Test Data

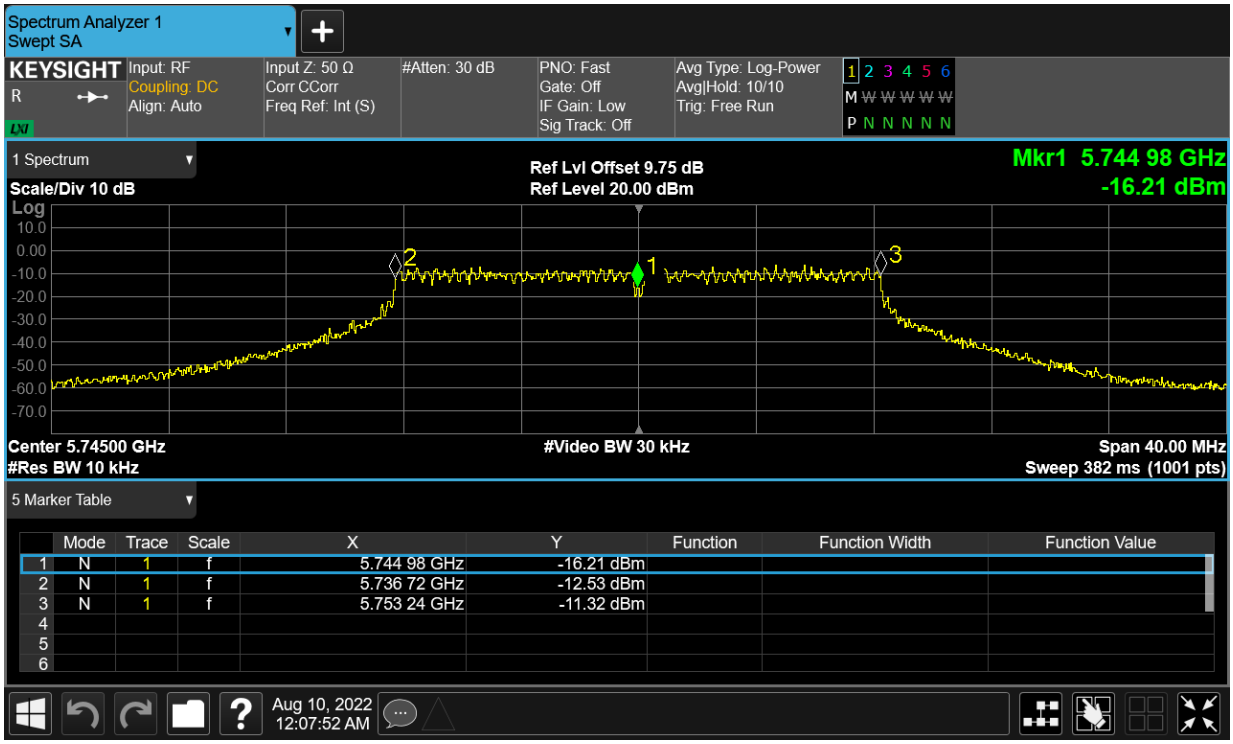
Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5745	Ant1	5744.98	-3.48	Within authorized band	Pass
HVNT	a	5745	Ant2	5745	0		Pass
LVNT	a	5745	Ant1	5745	0		Pass
LVNT	a	5745	Ant2	5744.98	-3.48		Pass
NVHT	a	5745	Ant1	5745	0		Pass
NVHT	a	5745	Ant2	5745	0		Pass
NVLT	a	5745	Ant1	5744.98	-3.48		Pass
NVLT	a	5745	Ant2	5744.98	-3.48		Pass
NVNT	a	5745	Ant1	5744.96	-6.96		Pass
NVNT	a	5745	Ant2	5744.98	-3.48		Pass
HVNT	ac20	5745	Sum	5744.98	-3.48		Pass
LVNT	ac20	5745	Sum	5744.98	-3.48		Pass
NVHT	ac20	5745	Sum	5744.98	-3.48		Pass
NVLT	ac20	5745	Sum	5745	0		Pass
NVNT	ac20	5745	Sum	5745	0		Pass
HVNT	ax20	5745	Sum	5745	0		Pass
LVNT	ax20	5745	Sum	5744.98	-3.48		Pass
NVHT	ax20	5745	Sum	5744.98	-3.48		Pass
NVLT	ax20	5745	Sum	5744.98	-3.48		Pass
NVNT	ax20	5745	Sum	5745	0		Pass
HVNT	ax40	5755	Sum	5755	0		Pass
LVNT	ax40	5755	Sum	5754.96	-6.95		Pass
NVHT	ax40	5755	Sum	5755	0		Pass
NVLT	ax40	5755	Sum	5755	0		Pass
NVNT	ax40	5755	Sum	5755	0		Pass
HVNT	ax80	5775	Sum	5775	0		Pass
LVNT	ax80	5775	Sum	5775	0		Pass
NVHT	ax80	5775	Sum	5775	0		Pass
NVLT	ax80	5775	Sum	5775	0		Pass
NVNT	ax80	5775	Sum	5775	0		Pass
HVNT	n20	5745	Sum	5745	0		Pass
LVNT	n20	5745	Sum	5745	0		Pass
NVHT	n20	5745	Sum	5744.98	-3.48		Pass
NVLT	n20	5745	Sum	5745	0		Pass
NVNT	n20	5745	Sum	5744.98	-3.48		Pass
HVNT	n40	5755	Sum	5755	0		Pass
LVNT	n40	5755	Sum	5755	0		Pass
NVHT	n40	5755	Sum	5755	0		Pass
NVLT	n40	5755	Sum	5754.96	-6.95		Pass

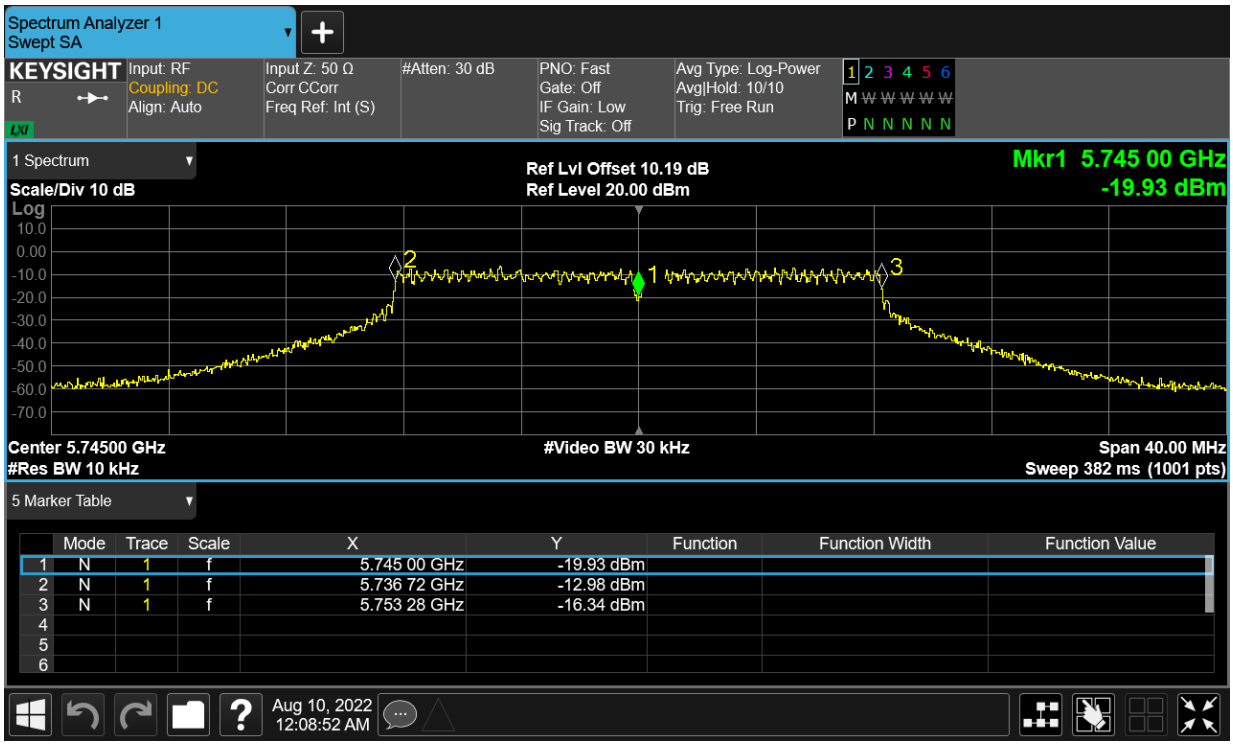
NVNT	n40	5755	Sum	5755	0		Pass
Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.							

Test Graphs

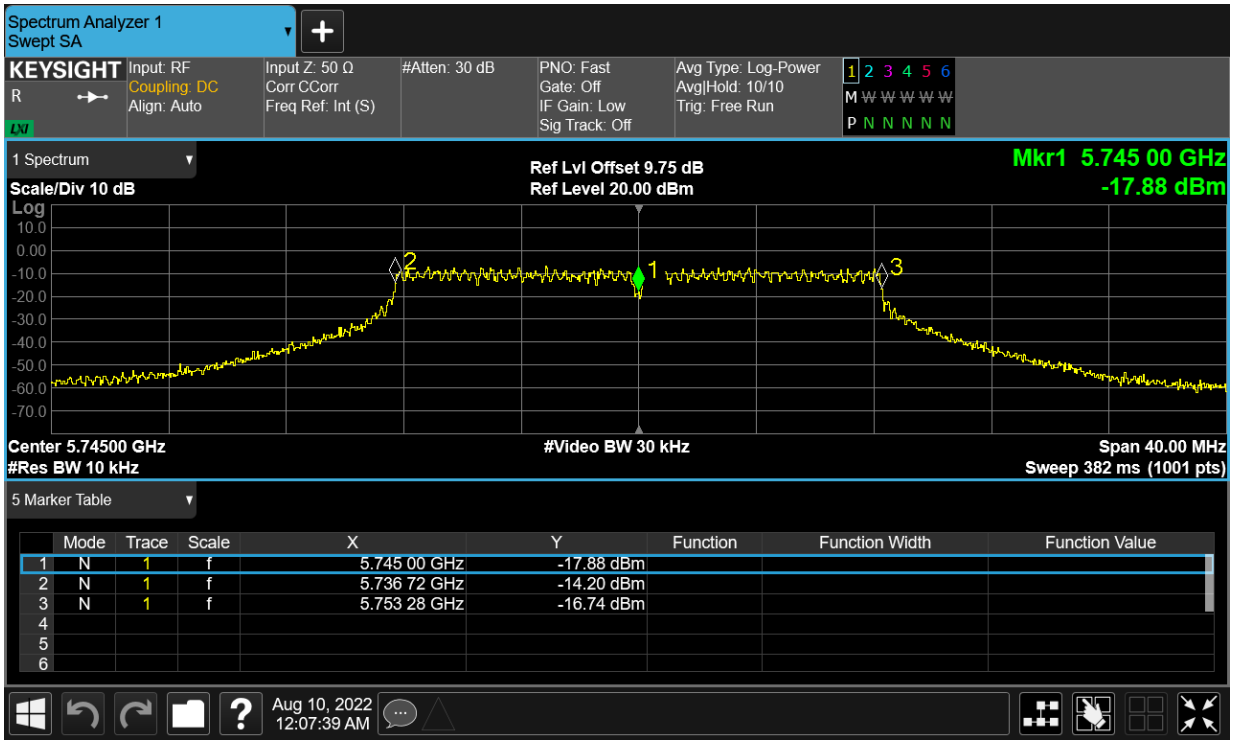
Freq. Stability HVNT a 5745MHz Ant1



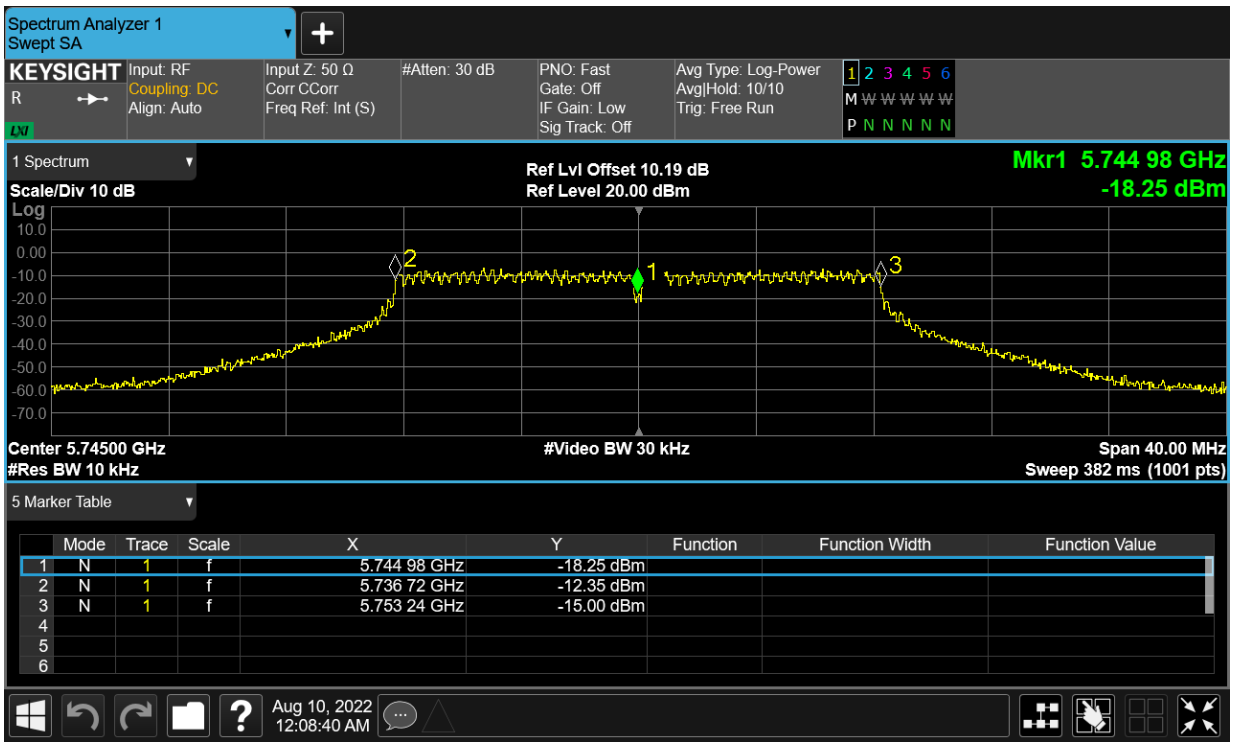
Freq. Stability HVNT a 5745MHz Ant2



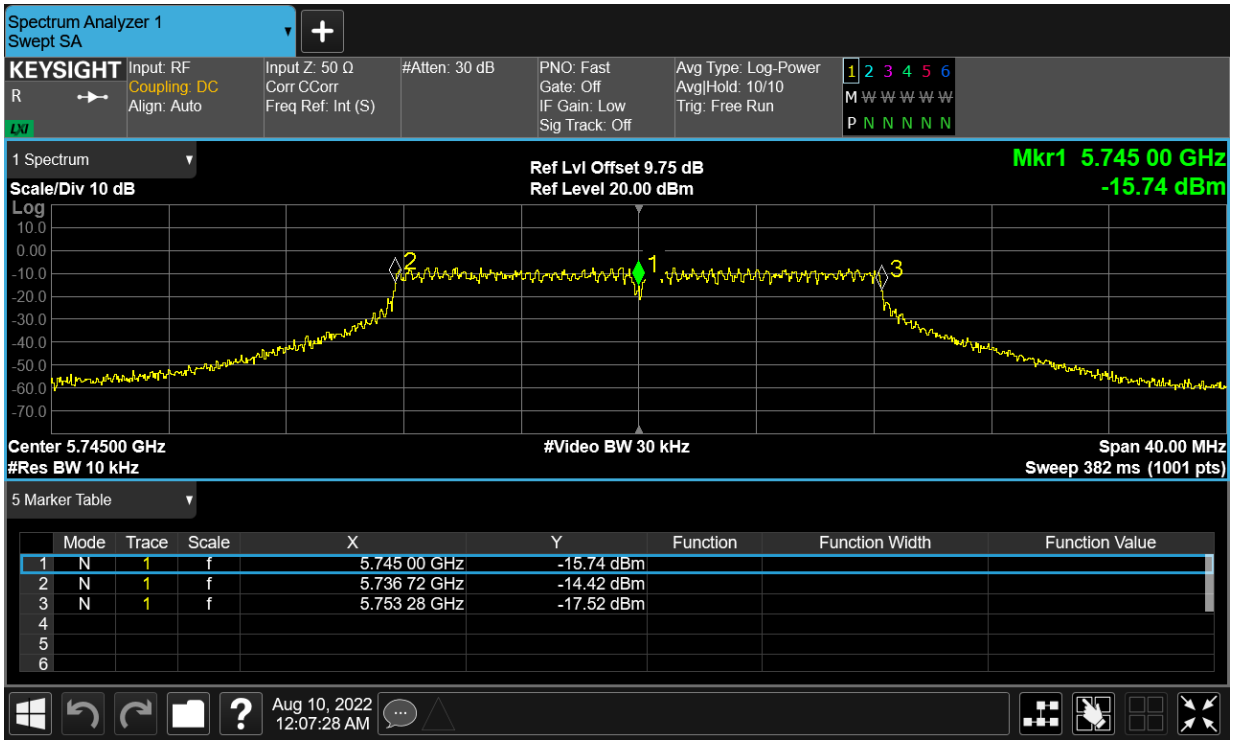
Freq. Stability LVNT a 5745MHz Ant1



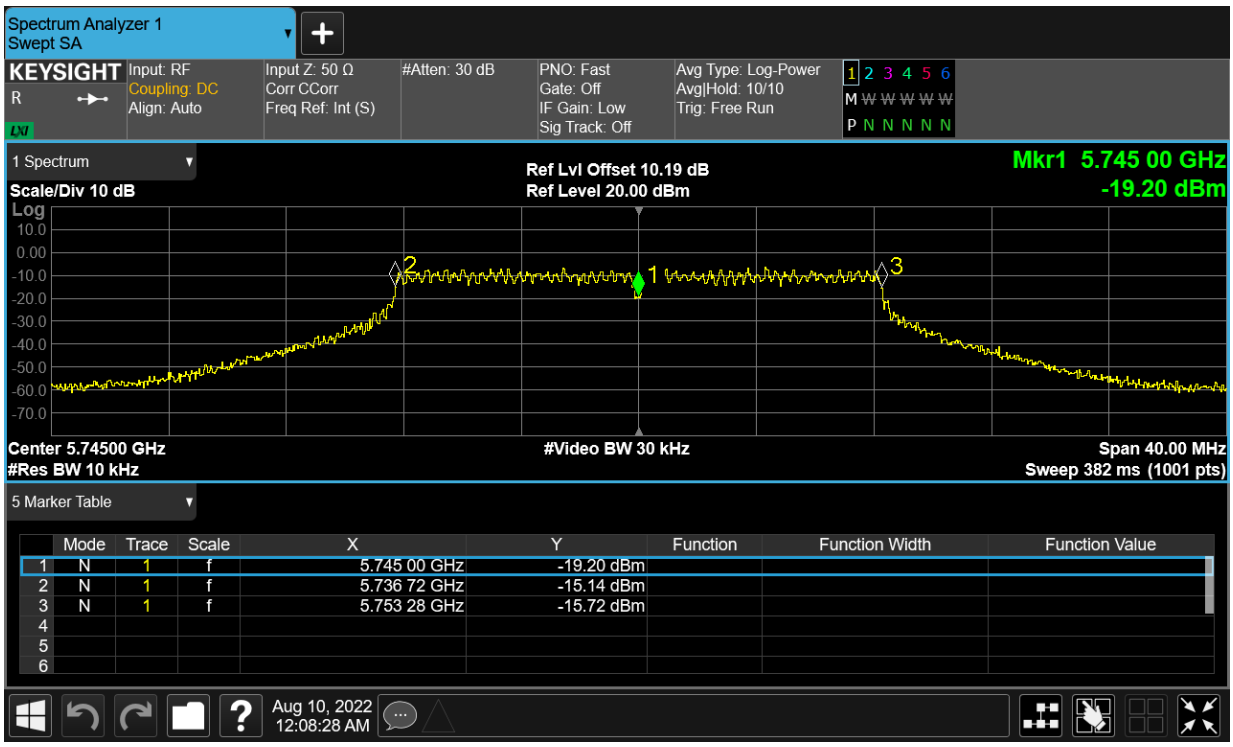
Freq. Stability LVNT a 5745MHz Ant2



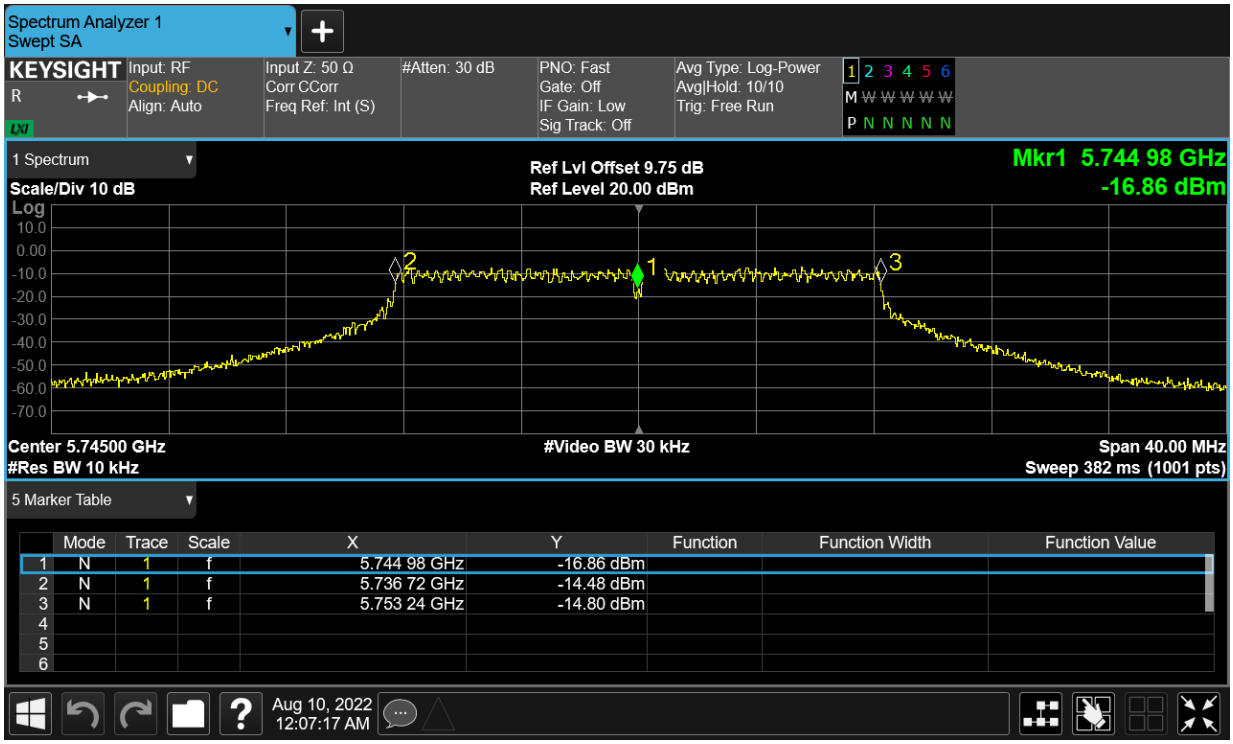
Freq. Stability NVHT a 5745MHz Ant1



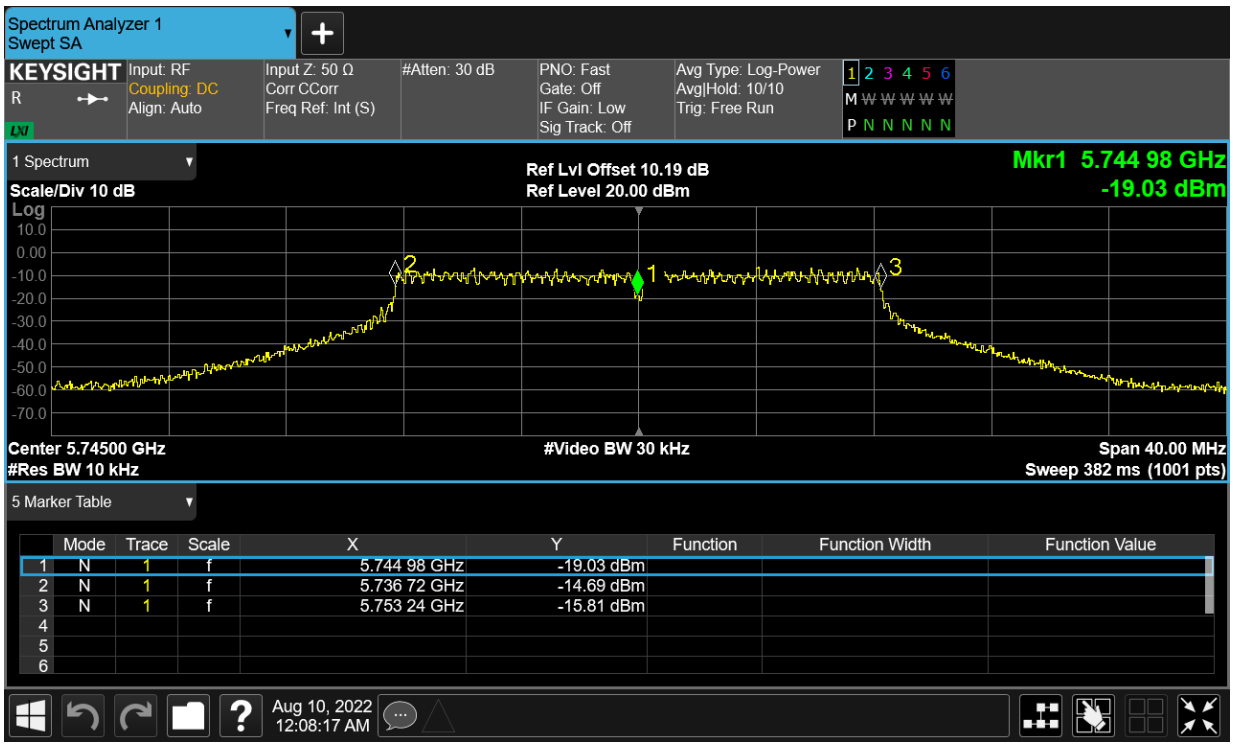
Freq. Stability NVHT a 5745MHz Ant2



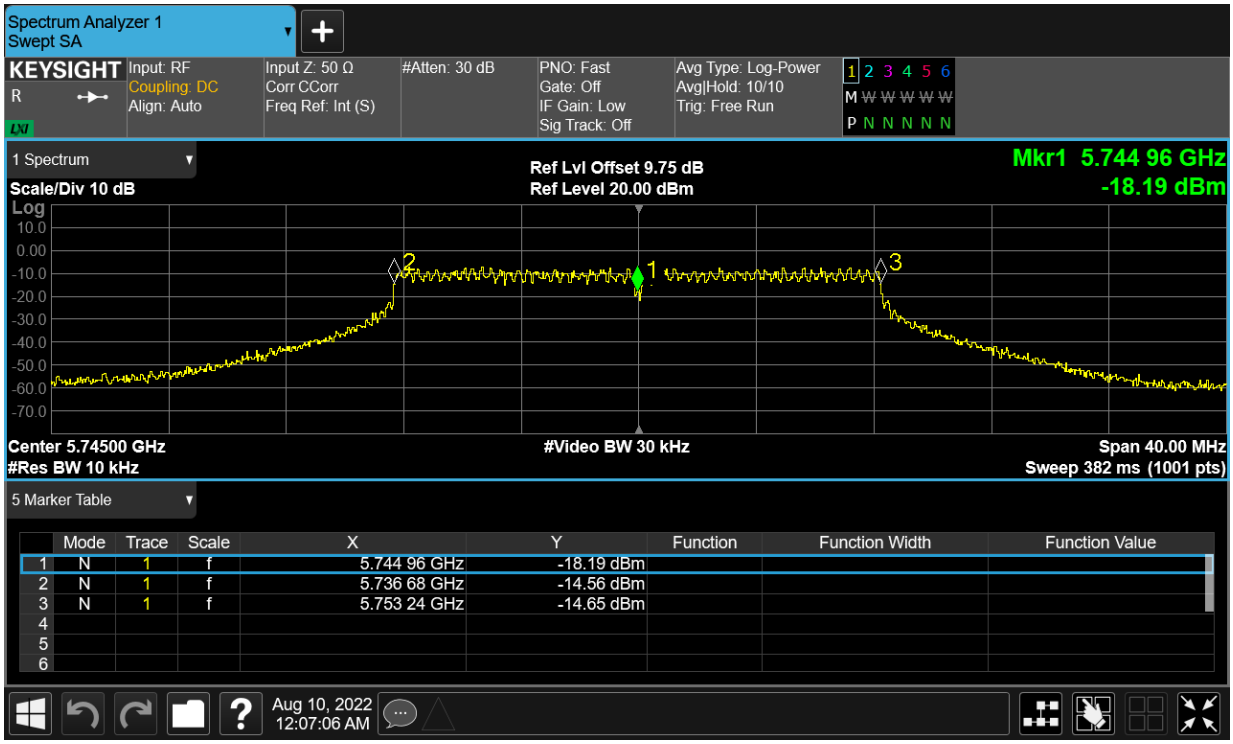
Freq. Stability NVLT a 5745MHz Ant1



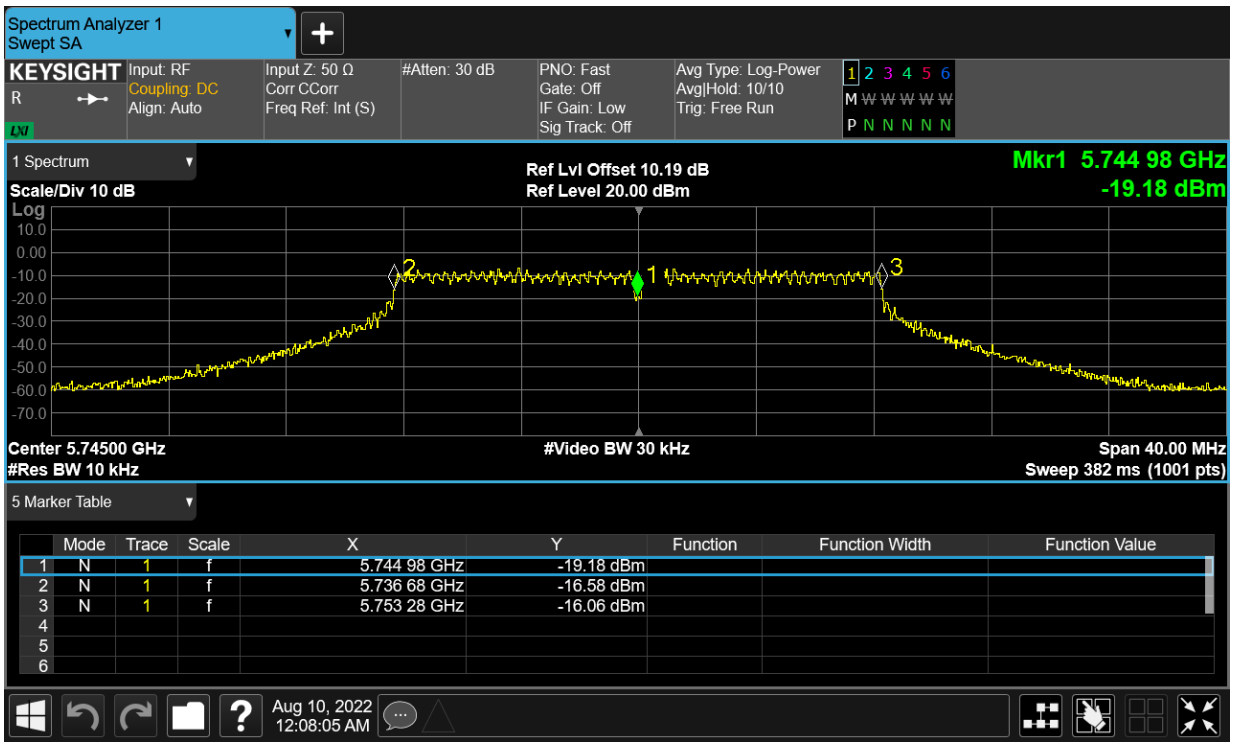
Freq. Stability NVLT a 5745MHz Ant2



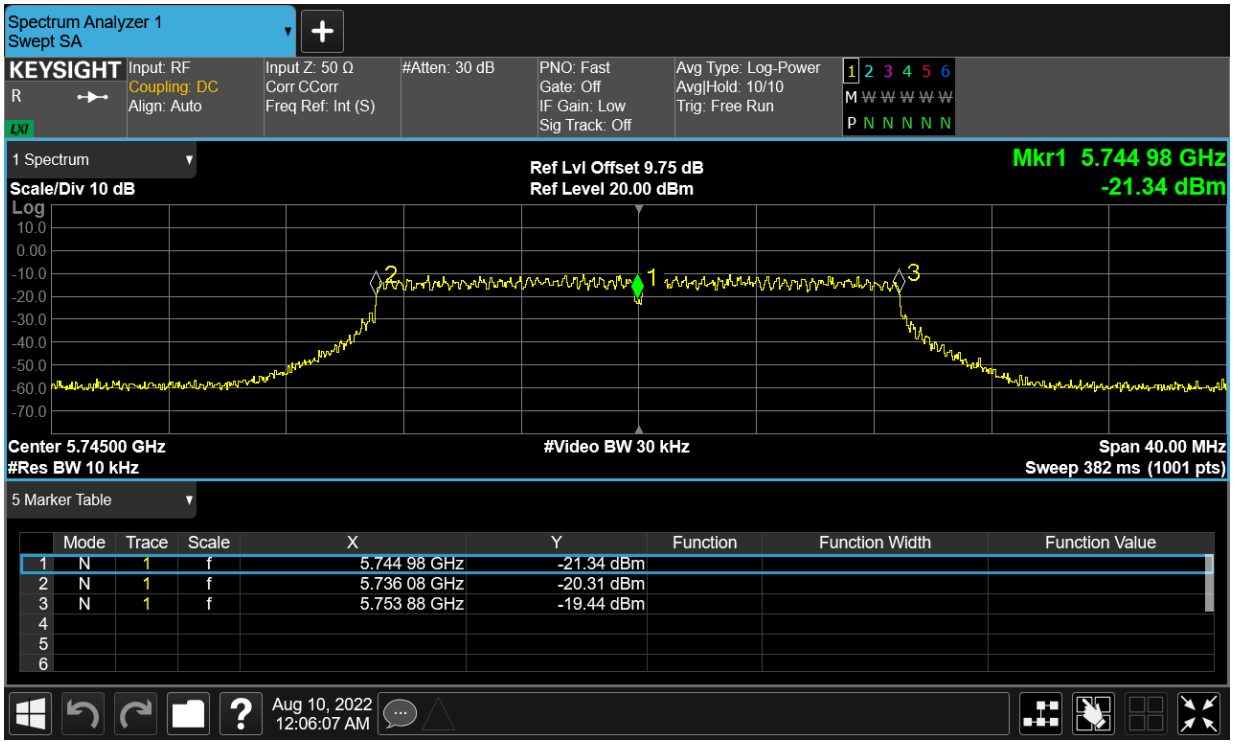
Freq. Stability NVNT a 5745MHz Ant1



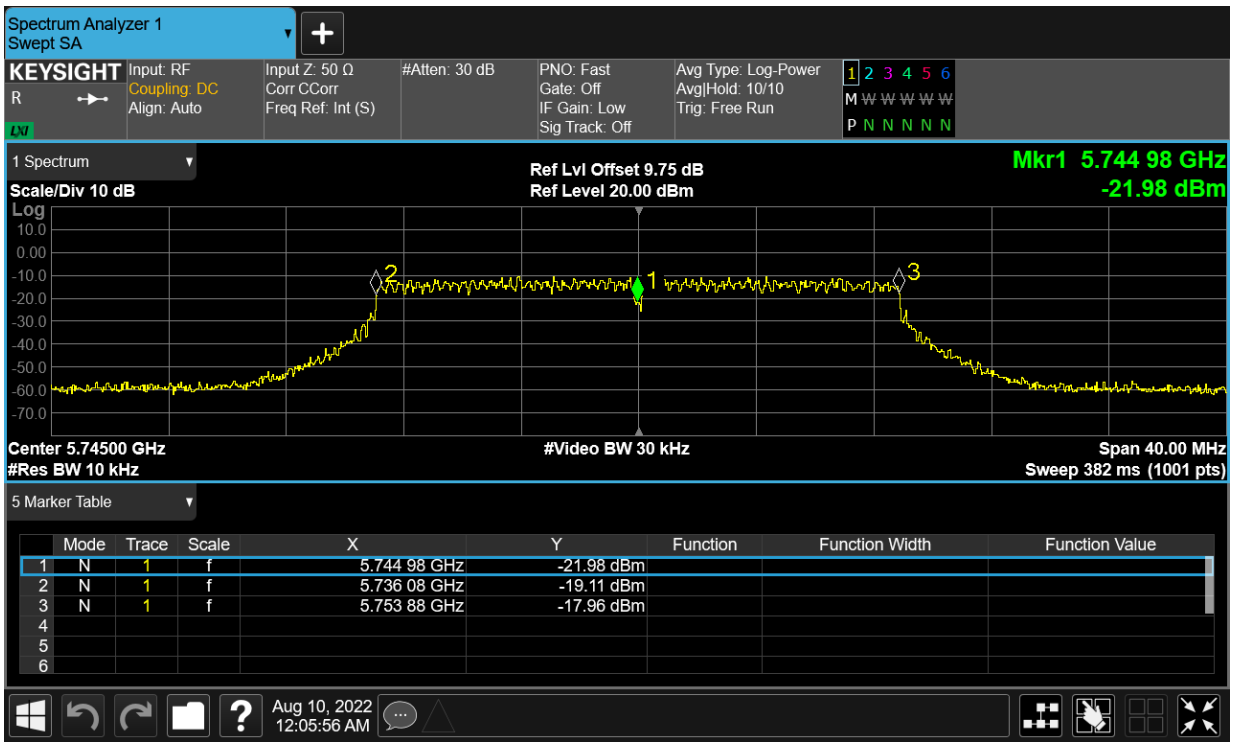
Freq. Stability NVNT a 5745MHz Ant2



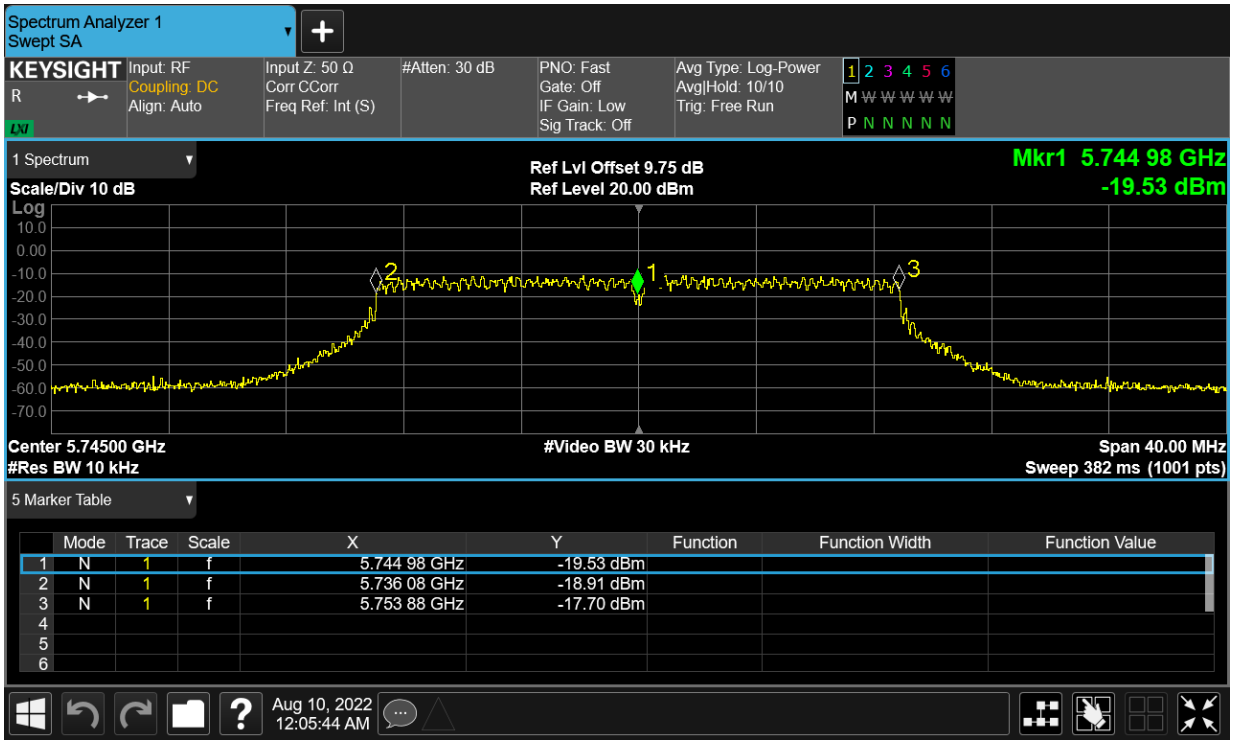
Freq. Stability HVNT ac20 5745MHz Sum



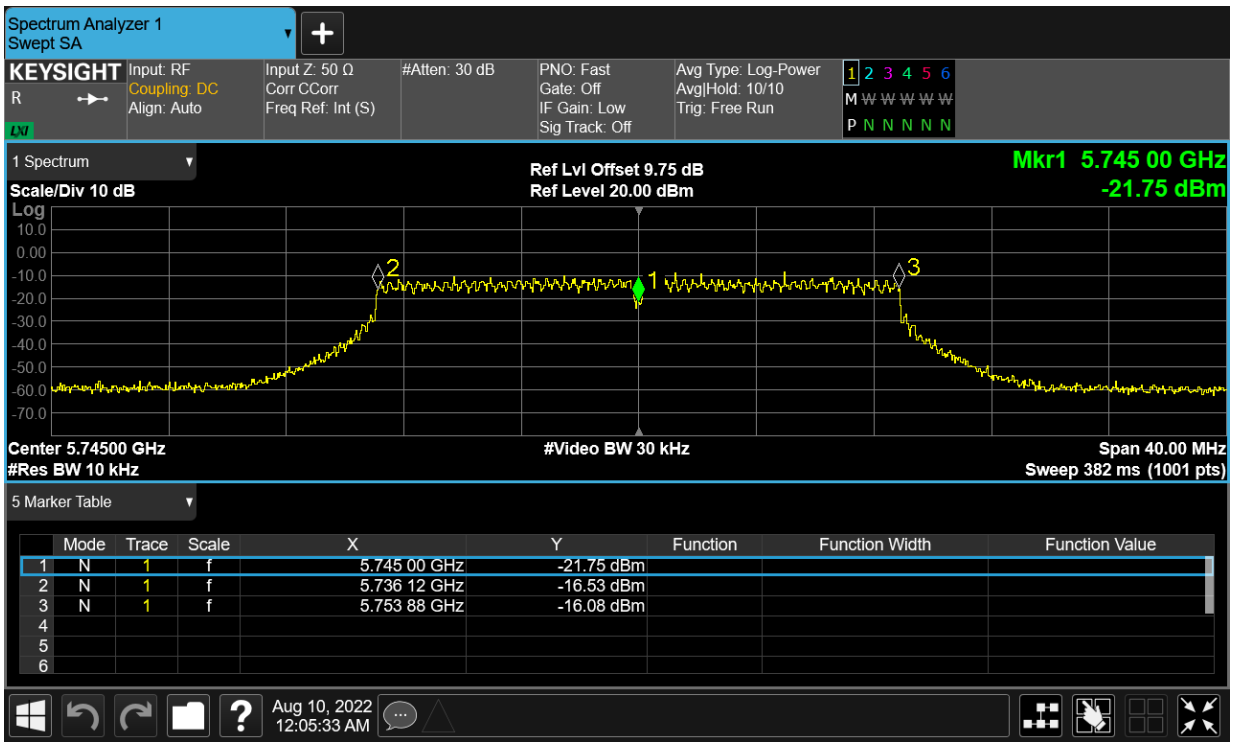
Freq. Stability LVNT ac20 5745MHz Sum



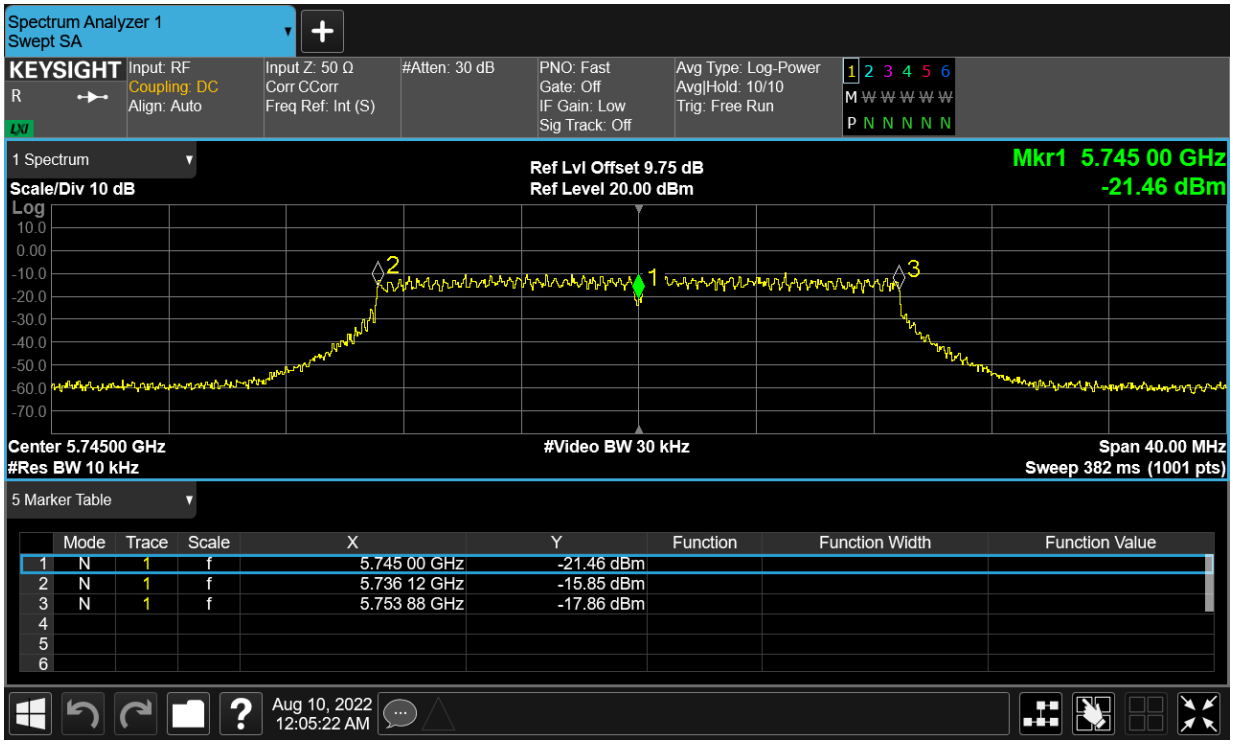
Freq. Stability NVHT ac20 5745MHz Sum



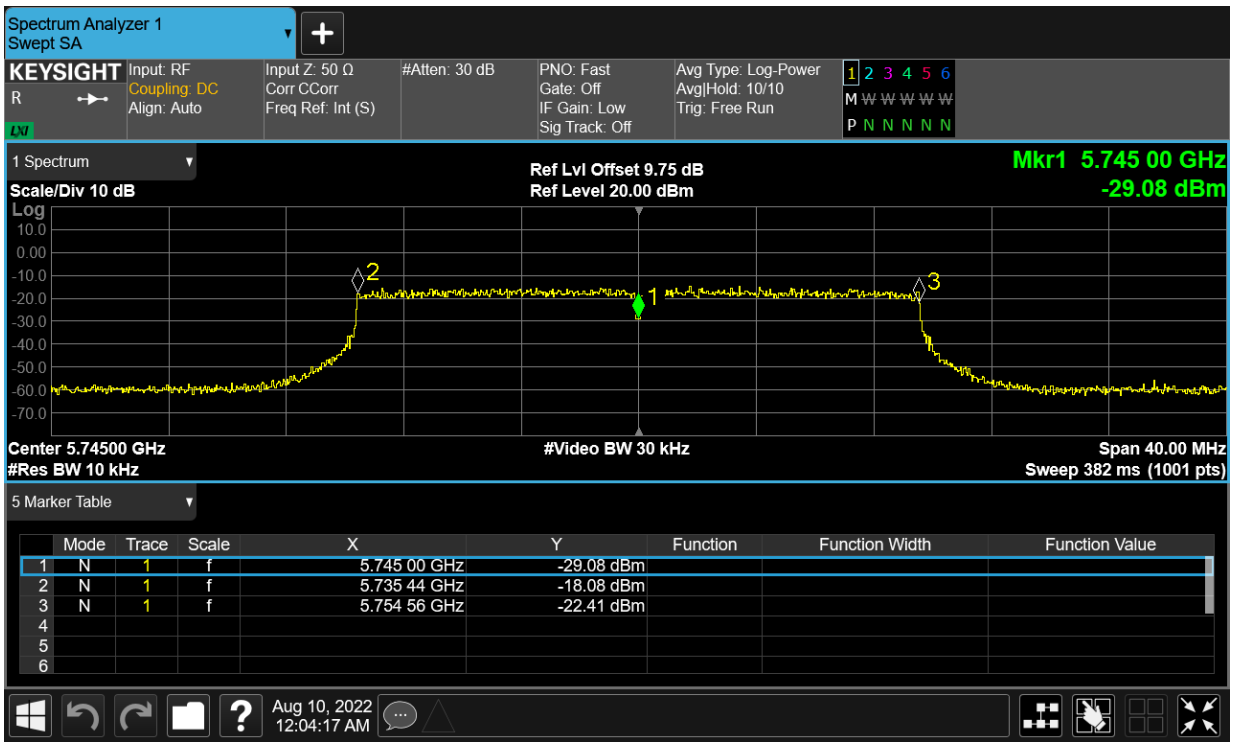
Freq. Stability NVLT ac20 5745MHz Sum



Freq. Stability NVNT ac20 5745MHz Sum

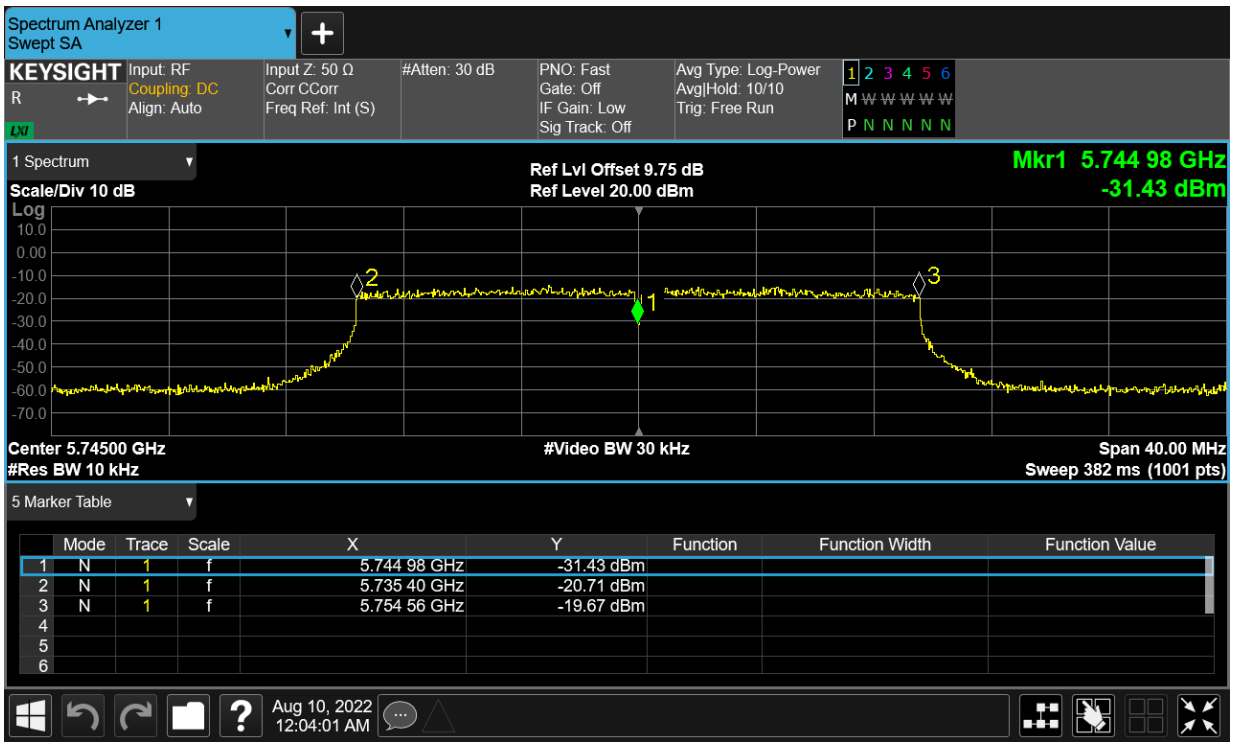


Freq. Stability HVNT ax20 5745MHz Sum

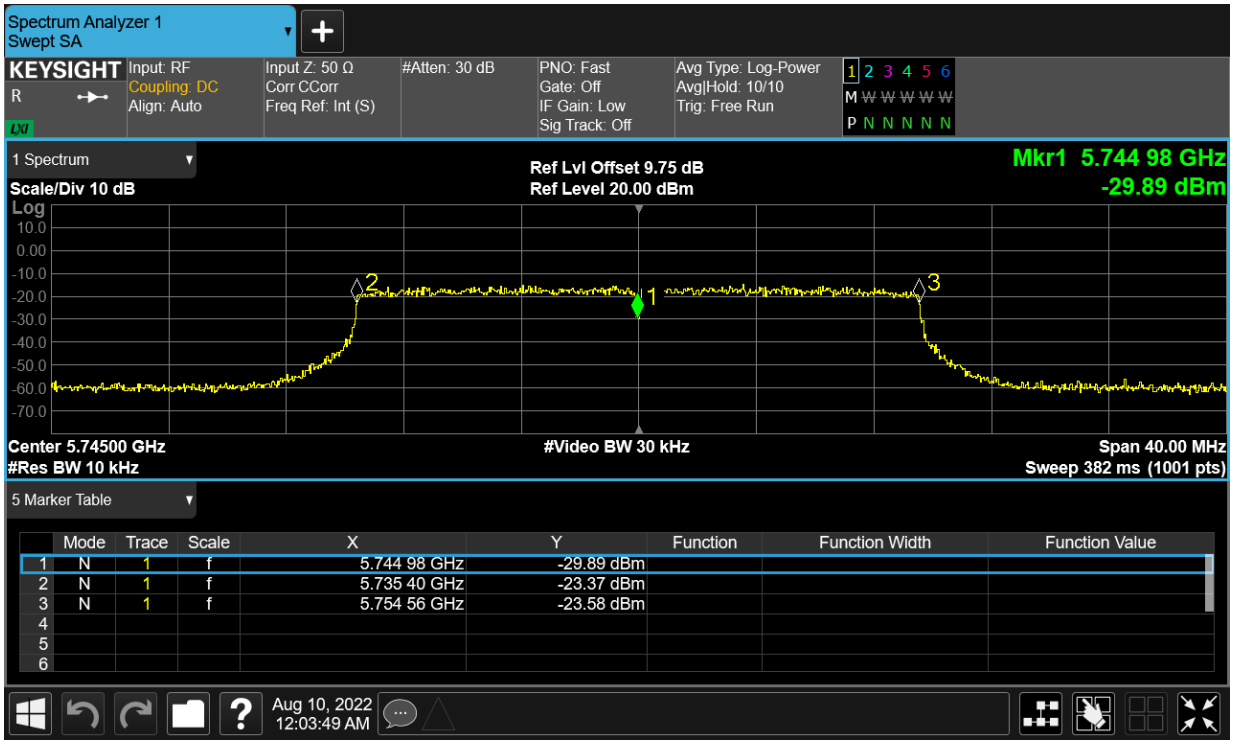


Freq. Stability LVNT ax20 5745MHz Sum

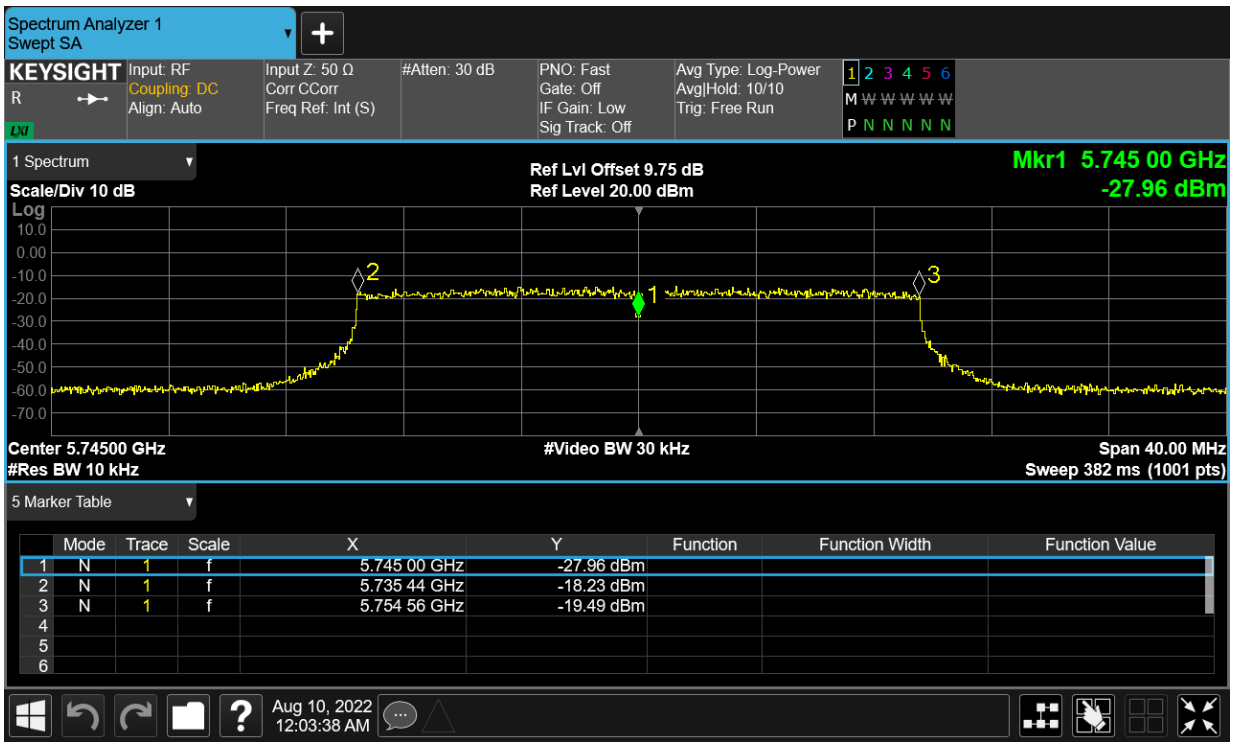
Freq. Stability NVHT ax20 5745MHz Sum



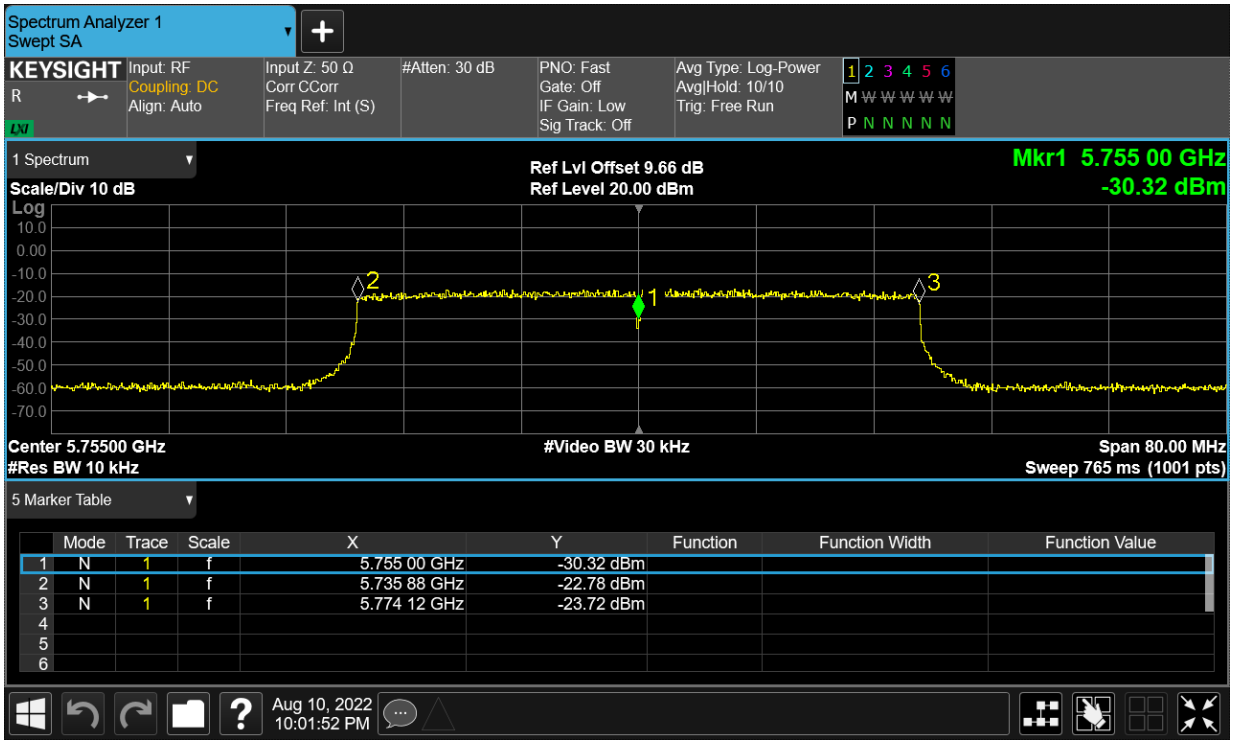
Freq. Stability NVLT ax20 5745MHz Sum



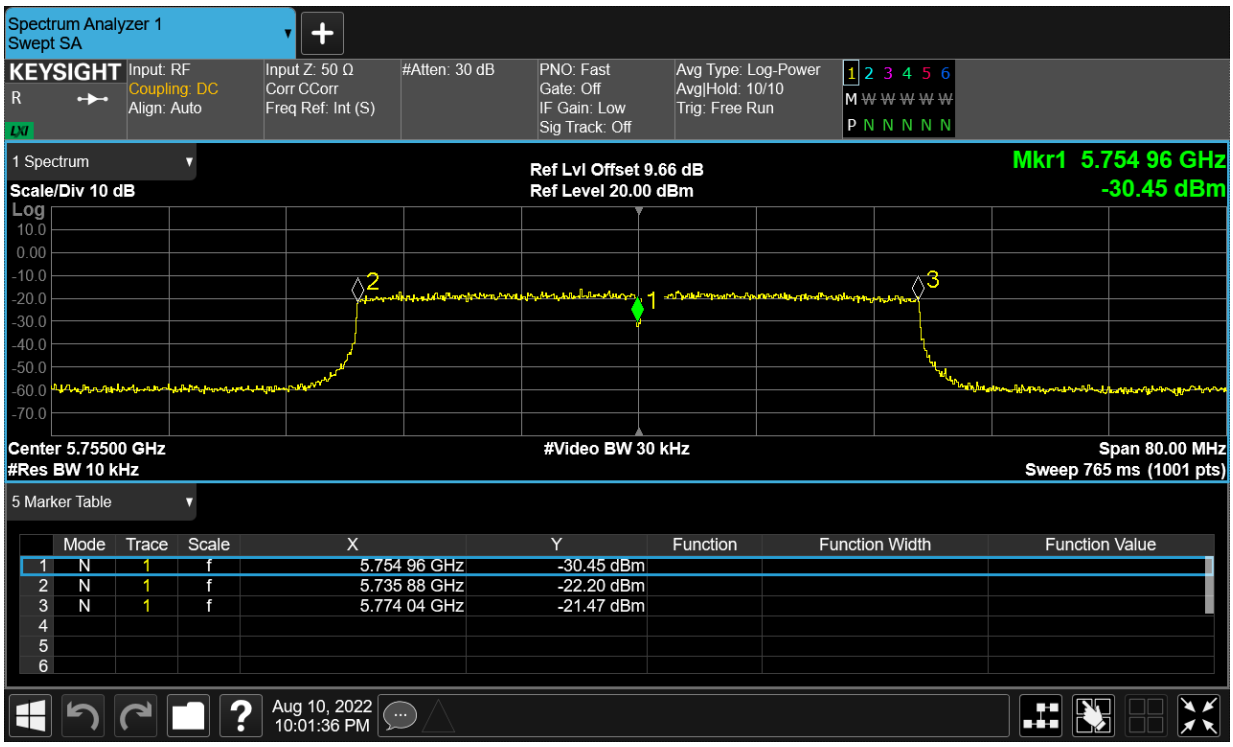
Freq. Stability NVNT ax20 5745MHz Sum



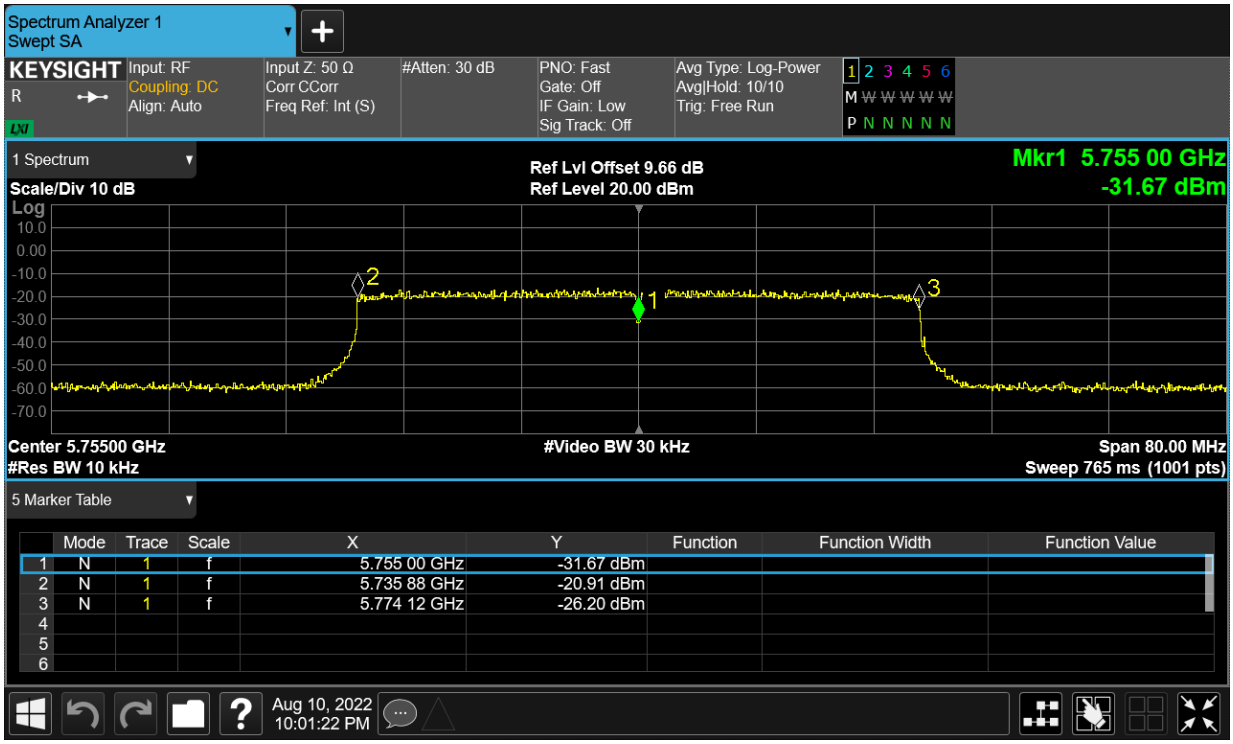
Freq. Stability HVNT ax40 5755MHz Sum



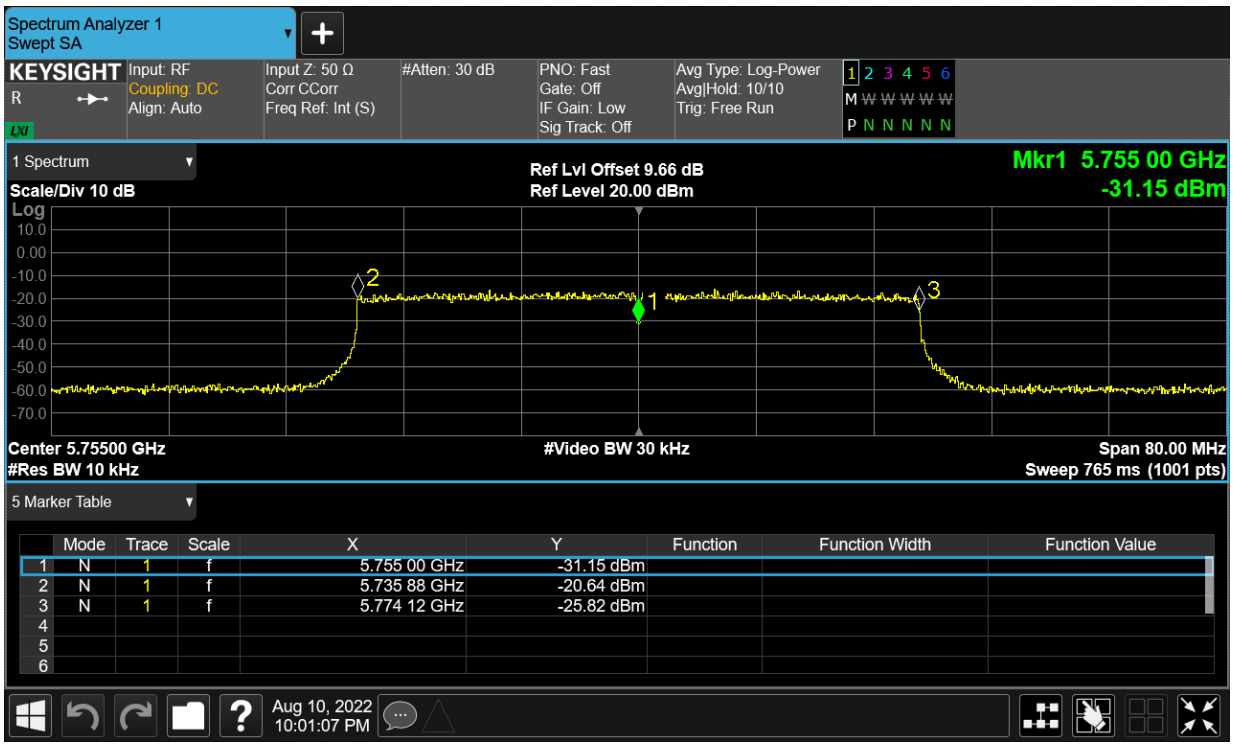
Freq. Stability LVNT ax40 5755MHz Sum



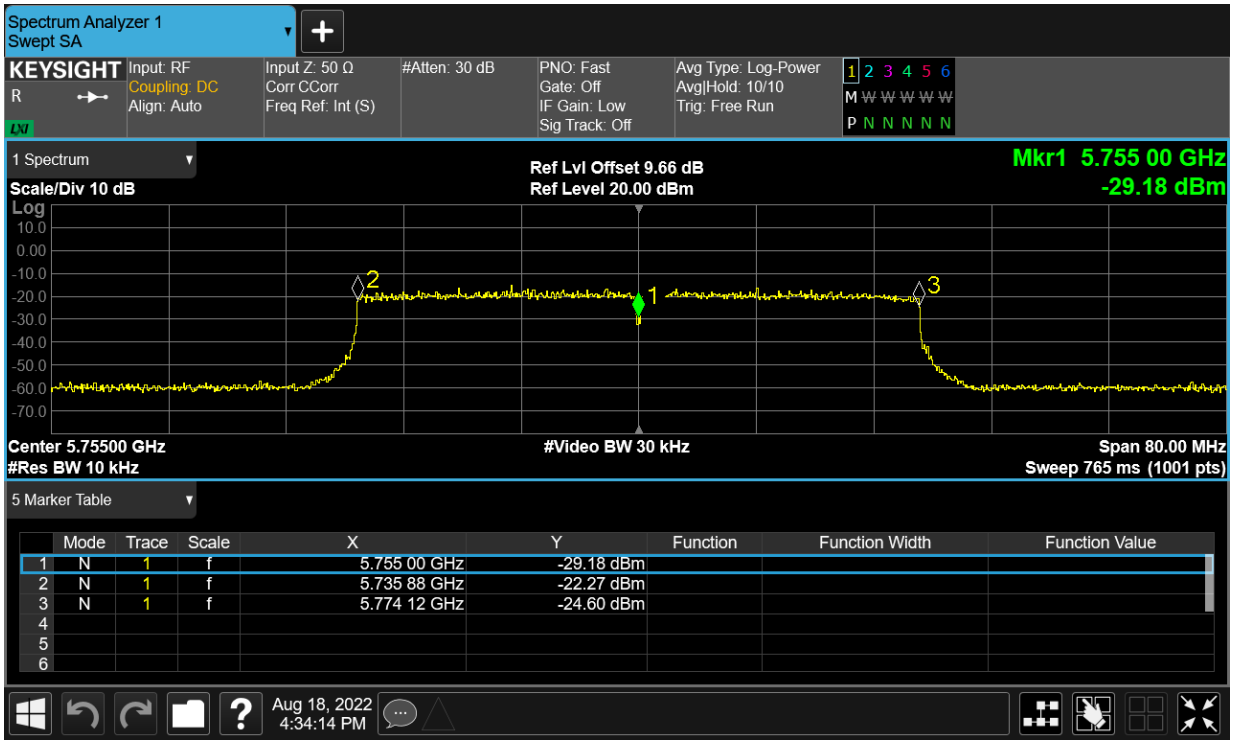
Freq. Stability NVHT ax40 5755MHz Sum



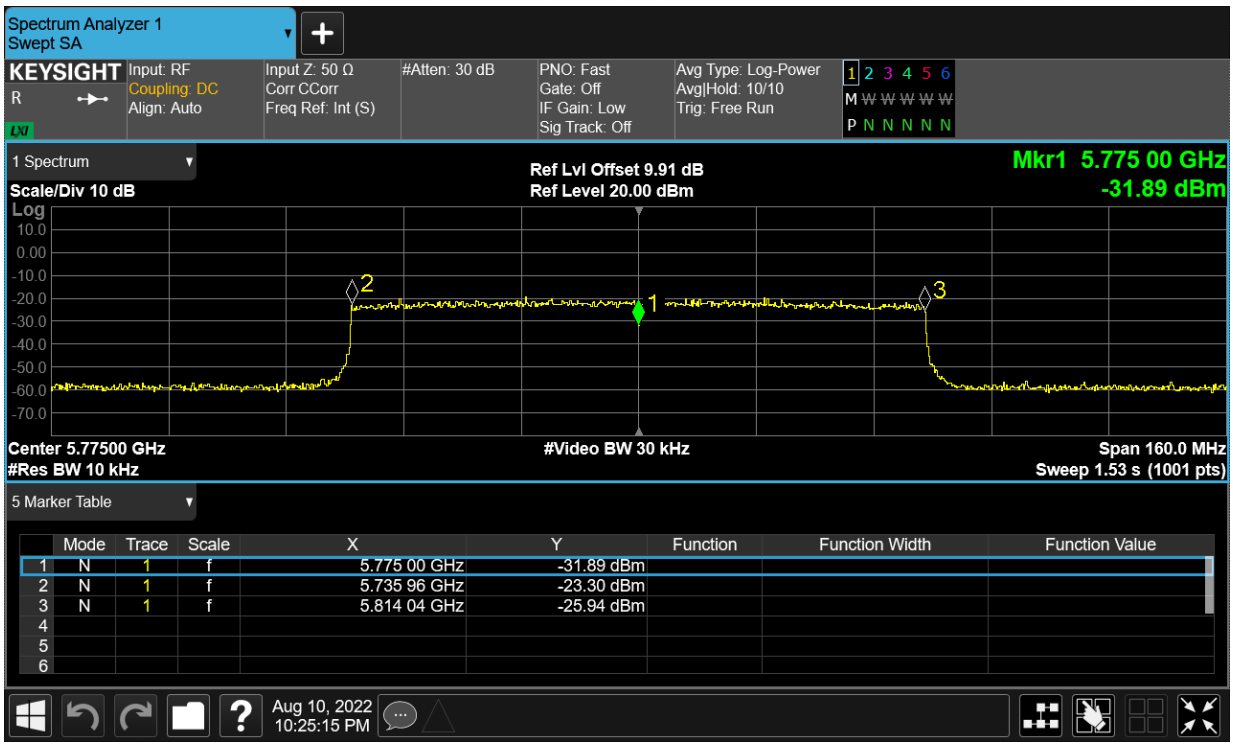
Freq. Stability NVLT ax40 5755MHz Sum



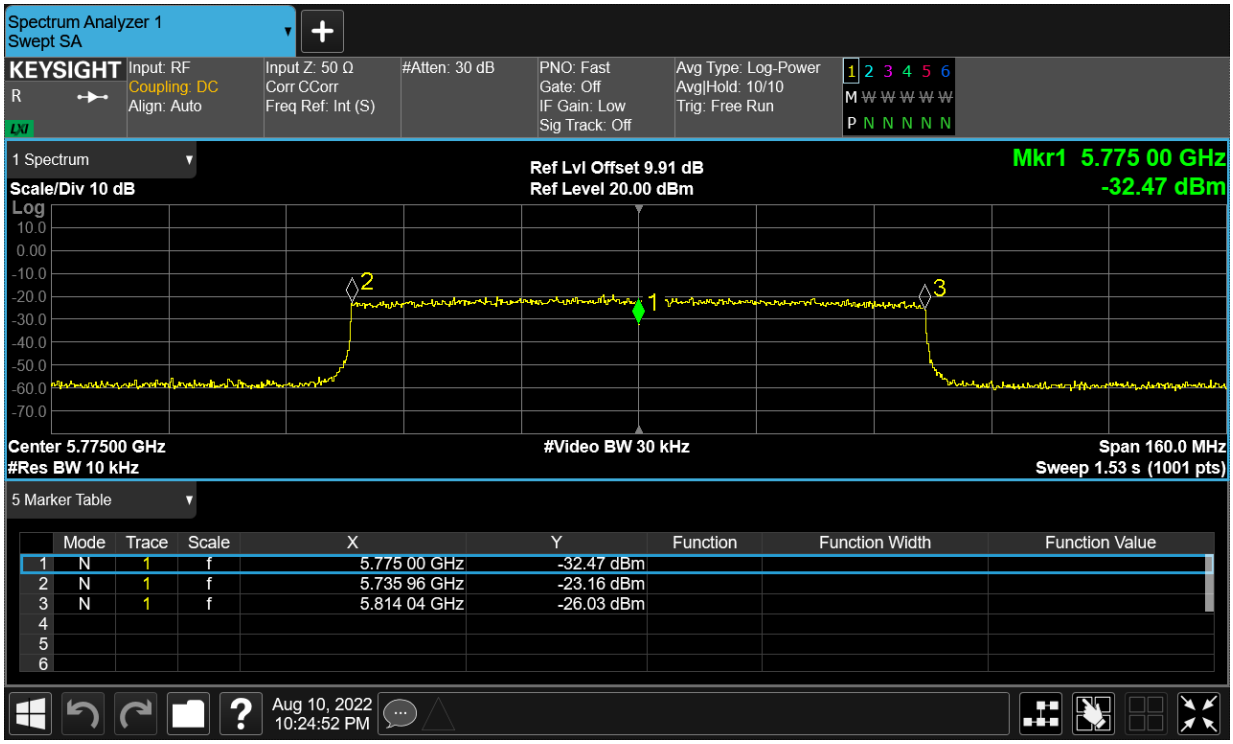
Freq. Stability NVNT ax40 5755MHz Sum



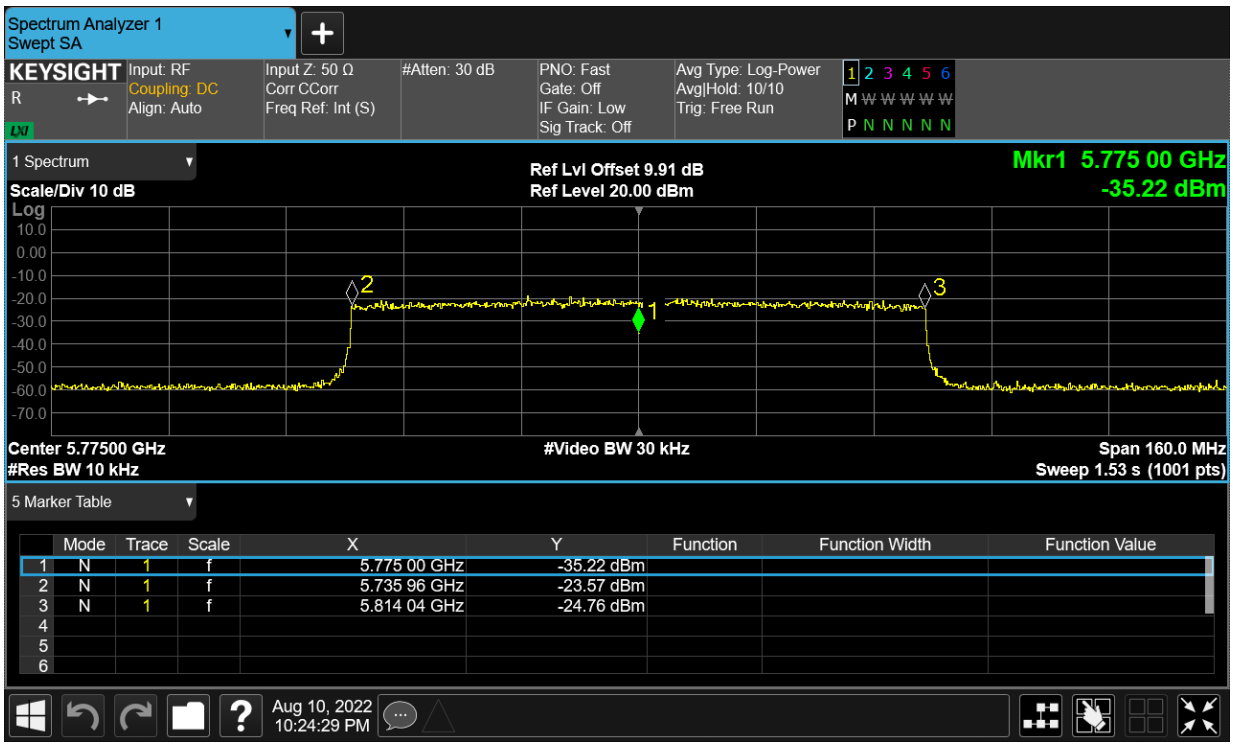
Freq. Stability HVNT ax80 5775MHz Sum



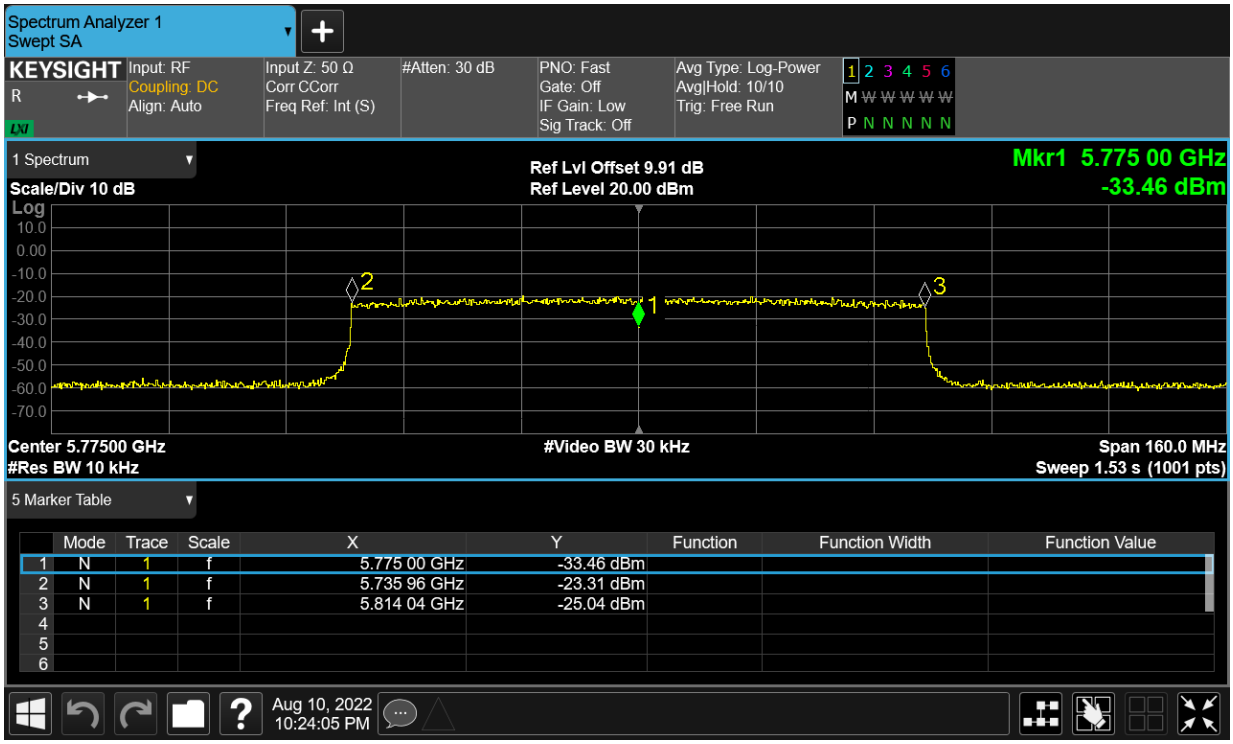
Freq. Stability LVNT ax80 5775MHz Sum



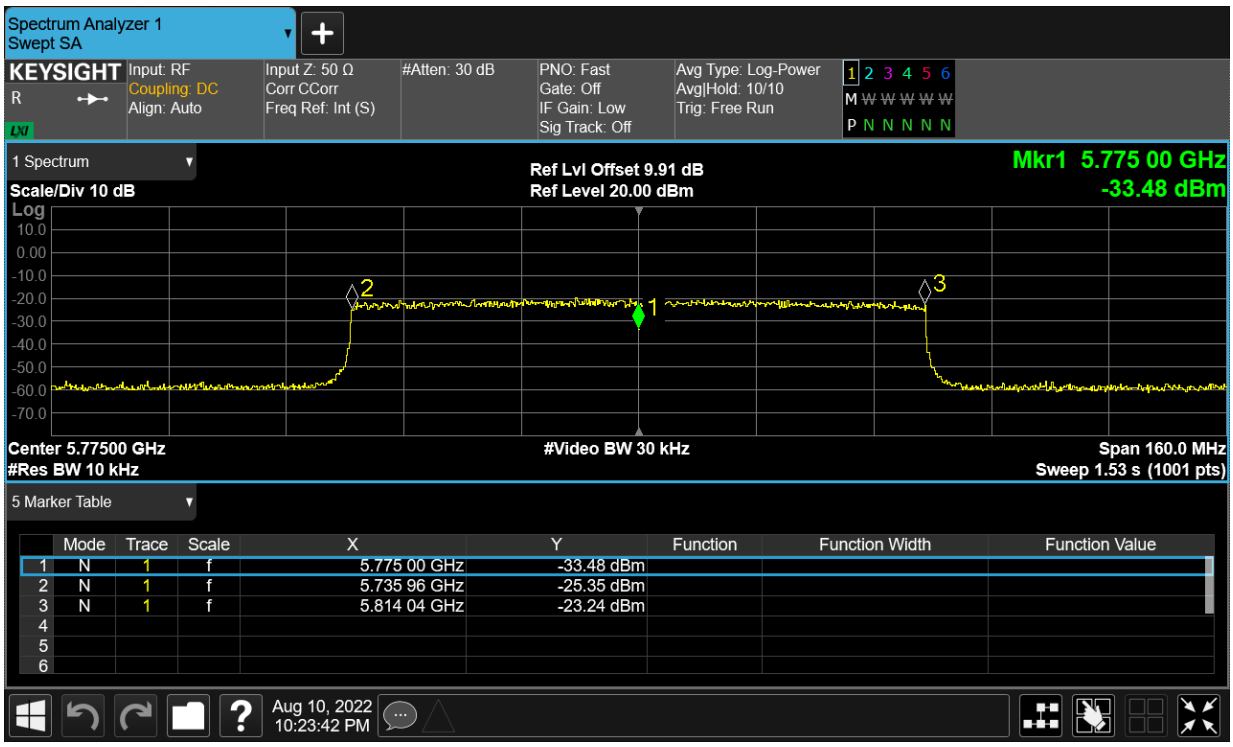
Freq. Stability NVHT ax80 5775MHz Sum



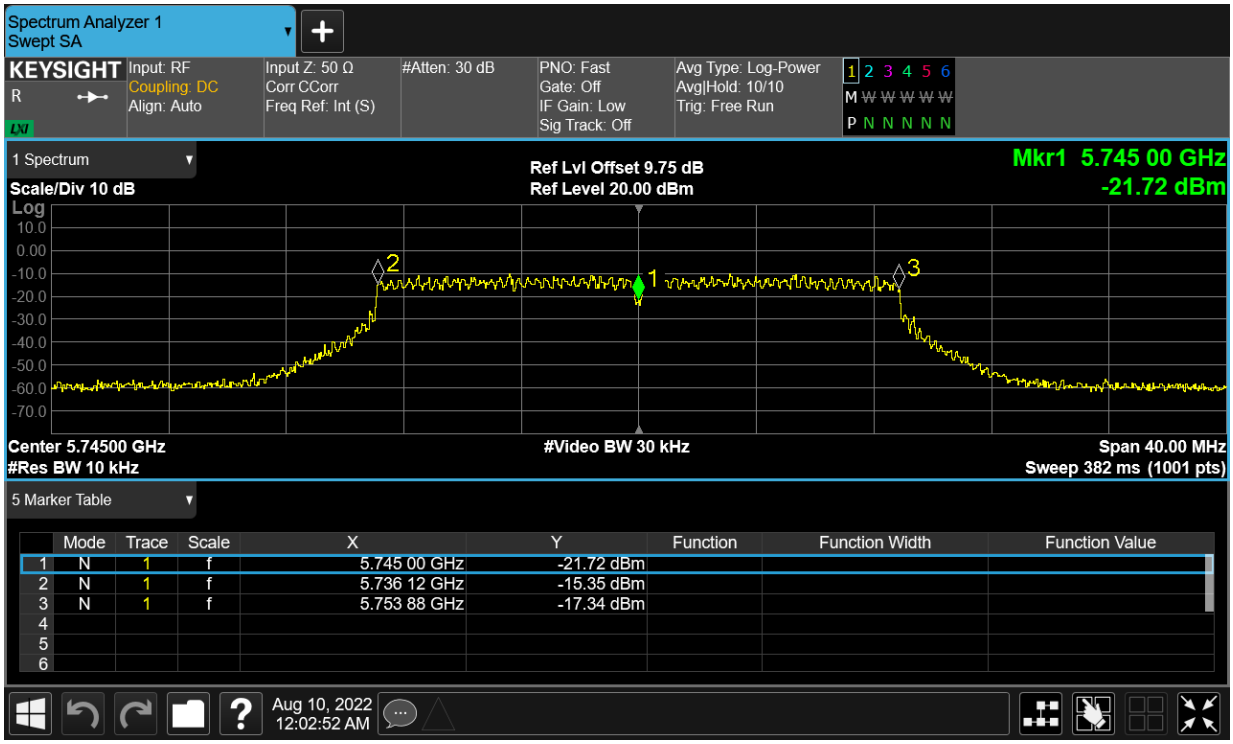
Freq. Stability NVLT ax80 5775MHz Sum



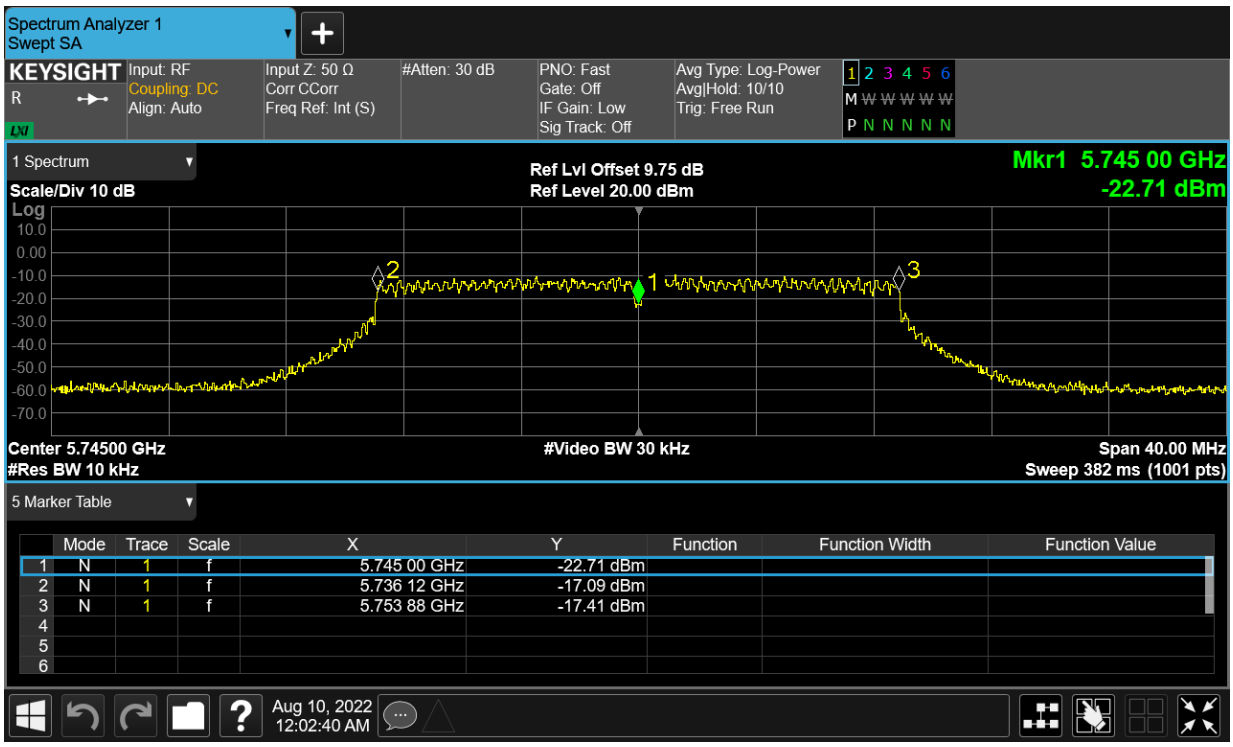
Freq. Stability NVNT ax80 5775MHz Sum



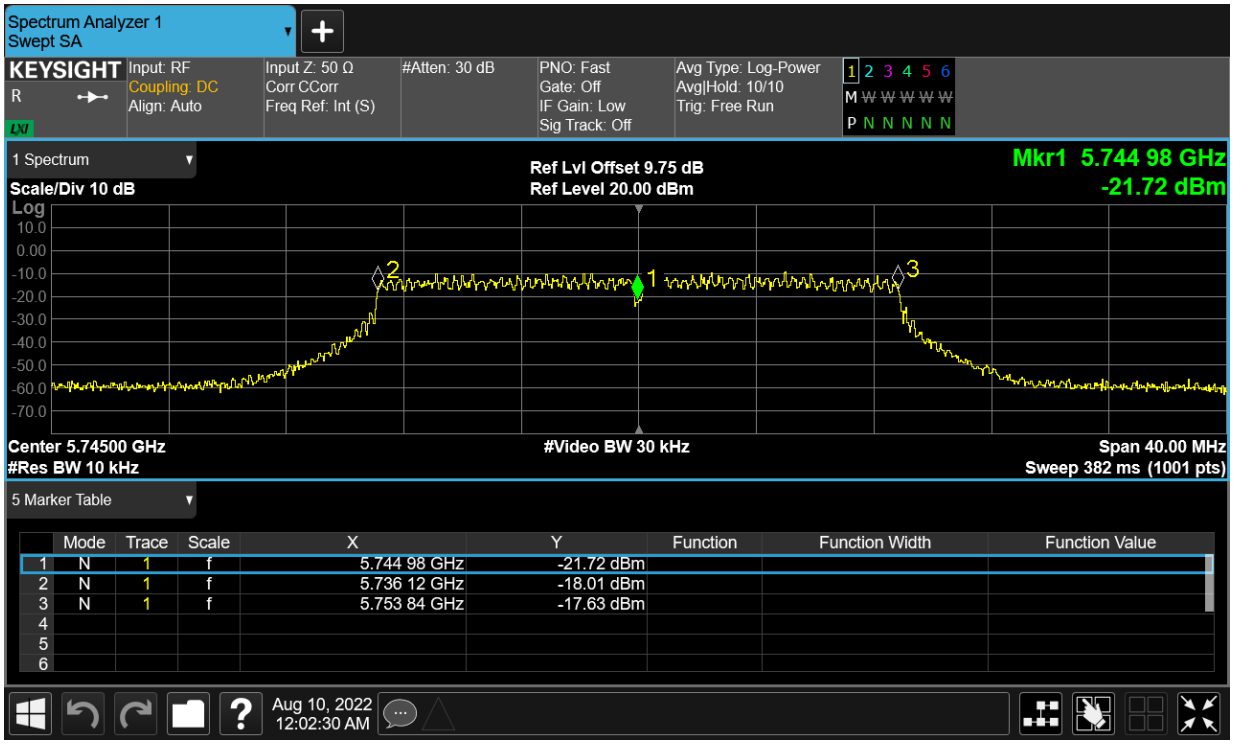
Freq. Stability HVNT n20 5745MHz Sum



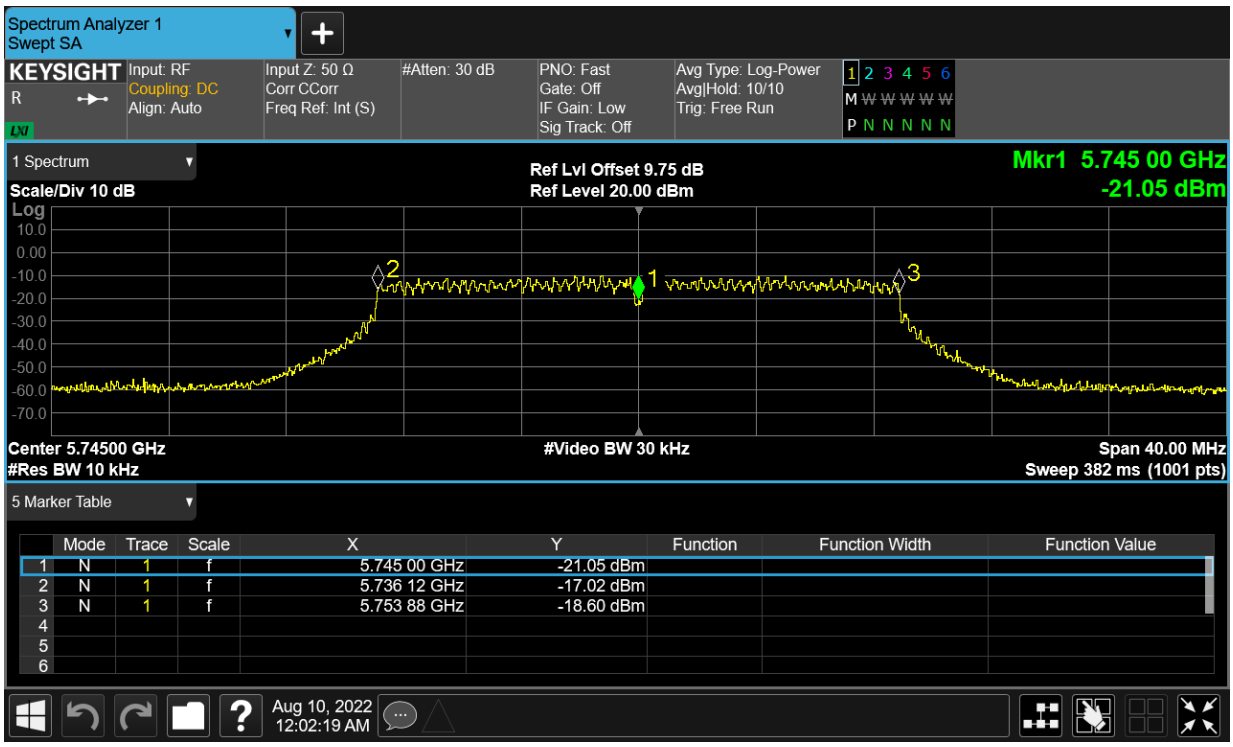
Freq. Stability LVNT n20 5745MHz Sum



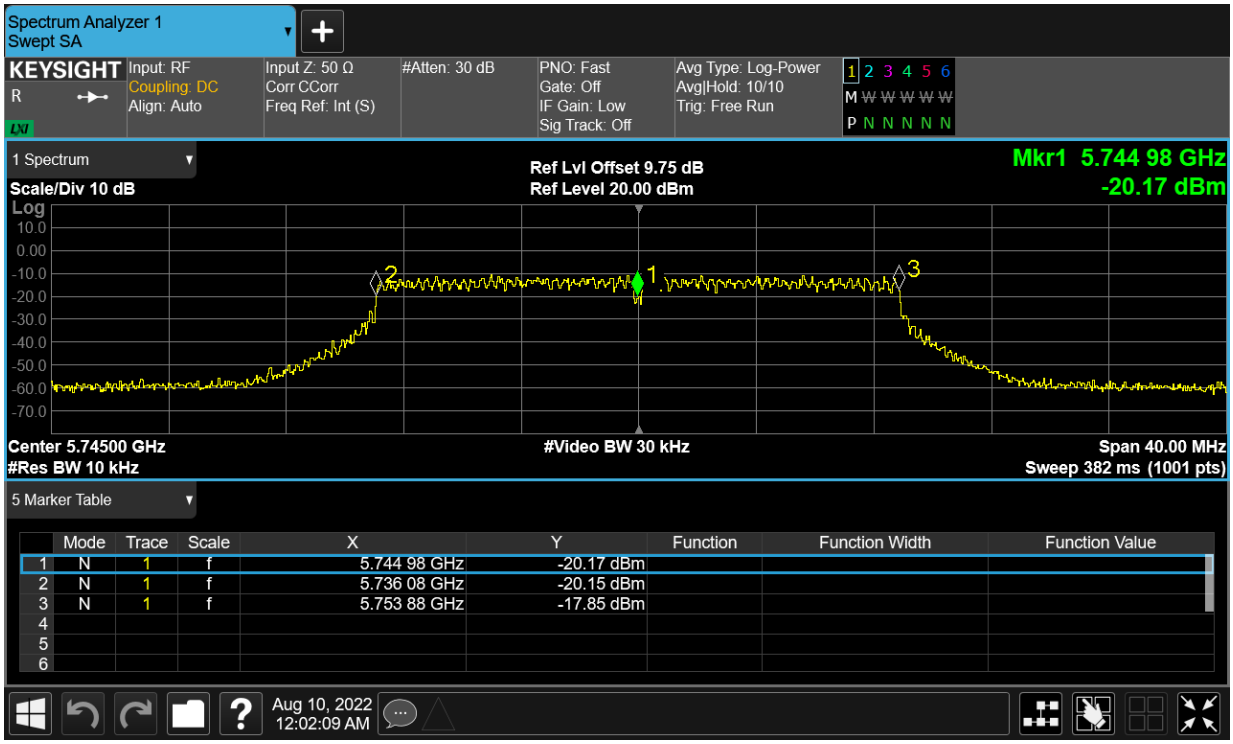
Freq. Stability NVHT n20 5745MHz Sum



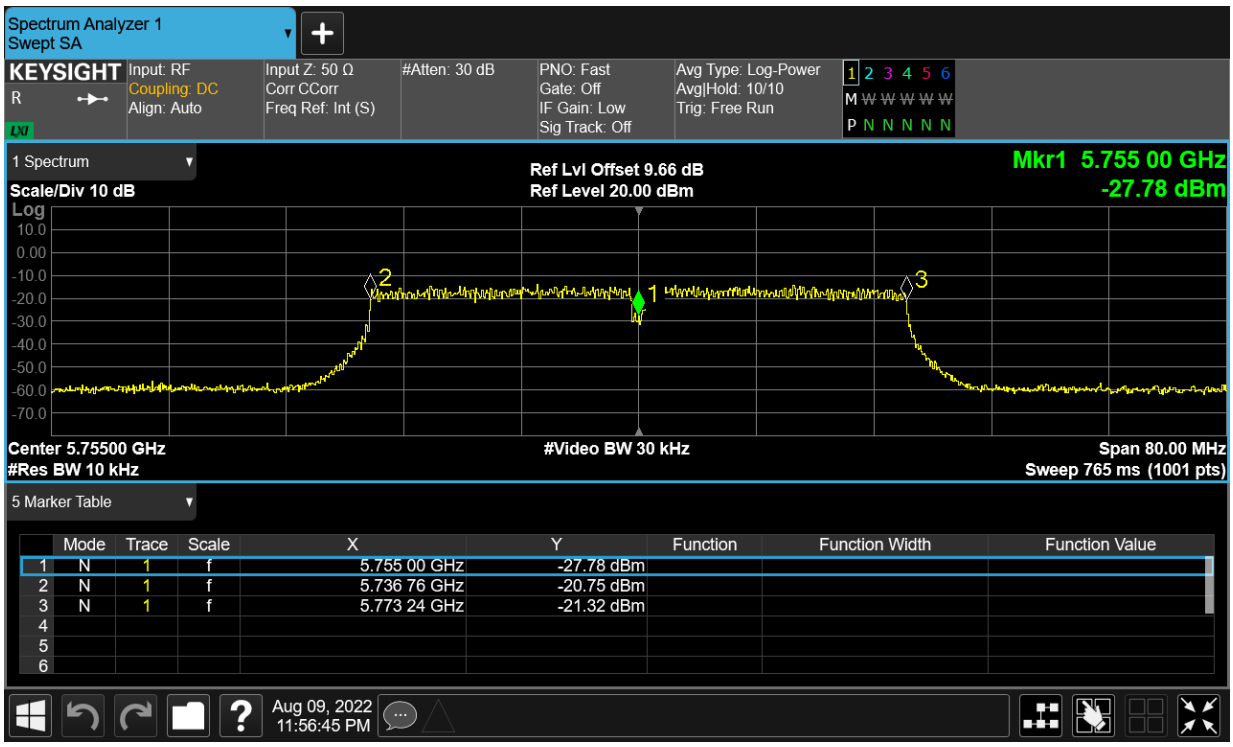
Freq. Stability NVLT n20 5745MHz Sum



Freq. Stability NVNT n20 5745MHz Sum

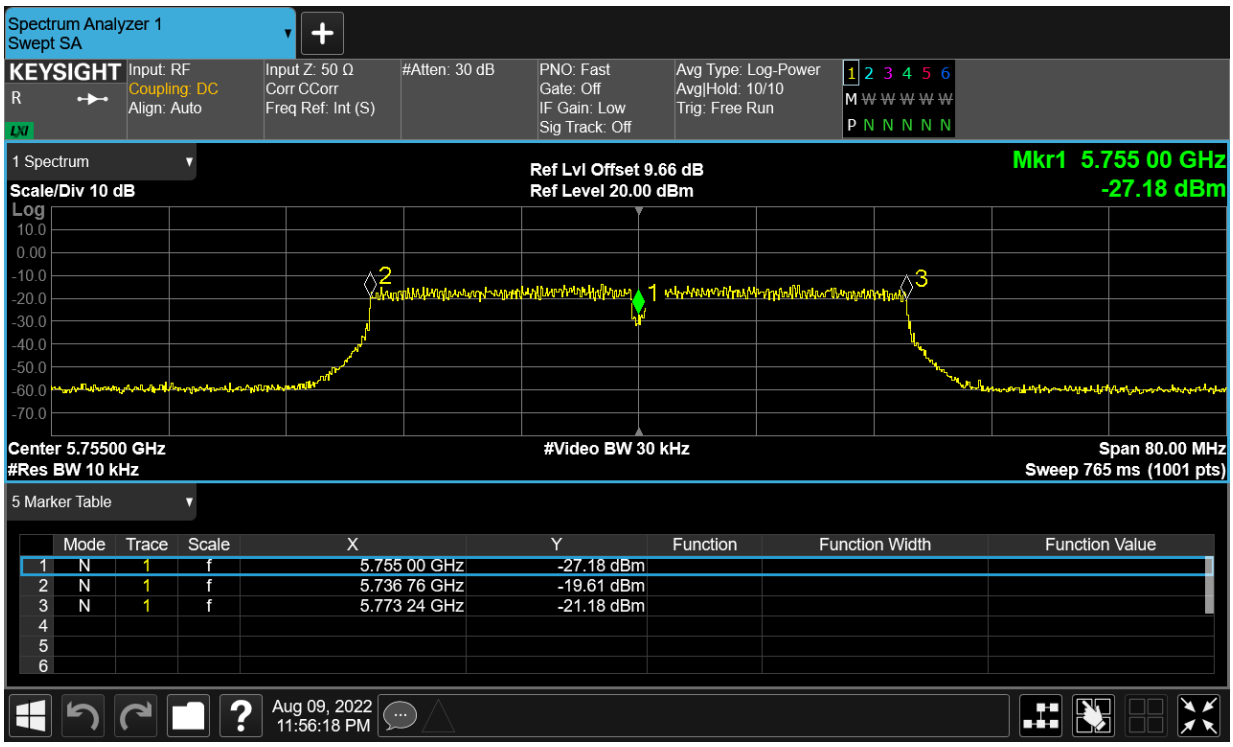


Freq. Stability HVNT n40 5755MHz Sum



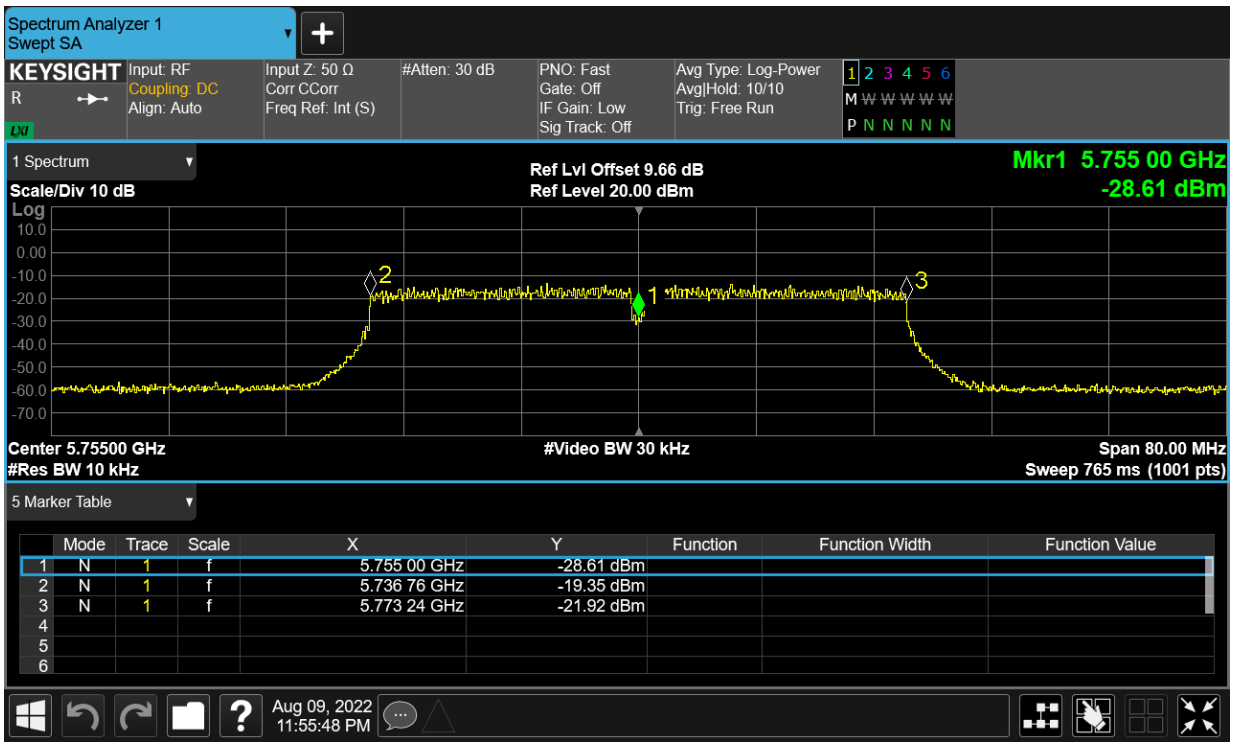
Freq. Stability LVNT n40 5755MHz Sum

Freq. Stability NVHT n40 5755MHz Sum



Freq. Stability NVLT n40 5755MHz Sum

Freq. Stability NVNT n40 5755MHz Sum

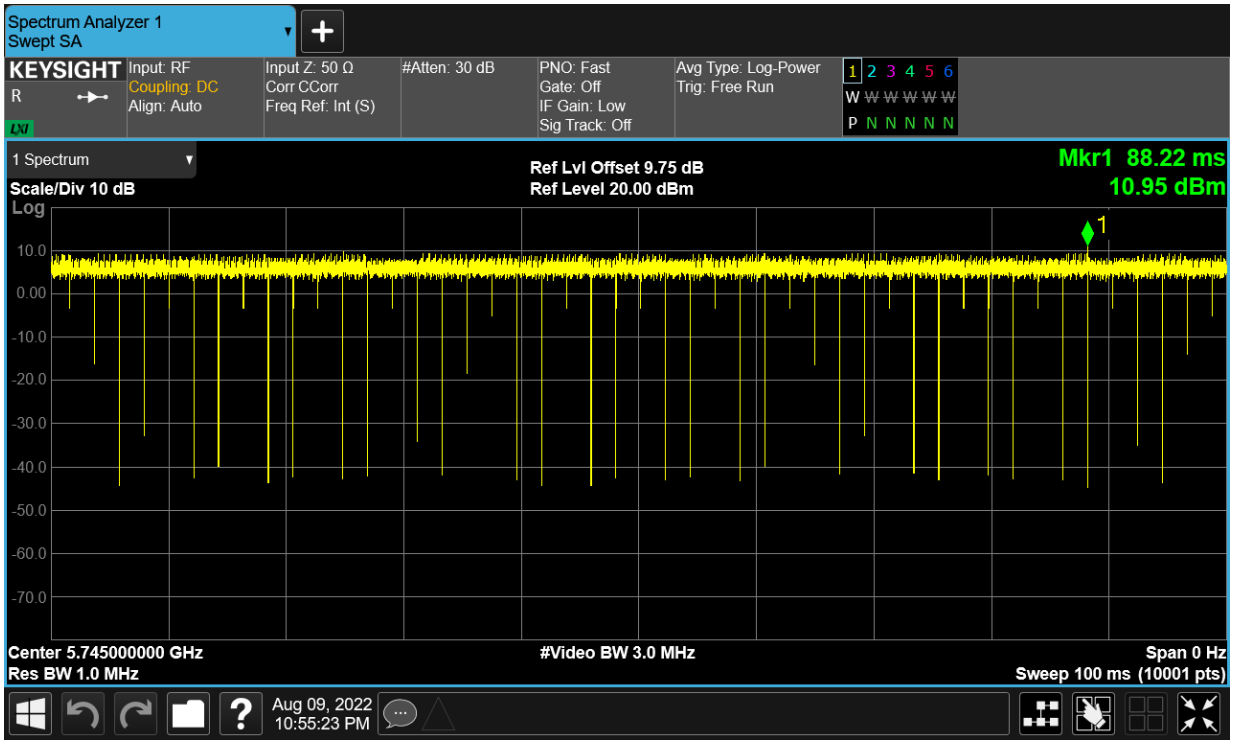


Duty Cycle

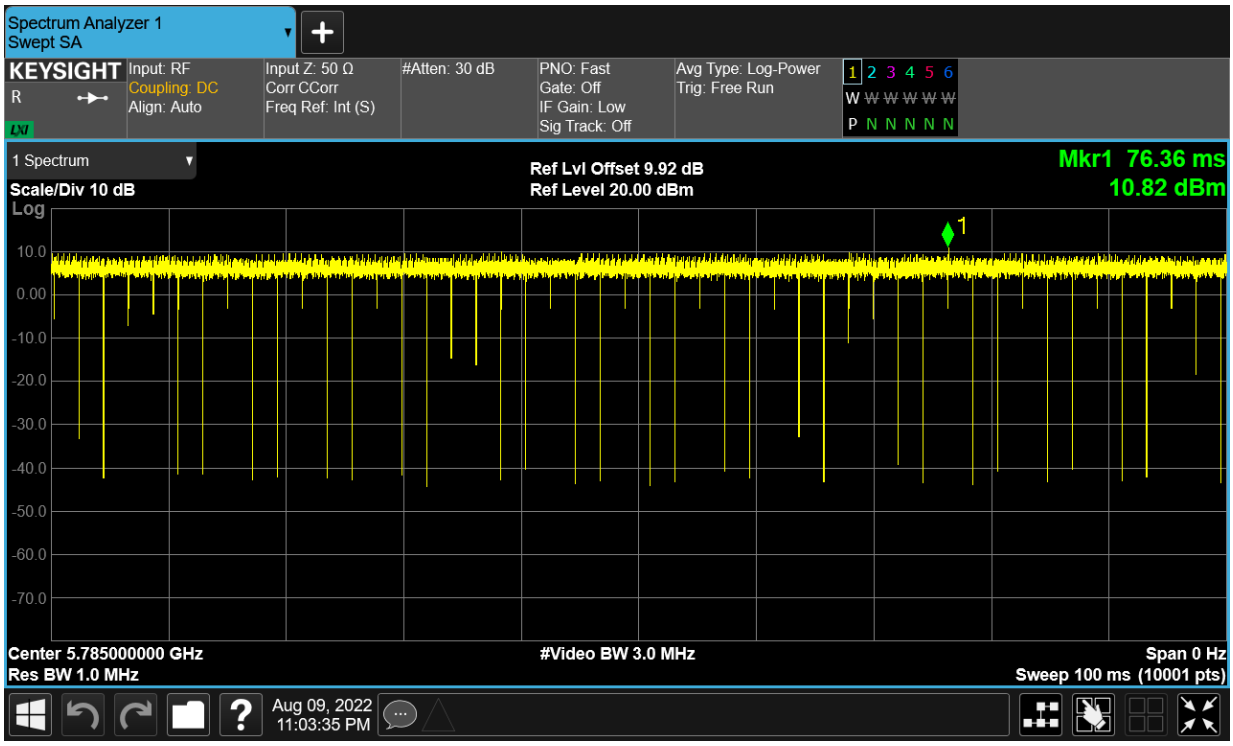
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	99.78	0.01
NVNT	a	5785	Ant1	99.74	0.01
NVNT	a	5825	Ant1	99.76	0.01
NVNT	a	5745	Ant2	99.8	0.01
NVNT	a	5785	Ant2	99.78	0.01
NVNT	a	5825	Ant2	99.8	0.01
NVNT	ac20	5745	Sum	99.91	0
NVNT	ac20	5785	Sum	99.93	0
NVNT	ac20	5825	Sum	99.91	0
NVNT	ac40	5755	Sum	99.91	0
NVNT	ac40	5795	Sum	99.9	0
NVNT	ac80	5775	Sum	99.89	0
NVNT	ax20	5745	Sum	99.91	0
NVNT	ax20	5785	Sum	99.91	0
NVNT	ax20	5825	Sum	99.93	0
NVNT	ax40	5755	Sum	99.89	0
NVNT	ax40	5795	Sum	99.91	0
NVNT	ax80	5775	Sum	99.91	0
NVNT	n20	5745	Sum	99.88	0.01
NVNT	n20	5785	Sum	99.9	0
NVNT	n20	5825	Sum	99.92	0
NVNT	n40	5755	Sum	99.9	0
NVNT	n40	5795	Sum	99.91	0

Test Graphs

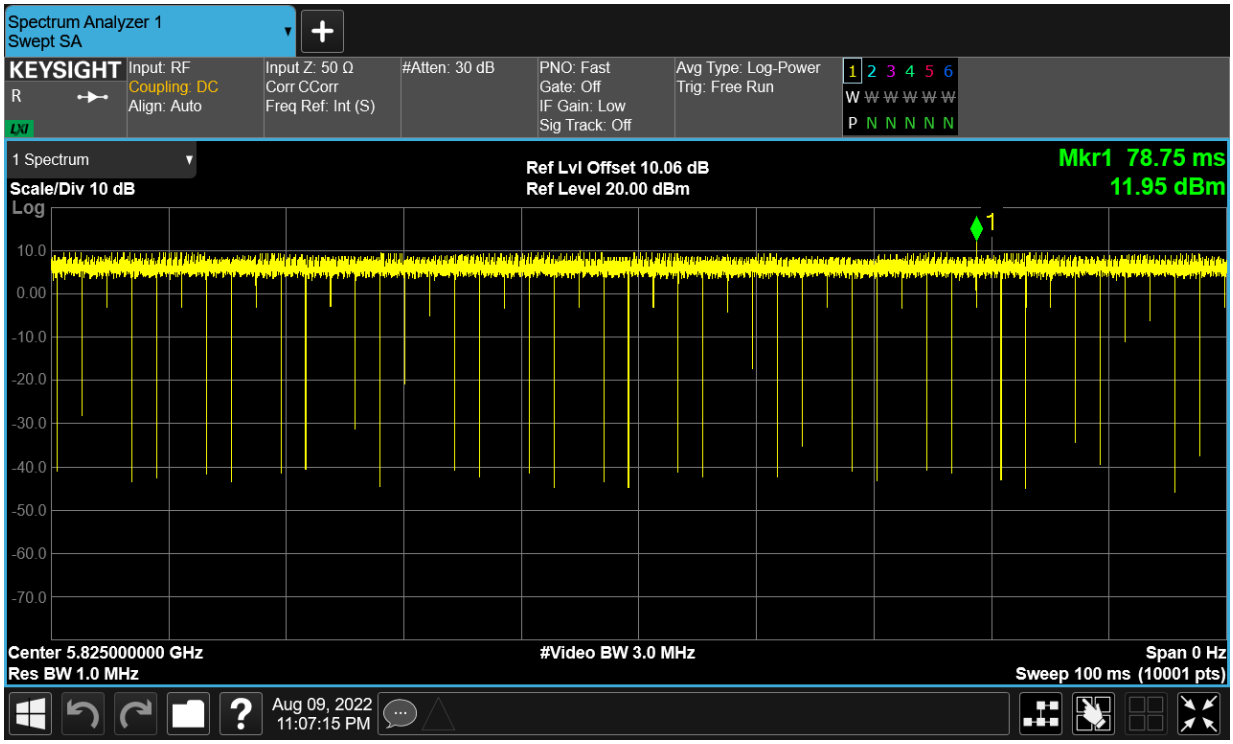
Duty Cycle NVNT a 5745MHz Ant1



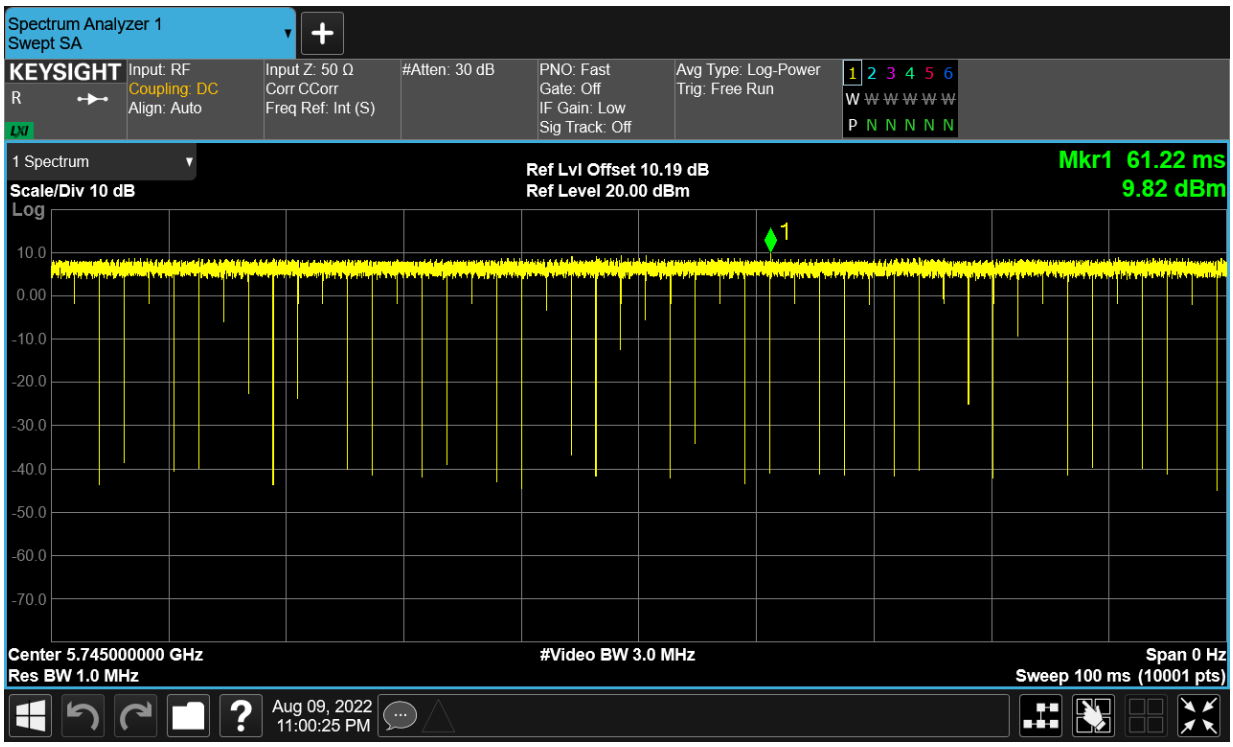
Duty Cycle NVNT a 5785MHz Ant1



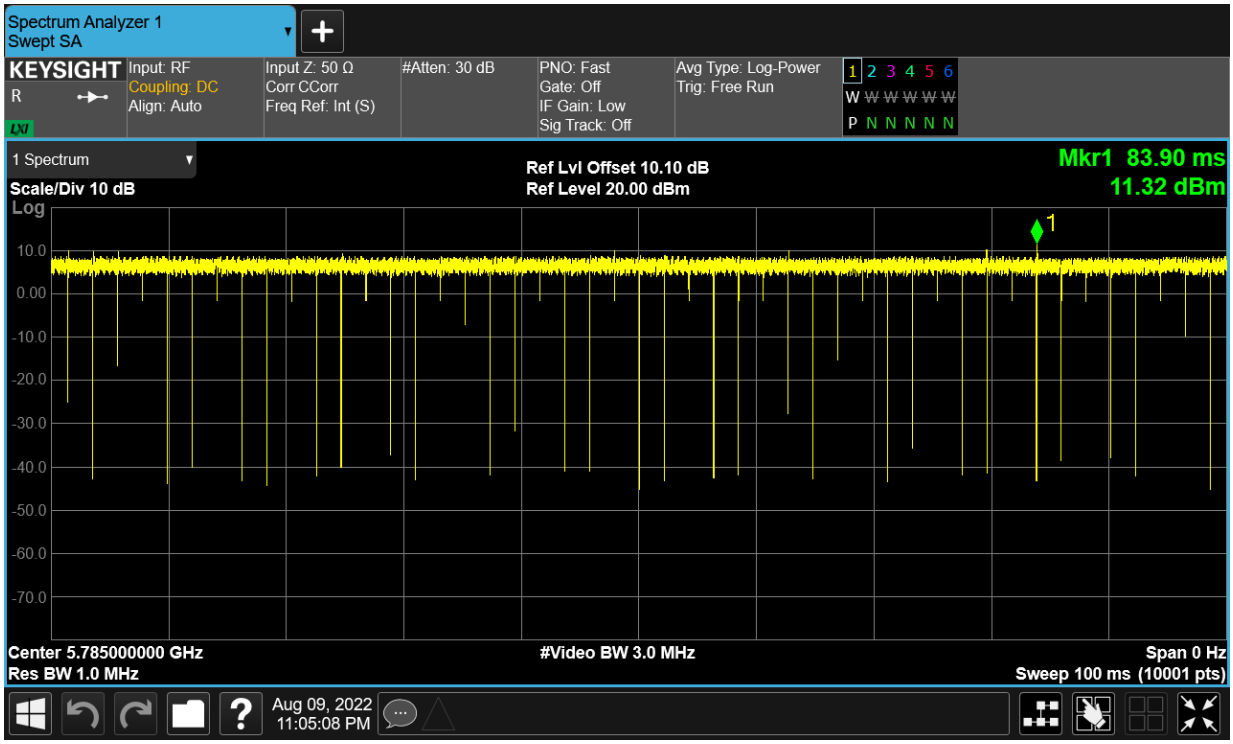
Duty Cycle NVNT a 5825MHz Ant1



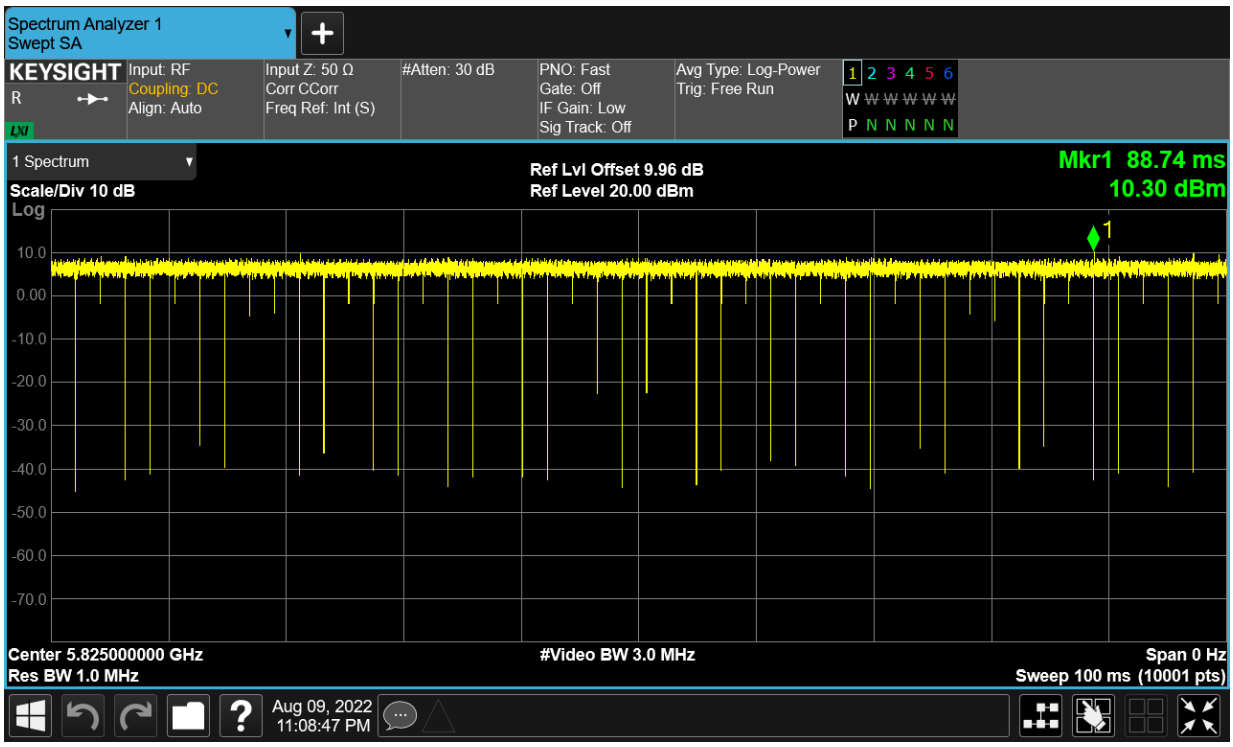
Duty Cycle NVNT a 5745MHz Ant2



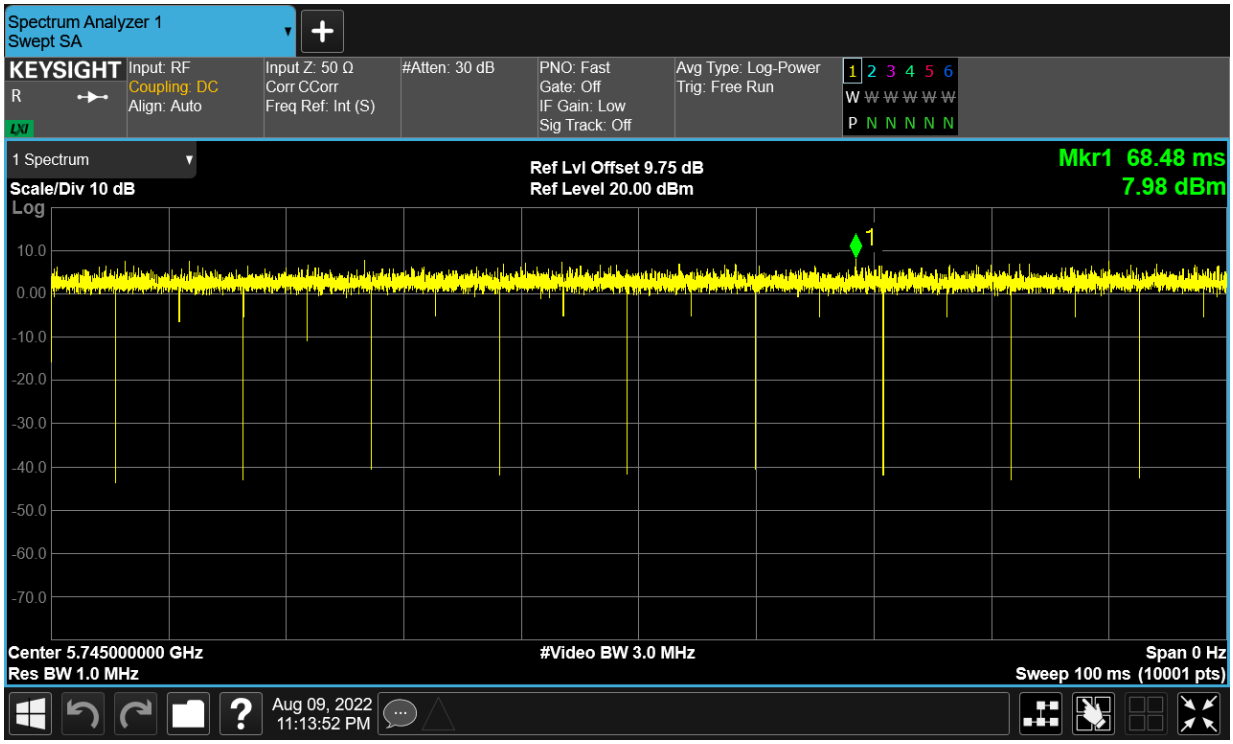
Duty Cycle NVNT a 5785MHz Ant2



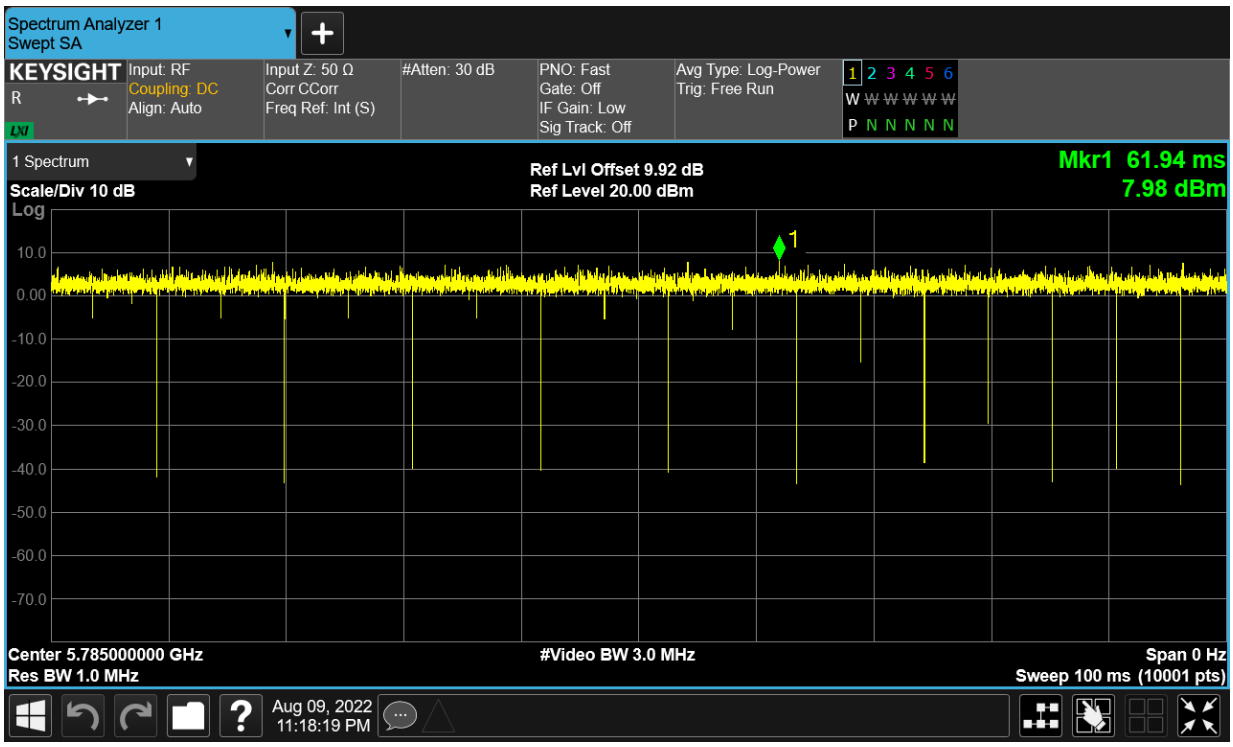
Duty Cycle NVNT a 5825MHz Ant2



Duty Cycle NVNT ac20 5745MHz Sum

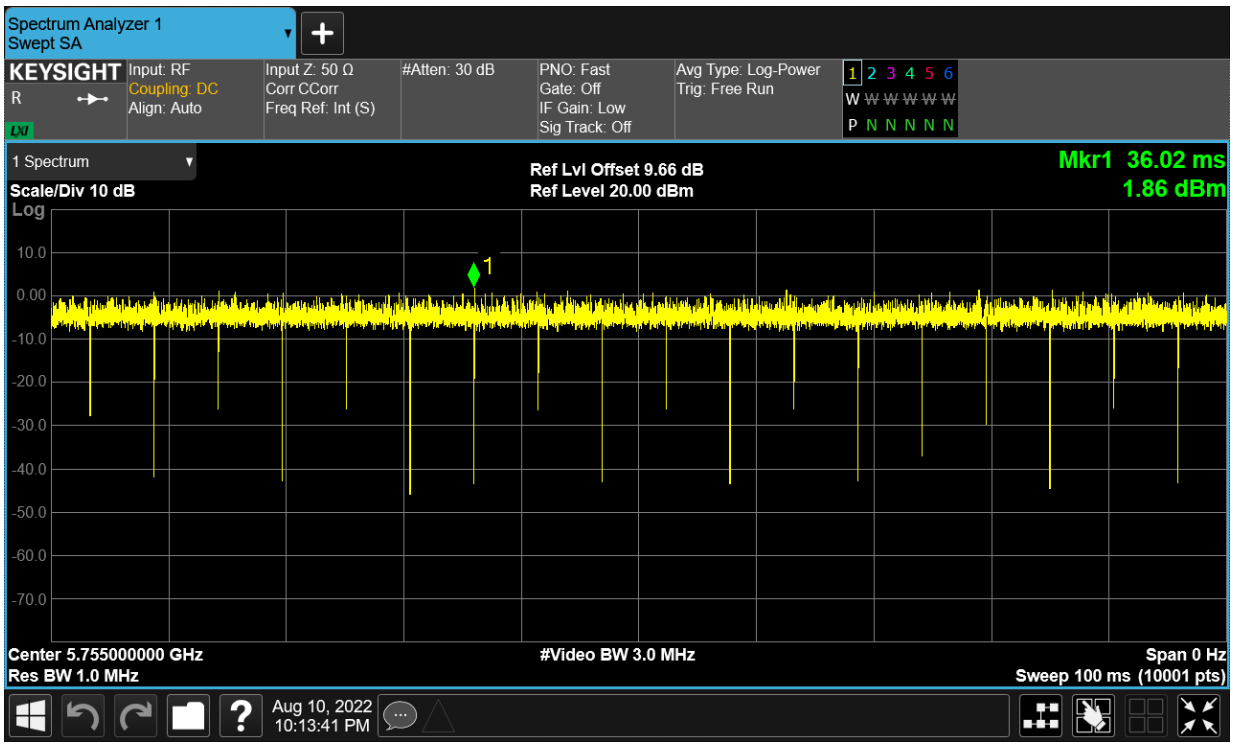


Duty Cycle NVNT ac20 5785MHz Sum



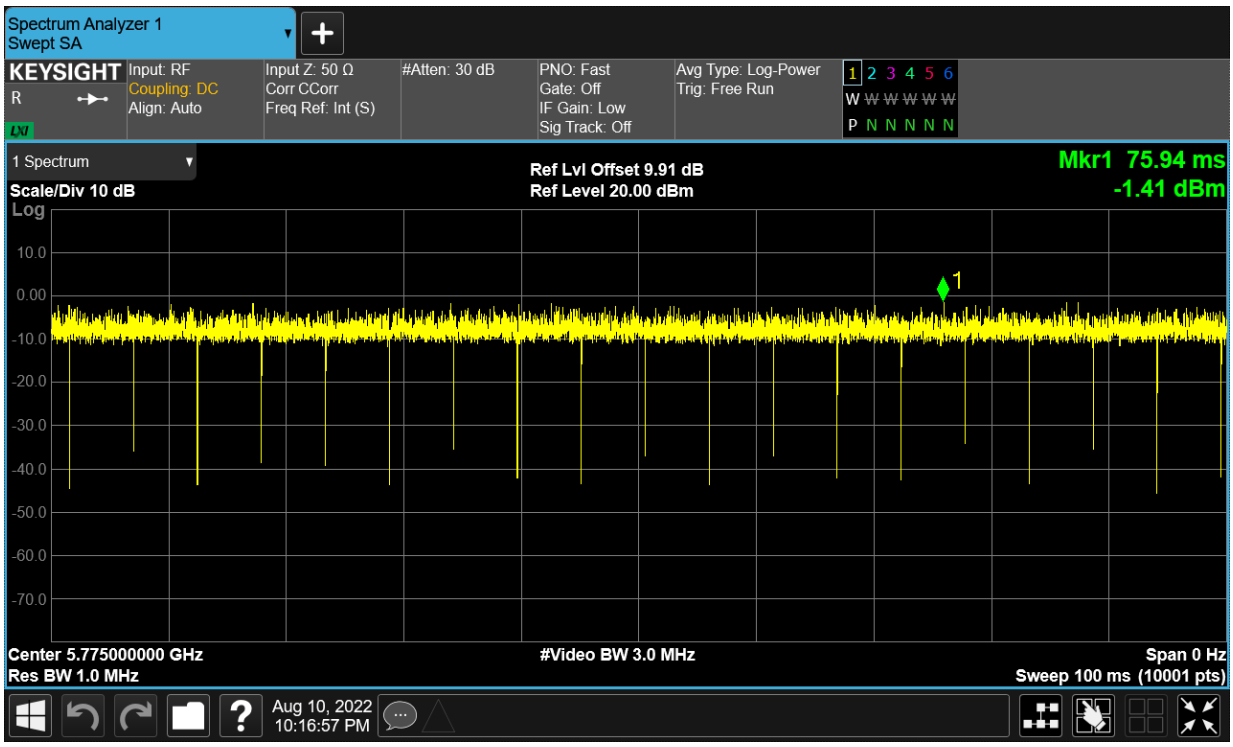
Duty Cycle NVNT ac20 5825MHz Sum

Duty Cycle NVNT ac40 5755MHz Sum

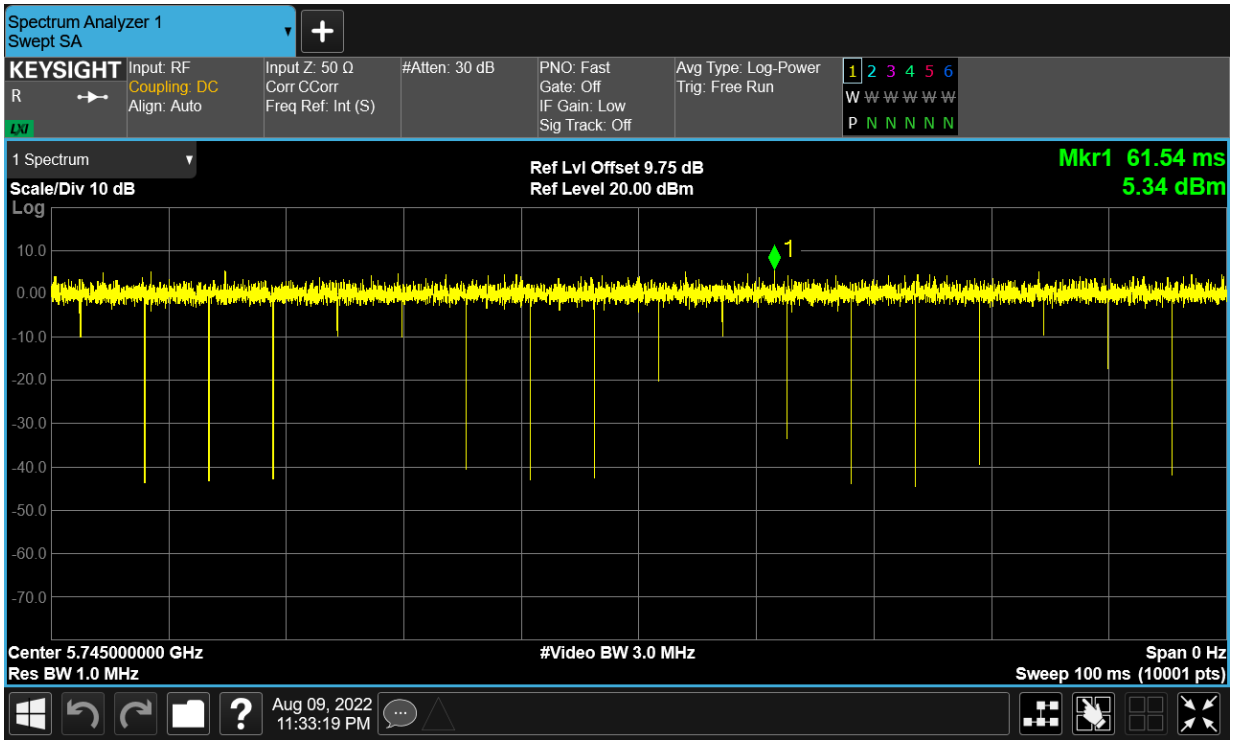


Duty Cycle NVNT ac40 5795MHz Sum

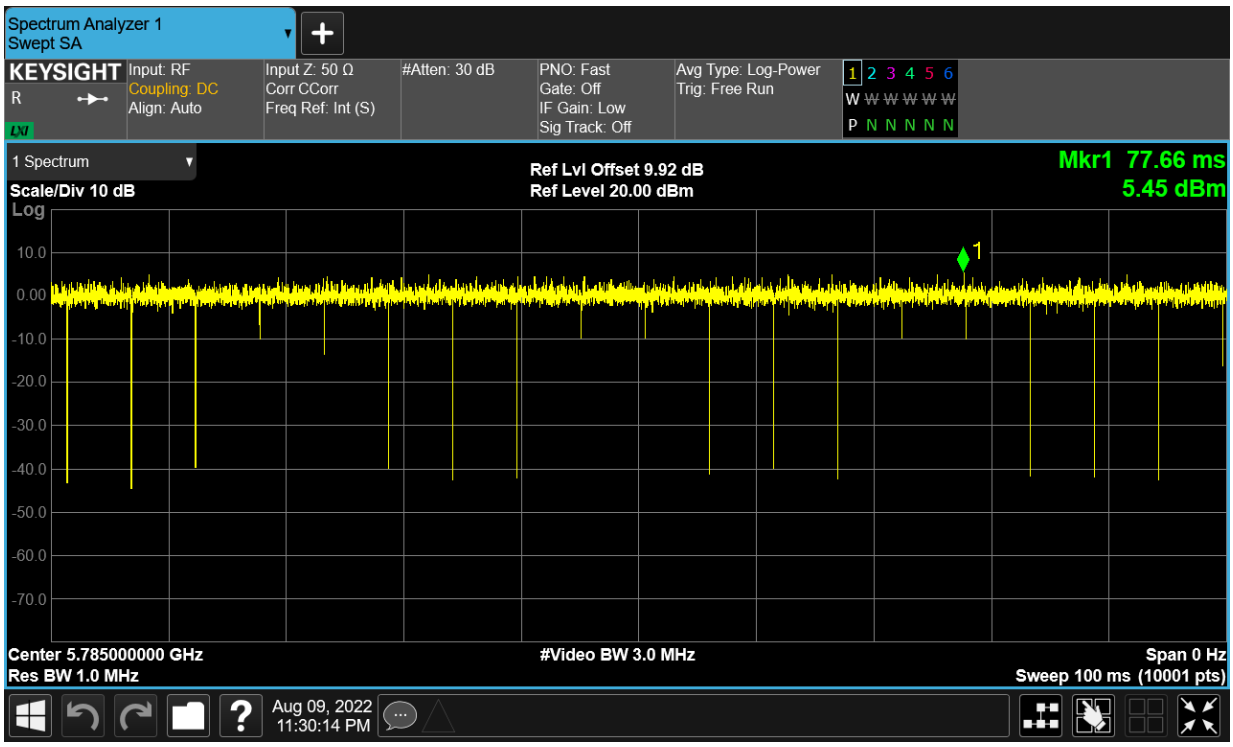
Duty Cycle NVNT ac80 5775MHz Sum



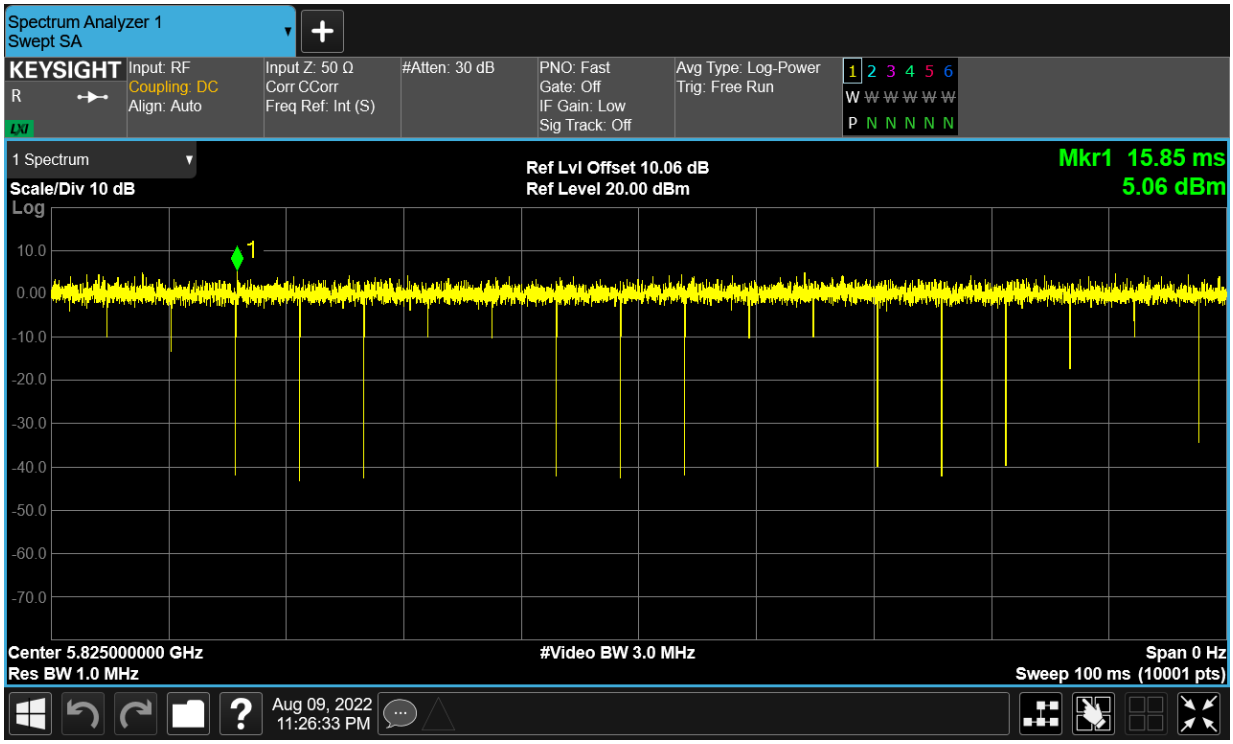
Duty Cycle NVNT ax20 5745MHz Sum



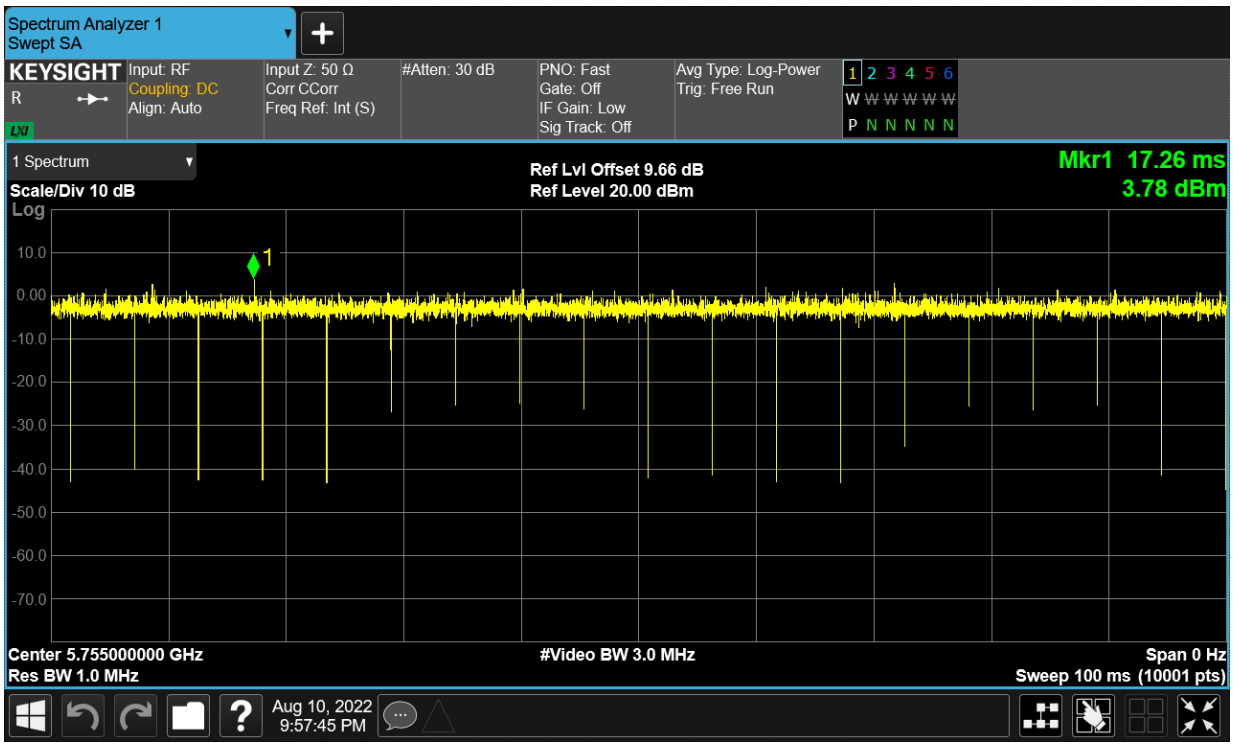
Duty Cycle NVNT ax20 5785MHz Sum



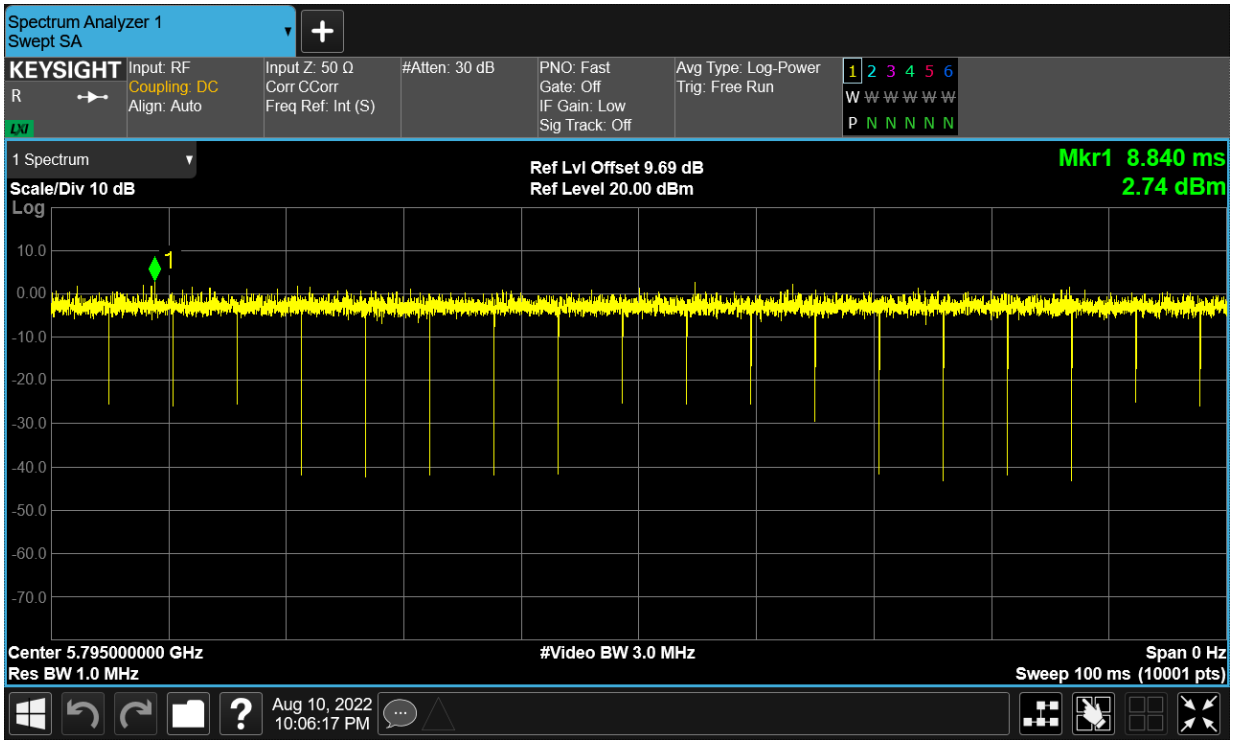
Duty Cycle NVNT ax20 5825MHz Sum



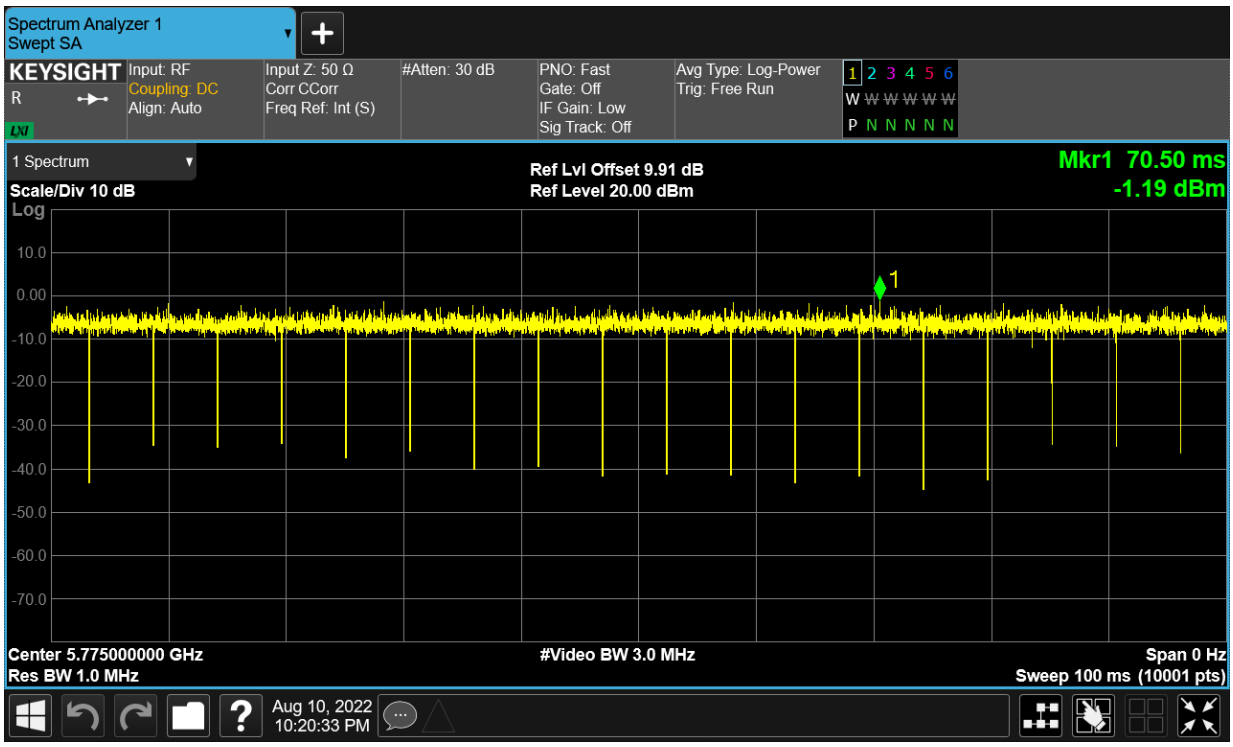
Duty Cycle NVNT ax40 5755MHz Sum



Duty Cycle NVNT ax40 5795MHz Sum

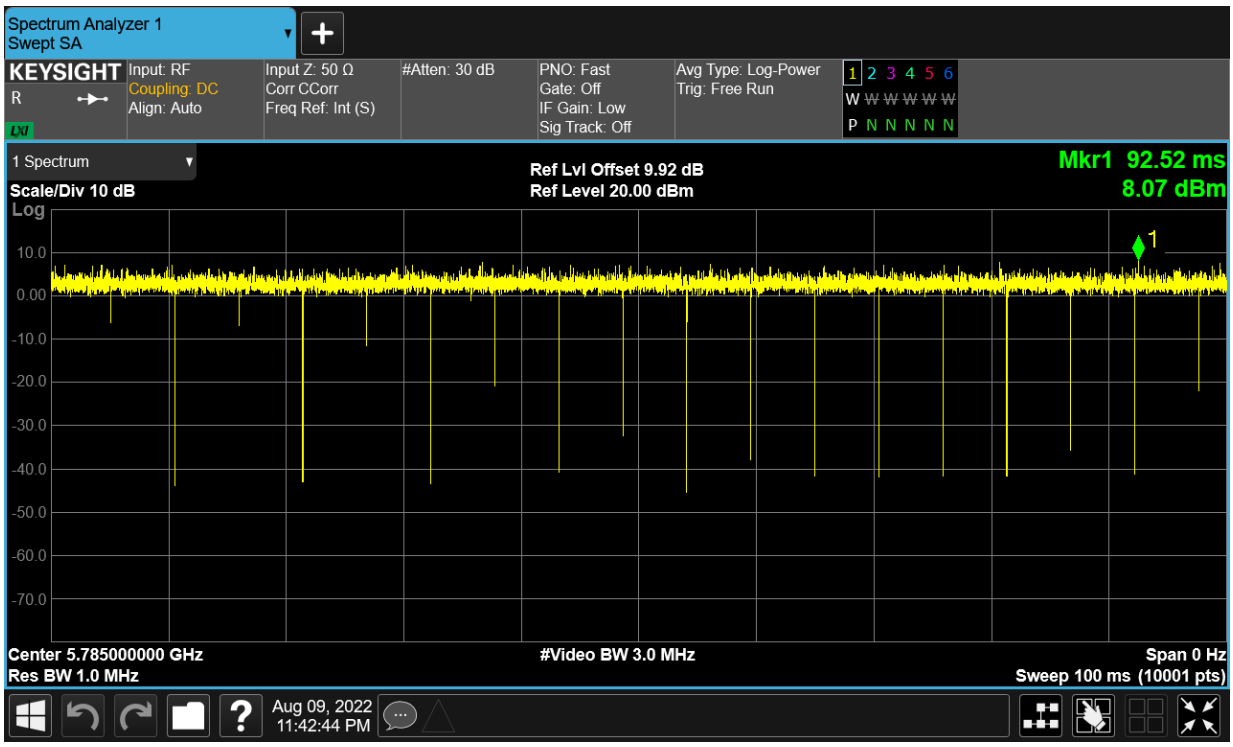


Duty Cycle NVNT ax80 5775MHz Sum



Duty Cycle NVNT n20 5745MHz Sum

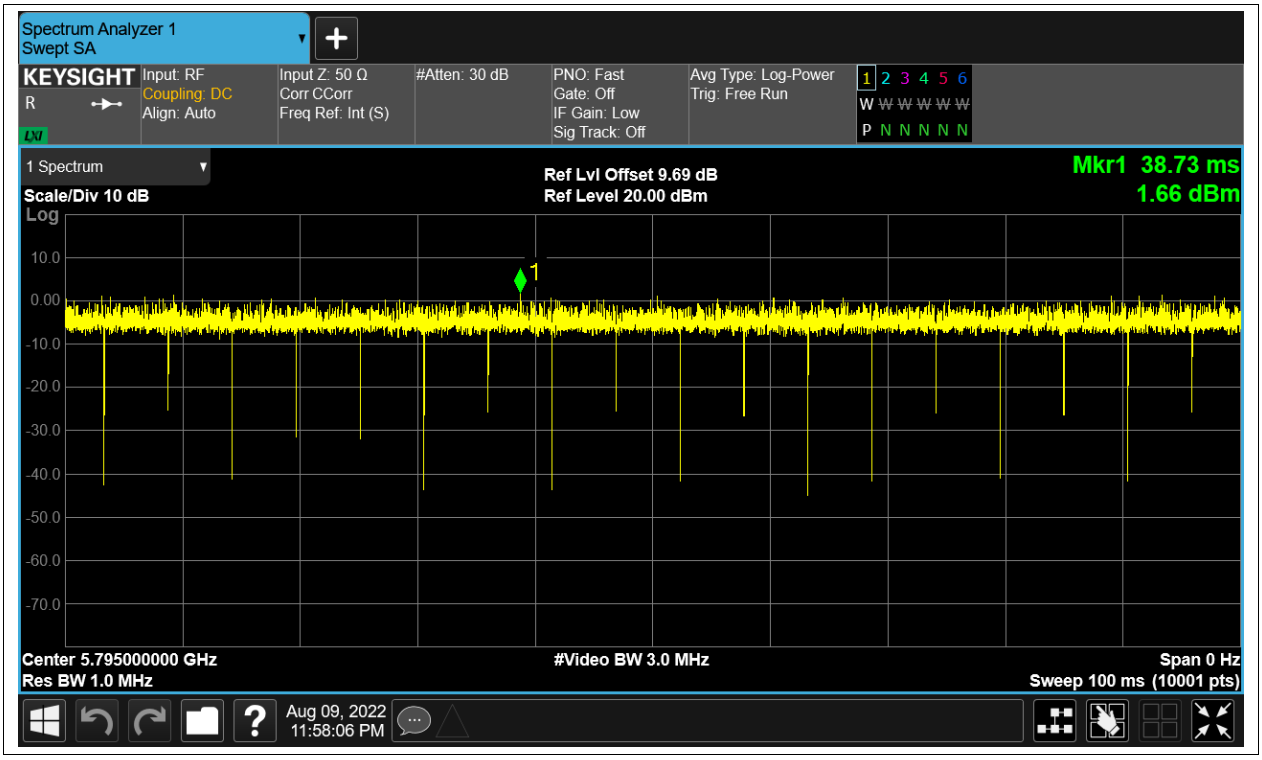
Duty Cycle NVNT n20 5785MHz Sum



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 9.69 dB
Ref Level 20.00 dBm
Mkr1 38.73 ms
1.66 dBm
Center 5.795000000 GHz
Res BW 1.0 MHz
#Video BW 3.0 MHz
Span 0 Hz
Sweep 100 ms (10001 pts)
Aug 09, 2022
11:58:06 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	13.73	0.01	13.74	30	Pass
NVNT	a	5785	Ant1	14.16	0.01	14.17	30	Pass
NVNT	a	5825	Ant1	14.03	0.01	14.04	30	Pass
NVNT	a	5745	Ant2	13.74	0.01	13.75	30	Pass
NVNT	a	5785	Ant2	13.96	0.01	13.97	30	Pass
NVNT	a	5825	Ant2	14.18	0.01	14.19	30	Pass
NVNT	ac20	5745	Ant1	10.79	0	10.79	30	Pass
NVNT	ac20	5745	Ant2	10.87	0	10.87	30	Pass
NVNT	ac20	5745	Sum	13.84	0	13.84	30	Pass
NVNT	ac20	5785	Ant1	11.23	0	11.23	30	Pass
NVNT	ac20	5785	Ant2	11.05	0	11.05	30	Pass
NVNT	ac20	5785	Sum	14.151	0	14.151	30	Pass
NVNT	ac20	5825	Ant1	11.08	0	11.08	30	Pass
NVNT	ac20	5825	Ant2	11.28	0	11.28	30	Pass
NVNT	ac20	5825	Sum	14.191	0	14.191	30	Pass
NVNT	ac40	5755	Ant1	9.89	0	9.89	30	Pass
NVNT	ac40	5755	Ant2	10.13	0	10.13	30	Pass
NVNT	ac40	5755	Sum	13.022	0	13.022	30	Pass
NVNT	ac40	5795	Ant1	10.18	0	10.18	30	Pass
NVNT	ac40	5795	Ant2	10.3	0	10.3	30	Pass
NVNT	ac40	5795	Sum	13.251	0	13.251	30	Pass
NVNT	ac80	5775	Ant1	9.93	0	9.93	30	Pass
NVNT	ac80	5775	Ant2	9.92	0	9.92	30	Pass
NVNT	ac80	5775	Sum	12.935	0	12.935	30	Pass
NVNT	ax20	5745	Ant1	7.9	0	7.9	30	Pass
NVNT	ax20	5745	Ant2	8.19	0	8.19	30	Pass
NVNT	ax20	5745	Sum	11.058	0	11.058	30	Pass
NVNT	ax20	5785	Ant1	8.2	0	8.2	30	Pass
NVNT	ax20	5785	Ant2	8.36	0	8.36	30	Pass
NVNT	ax20	5785	Sum	11.291	0	11.291	30	Pass
NVNT	ax20	5825	Ant1	8.06	0	8.06	30	Pass
NVNT	ax20	5825	Ant2	8.58	0	8.58	30	Pass
NVNT	ax20	5825	Sum	11.338	0	11.338	30	Pass
NVNT	ax40	5755	Ant1	8.81	0	8.81	30	Pass
NVNT	ax40	5755	Ant2	9.15	0	9.15	30	Pass
NVNT	ax40	5755	Sum	11.994	0	11.994	30	Pass
NVNT	ax40	5795	Ant1	9.15	0	9.15	30	Pass
NVNT	ax40	5795	Ant2	9.27	0	9.27	30	Pass
NVNT	ax40	5795	Sum	12.221	0	12.221	30	Pass
NVNT	ax80	5775	Ant1	8.06	0	8.06	30	Pass

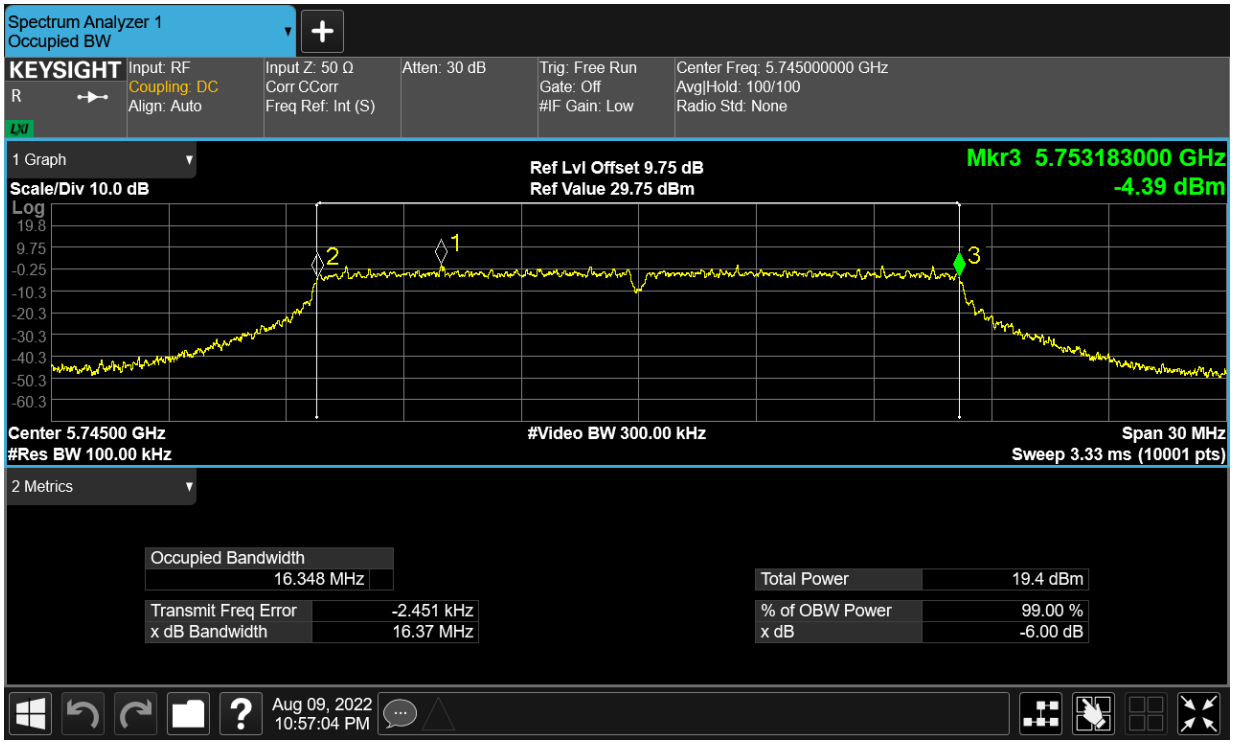
NVNT	ax80	5775	Ant2	8.35	0	8.35	30	Pass
NVNT	ax80	5775	Sum	11.218	0	11.218	30	Pass
NVNT	n20	5745	Ant1	10.79	0.01	10.8	39	Pass
NVNT	n20	5745	Ant2	10.86	0.01	10.87	39	Pass
NVNT	n20	5745	Sum	13.835	0.01	13.845	39	Pass
NVNT	n20	5785	Ant1	11.24	0	11.24	30	Pass
NVNT	n20	5785	Ant2	11.04	0	11.04	30	Pass
NVNT	n20	5785	Sum	14.151	0	14.151	30	Pass
NVNT	n20	5825	Ant1	11.11	0	11.11	30	Pass
NVNT	n20	5825	Ant2	11.33	0	11.33	30	Pass
NVNT	n20	5825	Sum	14.232	0	14.232	30	Pass
NVNT	n40	5755	Ant1	9.84	0	9.84	30	Pass
NVNT	n40	5755	Ant2	10.13	0	10.13	30	Pass
NVNT	n40	5755	Sum	12.998	0	12.998	30	Pass
NVNT	n40	5795	Ant1	10.21	0	10.21	30	Pass
NVNT	n40	5795	Ant2	10.28	0	10.28	30	Pass
NVNT	n40	5795	Sum	13.255	0	13.255	30	Pass

-6dB Bandwidth

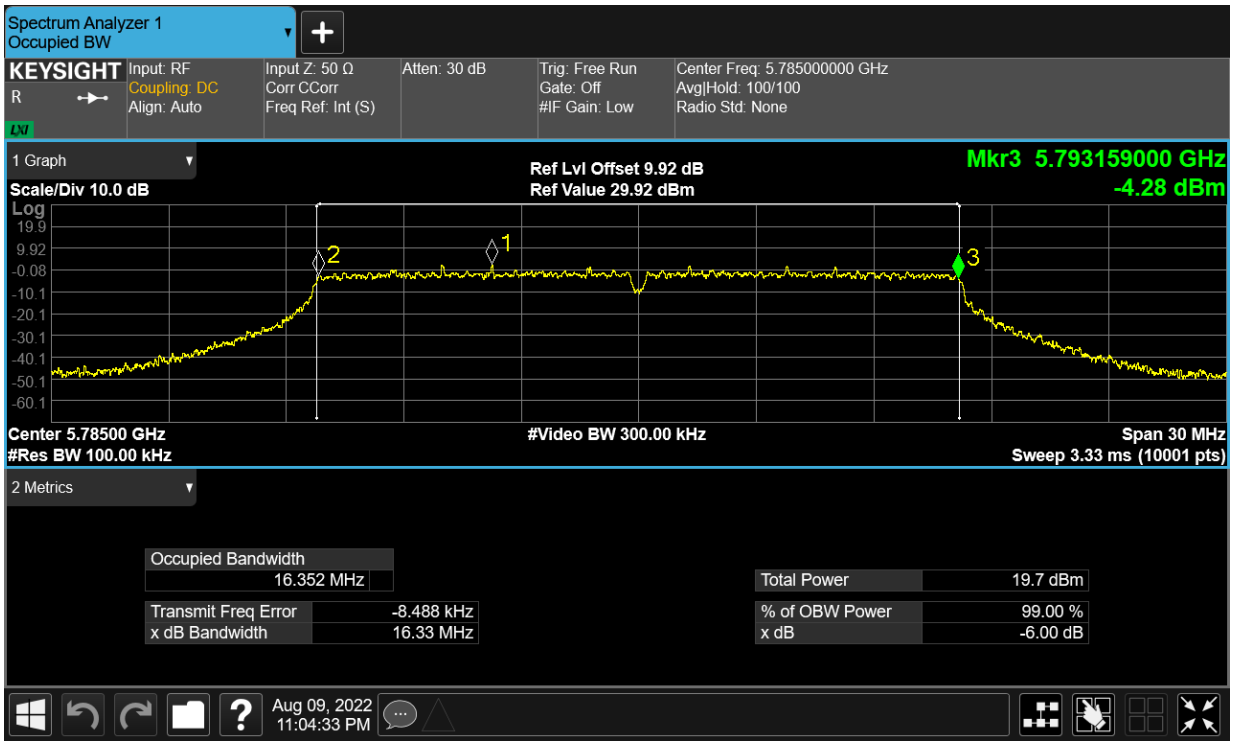
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	a	5745	Ant1	16.371	0.5	Pass
NVNT	a	5785	Ant1	16.335	0.5	Pass
NVNT	a	5825	Ant1	16.359	0.5	Pass
NVNT	a	5745	Ant2	16.306	0.5	Pass
NVNT	a	5785	Ant2	16.308	0.5	Pass
NVNT	a	5825	Ant2	16.339	0.5	Pass
NVNT	ac20	5745	Ant1	17.555	0.5	Pass
NVNT	ac20	5745	Ant2	17.568	0.5	Pass
NVNT	ac20	5785	Ant1	17.556	0.5	Pass
NVNT	ac20	5785	Ant2	17.537	0.5	Pass
NVNT	ac20	5825	Ant1	17.576	0.5	Pass
NVNT	ac20	5825	Ant2	17.578	0.5	Pass
NVNT	ac40	5755	Ant1	36.05	0.5	Pass
NVNT	ac40	5755	Ant2	36.028	0.5	Pass
NVNT	ac40	5795	Ant1	36.298	0.5	Pass
NVNT	ac40	5795	Ant2	35.626	0.5	Pass
NVNT	ac80	5775	Ant1	75.902	0.5	Pass
NVNT	ac80	5775	Ant2	75.738	0.5	Pass
NVNT	ax20	5745	Ant1	18.823	0.5	Pass
NVNT	ax20	5745	Ant2	18.941	0.5	Pass
NVNT	ax20	5785	Ant1	18.82	0.5	Pass
NVNT	ax20	5785	Ant2	18.716	0.5	Pass
NVNT	ax20	5825	Ant1	18.975	0.5	Pass
NVNT	ax20	5825	Ant2	18.816	0.5	Pass
NVNT	ax40	5755	Ant1	37.395	0.5	Pass
NVNT	ax40	5755	Ant2	37.847	0.5	Pass
NVNT	ax40	5795	Ant1	37.749	0.5	Pass
NVNT	ax40	5795	Ant2	37.829	0.5	Pass
NVNT	ax80	5775	Ant1	77.283	0.5	Pass
NVNT	ax80	5775	Ant2	77.833	0.5	Pass
NVNT	n20	5745	Ant1	17.544	0.5	Pass
NVNT	n20	5745	Ant2	17.61	0.5	Pass
NVNT	n20	5785	Ant1	17.602	0.5	Pass
NVNT	n20	5785	Ant2	17.567	0.5	Pass
NVNT	n20	5825	Ant1	17.55	0.5	Pass
NVNT	n20	5825	Ant2	17.545	0.5	Pass
NVNT	n40	5755	Ant1	36.281	0.5	Pass
NVNT	n40	5755	Ant2	35.978	0.5	Pass
NVNT	n40	5795	Ant1	36.296	0.5	Pass
NVNT	n40	5795	Ant2	36.11	0.5	Pass

Test Graphs

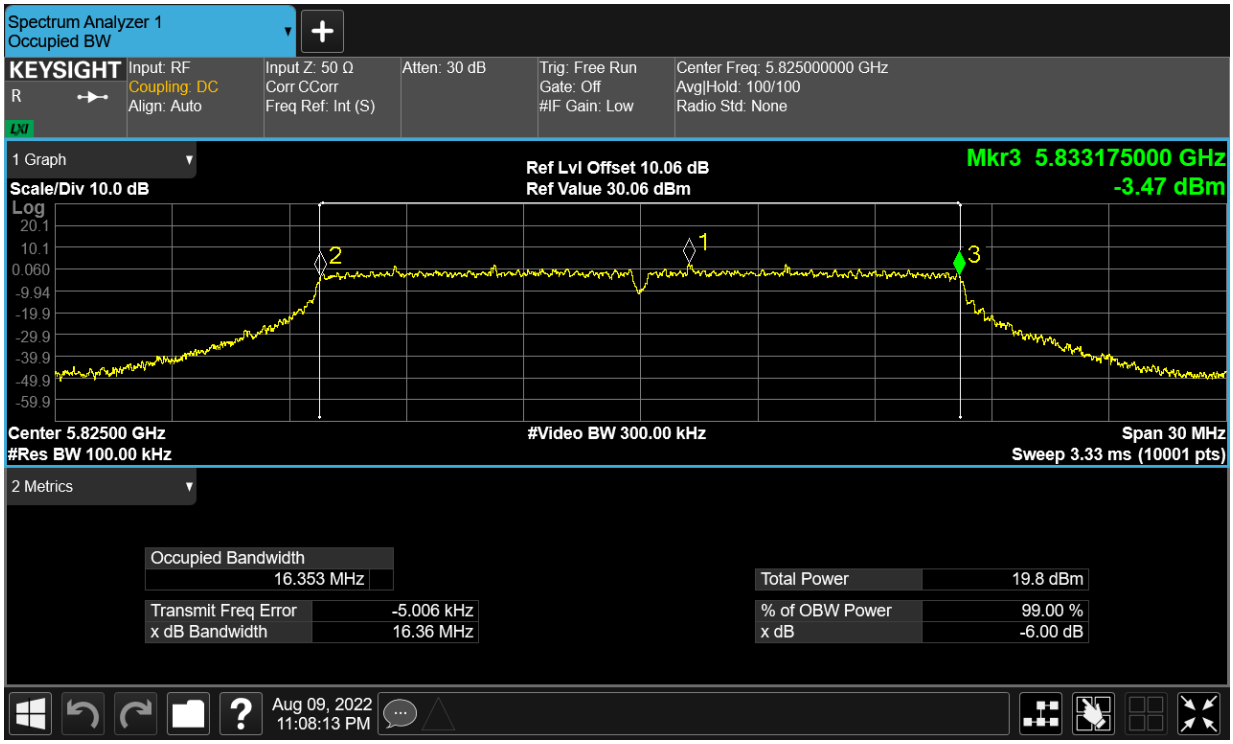
-6dB Bandwidth NVNT a 5745MHz Ant1



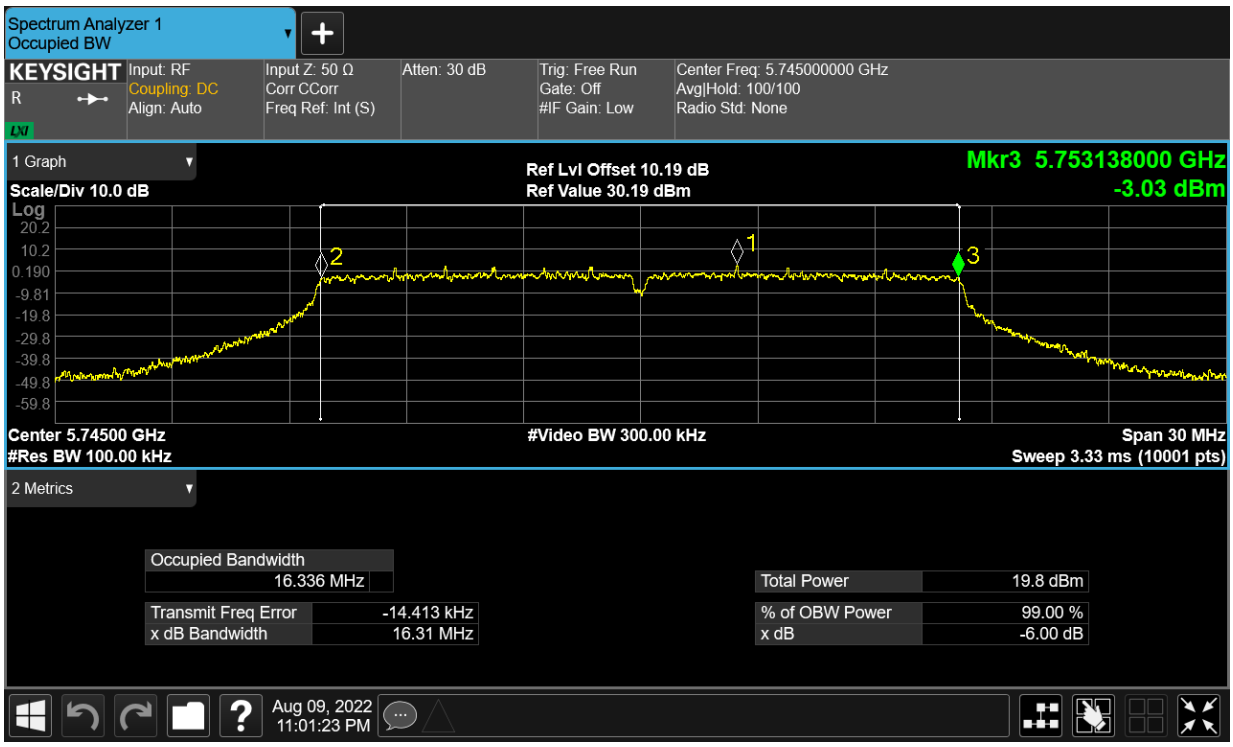
-6dB Bandwidth NVNT a 5785MHz Ant1



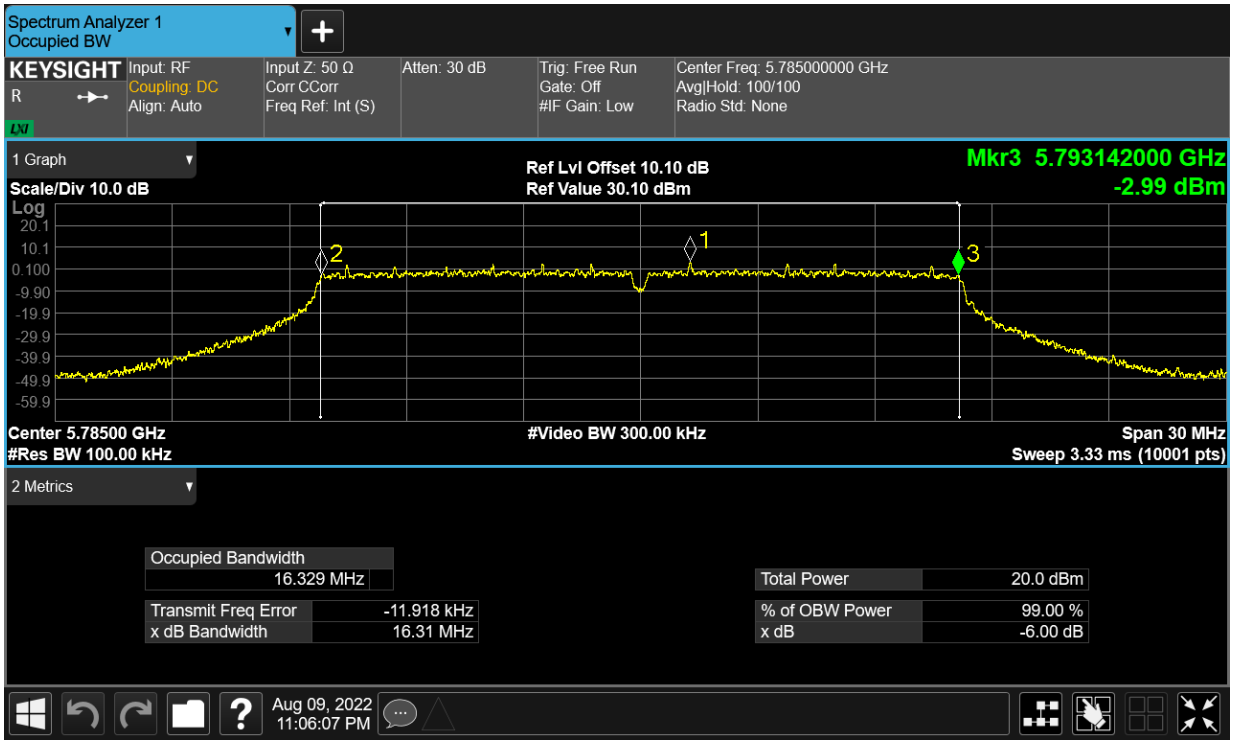
-6dB Bandwidth NVNT a 5825MHz Ant1



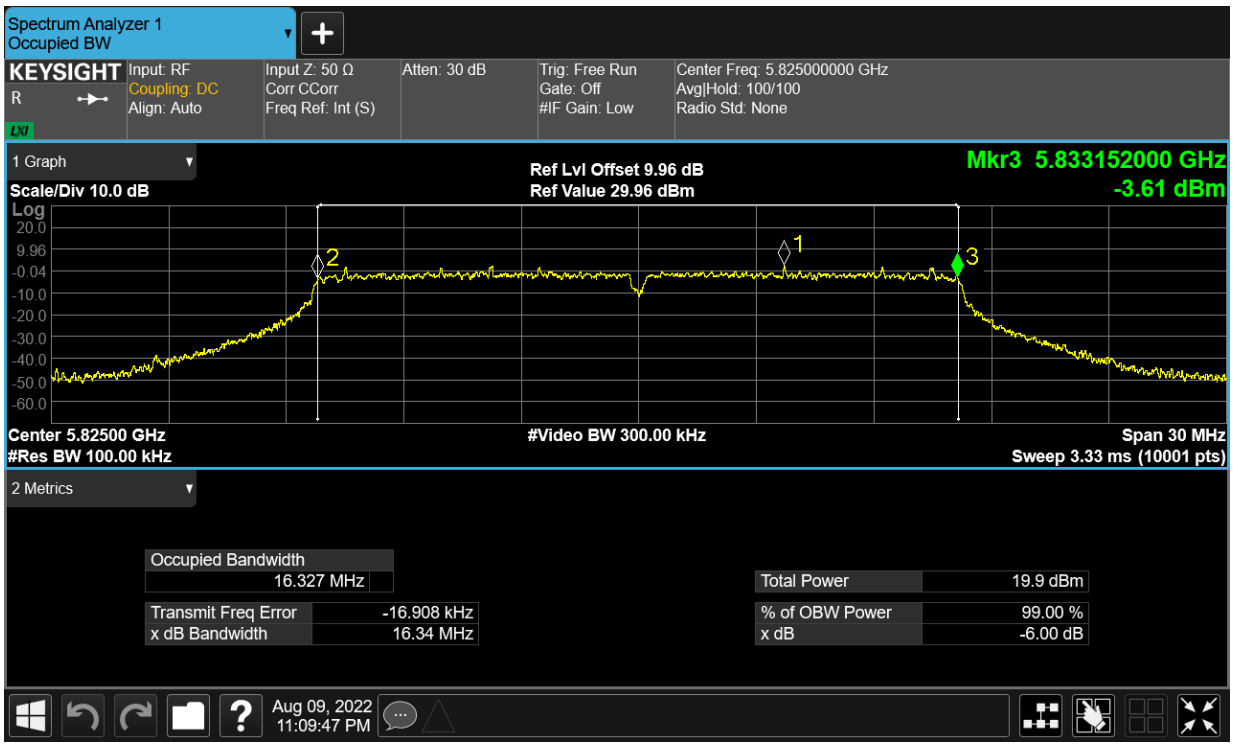
-6dB Bandwidth NVNT a 5745MHz Ant2



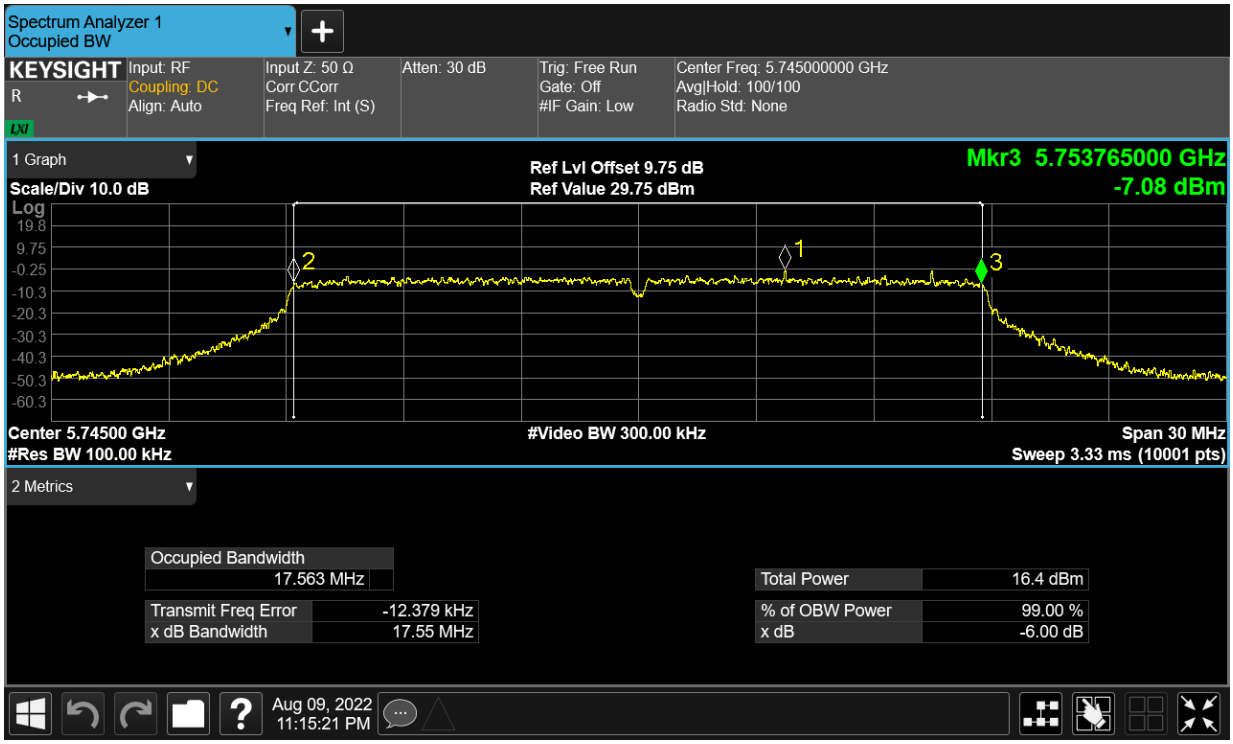
-6dB Bandwidth NVNT a 5785MHz Ant2



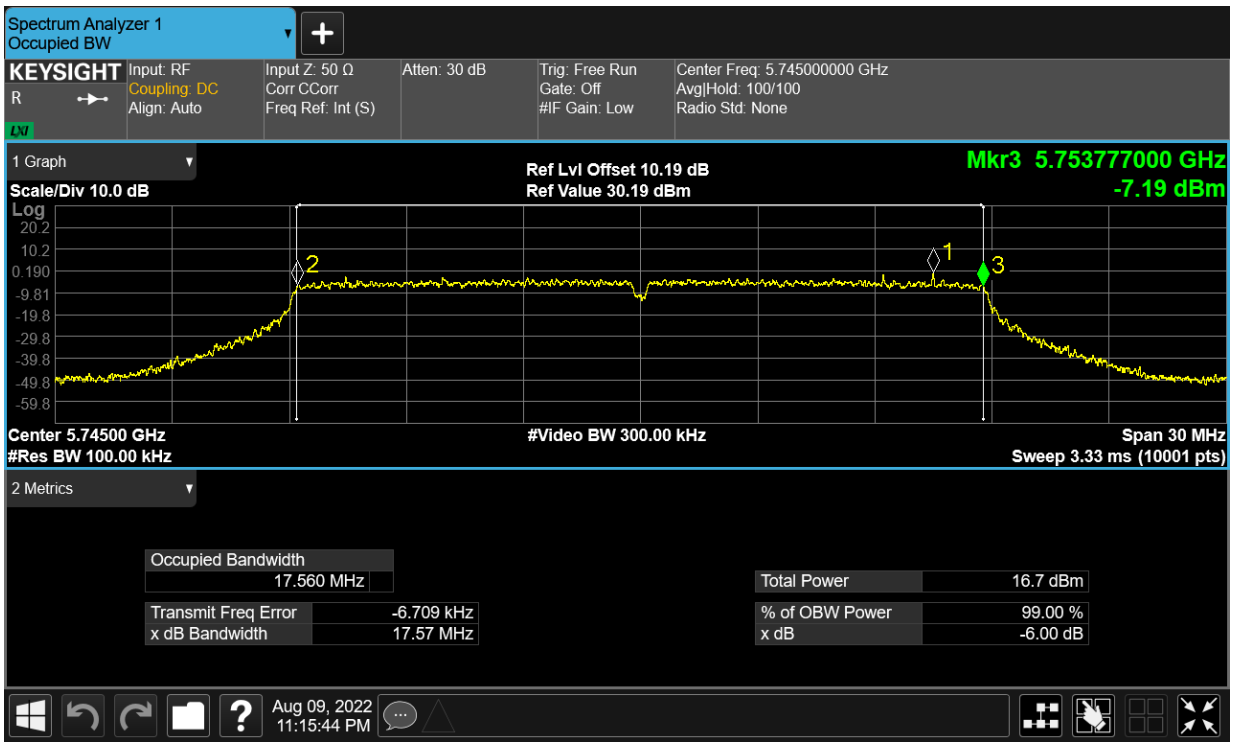
-6dB Bandwidth NVNT a 5825MHz Ant2



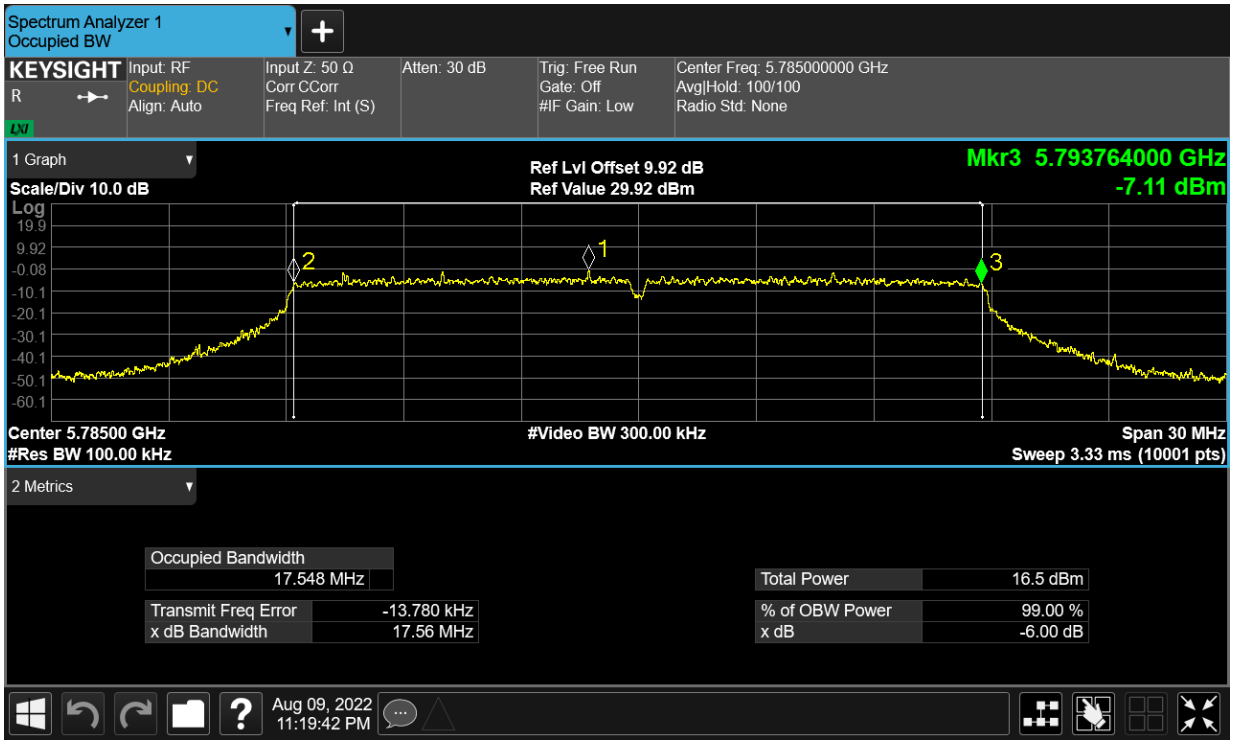
-6dB Bandwidth NVNT ac20 5745MHz Ant1



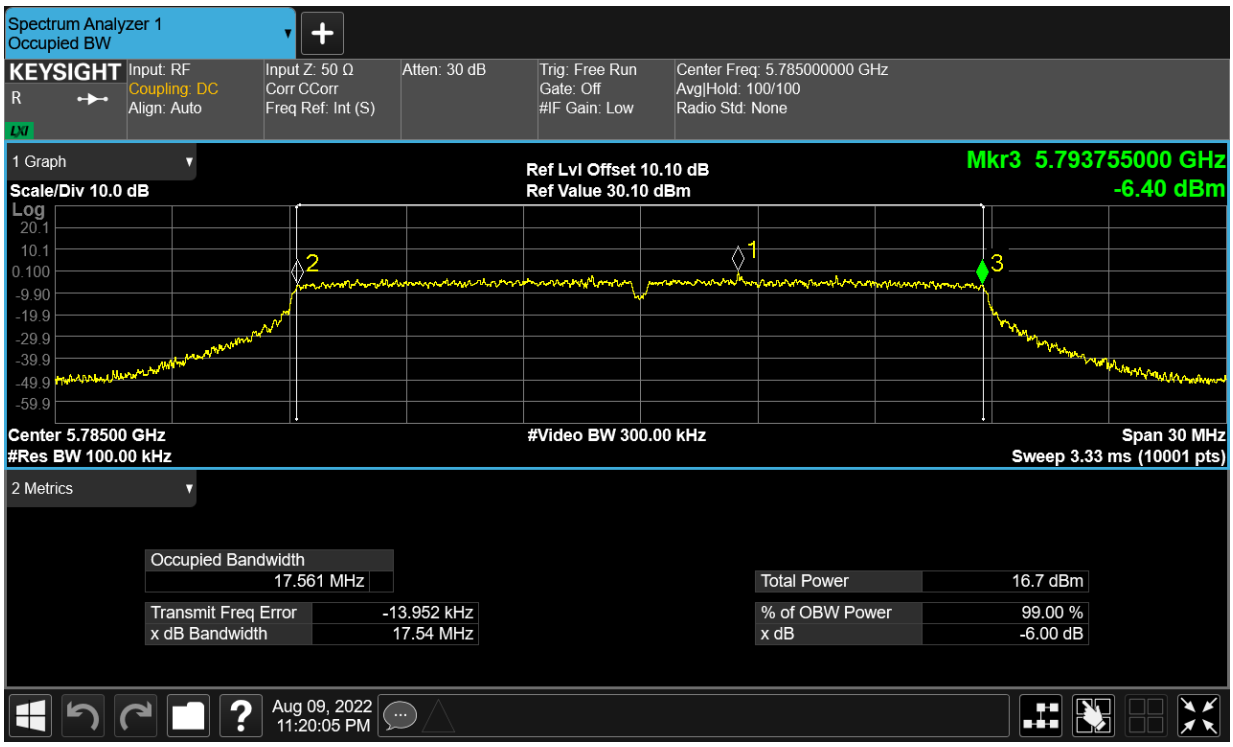
-6dB Bandwidth NVNT ac20 5745MHz Ant2



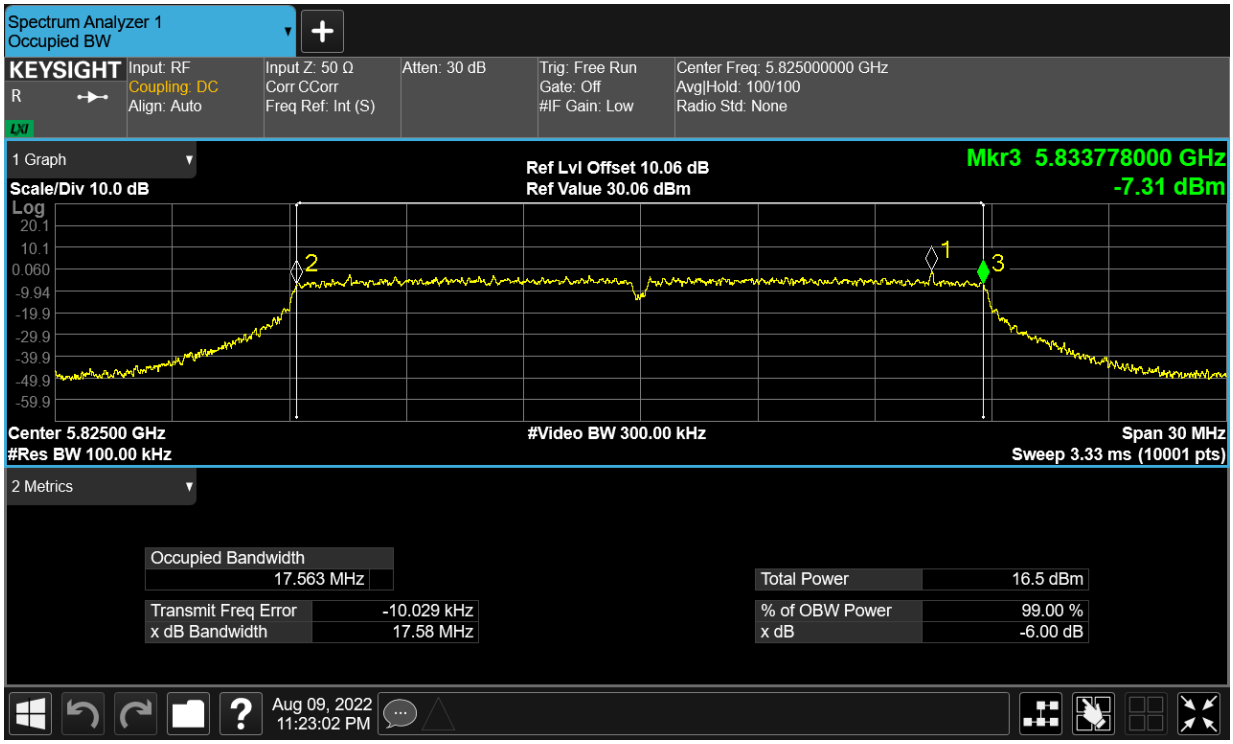
-6dB Bandwidth NVNT ac20 5785MHz Ant1



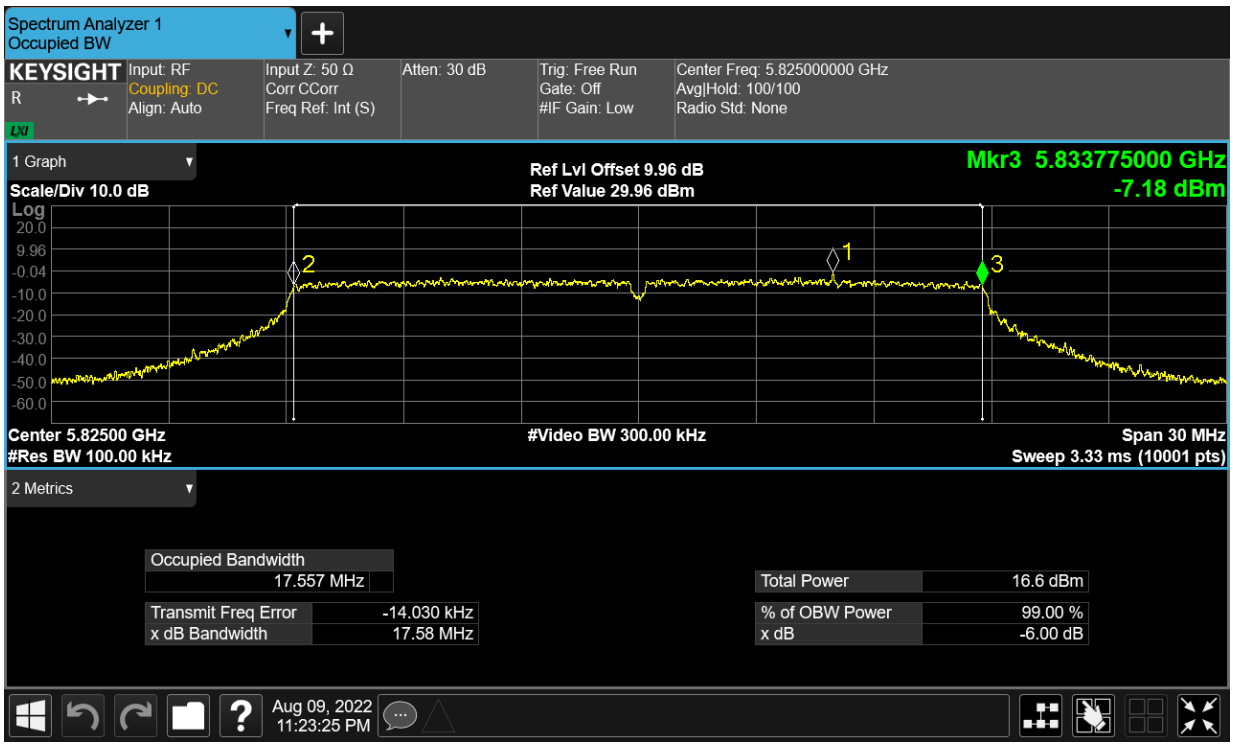
-6dB Bandwidth NVNT ac20 5785MHz Ant2



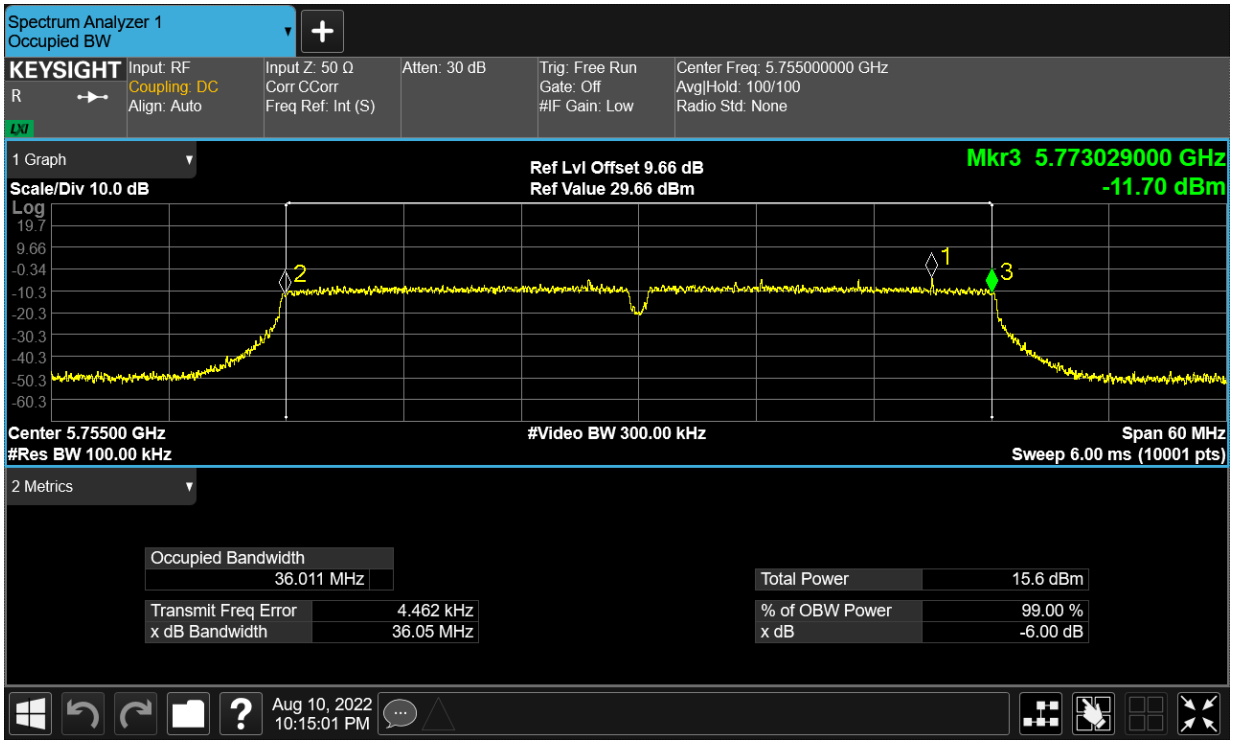
-6dB Bandwidth NVNT ac20 5825MHz Ant1



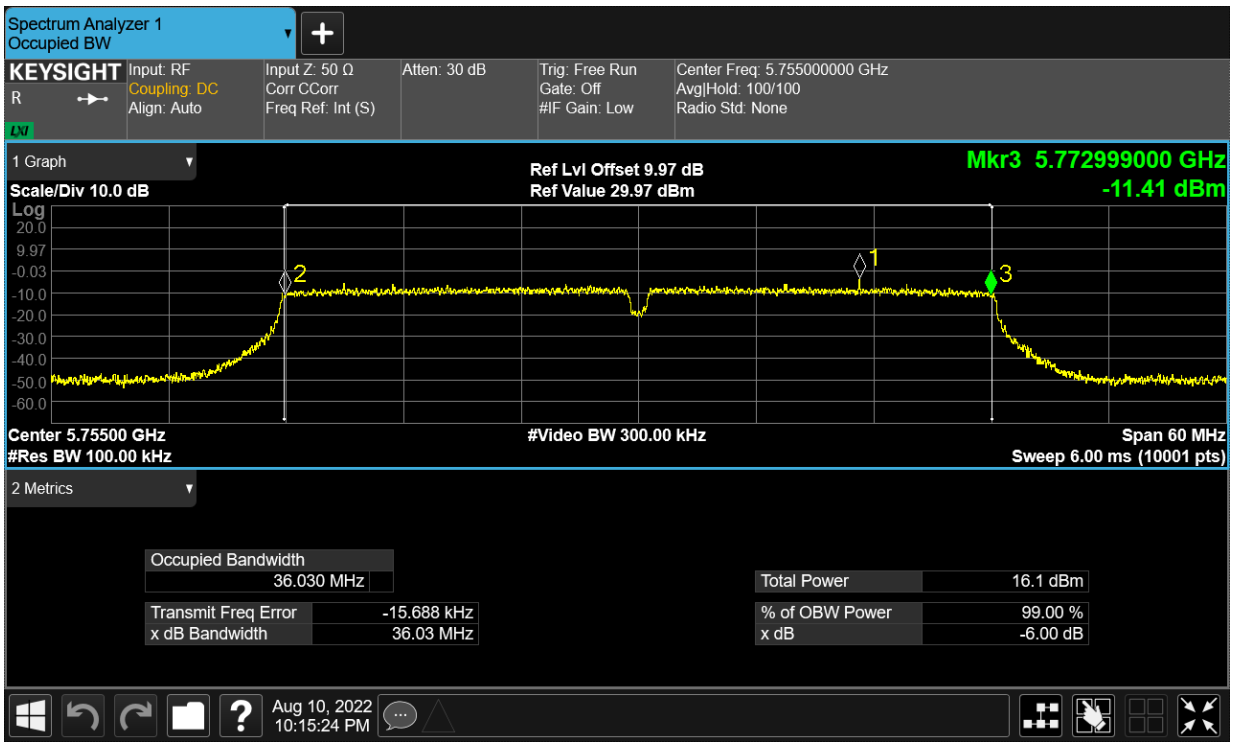
-6dB Bandwidth NVNT ac20 5825MHz Ant2



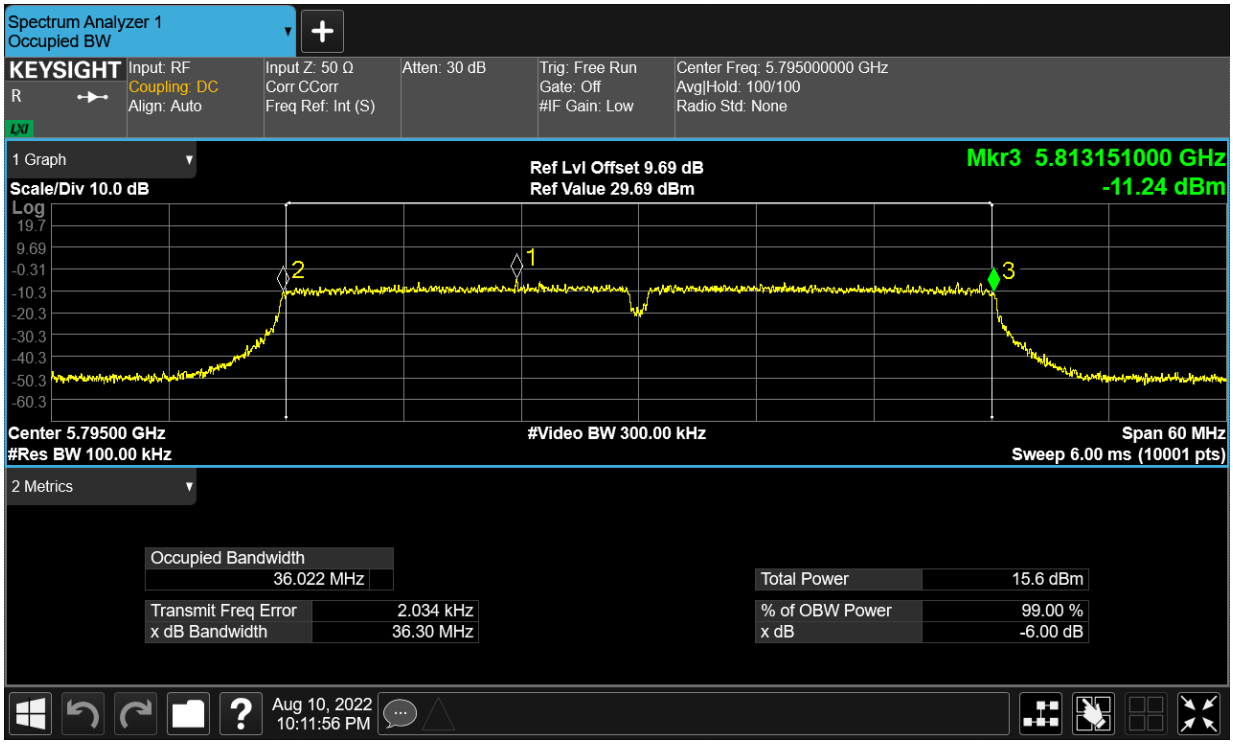
-6dB Bandwidth NVNT ac40 5755MHz Ant1



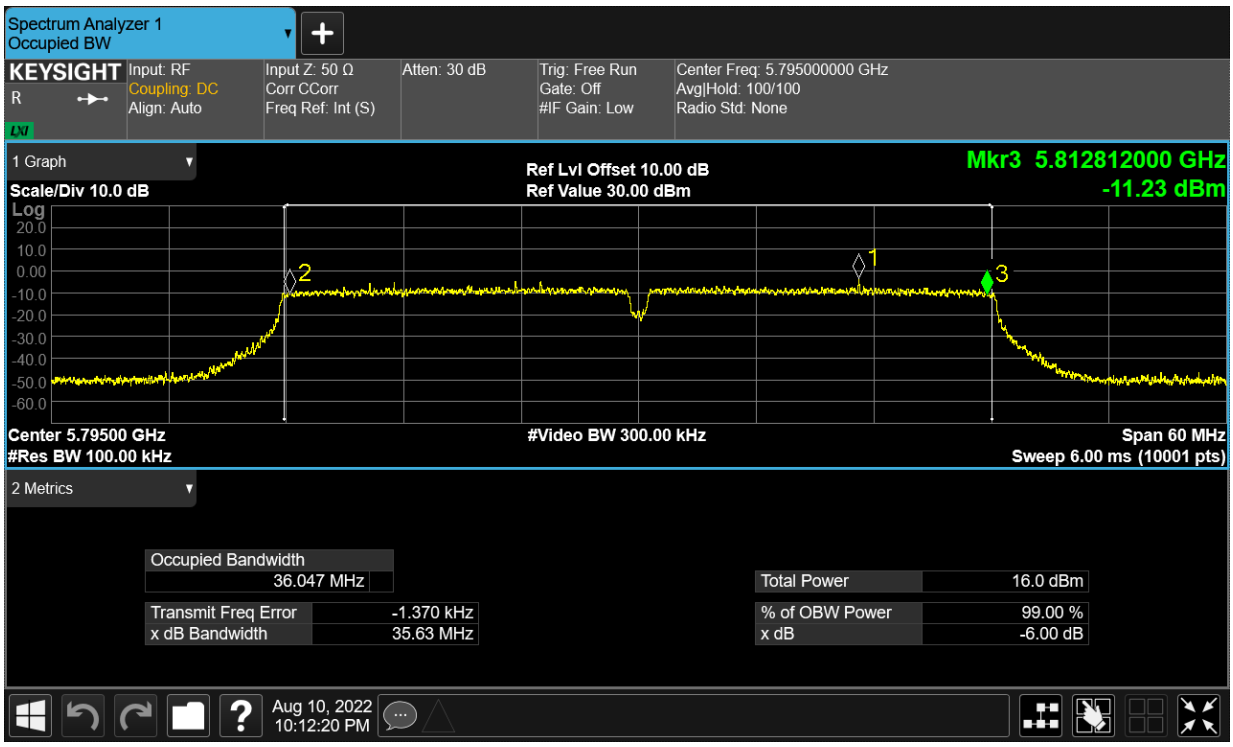
-6dB Bandwidth NVNT ac40 5755MHz Ant2



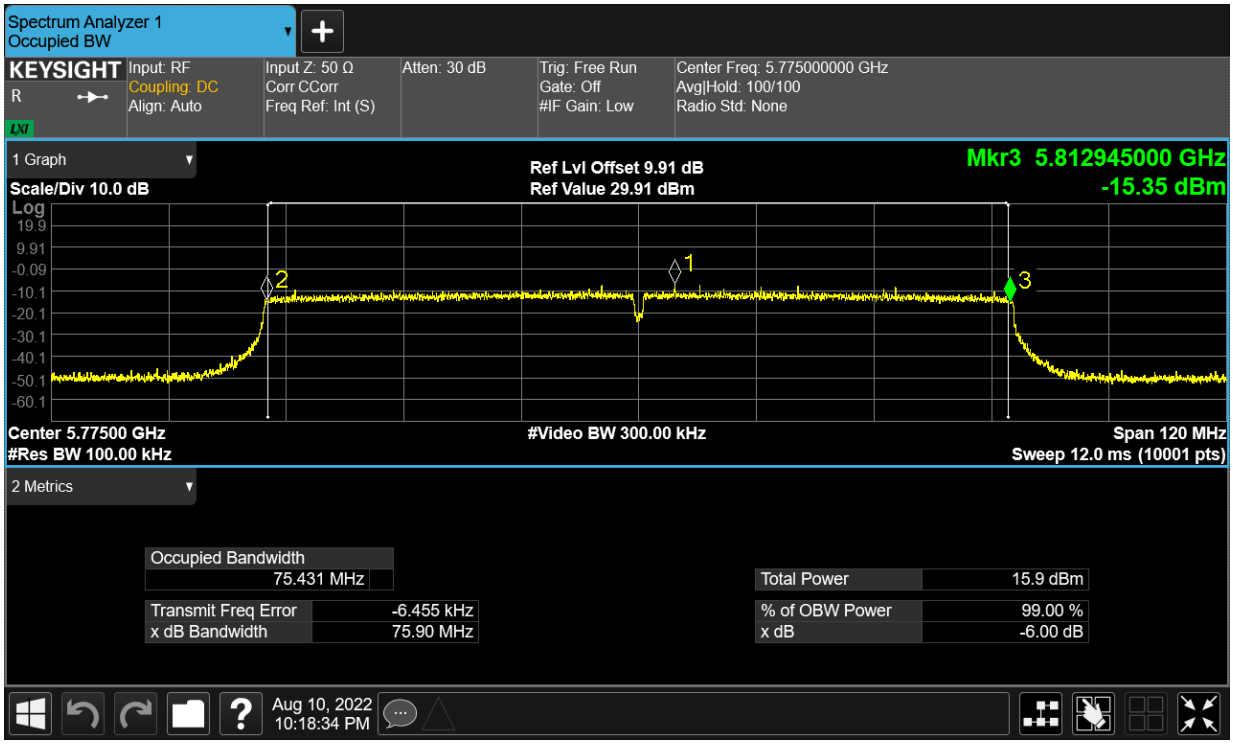
-6dB Bandwidth NVNT ac40 5795MHz Ant1



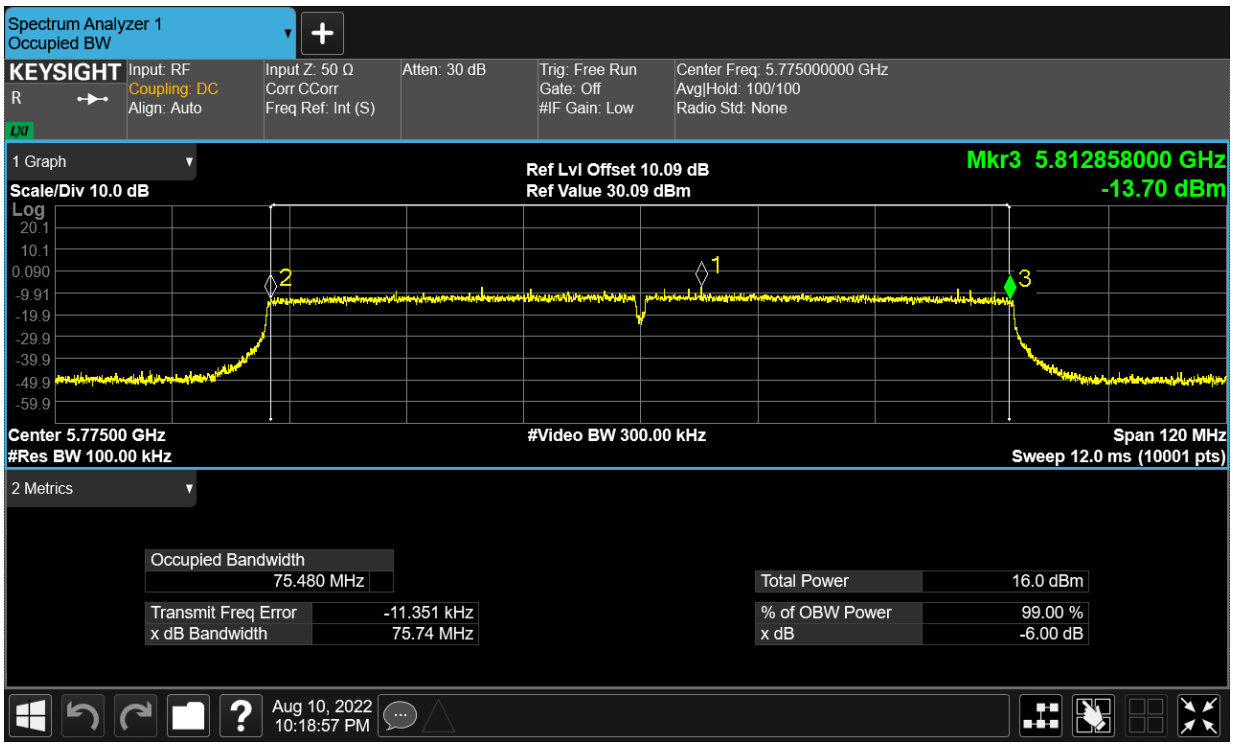
-6dB Bandwidth NVNT ac40 5795MHz Ant2



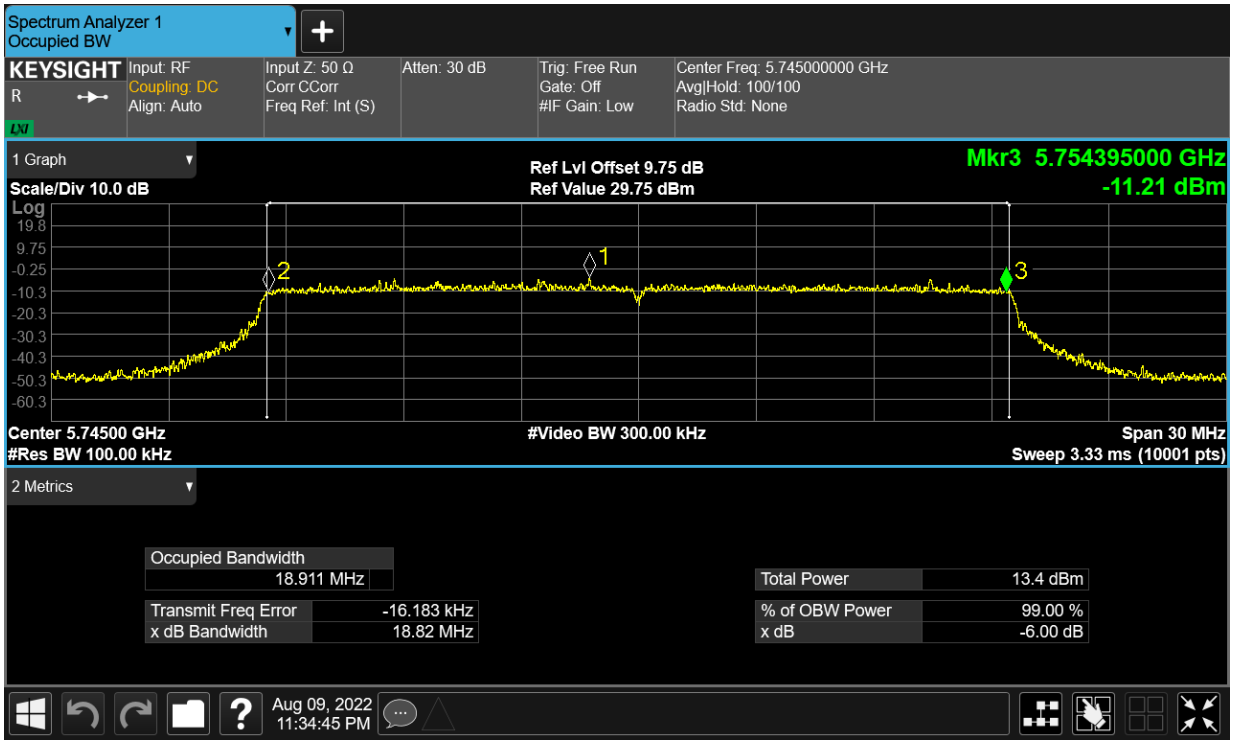
-6dB Bandwidth NVNT ac80 5775MHz Ant1



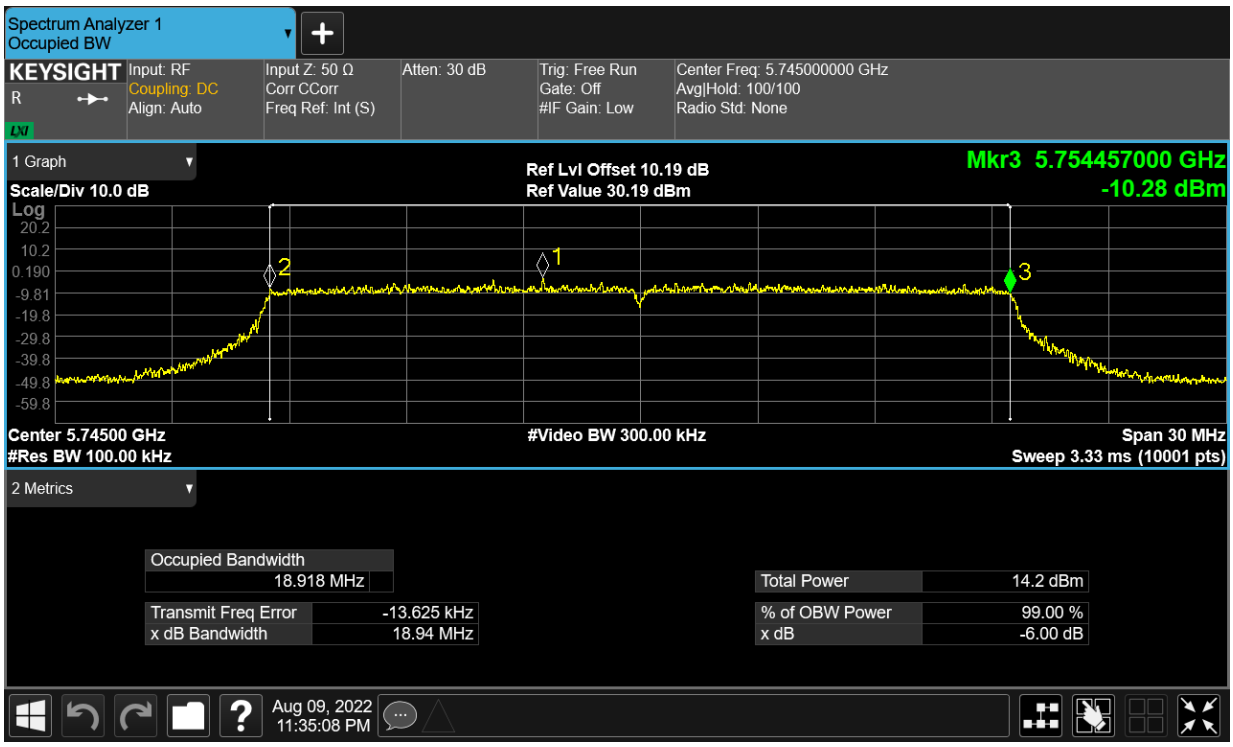
-6dB Bandwidth NVNT ac80 5775MHz Ant2



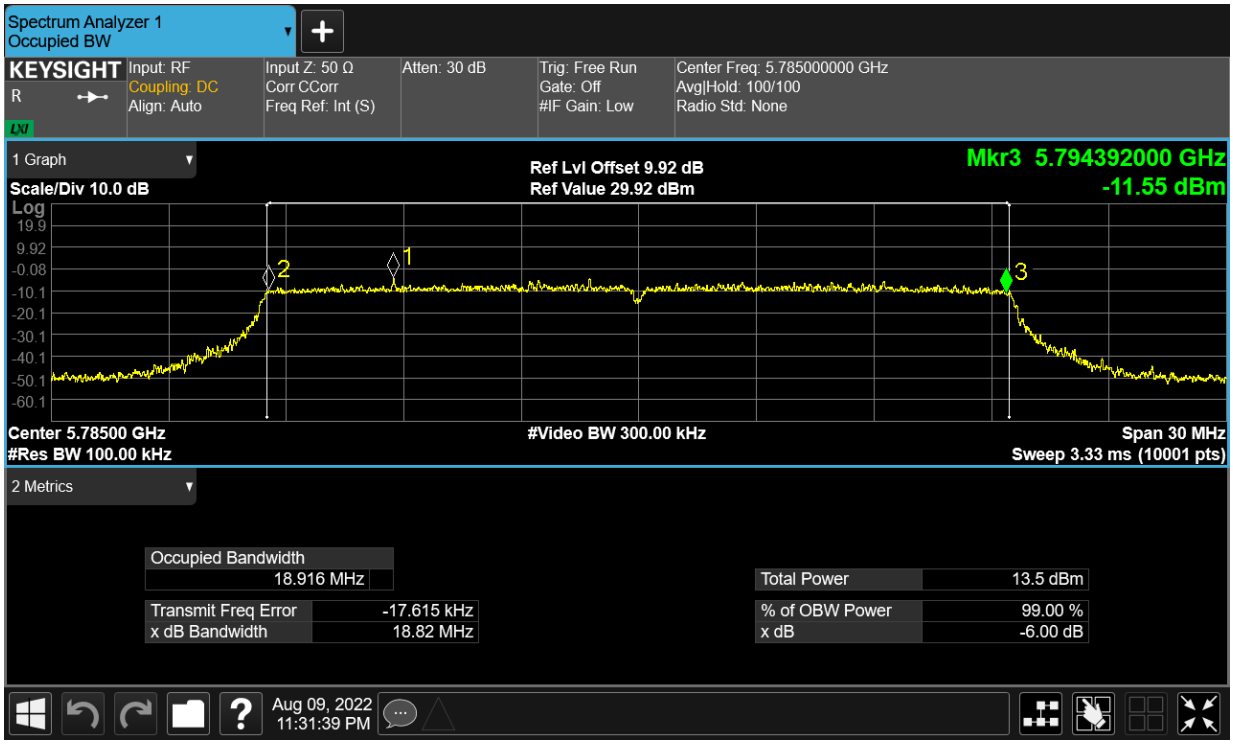
-6dB Bandwidth NVNT ax20 5745MHz Ant1



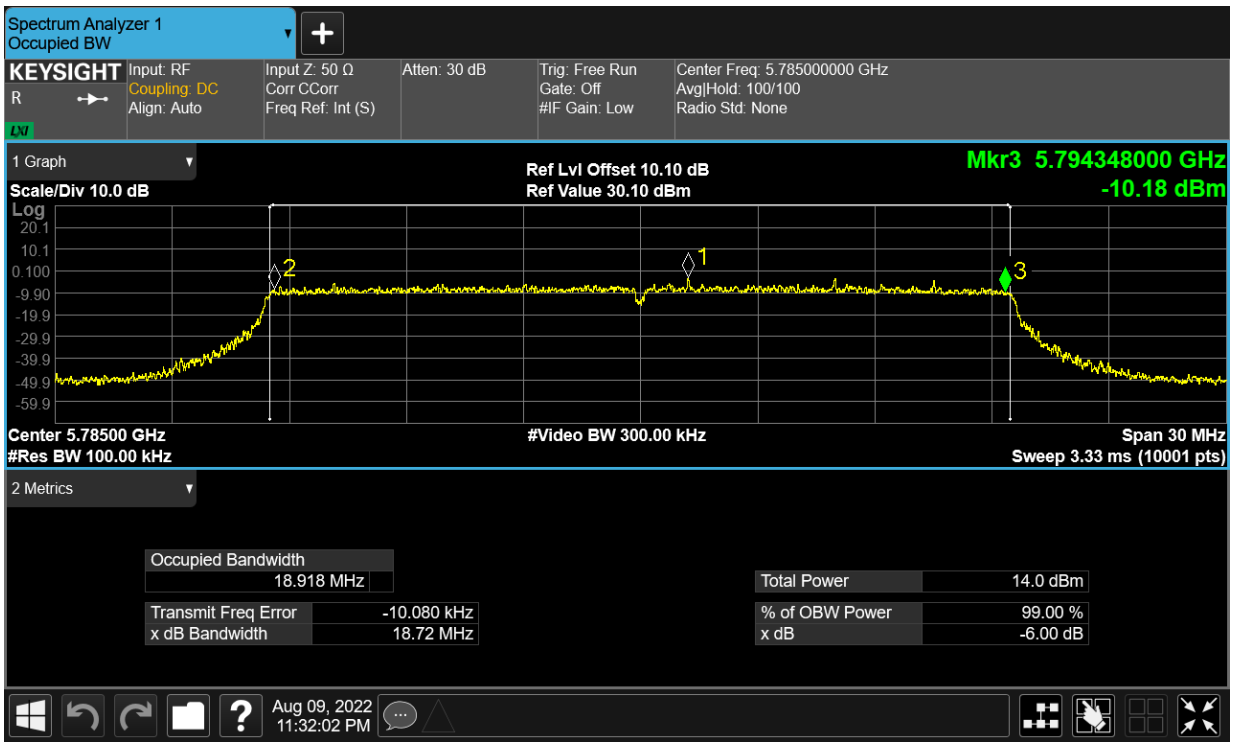
-6dB Bandwidth NVNT ax20 5745MHz Ant2



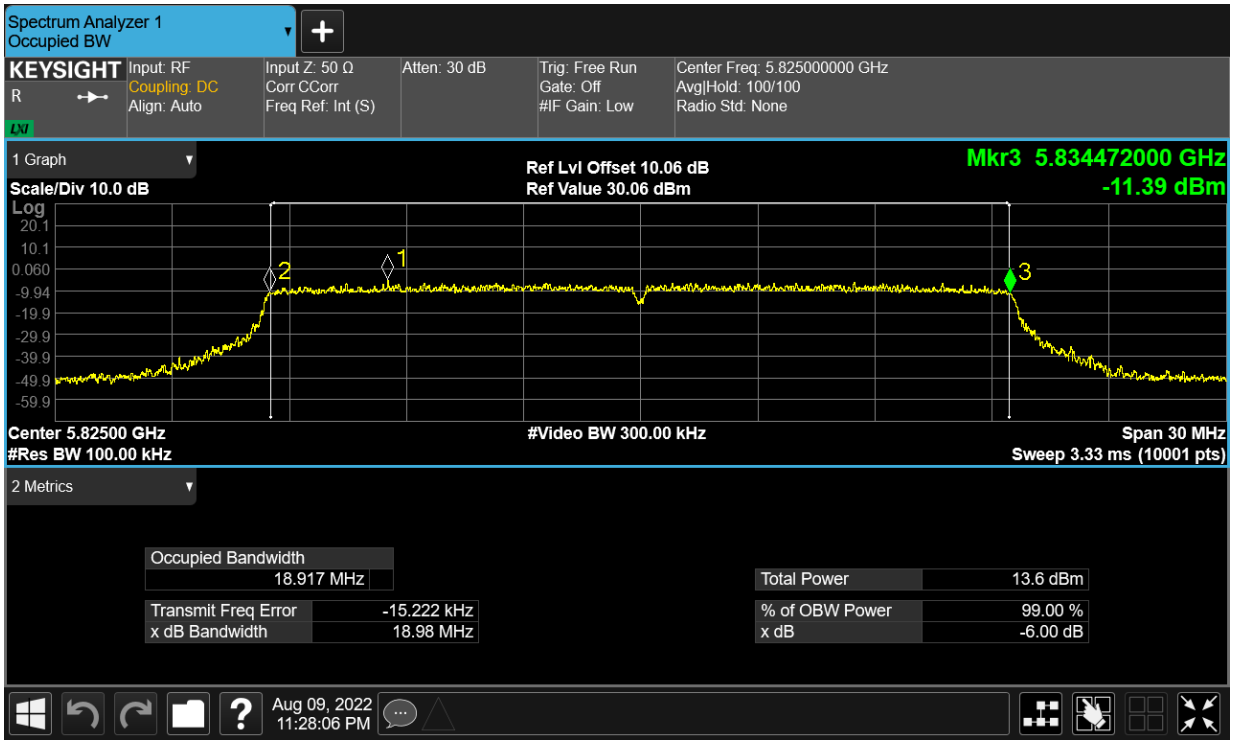
-6dB Bandwidth NVNT ax20 5785MHz Ant1



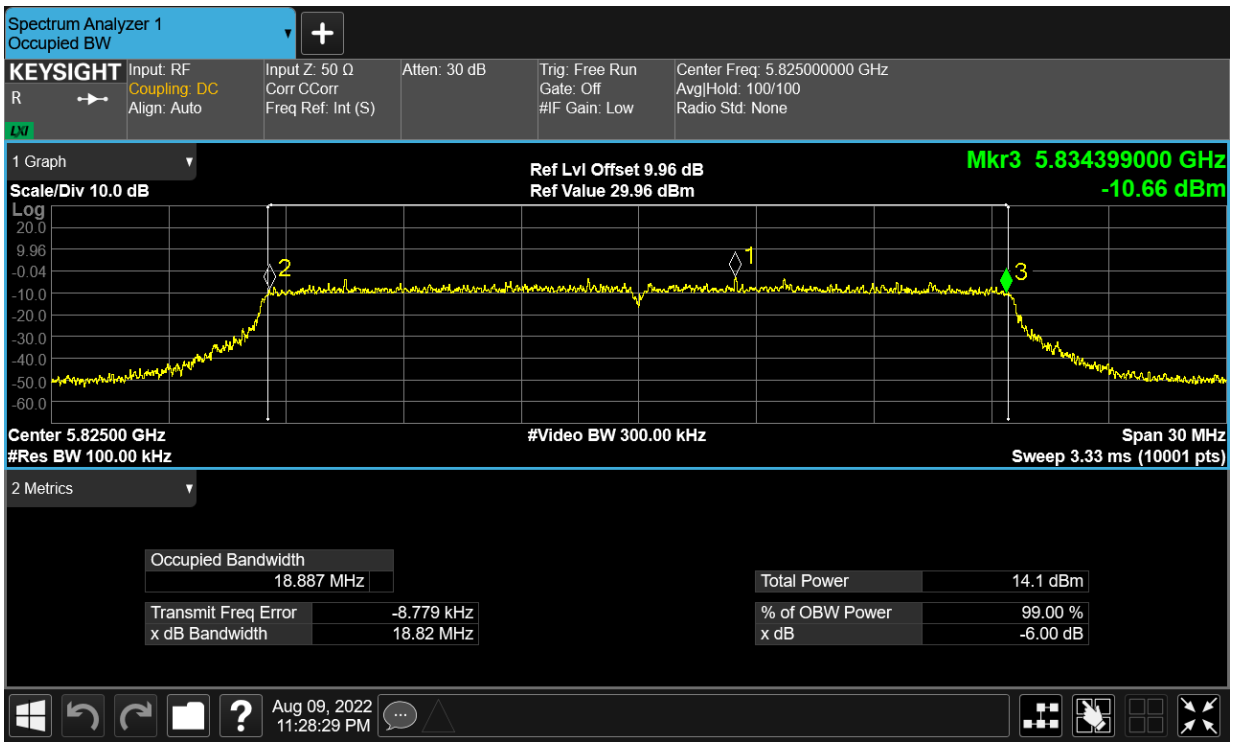
-6dB Bandwidth NVNT ax20 5785MHz Ant2



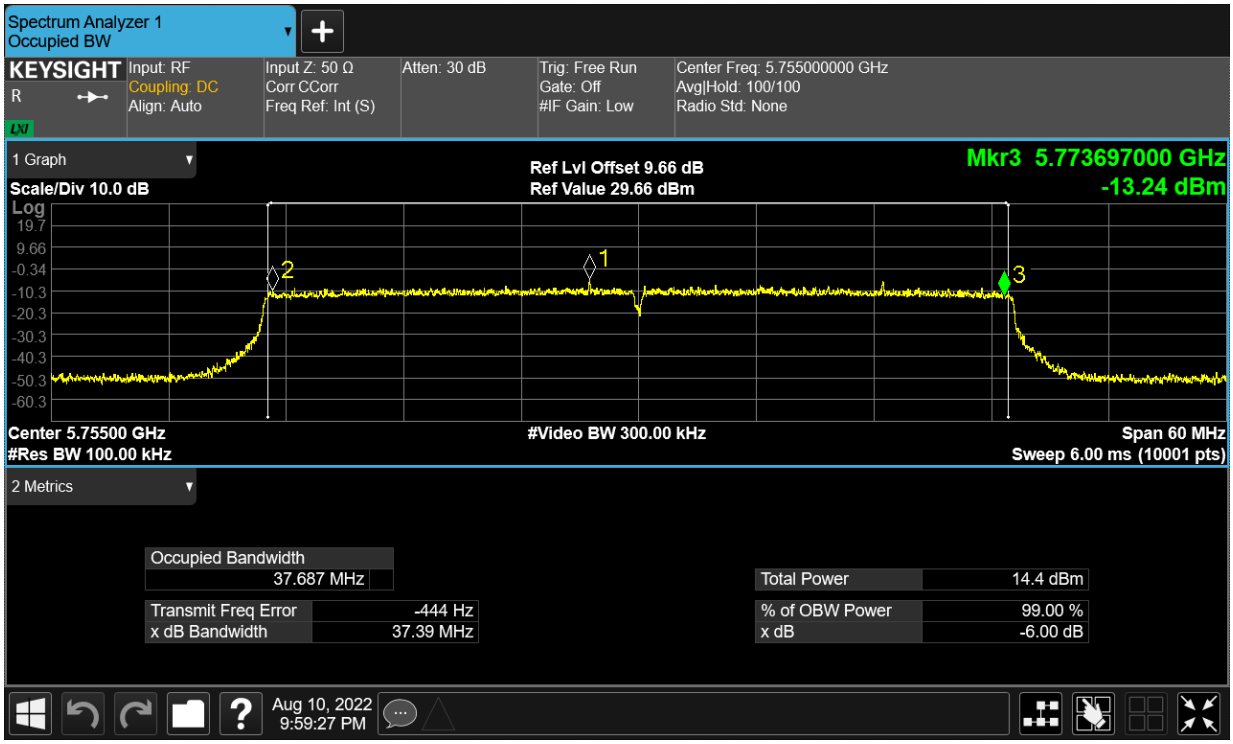
-6dB Bandwidth NVNT ax20 5825MHz Ant1



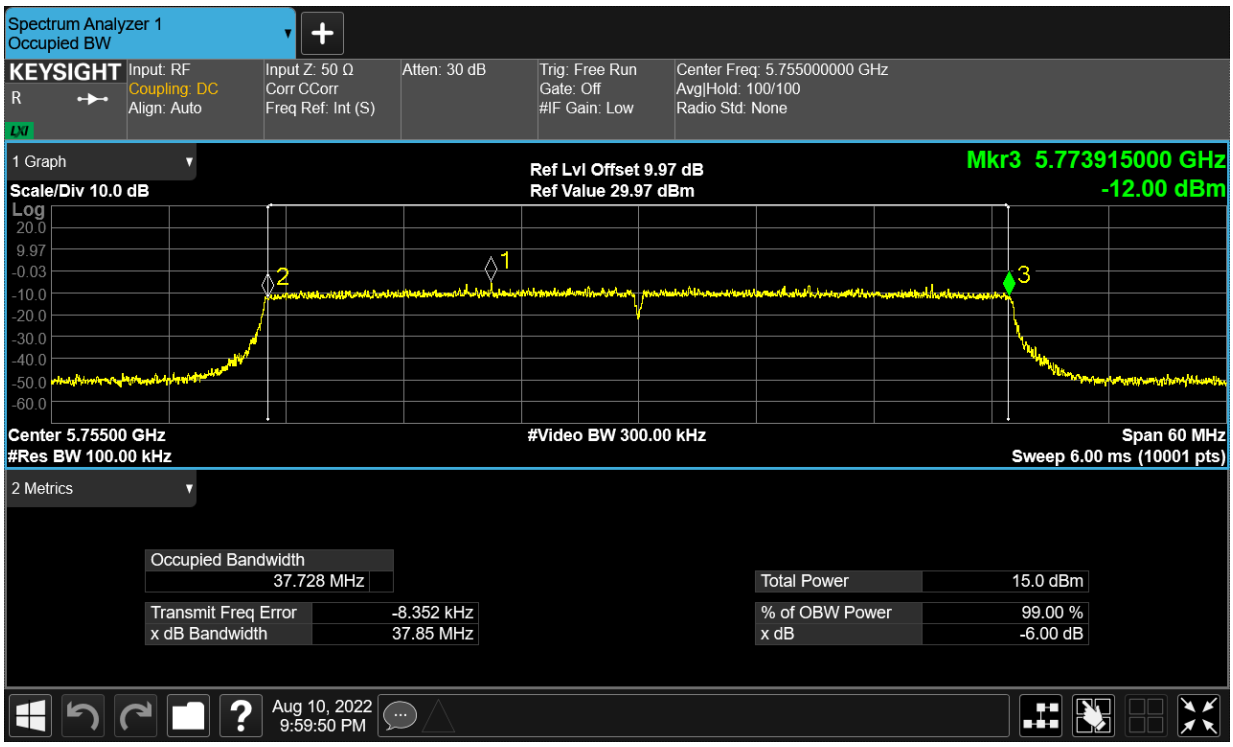
-6dB Bandwidth NVNT ax20 5825MHz Ant2



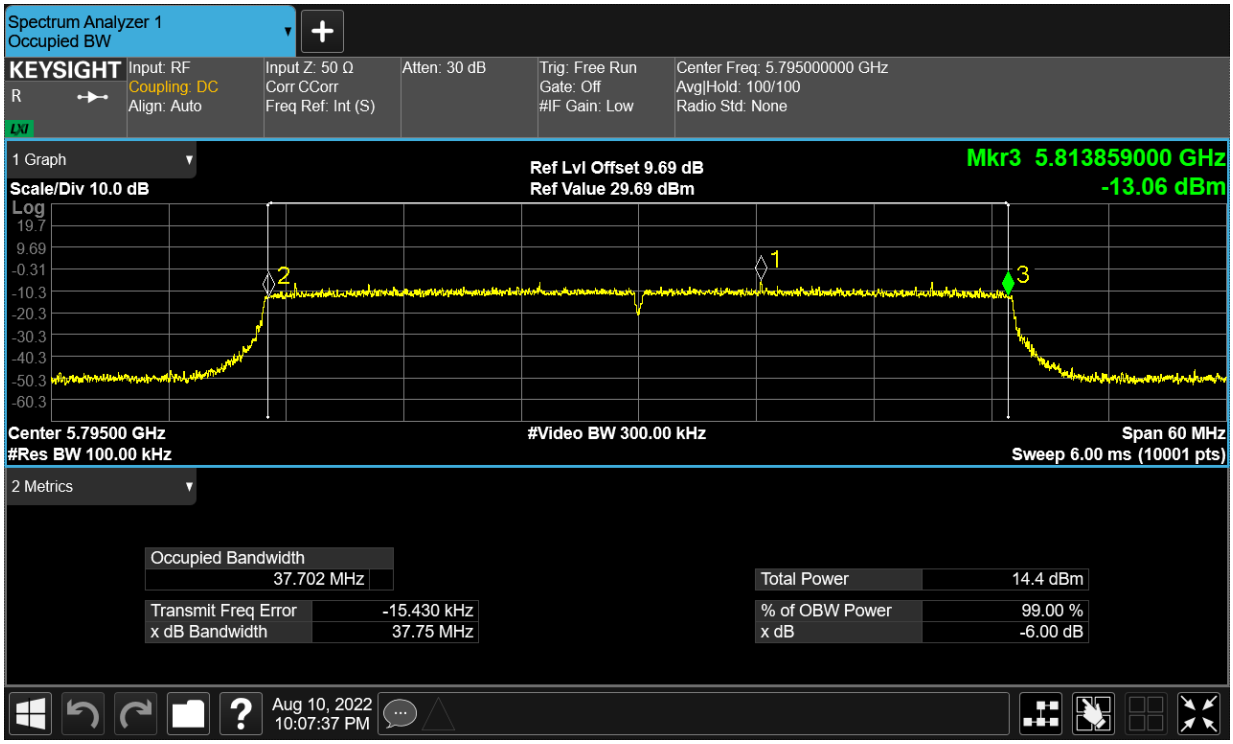
-6dB Bandwidth NVNT ax40 5755MHz Ant1



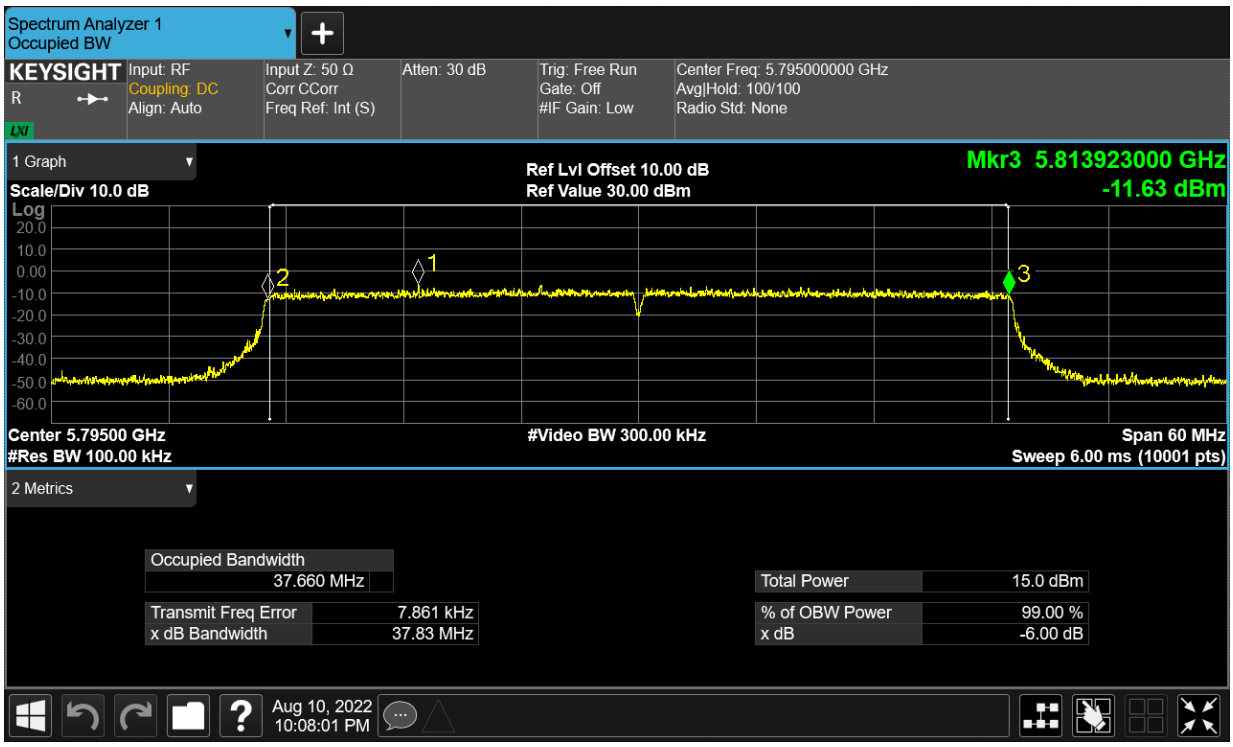
-6dB Bandwidth NVNT ax40 5755MHz Ant2



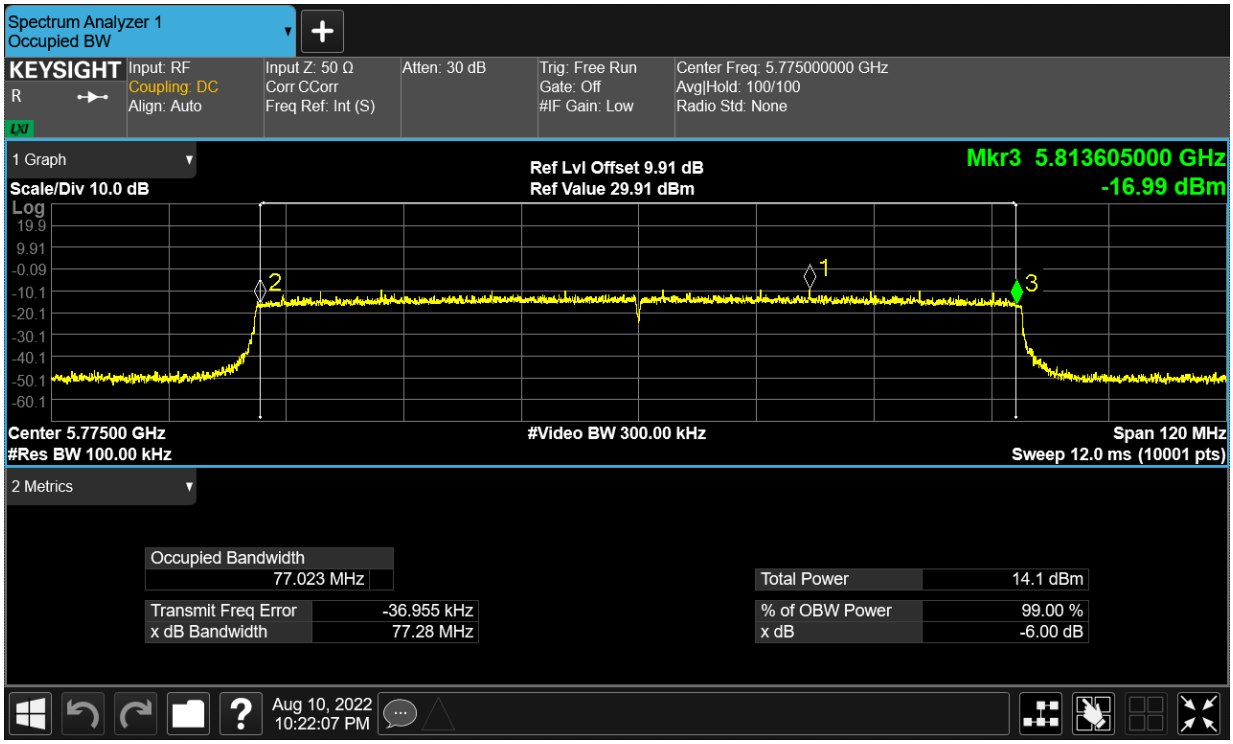
-6dB Bandwidth NVNT ax40 5795MHz Ant1



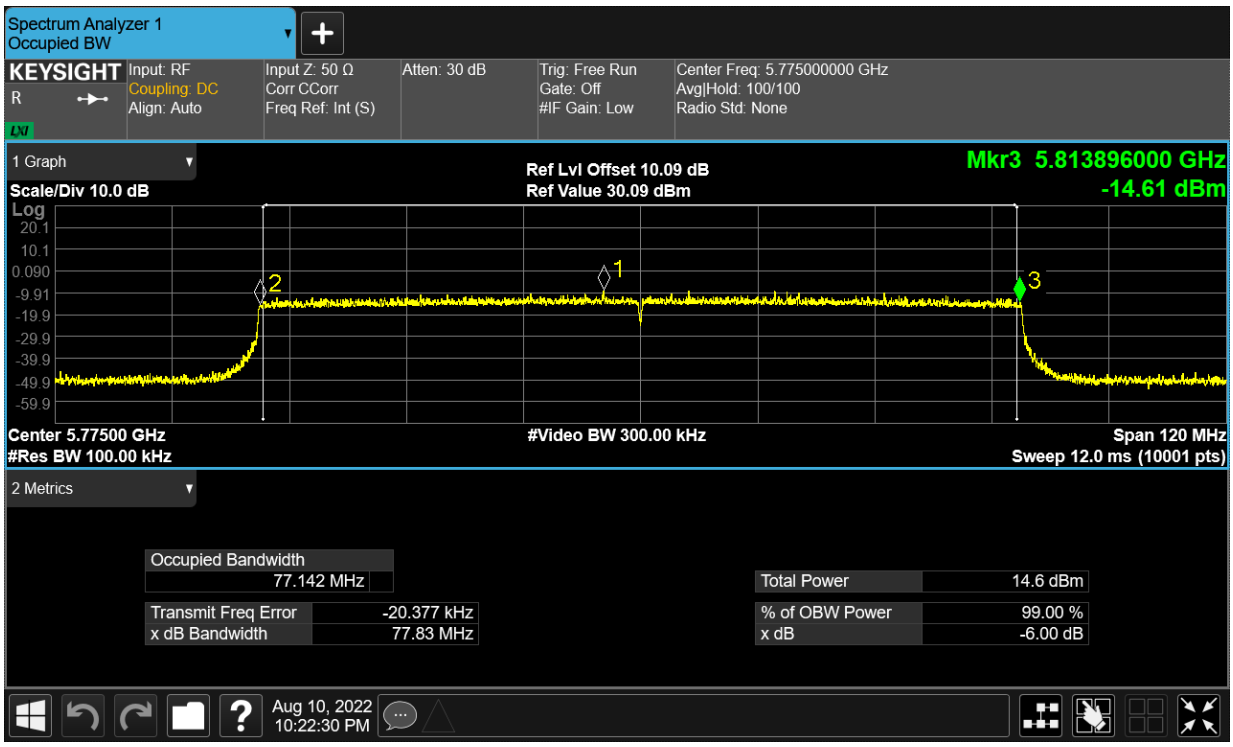
-6dB Bandwidth NVNT ax40 5795MHz Ant2



-6dB Bandwidth NVNT ax80 5775MHz Ant1



-6dB Bandwidth NVNT ax80 5775MHz Ant2



-6dB Bandwidth NVNT n20 5745MHz Ant1