Test Data

Frequency Stability

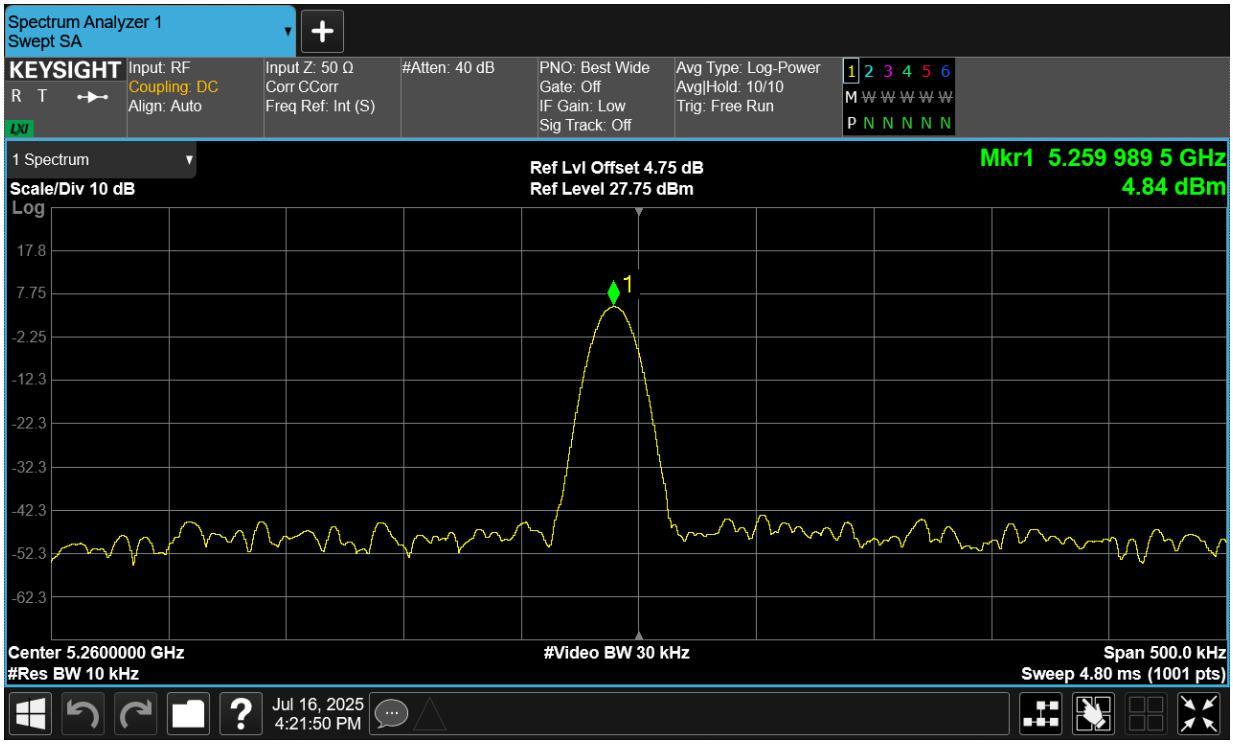
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5260	Ant1	5259.9895	-2	Within authorized band	Pass
LVNT	a	5260	Ant1	5259.9895	-2		Pass
NVHT	a	5260	Ant1	5259.9905	-1.81		Pass
NVLT	a	5260	Ant1	5259.9905	-1.81		Pass
NVNT	a	5260	Ant1	5259.9905	-1.81		Pass

Remark:

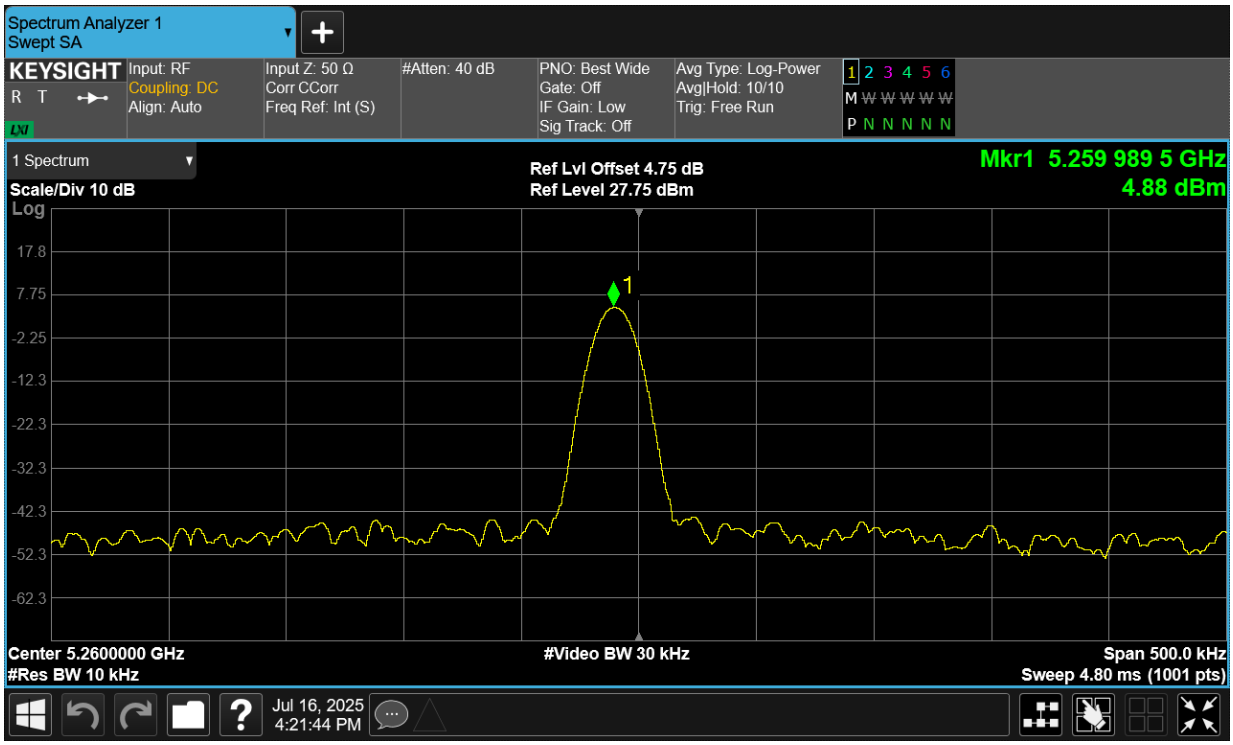
1. “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.

2. Pre-scan 802.11a, n, ac, ax modulation mode, found 5.2GHz Wi-Fi ANT0 802.11a modulation was worse case mode. only reflects the test data of worst mode

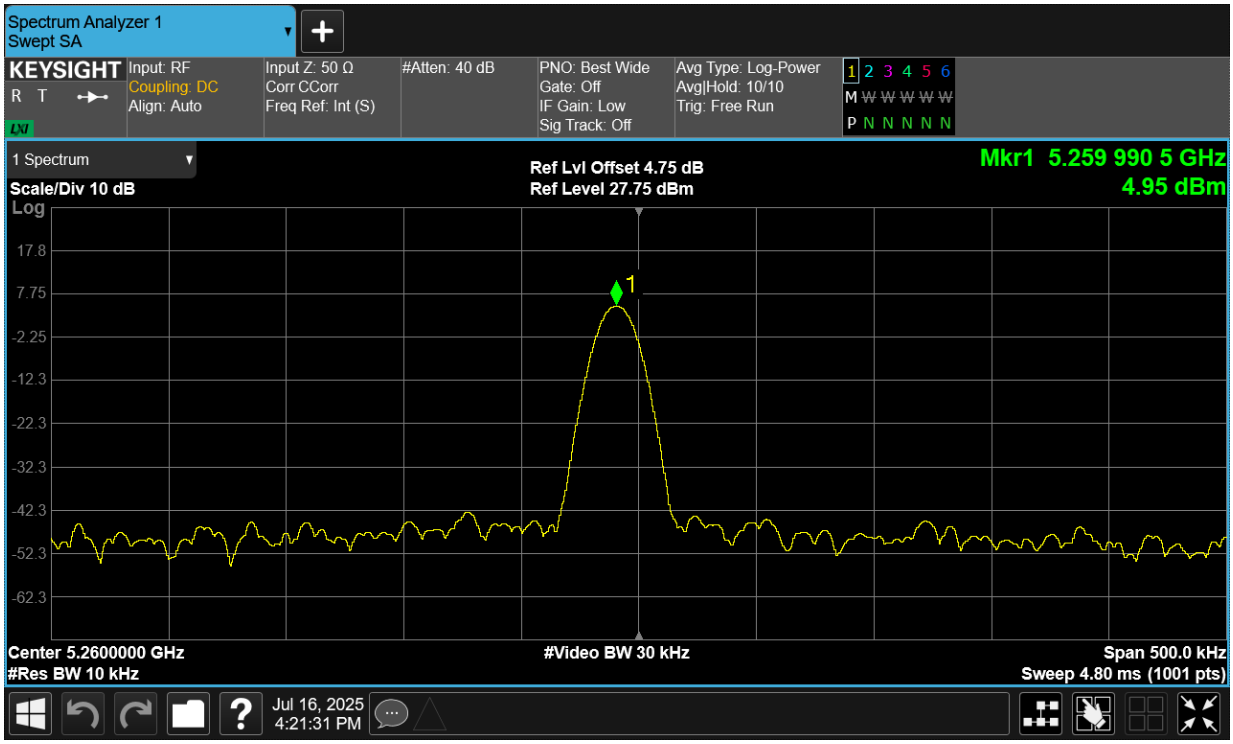
Test Graphs
Freq. Stability HVNT a 5260MHz Ant1



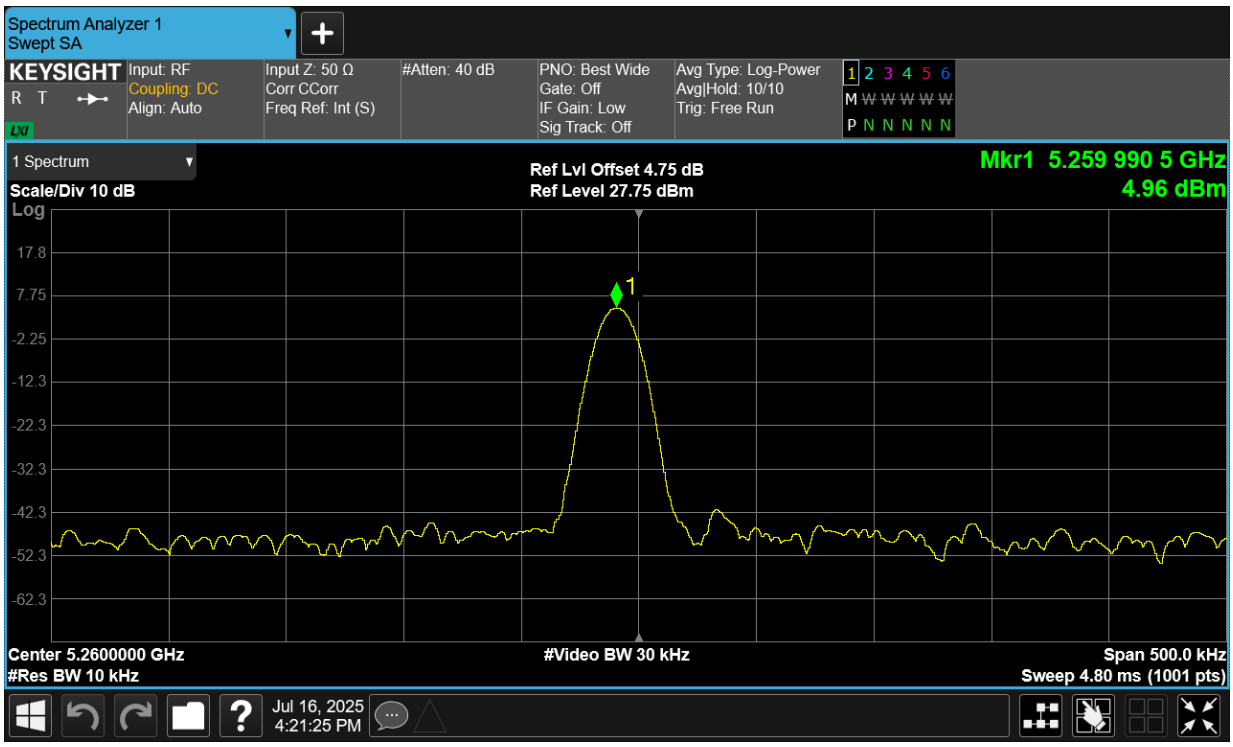
Freq. Stability LVNT a 5260MHz Ant1



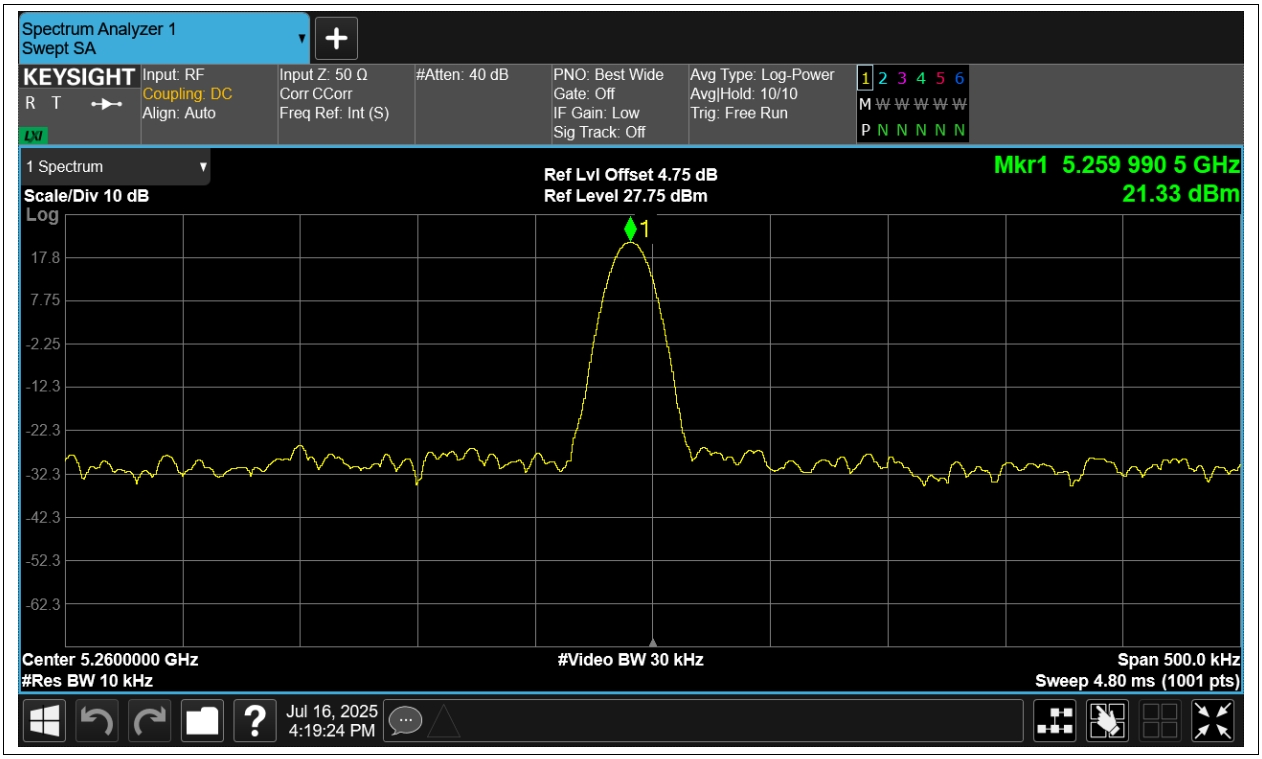
Freq. Stability NVHT a 5260MHz Ant1



Freq. Stability NVLT a 5260MHz Ant1



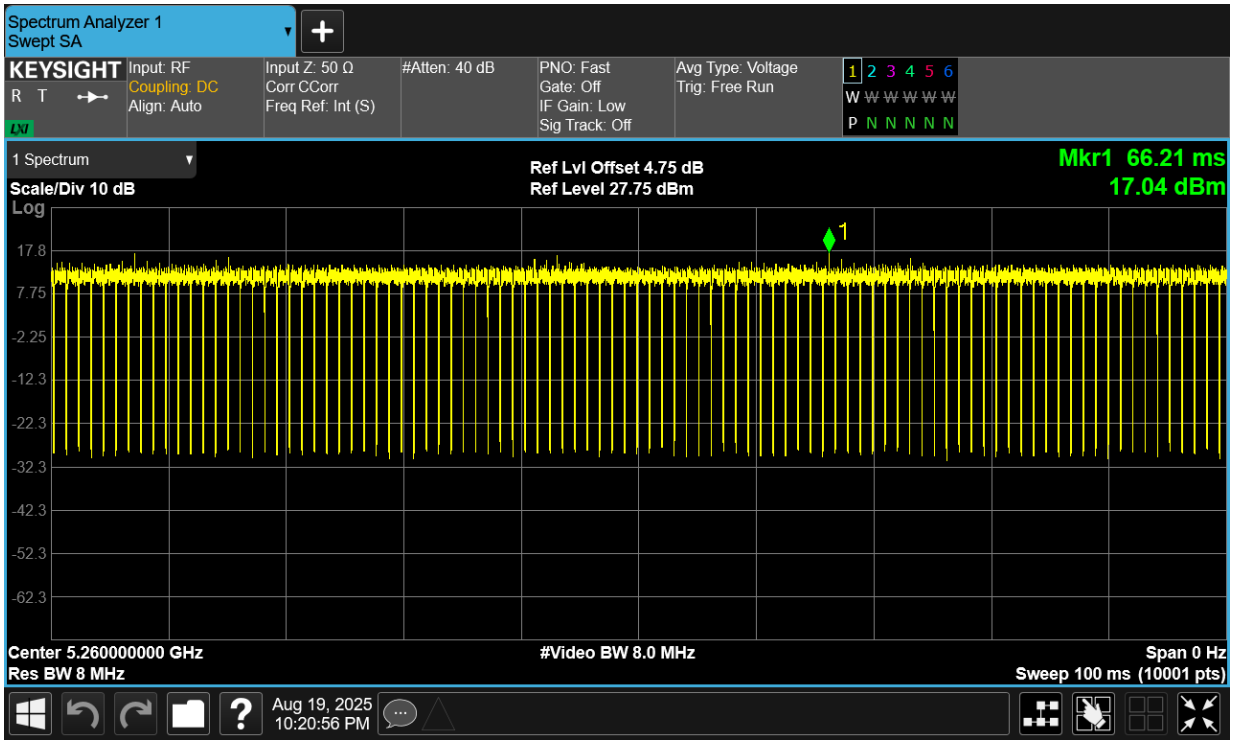
Freq. Stability NVNT a 5260MHz Ant1


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 4.75 dB
Ref Level 27.75 dBm
Mkr1 5.259 990 5 GHz
21.33 dBm
Log
17.8
7.75
-2.25
-12.3
-22.3
-32.3
-42.3
-52.3
-62.3
Center 5.2600000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 500.0 kHz
Sweep 4.80 ms (1001 pts)
Jul 16, 2025
4:19:24 PM

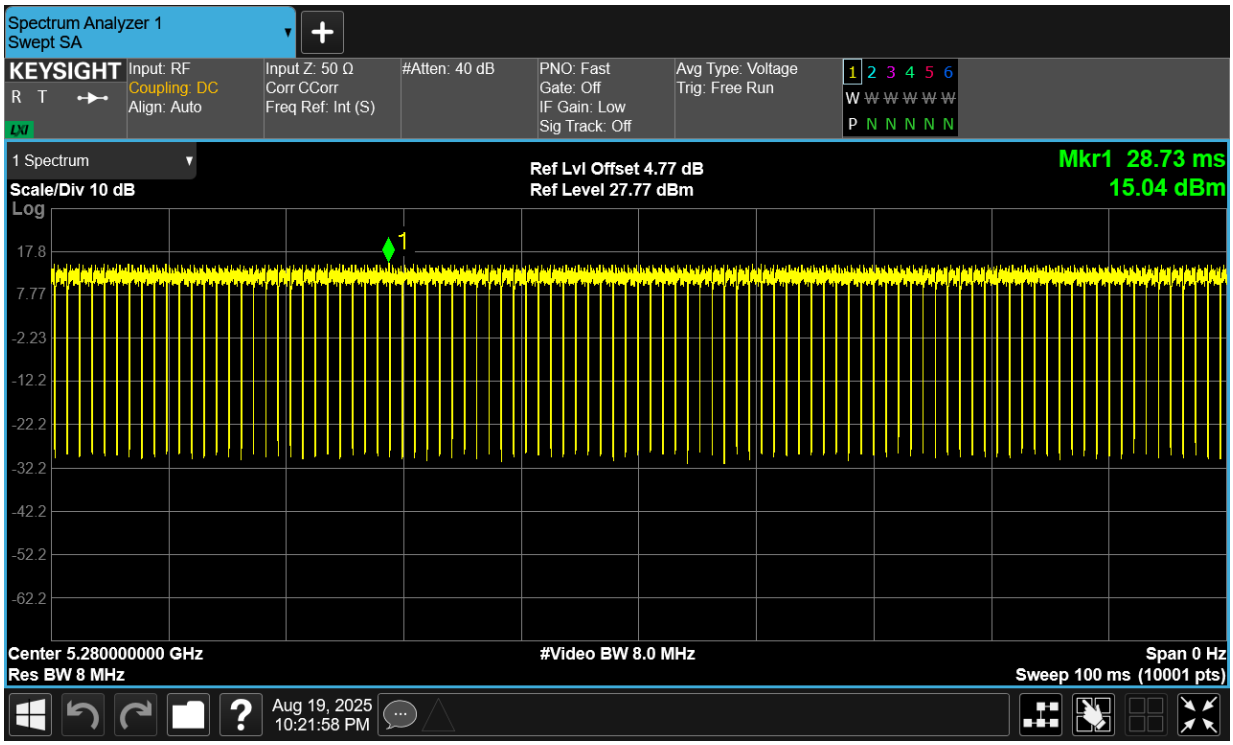
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5260	Ant1	93.82	0.28
NVNT	a	5280	Ant1	93.35	0.3
NVNT	a	5320	Ant1	93.35	0.3
NVNT	ac20	5260	Ant1	93.35	0.3
NVNT	ac20	5280	Ant1	93.43	0.3
NVNT	ac20	5320	Ant1	93.35	0.3
NVNT	ax20	5260	Ant1	88.6	0.53
NVNT	ax20	5280	Ant1	88.12	0.55
NVNT	ax20	5320	Ant1	88.6	0.53
NVNT	n20	5260	Ant1	92.95	0.32
NVNT	n20	5280	Ant1	92.87	0.32
NVNT	n20	5320	Ant1	92.95	0.32

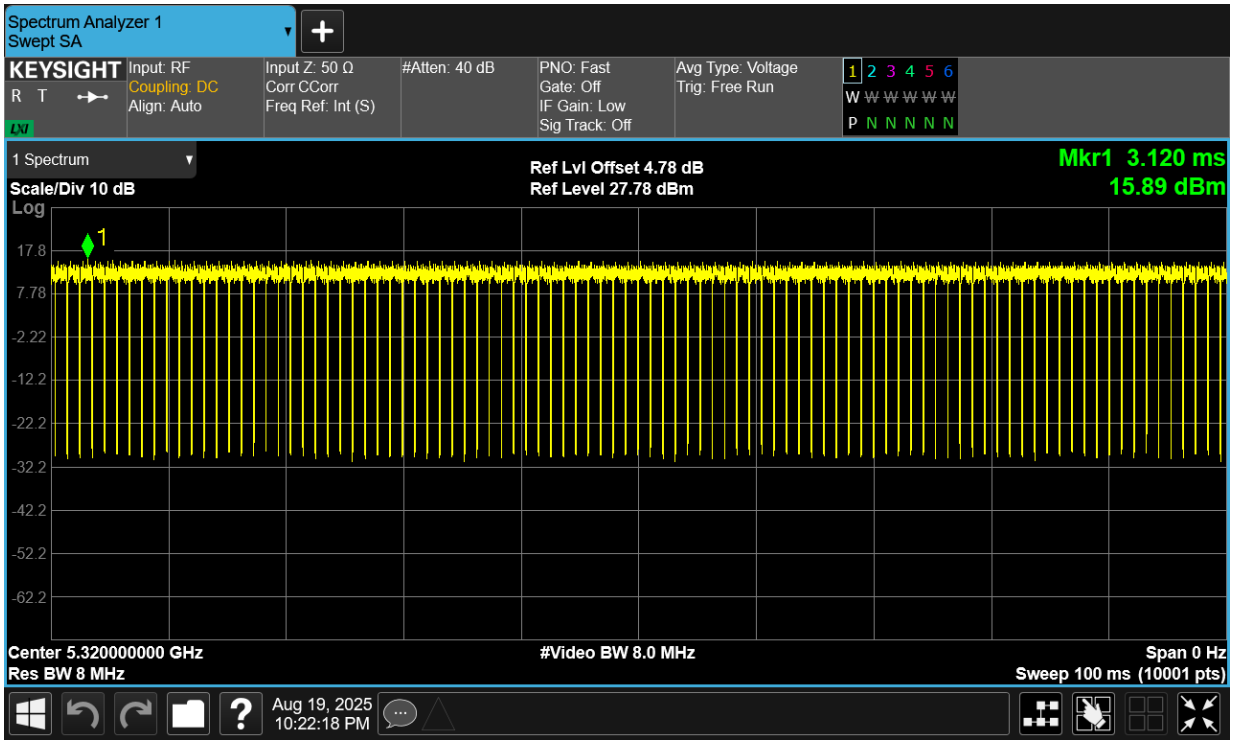
Test Graphs
Duty Cycle NVNT a 5260MHz Ant1



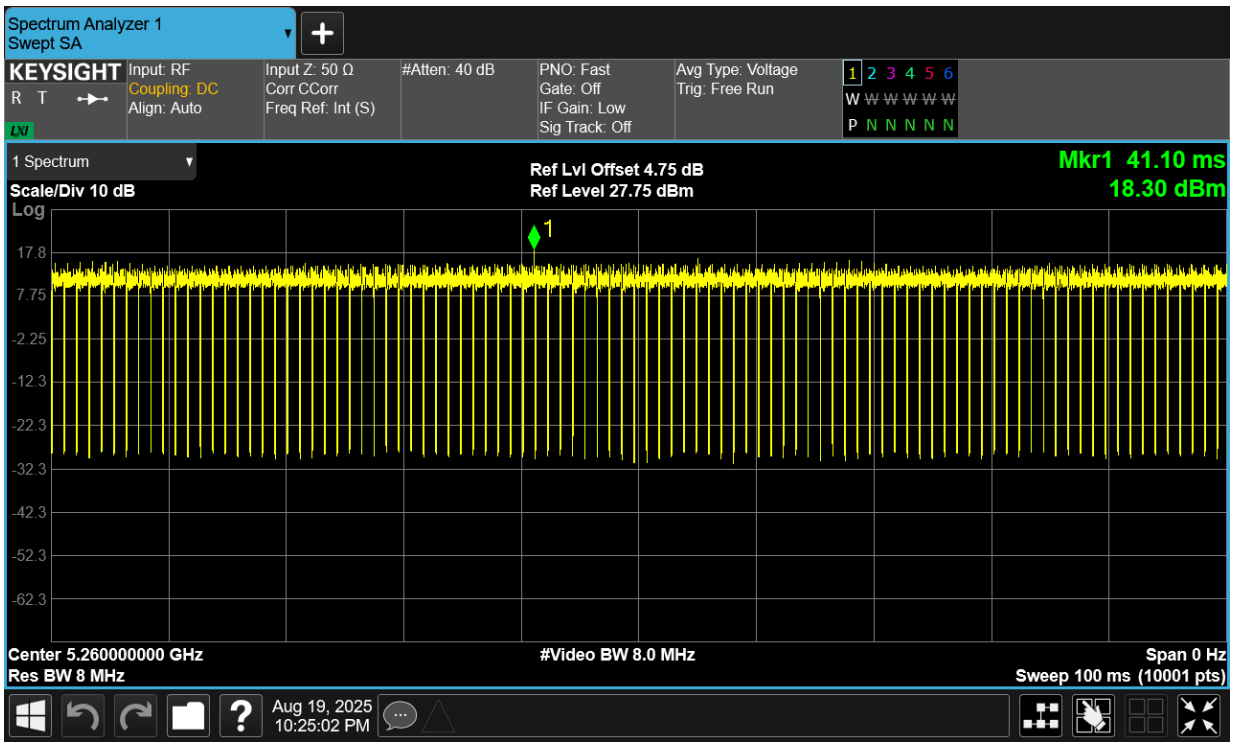
Duty Cycle NVNT a 5280MHz Ant1



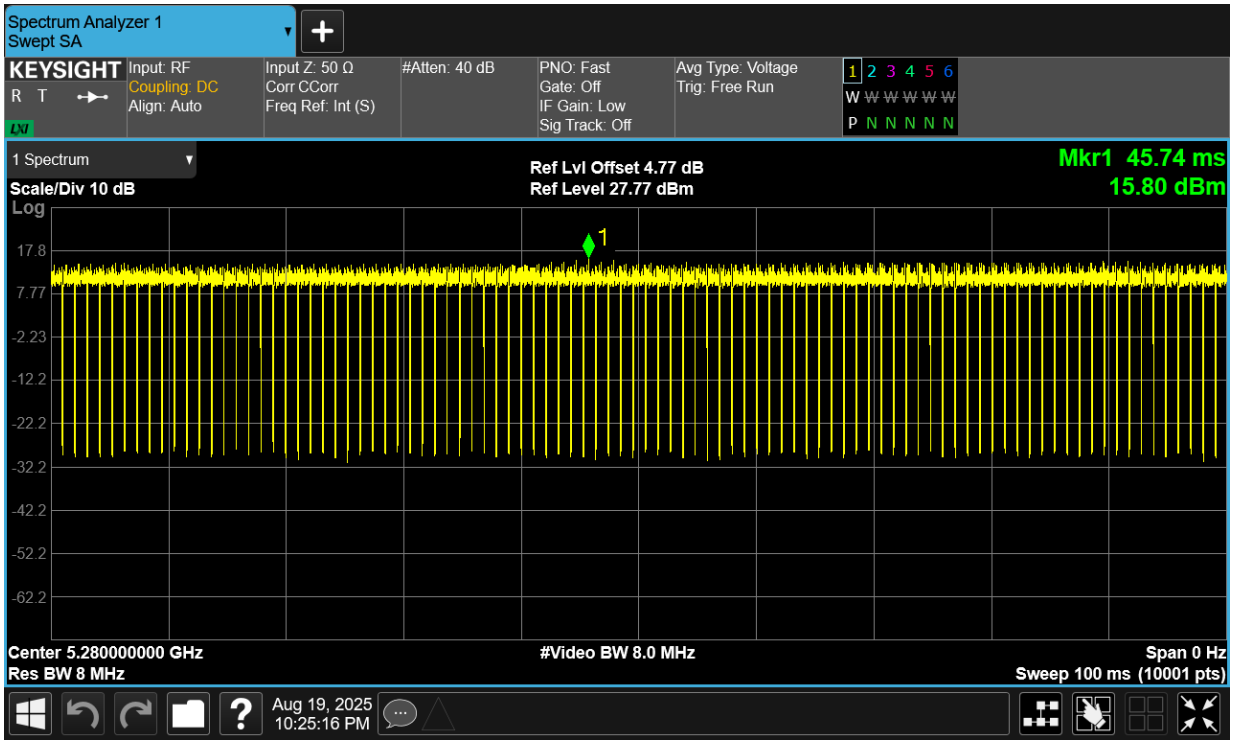
Duty Cycle NVNT a 5320MHz Ant1



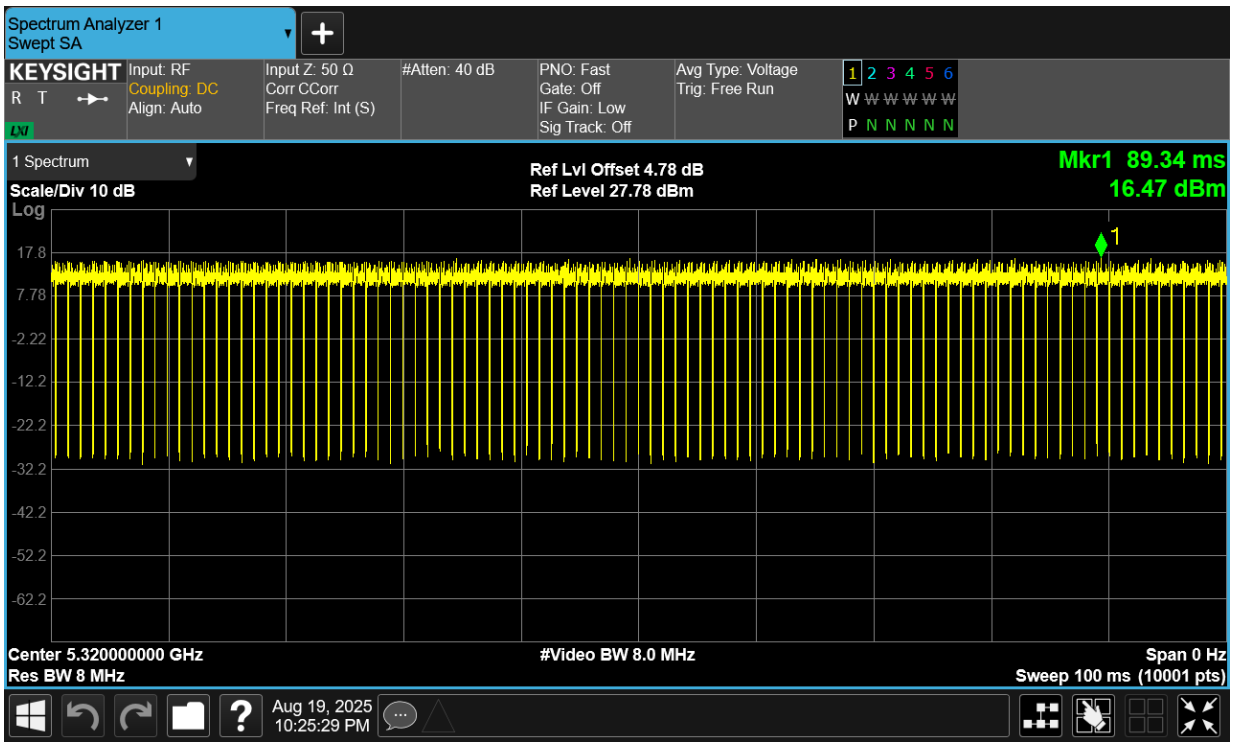
Duty Cycle NVNT ac20 5260MHz Ant1



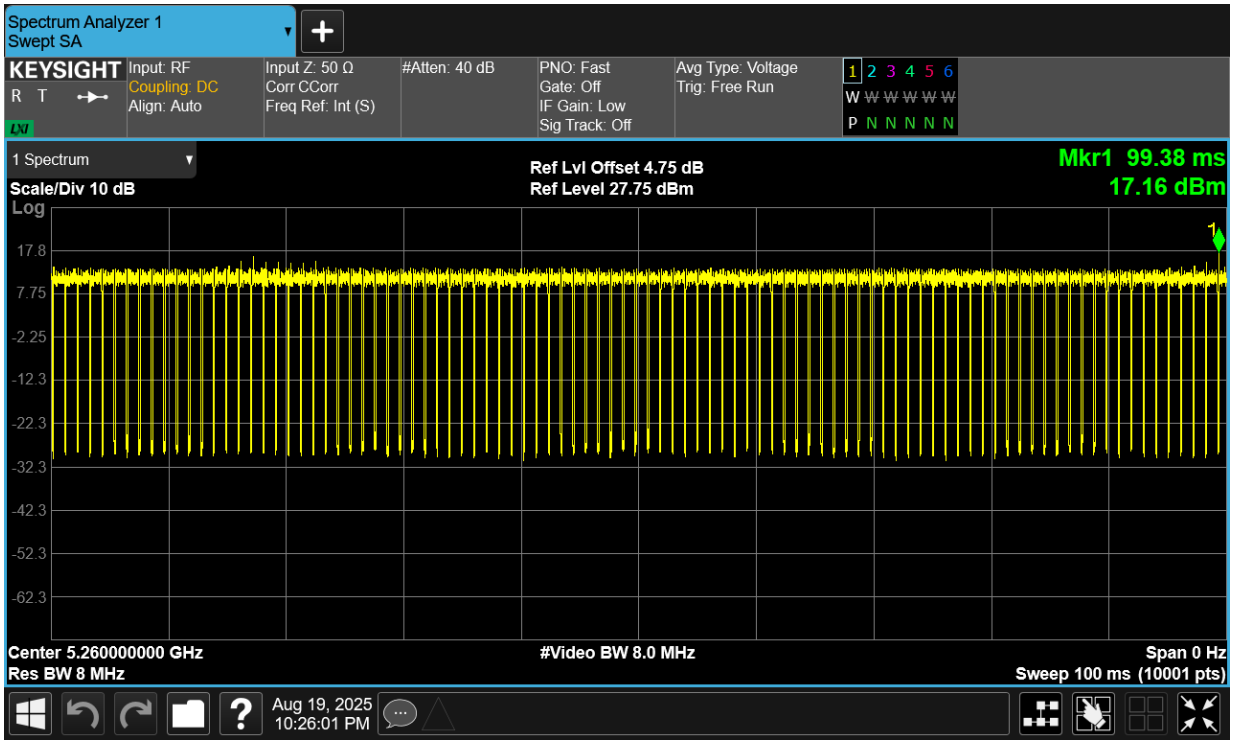
Duty Cycle NVNT ac20 5280MHz Ant1



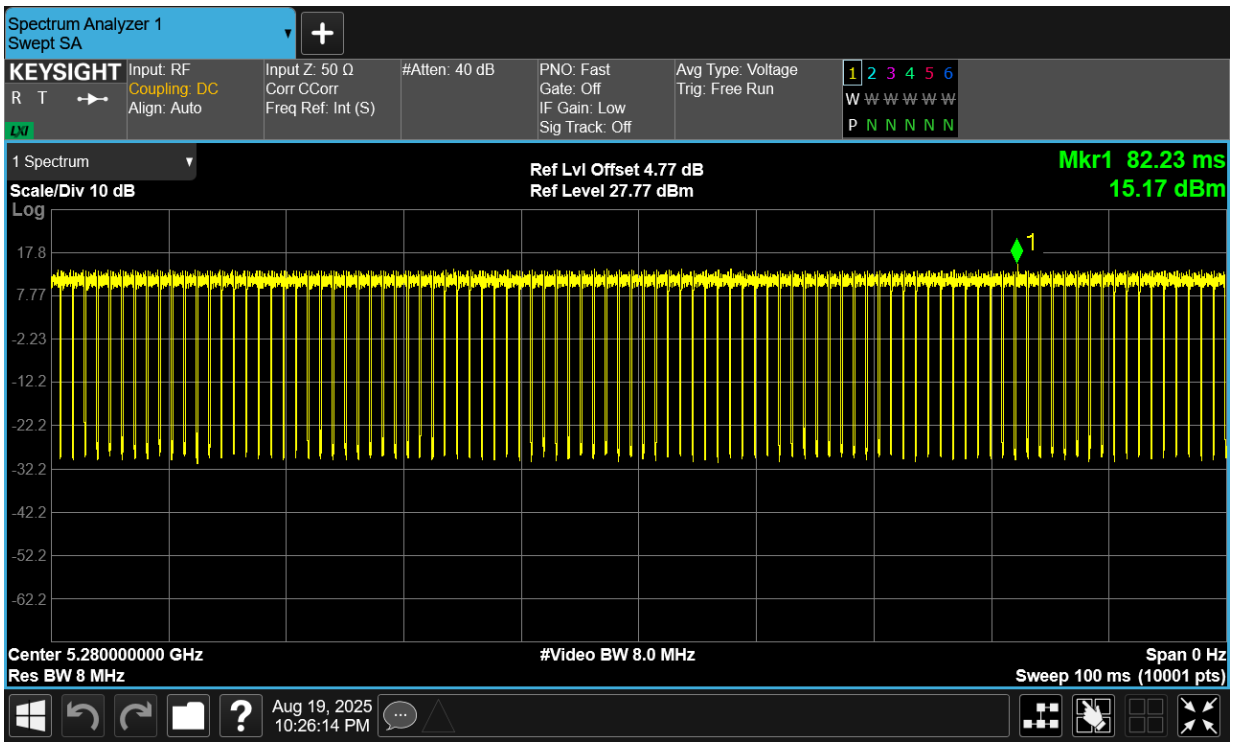
Duty Cycle NVNT ac20 5320MHz Ant1



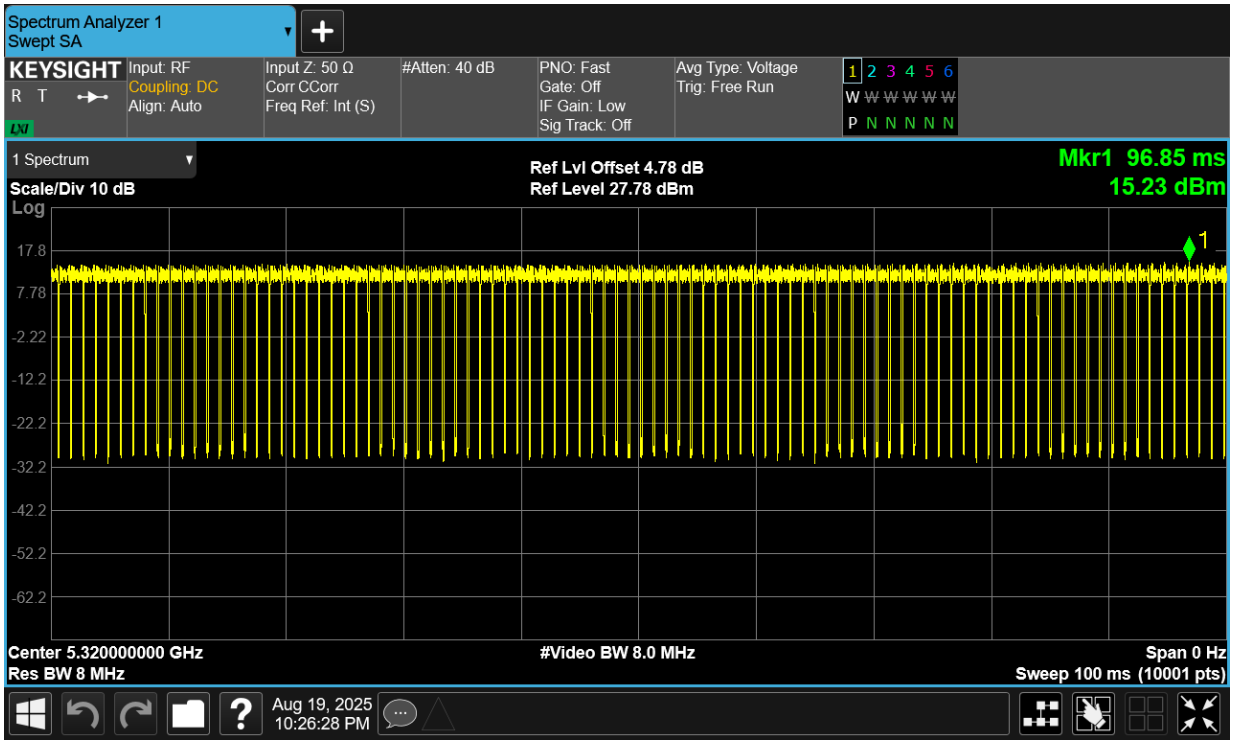
Duty Cycle NVNT ax20 5260MHz Ant1



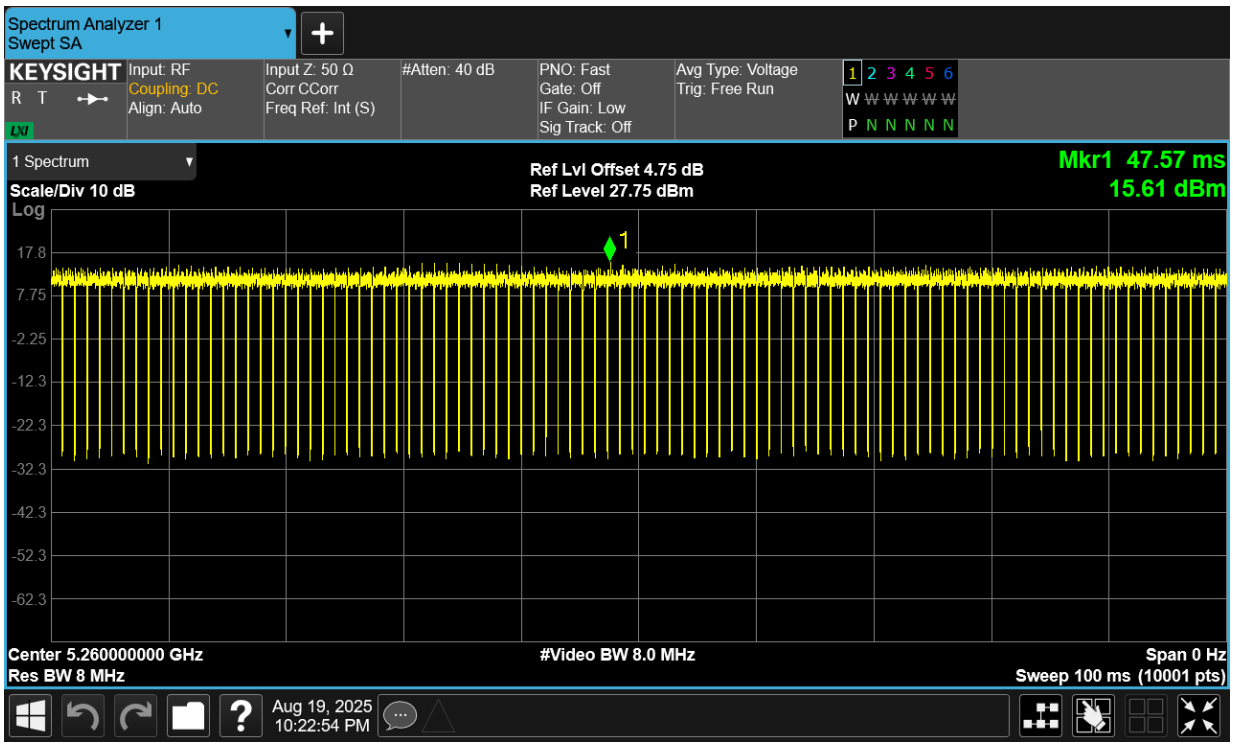
Duty Cycle NVNT ax20 5280MHz Ant1



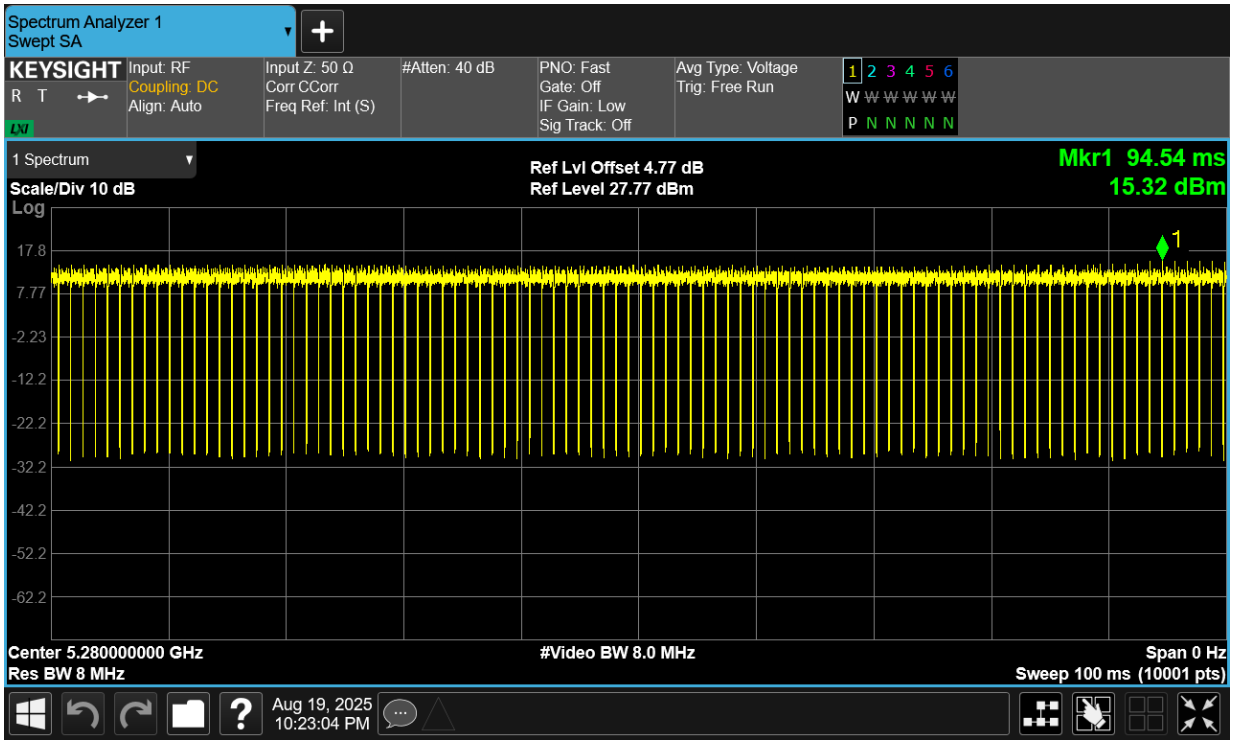
Duty Cycle NVNT ax20 5320MHz Ant1



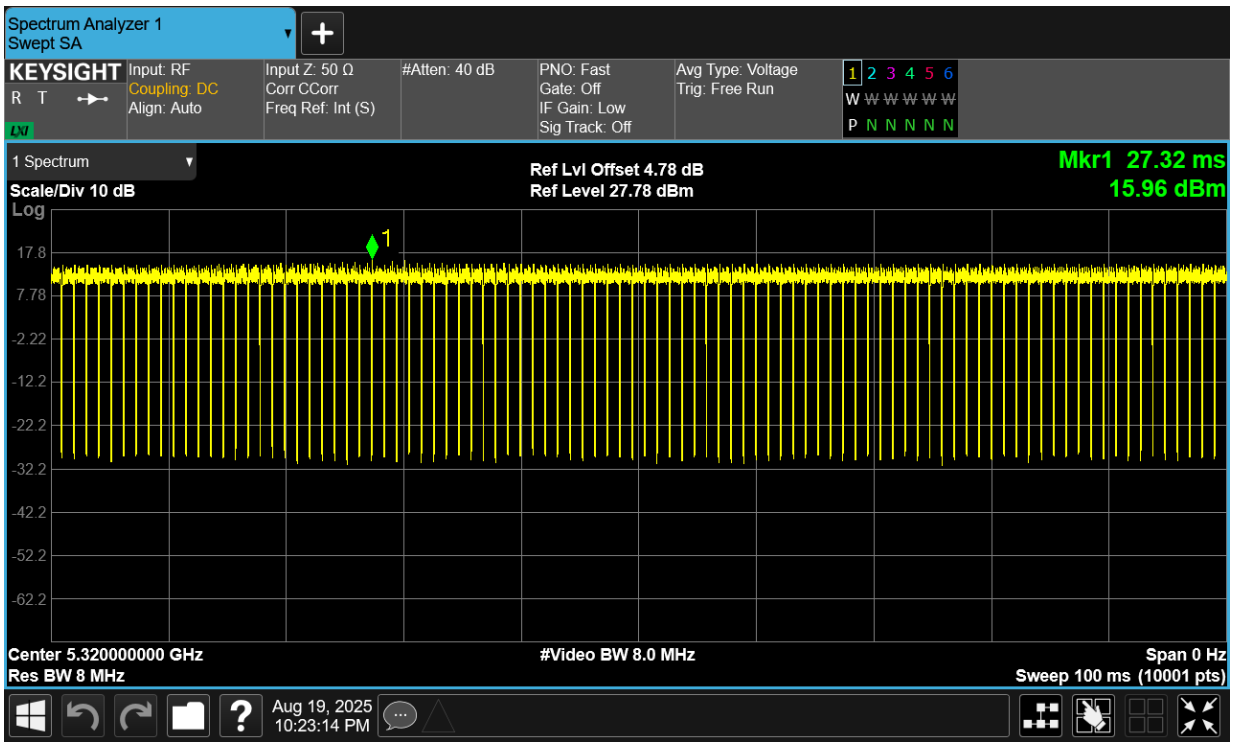
Duty Cycle NVNT n20 5260MHz Ant1



Duty Cycle NVNT n20 5280MHz Ant1



Duty Cycle NVNT n20 5320MHz Ant1



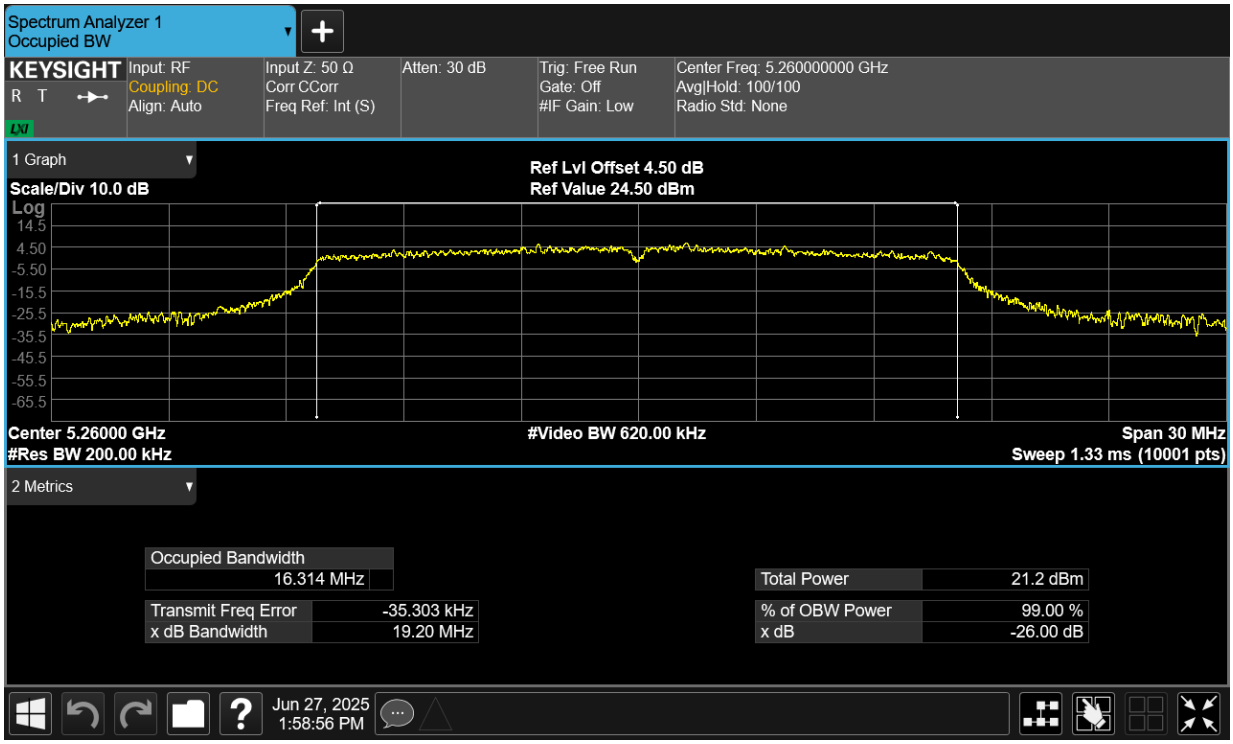
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	8.13	0.28	8.41	24	Pass
NVNT	a	5280	Ant1	8.12	0.3	8.42	24	Pass
NVNT	a	5320	Ant1	8.89	0.3	9.19	24	Pass
NVNT	ac20	5260	Ant1	8.4	0.3	8.7	24	Pass
NVNT	ac20	5280	Ant1	7.69	0.3	7.99	24	Pass
NVNT	ac20	5320	Ant1	8.69	0.3	8.99	24	Pass
NVNT	ax20	5260	Ant1	8.02	0.53	8.55	24	Pass
NVNT	ax20	5280	Ant1	7.58	0.55	8.13	24	Pass
NVNT	ax20	5320	Ant1	8.58	0.53	9.11	24	Pass
NVNT	n20	5260	Ant1	8.21	0.32	8.53	24	Pass
NVNT	n20	5280	Ant1	7.76	0.32	8.08	24	Pass
NVNT	n20	5320	Ant1	8.77	0.32	9.09	24	Pass

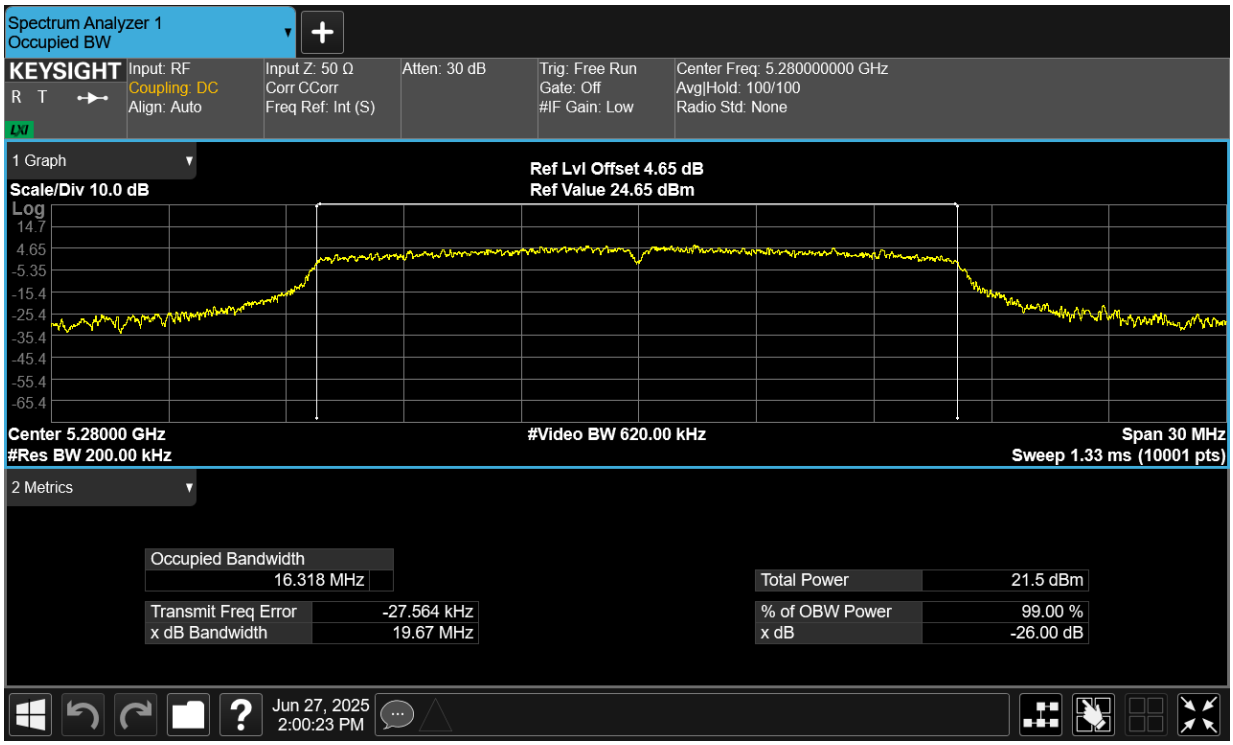
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.314
NVNT	a	5280	Ant1	16.318
NVNT	a	5320	Ant1	16.335
NVNT	ac20	5260	Ant1	17.509
NVNT	ac20	5280	Ant1	17.51
NVNT	ac20	5320	Ant1	17.502
NVNT	ax20	5260	Ant1	18.748
NVNT	ax20	5280	Ant1	18.761
NVNT	ax20	5320	Ant1	18.774
NVNT	n20	5260	Ant1	17.487
NVNT	n20	5280	Ant1	17.51
NVNT	n20	5320	Ant1	17.49

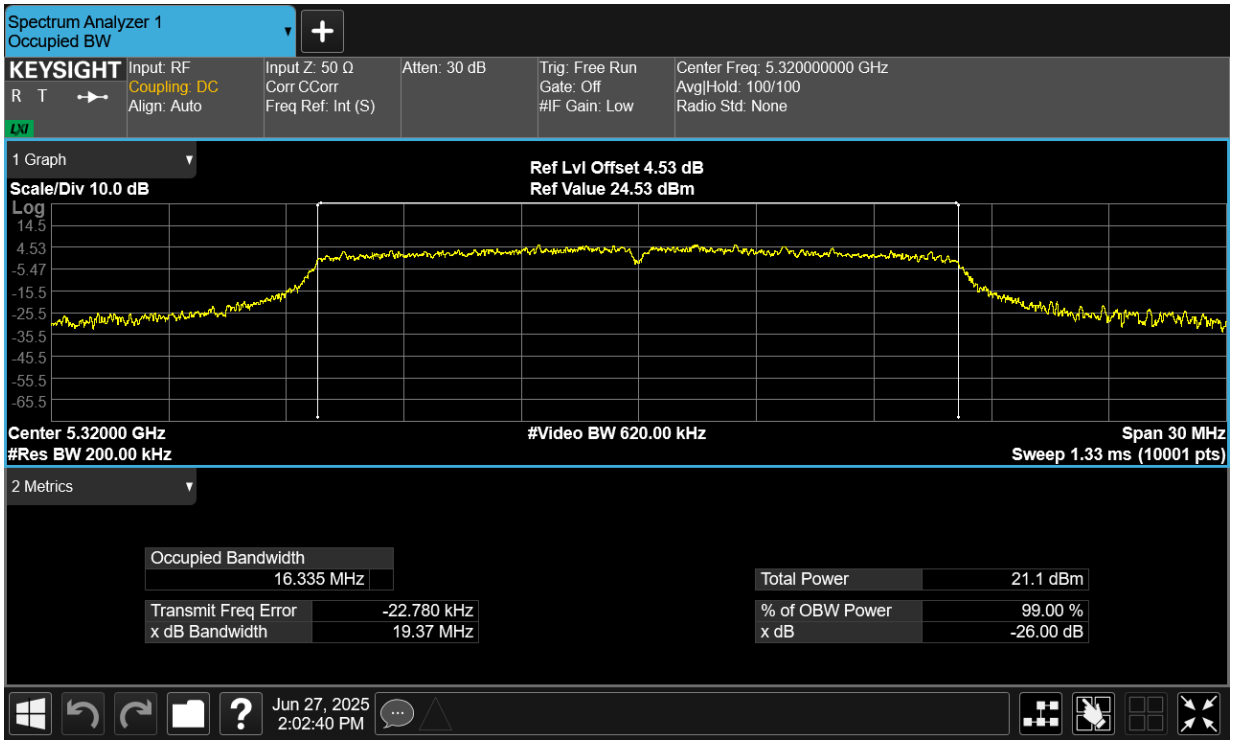
Test Graphs
OBW NVNT a 5260MHz Ant1



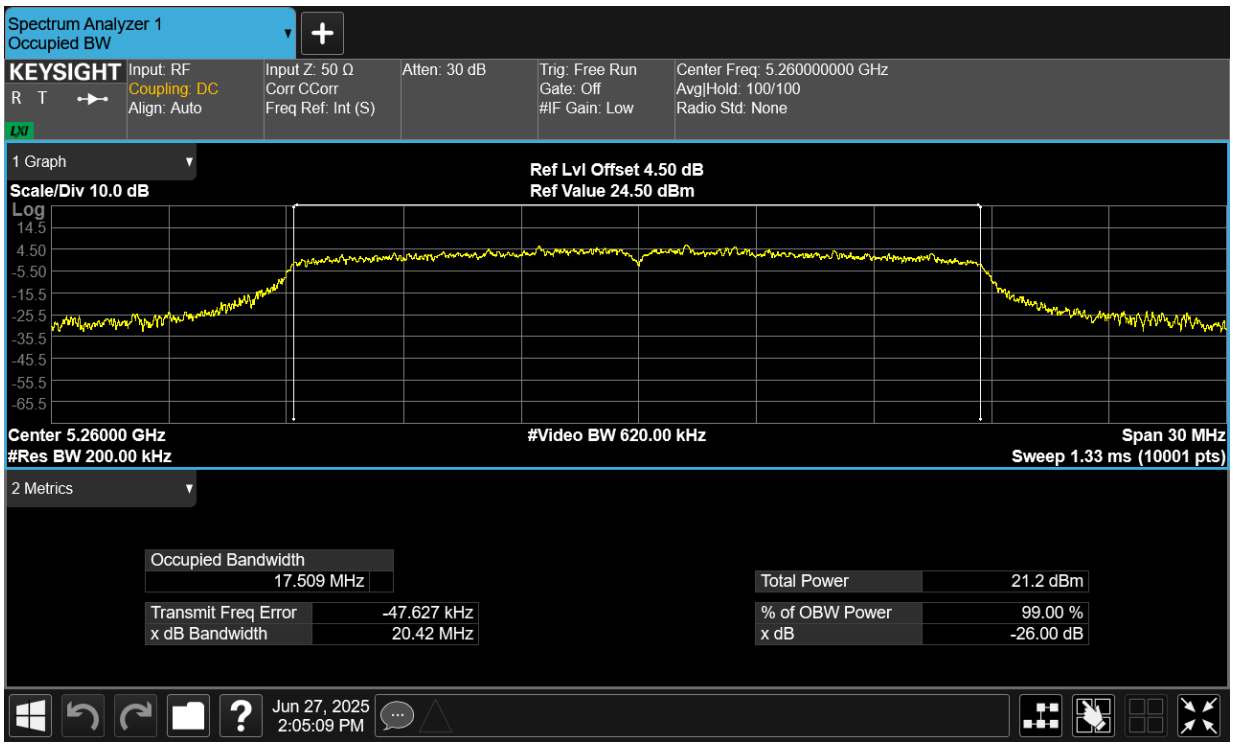
OBW NVNT a 5280MHz Ant1



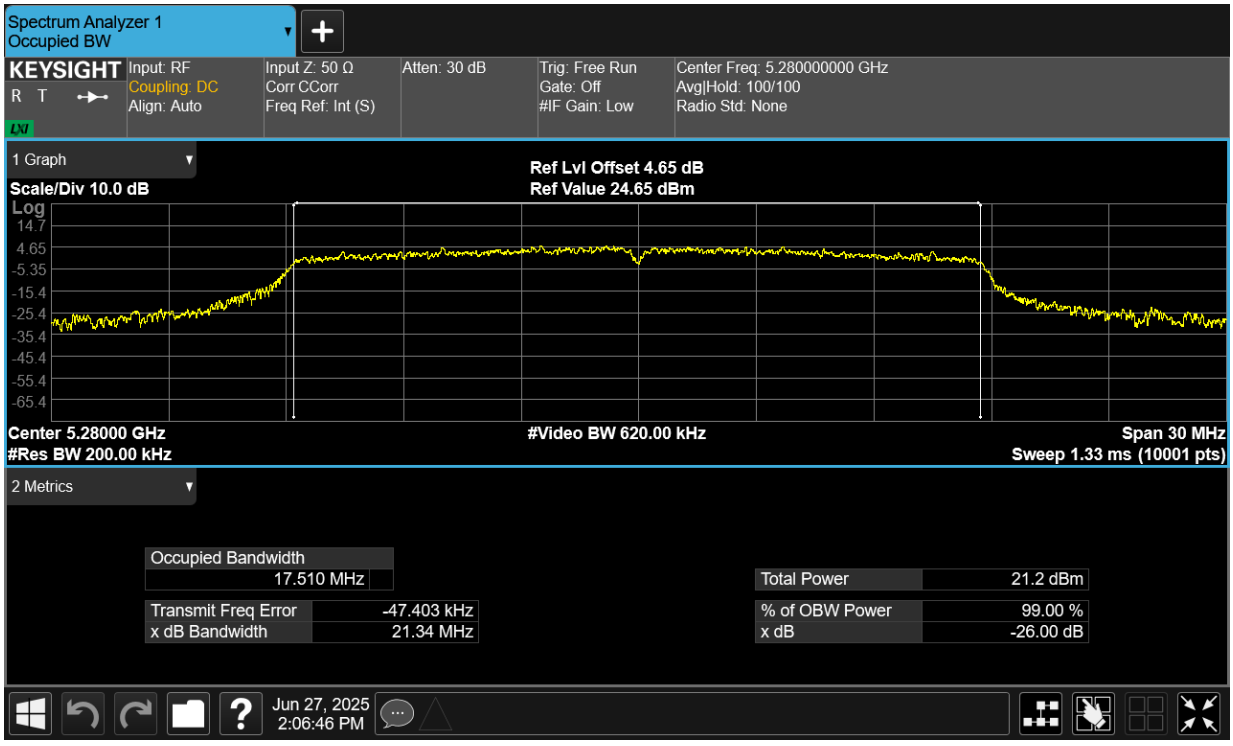
OBW NVNT a 5320MHz Ant1



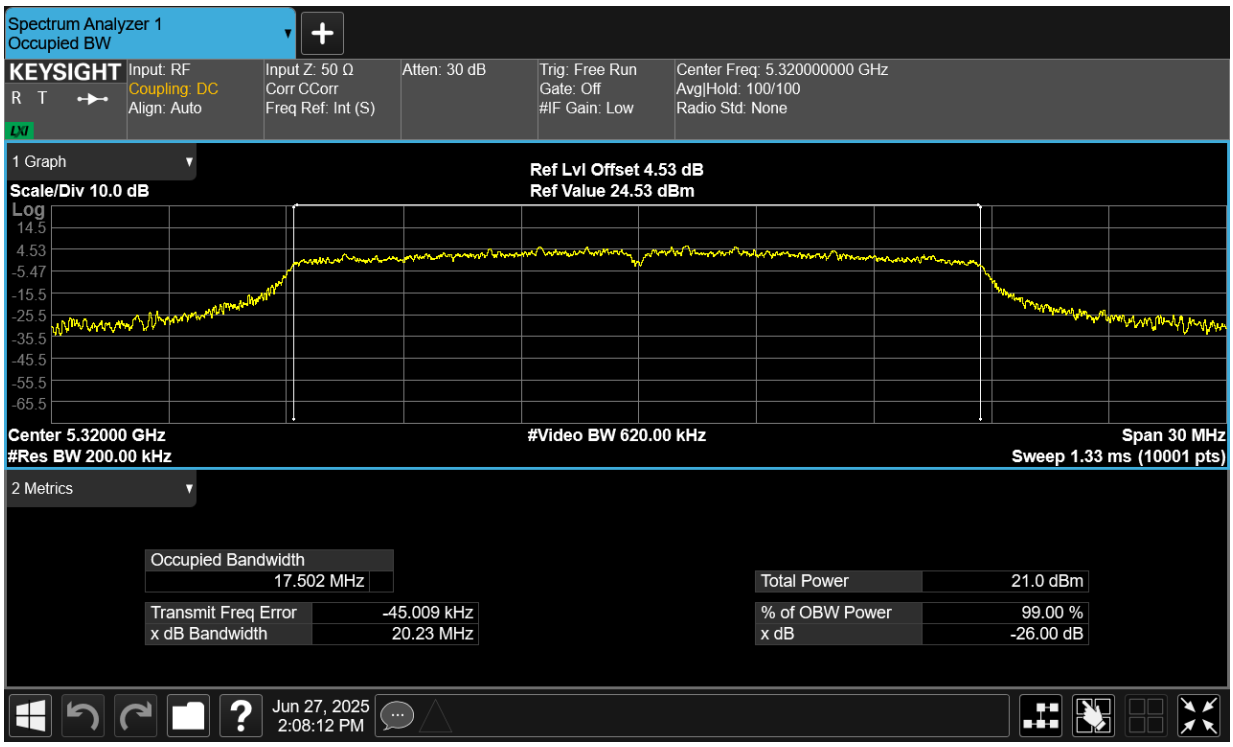
OBW NVNT ac20 5260MHz Ant1



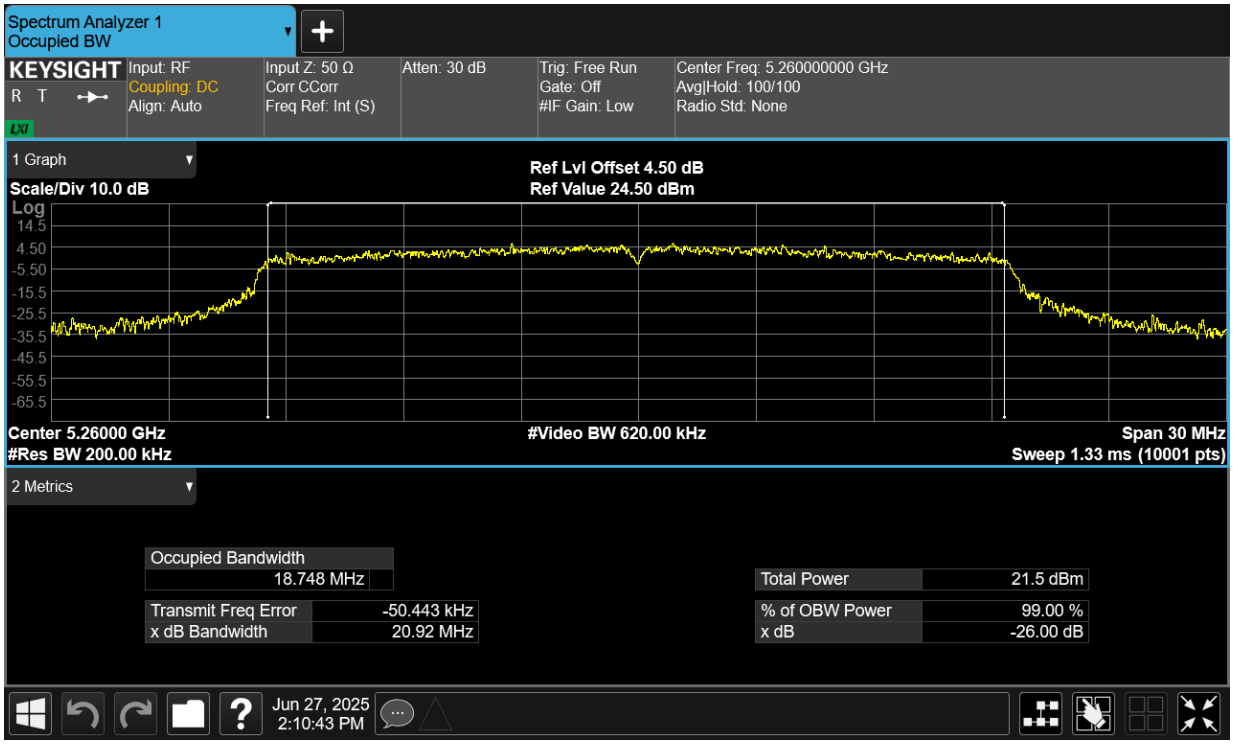
OBW NVNT ac20 5280MHz Ant1



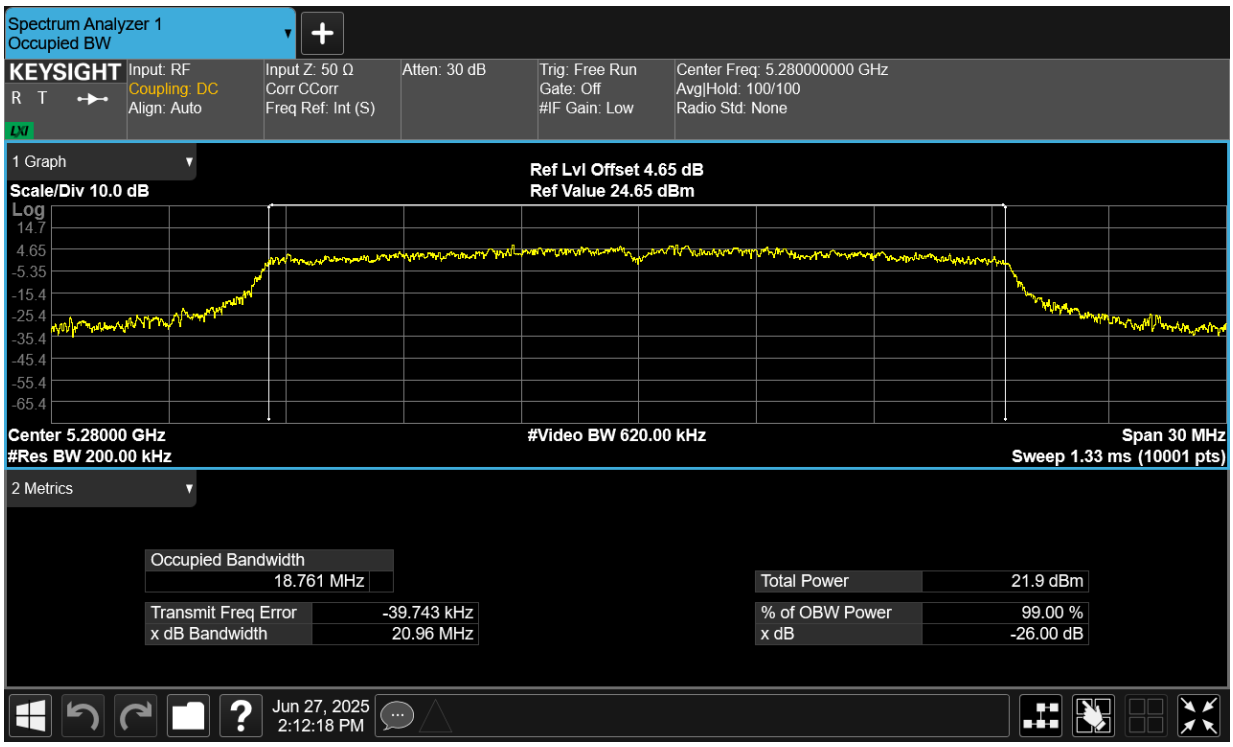
OBW NVNT ac20 5320MHz Ant1



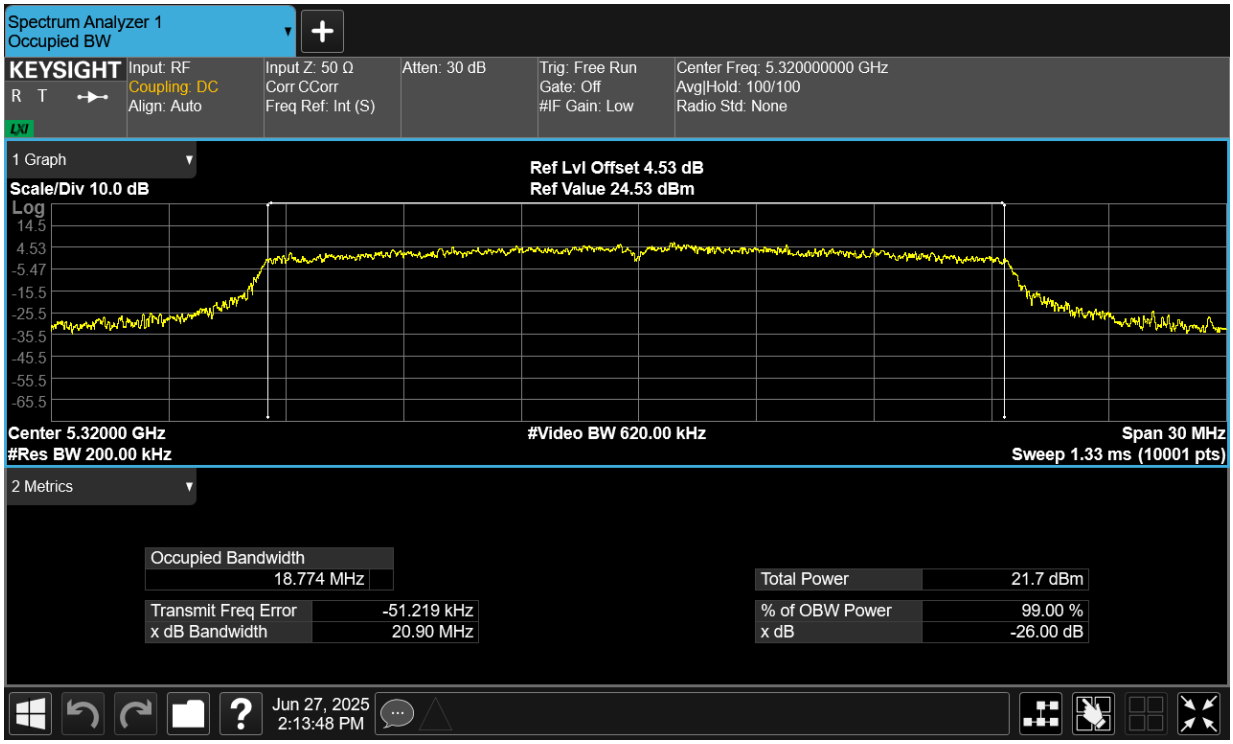
OBW NVNT ax20 5260MHz Ant1



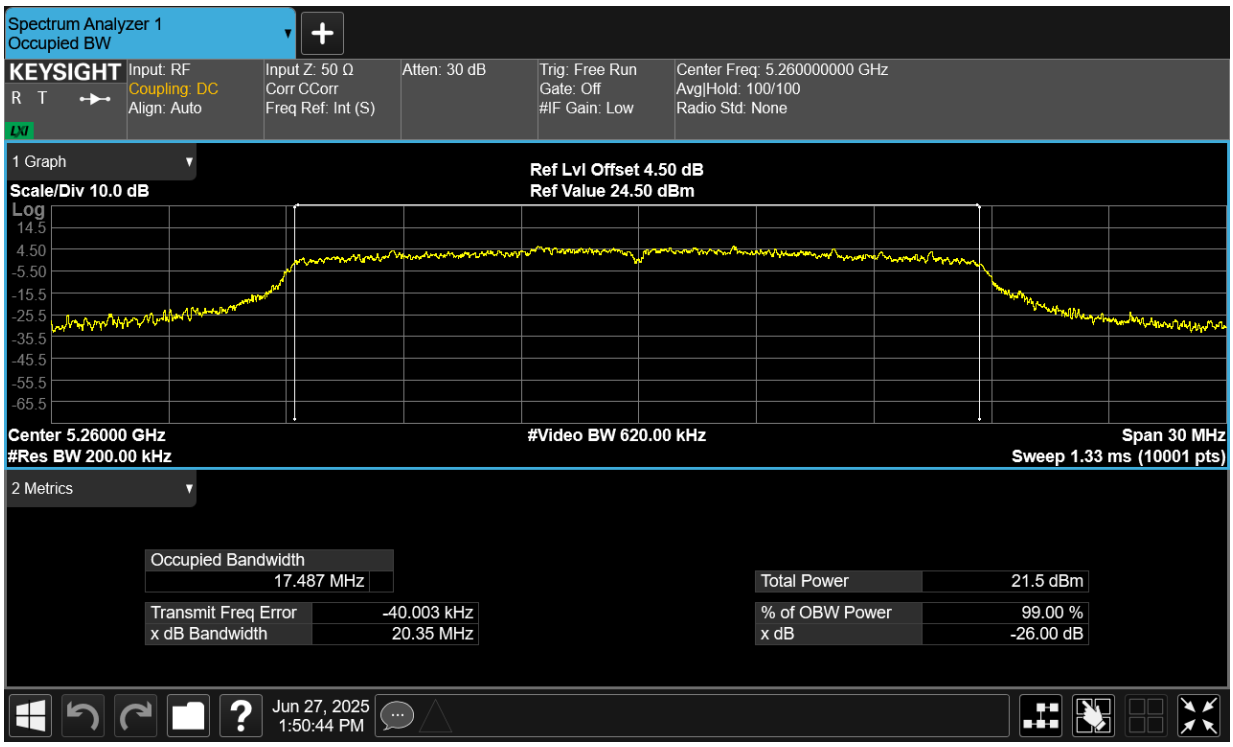
OBW NVNT ax20 5280MHz Ant1



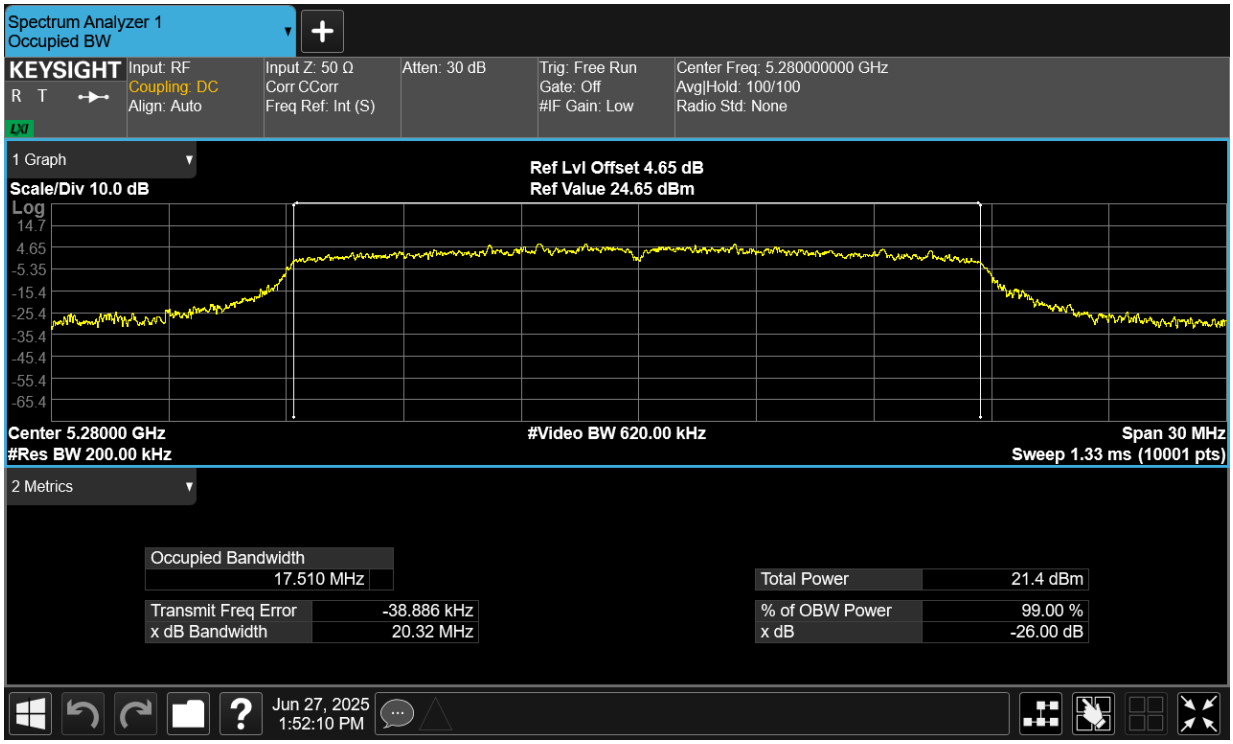
OBW NVNT ax20 5320MHz Ant1



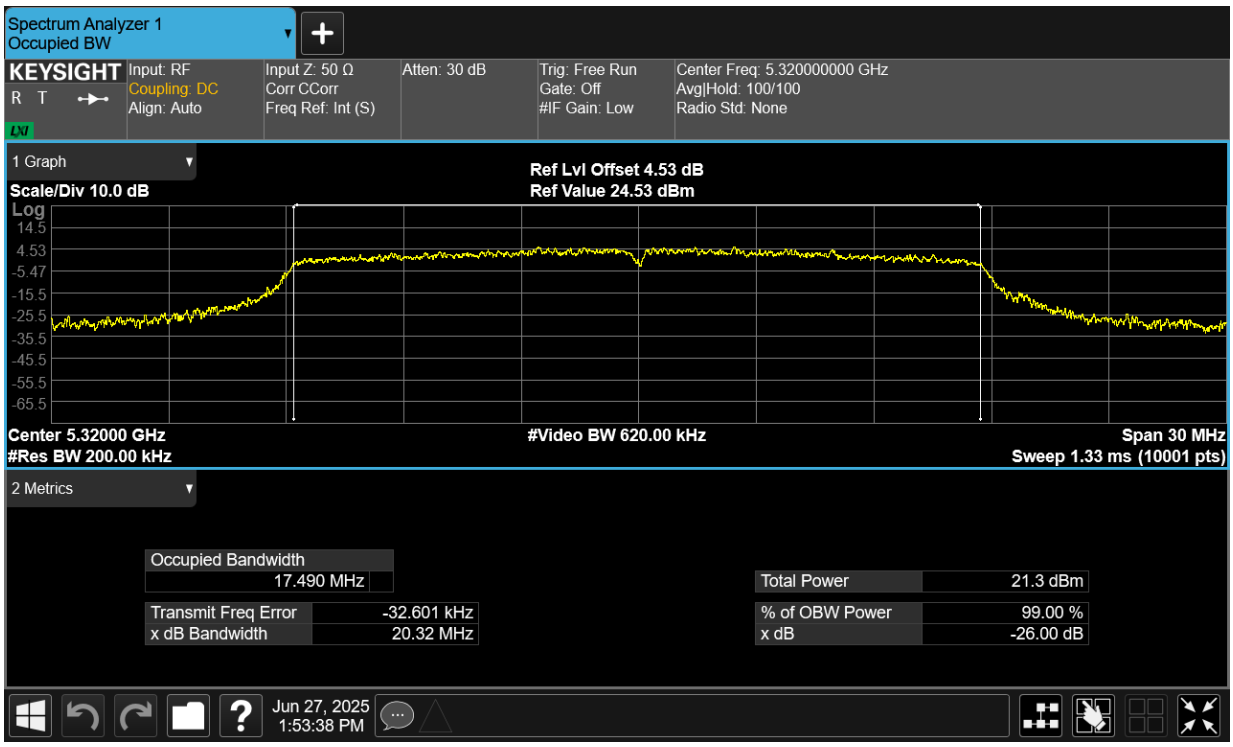
OBW NVNT n20 5260MHz Ant1



OBW NVNT n20 5280MHz Ant1



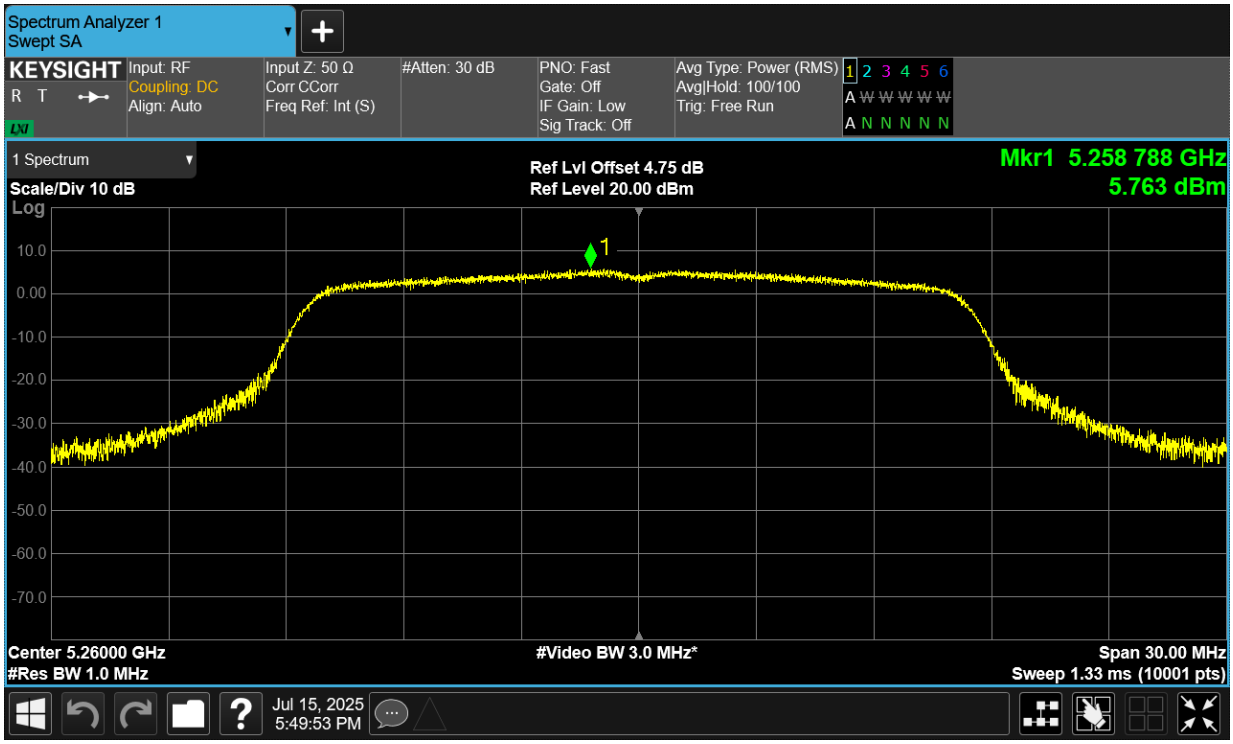
OBW NVNT n20 5320MHz Ant1



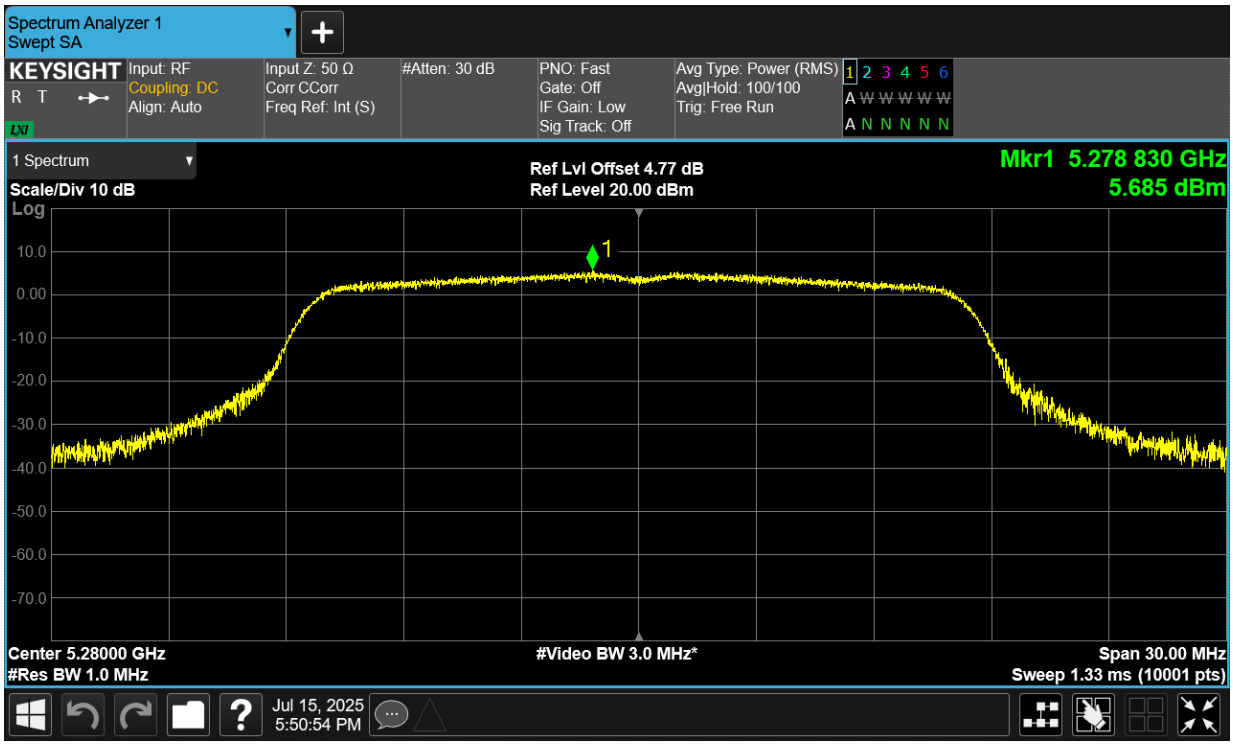
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Duty Factor (dB)	Max PSD (dBm/MHz)	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant1	0.28	5.763	6.043	11	Pass
NVNT	a	5280	Ant1	0.3	5.685	5.985	11	Pass
NVNT	a	5320	Ant1	0.3	5.77	6.07	11	Pass
NVNT	ac20	5260	Ant1	0.3	5.296	5.596	11	Pass
NVNT	ac20	5280	Ant1	0.3	5.144	5.444	11	Pass
NVNT	ac20	5320	Ant1	0.3	5.921	6.221	11	Pass
NVNT	ax20	5260	Ant1	0.53	4.809	5.339	11	Pass
NVNT	ax20	5280	Ant1	0.55	5.19	5.74	11	Pass
NVNT	ax20	5320	Ant1	0.53	5.419	5.949	11	Pass
NVNT	n20	5260	Ant1	0.32	5.145	5.465	11	Pass
NVNT	n20	5280	Ant1	0.32	5.279	5.599	11	Pass
NVNT	n20	5320	Ant1	0.32	5.422	5.742	11	Pass

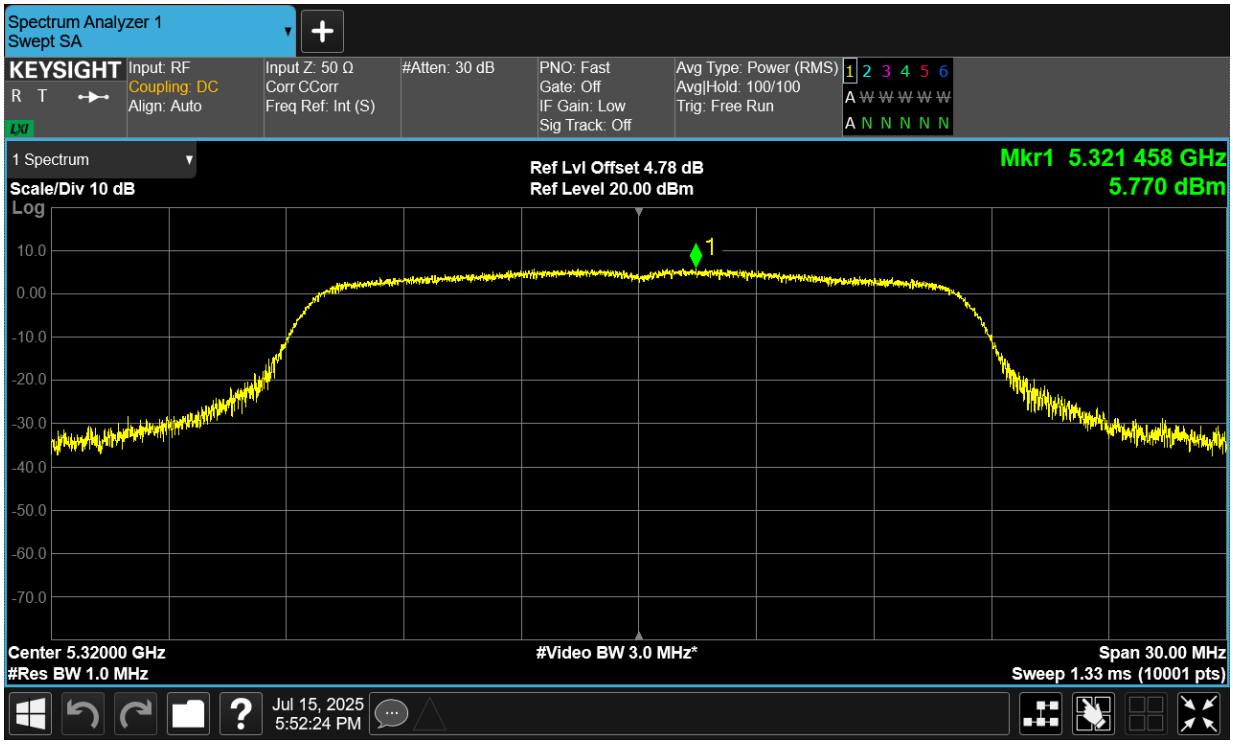
Test Graphs
PSD NVNT a 5260MHz Ant1



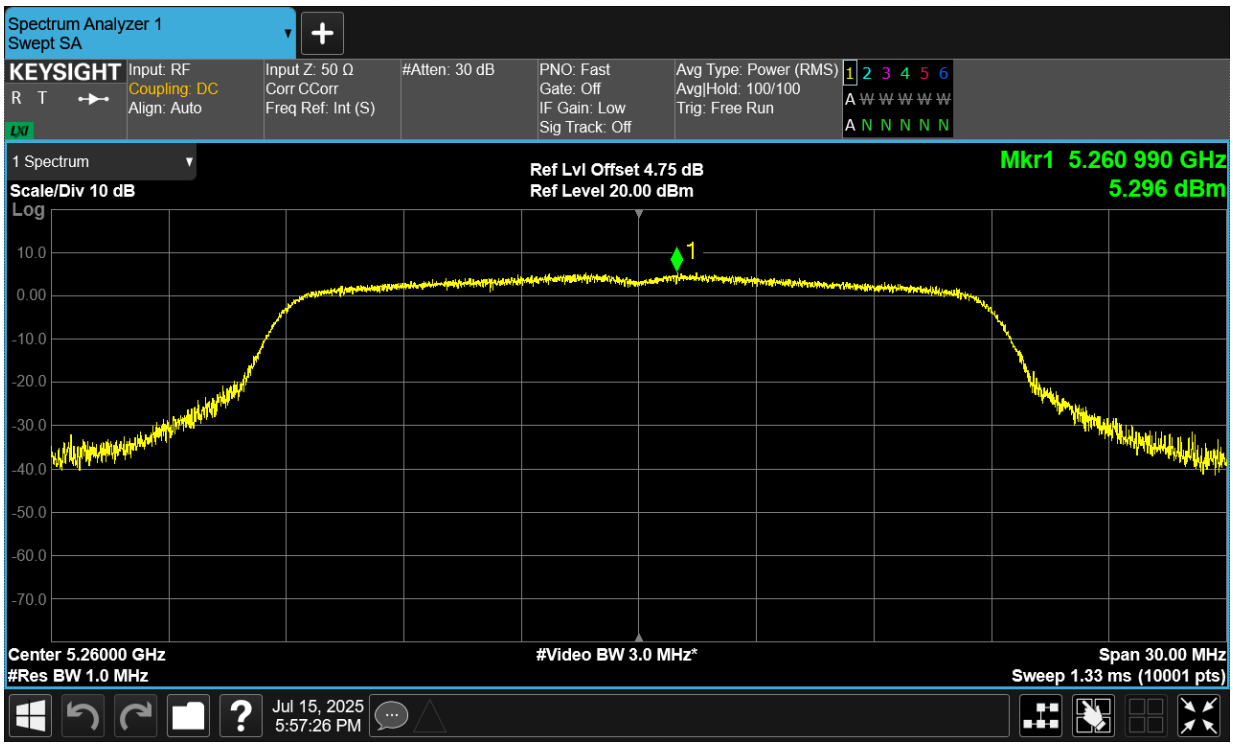
PSD NVNT a 5280MHz Ant1



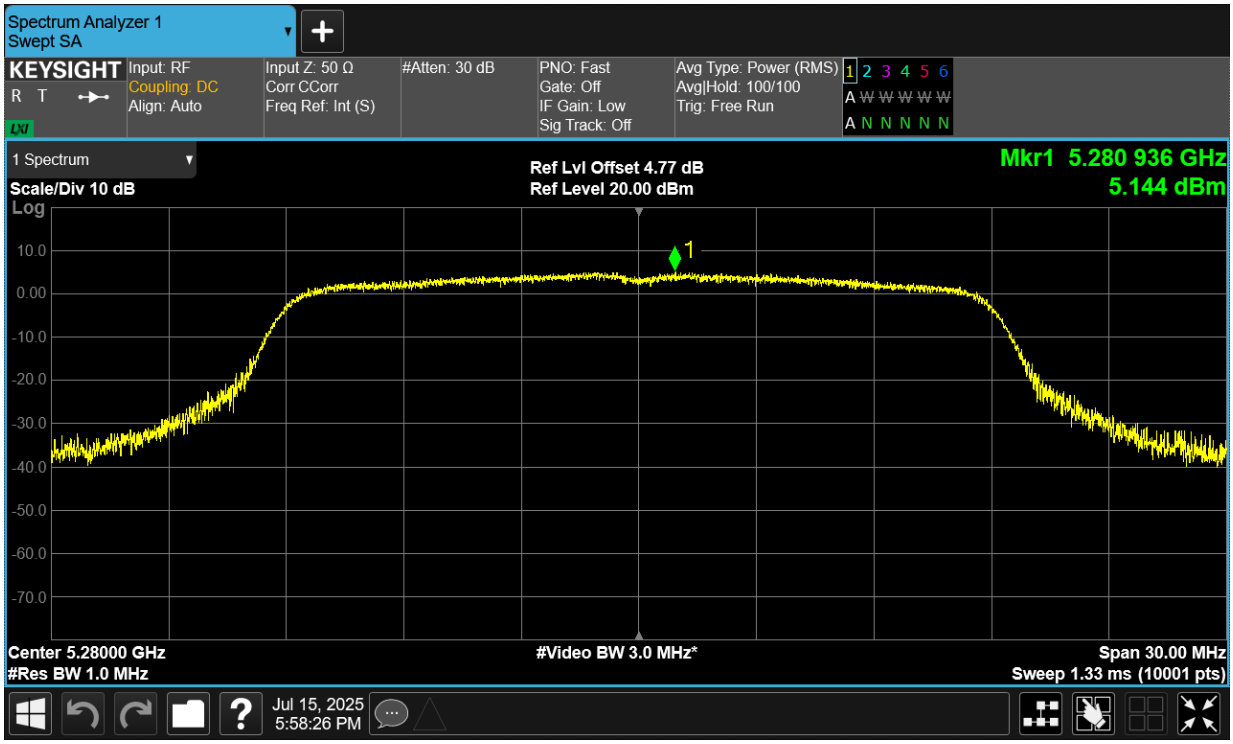
PSD NVNT a 5320MHz Ant1



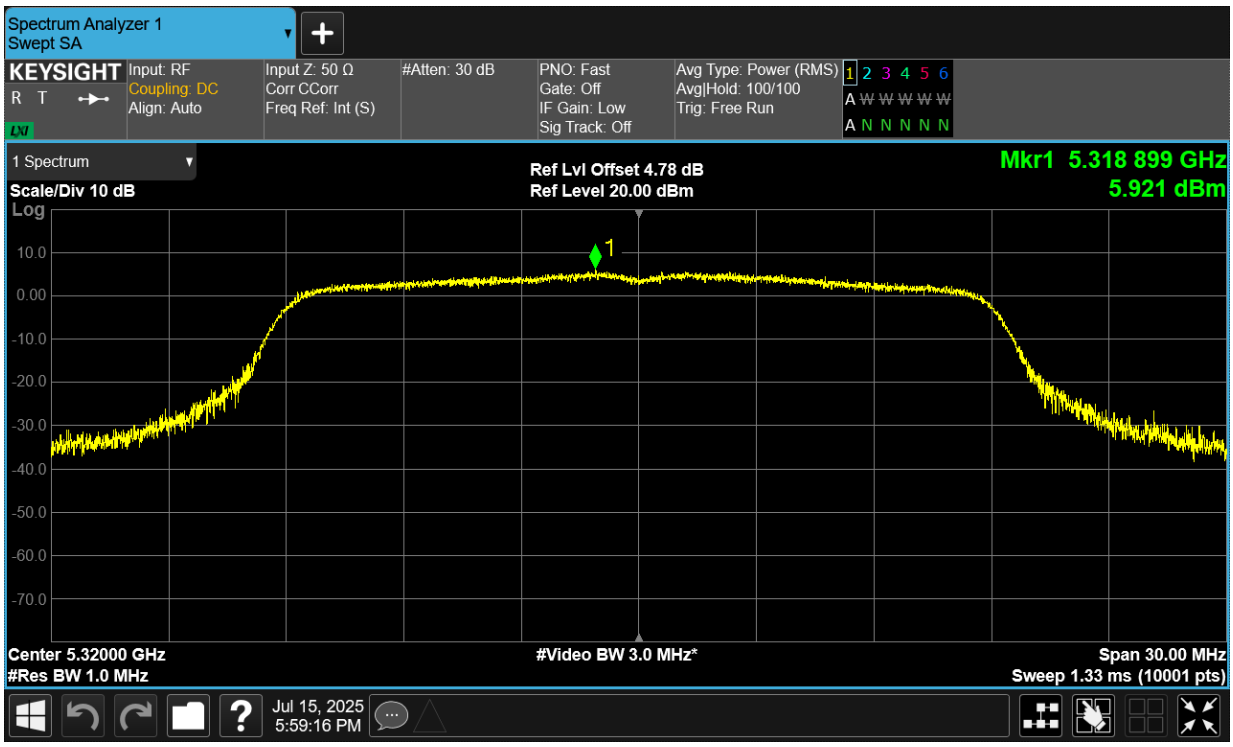
PSD NVNT ac20 5260MHz Ant1



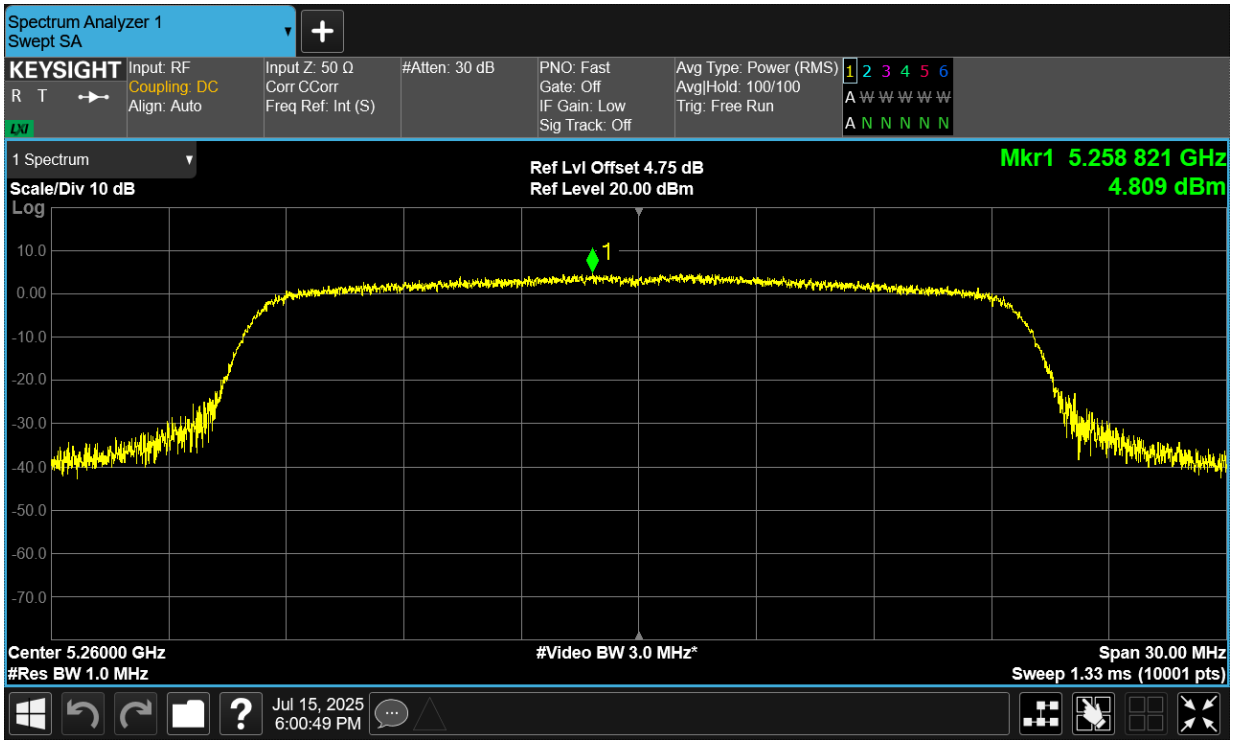
PSD NVNT ac20 5280MHz Ant1



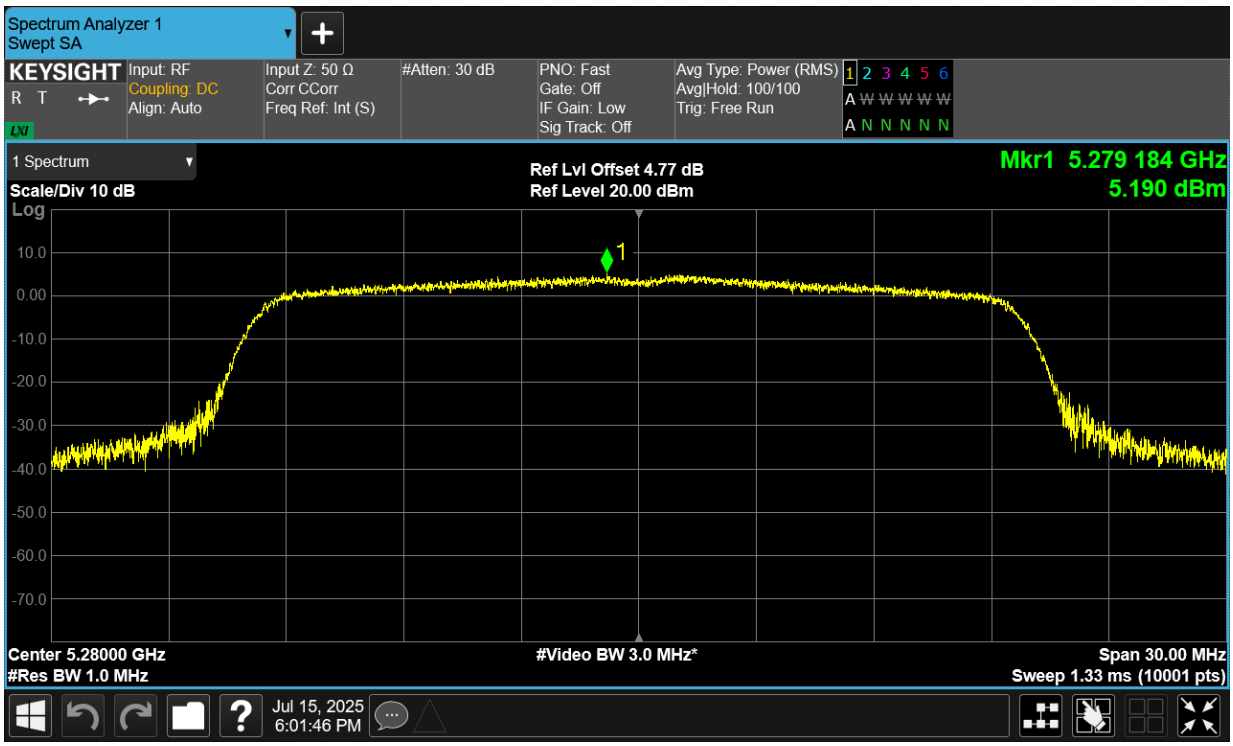
PSD NVNT ac20 5320MHz Ant1



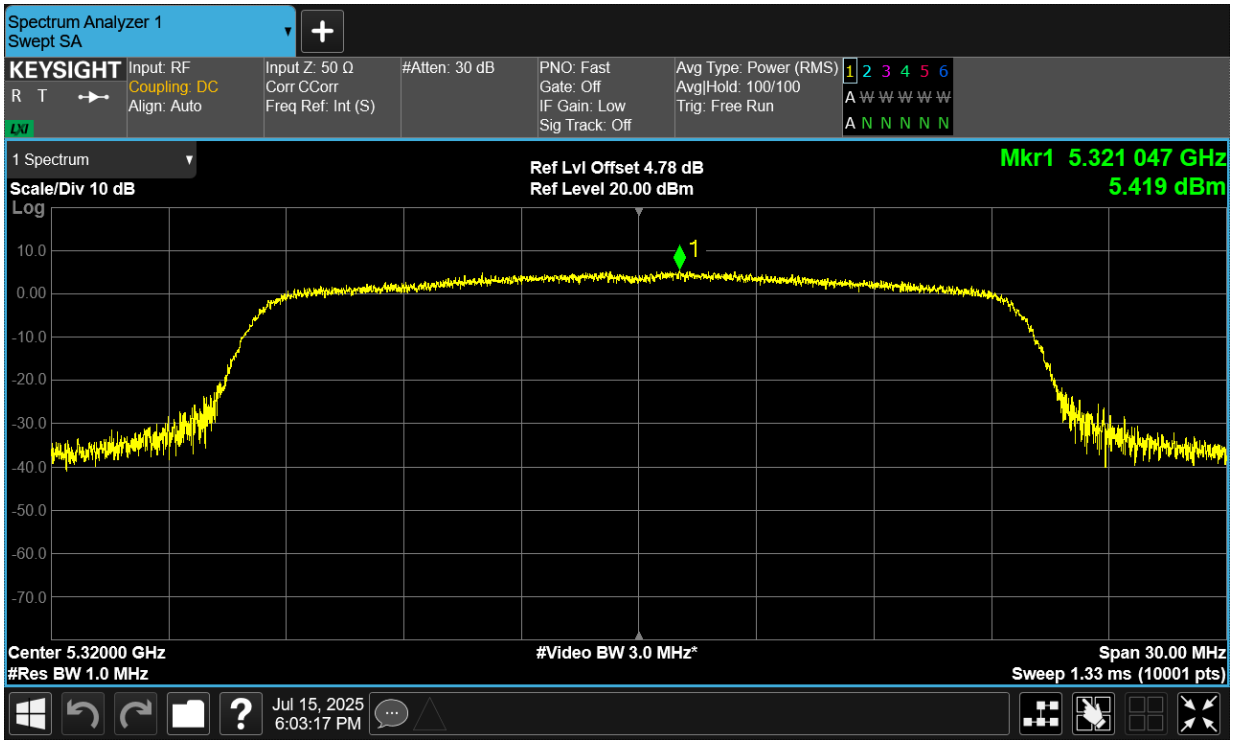
PSD NVNT ax20 5260MHz Ant1



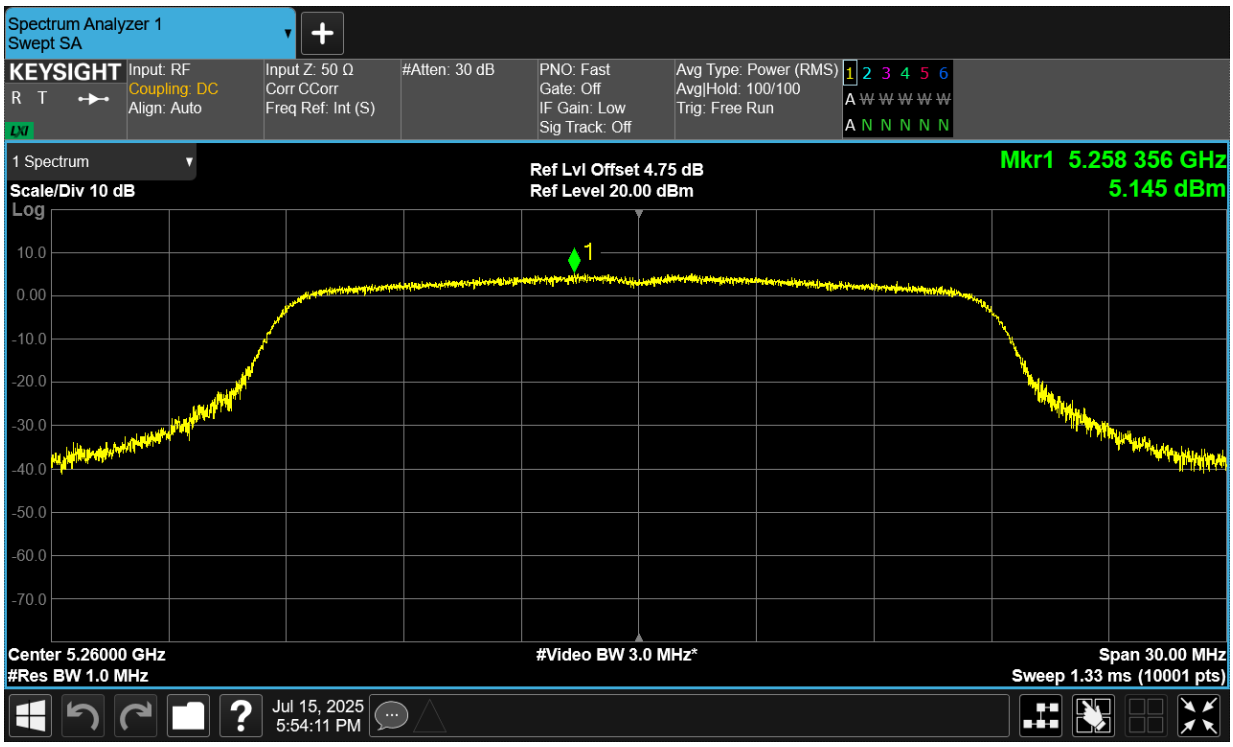
PSD NVNT ax20 5280MHz Ant1



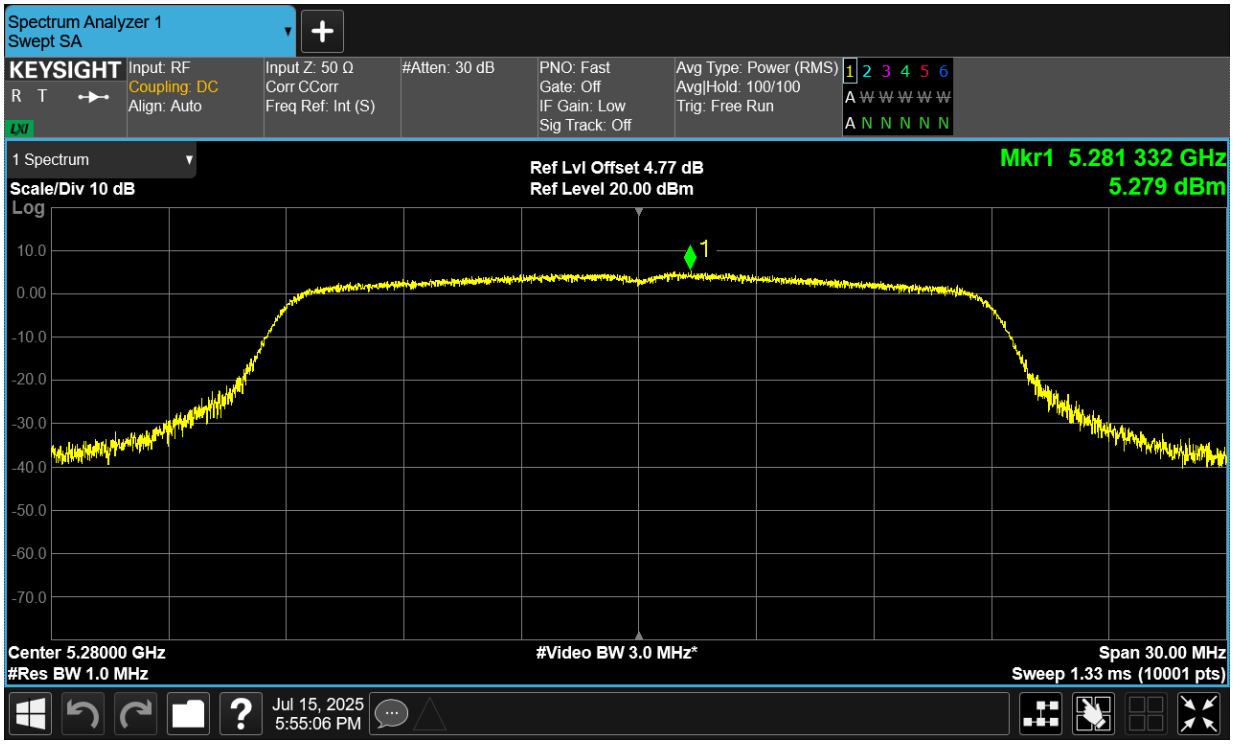
PSD NVNT ax20 5320MHz Ant1



PSD NVNT n20 5260MHz Ant1



PSD NVNT n20 5280MHz Ant1



PSD NVNT n20 5320MHz Ant1