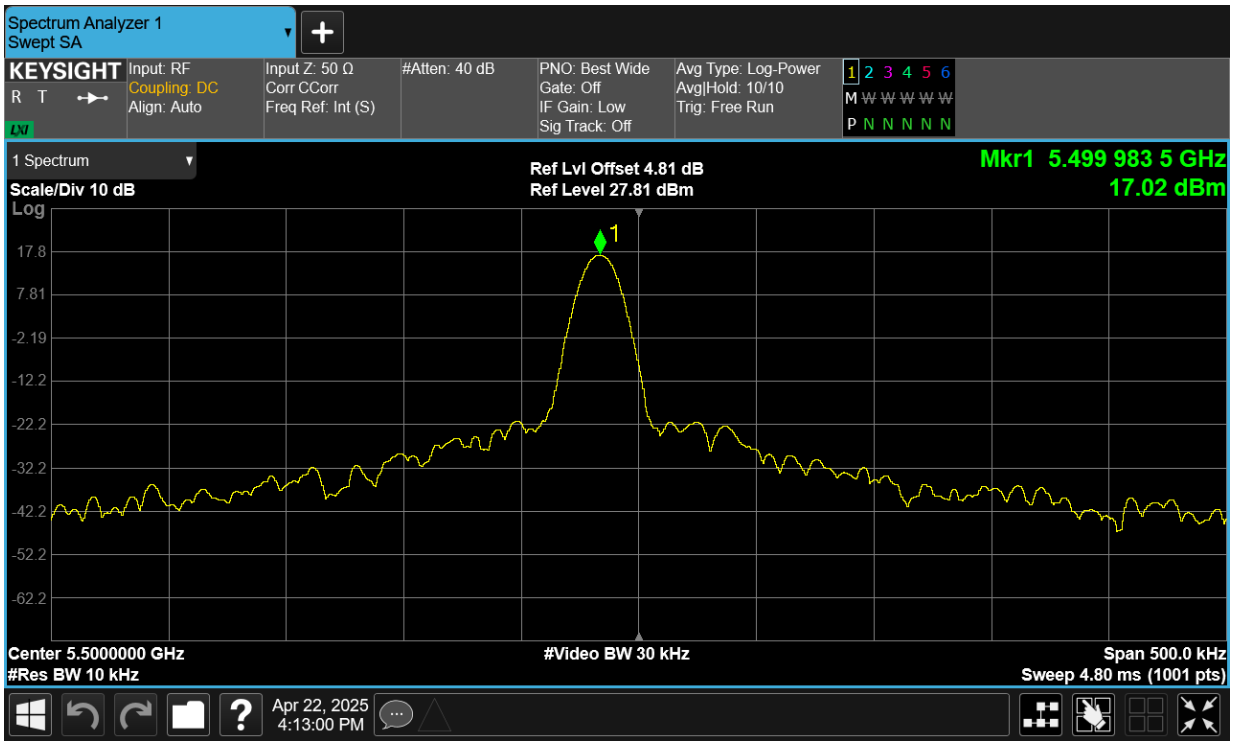
Test Data

Frequency Stability

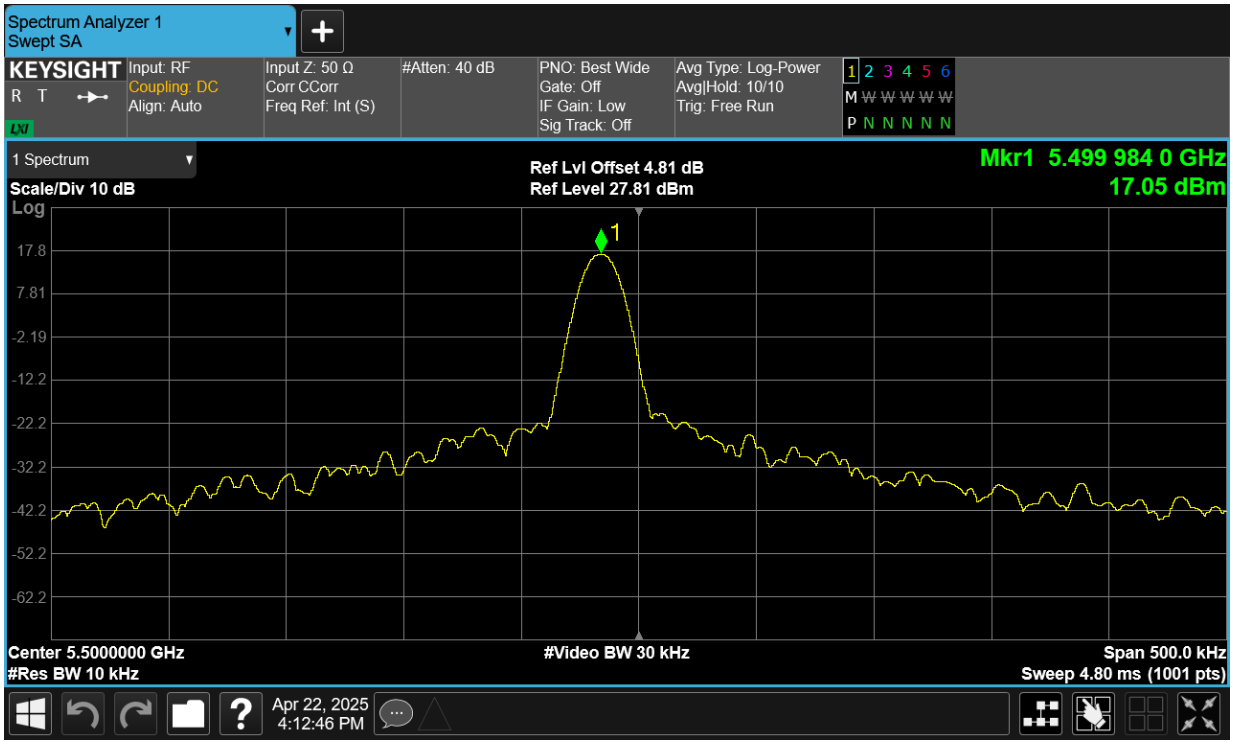
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5500	Ant3	5499.983	-3.09	Within authorized band	Pass
LVNT	a	5500	Ant3	5499.9835	-3		Pass
NVHT	a	5500	Ant3	5499.984	-2.91		Pass
NVLT	a	5500	Ant3	5499.9845	-2.82		Pass
NVNT	a	5500	Ant3	5499.985	-2.73		Pass
HVNT	ac80	5530	Ant3	5529.98	-3.62		Pass
LVNT	ac80	5530	Ant3	5529.9805	-3.53		Pass
NVHT	ac80	5530	Ant3	5529.981	-3.44		Pass
NVLT	ac80	5530	Ant3	5529.9815	-3.35		Pass
NVNT	ac80	5530	Ant3	5529.9825	-3.16		Pass
HVNT	n40	5510	Ant3	5509.9815	-3.36		Pass
LVNT	n40	5510	Ant3	5509.9815	-3.36		Pass
NVHT	n40	5510	Ant3	5509.982	-3.27		Pass
NVLT	n40	5510	Ant3	5509.982	-3.27		Pass
NVNT	n40	5510	Ant3	5509.9825	-3.18		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 Ant3

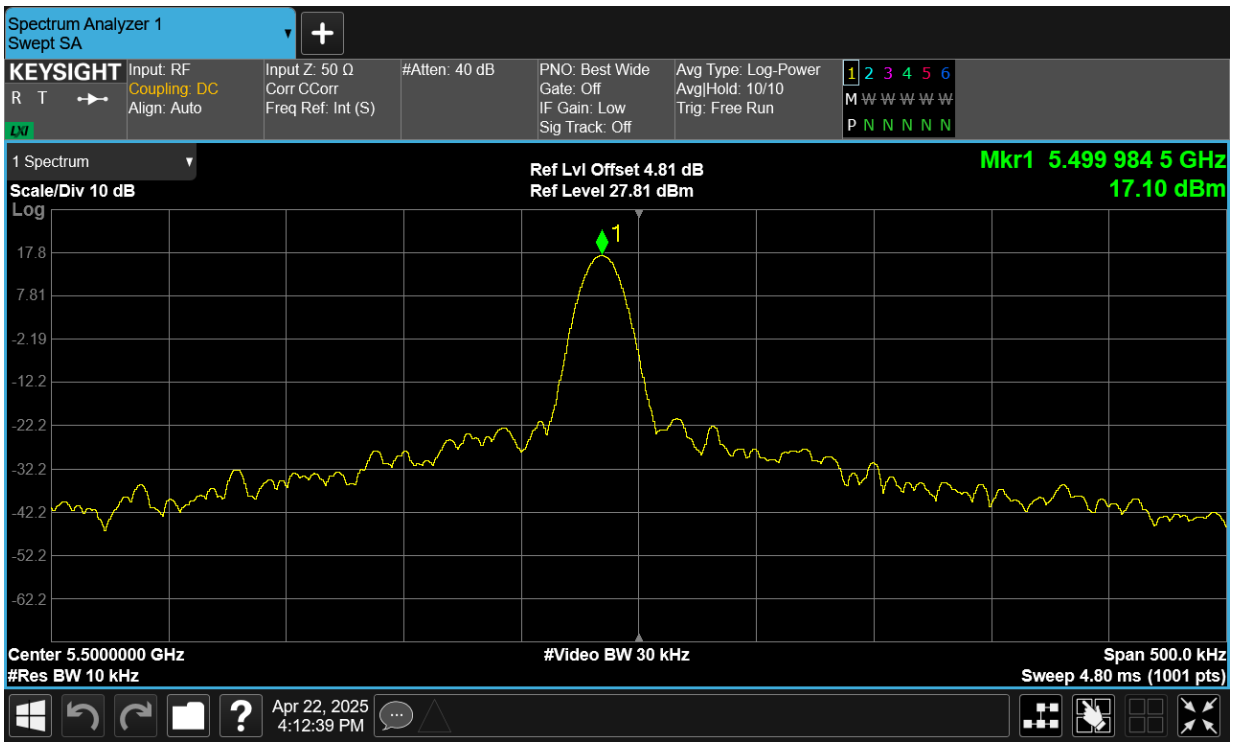
Freq. Stability LVNT a 5500MHz Ant3



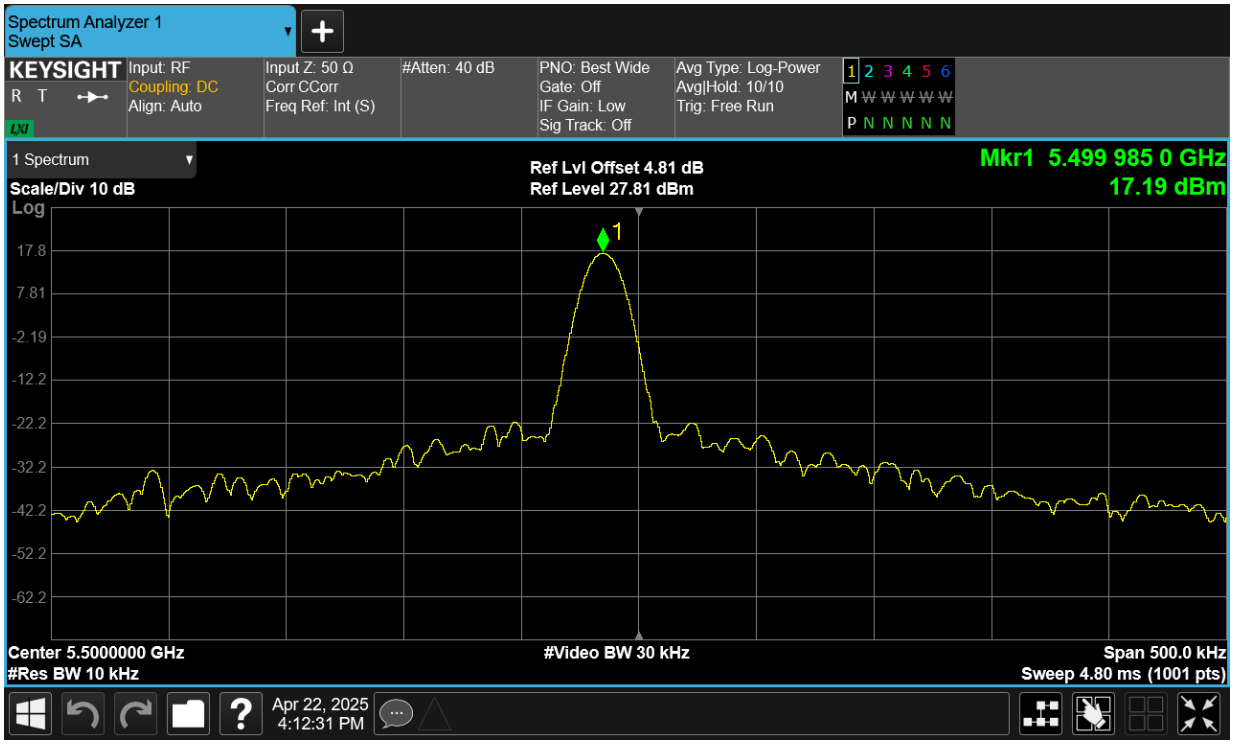
Freq. Stability NVHT a 5500MHz Ant3



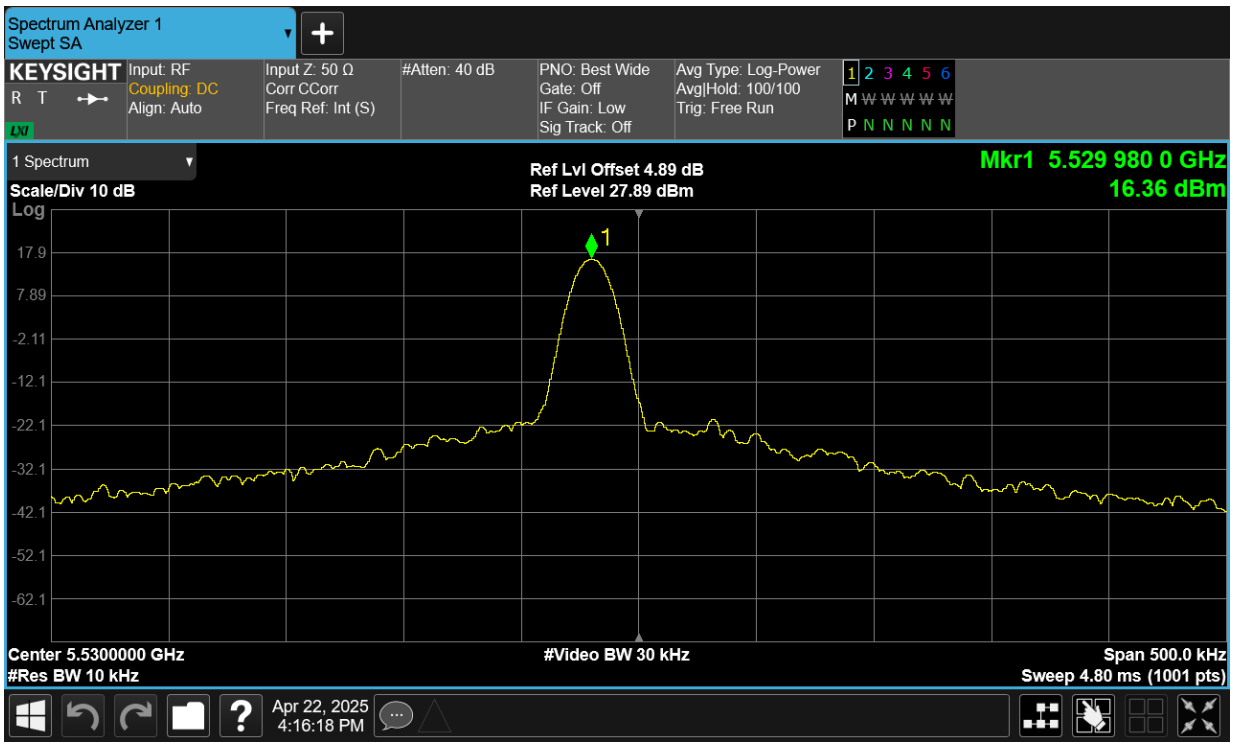
Freq. Stability NVLT a 5500MHz Ant3



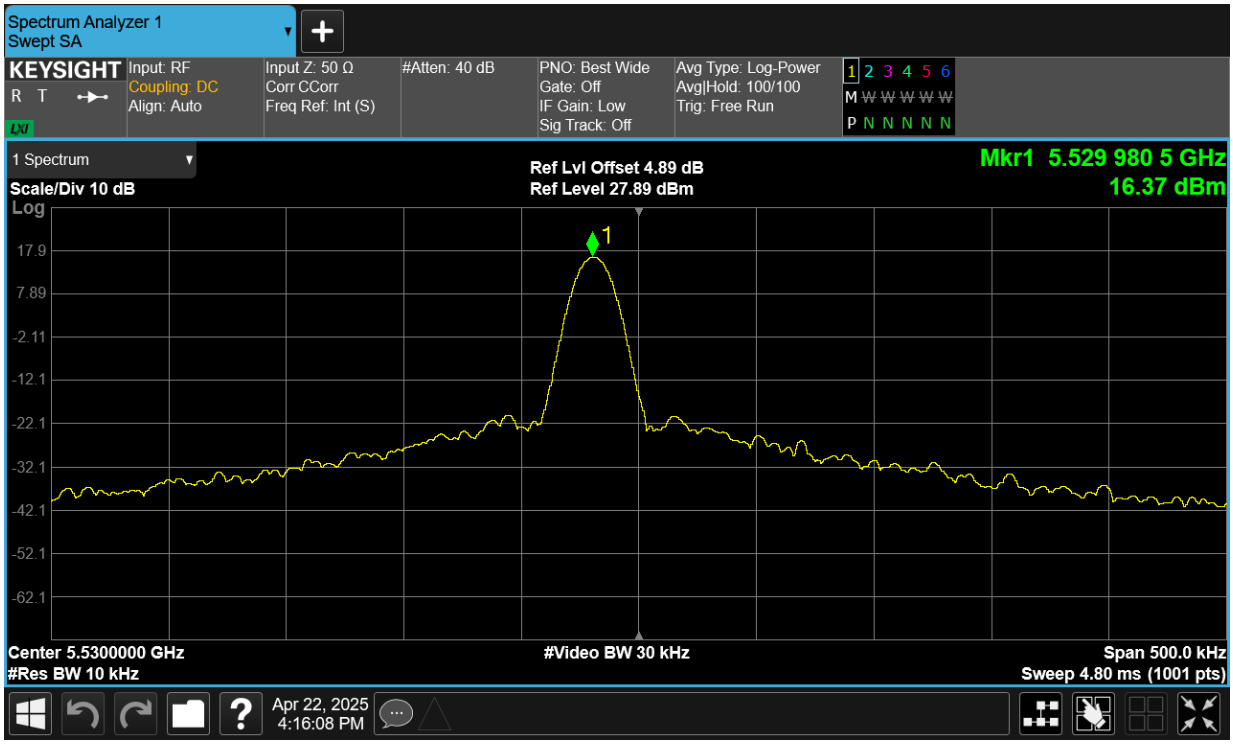
Freq. Stability NVNT a 5500MHz Ant3



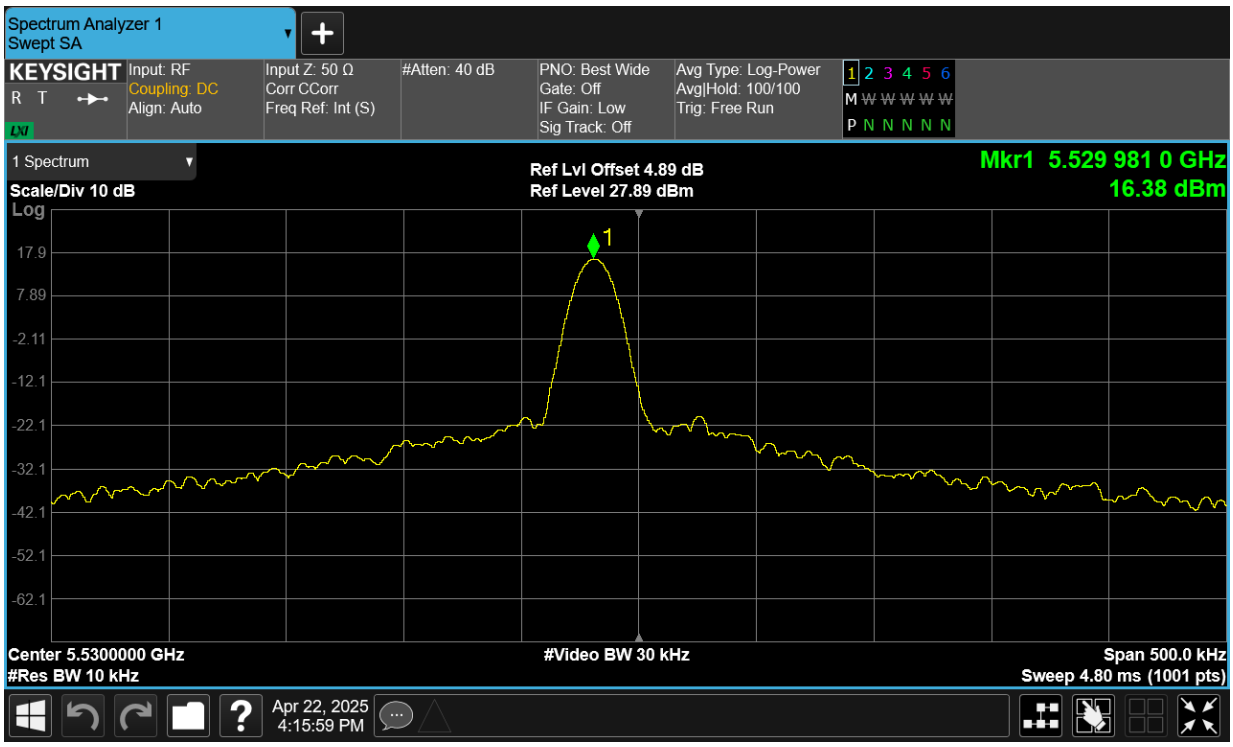
Freq. Stability HVNT ac80 5530MHz Ant3



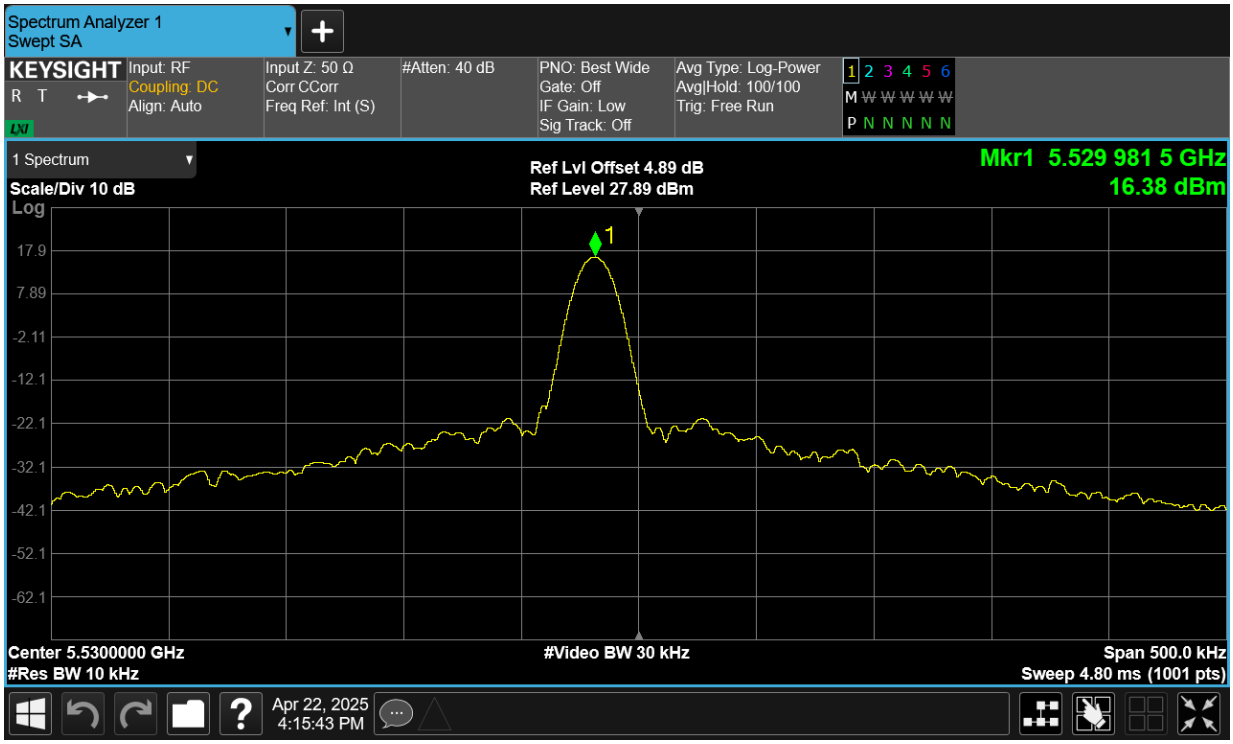
Freq. Stability LVNT ac80 5530MHz Ant3



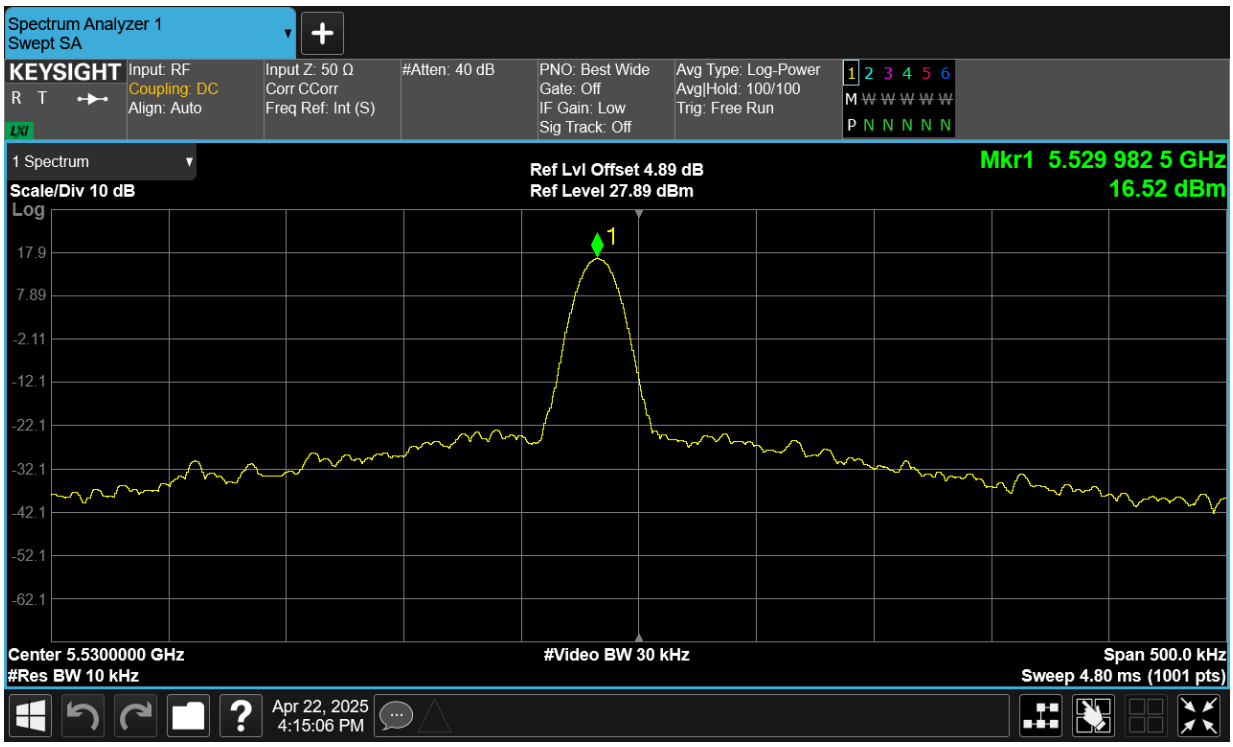
Freq. Stability NVHT ac80 5530MHz Ant3



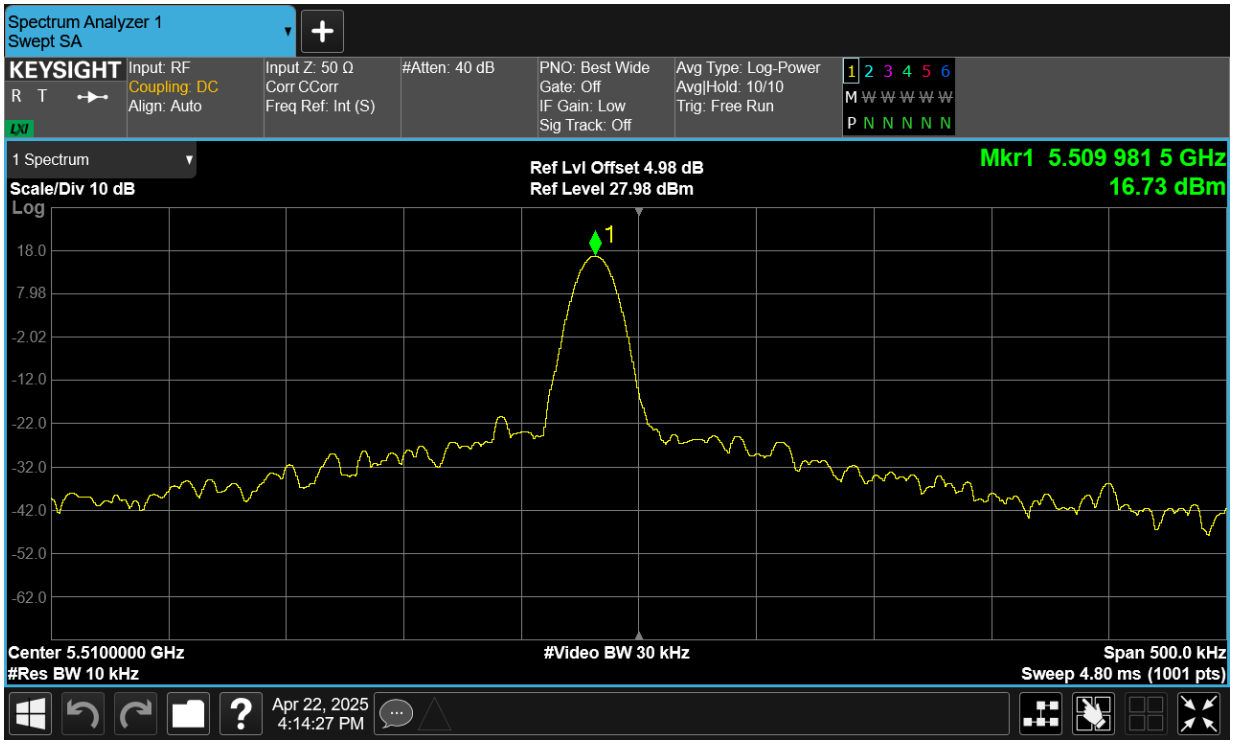
Freq. Stability NVLT ac80 5530MHz Ant3



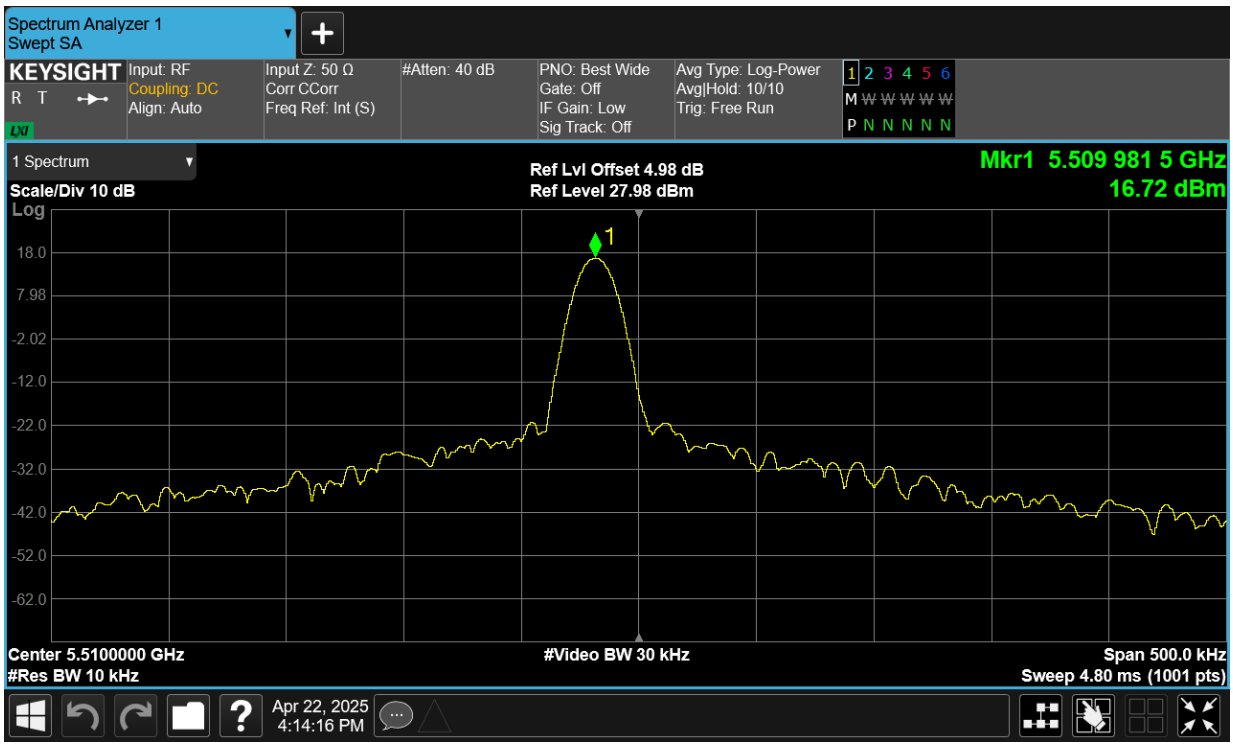
Freq. Stability NVNT ac80 5530MHz Ant3



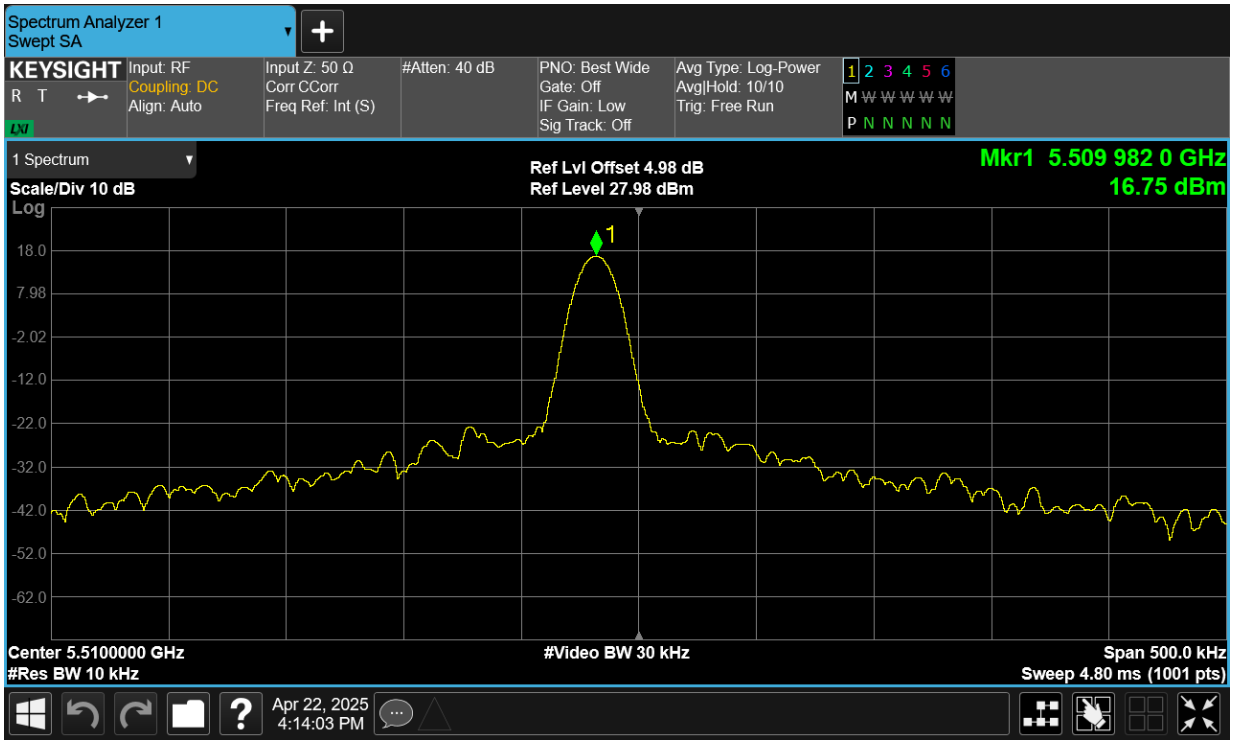
Freq. Stability HVNT n40 5510MHz Ant3



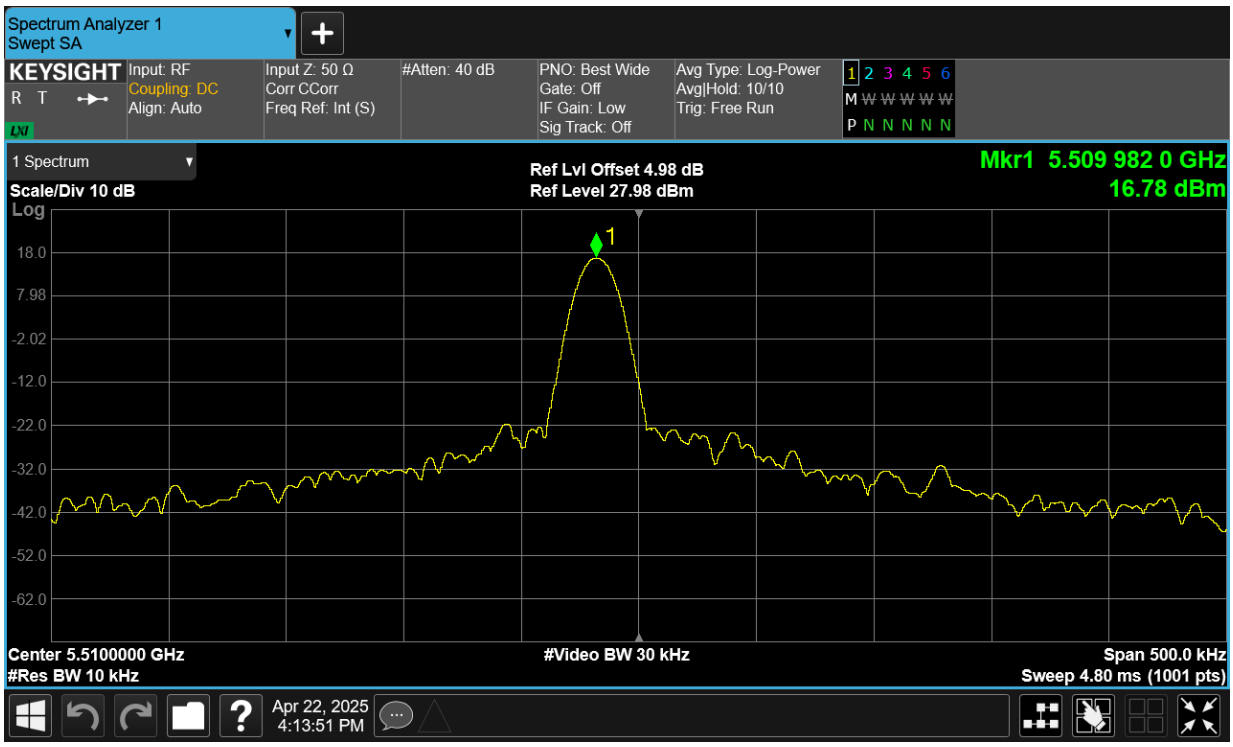
Freq. Stability LVNT n40 5510MHz Ant3



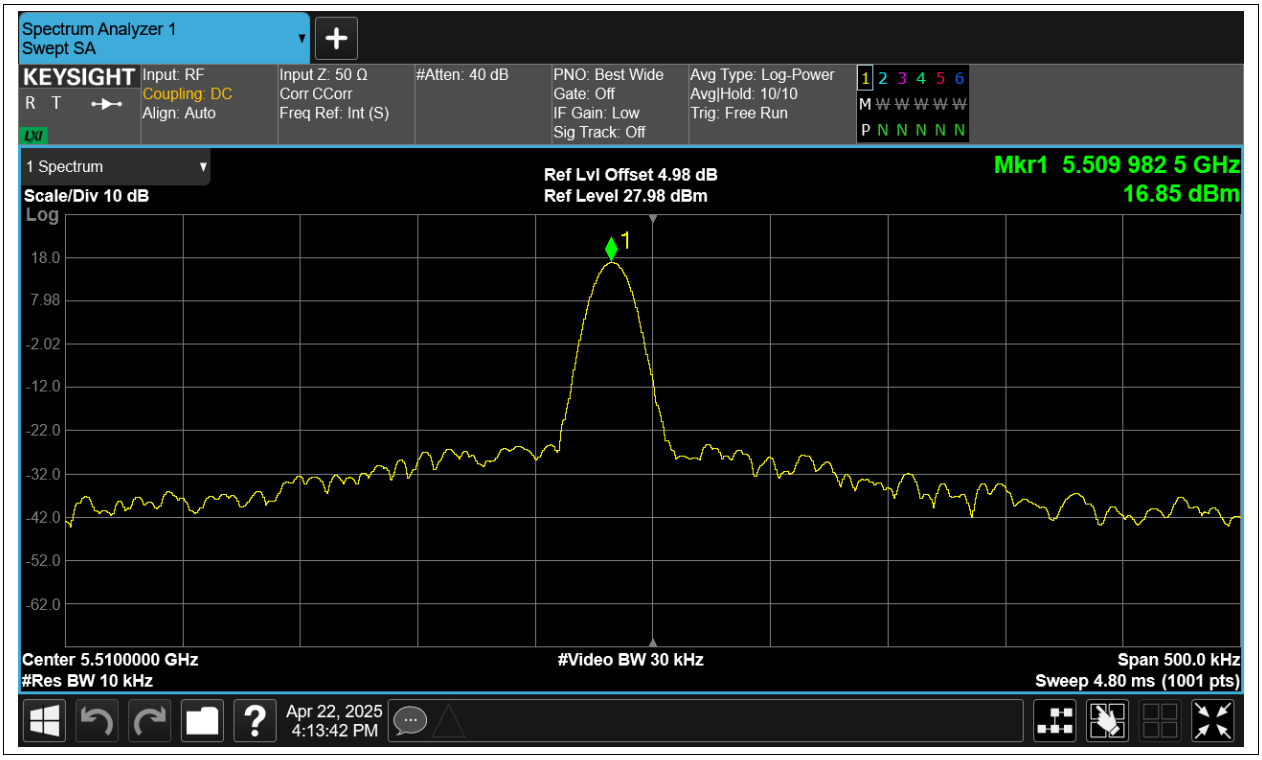
Freq. Stability NVHT n40 5510MHz Ant3



Freq. Stability NVLT n40 5510MHz Ant3



Freq. Stability NVNT n40 5510MHz Ant3

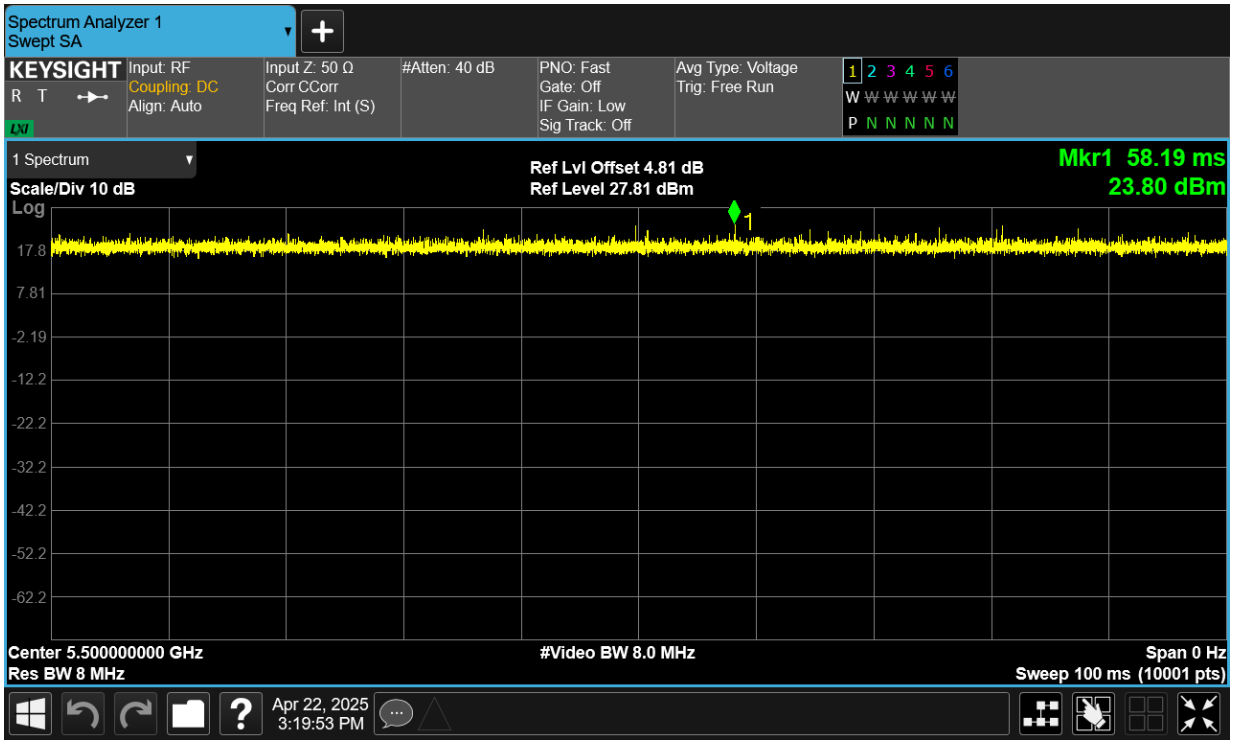

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 4.98 dB
Ref Level 27.98 dBm
Mkr1 5.509 982 5 GHz
16.85 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 22, 2025
4:13:42 PM

Duty Cycle

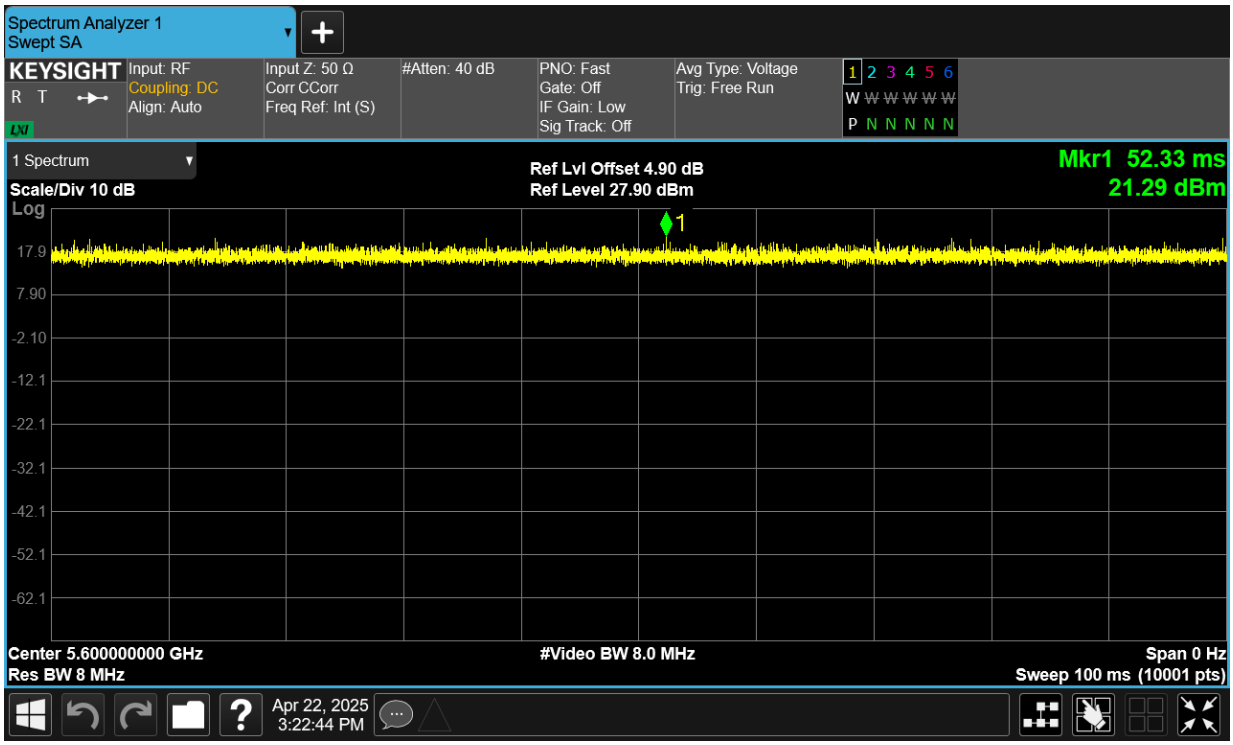
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5500	Ant3	100	0
NVNT	a	5600	Ant3	100	0
NVNT	a	5700	Ant3	100	0
NVNT	ac20	5500	Ant3	100	0
NVNT	ac20	5600	Ant3	100	0
NVNT	ac20	5700	Ant3	100	0
NVNT	ac40	5510	Ant3	100	0
NVNT	ac40	5590	Ant3	100	0
NVNT	ac40	5670	Ant3	100	0
NVNT	ac80	5530	Ant3	100	0
NVNT	ac80	5610	Ant3	100	0
NVNT	n20	5500	Ant3	100	0
NVNT	n20	5600	Ant3	100	0
NVNT	n20	5700	Ant3	100	0
NVNT	n40	5510	Ant3	100	0
NVNT	n40	5590	Ant3	100	0
NVNT	n40	5670	Ant3	100	0

Test Graphs

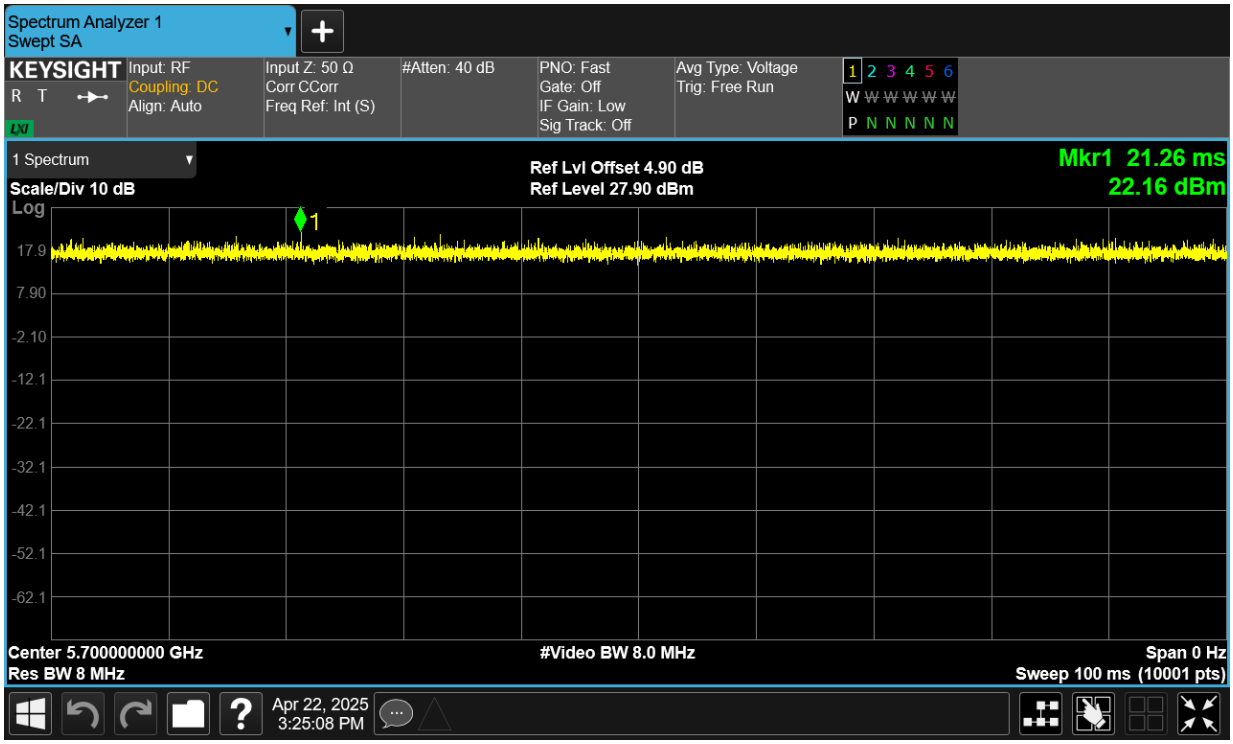
Duty Cycle NVNT a 5500MHz Ant3



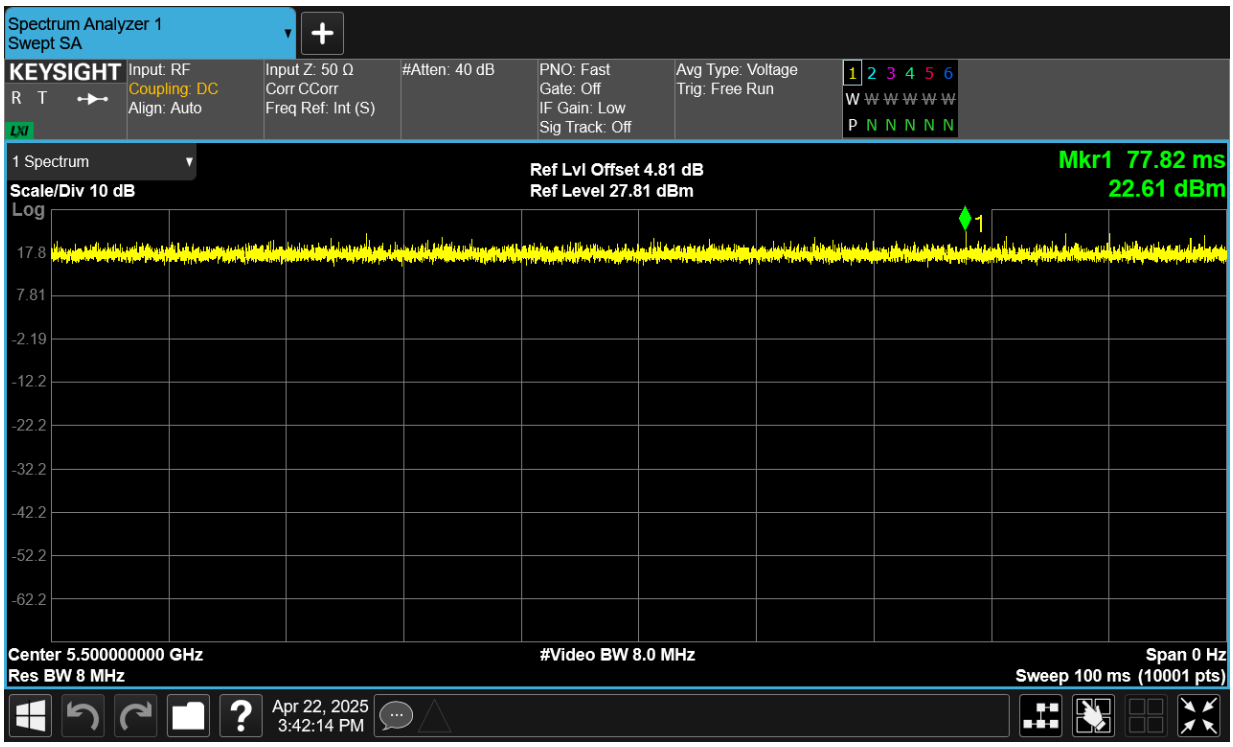
Duty Cycle NVNT a 5600MHz Ant3



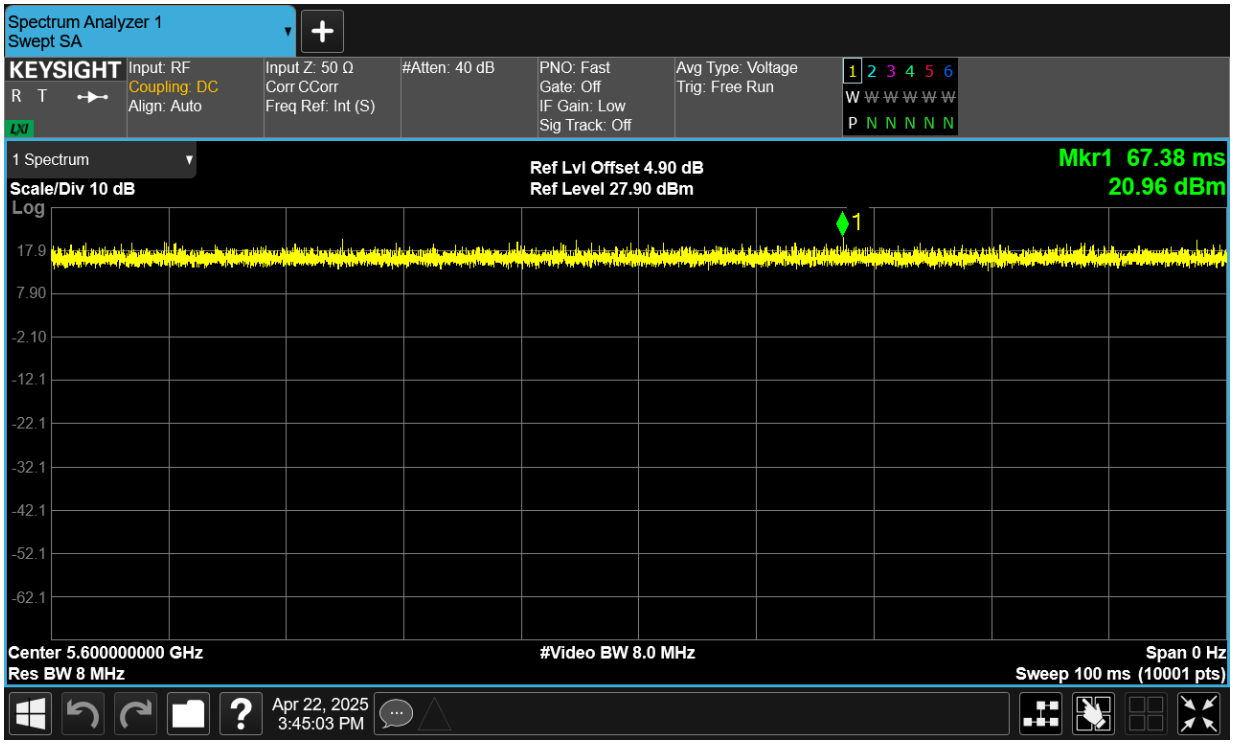
Duty Cycle NVNT a 5700MHz Ant3



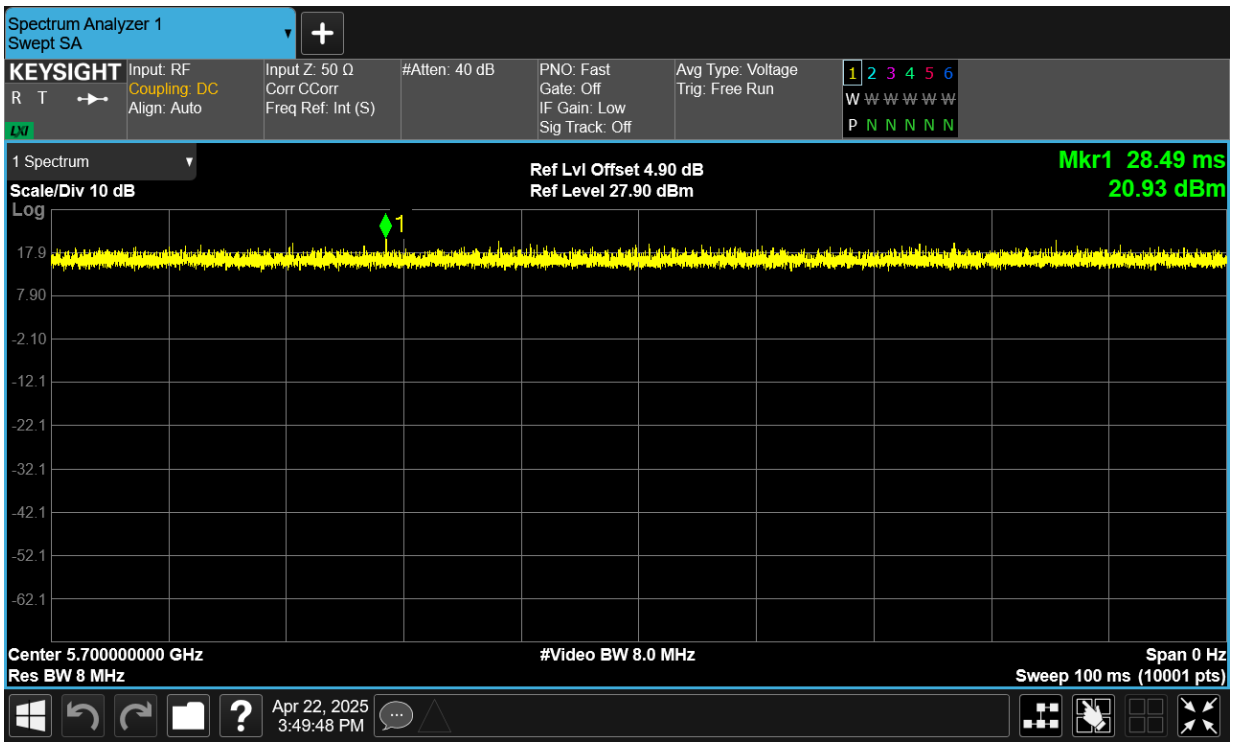
Duty Cycle NVNT ac20 5500MHz Ant3



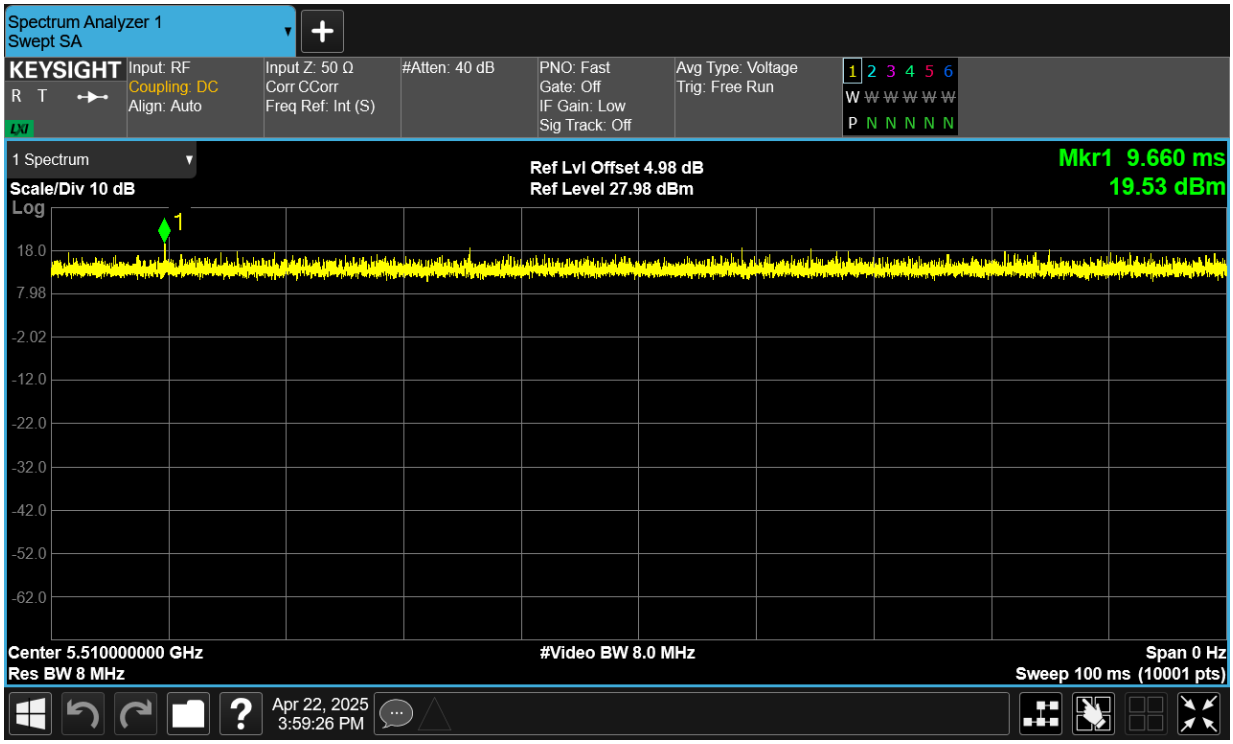
Duty Cycle NVNT ac20 5600MHz Ant3



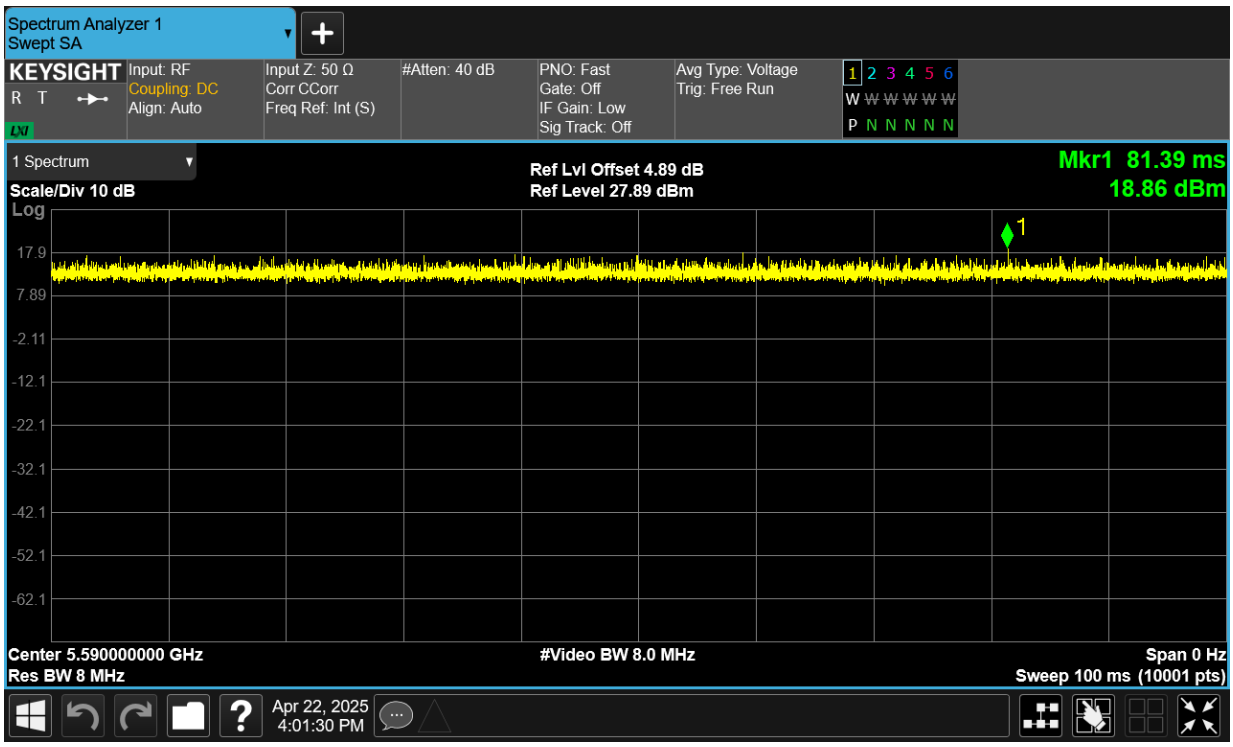
Duty Cycle NVNT ac20 5700MHz Ant3



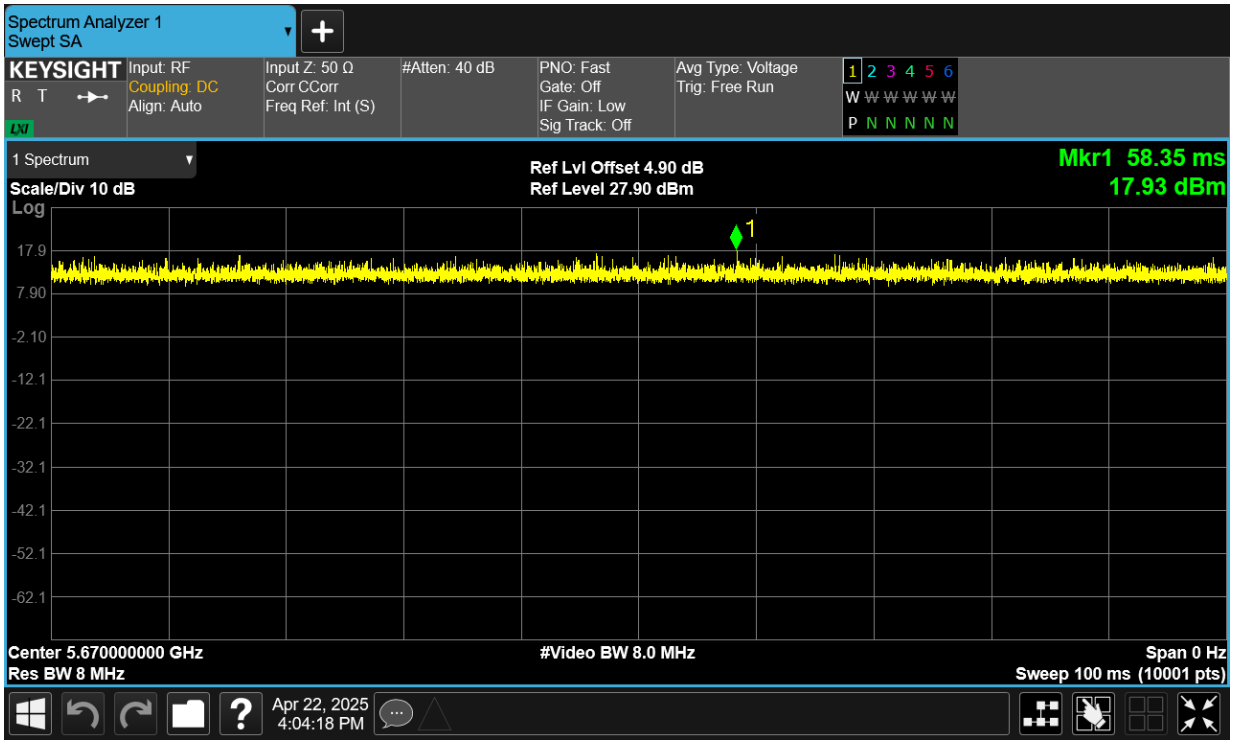
Duty Cycle NVNT ac40 5510MHz Ant3



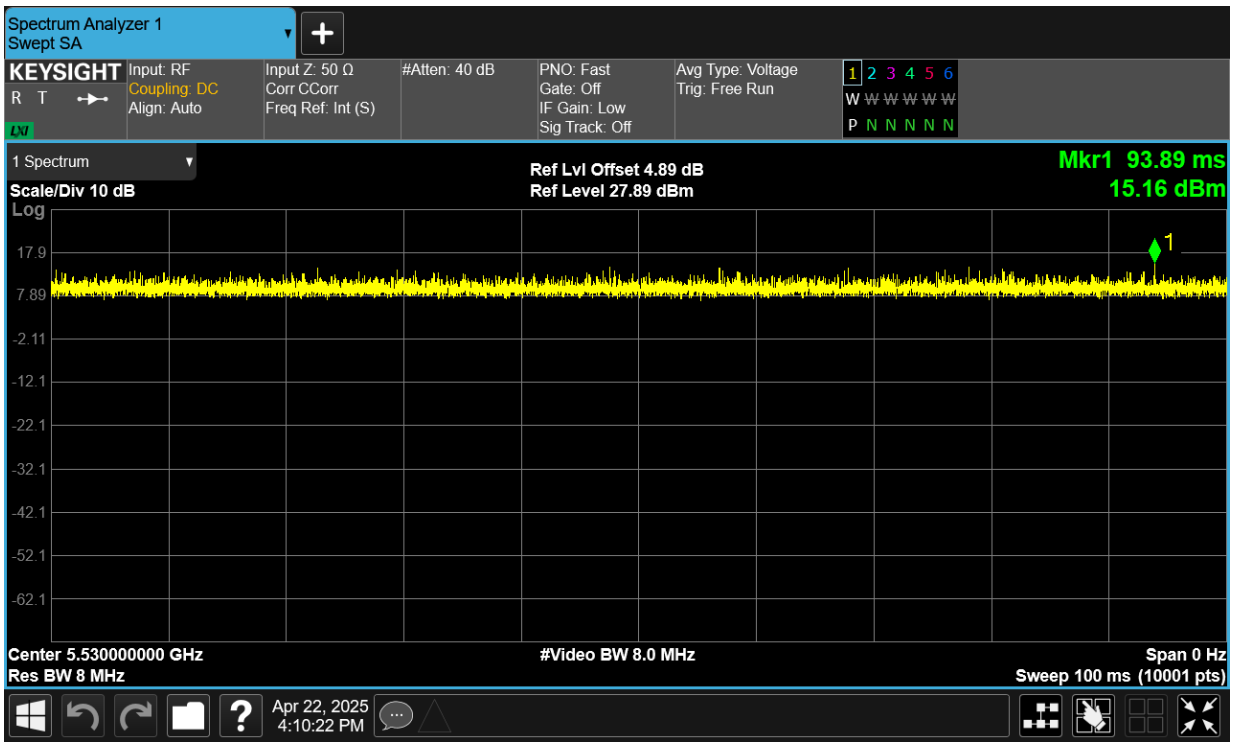
Duty Cycle NVNT ac40 5590MHz Ant3



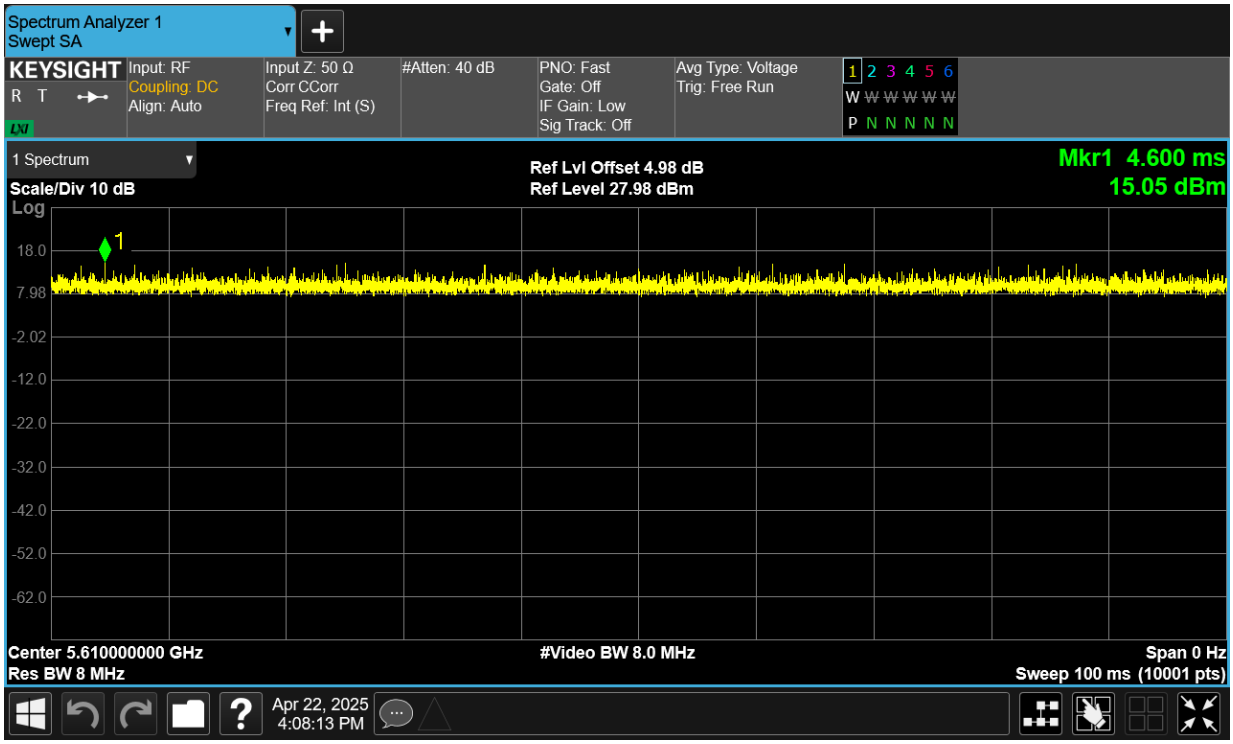
Duty Cycle NVNT ac40 5670MHz Ant3



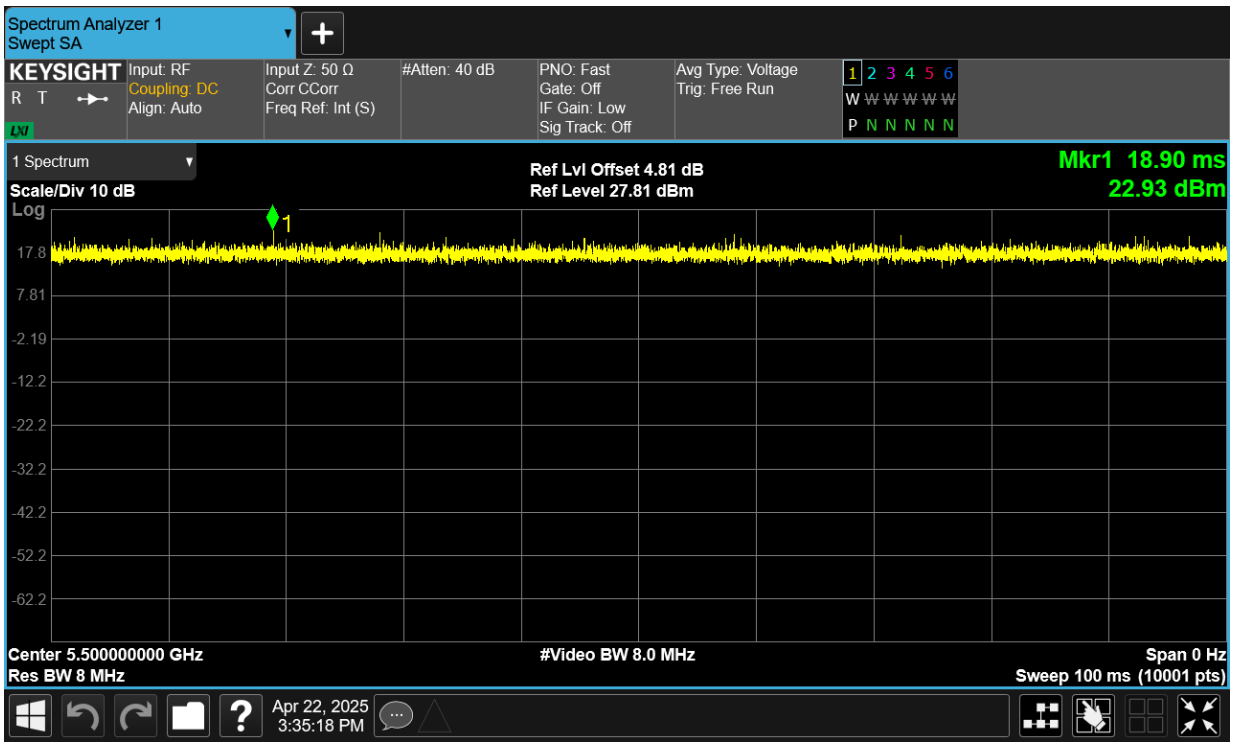
Duty Cycle NVNT ac80 5530MHz Ant3



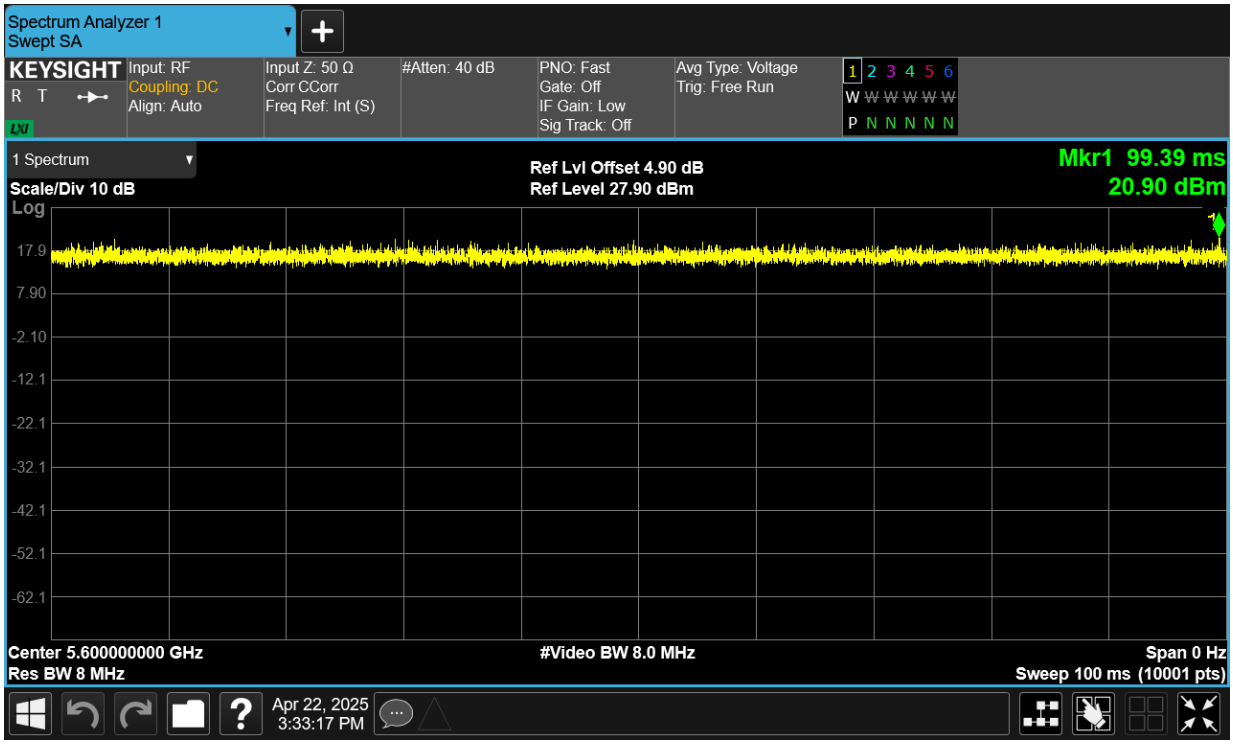
Duty Cycle NVNT ac80 5610MHz Ant3



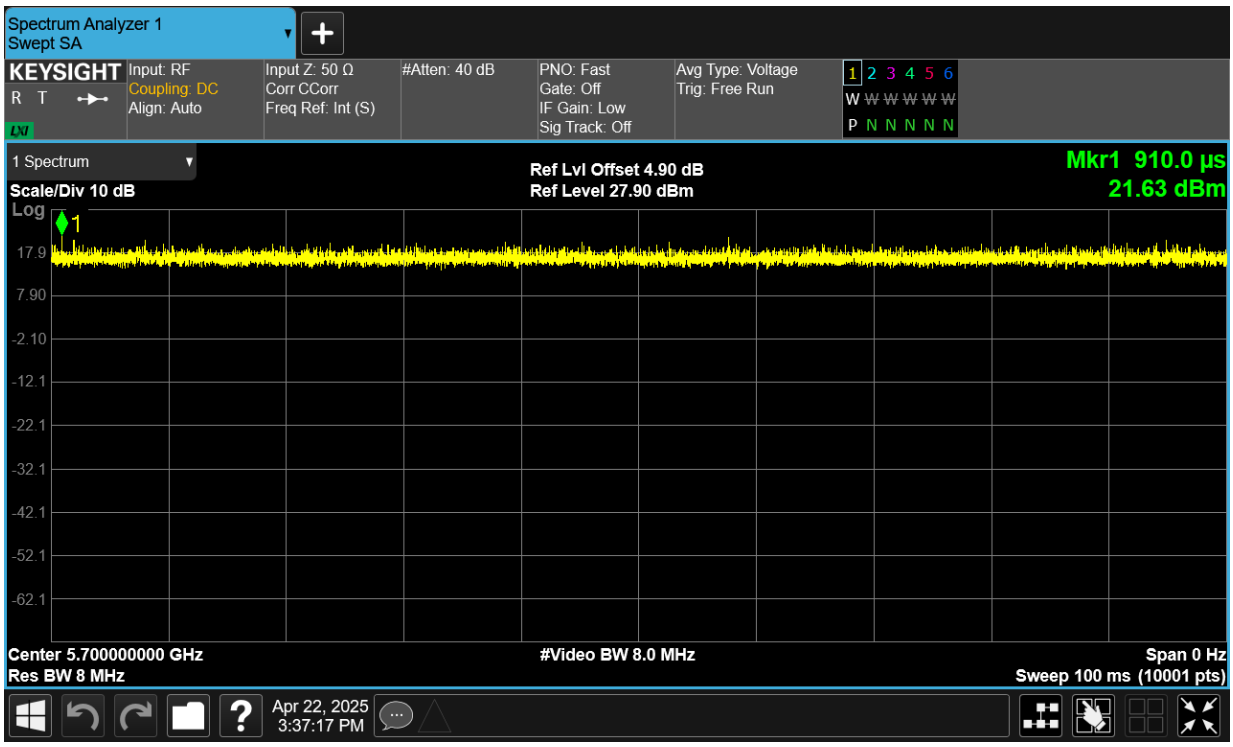
Duty Cycle NVNT n20 5500MHz Ant3



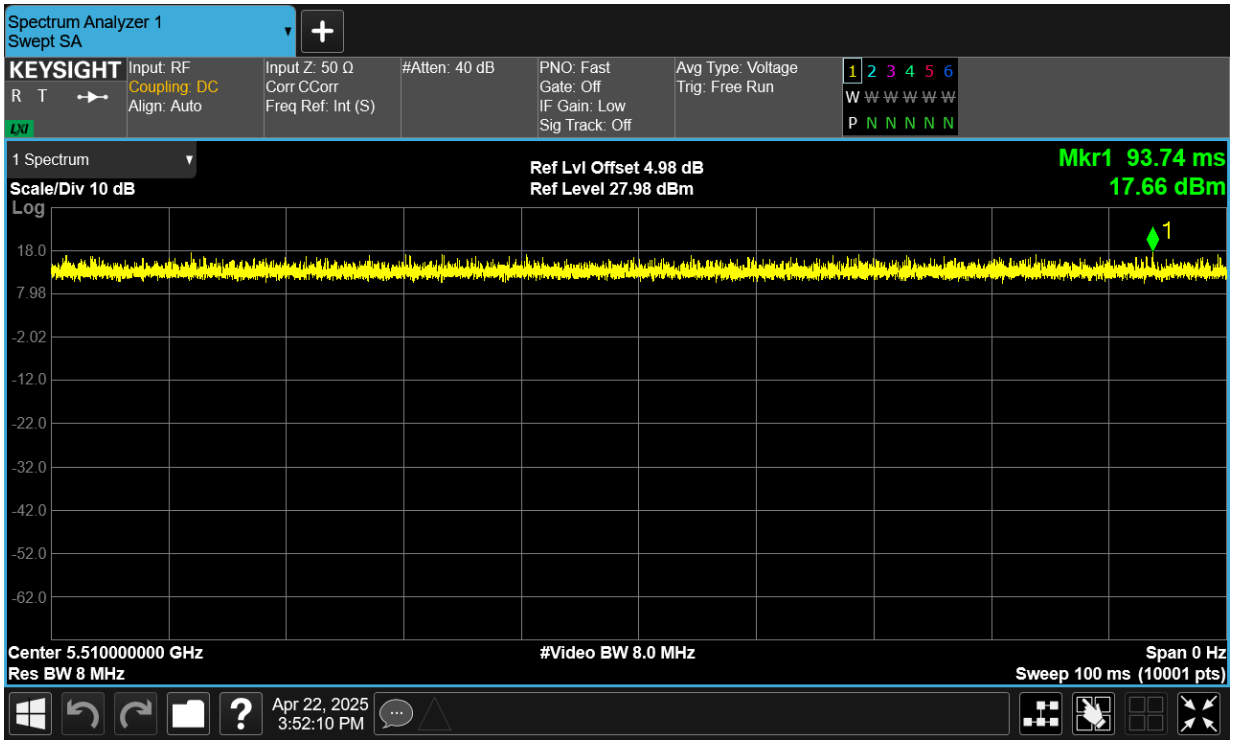
Duty Cycle NVNT n20 5600MHz Ant3



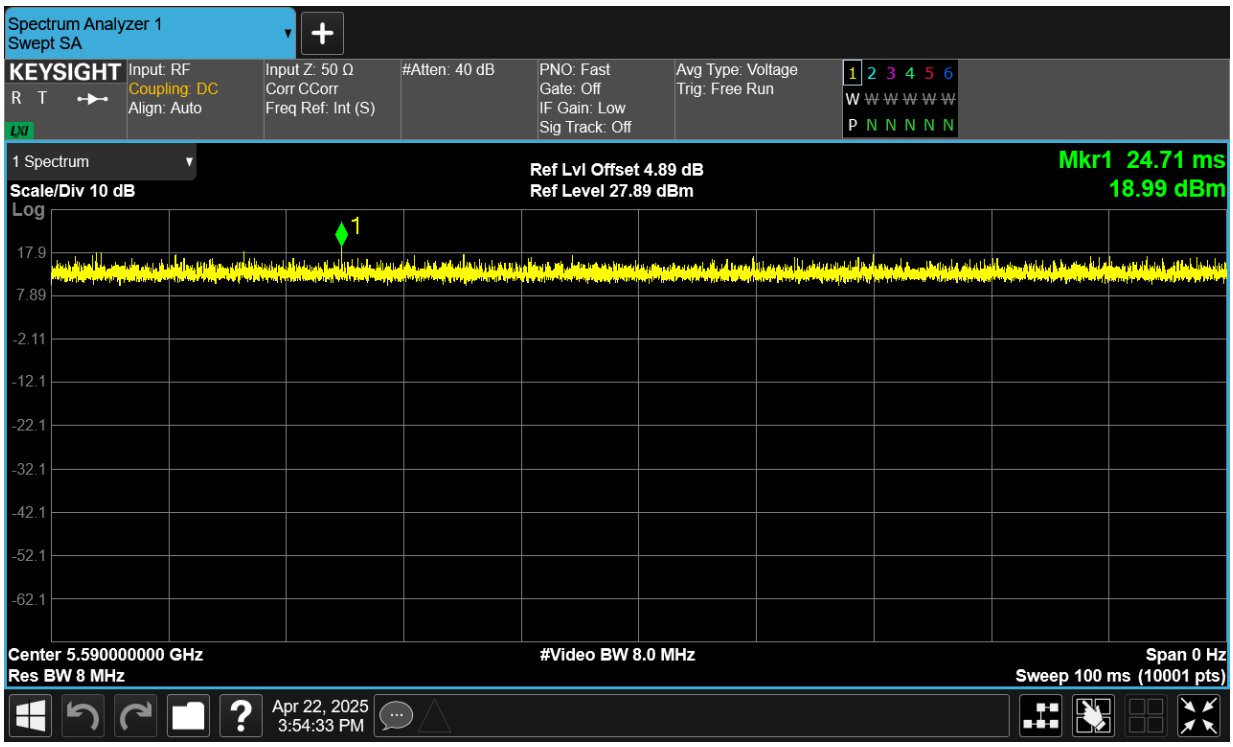
Duty Cycle NVNT n20 5700MHz Ant3



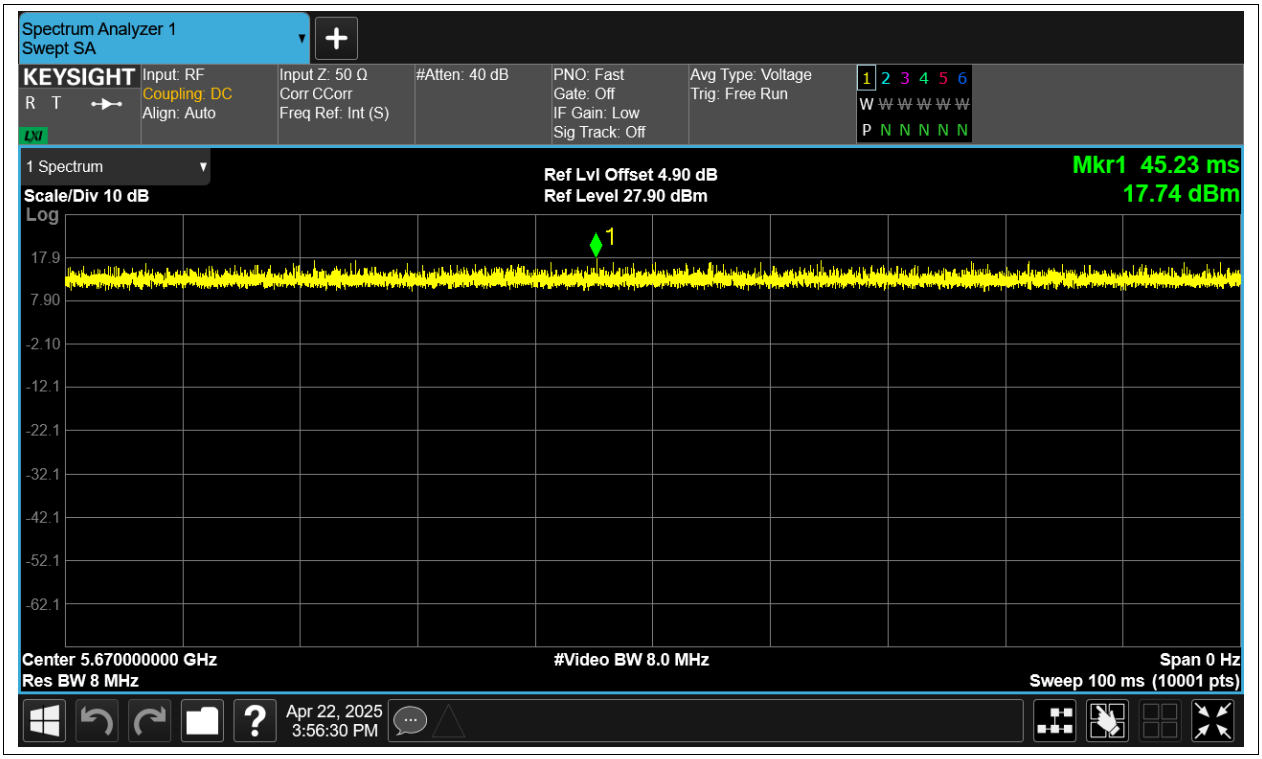
Duty Cycle NVNT n40 5510MHz Ant3



Duty Cycle NVNT n40 5590MHz Ant3



Duty Cycle NVNT n40 5670MHz Ant3


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 4.90 dB
Ref Level 27.90 dBm
Mkr1 45.23 ms
17.74 dBm
Log
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 22, 2025
3:56:30 PM

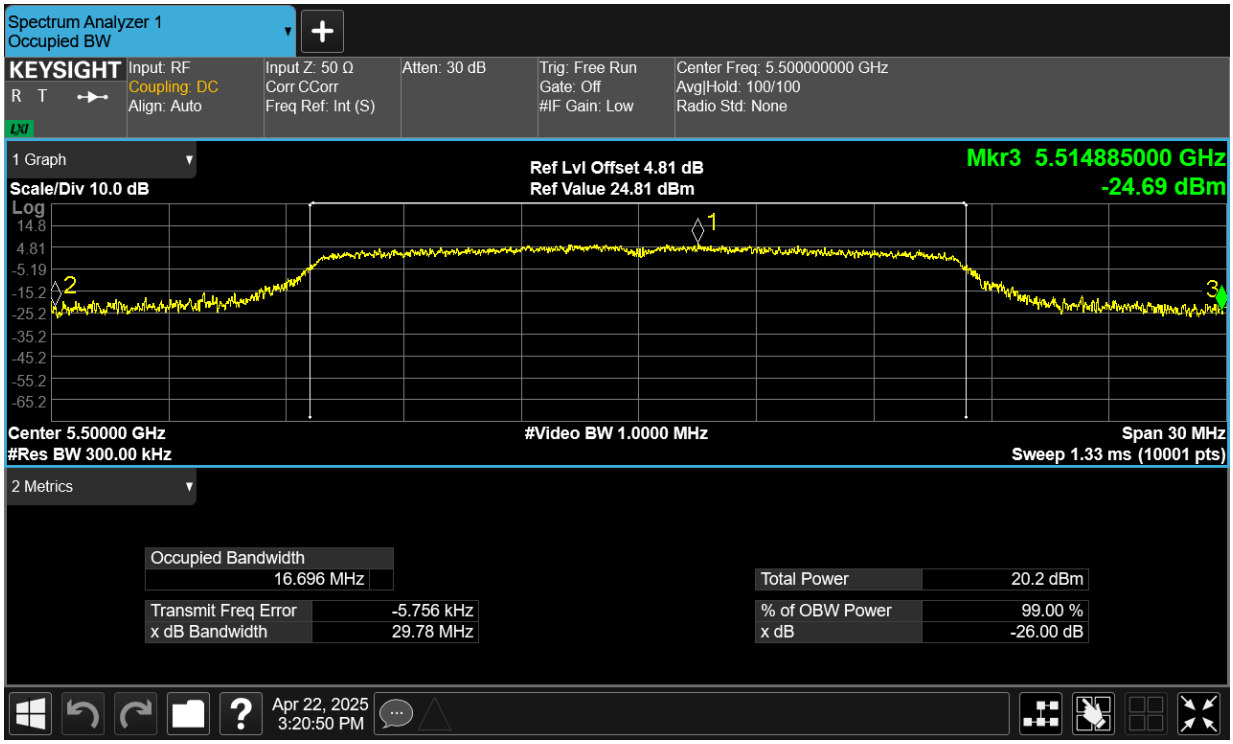
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant3	13.85	0	13.85	24	Pass
NVNT	a	5600	Ant3	11.89	0	11.89	24	Pass
NVNT	a	5700	Ant3	11.81	0	11.81	24	Pass
NVNT	ac20	5500	Ant3	12.69	0	12.69	24	Pass
NVNT	ac20	5600	Ant3	11.12	0	11.12	24	Pass
NVNT	ac20	5700	Ant3	10.82	0	10.82	24	Pass
NVNT	ac40	5510	Ant3	12.21	0	12.21	24	Pass
NVNT	ac40	5590	Ant3	11.17	0	11.17	24	Pass
NVNT	ac40	5670	Ant3	10.77	0	10.77	24	Pass
NVNT	ac80	5530	Ant3	11.61	0	11.61	24	Pass
NVNT	ac80	5610	Ant3	10.66	0	10.66	24	Pass
NVNT	n20	5500	Ant3	12.5	0	12.5	24	Pass
NVNT	n20	5600	Ant3	11.41	0	11.41	24	Pass
NVNT	n20	5700	Ant3	11.14	0	11.14	24	Pass
NVNT	n40	5510	Ant3	11.75	0	11.75	24	Pass
NVNT	n40	5590	Ant3	11.12	0	11.12	24	Pass
NVNT	n40	5670	Ant3	11.09	0	11.09	24	Pass

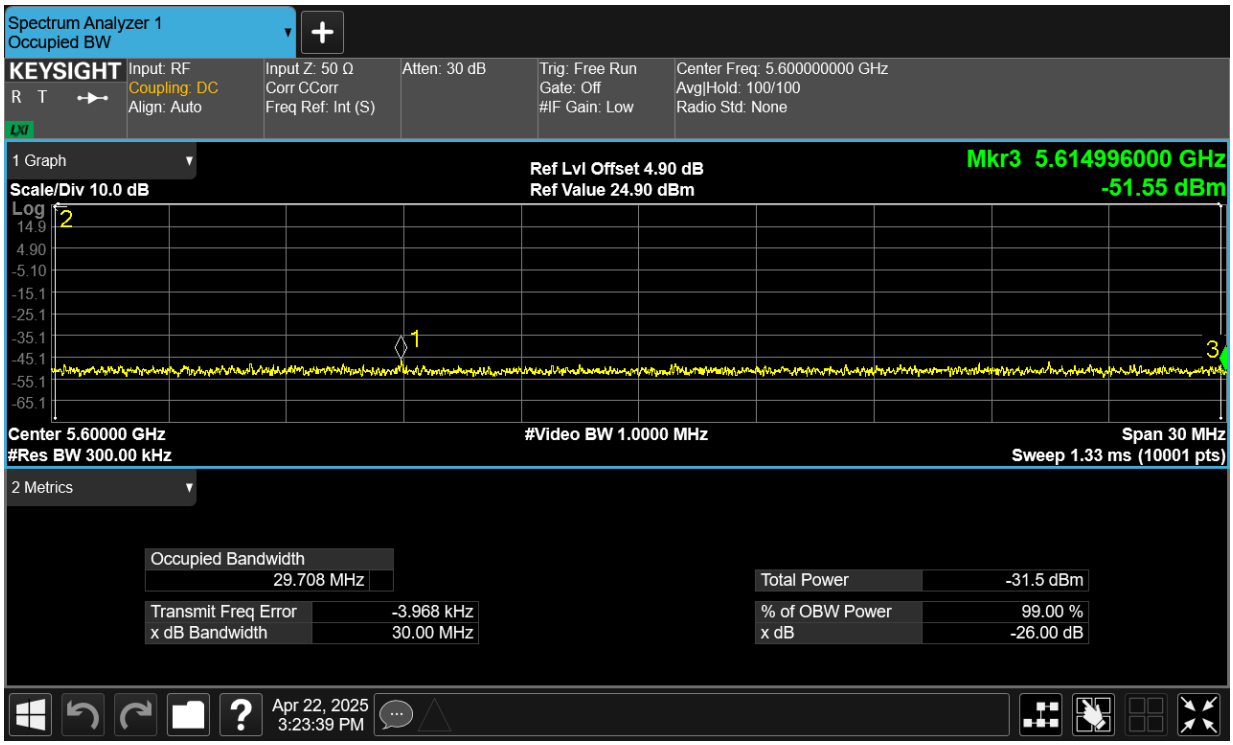
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5500	Ant3	29.781
NVNT	a	5600	Ant3	30
NVNT	a	5700	Ant3	23.858
NVNT	ac20	5500	Ant3	21.033
NVNT	ac20	5600	Ant3	20.459
NVNT	ac20	5700	Ant3	23.122
NVNT	ac40	5510	Ant3	39.769
NVNT	ac40	5590	Ant3	39.606
NVNT	ac40	5670	Ant3	40.113
NVNT	ac80	5530	Ant3	79.548
NVNT	ac80	5610	Ant3	79.64
NVNT	n20	5500	Ant3	20.48
NVNT	n20	5600	Ant3	22.691
NVNT	n20	5700	Ant3	20.437
NVNT	n40	5510	Ant3	39.641
NVNT	n40	5590	Ant3	40.045
NVNT	n40	5670	Ant3	39.663

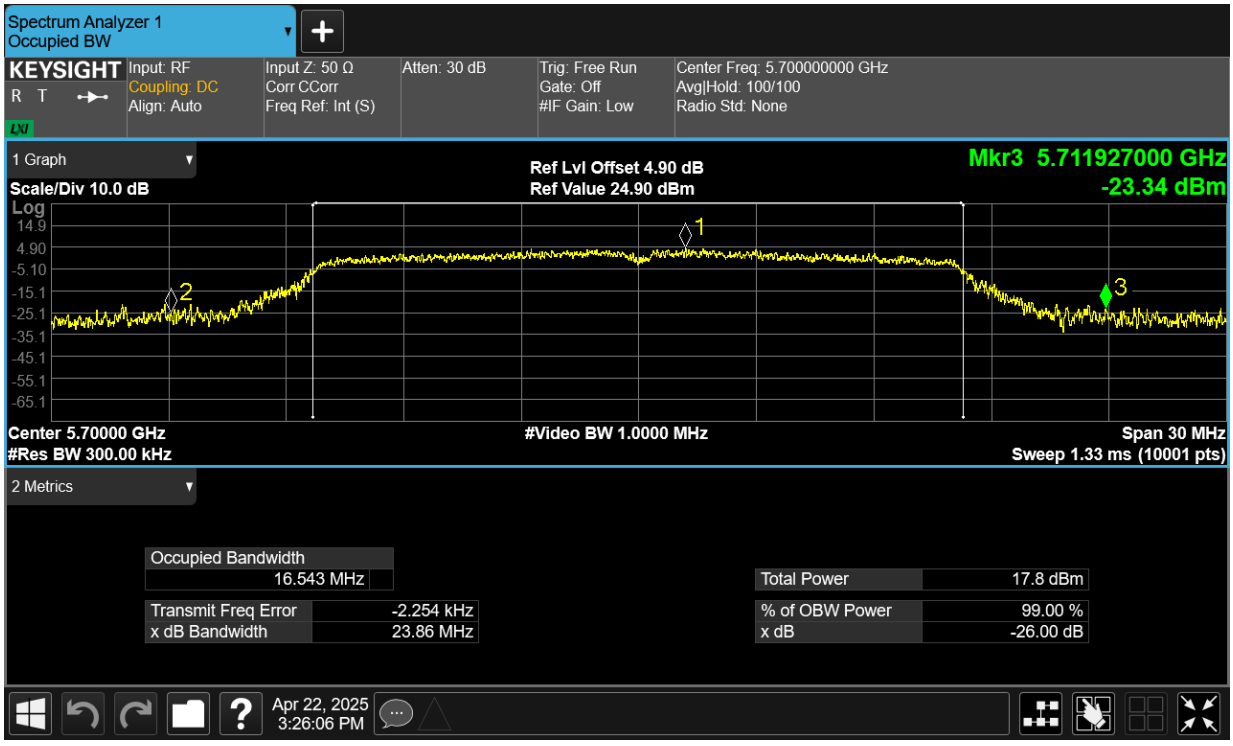
Test Graphs
-26dB Bandwidth NVNT a 5500MHz Ant3



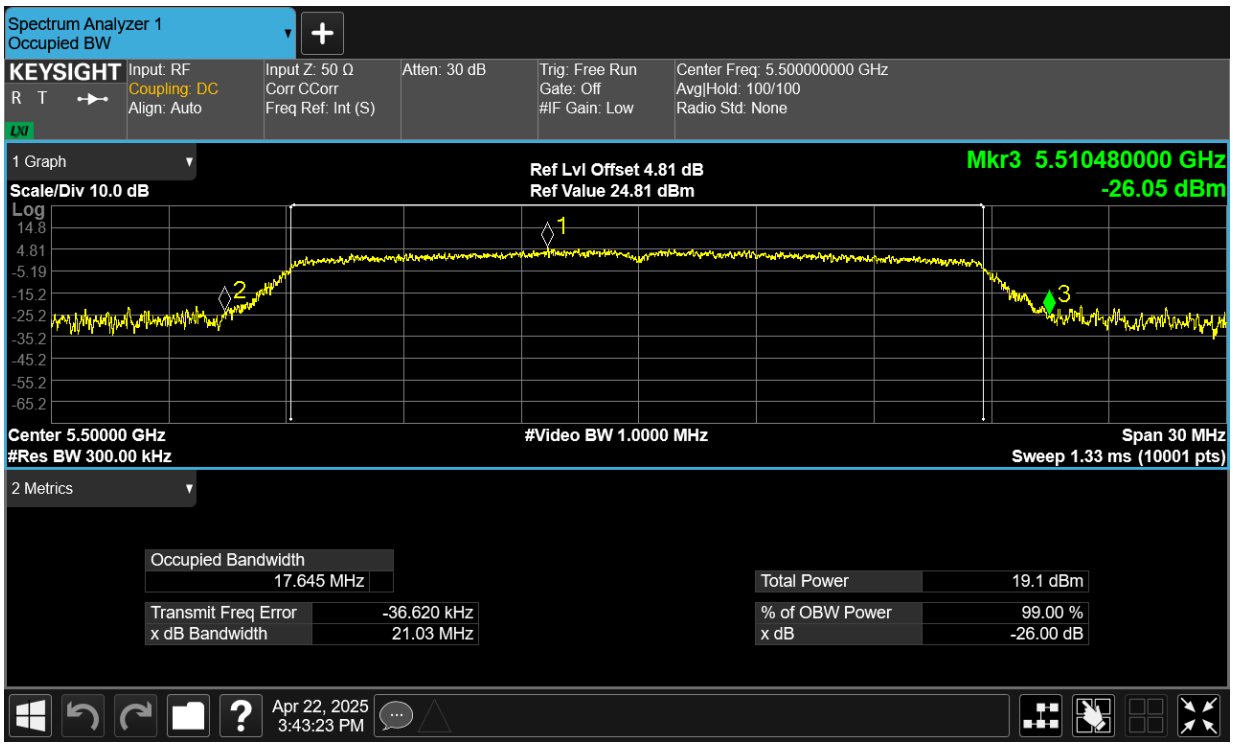
-26dB Bandwidth NVNT a 5600MHz Ant3



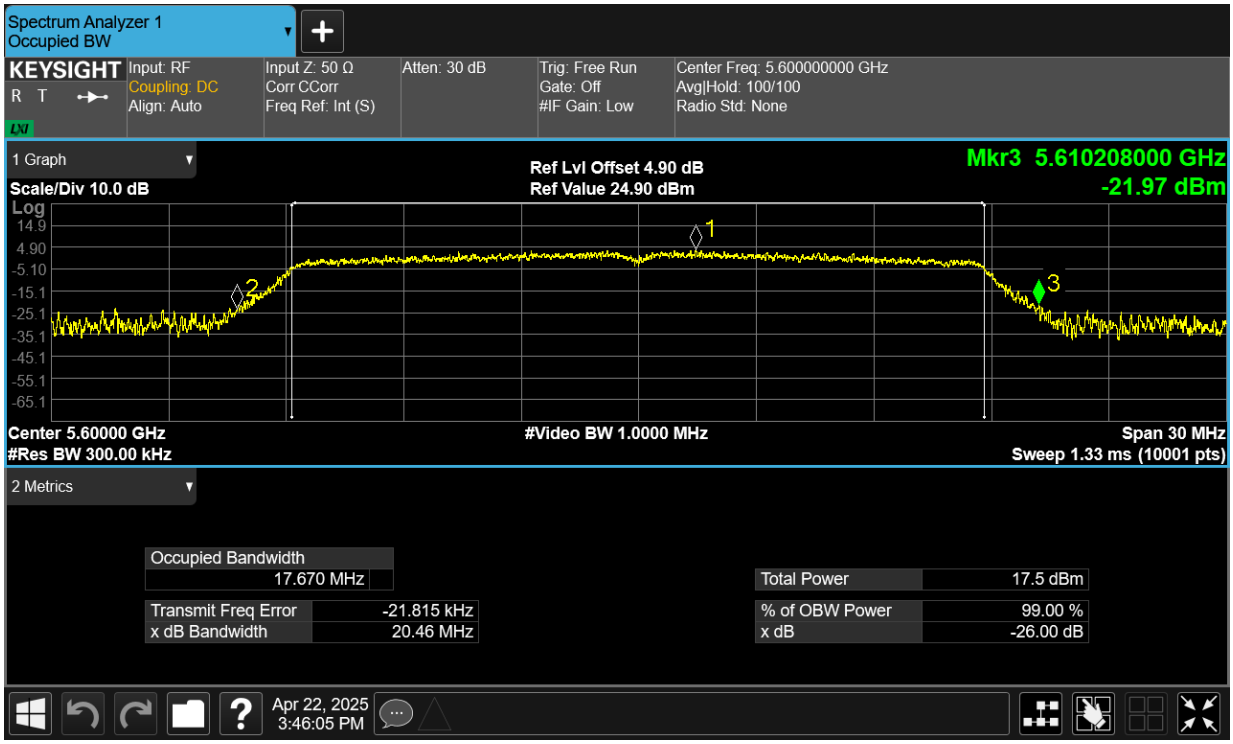
-26dB Bandwidth NVNT a 5700MHz Ant3



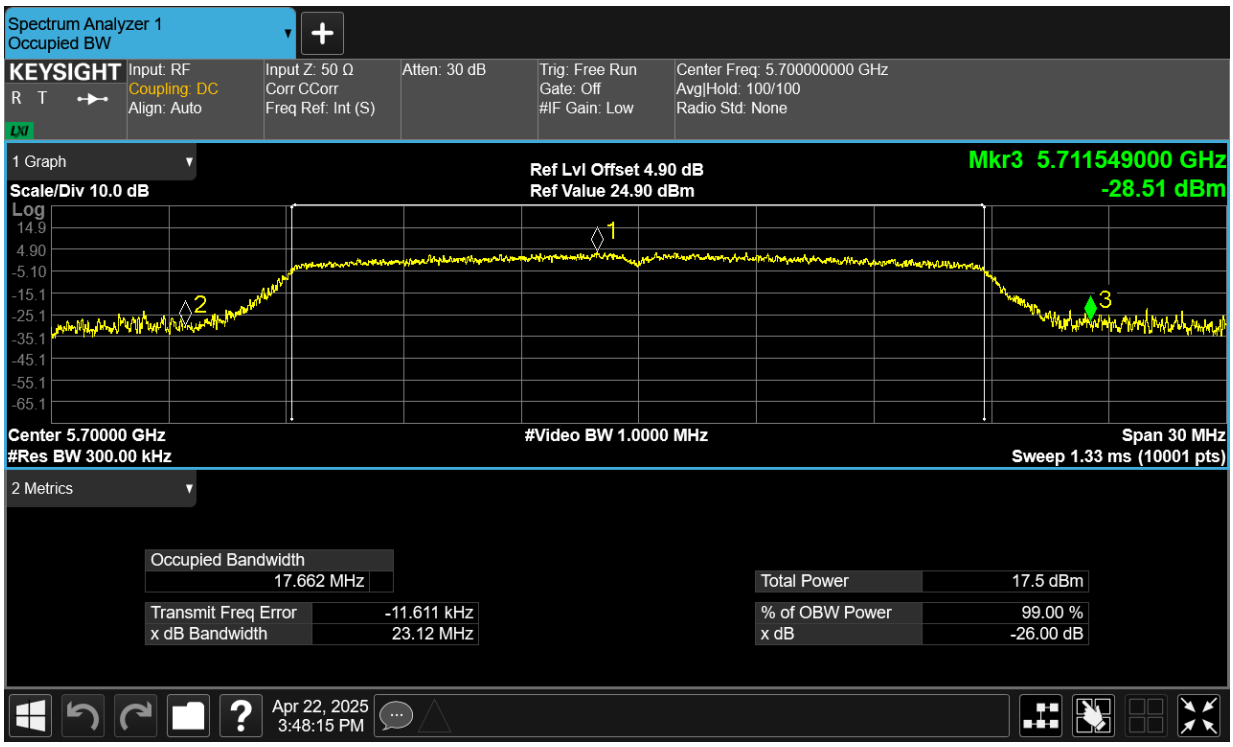
-26dB Bandwidth NVNT ac20 5500MHz Ant3



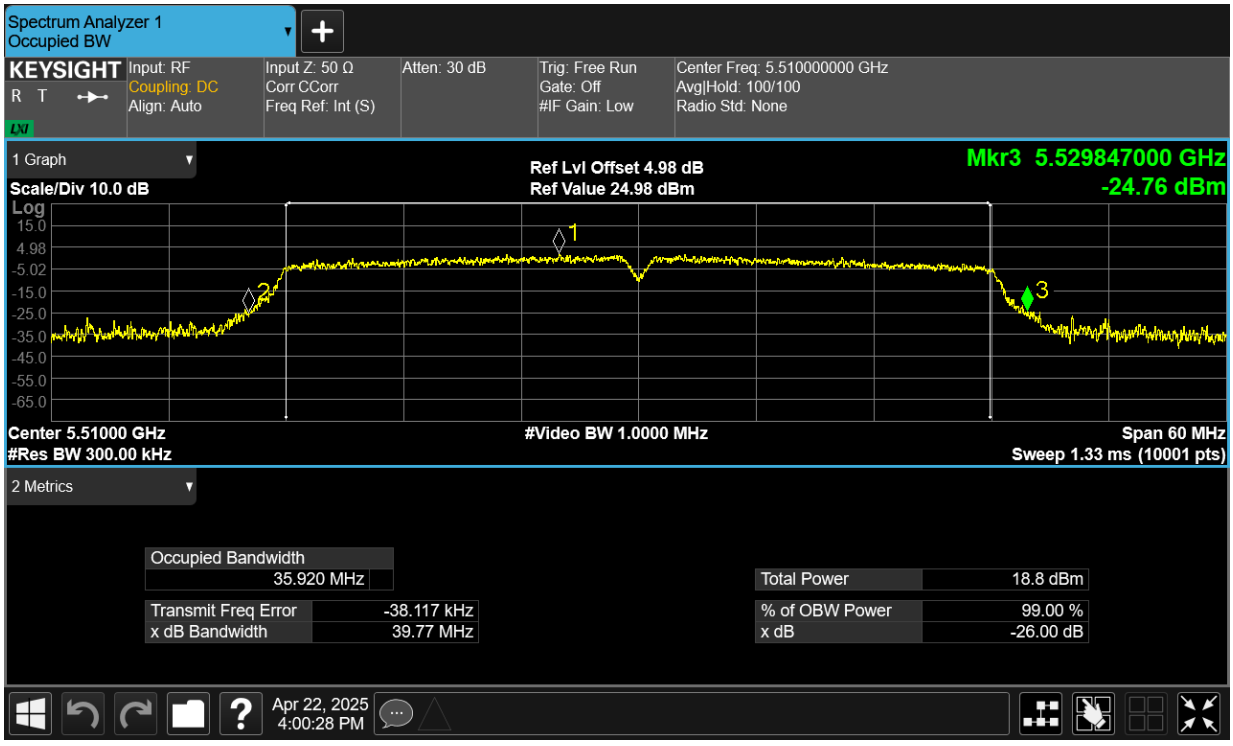
-26dB Bandwidth NVNT ac20 5600MHz Ant3



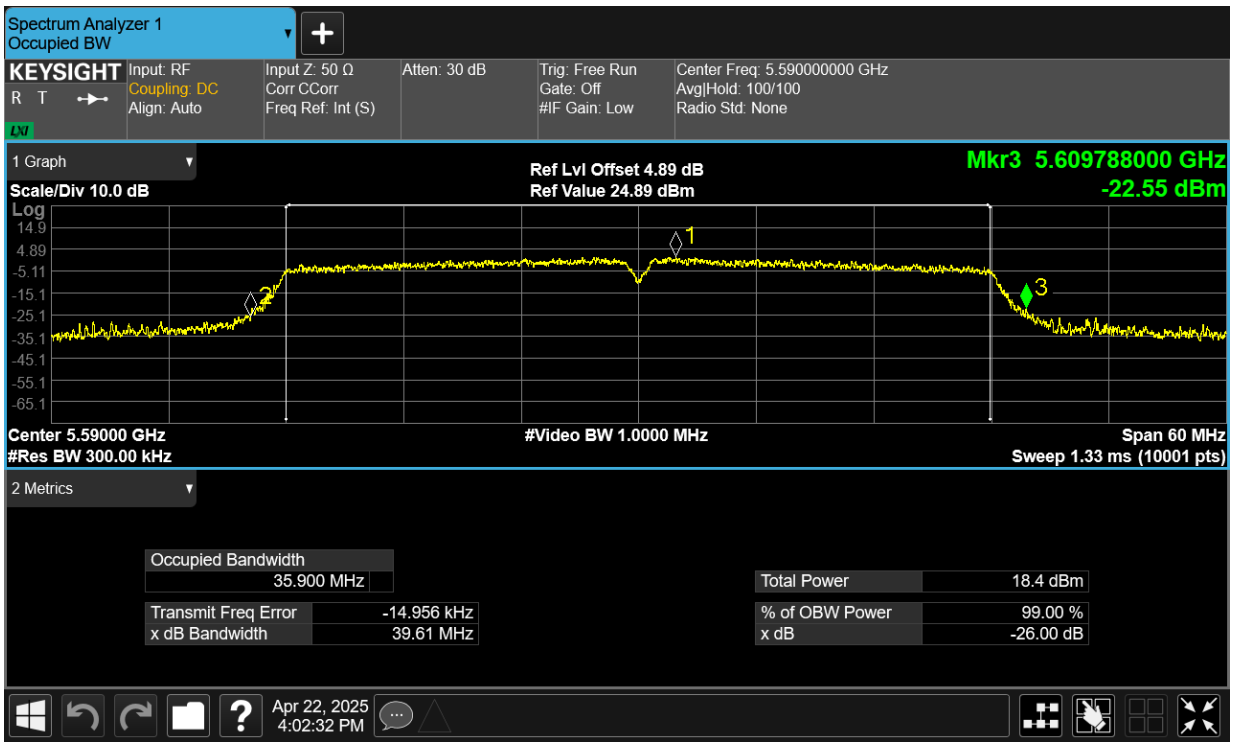
-26dB Bandwidth NVNT ac20 5700MHz Ant3



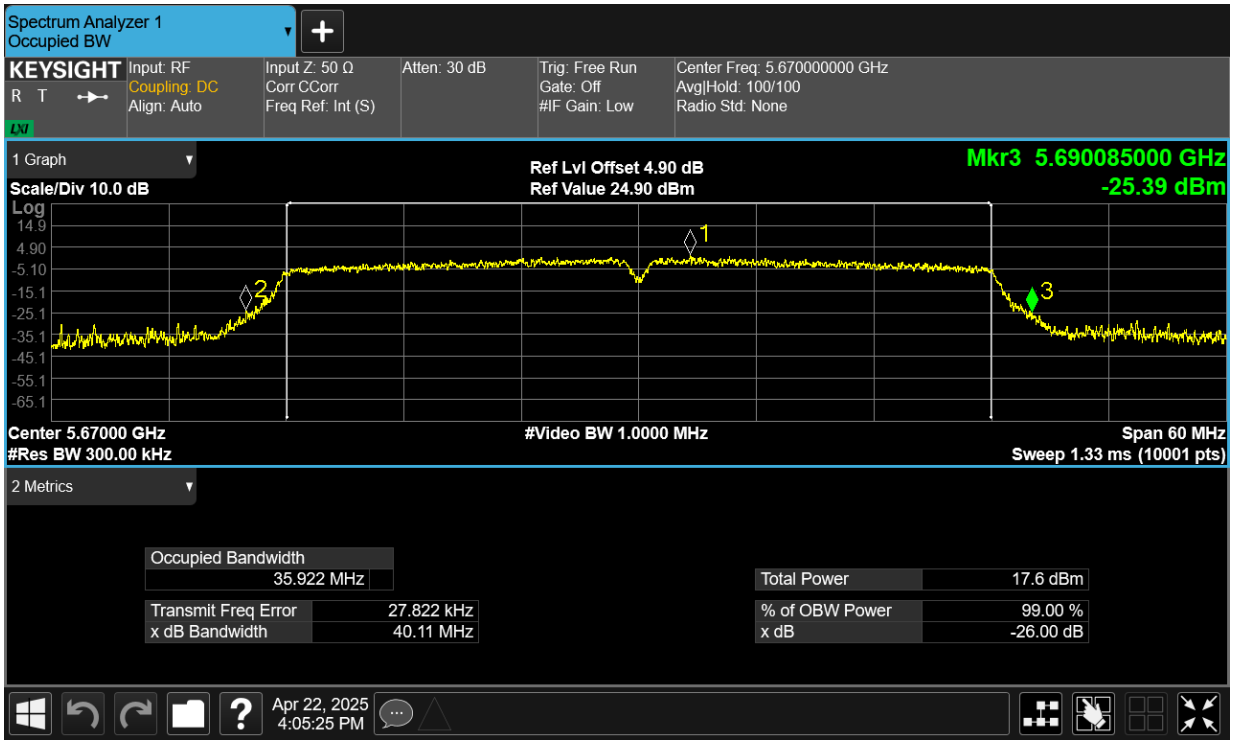
-26dB Bandwidth NVNT ac40 5510MHz Ant3



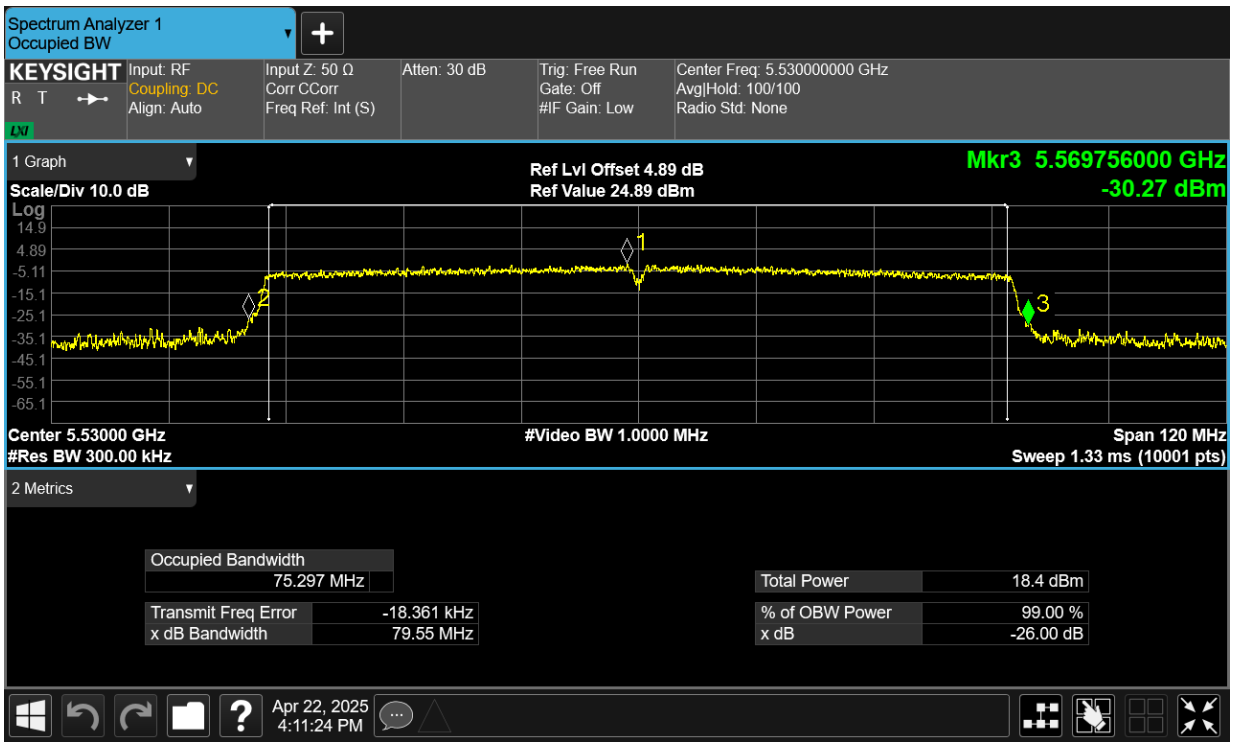
-26dB Bandwidth NVNT ac40 5590MHz Ant3



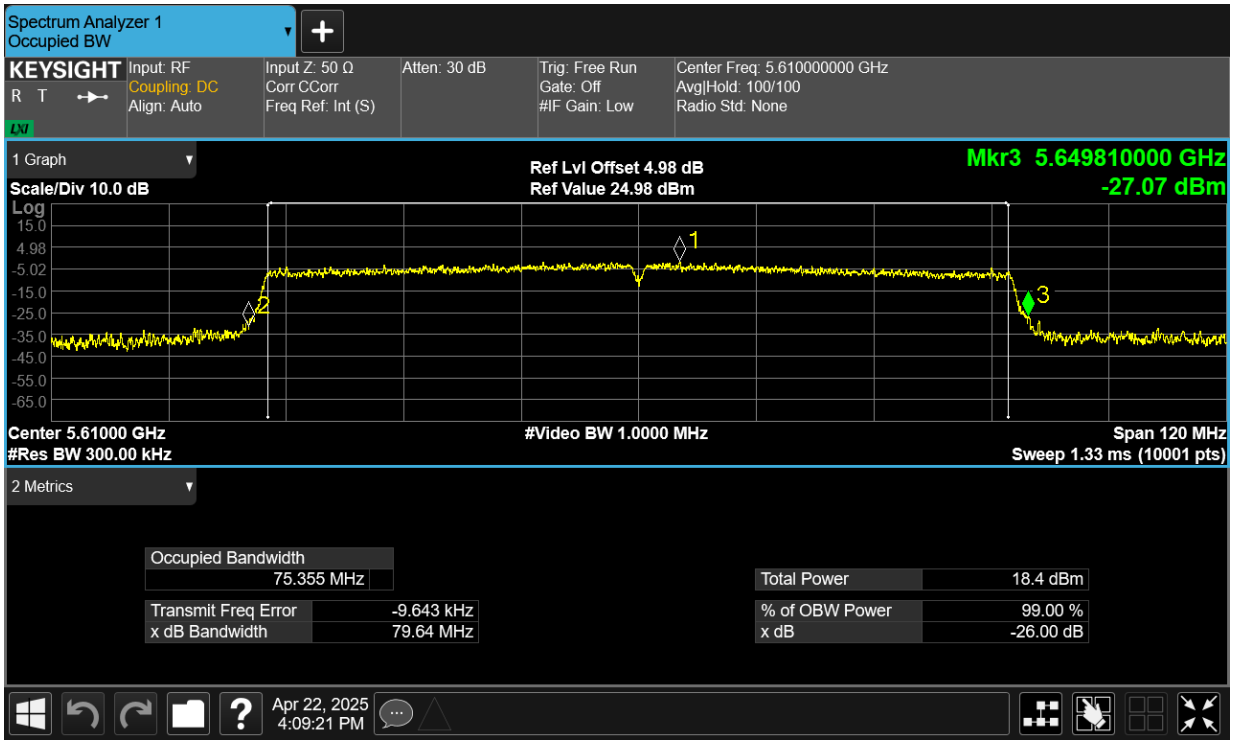
-26dB Bandwidth NVNT ac40 5670MHz Ant3



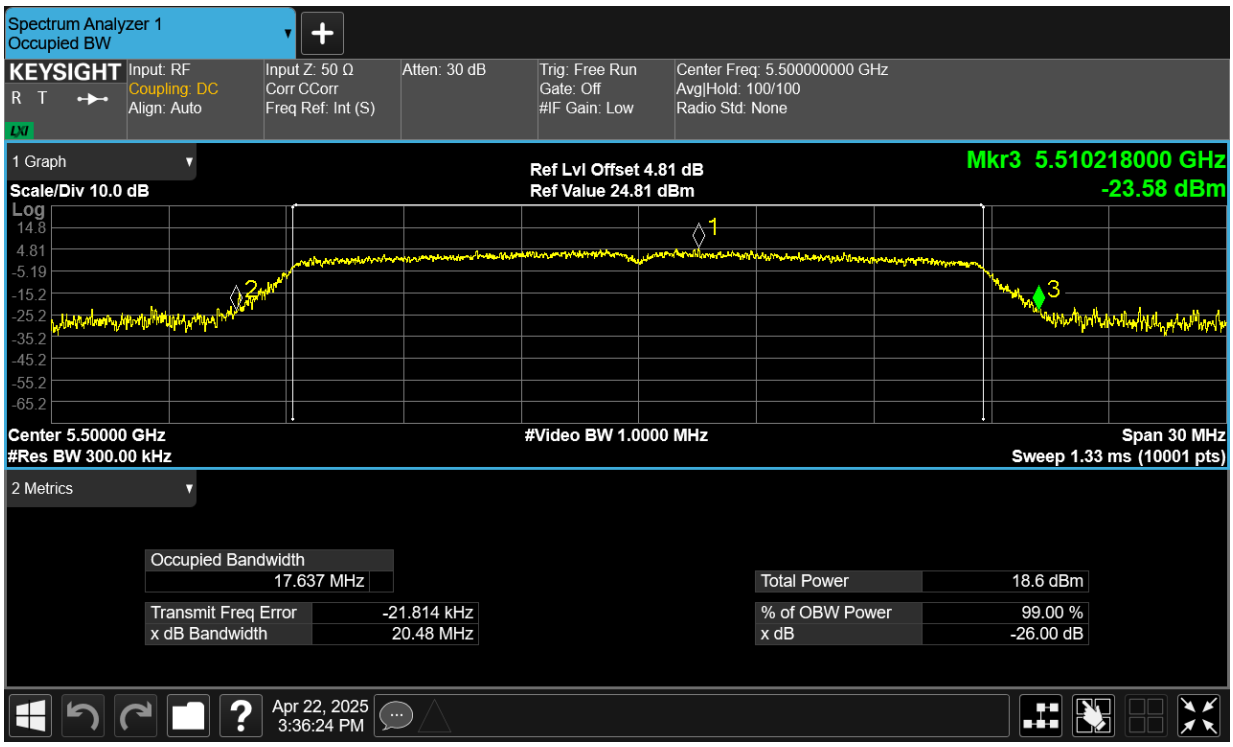
-26dB Bandwidth NVNT ac80 5530MHz Ant3



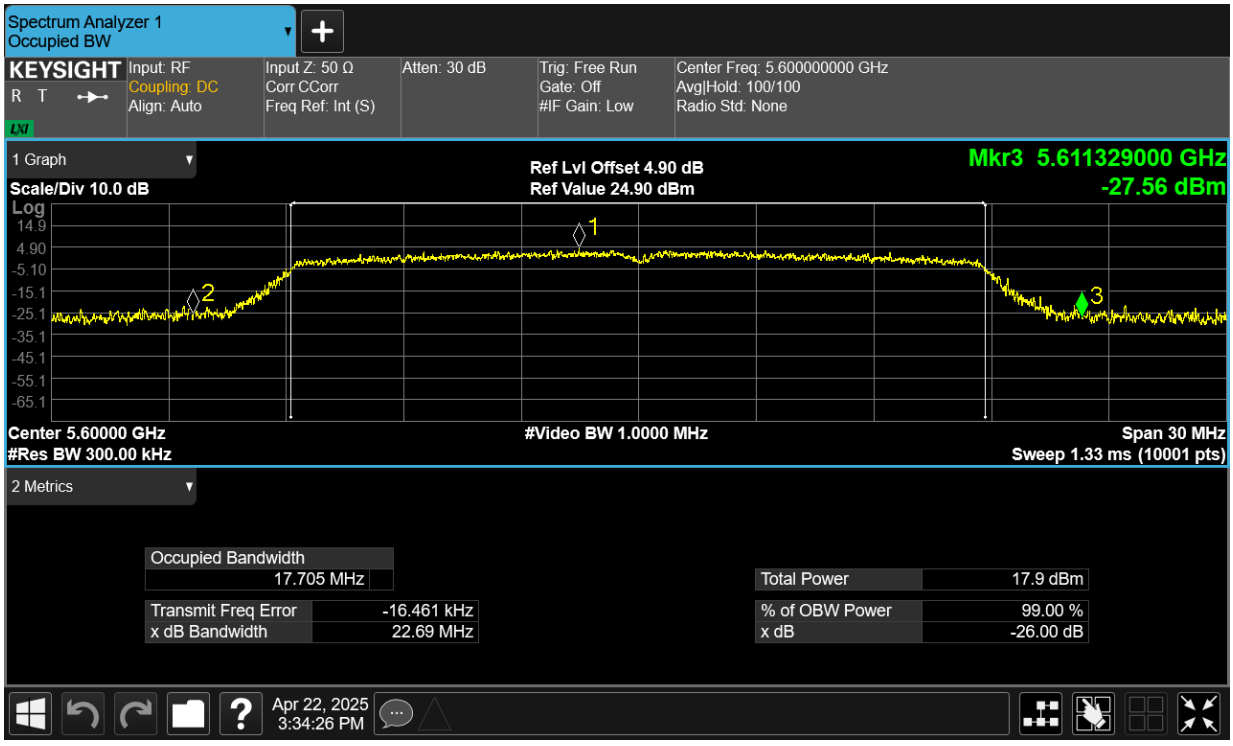
-26dB Bandwidth NVNT ac80 5610MHz Ant3



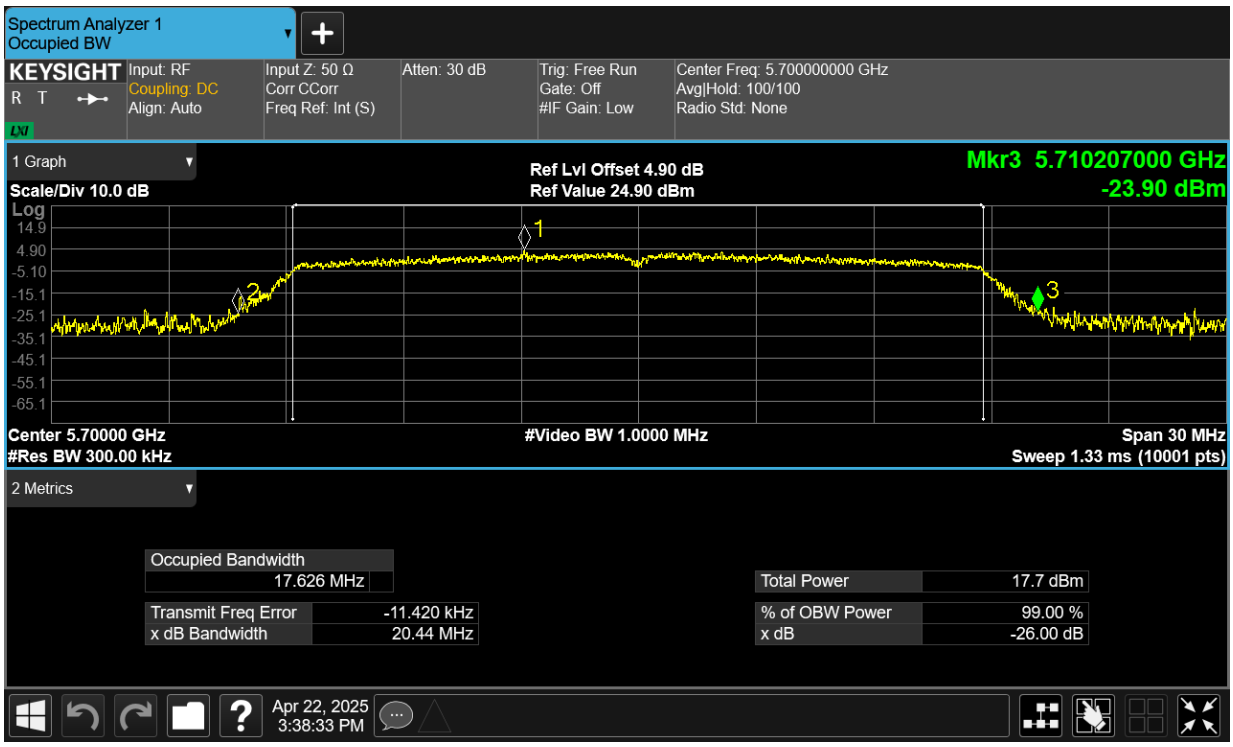
-26dB Bandwidth NVNT n20 5500MHz Ant3



-26dB Bandwidth NVNT n20 5600MHz Ant3



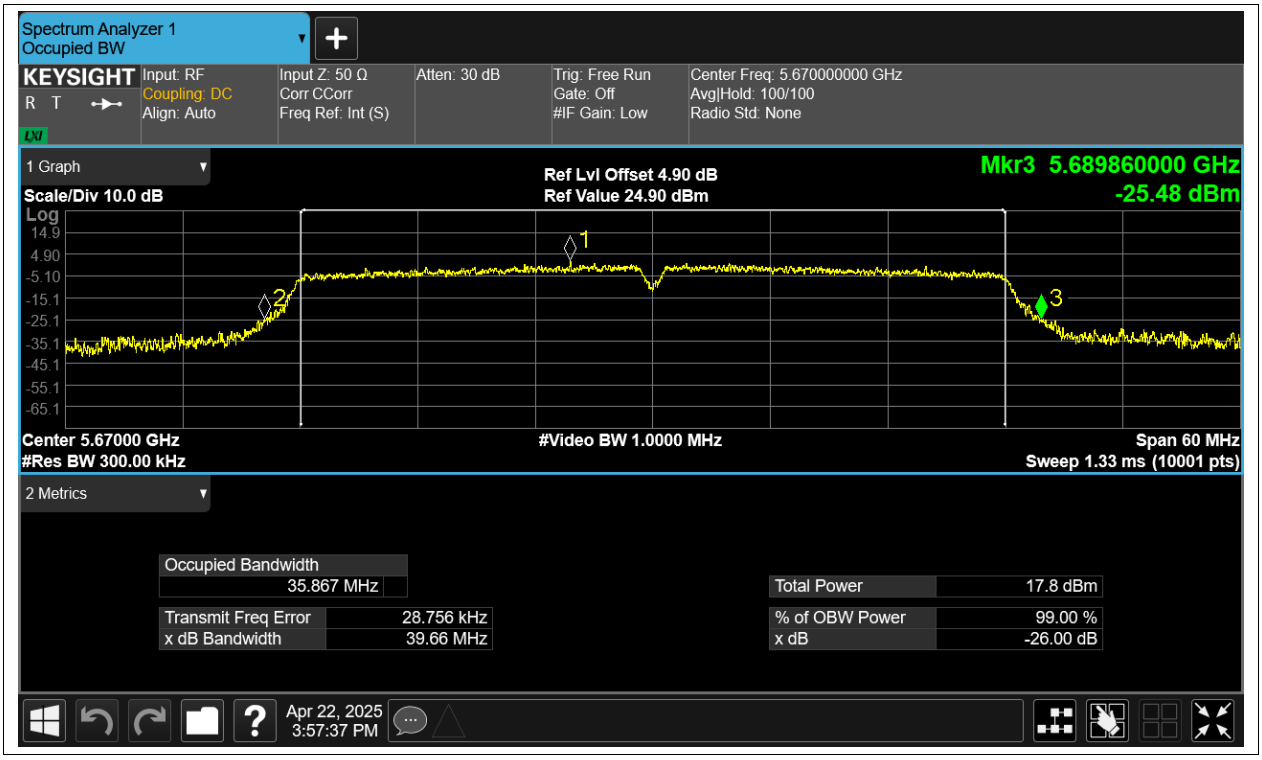
-26dB Bandwidth NVNT n20 5700MHz Ant3



-26dB Bandwidth NVNT n40 5510MHz Ant3

-26dB Bandwidth NVNT n40 5590MHz Ant3

-26dB Bandwidth NVNT n40 5670MHz Ant3

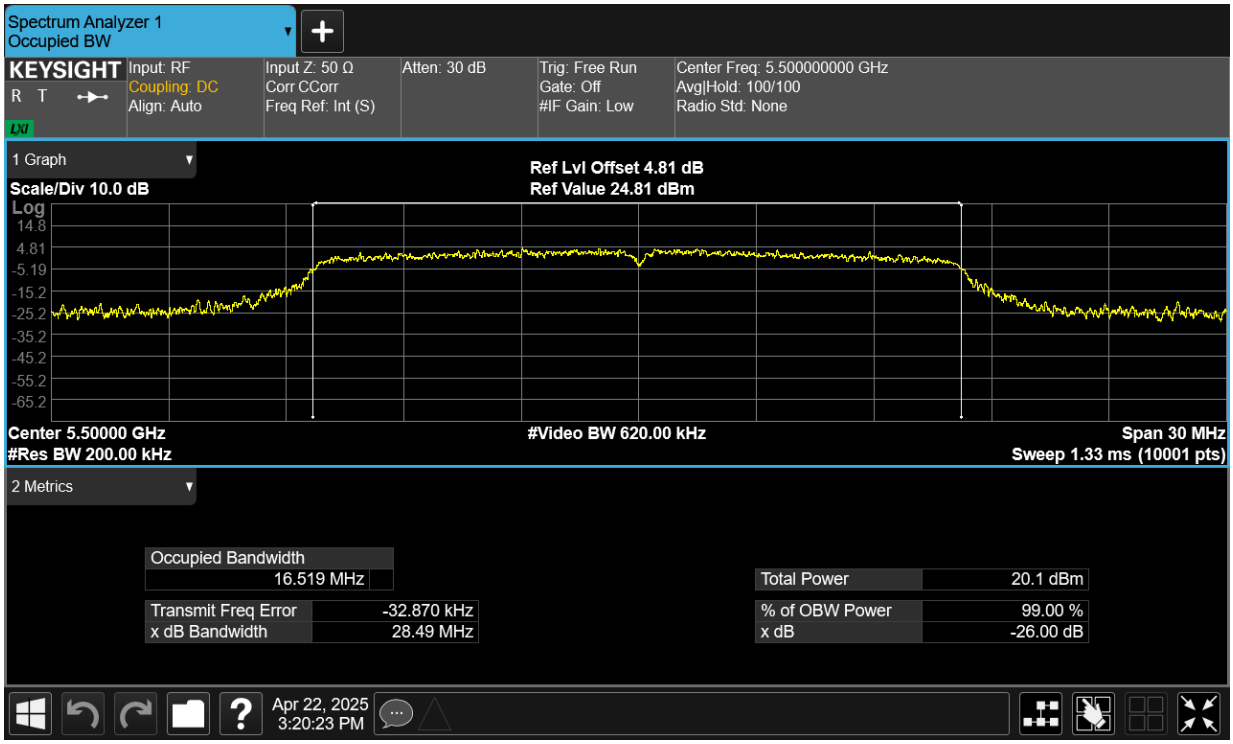

Spectrum Analyzer 1
Occupied BW
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
Atten: 30 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 5.670000000 GHz
Avg|Hold: 100/100
Radio Std: None
1 Graph
Ref Lvl Offset 4.90 dB
Ref Value 24.90 dBm
Mkr3 5.689860000 GHz
-25.48 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
35.867 MHz
Transmit Freq Error 28.756 kHz
x dB Bandwidth 39.66 MHz
Total Power 17.8 dBm
% of OBW Power 99.00 %
x dB -26.00 dB
Apr 22, 2025
3:57:37 PM

Occupied Channel Bandwidth

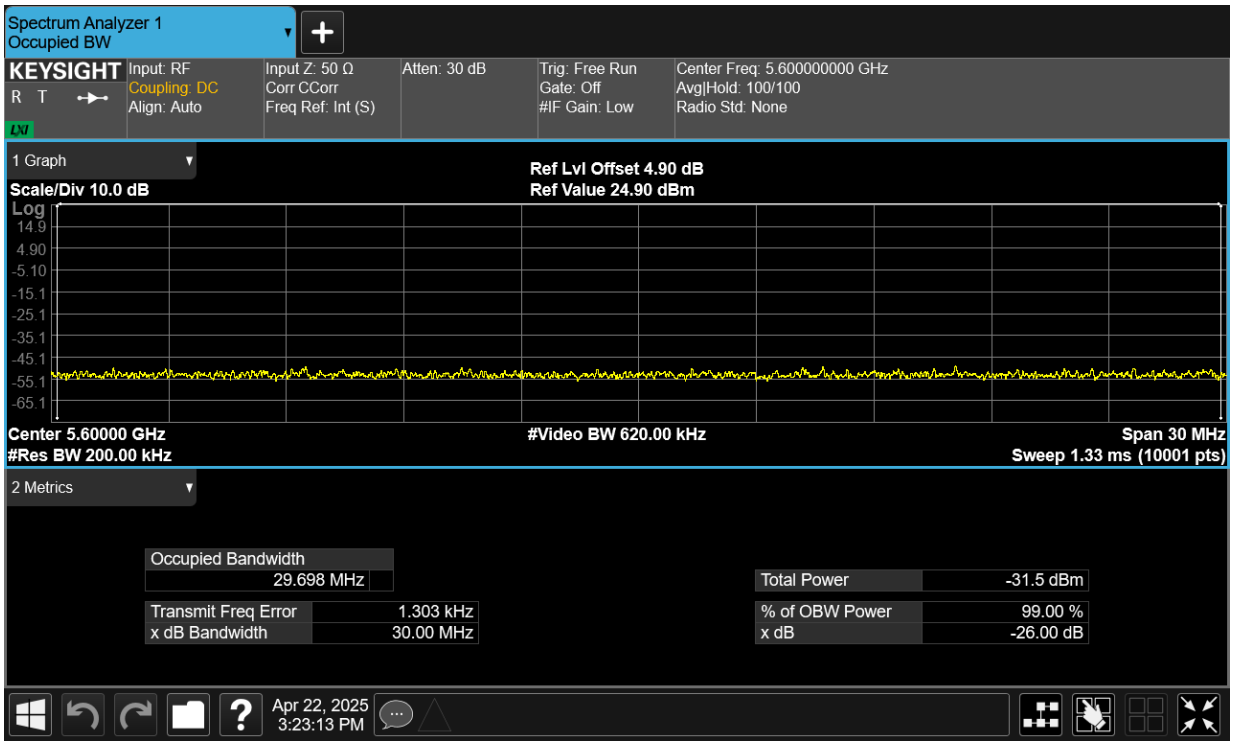
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant3	16.519
NVNT	a	5600	Ant3	29.698
NVNT	a	5700	Ant3	16.466
NVNT	ac20	5500	Ant3	17.579
NVNT	ac20	5600	Ant3	17.604
NVNT	ac20	5700	Ant3	17.594
NVNT	ac40	5510	Ant3	35.992
NVNT	ac40	5590	Ant3	35.973
NVNT	ac40	5670	Ant3	35.935
NVNT	ac80	5530	Ant3	75.345
NVNT	ac80	5610	Ant3	75.319
NVNT	n20	5500	Ant3	17.591
NVNT	n20	5600	Ant3	17.621
NVNT	n20	5700	Ant3	17.591
NVNT	n40	5510	Ant3	35.959
NVNT	n40	5590	Ant3	35.959
NVNT	n40	5670	Ant3	36.027

Test Graphs

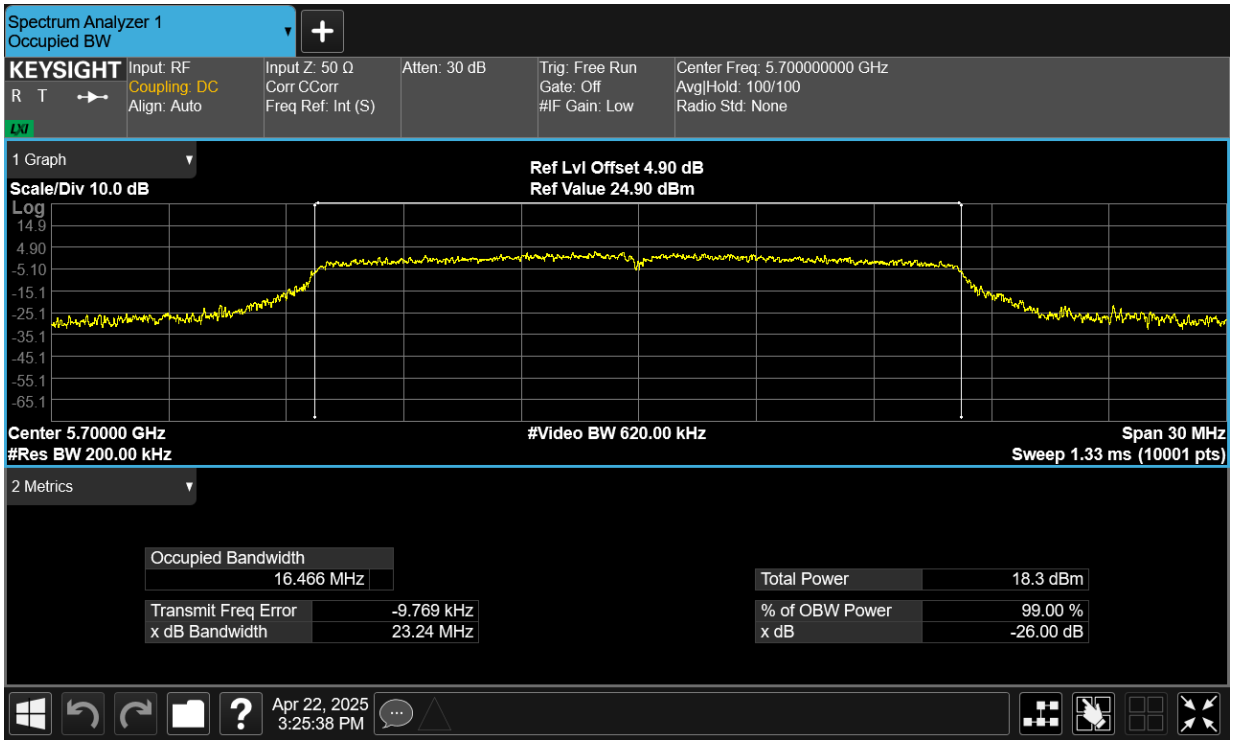
OBW NVNT a 5500MHz Ant3



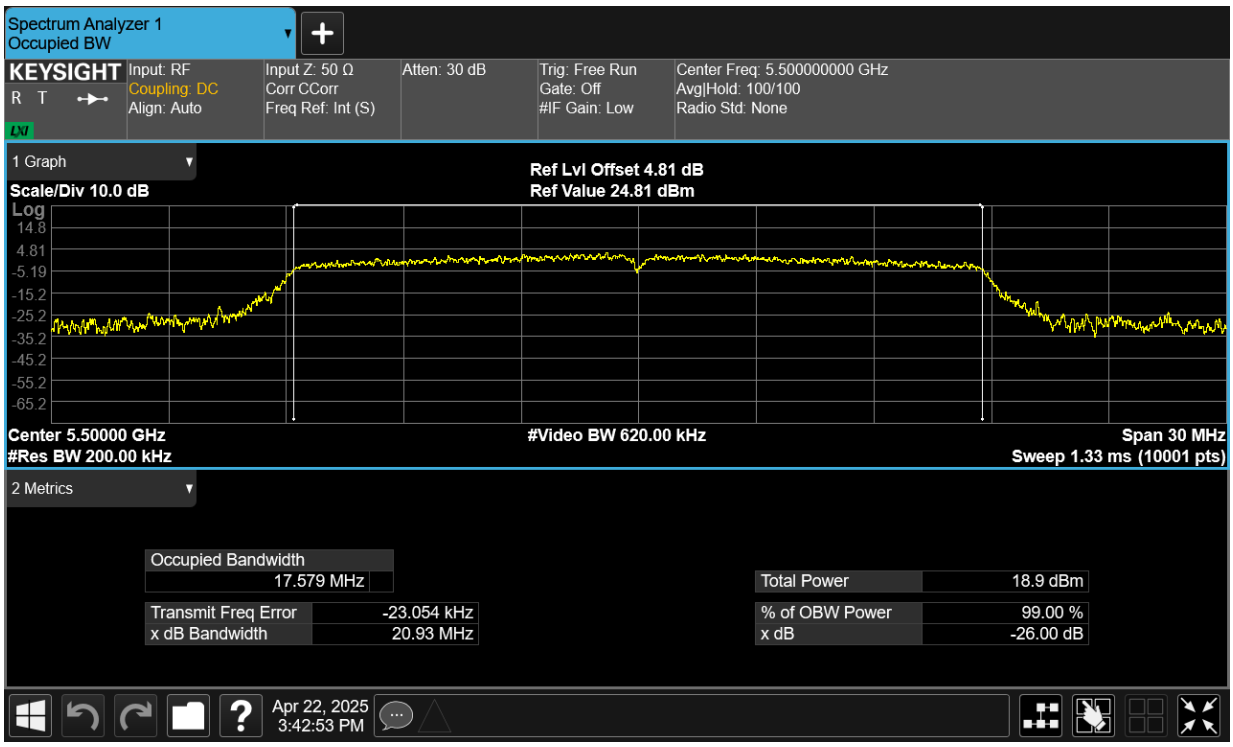
OBW NVNT a 5600MHz Ant3



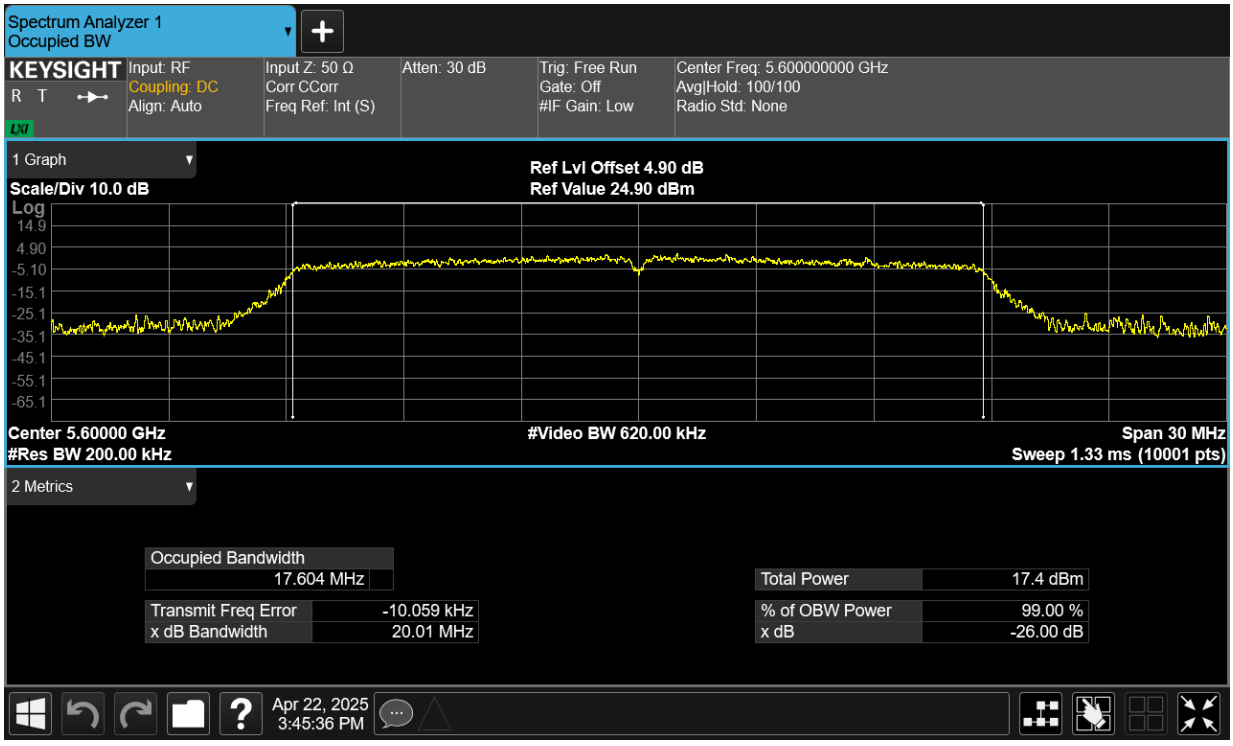
OBW NVNT a 5700MHz Ant3



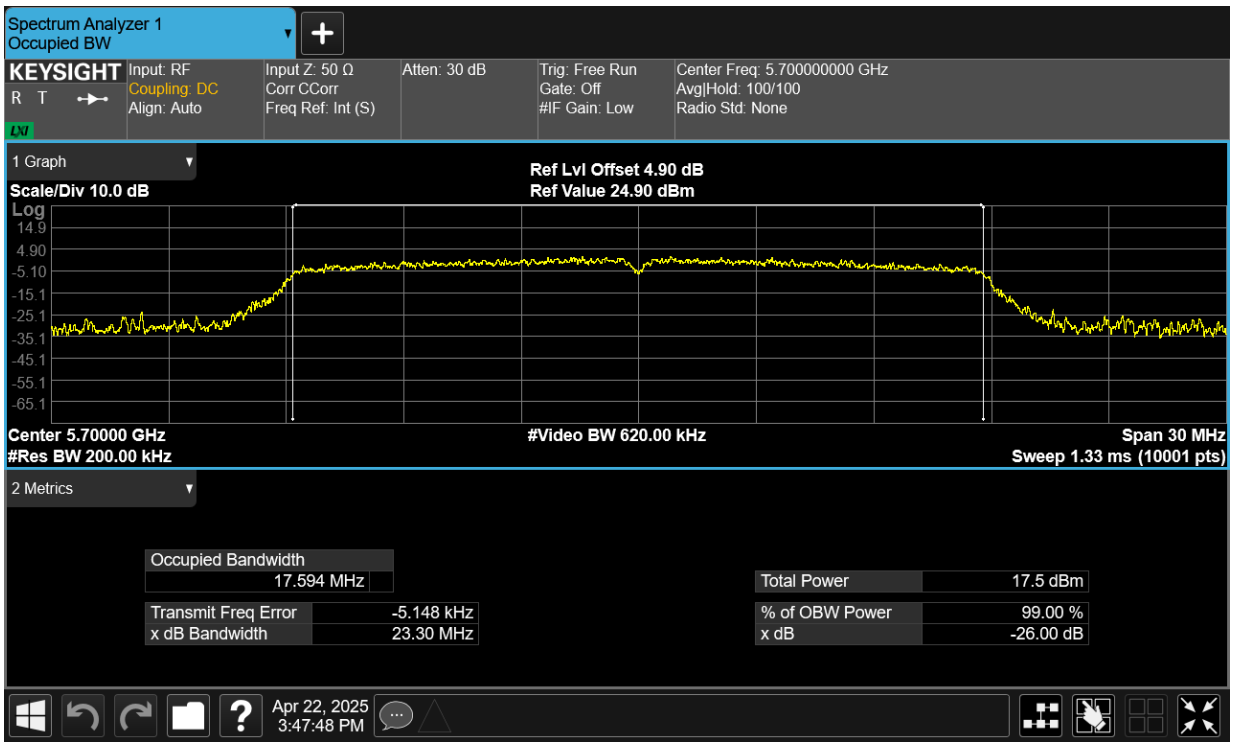
OBW NVNT ac20 5500MHz Ant3



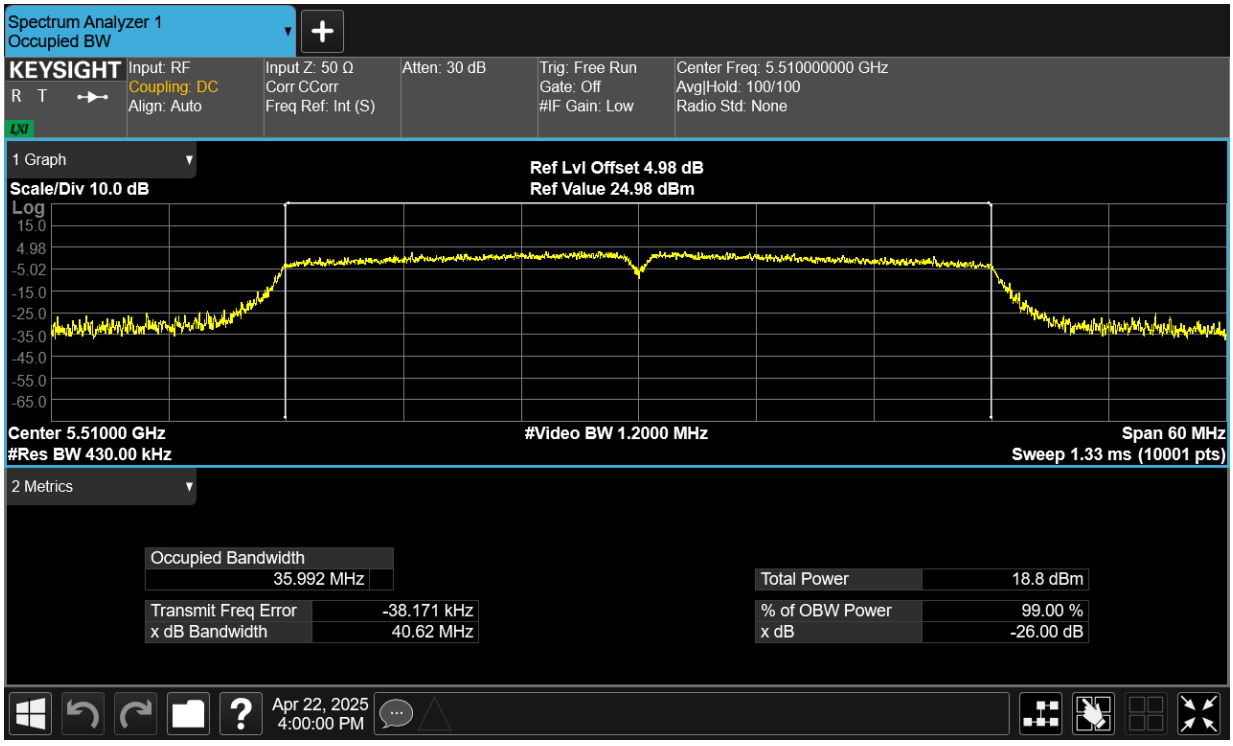
OBW NVNT ac20 5600MHz Ant3



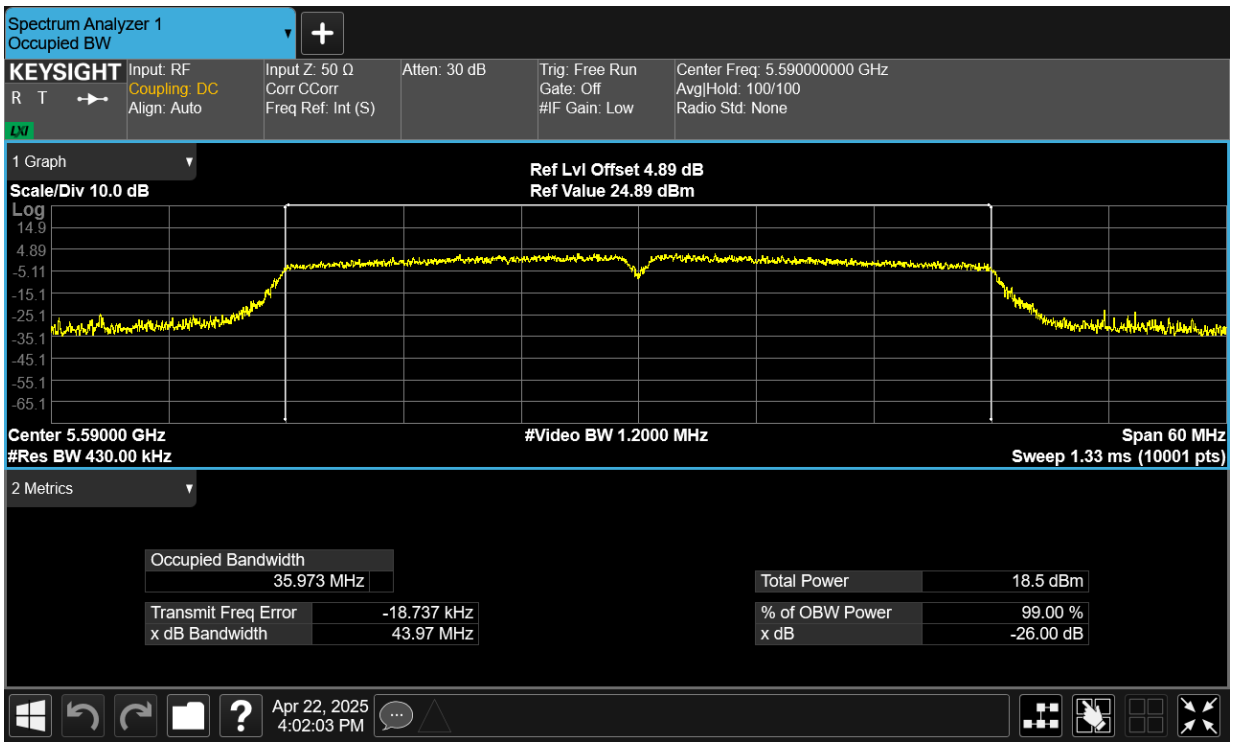
OBW NVNT ac20 5700MHz Ant3



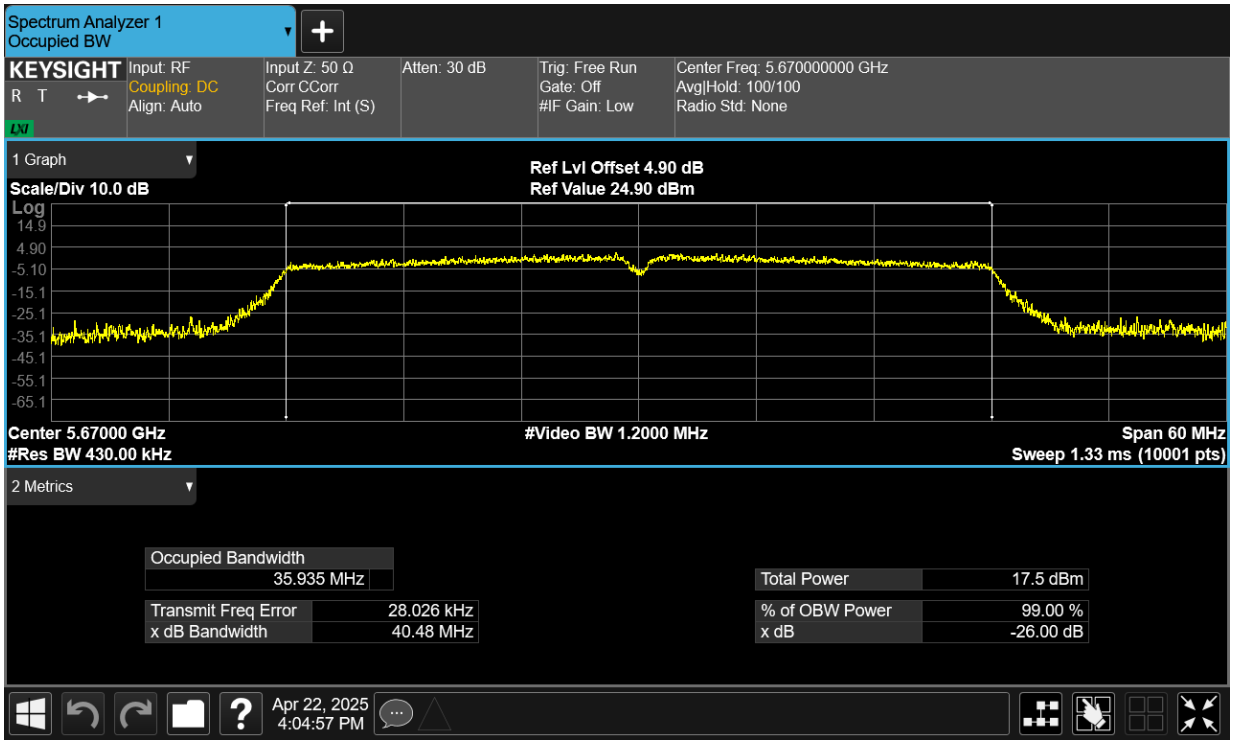
OBW NVNT ac40 5510MHz Ant3



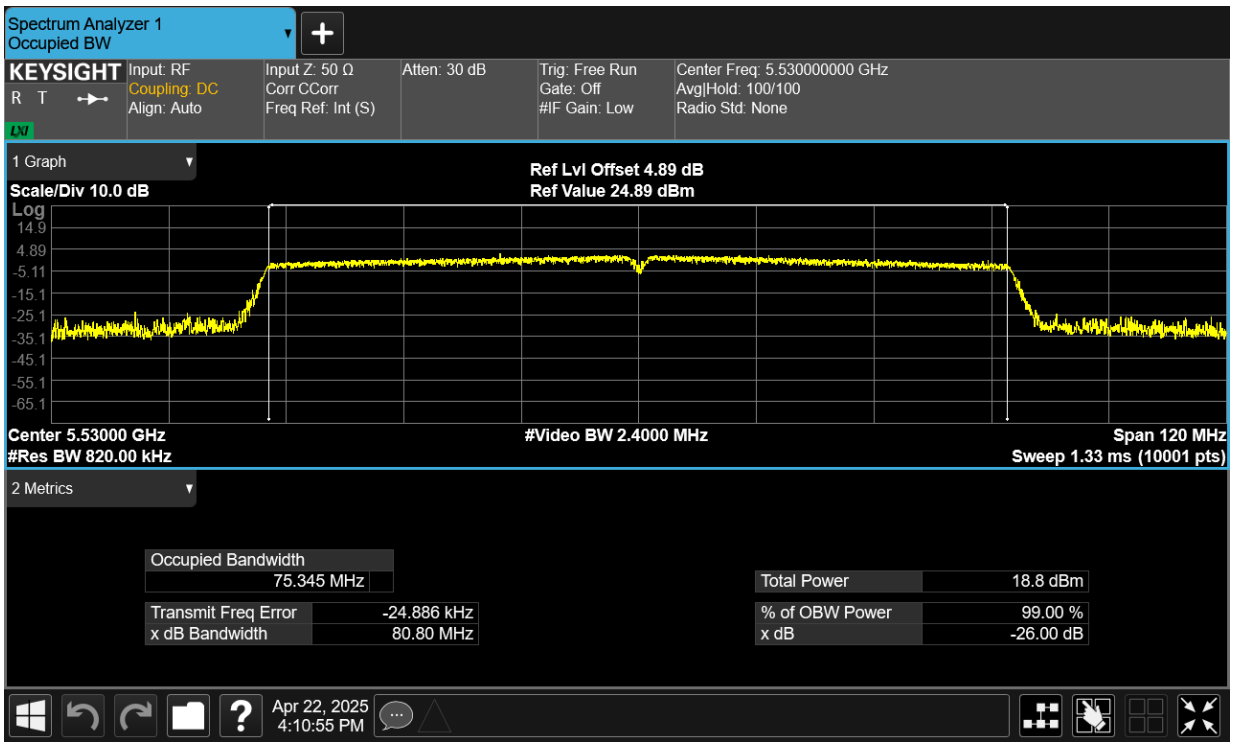
OBW NVNT ac40 5590MHz Ant3



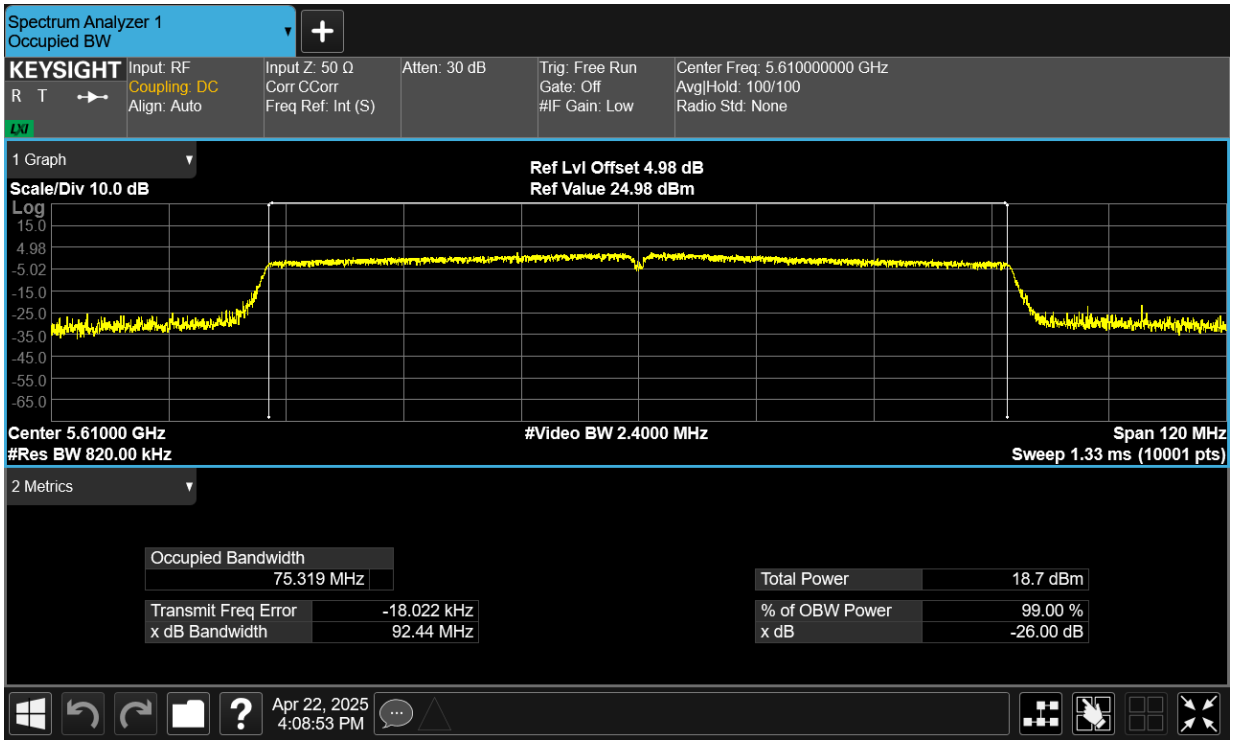
OBW NVNT ac40 5670MHz Ant3



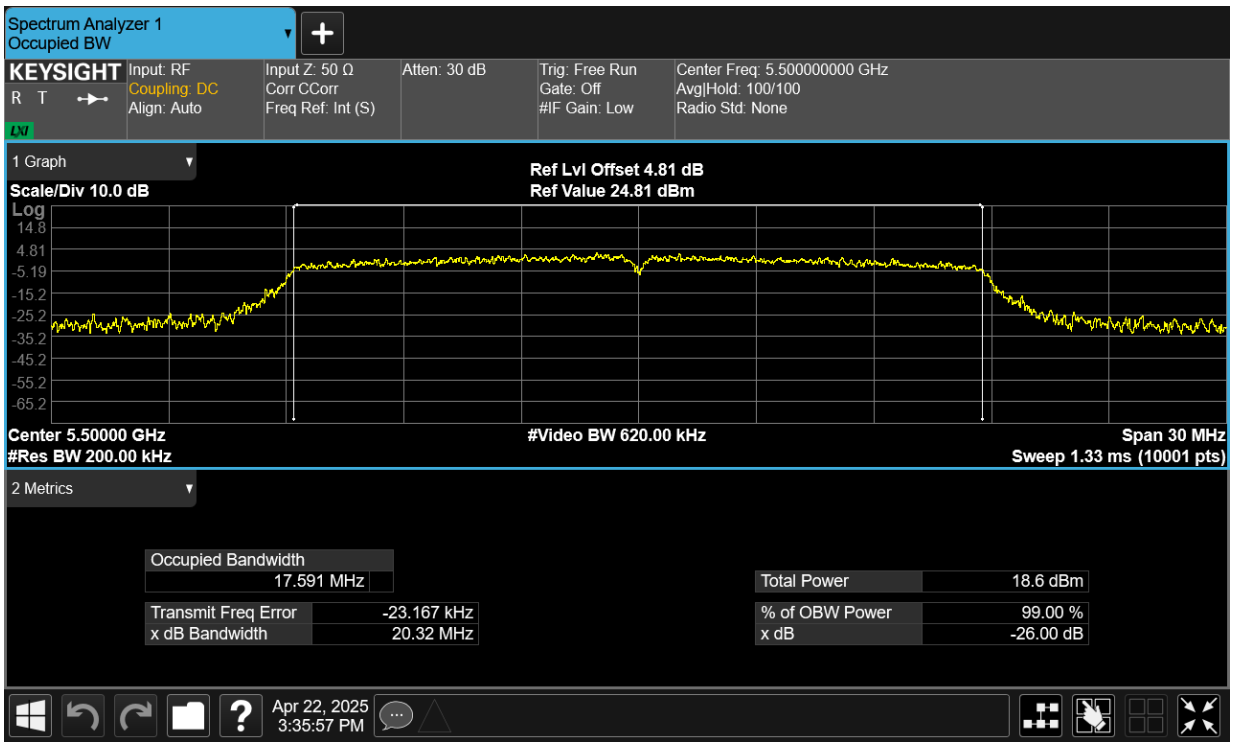
OBW NVNT ac80 5530MHz Ant3



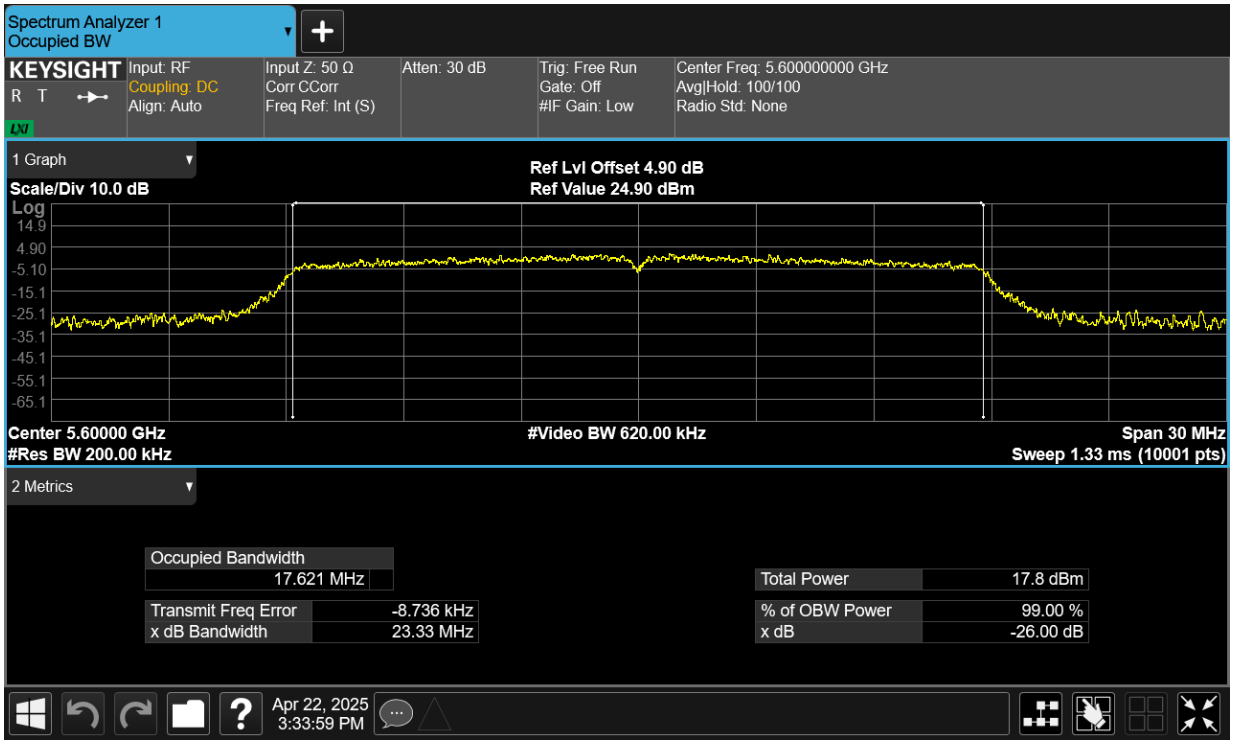
OBW NVNT ac80 5610MHz Ant3



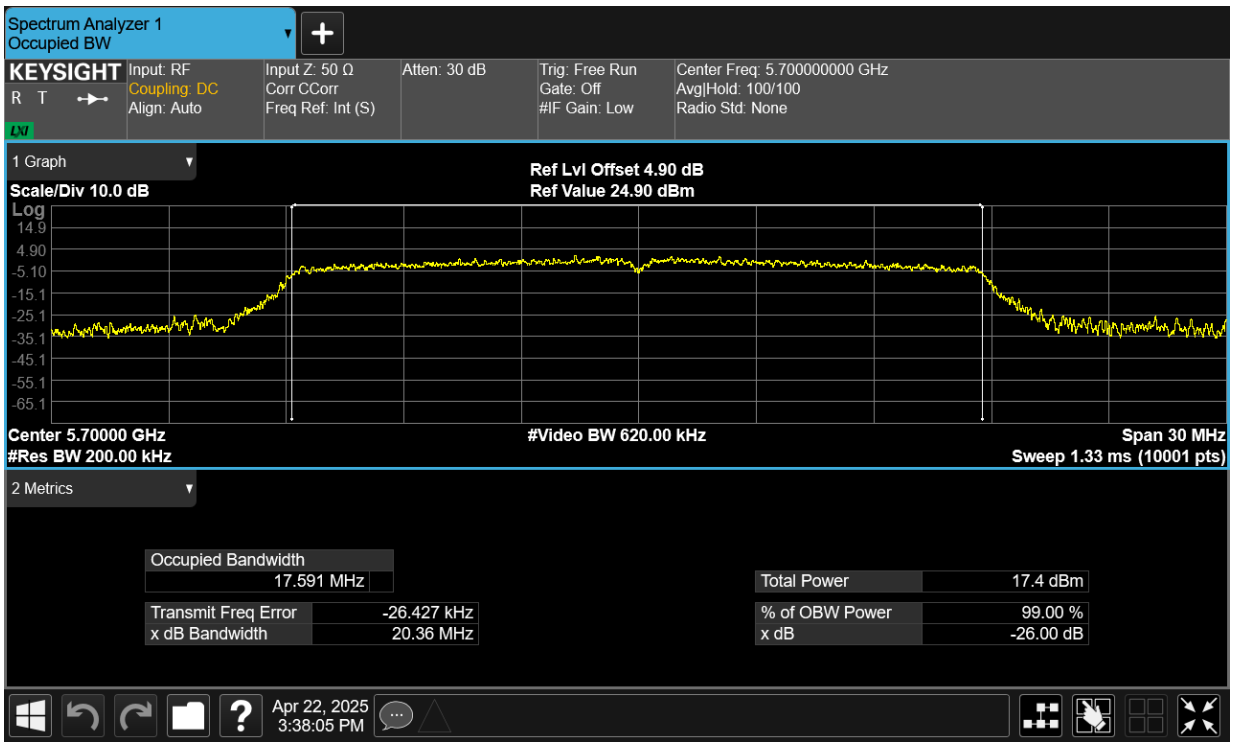
OBW NVNT n20 5500MHz Ant3



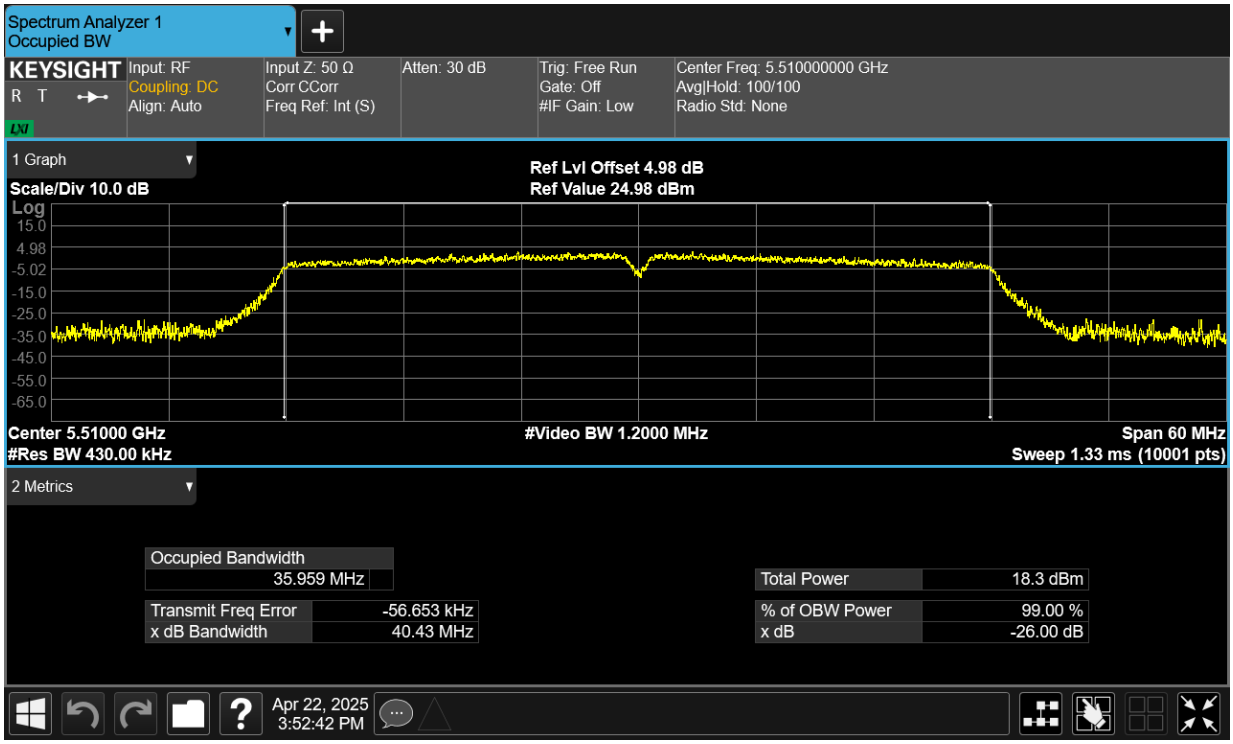
OBW NVNT n20 5600MHz Ant3



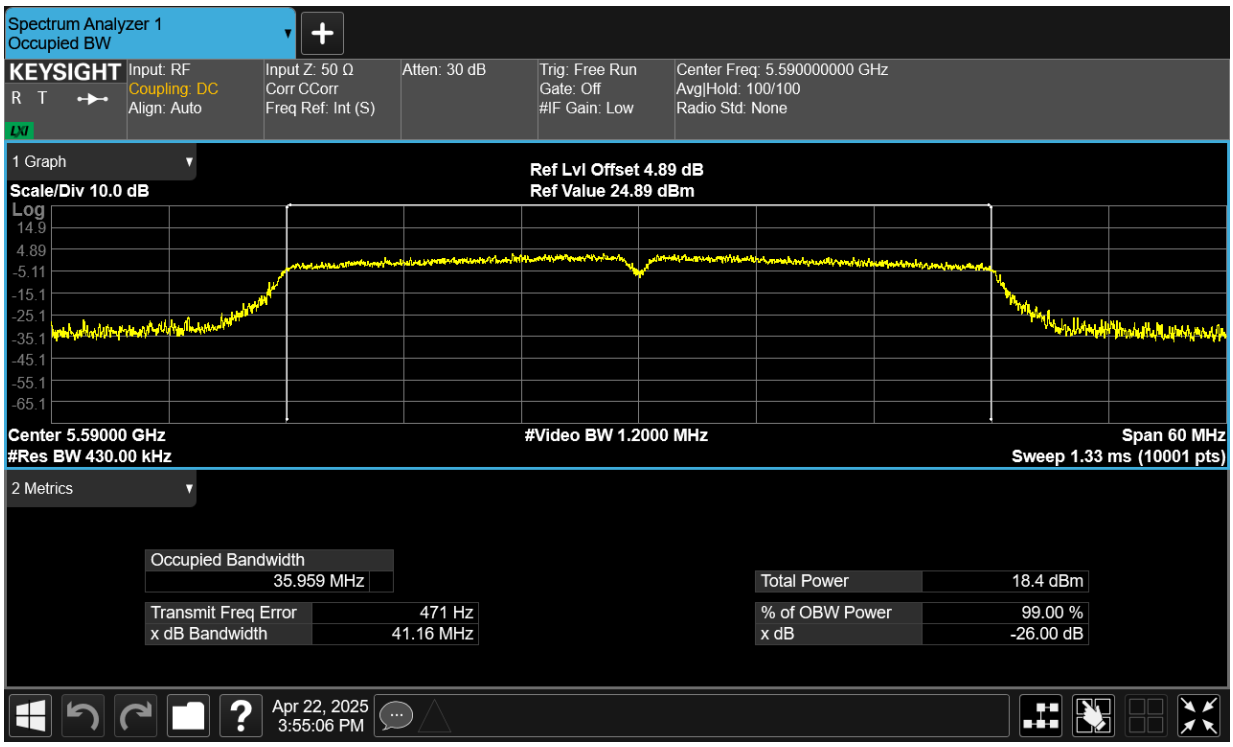
OBW NVNT n20 5700MHz Ant3



OBW NVNT n40 5510MHz Ant3



OBW NVNT n40 5590MHz Ant3



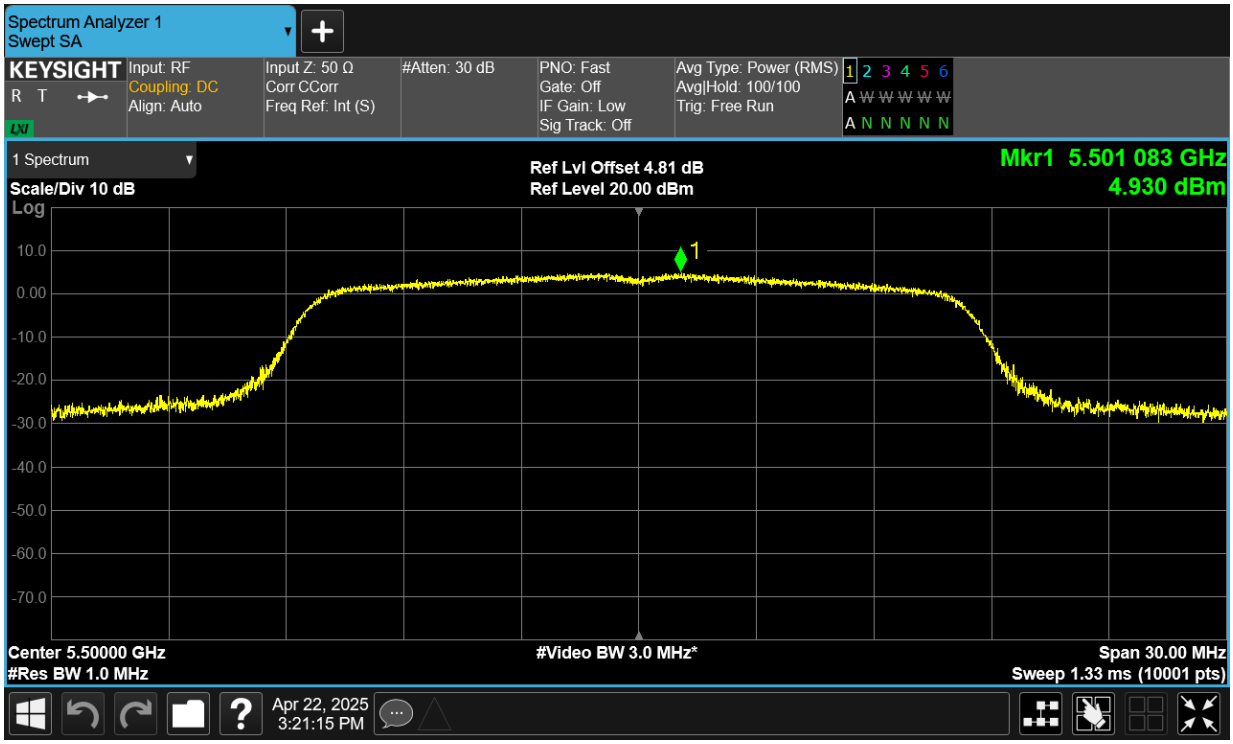
OBW NVNT n40 5670MHz Ant3

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
36.027 MHz
Transmit Freq Error 29.178 kHz
x dB Bandwidth 40.37 MHz
Total Power 17.8 dBm
% of OBW Power 99.00 %
x dB -26.00 dB
Apr 22, 2025
3:57:07 PM

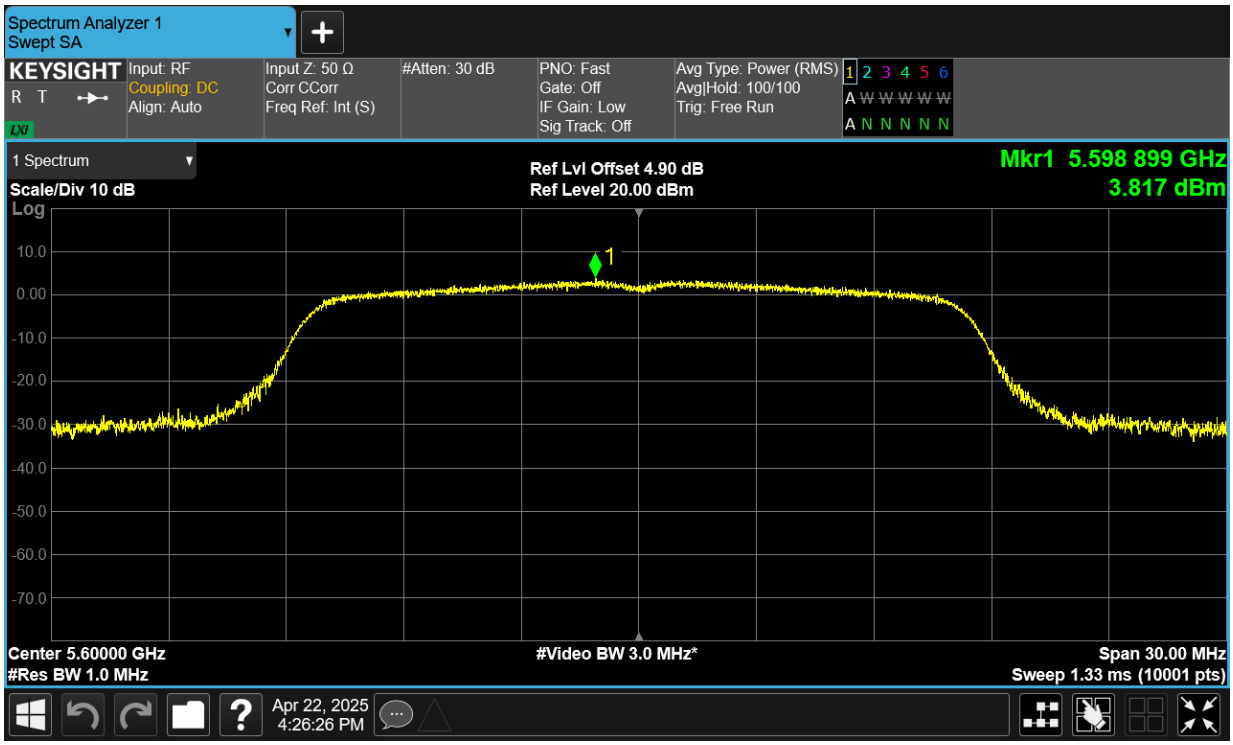
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant3	4.93	11	Pass
NVNT	a	5600	Ant3	3.817	11	Pass
NVNT	a	5700	Ant3	3.597	11	Pass
NVNT	ac20	5500	Ant3	3.78	11	Pass
NVNT	ac20	5600	Ant3	2.299	11	Pass
NVNT	ac20	5700	Ant3	2.464	11	Pass
NVNT	ac40	5510	Ant3	0.393	11	Pass
NVNT	ac40	5590	Ant3	-0.079	11	Pass
NVNT	ac40	5670	Ant3	-1.006	11	Pass
NVNT	ac80	5530	Ant3	-3.62	11	Pass
NVNT	ac80	5610	Ant3	-3.595	11	Pass
NVNT	n20	5500	Ant3	3.297	11	Pass
NVNT	n20	5600	Ant3	2.462	11	Pass
NVNT	n20	5700	Ant3	2.639	11	Pass
NVNT	n40	5510	Ant3	-0.065	11	Pass
NVNT	n40	5590	Ant3	0.087	11	Pass
NVNT	n40	5670	Ant3	-0.767	11	Pass

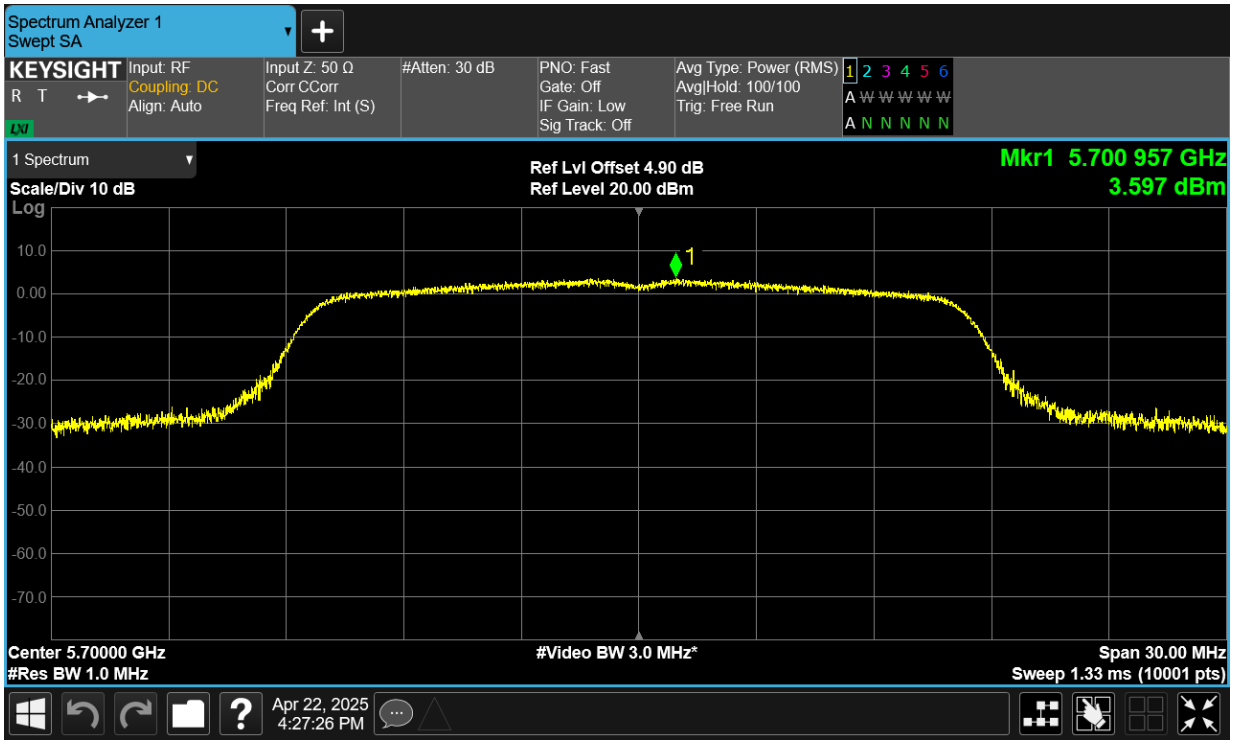
Test Graphs
PSD NVNT a 5500MHz Ant3



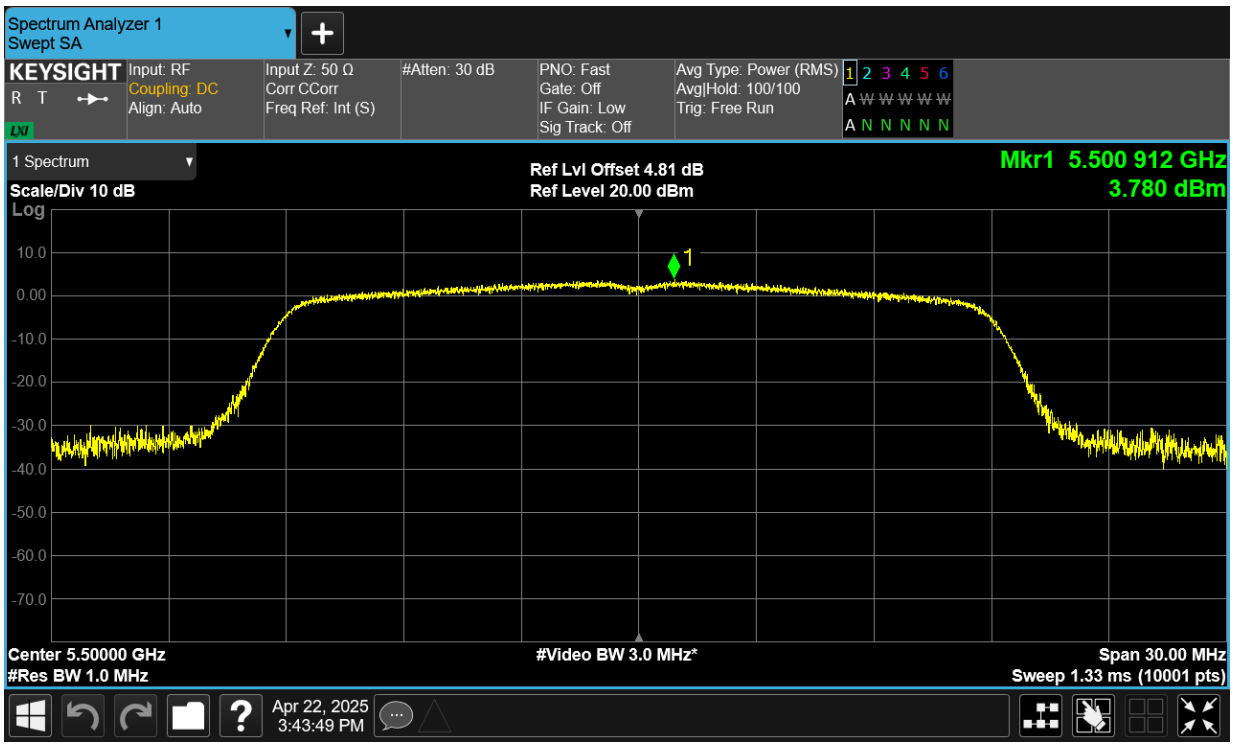
PSD NVNT a 5600MHz Ant3



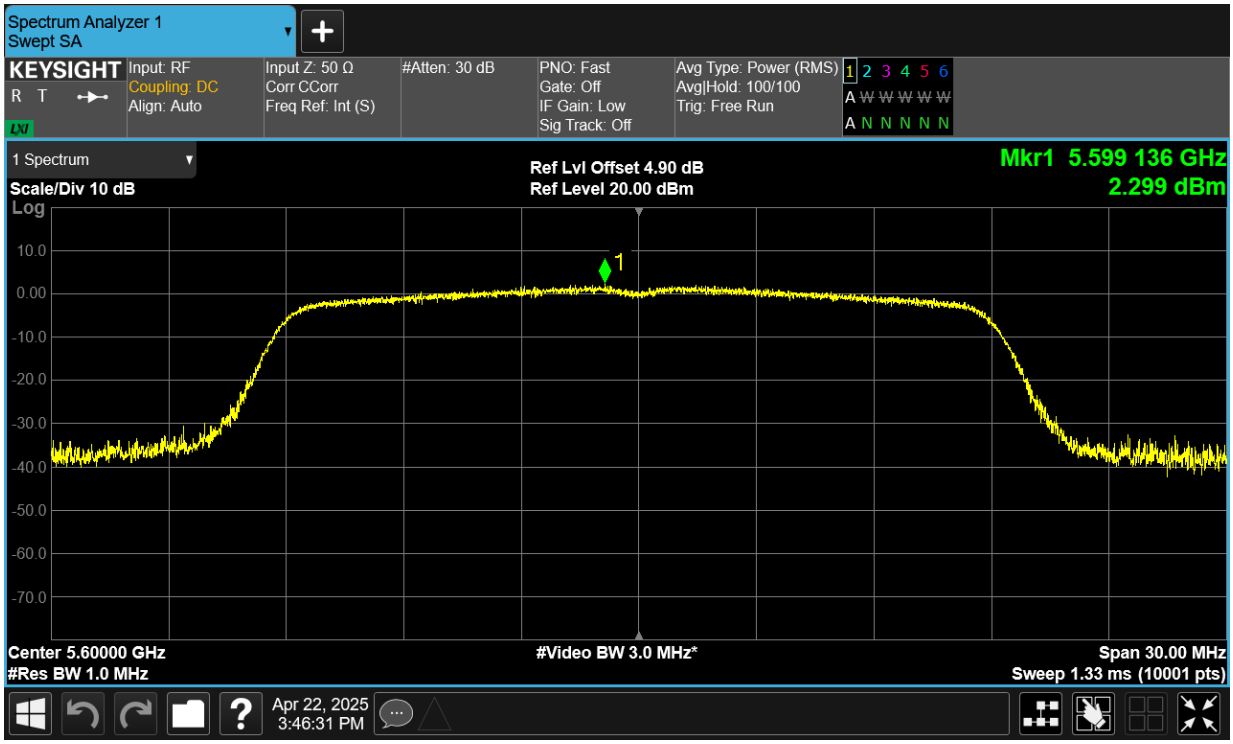
PSD NVNT a 5700MHz Ant3



PSD NVNT ac20 5500MHz Ant3

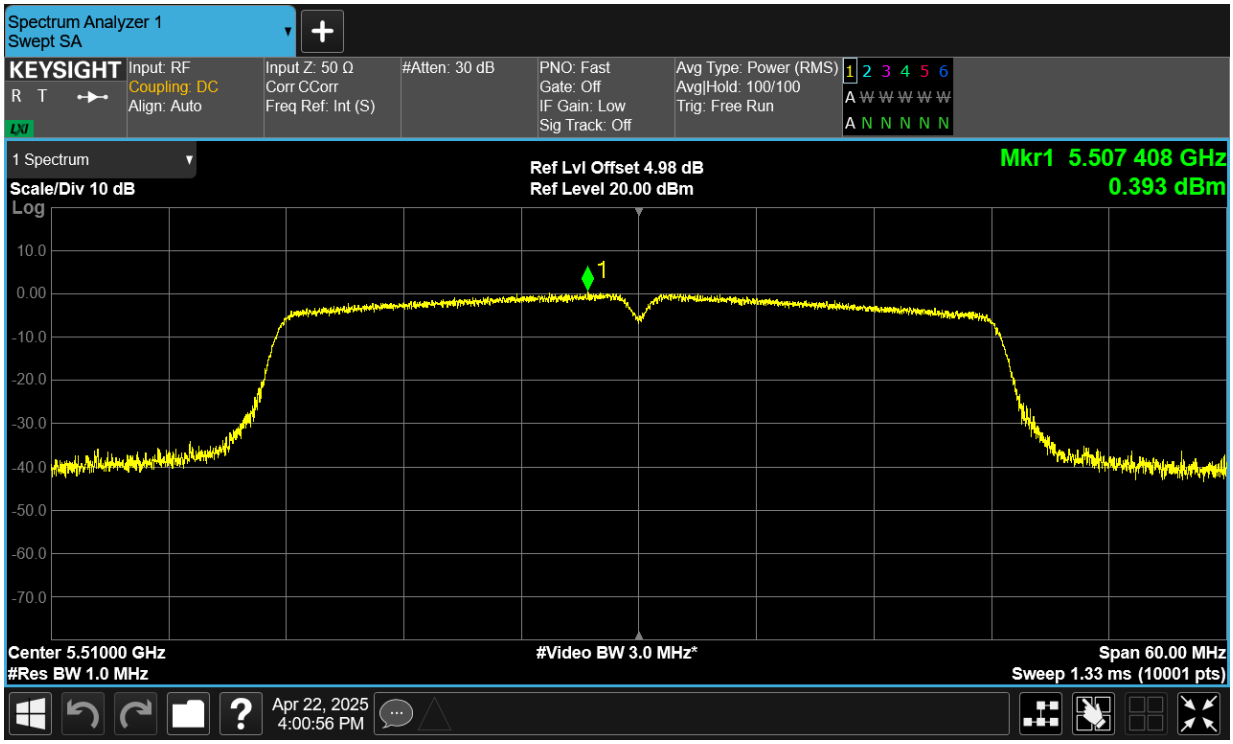


PSD NVNT ac20 5600MHz Ant3

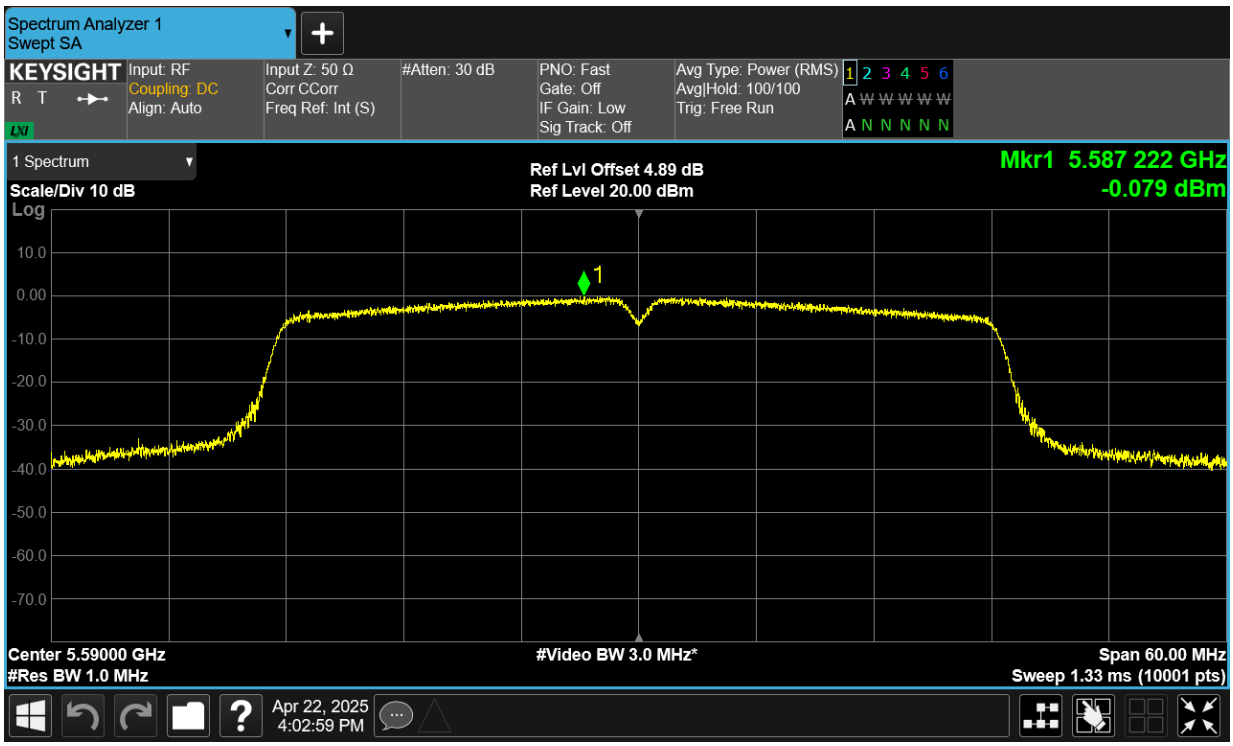


PSD NVNT ac20 5700MHz Ant3

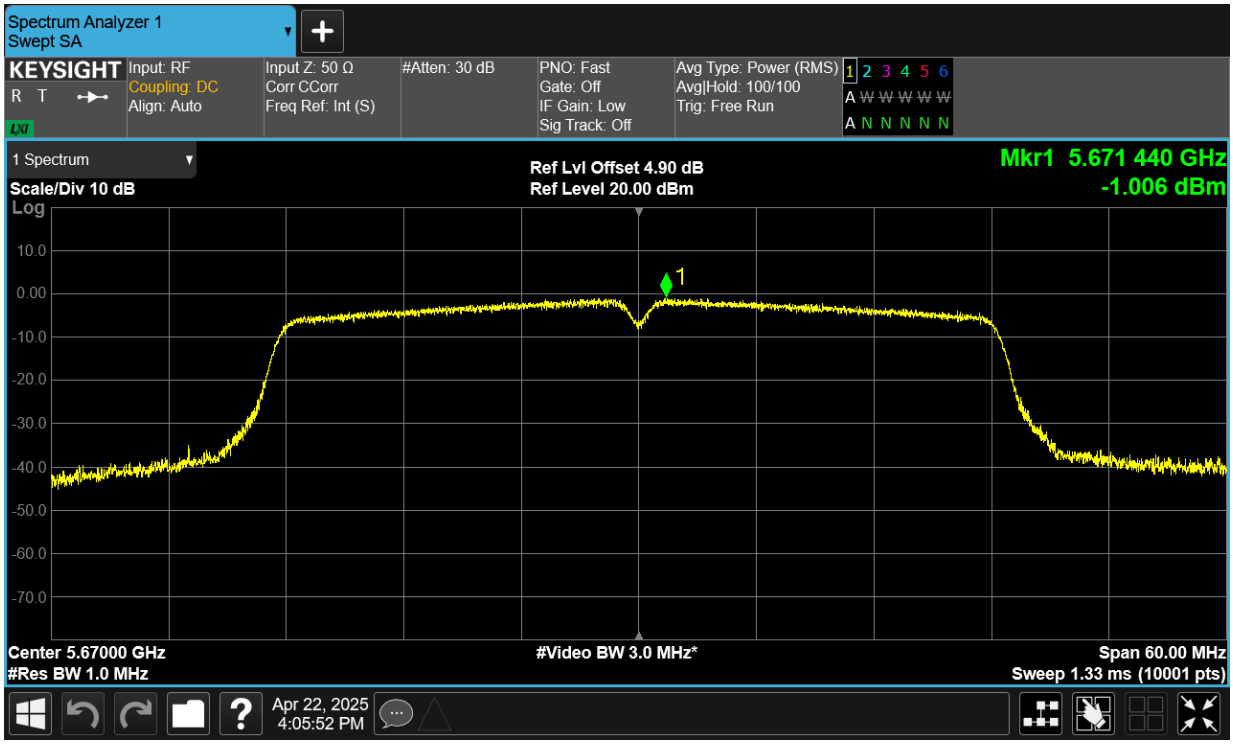
PSD NVNT ac40 5510MHz Ant3



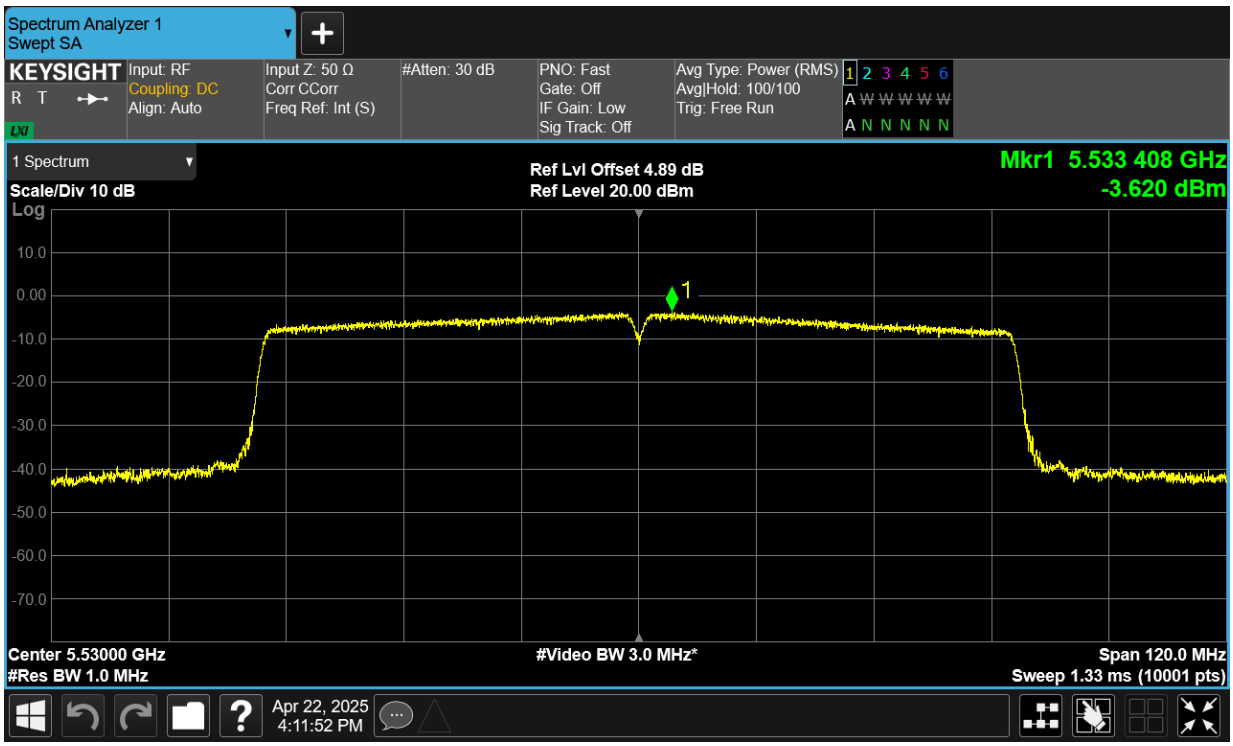
PSD NVNT ac40 5590MHz Ant3



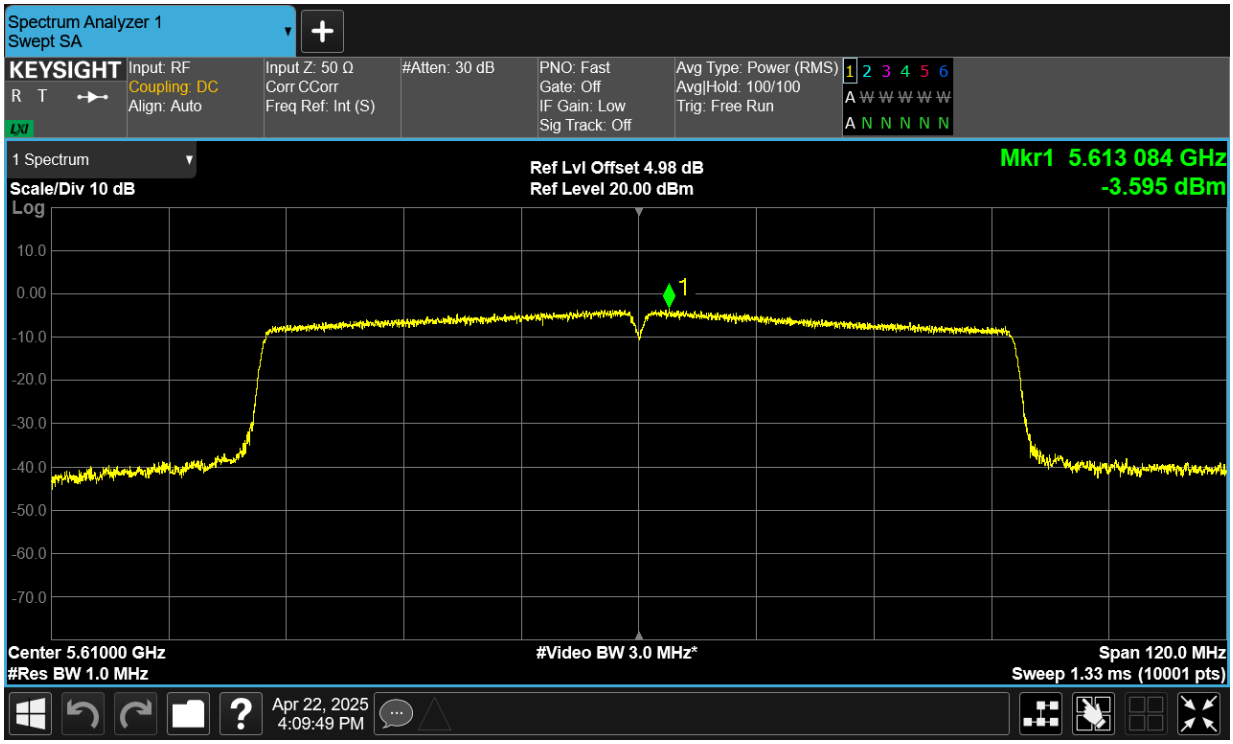
PSD NVNT ac40 5670MHz Ant3



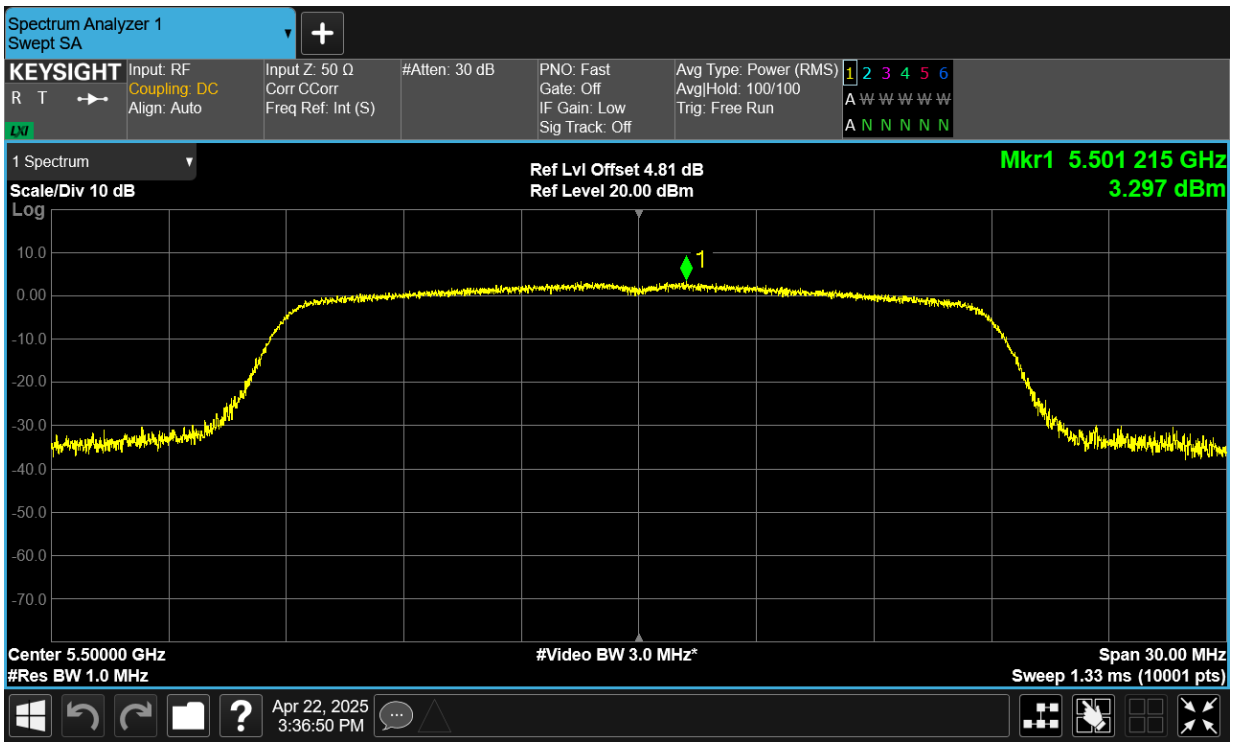
PSD NVNT ac80 5530MHz Ant3



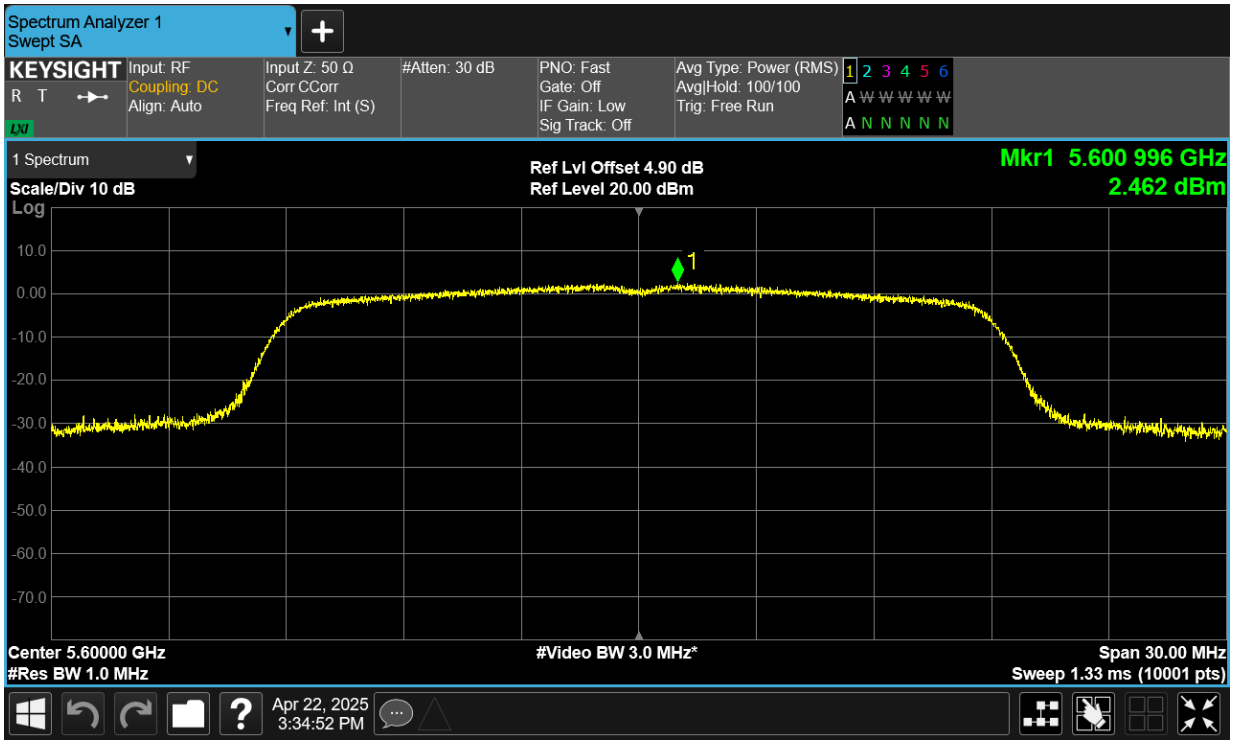
PSD NVNT ac80 5610MHz Ant3



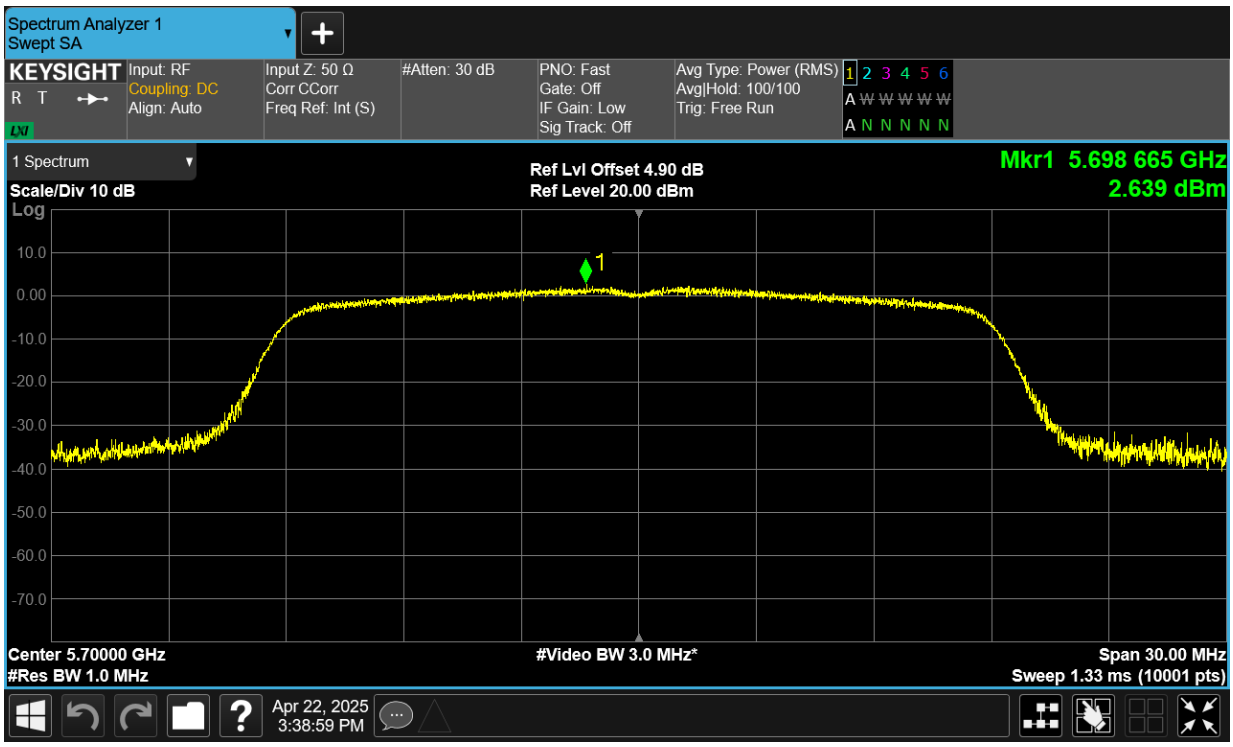
PSD NVNT n20 5500MHz Ant3



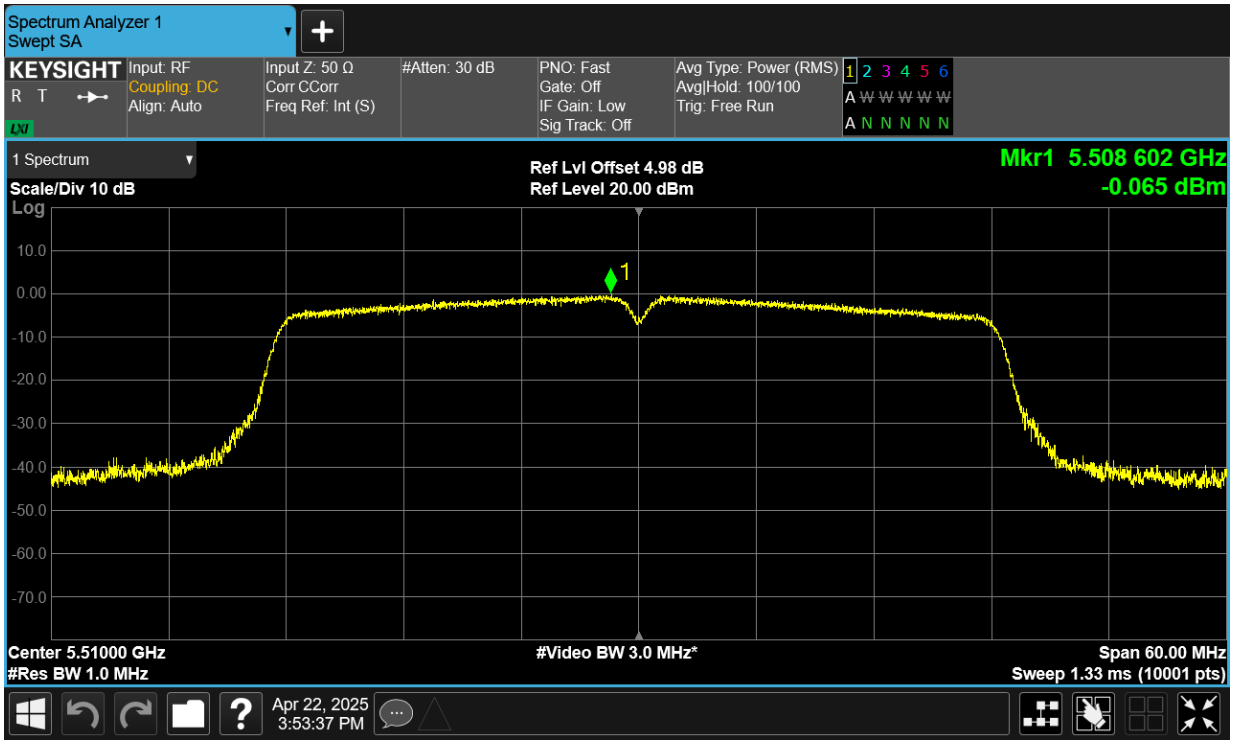
PSD NVNT n20 5600MHz Ant3



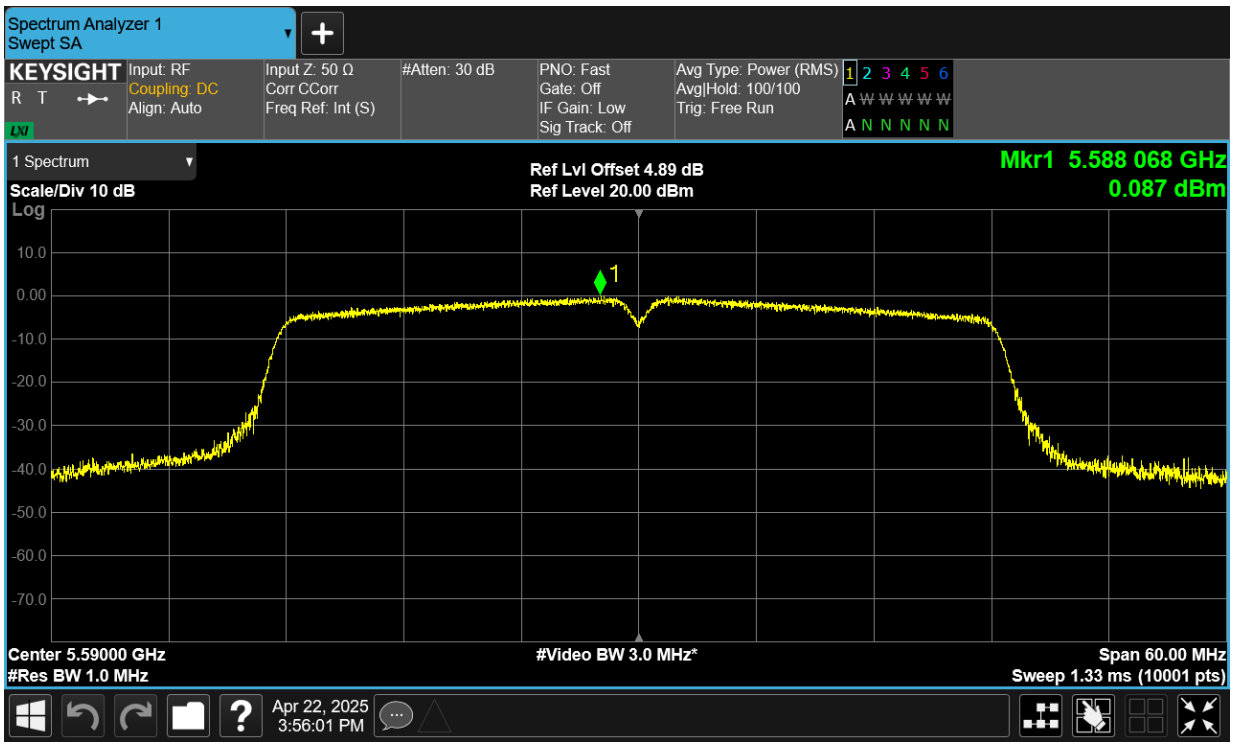
PSD NVNT n20 5700MHz Ant3



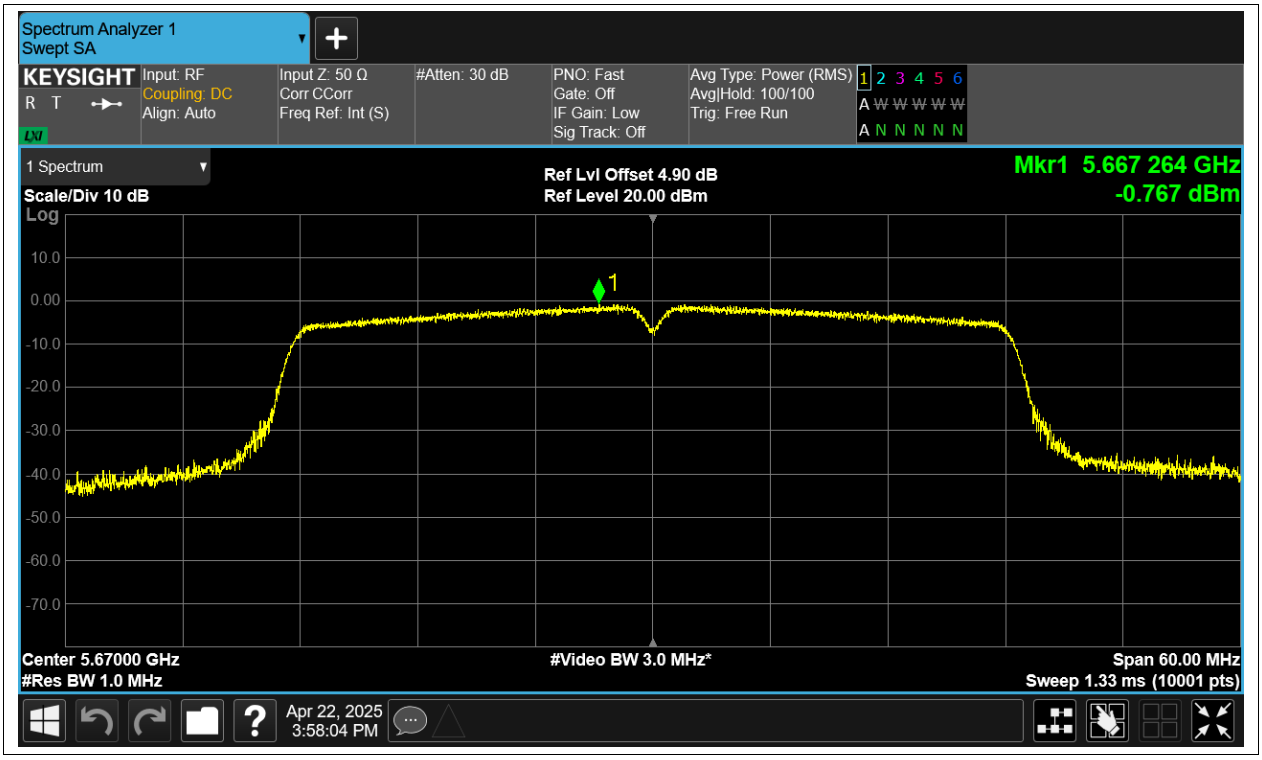
PSD NVNT n40 5510MHz Ant3



PSD NVNT n40 5590MHz Ant3



PSD NVNT n40 5670MHz Ant3


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 5.667 264 GHz
-0.767 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 22, 2025
3:58:04 PM