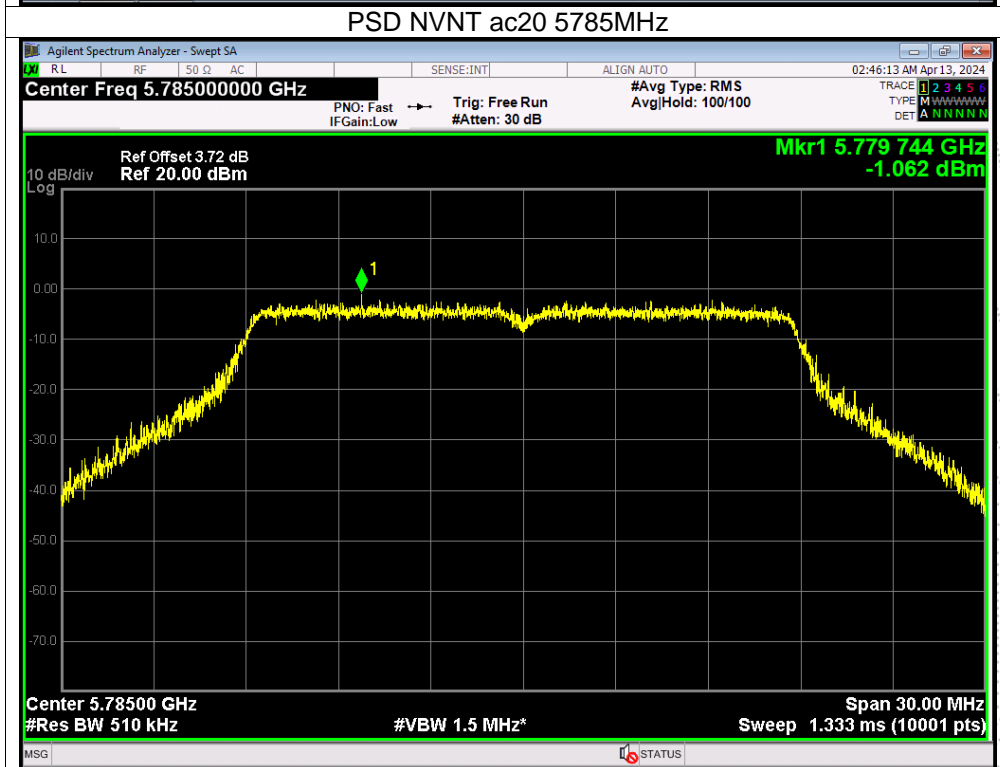
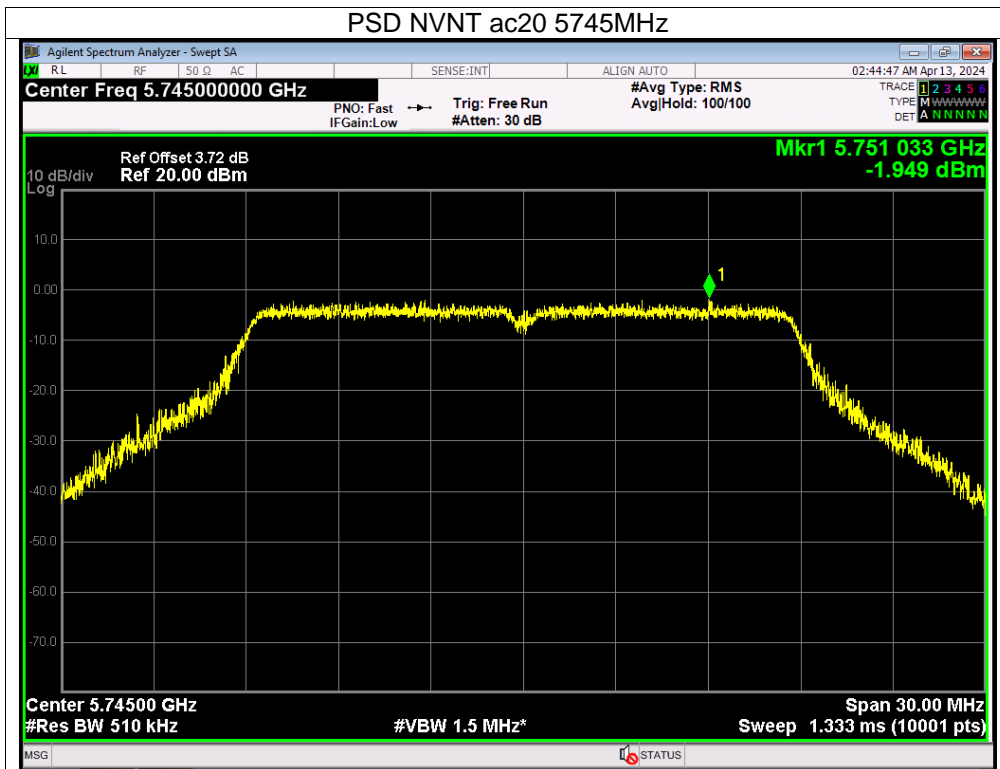
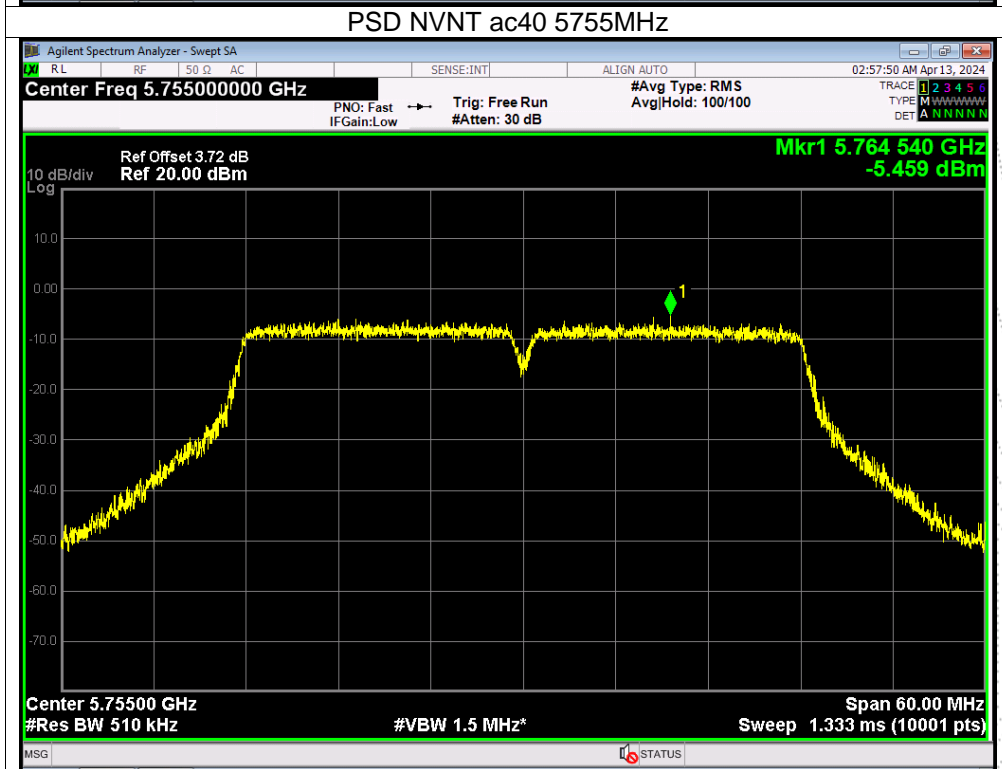
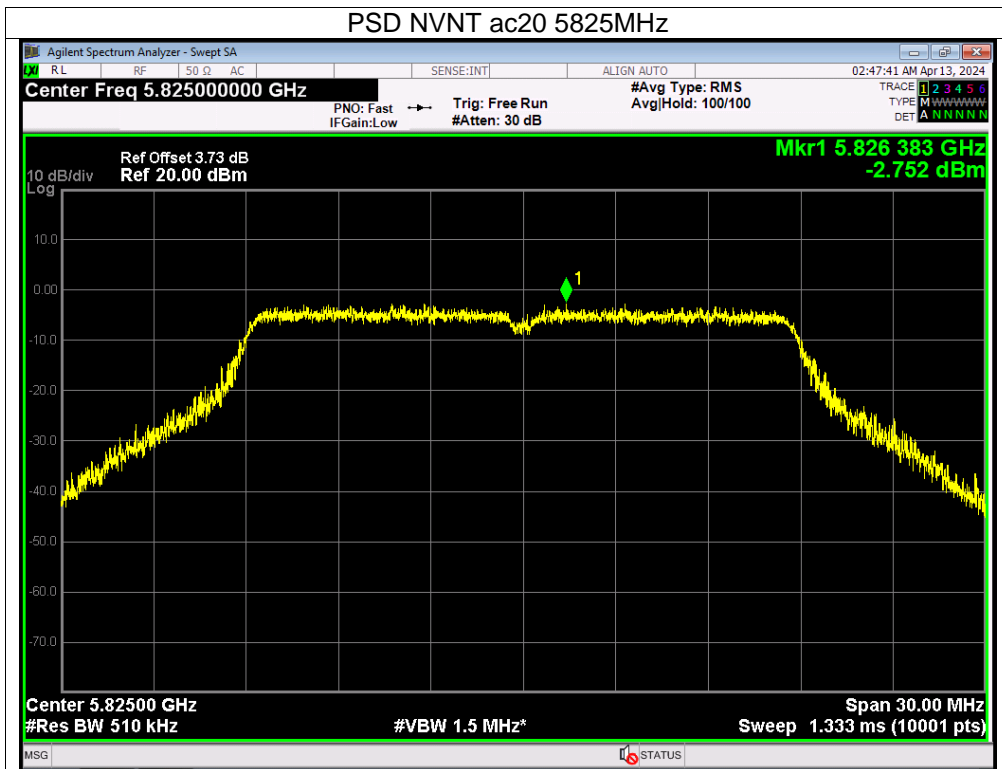
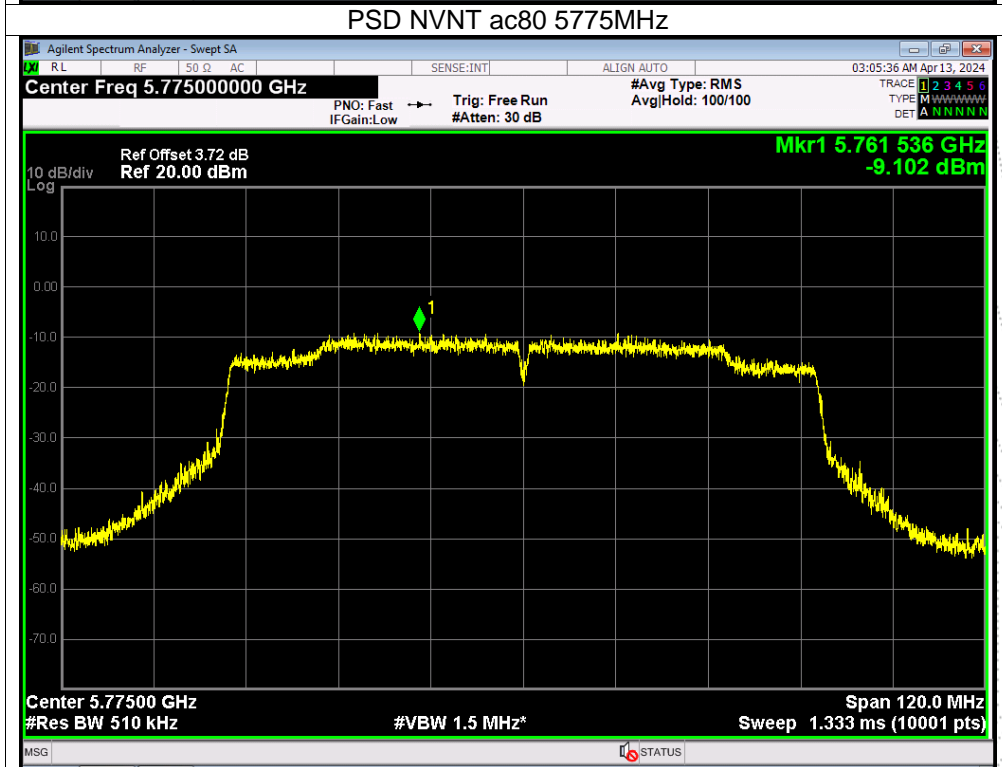
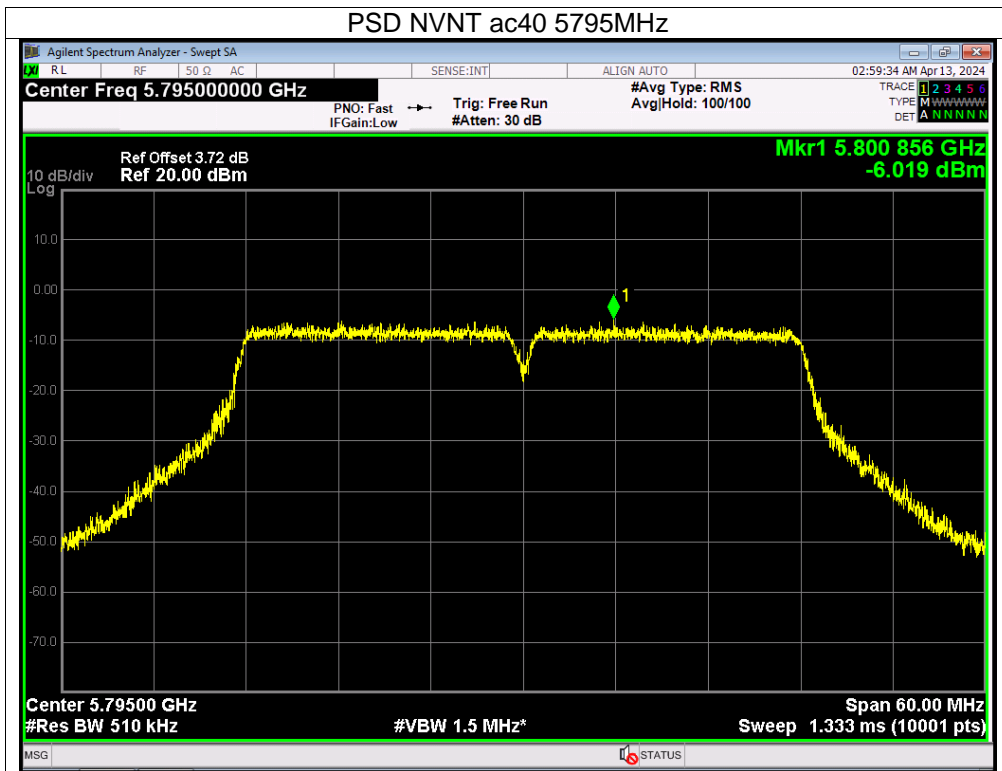
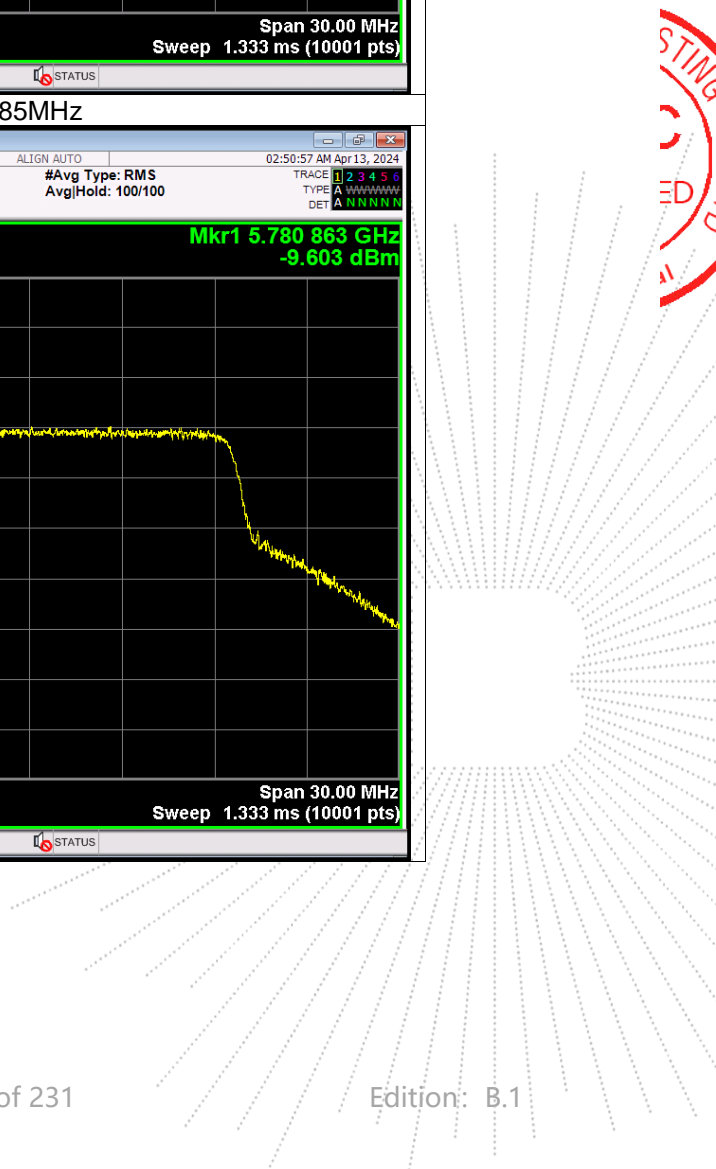
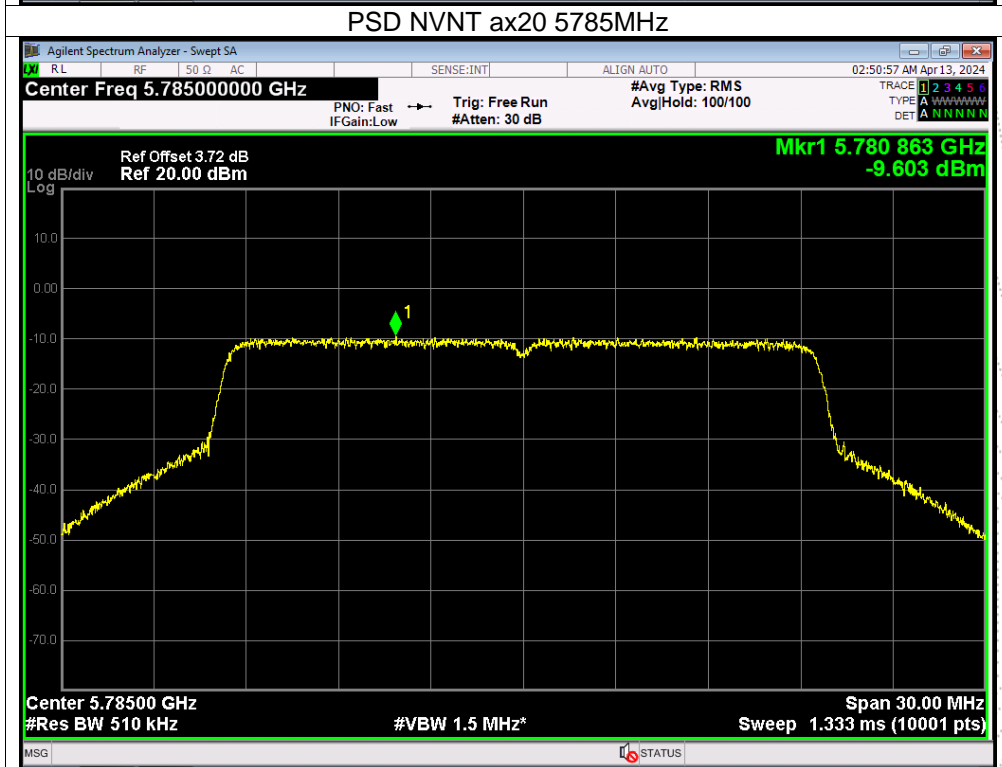
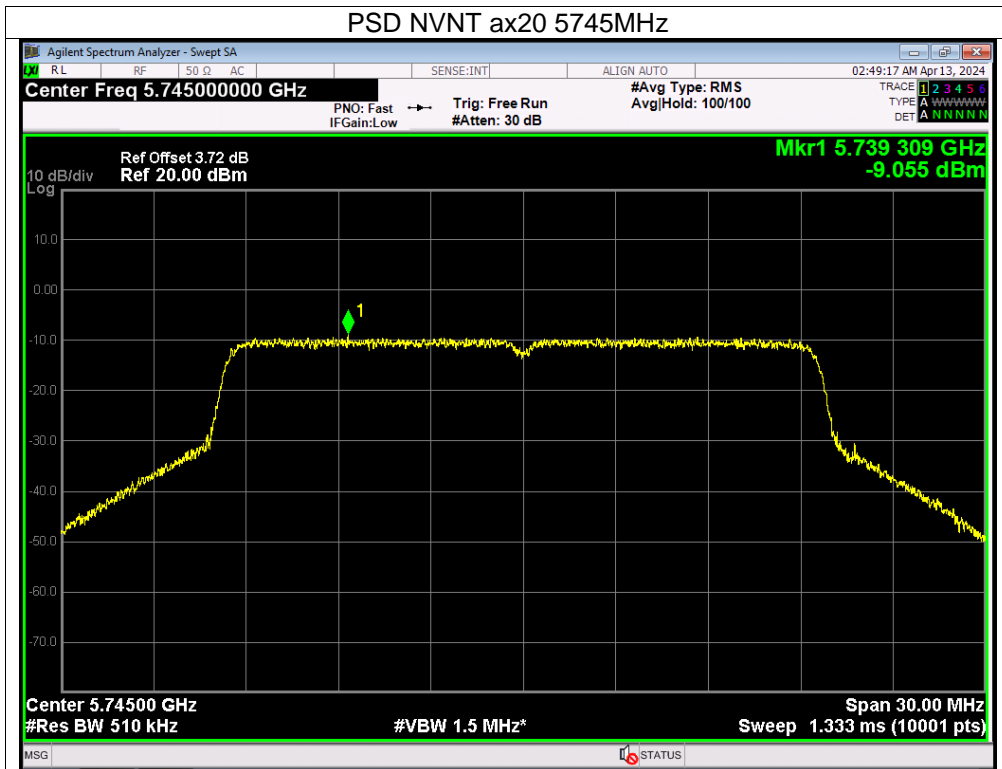


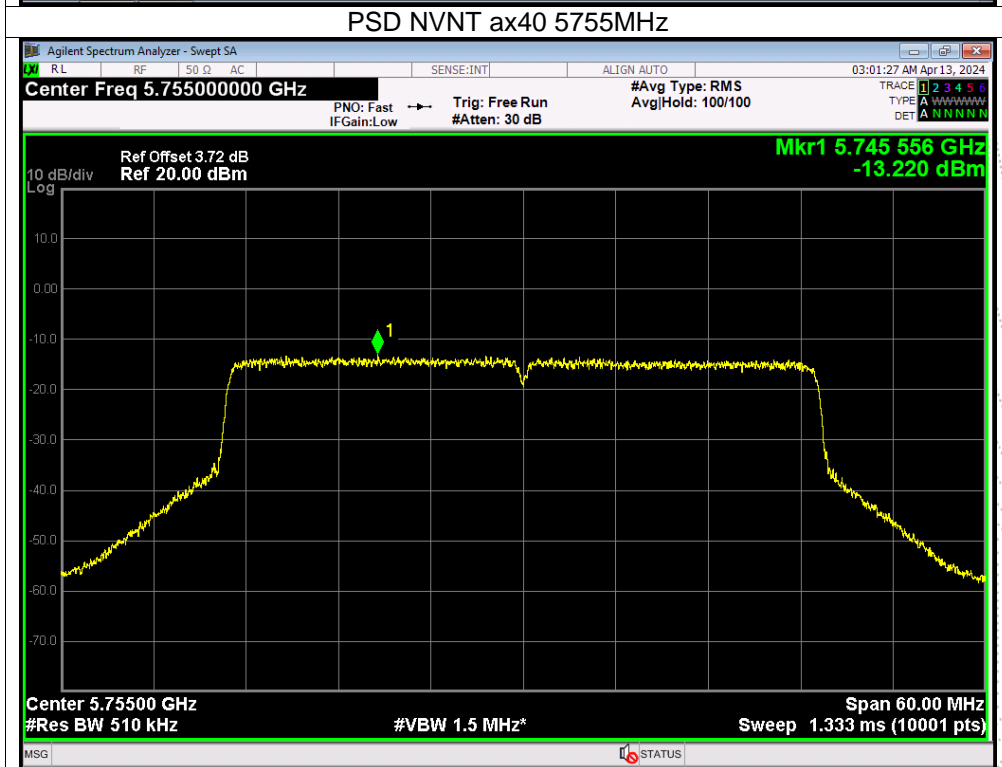
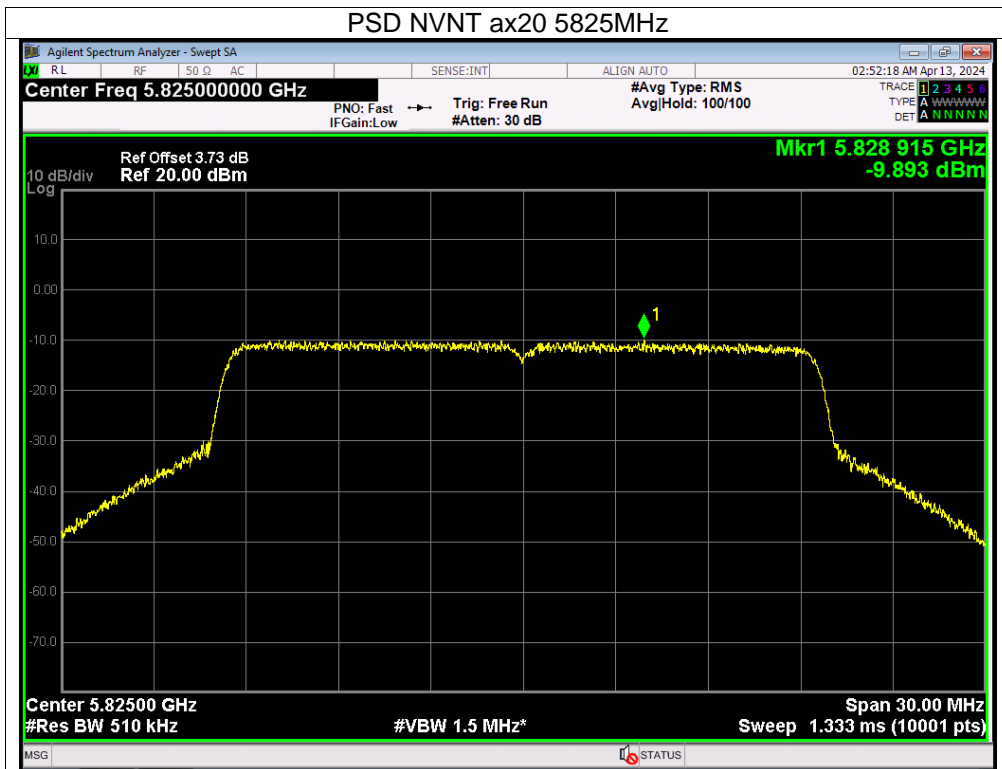
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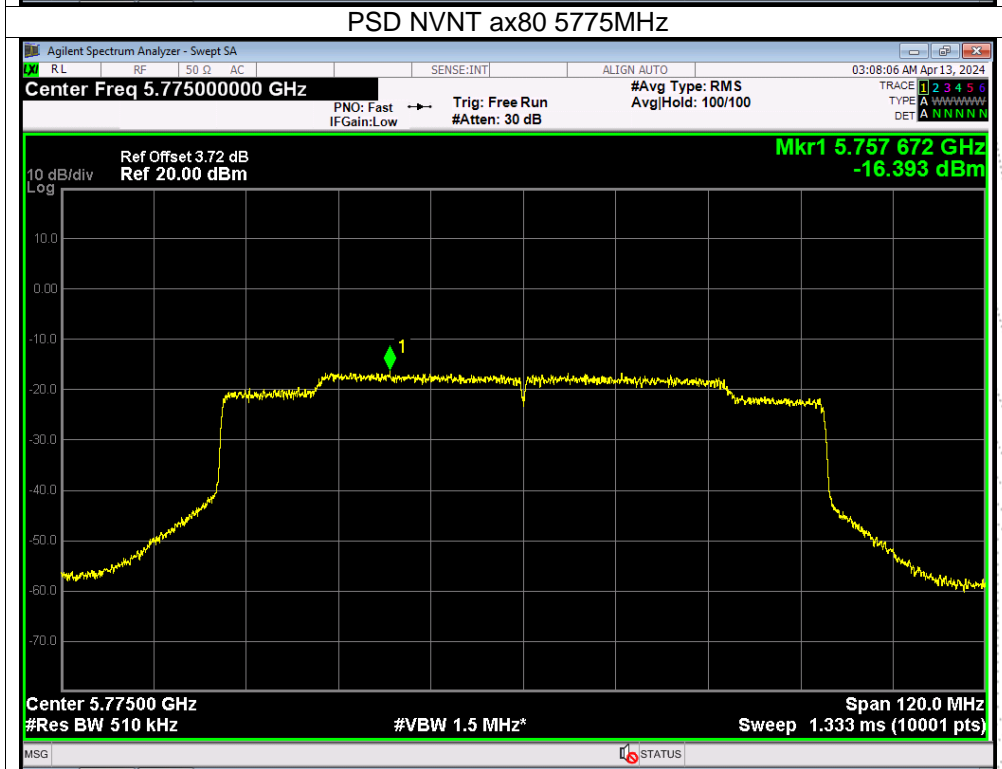
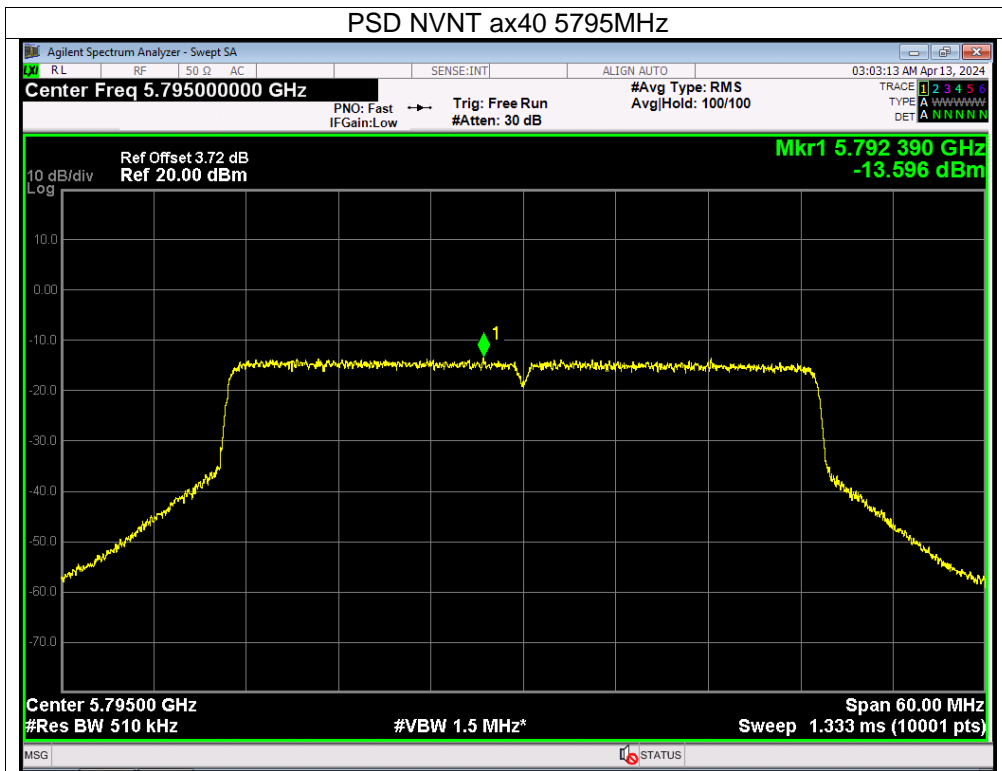








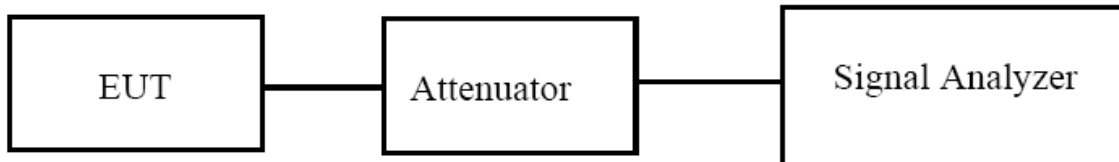
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9. 26dB & 6dB & 99% Emission Bandwidth

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.
(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.

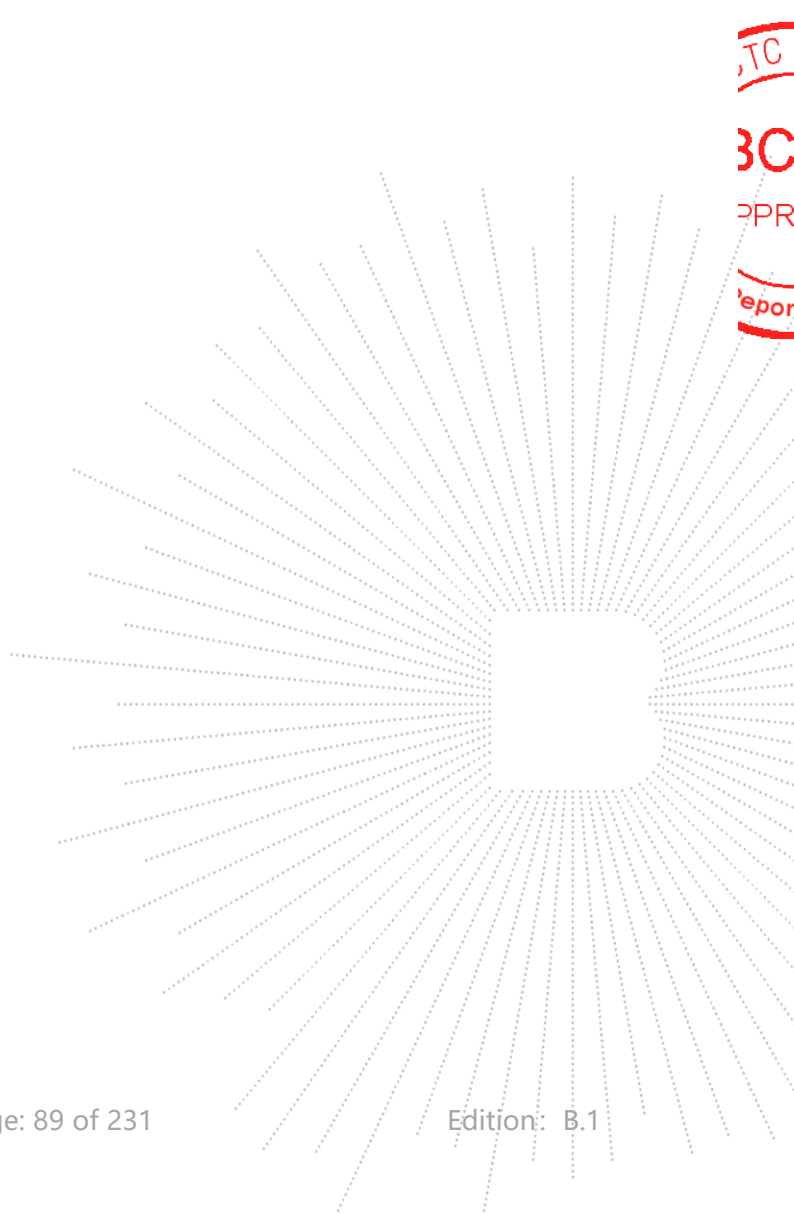
6dB

- 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

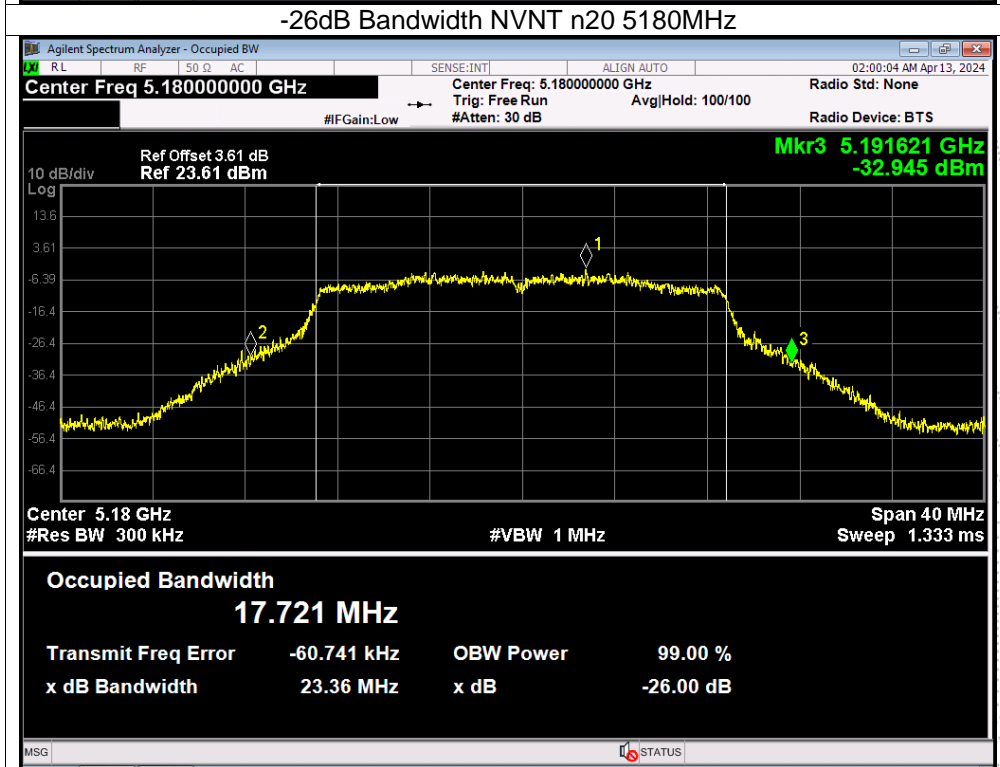
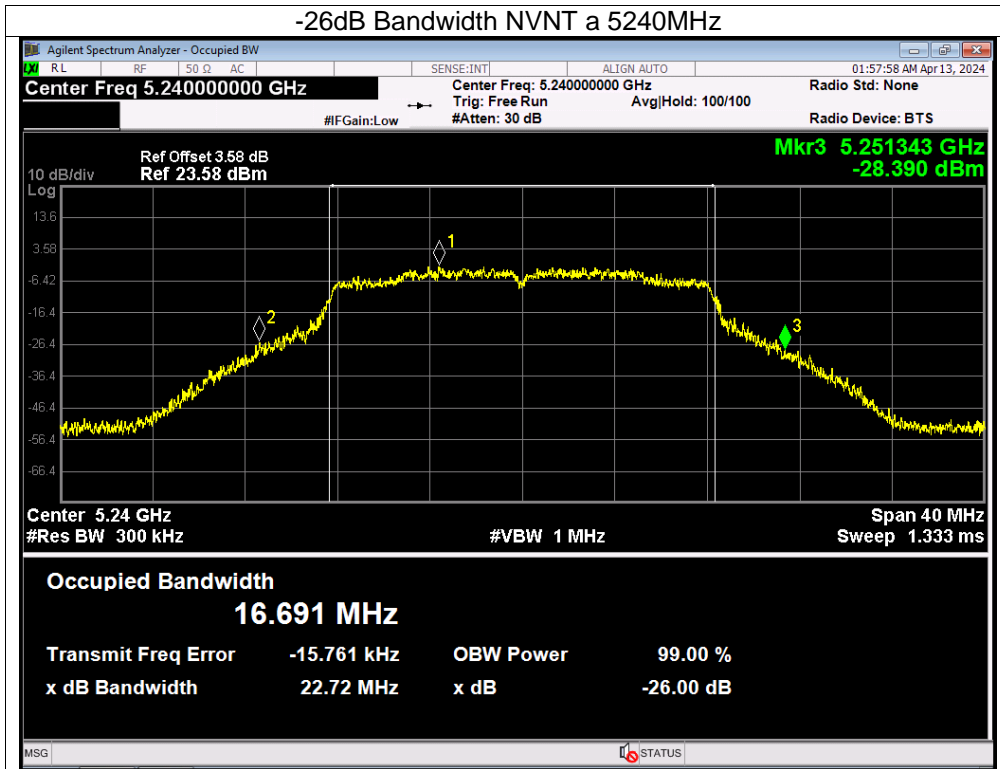
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 11.4V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

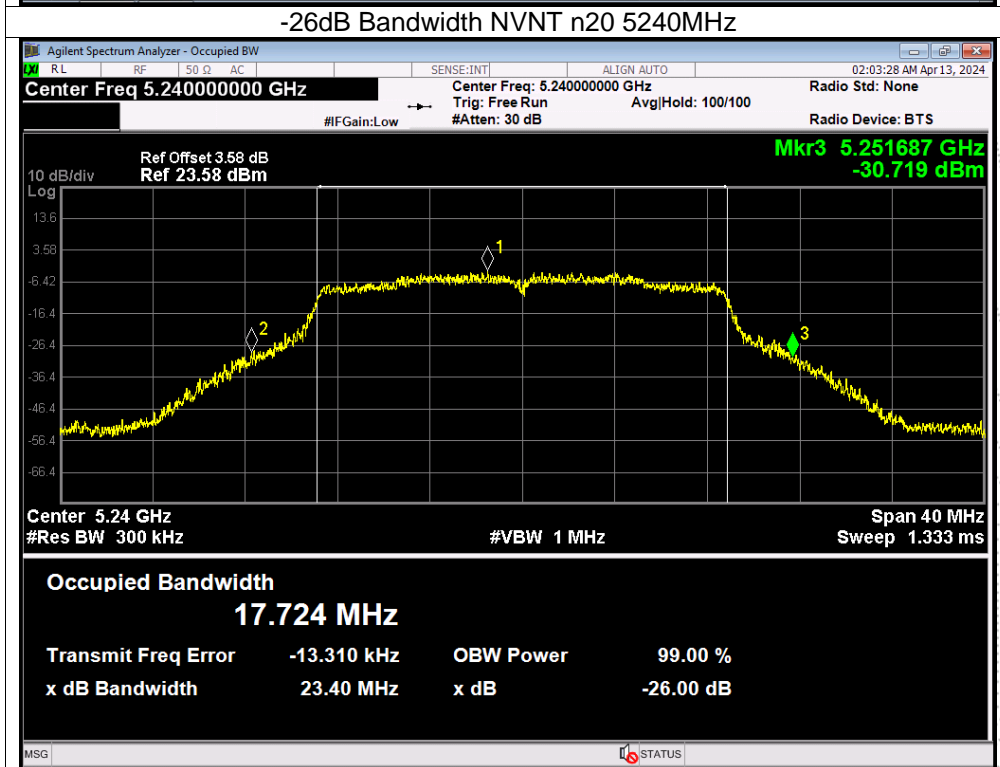
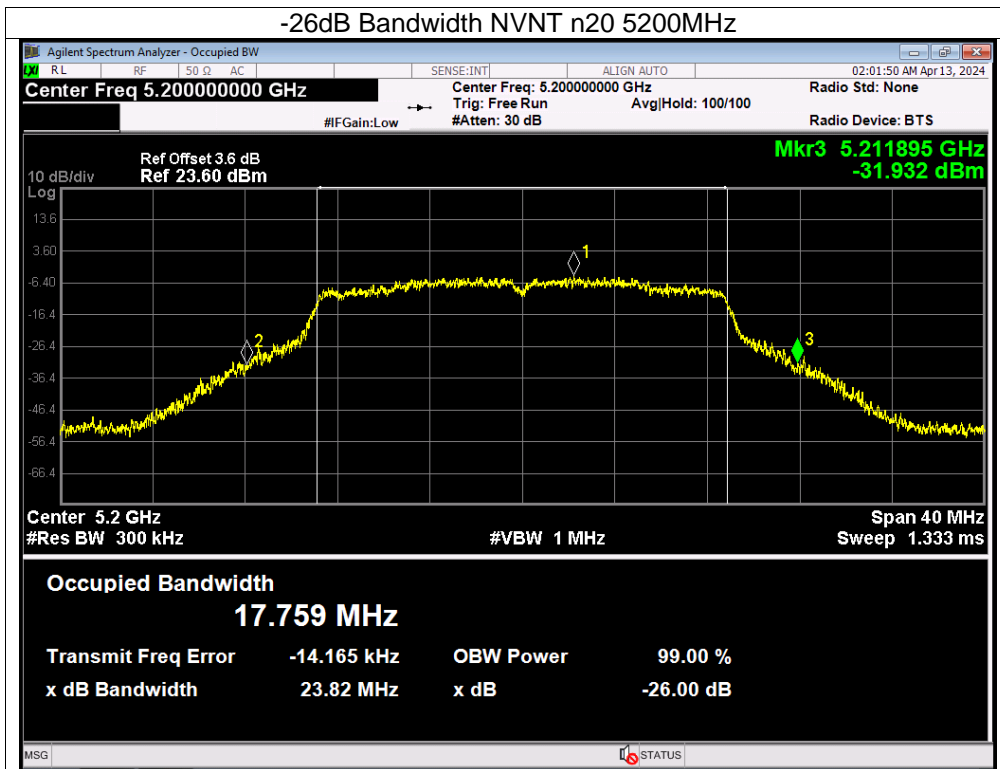
Mode	Channel	Frequency (MHz)	99% OBW (MHz)		26dB bandwidth (MHz)		Result
			ANT A	ANT B	ANT A	ANT B	
NVNT	a	5180	16.519	16.57	23.023	22.869	Pass
NVNT	a	5200	16.583	16.535	23.199	22.6	Pass
NVNT	a	5240	16.52	16.556	22.796	22.718	Pass
NVNT	n20	5180	17.696	17.693	23.405	23.364	Pass
NVNT	n20	5200	17.67	17.68	22.679	23.818	Pass
NVNT	n20	5240	17.687	17.681	24.177	23.4	Pass
NVNT	n40	5190	36.034	36.015	42.792	42.536	Pass
NVNT	n40	5230	36.017	35.988	43.707	43.83	Pass
NVNT	ac20	5180	17.666	17.649	23.731	23.262	Pass
NVNT	ac20	5200	17.689	17.672	23.176	22.956	Pass
NVNT	ac20	5240	17.664	17.686	23.938	23.252	Pass
NVNT	ac40	5190	36.006	36.036	44.605	43.756	Pass
NVNT	ac40	5230	36.021	35.988	42.712	43.64	Pass
NVNT	ac80	5210	75.076	75.095	84.147	85.689	Pass
NVNT	ax20	5180	18.846	18.867	23.622	22.276	Pass
NVNT	ax20	5200	18.872	18.865	23.281	23.037	Pass
NVNT	ax20	5240	18.885	18.835	22.752	22.144	Pass
NVNT	ax40	5190	37.481	37.532	41.25	42.241	Pass
NVNT	ax40	5230	37.521	37.531	42.126	41.811	Pass
NVNT	ax80	5210	76.656	76.572	84.859	83.595	Pass

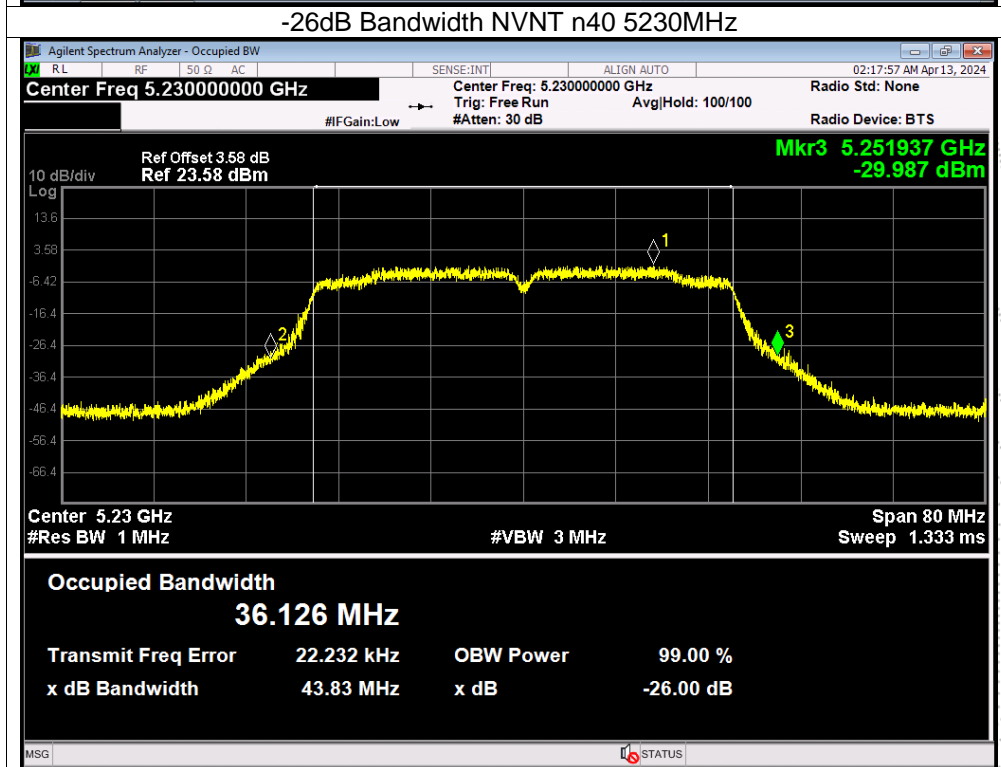
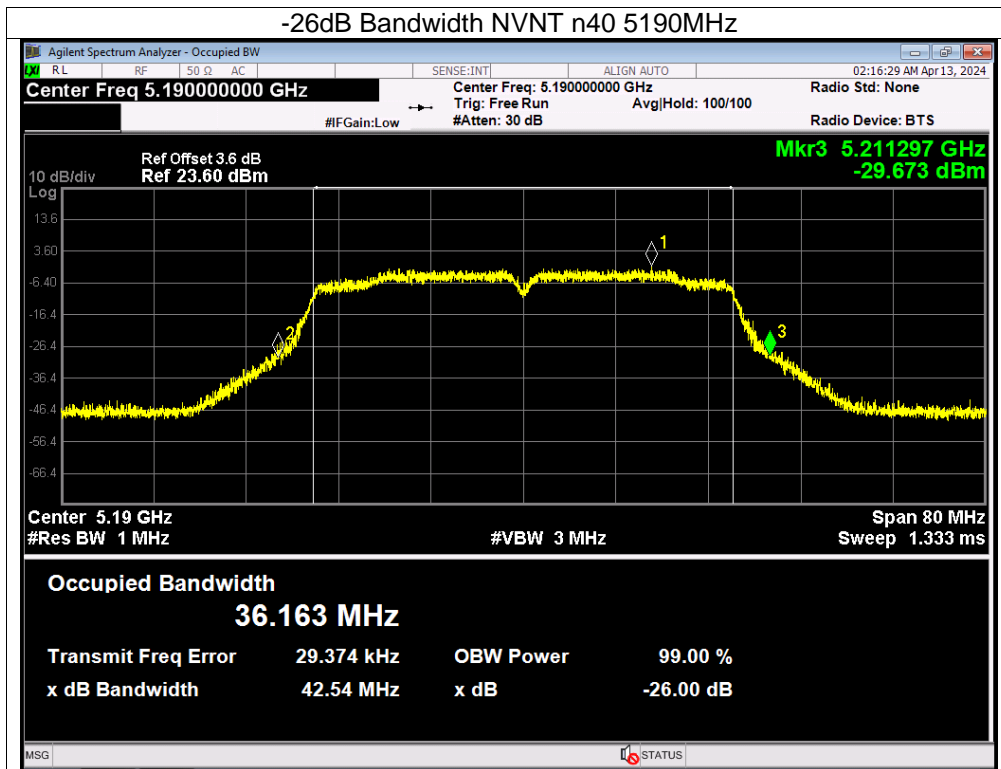
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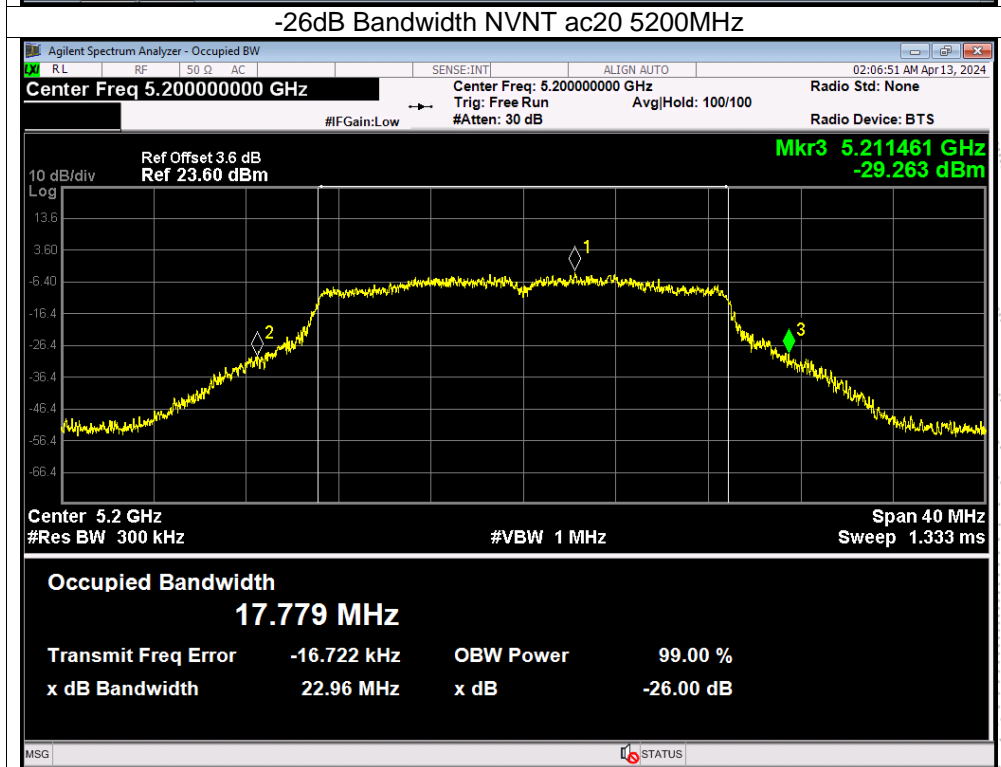
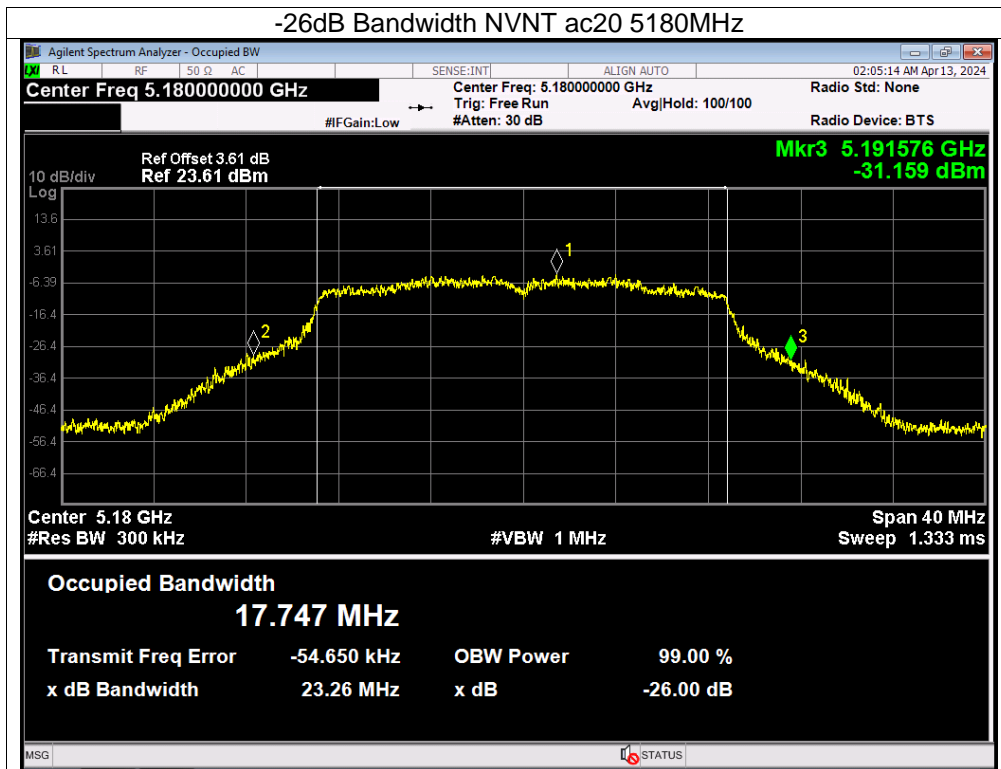
Note: A(B) Represent the value of antenna A and B. The worst data is Antenna B, only shown Antenna B Plot.

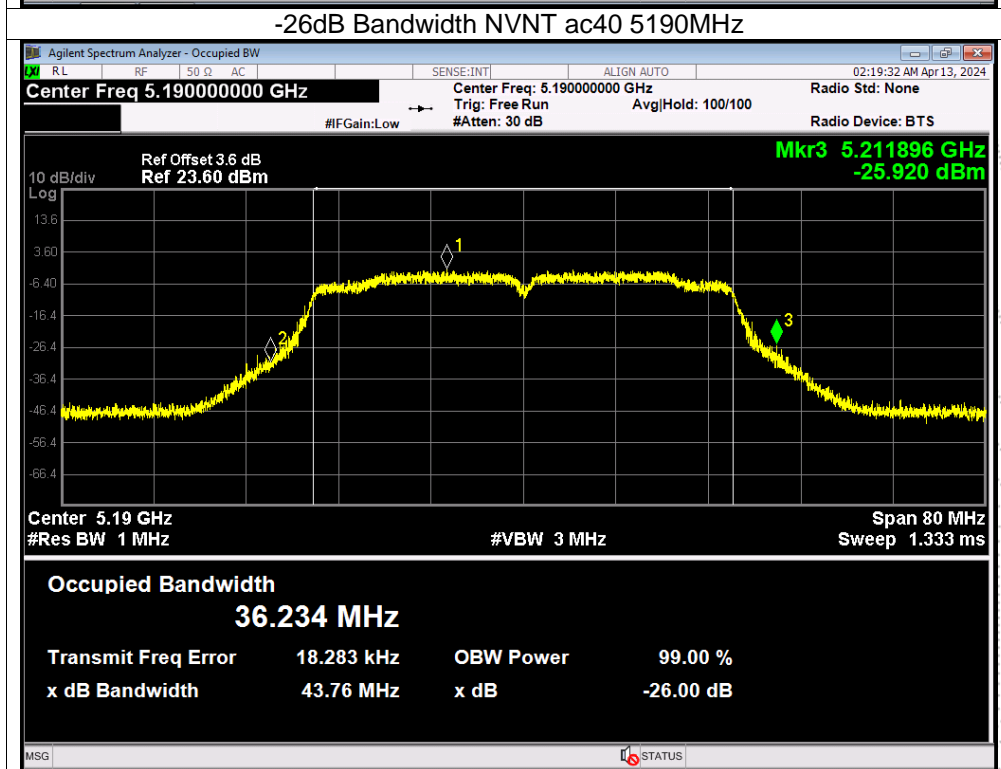
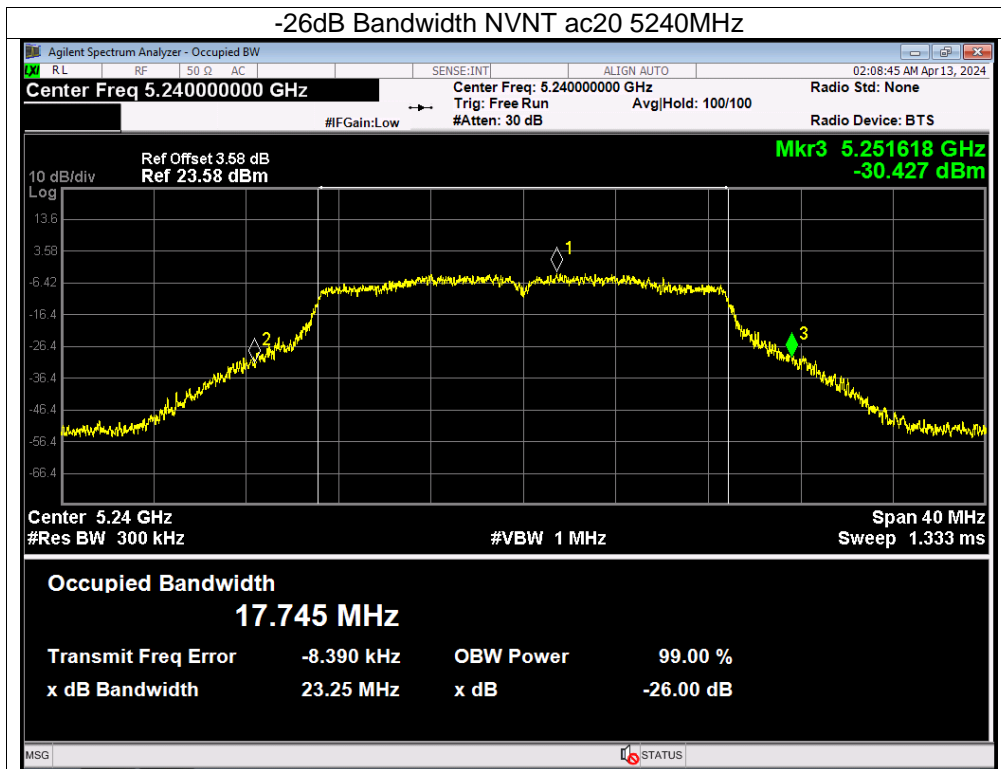


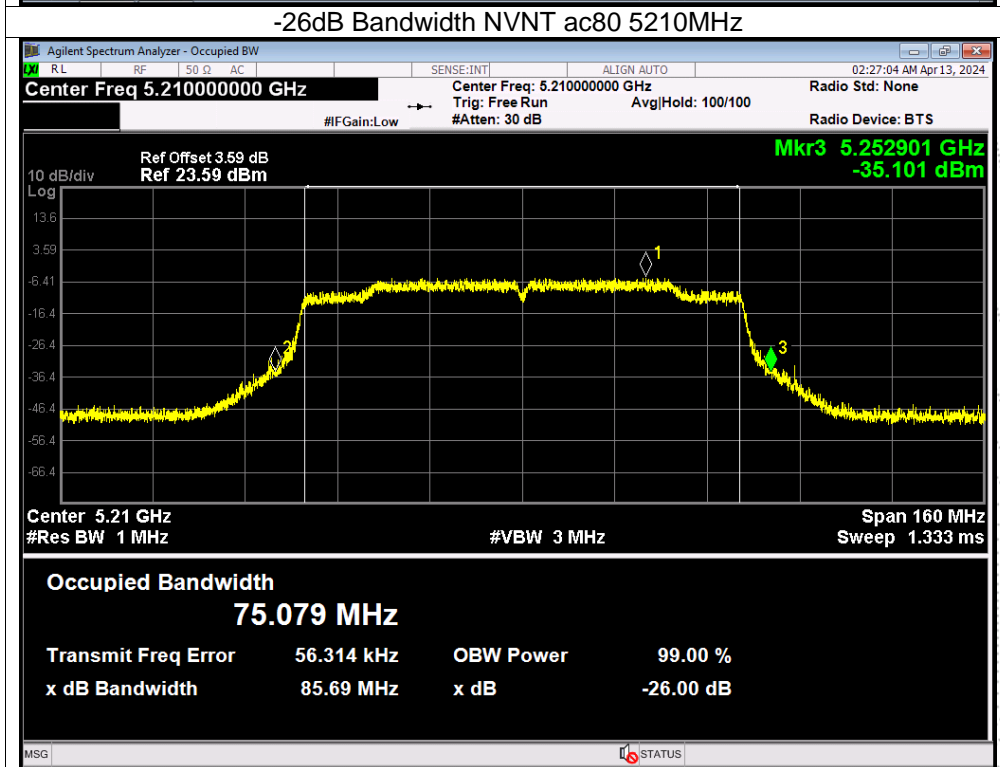
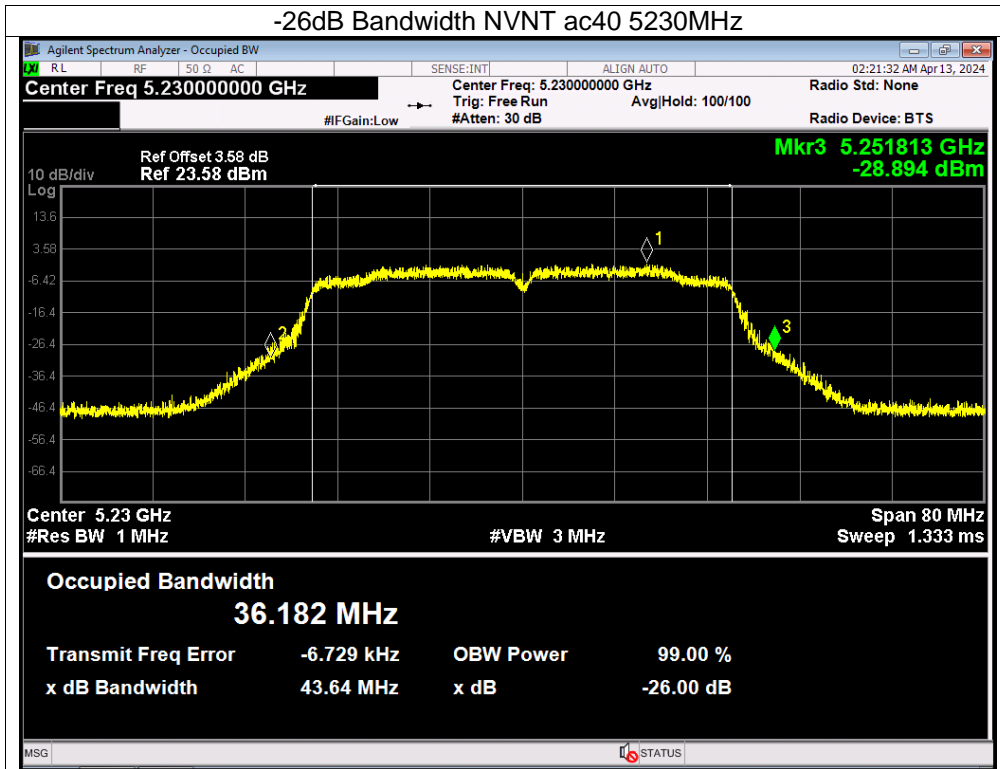


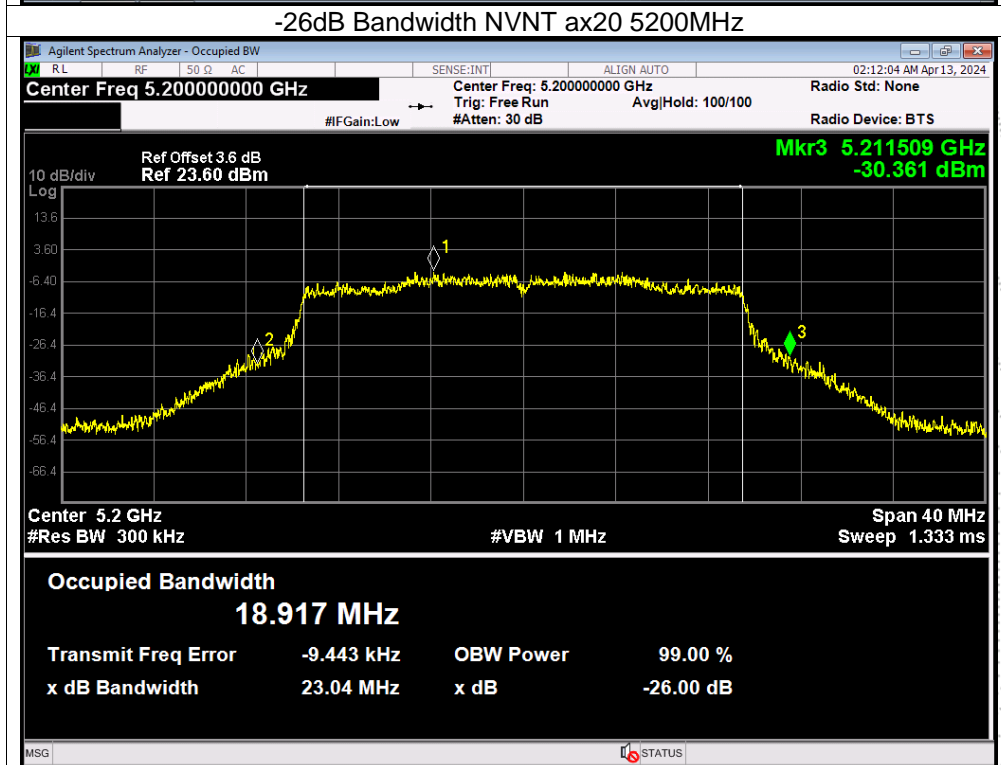
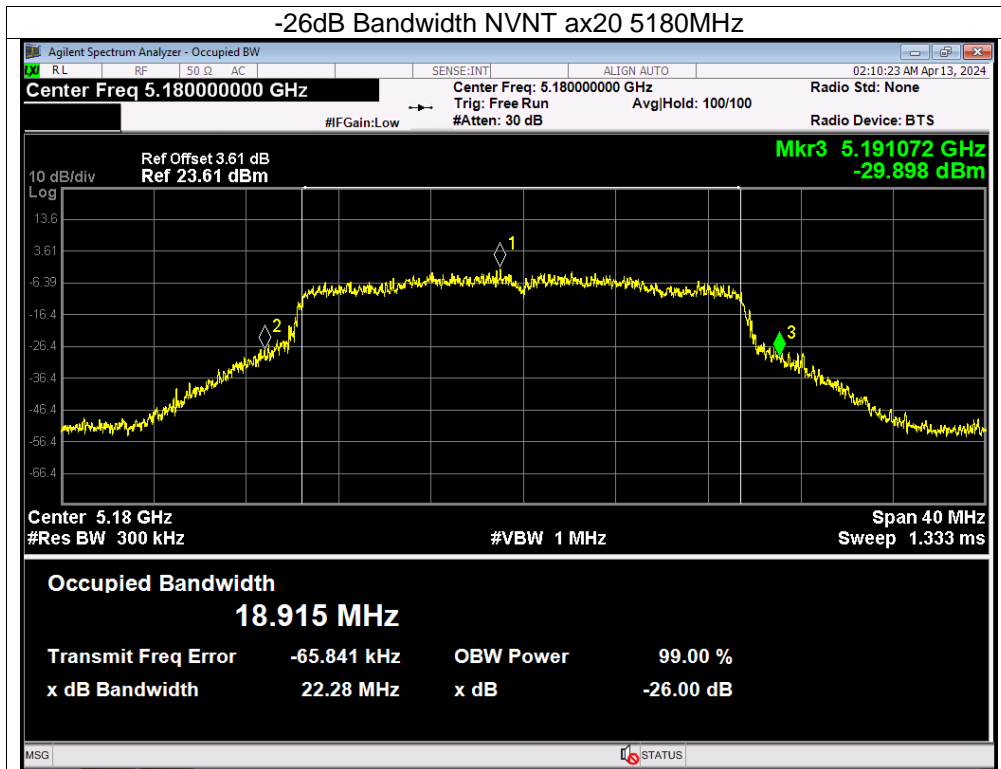




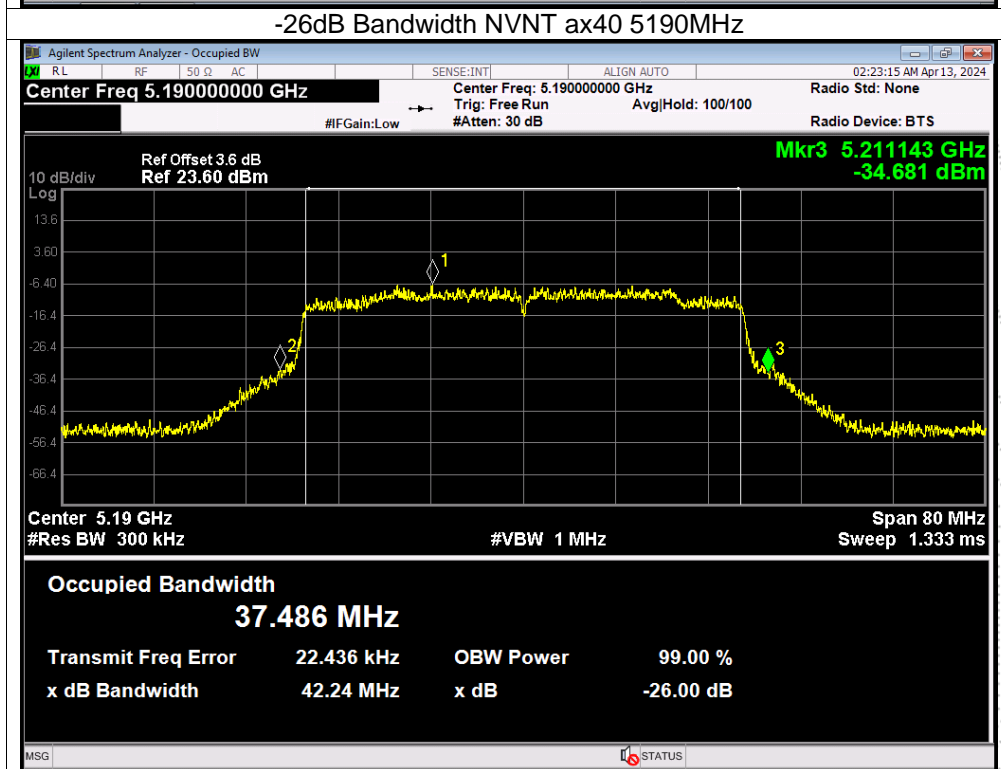
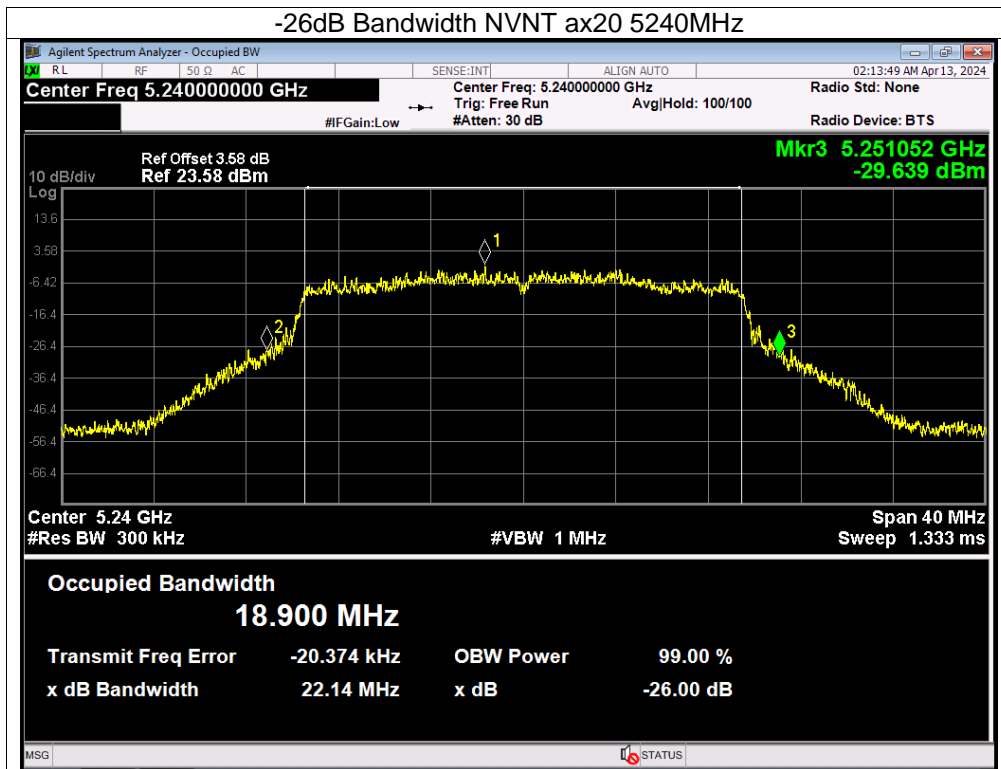


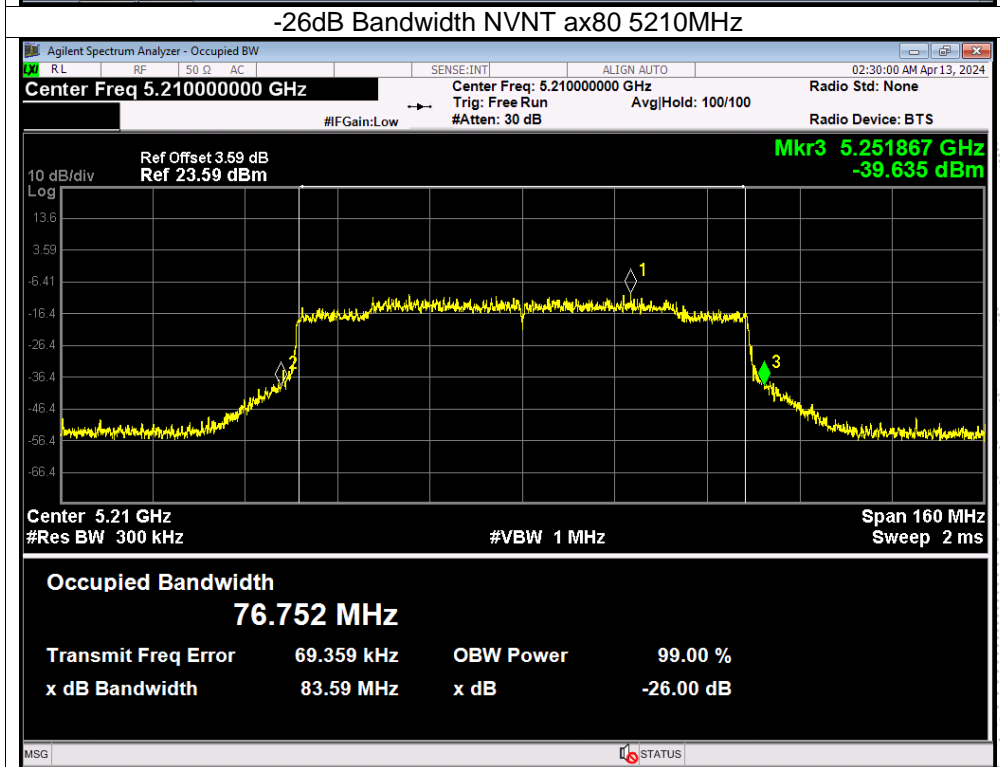
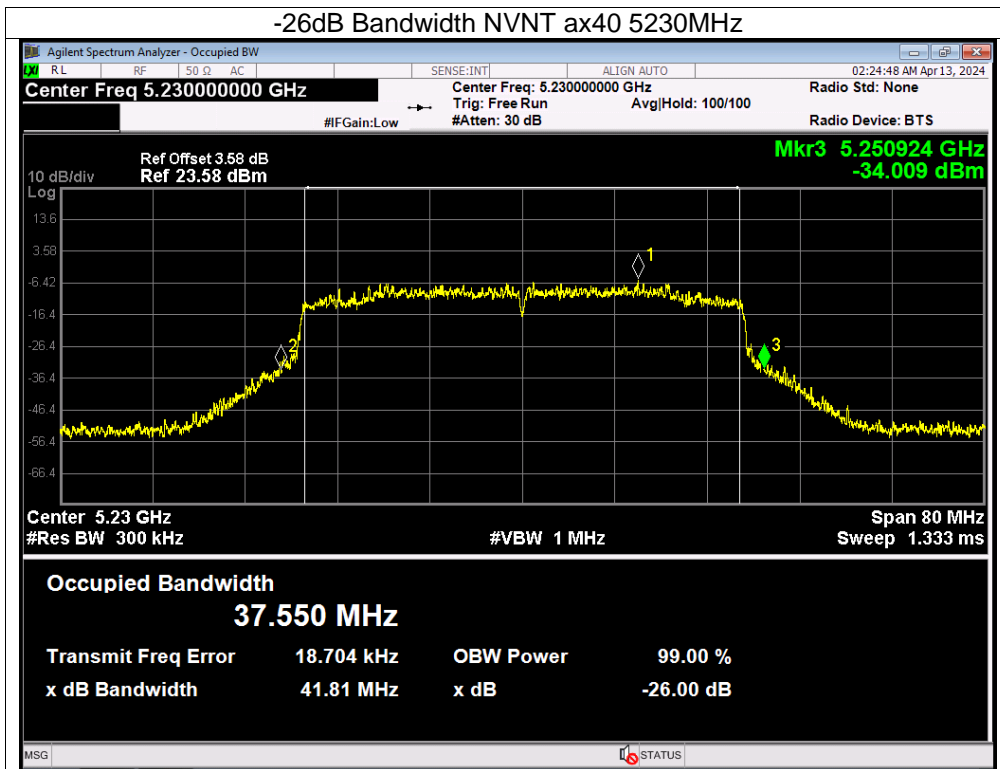




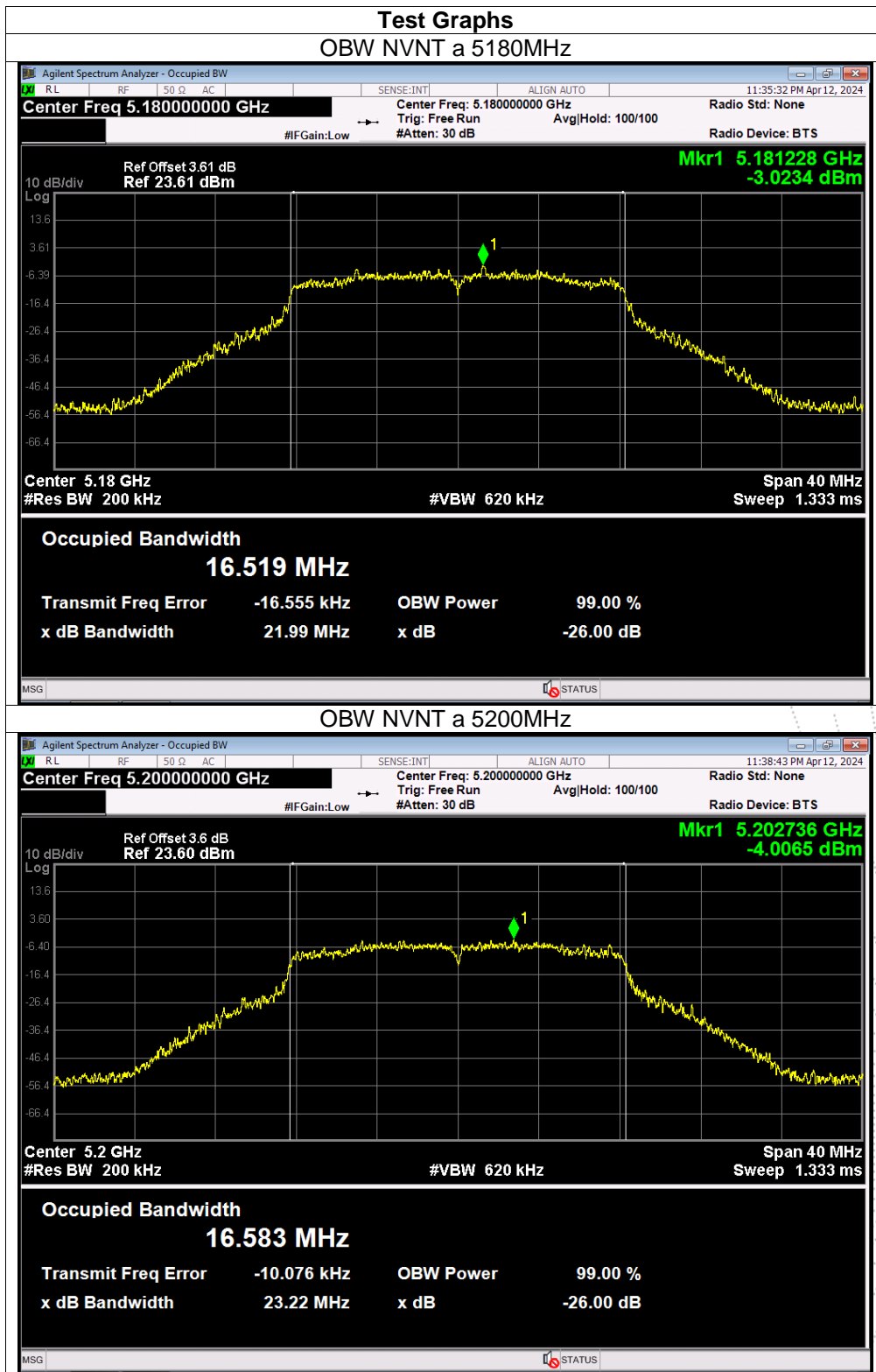


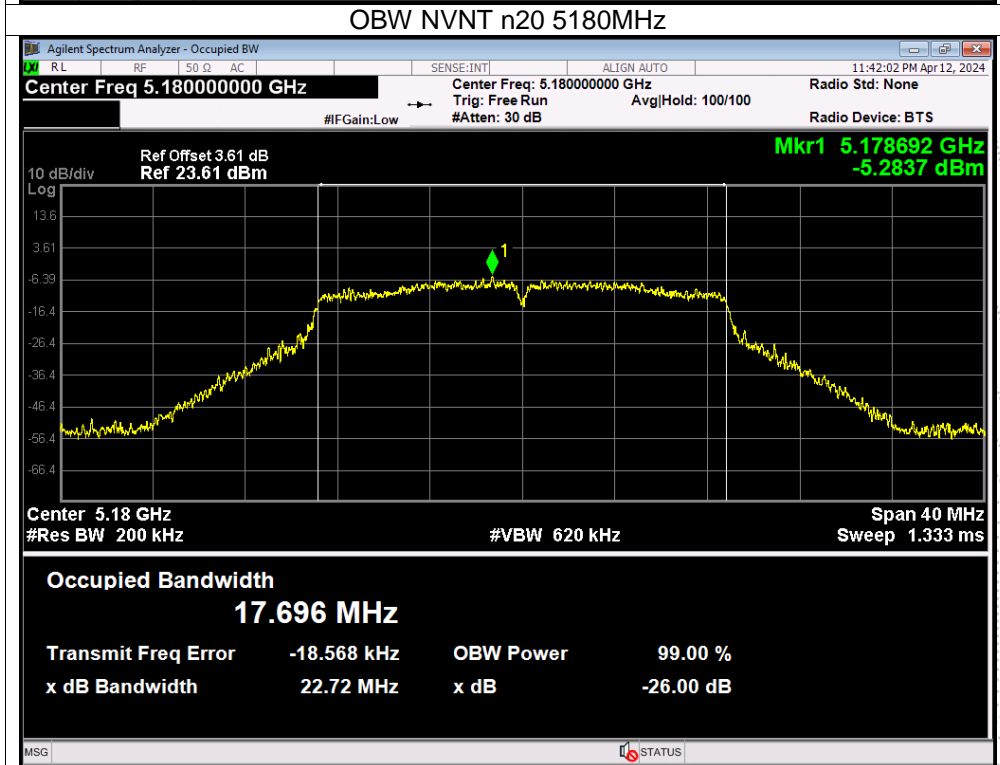
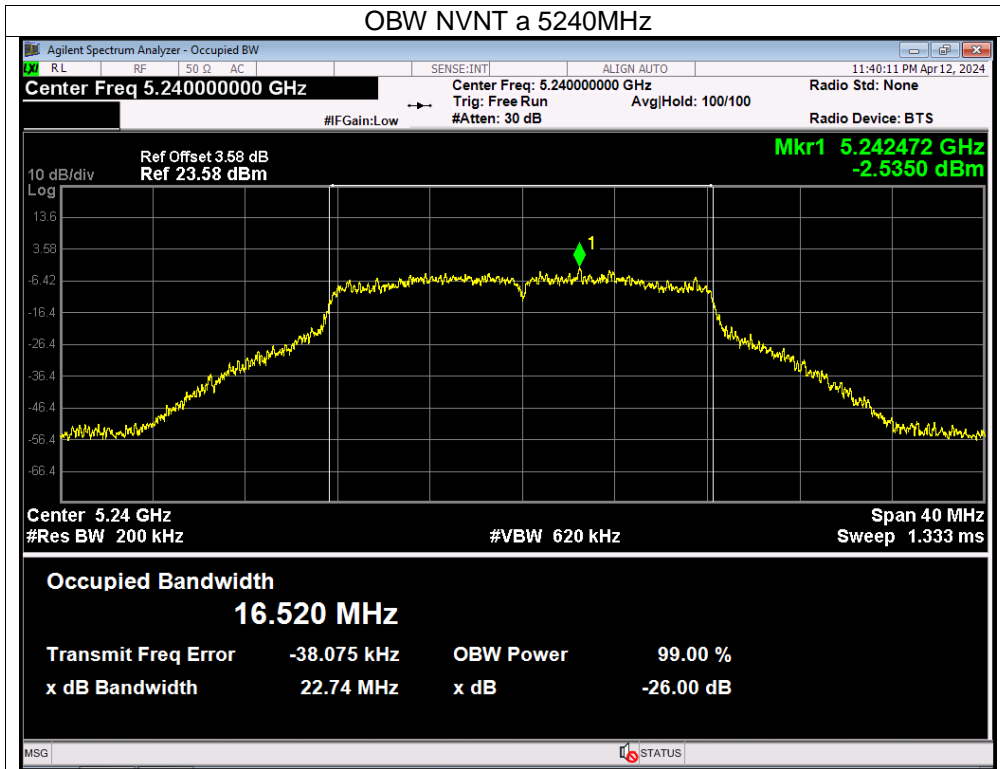
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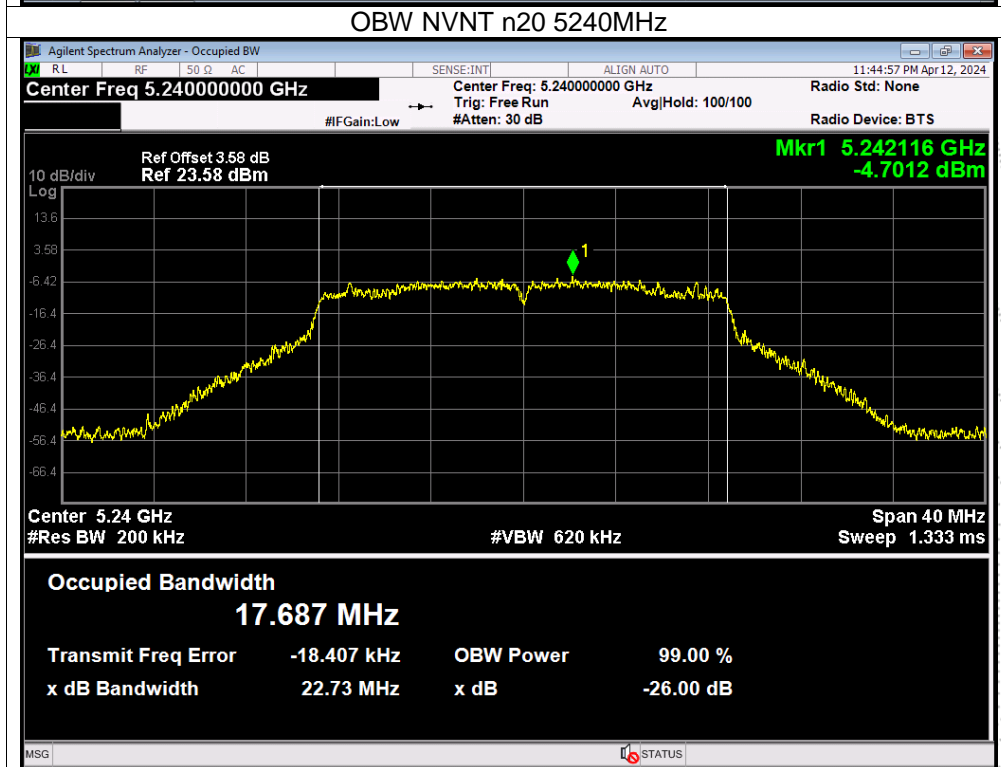
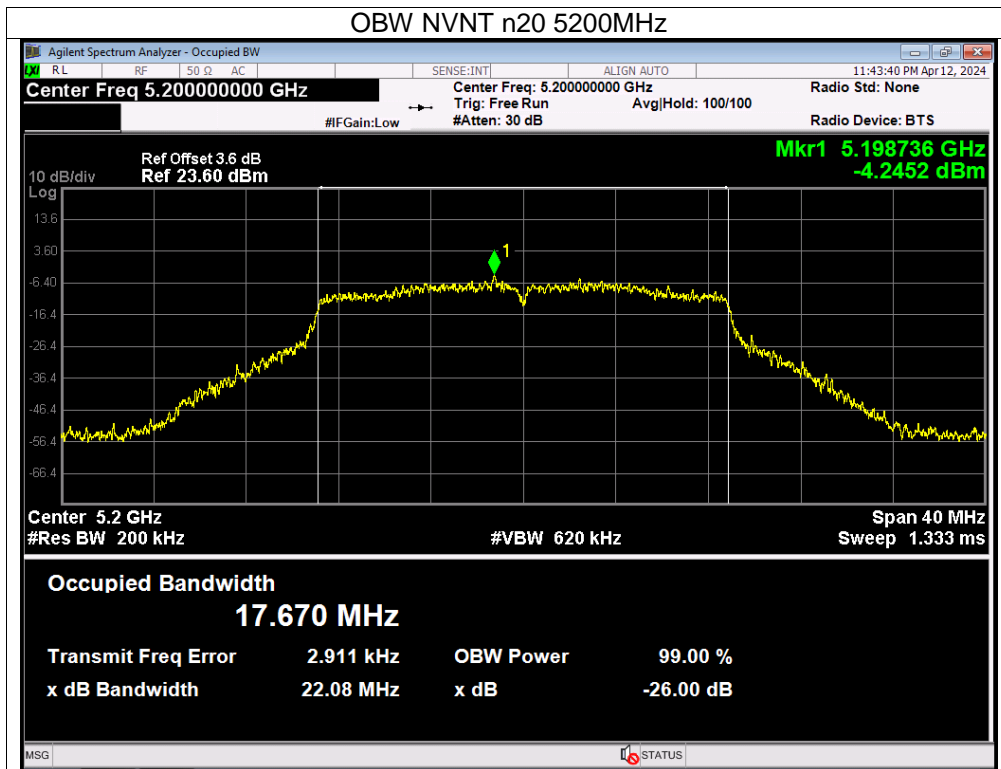


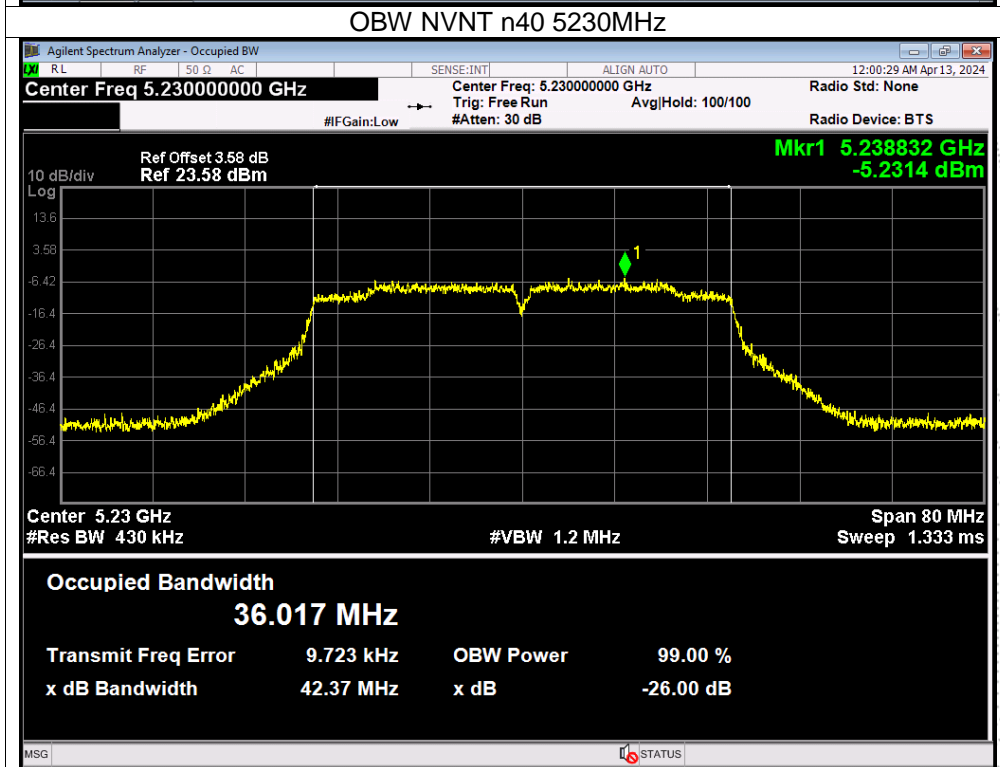
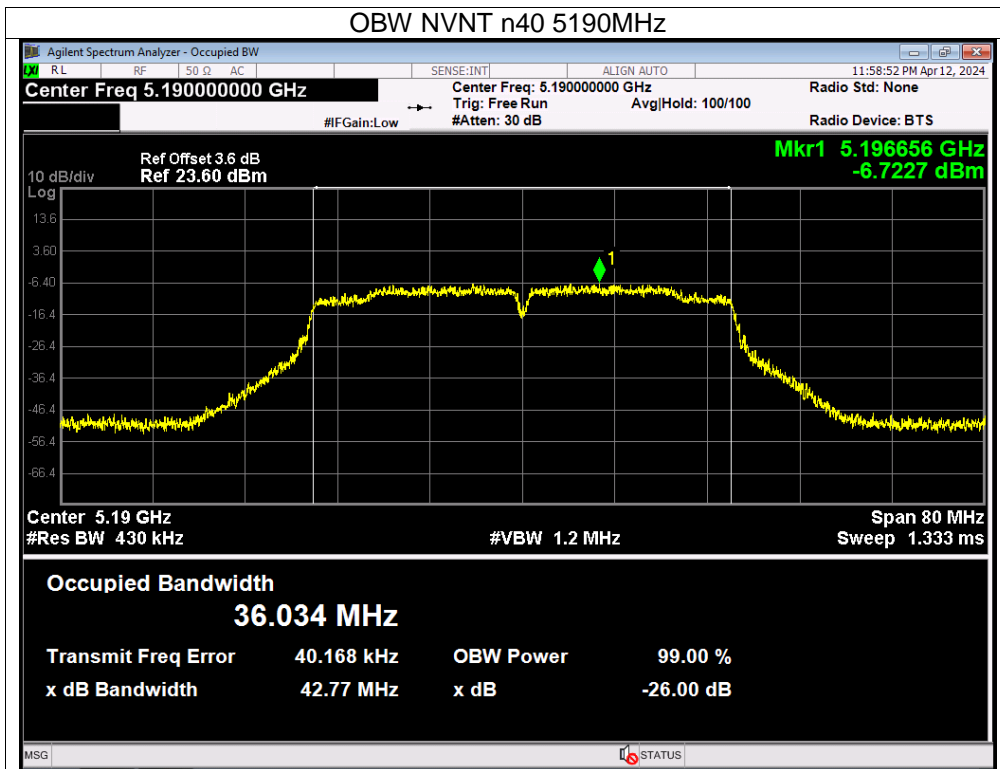


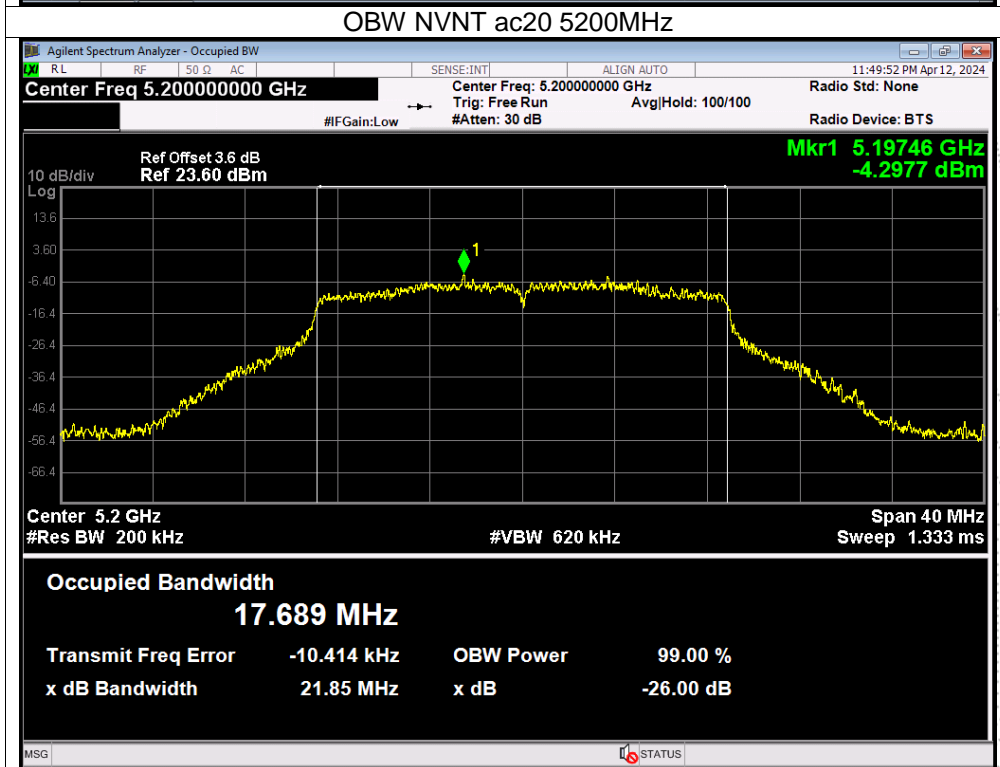
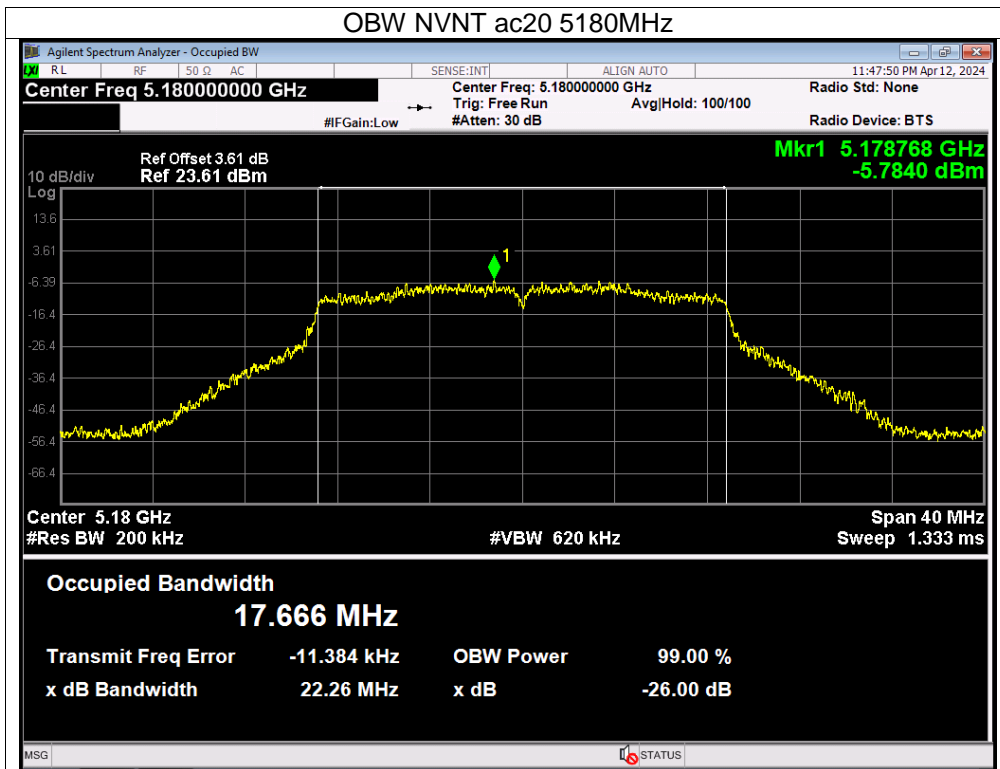
Note: A(B) Represent the value of antenna A and B. The worst data is Antenna A, only shown Antenna A Plot.

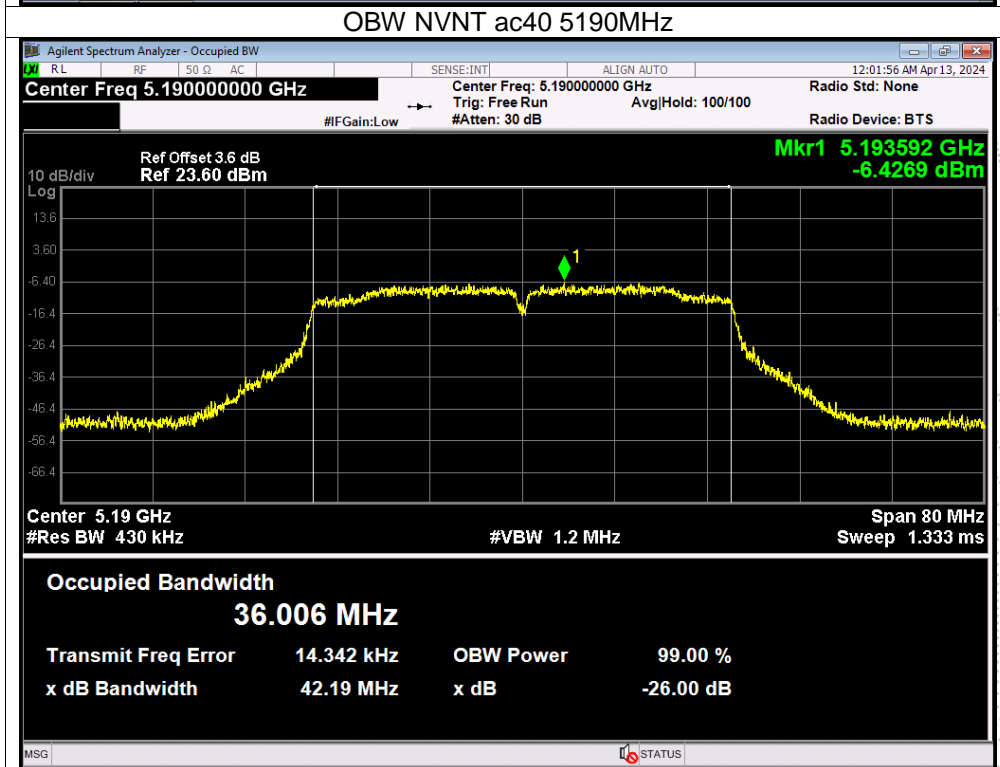
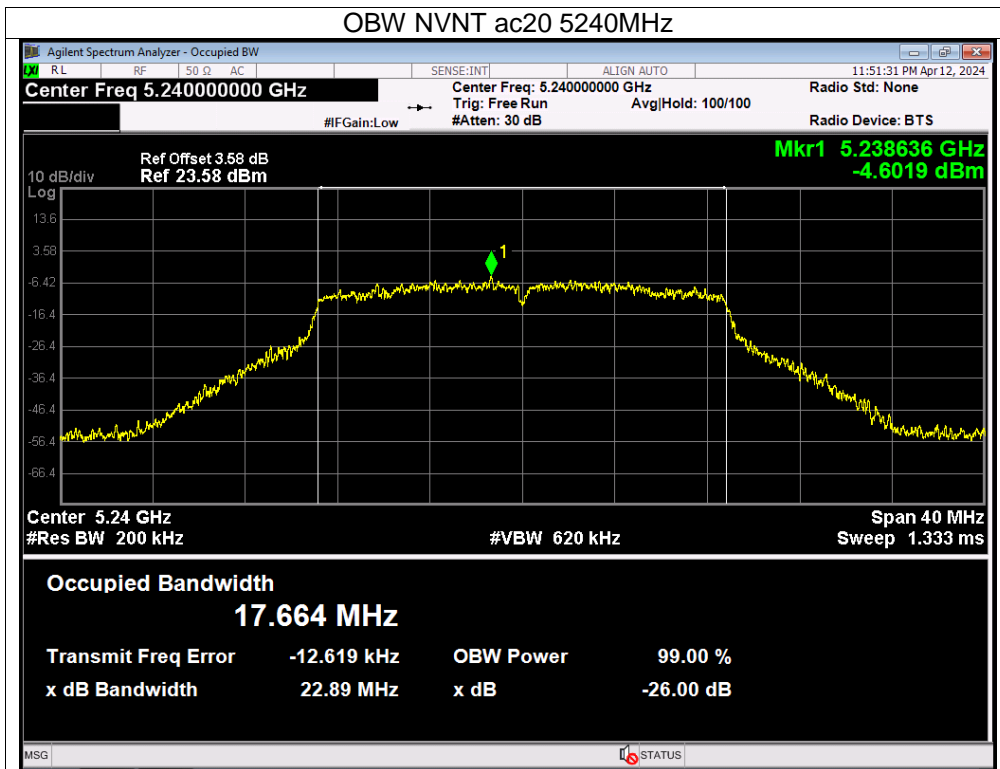


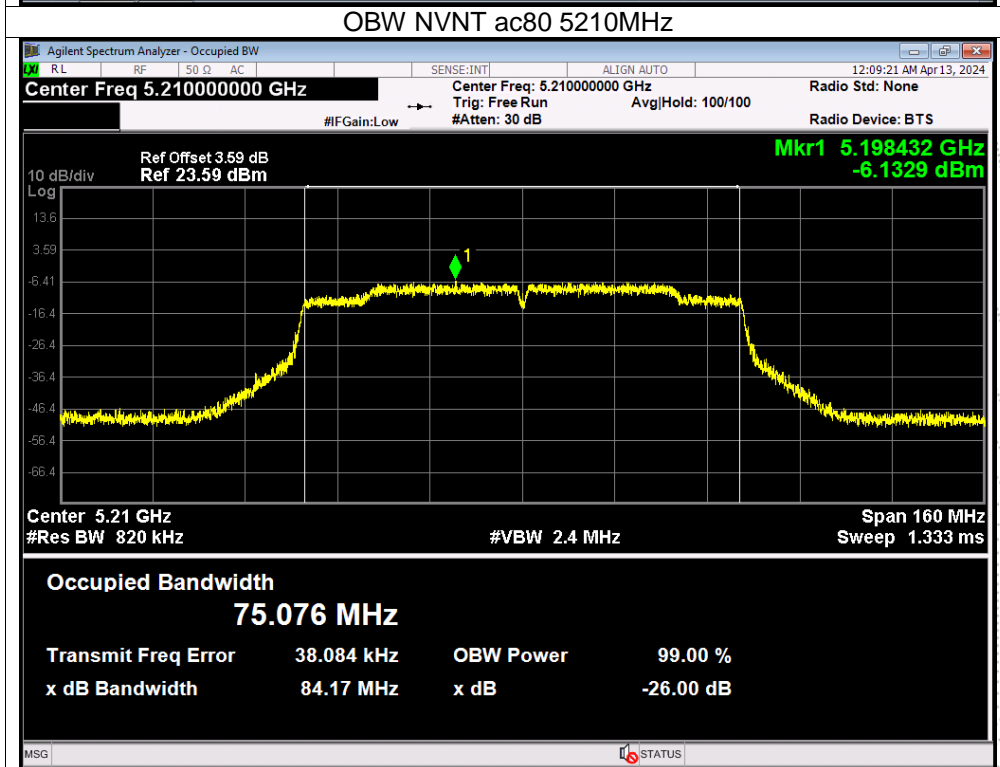
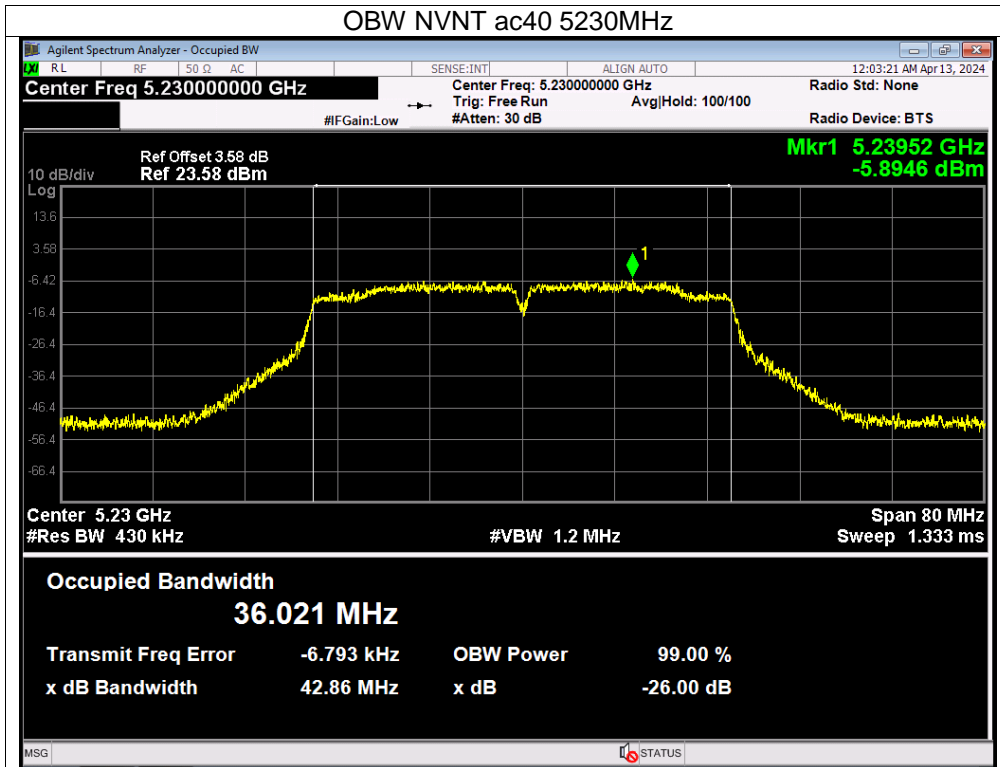


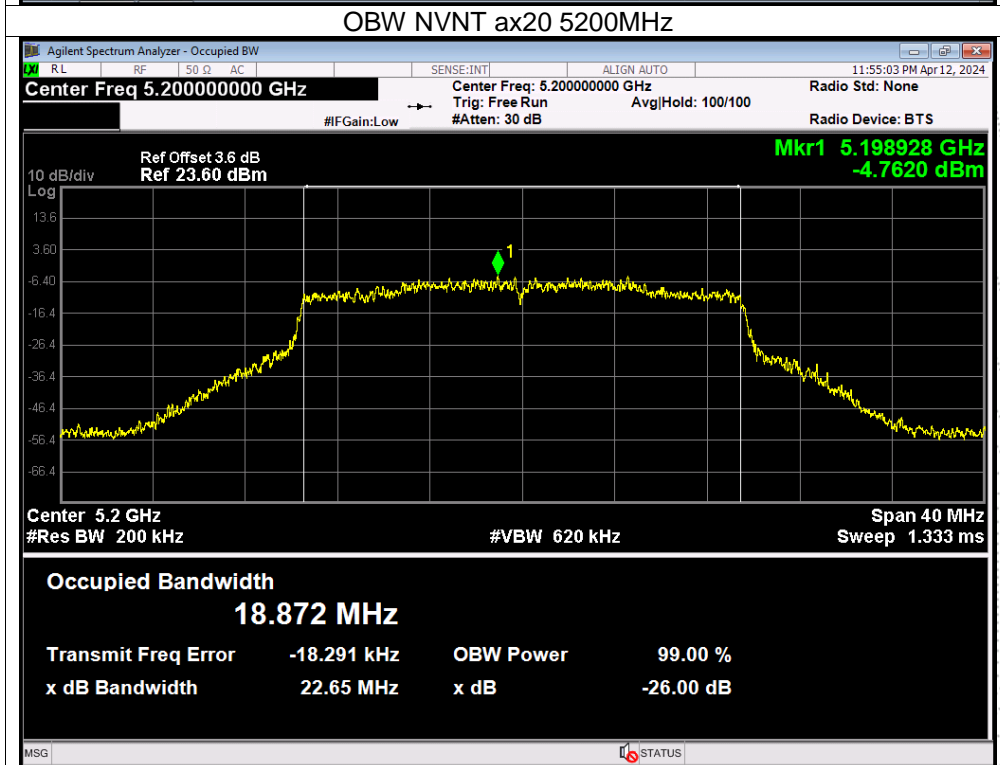
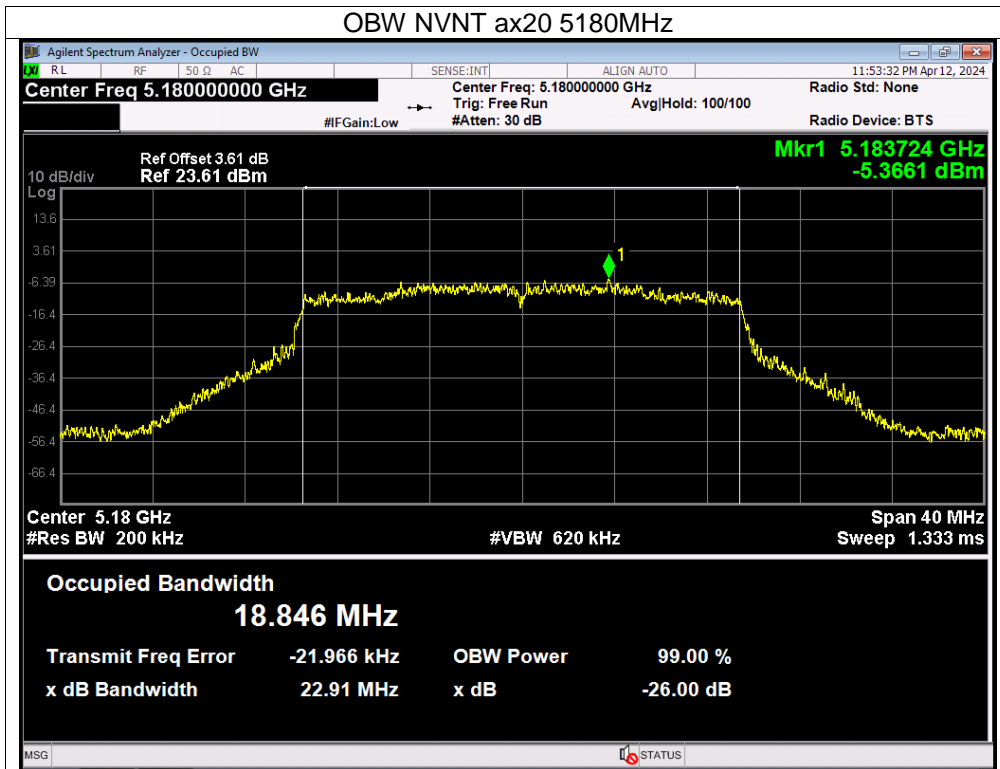


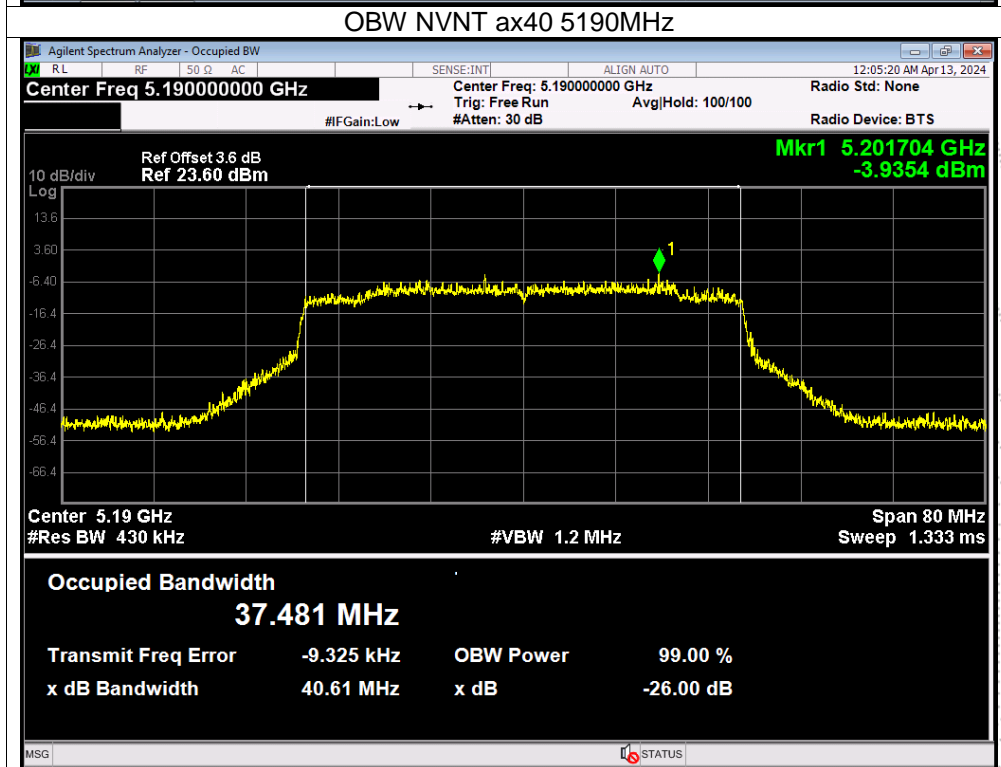
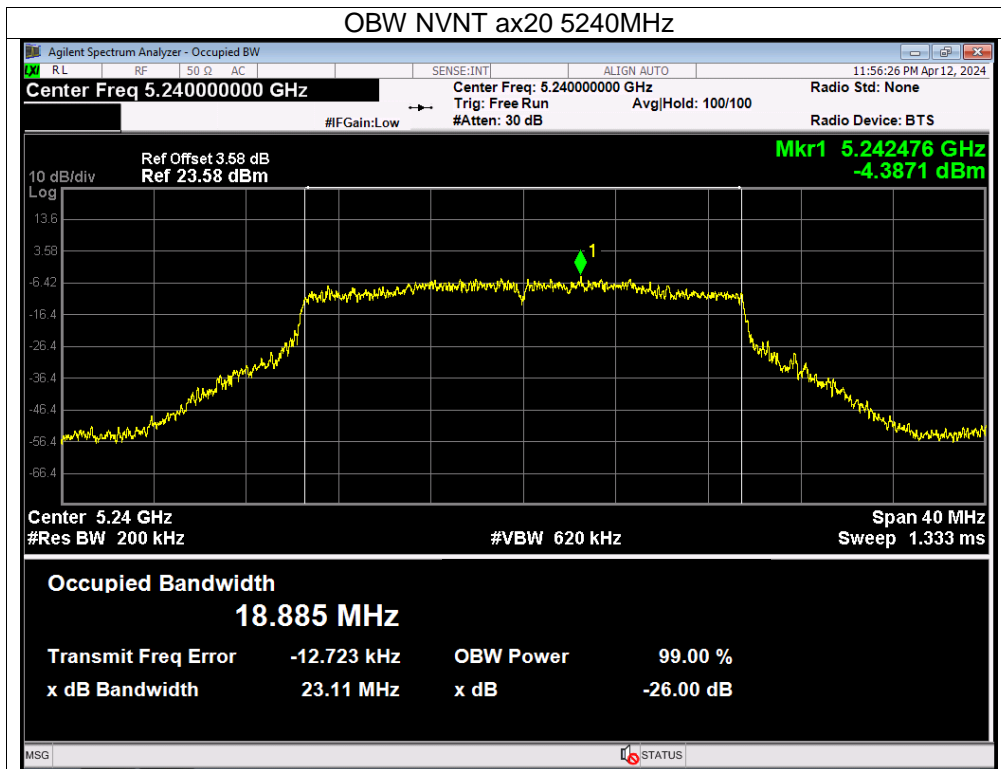


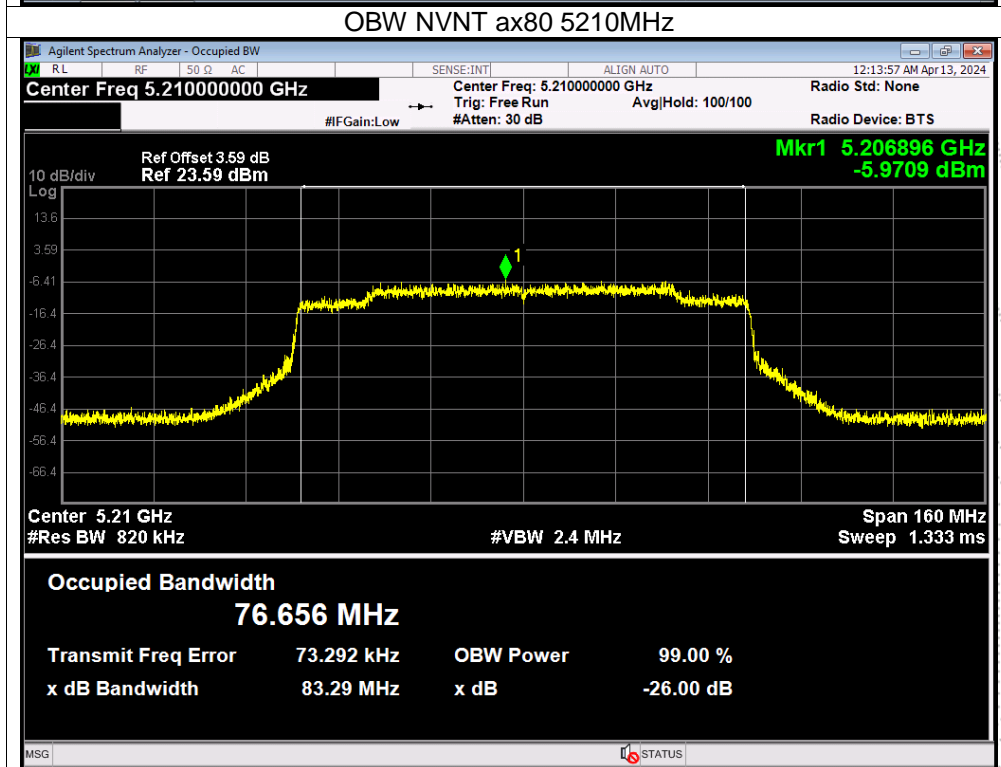
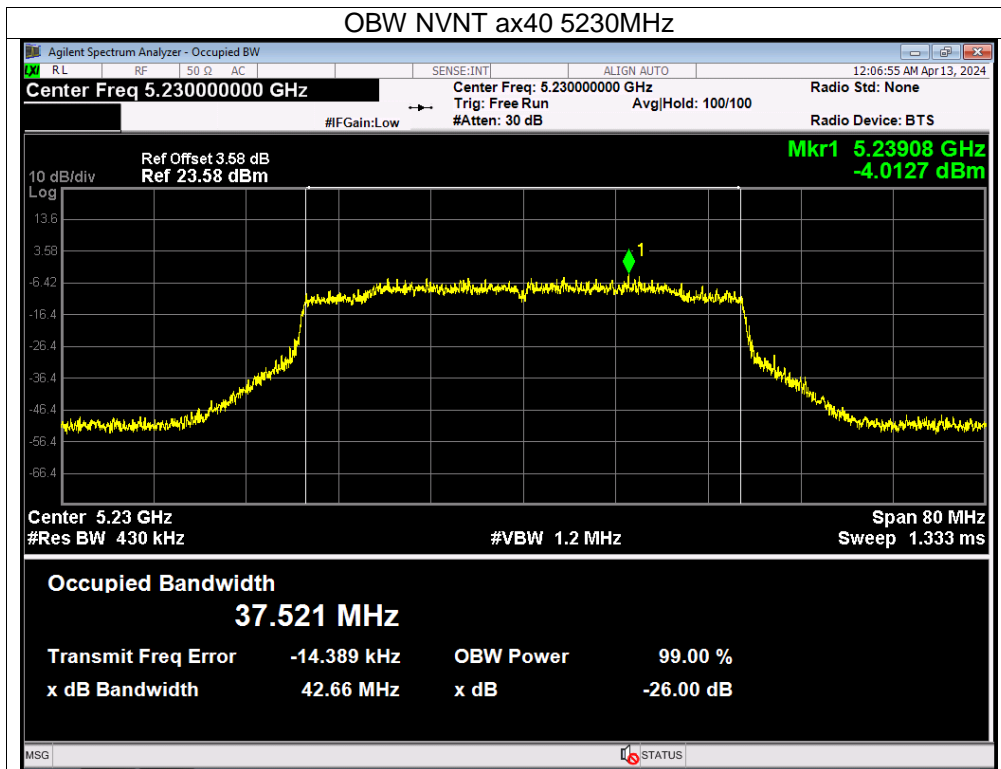










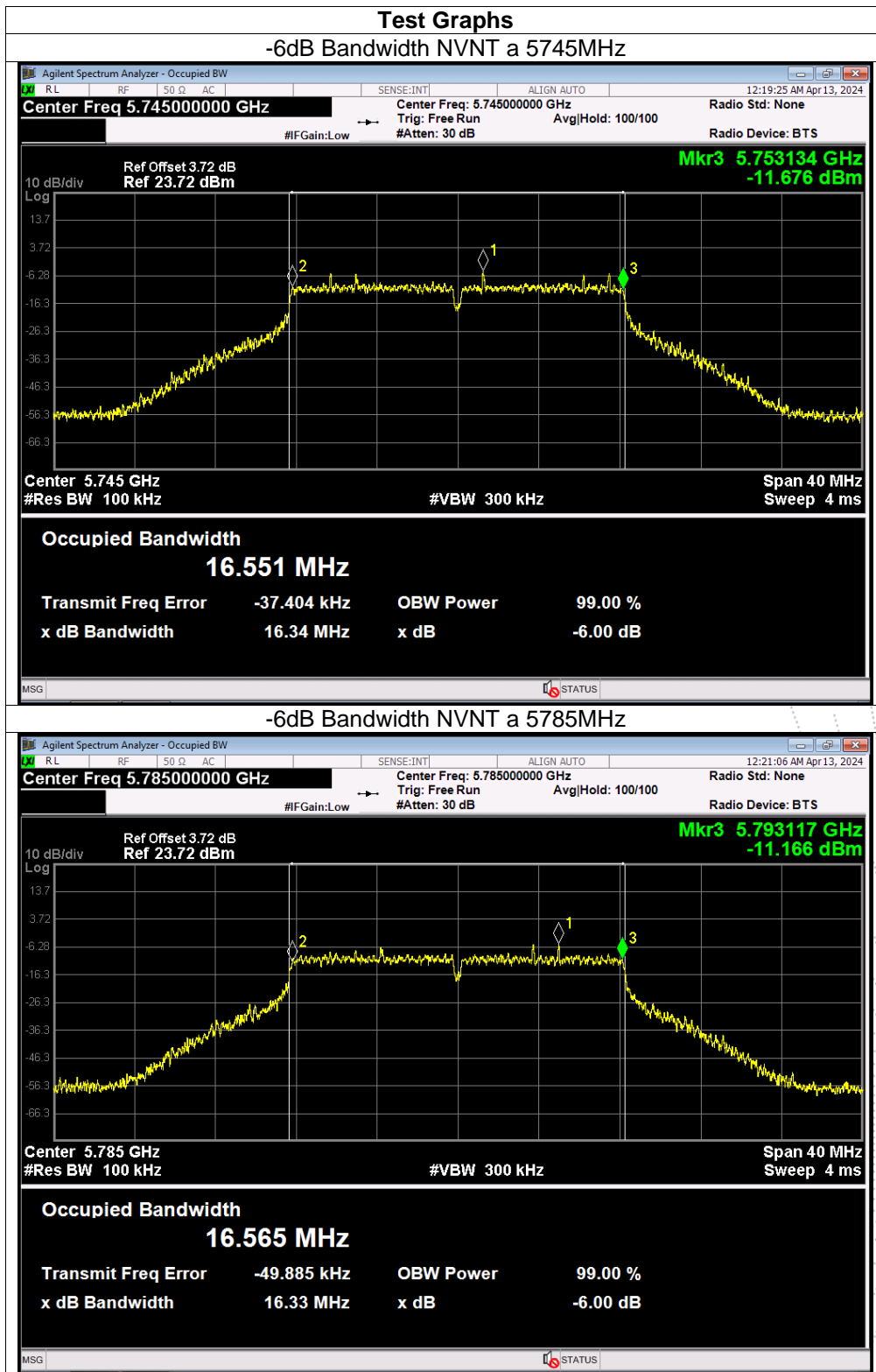


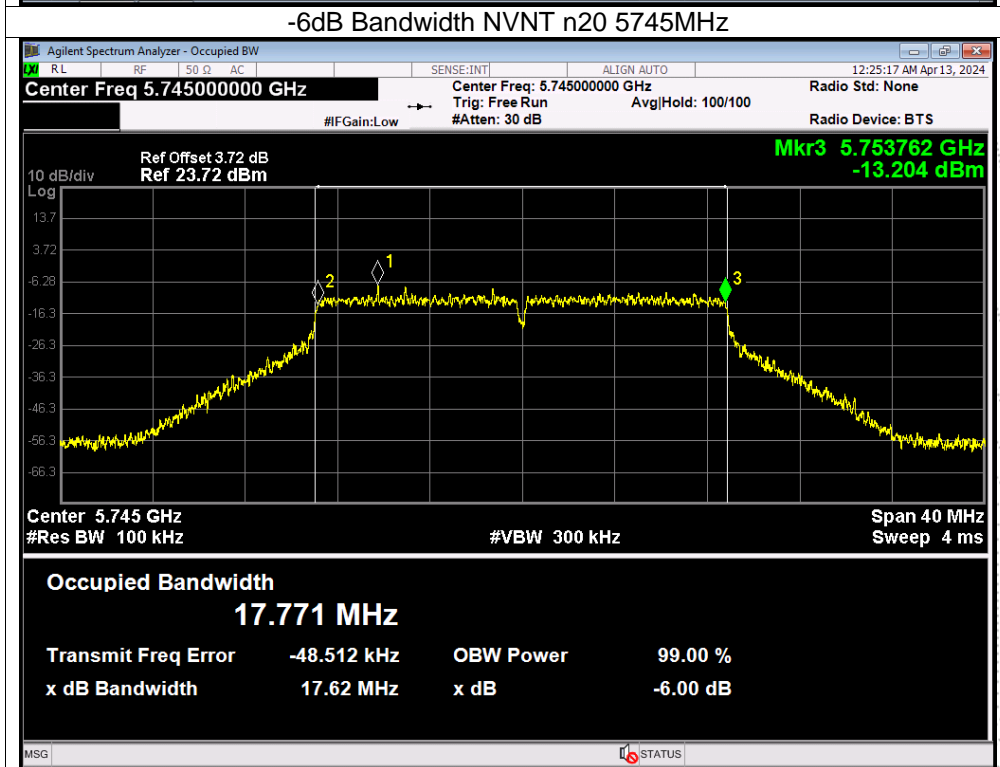
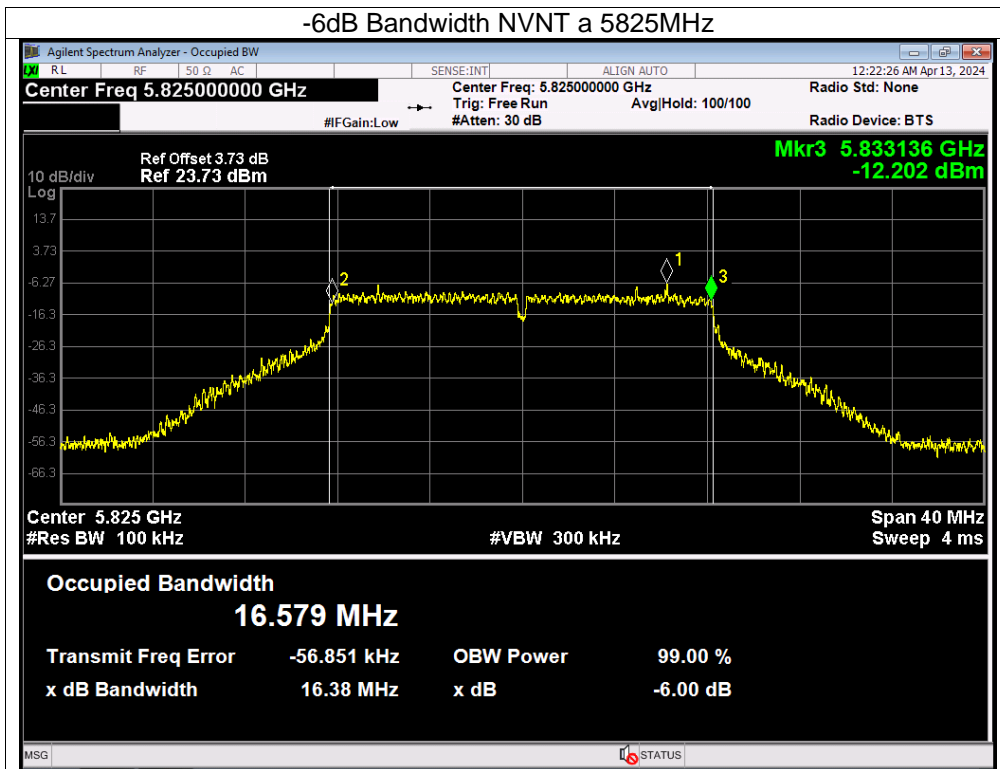
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 11.4V
Test Mode:	TX Frequency U-NII-3 (5745-5825MHz)		

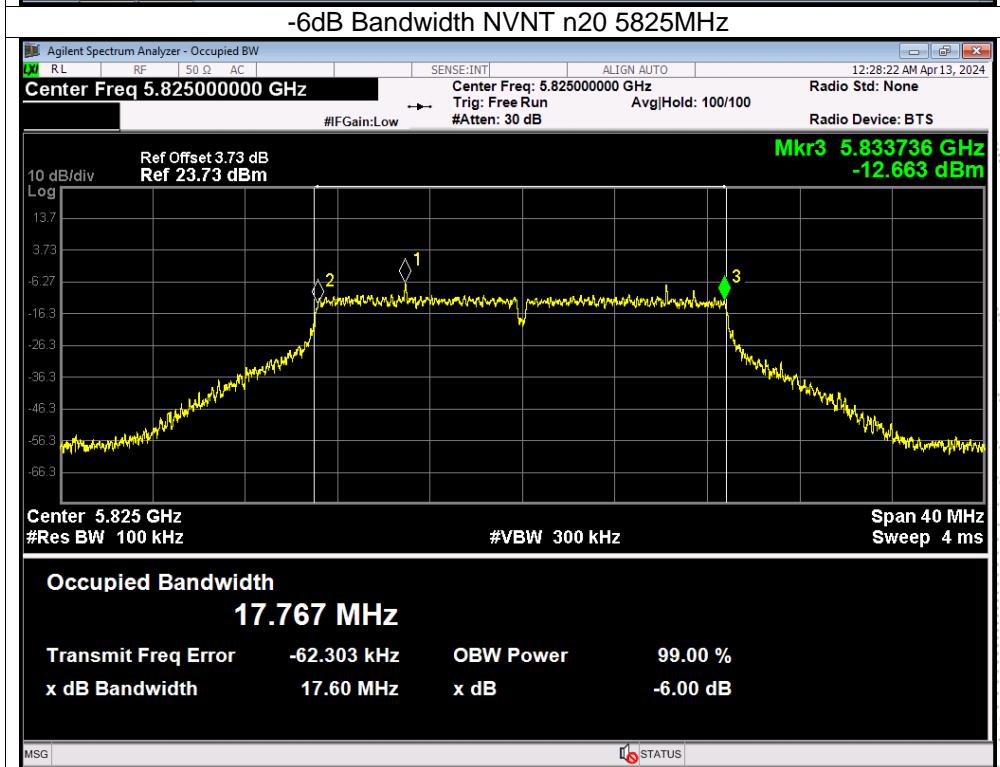
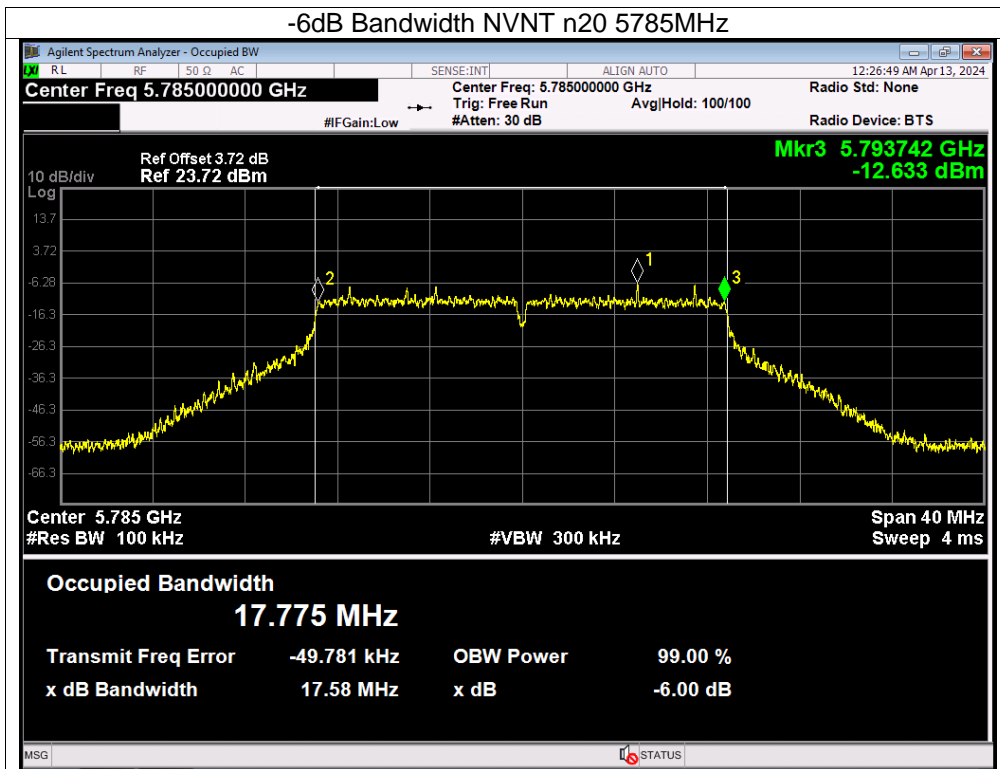
Mode	Channel	Frequency (MHz)	99% OBW (MHz)		-6dB bandwidth (MHz)		Limit -6dB bandwidth MHz	Result
			ANT A	ANT B	ANT A	ANT B		
NVNT	a	5745	16.703	16.725	16.342	16.313	0.5	Pass
NVNT	a	5785	16.704	16.704	16.334	16.343	0.5	Pass
NVNT	a	5825	16.719	16.706	16.385	16.363	0.5	Pass
NVNT	n20	5745	17.895	17.874	17.621	17.595	0.5	Pass
NVNT	n20	5785	17.845	17.84	17.584	17.553	0.5	Pass
NVNT	n20	5825	17.894	17.895	17.596	17.548	0.5	Pass
NVNT	n40	5755	36.382	36.382	36.375	36.342	0.5	Pass
NVNT	n40	5795	36.322	36.35	36.325	36.328	0.5	Pass
NVNT	ac20	5745	17.848	17.871	17.584	17.579	0.5	Pass
NVNT	ac20	5785	17.868	17.875	17.559	17.568	0.5	Pass
NVNT	ac20	5825	17.865	17.847	17.583	17.748	0.5	Pass
NVNT	ac40	5755	36.373	36.389	36.045	36.316	0.5	Pass
NVNT	ac40	5795	36.373	36.338	36.324	36.364	0.5	Pass
NVNT	ac80	5775	75.042	75.031	57.362	66.331	0.5	Pass
NVNT	ax20	5745	18.982	19.033	18.643	18.741	0.5	Pass
NVNT	ax20	5785	19.022	19.045	18.802	18.849	0.5	Pass
NVNT	ax20	5825	18.999	19.068	18.281	18.452	0.5	Pass
NVNT	ax40	5755	37.763	37.787	37.549	37.749	0.5	Pass
NVNT	ax40	5795	37.717	37.81	37.785	37.387	0.5	Pass
NVNT	ax80	5775	76.694	76.65	70.013	62.624	0.5	Pass

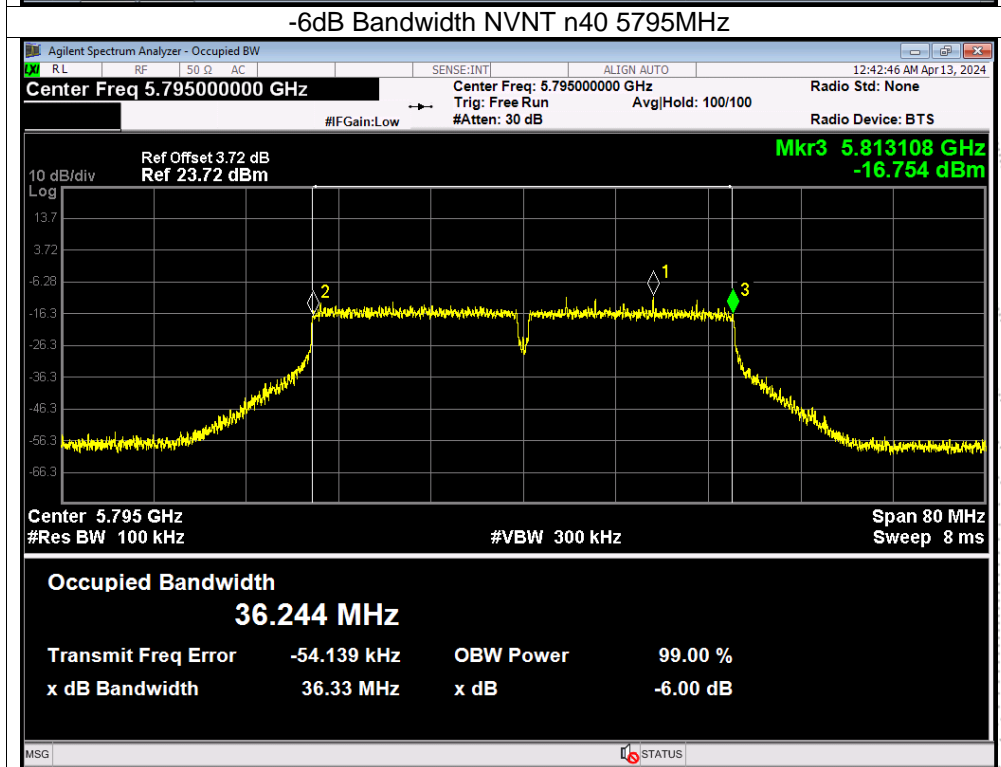
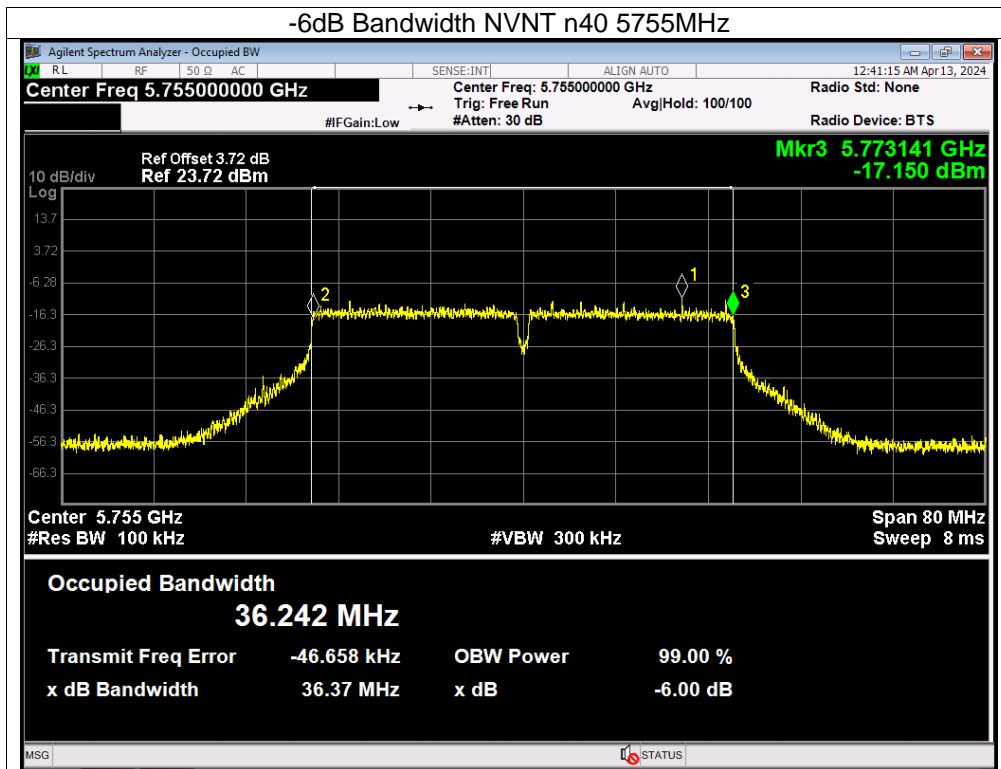
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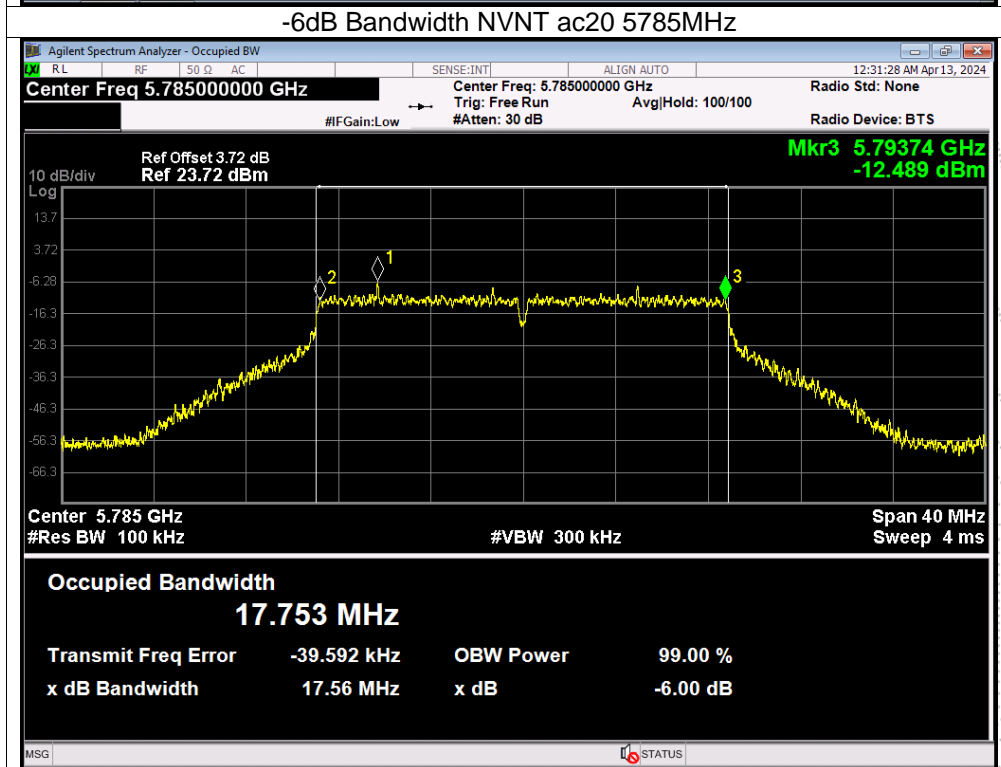
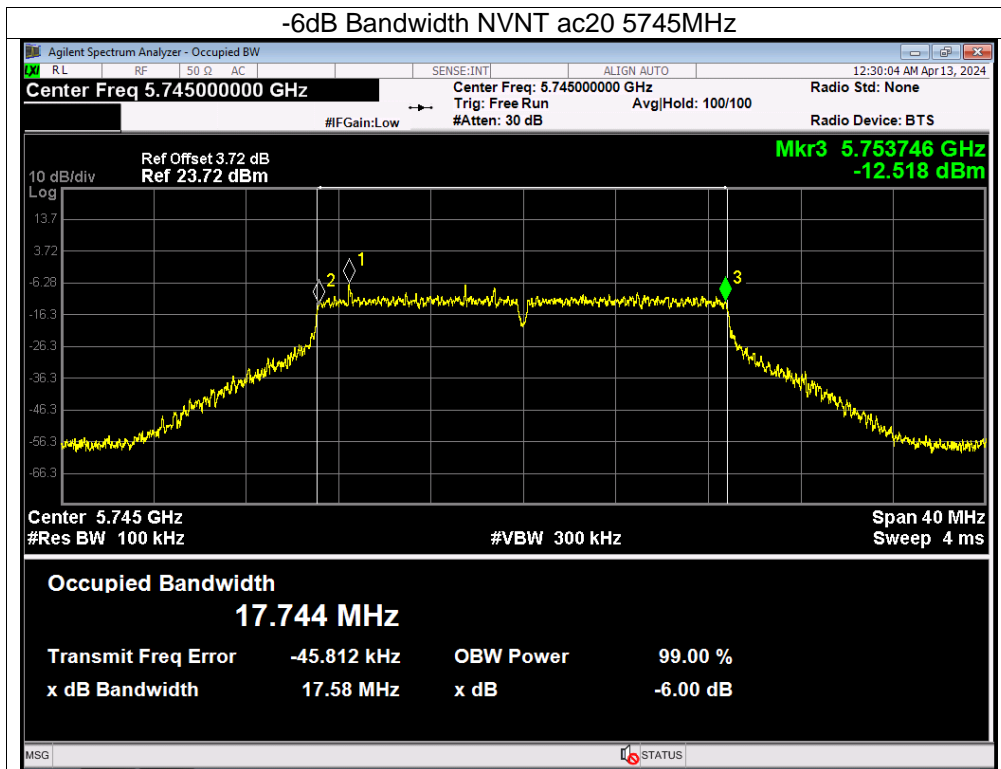
Note: A(B) Represent the value of antenna A and B. The worst data is Antenna A, only shown Antenna A Plot.

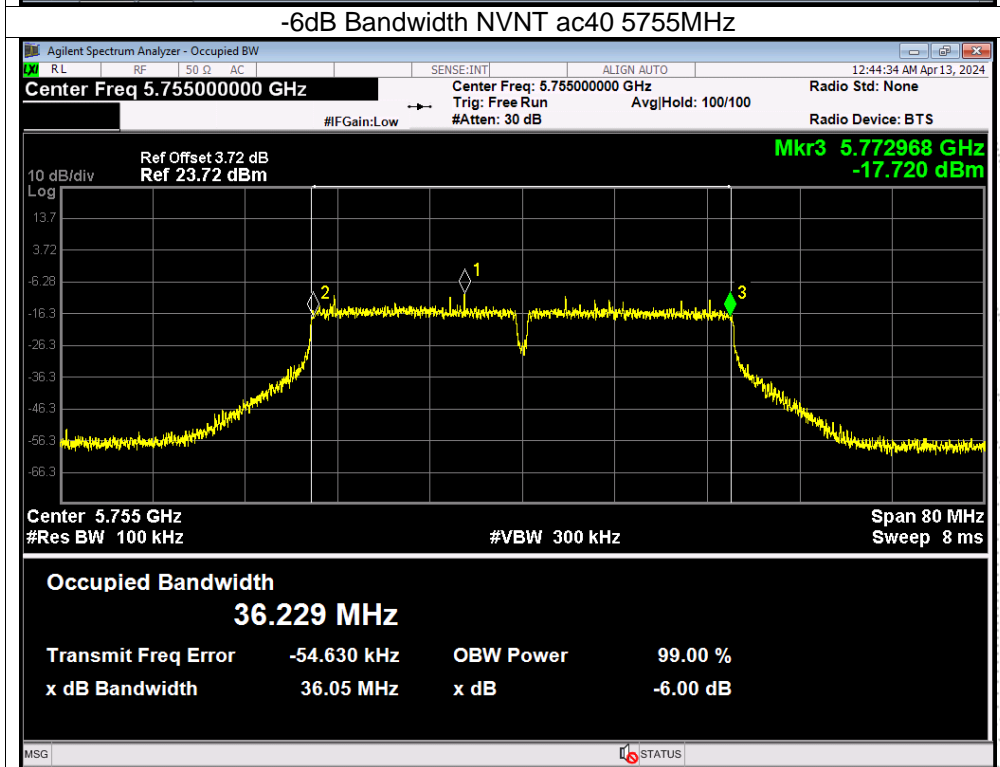
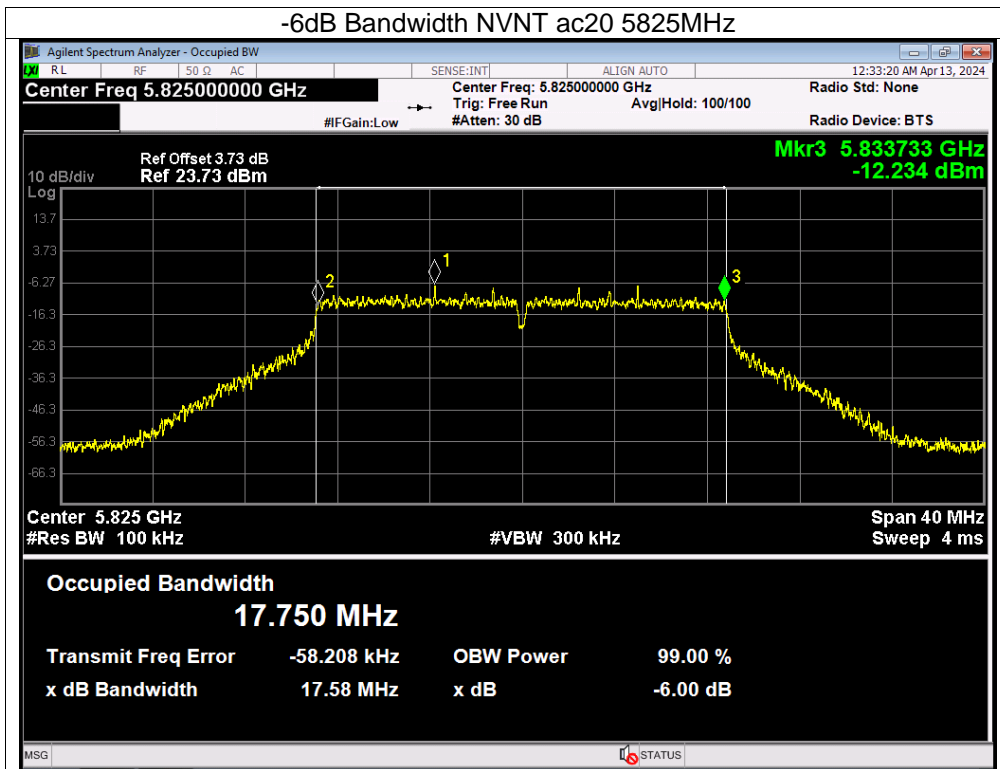


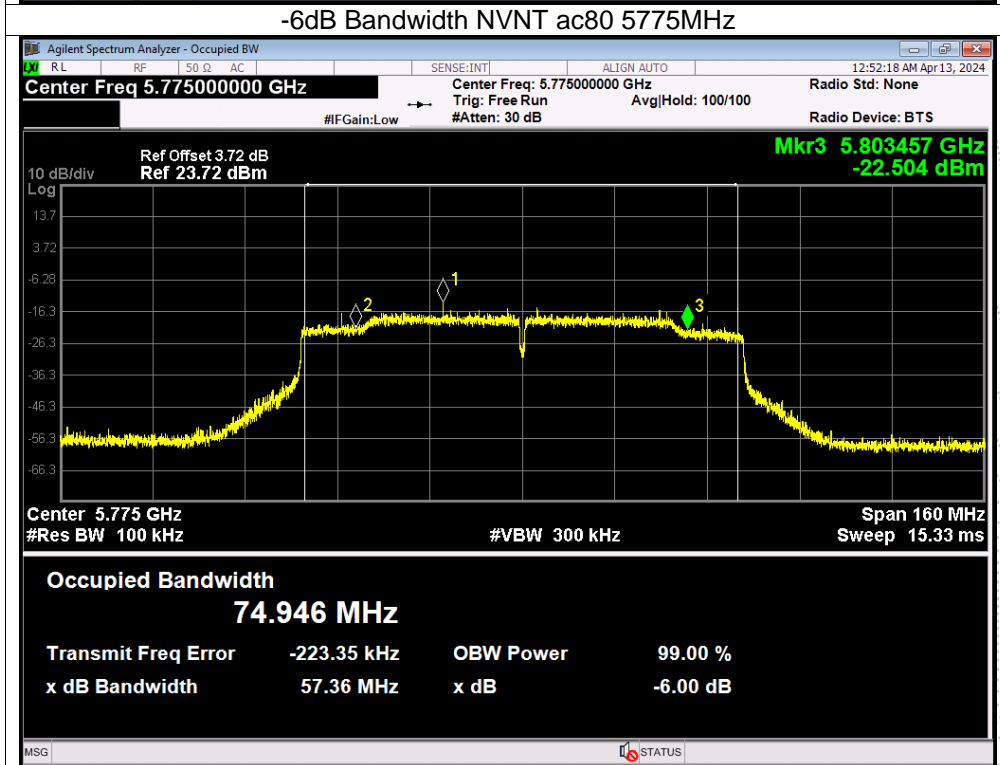
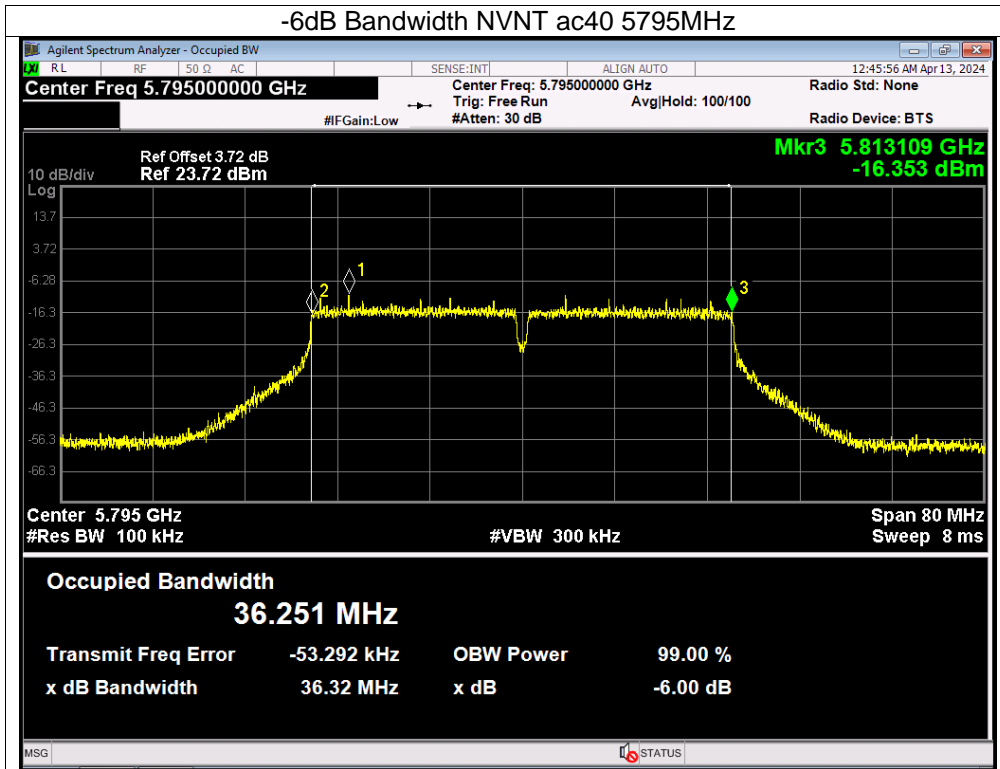




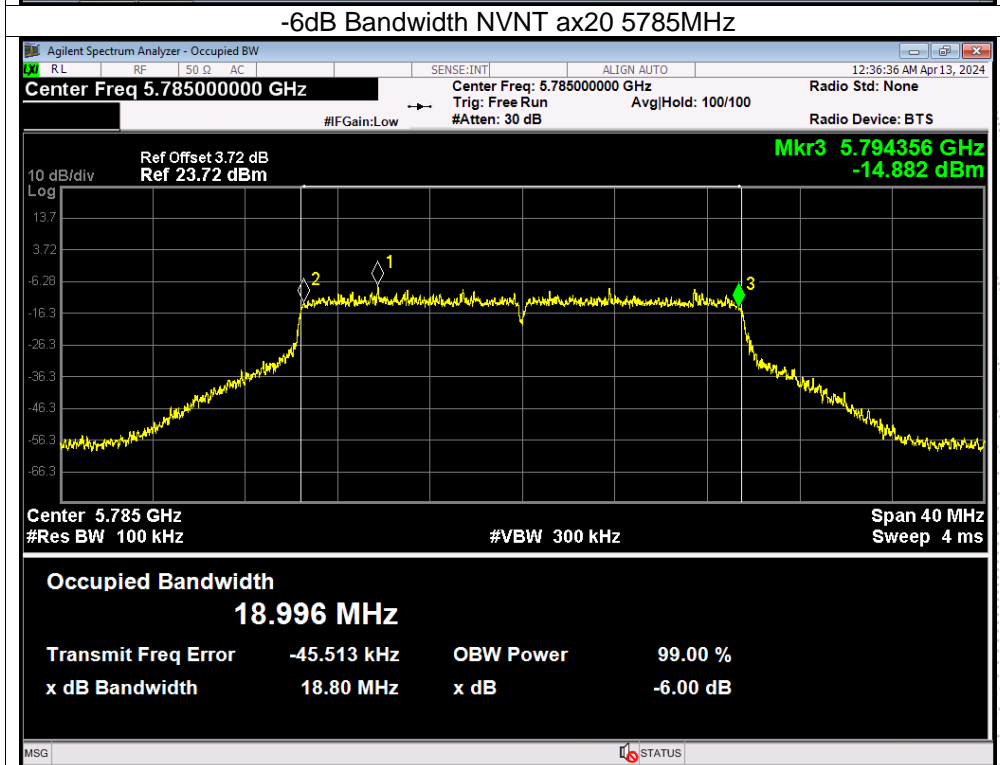
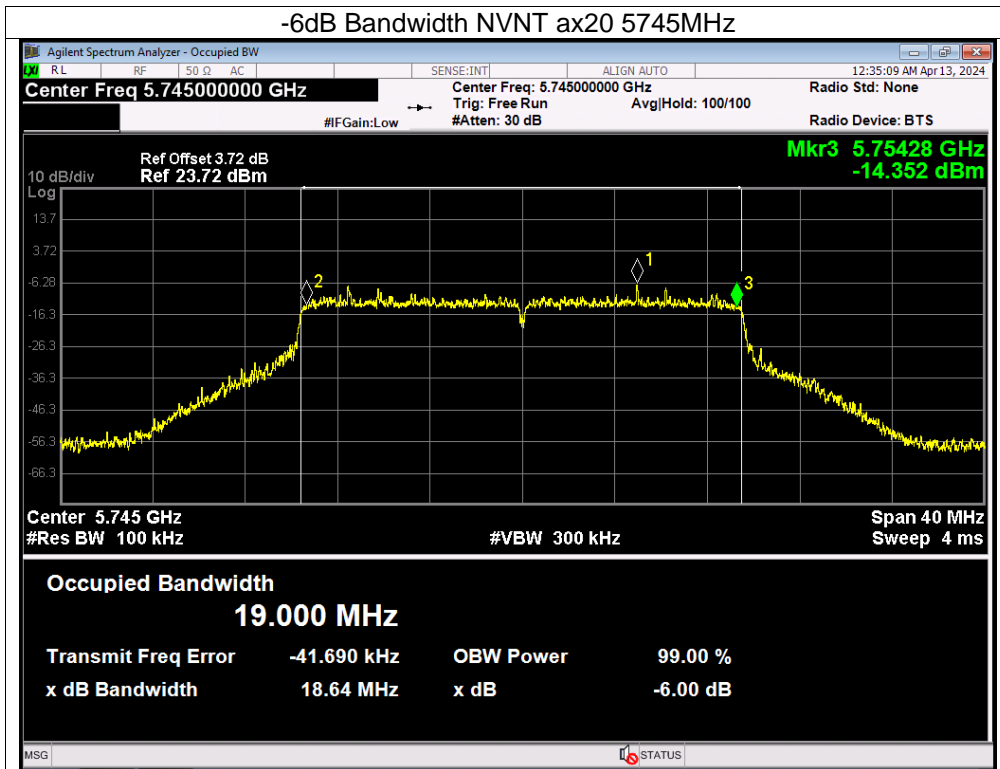




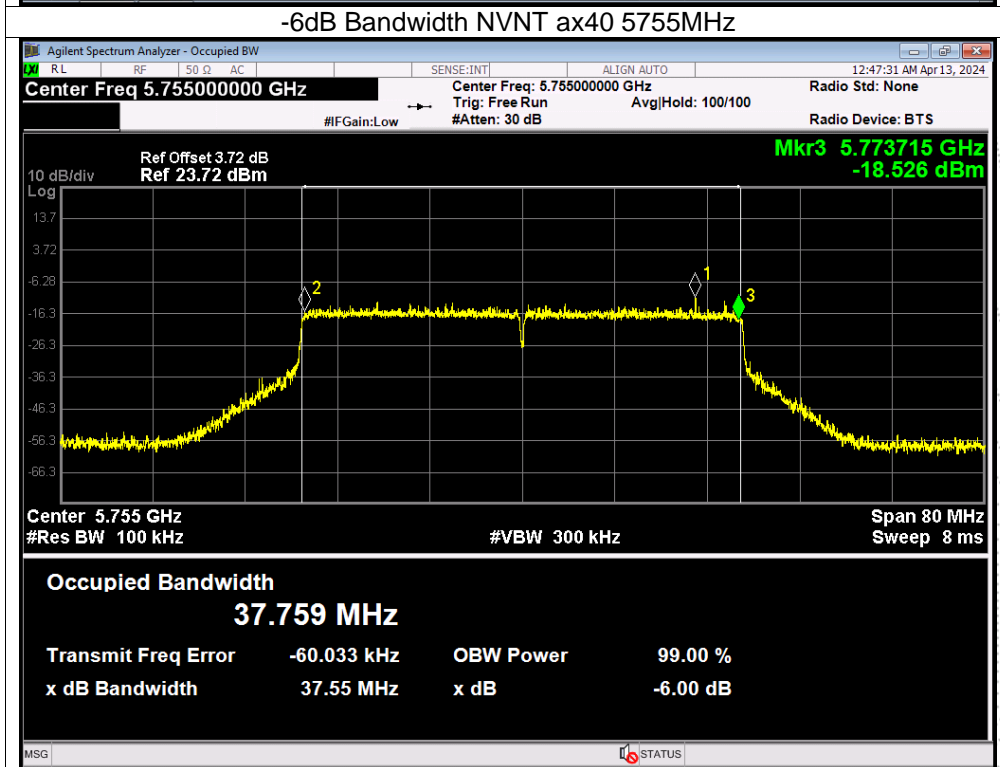
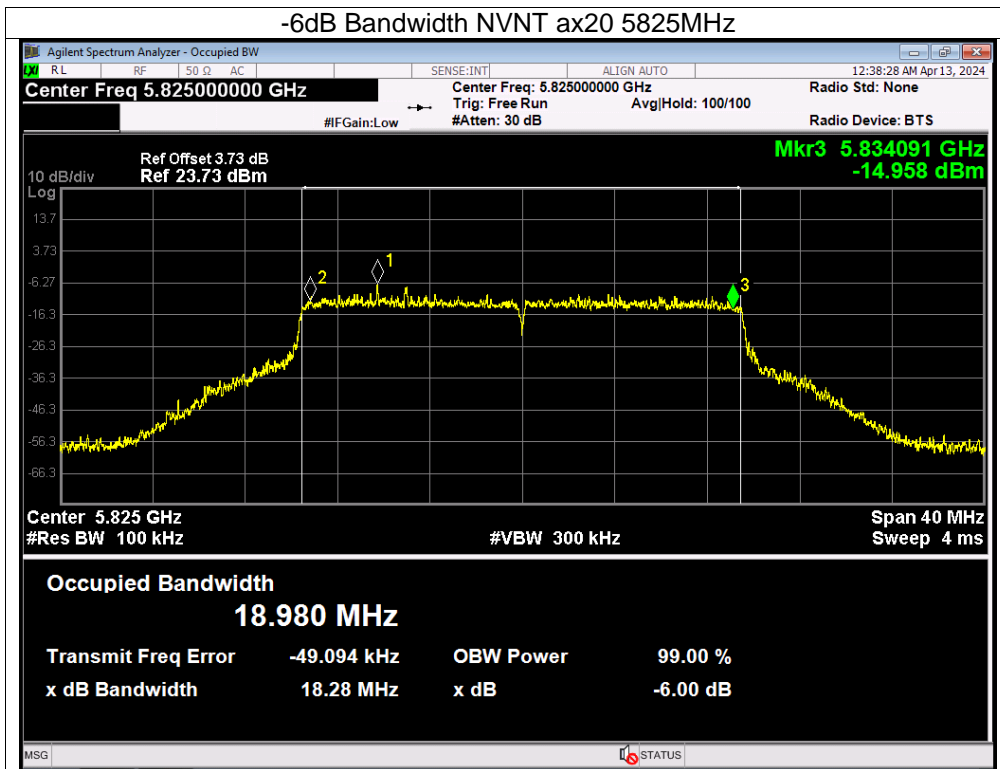




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