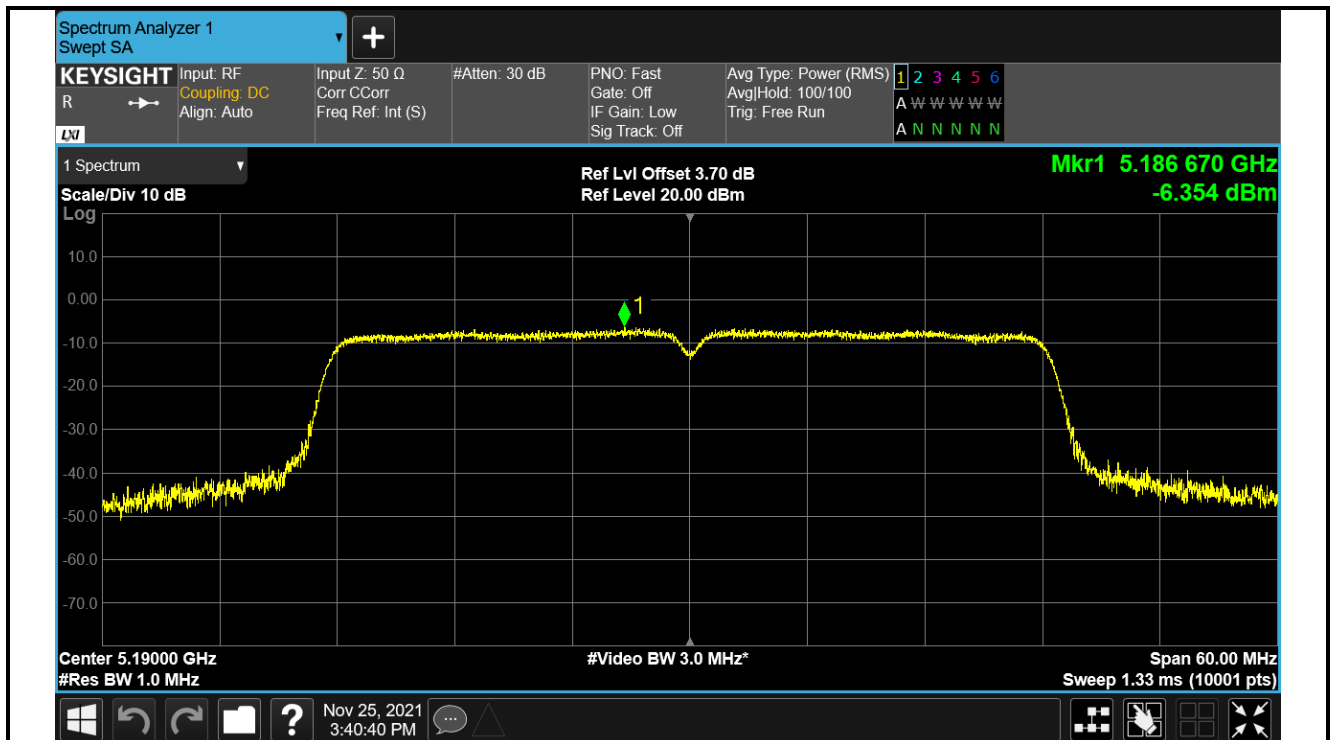
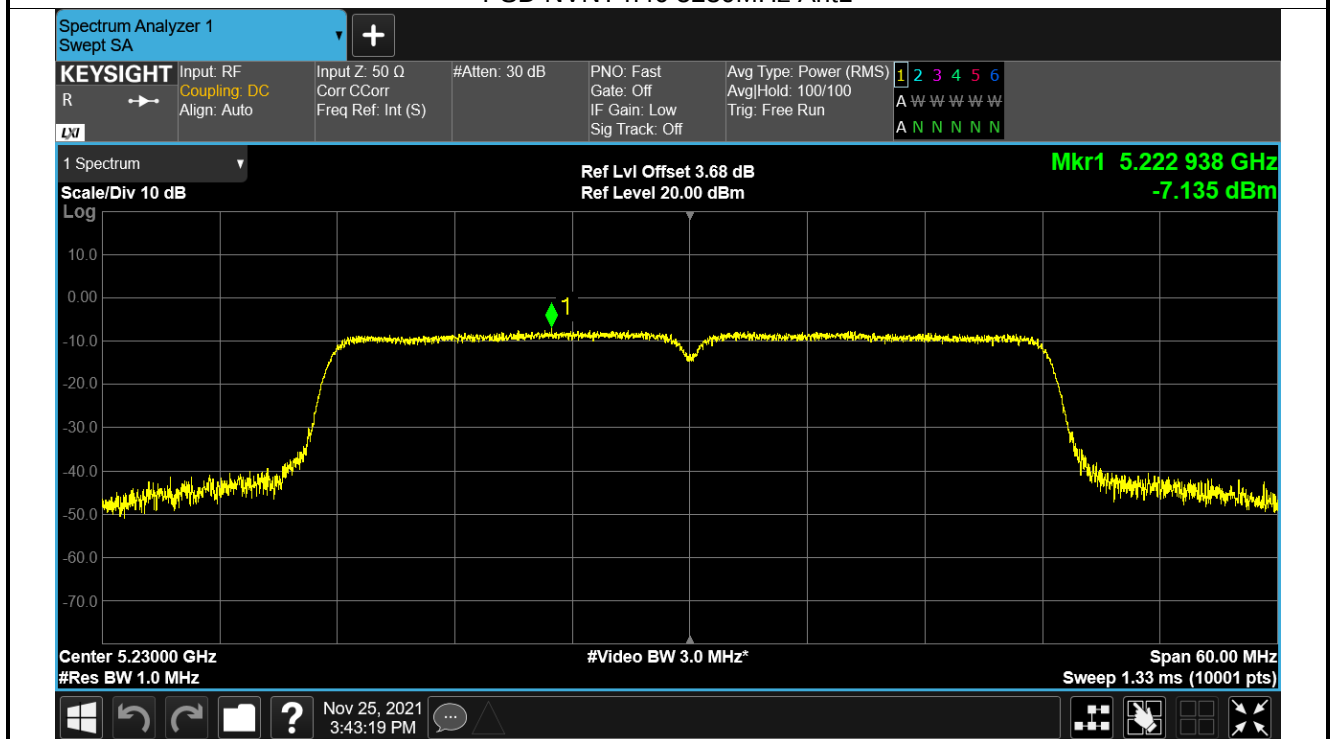




PSD NVNT n40 5230MHz Ant1



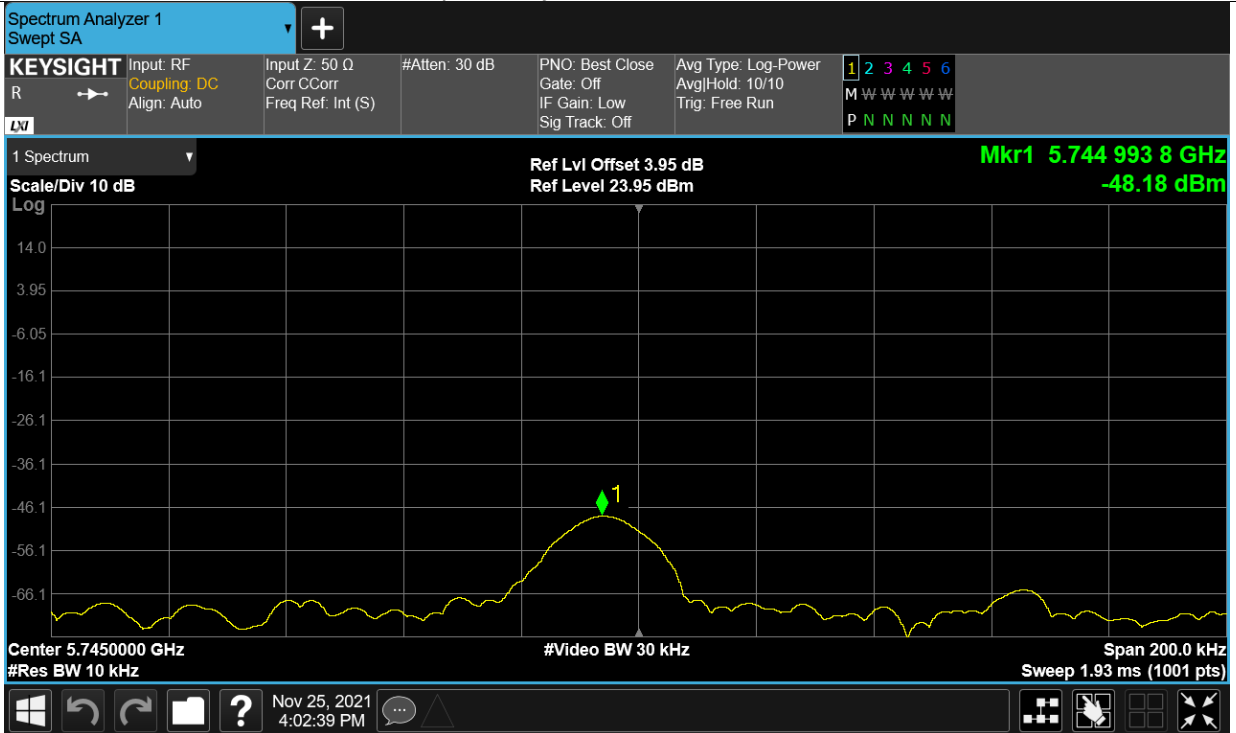
Appendix B

B.1 Frequency Stability

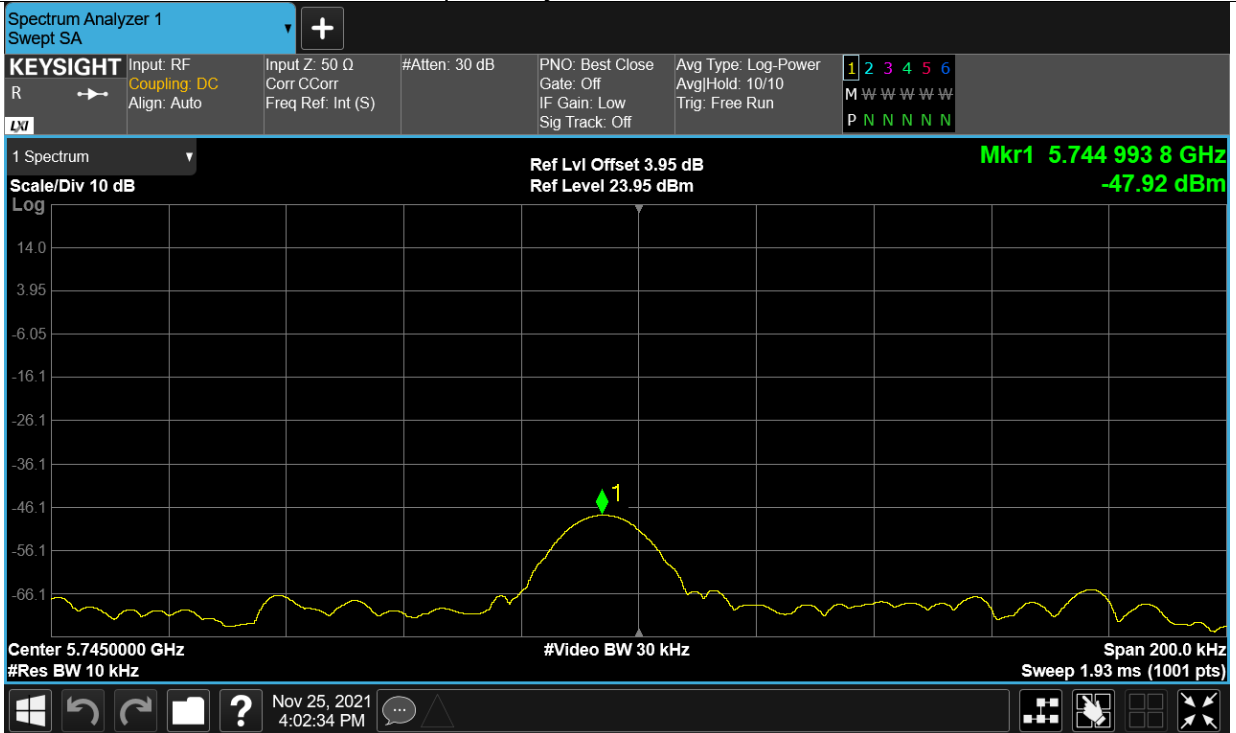
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVHT	a	5745	Ant1	5744.9938	-1.08	25	Pass
HVLT	a	5745	Ant1	5744.9938	-1.08	25	Pass
LVHT	a	5745	Ant1	5744.9944	-0.97	25	Pass
LVLT	a	5745	Ant1	5744.9942	-1.01	25	Pass
NVNT	a	5745	Ant1	5744.9944	-0.97	25	Pass
HVHT	ac80	5775	Ant1	5774.9938	-1.07	25	Pass
HVLT	ac80	5775	Ant1	5774.9936	-1.11	25	Pass
LVHT	ac80	5775	Ant1	5774.994	-1.04	25	Pass
LVLT	ac80	5775	Ant1	5774.9936	-1.11	25	Pass
NVNT	ac80	5775	Ant1	5774.994	-1.04	25	Pass
HVHT	n40	5755	Ant1	5754.9938	-1.08	25	Pass
HVLT	n40	5755	Ant1	5754.9946	-0.94	25	Pass
LVHT	n40	5755	Ant1	5754.9938	-1.08	25	Pass
LVLT	n40	5755	Ant1	5754.9948	-0.9	25	Pass
NVNT	n40	5755	Ant1	5754.9942	-1.01	25	Pass

Test Graphs

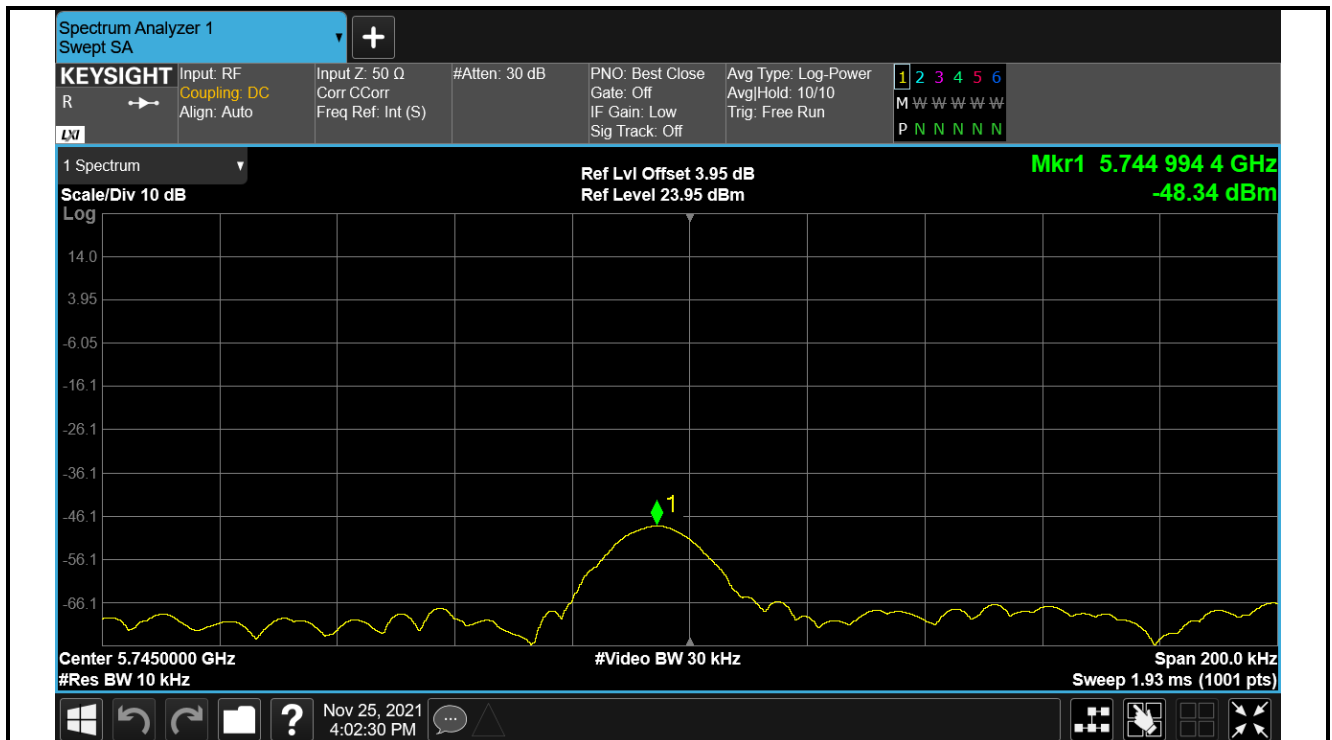
Freq. Stability HVHT a 5745MHz Ant1



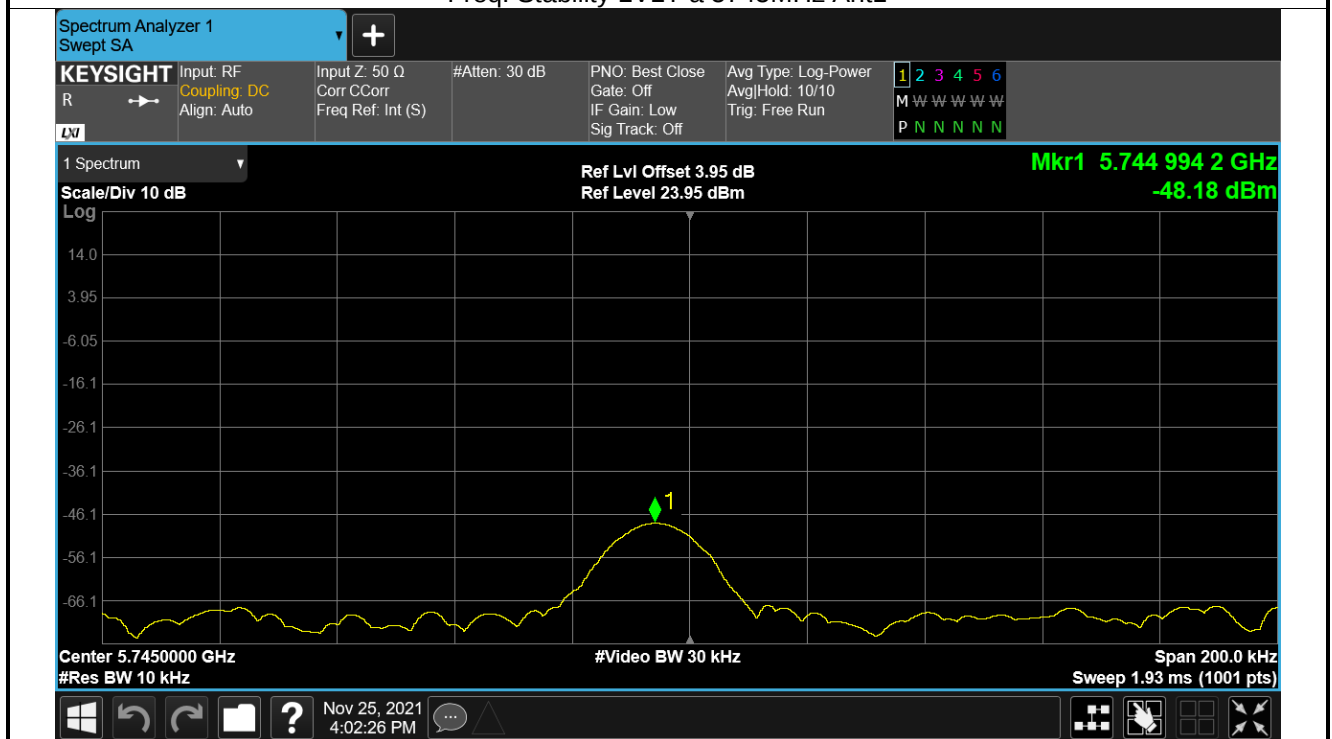
Freq. Stability HVLT a 5745MHz Ant1



Freq. Stability LVHT a 5745MHz Ant1

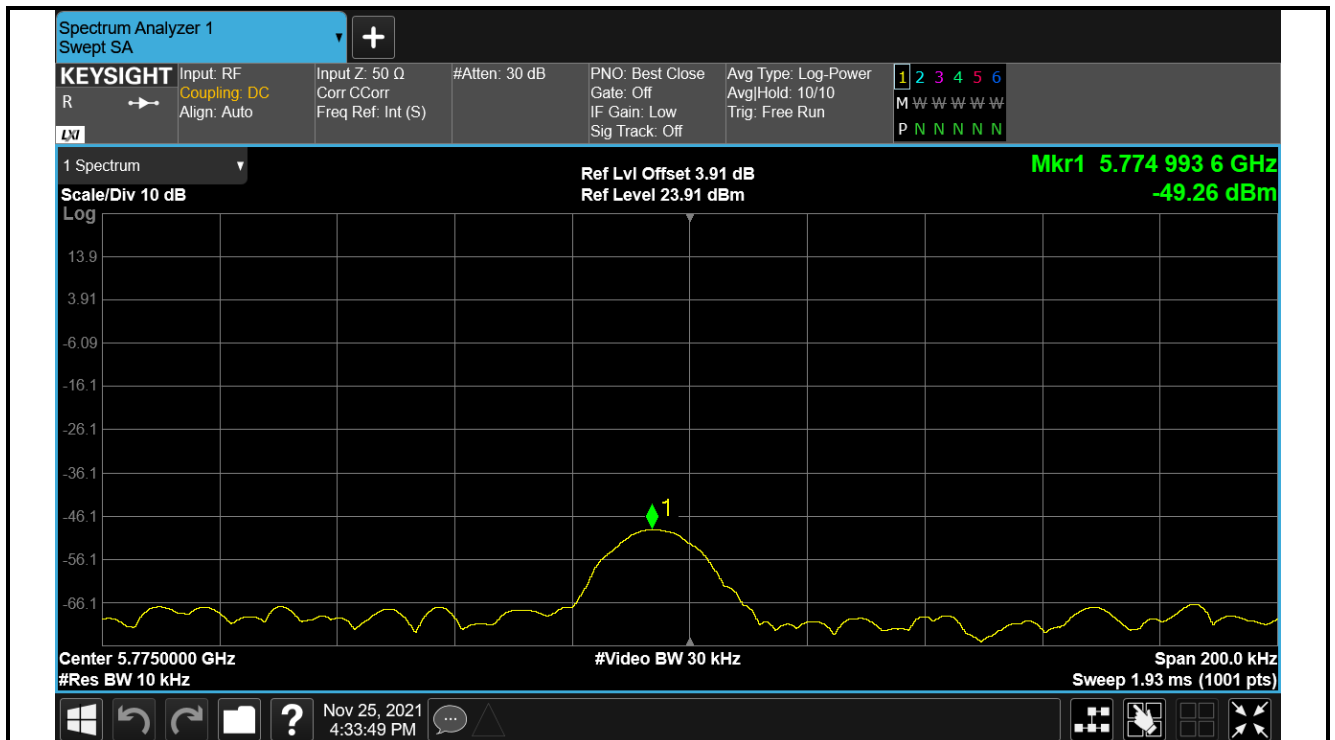


Freq. Stability LVLTA 5745MHz Ant1

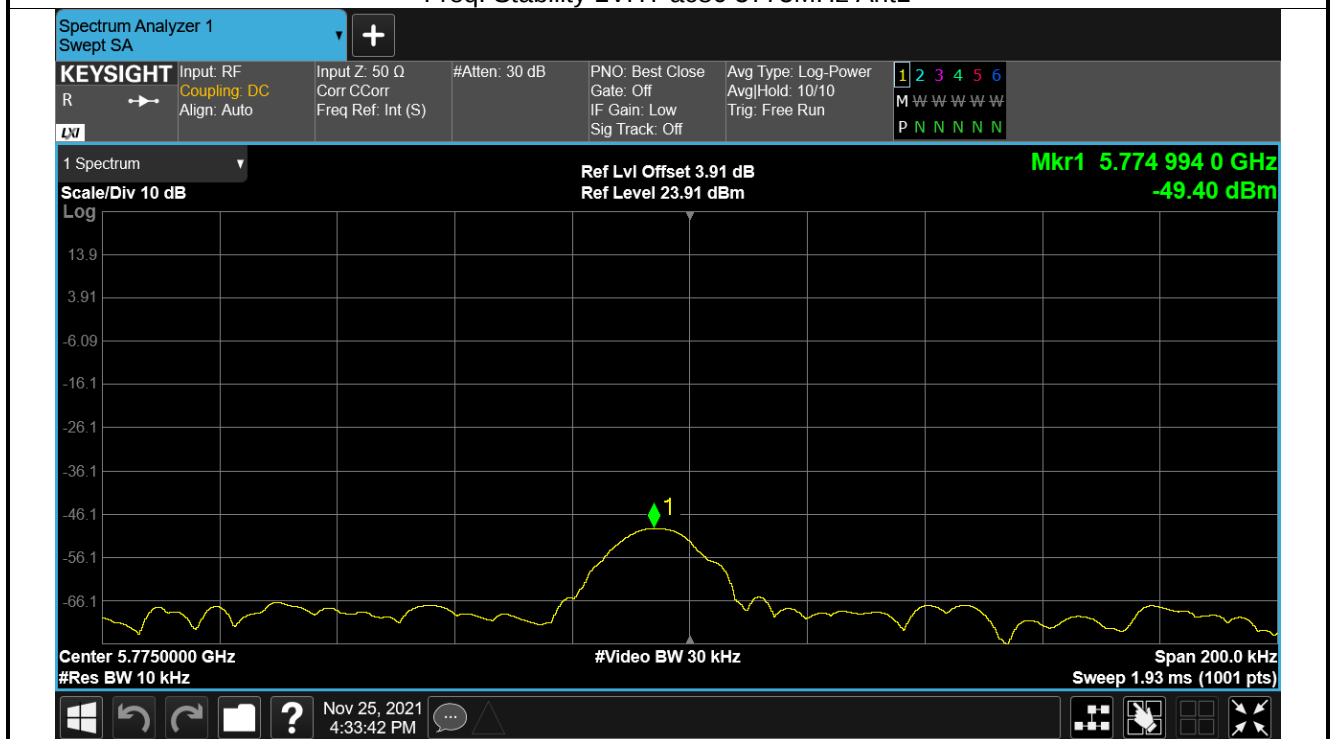


Freq. Stability NVNT a 5745MHz Ant1

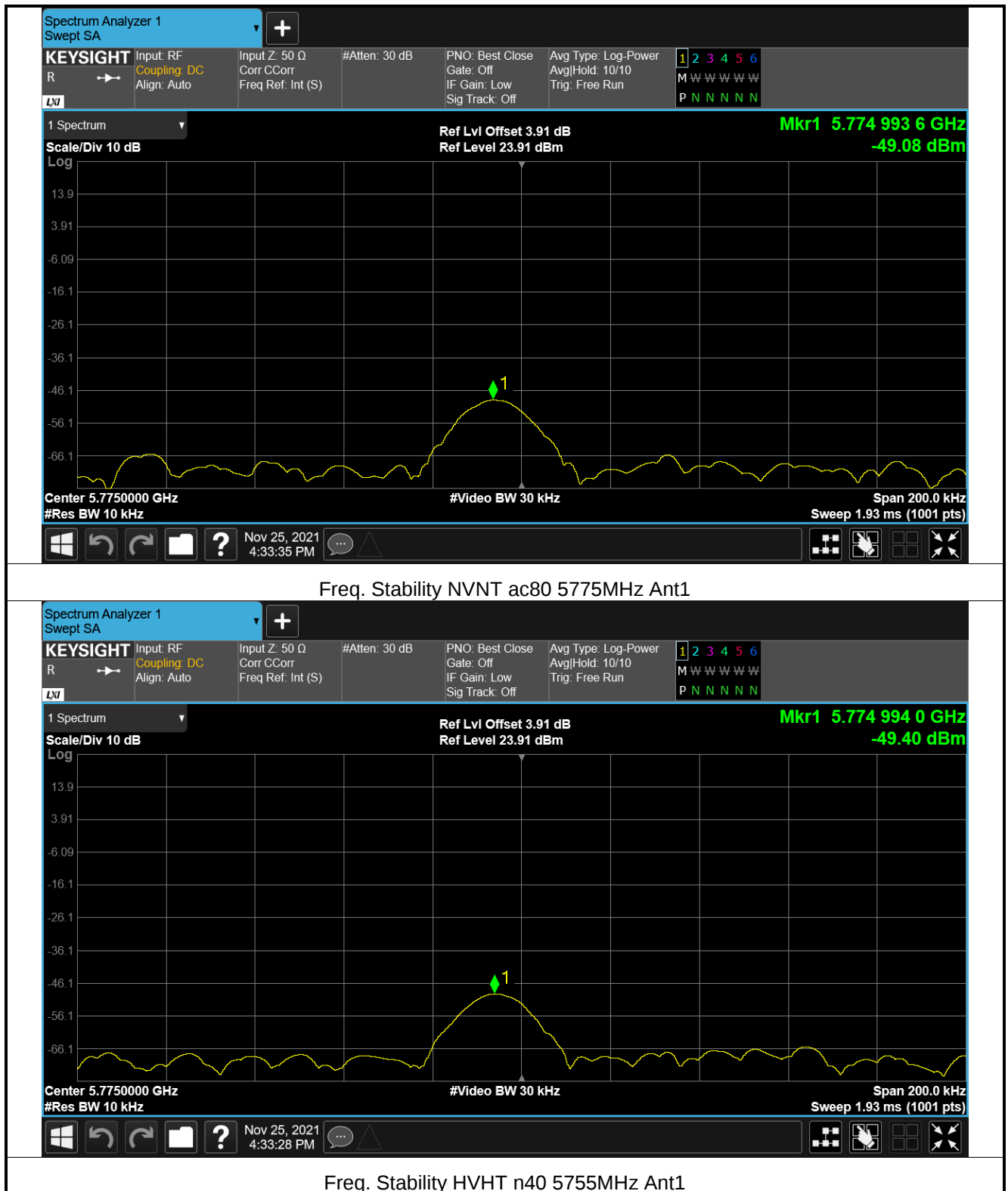




Freq. Stability LVHT ac80 5775MHz Ant1



Freq. Stability LVLT ac80 5775MHz Ant1



Spectrum Analyzer 1

Swept SA

+

KEYSIGHT

R

Input: RF

Coupling: DC

Align: Auto

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 2 3 4 5 6

M W W W W W

P N N N N N

1 Spectrum

▼

Ref Lvl Offset 3.91 dB

Ref Level 23.91 dBm

Mkr1 5.774 994 0 GHz

-49.40 dBm

Scale/Div 10 dB

Log

Center 5.7750000 GHz

#Res BW 10 kHz

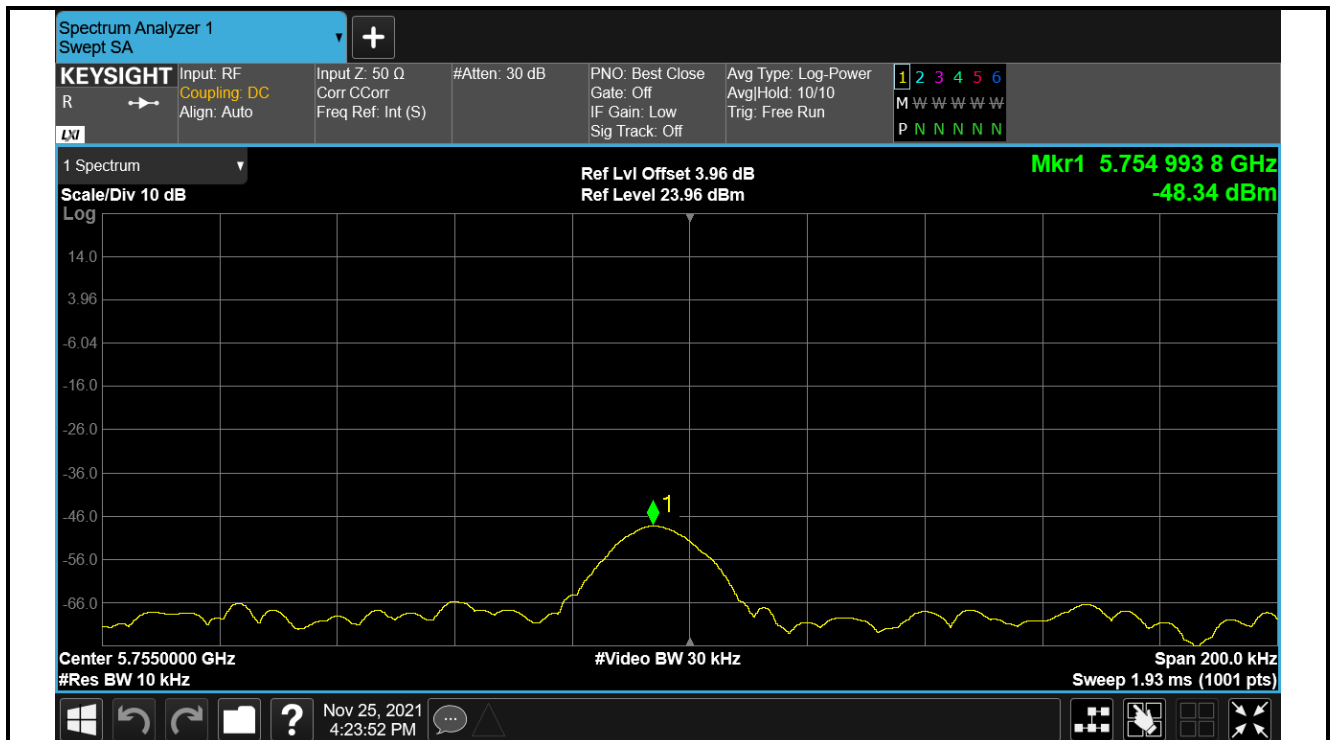
#Video BW 30 kHz

Span 200.0 kHz

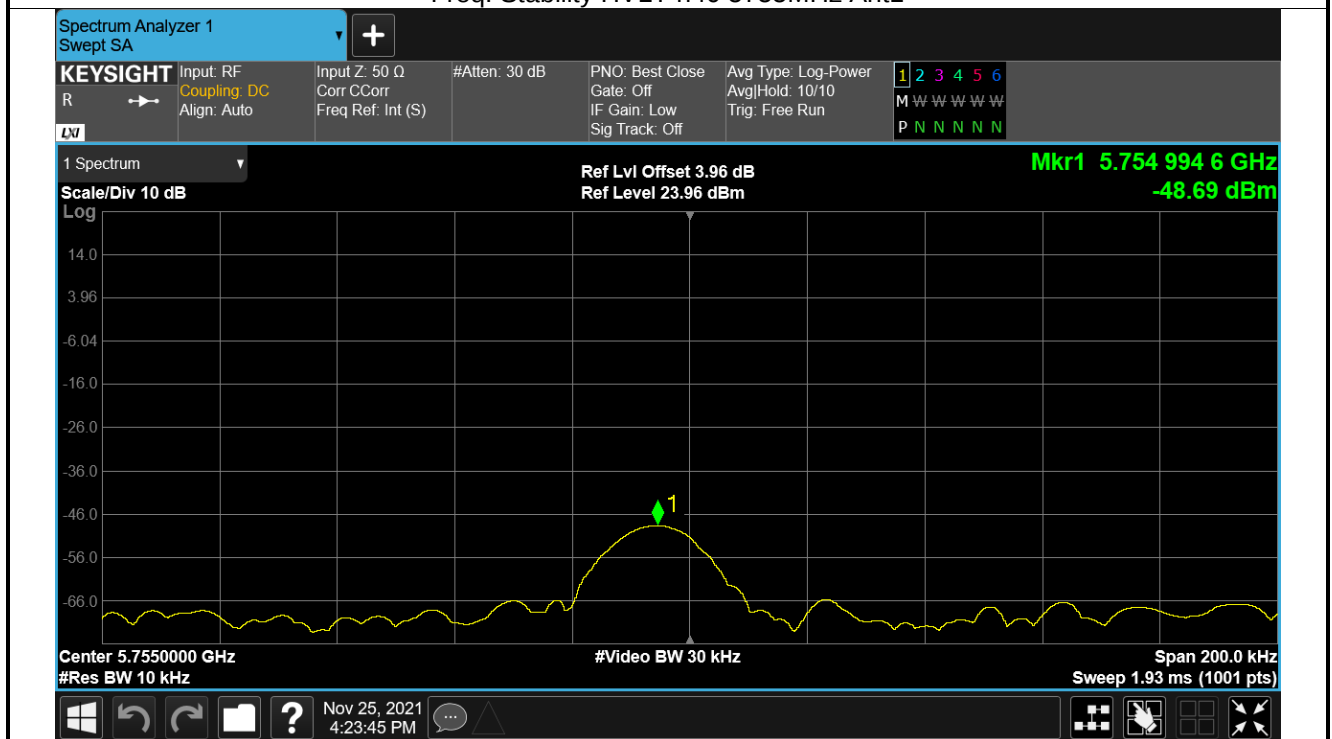
Sweep 1.93 ms (1001 pts)

Nov 25, 2021

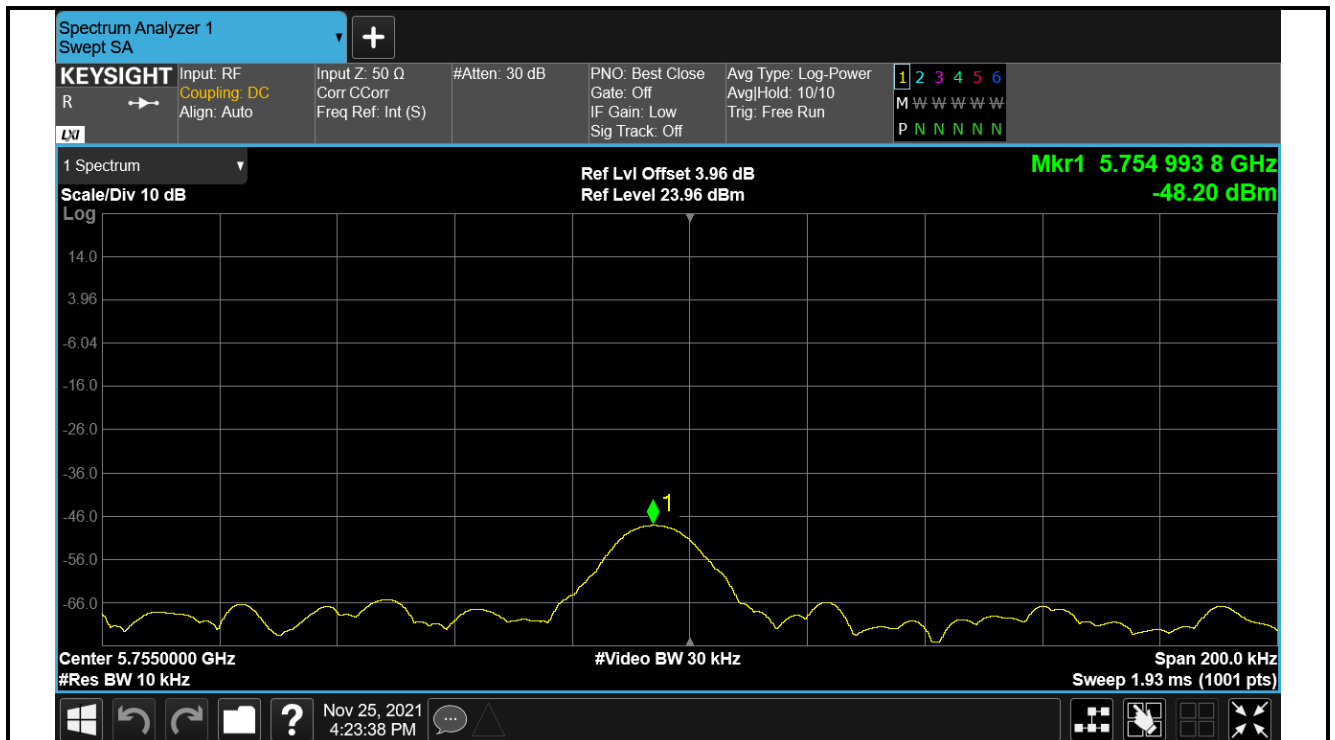
4:33:28 PM



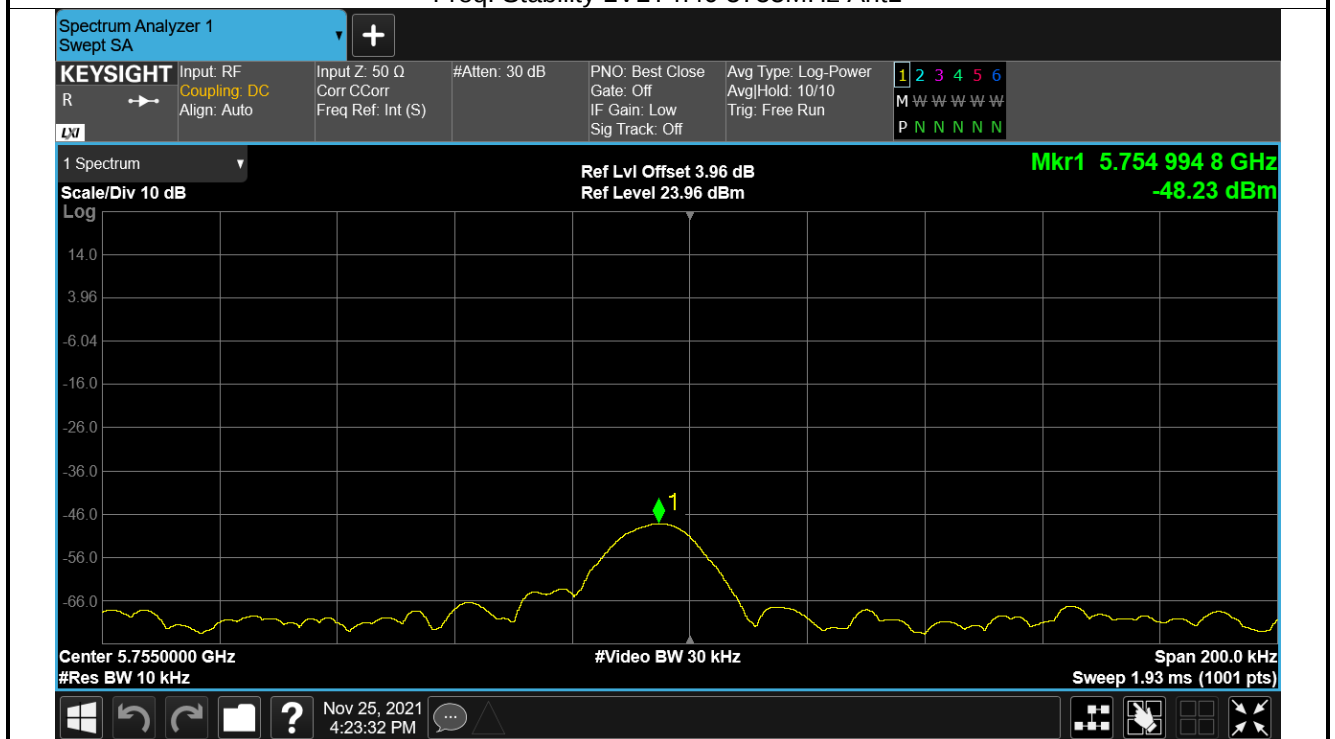
Freq. Stability HVLt n40 5755MHz Ant1



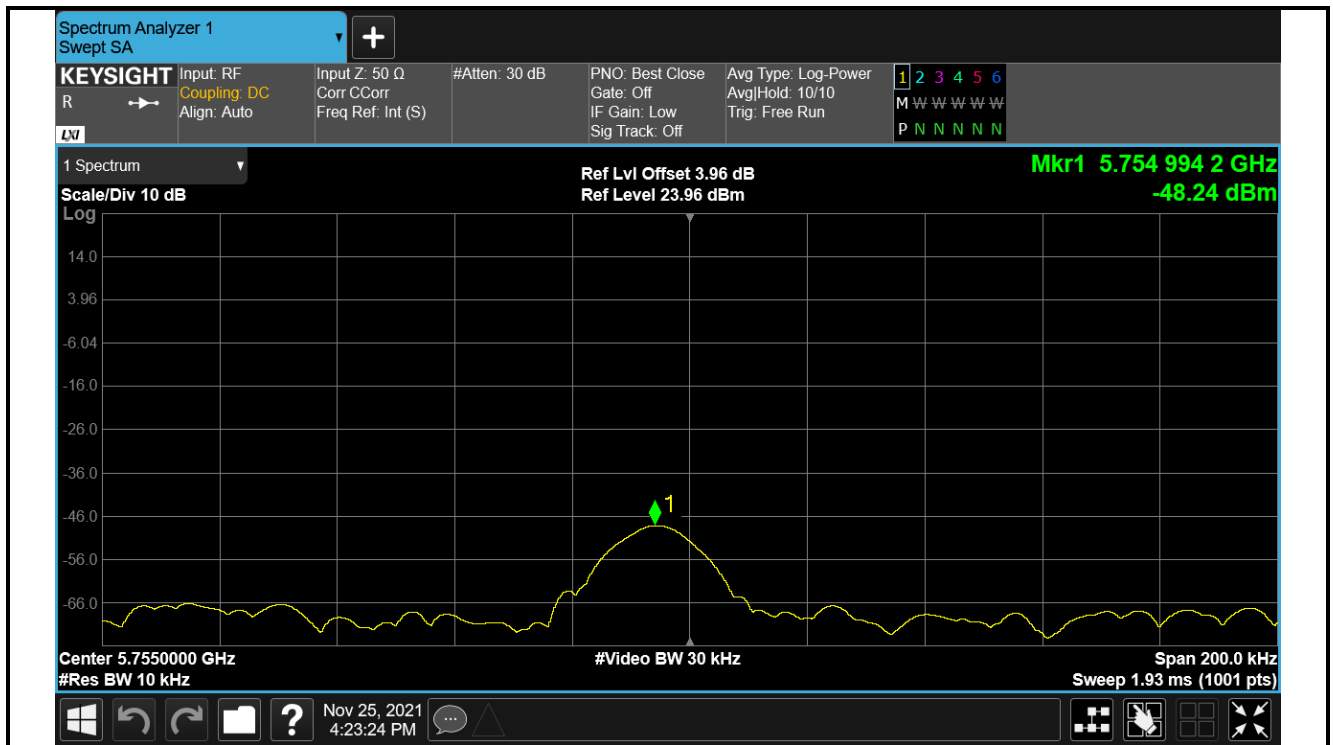
Freq. Stability LVHT n40 5755MHz Ant1



Freq. Stability LVLT n40 5755MHz Ant1



Freq. Stability NVNT n40 5755MHz Ant1



B.2 Duty Cycle

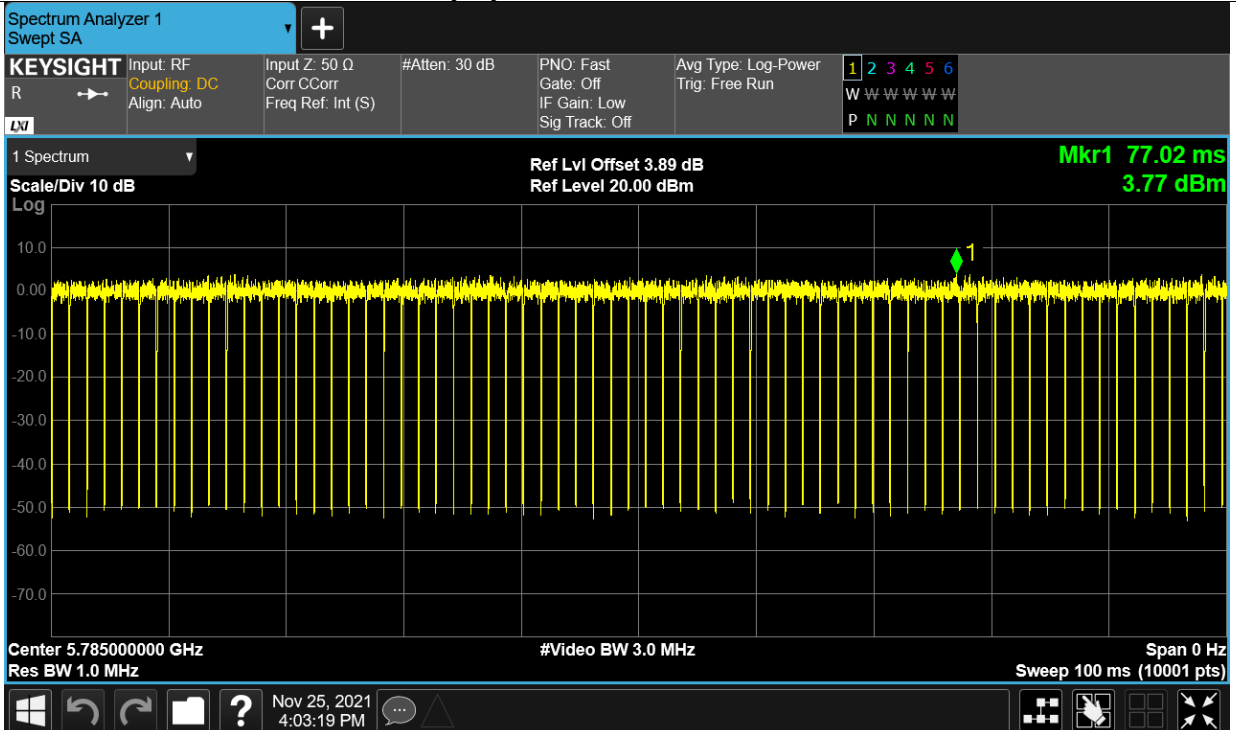
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	94.77	0.23
NVNT	a	5785	Ant1	94.69	0.24
NVNT	a	5825	Ant1	94.77	0.23
NVNT	ac20	5745	Ant1	94.46	0.25
NVNT	ac20	5785	Ant1	94.24	0.26
NVNT	ac20	5825	Ant1	94.46	0.25
NVNT	ac40	5755	Ant1	89.28	0.49
NVNT	ac40	5795	Ant1	89.29	0.49
NVNT	ac80	5775	Ant1	81.14	0.91
NVNT	n20	5745	Ant1	94.24	0.26
NVNT	n20	5785	Ant1	94.32	0.25
NVNT	n20	5825	Ant1	94.32	0.25
NVNT	n40	5755	Ant1	89.47	0.48
NVNT	n40	5795	Ant1	89.12	0.5

Test Graphs

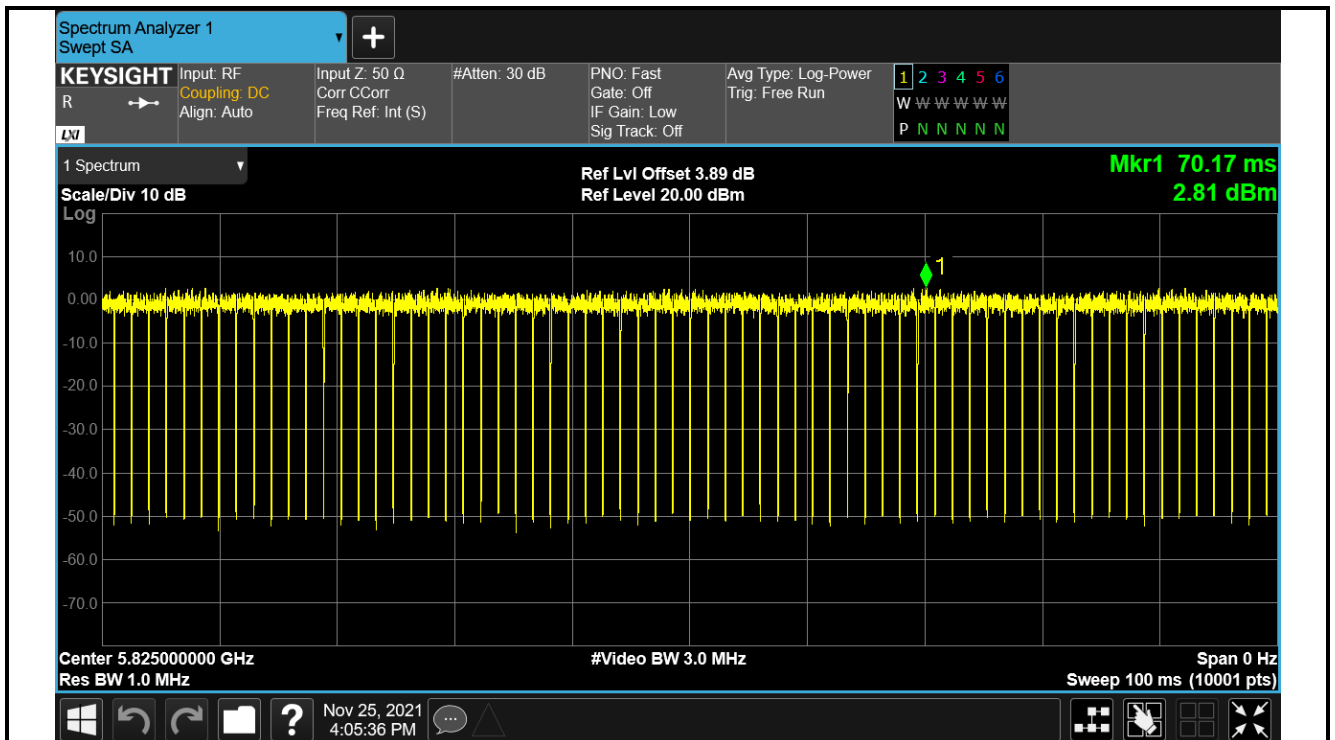
Duty Cycle NVNT a 5745MHz Ant1



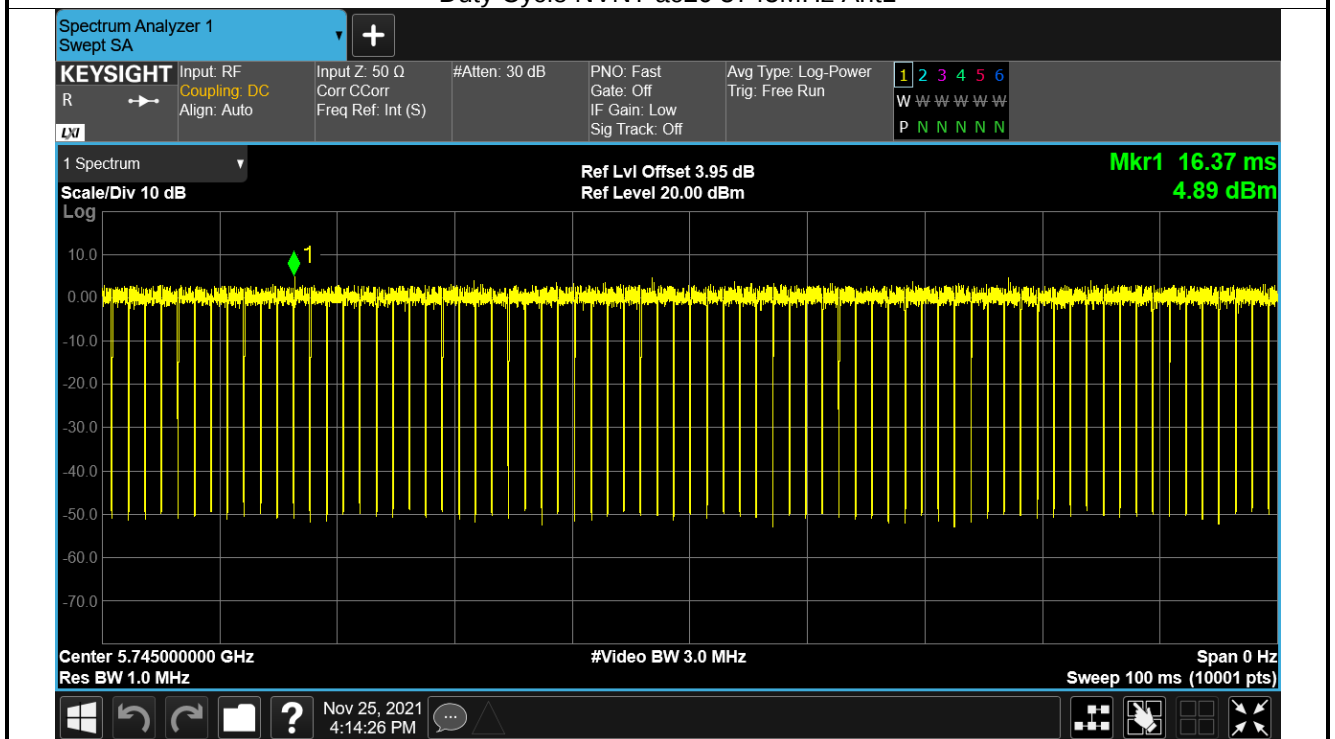
Duty Cycle NVNT a 5785MHz Ant1



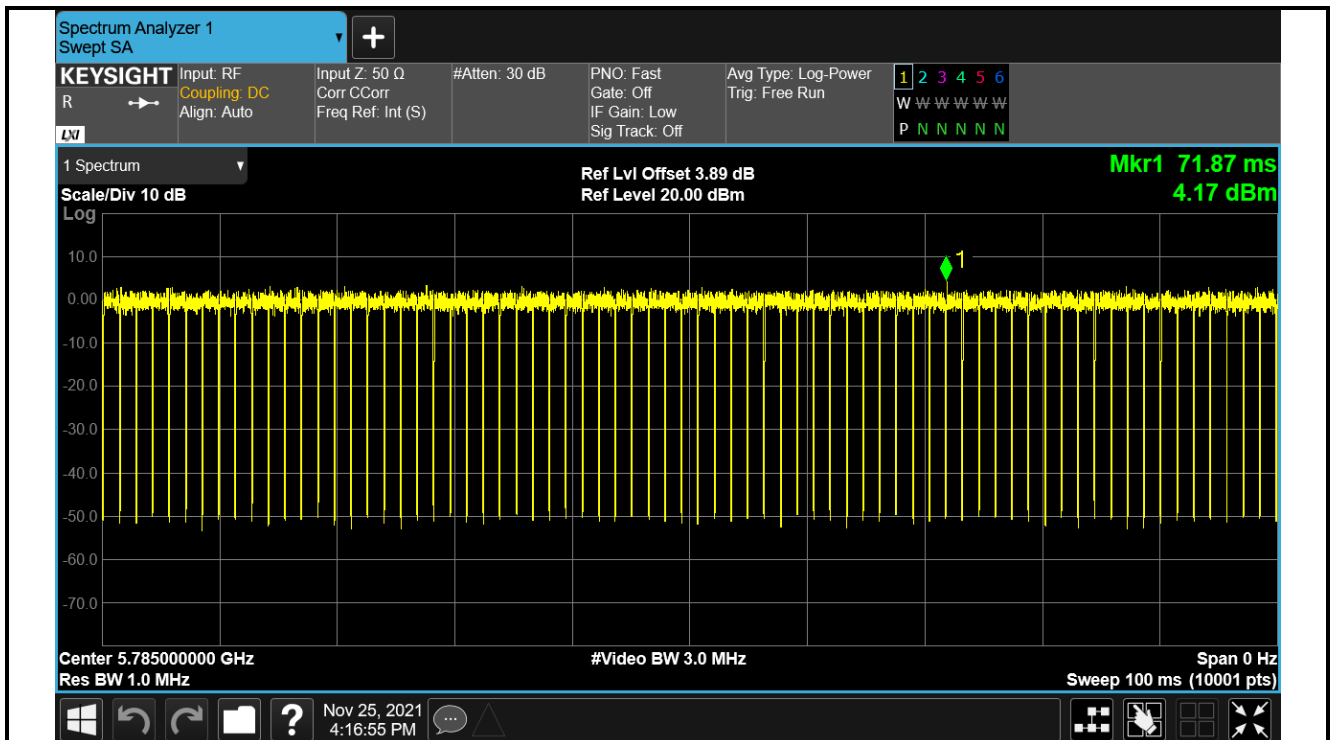
Duty Cycle NVNT a 5825MHz Ant1



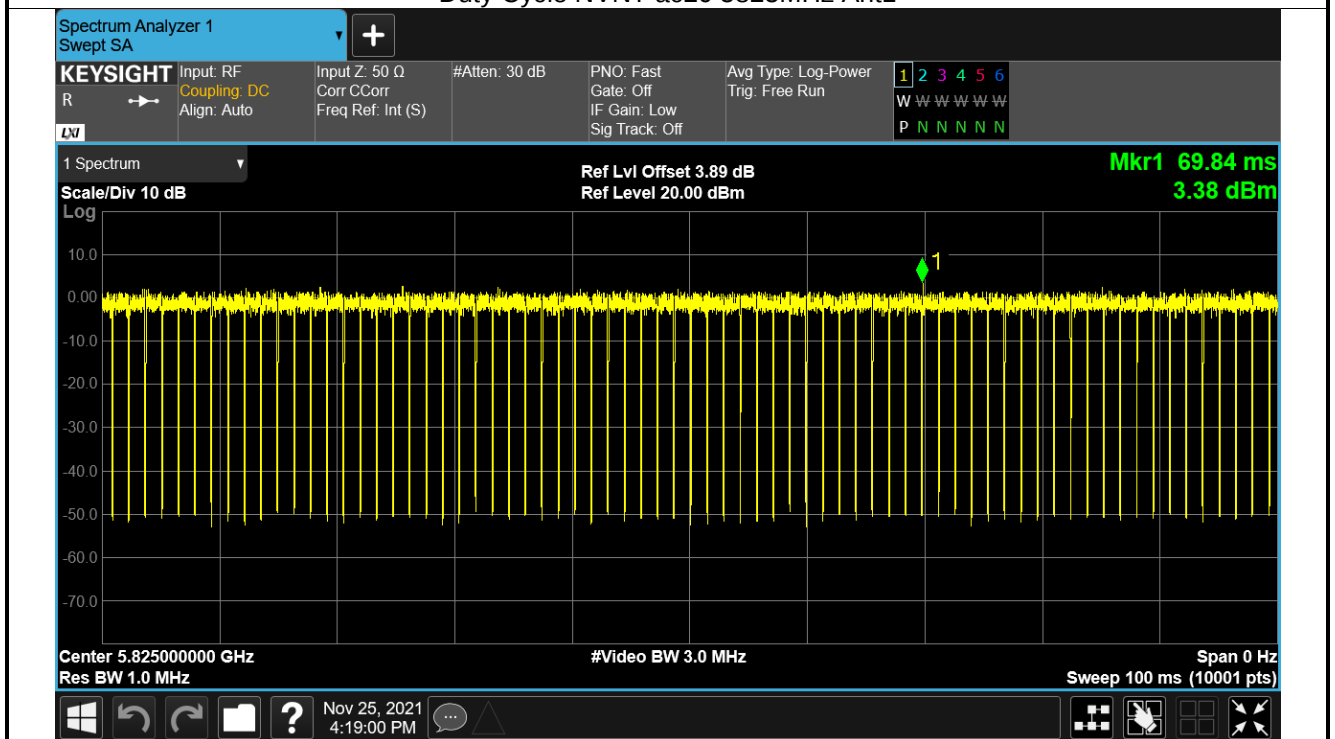
Duty Cycle NVNT ac20 5745MHz Ant1



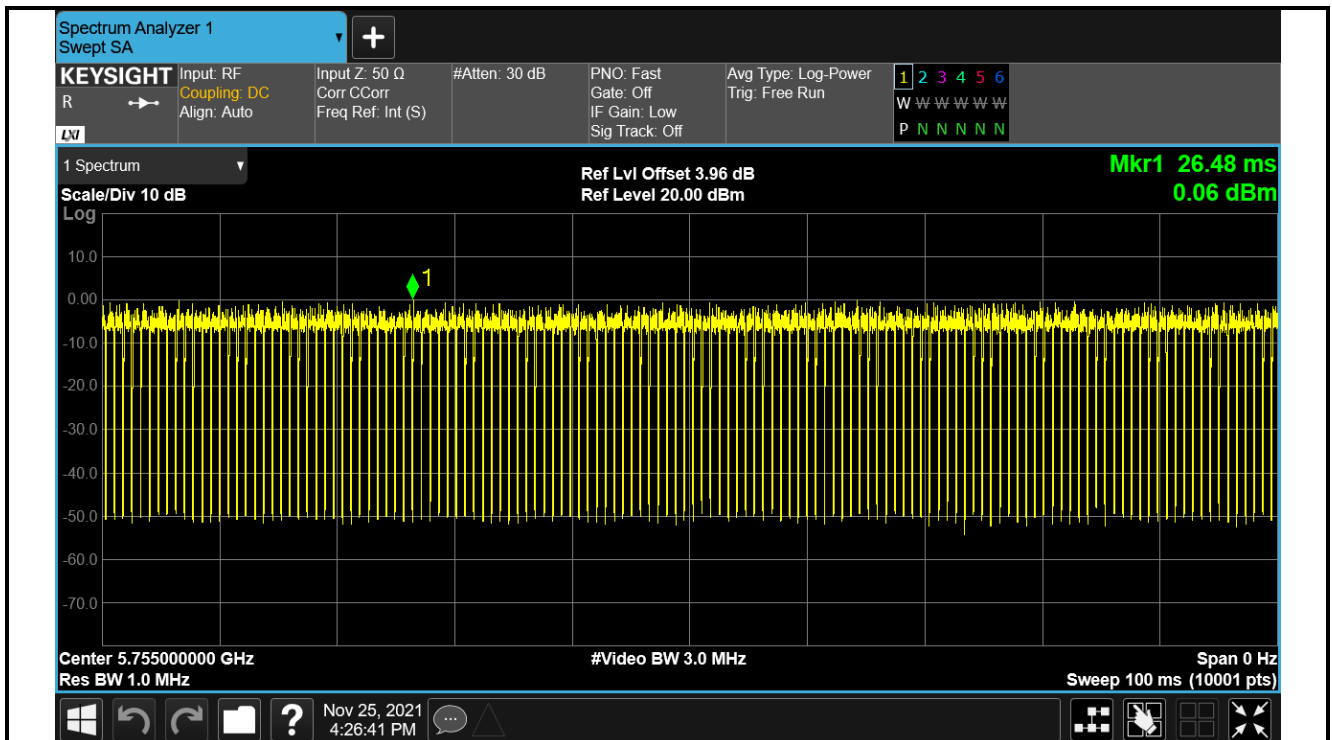
Duty Cycle NVNT ac20 5785MHz Ant1



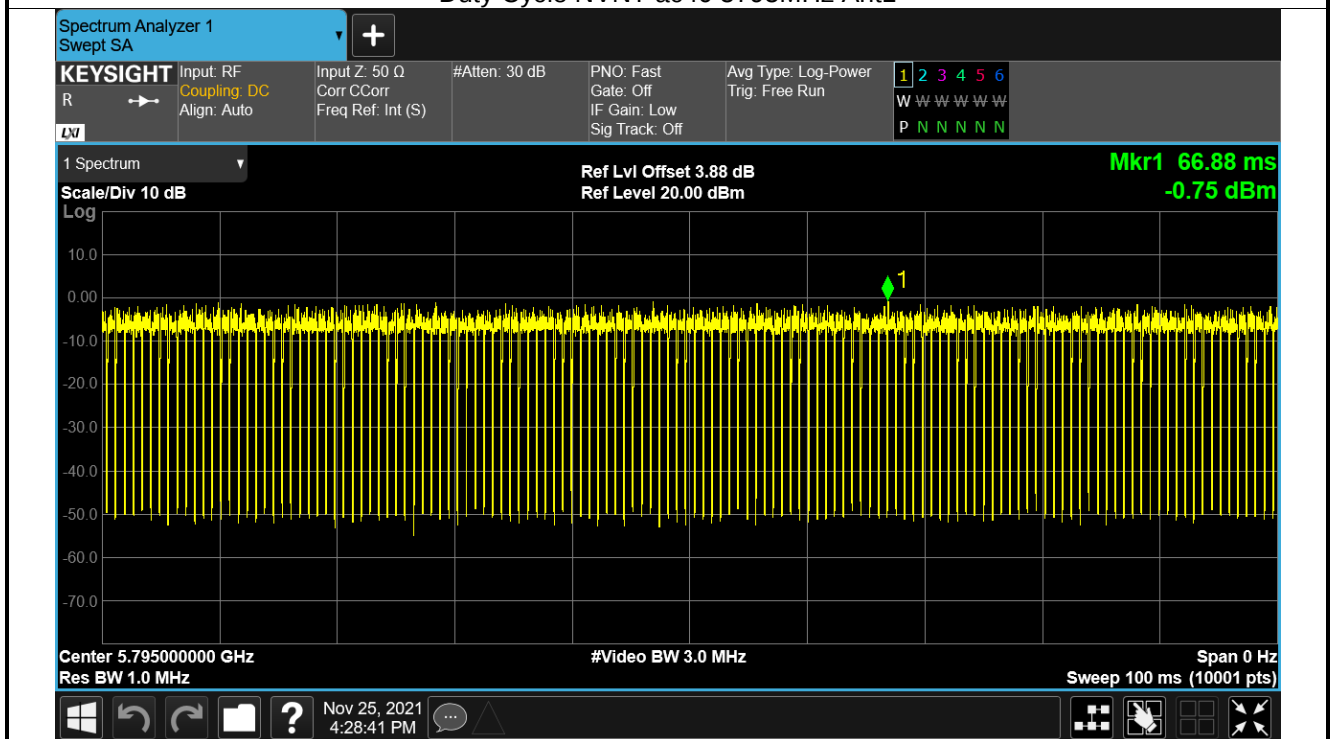
Duty Cycle NVNT ac20 5825MHz Ant1



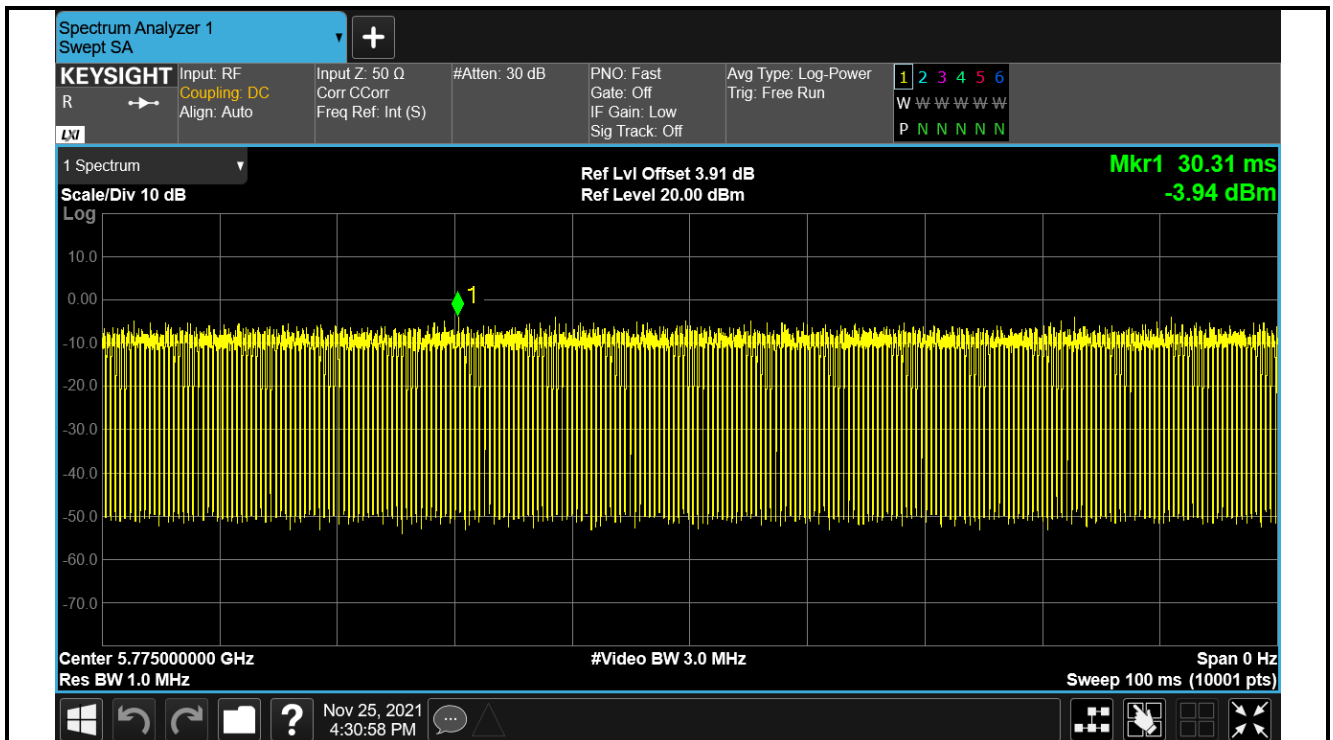
Duty Cycle NVNT ac40 5755MHz Ant1



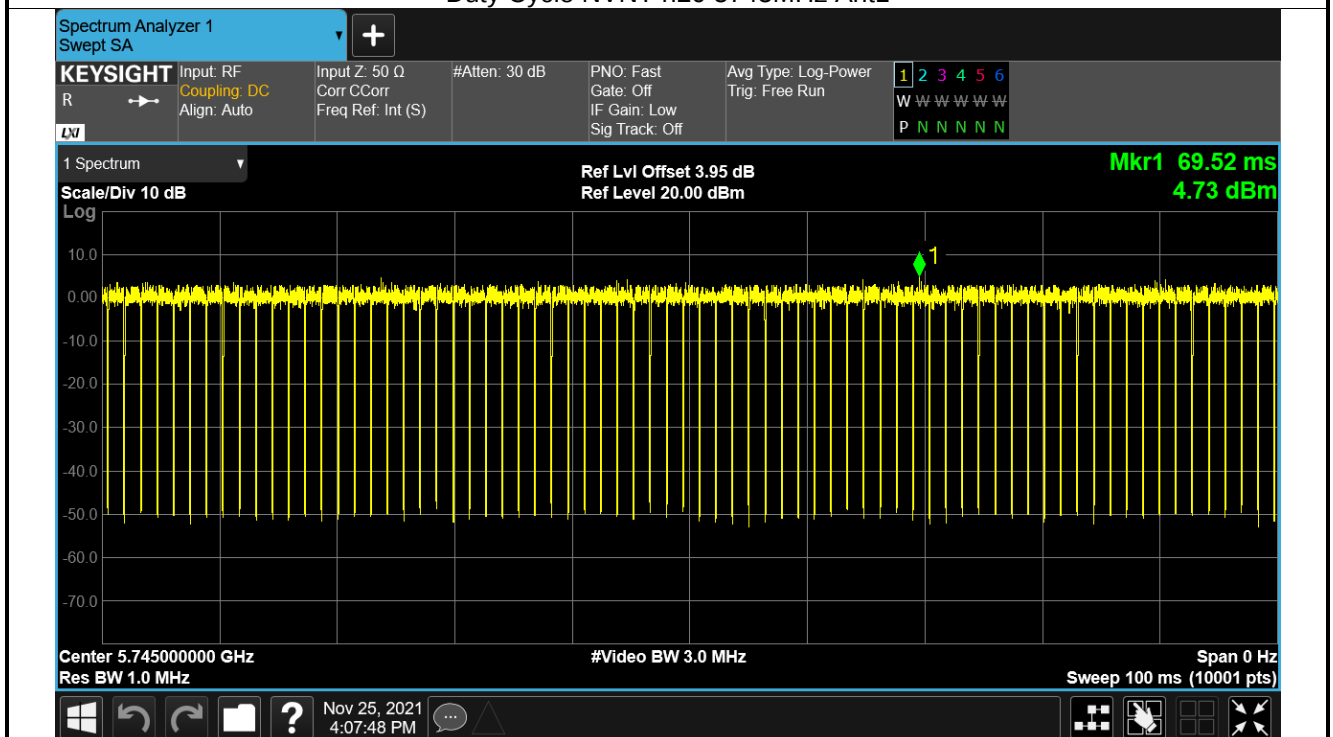
Duty Cycle NVNT ac40 5795MHz Ant1



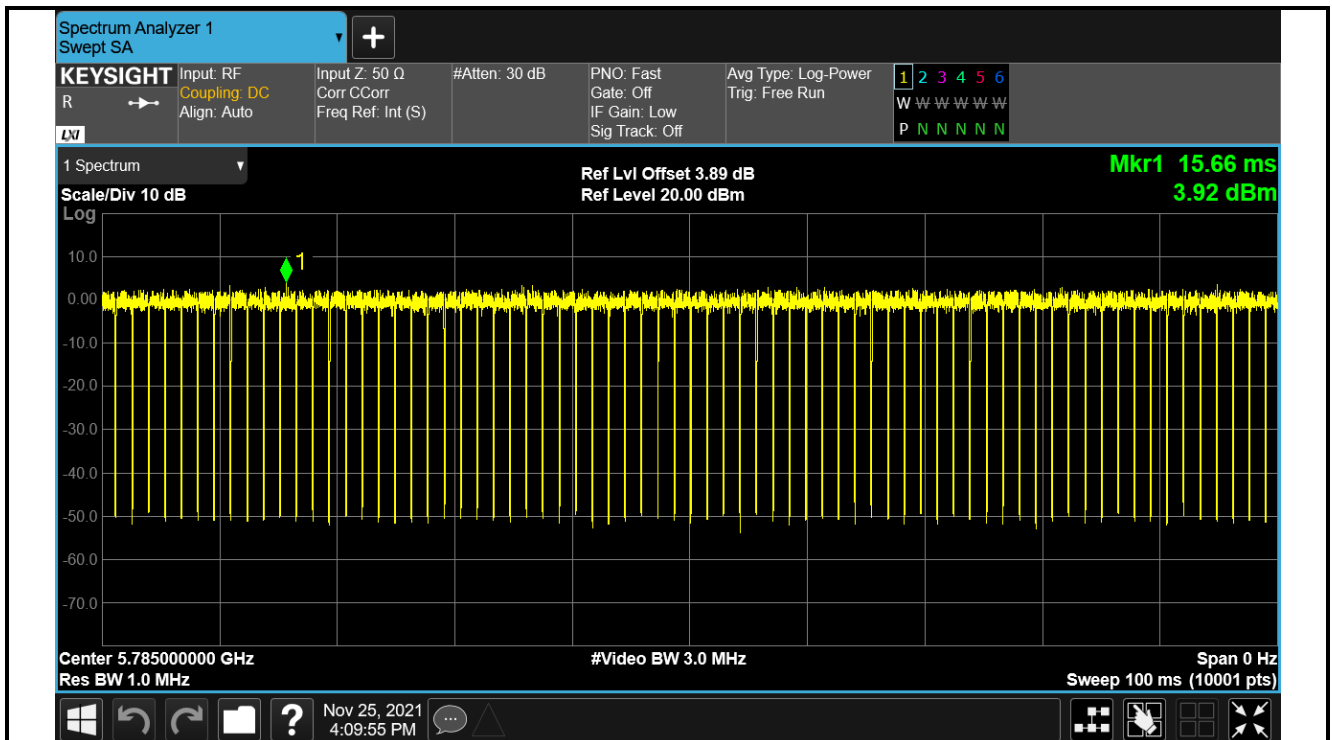
Duty Cycle NVNT ac80 5775MHz Ant1



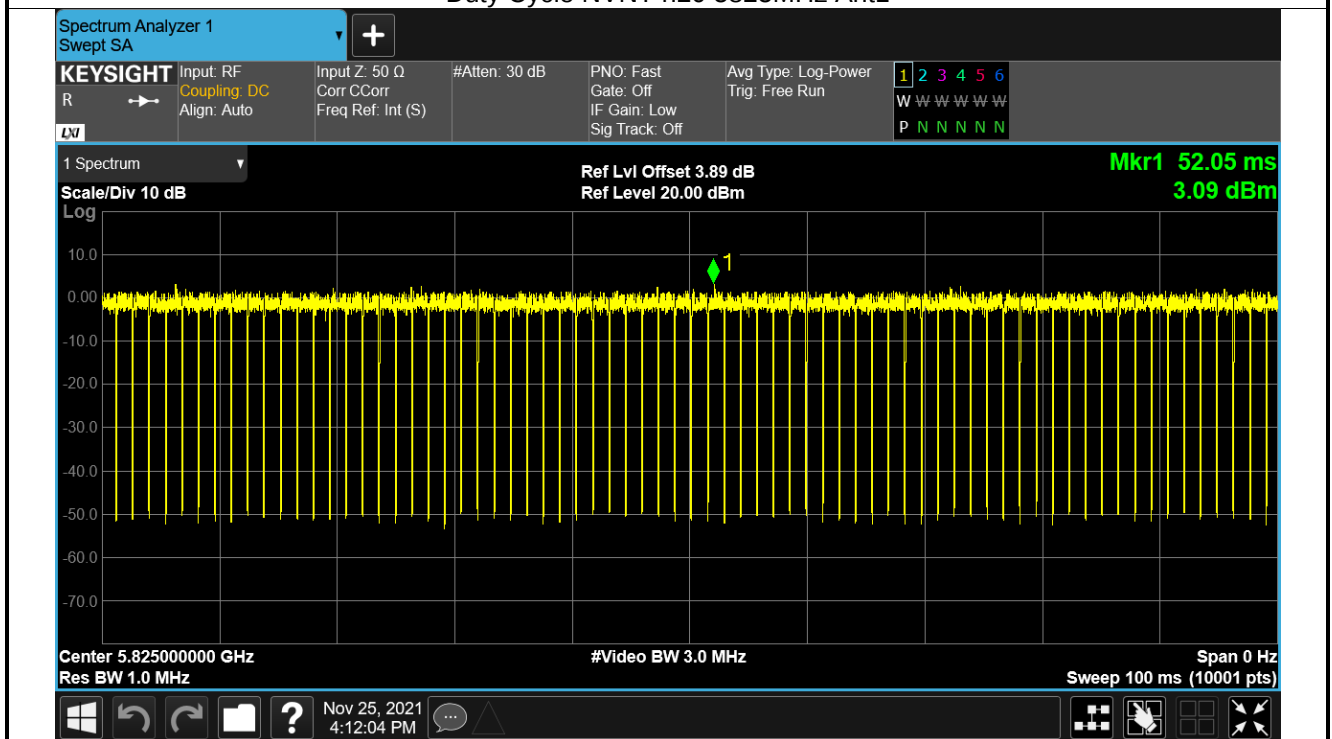
Duty Cycle NVNT n20 5745MHz Ant1



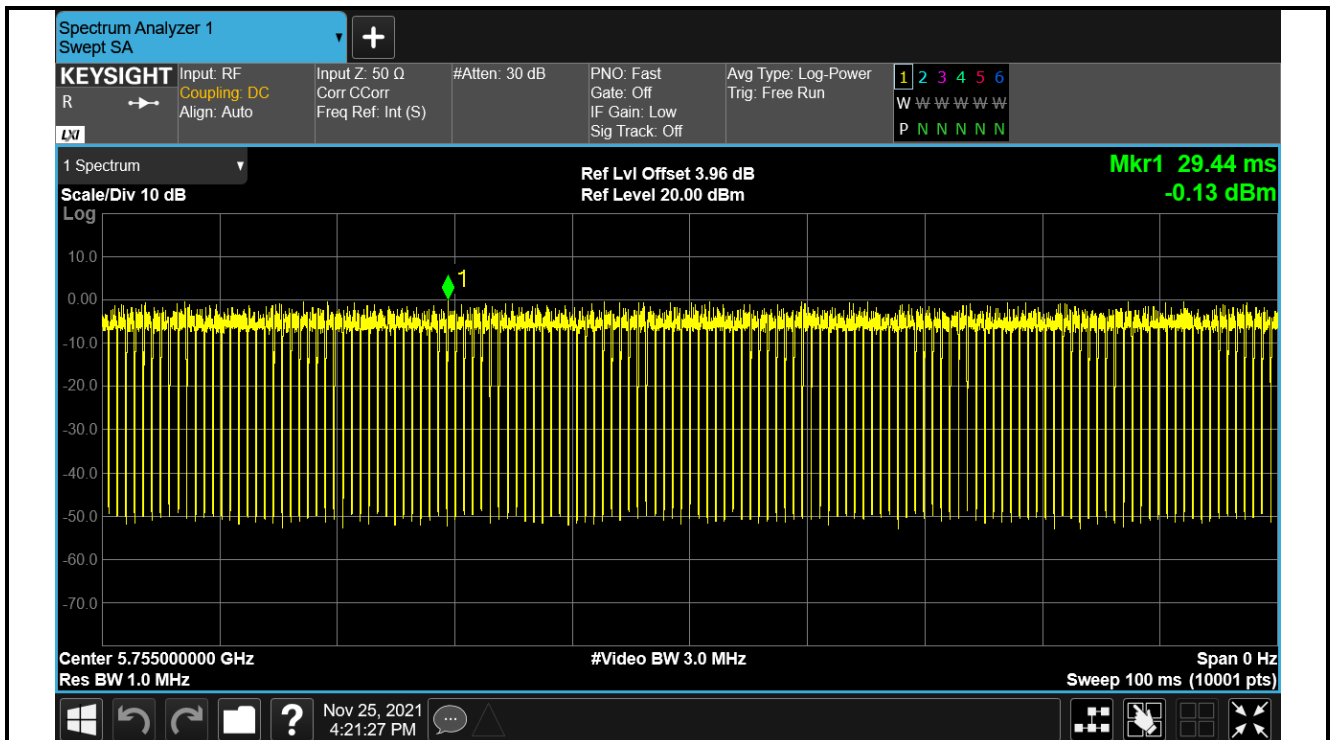
Duty Cycle NVNT n20 5785MHz Ant1



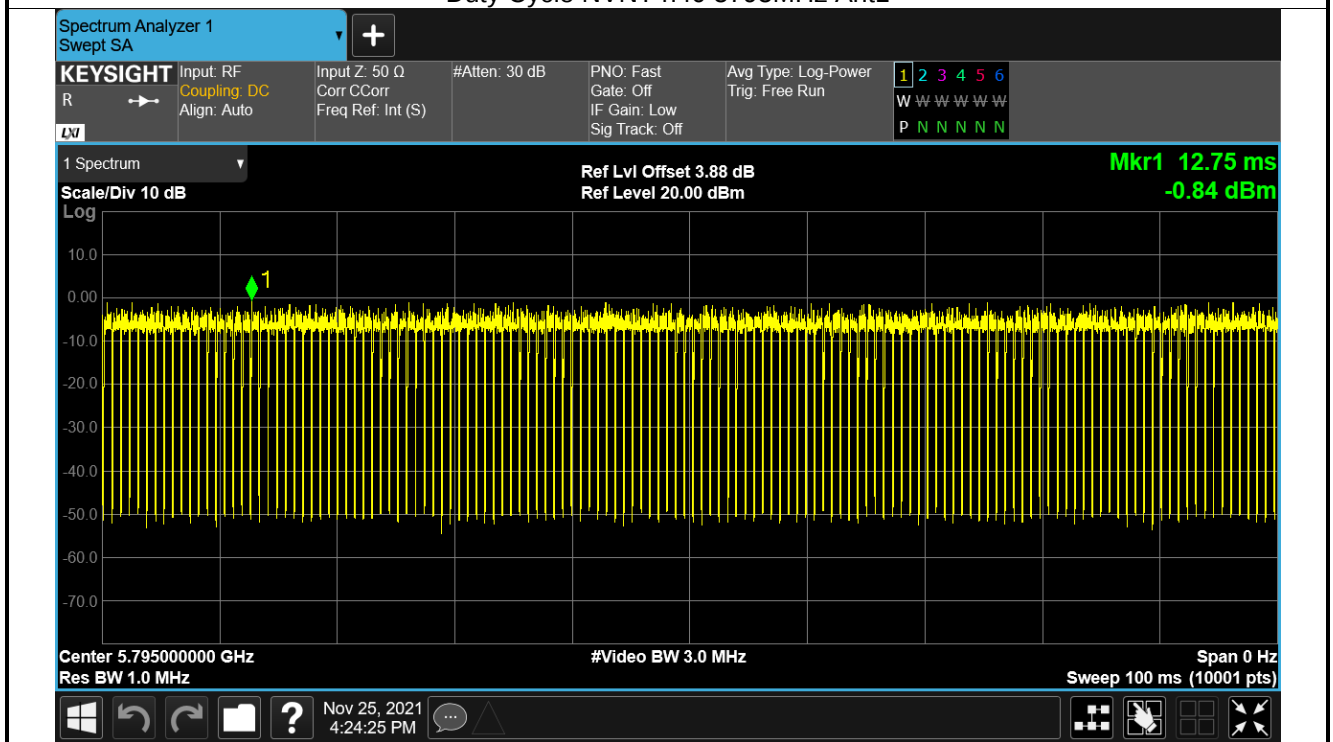
Duty Cycle NVNT n20 5825MHz Ant1



Duty Cycle NVNT n40 5755MHz Ant1



Duty Cycle NVNT n40 5795MHz Ant1



B.3 Maximum Conducted Output Power

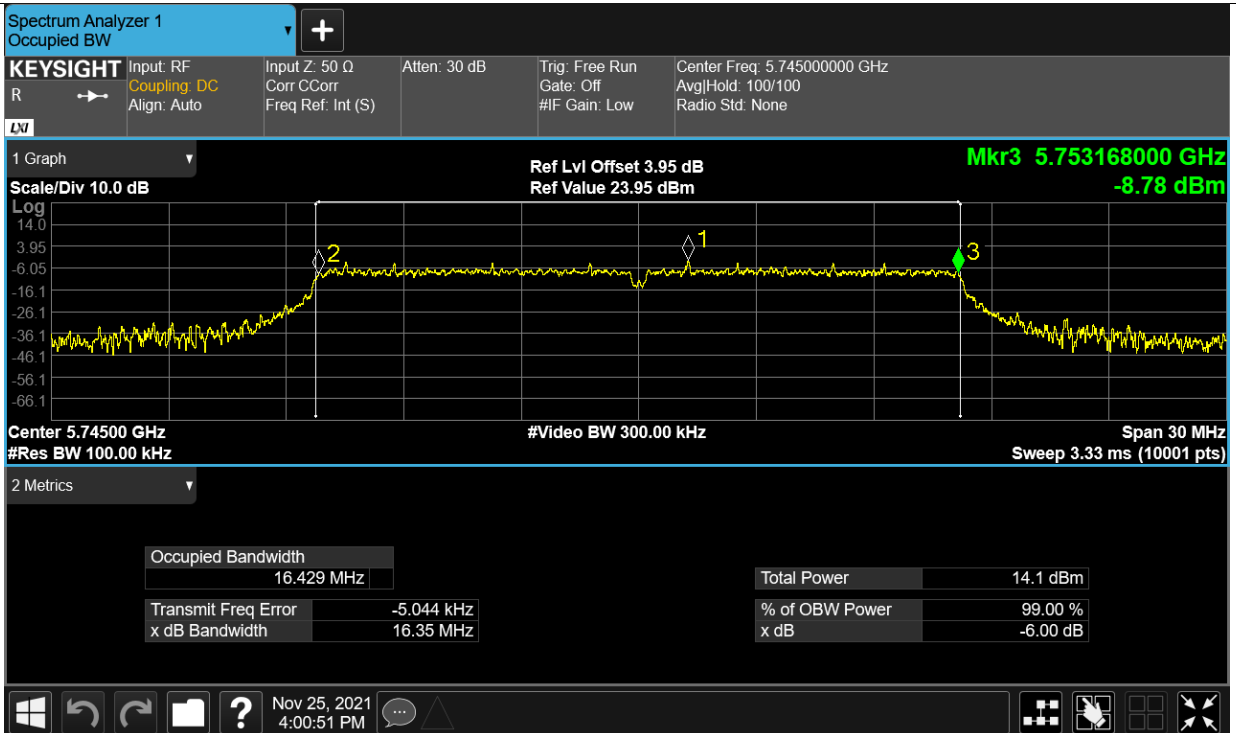
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	8.93	0.23	9.16	30	Pass
NVNT	a	5785	Ant1	8.44	0.24	8.68	30	Pass
NVNT	a	5825	Ant1	8.06	0.23	8.29	30	Pass
NVNT	ac20	5745	Ant1	8.72	0.25	8.97	30	Pass
NVNT	ac20	5785	Ant1	8.29	0.26	8.55	30	Pass
NVNT	ac20	5825	Ant1	7.96	0.25	8.21	30	Pass
NVNT	ac40	5755	Ant1	9	0.49	9.49	30	Pass
NVNT	ac40	5795	Ant1	8.57	0.49	9.06	30	Pass
NVNT	ac80	5775	Ant1	8.6	0.91	9.51	30	Pass
NVNT	n20	5745	Ant1	8.86	0.26	9.12	30	Pass
NVNT	n20	5785	Ant1	8.3	0.25	8.55	30	Pass
NVNT	n20	5825	Ant1	7.98	0.25	8.23	30	Pass
NVNT	n40	5755	Ant1	9.05	0.48	9.53	30	Pass
NVNT	n40	5795	Ant1	8.73	0.5	9.23	30	Pass

B.4 -6dB Bandwidth

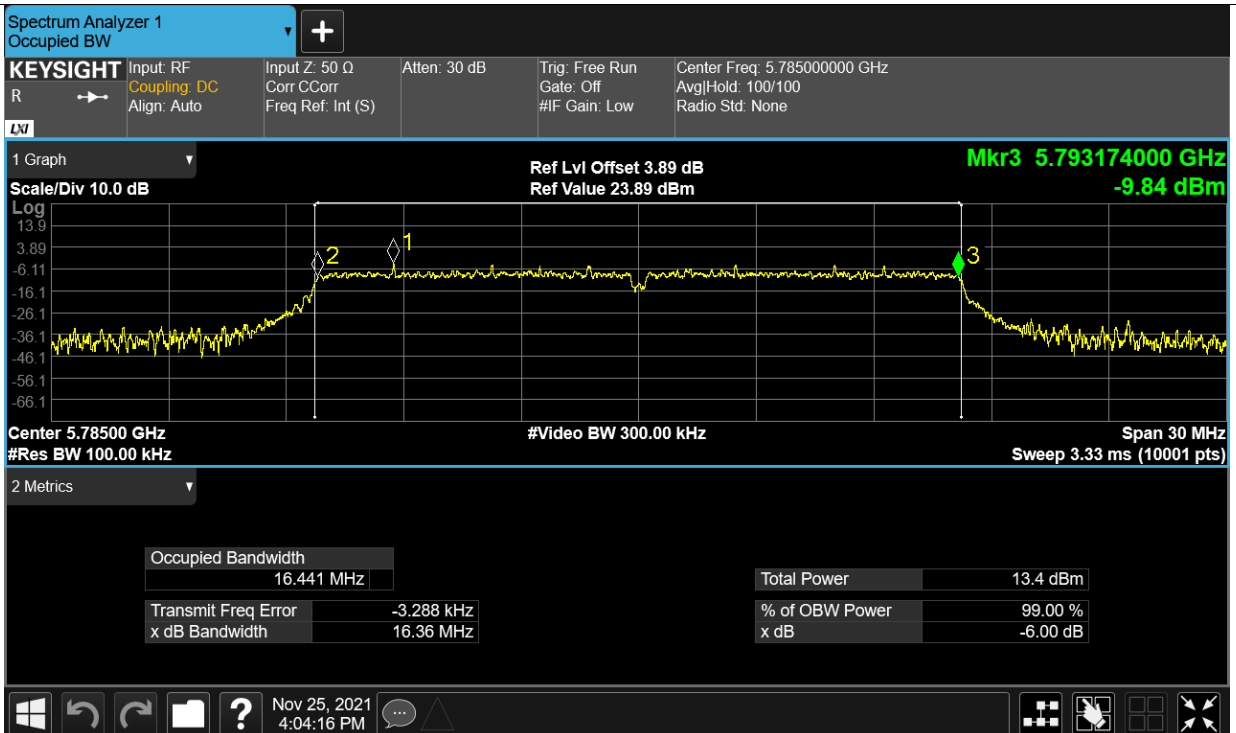
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.345	0.5	Pass
NVNT	a	5785	Ant1	16.355	0.5	Pass
NVNT	a	5825	Ant1	16.355	0.5	Pass
NVNT	ac20	5745	Ant1	17.327	0.5	Pass
NVNT	ac20	5785	Ant1	17.082	0.5	Pass
NVNT	ac20	5825	Ant1	17.294	0.5	Pass
NVNT	ac40	5755	Ant1	35.704	0.5	Pass
NVNT	ac40	5795	Ant1	35.674	0.5	Pass
NVNT	ac80	5775	Ant1	75.554	0.5	Pass
NVNT	n20	5745	Ant1	17.542	0.5	Pass
NVNT	n20	5785	Ant1	17.158	0.5	Pass
NVNT	n20	5825	Ant1	17.18	0.5	Pass
NVNT	n40	5755	Ant1	35.635	0.5	Pass
NVNT	n40	5795	Ant1	35.688	0.5	Pass

Test Graphs

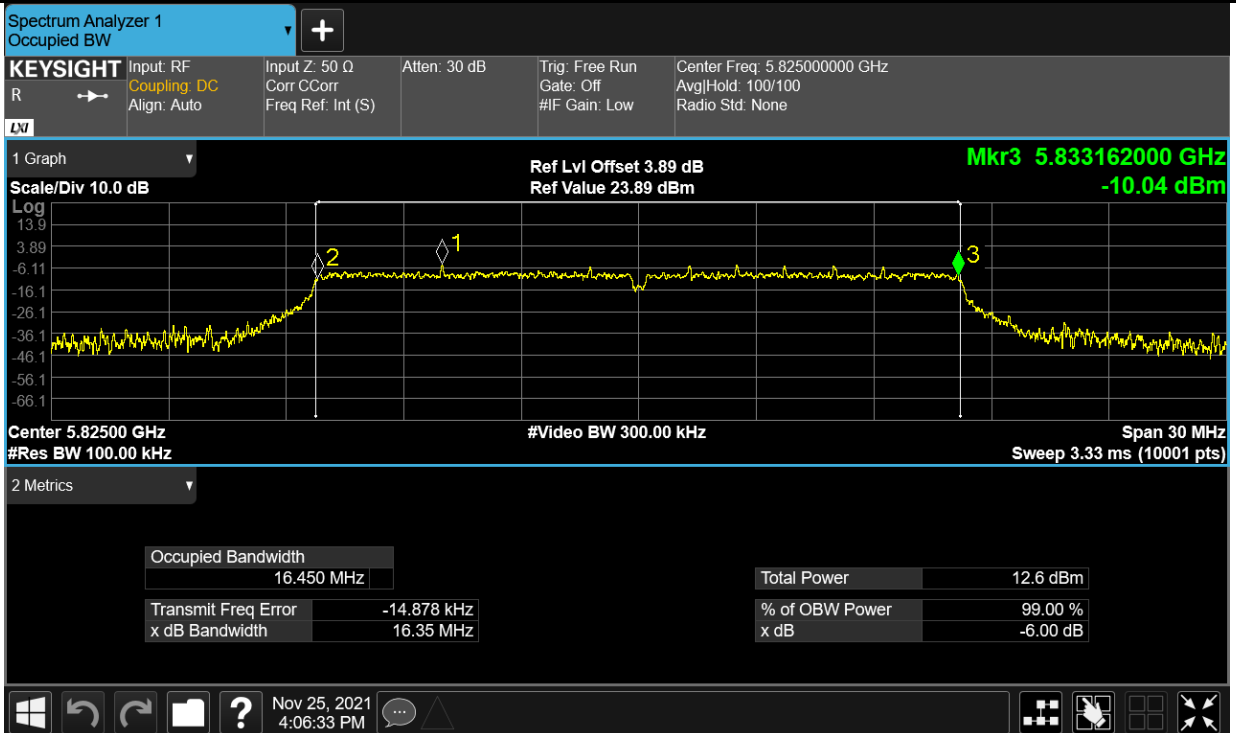
-6dB Bandwidth NVNT a 5745MHz Ant1



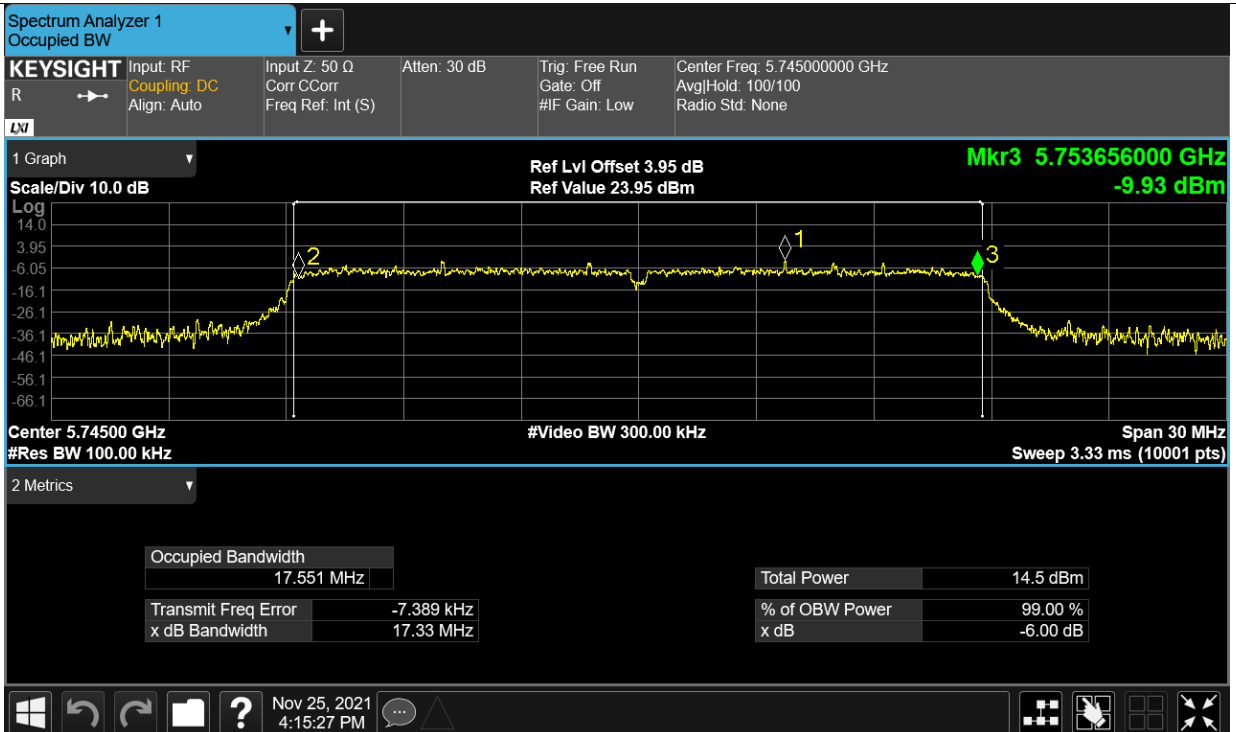
-6dB Bandwidth NVNT a 5785MHz Ant1



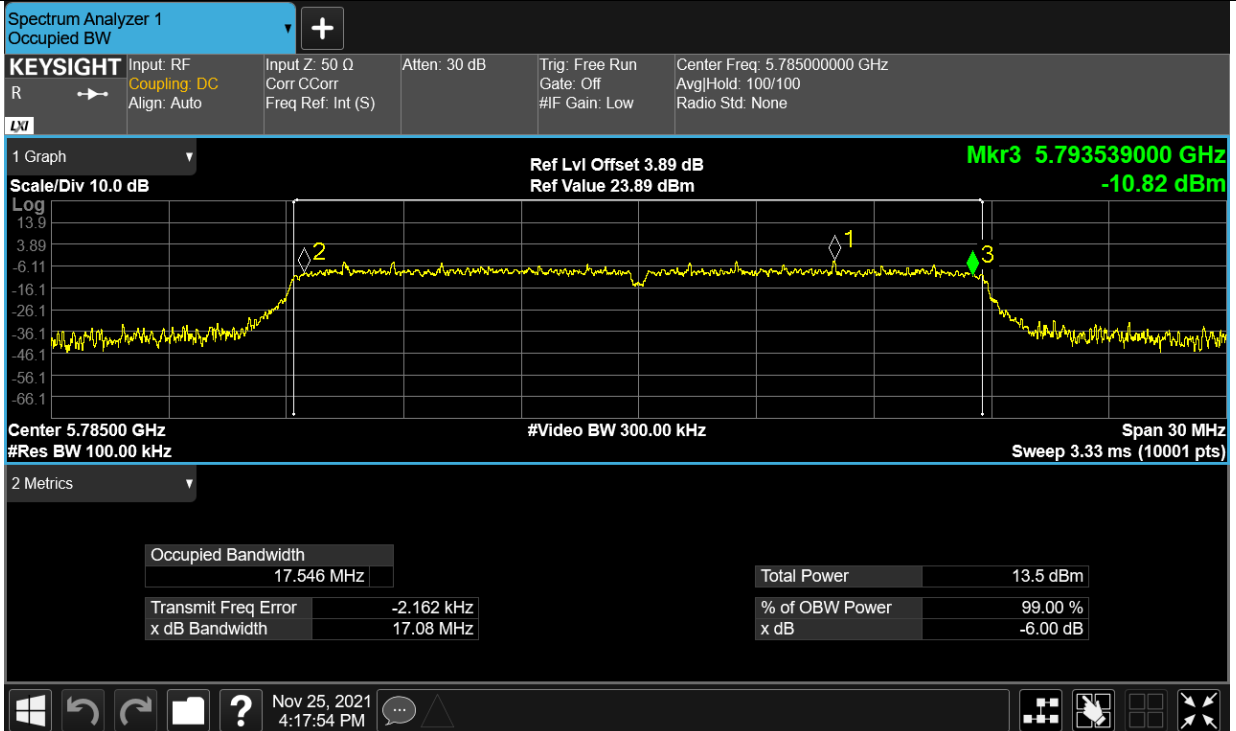
-6dB Bandwidth NVNT a 5825MHz Ant1



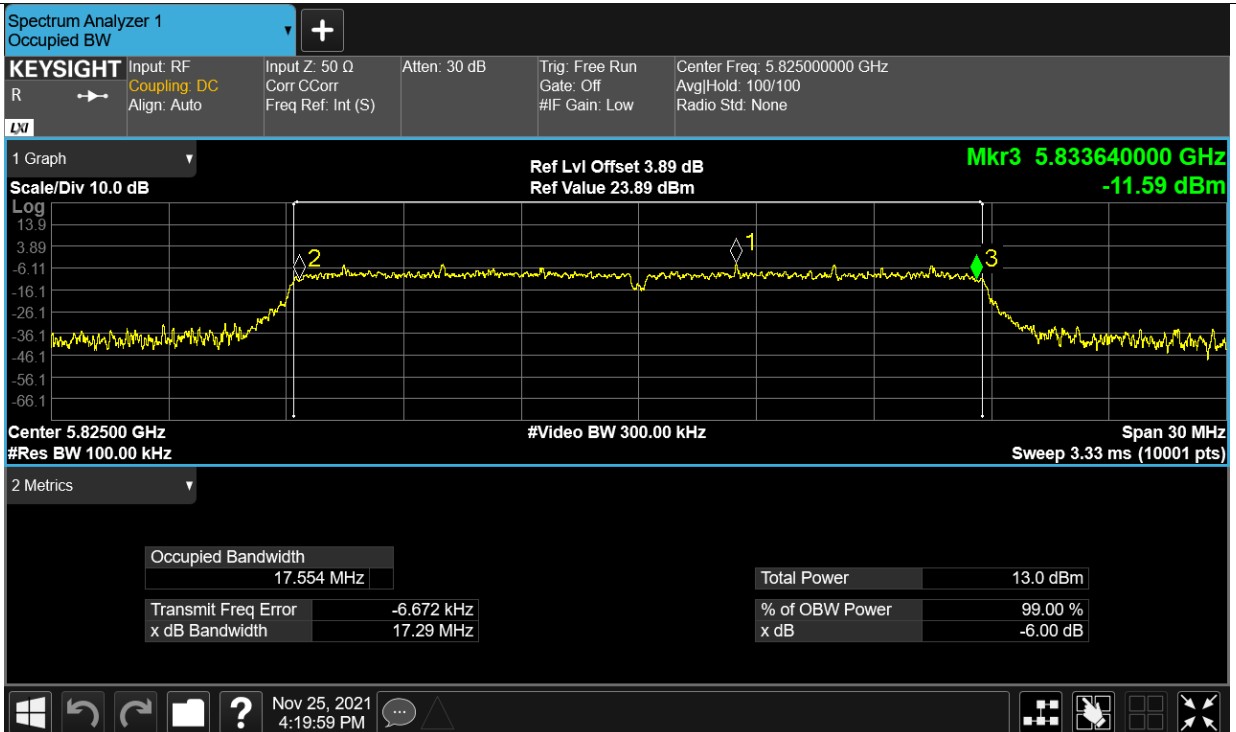
-6dB Bandwidth NVNT ac20 5745MHz Ant1



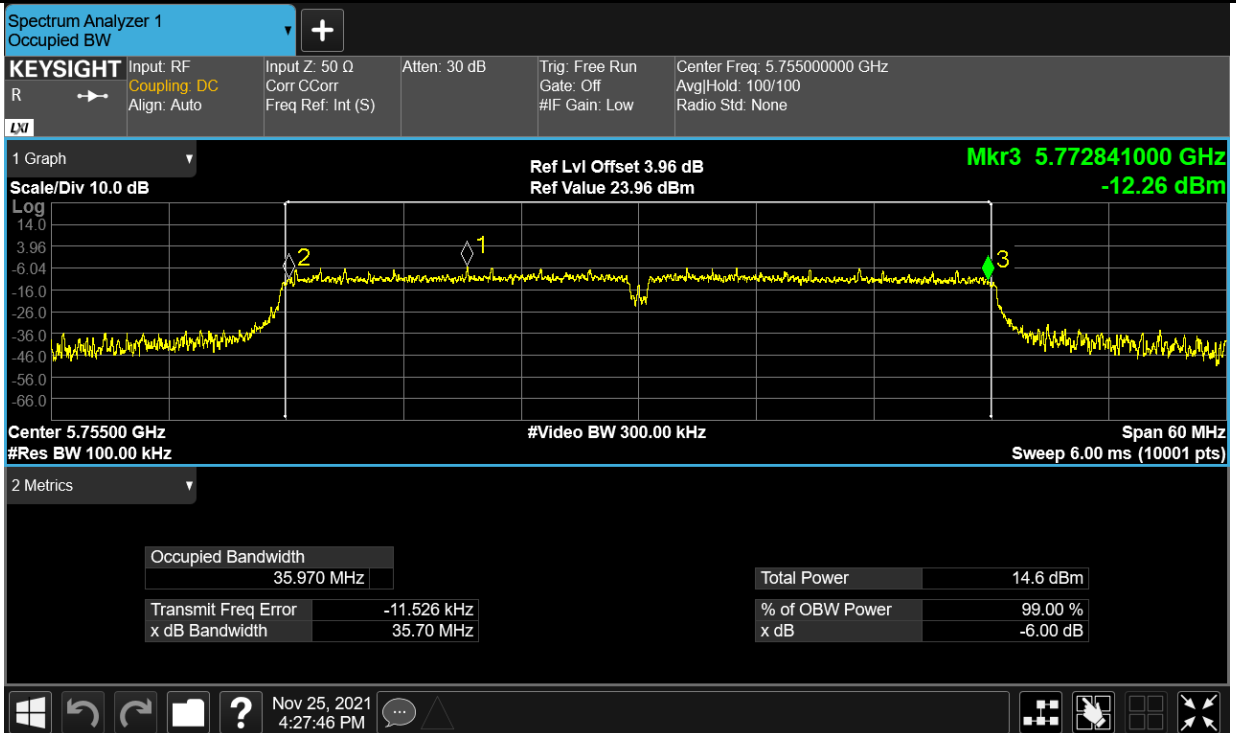
-6dB Bandwidth NVNT ac20 5785MHz Ant1



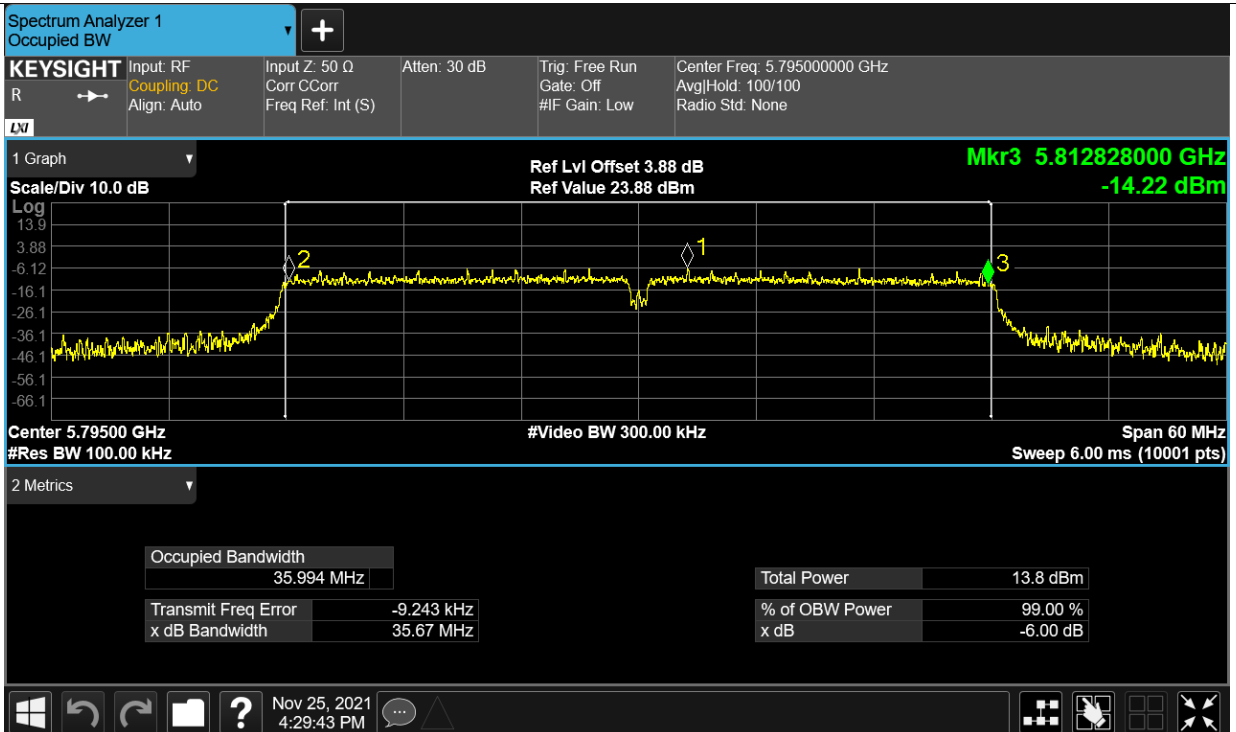
-6dB Bandwidth NVNT ac20 5825MHz Ant1



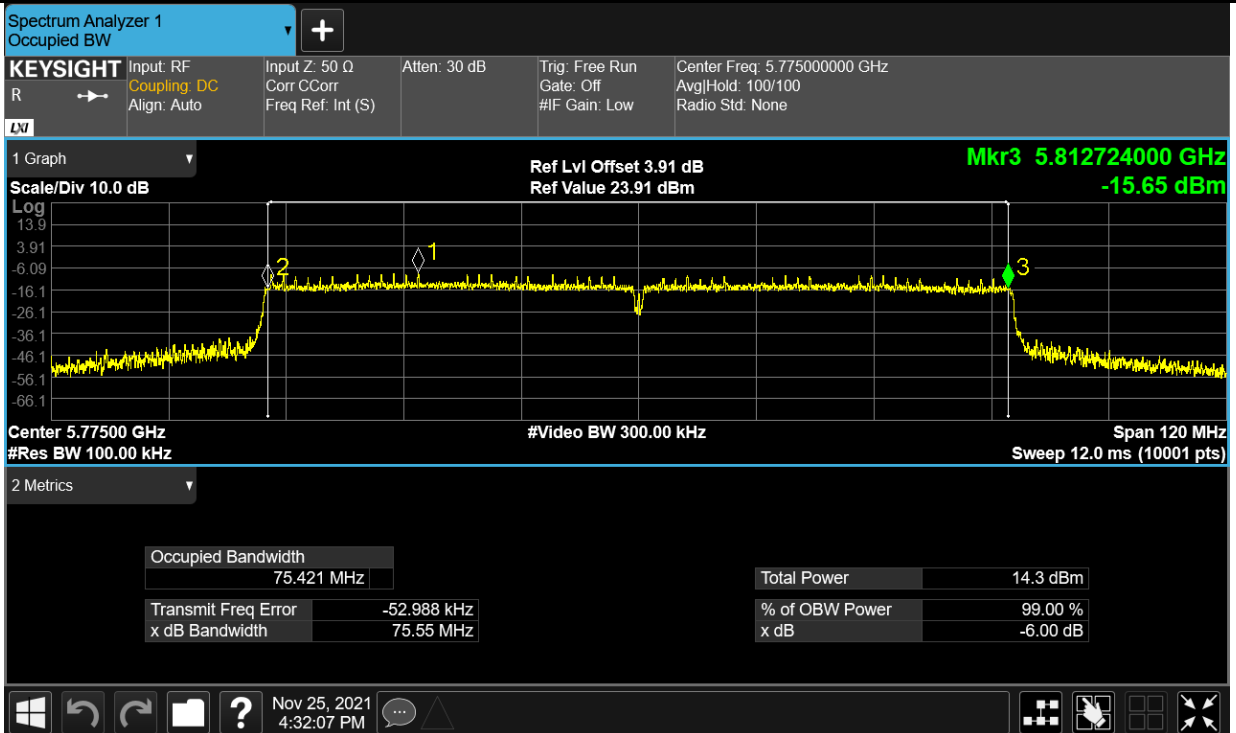
-6dB Bandwidth NVNT ac40 5755MHz Ant1



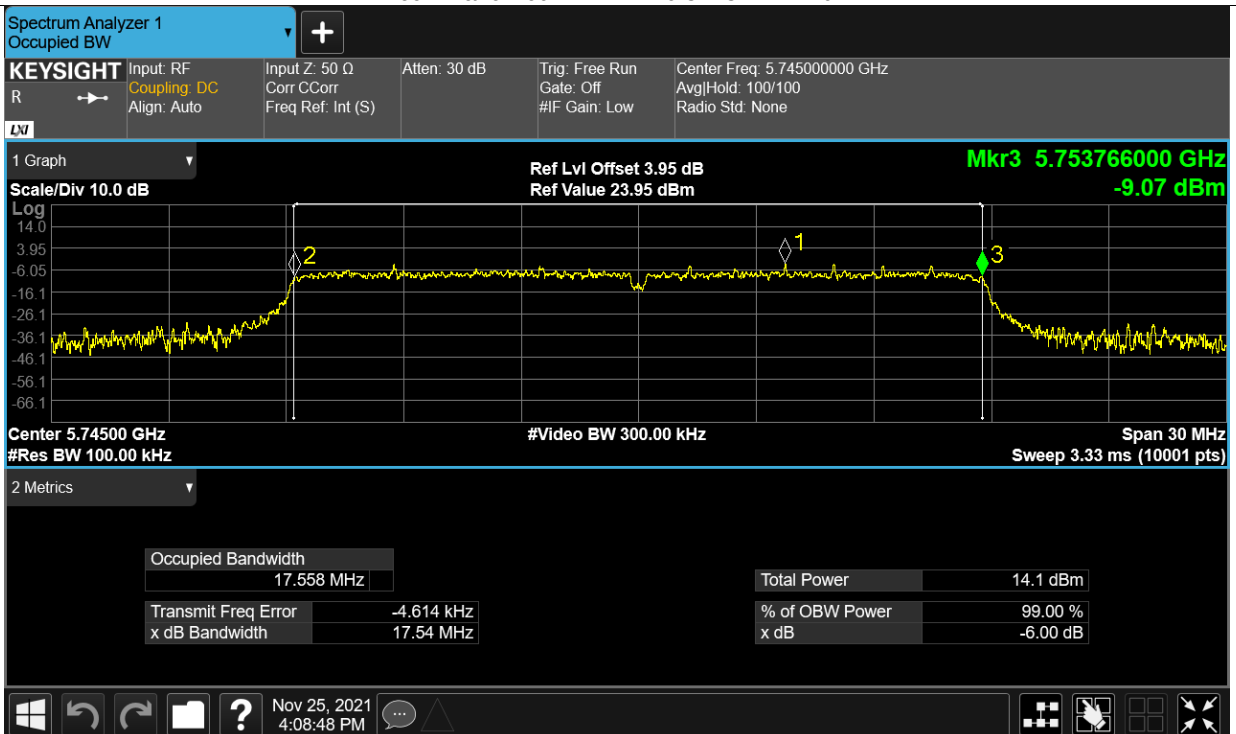
-6dB Bandwidth NVNT ac40 5795MHz Ant1



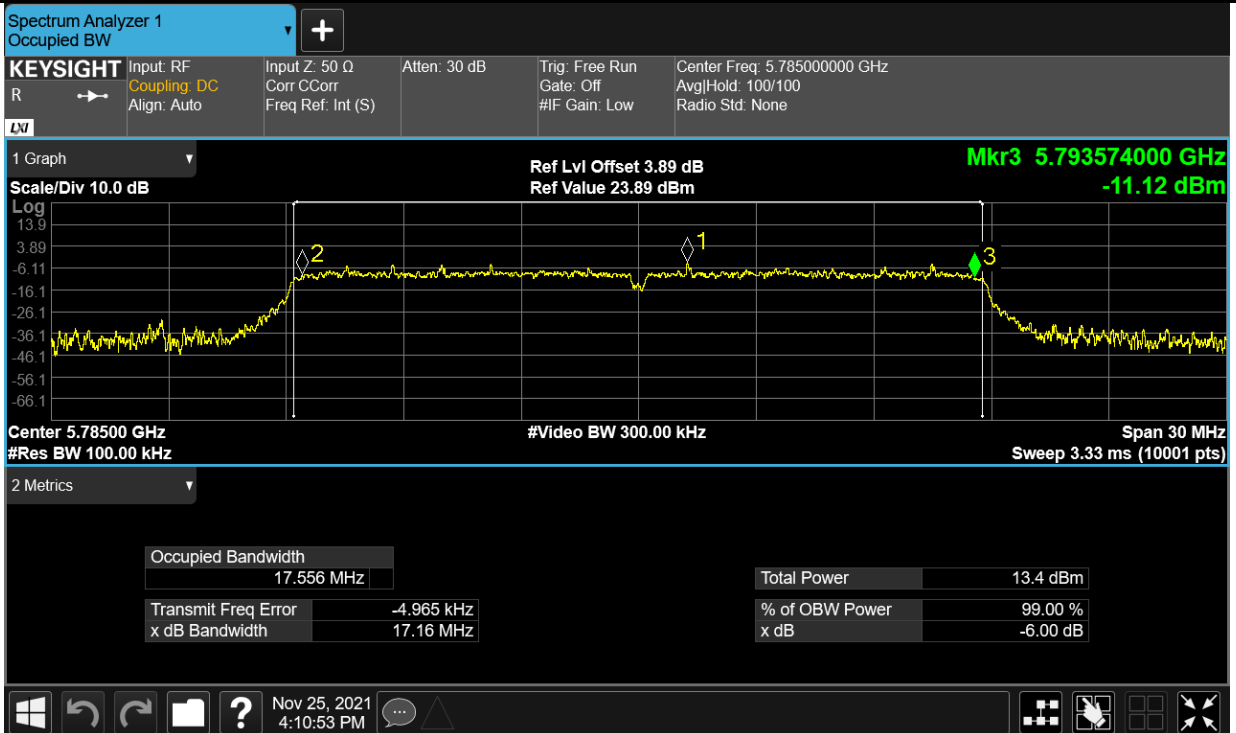
-6dB Bandwidth NVNT ac80 5775MHz Ant1



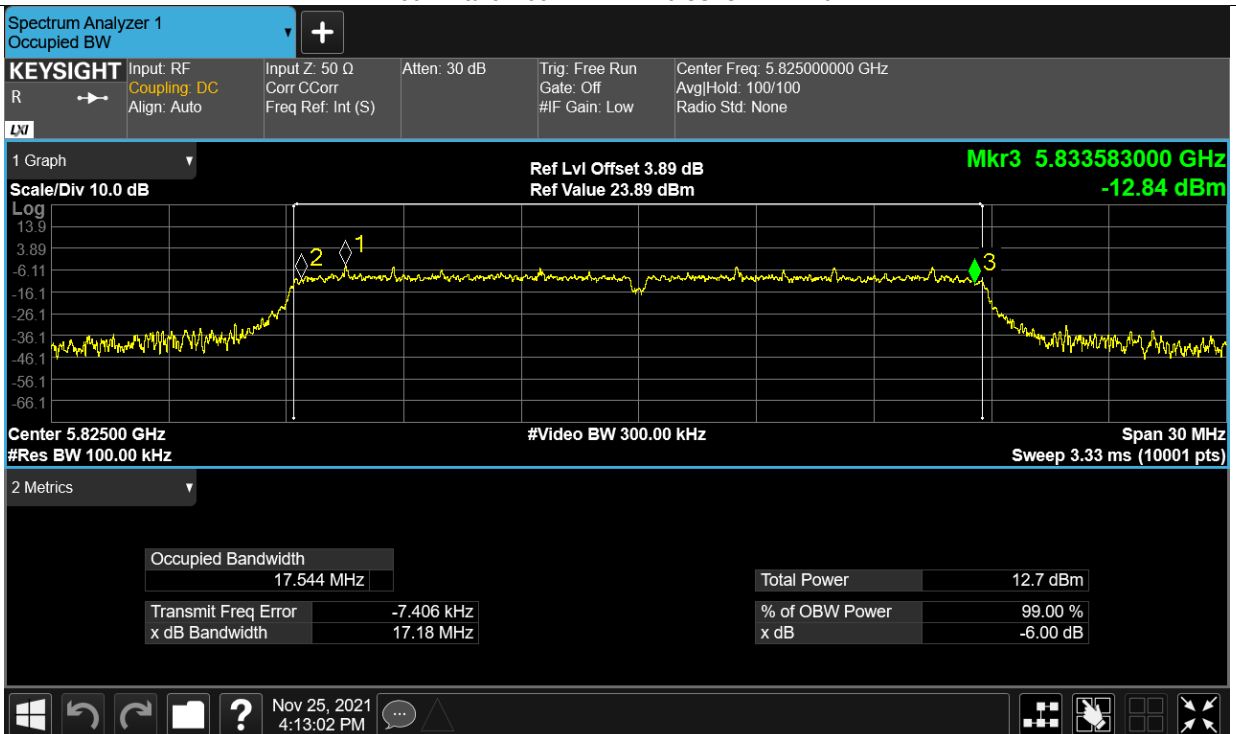
-6dB Bandwidth NVNT n20 5745MHz Ant1



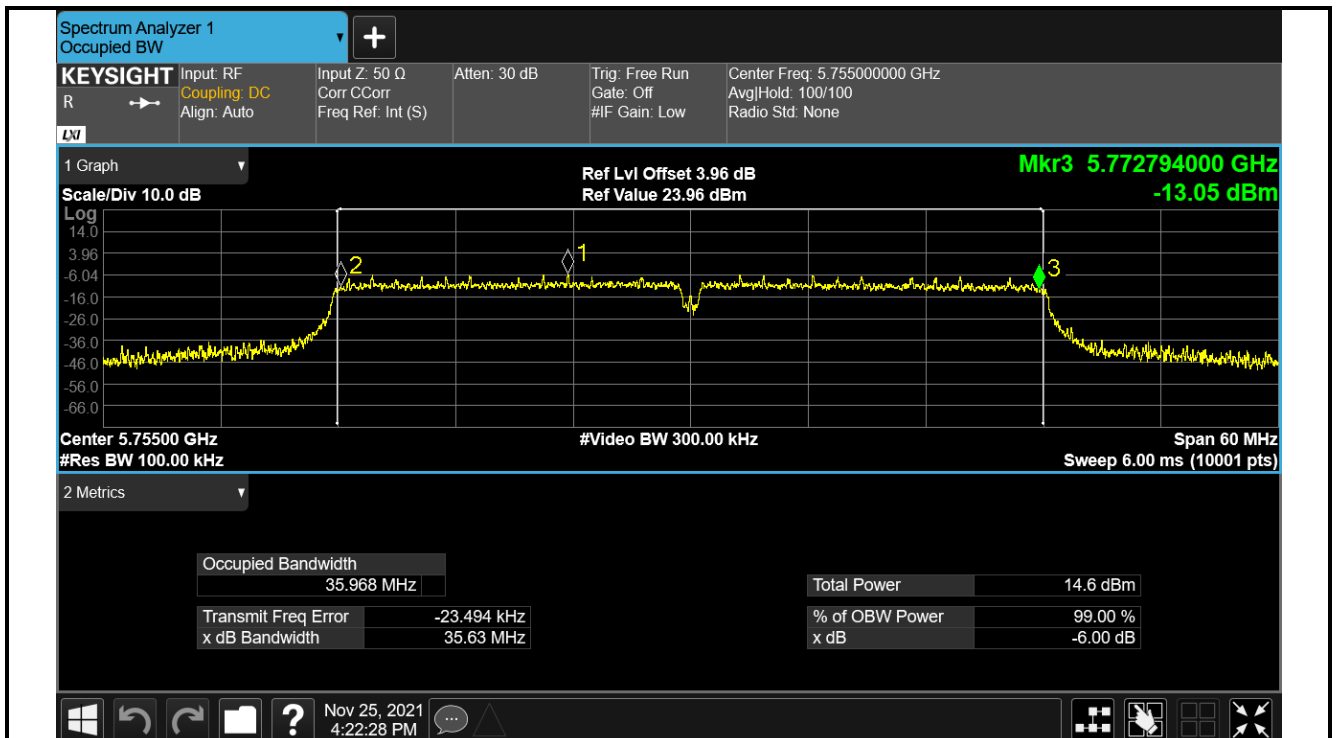
-6dB Bandwidth NVNT n20 5785MHz Ant1



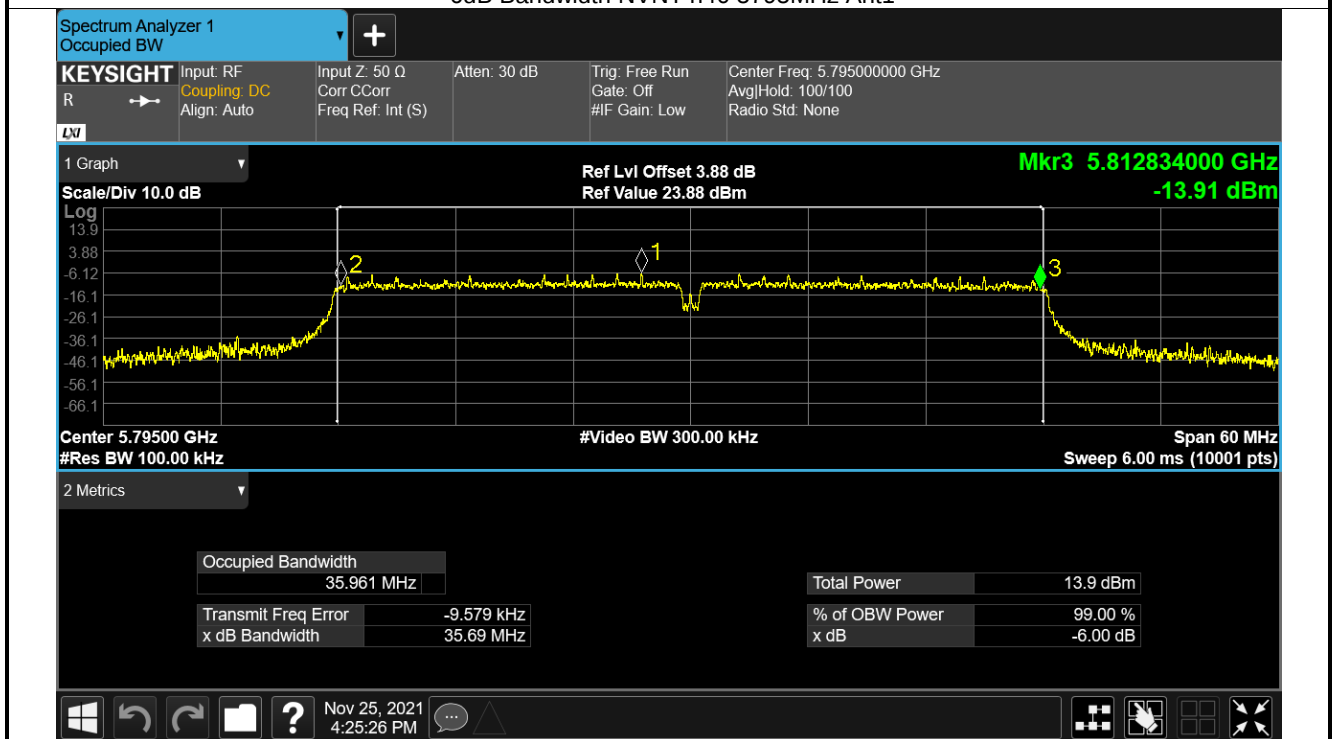
-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1

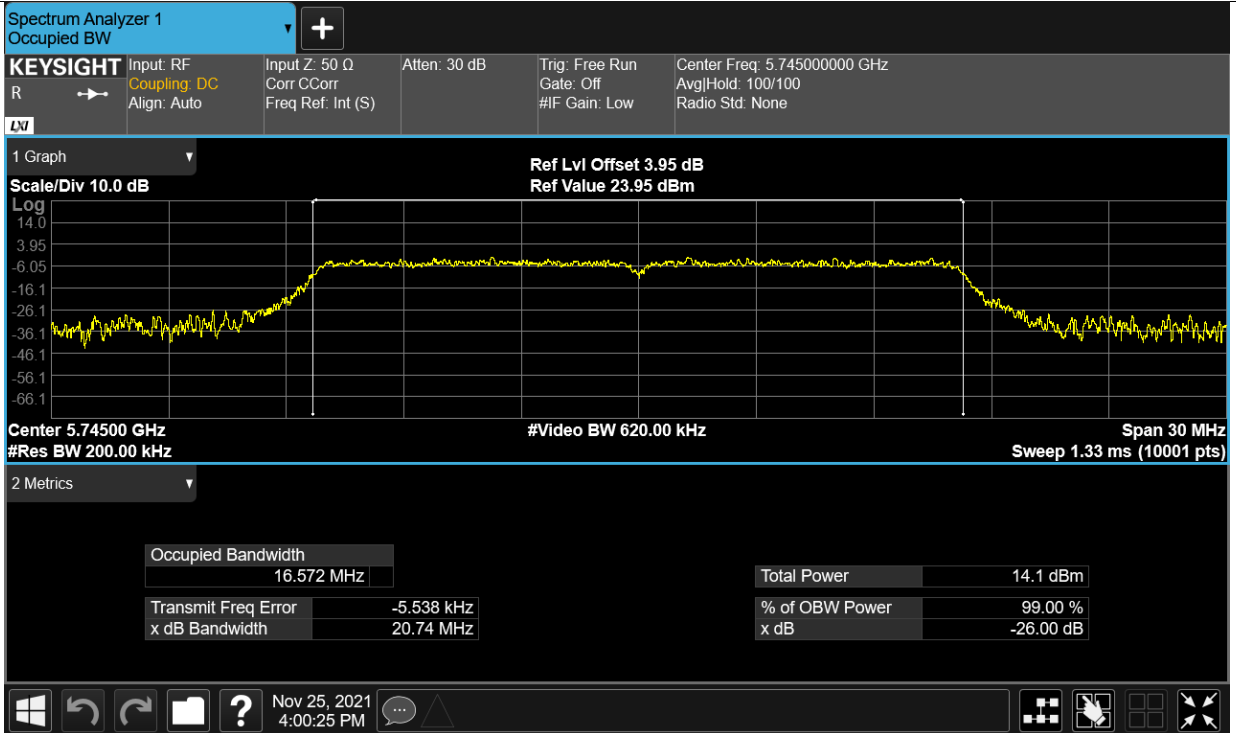


B.5 Occupied Channel Bandwidth

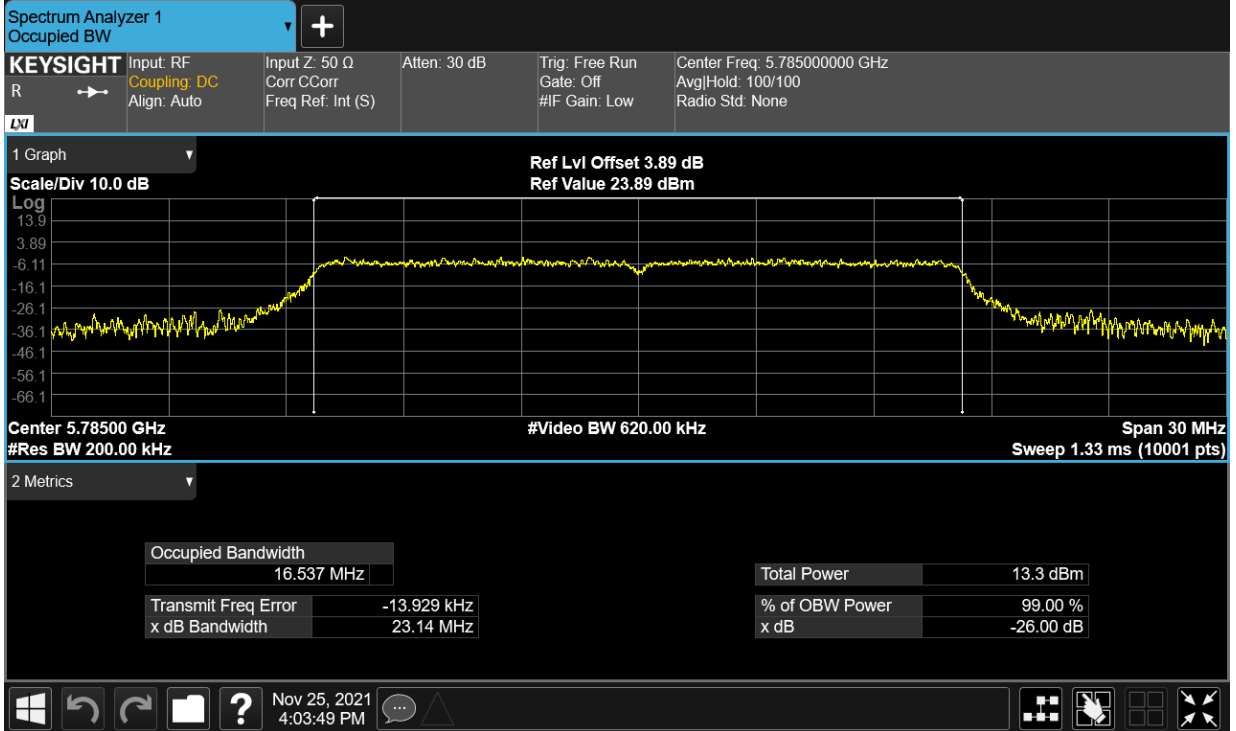
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.57167208
NVNT	a	5785	Ant1	16.53738611
NVNT	a	5825	Ant1	16.54947009
NVNT	ac20	5745	Ant1	17.55986326
NVNT	ac20	5785	Ant1	17.56858922
NVNT	ac20	5825	Ant1	17.59536325
NVNT	ac40	5755	Ant1	36.10079096
NVNT	ac40	5795	Ant1	36.1363726
NVNT	ac80	5775	Ant1	75.50652793
NVNT	n20	5745	Ant1	17.57907112
NVNT	n20	5785	Ant1	17.58195174
NVNT	n20	5825	Ant1	17.59441493
NVNT	n40	5755	Ant1	36.07063994
NVNT	n40	5795	Ant1	36.08863603

Test Graphs

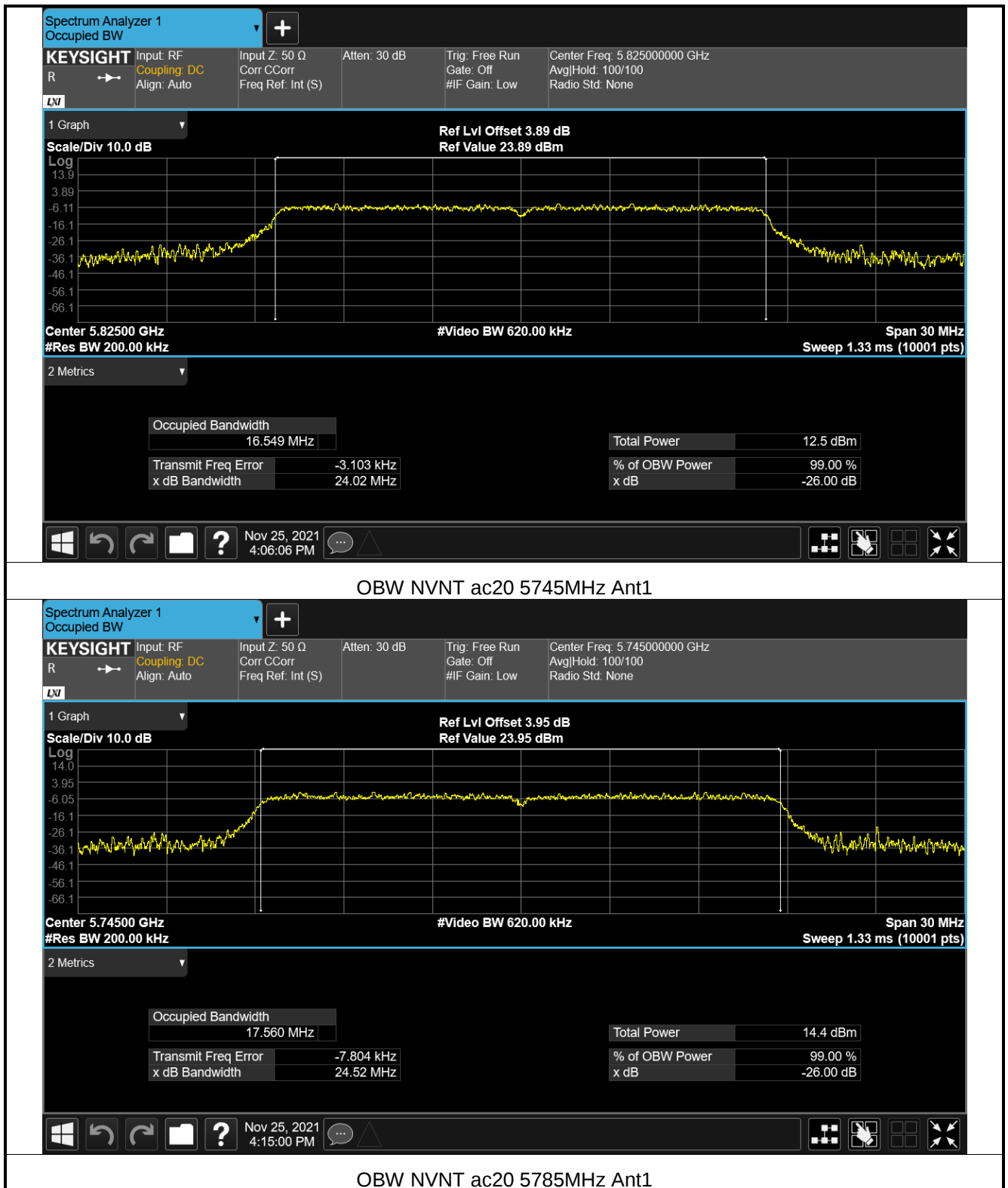
OBW NVNT a 5745MHz Ant1

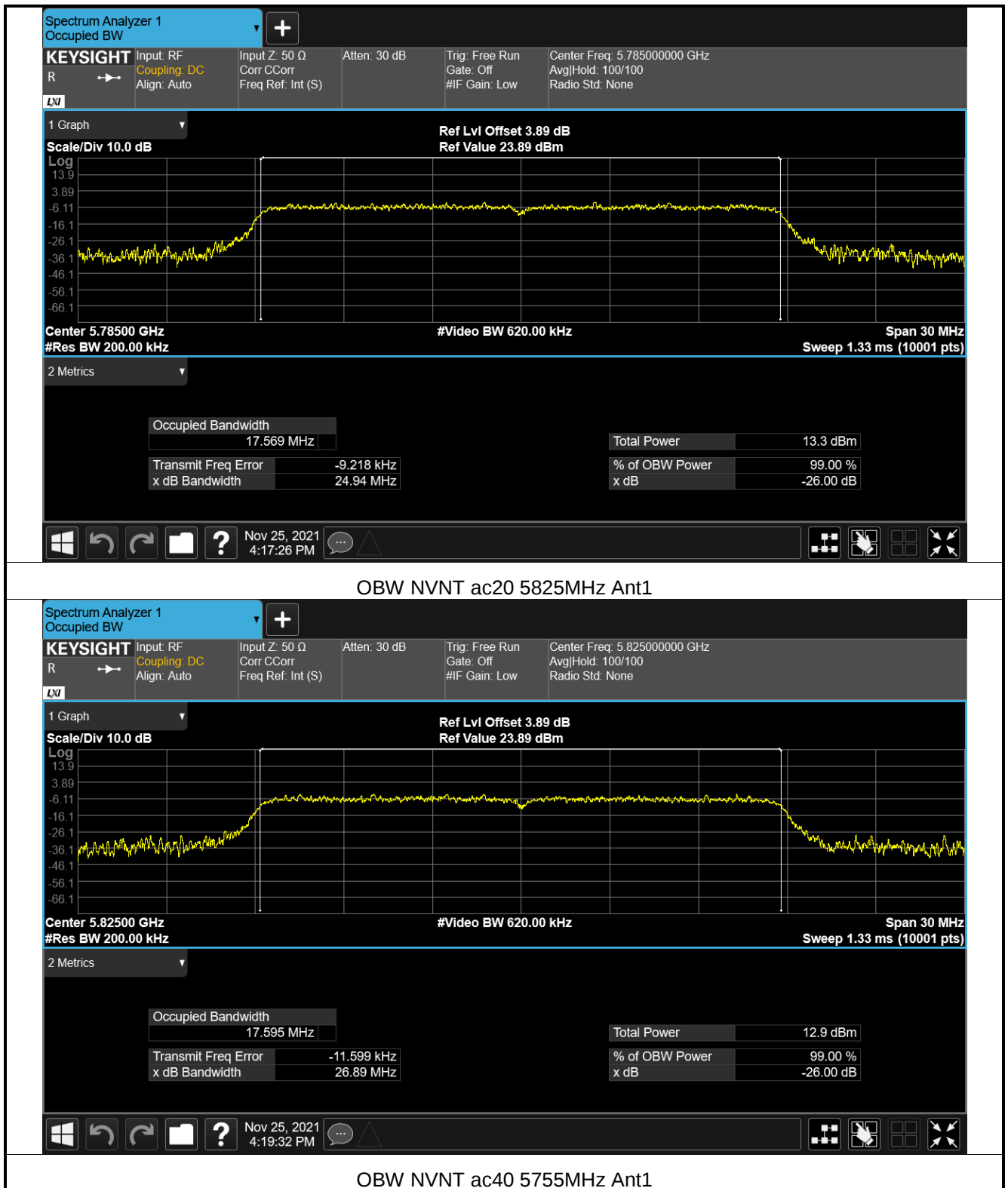


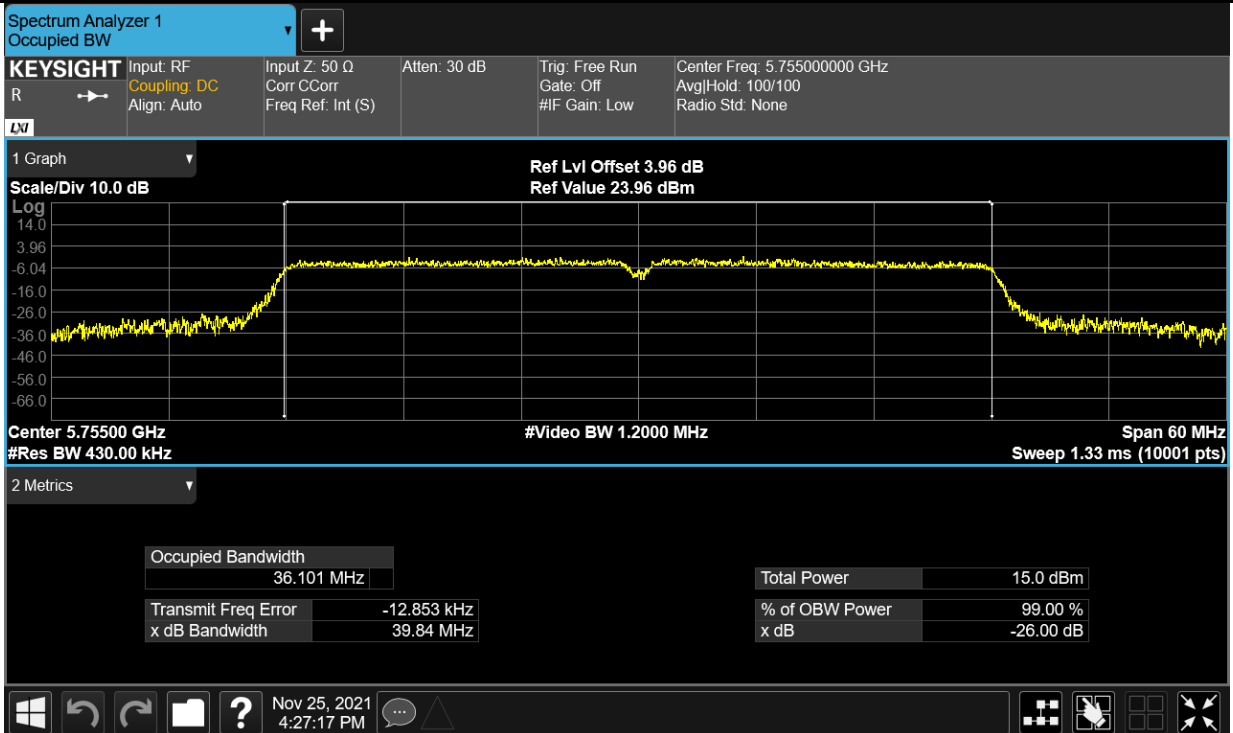
OBW NVNT a 5785MHz Ant1



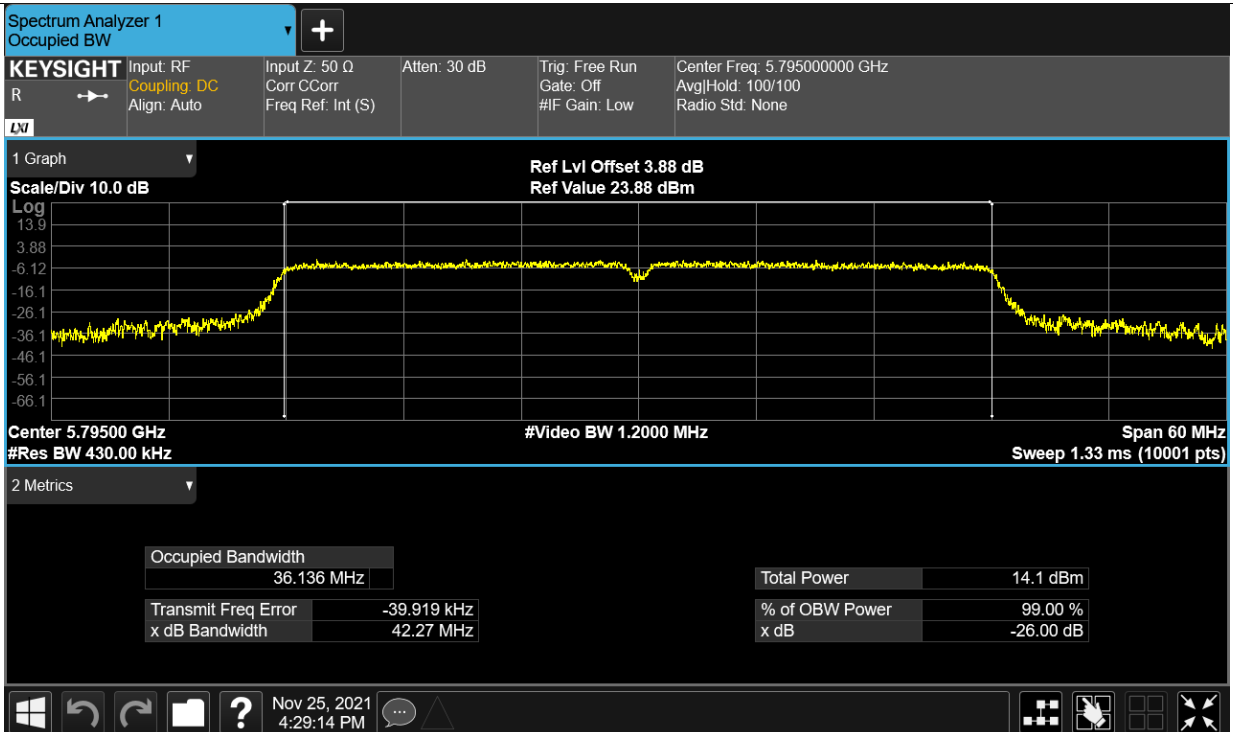
OBW NVNT a 5825MHz Ant1



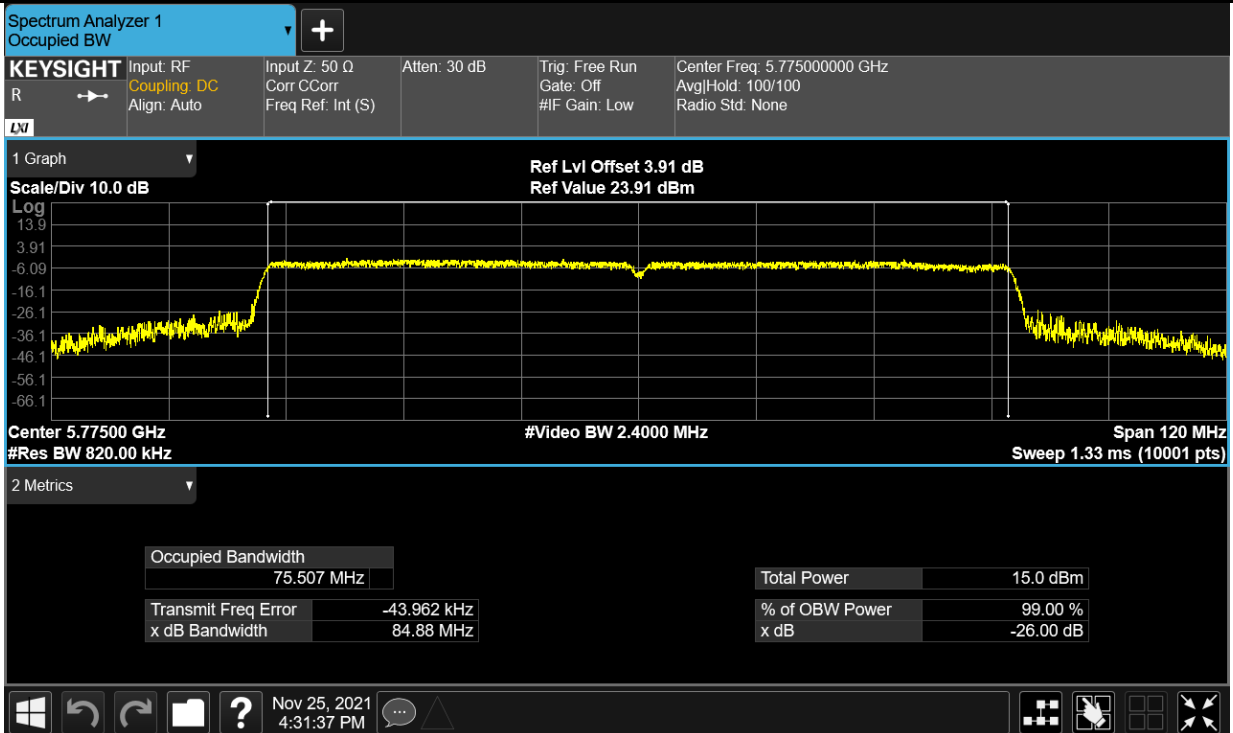




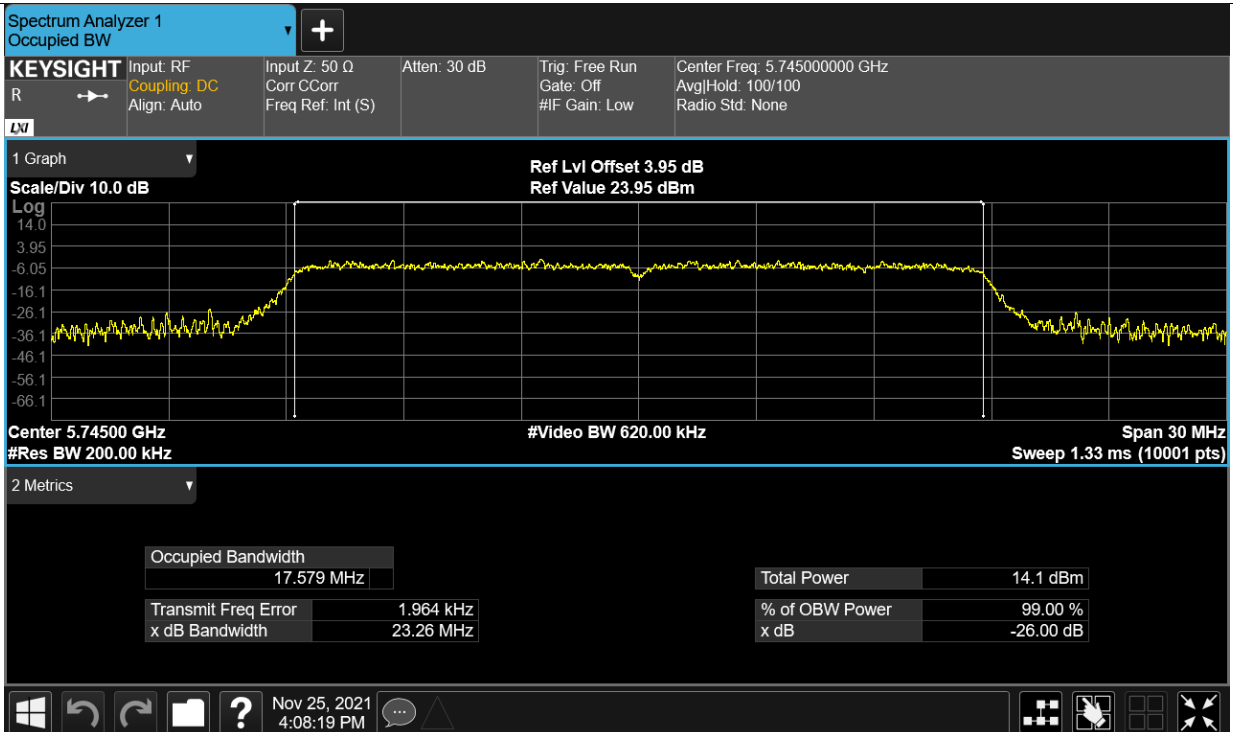
OBW NVNT ac40 5795MHz Ant1



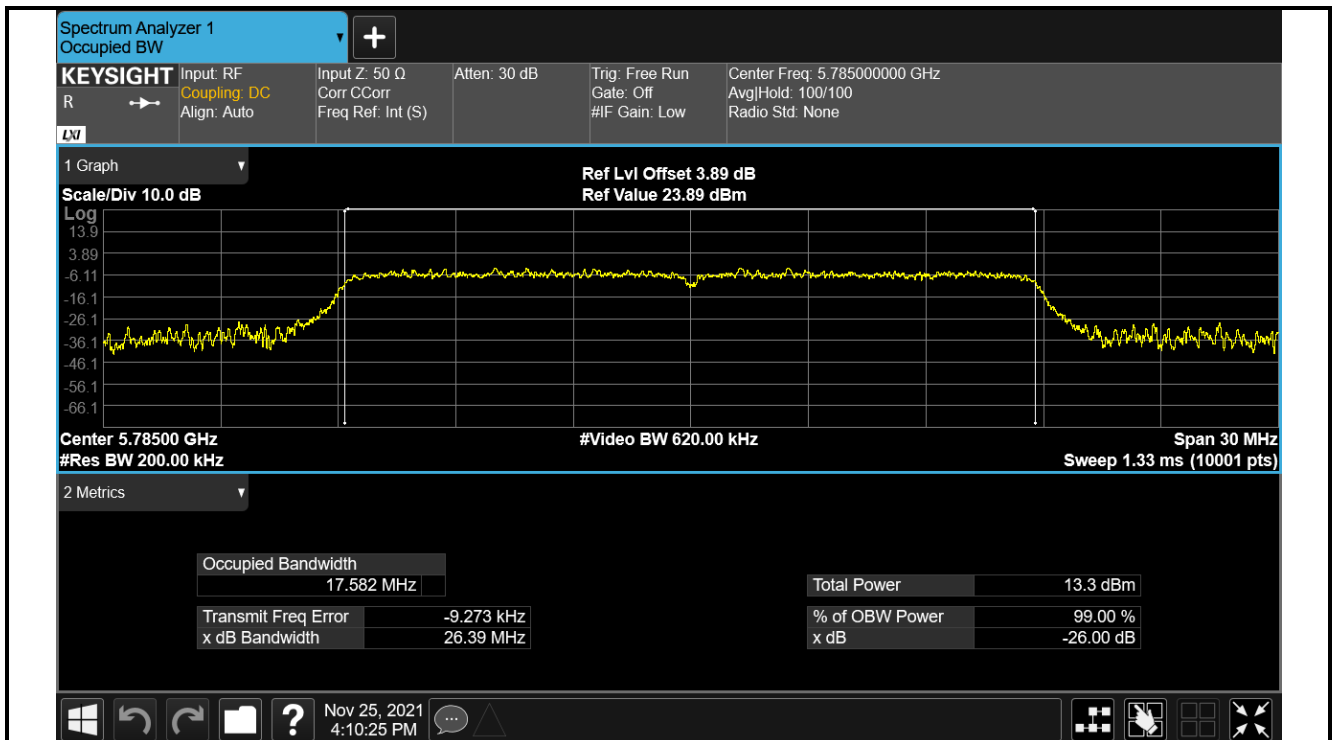
OBW NVNT ac80 5775MHz Ant1



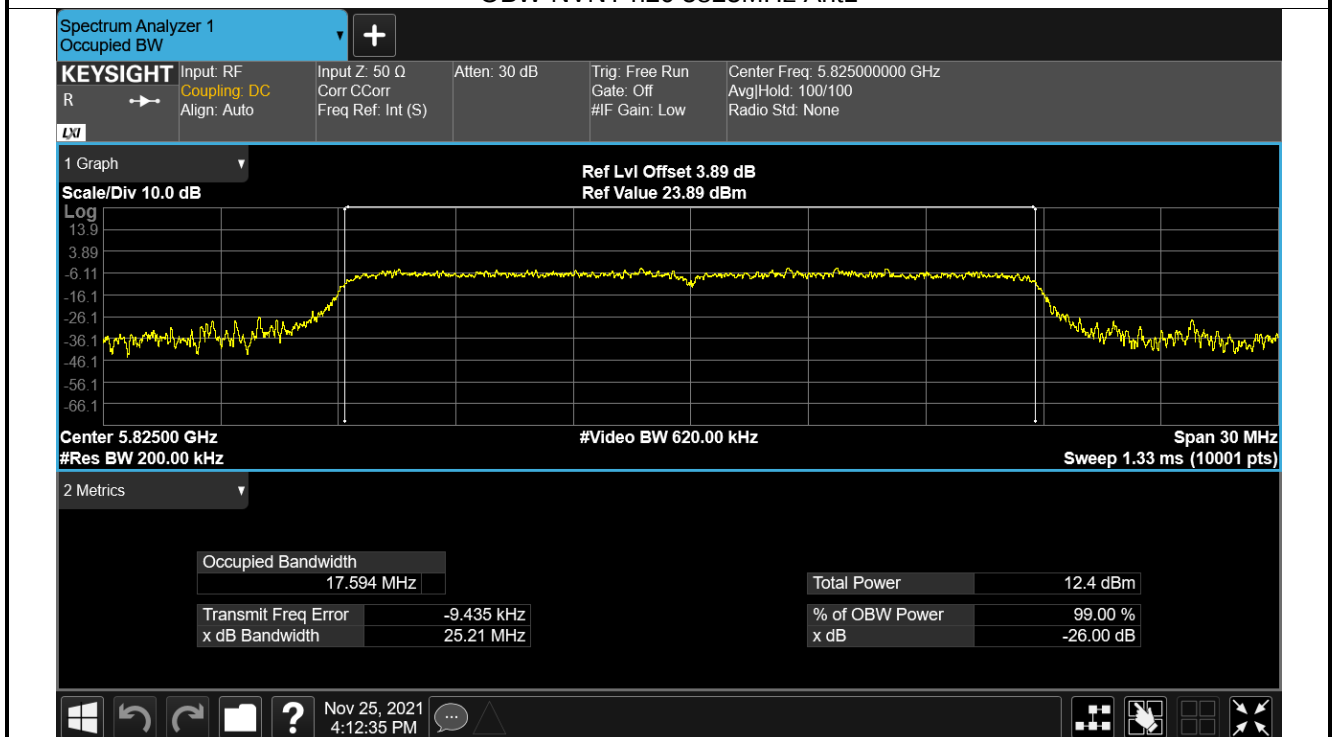
OBW NVNT n20 5745MHz Ant1



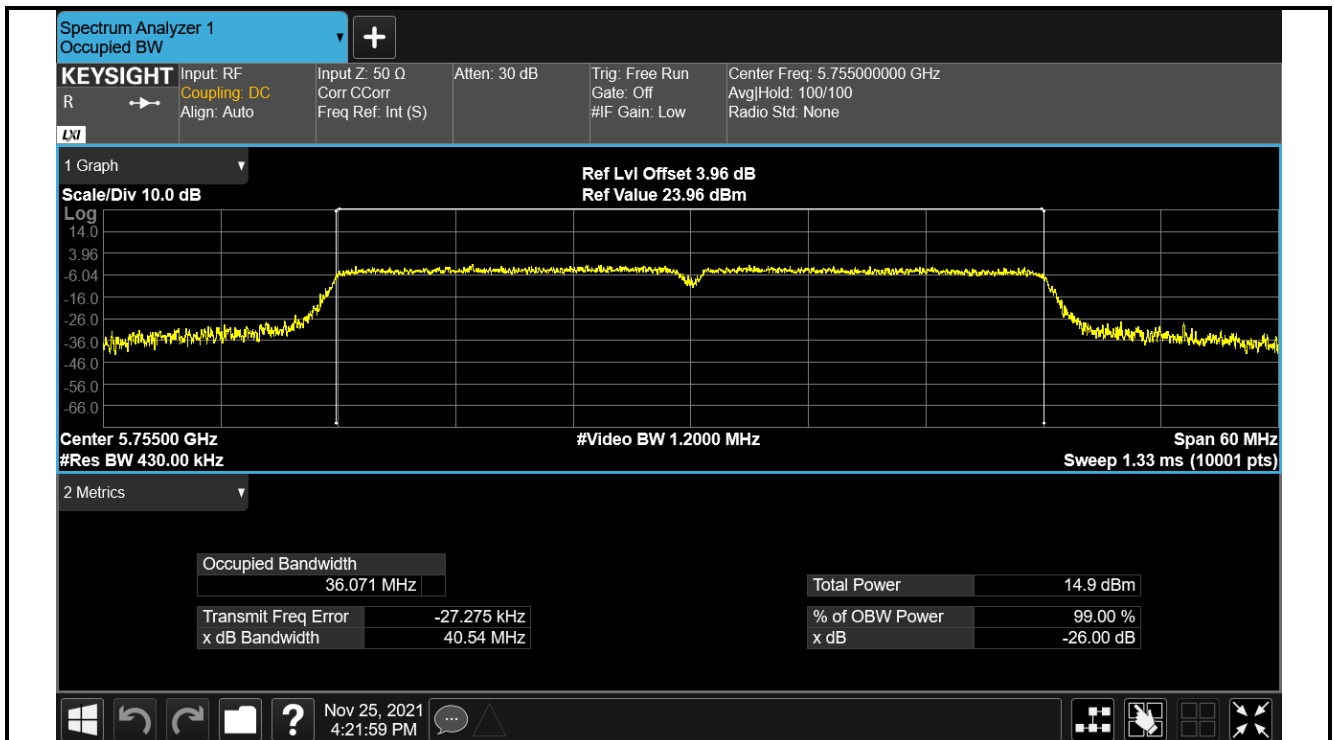
OBW NVNT n20 5785MHz Ant1



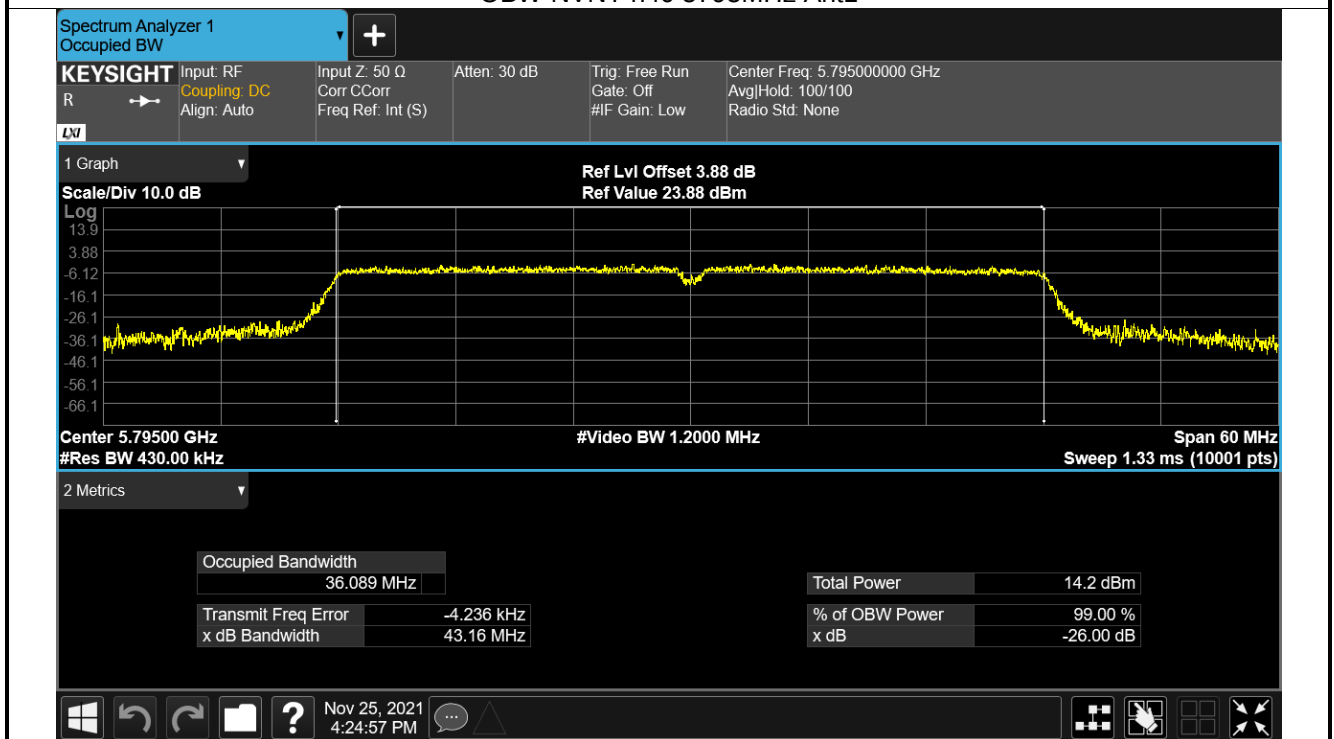
OBW NVNT n20 5825MHz Ant1



OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1

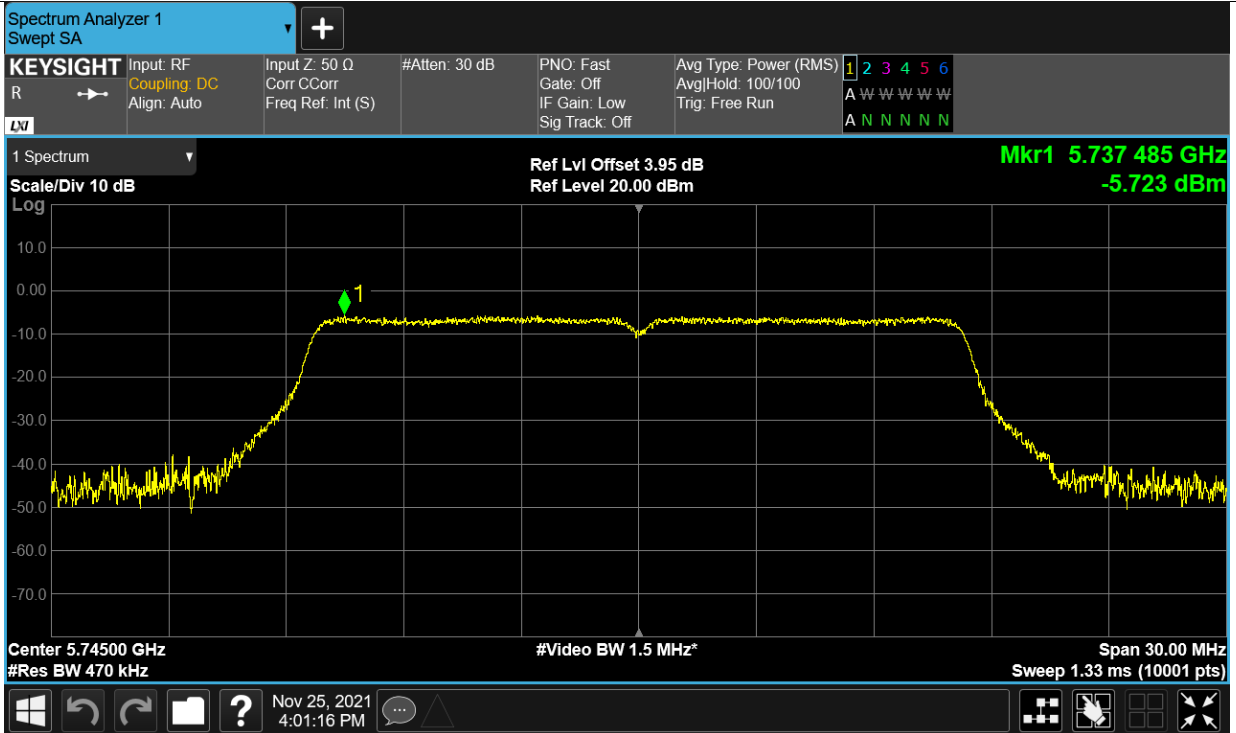


Maximum Power Spectral Density Level

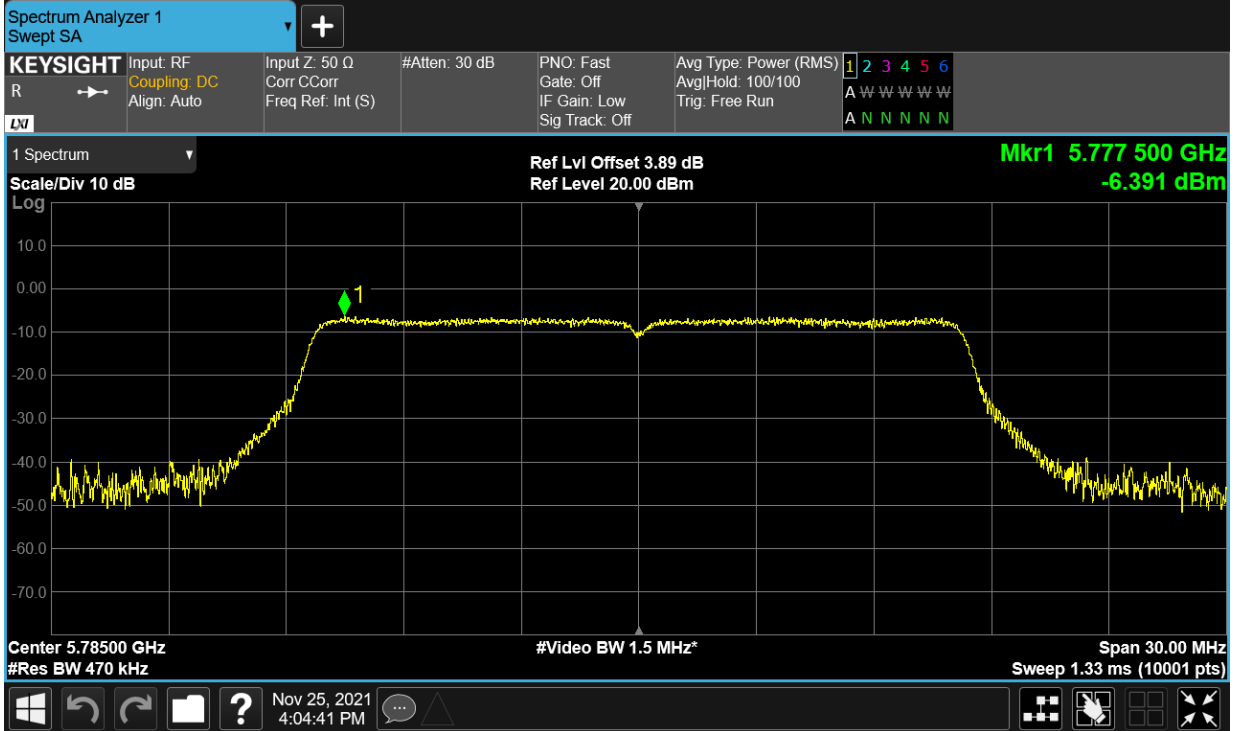
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-5.723	30	Pass
NVNT	a	5785	Ant1	-6.391	30	Pass
NVNT	a	5825	Ant1	-7.19	30	Pass
NVNT	ac20	5745	Ant1	-5.587	30	Pass
NVNT	ac20	5785	Ant1	-5.768	30	Pass
NVNT	ac20	5825	Ant1	-6.866	30	Pass
NVNT	ac40	5755	Ant1	-8.267	30	Pass
NVNT	ac40	5795	Ant1	-8.762	30	Pass
NVNT	ac80	5775	Ant1	-11.845	30	Pass
NVNT	n20	5745	Ant1	-5.814	30	Pass
NVNT	n20	5785	Ant1	-6.746	30	Pass
NVNT	n20	5825	Ant1	-7.506	30	Pass
NVNT	n40	5755	Ant1	-7.956	30	Pass
NVNT	n40	5795	Ant1	-9.066	30	Pass

Test Graphs

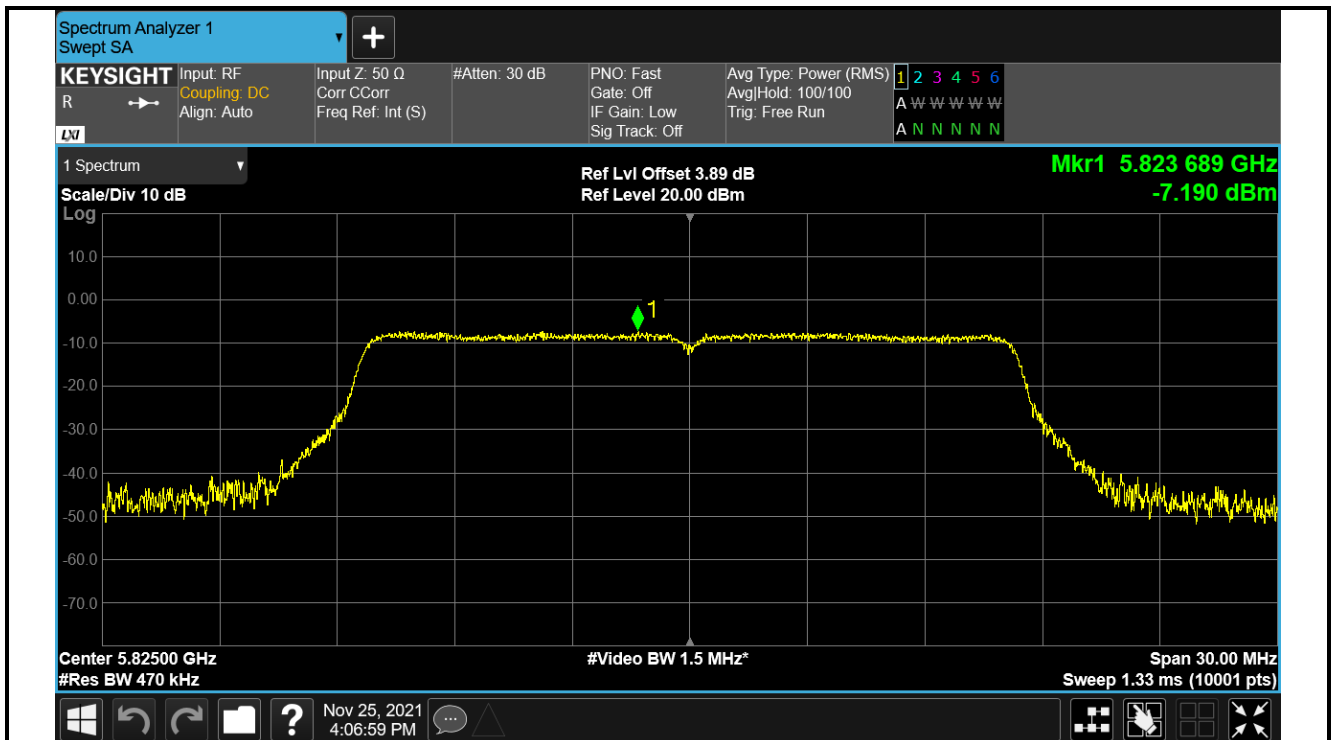
PSD NVNT a 5745MHz Ant1



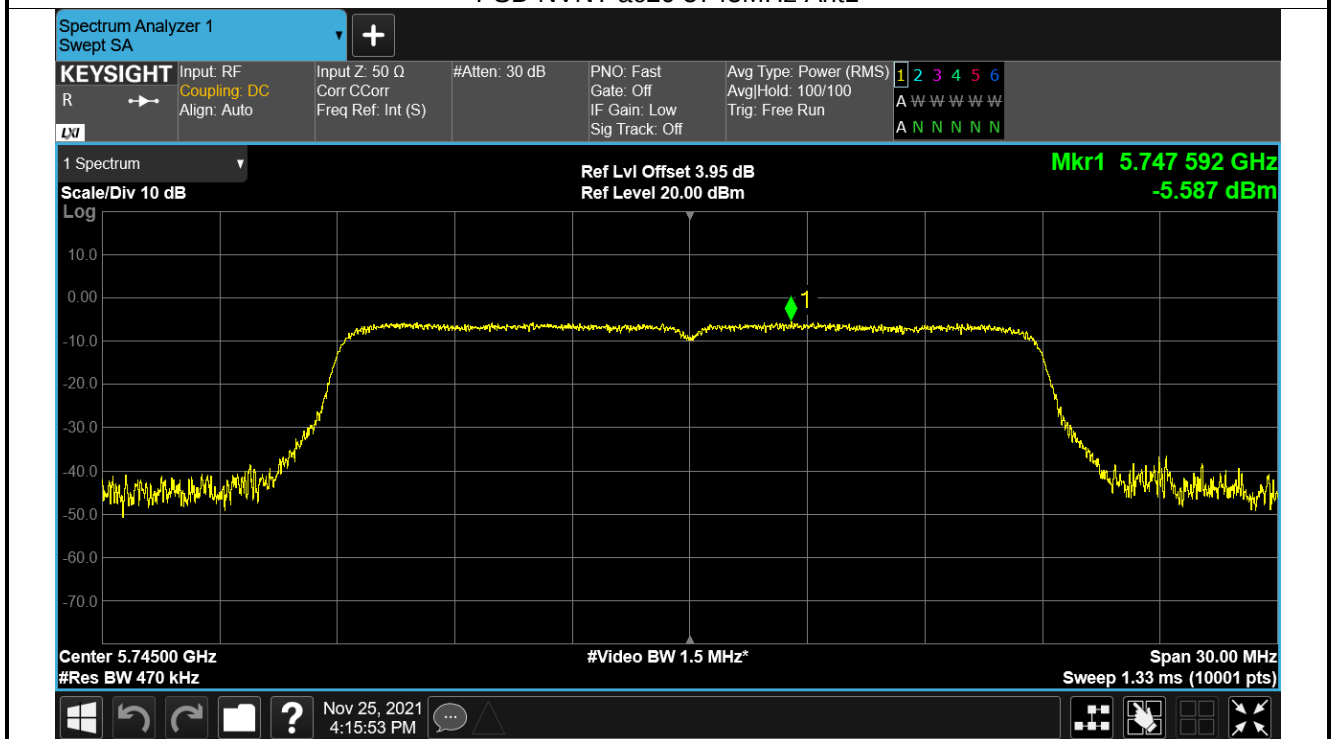
PSD NVNT a 5785MHz Ant1



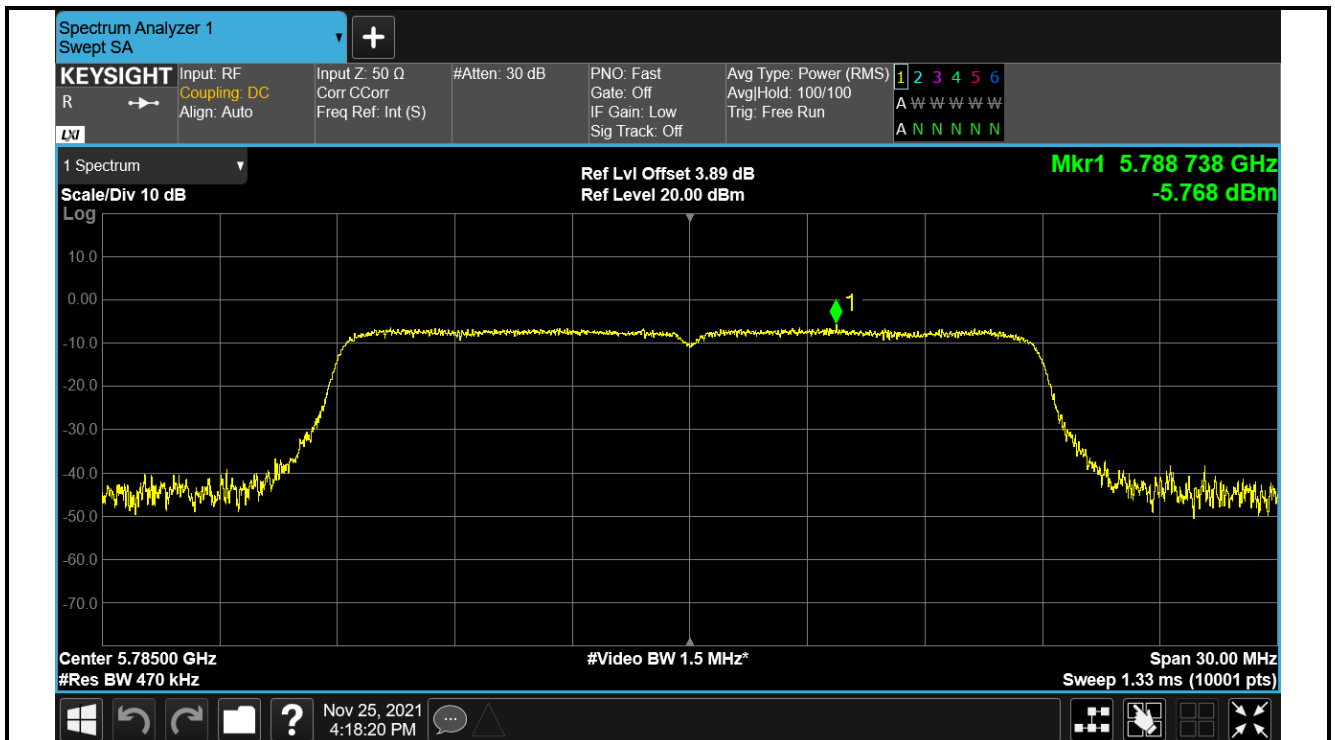
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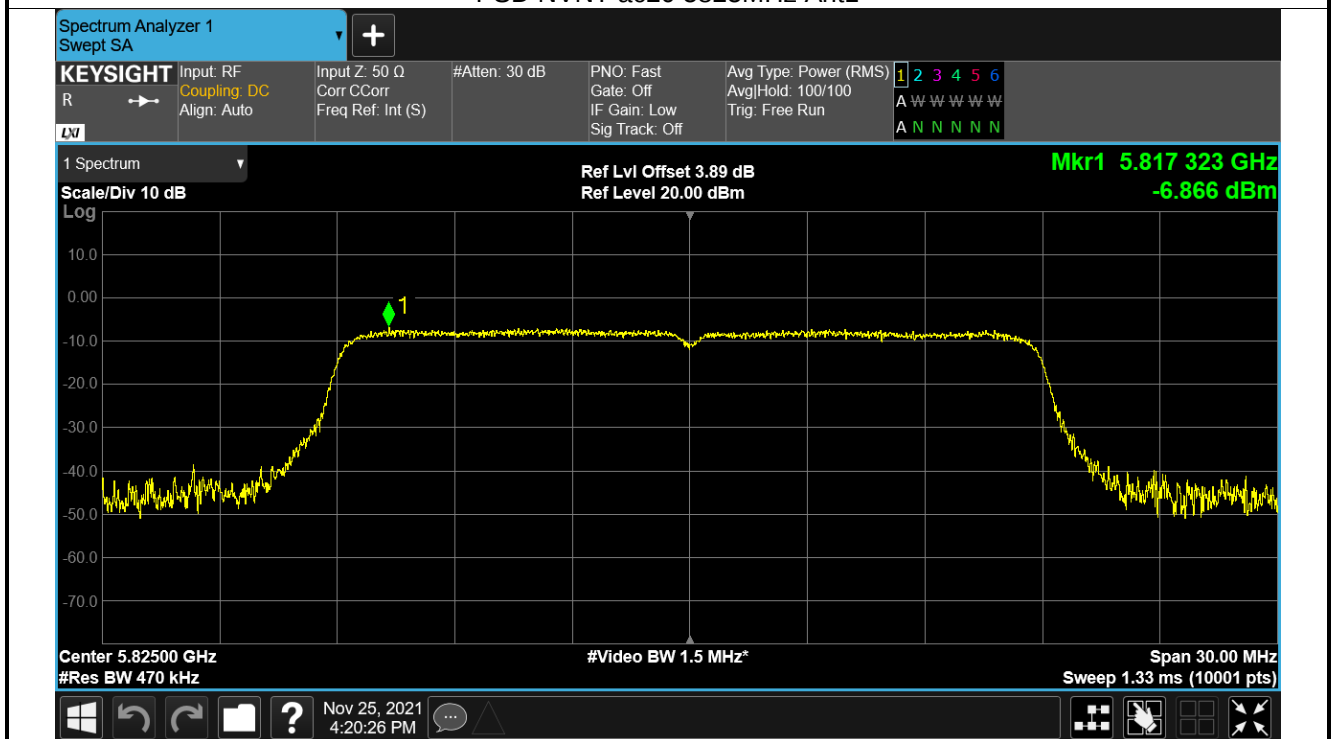
PSD NVNT ac20 5745MHz Ant1



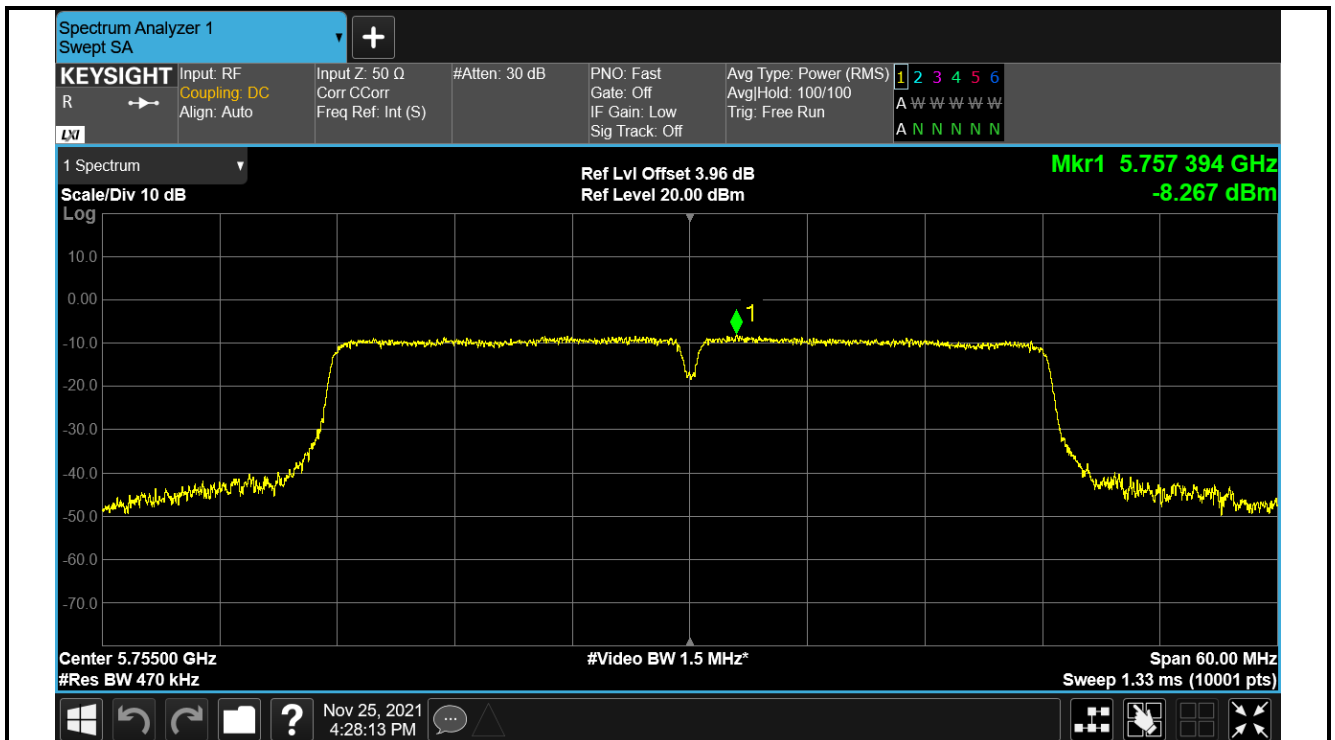
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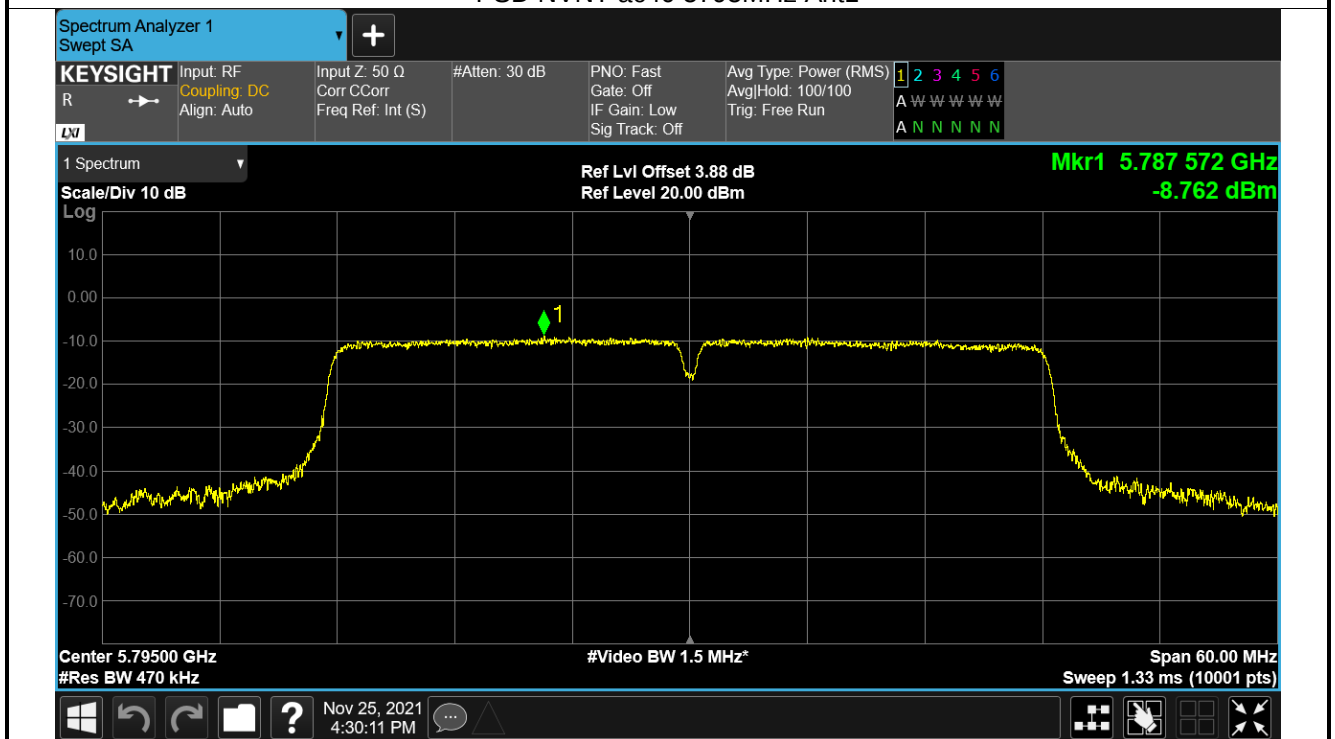
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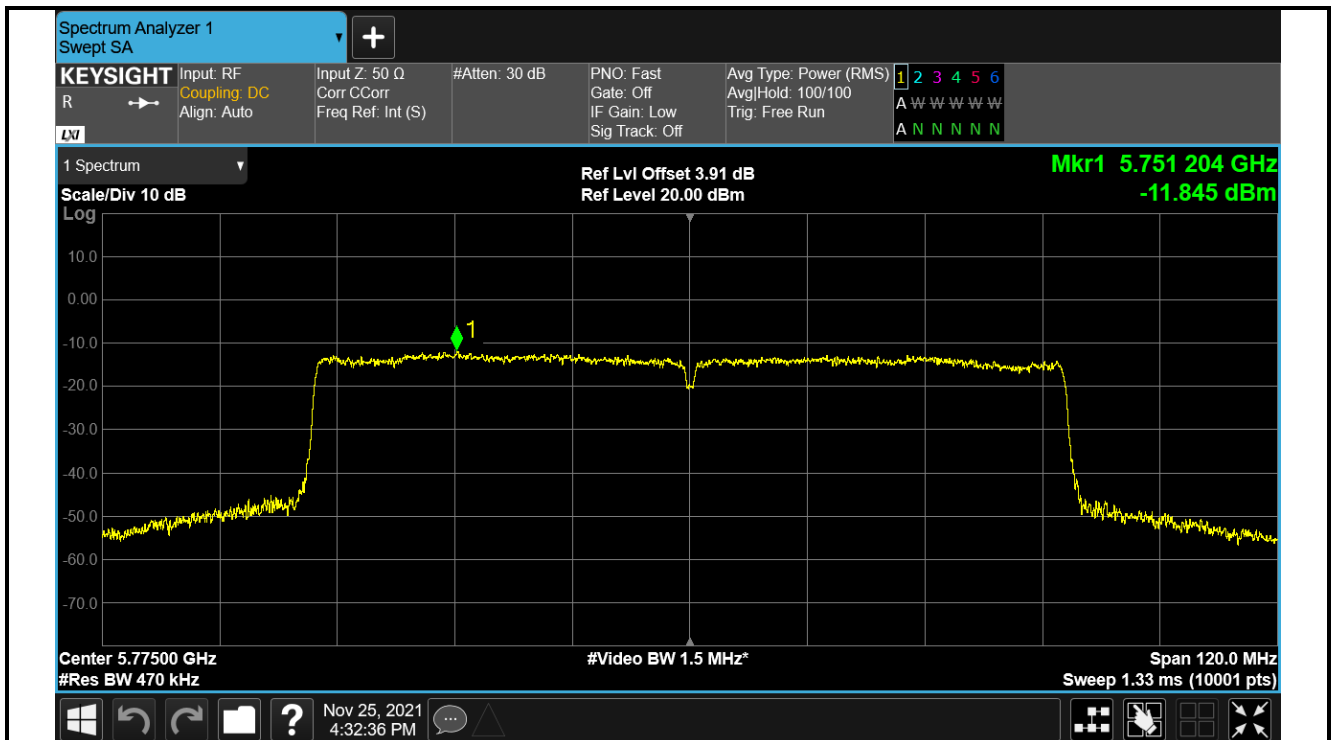
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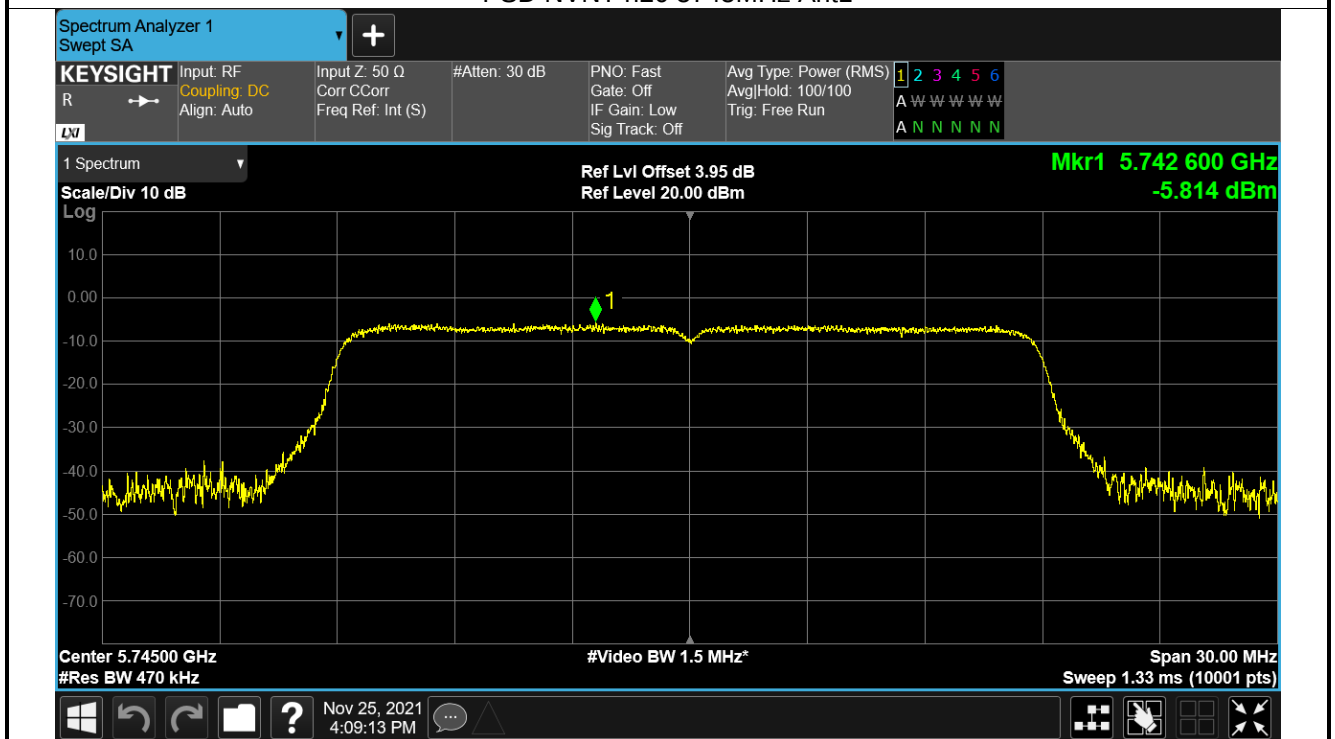
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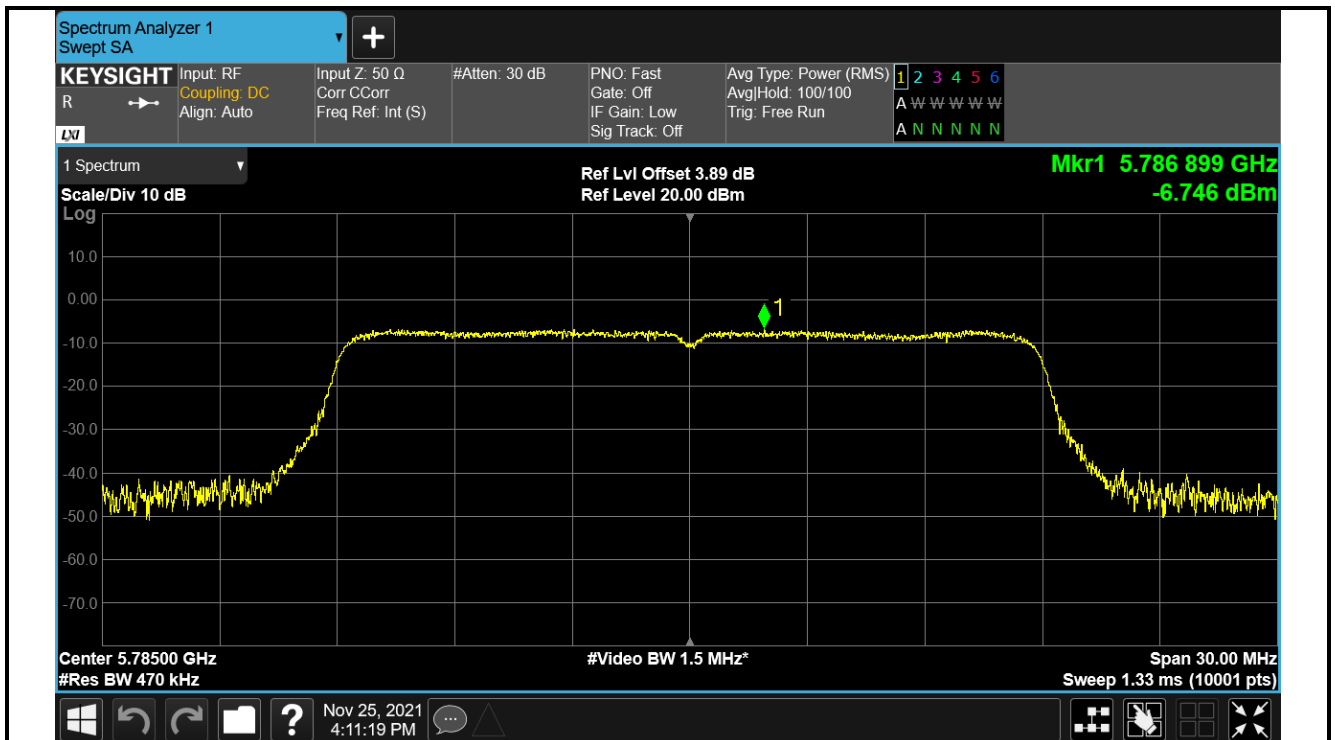
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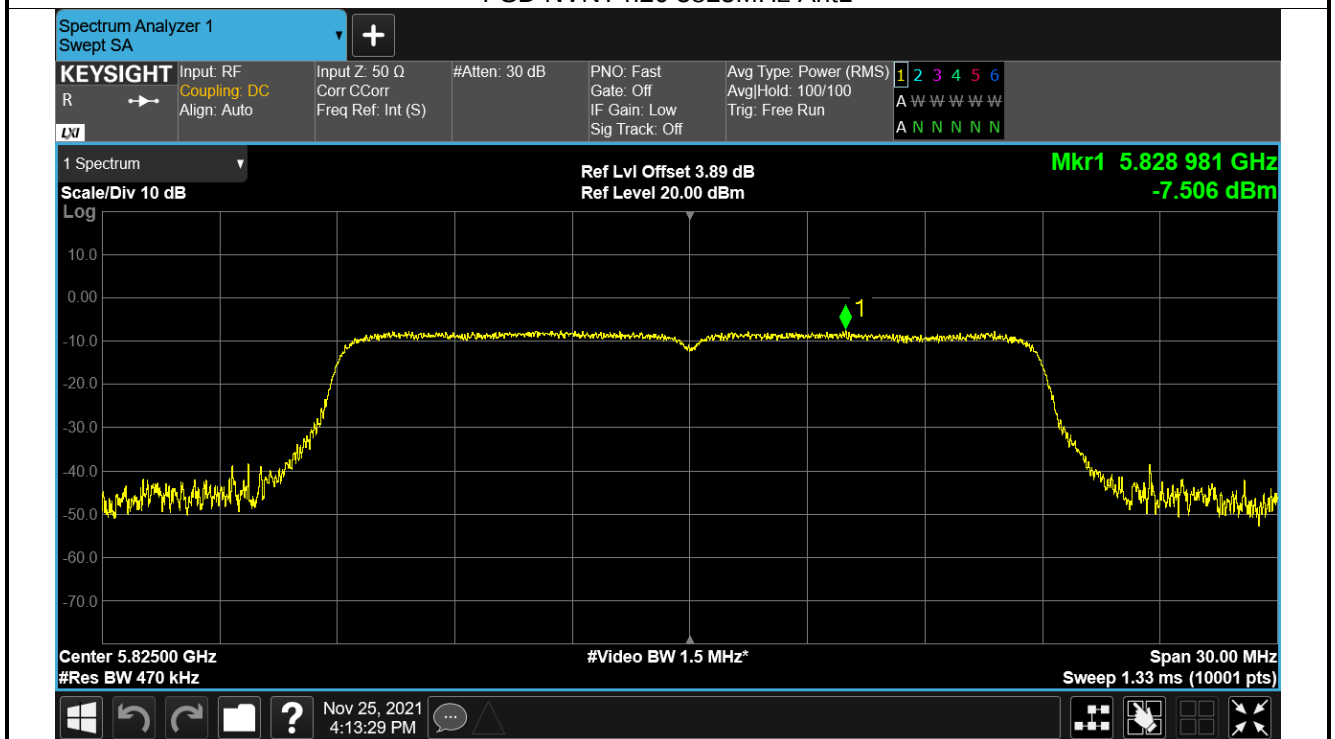
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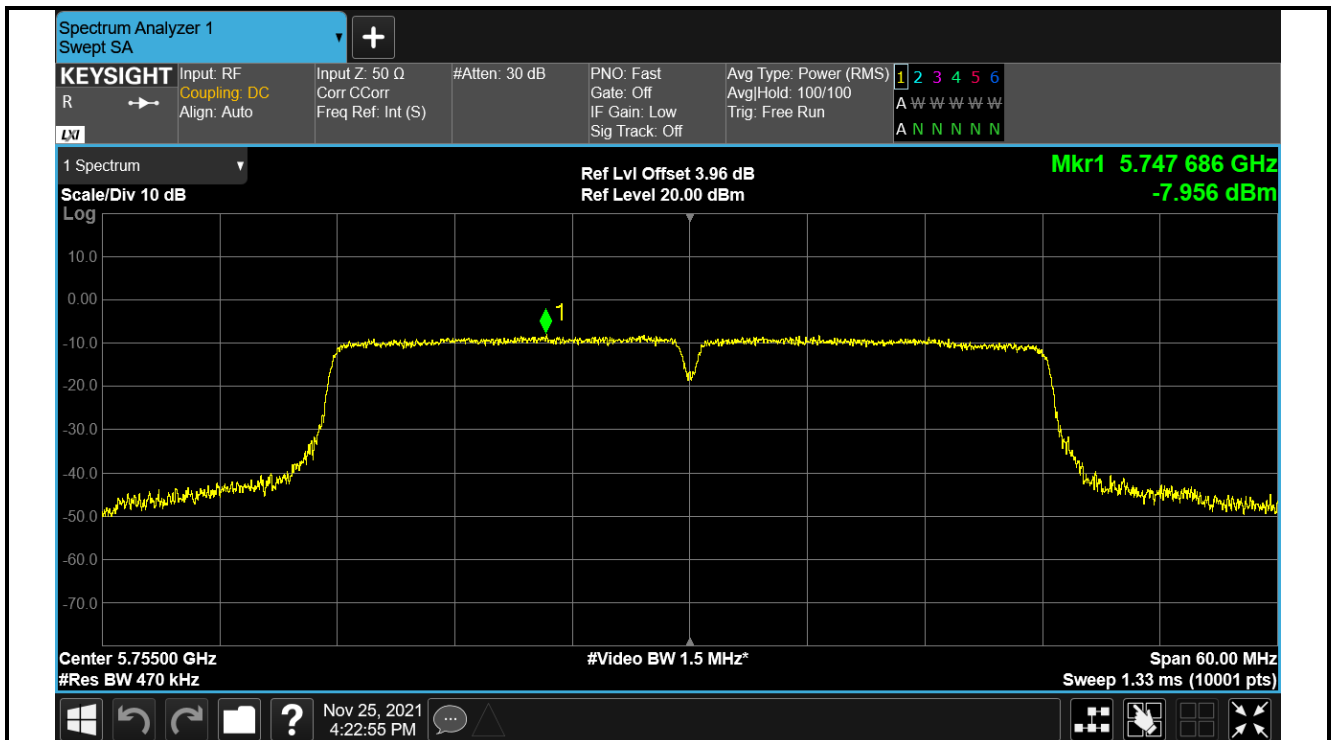
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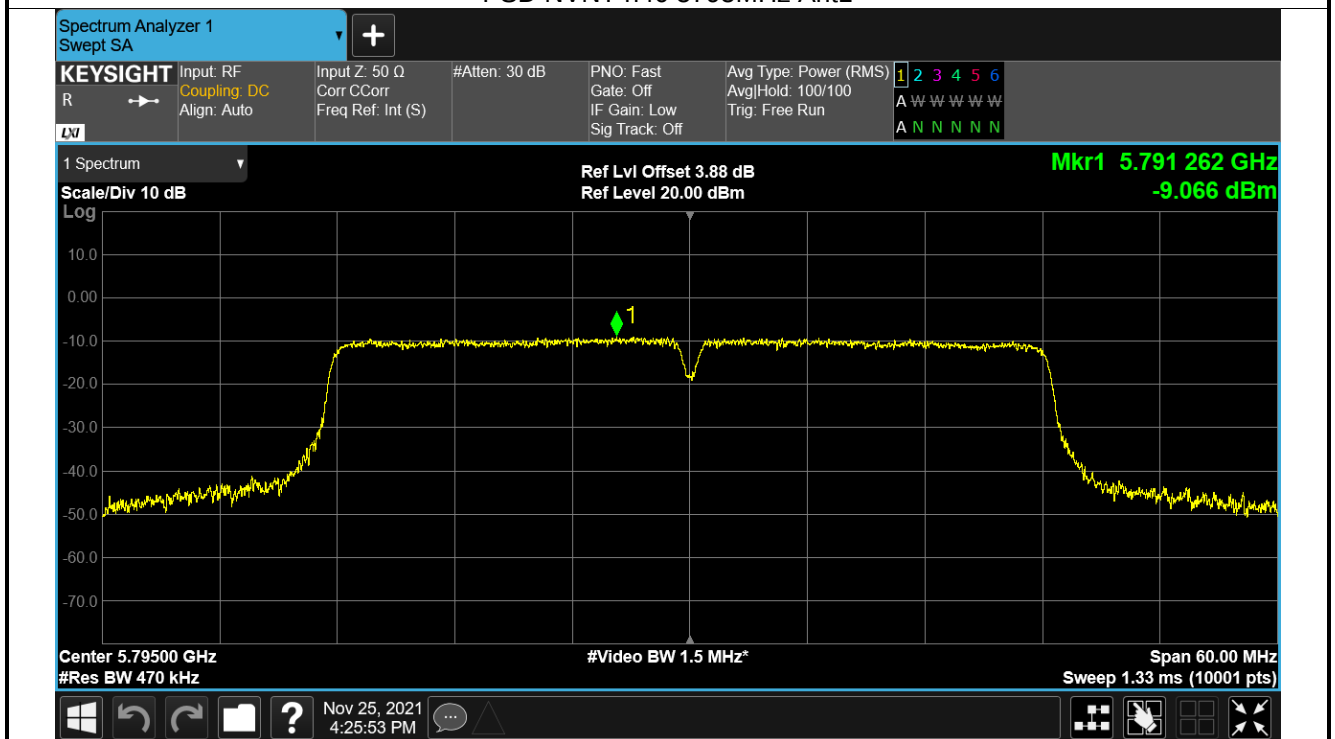
PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1



-----End of report-----