Test Data

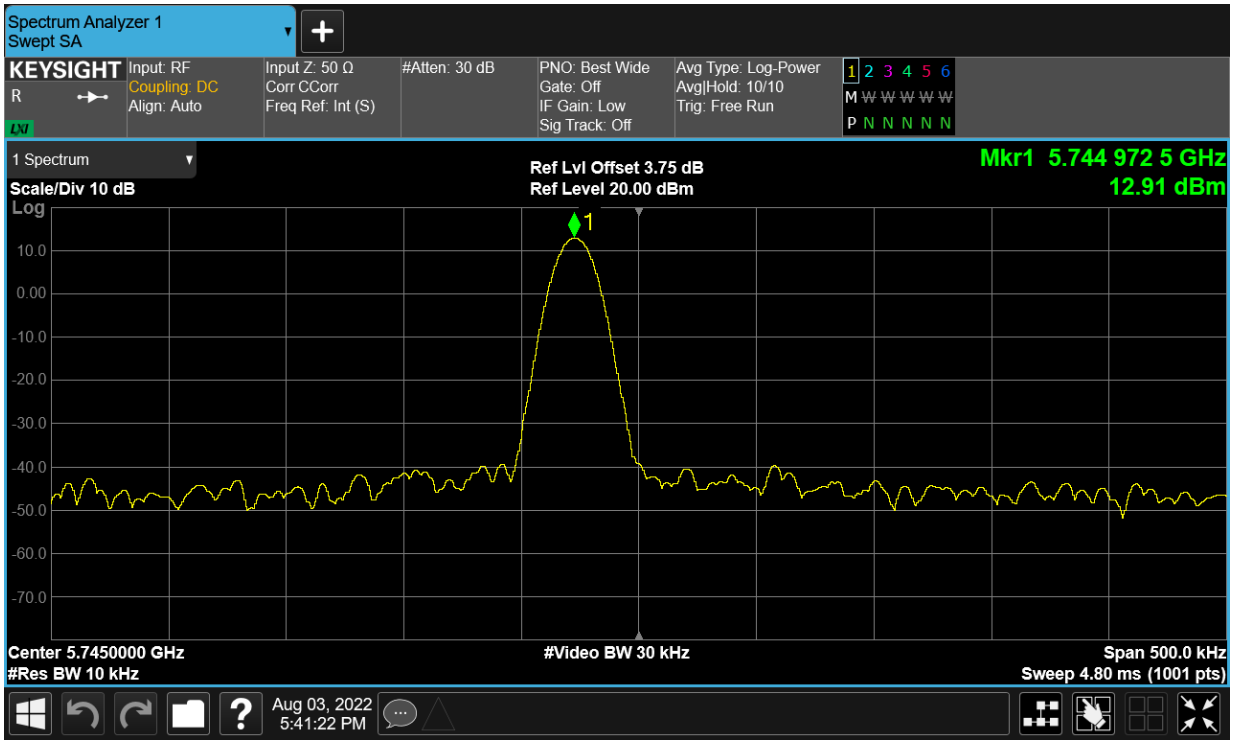
Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5745	Ant1	5744.9725	-4.79	Within authorized band	Pass
HVNT	a	5745	Ant2	5744.973	-4.7		Pass
LVNT	a	5745	Ant1	5744.973	-4.7		Pass
LVNT	a	5745	Ant2	5744.9735	-4.61		Pass
NVHT	a	5745	Ant1	5744.9735	-4.61		Pass
NVHT	a	5745	Ant2	5744.974	-4.53		Pass
NVLT	a	5745	Ant1	5744.974	-4.53		Pass
NVLT	a	5745	Ant2	5744.975	-4.35		Pass
NVNT	a	5745	Ant1	5744.975	-4.35		Pass
NVNT	a	5745	Ant2	5744.9765	-4.09		Pass
HVNT	ac20	5745	Sum	5744.9705	-5.13		Pass
LVNT	ac20	5745	Sum	5744.9705	-5.13		Pass
NVHT	ac20	5745	Sum	5744.971	-5.05		Pass
NVLT	ac20	5745	Sum	5744.9715	-4.96		Pass
NVNT	ac20	5745	Sum	5744.972	-4.87		Pass
HVNT	ax20	5745	Sum	5744.9705	-5.13		Pass
LVNT	ax20	5745	Sum	5744.9705	-5.13		Pass
NVHT	ax20	5745	Sum	5744.971	-5.05		Pass
NVLT	ax20	5745	Sum	5744.971	-5.05		Pass
NVNT	ax20	5745	Sum	5744.9715	-4.96		Pass
HVNT	ax40	5755	Sum	5754.9705	-5.13		Pass
LVNT	ax40	5755	Sum	5754.9705	-5.13		Pass
NVHT	ax40	5755	Sum	5754.9705	-5.13		Pass
NVLT	ax40	5755	Sum	5754.971	-5.04		Pass
NVNT	ax40	5755	Sum	5754.972	-4.87		Pass
HVNT	ax80	5775	Sum	5774.9705	-5.11		Pass
LVNT	ax80	5775	Sum	5774.9705	-5.11		Pass
NVHT	ax80	5775	Sum	5774.9705	-5.11		Pass
NVLT	ax80	5775	Sum	5774.9705	-5.11		Pass
NVNT	ax80	5775	Sum	5774.9715	-4.94		Pass
HVNT	n20	5745	Sum	5744.9705	-5.13		Pass
LVNT	n20	5745	Sum	5744.9705	-5.13		Pass
NVHT	n20	5745	Sum	5744.9705	-5.13		Pass
NVLT	n20	5745	Sum	5744.971	-5.05		Pass
NVNT	n20	5745	Sum	5744.972	-4.87		Pass
HVNT	n40	5755	Sum	5754.9705	-5.13		Pass
LVNT	n40	5755	Sum	5754.9705	-5.13		Pass
NVHT	n40	5755	Sum	5754.9705	-5.13		Pass
NVLT	n40	5755	Sum	5754.9705	-5.13		Pass

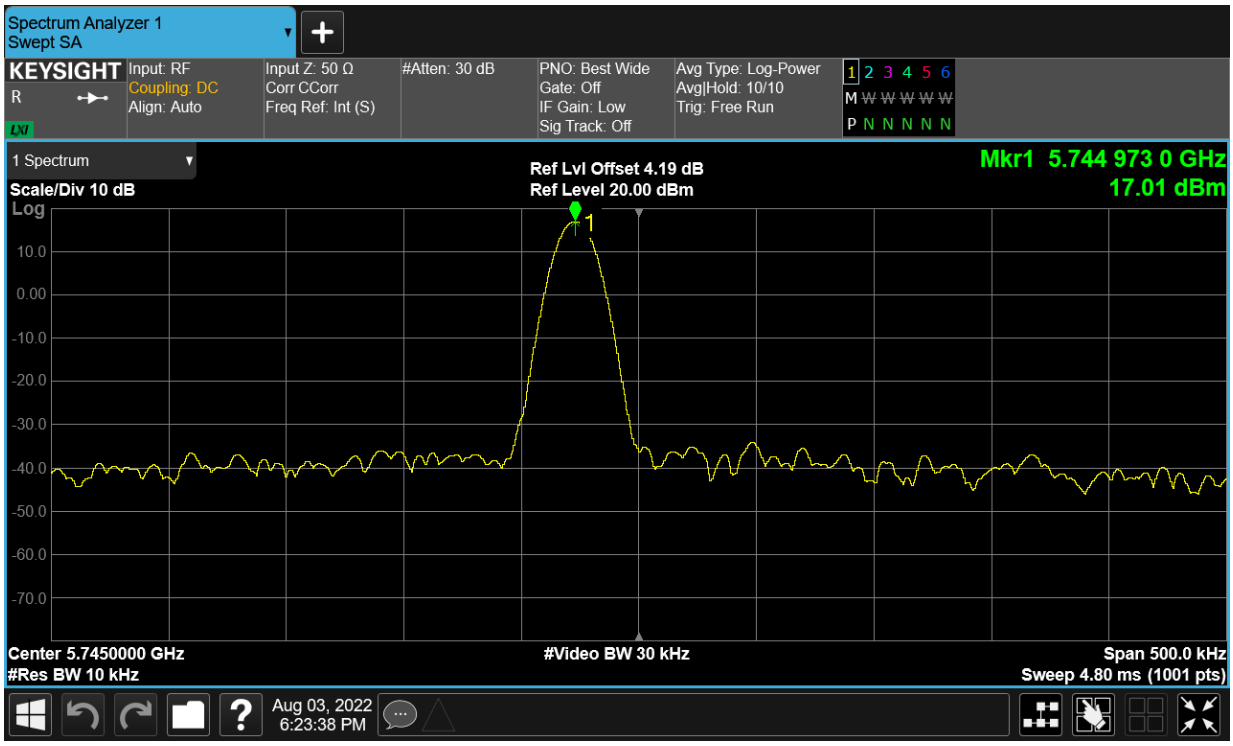
NVNT	n40	5755	Sum	5754.9715	-4.95		Pass
Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.							

Test Graphs

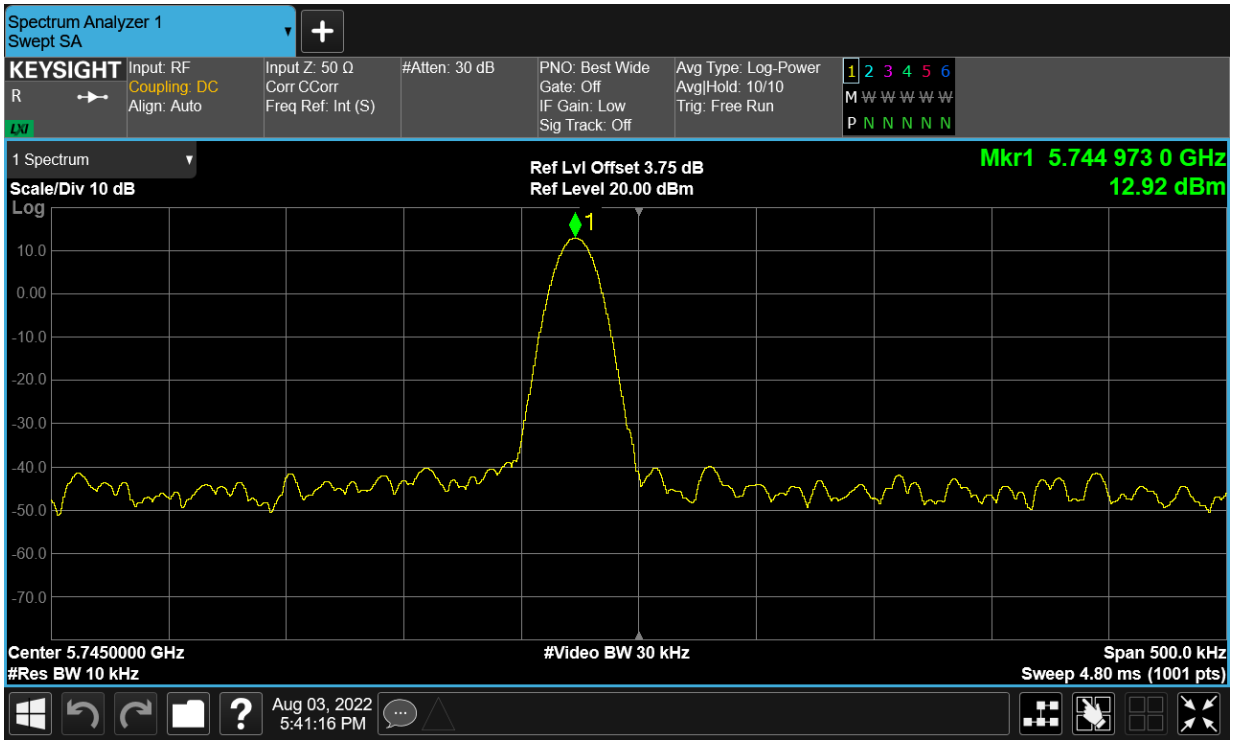
Freq. Stability HVNT a 5745MHz Ant1



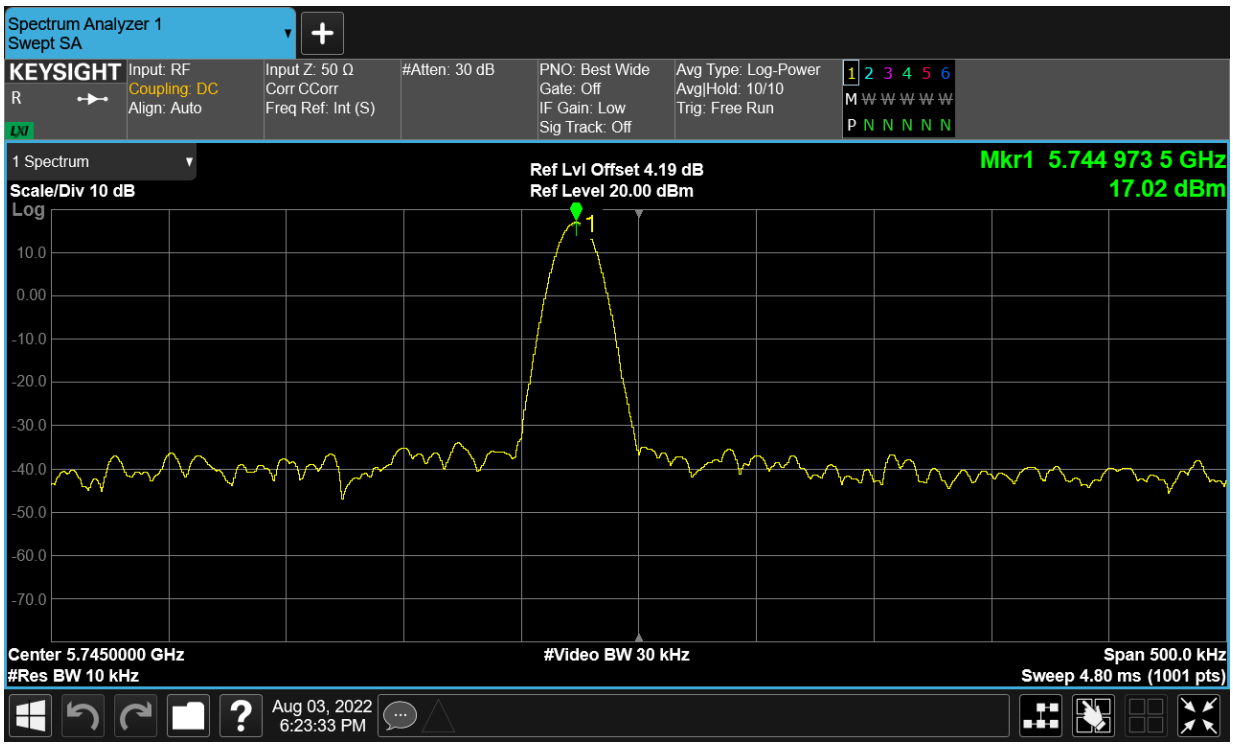
Freq. Stability HVNT a 5745MHz Ant2



Freq. Stability LVNT a 5745MHz Ant1

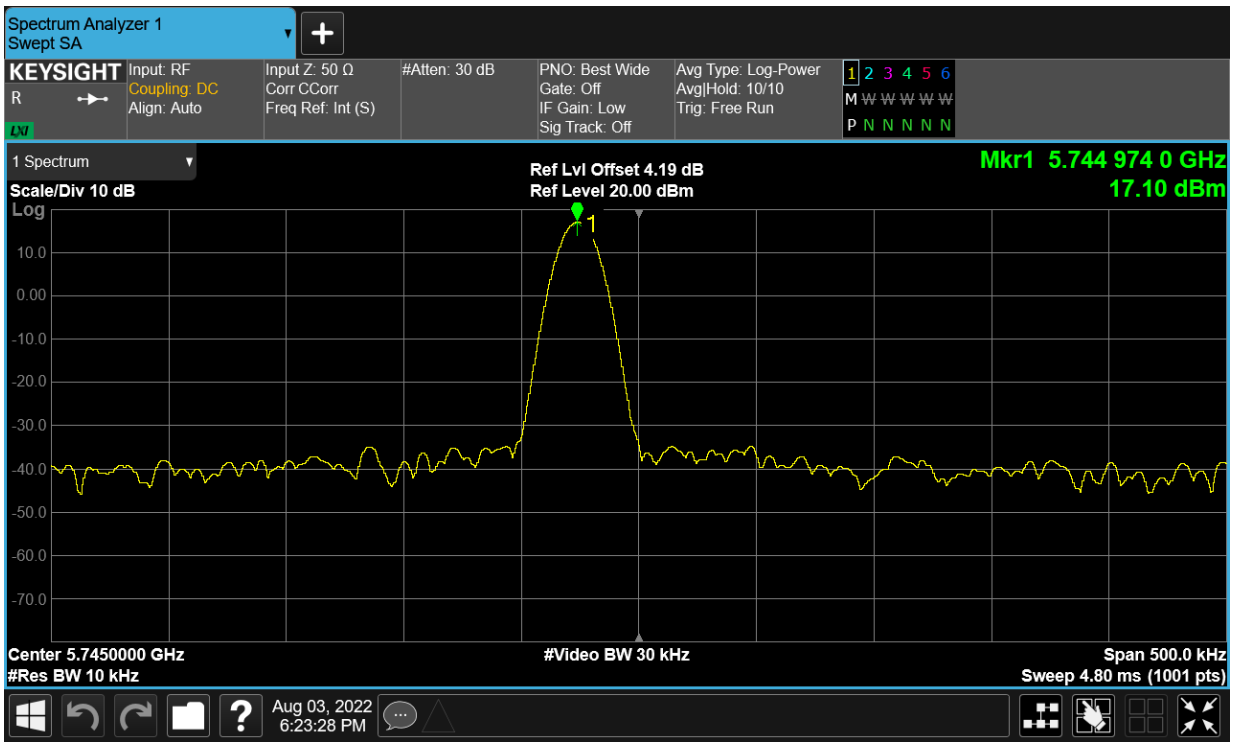


Freq. Stability LVNT a 5745MHz Ant2

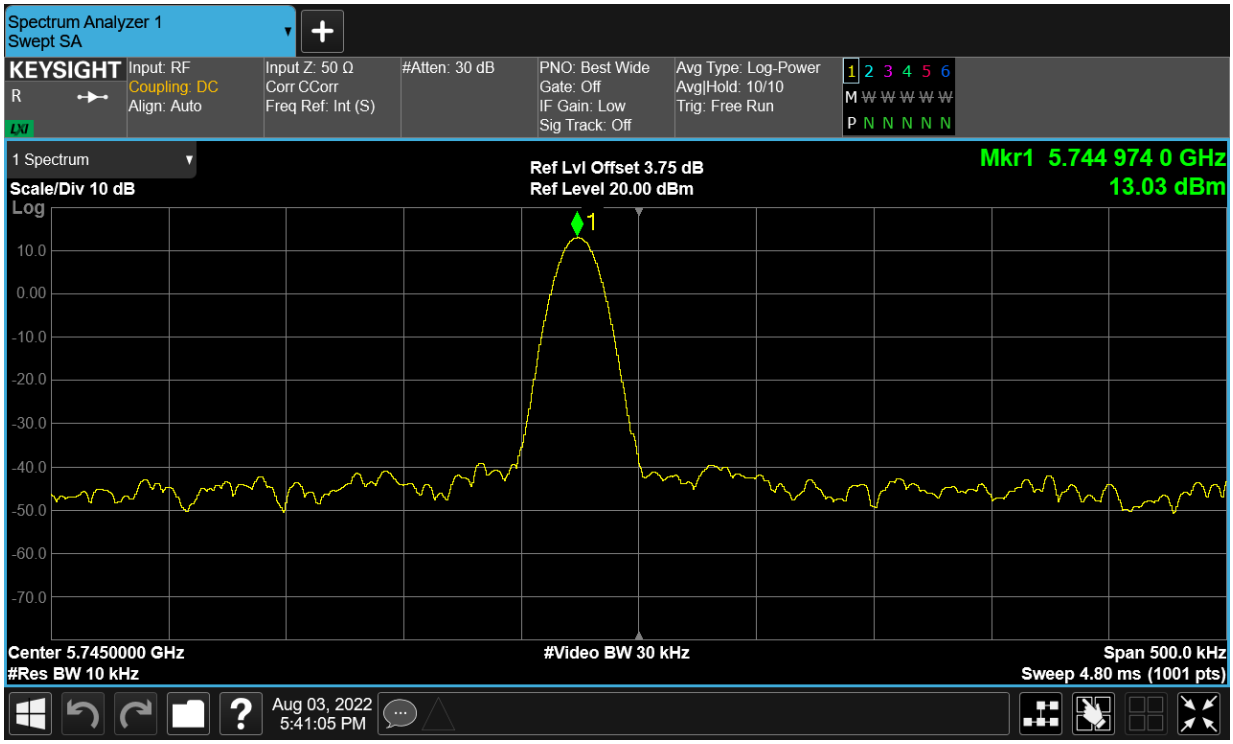


Freq. Stability NVHT a 5745MHz Ant1

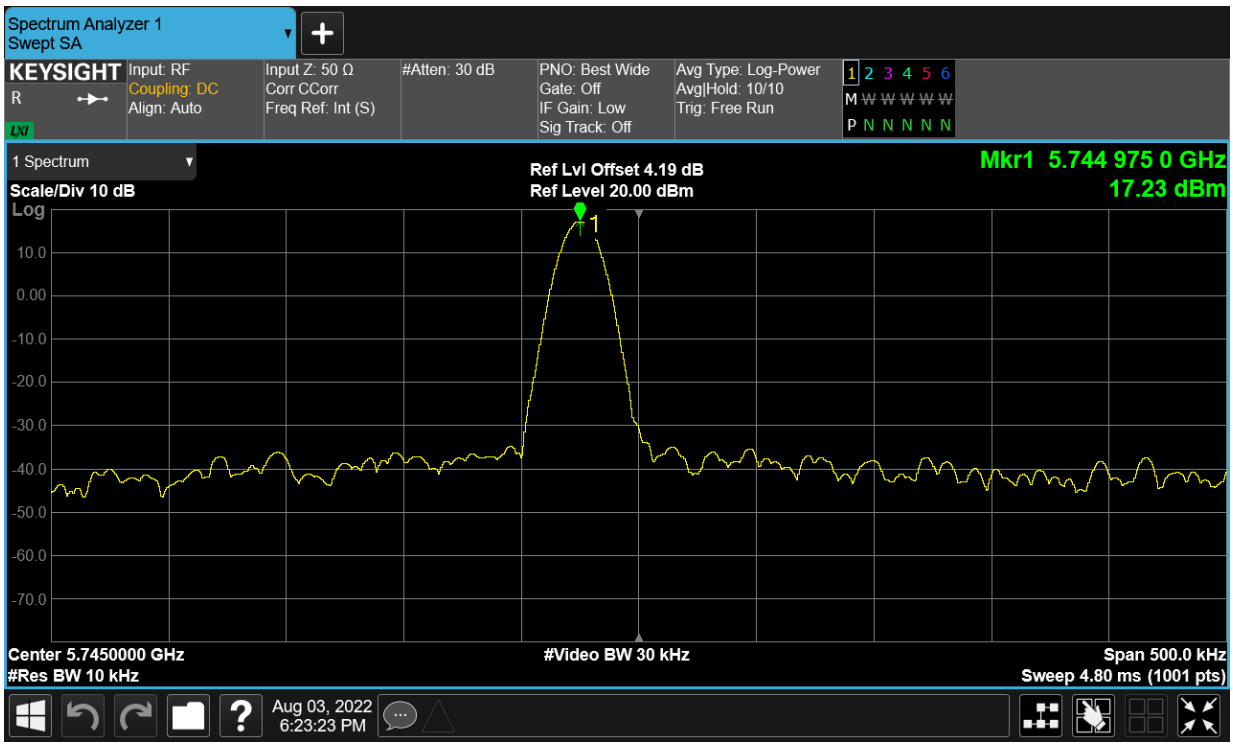
Freq. Stability NVHT a 5745MHz Ant2



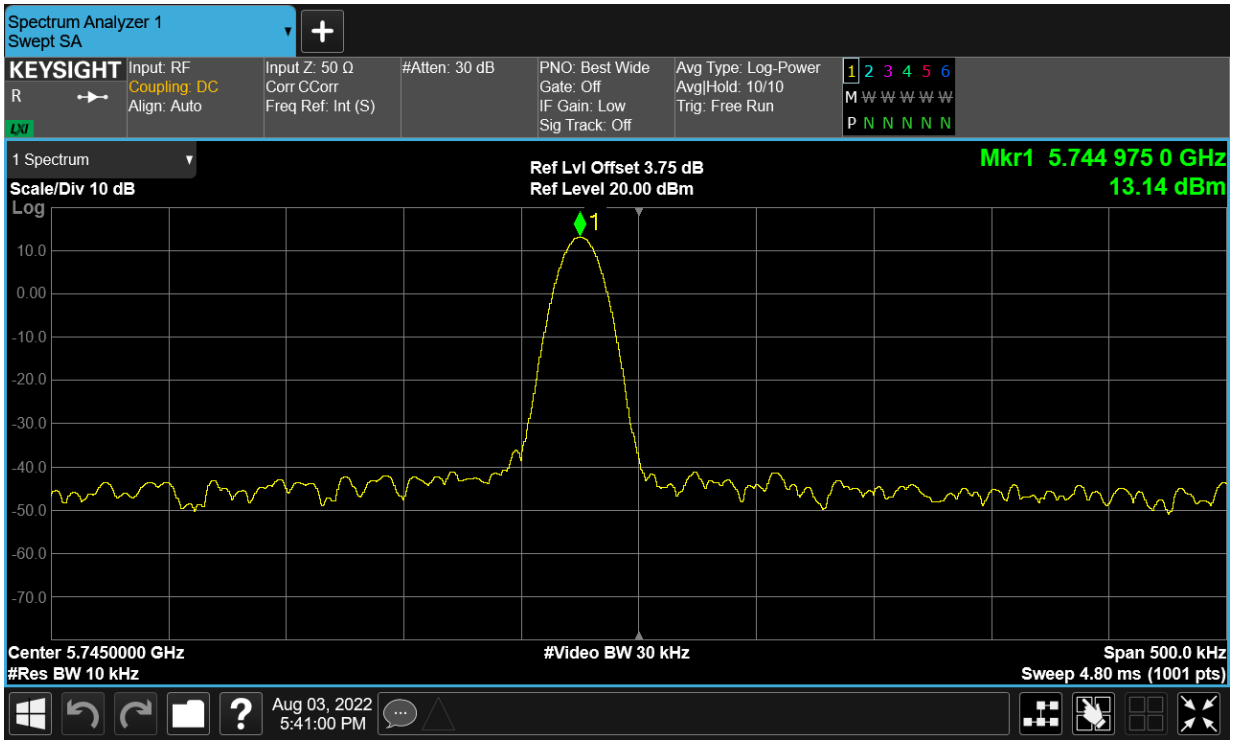
Freq. Stability NVLT a 5745MHz Ant1



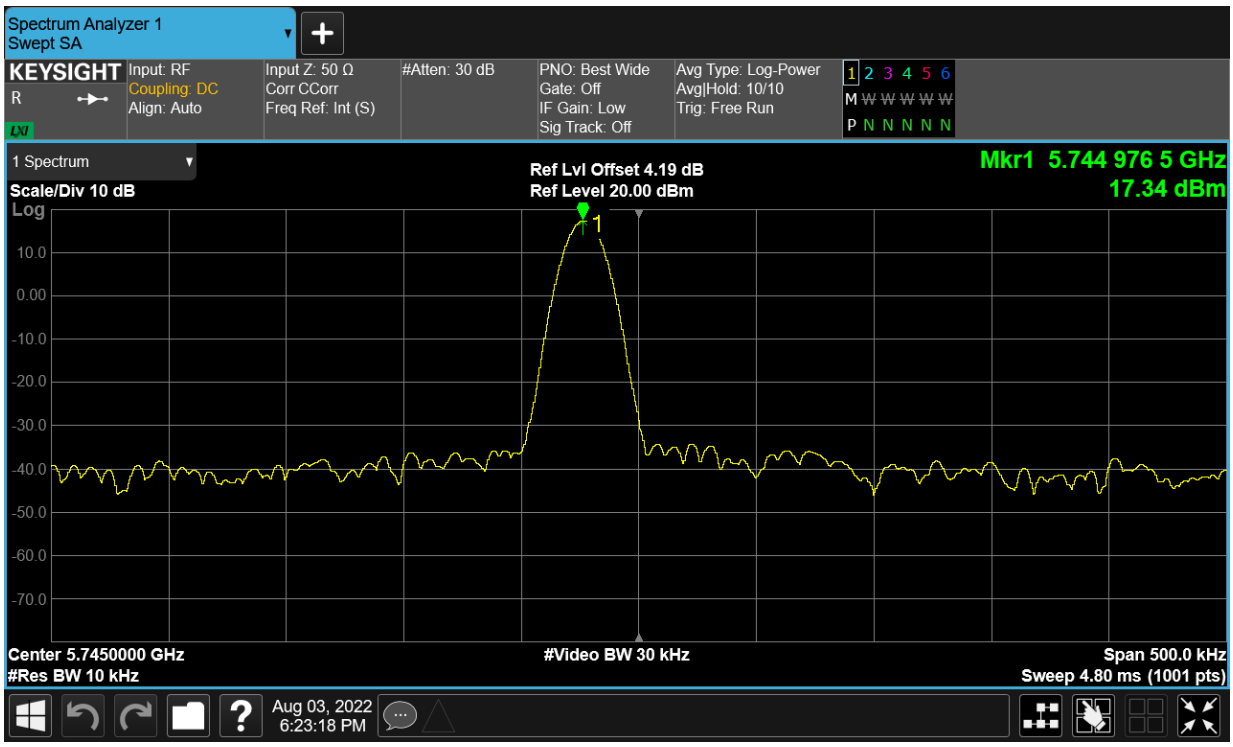
Freq. Stability NVLT a 5745MHz Ant2



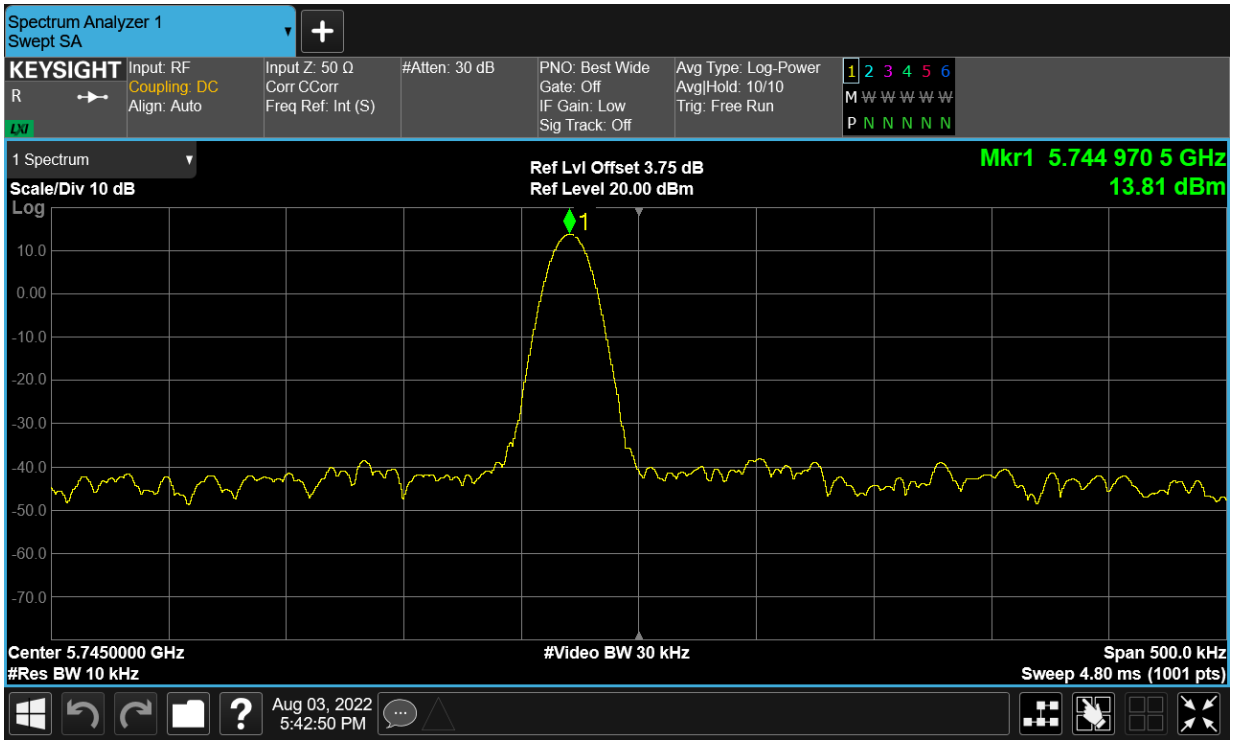
Freq. Stability NVNT a 5745MHz Ant1



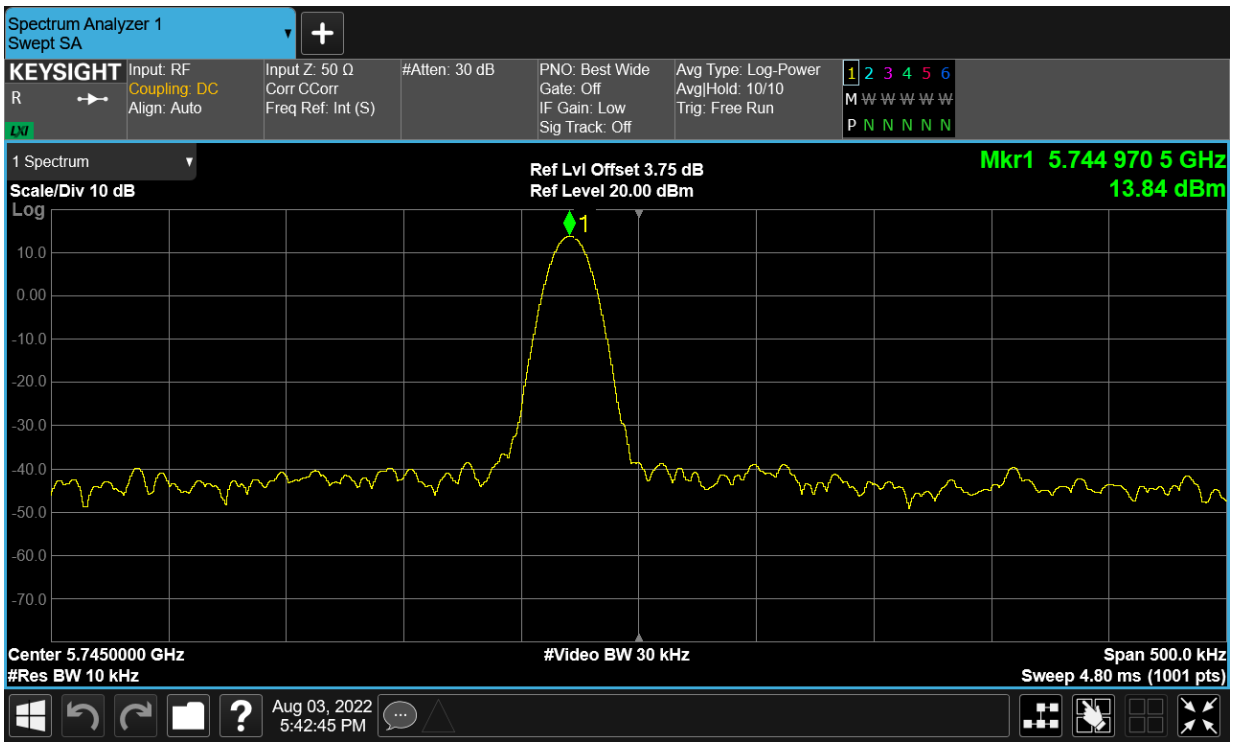
Freq. Stability NVNT a 5745MHz Ant2



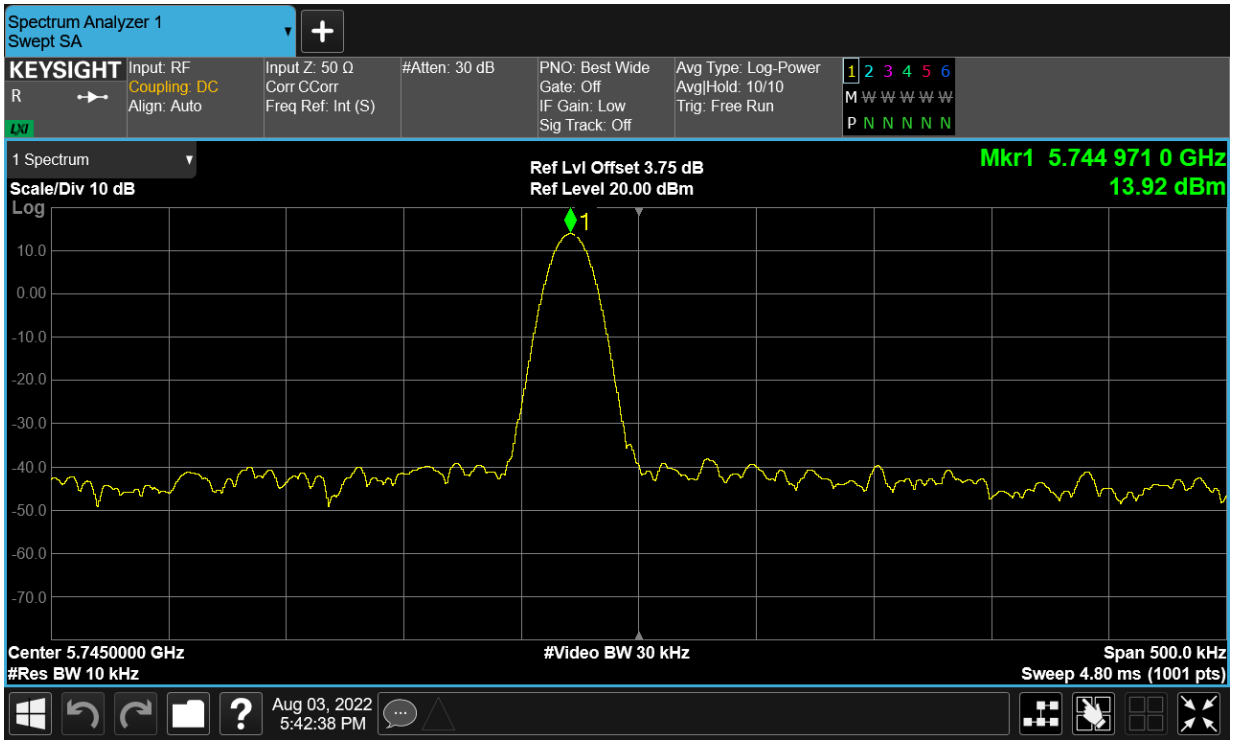
Freq. Stability HVNT ac20 5745MHz Sum



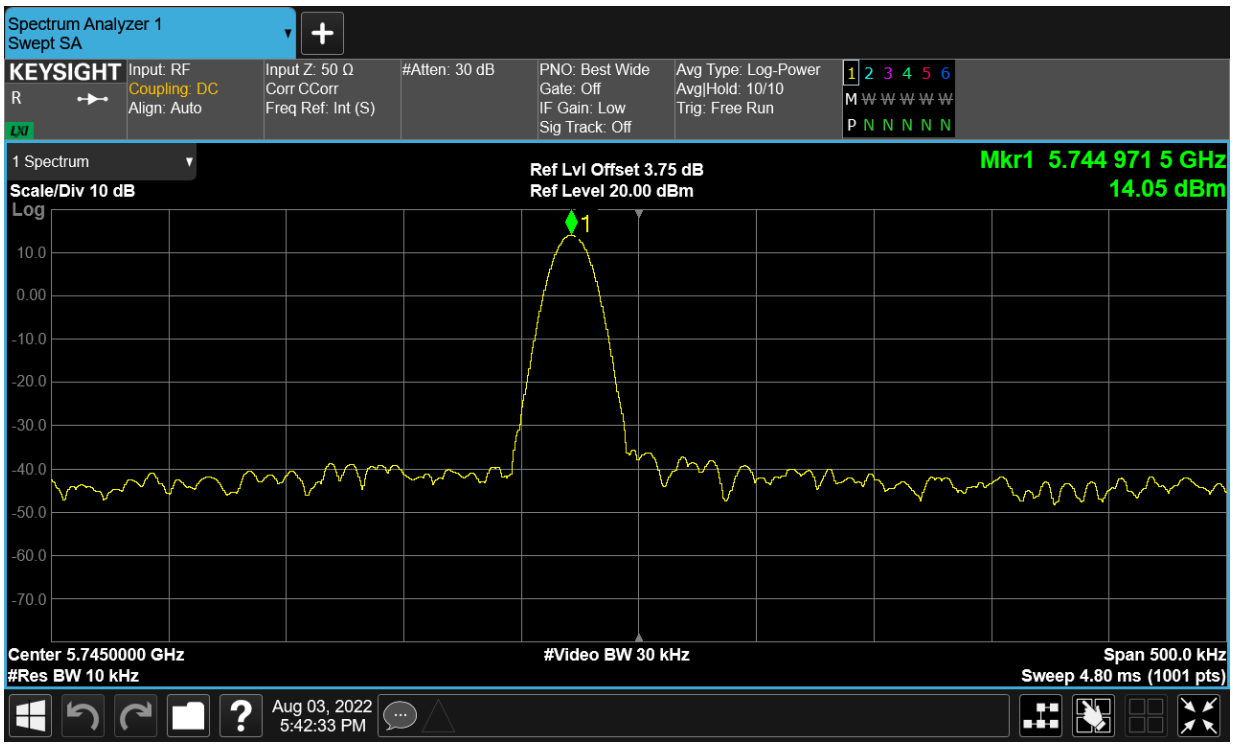
Freq. Stability LVNT ac20 5745MHz Sum



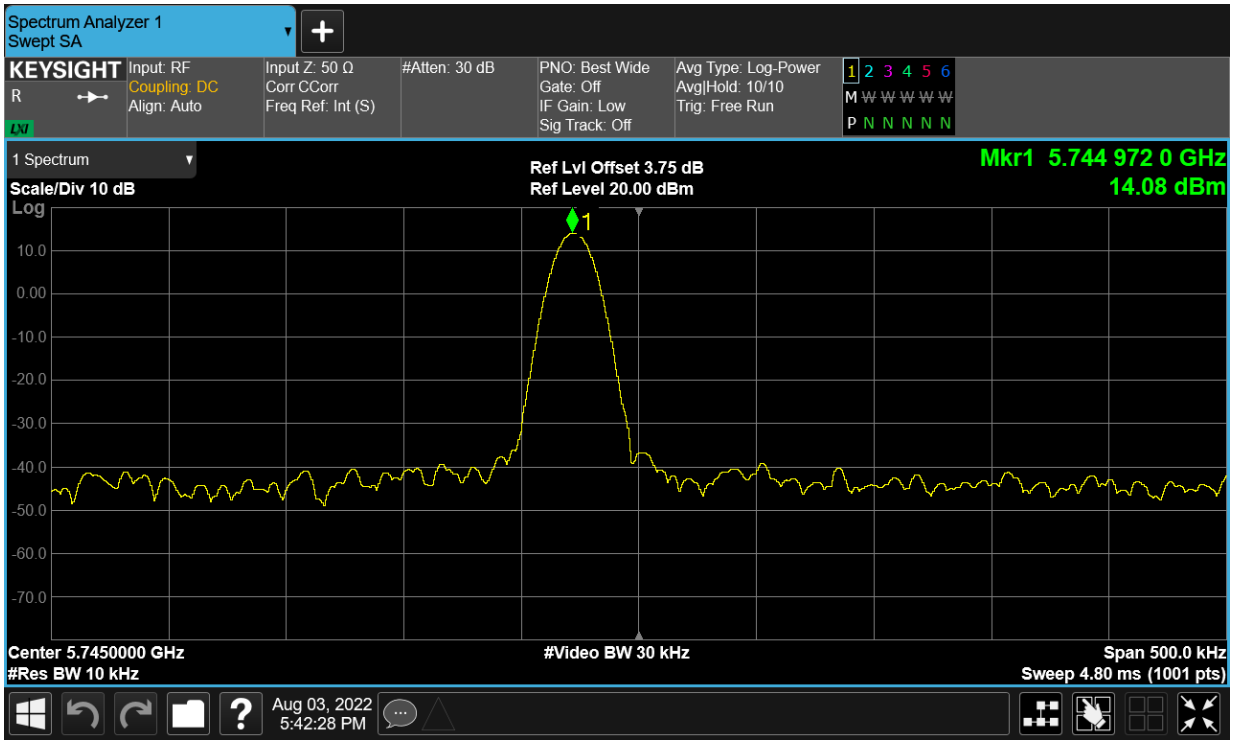
Freq. Stability NVHT ac20 5745MHz Sum



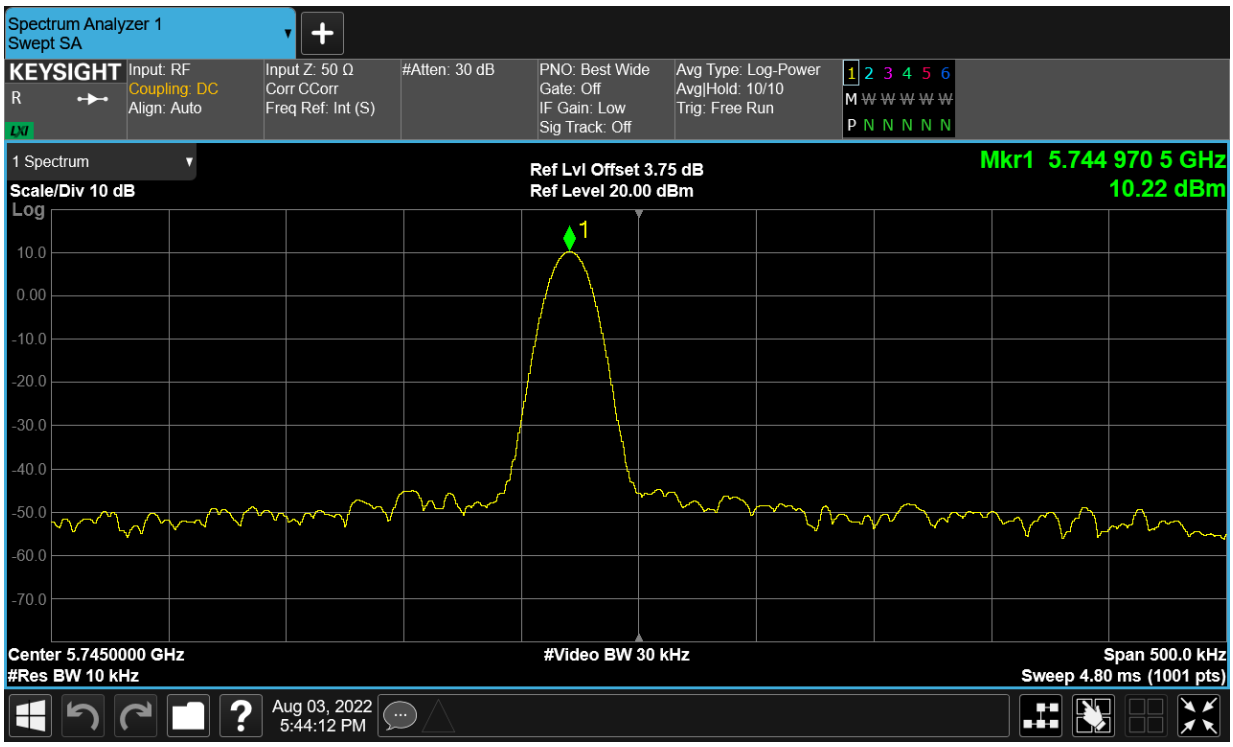
Freq. Stability NVLT ac20 5745MHz Sum



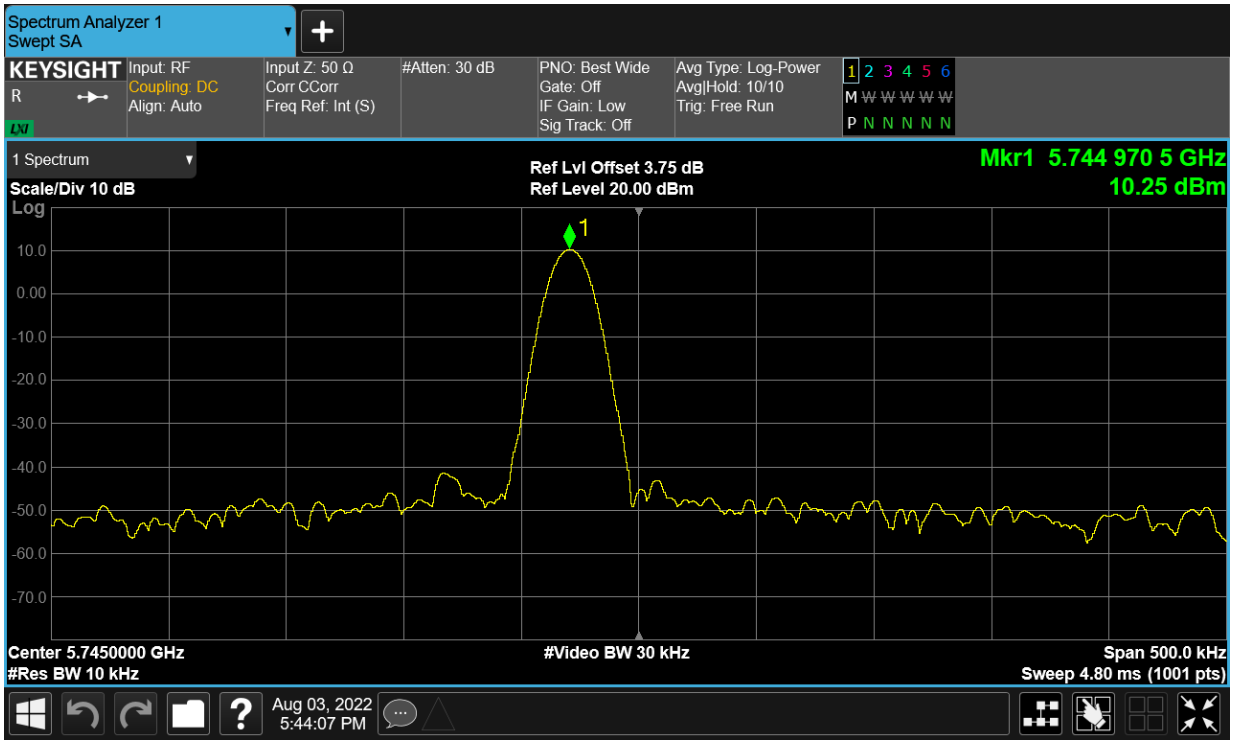
Freq. Stability NVNT ac20 5745MHz Sum



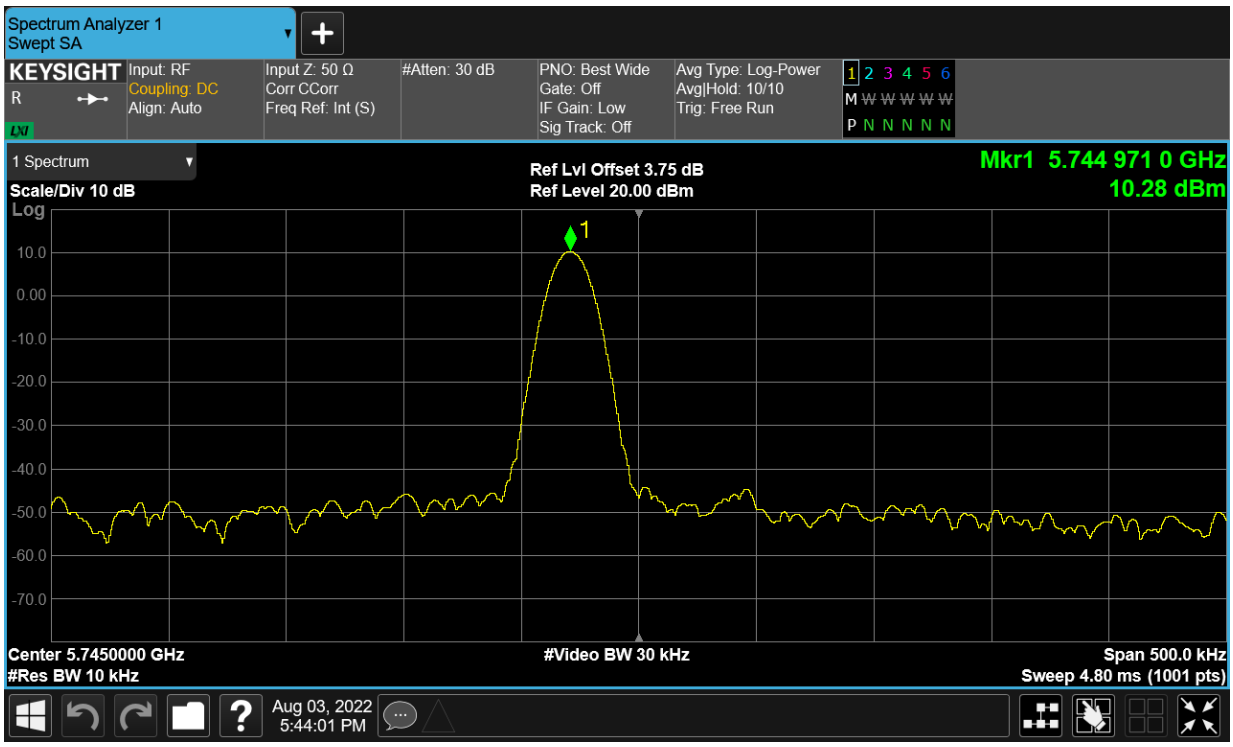
Freq. Stability HVNT ax20 5745MHz Sum



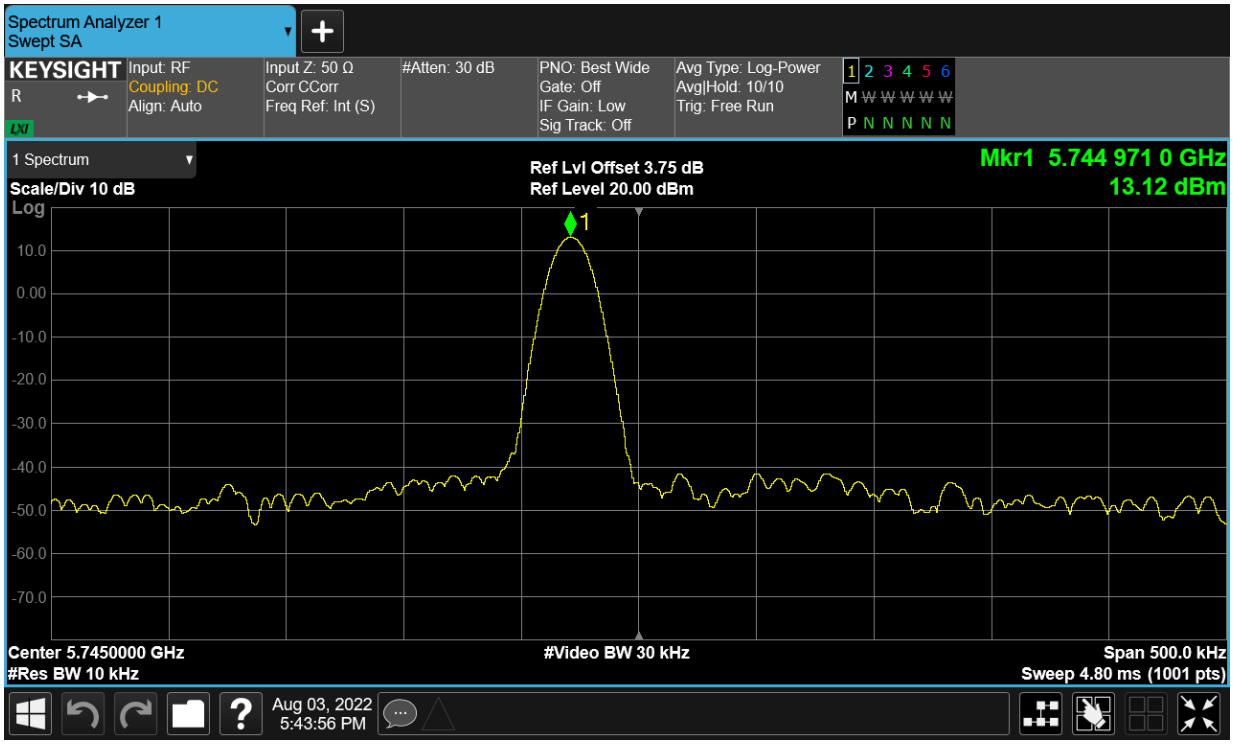
Freq. Stability LVNT ax20 5745MHz Sum



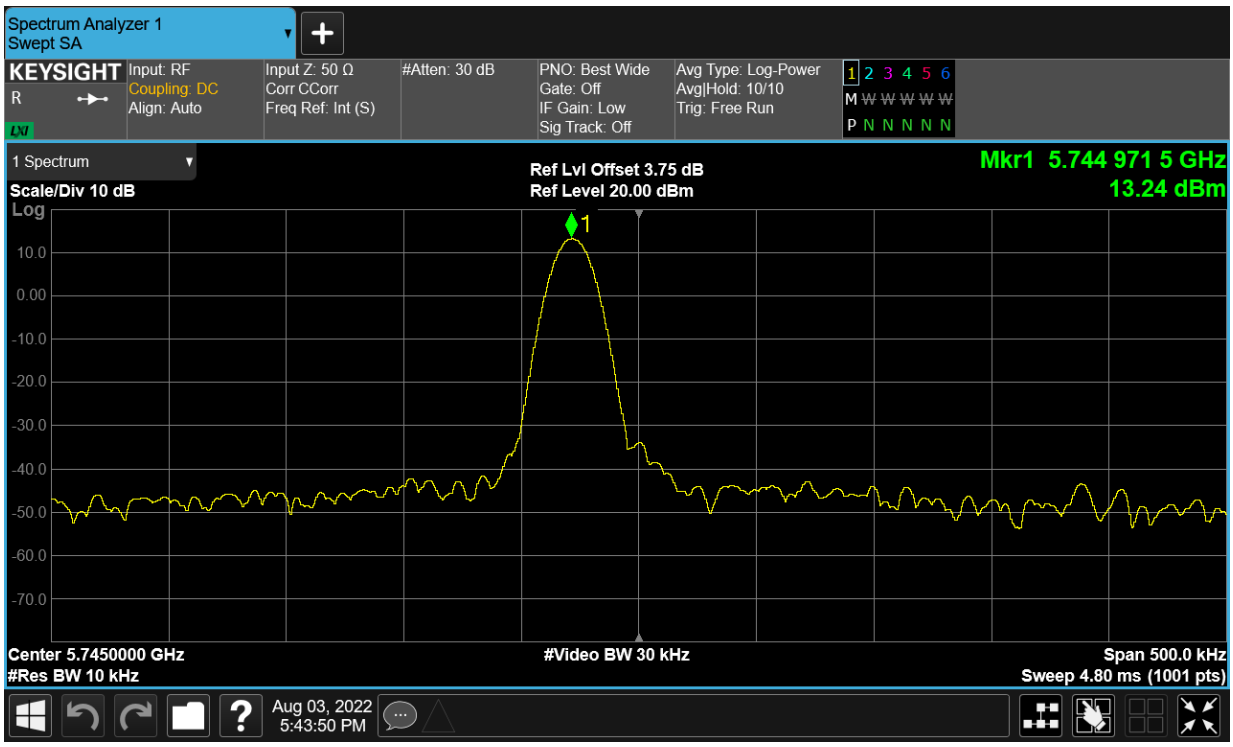
Freq. Stability NVHT ax20 5745MHz Sum



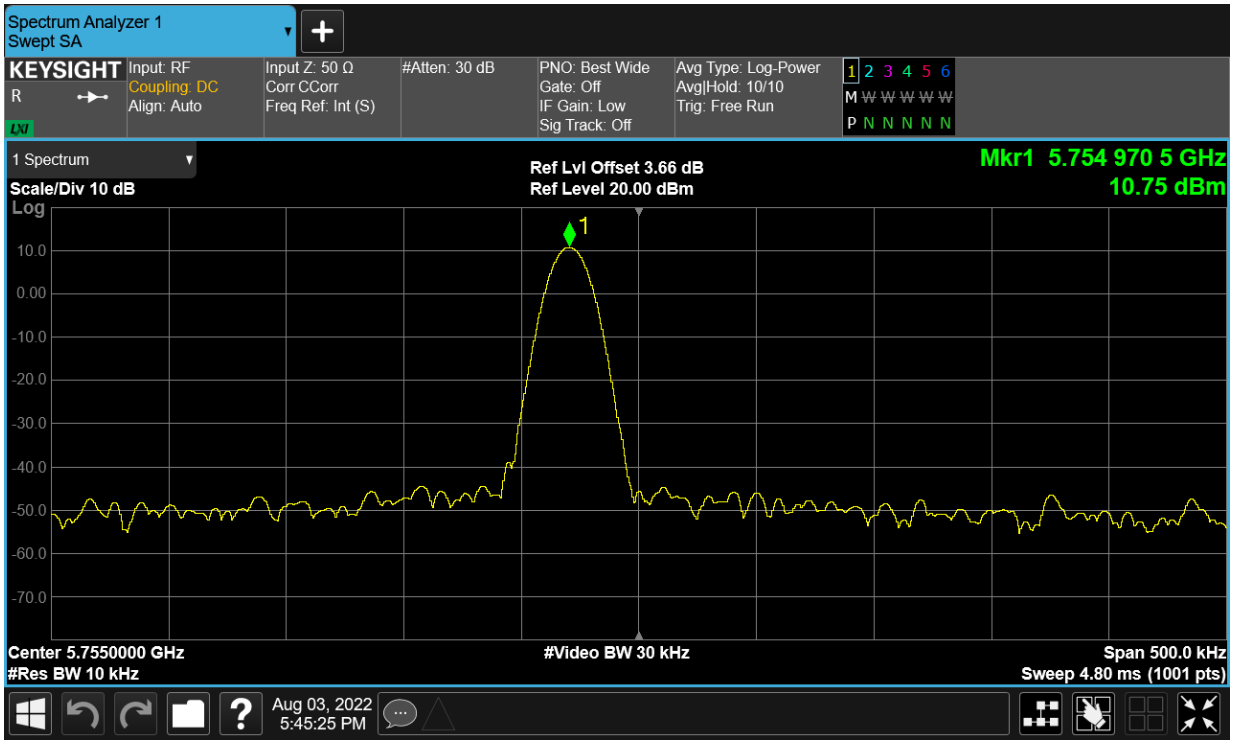
Freq. Stability NVLT ax20 5745MHz Sum



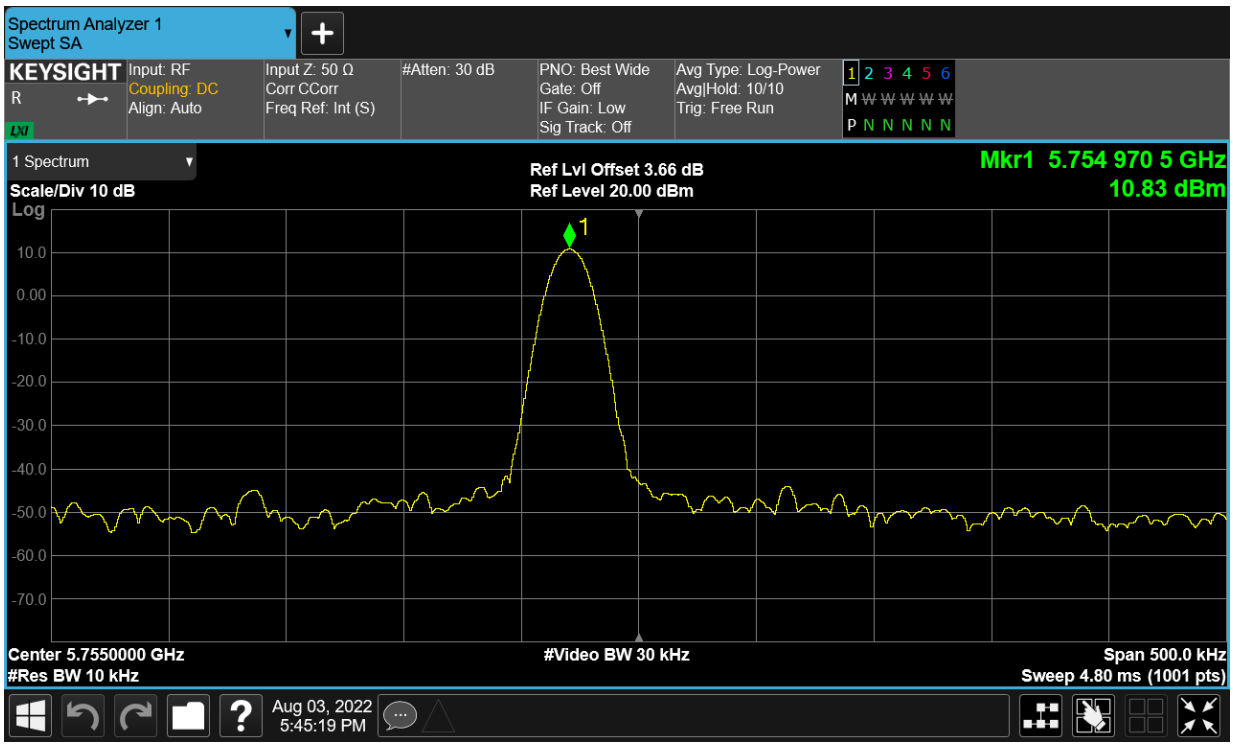
Freq. Stability NVNT ax20 5745MHz Sum



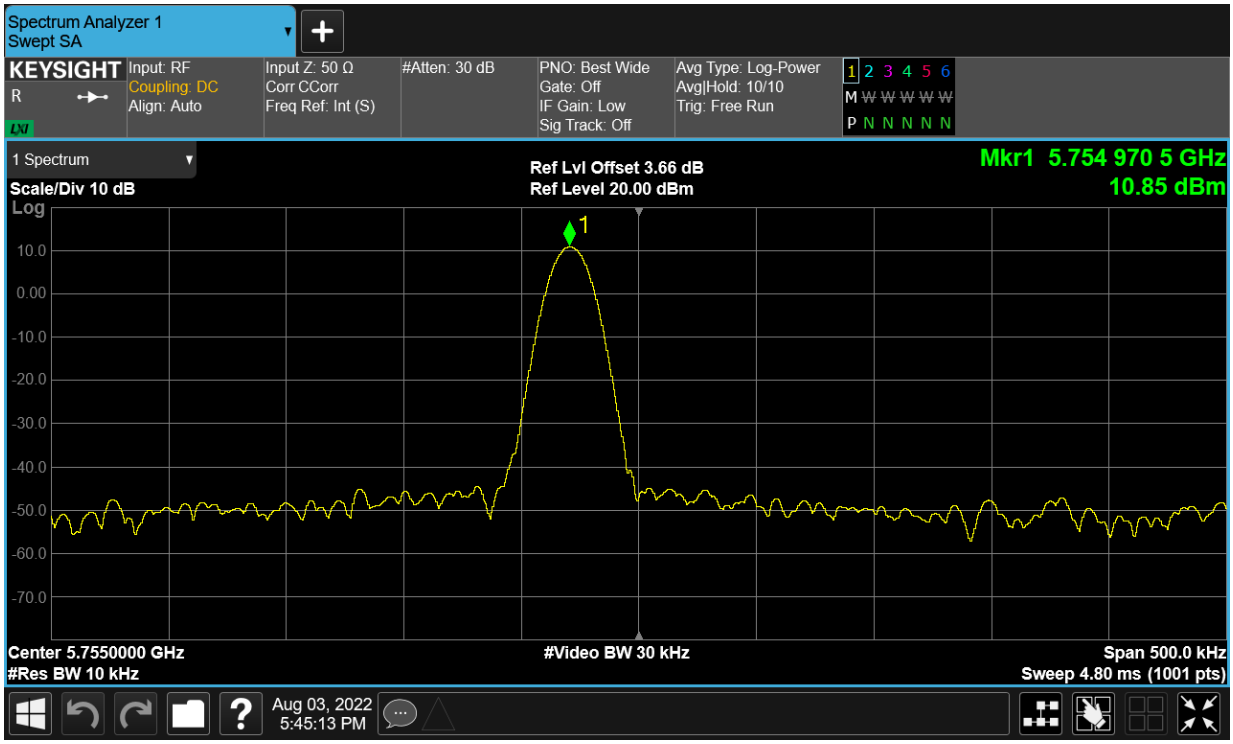
Freq. Stability HVNT ax40 5755MHz Sum



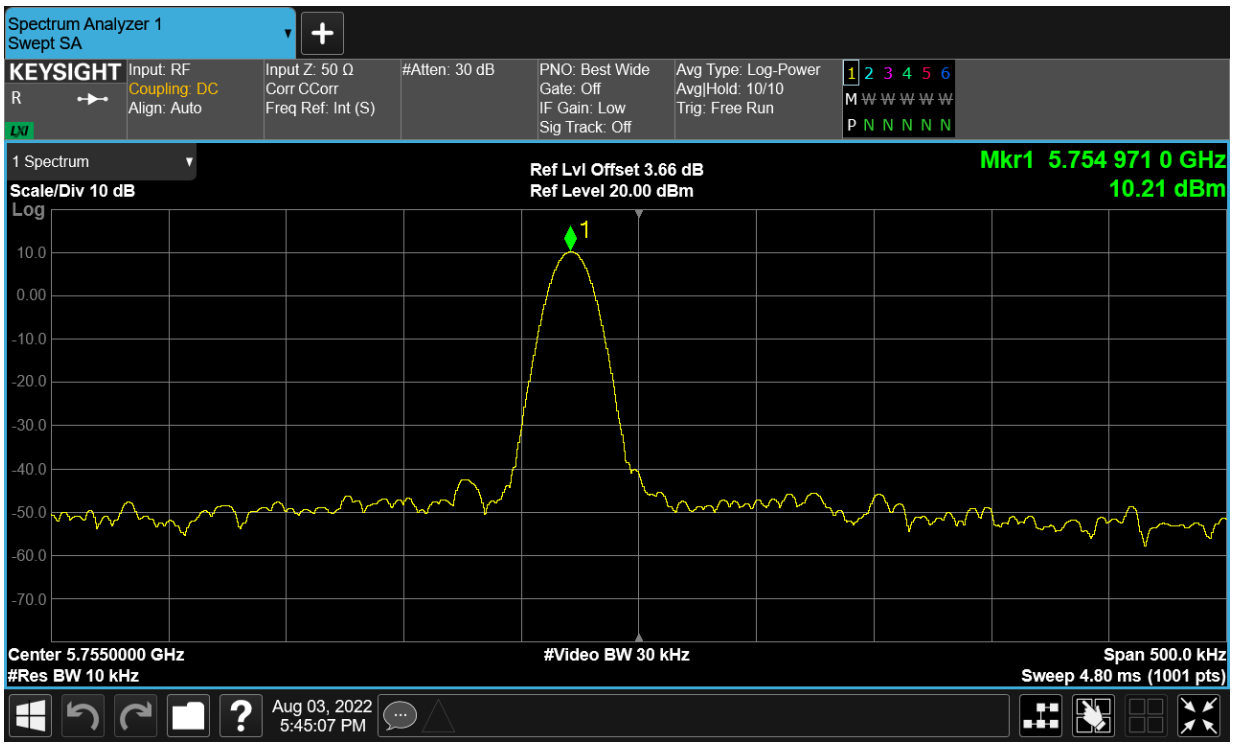
Freq. Stability LVNT ax40 5755MHz Sum



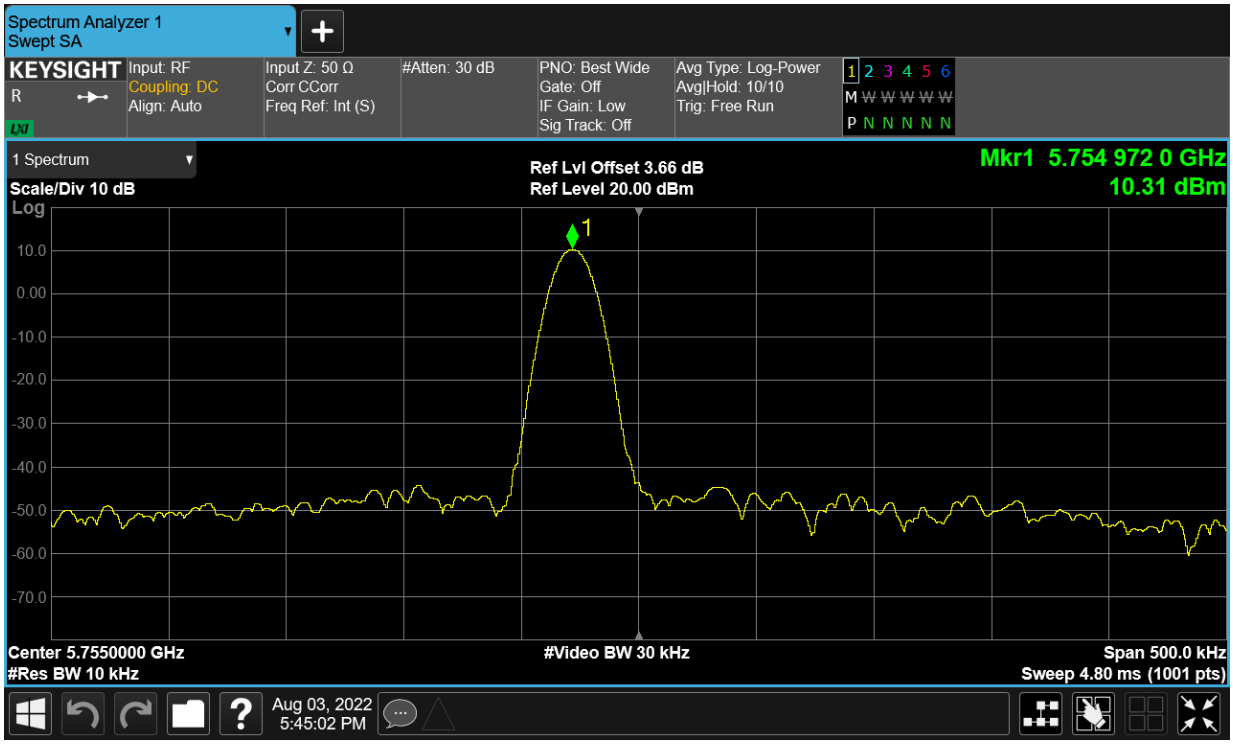
Freq. Stability NVHT ax40 5755MHz Sum



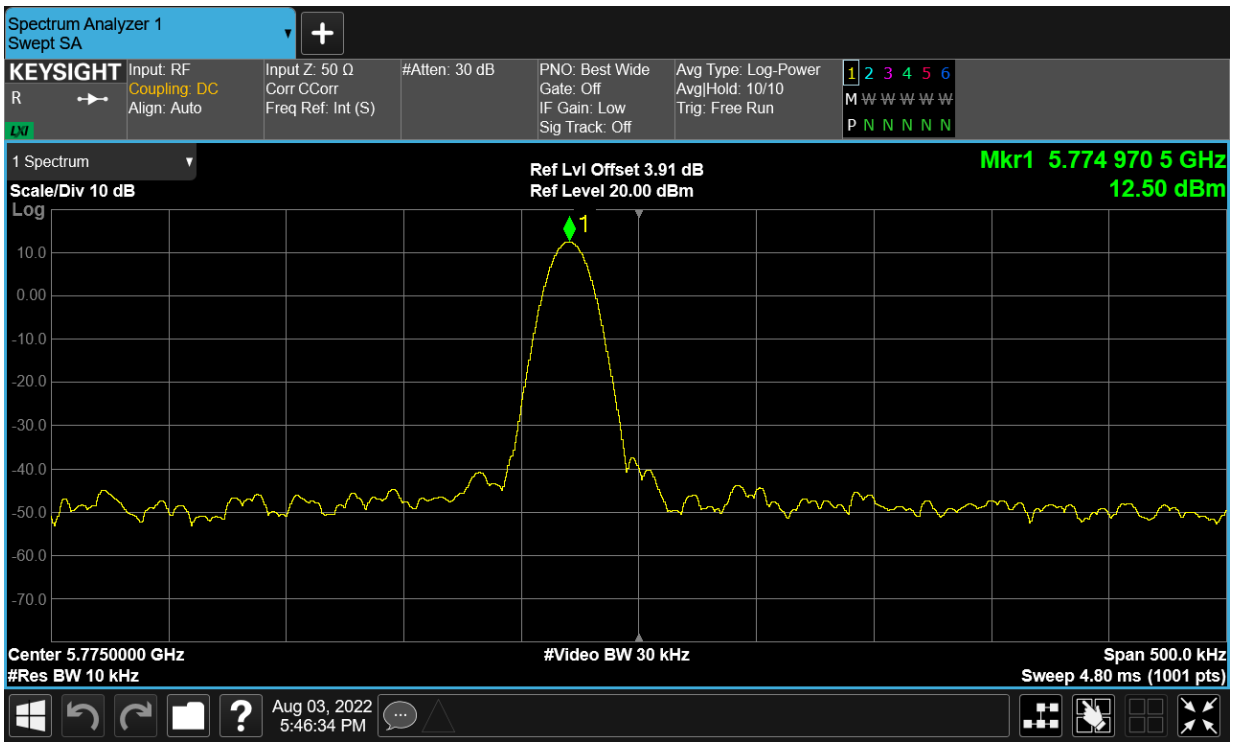
Freq. Stability NVLT ax40 5755MHz Sum



Freq. Stability NVNT ax40 5755MHz Sum

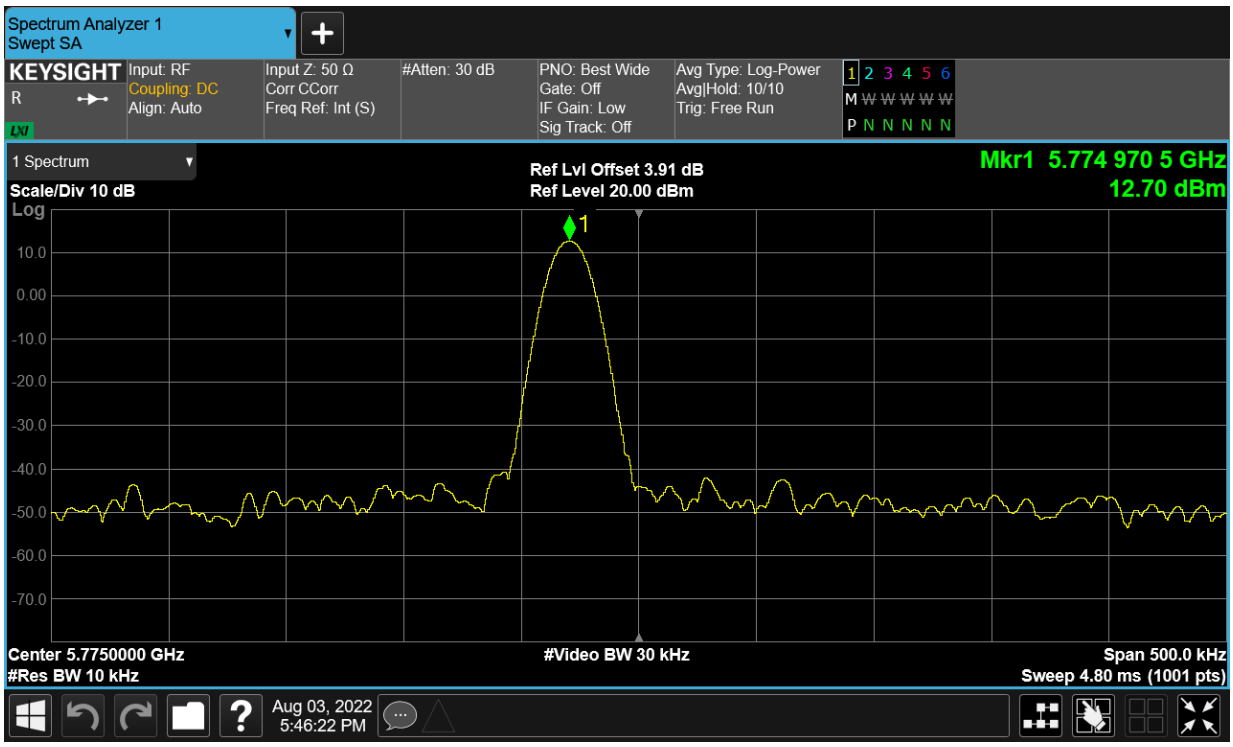


Freq. Stability HVNT ax80 5775MHz Sum



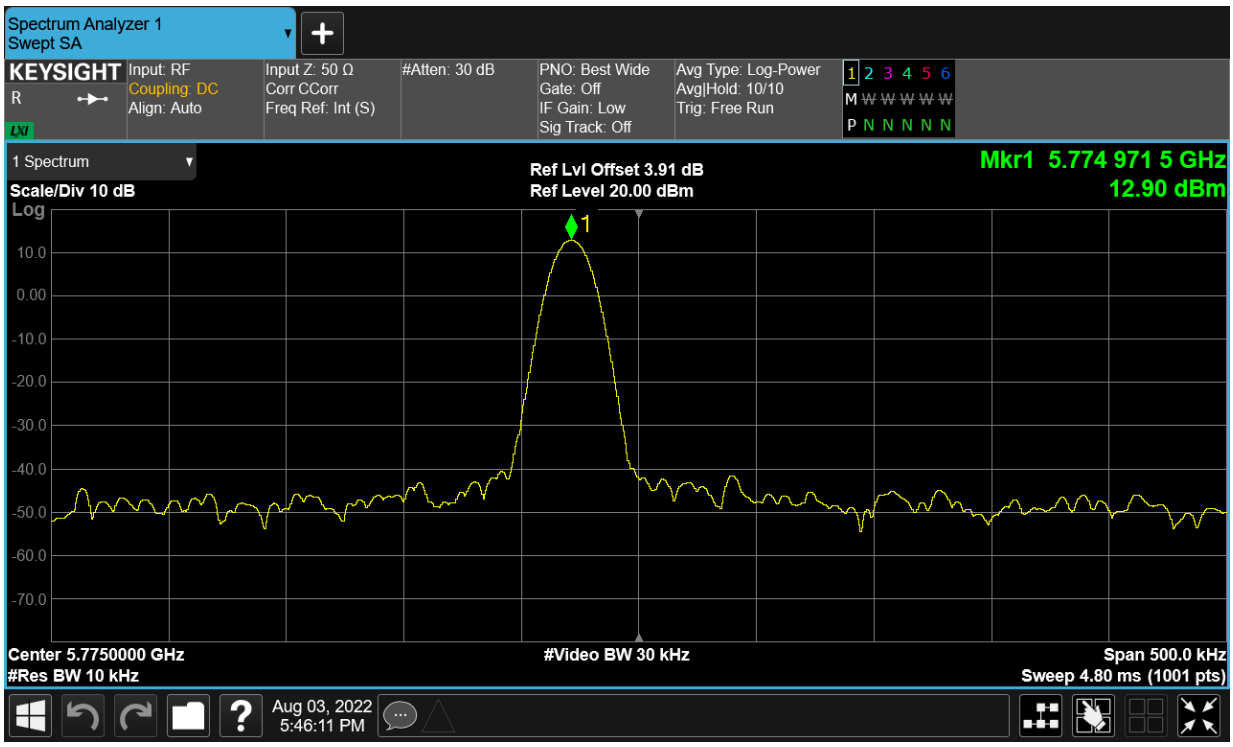
Freq. Stability LVNT ax80 5775MHz Sum

Freq. Stability NVHT ax80 5775MHz Sum

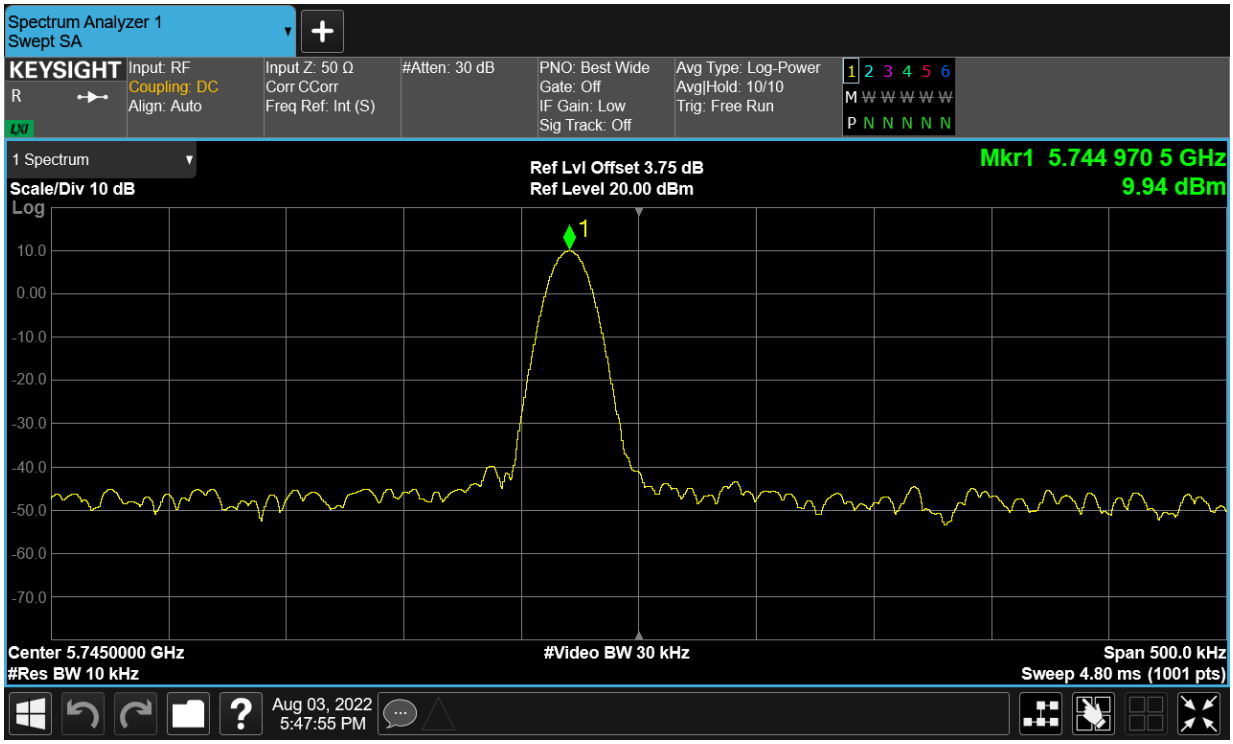


Freq. Stability NVLT ax80 5775MHz Sum

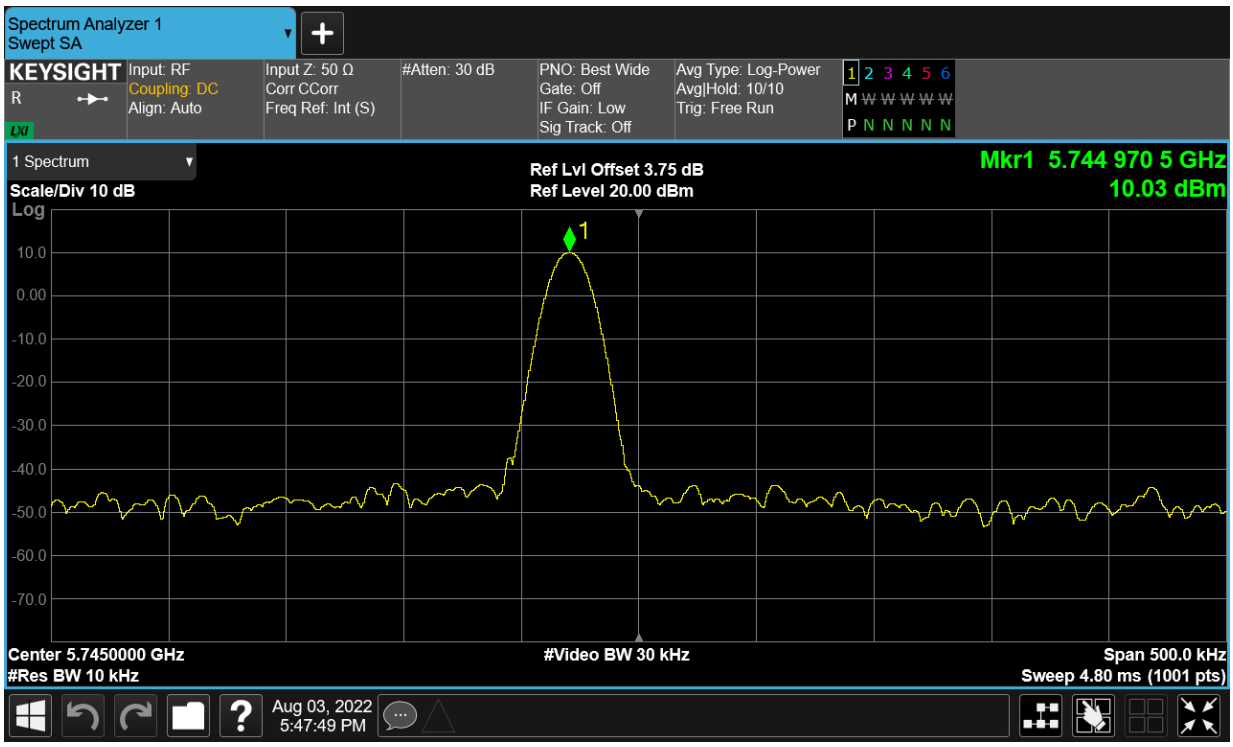
Freq. Stability NVNT ax80 5775MHz Sum



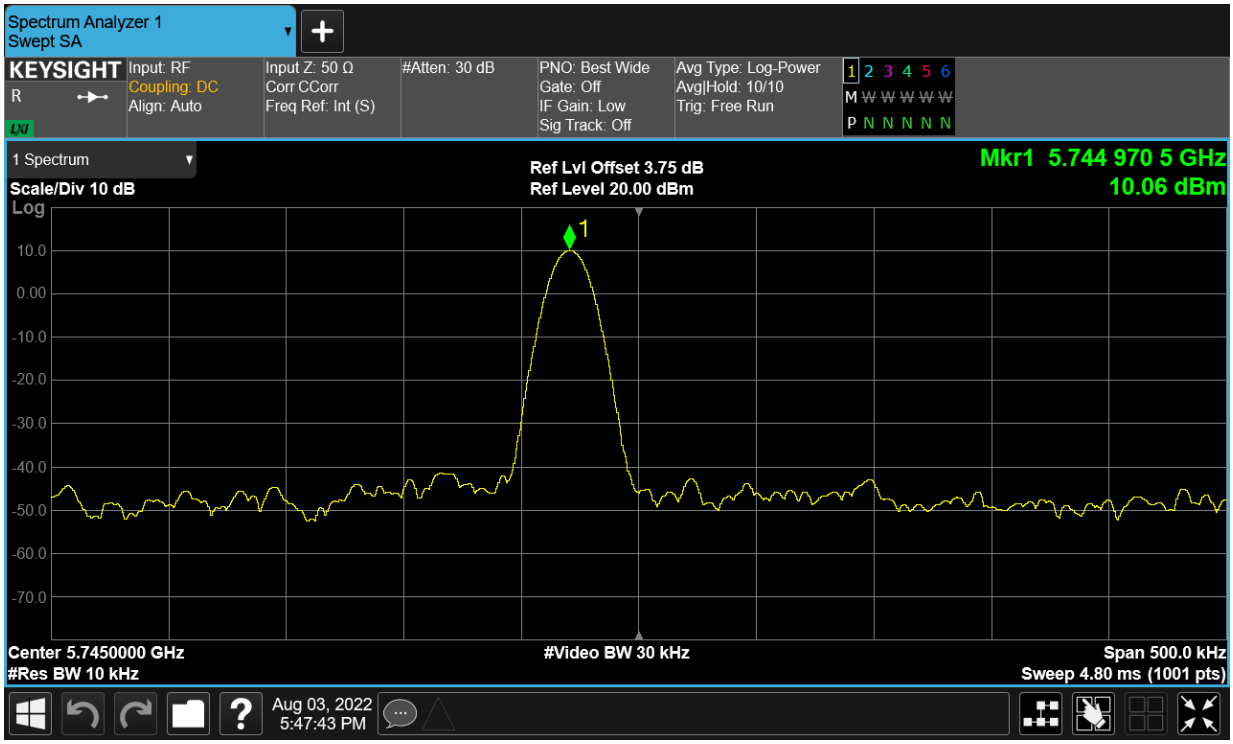
Freq. Stability HVNT n20 5745MHz Sum



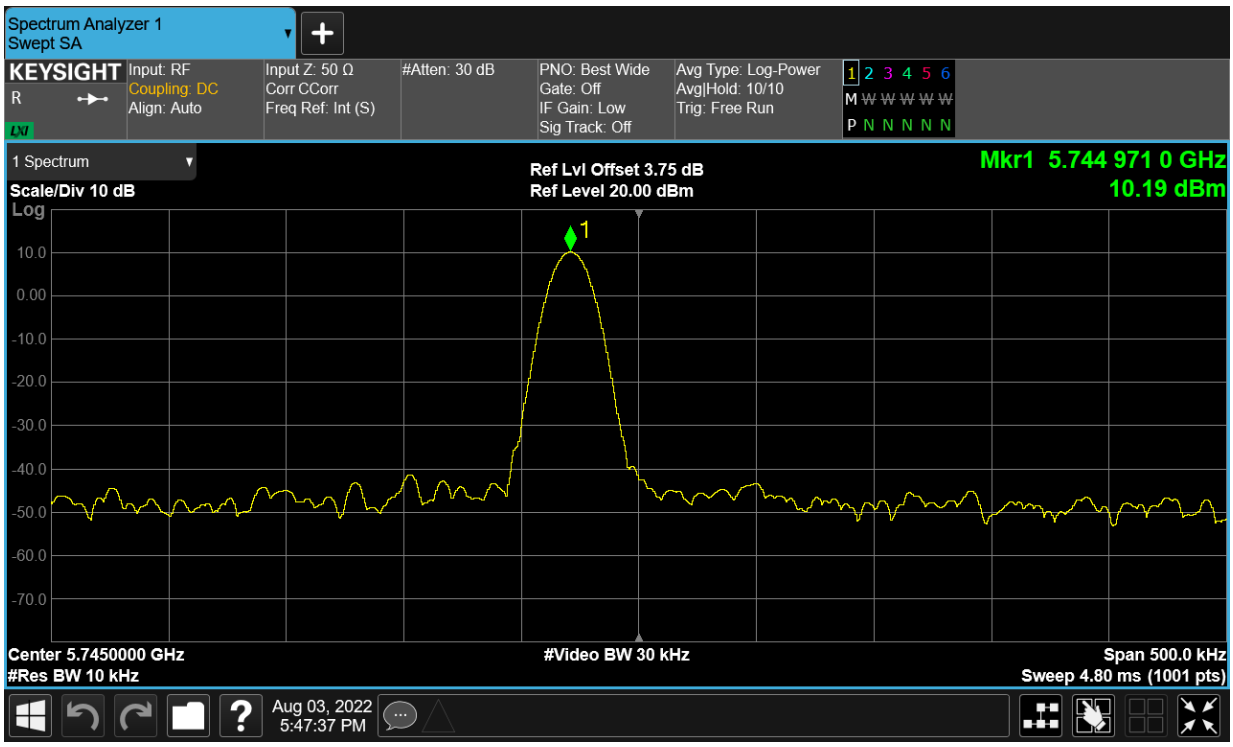
Freq. Stability LVNT n20 5745MHz Sum



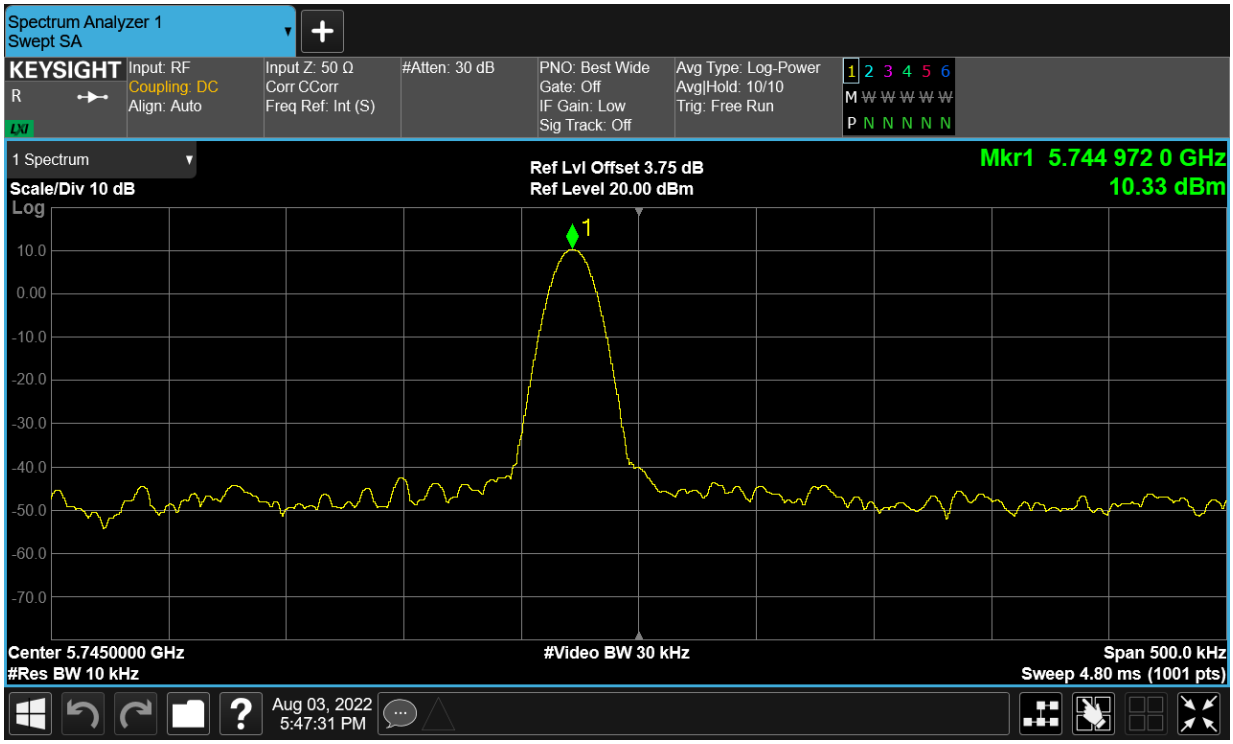
Freq. Stability NVHT n20 5745MHz Sum



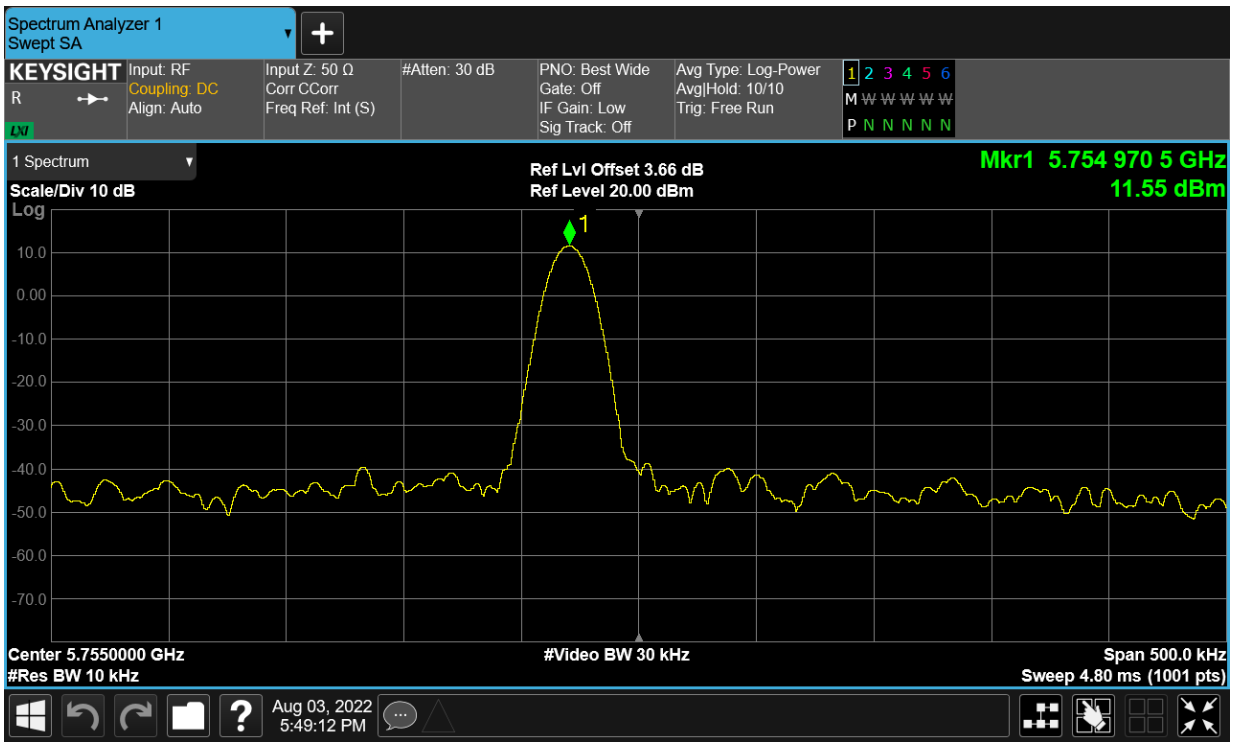
Freq. Stability NVLT n20 5745MHz Sum



Freq. Stability NVNT n20 5745MHz Sum

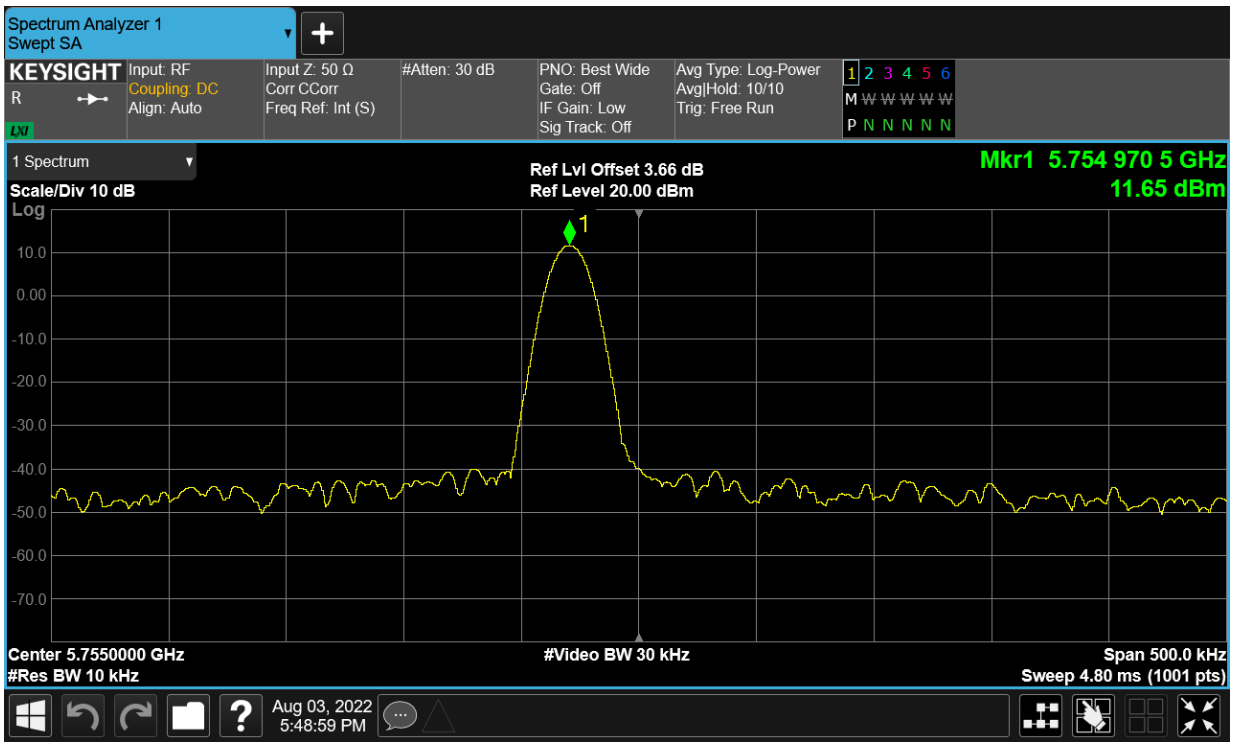


Freq. Stability HVNT n40 5755MHz Sum

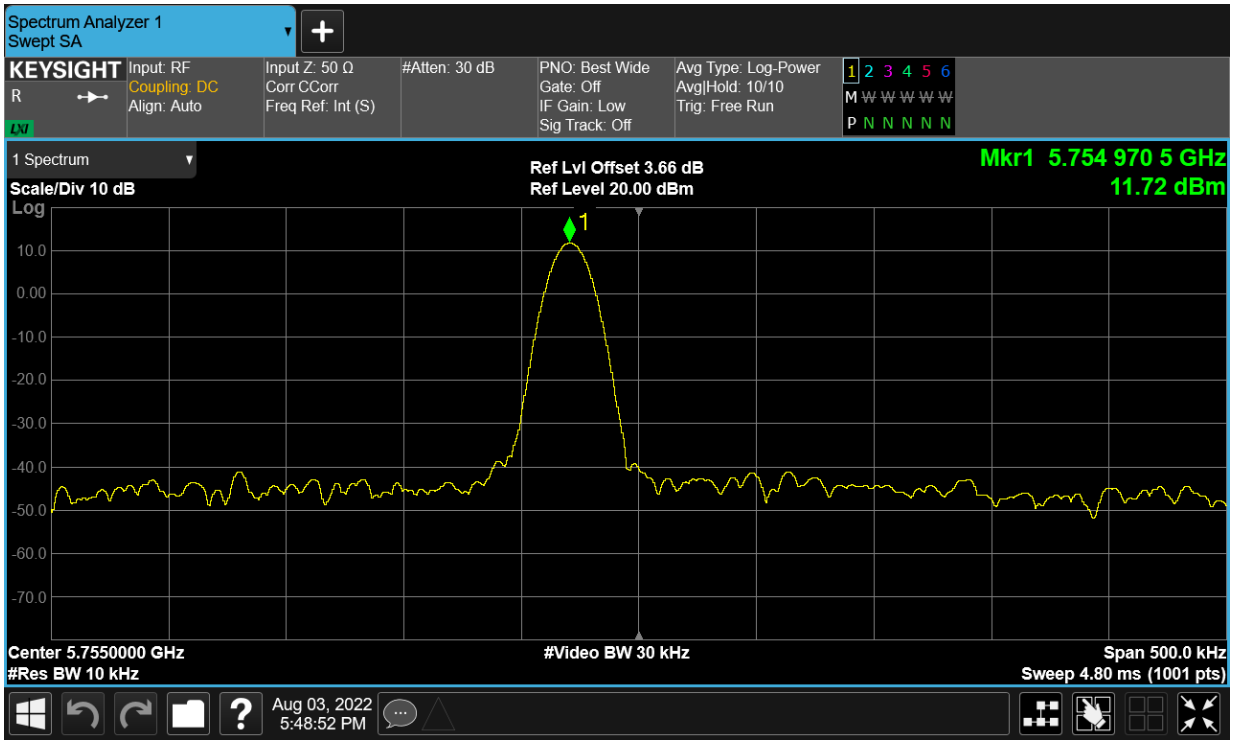


Freq. Stability LVNT n40 5755MHz Sum

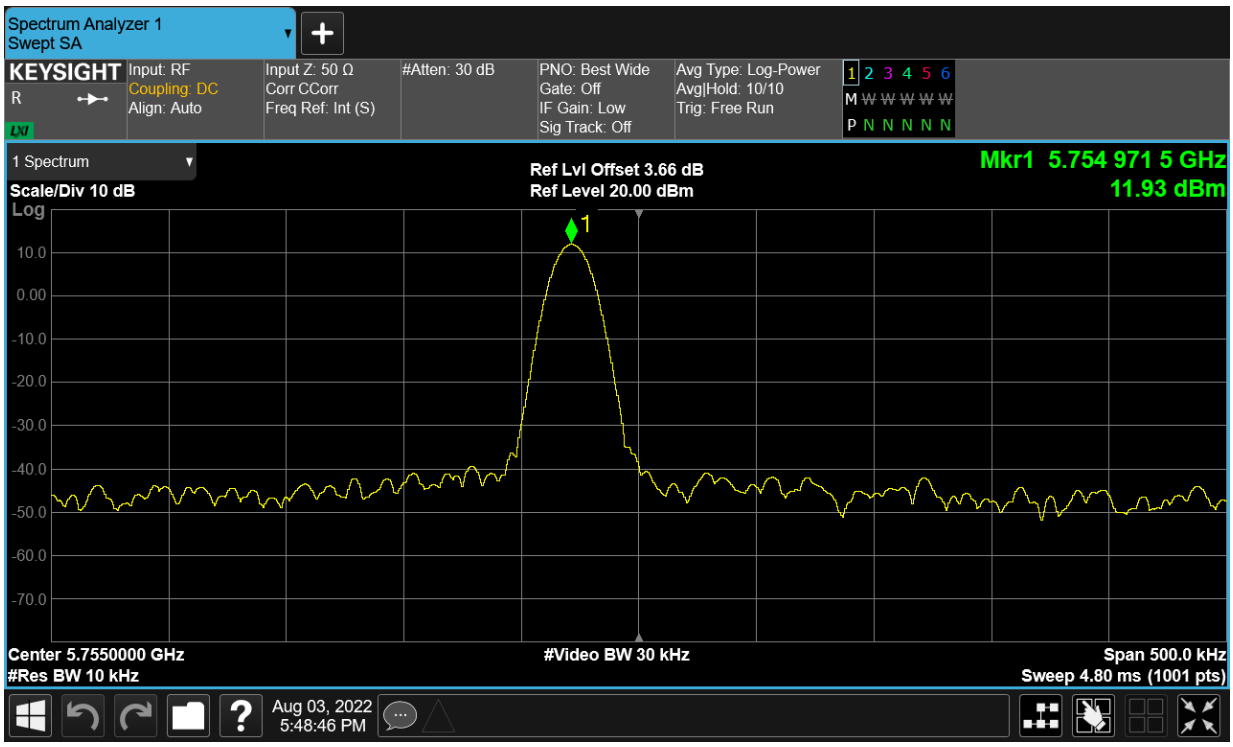
Freq. Stability NVHT n40 5755MHz Sum



Freq. Stability NVLT n40 5755MHz Sum



Freq. Stability NVNT n40 5755MHz Sum

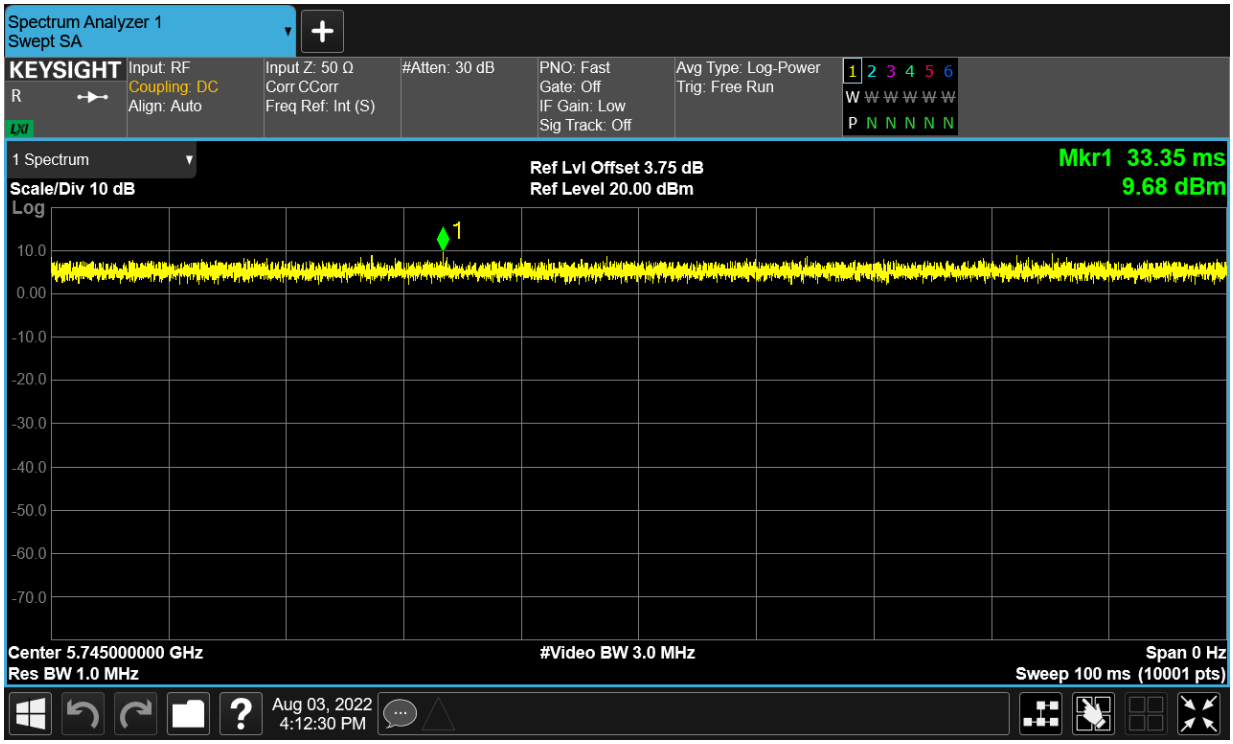


Duty Cycle

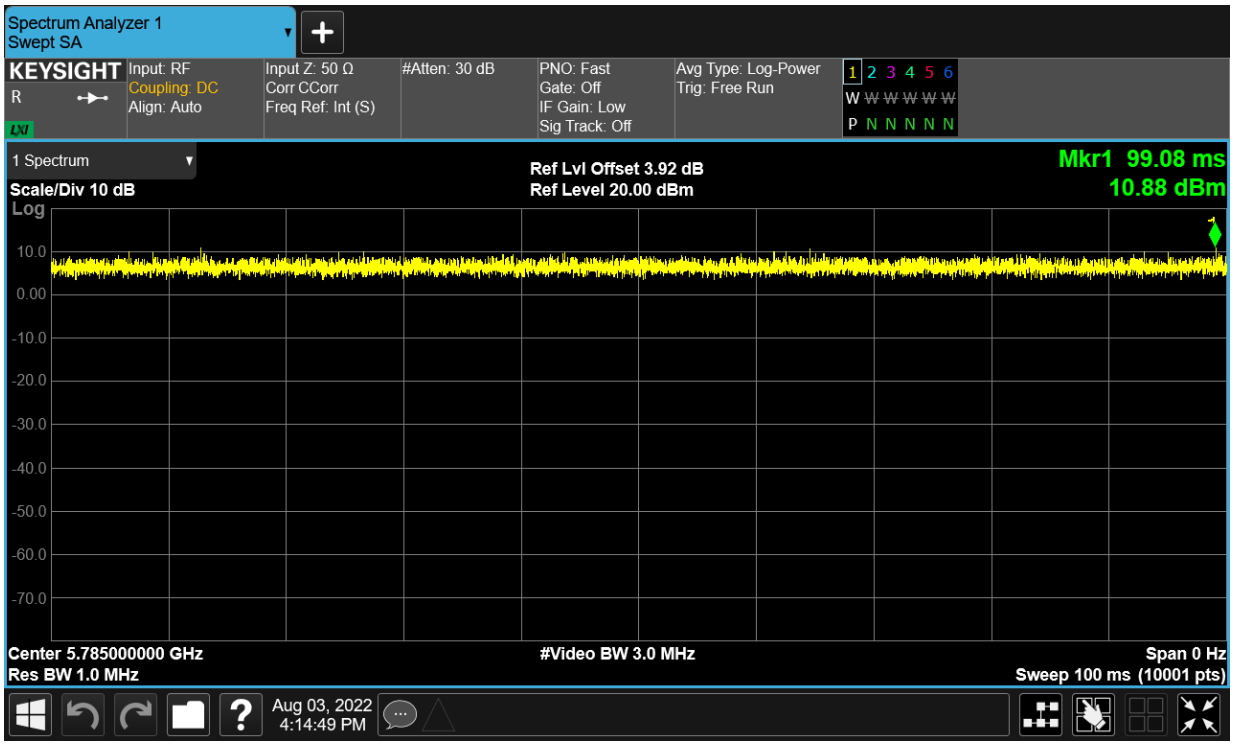
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	100	0
NVNT	a	5785	Ant1	100	0
NVNT	a	5825	Ant1	100	0
NVNT	a	5745	Ant2	100	0
NVNT	a	5785	Ant2	100	0
NVNT	a	5825	Ant2	100	0
NVNT	ac20	5745	Sum	100	0
NVNT	ac20	5785	Sum	100	0
NVNT	ac20	5825	Sum	100	0
NVNT	ac40	5755	Sum	100	0
NVNT	ac40	5795	Sum	100	0
NVNT	ac80	5775	Sum	100	0
NVNT	ax20	5745	Sum	100	0
NVNT	ax20	5785	Sum	100	0
NVNT	ax20	5825	Sum	100	0
NVNT	ax40	5755	Sum	100	0
NVNT	ax40	5795	Sum	100	0
NVNT	ax80	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

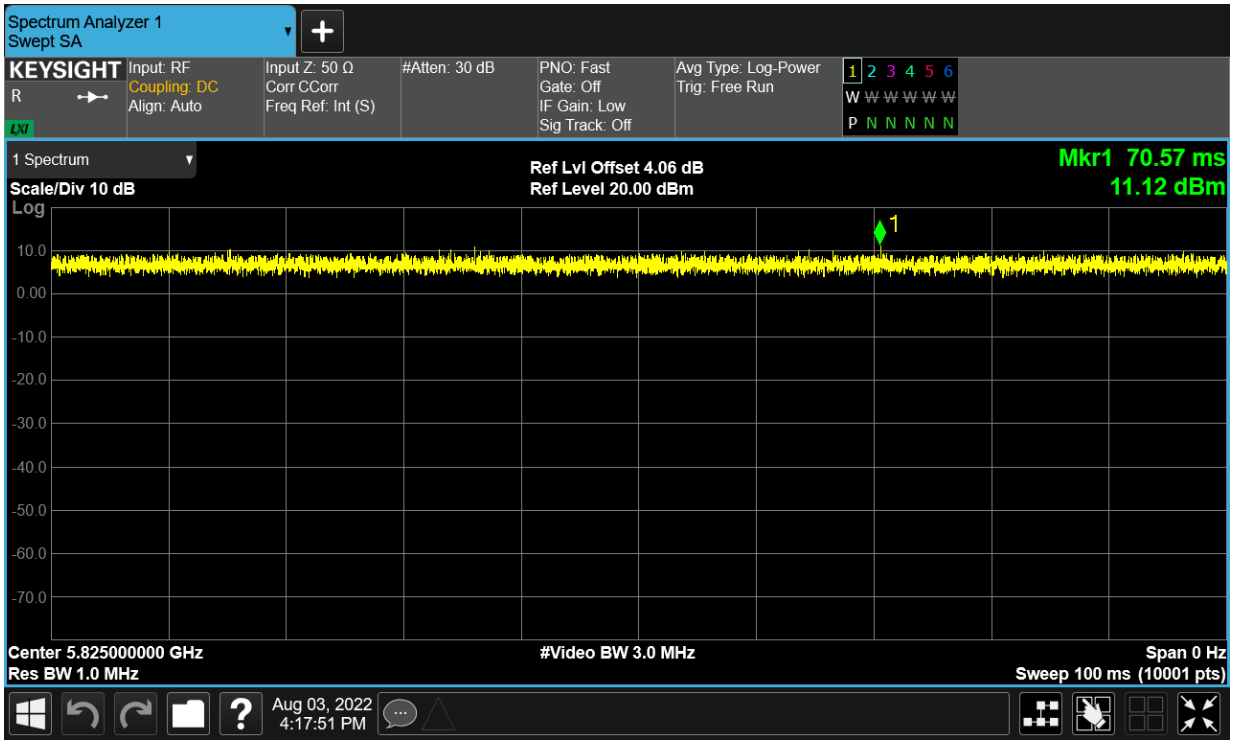
Duty Cycle NVNT a 5745MHz Ant1



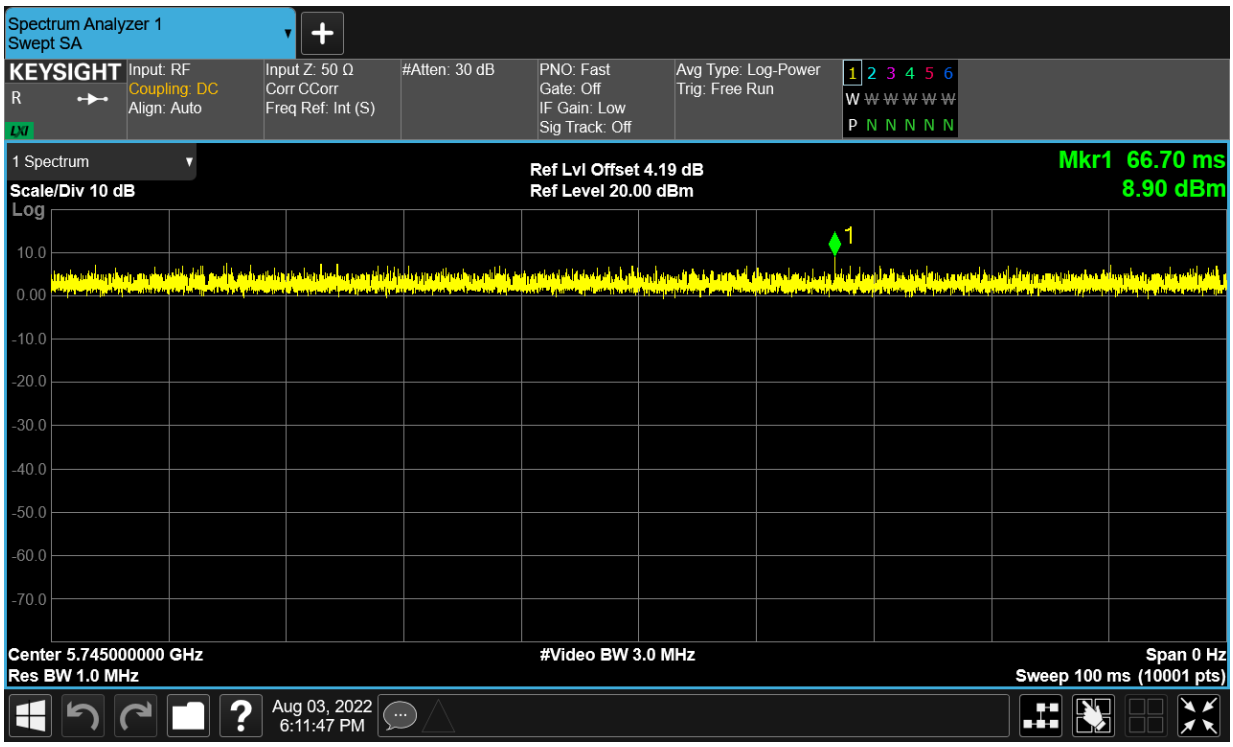
Duty Cycle NVNT a 5785MHz Ant1



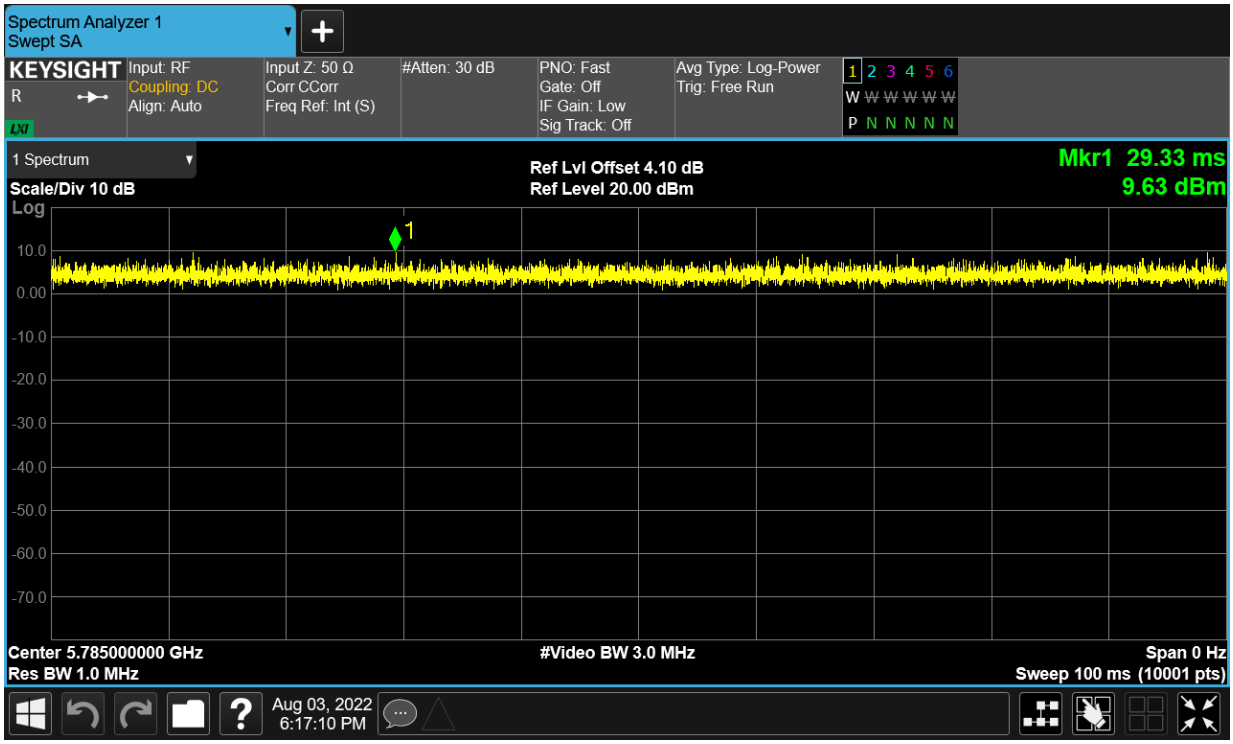
Duty Cycle NVNT a 5825MHz Ant1



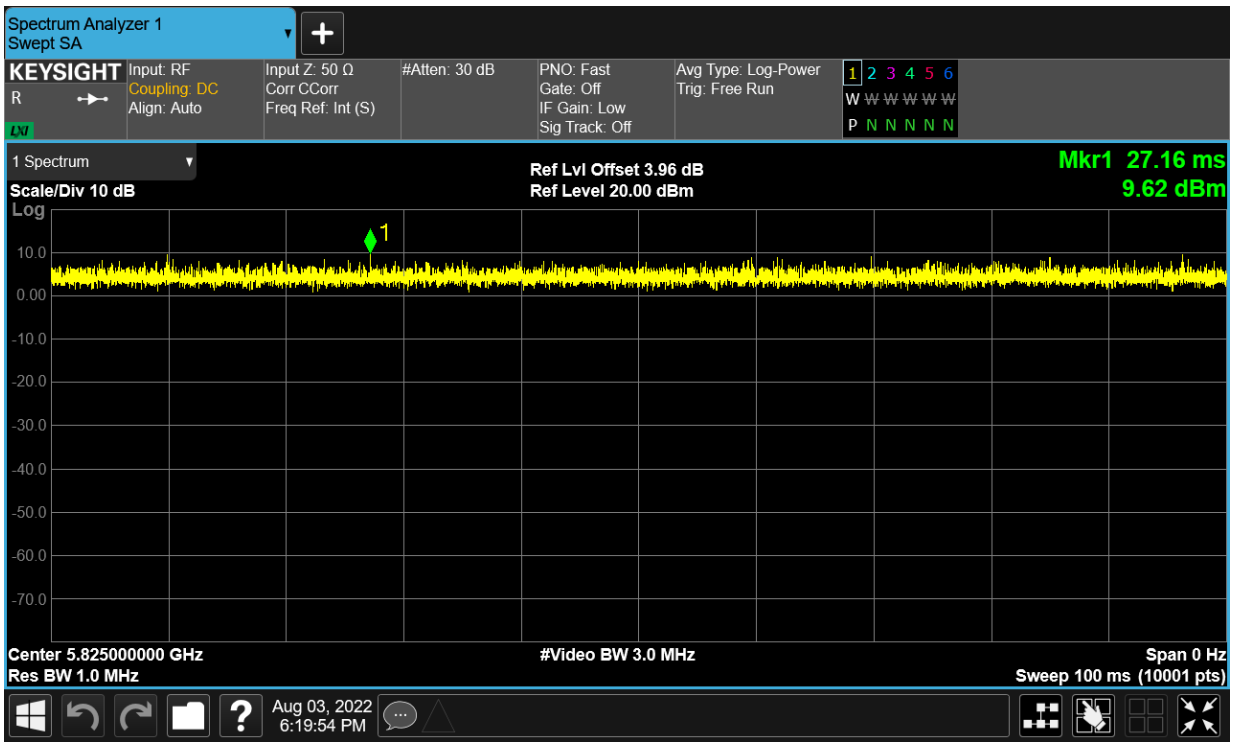
Duty Cycle NVNT a 5745MHz Ant2



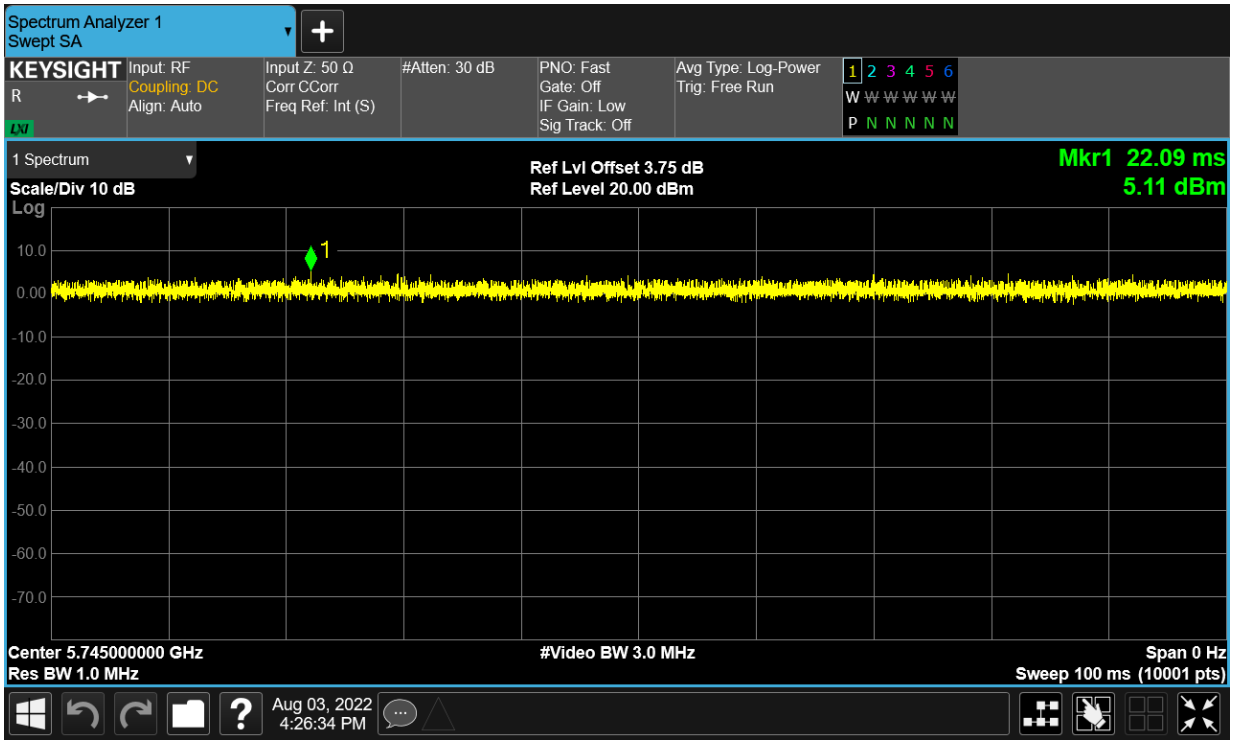
Duty Cycle NVNT a 5785MHz Ant2



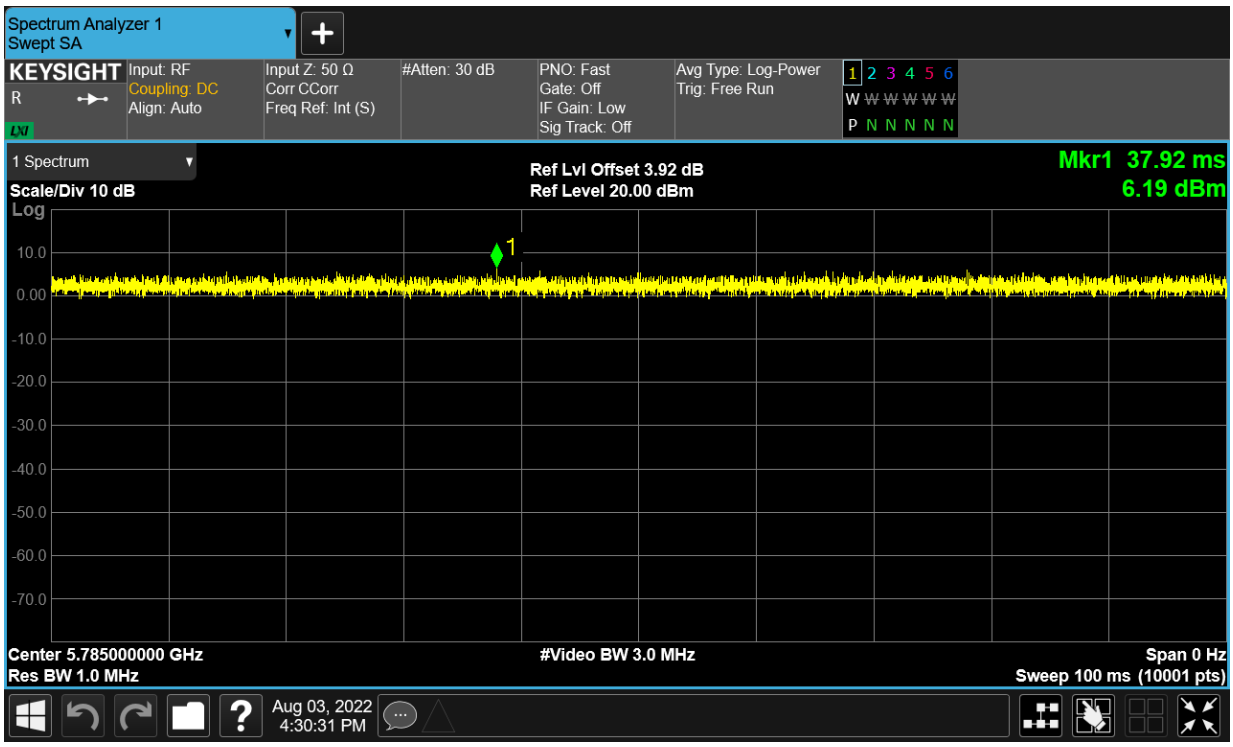
Duty Cycle NVNT a 5825MHz Ant2



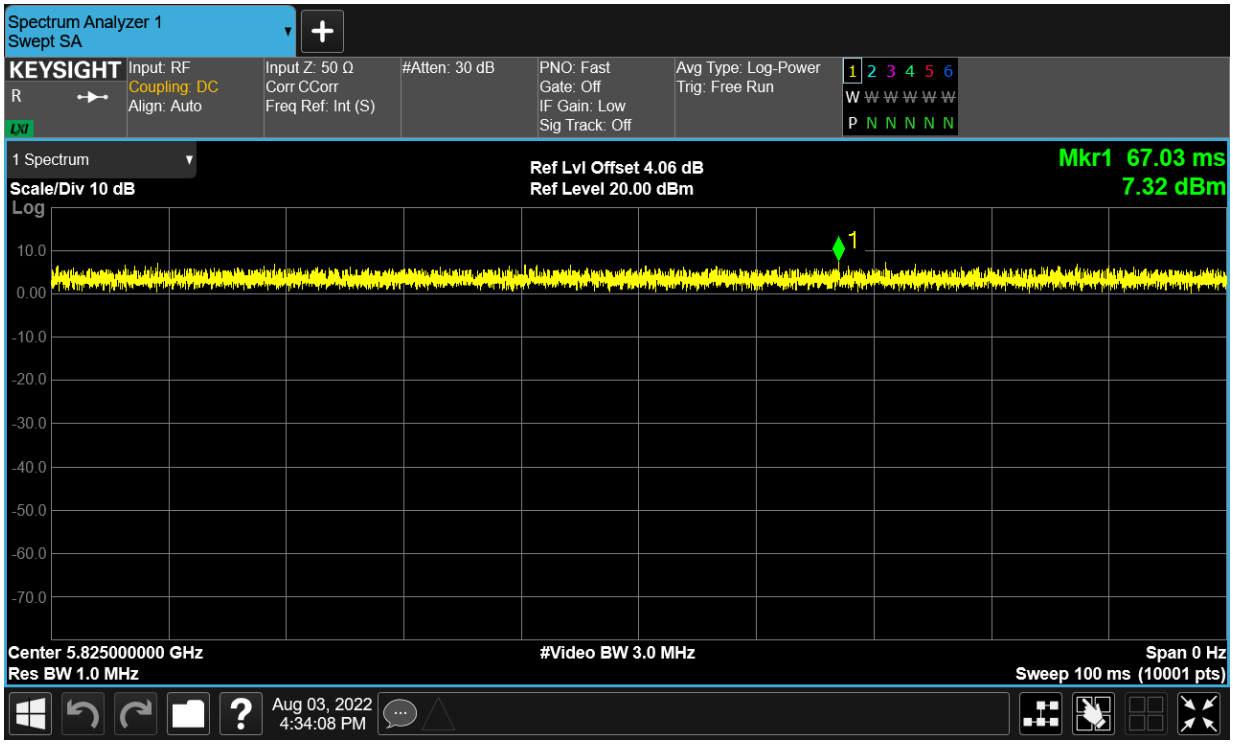
Duty Cycle NVNT ac20 5745MHz Sum



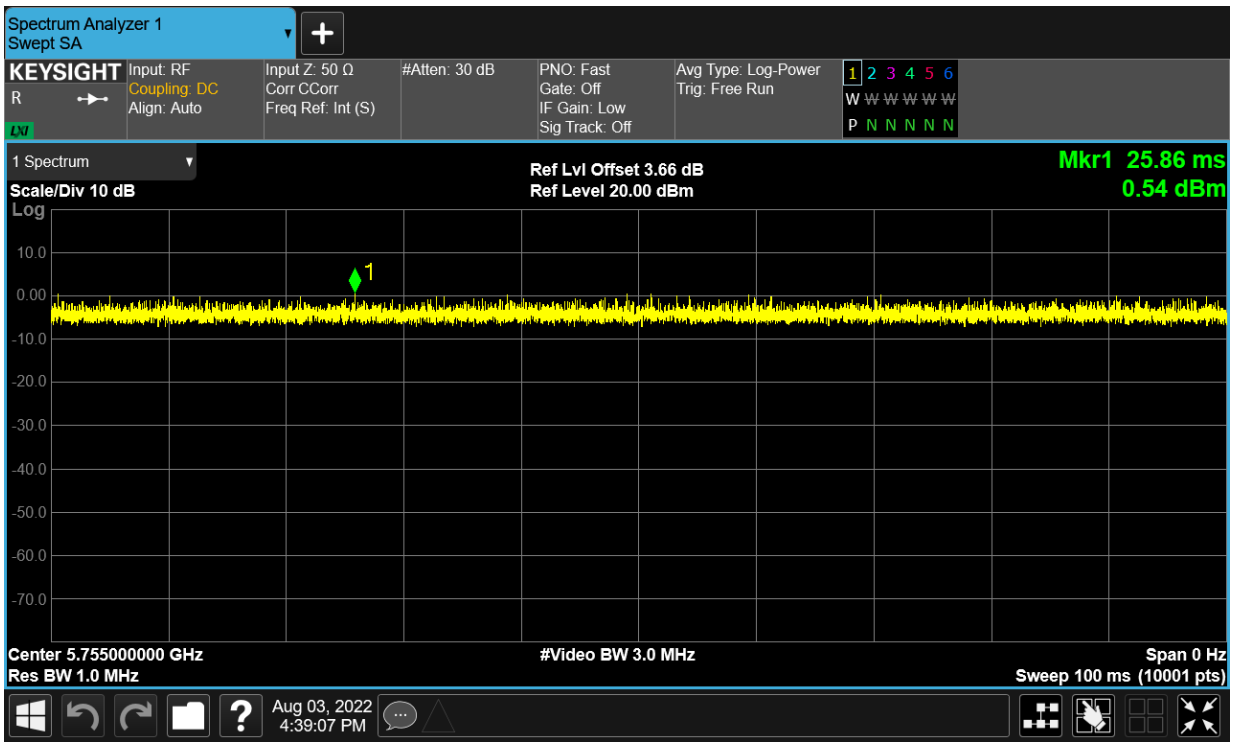
Duty Cycle NVNT ac20 5785MHz Sum



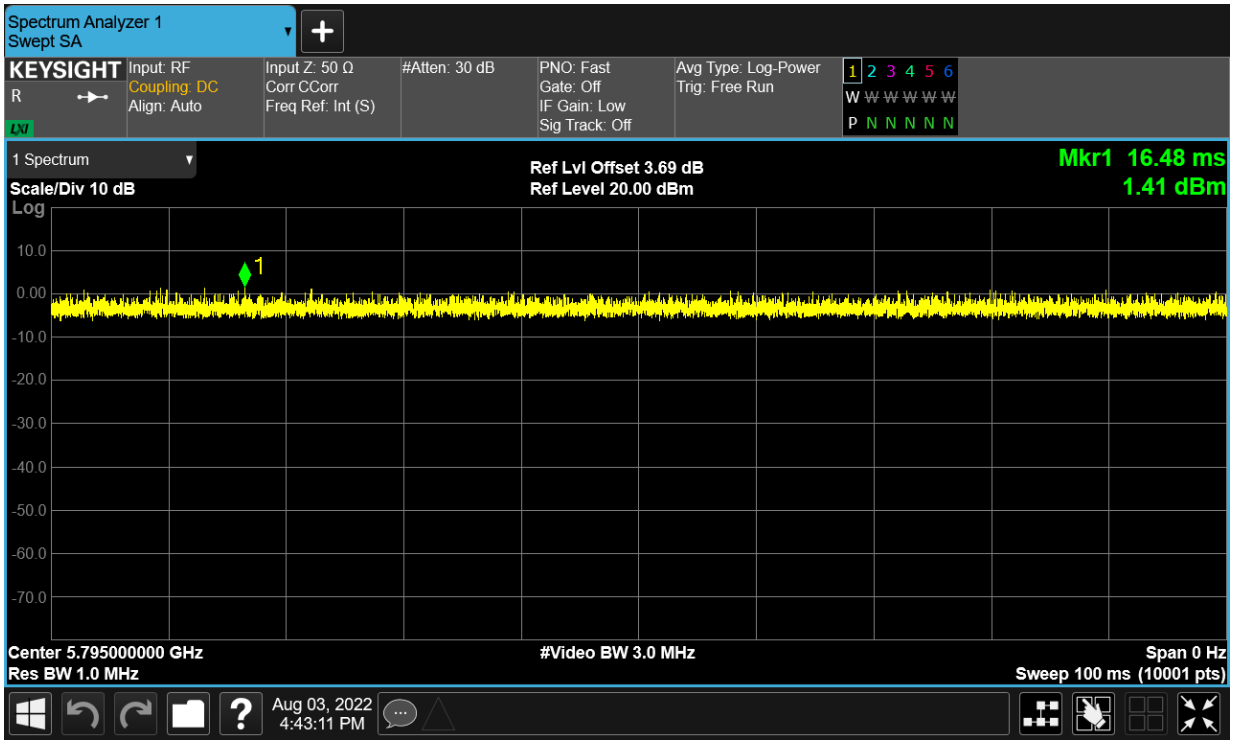
Duty Cycle NVNT ac20 5825MHz Sum



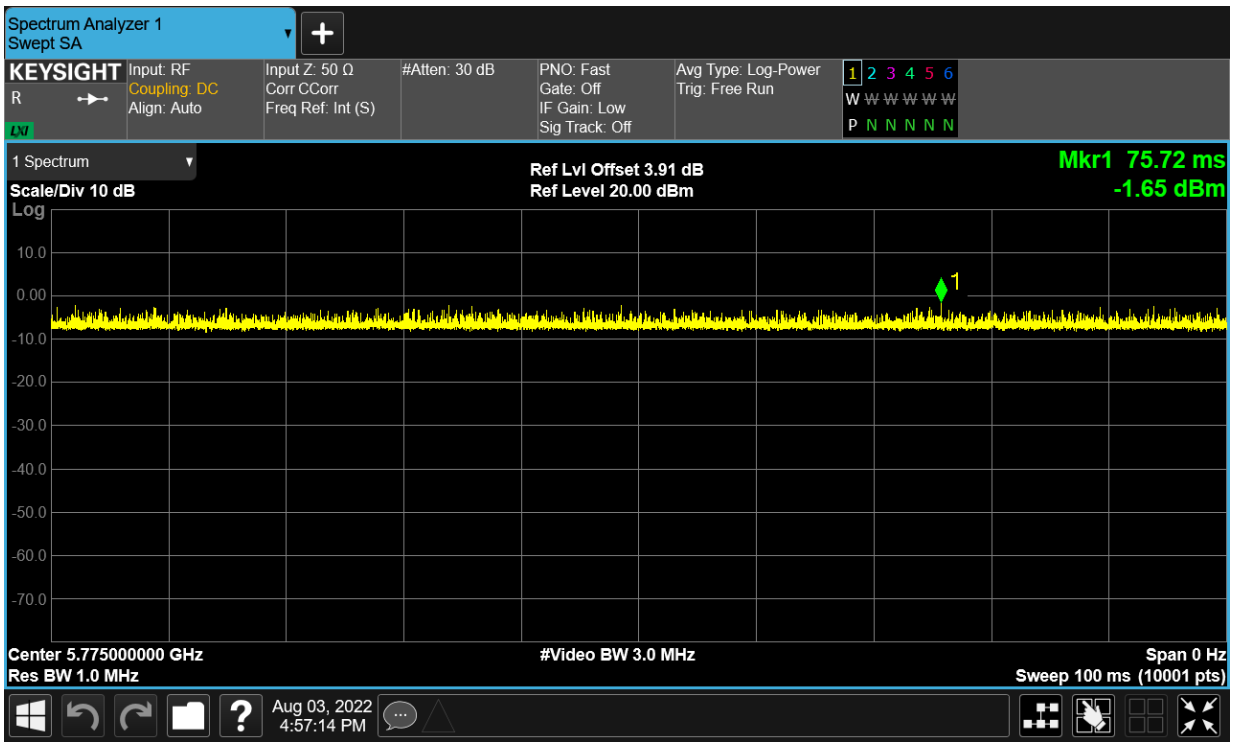
Duty Cycle NVNT ac40 5755MHz Sum



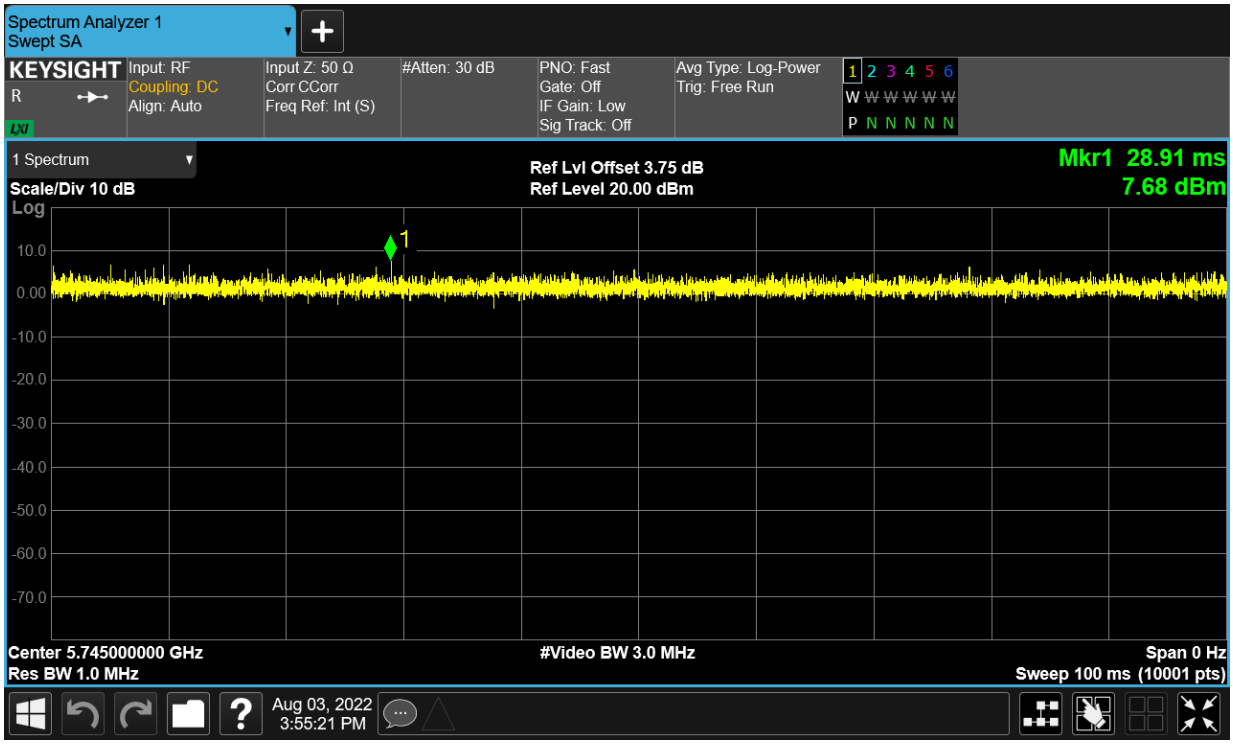
Duty Cycle NVNT ac40 5795MHz Sum



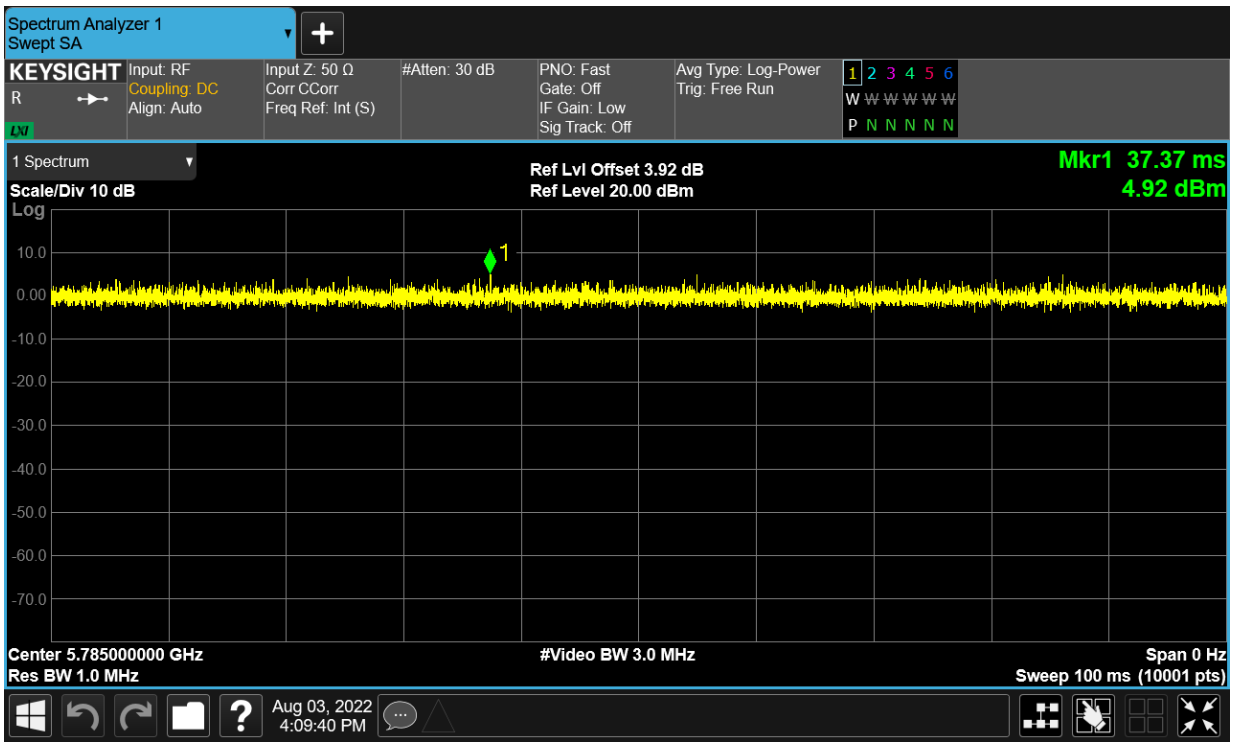
Duty Cycle NVNT ac80 5775MHz Sum



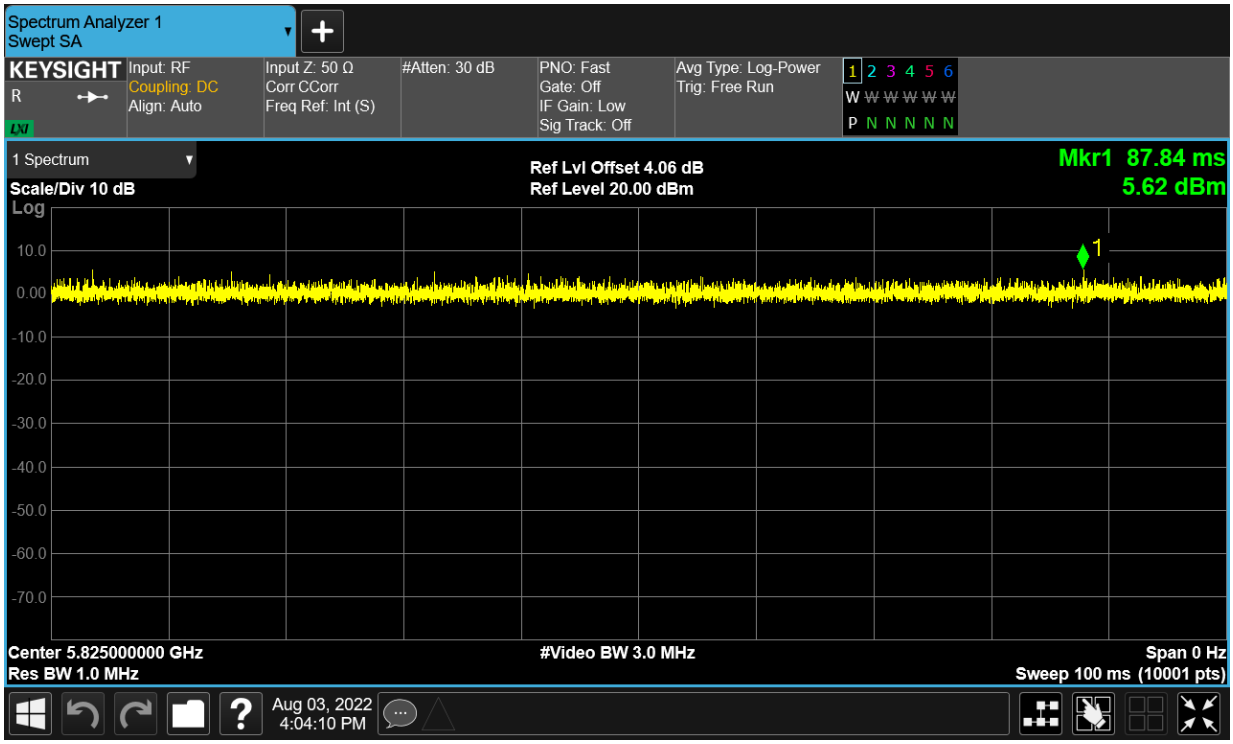
Duty Cycle NVNT ax20 5745MHz Sum



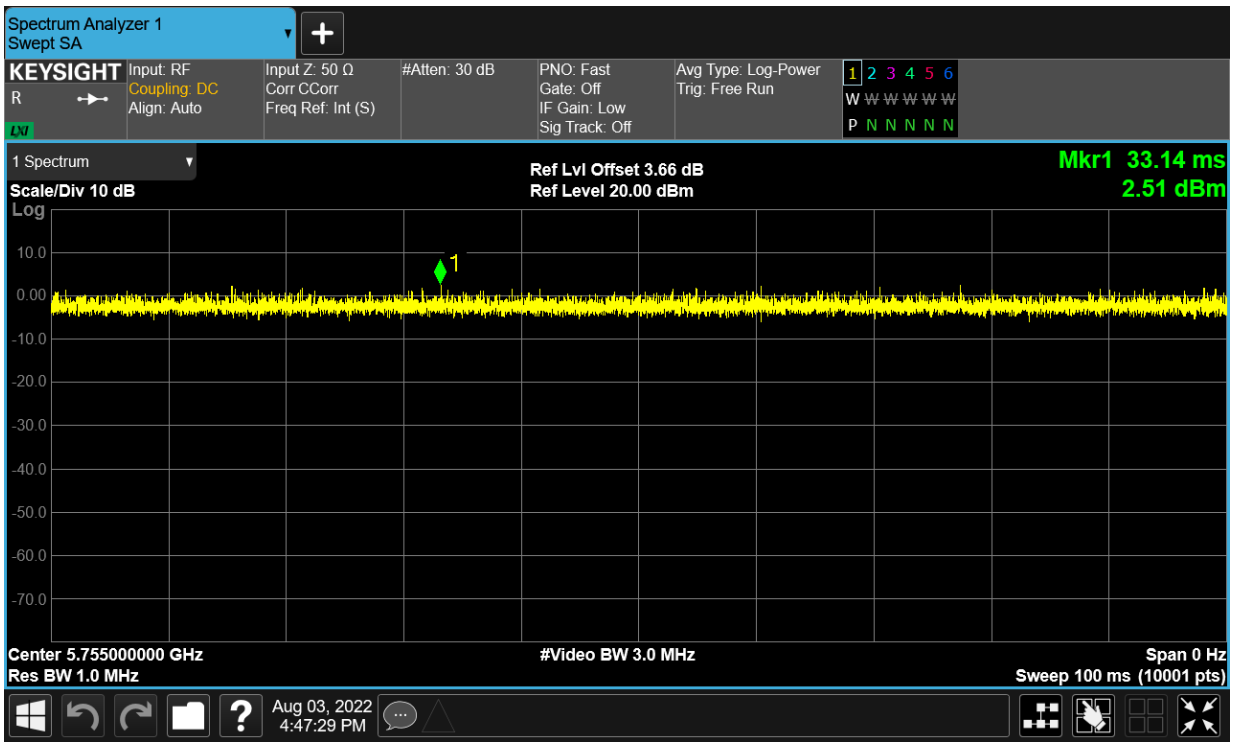
Duty Cycle NVNT ax20 5785MHz Sum



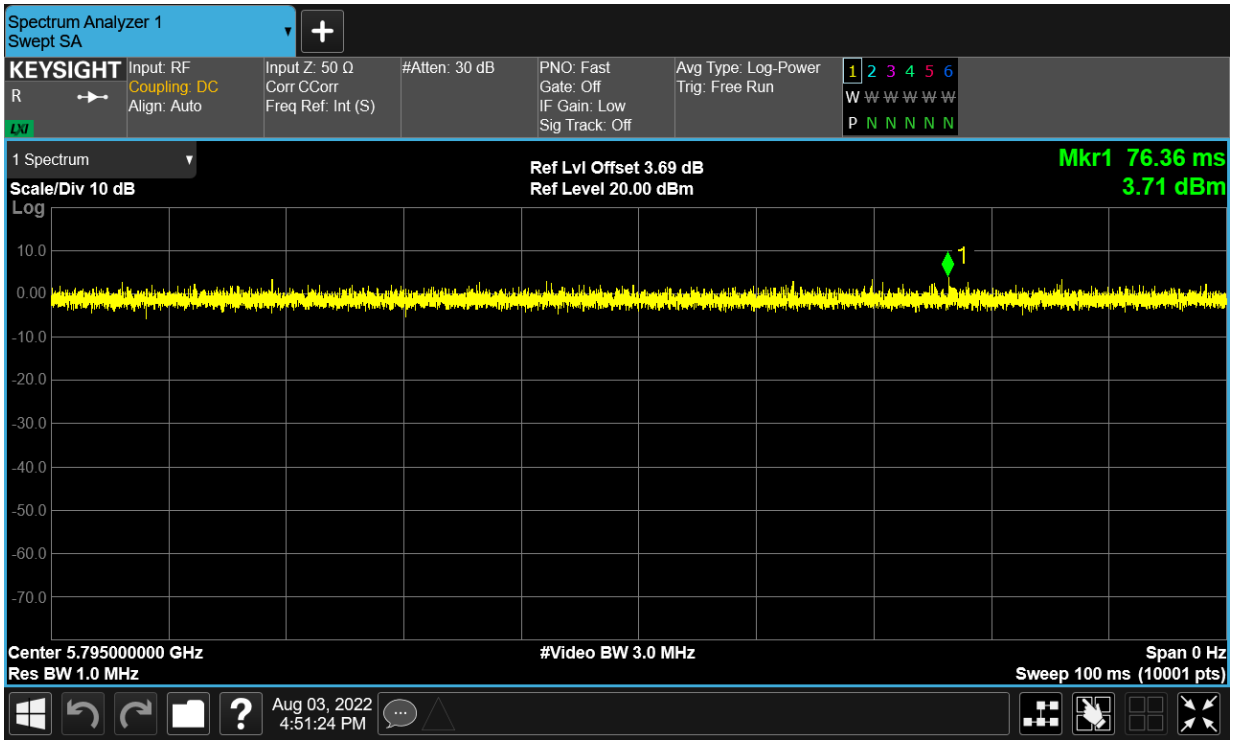
Duty Cycle NVNT ax20 5825MHz Sum



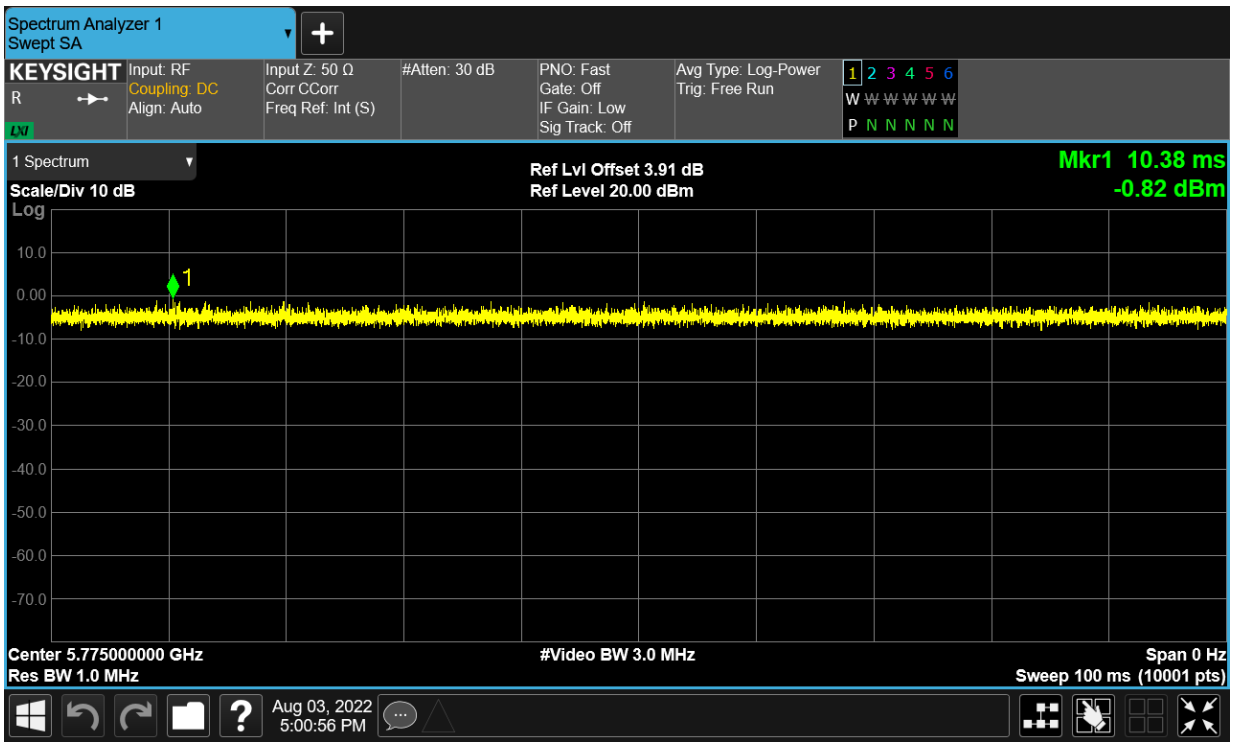
Duty Cycle NVNT ax40 5755MHz Sum



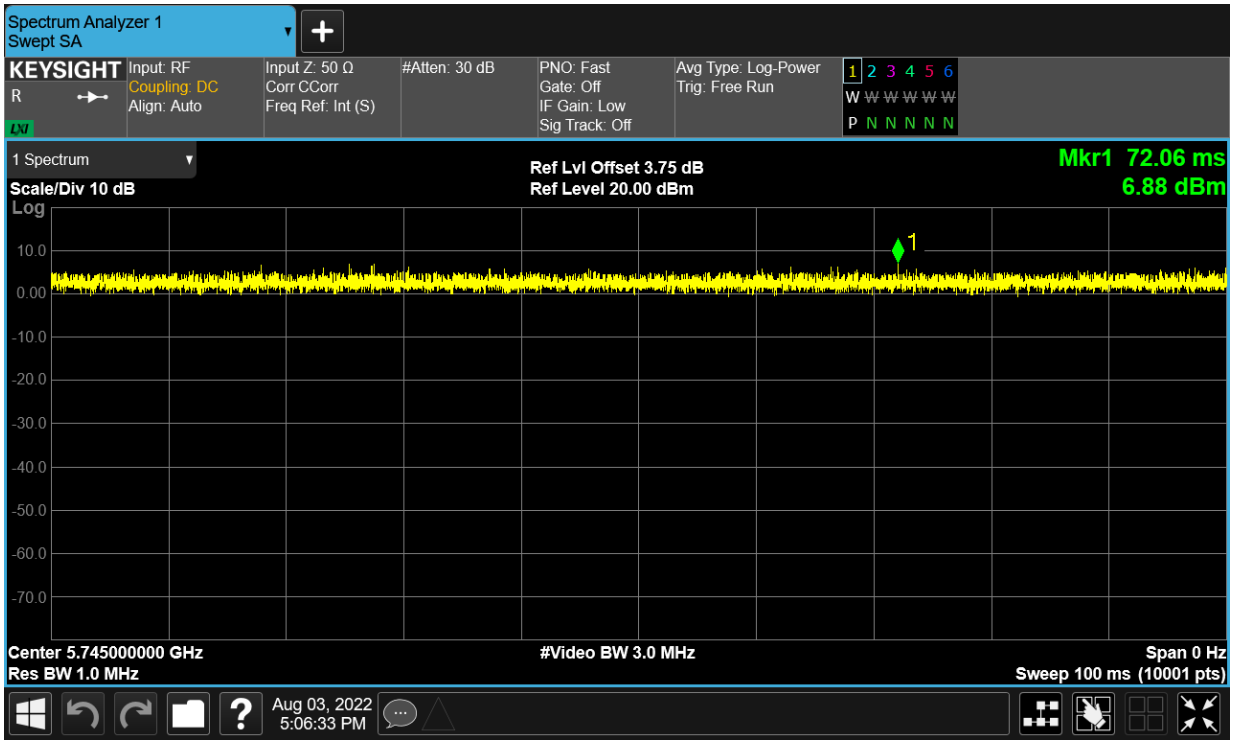
Duty Cycle NVNT ax40 5795MHz Sum



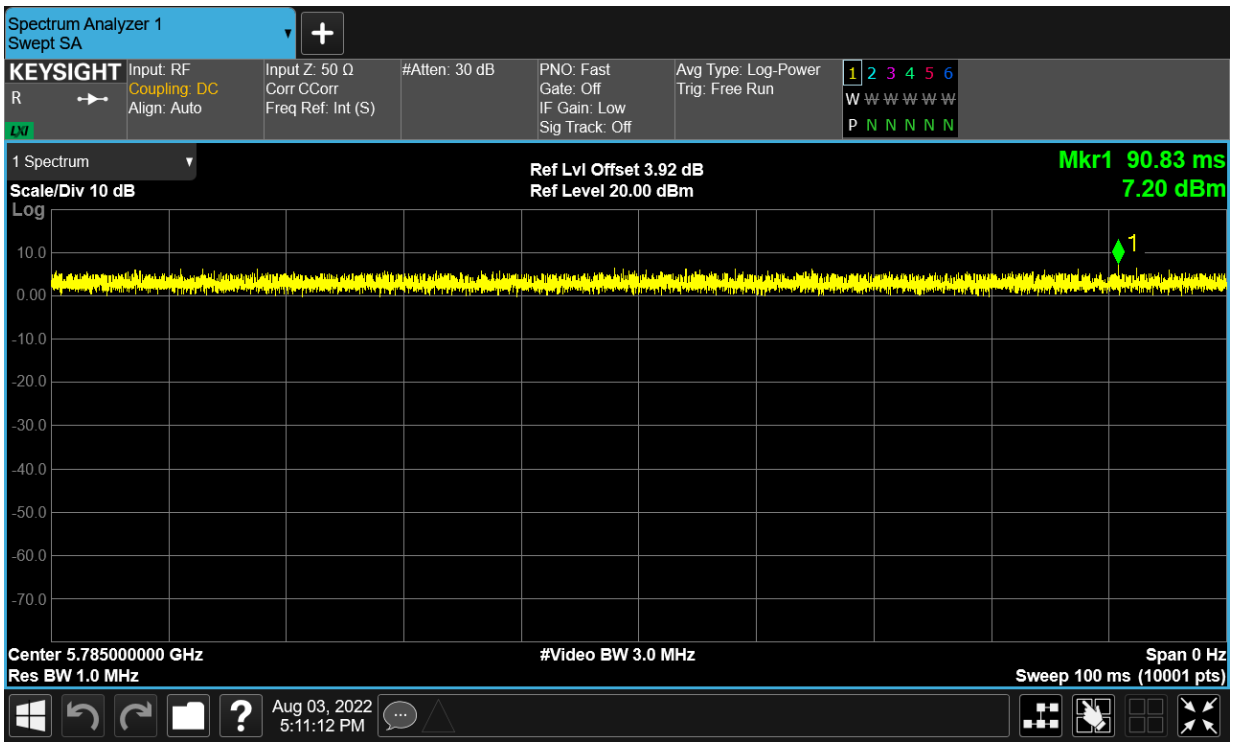
Duty Cycle NVNT ax80 5775MHz Sum



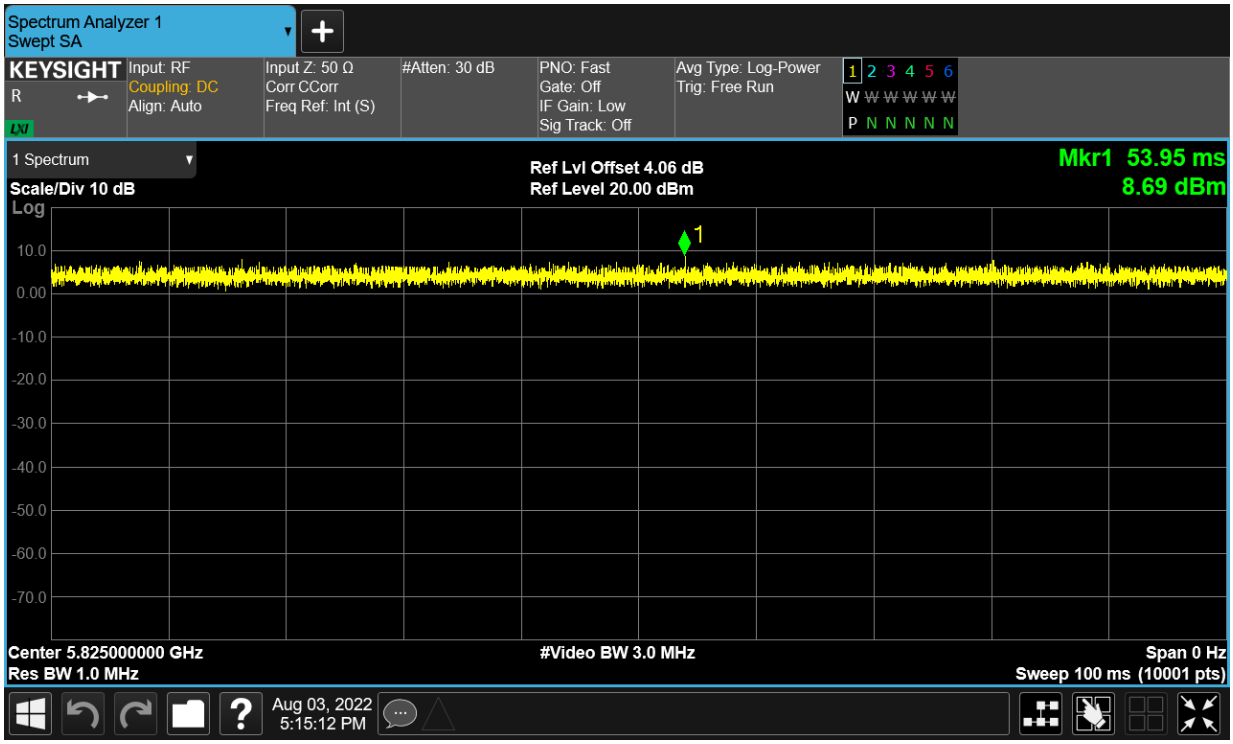
Duty Cycle NVNT n20 5745MHz Sum



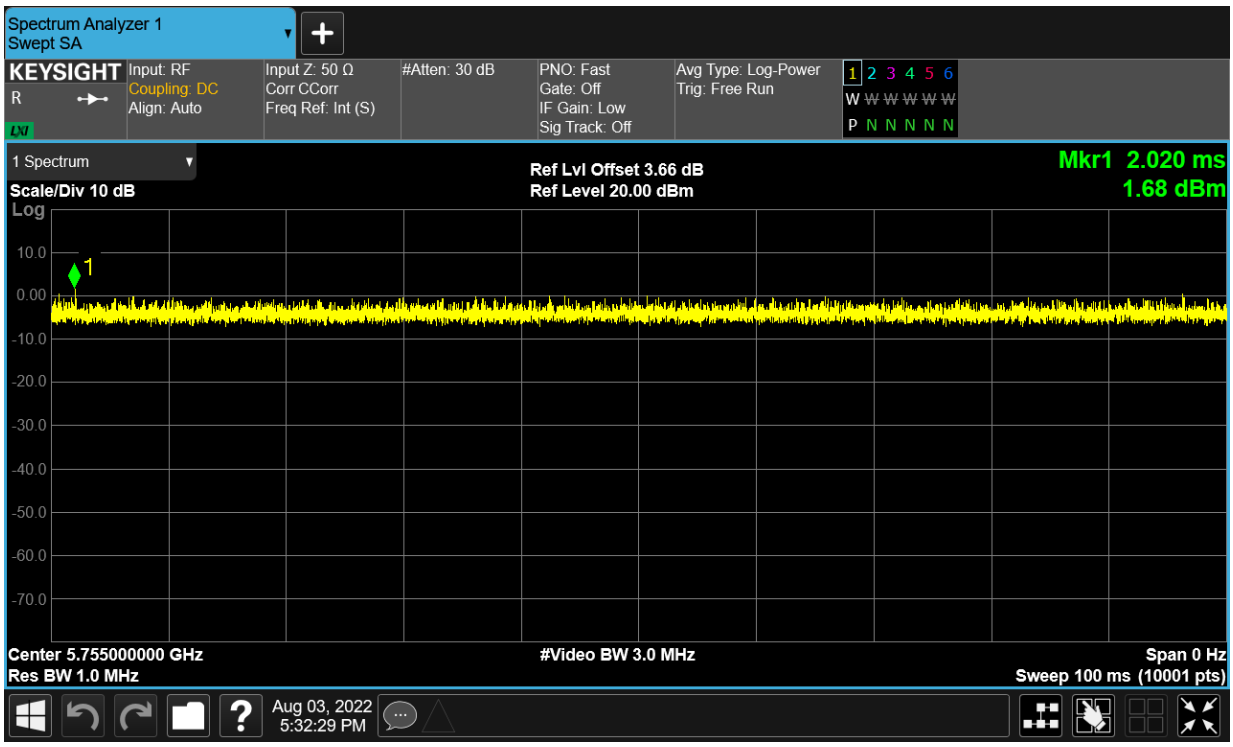
Duty Cycle NVNT n20 5785MHz Sum



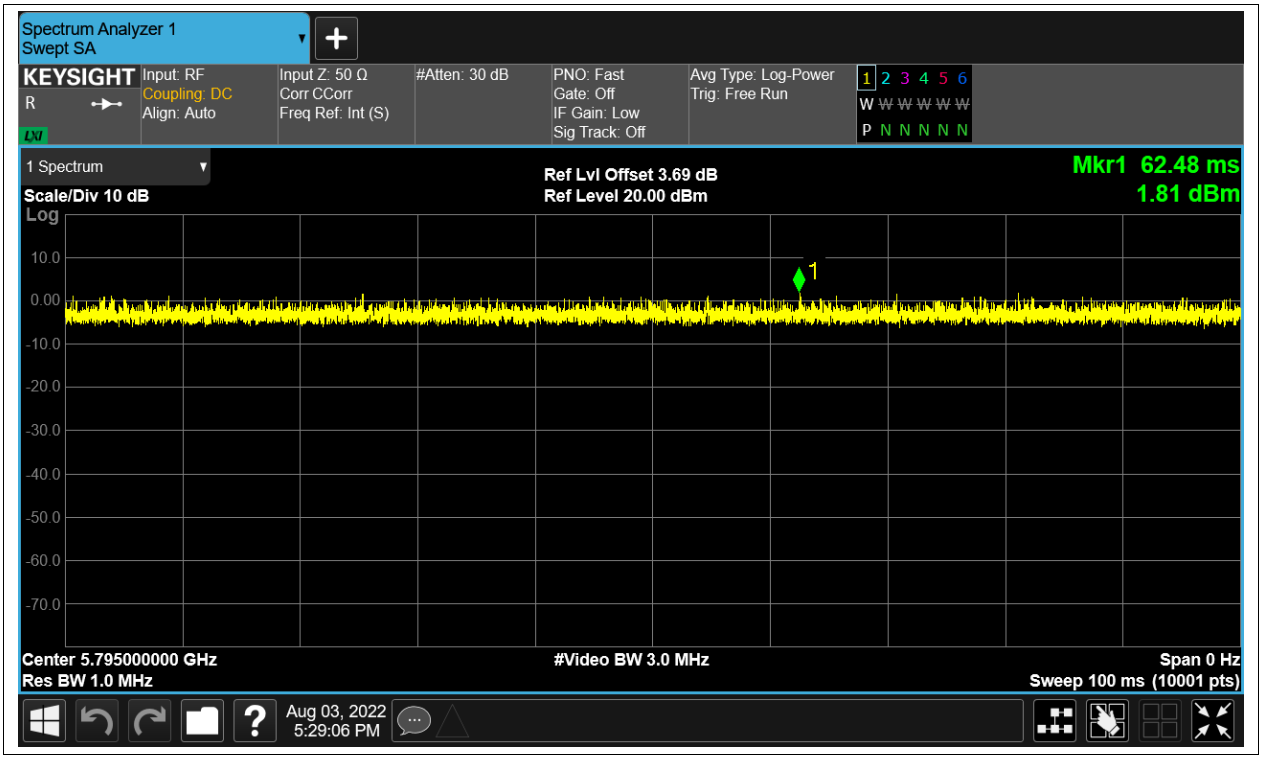
Duty Cycle NVNT n20 5825MHz Sum



Duty Cycle NVNT n40 5755MHz Sum



Duty Cycle NVNT n40 5795MHz Sum


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 3.69 dB
Ref Level 20.00 dBm
Mkr1 62.48 ms
1.81 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 5.795000000 GHz
Res BW 1.0 MHz
#Video BW 3.0 MHz
Span 0 Hz
Sweep 100 ms (10001 pts)
Aug 03, 2022
5:29:06 PM

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	11.04	0	11.04	30	Pass
NVNT	a	5785	Ant1	13.5	0	13.5	30	Pass
NVNT	a	5825	Ant1	13.08	0	13.08	30	Pass
NVNT	a	5745	Ant2	11.21	0	11.21	30	Pass
NVNT	a	5785	Ant2	11.67	0	11.67	30	Pass
NVNT	a	5825	Ant2	12.56	0	12.56	30	Pass
NVNT	ac20	5745	Ant1	7.32	0	7.32	30	Pass
NVNT	ac20	5745	Ant2	8.41	0	8.41	30	Pass
NVNT	ac20	5745	Sum	10.909	0	10.909	30	Pass
NVNT	ac20	5785	Ant1	9.79	0	9.79	30	Pass
NVNT	ac20	5785	Ant2	7.89	0	7.89	30	Pass
NVNT	ac20	5785	Sum	11.953	0	11.953	30	Pass
NVNT	ac20	5825	Ant1	10.24	0	10.24	30	Pass
NVNT	ac20	5825	Ant2	9.68	0	9.68	30	Pass
NVNT	ac20	5825	Sum	12.979	0	12.979	30	Pass
NVNT	ac40	5755	Ant1	8.07	0	8.07	30	Pass
NVNT	ac40	5755	Ant2	8.69	0	8.69	30	Pass
NVNT	ac40	5755	Sum	11.401	0	11.401	30	Pass
NVNT	ac40	5795	Ant1	9.86	0	9.86	30	Pass
NVNT	ac40	5795	Ant2	8.15	0	8.15	30	Pass
NVNT	ac40	5795	Sum	12.099	0	12.099	30	Pass
NVNT	ac80	5775	Ant1	8.79	0	8.79	30	Pass
NVNT	ac80	5775	Ant2	8.25	0	8.25	30	Pass
NVNT	ac80	5775	Sum	11.539	0	11.539	30	Pass
NVNT	ax20	5745	Ant1	6.22	0	6.22	30	Pass
NVNT	ax20	5745	Ant2	7.07	0	7.07	30	Pass
NVNT	ax20	5745	Sum	9.676	0	9.676	30	Pass
NVNT	ax20	5785	Ant1	7.17	0	7.17	30	Pass
NVNT	ax20	5785	Ant2	5.18	0	5.18	30	Pass
NVNT	ax20	5785	Sum	9.298	0	9.298	30	Pass
NVNT	ax20	5825	Ant1	6.62	0	6.62	30	Pass
NVNT	ax20	5825	Ant2	6.2	0	6.2	30	Pass
NVNT	ax20	5825	Sum	9.425	0	9.425	30	Pass
NVNT	ax40	5755	Ant1	7.33	0	7.33	30	Pass
NVNT	ax40	5755	Ant2	7.91	0	7.91	30	Pass
NVNT	ax40	5755	Sum	10.64	0	10.64	30	Pass
NVNT	ax40	5795	Ant1	9.15	0	9.15	30	Pass
NVNT	ax40	5795	Ant2	7.55	0	7.55	30	Pass
NVNT	ax40	5795	Sum	11.434	0	11.434	30	Pass
NVNT	ax80	5775	Ant1	8.25	0	8.25	30	Pass

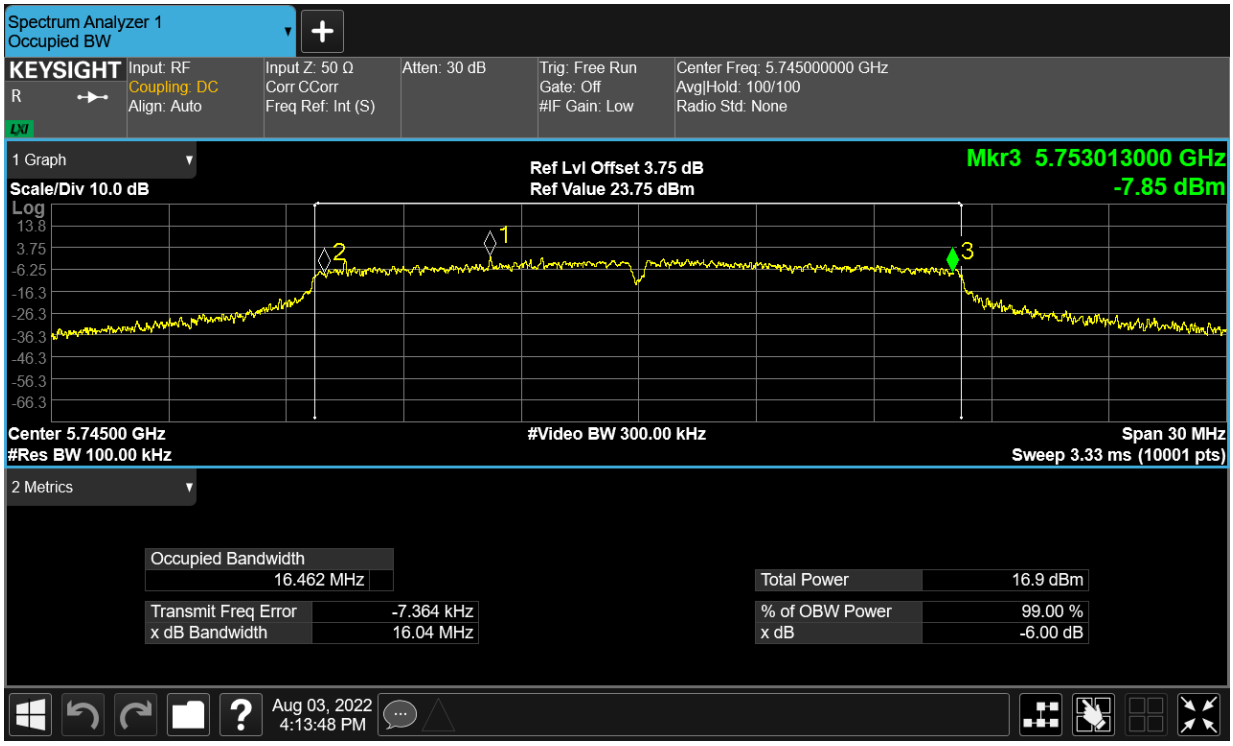
NVNT	ax80	5775	Ant2	7.62	0	7.62	30	Pass
NVNT	ax80	5775	Sum	10.957	0	10.957	30	Pass
NVNT	n20	5745	Ant1	8.2	0	8.2	39	Pass
NVNT	n20	5745	Ant2	9.28	0	9.28	39	Pass
NVNT	n20	5745	Sum	11.784	0	11.784	39	Pass
NVNT	n20	5785	Ant1	10.71	0	10.71	30	Pass
NVNT	n20	5785	Ant2	8.91	0	8.91	30	Pass
NVNT	n20	5785	Sum	12.913	0	12.913	30	Pass
NVNT	n20	5825	Ant1	11.3	0	11.3	30	Pass
NVNT	n20	5825	Ant2	10.66	0	10.66	30	Pass
NVNT	n20	5825	Sum	14.002	0	14.002	30	Pass
NVNT	n40	5755	Ant1	8.05	0	8.05	30	Pass
NVNT	n40	5755	Ant2	8.82	0	8.82	30	Pass
NVNT	n40	5755	Sum	11.462	0	11.462	30	Pass
NVNT	n40	5795	Ant1	9.78	0	9.78	30	Pass
NVNT	n40	5795	Ant2	8.2	0	8.2	30	Pass
NVNT	n40	5795	Sum	12.072	0	12.072	30	Pass

-6dB Bandwidth

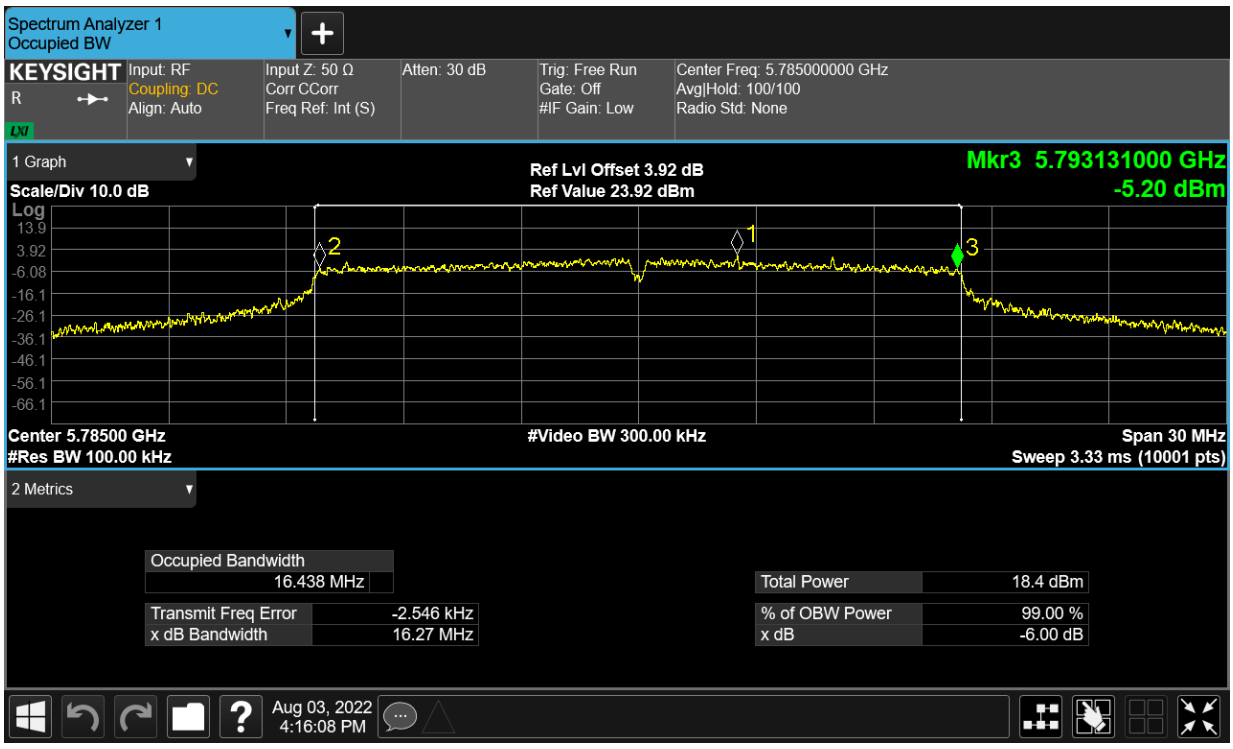
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	a	5745	Ant1	16.041	0.5	Pass
NVNT	a	5785	Ant1	16.267	0.5	Pass
NVNT	a	5825	Ant1	15.03	0.5	Pass
NVNT	a	5745	Ant2	13.158	0.5	Pass
NVNT	a	5785	Ant2	15.058	0.5	Pass
NVNT	a	5825	Ant2	15.088	0.5	Pass
NVNT	ac20	5745	Ant1	15.082	0.5	Pass
NVNT	ac20	5745	Ant2	12.547	0.5	Pass
NVNT	ac20	5785	Ant1	16.919	0.5	Pass
NVNT	ac20	5785	Ant2	16.515	0.5	Pass
NVNT	ac20	5825	Ant1	14.205	0.5	Pass
NVNT	ac20	5825	Ant2	14.402	0.5	Pass
NVNT	ac40	5755	Ant1	33.783	0.5	Pass
NVNT	ac40	5755	Ant2	33.784	0.5	Pass
NVNT	ac40	5795	Ant1	33.797	0.5	Pass
NVNT	ac40	5795	Ant2	34.965	0.5	Pass
NVNT	ac80	5775	Ant1	73.224	0.5	Pass
NVNT	ac80	5775	Ant2	76.28	0.5	Pass
NVNT	ax20	5745	Ant1	17.274	0.5	Pass
NVNT	ax20	5745	Ant2	18.511	0.5	Pass
NVNT	ax20	5785	Ant1	18.398	0.5	Pass
NVNT	ax20	5785	Ant2	18.761	0.5	Pass
NVNT	ax20	5825	Ant1	16.496	0.5	Pass
NVNT	ax20	5825	Ant2	13.812	0.5	Pass
NVNT	ax40	5755	Ant1	34.315	0.5	Pass
NVNT	ax40	5755	Ant2	32.578	0.5	Pass
NVNT	ax40	5795	Ant1	37.072	0.5	Pass
NVNT	ax40	5795	Ant2	35.088	0.5	Pass
NVNT	ax80	5775	Ant1	77.561	0.5	Pass
NVNT	ax80	5775	Ant2	76.406	0.5	Pass
NVNT	n20	5745	Ant1	15.029	0.5	Pass
NVNT	n20	5745	Ant2	15.645	0.5	Pass
NVNT	n20	5785	Ant1	12.594	0.5	Pass
NVNT	n20	5785	Ant2	15.638	0.5	Pass
NVNT	n20	5825	Ant1	16.884	0.5	Pass
NVNT	n20	5825	Ant2	17.545	0.5	Pass
NVNT	n40	5755	Ant1	32.567	0.5	Pass
NVNT	n40	5755	Ant2	33.837	0.5	Pass
NVNT	n40	5795	Ant1	33.845	0.5	Pass
NVNT	n40	5795	Ant2	32.599	0.5	Pass

Test Graphs

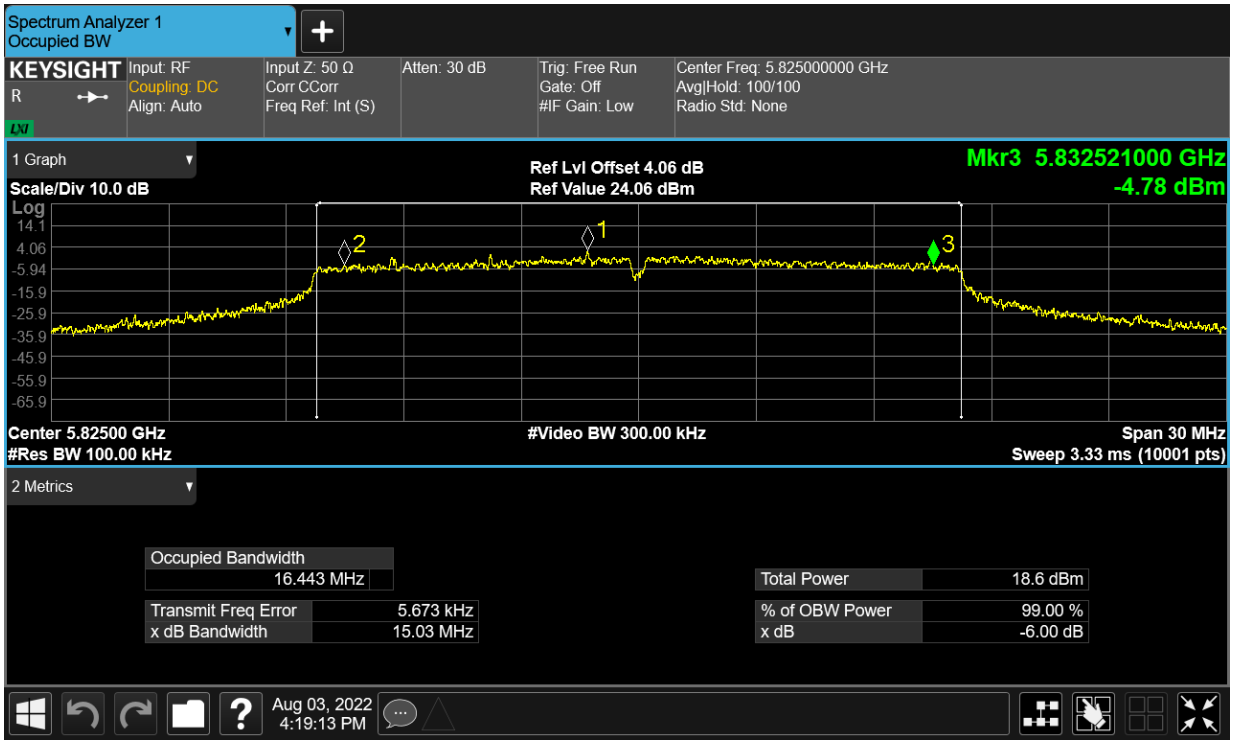
-6dB Bandwidth NVHT a 5745MHz Ant1



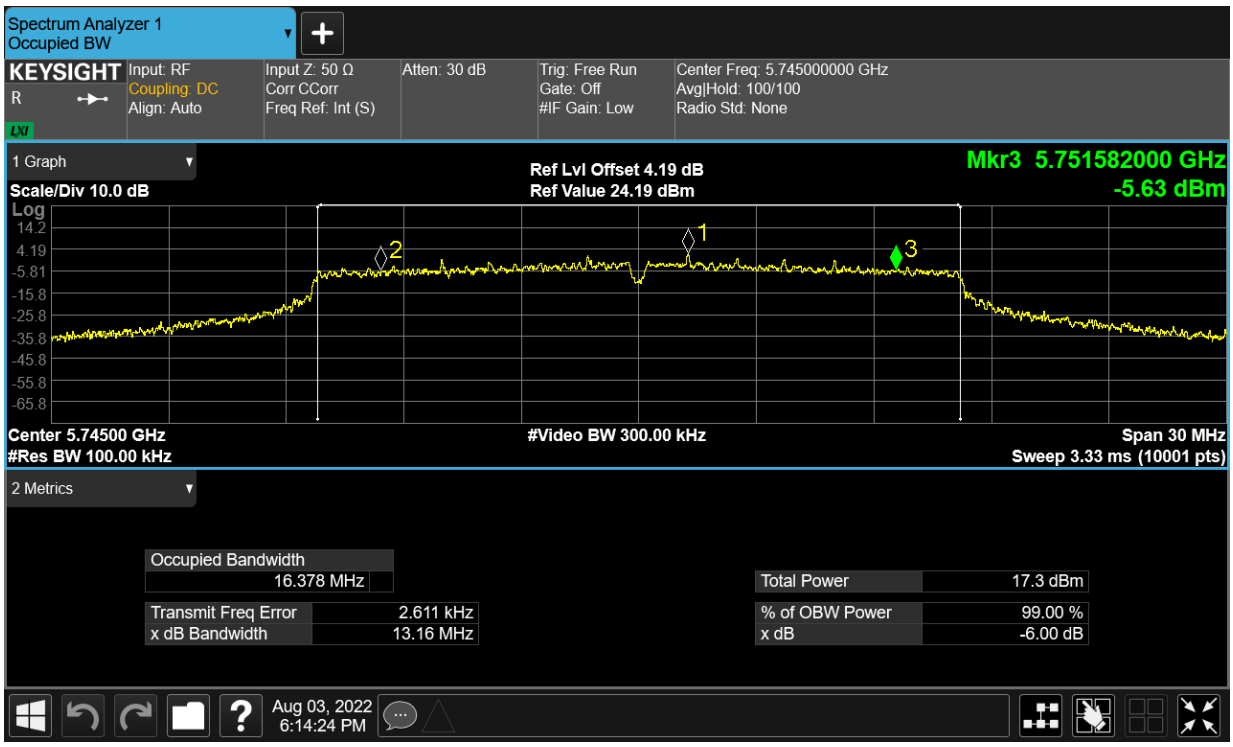
-6dB Bandwidth NVNT a 5785MHz Ant1



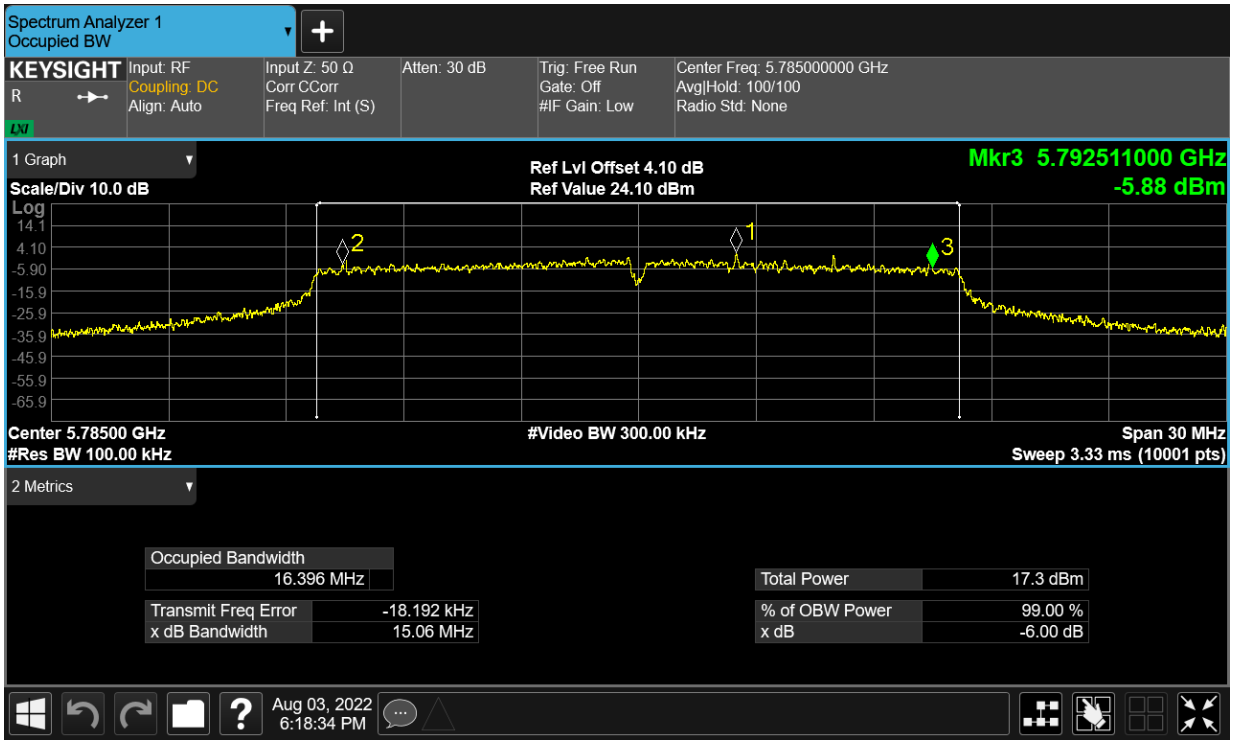
-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT a 5745MHz Ant2



-6dB Bandwidth NVNT a 5785MHz Ant2



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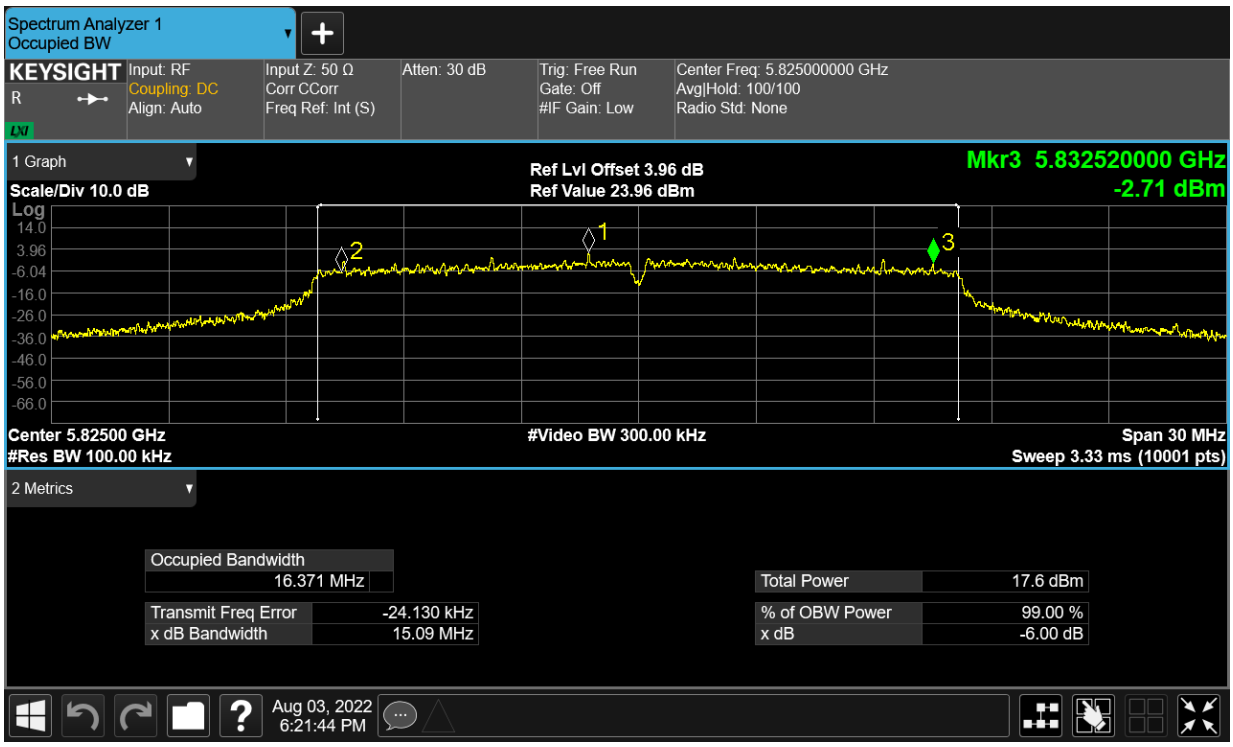
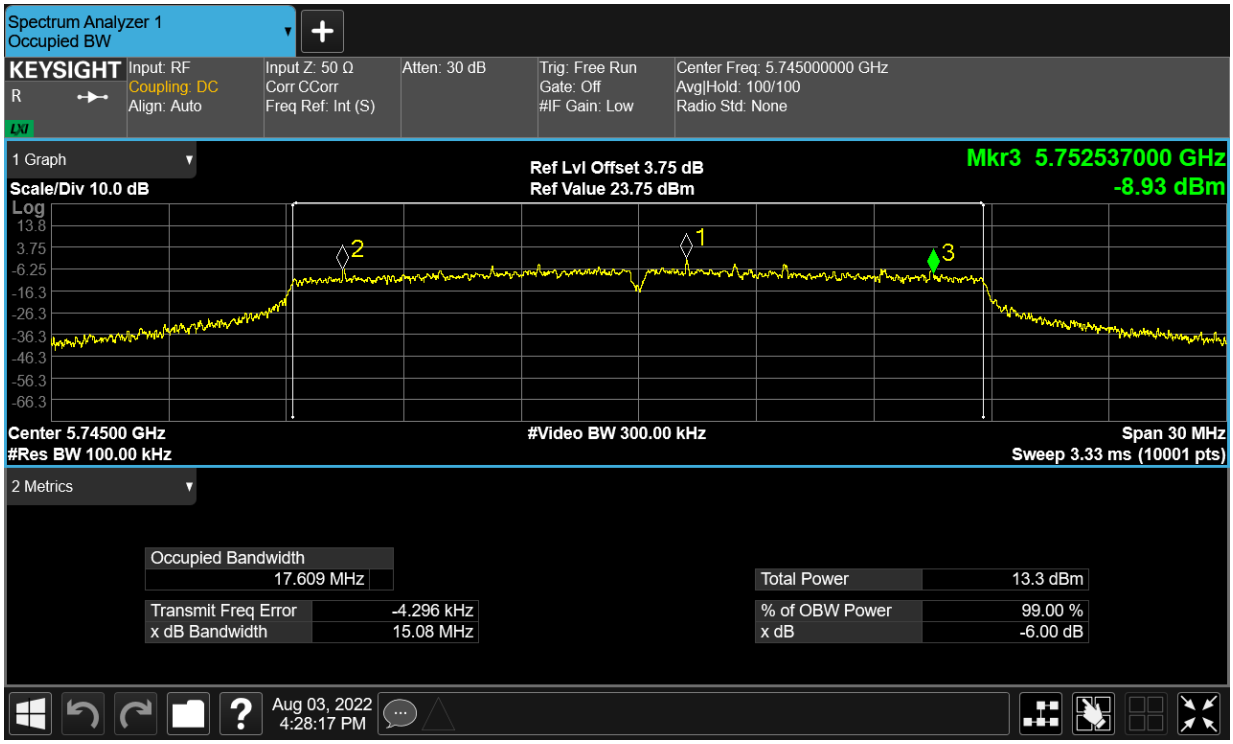
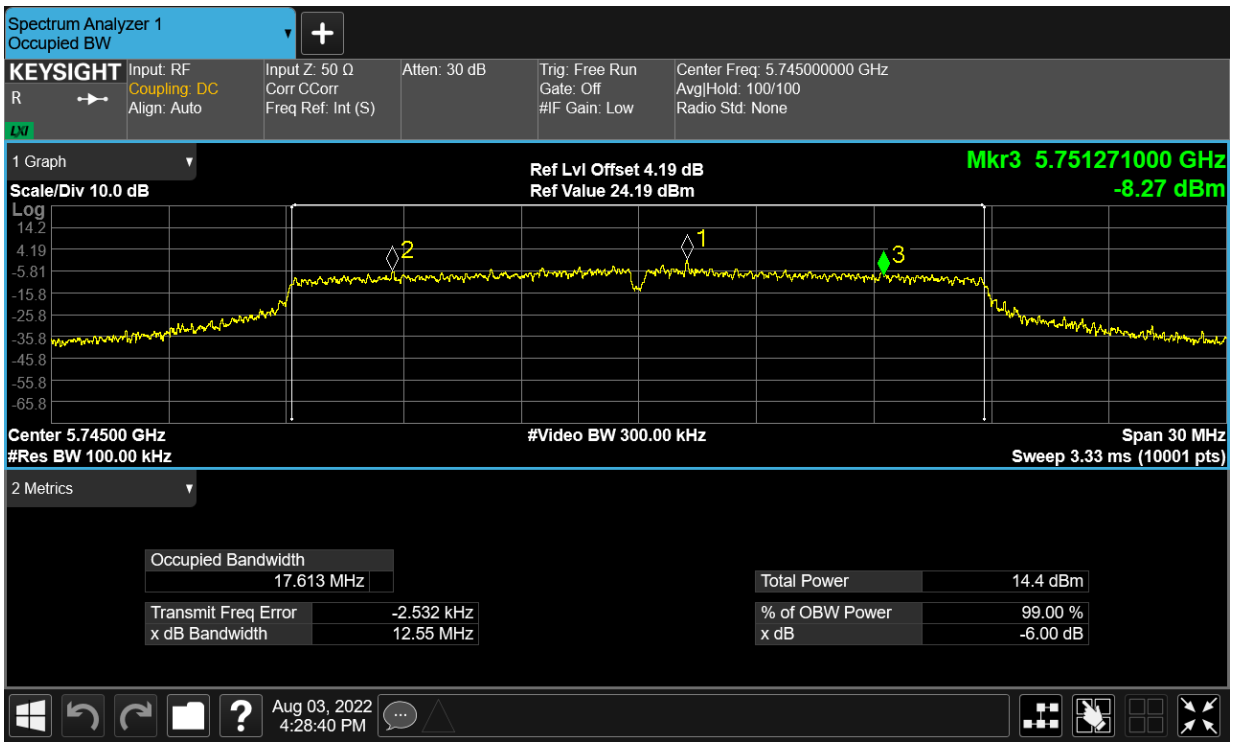


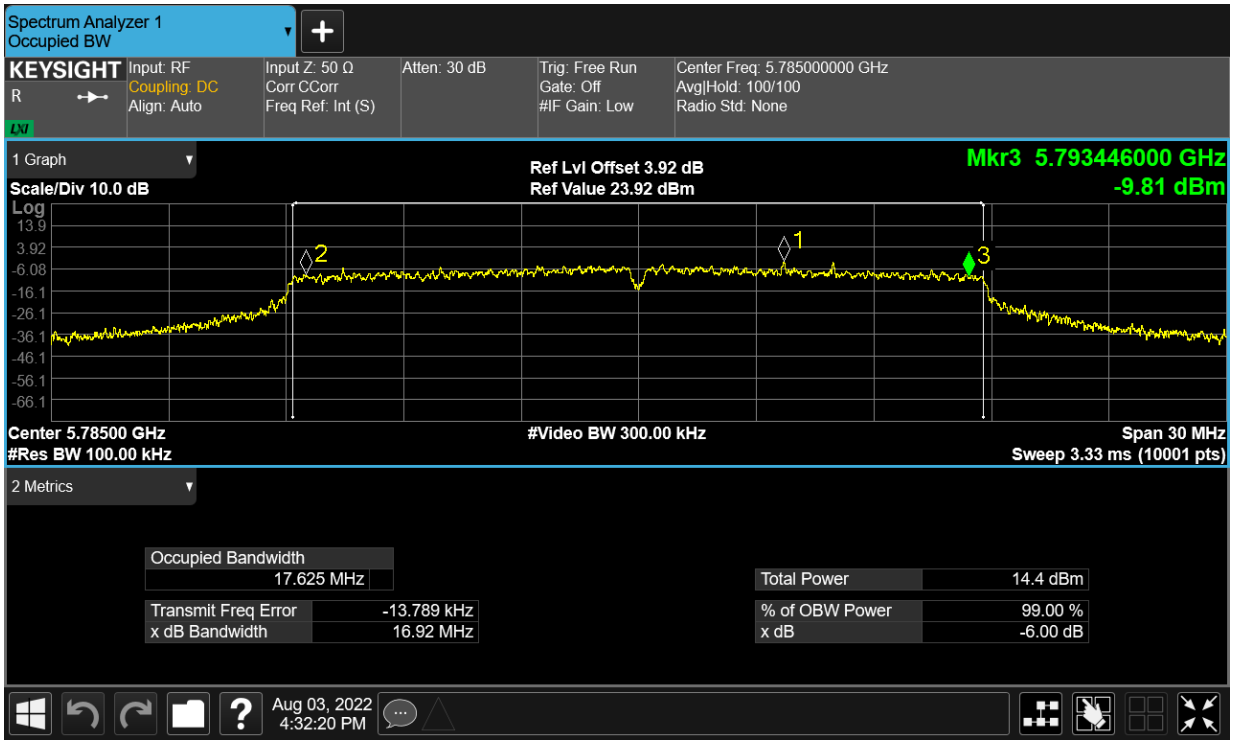
-6dB Bandwidth NVNT ac20 5745MHz Ant1



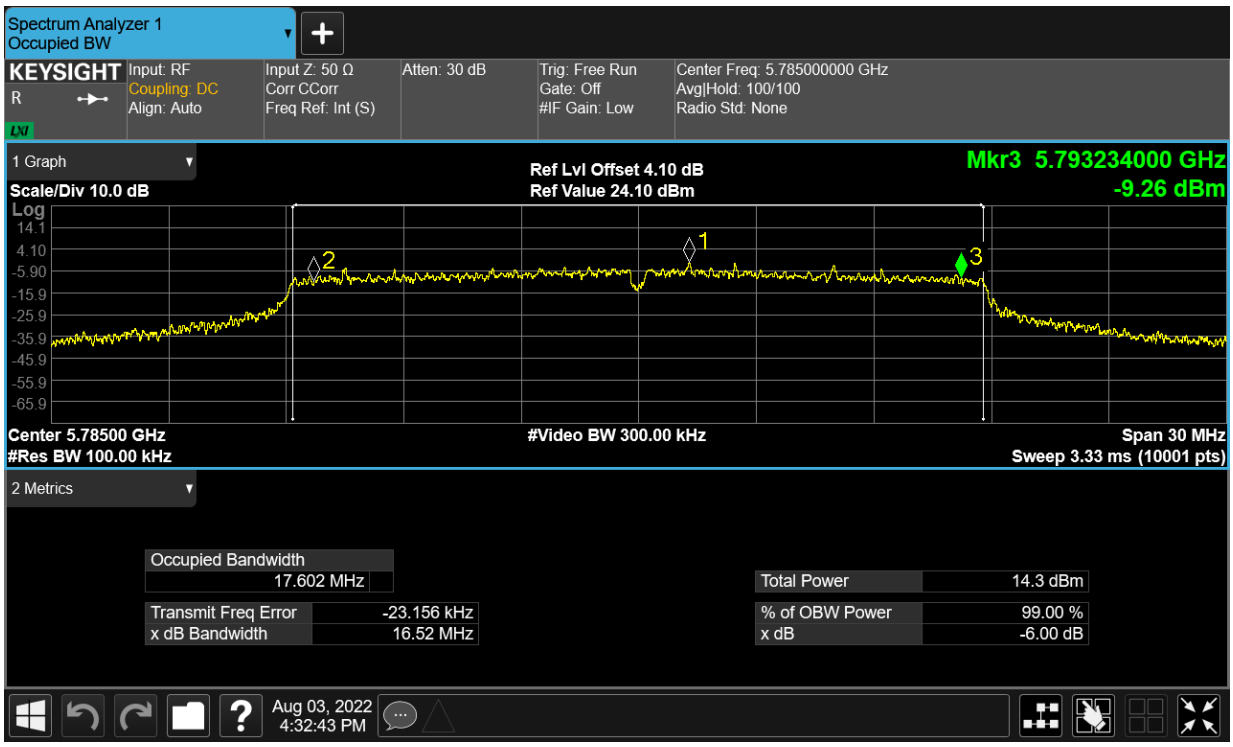
-6dB Bandwidth NVNT ac20 5745MHz Ant2



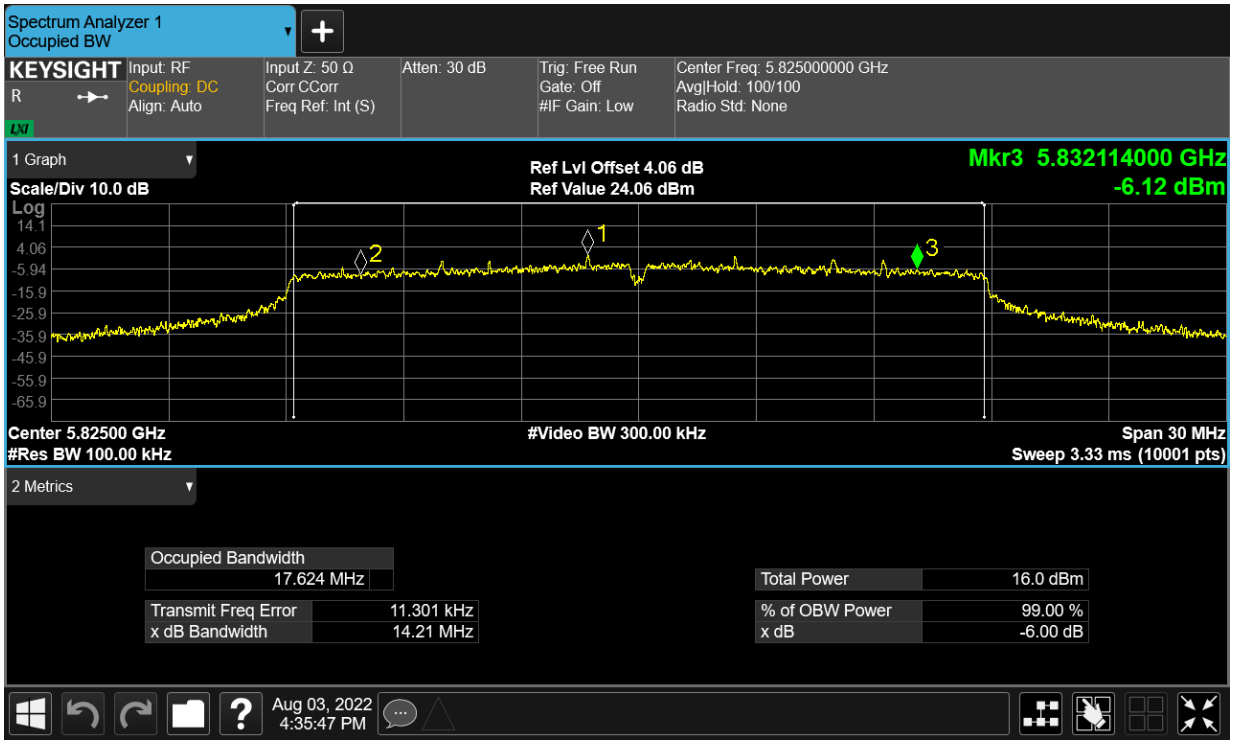
-6dB Bandwidth NVNT ac20 5785MHz Ant1



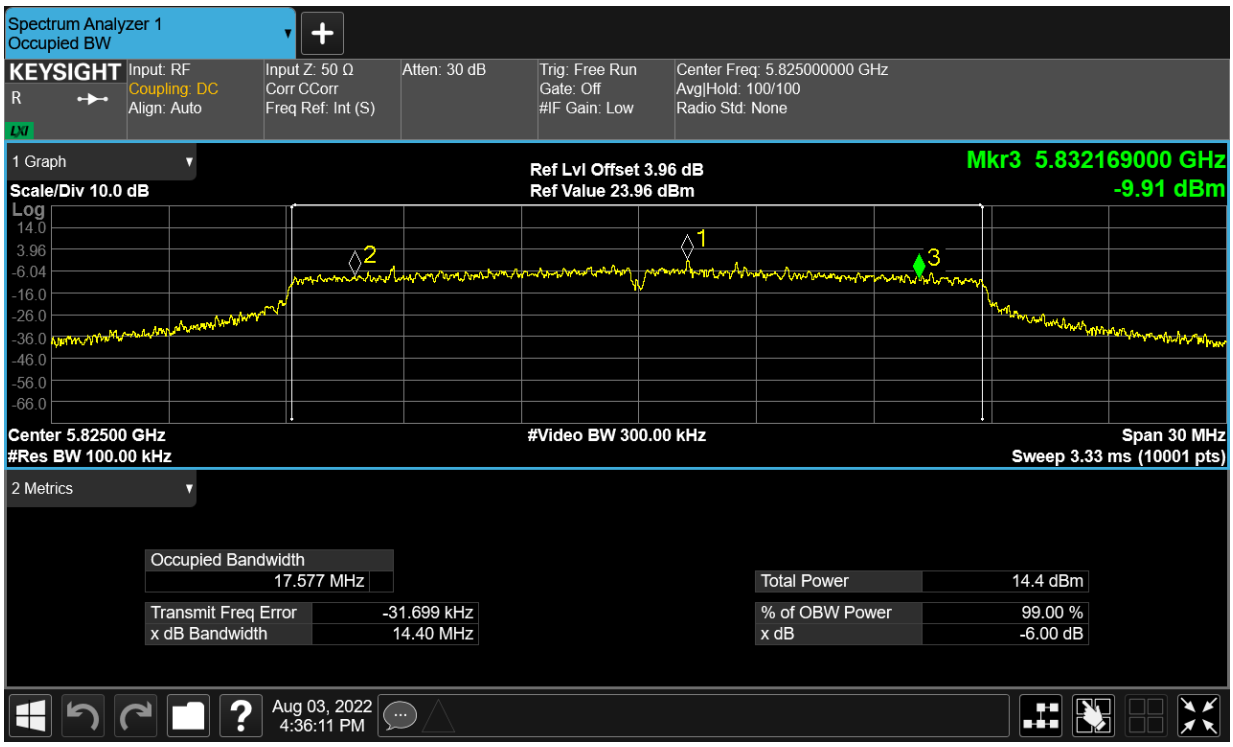
-6dB Bandwidth NVNT ac20 5785MHz Ant2



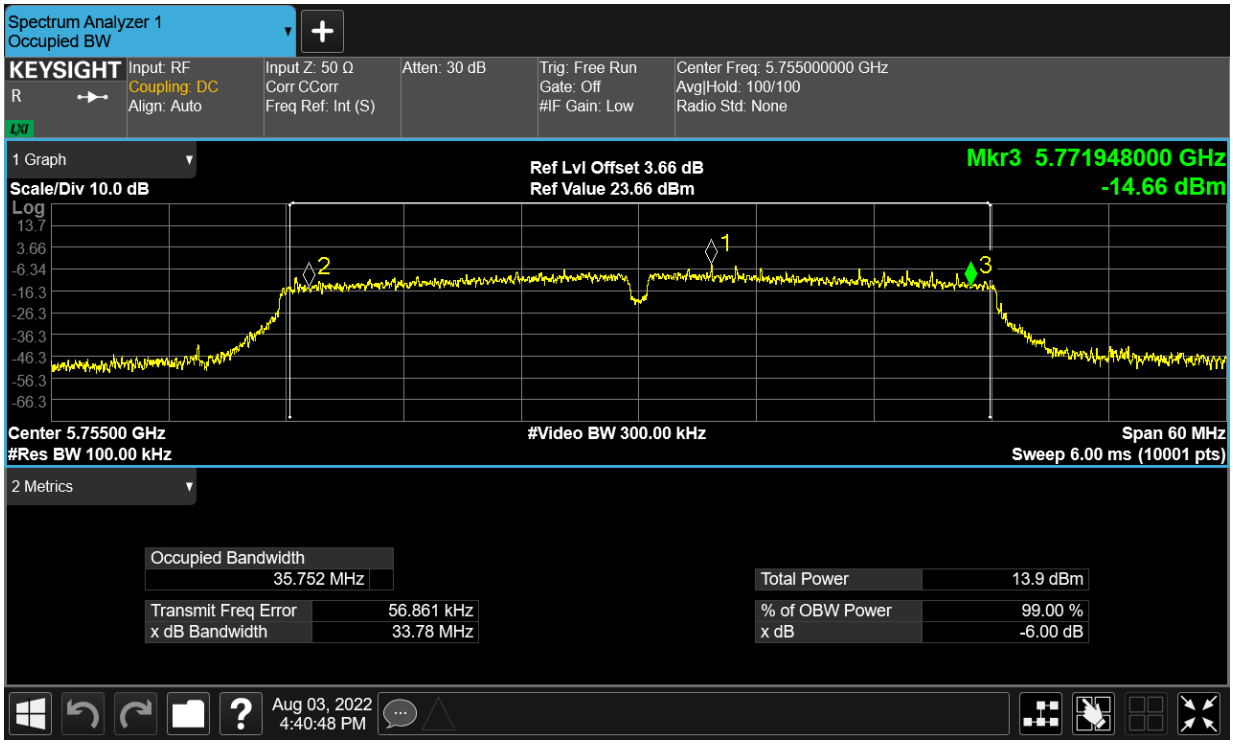
-6dB Bandwidth NVNT ac20 5825MHz Ant1



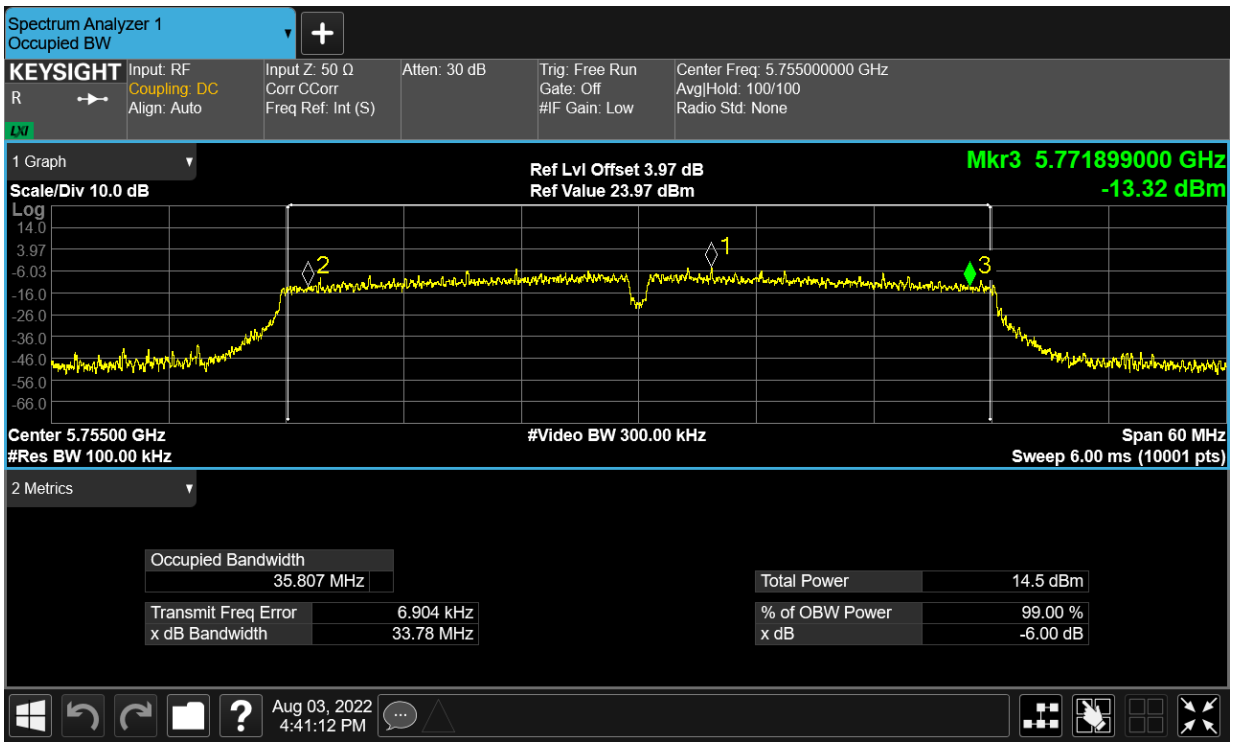
-6dB Bandwidth NVNT ac20 5825MHz Ant2



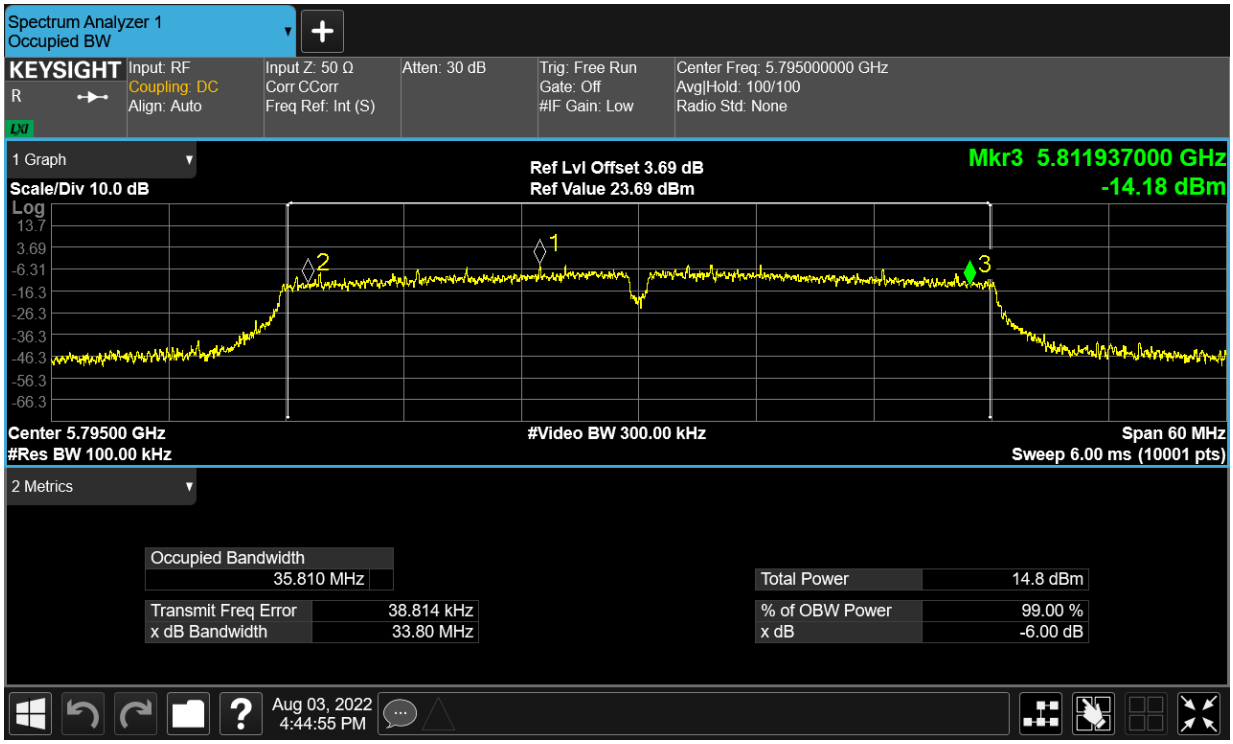
-6dB Bandwidth NVNT ac40 5755MHz Ant1



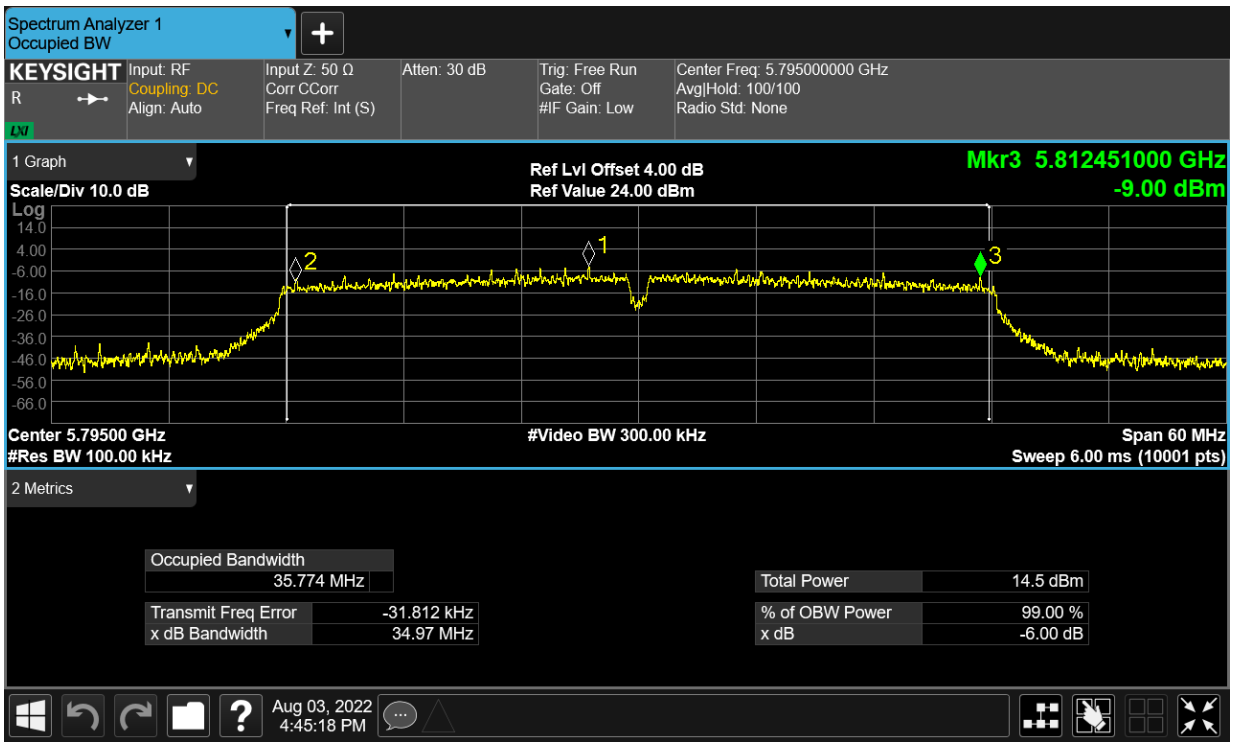
-6dB Bandwidth NVNT ac40 5755MHz Ant2



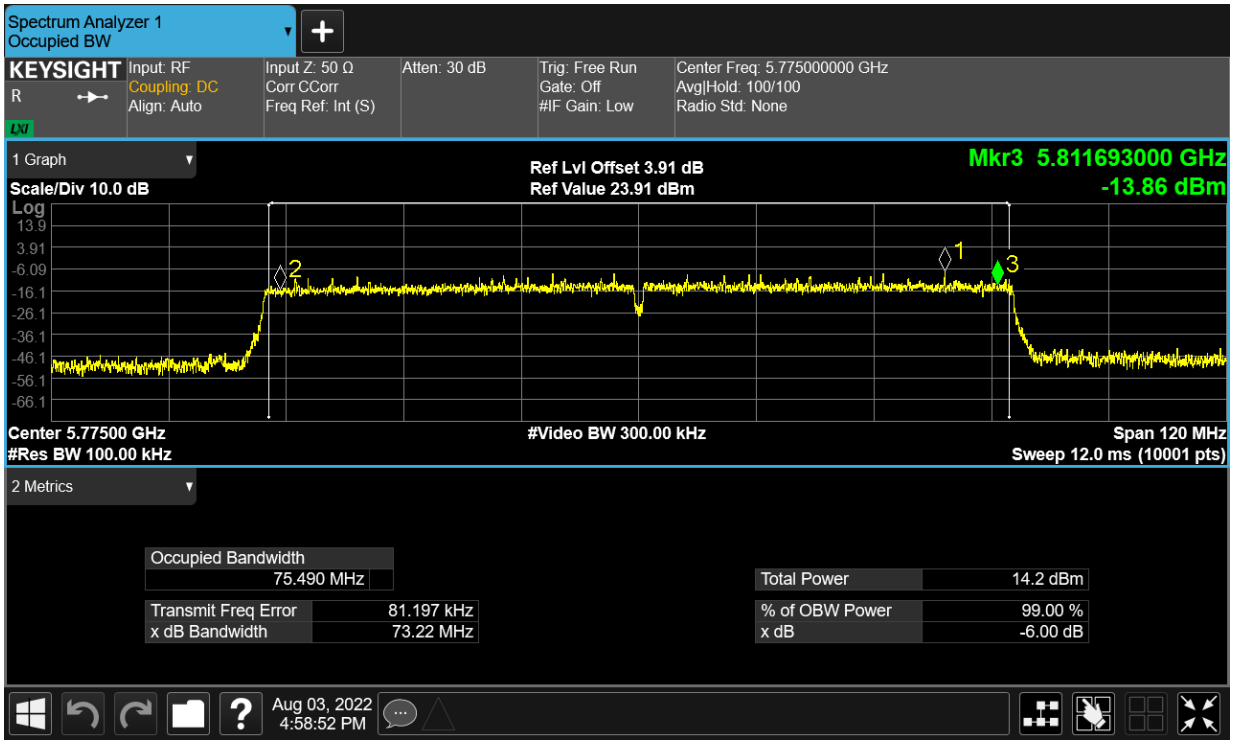
-6dB Bandwidth NVNT ac40 5795MHz Ant1



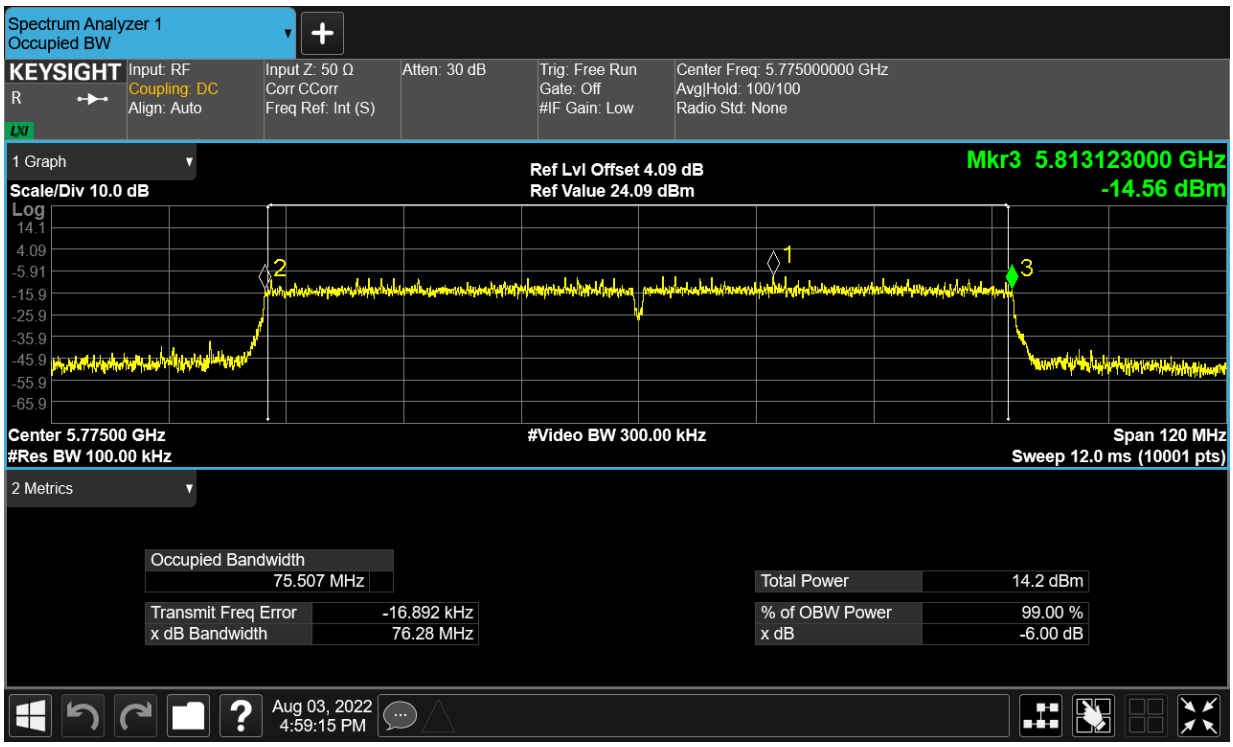
-6dB Bandwidth NVNT ac40 5795MHz Ant2



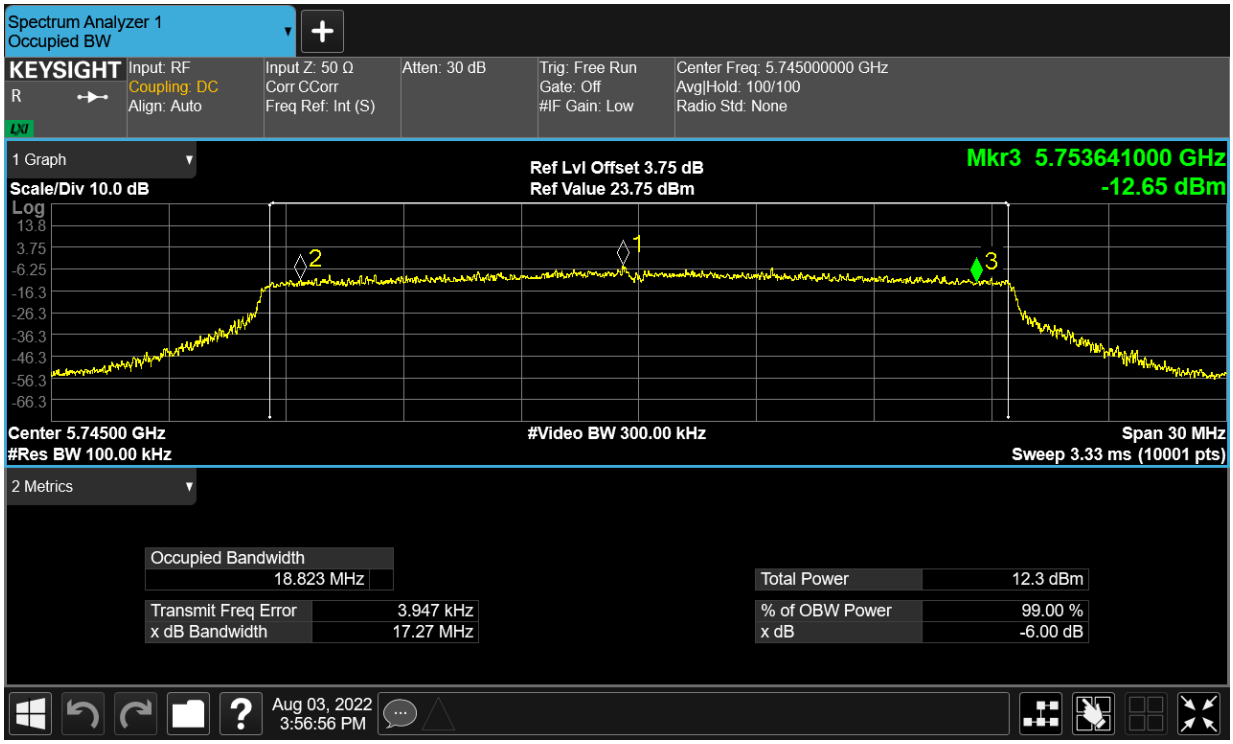
-6dB Bandwidth NVNT ac80 5775MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant2



-6dB Bandwidth NVNT ax20 5745MHz Ant1



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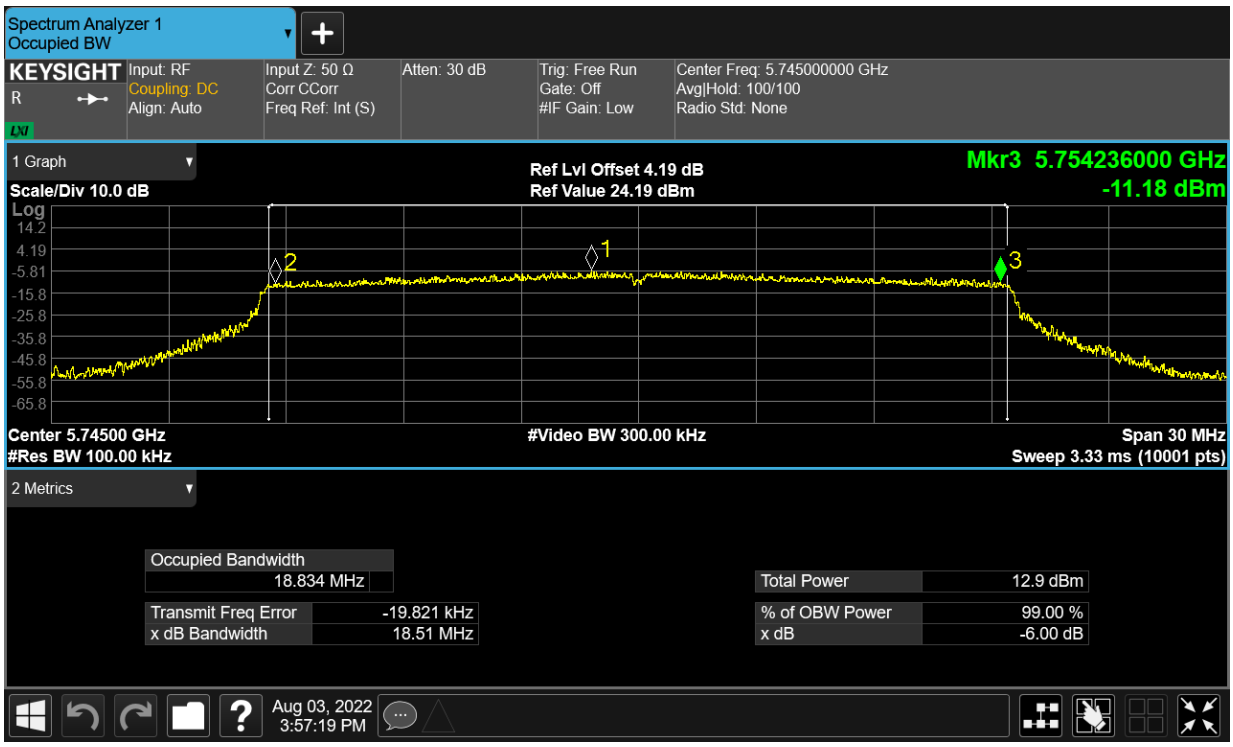
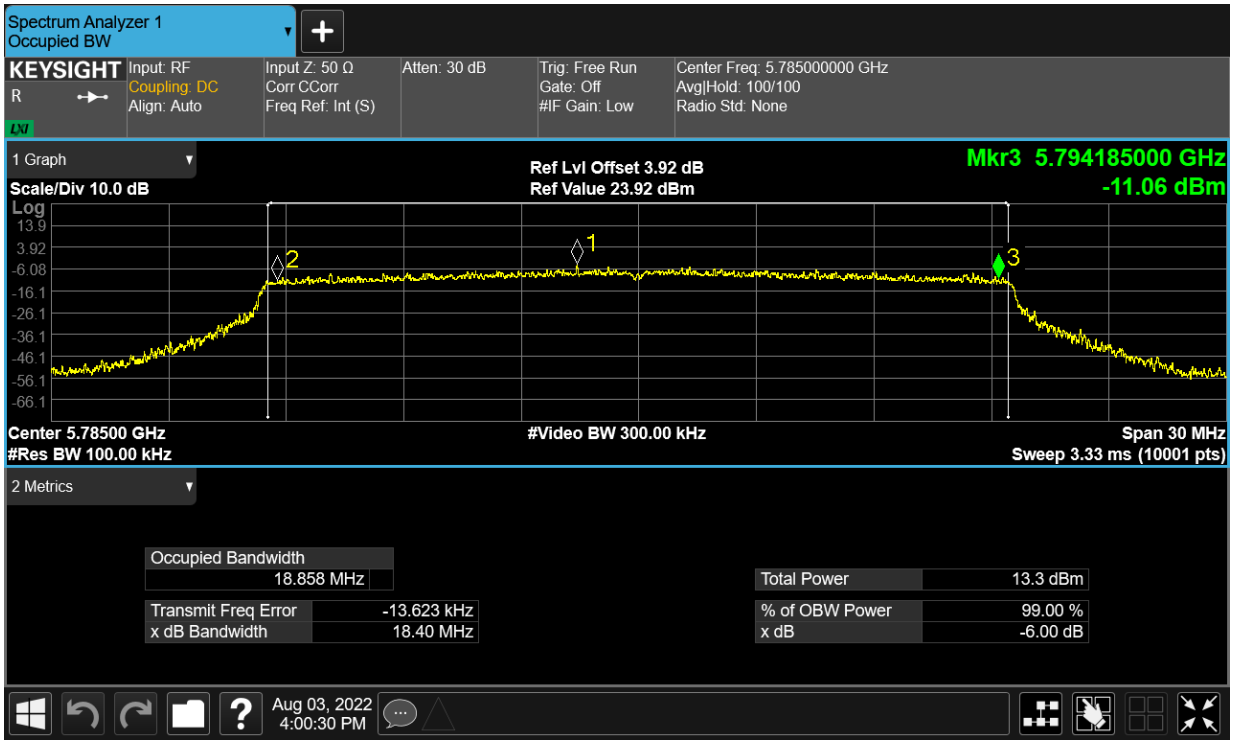
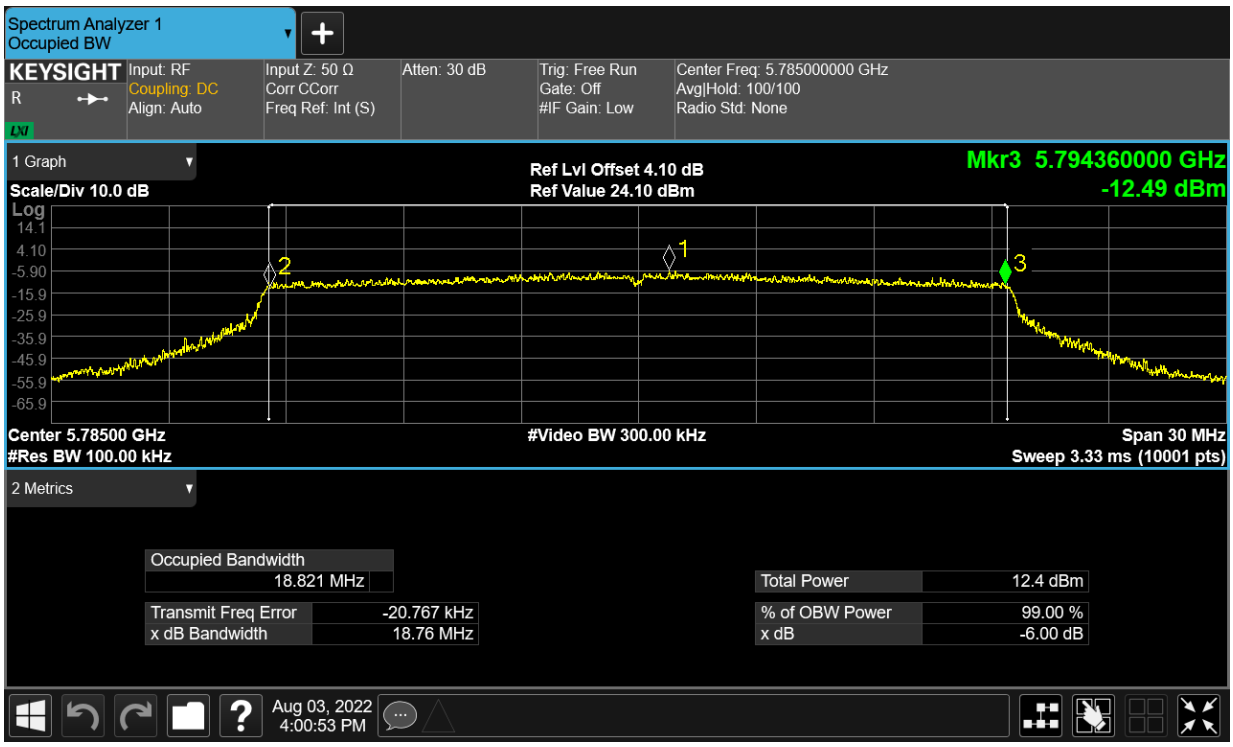


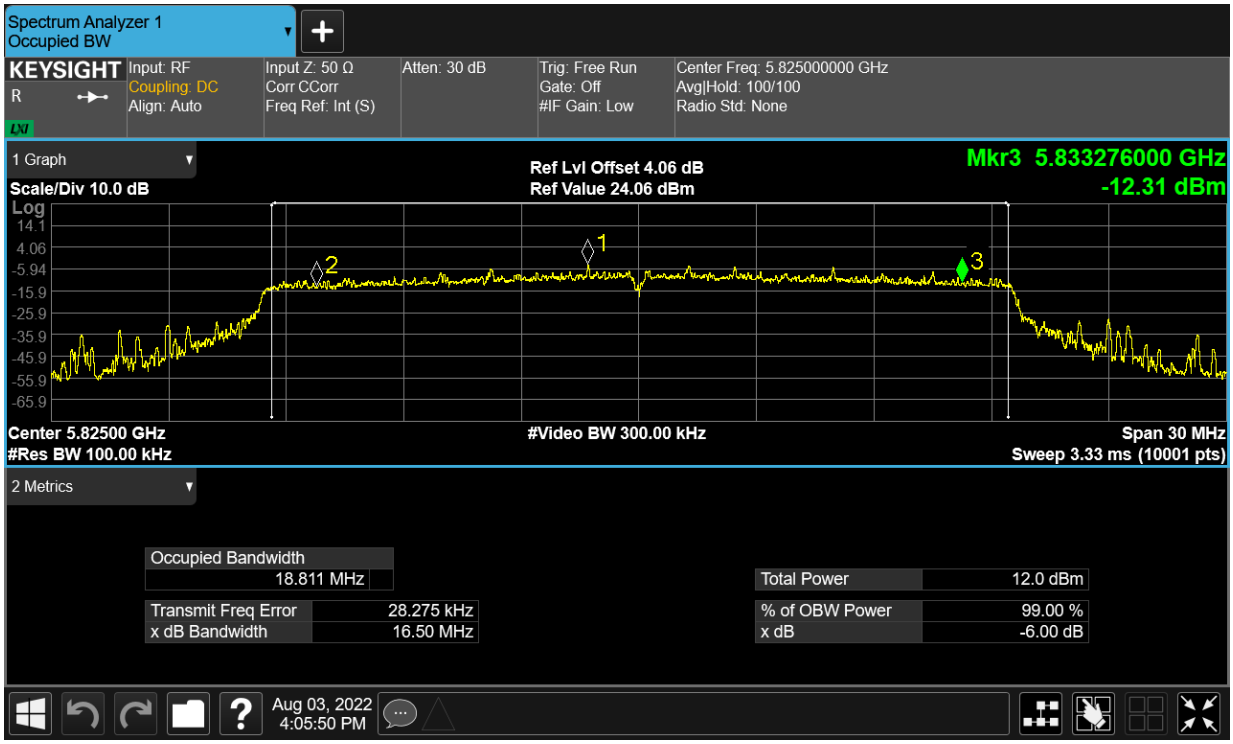
-6dB Bandwidth NVNT ax20 5785MHz Ant1



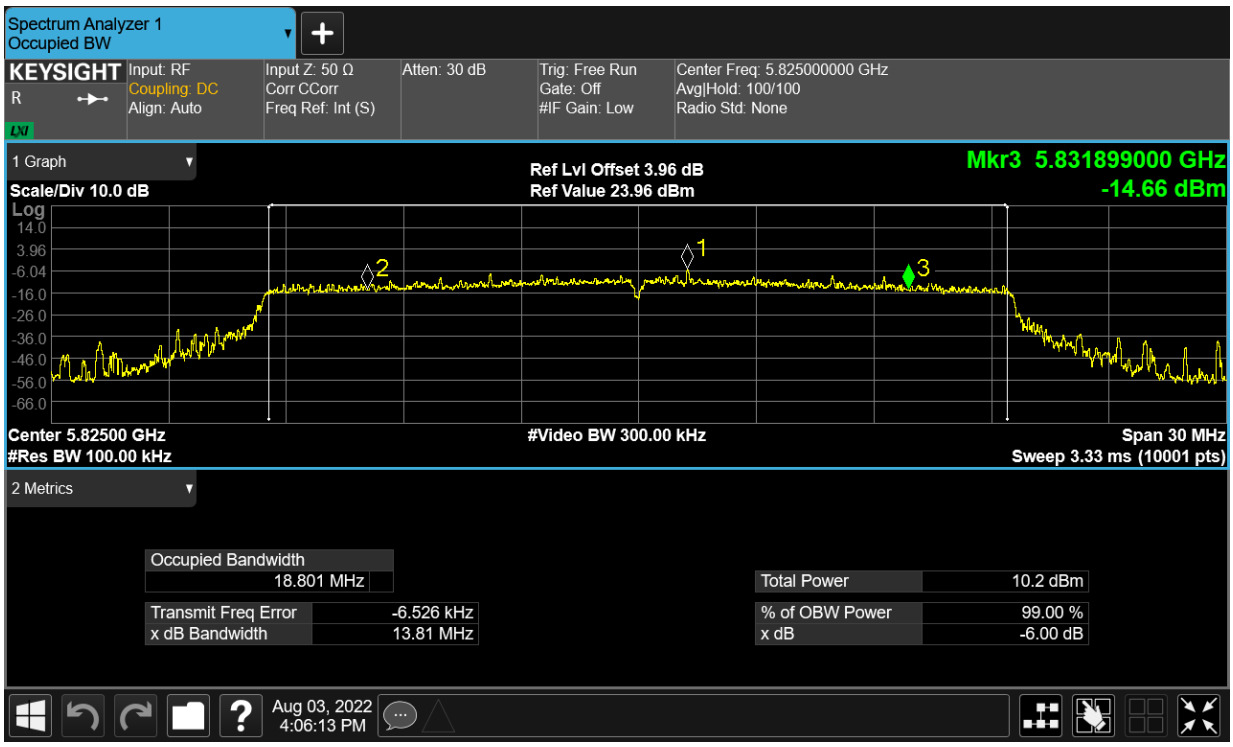
-6dB Bandwidth NVNT ax20 5785MHz Ant2



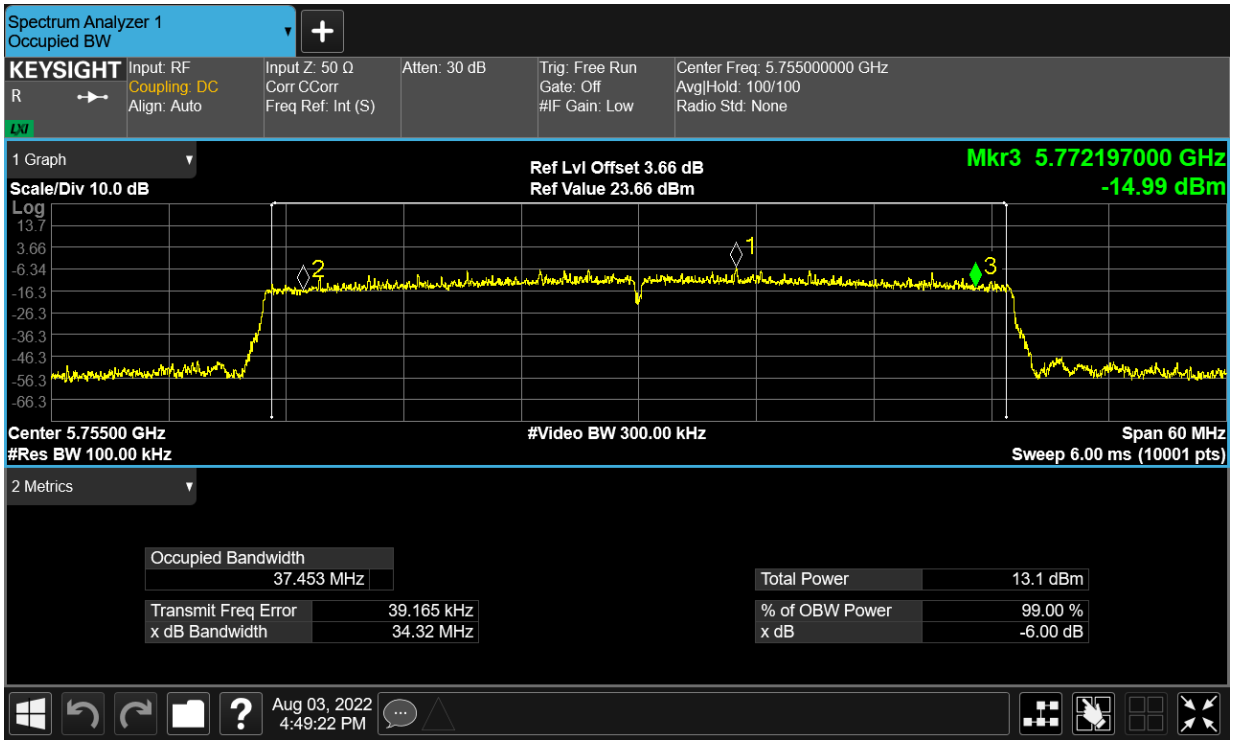
-6dB Bandwidth NVNT ax20 5825MHz Ant1



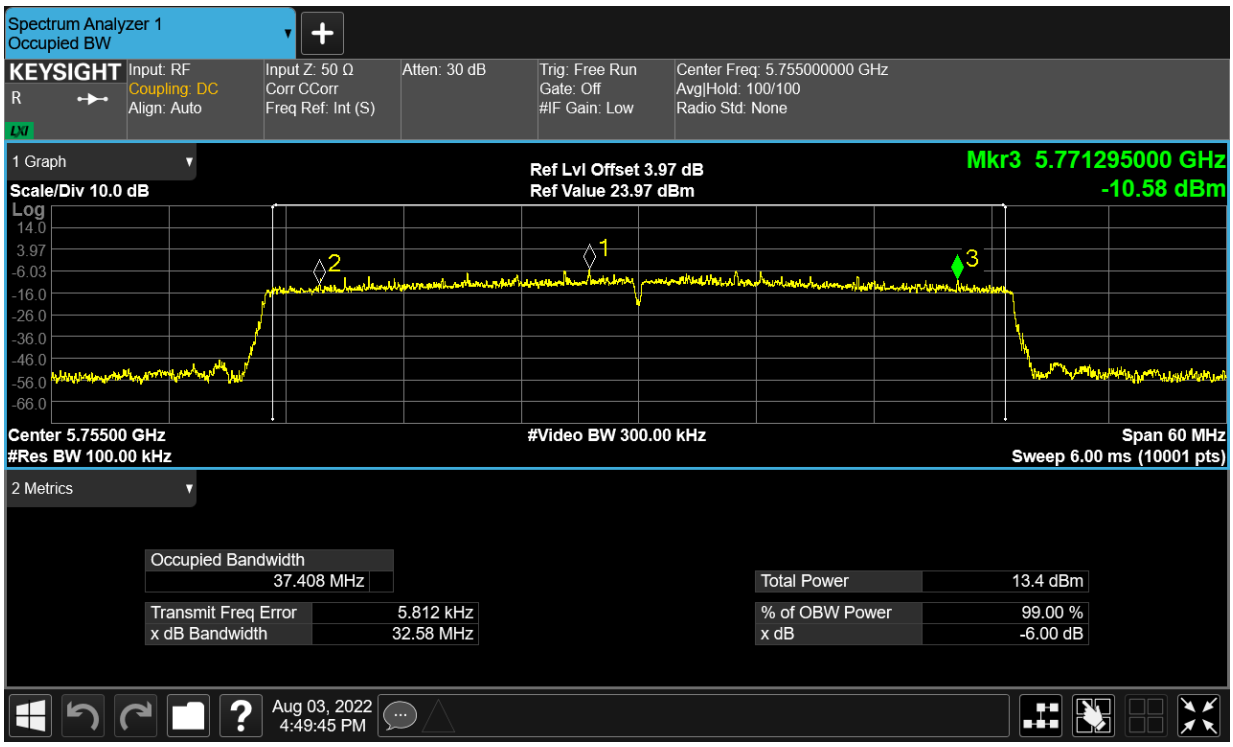
-6dB Bandwidth NVNT ax20 5825MHz Ant2



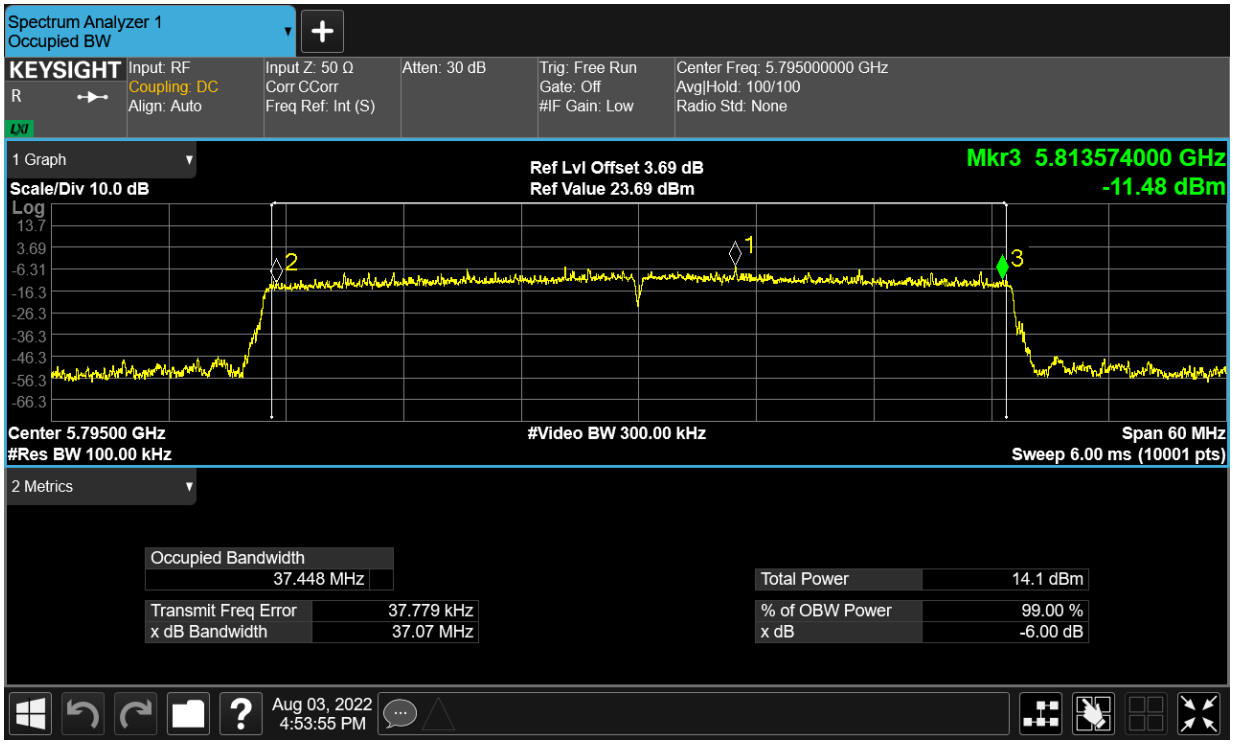
-6dB Bandwidth NVNT ax40 5755MHz Ant1



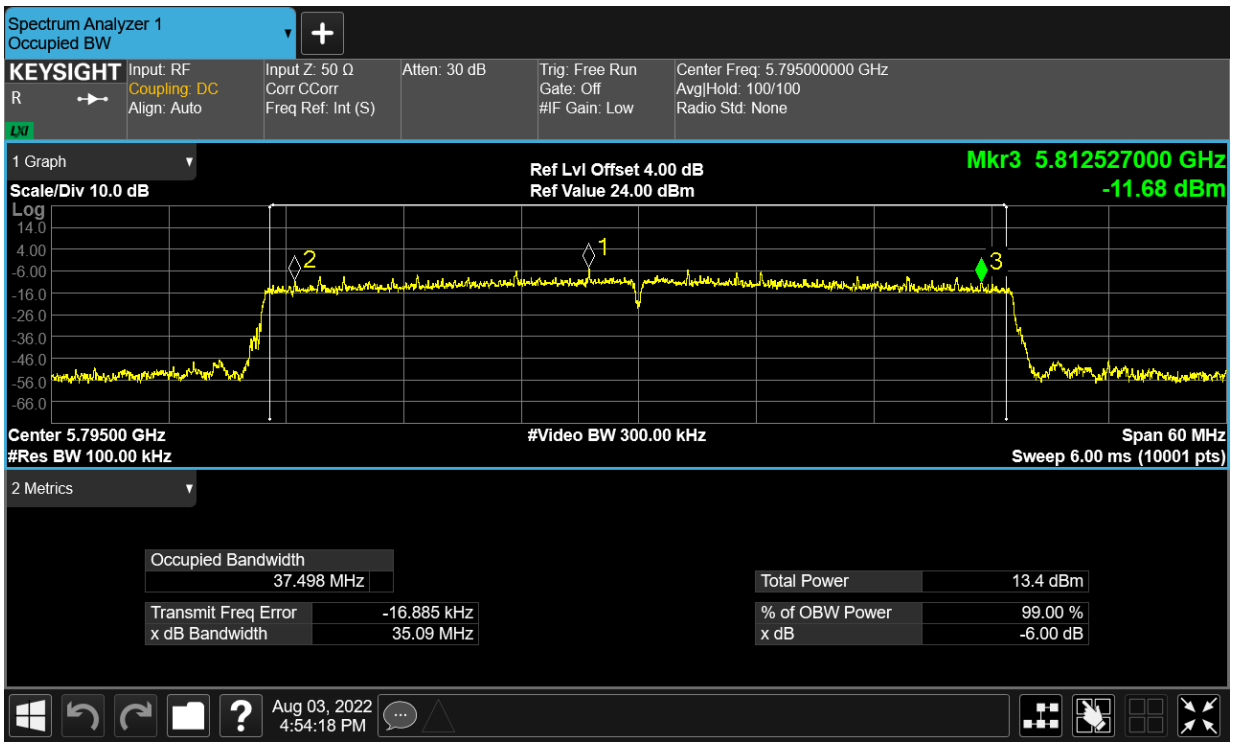
-6dB Bandwidth NVNT ax40 5755MHz Ant2



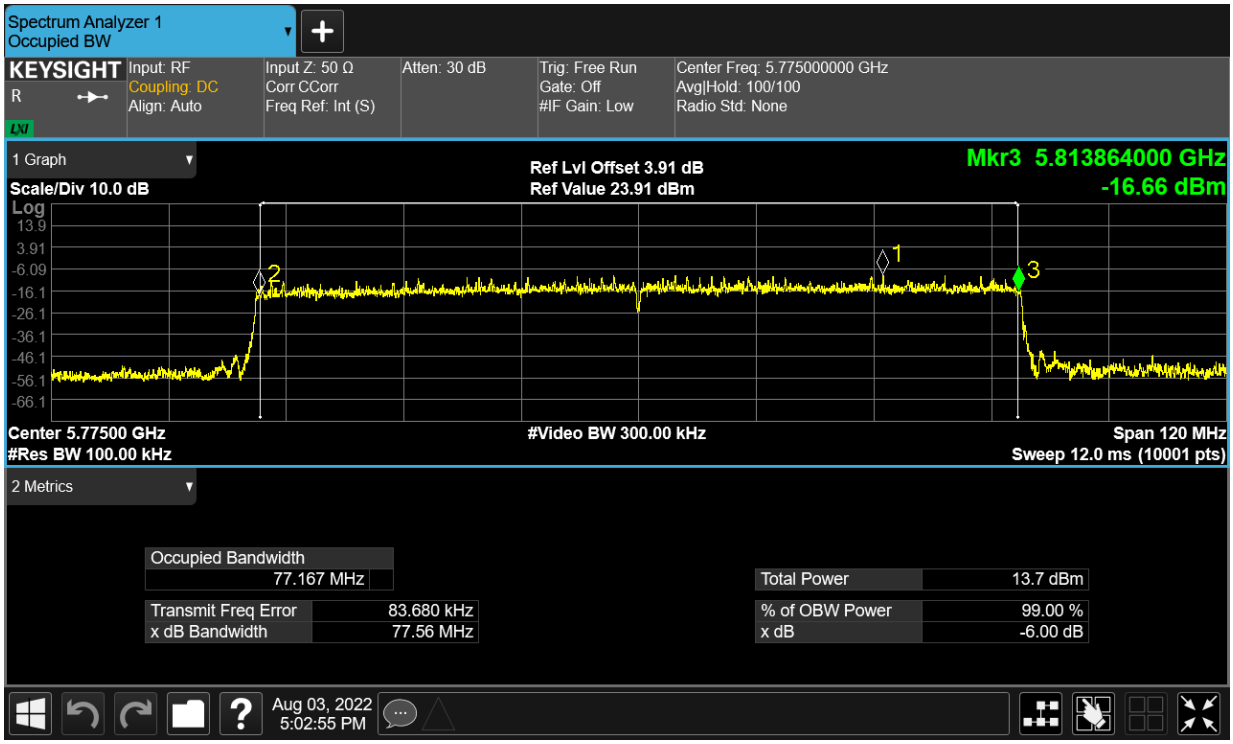
-6dB Bandwidth NVNT ax40 5795MHz Ant1



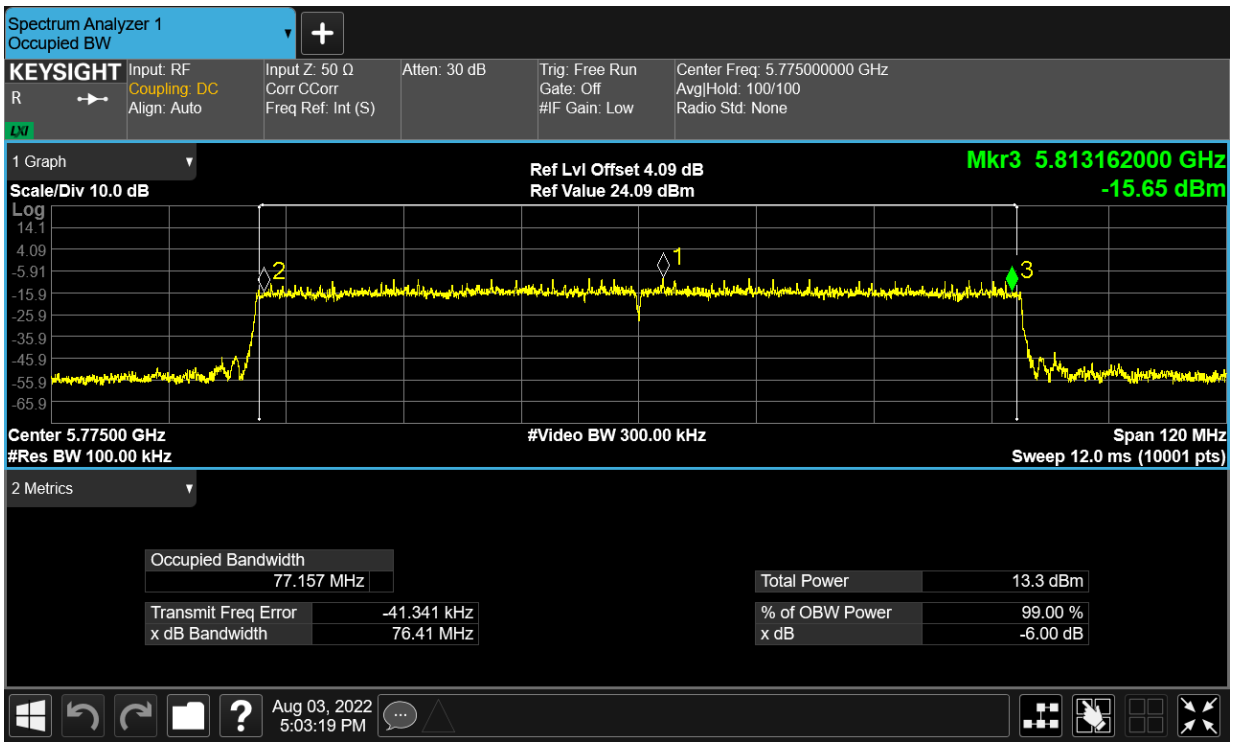
-6dB Bandwidth NVNT ax40 5795MHz Ant2



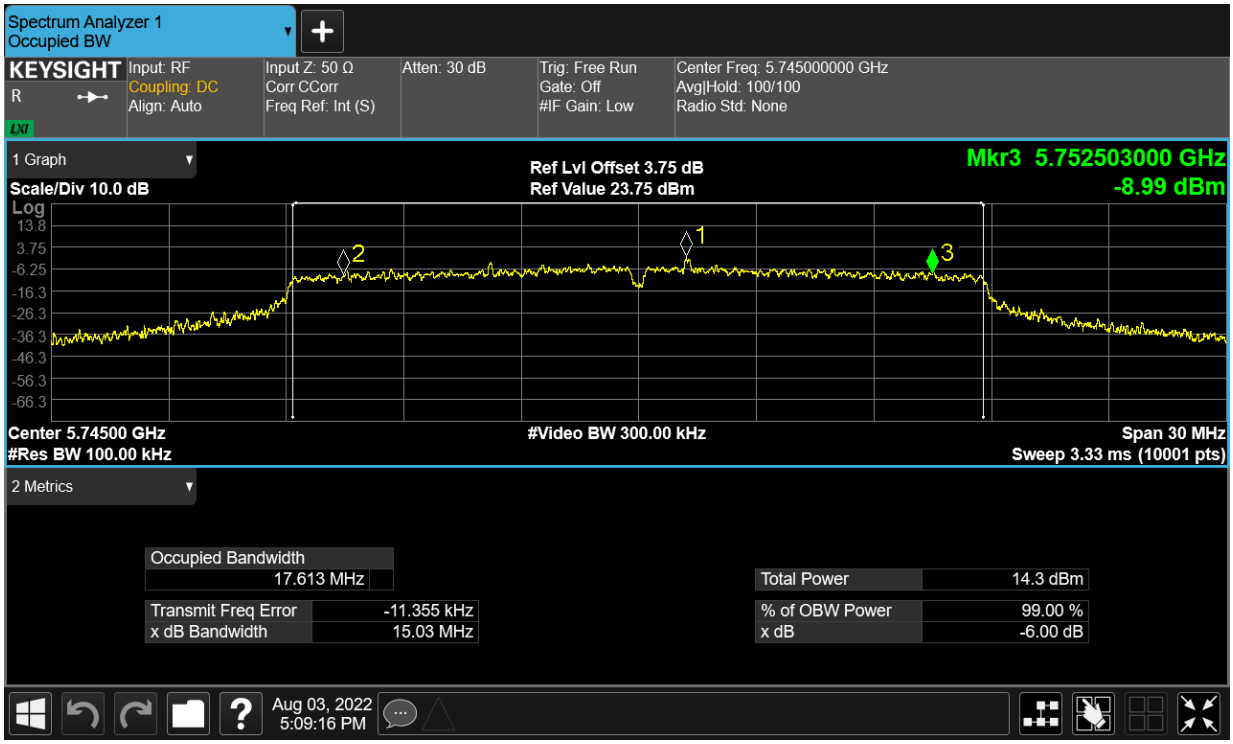
-6dB Bandwidth NVNT ax80 5775MHz Ant1



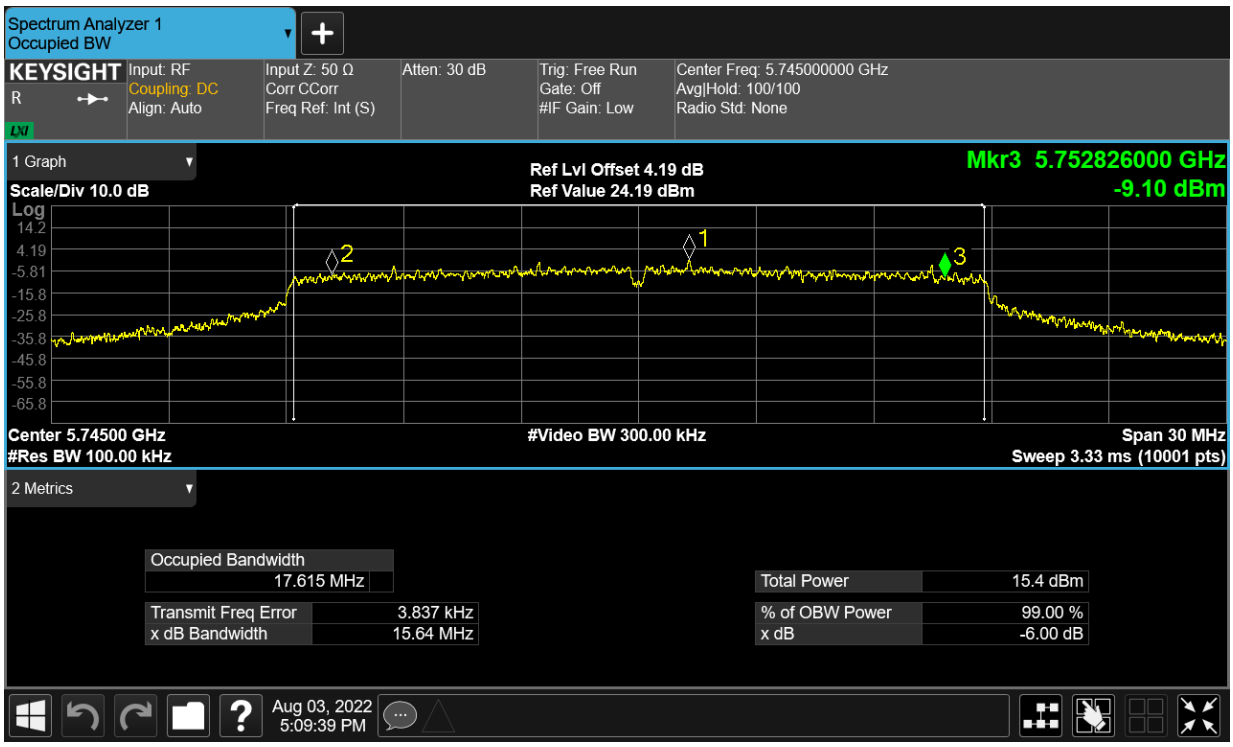
-6dB Bandwidth NVNT ax80 5775MHz Ant2



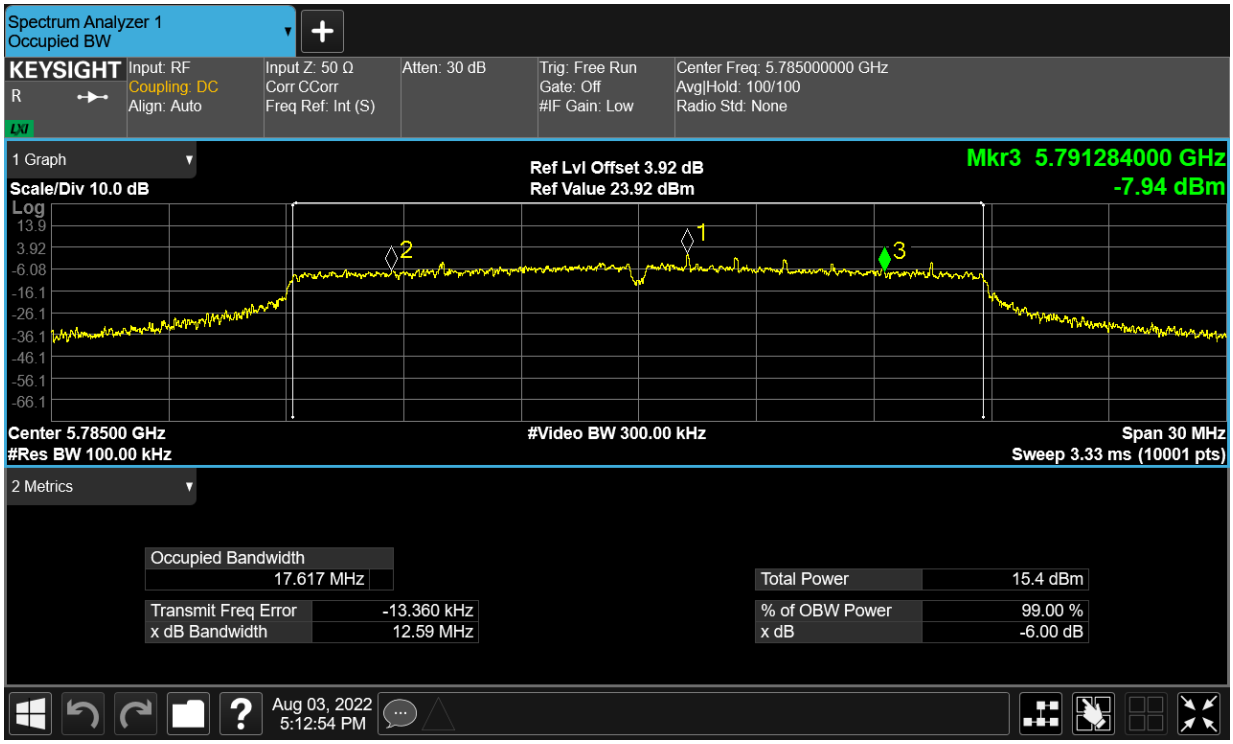
-6dB Bandwidth NVNT n20 5745MHz Ant1



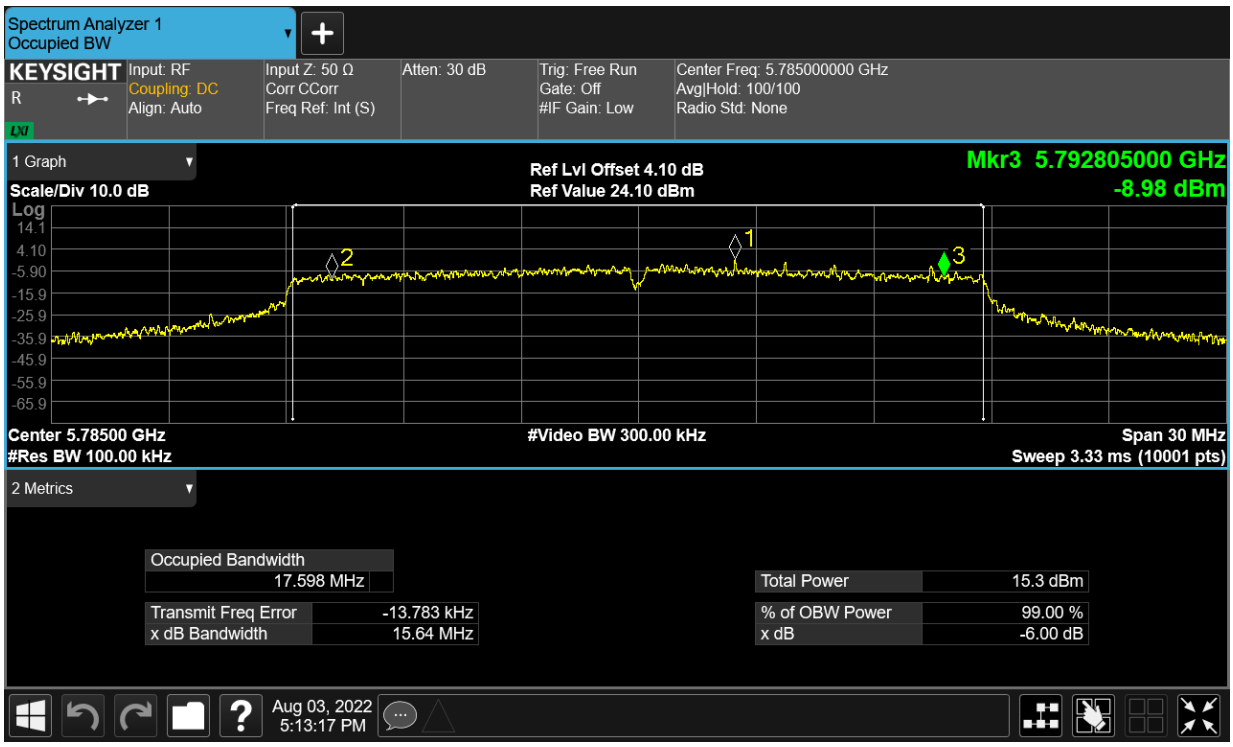
-6dB Bandwidth NVNT n20 5745MHz Ant2



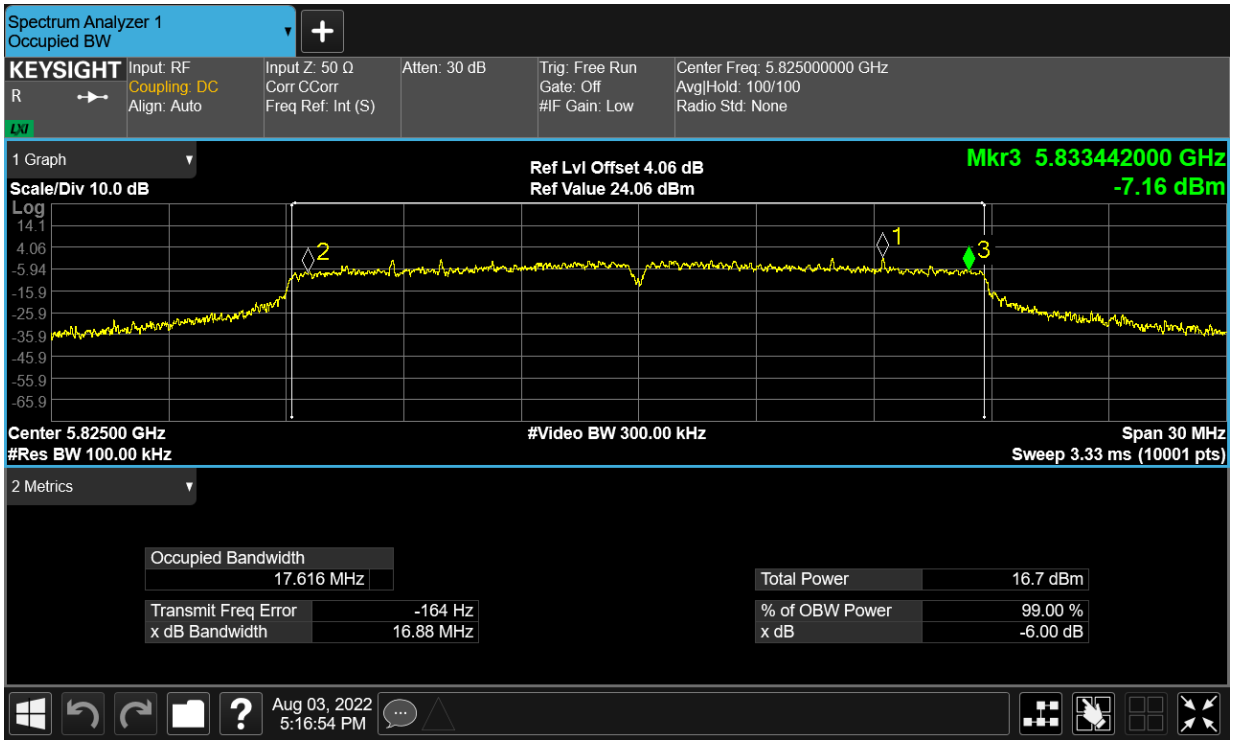
-6dB Bandwidth NVNT n20 5785MHz Ant1



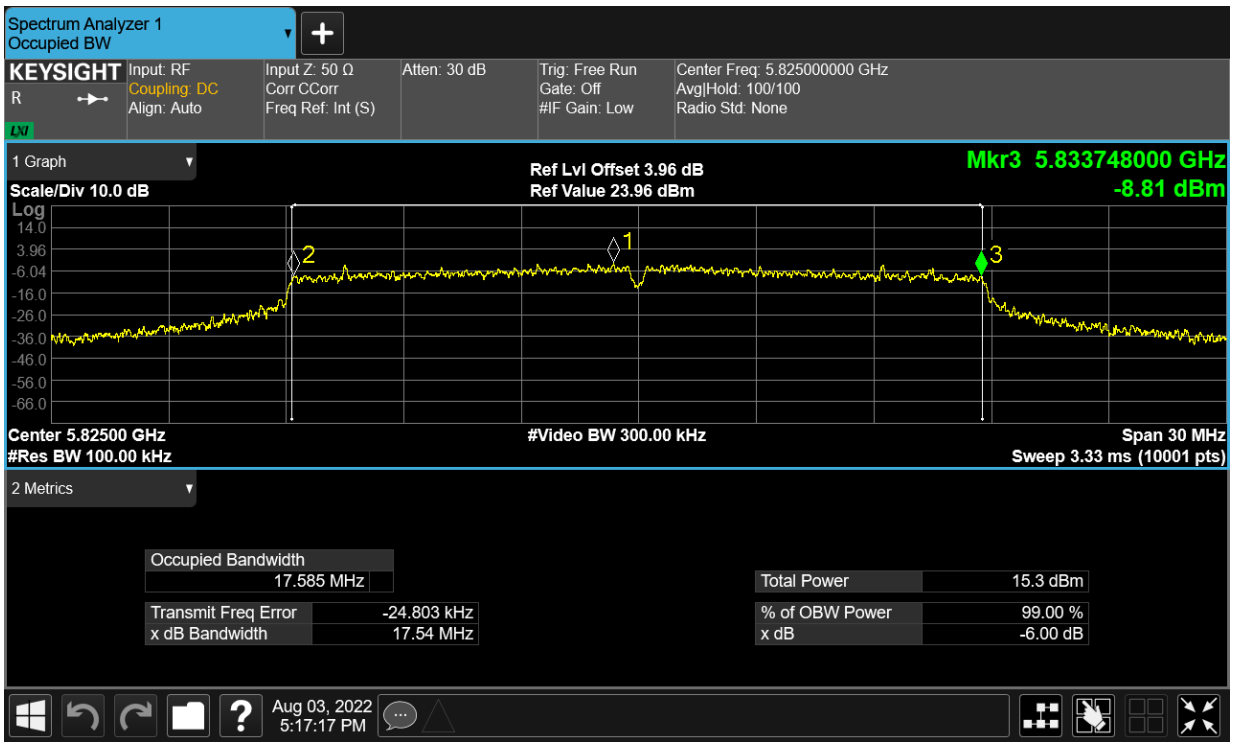
-6dB Bandwidth NVNT n20 5785MHz Ant2



-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n20 5825MHz Ant2



-6dB Bandwidth NVNT n40 5755MHz Ant1