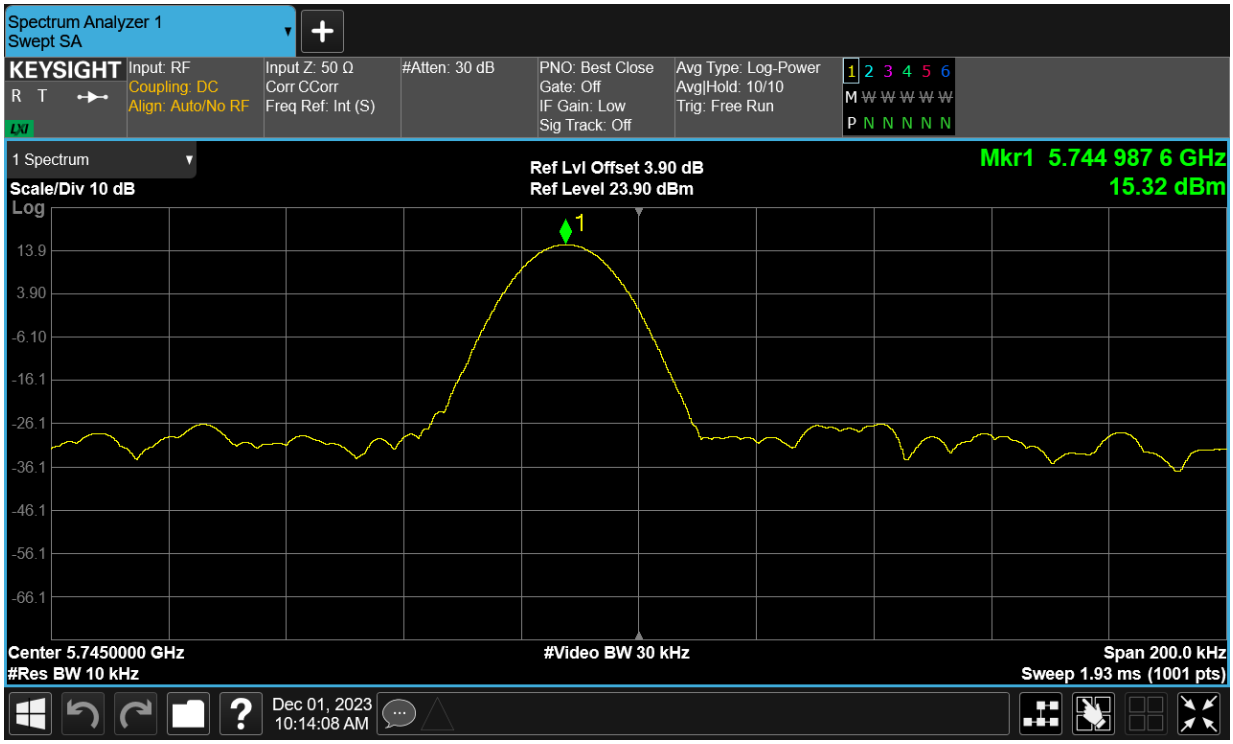
Test Data

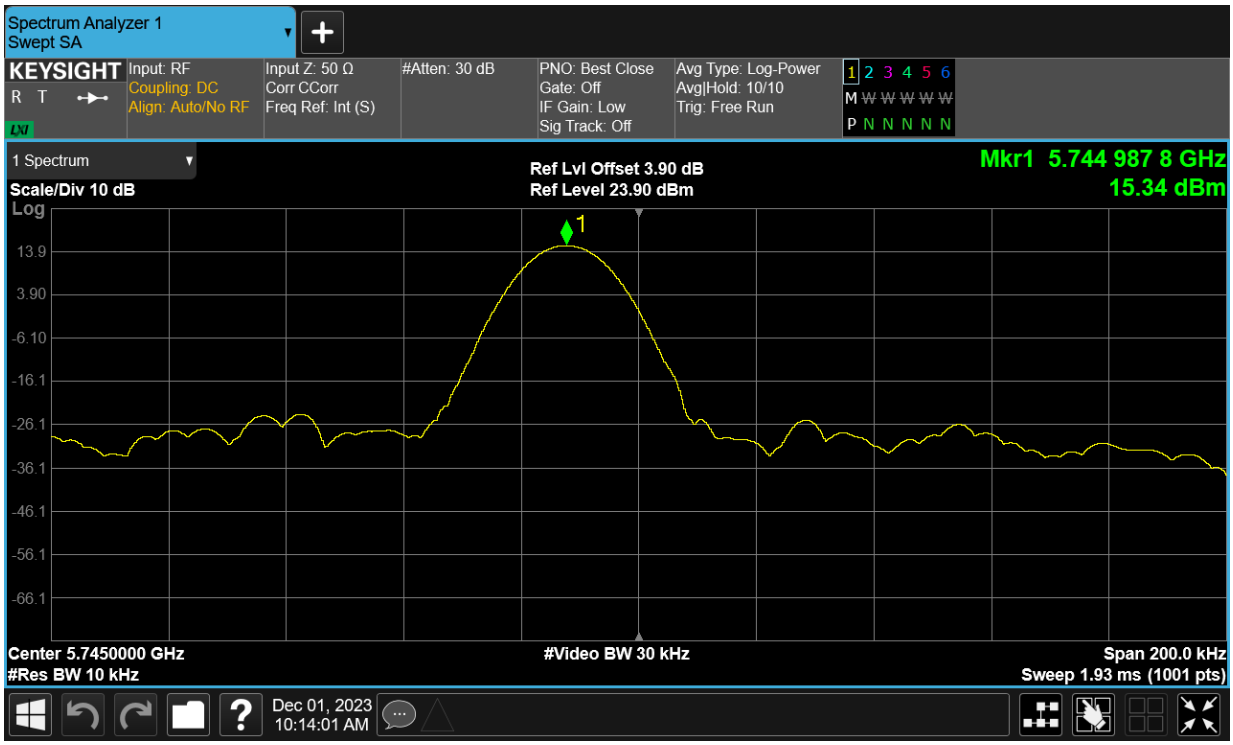
Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5745	Ant14	5744.9876	-2.16	Within authorized band	Pass
LVNT	a	5745	Ant14	5744.9878	-2.12		Pass
NVHT	a	5745	Ant14	5744.9878	-2.12		Pass
NVLT	a	5745	Ant14	5744.9878	-2.12		Pass
NVNT	a	5745	Ant14	5744.9882	-2.05		Pass
HVNT	ac80	5775	Ant14	5774.9874	-2.18		Pass
LVNT	ac80	5775	Ant14	5774.9876	-2.15		Pass
NVHT	ac80	5775	Ant14	5774.9878	-2.11		Pass
NVLT	ac80	5775	Ant14	5774.9882	-2.04		Pass
NVNT	ac80	5775	Ant14	5774.9886	-1.97		Pass
HVNT	n40	5755	Ant14	5754.9874	-2.19		Pass
LVNT	n40	5755	Ant14	5754.9874	-2.19		Pass
NVHT	n40	5755	Ant14	5754.9876	-2.15		Pass
NVLT	n40	5755	Ant14	5754.9878	-2.12		Pass
NVNT	n40	5755	Ant14	5754.988	-2.09		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							

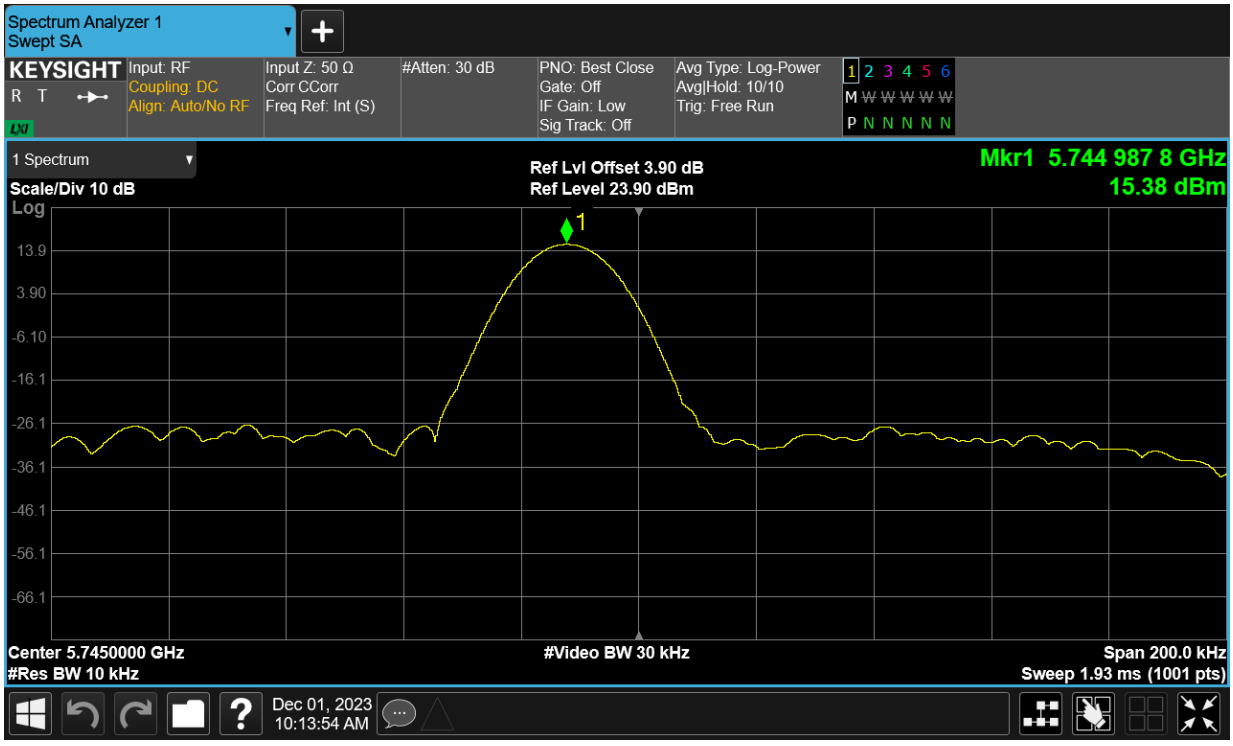
Test Graphs
Freq. Stability HVNT a 5745MHz Ant14



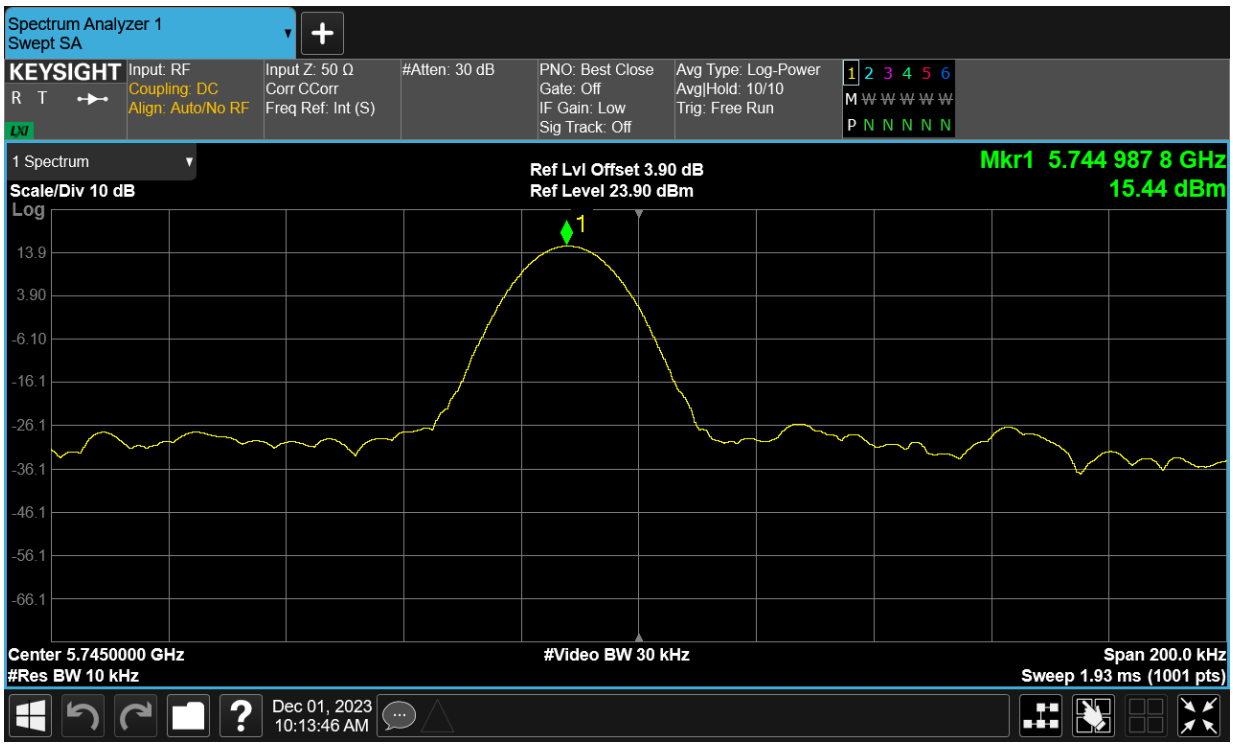
Freq. Stability LVNT a 5745MHz Ant14



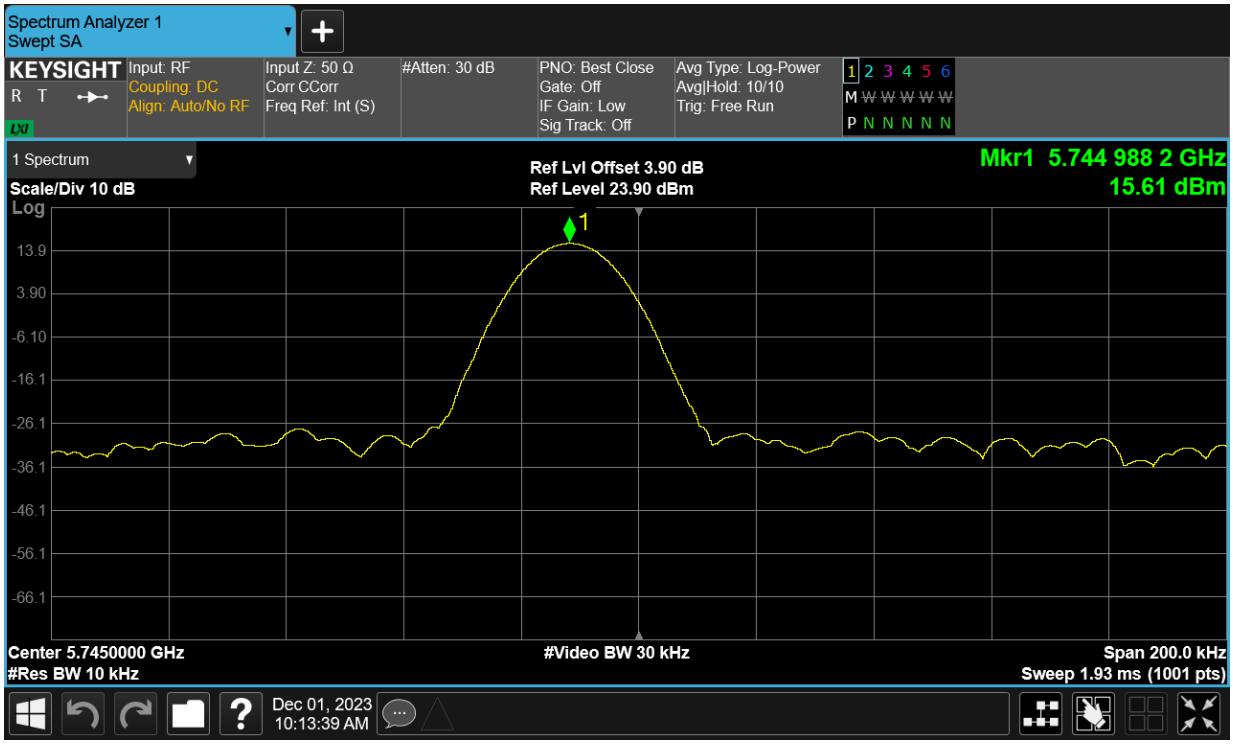
Freq. Stability NVHT a 5745MHz Ant14



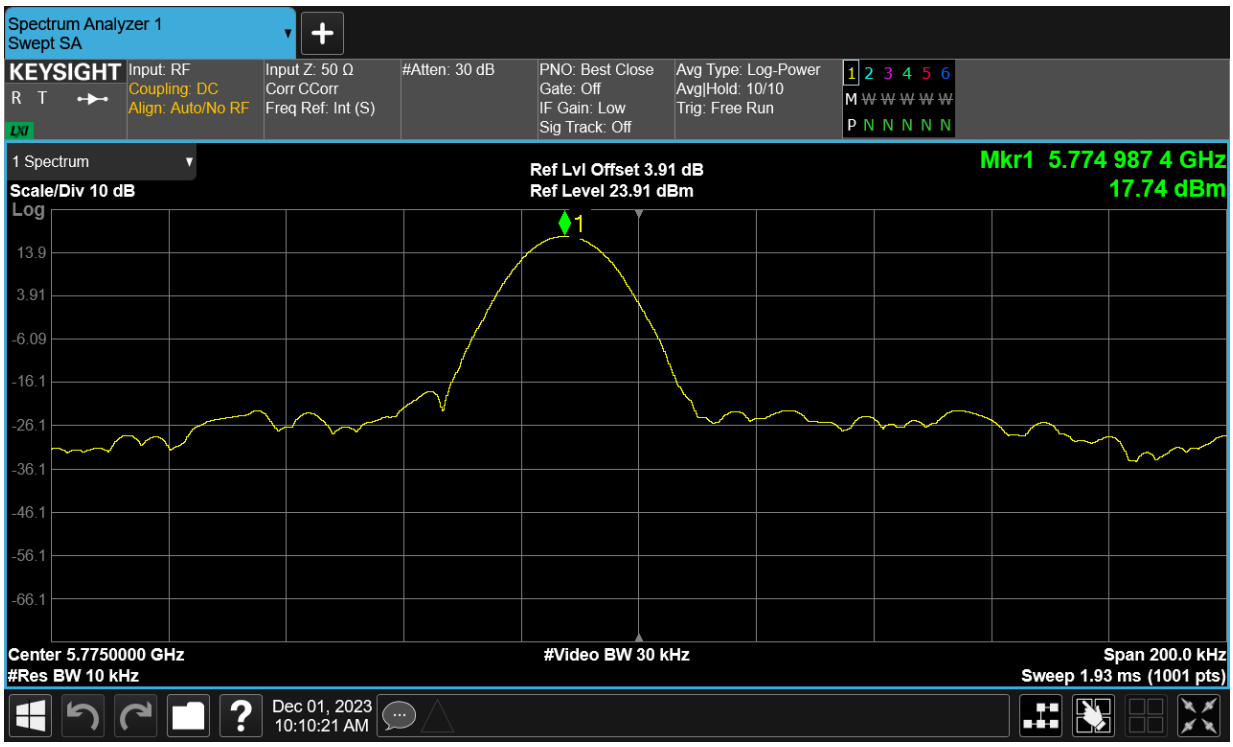
Freq. Stability NVLT a 5745MHz Ant14



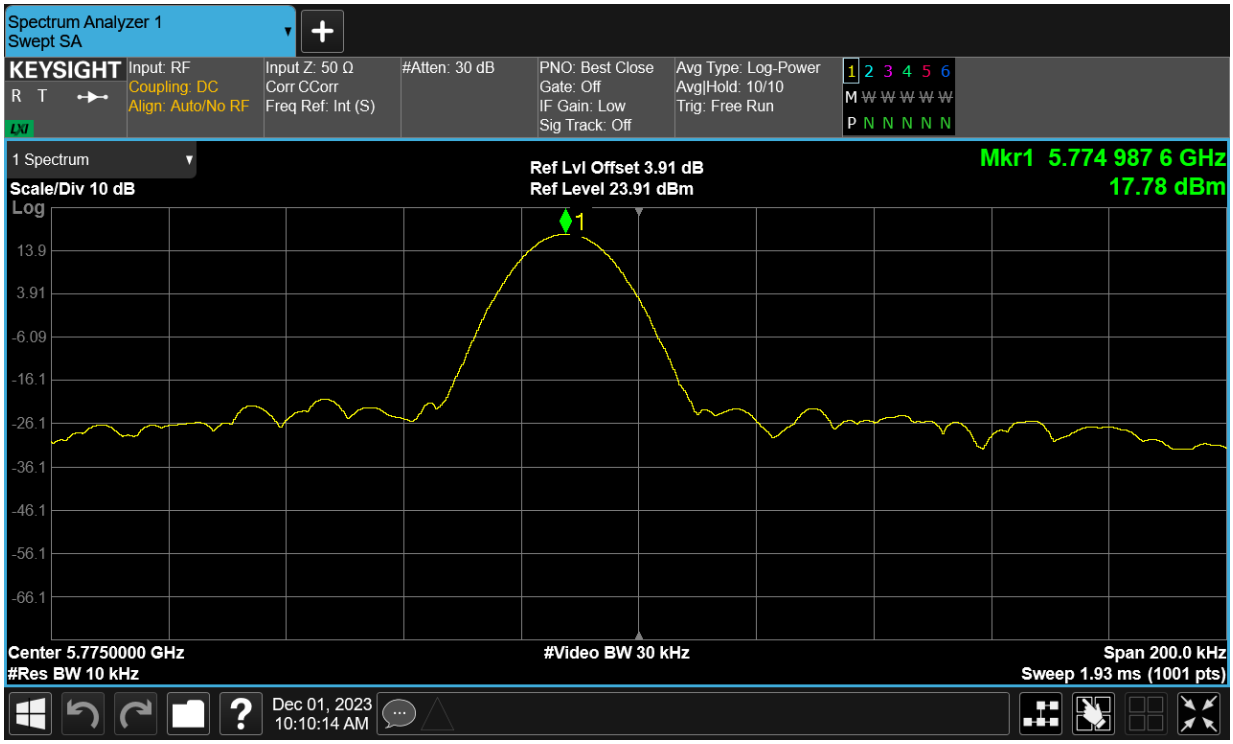
Freq. Stability NVNT a 5745MHz Ant14



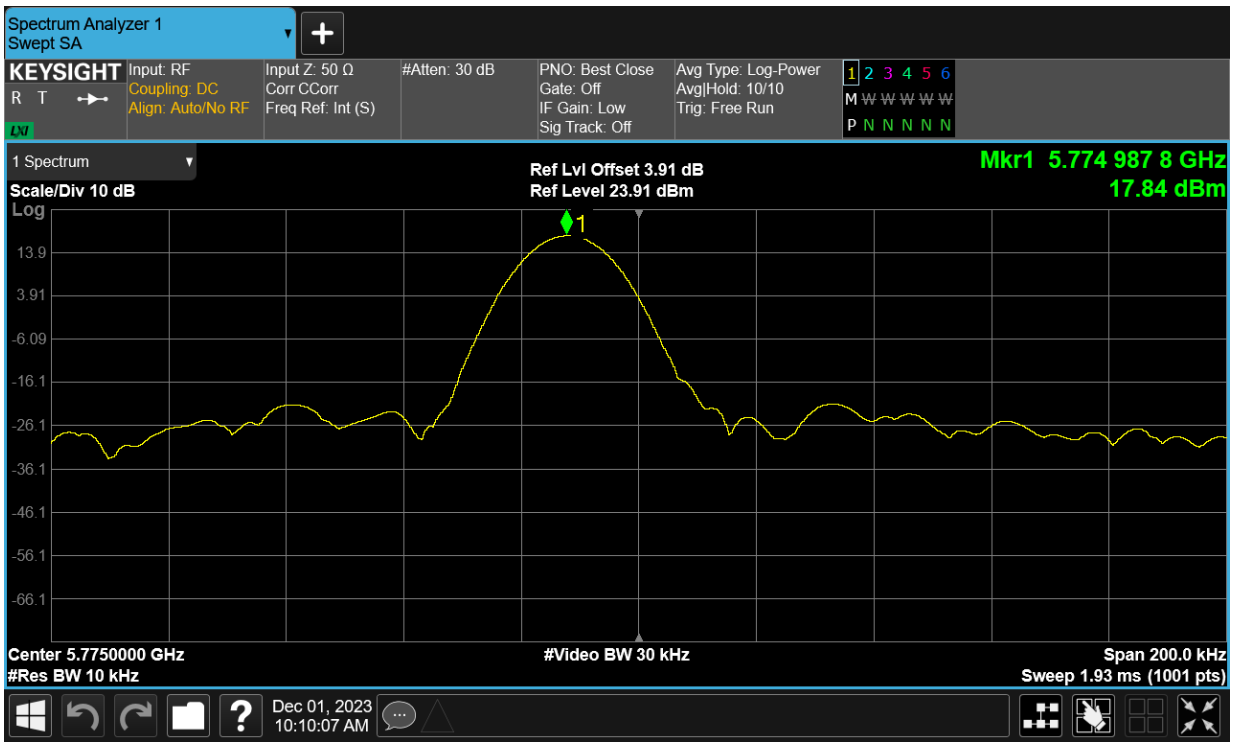
Freq. Stability HVNT ac80 5775MHz Ant14



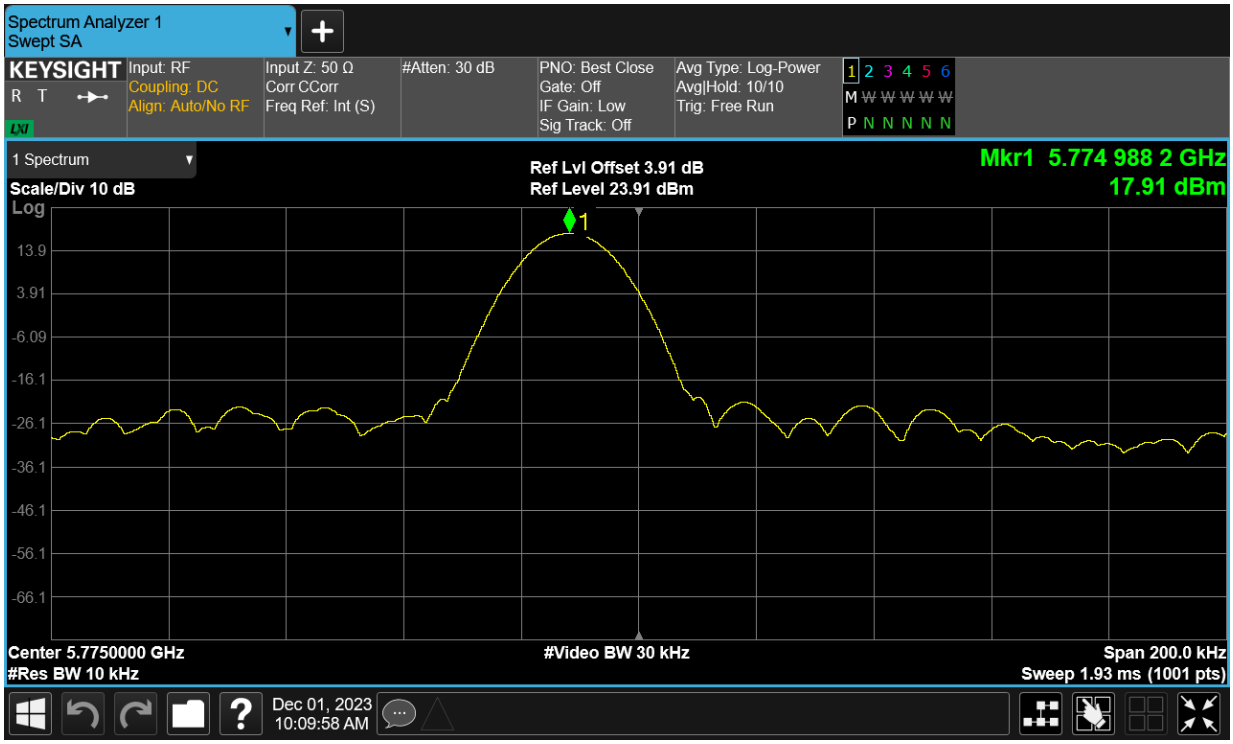
Freq. Stability LVNT ac80 5775MHz Ant14



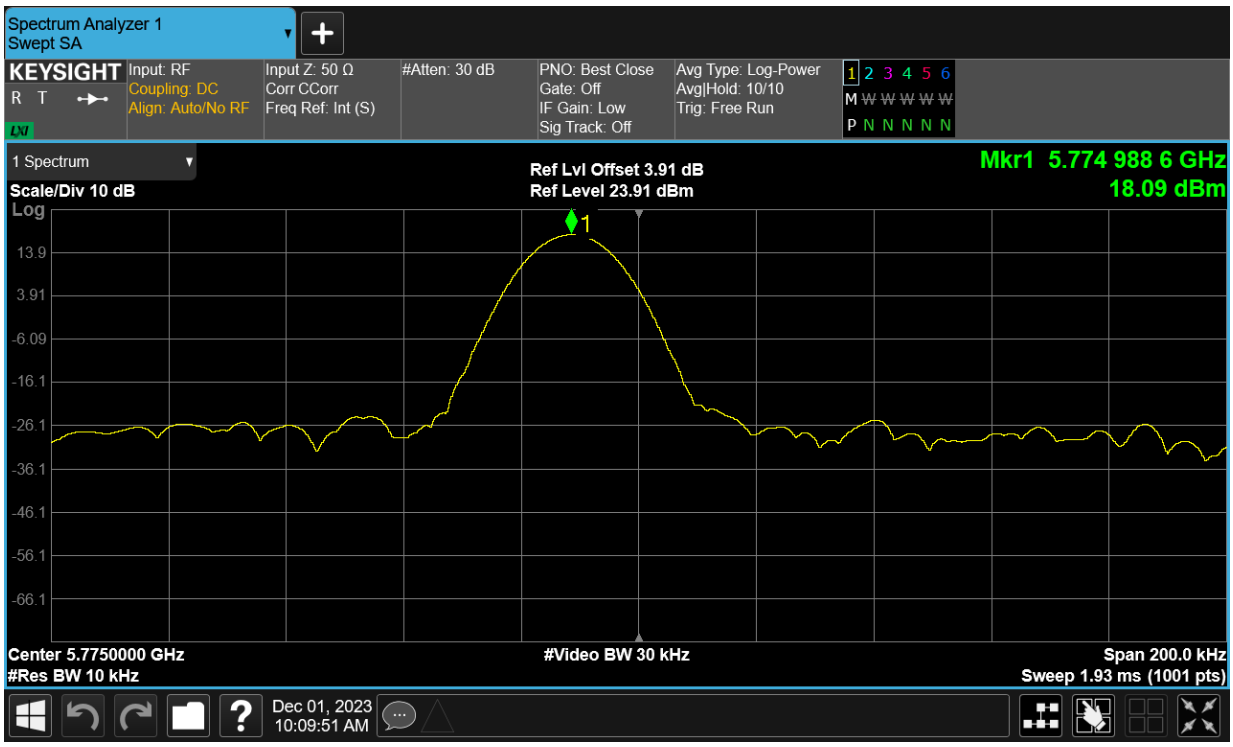
Freq. Stability NVHT ac80 5775MHz Ant14



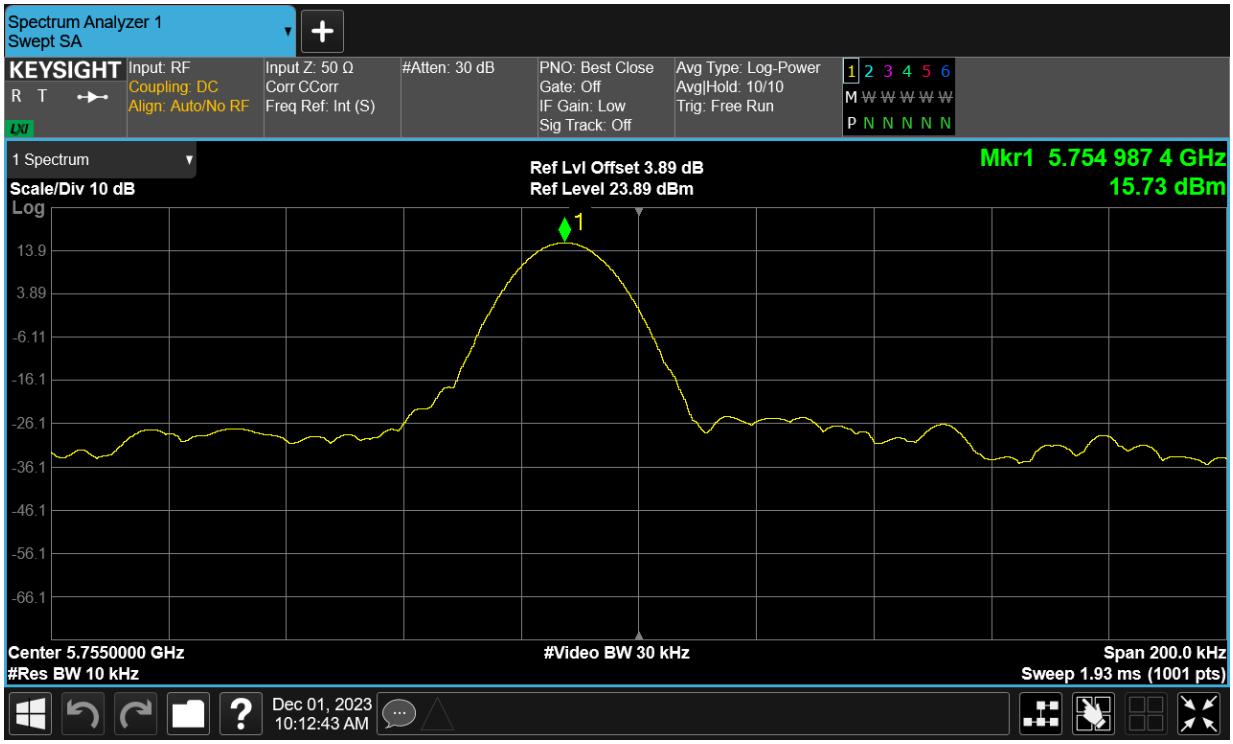
Freq. Stability NVLT ac80 5775MHz Ant14



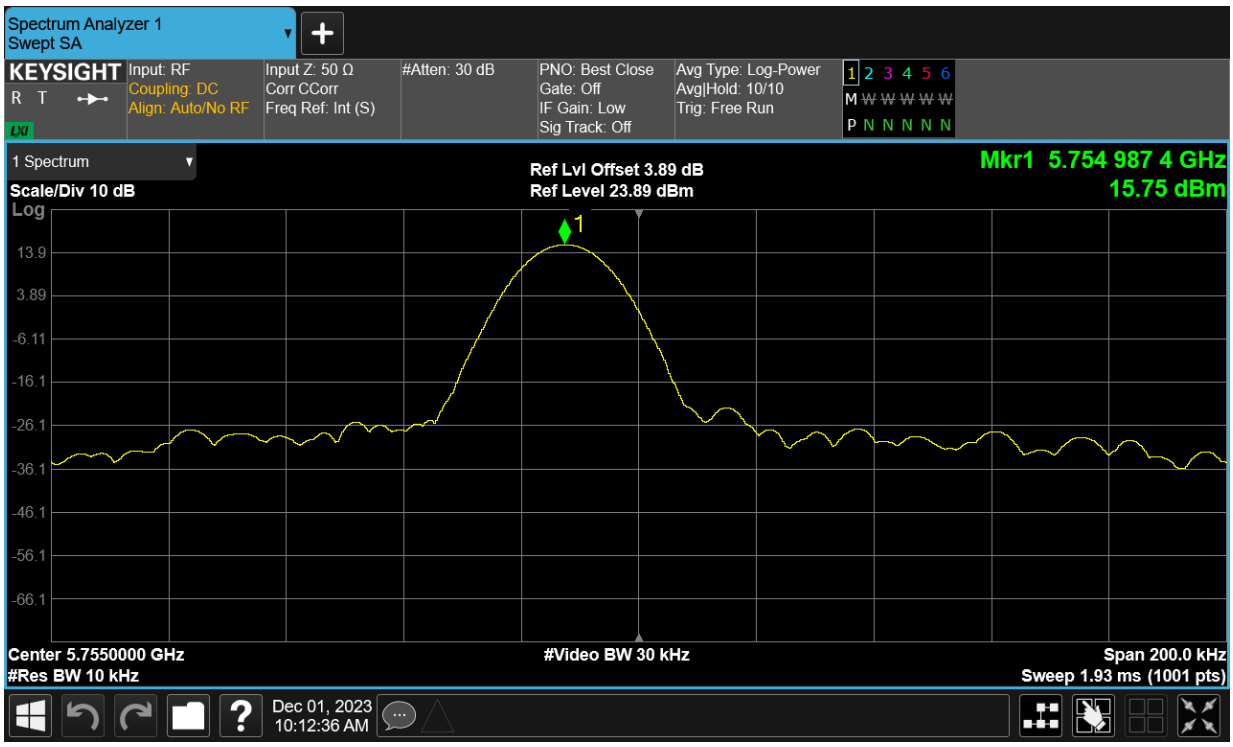
Freq. Stability NVNT ac80 5775MHz Ant14



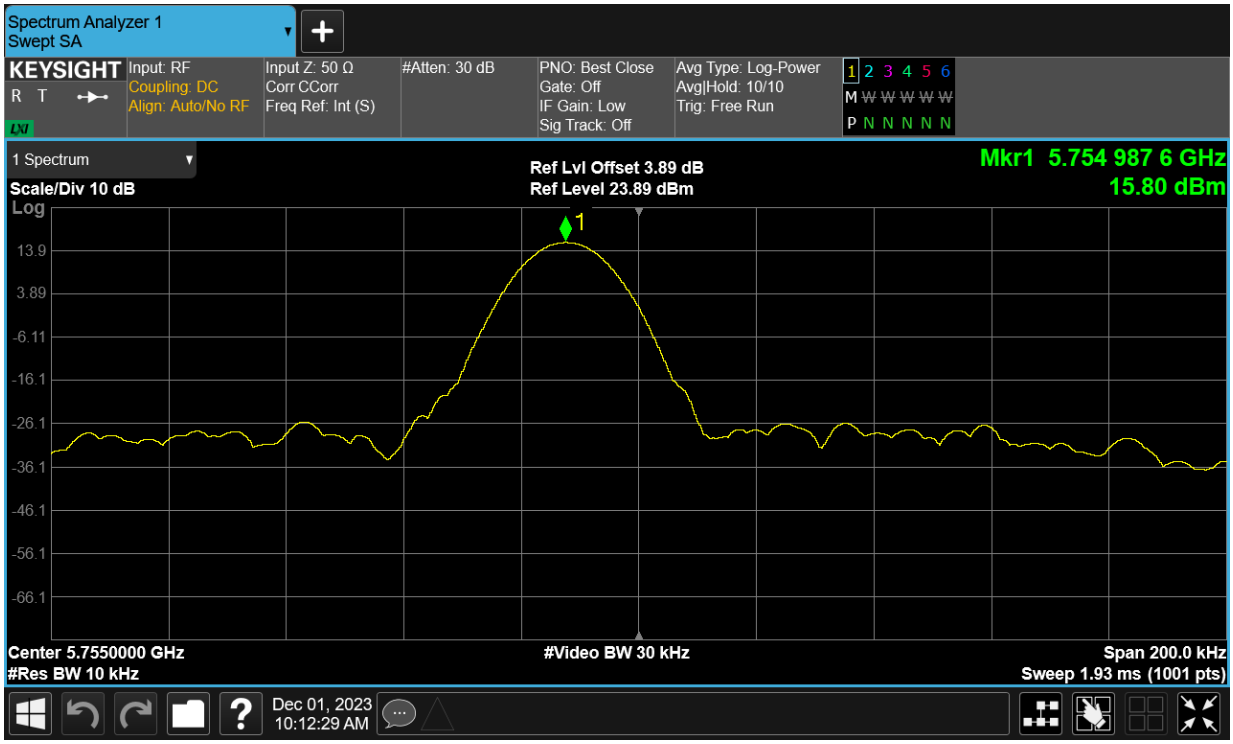
Freq. Stability HVNT n40 5755MHz Ant14



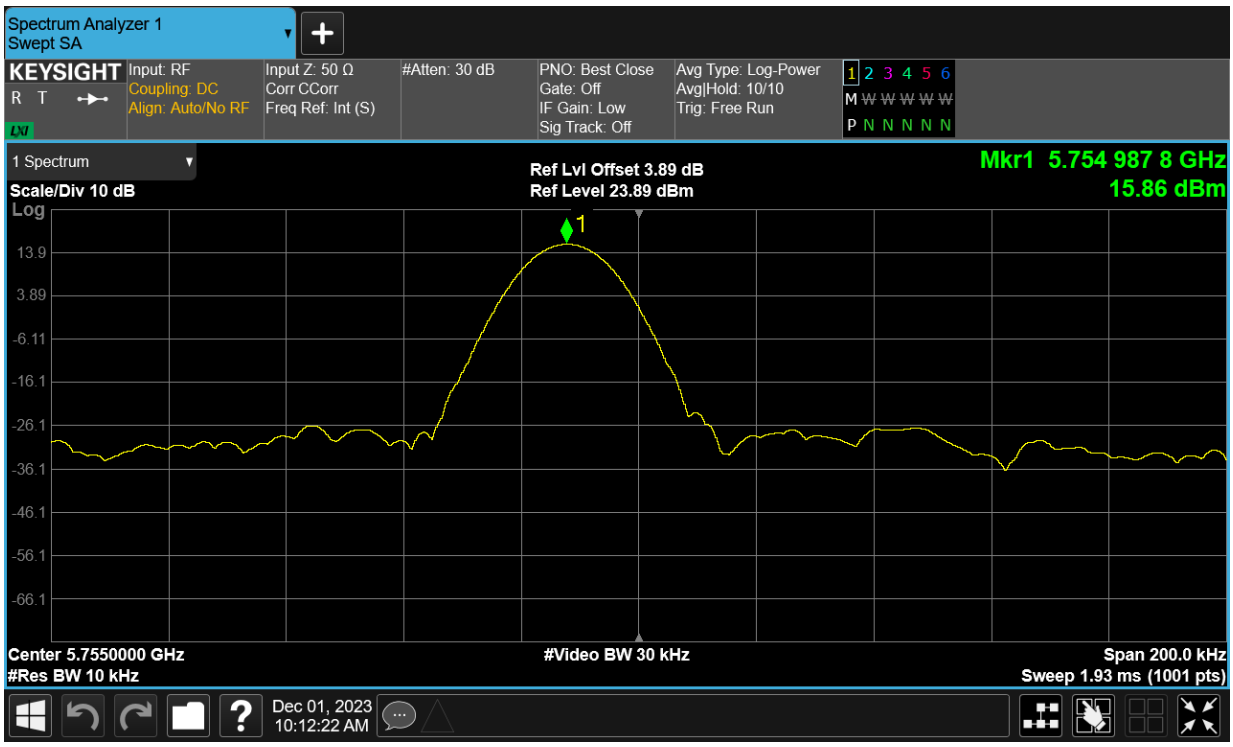
Freq. Stability LVNT n40 5755MHz Ant14



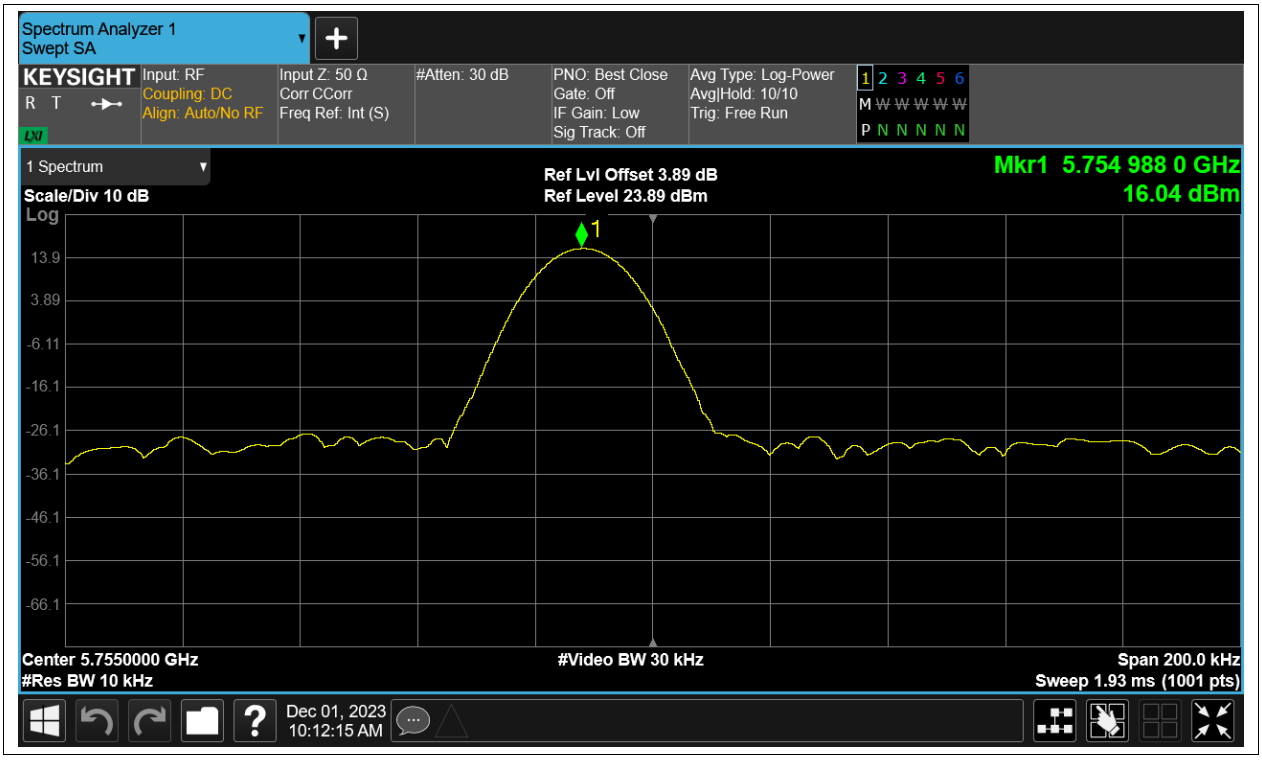
Freq. Stability NVHT n40 5755MHz Ant14



Freq. Stability NVLT n40 5755MHz Ant14



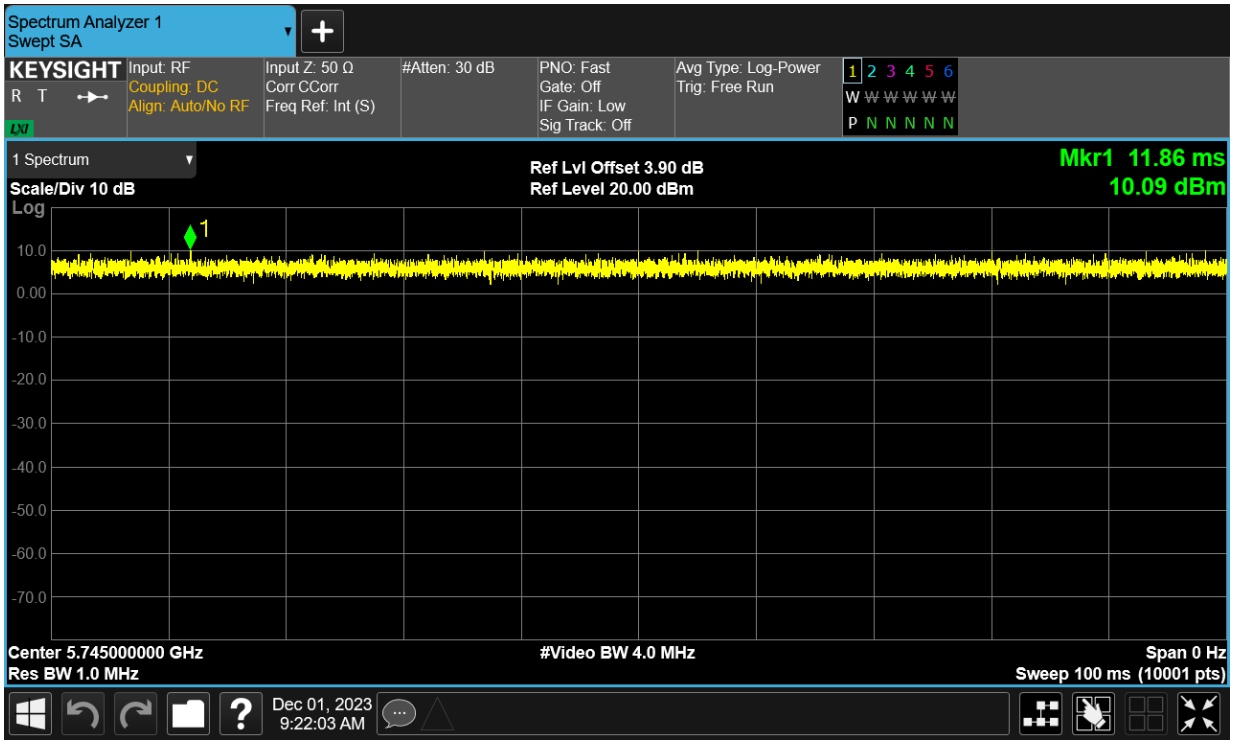
Freq. Stability NVNT n40 5755MHz Ant14


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto/No RF
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Best Close
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 3.89 dB
Ref Level 23.89 dBm
Mkr1 5.754 988 0 GHz
16.04 dBm
Log
13.9
3.89
-6.11
-16.1
-26.1
-36.1
-46.1
-56.1
-66.1
Center 5.7550000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 200.0 kHz
Sweep 1.93 ms (1001 pts)
Dec 01, 2023
10:12:15 AM

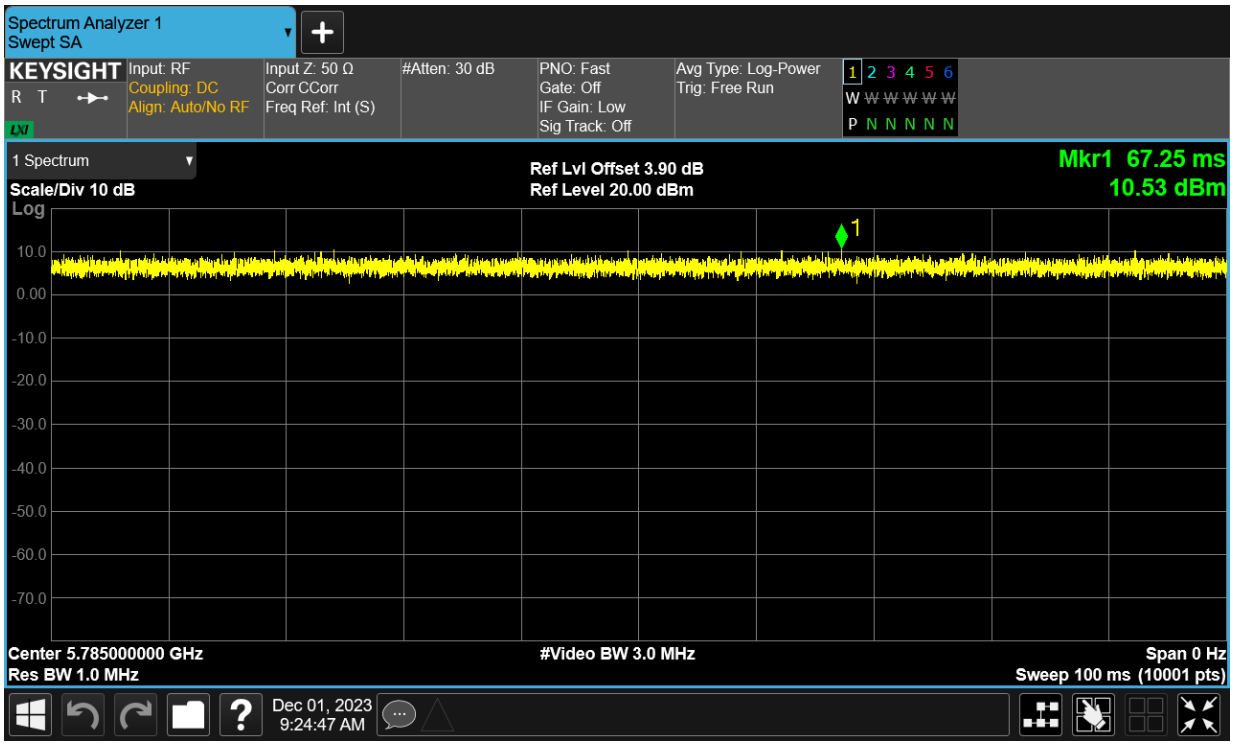
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant14	100	0
NVNT	a	5785	Ant14	100	0
NVNT	a	5825	Ant14	100	0
NVNT	ac20	5745	Ant14	100	0
NVNT	ac20	5785	Ant14	100	0
NVNT	ac20	5825	Ant14	100	0
NVNT	ac40	5755	Ant14	100	0
NVNT	ac40	5795	Ant14	100	0
NVNT	ac80	5775	Ant14	100	0
NVNT	n20	5745	Ant14	100	0
NVNT	n20	5785	Ant14	100	0
NVNT	n20	5825	Ant14	100	0
NVNT	n40	5755	Ant14	100	0
NVNT	n40	5795	Ant14	100	0

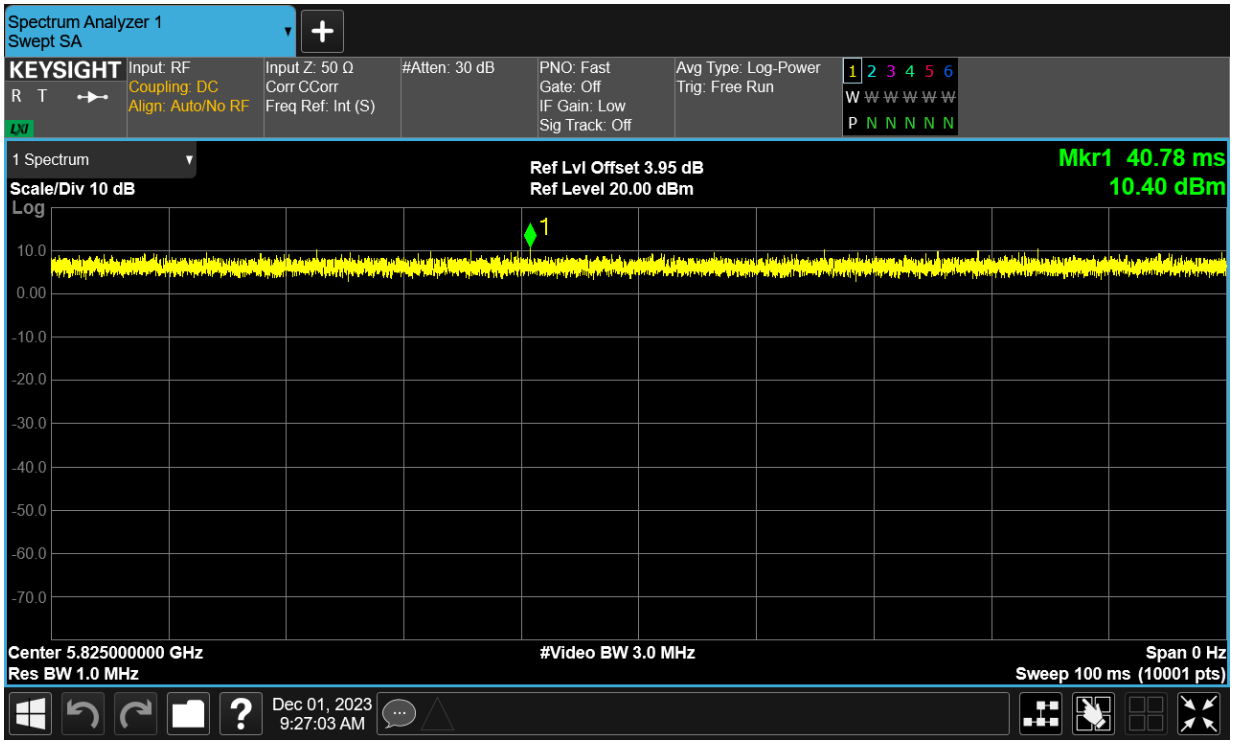
Test Graphs
Duty Cycle NVNT a 5745MHz Ant14



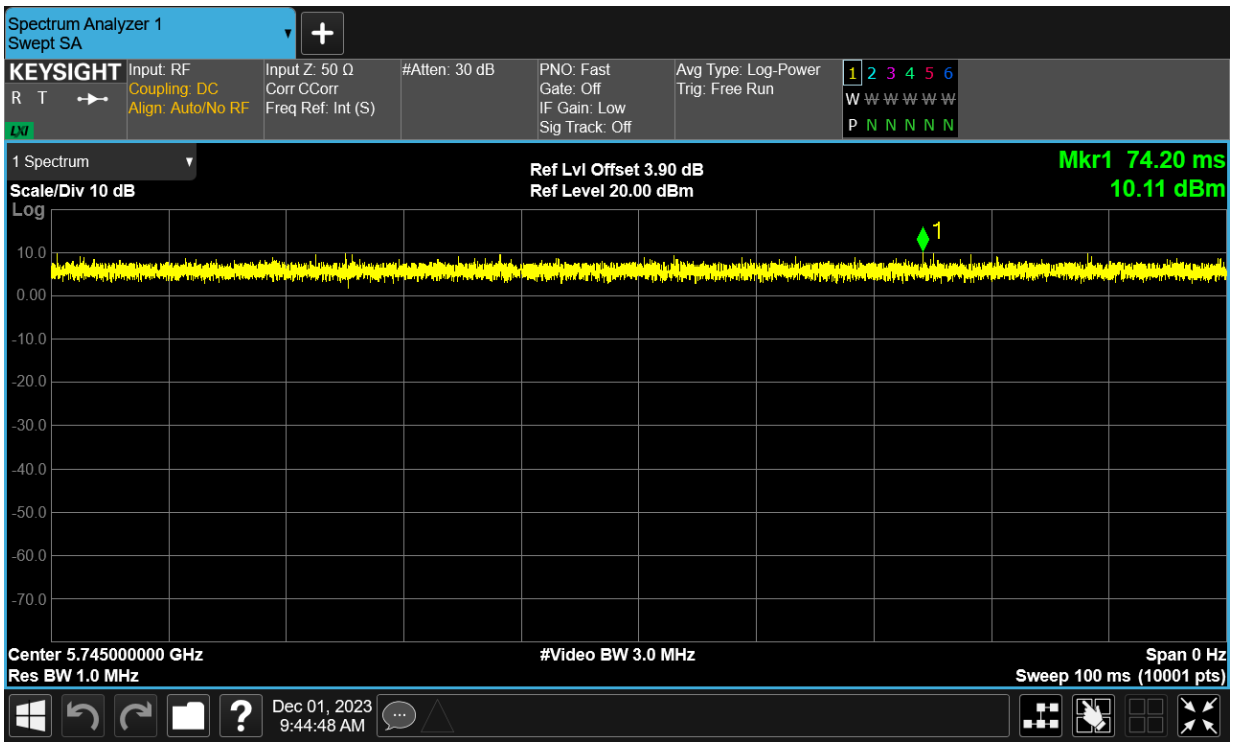
Duty Cycle NVNT a 5785MHz Ant14



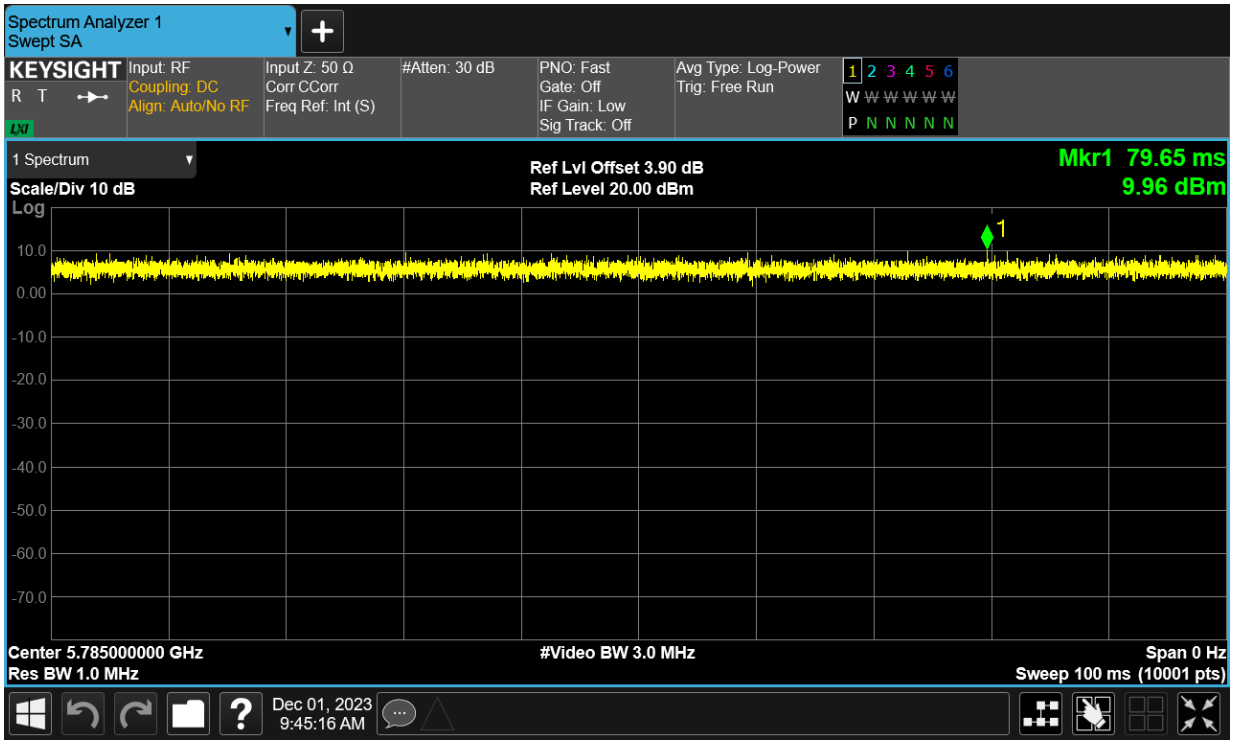
Duty Cycle NVNT a 5825MHz Ant14



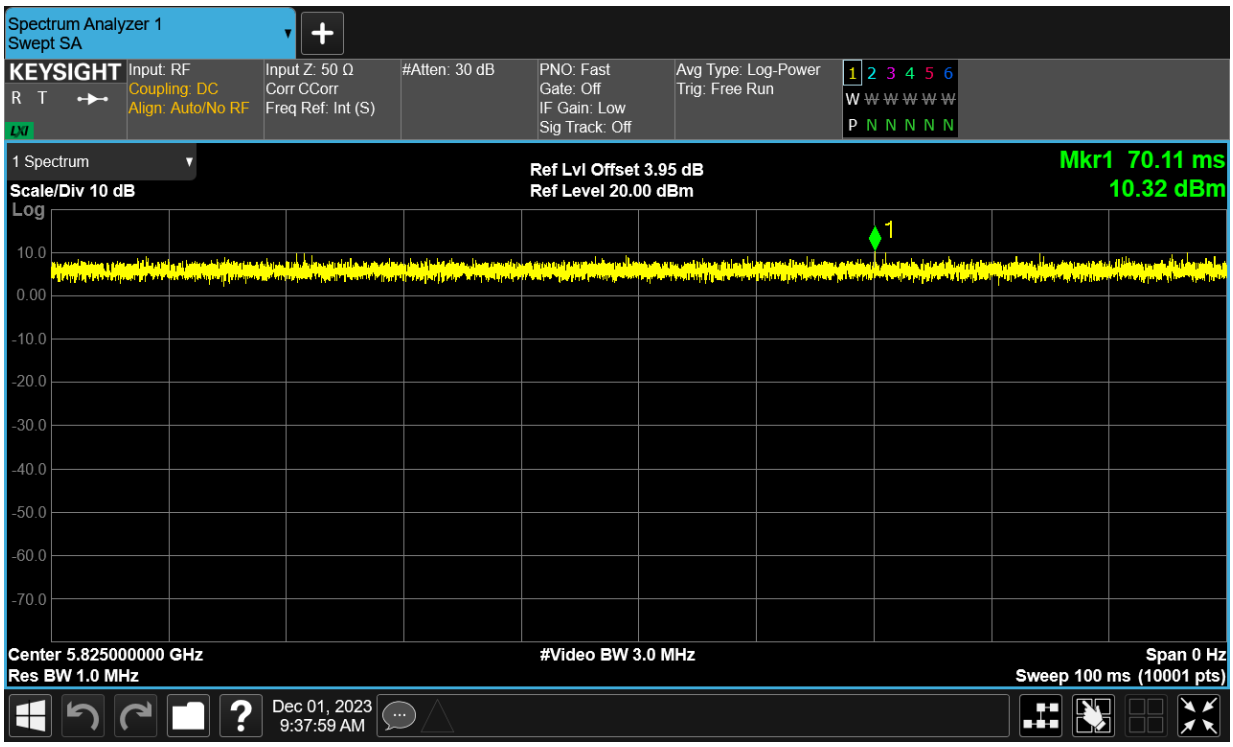
Duty Cycle NVNT ac20 5745MHz Ant14



Duty Cycle NVNT ac20 5785MHz Ant14

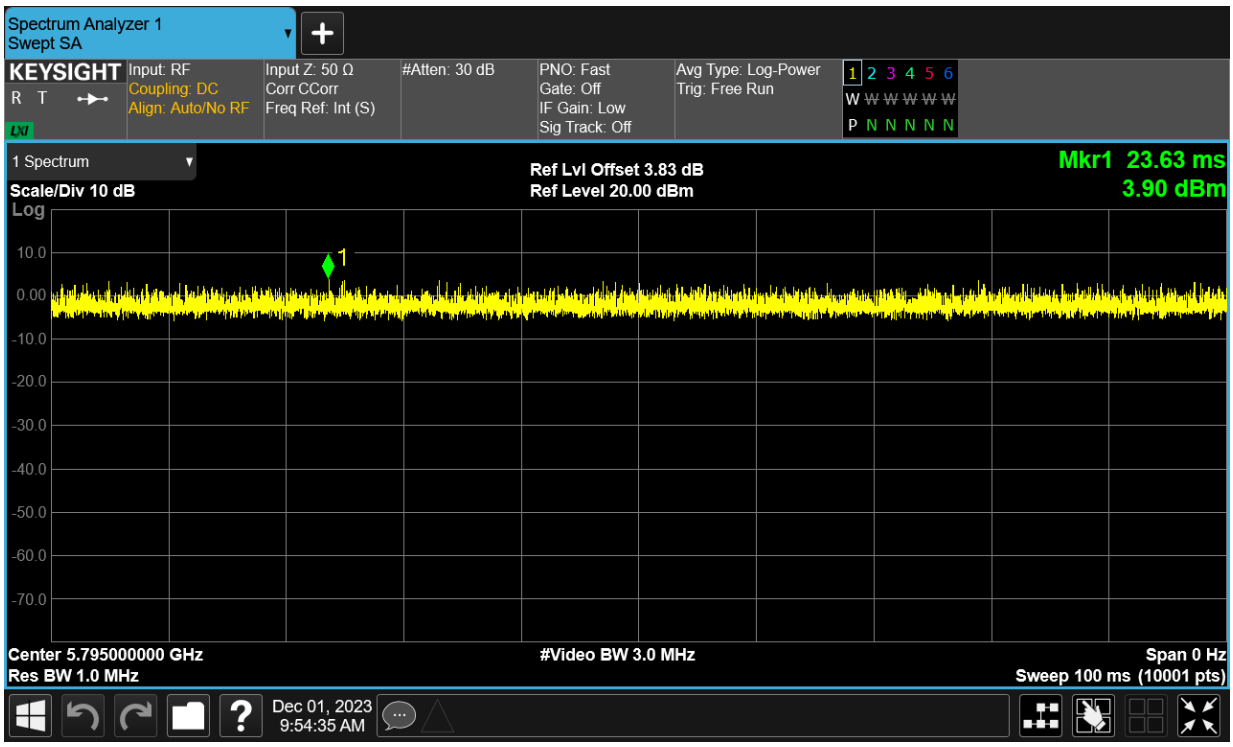


Duty Cycle NVNT ac20 5825MHz Ant14

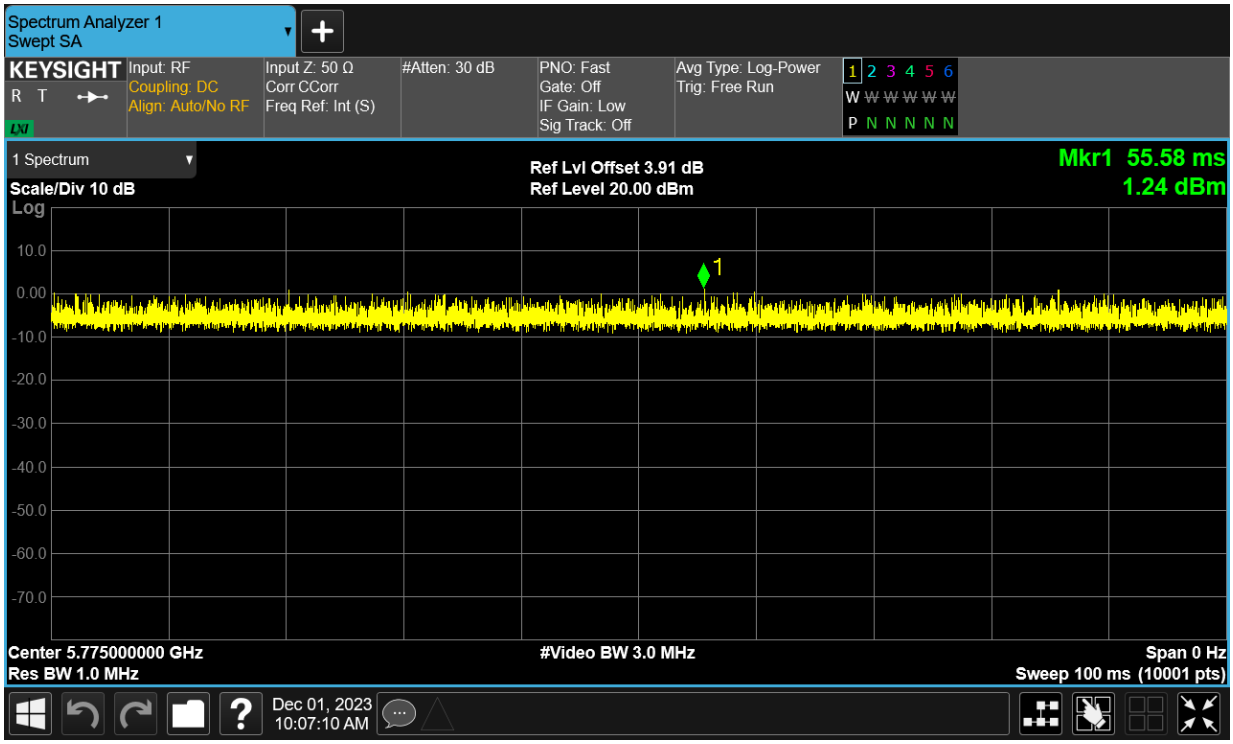


Duty Cycle NVNT ac40 5755MHz Ant14

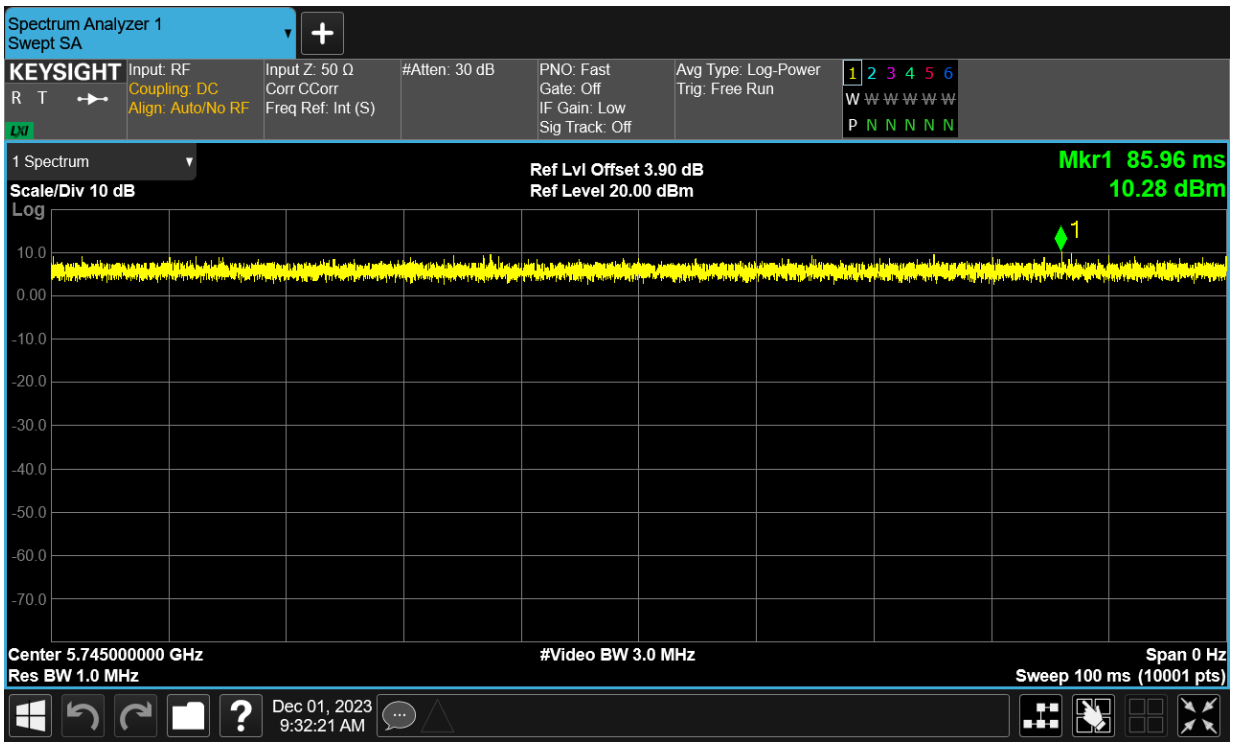
Duty Cycle NVNT ac40 5795MHz Ant14



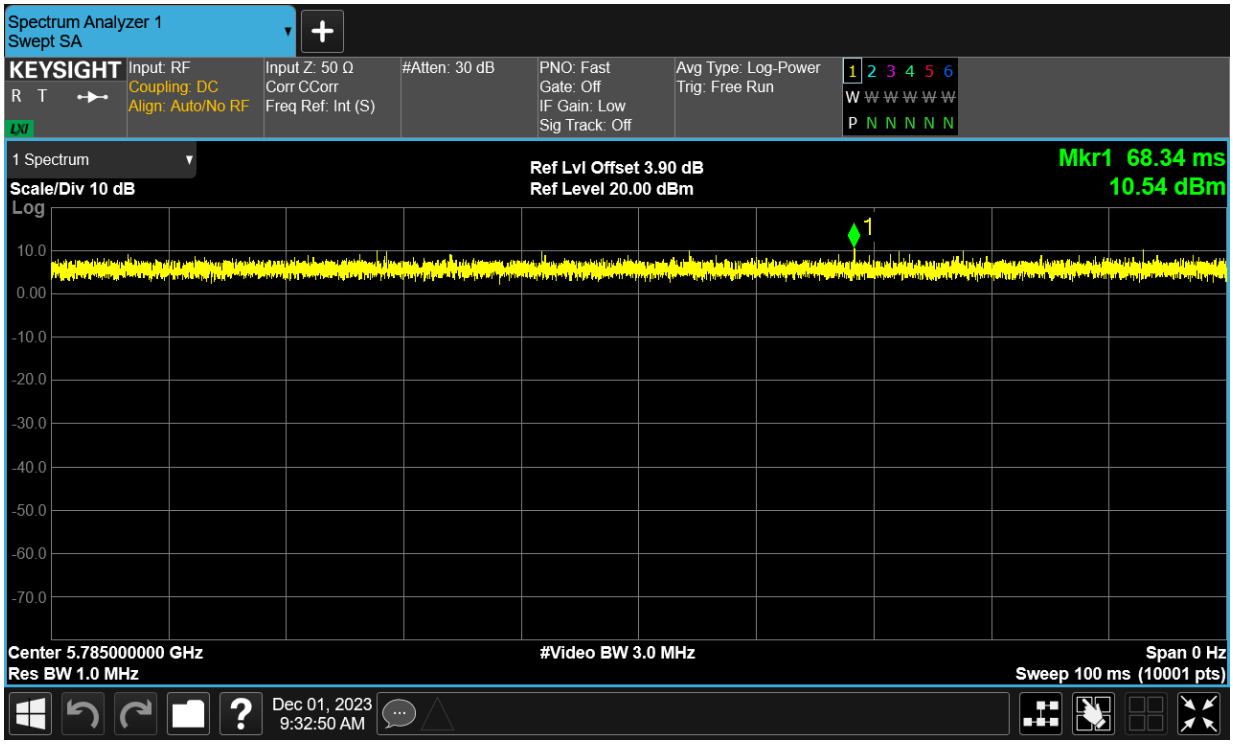
Duty Cycle NVNT ac80 5775MHz Ant14



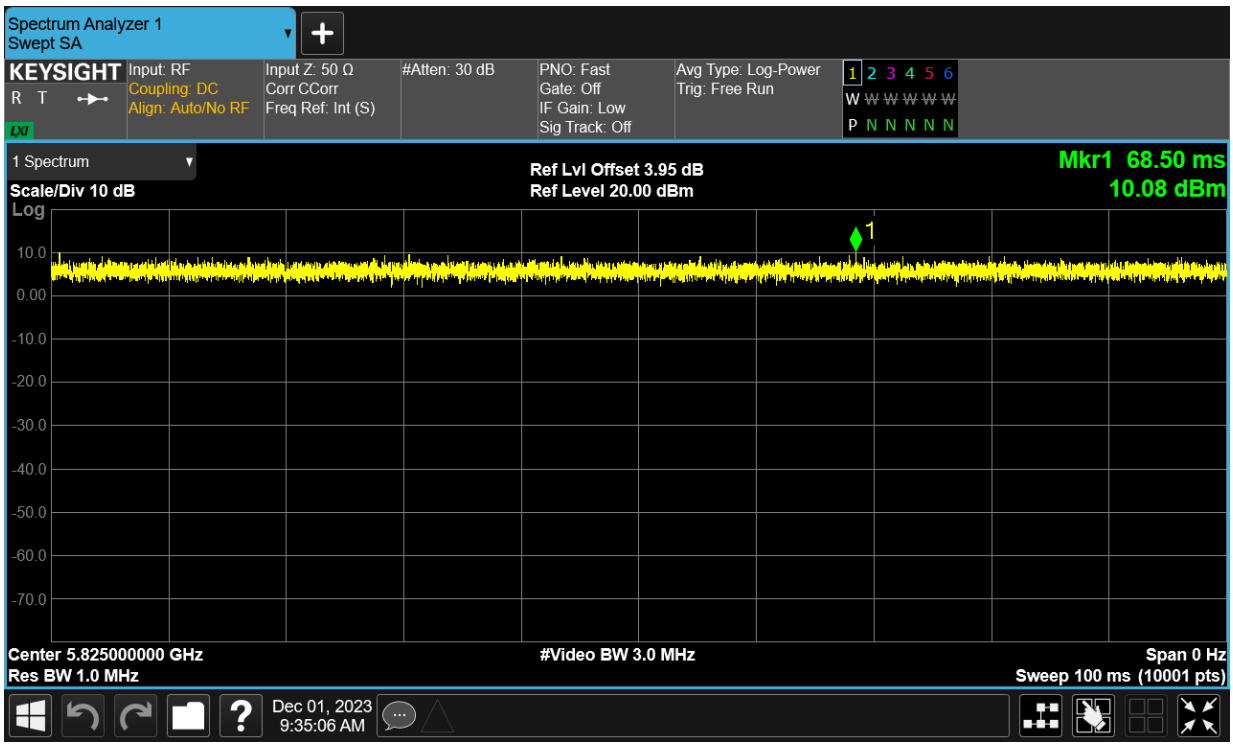
Duty Cycle NVNT n20 5745MHz Ant14



Duty Cycle NVNT n20 5785MHz Ant14

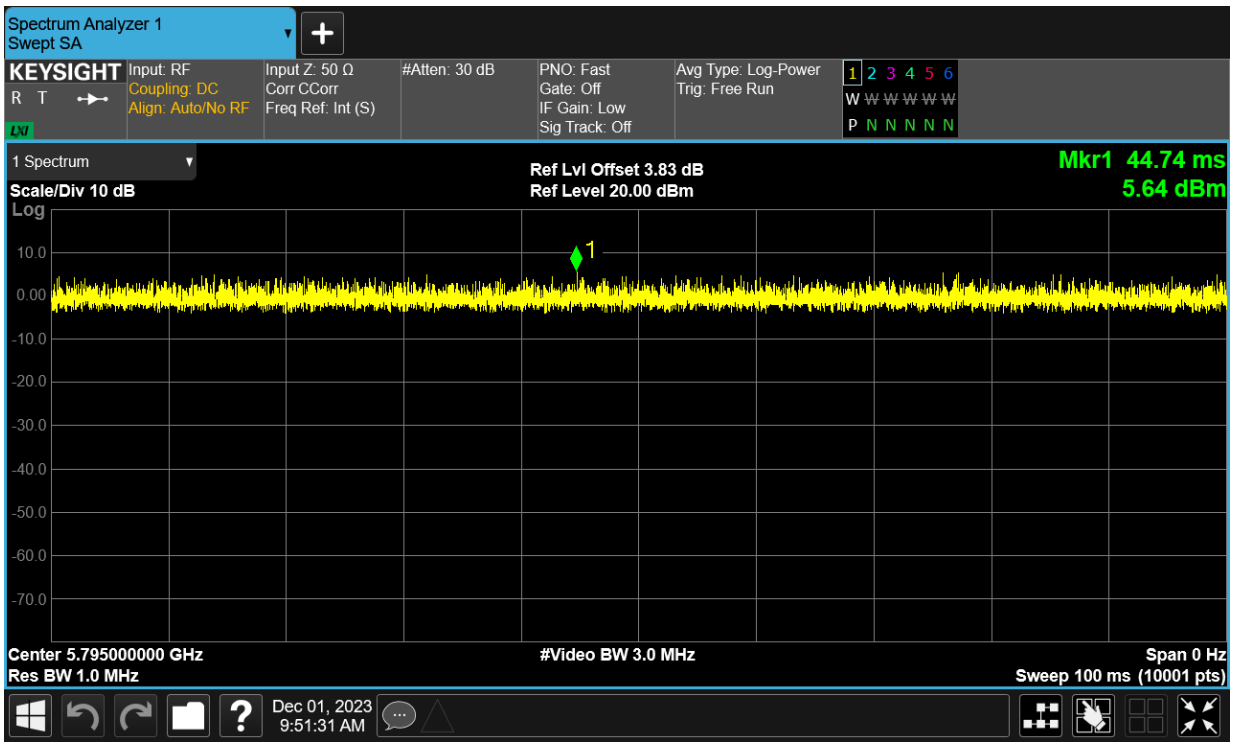


Duty Cycle NVNT n20 5825MHz Ant14



Duty Cycle NVNT n40 5755MHz Ant14

Duty Cycle NVNT n40 5795MHz Ant14



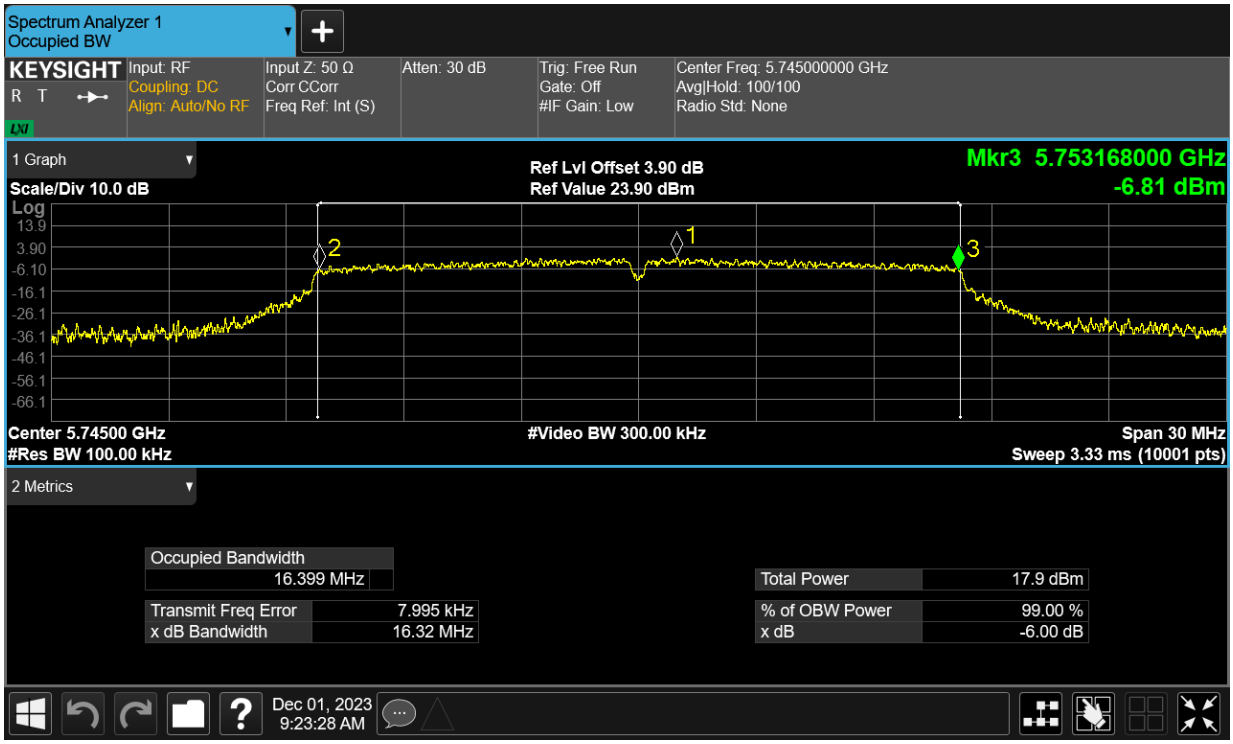
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant14	12.44	0	12.44	30	Pass
NVNT	a	5785	Ant14	13.56	0	13.56	30	Pass
NVNT	a	5825	Ant14	13.11	0	13.11	30	Pass
NVNT	ac20	5745	Ant14	12.36	0	12.36	30	Pass
NVNT	ac20	5785	Ant14	13.26	0	13.26	30	Pass
NVNT	ac20	5825	Ant14	12.78	0	12.78	30	Pass
NVNT	ac40	5755	Ant14	11.32	0	11.32	30	Pass
NVNT	ac40	5795	Ant14	11.32	0	11.32	30	Pass
NVNT	ac80	5775	Ant14	11.28	0	11.28	30	Pass
NVNT	n20	5745	Ant14	12.32	0	12.32	30	Pass
NVNT	n20	5785	Ant14	13.18	0	13.18	30	Pass
NVNT	n20	5825	Ant14	12.83	0	12.83	30	Pass
NVNT	n40	5755	Ant14	12.49	0	12.49	30	Pass
NVNT	n40	5795	Ant14	12.84	0	12.84	30	Pass

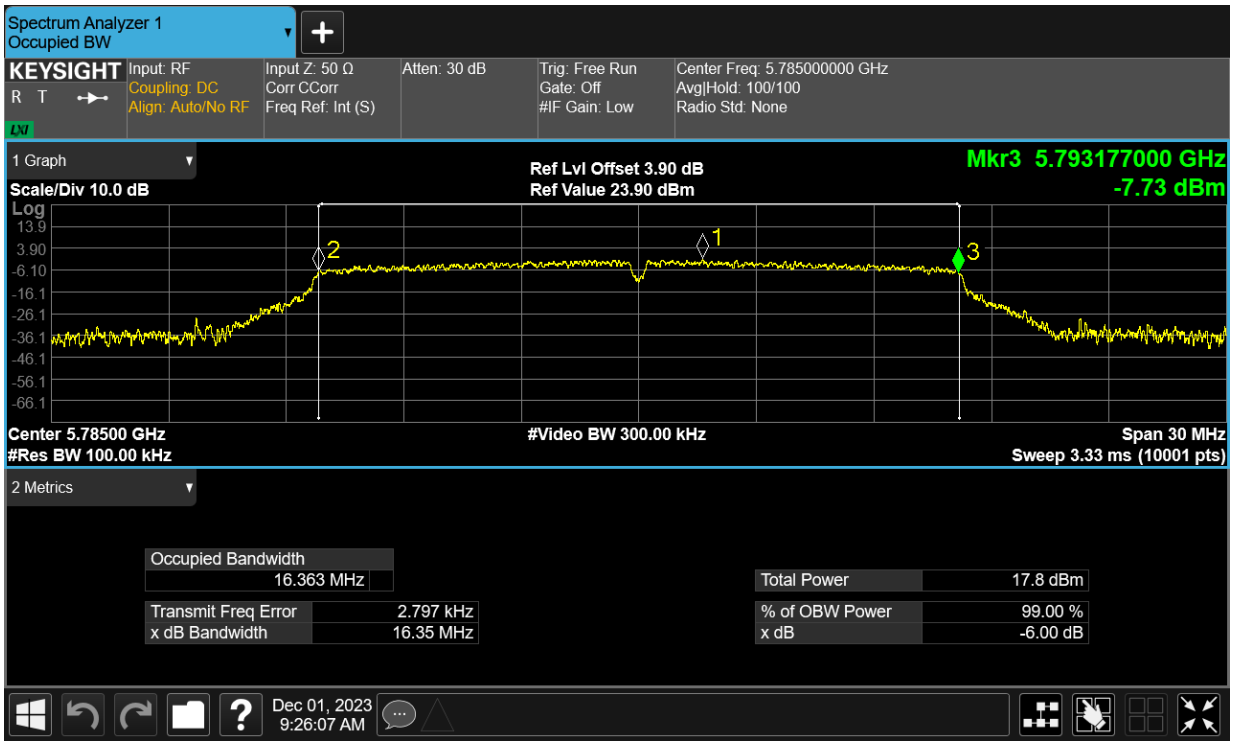
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	a	5745	Ant14	16.32	0.5	Pass
NVNT	a	5785	Ant14	16.348	0.5	Pass
NVNT	a	5825	Ant14	16.352	0.5	Pass
NVNT	ac20	5745	Ant14	17.562	0.5	Pass
NVNT	ac20	5785	Ant14	17.569	0.5	Pass
NVNT	ac20	5825	Ant14	17.337	0.5	Pass
NVNT	ac40	5755	Ant14	36.035	0.5	Pass
NVNT	ac40	5795	Ant14	35.796	0.5	Pass
NVNT	ac80	5775	Ant14	75.019	0.5	Pass
NVNT	n20	5745	Ant14	17.602	0.5	Pass
NVNT	n20	5785	Ant14	17.576	0.5	Pass
NVNT	n20	5825	Ant14	17.578	0.5	Pass
NVNT	n40	5755	Ant14	35.696	0.5	Pass
NVNT	n40	5795	Ant14	35.393	0.5	Pass

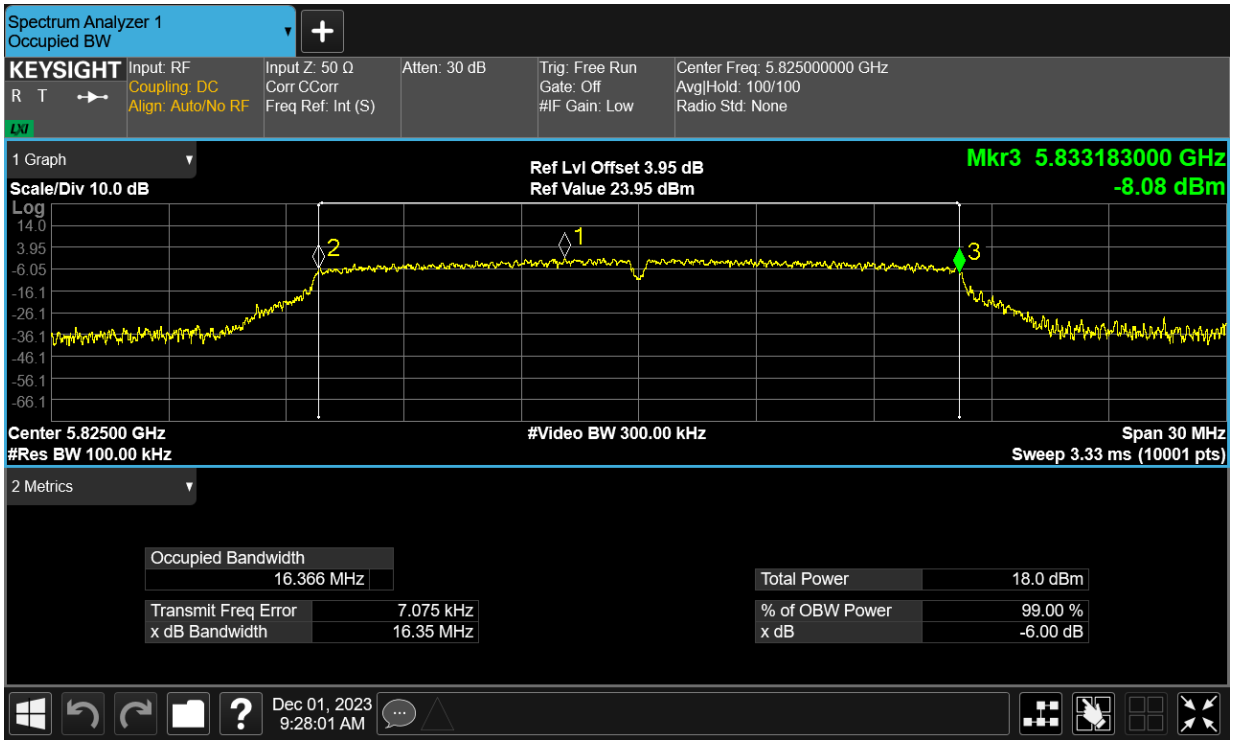
Test Graphs
-6dB Bandwidth NVNT a 5745MHz Ant14



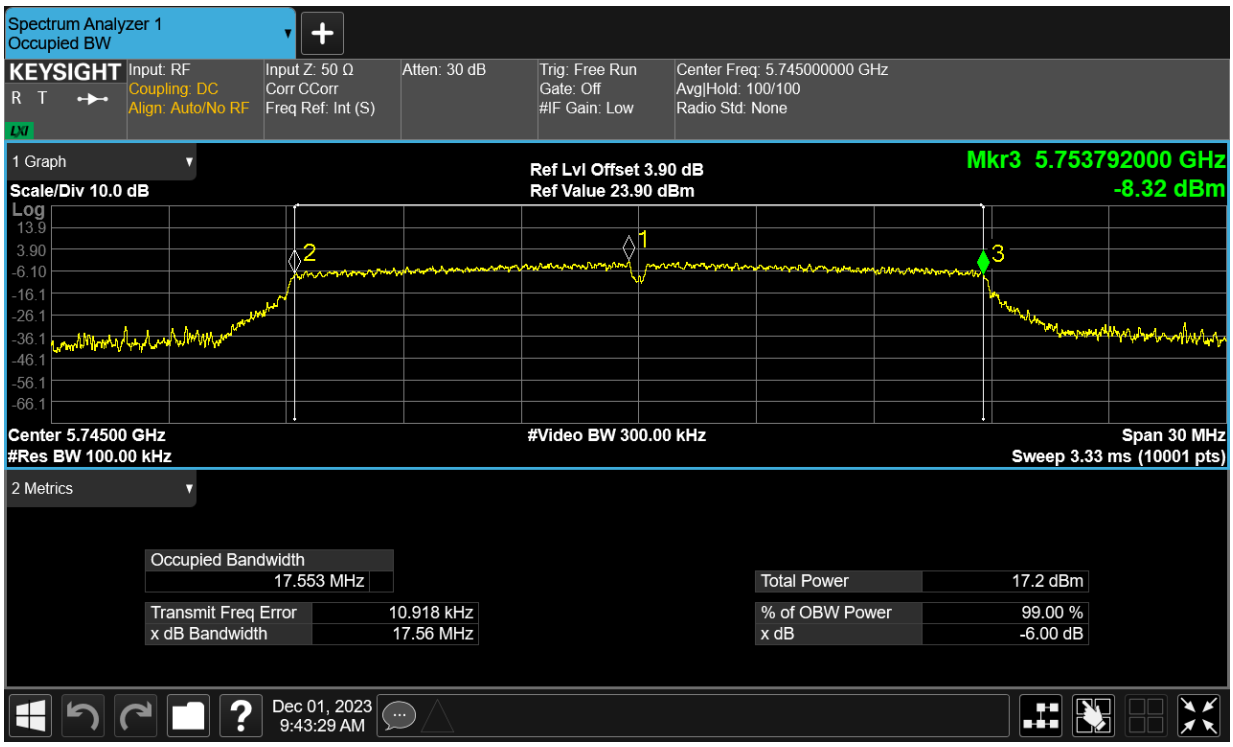
-6dB Bandwidth NVNT a 5785MHz Ant14



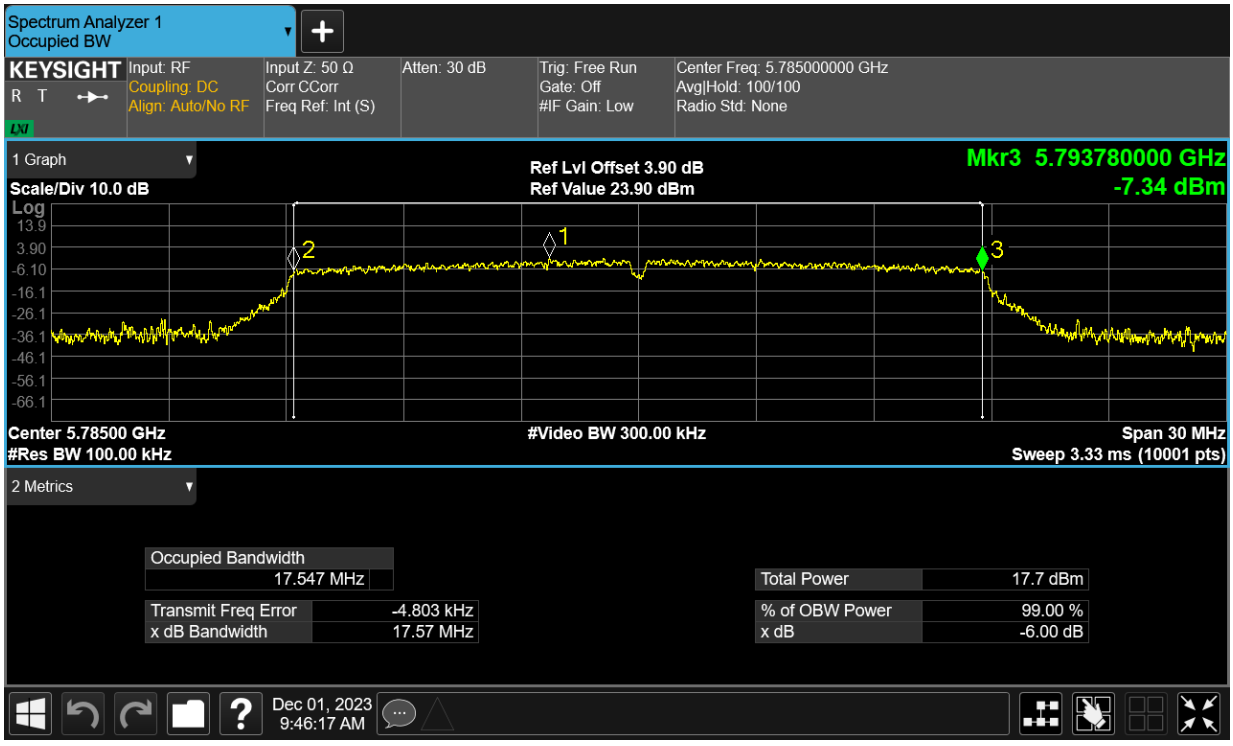
-6dB Bandwidth NVNT a 5825MHz Ant14



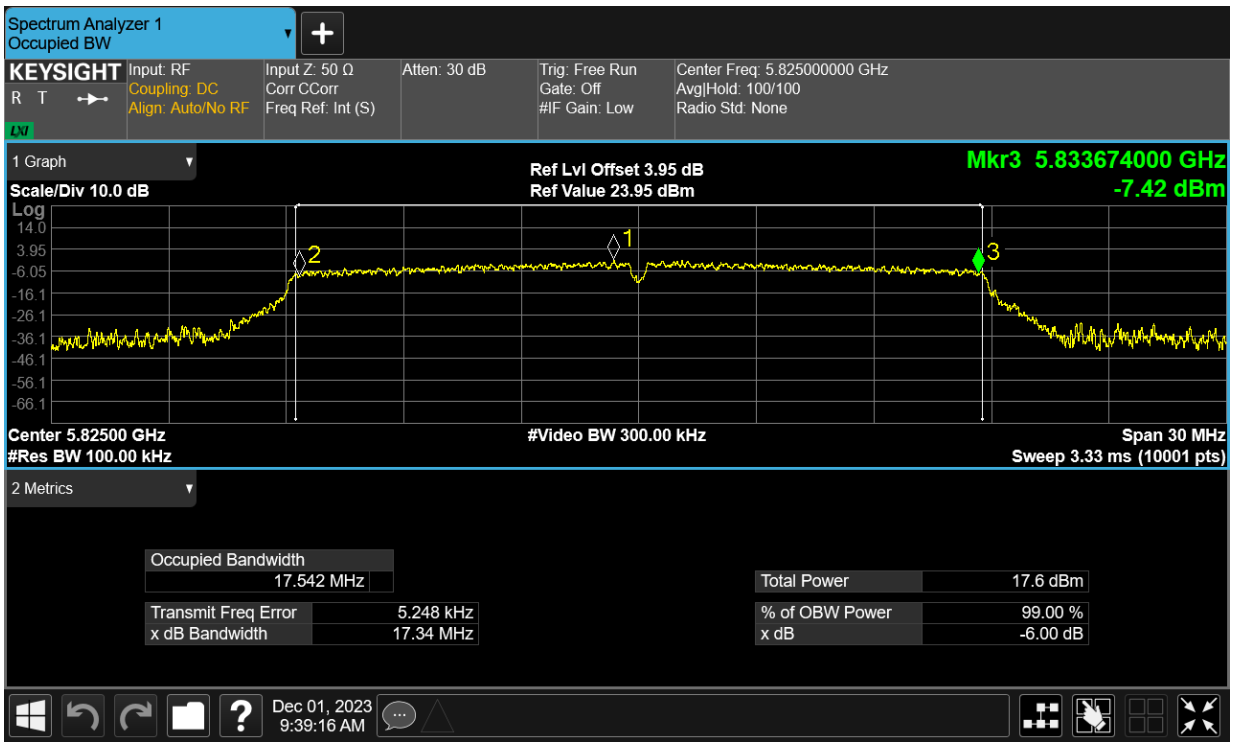
-6dB Bandwidth NVNT ac20 5745MHz Ant14



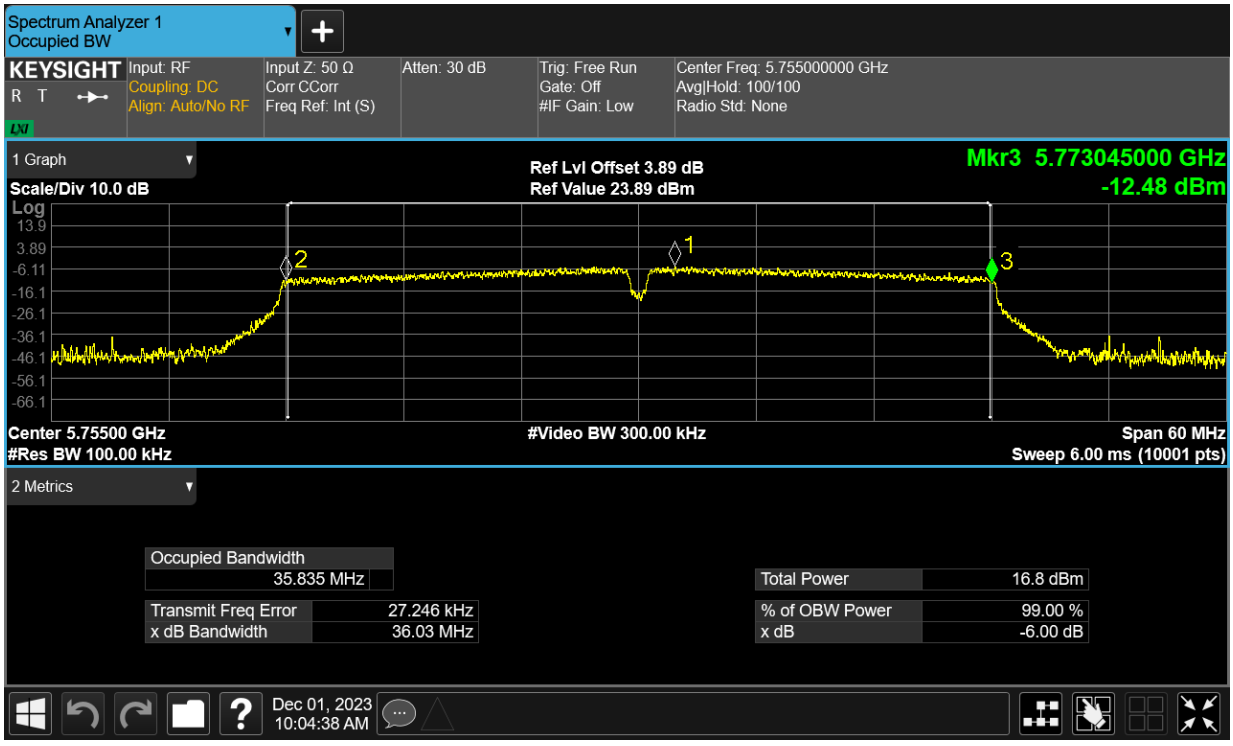
-6dB Bandwidth NVNT ac20 5785MHz Ant14



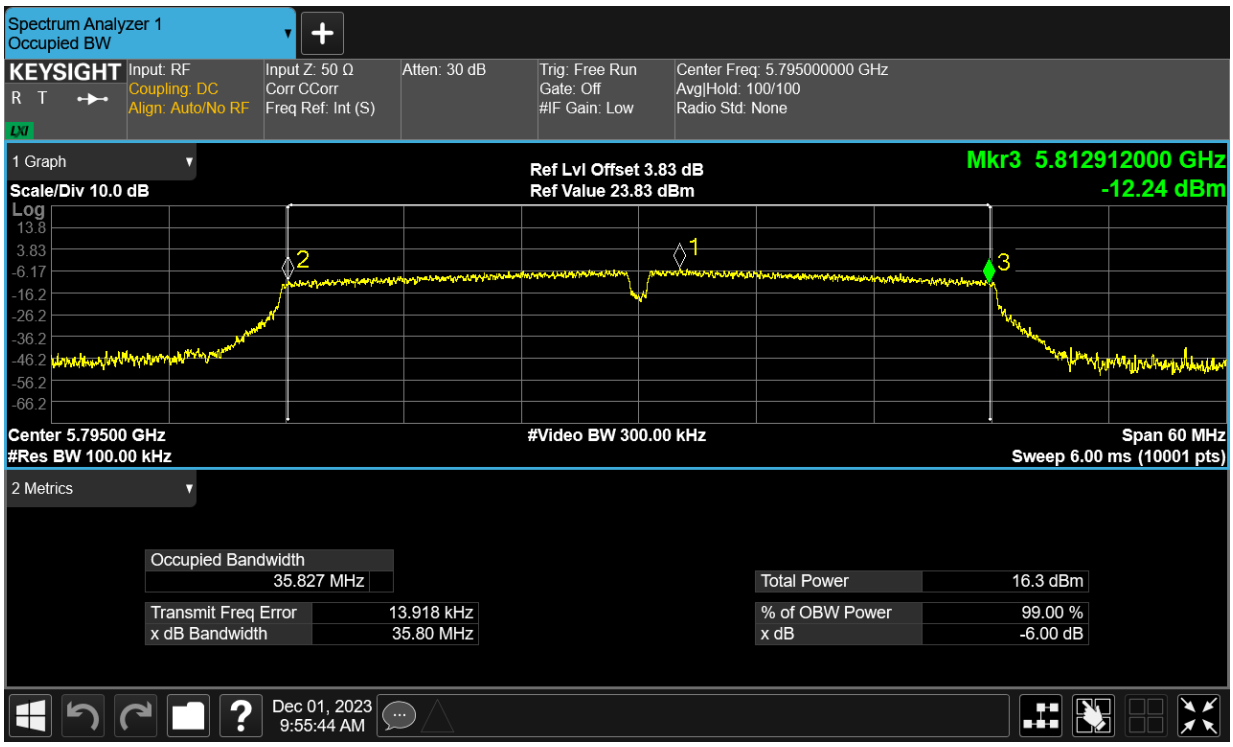
-6dB Bandwidth NVNT ac20 5825MHz Ant14



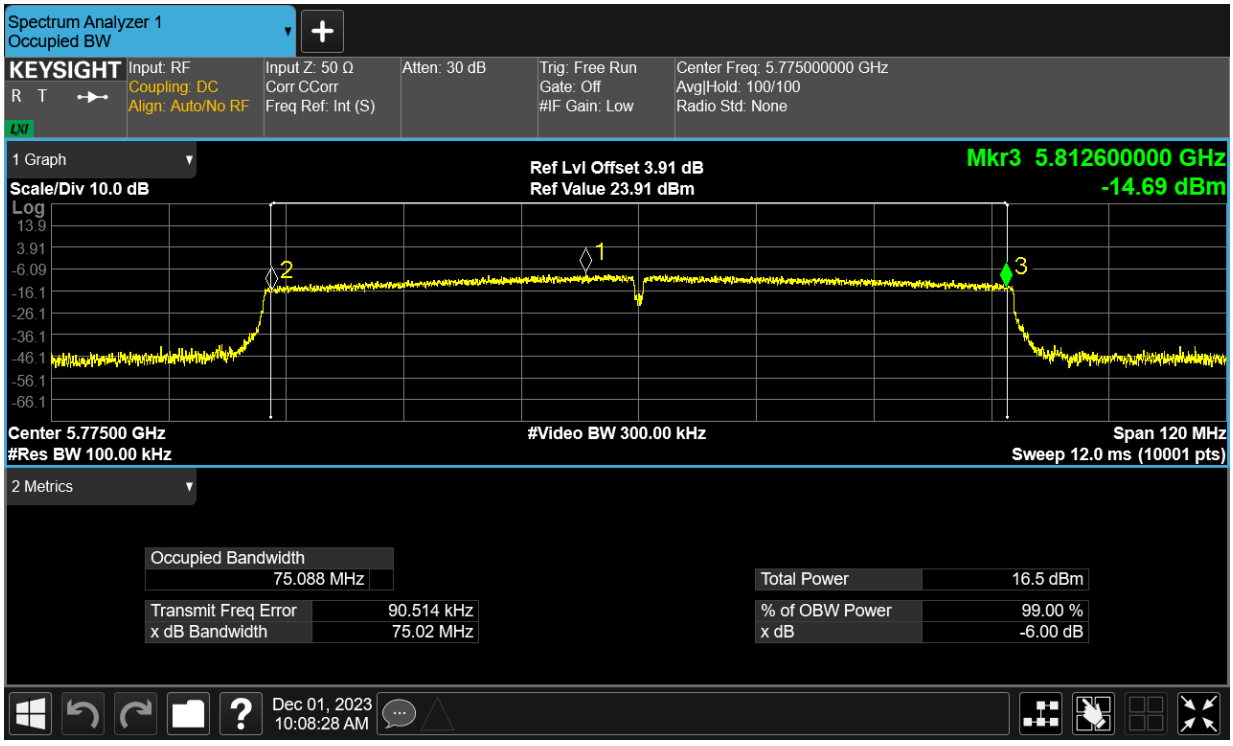
-6dB Bandwidth NVNT ac40 5755MHz Ant14



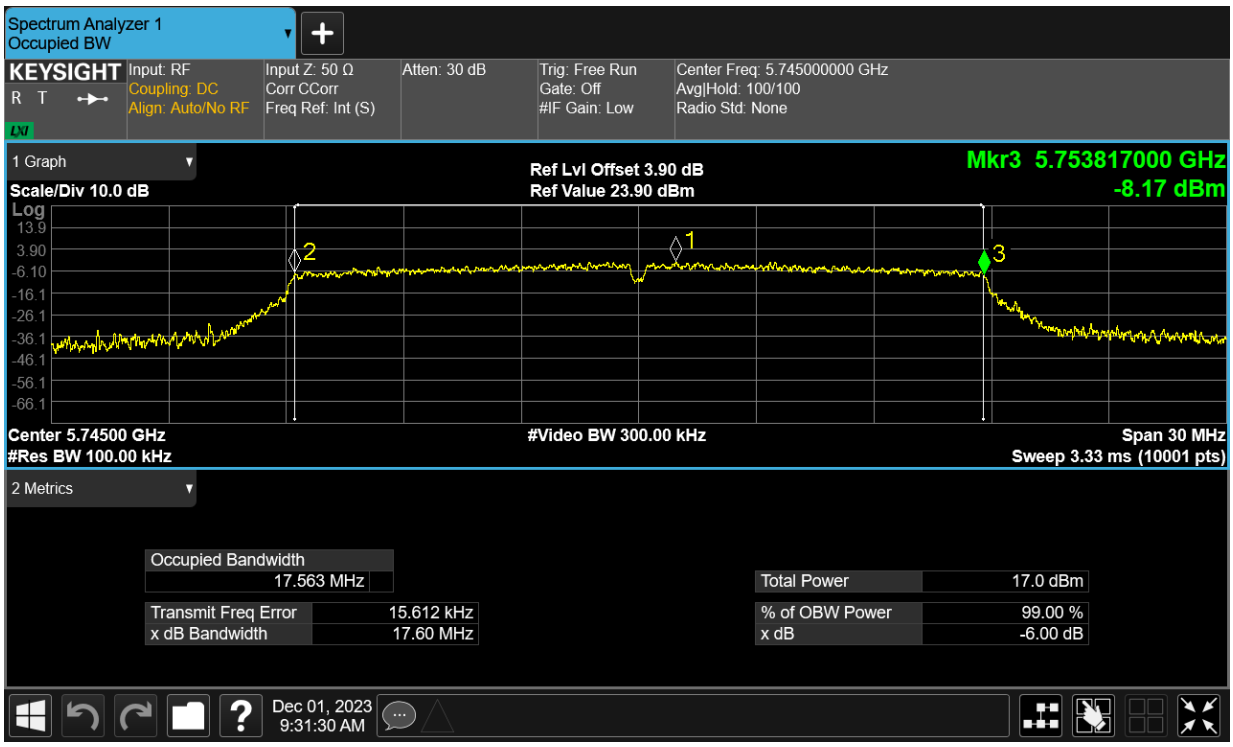
-6dB Bandwidth NVNT ac40 5795MHz Ant14



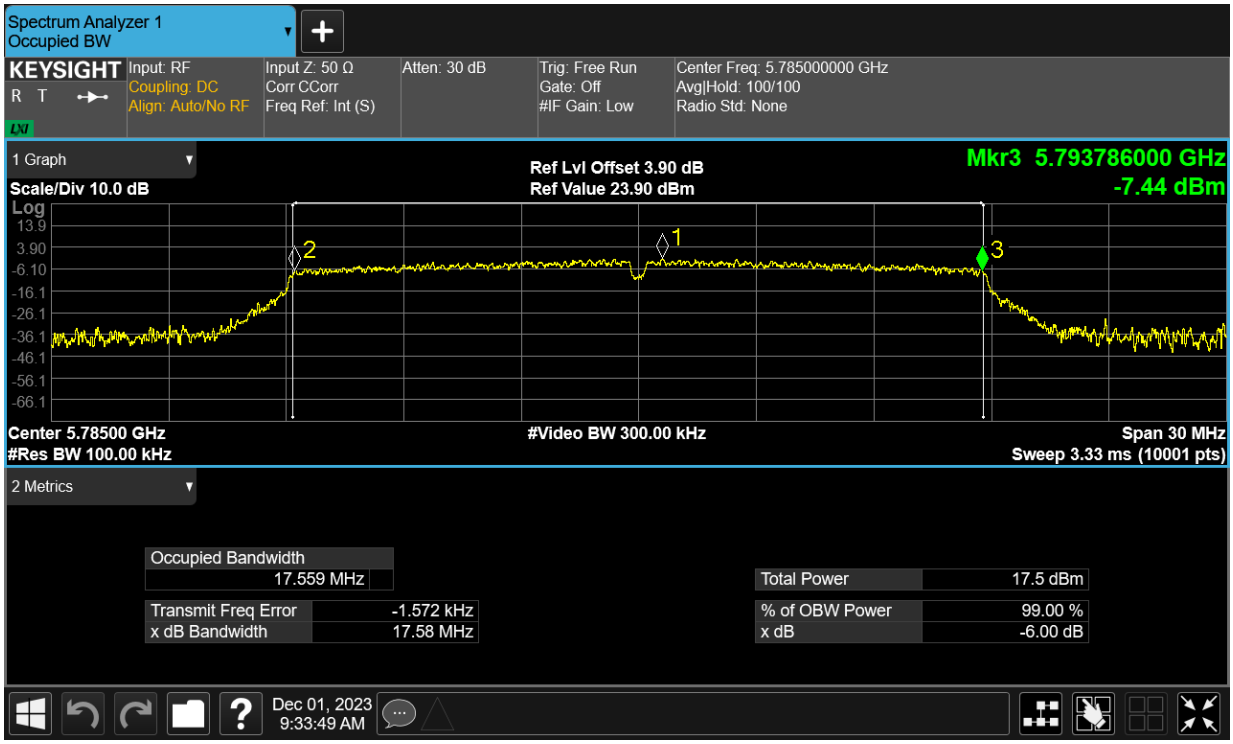
-6dB Bandwidth NVNT ac80 5775MHz Ant14



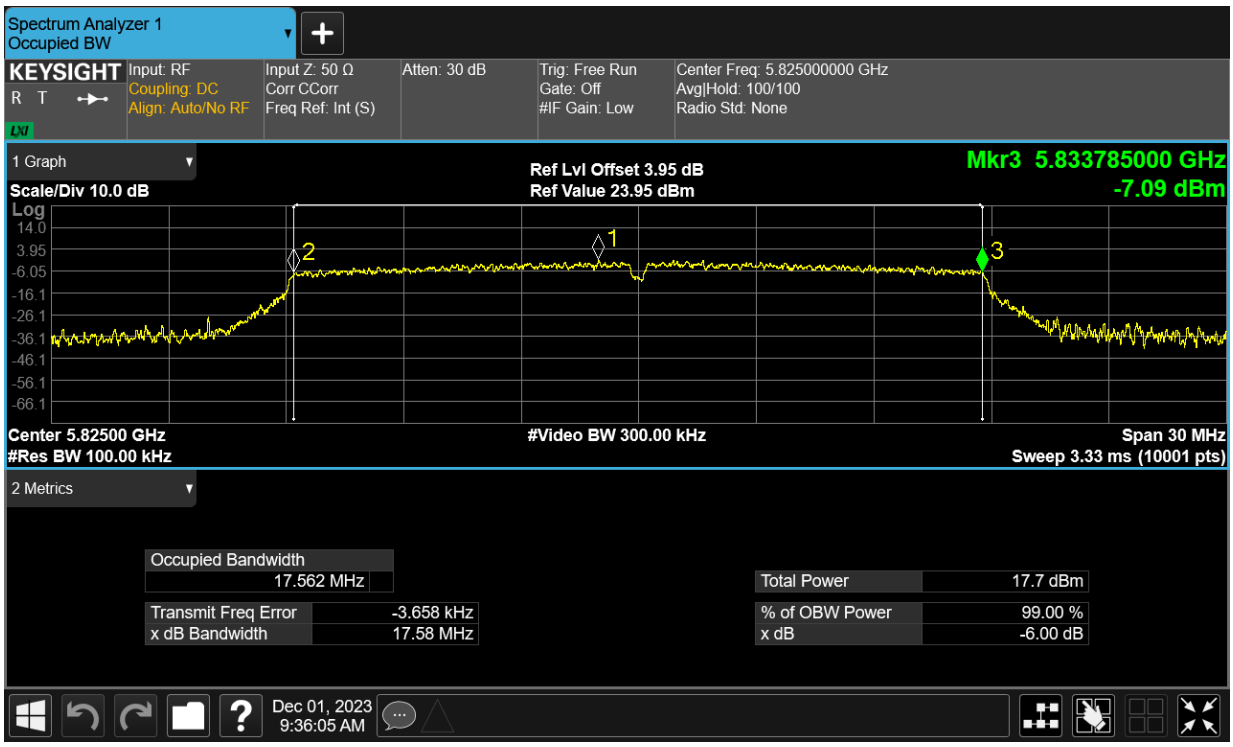
-6dB Bandwidth NVNT n20 5745MHz Ant14



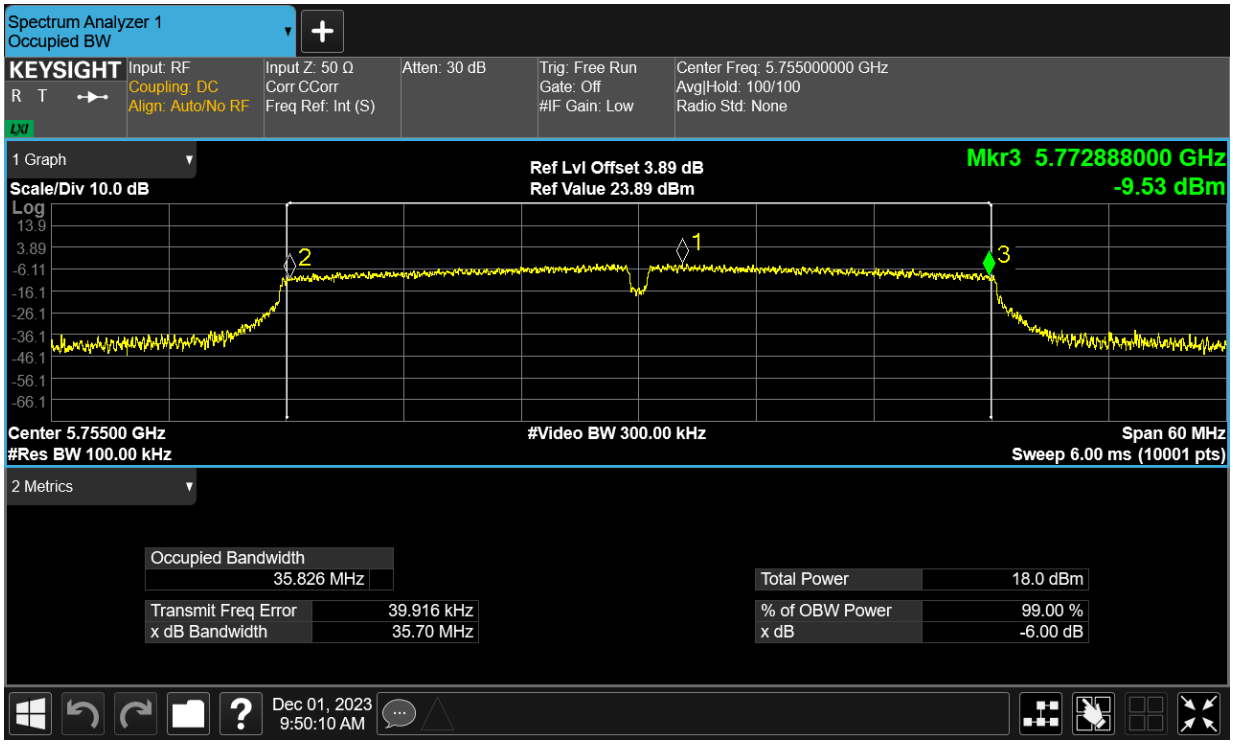
-6dB Bandwidth NVNT n20 5785MHz Ant14



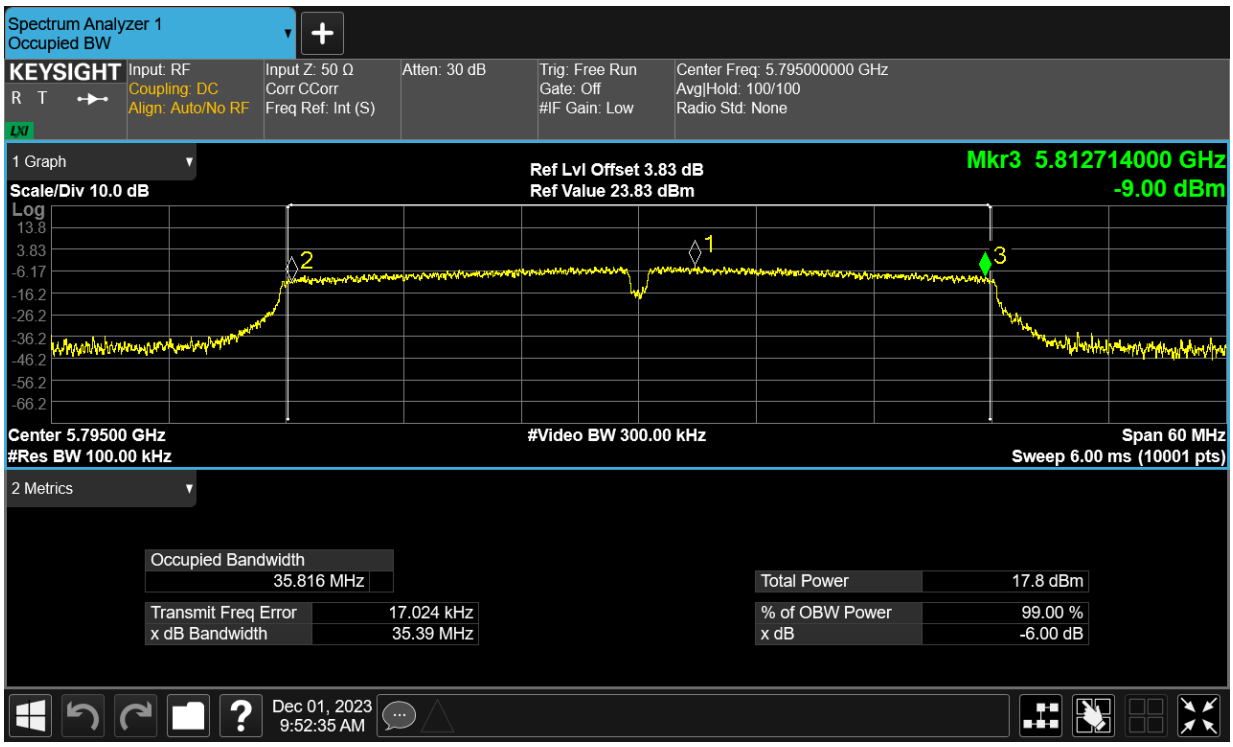
-6dB Bandwidth NVNT n20 5825MHz Ant14



-6dB Bandwidth NVNT n40 5755MHz Ant14



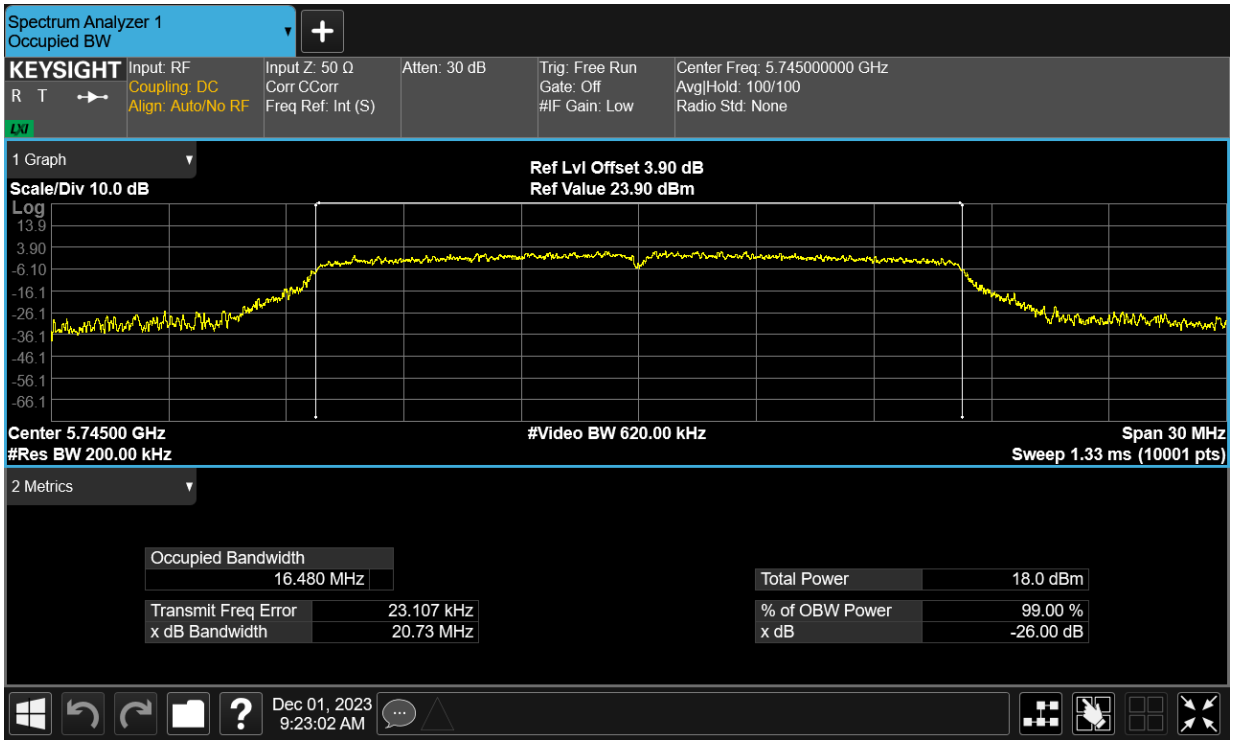
-6dB Bandwidth NVNT n40 5795MHz Ant14



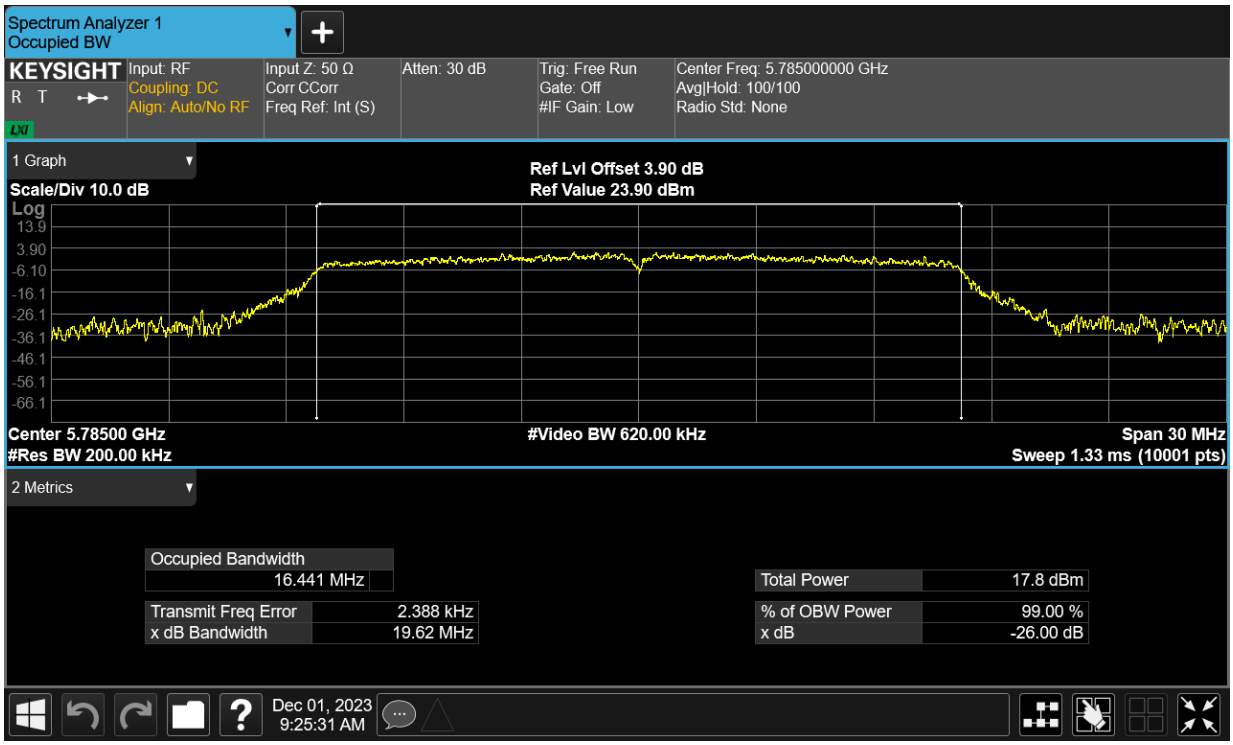
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant14	16.48
NVNT	a	5785	Ant14	16.441
NVNT	a	5825	Ant14	16.441
NVNT	ac20	5745	Ant14	17.59
NVNT	ac20	5785	Ant14	17.585
NVNT	ac20	5825	Ant14	17.581
NVNT	ac40	5755	Ant14	35.872
NVNT	ac40	5795	Ant14	35.862
NVNT	ac80	5775	Ant14	75.004
NVNT	n20	5745	Ant14	17.576
NVNT	n20	5785	Ant14	17.591
NVNT	n20	5825	Ant14	17.578
NVNT	n40	5755	Ant14	35.94
NVNT	n40	5795	Ant14	35.907

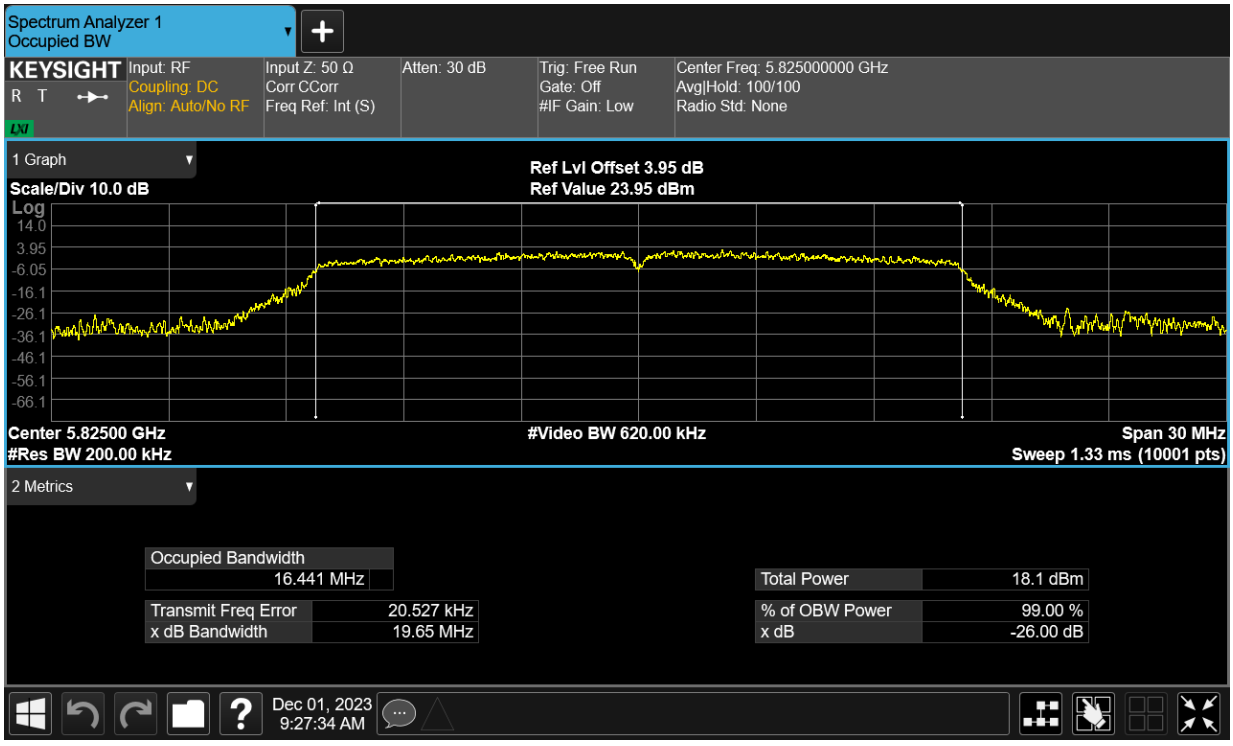
Test Graphs
OBW NVNT a 5745MHz Ant14



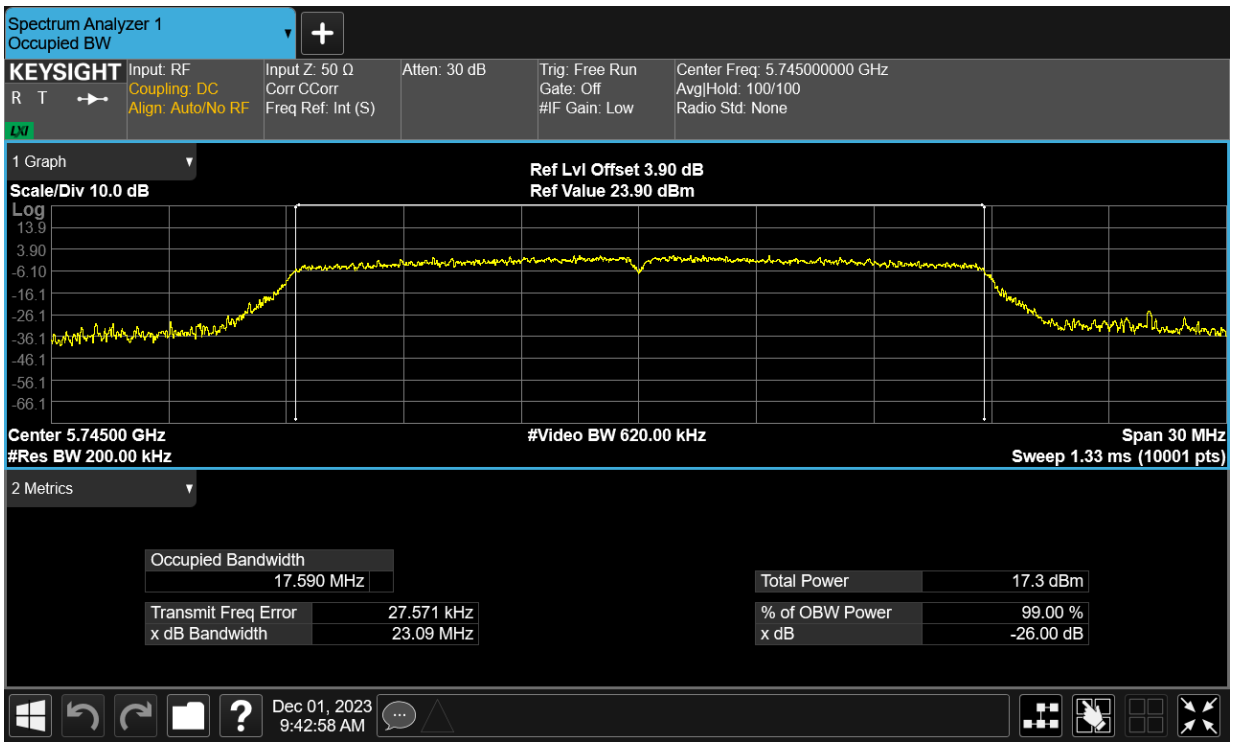
OBW NVNT a 5785MHz Ant14



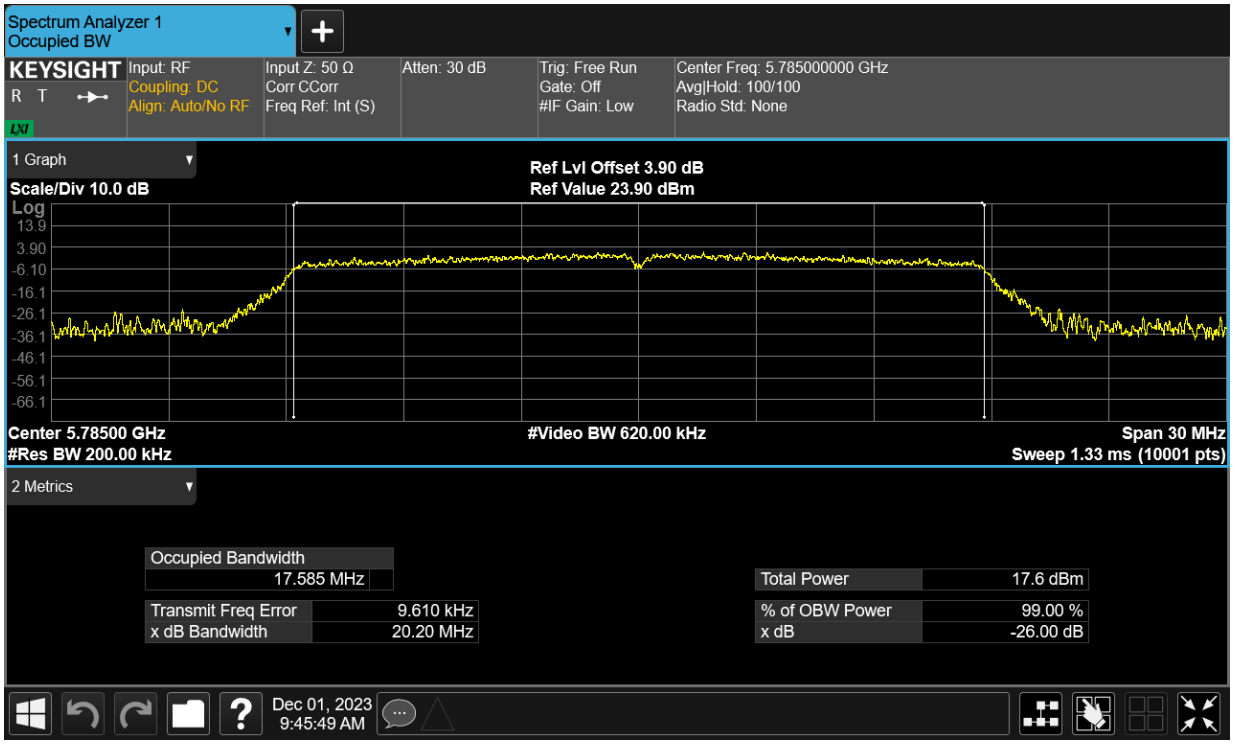
OBW NVNT a 5825MHz Ant14



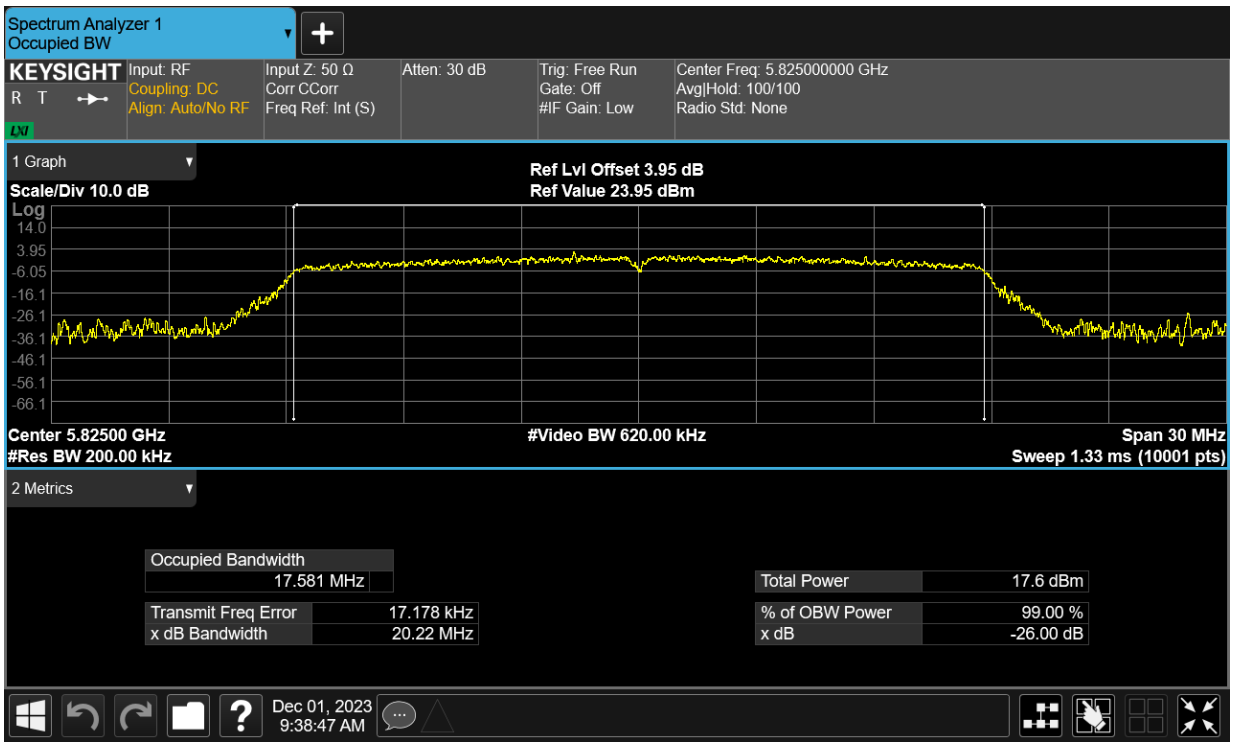
OBW NVNT ac20 5745MHz Ant14



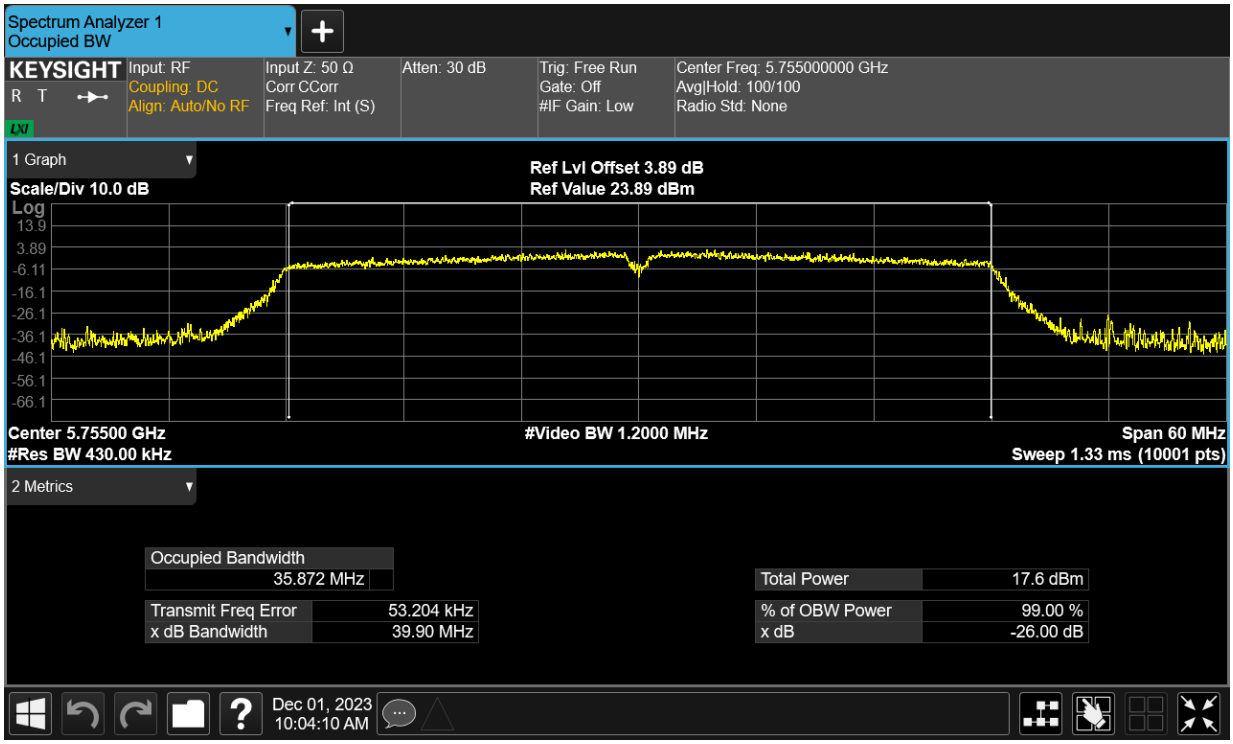
OBW NVNT ac20 5785MHz Ant14



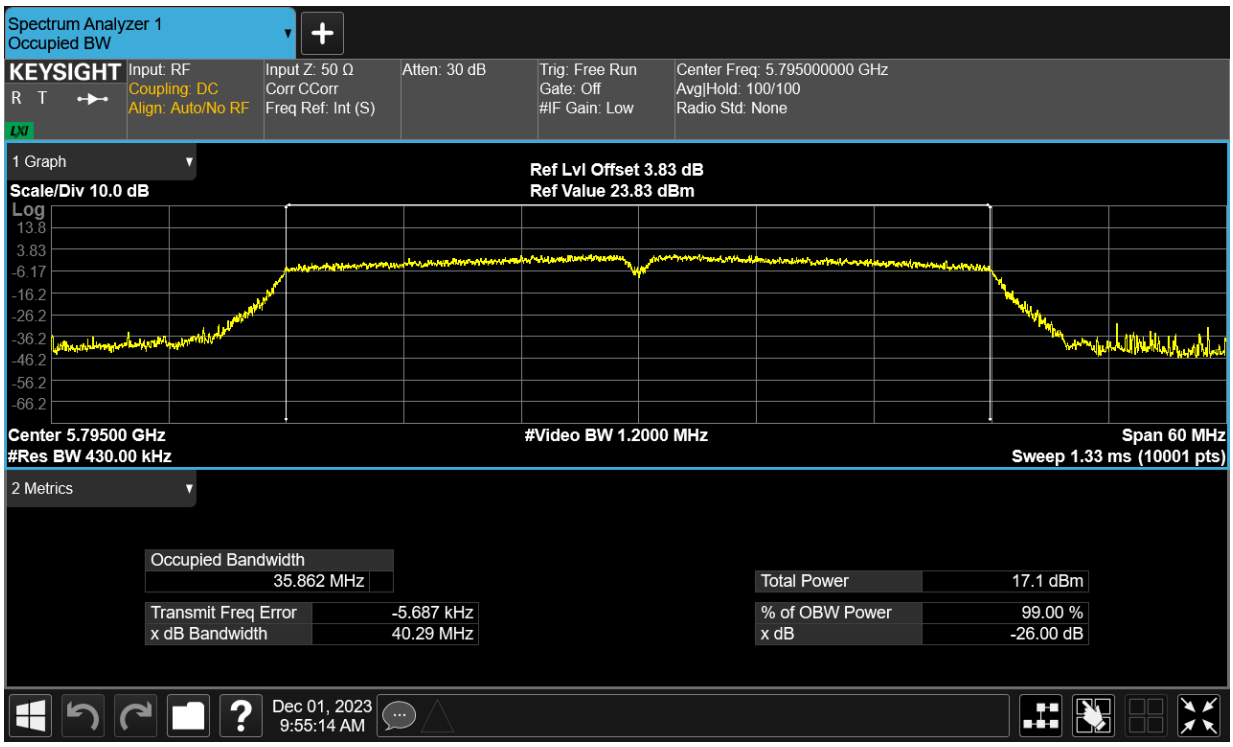
OBW NVNT ac20 5825MHz Ant14



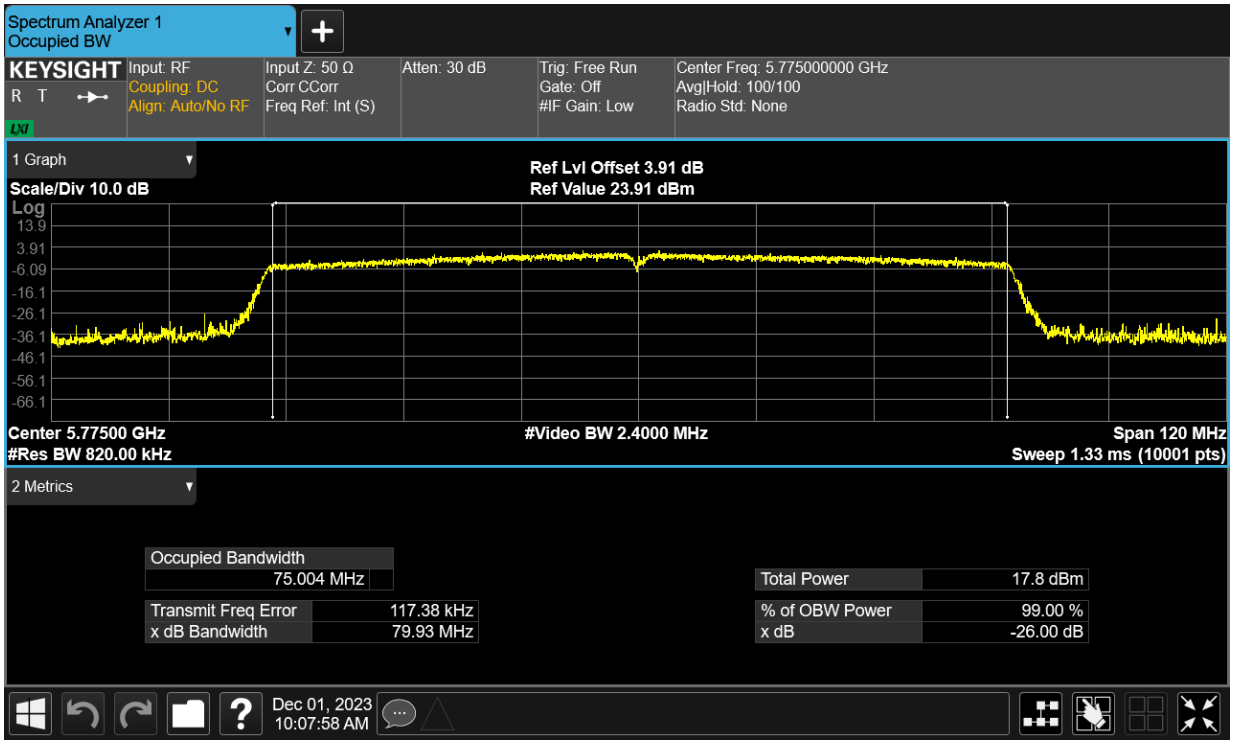
OBW NVNT ac40 5755MHz Ant14



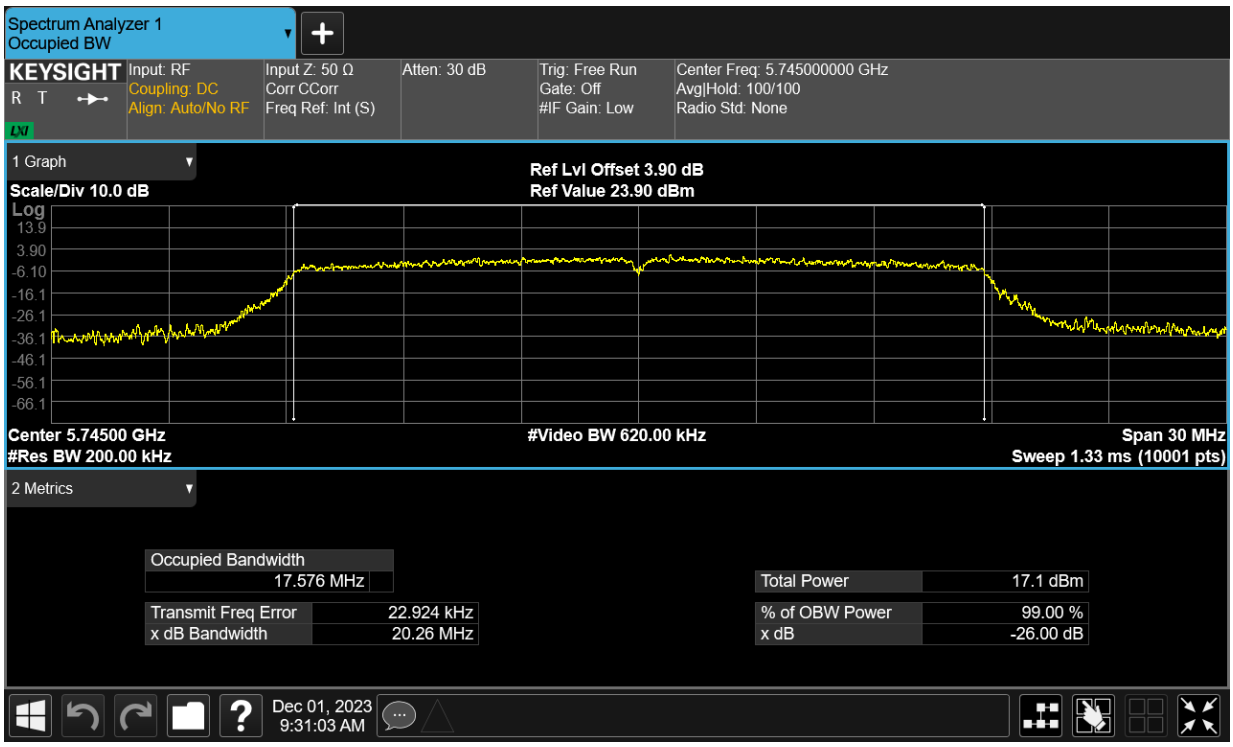
OBW NVNT ac40 5795MHz Ant14



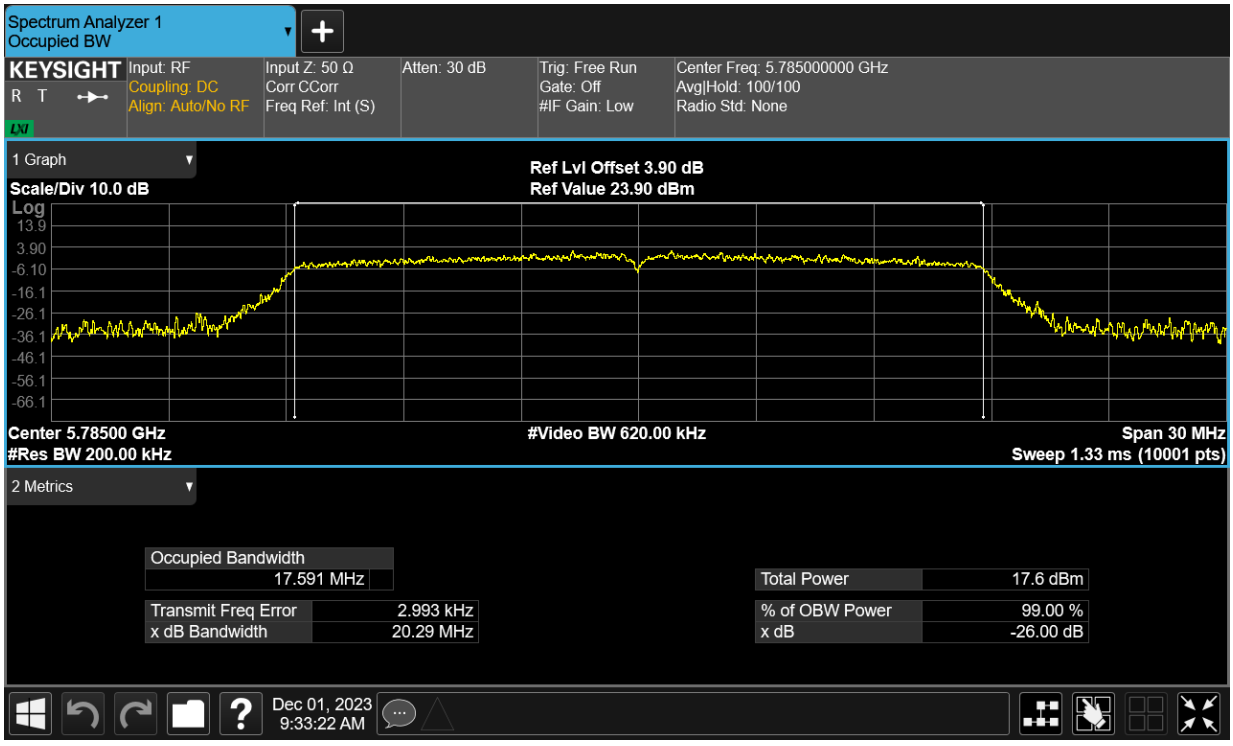
OBW NVNT ac80 5775MHz Ant14



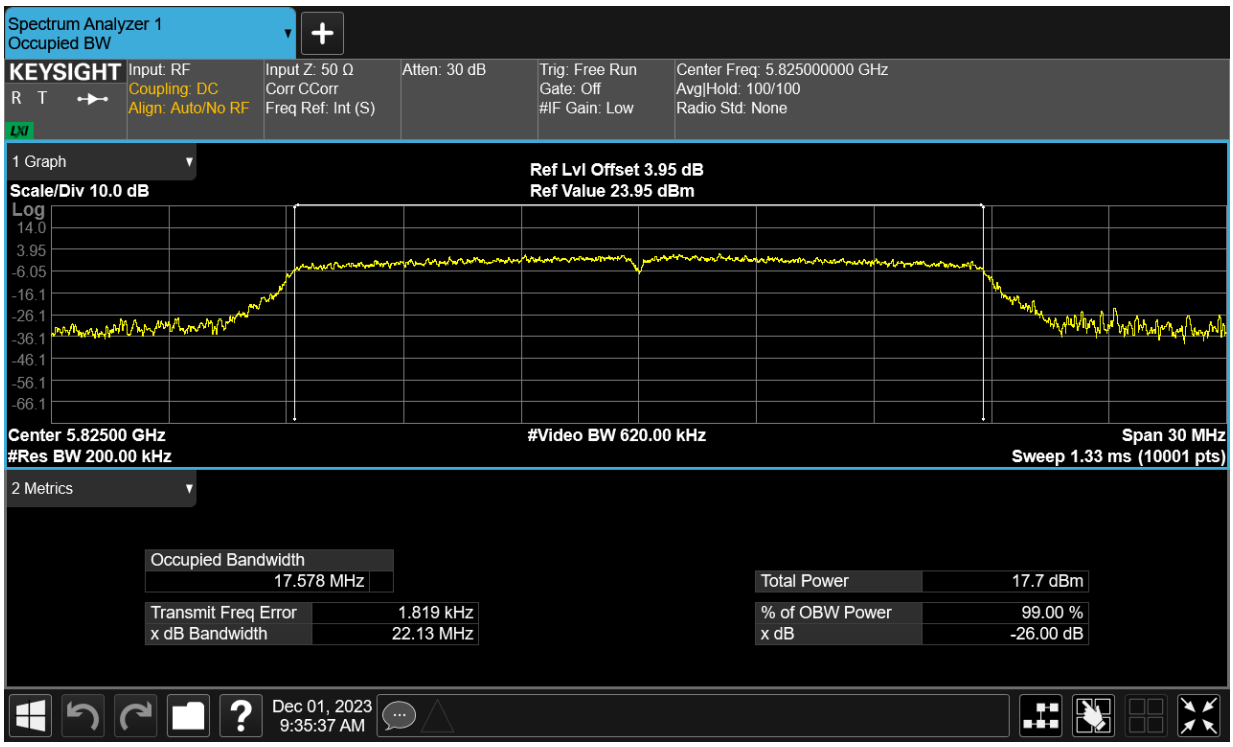
OBW NVNT n20 5745MHz Ant14



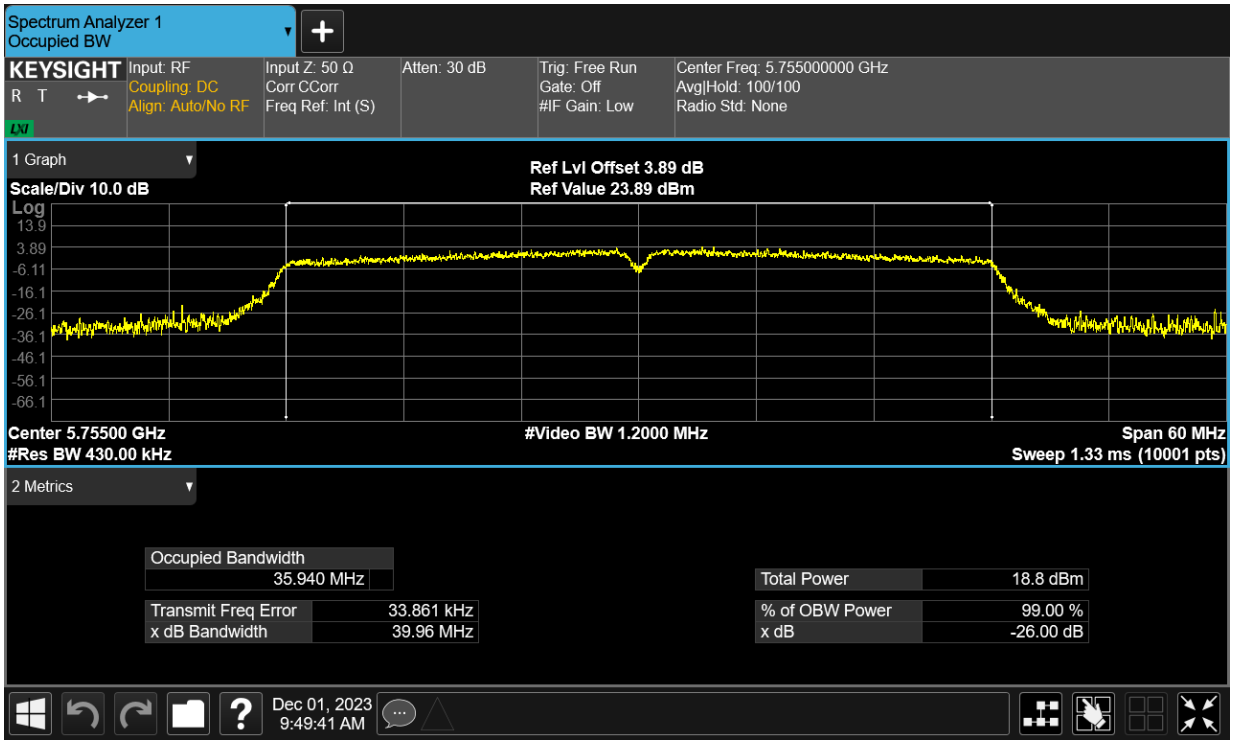
OBW NVNT n20 5785MHz Ant14



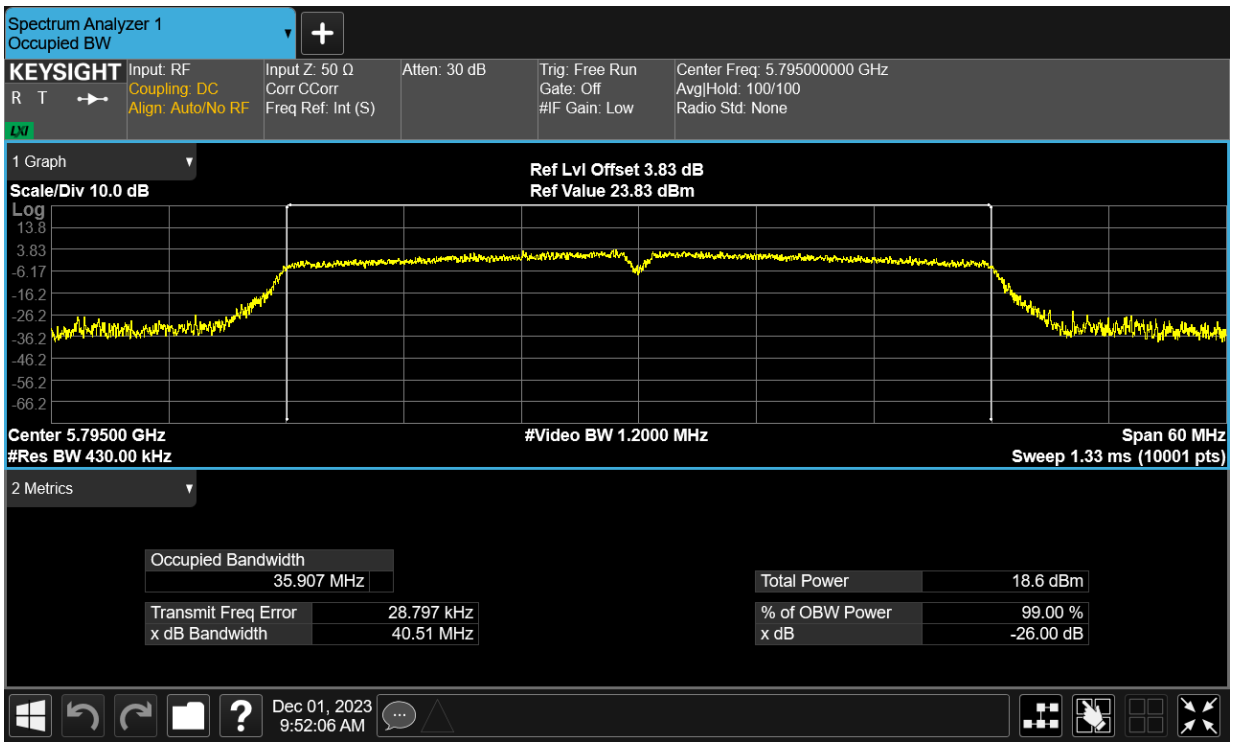
OBW NVNT n20 5825MHz Ant14



OBW NVNT n40 5755MHz Ant14



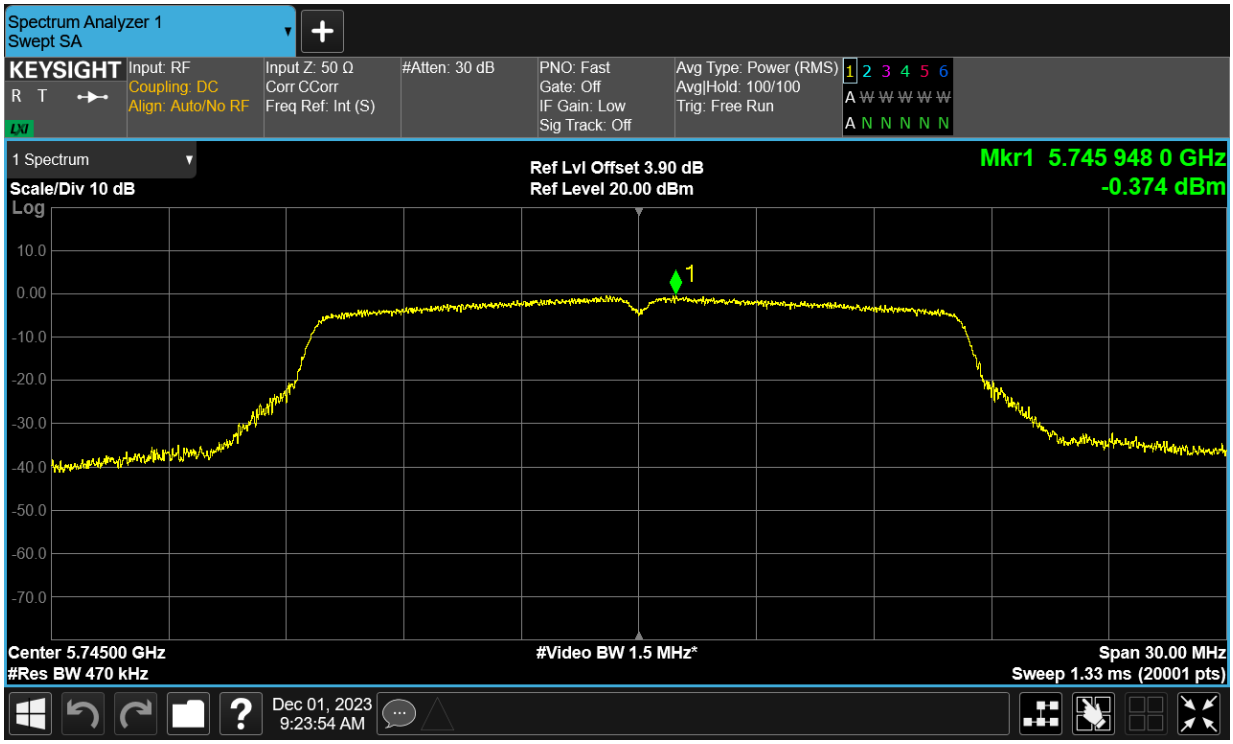
OBW NVNT n40 5795MHz Ant14



Maximum Power Spectral Density Level

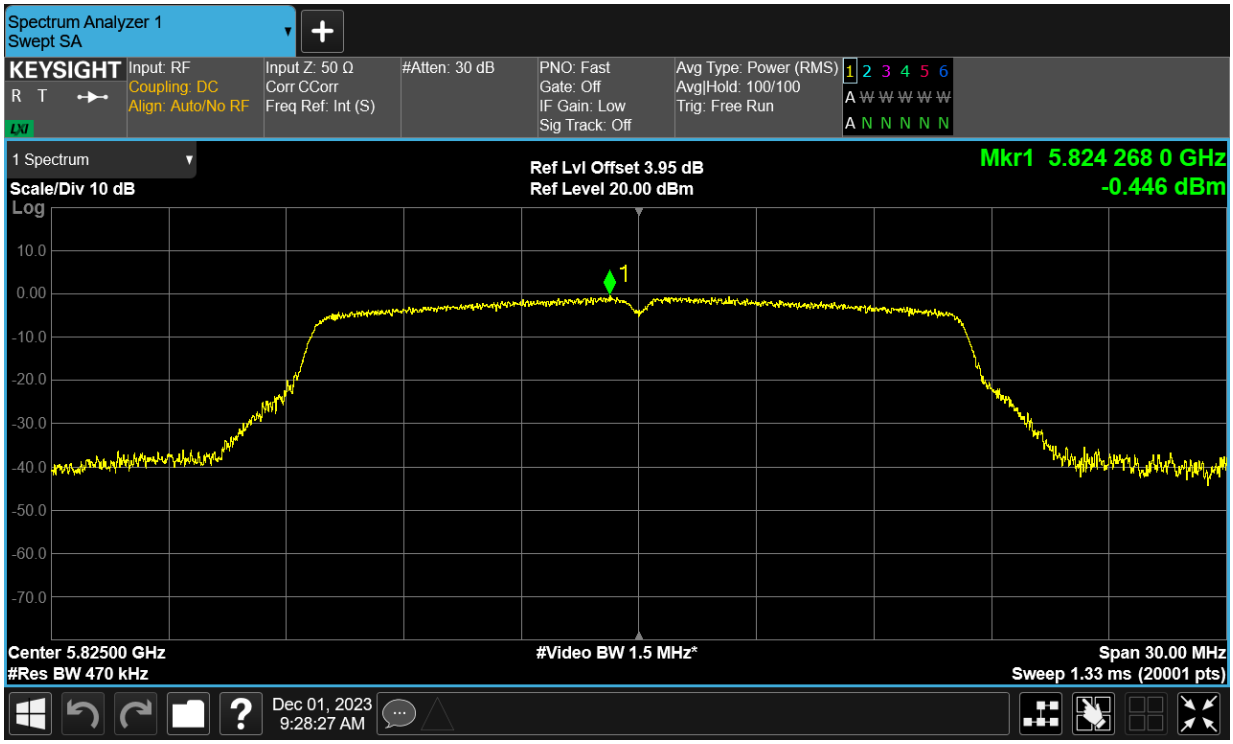
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant14	-0.374	30	Pass
NVNT	a	5785	Ant14	-0.503	30	Pass
NVNT	a	5825	Ant14	-0.446	30	Pass
NVNT	ac20	5745	Ant14	-1.24	30	Pass
NVNT	ac20	5785	Ant14	-1.099	30	Pass
NVNT	ac20	5825	Ant14	-0.888	30	Pass
NVNT	ac40	5755	Ant14	-3.86	30	Pass
NVNT	ac40	5795	Ant14	-4.386	30	Pass
NVNT	ac80	5775	Ant14	-7.661	30	Pass
NVNT	n20	5745	Ant14	-1.387	30	Pass
NVNT	n20	5785	Ant14	-1.146	30	Pass
NVNT	n20	5825	Ant14	-0.988	30	Pass
NVNT	n40	5755	Ant14	-2.894	30	Pass
NVNT	n40	5795	Ant14	-2.983	30	Pass

Test Graphs
PSD NVNT a 5745MHz Ant14

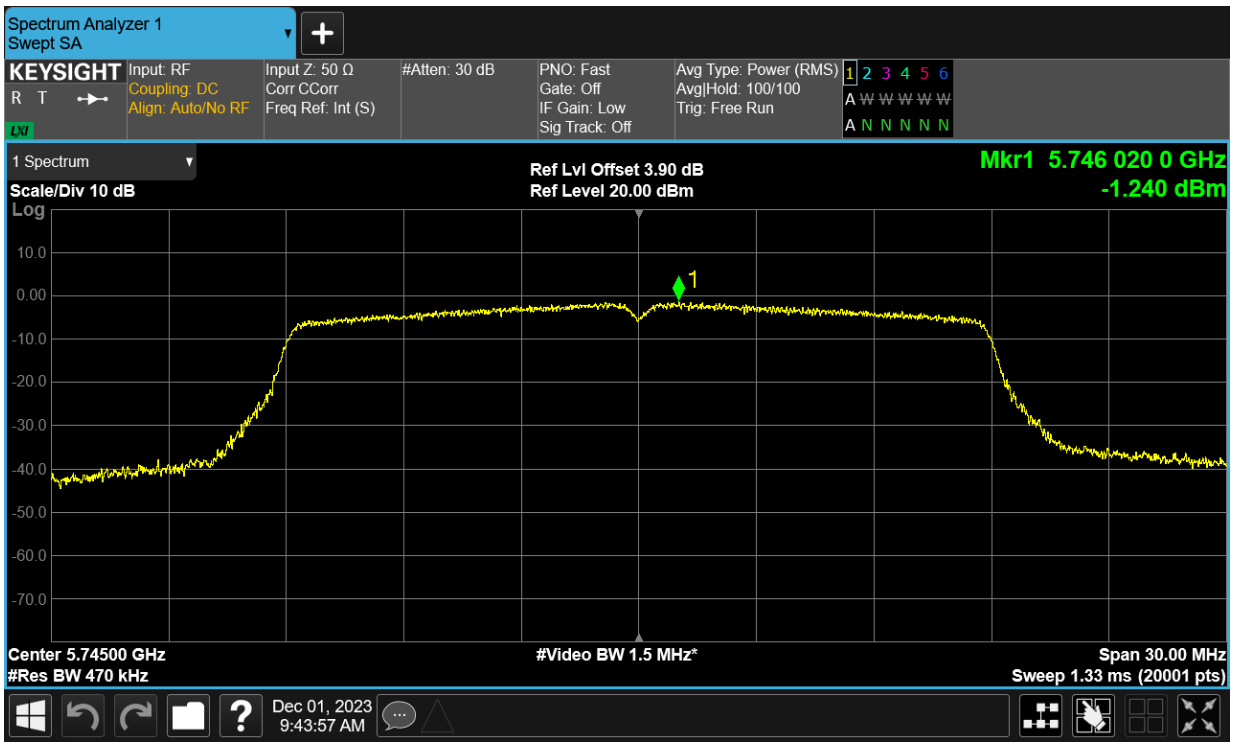


PSD NVNT a 5785MHz Ant14

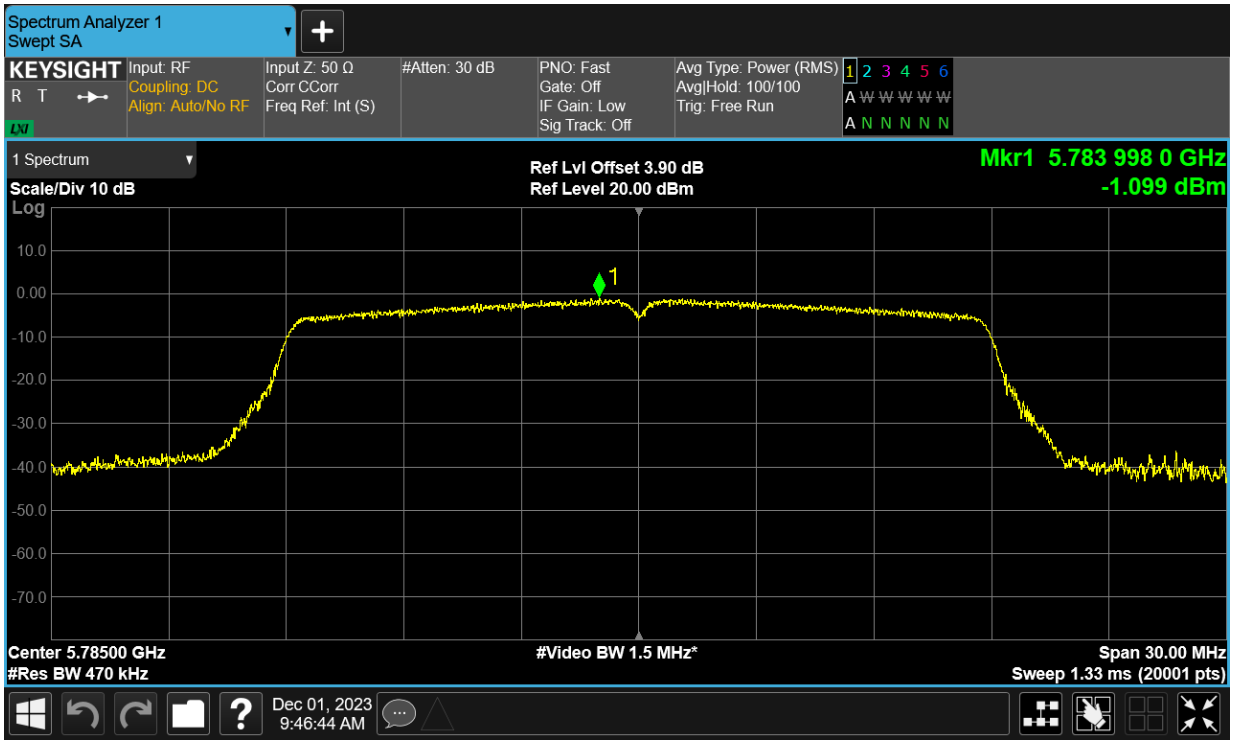
PSD NVNT a 5825MHz Ant14



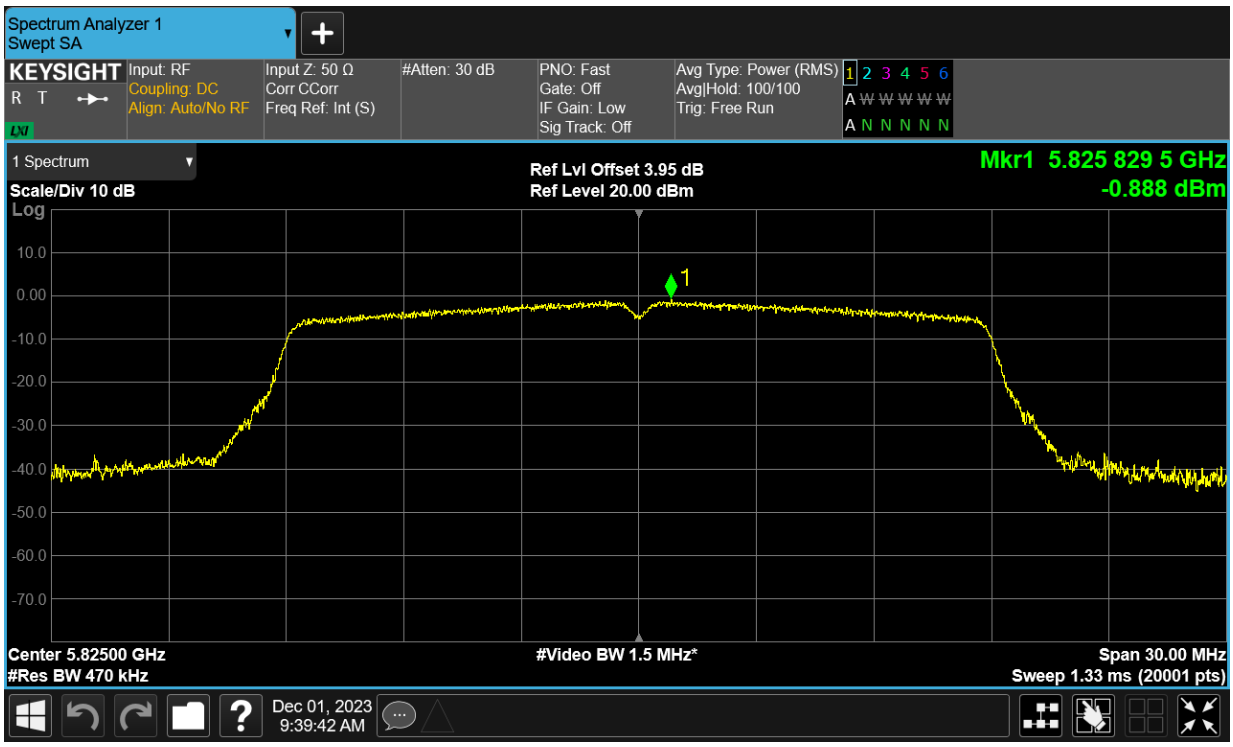
PSD NVNT ac20 5745MHz Ant14



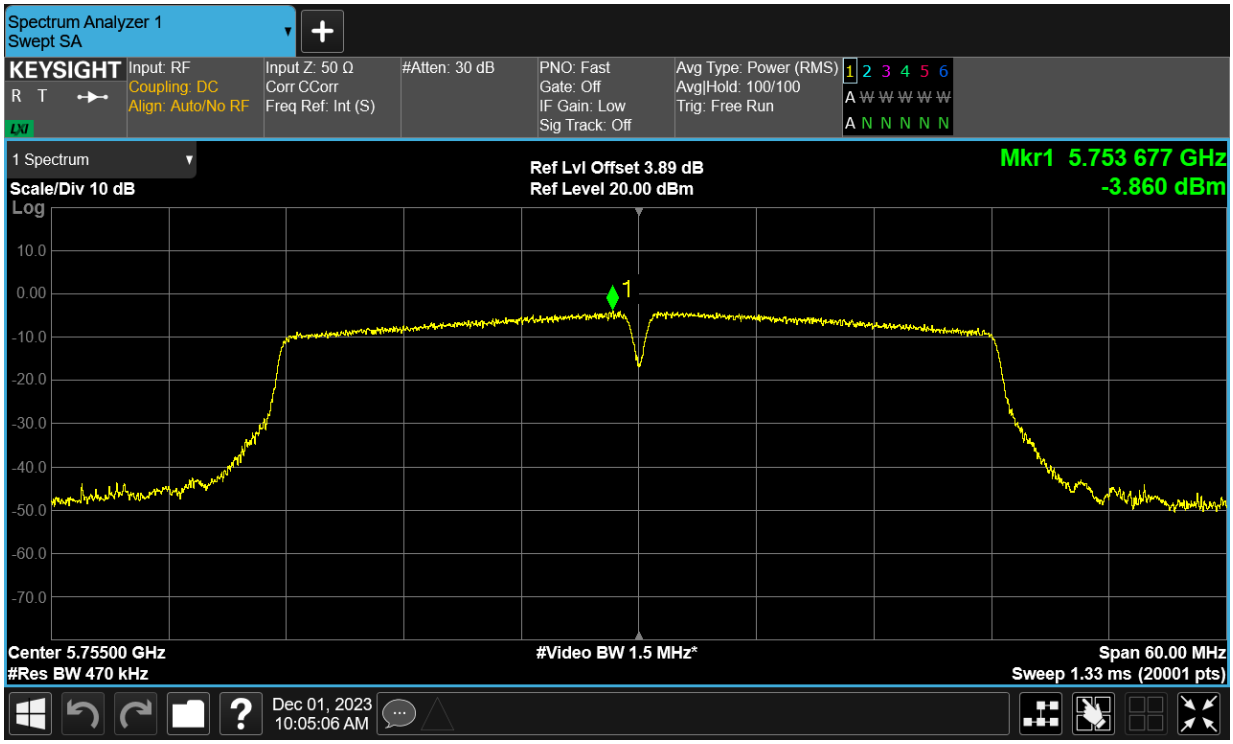
PSD NVNT ac20 5785MHz Ant14



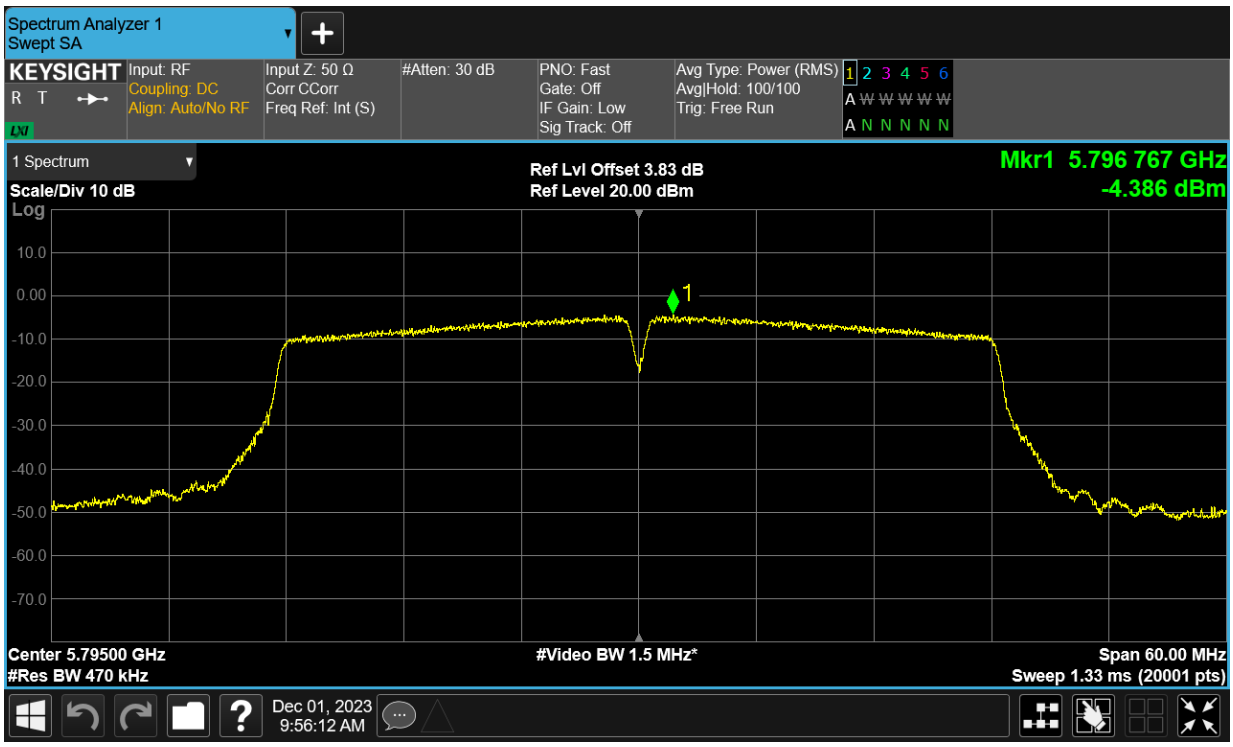
PSD NVNT ac20 5825MHz Ant14



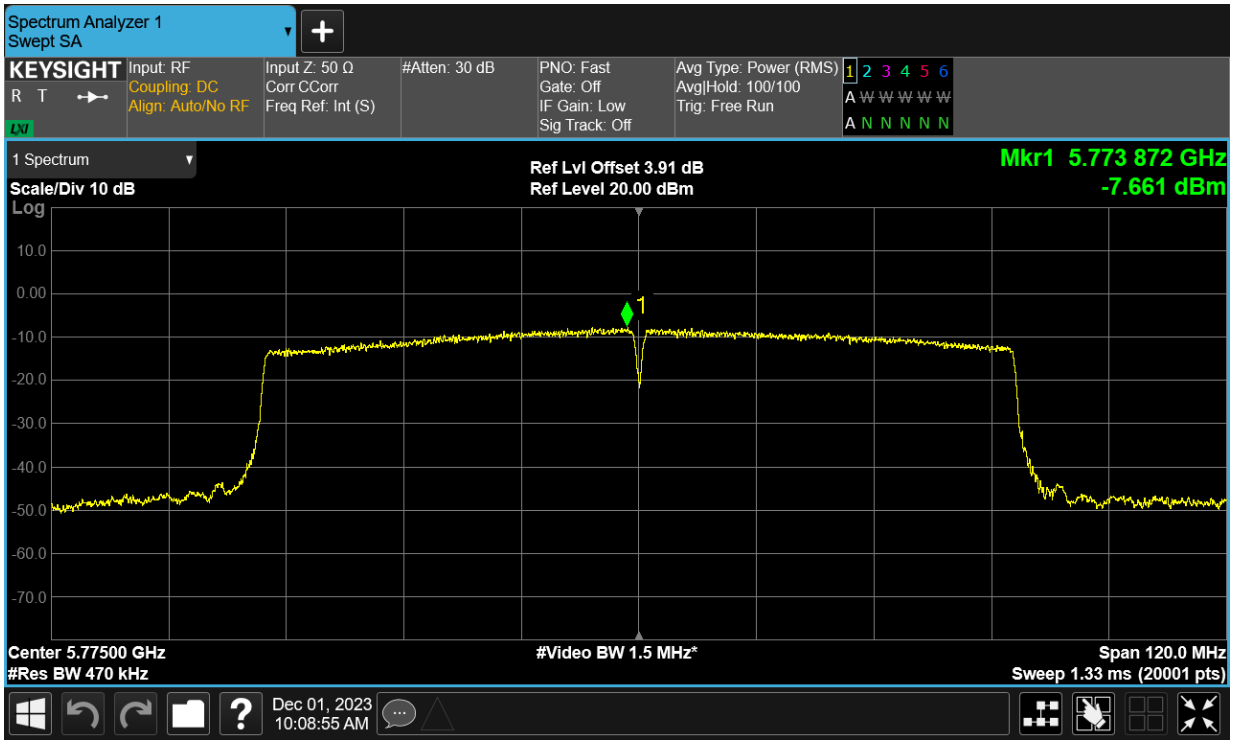
PSD NVNT ac40 5755MHz Ant14



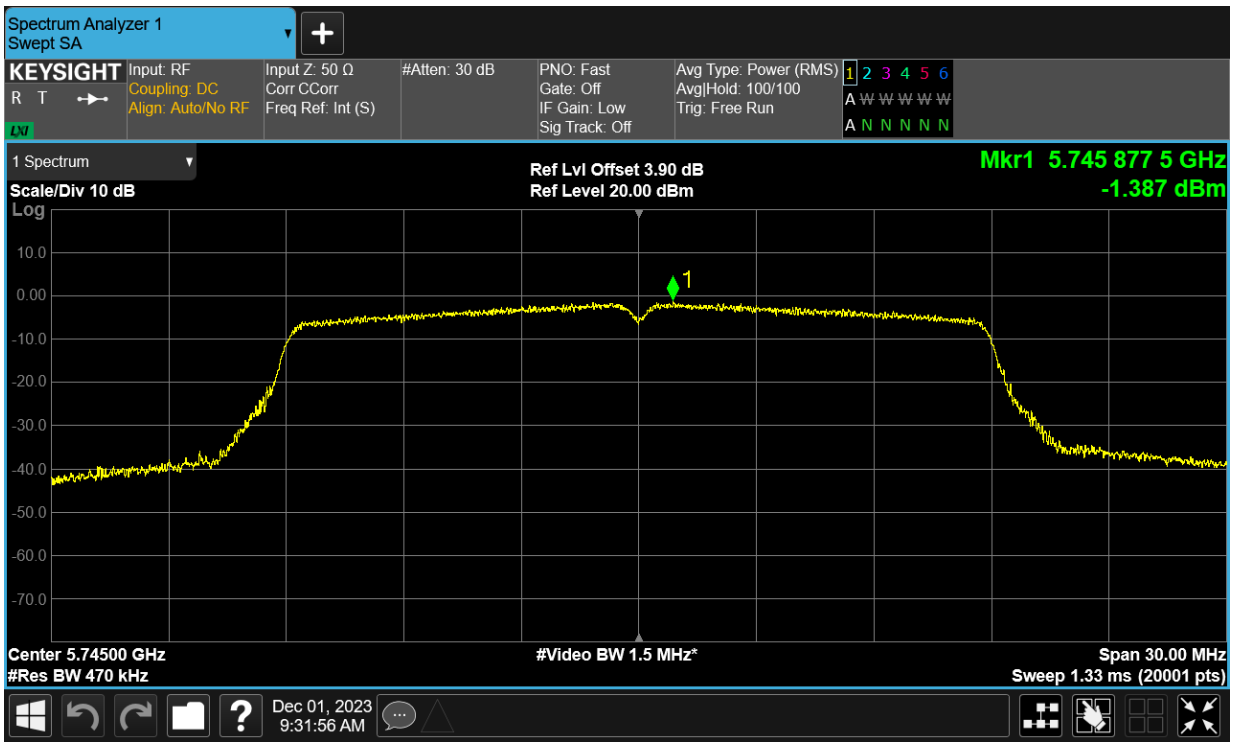
PSD NVNT ac40 5795MHz Ant14



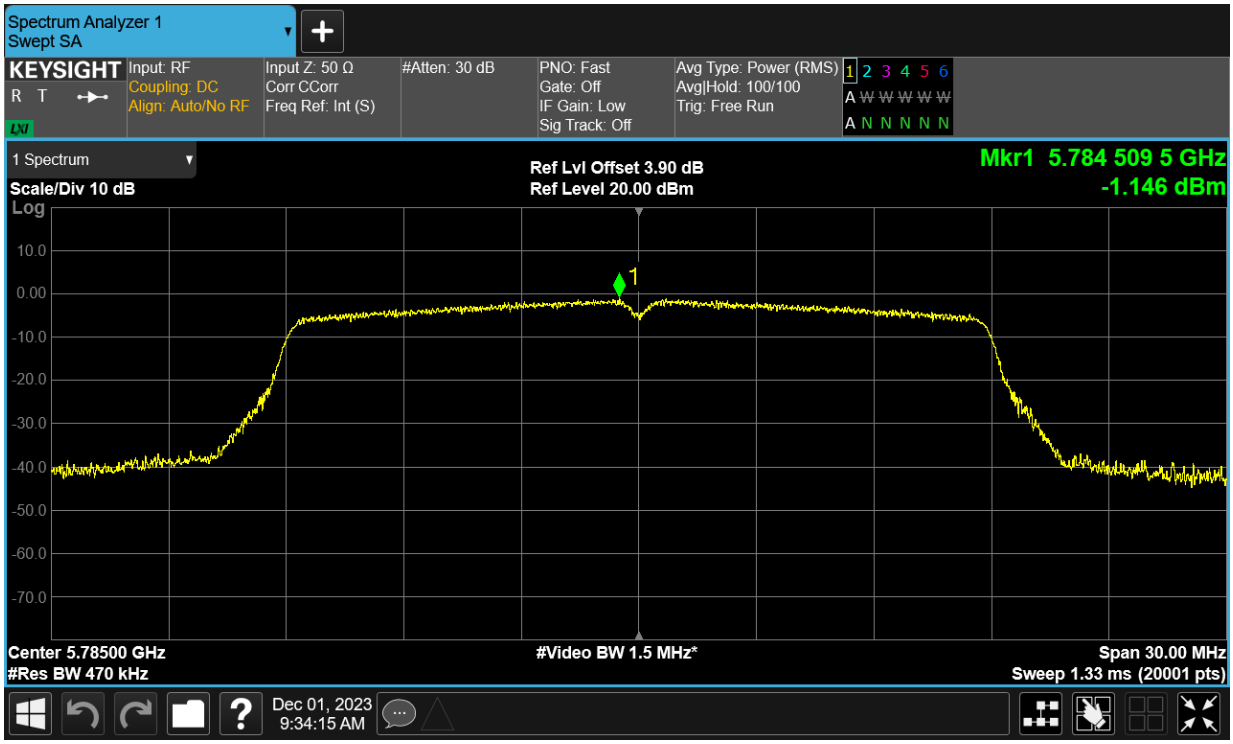
PSD NVNT ac80 5775MHz Ant14



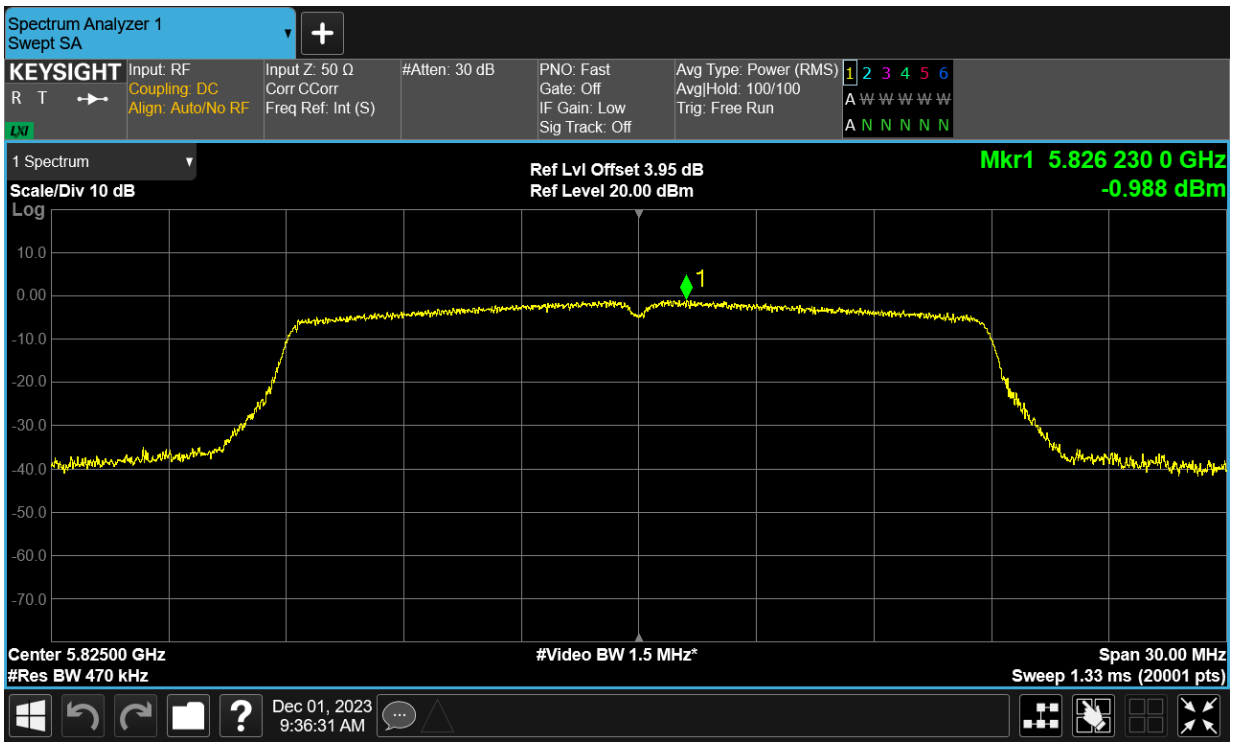
PSD NVNT n20 5745MHz Ant14



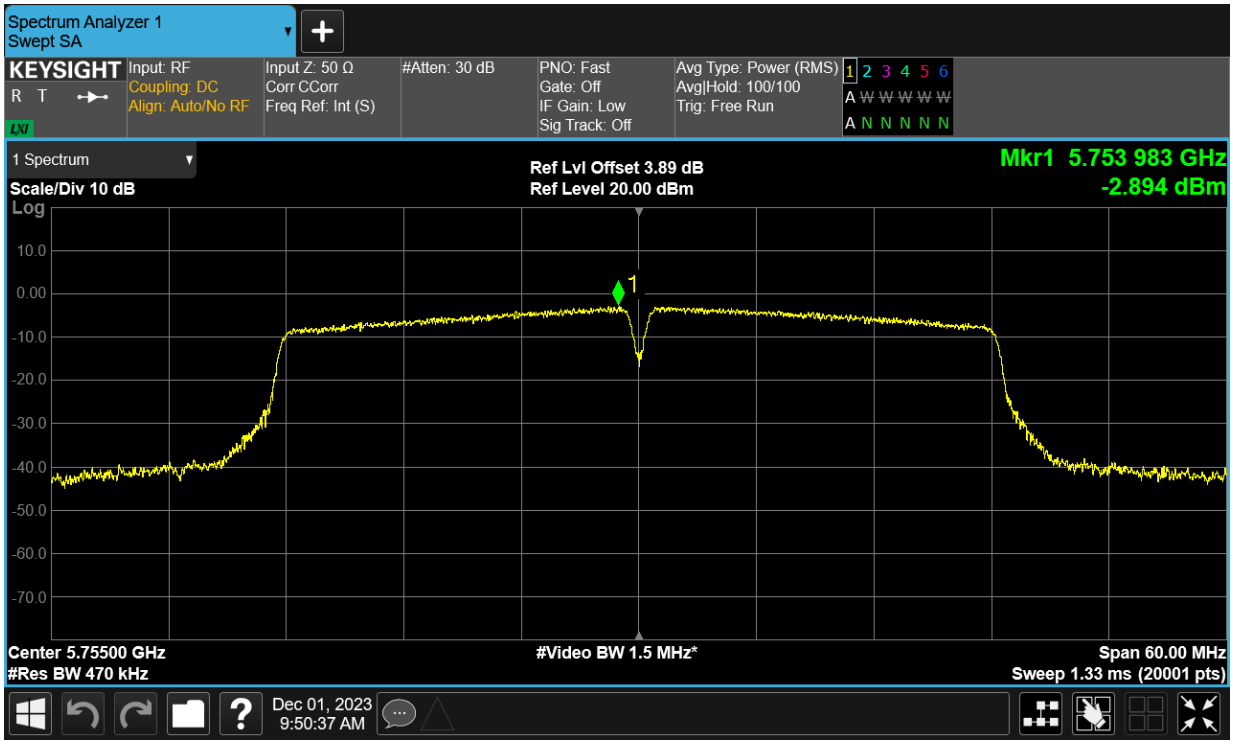
PSD NVNT n20 5785MHz Ant14



PSD NVNT n20 5825MHz Ant14



PSD NVNT n40 5755MHz Ant14



PSD NVNT n40 5795MHz Ant14