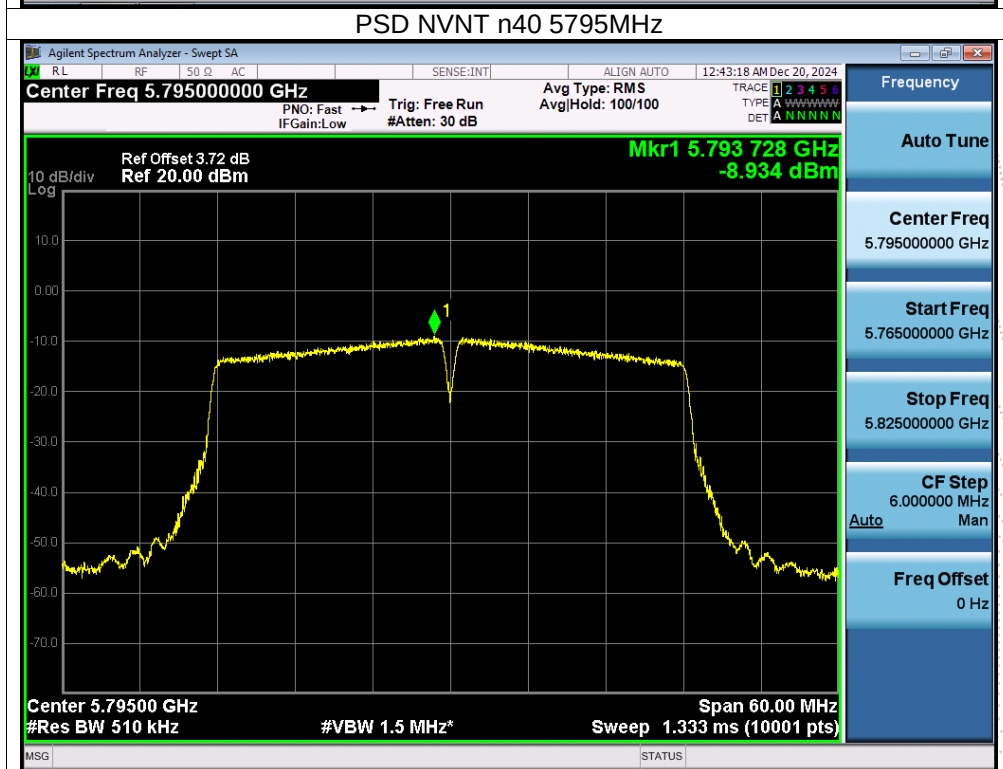
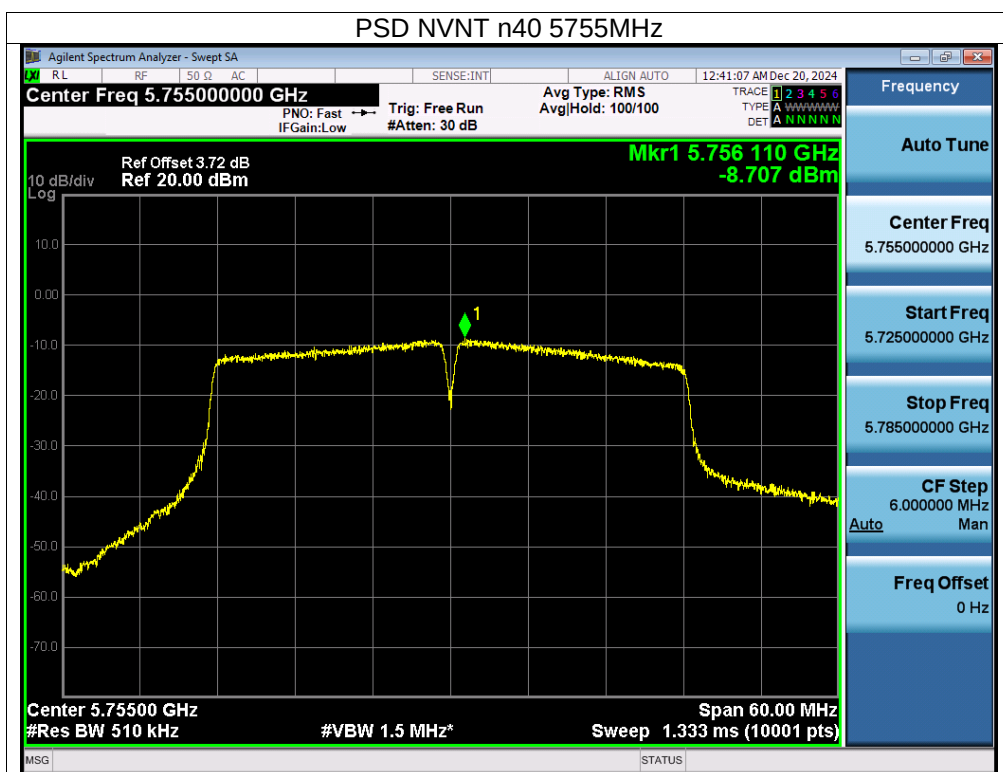
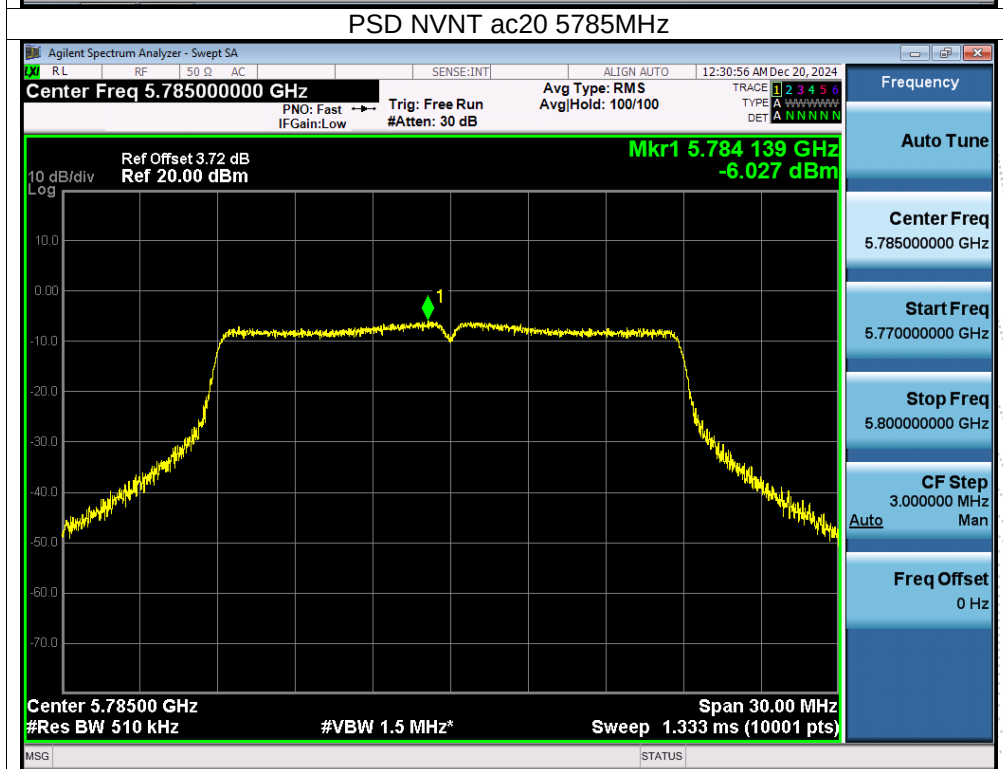
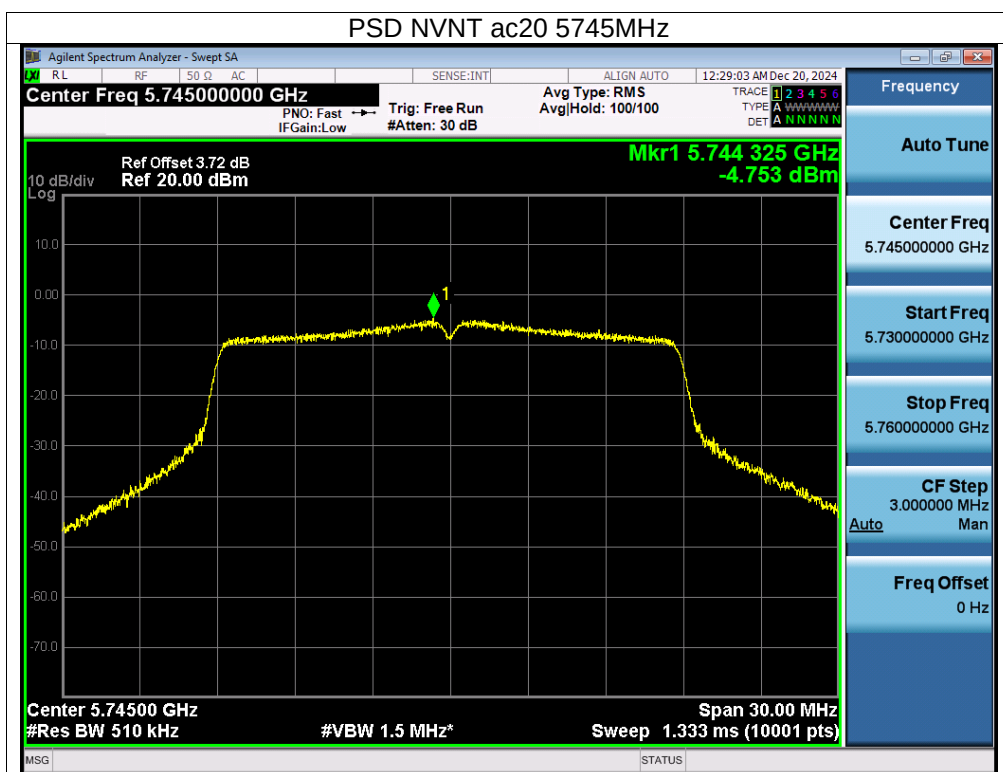
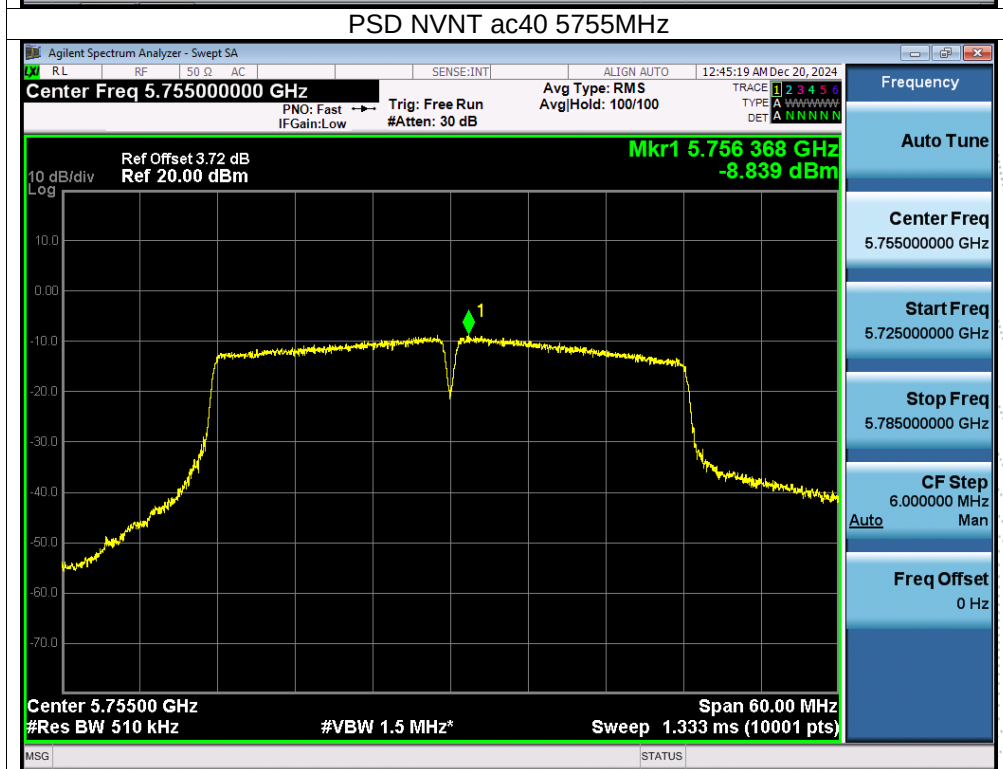
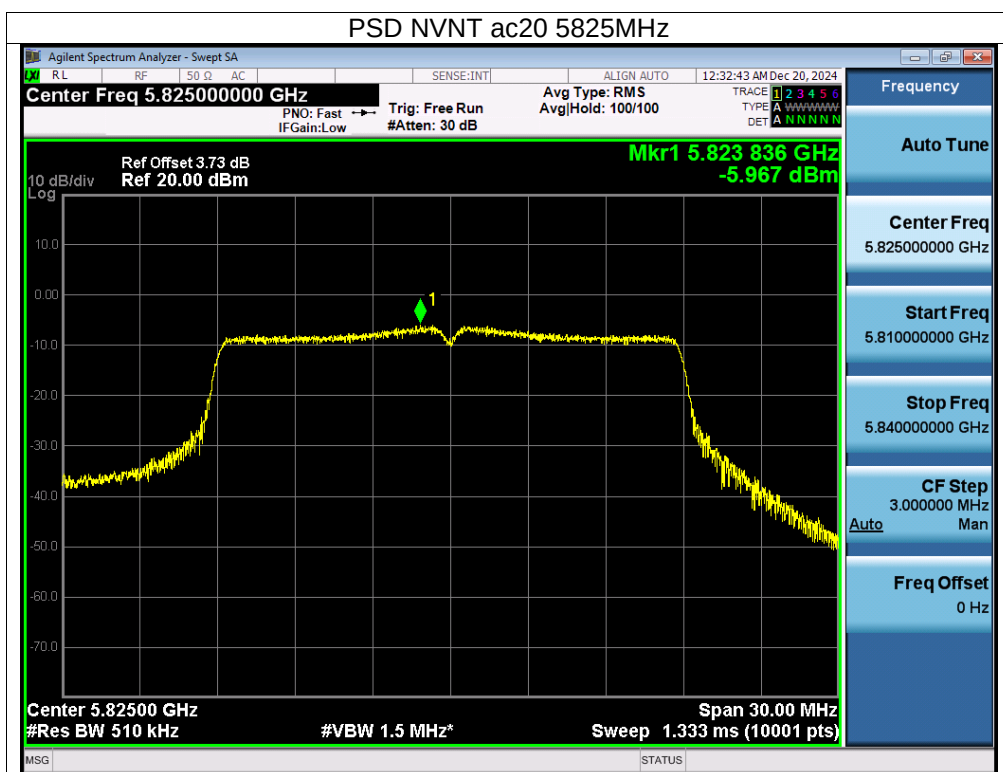
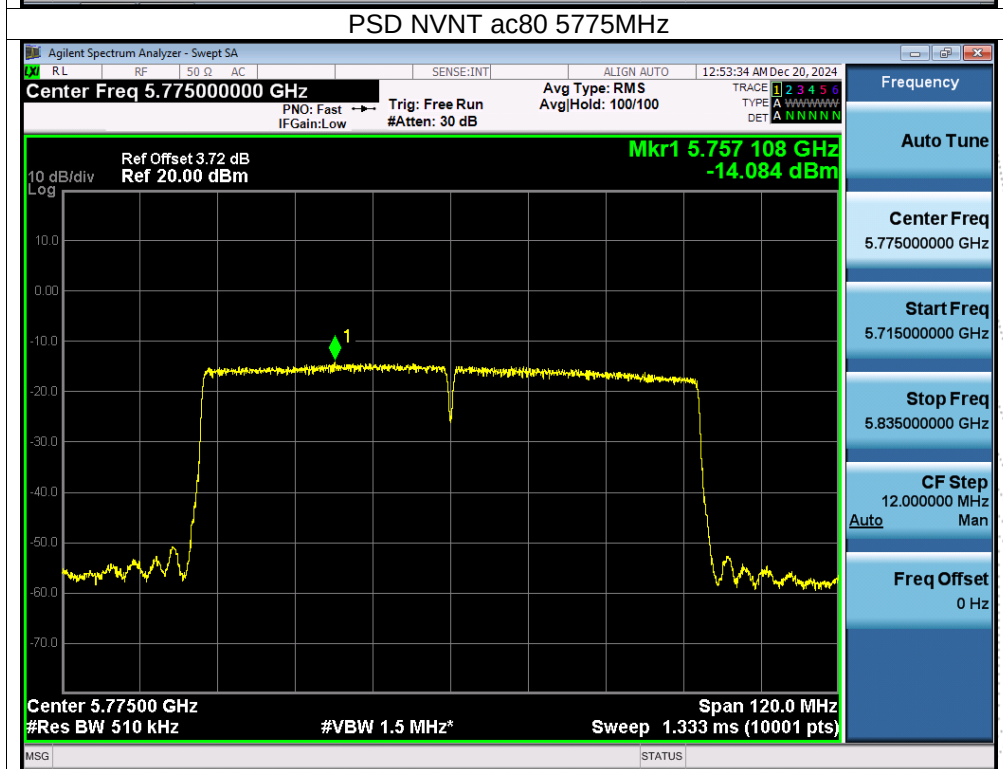
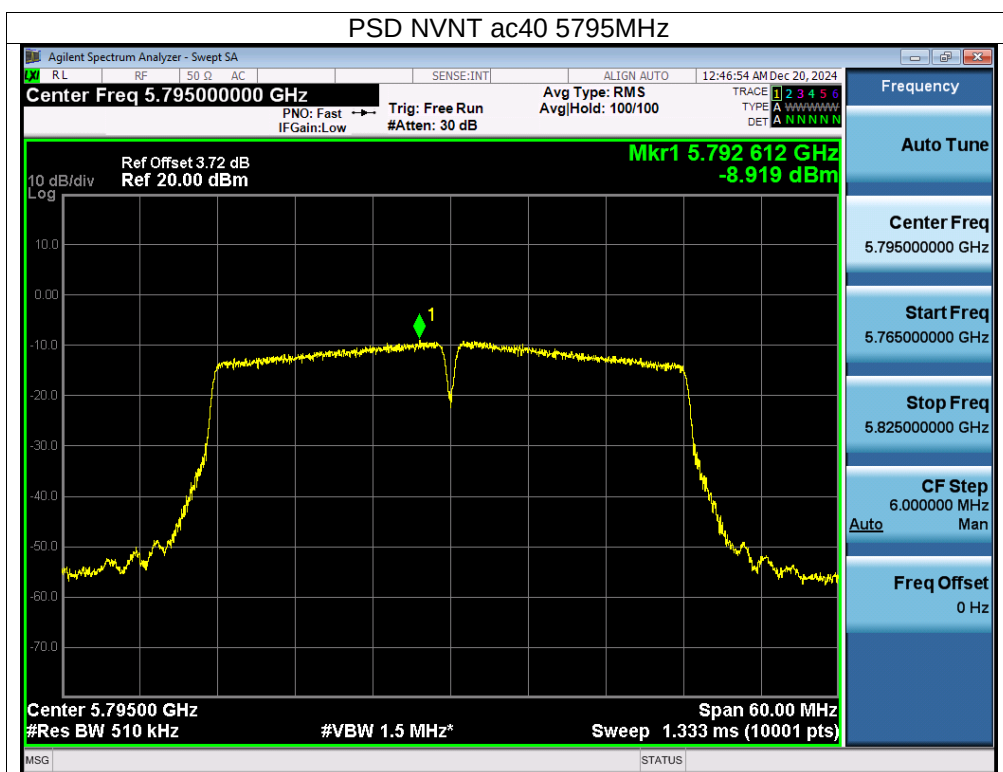
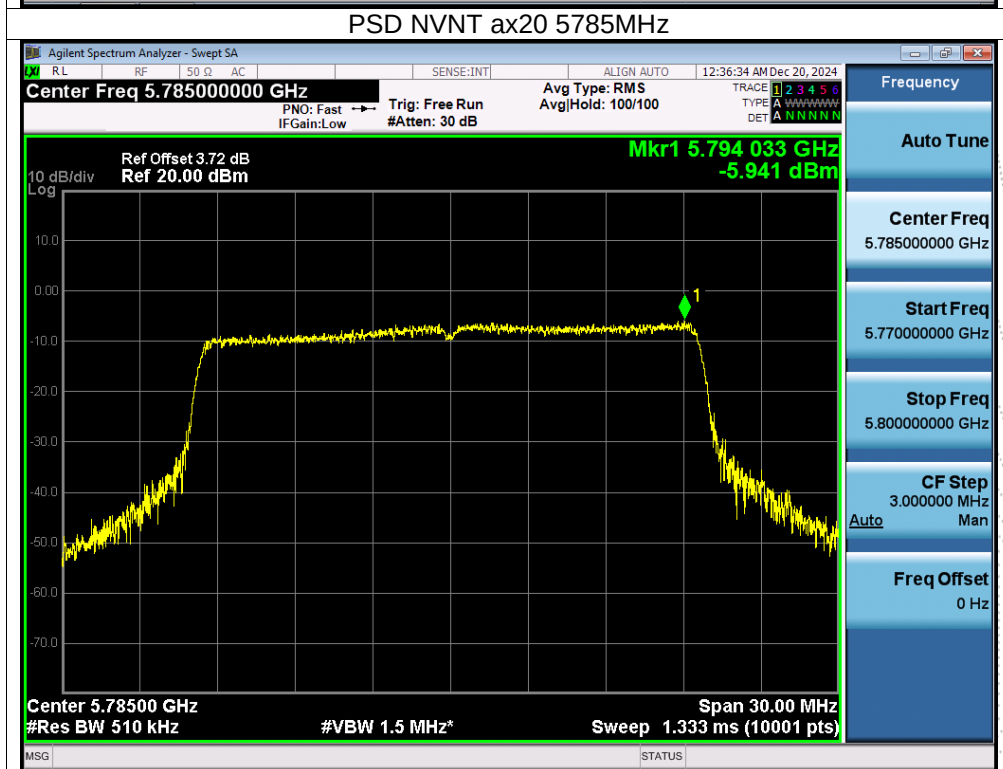
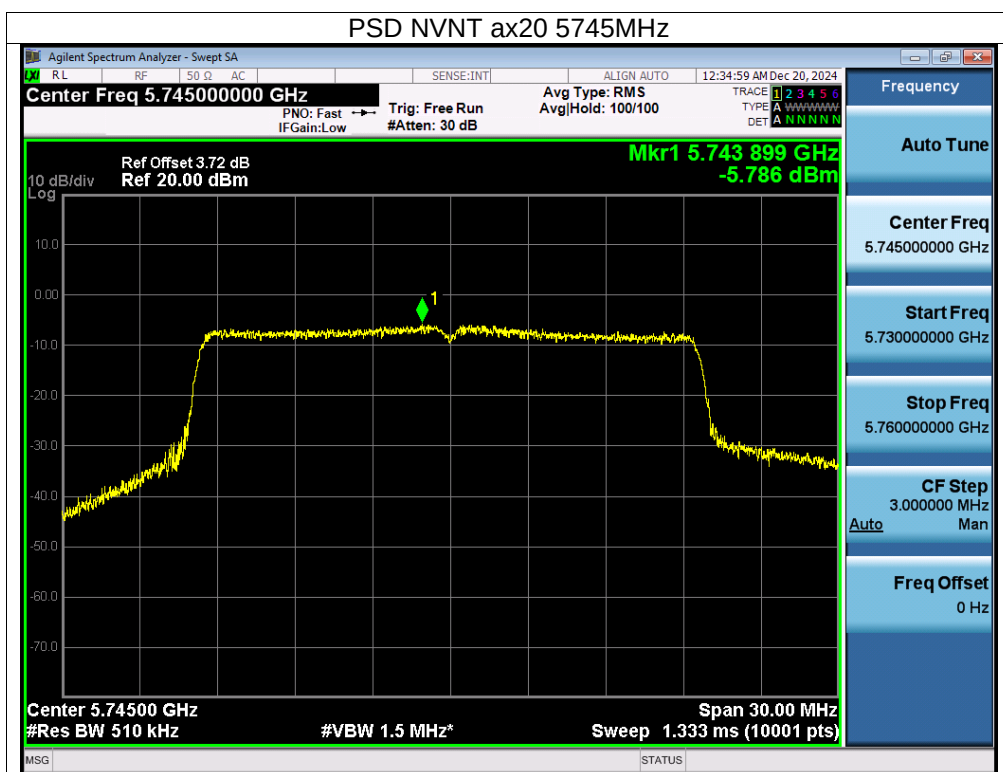


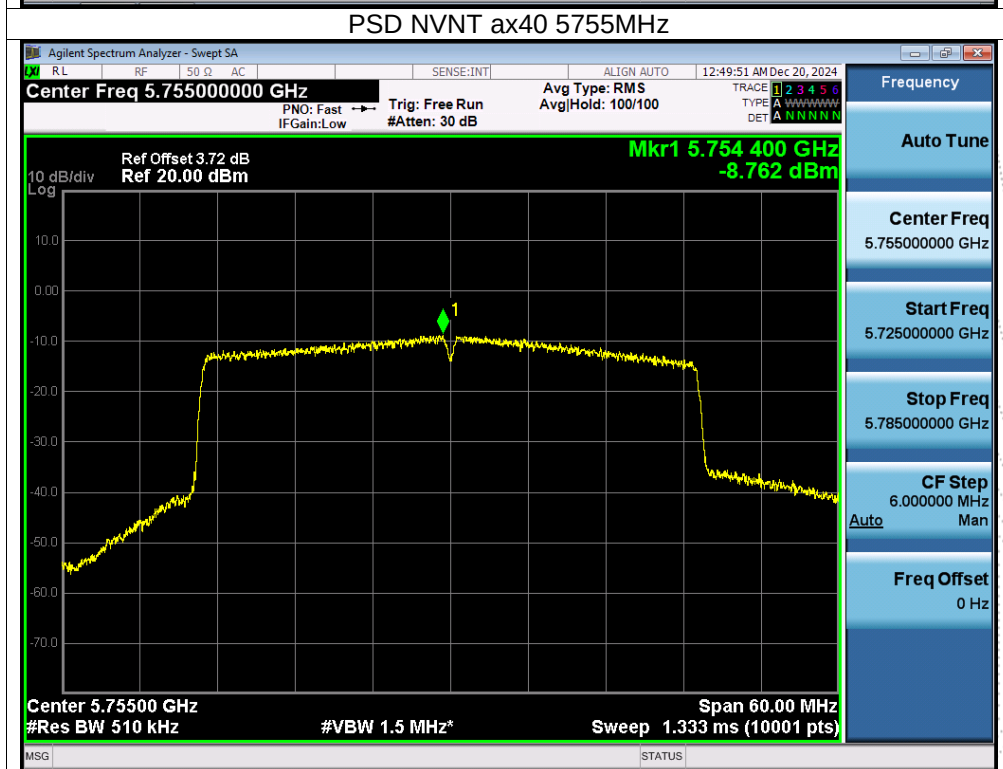
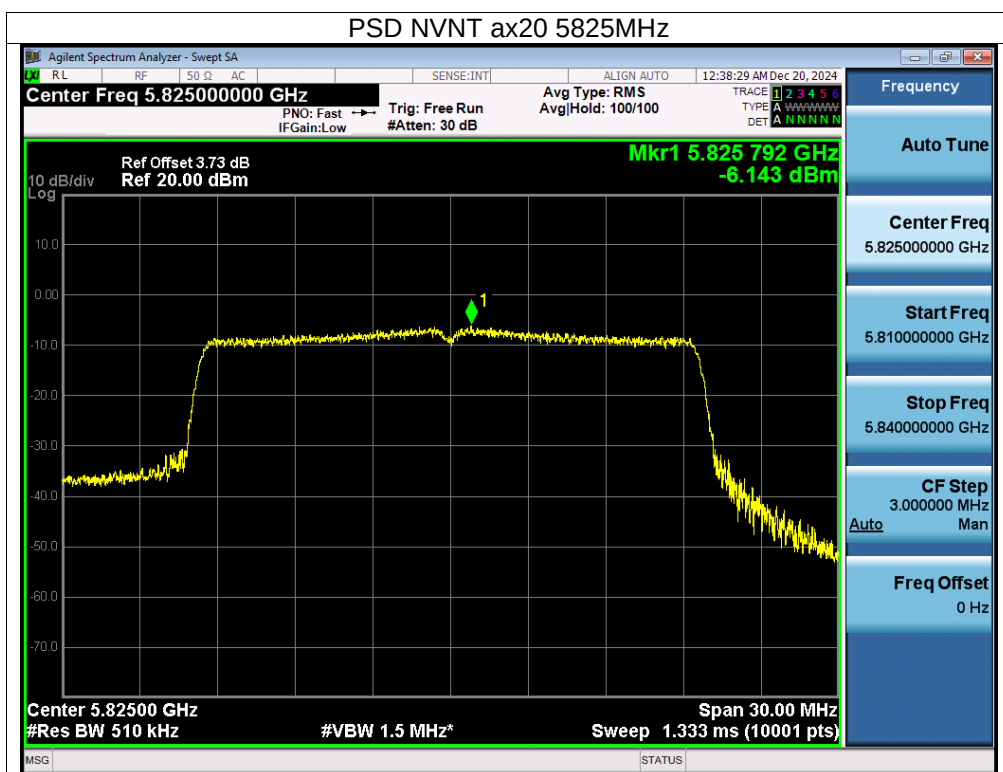


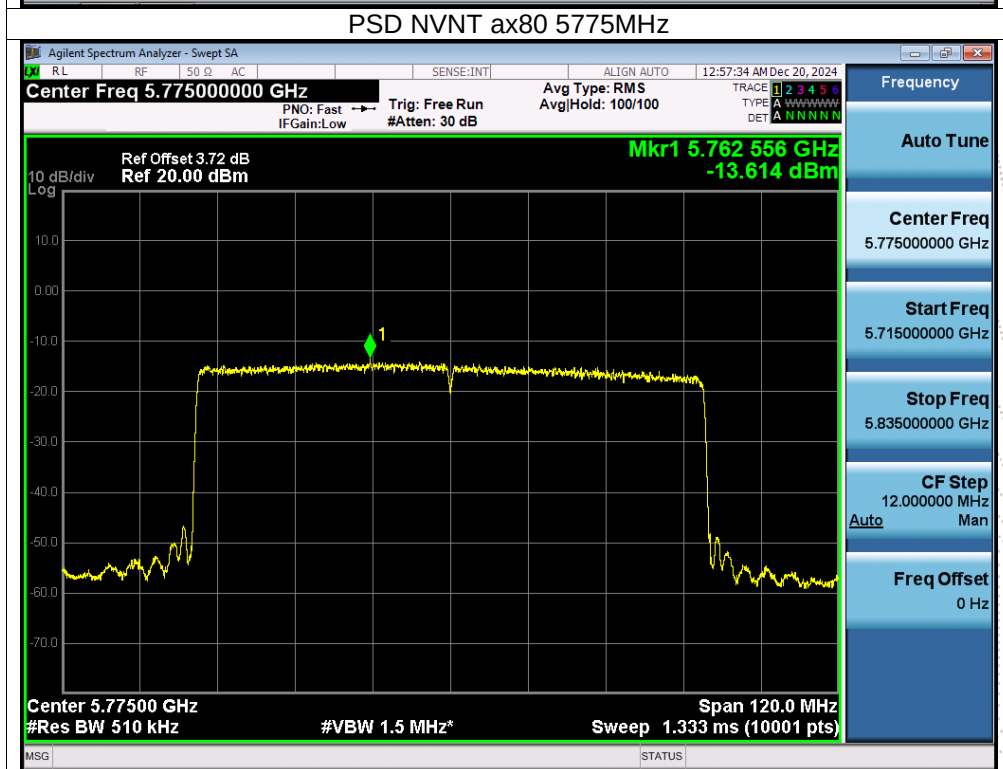
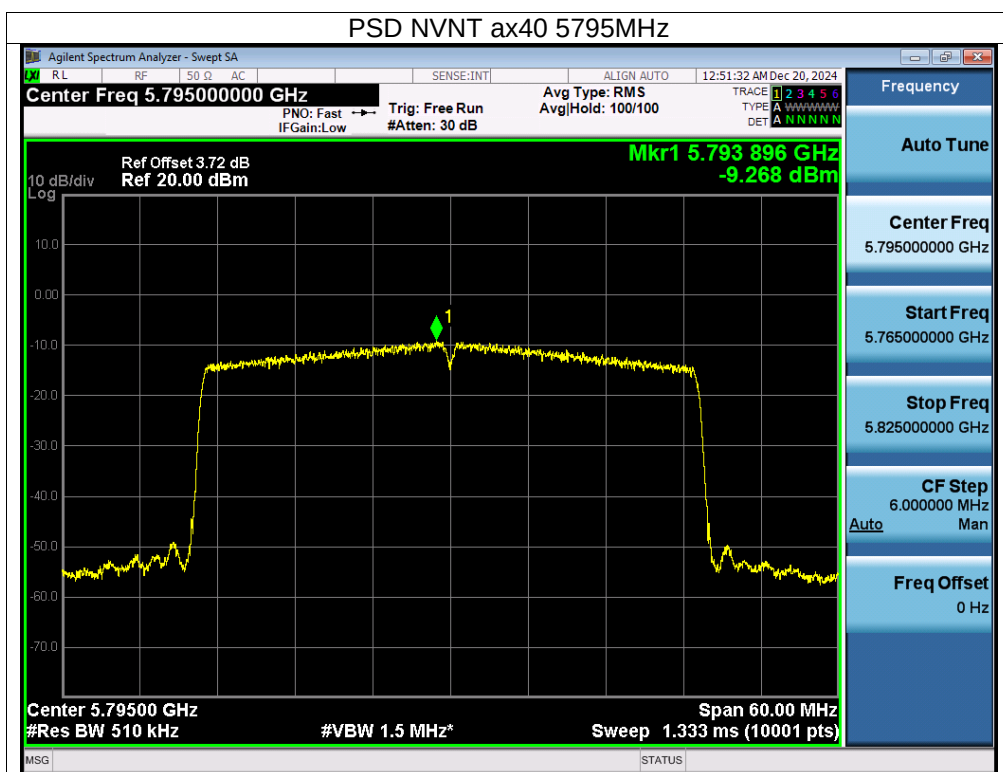






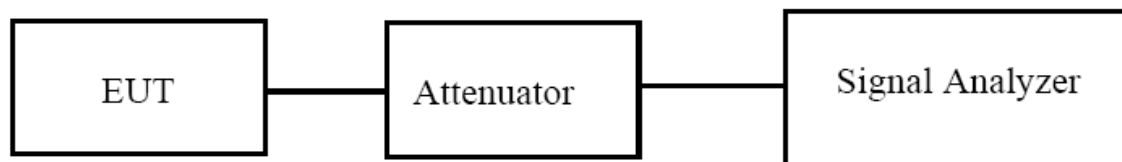






9. 26dB & 6dB & 99% Emission Bandwidth

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

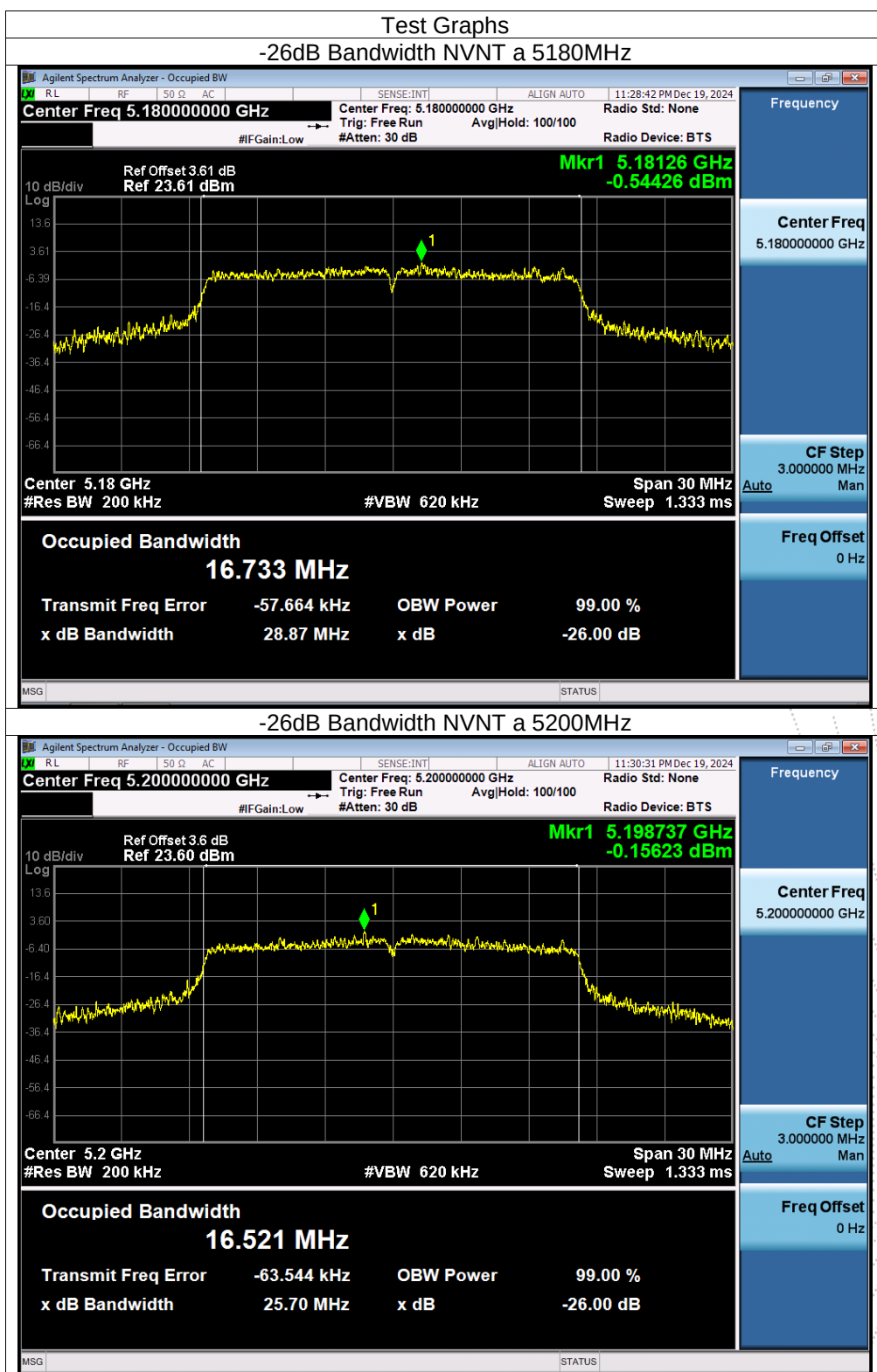
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

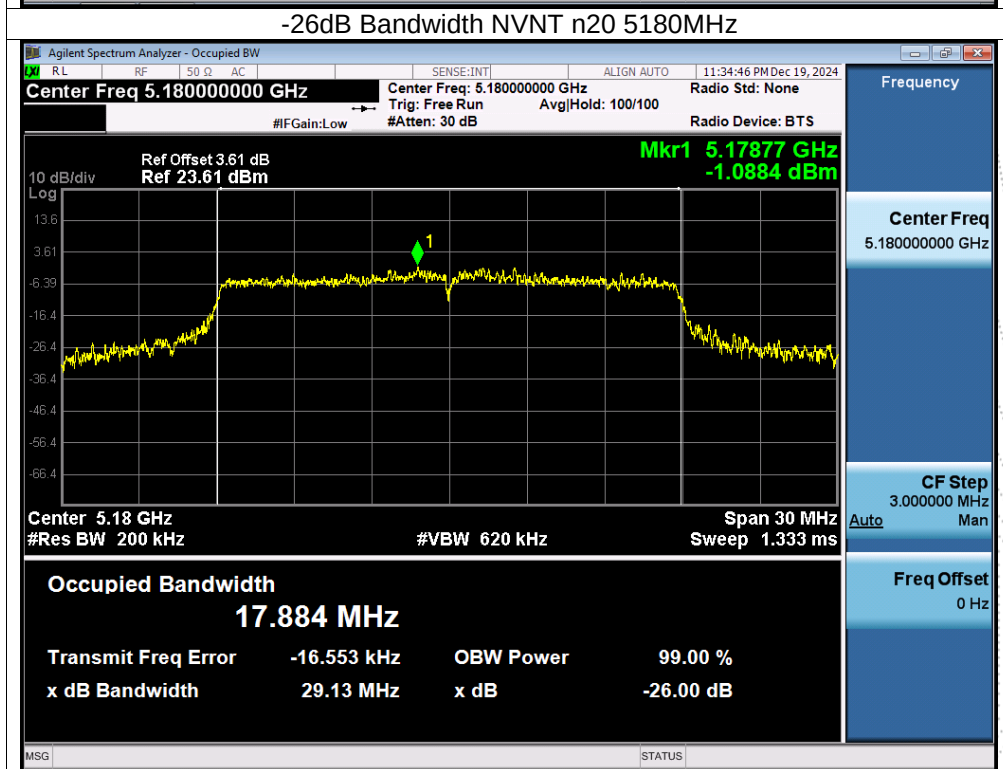
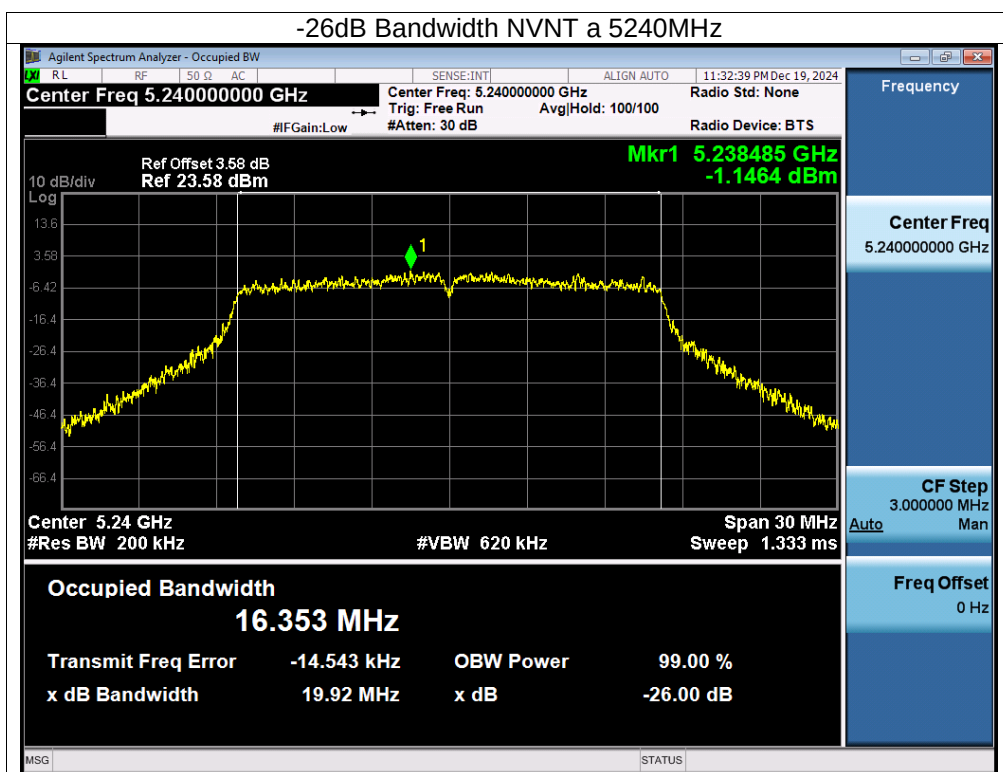
9.5 Test Result

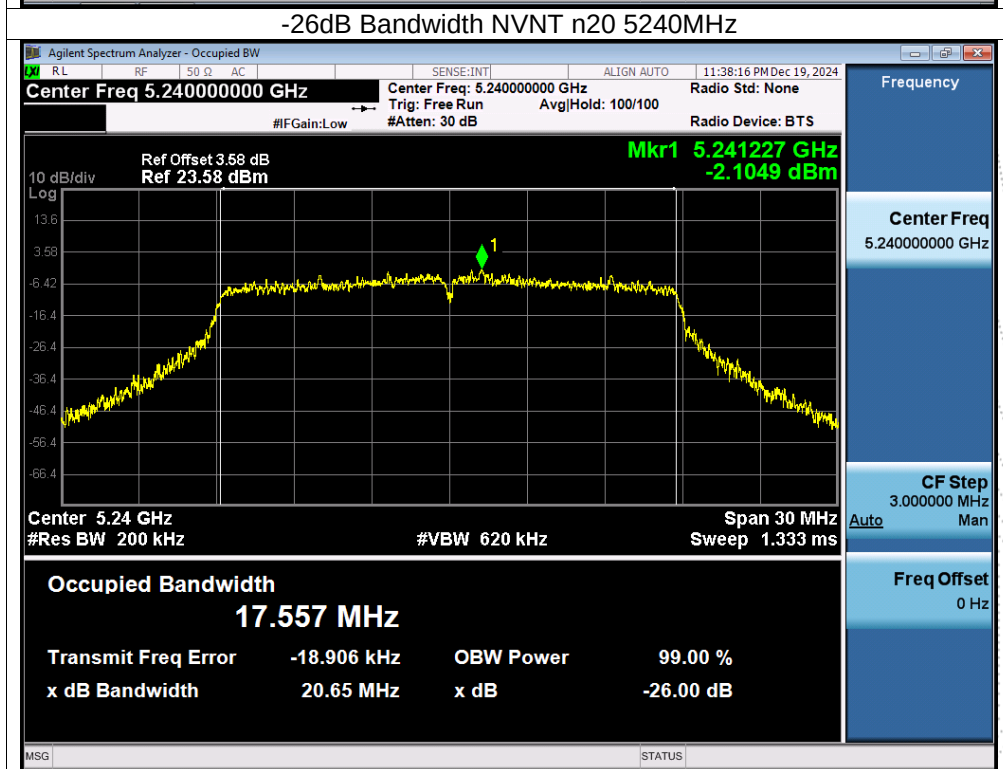
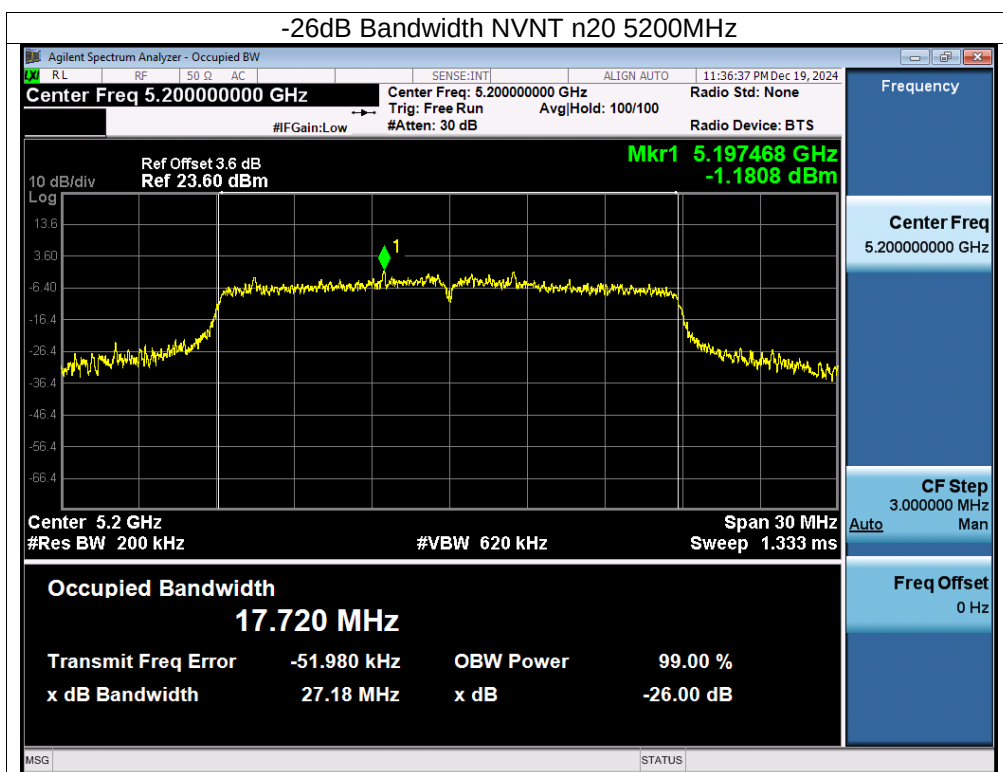
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.87V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

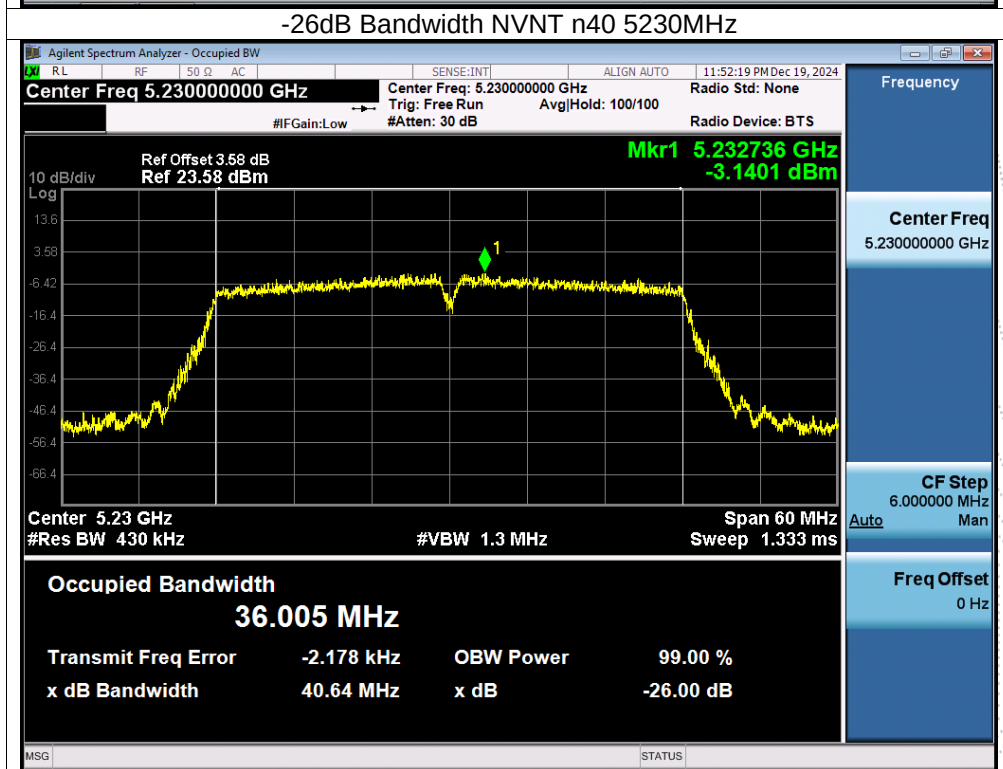
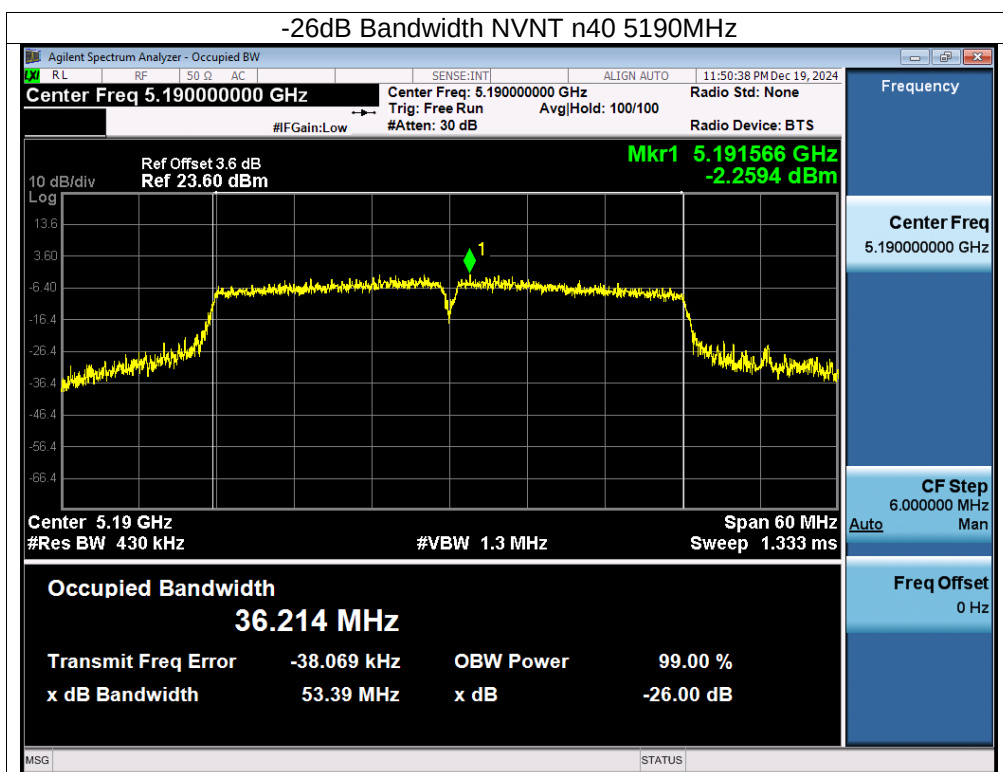
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)		-26dB bandwidth (MHz)		Result
			ANT A	ANT B	ANT A	ANT B	
NVNT	a	5180	17.646	16.766	30	28.866	Pass
NVNT	a	5200	17.029	16.587	28.092	25.696	Pass
NVNT	a	5240	16.577	16.356	21.68	19.923	Pass
NVNT	n20	5180	18.453	17.89	30	29.134	Pass
NVNT	n20	5200	18.118	17.716	29.618	27.183	Pass
NVNT	n20	5240	17.82	17.572	22.405	20.647	Pass
NVNT	n40	5190	36.272	36.211	48.409	53.389	Pass
NVNT	n40	5230	36.063	36.047	40.438	40.644	Pass
NVNT	ac20	5180	18.466	17.872	29.769	29.28	Pass
NVNT	ac20	5200	18.131	17.721	29.938	24.403	Pass
NVNT	ac20	5240	17.81	17.58	23.451	20.952	Pass
NVNT	ac40	5190	36.293	36.194	52.37	51.414	Pass
NVNT	ac40	5230	36.082	36.013	40.593	40.571	Pass
NVNT	ac80	5210	75.939	75.91	107.731	108.494	Pass
NVNT	ax20	5180	19.121	18.907	29.638	22.467	Pass
NVNT	ax20	5200	19.197	18.904	29.893	24.291	Pass
NVNT	ax20	5240	19.028	18.848	22.099	21.068	Pass
NVNT	ax40	5190	37.699	37.619	49.627	46.89	Pass
NVNT	ax40	5230	37.559	37.505	39.519	39.248	Pass
NVNT	ax80	5210	77.536	77.667	95.969	98.79	Pass

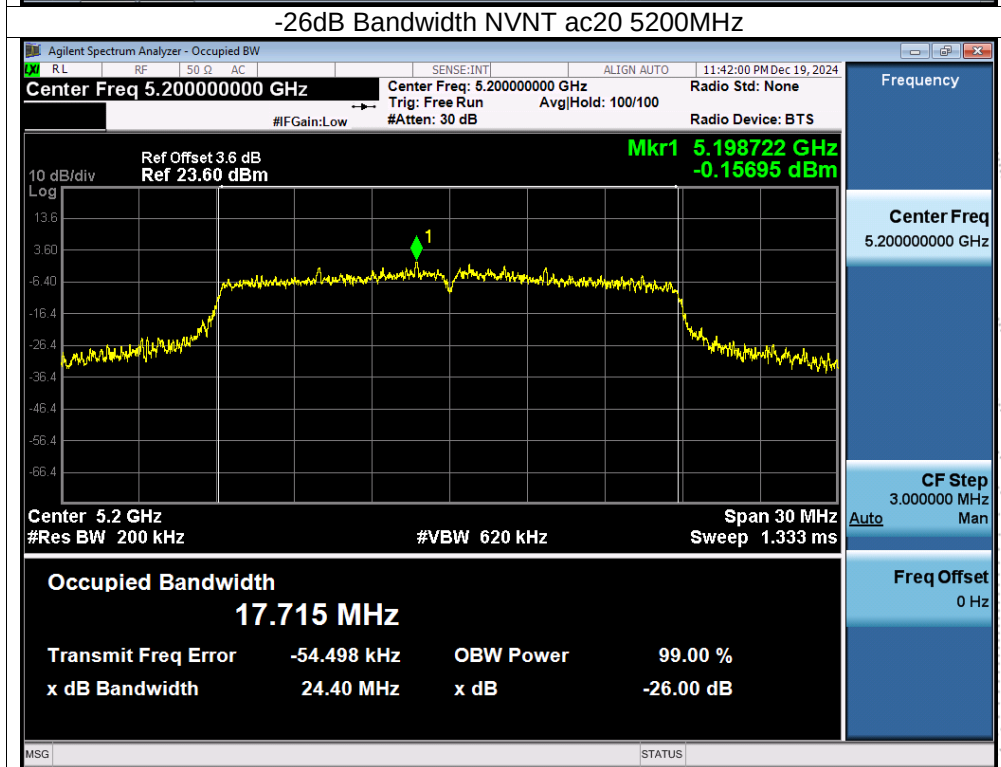
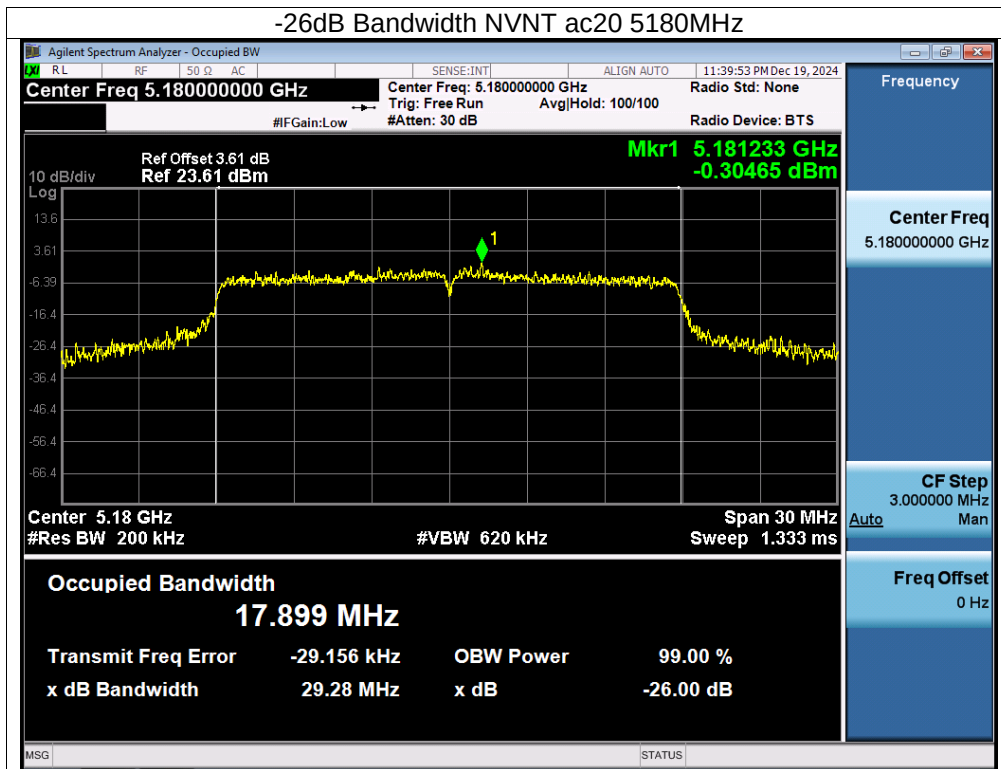
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

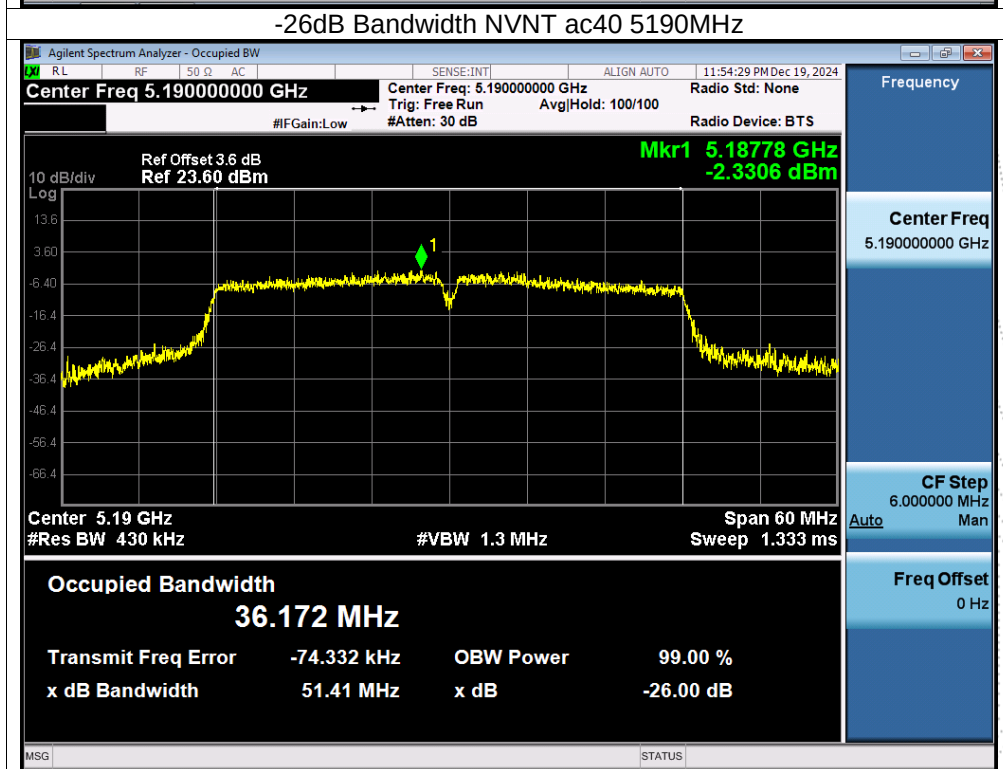
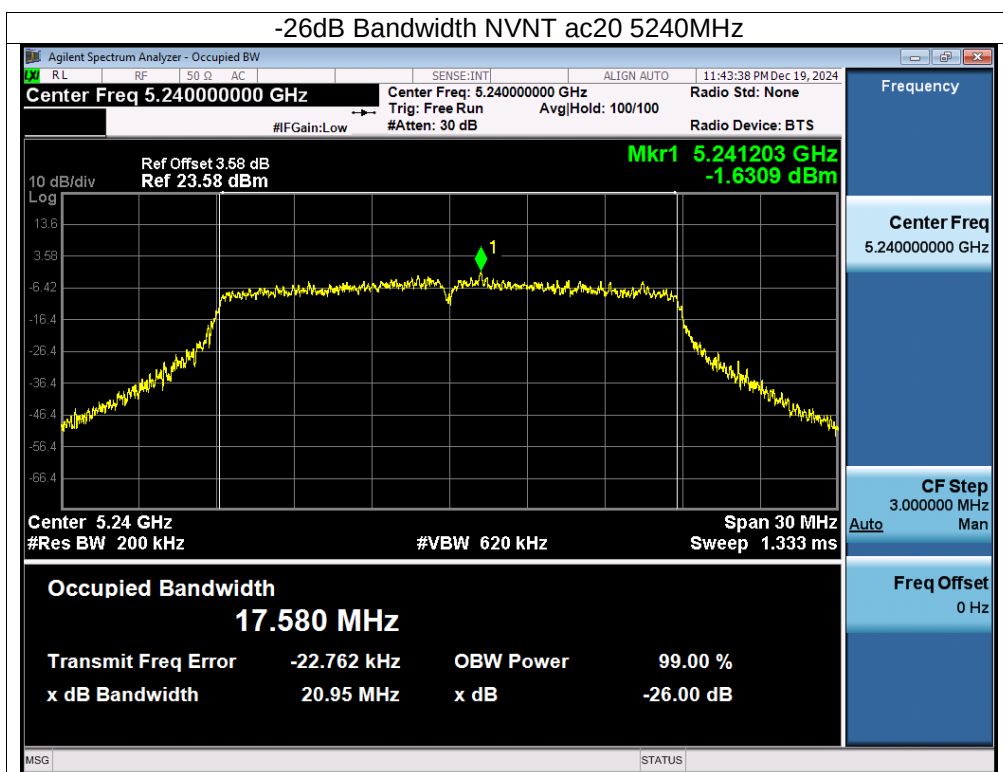


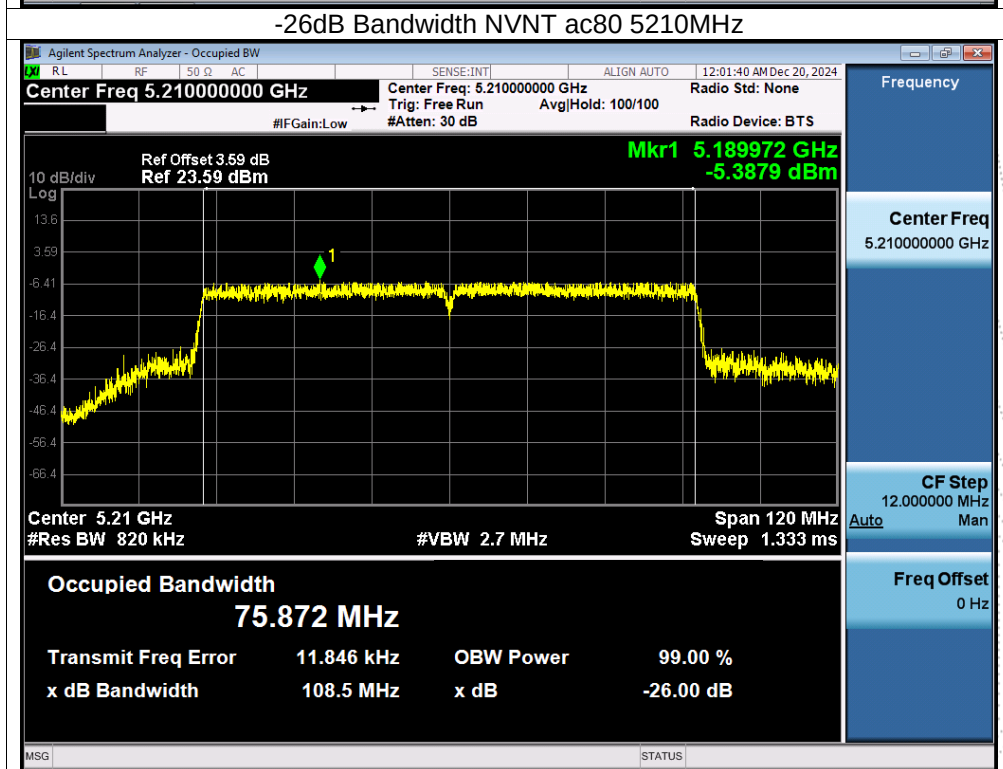
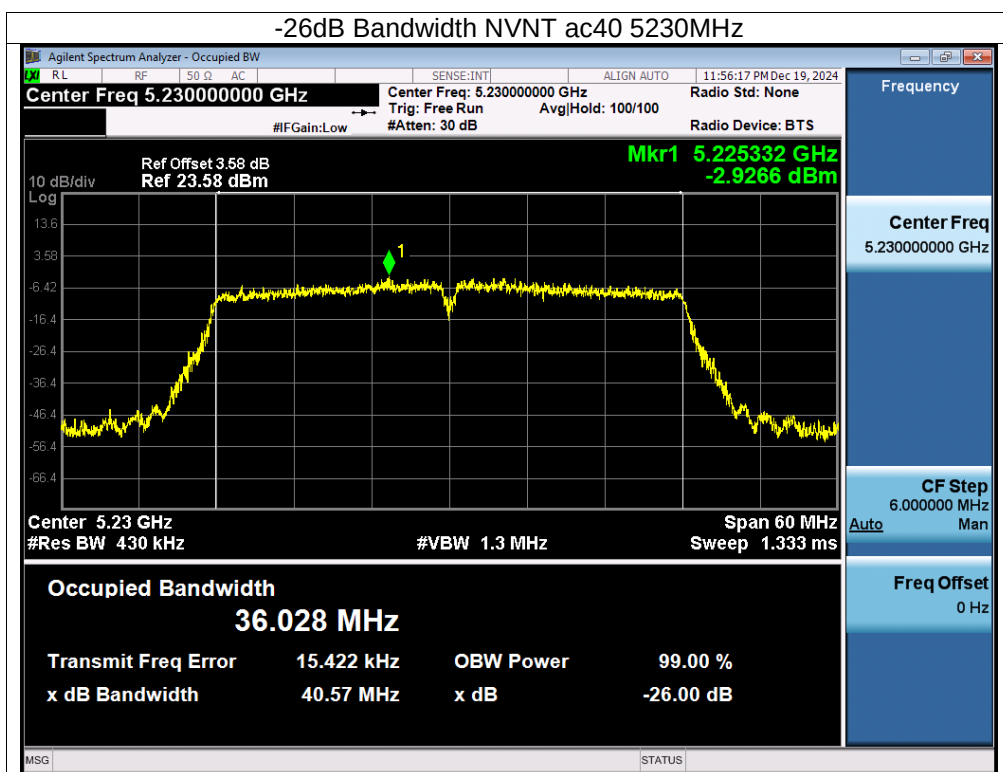


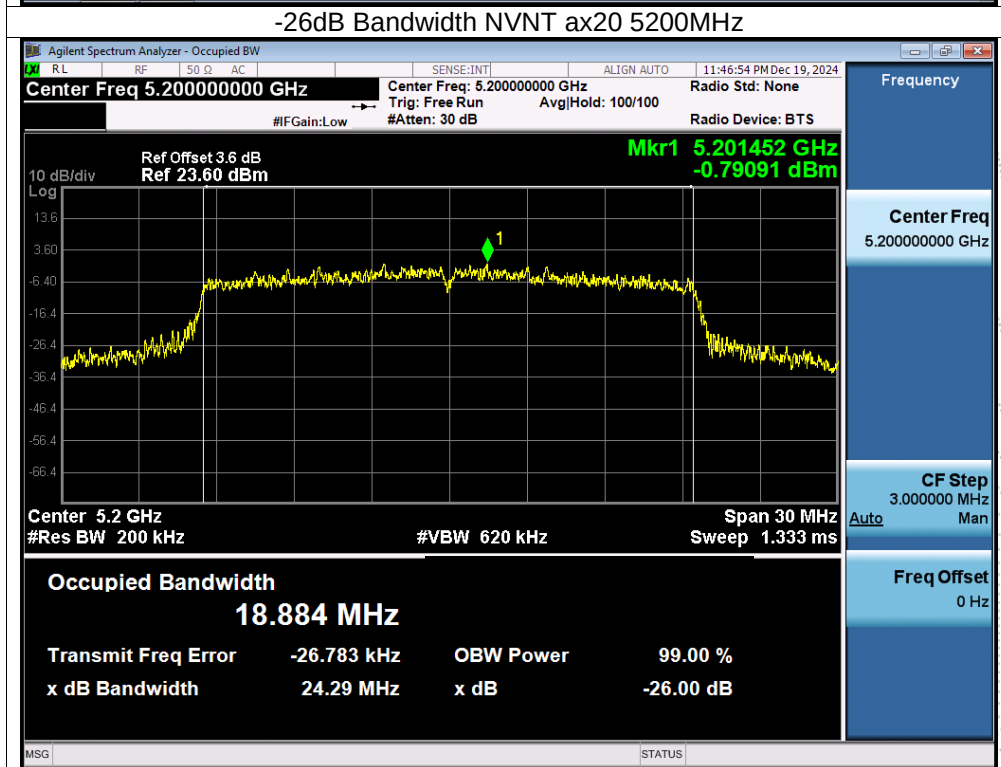
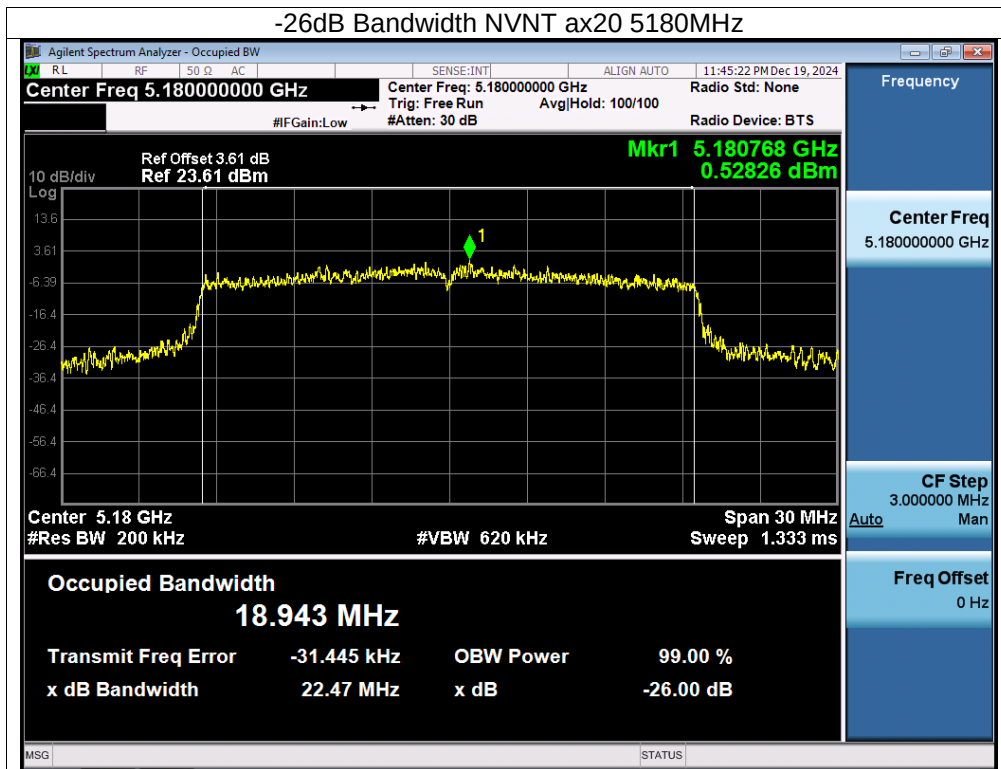


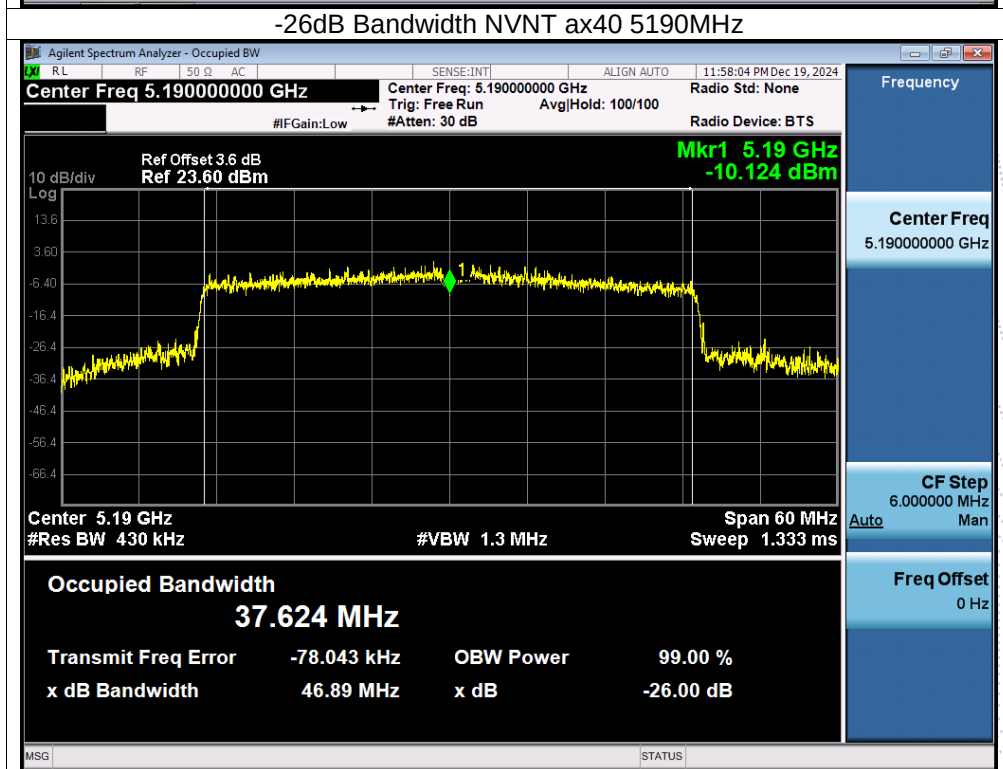
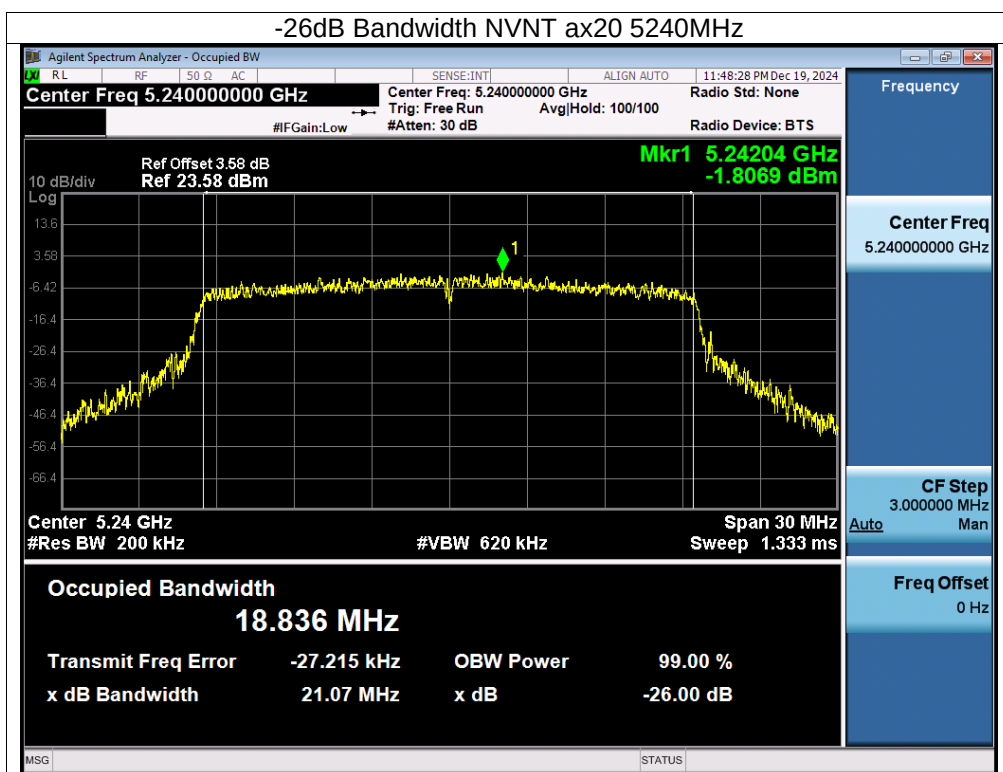


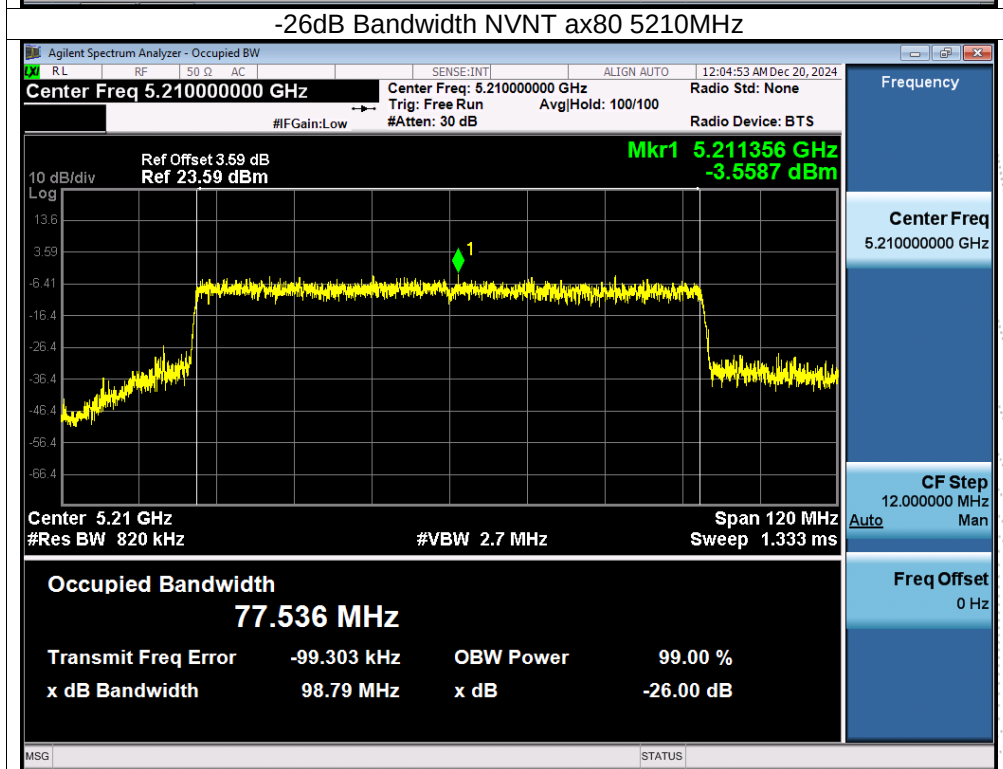
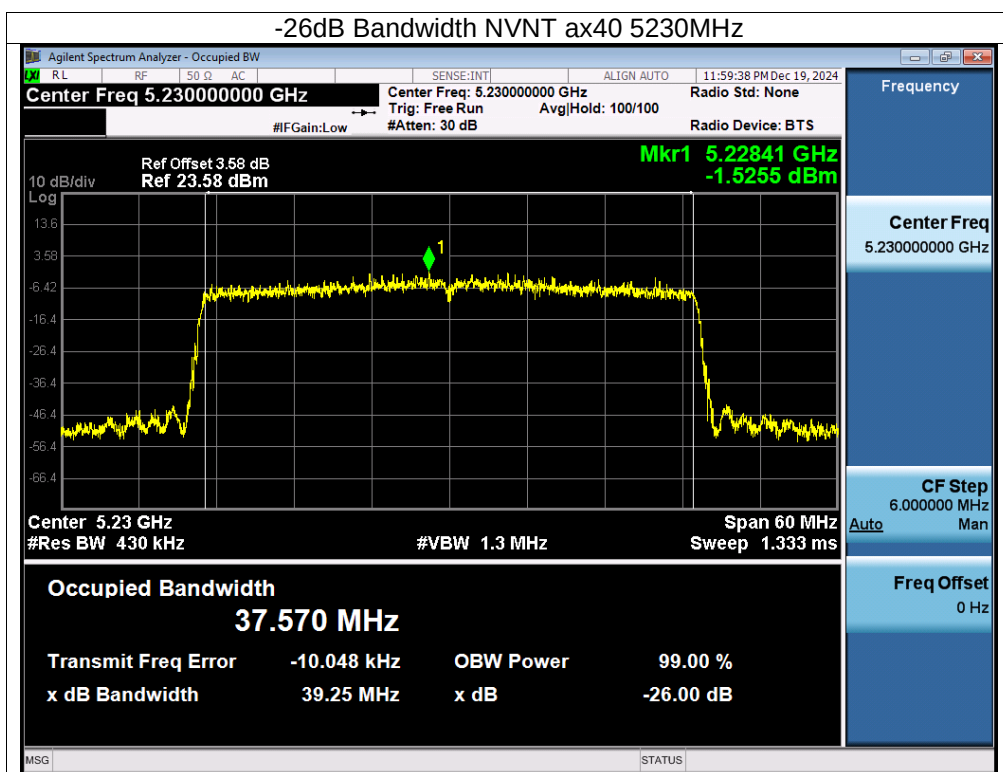




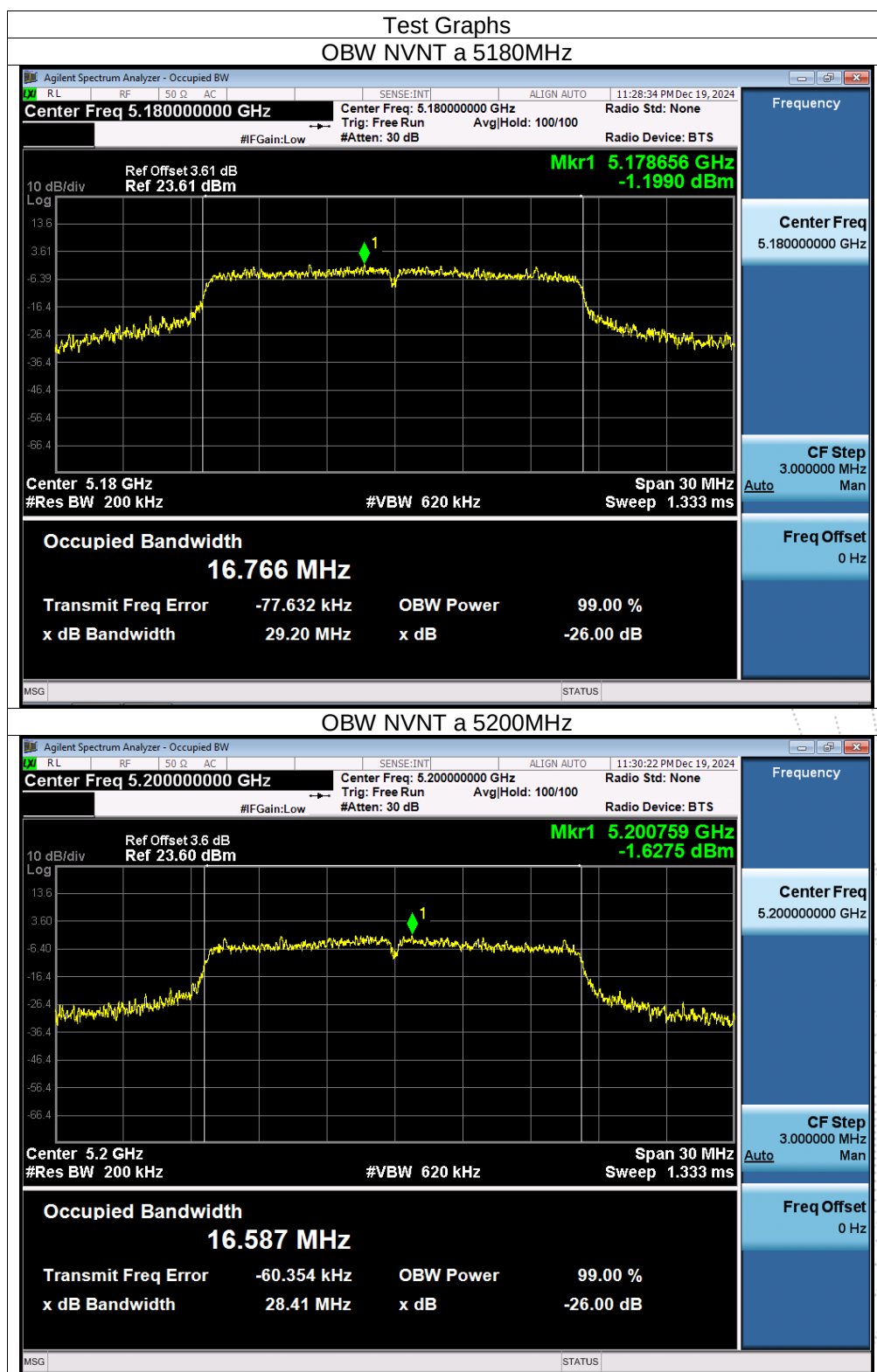


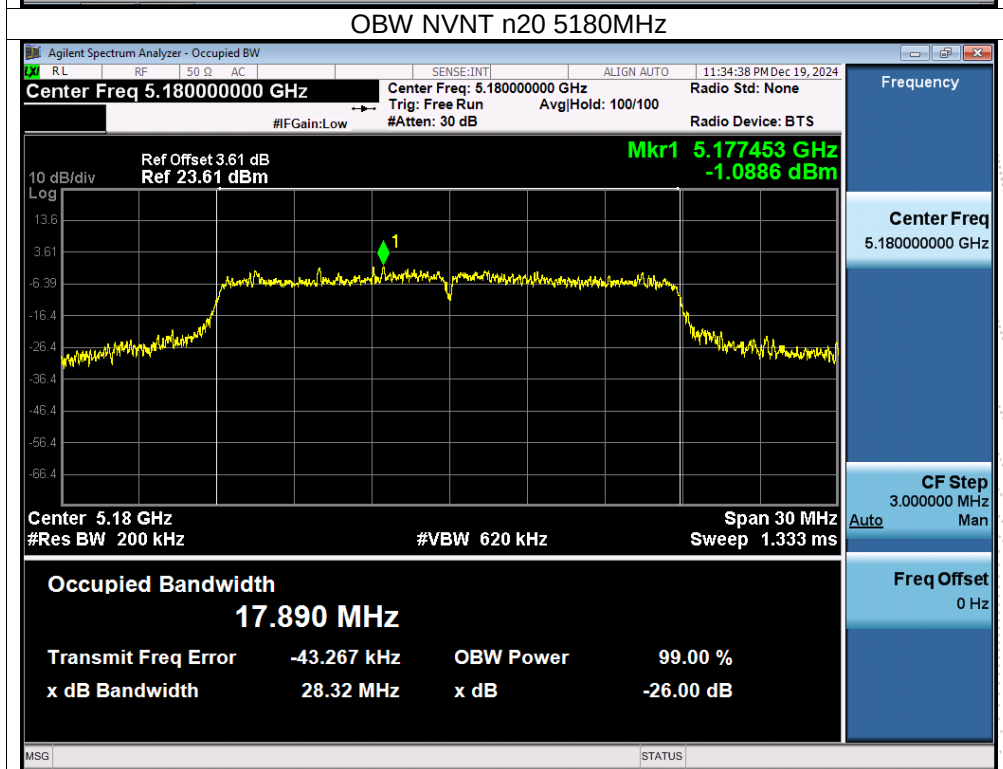
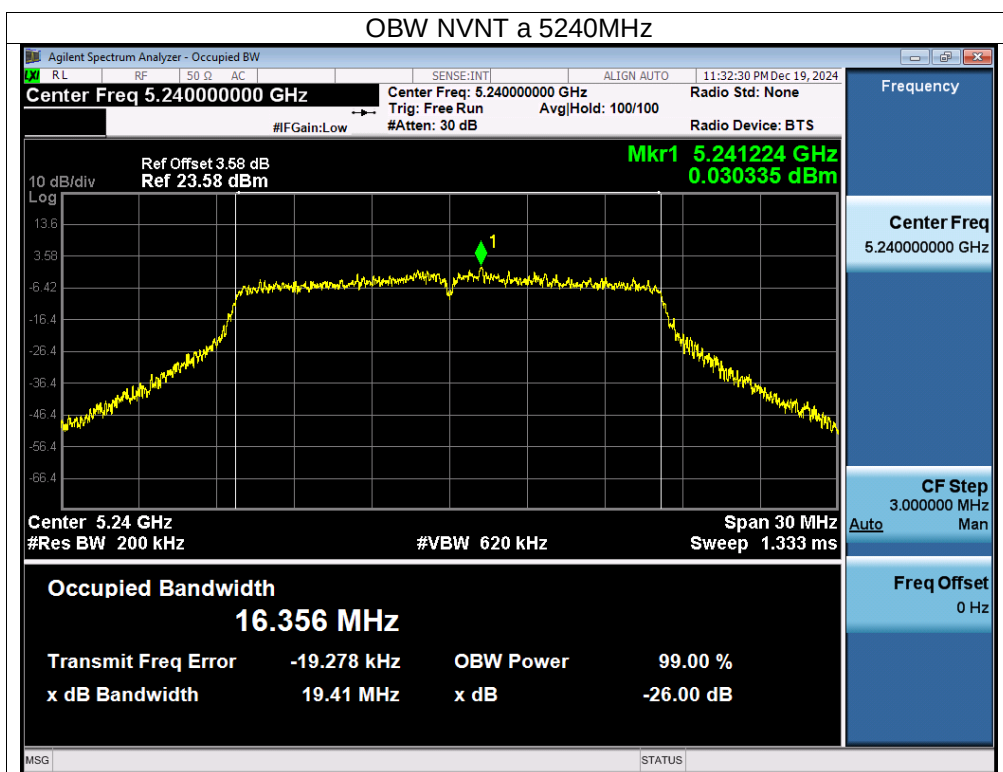


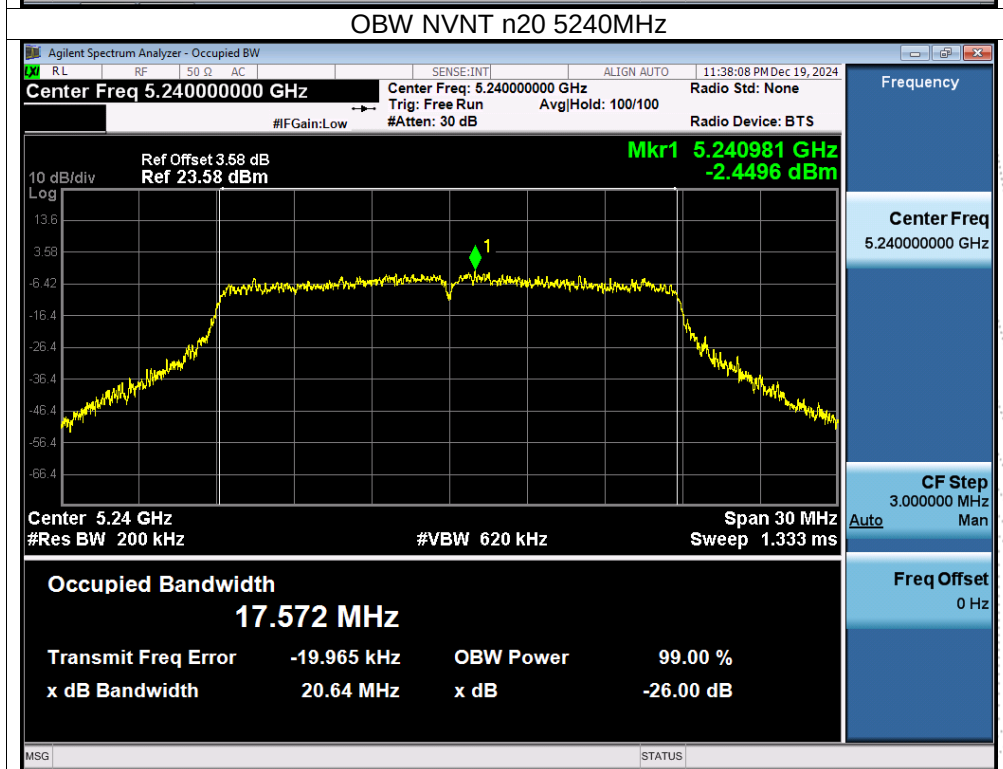
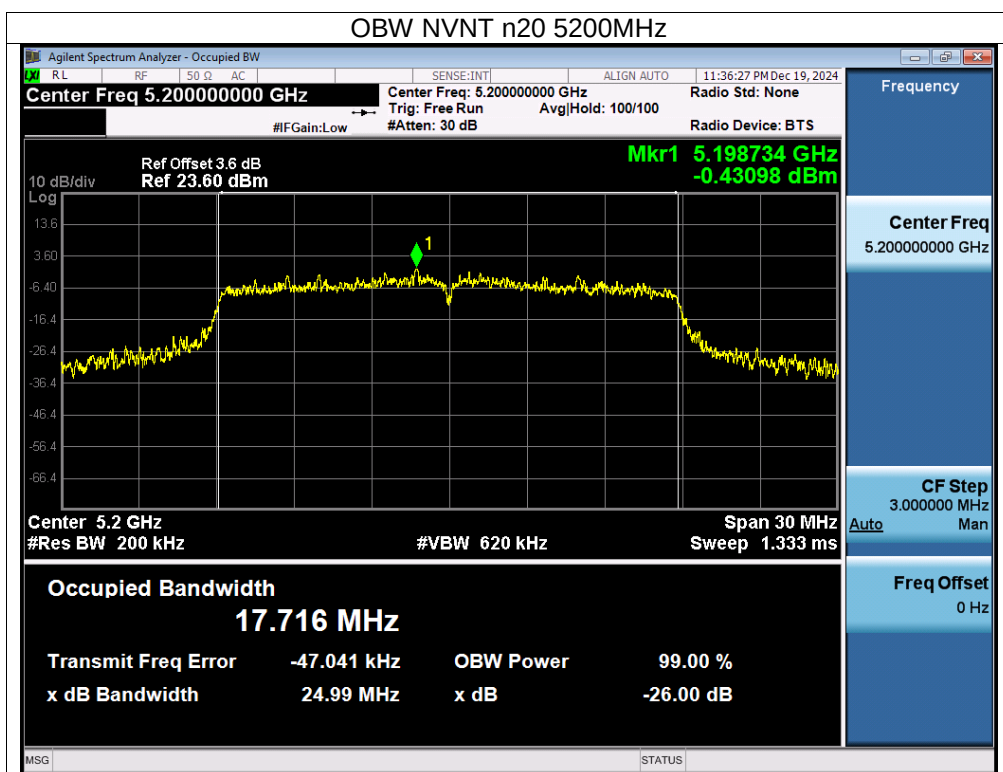


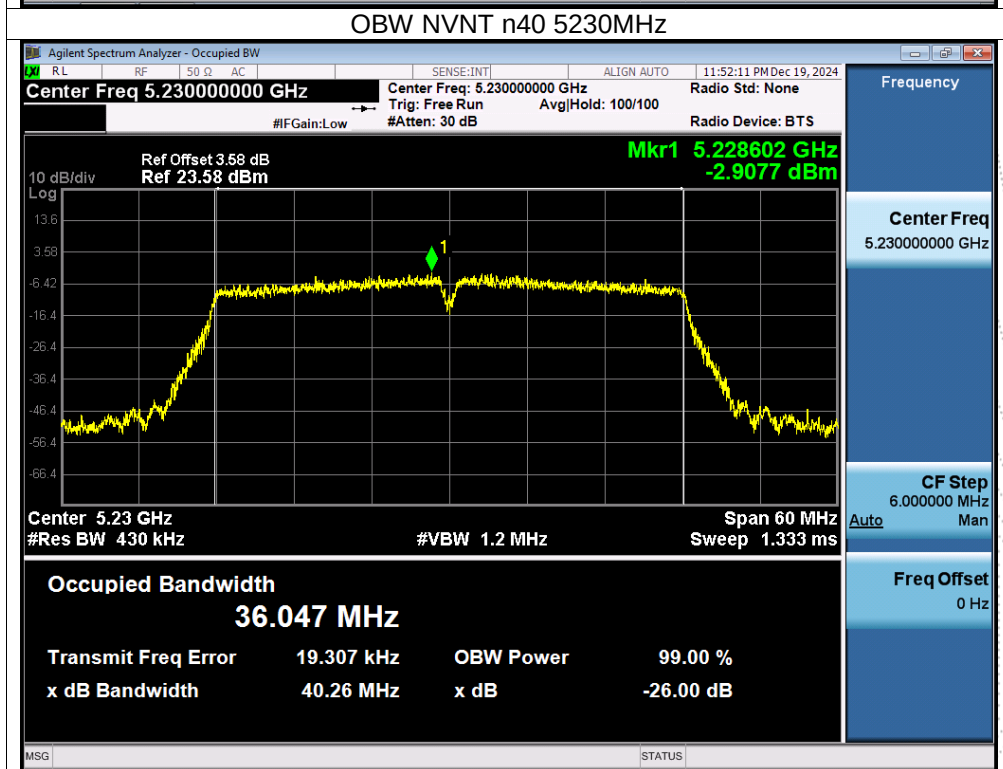
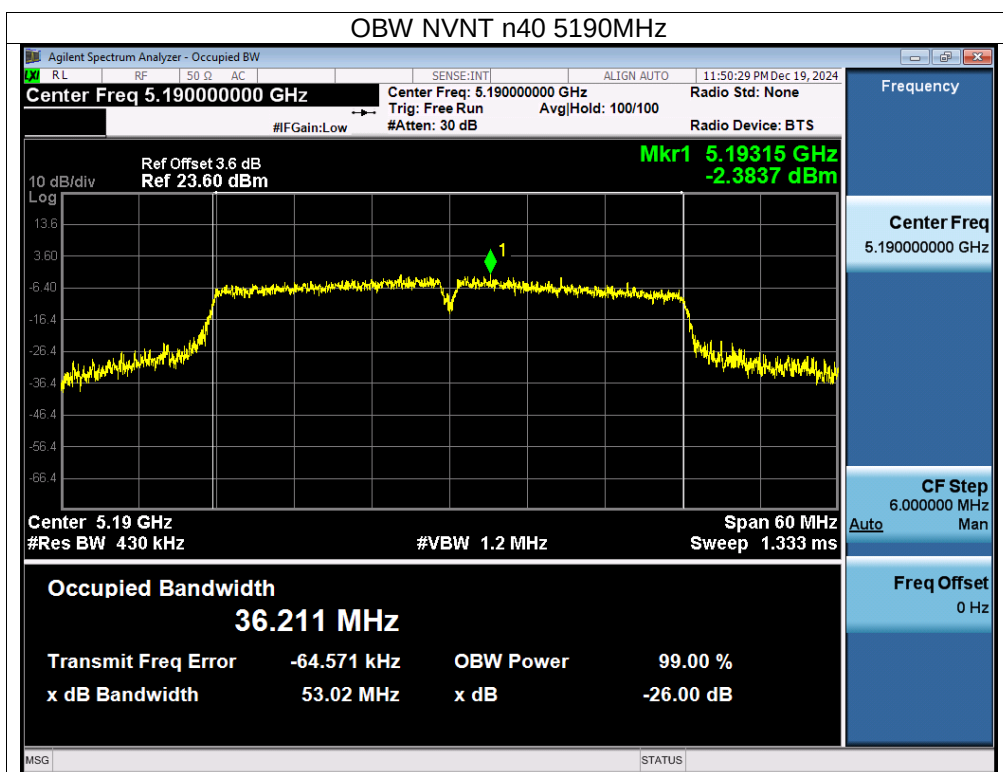


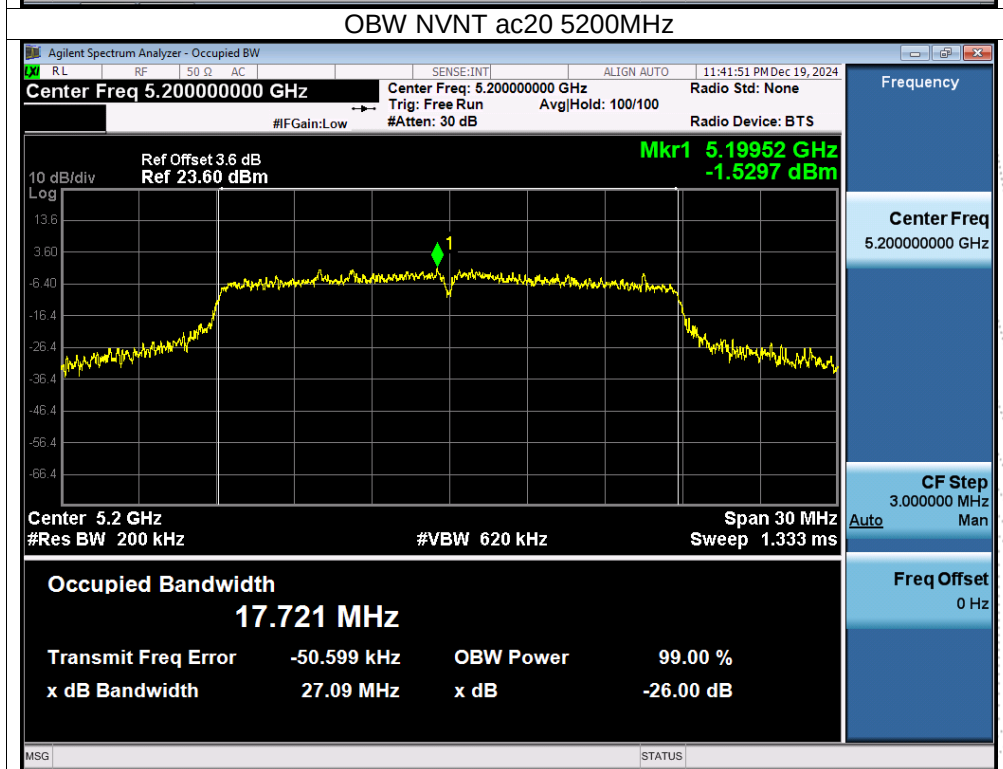
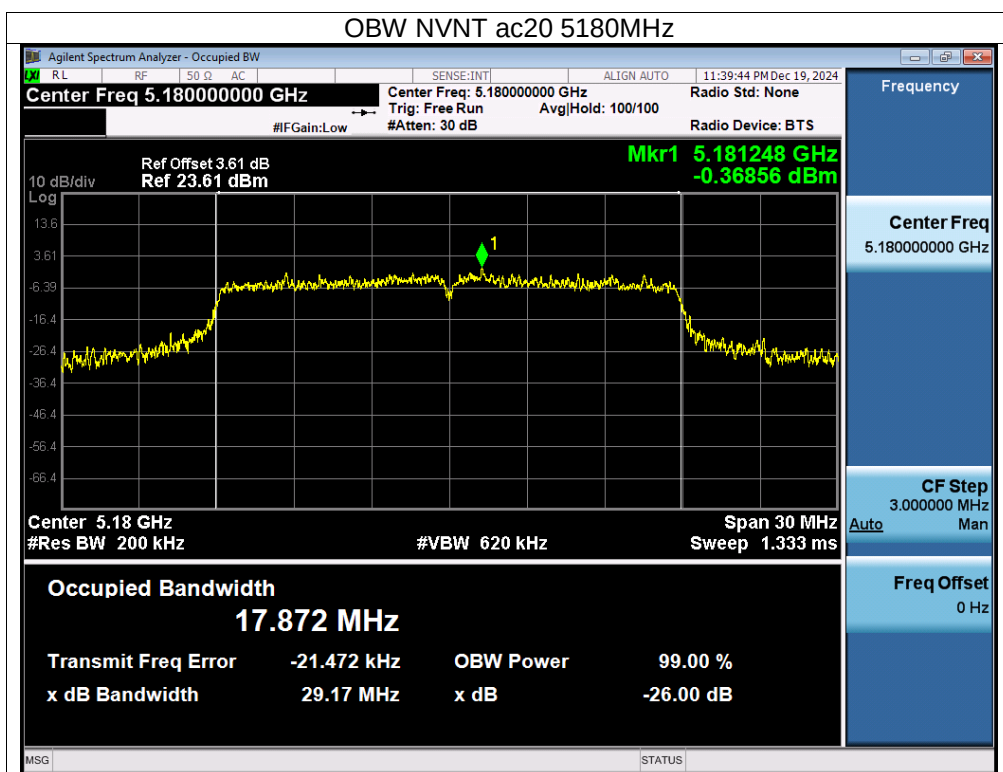
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

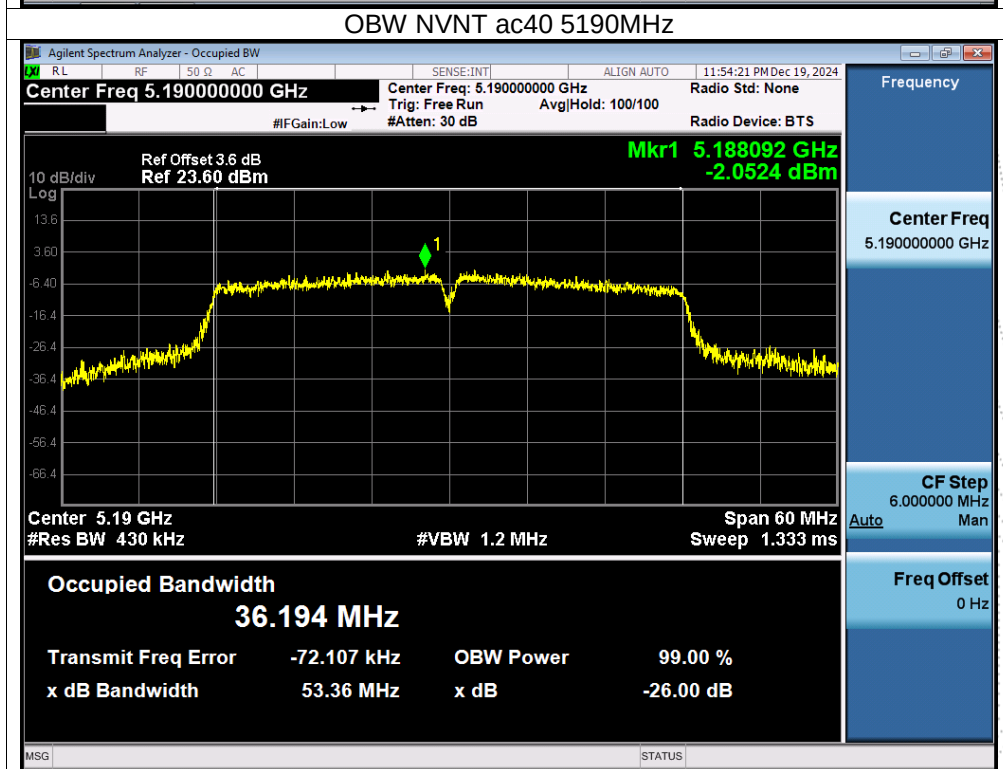
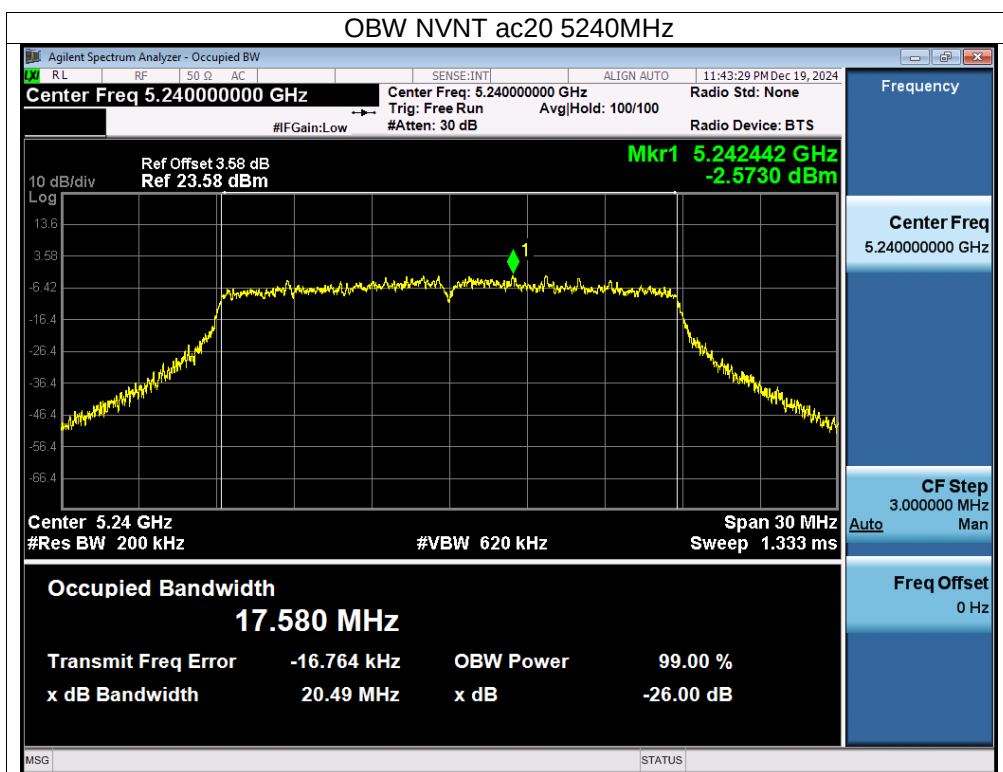


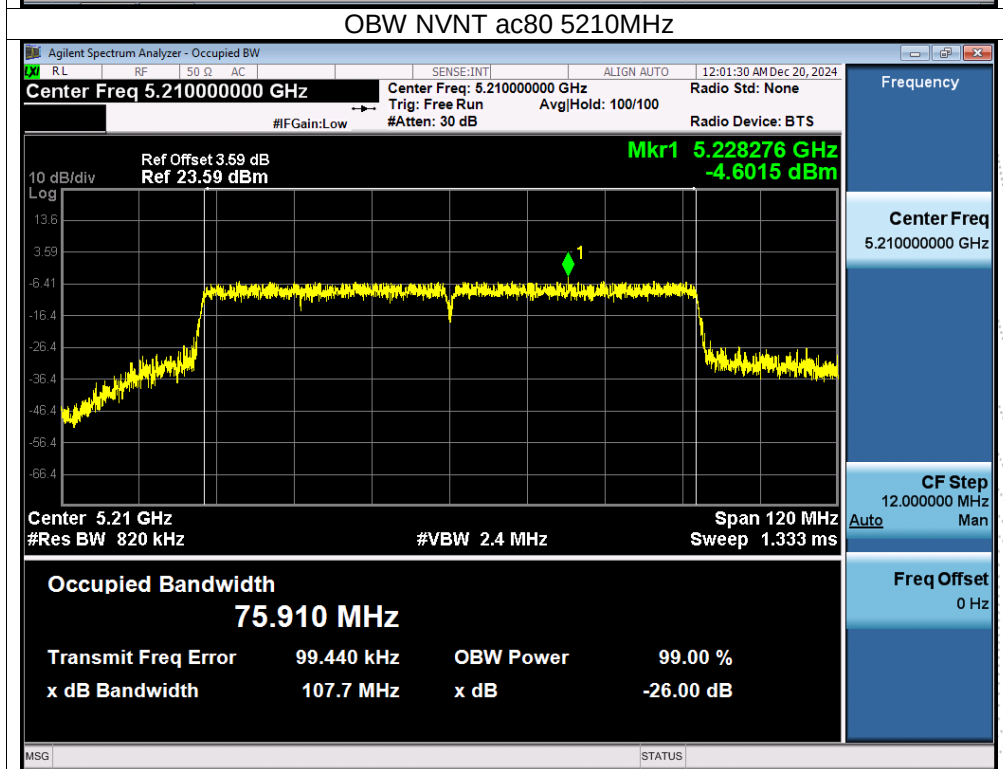
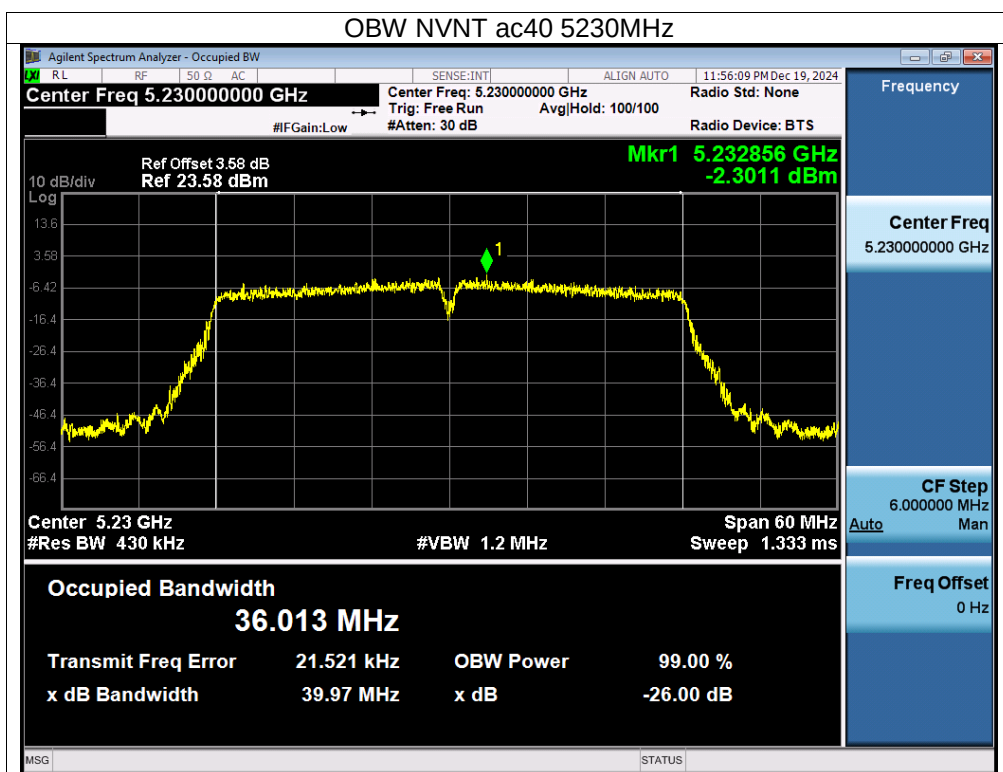


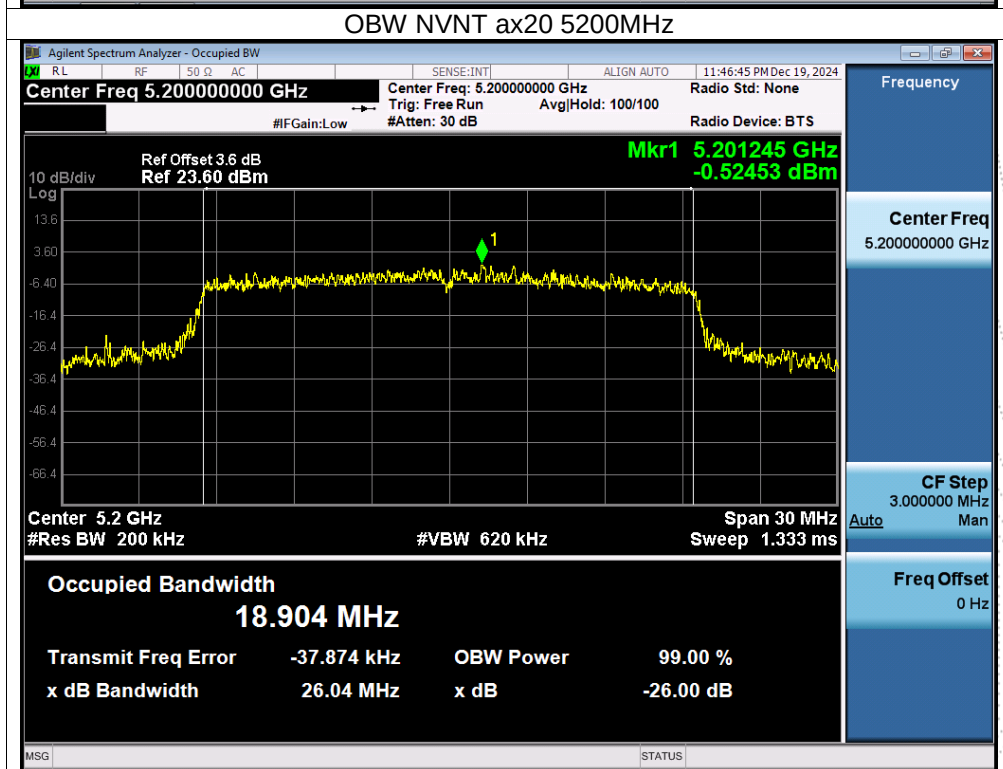
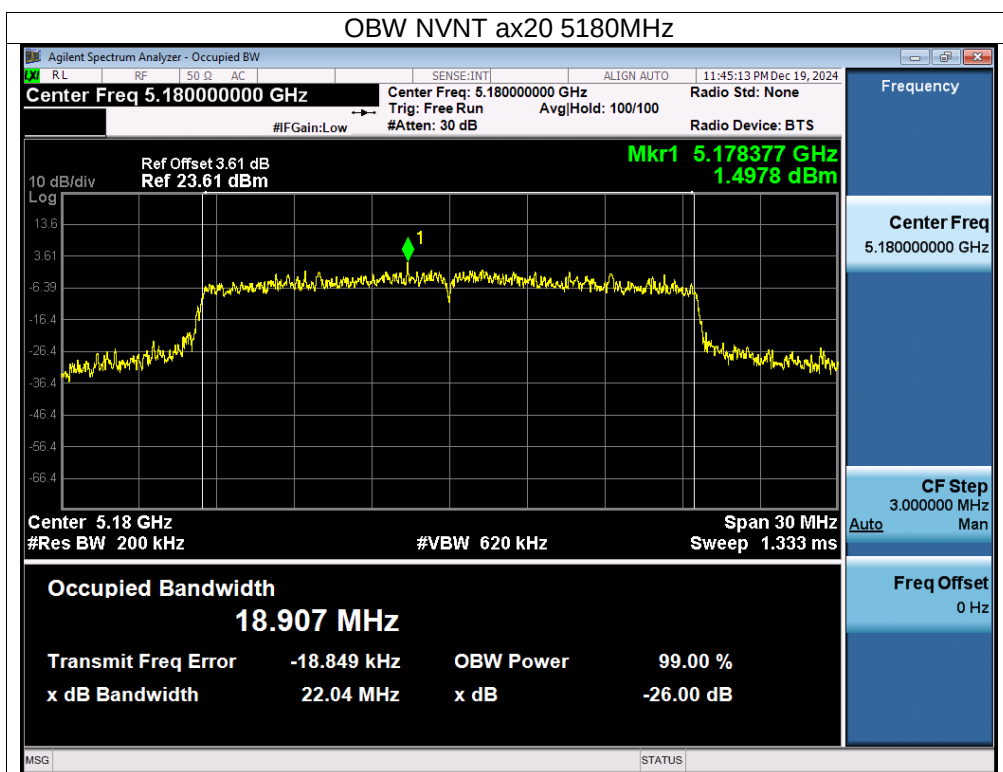


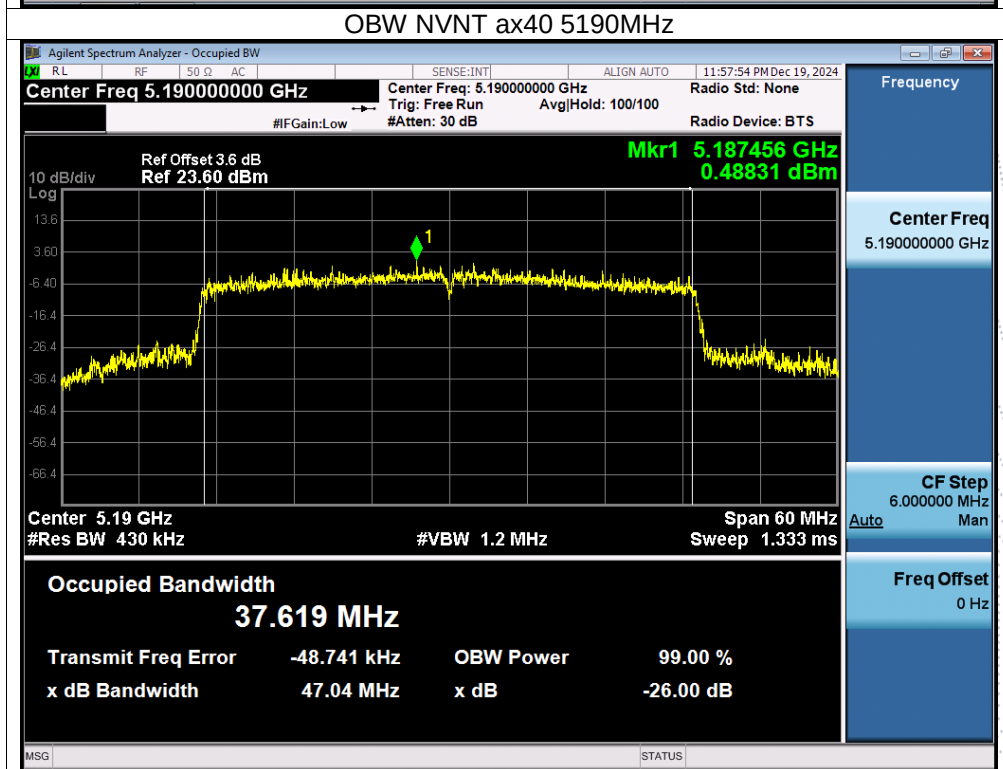
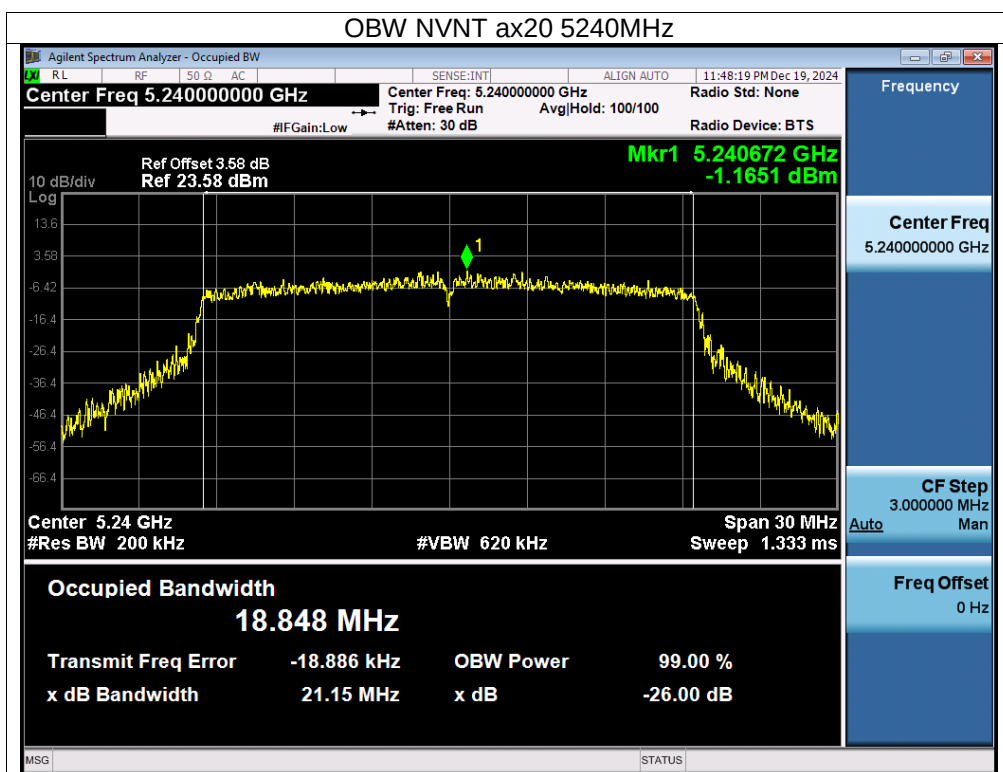


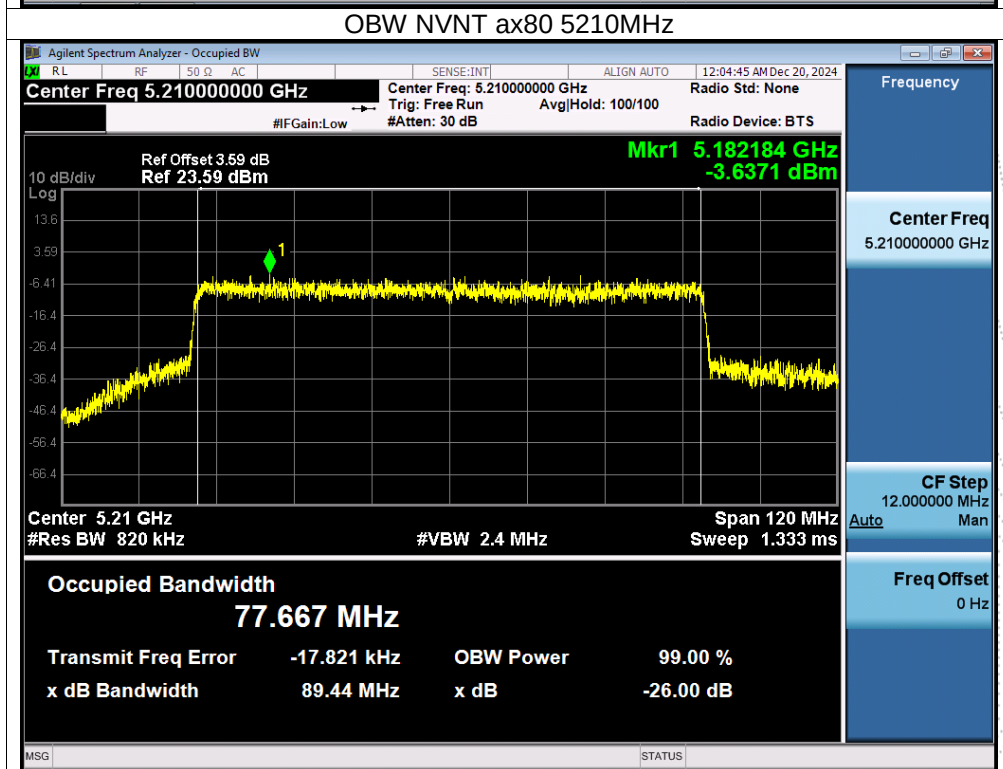
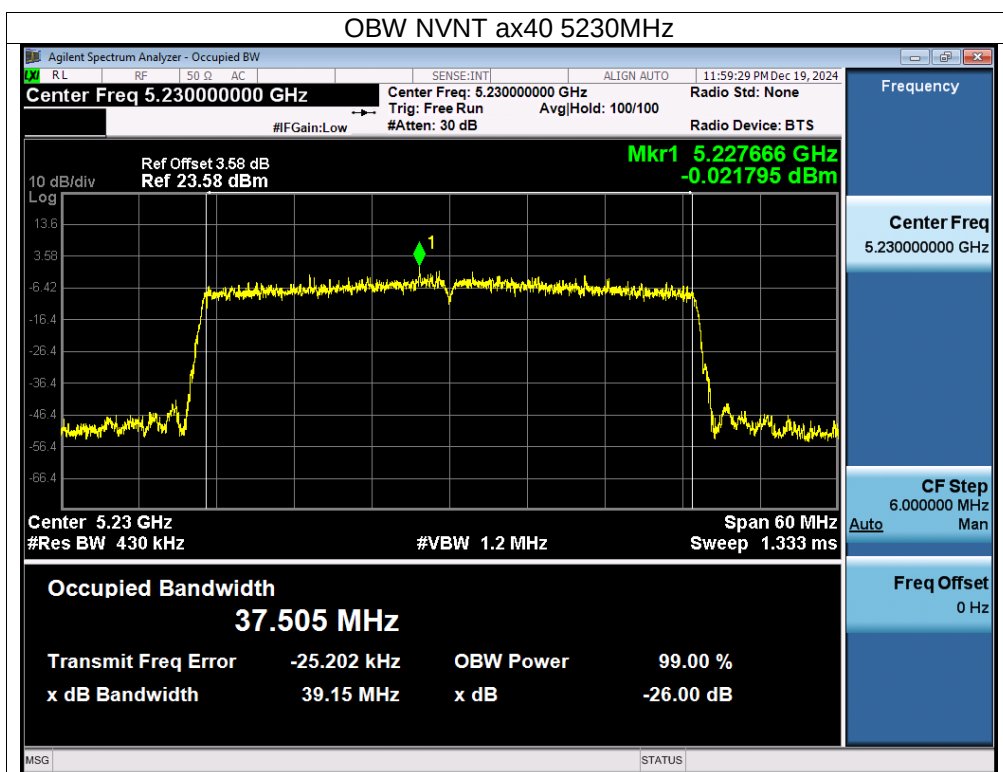








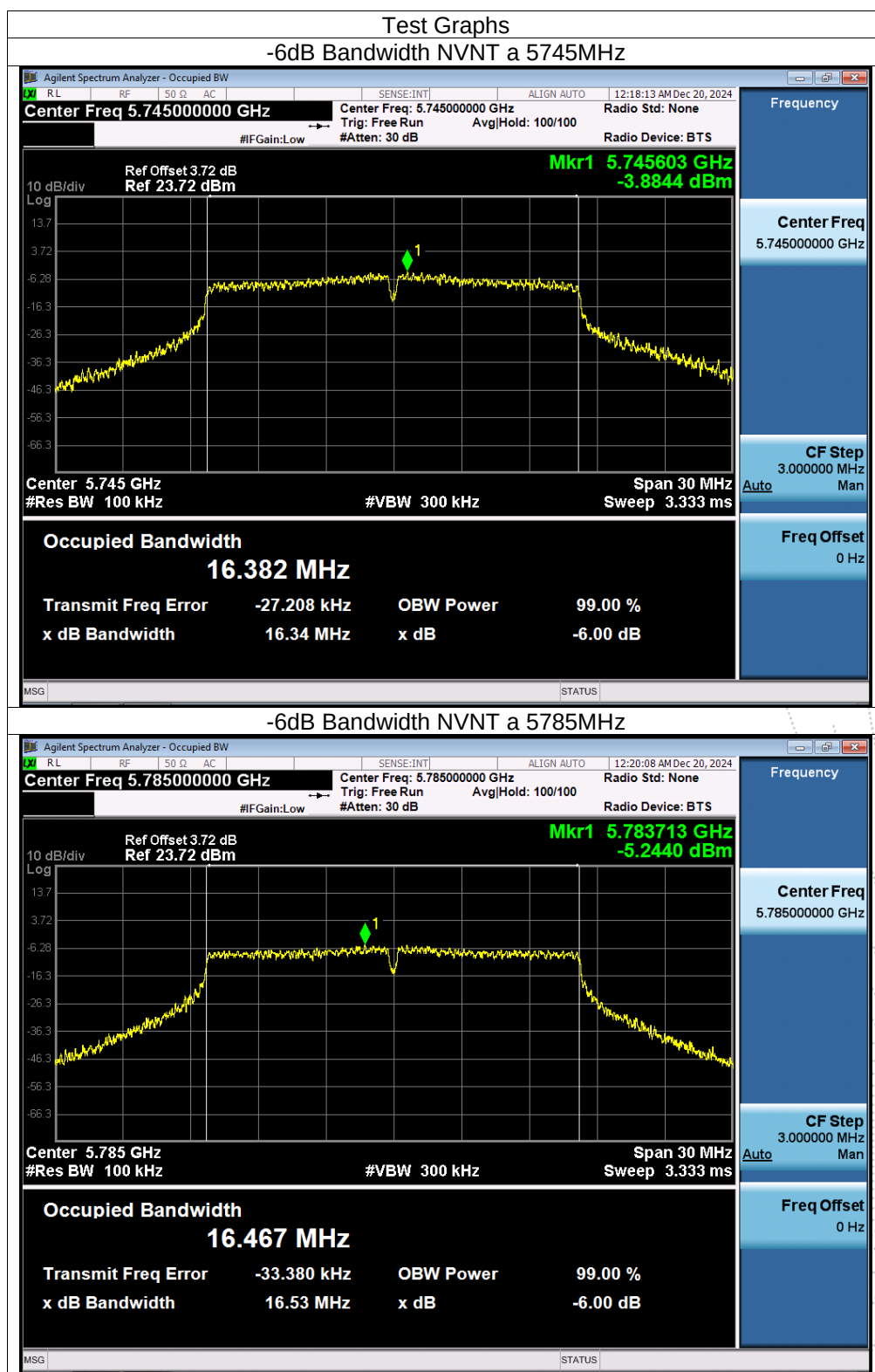


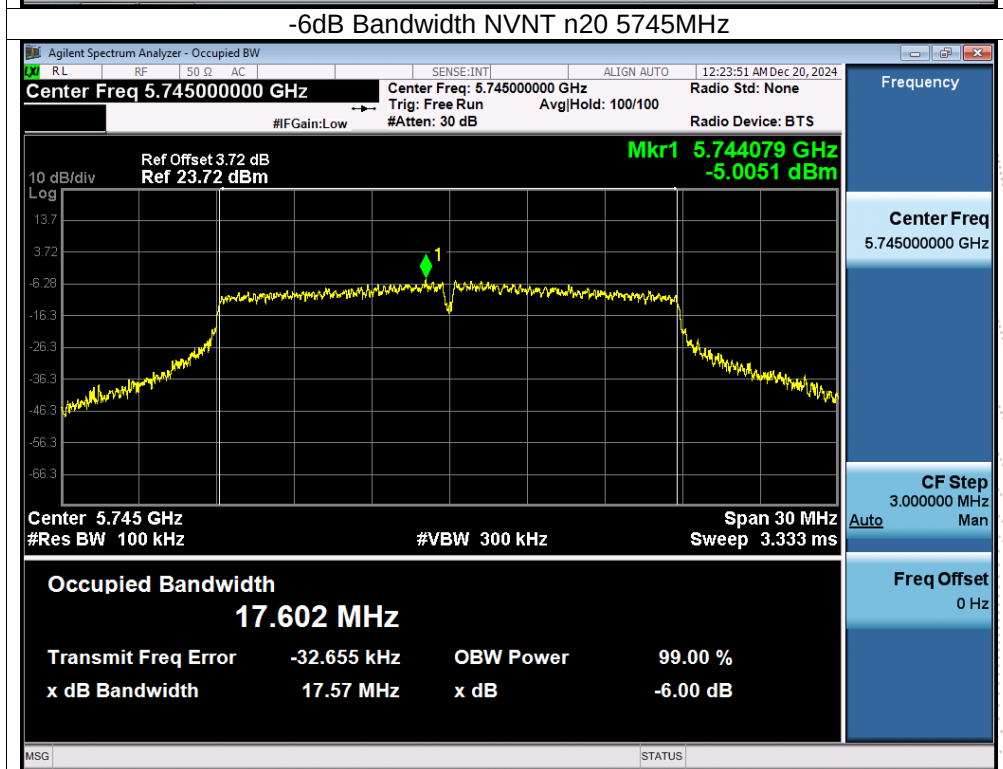
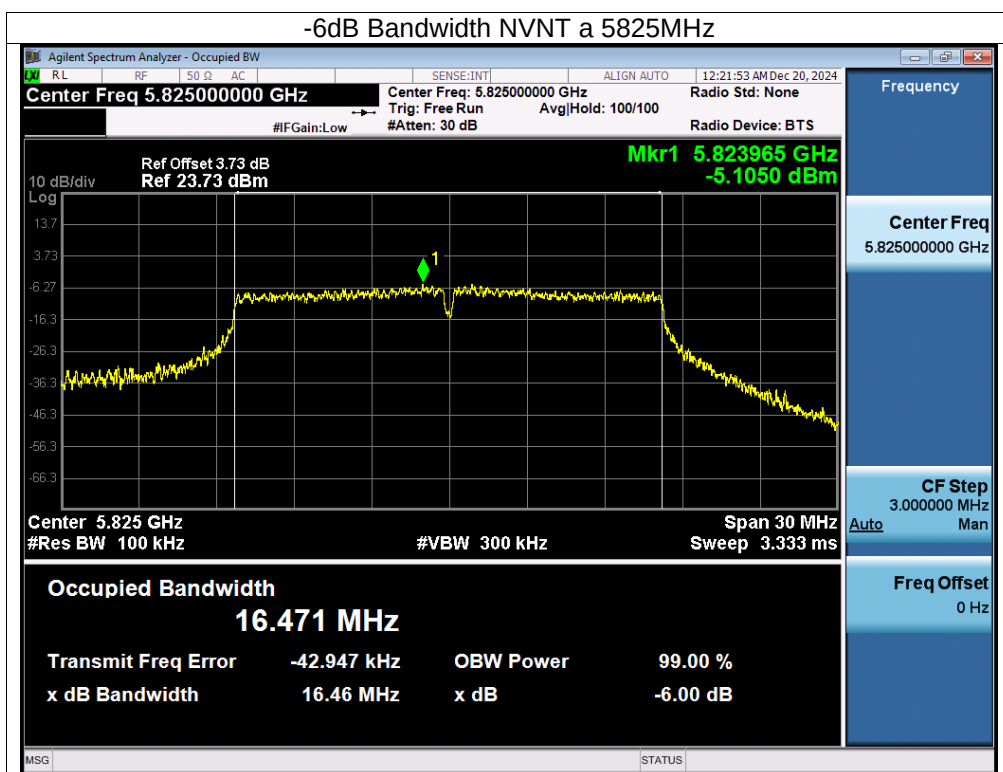


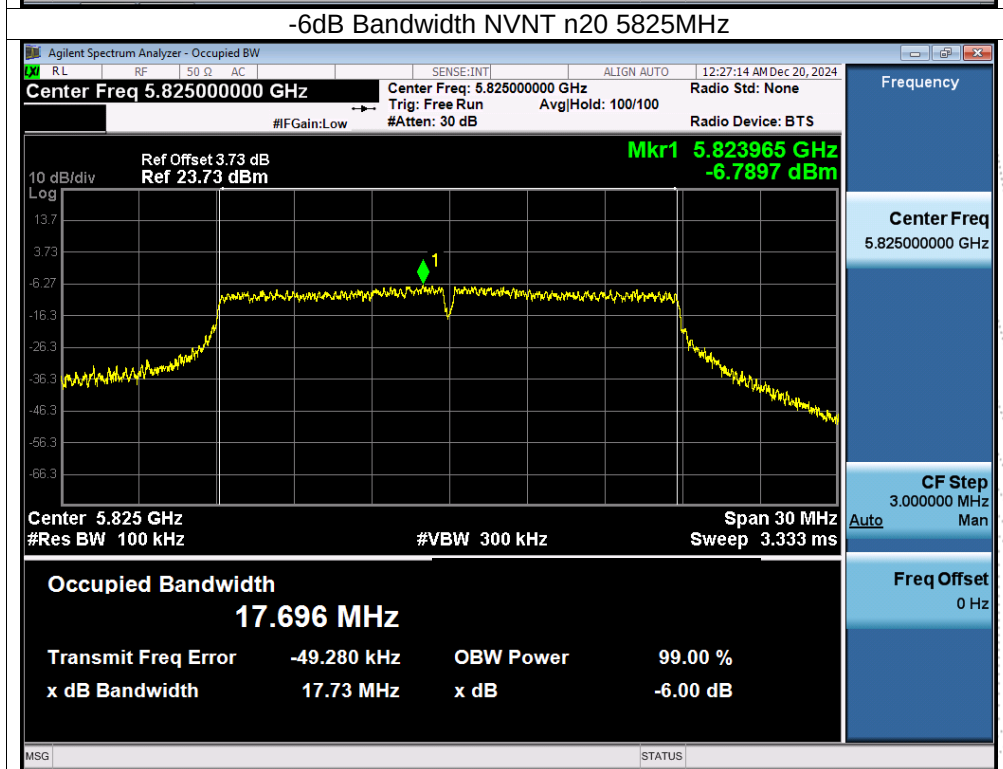
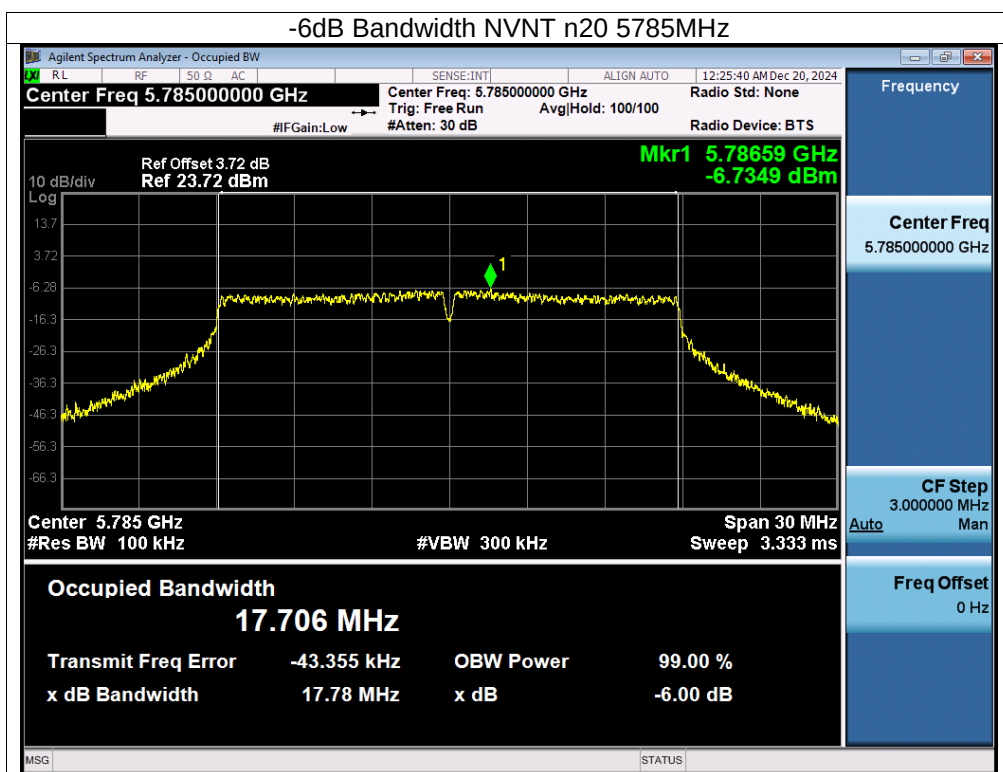
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.87V
Test Mode:	(5745-5825MHz)		

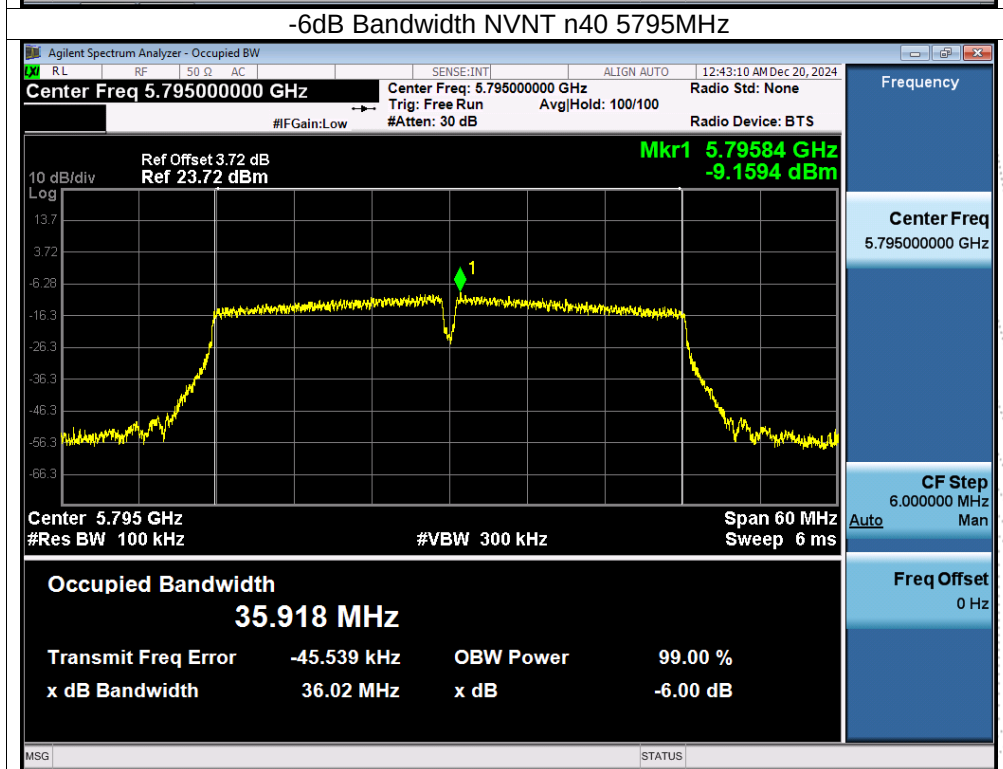
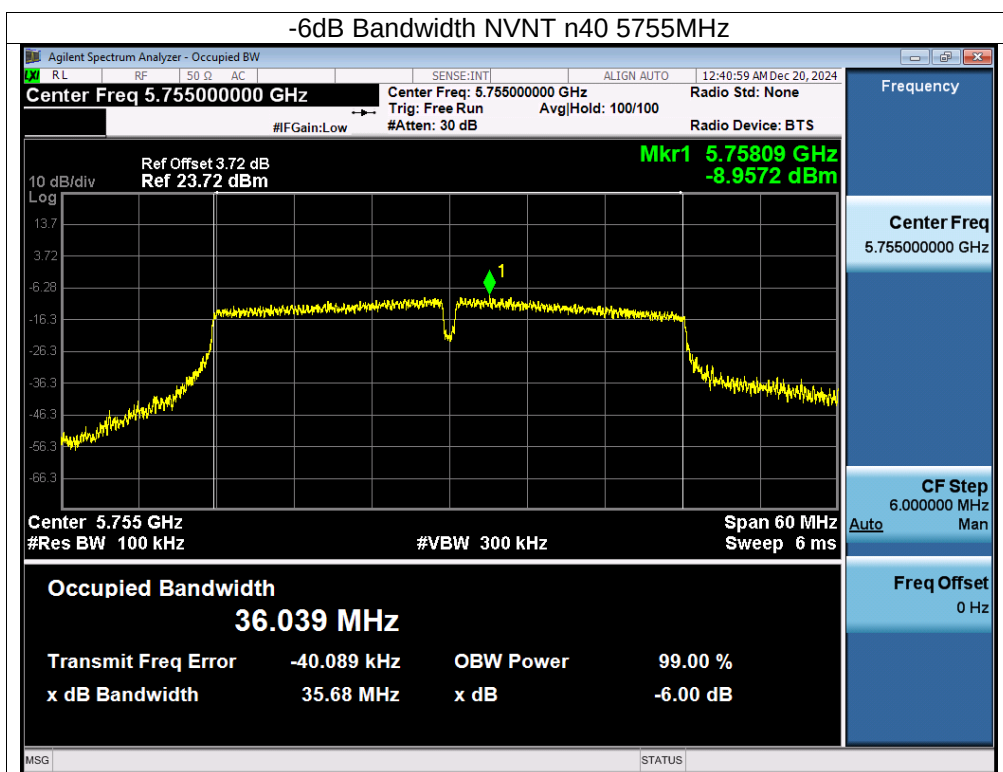
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)		-6dB bandwidth (MHz)			Result
			ANT A	ANT B	ANT A	ANT B	Limit	
NVNT	a	5745	16.823	16.462	16.508	16.336	0.5	Pass
NVNT	a	5785	16.6	16.612	16.436	16.526	0.5	Pass
NVNT	a	5825	16.589	16.584	16.443	16.457	0.5	Pass
NVNT	n20	5745	17.957	17.638	17.71	17.566	0.5	Pass
NVNT	n20	5785	17.821	17.791	17.769	17.777	0.5	Pass
NVNT	n20	5825	17.822	17.803	17.683	17.731	0.5	Pass
NVNT	n40	5755	36.195	36.073	36.322	35.683	0.5	Pass
NVNT	n40	5795	36.057	35.974	36.299	36.025	0.5	Pass
NVNT	ac20	5745	17.999	17.662	17.795	17.589	0.5	Pass
NVNT	ac20	5785	17.794	17.792	17.731	17.772	0.5	Pass
NVNT	ac20	5825	17.8	17.786	17.774	17.674	0.5	Pass
NVNT	ac40	5755	36.178	36.085	36.313	36.314	0.5	Pass
NVNT	ac40	5795	36.025	35.964	36.277	35.692	0.5	Pass
NVNT	ac80	5775	75.635	75.472	76.507	76.434	0.5	Pass
NVNT	ax20	5745	19.084	19.088	19.071	18.983	0.5	Pass
NVNT	ax20	5785	19	19.029	19.086	19.1	0.5	Pass
NVNT	ax20	5825	18.99	19.023	19.002	19.021	0.5	Pass
NVNT	ax40	5755	37.613	37.607	37.467	36.271	0.5	Pass
NVNT	ax40	5795	37.484	37.543	37.783	35.931	0.5	Pass
NVNT	ax80	5775	77.393	77.13	78.01	78.052	0.5	Pass

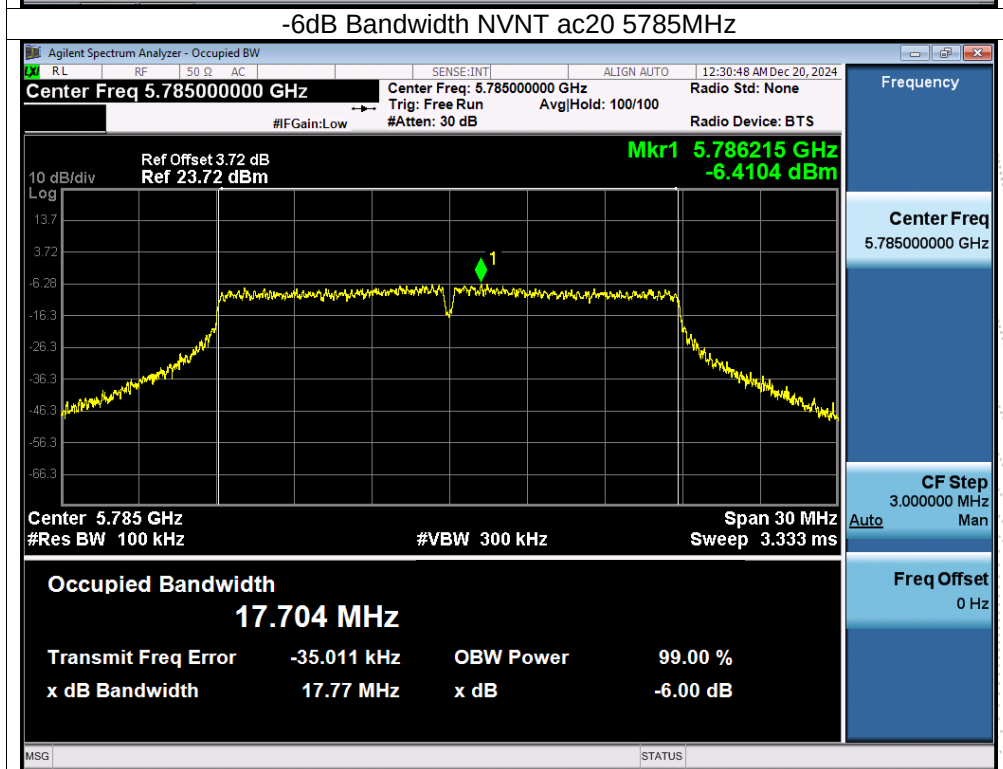
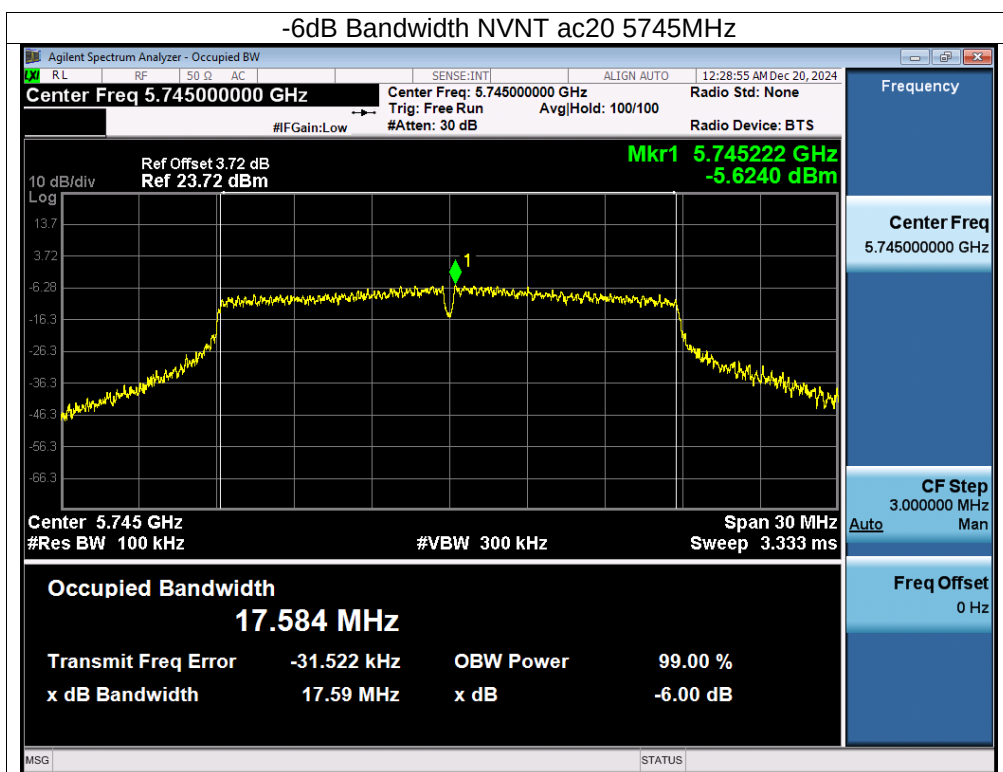
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

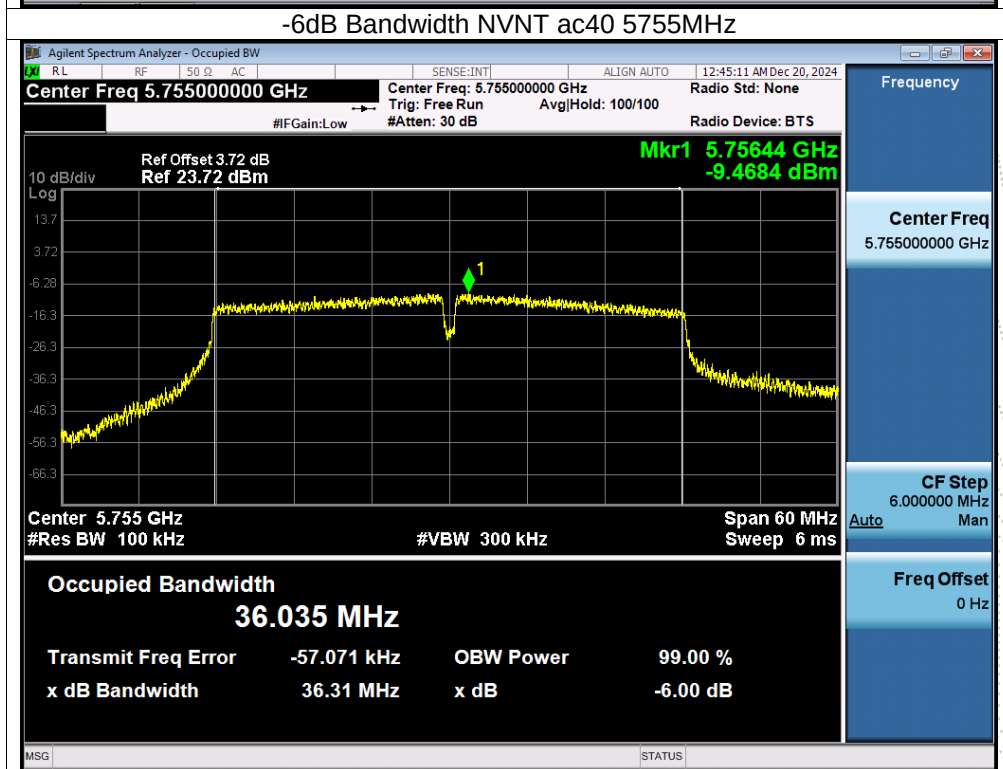
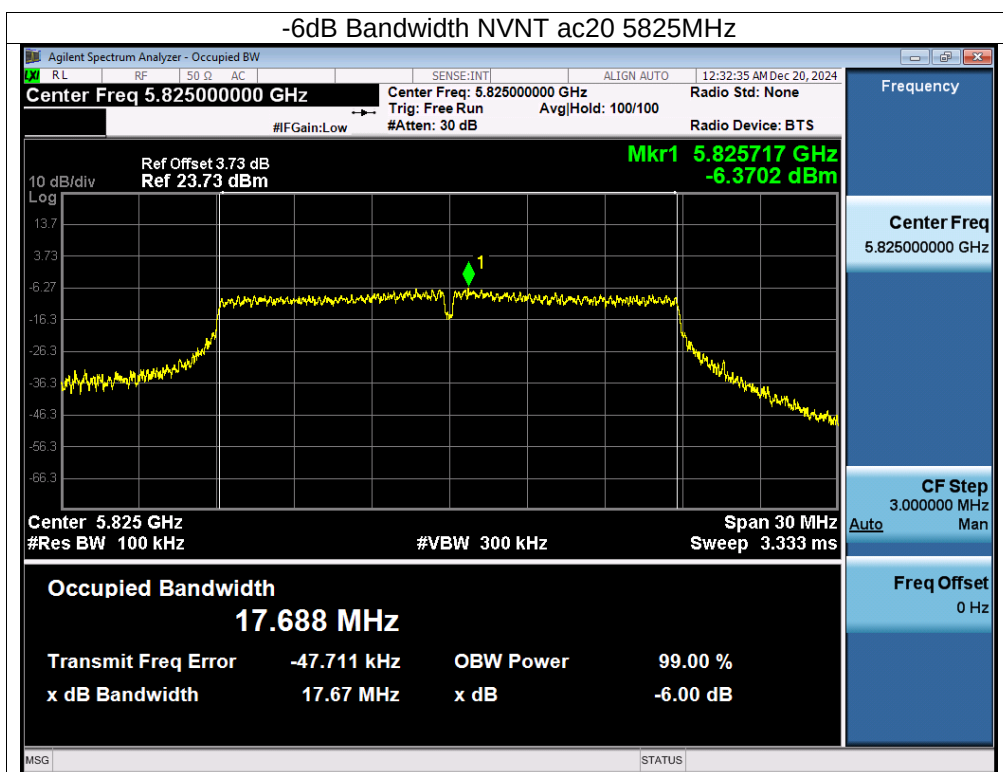


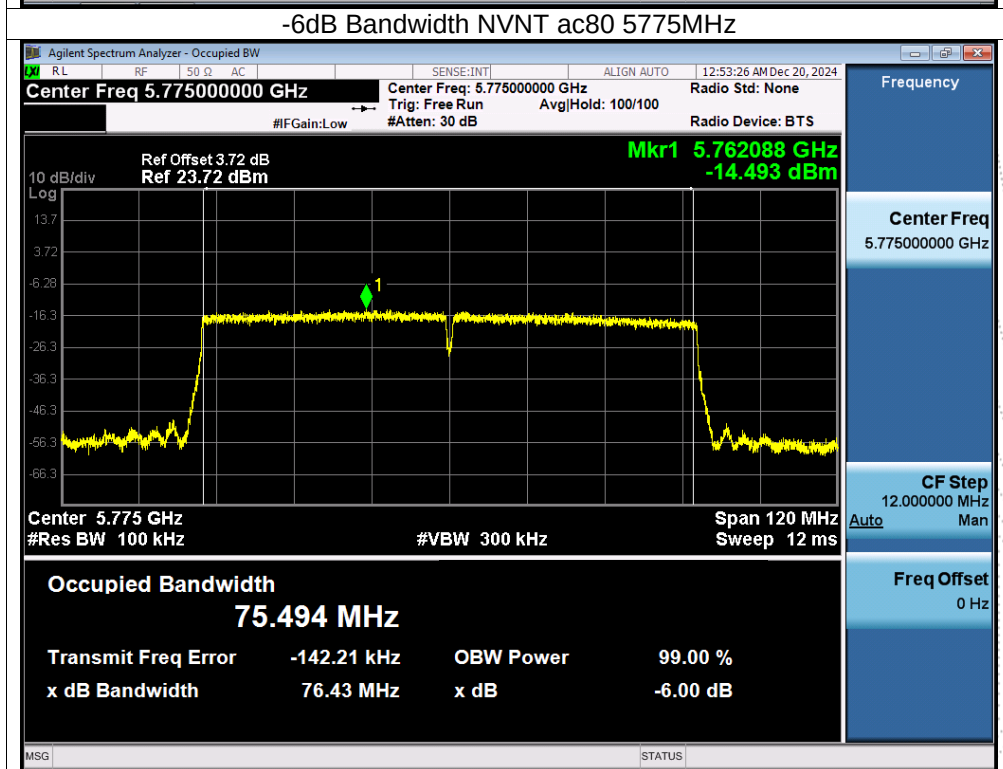
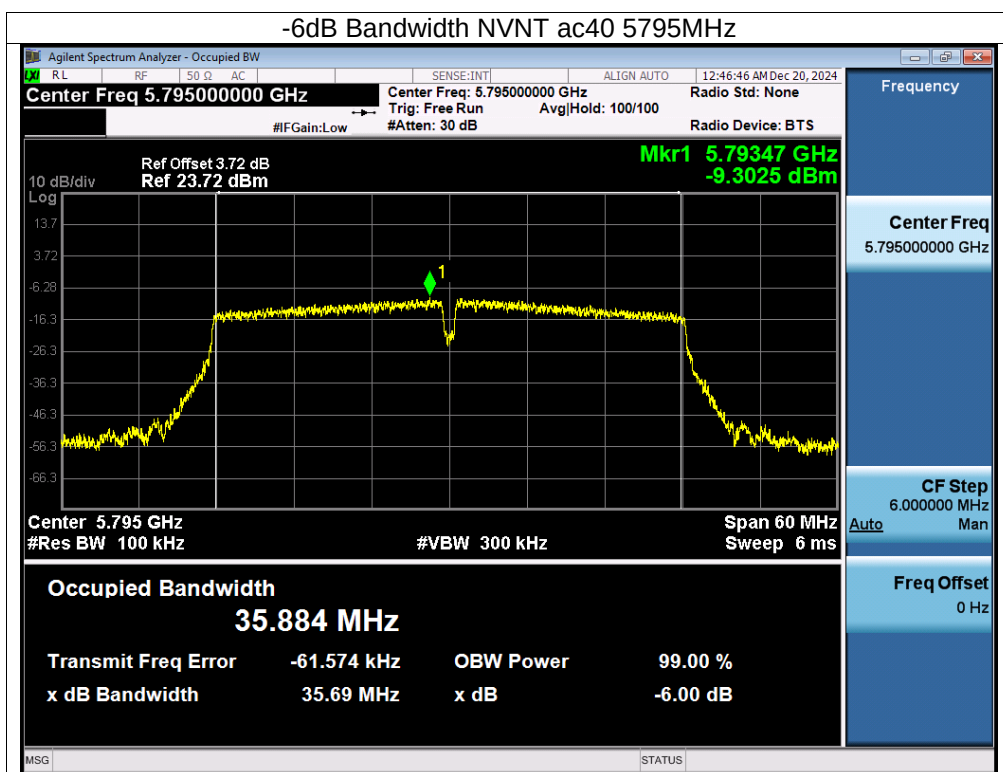


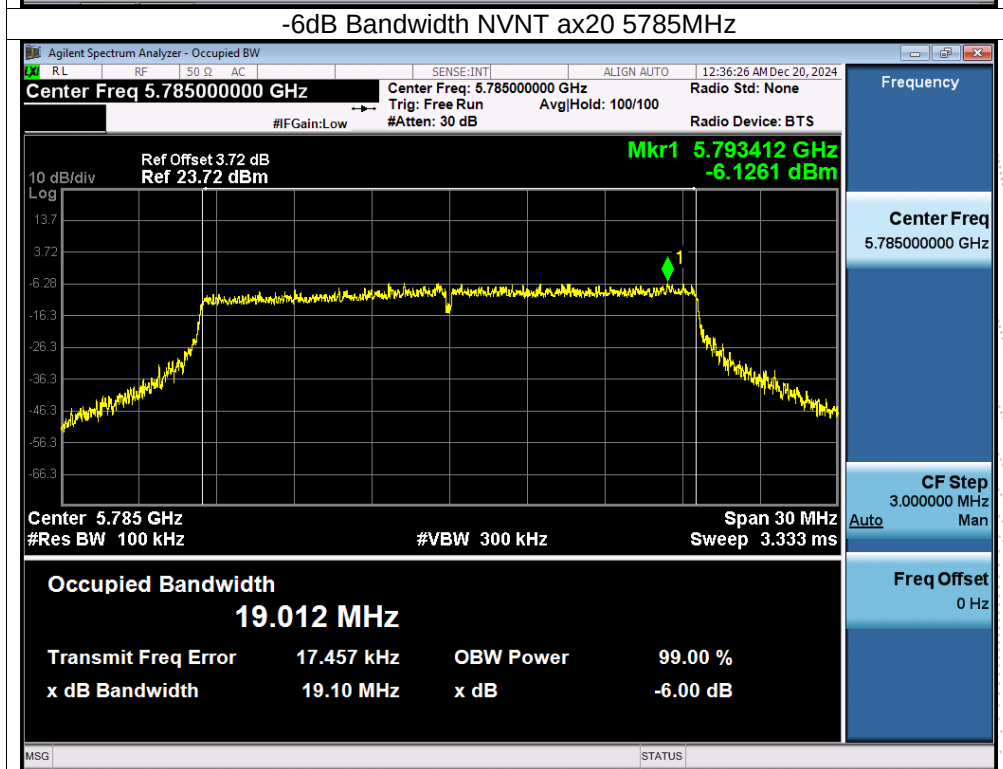
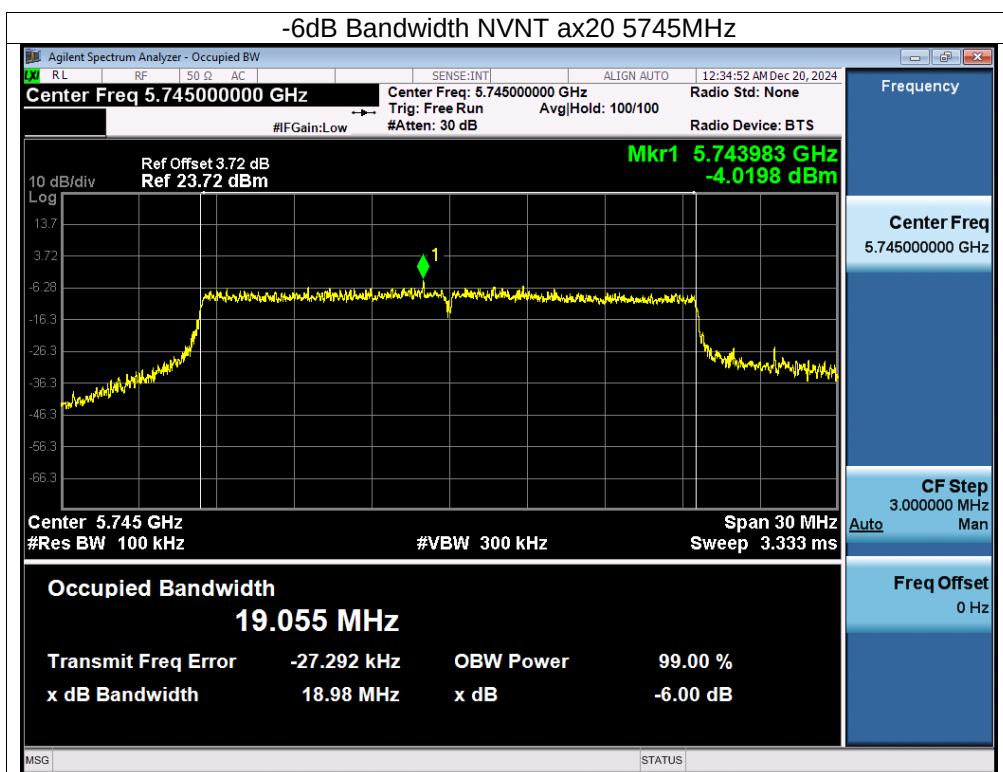


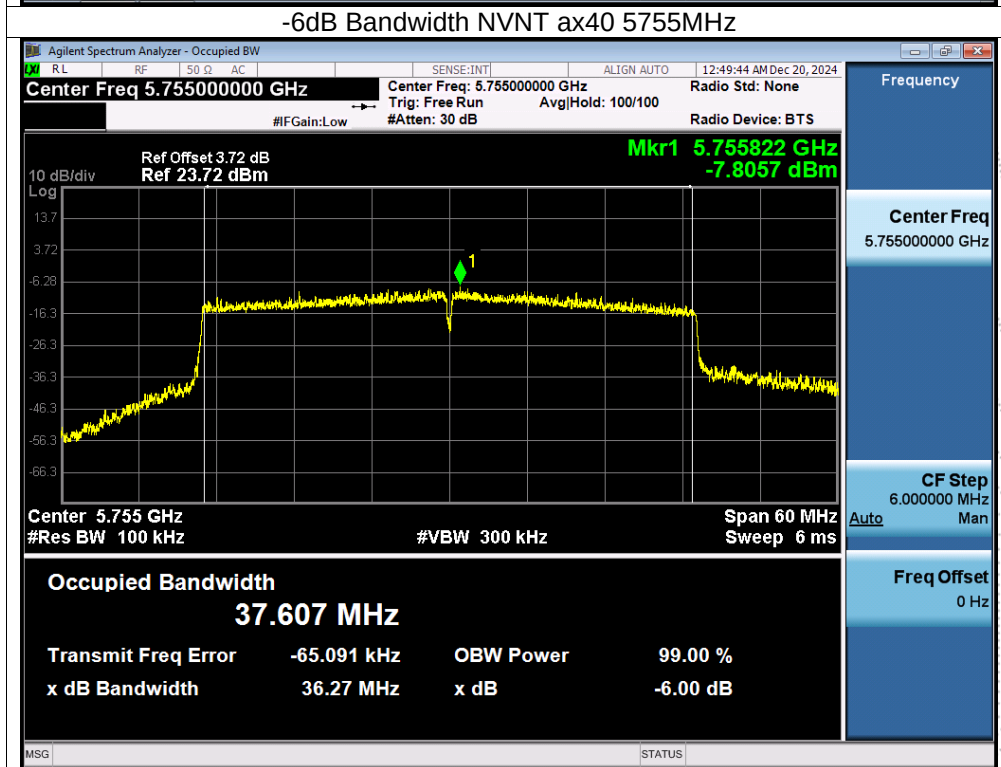
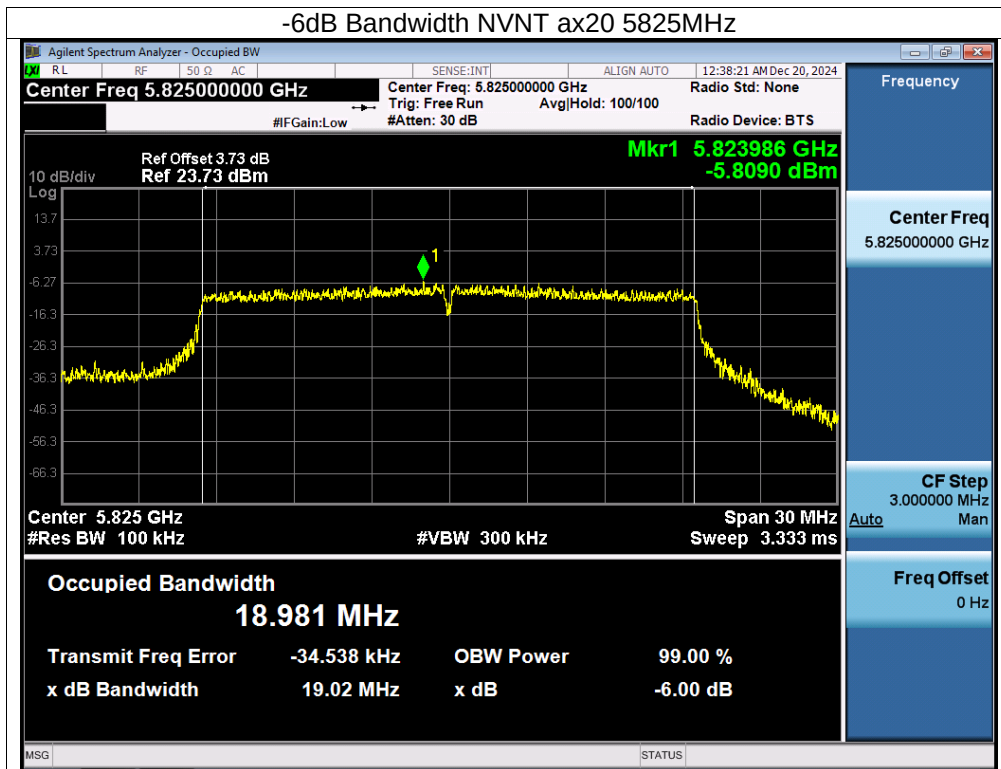


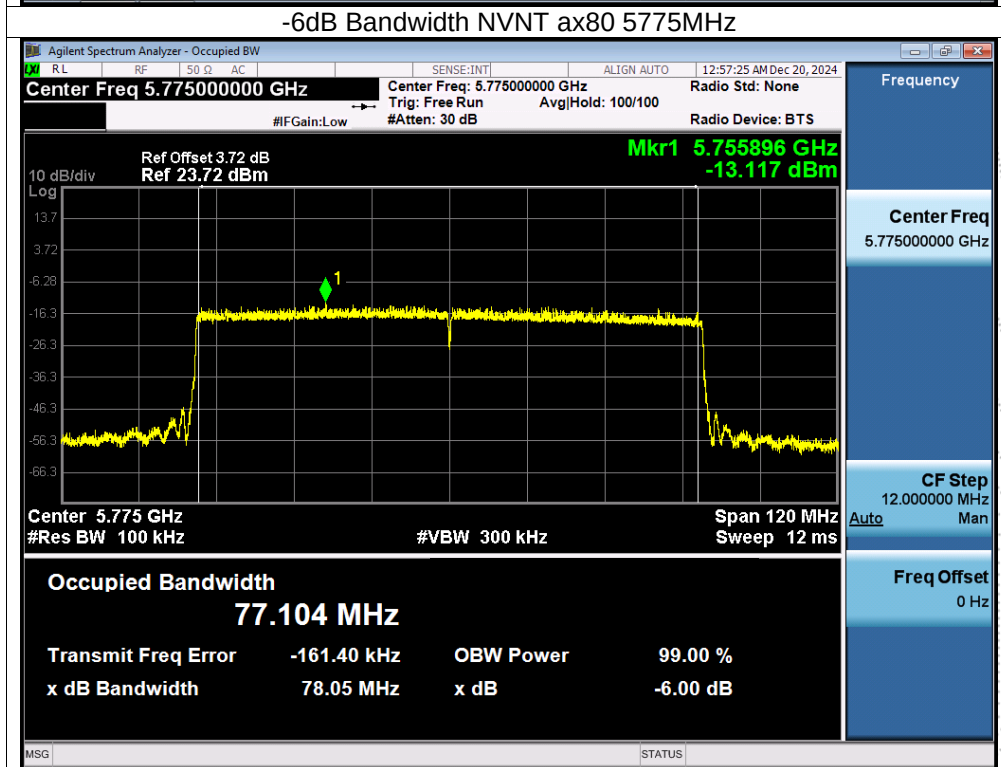
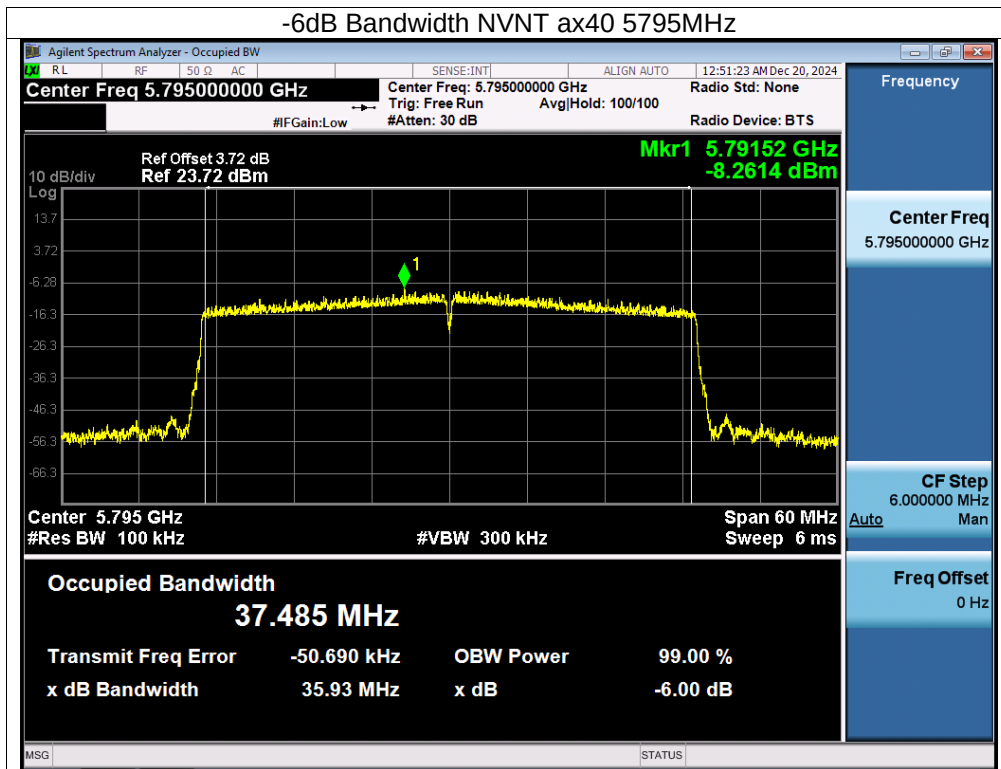












Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

