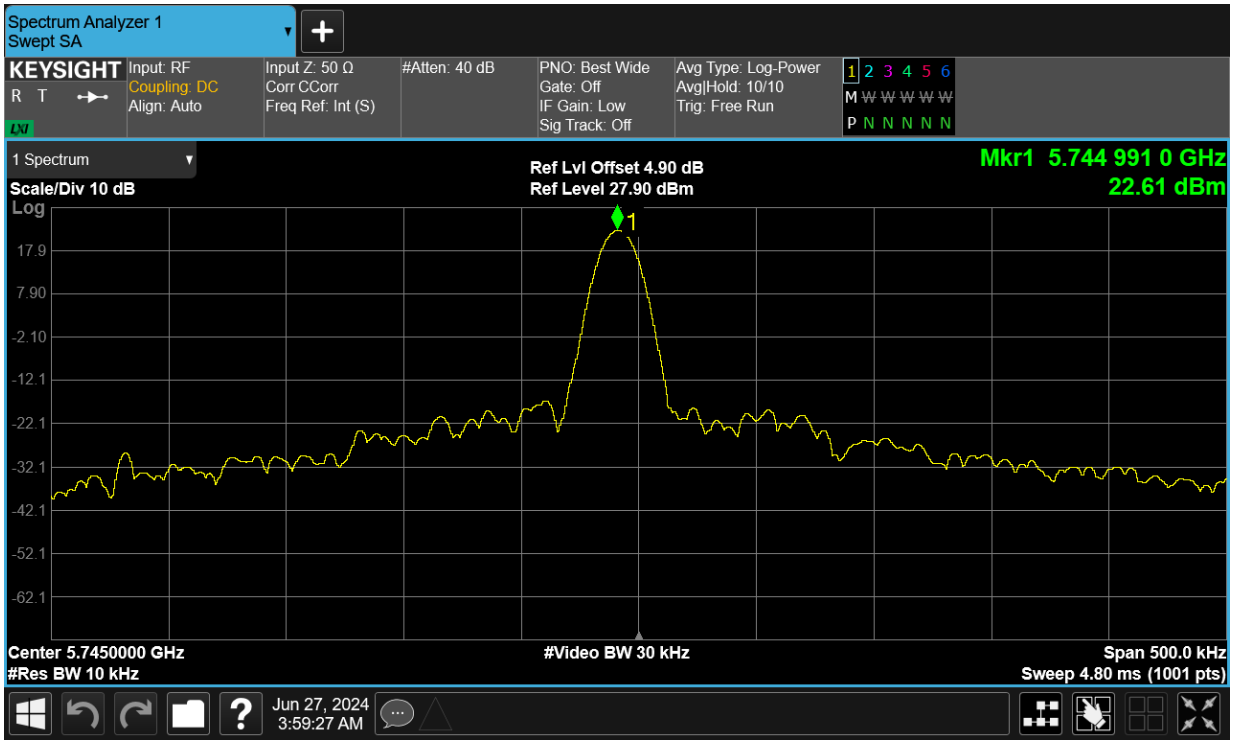
# Test Data

## Frequency Stability

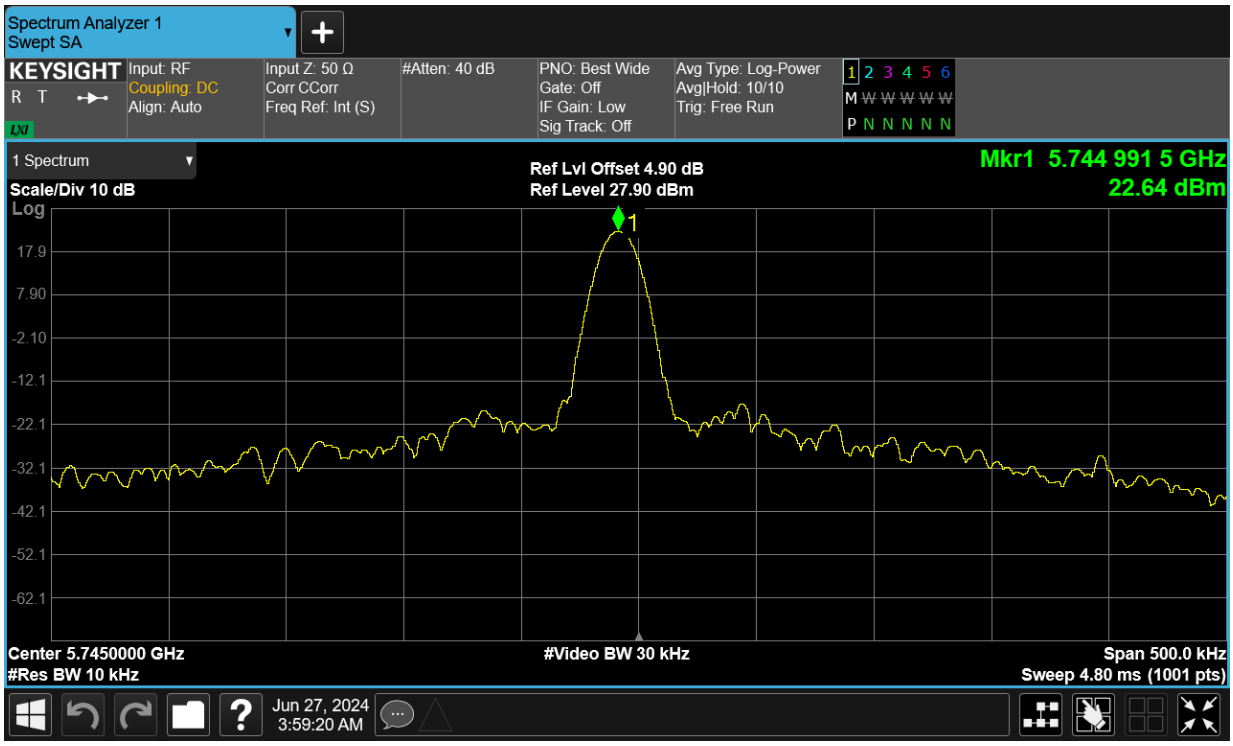
| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| HVNT | a | 5745 | Ant1 | 5744.991 | -1.57 | Within authorized band | Pass |
| LVNT | a | 5745 | Ant1 | 5744.9915 | -1.48 | | Pass |
| NVHT | a | 5745 | Ant1 | 5744.9915 | -1.48 | | Pass |
| NVLT | a | 5745 | Ant1 | 5744.9915 | -1.48 | | Pass |
| NVNT | a | 5745 | Ant1 | 5744.994 | -1.04 | | Pass |
| HVNT | ac80 | 5775 | Ant1 | 5774.993 | -1.21 | | Pass |
| LVNT | ac80 | 5775 | Ant1 | 5774.9935 | -1.13 | | Pass |
| NVHT | ac80 | 5775 | Ant1 | 5774.9935 | -1.13 | | Pass |
| NVLT | ac80 | 5775 | Ant1 | 5774.994 | -1.04 | | Pass |
| NVNT | ac80 | 5775 | Ant1 | 5774.9955 | -0.78 | | Pass |
| HVNT | n40 | 5755 | Ant1 | 5754.992 | -1.39 | | Pass |
| LVNT | n40 | 5755 | Ant1 | 5754.9925 | -1.3 | | Pass |
| NVHT | n40 | 5755 | Ant1 | 5754.993 | -1.22 | | Pass |
| NVLT | n40 | 5755 | Ant1 | 5754.9935 | -1.13 | | Pass |
| NVNT | n40 | 5755 | Ant1 | 5754.9945 | -0.96 | | 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

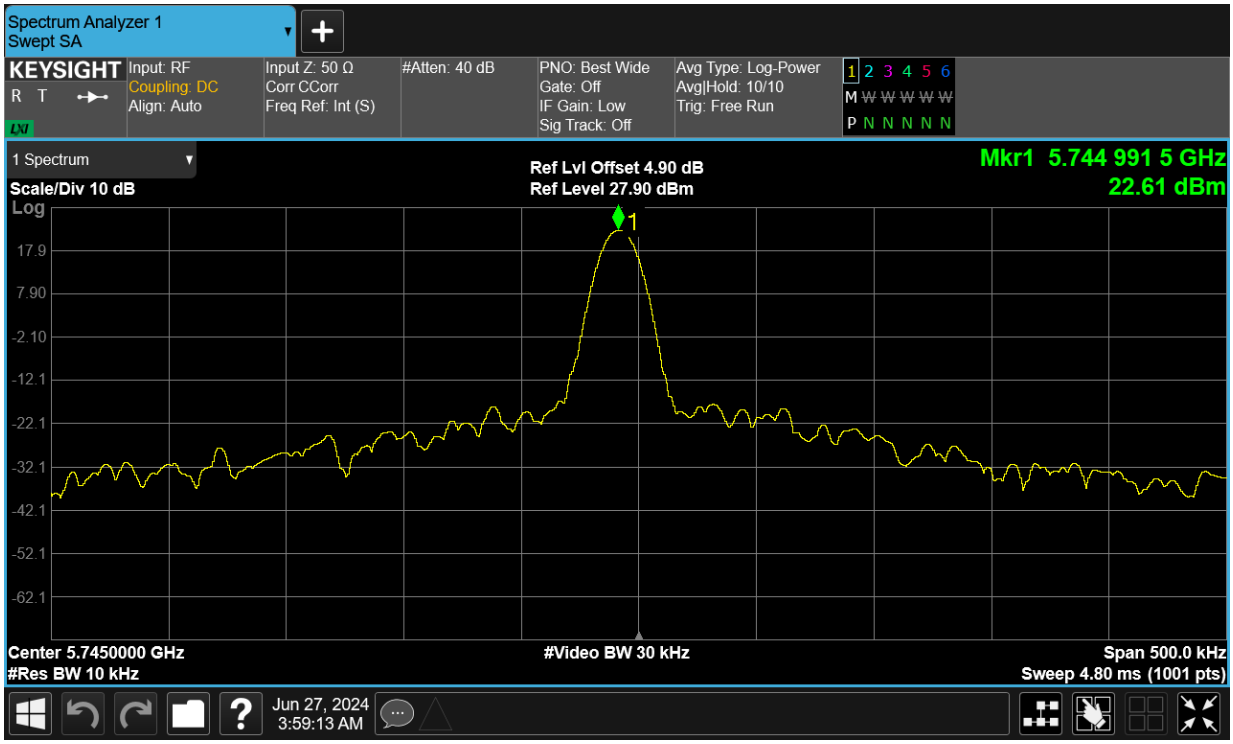
Freq. Stability HVNT a 5745MHz Ant1



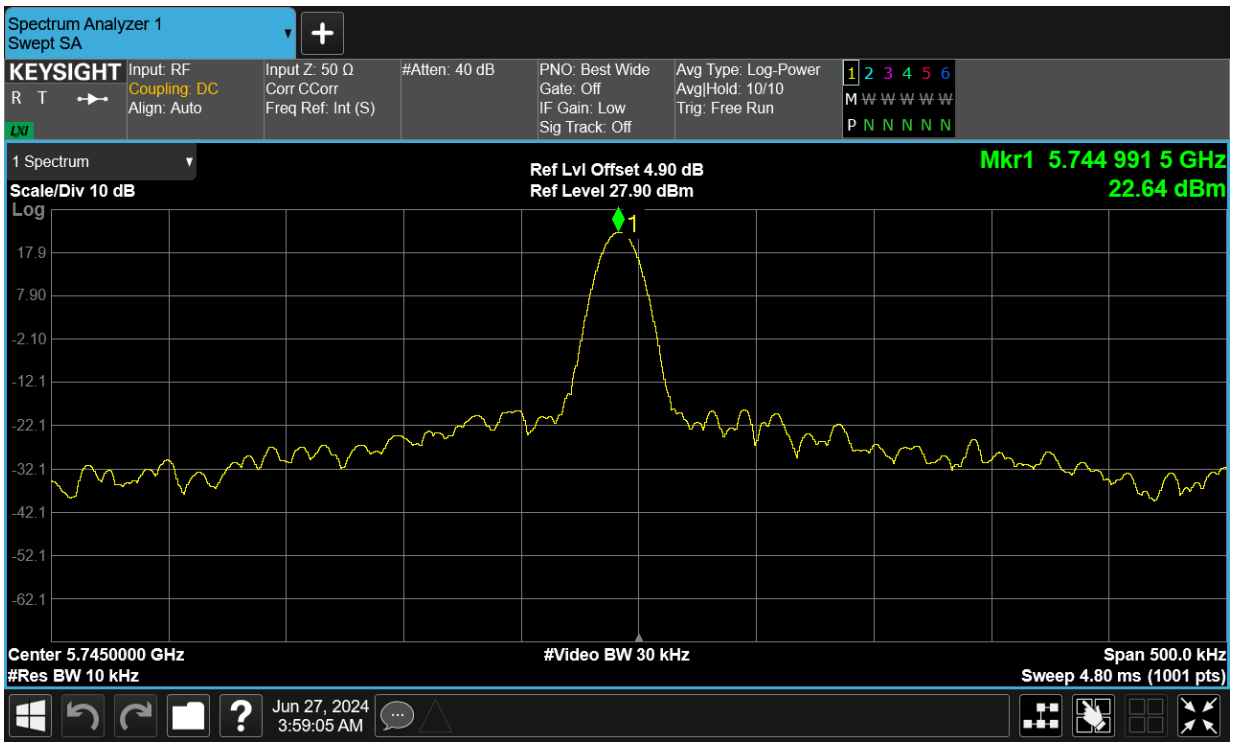

Freq. Stability LVNT a 5745MHz Ant1



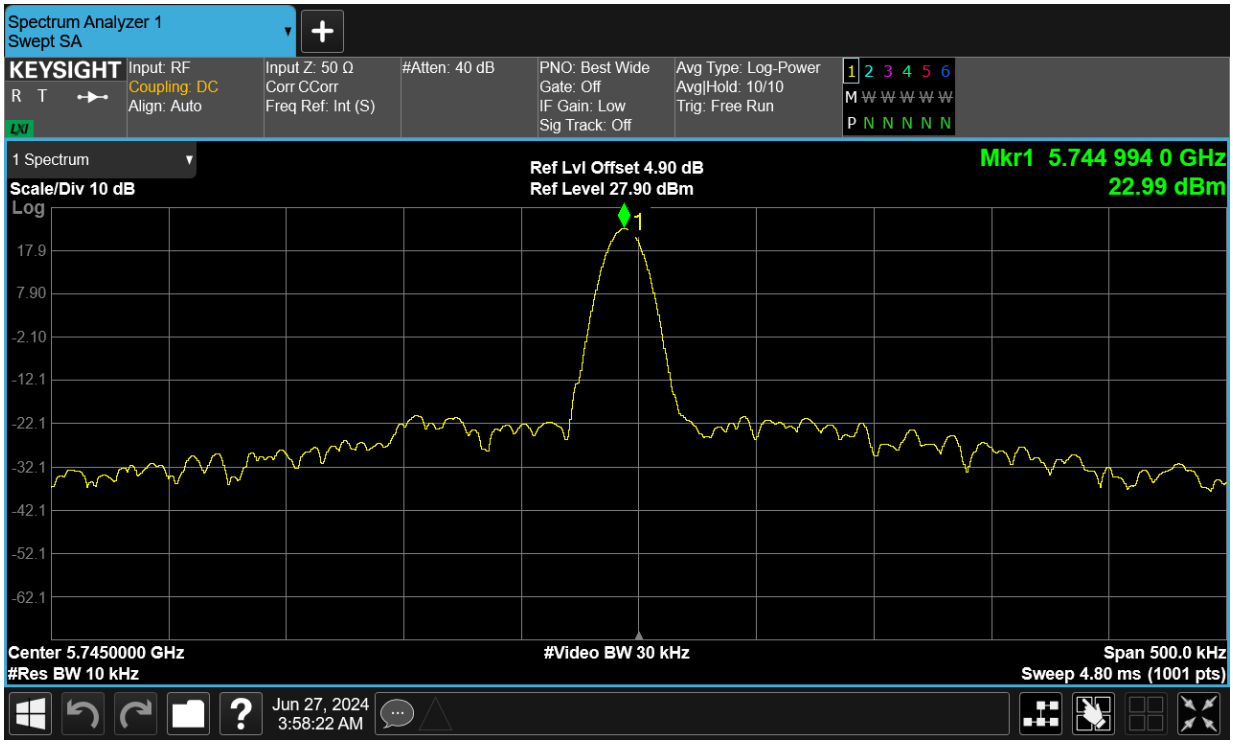

Freq. Stability NVHT a 5745MHz Ant1



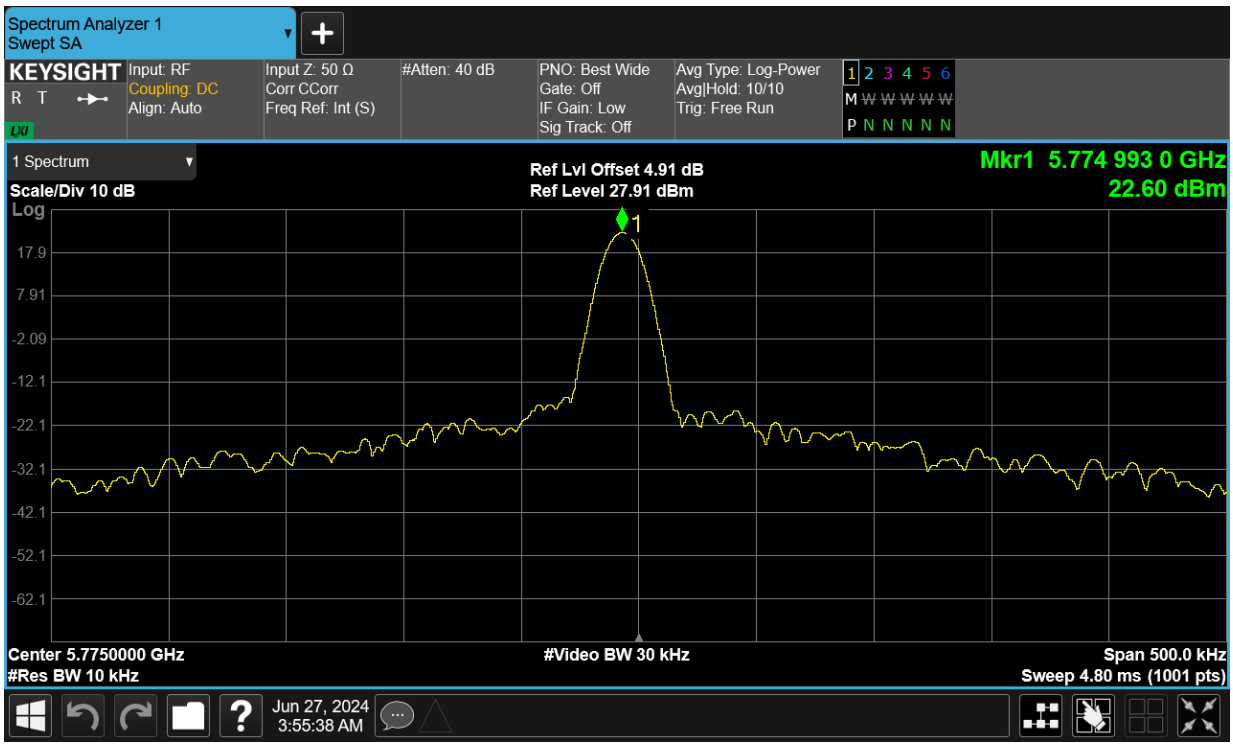

Freq. Stability NVLT a 5745MHz Ant1



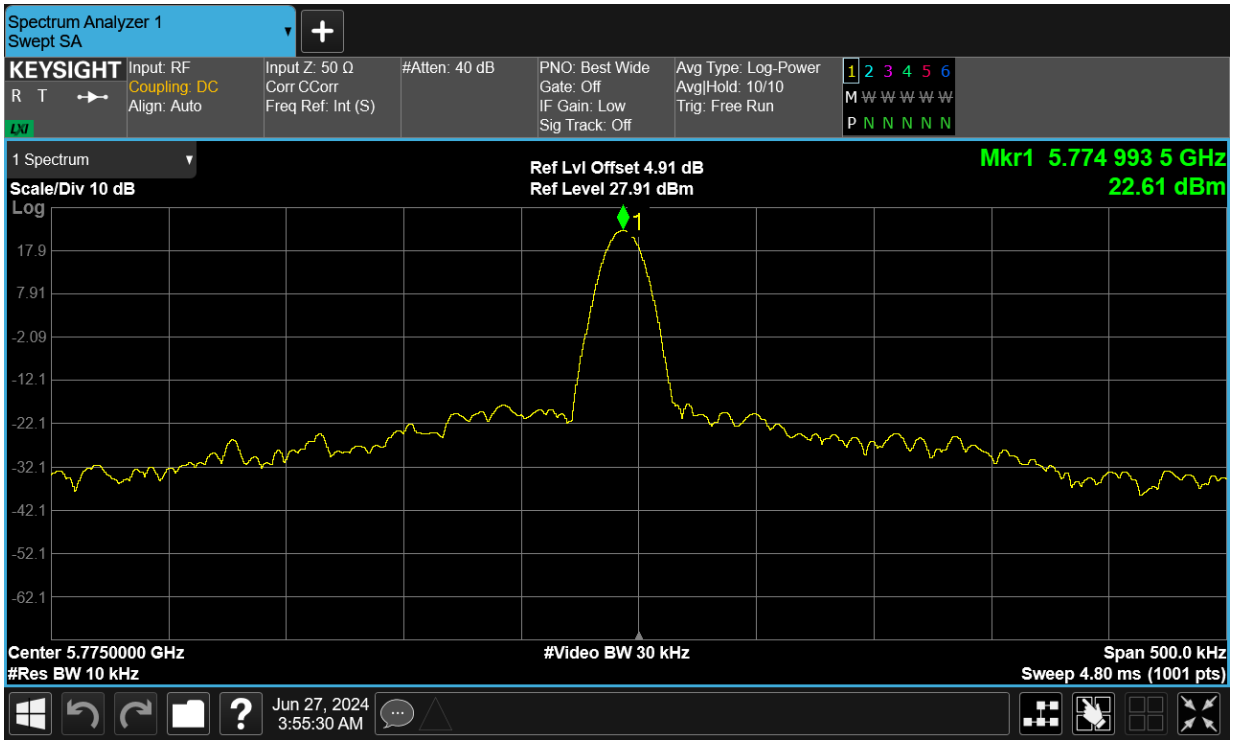

Freq. Stability NVNT a 5745MHz Ant1



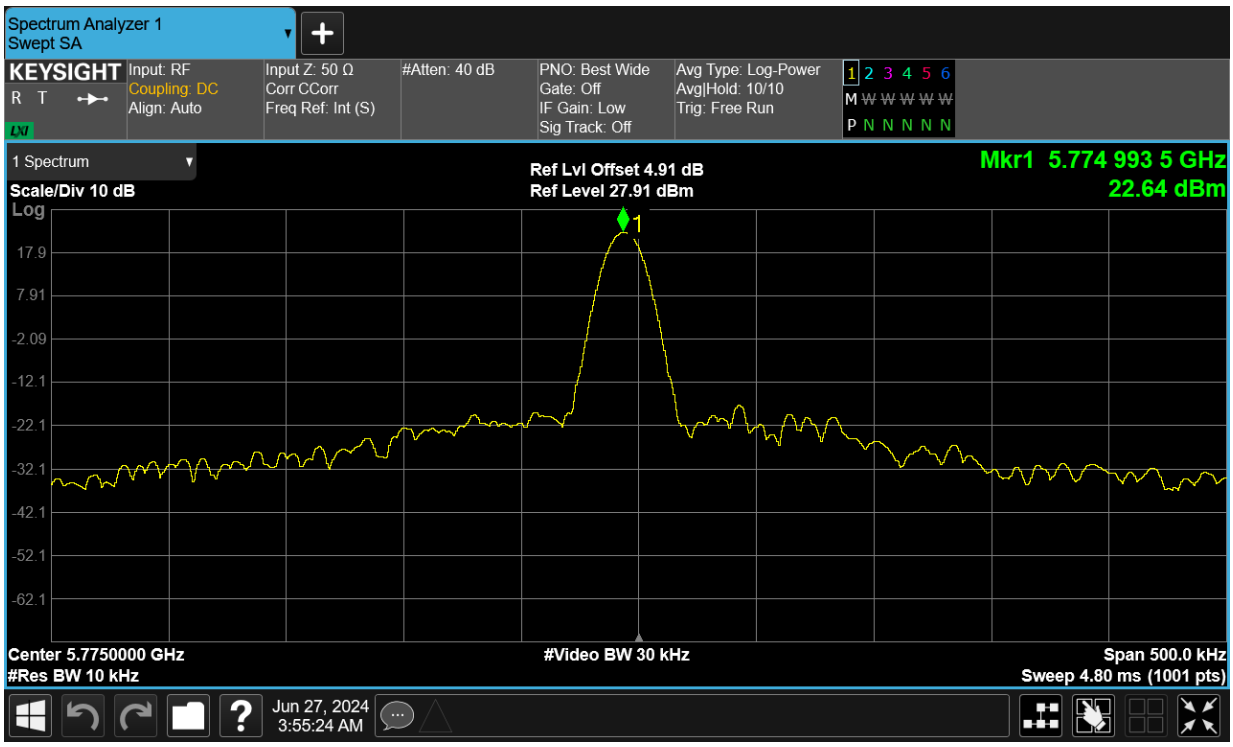

Freq. Stability HVNT ac80 5775MHz Ant1



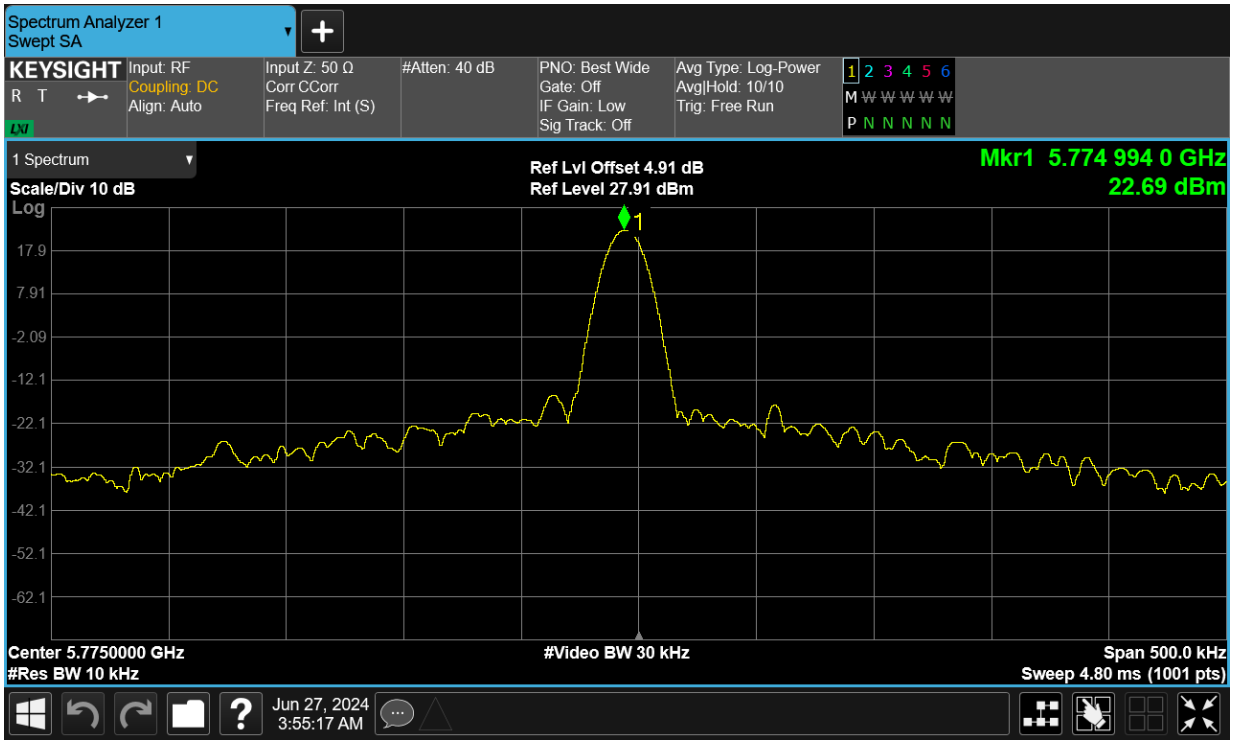

Freq. Stability LVNT ac80 5775MHz Ant1



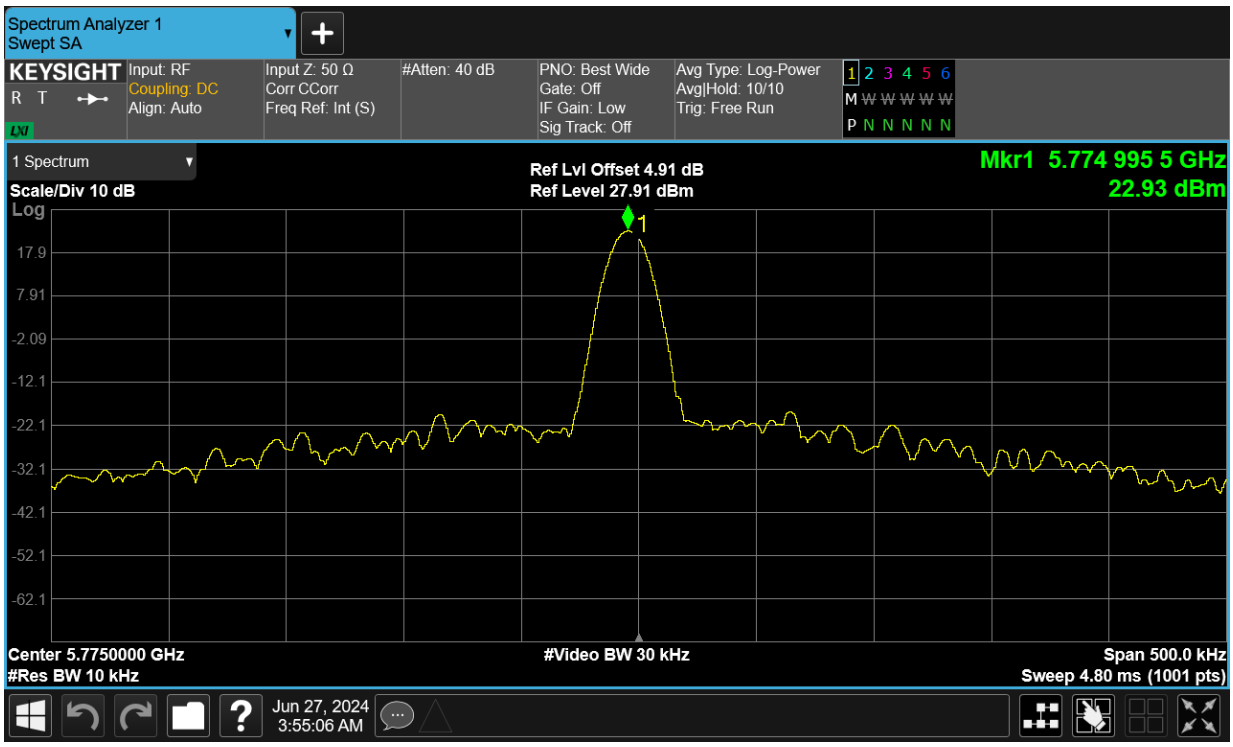

Freq. Stability NVHT ac80 5775MHz Ant1



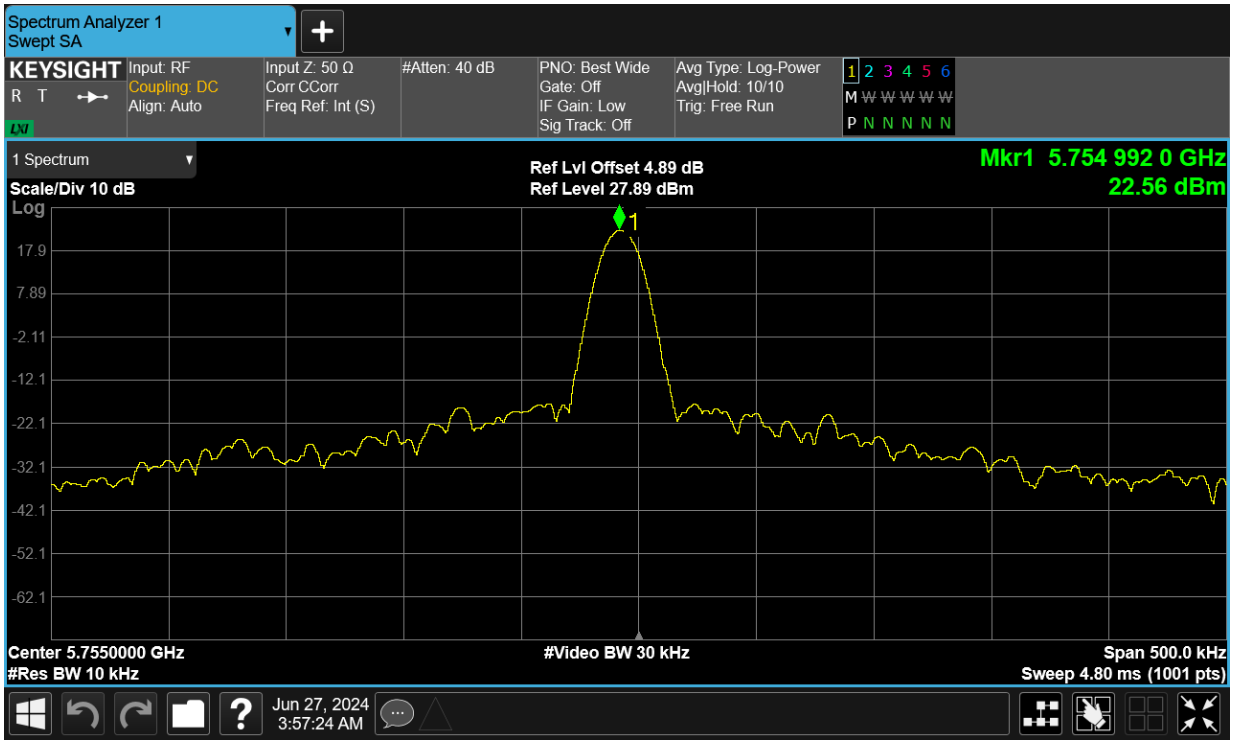

Freq. Stability NVLT ac80 5775MHz Ant1



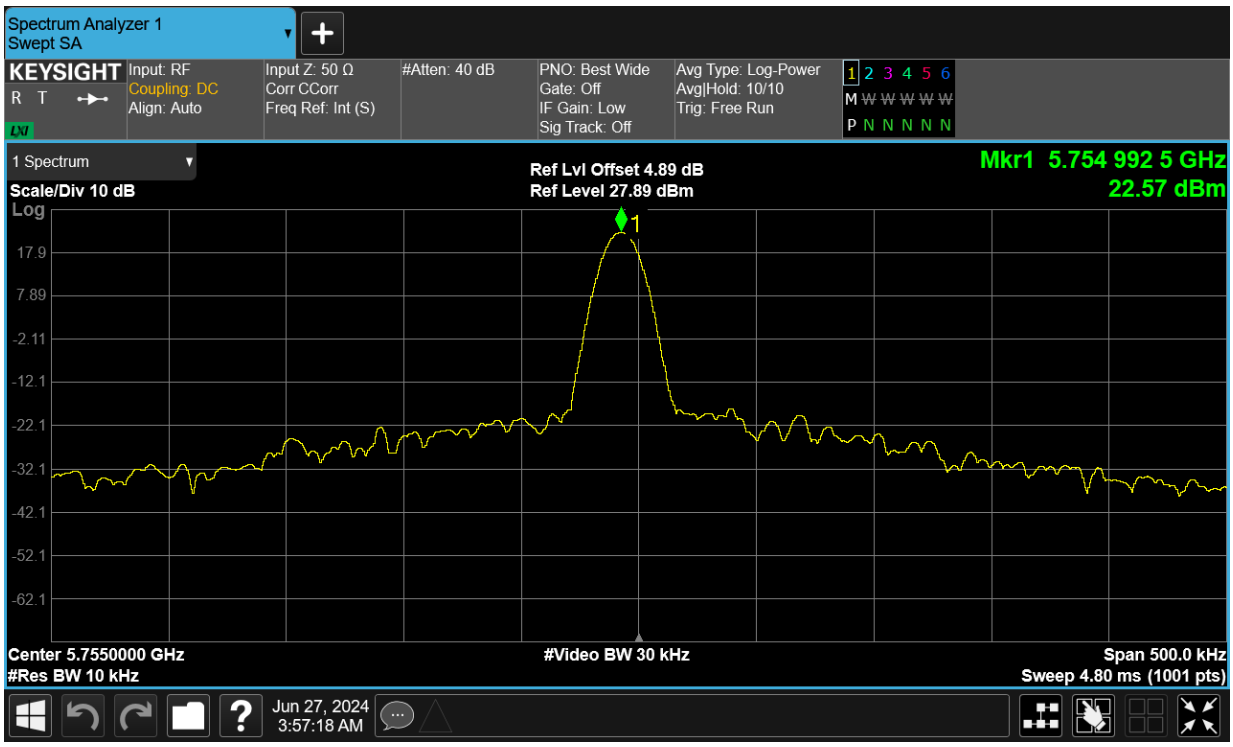

Freq. Stability NVNT ac80 5775MHz Ant1



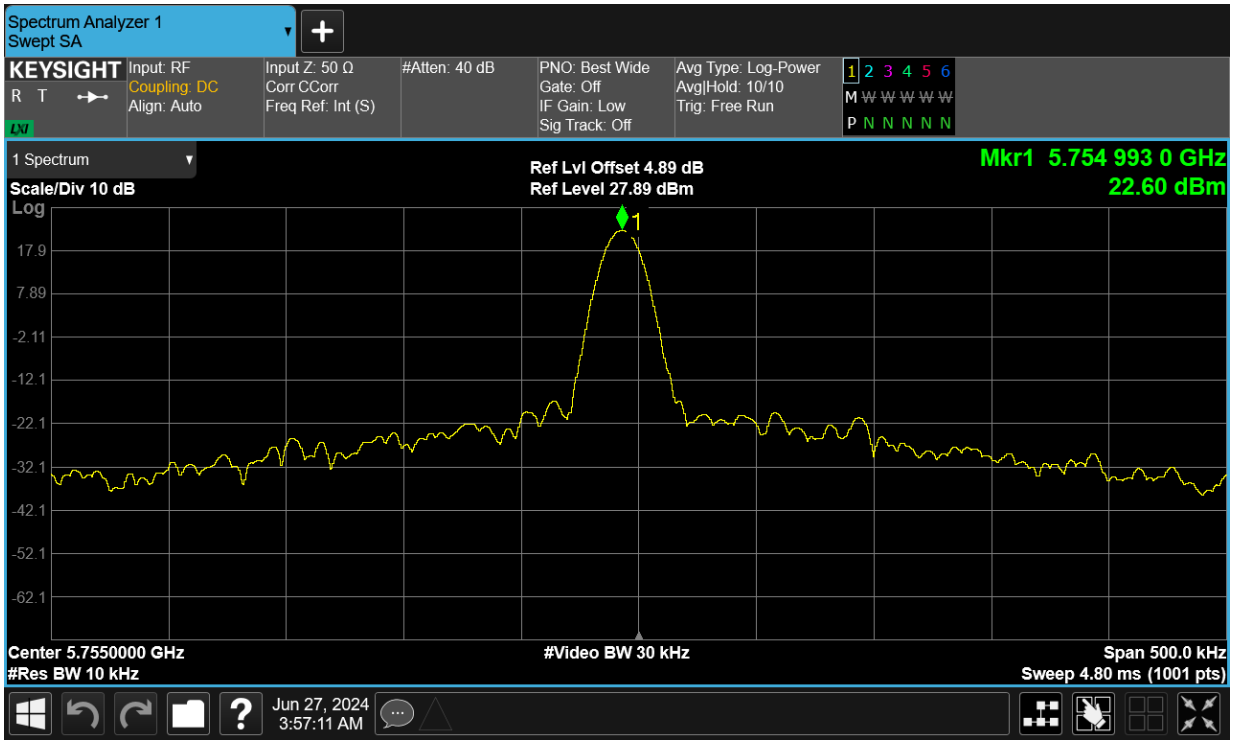

Freq. Stability HVNT n40 5755MHz Ant1



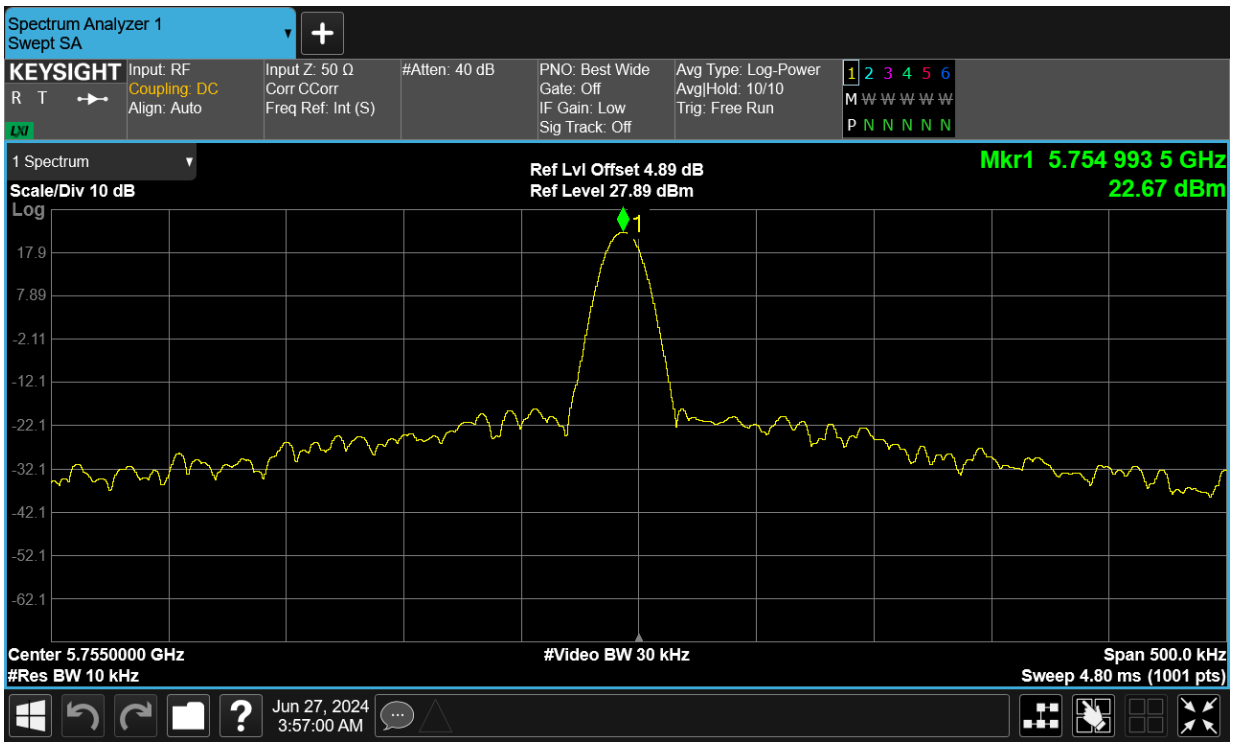

Freq. Stability LVNT n40 5755MHz Ant1



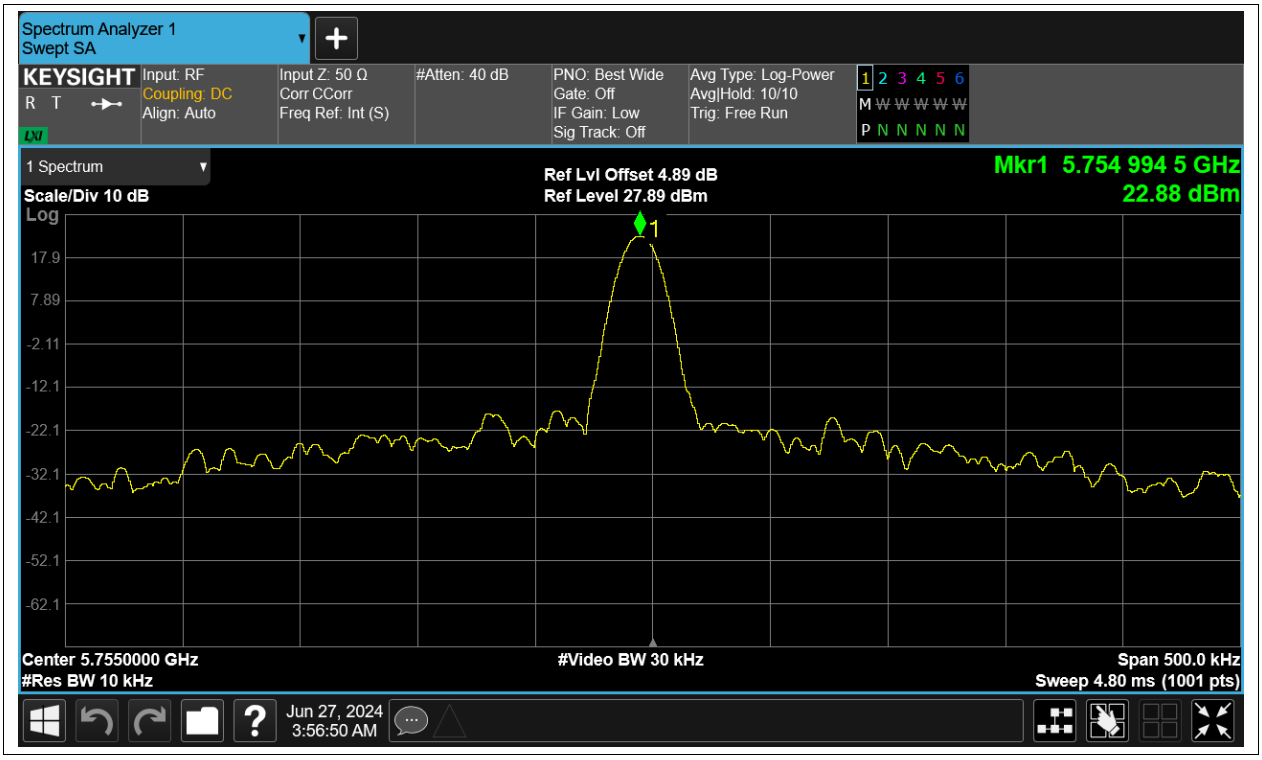

Freq. Stability NVHT n40 5755MHz Ant1




Freq. Stability NVLT n40 5755MHz Ant1




Freq. Stability NVNT n40 5755MHz Ant1

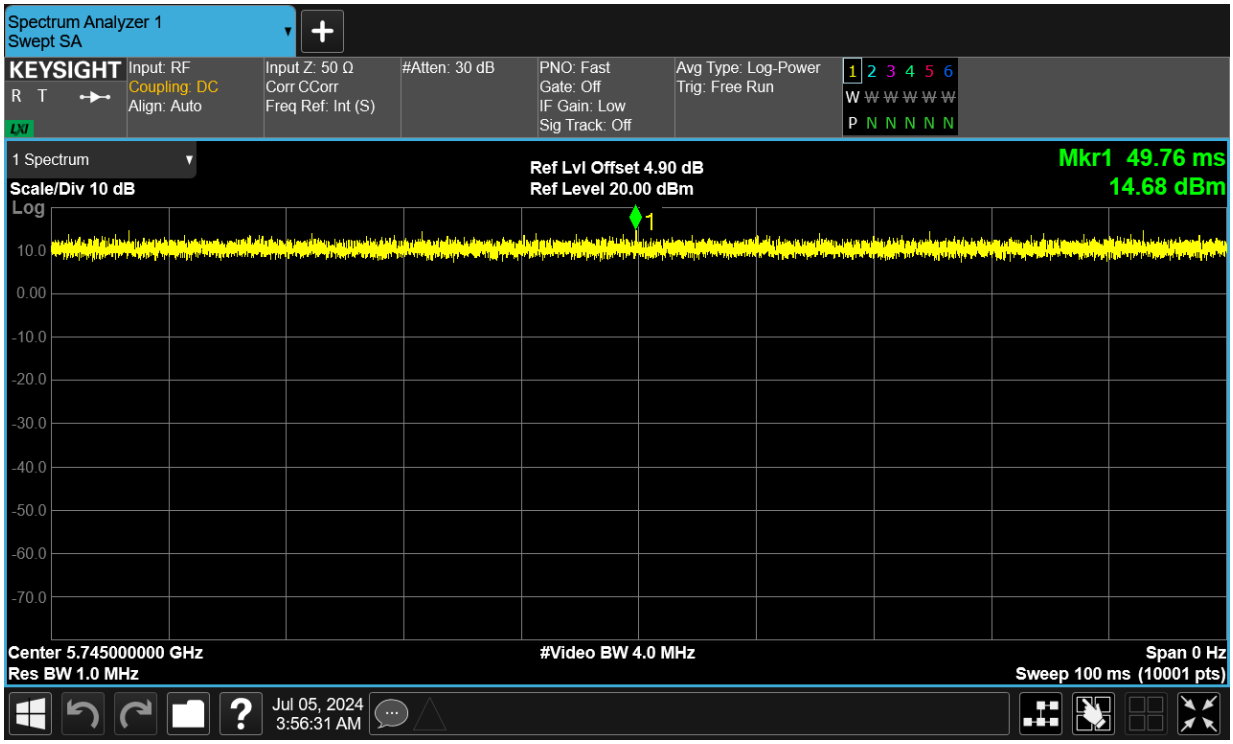

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 4.89 dB
Ref Level 27.89 dBm
Mkr1 5.754 994 5 GHz
22.88 dBm
17.9
7.89
-2.11
-12.1
-22.1
-32.1
-42.1
-52.1
-62.1
Center 5.7550000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 500.0 kHz
Sweep 4.80 ms (1001 pts)
Jun 27, 2024
3:56:50 AM

# Duty Cycle

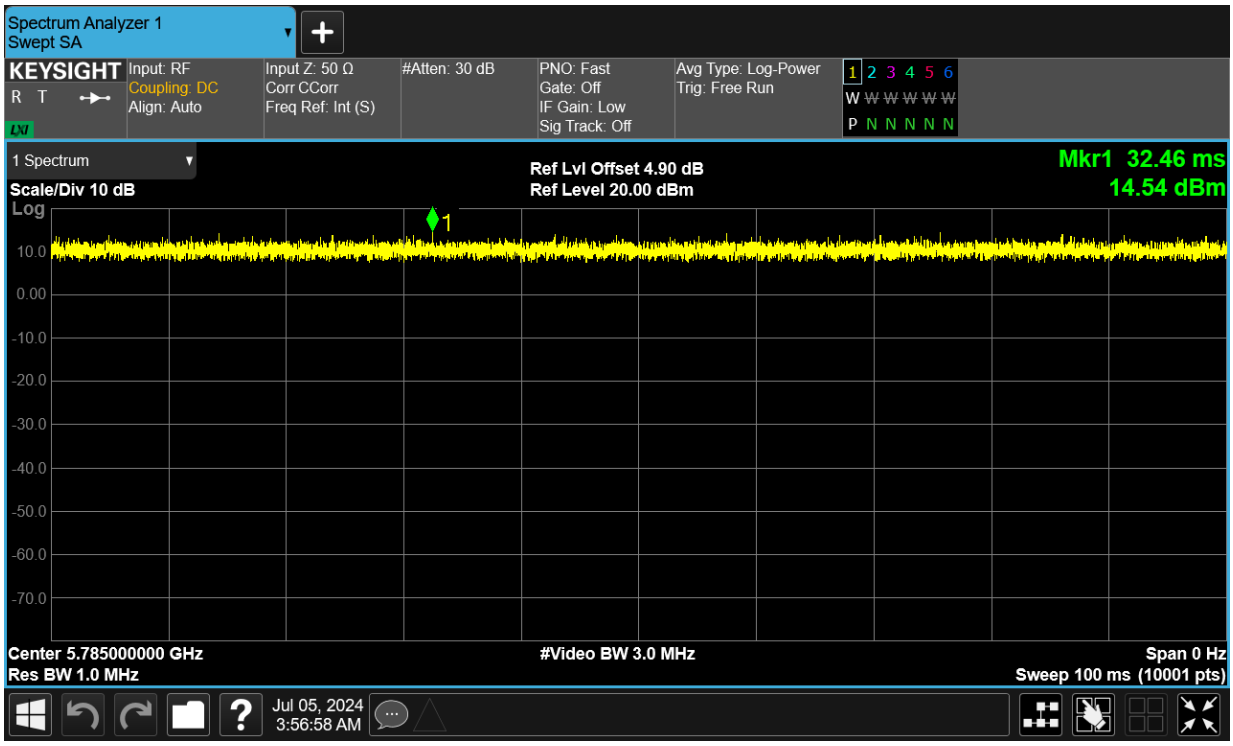
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) |
|---|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | 100 | 0 |
| NVNT | a | 5785 | Ant1 | 100 | 0 |
| NVNT | a | 5825 | Ant1 | 100 | 0 |
| NVNT | ac20 | 5745 | Ant1 | 100 | 0 |
| NVNT | ac20 | 5785 | Ant1 | 100 | 0 |
| NVNT | ac20 | 5825 | Ant1 | 100 | 0 |
| NVNT | ac40 | 5755 | Ant1 | 100 | 0 |
| NVNT | ac40 | 5795 | Ant1 | 100 | 0 |
| NVNT | ac80 | 5775 | Ant1 | 100 | 0 |
| NVNT | n20 | 5745 | Ant1 | 100 | 0 |
| NVNT | n20 | 5785 | Ant1 | 100 | 0 |
| NVNT | n20 | 5825 | Ant1 | 100 | 0 |
| NVNT | n40 | 5755 | Ant1 | 100 | 0 |
| NVNT | n40 | 5795 | Ant1 | 100 | 0 |

Test Graphs

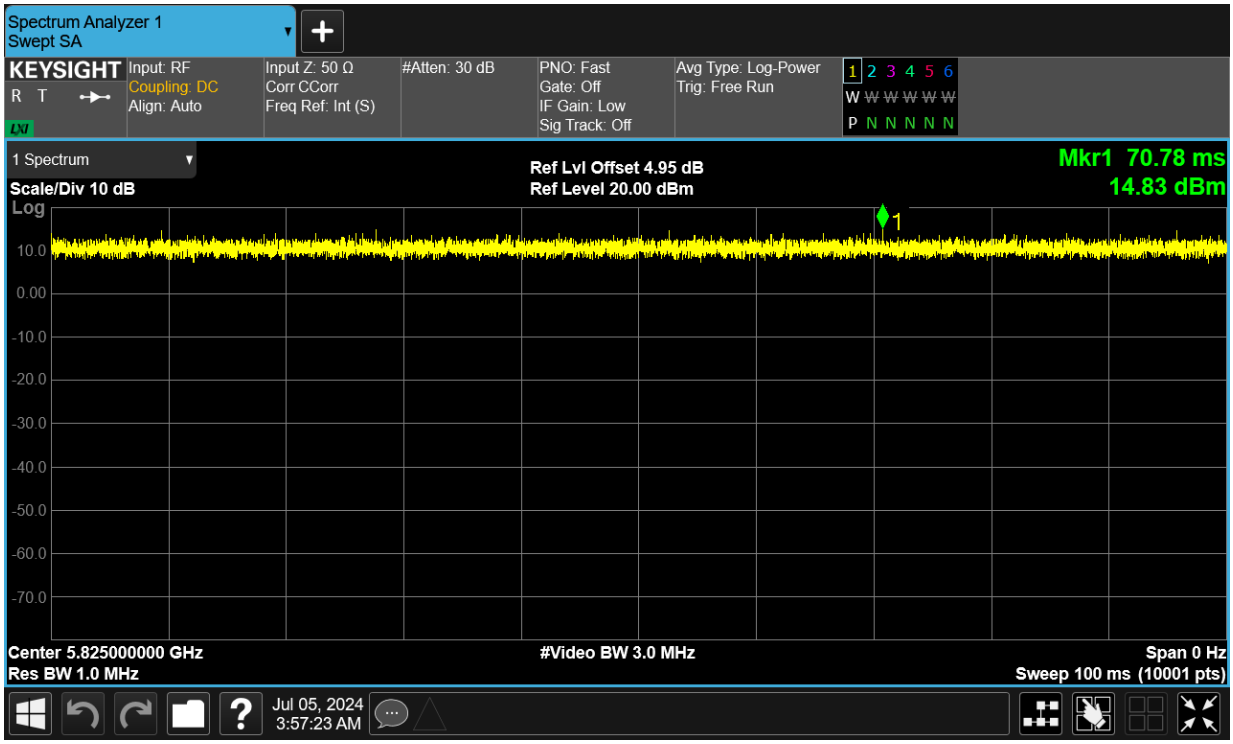
Duty Cycle NVNT a 5745MHz Ant1



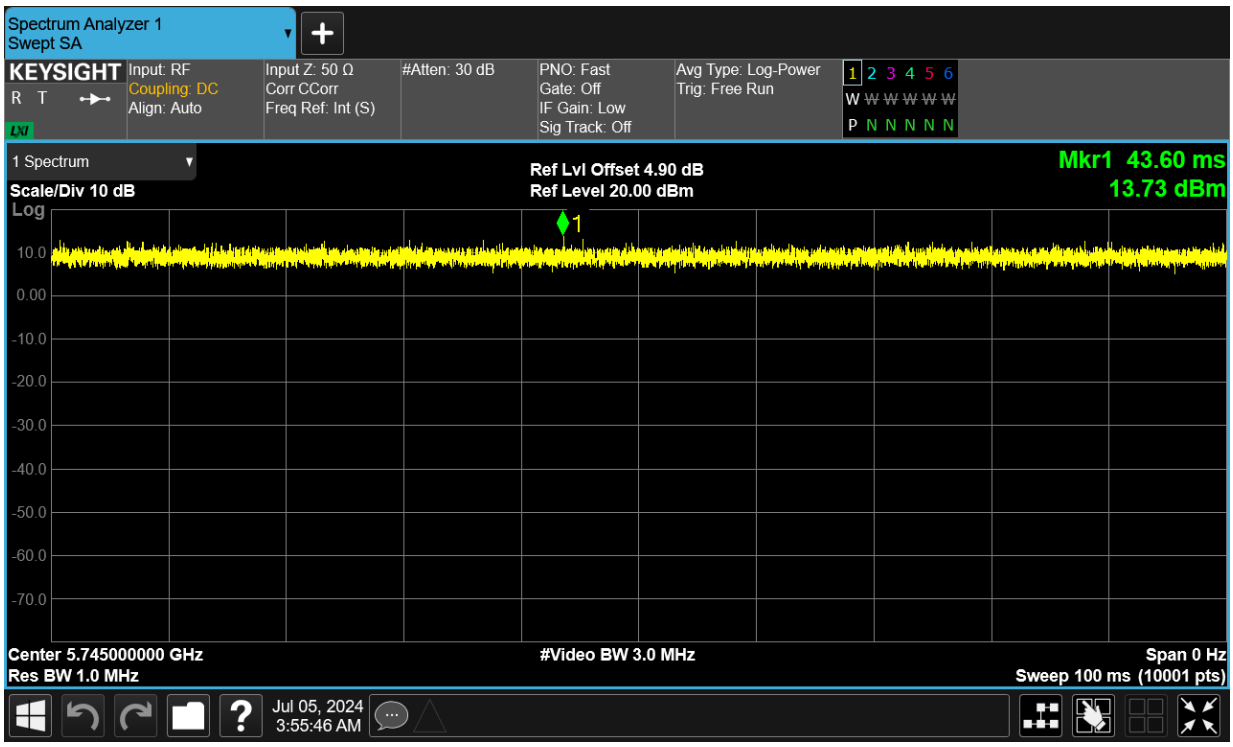

Duty Cycle NVNT a 5785MHz Ant1



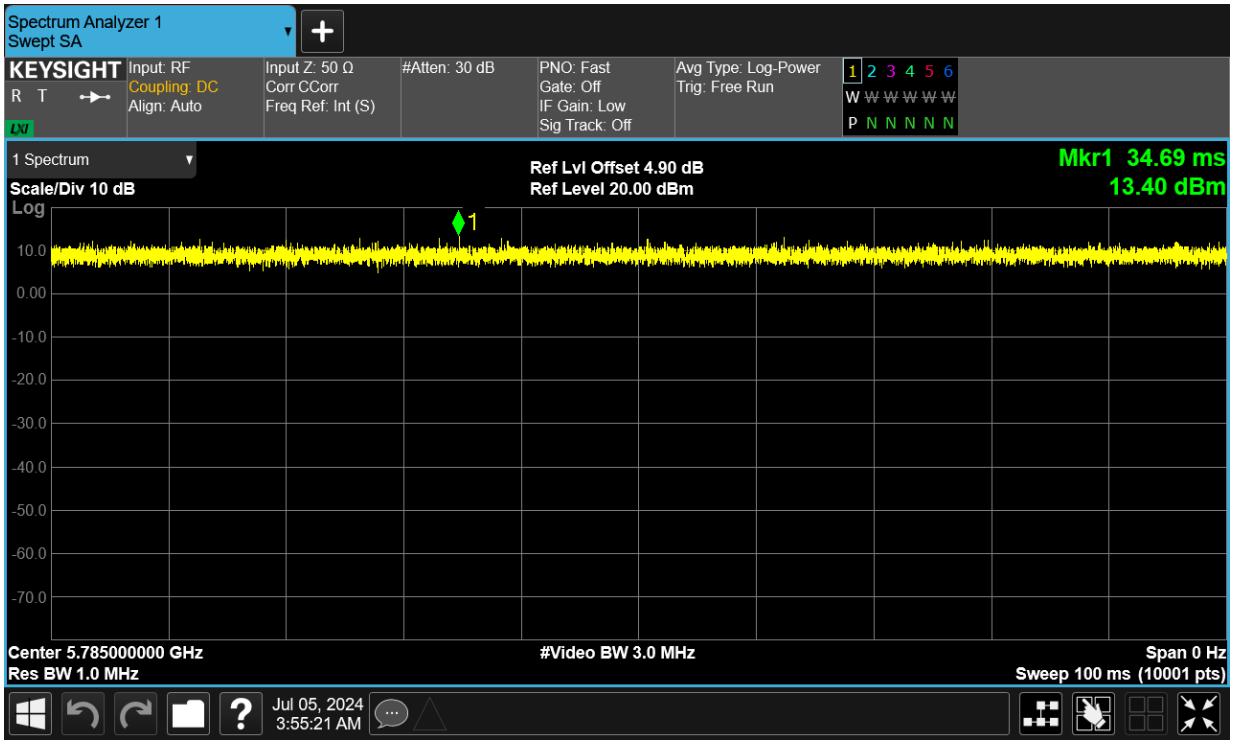

Duty Cycle NVNT a 5825MHz Ant1



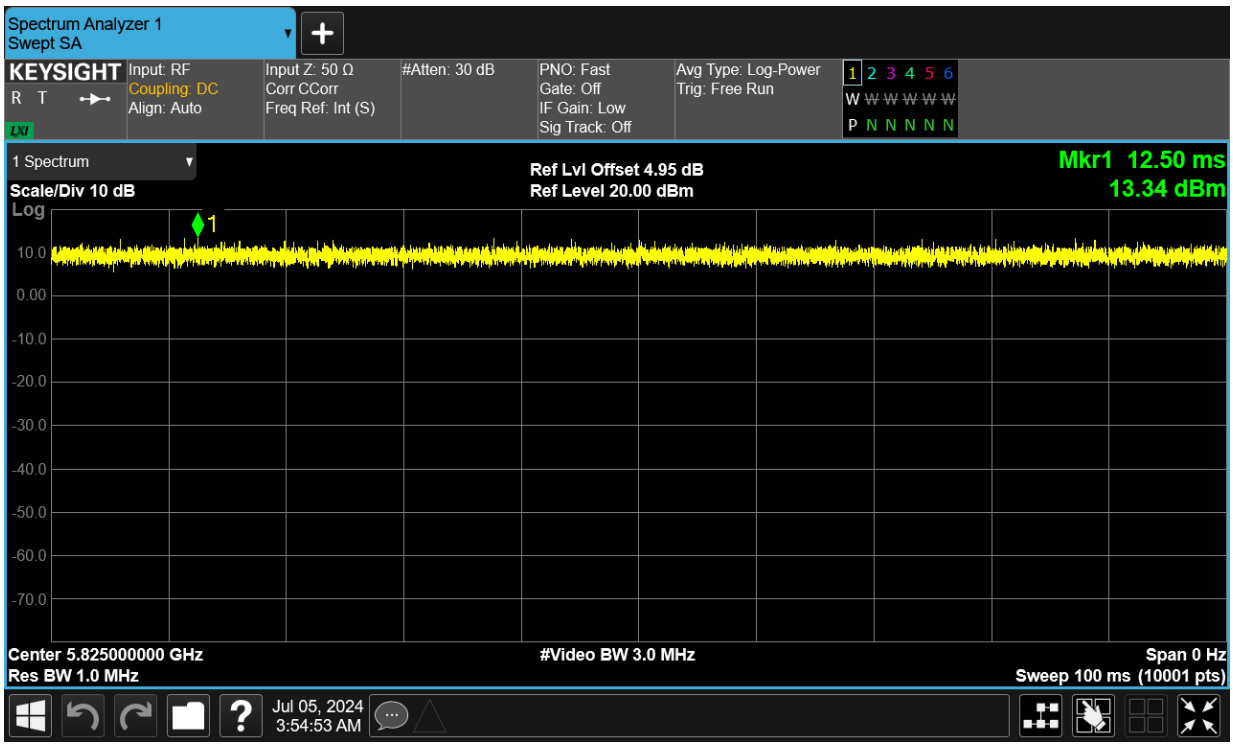

Duty Cycle NVNT ac20 5745MHz Ant1



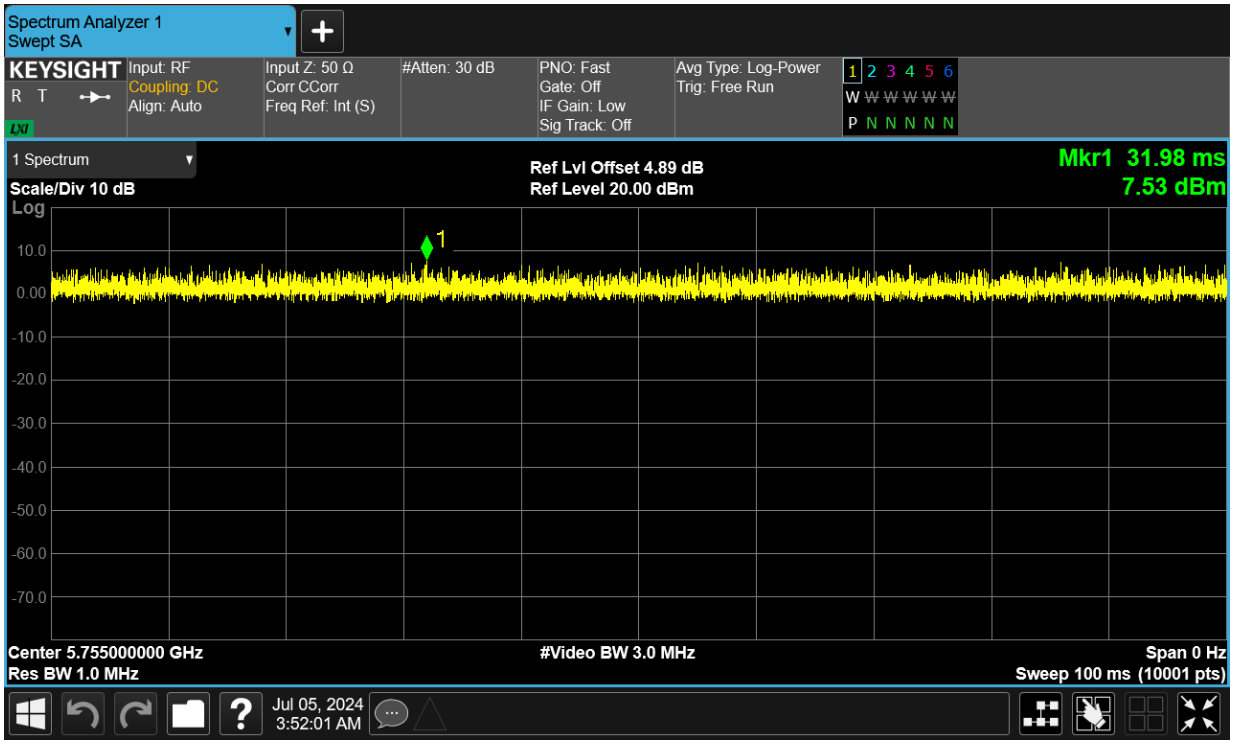

Duty Cycle NVNT ac20 5785MHz Ant1



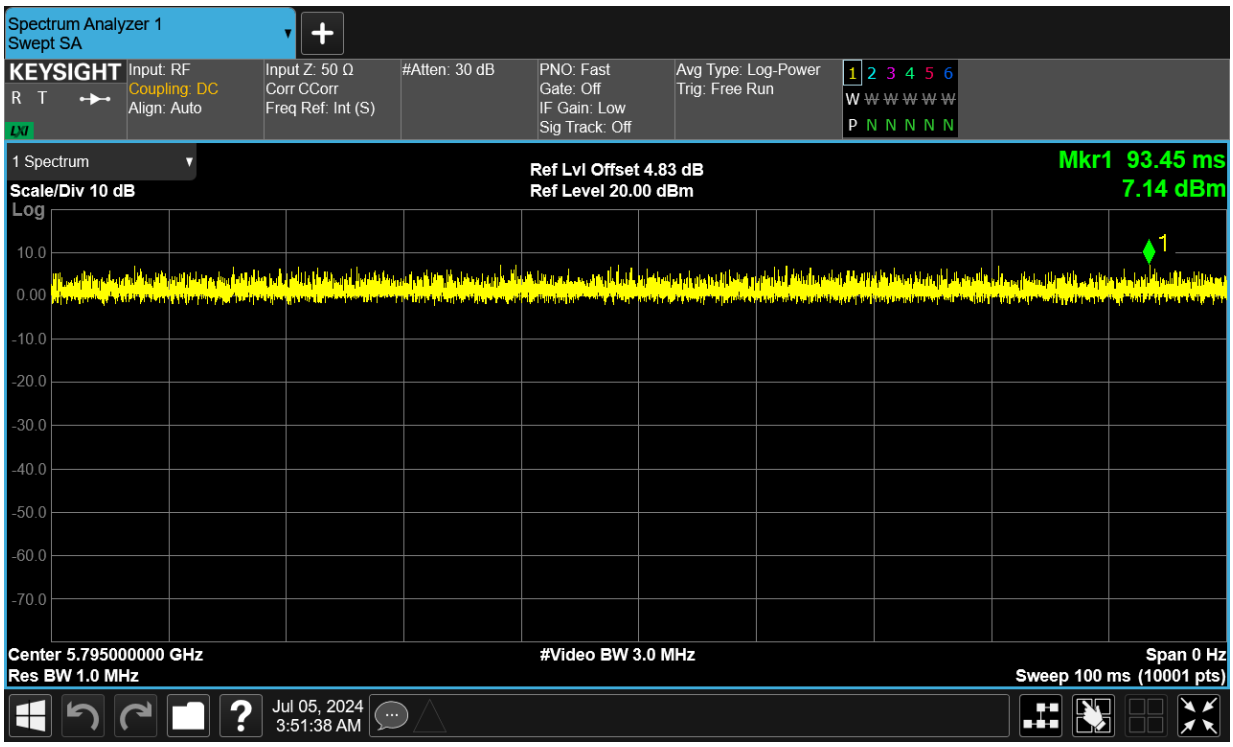

Duty Cycle NVNT ac20 5825MHz Ant1



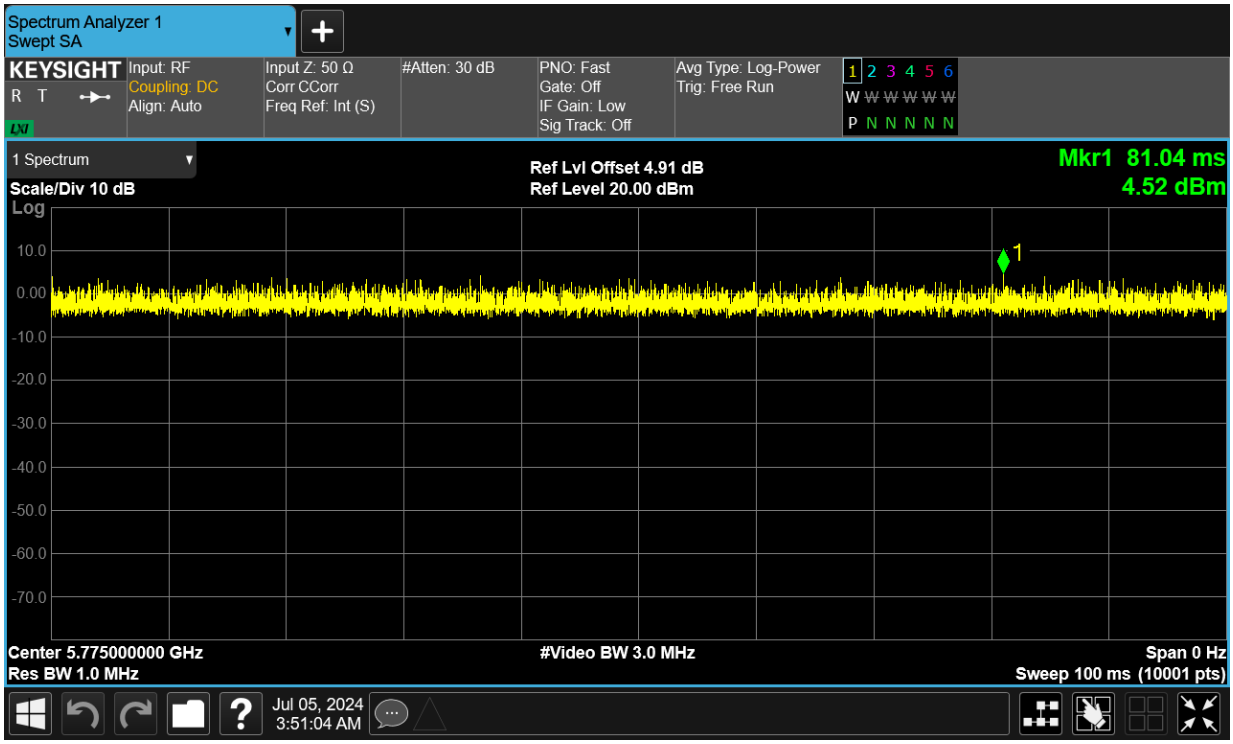

Duty Cycle NVNT ac40 5755MHz Ant1



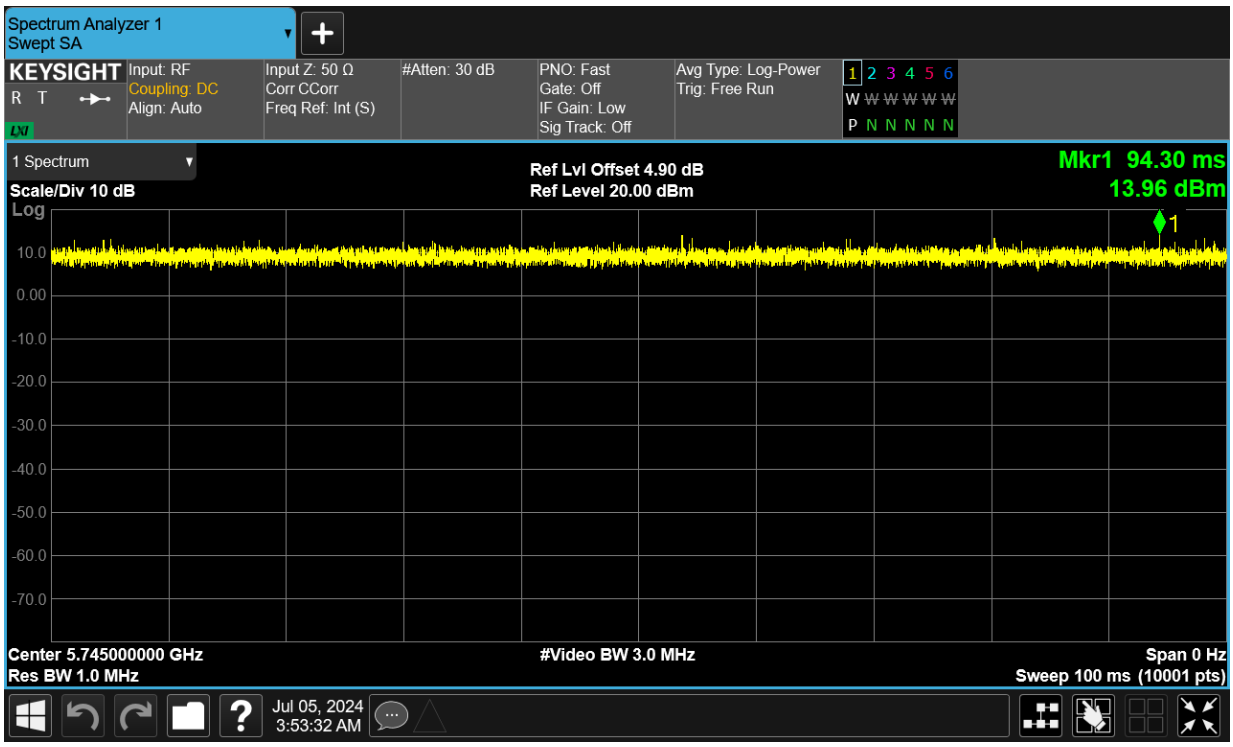

Duty Cycle NVNT ac40 5795MHz Ant1



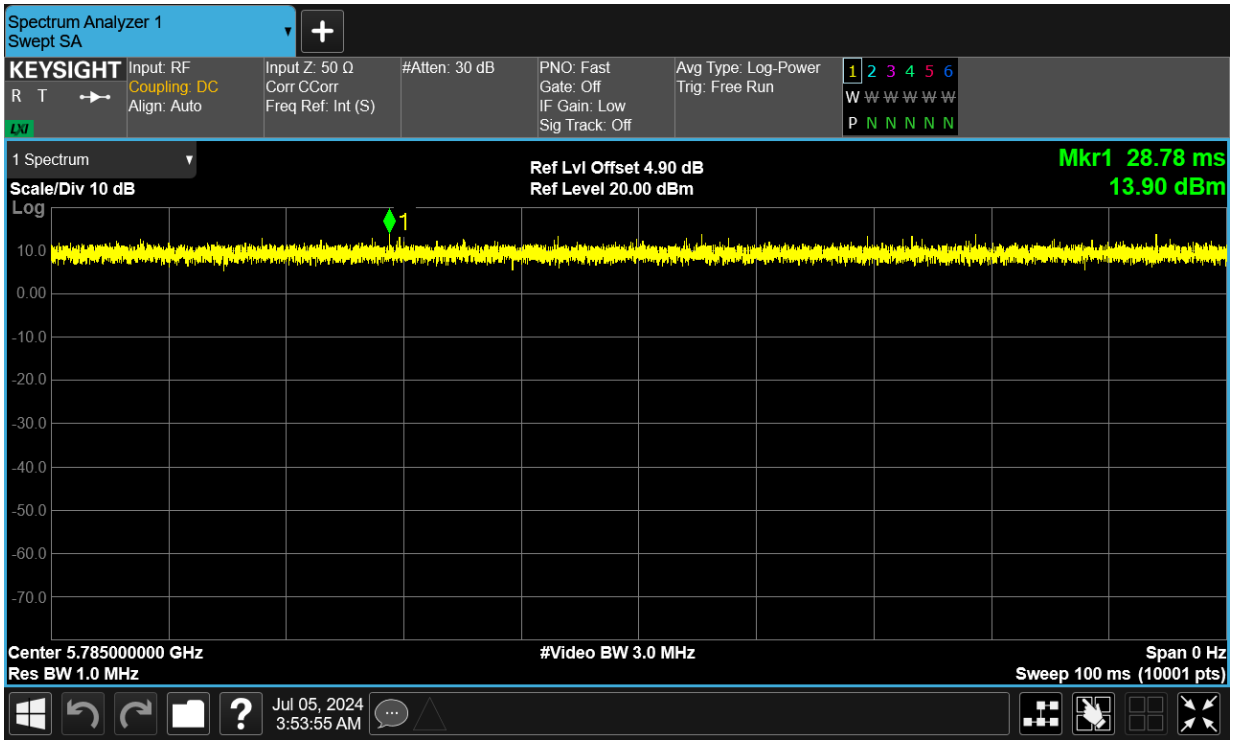

Duty Cycle NVNT ac80 5775MHz Ant1



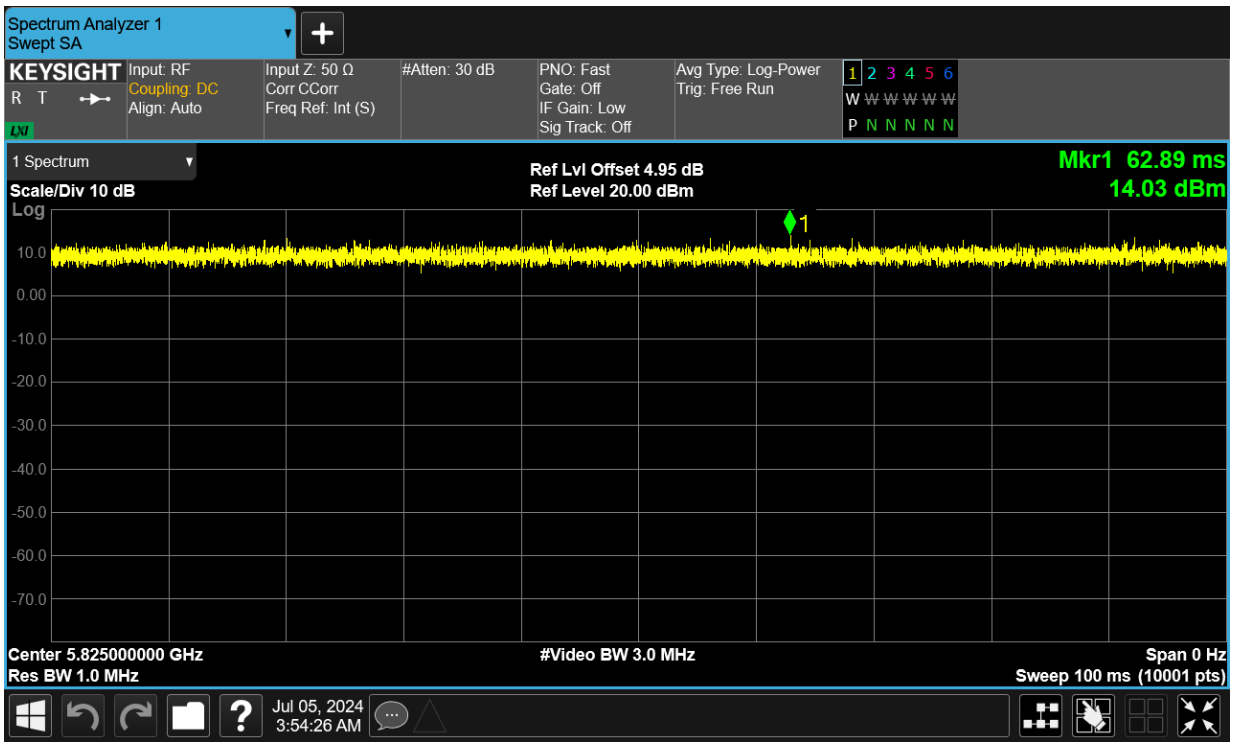

Duty Cycle NVNT n20 5745MHz Ant1



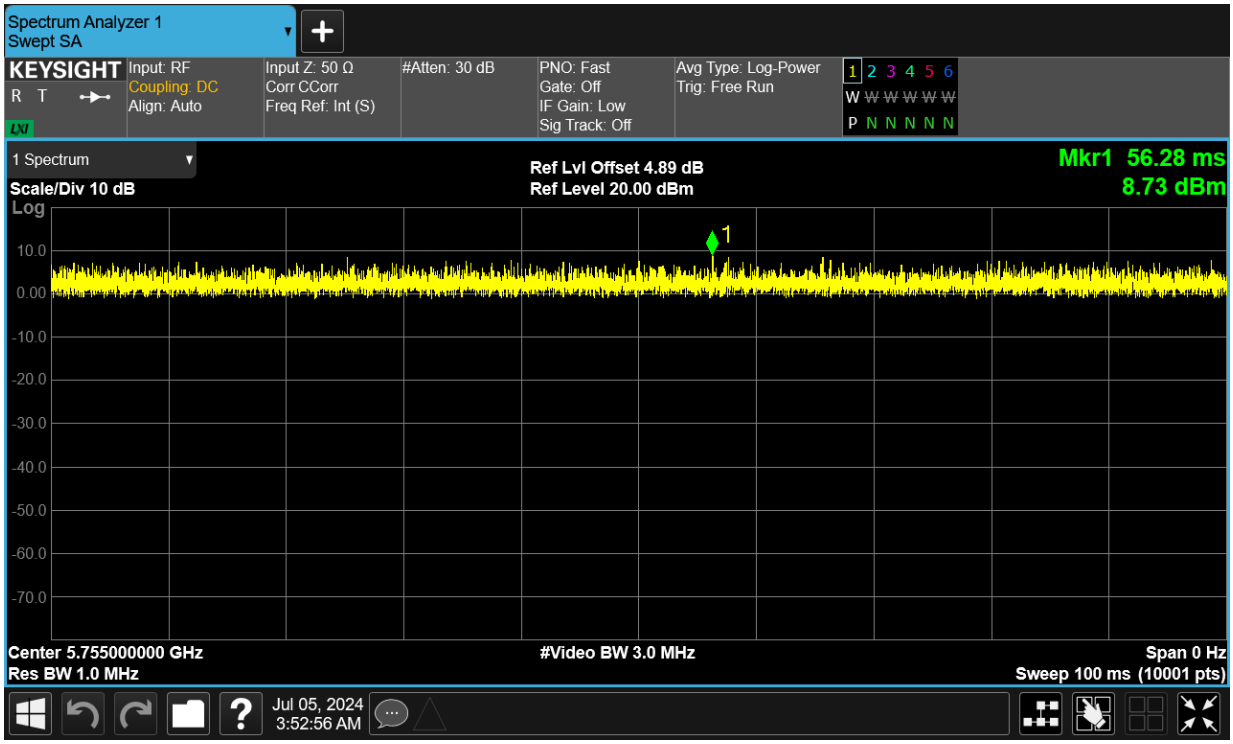

Duty Cycle NVNT n20 5785MHz Ant1



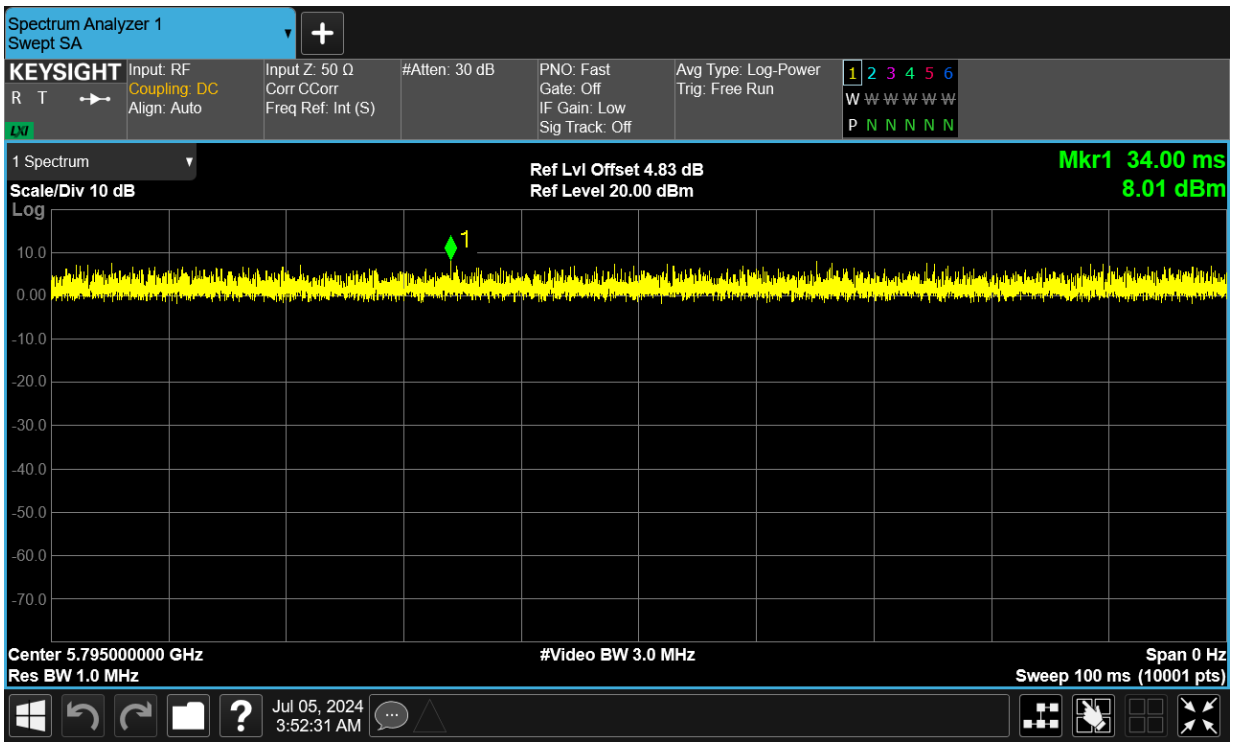

Duty Cycle NVNT n20 5825MHz Ant1




Duty Cycle NVNT n40 5755MHz Ant1




Duty Cycle NVNT n40 5795MHz Ant1



# Maximum Conducted Output Power

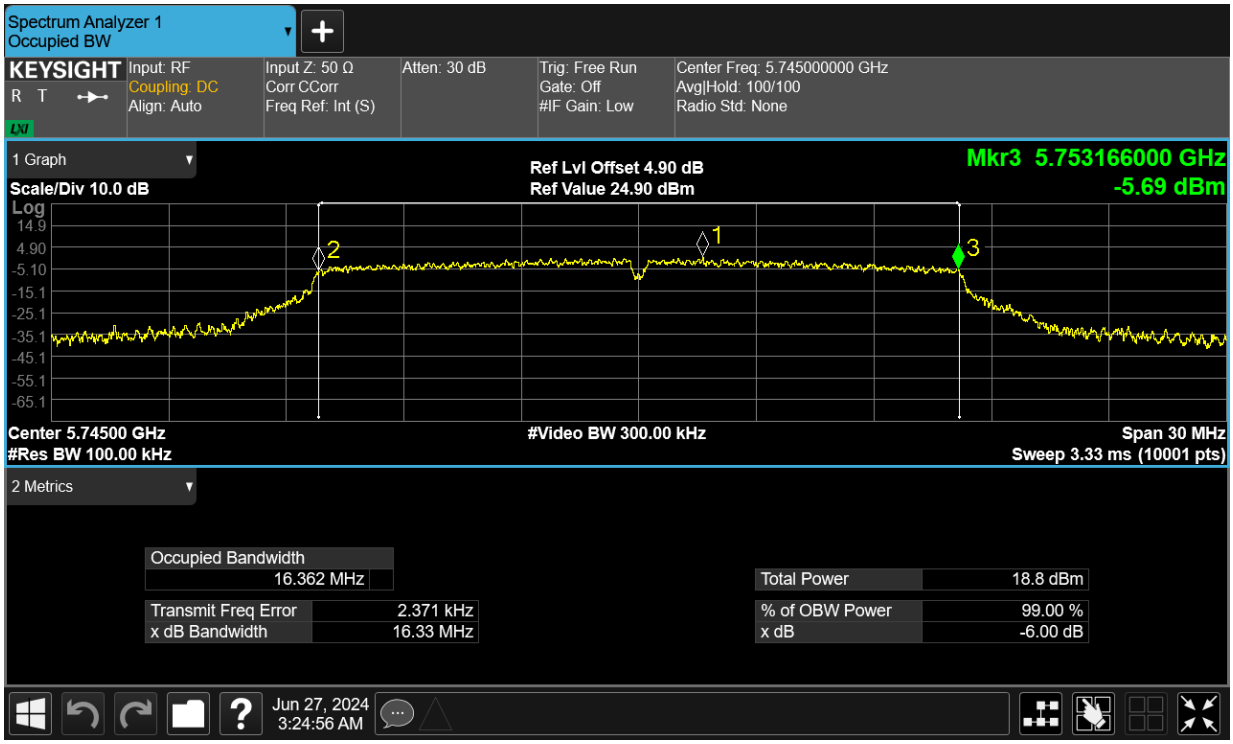
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | 16.95 | 0 | 16.95 | 30 | Pass |
| NVNT | a | 5785 | Ant1 | 16.94 | 0 | 16.94 | 30 | Pass |
| NVNT | a | 5825 | Ant1 | 17.54 | 0 | 17.54 | 30 | Pass |
| NVNT | ac20 | 5745 | Ant1 | 15.8 | 0 | 15.8 | 30 | Pass |
| NVNT | ac20 | 5785 | Ant1 | 15.78 | 0 | 15.78 | 30 | Pass |
| NVNT | ac20 | 5825 | Ant1 | 16.41 | 0 | 16.41 | 30 | Pass |
| NVNT | ac40 | 5755 | Ant1 | 14.88 | 0 | 14.88 | 30 | Pass |
| NVNT | ac40 | 5795 | Ant1 | 14.96 | 0 | 14.96 | 30 | Pass |
| NVNT | ac80 | 5775 | Ant1 | 14.36 | 0 | 14.36 | 30 | Pass |
| NVNT | n20 | 5745 | Ant1 | 15.86 | 0 | 15.86 | 30 | Pass |
| NVNT | n20 | 5785 | Ant1 | 16.06 | 0 | 16.06 | 30 | Pass |
| NVNT | n20 | 5825 | Ant1 | 16.39 | 0 | 16.39 | 30 | Pass |
| NVNT | n40 | 5755 | Ant1 | 15.76 | 0 | 15.76 | 30 | Pass |
| NVNT | n40 | 5795 | Ant1 | 15.51 | 0 | 15.51 | 30 | Pass |

# -6dB Bandwidth

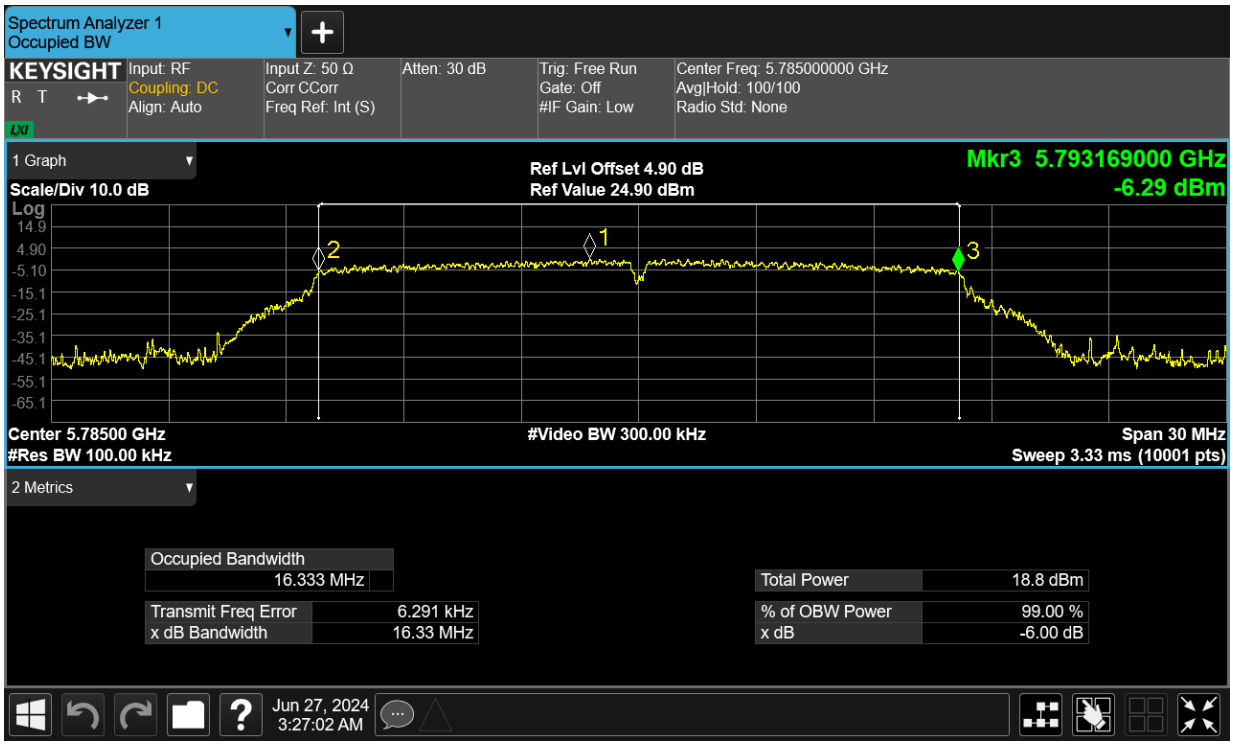
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | limit | Verdic |
|---|---|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | 16.328 | 0.5 | Pass |
| NVNT | a | 5785 | Ant1 | 16.326 | 0.5 | Pass |
| NVNT | a | 5825 | Ant1 | 16.318 | 0.5 | Pass |
| NVNT | ac20 | 5745 | Ant1 | 17.564 | 0.5 | Pass |
| NVNT | ac20 | 5785 | Ant1 | 17.557 | 0.5 | Pass |
| NVNT | ac20 | 5825 | Ant1 | 17.539 | 0.5 | Pass |
| NVNT | ac40 | 5755 | Ant1 | 36.297 | 0.5 | Pass |
| NVNT | ac40 | 5795 | Ant1 | 36.293 | 0.5 | Pass |
| NVNT | ac80 | 5775 | Ant1 | 76.302 | 0.5 | Pass |
| NVNT | n20 | 5745 | Ant1 | 17.577 | 0.5 | Pass |
| NVNT | n20 | 5785 | Ant1 | 17.562 | 0.5 | Pass |
| NVNT | n20 | 5825 | Ant1 | 17.587 | 0.5 | Pass |
| NVNT | n40 | 5755 | Ant1 | 35.54 | 0.5 | Pass |
| NVNT | n40 | 5795 | Ant1 | 36.064 | 0.5 | Pass |

Test Graphs

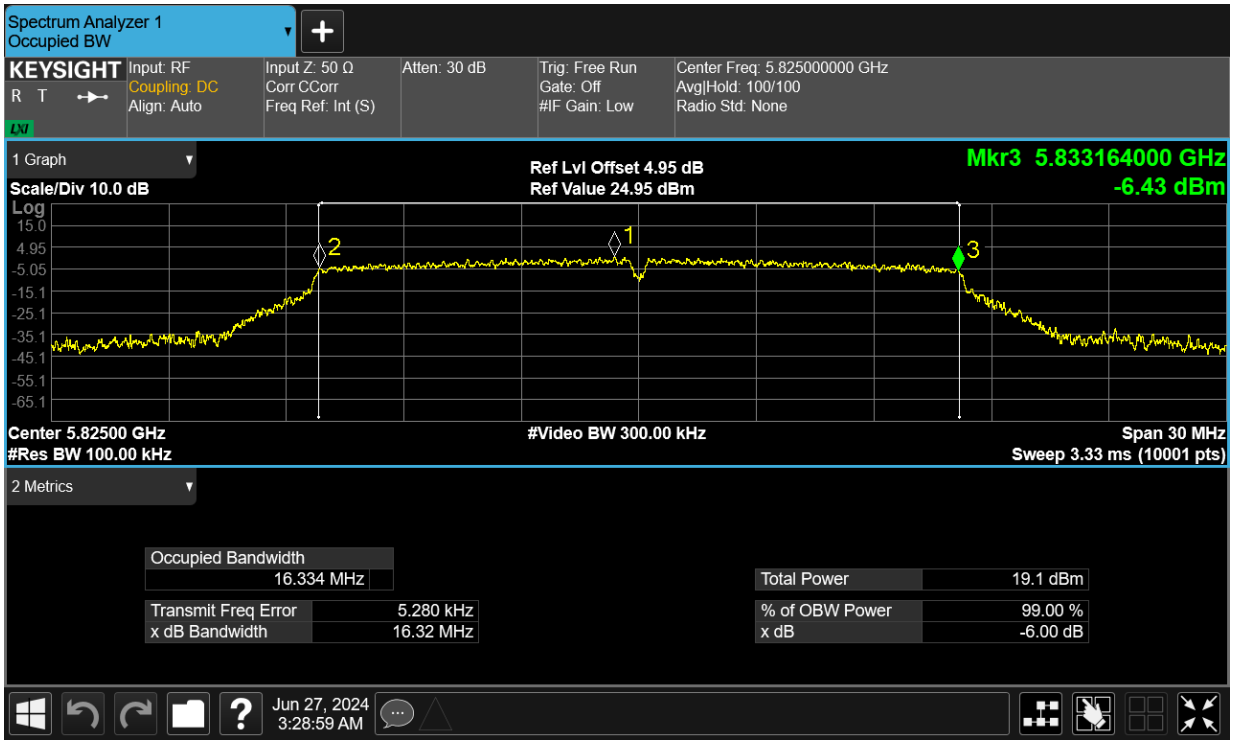
-6dB Bandwidth NVNT a 5745MHz Ant1



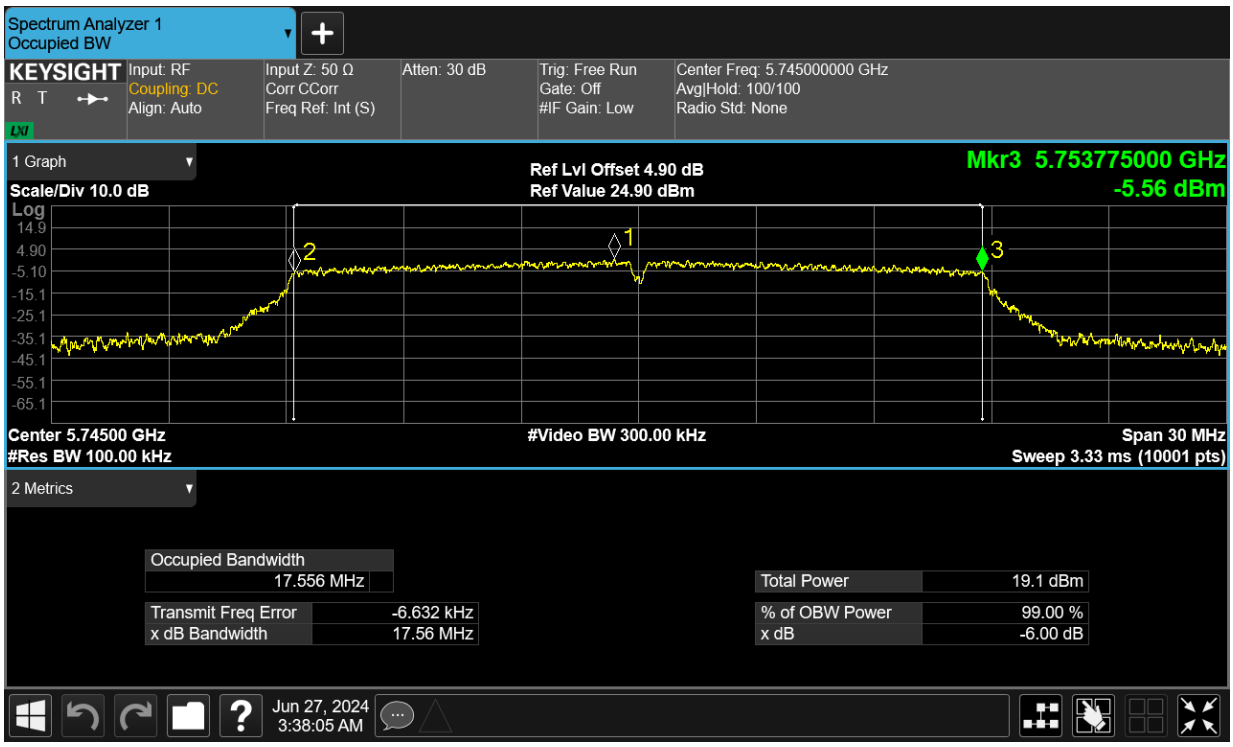

-6dB Bandwidth NVNT a 5785MHz Ant1



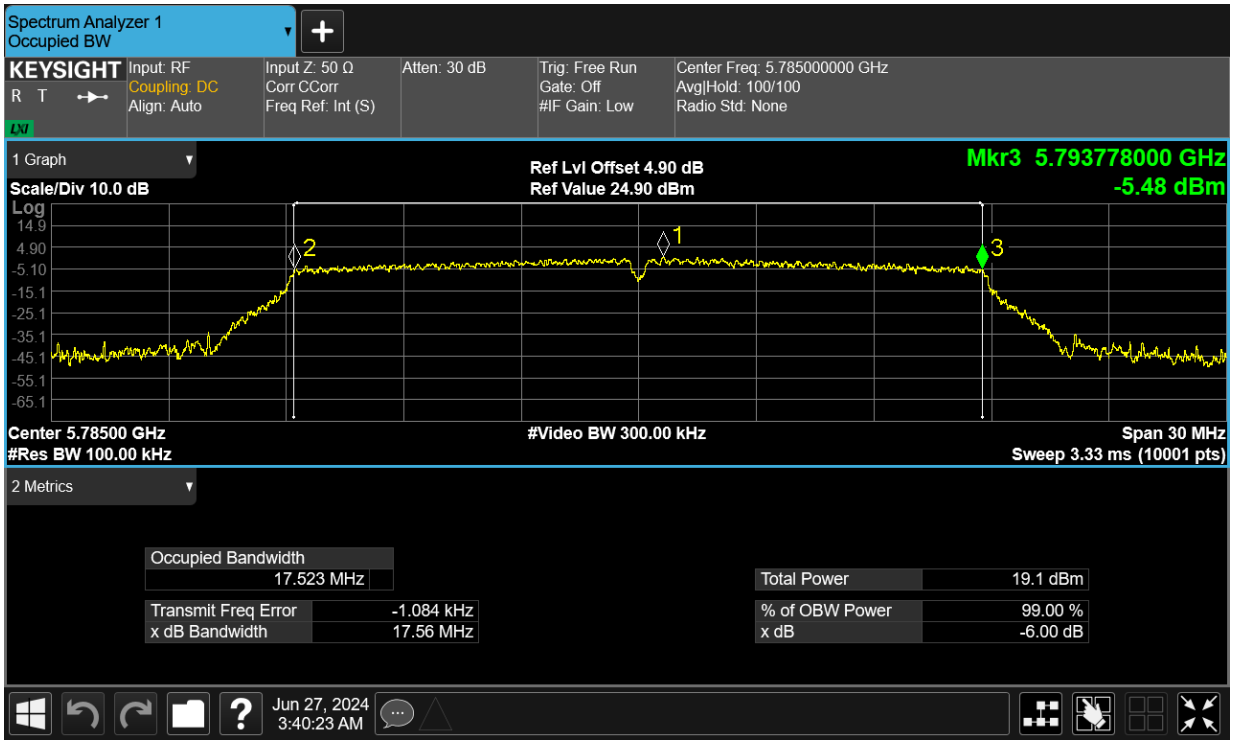

-6dB Bandwidth NVNT a 5825MHz Ant1



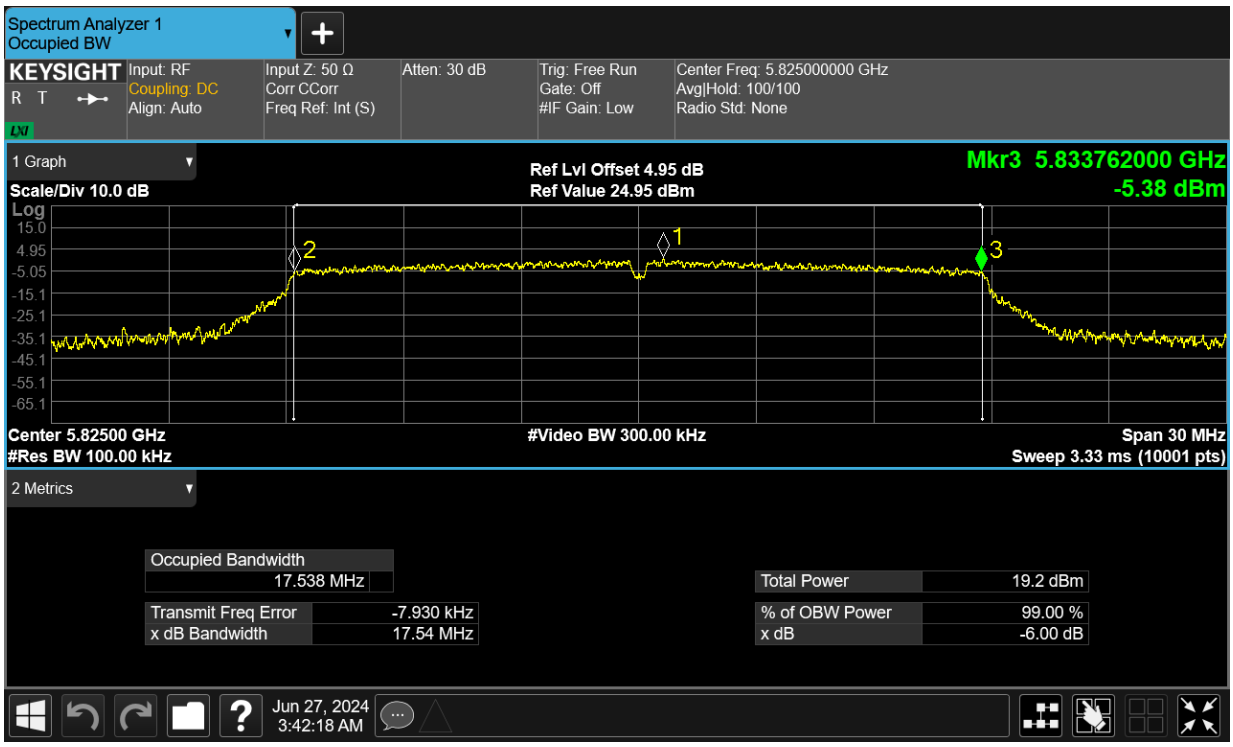

-6dB Bandwidth NVNT ac20 5745MHz Ant1




-6dB Bandwidth NVNT ac20 5785MHz Ant1




-6dB Bandwidth NVNT ac20 5825MHz Ant1

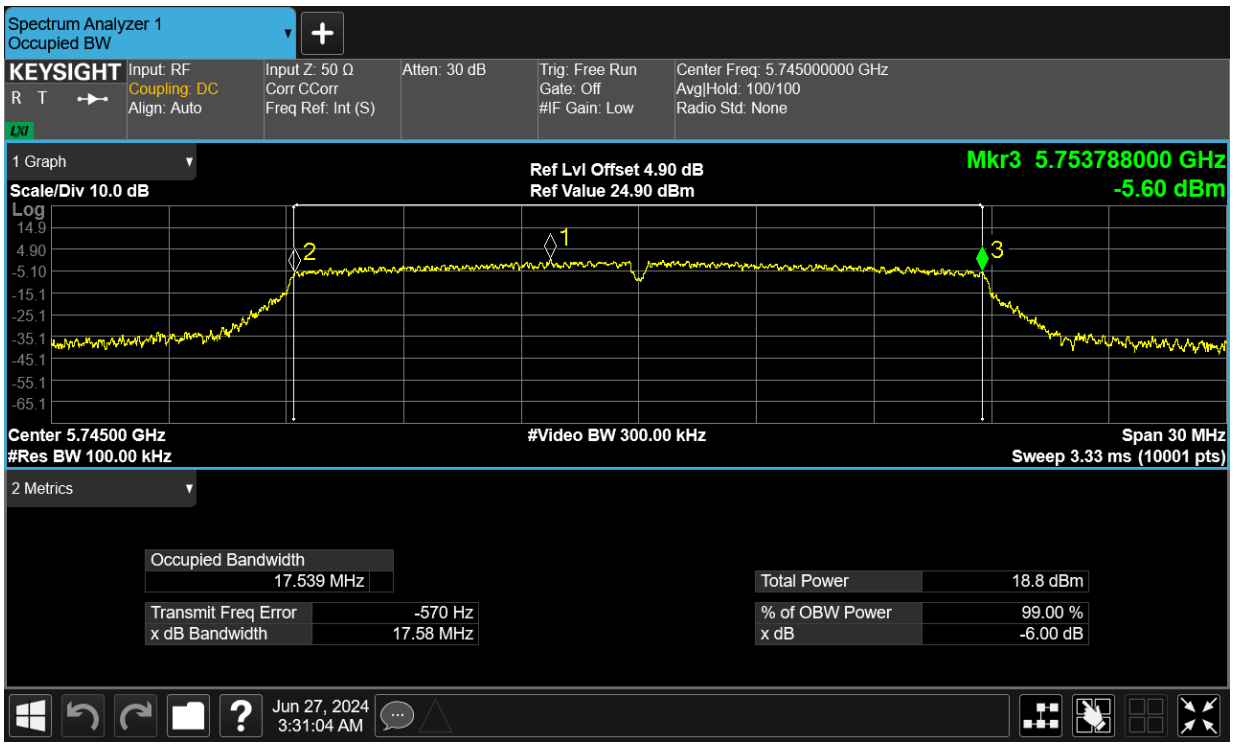



-6dB Bandwidth NVNT ac40 5755MHz Ant1

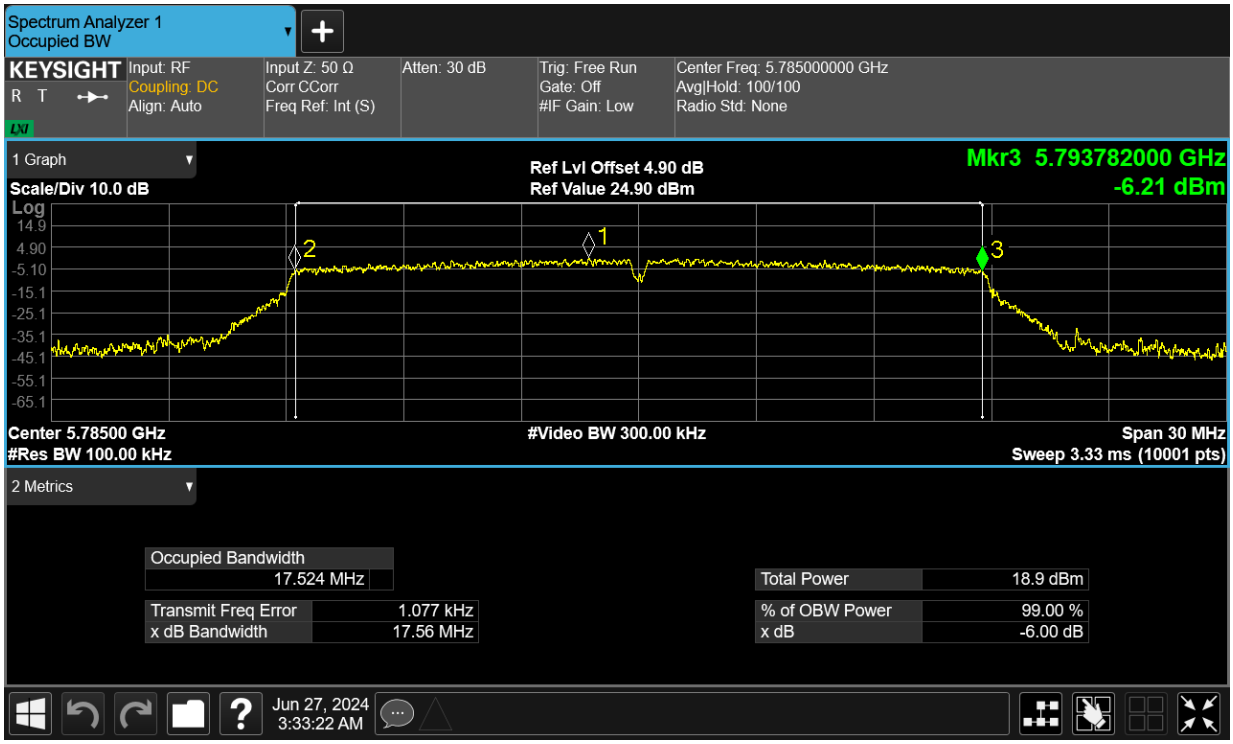
-6dB Bandwidth NVNT ac40 5795MHz Ant1

-6dB Bandwidth NVNT ac80 5775MHz Ant1

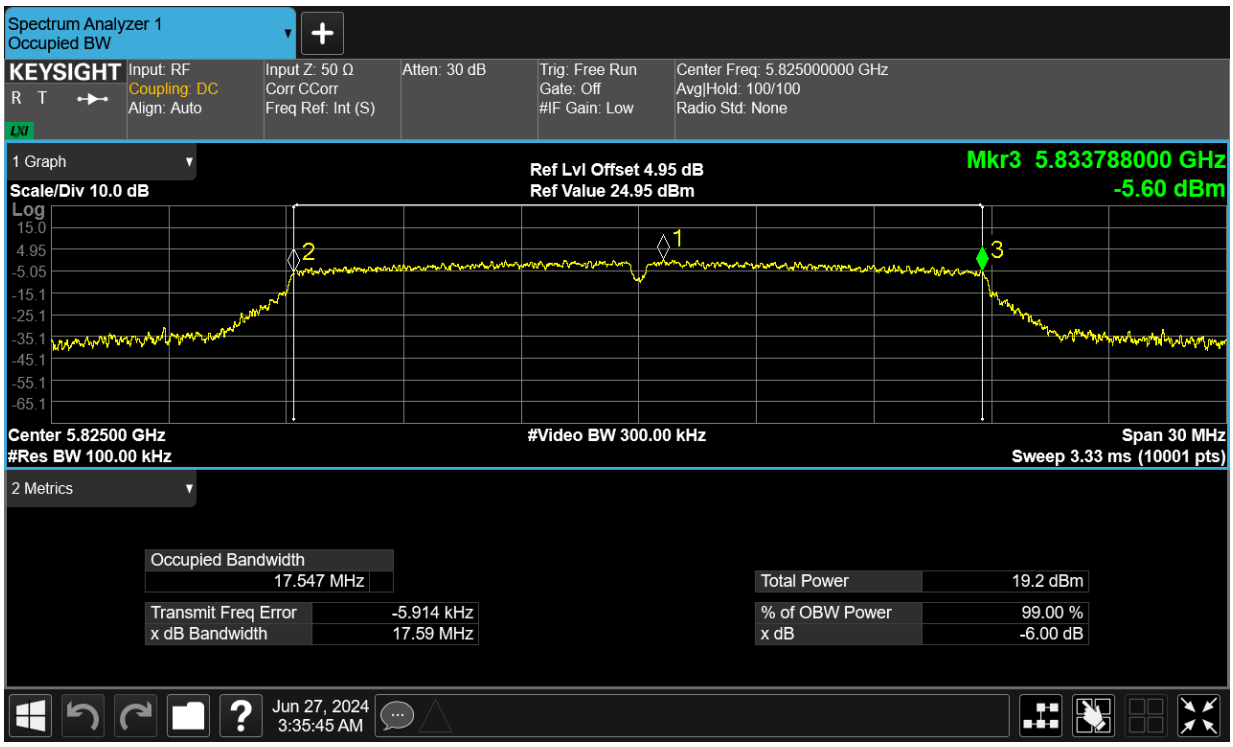
-6dB Bandwidth NVNT n20 5745MHz Ant1



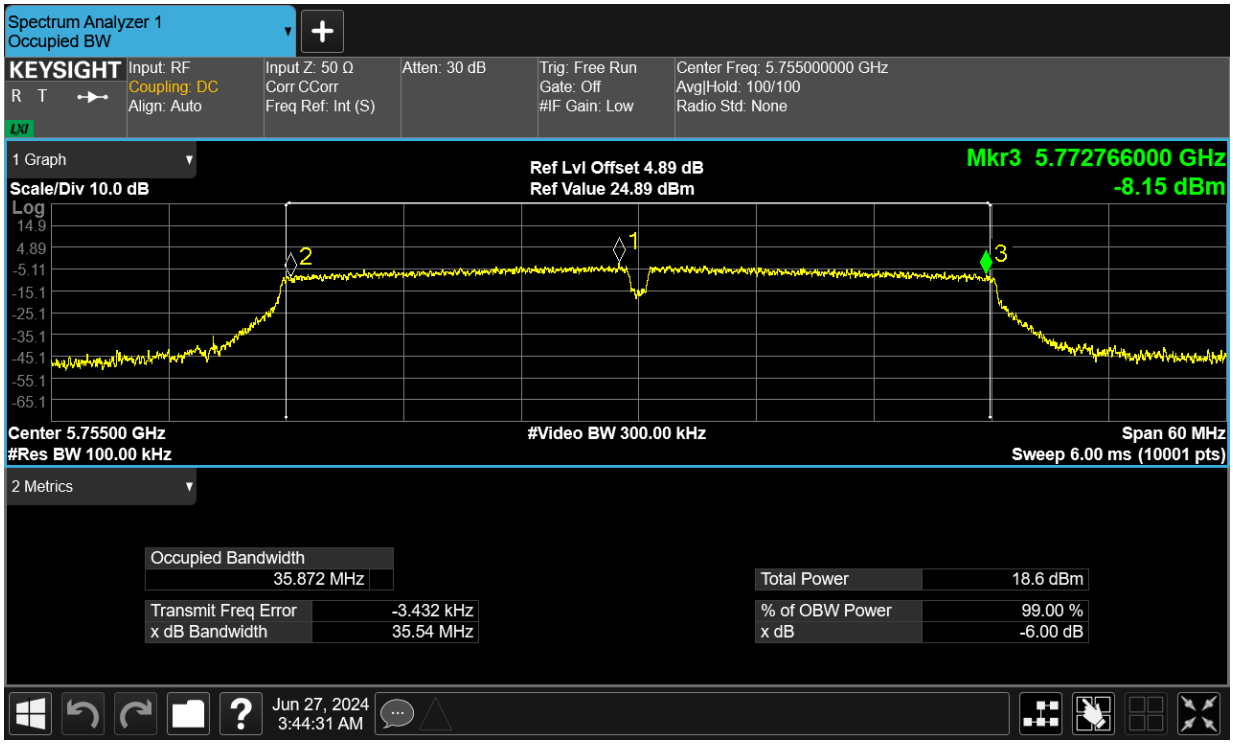

-6dB Bandwidth NVNT n20 5785MHz Ant1




-6dB Bandwidth NVNT n20 5825MHz Ant1




-6dB Bandwidth NVNT n40 5755MHz Ant1



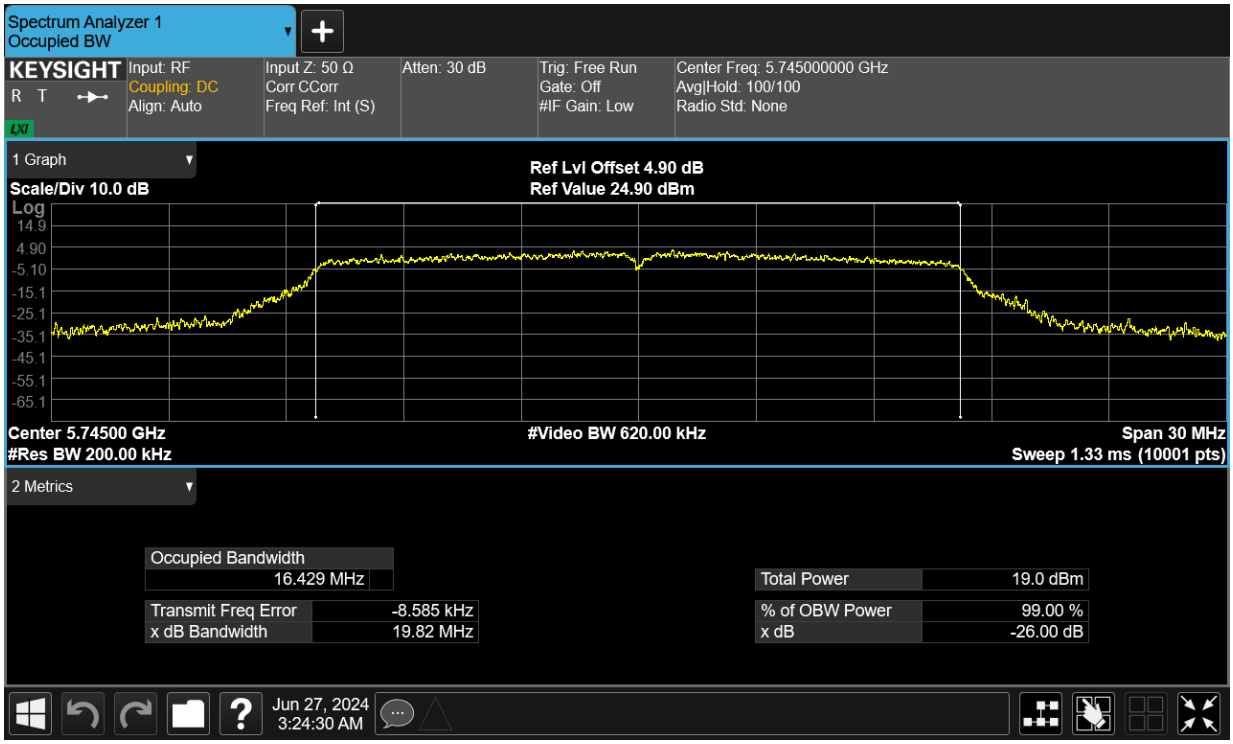

-6dB Bandwidth NVNT n40 5795MHz Ant1

# Occupied Channel Bandwidth

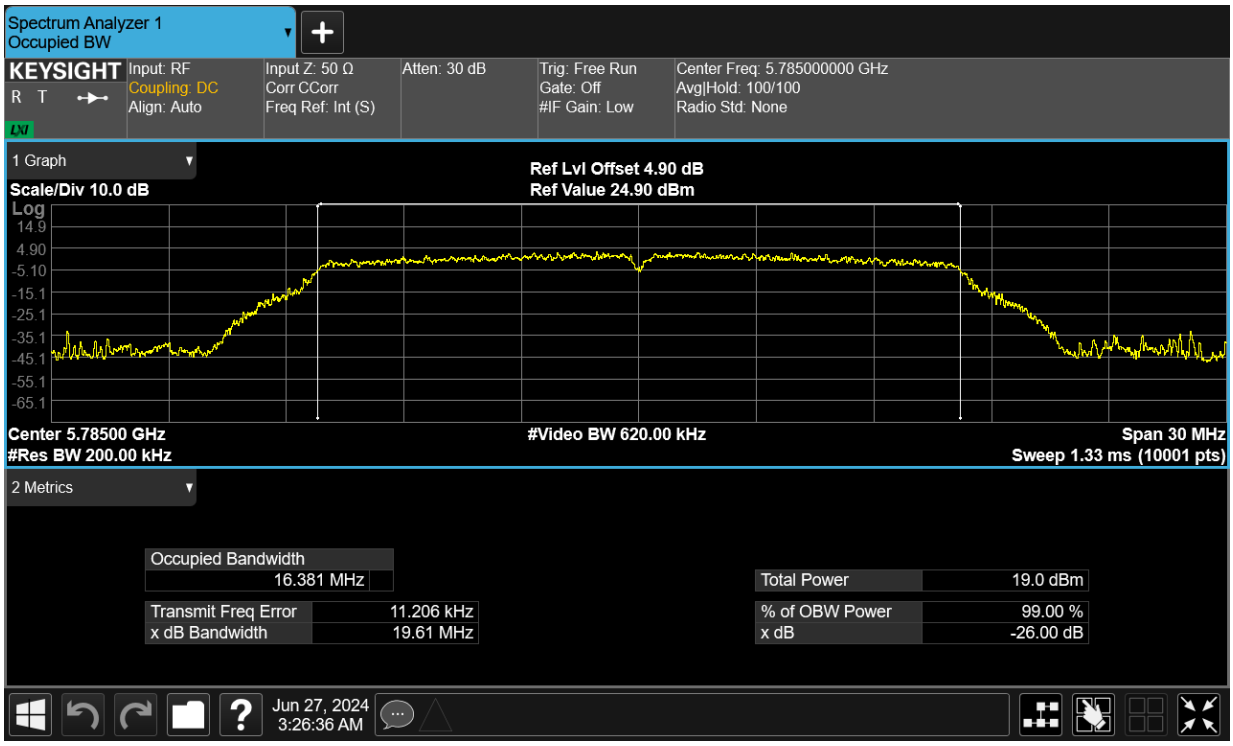
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | 16.429 |
| NVNT | a | 5785 | Ant1 | 16.381 |
| NVNT | a | 5825 | Ant1 | 16.38 |
| NVNT | ac20 | 5745 | Ant1 | 17.574 |
| NVNT | ac20 | 5785 | Ant1 | 17.55 |
| NVNT | ac20 | 5825 | Ant1 | 17.57 |
| NVNT | ac40 | 5755 | Ant1 | 35.972 |
| NVNT | ac40 | 5795 | Ant1 | 35.958 |
| NVNT | ac80 | 5775 | Ant1 | 75.196 |
| NVNT | n20 | 5745 | Ant1 | 17.549 |
| NVNT | n20 | 5785 | Ant1 | 17.562 |
| NVNT | n20 | 5825 | Ant1 | 17.54 |
| NVNT | n40 | 5755 | Ant1 | 35.99 |
| NVNT | n40 | 5795 | Ant1 | 35.99 |

Test Graphs

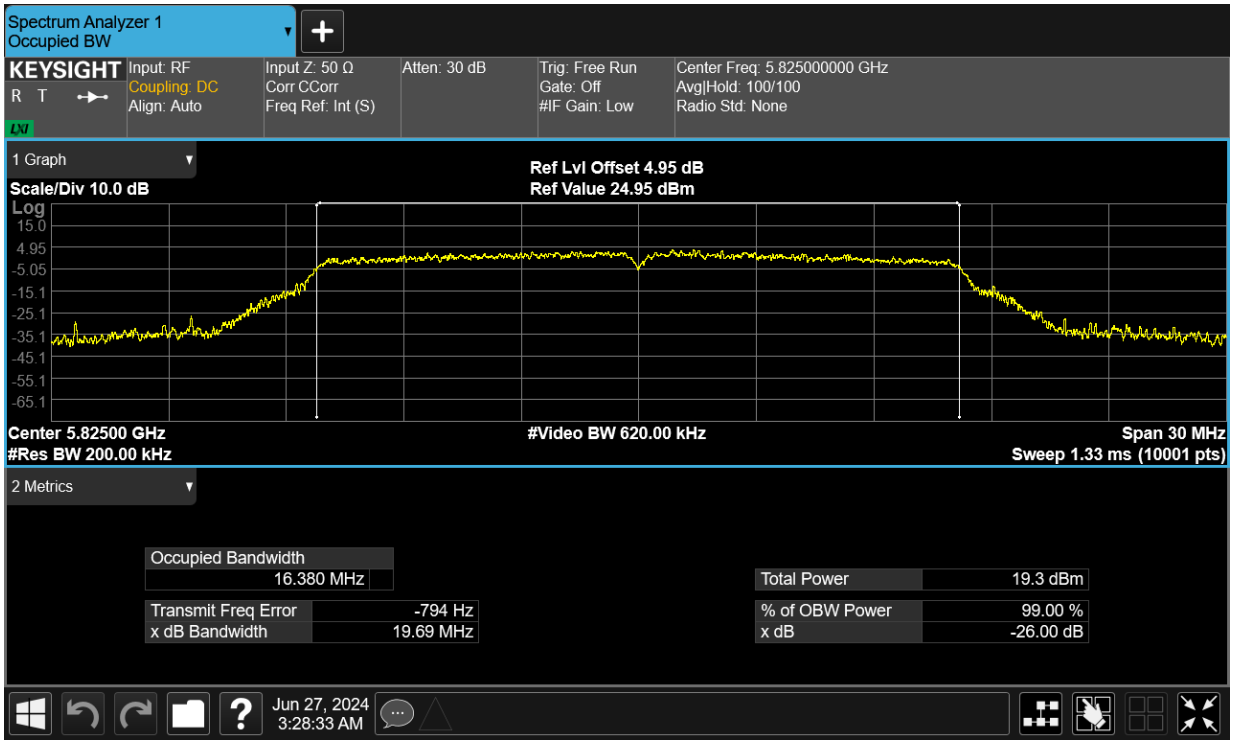
OBW NVNT a 5745MHz Ant1



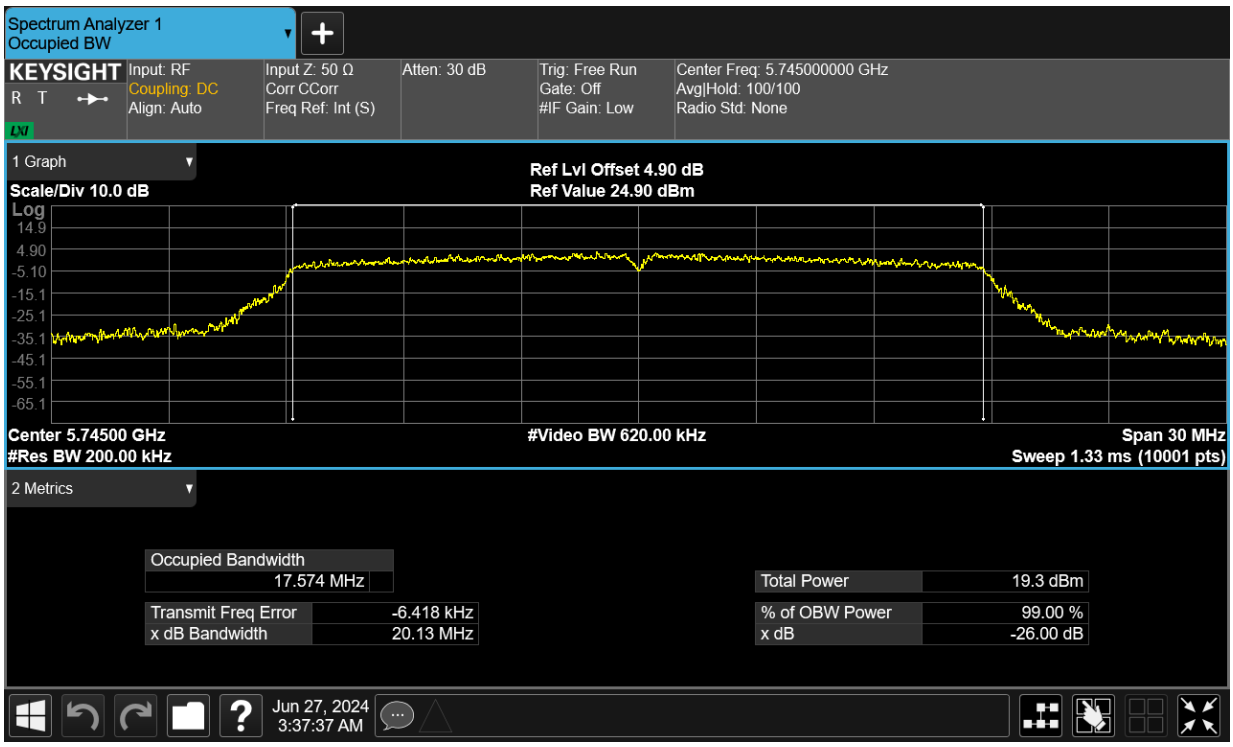

OBW NVNT a 5785MHz Ant1



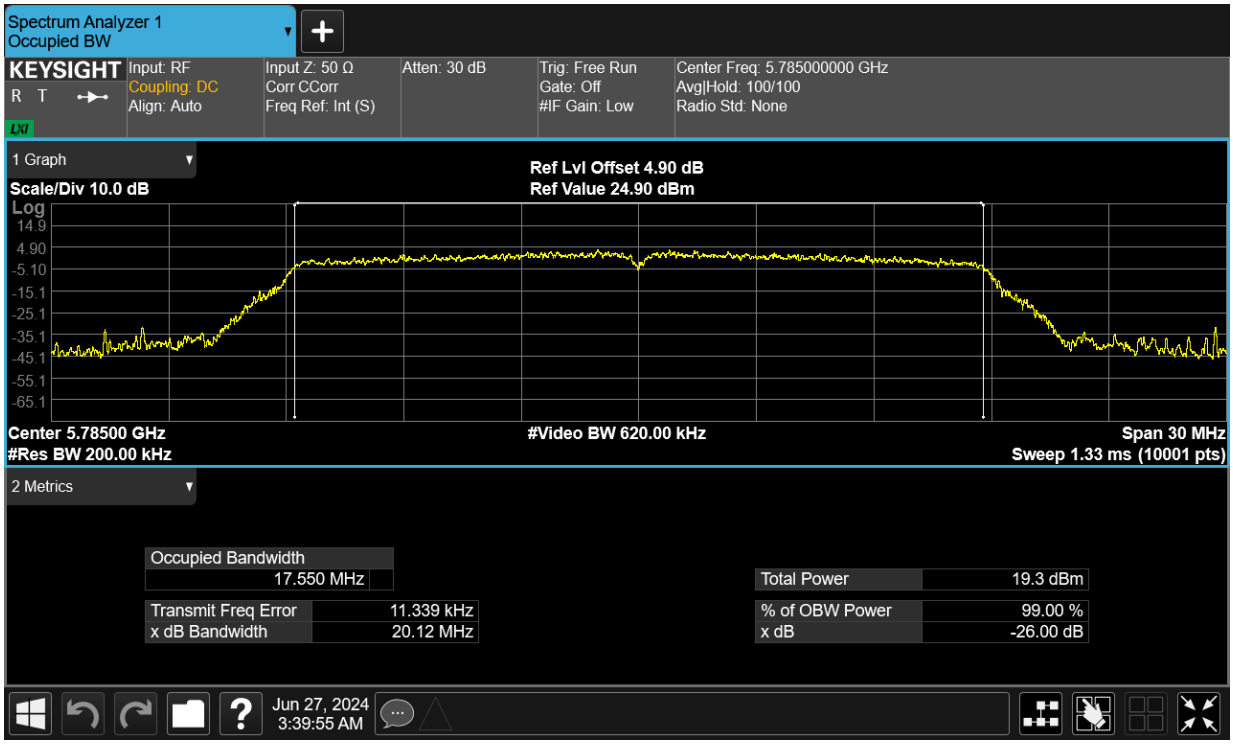

OBW NVNT a 5825MHz Ant1



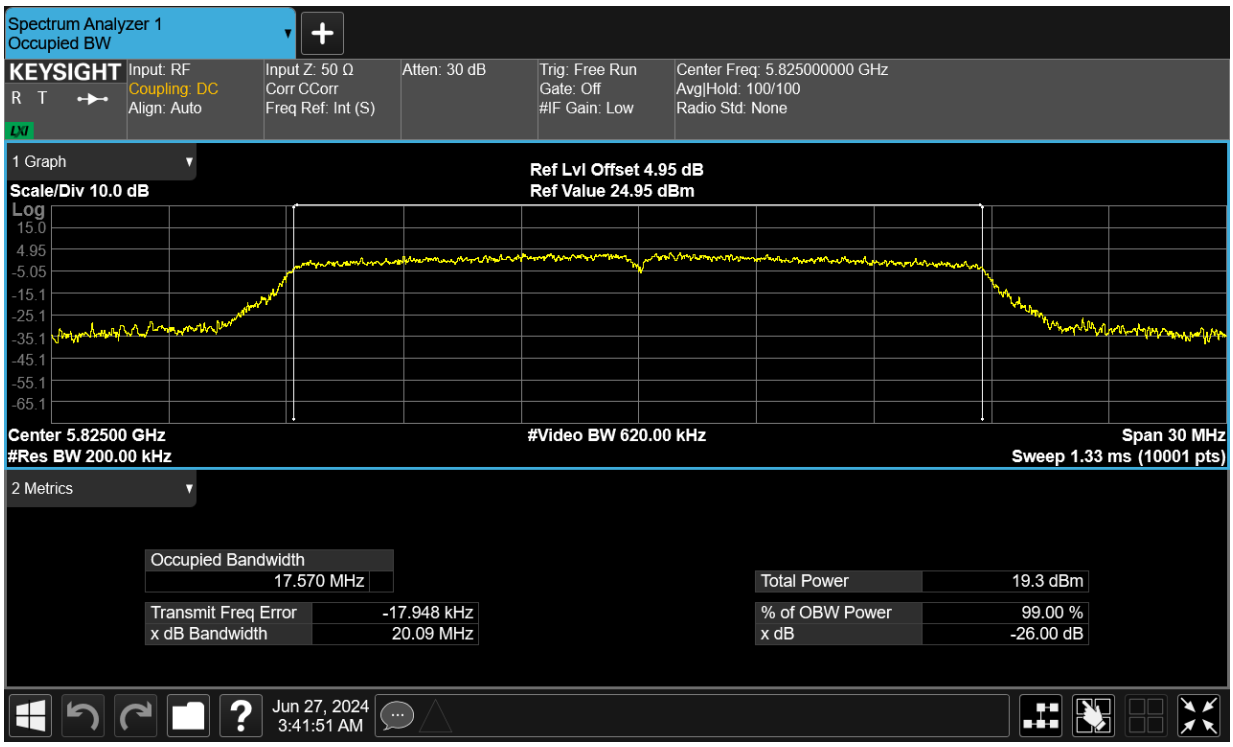

OBW NVNT ac20 5745MHz Ant1



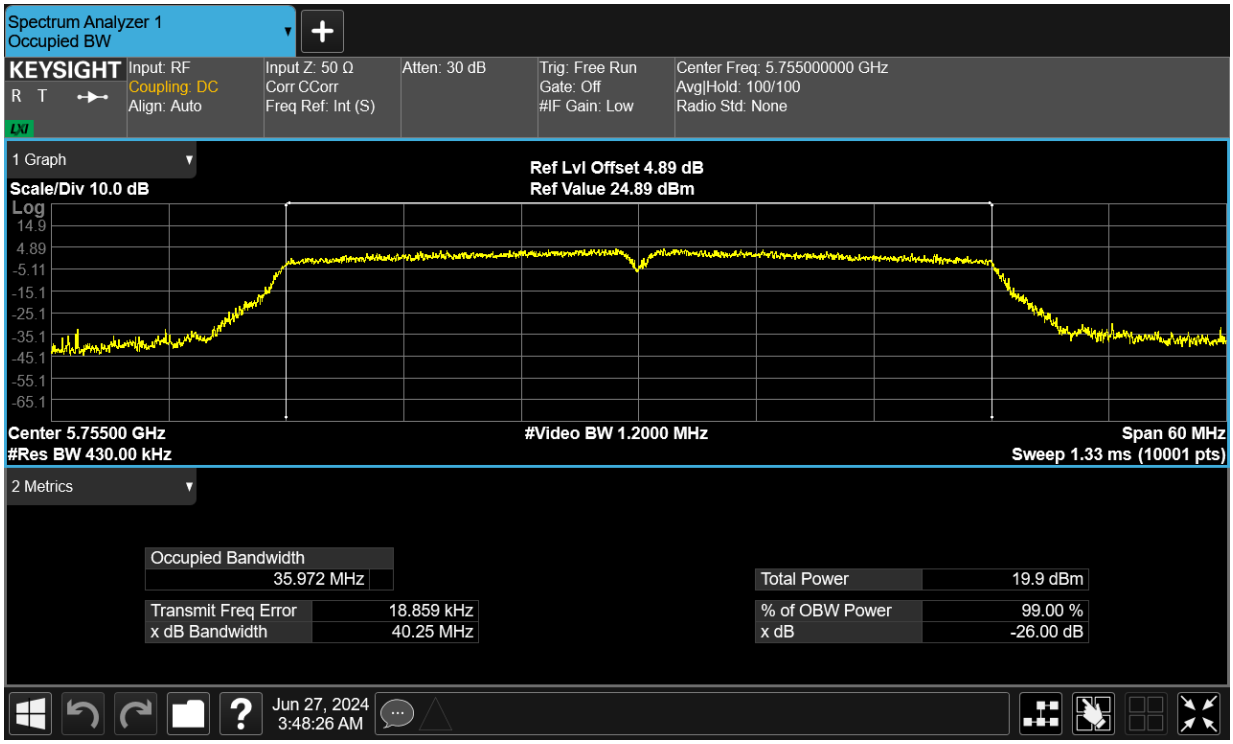

OBW NVNT ac20 5785MHz Ant1



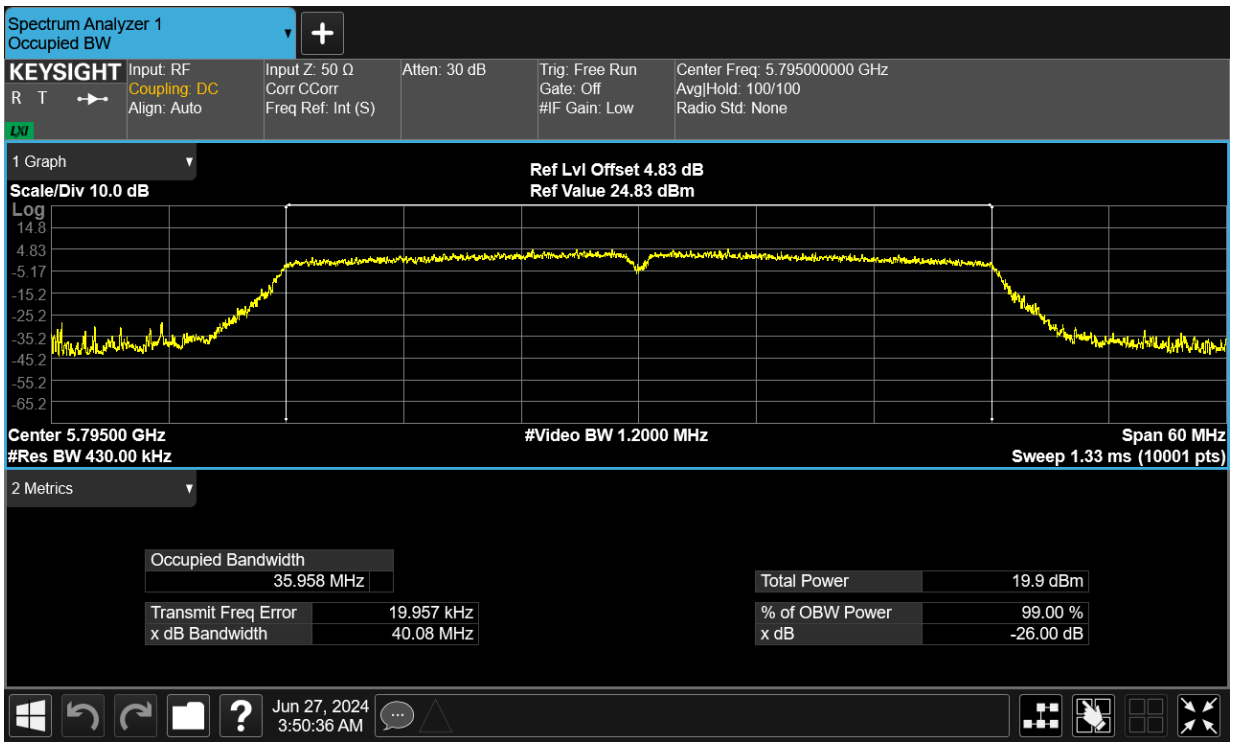

OBW NVNT ac20 5825MHz Ant1



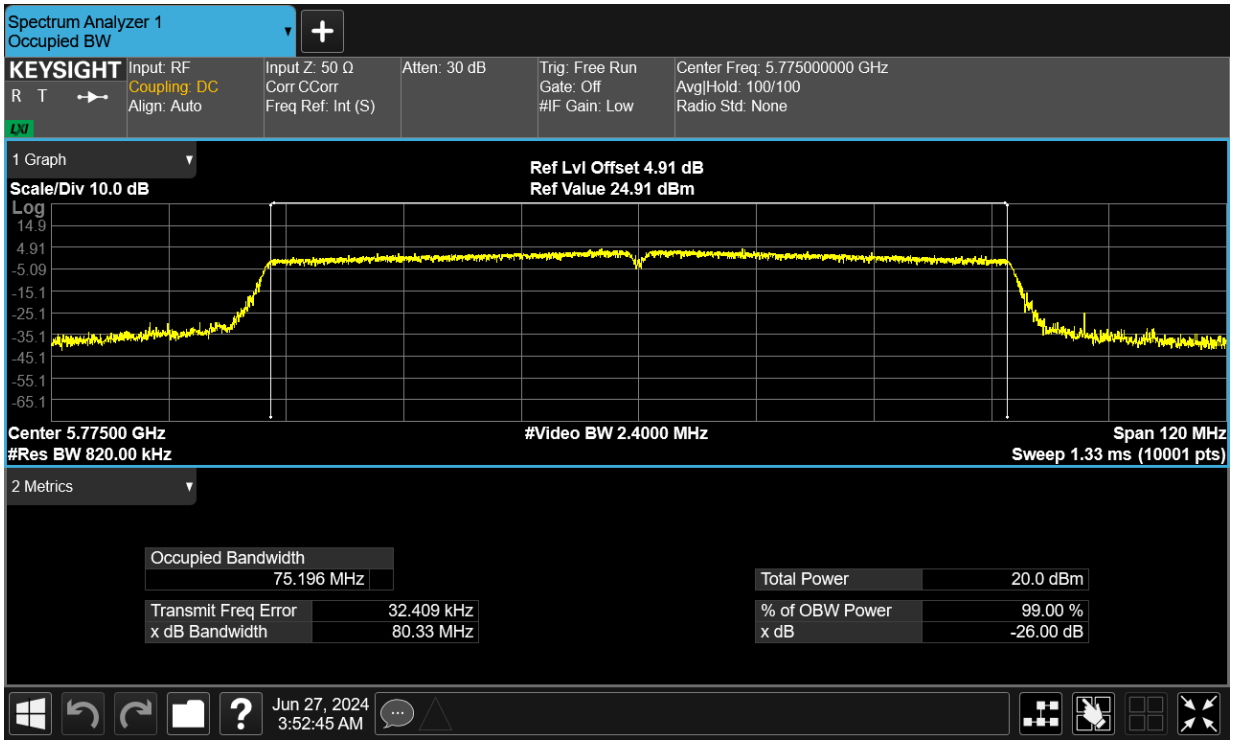

OBW NVNT ac40 5755MHz Ant1



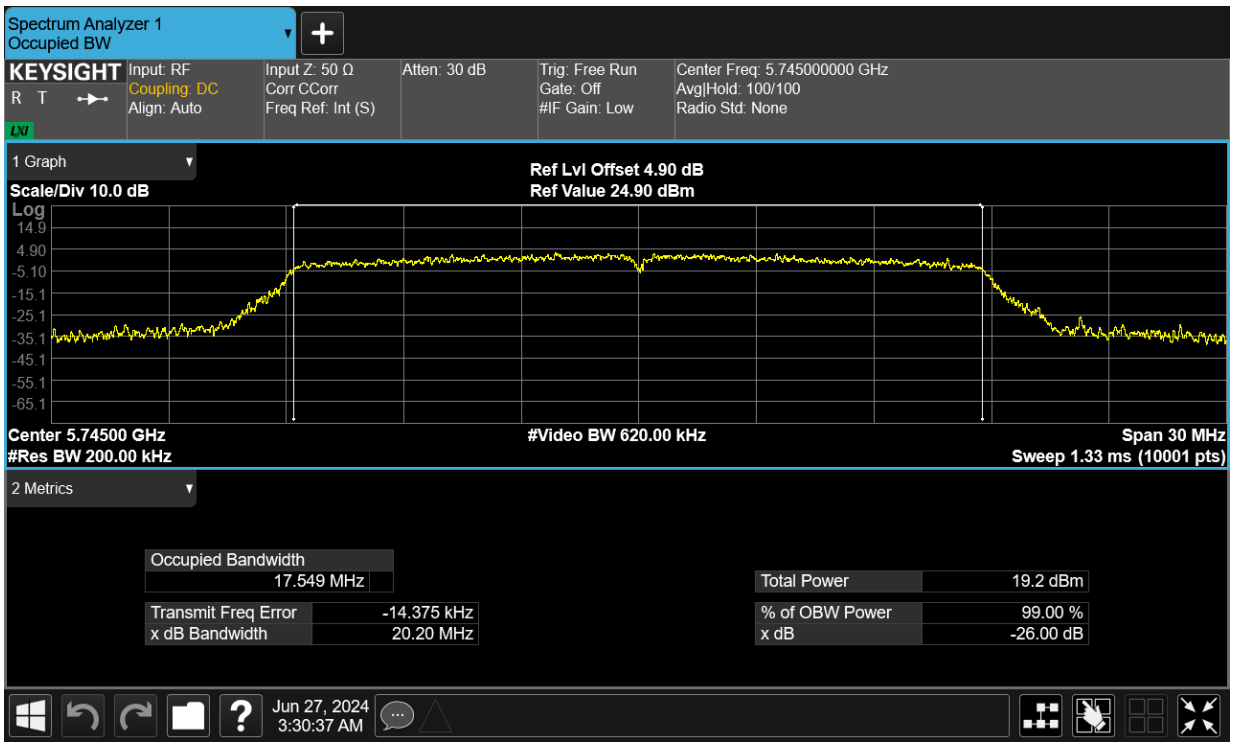

OBW NVNT ac40 5795MHz Ant1



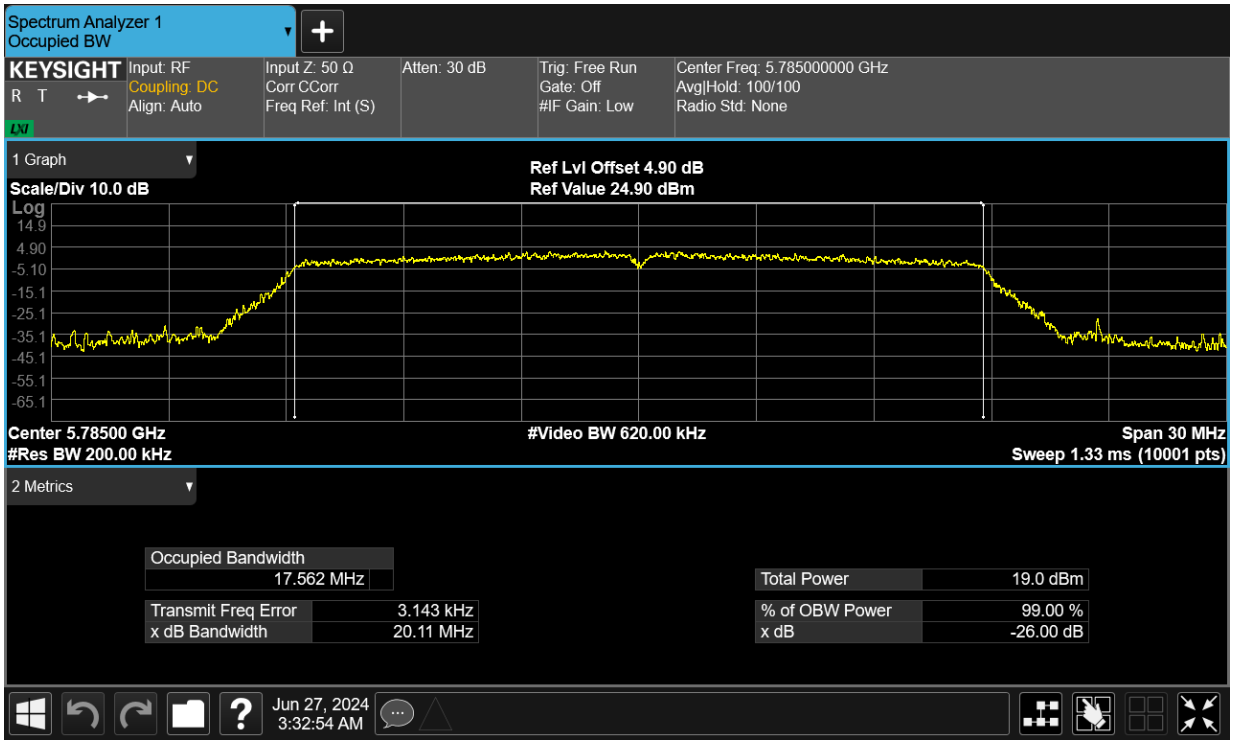

OBW NVNT ac80 5775MHz Ant1



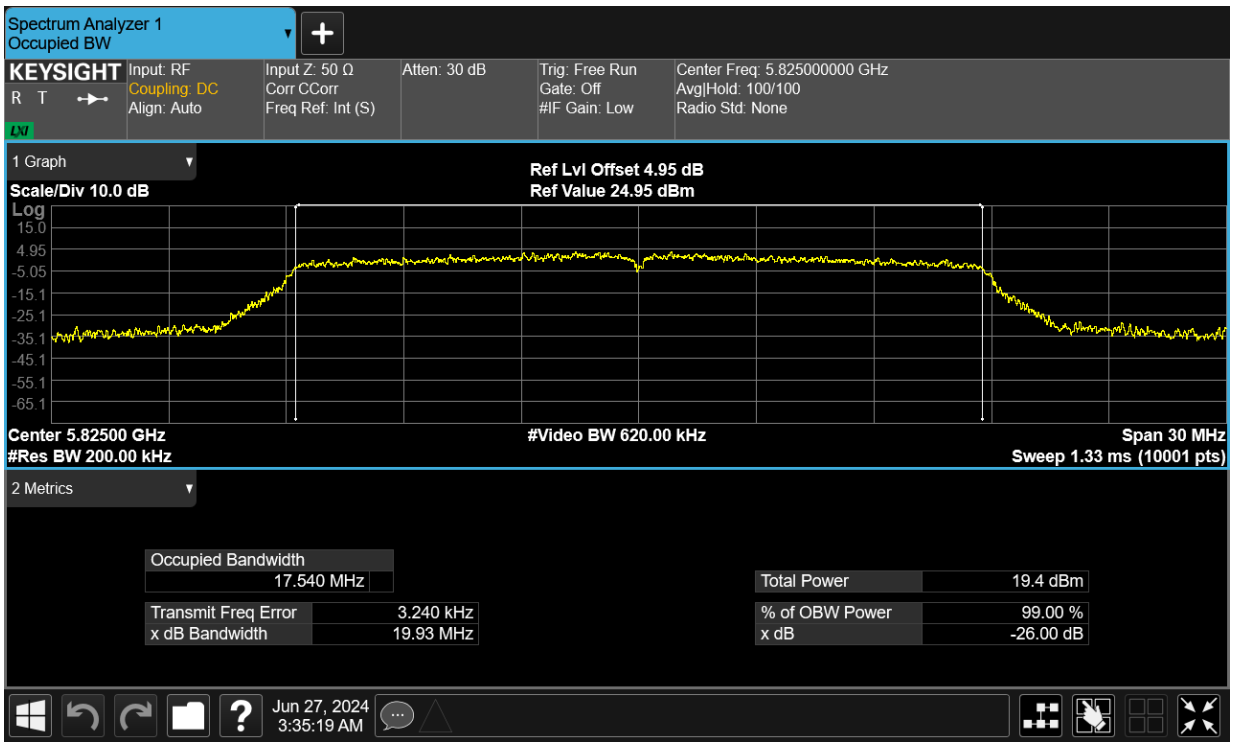

OBW NVNT n20 5745MHz Ant1



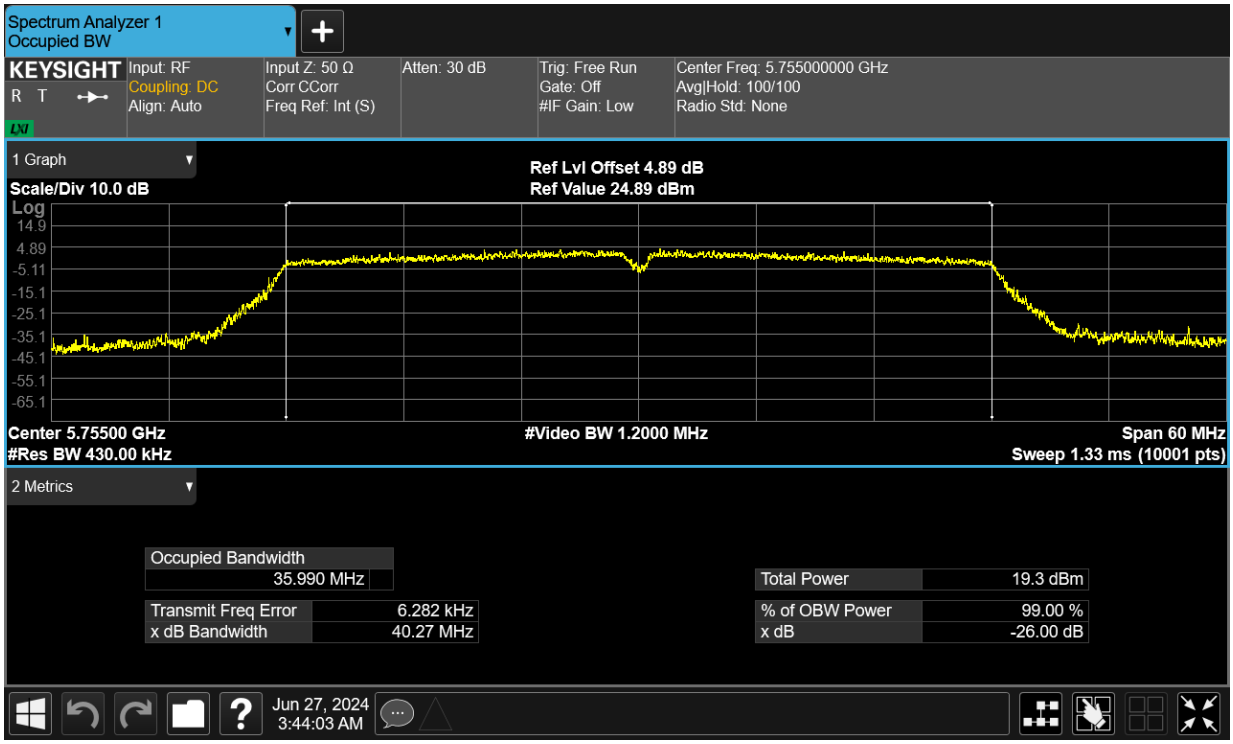

OBW NVNT n20 5785MHz Ant1



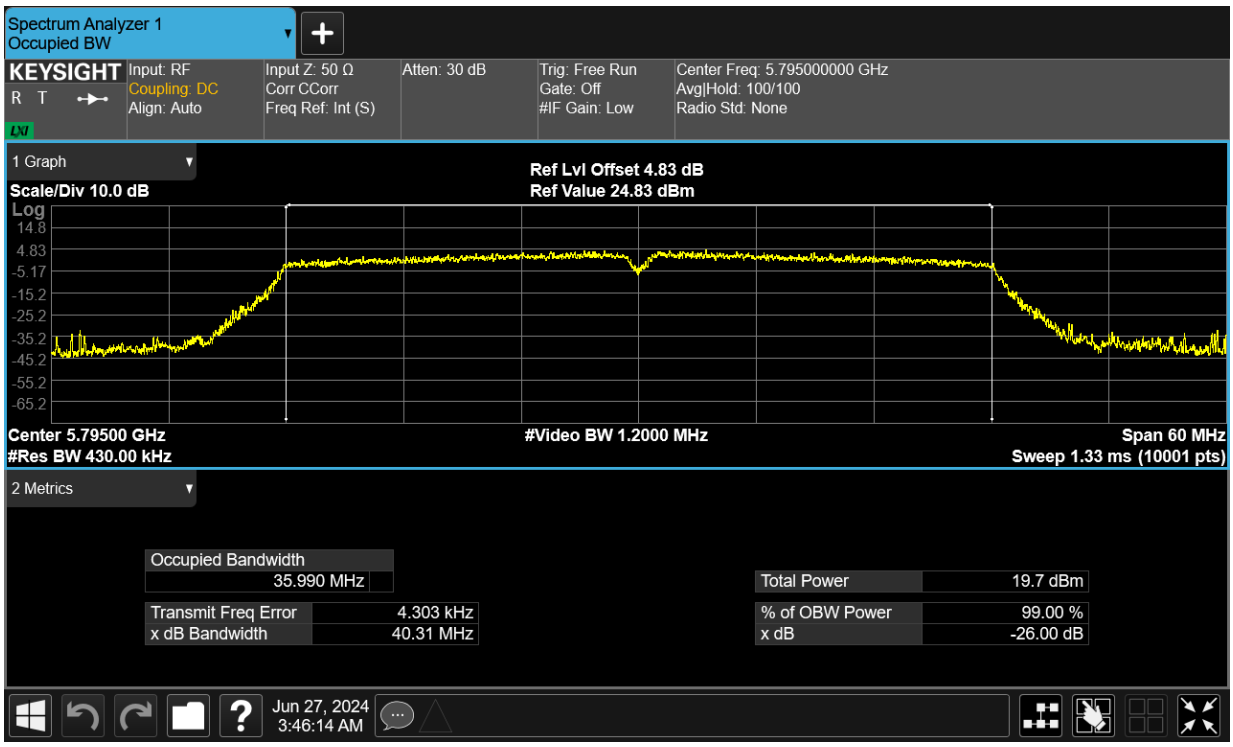

OBW NVNT n20 5825MHz Ant1




OBW NVNT n40 5755MHz Ant1




OBW NVNT n40 5795MHz Ant1

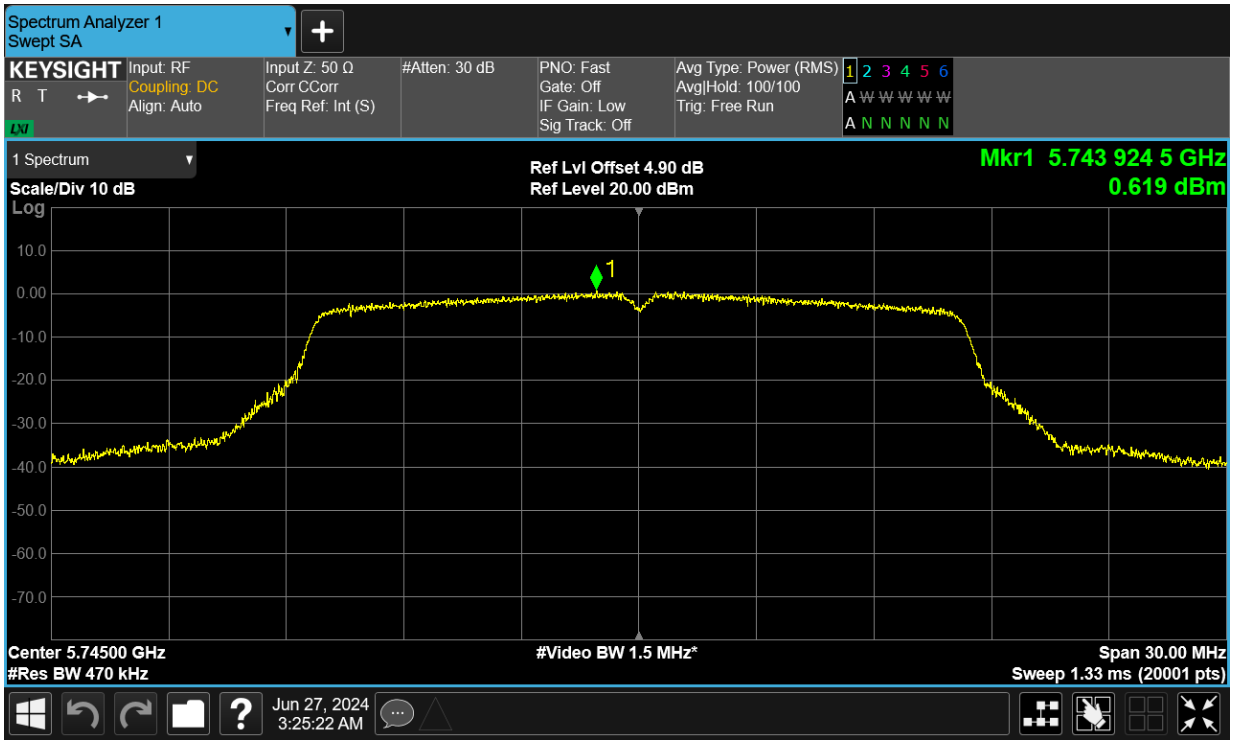


# Maximum Power Spectral Density Level

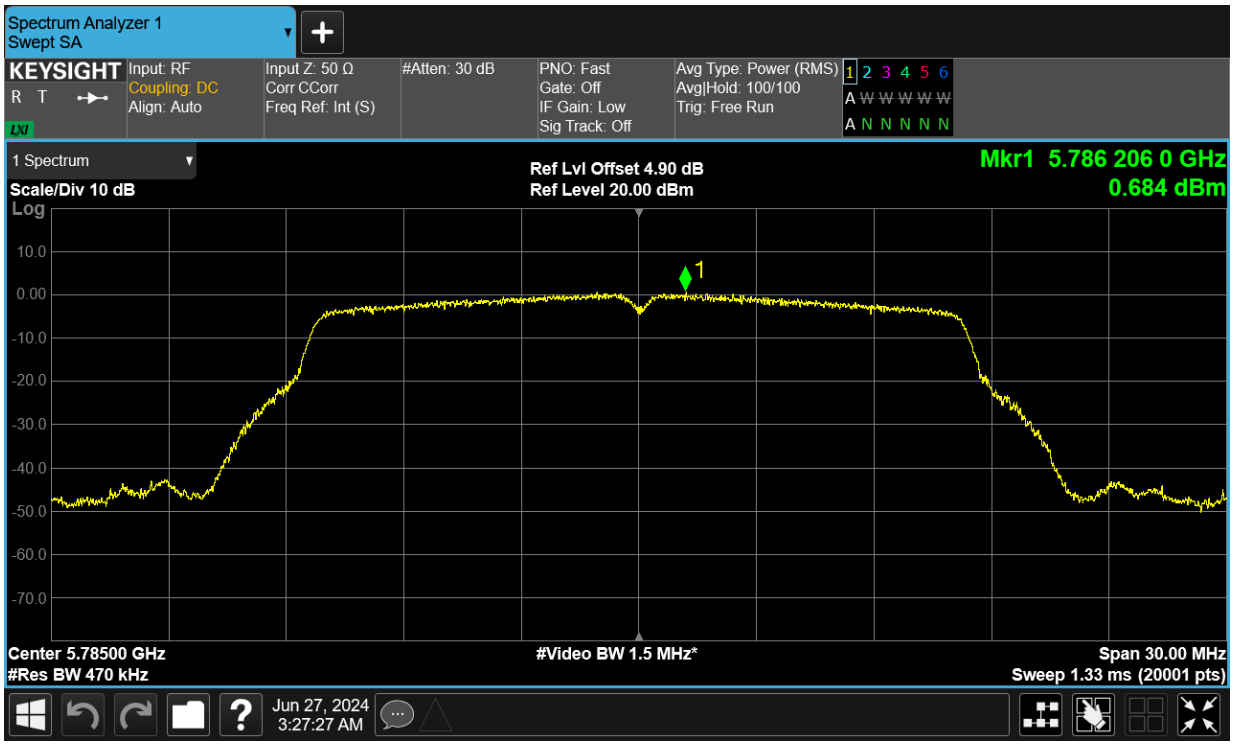
| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | 0.619 | 30 | Pass |
| NVNT | a | 5785 | Ant1 | 0.684 | 30 | Pass |
| NVNT | a | 5825 | Ant1 | 0.809 | 30 | Pass |
| NVNT | ac20 | 5745 | Ant1 | 0.646 | 30 | Pass |
| NVNT | ac20 | 5785 | Ant1 | 0.78 | 30 | Pass |
| NVNT | ac20 | 5825 | Ant1 | 0.824 | 30 | Pass |
| NVNT | ac40 | 5755 | Ant1 | -1.969 | 30 | Pass |
| NVNT | ac40 | 5795 | Ant1 | -1.779 | 30 | Pass |
| NVNT | ac80 | 5775 | Ant1 | -5.513 | 30 | Pass |
| NVNT | n20 | 5745 | Ant1 | 0.394 | 30 | Pass |
| NVNT | n20 | 5785 | Ant1 | 0.406 | 30 | Pass |
| NVNT | n20 | 5825 | Ant1 | 0.849 | 30 | Pass |
| NVNT | n40 | 5755 | Ant1 | -2.577 | 30 | Pass |
| NVNT | n40 | 5795 | Ant1 | -2.162 | 30 | Pass |

Test Graphs

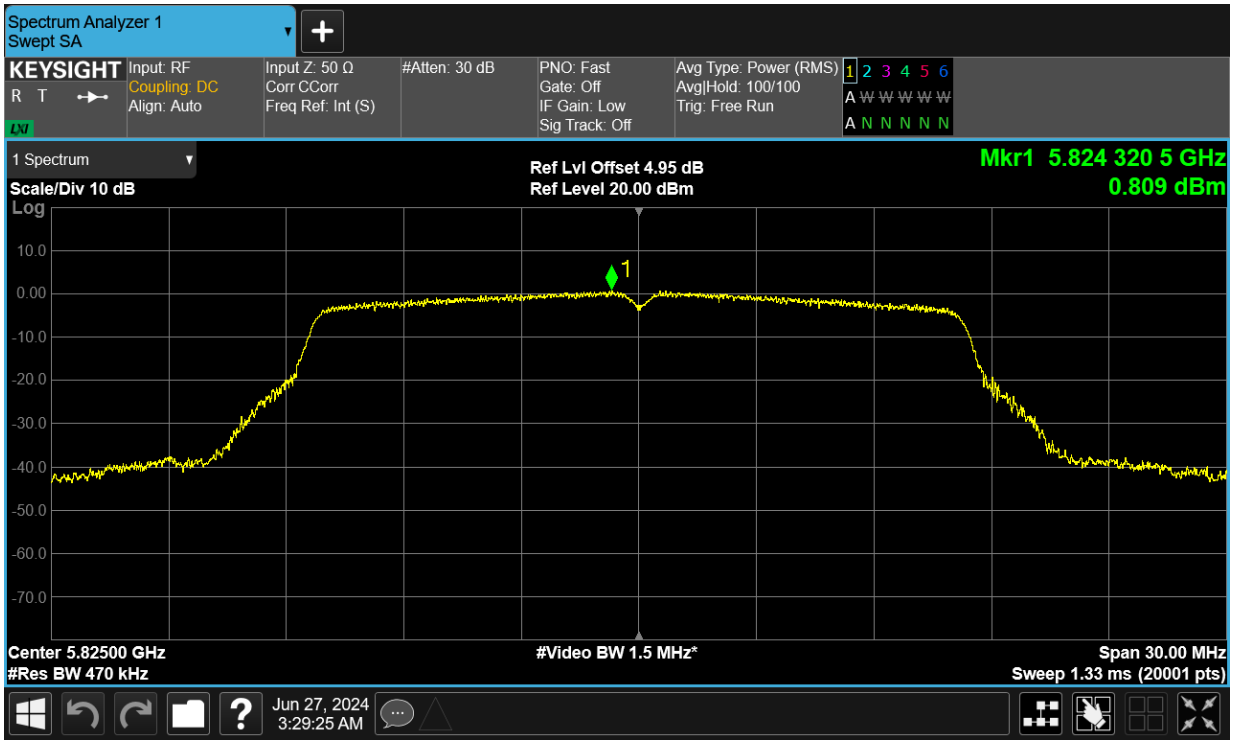
PSD NVNT a 5745MHz Ant1



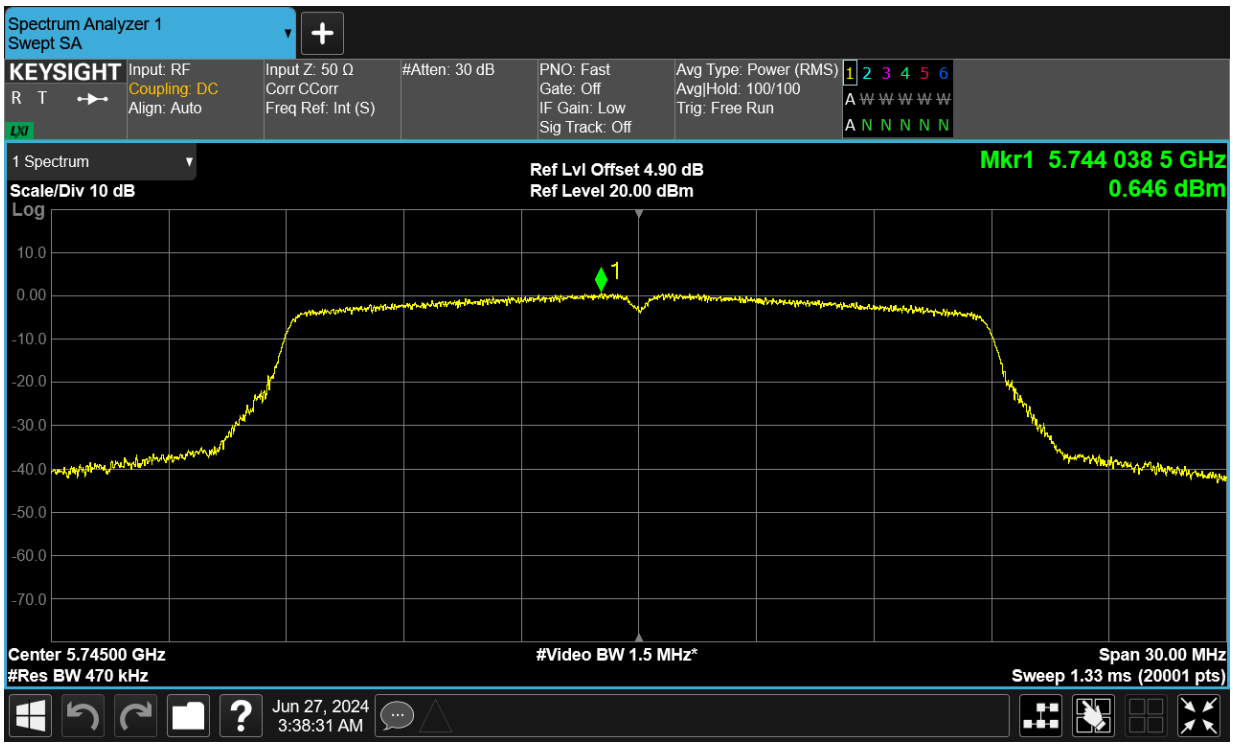

PSD NVNT a 5785MHz Ant1



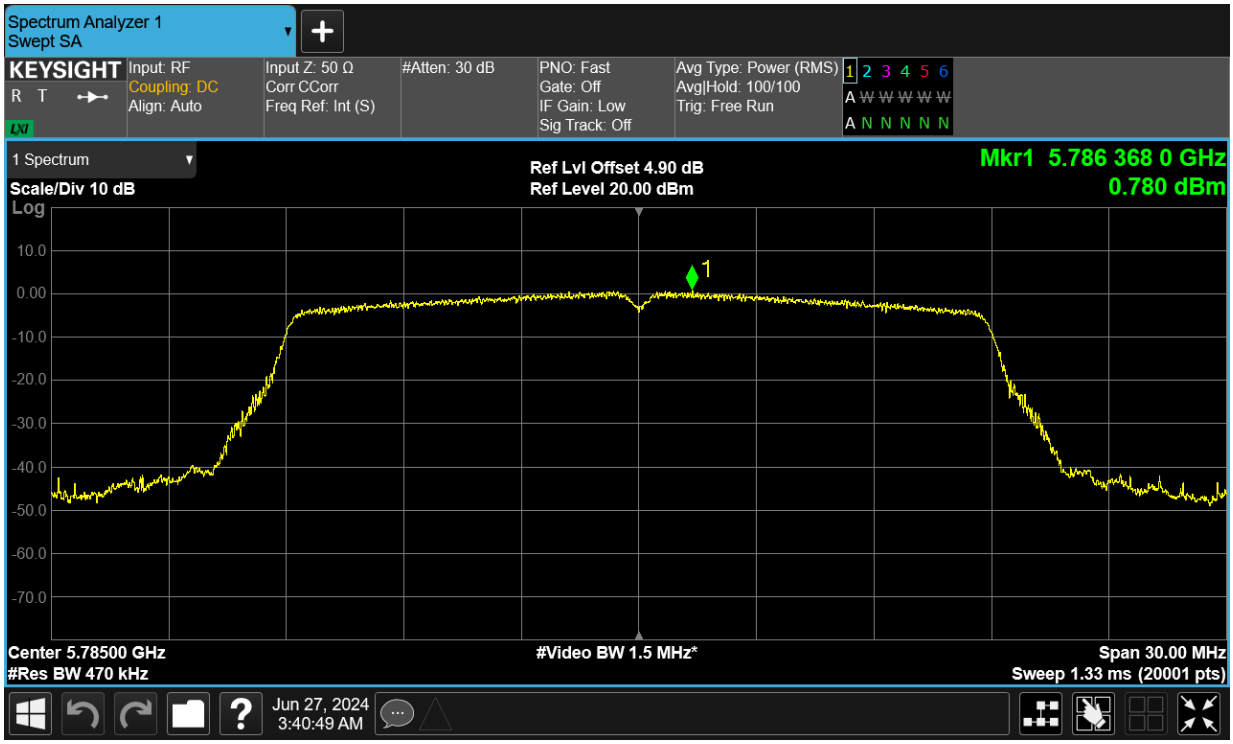

PSD NVNT a 5825MHz Ant1




PSD NVNT ac20 5745MHz Ant1

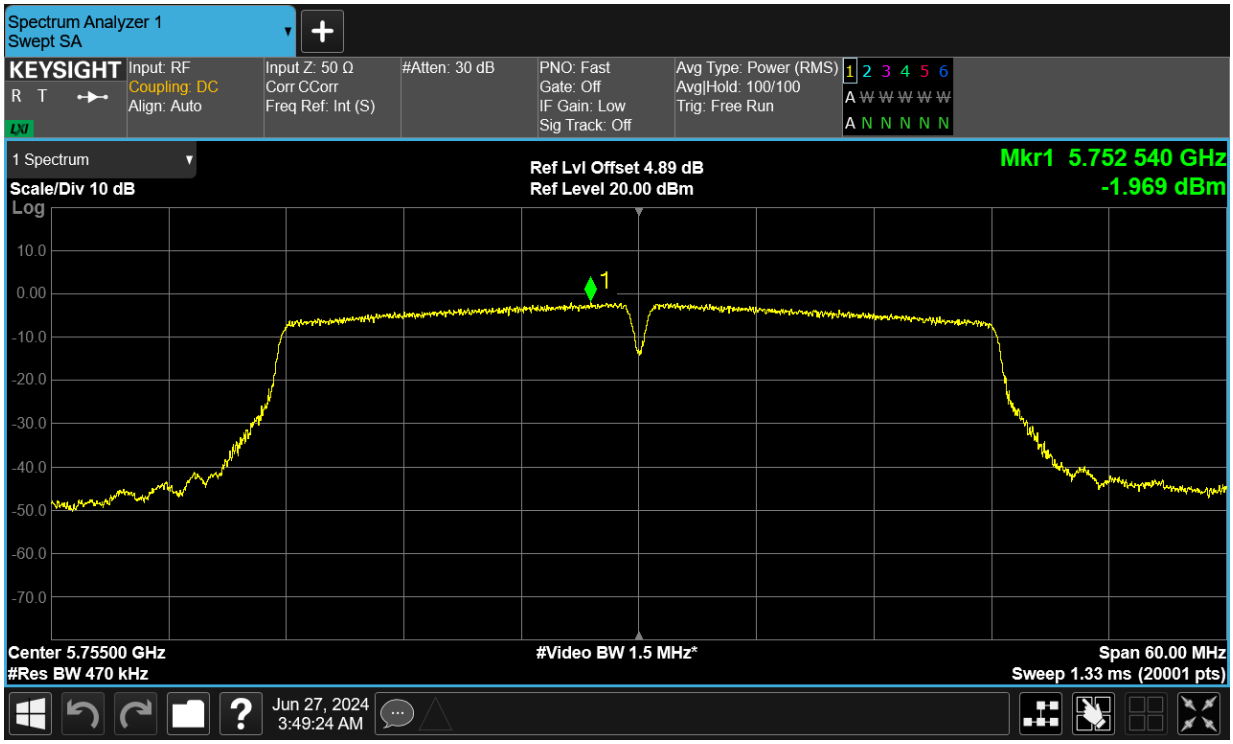



PSD NVNT ac20 5785MHz Ant1

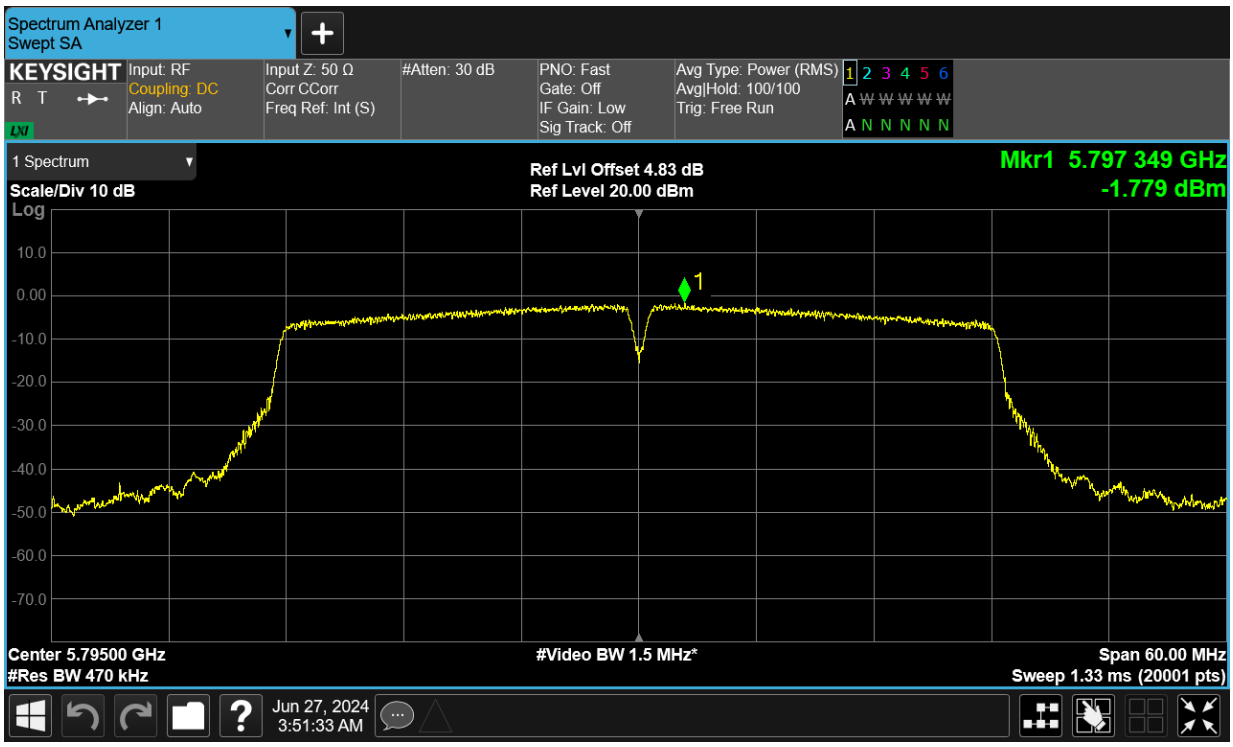



PSD NVNT ac20 5825MHz Ant1

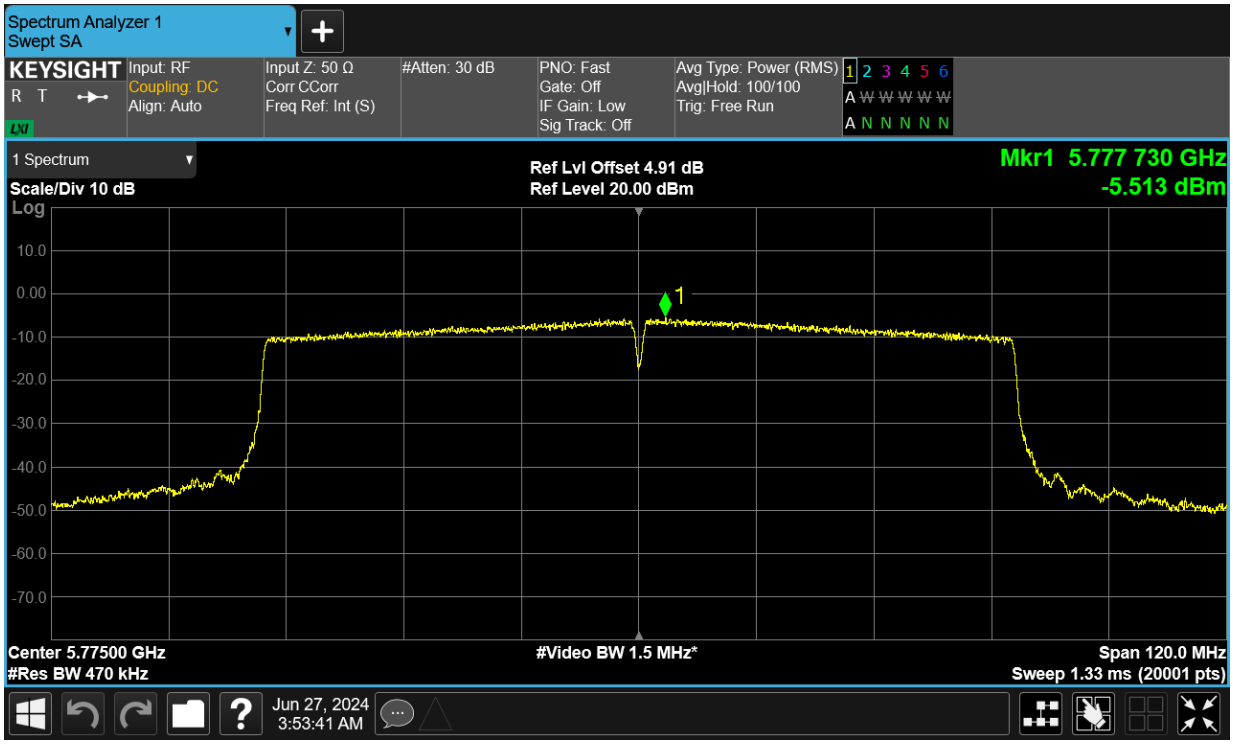
PSD NVNT ac40 5755MHz Ant1



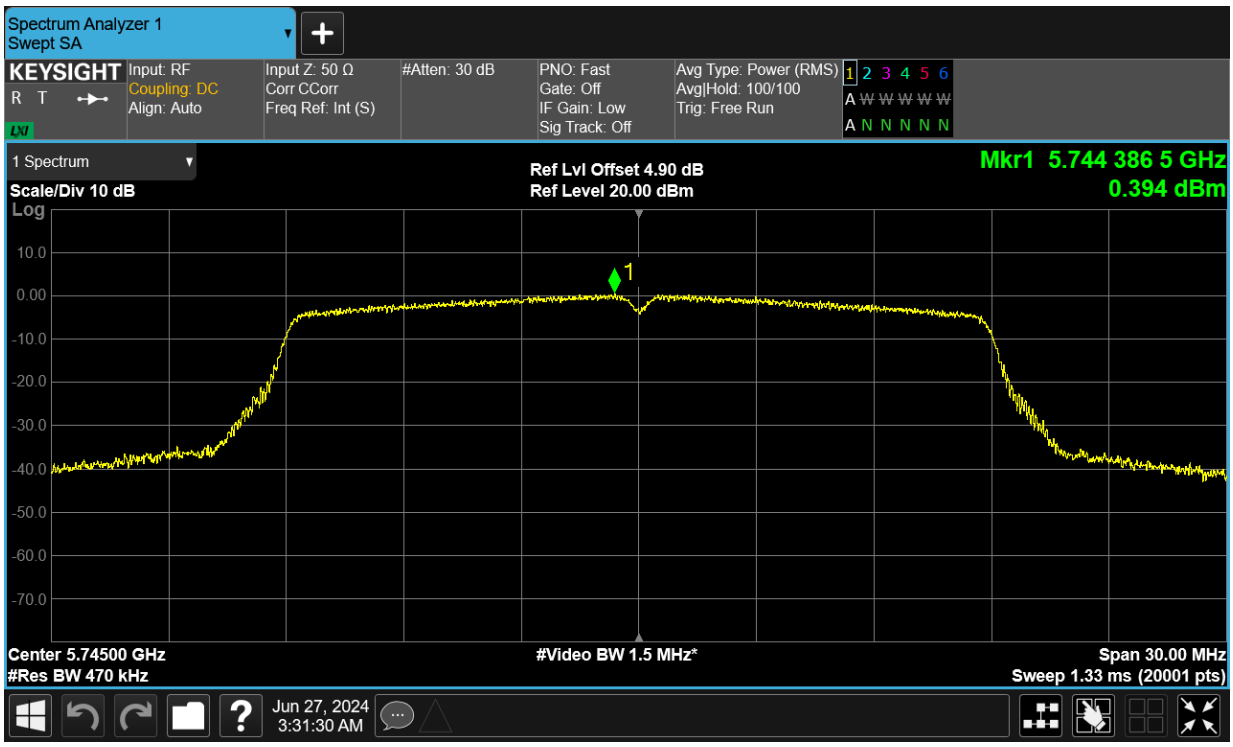

PSD NVNT ac40 5795MHz Ant1



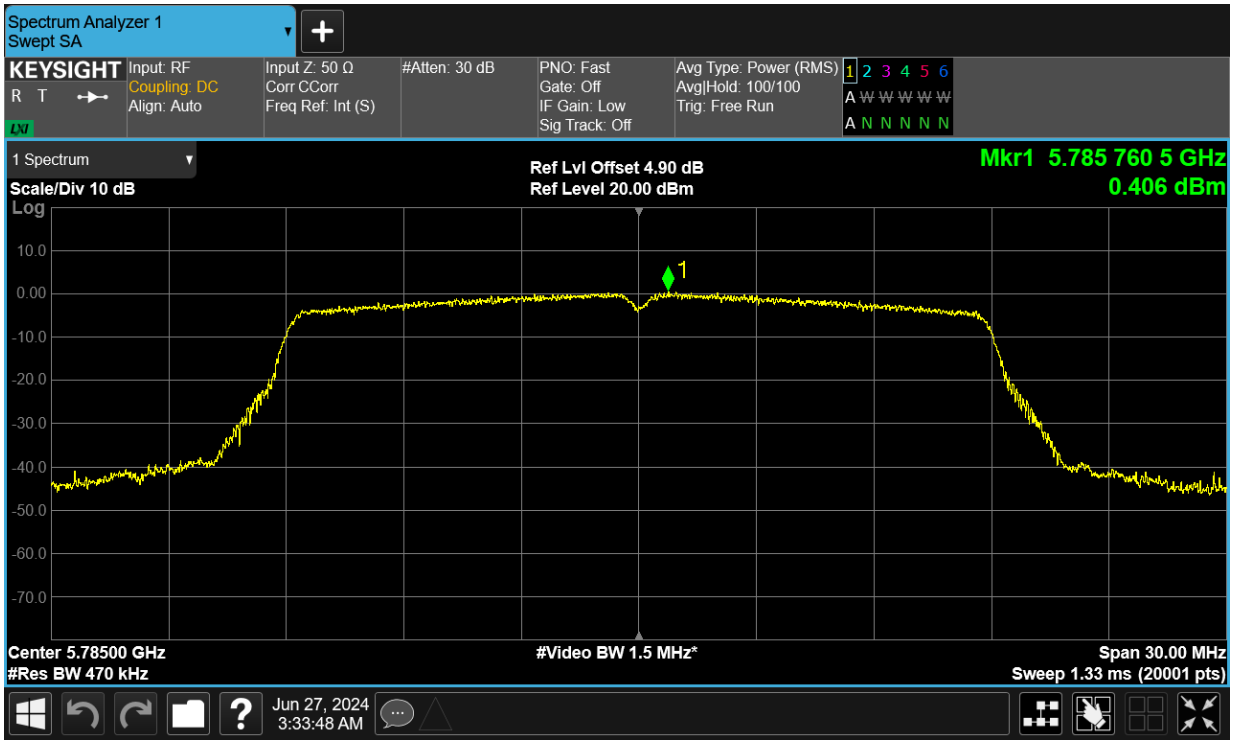

PSD NVNT ac80 5775MHz Ant1



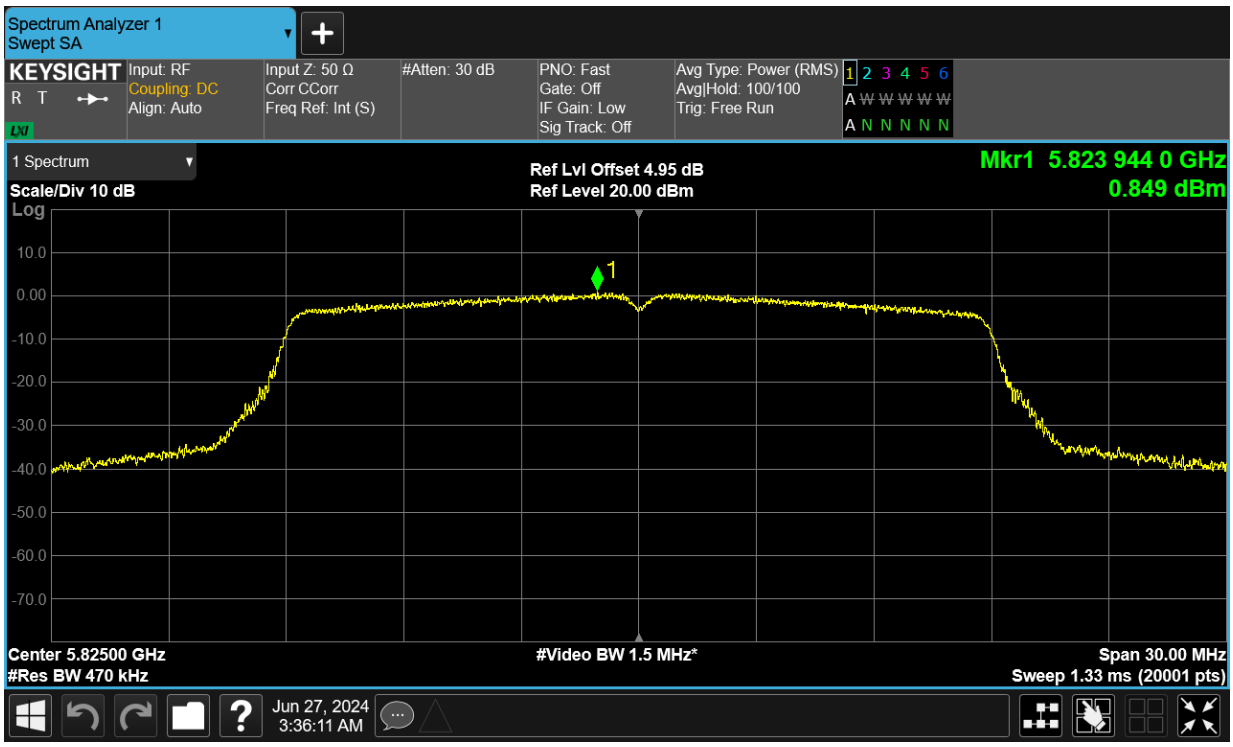

PSD NVNT n20 5745MHz Ant1



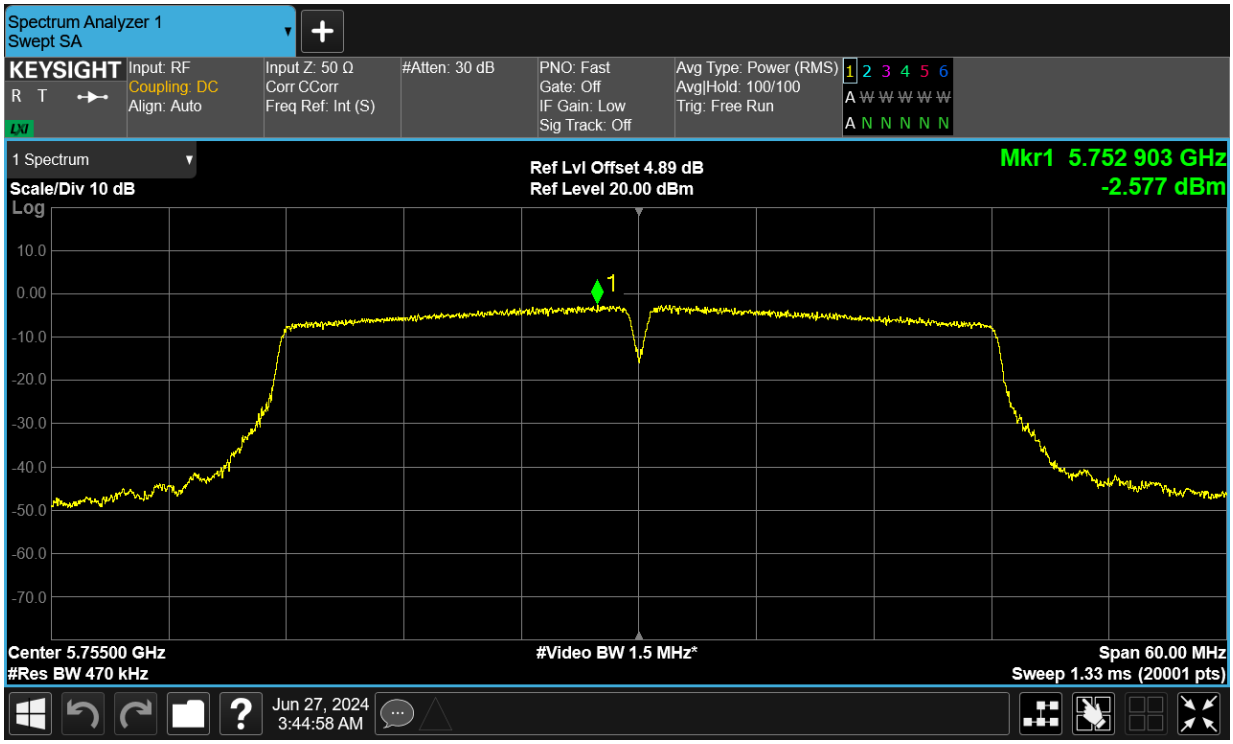

PSD NVNT n20 5785MHz Ant1

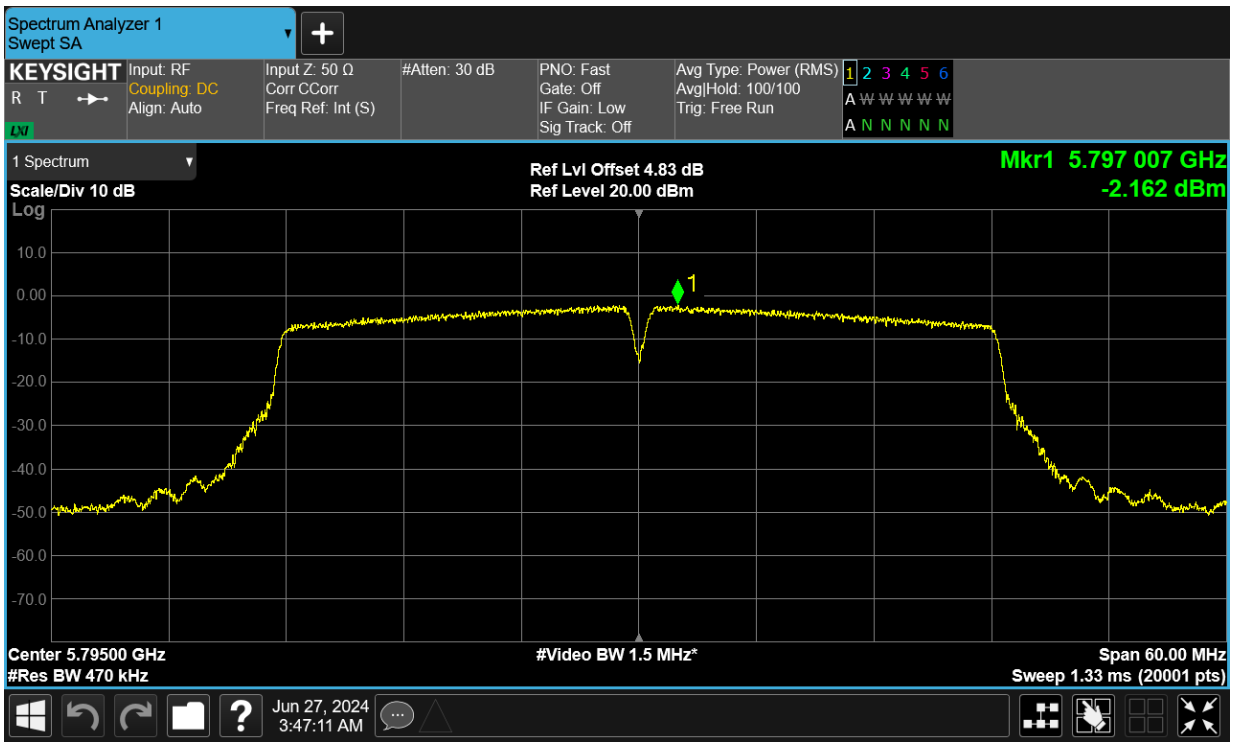



PSD NVNT n20 5825MHz Ant1




PSD NVNT n40 5755MHz Ant1




PSD NVNT n40 5795MHz Ant1