

## Test Data

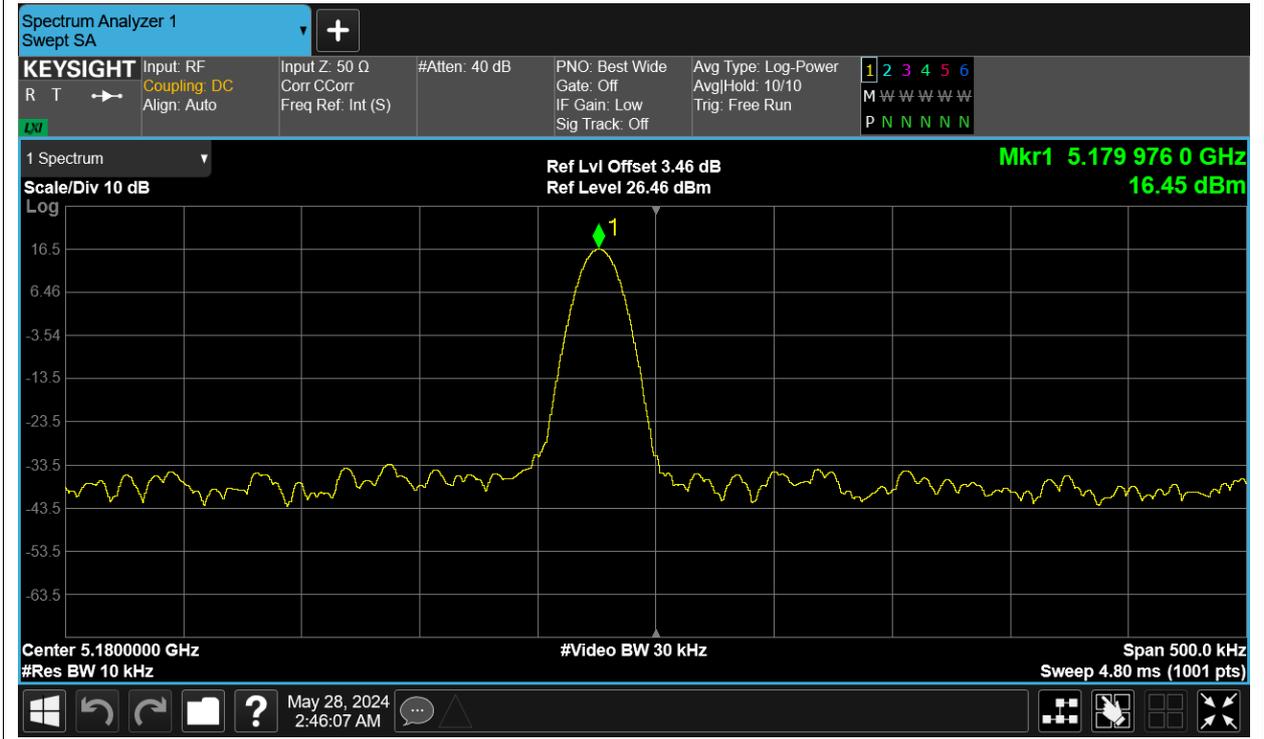
### Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5180	Ant12	5179.976	-4.63	Within authorized band	Pass
LVNT	a	5180	Ant12	5179.976	-4.63		Pass
NVHT	a	5180	Ant12	5179.9765	-4.54		Pass
NVLT	a	5180	Ant12	5179.9765	-4.54		Pass
NVNT	a	5180	Ant12	5179.9775	-4.34		Pass
HVNT	ac80	5210	Ant12	5209.977	-4.41		Pass
LVNT	ac80	5210	Ant12	5209.9775	-4.32		Pass
NVHT	ac80	5210	Ant12	5209.9775	-4.32		Pass
NVLT	ac80	5210	Ant12	5209.978	-4.22		Pass
NVNT	ac80	5210	Ant12	5209.9788	-4.07		Pass
HVNT	n40	5190	Ant12	5189.977	-4.43		Pass
LVNT	n40	5190	Ant12	5189.977	-4.43		Pass
NVHT	n40	5190	Ant12	5189.977	-4.43		Pass
NVLT	n40	5190	Ant12	5189.9765	-4.53		Pass
NVNT	n40	5190	Ant12	5189.977	-4.43		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 5180MHz Ant12



Freq. Stability LVNT a 5180MHz Ant12



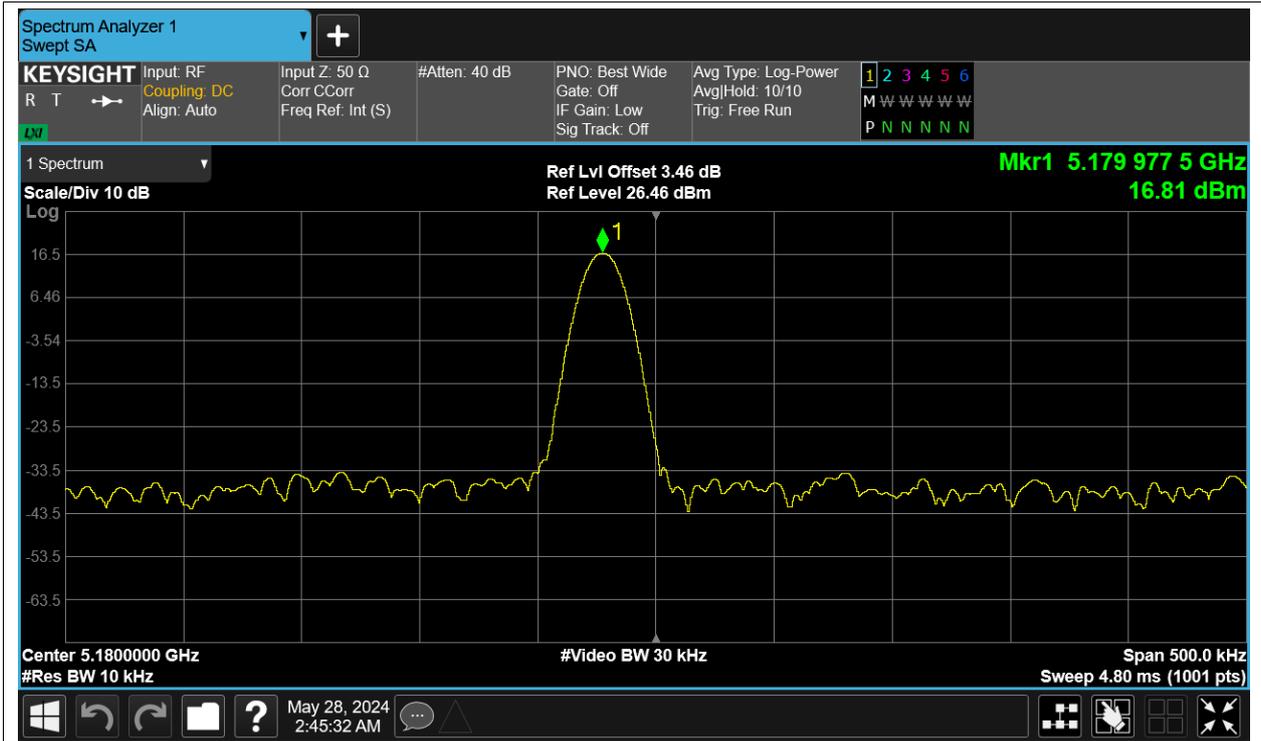
Freq. Stability NVHT a 5180MHz Ant12



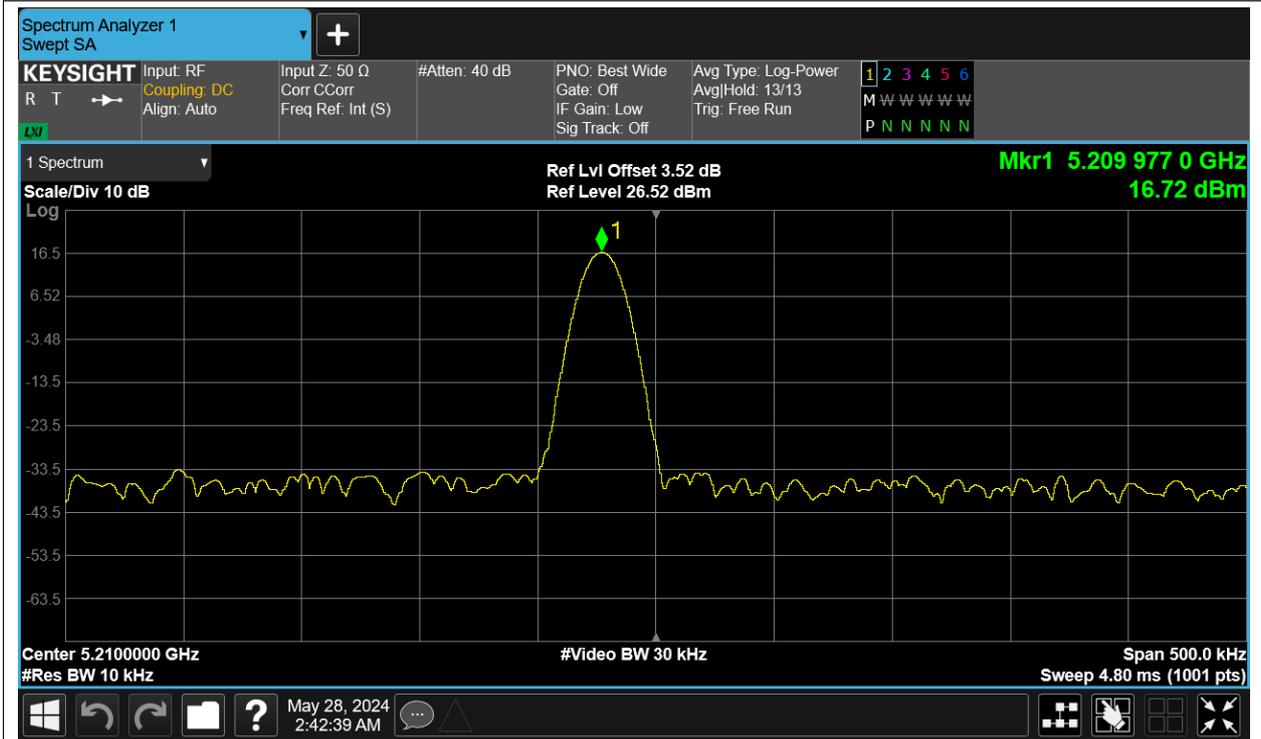
Freq. Stability NVLT a 5180MHz Ant12



Freq. Stability NVNT a 5180MHz Ant12



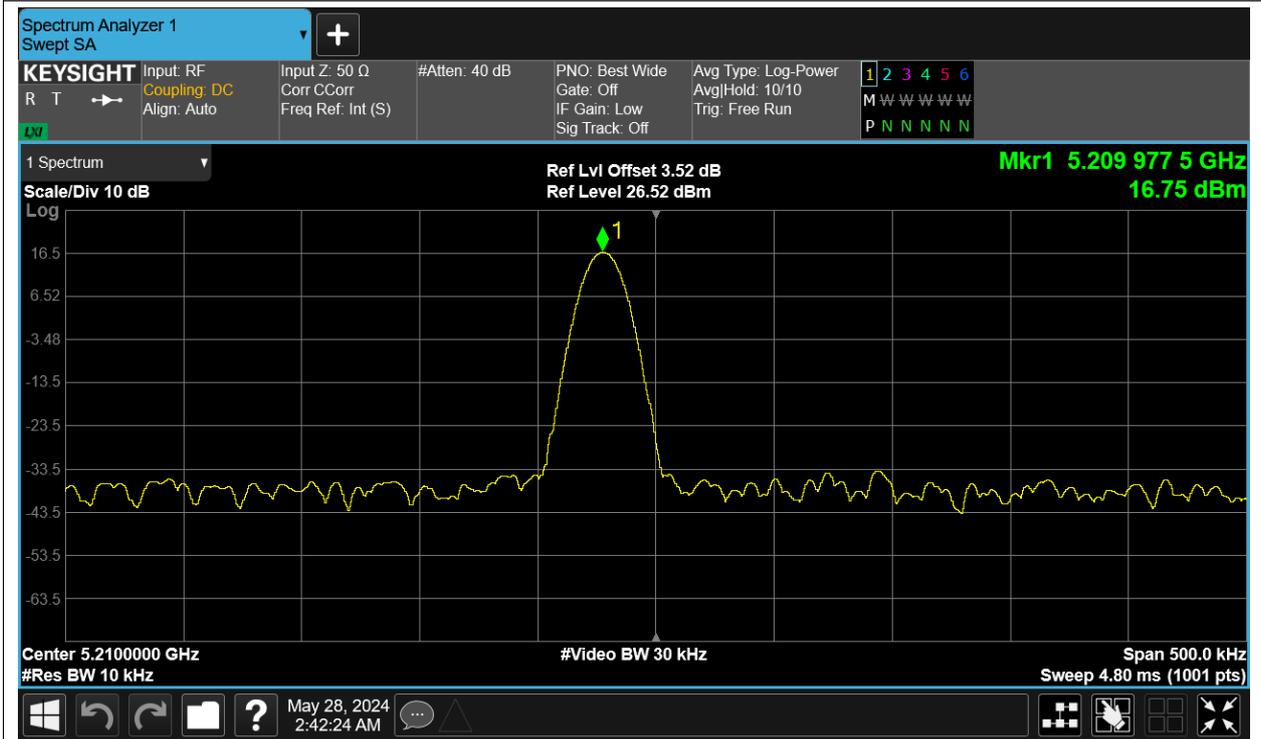
Freq. Stability HVNT ac80 5210MHz Ant12



Freq. Stability LVNT ac80 5210MHz Ant12



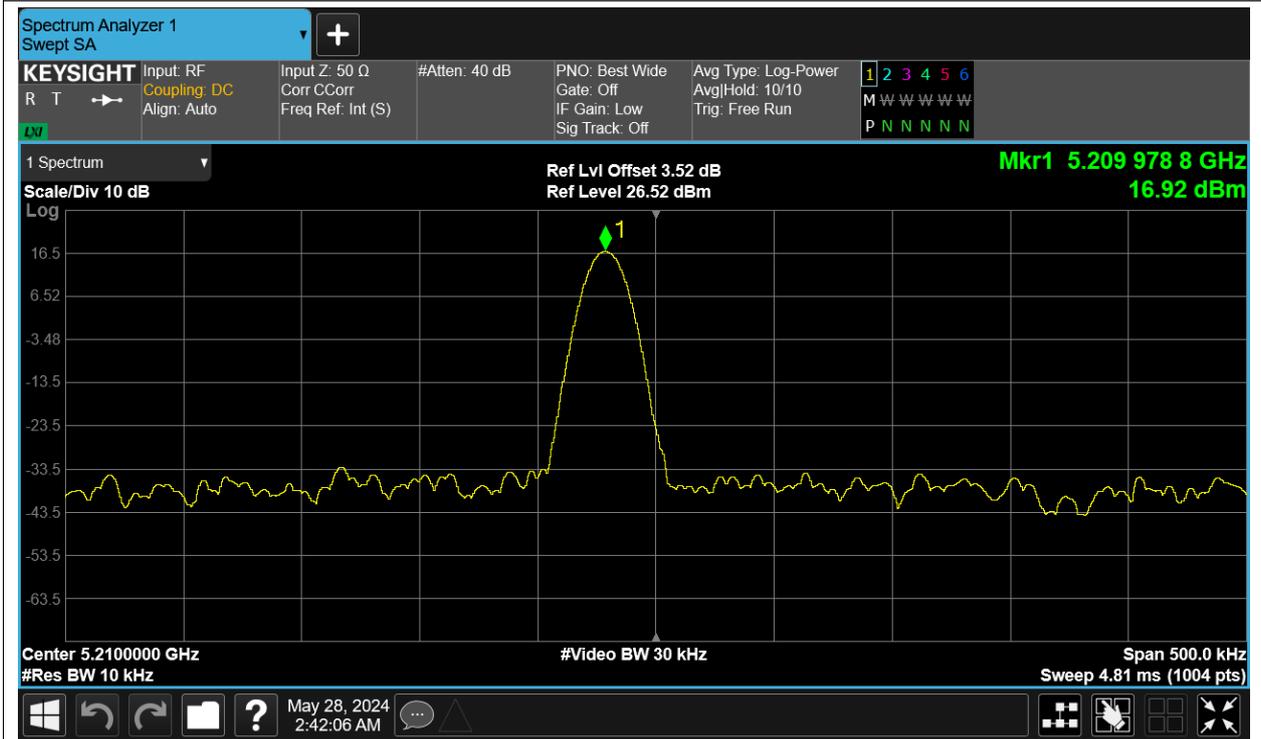
Freq. Stability NVHT ac80 5210MHz Ant12



Freq. Stability NVLT ac80 5210MHz Ant12



Freq. Stability NVNT ac80 5210MHz Ant12



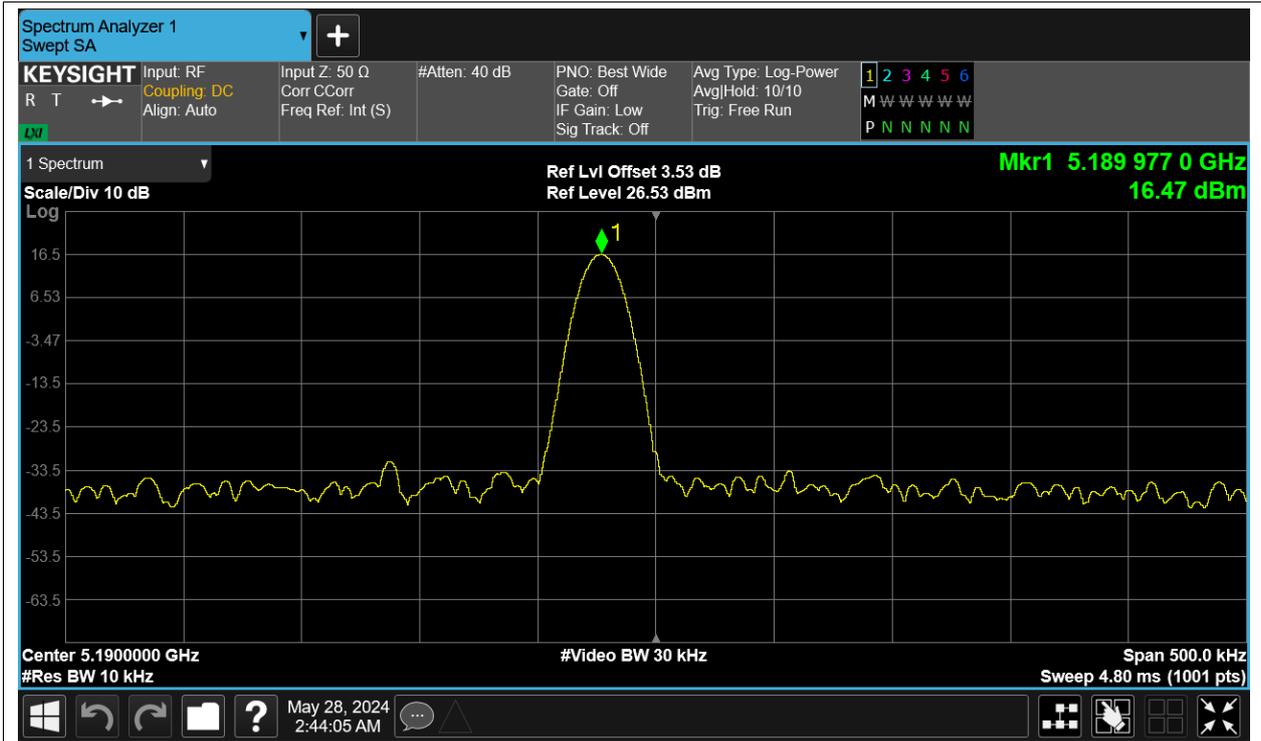
Freq. Stability HVNT n40 5190MHz Ant12



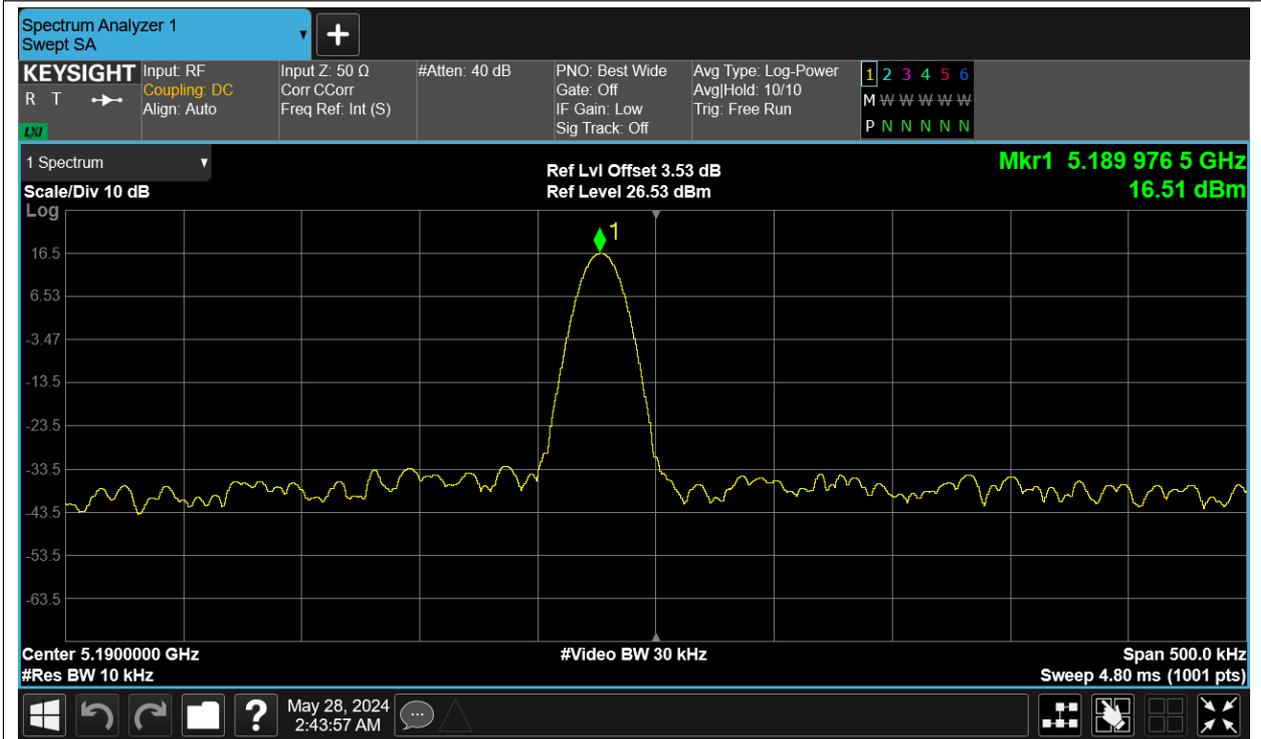
Freq. Stability LVNT n40 5190MHz Ant12



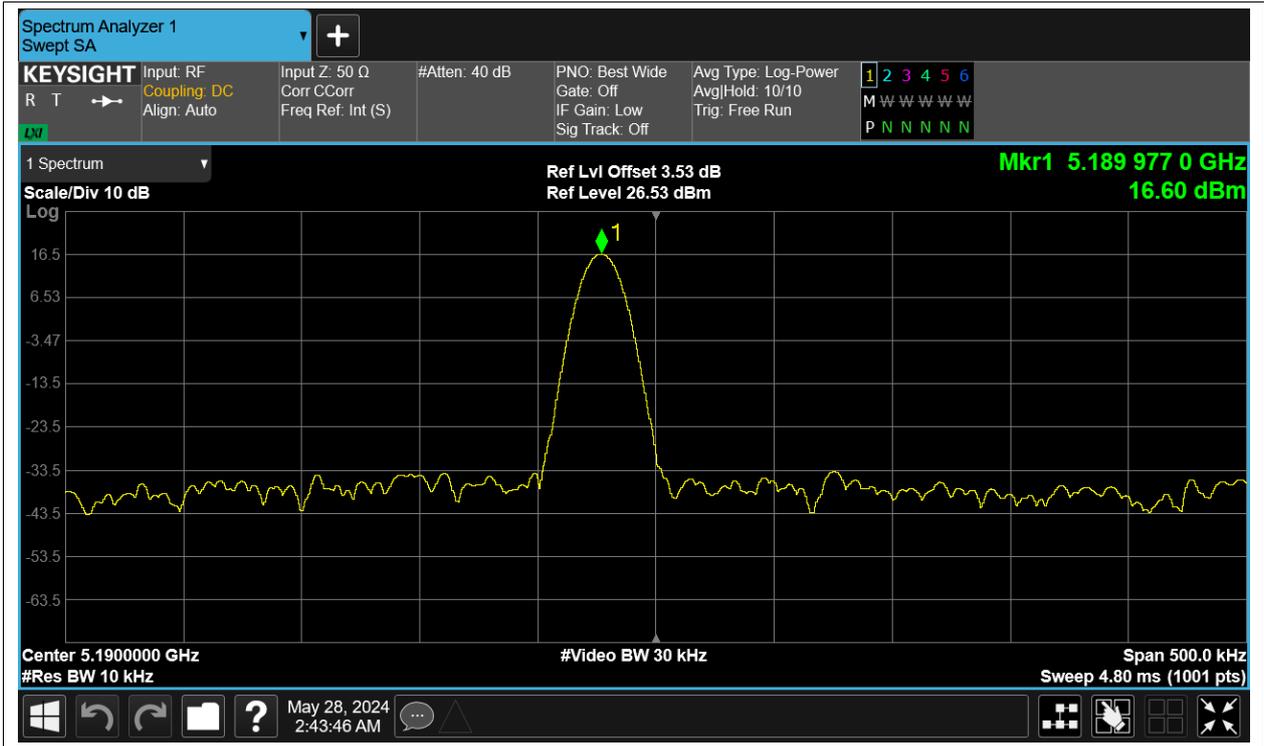
Freq. Stability NVHT n40 5190MHz Ant12



Freq. Stability NVLT n40 5190MHz Ant12



Freq. Stability NVNT n40 5190MHz Ant12

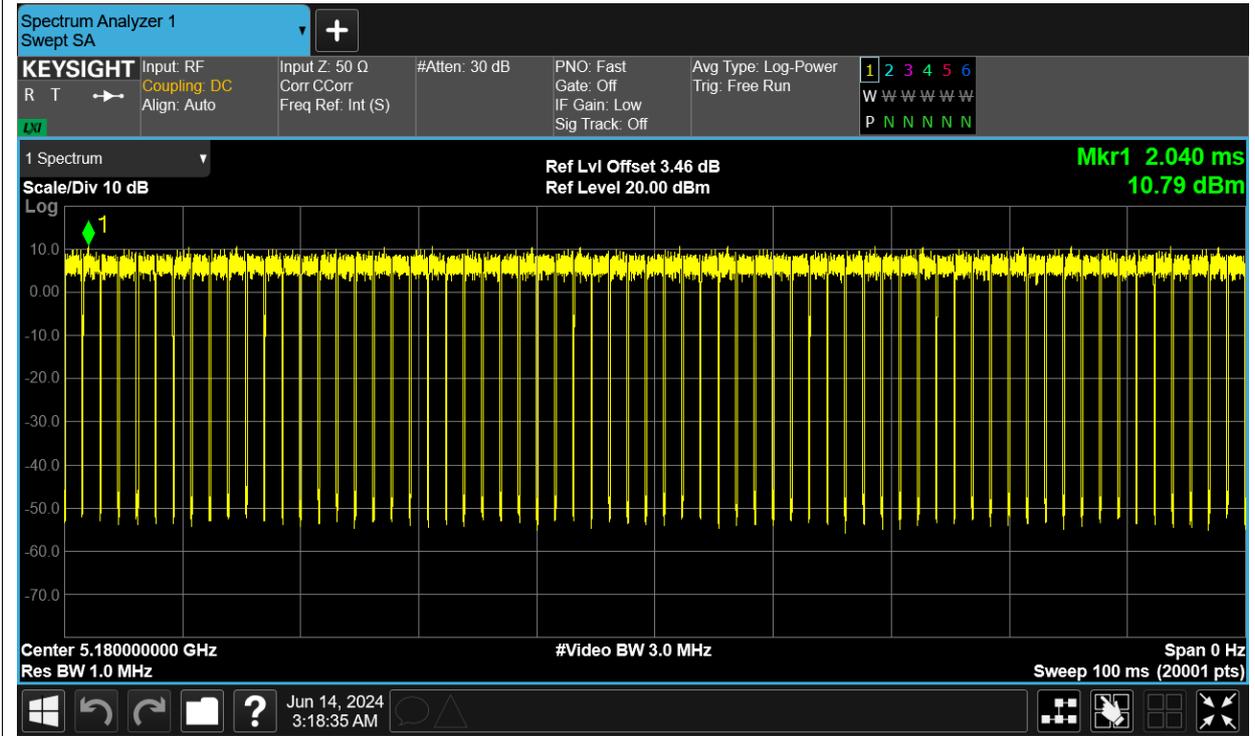


## Duty Cycle

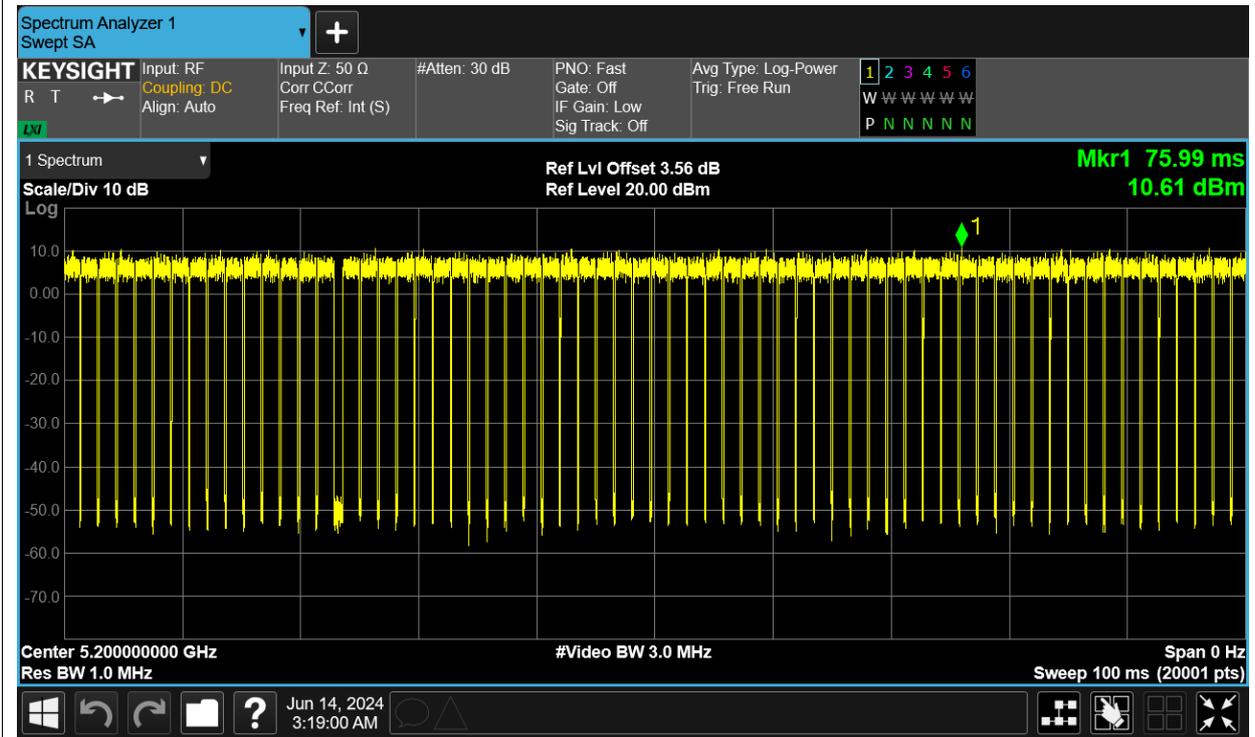
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant12	90.86	0.42
NVNT	a	5200	Ant12	90.53	0.43
NVNT	a	5240	Ant12	90.73	0.42
NVNT	ac20	5180	Ant12	89.24	0.49
NVNT	ac20	5200	Ant12	89.39	0.49
NVNT	ac20	5240	Ant12	89.31	0.49
NVNT	ac40	5190	Ant12	80	0.97
NVNT	ac40	5230	Ant12	80.63	0.93
NVNT	ac80	5210	Ant12	67.37	1.72
NVNT	n20	5180	Ant12	89.23	0.5
NVNT	n20	5200	Ant12	89.51	0.48
NVNT	n20	5240	Ant12	89.25	0.49
NVNT	n40	5190	Ant12	80.7	0.93
NVNT	n40	5230	Ant12	81.2	0.9

Test Graphs

Duty Cycle NVNT a 5180MHz Ant12



Duty Cycle NVNT a 5200MHz Ant12



Duty Cycle NVNT a 5240MHz Ant12



Duty Cycle NVNT ac20 5180MHz Ant12



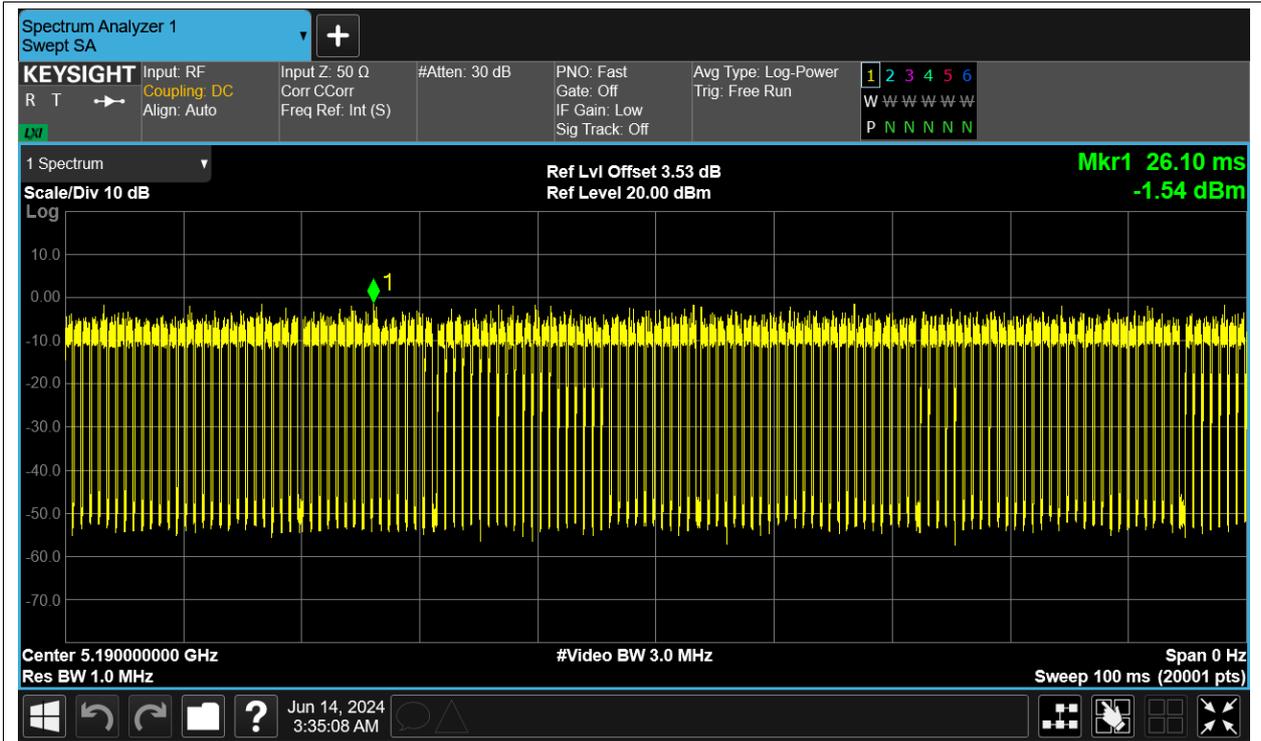
Duty Cycle NVNT ac20 5200MHz Ant12



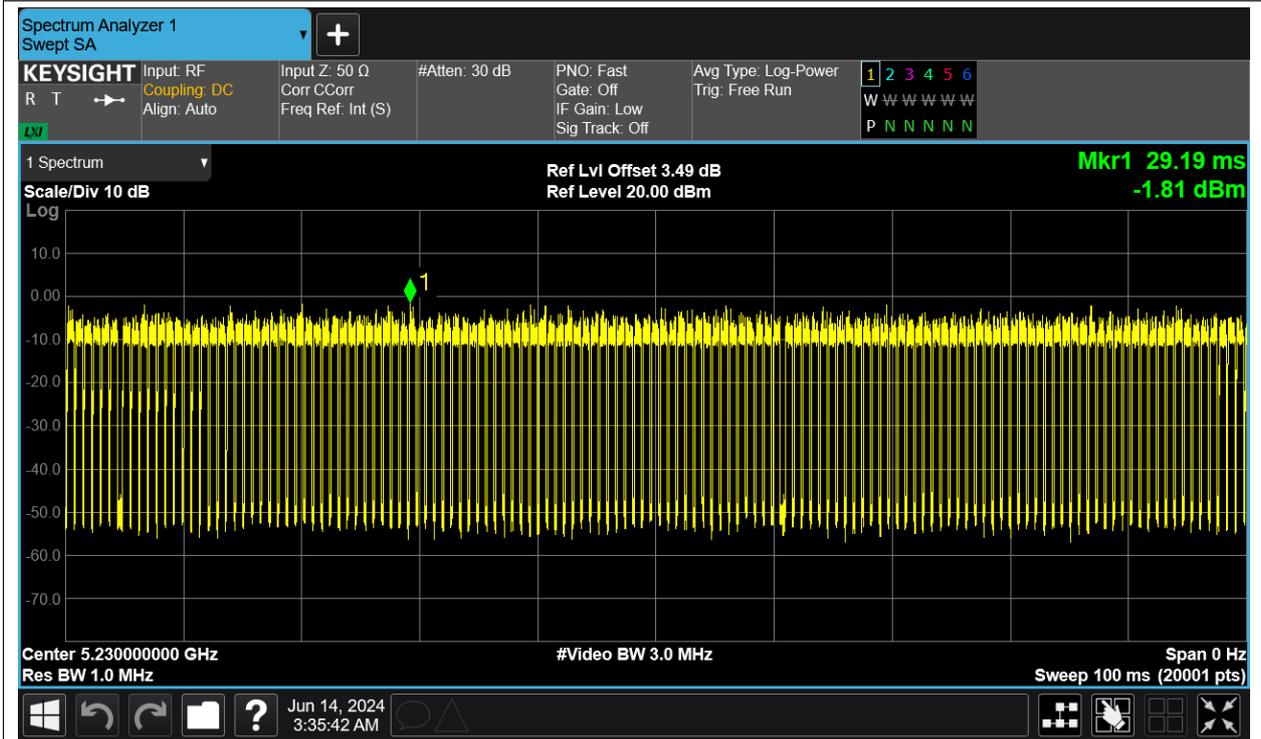
Duty Cycle NVNT ac20 5240MHz Ant12



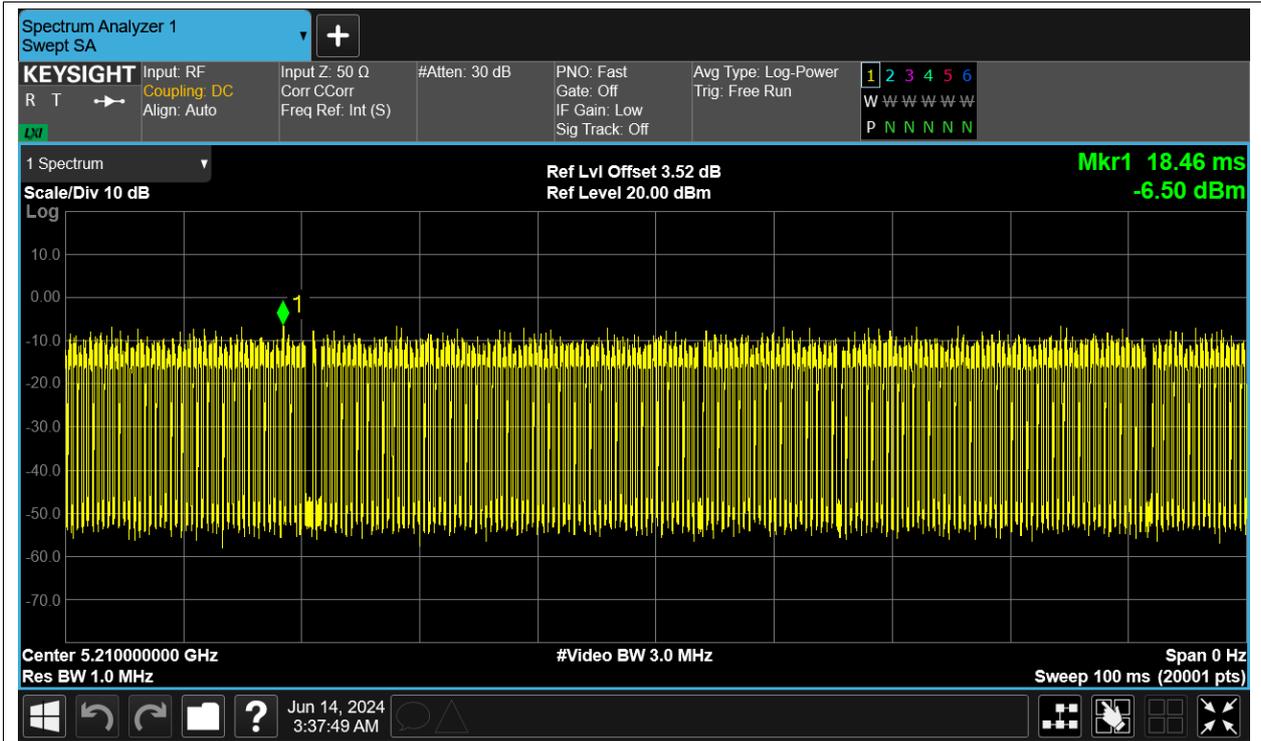
Duty Cycle NVNT ac40 5190MHz Ant12



Duty Cycle NVNT ac40 5230MHz Ant12



Duty Cycle NVNT ac80 5210MHz Ant12



Duty Cycle NVNT n20 5180MHz Ant12



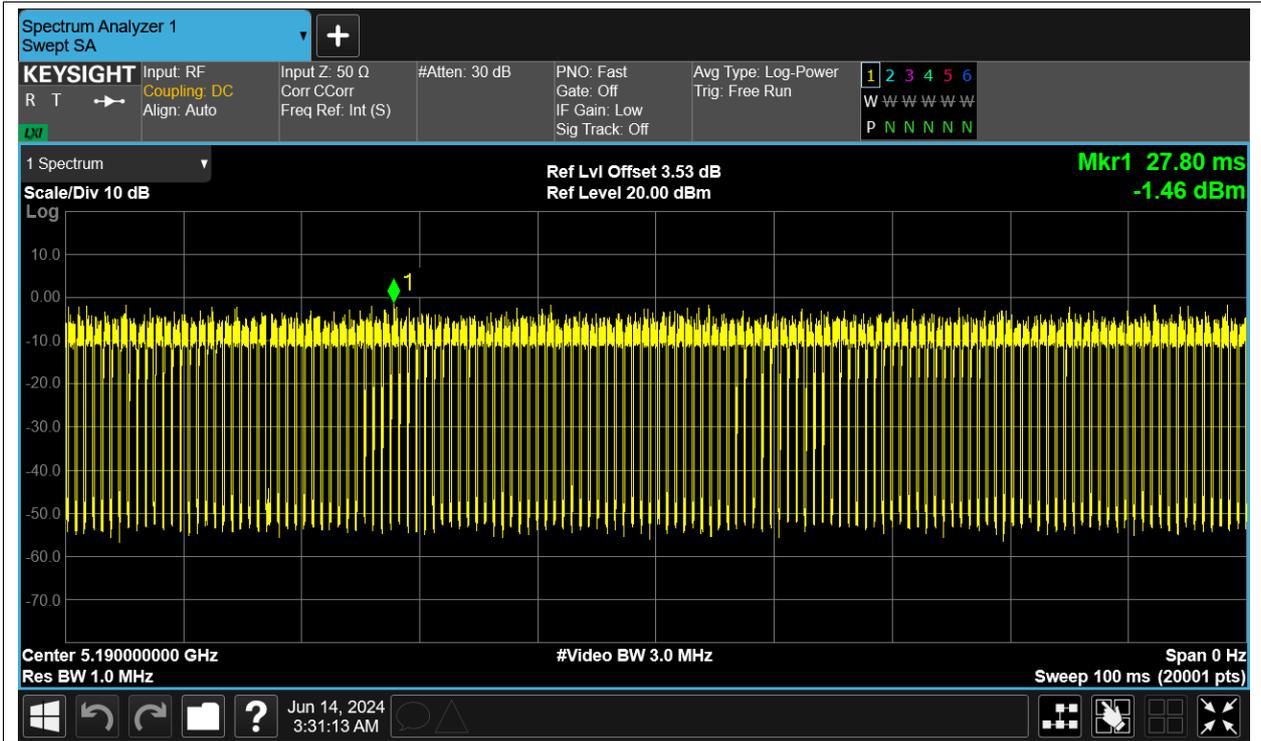
Duty Cycle NVNT n20 5200MHz Ant12



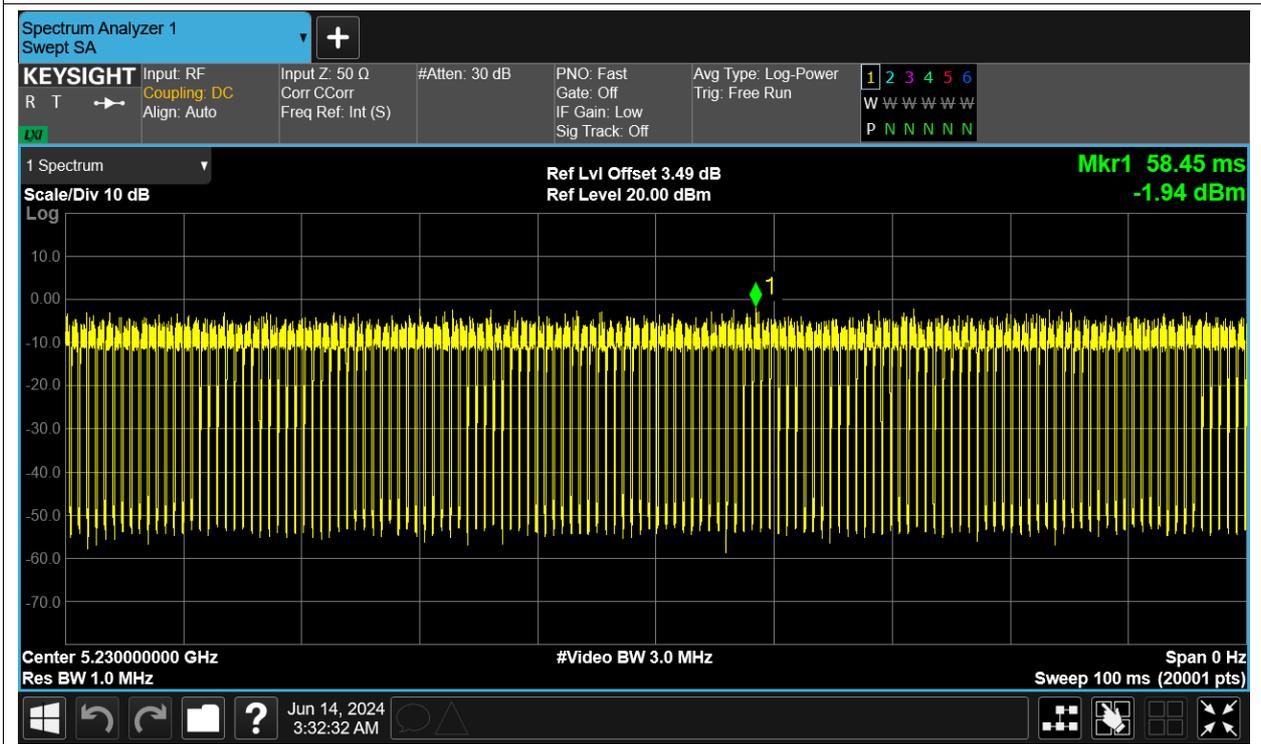
Duty Cycle NVNT n20 5240MHz Ant12



Duty Cycle NVNT n40 5190MHz Ant12



Duty Cycle NVNT n40 5230MHz Ant12



## Maximum Conducted Output Power

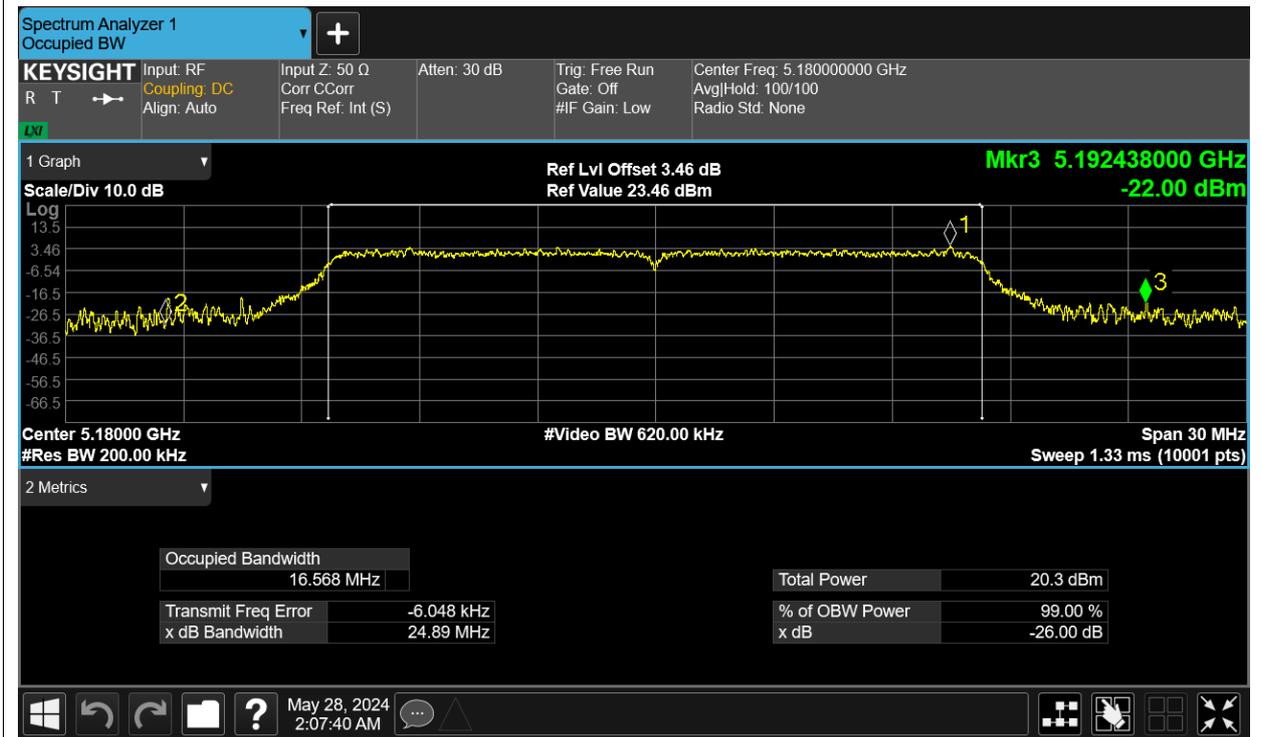
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant12	15.26	0.42	15.68	24	Pass
NVNT	a	5200	Ant12	14.93	0.43	15.36	24	Pass
NVNT	a	5240	Ant12	14.99	0.42	15.41	24	Pass
NVNT	ac20	5180	Ant12	13.98	0.49	14.47	24	Pass
NVNT	ac20	5200	Ant12	13.96	0.49	14.45	24	Pass
NVNT	ac20	5240	Ant12	13.79	0.49	14.28	24	Pass
NVNT	ac40	5190	Ant12	7.53	0.97	8.5	24	Pass
NVNT	ac40	5230	Ant12	7.78	0.93	8.71	24	Pass
NVNT	ac80	5210	Ant12	5.75	1.72	7.47	24	Pass
NVNT	n20	5180	Ant12	14.32	0.5	14.82	24	Pass
NVNT	n20	5200	Ant12	14.27	0.48	14.75	24	Pass
NVNT	n20	5240	Ant12	13.81	0.49	14.3	24	Pass
NVNT	n40	5190	Ant12	7.49	0.93	8.42	24	Pass
NVNT	n40	5230	Ant12	7.78	0.9	8.68	24	Pass

## -26dB Bandwidth

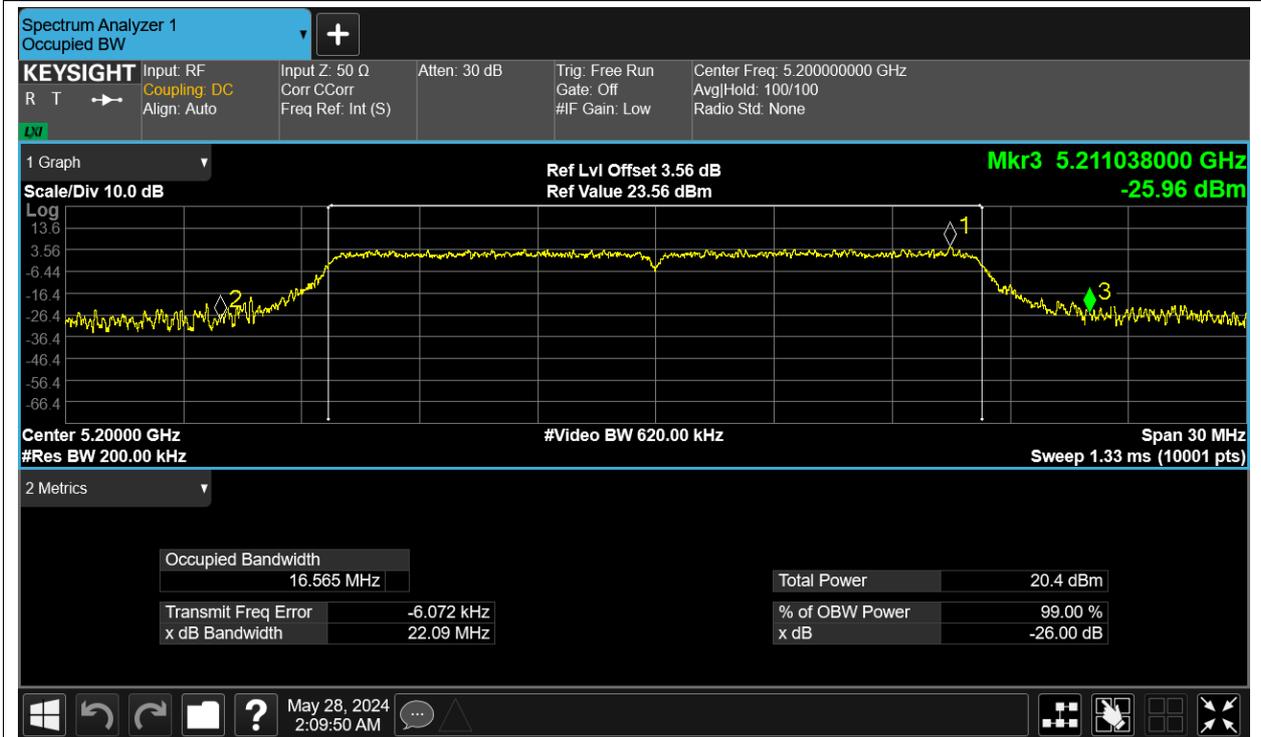
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant12	24.887
NVNT	a	5200	Ant12	22.088
NVNT	a	5240	Ant12	21.695
NVNT	ac20	5180	Ant12	24.566
NVNT	ac20	5200	Ant12	23.547
NVNT	ac20	5240	Ant12	25.392
NVNT	ac40	5190	Ant12	48.466
NVNT	ac40	5230	Ant12	47.705
NVNT	ac80	5210	Ant12	78.038
NVNT	n20	5180	Ant12	27.154
NVNT	n20	5200	Ant12	27.455
NVNT	n20	5240	Ant12	25.961
NVNT	n40	5190	Ant12	51.945
NVNT	n40	5230	Ant12	52.657

Test Graphs

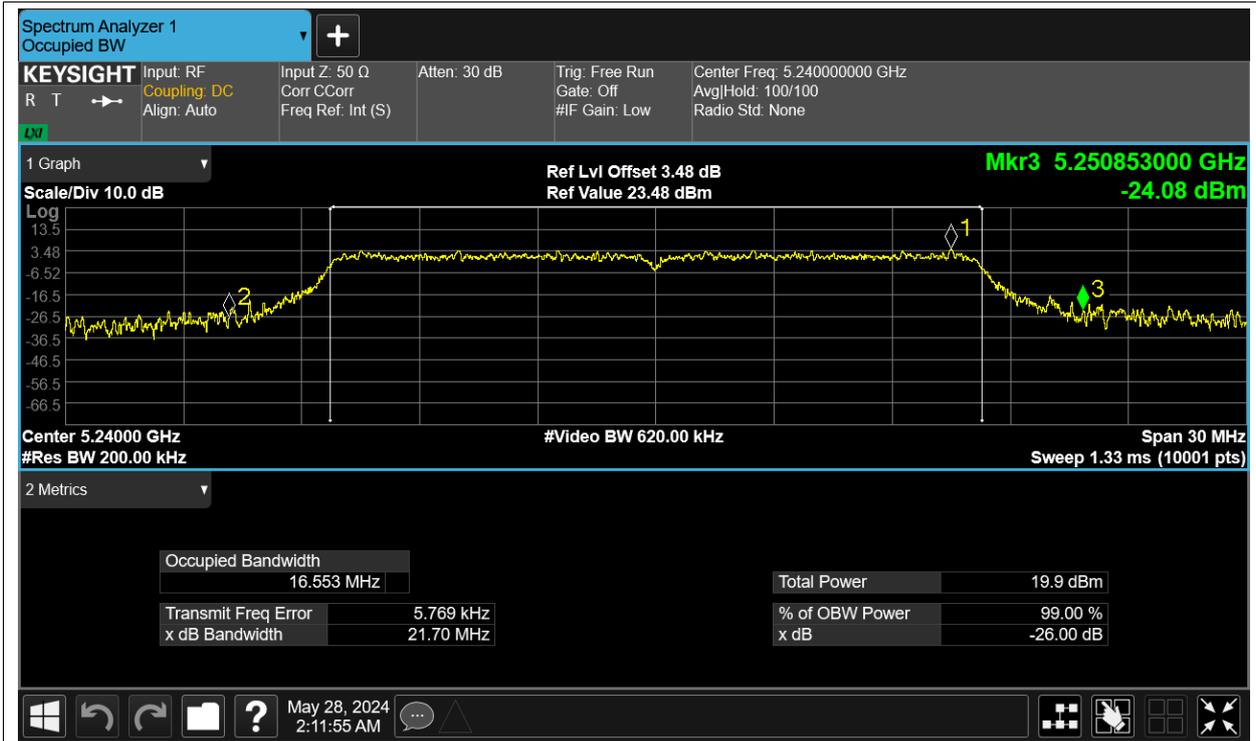
-26dB Bandwidth NVNT a 5180MHz Ant12



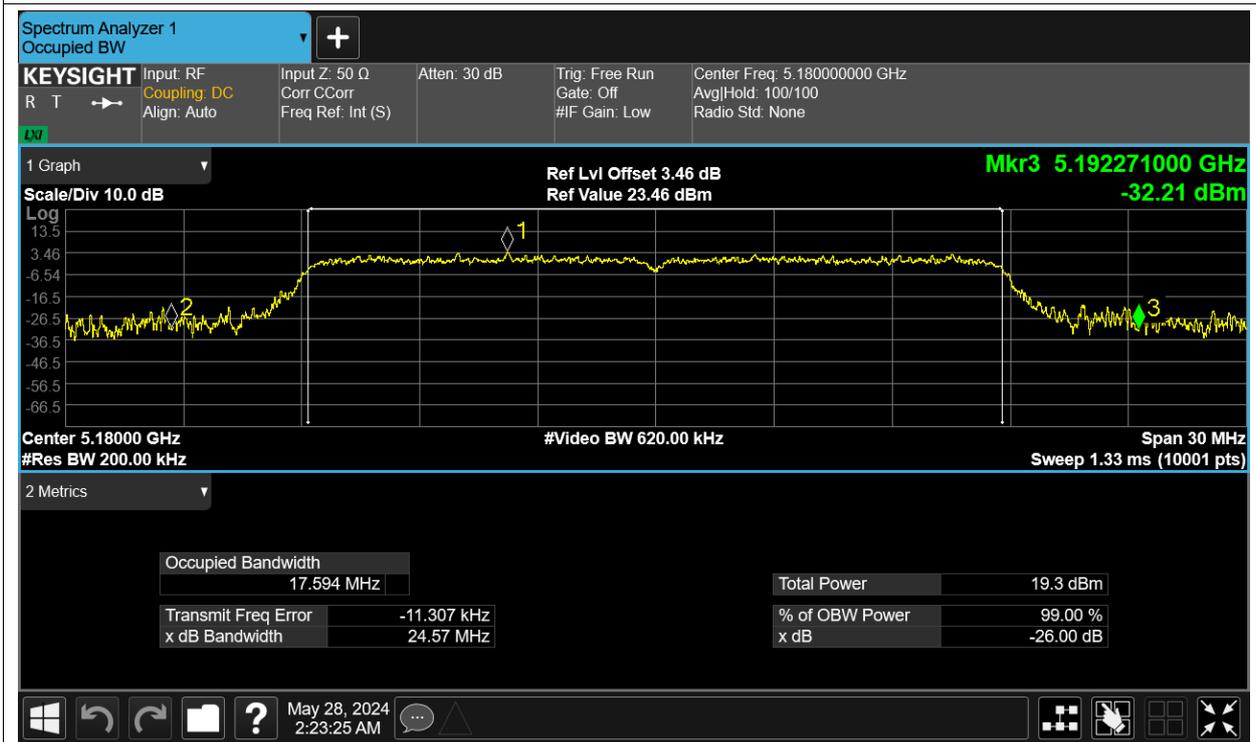
-26dB Bandwidth NVNT a 5200MHz Ant12



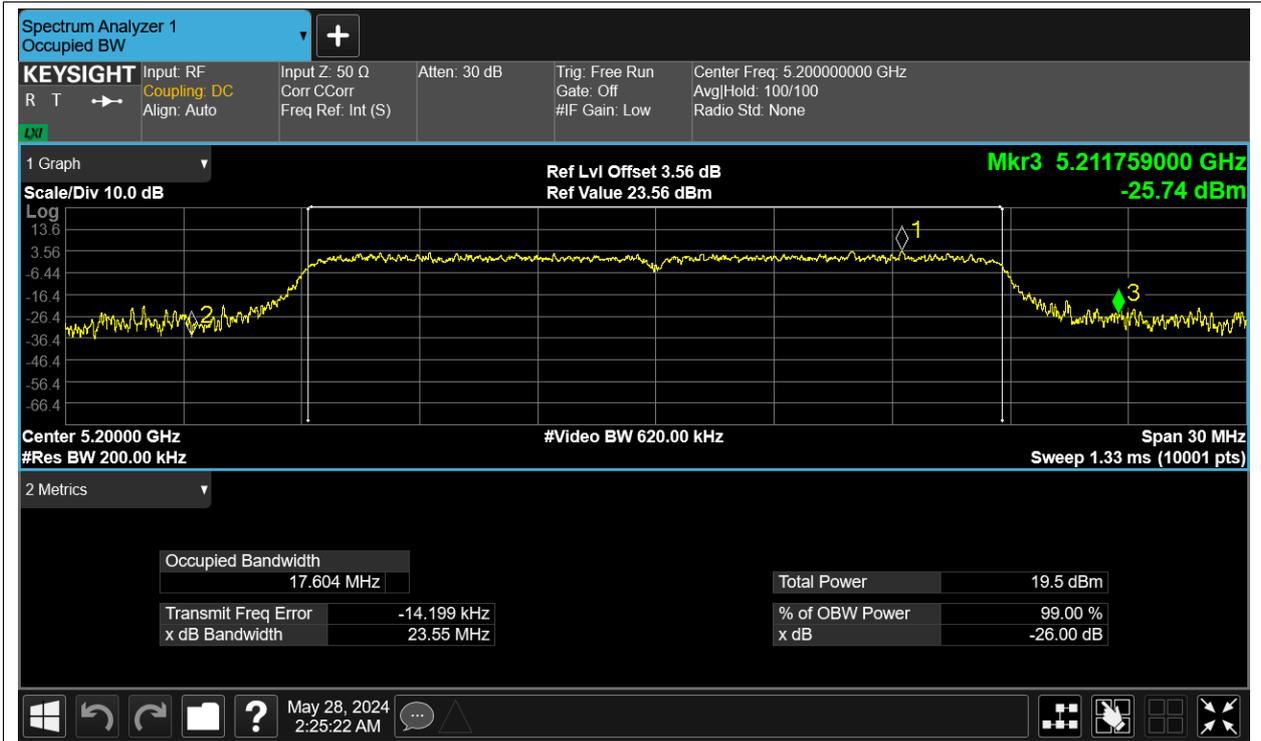
-26dB Bandwidth NVNT a 5240MHz Ant12



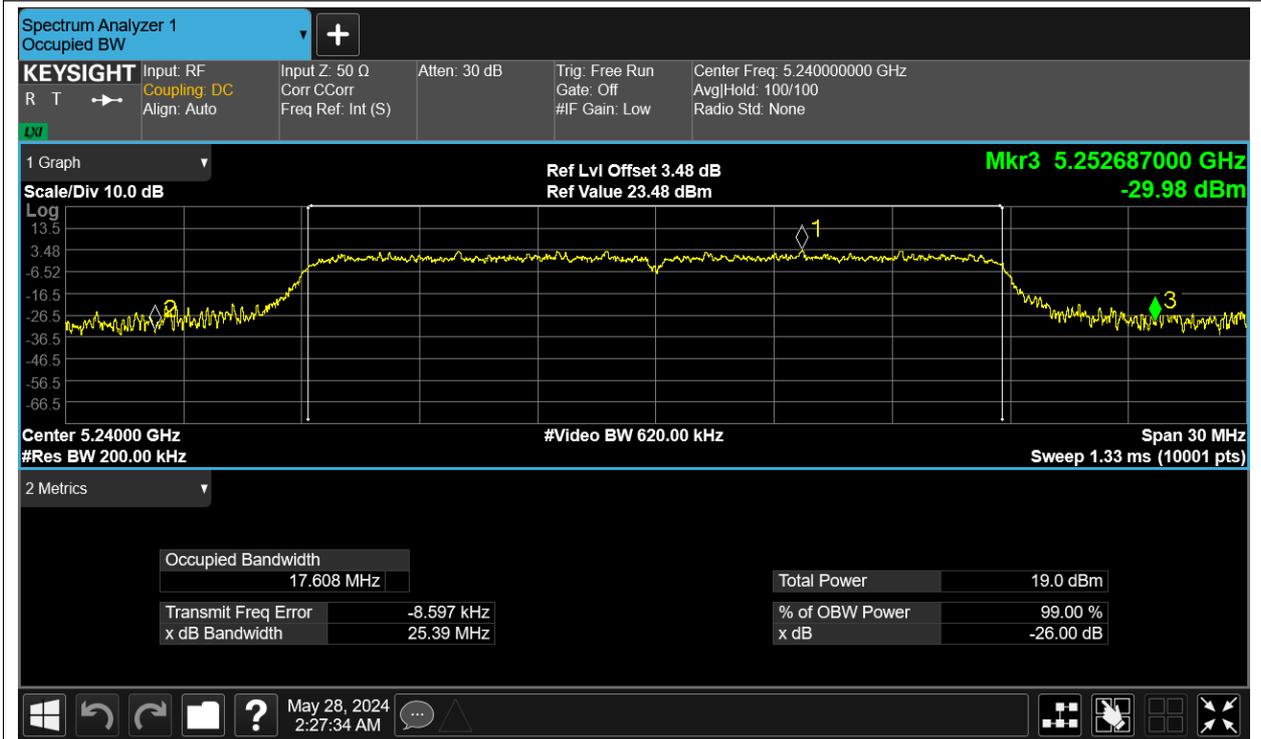
-26dB Bandwidth NVNT ac20 5180MHz Ant12



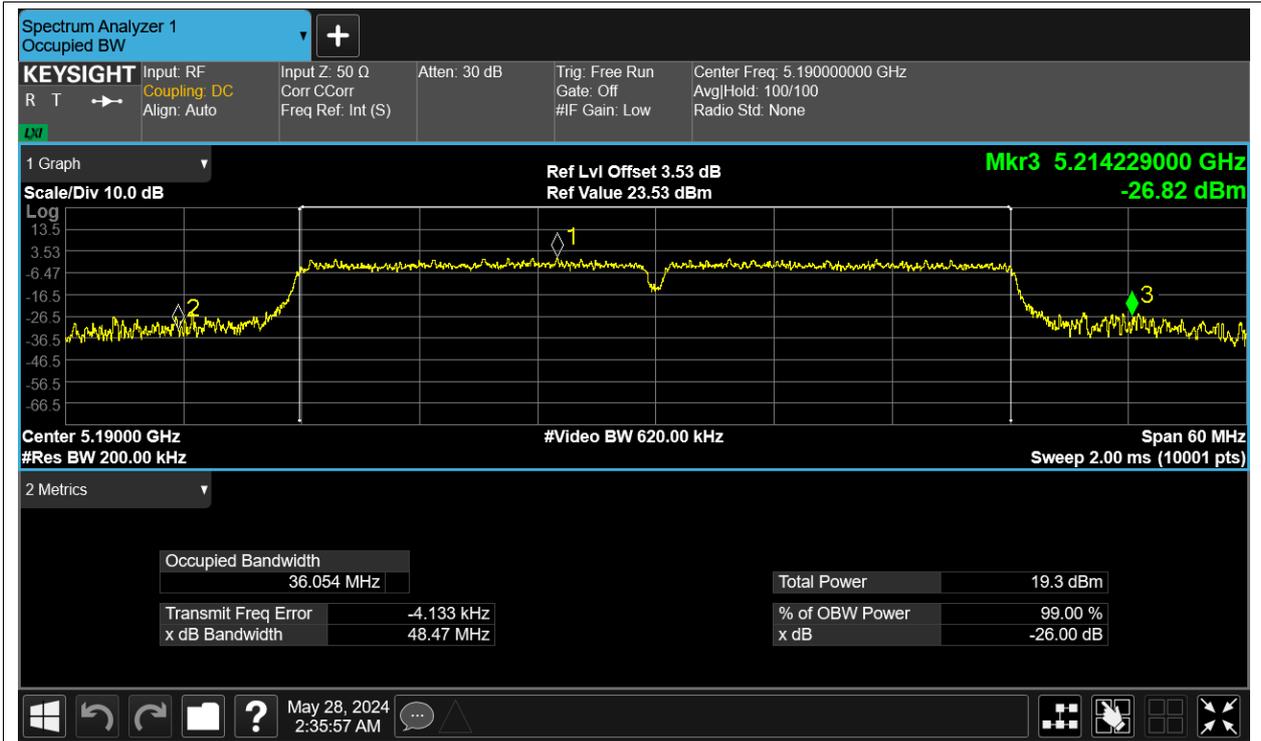
-26dB Bandwidth NVNT ac20 5200MHz Ant12



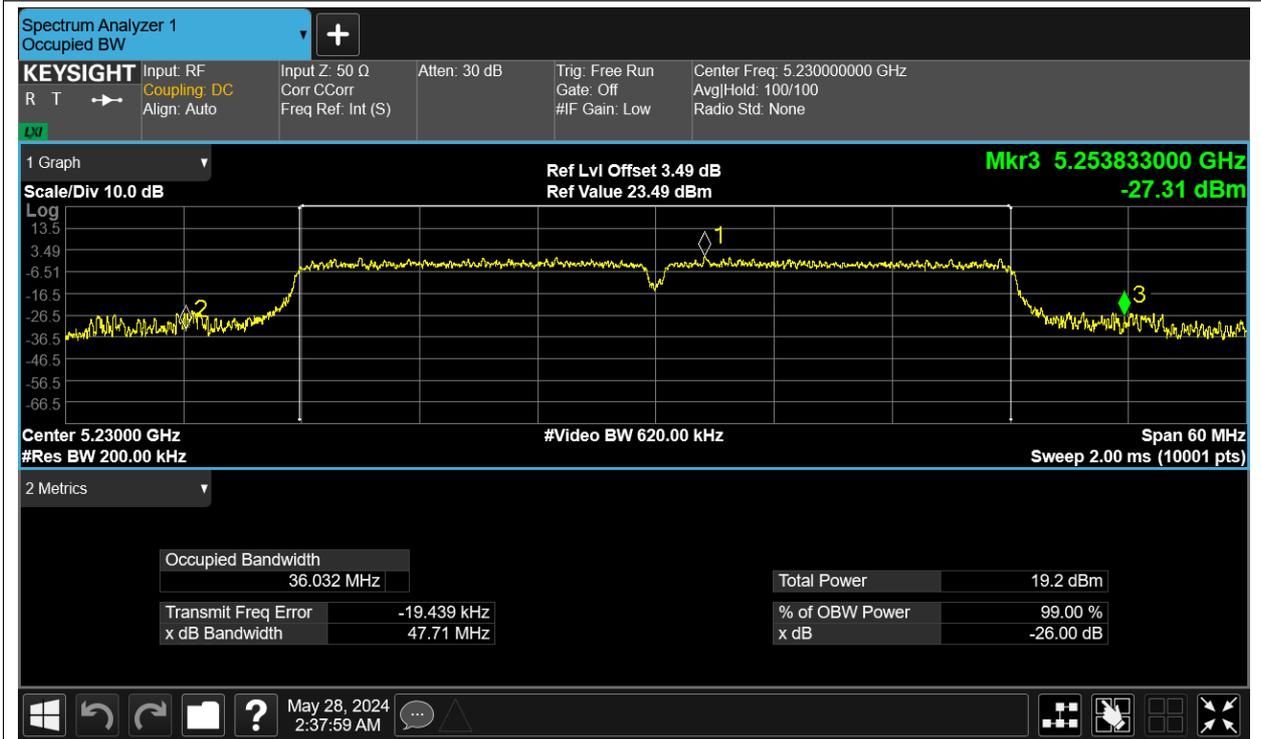
-26dB Bandwidth NVNT ac20 5240MHz Ant12



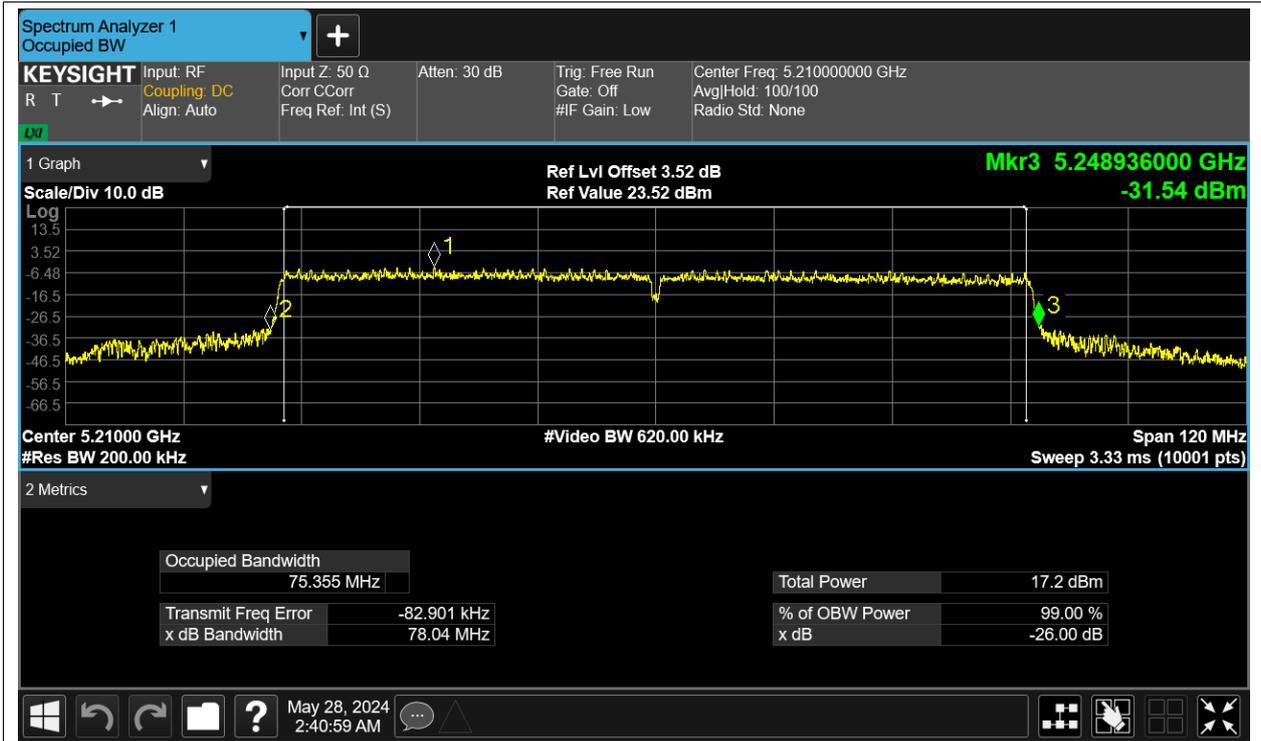
-26dB Bandwidth NVNT ac40 5190MHz Ant12



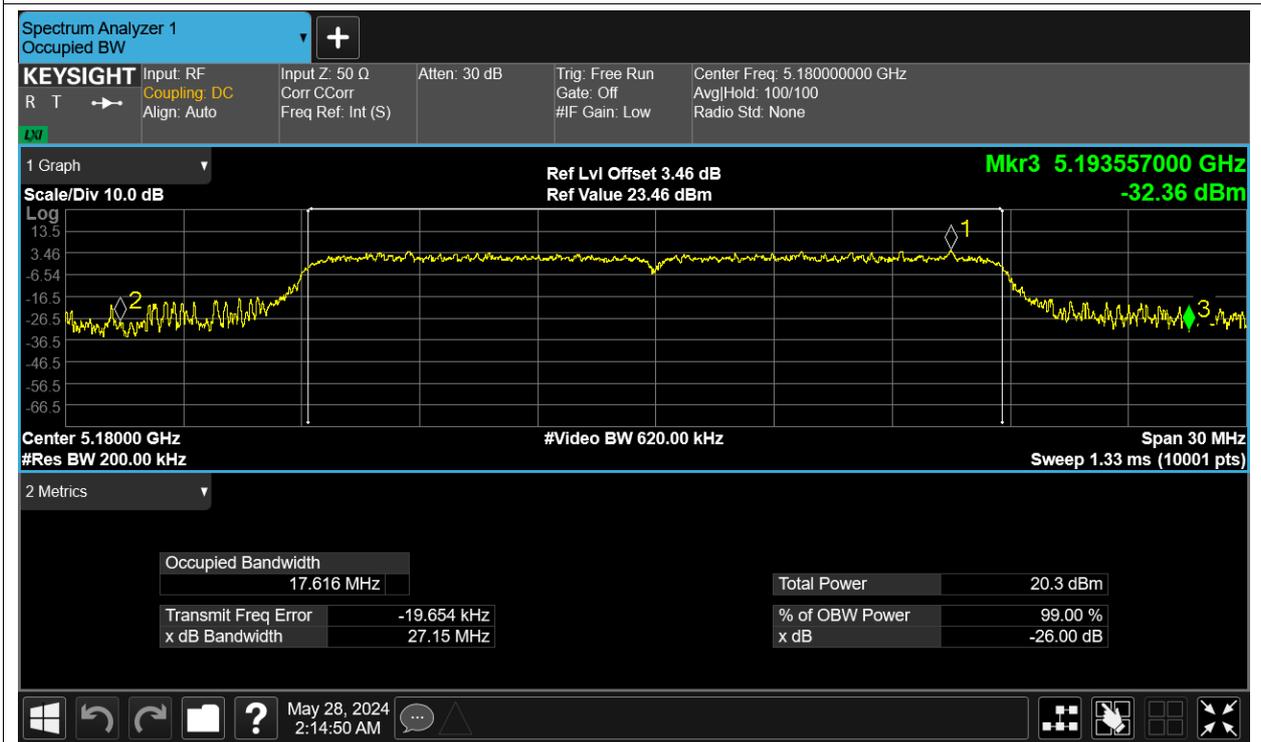
-26dB Bandwidth NVNT ac40 5230MHz Ant12



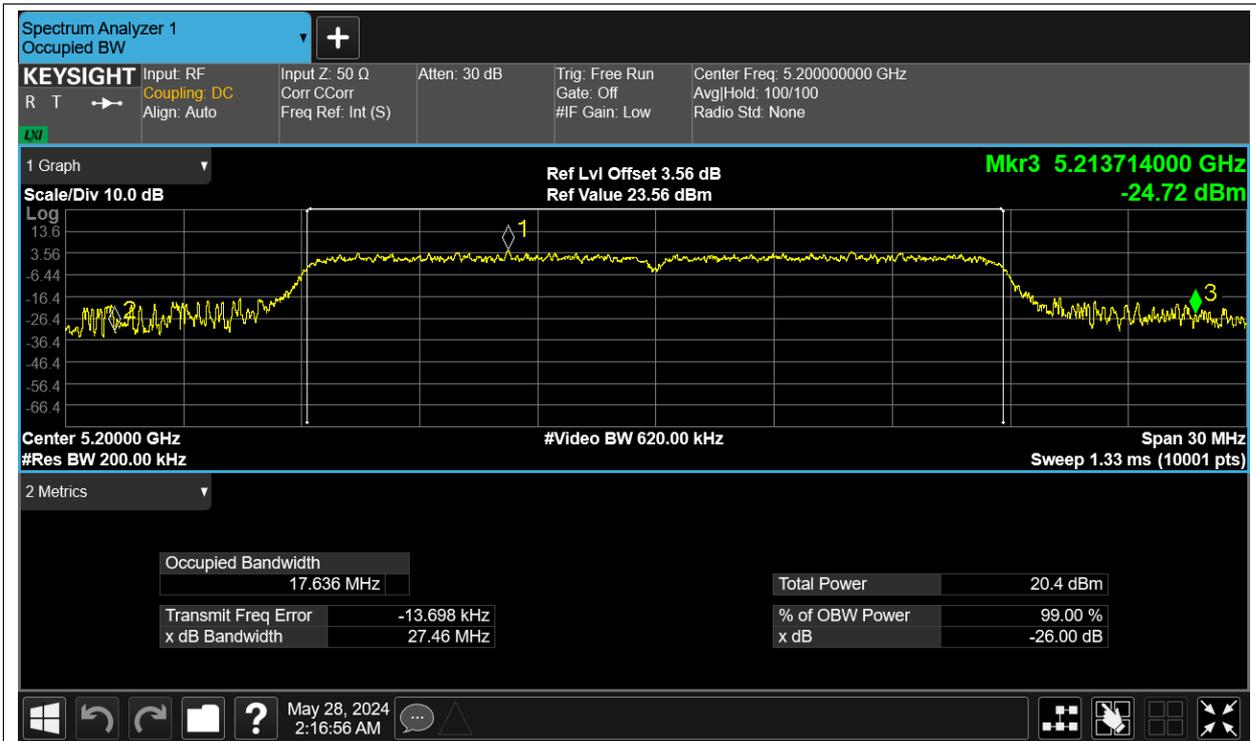
-26dB Bandwidth NVNT ac80 5210MHz Ant12



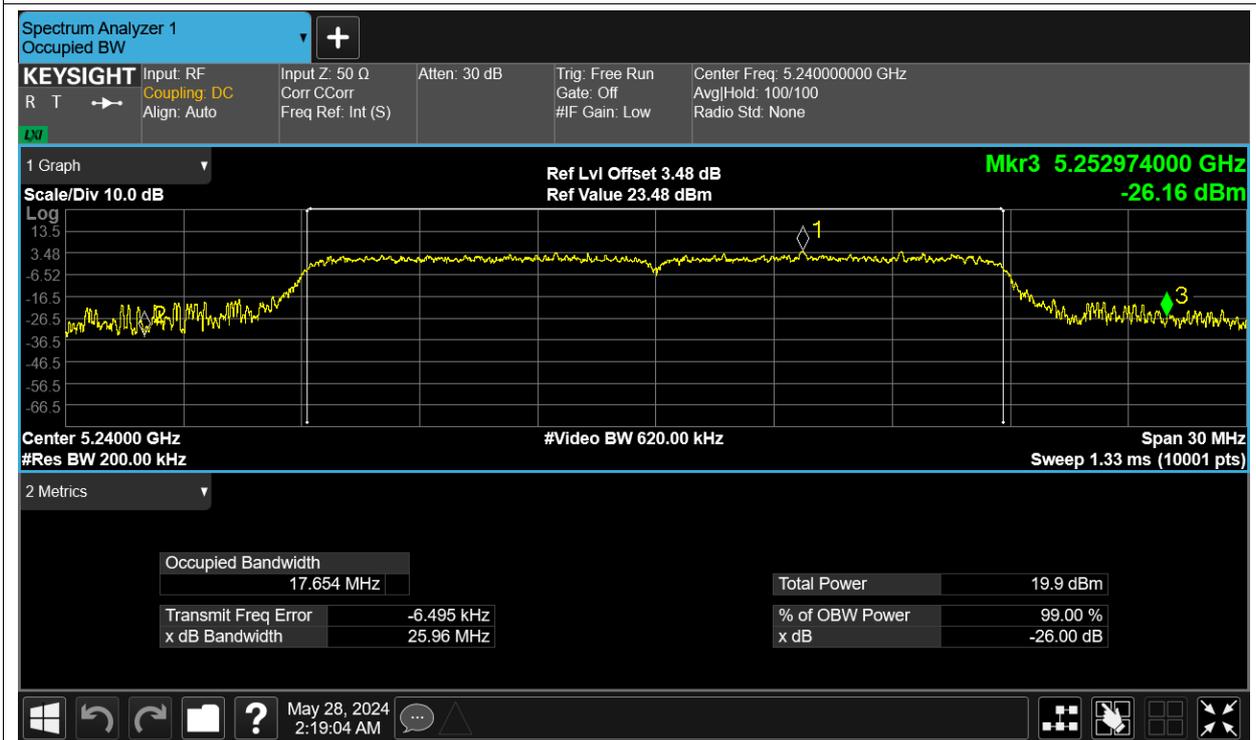
-26dB Bandwidth NVNT n20 5180MHz Ant12



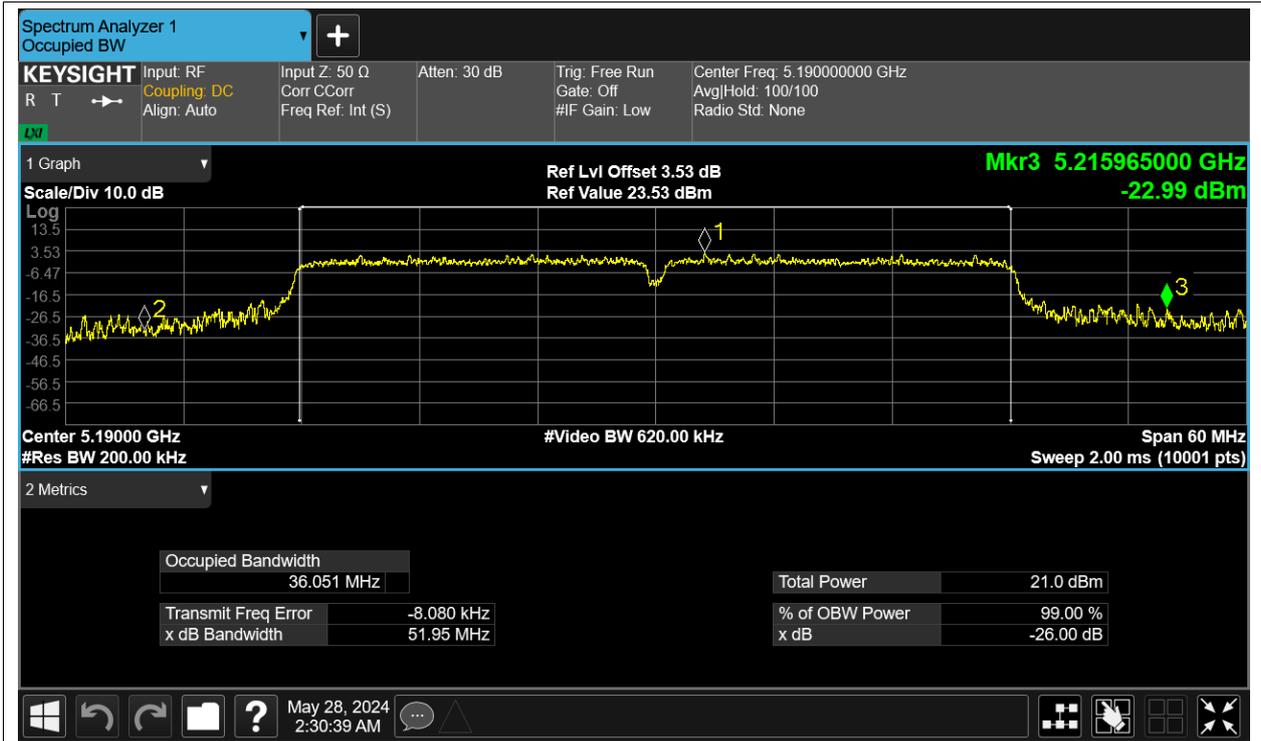
-26dB Bandwidth NVNT n20 5200MHz Ant12



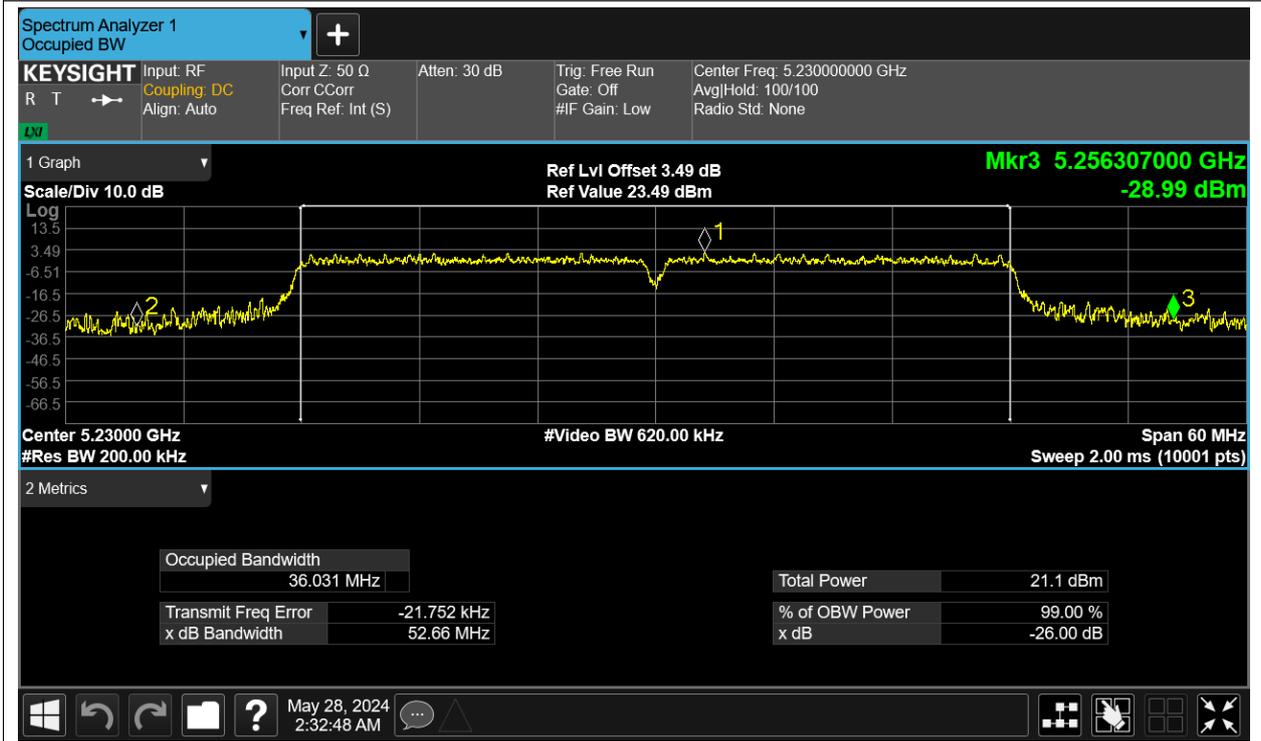
-26dB Bandwidth NVNT n20 5240MHz Ant12



-26dB Bandwidth NVNT n40 5190MHz Ant12



-26dB Bandwidth NVNT n40 5230MHz Ant12

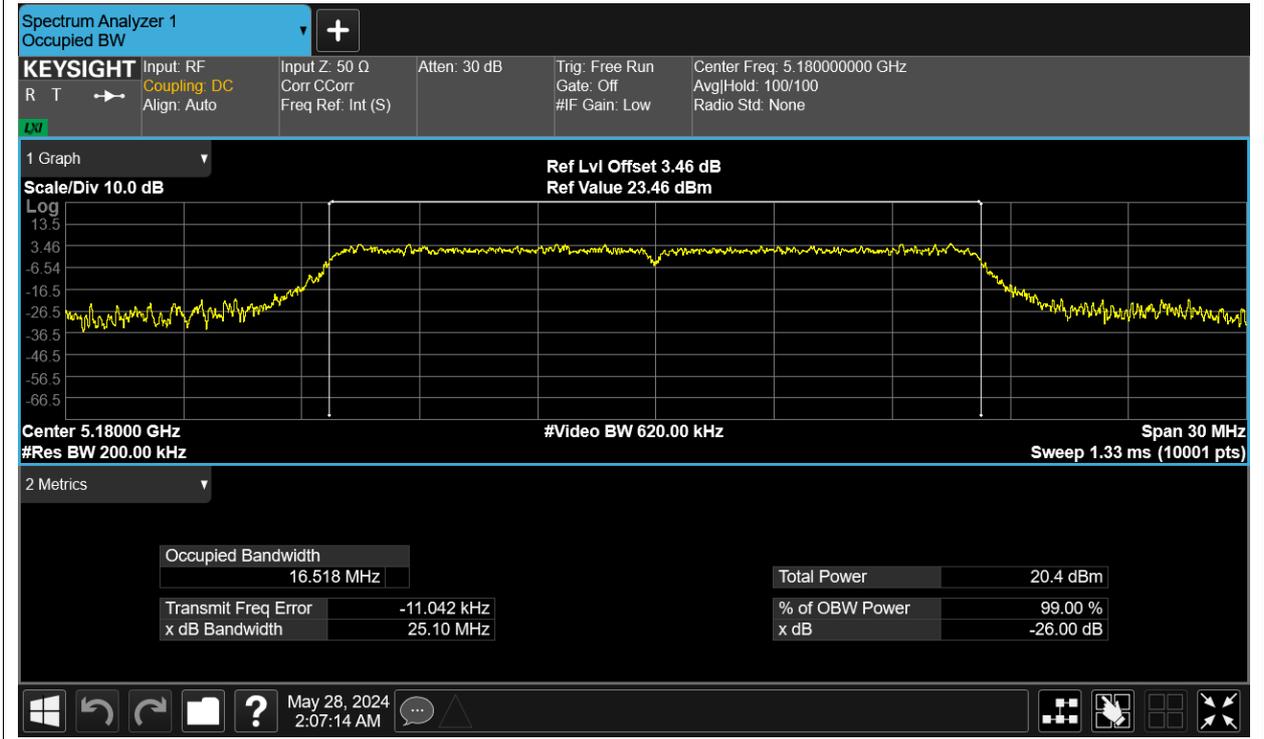


## Occupied Channel Bandwidth

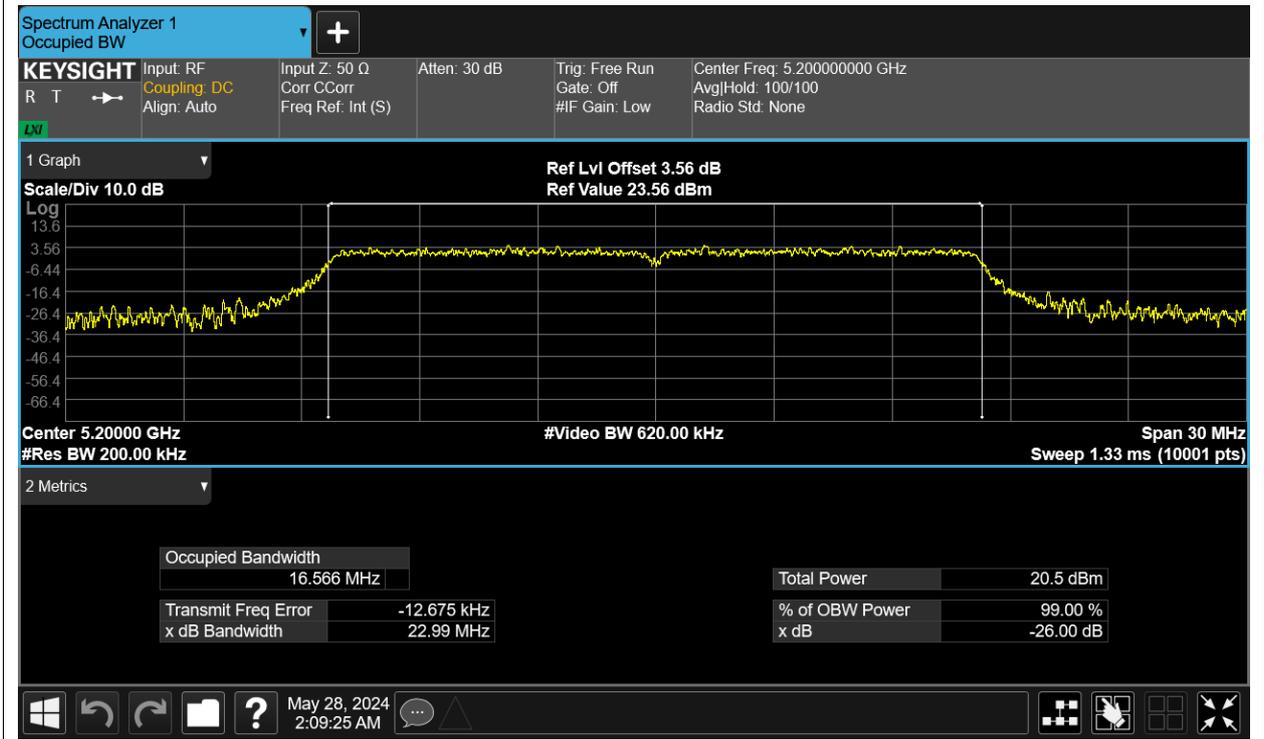
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant12	16.518
NVNT	a	5200	Ant12	16.566
NVNT	a	5240	Ant12	16.549
NVNT	ac20	5180	Ant12	17.584
NVNT	ac20	5200	Ant12	17.621
NVNT	ac20	5240	Ant12	17.617
NVNT	ac40	5190	Ant12	36.146
NVNT	ac40	5230	Ant12	36.198
NVNT	ac80	5210	Ant12	75.515
NVNT	n20	5180	Ant12	17.641
NVNT	n20	5200	Ant12	17.602
NVNT	n20	5240	Ant12	17.642
NVNT	n40	5190	Ant12	36.187
NVNT	n40	5230	Ant12	36.222

Test Graphs

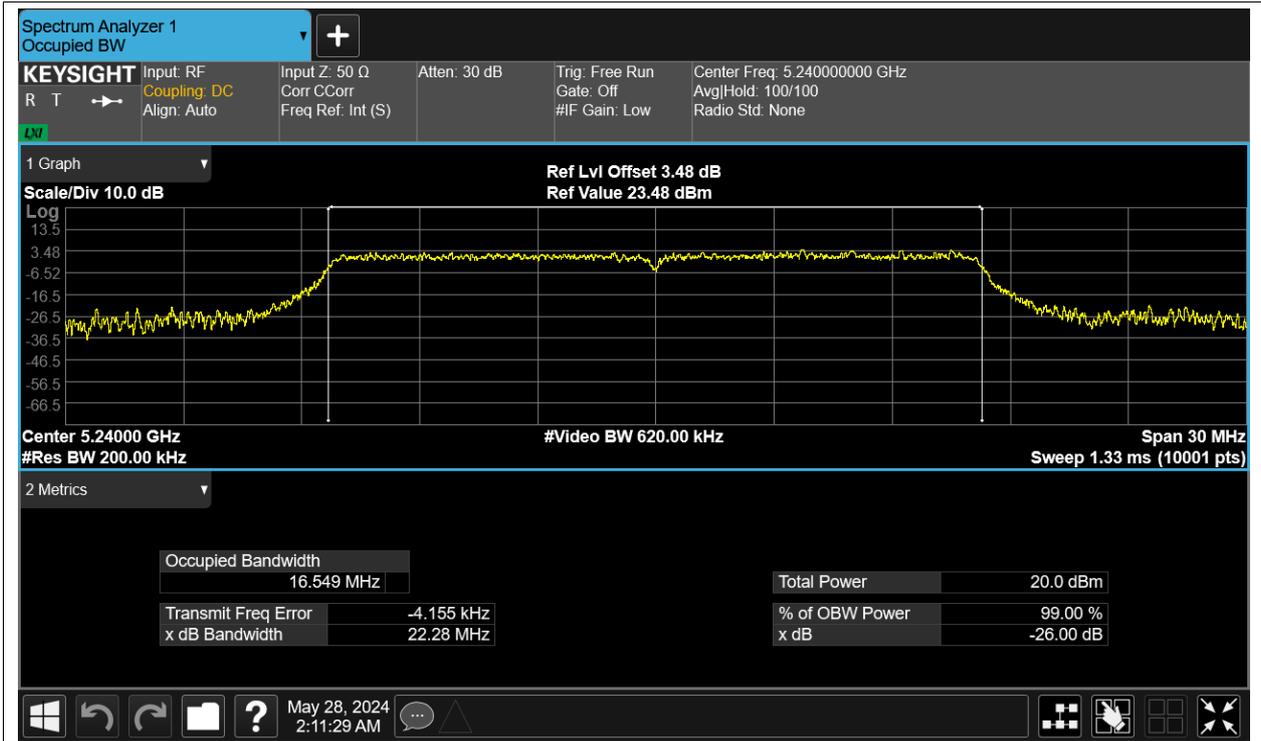
OBW NVNT a 5180MHz Ant12



OBW NVNT a 5200MHz Ant12



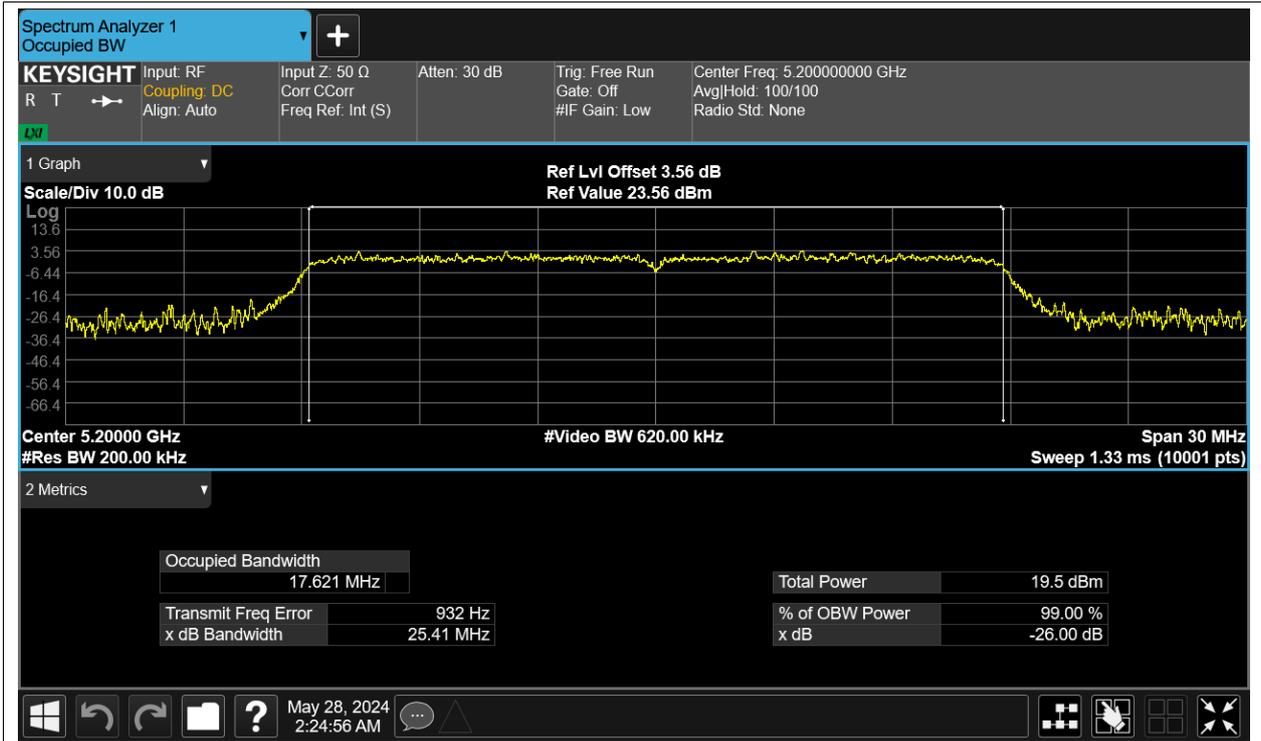
OBW NVNT a 5240MHz Ant12



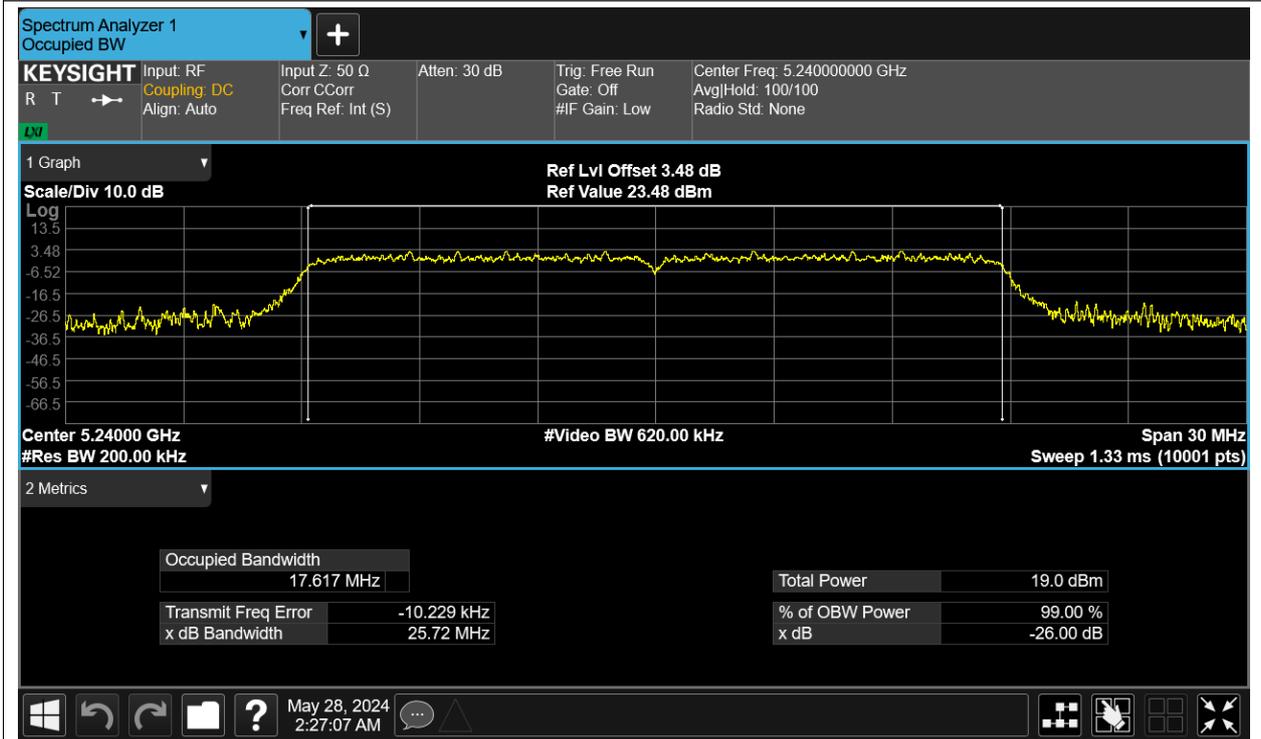
OBW NVNT ac20 5180MHz Ant12



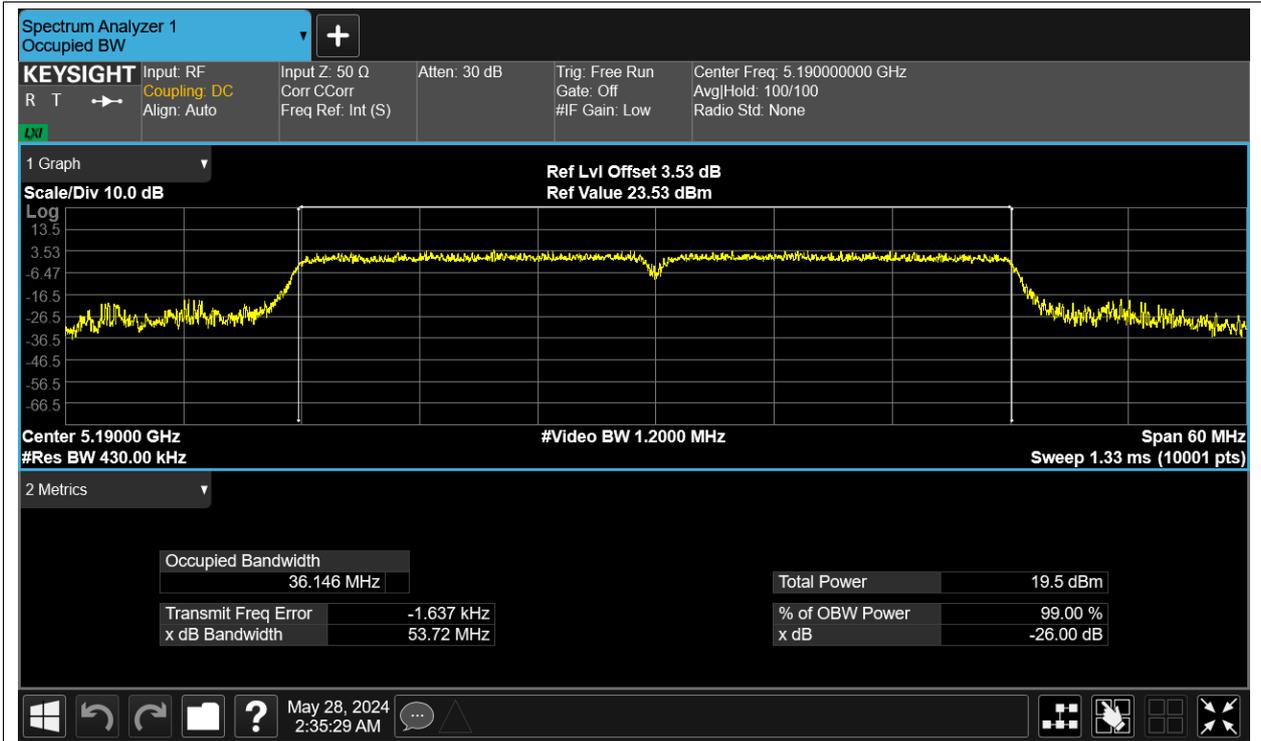
OBW NVNT ac20 5200MHz Ant12



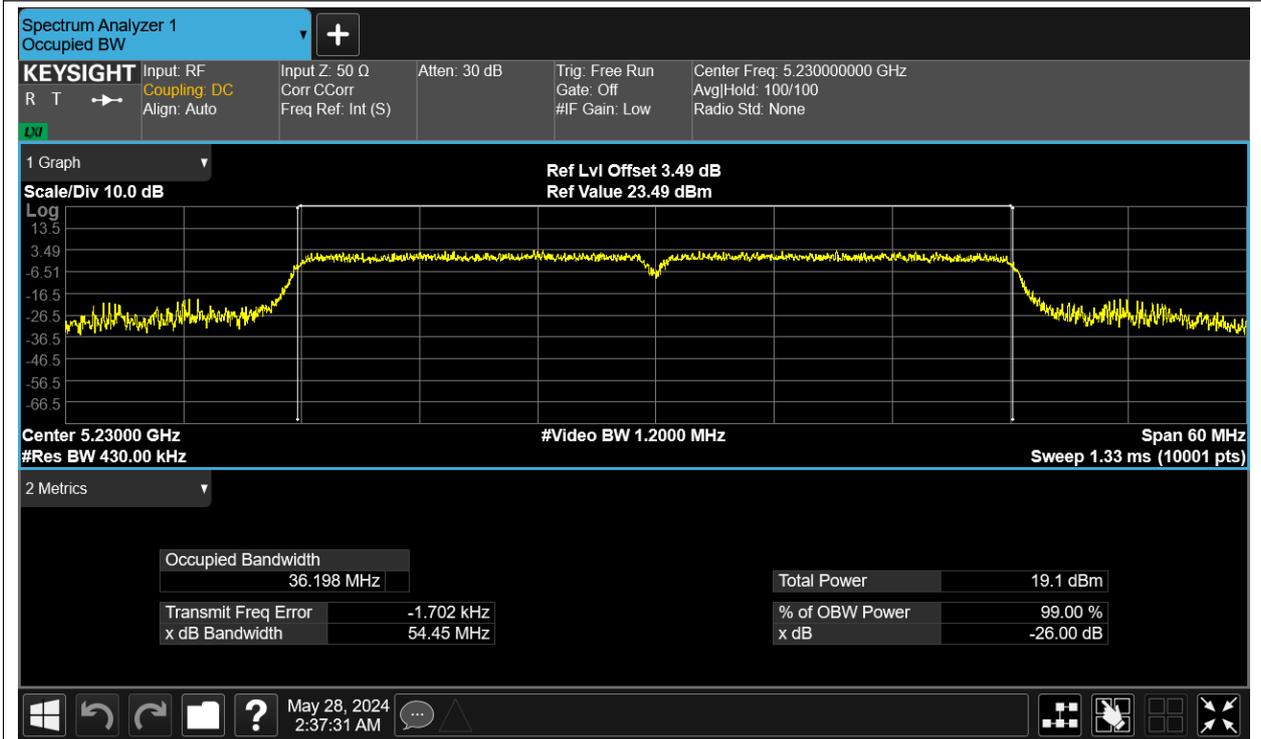
OBW NVNT ac20 5240MHz Ant12



OBW NVNT ac40 5190MHz Ant12



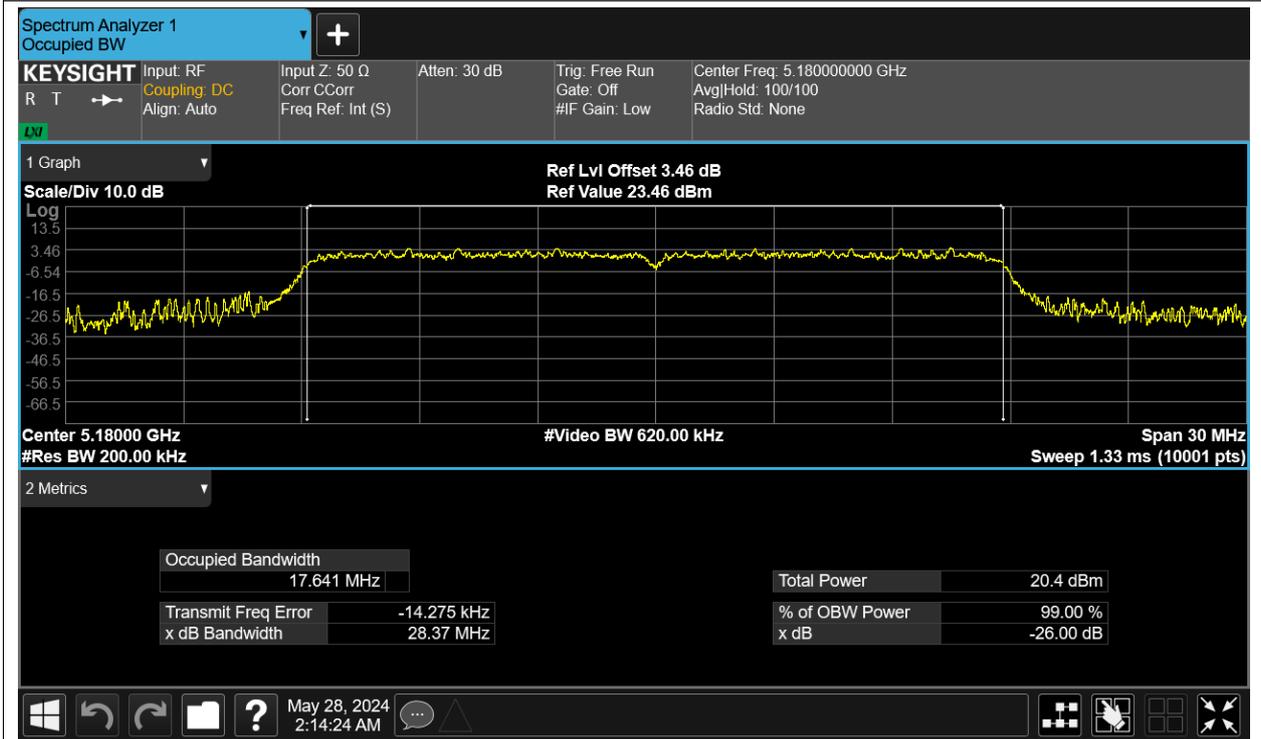
OBW NVNT ac40 5230MHz Ant12



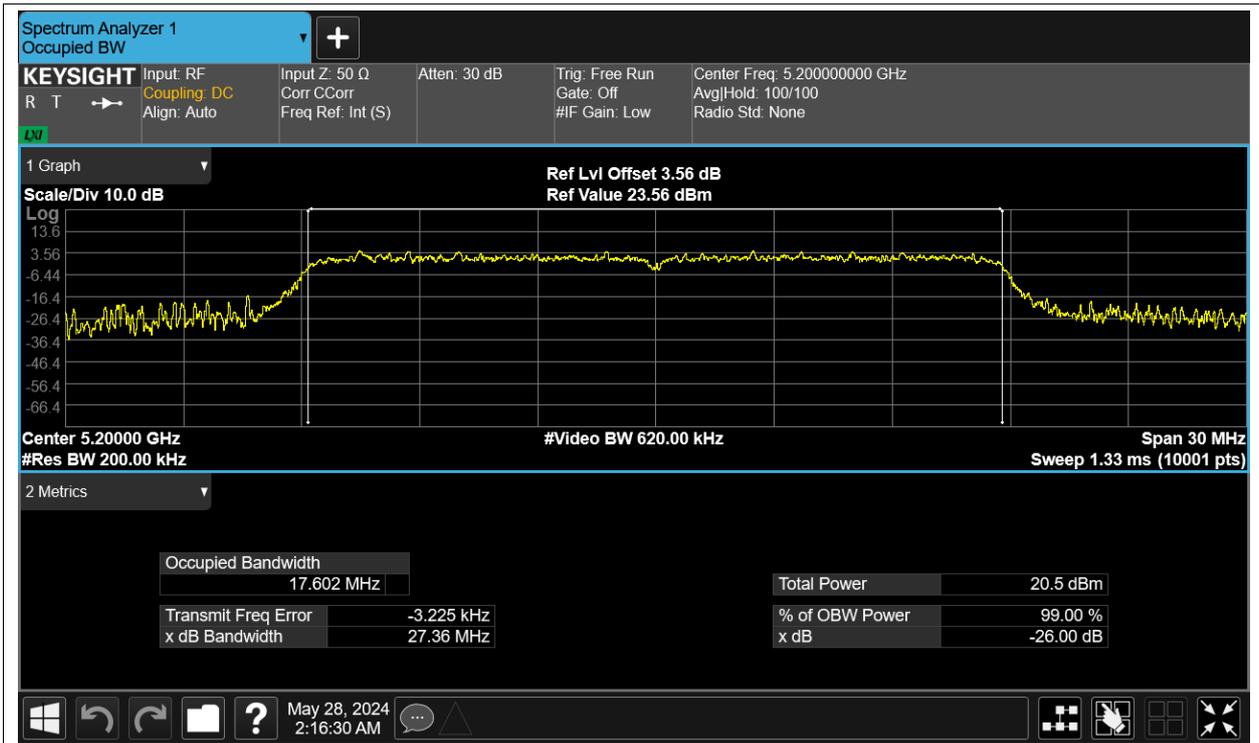
OBW NVNT ac80 5210MHz Ant12



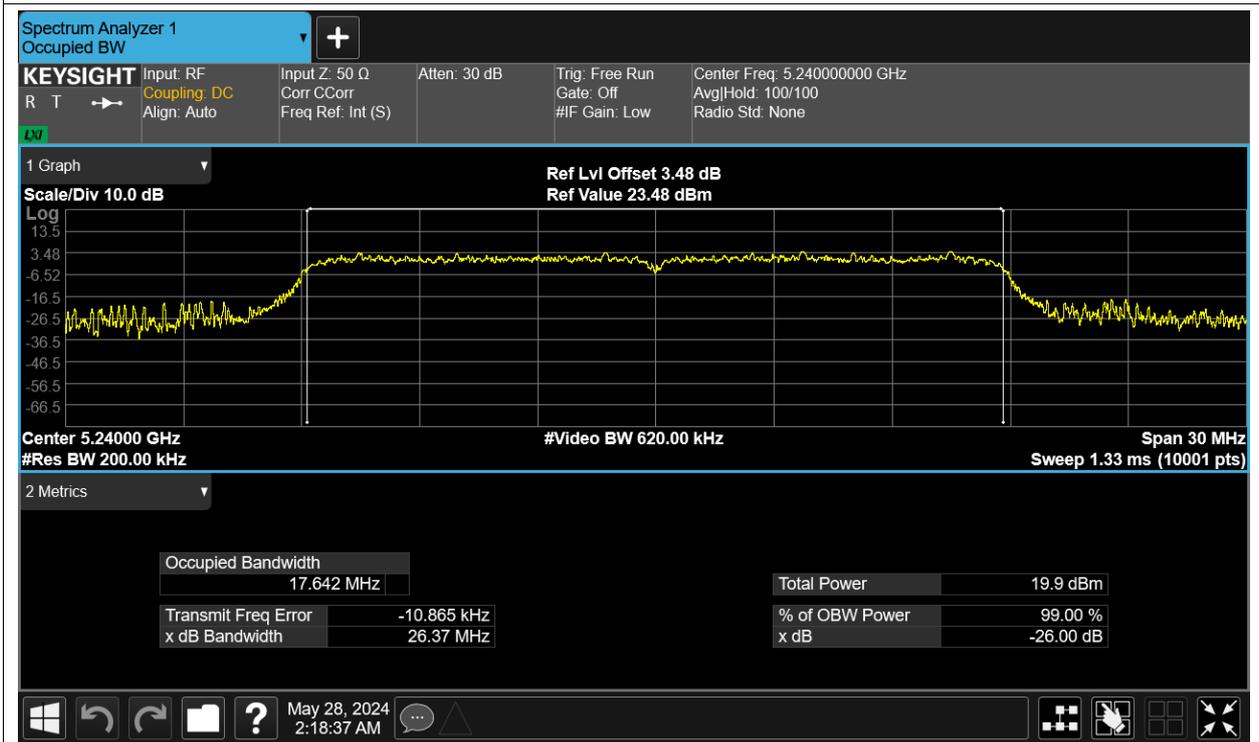
OBW NVNT n20 5180MHz Ant12



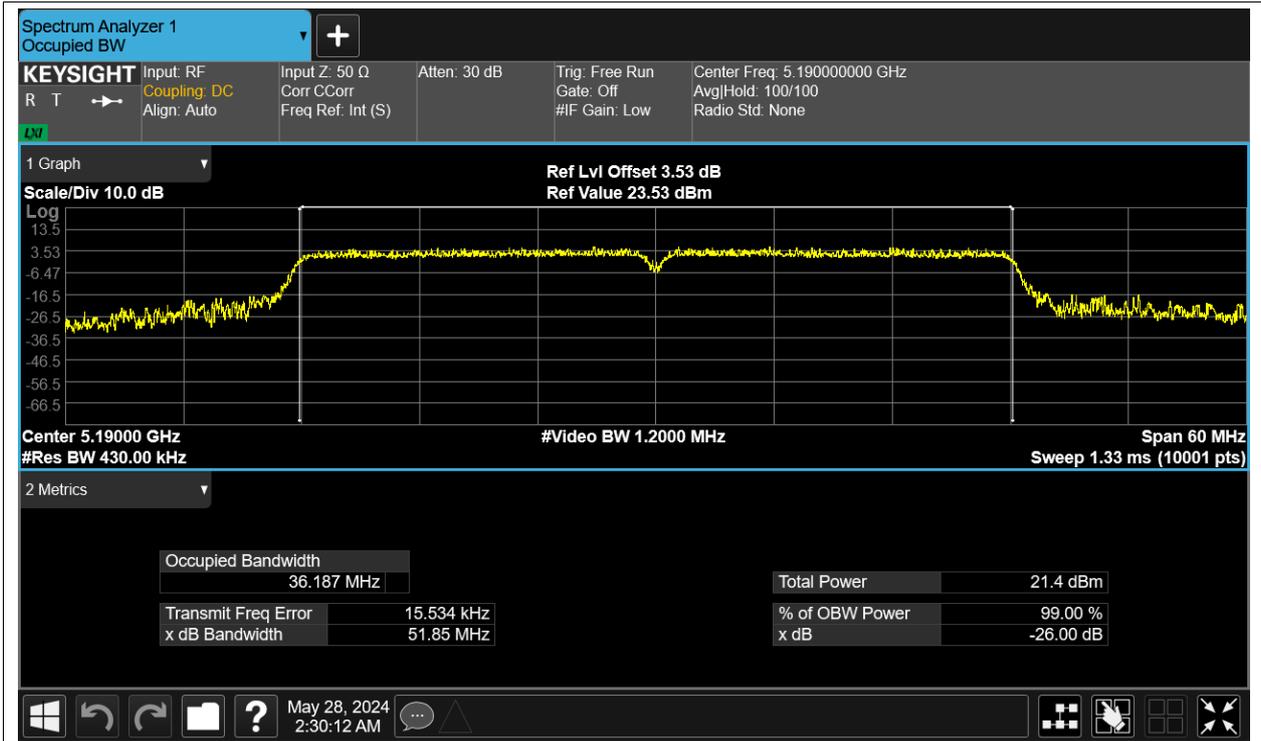
OBW NVNT n20 5200MHz Ant12



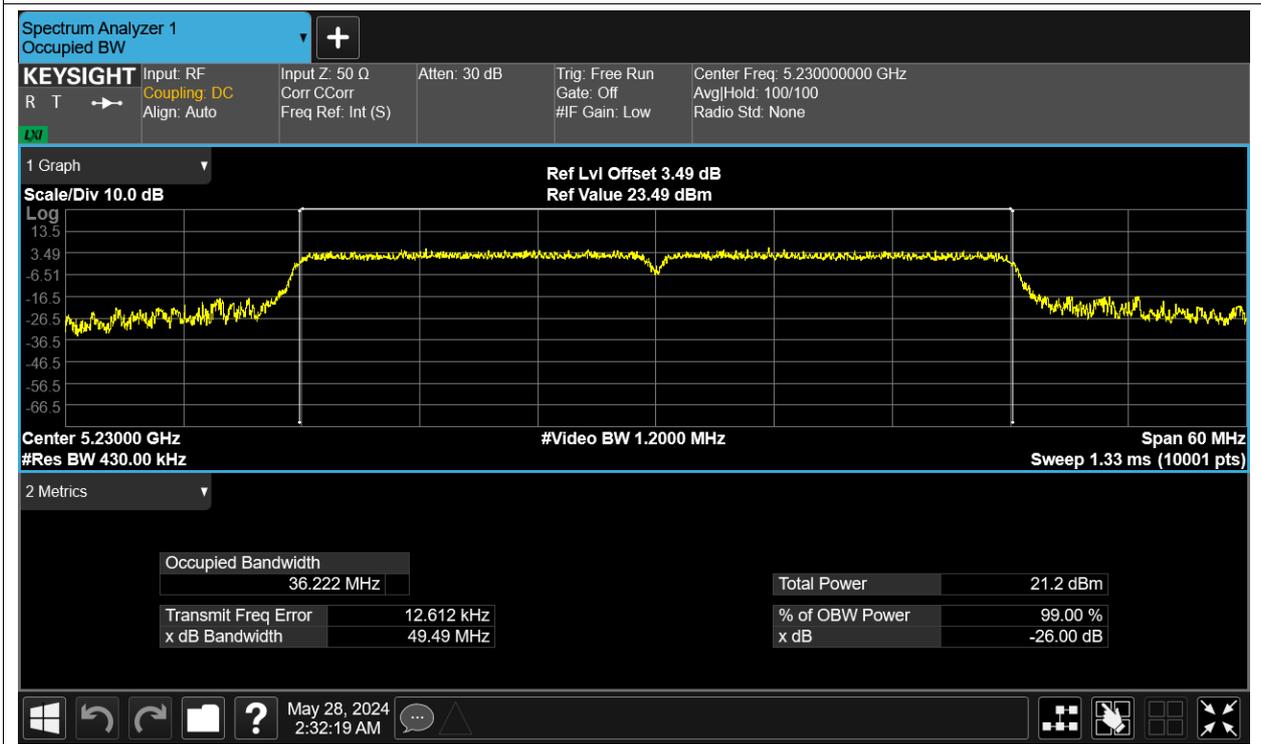
OBW NVNT n20 5240MHz Ant12



OBW NVNT n40 5190MHz Ant12



OBW NVNT n40 5230MHz Ant12

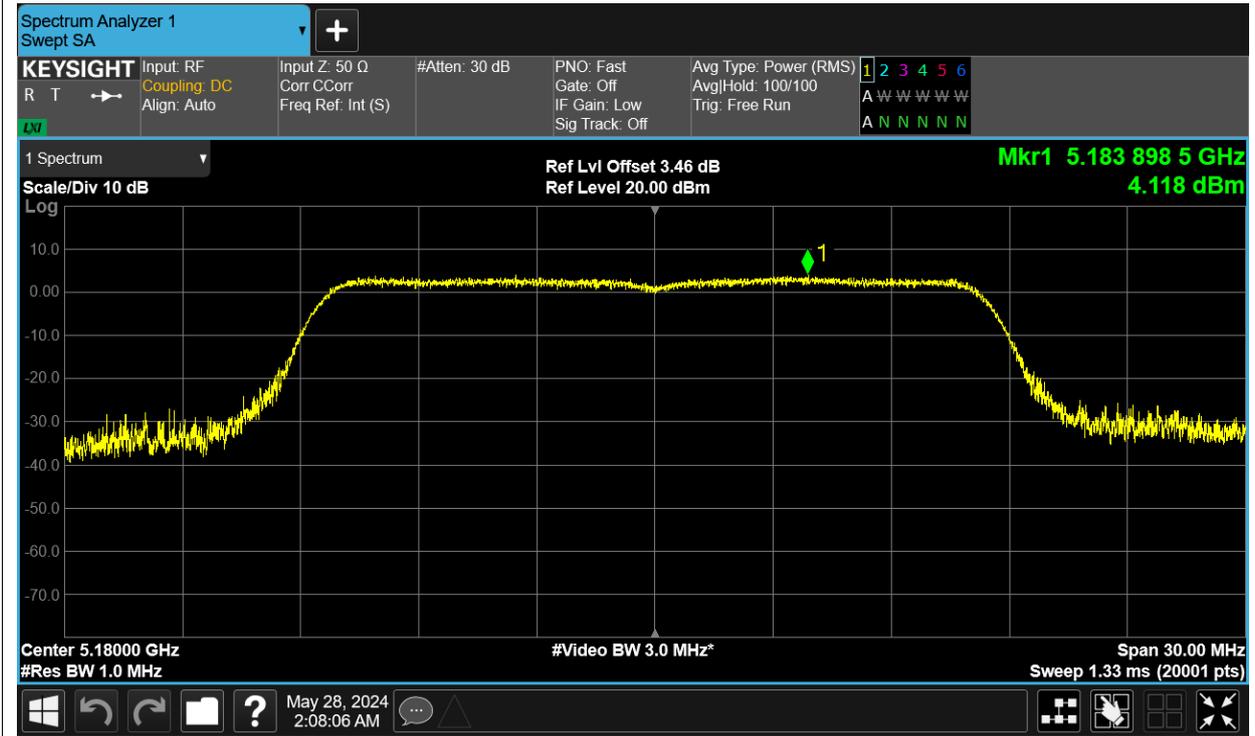


## Maximum Power Spectral Density Level

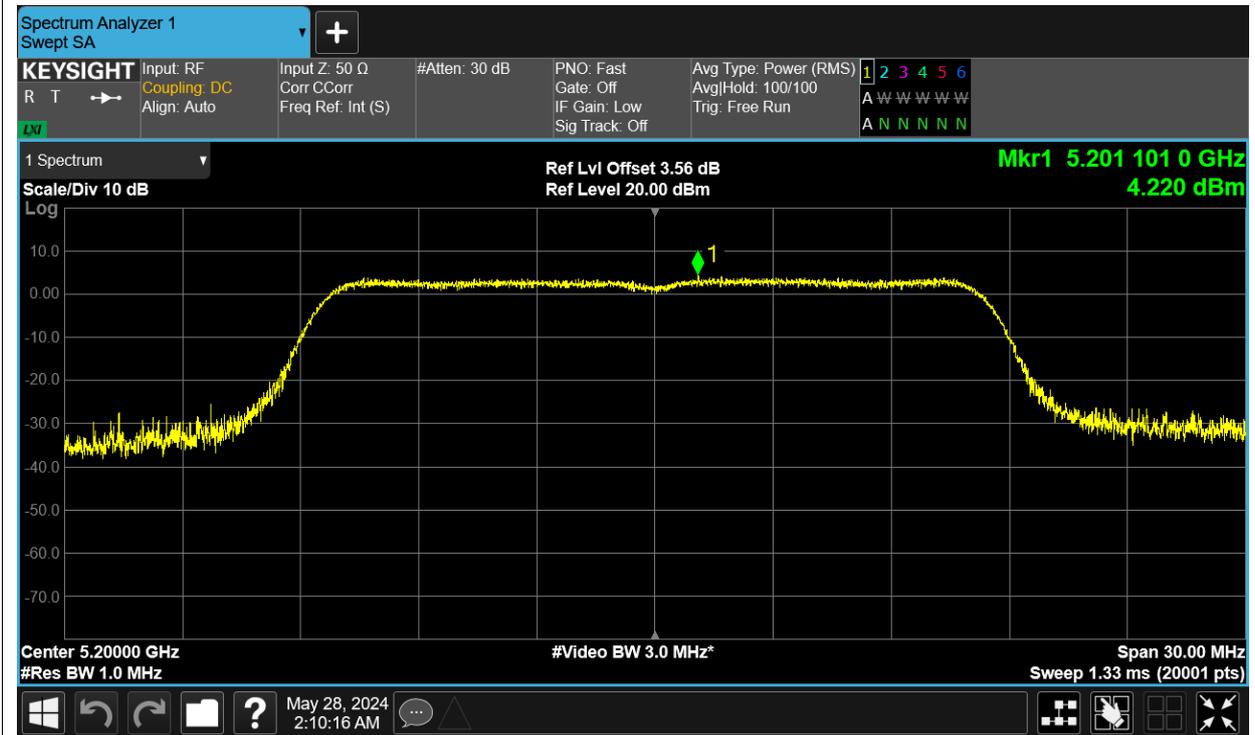
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant12	4.118	11	Pass
NVNT	a	5200	Ant12	4.22	11	Pass
NVNT	a	5240	Ant12	3.594	11	Pass
NVNT	ac20	5180	Ant12	2.763	11	Pass
NVNT	ac20	5200	Ant12	2.964	11	Pass
NVNT	ac20	5240	Ant12	2.393	11	Pass
NVNT	ac40	5190	Ant12	-0.869	11	Pass
NVNT	ac40	5230	Ant12	-0.901	11	Pass
NVNT	ac80	5210	Ant12	-5.643	11	Pass
NVNT	n20	5180	Ant12	3.573	11	Pass
NVNT	n20	5200	Ant12	3.97	11	Pass
NVNT	n20	5240	Ant12	3.651	11	Pass
NVNT	n40	5190	Ant12	1.263	11	Pass
NVNT	n40	5230	Ant12	1.077	11	Pass

Test Graphs

PSD NVNT a 5180MHz Ant12



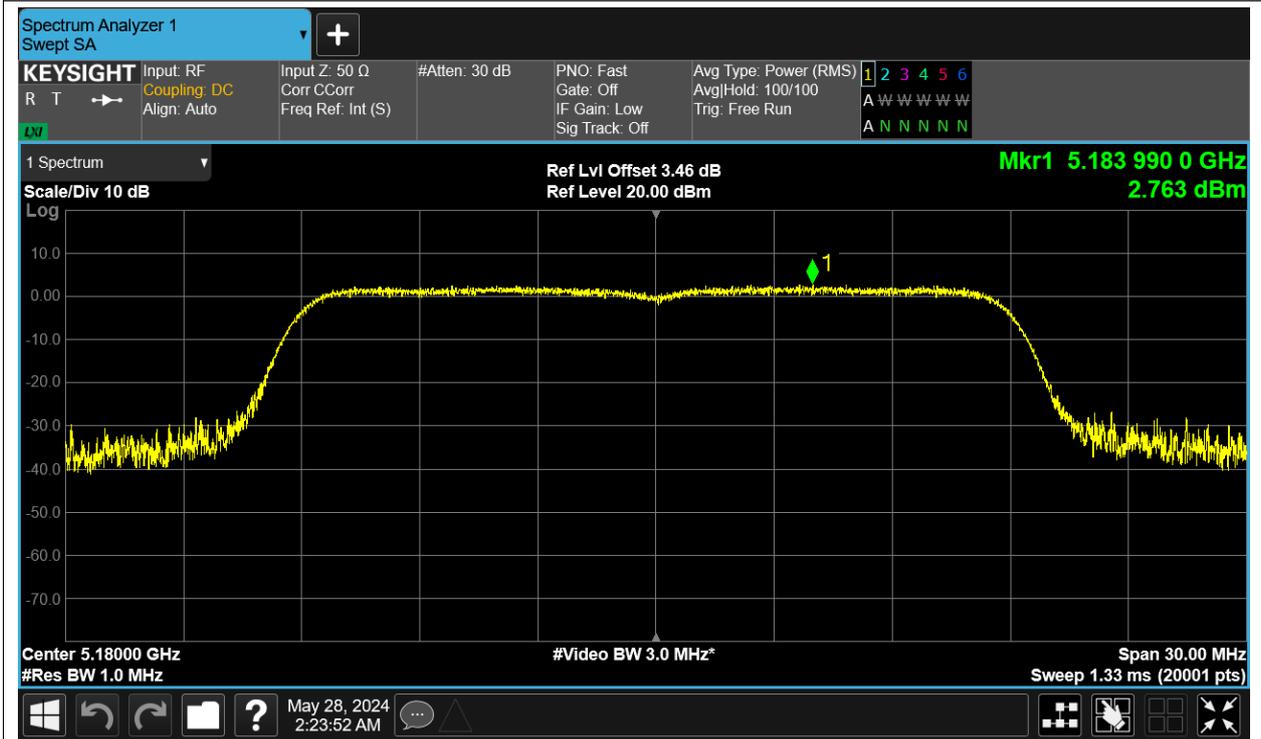
PSD NVNT a 5200MHz Ant12



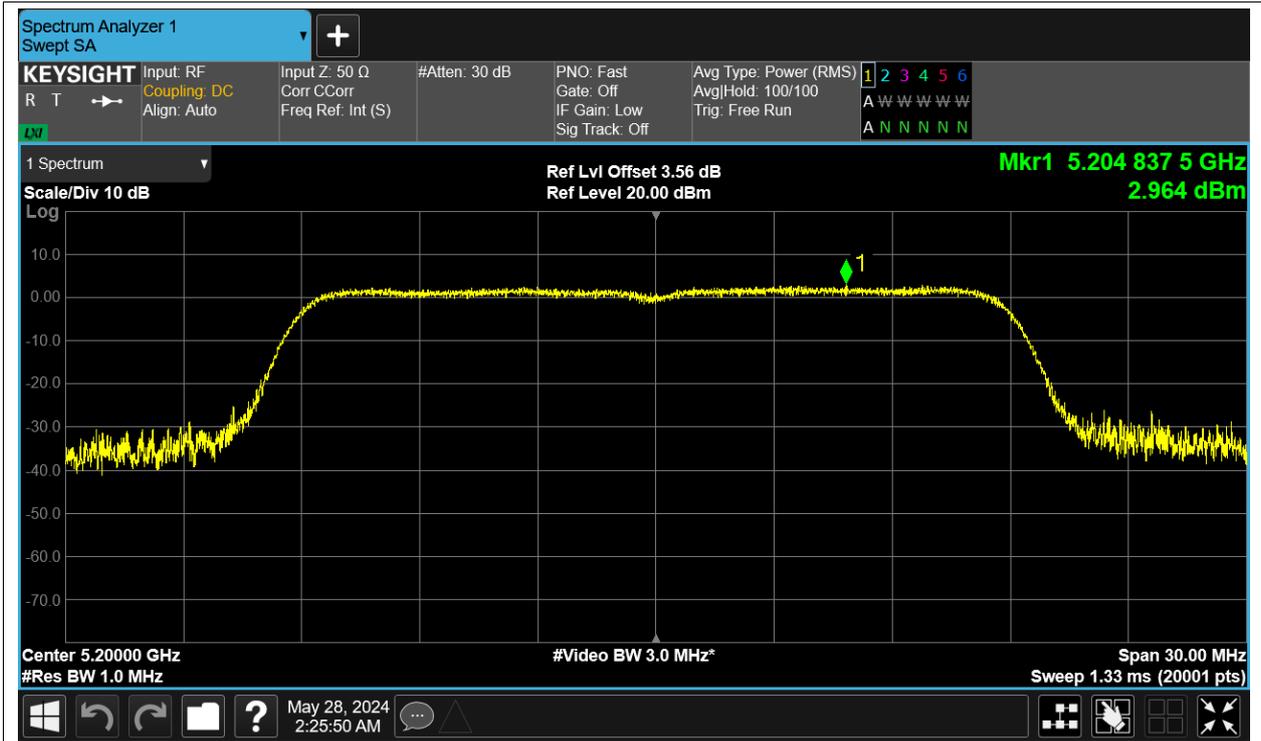
PSD NVNT a 5240MHz Ant12



PSD NVNT ac20 5180MHz Ant12



PSD NVNT ac20 5200MHz Ant12



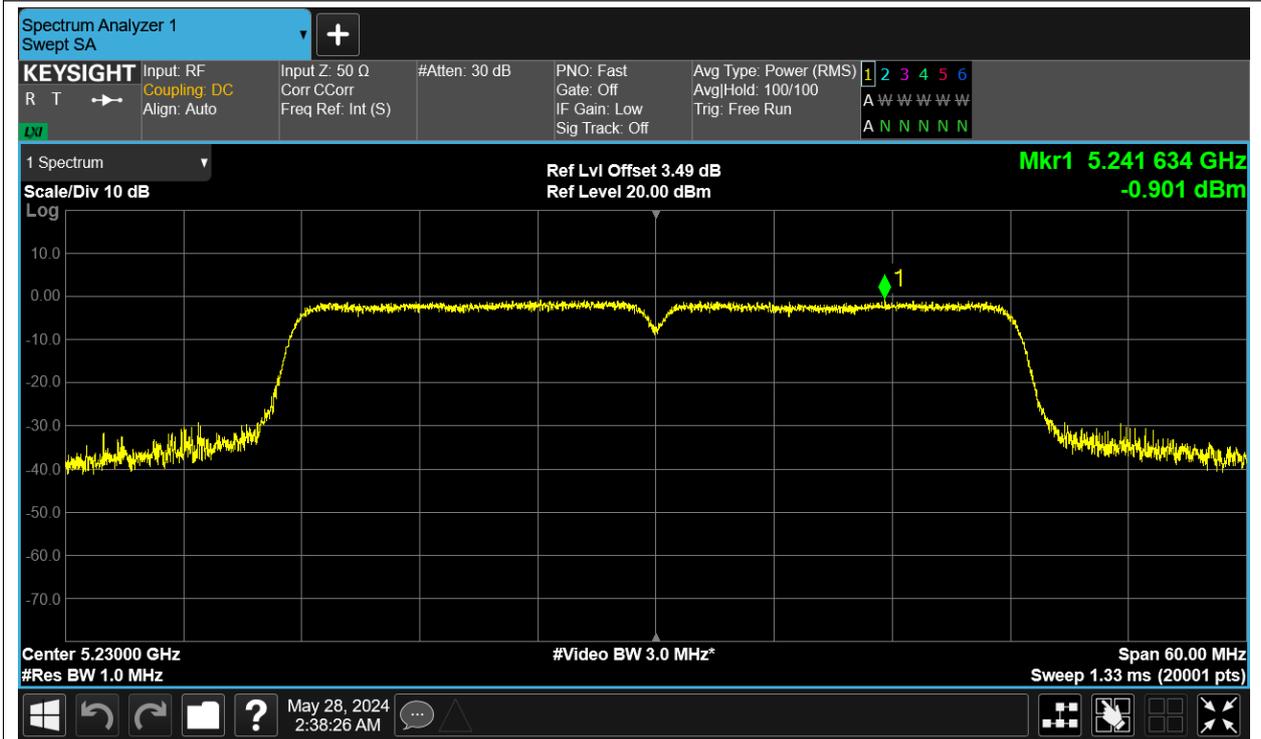
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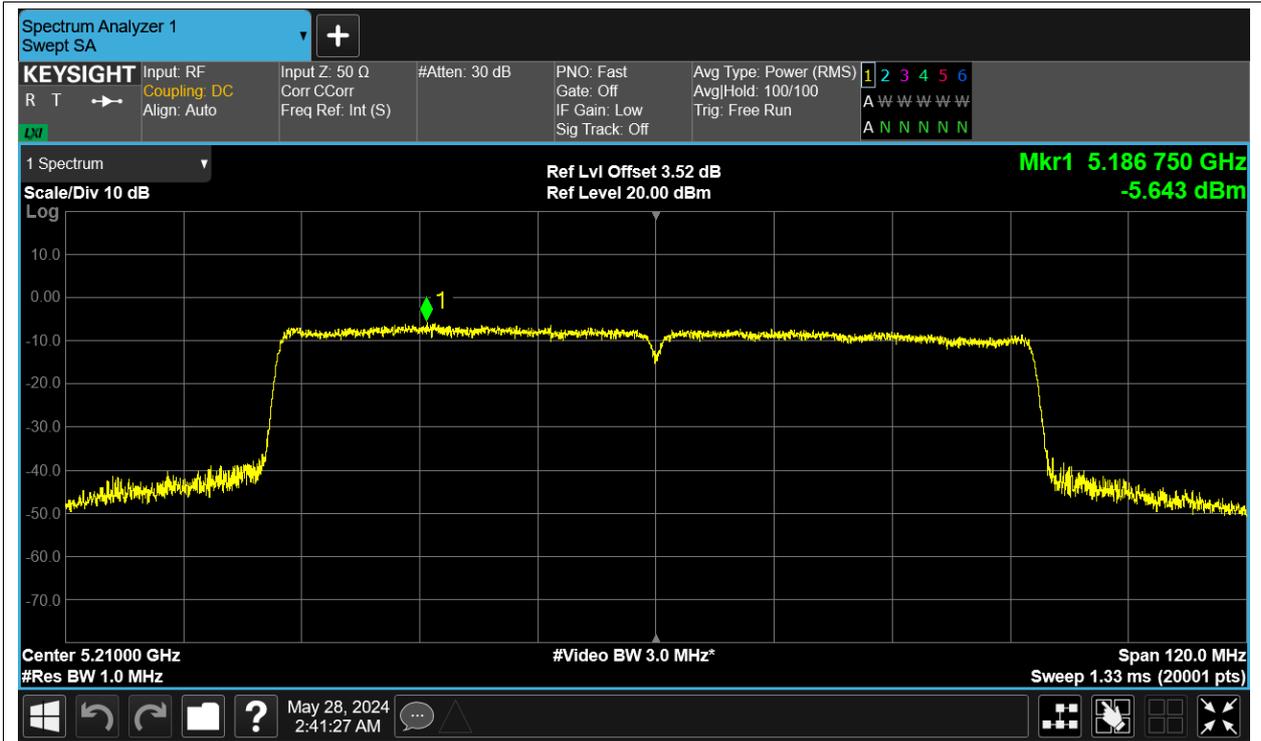
PSD NVNT ac40 5190MHz Ant12



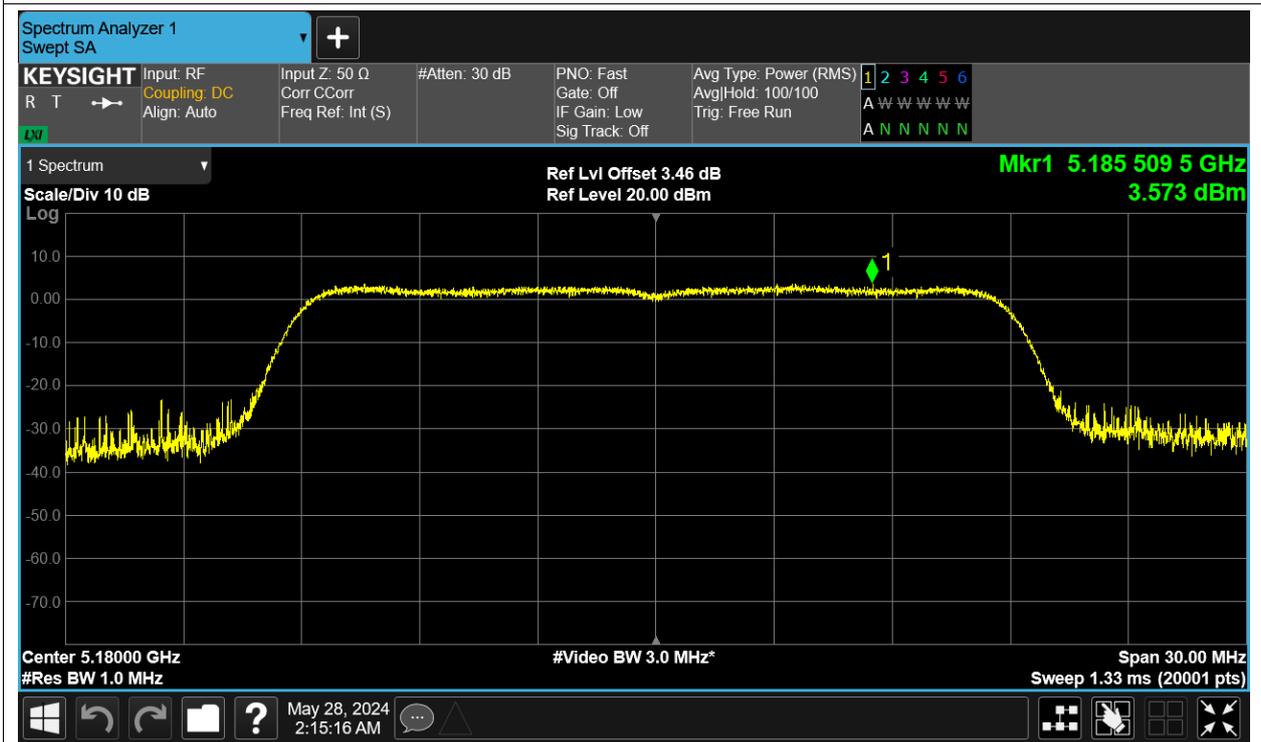
PSD NVNT ac40 5230MHz Ant12



PSD NVNT ac80 5210MHz Ant12



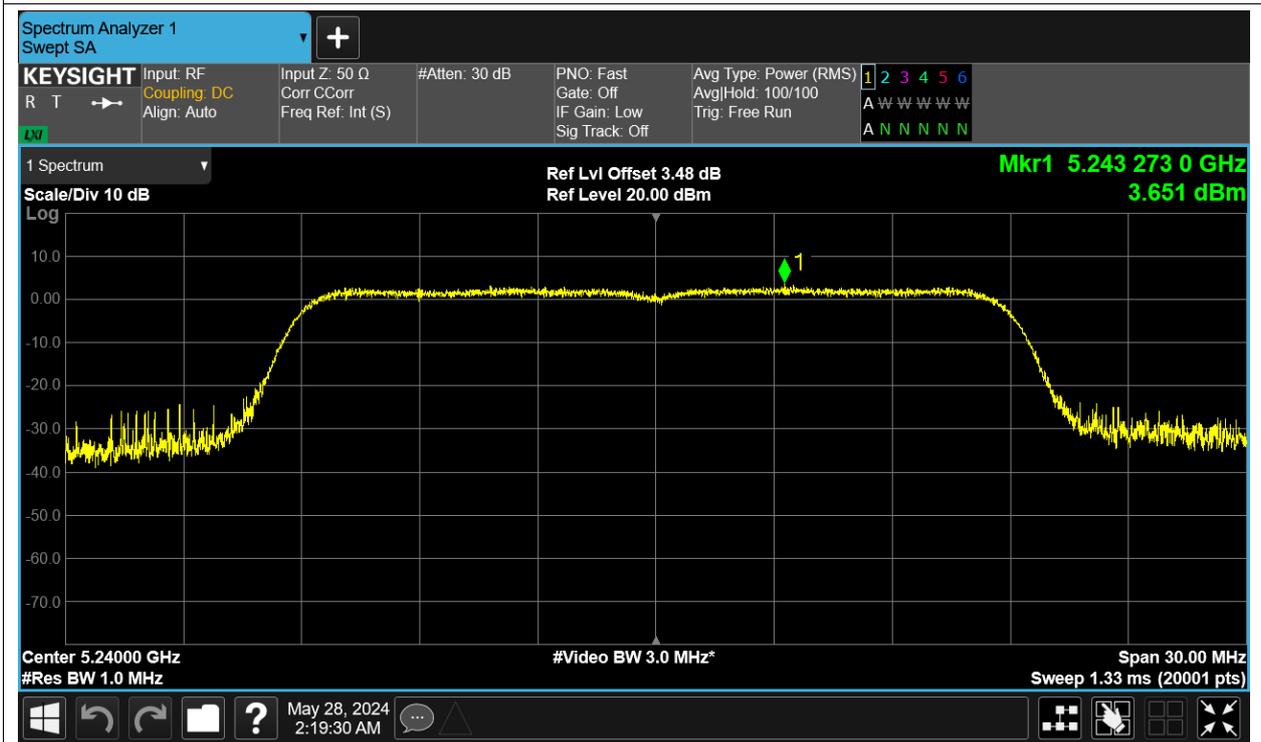
PSD NVNT n20 5180MHz Ant12



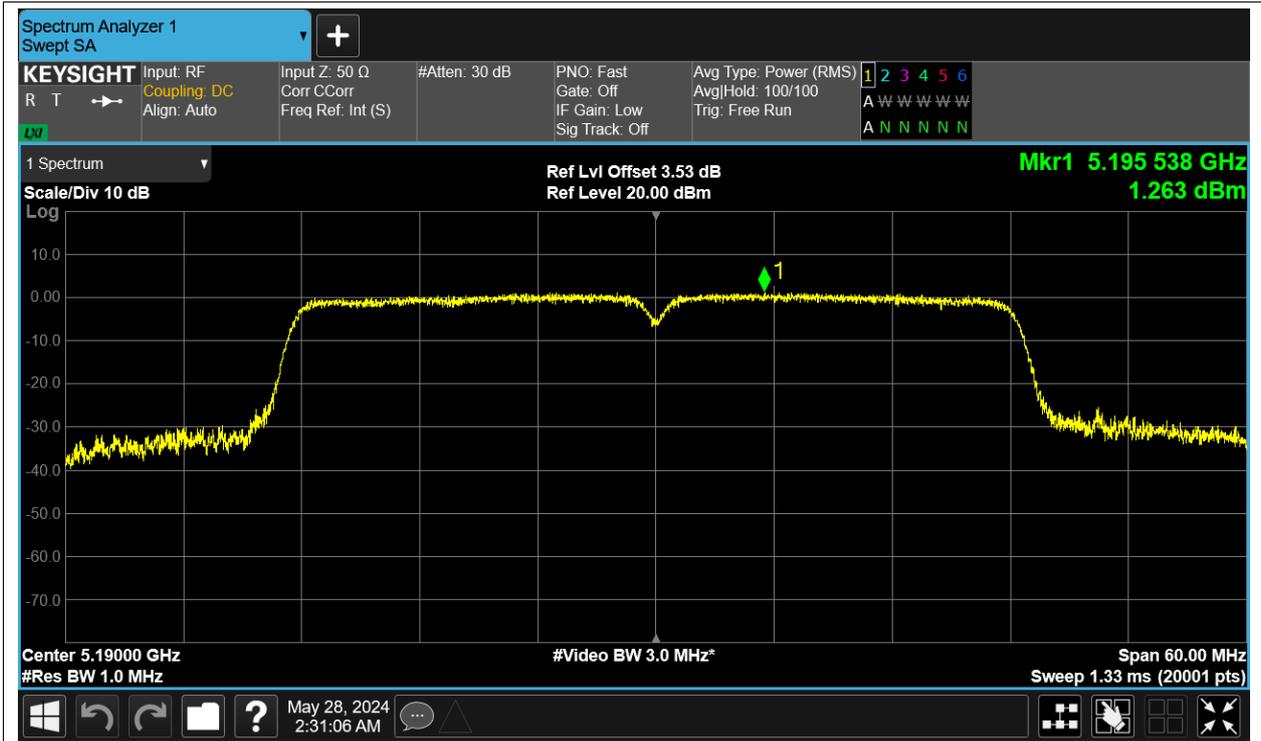
PSD NVNT n20 5200MHz Ant12



PSD NVNT n20 5240MHz Ant12



PSD NVNT n40 5190MHz Ant12



PSD NVNT n40 5230MHz Ant12

