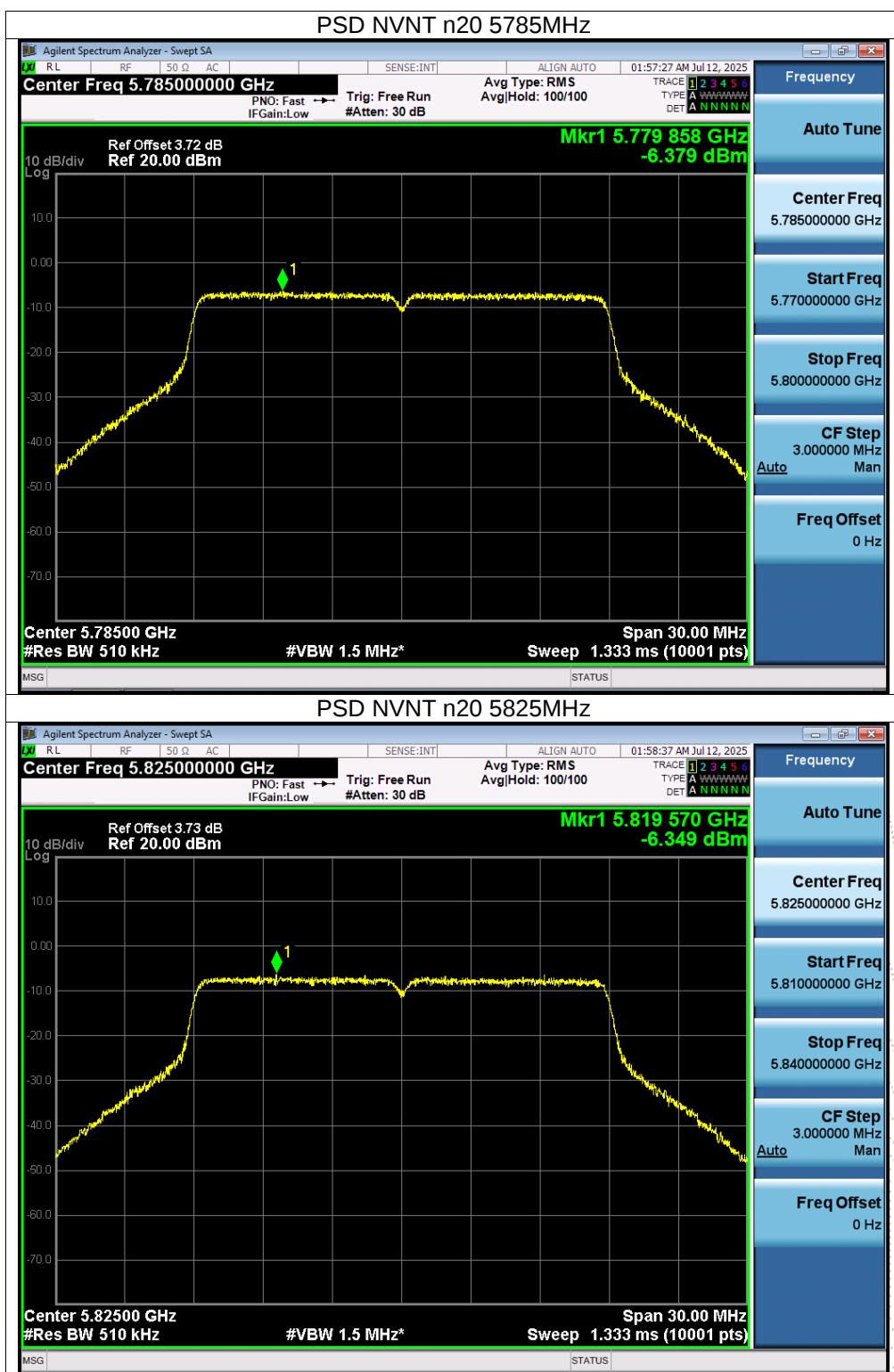
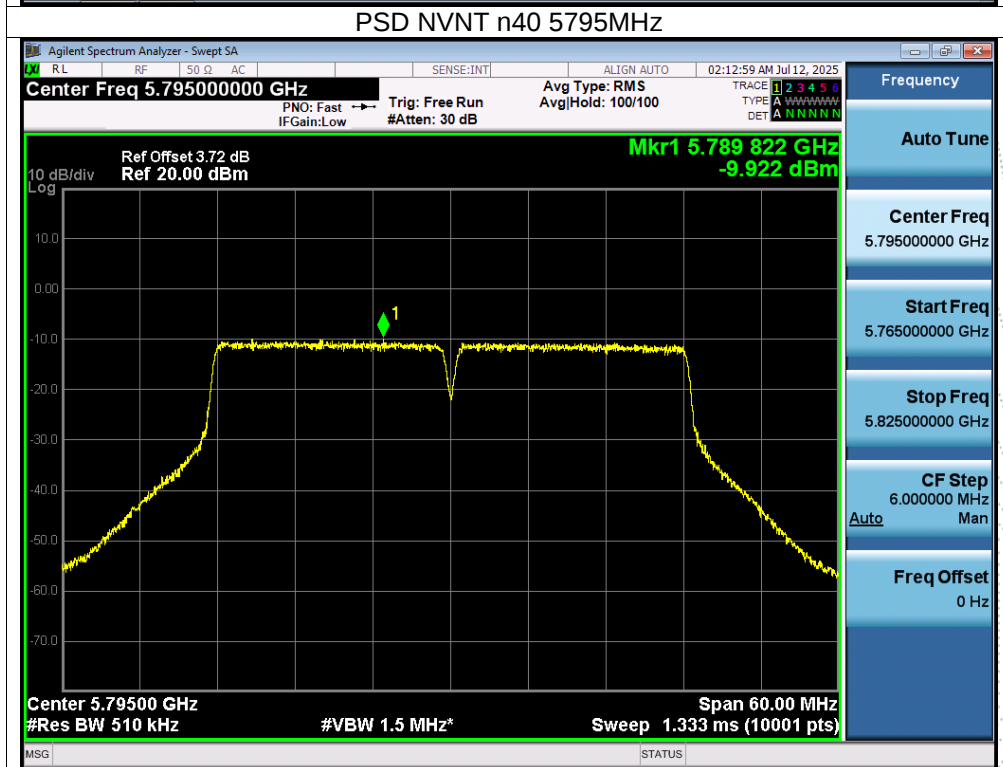
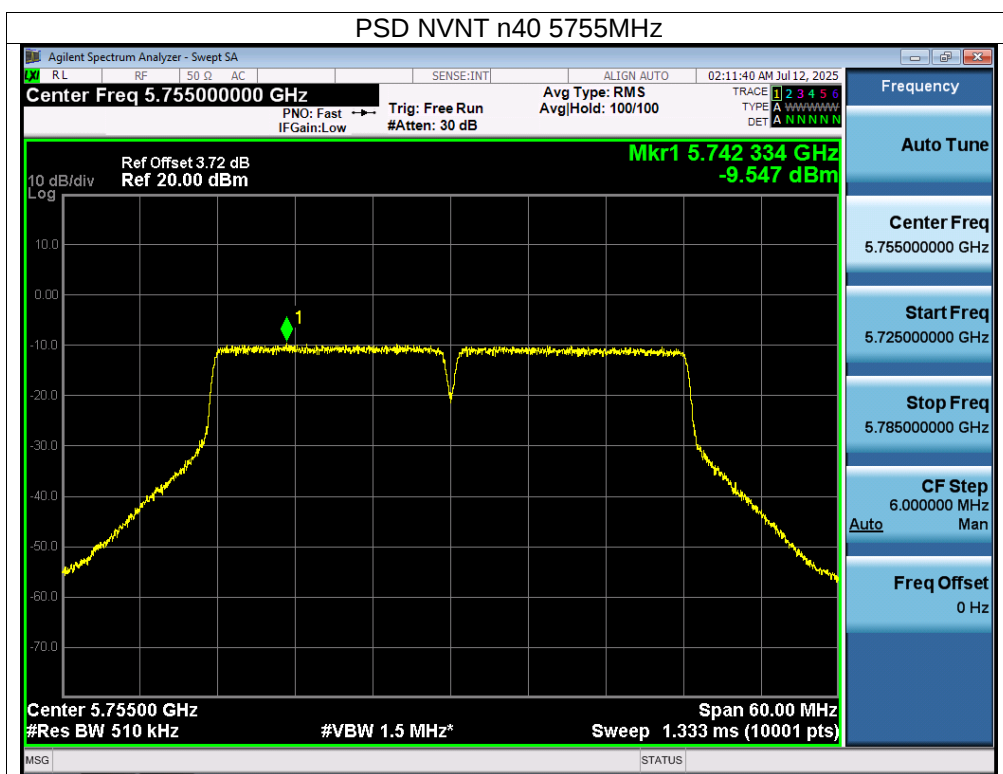
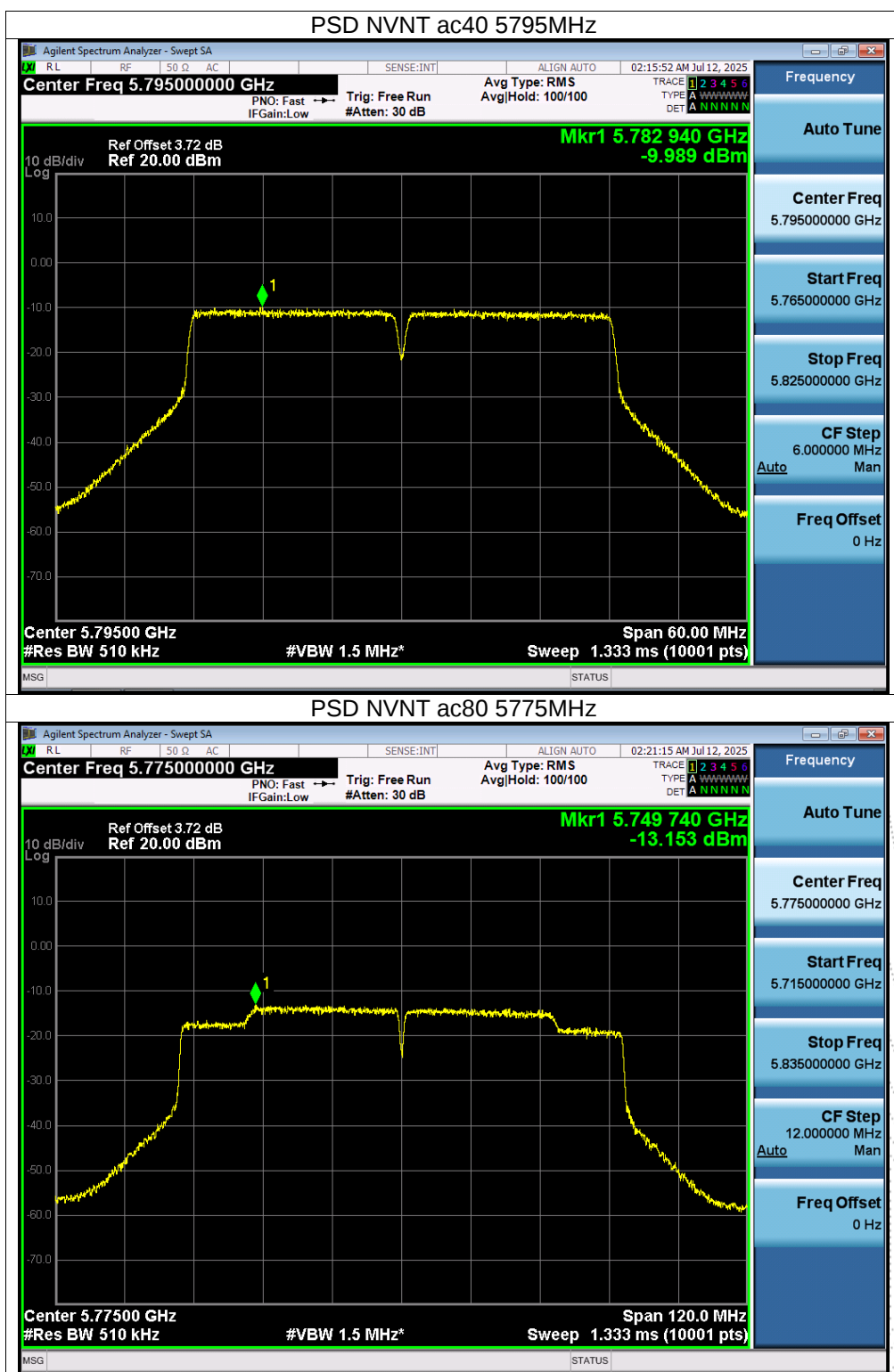


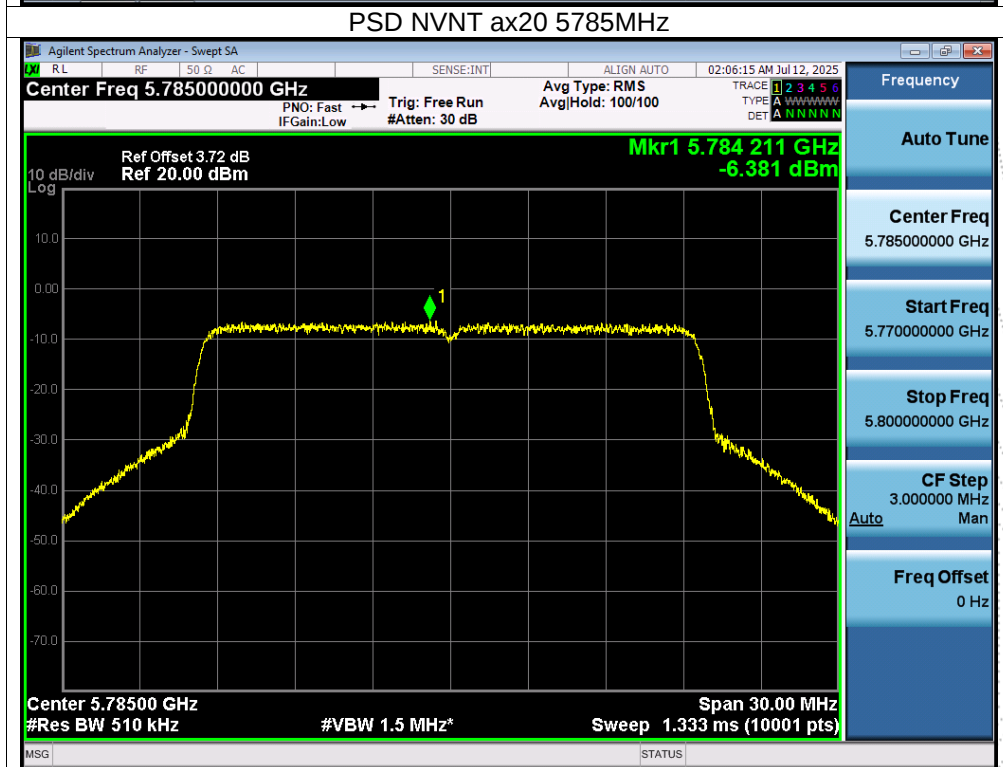
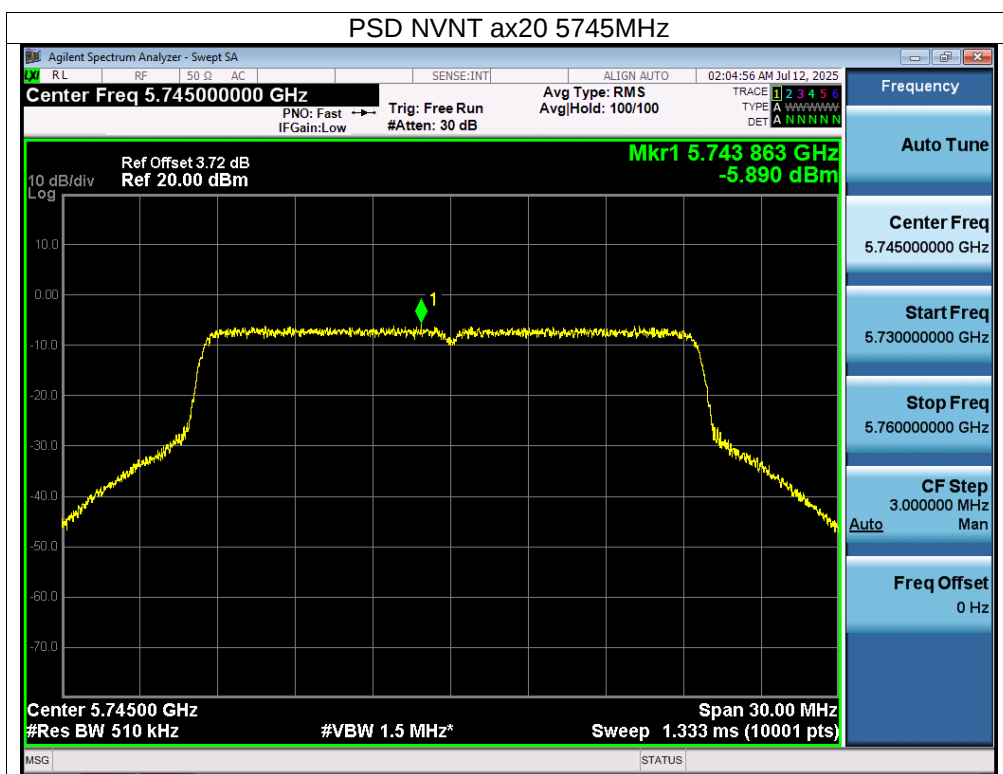


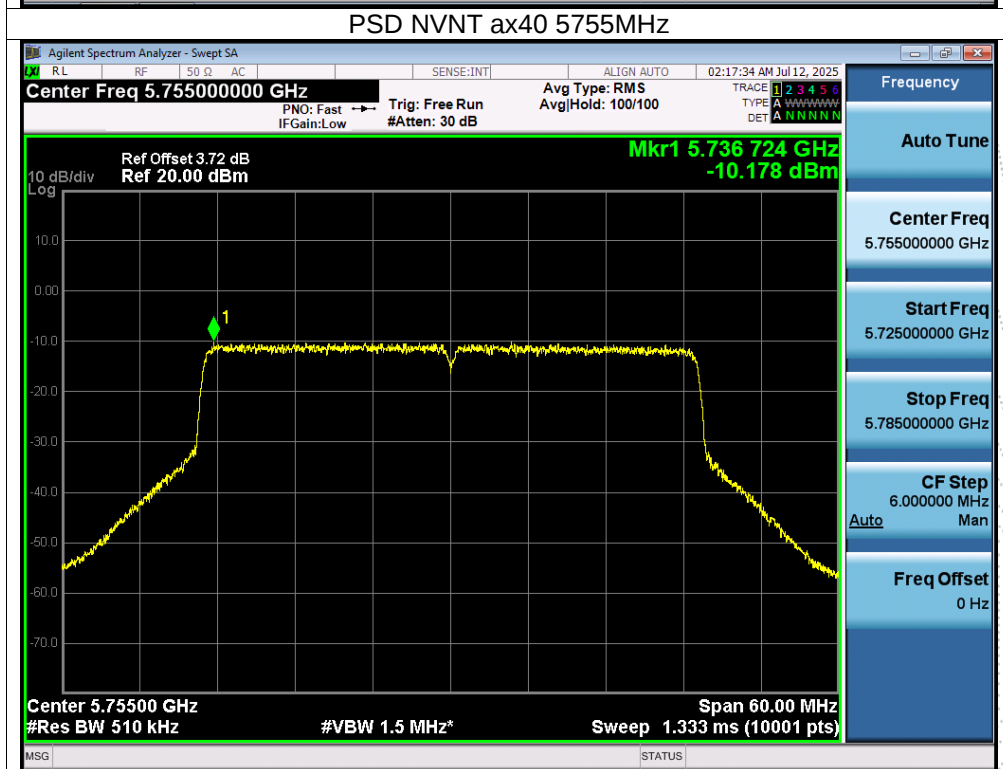
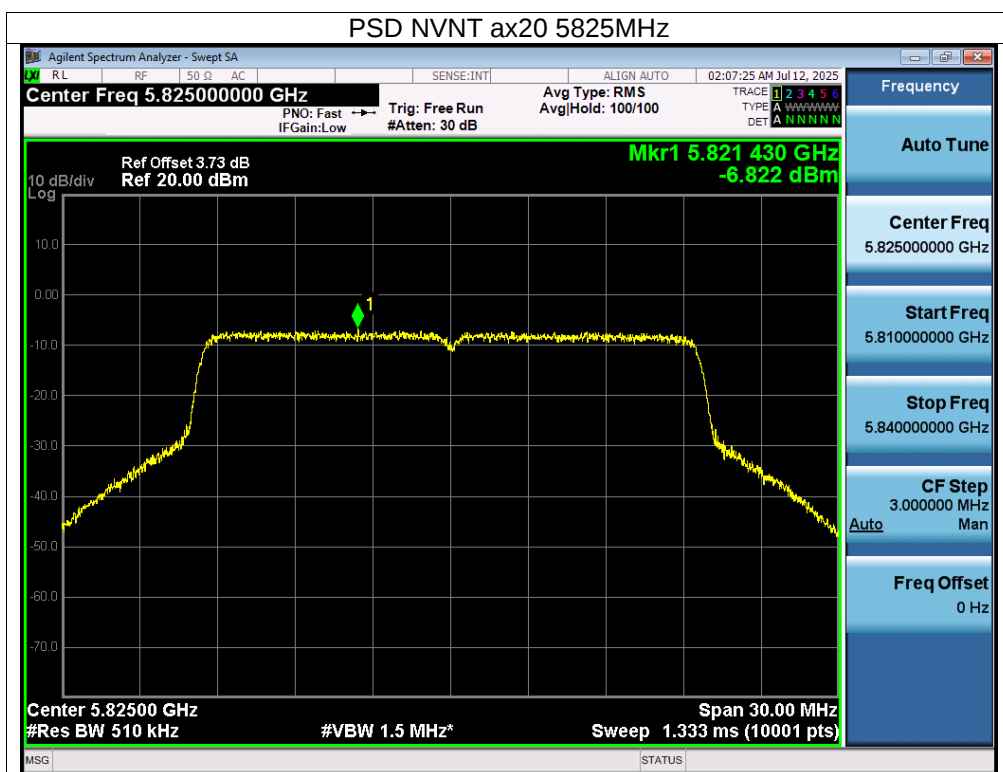


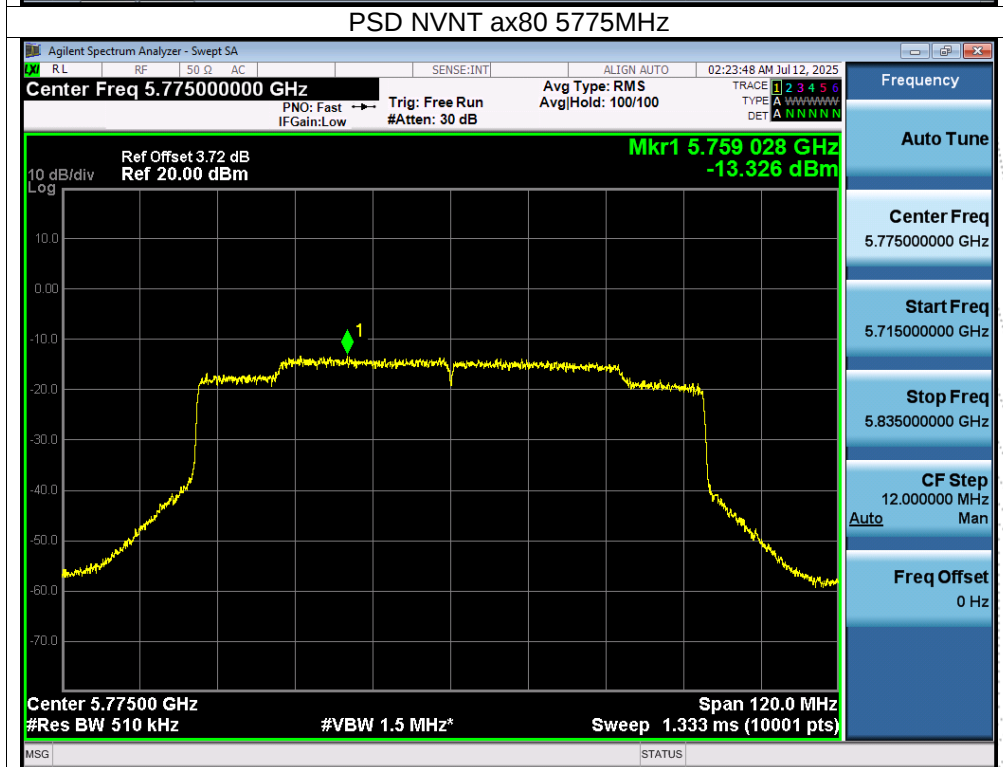
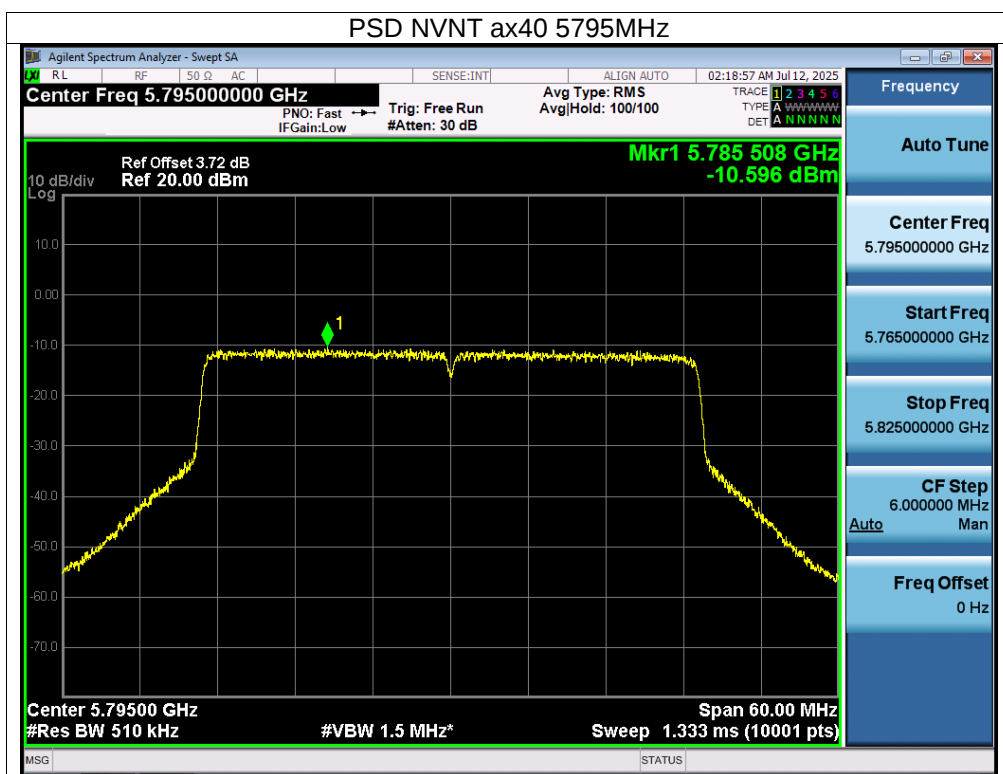






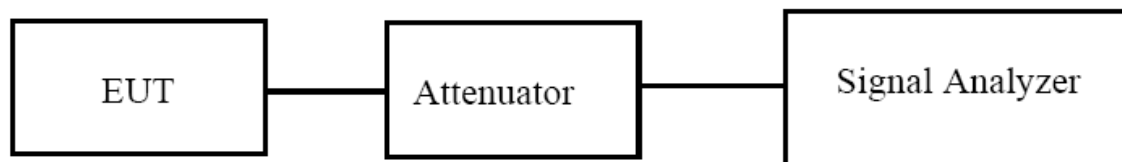






9. 26dB & 6dB & 99% Emission Bandwidth

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.
(6dB bandwidth)>500kHz

9.3 Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1 % to 5 % of the OBW
- Set $VBW \geq 3 \cdot RBW$
- 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.
- Use the 99 % power bandwidth function of the instrument (if available).
- 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.

6dB

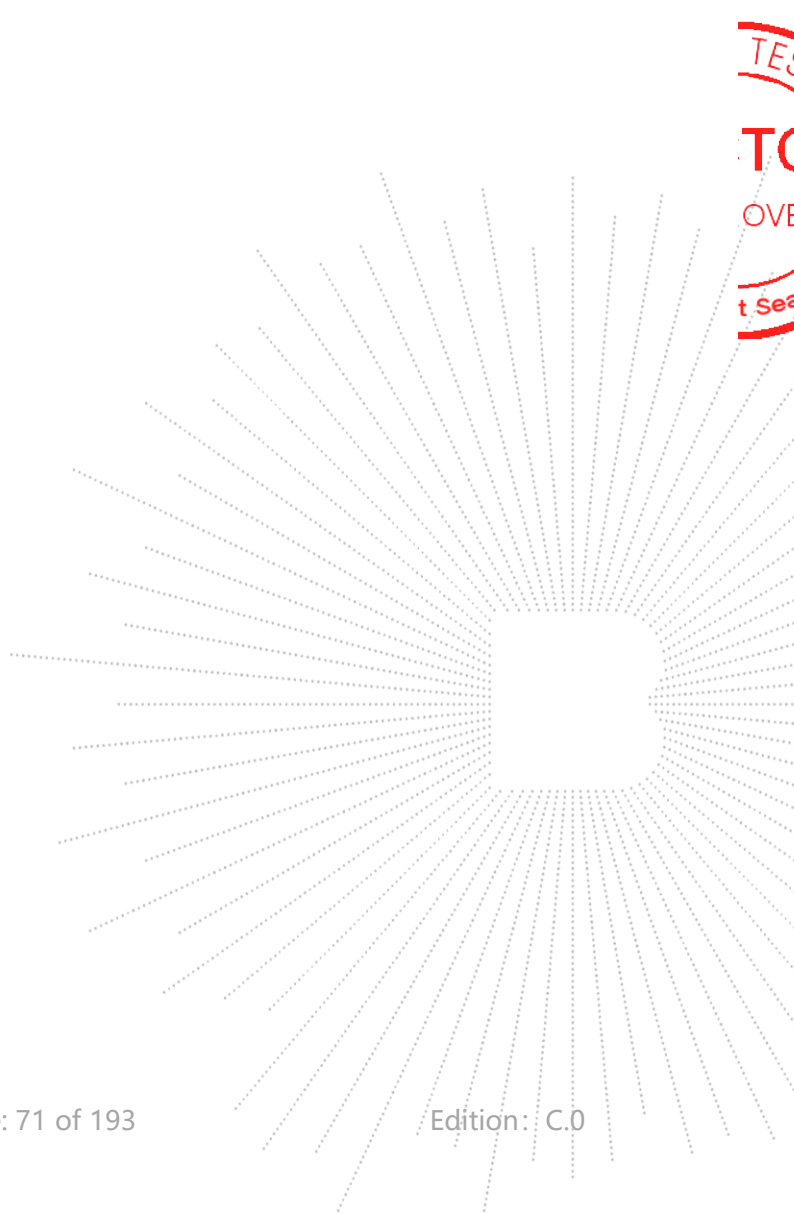
- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.

6. Allow the trace to stabilize.

7. 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.

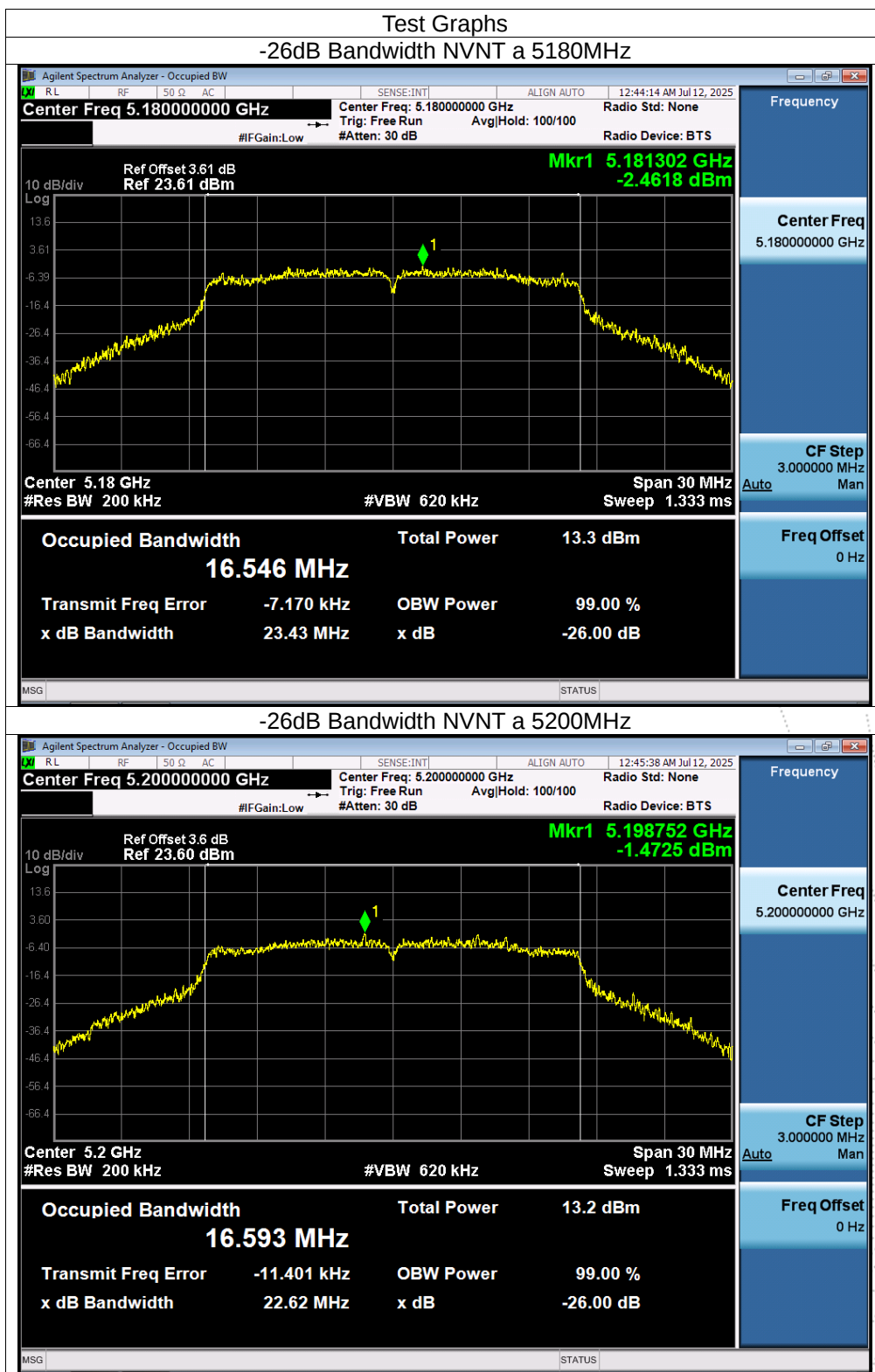


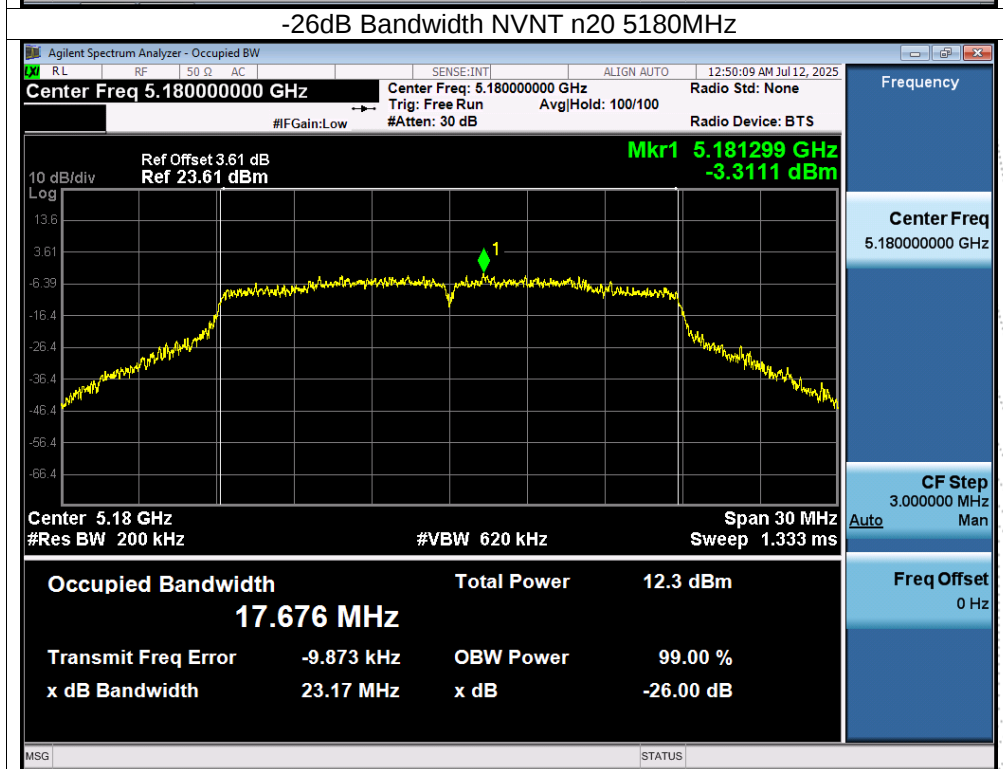
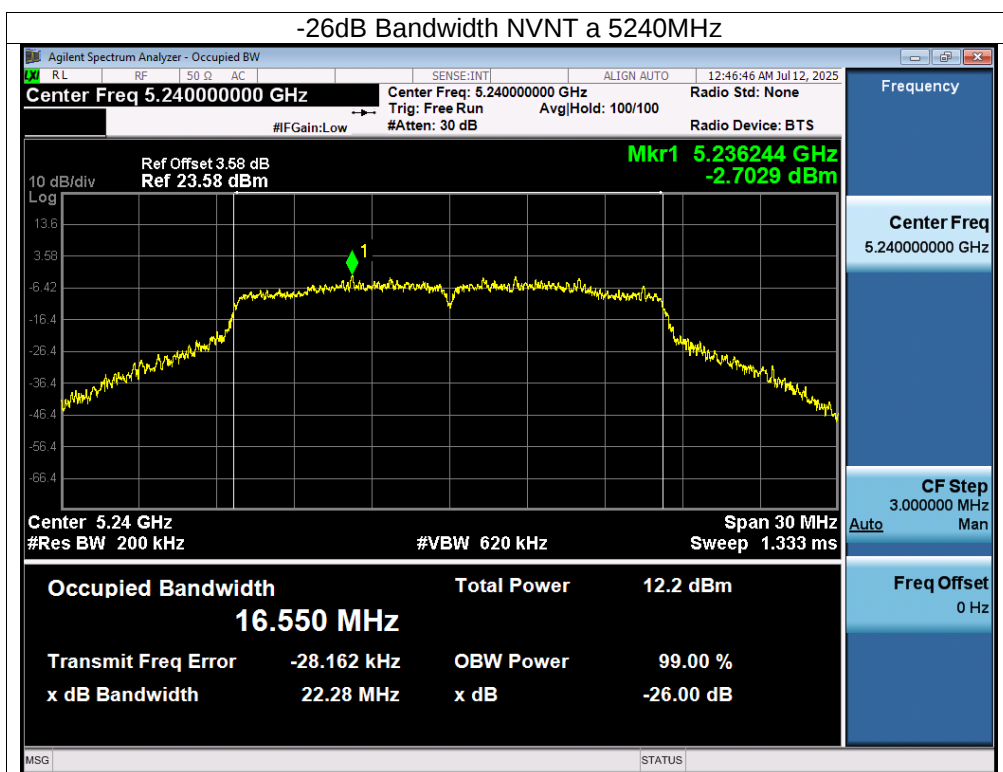
9.5 Test Result

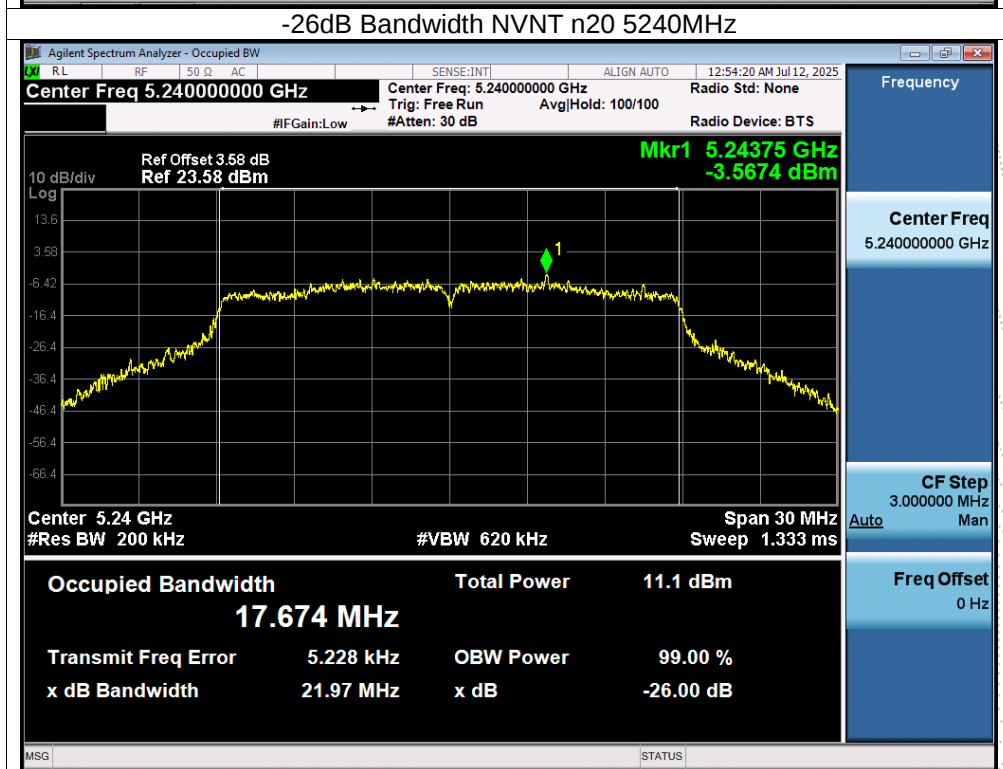
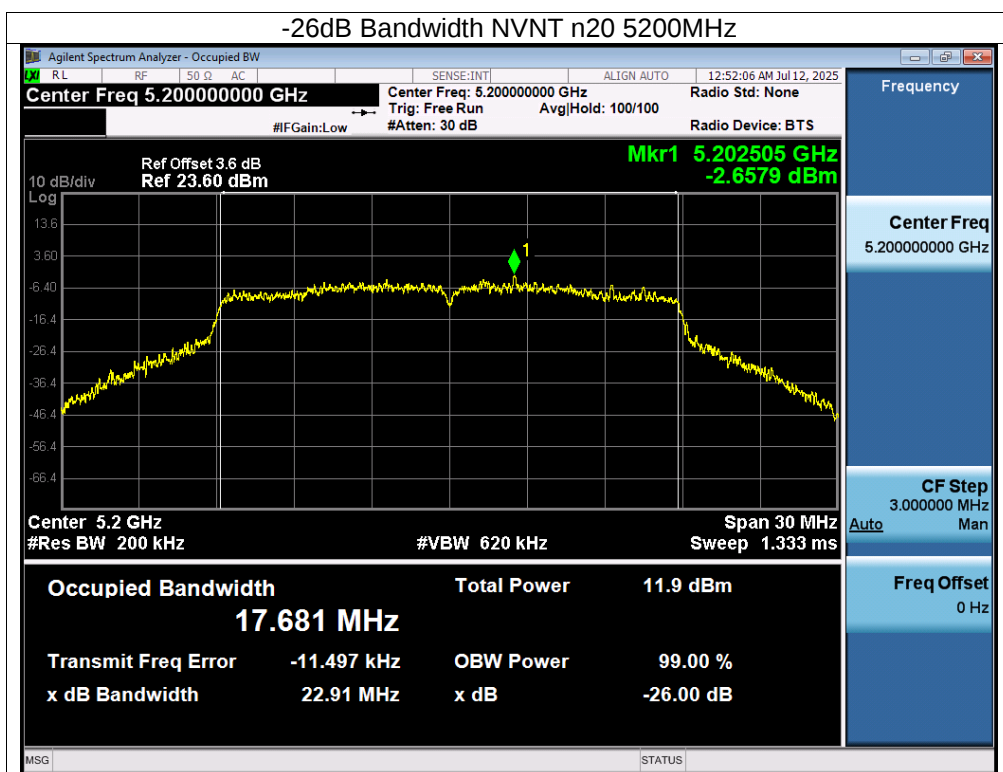
Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101kPa	Test Voltage:	DC 11.4V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

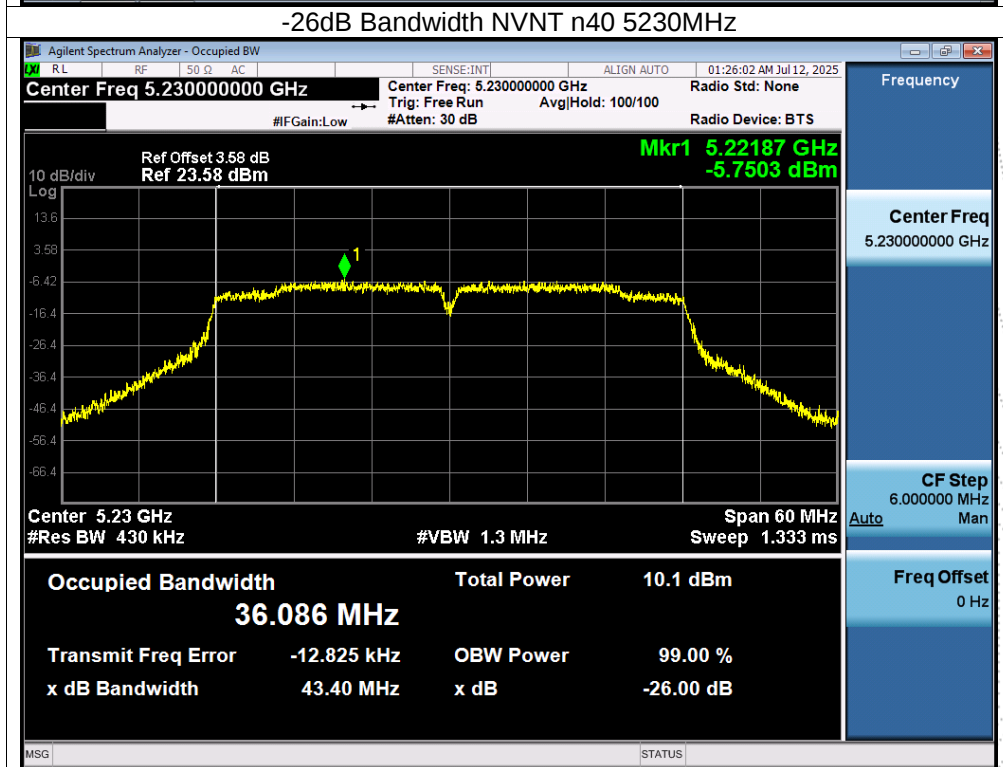
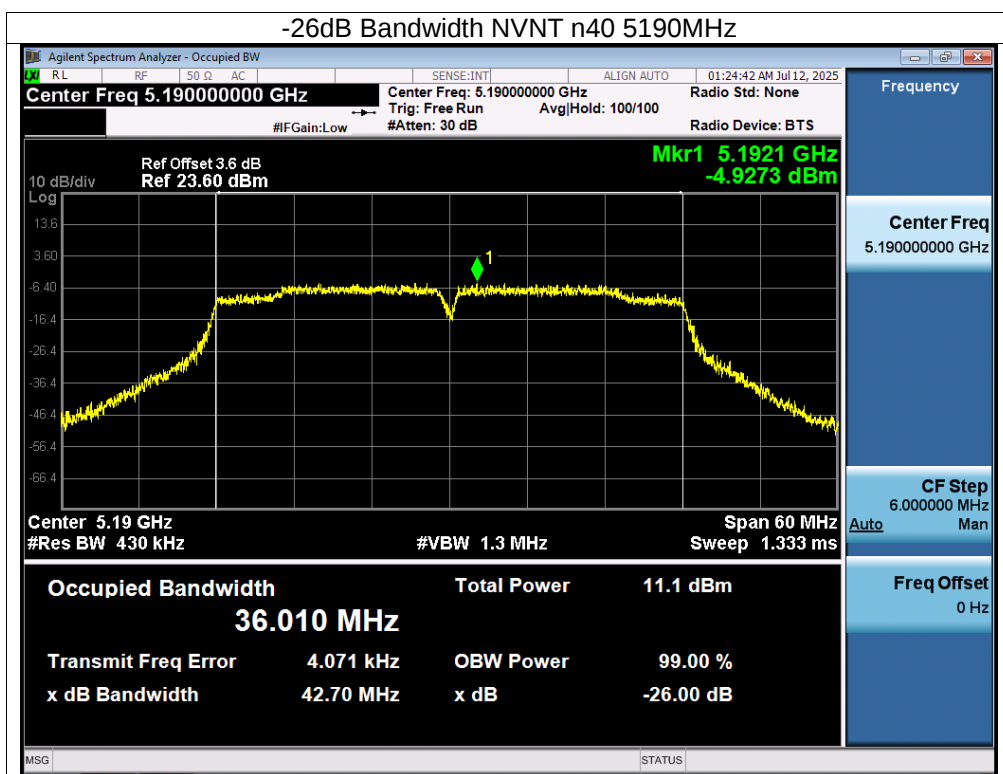
Mode	Channel	Frequency (MHz)	26dB bandwidth (MHz)		99% OBW (MHz)		Result
			ANT A	ANT B	ANT A	ANT B	
NVNT	a	5180	23.454	23.431	16.562	16.542	Pass
NVNT	a	5200	23.536	22.618	16.522	16.555	Pass
NVNT	a	5240	22.785	22.276	16.551	16.565	Pass
NVNT	n20	5180	22.911	23.171	17.668	17.657	Pass
NVNT	n20	5200	22.423	22.907	17.668	17.694	Pass
NVNT	n20	5240	23.080	21.965	17.719	17.672	Pass
NVNT	n40	5190	42.049	42.702	36.023	36.022	Pass
NVNT	n40	5230	43.129	43.397	36.026	36.068	Pass
NVNT	ac20	5180	22.540	22.671	17.726	17.675	Pass
NVNT	ac20	5200	23.422	23.387	17.708	17.719	Pass
NVNT	ac20	5240	22.643	22.889	17.672	17.677	Pass
NVNT	ac40	5190	42.756	42.516	36.054	36.010	Pass
NVNT	ac40	5230	42.005	42.391	36.035	36.052	Pass
NVNT	ac80	5210	83.477	86.754	75.149	75.141	Pass
NVNT	ax20	5180	22.495	23.234	18.850	18.866	Pass
NVNT	ax20	5200	23.072	23.177	18.932	18.890	Pass
NVNT	ax20	5240	22.732	22.744	18.862	18.872	Pass
NVNT	ax40	5190	42.268	41.027	37.435	37.566	Pass
NVNT	ax40	5230	42.226	43.020	37.565	37.523	Pass
NVNT	ax80	5210	81.632	82.855	76.801	76.887	Pass

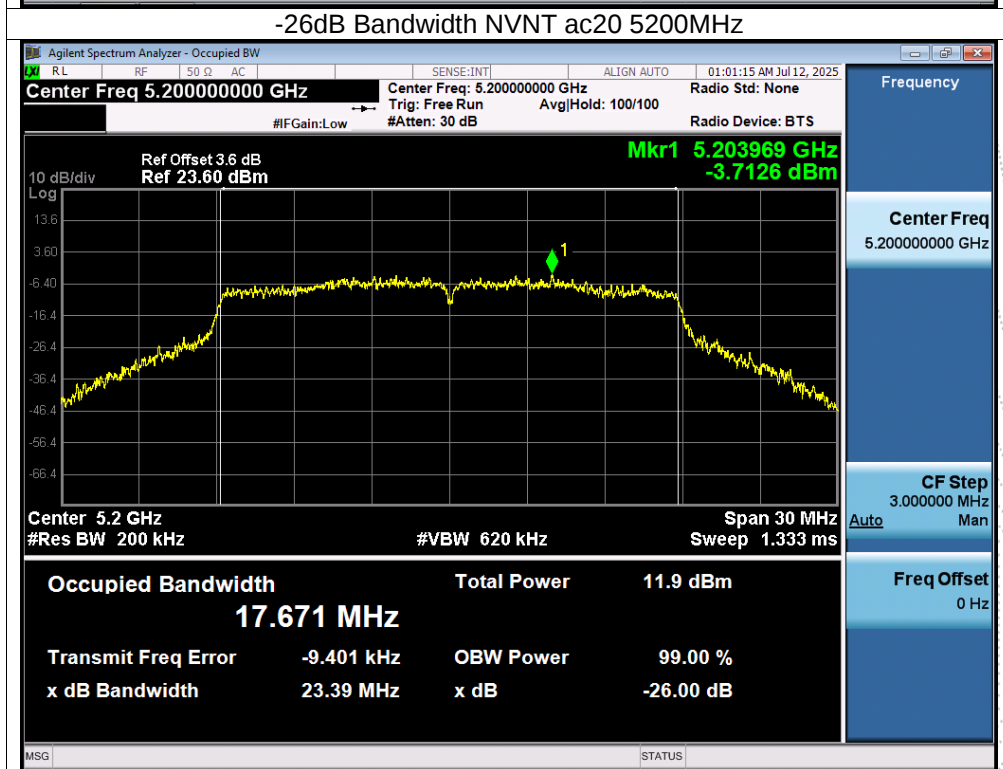
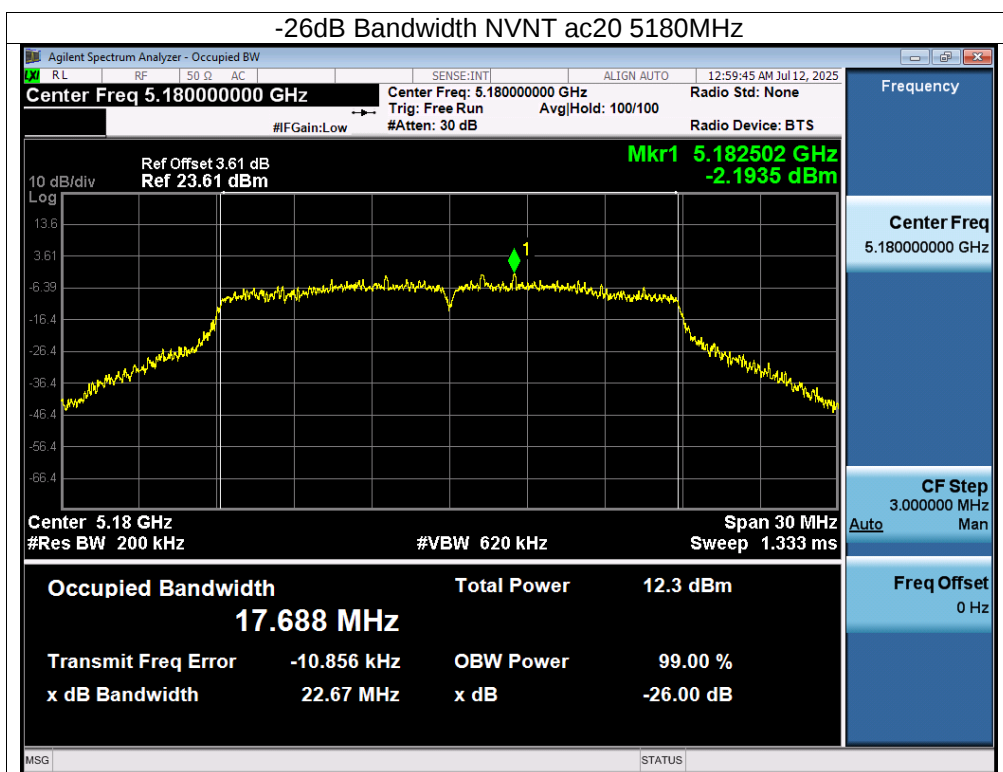
Note: A(B) Represent the value of antenna A and B. The worst data is Antenna B, only shown Antenna B Plot.

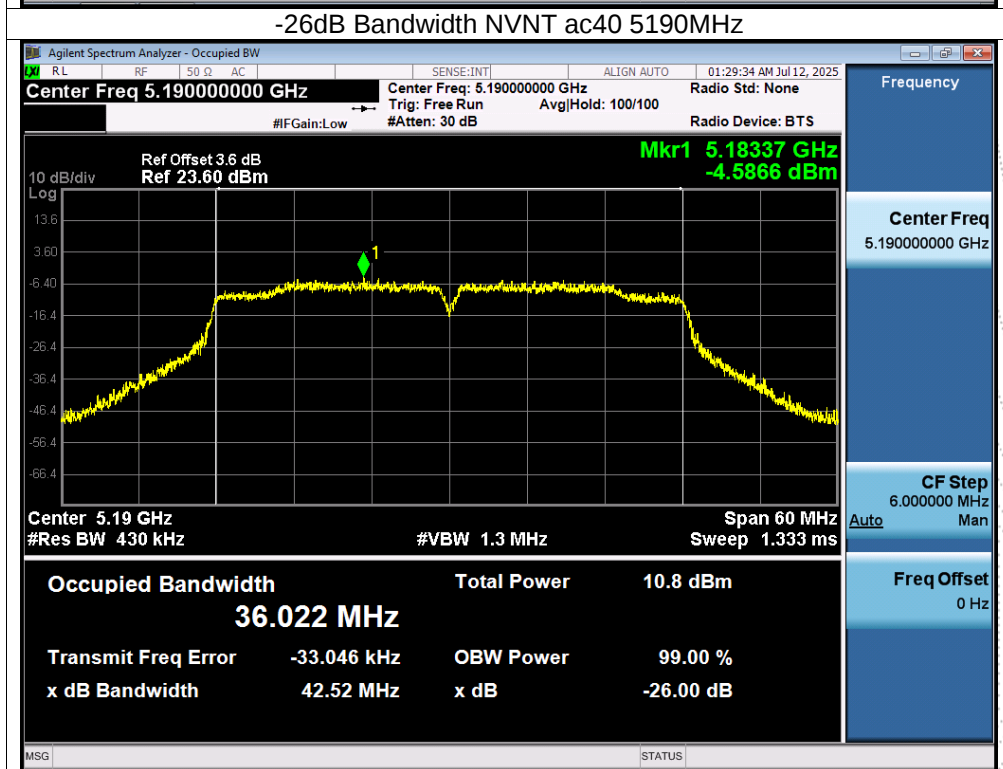
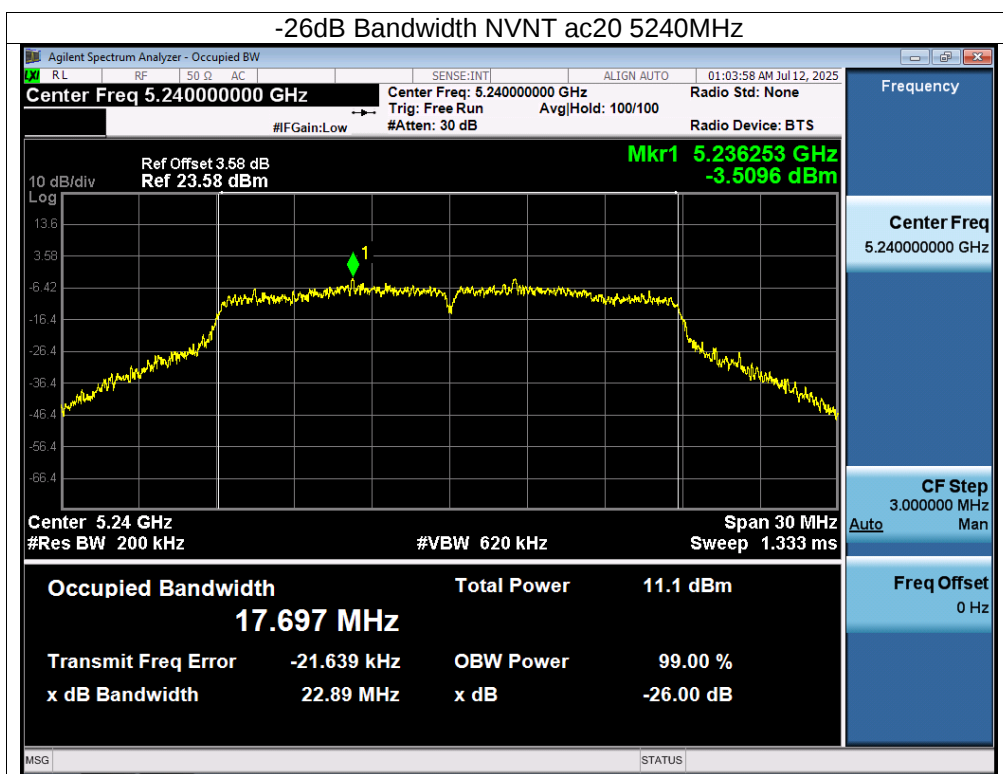


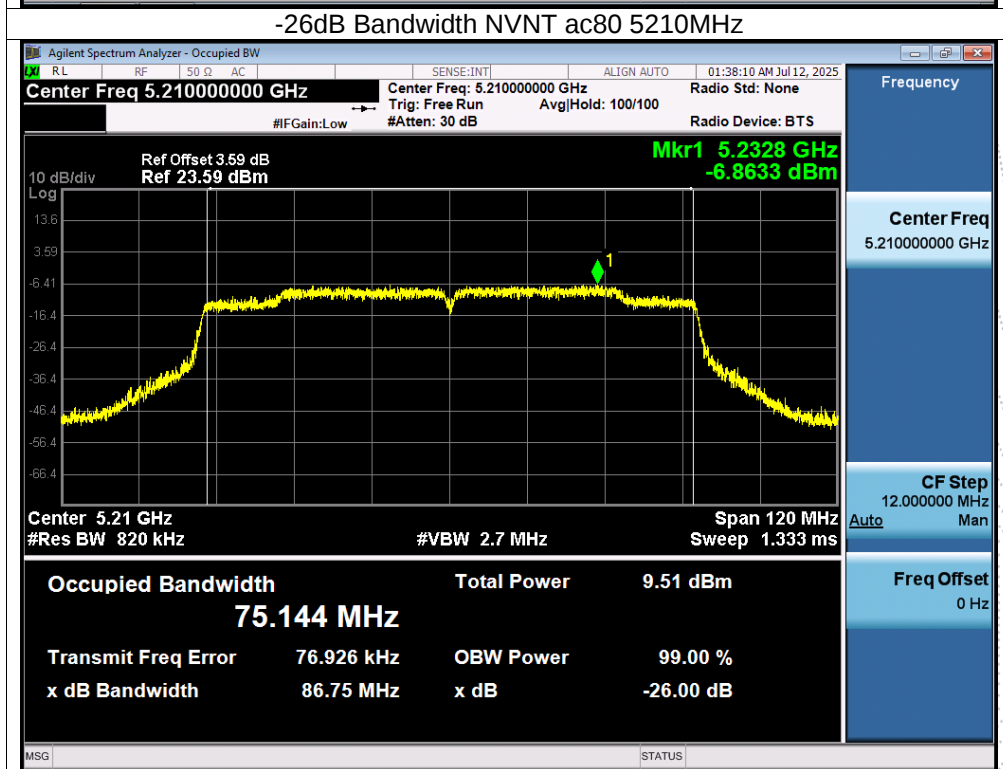
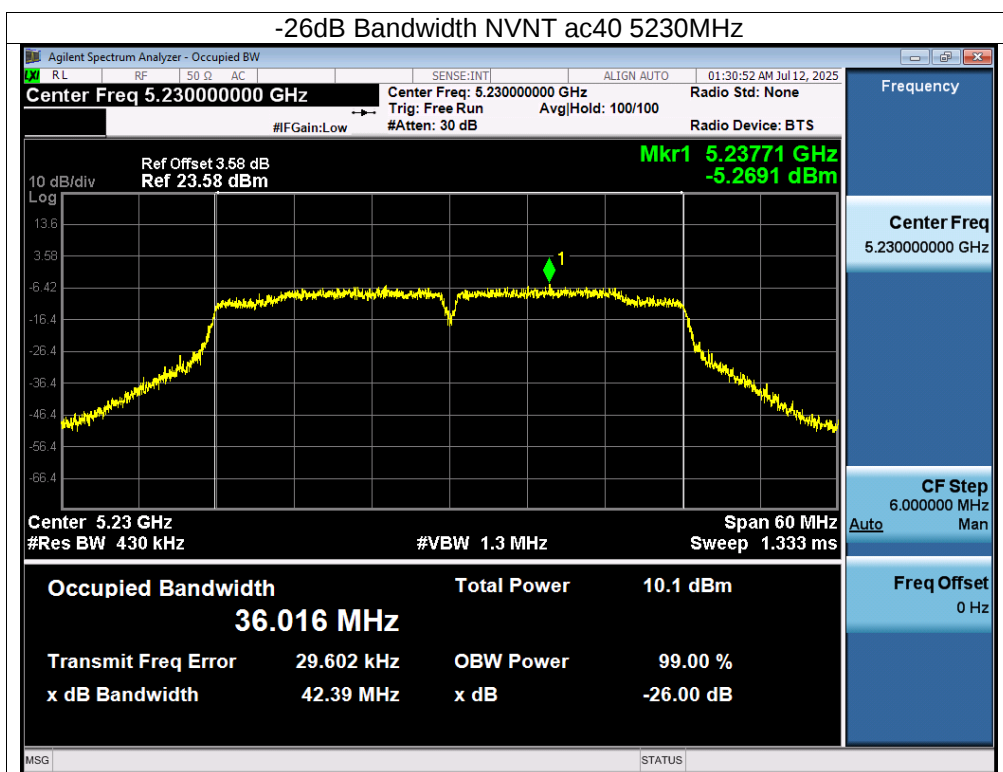


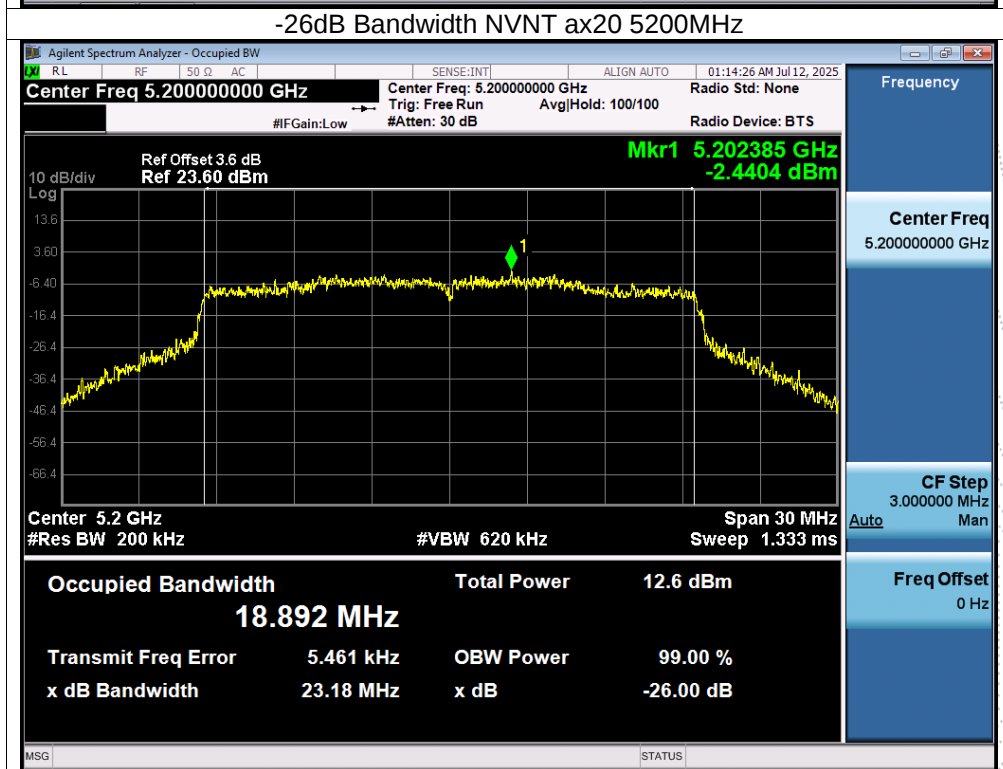
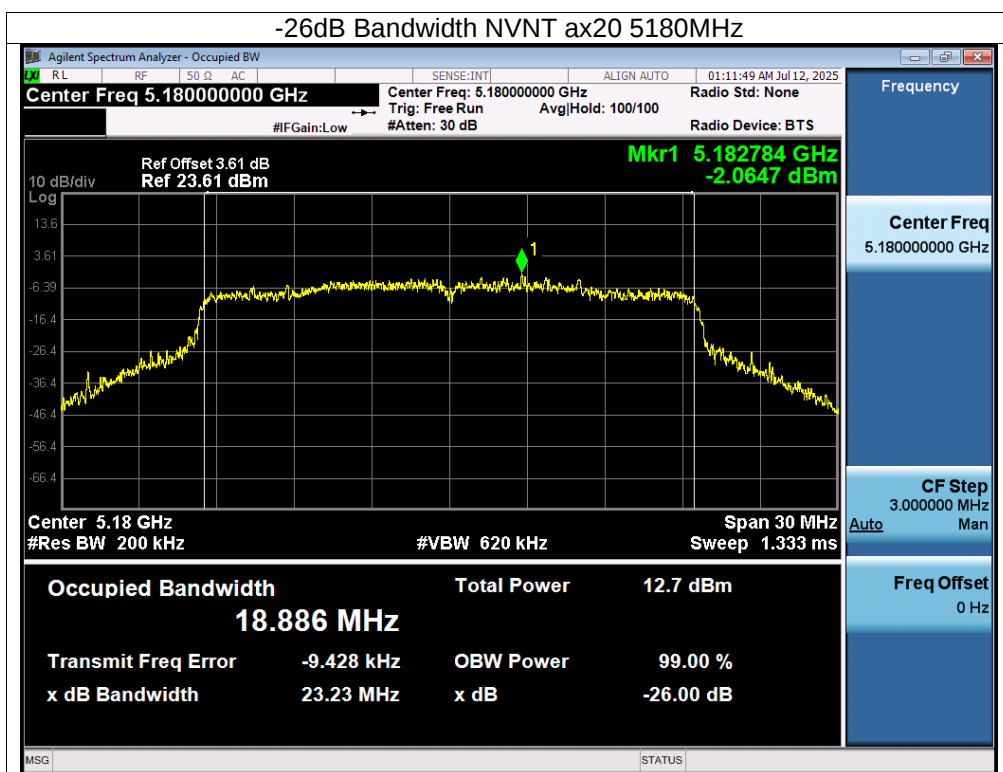


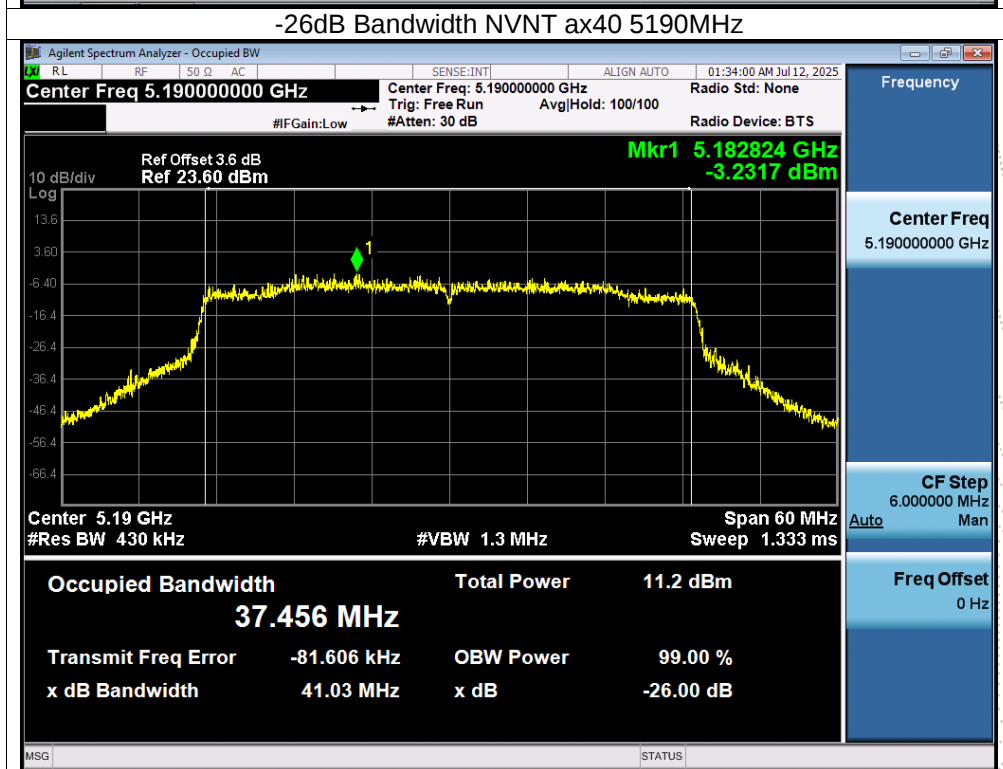
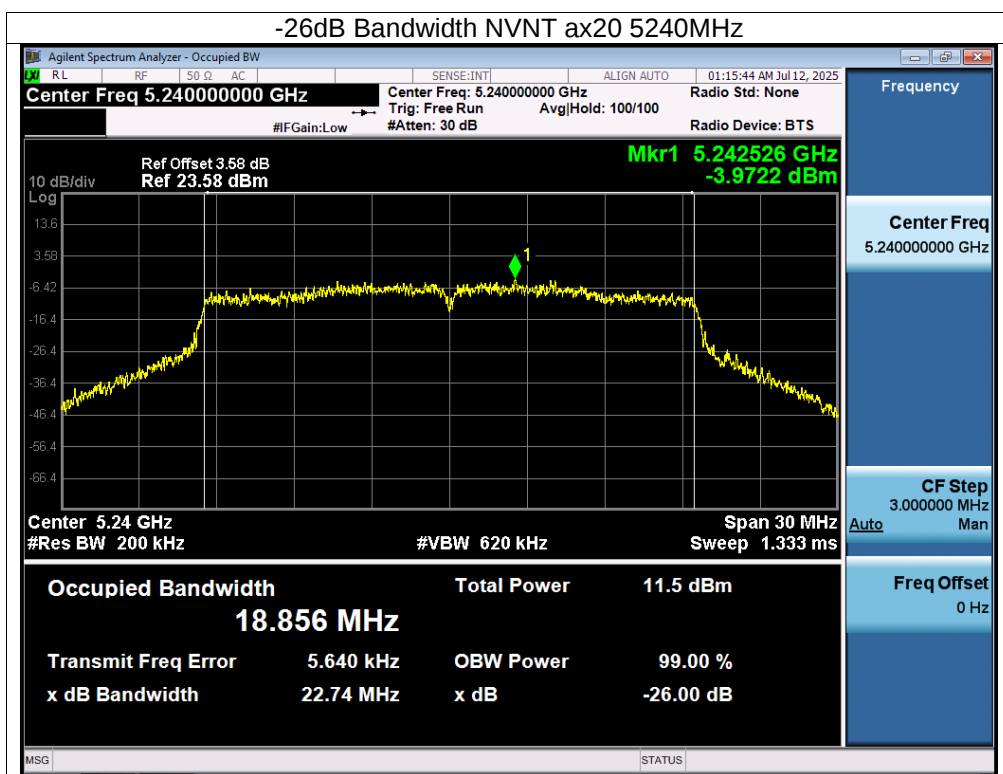


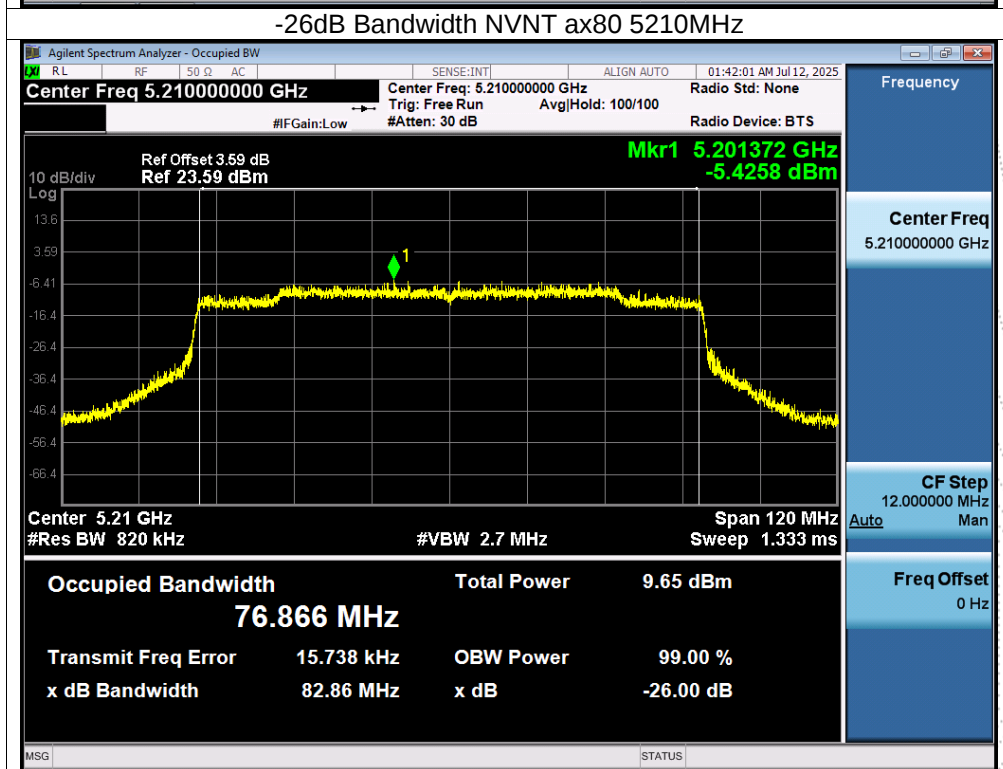
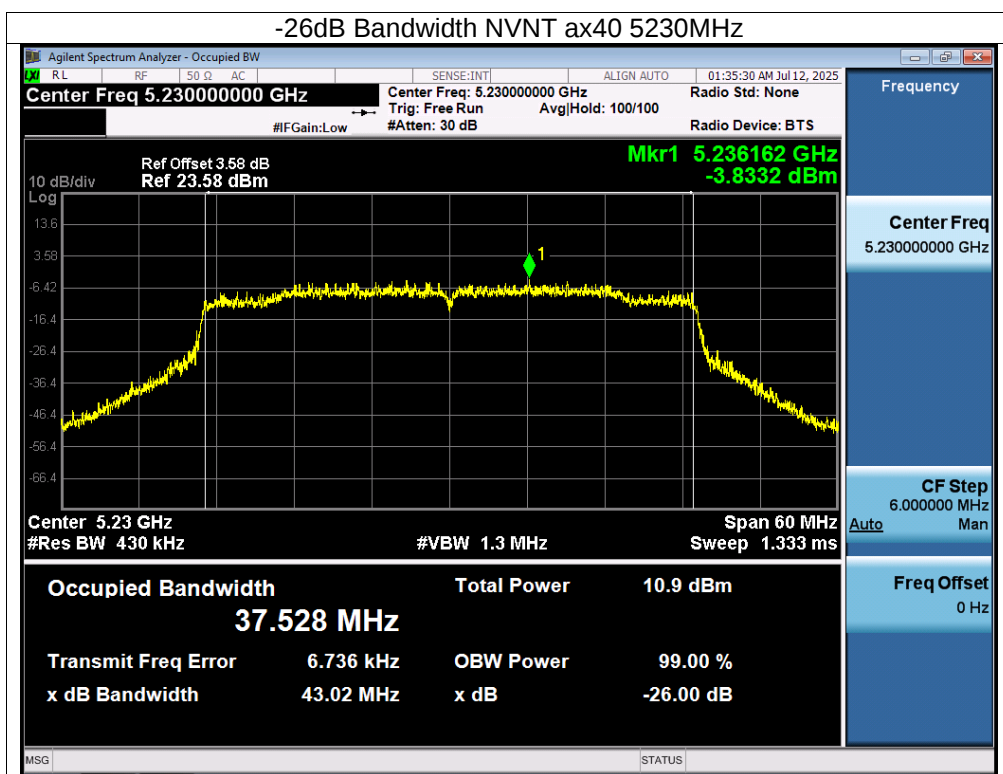


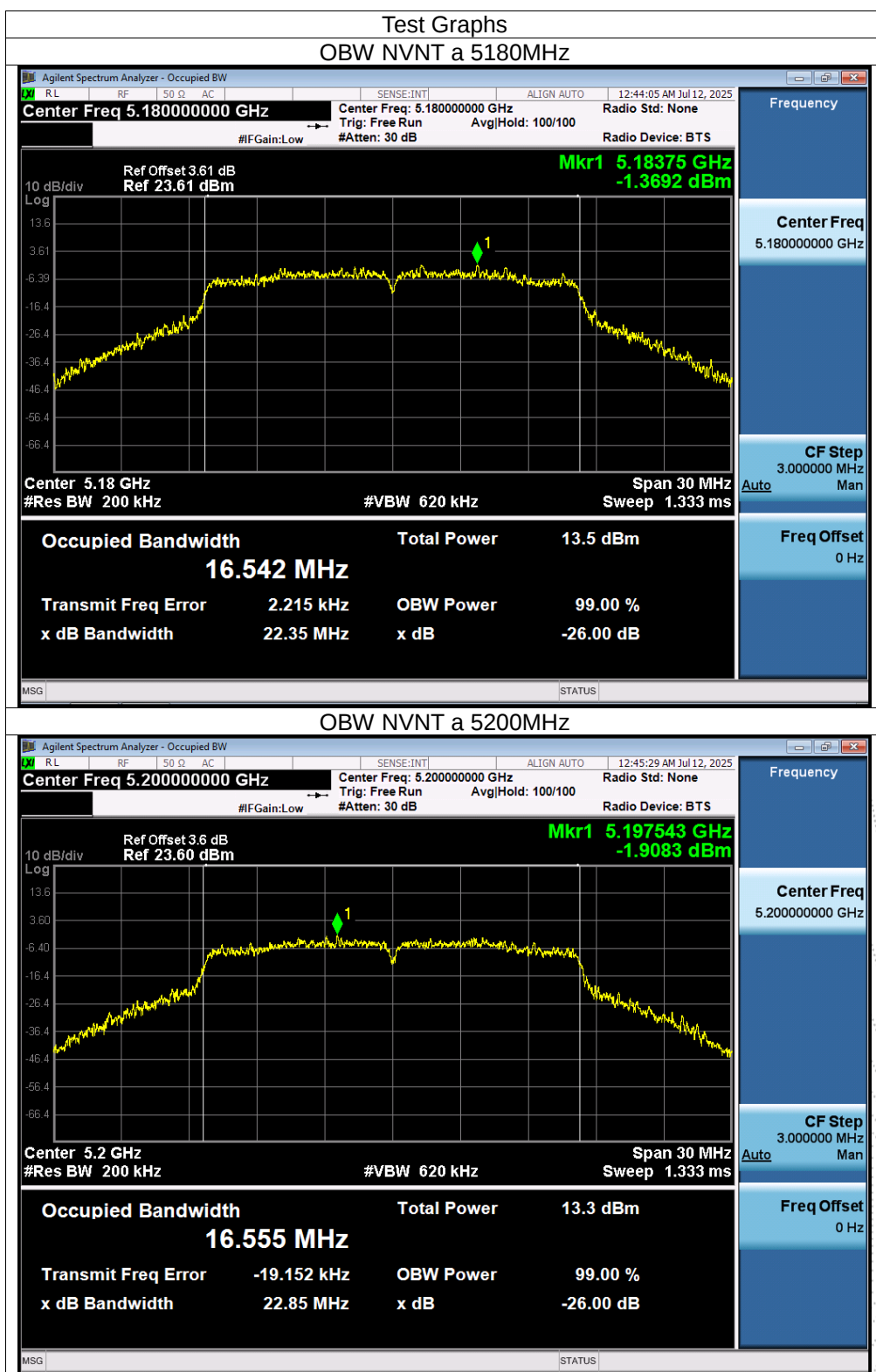


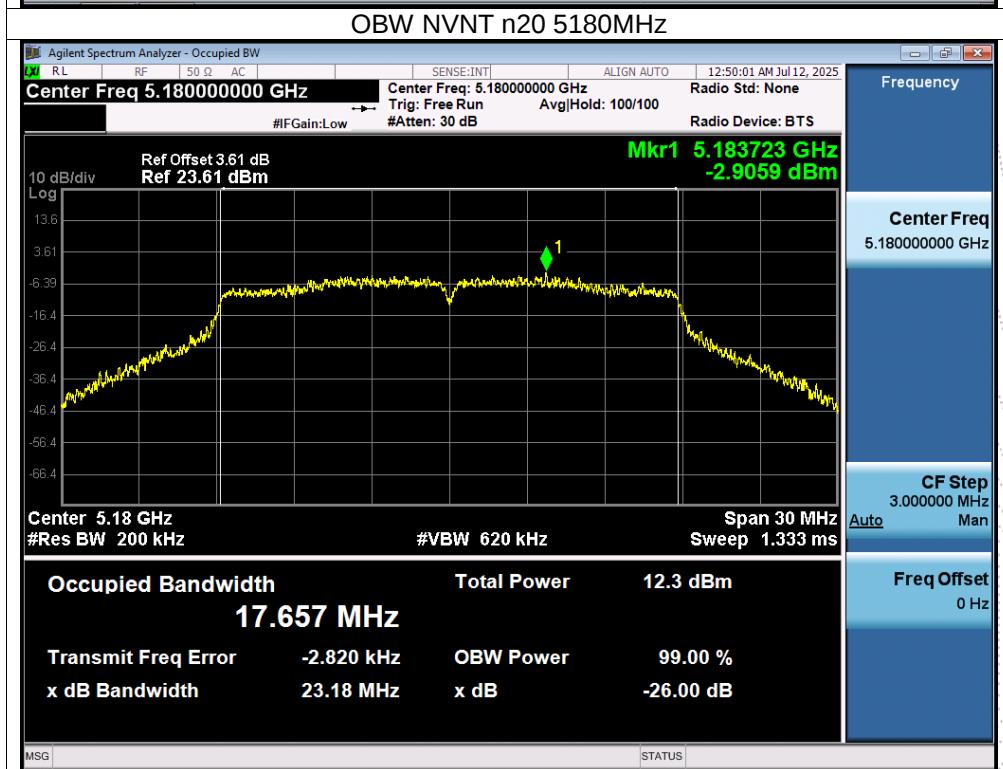
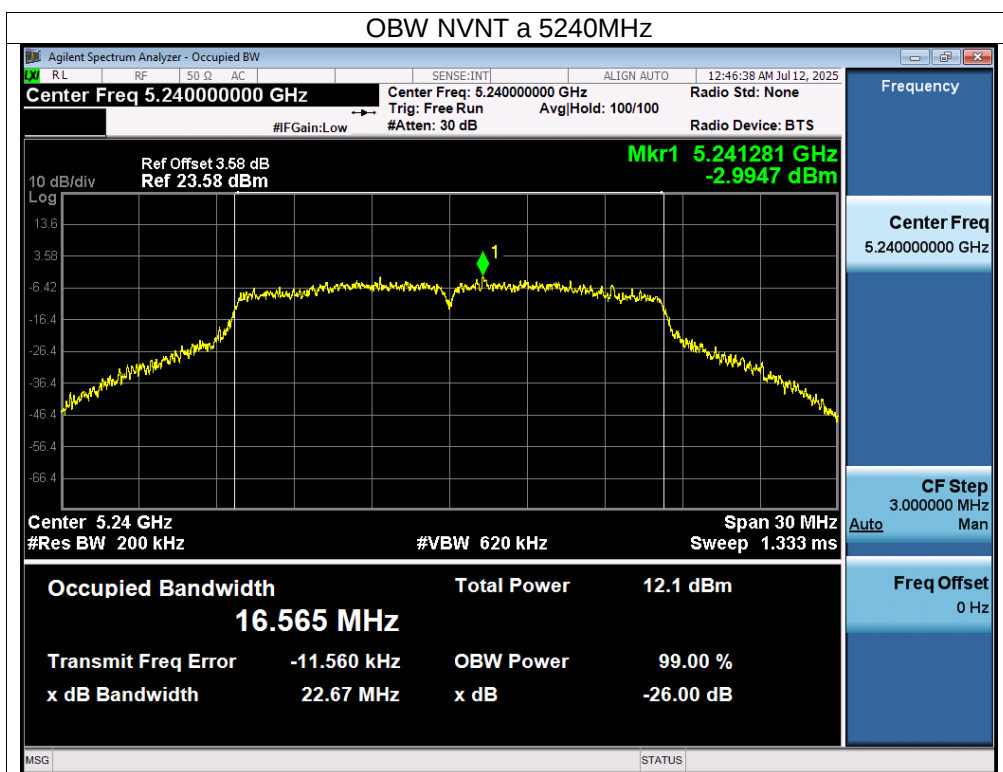


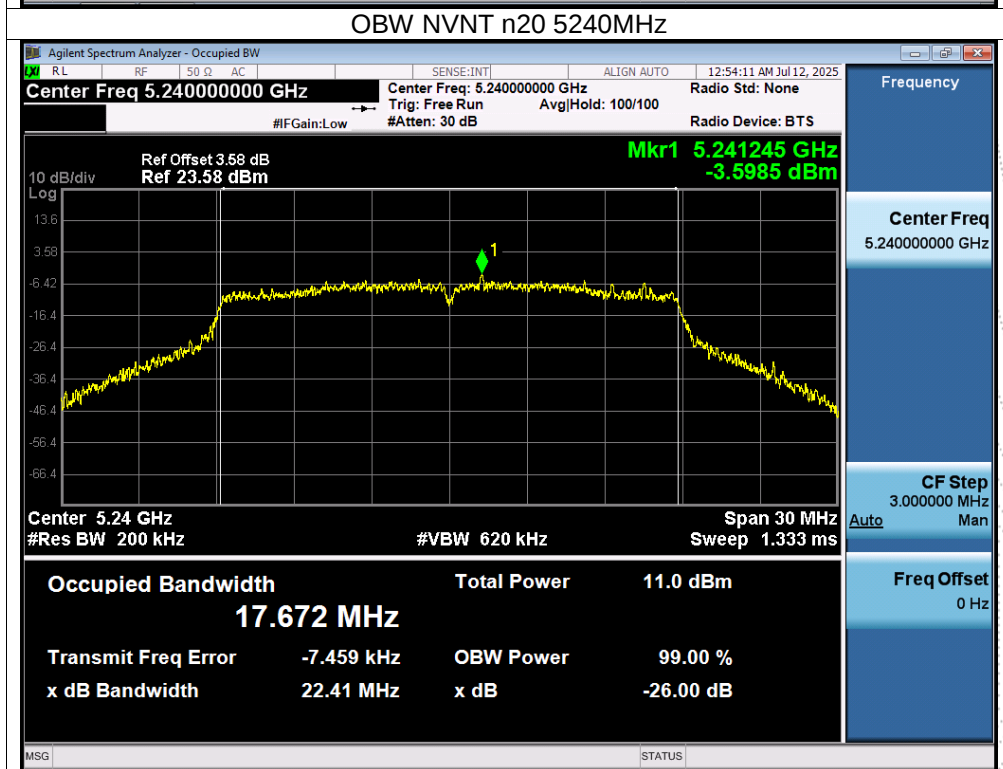
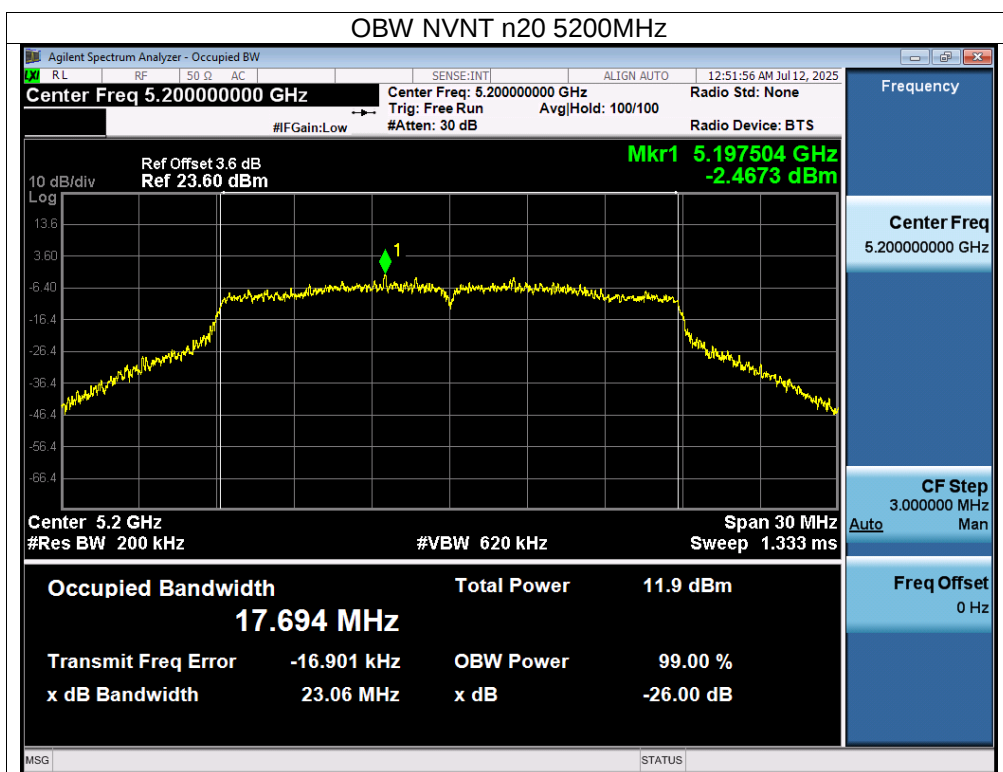


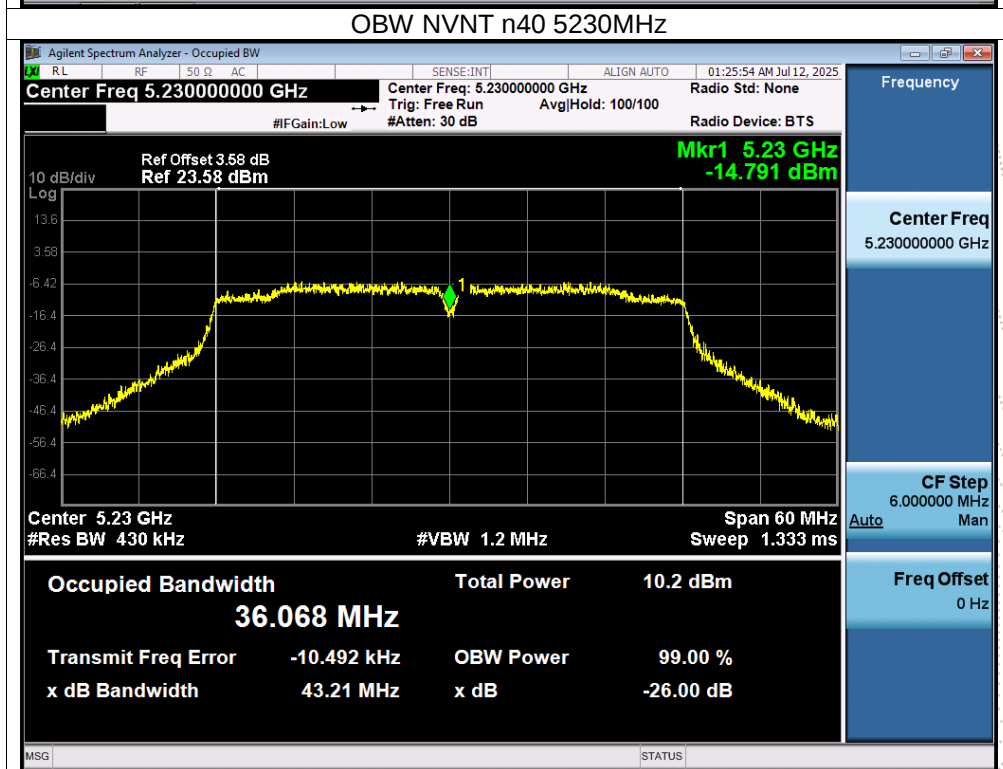
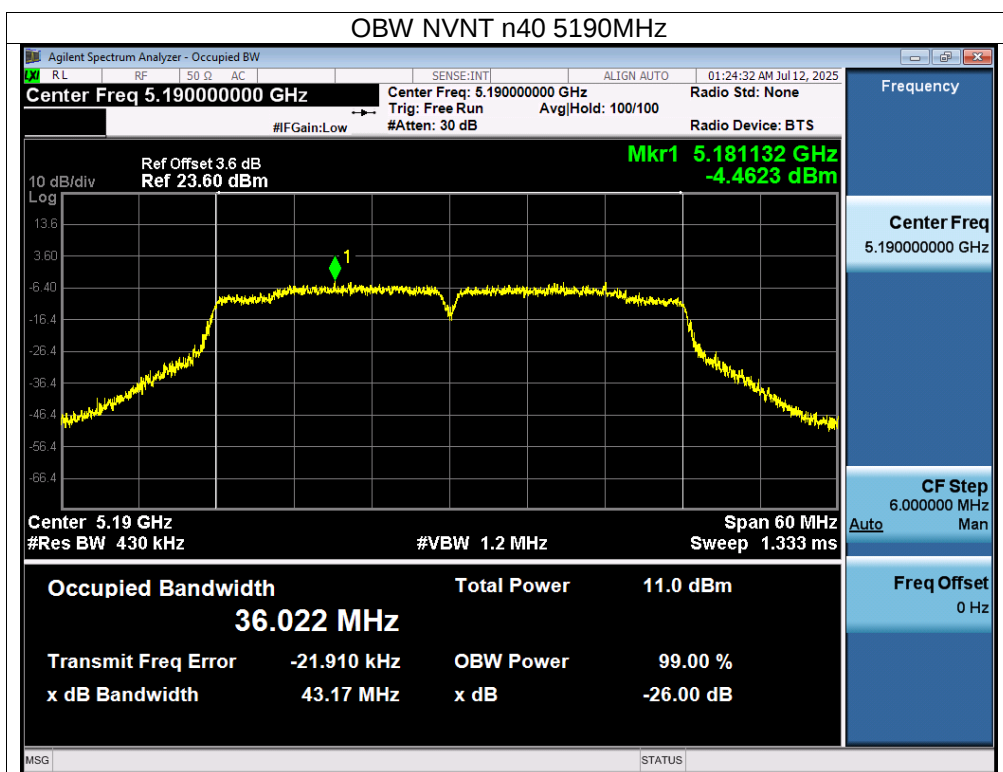


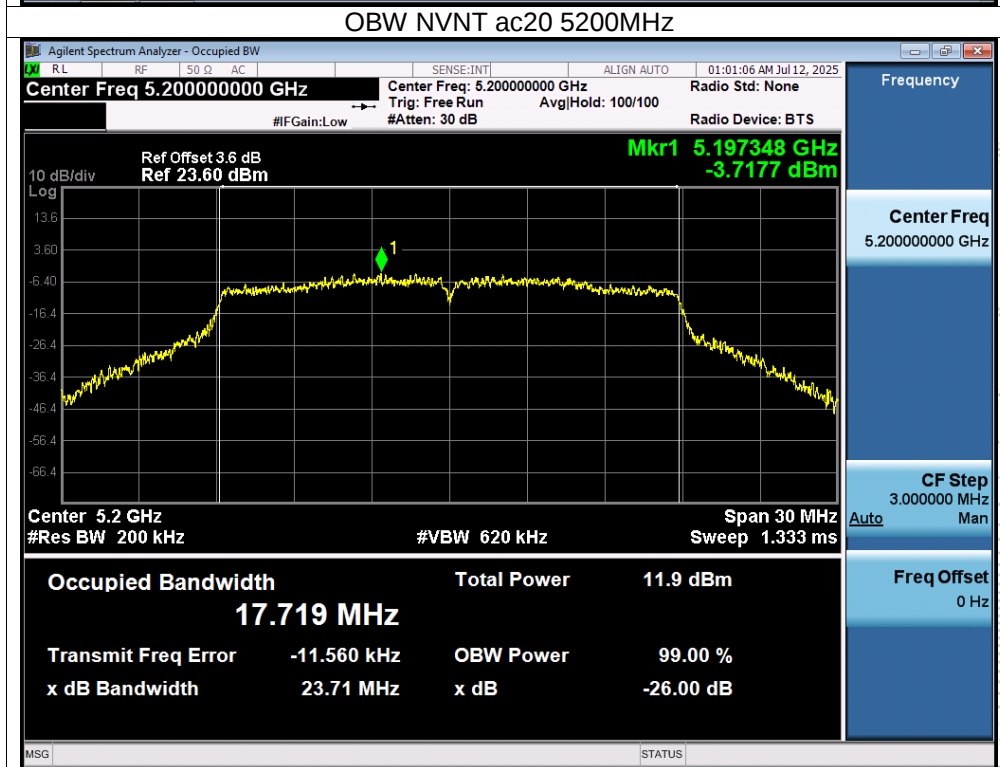
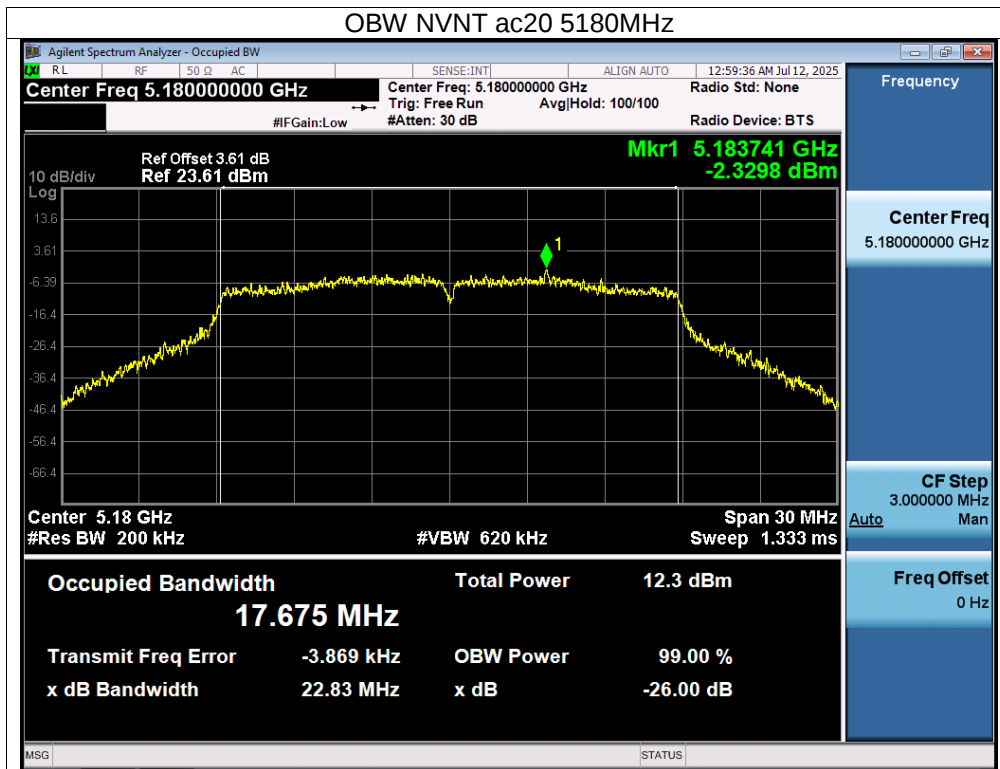


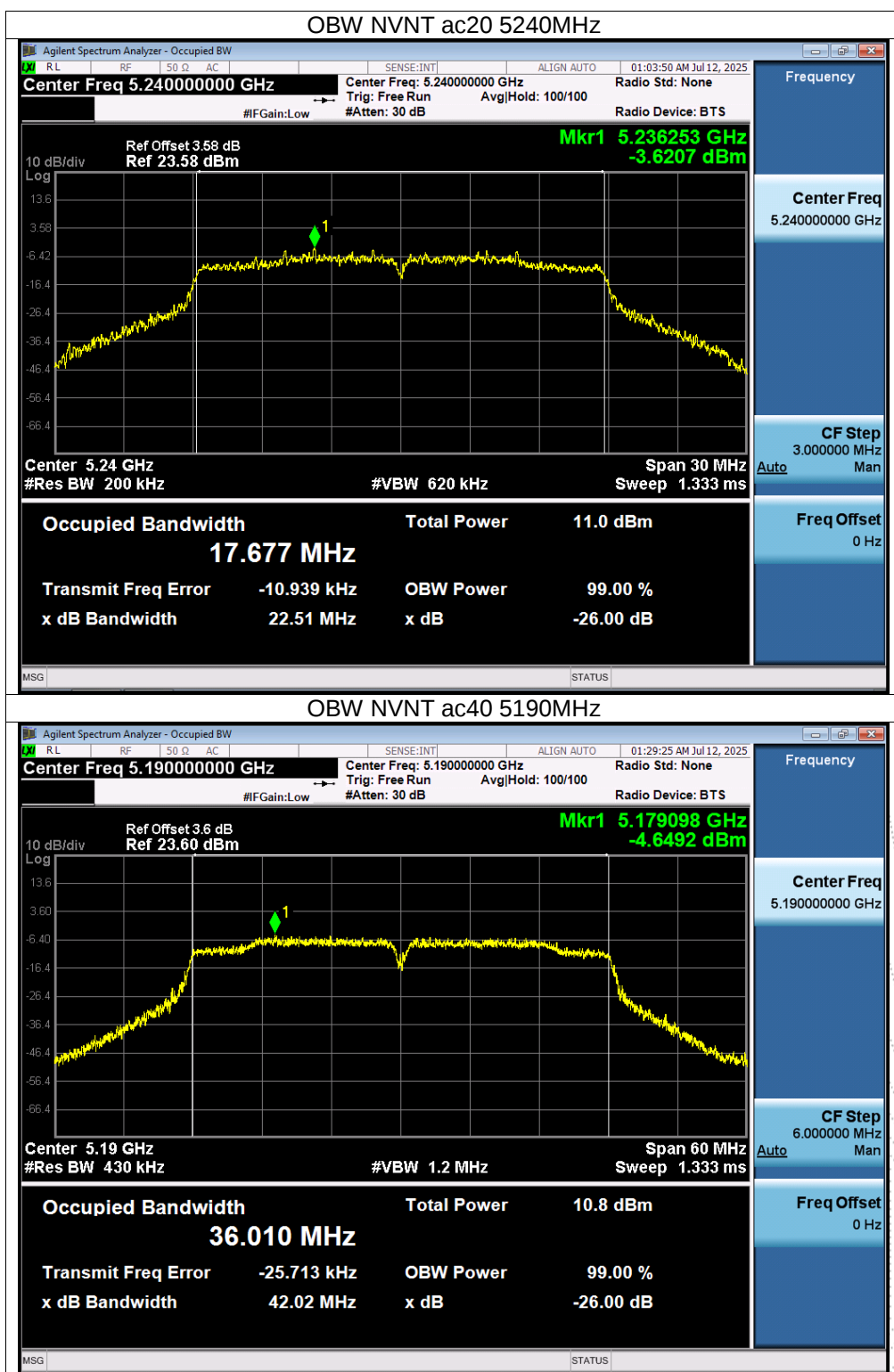


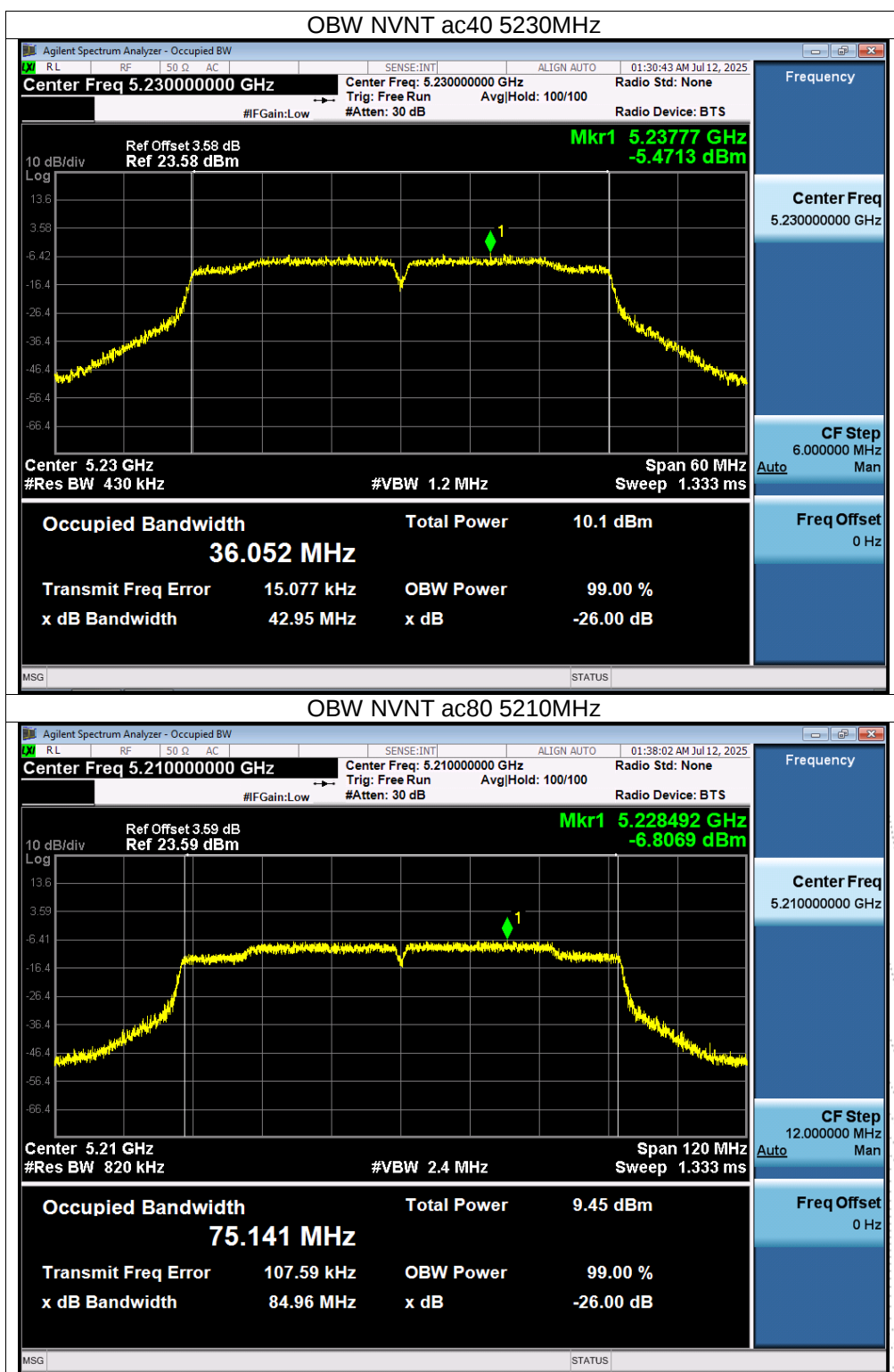


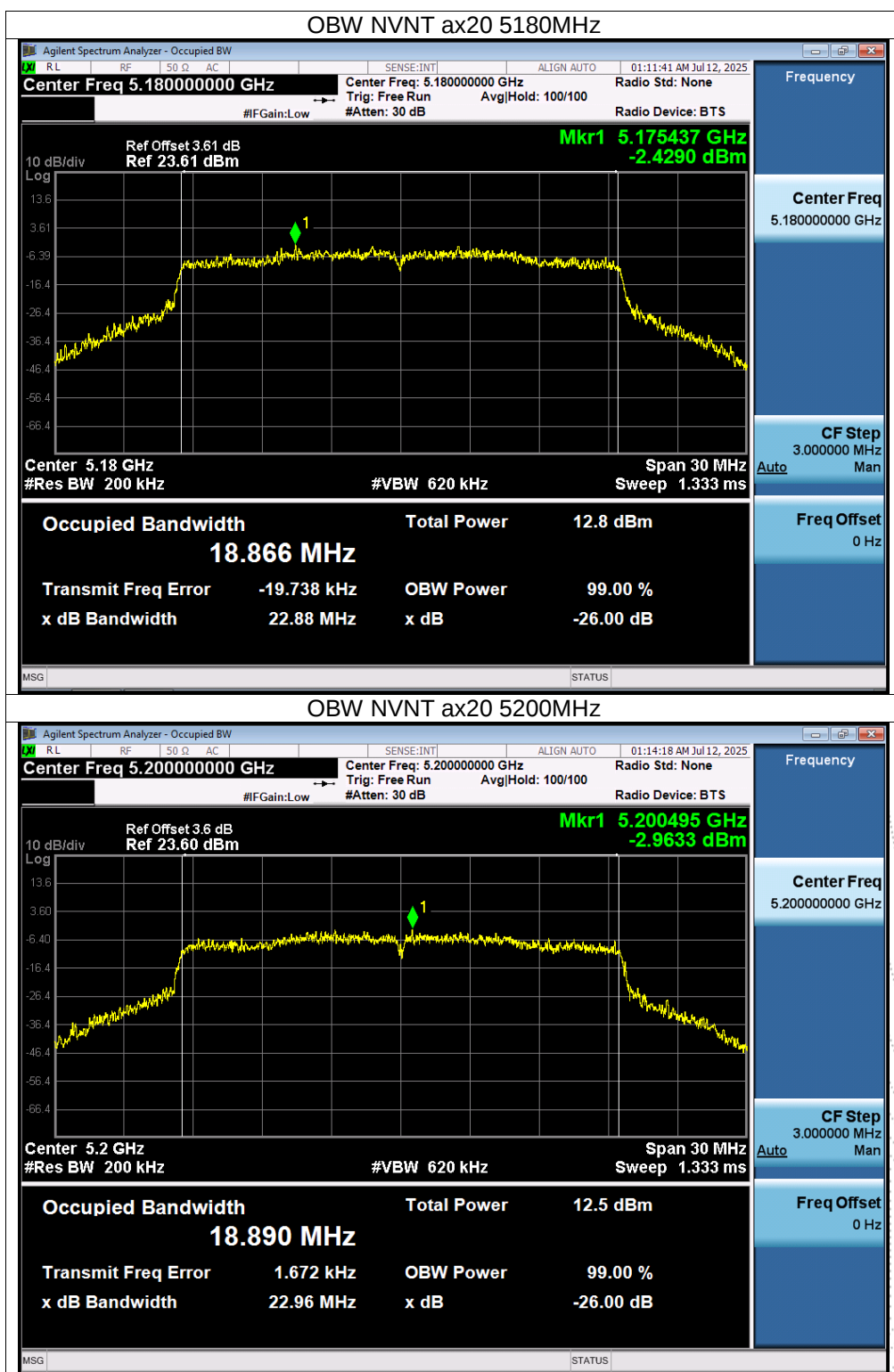


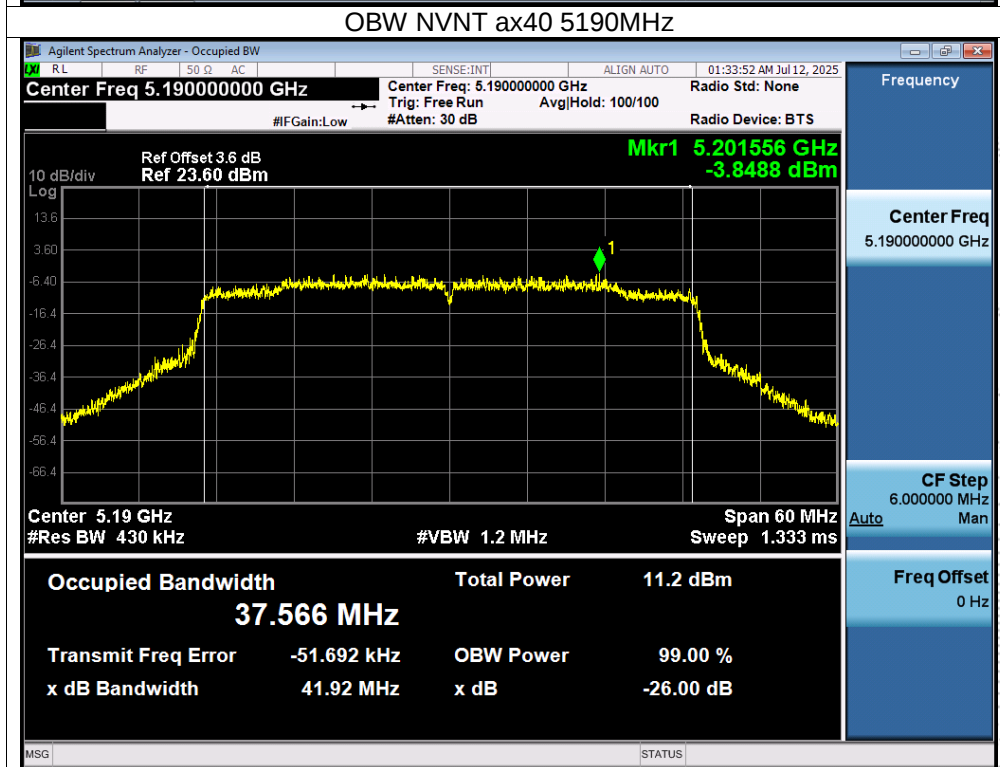
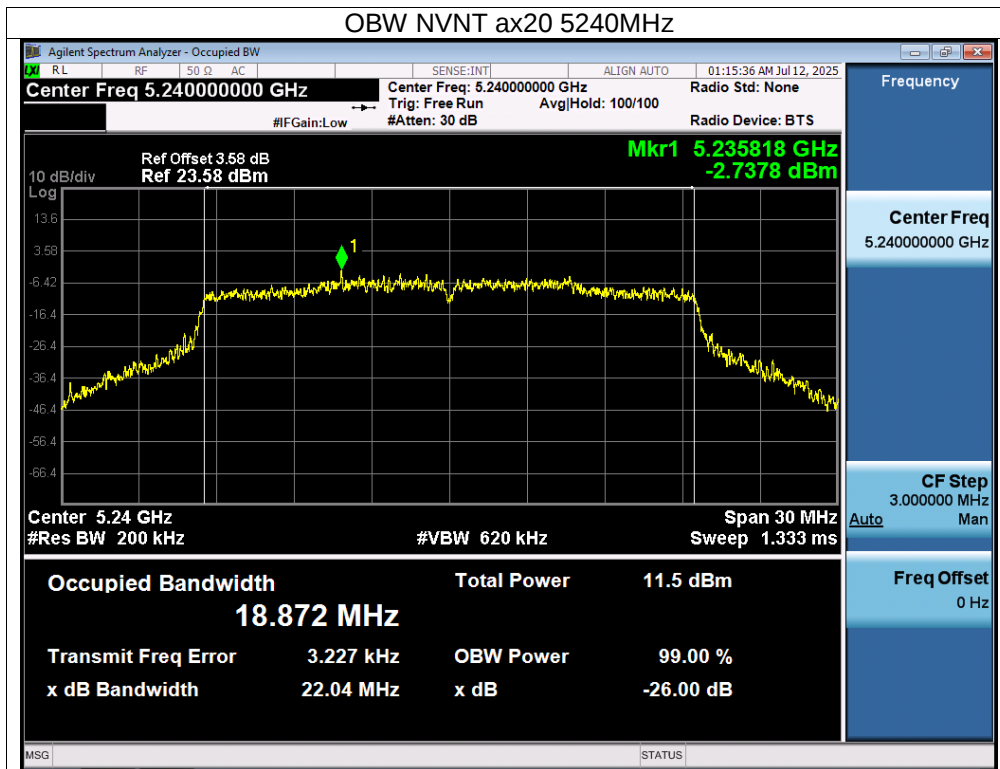


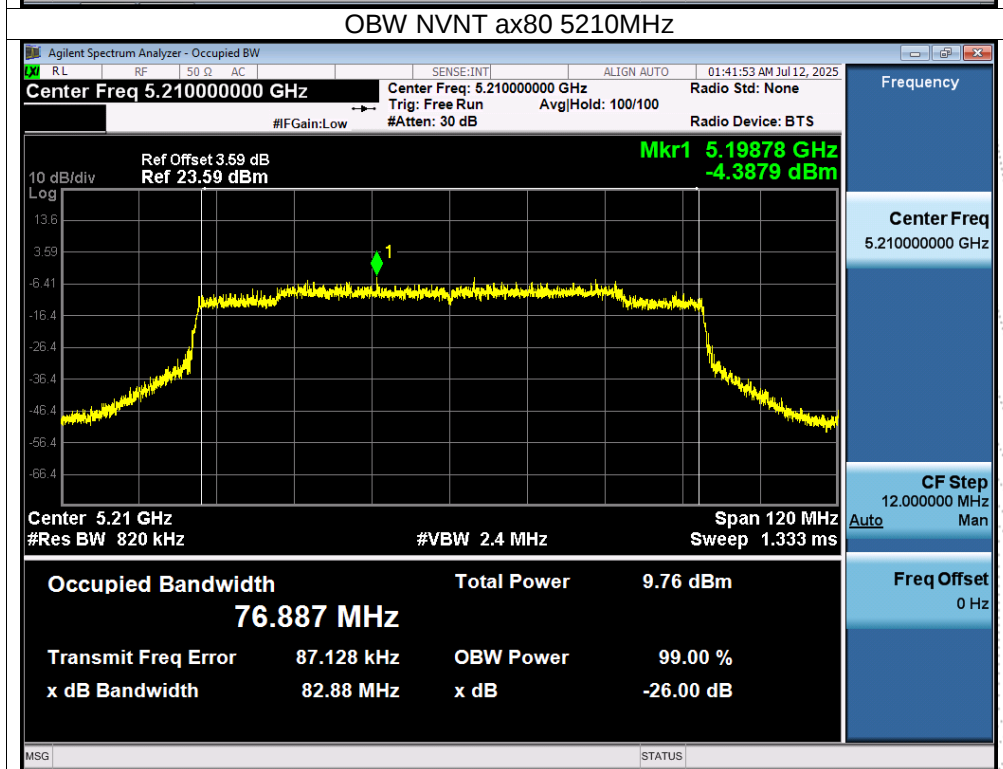
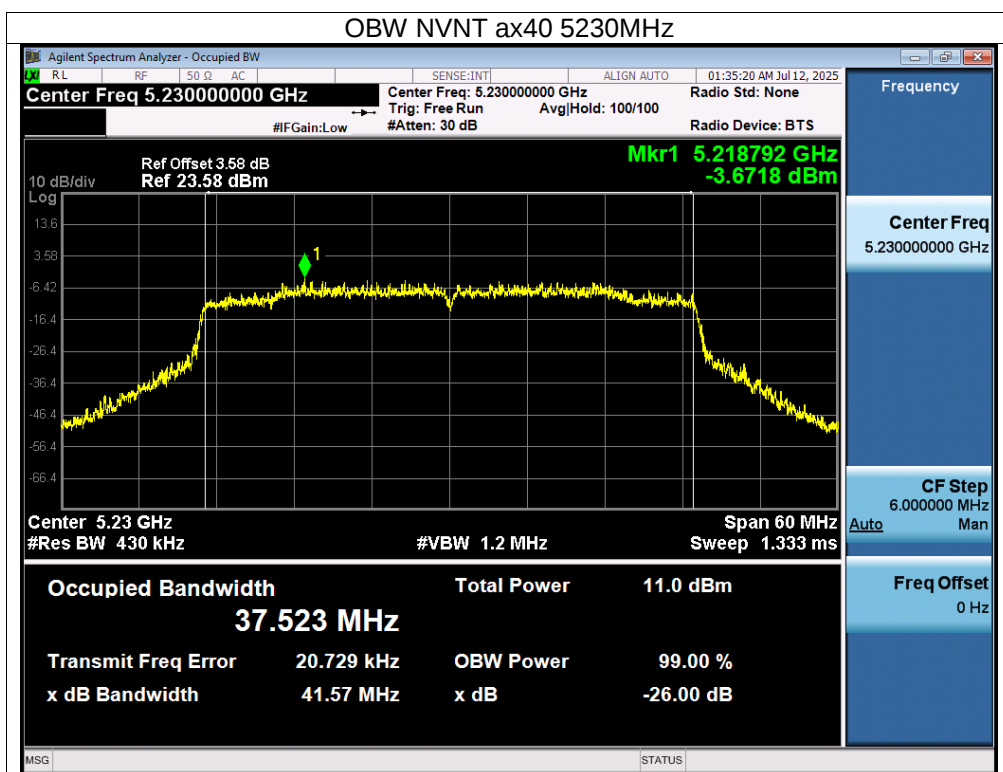












Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101kPa	Test Voltage:	DC 11.4V
Test Mode:	TX Frequency U-NII-3 (5745-5825MHz)		

Mode	Channel	Frequency (MHz)	-6dB bandwidth (MHz)		99% OBW (MHz)		Limit -6dB bandwidth MHz	Result
			ANT A	ANT B	ANT A	ANT B		
NVNT	a	5745	16.342	16.326	16.715	16.757	0.5	Pass
NVNT	a	5785	16.317	16.326	16.721	16.729	0.5	Pass
NVNT	a	5825	16.329	16.333	16.725	16.747	0.5	Pass
NVNT	n20	5745	17.555	17.609	17.865	17.897	0.5	Pass
NVNT	n20	5785	17.558	17.610	17.882	17.866	0.5	Pass
NVNT	n20	5825	17.297	17.534	17.870	17.865	0.5	Pass
NVNT	n40	5755	36.327	36.332	36.412	36.354	0.5	Pass
NVNT	n40	5795	36.315	36.329	36.369	36.360	0.5	Pass
NVNT	ac20	5745	17.578	17.567	17.858	17.908	0.5	Pass
NVNT	ac20	5785	17.576	17.595	17.858	17.898	0.5	Pass
NVNT	ac20	5825	17.595	17.591	17.850	17.855	0.5	Pass
NVNT	ac40	5755	36.332	36.323	36.338	36.355	0.5	Pass
NVNT	ac40	5795	36.332	36.330	36.357	36.420	0.5	Pass
NVNT	ac80	5775	63.554	67.552	75.029	74.988	0.5	Pass
NVNT	ax20	5745	18.695	18.938	19.015	19.019	0.5	Pass
NVNT	ax20	5785	18.817	18.970	19.016	19.013	0.5	Pass
NVNT	ax20	5825	18.863	18.355	19.028	19.037	0.5	Pass
NVNT	ax40	5755	37.807	37.363	37.839	37.794	0.5	Pass
NVNT	ax40	5795	37.793	37.759	37.754	37.799	0.5	Pass
NVNT	ax80	5775	61.334	68.860	76.665	76.398	0.5	Pass

Note: A(B) Represent the value of antenna A and B. The worst data is Antenna A, only shown Antenna A Plot.

