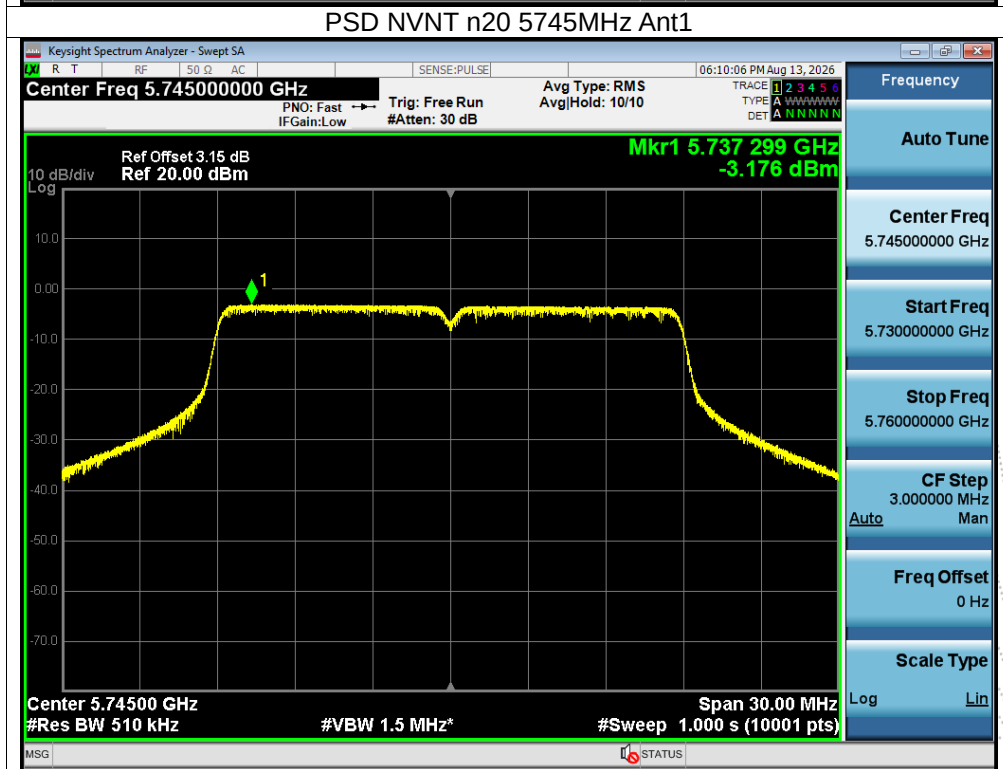
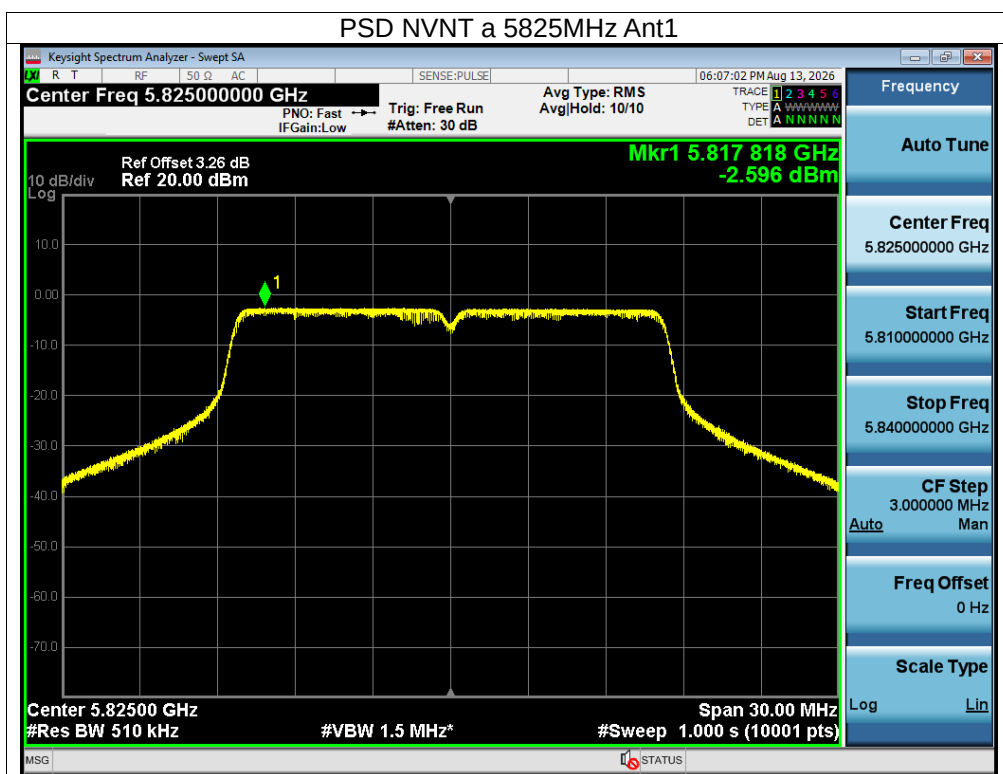
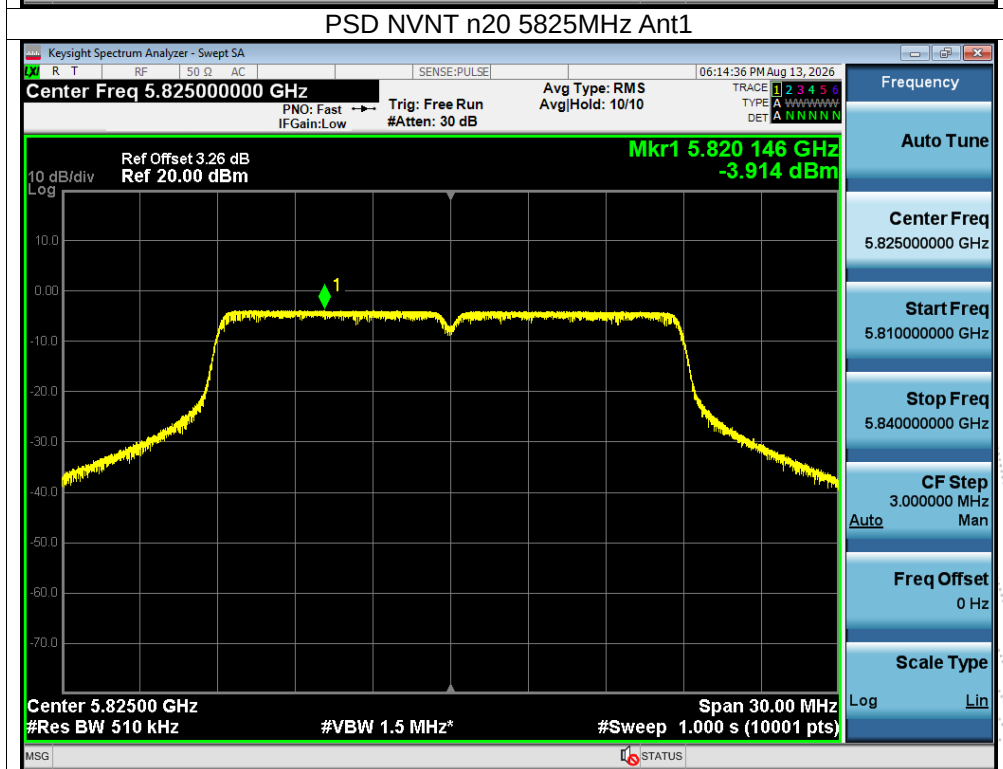
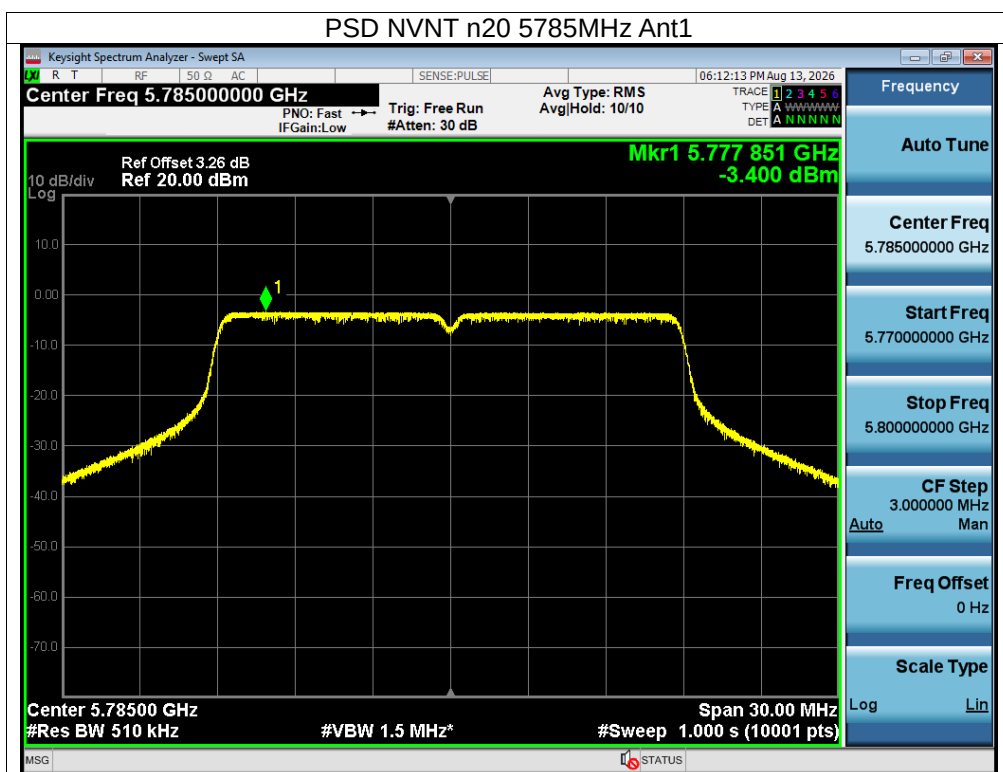
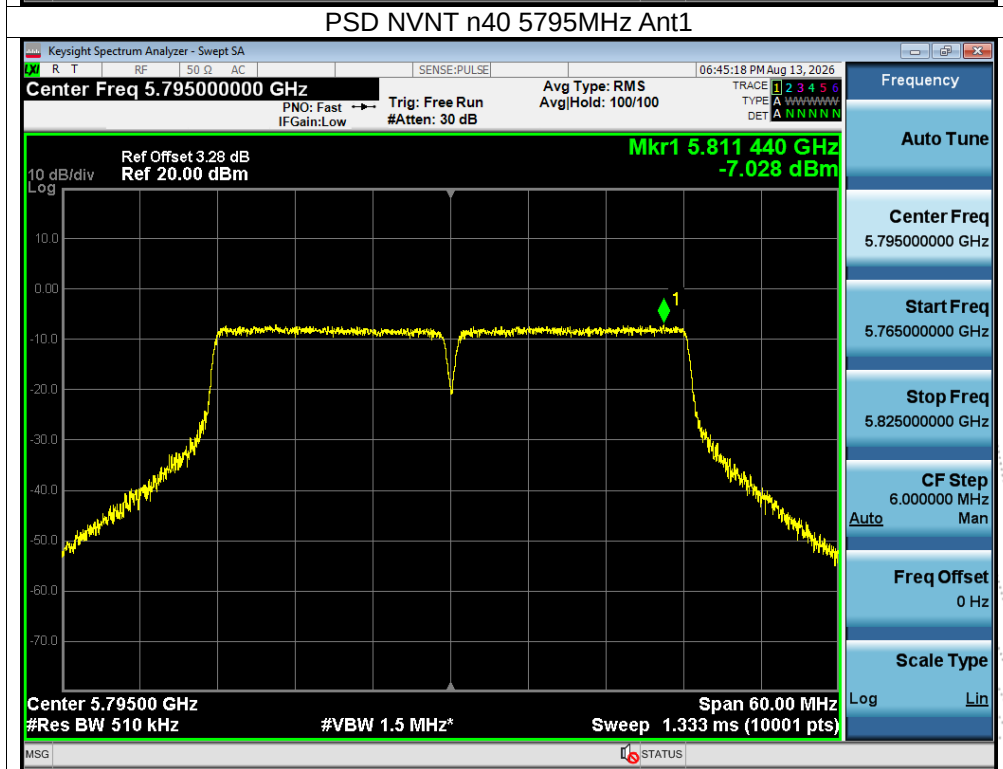
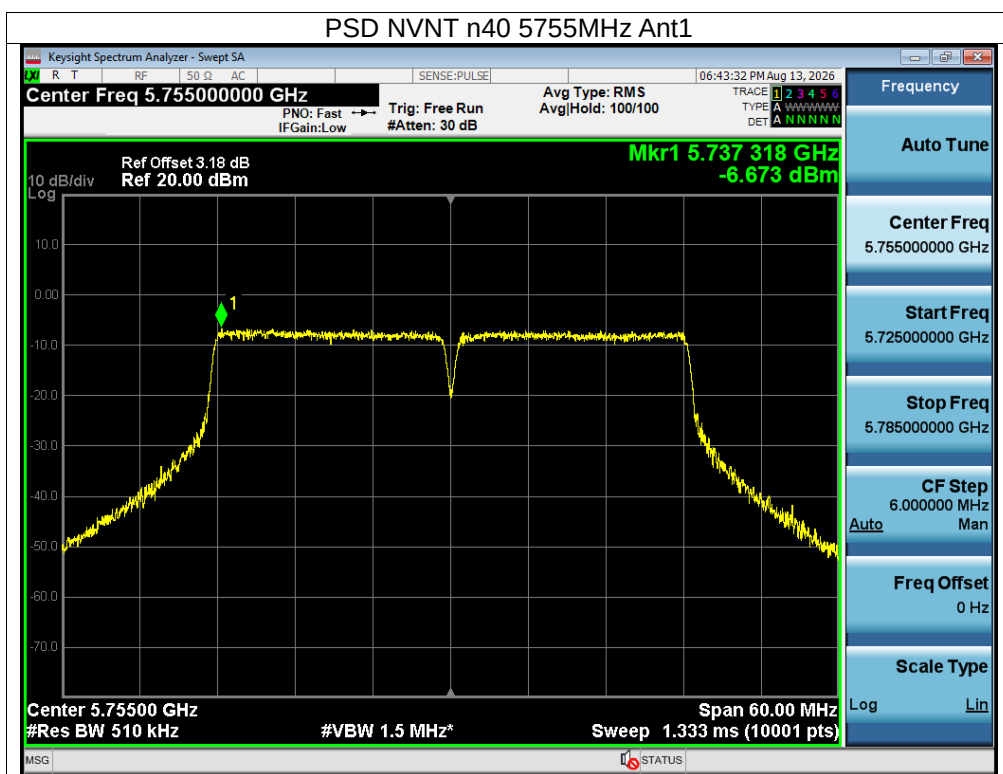
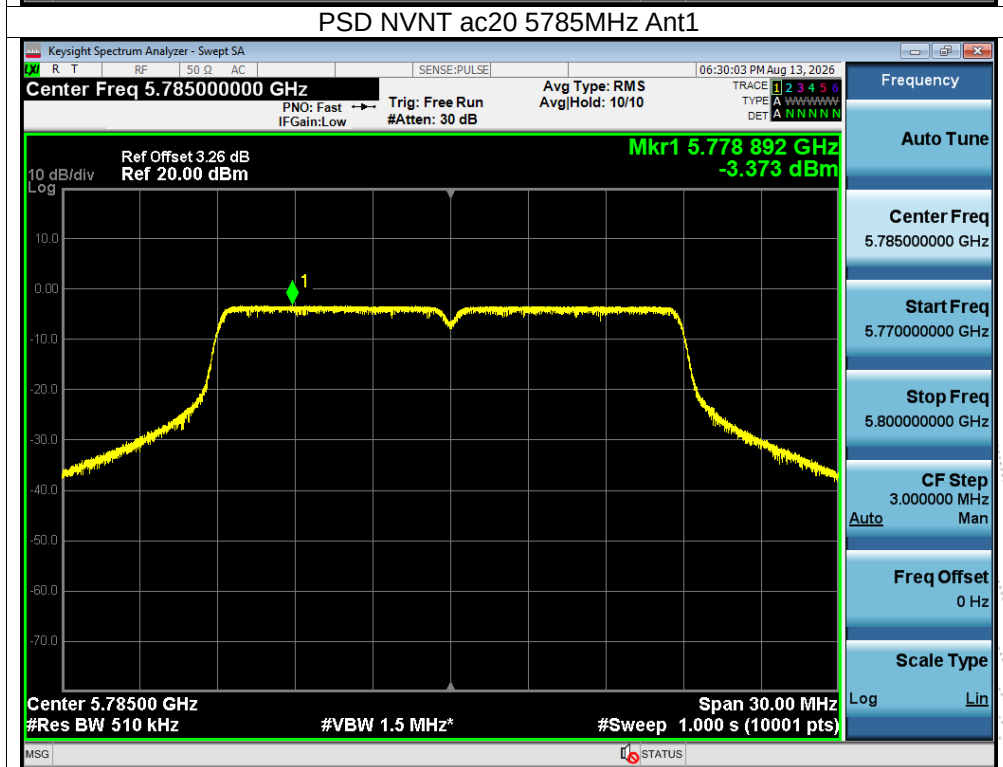
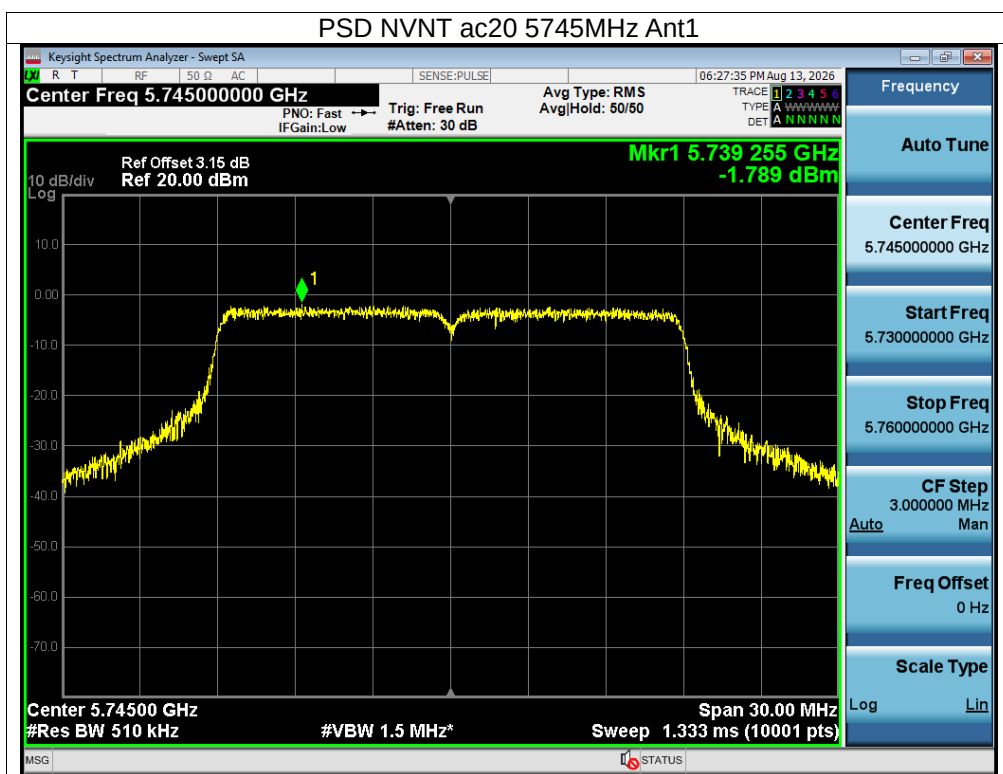
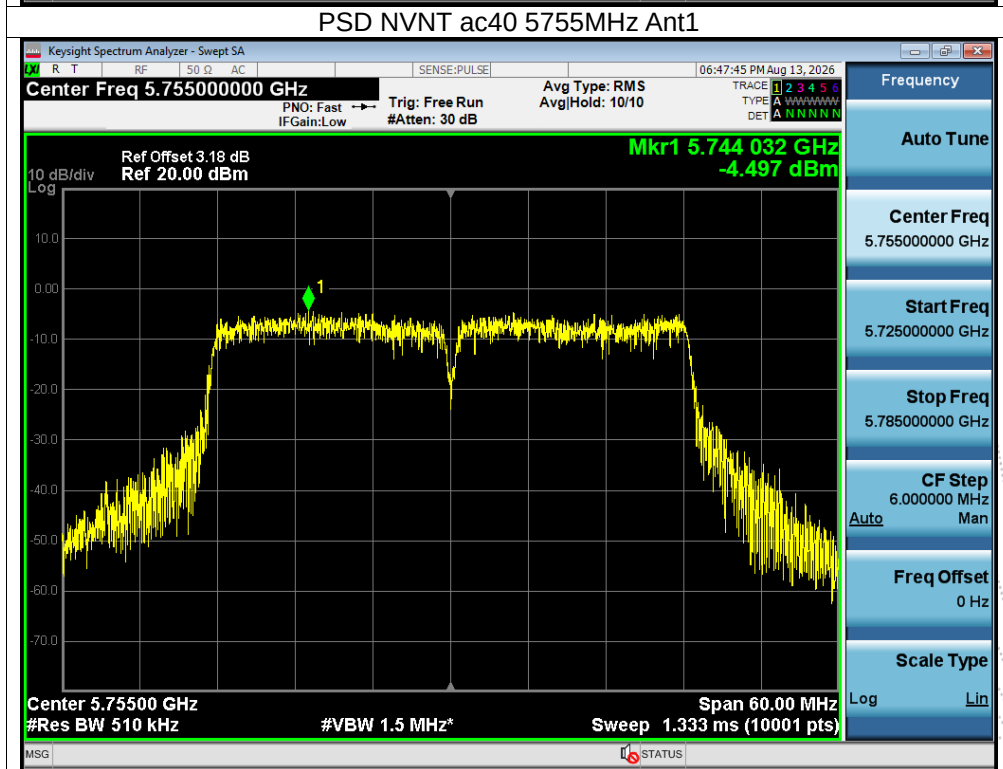
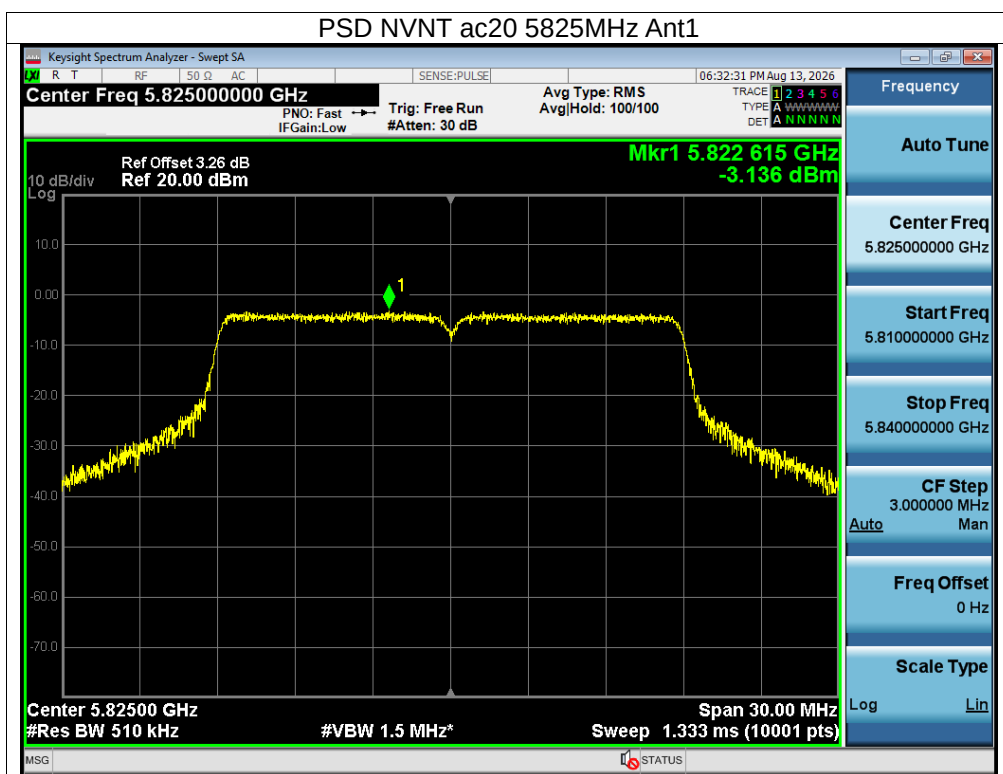


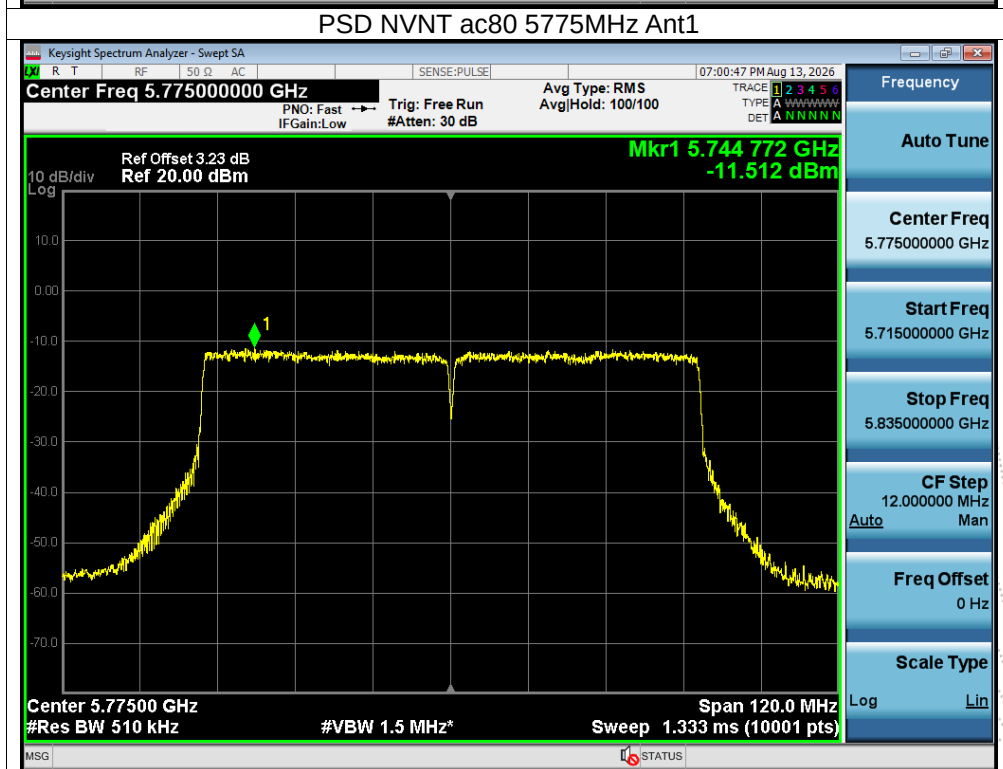
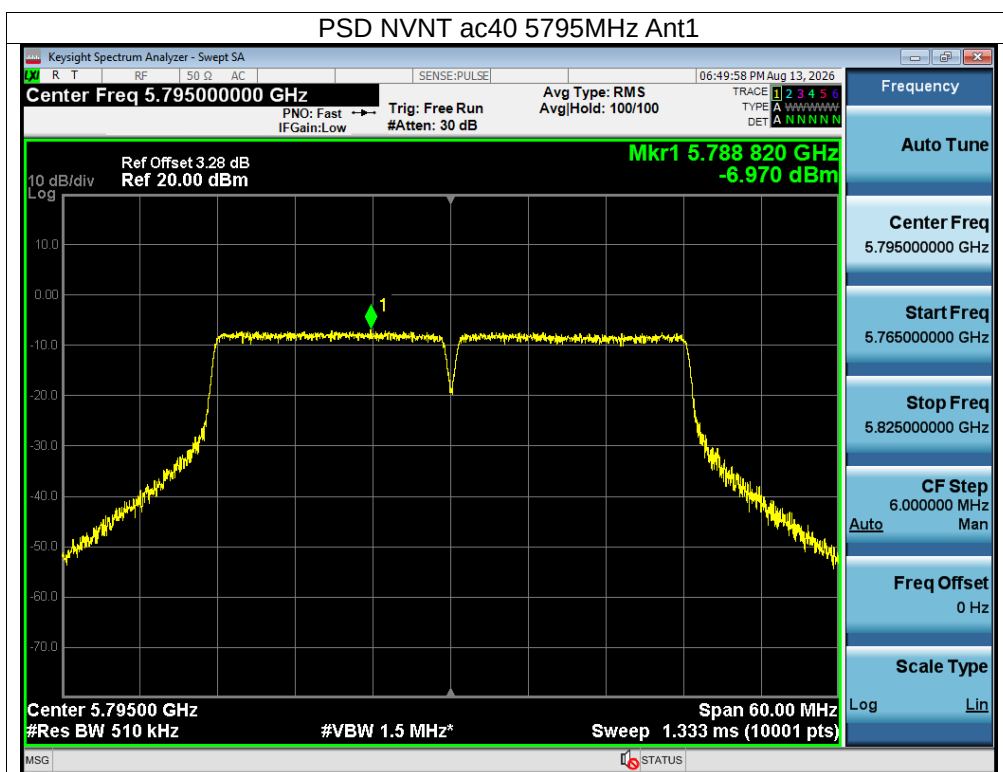




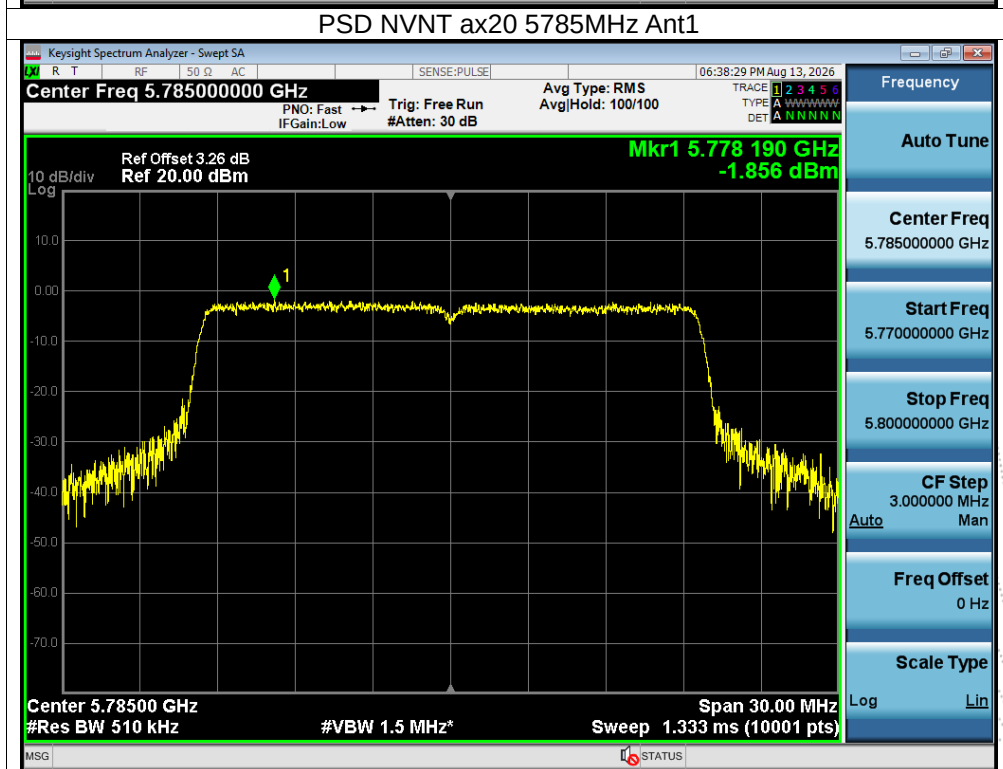
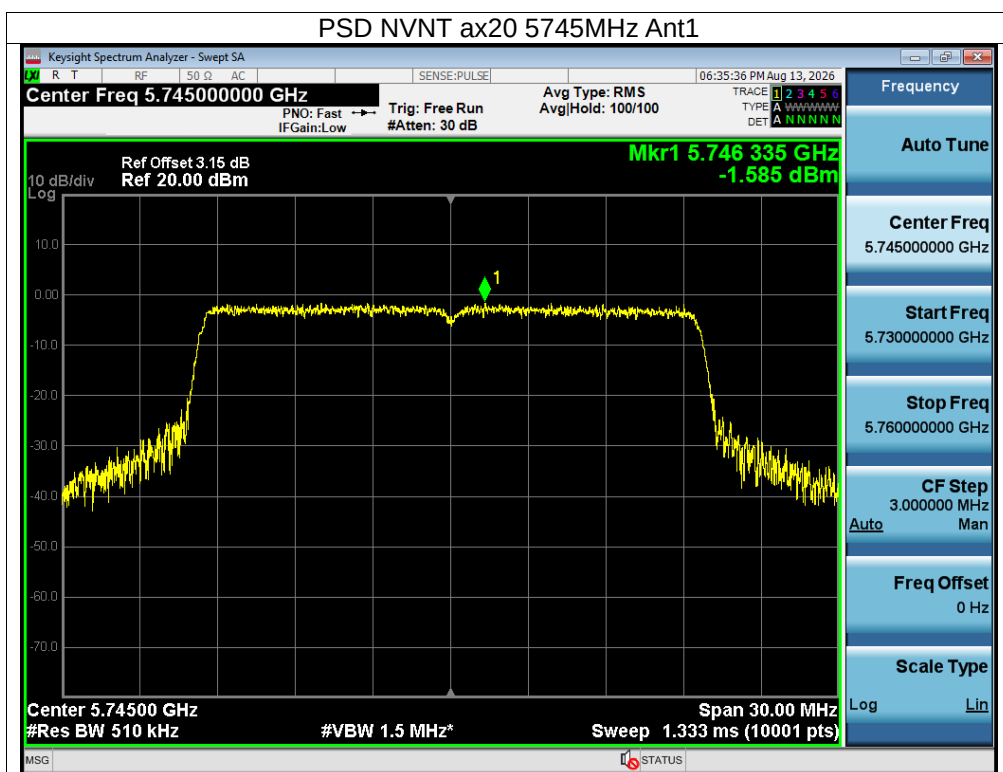




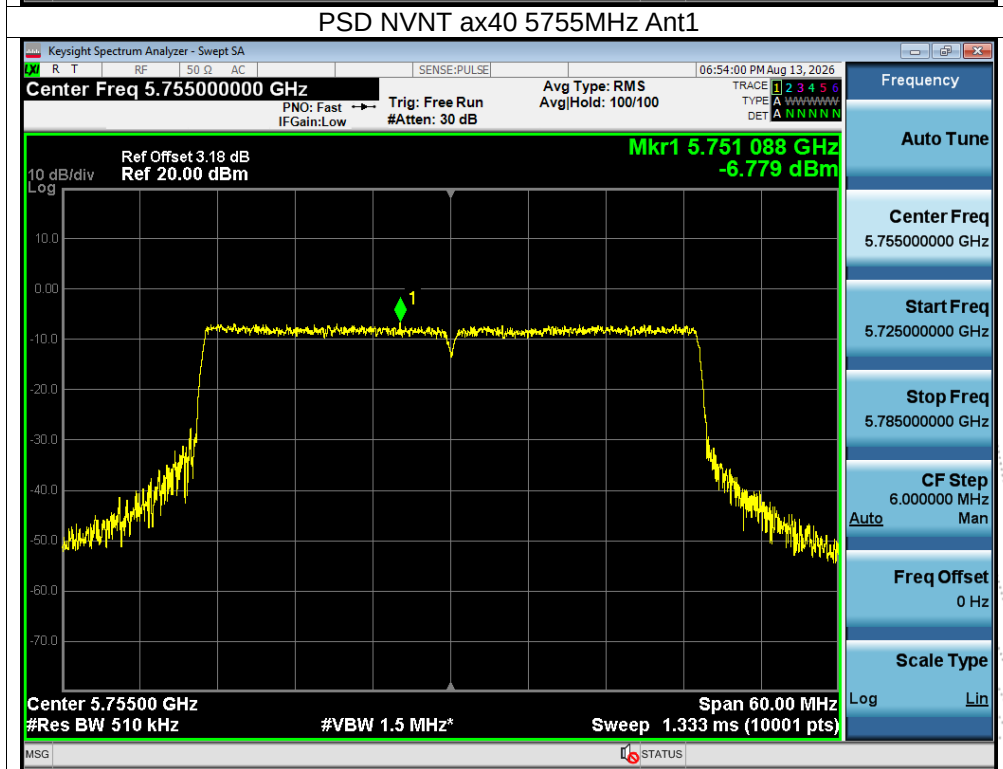
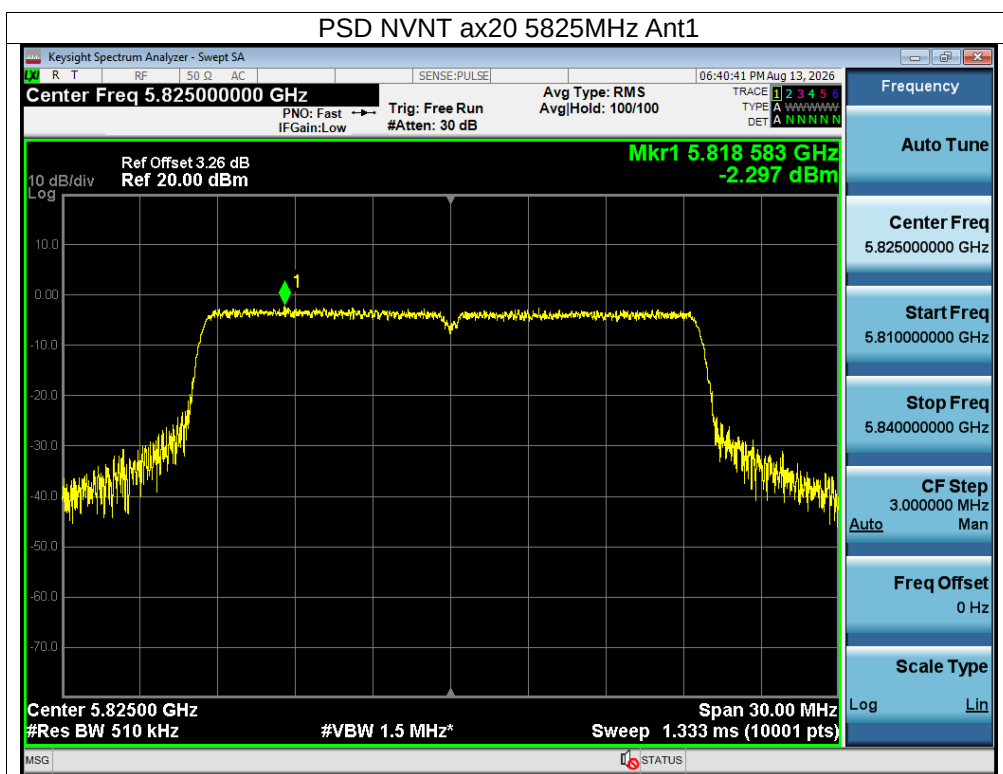


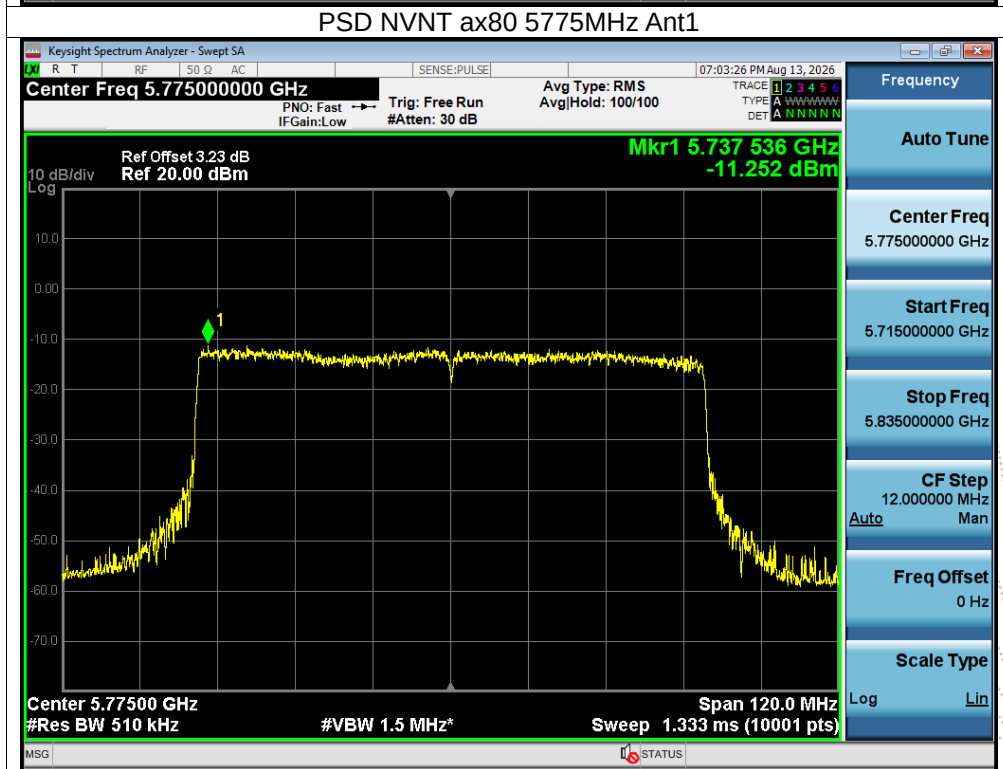
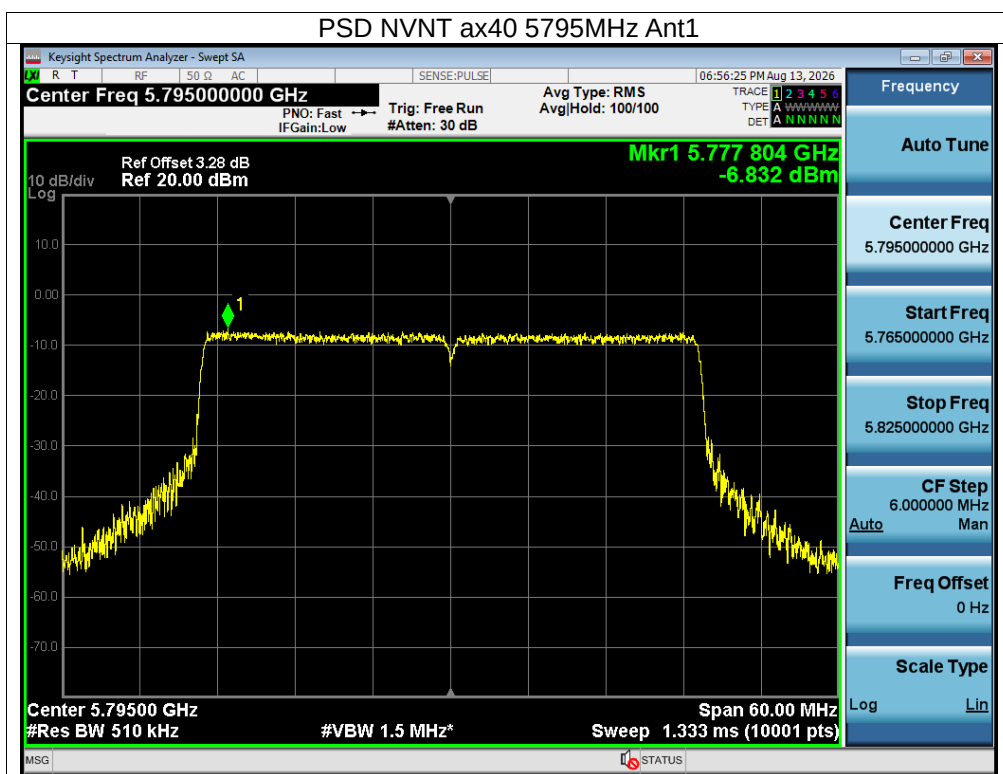


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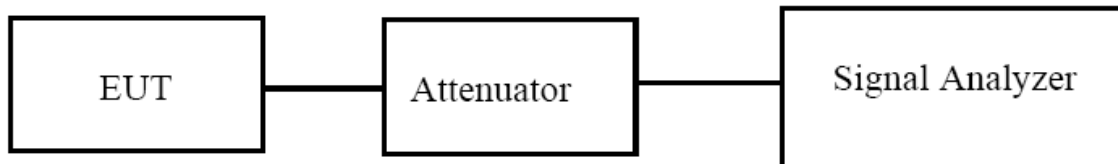
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9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

9.3 Test Procedure

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).

7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

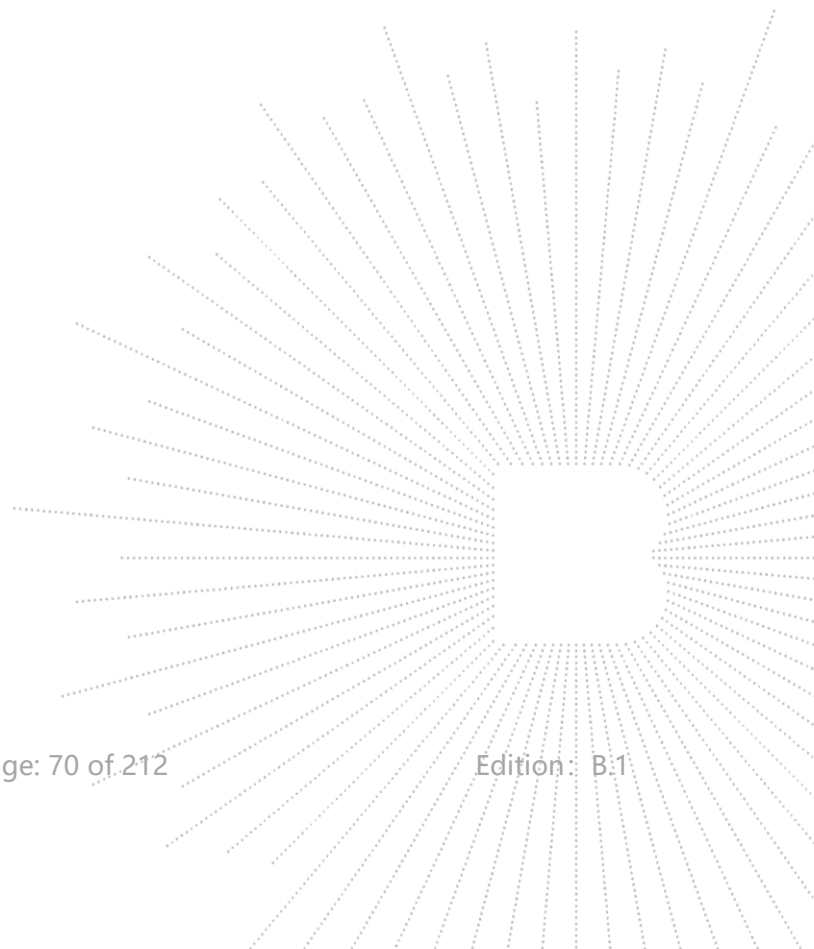
Emission bandwidth for the band 5.725 GHz to 5.85 GHz

The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

9.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



9.5 Test Result

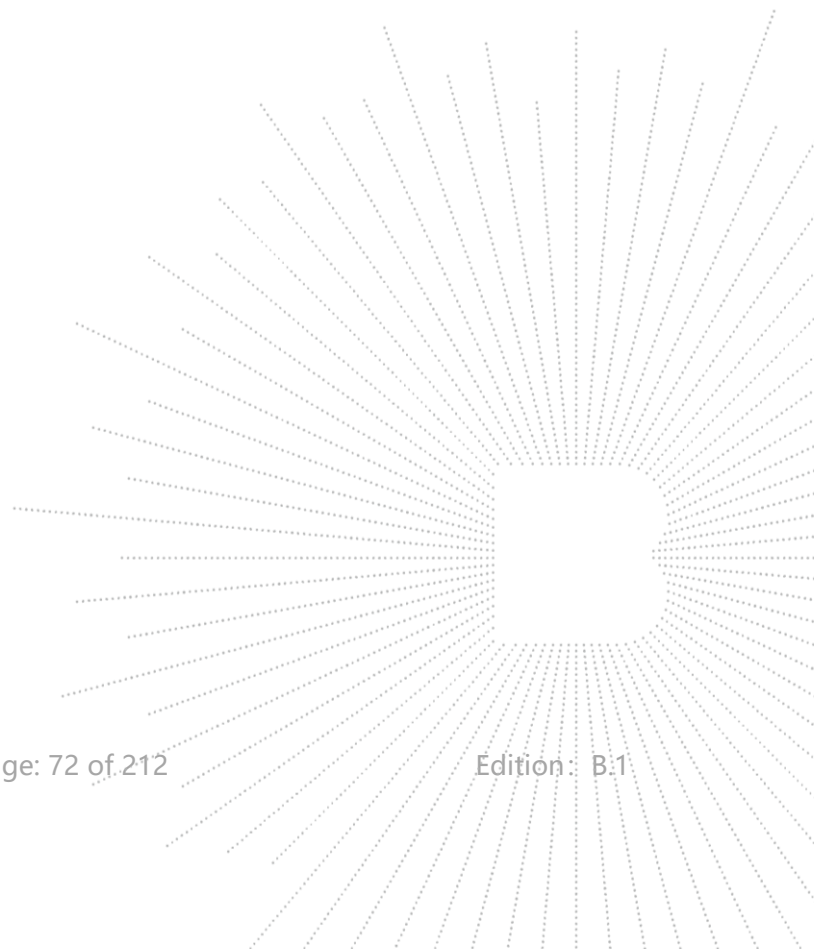
Temperature:	23.2 °C	Relative Humidity:	51%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	(5180-5240MHz)		

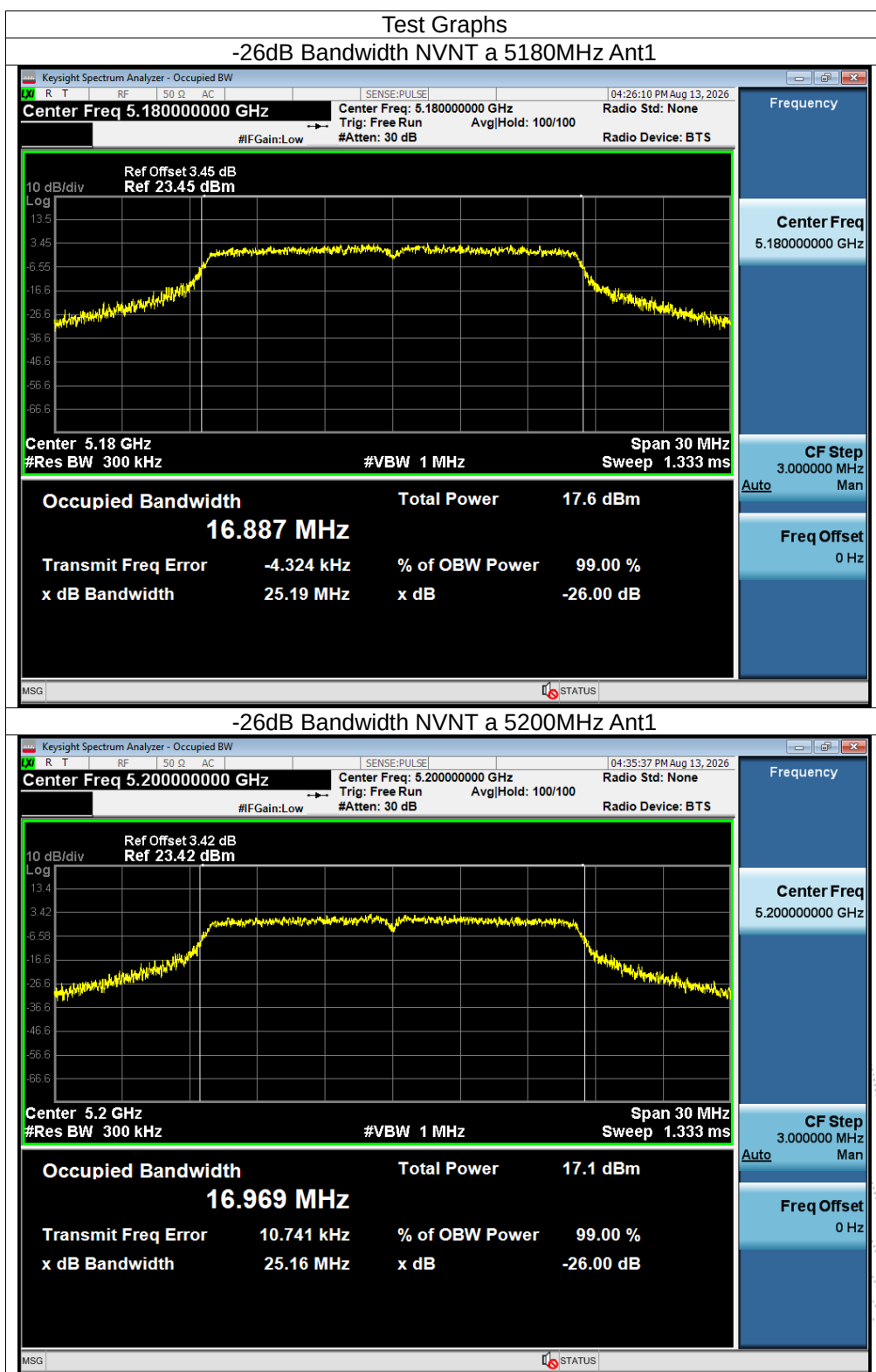
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	25.193	Pass
NVNT	a	5200	25.156	Pass
NVNT	a	5240	25.269	Pass
NVNT	n20	5180	26.595	Pass
NVNT	n20	5200	26.799	Pass
NVNT	n20	5240	25.387	Pass
NVNT	n40	5190	45.965	Pass
NVNT	n40	5230	46.009	Pass
NVNT	ac20	5180	26.202	Pass
NVNT	ac20	5200	25.767	Pass
NVNT	ac20	5240	26.653	Pass
NVNT	ac40	5190	46.209	Pass
NVNT	ac40	5230	47.464	Pass
NVNT	ac80	5210	88.095	Pass
NVNT	ax20	5180	26.774	Pass
NVNT	ax20	5200	26.727	Pass
NVNT	ax20	5240	25.089	Pass
NVNT	ax40	5190	44.406	Pass
NVNT	ax40	5230	44.95	Pass
NVNT	ax80	5210	87.935	Pass

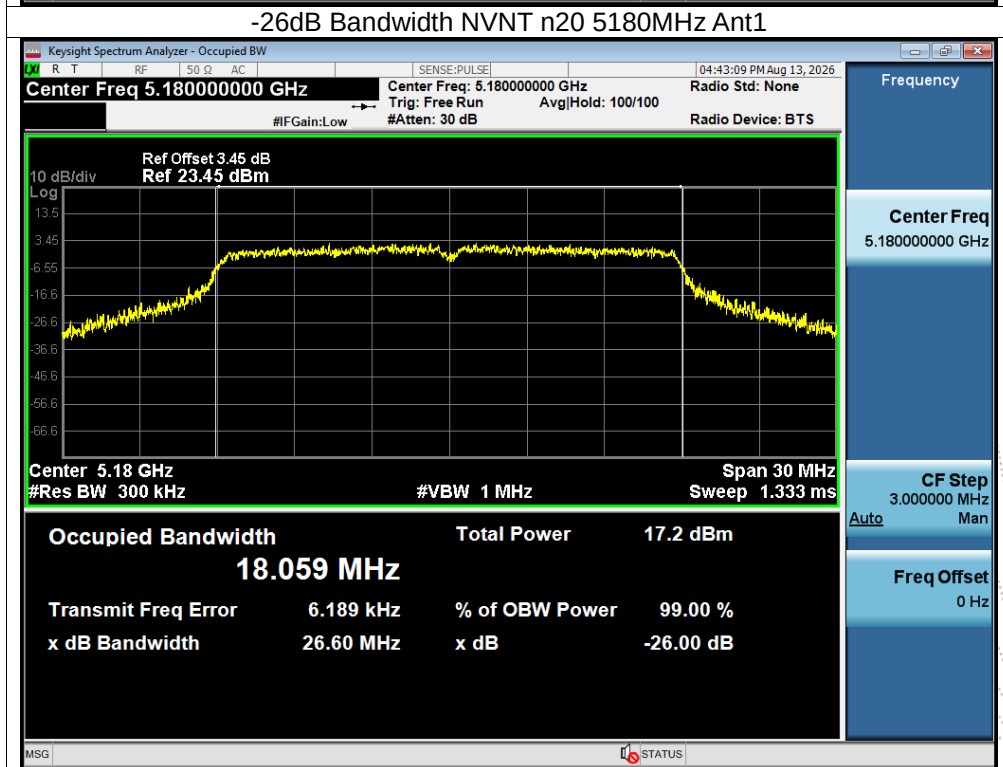
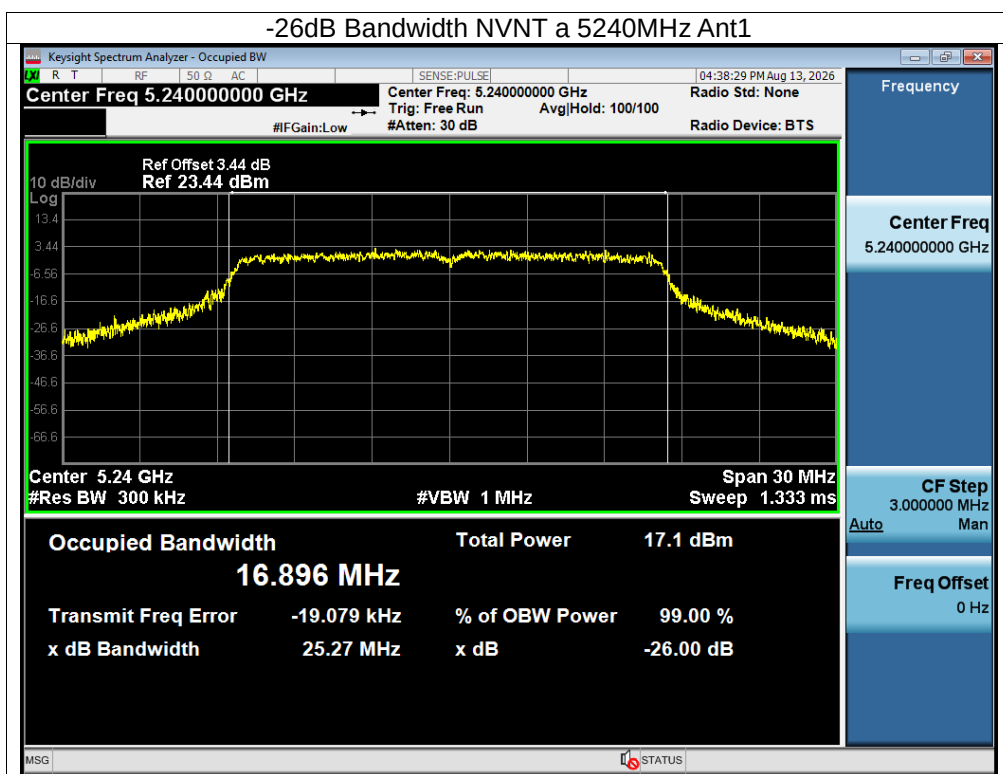
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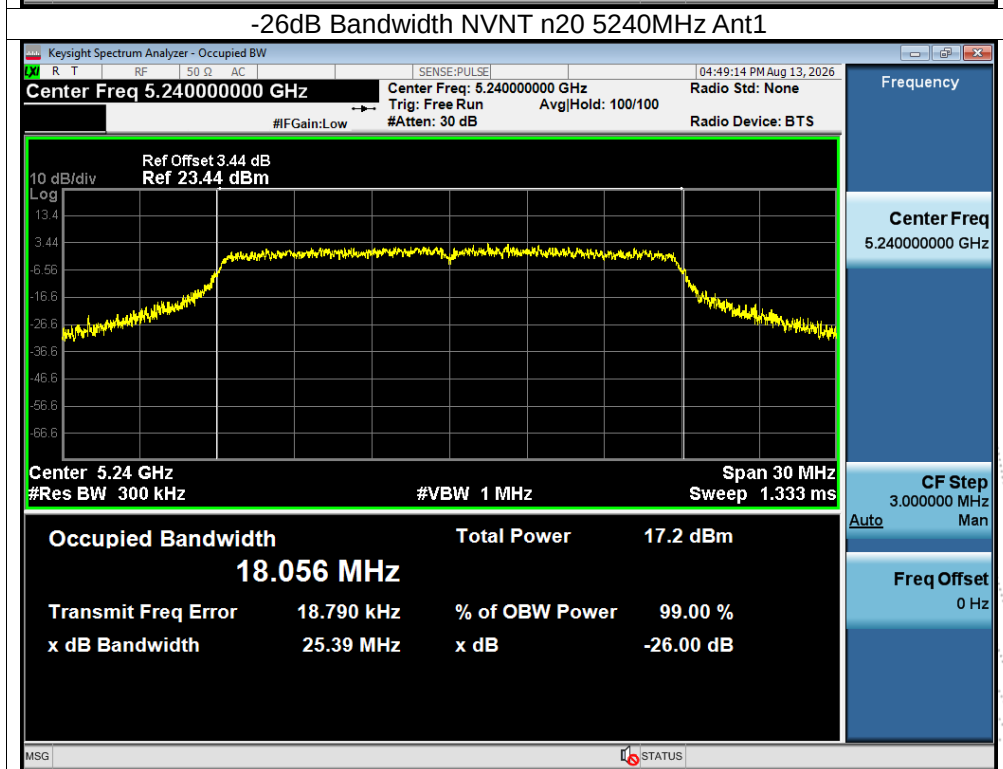
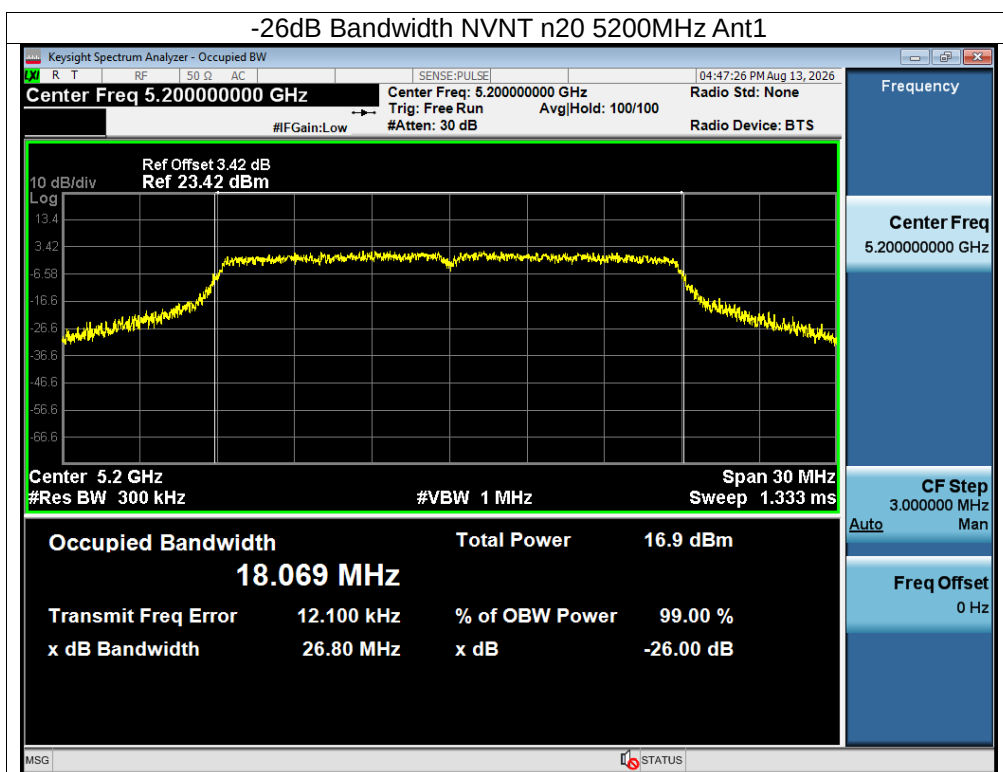
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.671
NVNT	a	5200	16.681
NVNT	a	5240	16.66
NVNT	n20	5180	17.847
NVNT	n20	5200	17.821
NVNT	n20	5240	17.816
NVNT	n40	5190	36.37
NVNT	n40	5230	36.343
NVNT	ac20	5180	17.843
NVNT	ac20	5200	17.806
NVNT	ac20	5240	17.828
NVNT	ac40	5190	36.36
NVNT	ac40	5230	36.346
NVNT	ac80	5210	75.652
NVNT	ax20	5180	18.999
NVNT	ax20	5200	19.027
NVNT	ax20	5240	19.068
NVNT	ax40	5190	37.883
NVNT	ax40	5230	37.819
NVNT	ax80	5210	77.216

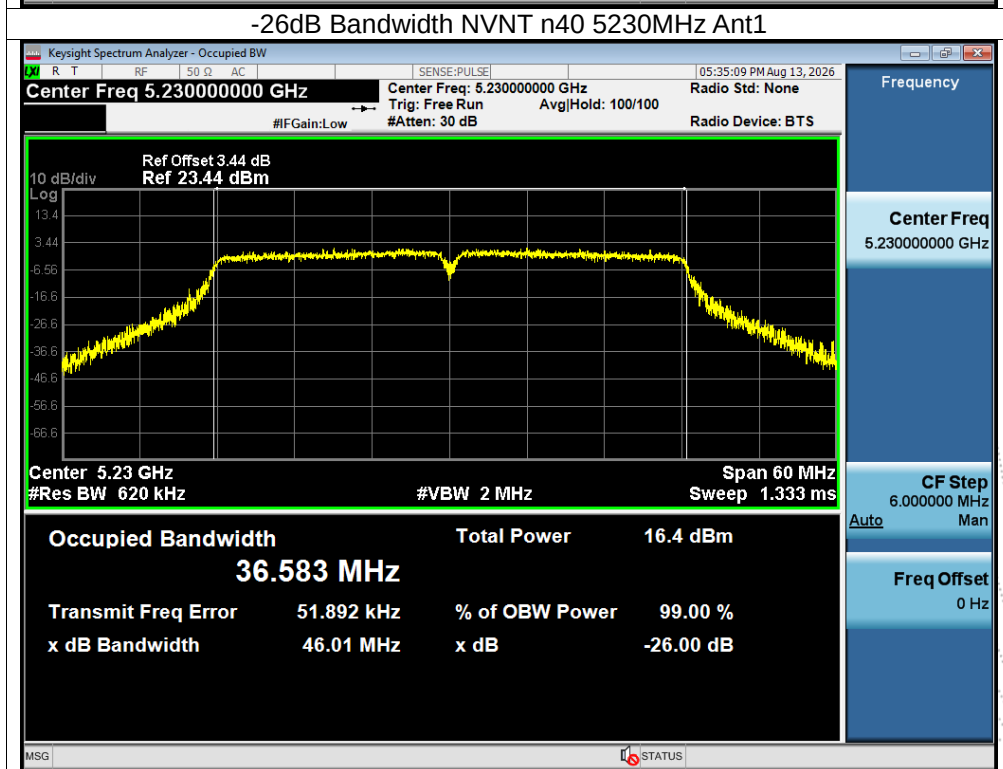
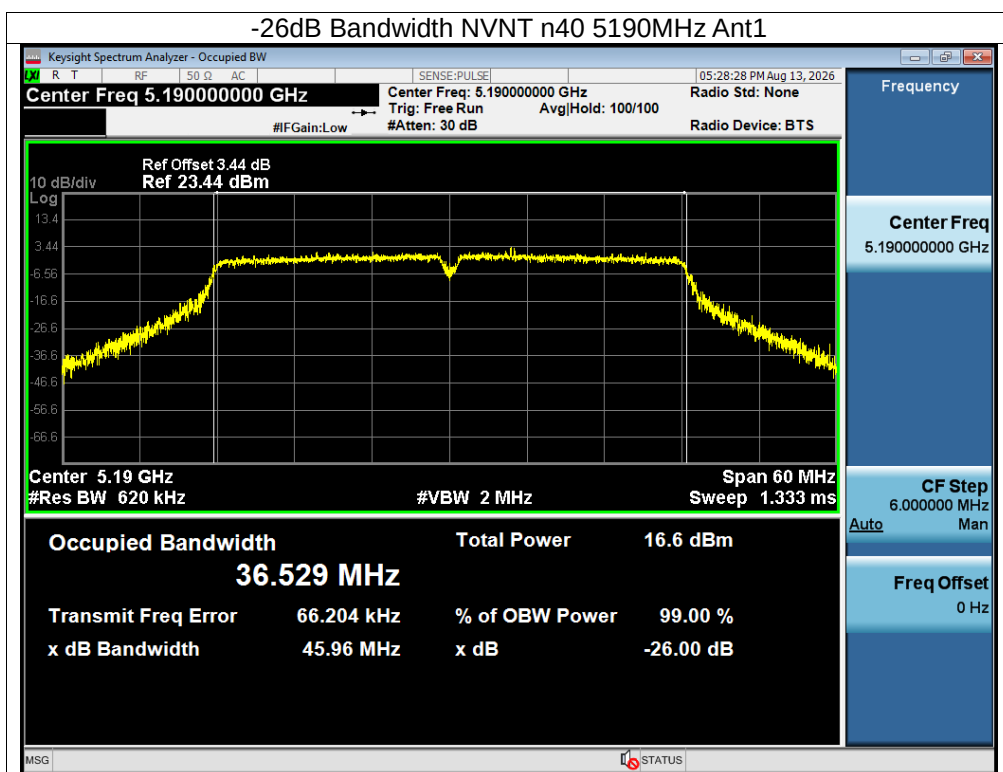
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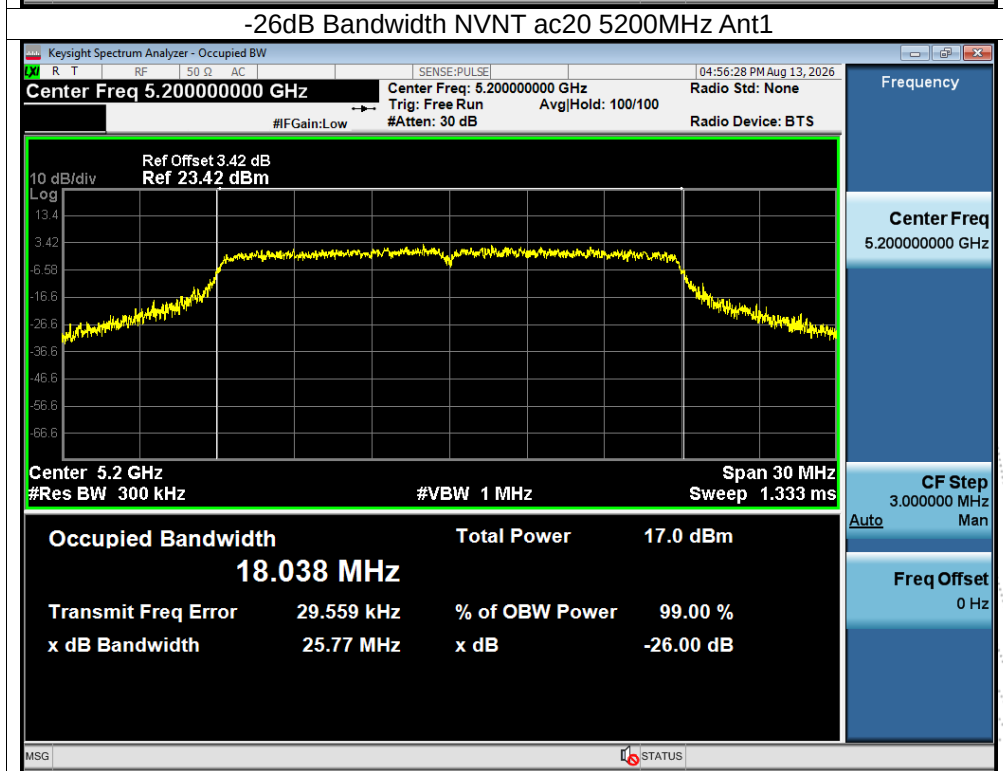
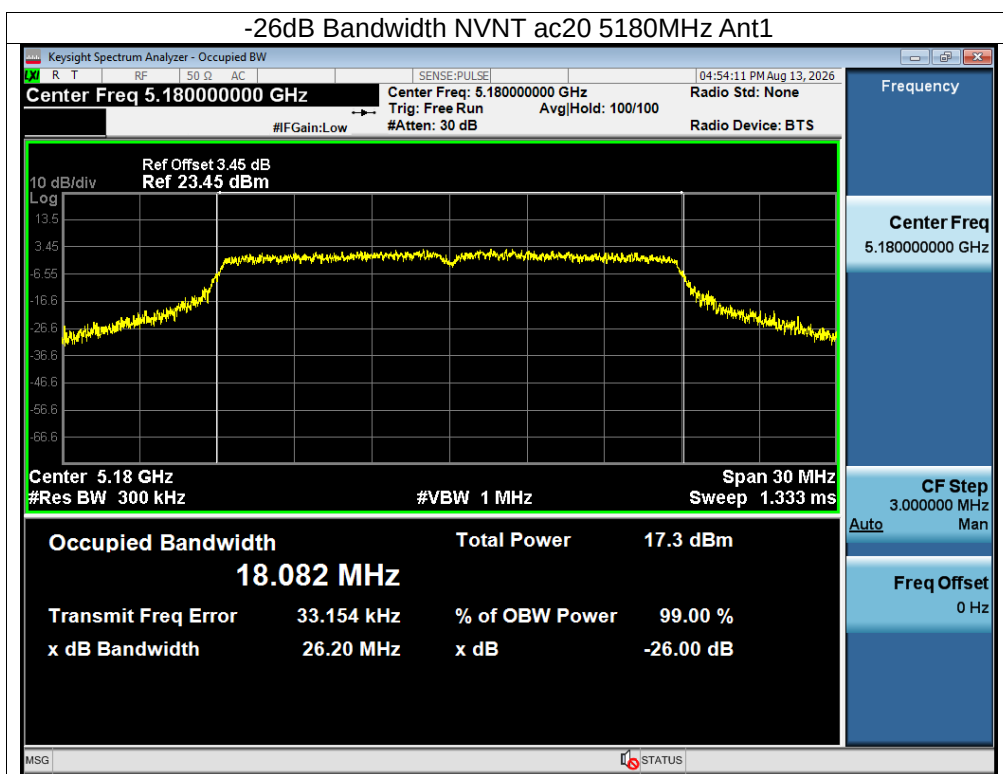




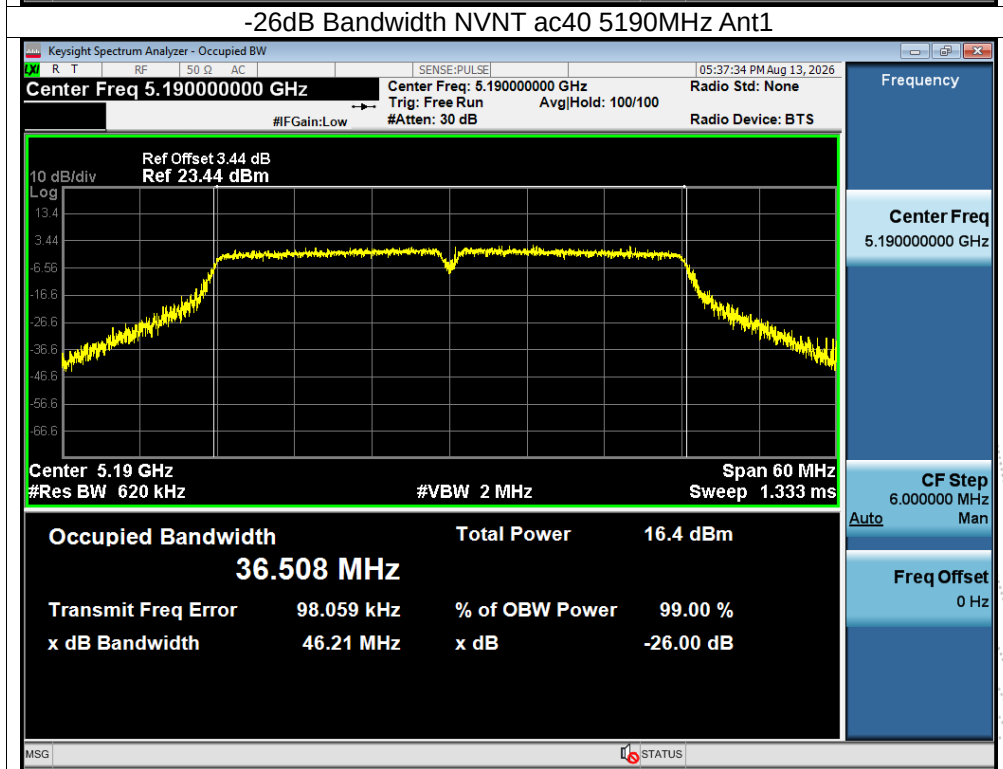
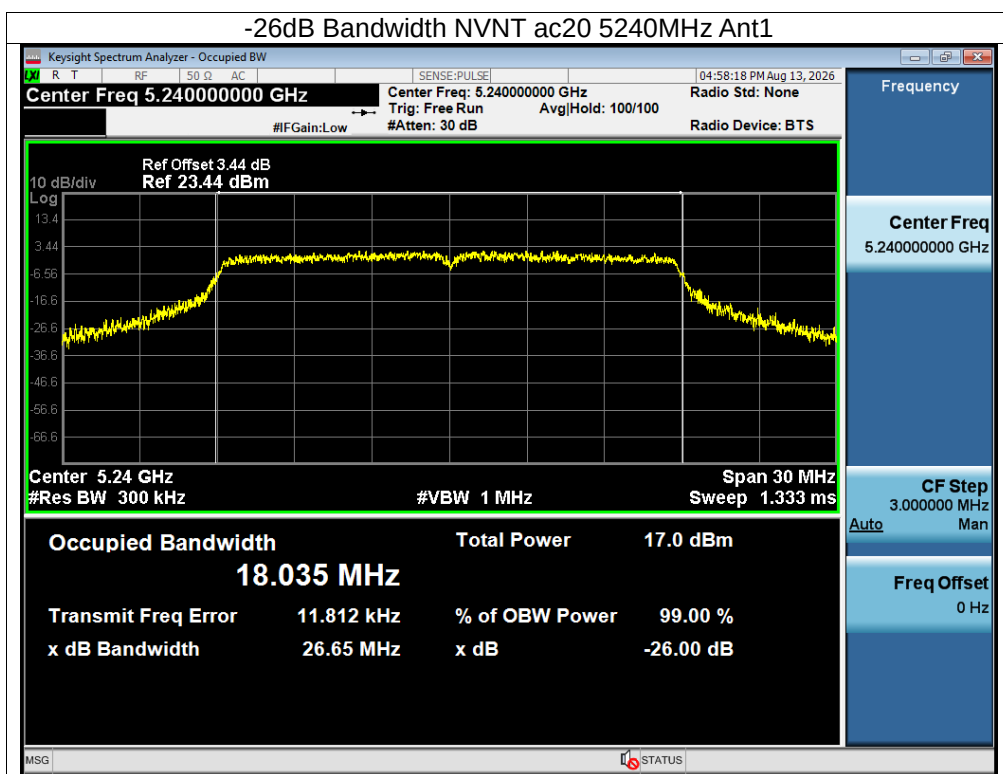


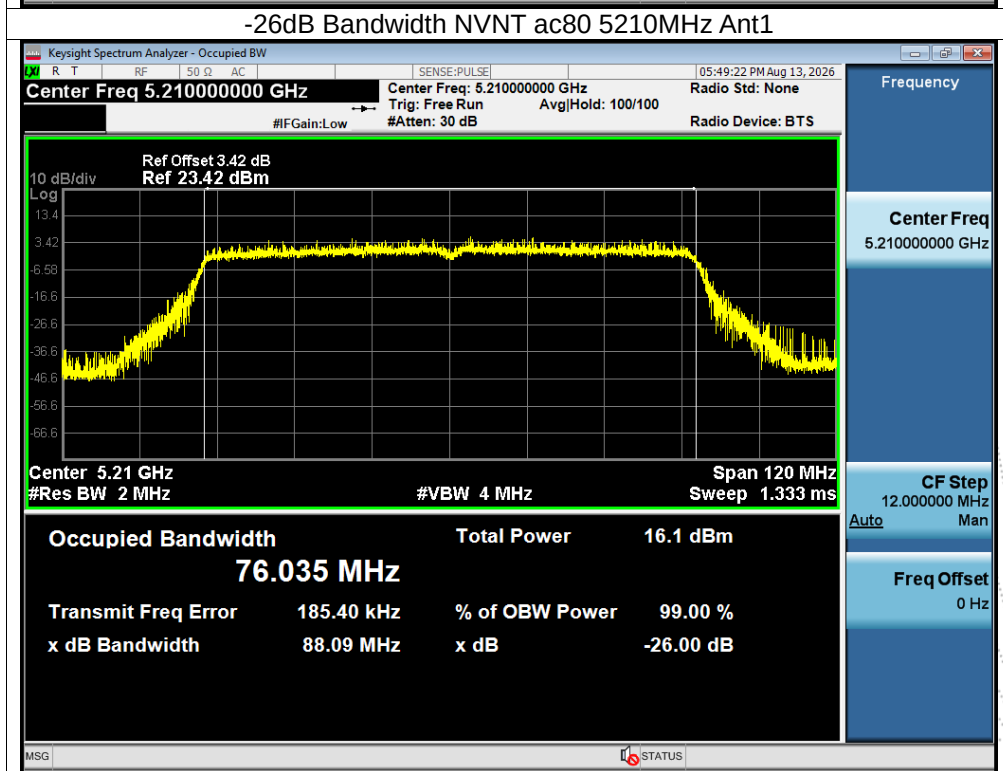
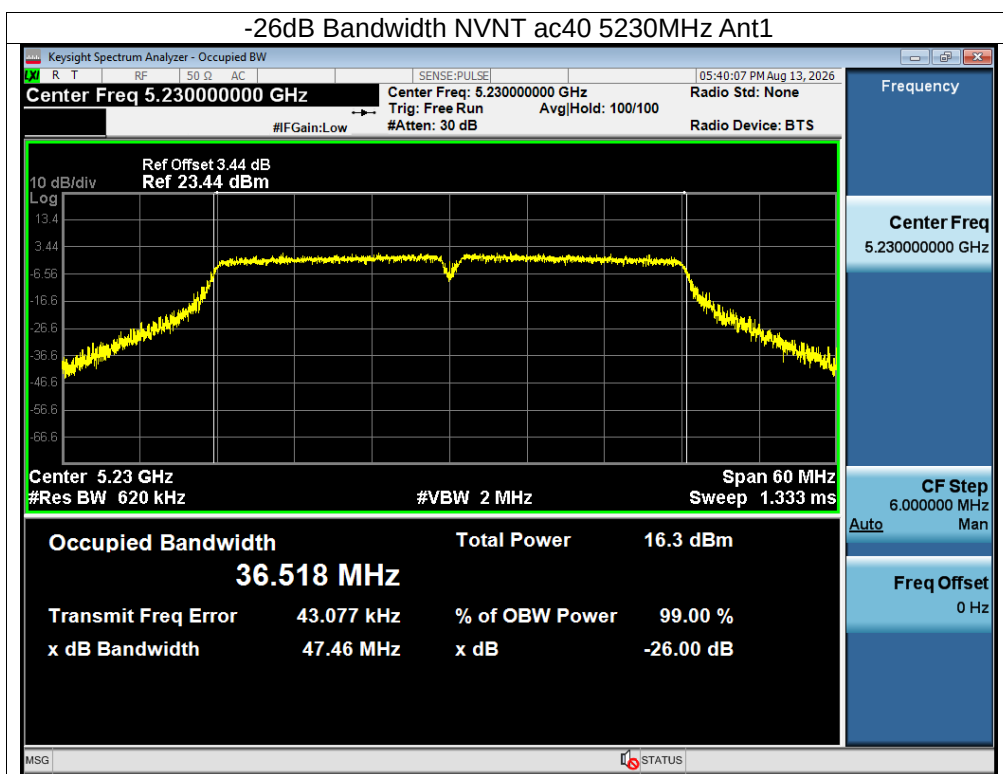


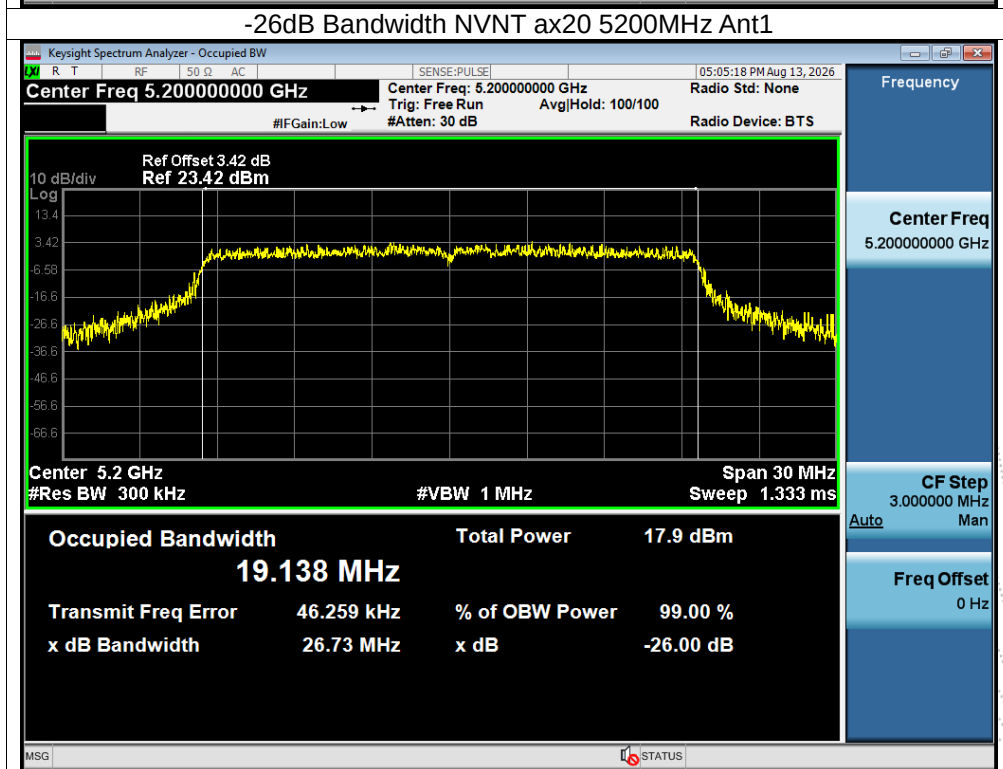
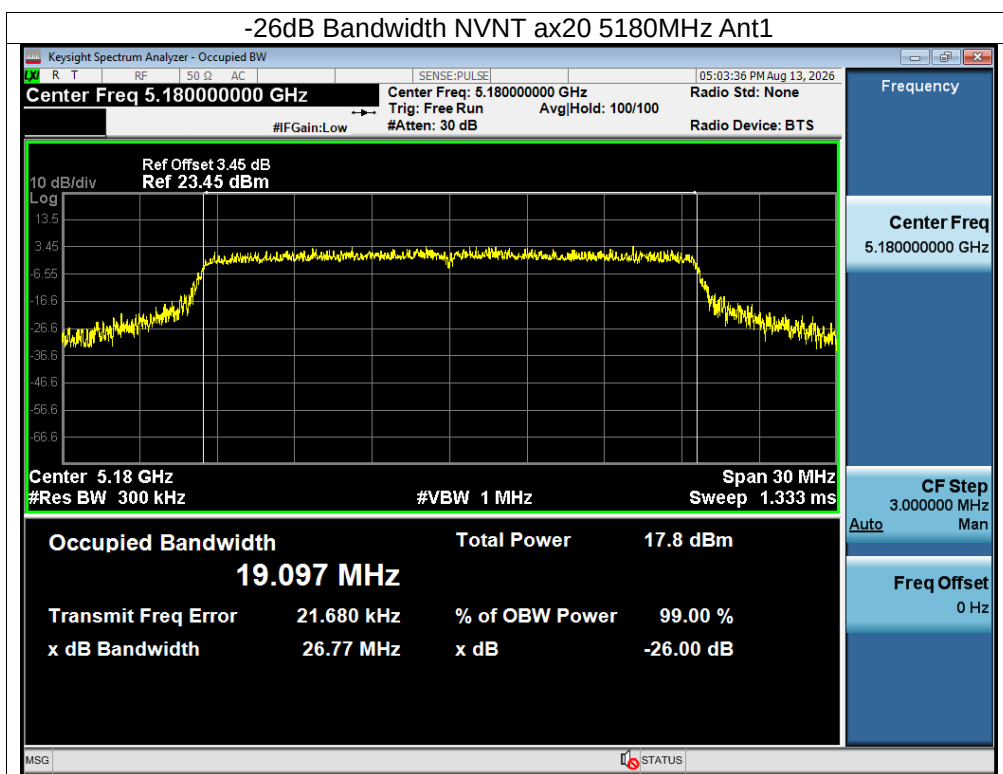


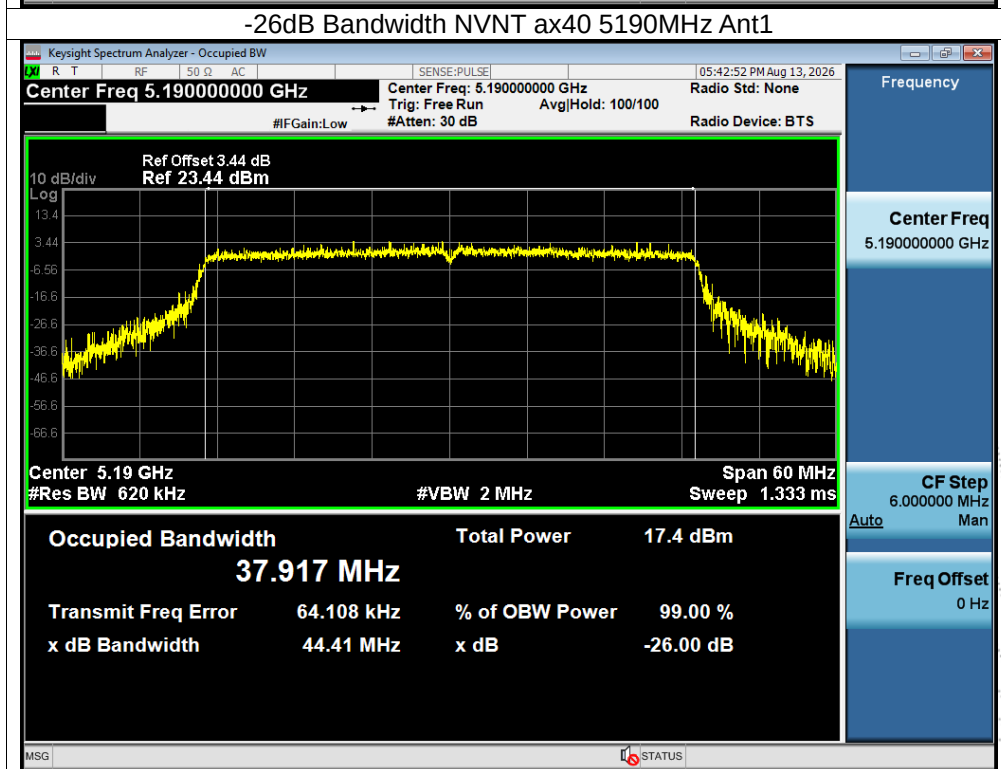
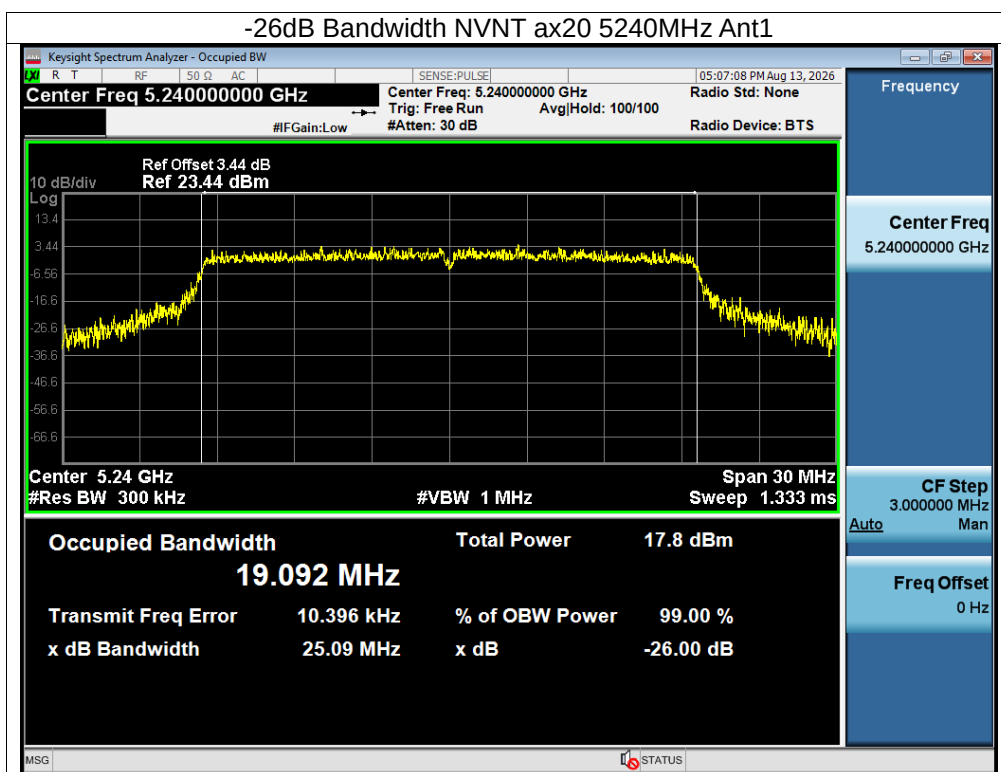


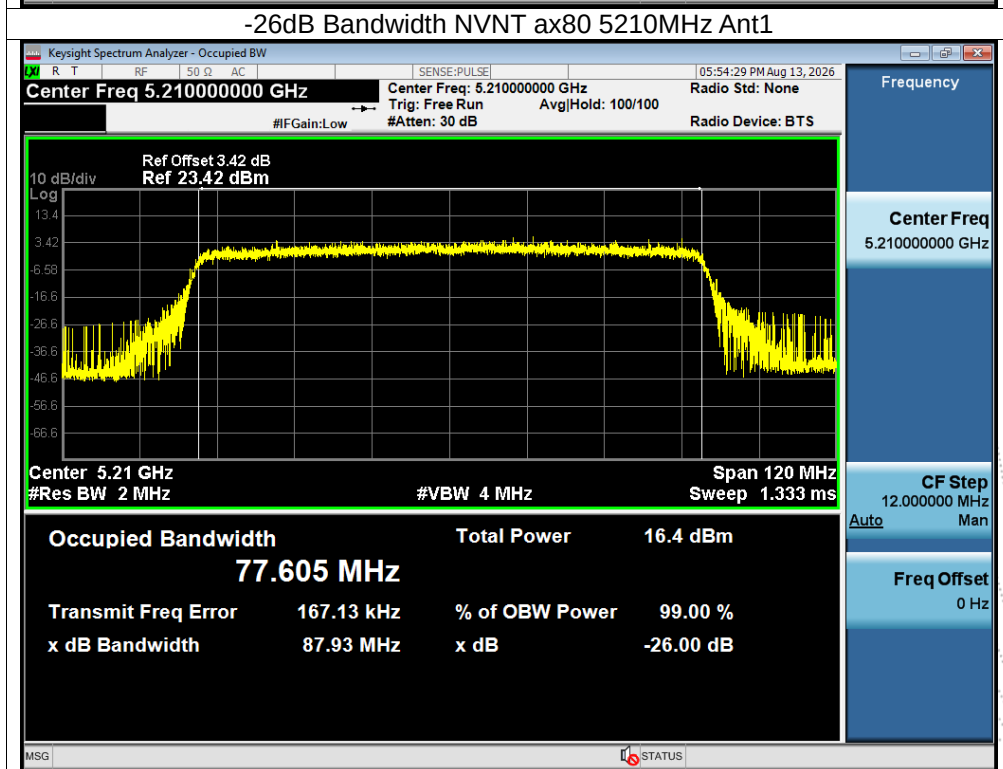
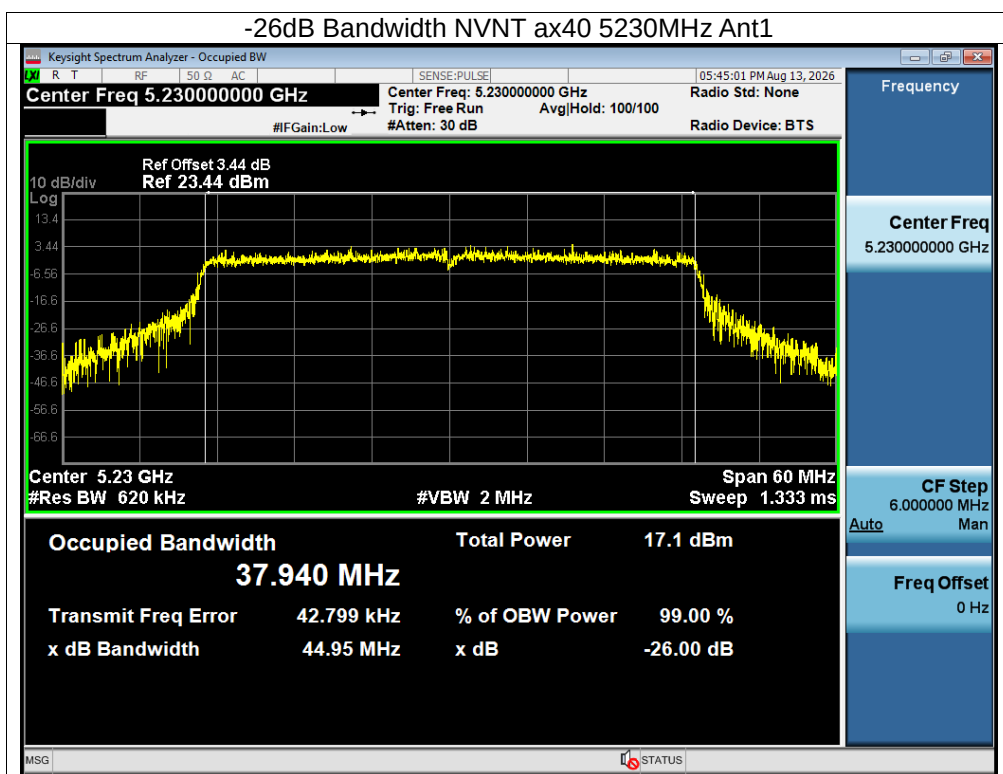
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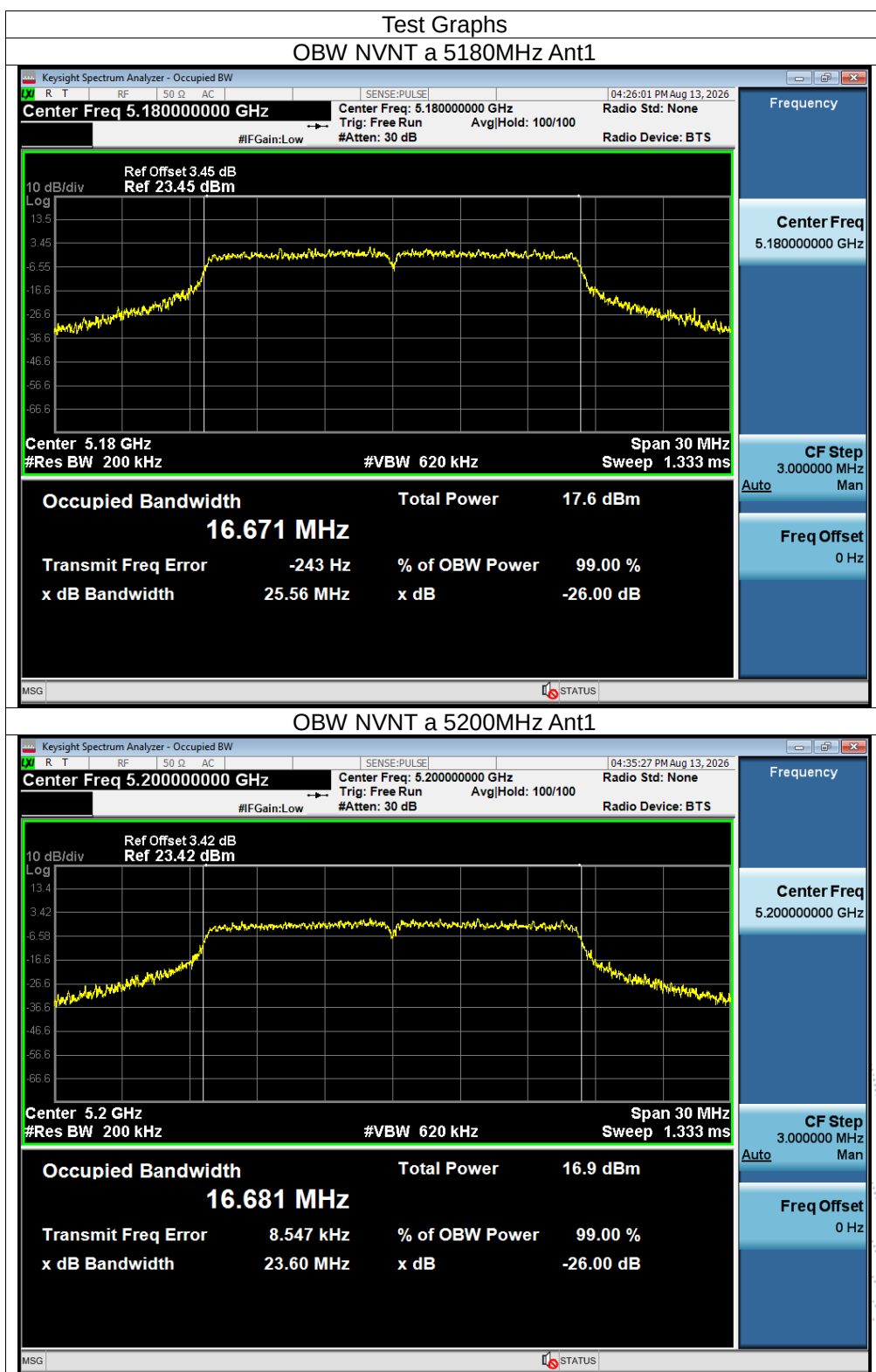




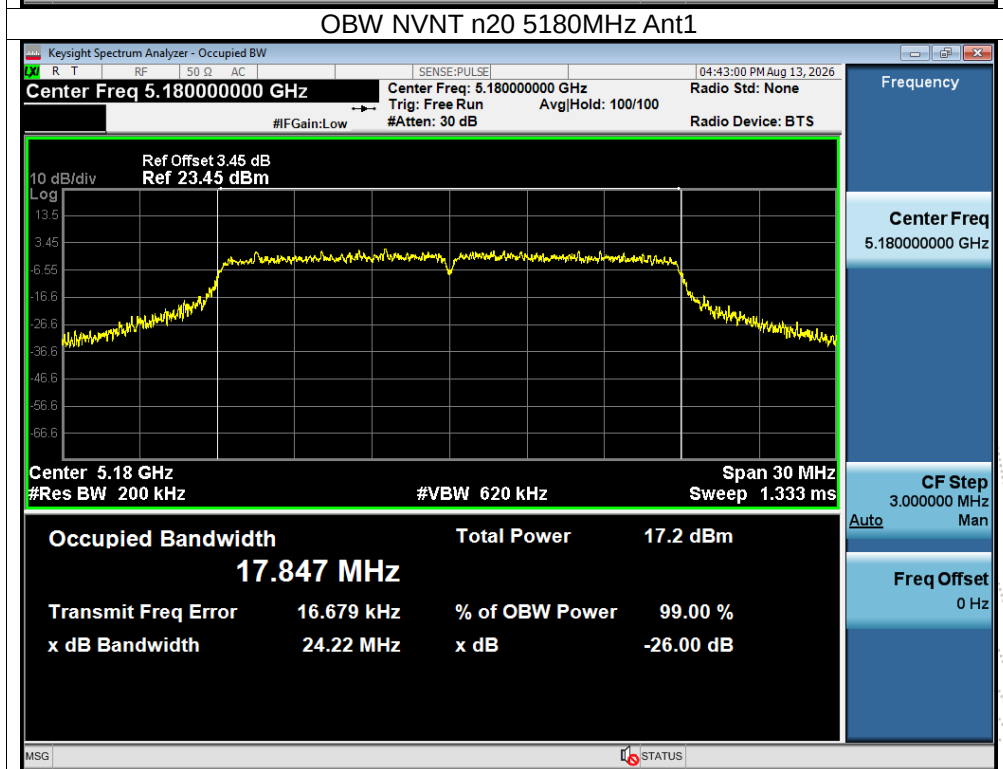
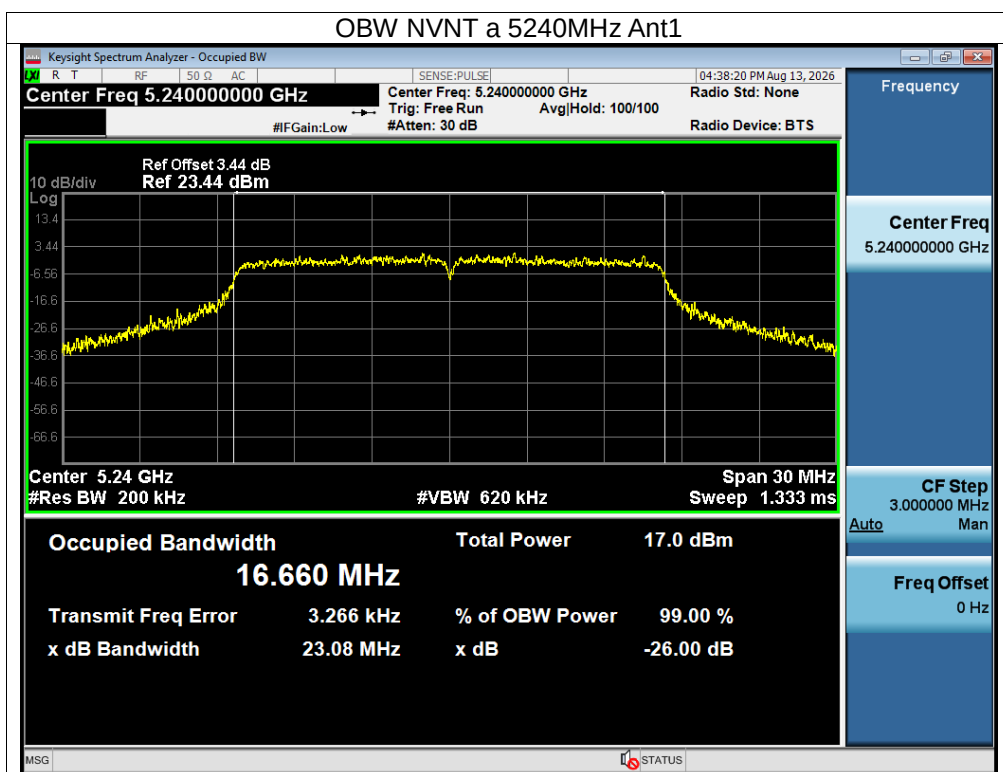


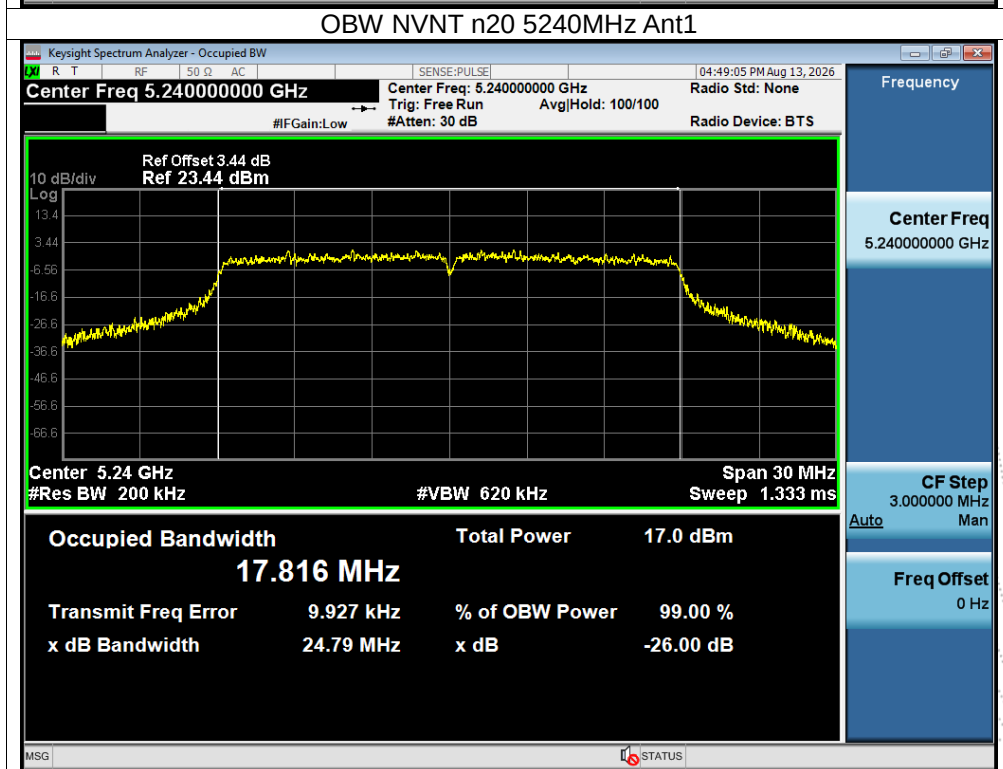
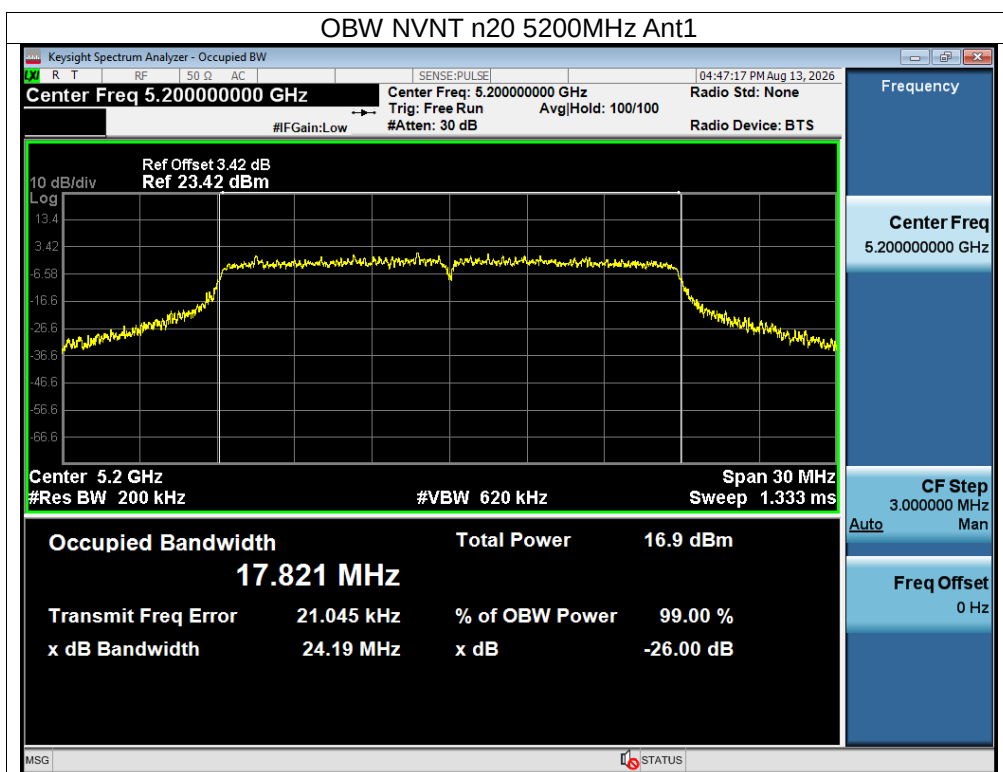


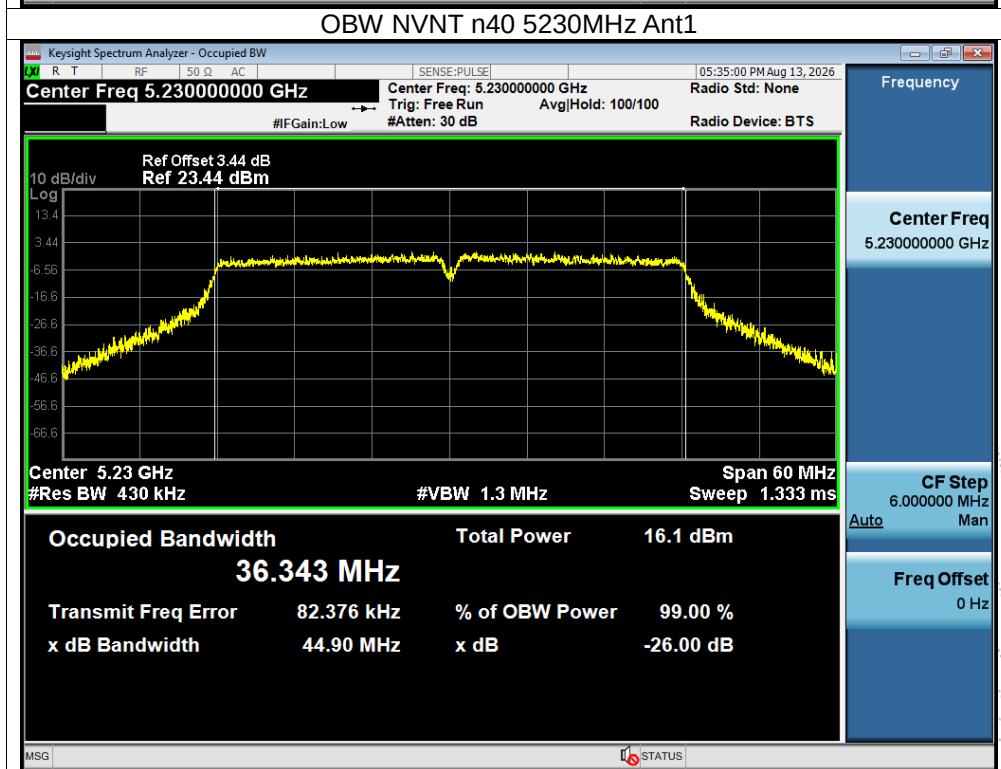
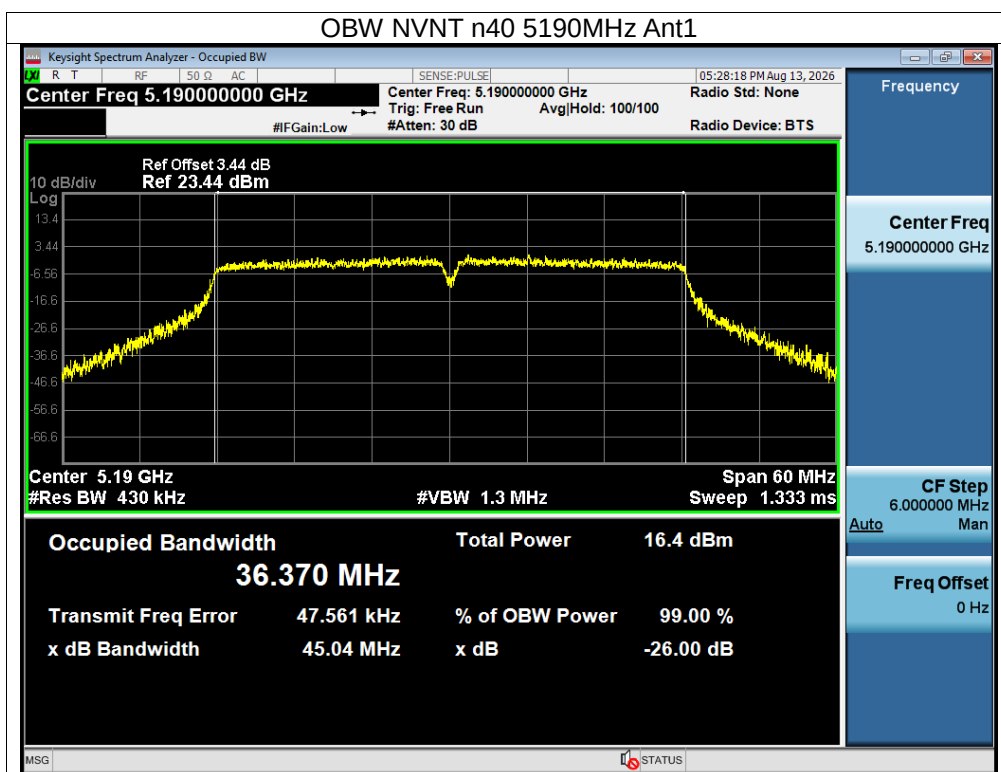


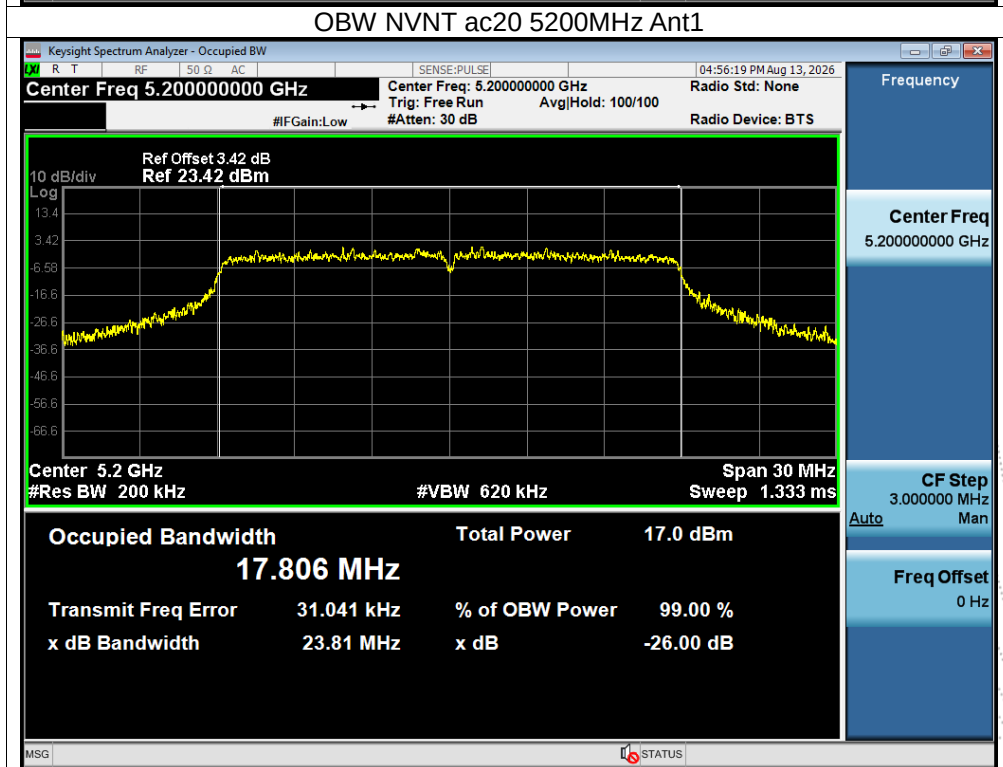
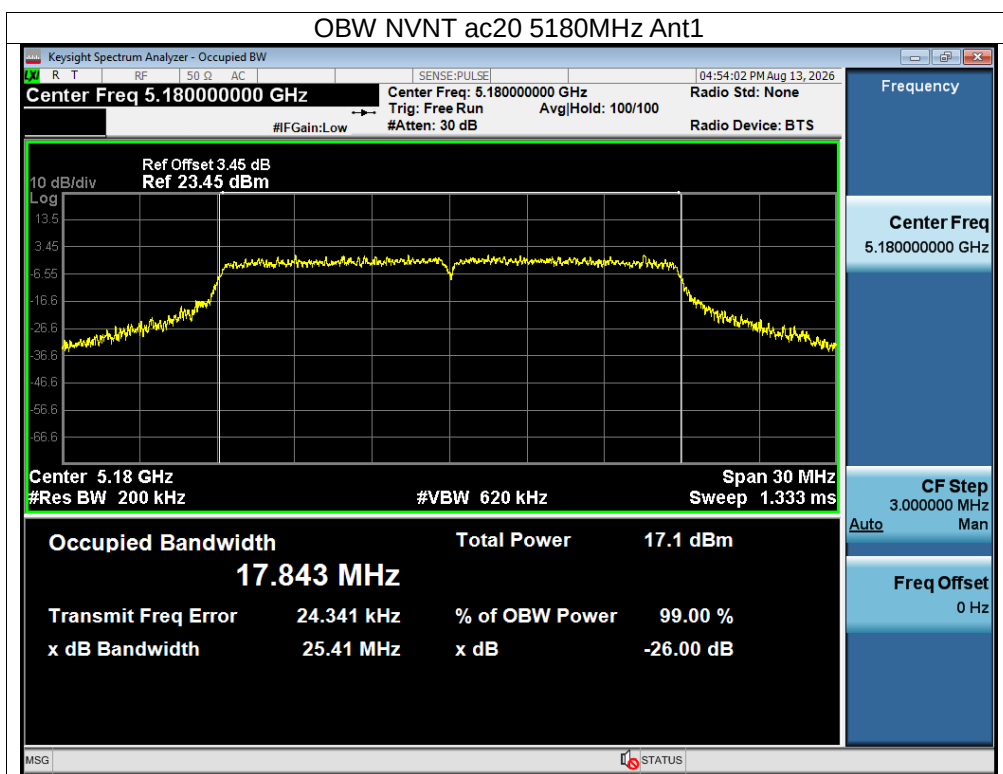


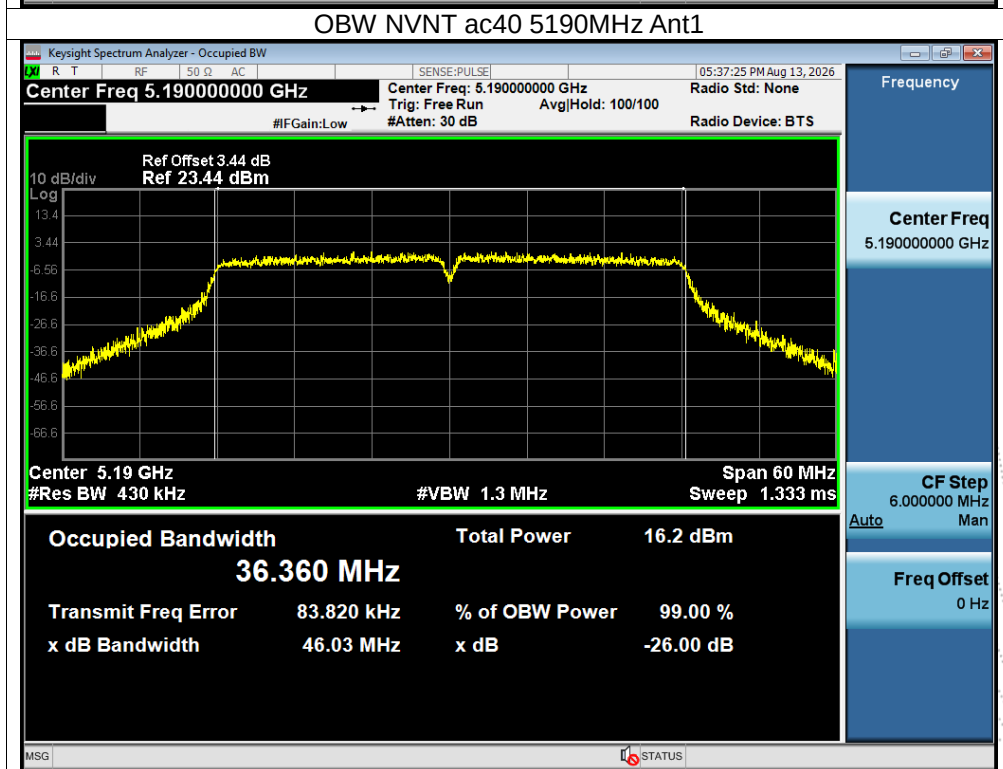
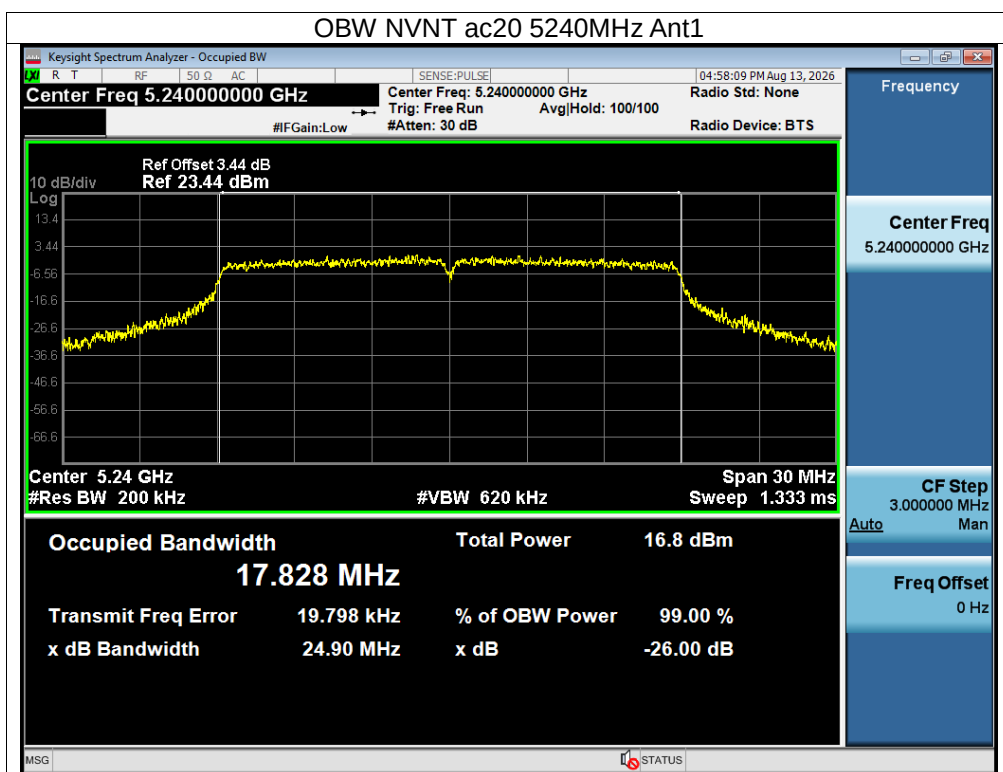
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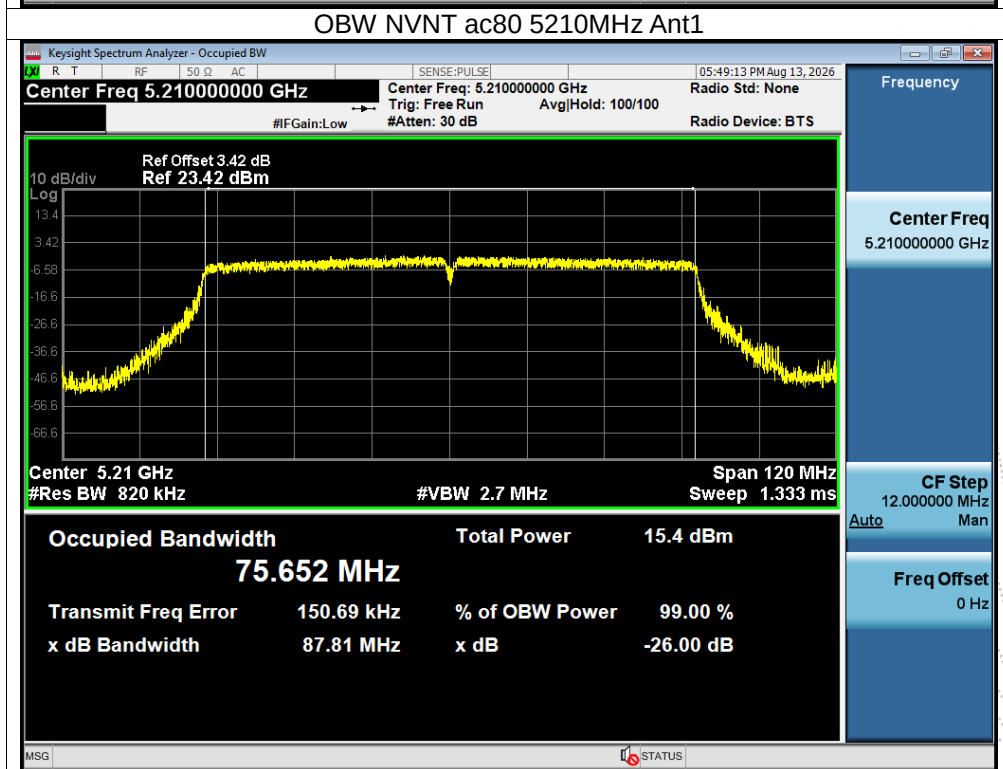
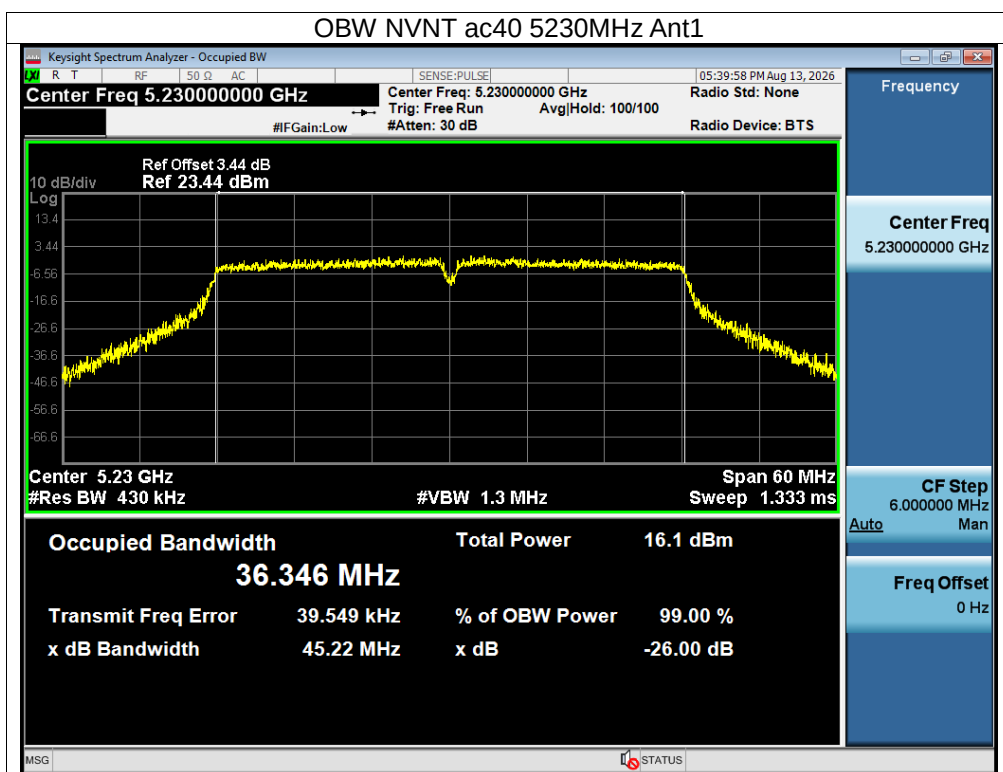




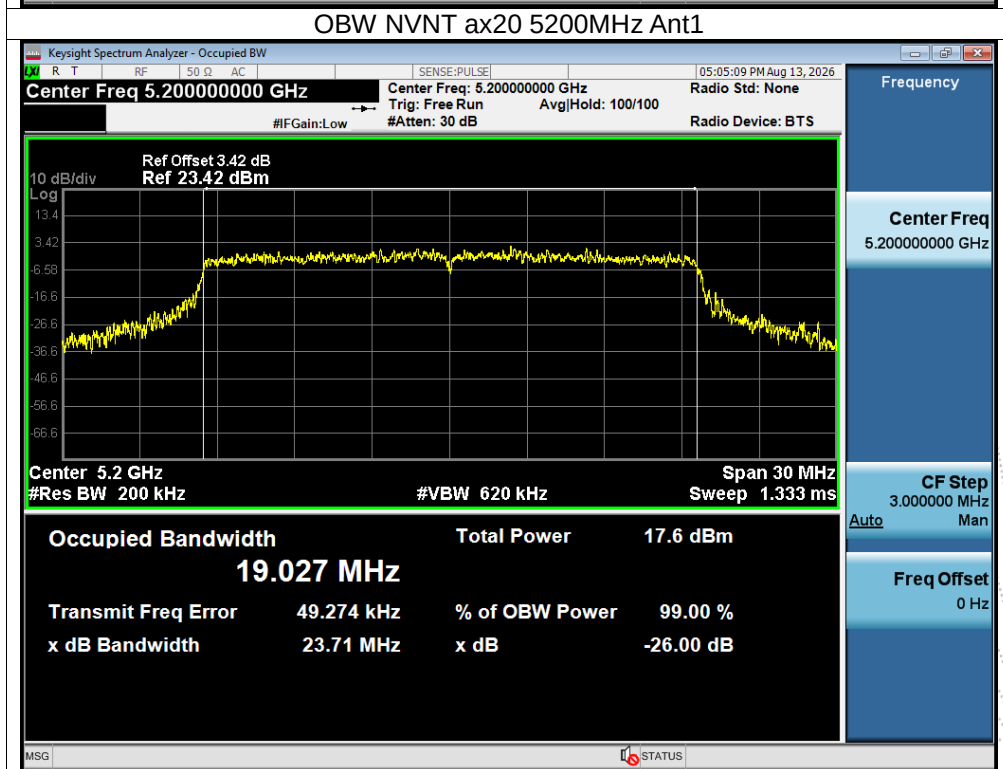
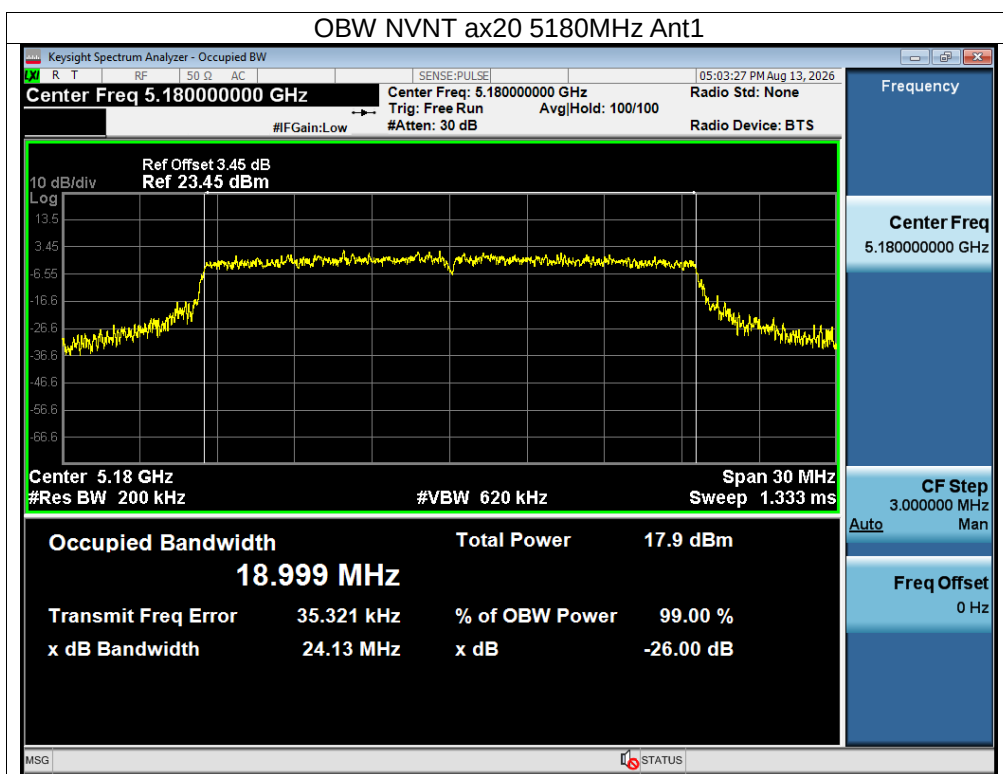


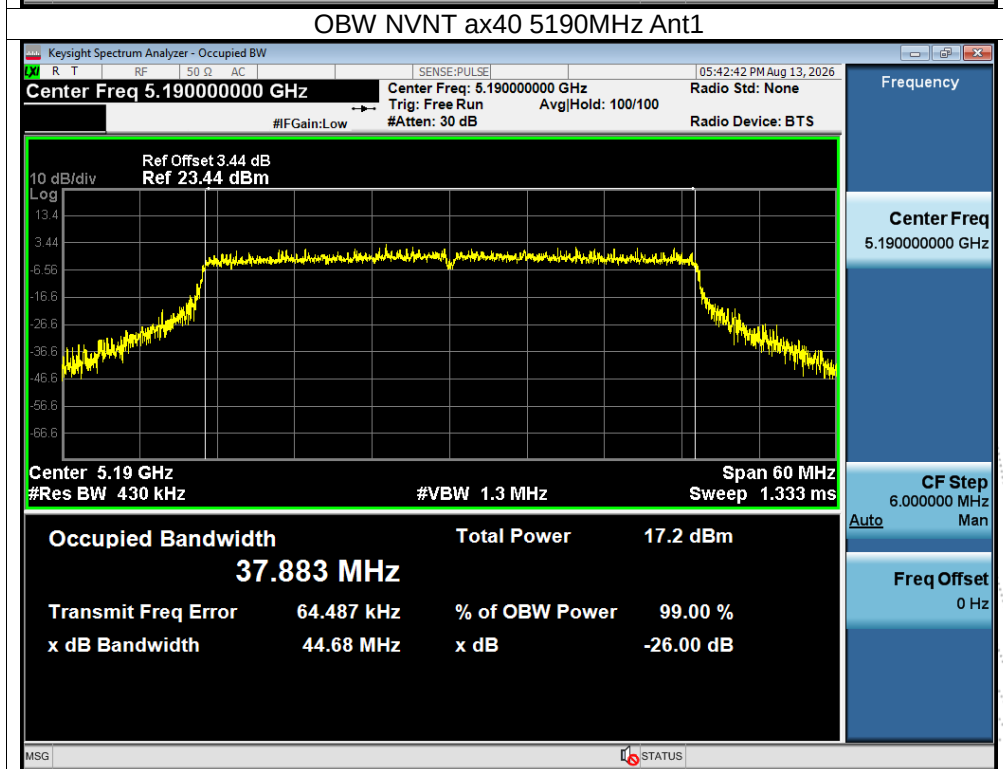
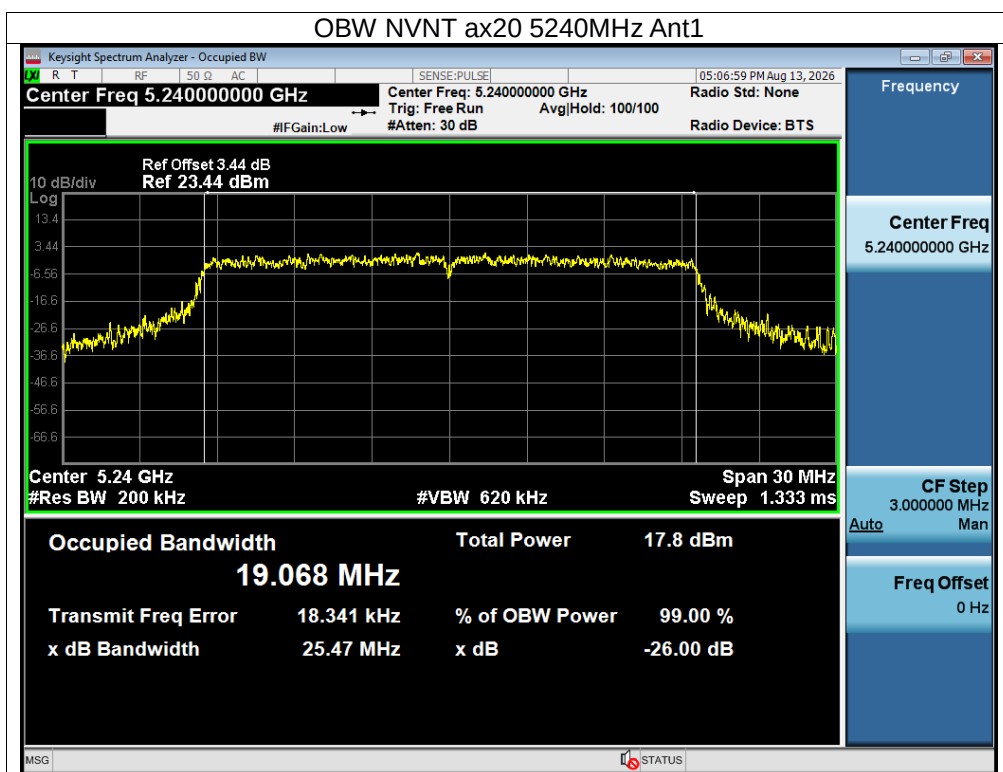


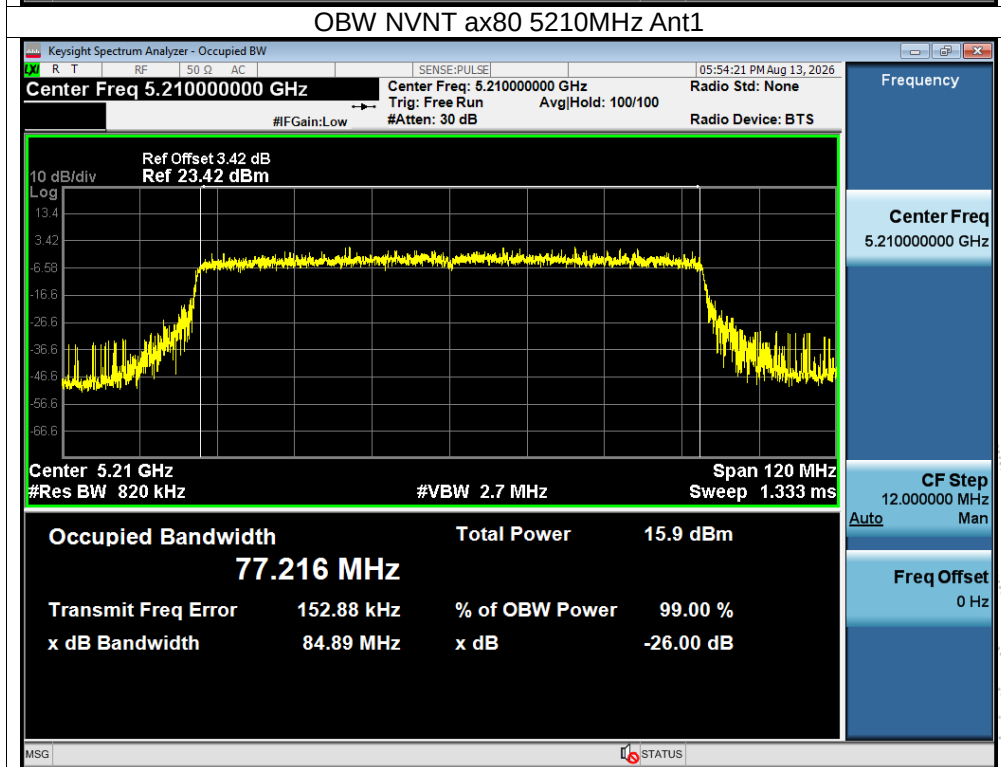
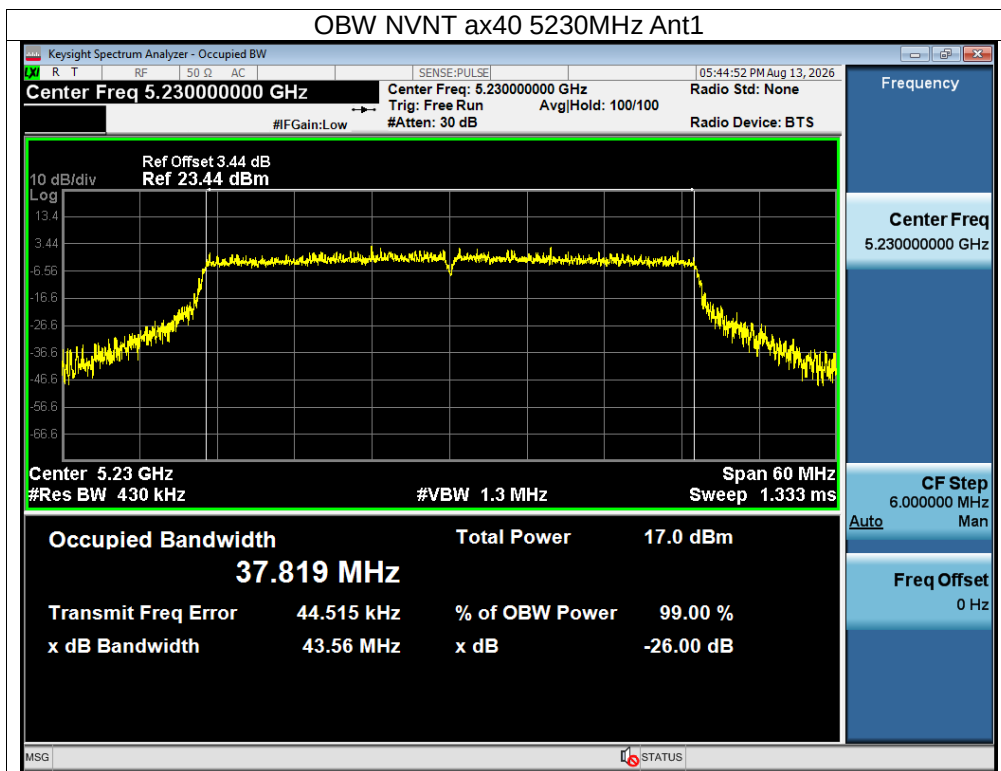




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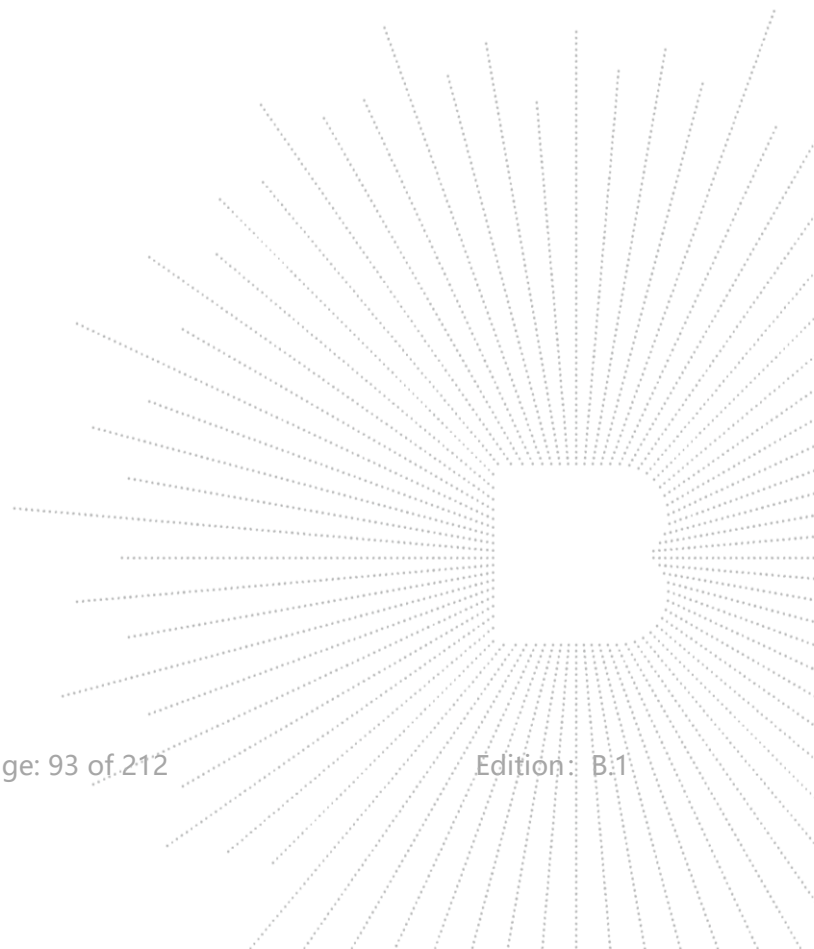




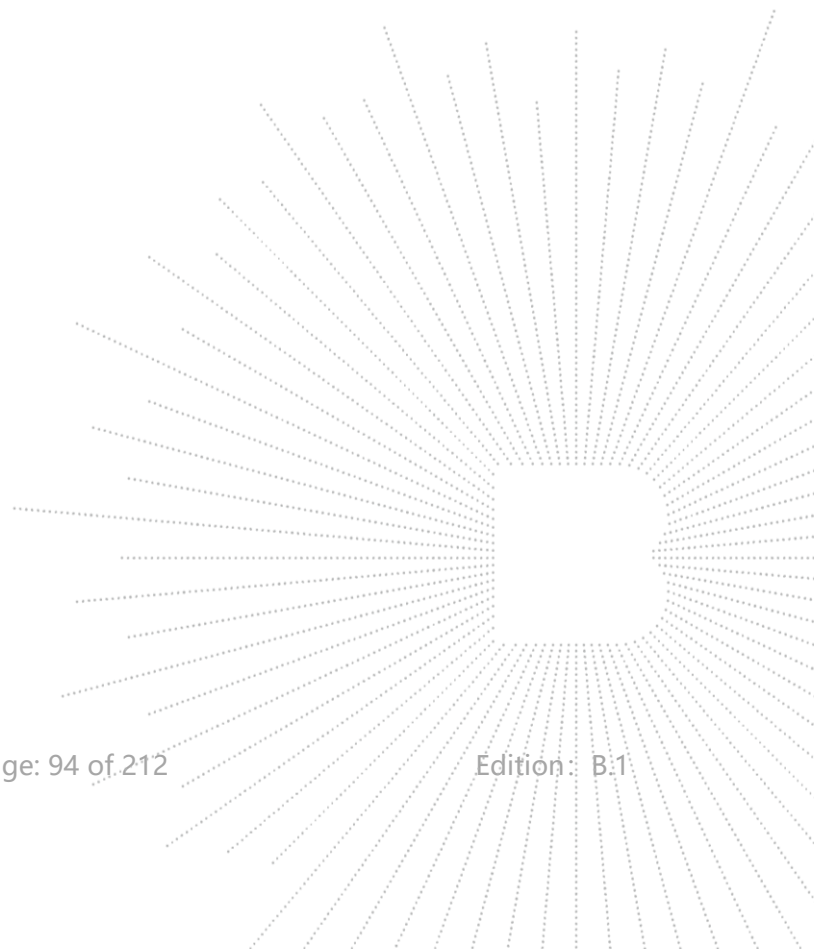
Temperature:	23.2 °C	Relative Humidity:	51%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	(5745-5825MHz)		

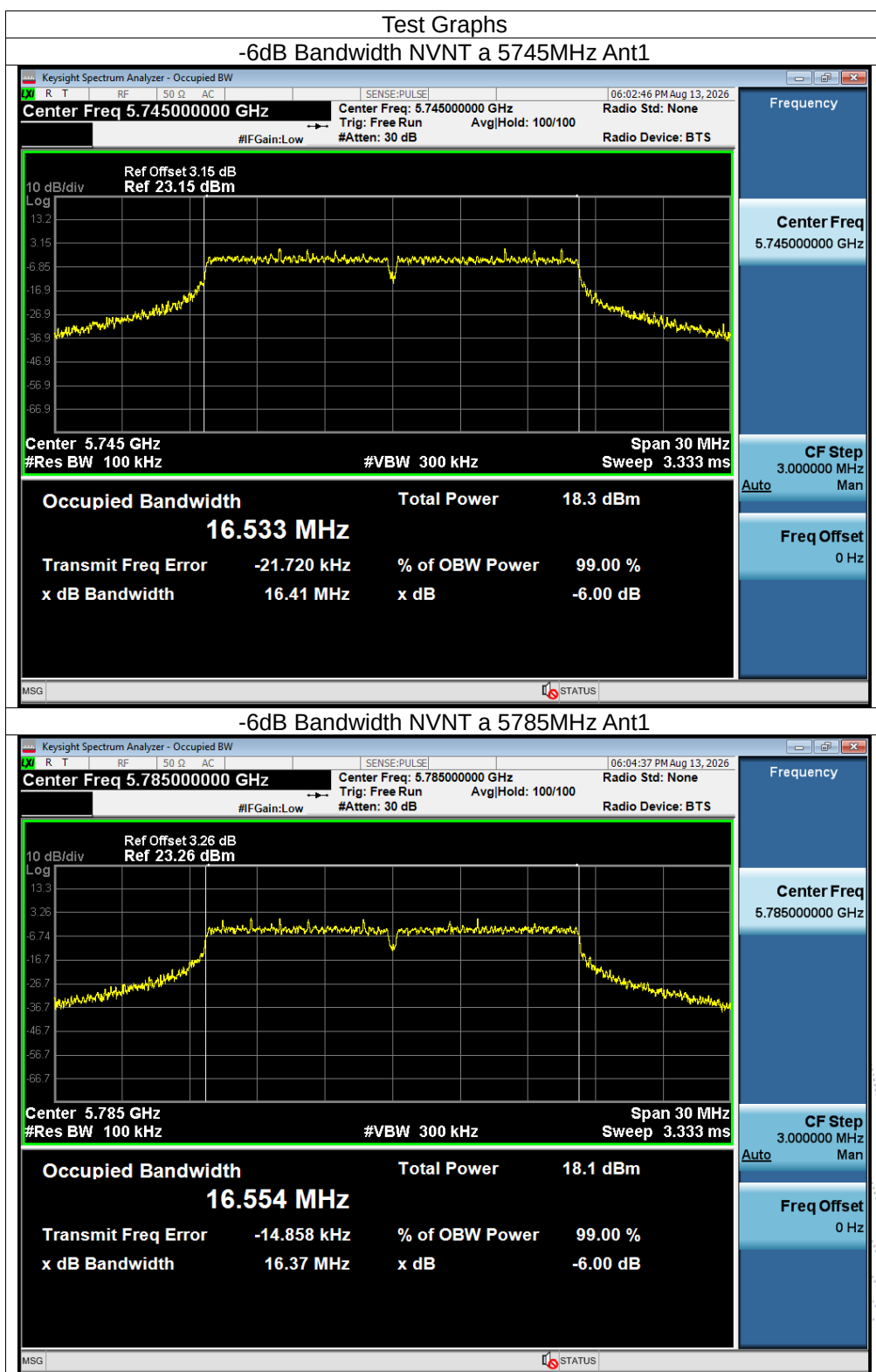
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	16.412	0.5	Pass
NVNT	a	5785	16.37	0.5	Pass
NVNT	a	5825	16.354	0.5	Pass
NVNT	n20	5745	17.618	0.5	Pass
NVNT	n20	5785	17.595	0.5	Pass
NVNT	n20	5825	17.604	0.5	Pass
NVNT	n40	5755	36.355	0.5	Pass
NVNT	n40	5795	36.335	0.5	Pass
NVNT	ac20	5745	17.623	0.5	Pass
NVNT	ac20	5785	17.599	0.5	Pass
NVNT	ac20	5825	17.604	0.5	Pass
NVNT	ac40	5755	36.345	0.5	Pass
NVNT	ac40	5795	36.344	0.5	Pass
NVNT	ac80	5775	75.948	0.5	Pass
NVNT	ax20	5745	18.873	0.5	Pass
NVNT	ax20	5785	18.841	0.5	Pass
NVNT	ax20	5825	18.938	0.5	Pass
NVNT	ax40	5755	38.07	0.5	Pass
NVNT	ax40	5795	38.043	0.5	Pass
NVNT	ax80	5775	77.303	0.5	Pass

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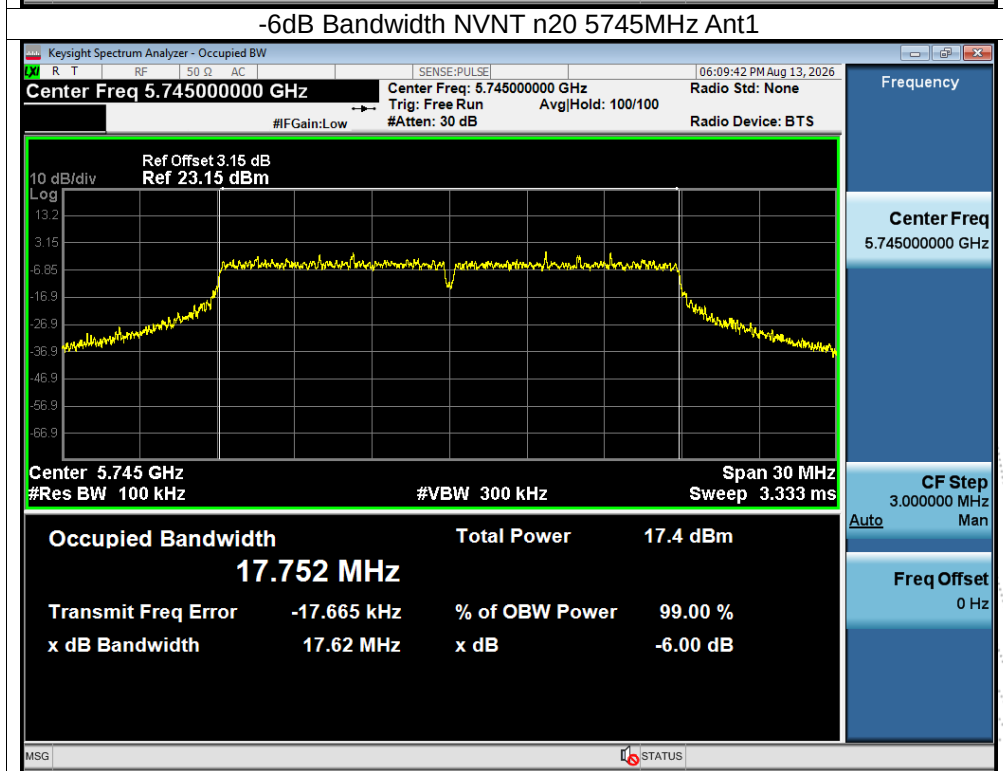
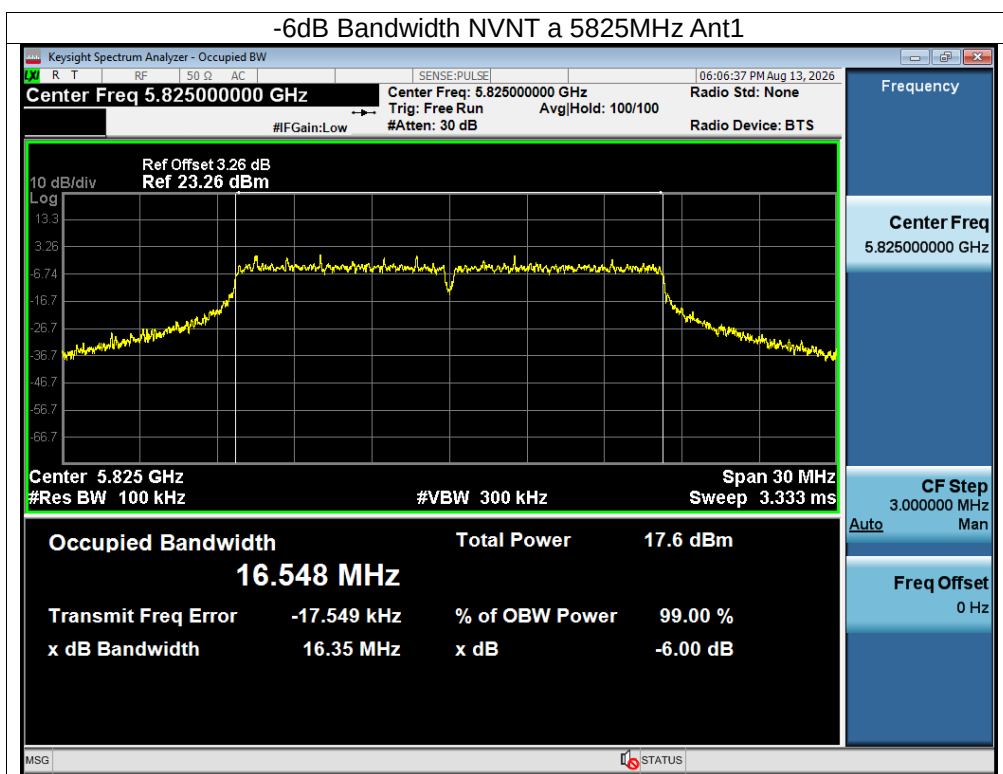


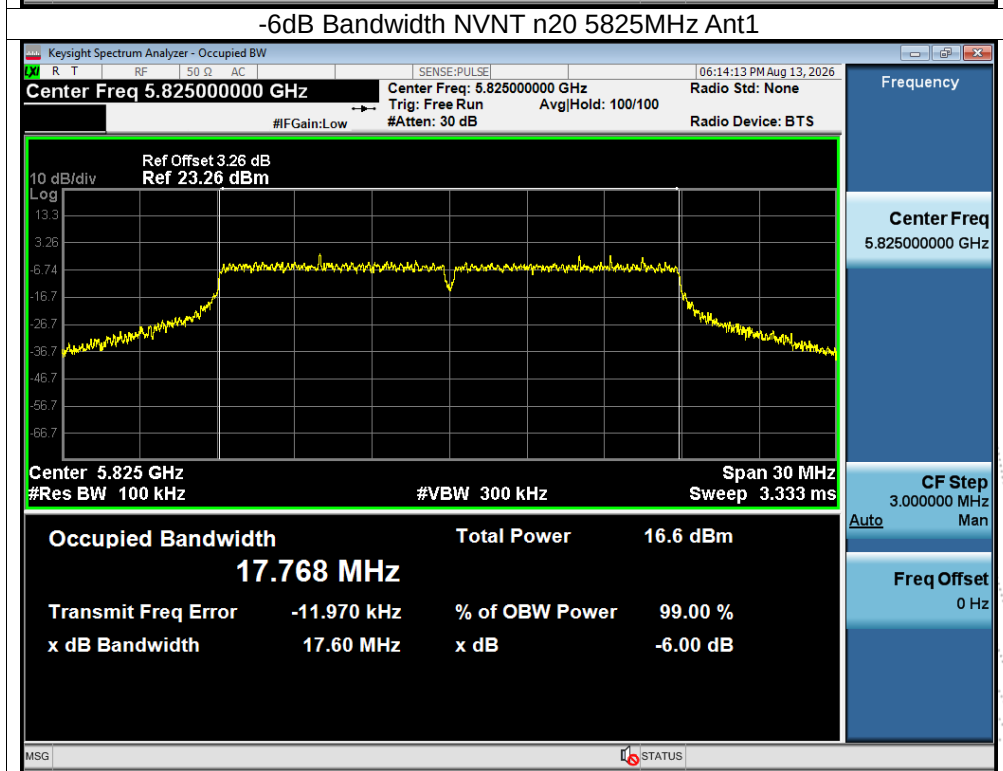
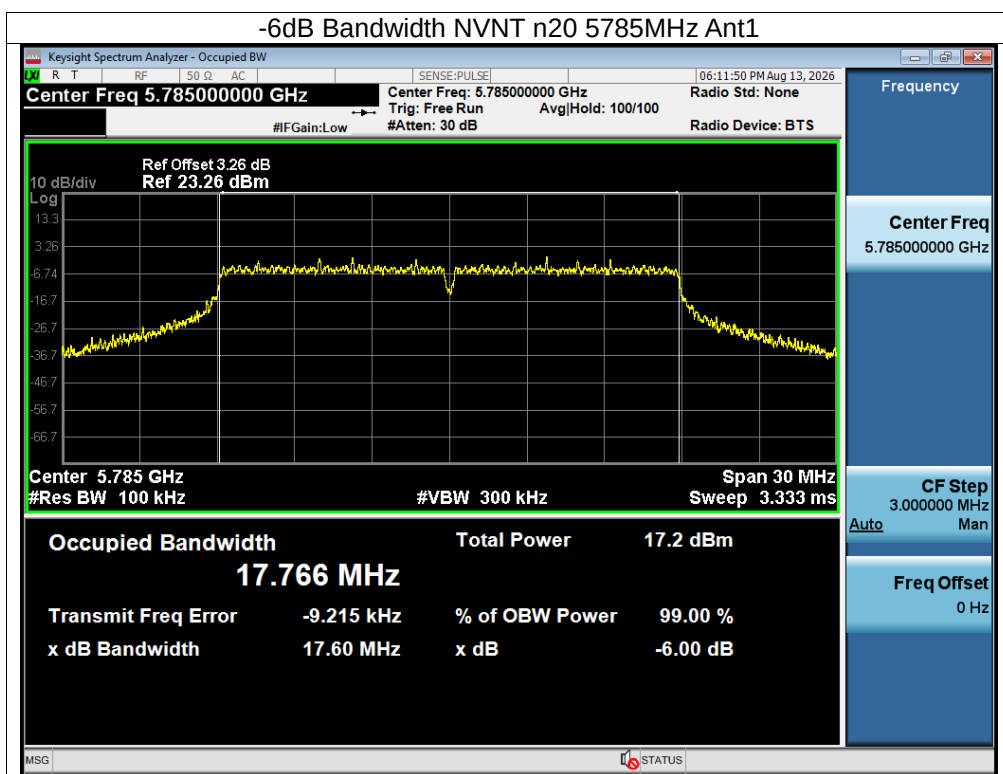
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5745	16.763
NVNT	a	5785	16.764
NVNT	a	5825	16.744
NVNT	n20	5745	17.93
NVNT	n20	5785	17.934
NVNT	n20	5825	17.96
NVNT	n40	5755	36.587
NVNT	n40	5795	36.578
NVNT	ac20	5745	17.935
NVNT	ac20	5785	17.958
NVNT	ac20	5825	17.915
NVNT	ac40	5755	36.673
NVNT	ac40	5795	36.527
NVNT	ac80	5775	75.964
NVNT	ax20	5745	19.081
NVNT	ax20	5785	19.14
NVNT	ax20	5825	19.147
NVNT	ax40	5755	37.986
NVNT	ax40	5795	38.02
NVNT	ax80	5775	77.586

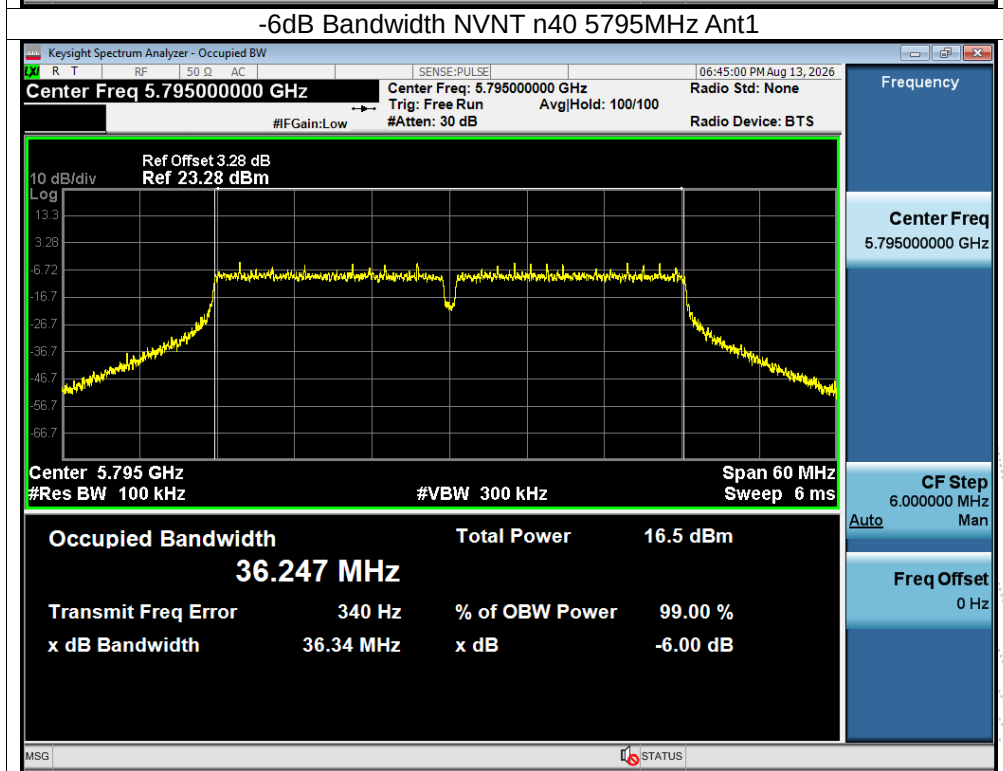
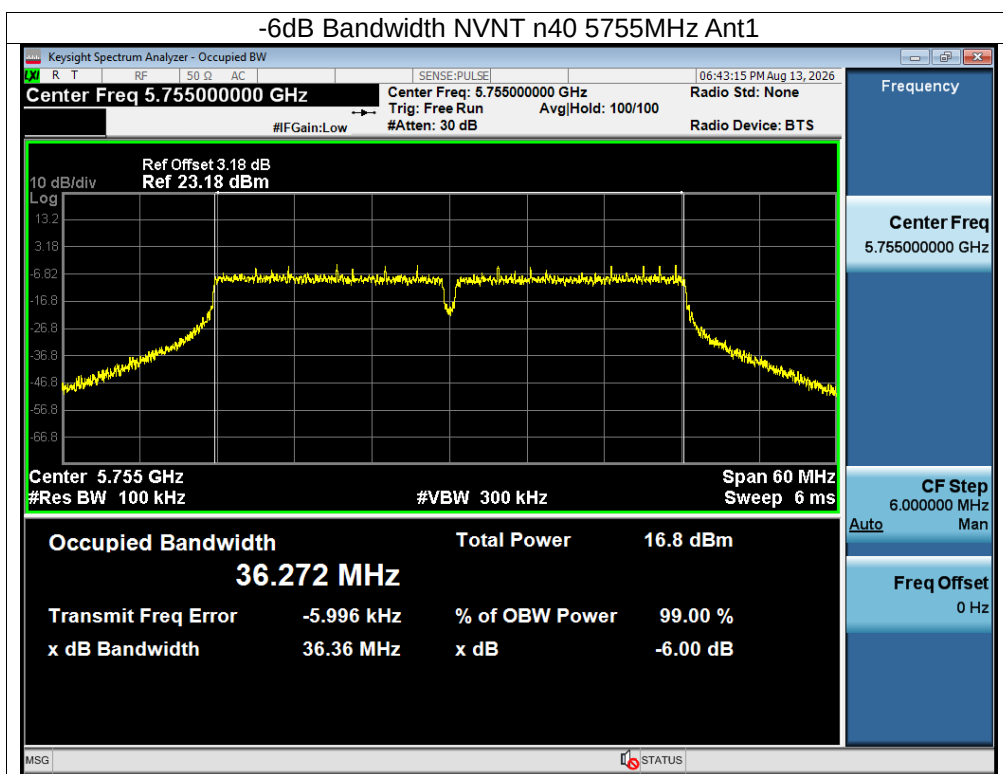


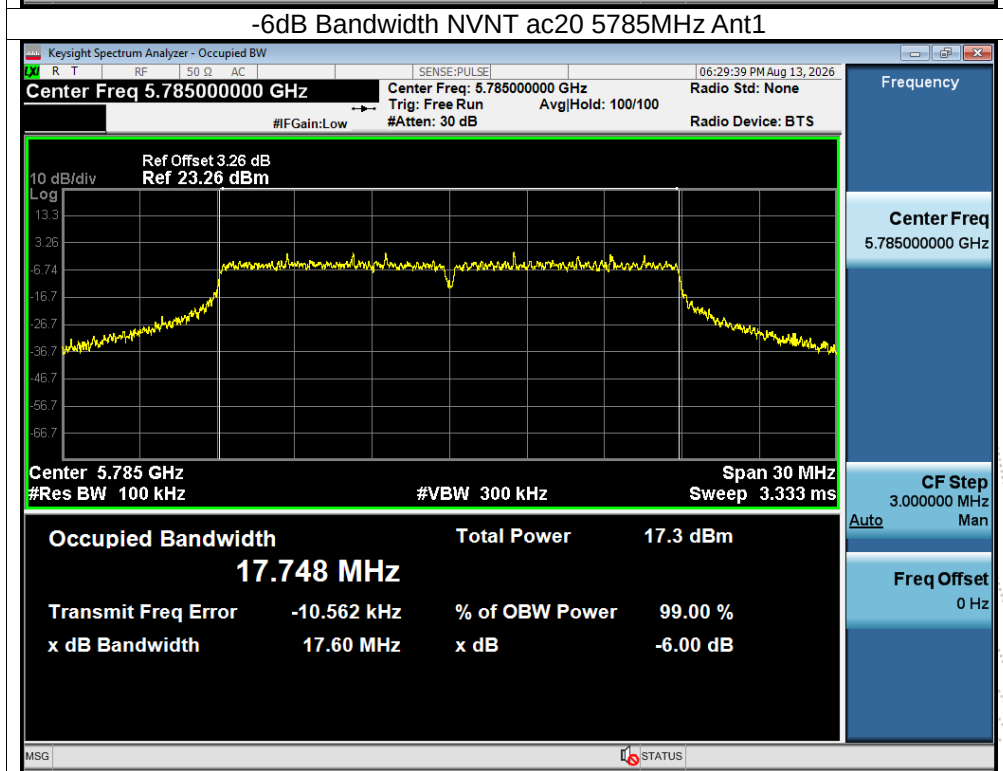
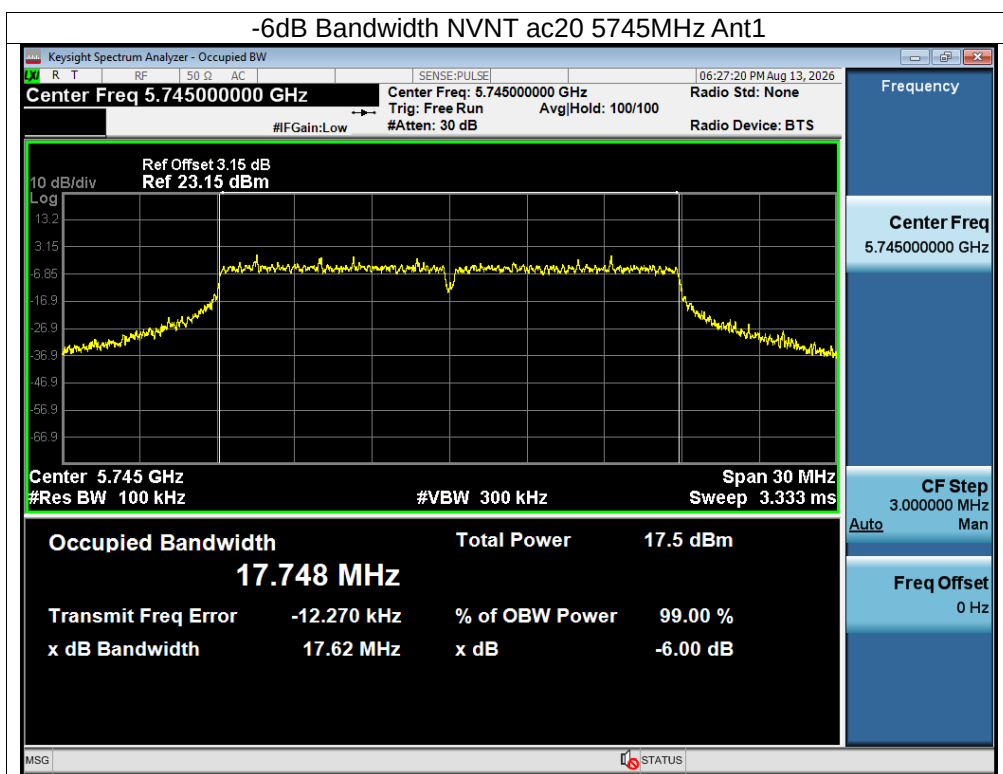


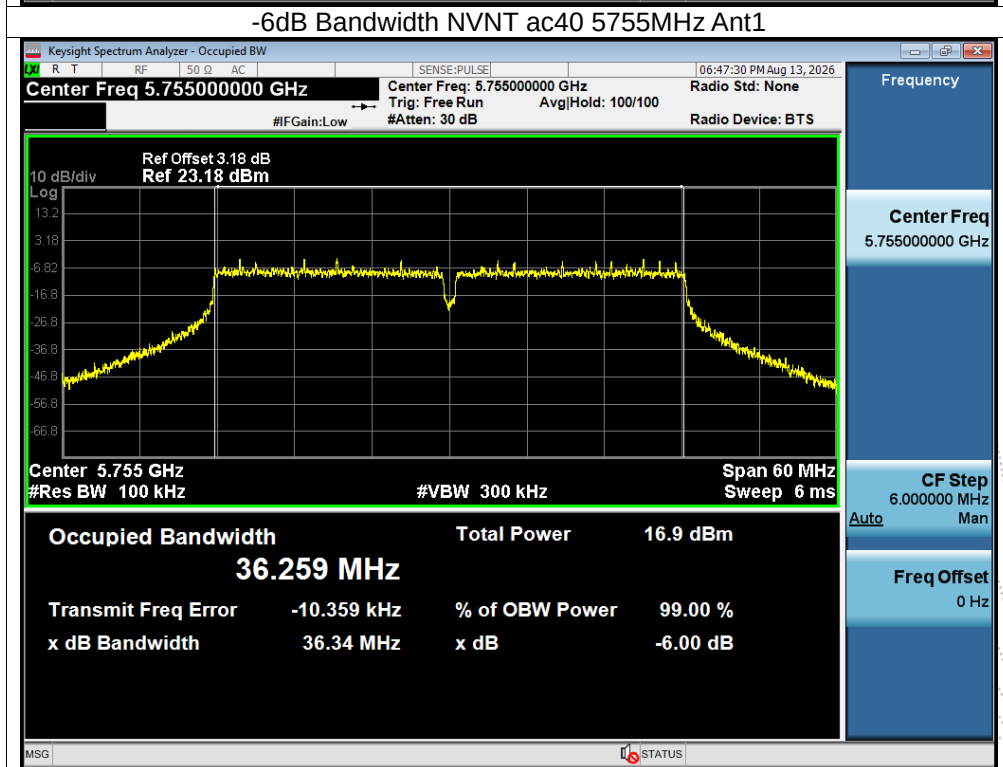
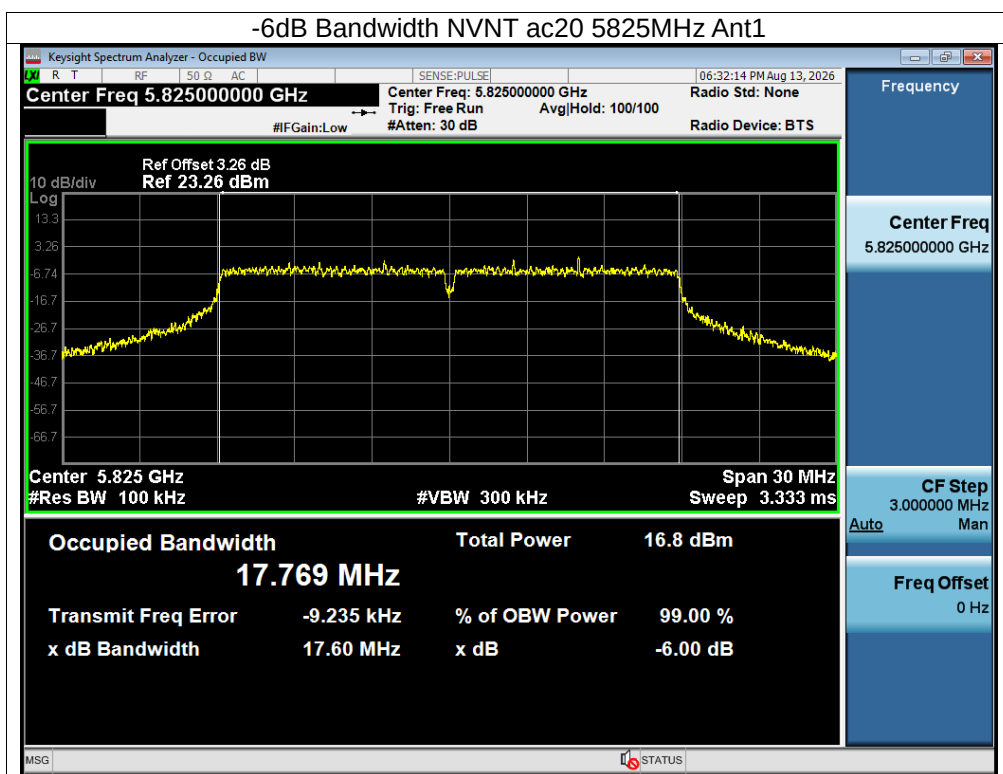
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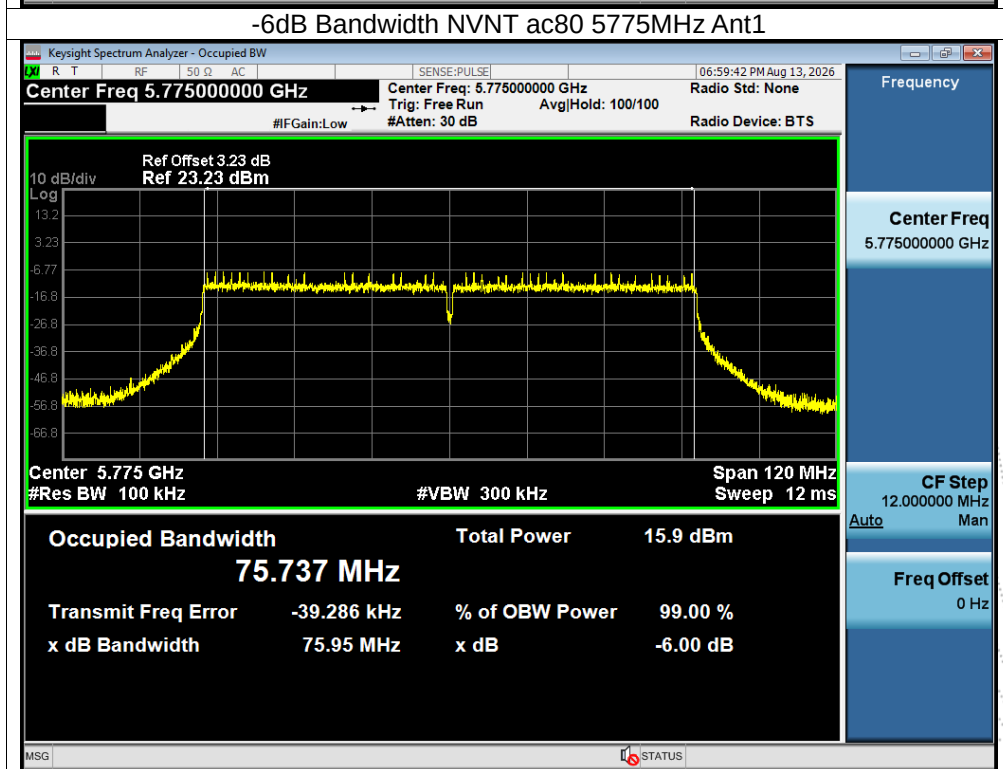
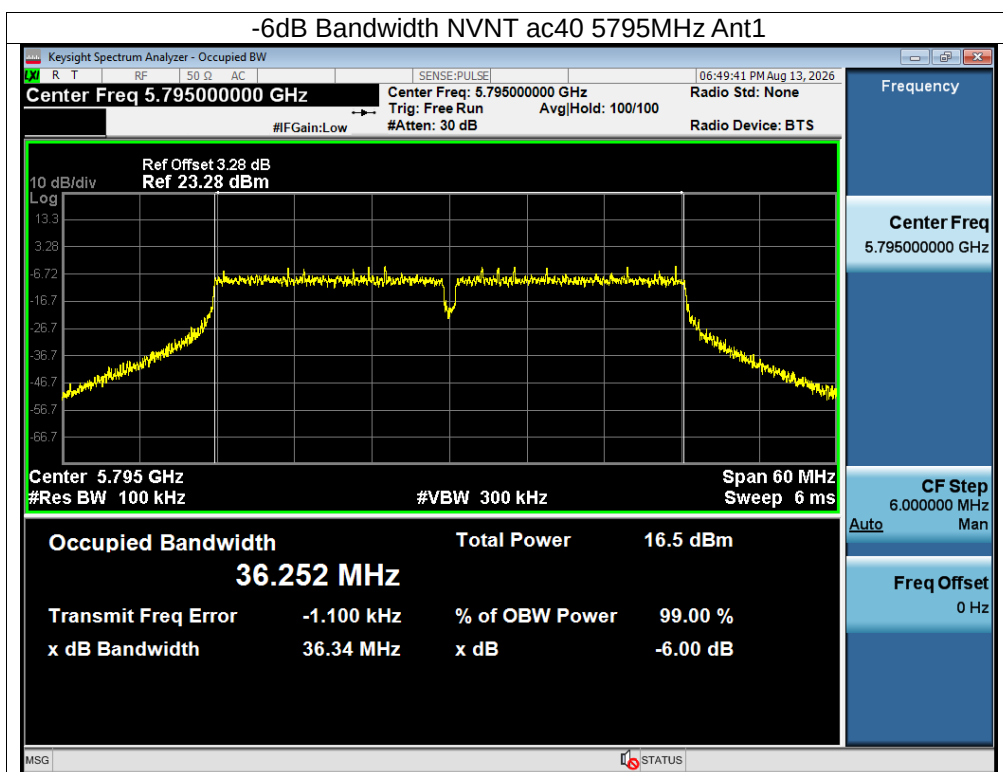












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