

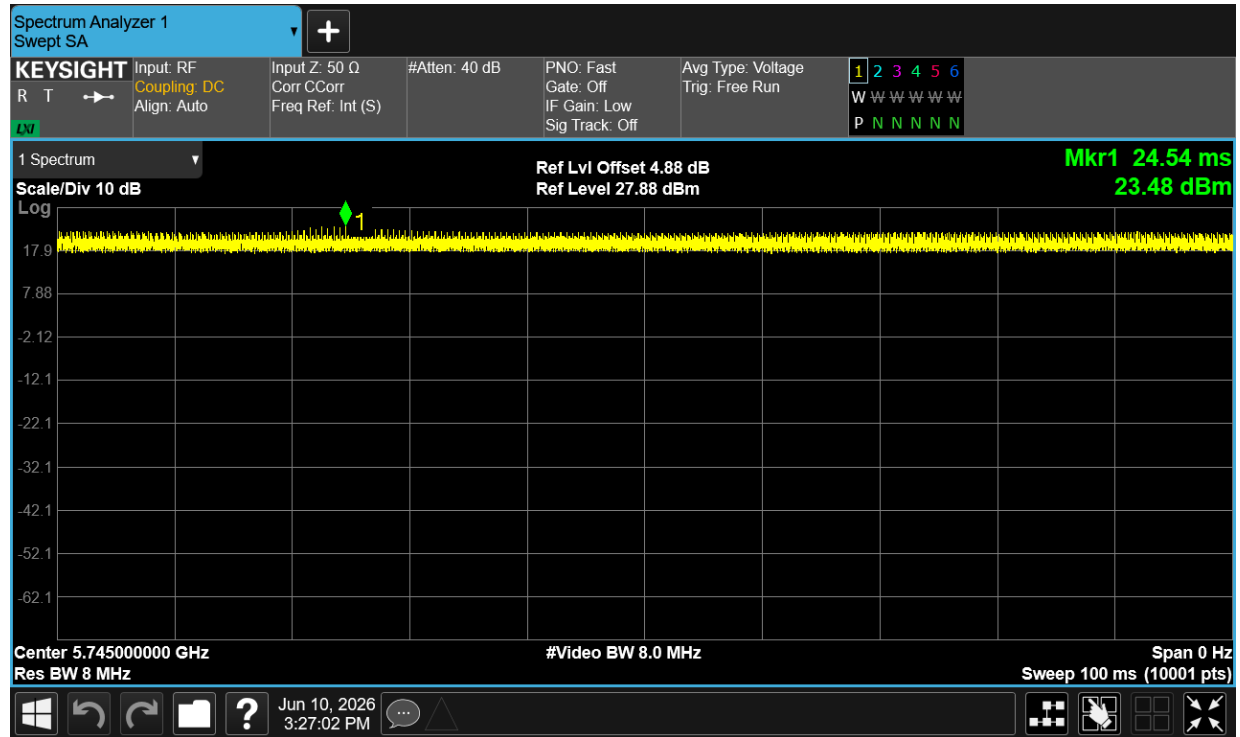
Test Data

Duty Cycle

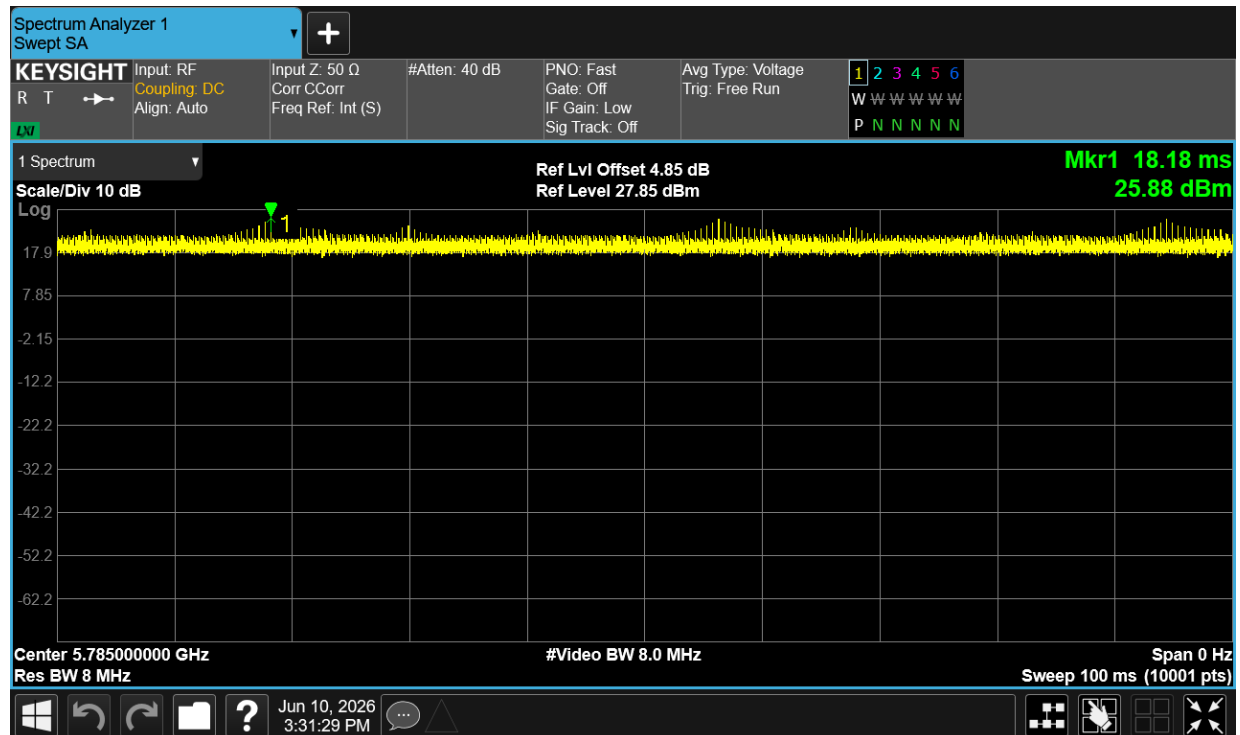
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	100	0
NVNT	a	5785	Ant1	100	0
NVNT	a	5825	Ant1	100	0
NVNT	a	5745	Ant2	100	0
NVNT	a	5785	Ant2	100	0
NVNT	a	5825	Ant2	100	0
NVNT	ac20	5745	Sum	100	0
NVNT	ac20	5785	Sum	100	0
NVNT	ac20	5825	Sum	100	0
NVNT	ac40	5755	Sum	100	0
NVNT	ac40	5795	Sum	100	0
NVNT	ac80	5775	Sum	100	0
NVNT	n20	5745	Sum	100	0
NVNT	n20	5785	Sum	100	0
NVNT	n20	5825	Sum	100	0
NVNT	n40	5755	Sum	100	0
NVNT	n40	5795	Sum	100	0

Test Graphs

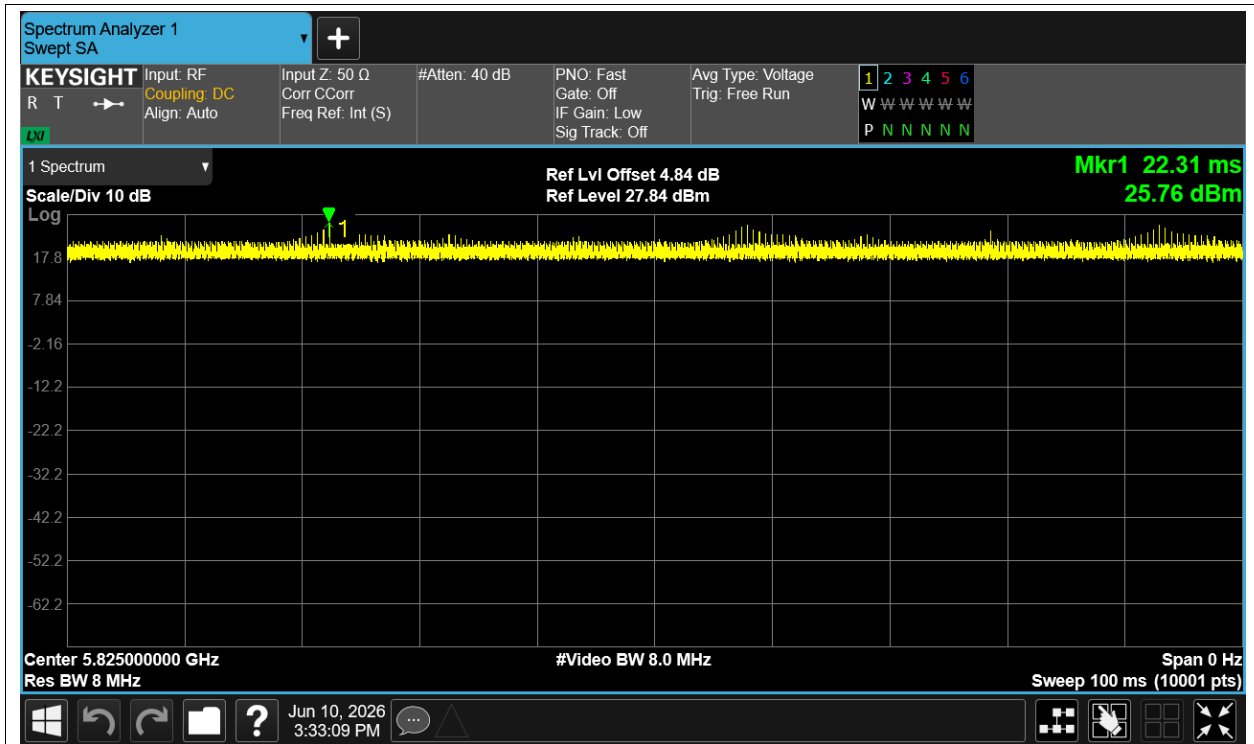
Duty Cycle NVNT a 5745MHz Ant1



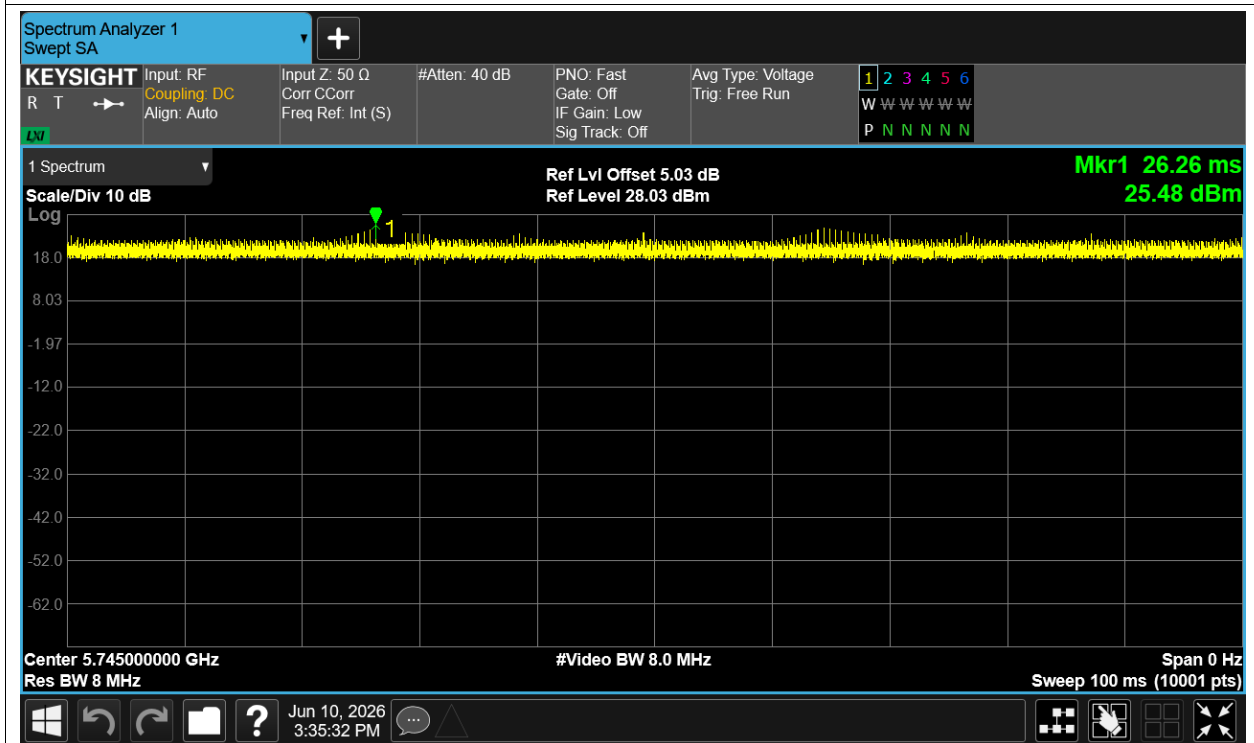
Duty Cycle NVNT a 5785MHz Ant1



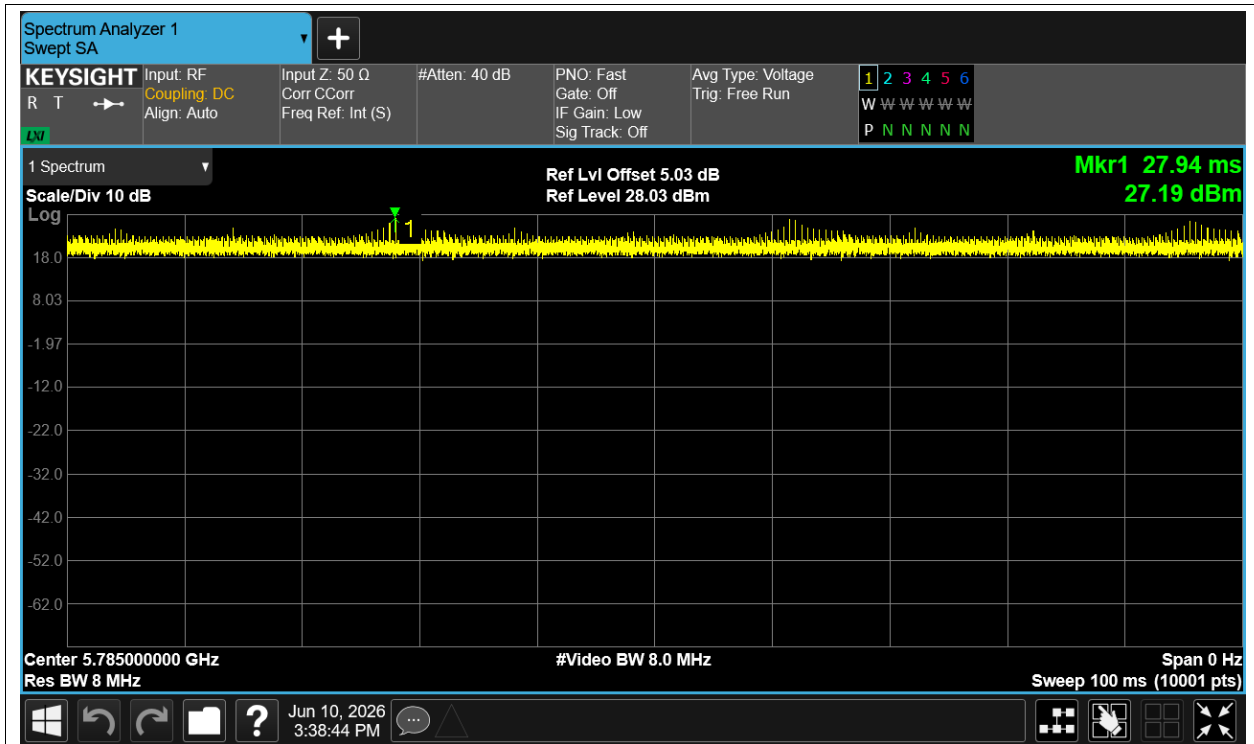
Duty Cycle NVNT a 5825MHz Ant1



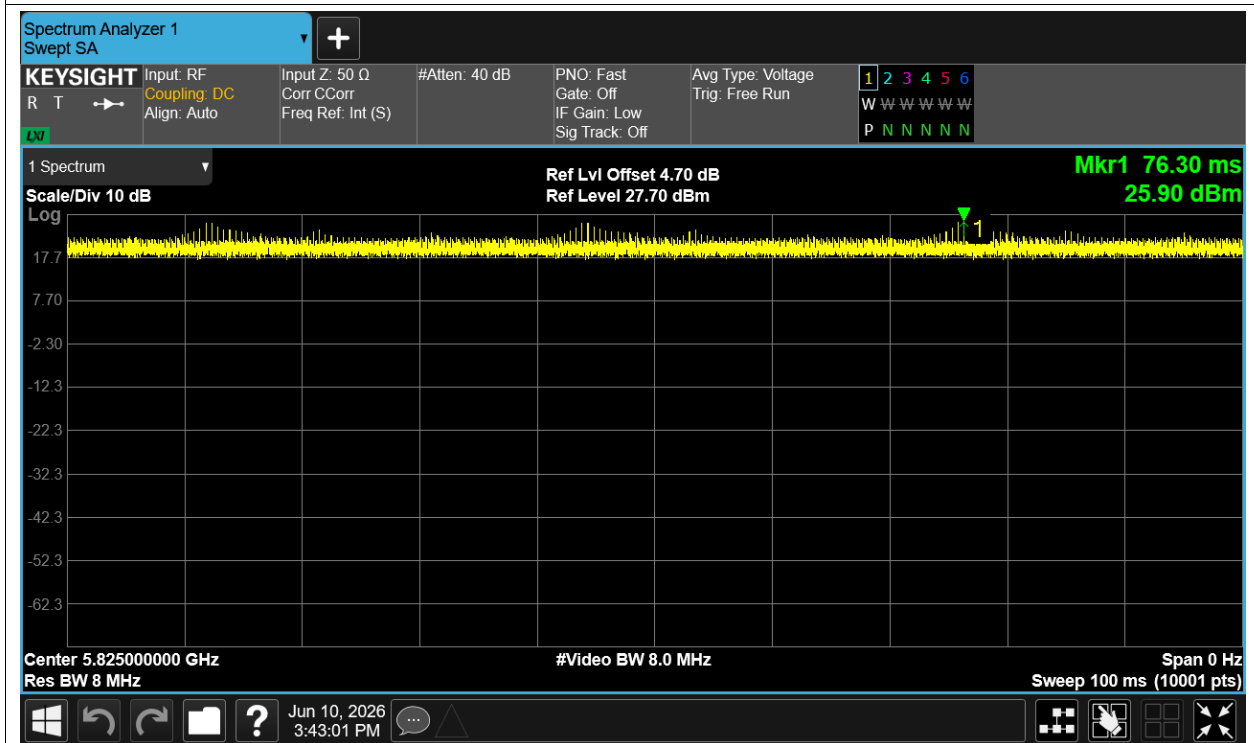
Duty Cycle NVNT a 5745MHz Ant2



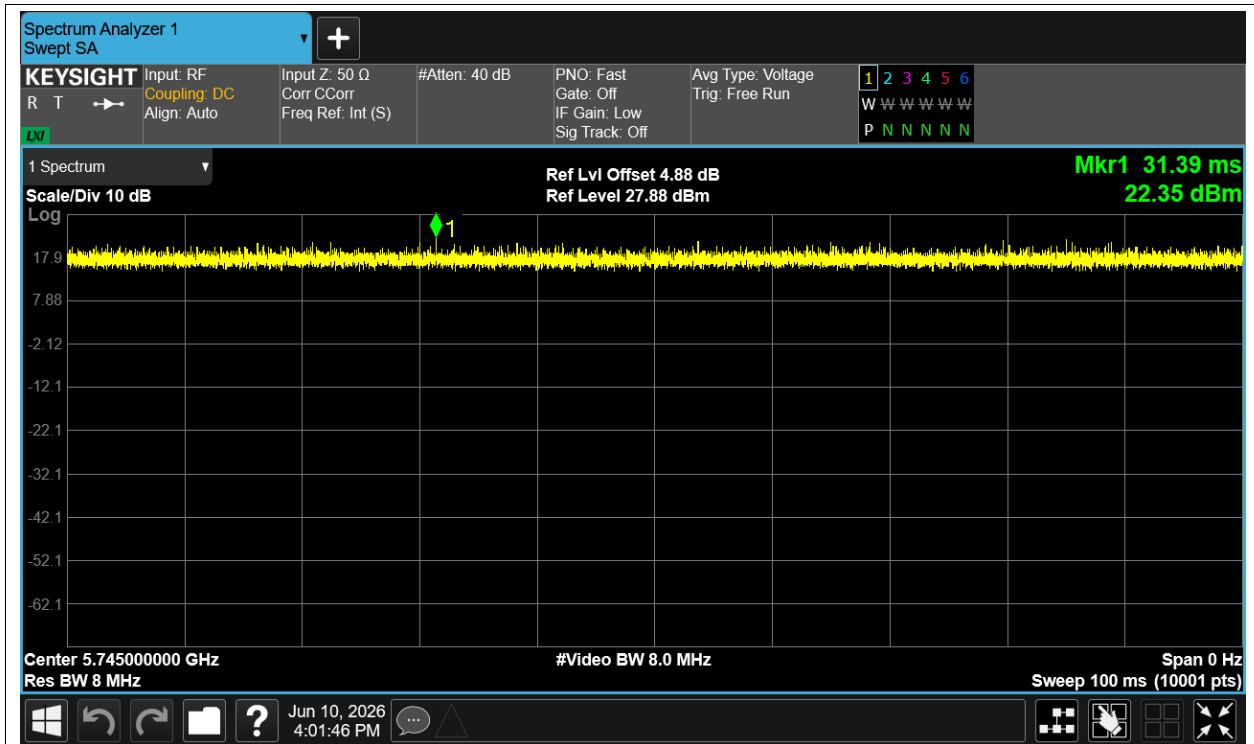
Duty Cycle NVNT a 5785MHz Ant2



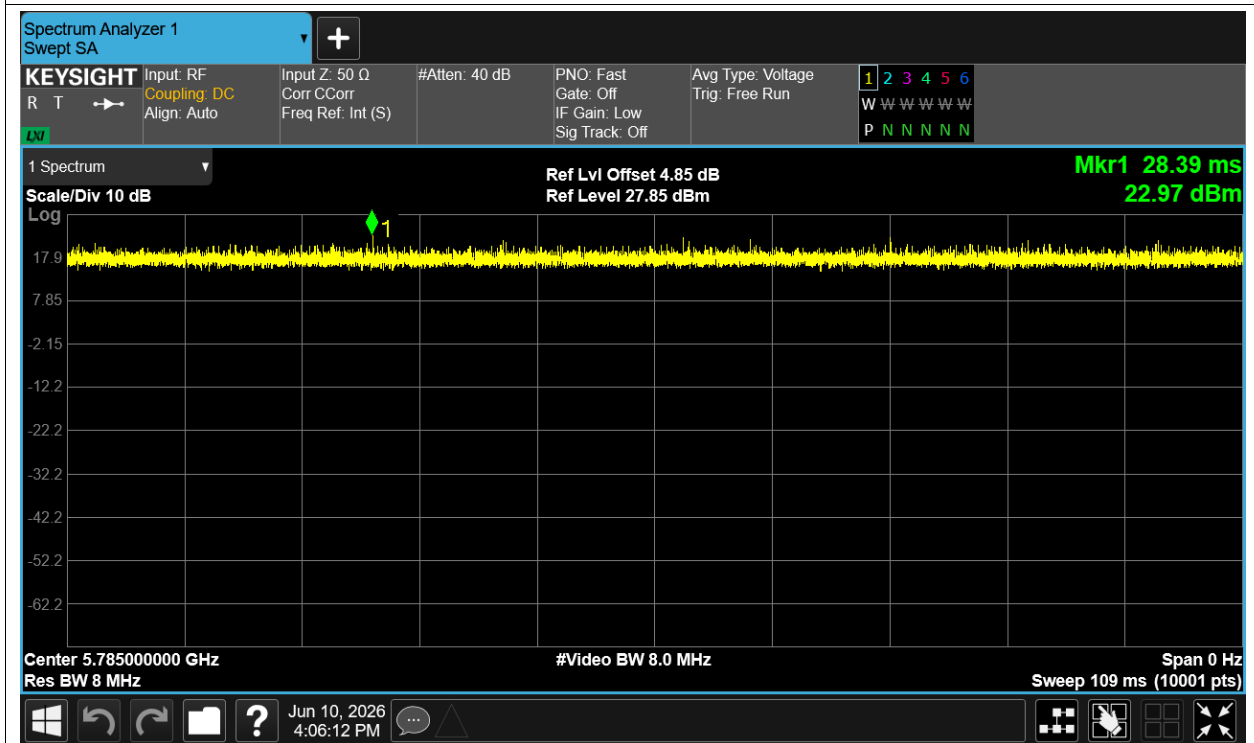
Duty Cycle NVNT a 5825MHz Ant2



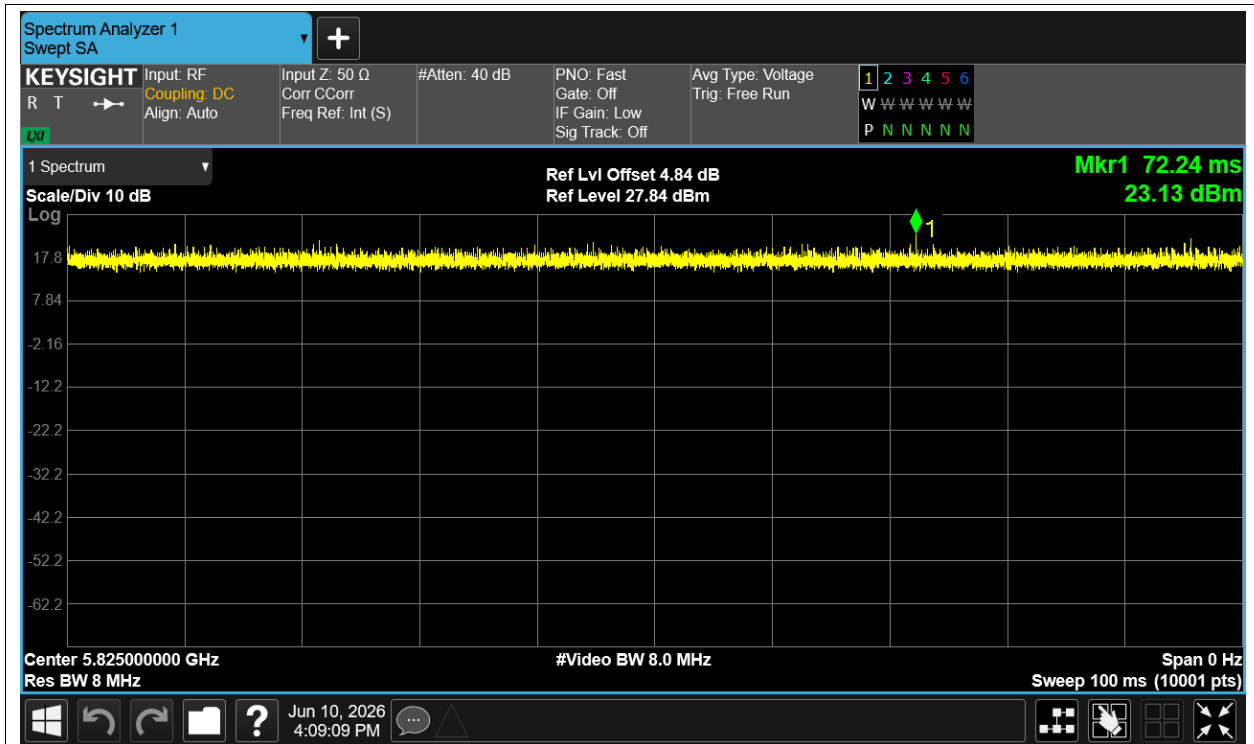
Duty Cycle NVNT ac20 5745MHz Sum



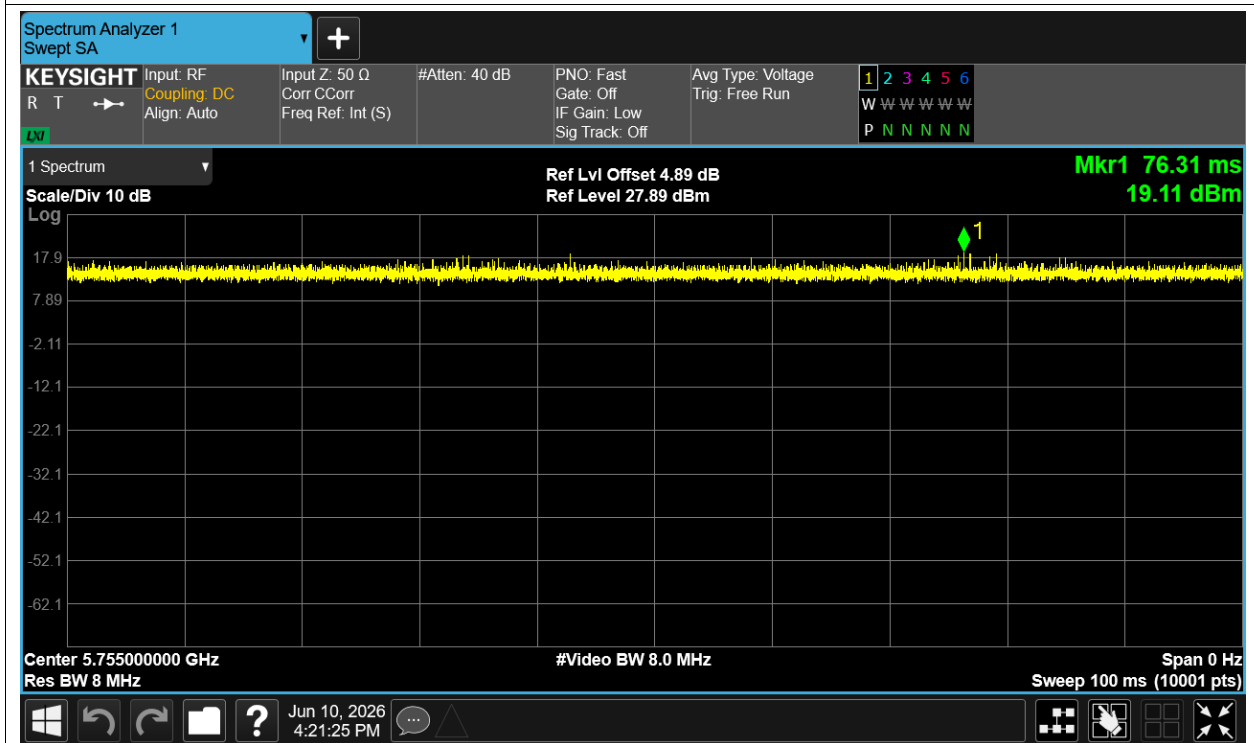
Duty Cycle NVNT ac20 5785MHz Sum



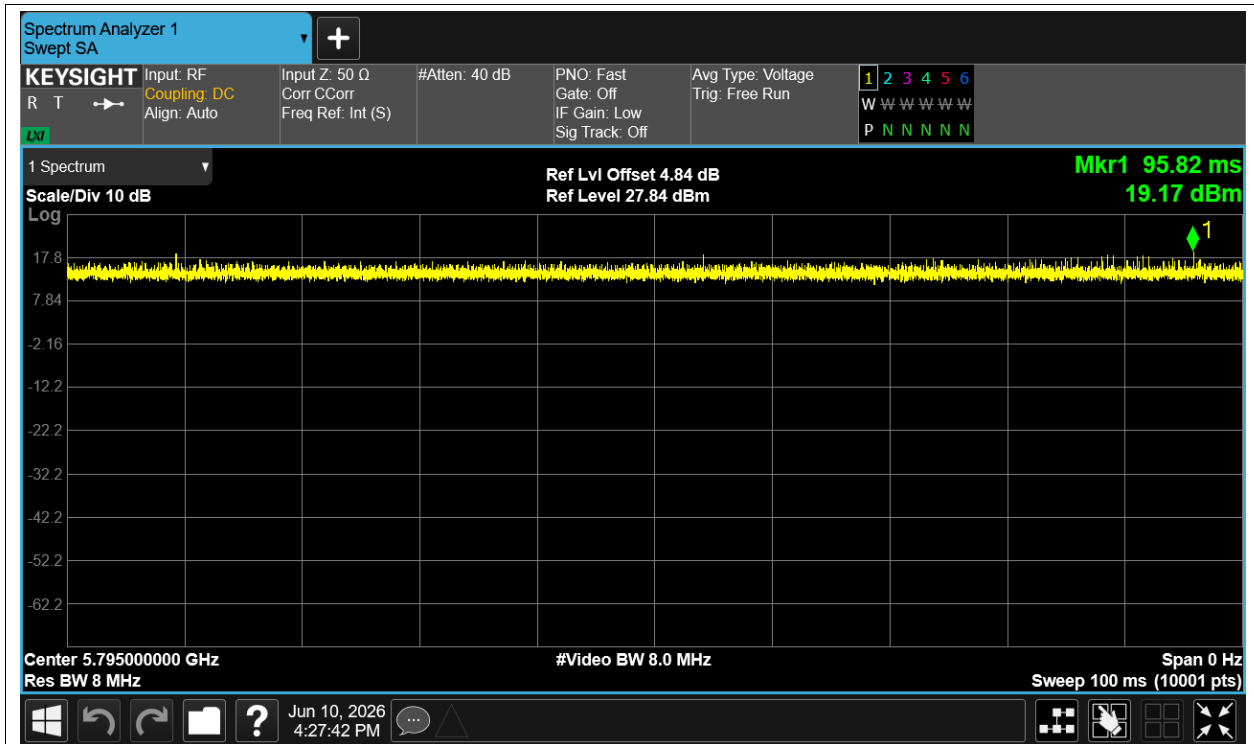
Duty Cycle NVNT ac20 5825MHz Sum



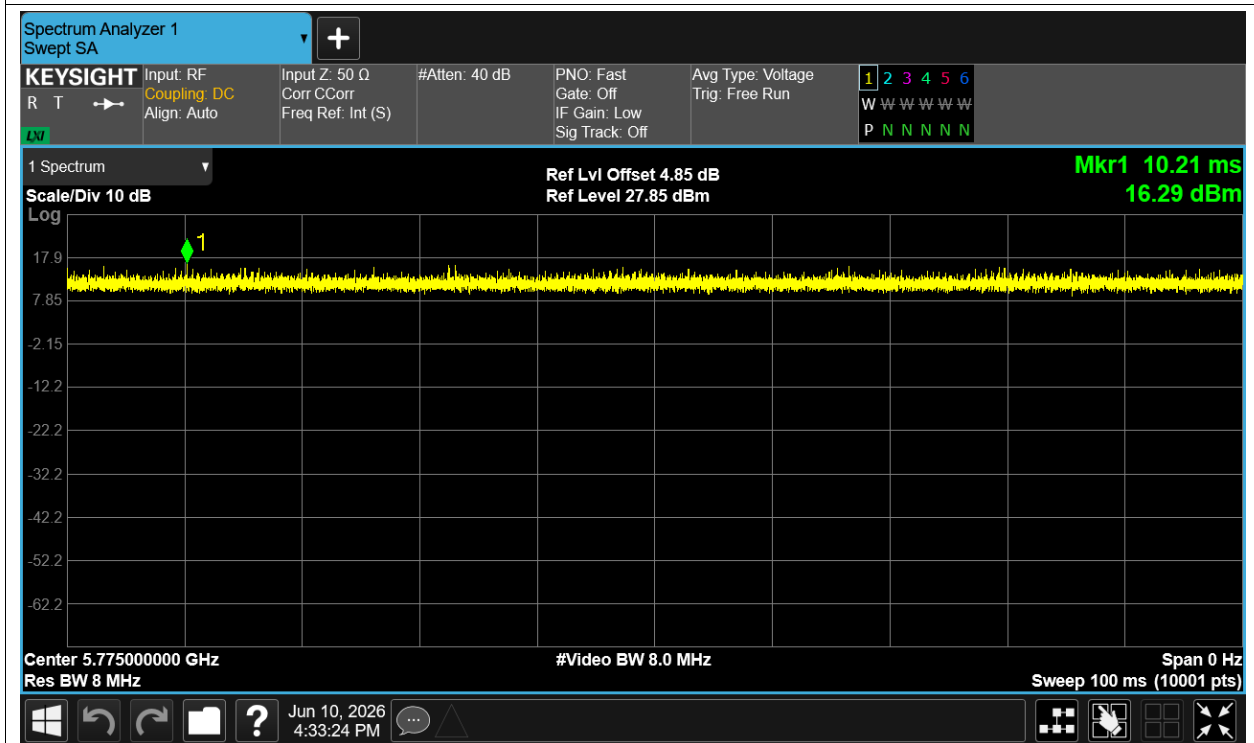
Duty Cycle NVNT ac40 5755MHz Sum



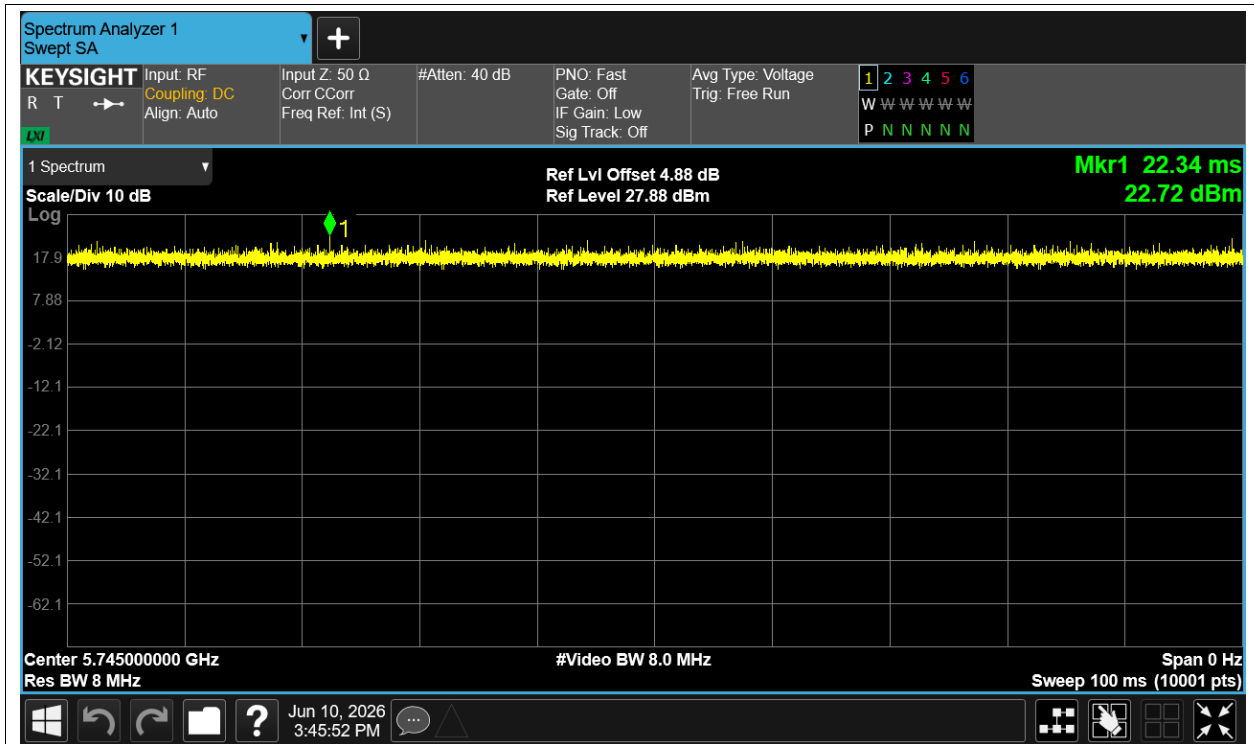
Duty Cycle NVNT ac40 5795MHz Sum



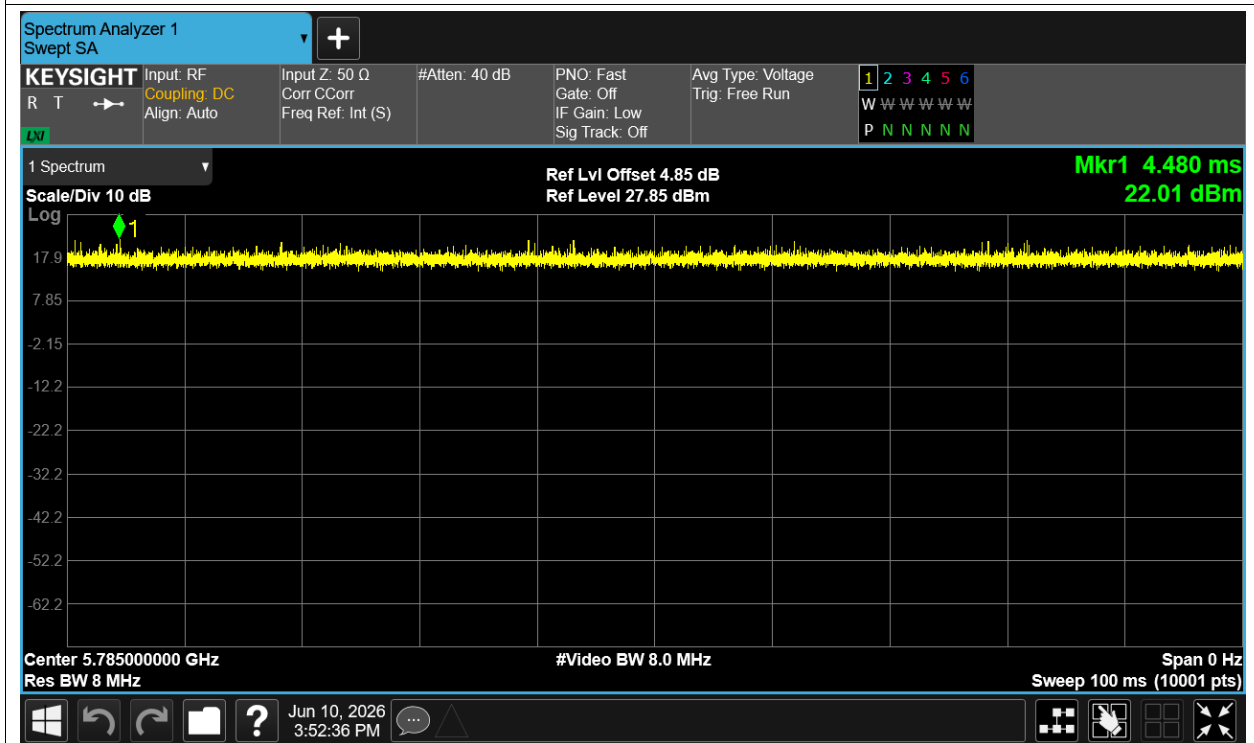
Duty Cycle NVNT ac80 5775MHz Sum



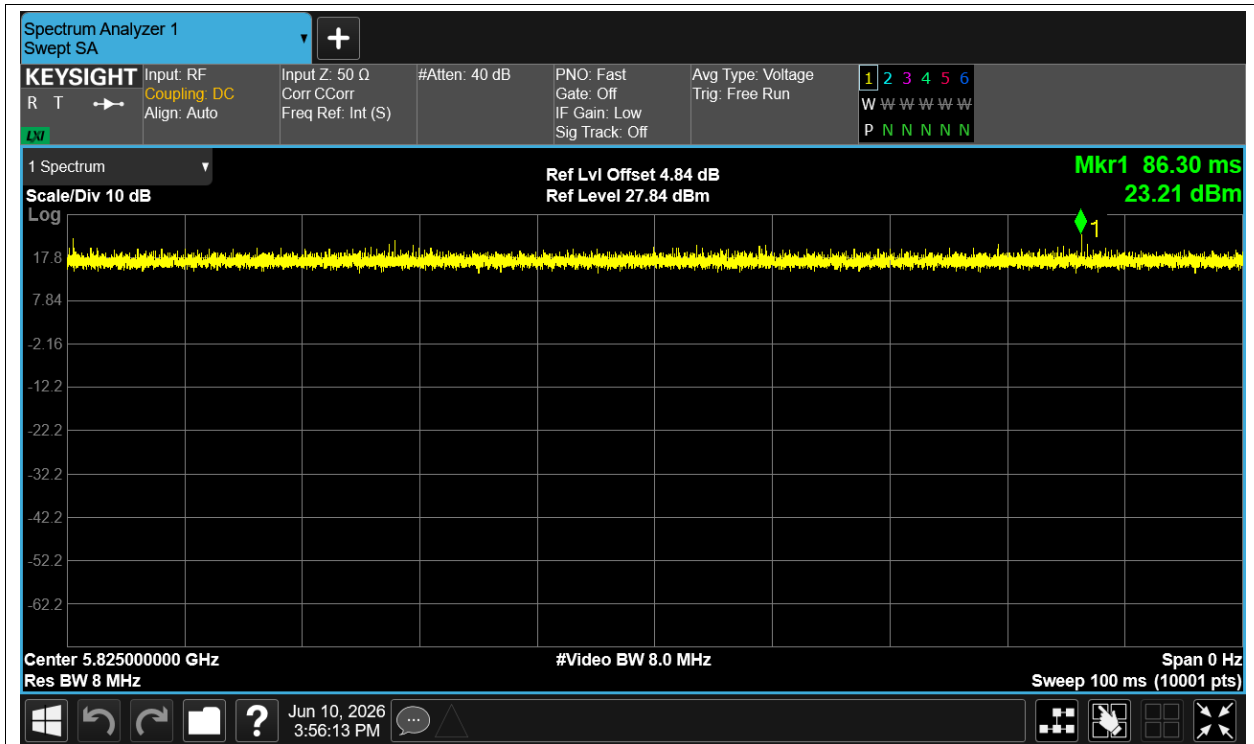
Duty Cycle NVNT n20 5745MHz Sum



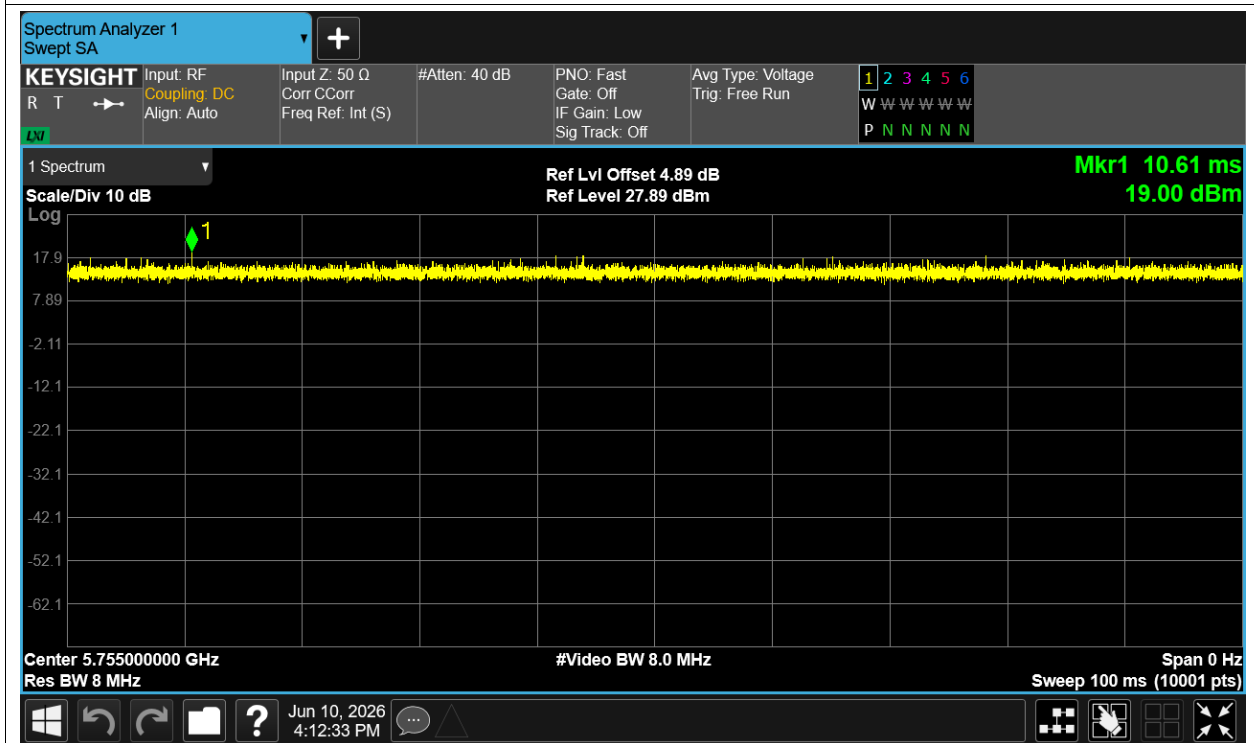
Duty Cycle NVNT n20 5785MHz Sum



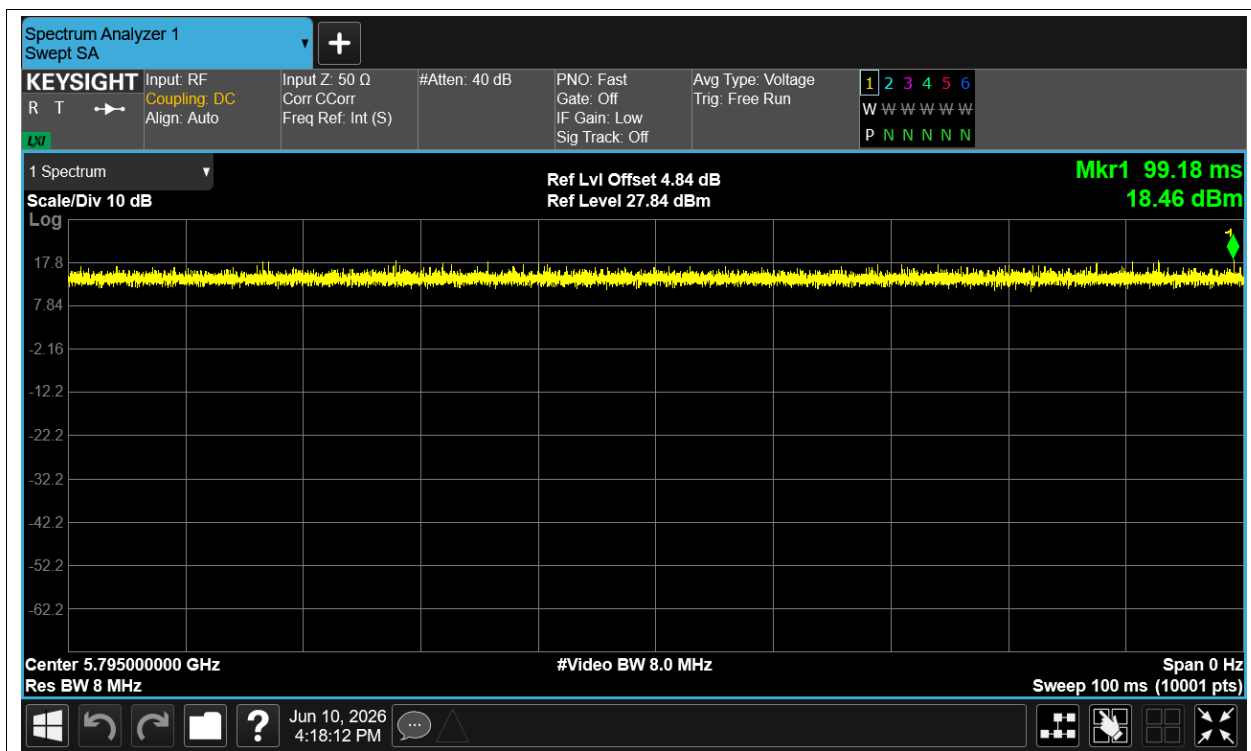
Duty Cycle NVNT n20 5825MHz Sum



Duty Cycle NVNT n40 5755MHz Sum



Duty Cycle NVNT n40 5795MHz Sum



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	14.96	0	14.96	30	Pass
NVNT	a	5785	Ant1	15.25	0	15.25	30	Pass
NVNT	a	5825	Ant1	14.52	0	14.52	30	Pass
NVNT	a	5745	Ant2	14.45	0	14.45	30	Pass
NVNT	a	5785	Ant2	16.37	0	16.37	30	Pass
NVNT	a	5825	Ant2	14.93	0	14.93	30	Pass
NVNT	ac20	5745	Ant1	12.97	0	12.97	28.27	Pass
NVNT	ac20	5745	Ant2	12.33	0	12.33	28.27	Pass
NVNT	ac20	5745	Sum	15.672	0	15.672	28.27	Pass
NVNT	ac20	5785	Ant1	13.38	0	13.38	28.27	Pass
NVNT	ac20	5785	Ant2	14.07	0	14.07	28.27	Pass
NVNT	ac20	5785	Sum	16.749	0	16.749	28.27	Pass
NVNT	ac20	5825	Ant1	12.6	0	12.6	28.27	Pass
NVNT	ac20	5825	Ant2	12.78	0	12.78	28.27	Pass
NVNT	ac20	5825	Sum	15.701	0	15.701	28.27	Pass
NVNT	ac40	5755	Ant1	12.95	0	12.95	28.27	Pass
NVNT	ac40	5755	Ant2	12.97	0	12.97	28.27	Pass
NVNT	ac40	5755	Sum	15.97	0	15.97	28.27	Pass
NVNT	ac40	5795	Ant1	13.29	0	13.29	28.27	Pass
NVNT	ac40	5795	Ant2	13.4	0	13.4	28.27	Pass
NVNT	ac40	5795	Sum	16.356	0	16.356	28.27	Pass
NVNT	ac80	5775	Ant1	13.17	0	13.17	28.27	Pass
NVNT	ac80	5775	Ant2	13.6	0	13.6	28.27	Pass
NVNT	ac80	5775	Sum	16.401	0	16.401	28.27	Pass
NVNT	n20	5745	Ant1	13.33	0	13.33	28.27	Pass
NVNT	n20	5745	Ant2	12.85	0	12.85	28.27	Pass
NVNT	n20	5745	Sum	16.107	0	16.107	28.27	Pass
NVNT	n20	5785	Ant1	13.51	0	13.51	28.27	Pass
NVNT	n20	5785	Ant2	14.27	0	14.27	28.27	Pass
NVNT	n20	5785	Sum	16.917	0	16.917	28.27	Pass
NVNT	n20	5825	Ant1	12.49	0	12.49	28.27	Pass
NVNT	n20	5825	Ant2	12.73	0	12.73	28.27	Pass
NVNT	n20	5825	Sum	15.622	0	15.622	28.27	Pass
NVNT	n40	5755	Ant1	12.46	0	12.46	28.27	Pass
NVNT	n40	5755	Ant2	12.63	0	12.63	28.27	Pass
NVNT	n40	5755	Sum	15.556	0	15.556	28.27	Pass
NVNT	n40	5795	Ant1	13.14	0	13.14	28.27	Pass
NVNT	n40	5795	Ant2	13.59	0	13.59	28.27	Pass
NVNT	n40	5795	Sum	16.381	0	16.381	28.27	Pass

Note: The limits need reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

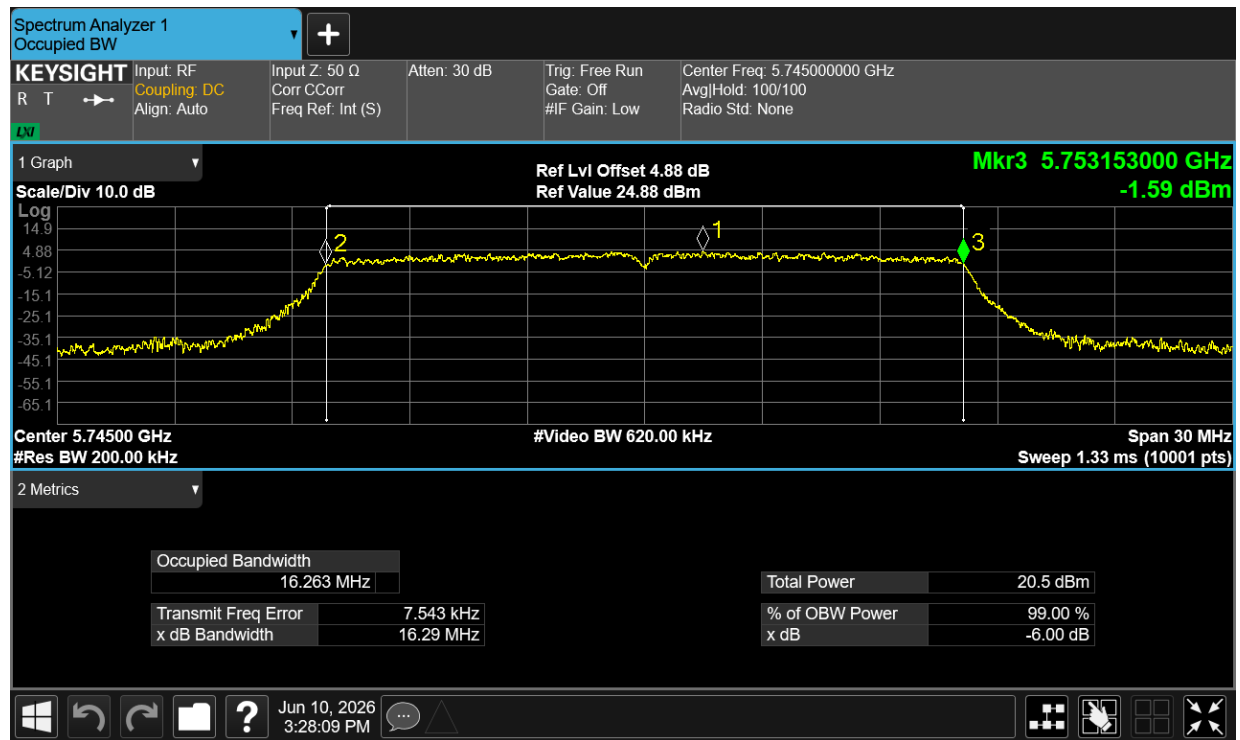
For MIMO mode: ant gain is $4.72+10*\log_{10}(2) = 4.72+3.01=7.73$ dBi, the limit is $30-(7.73-6) = 28.27$ dbm.

-6dB Bandwidth

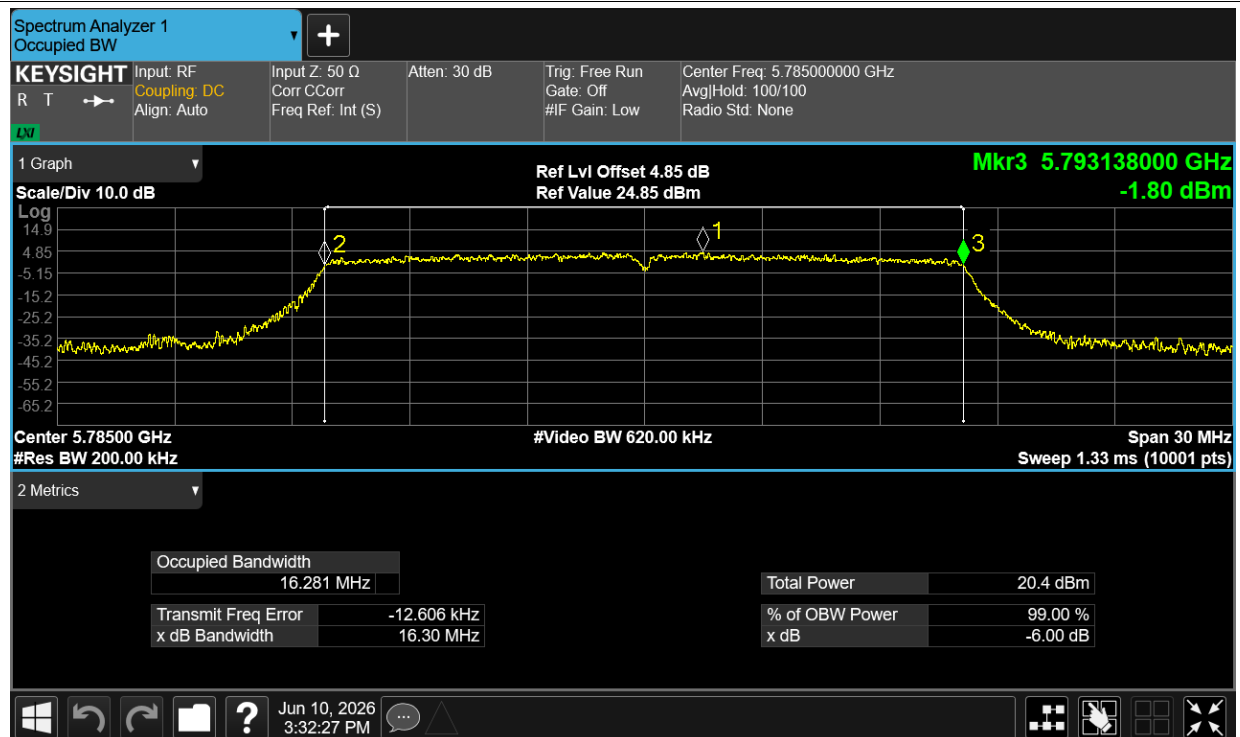
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	a	5745	Ant1	16.291	0.5	Pass
NVNT	a	5785	Ant1	16.302	0.5	Pass
NVNT	a	5825	Ant1	16.231	0.5	Pass
NVNT	a	5745	Ant2	16.285	0.5	Pass
NVNT	a	5785	Ant2	16.285	0.5	Pass
NVNT	a	5825	Ant2	16.149	0.5	Pass
NVNT	ac20	5745	Ant1	17.483	0.5	Pass
NVNT	ac20	5745	Ant2	17.432	0.5	Pass
NVNT	ac20	5785	Ant1	17.476	0.5	Pass
NVNT	ac20	5785	Ant2	17.566	0.5	Pass
NVNT	ac20	5825	Ant1	17.451	0.5	Pass
NVNT	ac20	5825	Ant2	17.494	0.5	Pass
NVNT	ac40	5755	Ant1	35.757	0.5	Pass
NVNT	ac40	5755	Ant2	35.554	0.5	Pass
NVNT	ac40	5795	Ant1	35.805	0.5	Pass
NVNT	ac40	5795	Ant2	35.656	0.5	Pass
NVNT	ac80	5775	Ant1	74.872	0.5	Pass
NVNT	ac80	5775	Ant2	75.235	0.5	Pass
NVNT	n20	5745	Ant1	17.394	0.5	Pass
NVNT	n20	5745	Ant2	17.463	0.5	Pass
NVNT	n20	5785	Ant1	17.523	0.5	Pass
NVNT	n20	5785	Ant2	17.402	0.5	Pass
NVNT	n20	5825	Ant1	17.388	0.5	Pass
NVNT	n20	5825	Ant2	17.434	0.5	Pass
NVNT	n40	5755	Ant1	35.6	0.5	Pass
NVNT	n40	5755	Ant2	35.83	0.5	Pass
NVNT	n40	5795	Ant1	35.75	0.5	Pass
NVNT	n40	5795	Ant2	35.402	0.5	Pass

Test Graphs

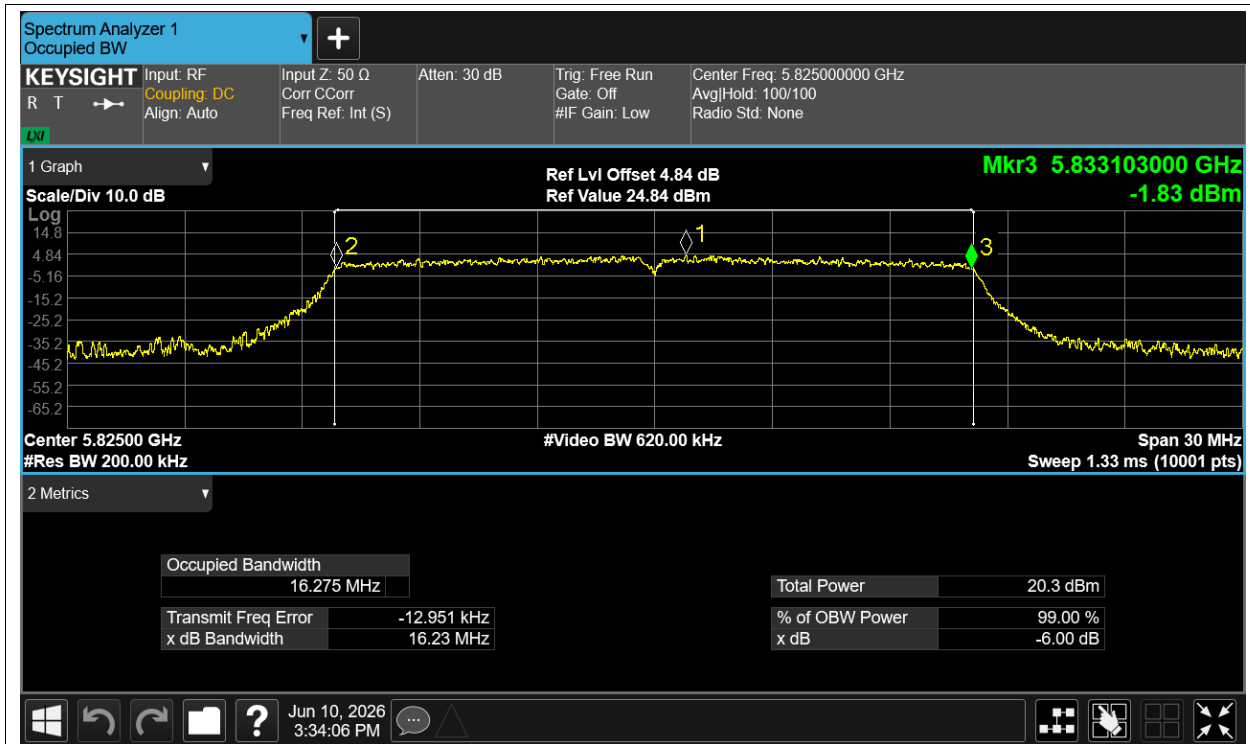
-6dB Bandwidth NVNT a 5745MHz Ant1



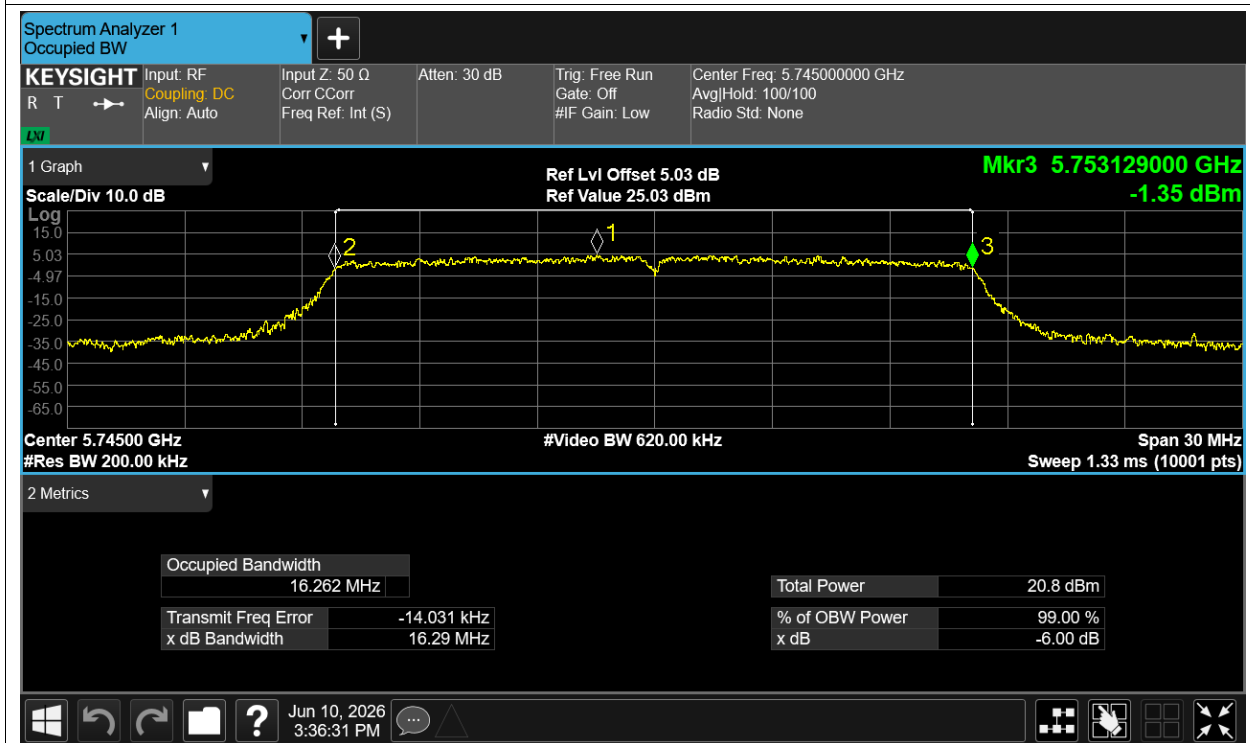
-6dB Bandwidth NVNT a 5785MHz Ant1



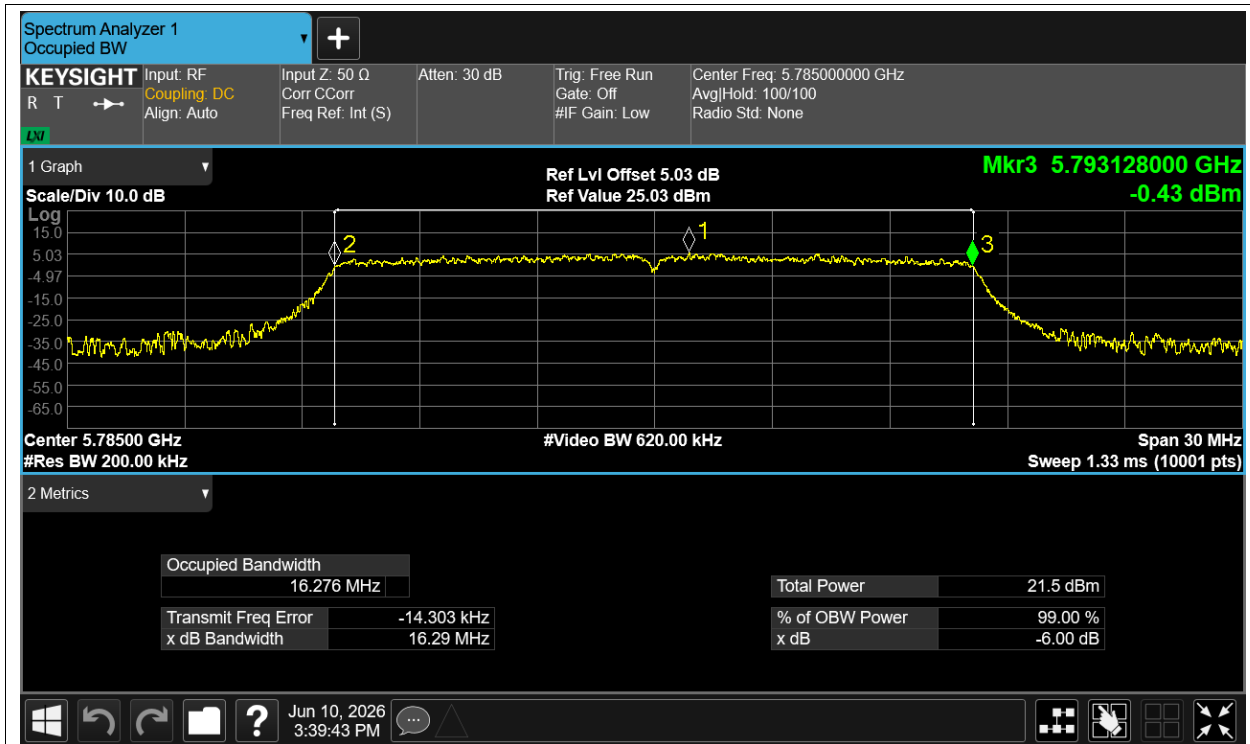
-6dB Bandwidth NVNT a 5825MHz Ant1



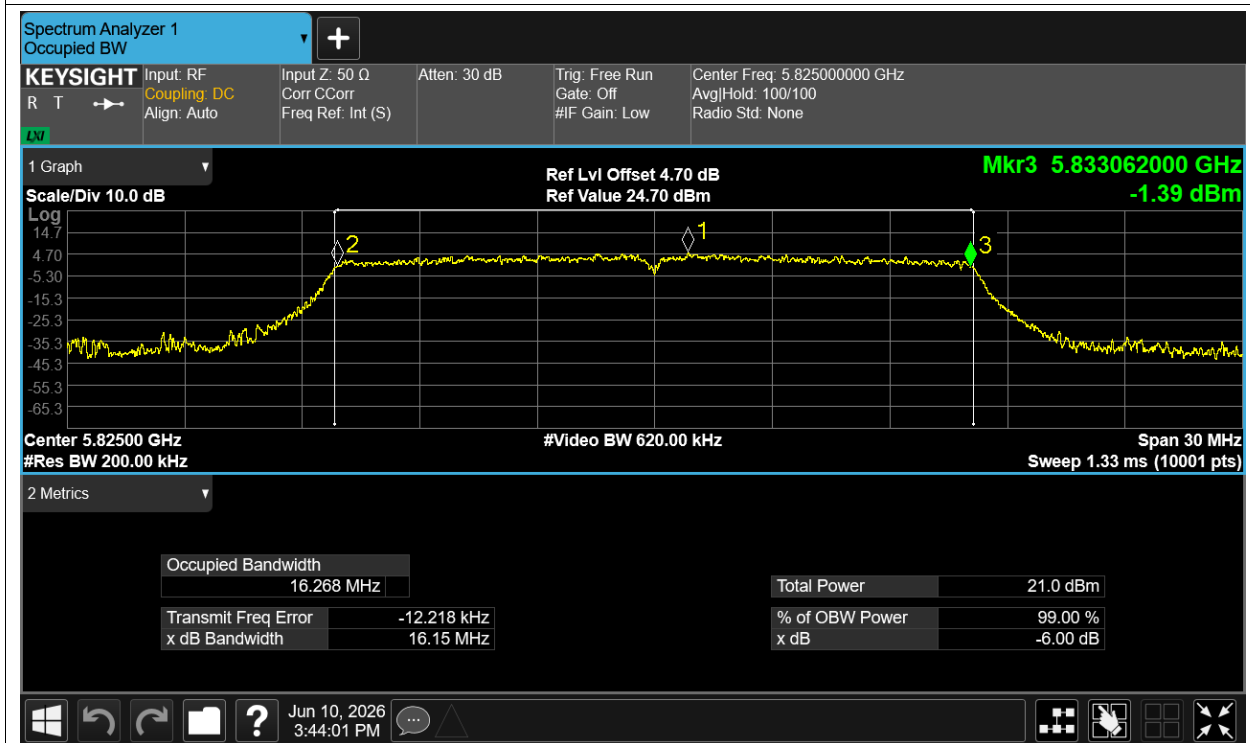
-6dB Bandwidth NVNT a 5745MHz Ant2



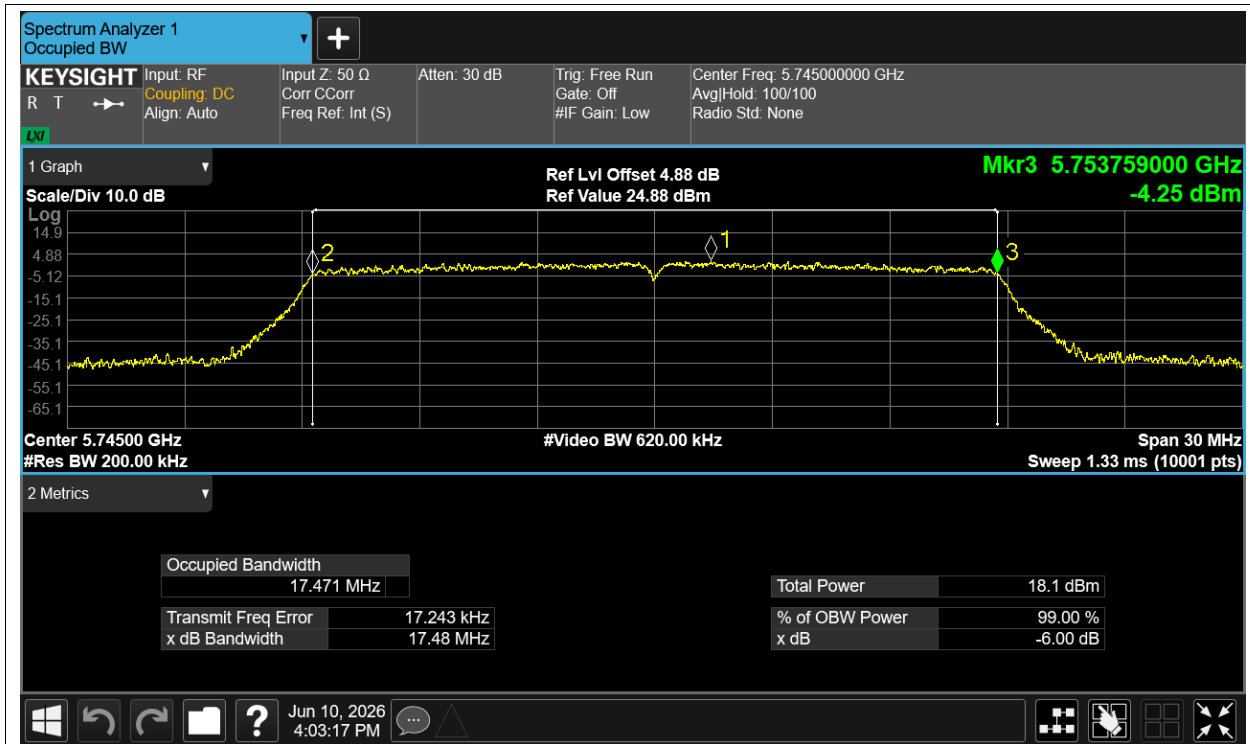
-6dB Bandwidth NVNT a 5785MHz Ant2



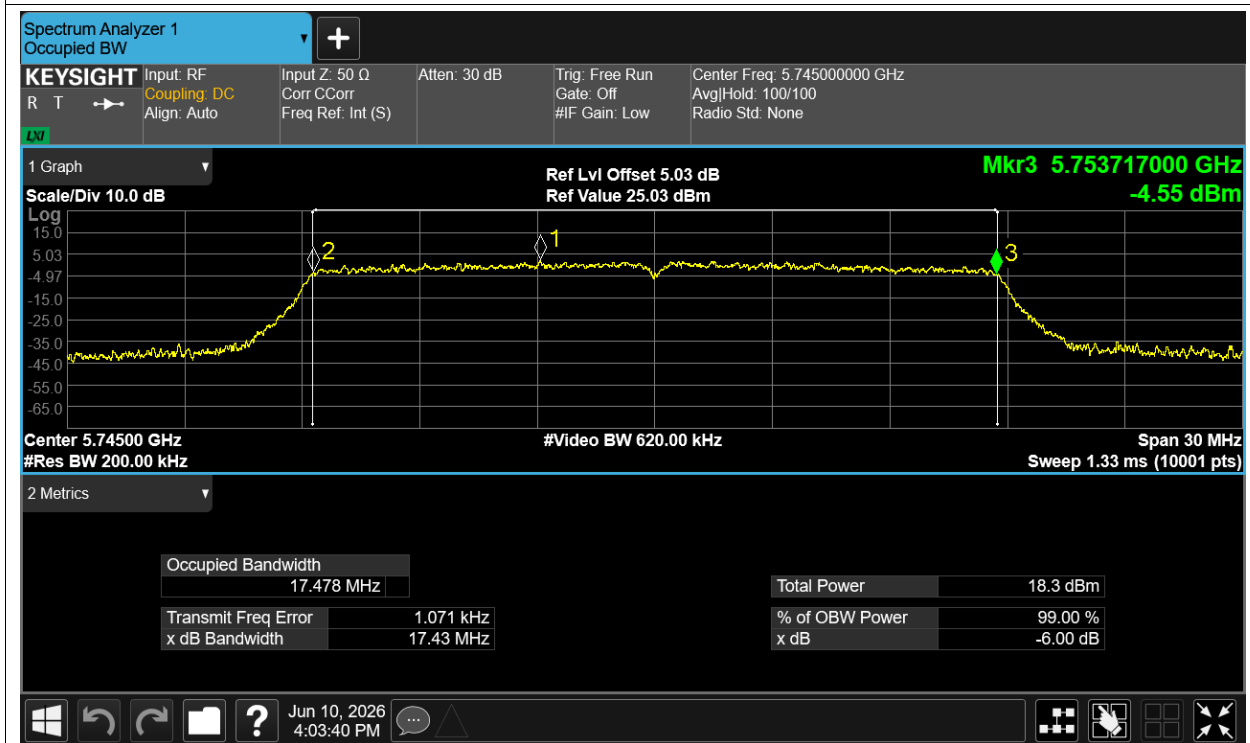
-6dB Bandwidth NVNT a 5825MHz Ant2



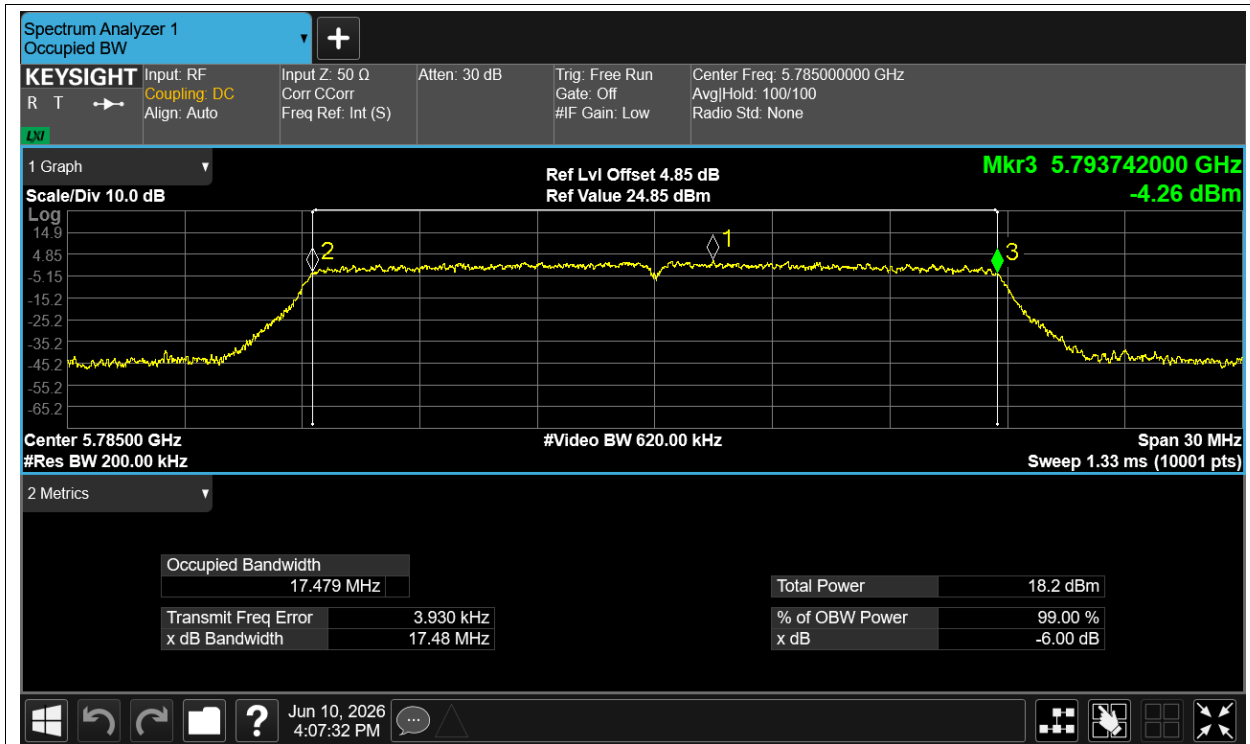
-6dB Bandwidth NVNT ac20 5745MHz Ant1



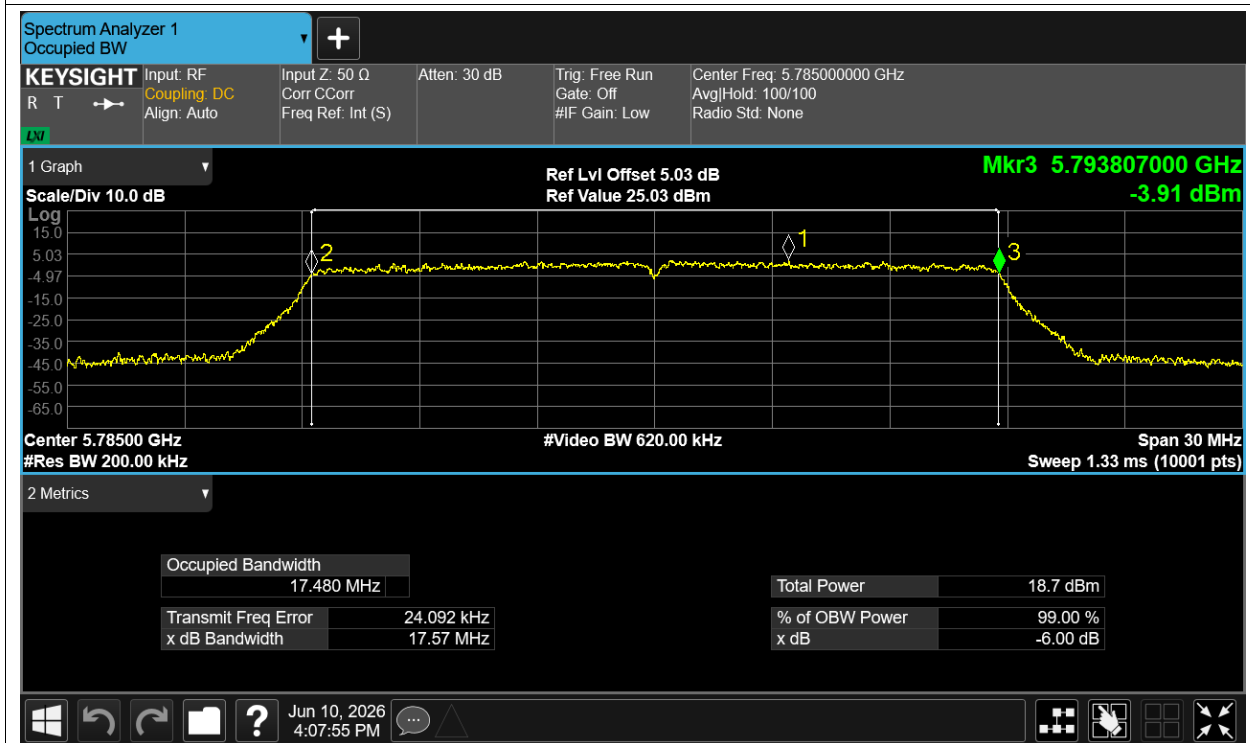
-6dB Bandwidth NVNT ac20 5745MHz Ant2



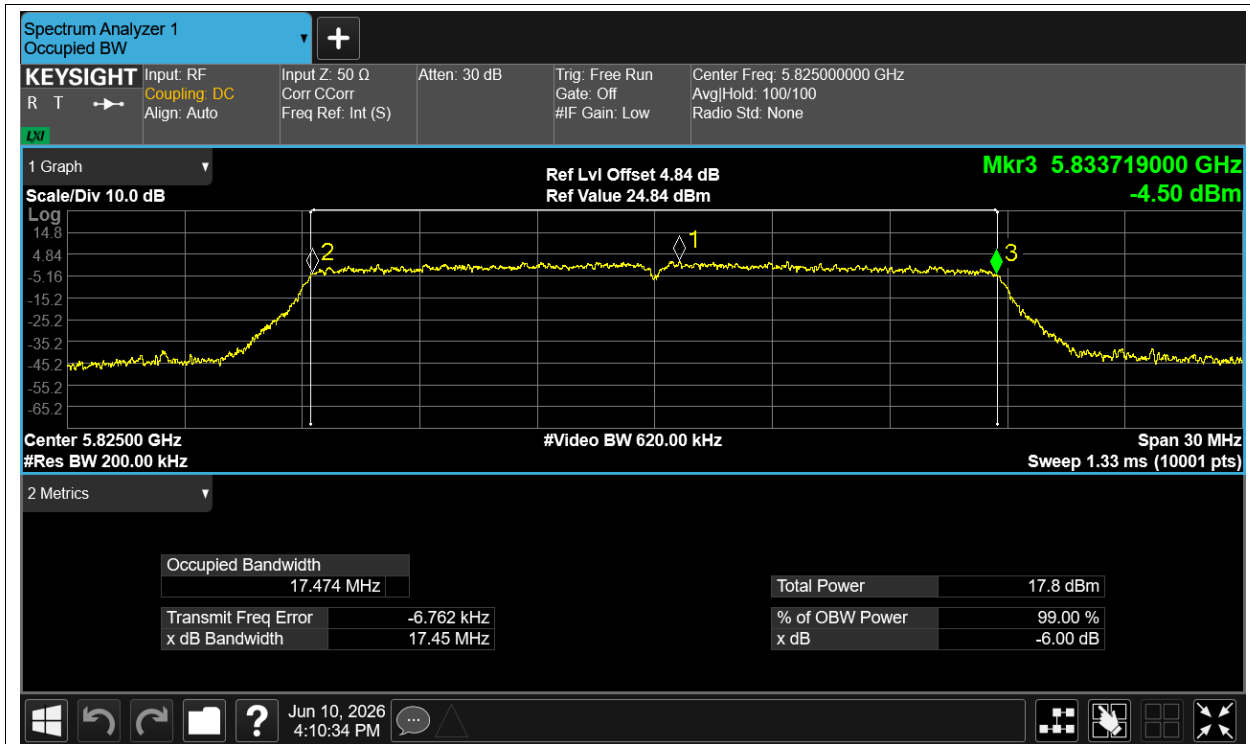
-6dB Bandwidth NVNT ac20 5785MHz Ant1



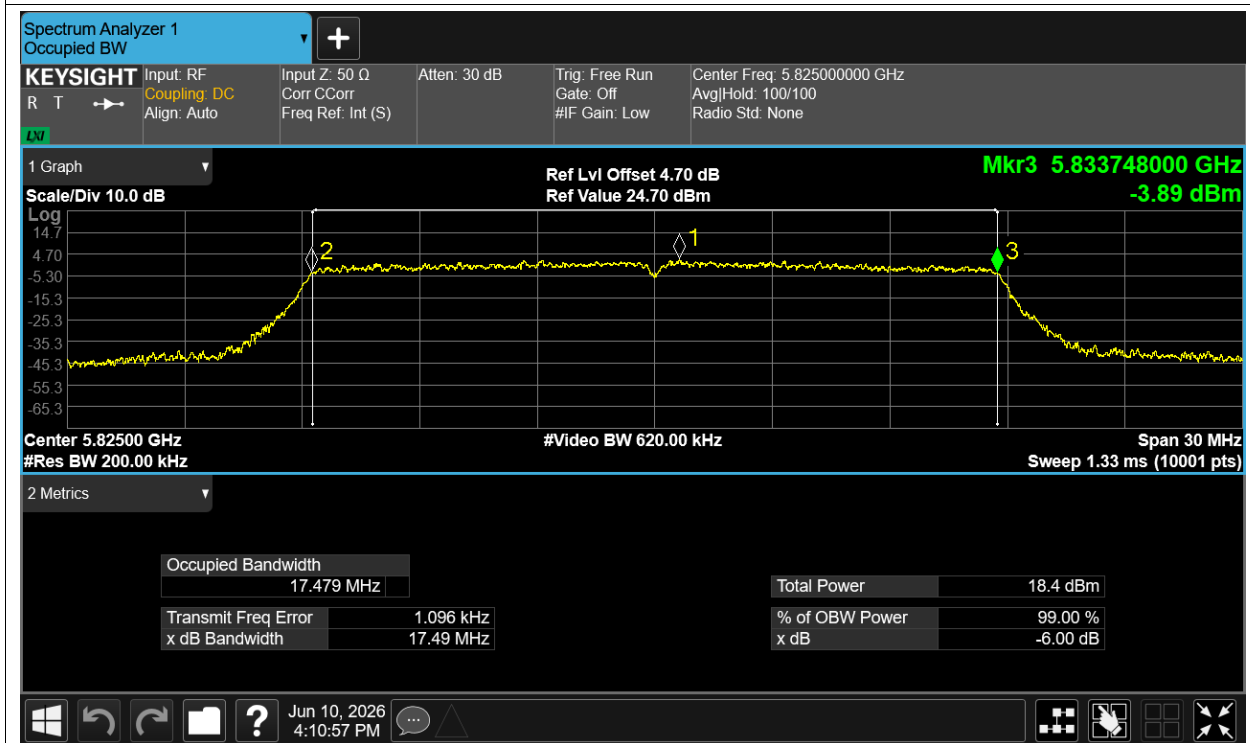
-6dB Bandwidth NVNT ac20 5785MHz Ant2



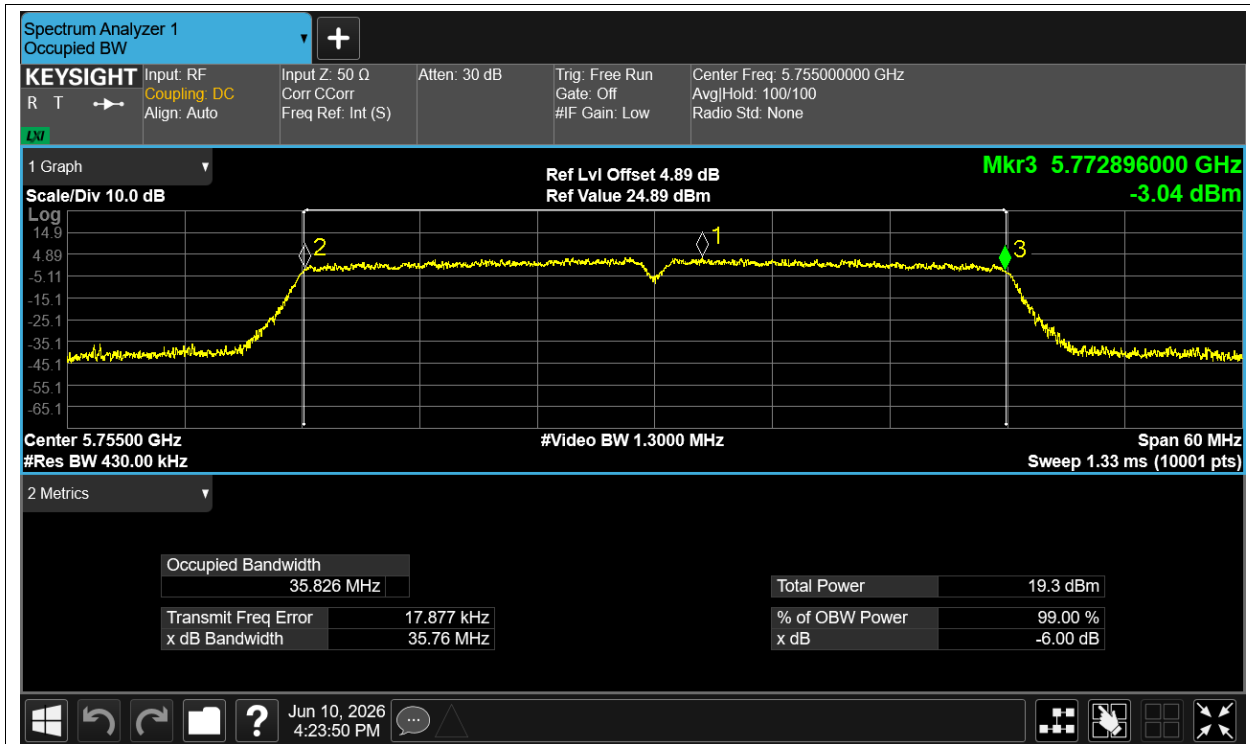
-6dB Bandwidth NVNT ac20 5825MHz Ant1



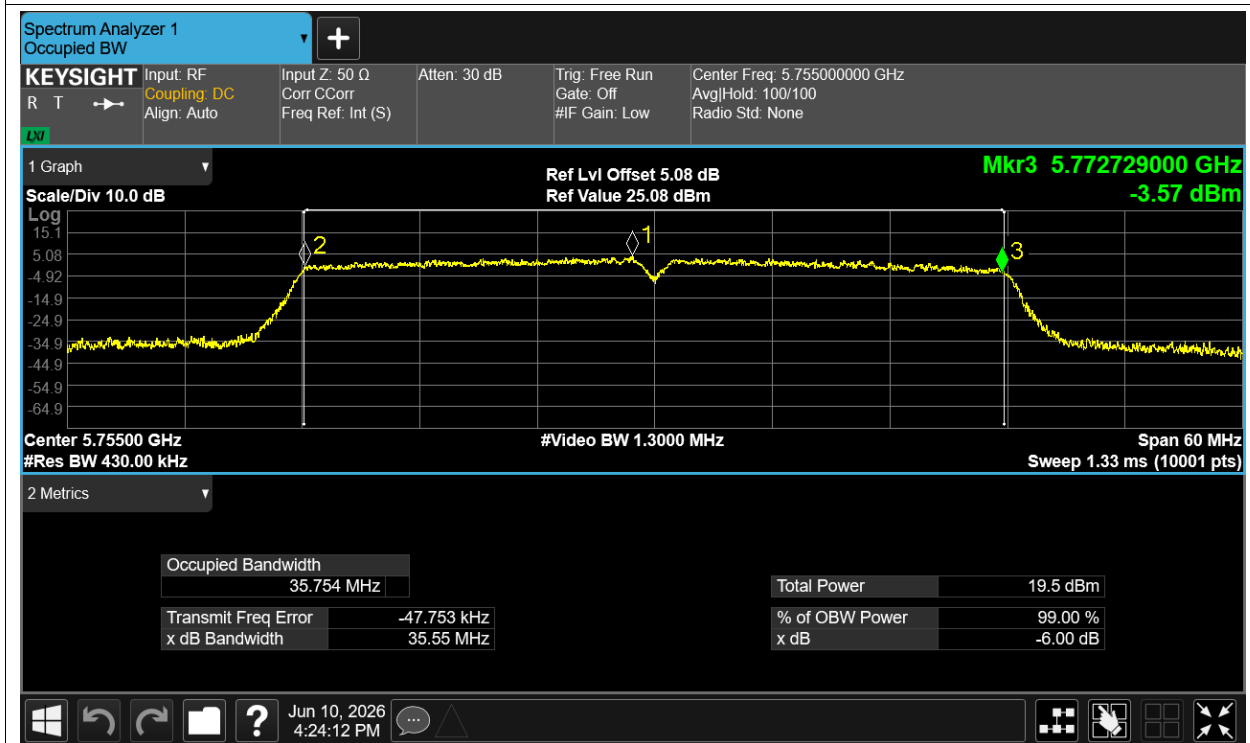
-6dB Bandwidth NVNT ac20 5825MHz Ant2



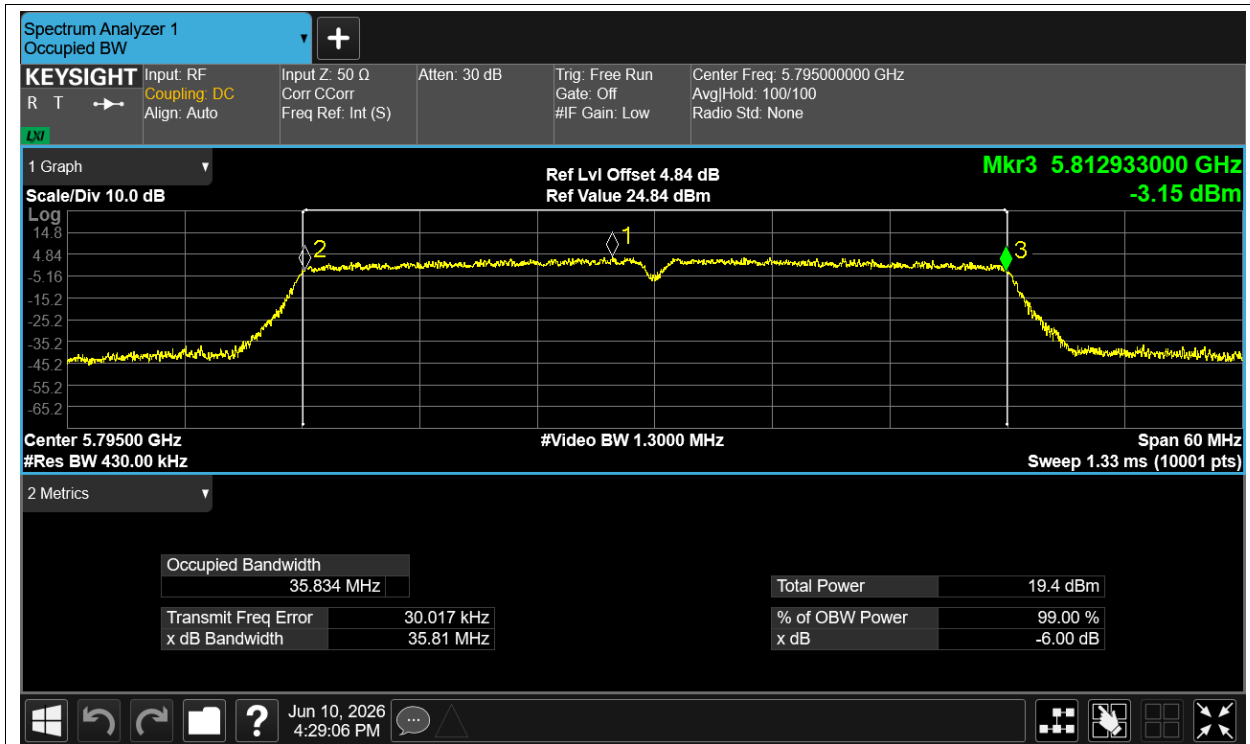
-6dB Bandwidth NVNT ac40 5755MHz Ant1



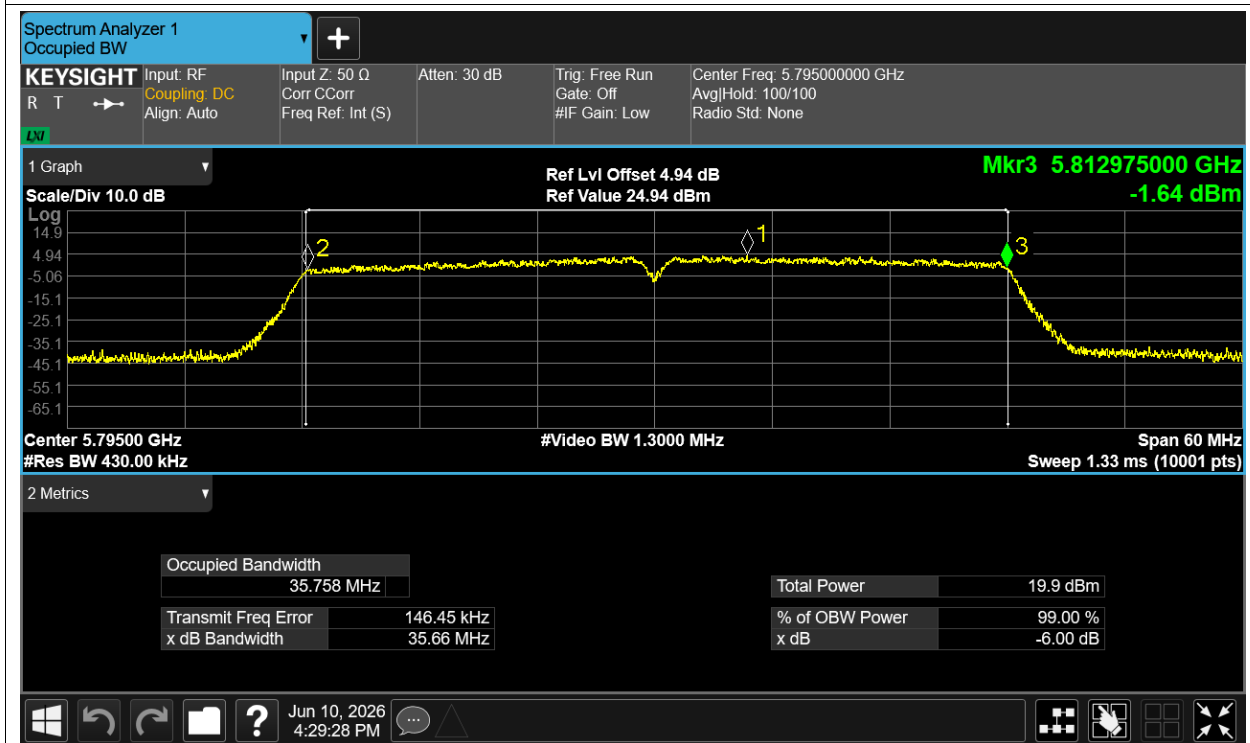
-6dB Bandwidth NVNT ac40 5755MHz Ant2



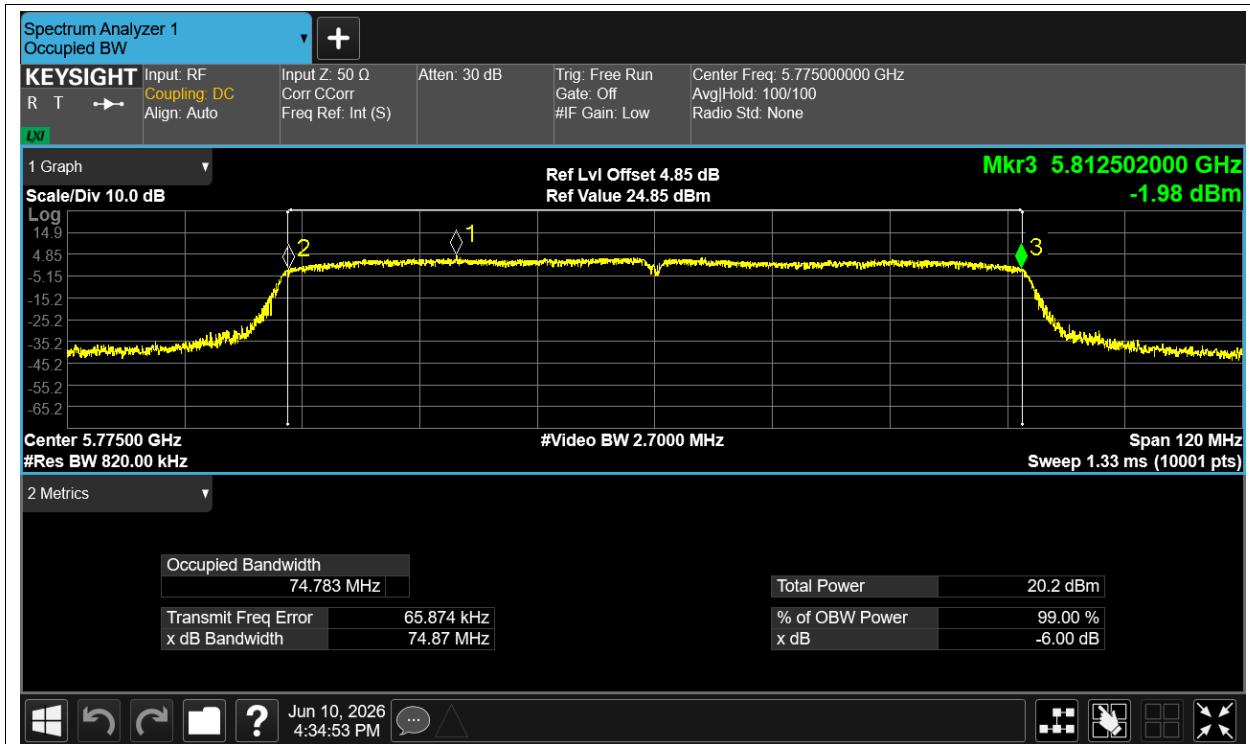
-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant2



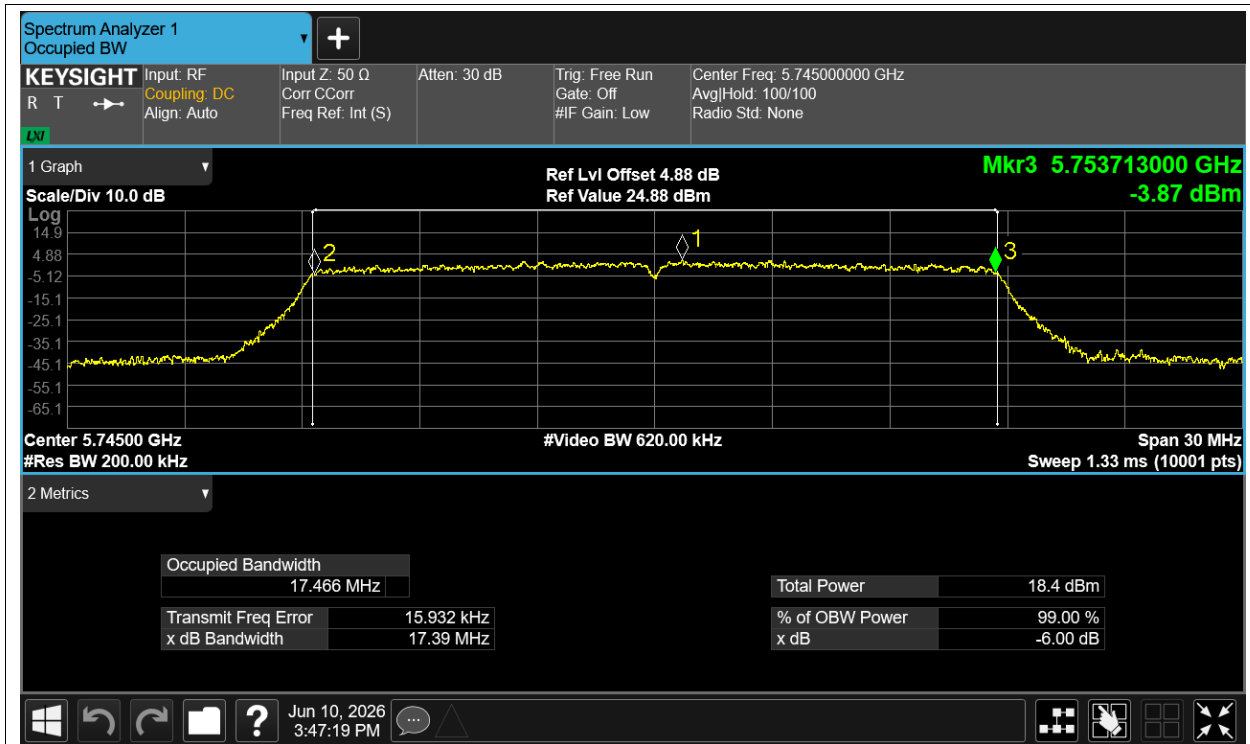
-6dB Bandwidth NVNT ac80 5775MHz Ant1



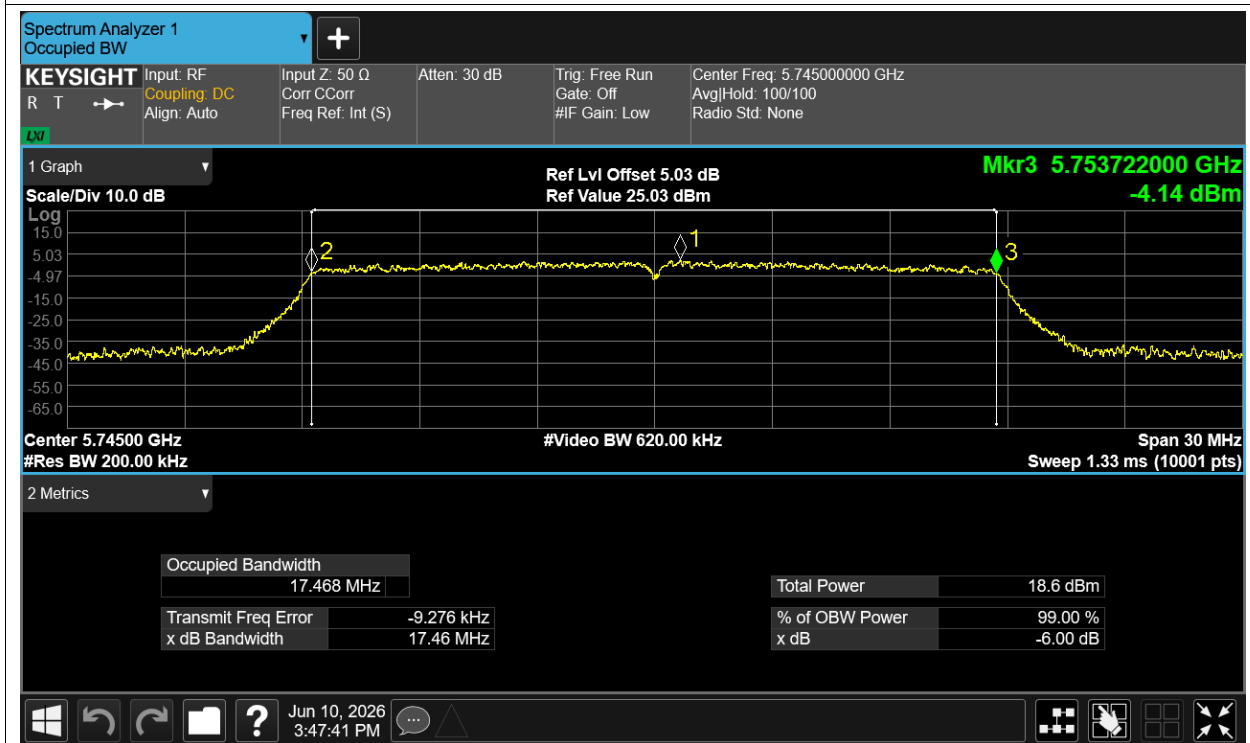
-6dB Bandwidth NVNT ac80 5775MHz Ant2



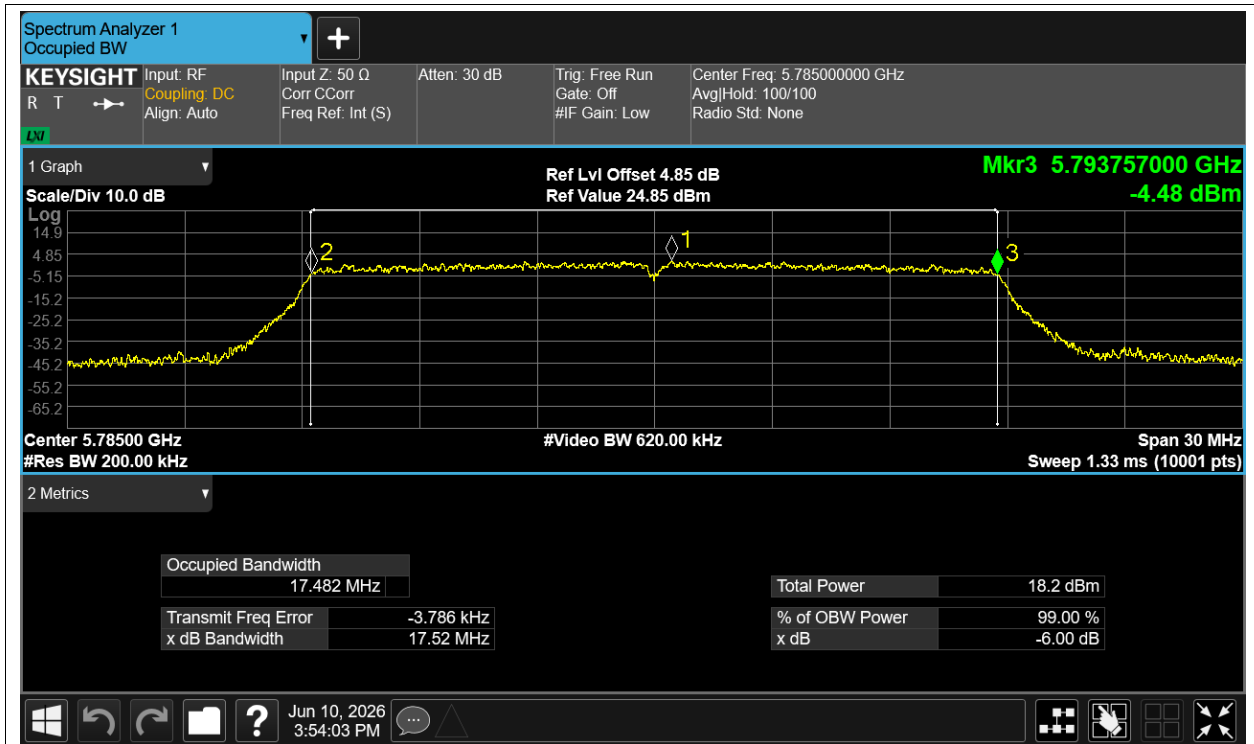
-6dB Bandwidth NVNT n20 5745MHz Ant1



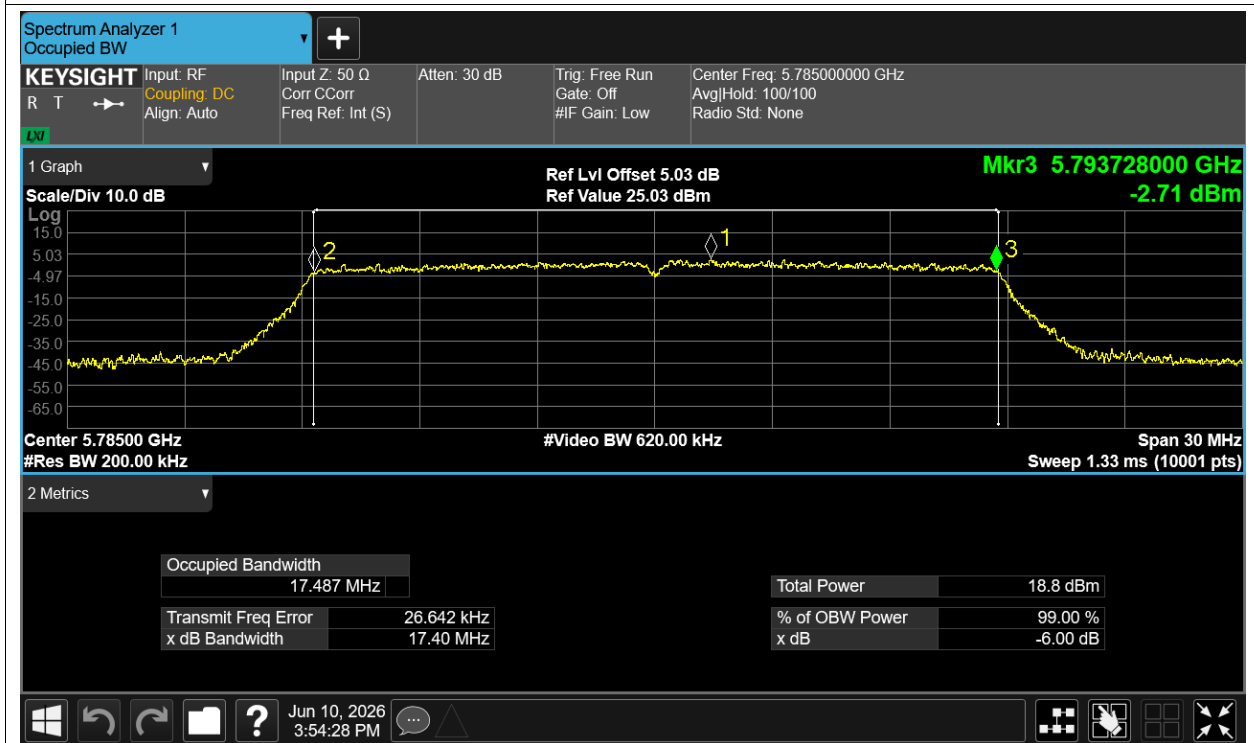
-6dB Bandwidth NVNT n20 5745MHz Ant2



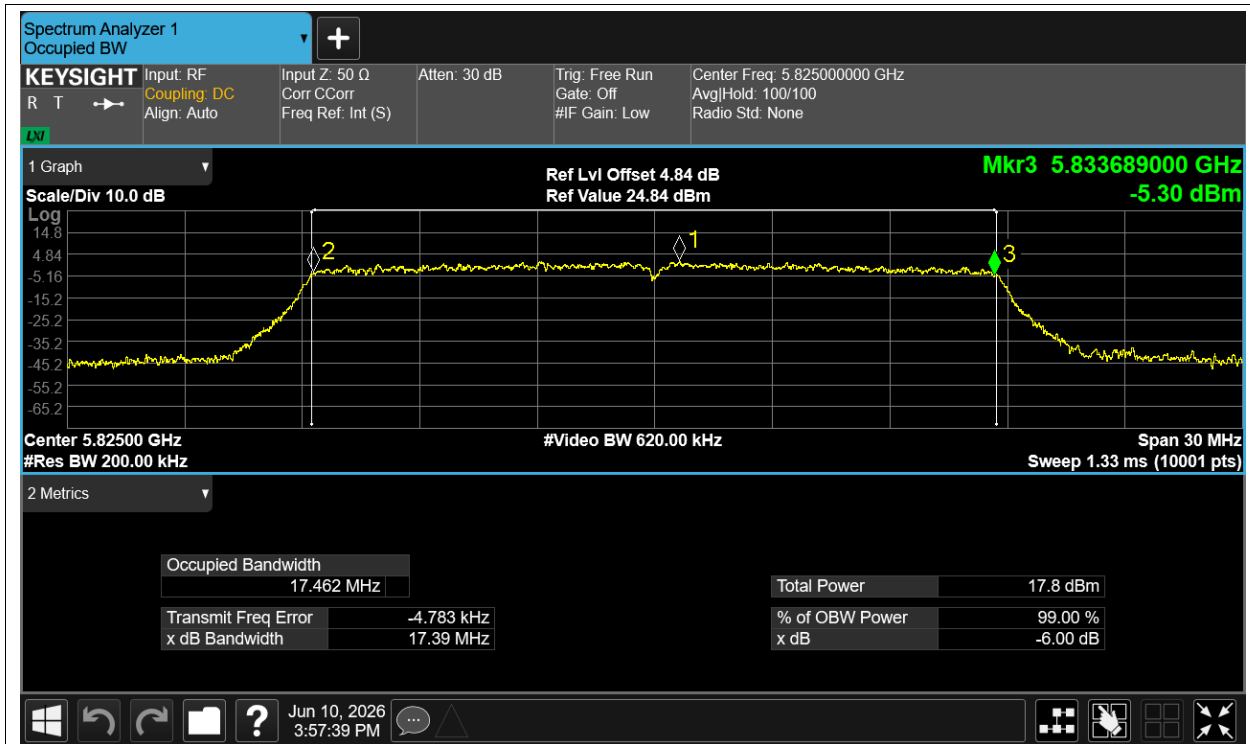
-6dB Bandwidth NVNT n20 5785MHz Ant1



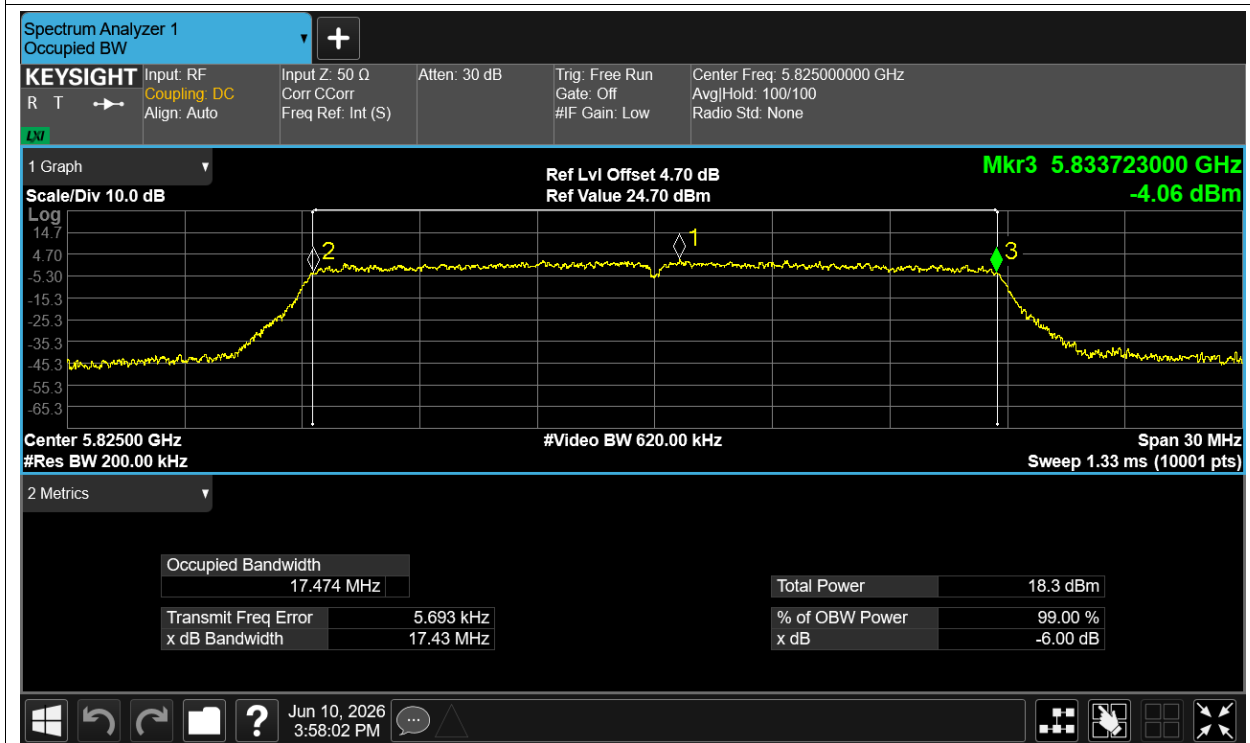
-6dB Bandwidth NVNT n20 5785MHz Ant2



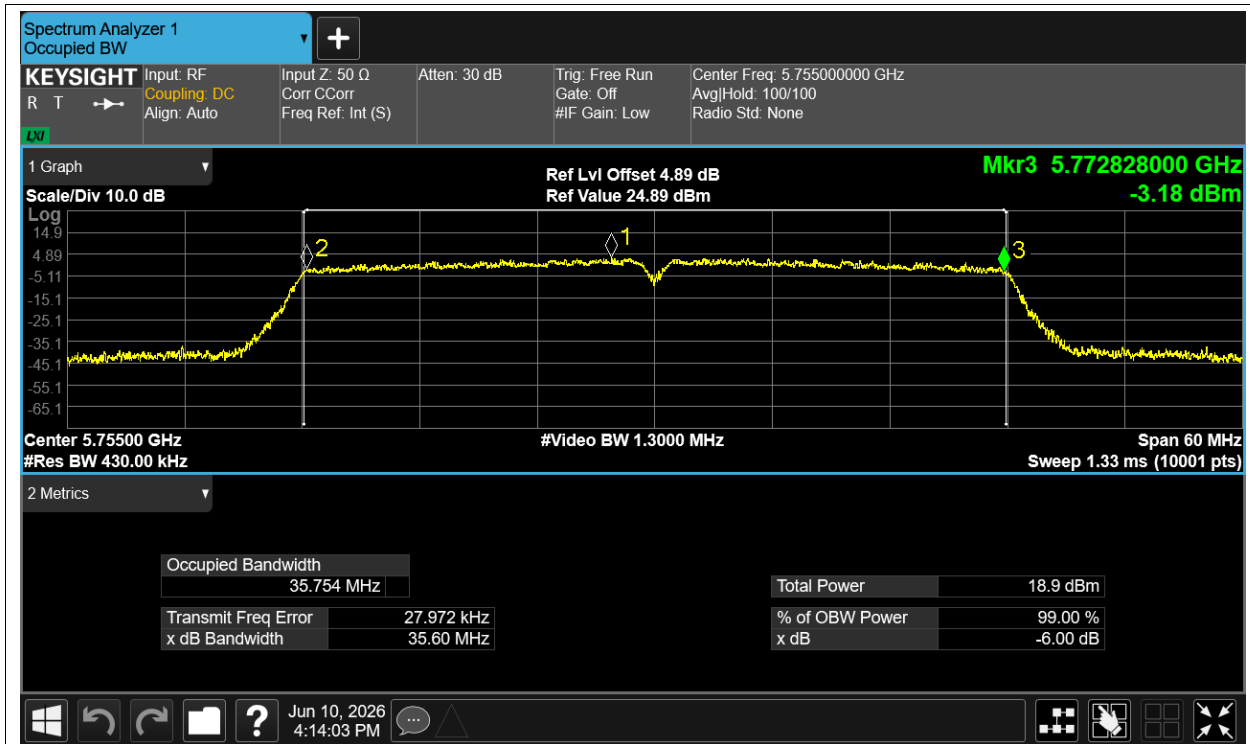
-6dB Bandwidth NVNT n20 5825MHz Ant1



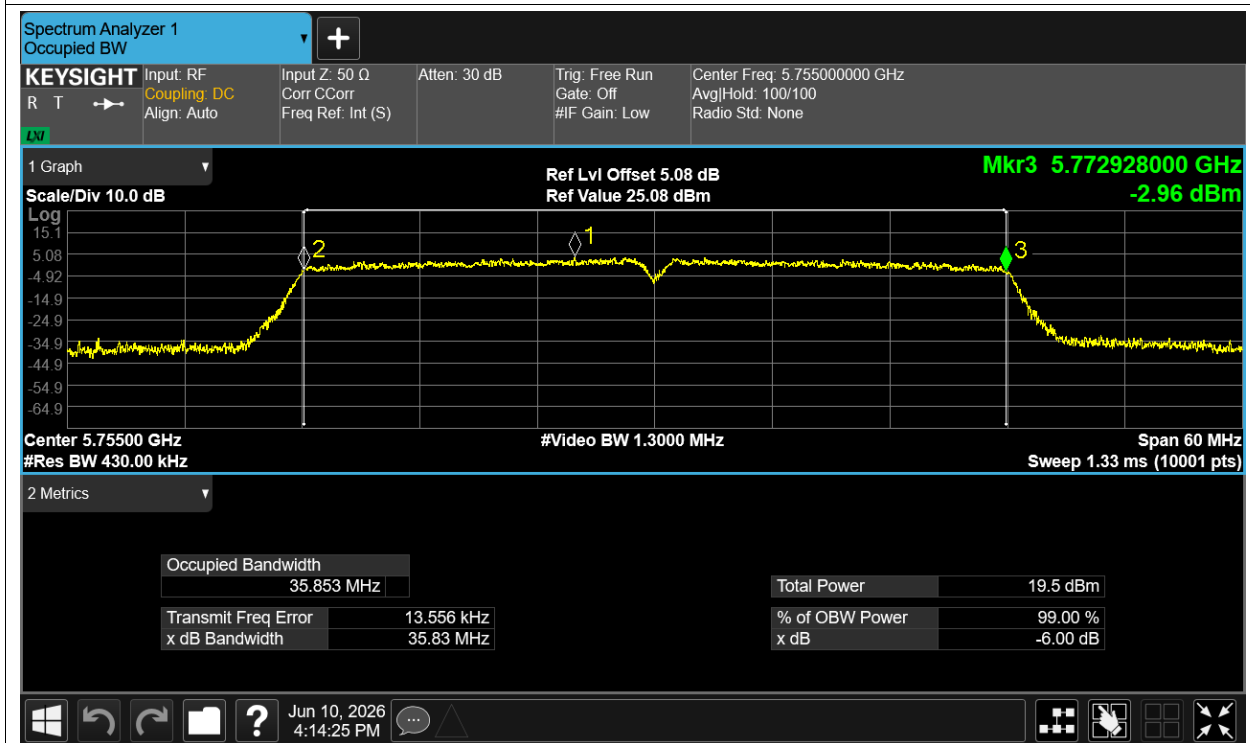
-6dB Bandwidth NVNT n20 5825MHz Ant2



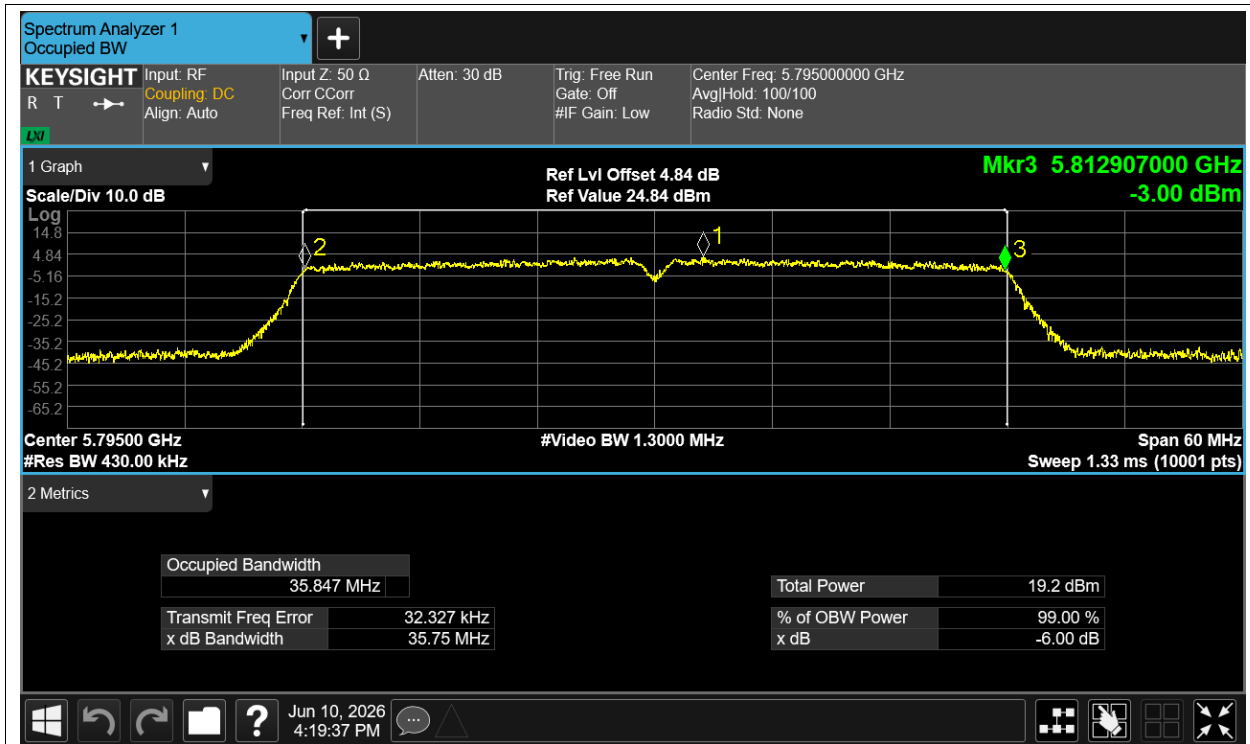
-6dB Bandwidth NVNT n40 5755MHz Ant1



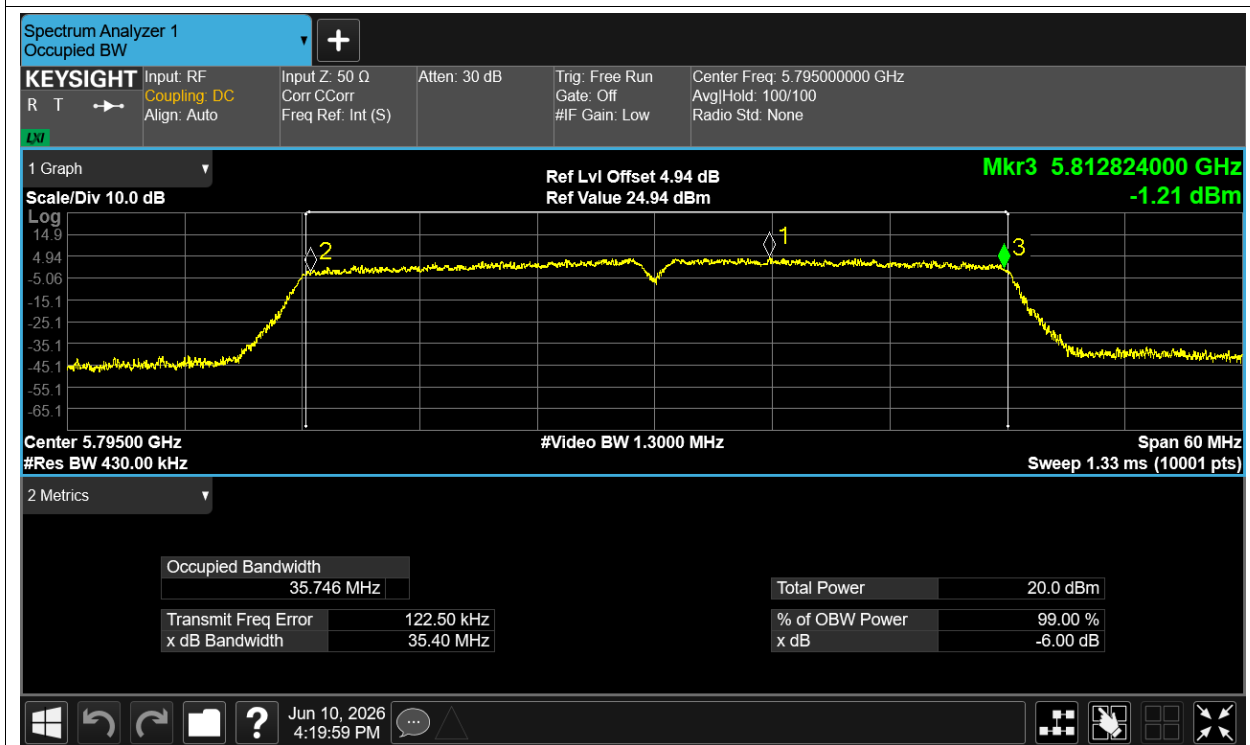
-6dB Bandwidth NVNT n40 5755MHz Ant2



-6dB Bandwidth NVNT n40 5795MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant2

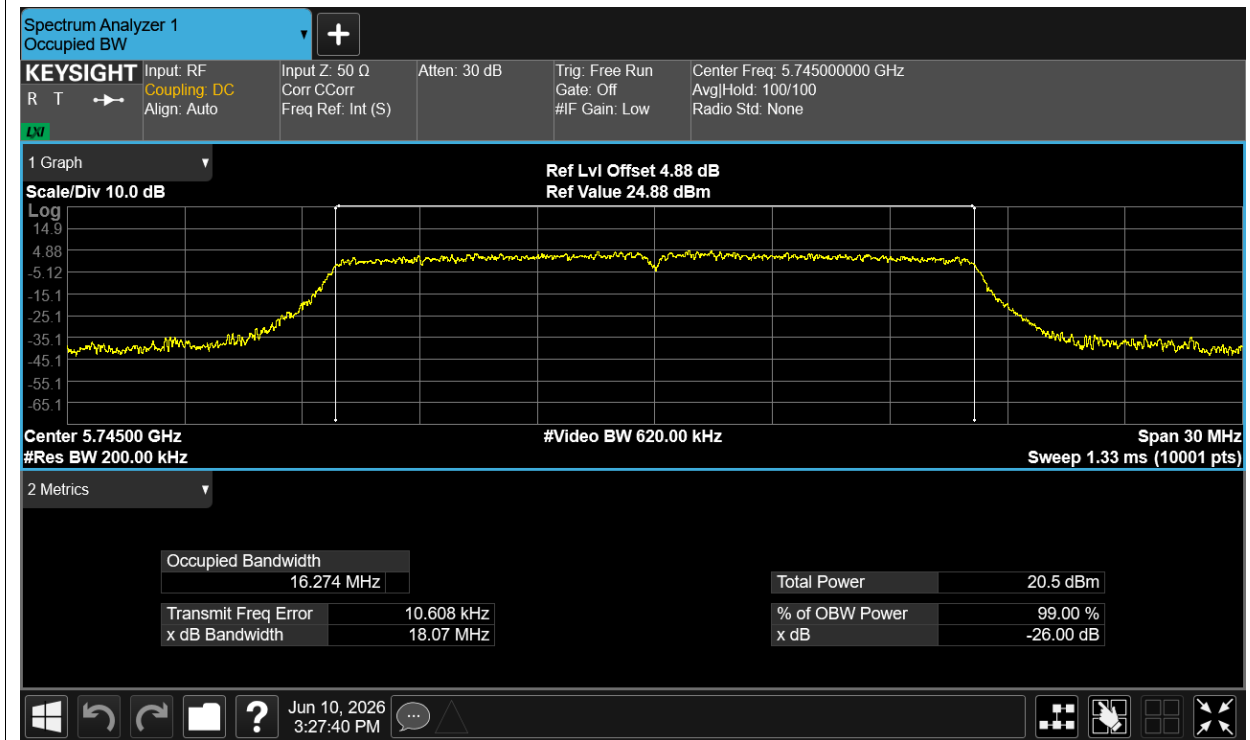


Occupied Channel Bandwidth

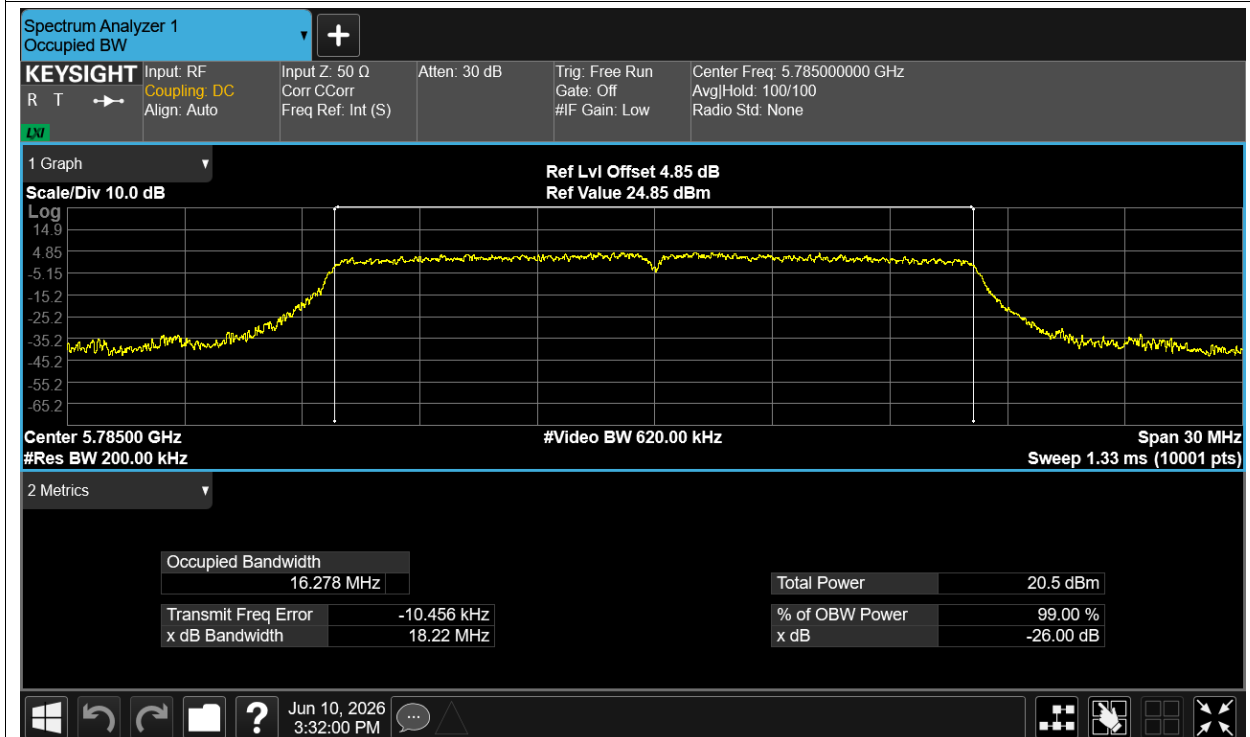
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.274
NVNT	a	5785	Ant1	16.278
NVNT	a	5825	Ant1	16.282
NVNT	a	5745	Ant2	16.272
NVNT	a	5785	Ant2	16.272
NVNT	a	5825	Ant2	16.258
NVNT	ac20	5745	Ant1	17.473
NVNT	ac20	5745	Ant2	17.475
NVNT	ac20	5785	Ant1	17.49
NVNT	ac20	5785	Ant2	17.478
NVNT	ac20	5825	Ant1	17.468
NVNT	ac20	5825	Ant2	17.464
NVNT	ac40	5755	Ant1	35.845
NVNT	ac40	5755	Ant2	35.756
NVNT	ac40	5795	Ant1	35.85
NVNT	ac40	5795	Ant2	35.765
NVNT	ac80	5775	Ant1	74.826
NVNT	ac80	5775	Ant2	74.851
NVNT	n20	5745	Ant1	17.469
NVNT	n20	5745	Ant2	17.459
NVNT	n20	5785	Ant1	17.481
NVNT	n20	5785	Ant2	17.487
NVNT	n20	5825	Ant1	17.468
NVNT	n20	5825	Ant2	17.473
NVNT	n40	5755	Ant1	35.738
NVNT	n40	5755	Ant2	35.818
NVNT	n40	5795	Ant1	35.84
NVNT	n40	5795	Ant2	35.77

Test Graphs

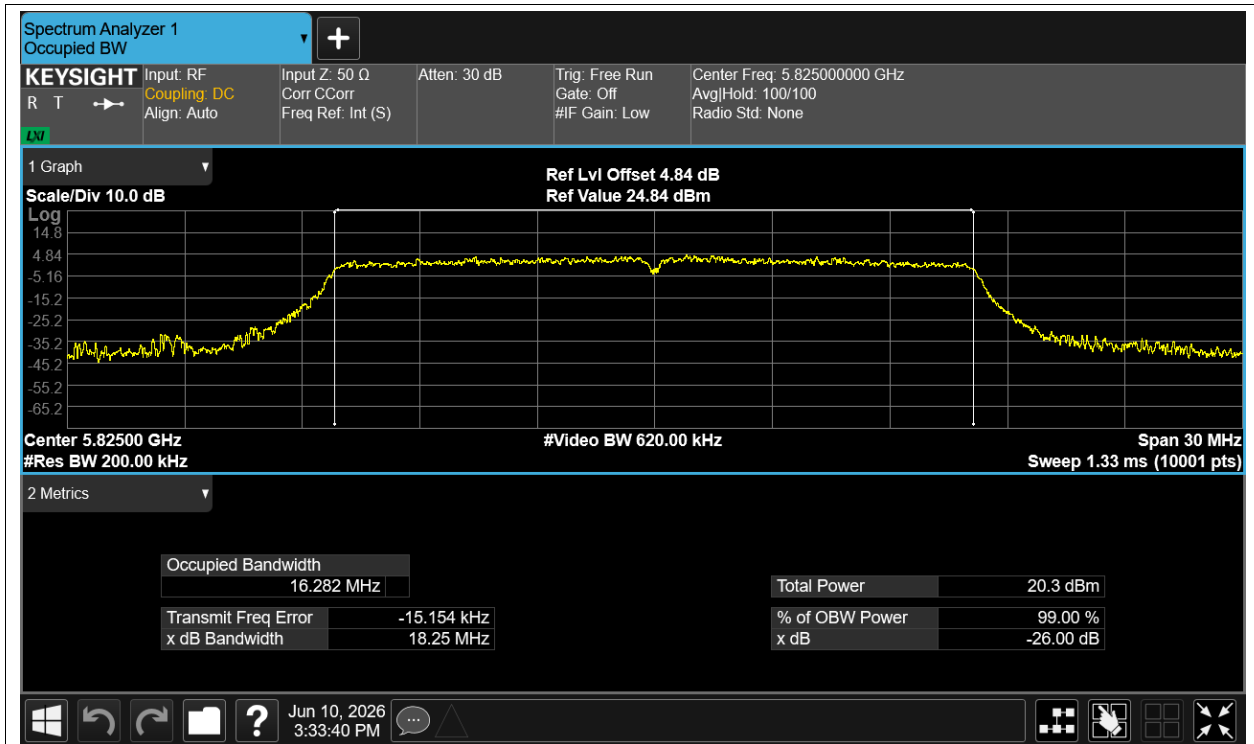
OBW NVNT a 5745MHz Ant1



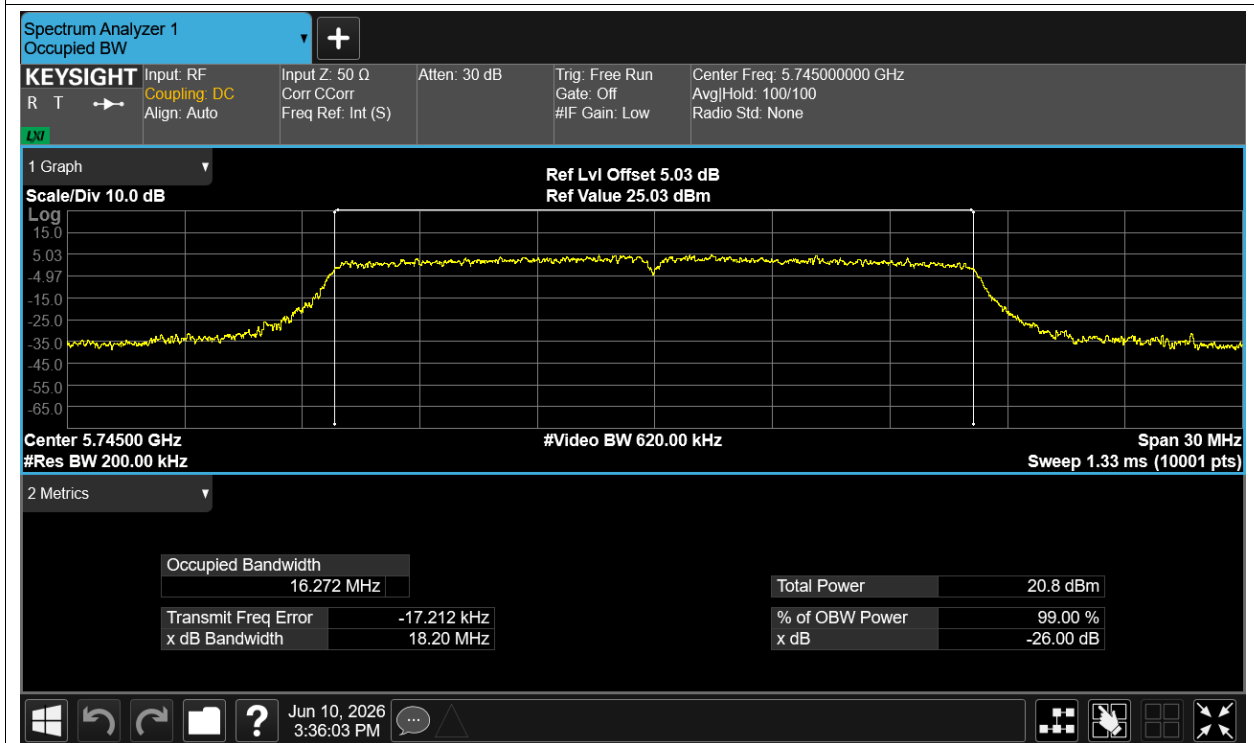
OBW NVNT a 5785MHz Ant1



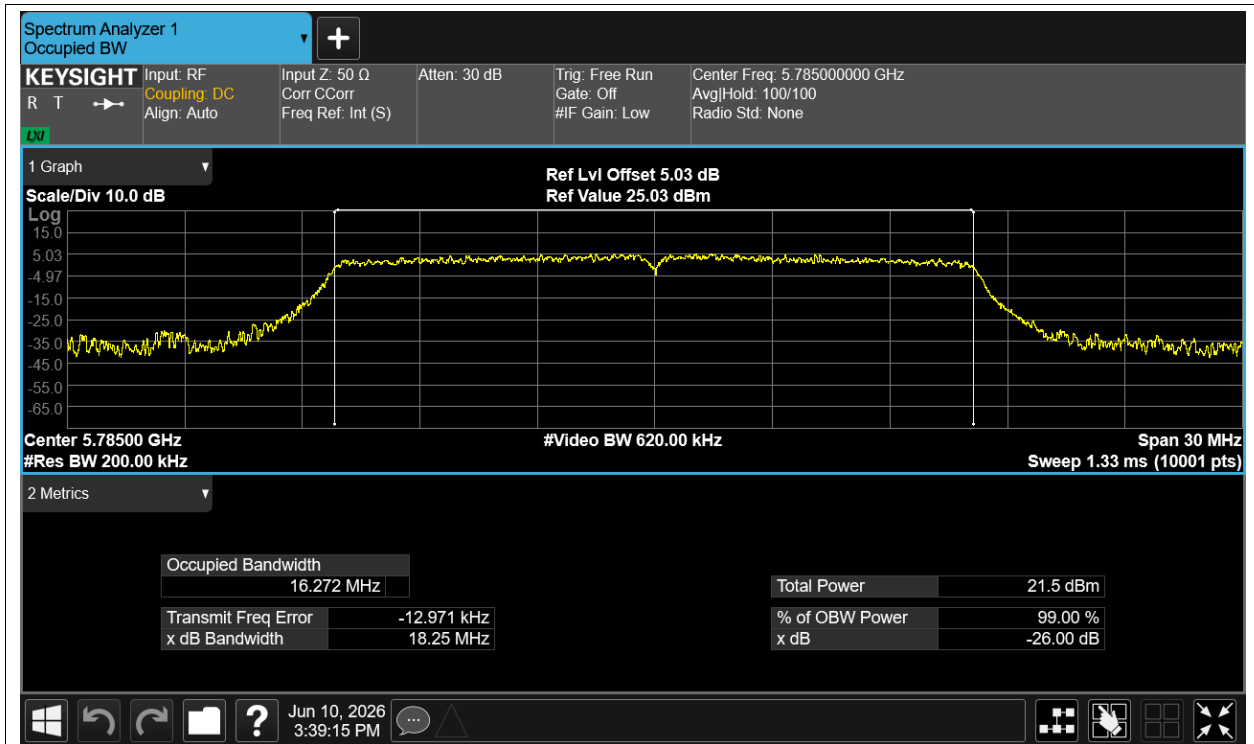
OBW NVNT a 5825MHz Ant1



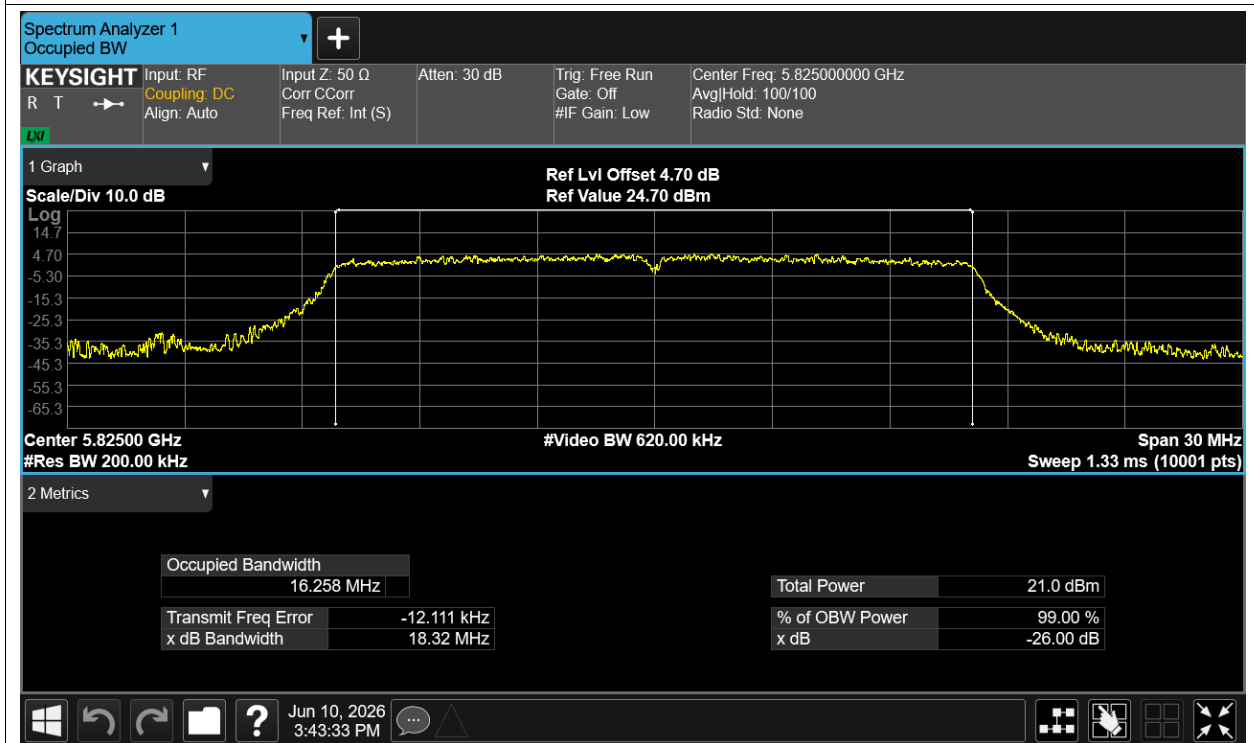
OBW NVNT a 5745MHz Ant2



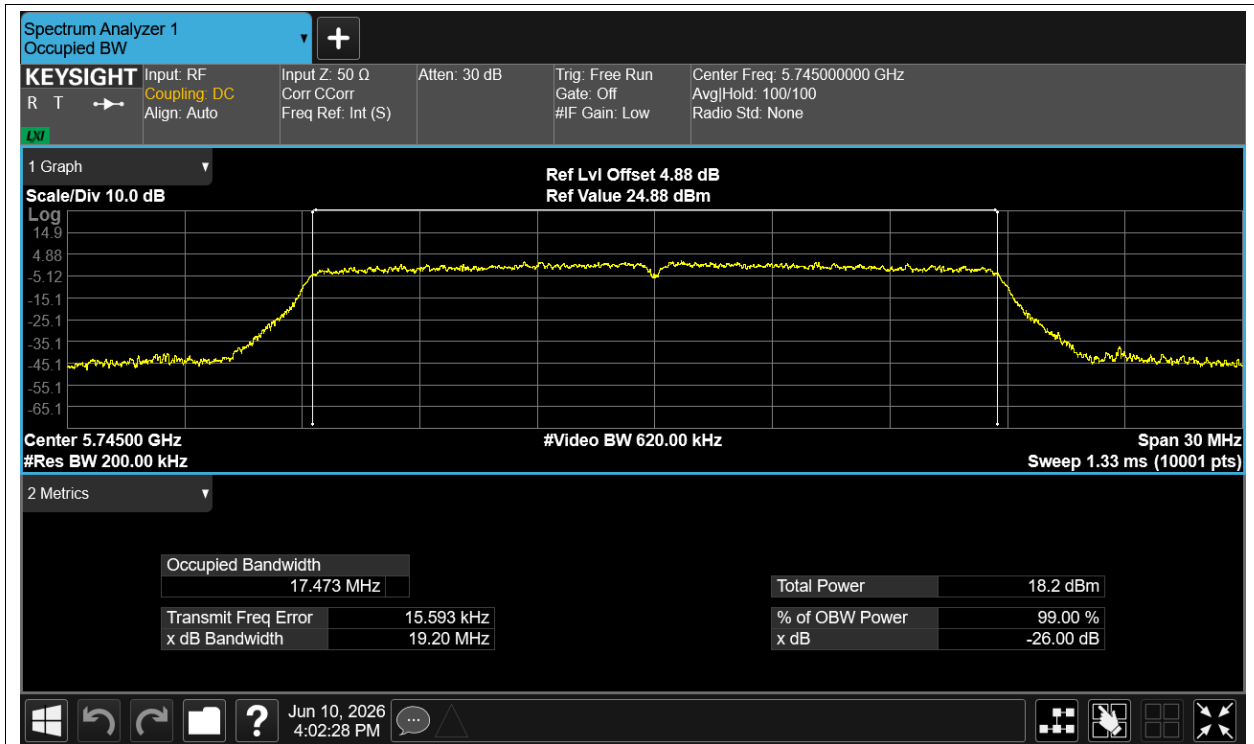
OBW NVNT a 5785MHz Ant2



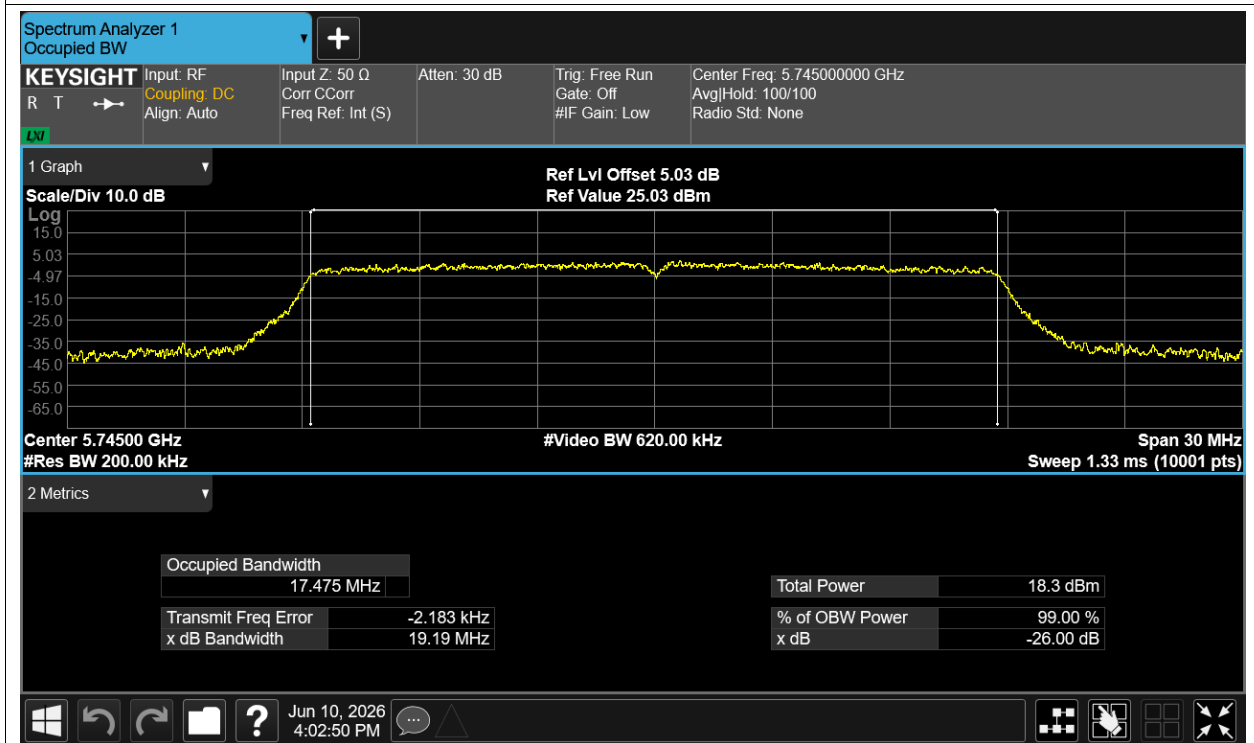
OBW NVNT a 5825MHz Ant2



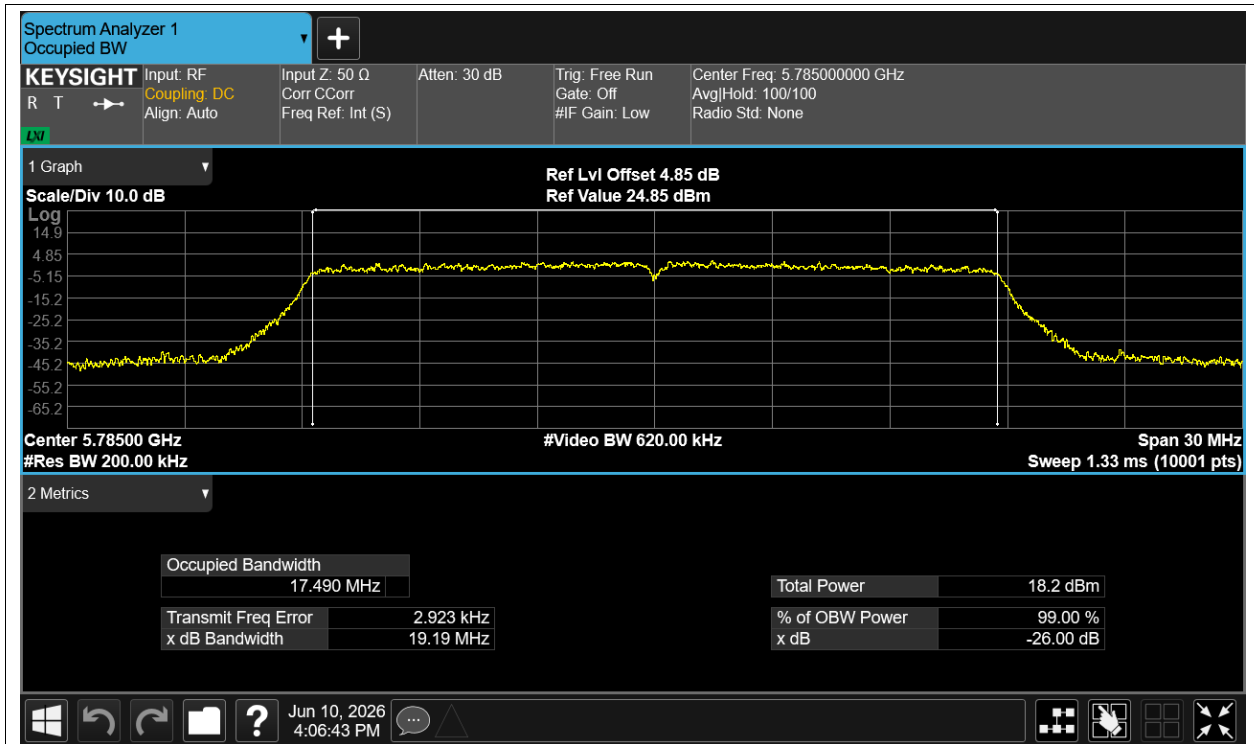
OBW NVNT ac20 5745MHz Ant1



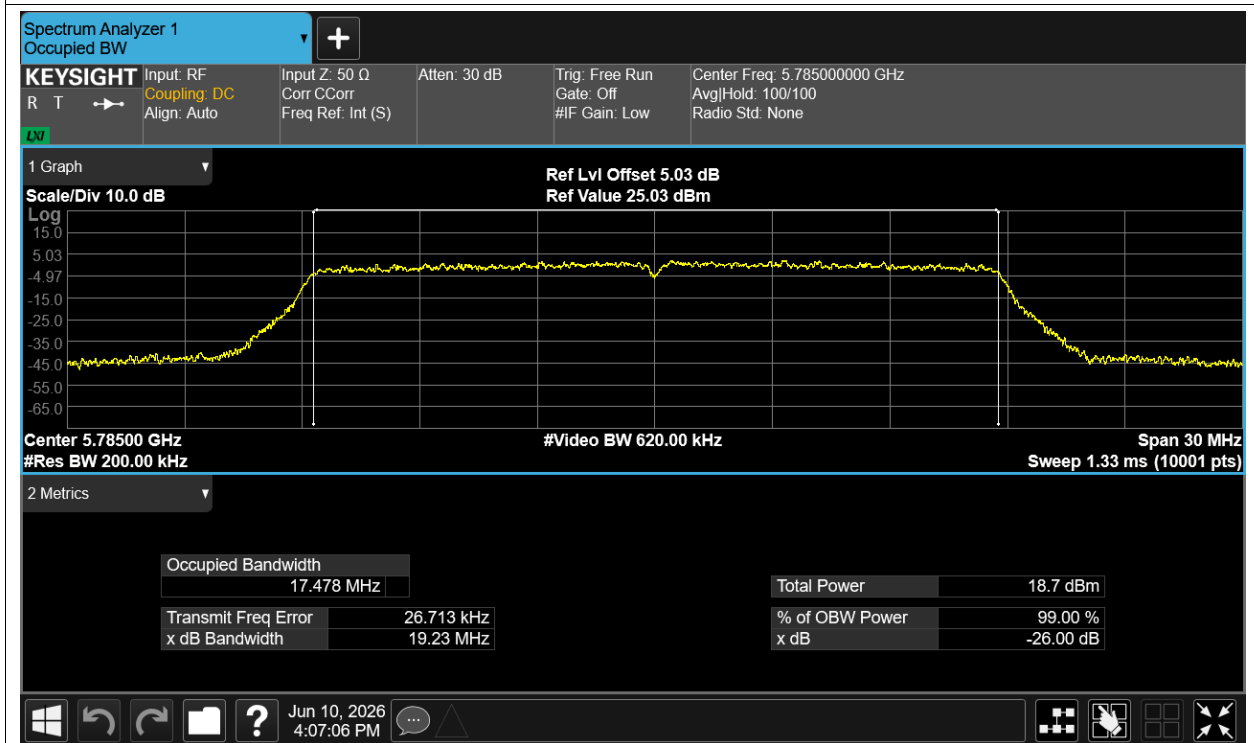
OBW NVNT ac20 5745MHz Ant2



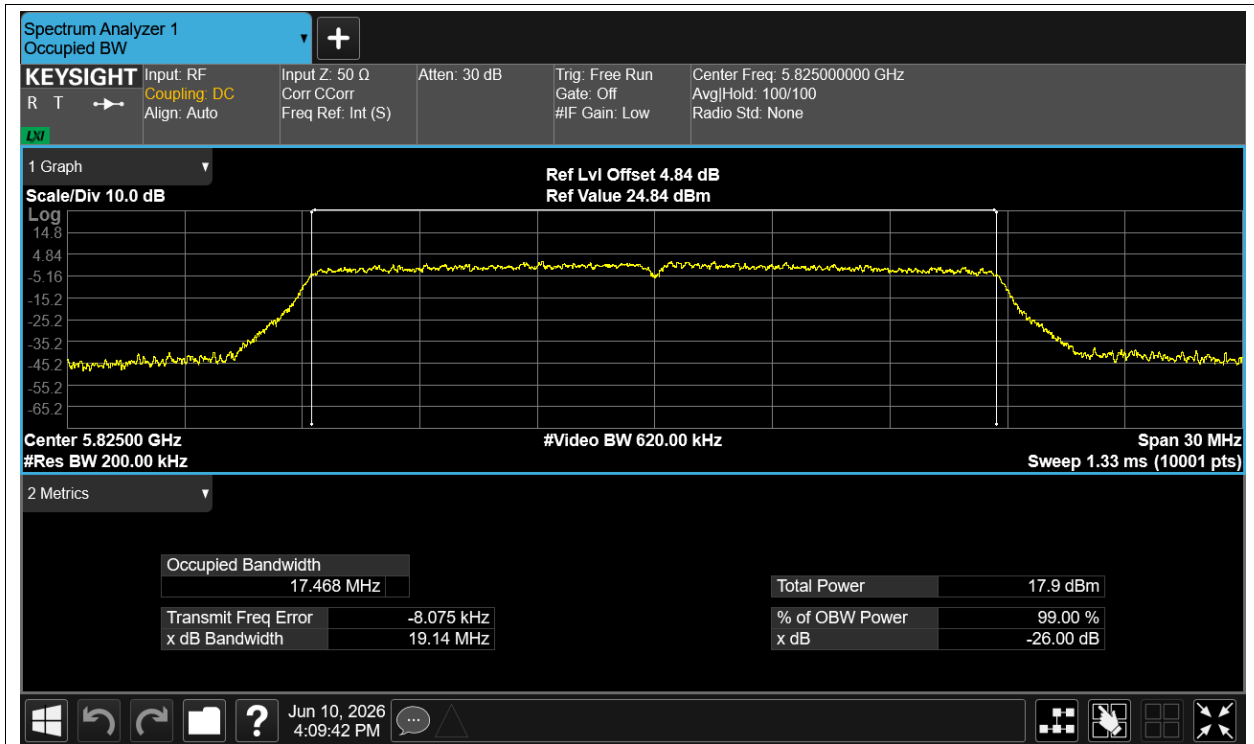
OBW NVNT ac20 5785MHz Ant1



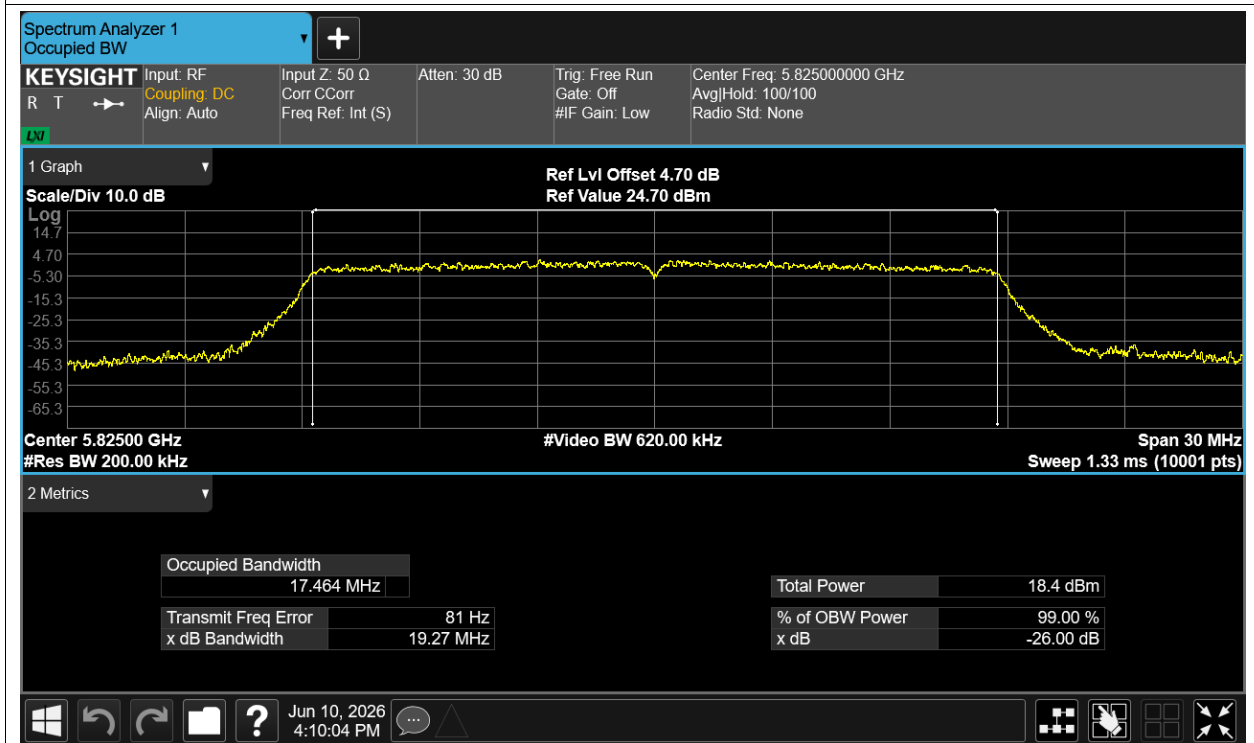
OBW NVNT ac20 5785MHz Ant2



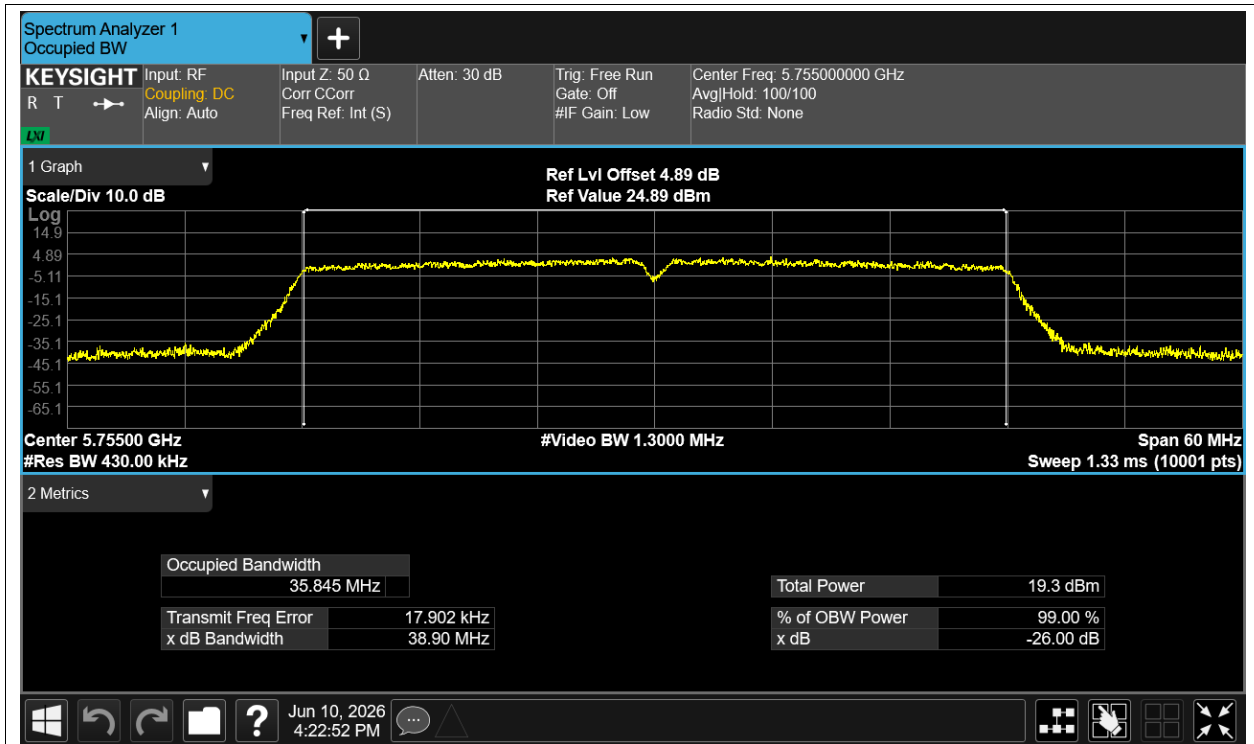
OBW NVNT ac20 5825MHz Ant1



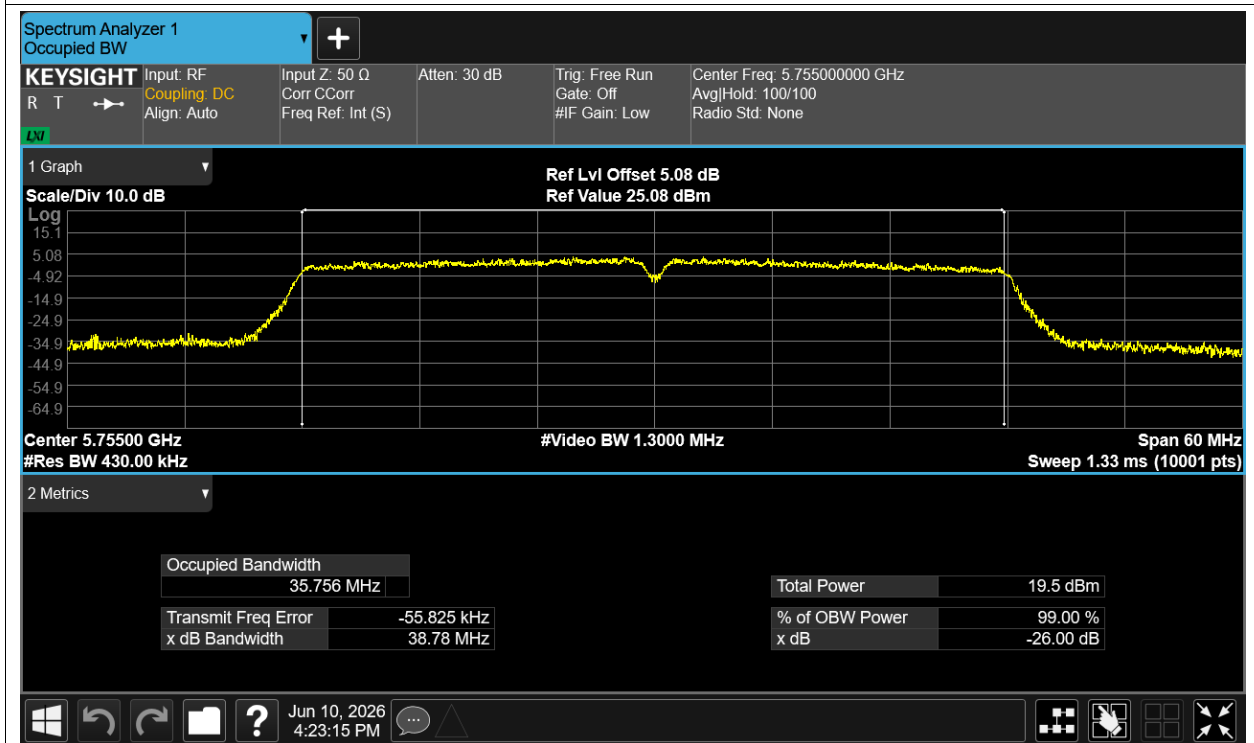
OBW NVNT ac20 5825MHz Ant2



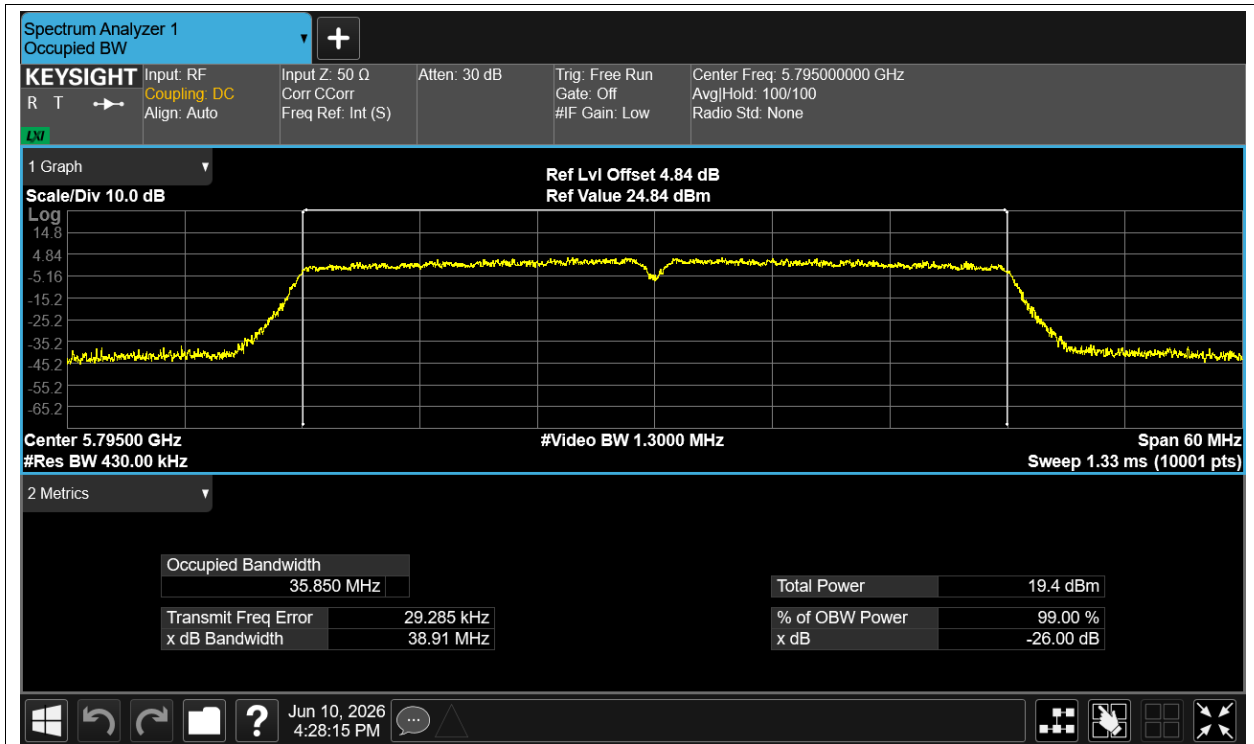
OBW NVNT ac40 5755MHz Ant1



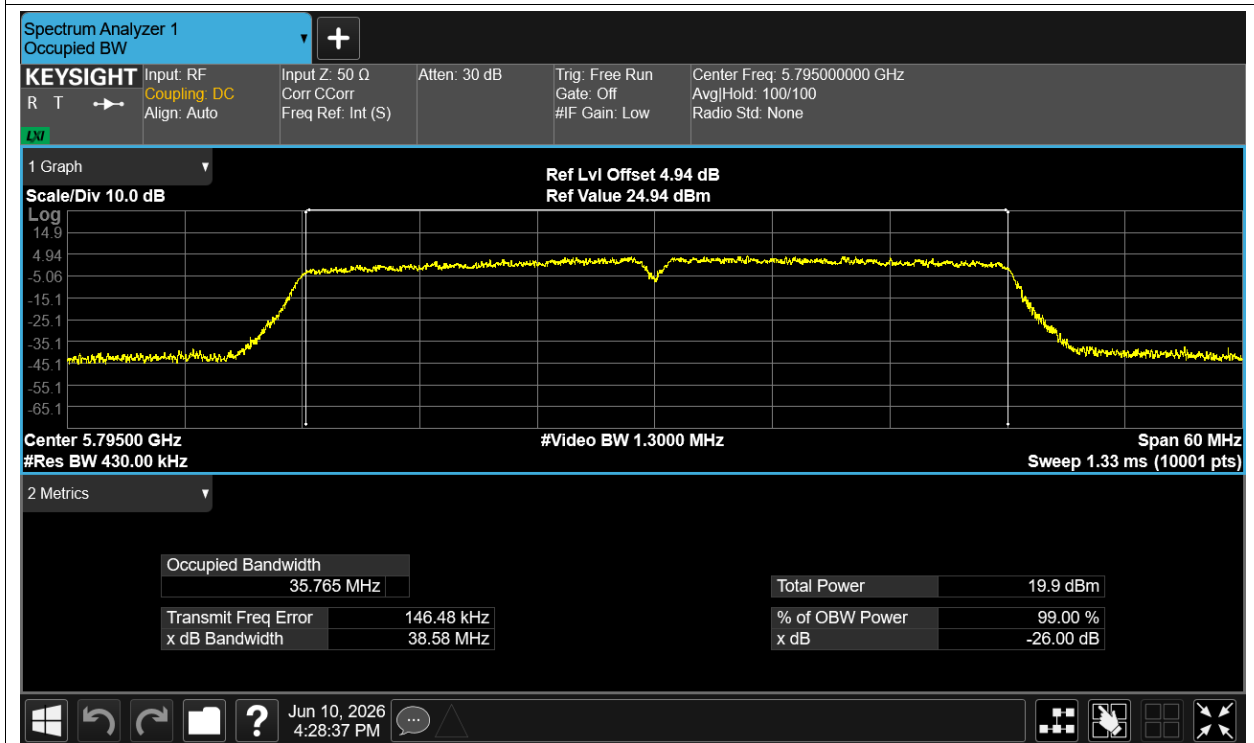
OBW NVNT ac40 5755MHz Ant2



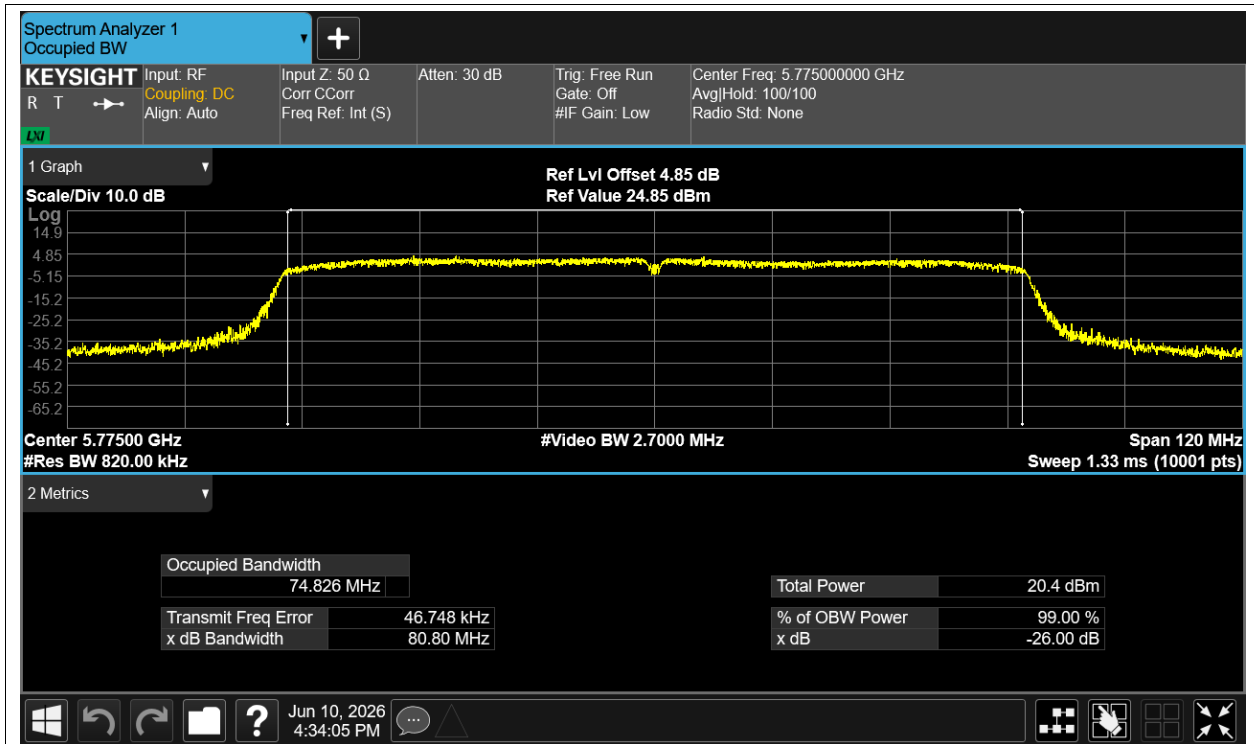
OBW NVNT ac40 5795MHz Ant1



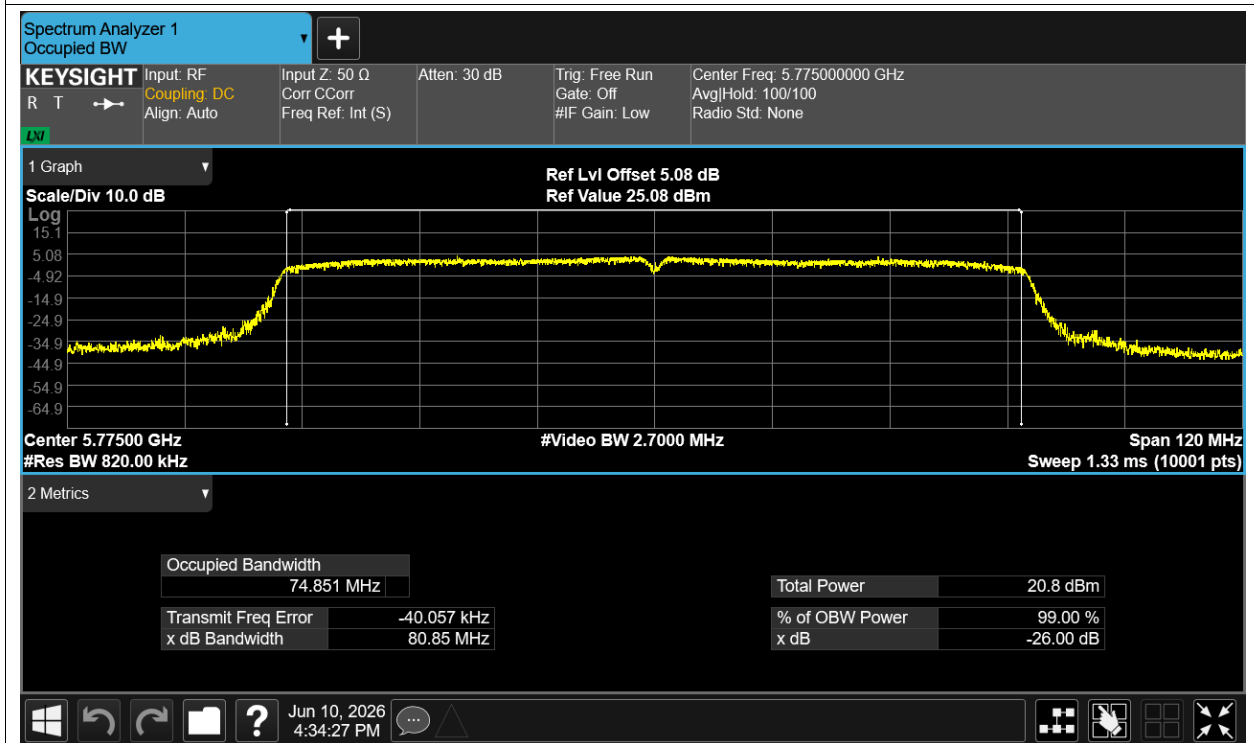
OBW NVNT ac40 5795MHz Ant2



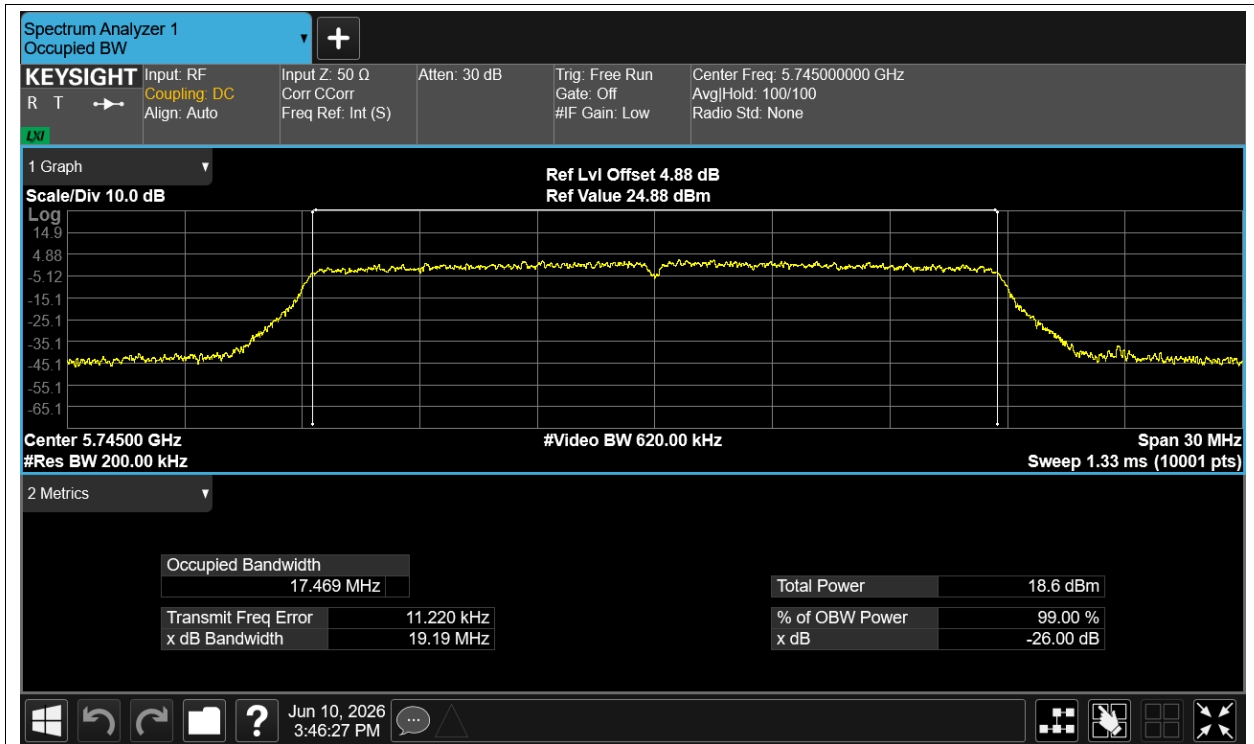
OBW NVNT ac80 5775MHz Ant1



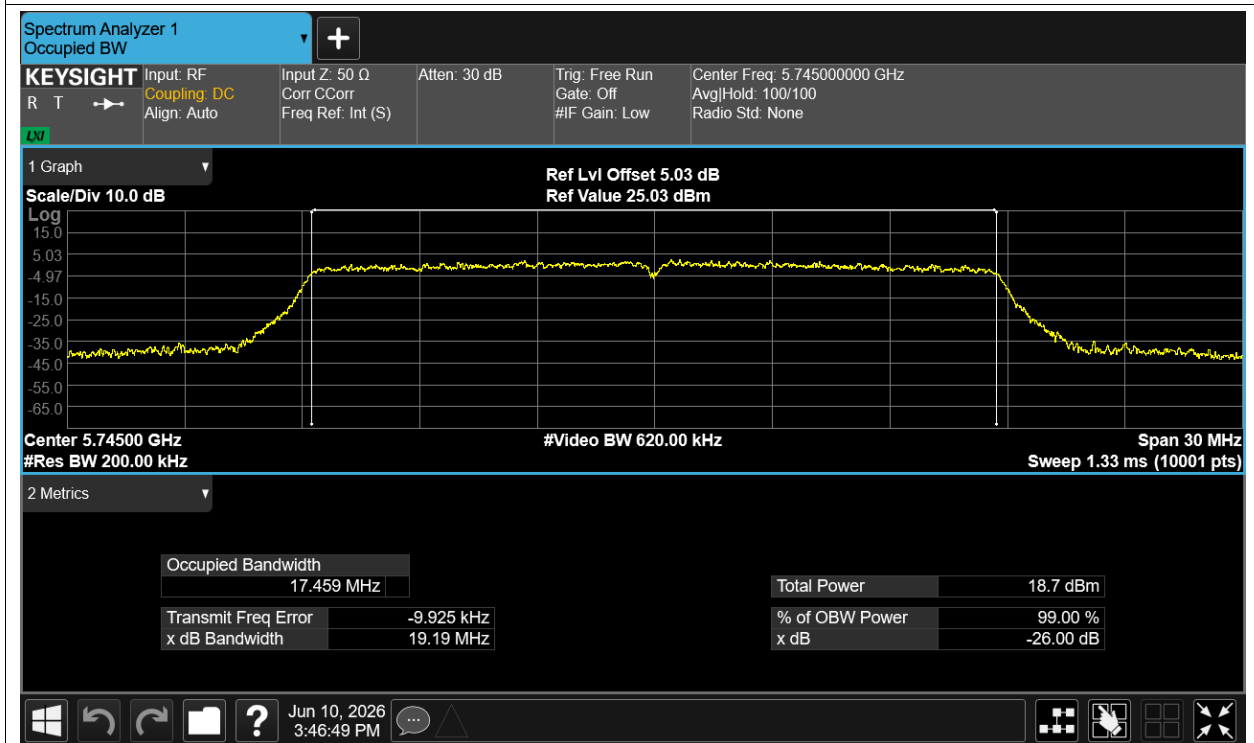
OBW NVNT ac80 5775MHz Ant2



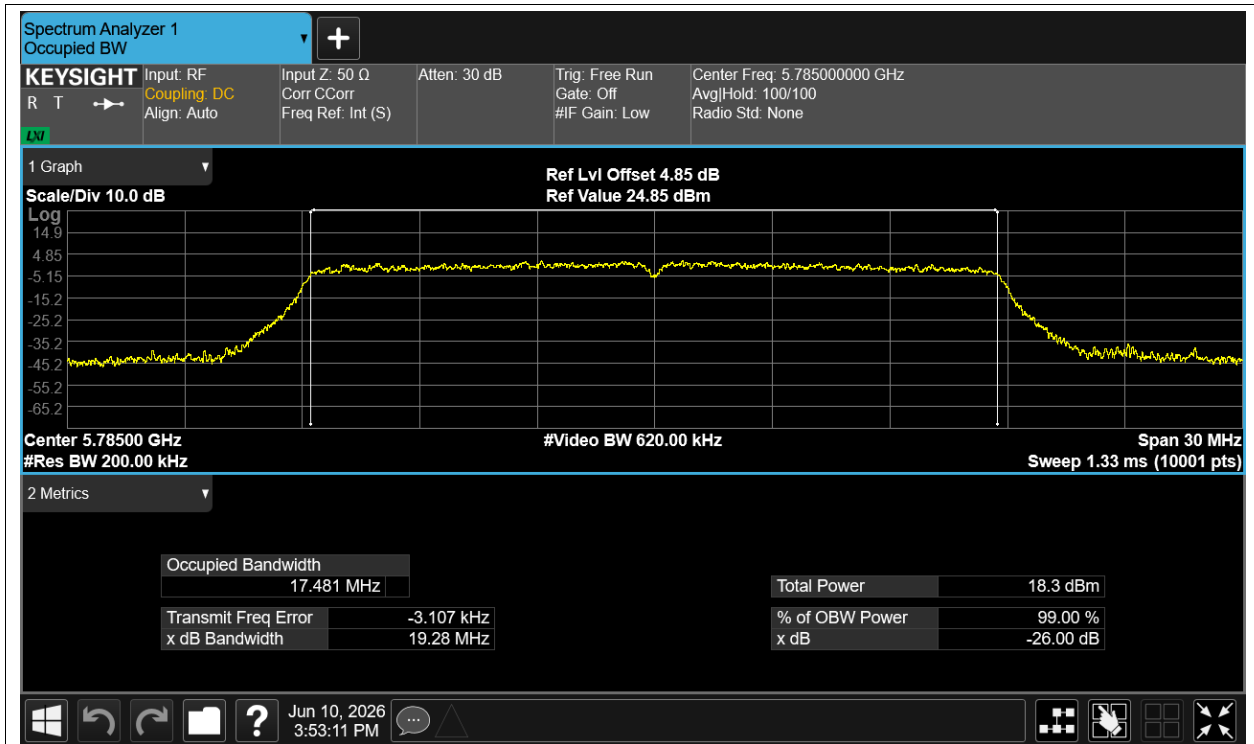
OBW NVNT n20 5745MHz Ant1



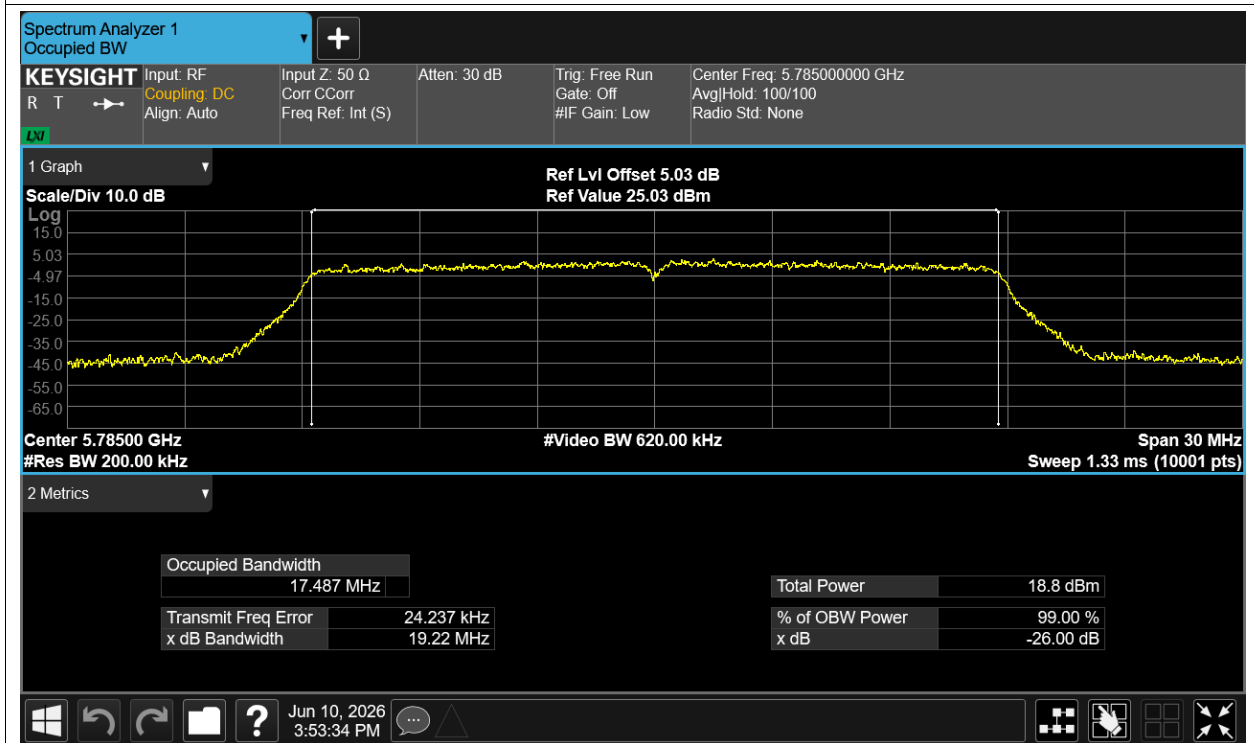
OBW NVNT n20 5745MHz Ant2



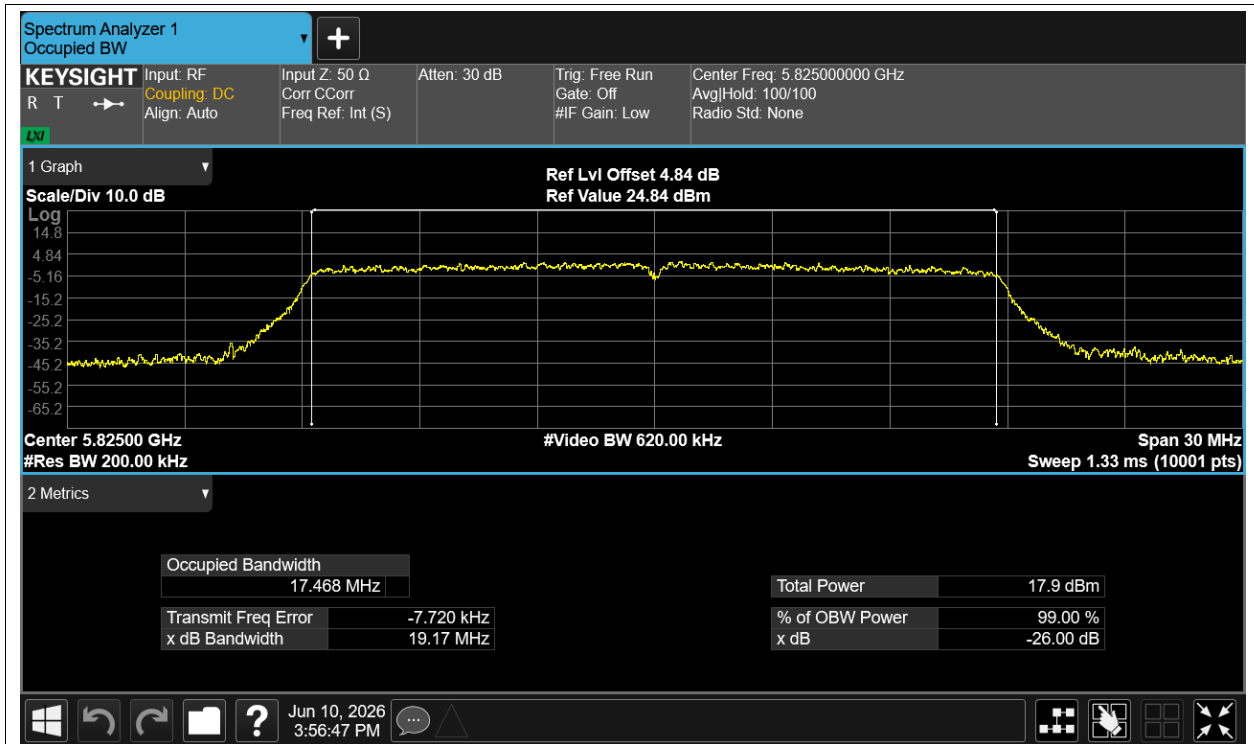
OBW NVNT n20 5785MHz Ant1



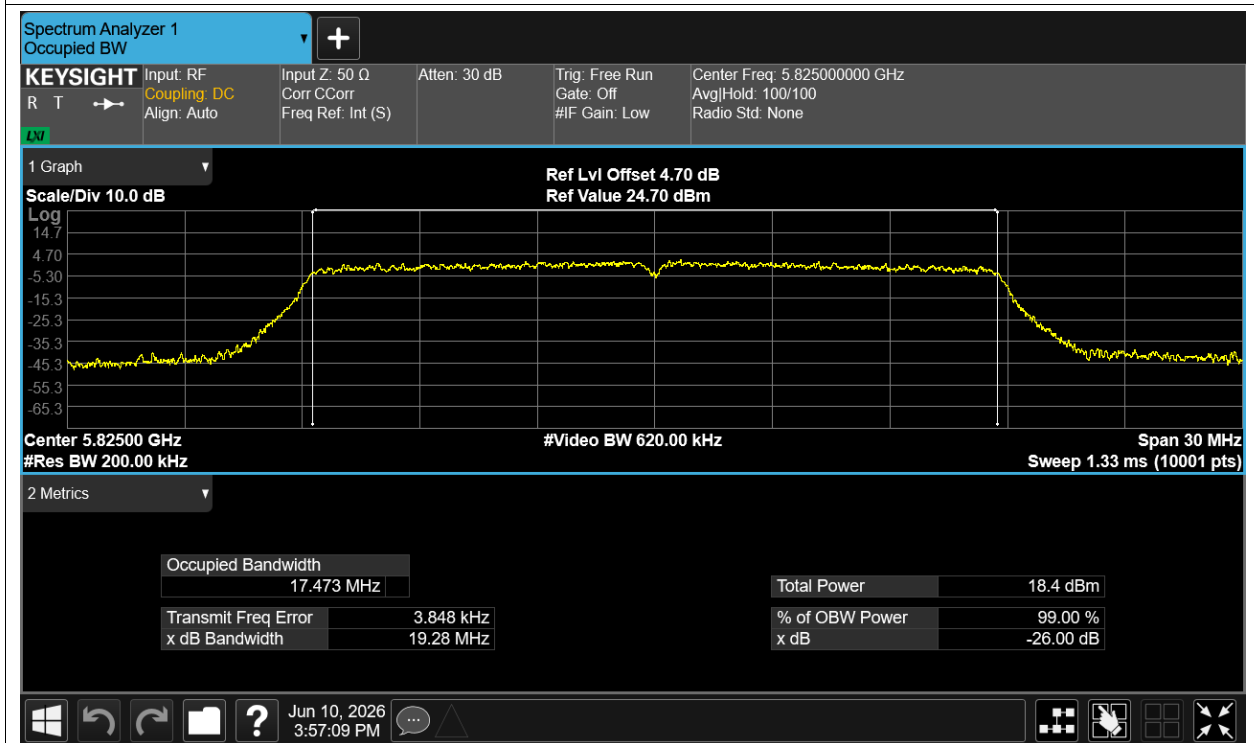
OBW NVNT n20 5785MHz Ant2



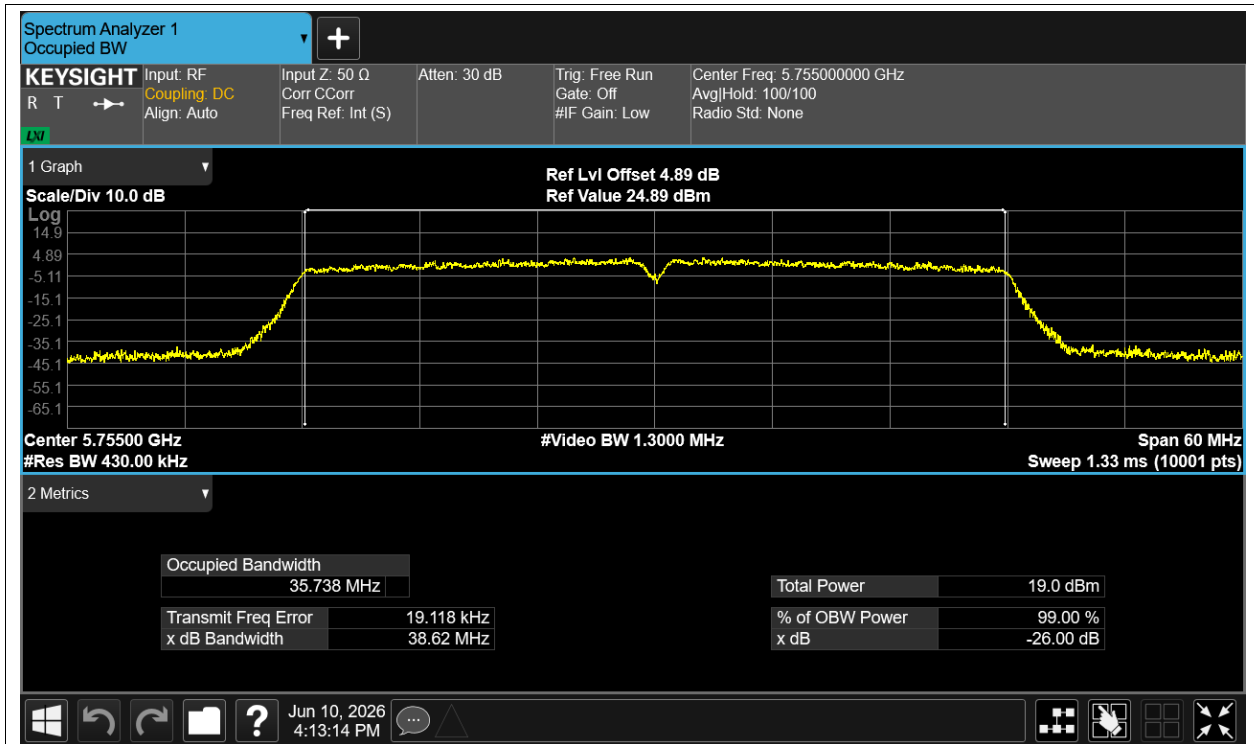
OBW NVNT n20 5825MHz Ant1



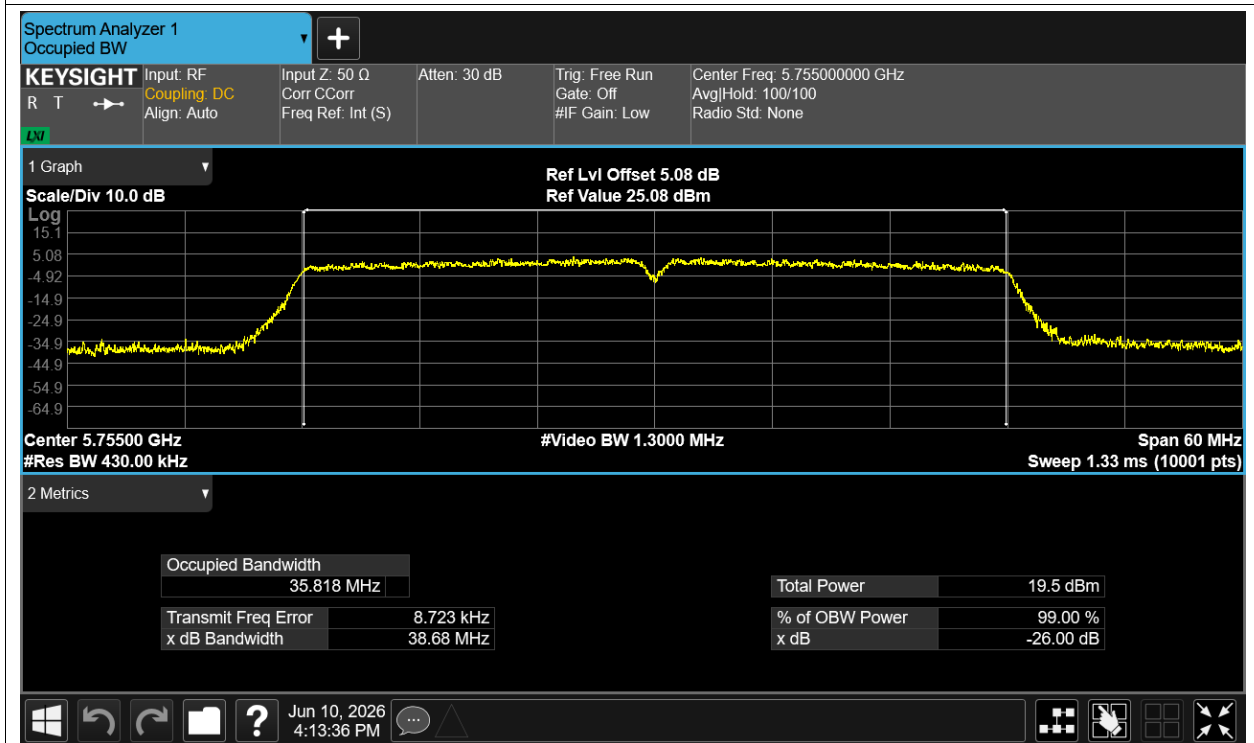
OBW NVNT n20 5825MHz Ant2



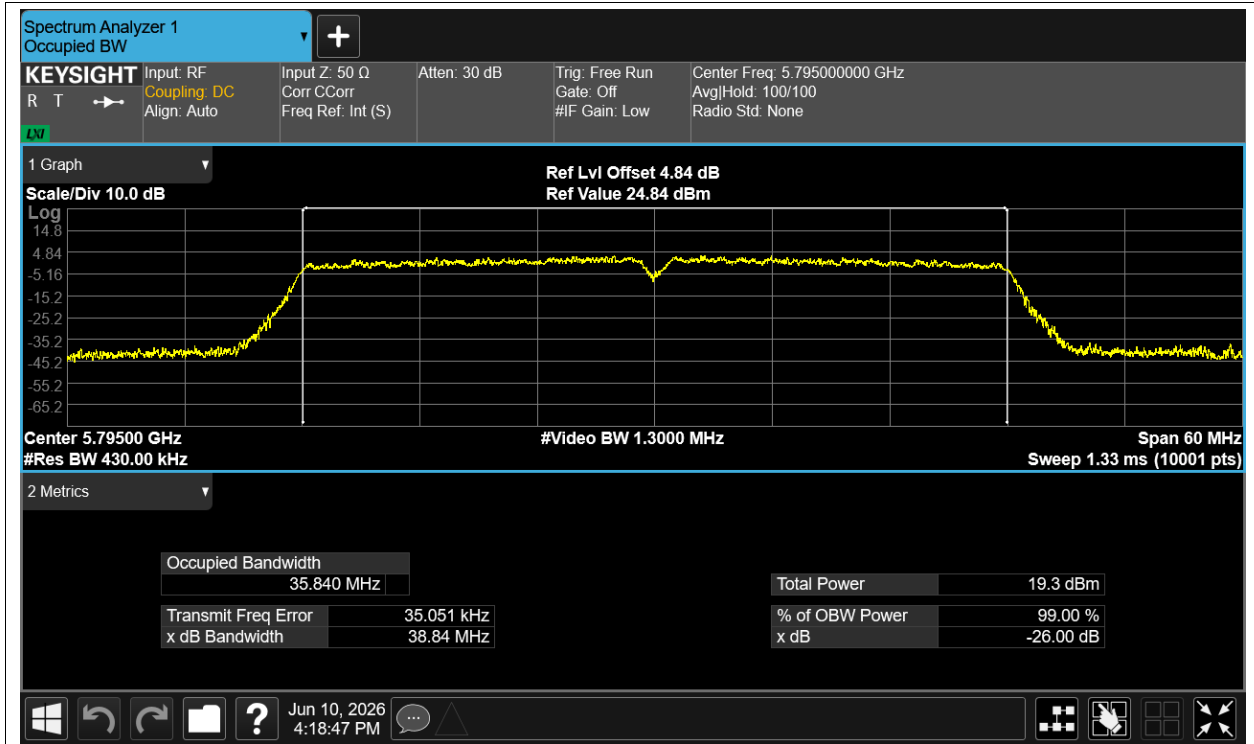
OBW NVNT n40 5755MHz Ant1



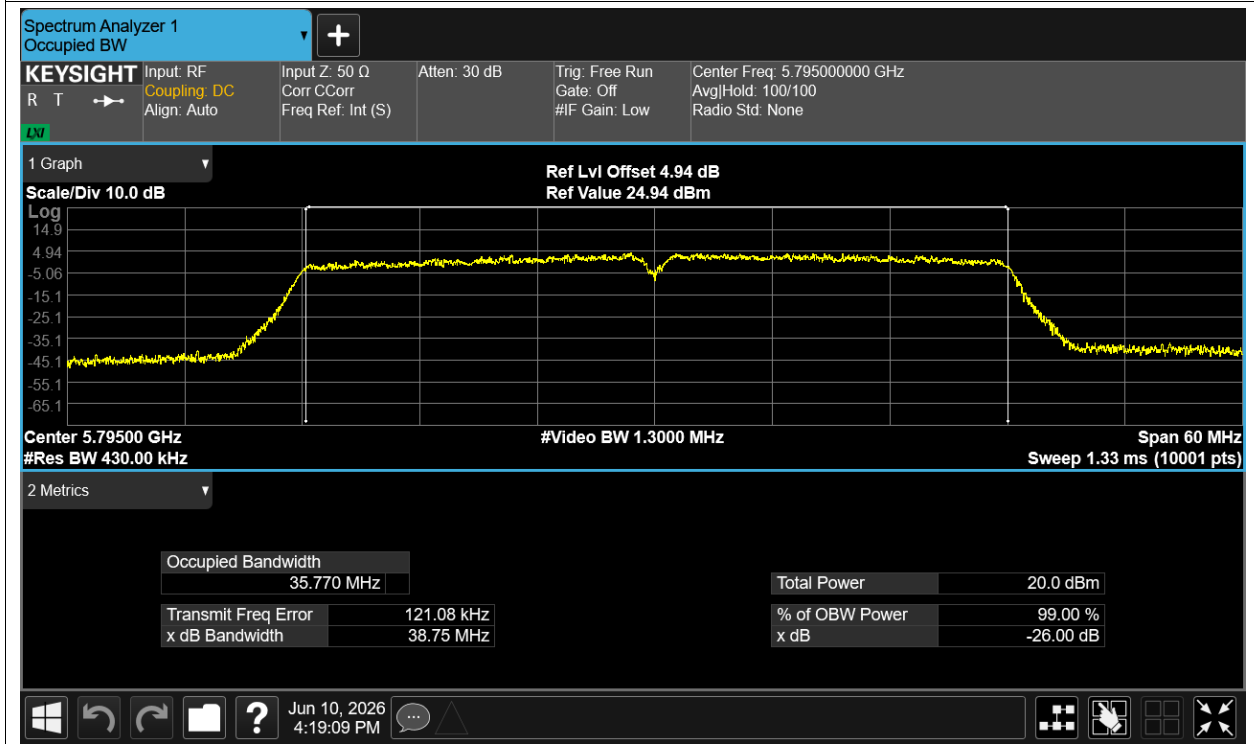
OBW NVNT n40 5755MHz Ant2



OBW NVNT n40 5795MHz Ant1



OBW NVNT n40 5795MHz Ant2



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	RBW (MHz)	Measured Factor (dB)	Duty Factor (dB)	Max PSD (dBm/470KHz)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant1	470	0.27	0	2.011	2.281	30	Pass
NVNT	a	5785	Ant1	470	0.27	0	1.972	2.242	30	Pass
NVNT	a	5825	Ant1	470	0.27	0	1.993	2.263	30	Pass
NVNT	a	5745	Ant2	470	0.27	0	2.412	2.682	30	Pass
NVNT	a	5785	Ant2	470	0.27	0	2.975	3.245	30	Pass
NVNT	a	5825	Ant2	470	0.27	0	2.584	2.854	30	Pass
NVNT	ac20	5745	Ant1	470	0.27	0	-0.454	-0.184	28.27	Pass
NVNT	ac20	5745	Ant2	470	0.27	0	-0.282	-0.012	28.27	Pass
NVNT	ac20	5745	Sum	470	0.27	0	2.643	2.913	28.27	Pass
NVNT	ac20	5785	Ant1	470	0.27	0	-0.351	-0.081	28.27	Pass
NVNT	ac20	5785	Ant2	470	0.27	0	0.055	0.325	28.27	Pass
NVNT	ac20	5785	Sum	470	0.27	0	2.867	3.137	28.27	Pass
NVNT	ac20	5825	Ant1	470	0.27	0	-0.674	-0.404	28.27	Pass
NVNT	ac20	5825	Ant2	470	0.27	0	-0.216	0.054	28.27	Pass
NVNT	ac20	5825	Sum	470	0.27	0	2.571	2.841	28.27	Pass
NVNT	ac40	5755	Ant1	470	0.27	0	-2.782	-2.512	28.27	Pass
NVNT	ac40	5755	Ant2	470	0.27	0	-2.338	-2.068	28.27	Pass
NVNT	ac40	5755	Sum	470	0.27	0	0.456	0.726	28.27	Pass
NVNT	ac40	5795	Ant1	470	0.27	0	-2.467	-2.197	28.27	Pass
NVNT	ac40	5795	Ant2	470	0.27	0	-1.807	-1.537	28.27	Pass
NVNT	ac40	5795	Sum	470	0.27	0	0.886	1.156	28.27	Pass
NVNT	ac80	5775	Ant1	470	0.27	0	-6.179	-5.909	28.27	Pass
NVNT	ac80	5775	Ant2	470	0.27	0	-5.316	-5.046	28.27	Pass
NVNT	ac80	5775	Sum	470	0.27	0	-2.716	-2.446	28.27	Pass
NVNT	n20	5745	Ant1	470	0.27	0	-0.176	0.094	28.27	Pass
NVNT	n20	5745	Ant2	470	0.27	0	-0.03	0.24	28.27	Pass
NVNT	n20	5745	Sum	470	0.27	0	2.908	3.178	28.27	Pass
NVNT	n20	5785	Ant1	470	0.27	0	-0.537	-0.267	28.27	Pass
NVNT	n20	5785	Ant2	470	0.27	0	0.077	0.347	28.27	Pass
NVNT	n20	5785	Sum	470	0.27	0	2.791	3.061	28.27	Pass
NVNT	n20	5825	Ant1	470	0.27	0	-0.925	-0.655	28.27	Pass
NVNT	n20	5825	Ant2	470	0.27	0	-0.191	0.079	28.27	Pass
NVNT	n20	5825	Sum	470	0.27	0	2.468	2.738	28.27	Pass
NVNT	n40	5755	Ant1	470	0.27	0	-2.674	-2.404	28.27	Pass
NVNT	n40	5755	Ant2	470	0.27	0	-2.245	-1.975	28.27	Pass
NVNT	n40	5755	Sum	470	0.27	0	0.556	0.826	28.27	Pass
NVNT	n40	5795	Ant1	470	0.27	0	-2.594	-2.324	28.27	Pass
NVNT	n40	5795	Ant2	470	0.27	0	-1.703	-1.433	28.27	Pass
NVNT	n40	5795	Sum	470	0.27	0	0.885	1.155	28.27	Pass

Note: Note: 1.Total PSD (dBm) = Conducted PSD (dBm) + Measure Factor + Duty Factor,

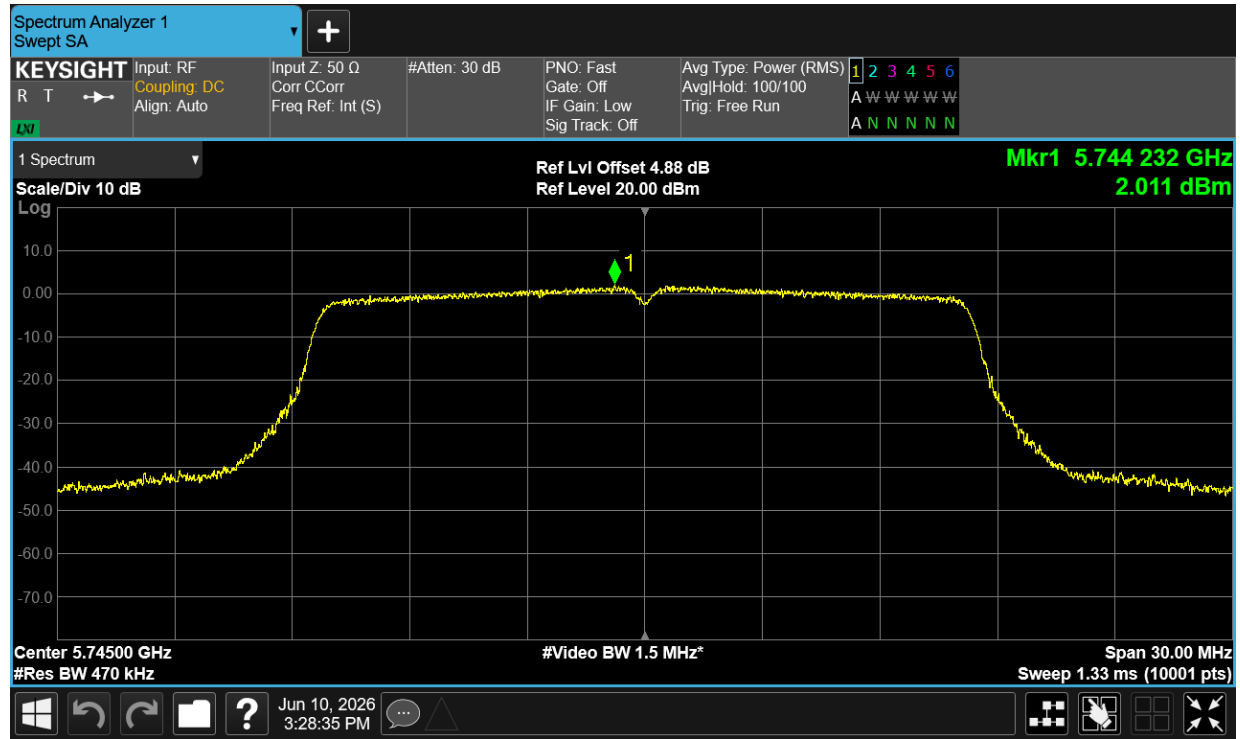
Measured Factor= $10 \log (MBW/RBW)$, MBW=500 KHz.

2. The limits need reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

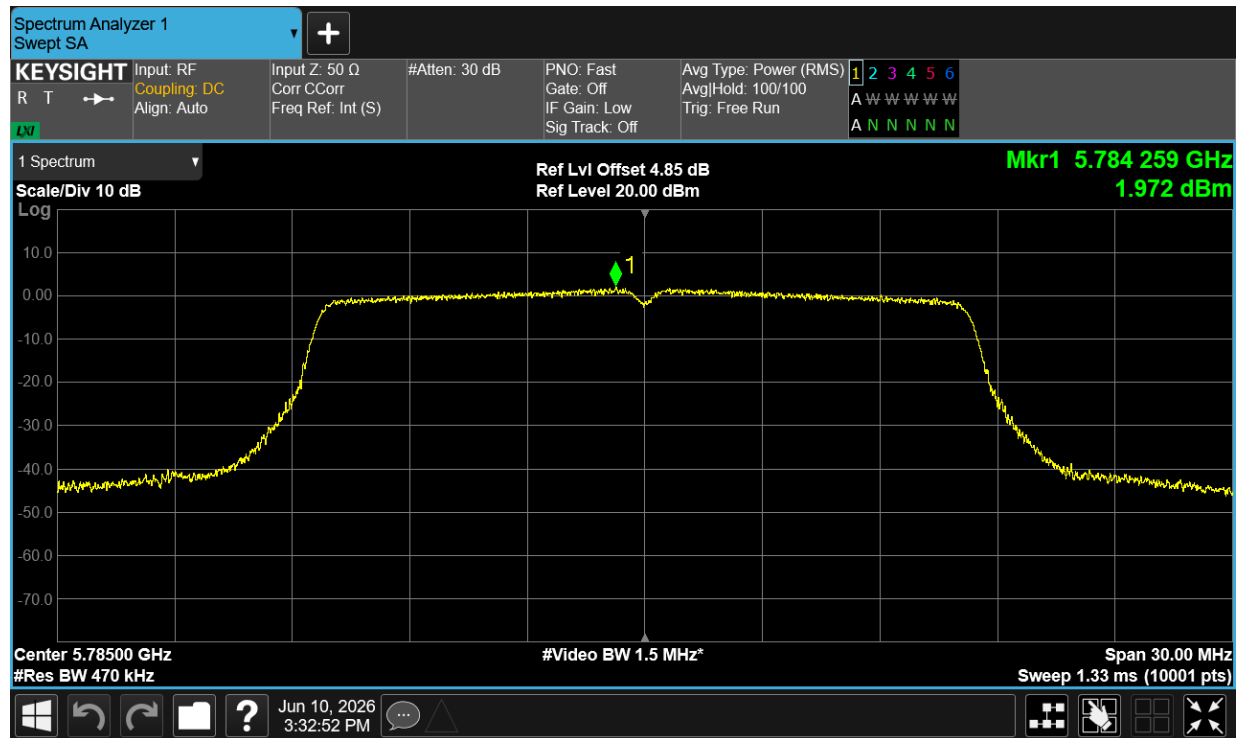
For MIMO mode: ant gain is $4.72+10*\log_{10}(2) = 4.72+3.01=7.73$ dBi, the limit is $30-(7.73-6) = 28.27$ dbm.

Test Graphs

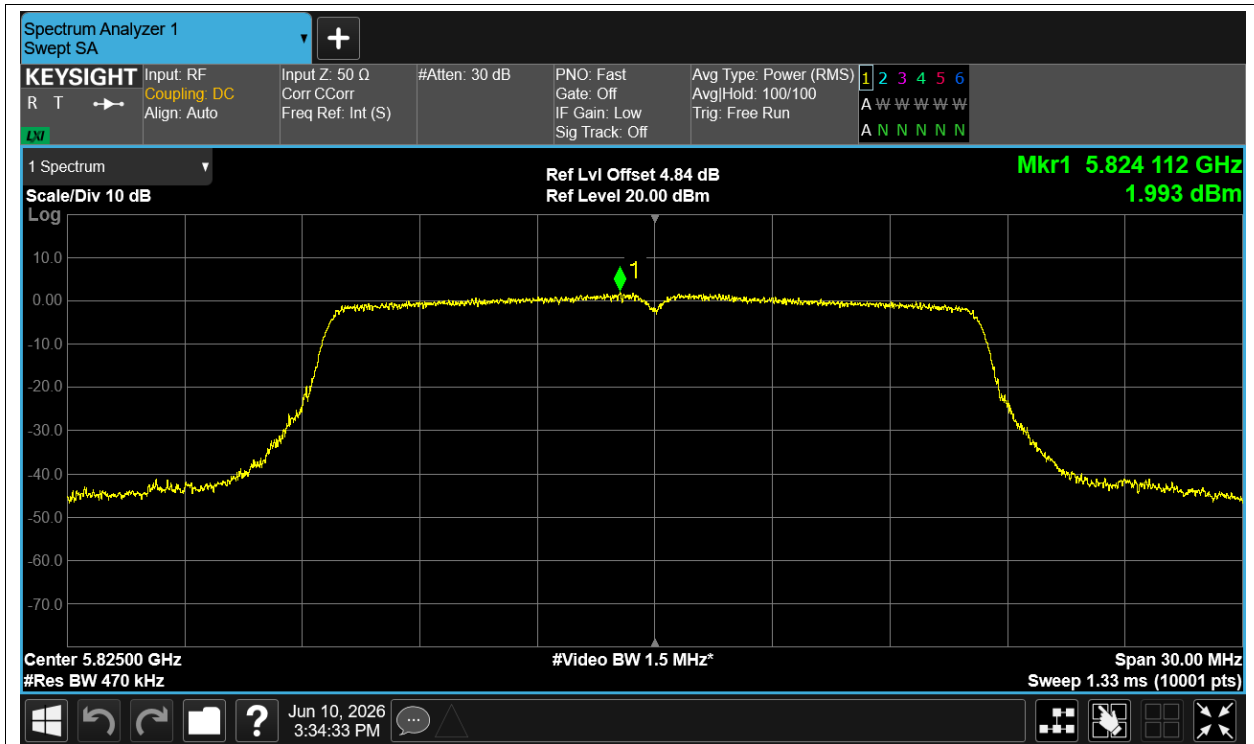
PSD NVNT a 5745MHz Ant1



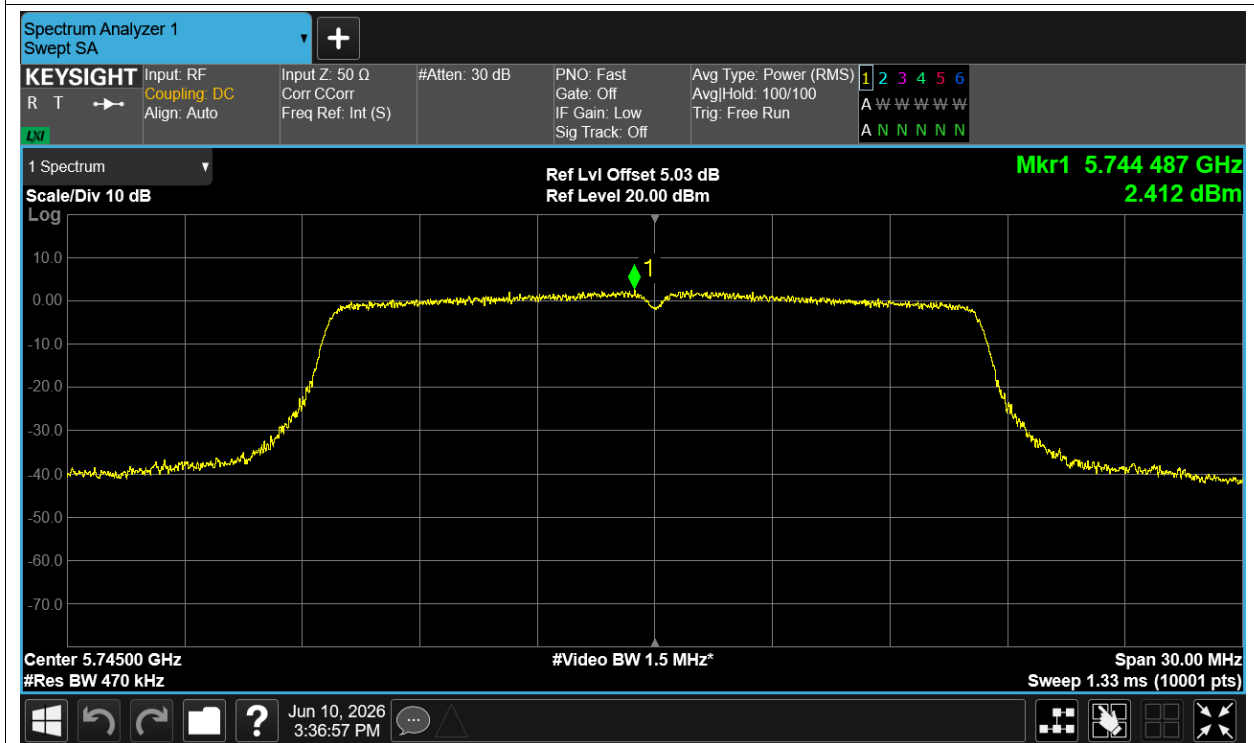
PSD NVNT a 5785MHz Ant1



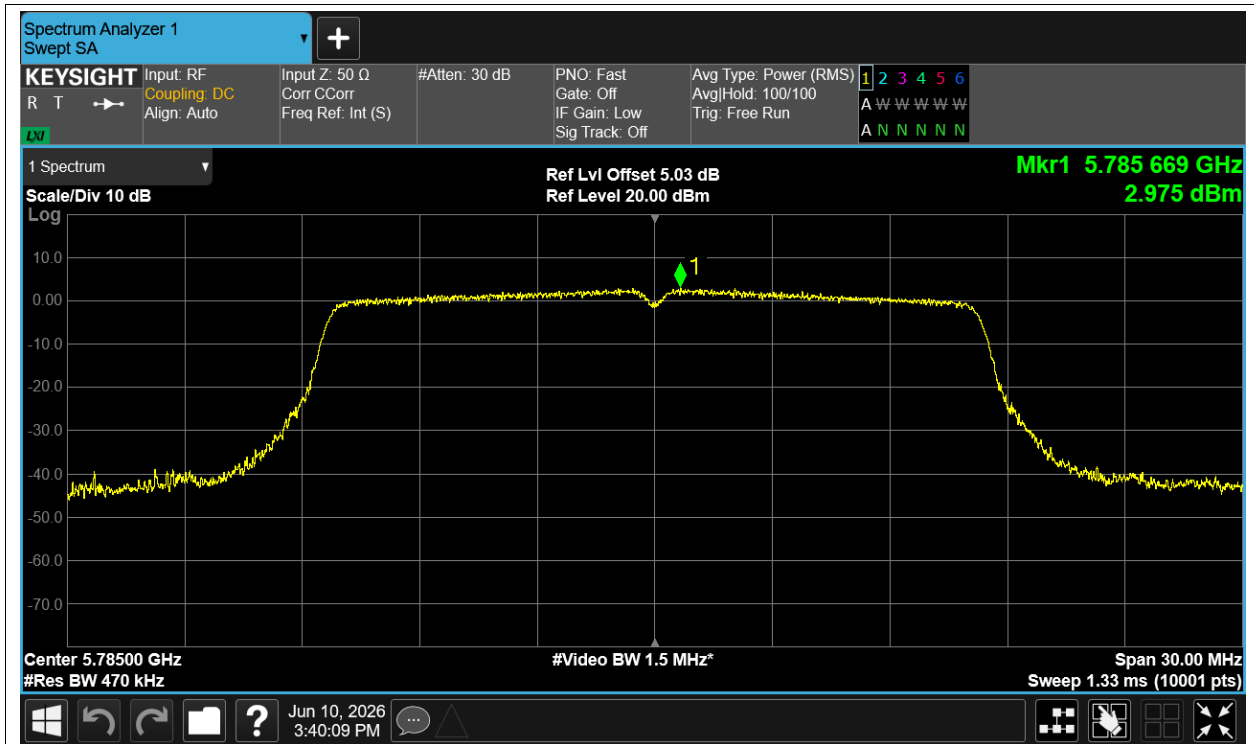
PSD NVNT a 5825MHz Ant1



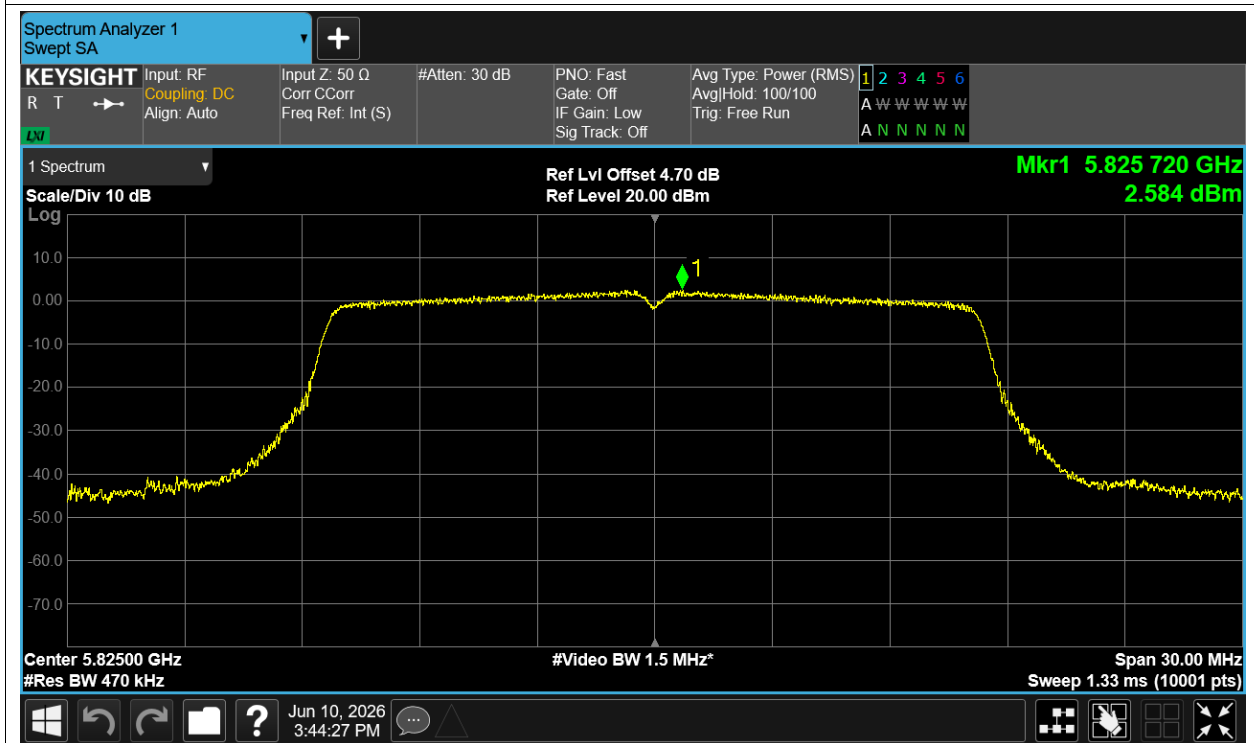
PSD NVNT a 5745MHz Ant2



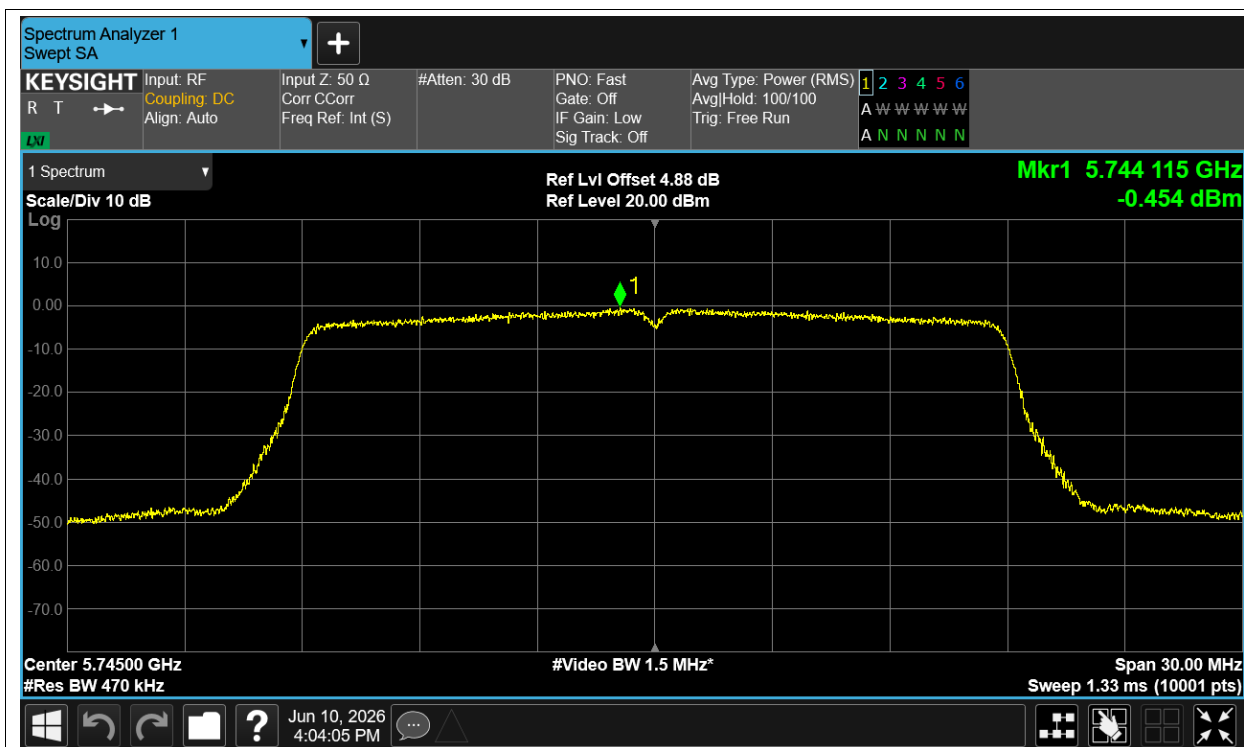
PSD NVNT a 5785MHz Ant2



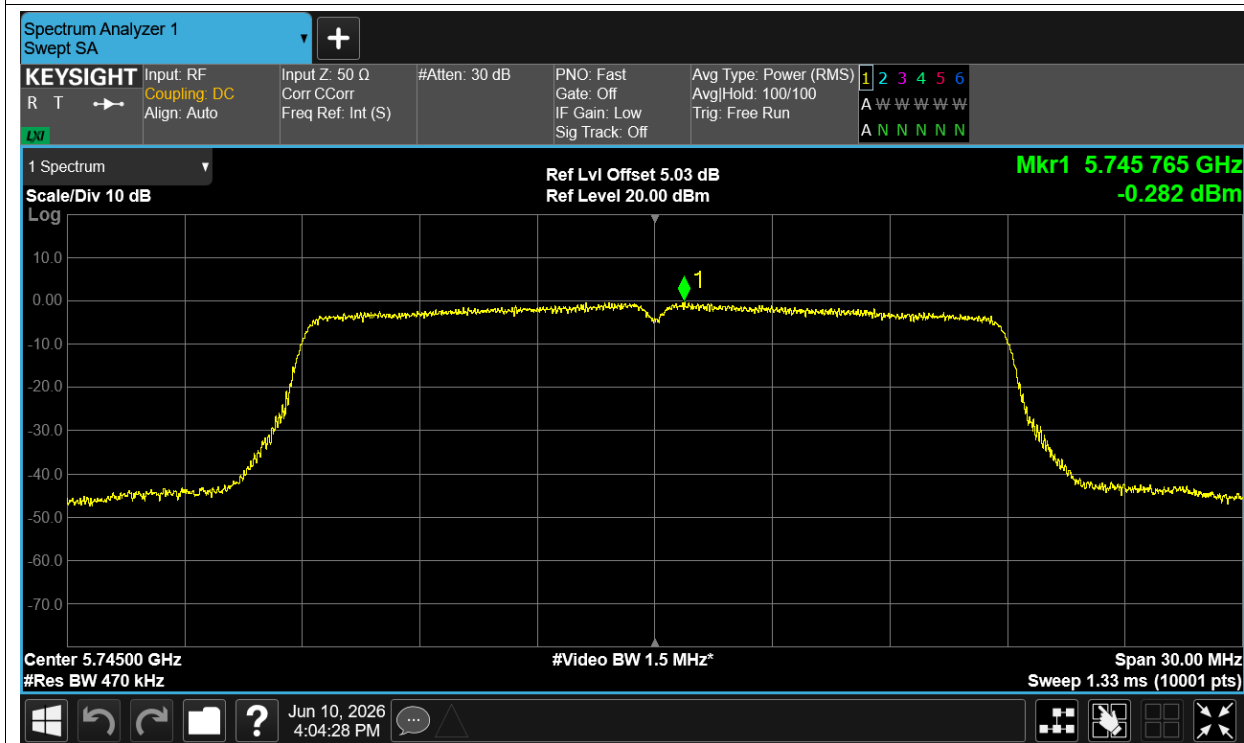
PSD NVNT a 5825MHz Ant2



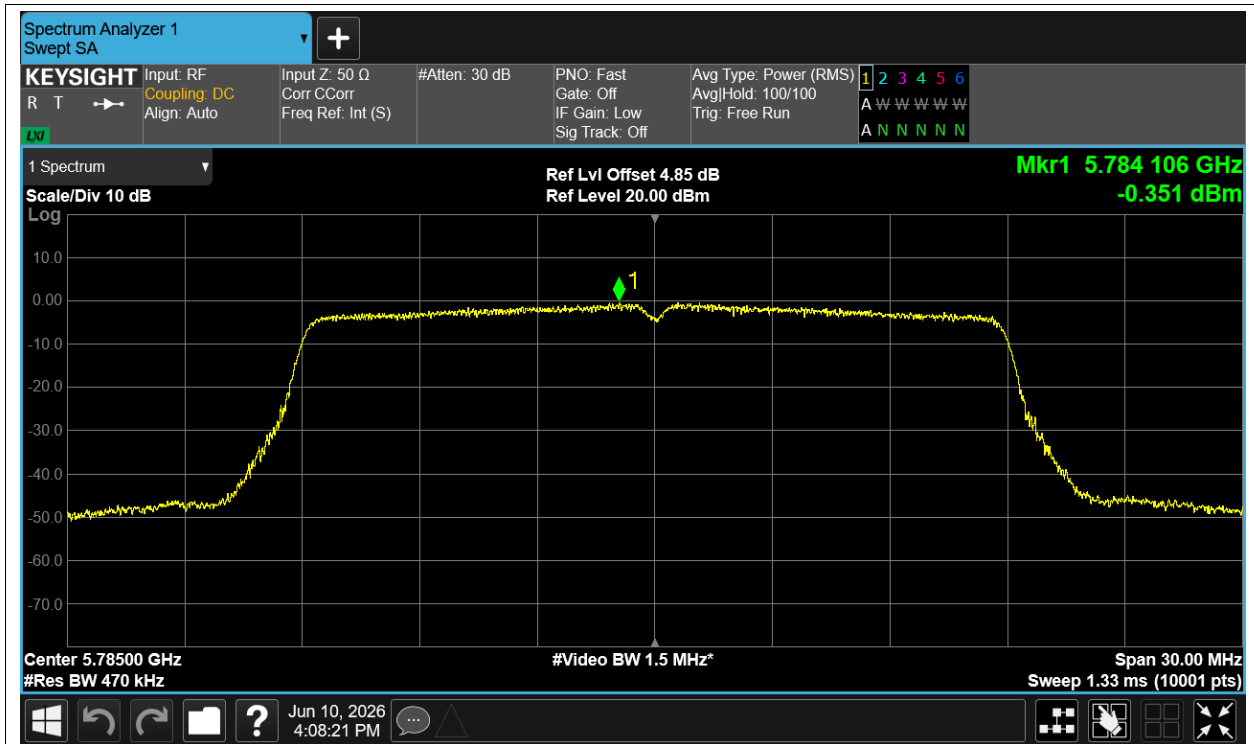
PSD NVNT ac20 5745MHz Ant1



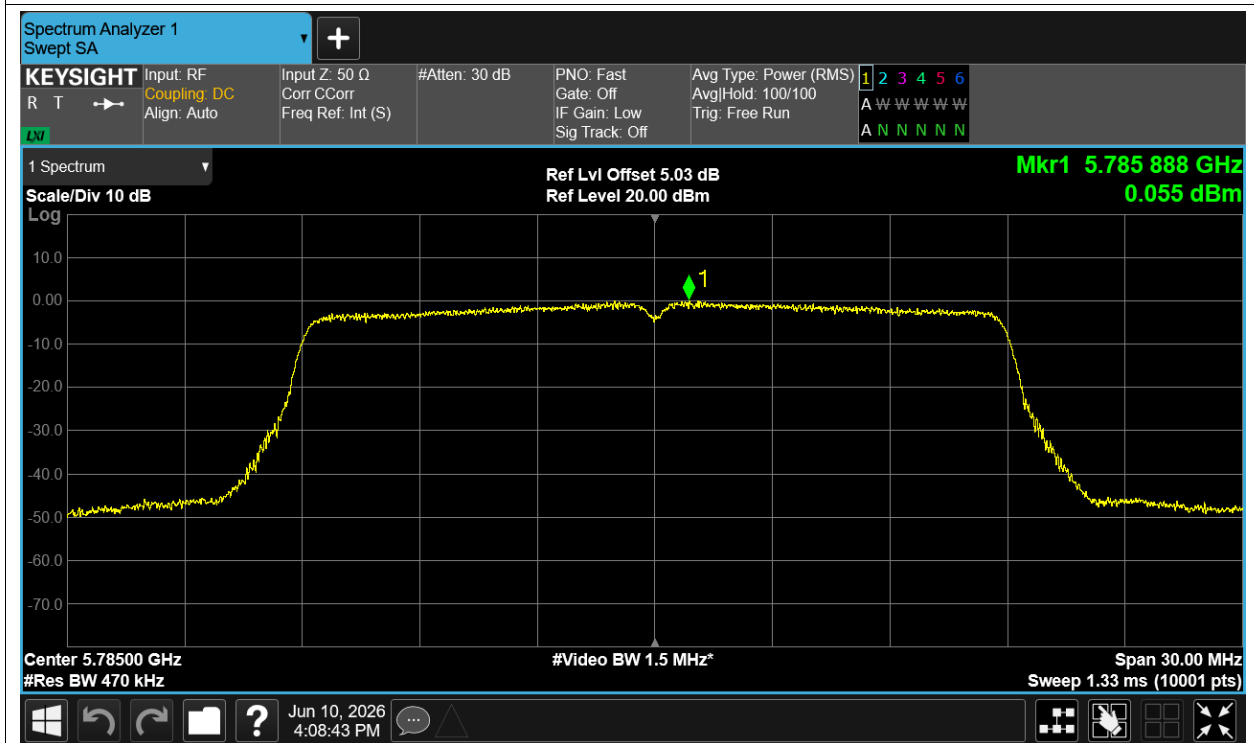
PSD NVNT ac20 5745MHz Ant2



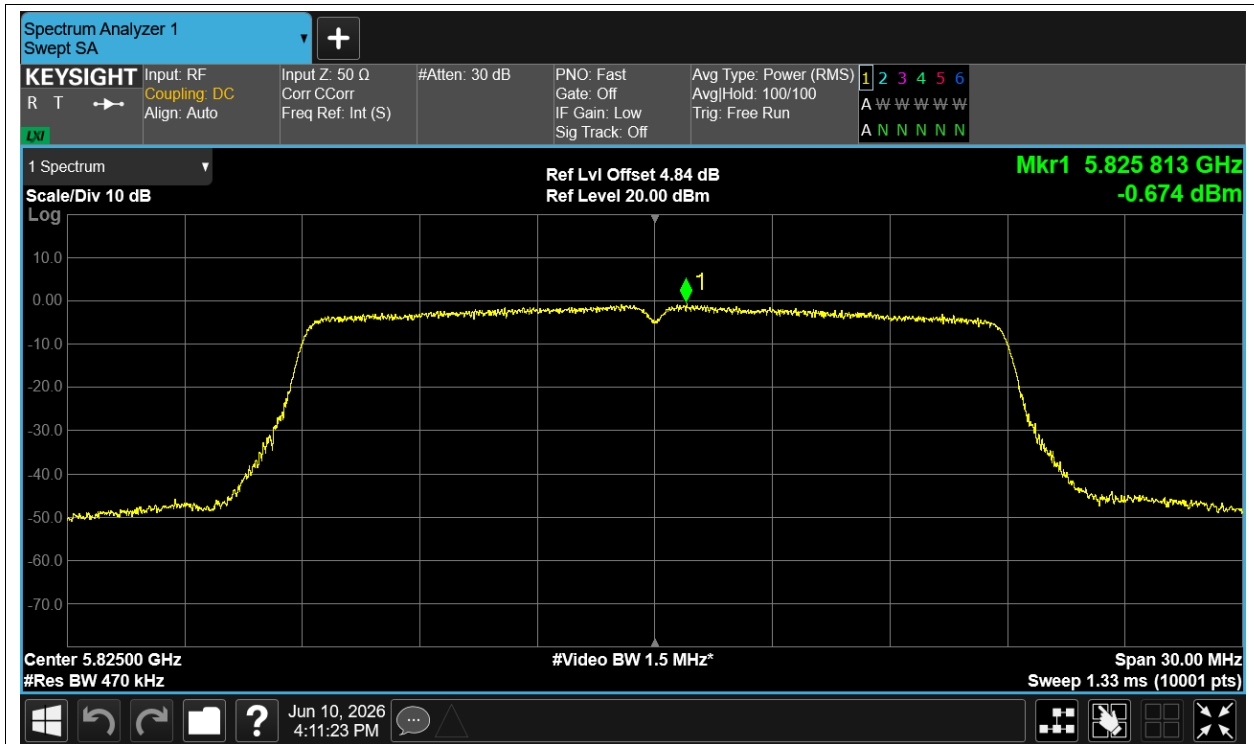
PSD NVNT ac20 5785MHz Ant1



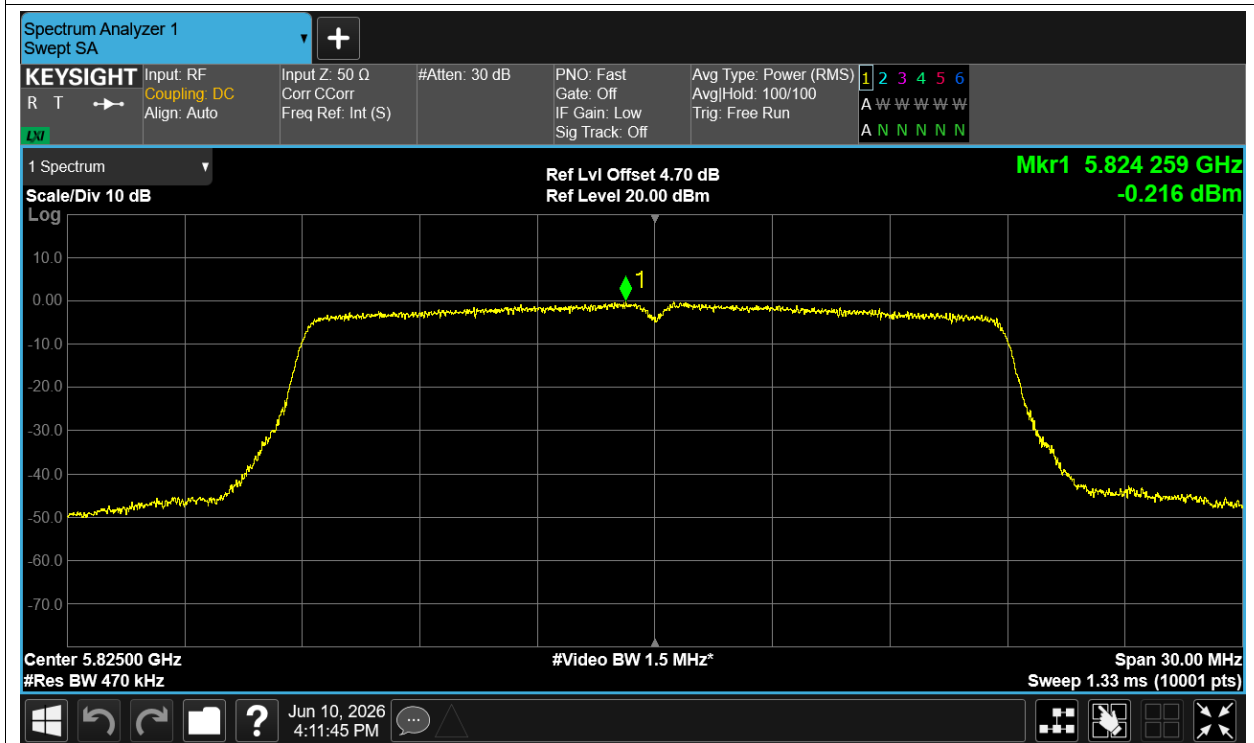
PSD NVNT ac20 5785MHz Ant2



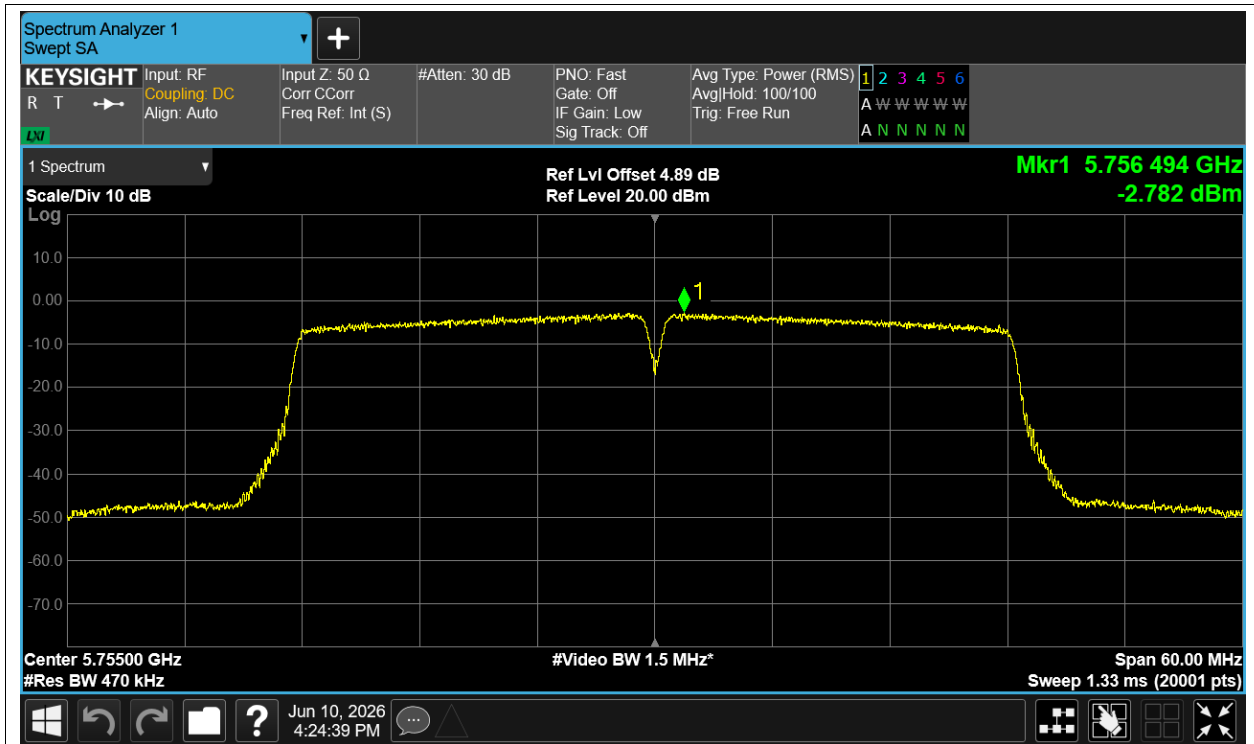
PSD NVNT ac20 5825MHz Ant1



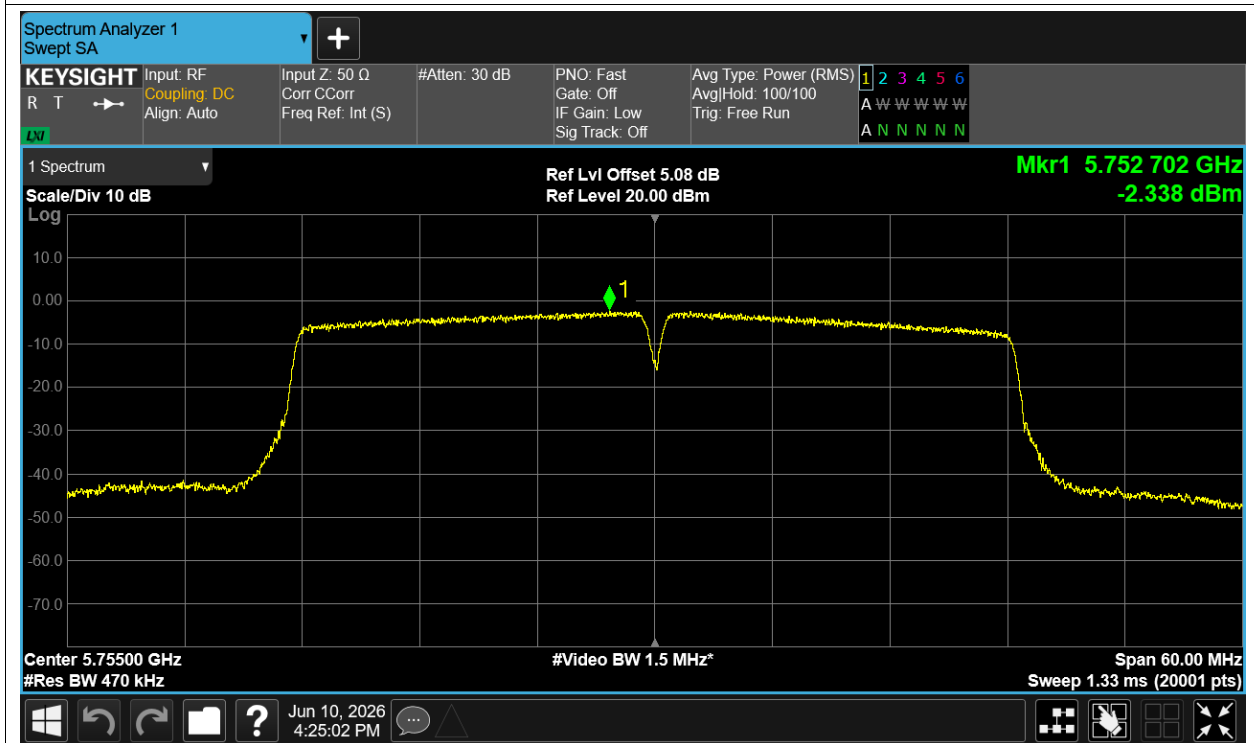
PSD NVNT ac20 5825MHz Ant2



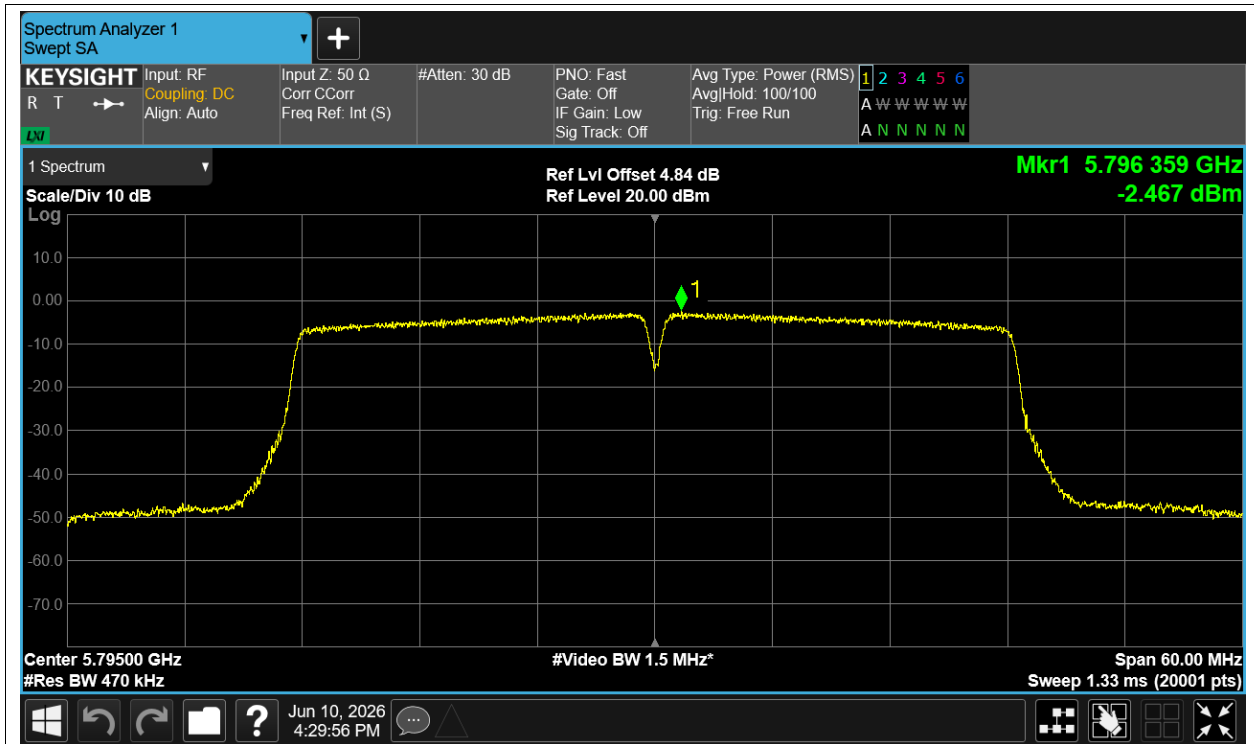
PSD NVNT ac40 5755MHz Ant1



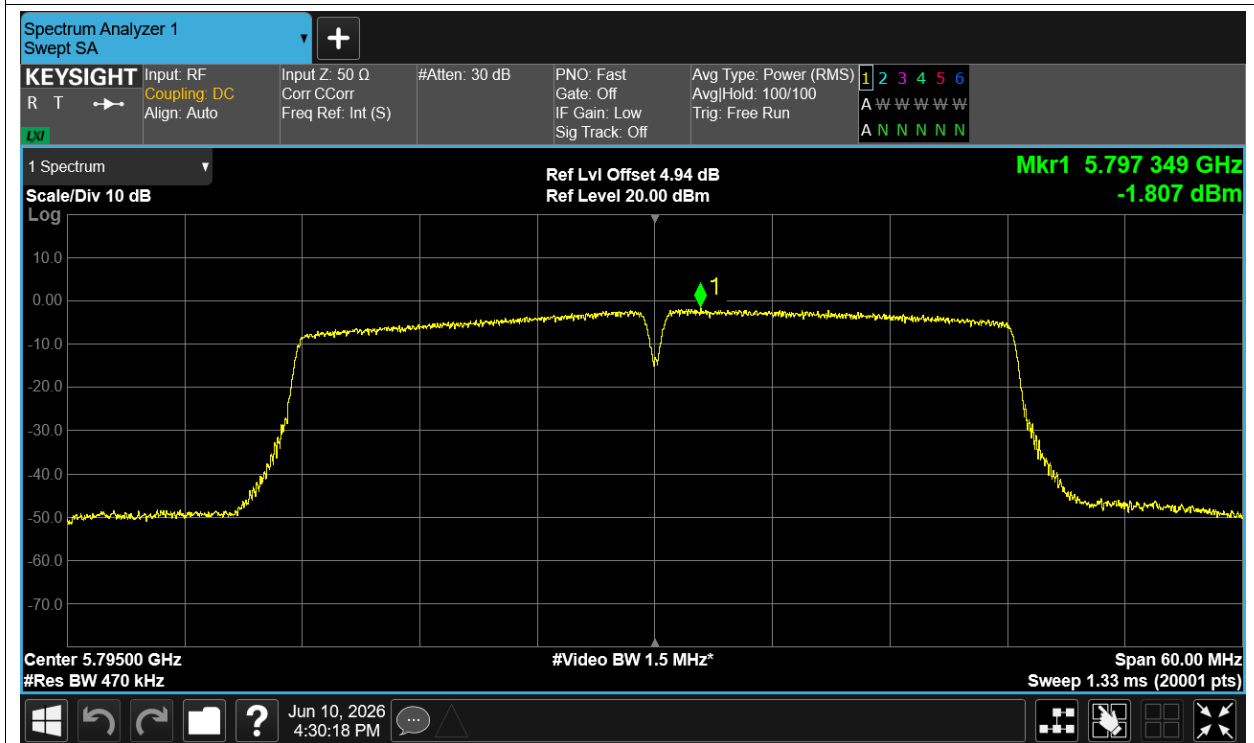
PSD NVNT ac40 5755MHz Ant2



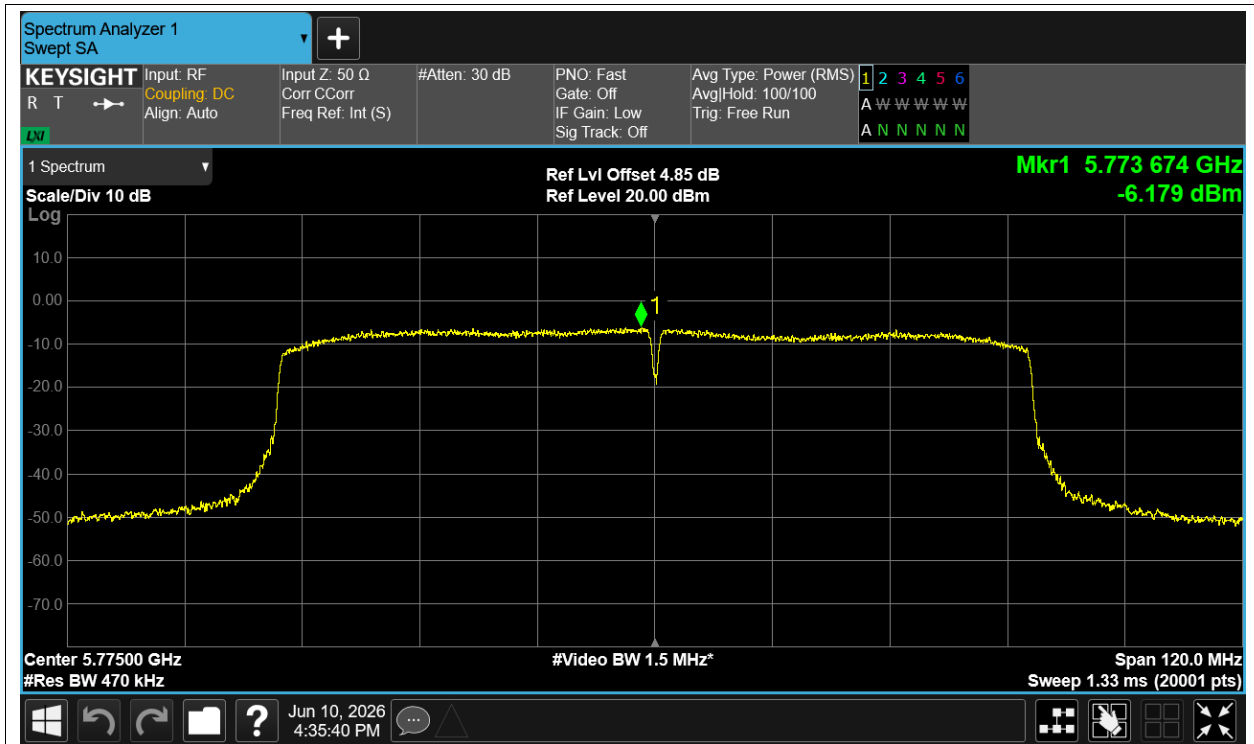
PSD NVNT ac40 5795MHz Ant1



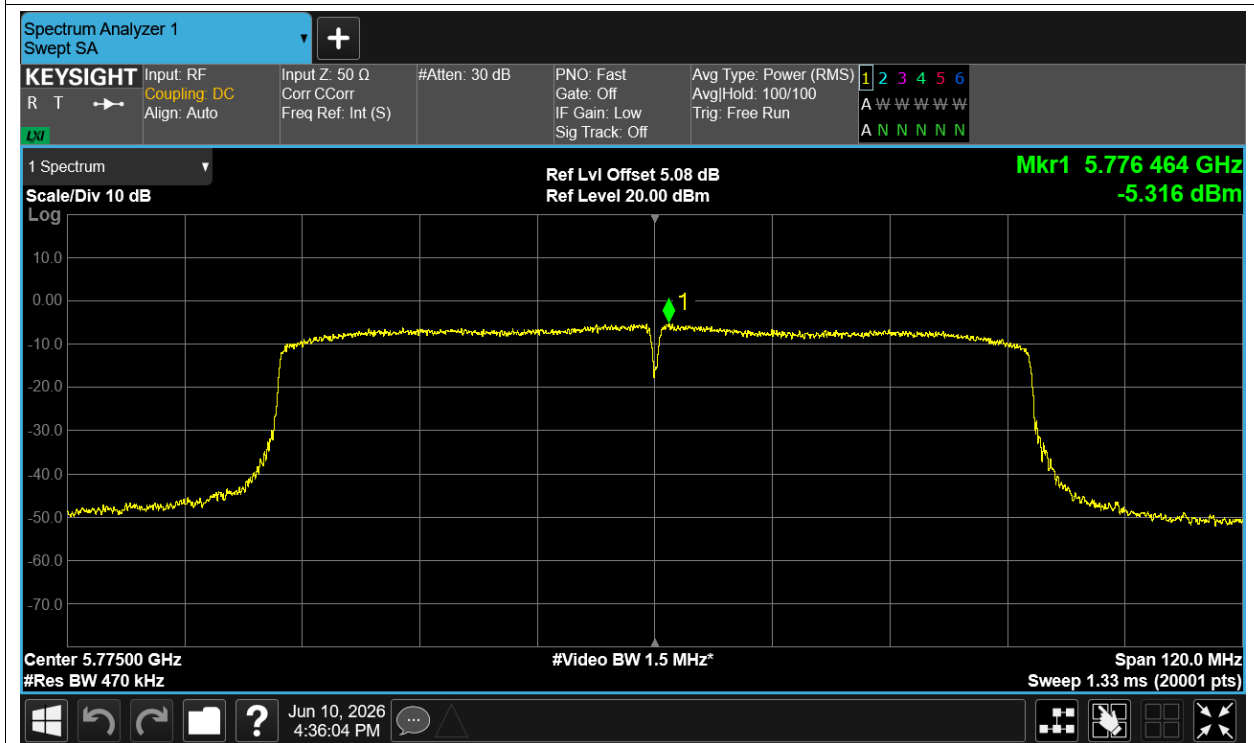
PSD NVNT ac40 5795MHz Ant2



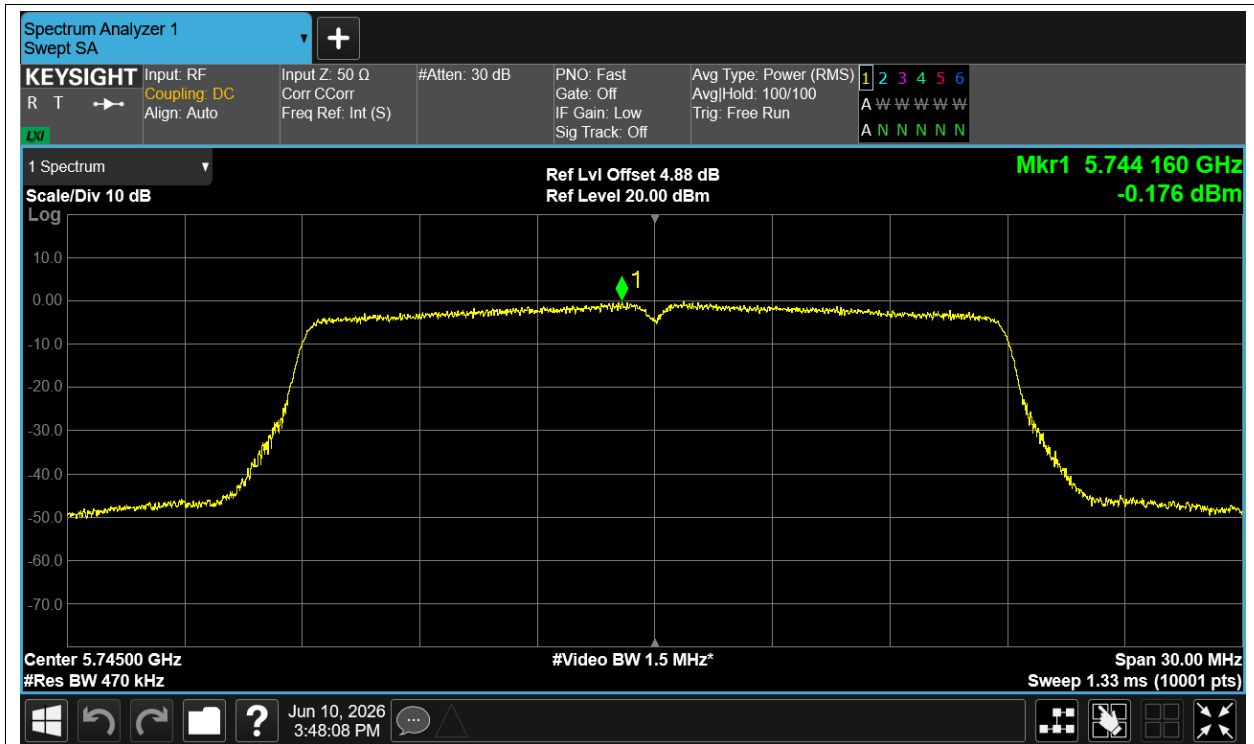
PSD NVNT ac80 5775MHz Ant1



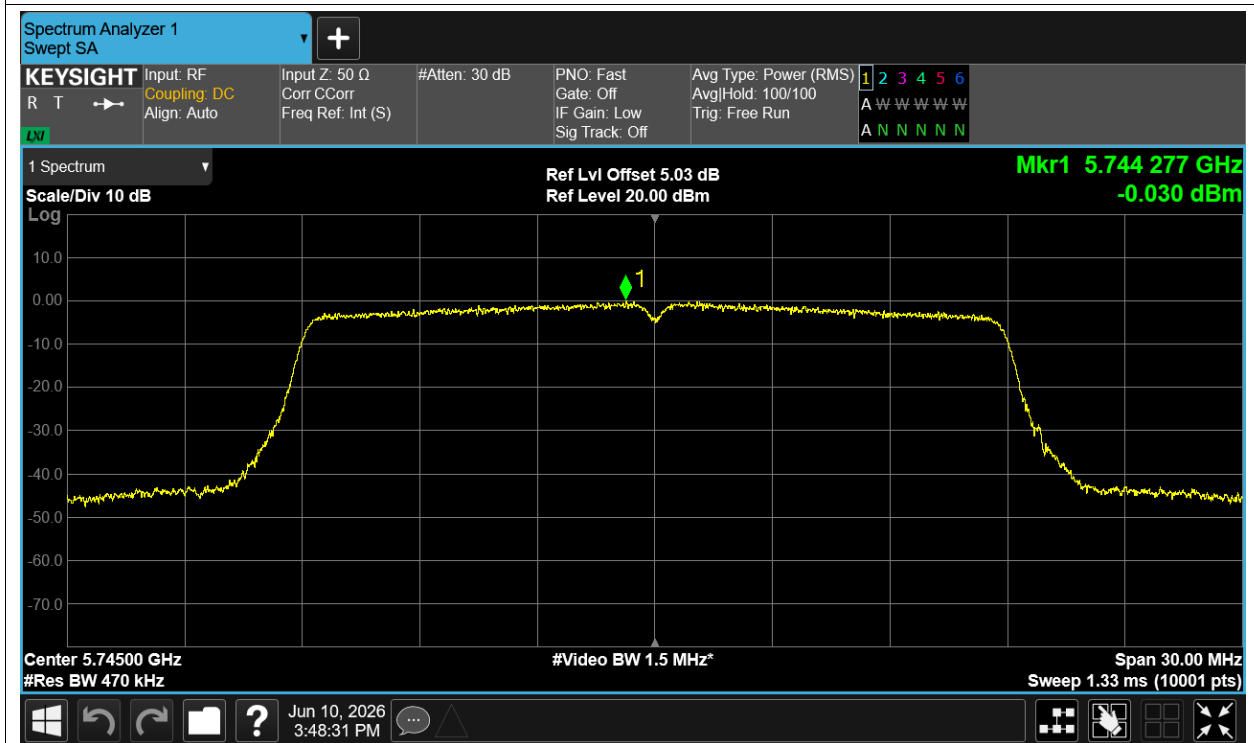
PSD NVNT ac80 5775MHz Ant2



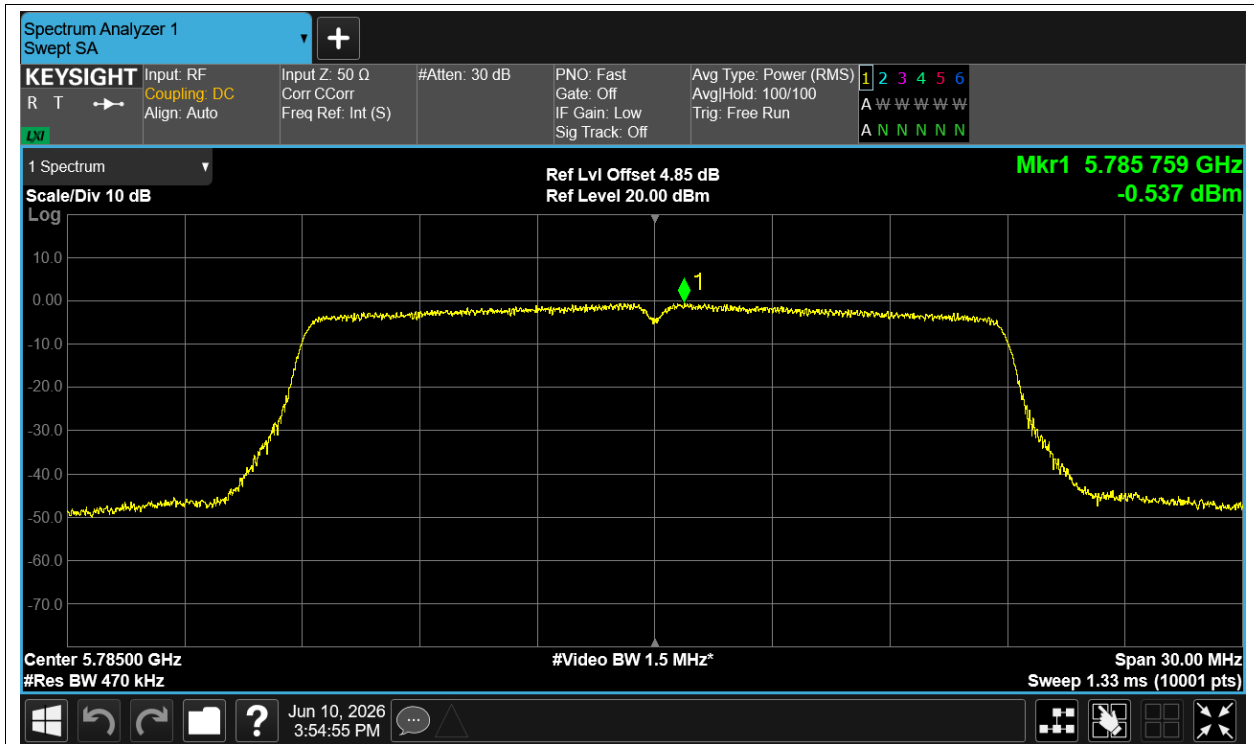
PSD NVNT n20 5745MHz Ant1



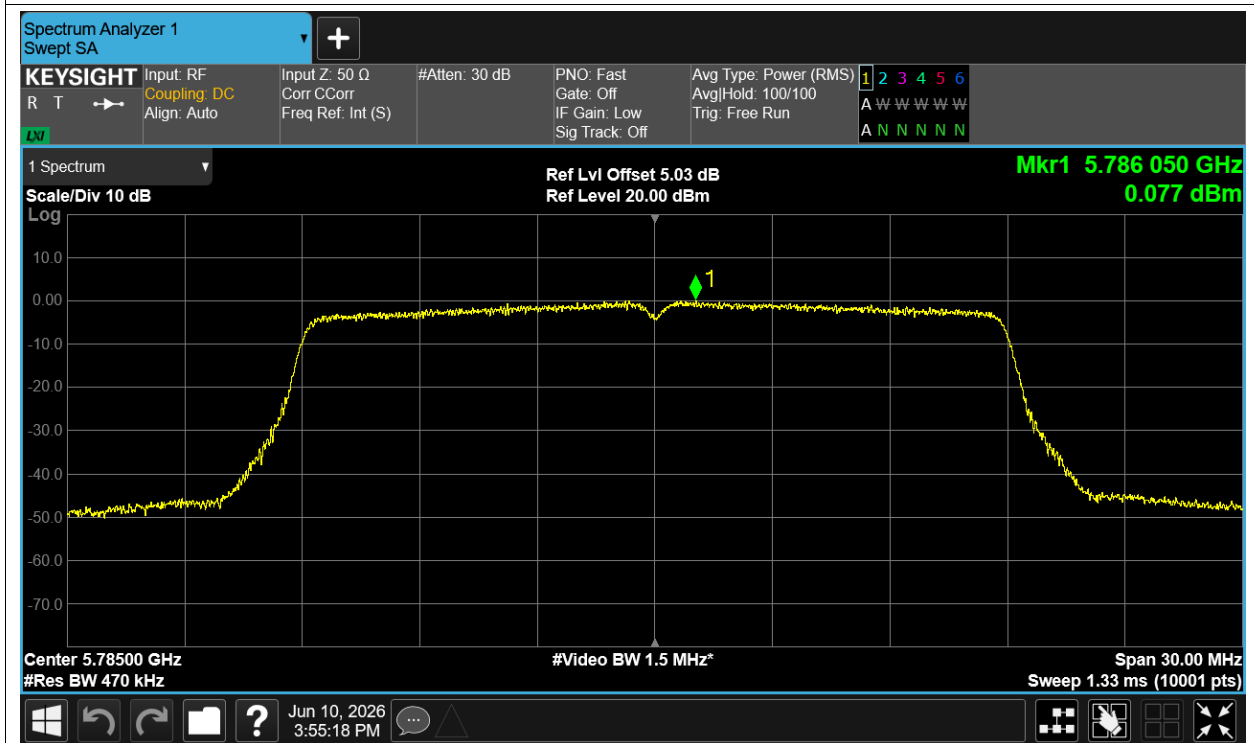
PSD NVNT n20 5745MHz Ant2



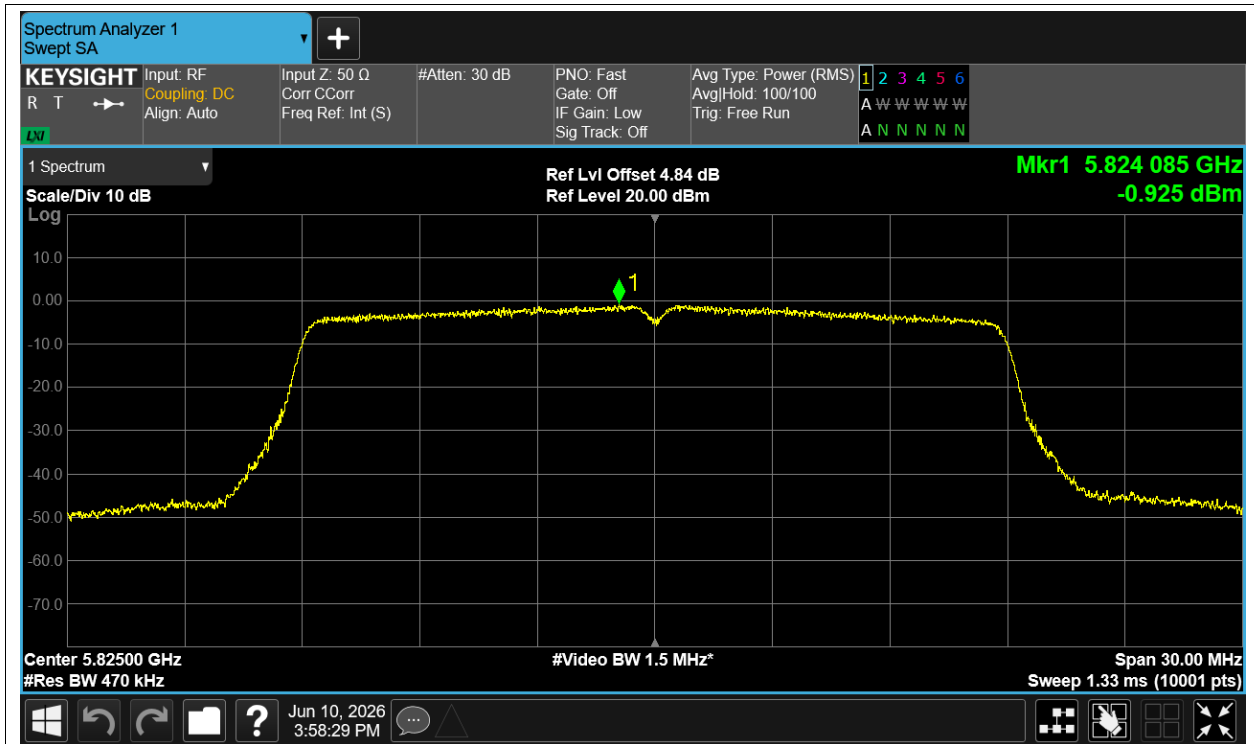
PSD NVNT n20 5785MHz Ant1



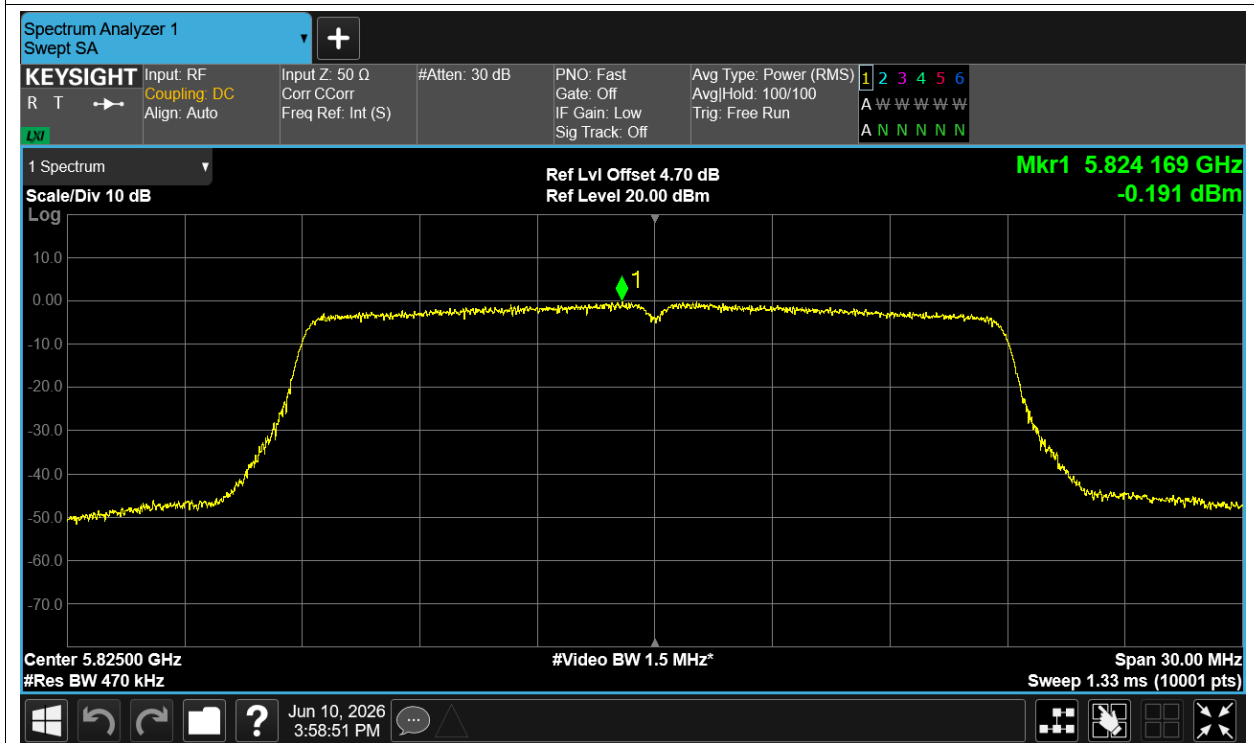
PSD NVNT n20 5785MHz Ant2



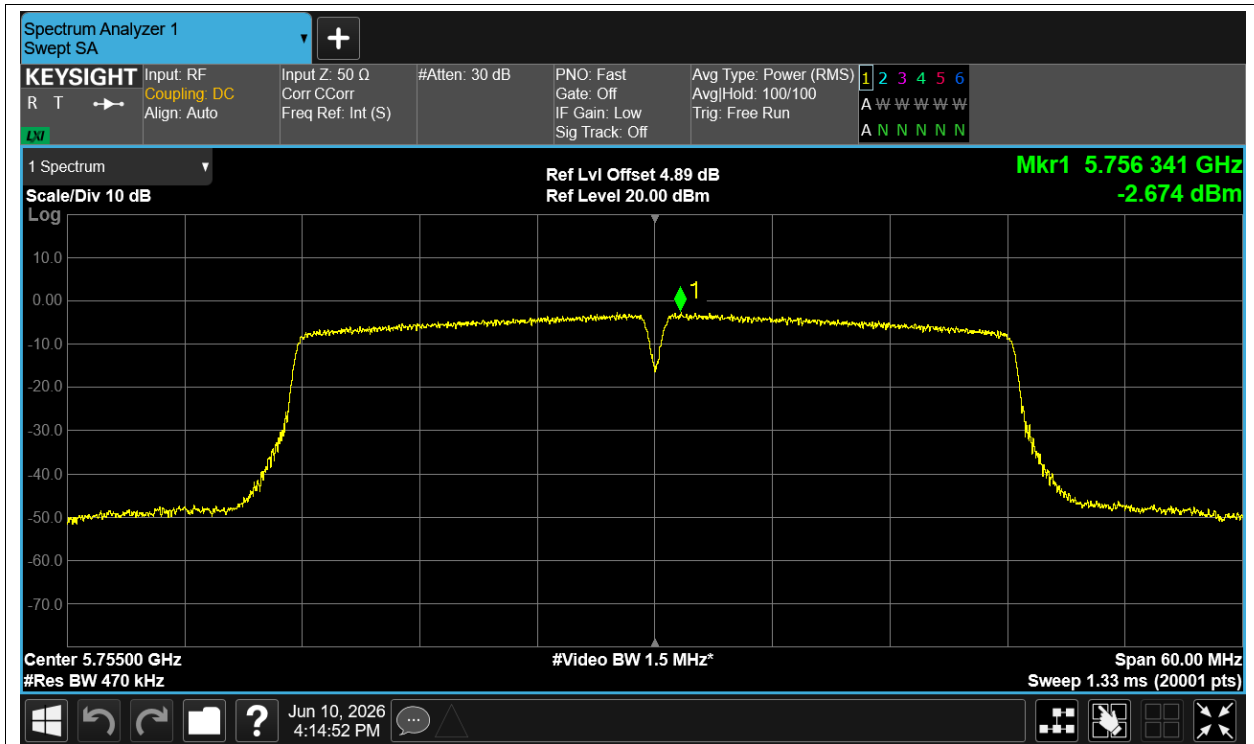
PSD NVNT n20 5825MHz Ant1



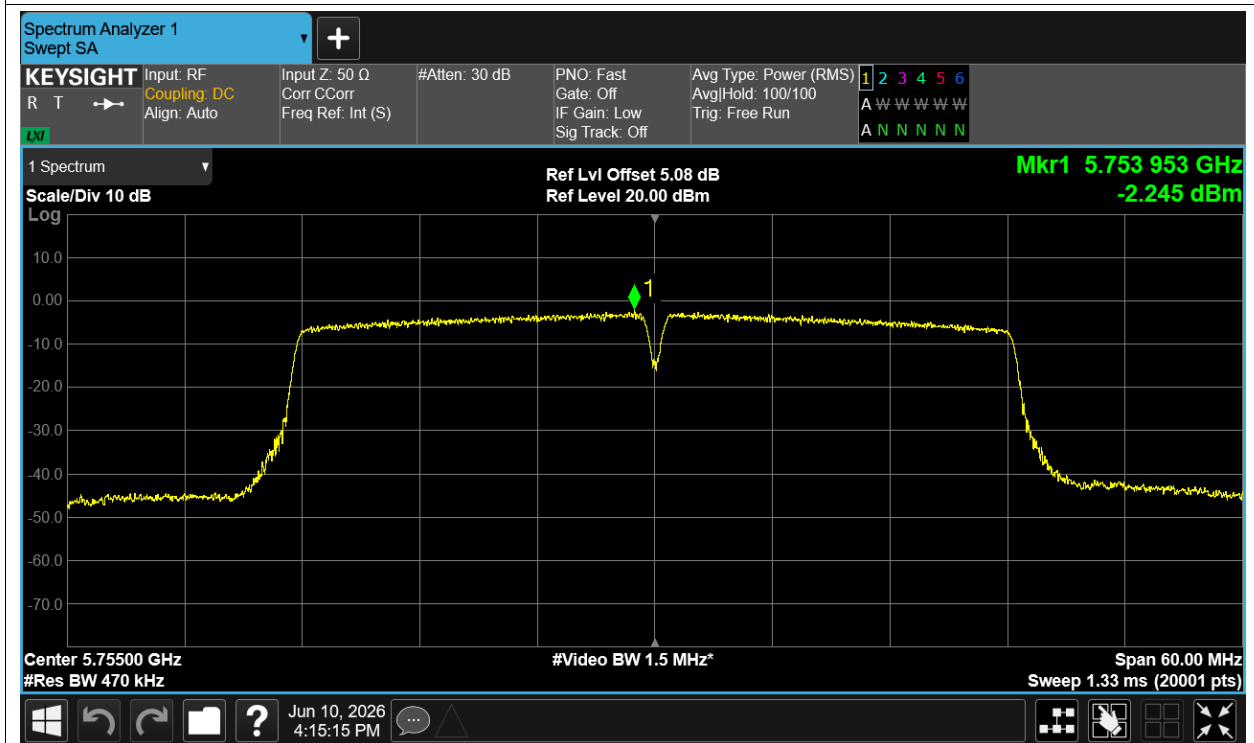
PSD NVNT n20 5825MHz Ant2



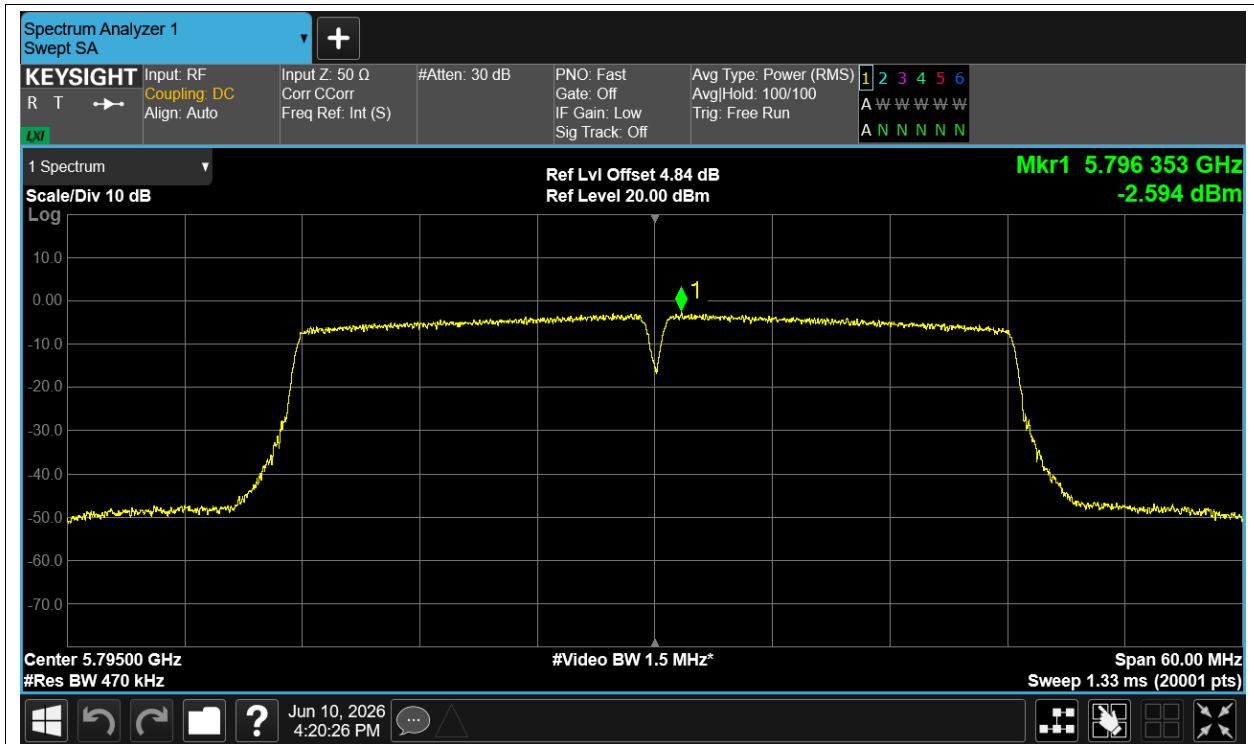
PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5755MHz Ant2



PSD NVNT n40 5795MHz Ant1



PSD NVNT n40 5795MHz Ant2

