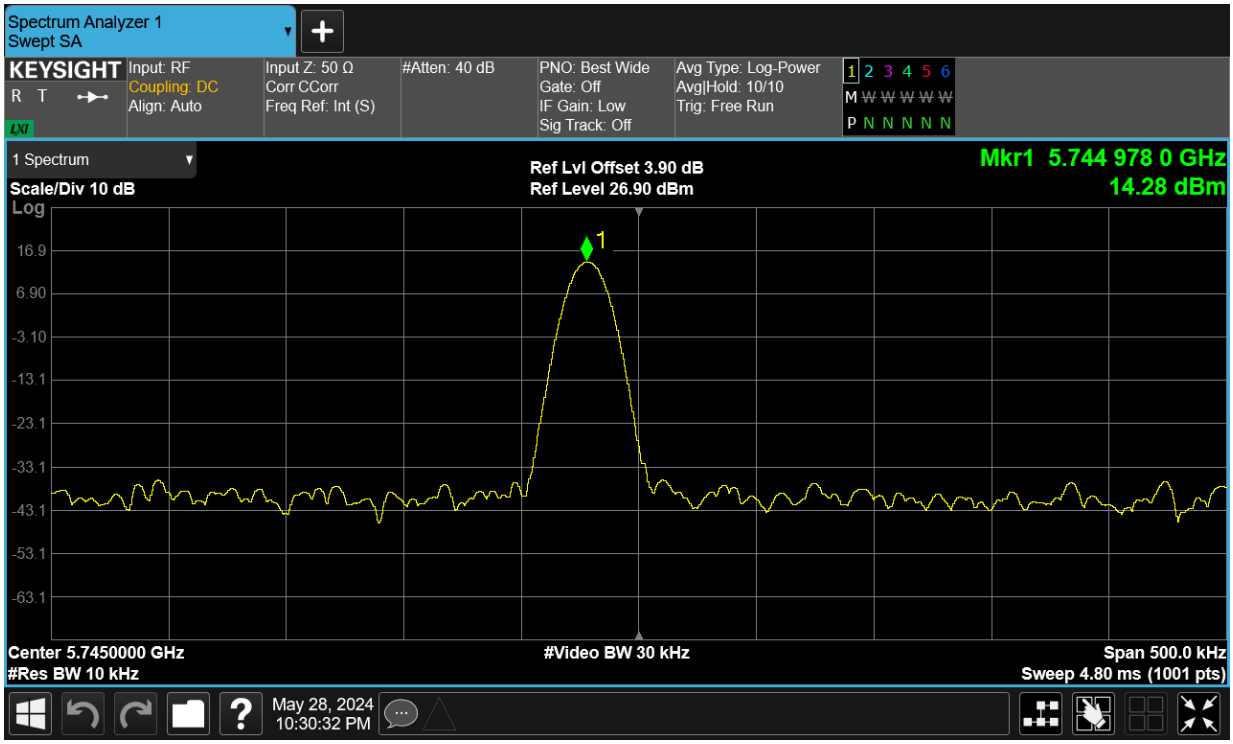
Test Data

Frequency Stability

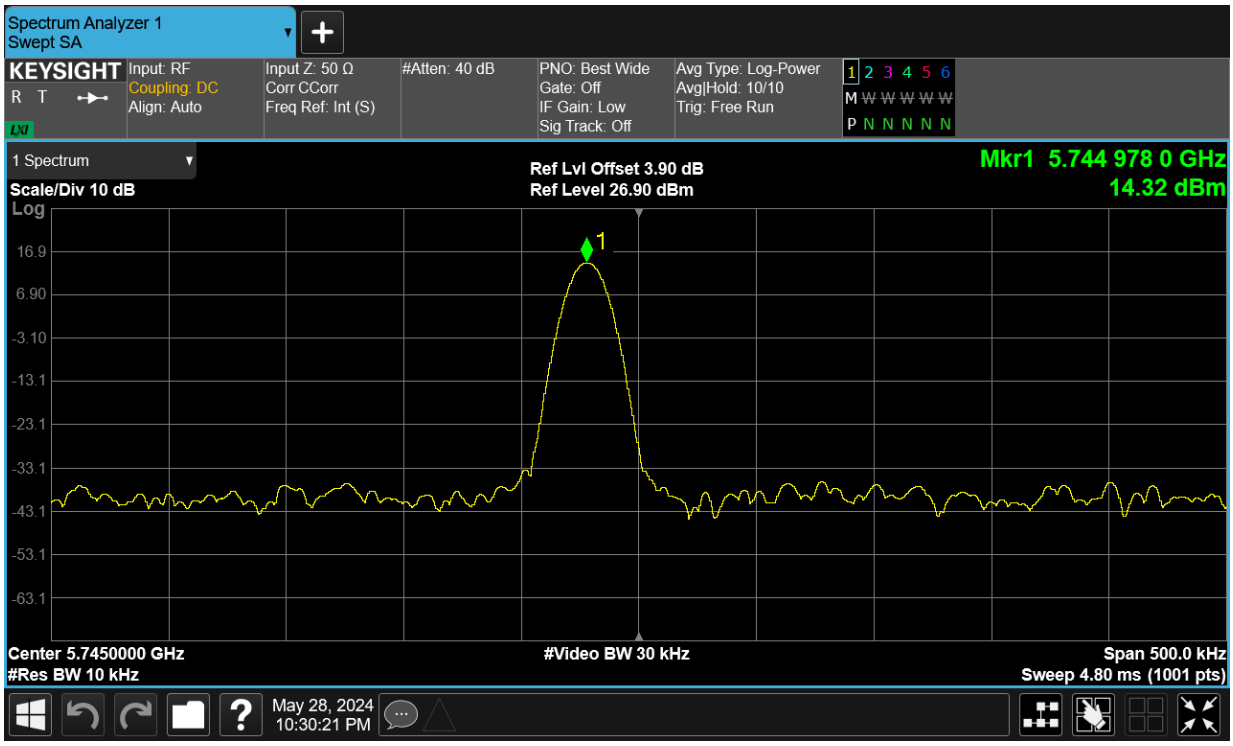
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5745	Ant12	5744.978	-3.83	Within authorized band	Pass
LVNT	a	5745	Ant12	5744.978	-3.83		Pass
NVHT	a	5745	Ant12	5744.978	-3.83		Pass
NVLT	a	5745	Ant12	5744.9785	-3.74		Pass
NVNT	a	5745	Ant12	5744.9785	-3.74		Pass
HVNT	ac80	5775	Ant12	5774.978	-3.81		Pass
LVNT	ac80	5775	Ant12	5774.9775	-3.9		Pass
NVHT	ac80	5775	Ant12	5774.978	-3.81		Pass
NVLT	ac80	5775	Ant12	5774.978	-3.81		Pass
NVNT	ac80	5775	Ant12	5774.979	-3.64		Pass
HVNT	n40	5755	Ant12	5754.9775	-3.91		Pass
LVNT	n40	5755	Ant12	5754.977	-4		Pass
NVHT	n40	5755	Ant12	5754.977	-4		Pass
NVLT	n40	5755	Ant12	5754.9775	-3.91		Pass
NVNT	n40	5755	Ant12	5754.978	-3.82		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

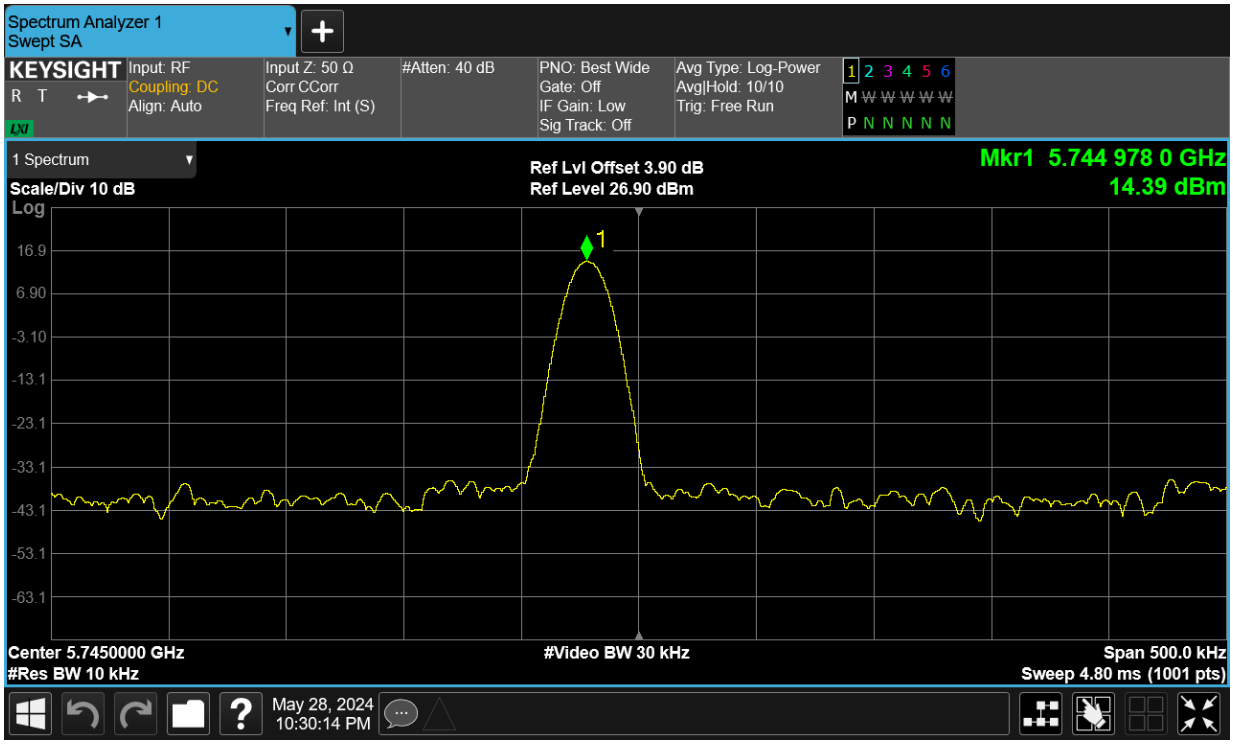
Freq. Stability HVNT a 5745MHz Ant12



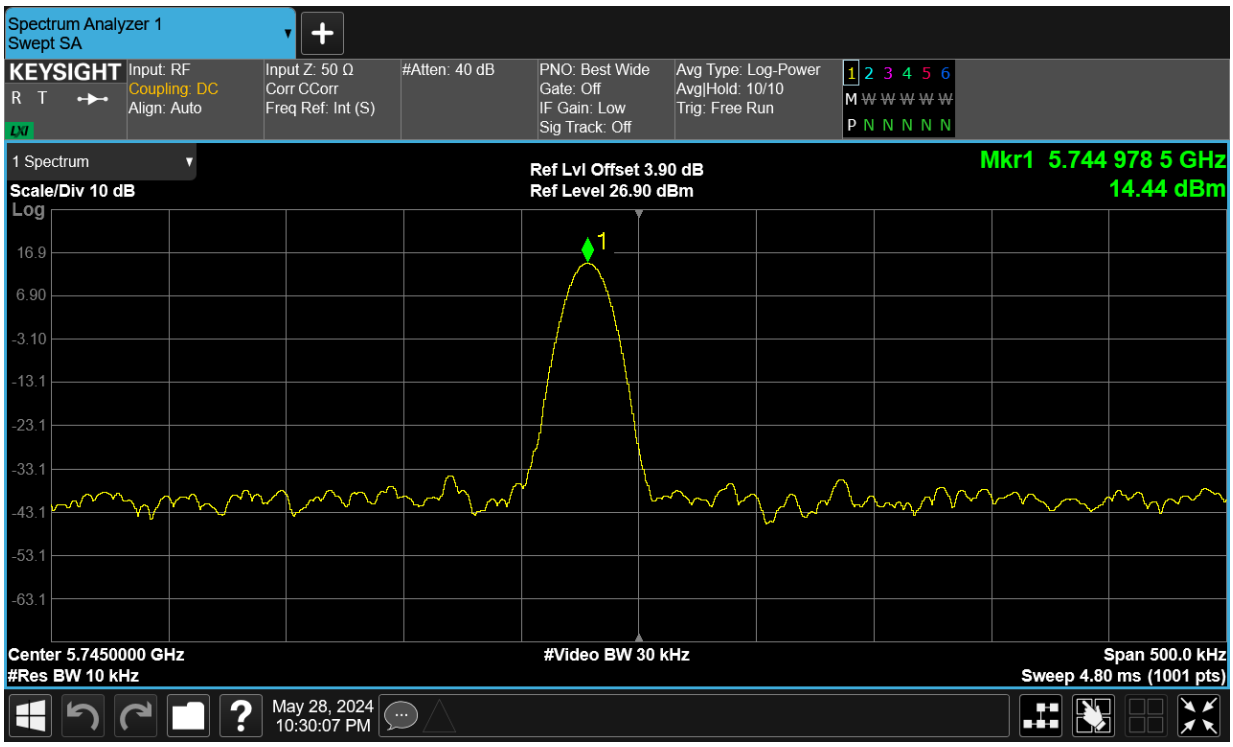
Freq. Stability LVNT a 5745MHz Ant12



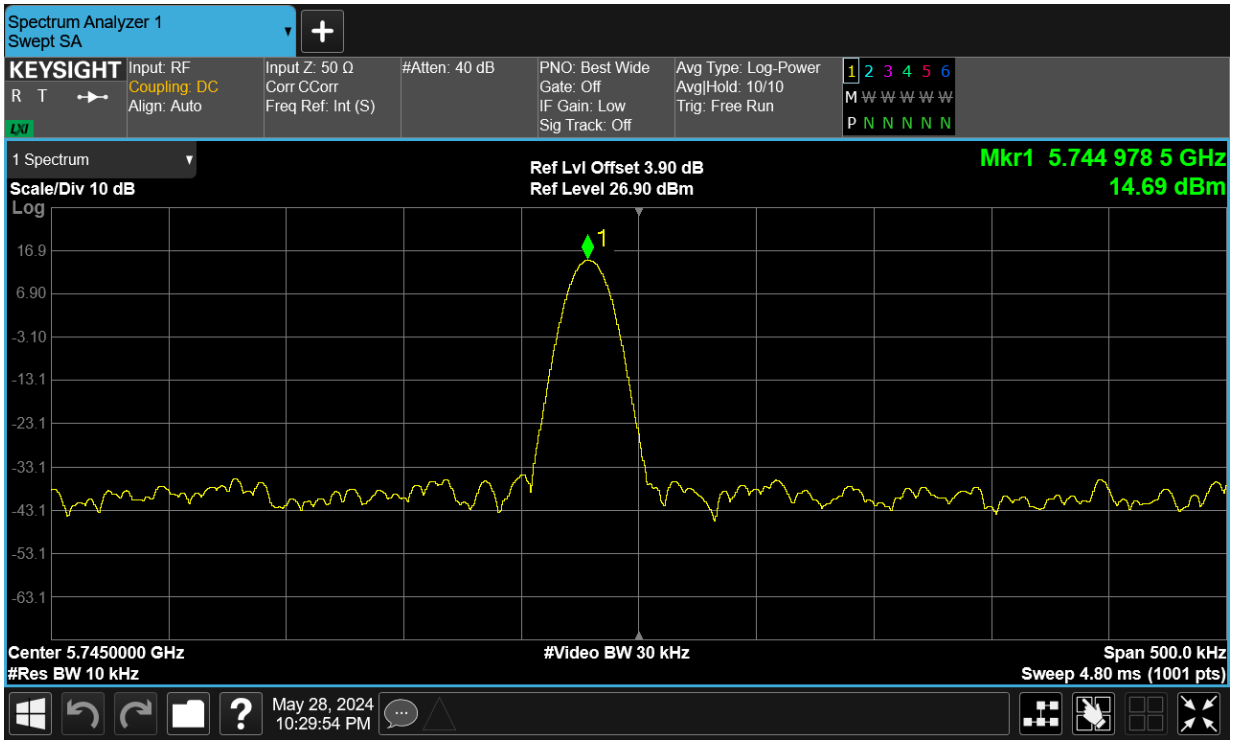
Freq. Stability NVHT a 5745MHz Ant12



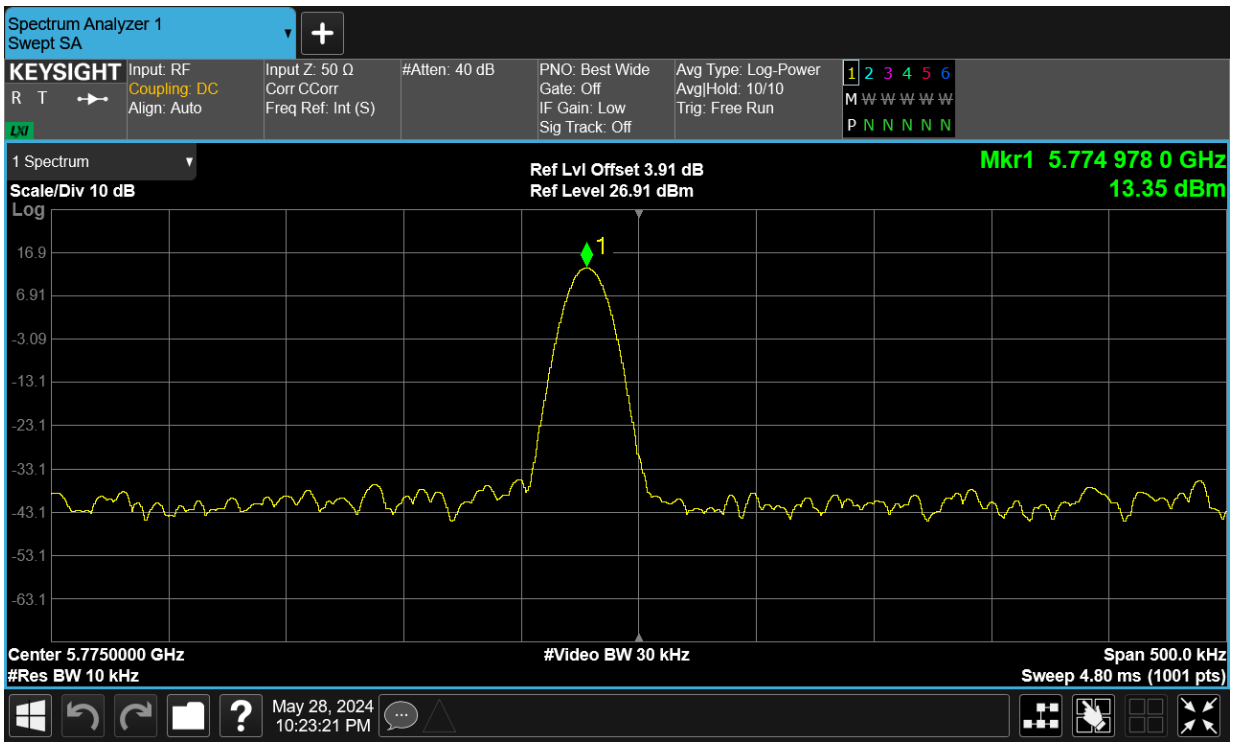
Freq. Stability NVLT a 5745MHz Ant12



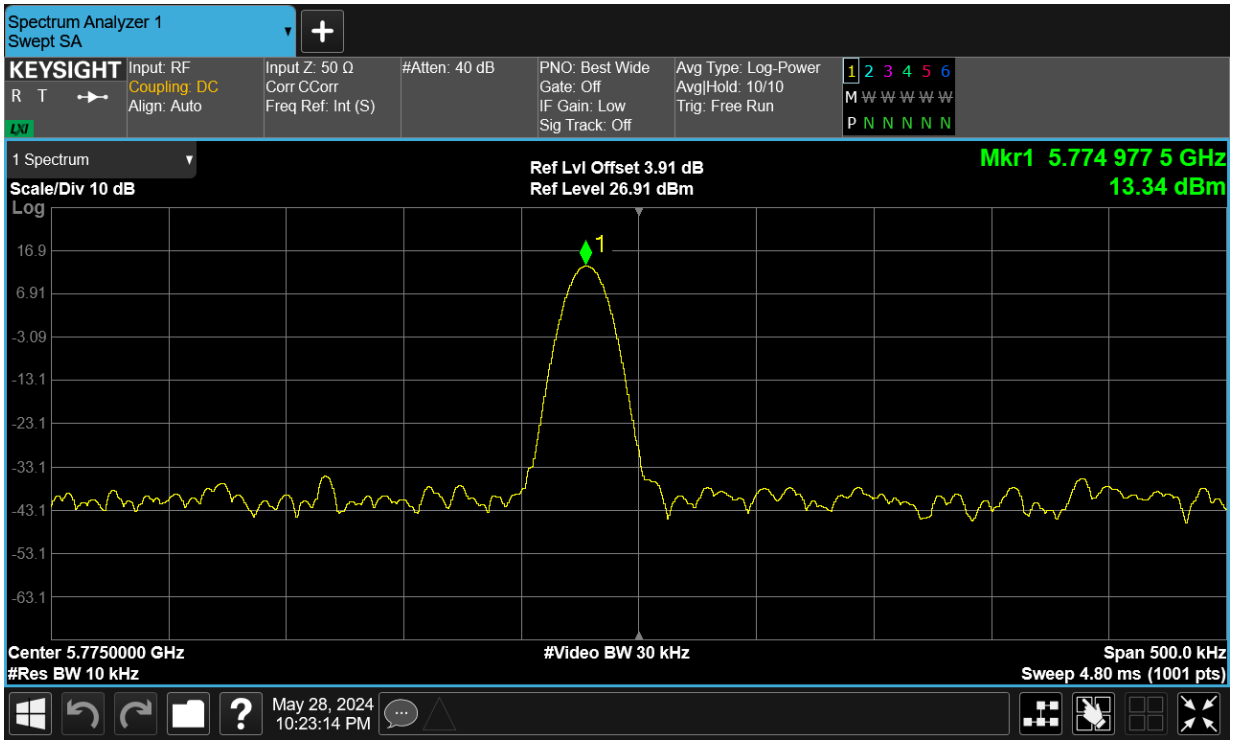
Freq. Stability NVNT a 5745MHz Ant12



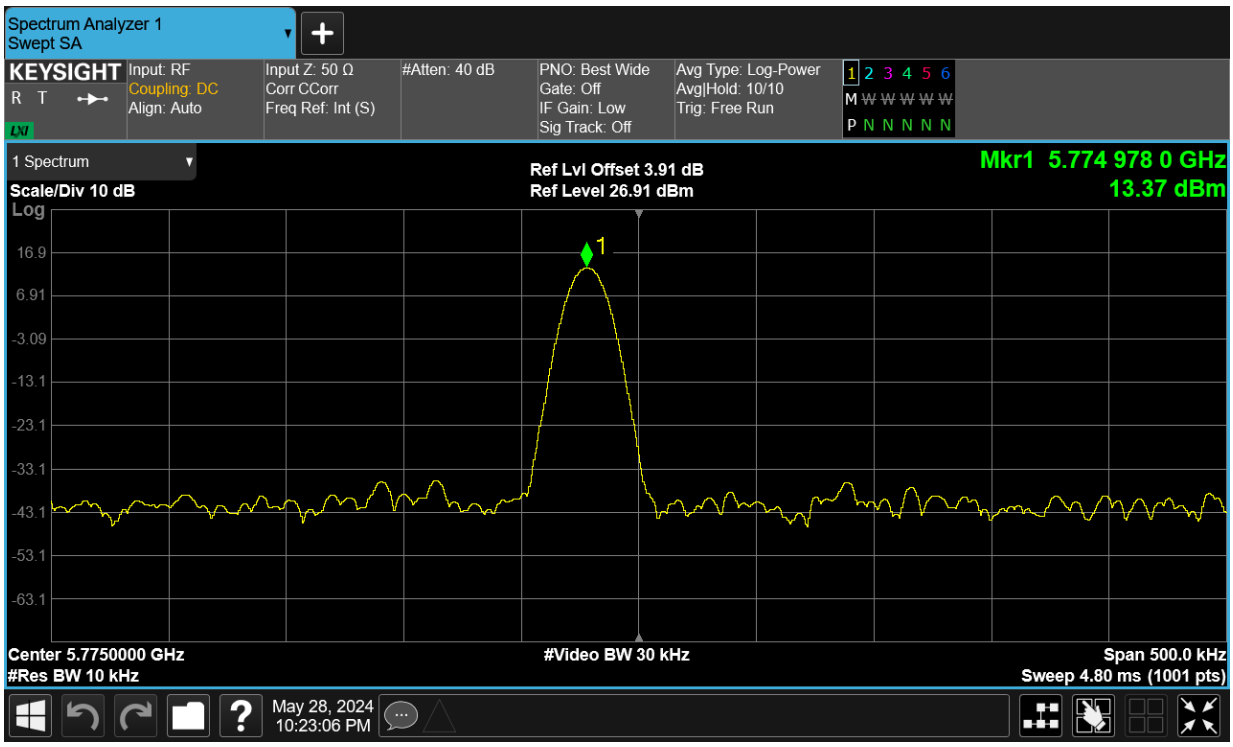
Freq. Stability HVNT ac80 5775MHz Ant12



Freq. Stability LVNT ac80 5775MHz Ant12

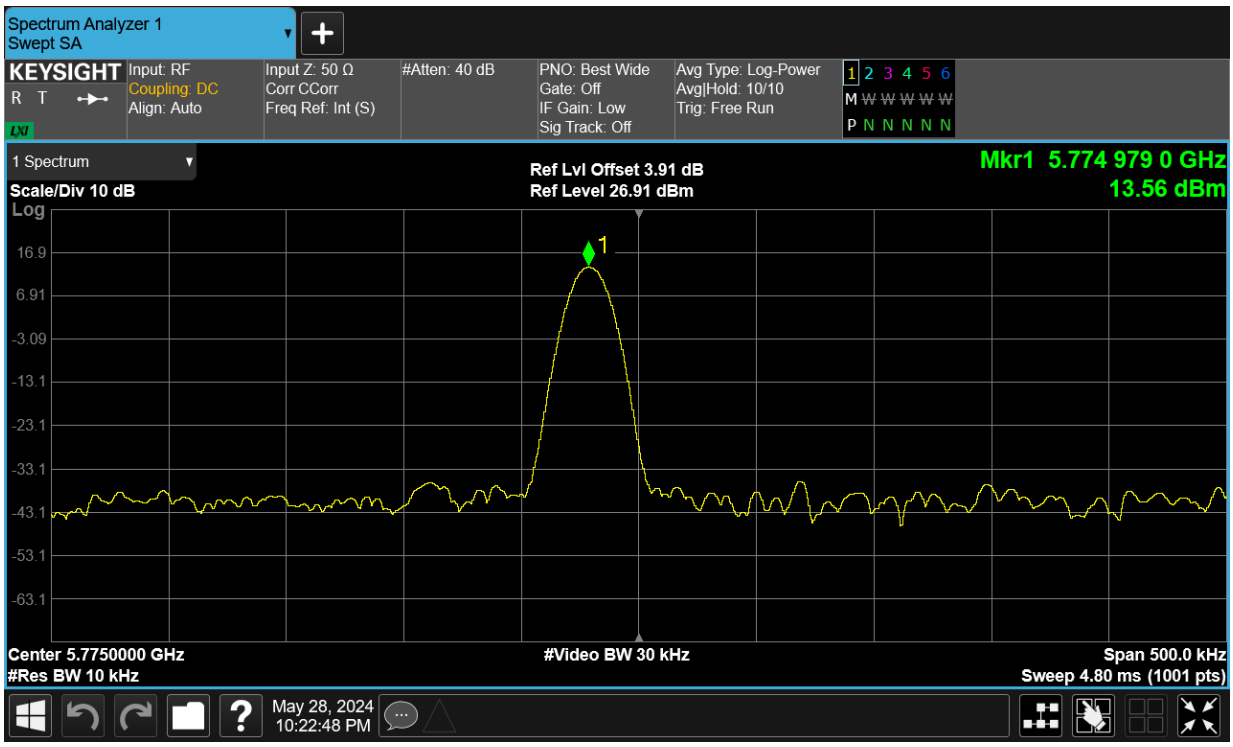


Freq. Stability NVHT ac80 5775MHz Ant12

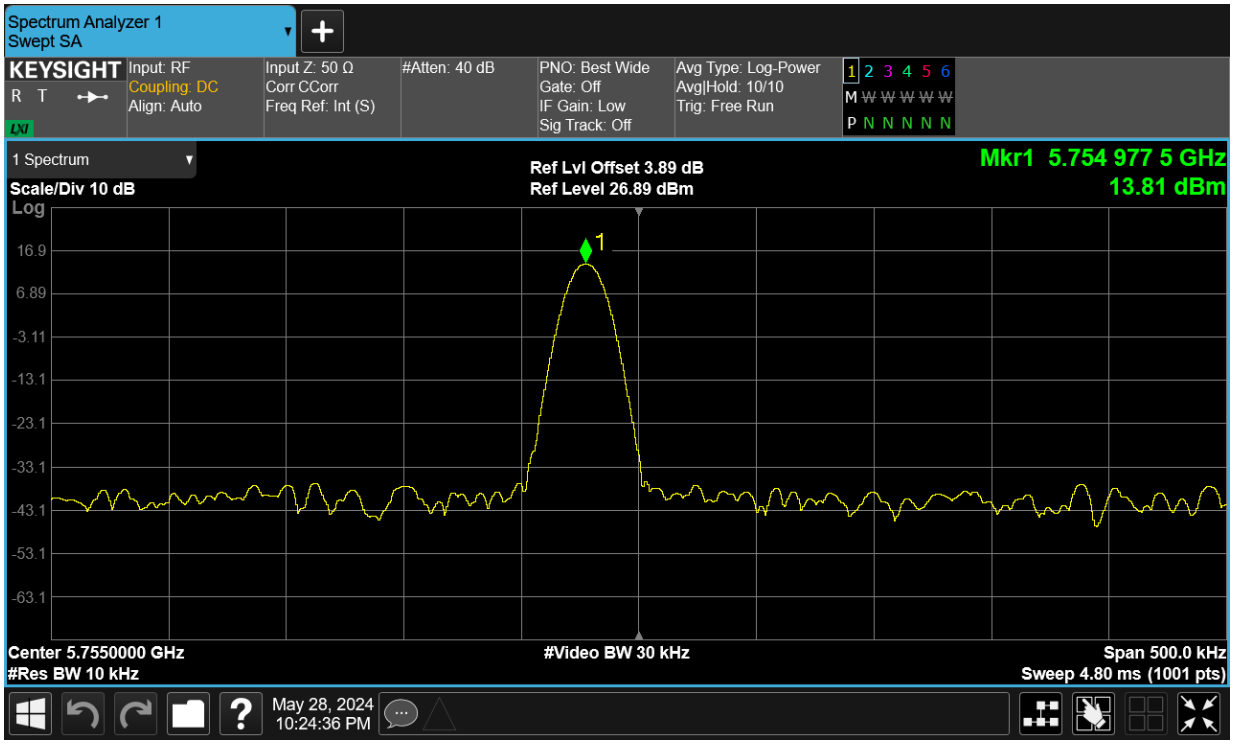


Freq. Stability NVLT ac80 5775MHz Ant12

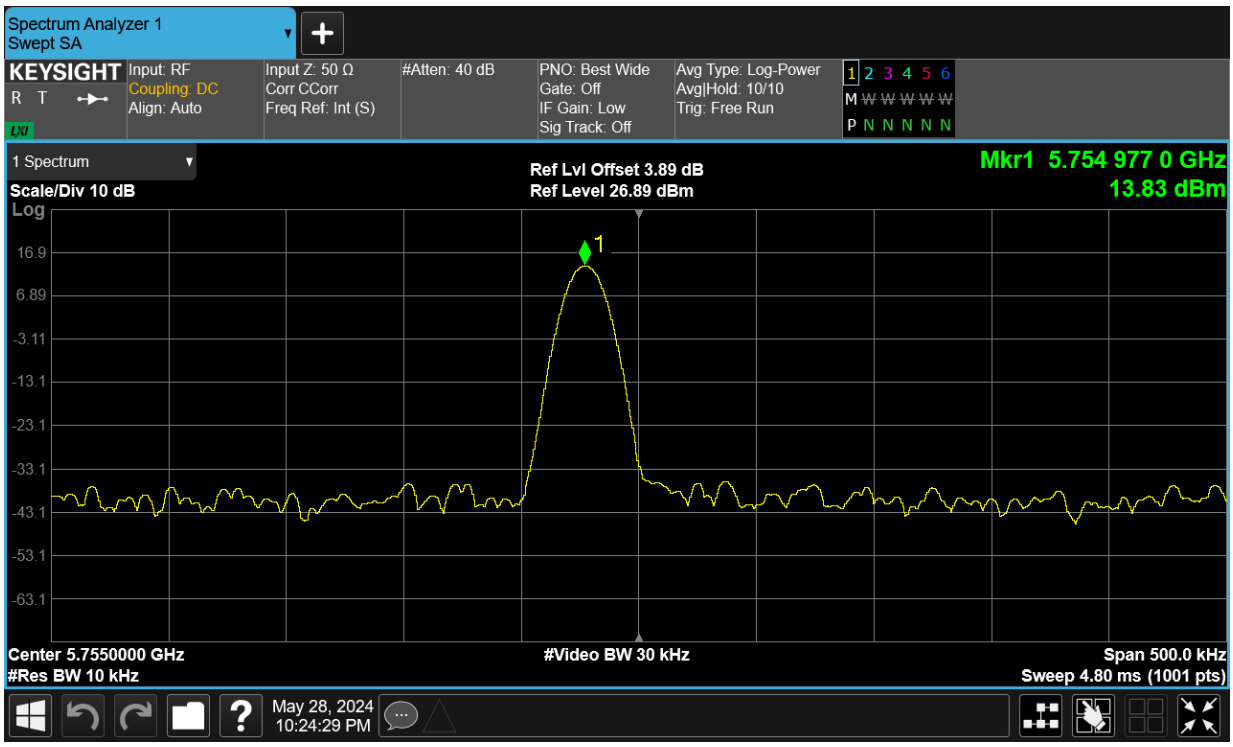
Freq. Stability NVNT ac80 5775MHz Ant12



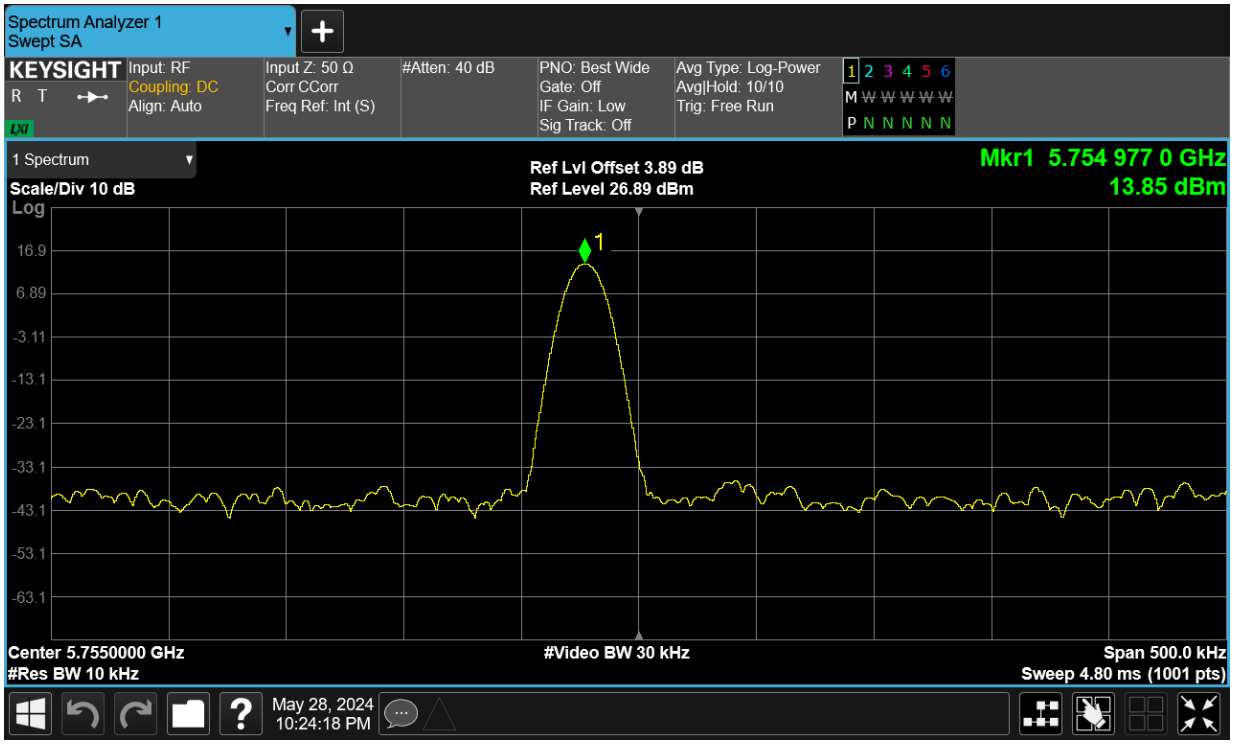
Freq. Stability HVNT n40 5755MHz Ant12



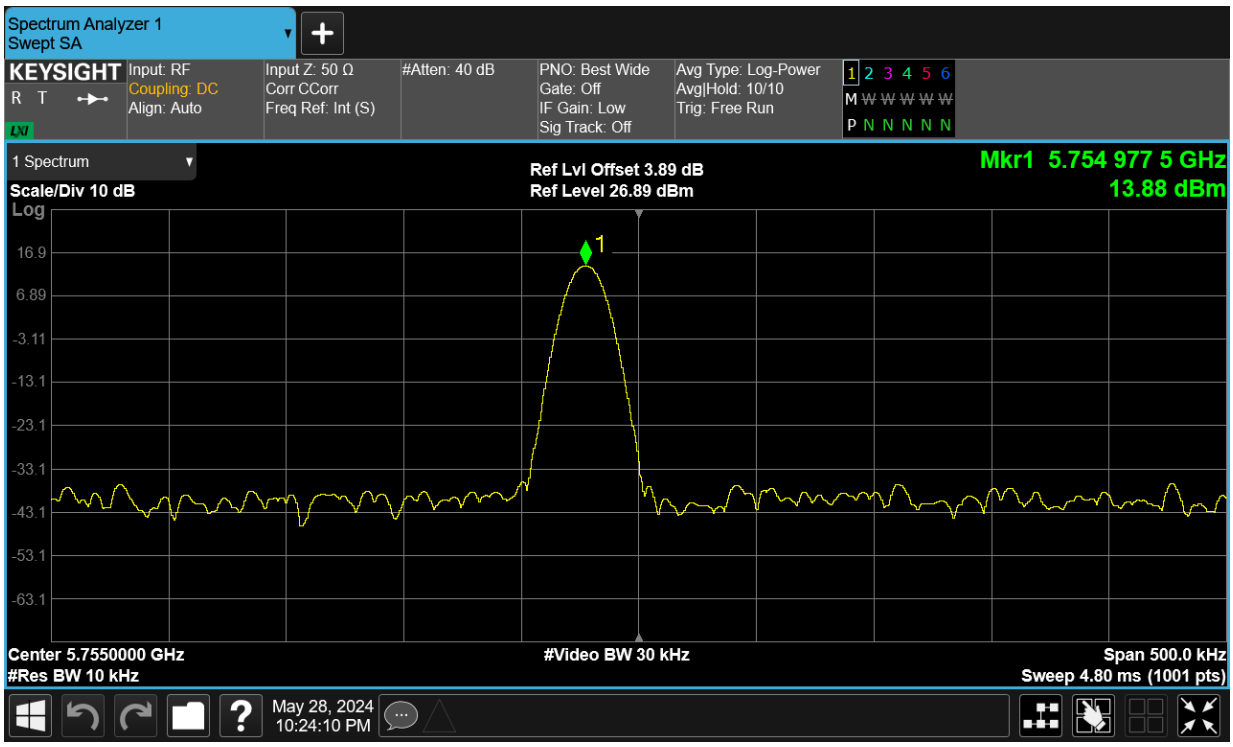
Freq. Stability LVNT n40 5755MHz Ant12



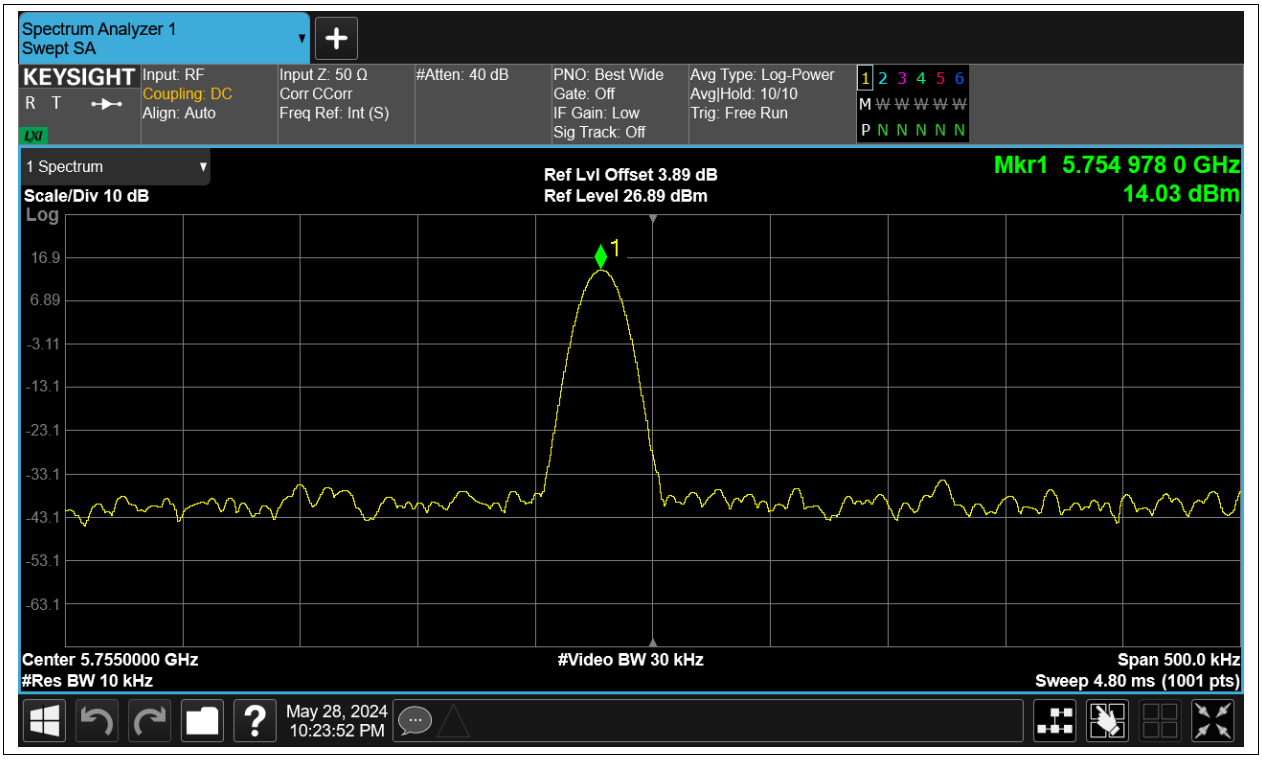
Freq. Stability NVHT n40 5755MHz Ant12



Freq. Stability NVLT n40 5755MHz Ant12



Freq. Stability NVNT n40 5755MHz Ant12

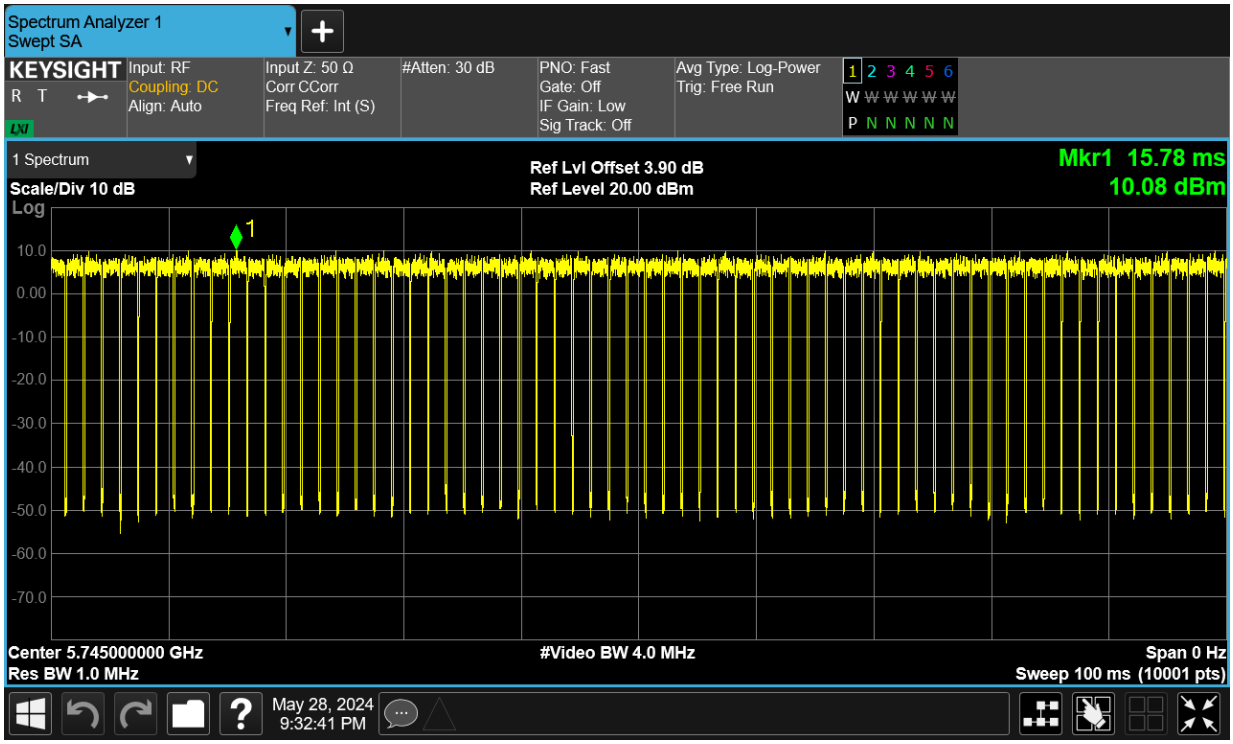

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 3.89 dB
Ref Level 26.89 dBm
Mkr1 5.754 978 0 GHz
14.03 dBm
16.9
6.89
-3.11
-13.1
-23.1
-33.1
-43.1
-53.1
-63.1
Center 5.7550000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 500.0 kHz
Sweep 4.80 ms (1001 pts)
May 28, 2024
10:23:52 PM

Duty Cycle

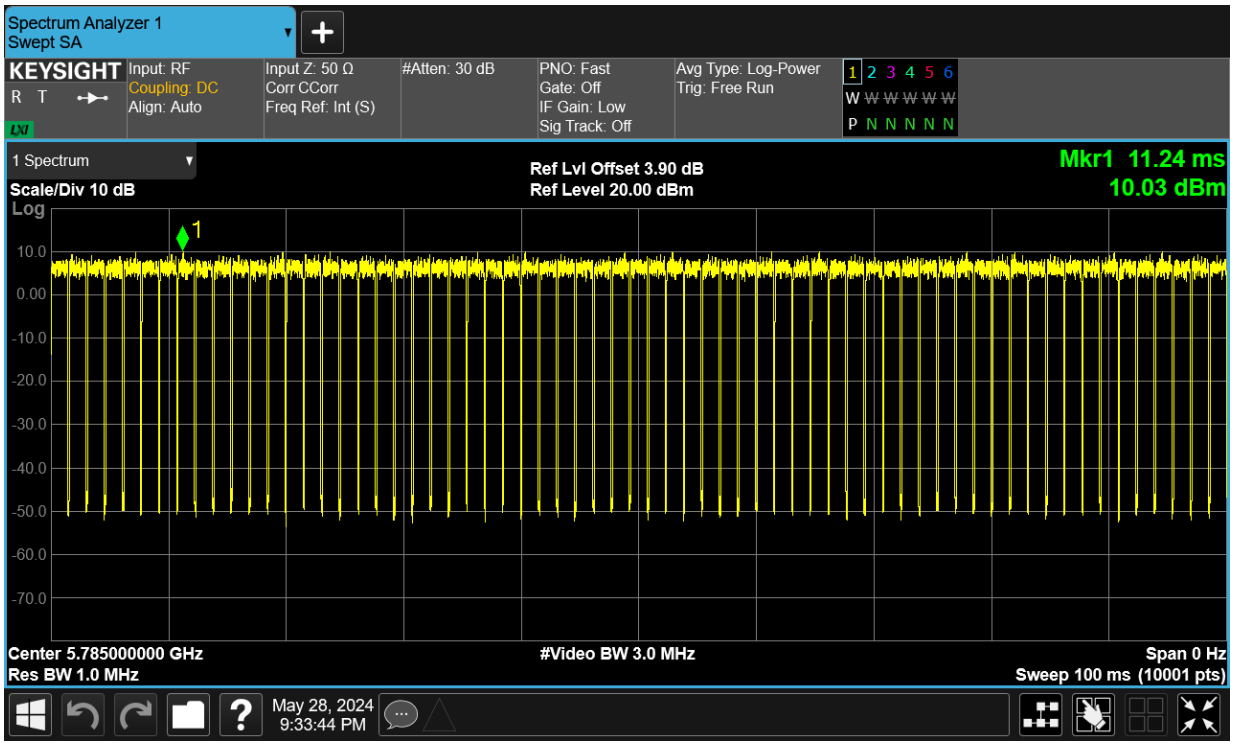
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant12	91.11	0.4
NVNT	a	5785	Ant12	91.17	0.4
NVNT	a	5825	Ant12	91.09	0.41
NVNT	ac20	5745	Ant12	89.61	0.48
NVNT	ac20	5785	Ant12	89.68	0.47
NVNT	ac20	5825	Ant12	89.61	0.48
NVNT	ac40	5755	Ant12	95.04	0.22
NVNT	ac40	5795	Ant12	81.29	0.9
NVNT	ac80	5775	Ant12	69.65	1.57
NVNT	n20	5745	Ant12	89.74	0.47
NVNT	n20	5785	Ant12	89.71	0.47
NVNT	n20	5825	Ant12	89.51	0.48
NVNT	n40	5755	Ant12	81.51	0.89
NVNT	n40	5795	Ant12	81.72	0.88

Test Graphs

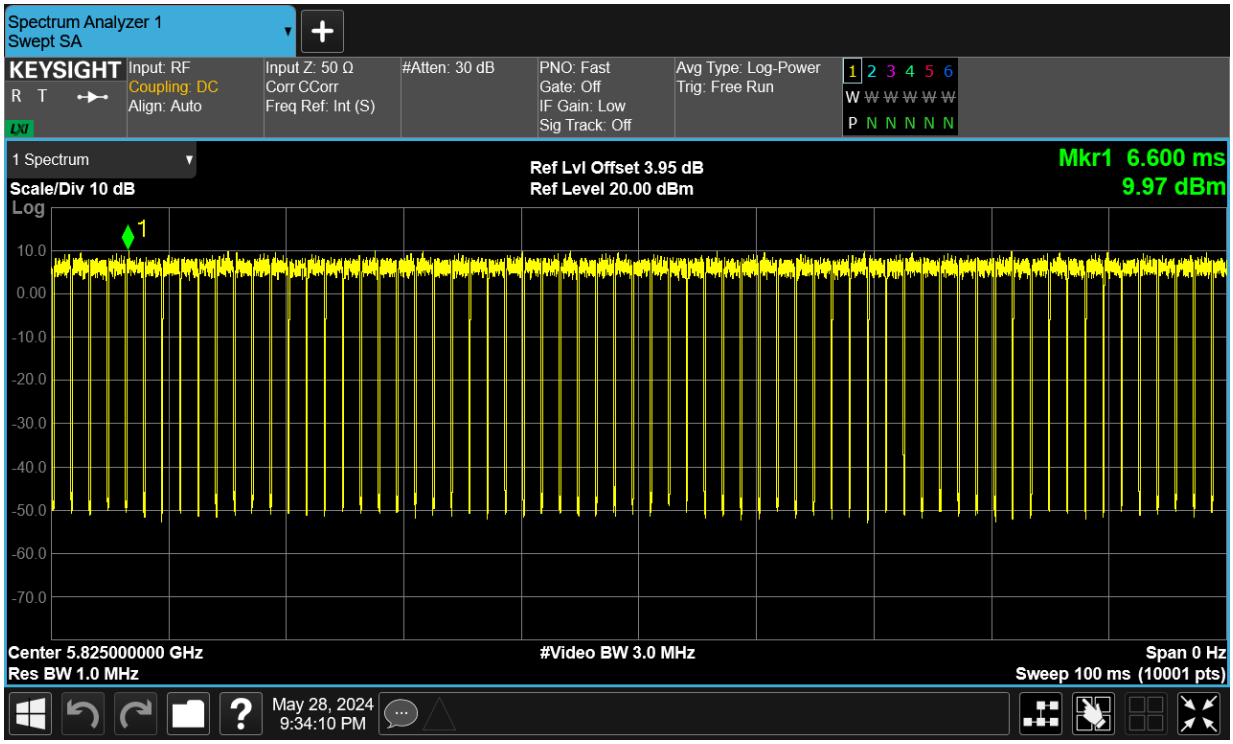
Duty Cycle NVNT a 5745MHz Ant12



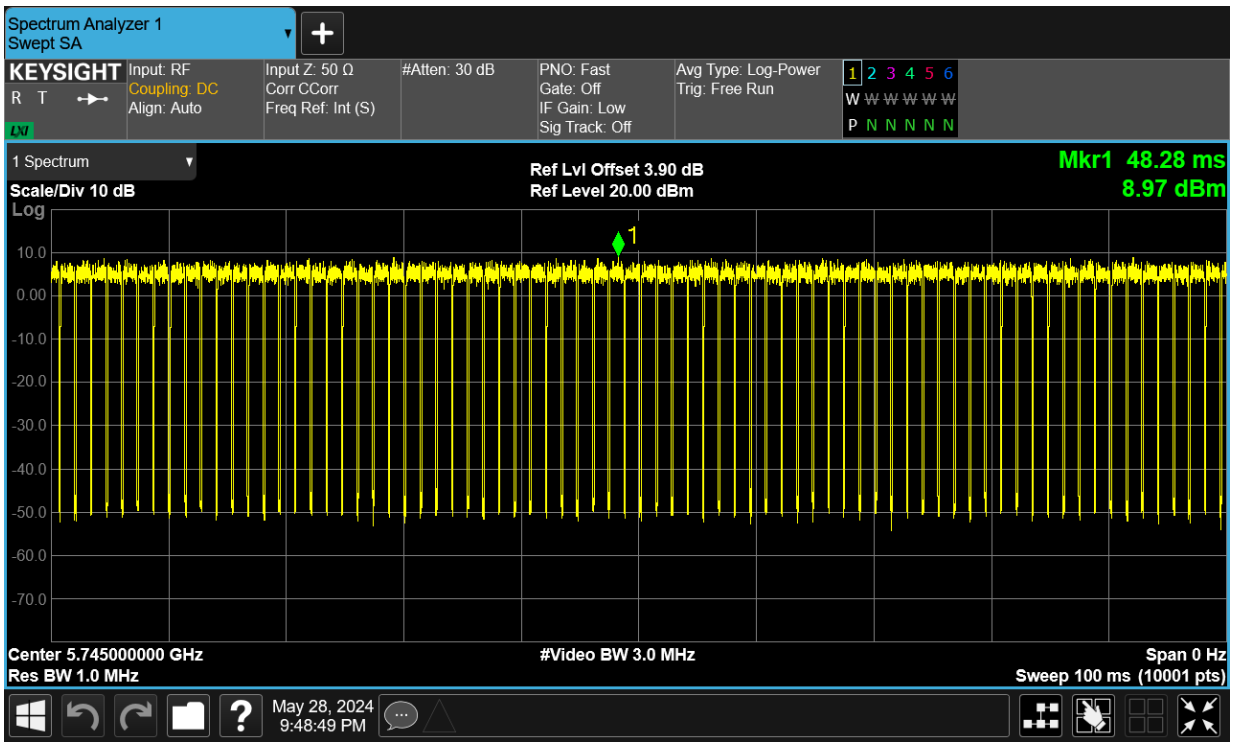
Duty Cycle NVNT a 5785MHz Ant12



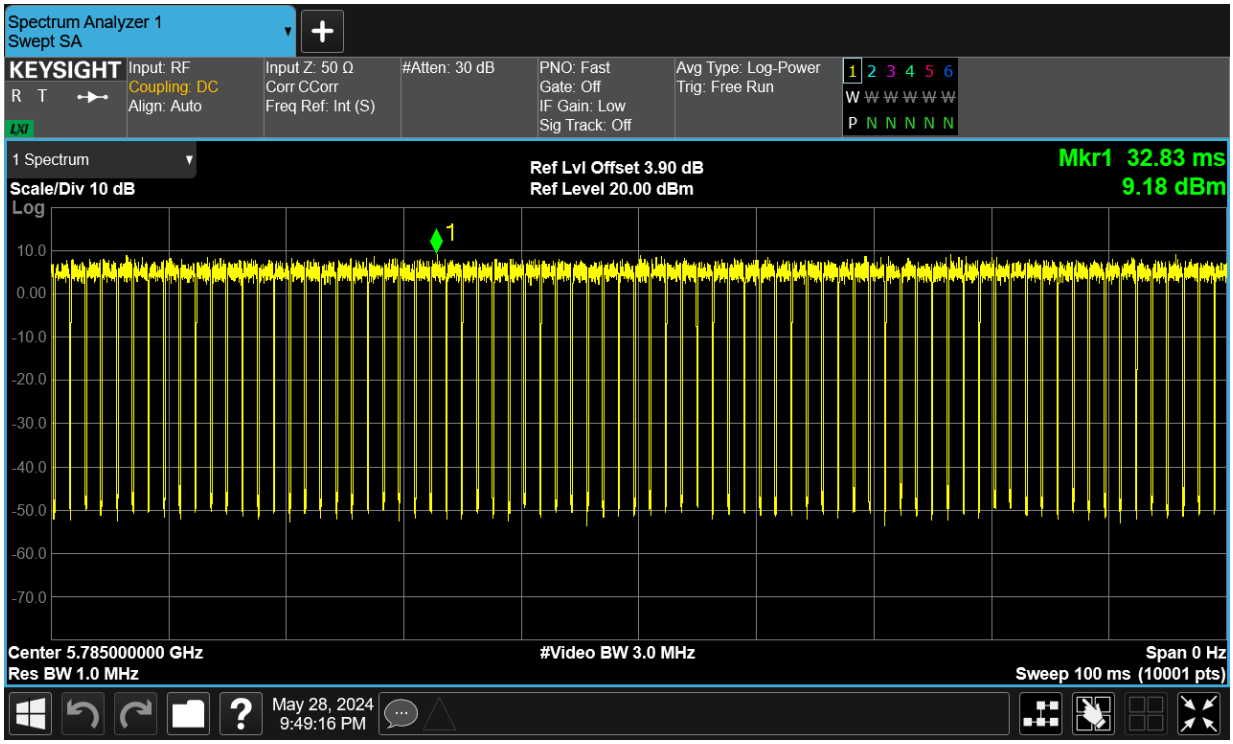
Duty Cycle NVNT a 5825MHz Ant12



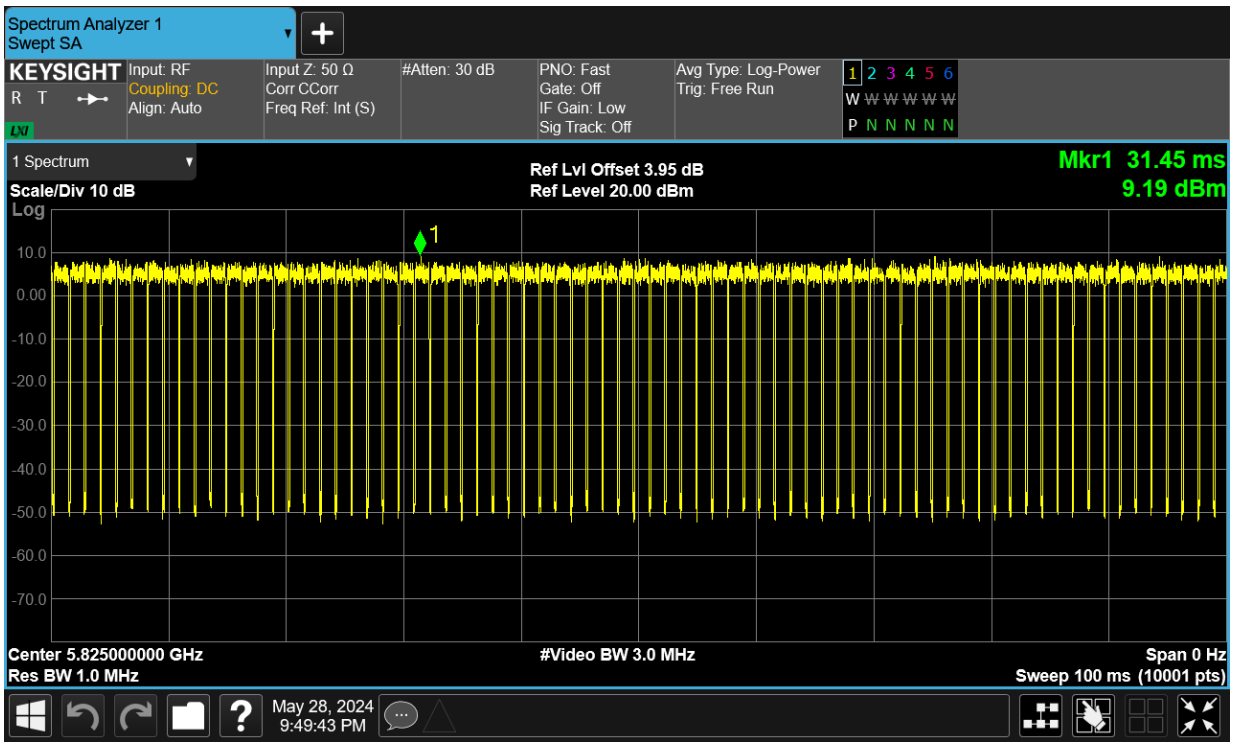
Duty Cycle NVNT ac20 5745MHz Ant12



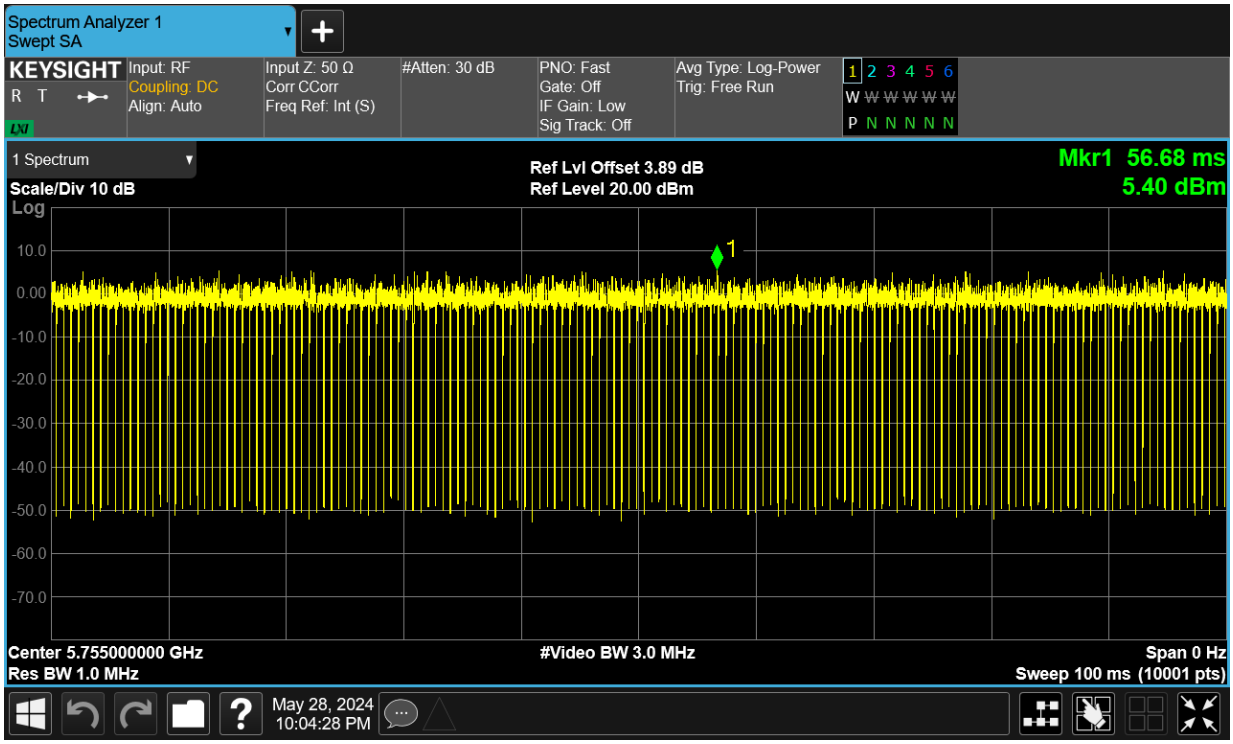
Duty Cycle NVNT ac20 5785MHz Ant12



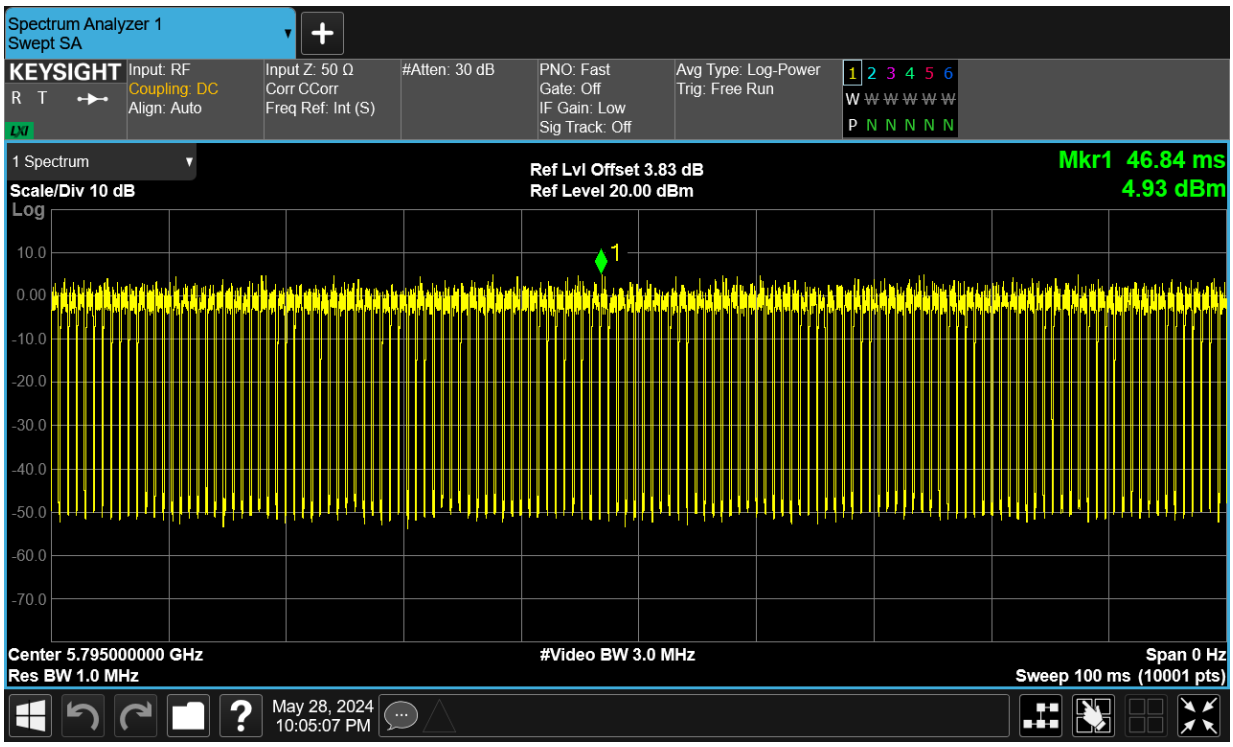
Duty Cycle NVNT ac20 5825MHz Ant12



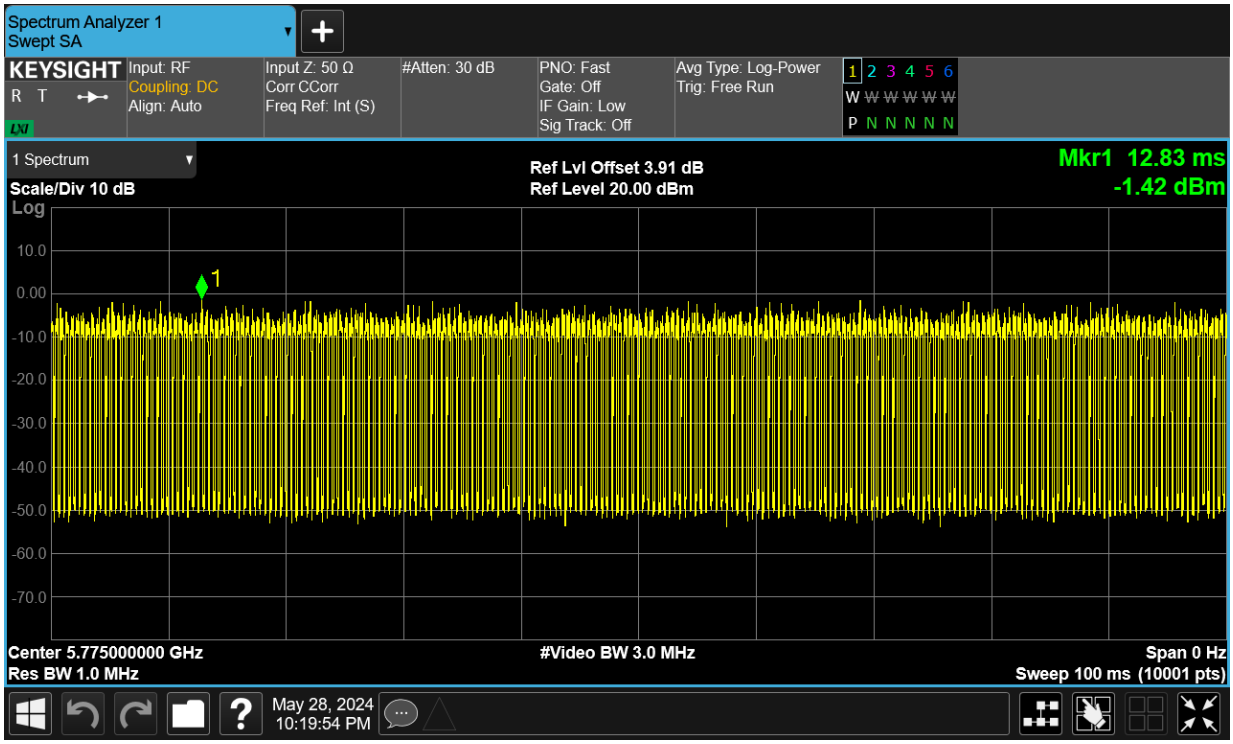
Duty Cycle NVNT ac40 5755MHz Ant12



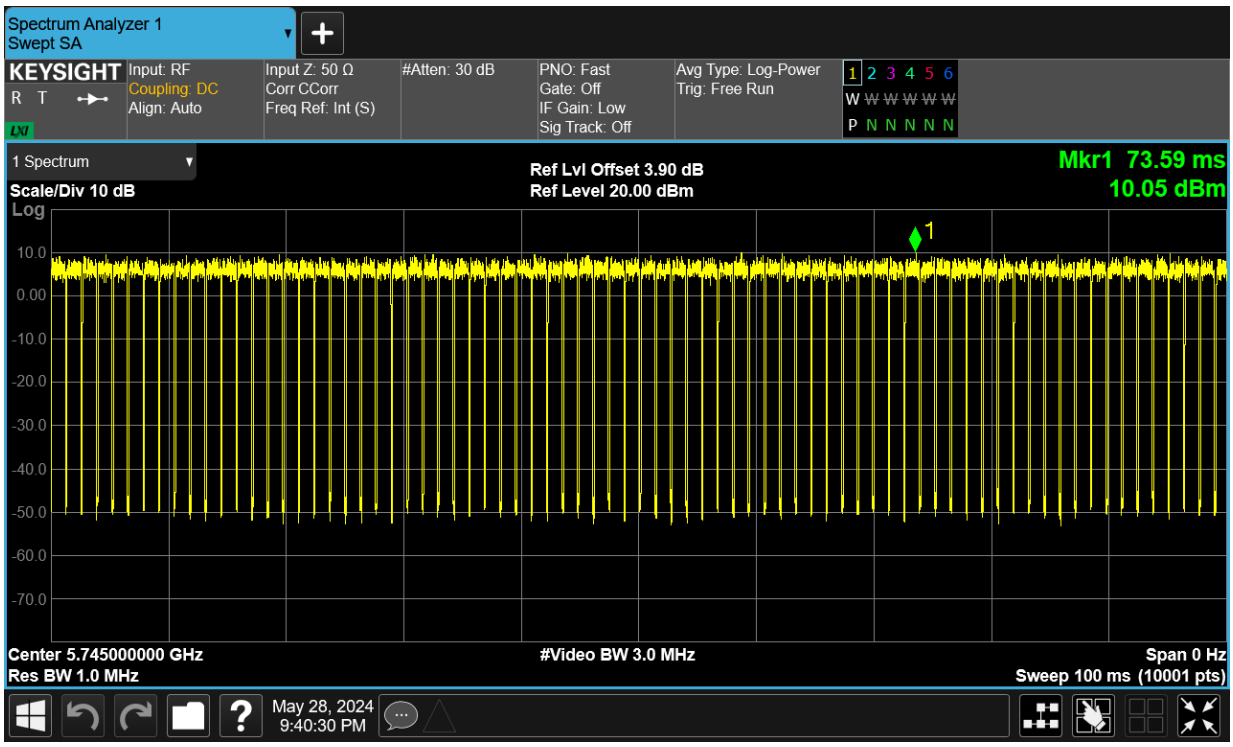
Duty Cycle NVNT ac40 5795MHz Ant12



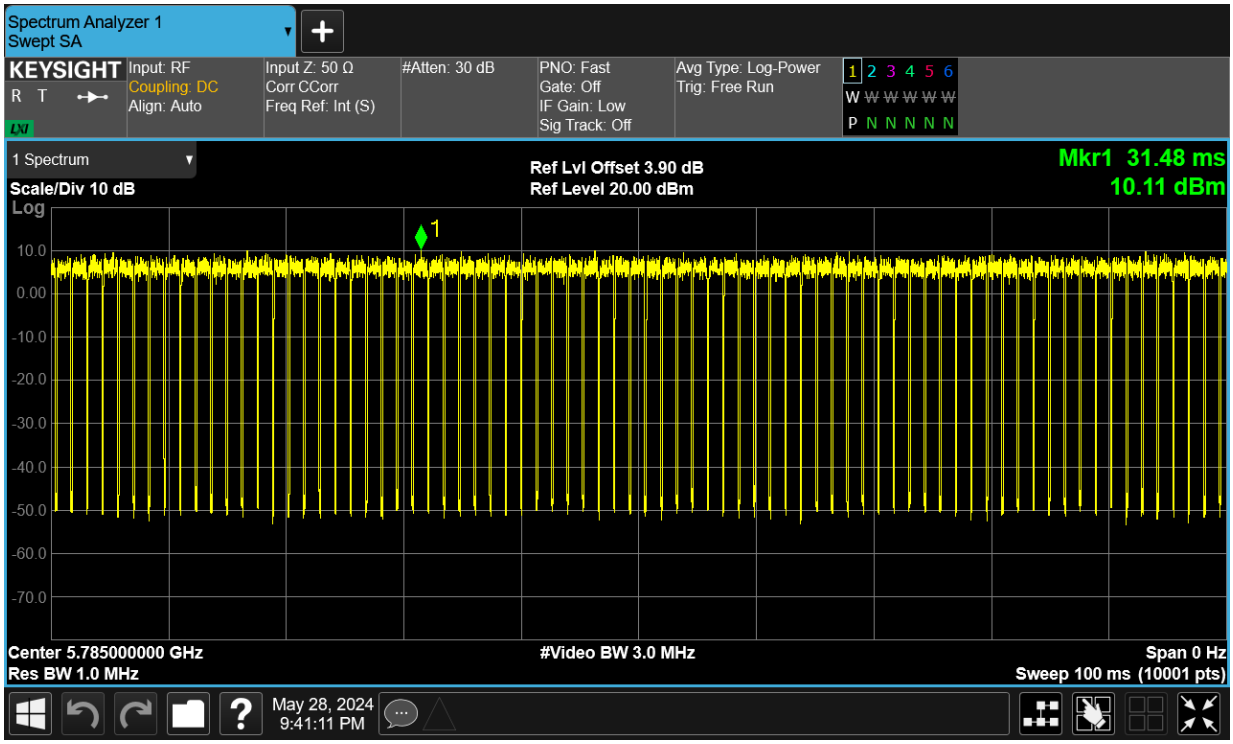
Duty Cycle NVNT ac80 5775MHz Ant12



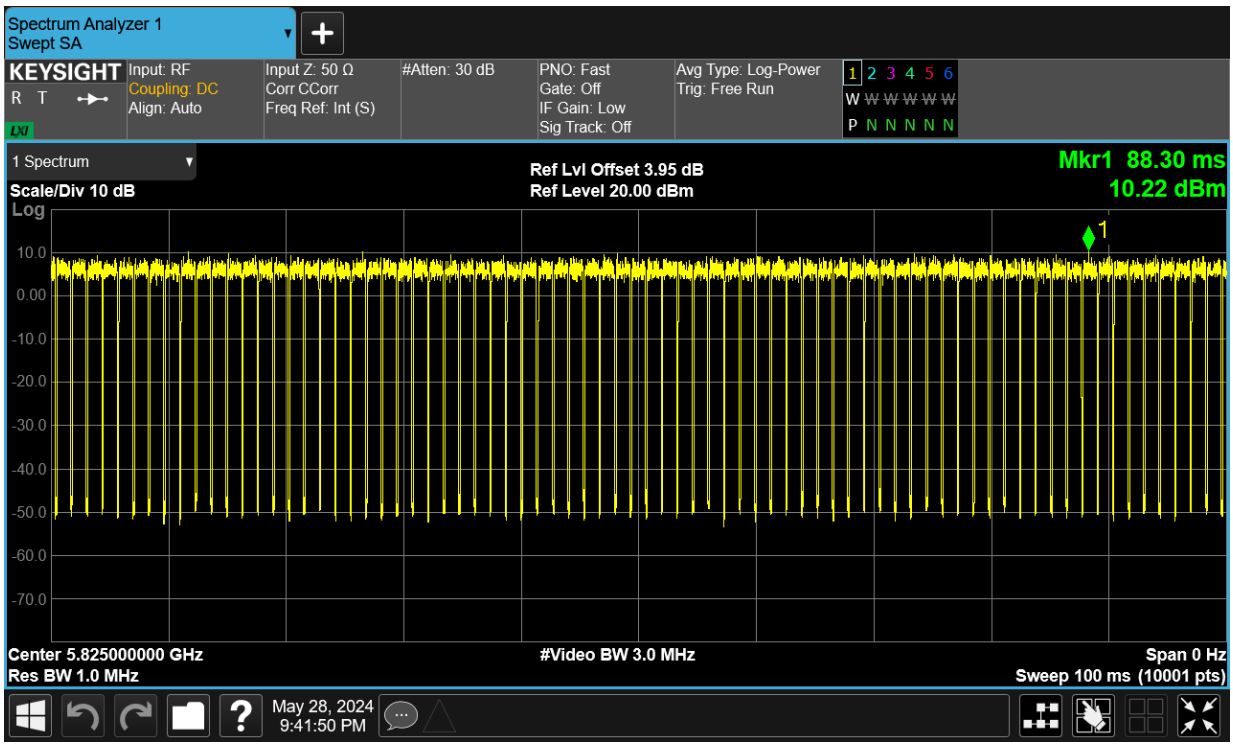
Duty Cycle NVNT n20 5745MHz Ant12



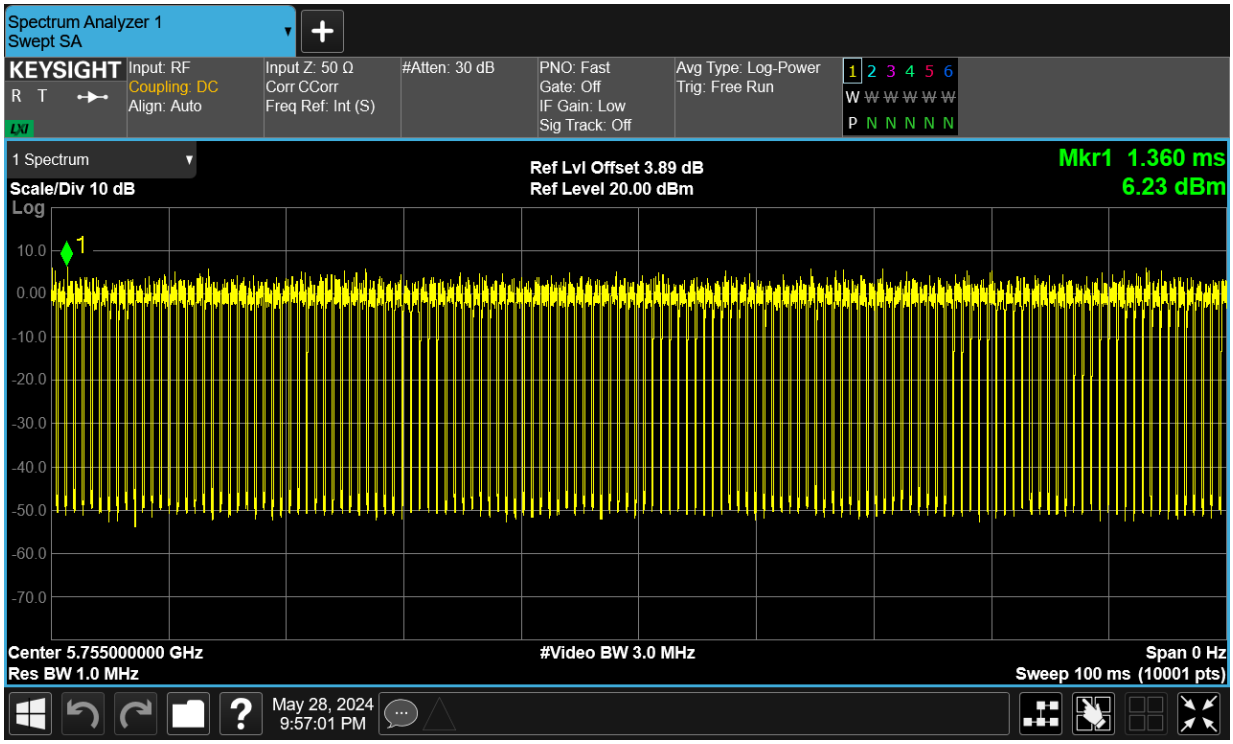
Duty Cycle NVNT n20 5785MHz Ant12



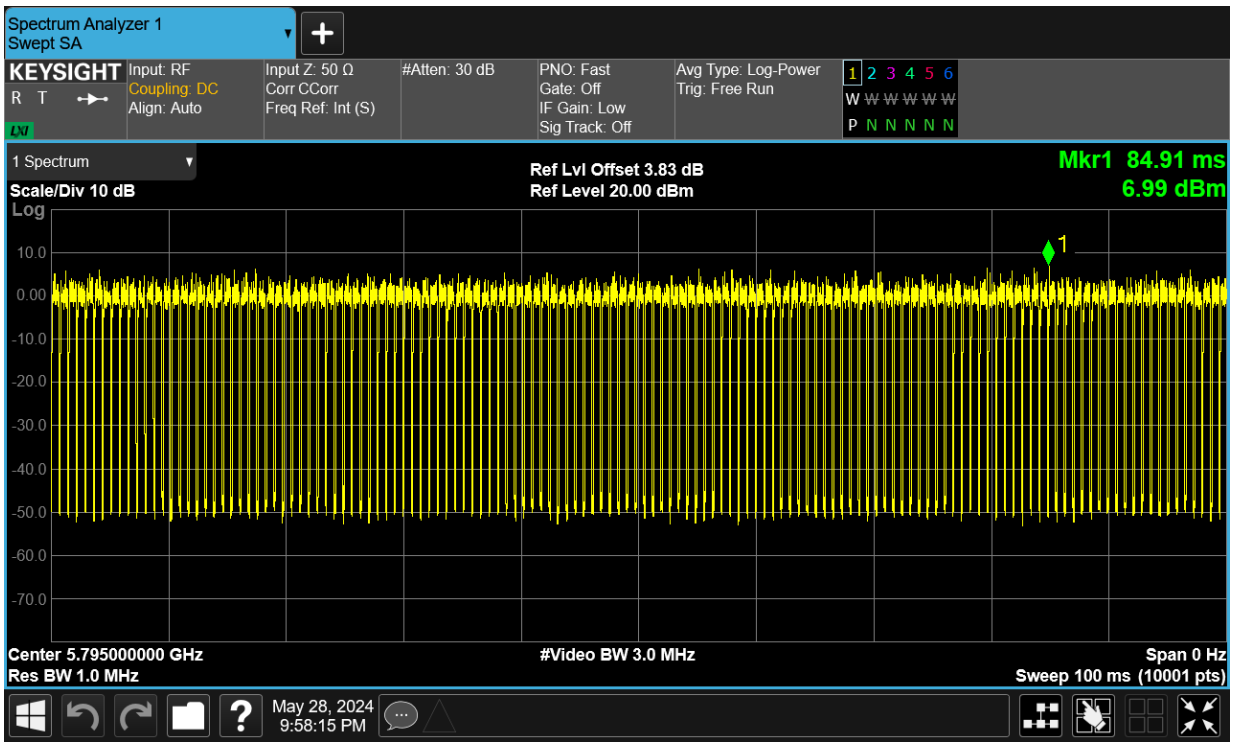
Duty Cycle NVNT n20 5825MHz Ant12



Duty Cycle NVNT n40 5755MHz Ant12



Duty Cycle NVNT n40 5795MHz Ant12



Maximum Conducted Output Power

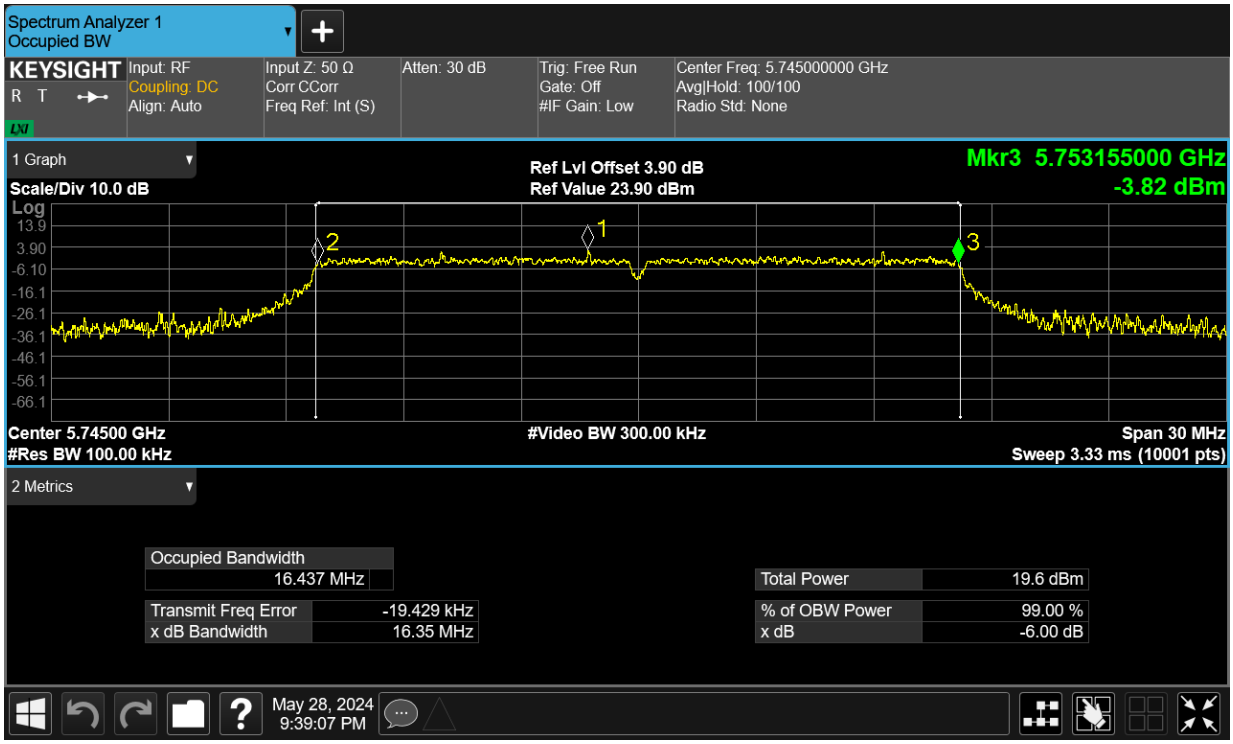
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant12	14.57	0.4	14.97	30	Pass
NVNT	a	5785	Ant12	14.17	0.4	14.57	30	Pass
NVNT	a	5825	Ant12	15.05	0.41	15.46	30	Pass
NVNT	ac20	5745	Ant12	13.67	0.48	14.15	30	Pass
NVNT	ac20	5785	Ant12	13.35	0.47	13.82	30	Pass
NVNT	ac20	5825	Ant12	14.23	0.48	14.71	30	Pass
NVNT	ac40	5755	Ant12	13.83	0.22	14.05	30	Pass
NVNT	ac40	5795	Ant12	13.87	0.9	14.77	30	Pass
NVNT	ac80	5775	Ant12	11.19	1.57	12.76	30	Pass
NVNT	n20	5745	Ant12	14.58	0.47	15.05	30	Pass
NVNT	n20	5785	Ant12	14.15	0.47	14.62	30	Pass
NVNT	n20	5825	Ant12	15.1	0.48	15.58	30	Pass
NVNT	n40	5755	Ant12	14.47	0.89	15.36	30	Pass
NVNT	n40	5795	Ant12	14.73	0.88	15.61	30	Pass

-6dB Bandwidth

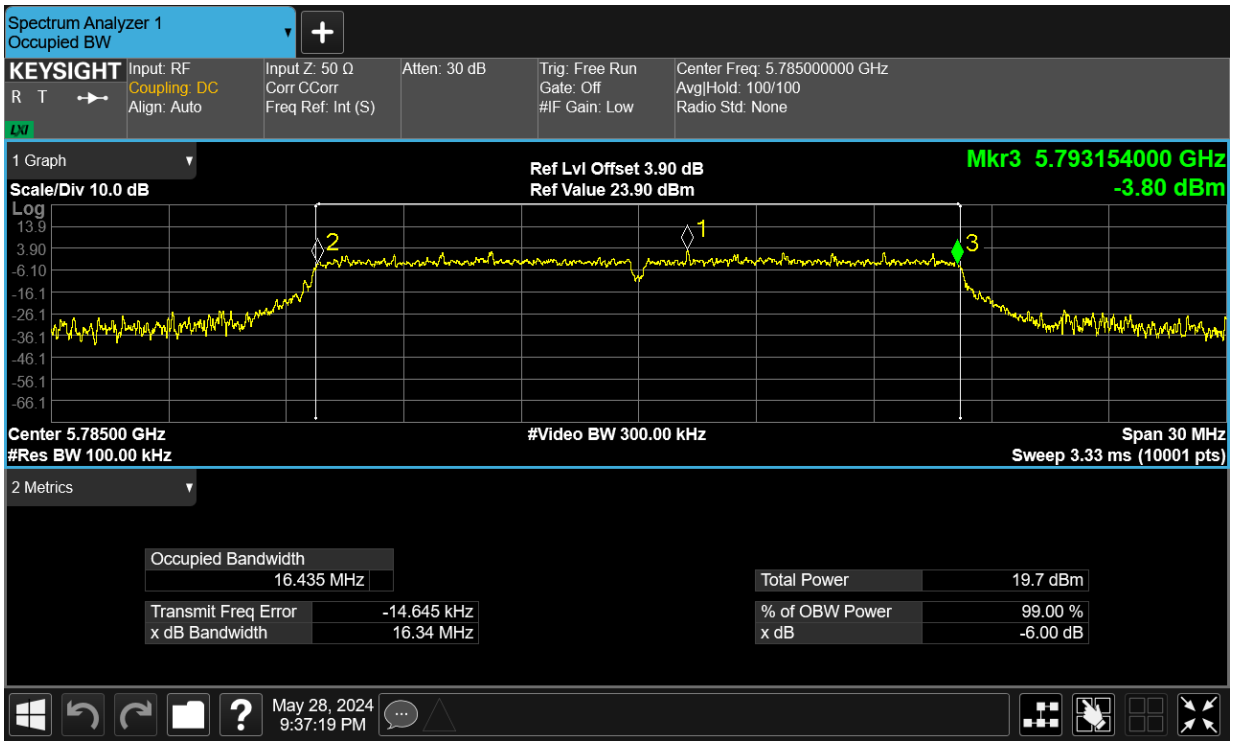
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	a	5745	Ant12	16.348	0.5	Pass
NVNT	a	5785	Ant12	16.338	0.5	Pass
NVNT	a	5825	Ant12	16.334	0.5	Pass
NVNT	ac20	5745	Ant12	17.267	0.5	Pass
NVNT	ac20	5785	Ant12	17.164	0.5	Pass
NVNT	ac20	5825	Ant12	17.105	0.5	Pass
NVNT	ac40	5755	Ant12	35.432	0.5	Pass
NVNT	ac40	5795	Ant12	35.517	0.5	Pass
NVNT	ac80	5775	Ant12	75.559	0.5	Pass
NVNT	n20	5745	Ant12	17.235	0.5	Pass
NVNT	n20	5785	Ant12	17.243	0.5	Pass
NVNT	n20	5825	Ant12	17.416	0.5	Pass
NVNT	n40	5755	Ant12	35.835	0.5	Pass
NVNT	n40	5795	Ant12	35.233	0.5	Pass

Test Graphs

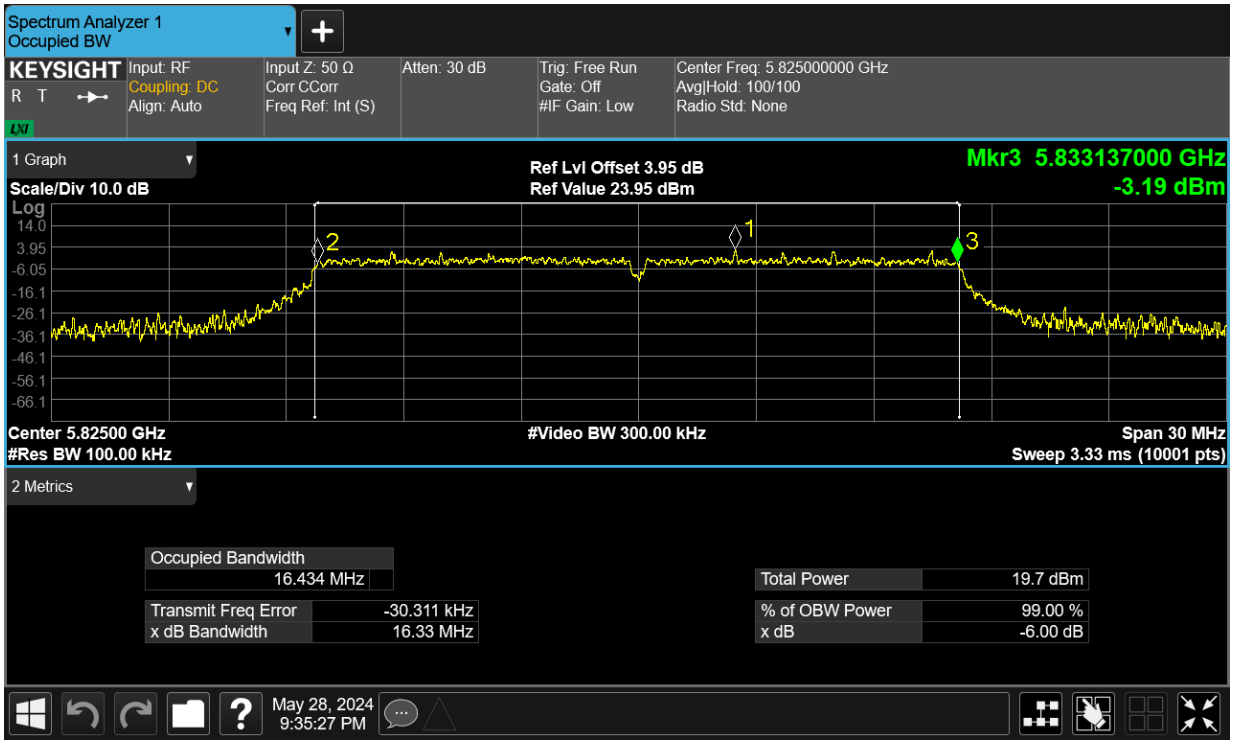
-6dB Bandwidth NVNT a 5745MHz Ant12



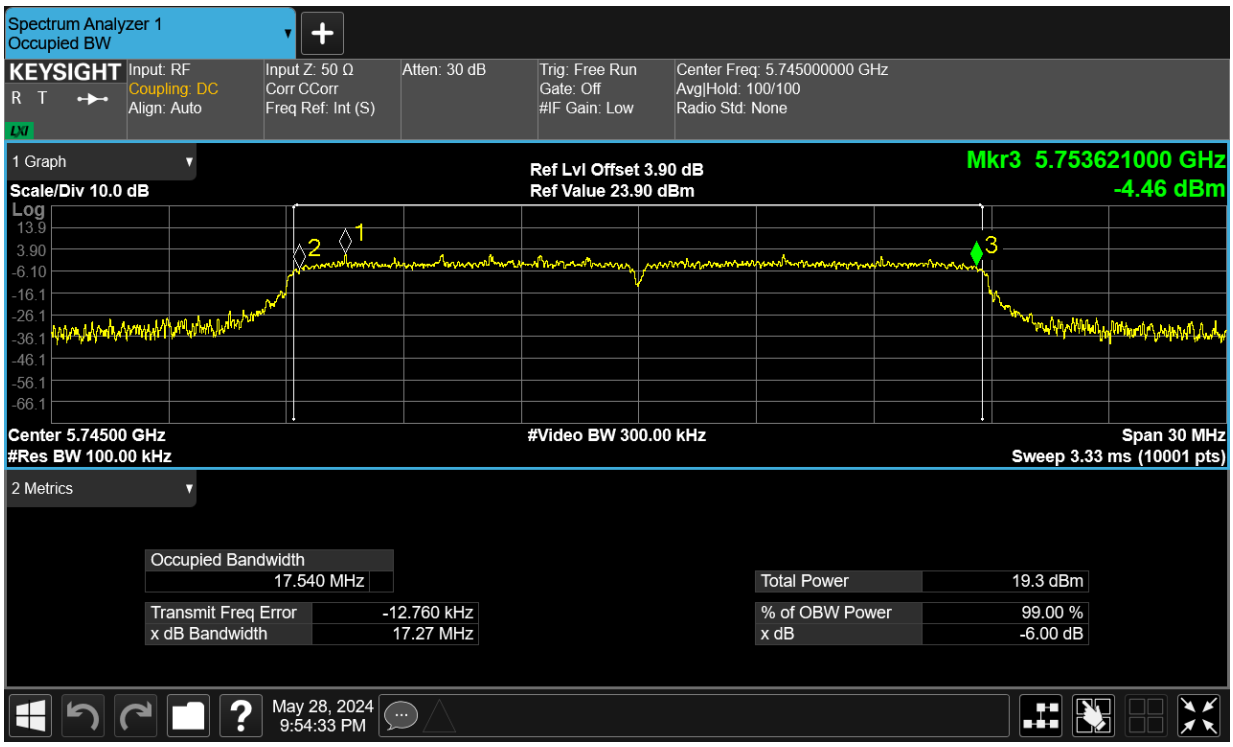
-6dB Bandwidth NVNT a 5785MHz Ant12



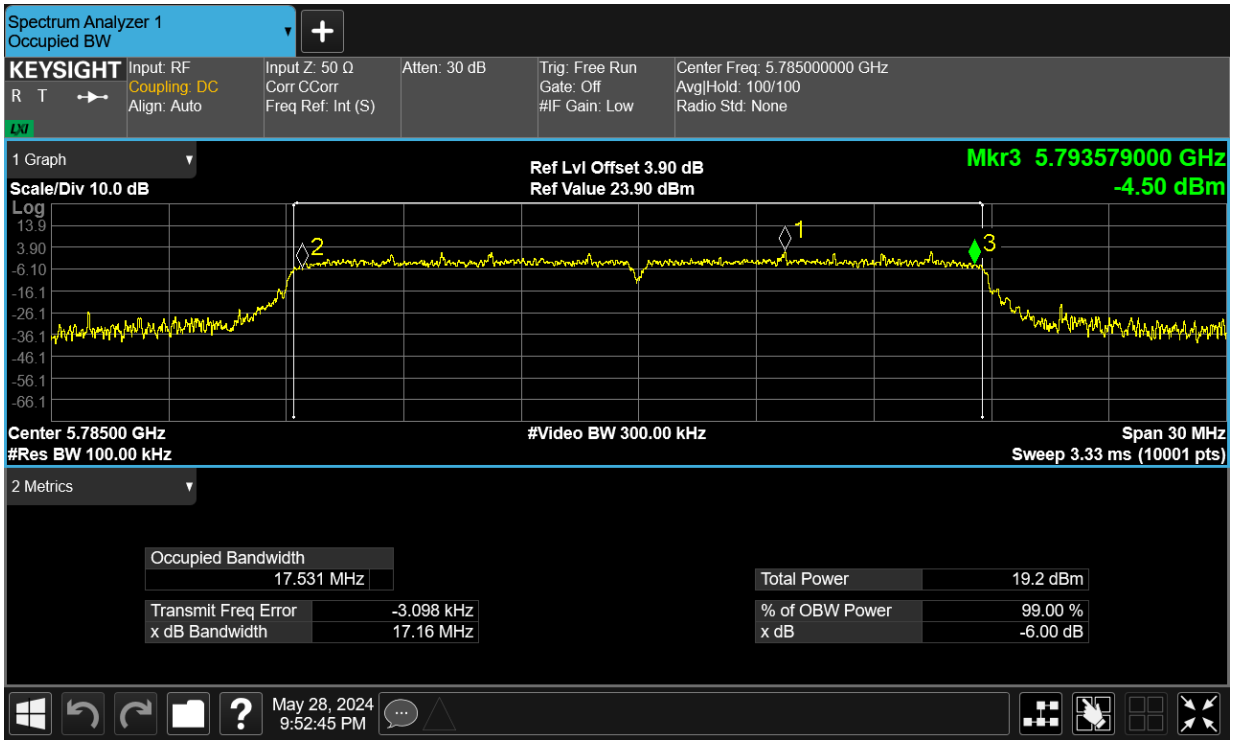
-6dB Bandwidth NVNT a 5825MHz Ant12



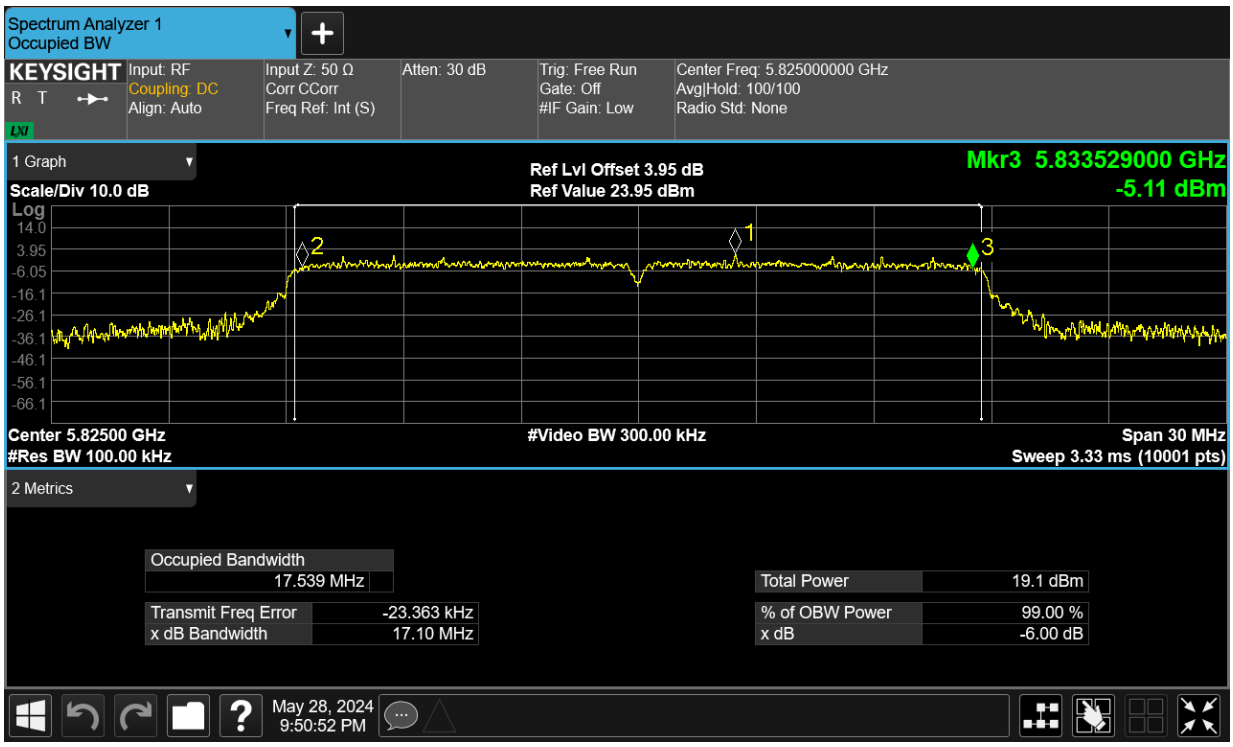
-6dB Bandwidth NVNT ac20 5745MHz Ant12



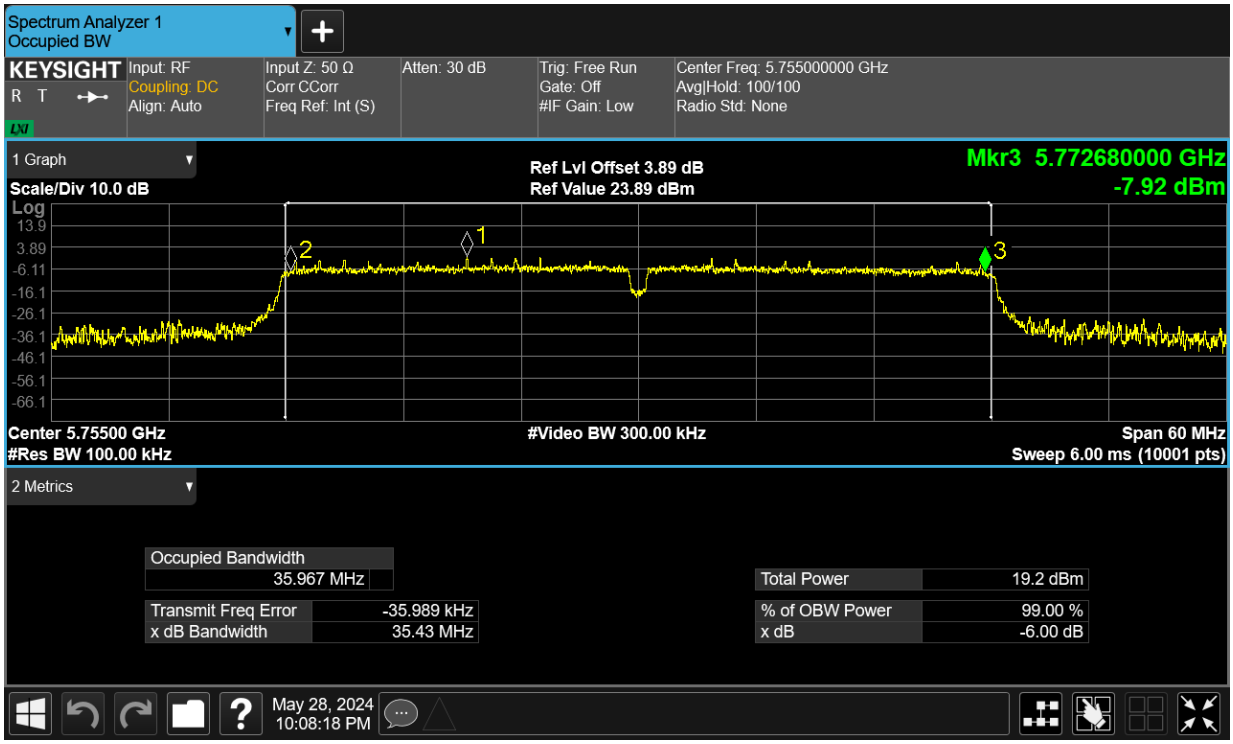
-6dB Bandwidth NVNT ac20 5785MHz Ant12



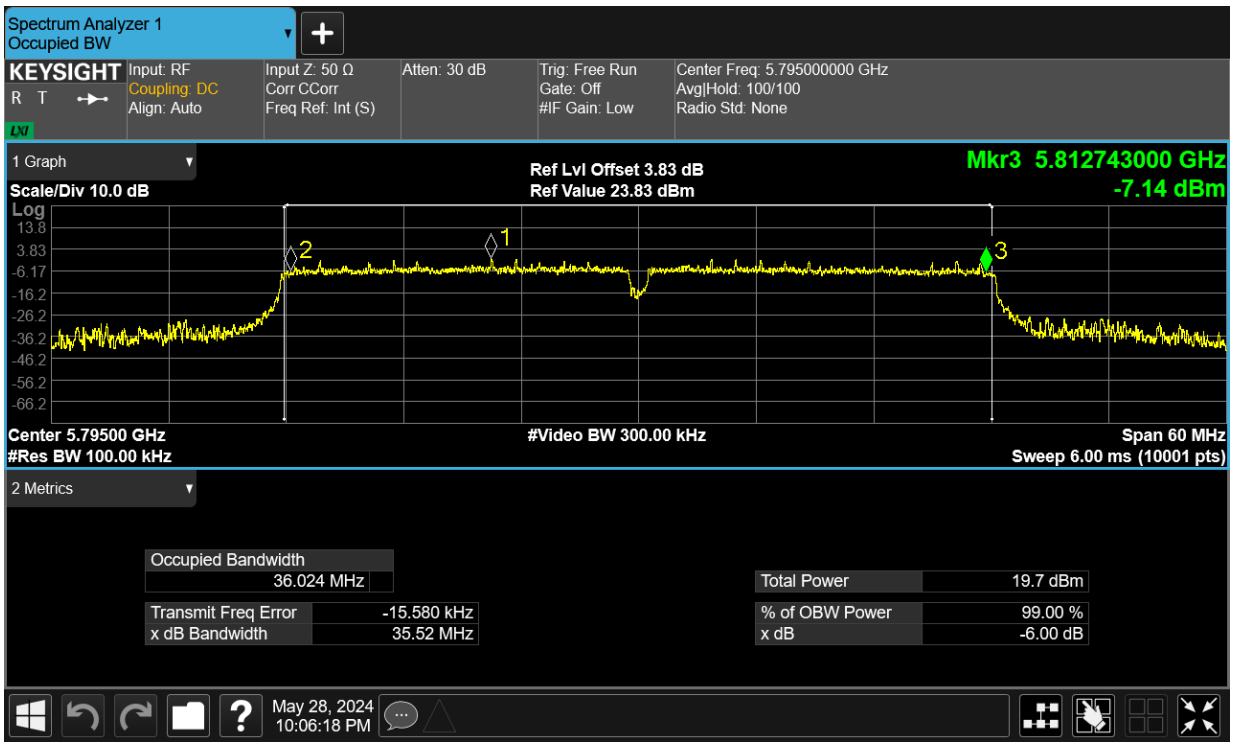
-6dB Bandwidth NVNT ac20 5825MHz Ant12



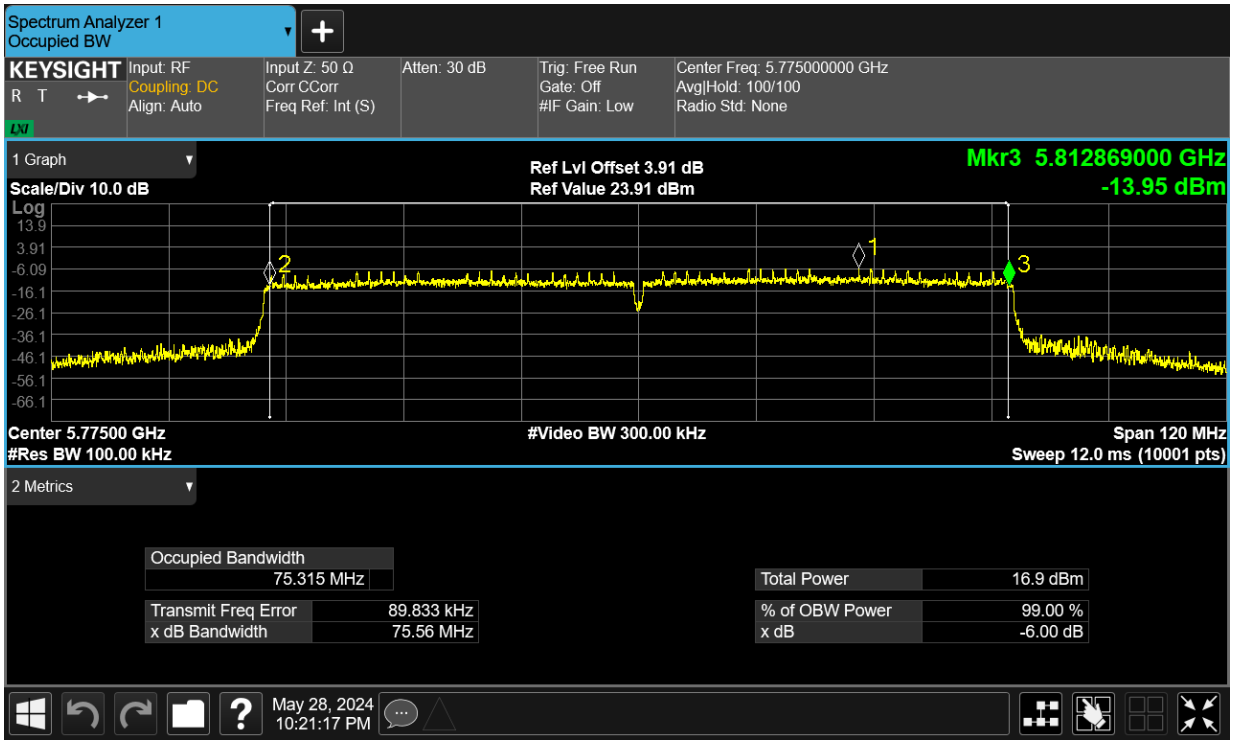
-6dB Bandwidth NVNT ac40 5755MHz Ant12



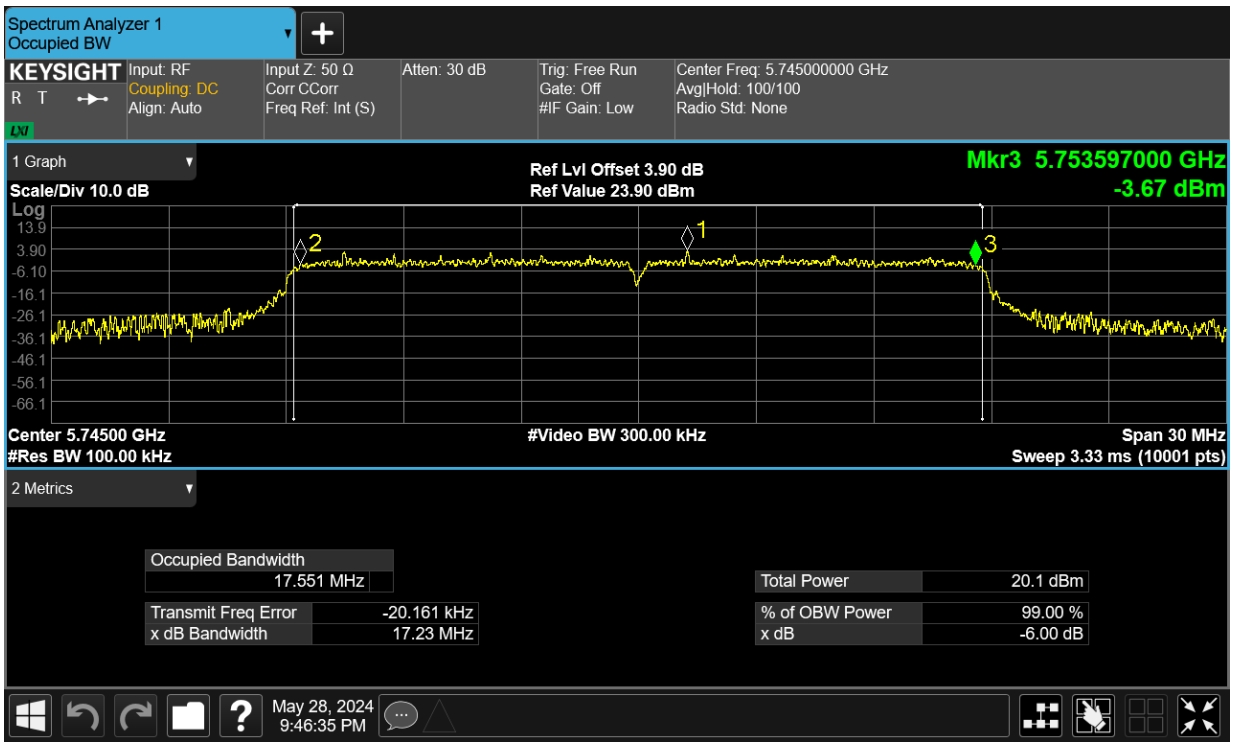
-6dB Bandwidth NVNT ac40 5795MHz Ant12



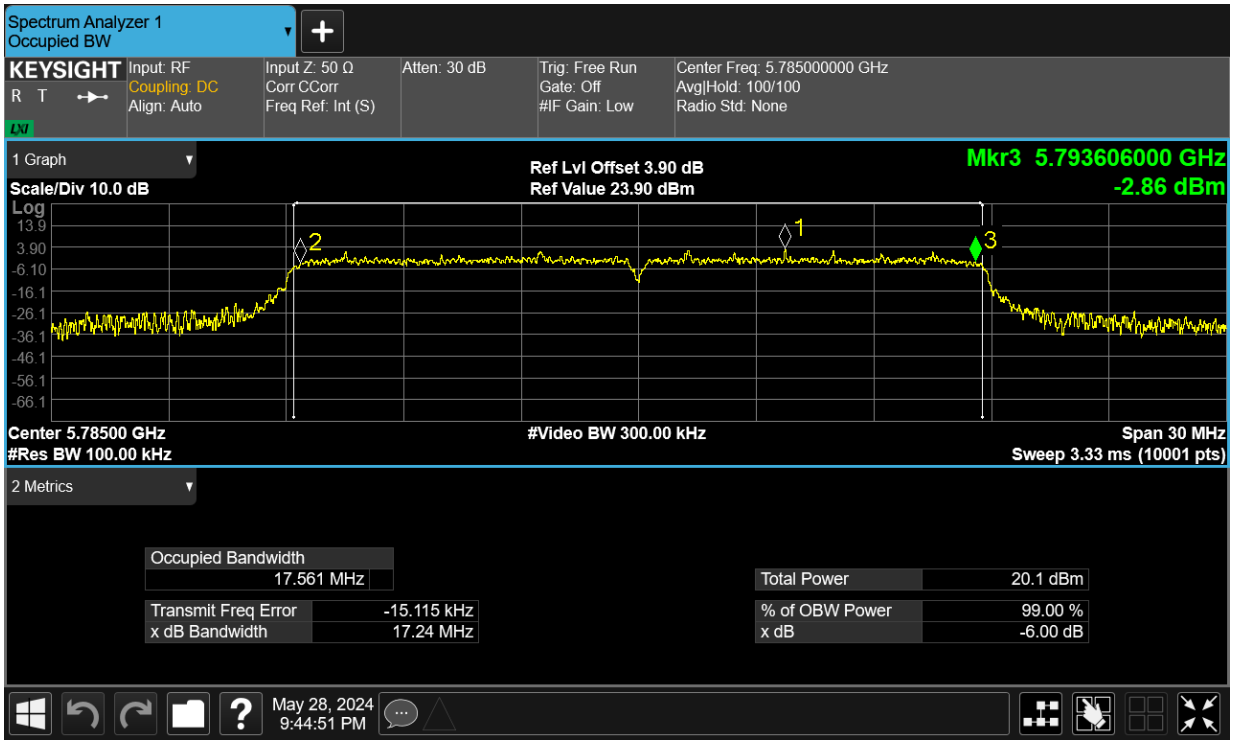
-6dB Bandwidth NVNT ac80 5775MHz Ant12



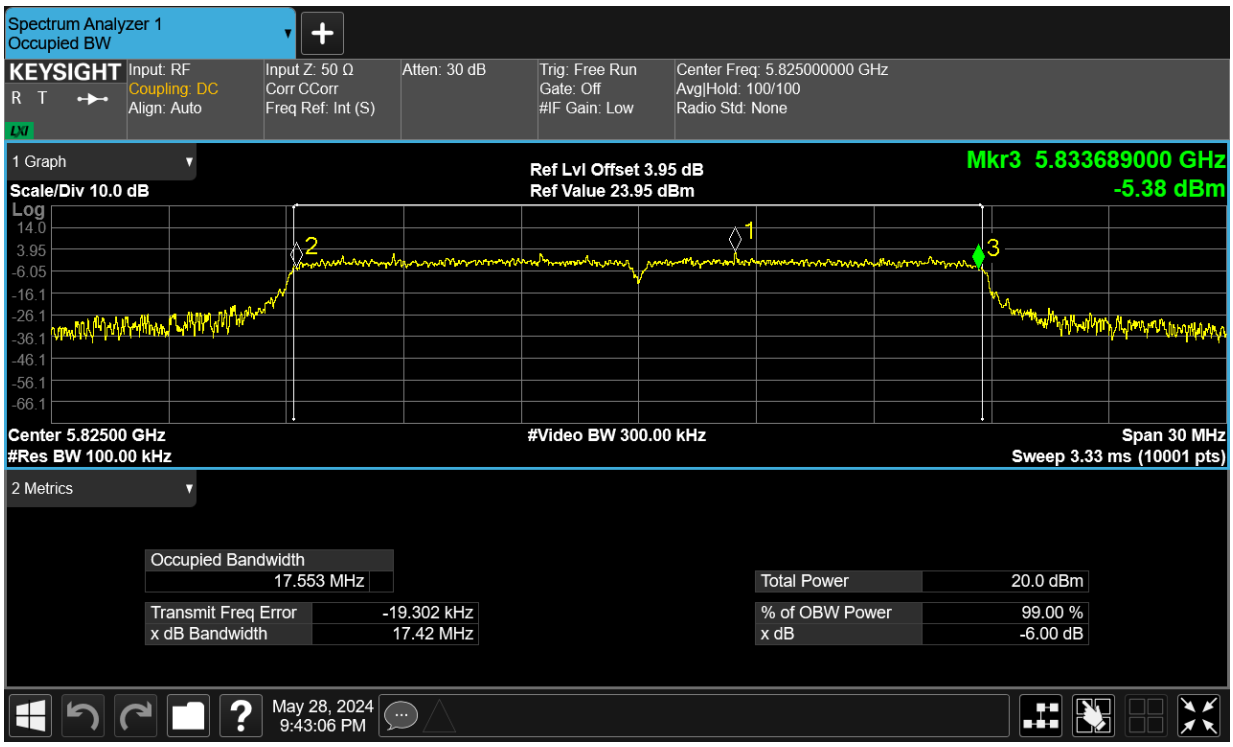
-6dB Bandwidth NVNT n20 5745MHz Ant12



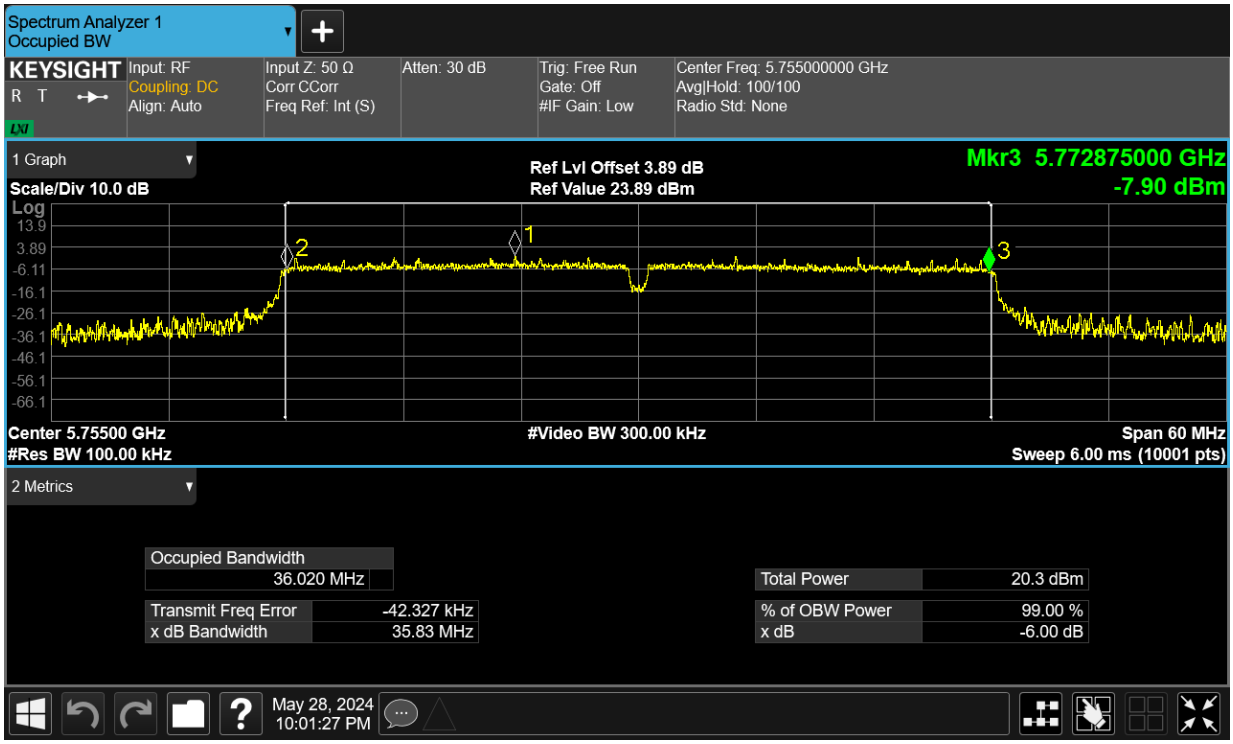
-6dB Bandwidth NVNT n20 5785MHz Ant12



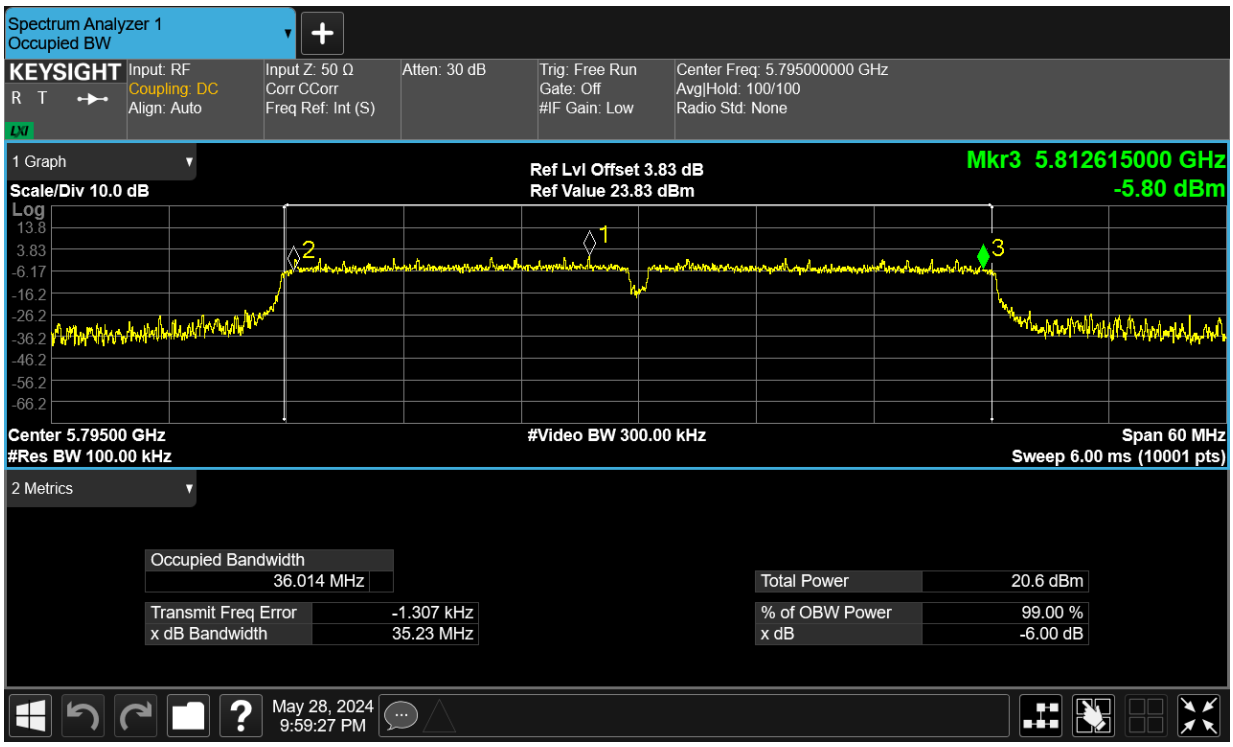
-6dB Bandwidth NVNT n20 5825MHz Ant12



-6dB Bandwidth NVNT n40 5755MHz Ant12



-6dB Bandwidth NVNT n40 5795MHz Ant12

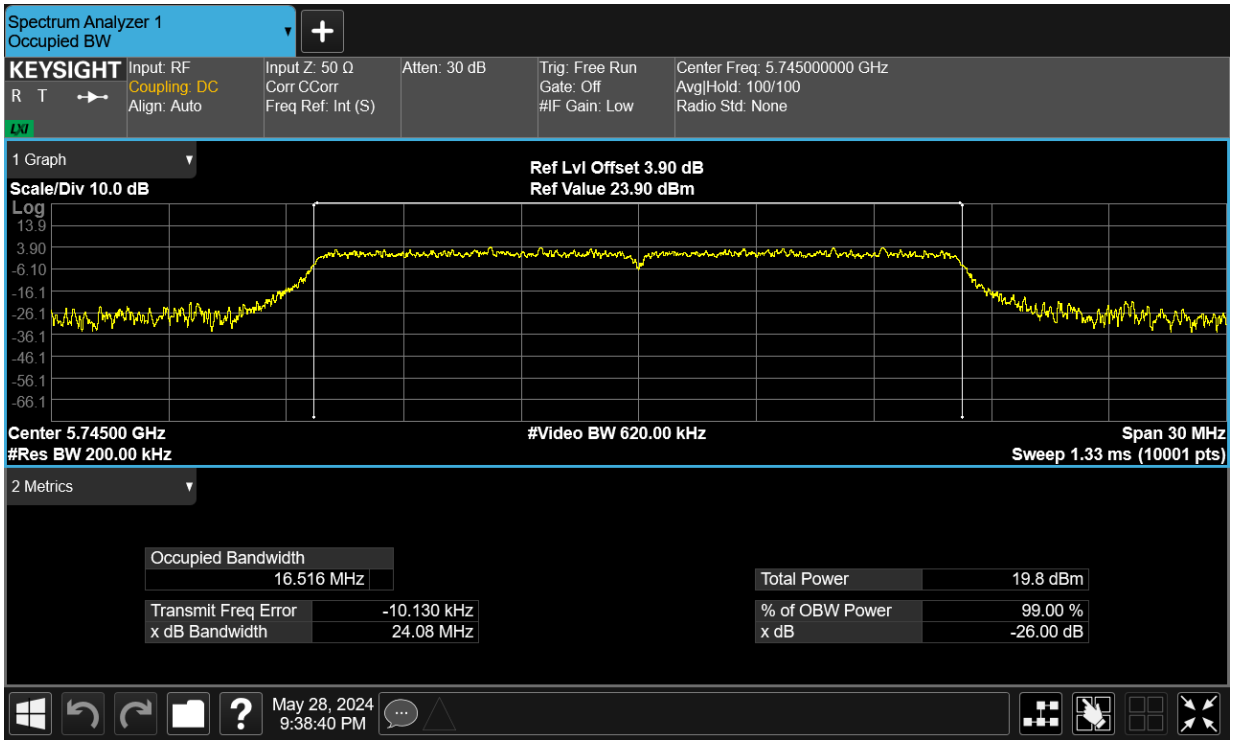


Occupied Channel Bandwidth

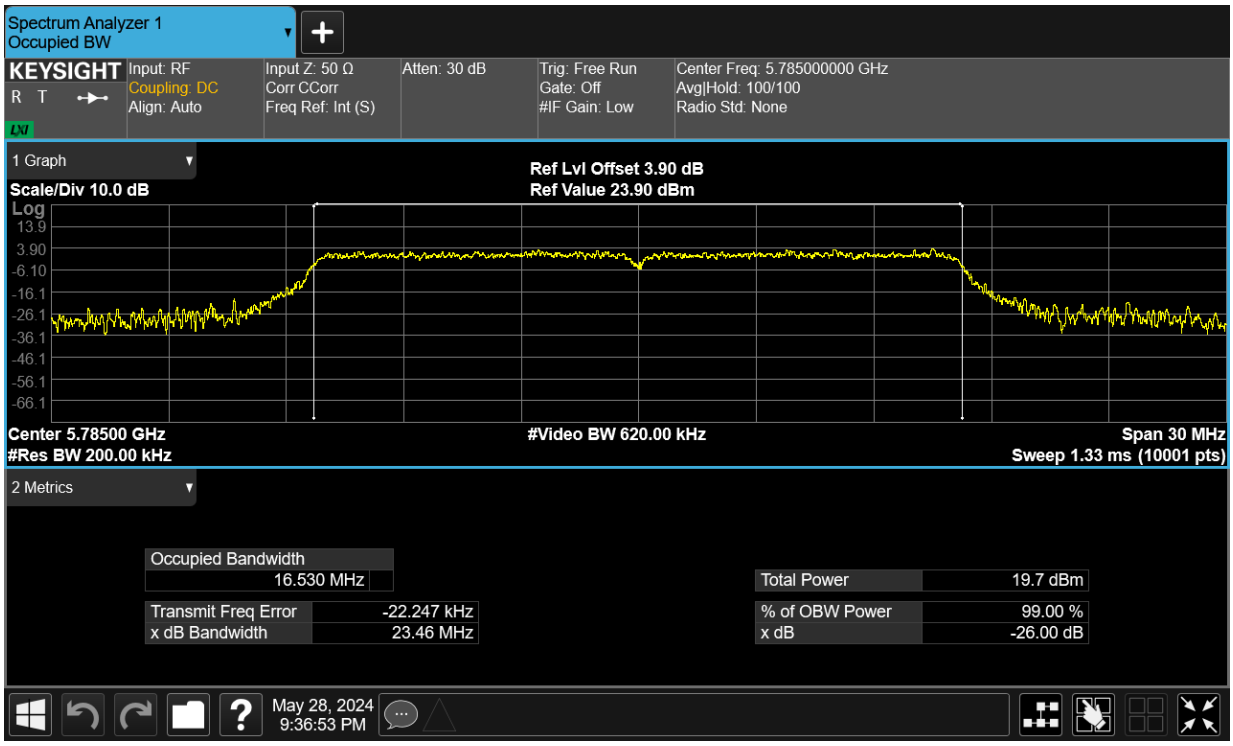
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant12	16.516
NVNT	a	5785	Ant12	16.53
NVNT	a	5825	Ant12	16.51
NVNT	ac20	5745	Ant12	17.602
NVNT	ac20	5785	Ant12	17.579
NVNT	ac20	5825	Ant12	17.551
NVNT	ac40	5755	Ant12	36.083
NVNT	ac40	5795	Ant12	36.138
NVNT	ac80	5775	Ant12	75.472
NVNT	n20	5745	Ant12	17.597
NVNT	n20	5785	Ant12	17.642
NVNT	n20	5825	Ant12	17.579
NVNT	n40	5755	Ant12	36.141
NVNT	n40	5795	Ant12	36.112

Test Graphs

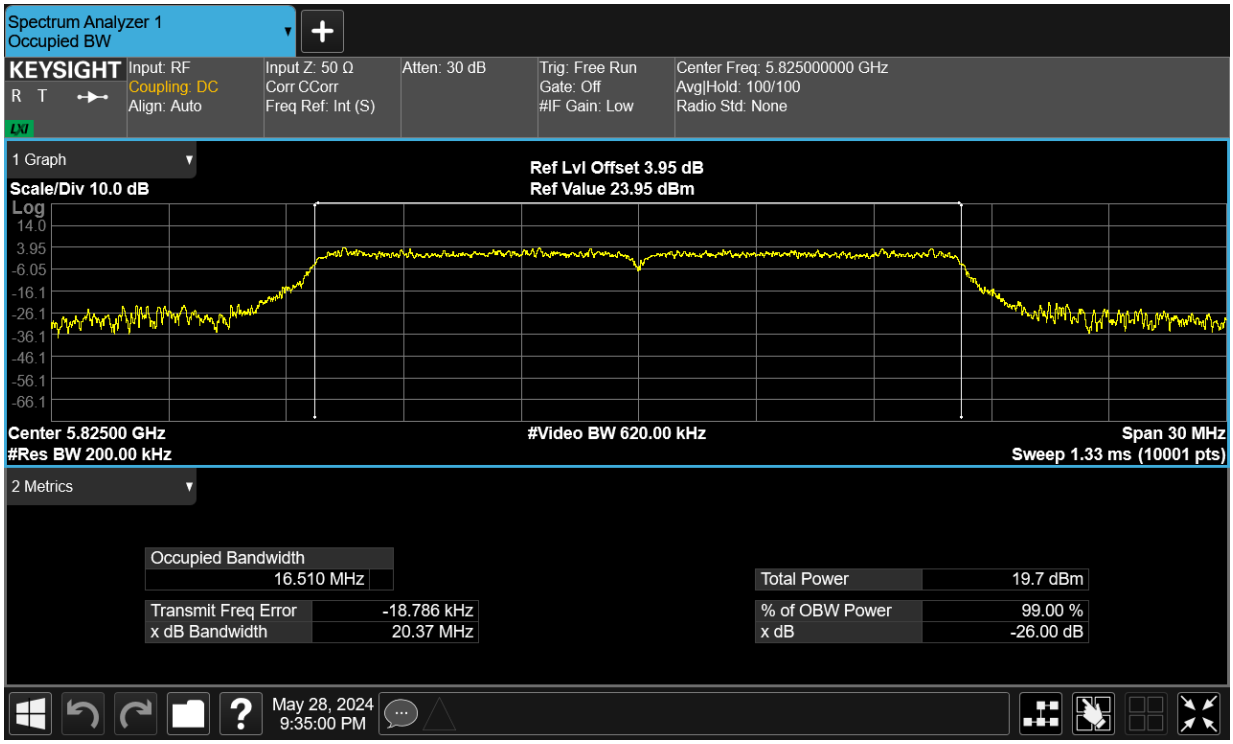
OBW NVNT a 5745MHz Ant12



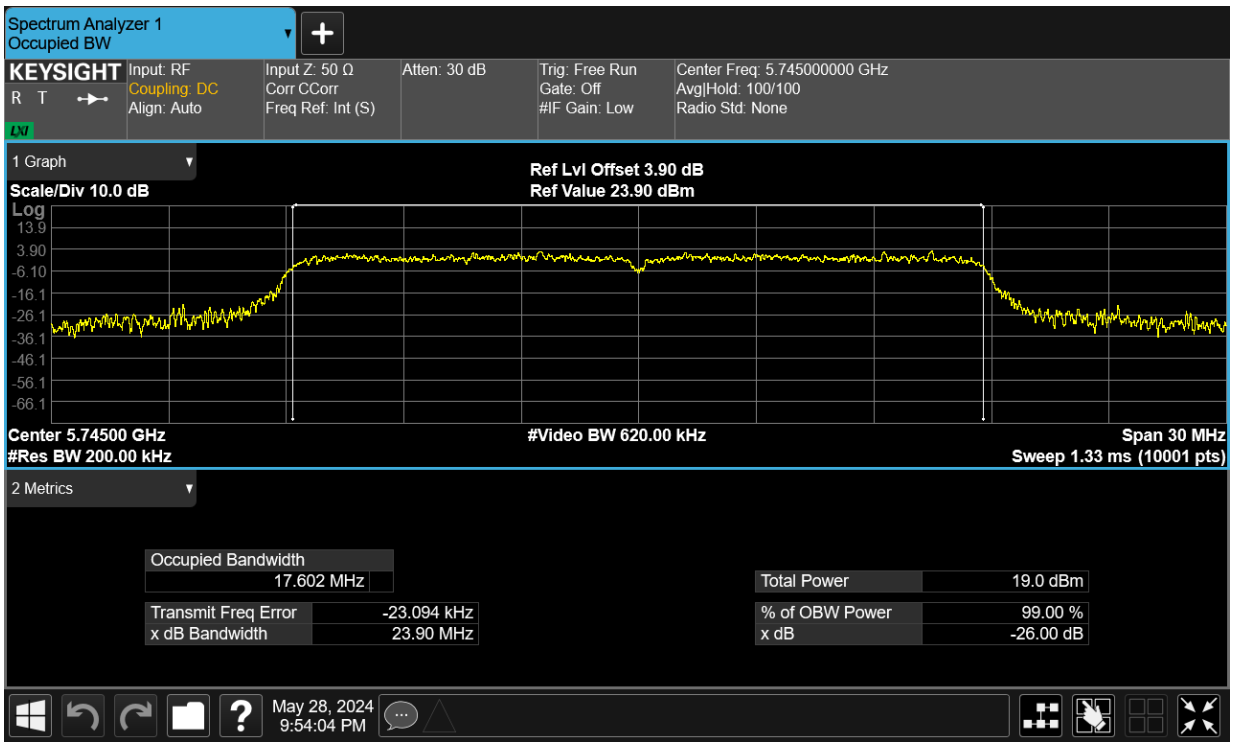
OBW NVNT a 5785MHz Ant12



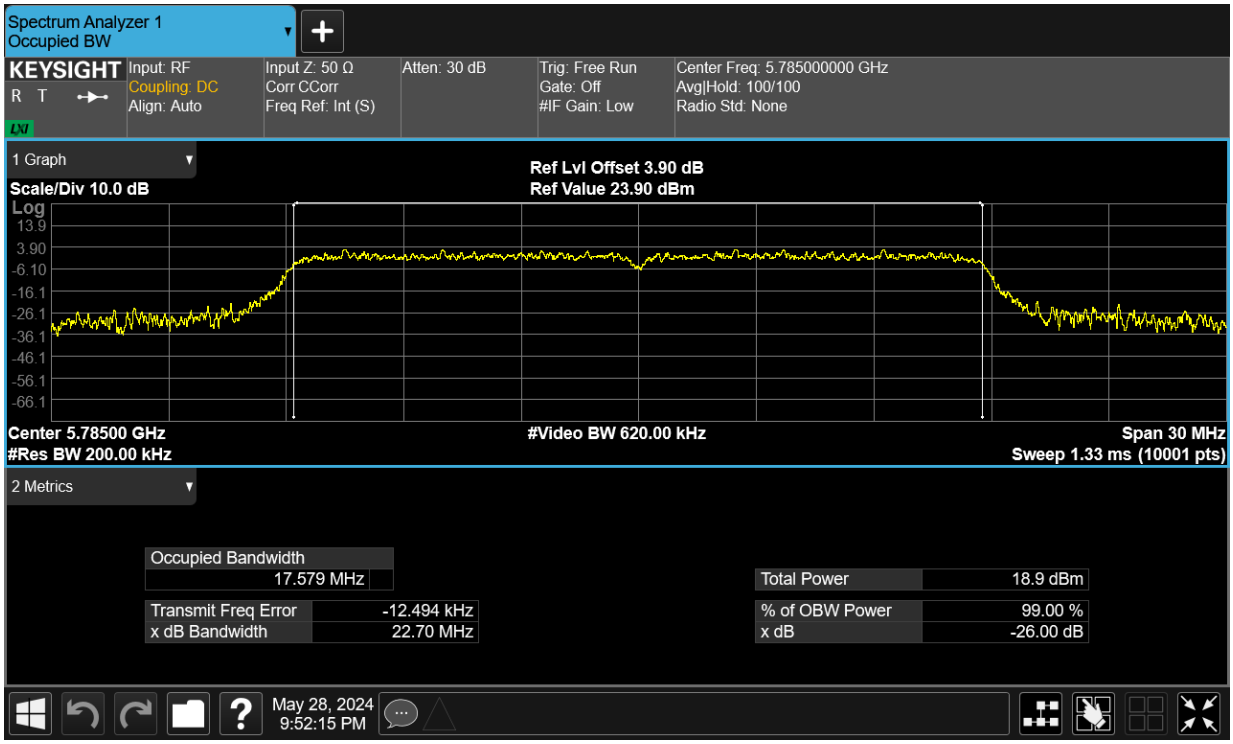
OBW NVNT a 5825MHz Ant12



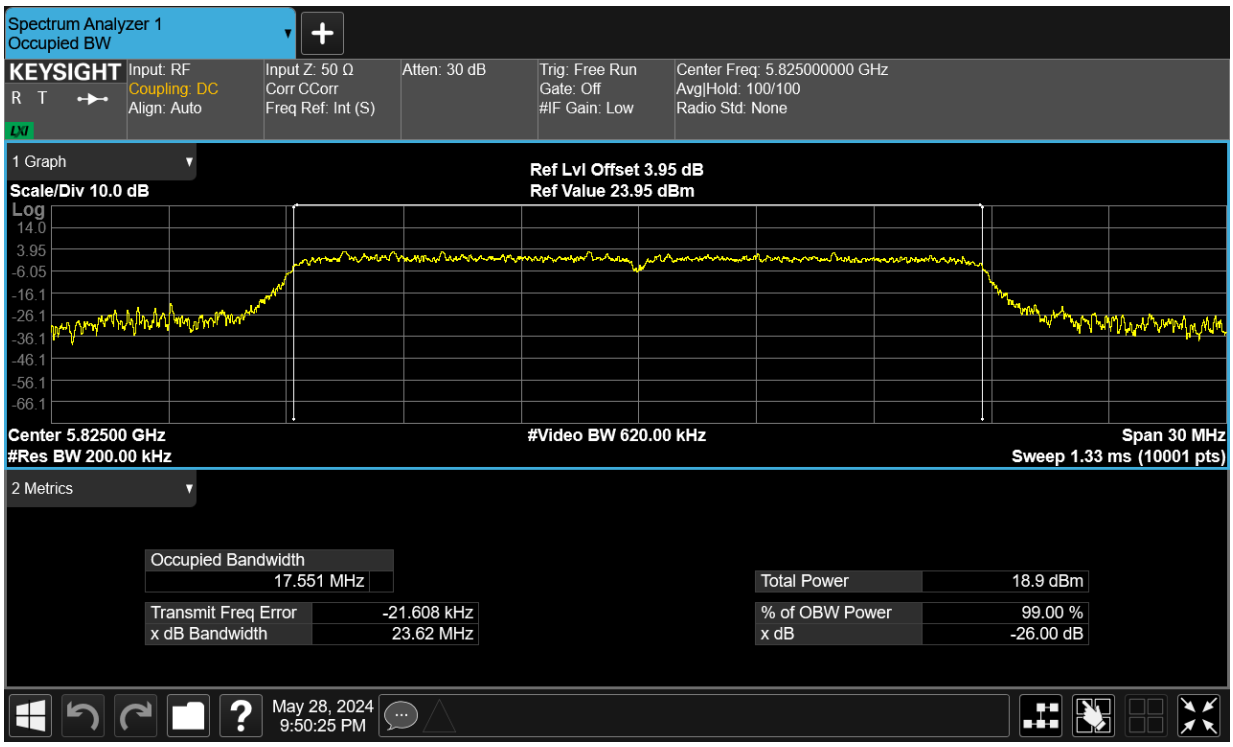
OBW NVNT ac20 5745MHz Ant12



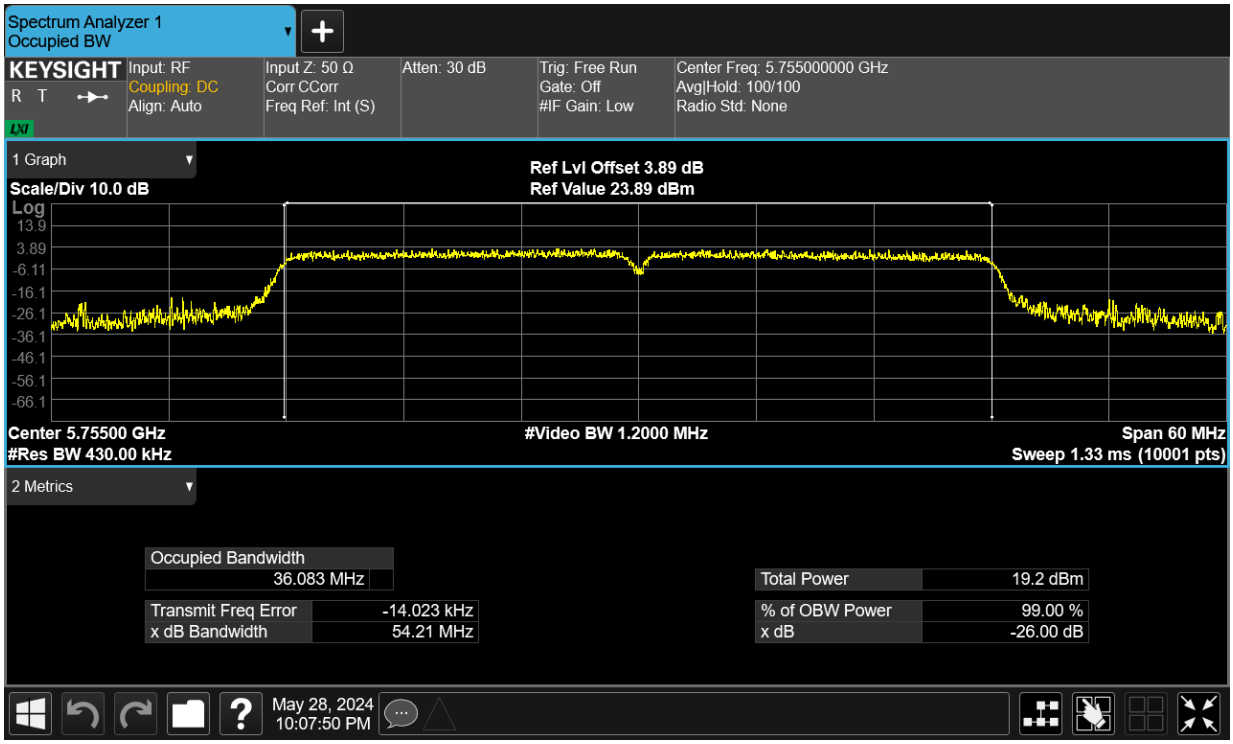
OBW NVNT ac20 5785MHz Ant12



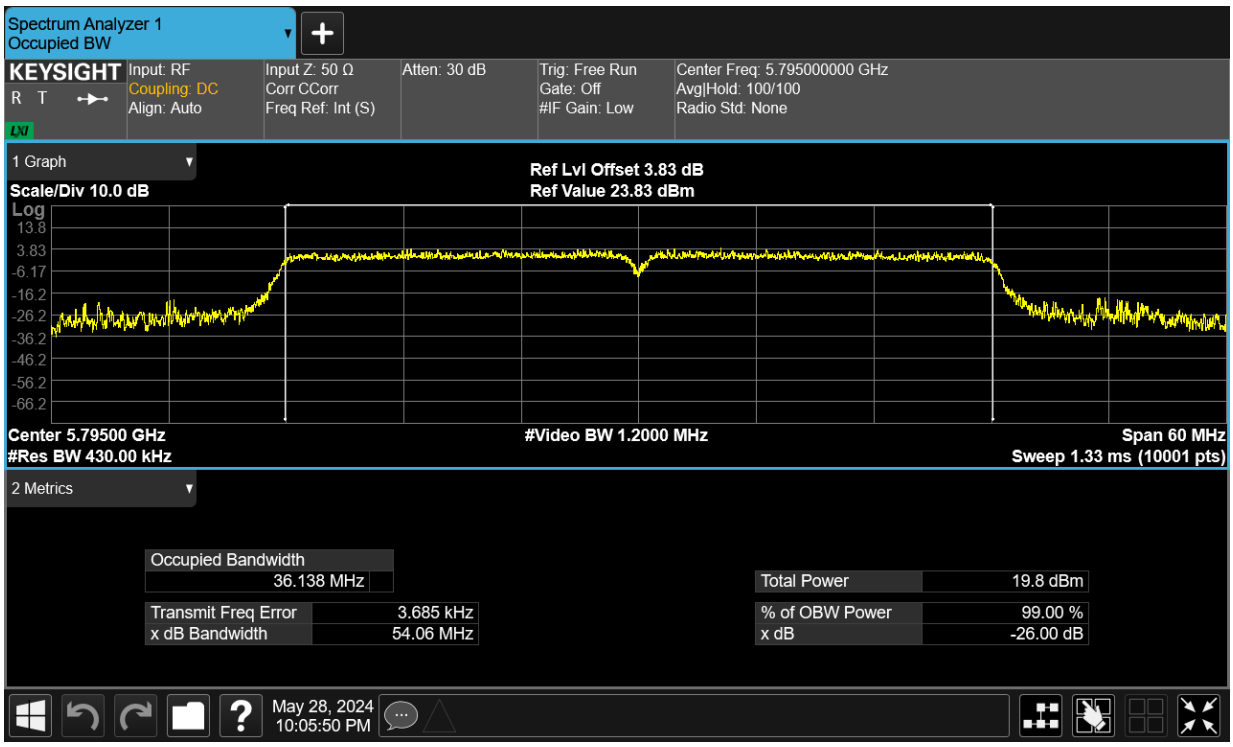
OBW NVNT ac20 5825MHz Ant12



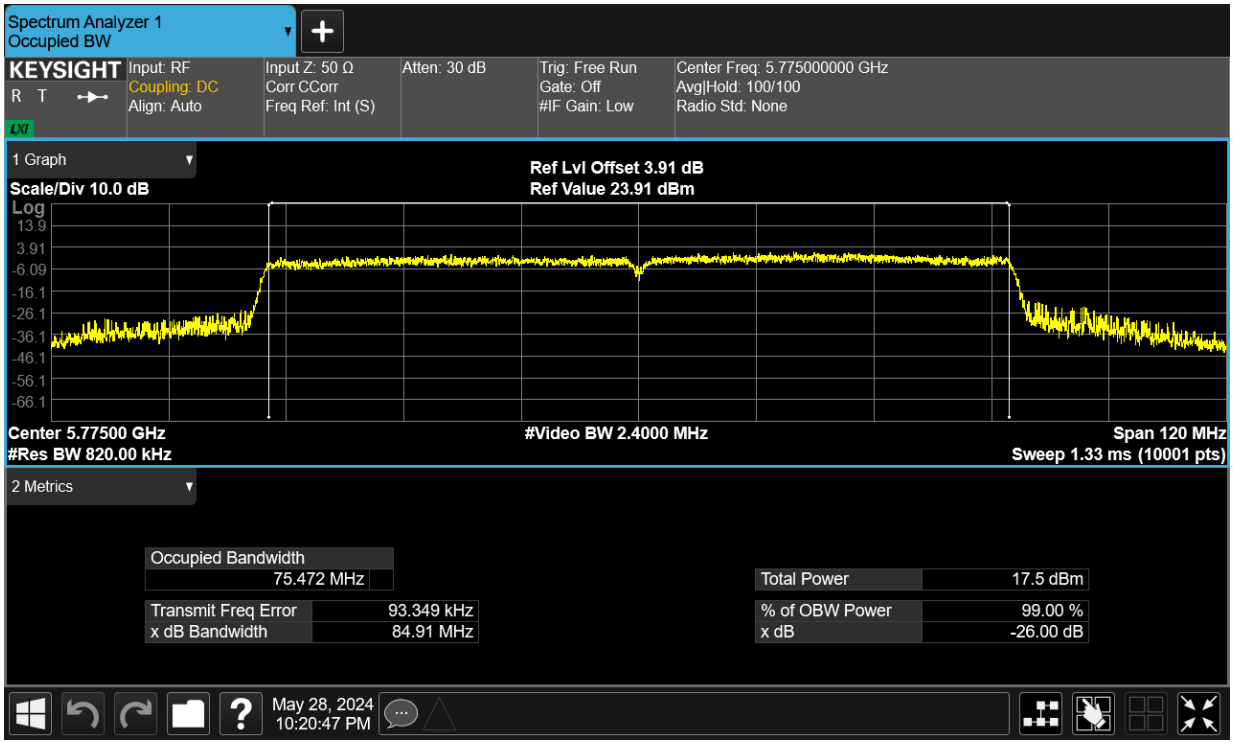
OBW NVNT ac40 5755MHz Ant12



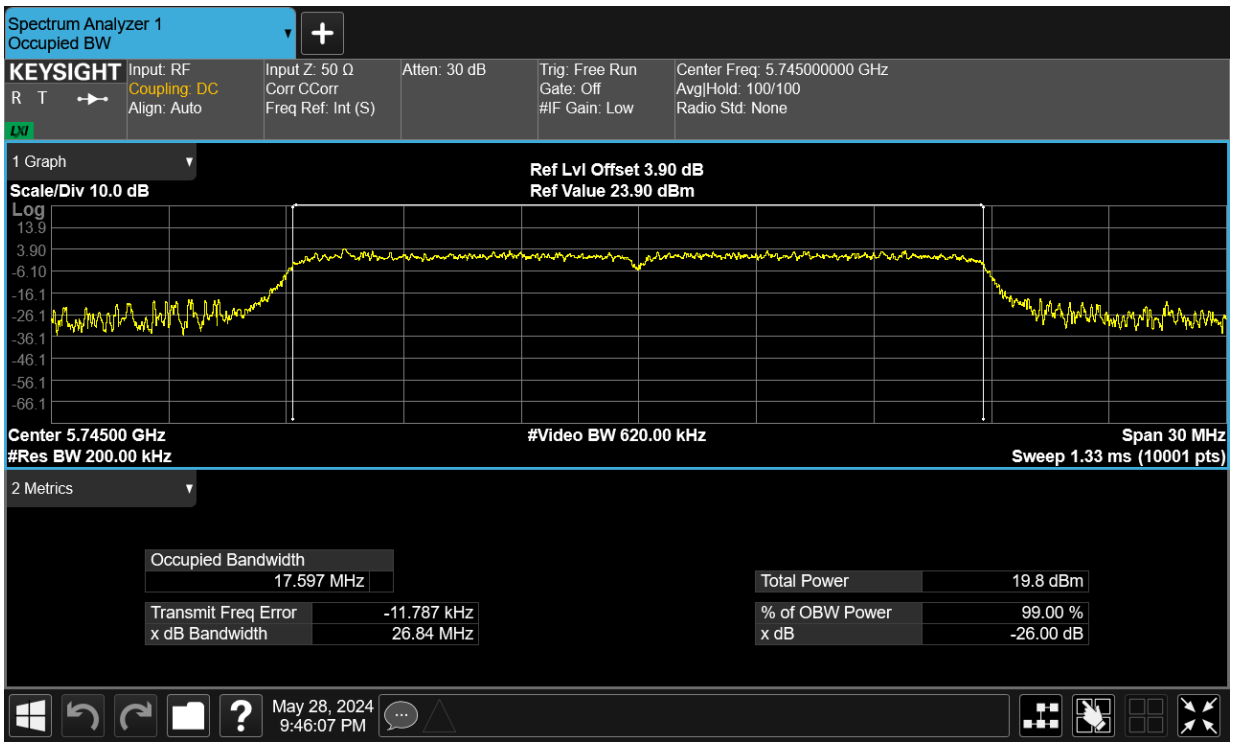
OBW NVNT ac40 5795MHz Ant12



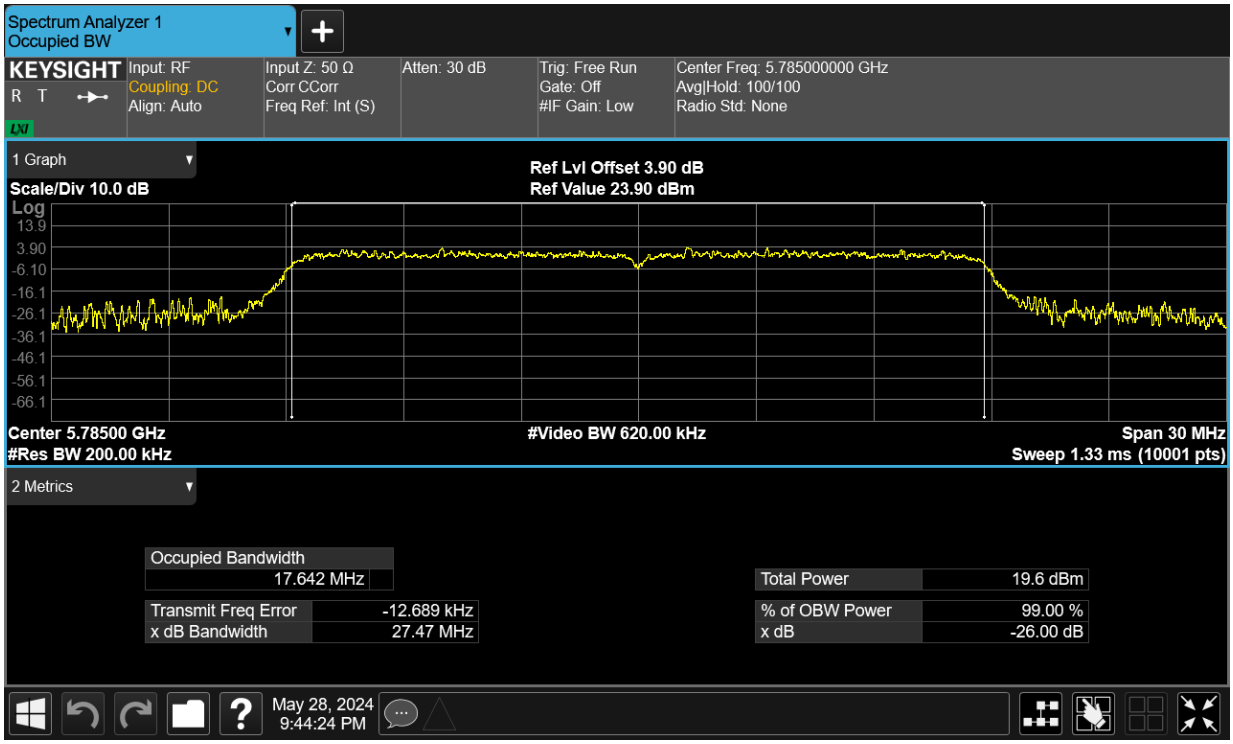
OBW NVNT ac80 5775MHz Ant12



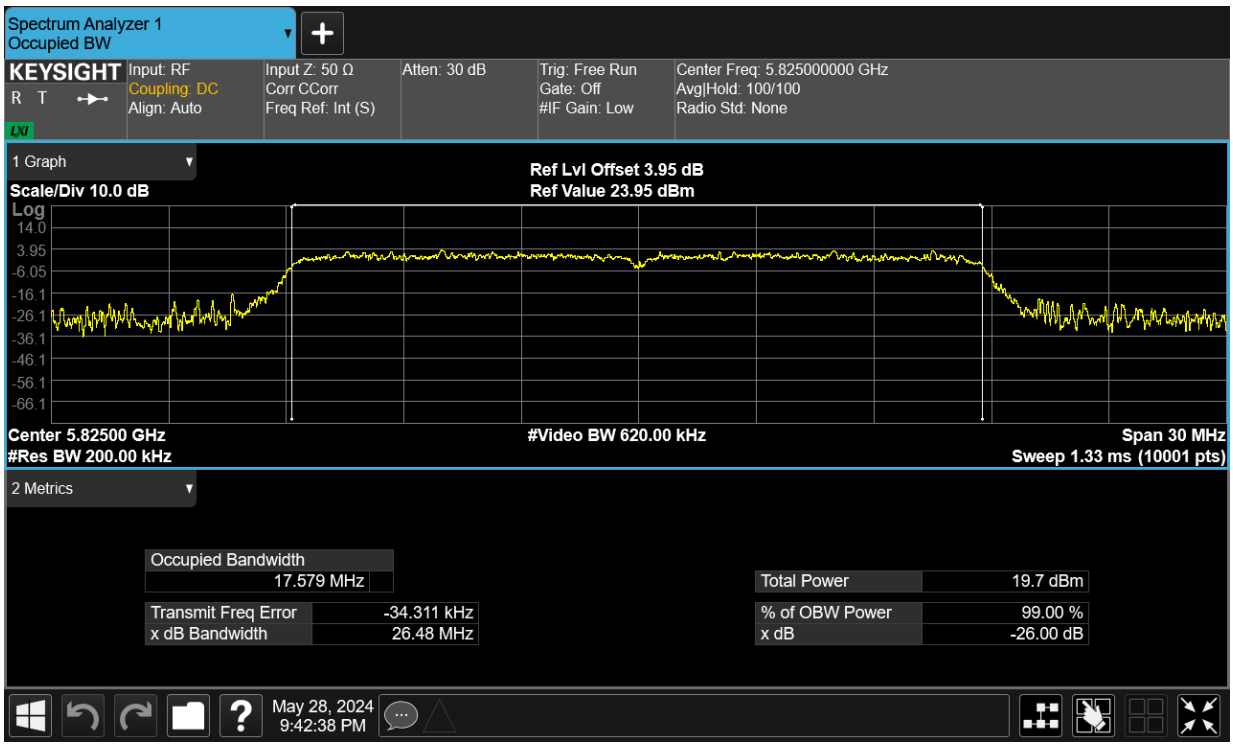
OBW NVNT n20 5745MHz Ant12



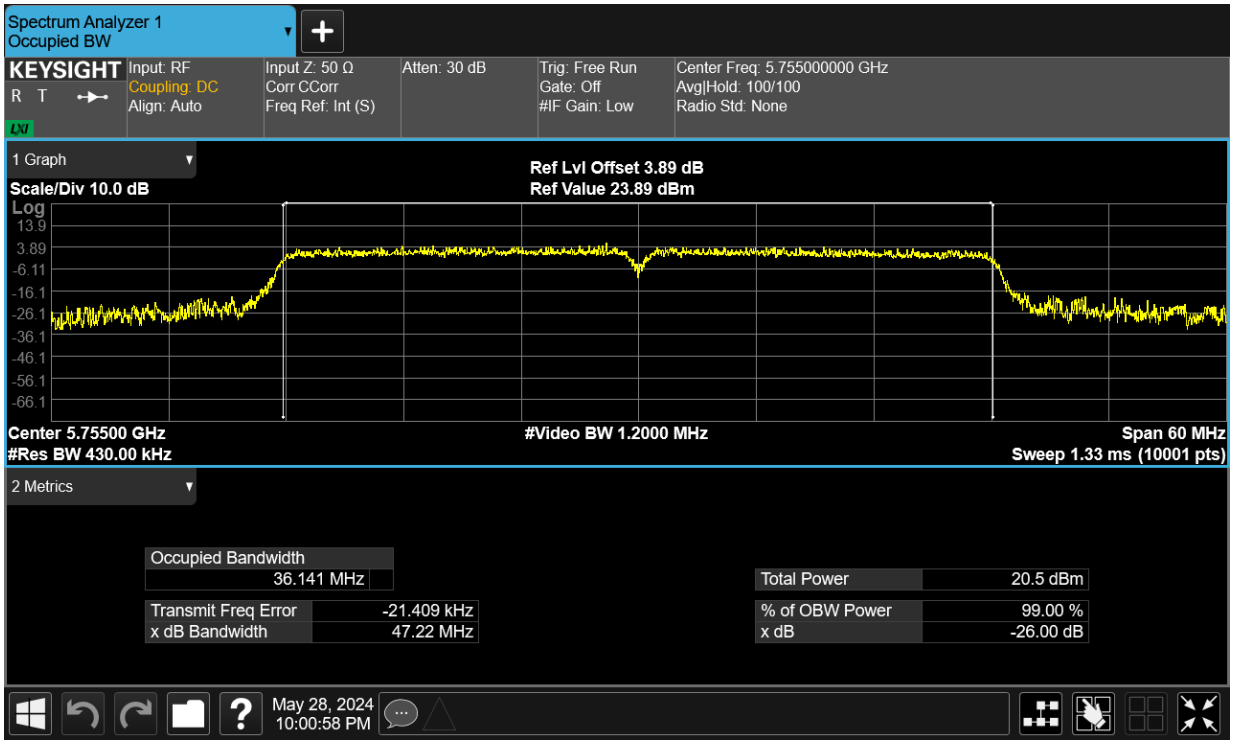
OBW NVNT n20 5785MHz Ant12



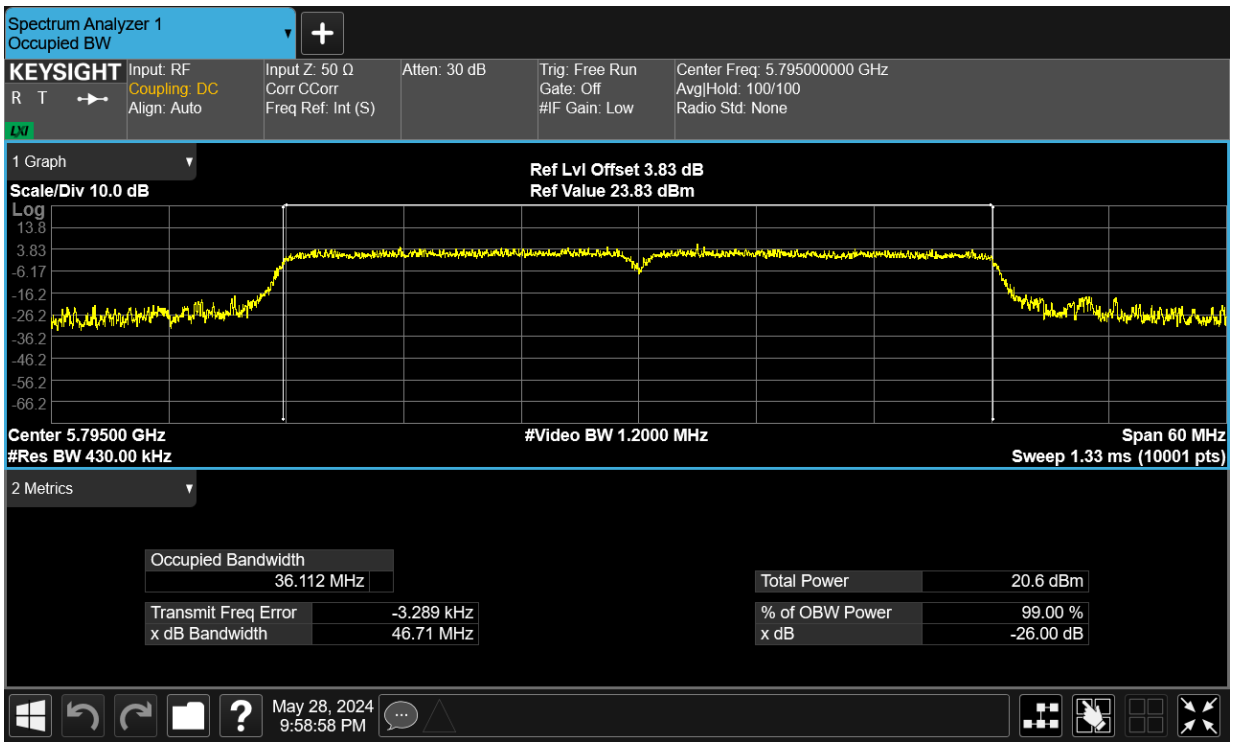
OBW NVNT n20 5825MHz Ant12



OBW NVNT n40 5755MHz Ant12



OBW NVNT n40 5795MHz Ant12

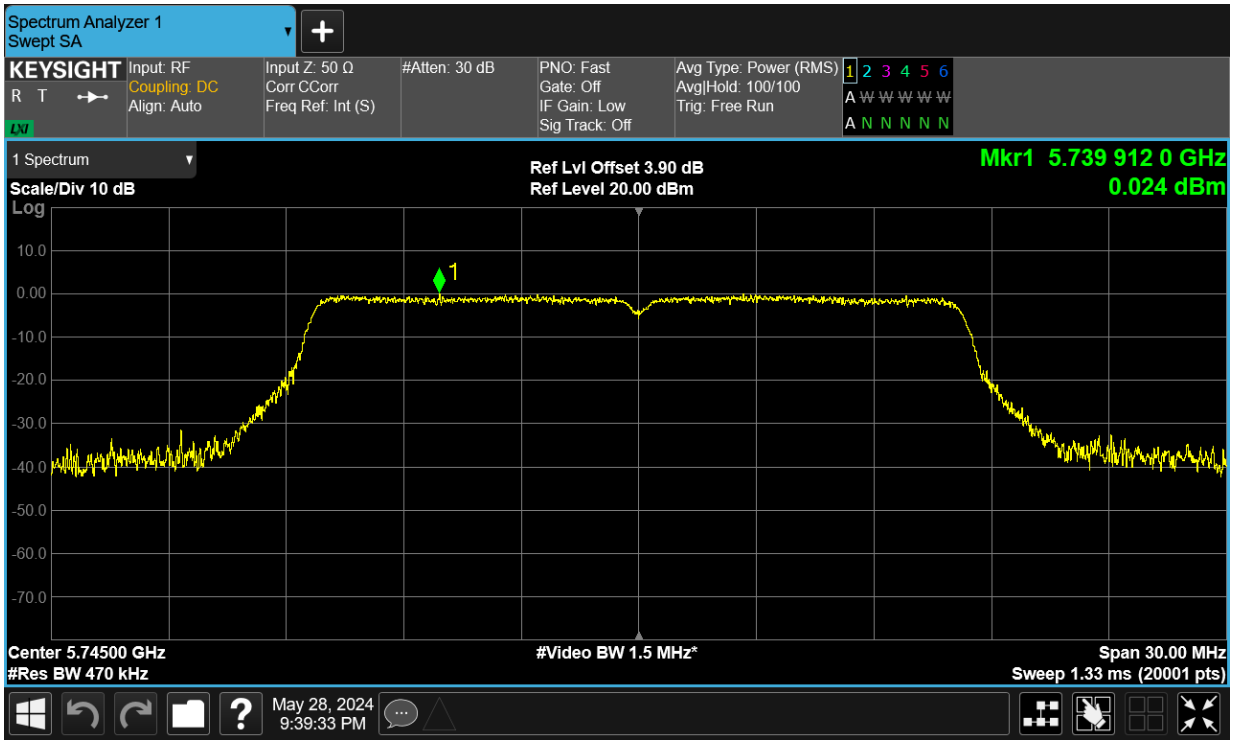


Maximum Power Spectral Density Level

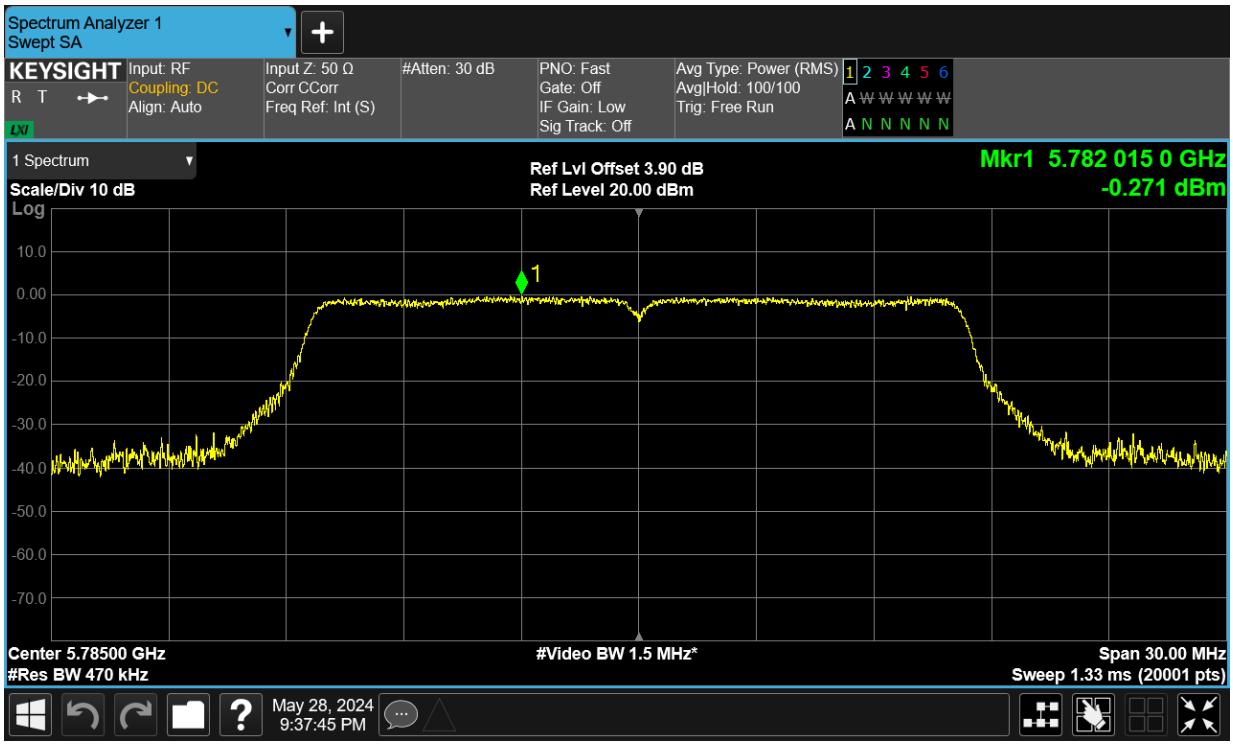
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant12	0.024	30	Pass
NVNT	a	5785	Ant12	-0.271	30	Pass
NVNT	a	5825	Ant12	-0.035	30	Pass
NVNT	ac20	5745	Ant12	-1.186	30	Pass
NVNT	ac20	5785	Ant12	-1.174	30	Pass
NVNT	ac20	5825	Ant12	-1.156	30	Pass
NVNT	ac40	5755	Ant12	-3.47	30	Pass
NVNT	ac40	5795	Ant12	-3.525	30	Pass
NVNT	ac80	5775	Ant12	-9.576	30	Pass
NVNT	n20	5745	Ant12	-0.387	30	Pass
NVNT	n20	5785	Ant12	-0.554	30	Pass
NVNT	n20	5825	Ant12	-0.255	30	Pass
NVNT	n40	5755	Ant12	-3.038	30	Pass
NVNT	n40	5795	Ant12	-2.304	30	Pass

Test Graphs

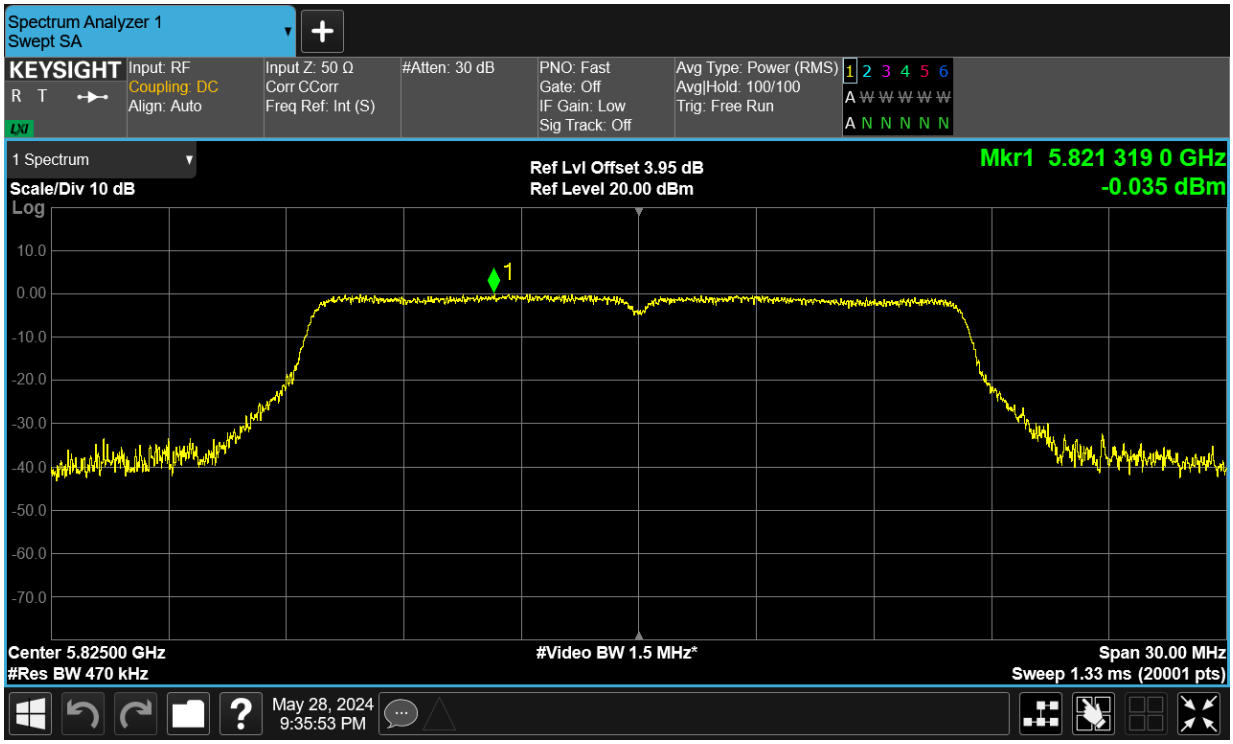
PSD NVNT a 5745MHz Ant12



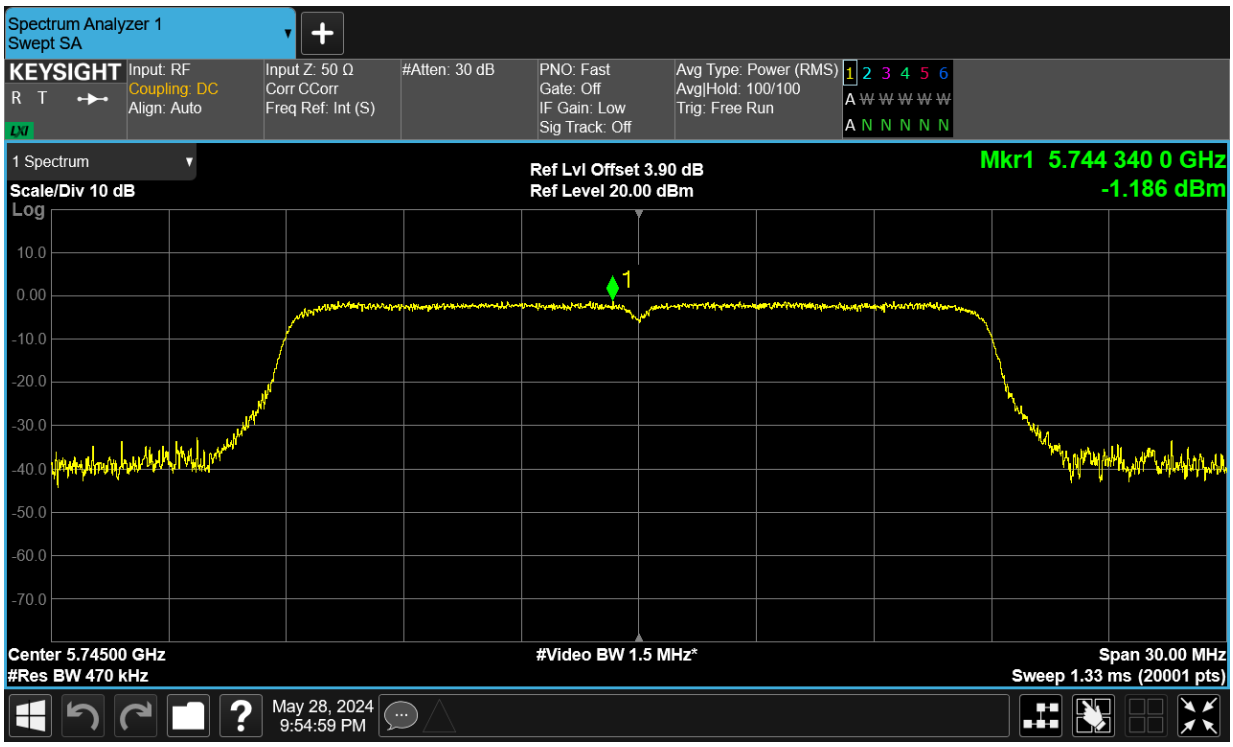
PSD NVNT a 5785MHz Ant12



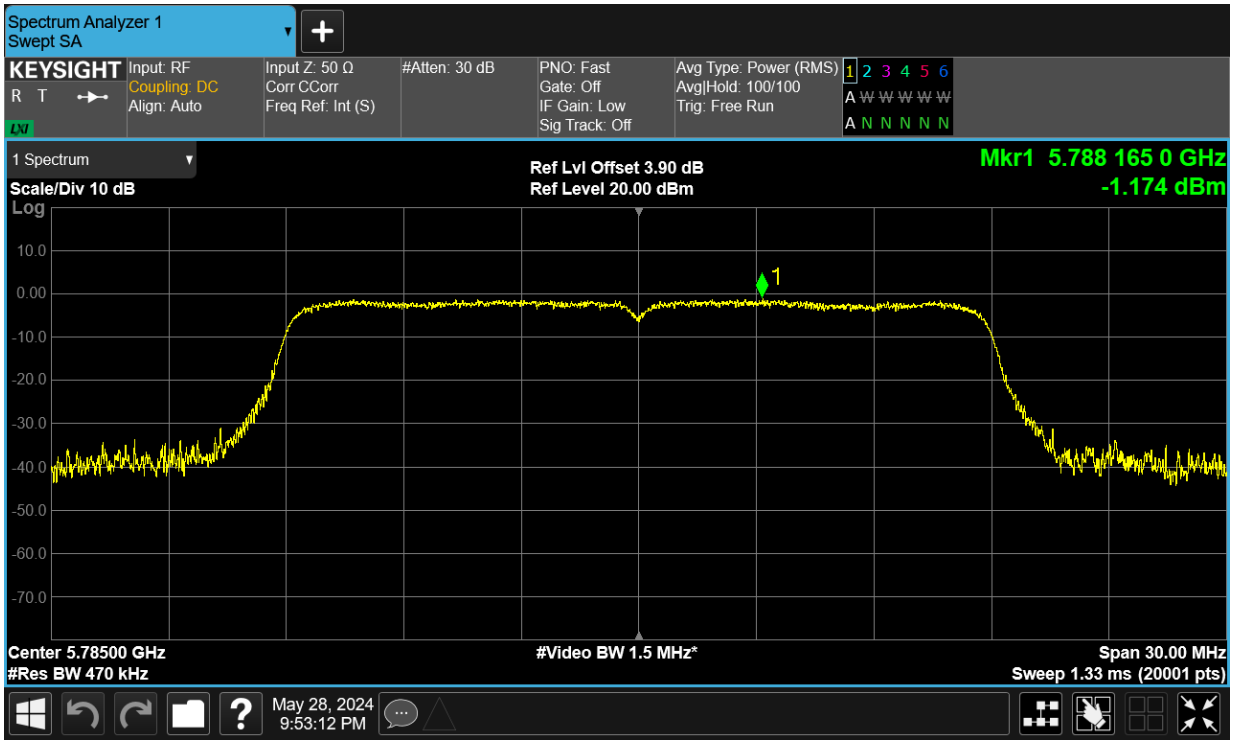
PSD NVNT a 5825MHz Ant12



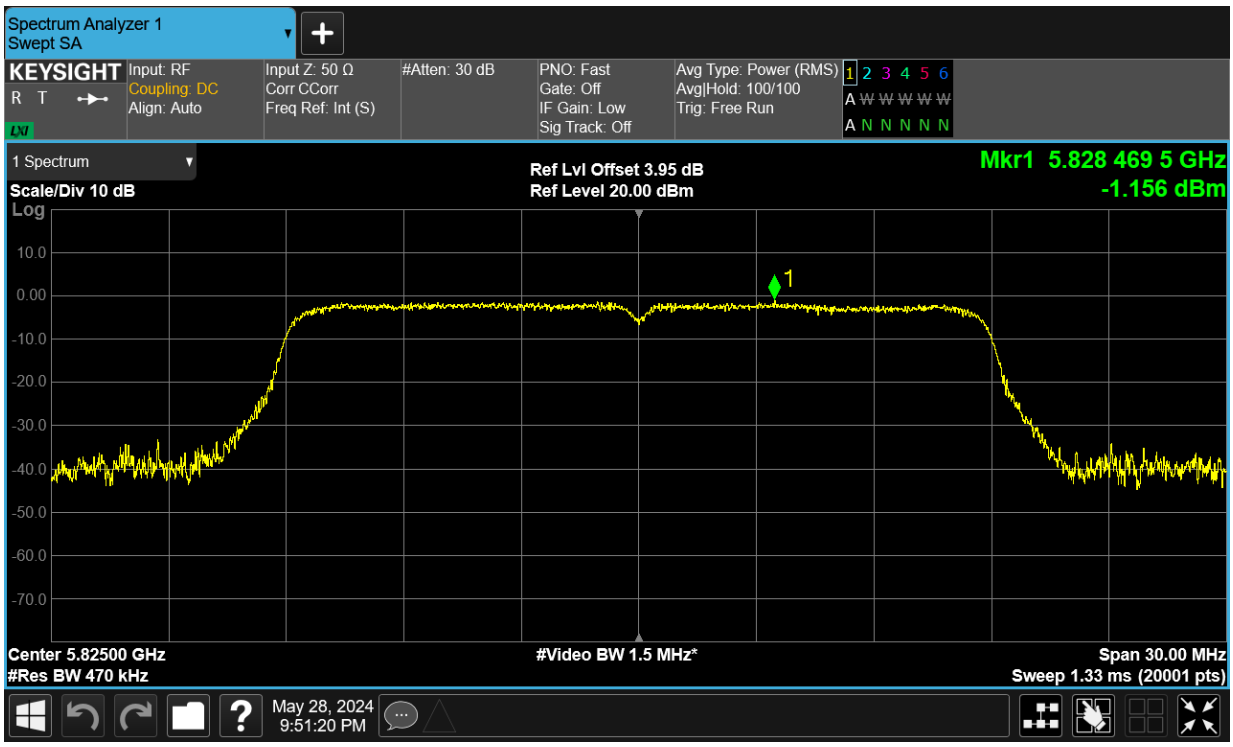
PSD NVNT ac20 5745MHz Ant12



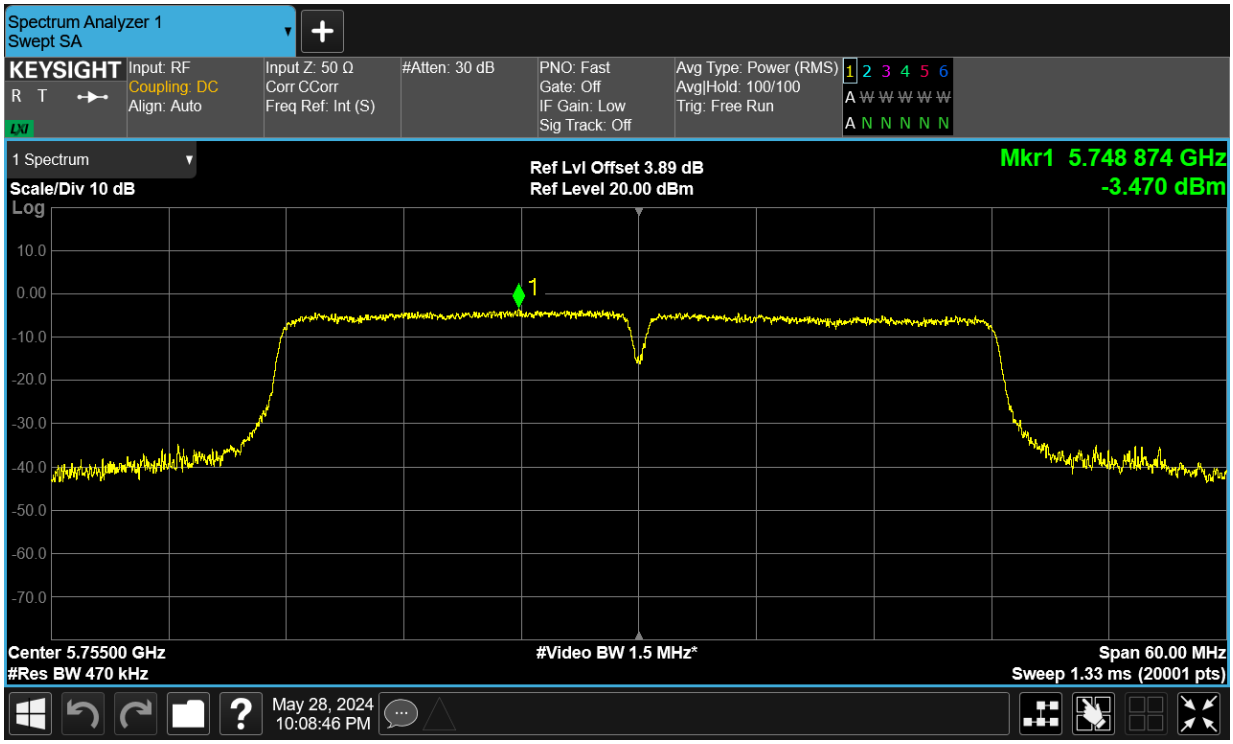
PSD NVNT ac20 5785MHz Ant12



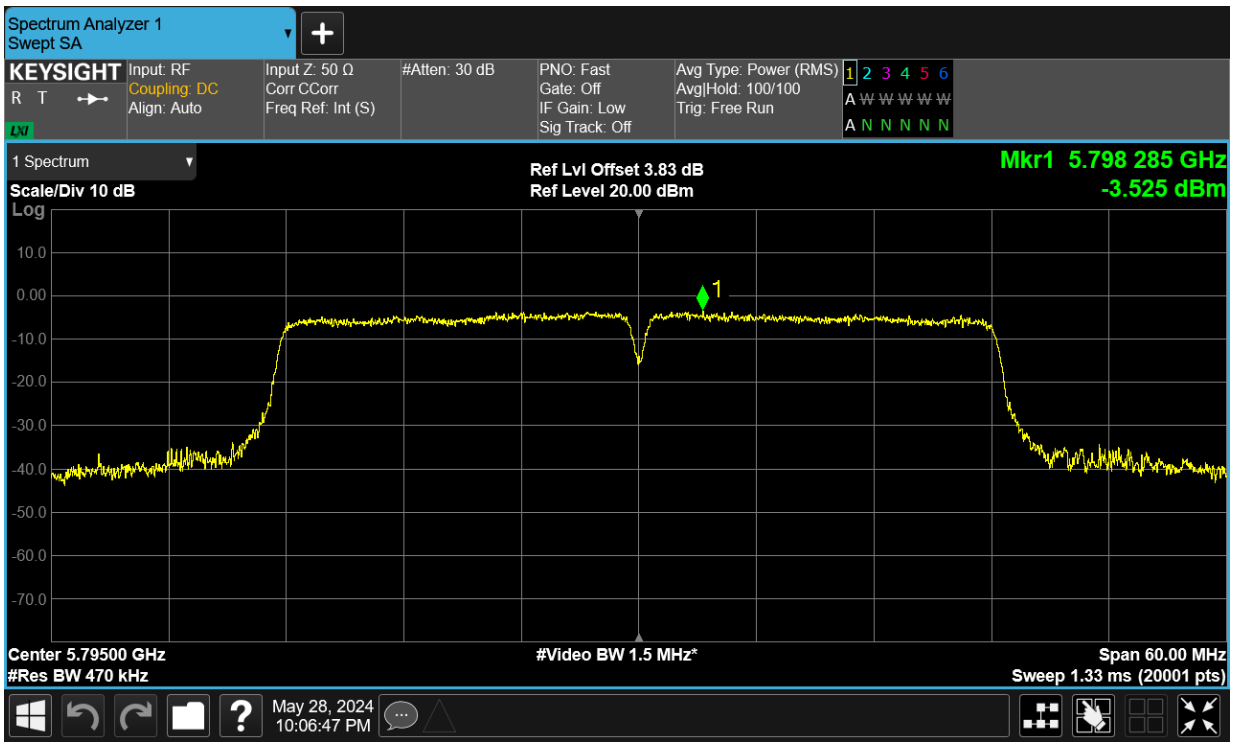
PSD NVNT ac20 5825MHz Ant12



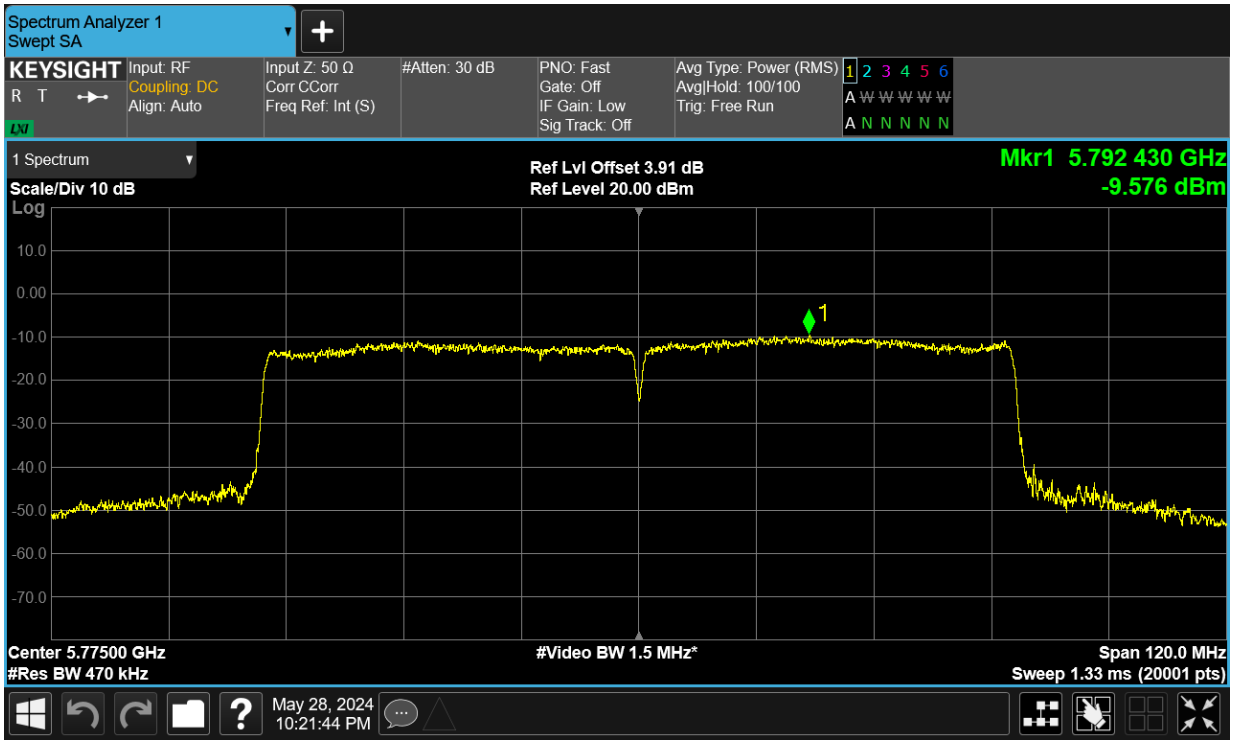
PSD NVNT ac40 5755MHz Ant12



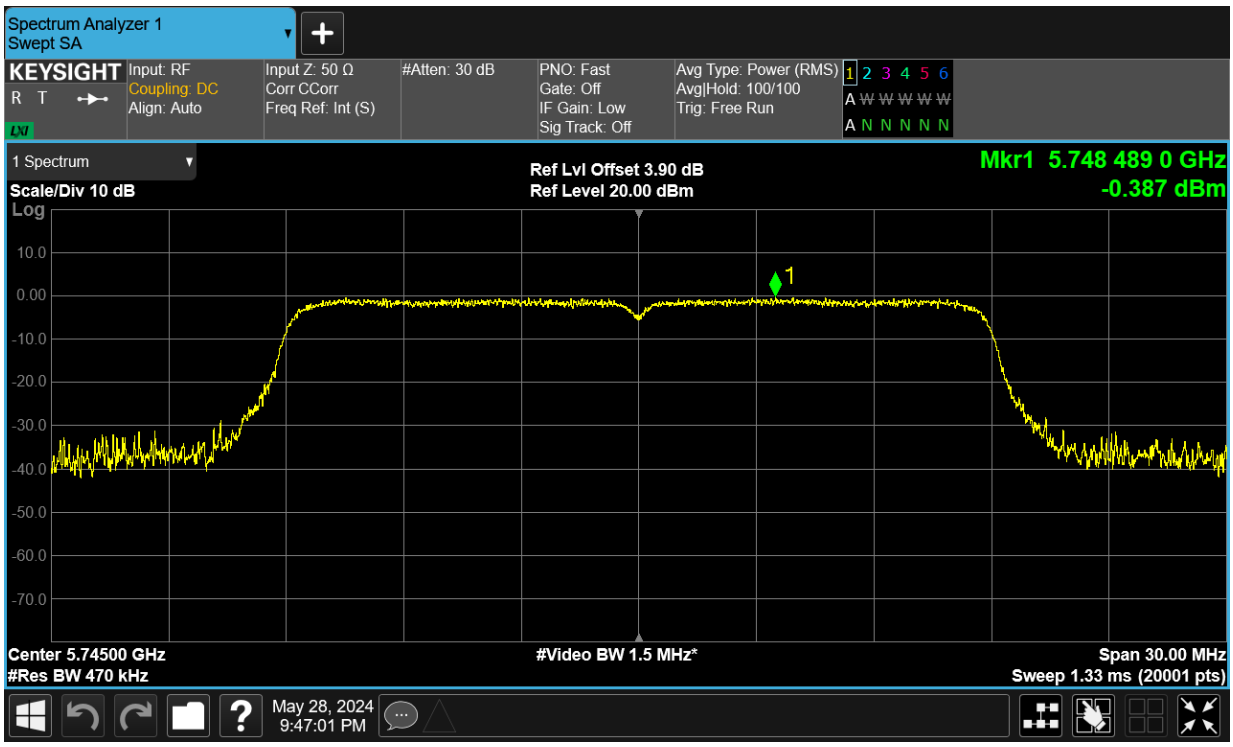
PSD NVNT ac40 5795MHz Ant12



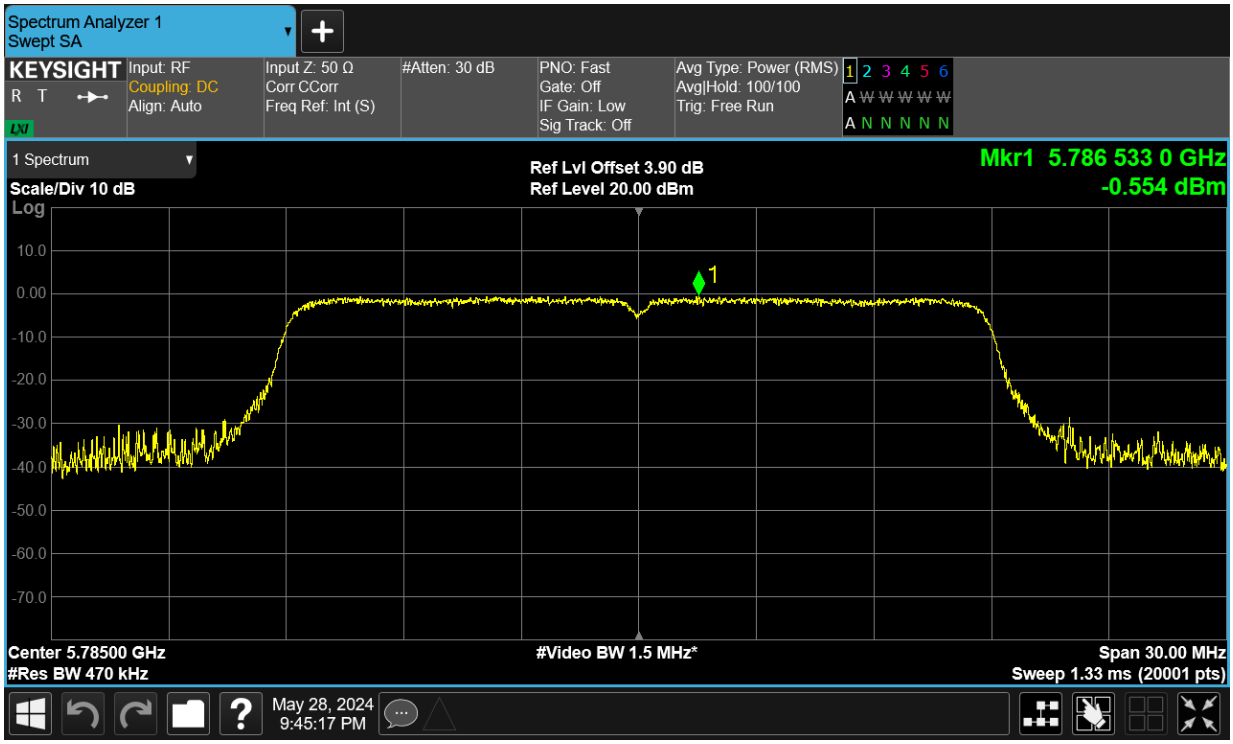
PSD NVNT ac80 5775MHz Ant12



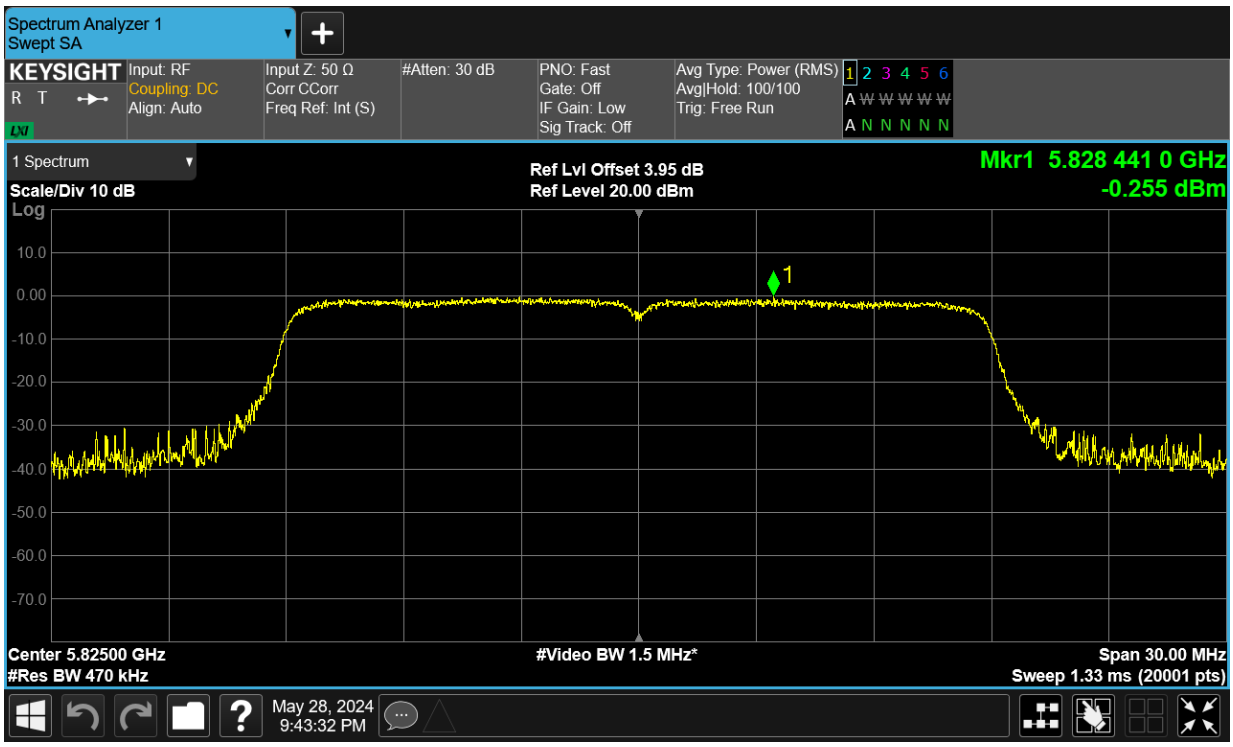
PSD NVNT n20 5745MHz Ant12



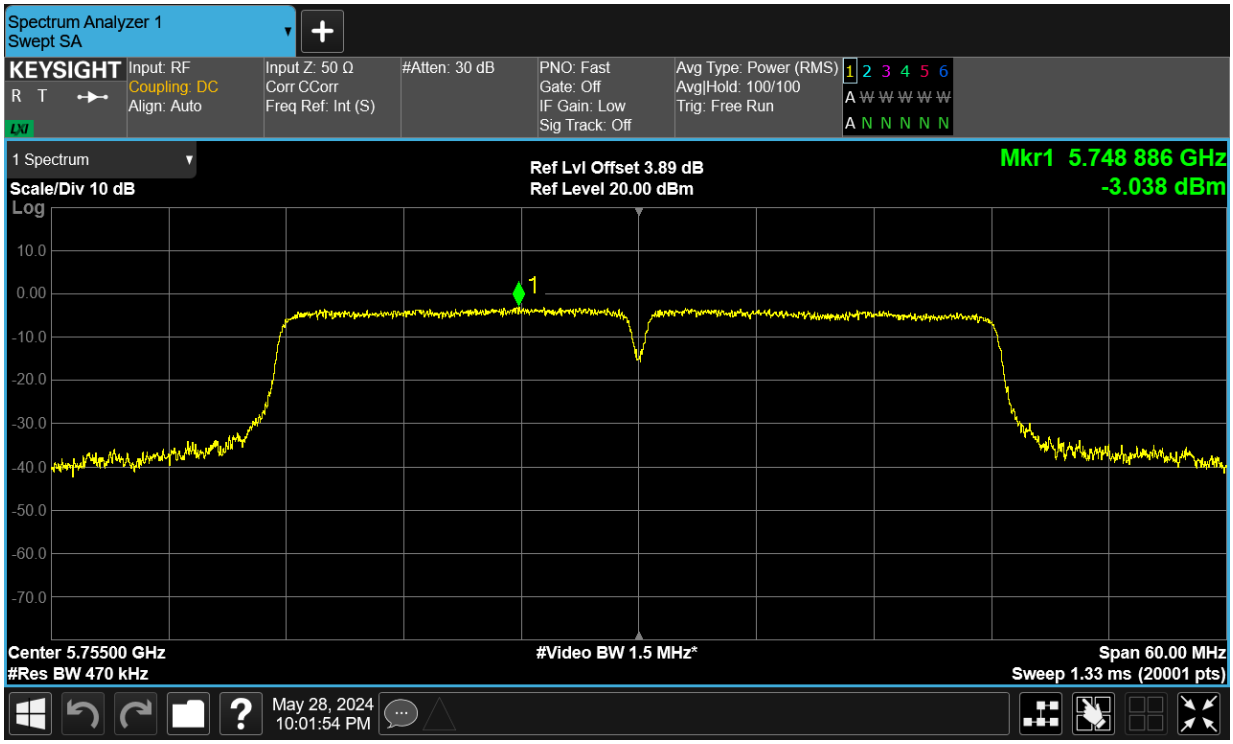
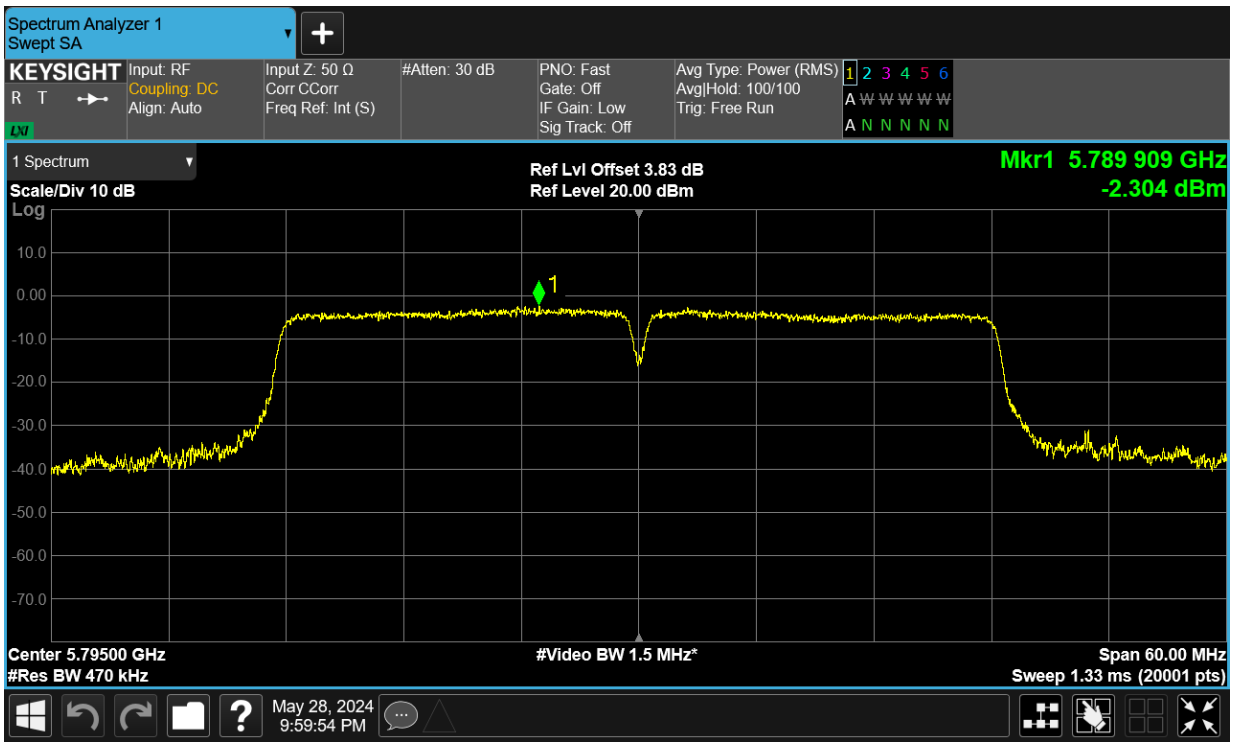
PSD NVNT n20 5785MHz Ant12



PSD NVNT n20 5825MHz Ant12



PSD NVNT n40 5755MHz Ant12



PSD NVNT n40 5795MHz Ant12