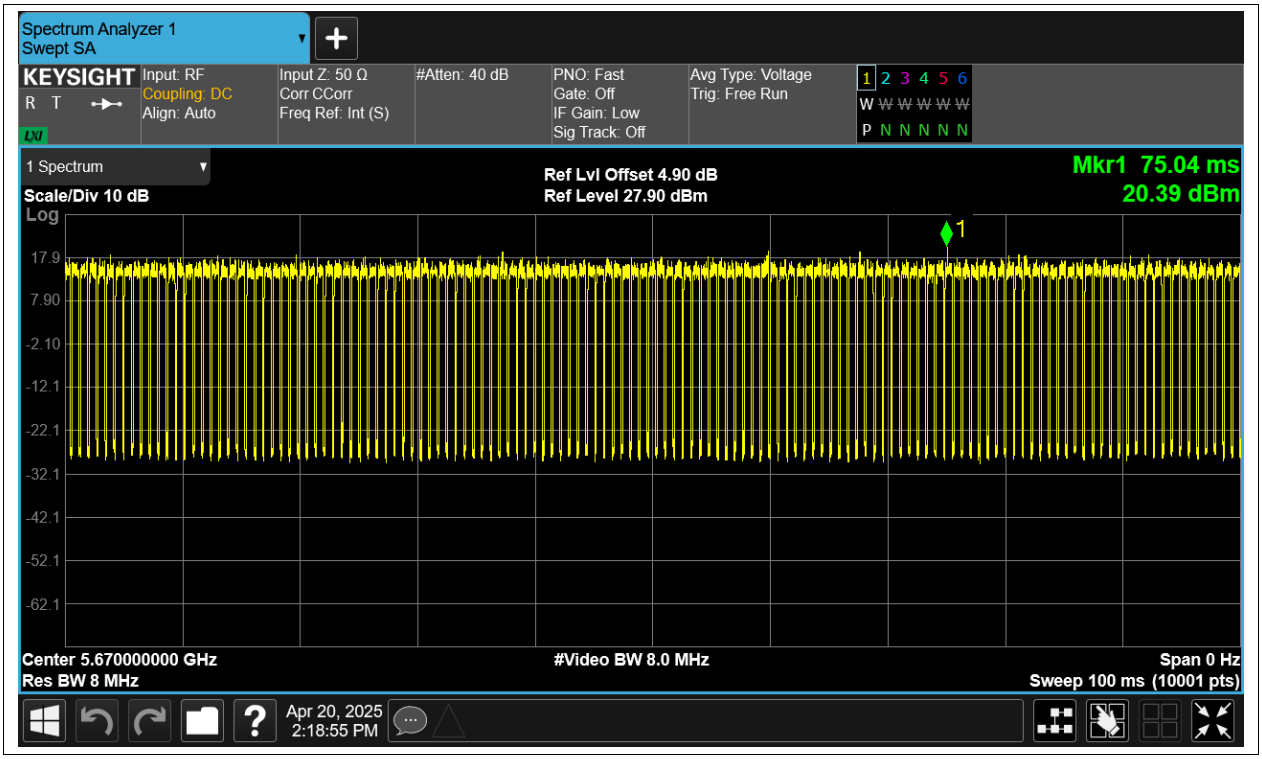
Duty Cycle NVNT n40 5510MHz Ant1



Duty Cycle NVNT n40 5590MHz Ant1



Duty Cycle NVNT n40 5670MHz 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: Voltage
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 4.90 dB
Ref Level 27.90 dBm
Mkr1 75.04 ms
20.39 dBm
17.9
7.90
-2.10
-12.1
-22.1
-32.1
-42.1
-52.1
-62.1
Center 5.670000000 GHz
Res BW 8 MHz
#Video BW 8.0 MHz
Span 0 Hz
Sweep 100 ms (10001 pts)
Apr 20, 2025
2:18:55 PM

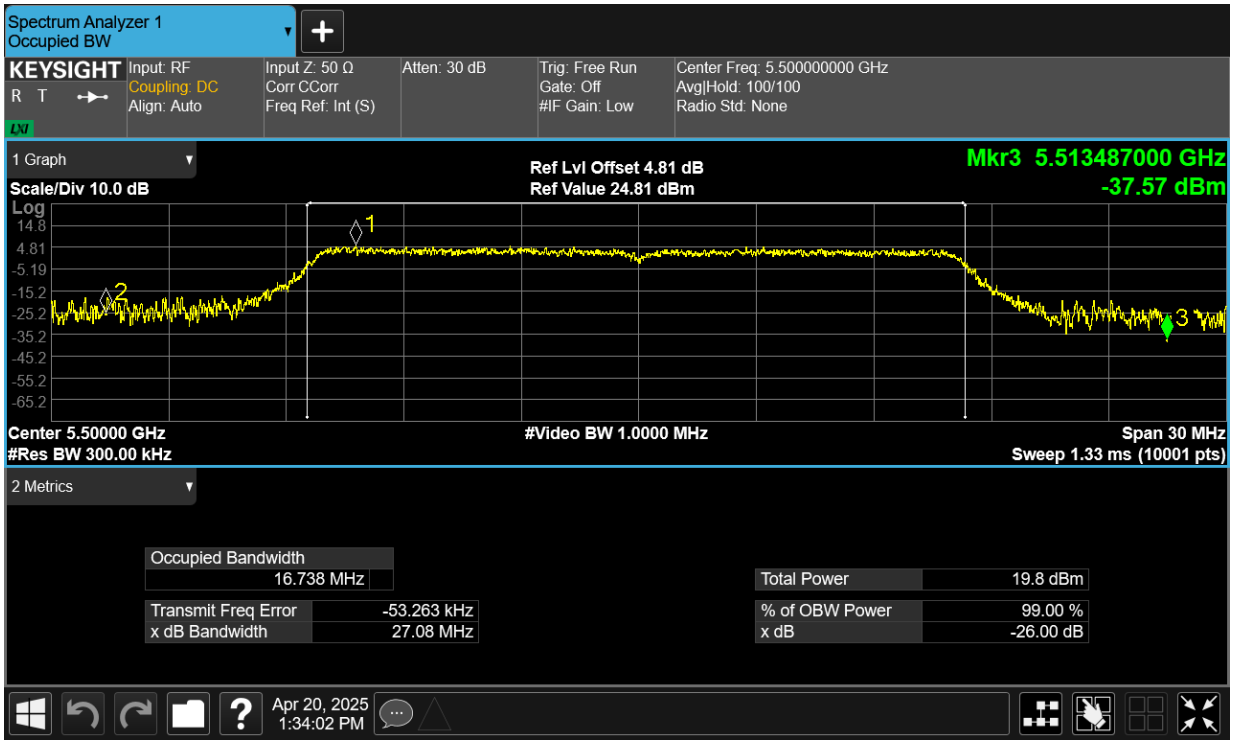
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	14.75	0	14.75	24	Pass
NVNT	a	5600	Ant1	13.02	0	13.02	24	Pass
NVNT	a	5700	Ant1	13.27	0	13.27	24	Pass
NVNT	ac20	5500	Ant1	14.52	0	14.52	24	Pass
NVNT	ac20	5600	Ant1	13.04	0	13.04	24	Pass
NVNT	ac20	5700	Ant1	13.36	0	13.36	24	Pass
NVNT	ac40	5510	Ant1	14.88	0	14.88	24	Pass
NVNT	ac40	5590	Ant1	13.9	0	13.9	24	Pass
NVNT	ac40	5670	Ant1	14.12	0	14.12	24	Pass
NVNT	ac80	5530	Ant1	13.85	0	13.85	24	Pass
NVNT	ac80	5610	Ant1	13.15	0	13.15	24	Pass
NVNT	n20	5500	Ant1	14.49	0	14.49	24	Pass
NVNT	n20	5600	Ant1	13.01	0	13.01	24	Pass
NVNT	n20	5700	Ant1	13.32	0	13.32	24	Pass
NVNT	n40	5510	Ant1	14.85	0	14.85	24	Pass
NVNT	n40	5590	Ant1	13.89	0	13.89	24	Pass
NVNT	n40	5670	Ant1	14.16	0	14.16	24	Pass

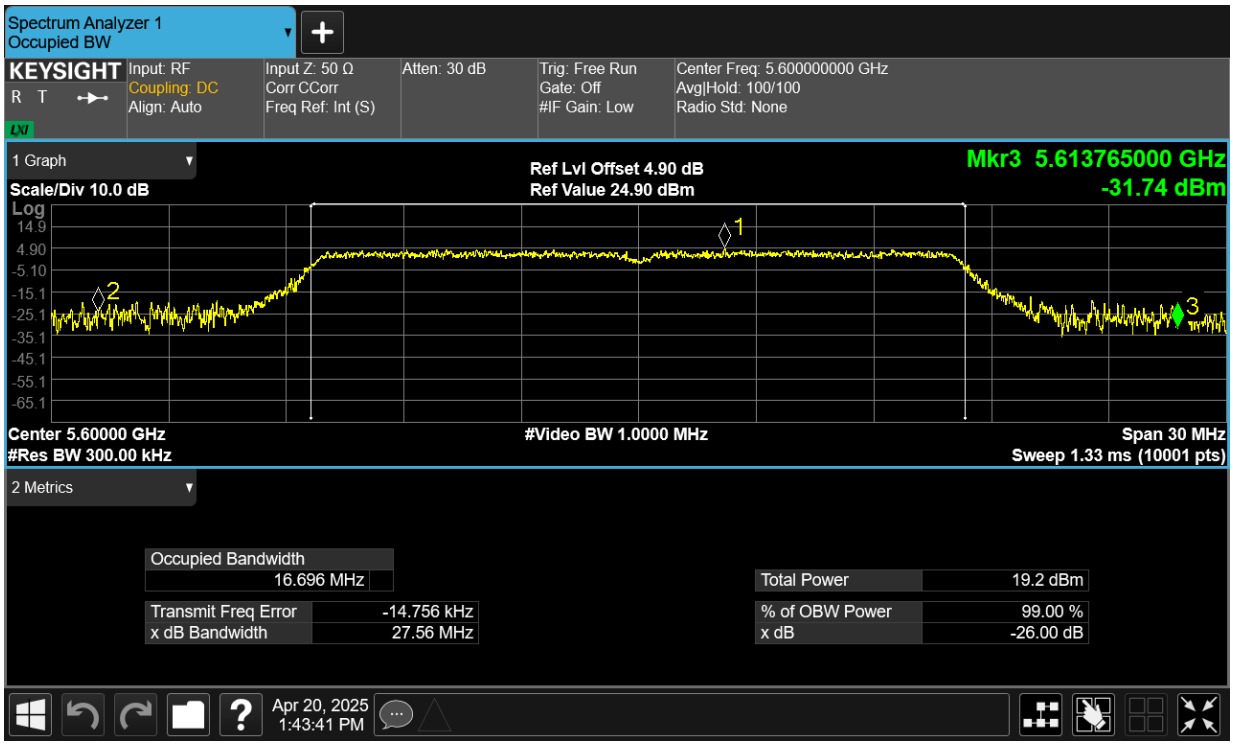
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5500	Ant1	27.08
NVNT	a	5600	Ant1	27.56
NVNT	a	5700	Ant1	27.209
NVNT	ac20	5500	Ant1	28.578
NVNT	ac20	5600	Ant1	25.364
NVNT	ac20	5700	Ant1	27.714
NVNT	ac40	5510	Ant1	50.267
NVNT	ac40	5590	Ant1	53.641
NVNT	ac40	5670	Ant1	54.187
NVNT	ac80	5530	Ant1	78.561
NVNT	ac80	5610	Ant1	78.026
NVNT	n20	5500	Ant1	29.655
NVNT	n20	5600	Ant1	29.055
NVNT	n20	5700	Ant1	29.506
NVNT	n40	5510	Ant1	55.758
NVNT	n40	5590	Ant1	57.074
NVNT	n40	5670	Ant1	55.321

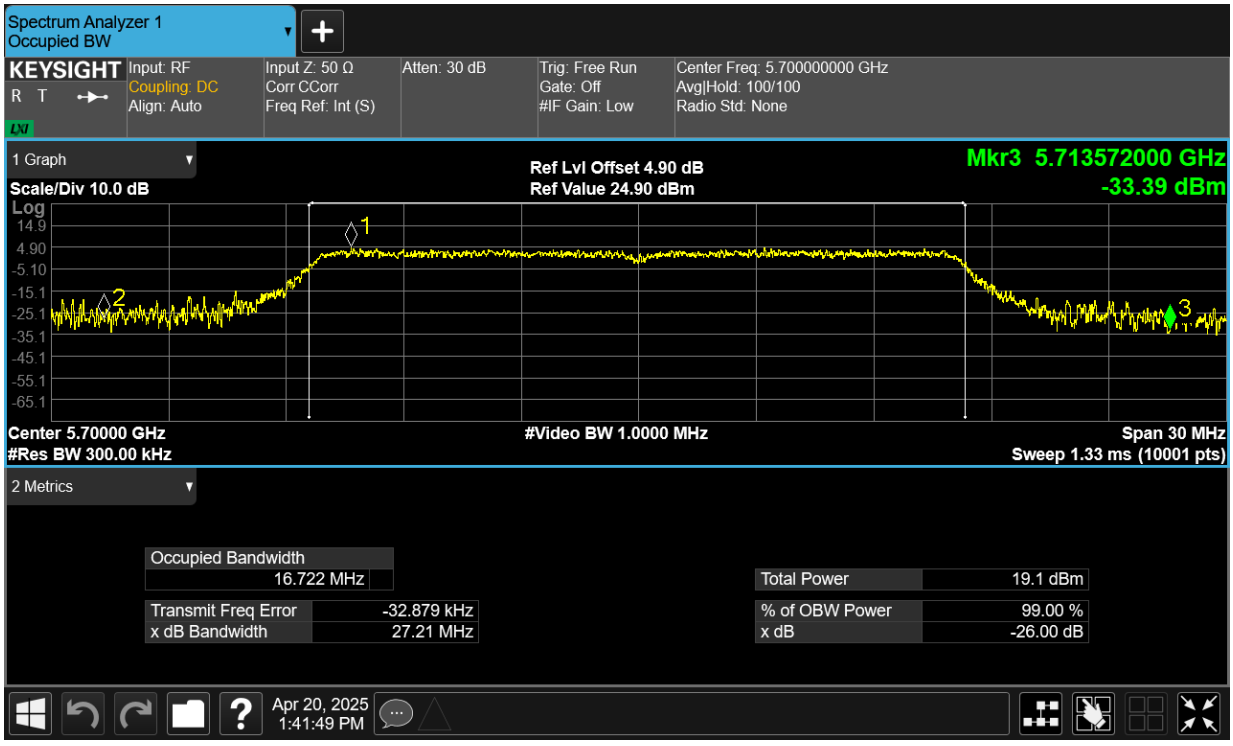
Test Graphs
-26dB Bandwidth NVNT a 5500MHz Ant1



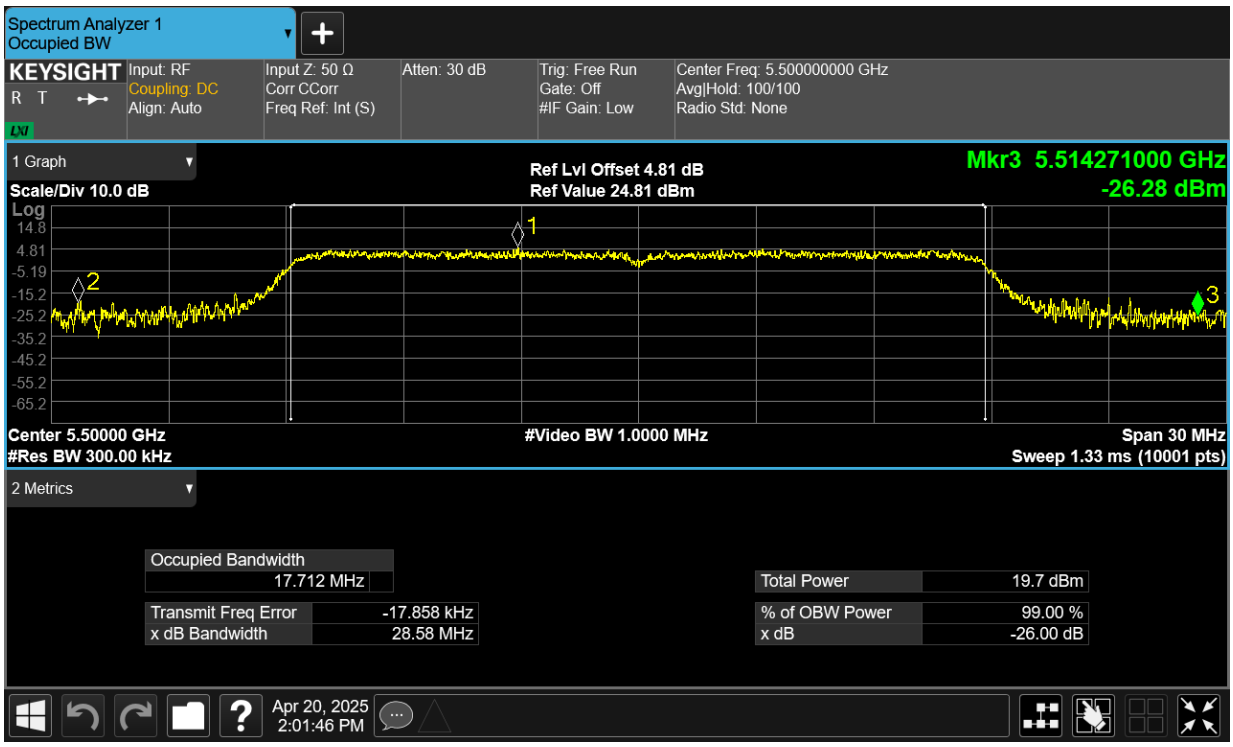
-26dB Bandwidth NVNT a 5600MHz Ant1



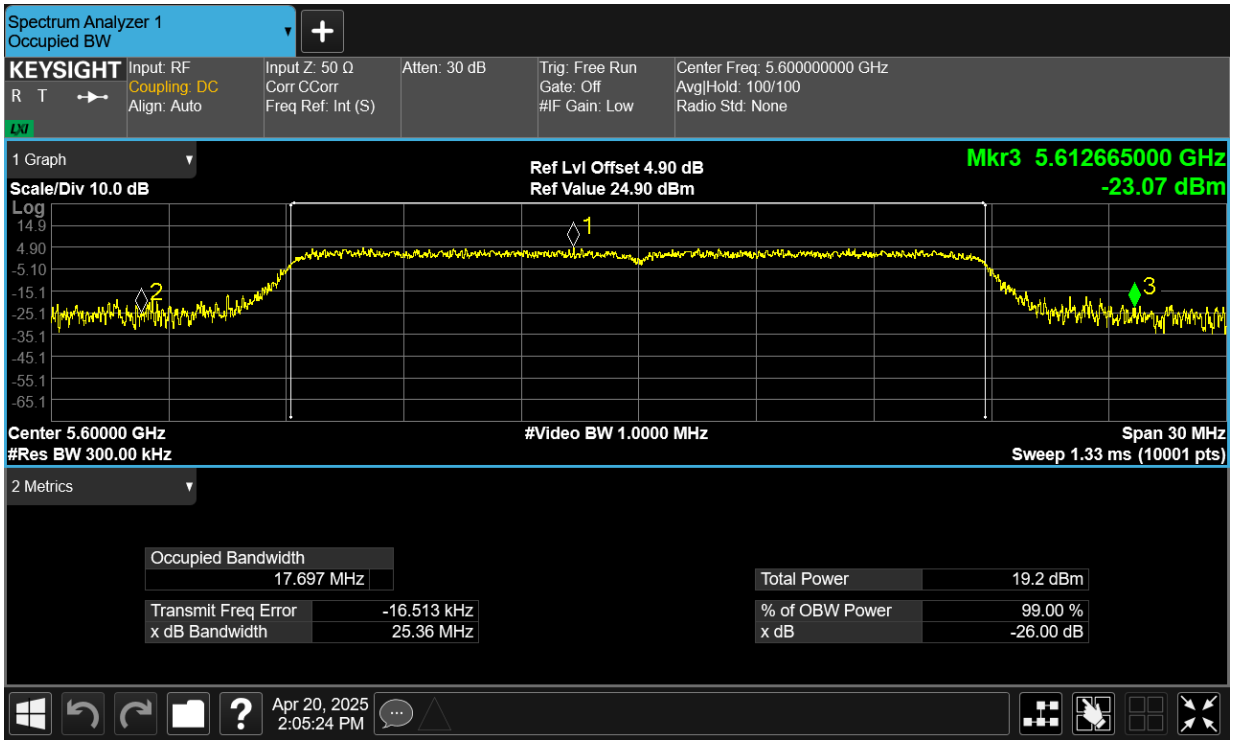
-26dB Bandwidth NVNT a 5700MHz Ant1



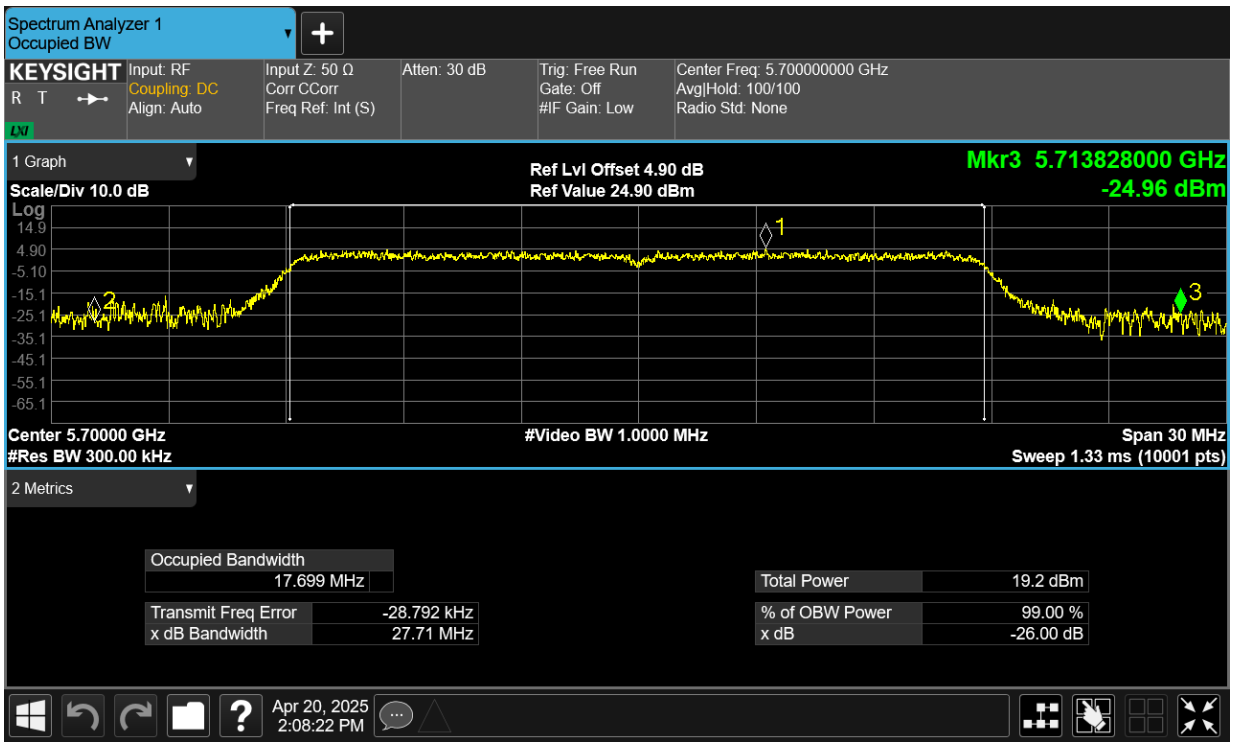
-26dB Bandwidth NVNT ac20 5500MHz Ant1



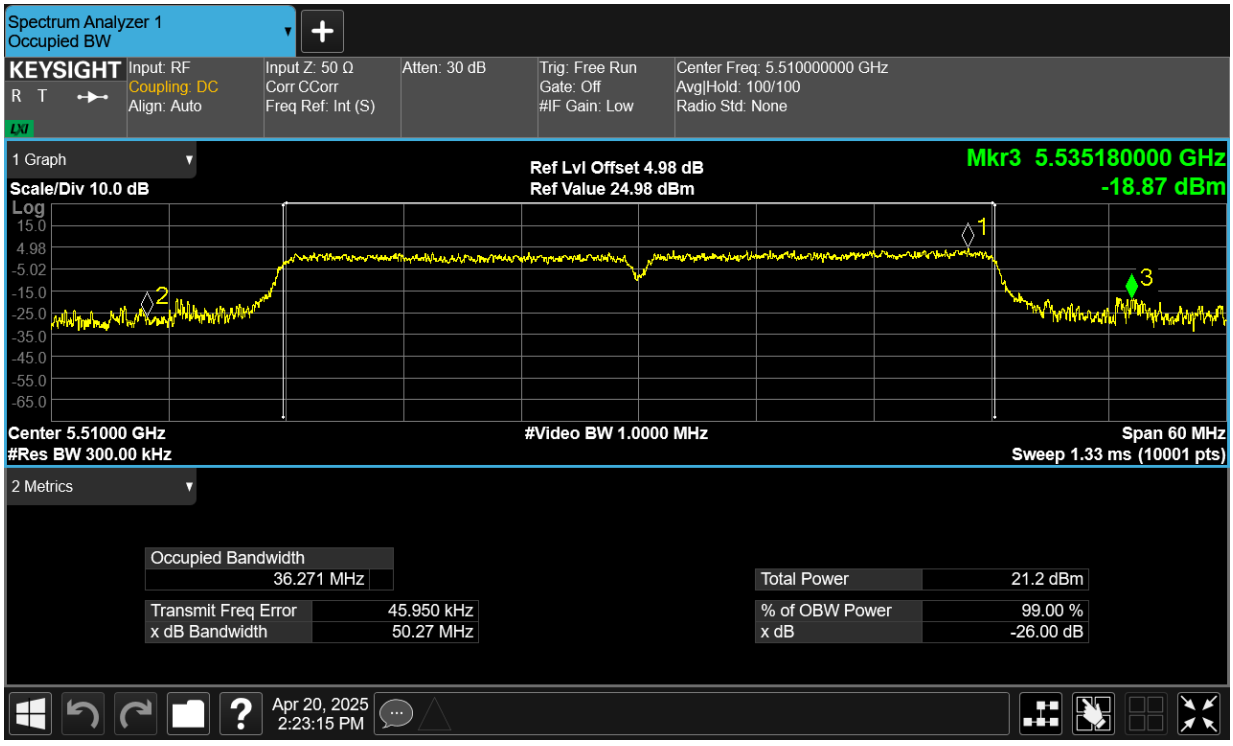
-26dB Bandwidth NVNT ac20 5600MHz Ant1



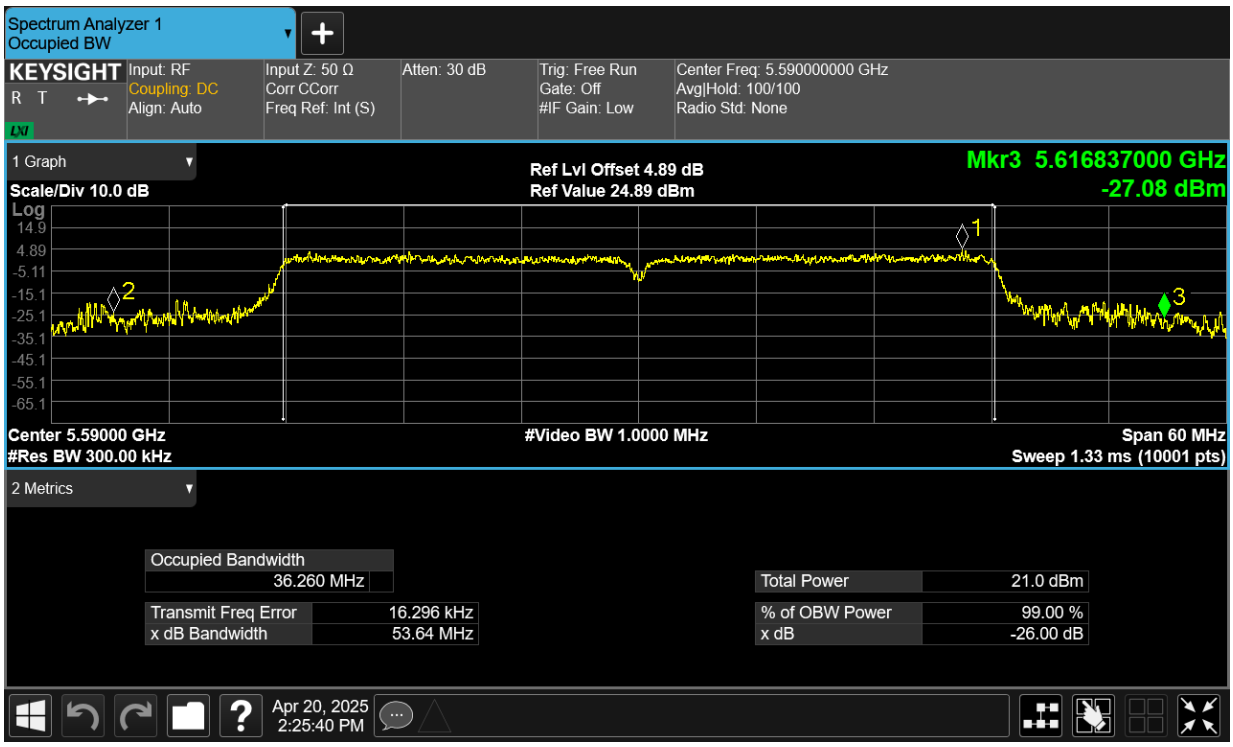
-26dB Bandwidth NVNT ac20 5700MHz Ant1



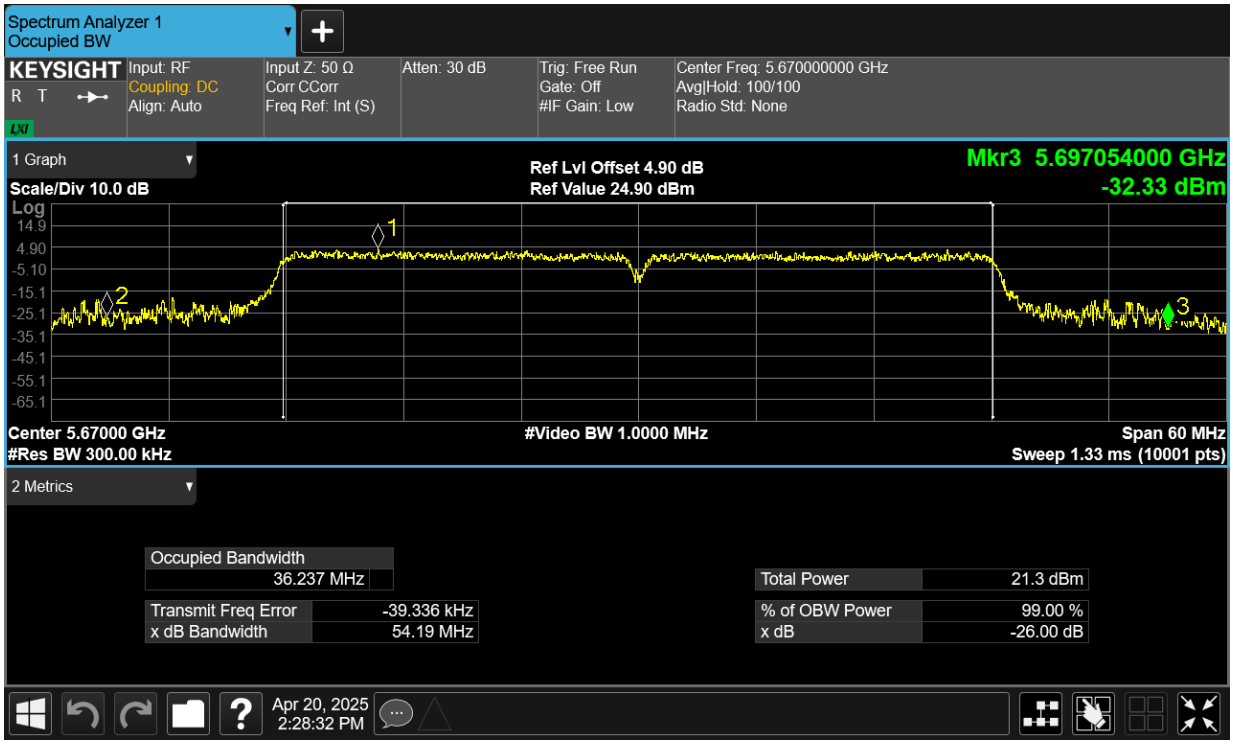
-26dB Bandwidth NVNT ac40 5510MHz Ant1



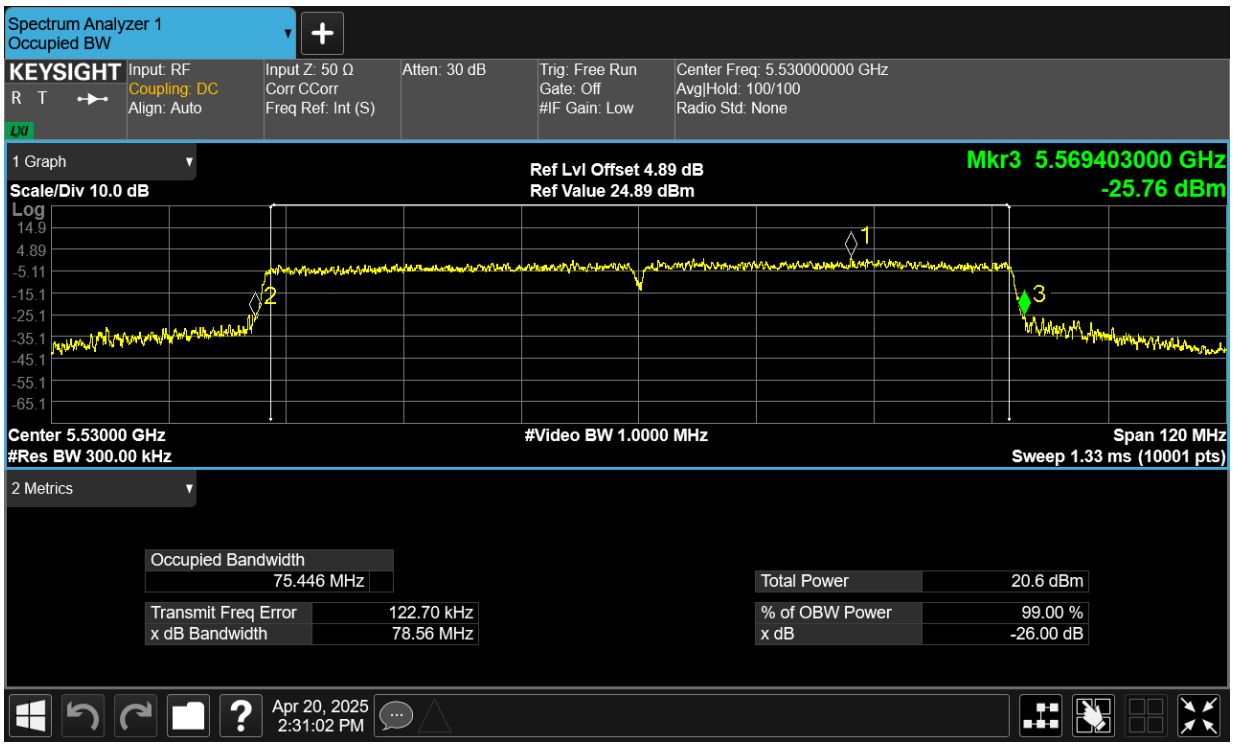
-26dB Bandwidth NVNT ac40 5590MHz Ant1



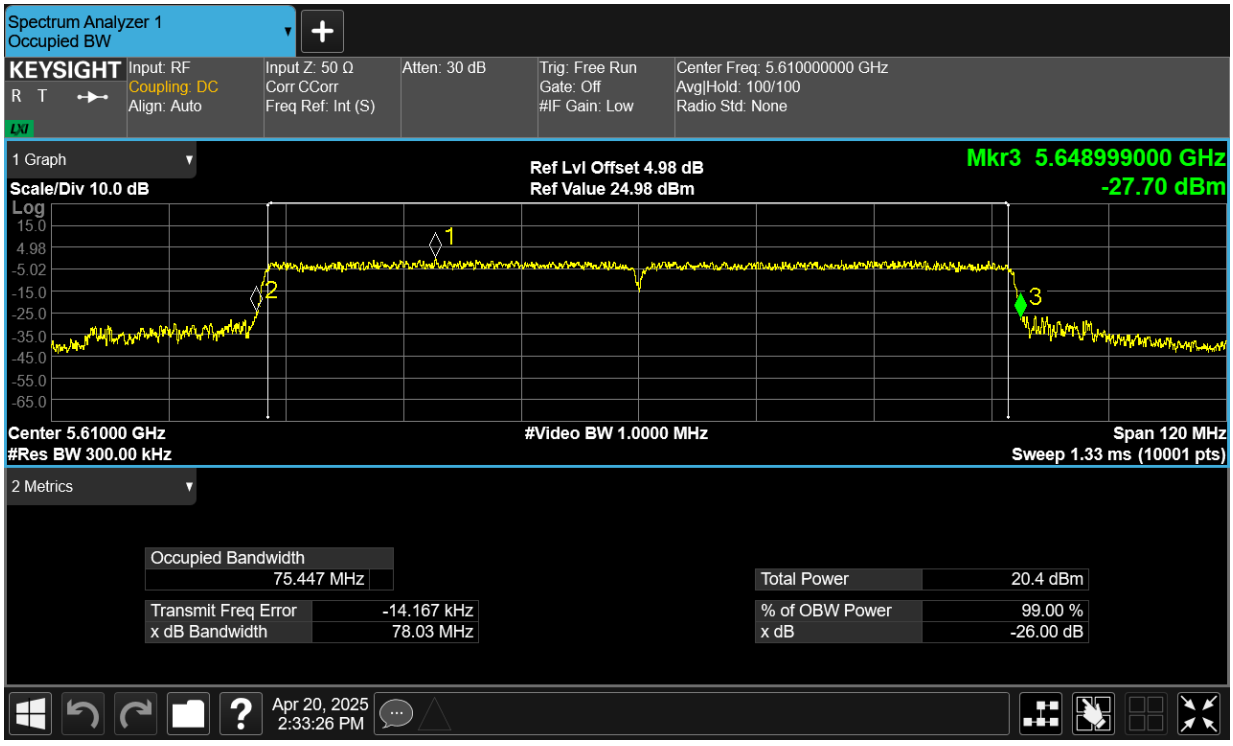
-26dB Bandwidth NVNT ac40 5670MHz Ant1



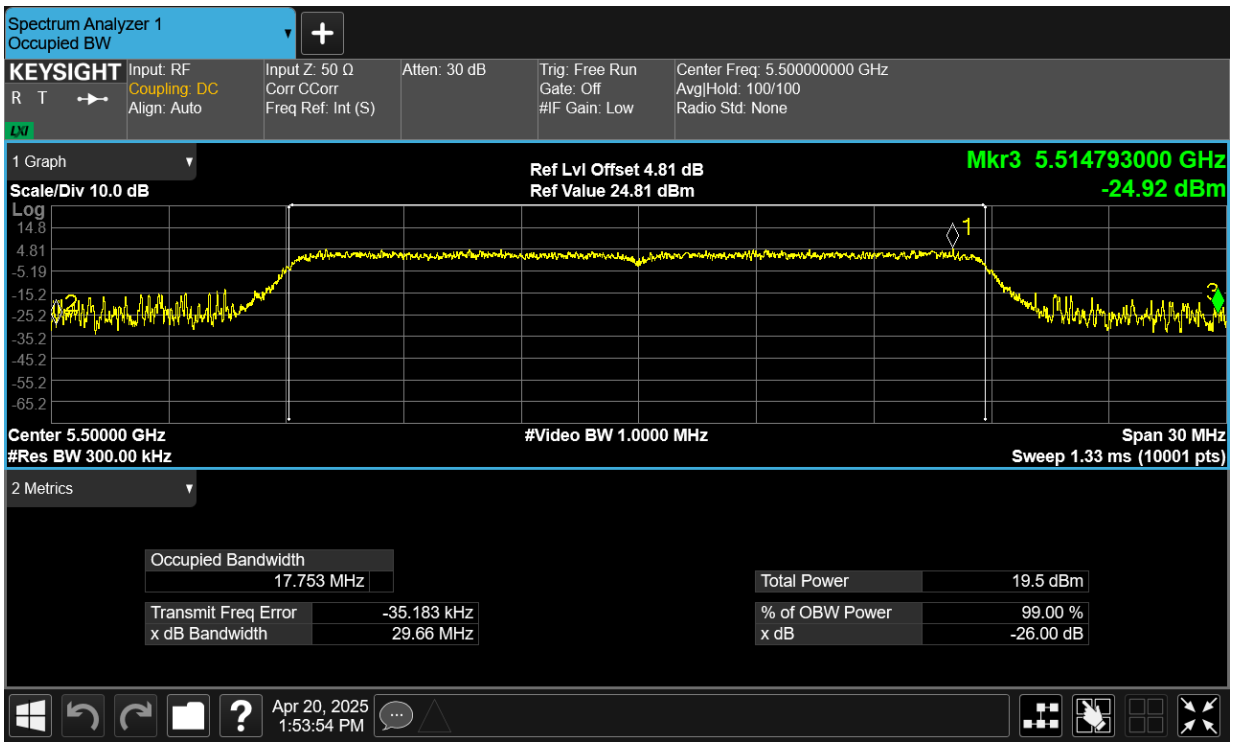
-26dB Bandwidth NVNT ac80 5530MHz Ant1



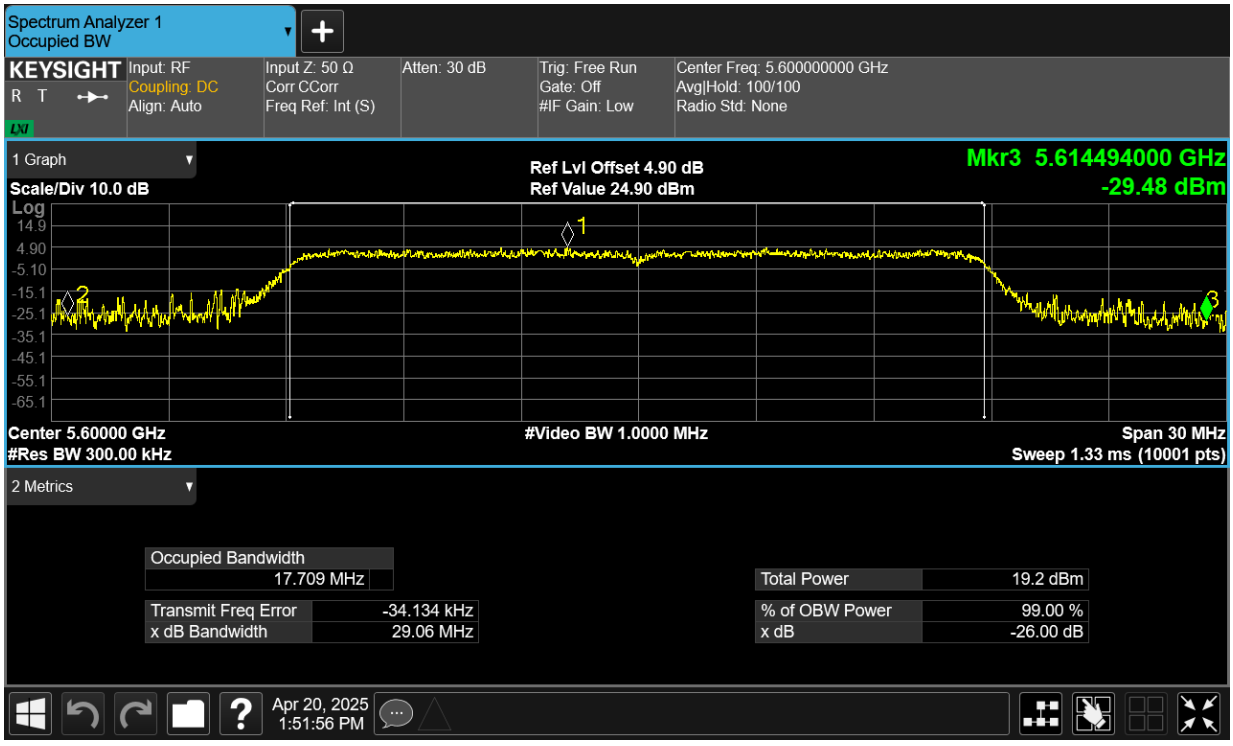
-26dB Bandwidth NVNT ac80 5610MHz Ant1



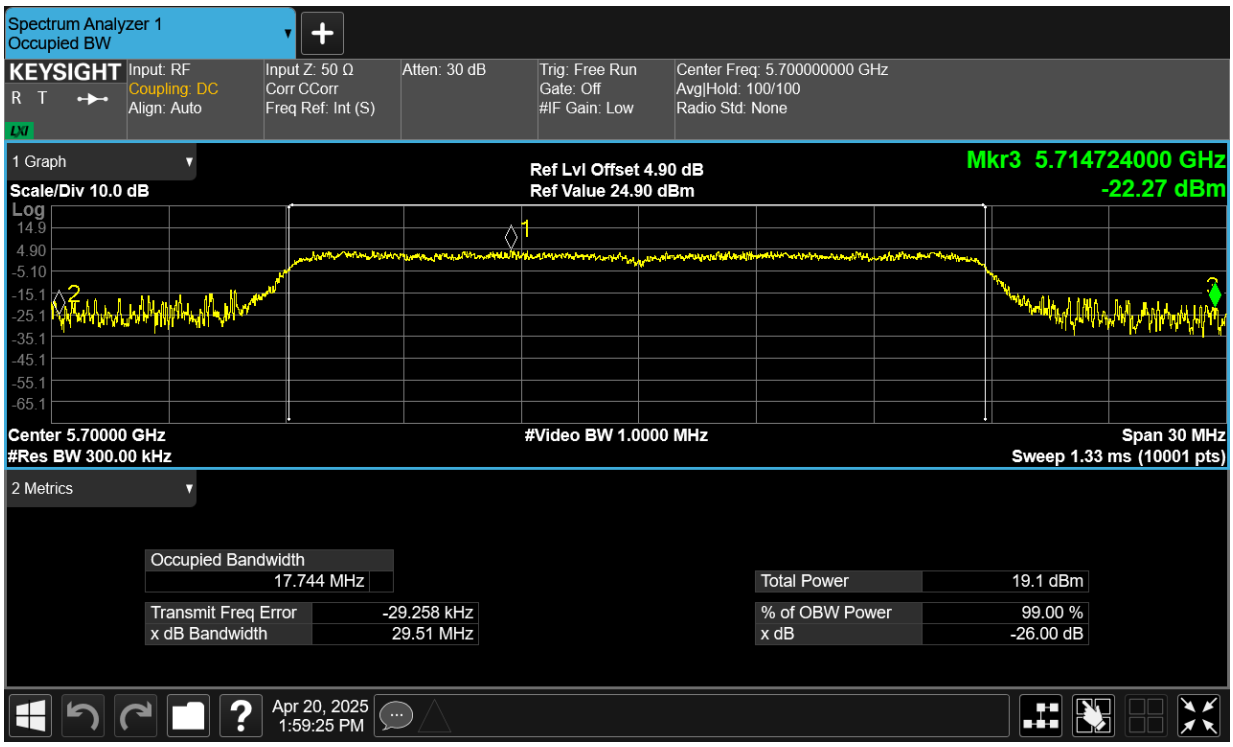
-26dB Bandwidth NVNT n20 5500MHz Ant1



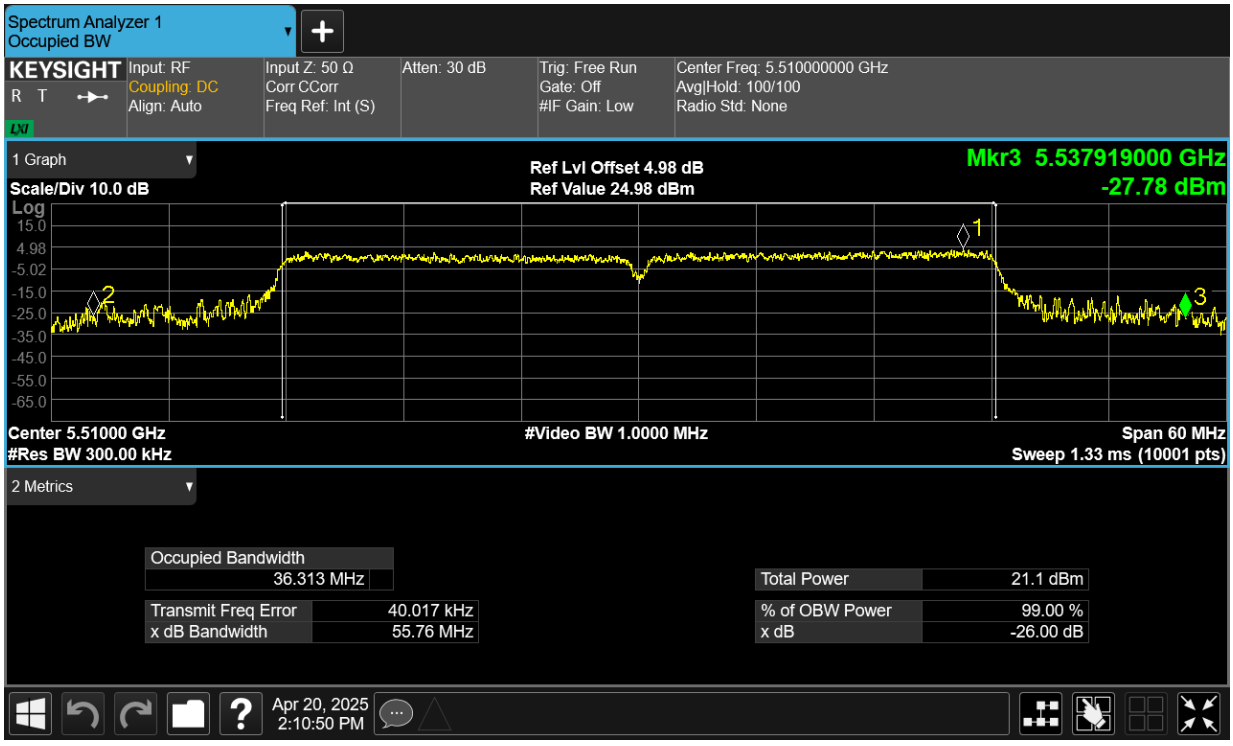
-26dB Bandwidth NVNT n20 5600MHz Ant1



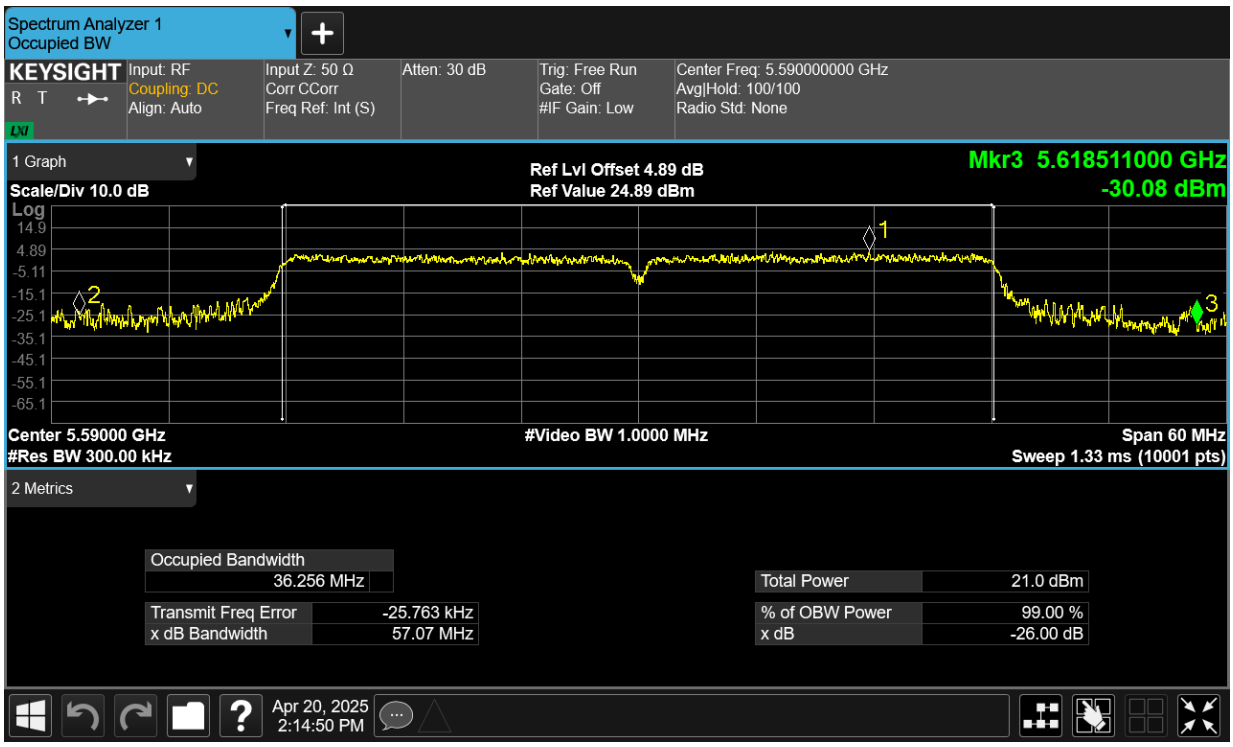
-26dB Bandwidth NVNT n20 5700MHz Ant1



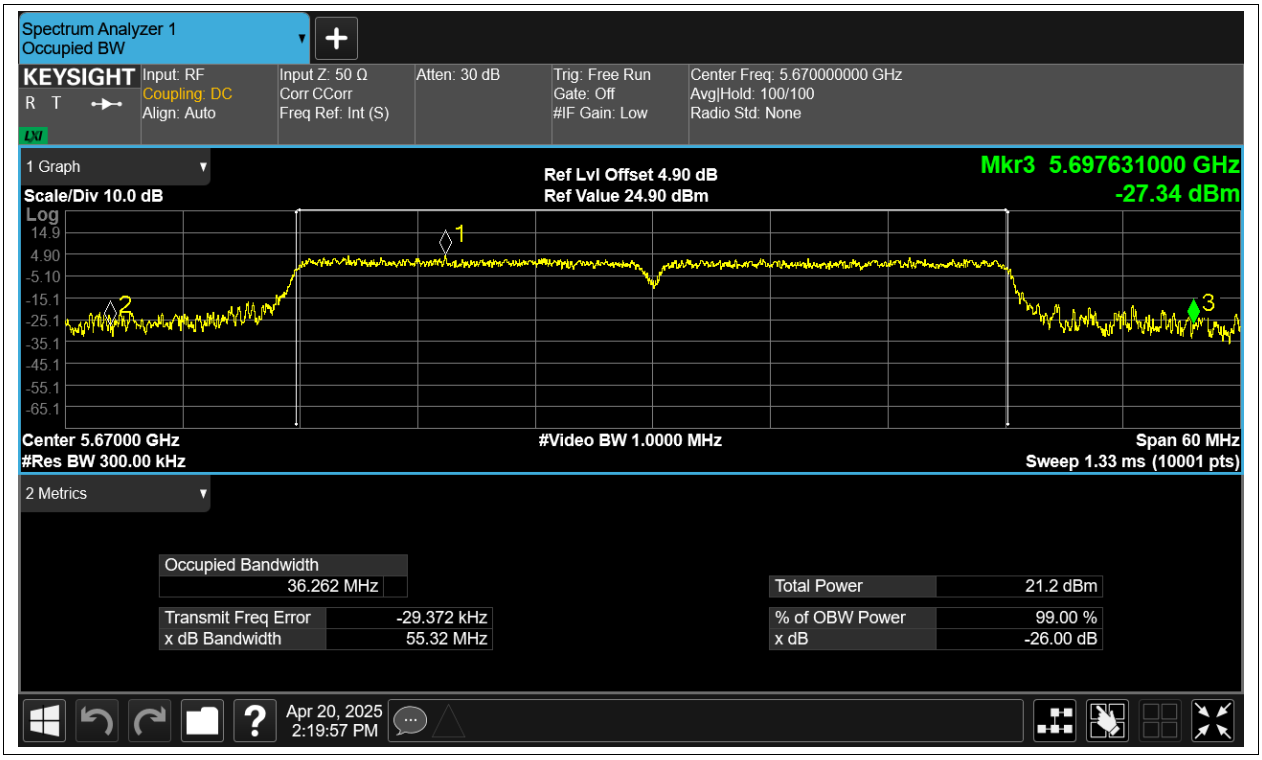
-26dB Bandwidth NVNT n40 5510MHz Ant1



-26dB Bandwidth NVNT n40 5590MHz Ant1



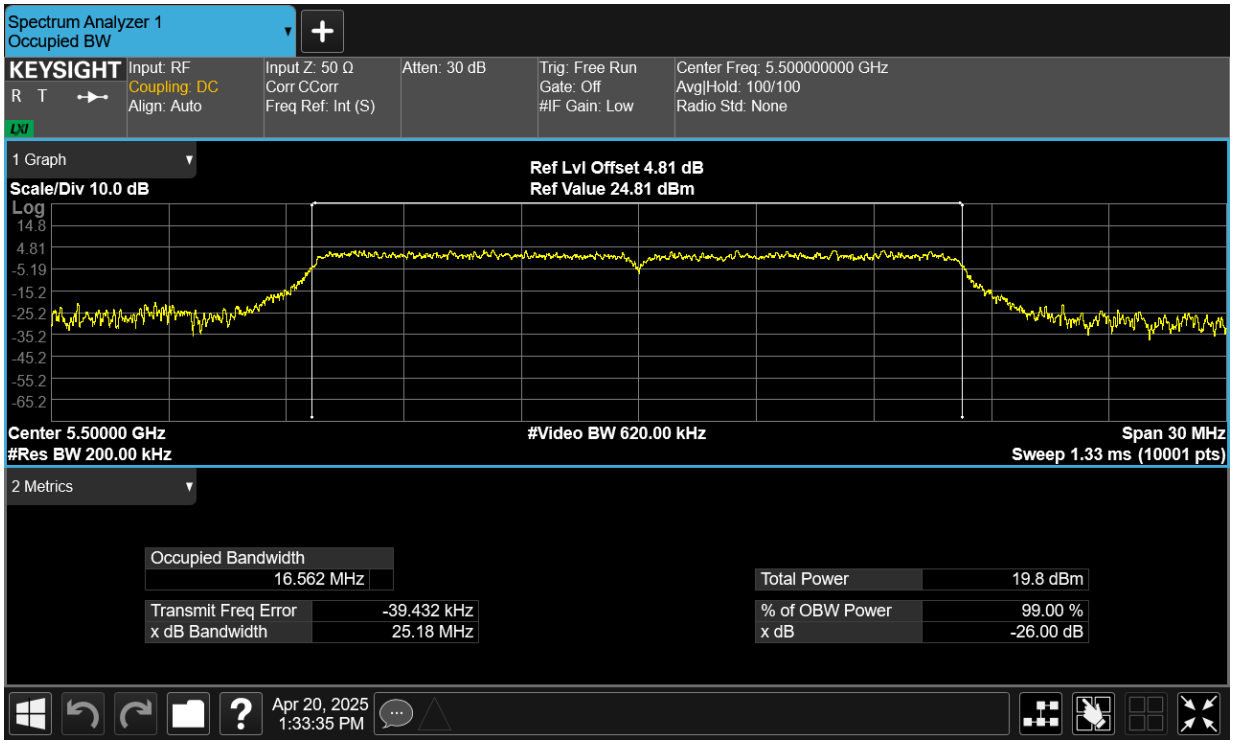
-26dB Bandwidth NVNT n40 5670MHz Ant1


Spectrum Analyzer 1
Occupied BW
KEYSIGHT
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: 5.670000000 GHz
Avg|Hold: 100/100
Radio Std: None
1 Graph
Ref Lvl Offset 4.90 dB
Ref Value 24.90 dBm
Mkr3 5.697631000 GHz
-27.34 dBm
Scale/Div 10.0 dB
Log
14.9
4.90
-5.10
-15.1
-25.1
-35.1
-45.1
-55.1
-65.1
Center 5.67000 GHz
#Res BW 300.00 kHz
#Video BW 1.0000 MHz
Span 60 MHz
Sweep 1.33 ms (10001 pts)
2 Metrics
Occupied Bandwidth
36.262 MHz
Transmit Freq Error
-29.372 kHz
x dB Bandwidth
55.32 MHz
Total Power
21.2 dBm
% of OBW Power
99.00 %
x dB
-26.00 dB
Apr 20, 2025
2:19:57 PM

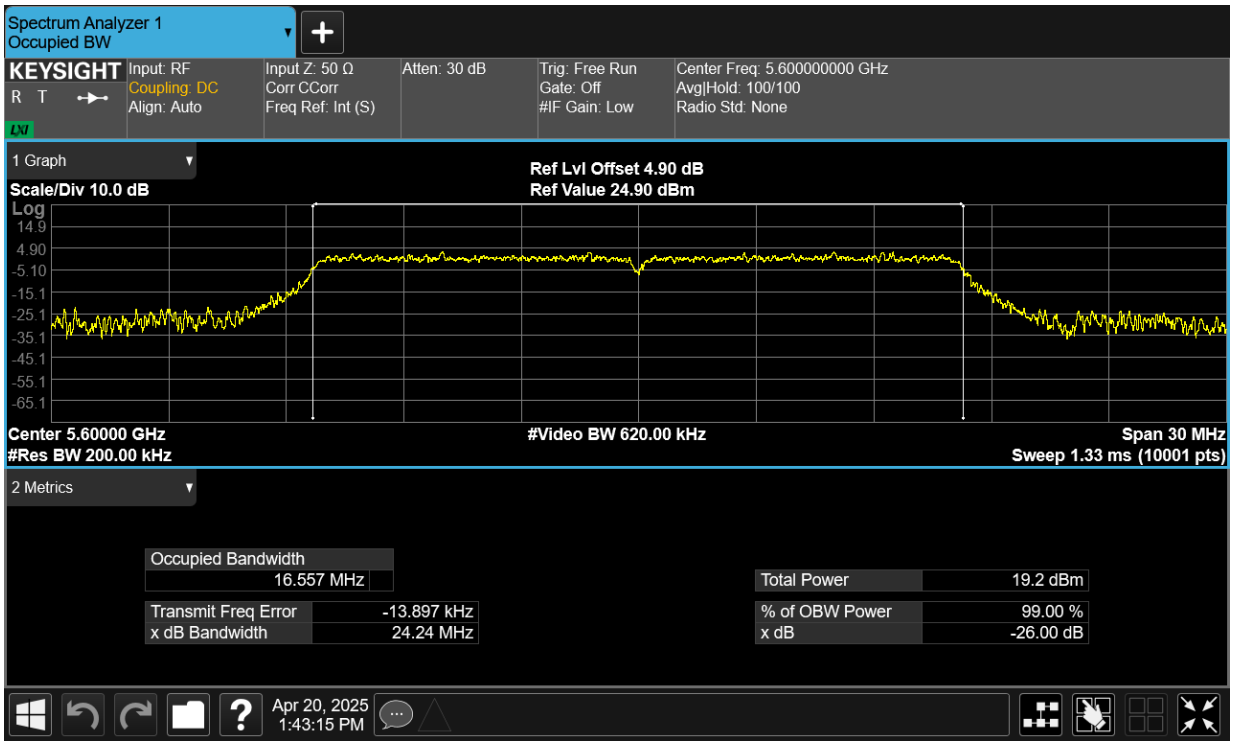
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	16.562
NVNT	a	5600	Ant1	16.557
NVNT	a	5700	Ant1	16.566
NVNT	ac20	5500	Ant1	17.628
NVNT	ac20	5600	Ant1	17.642
NVNT	ac20	5700	Ant1	17.632
NVNT	ac40	5510	Ant1	36.358
NVNT	ac40	5590	Ant1	36.372
NVNT	ac40	5670	Ant1	36.332
NVNT	ac80	5530	Ant1	75.535
NVNT	ac80	5610	Ant1	75.556
NVNT	n20	5500	Ant1	17.664
NVNT	n20	5600	Ant1	17.649
NVNT	n20	5700	Ant1	17.636
NVNT	n40	5510	Ant1	36.357
NVNT	n40	5590	Ant1	36.398
NVNT	n40	5670	Ant1	36.348

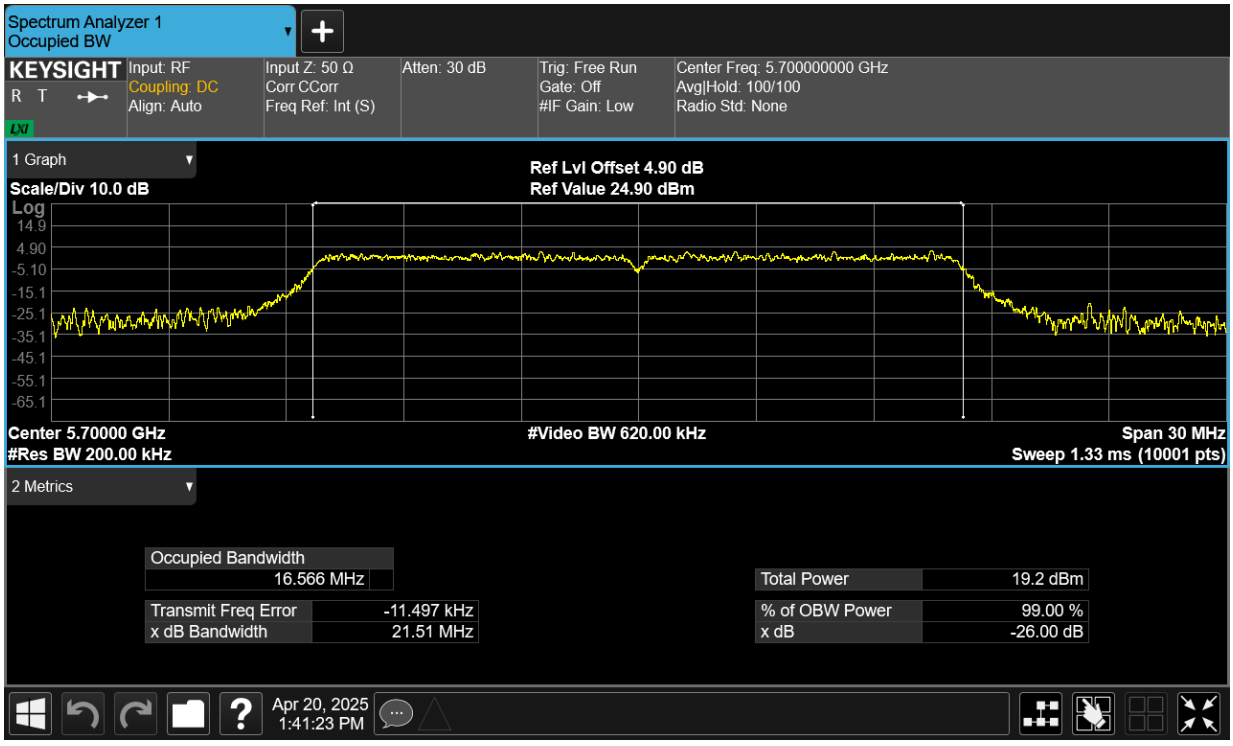
Test Graphs
OBW NVNT a 5500MHz Ant1



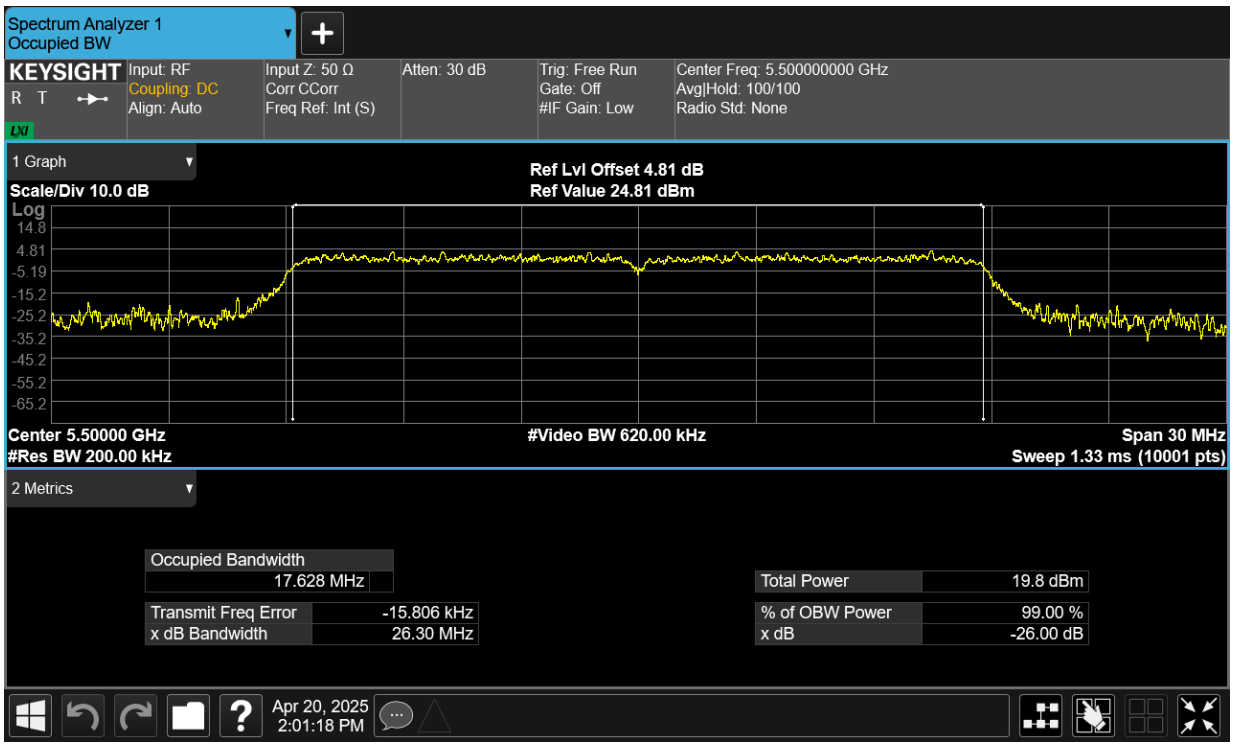
OBW NVNT a 5600MHz Ant1



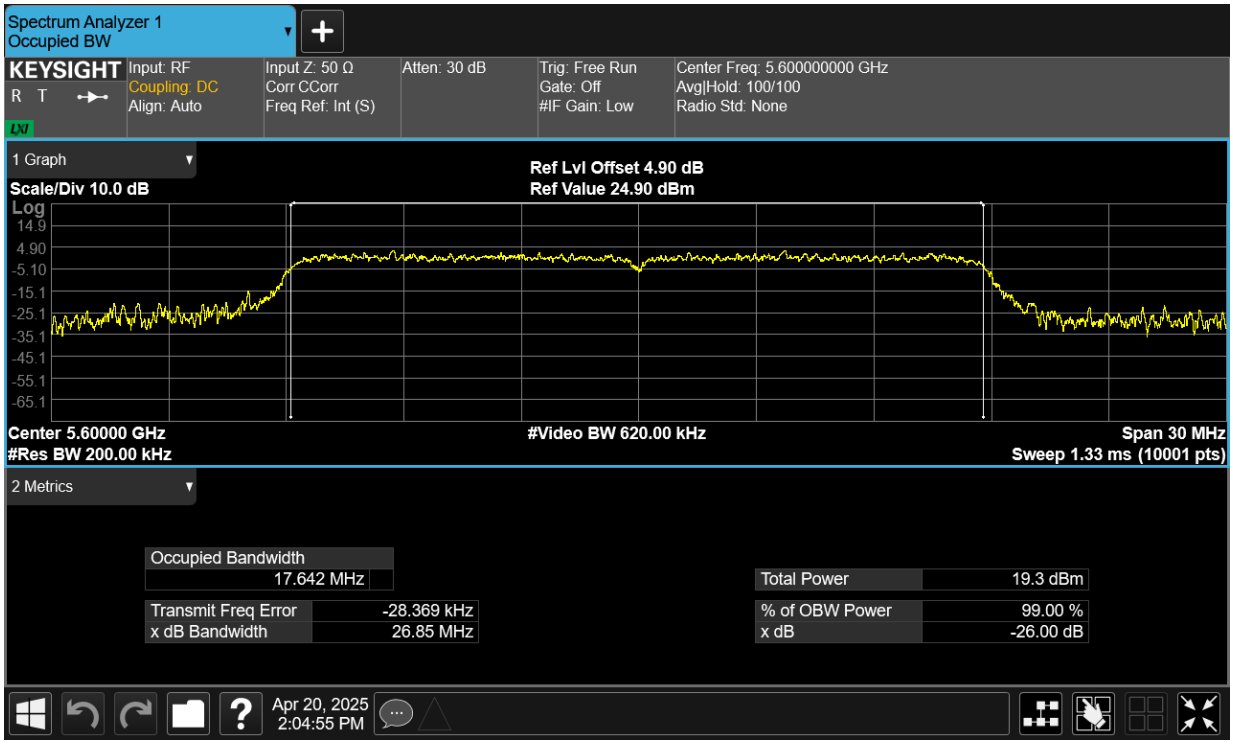
OBW NVNT a 5700MHz Ant1



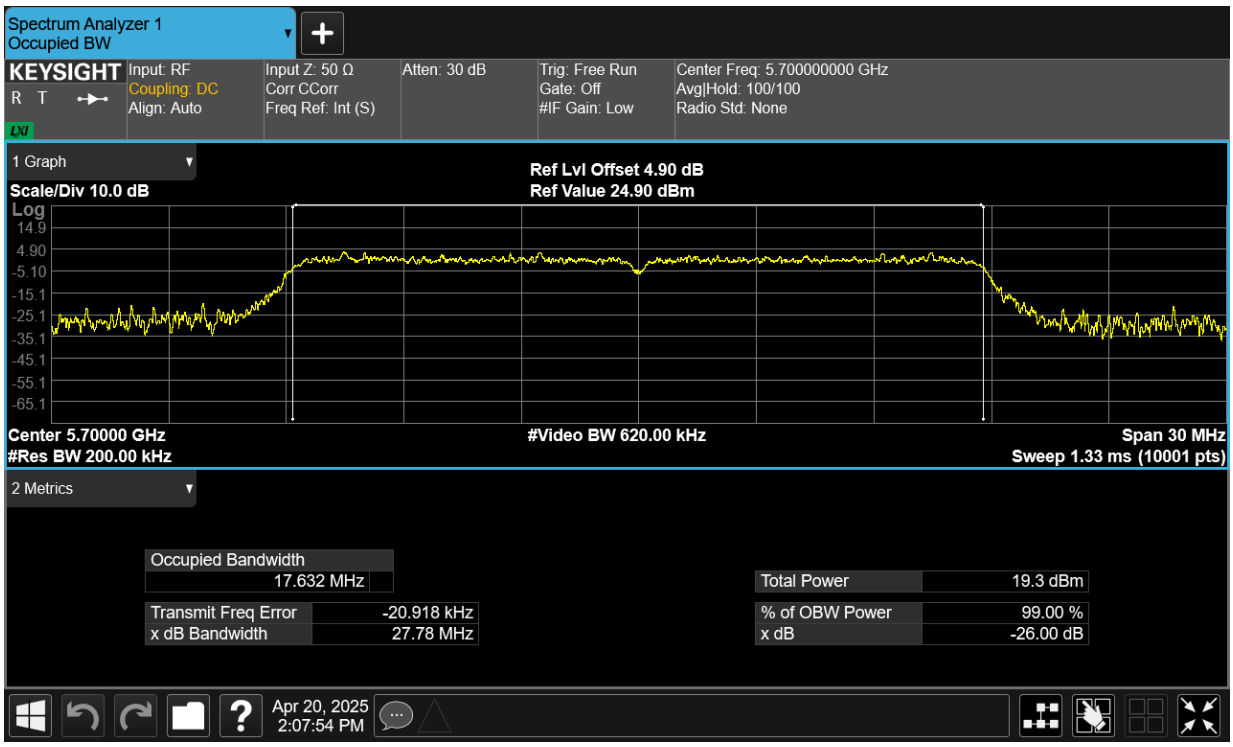
OBW NVNT ac20 5500MHz Ant1



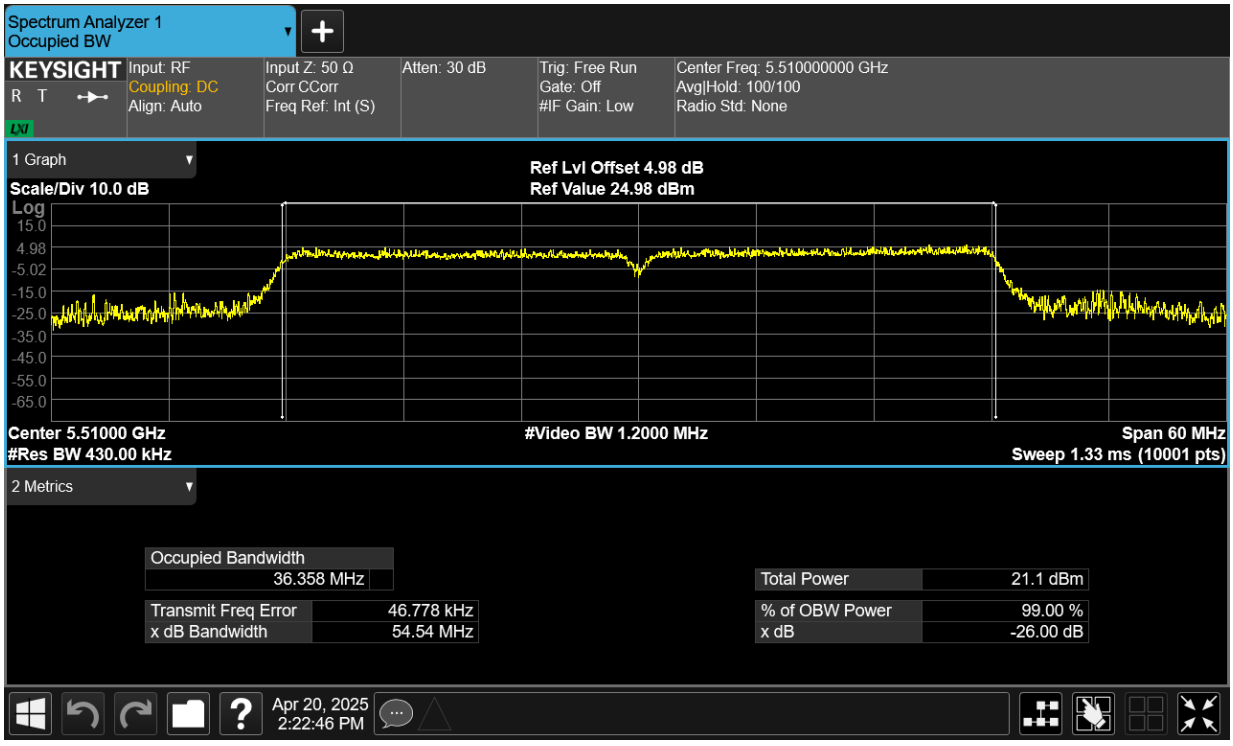
OBW NVNT ac20 5600MHz Ant1



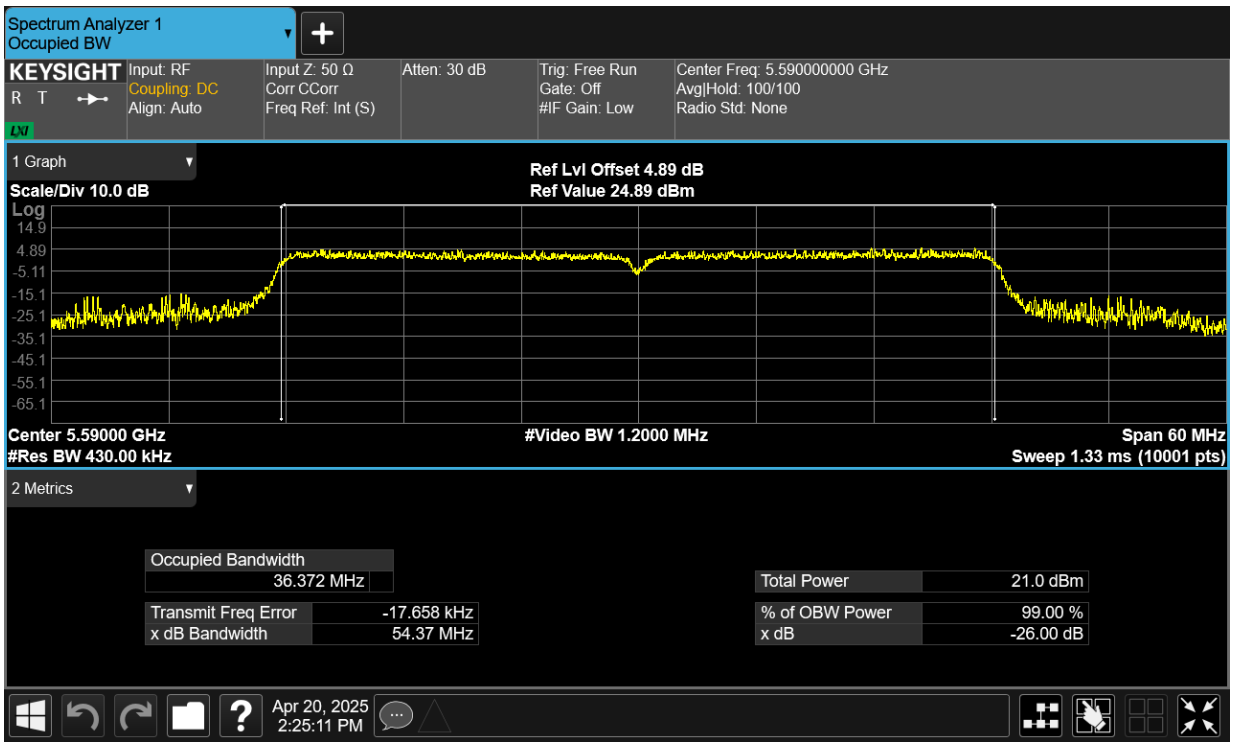
OBW NVNT ac20 5700MHz Ant1



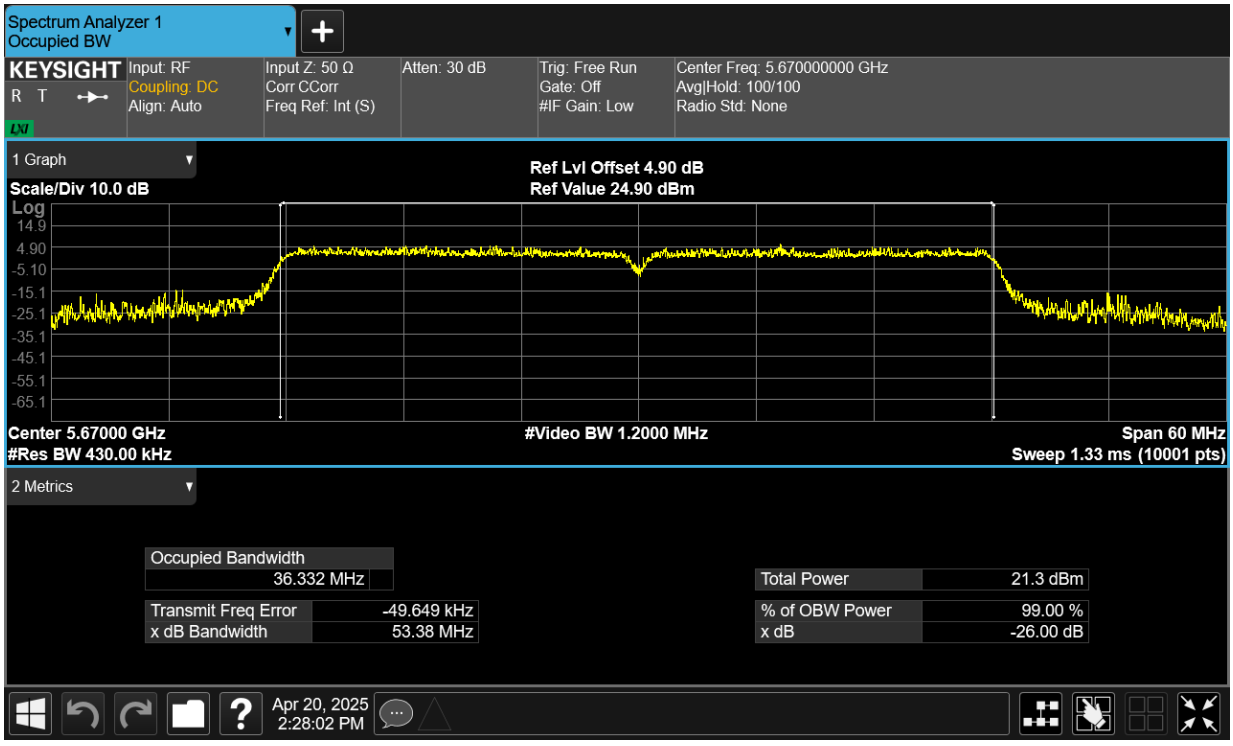
OBW NVNT ac40 5510MHz Ant1



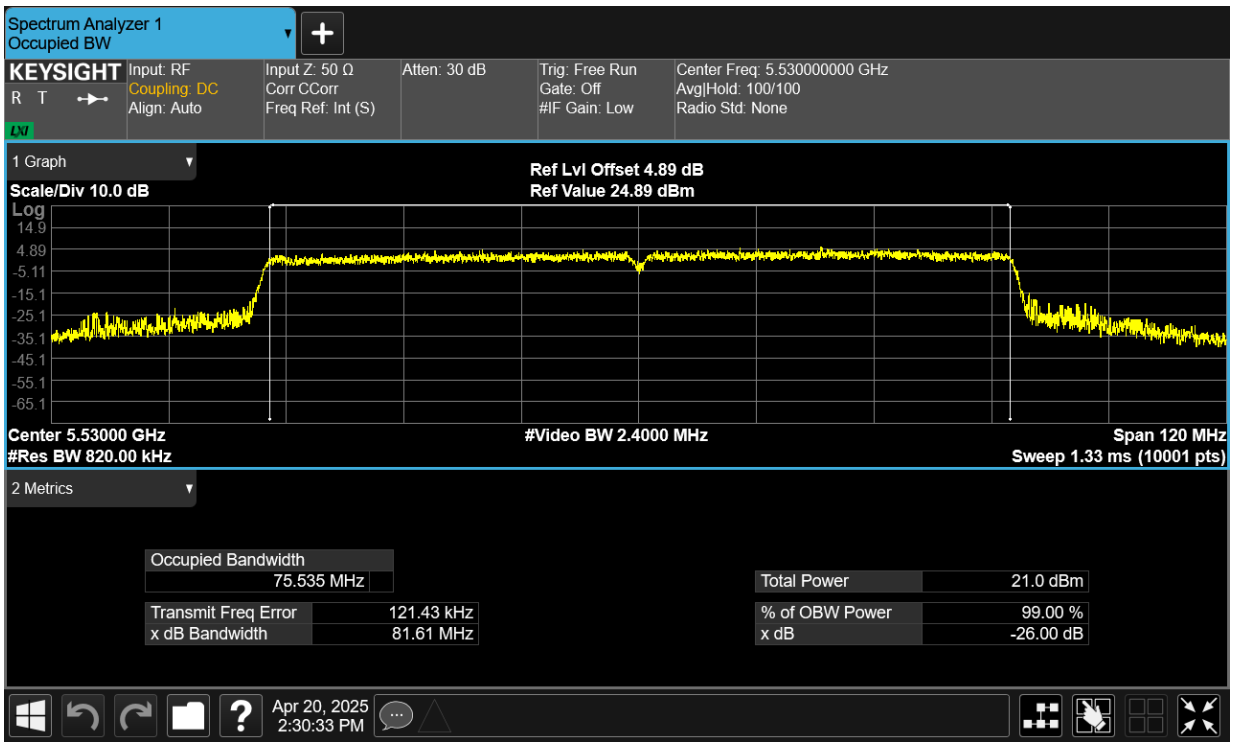
OBW NVNT ac40 5590MHz Ant1



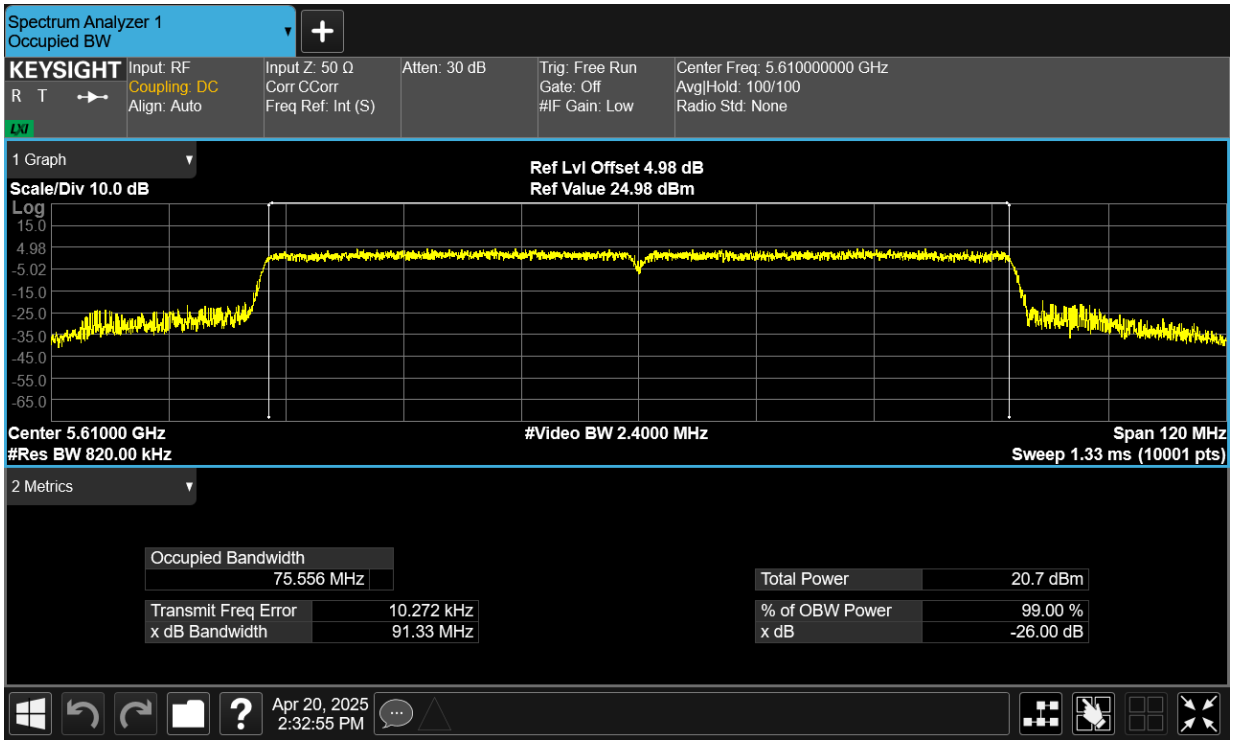
OBW NVNT ac40 5670MHz Ant1



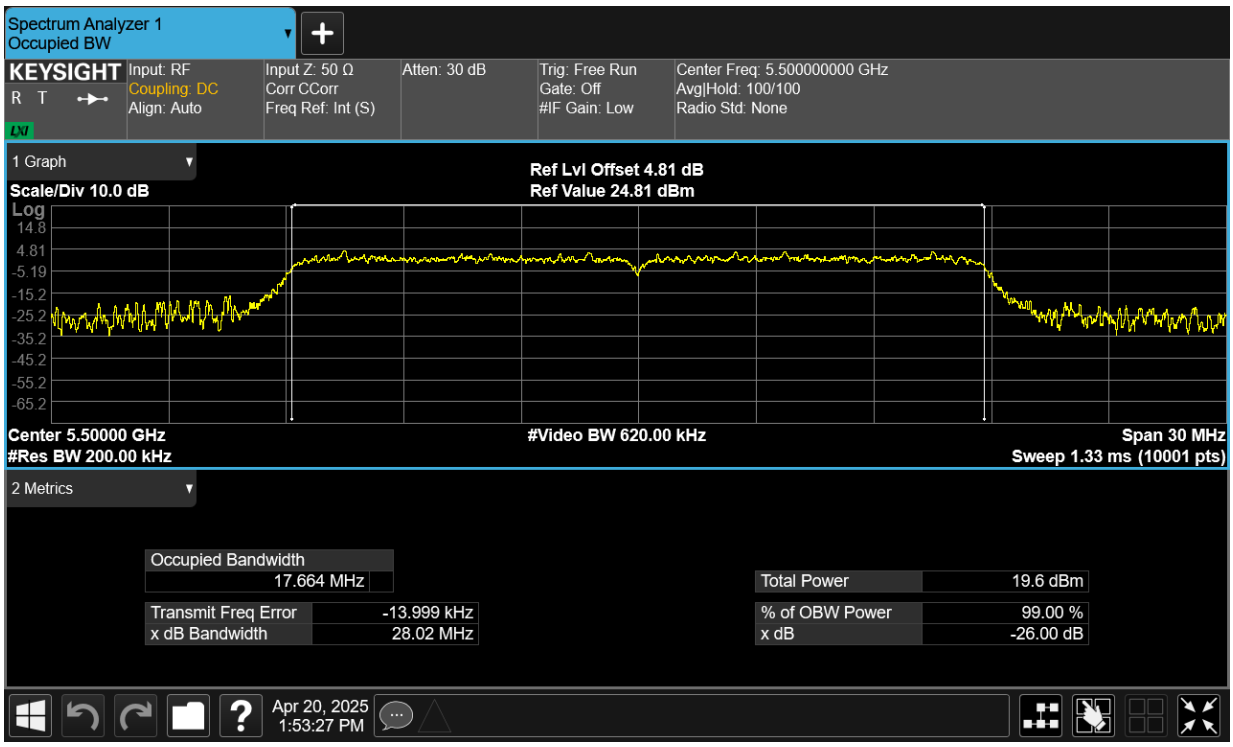
OBW NVNT ac80 5530MHz Ant1



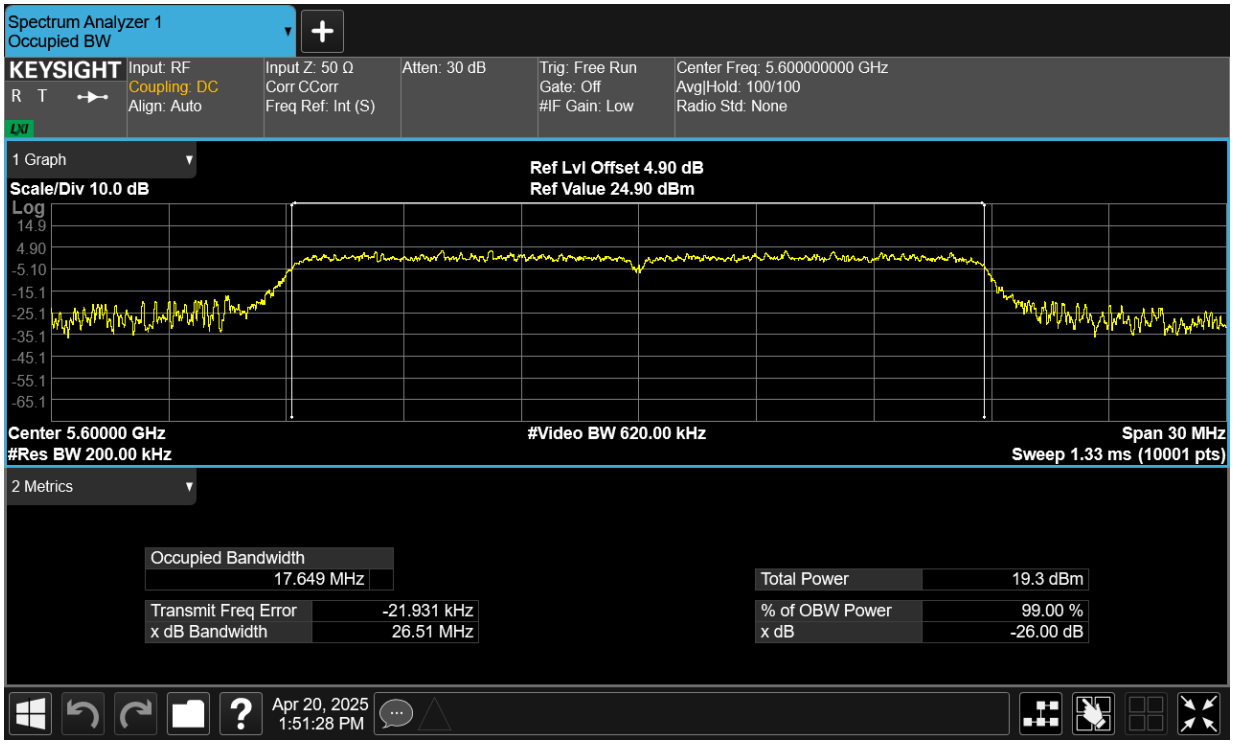
OBW NVNT ac80 5610MHz Ant1



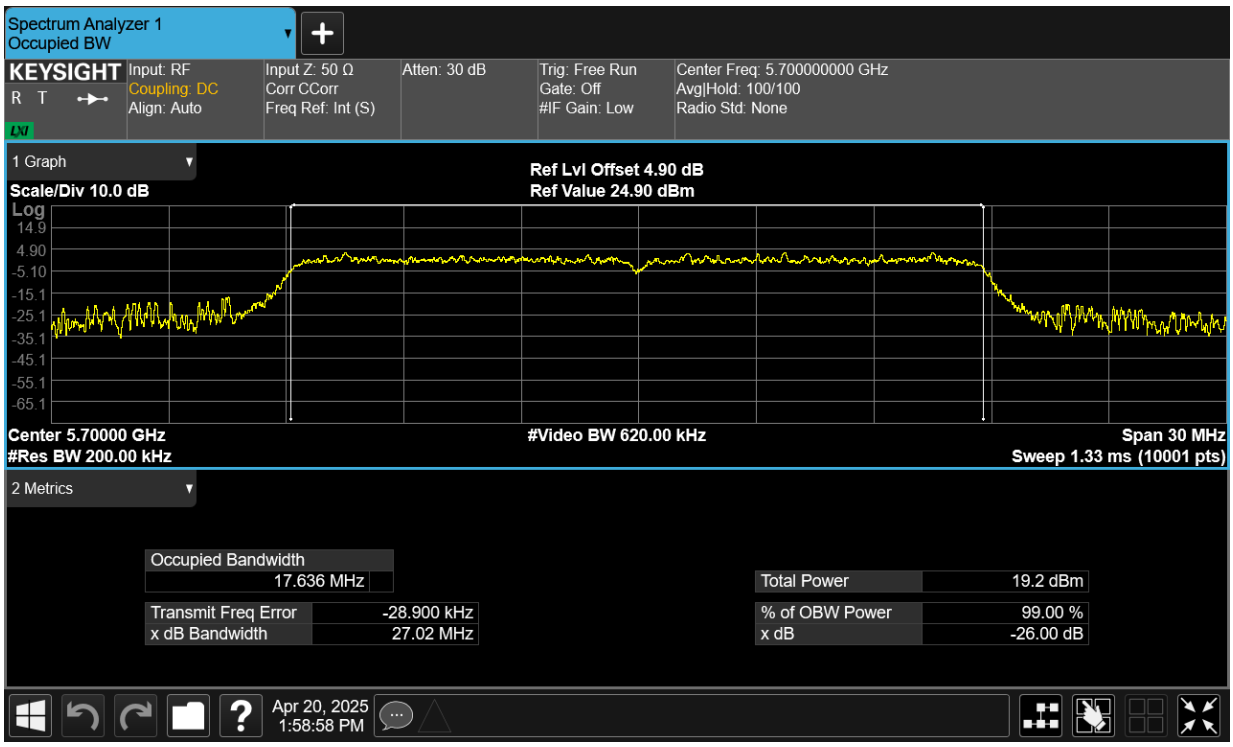
OBW NVNT n20 5500MHz Ant1



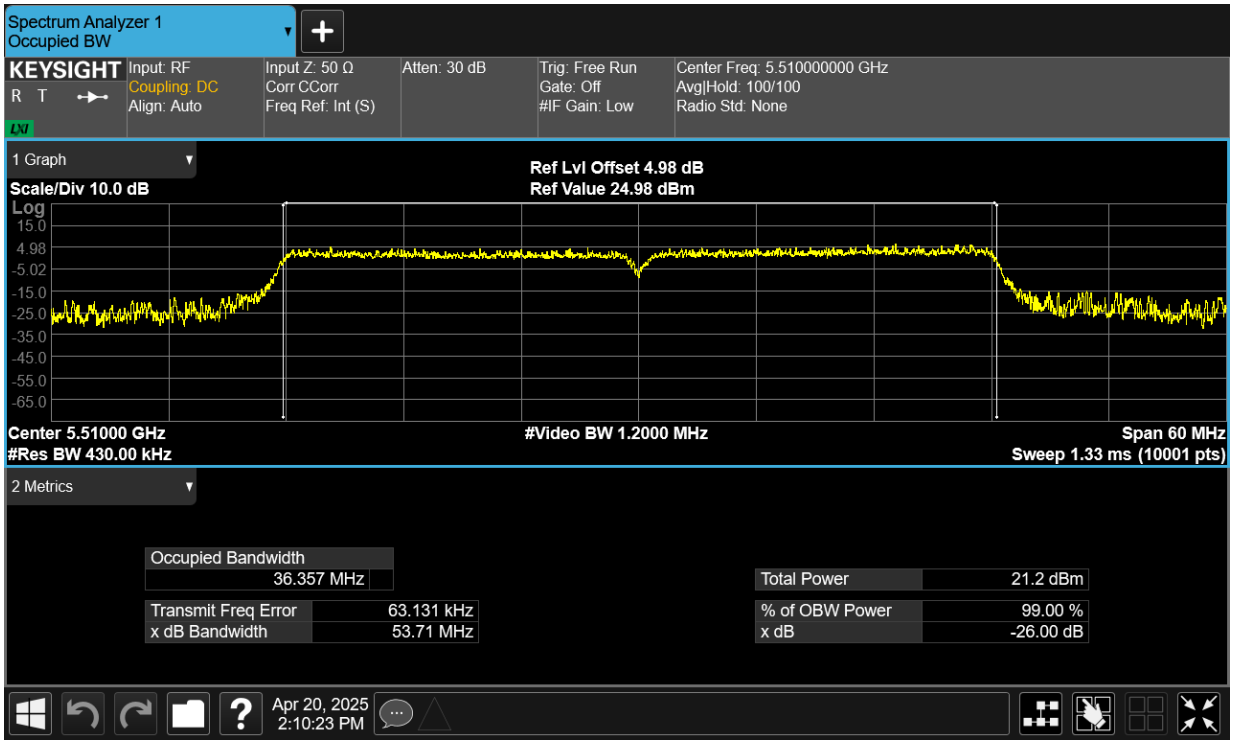
OBW NVNT n20 5600MHz Ant1



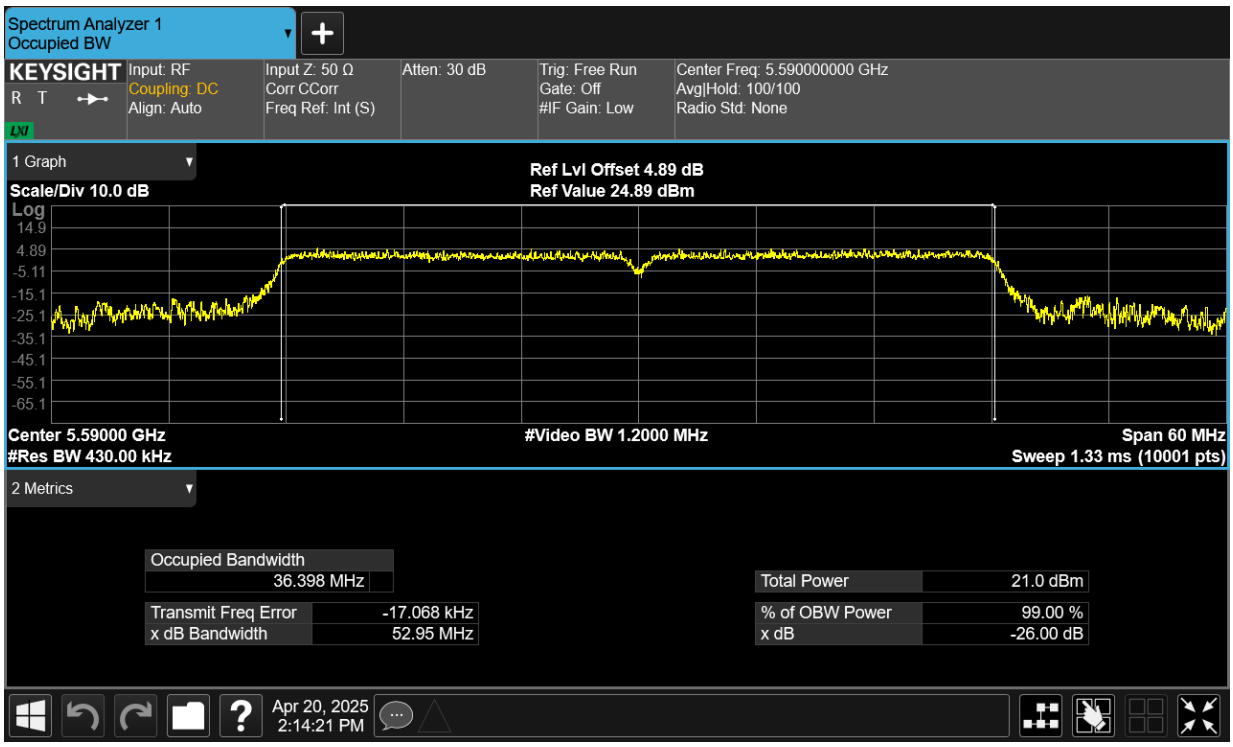
OBW NVNT n20 5700MHz Ant1



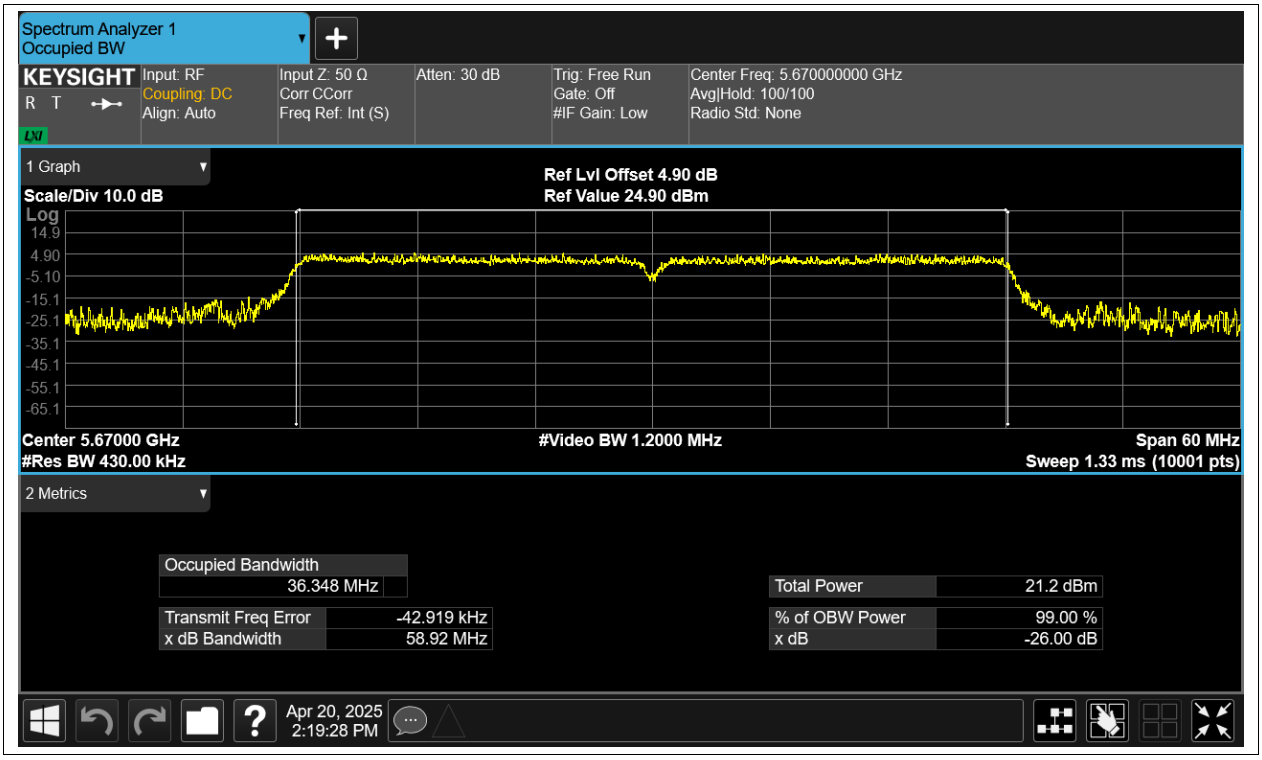
OBW NVNT n40 5510MHz Ant1



OBW NVNT n40 5590MHz Ant1



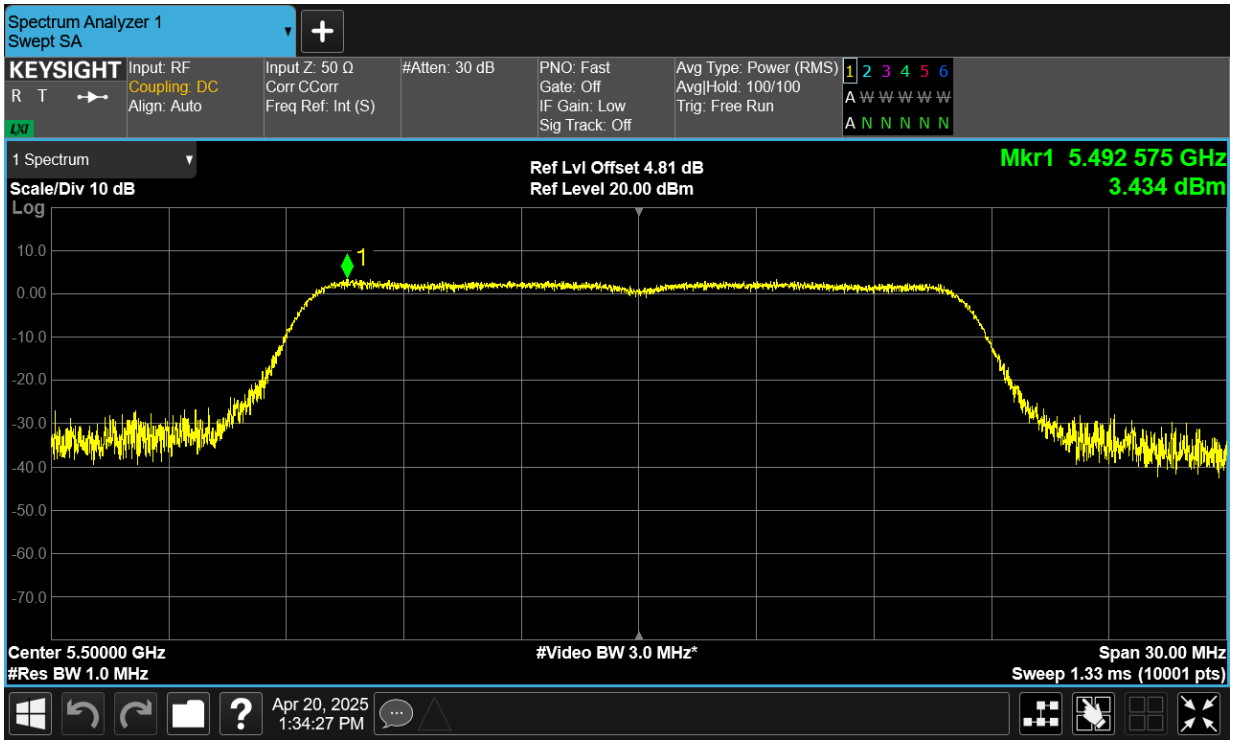
OBW NVNT n40 5670MHz Ant1


Spectrum Analyzer 1
Occupied BW
KEYSIGHT
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: 5.670000000 GHz
Avg|Hold: 100/100
Radio Std: None
1 Graph
Ref Lvl Offset 4.90 dB
Ref Value 24.90 dBm
Scale/Div 10.0 dB
Log
14.9
4.90
-5.10
-15.1
-25.1
-35.1
-45.1
-55.1
-65.1
Center 5.67000 GHz
#Res BW 430.00 kHz
#Video BW 1.2000 MHz
Span 60 MHz
Sweep 1.33 ms (10001 pts)
2 Metrics
Occupied Bandwidth
36.348 MHz
Transmit Freq Error -42.919 kHz
x dB Bandwidth 58.92 MHz
Total Power 21.2 dBm
% of OBW Power 99.00 %
x dB -26.00 dB
Apr 20, 2025
2:19:28 PM

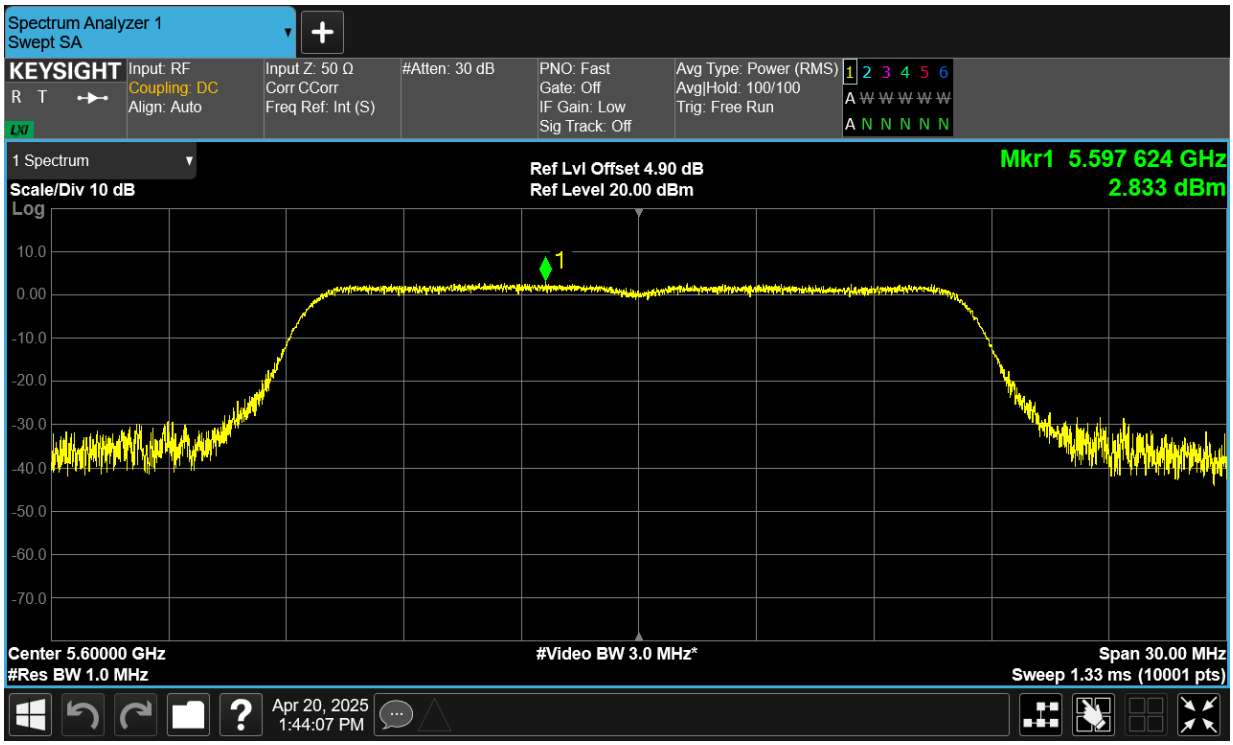
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	3.434	11	Pass
NVNT	a	5600	Ant1	2.833	11	Pass
NVNT	a	5700	Ant1	2.706	11	Pass
NVNT	ac20	5500	Ant1	2.925	11	Pass
NVNT	ac20	5600	Ant1	2.529	11	Pass
NVNT	ac20	5700	Ant1	2.574	11	Pass
NVNT	ac40	5510	Ant1	1.571	11	Pass
NVNT	ac40	5590	Ant1	0.97	11	Pass
NVNT	ac40	5670	Ant1	1.466	11	Pass
NVNT	ac80	5530	Ant1	-2.665	11	Pass
NVNT	ac80	5610	Ant1	-3.977	11	Pass
NVNT	n20	5500	Ant1	2.89	11	Pass
NVNT	n20	5600	Ant1	2.573	11	Pass
NVNT	n20	5700	Ant1	2.67	11	Pass
NVNT	n40	5510	Ant1	2.305	11	Pass
NVNT	n40	5590	Ant1	0.762	11	Pass
NVNT	n40	5670	Ant1	1.382	11	Pass

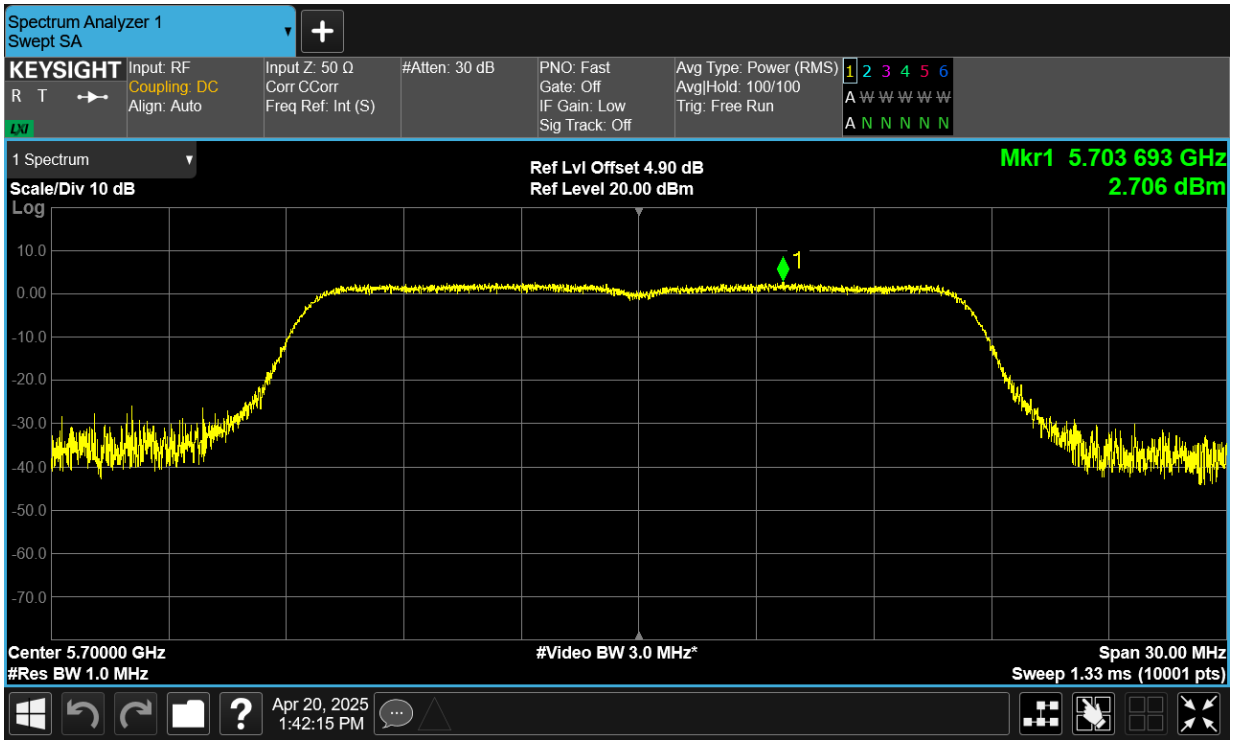
Test Graphs
PSD NVNT a 5500MHz Ant1



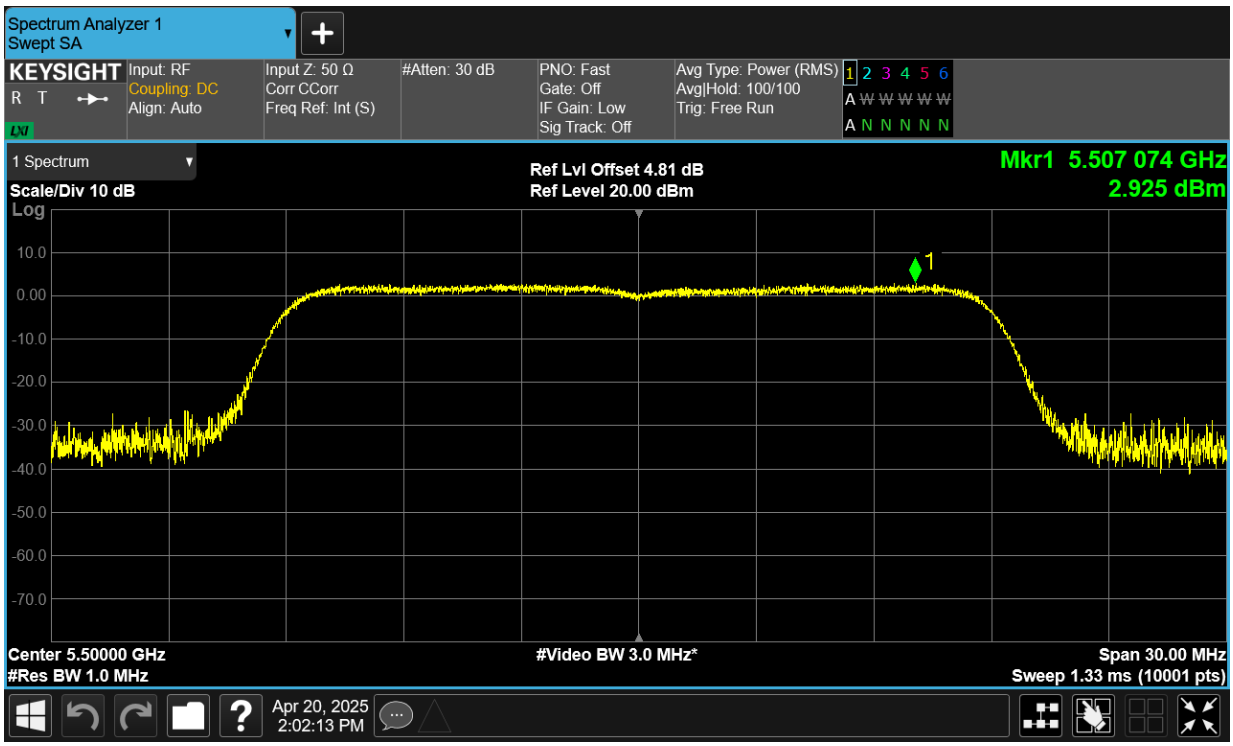
PSD NVNT a 5600MHz Ant1



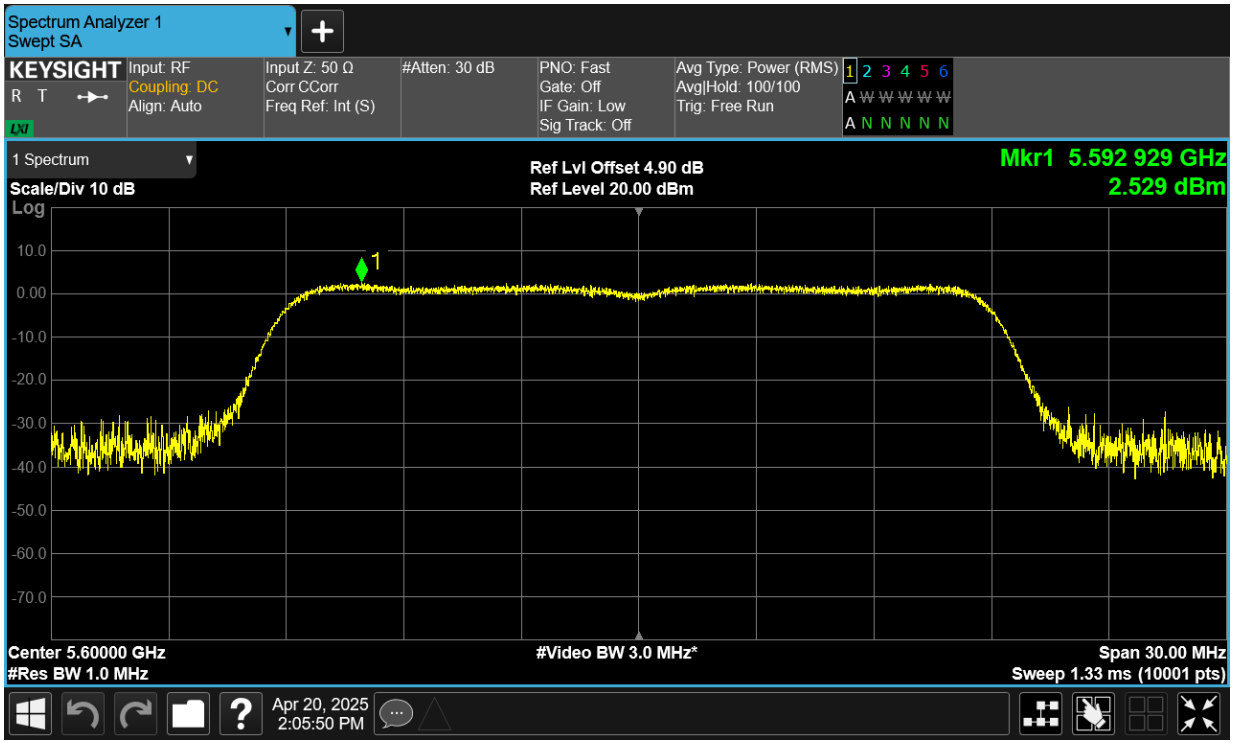
PSD NVNT a 5700MHz Ant1



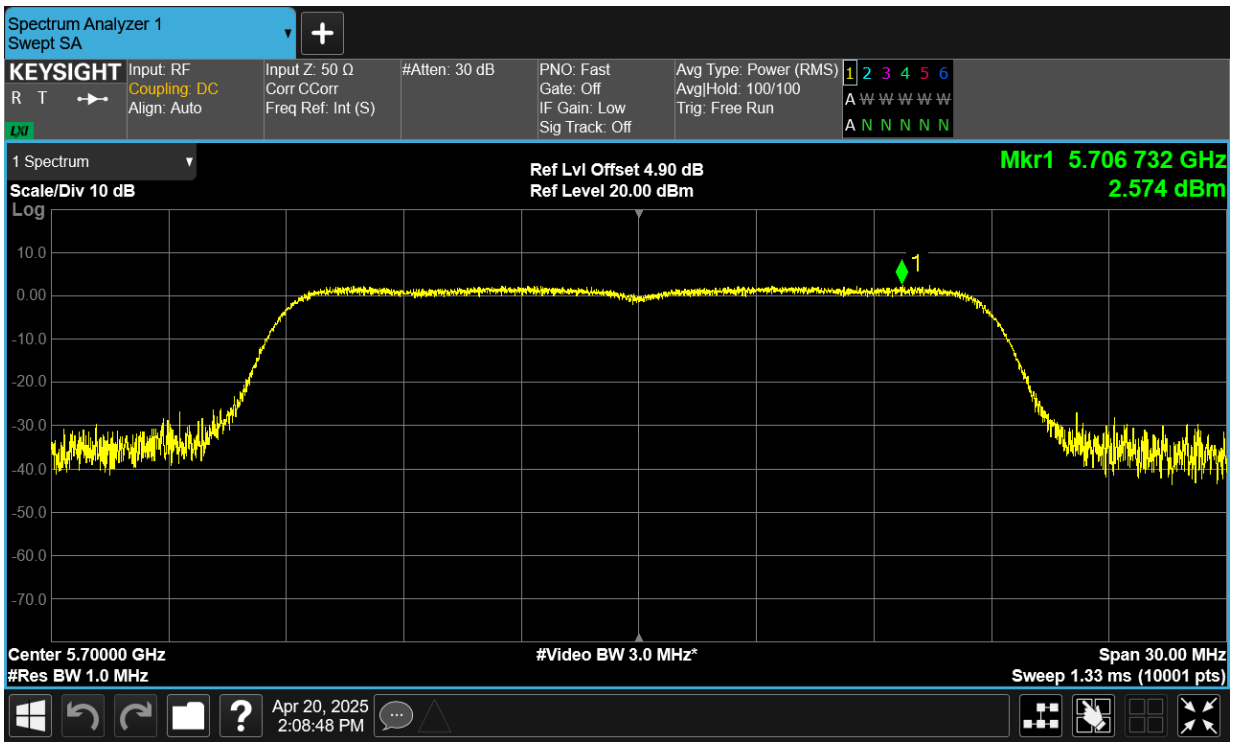
PSD NVNT ac20 5500MHz Ant1



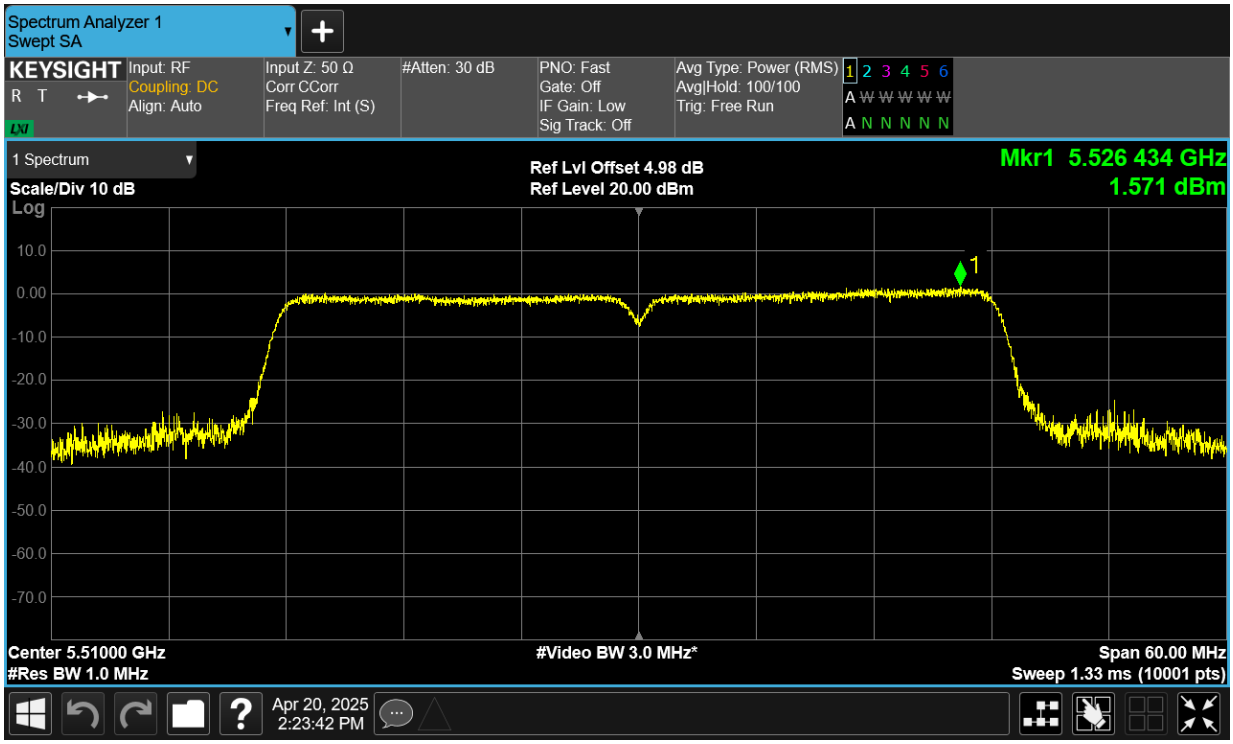
PSD NVNT ac20 5600MHz Ant1



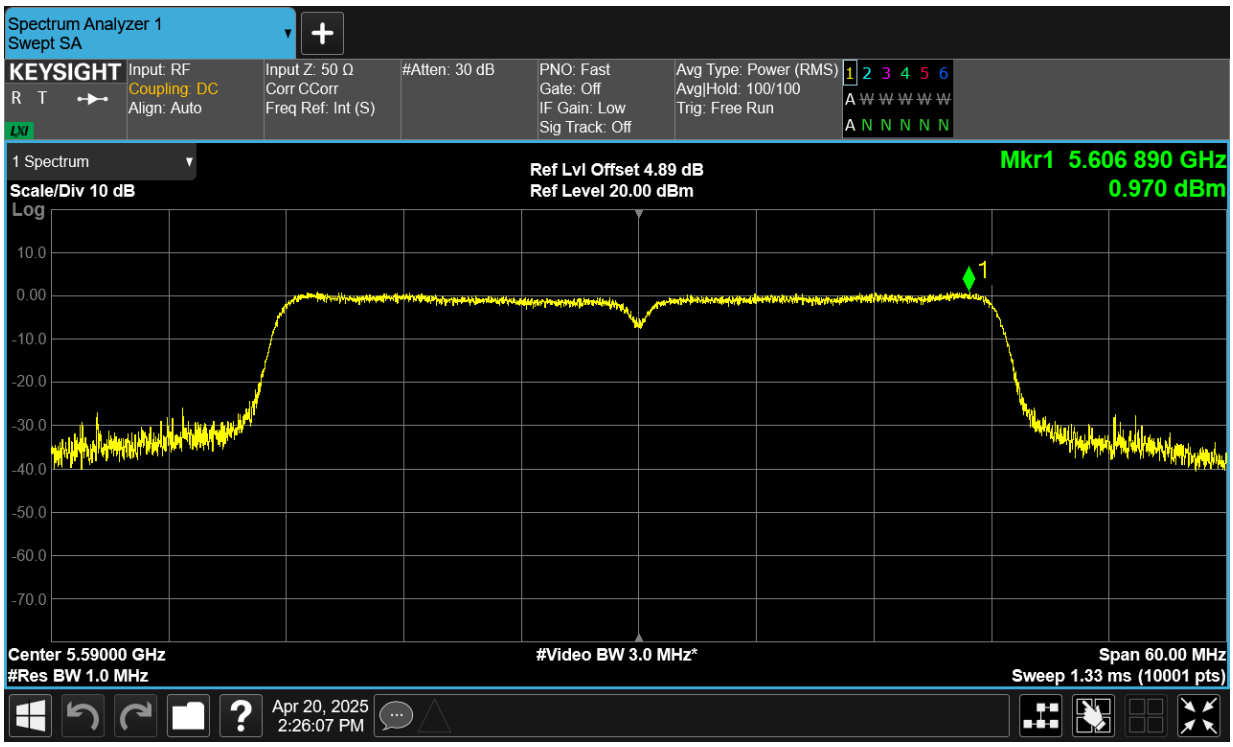
PSD NVNT ac20 5700MHz Ant1



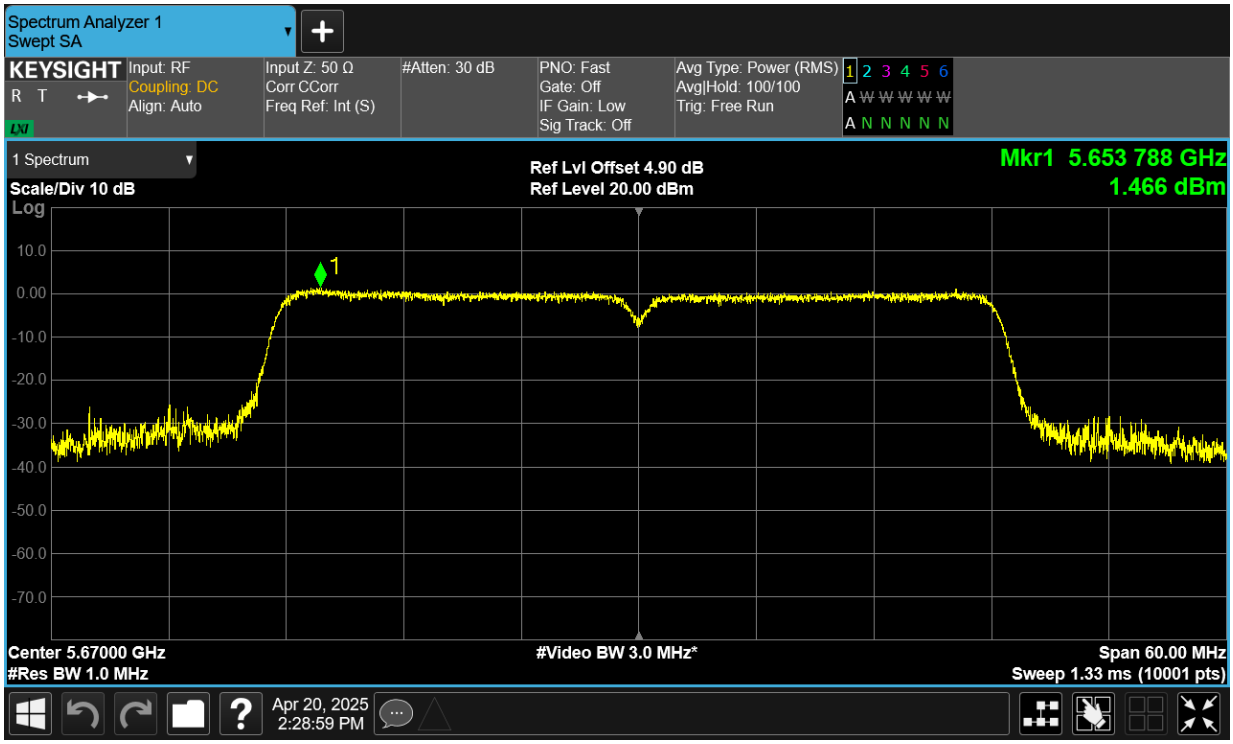
PSD NVNT ac40 5510MHz Ant1



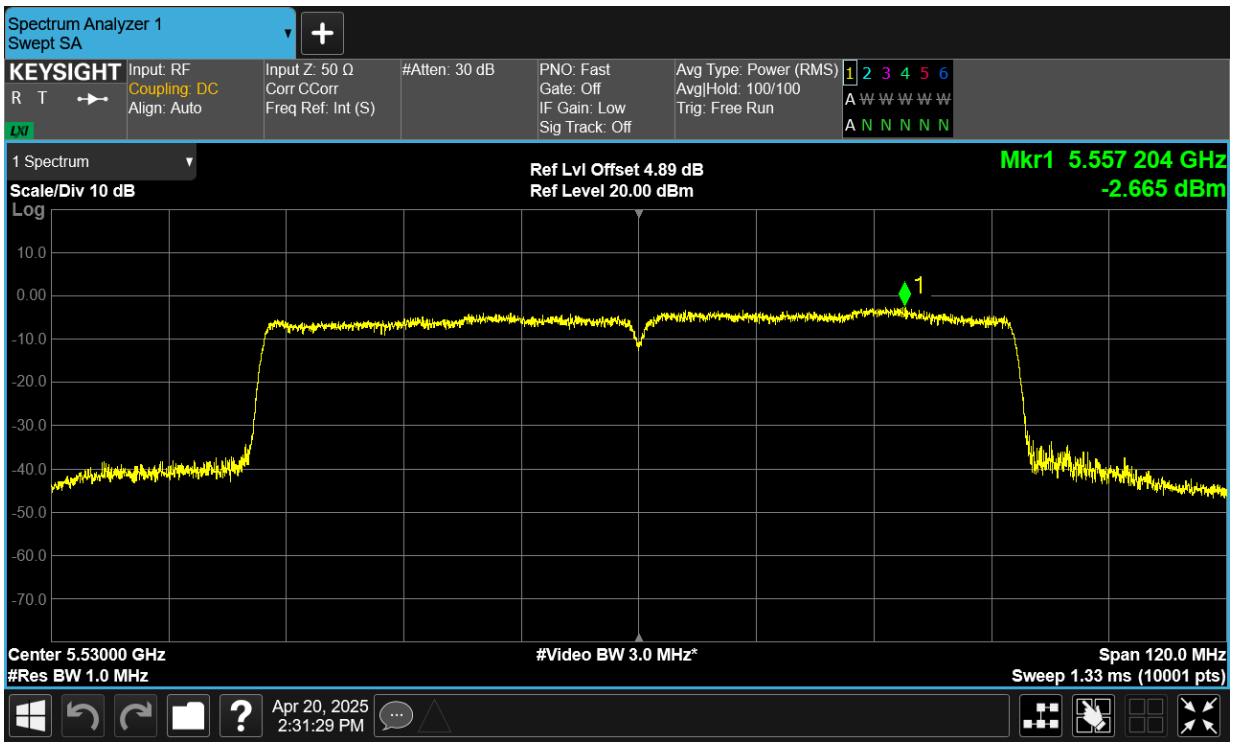
PSD NVNT ac40 5590MHz Ant1



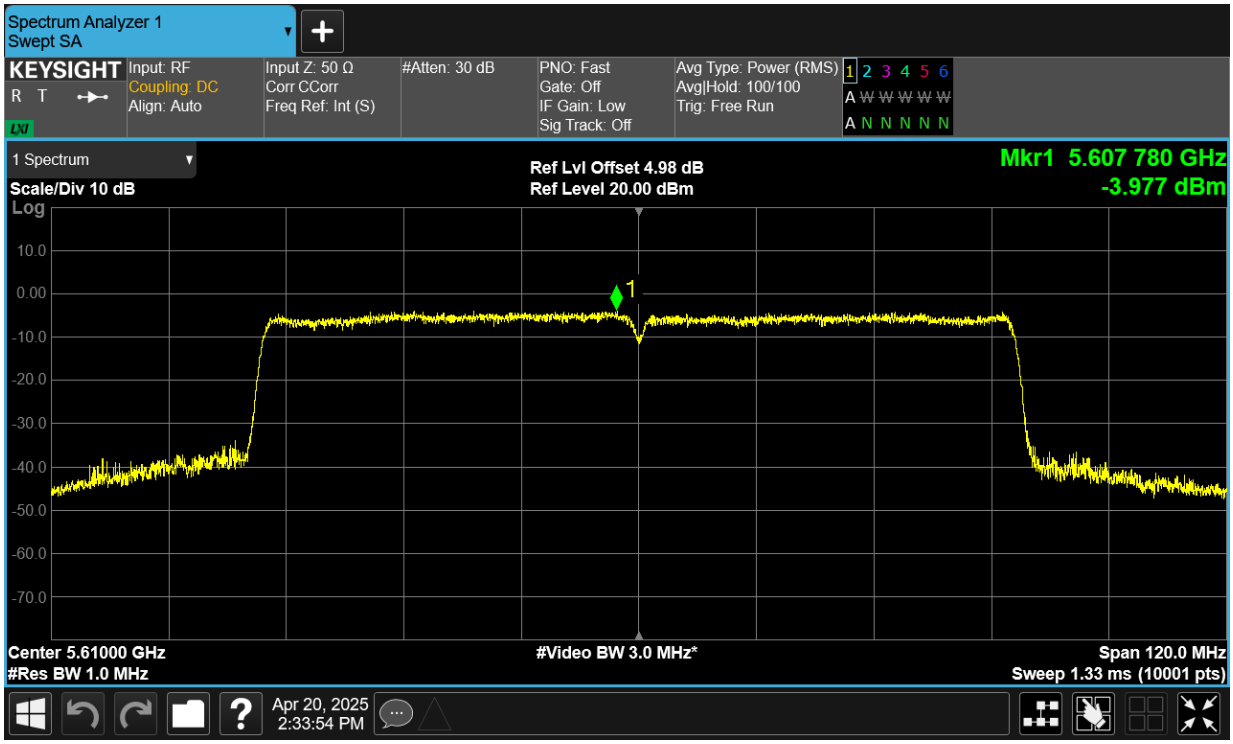
PSD NVNT ac40 5670MHz Ant1



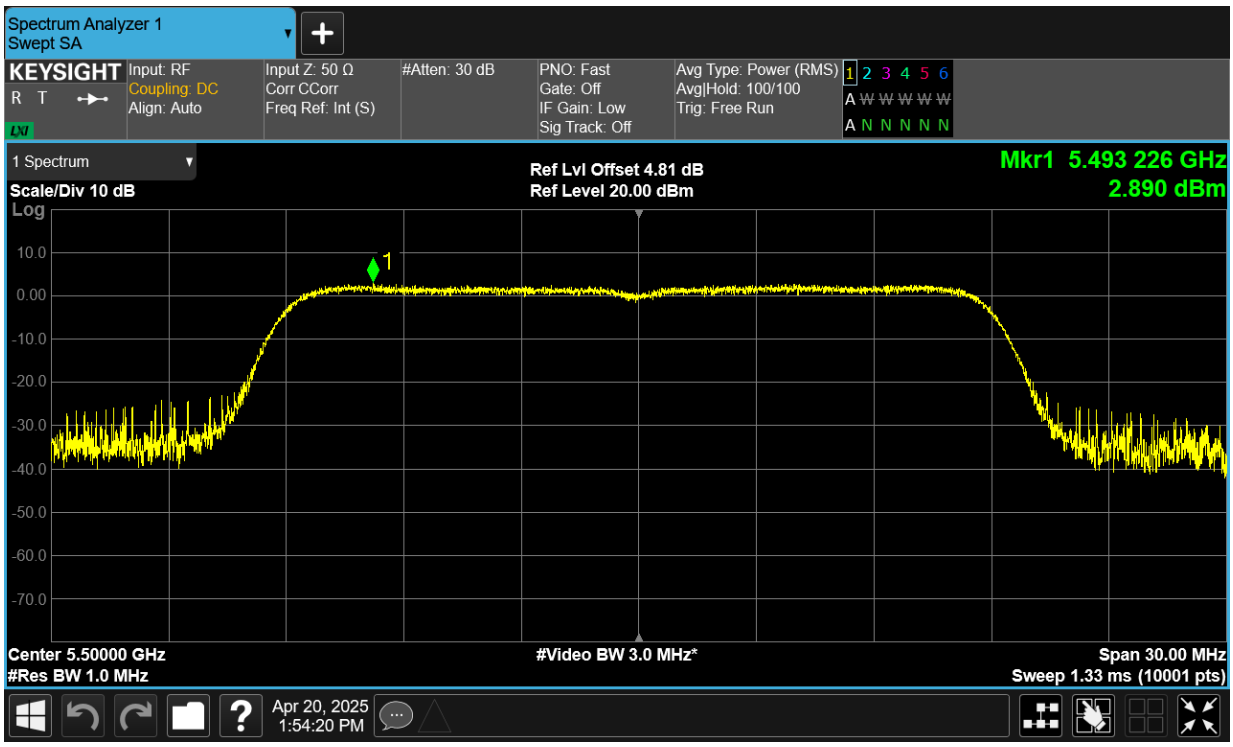
PSD NVNT ac80 5530MHz Ant1



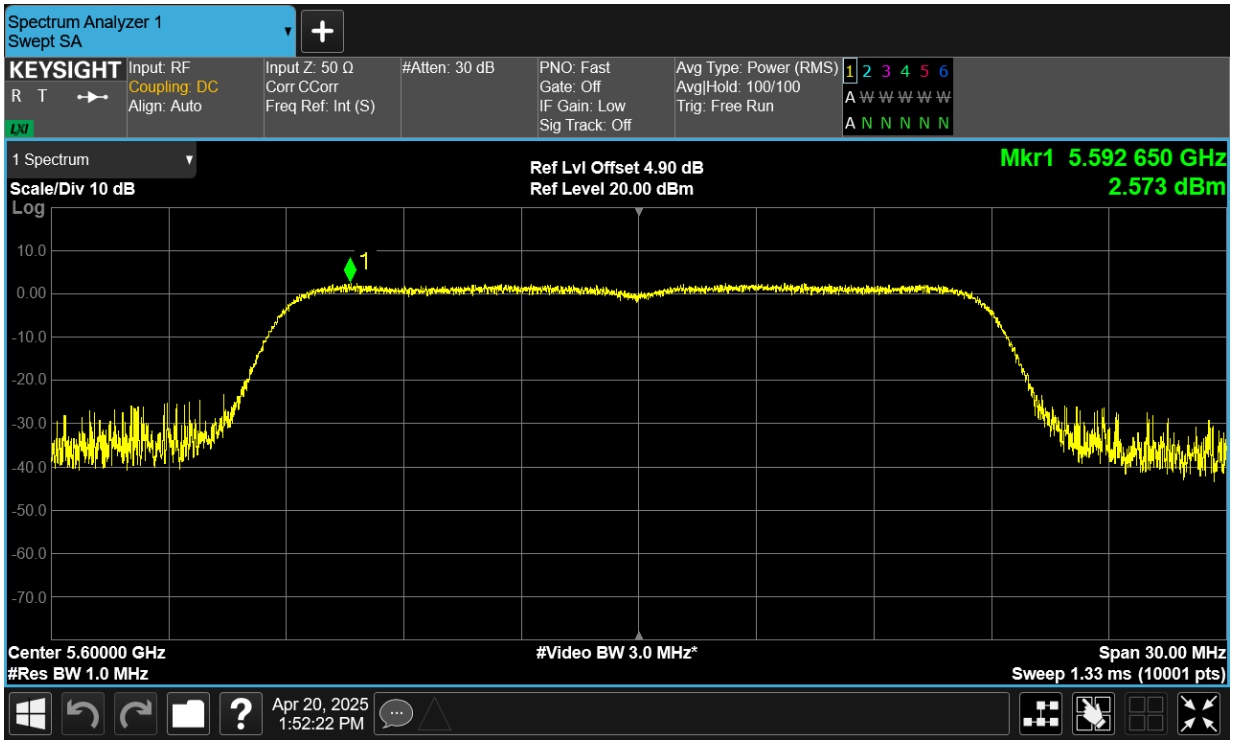
PSD NVNT ac80 5610MHz Ant1



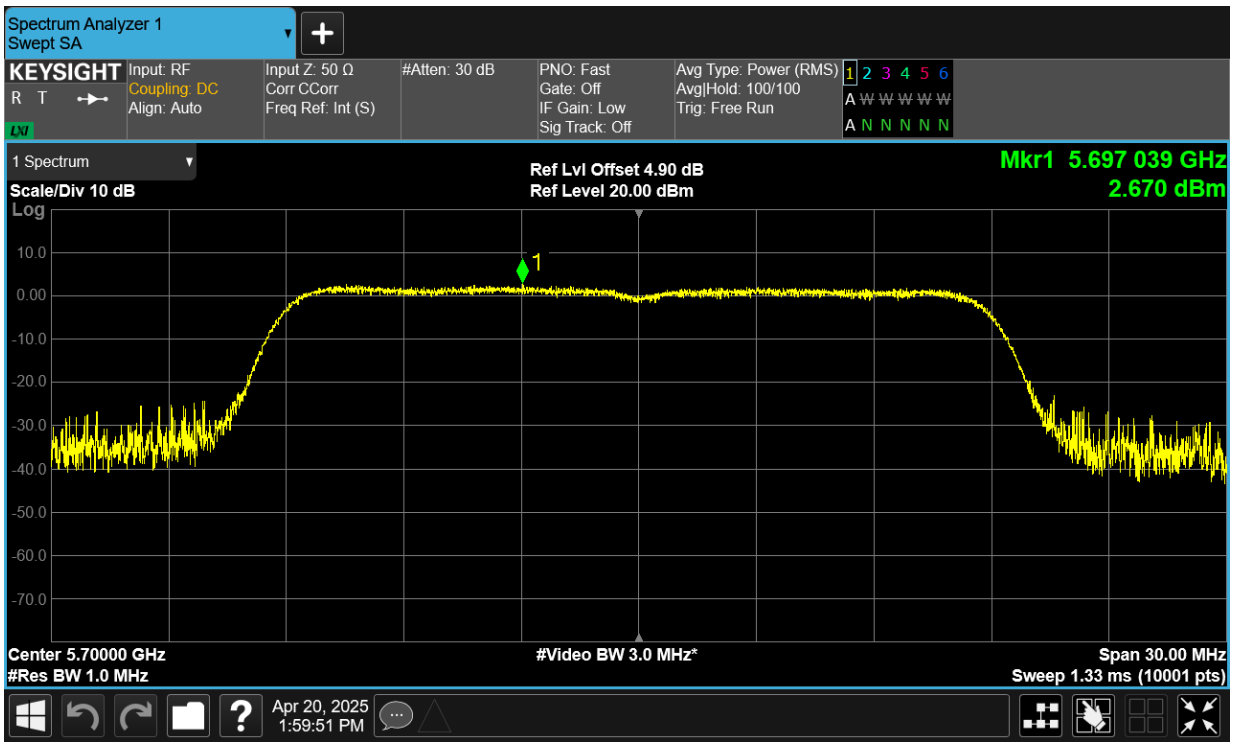
PSD NVNT n20 5500MHz Ant1



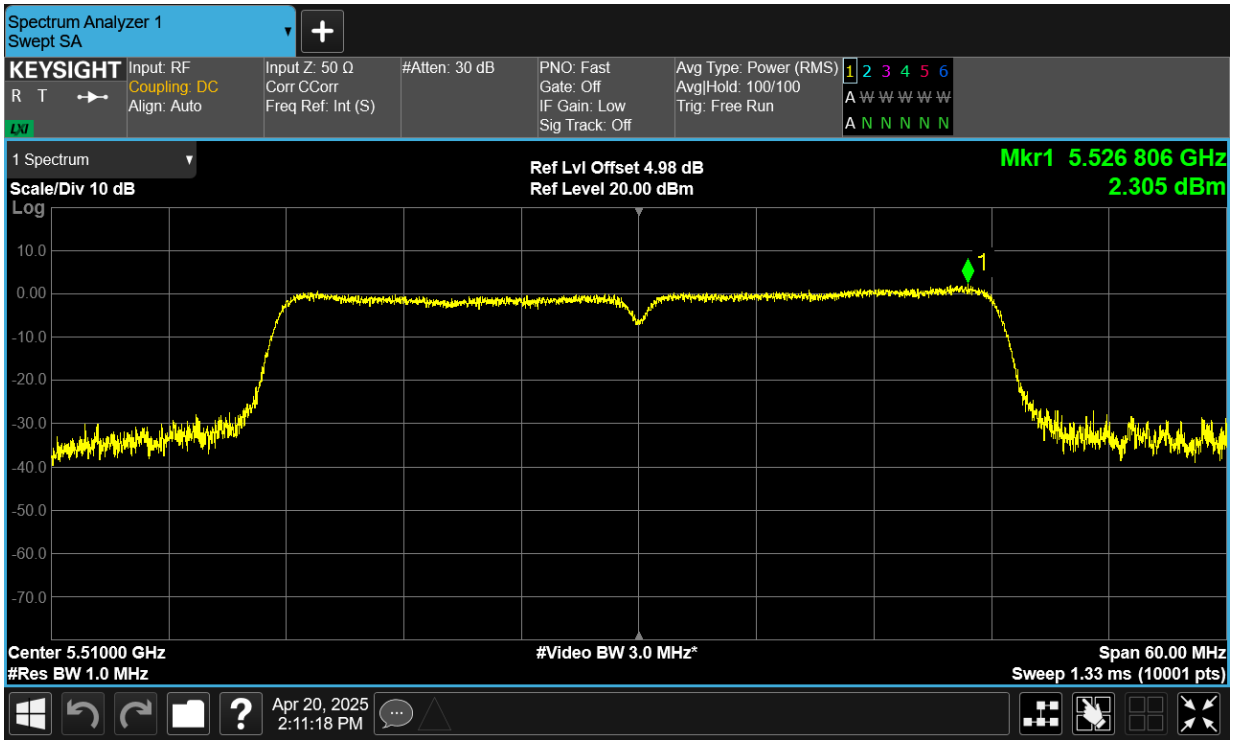
PSD NVNT n20 5600MHz Ant1



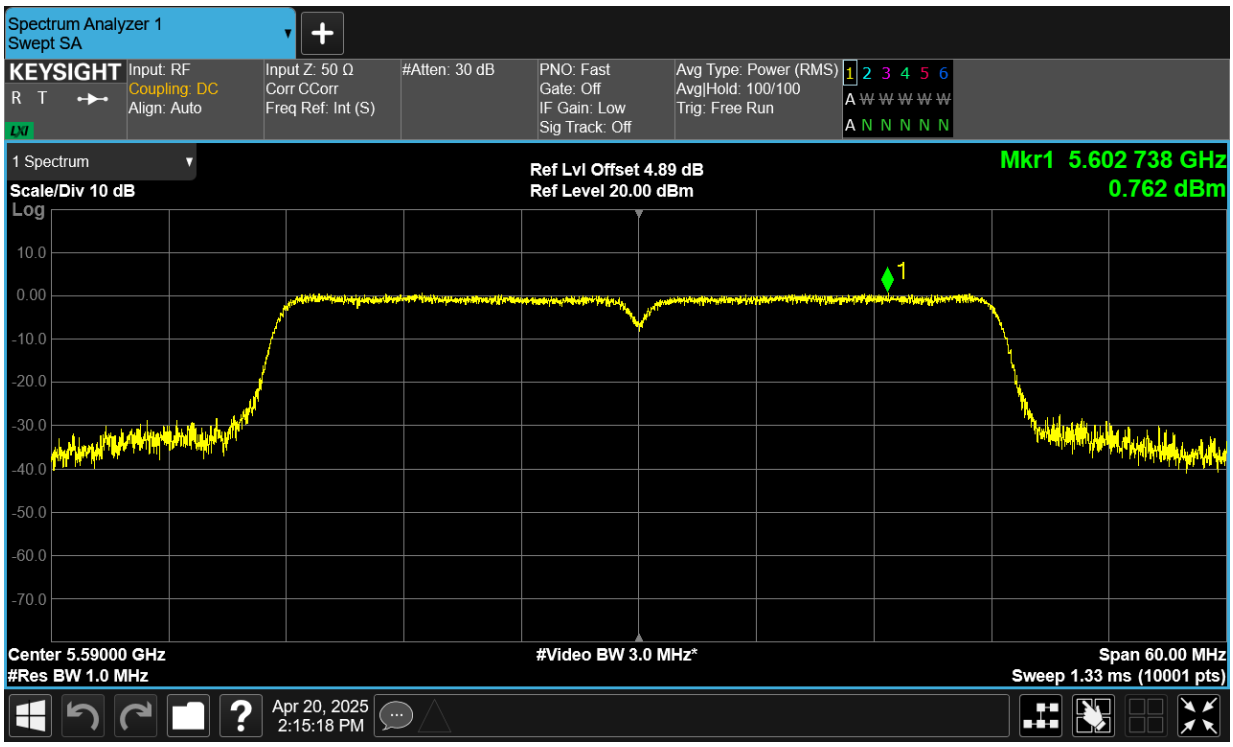
PSD NVNT n20 5700MHz Ant1



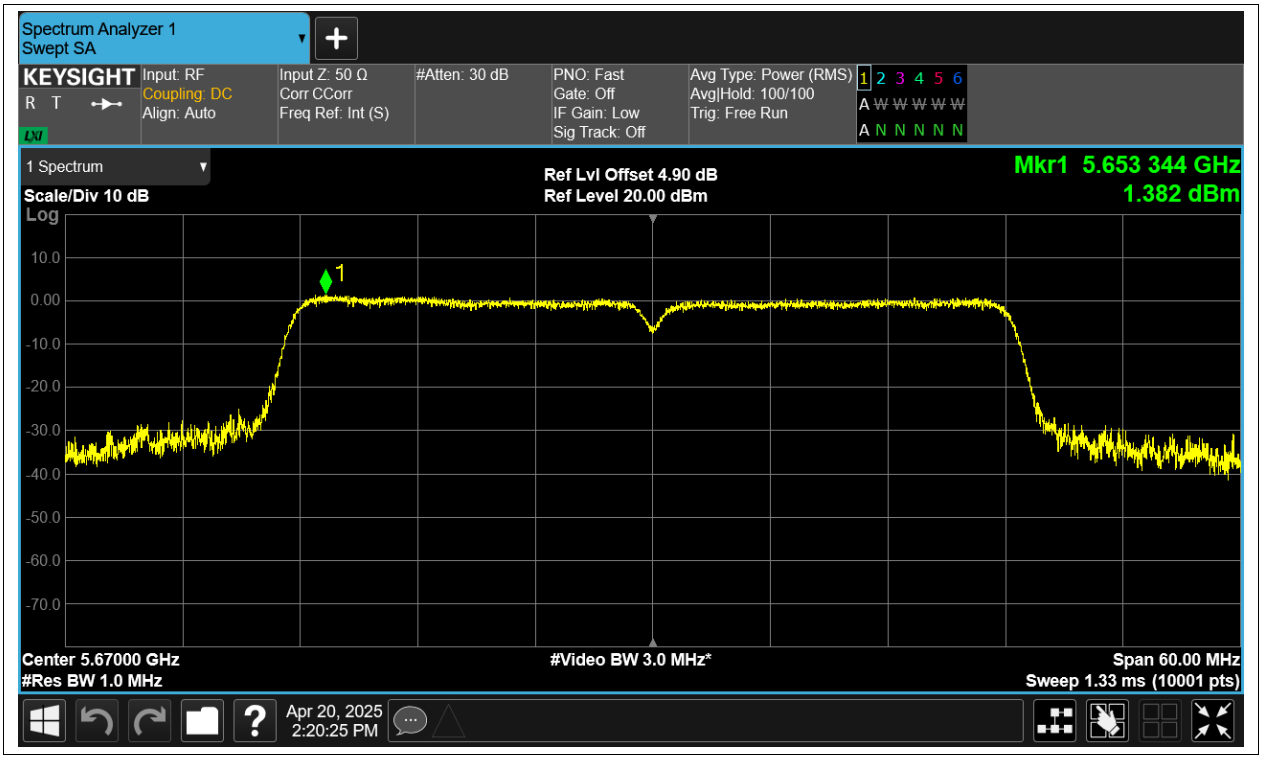
PSD NVNT n40 5510MHz Ant1



PSD NVNT n40 5590MHz Ant1



PSD NVNT n40 5670MHz Ant1


Spectrum Analyzer 1
Swept SA
KEYSIGHT
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: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 4.90 dB
Ref Level 20.00 dBm
Mkr1 5.653 344 GHz
1.382 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 5.67000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz*
Span 60.00 MHz
Sweep 1.33 ms (10001 pts)
Apr 20, 2025
2:20:25 PM