

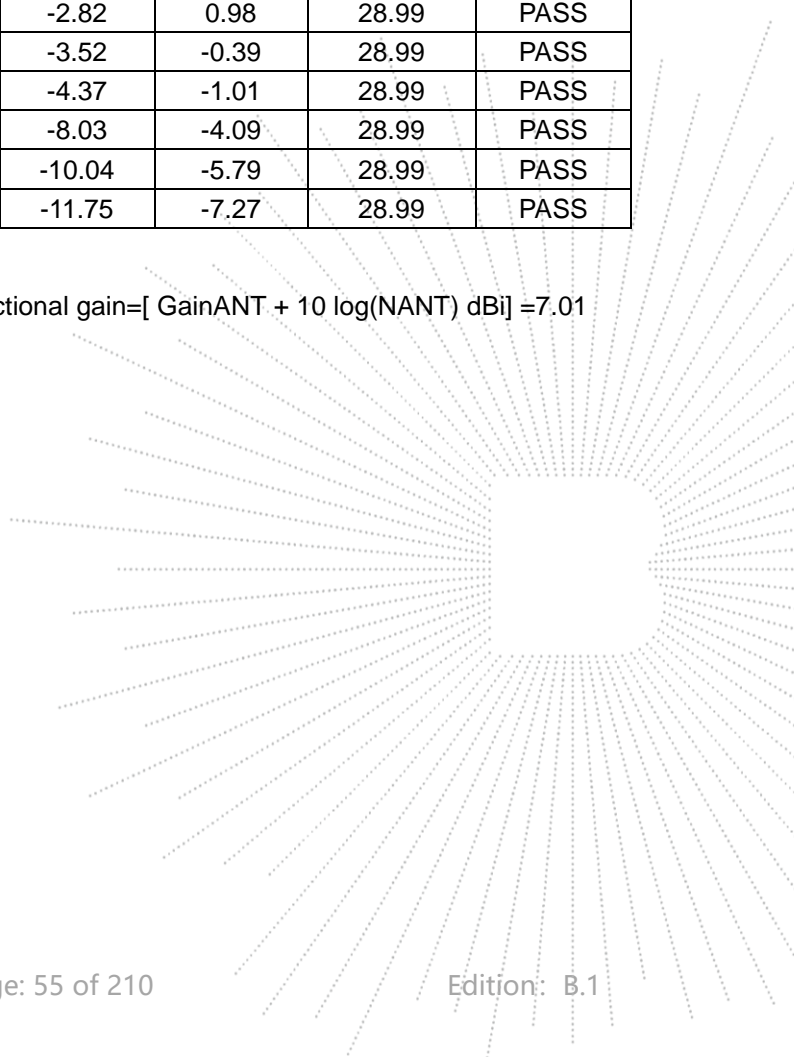
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.3V
Test Mode:	TX Frequency U-NII-3 (5745-5825MHz)		

Condition	Mode	Frequency (MHz)	Measured Power Density (dBm/MHz)			Limit (dBm/MHz)	Result
			ANT A	ANT B	Total		
NVNT	a	5745	0.43	-0.11	/	30	PASS
NVNT	a	5785	-0.84	-0.41	/	30	PASS
NVNT	a	5825	-2.05	-1.17	/	30	PASS
NVNT	n20	5745	-2.07	-3.19	0.42	28.99	PASS
NVNT	n20	5785	-3.14	-3.06	-0.09	28.99	PASS
NVNT	n20	5825	-4.32	-3.78	-1.03	28.99	PASS
NVNT	n40	5755	-5.98	-8.12	-3.91	28.99	PASS
NVNT	n40	5795	-7.47	-9.07	-5.19	28.99	PASS
NVNT	ac20	5745	-1.62	-2.45	1.00	28.99	PASS
NVNT	ac20	5785	-2.97	-2.86	0.10	28.99	PASS
NVNT	ac20	5825	-4.06	-3.48	-0.75	28.99	PASS
NVNT	ac40	5755	-5.58	-8.04	-3.63	28.99	PASS
NVNT	ac40	5795	-7.56	-8.67	-5.07	28.99	PASS
NVNT	ac80	5775	-9.63	-12.5	-7.82	28.99	PASS
NVNT	ax20	5745	-1.36	-2.82	0.98	28.99	PASS
NVNT	ax20	5785	-3.29	-3.52	-0.39	28.99	PASS
NVNT	ax20	5825	-3.69	-4.37	-1.01	28.99	PASS
NVNT	ax40	5755	-6.34	-8.03	-4.09	28.99	PASS
NVNT	ax40	5795	-7.84	-10.04	-5.79	28.99	PASS
NVNT	ax80	5775	-9.19	-11.75	-7.27	28.99	PASS

Note:

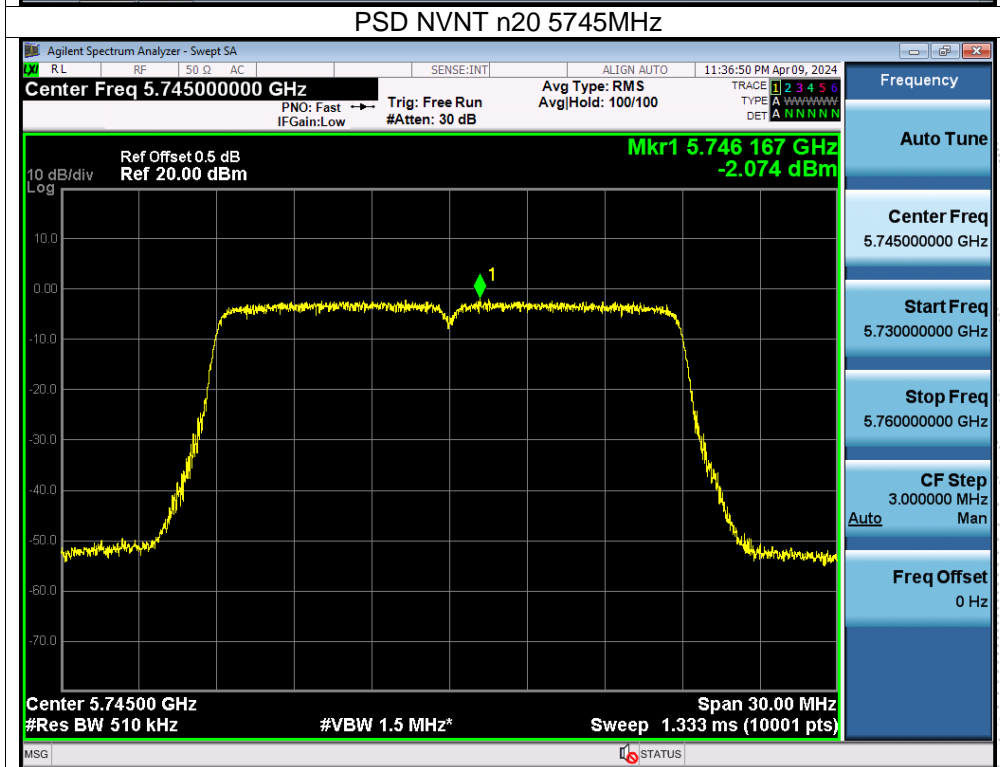
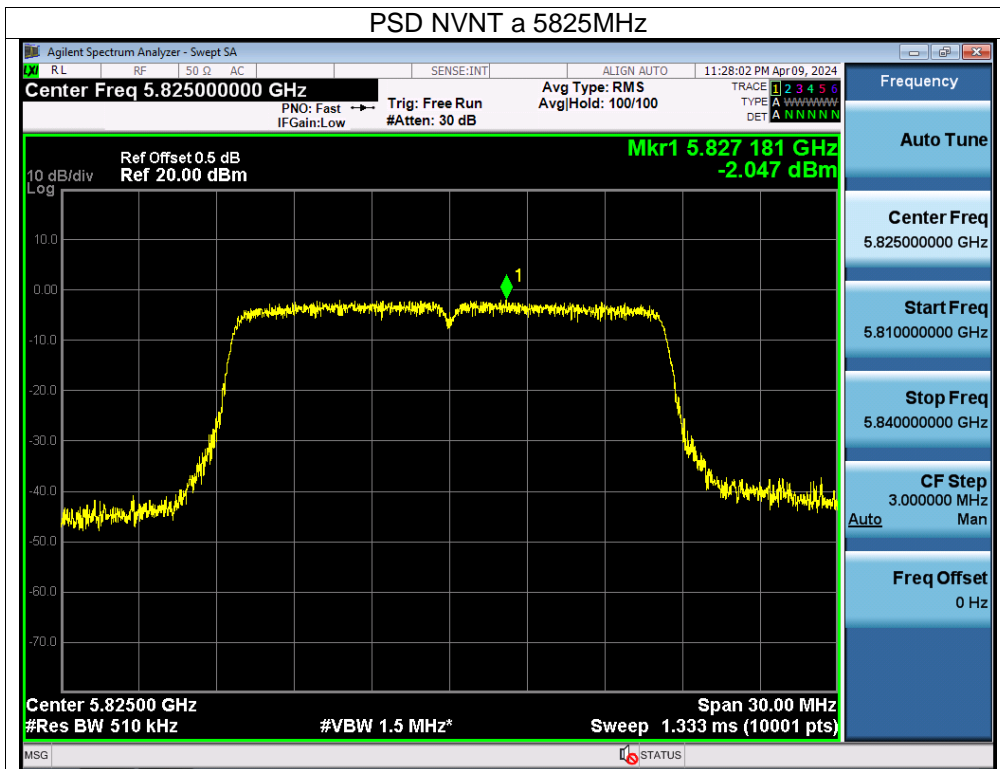
Antenna A gain:2.93 dBi, Antenna B gain: 4 dBi, Directional gain=[GainANT + 10 log(NANT) dBi] =7.01 dBi>6dBi

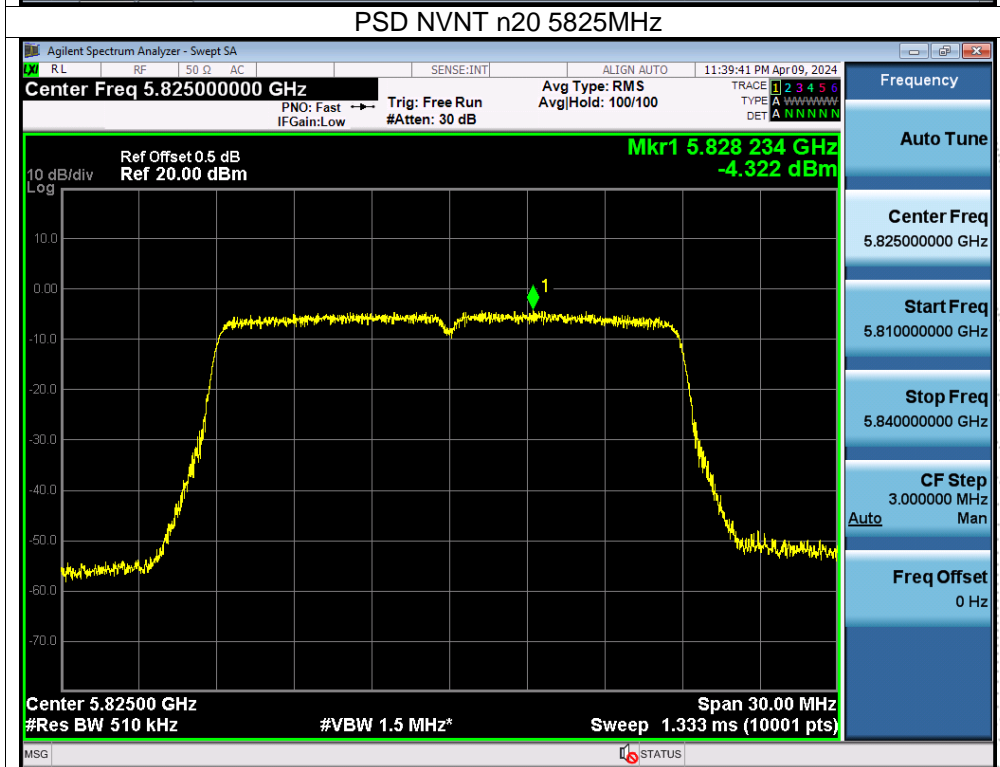
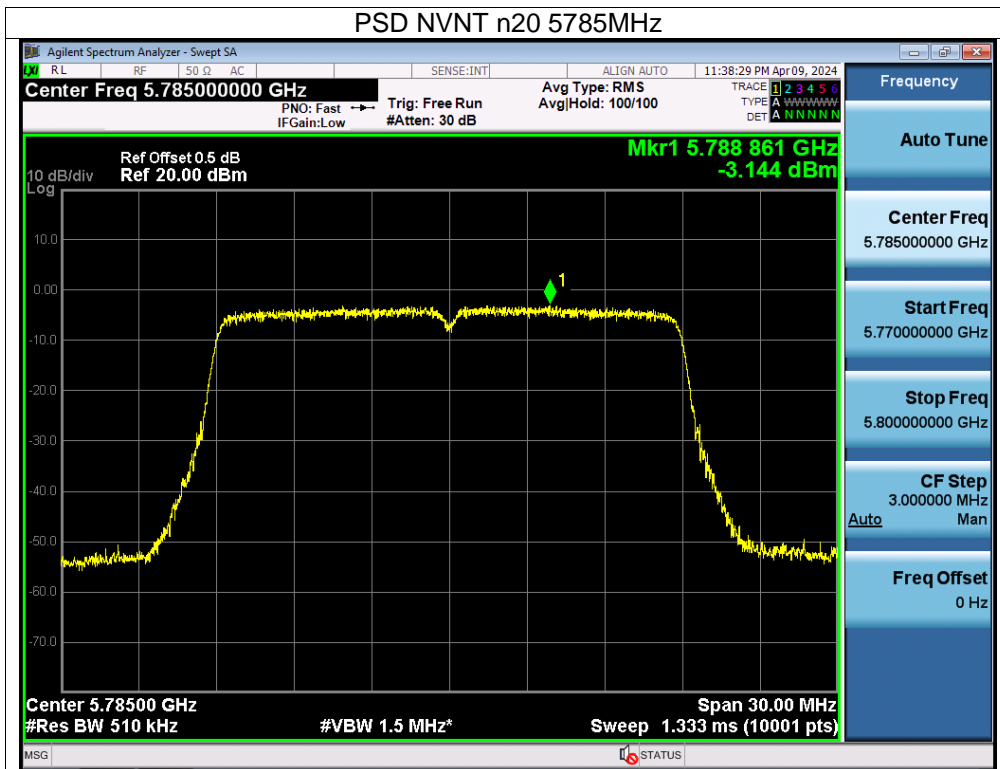
Limit=30-(7.01-6)=28.99 dBi

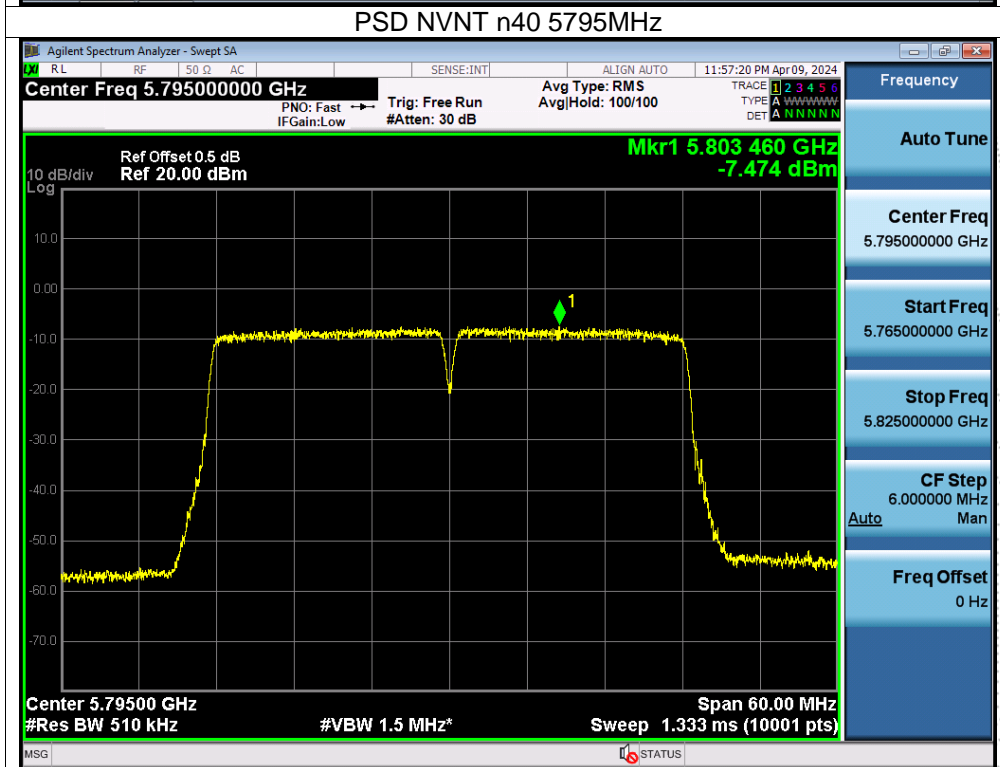
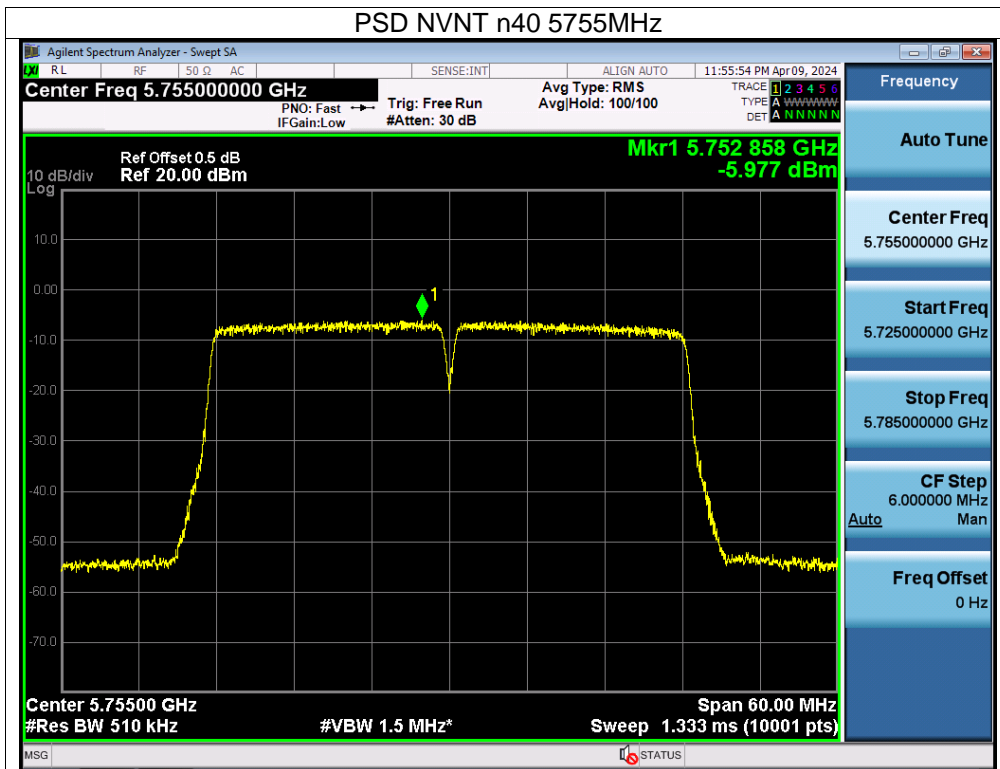


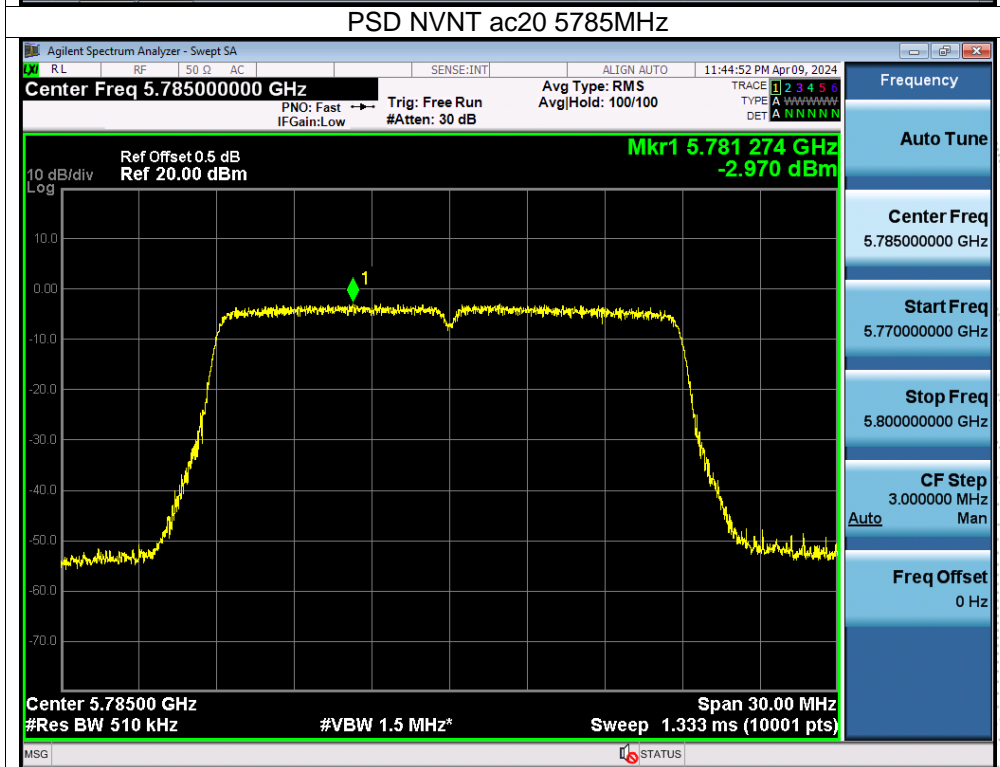
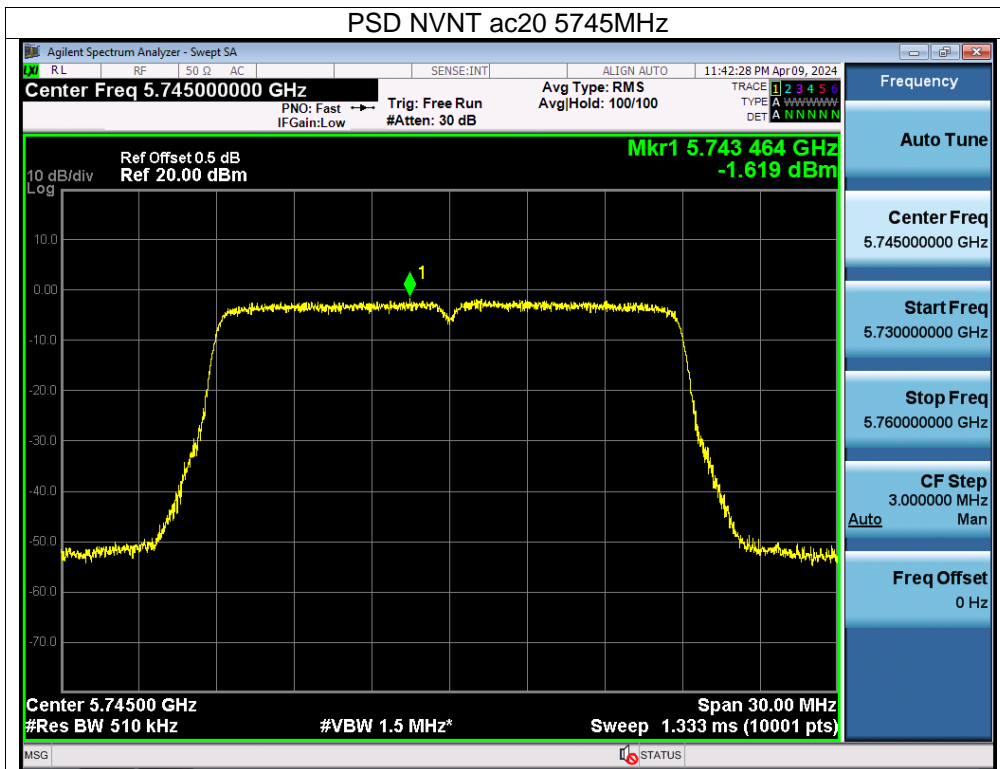
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

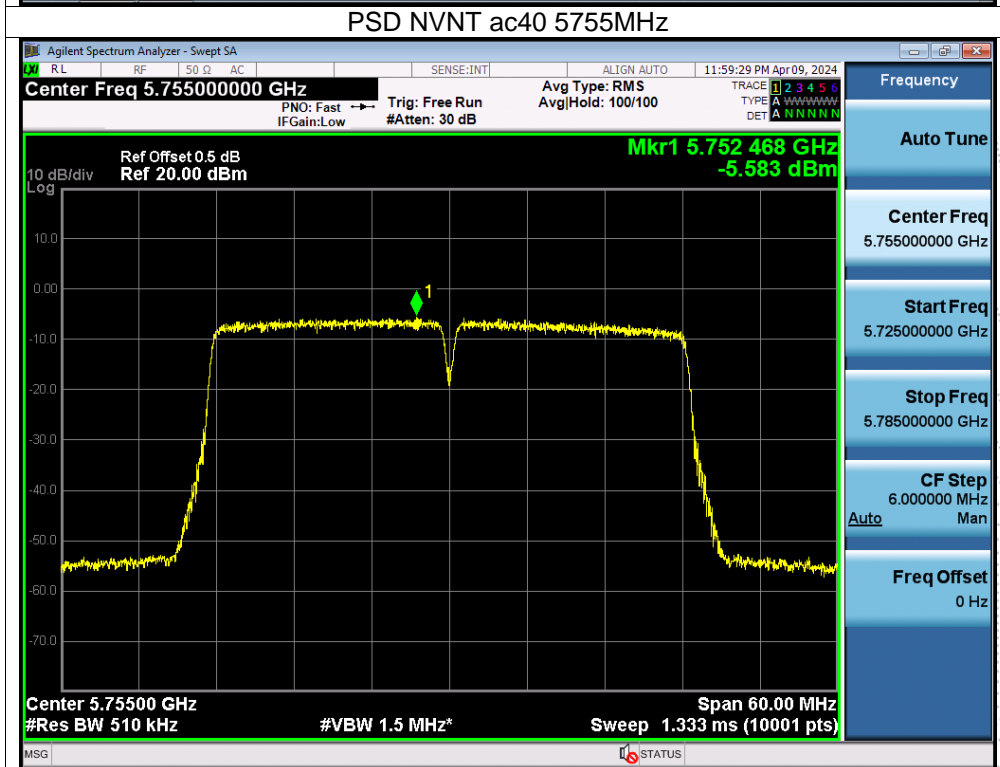
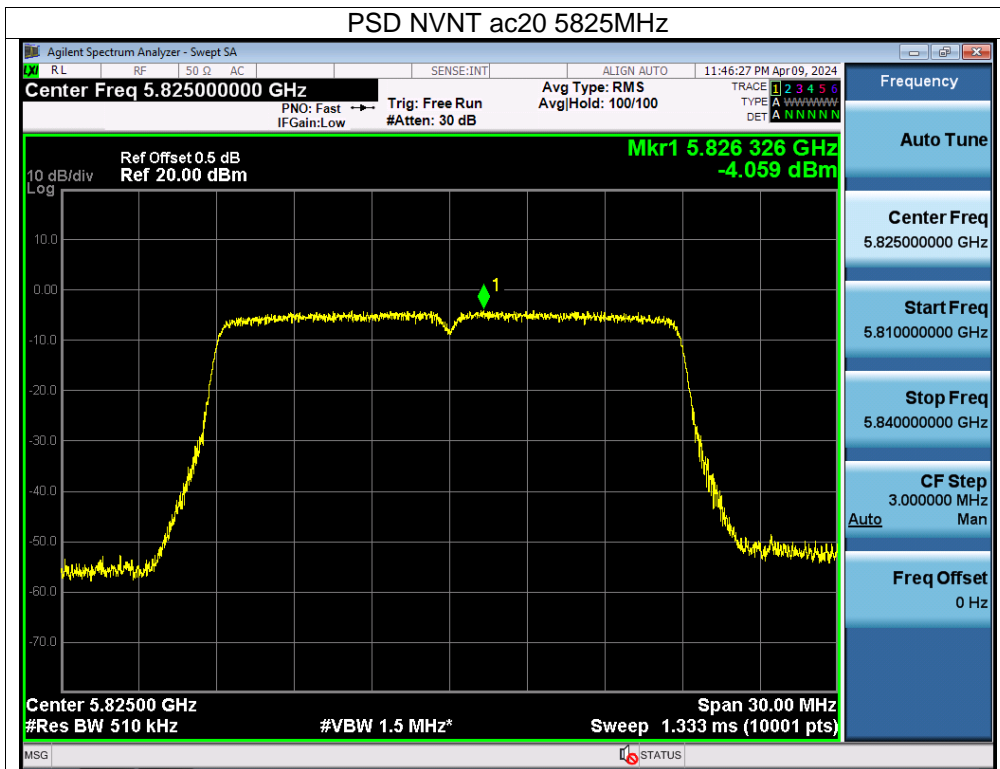


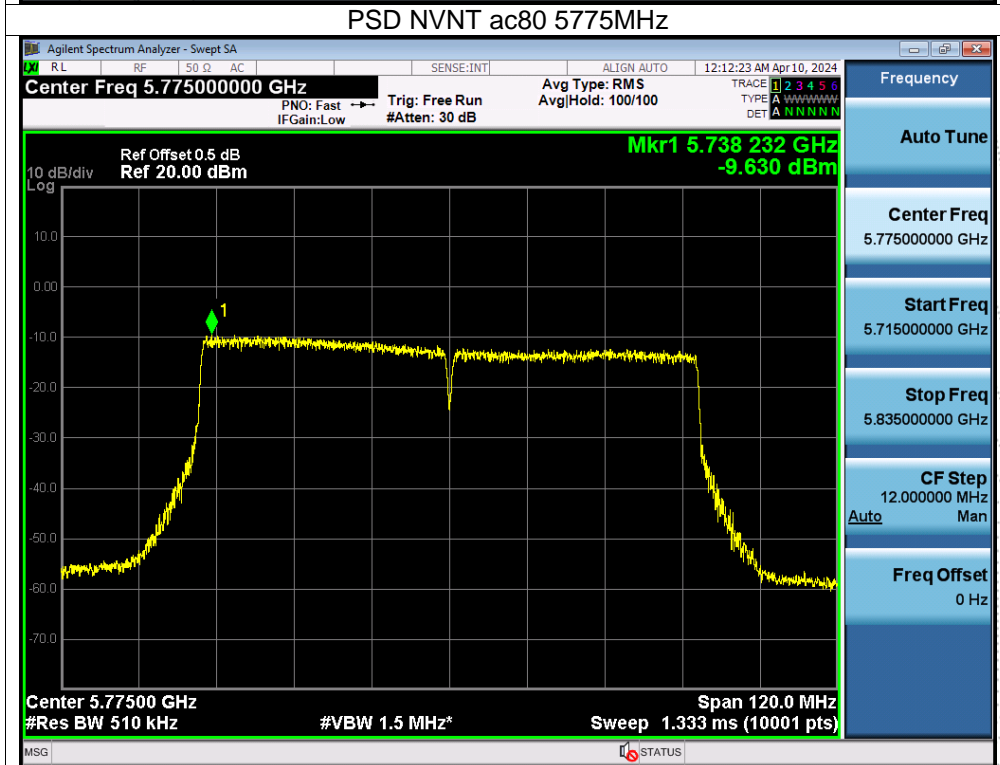
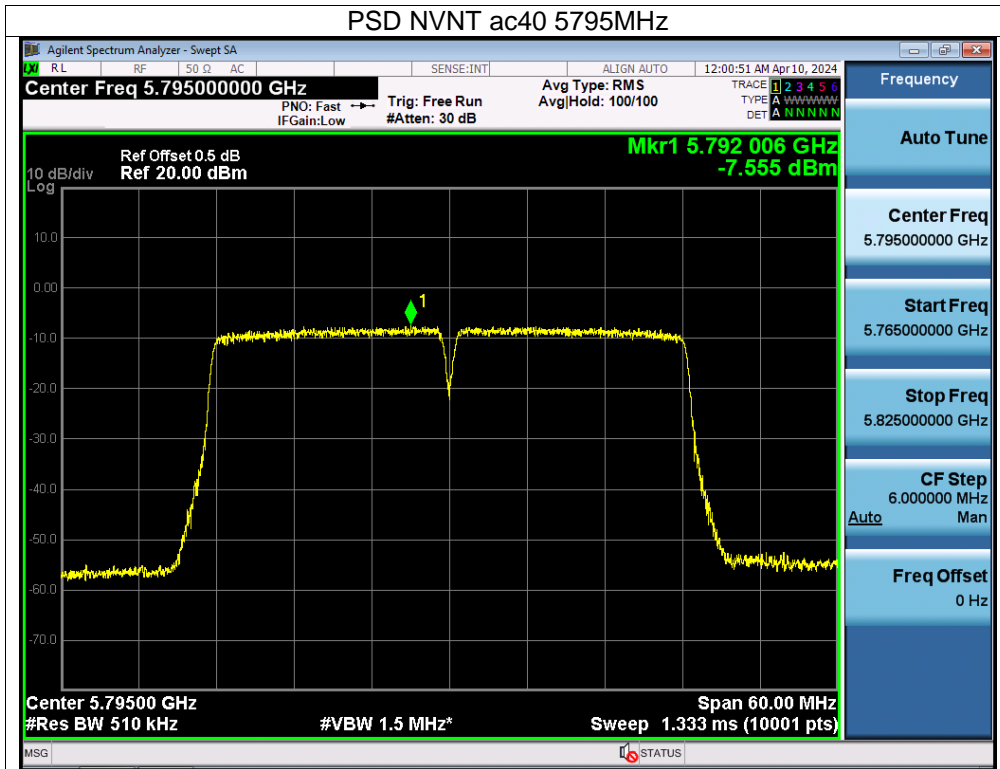


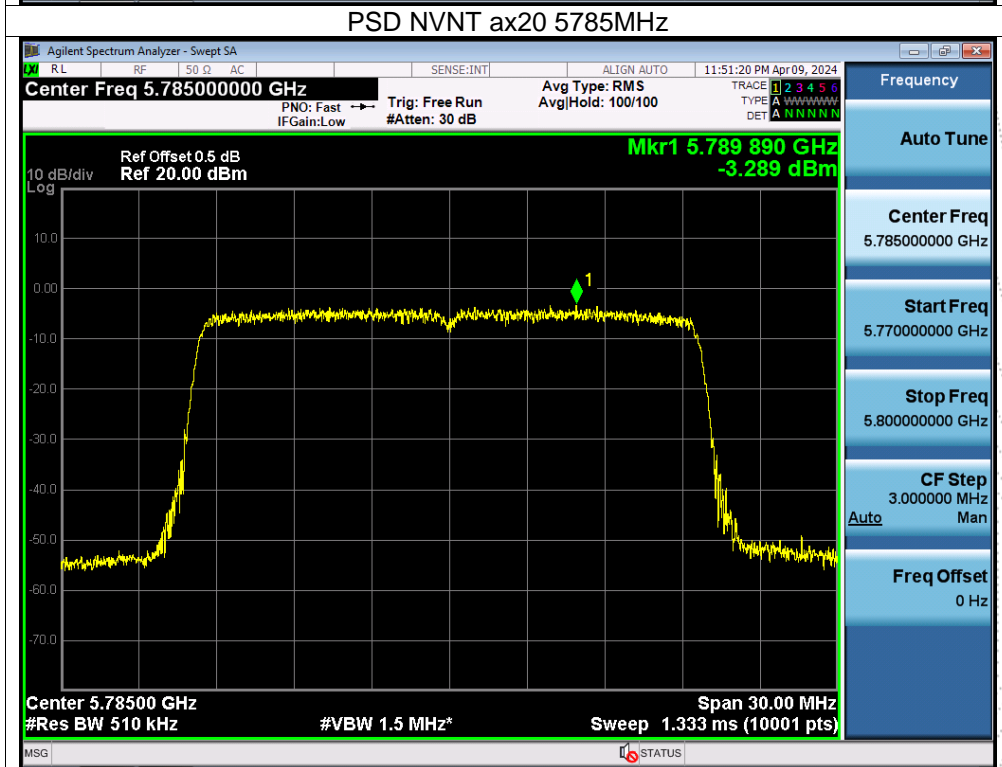
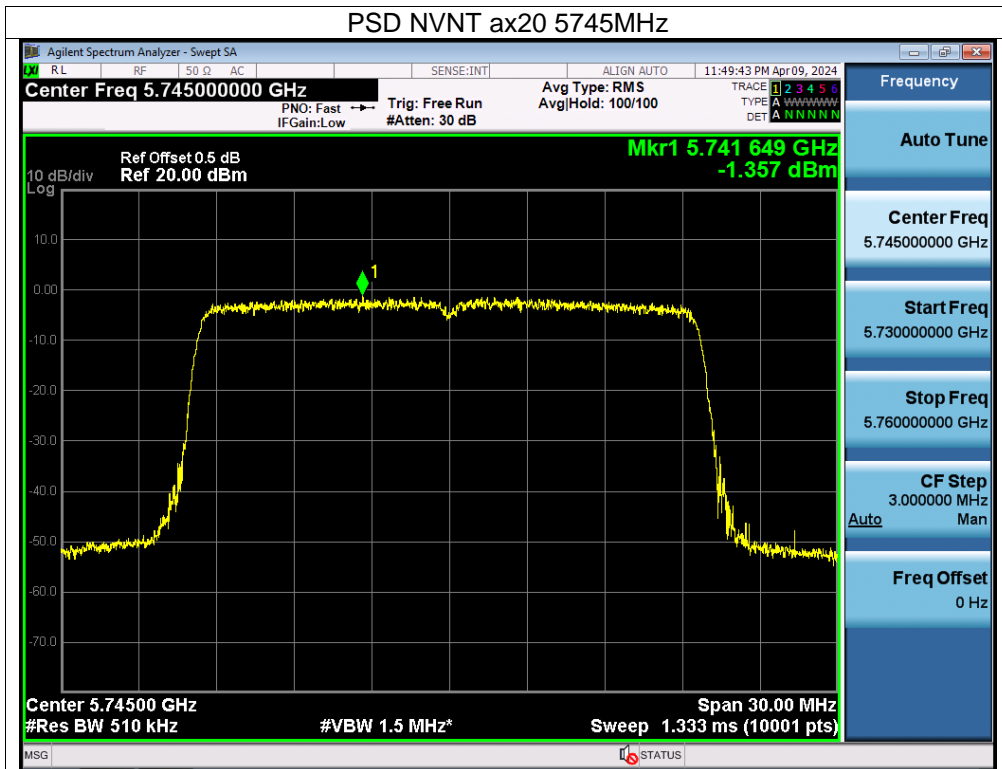


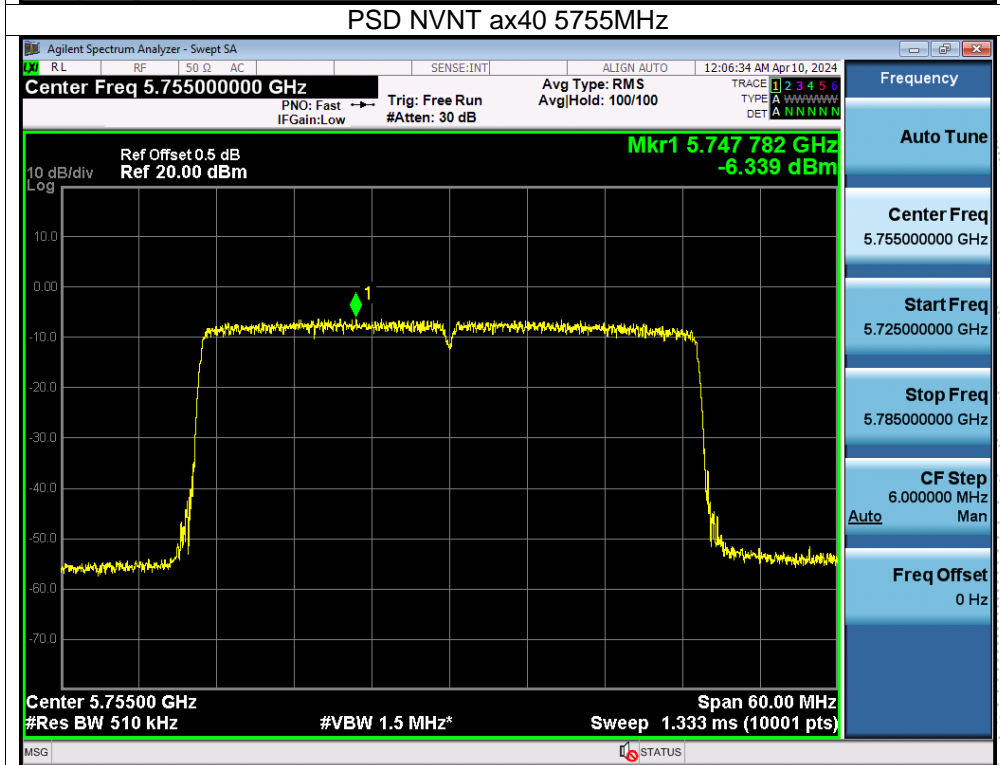
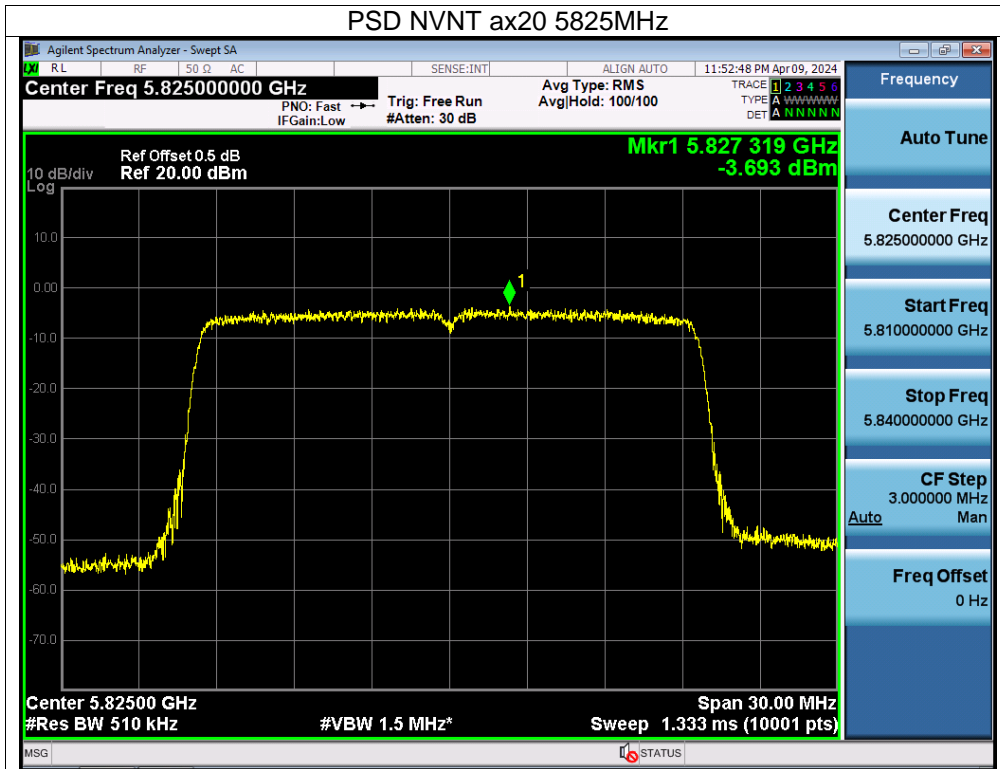


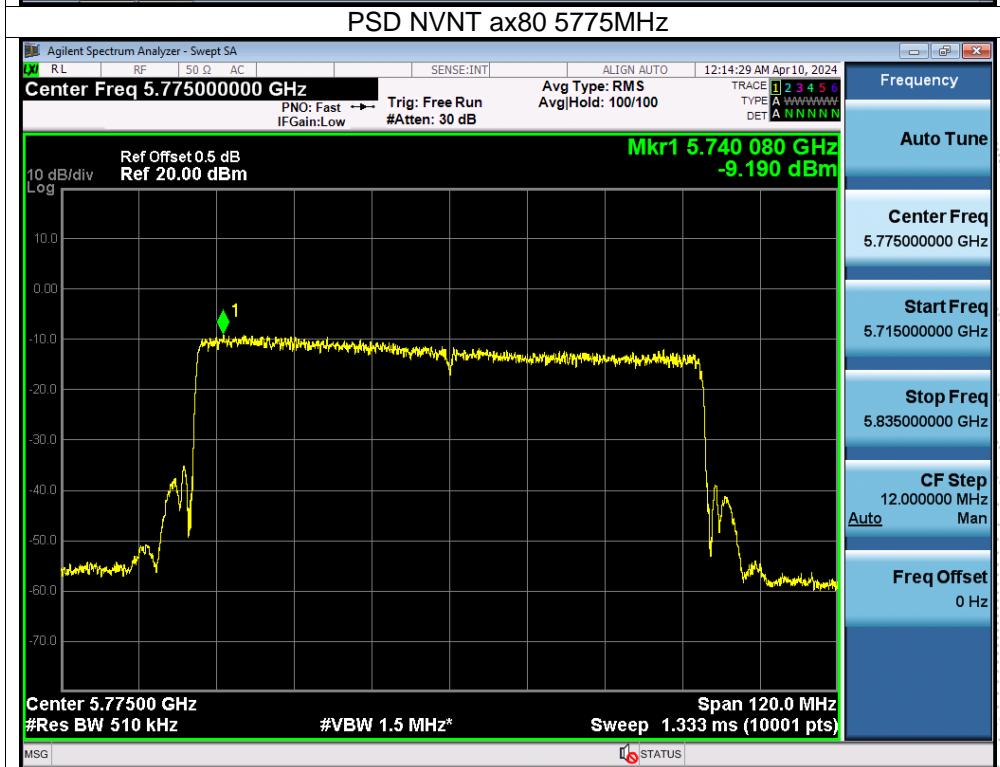
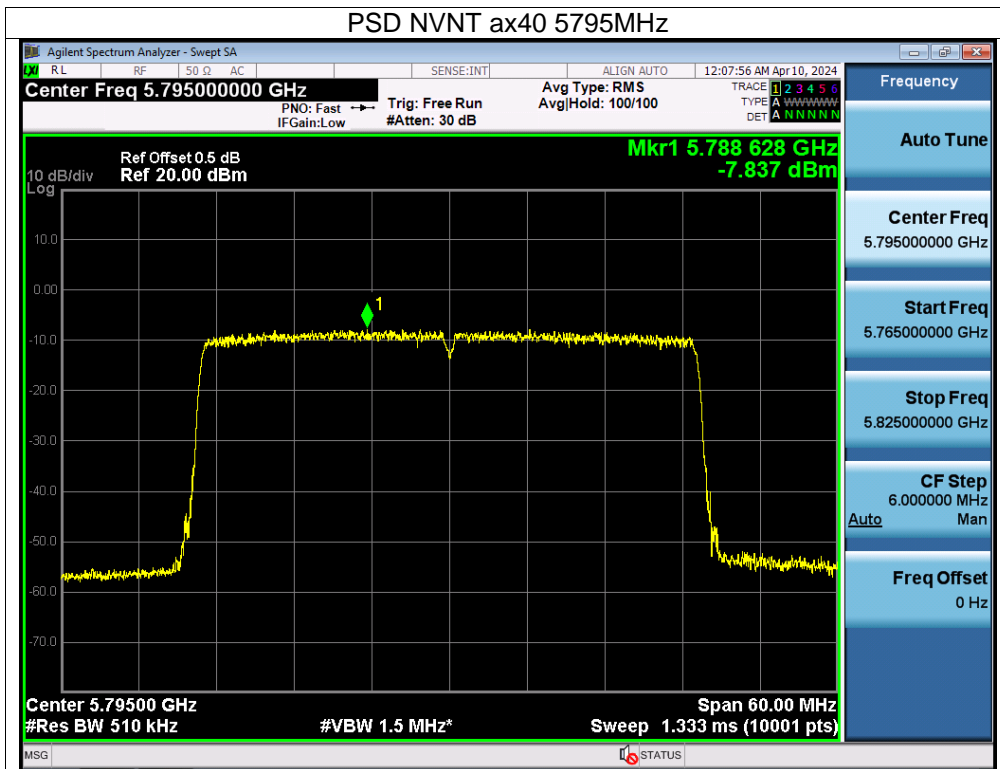






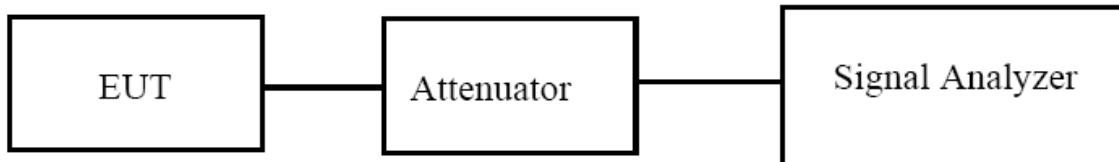






9. 26dB & 6dB & 99% Emission Bandwidth

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

- 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 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:

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.

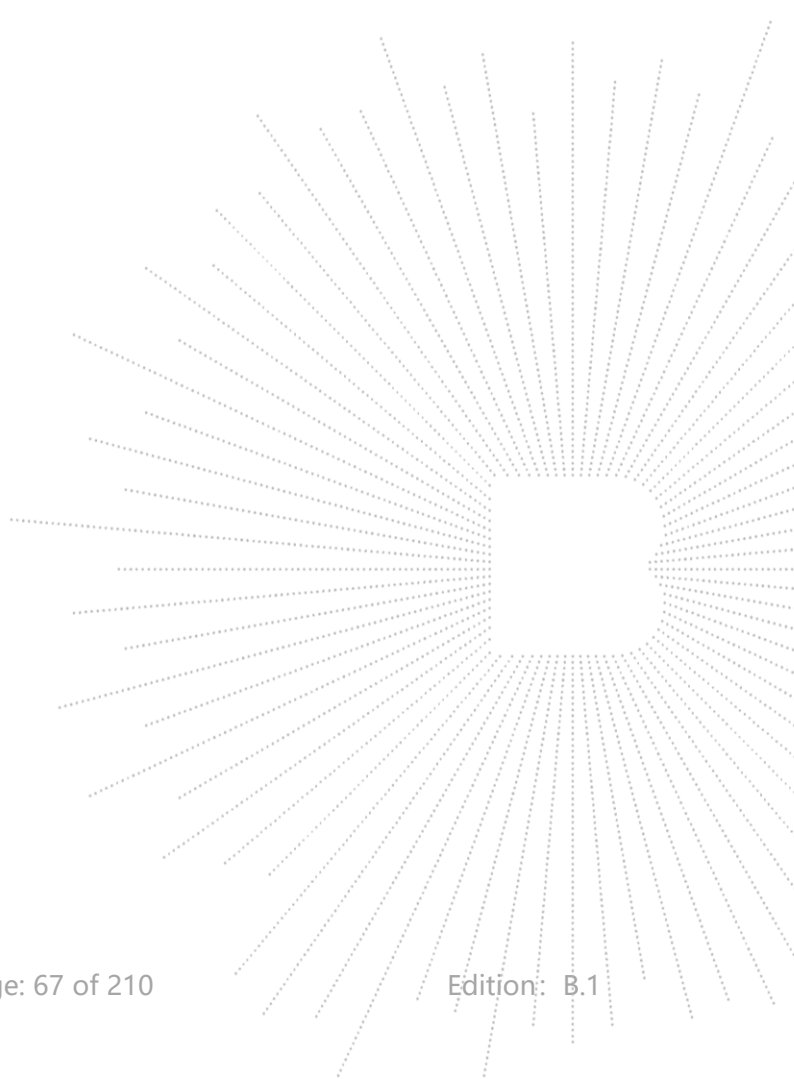
6dB

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. 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.

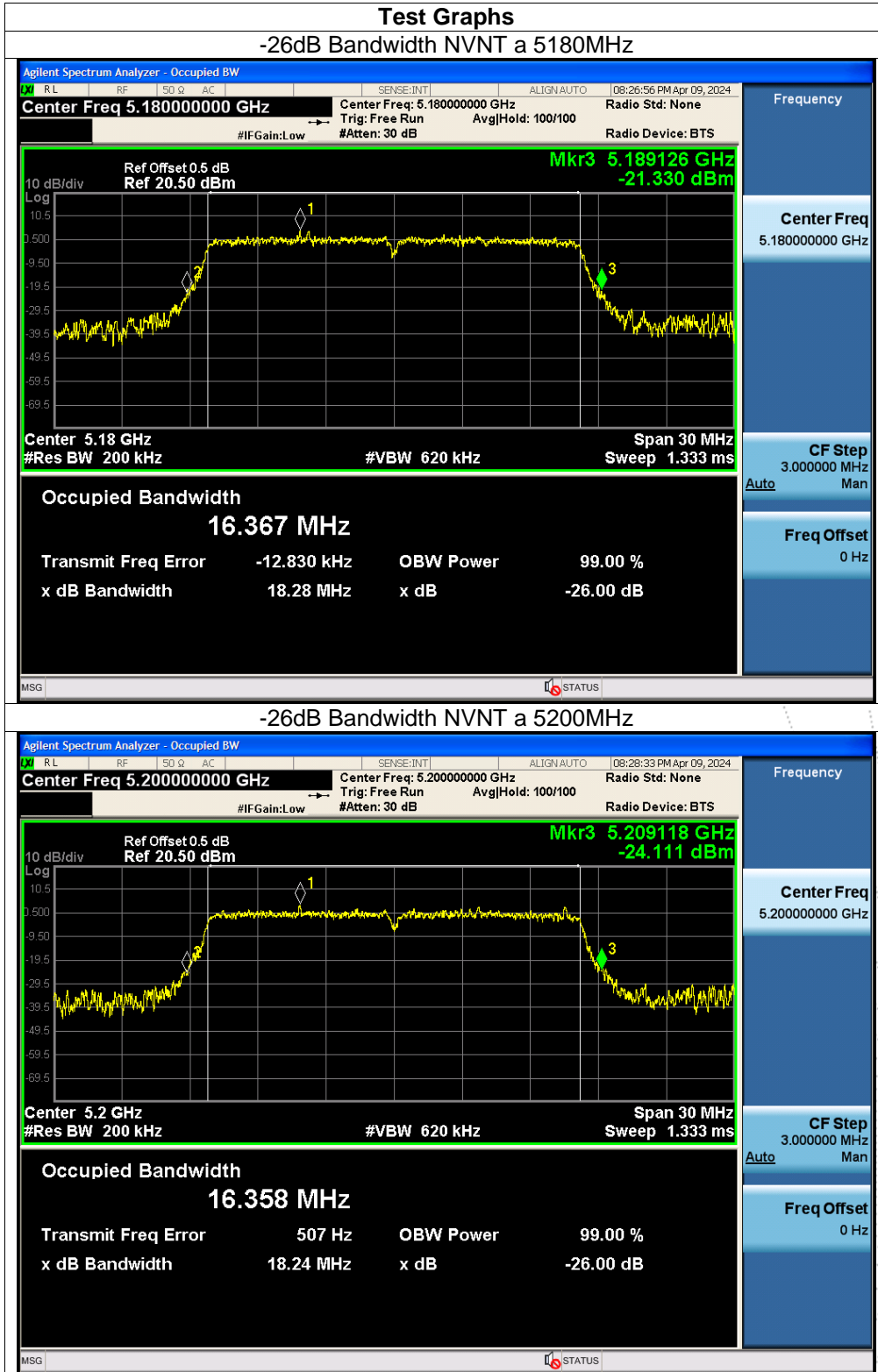


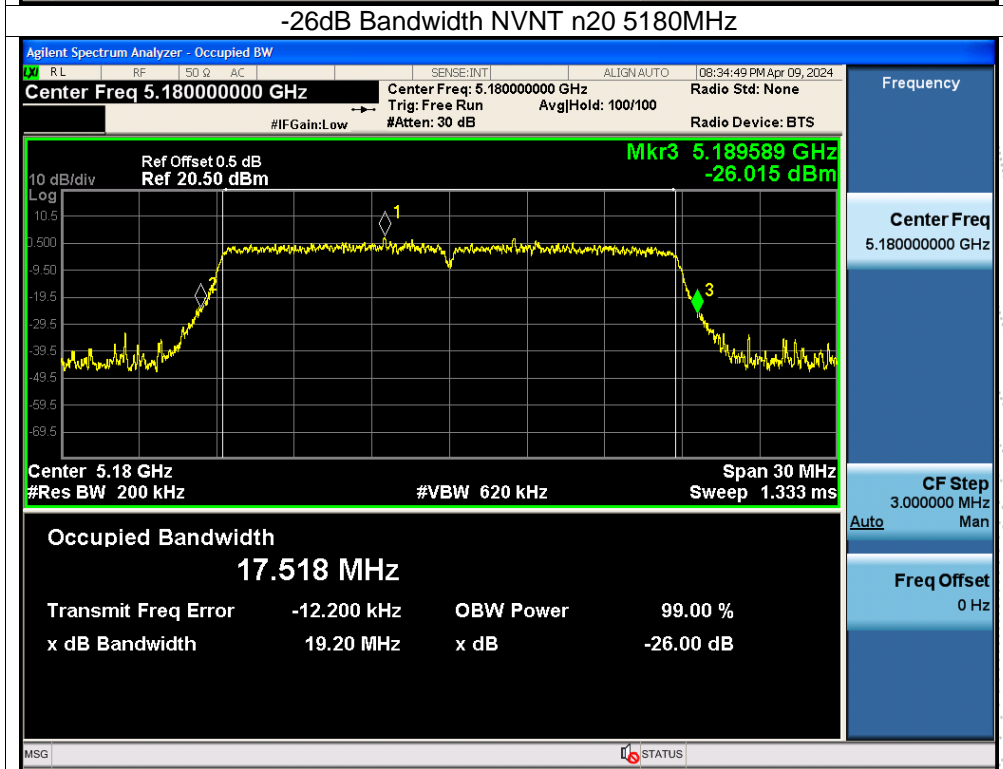
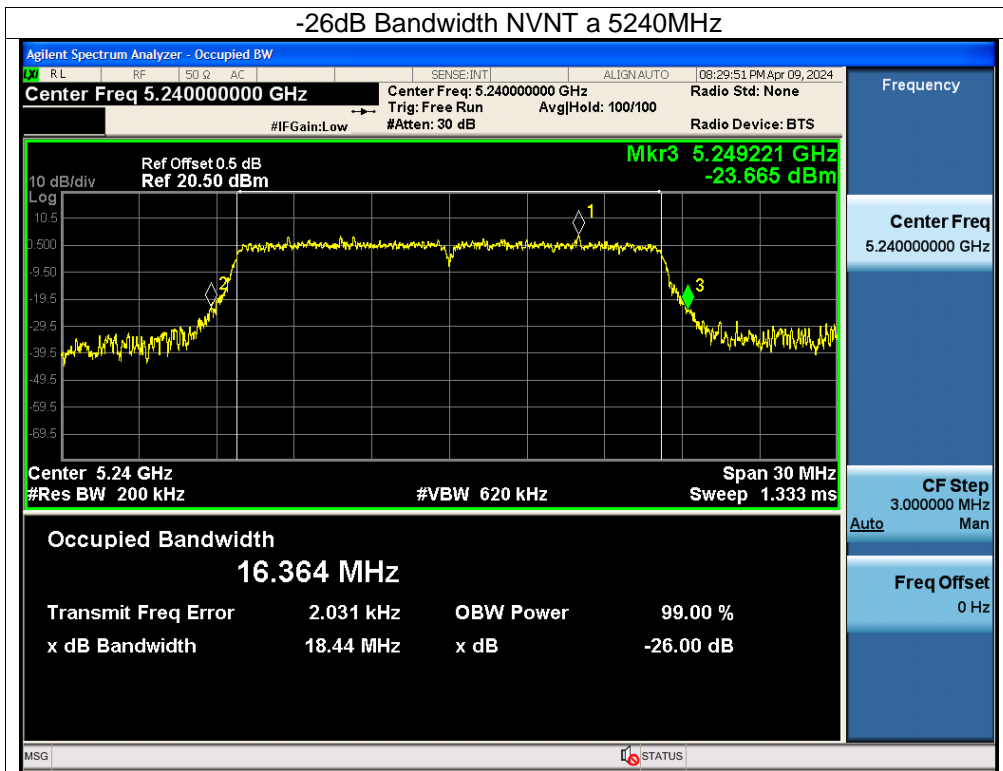
9.5 Test Result

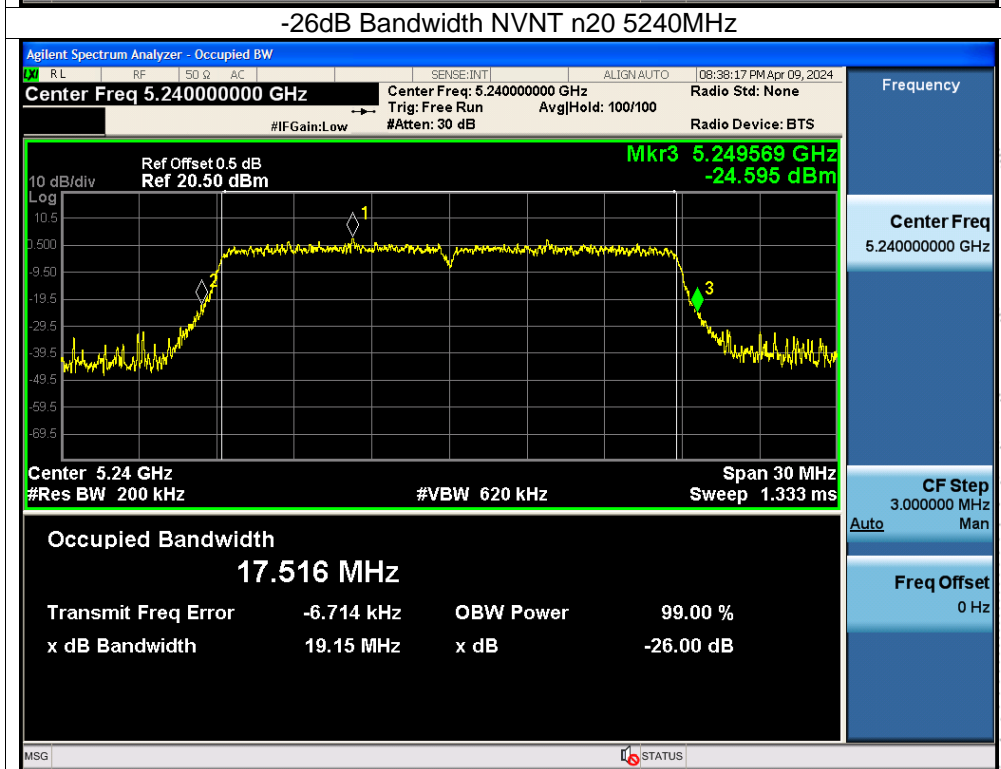
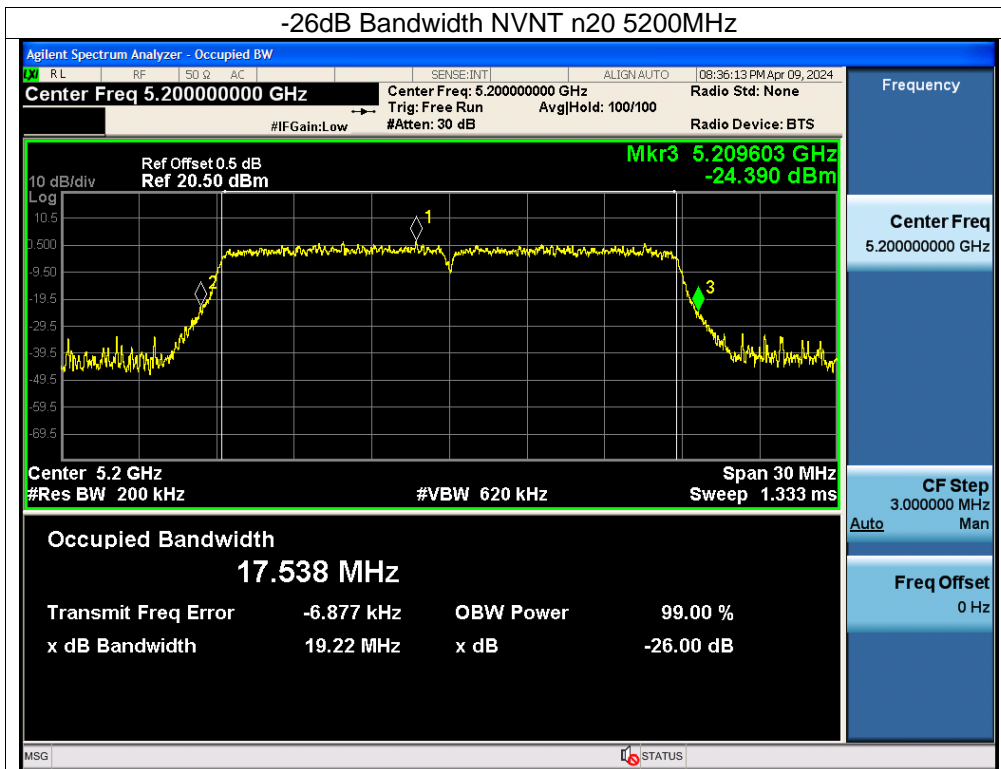
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.3V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

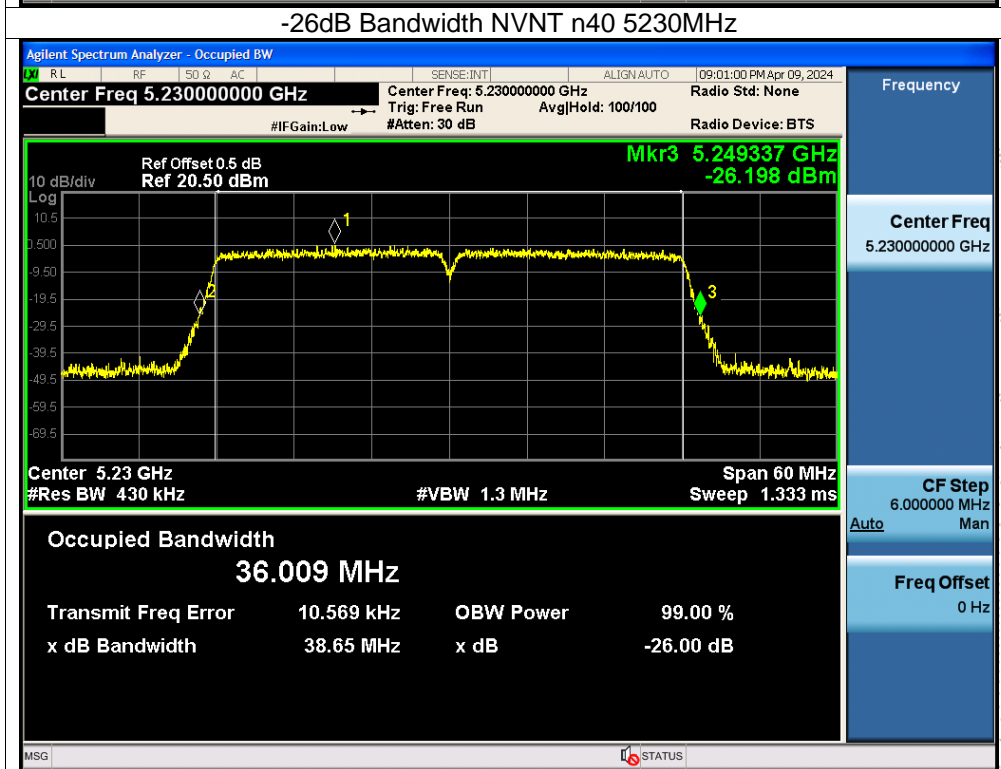
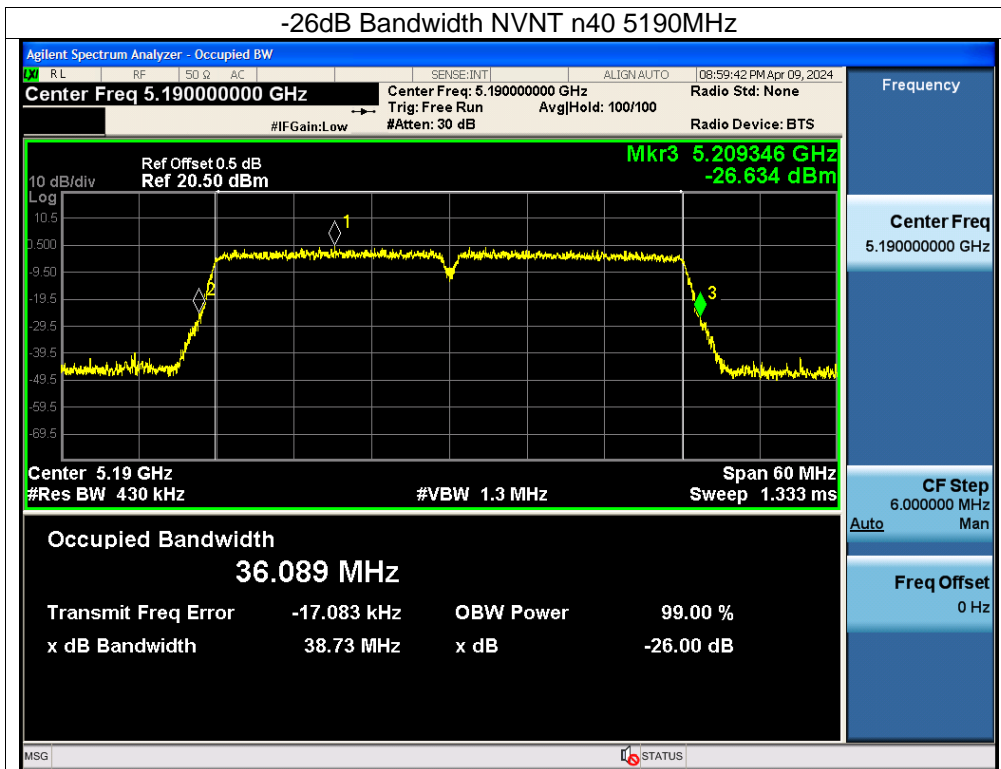
Mode	Channel	Frequency (MHz)	26dB bandwidth (MHz)		99% OBW (MHz)		Result
			ANT A	ANT B	ANT A	ANT B	
NVNT	a	5180	18.277	18.287	16.342	16.366	Pass
NVNT	a	5200	18.235	18.477	16.365	16.341	Pass
NVNT	a	5240	18.437	18.111	16.353	16.339	Pass
NVNT	n20	5180	19.202	19.216	17.516	17.526	Pass
NVNT	n20	5200	19.219	19.09	29.681	17.523	Pass
NVNT	n20	5240	19.151	19.009	17.526	17.526	Pass
NVNT	n40	5190	38.727	38.903	36.073	36.047	Pass
NVNT	n40	5230	38.652	38.737	36.038	36.004	Pass
NVNT	ac20	5180	19.229	19.206	17.537	17.531	Pass
NVNT	ac20	5200	19.363	19.227	17.517	17.538	Pass
NVNT	ac20	5240	19.234	19.186	17.522	17.517	Pass
NVNT	ac40	5190	39.1	38.901	36.099	36.019	Pass
NVNT	ac40	5230	38.704	38.813	36.053	36.032	Pass
NVNT	ac80	5210	86.008	85.628	76.004	76.021	Pass
NVNT	ax20	5180	20.073	20.334	18.868	18.887	Pass
NVNT	ax20	5200	20.253	20.171	18.906	18.86	Pass
NVNT	ax20	5240	20.449	20.251	18.883	18.86	Pass
NVNT	ax40	5190	39.724	39.511	37.728	37.777	Pass
NVNT	ax40	5230	39.644	39.632	37.7	37.711	Pass
NVNT	ax80	5210	80.128	80.605	77.235	77.321	Pass

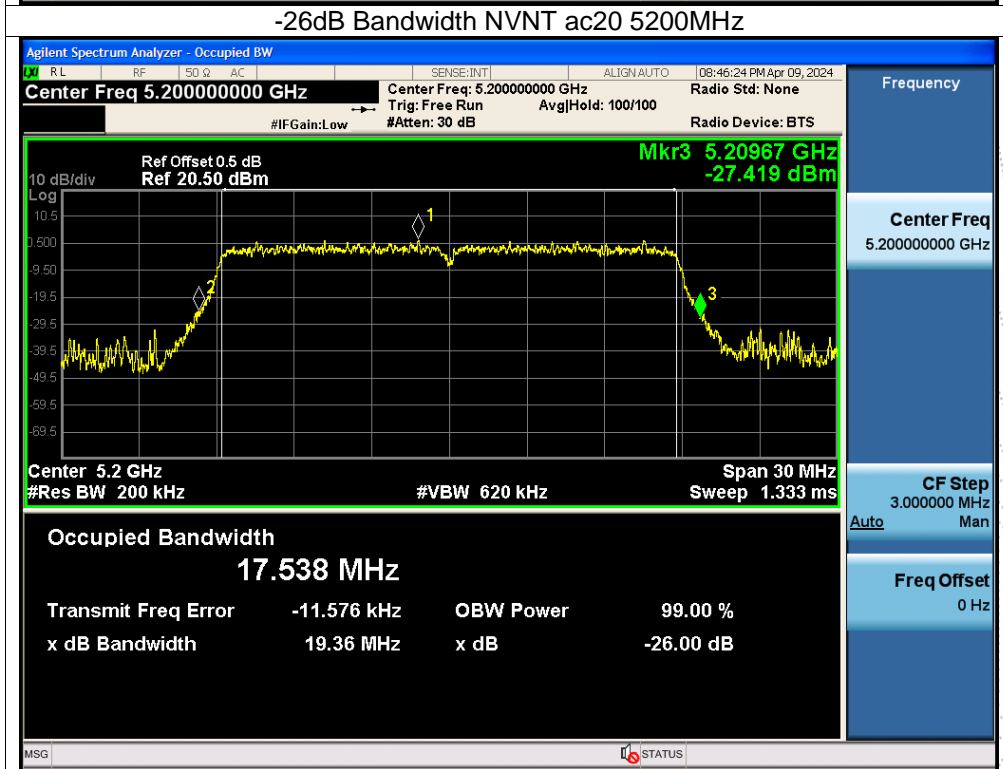
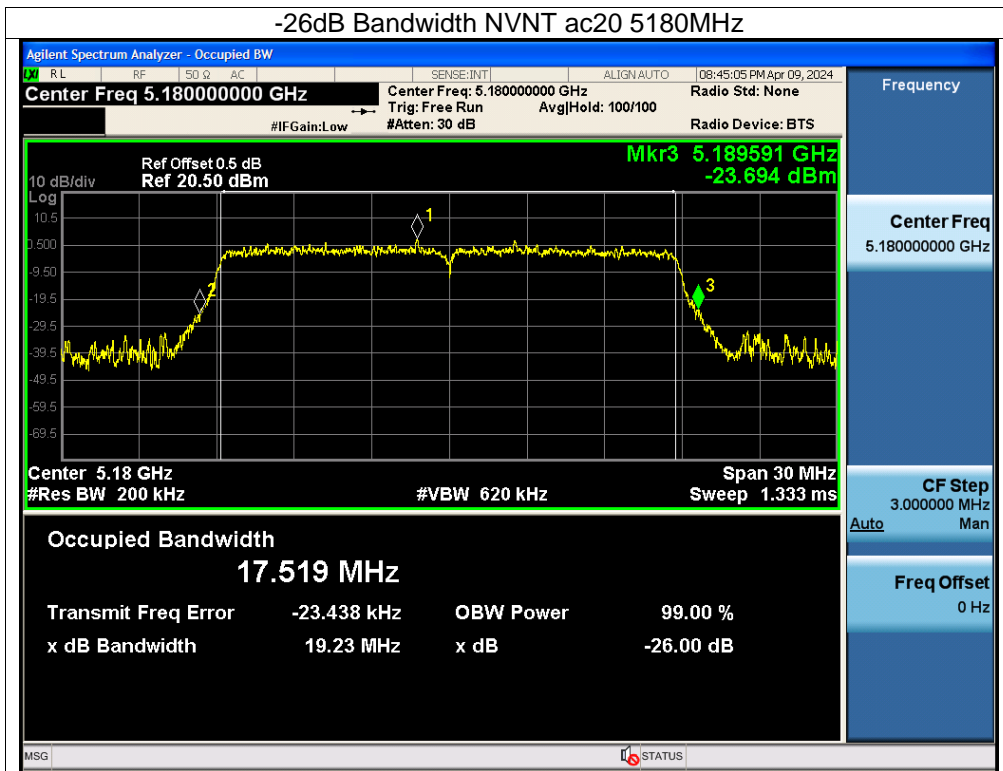
Note: A(B) Represent the value of antenna A and B. The worst data is Antenna A, only shown Antenna A Plot.

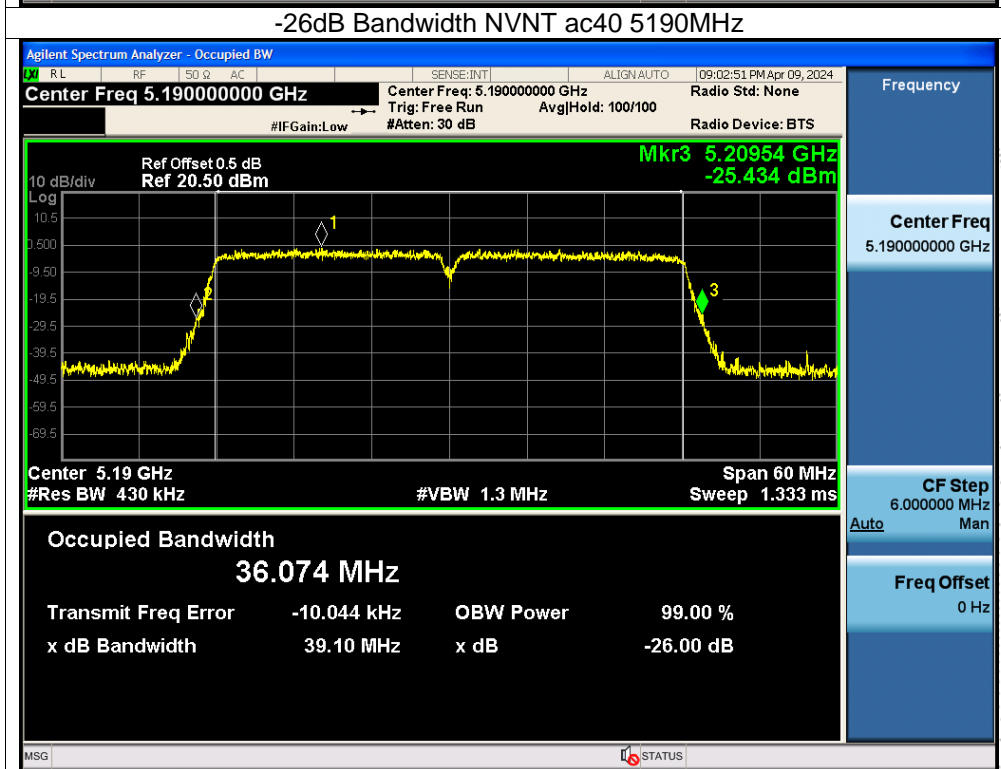
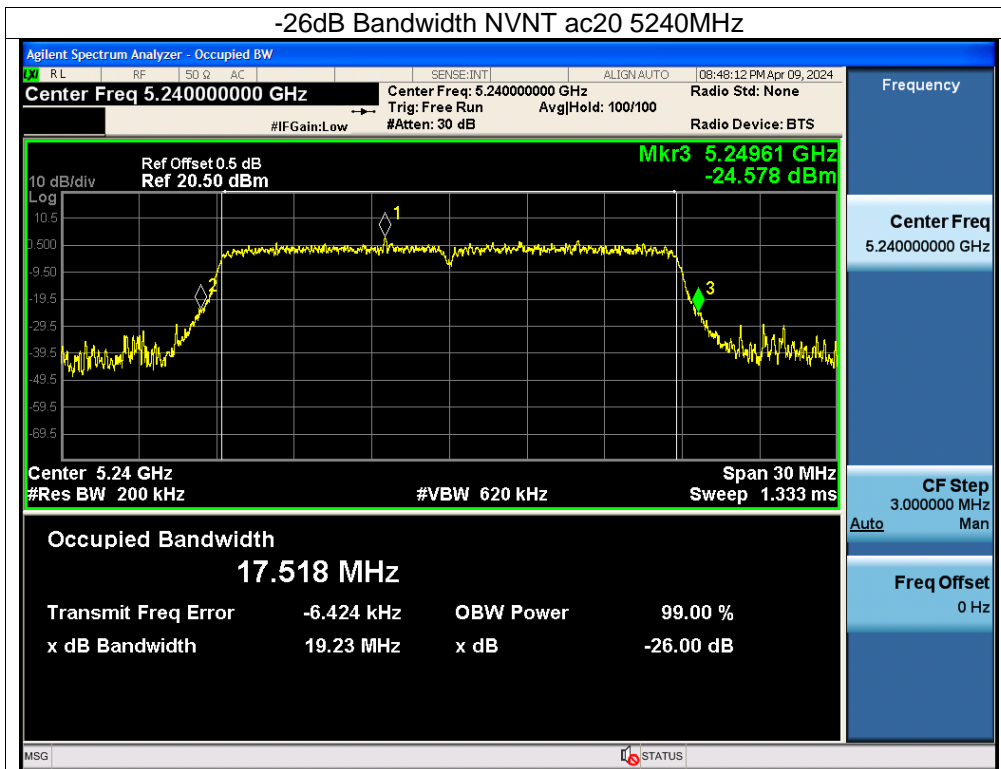


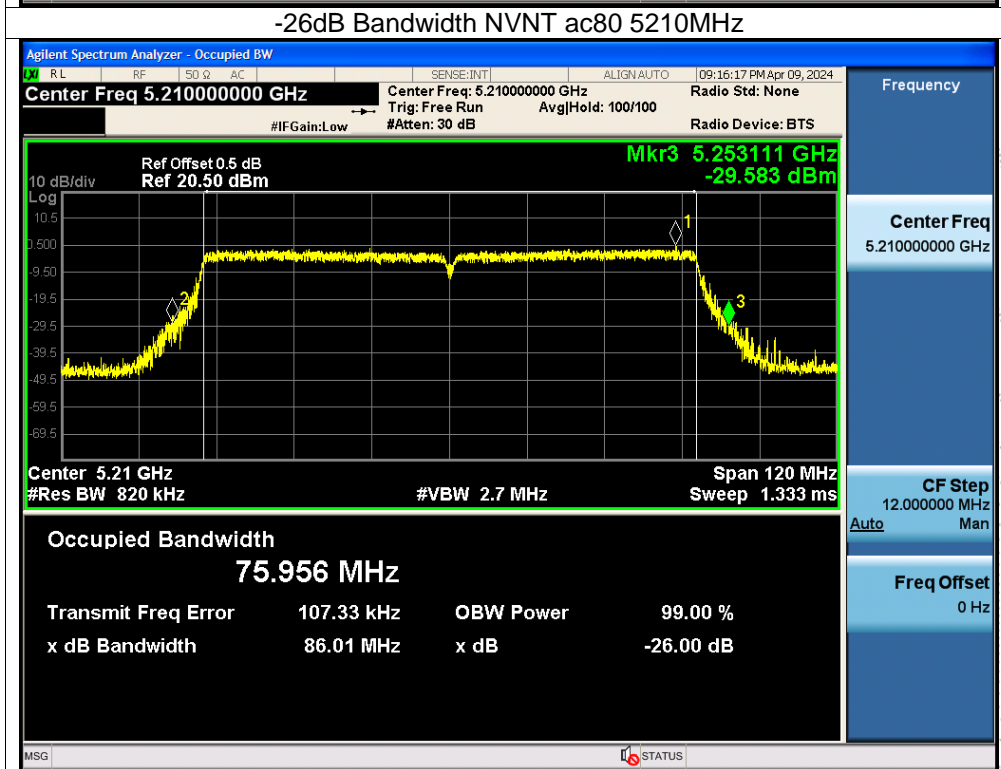
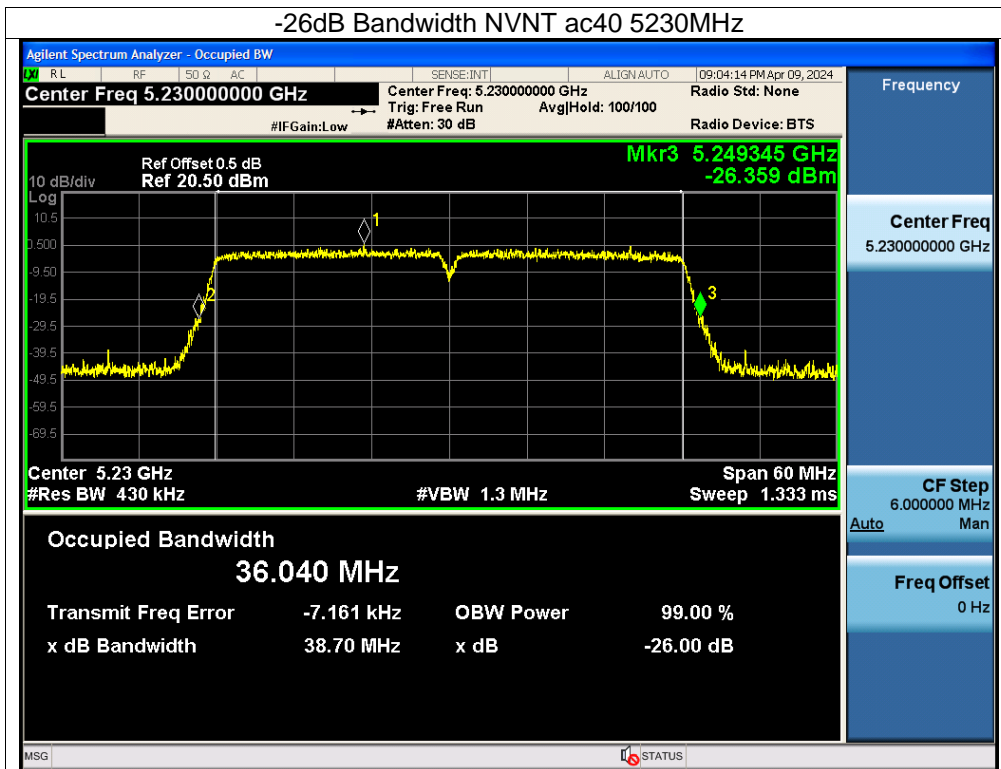


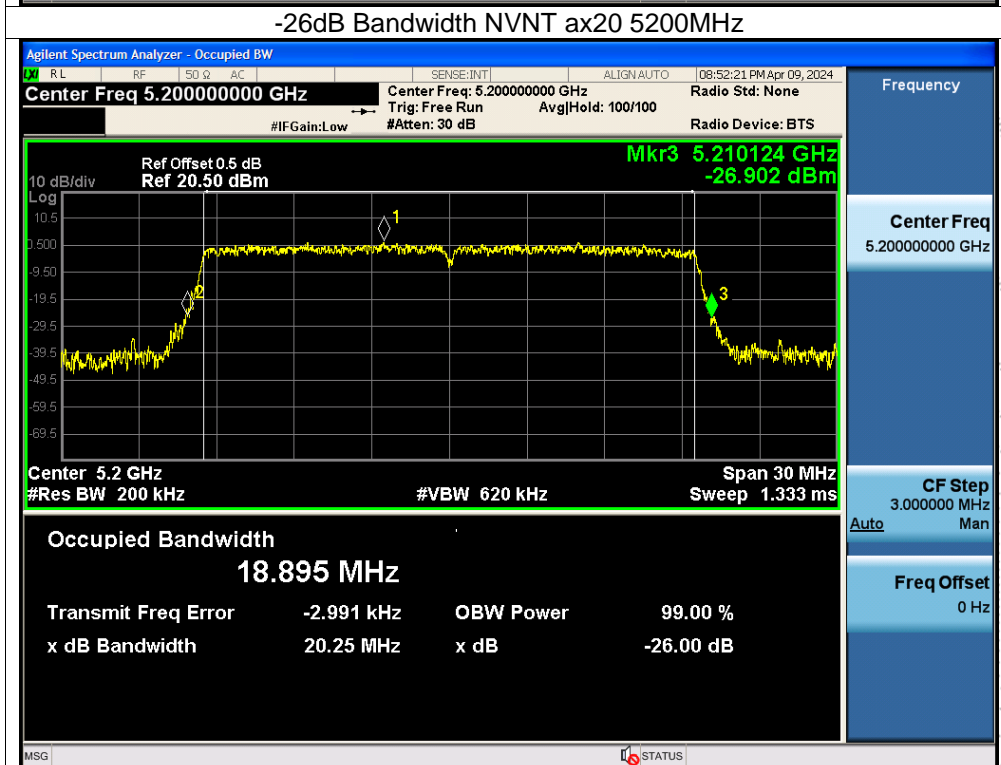
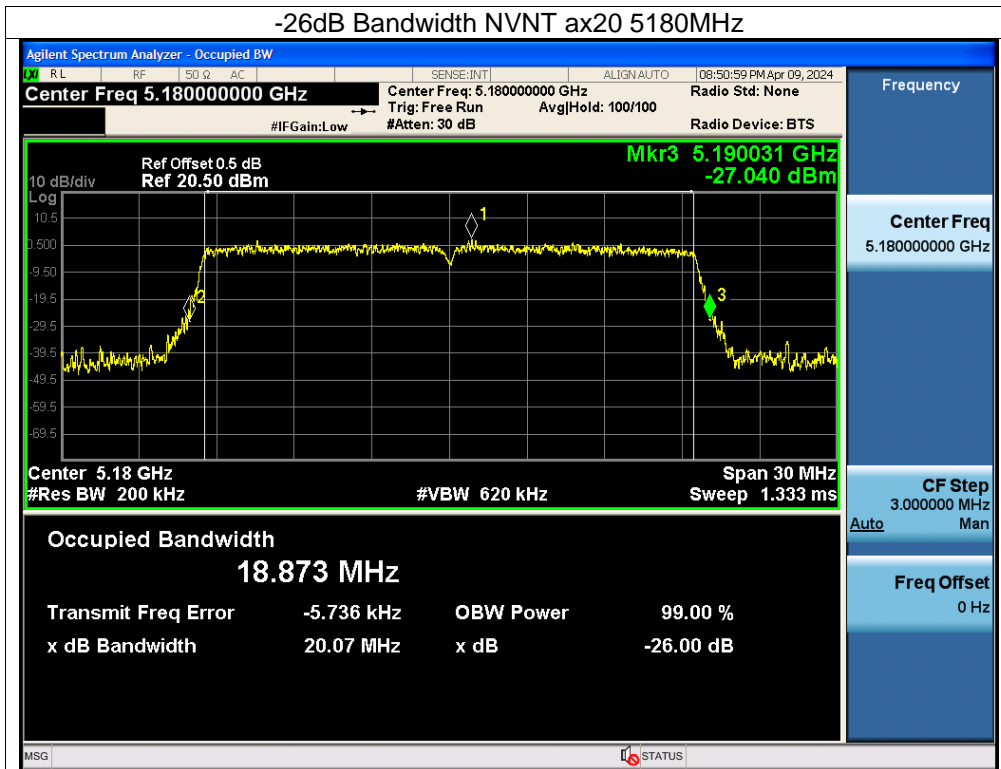


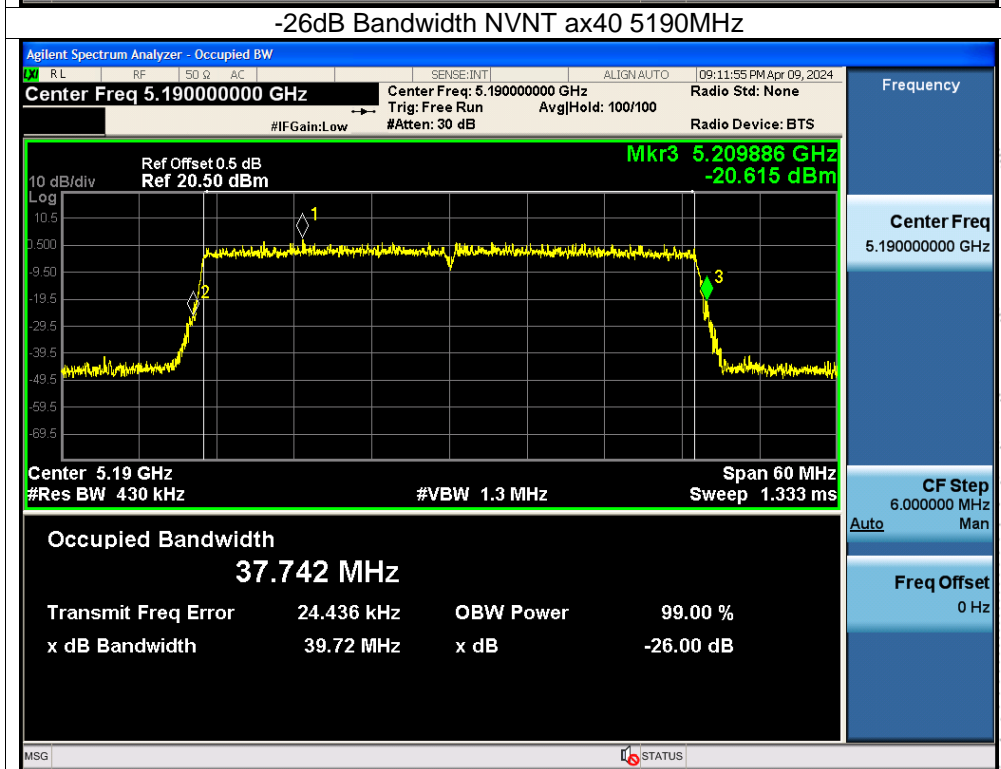
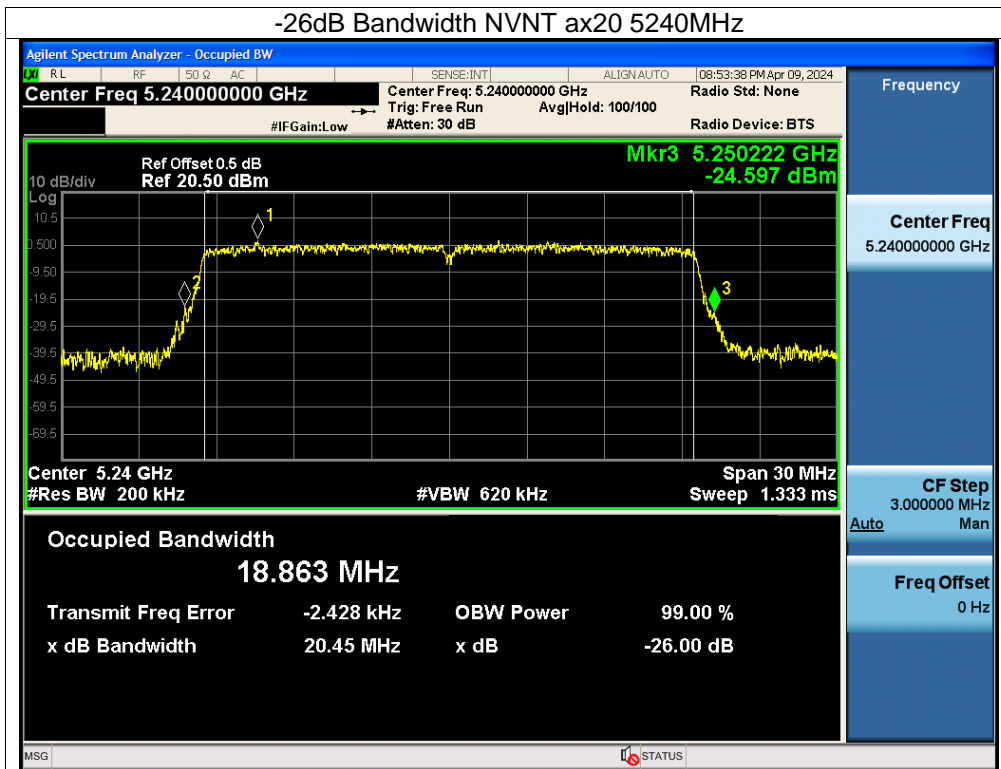


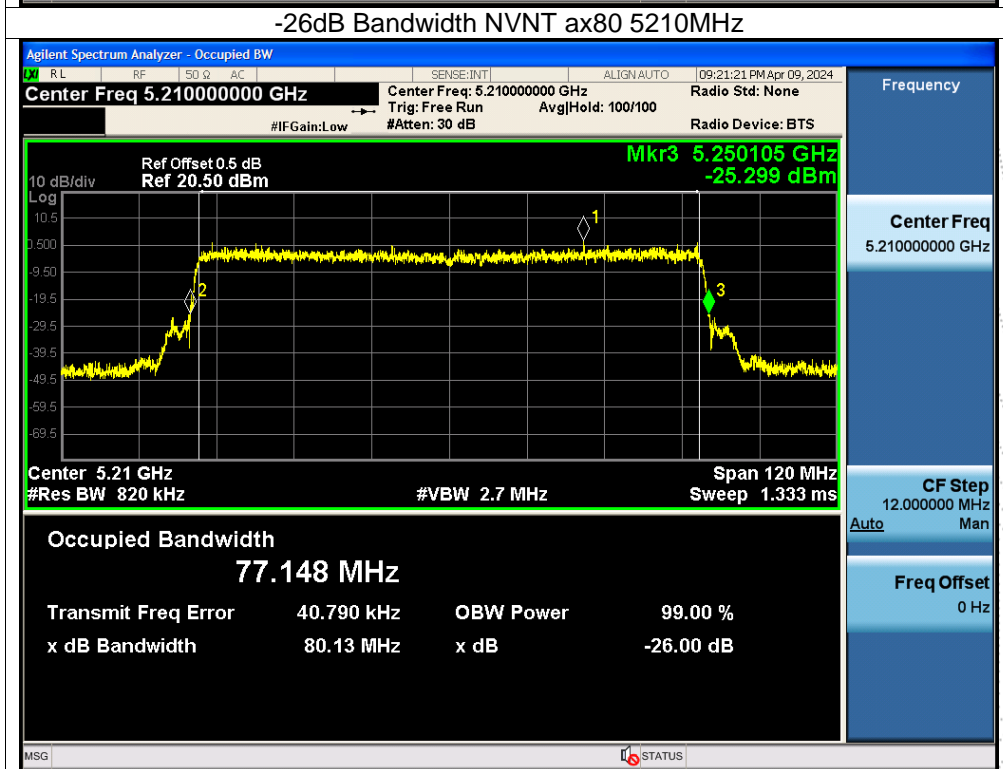
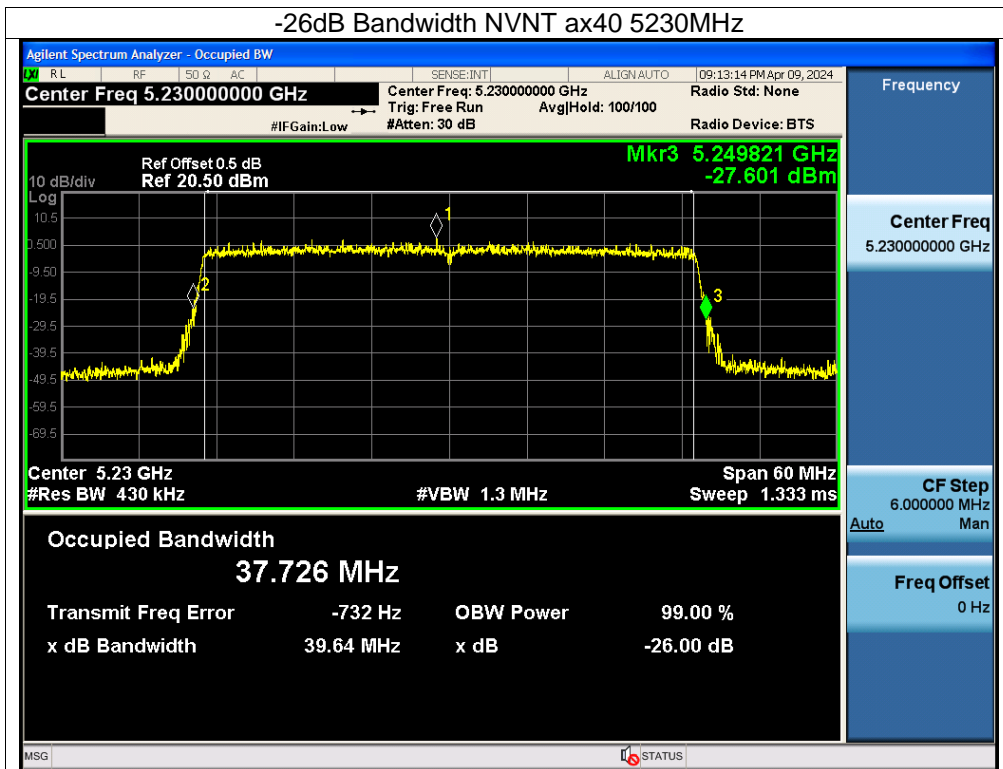




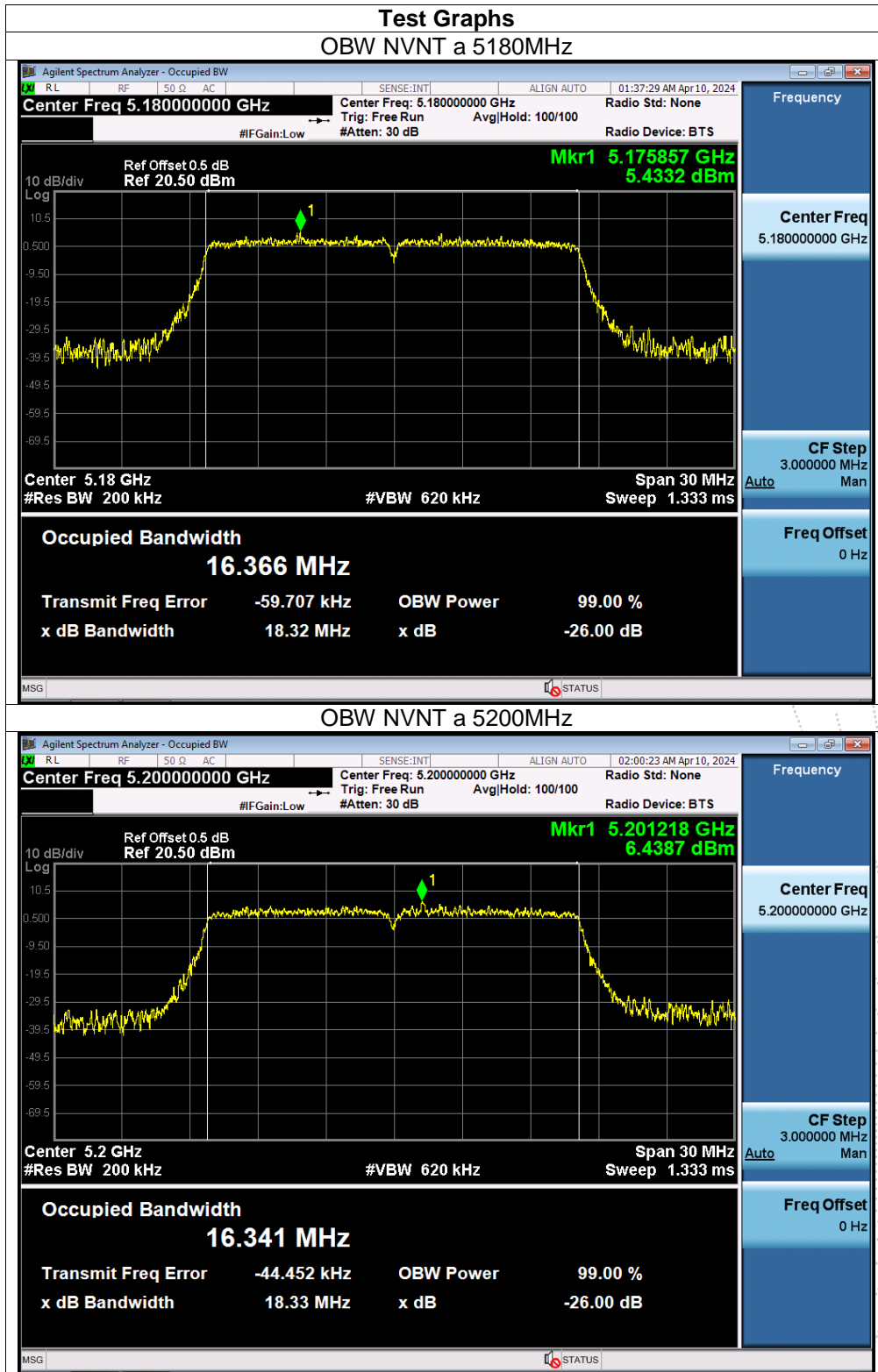


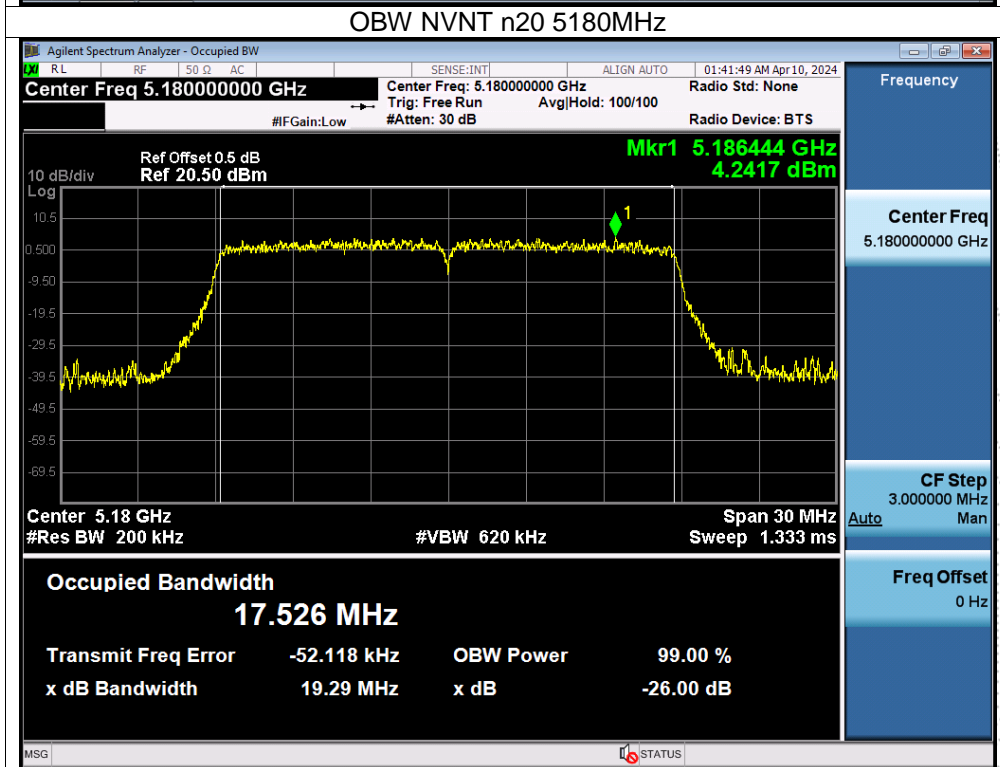
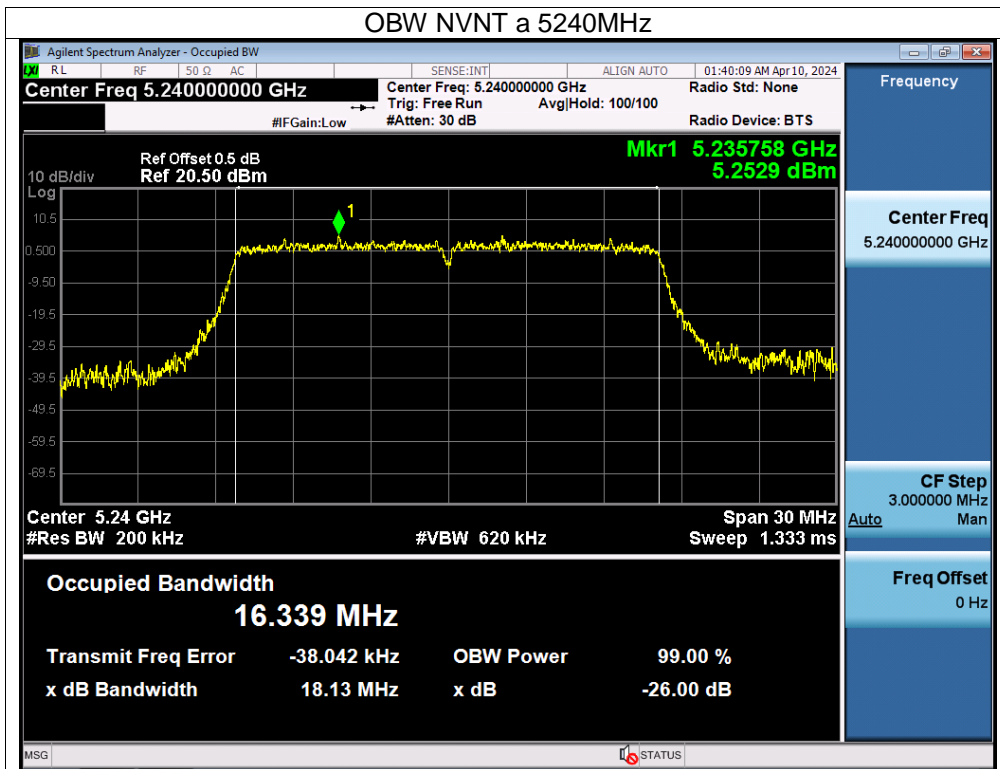


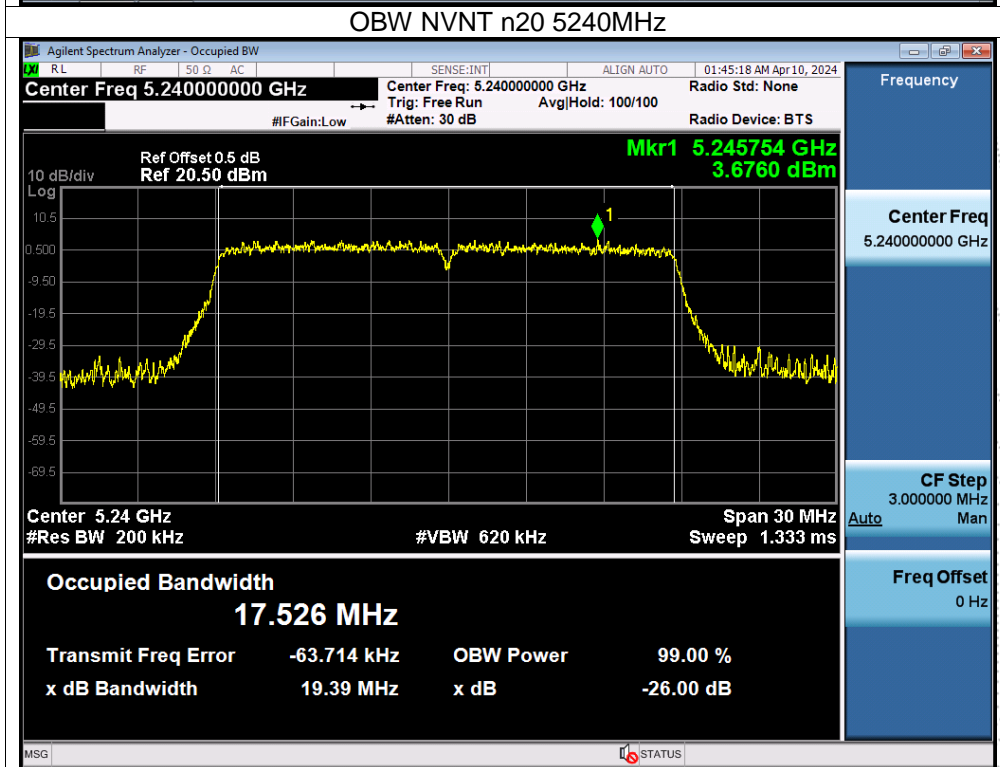
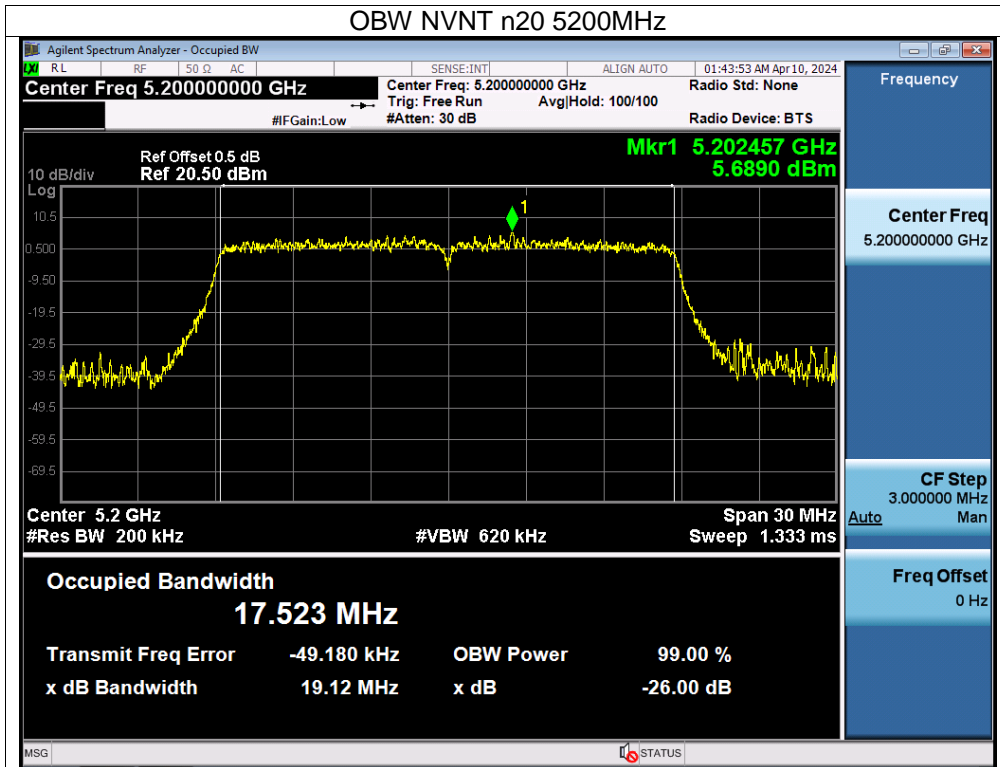


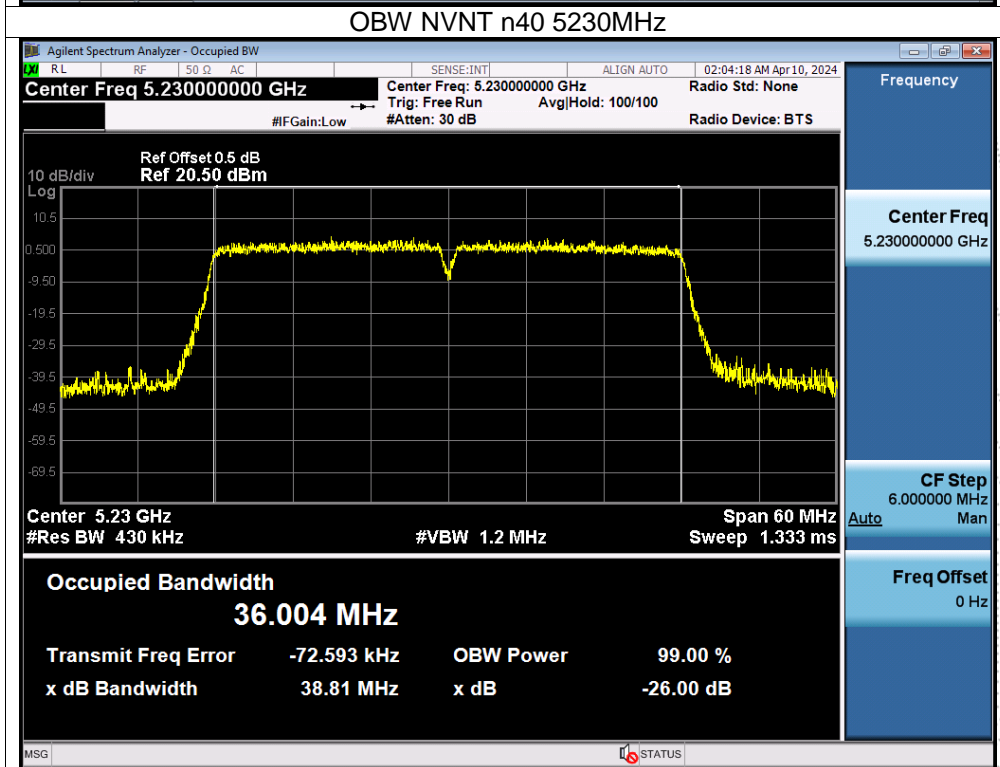
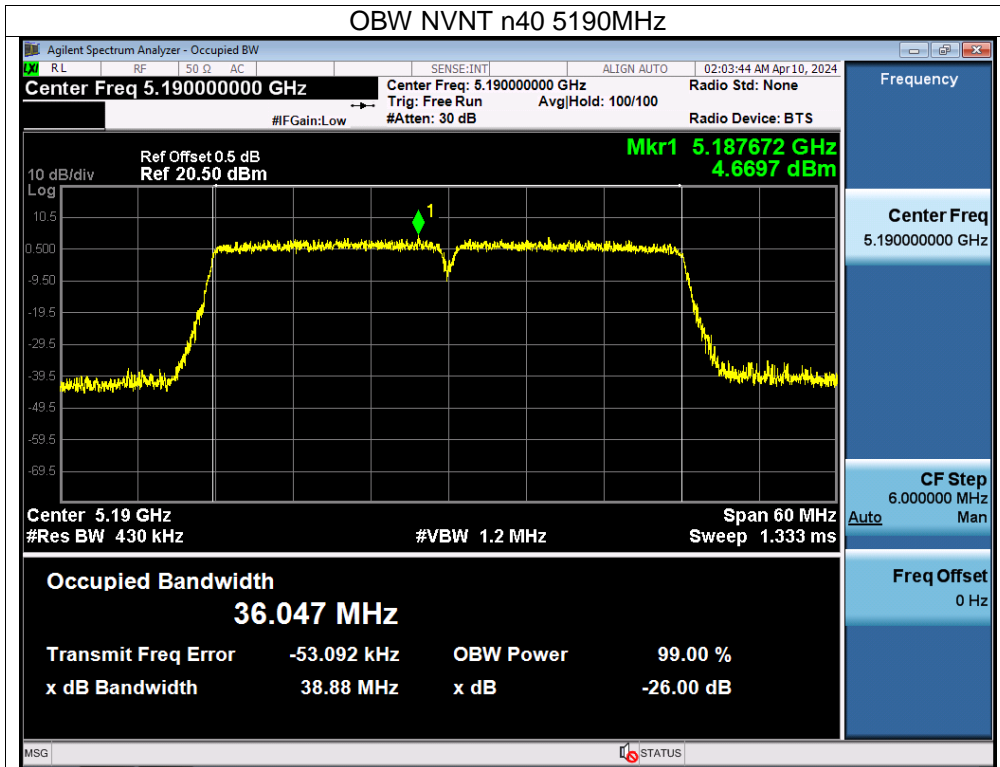


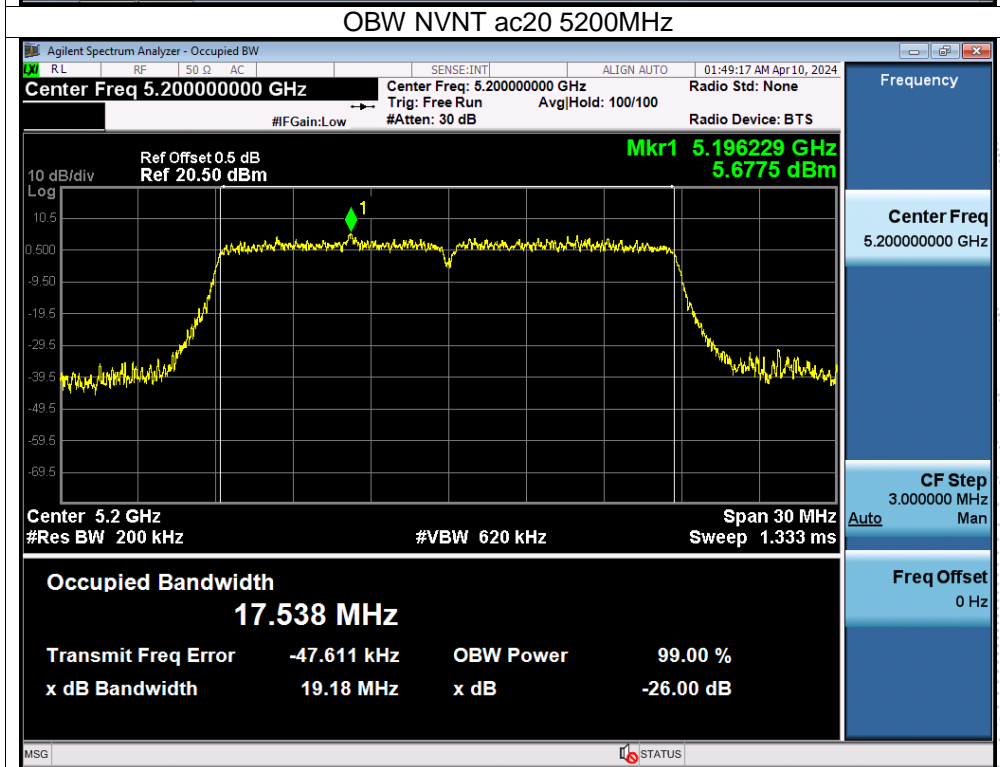
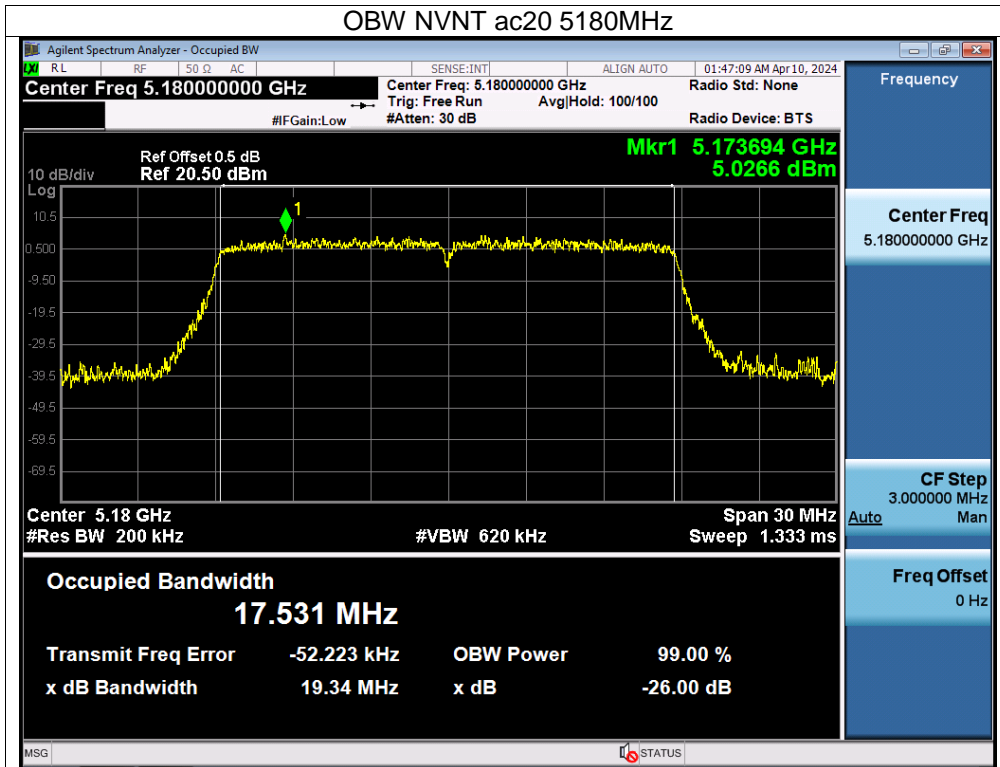
Note: A(B) Represent the value of antenna A and B. The worst data is Antenna B, only shown Antenna B Plot.

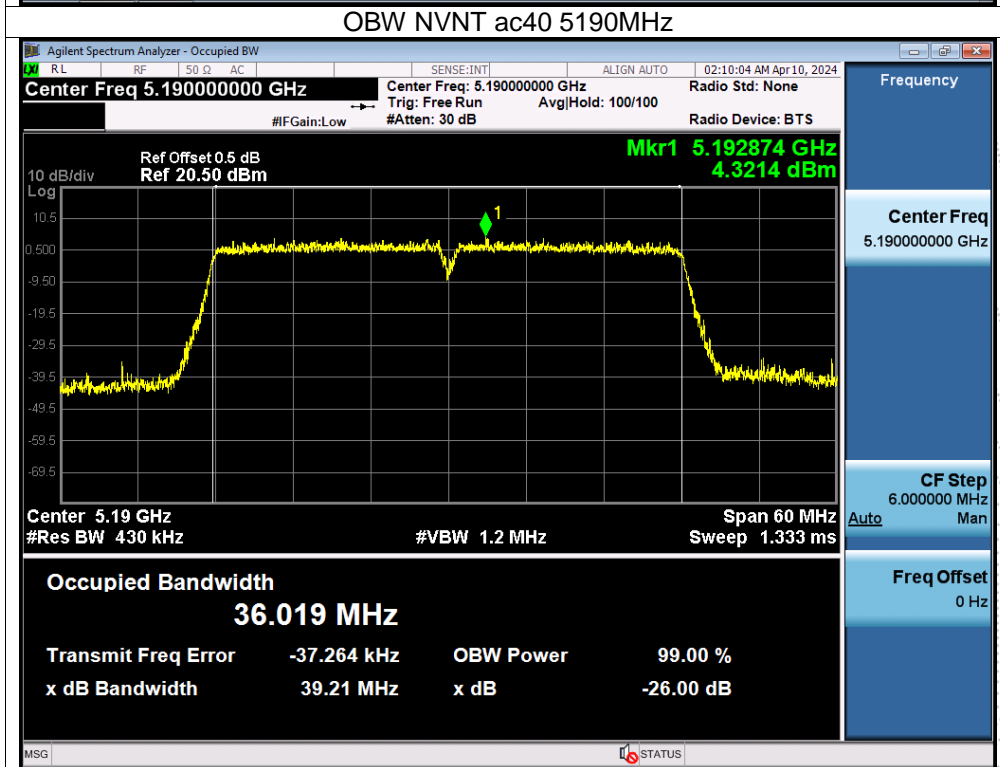
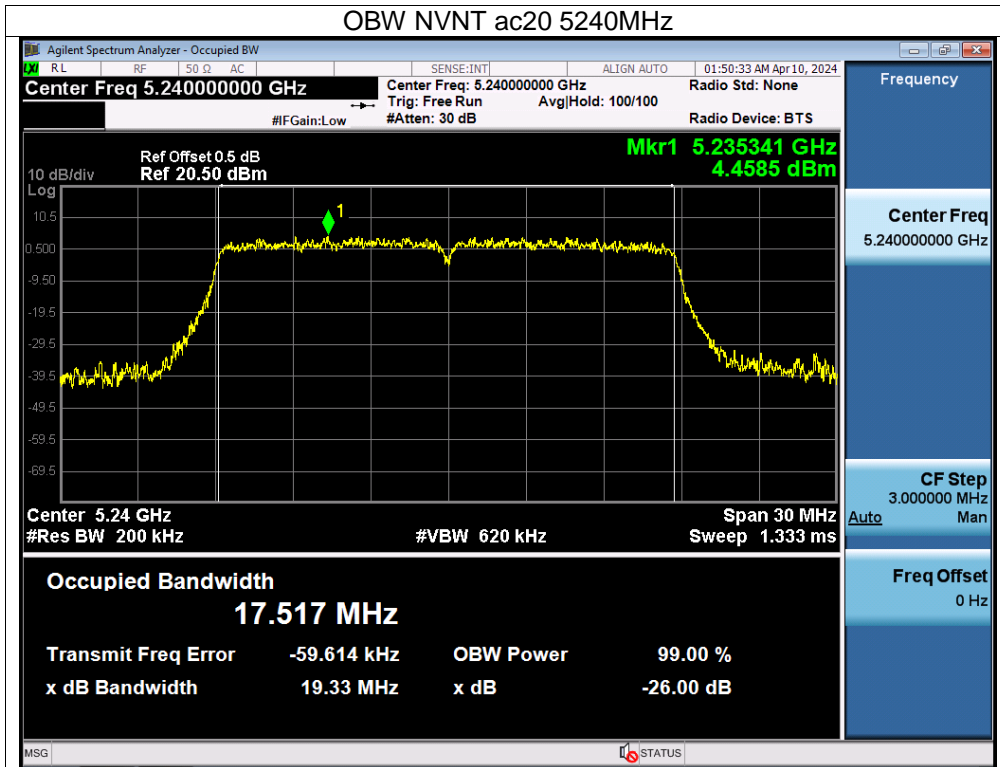


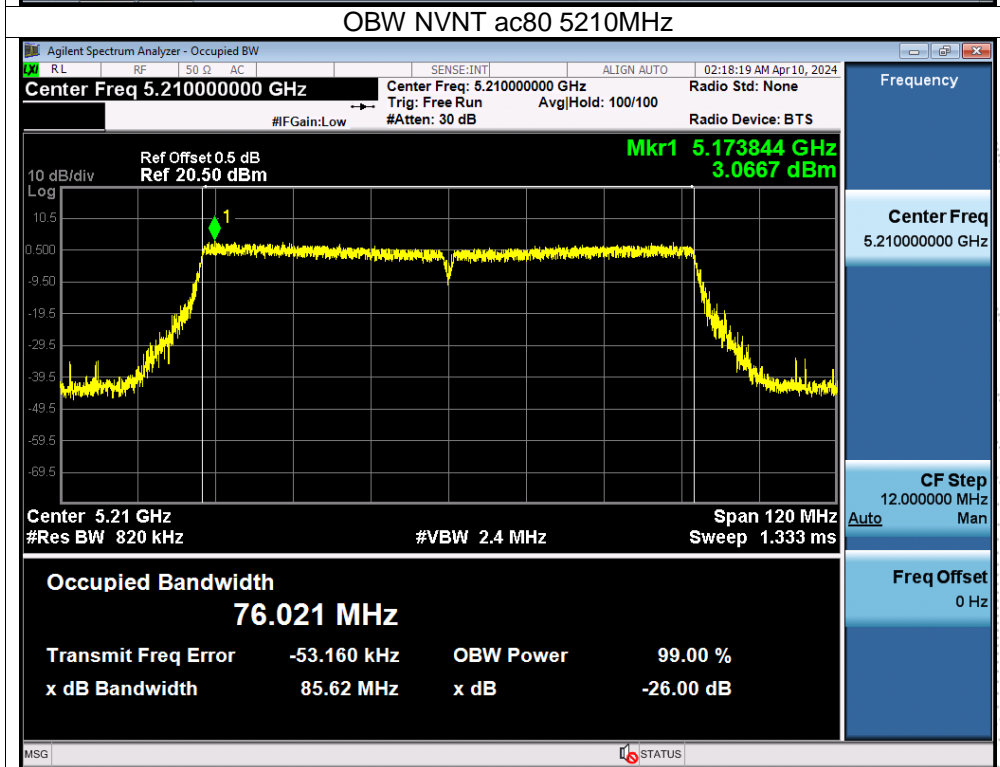
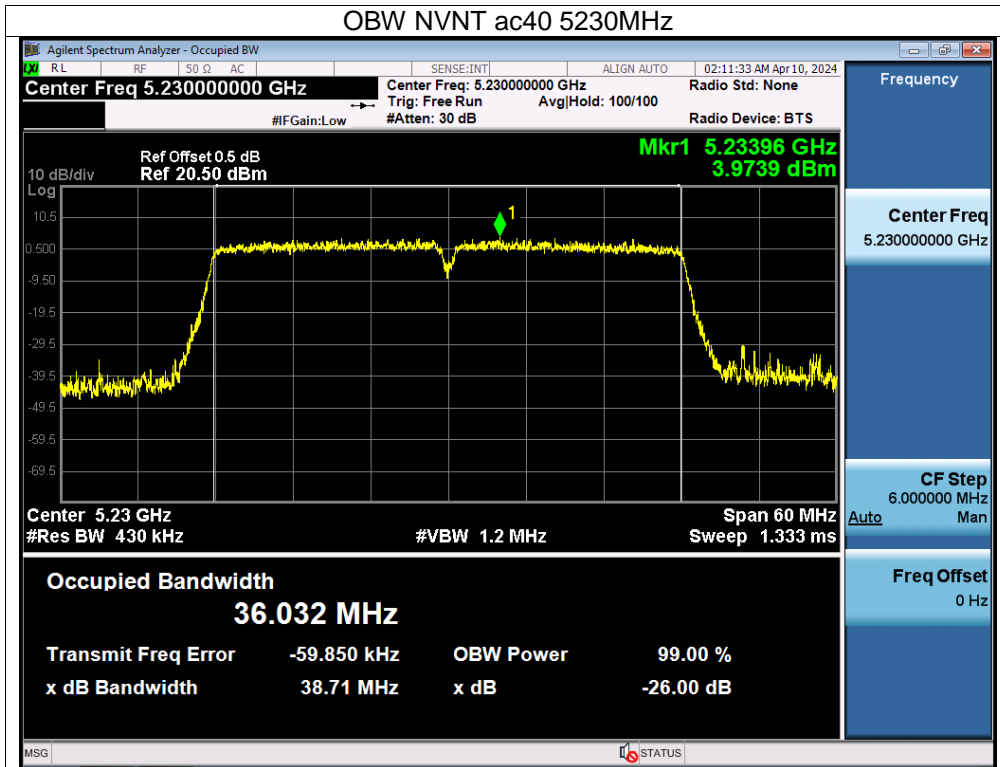


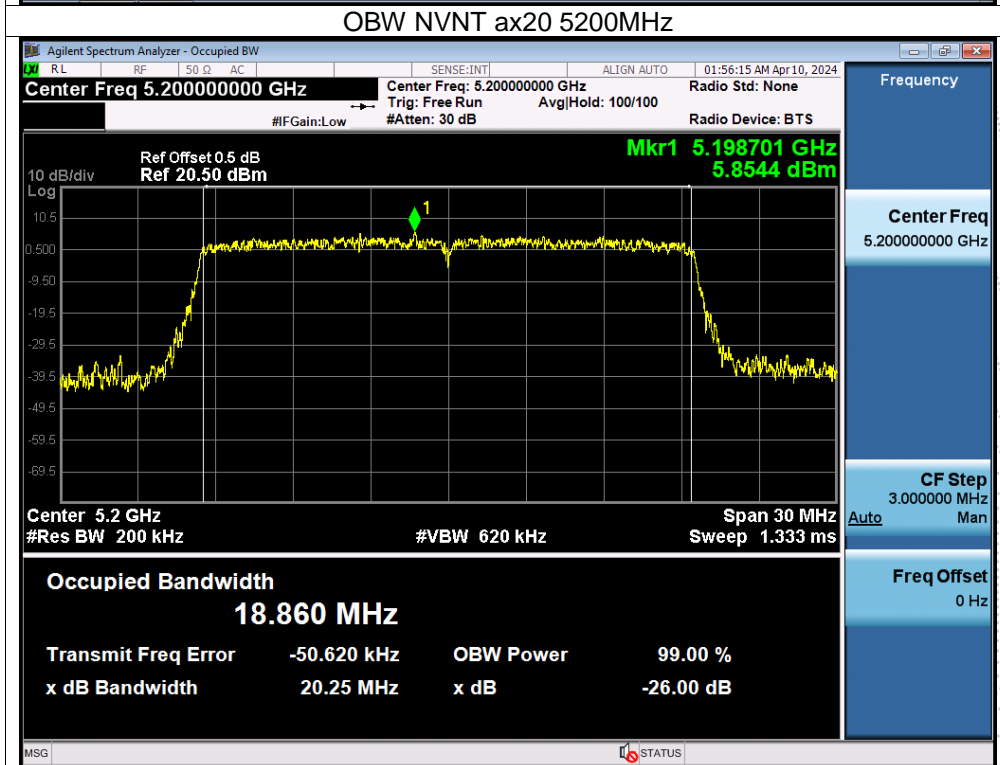
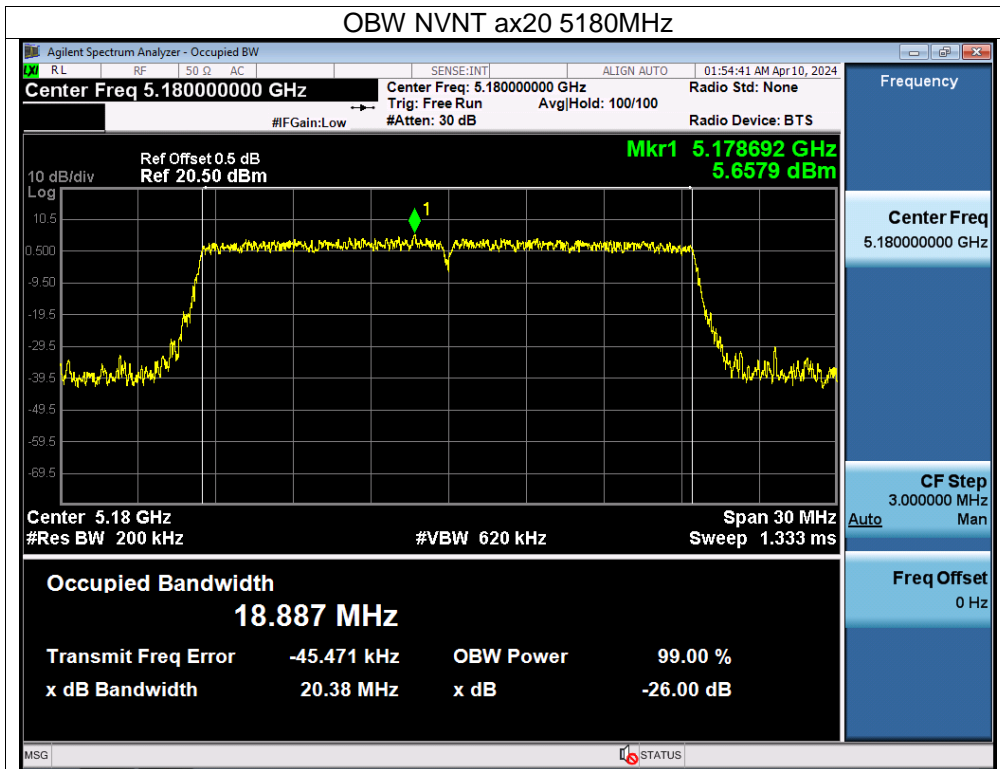


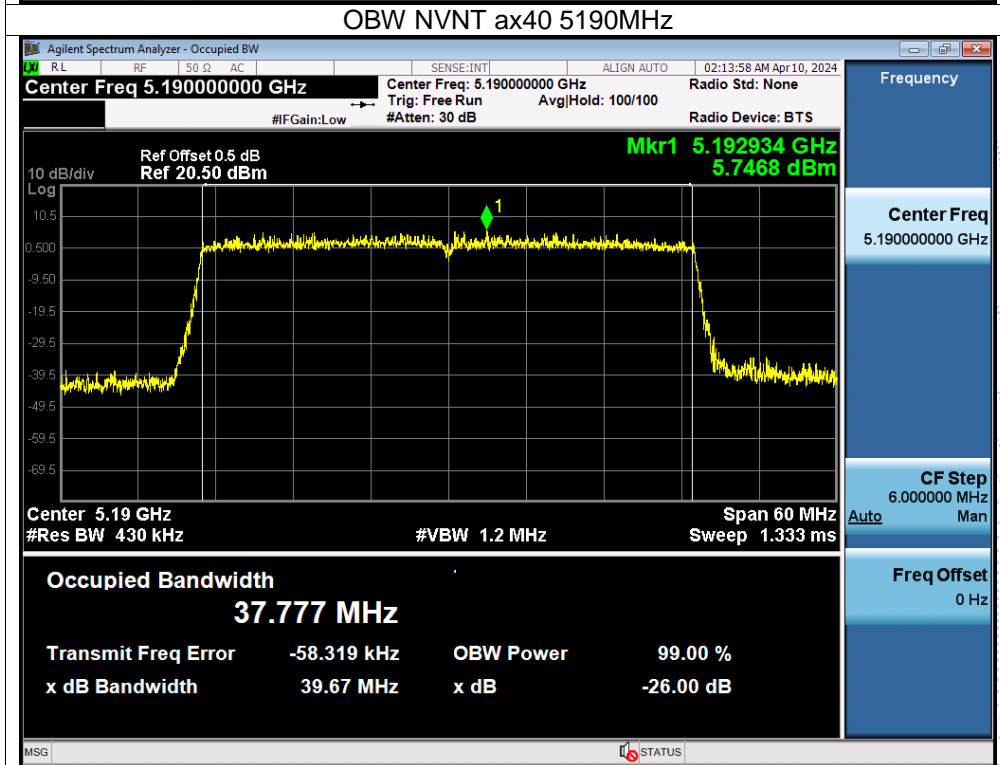
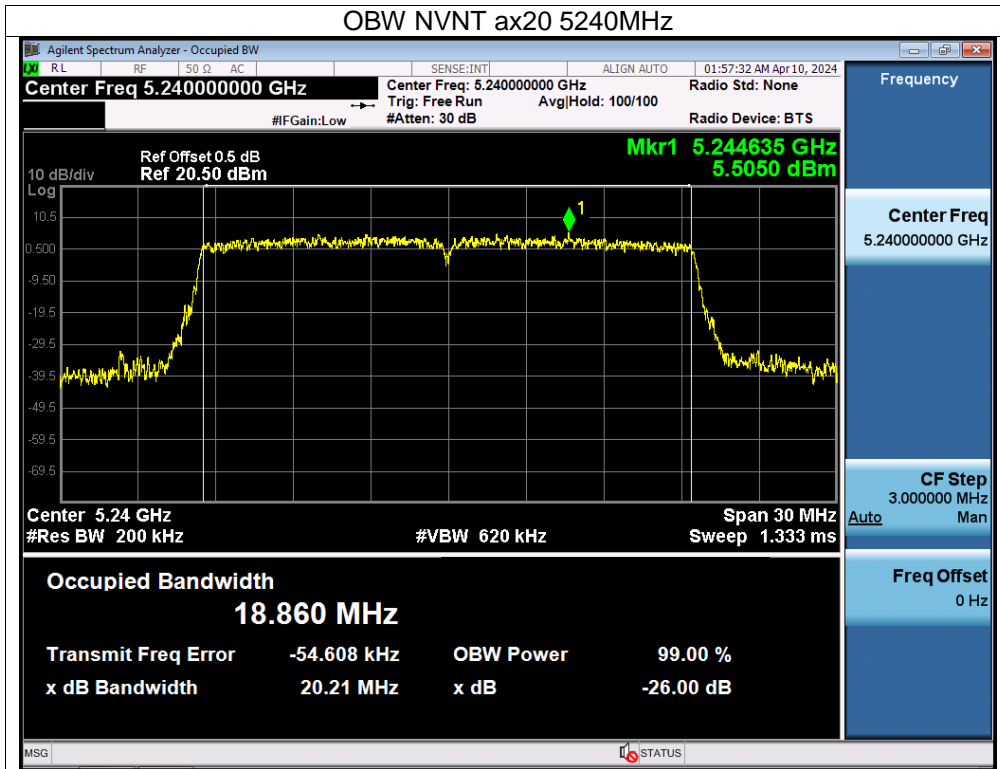


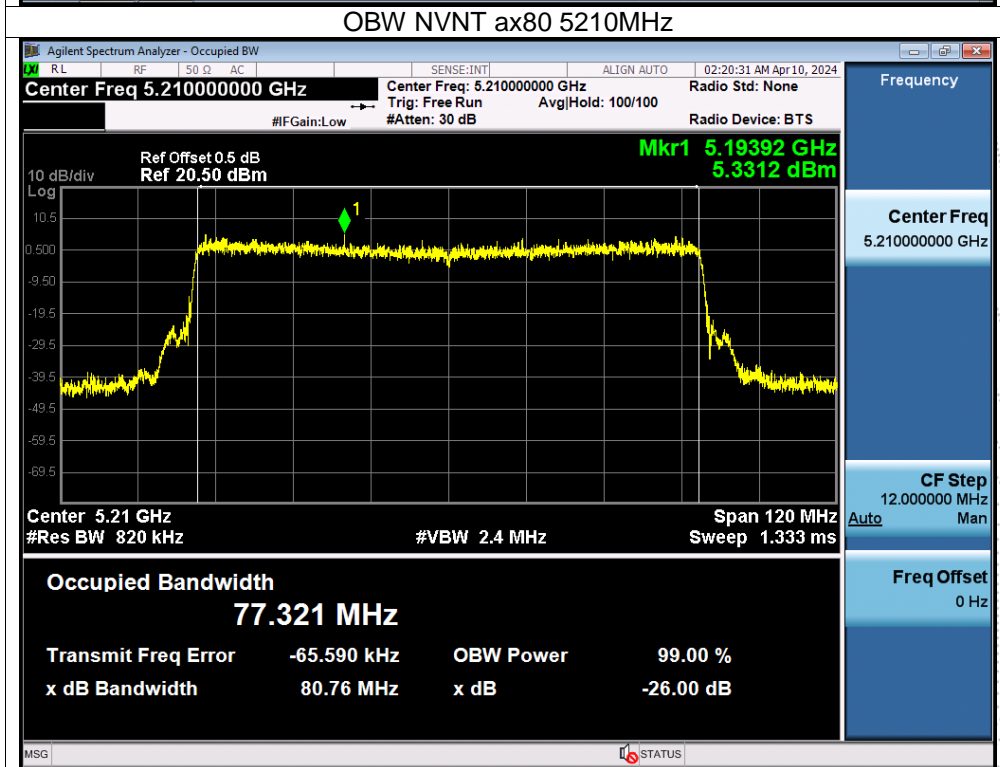
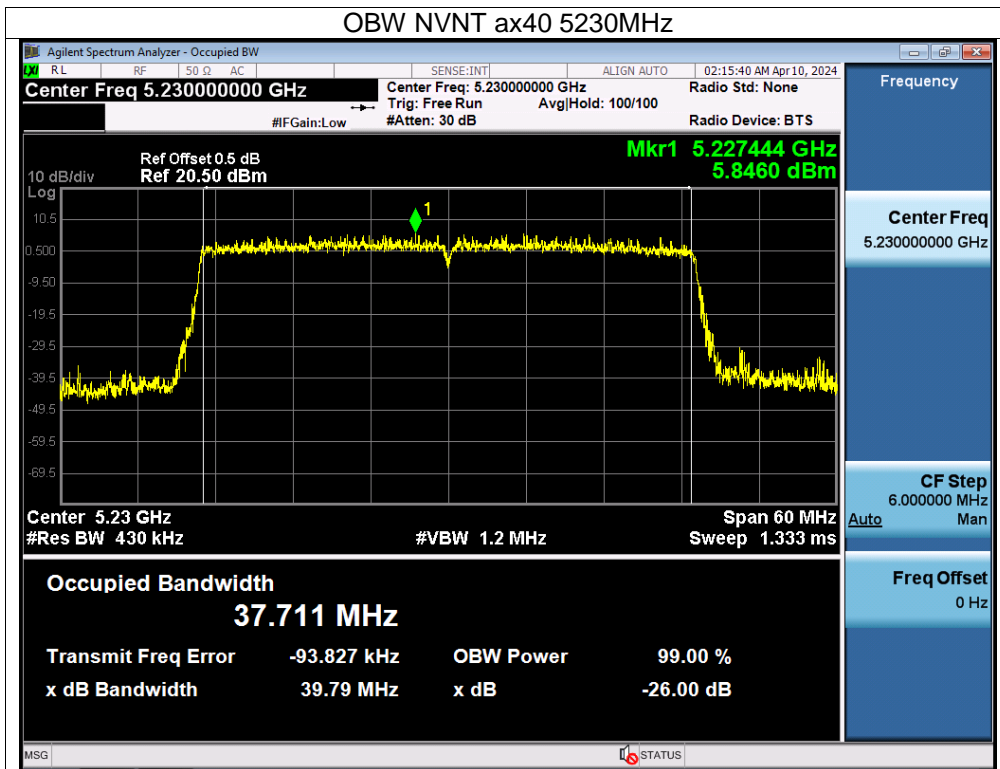












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.3V
Test Mode:	TX Frequency U-NII-3 (5745-5825MHz)		

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	16.309	16.324	16.353	16.344	0.5	Pass
NVNT	a	5785	16.325	16.3	16.344	16.35	0.5	Pass
NVNT	a	5825	16.312	16.483	16.369	16.36	0.5	Pass
NVNT	n20	5745	16.9	17.507	17.519	17.519	0.5	Pass
NVNT	n20	5785	17.035	17.057	17.541	17.534	0.5	Pass
NVNT	n20	5825	16.899	17.553	17.524	17.536	0.5	Pass
NVNT	n40	5755	35.938	35.66	36.029	36.048	0.5	Pass
NVNT	n40	5795	36.008	36.278	36.065	36.033	0.5	Pass
NVNT	ac20	5745	17.575	17.58	17.55	17.514	0.5	Pass
NVNT	ac20	5785	17.317	17.514	17.512	17.516	0.5	Pass
NVNT	ac20	5825	17.542	17.332	17.522	17.524	0.5	Pass
NVNT	ac40	5755	35.646	35.076	36.051	35.994	0.5	Pass
NVNT	ac40	5795	36.301	36.041	36.083	36.046	0.5	Pass
NVNT	ac80	5775	70.475	75.745	75.81	75.919	0.5	Pass
NVNT	ax20	5745	18.468	18.983	18.863	18.875	0.5	Pass
NVNT	ax20	5785	18.89	18.749	18.875	18.89	0.5	Pass
NVNT	ax20	5825	18.938	18.634	18.875	18.865	0.5	Pass
NVNT	ax40	5755	37.942	37.951	37.774	37.617	0.5	Pass
NVNT	ax40	5795	37.996	37.806	37.694	37.674	0.5	Pass
NVNT	ax80	5775	77.534	76.309	77.063	77.075	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.

