

Test Data

Frequency Stability

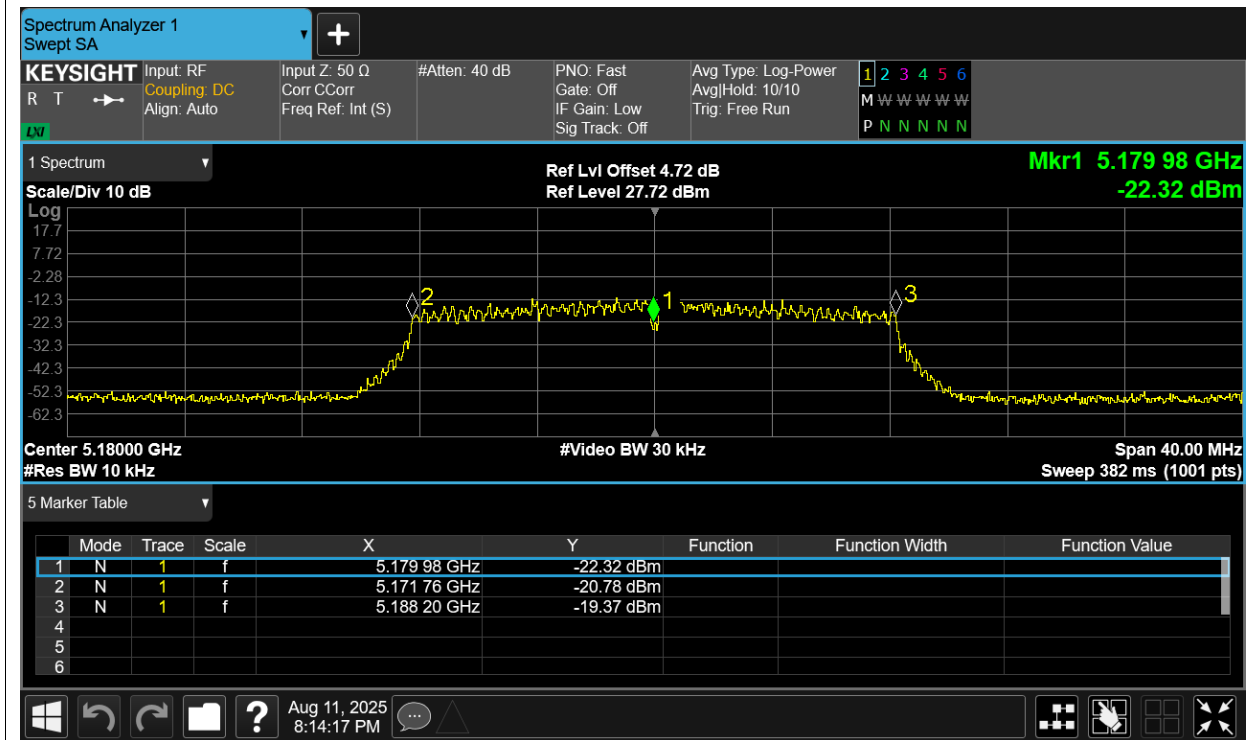
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5180	Ant1	5179.98	-3.86	Within authorized band	Pass
LVNT	a	5180	Ant1	5179.98	-3.86		Pass
NVHT	a	5180	Ant1	5179.96	-7.72		Pass
NVLT	a	5180	Ant1	5180	0		Pass
NVNT	a	5180	Ant1	5179.96	-7.72		Pass

Remark:

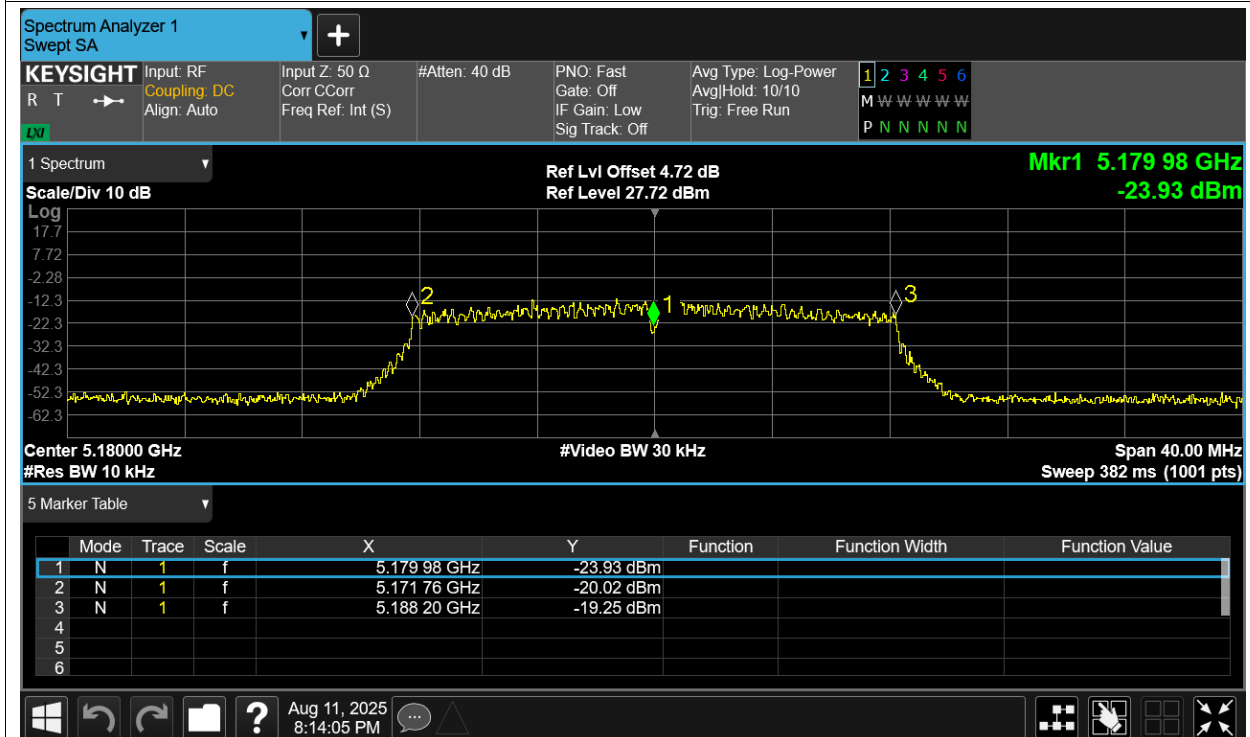
- “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.
- Pre-scan 802.11a, n, ac, ax modulation mode, found 5.2GHz Wi-Fi ANT0 802.11a modulation was worse case mode. only reflects the test data of worst mode

Test Graphs

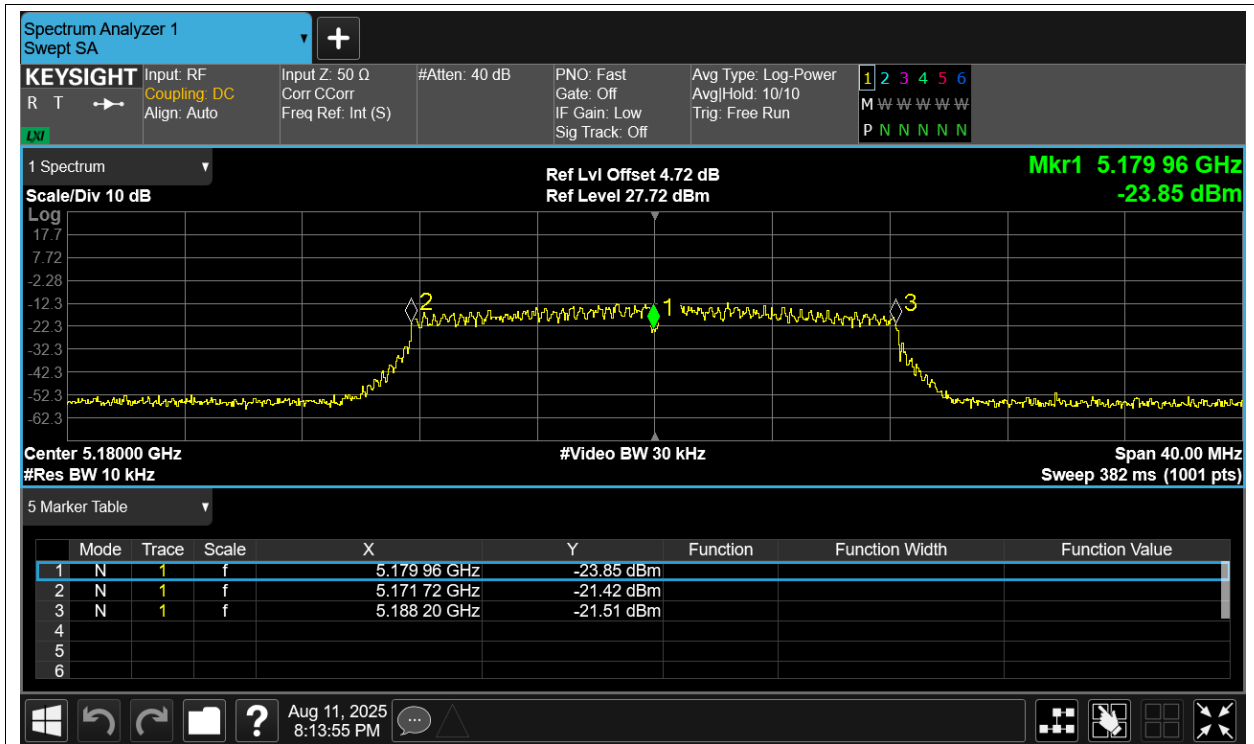
Freq. Stability HVNT a 5180MHz Ant1



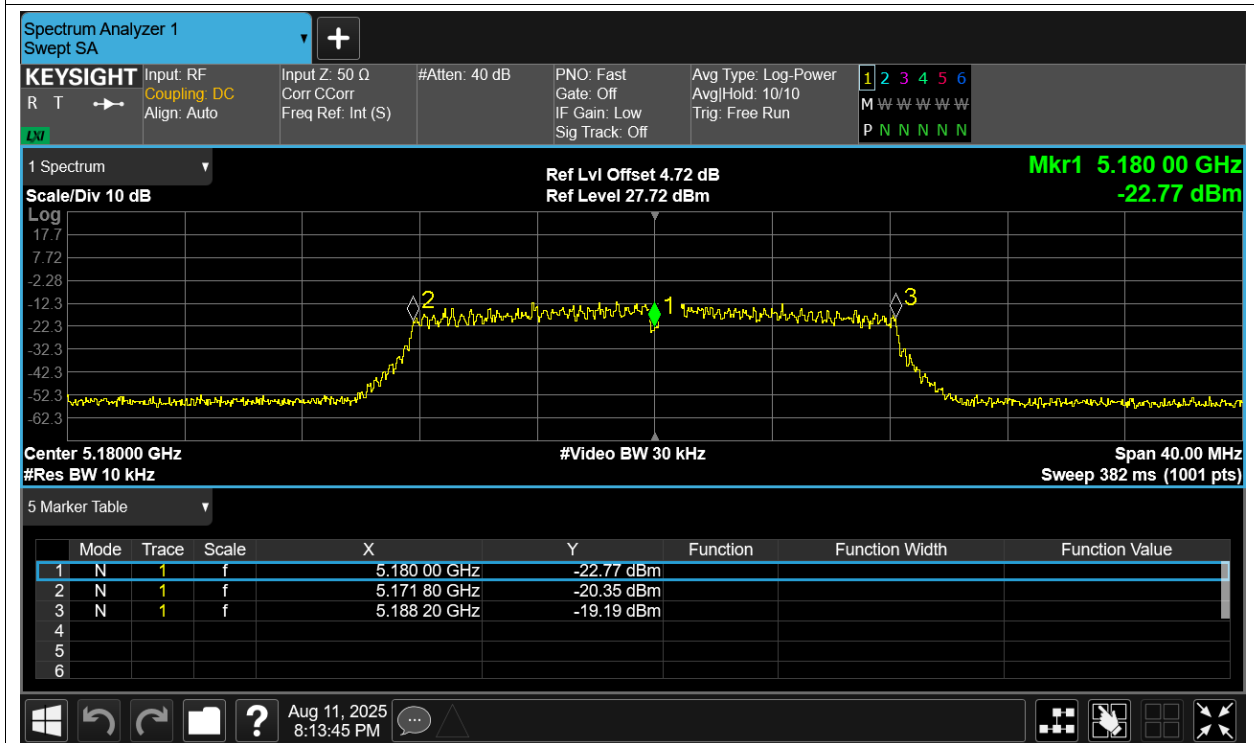
Freq. Stability LVNT a 5180MHz Ant1



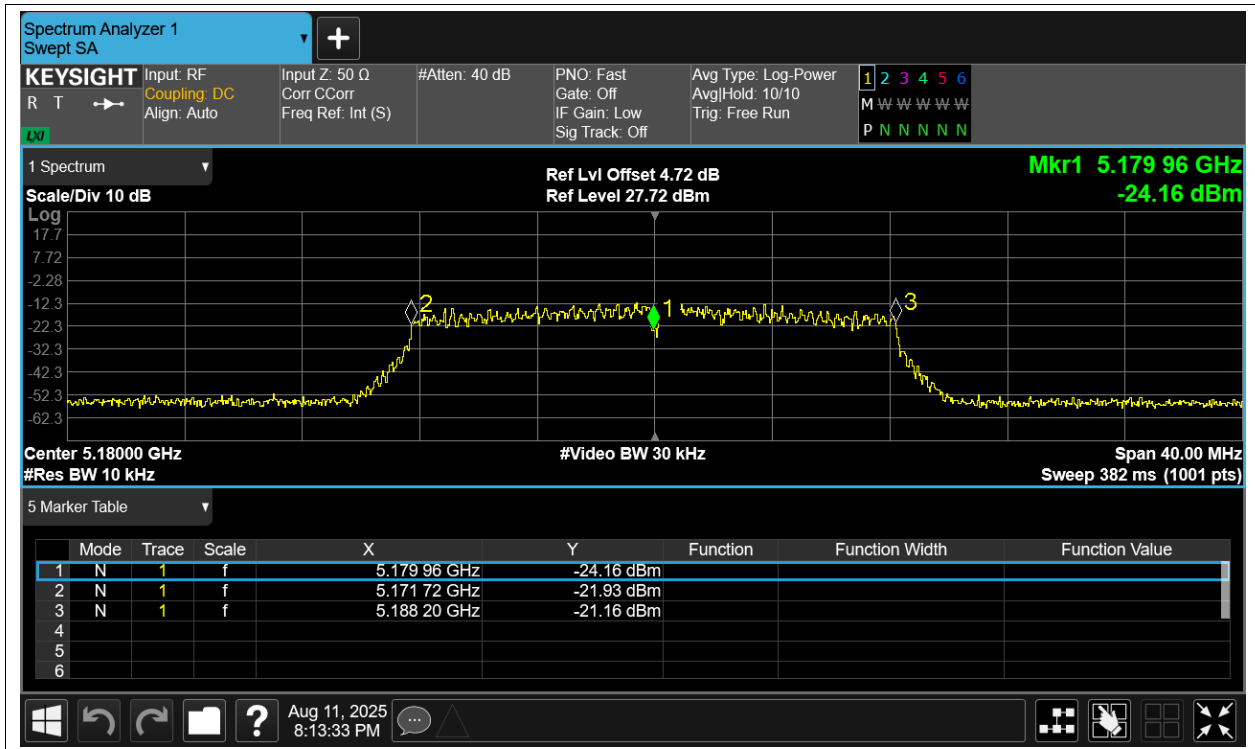
Freq. Stability NVHT a 5180MHz Ant1



Freq. Stability NVLT a 5180MHz Ant1



Freq. Stability NVNT a 5180MHz Ant1

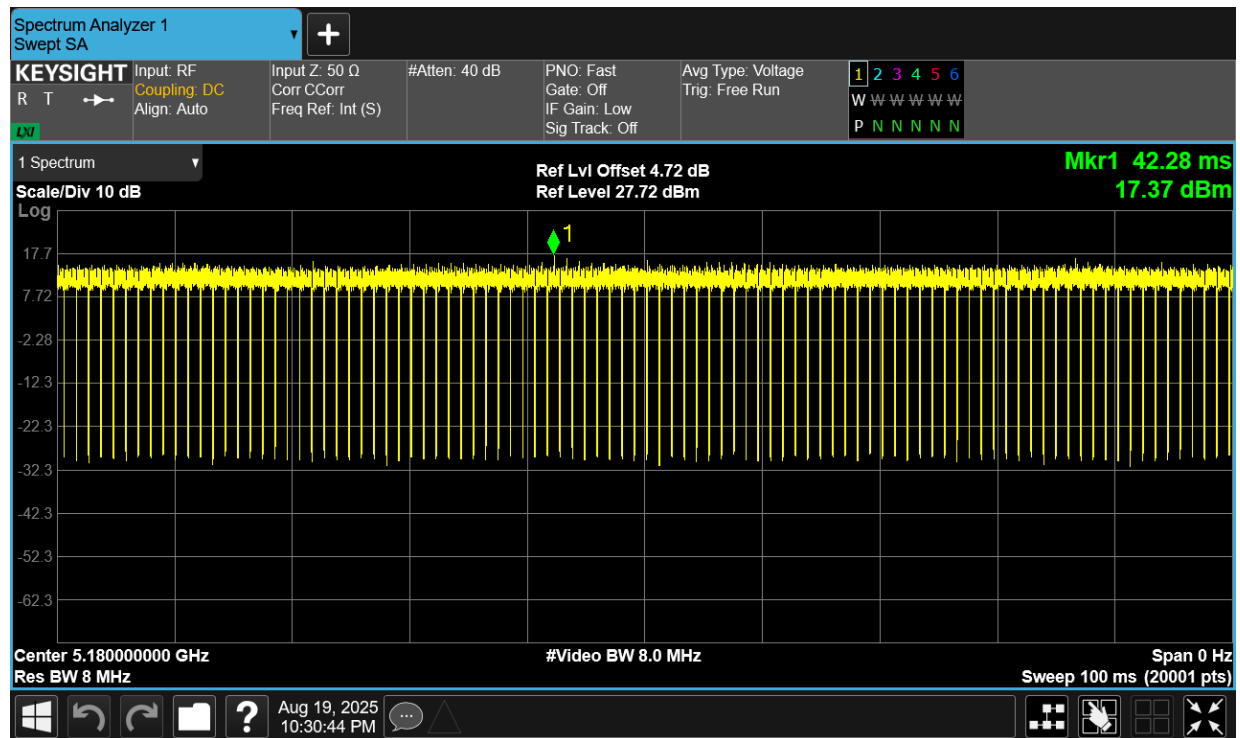


Duty Cycle

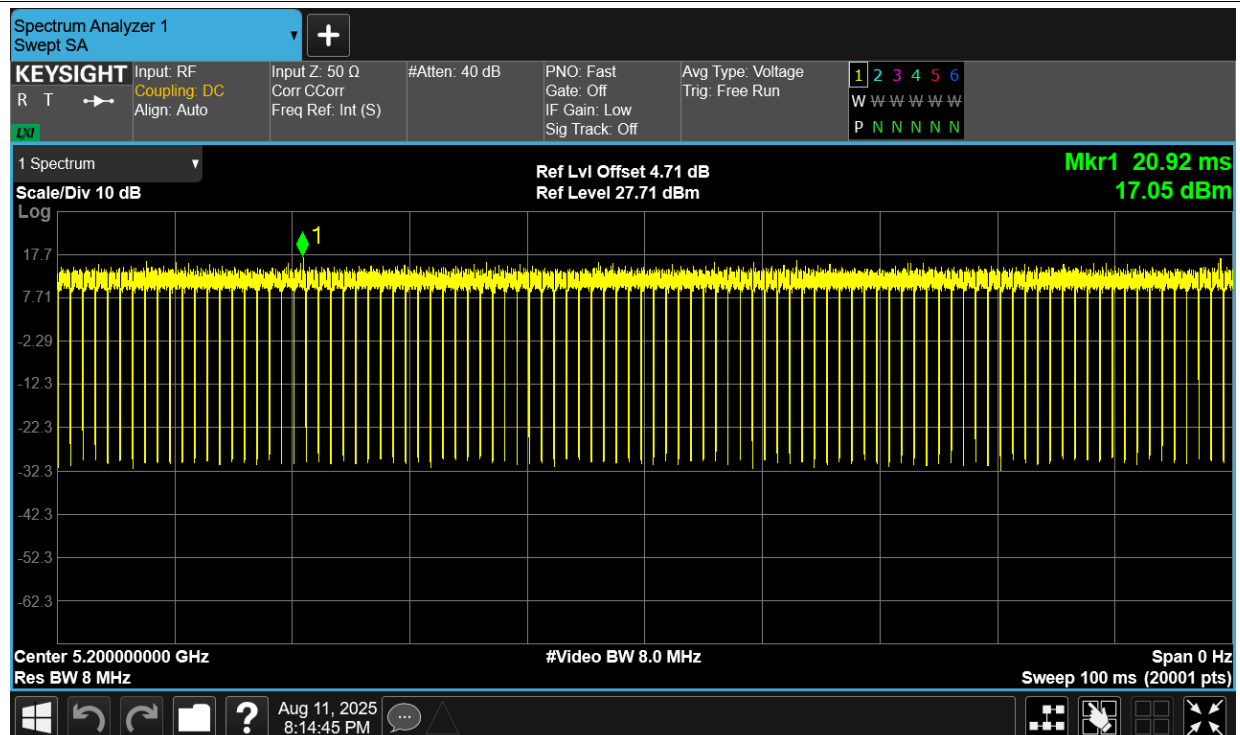
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	92.88	0.32
NVNT	a	5200	Ant1	92.94	0.32
NVNT	a	5240	Ant1	93.35	0.3
NVNT	ac20	5180	Ant1	92.88	0.32
NVNT	ac20	5200	Ant1	92.88	0.32
NVNT	ac20	5240	Ant1	92.41	0.34
NVNT	ax20	5180	Ant1	88.13	0.55
NVNT	ax20	5200	Ant1	88.19	0.55
NVNT	ax20	5240	Ant1	88.13	0.55
NVNT	n20	5180	Ant1	92.4	0.34
NVNT	n20	5200	Ant1	91.93	0.37
NVNT	n20	5240	Ant1	92.4	0.34

Test Graphs

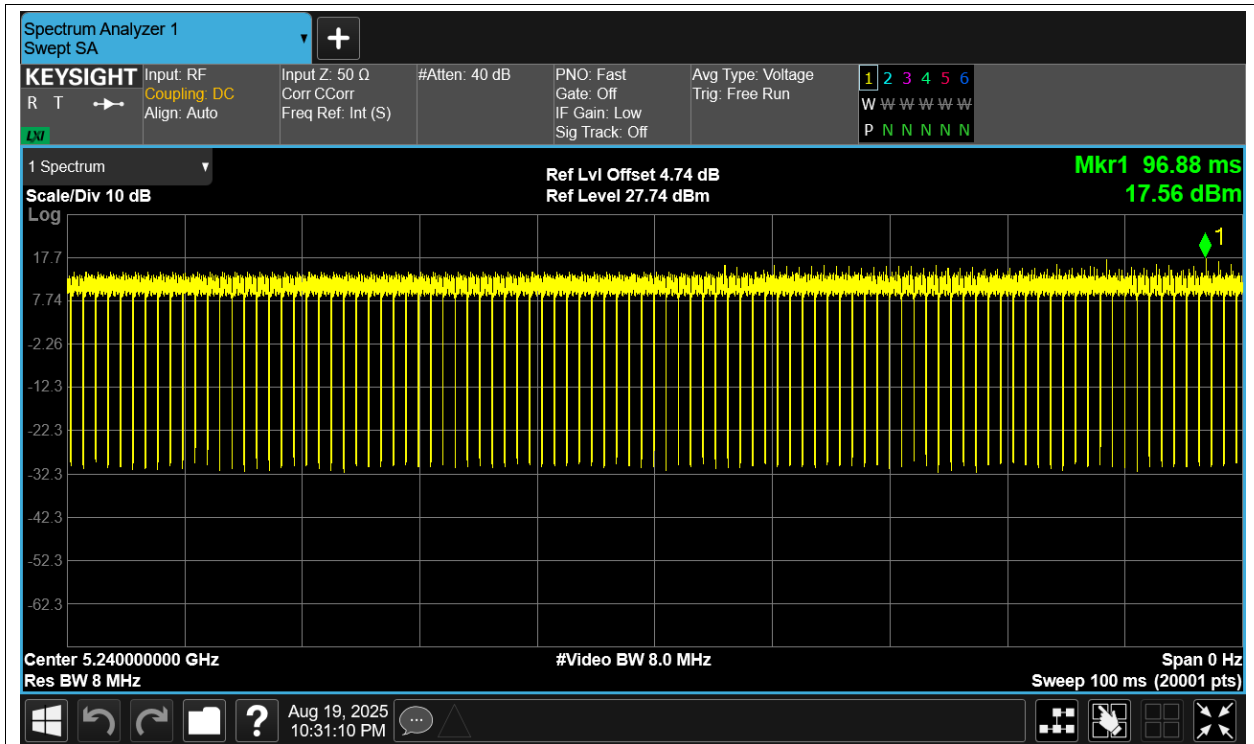
Duty Cycle NVNT a 5180MHz Ant1



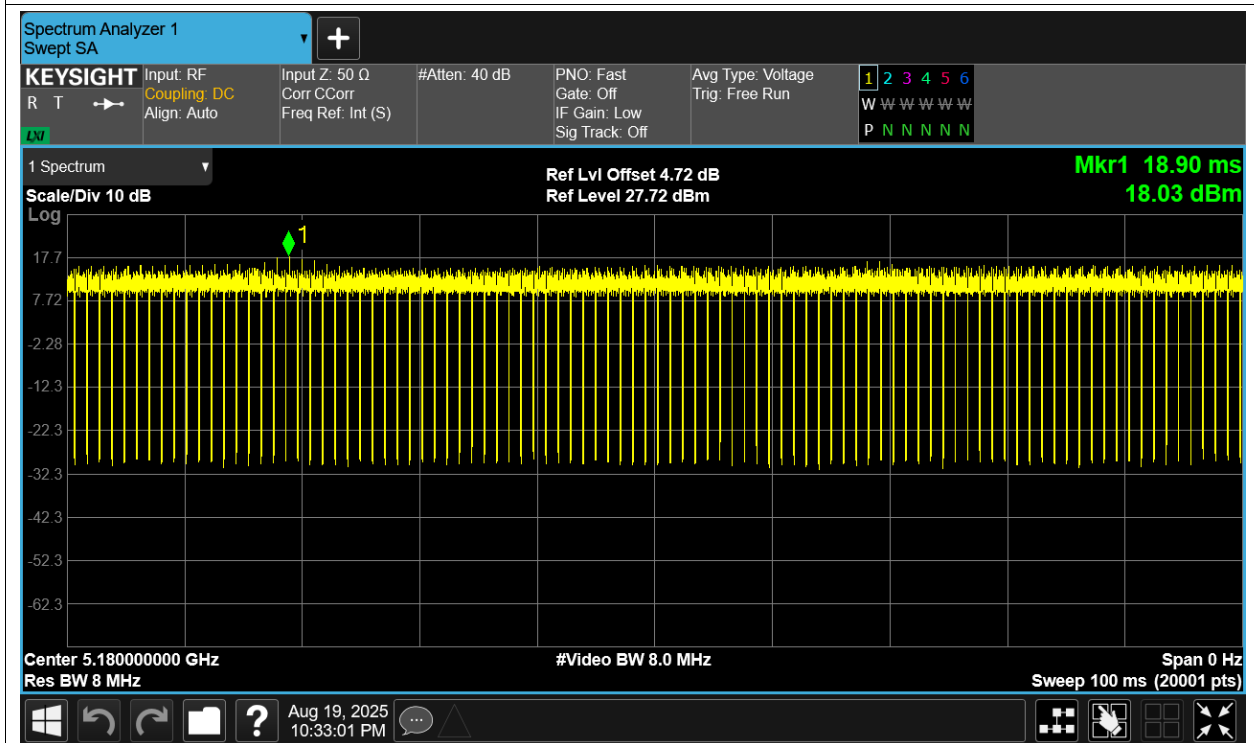
Duty Cycle NVNT a 5200MHz Ant1



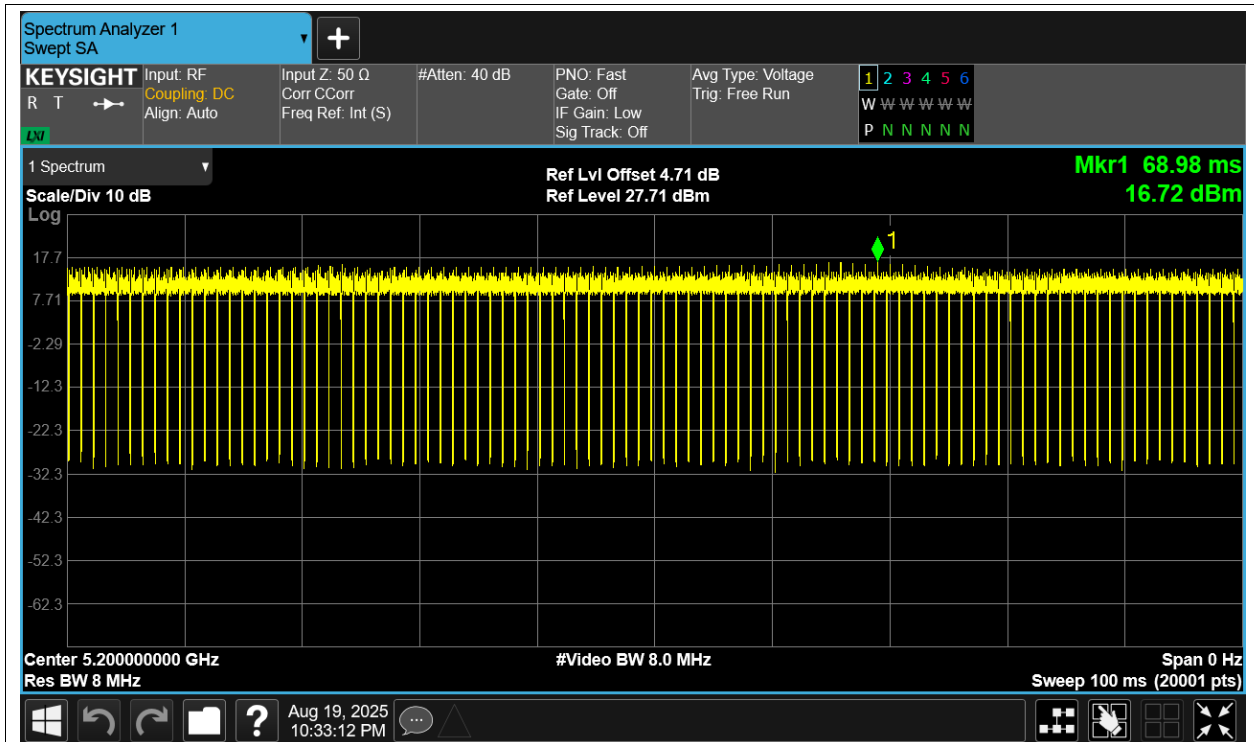
Duty Cycle NVNT a 5240MHz Ant1



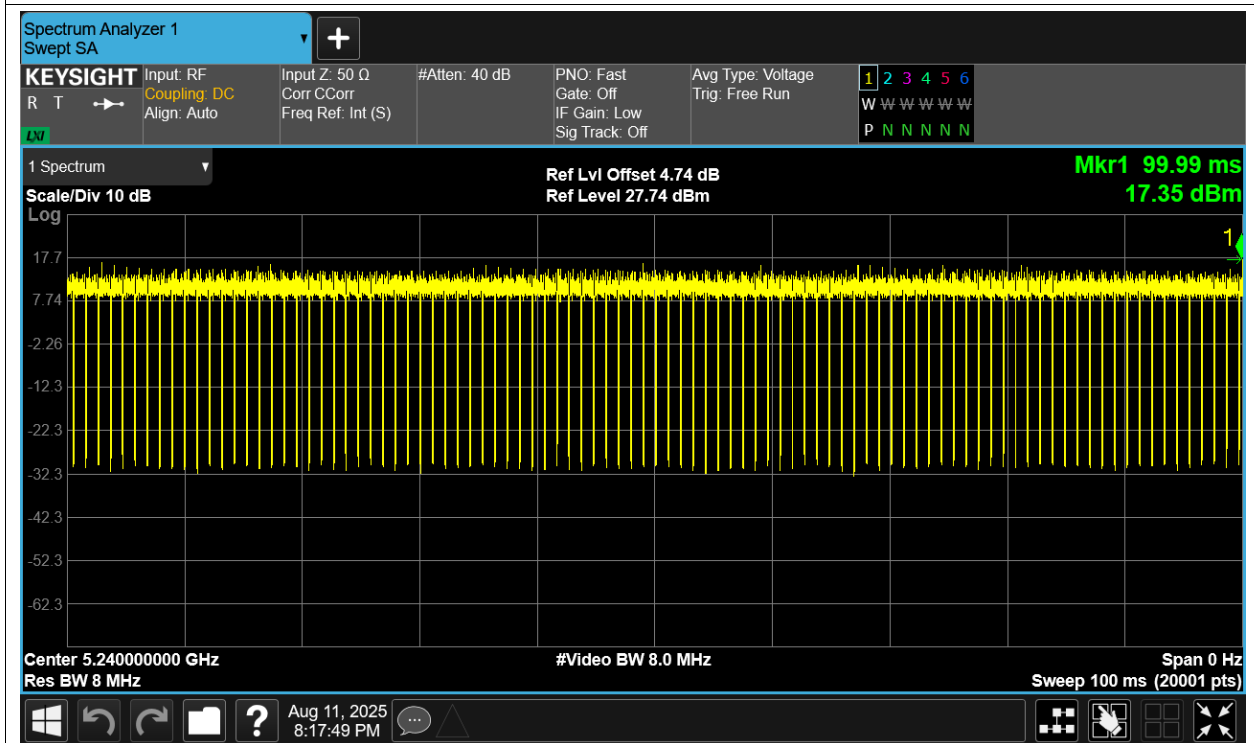
Duty Cycle NVNT ac20 5180MHz Ant1



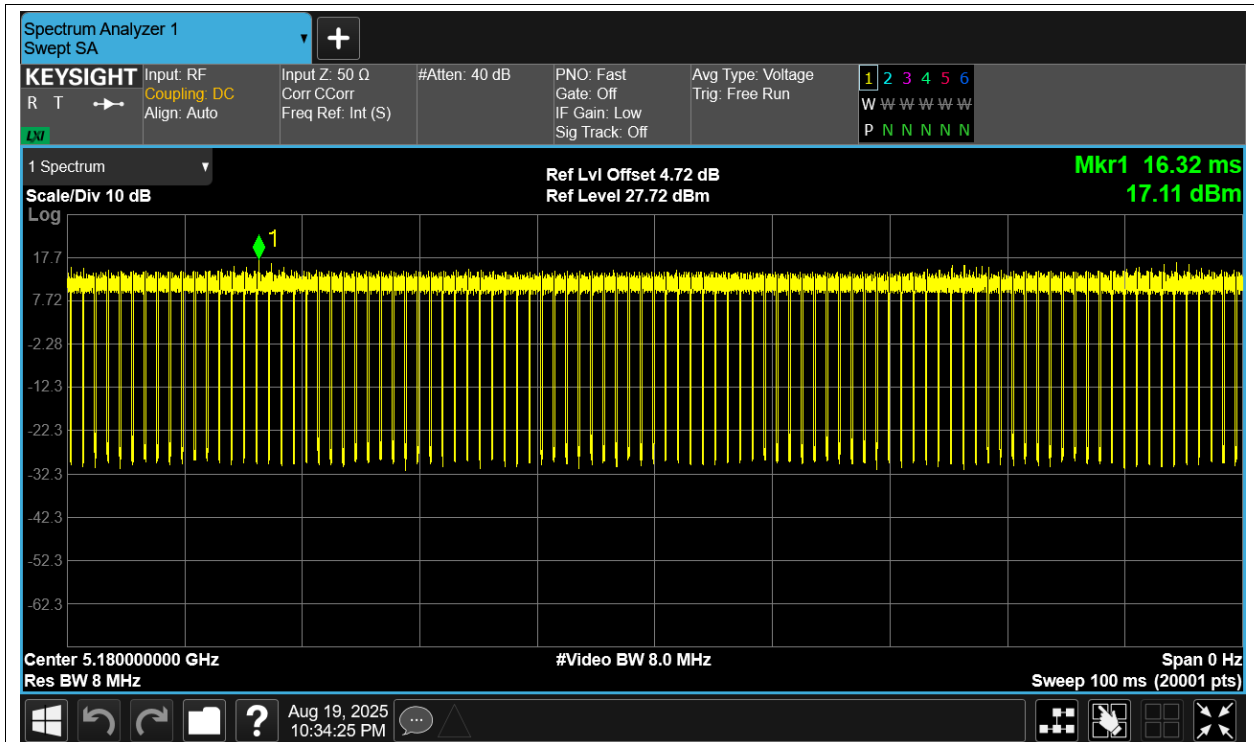
Duty Cycle NVNT ac20 5200MHz Ant1



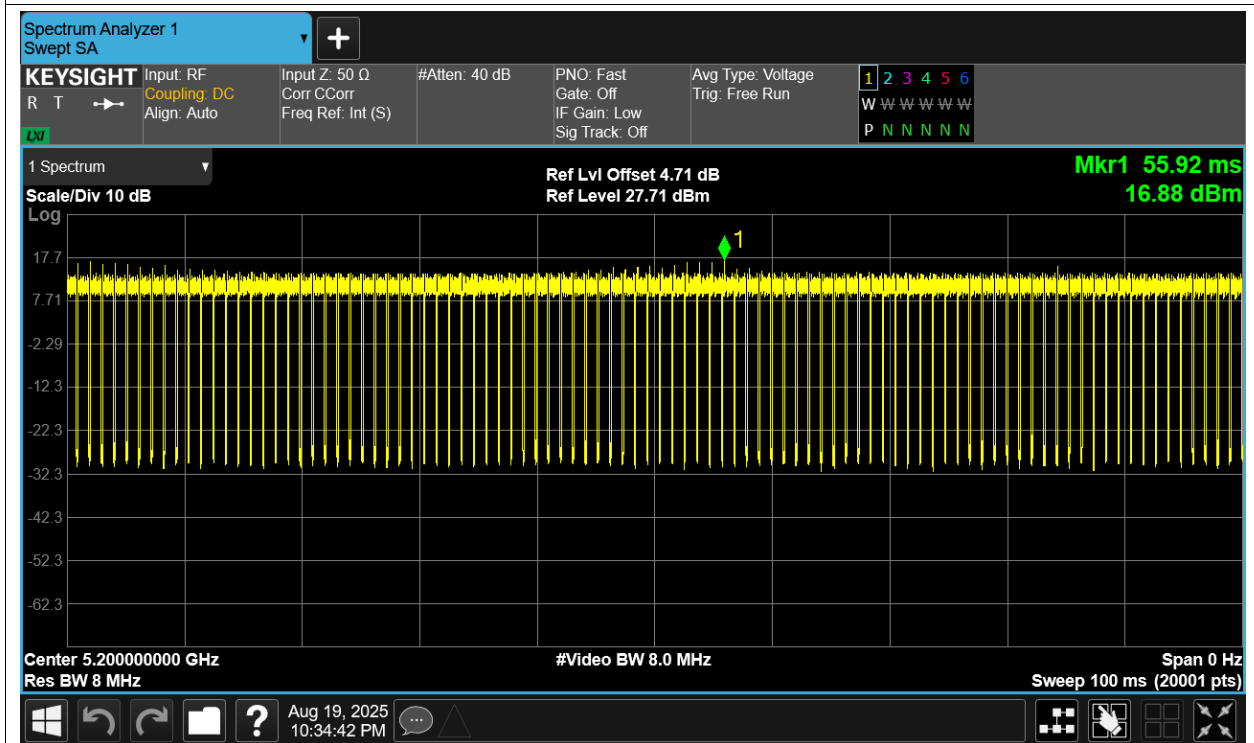
Duty Cycle NVNT ac20 5240MHz Ant1



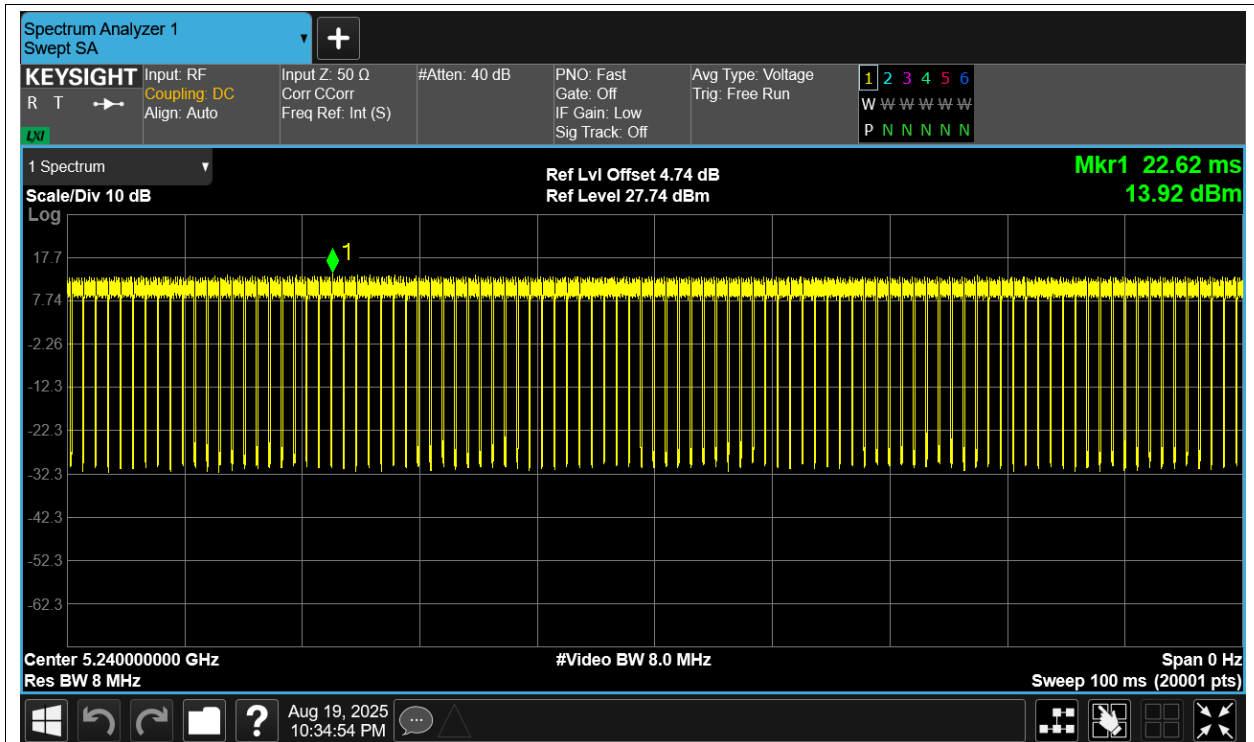
Duty Cycle NVNT ax20 5180MHz Ant1



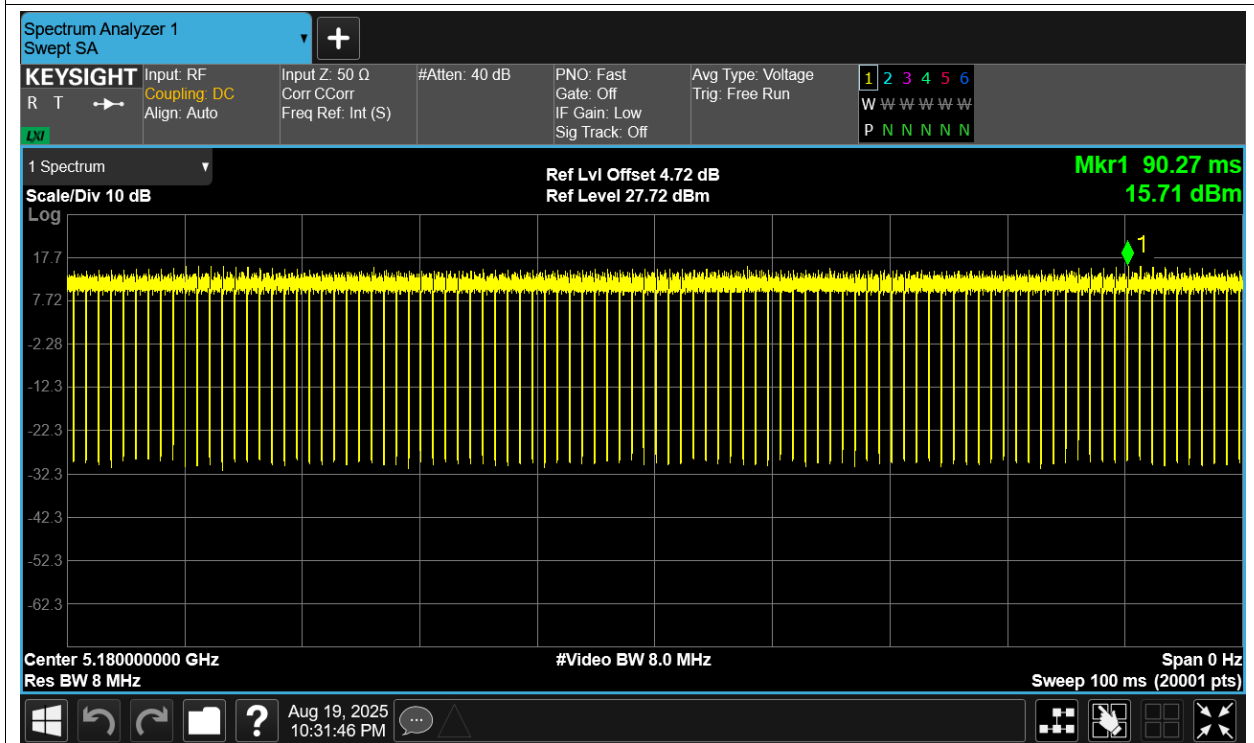
Duty Cycle NVNT ax20 5200MHz Ant1



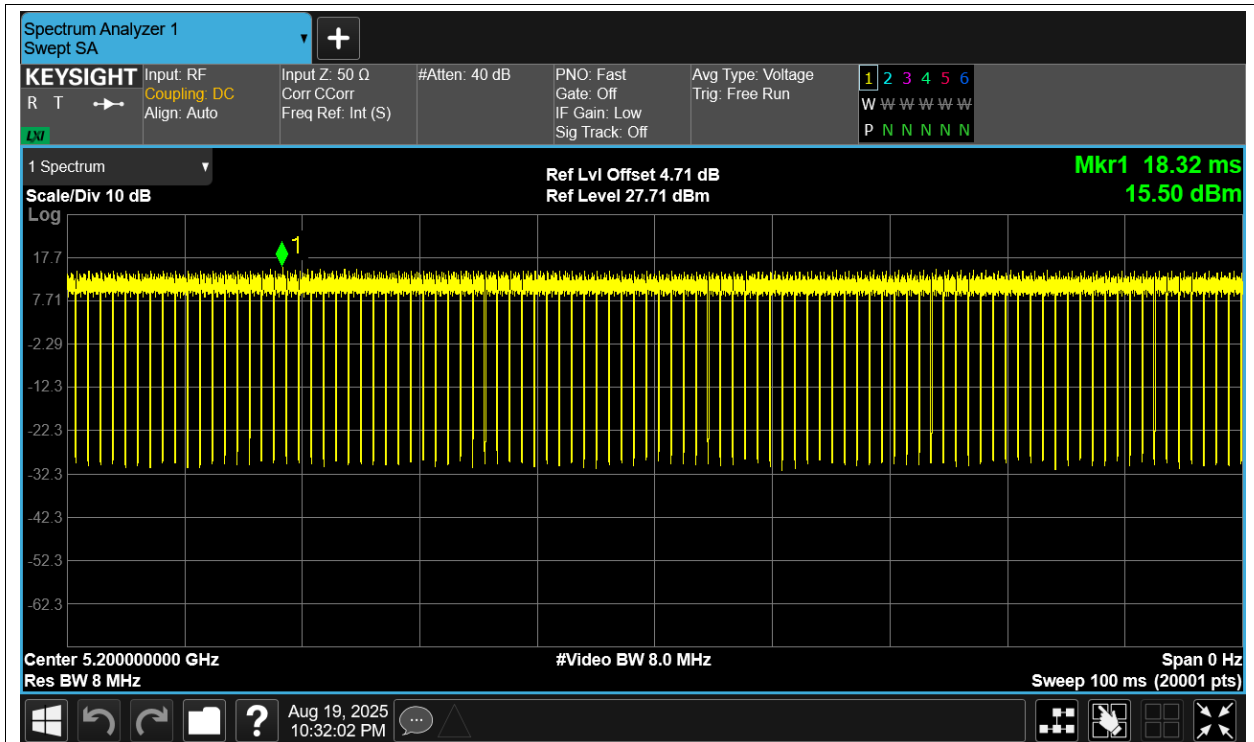
Duty Cycle NVNT ax20 5240MHz Ant1



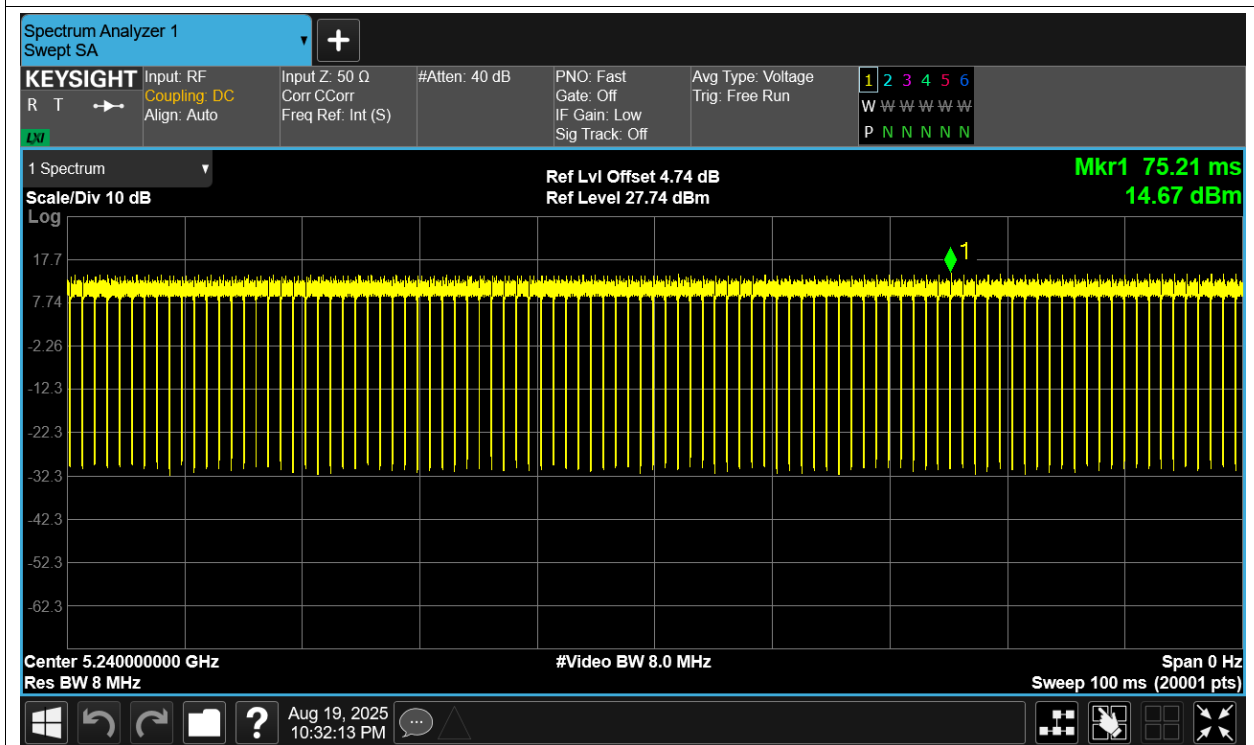
Duty Cycle NVNT n20 5180MHz Ant1



Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1



Maximum Conducted Output Power

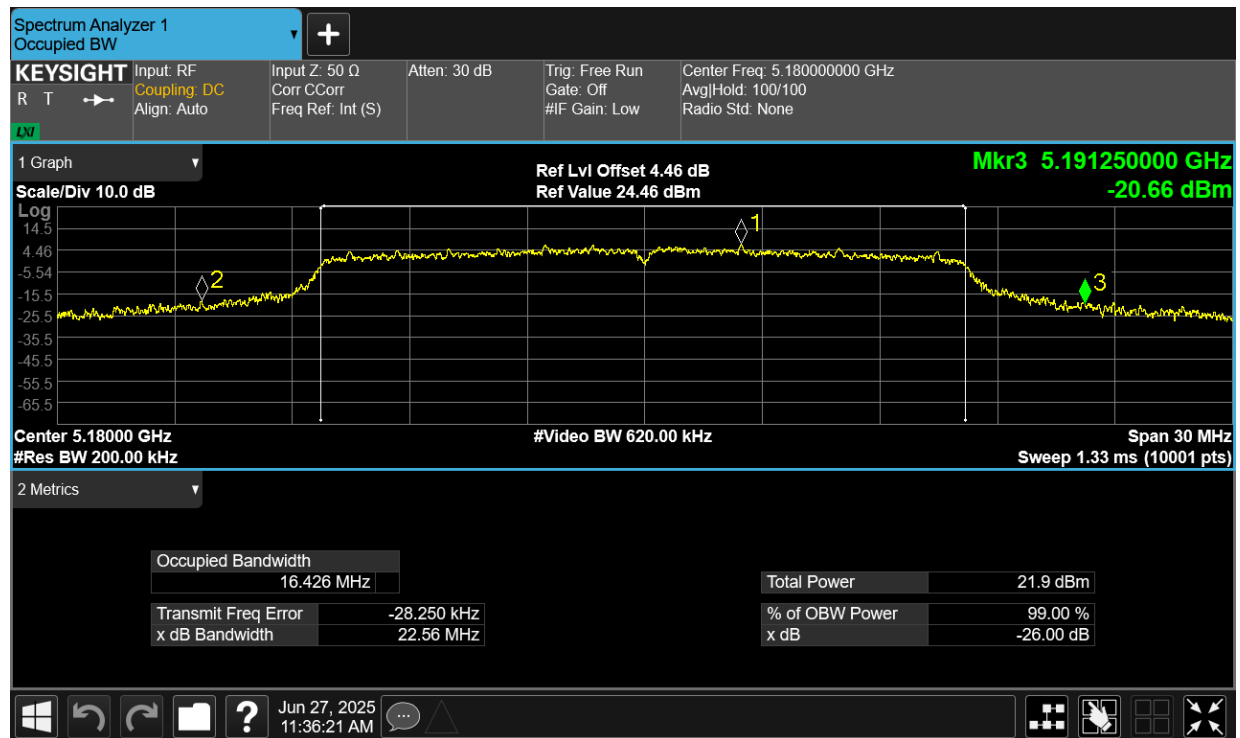
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	8.06	0.32	8.38	24	Pass
NVNT	a	5200	Ant1	7.77	0.32	8.09	24	Pass
NVNT	a	5240	Ant1	7.64	0.3	7.94	24	Pass
NVNT	ac20	5180	Ant1	7.83	0.32	8.15	24	Pass
NVNT	ac20	5200	Ant1	7.58	0.32	7.9	24	Pass
NVNT	ac20	5240	Ant1	7.46	0.34	7.8	24	Pass
NVNT	ax20	5180	Ant1	7.75	0.55	8.3	24	Pass
NVNT	ax20	5200	Ant1	7.48	0.55	8.03	24	Pass
NVNT	ax20	5240	Ant1	7.11	0.55	7.66	24	Pass
NVNT	n20	5180	Ant1	7.88	0.34	8.22	24	Pass
NVNT	n20	5200	Ant1	7.59	0.37	7.96	24	Pass
NVNT	n20	5240	Ant1	7.5	0.34	7.84	24	Pass

-26dB Bandwidth

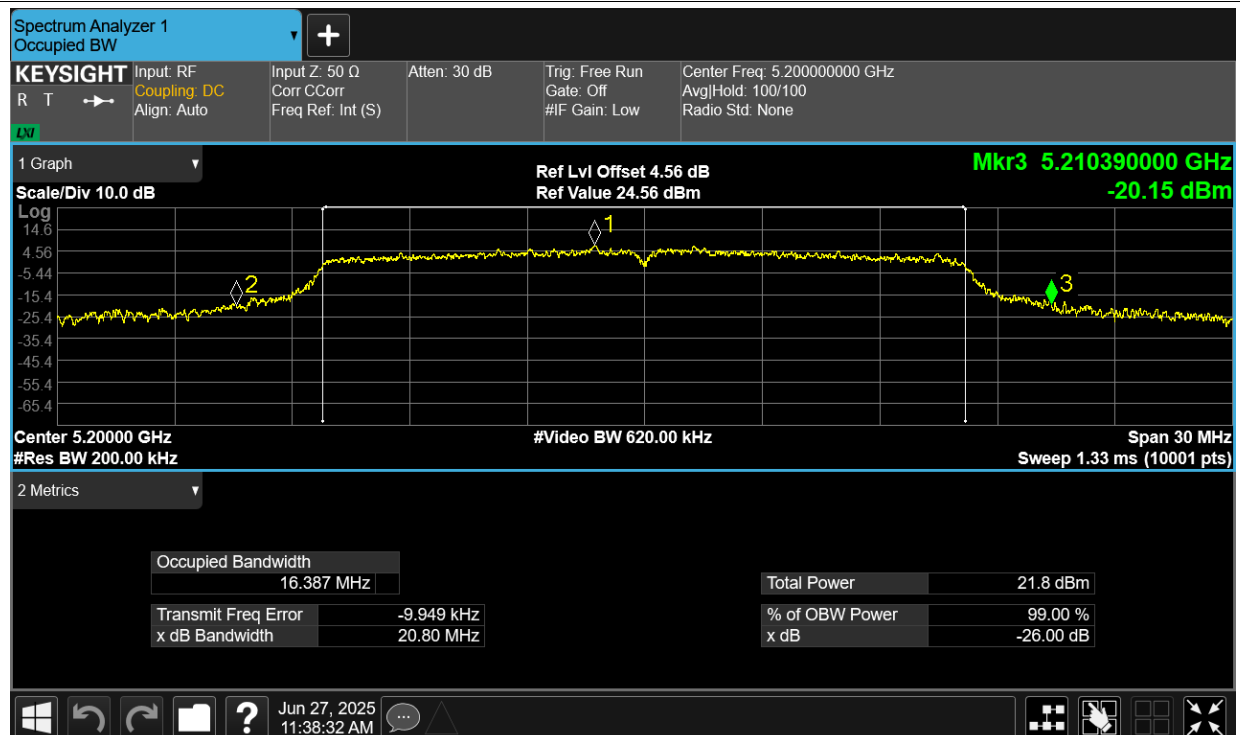
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	22.556
NVNT	a	5200	Ant1	20.8
NVNT	a	5240	Ant1	20.476
NVNT	ac20	5180	Ant1	22.922
NVNT	ac20	5200	Ant1	20.876
NVNT	ac20	5240	Ant1	20.468
NVNT	ax20	5180	Ant1	21.233
NVNT	ax20	5200	Ant1	21.592
NVNT	ax20	5240	Ant1	21.371
NVNT	n20	5180	Ant1	22.006
NVNT	n20	5200	Ant1	21.157
NVNT	n20	5240	Ant1	20.346

Test Graphs

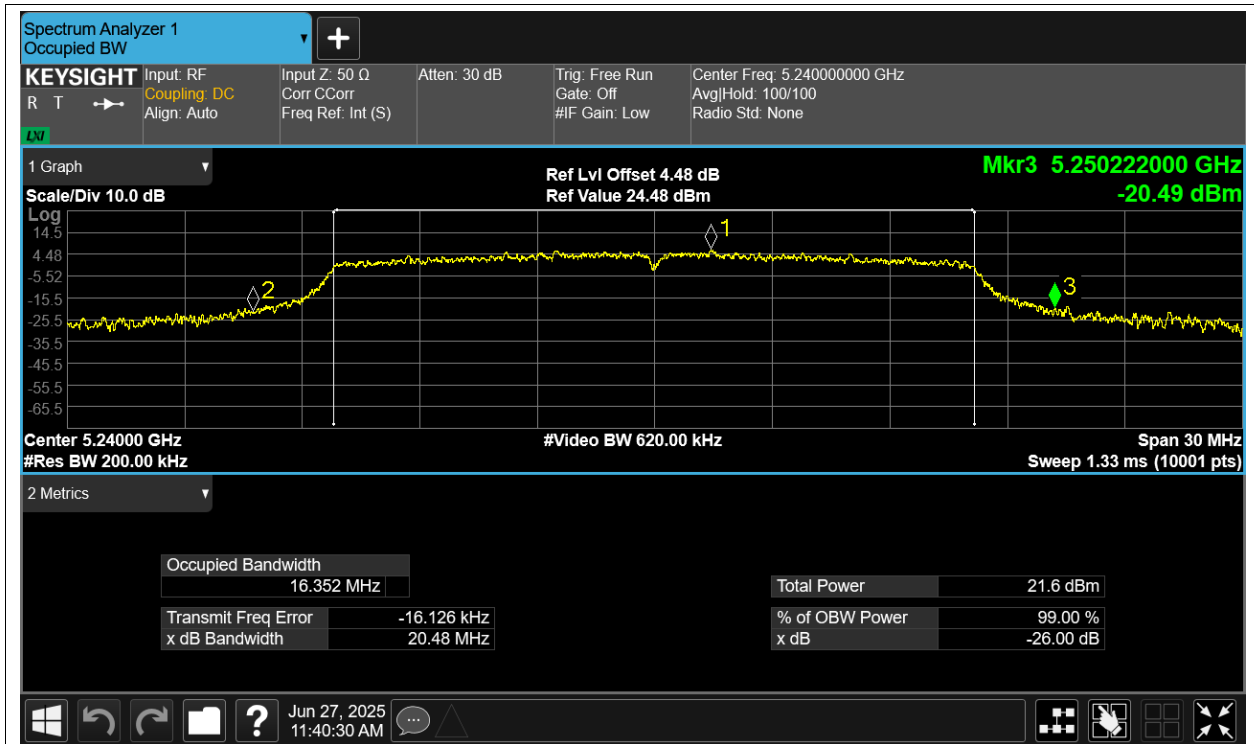
-26dB Bandwidth NVNT a 5180MHz Ant1



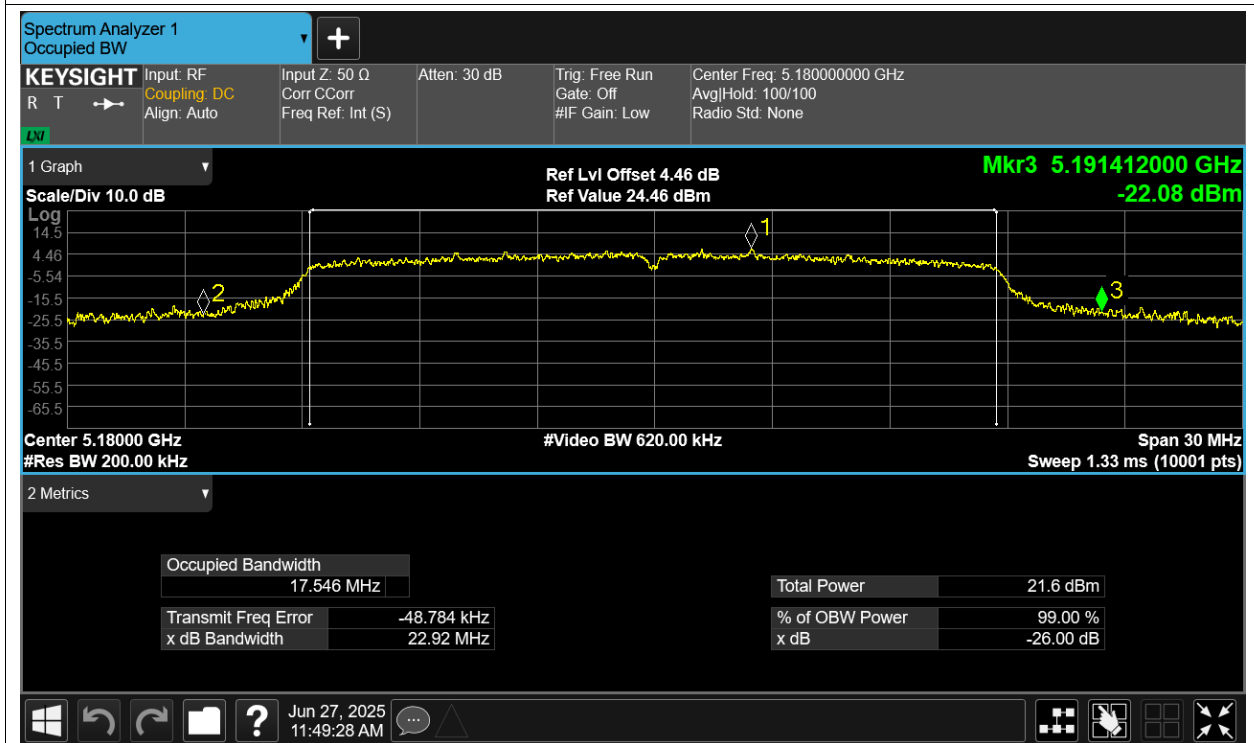
-26dB Bandwidth NVNT a 5200MHz Ant1



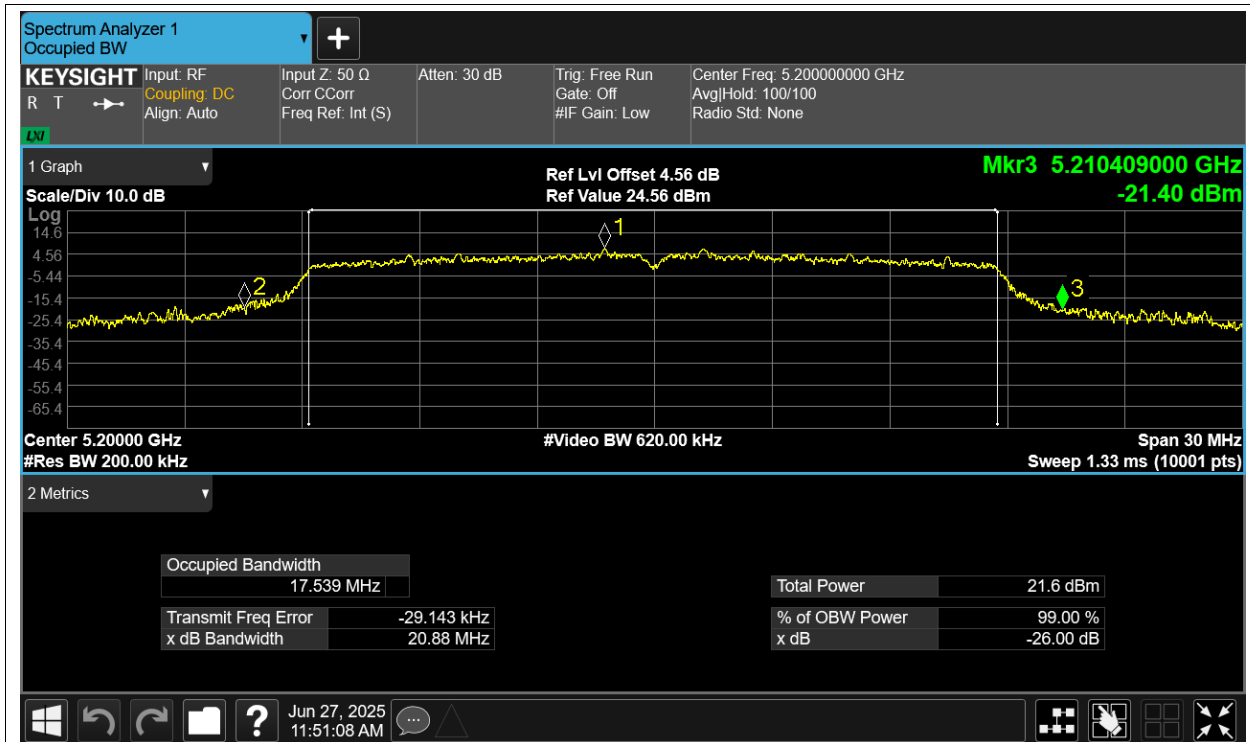
-26dB Bandwidth NVNT a 5240MHz Ant1



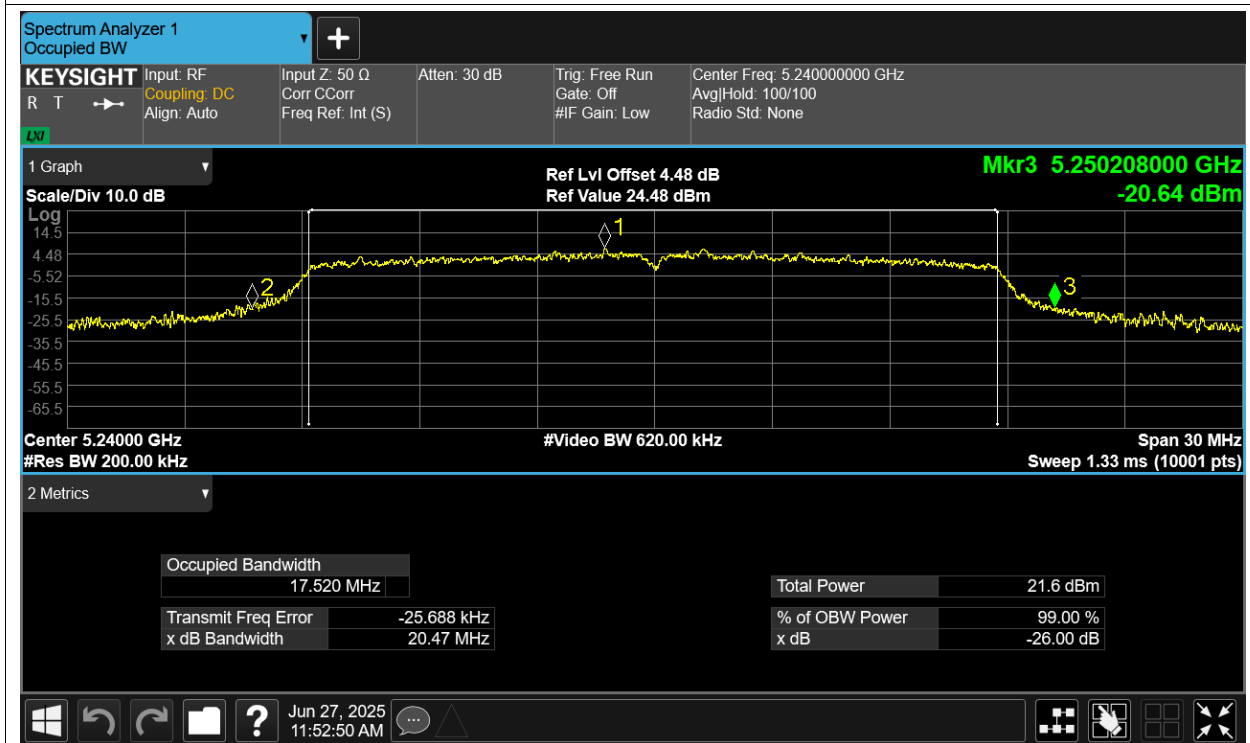
-26dB Bandwidth NVNT ac20 5180MHz Ant1



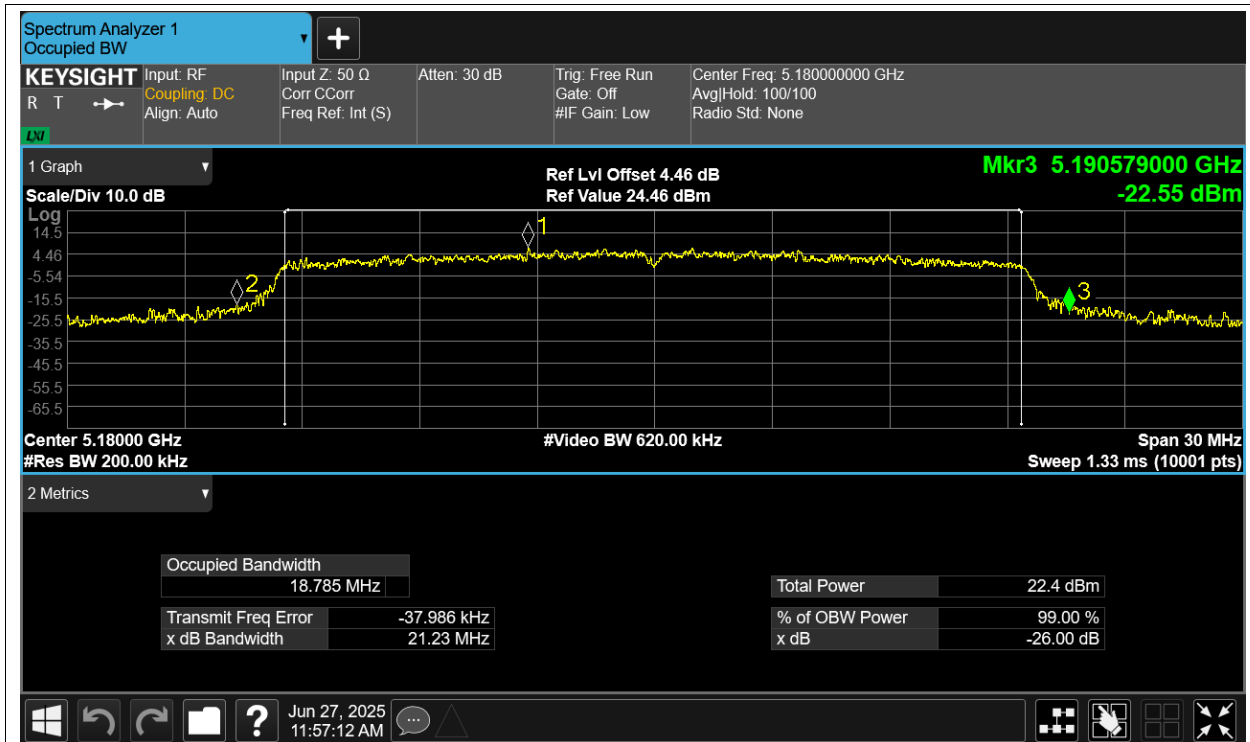
-26dB Bandwidth NVNT ac20 5200MHz Ant1



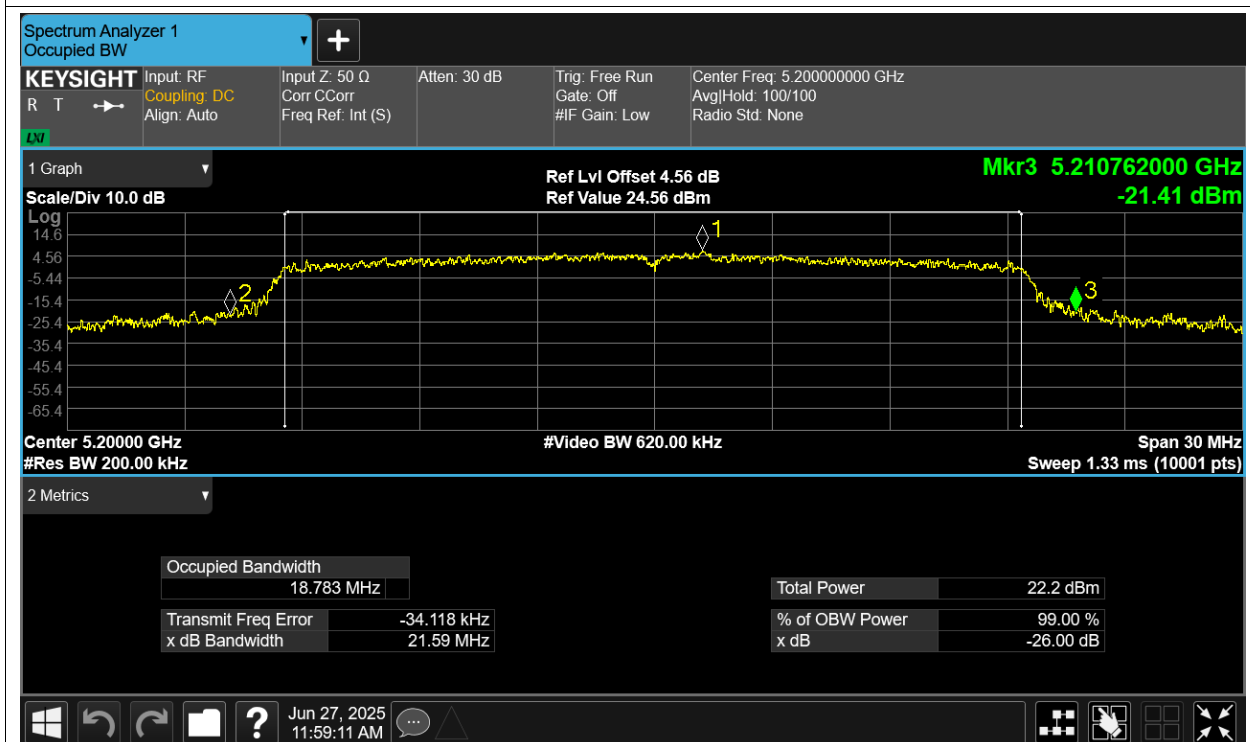
-26dB Bandwidth NVNT ac20 5240MHz Ant1



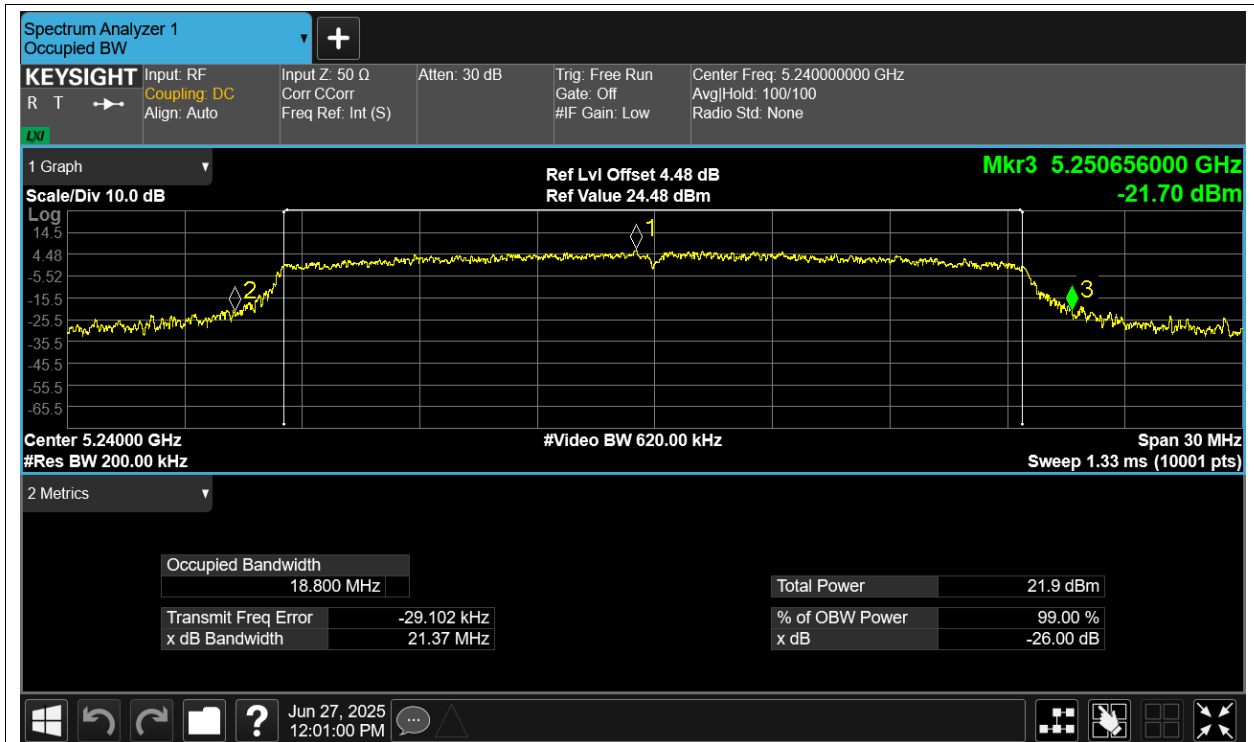
-26dB Bandwidth NVNT ax20 5180MHz Ant1



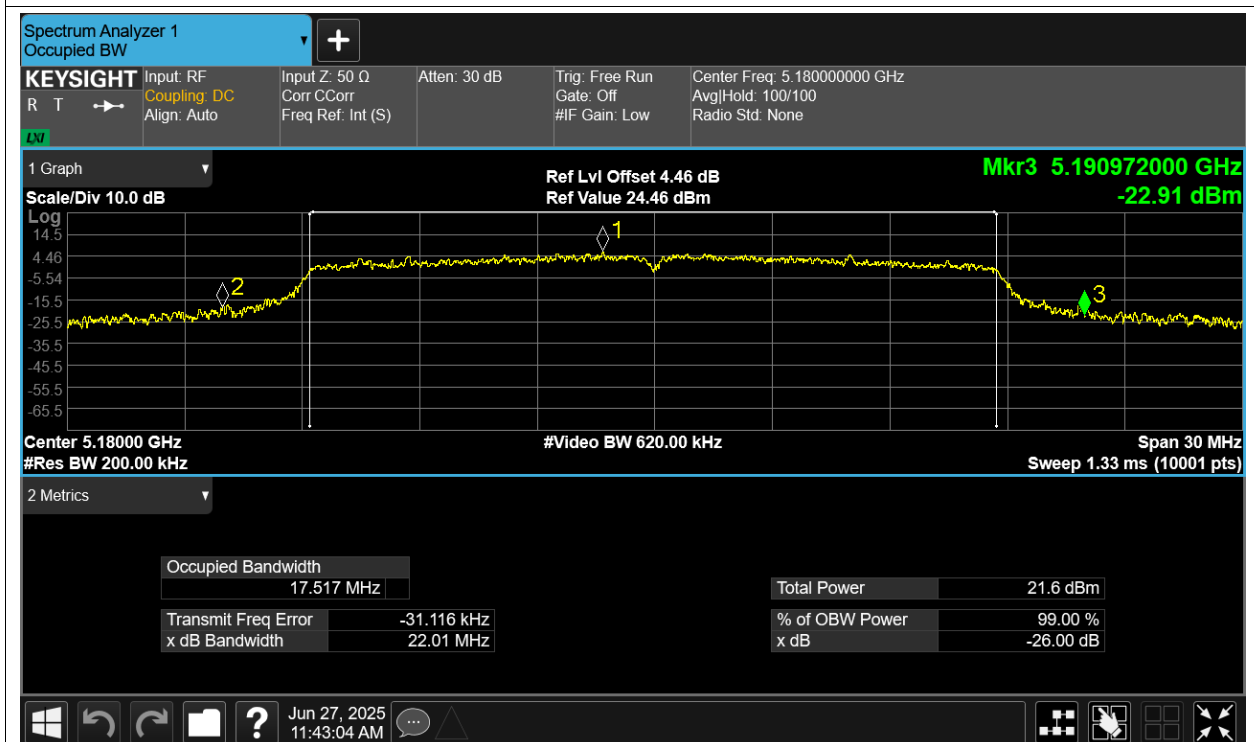
-26dB Bandwidth NVNT ax20 5200MHz Ant1



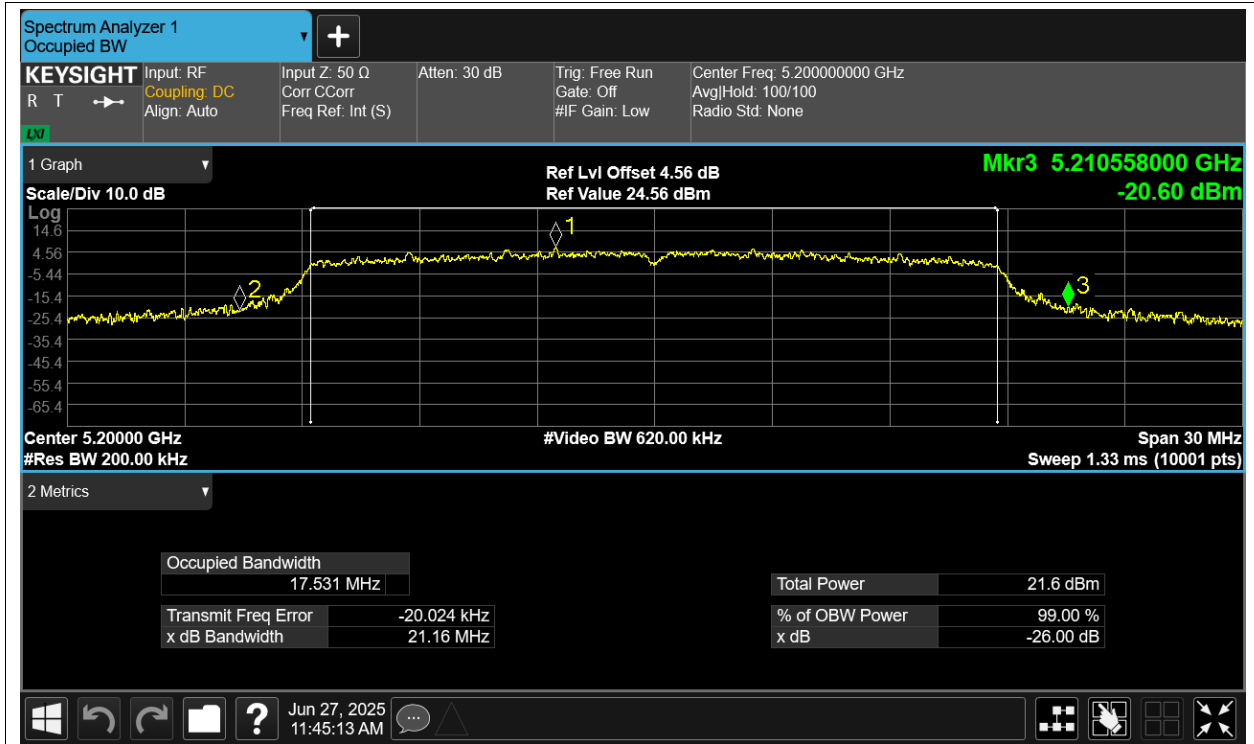
-26dB Bandwidth NVNT ax20 5240MHz Ant1



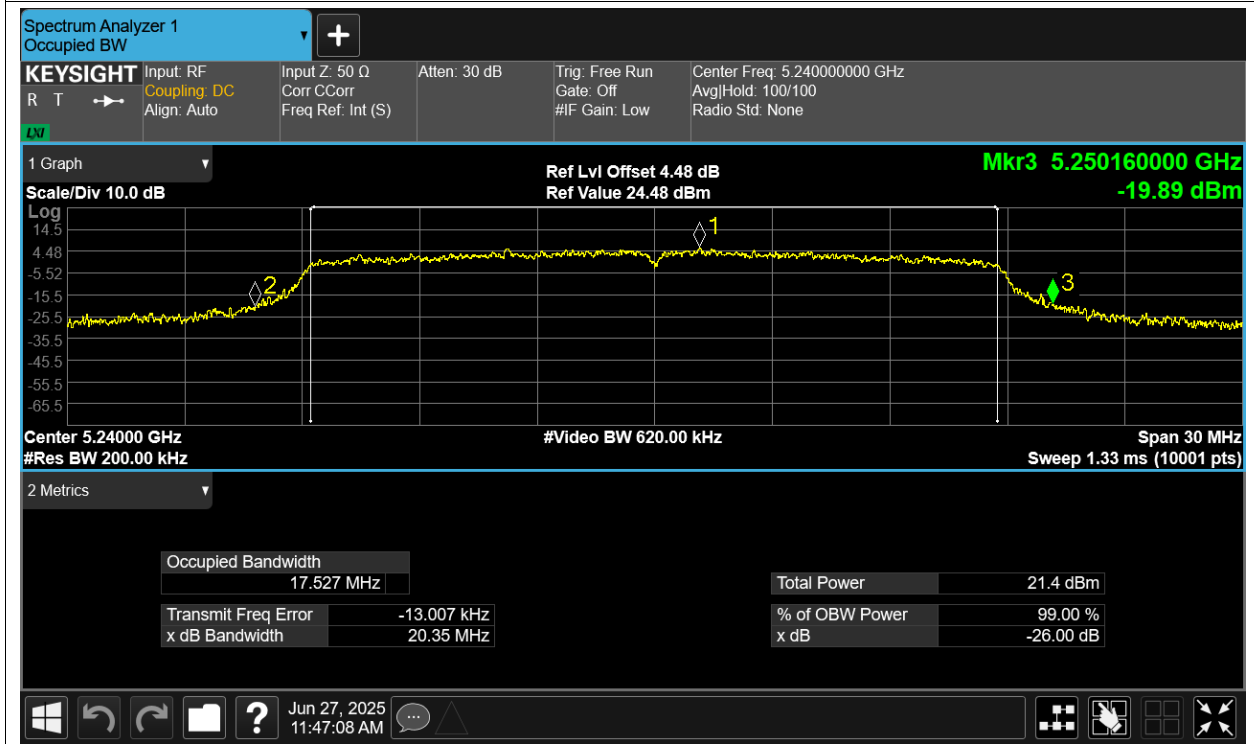
-26dB Bandwidth NVNT n20 5180MHz Ant1



-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1

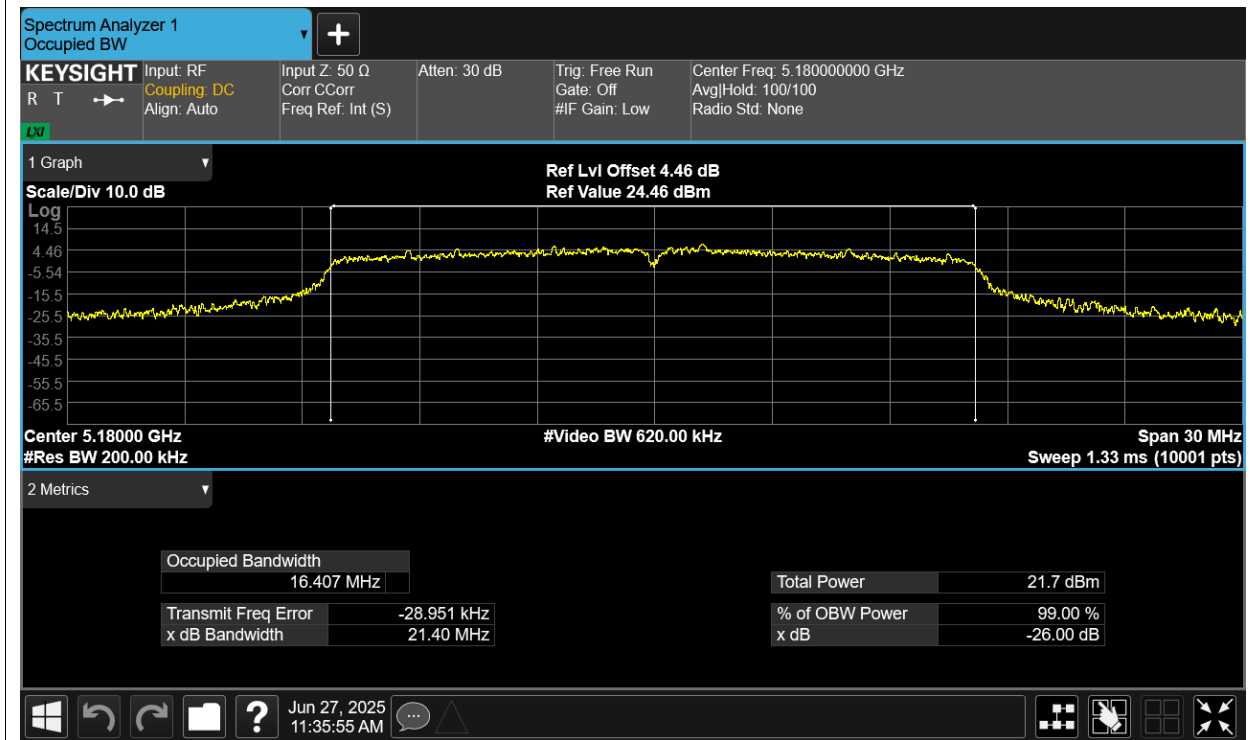


Occupied Channel Bandwidth

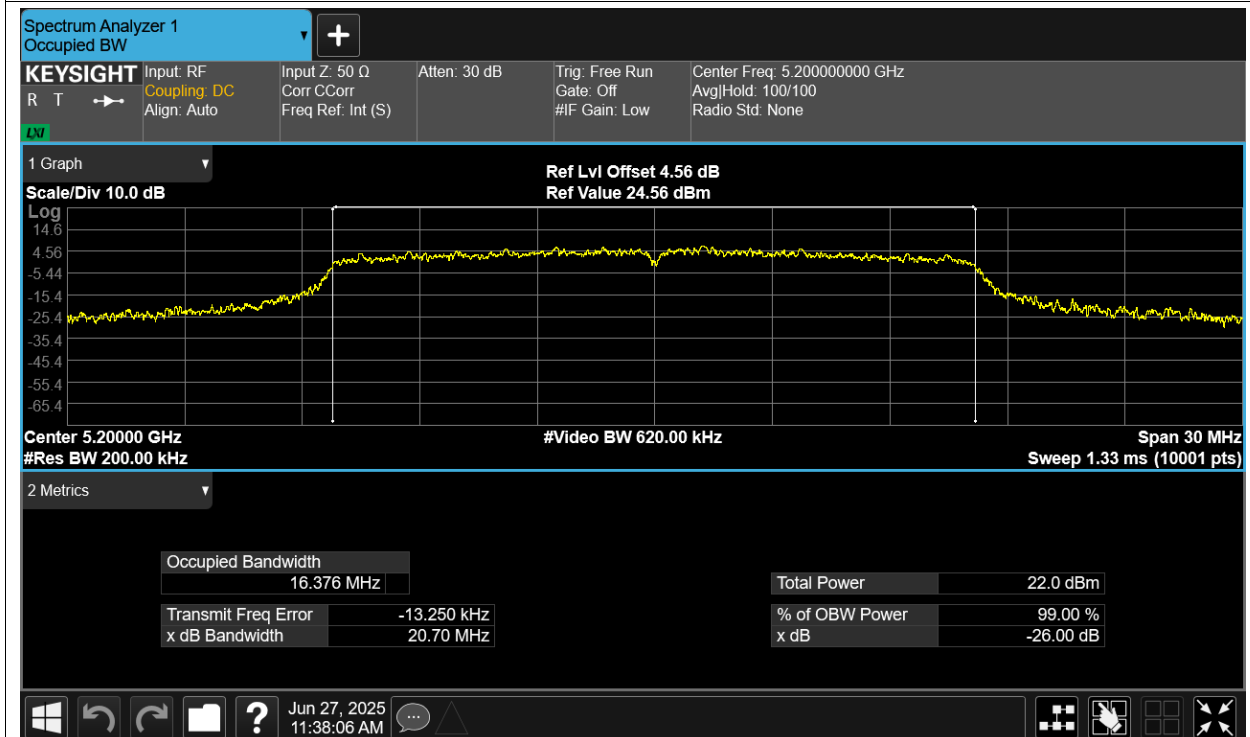
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.407
NVNT	a	5200	Ant1	16.376
NVNT	a	5240	Ant1	16.356
NVNT	ac20	5180	Ant1	17.536
NVNT	ac20	5200	Ant1	17.542
NVNT	ac20	5240	Ant1	17.518
NVNT	ax20	5180	Ant1	18.799
NVNT	ax20	5200	Ant1	18.787
NVNT	ax20	5240	Ant1	18.771
NVNT	n20	5180	Ant1	17.531
NVNT	n20	5200	Ant1	17.545
NVNT	n20	5240	Ant1	17.519

Test Graphs

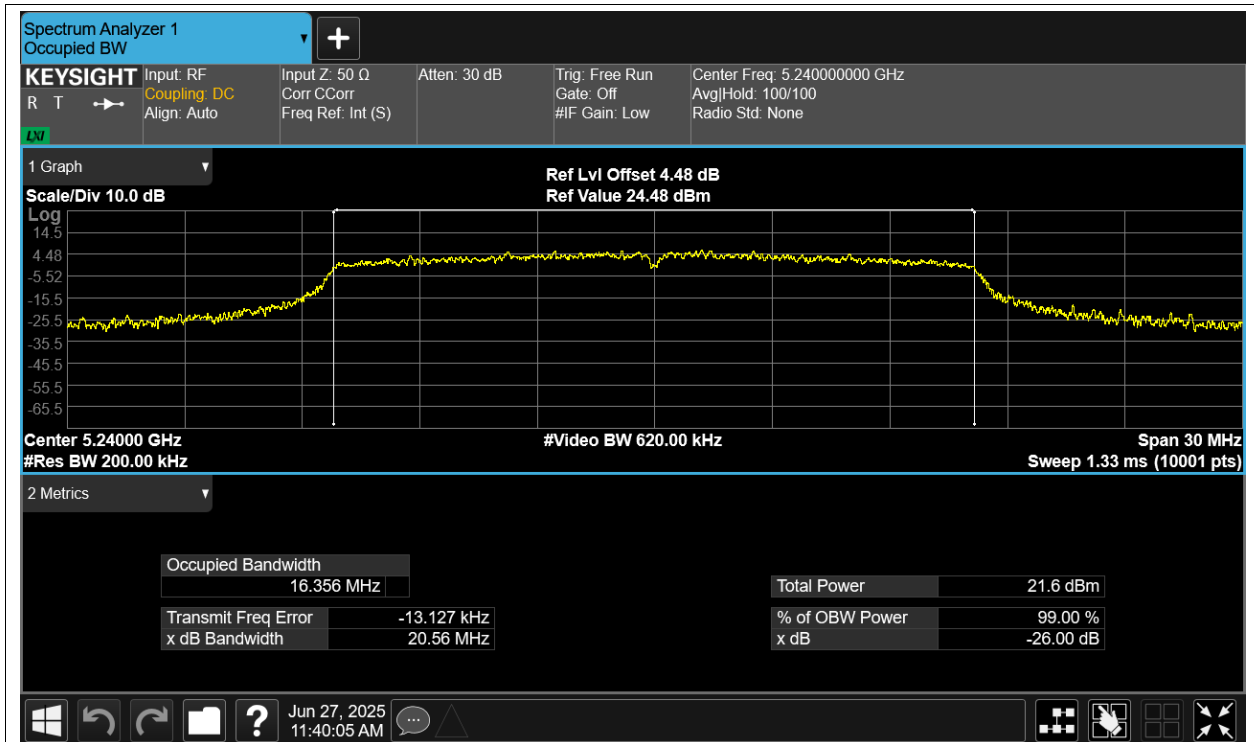
OBW NVNT a 5180MHz Ant1



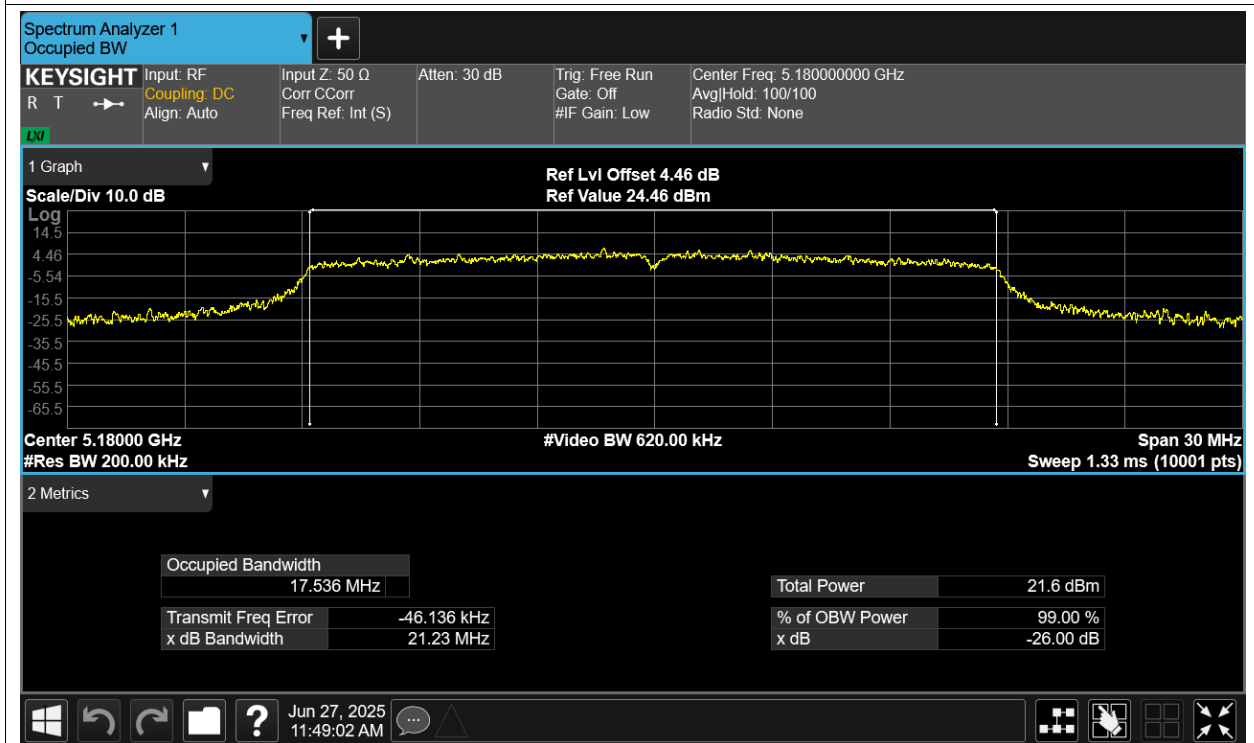
OBW NVNT a 5200MHz Ant1



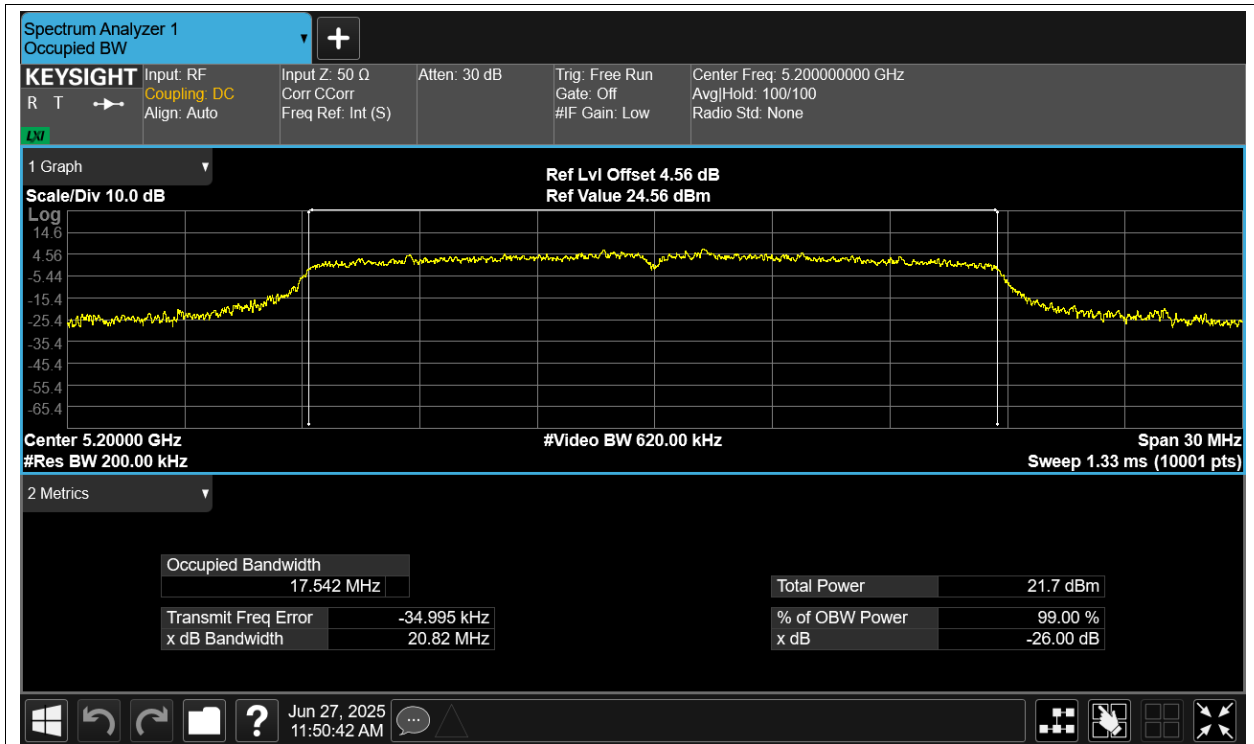
OBW NVNT a 5240MHz Ant1



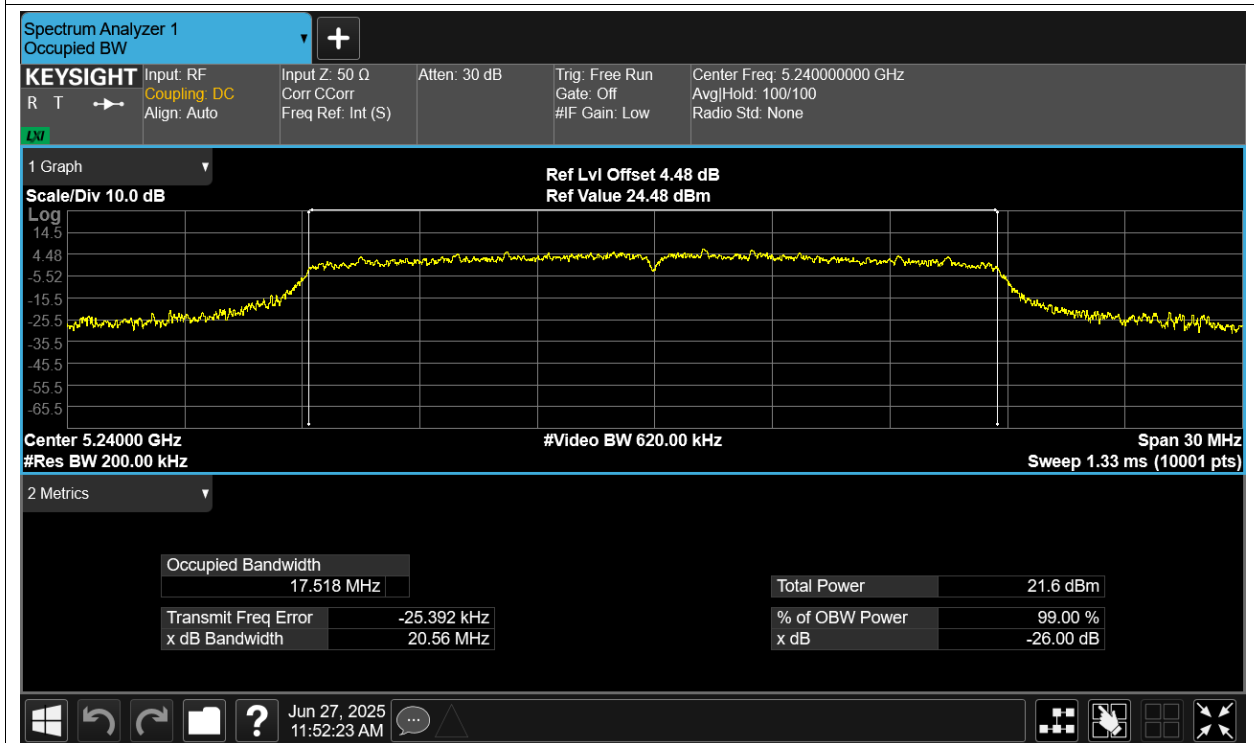
OBW NVNT ac20 5180MHz Ant1



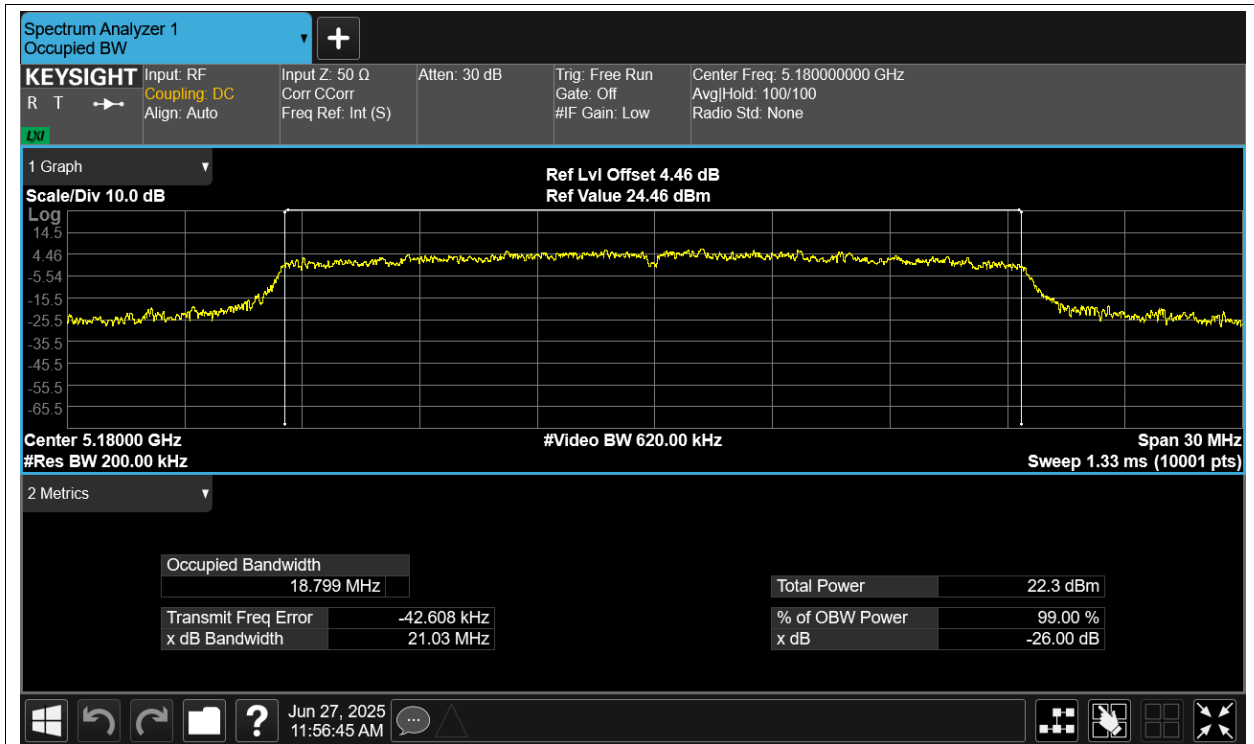
OBW NVNT ac20 5200MHz Ant1



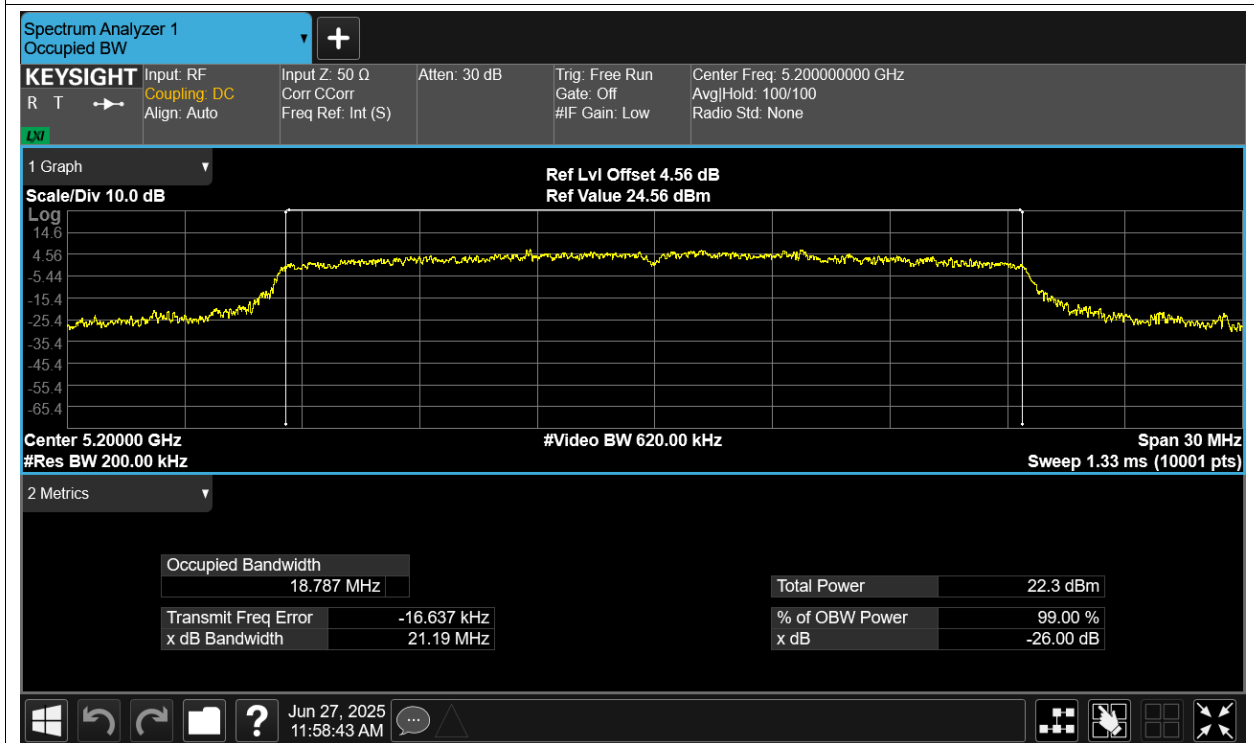
OBW NVNT ac20 5240MHz Ant1



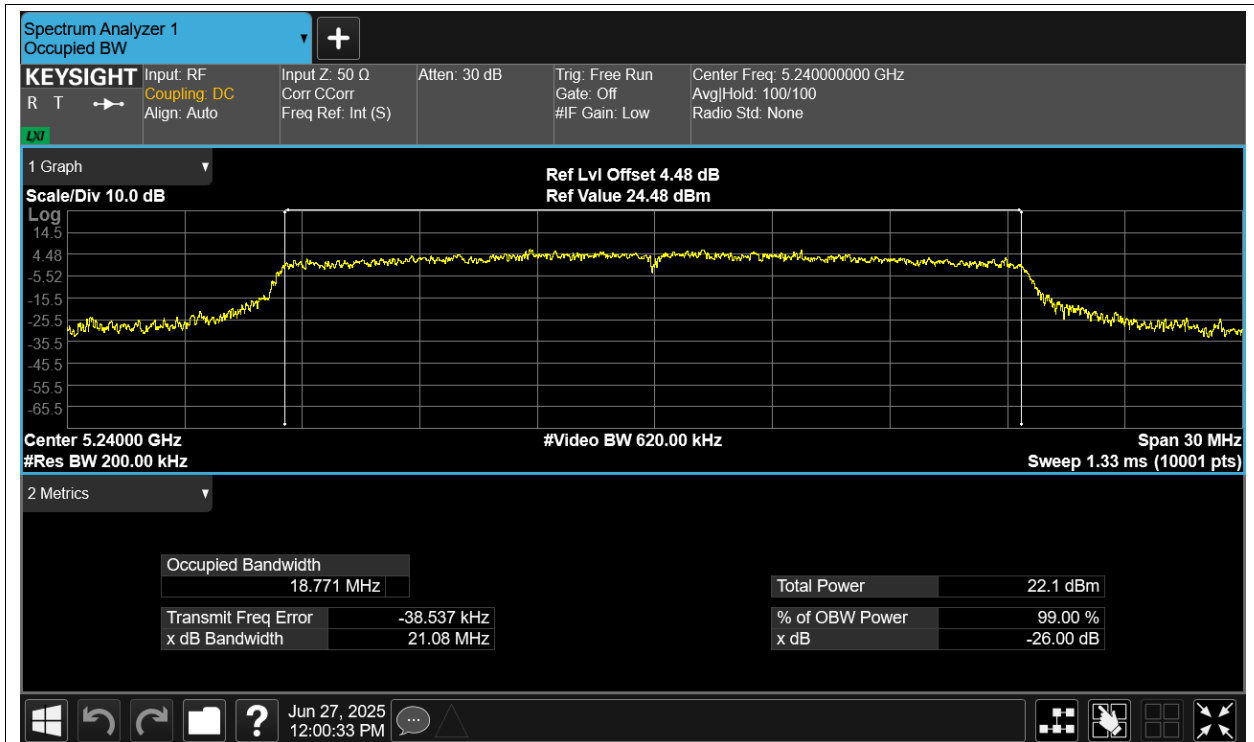
OBW NVNT ax20 5180MHz Ant1



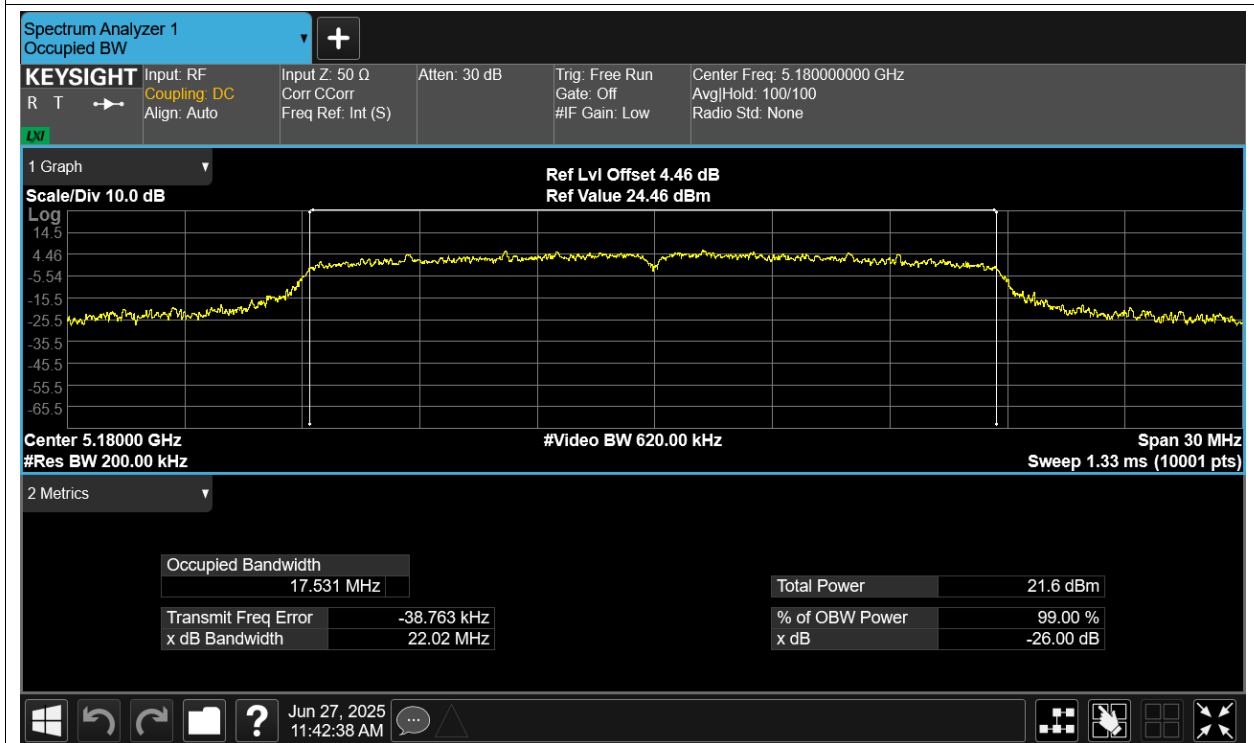
OBW NVNT ax20 5200MHz Ant1



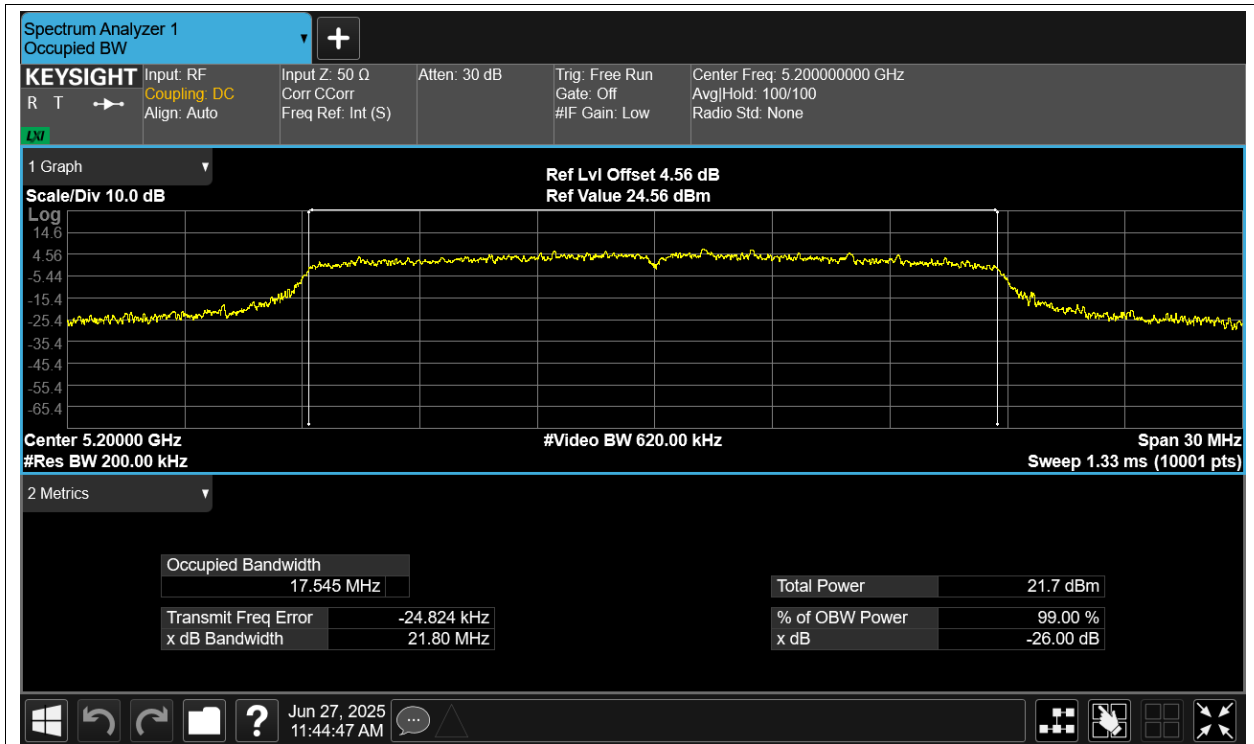
OBW NVNT ax20 5240MHz Ant1



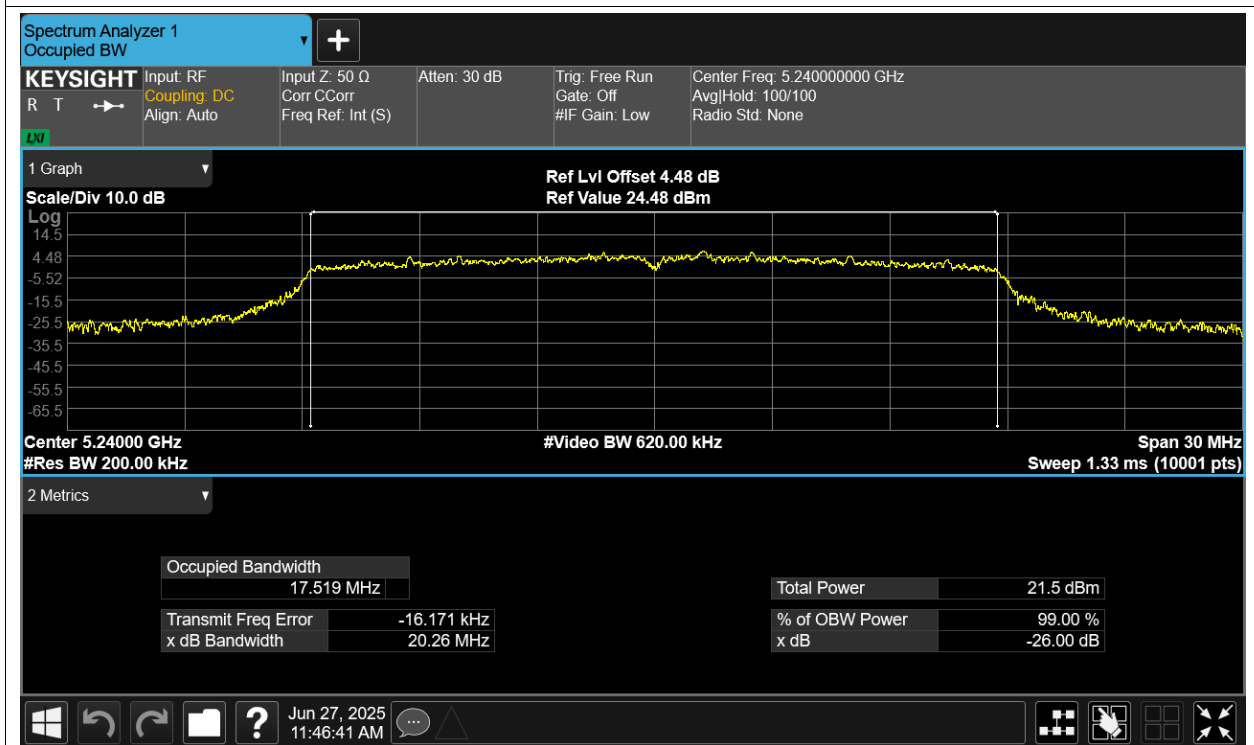
OBW NVNT n20 5180MHz Ant1



OBW NVNT n20 5200MHz Ant1



OBW NVNT n20 5240MHz Ant1

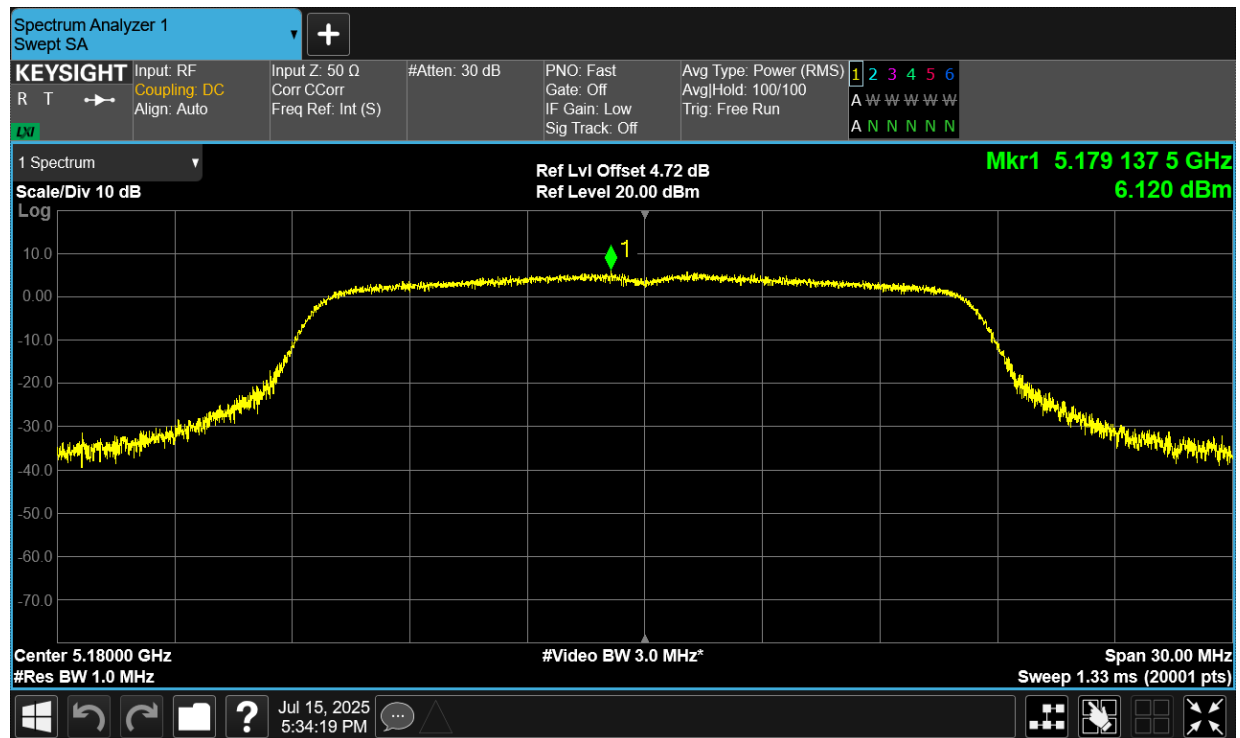


Maximum Power Spectral Density Level

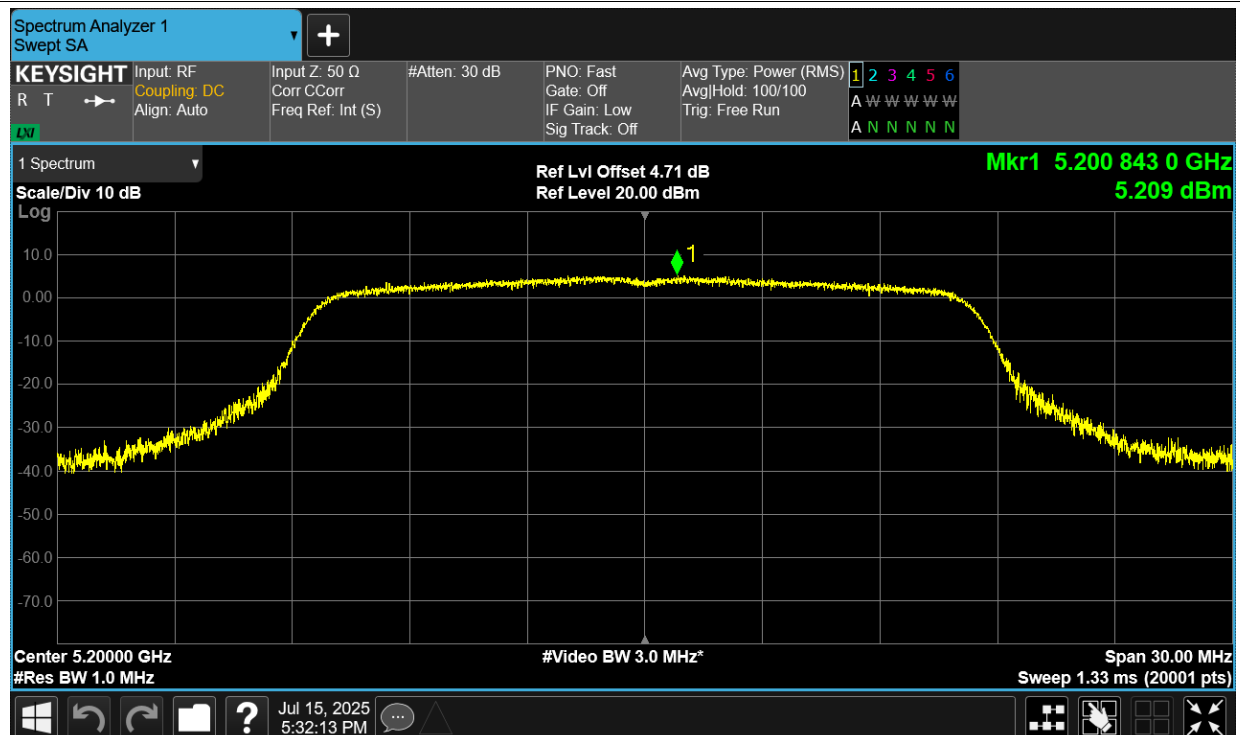
Condition	Mode	Frequency (MHz)	Antenna	Duty Factor (dB)	Max PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	0.32	6.12	6.44	11	Pass
NVNT	a	5200	Ant1	0.32	5.209	5.529	11	Pass
NVNT	a	5240	Ant1	0.3	5.569	5.869	11	Pass
NVNT	ac20	5180	Ant1	0.32	5.215	5.535	11	Pass
NVNT	ac20	5200	Ant1	0.32	4.862	5.182	11	Pass
NVNT	ac20	5240	Ant1	0.34	5.185	5.525	11	Pass
NVNT	ax20	5180	Ant1	0.55	4.601	5.151	11	Pass
NVNT	ax20	5200	Ant1	0.55	5.024	5.574	11	Pass
NVNT	ax20	5240	Ant1	0.55	5.076	5.626	11	Pass
NVNT	n20	5180	Ant1	0.34	5.021	5.361	11	Pass
NVNT	n20	5200	Ant1	0.37	5.247	5.617	11	Pass
NVNT	n20	5240	Ant1	0.34	4.96	5.3	11	Pass

Test Graphs

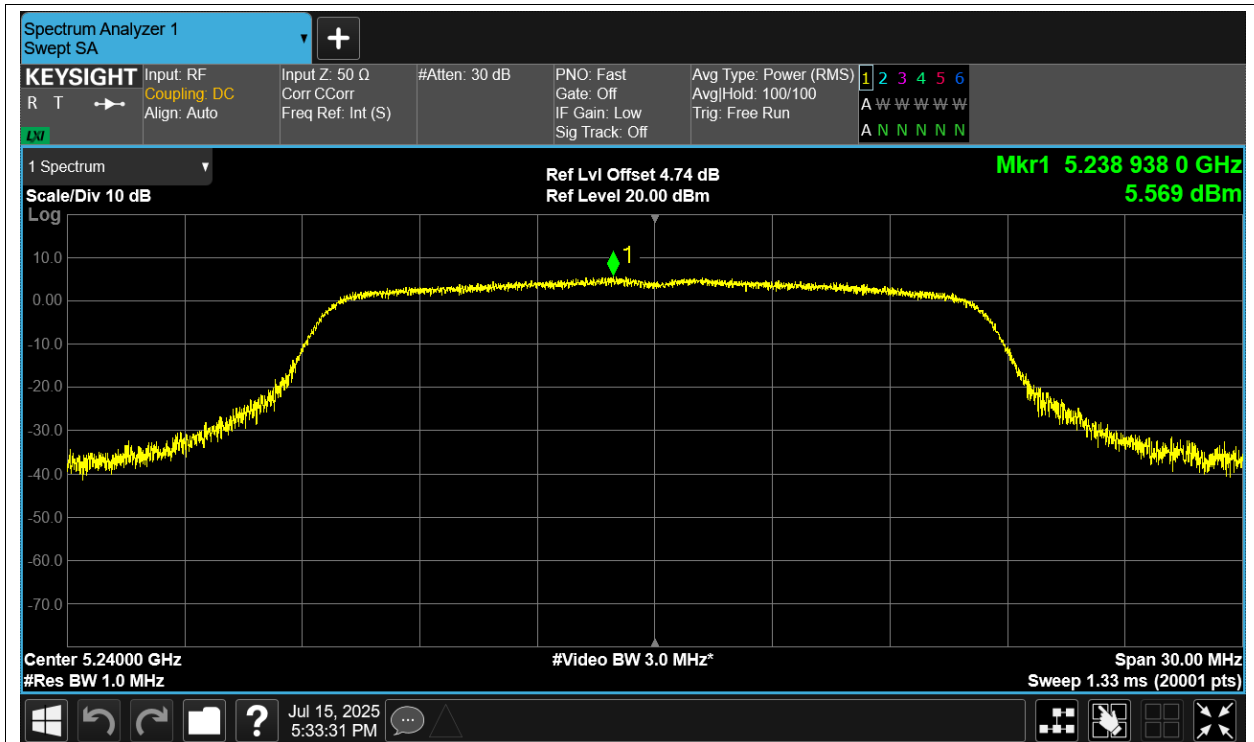
PSD NVNT a 5180MHz Ant1



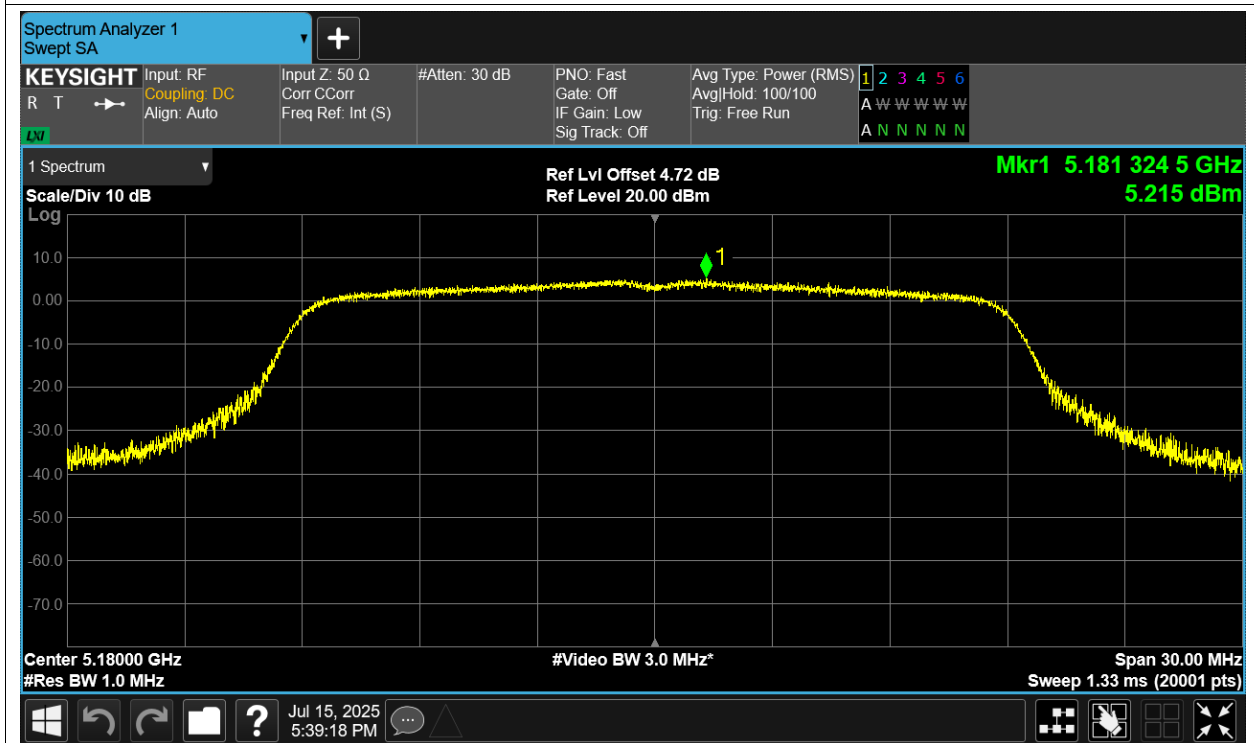
PSD NVNT a 5200MHz Ant1



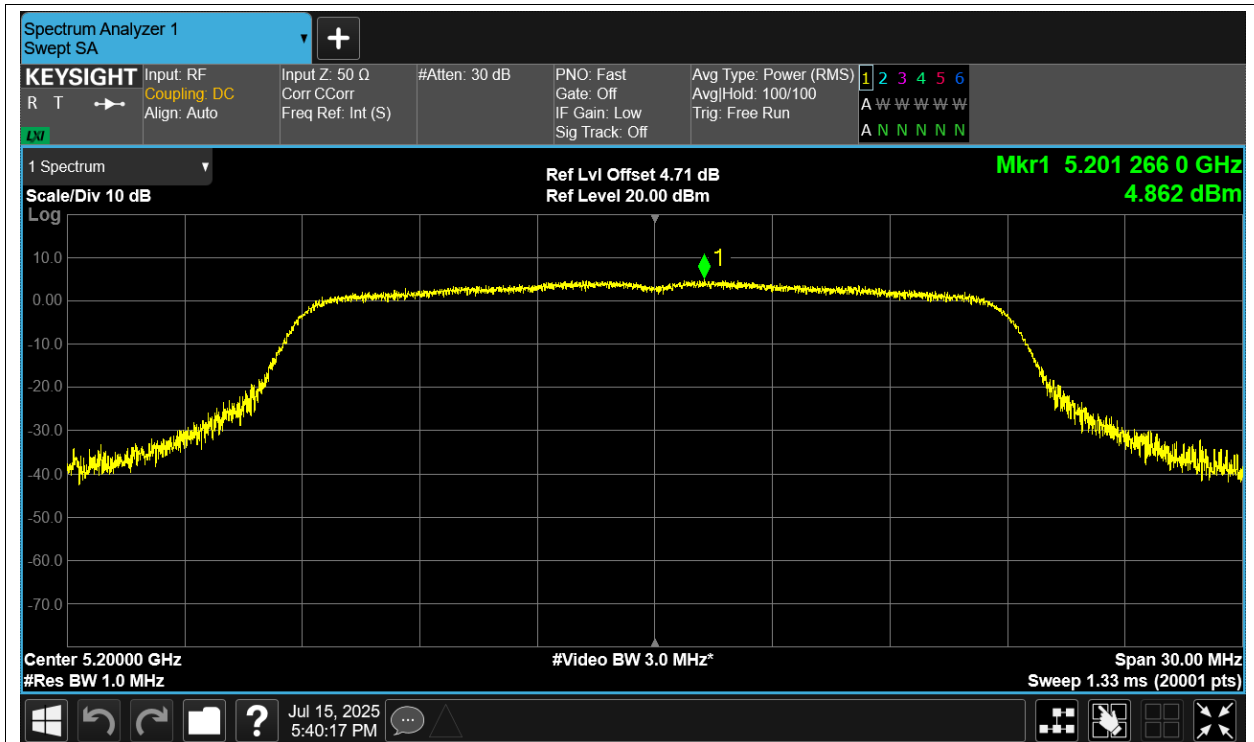
PSD NVNT a 5240MHz Ant1



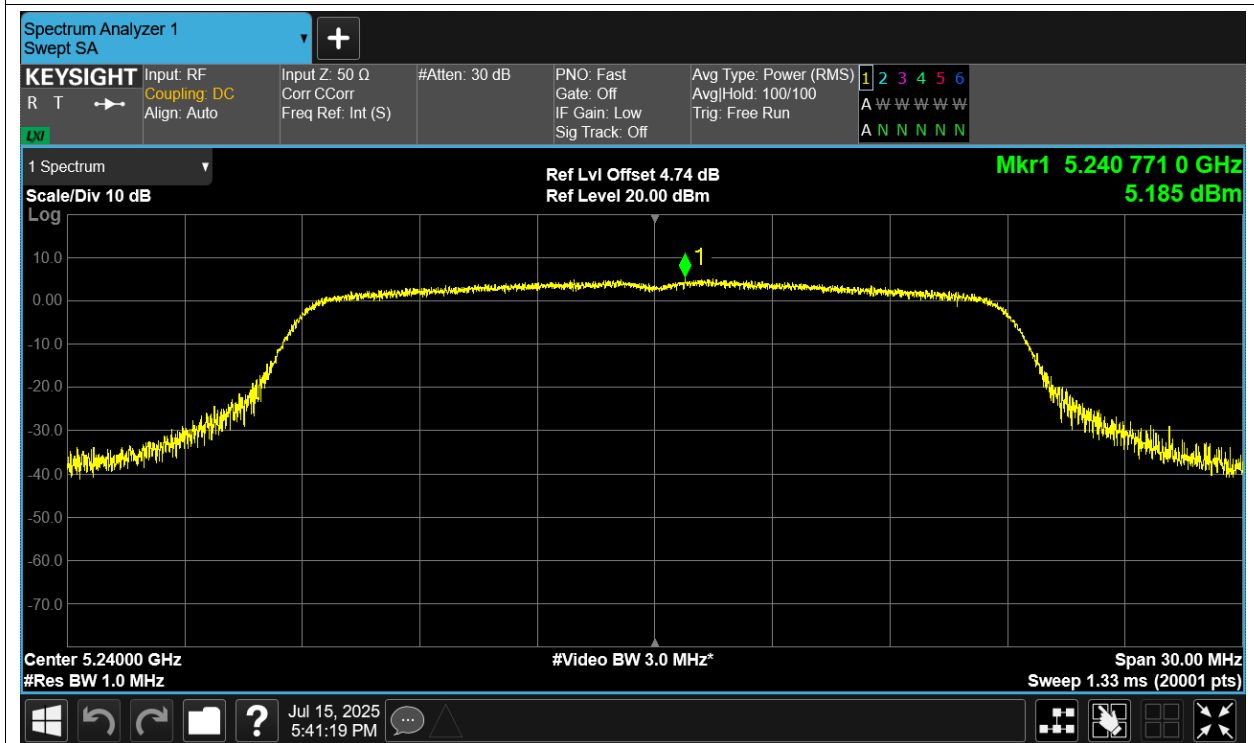
PSD NVNT ac20 5180MHz Ant1



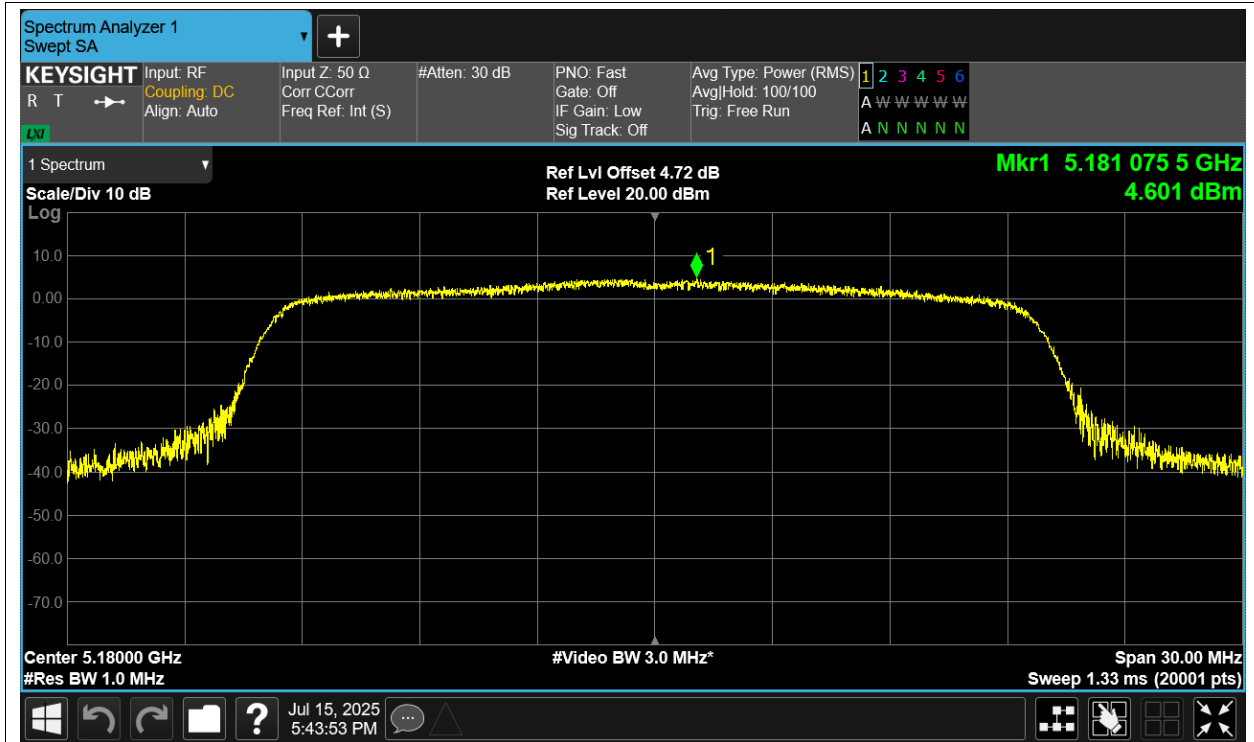
PSD NVNT ac20 5200MHz Ant1



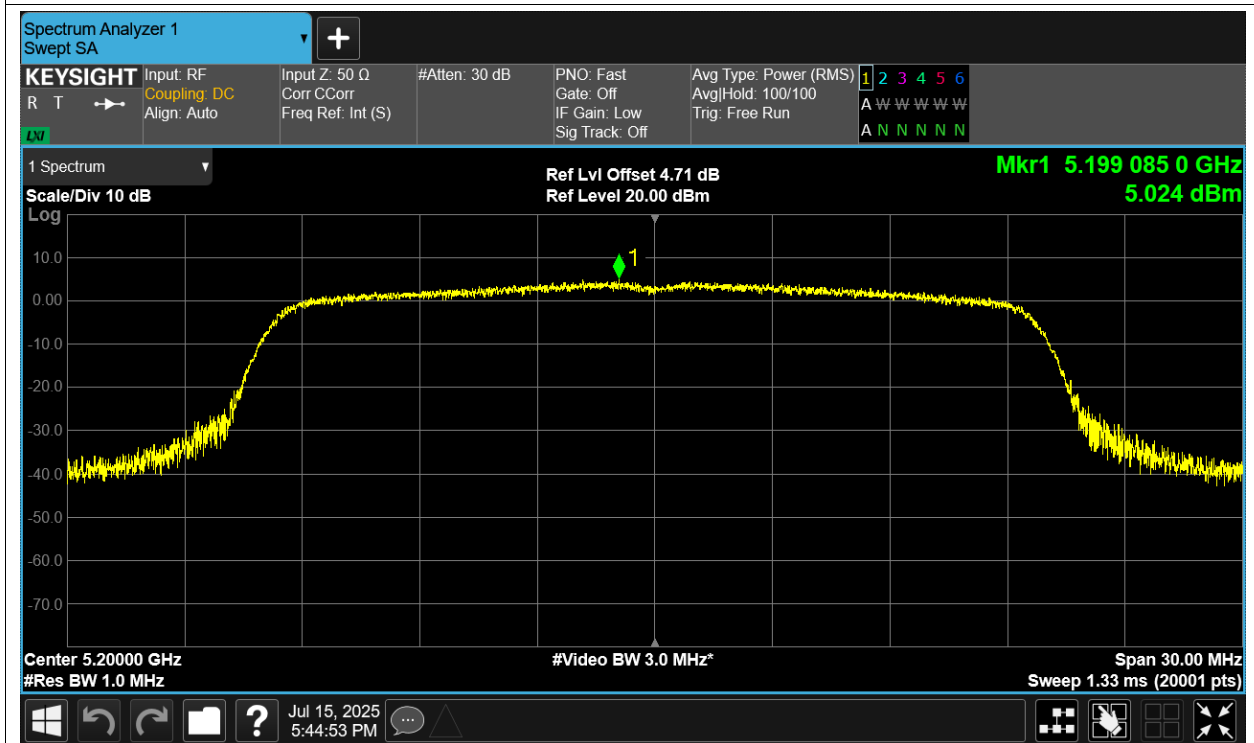
PSD NVNT ac20 5240MHz Ant1



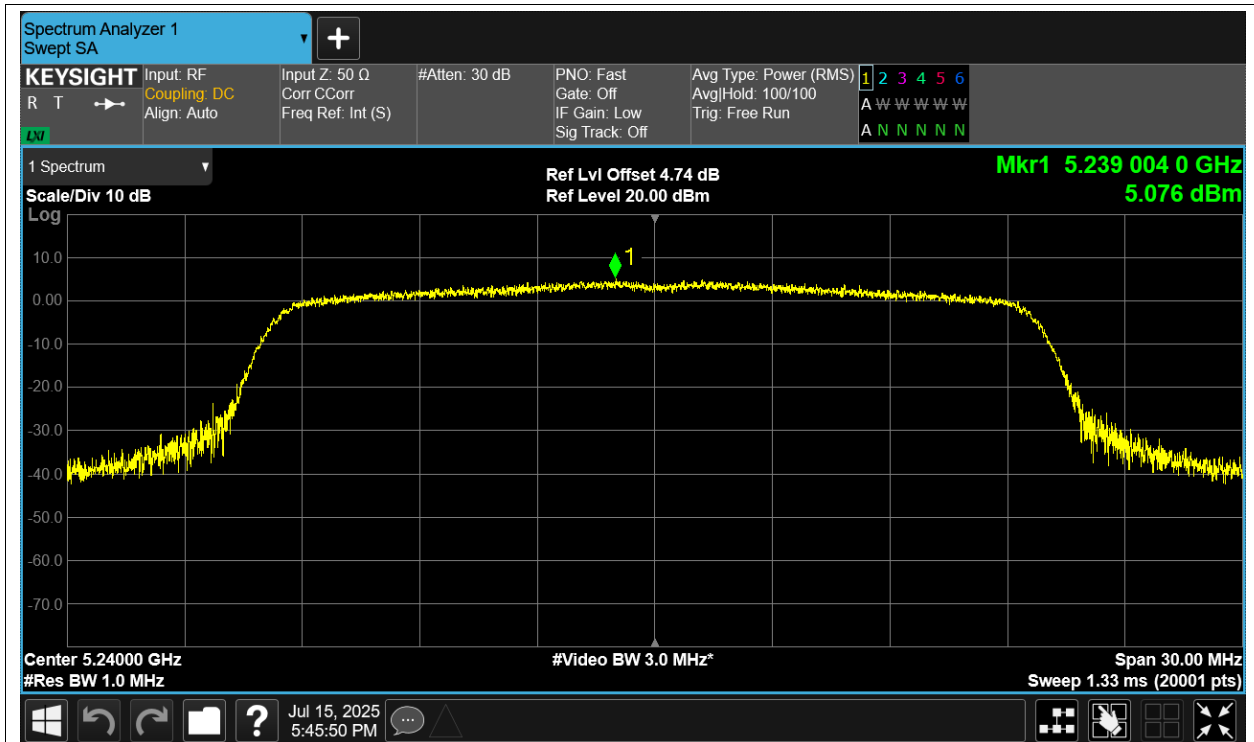
PSD NVNT ax20 5180MHz Ant1



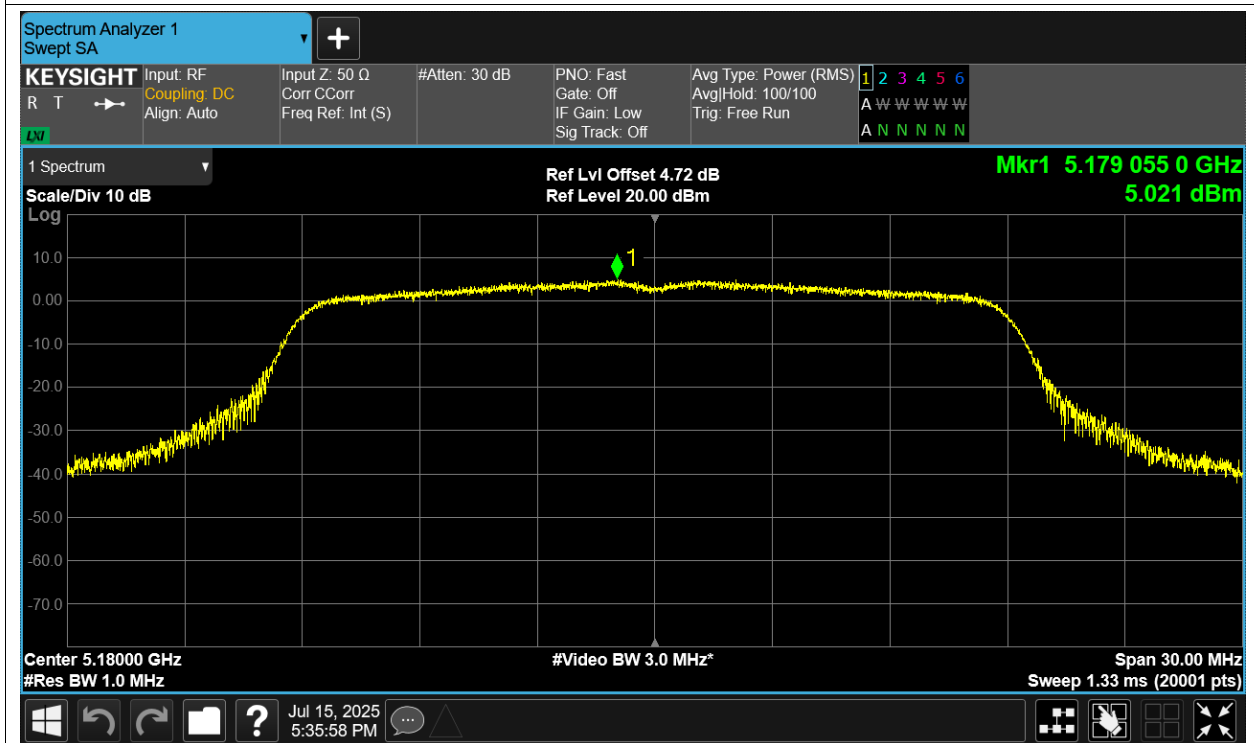
PSD NVNT ax20 5200MHz Ant1



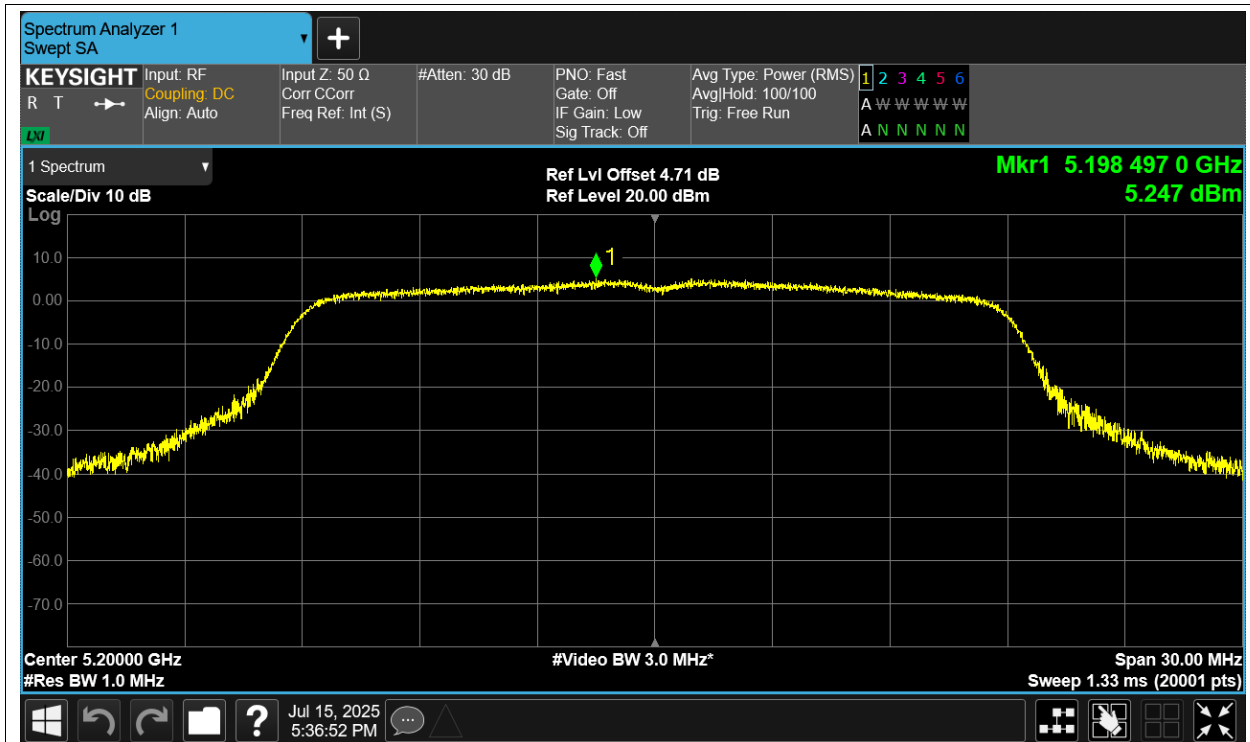
PSD NVNT ax20 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1

