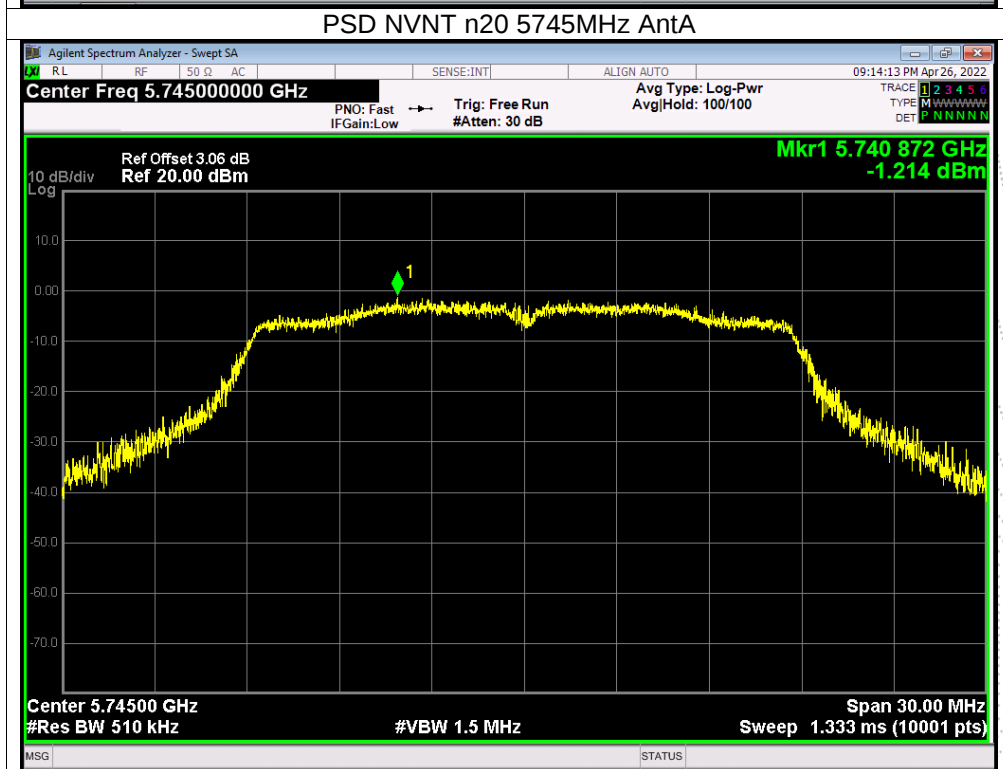
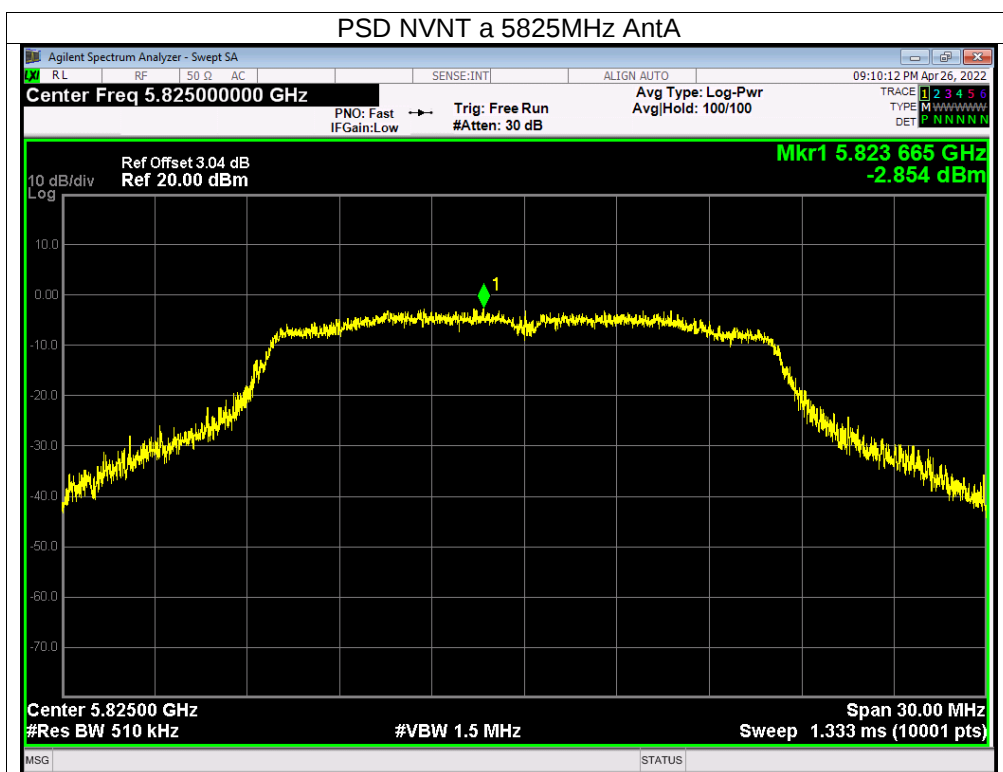
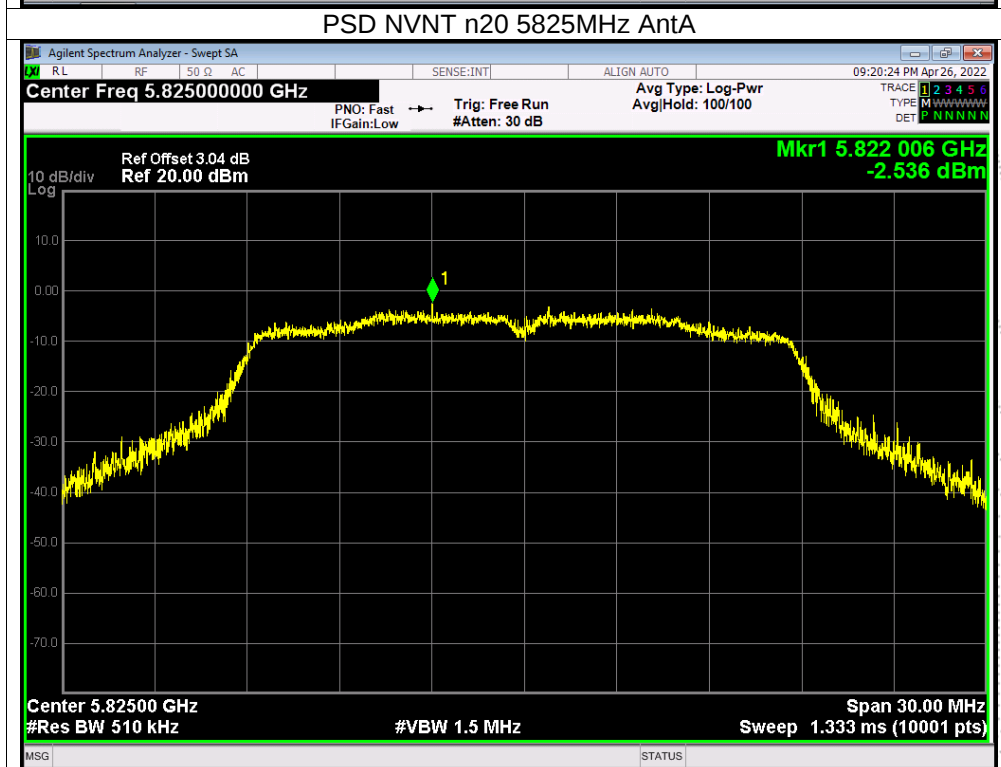
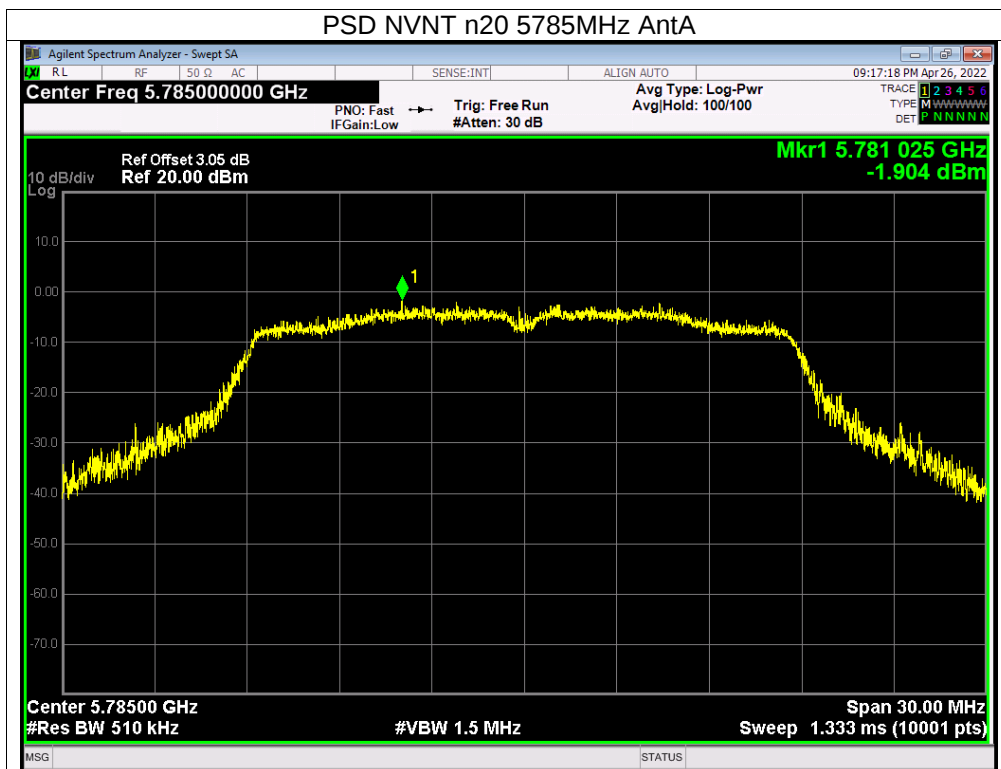
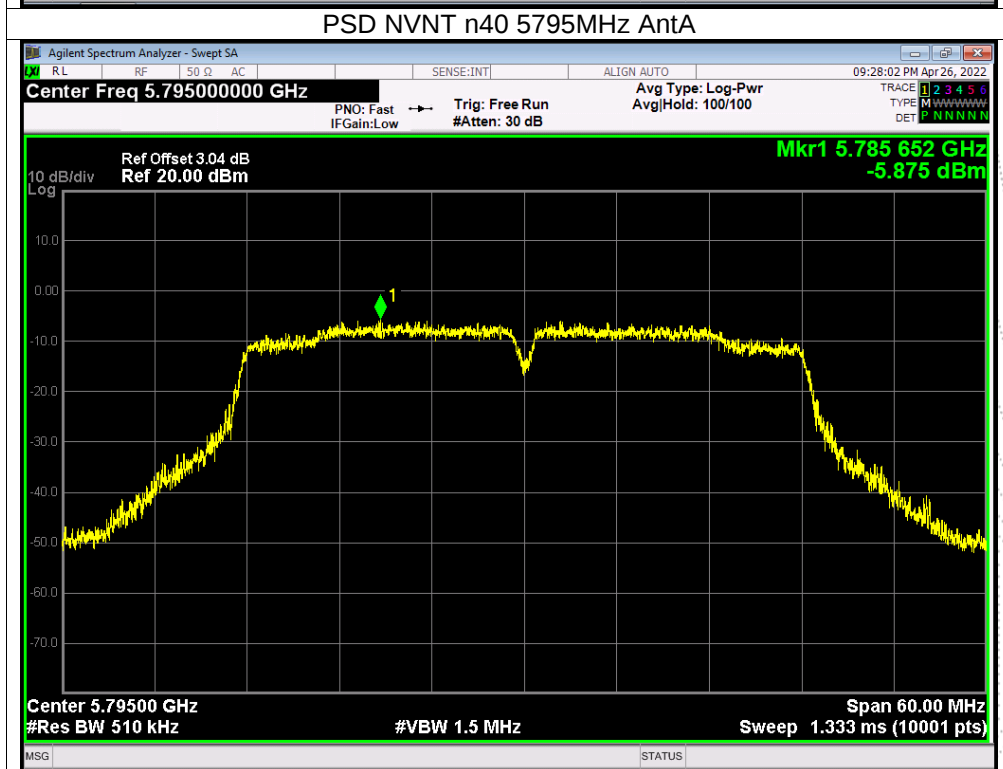
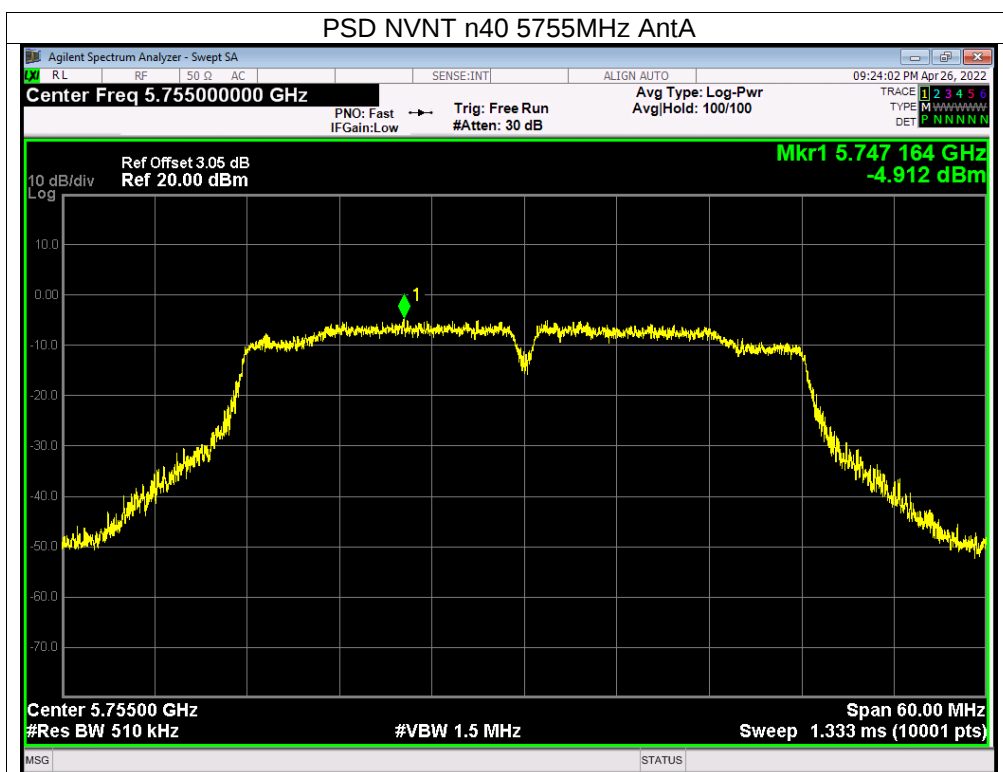
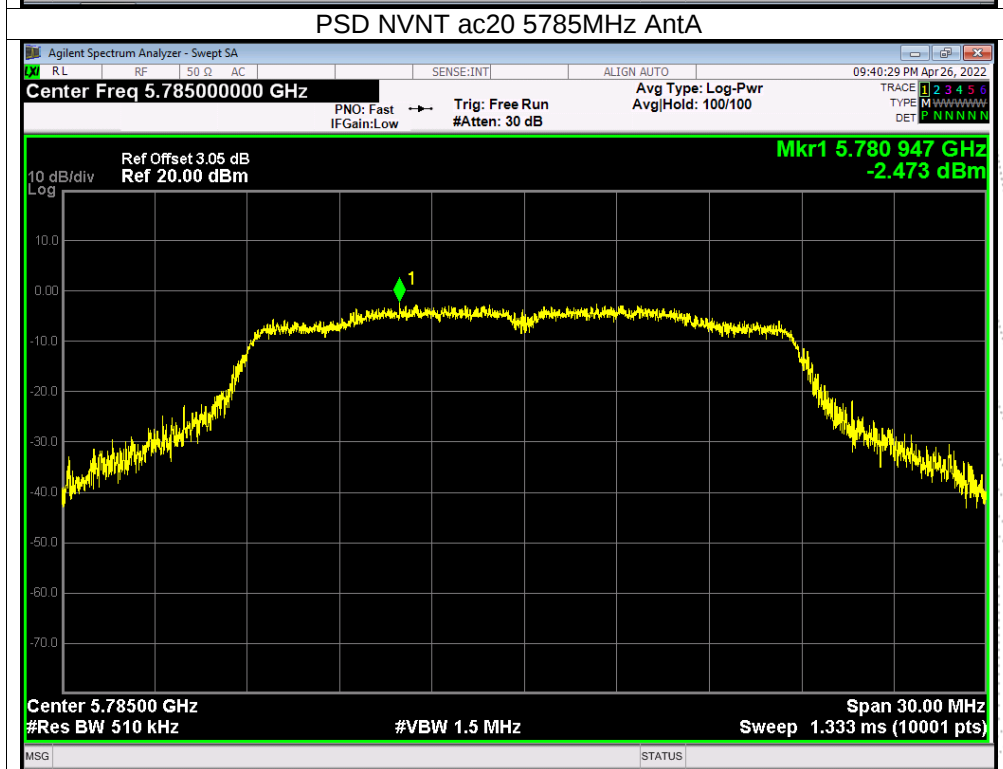
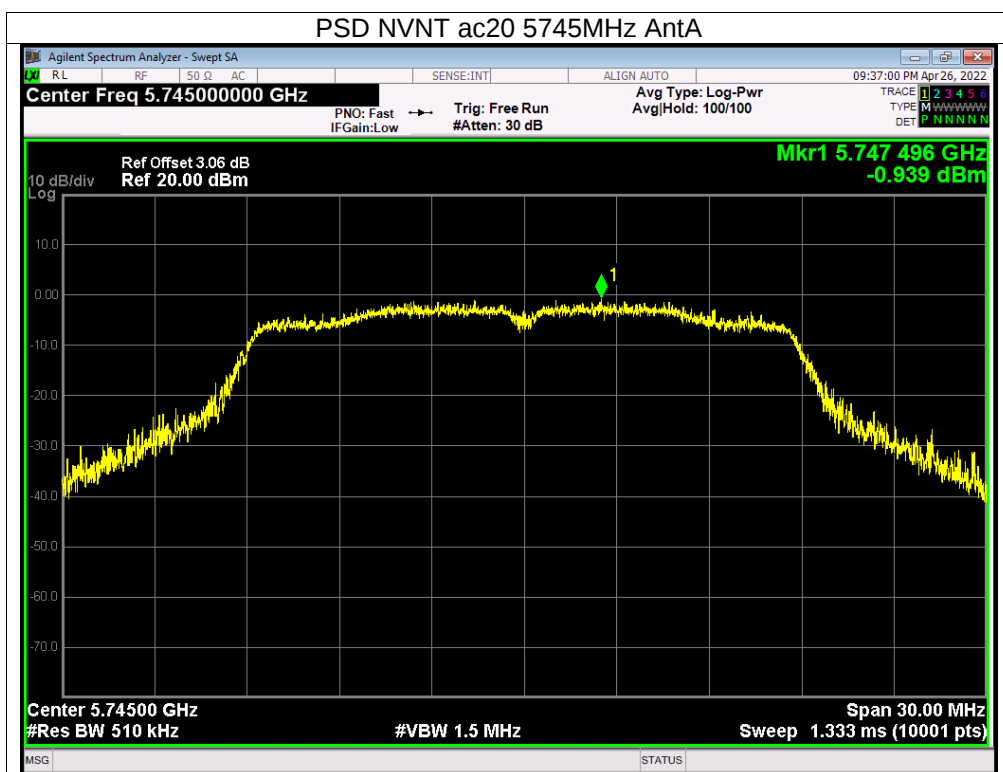
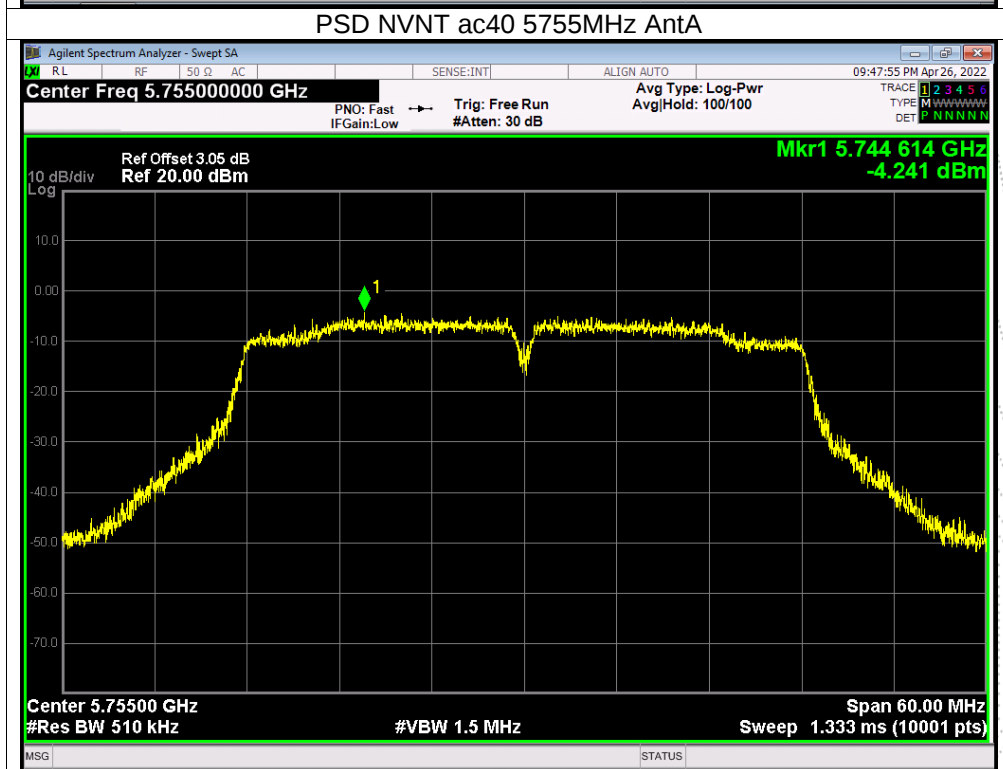
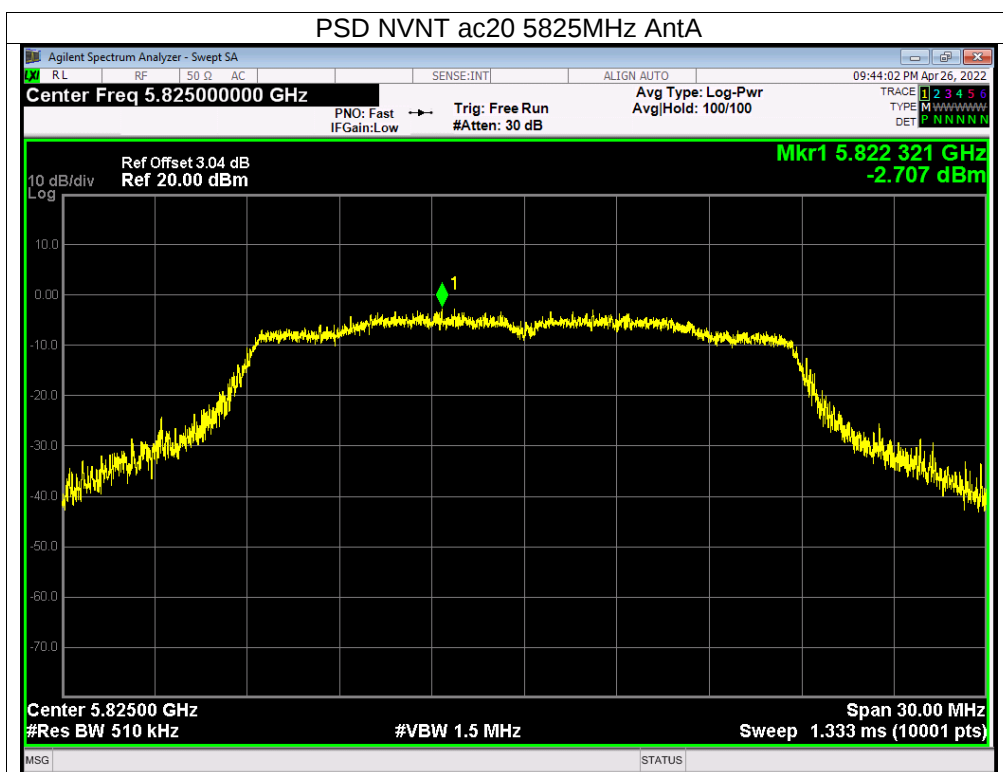


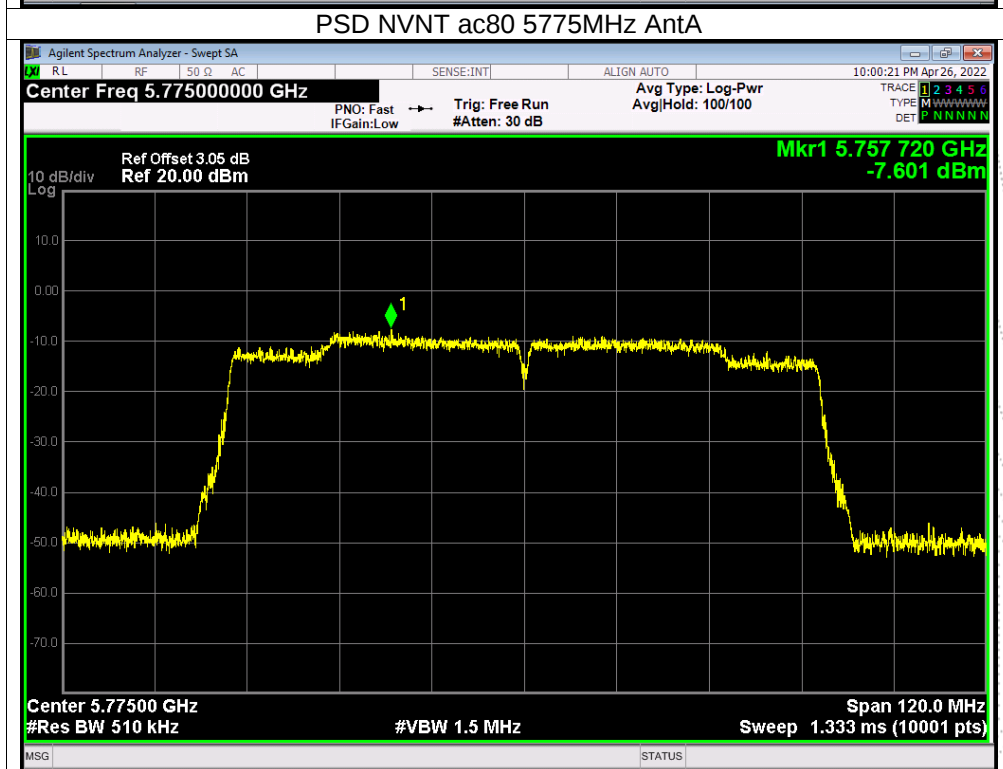
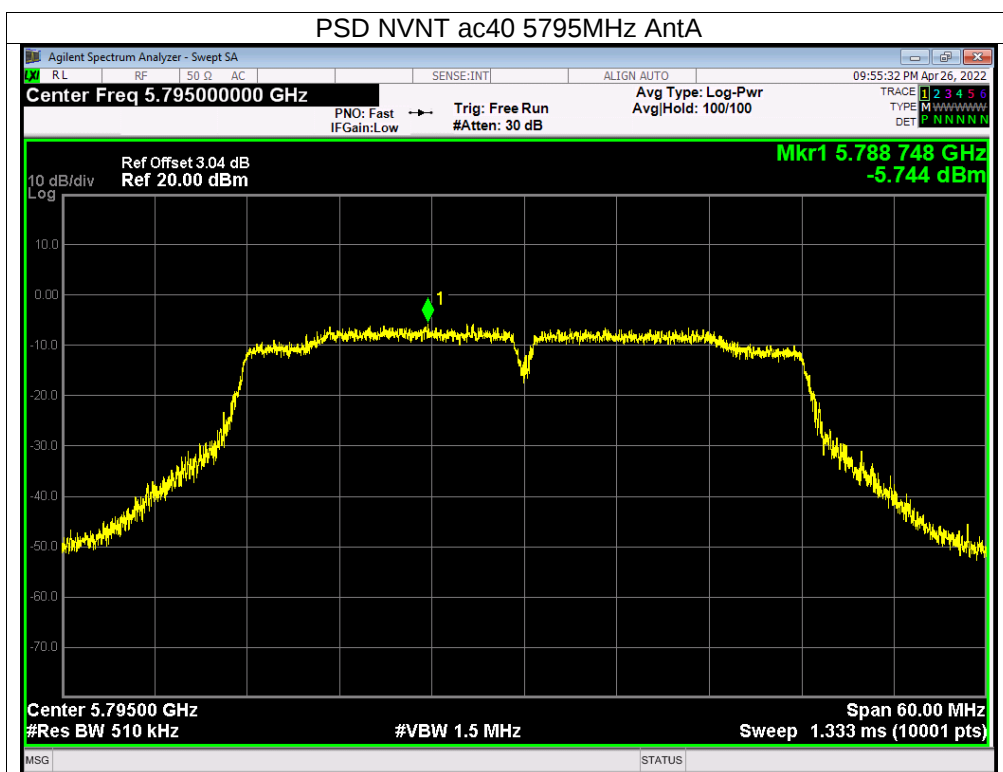






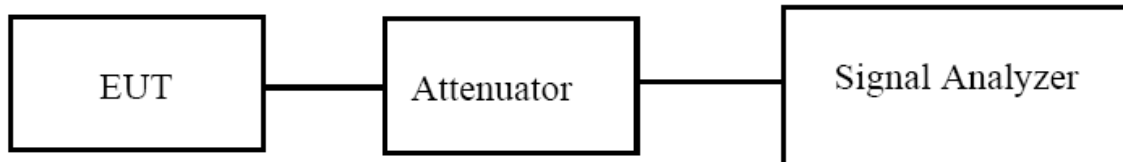






9. 26dB & 6dB & 99% Emission Bandwidth

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 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.

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 7.6V
Test Mode :	TX Frequency U-NII-1 (5180-5240MHz)		

Mode	Channel	Frequency (MHz)	99% bandwidth (MHz)	26dB bandwidth (MHz)	Limit MHz	Result
			ANT A	ANT A		
802.11a	CH36	5180	16.464	23.771	N/A	Pass
	CH40	5200	16.425	22.184	N/A	Pass
	CH48	5240	16.424	22.981	N/A	Pass
802.11 n20	CH36	5180	17.625	23.693	N/A	Pass
	CH40	5200	17.656	24.086	N/A	Pass
	CH48	5240	17.597	23.846	N/A	Pass
802.11 n40	CH 38	5190	36.053	44.042	N/A	Pass
	CH 46	5230	36.073	43.343	N/A	Pass
802.11 ac20	CH36	5180	17.639	23.935	N/A	Pass
	CH40	5200	17.619	23.14	N/A	Pass
	CH48	5240	17.629	23.135	N/A	Pass
802.11 ac40	CH 38	5190	36.003	42.561	N/A	Pass
	CH 46	5230	36.004	43.105	N/A	Pass
802.11 AC80	CH 42	5210	75.169	81.111	N/A	Pass

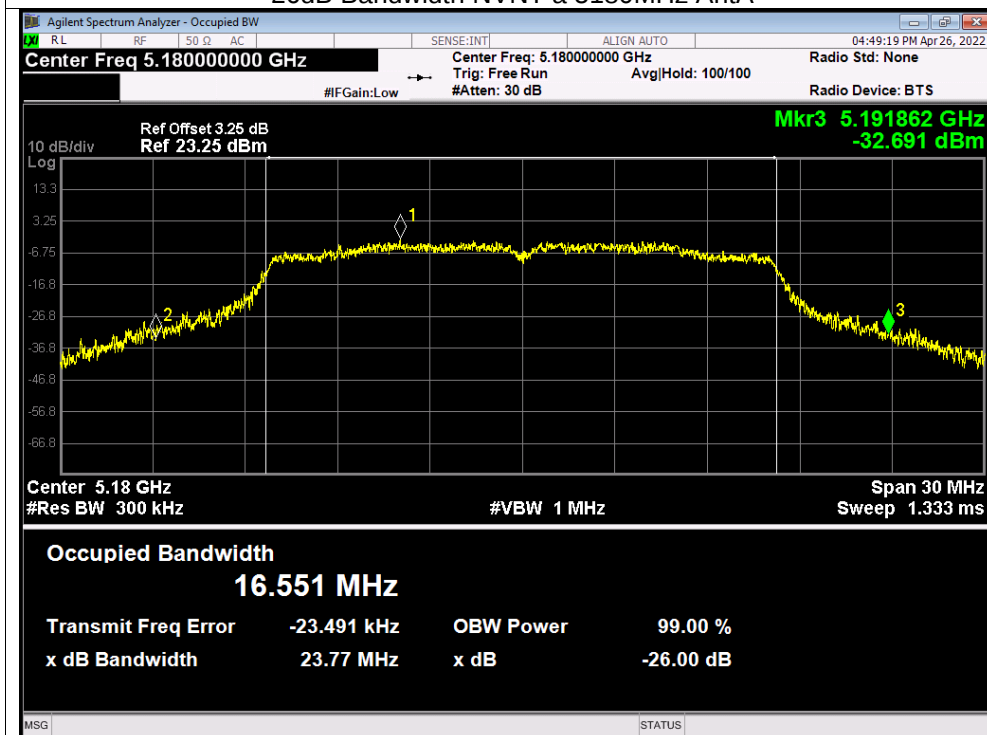
Mode	Channel	Frequency (MHz)	99% bandwidth (MHz)	26dB bandwidth (MHz)	Limit MHz	Result
			ANT B	ANT B		
802.11a	CH36	5180	16.452	22.768	N/A	Pass
	CH40	5200	16.415	23.191	N/A	Pass
	CH48	5240	16.425	23.212	N/A	Pass
802.11 n20	CH36	5180	17.639	23.189	N/A	Pass
	CH40	5200	17.638	23.222	N/A	Pass
	CH48	5240	17.624	23.906	N/A	Pass
802.11 n40	CH 38	5190	36.025	43.415	N/A	Pass
	CH 46	5230	36.081	43.437	N/A	Pass
802.11 ac20	CH36	5180	17.615	23.056	N/A	Pass
	CH40	5200	17.629	24.494	N/A	Pass
	CH48	5240	17.645	23.858	N/A	Pass
802.11 ac40	CH 38	5190	36.027	43.928	N/A	Pass
	CH 46	5230	36.031	43.217	N/A	Pass
802.11 AC80	CH 42	5210	75.153	80.662	N/A	Pass

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

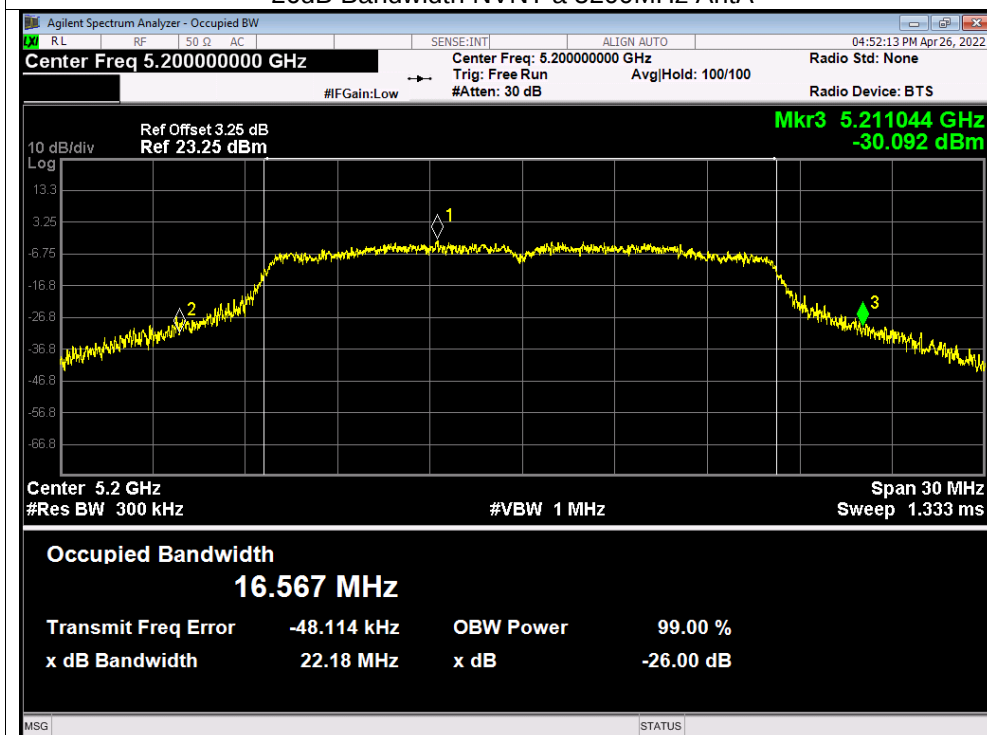
-26dB Bandwidth

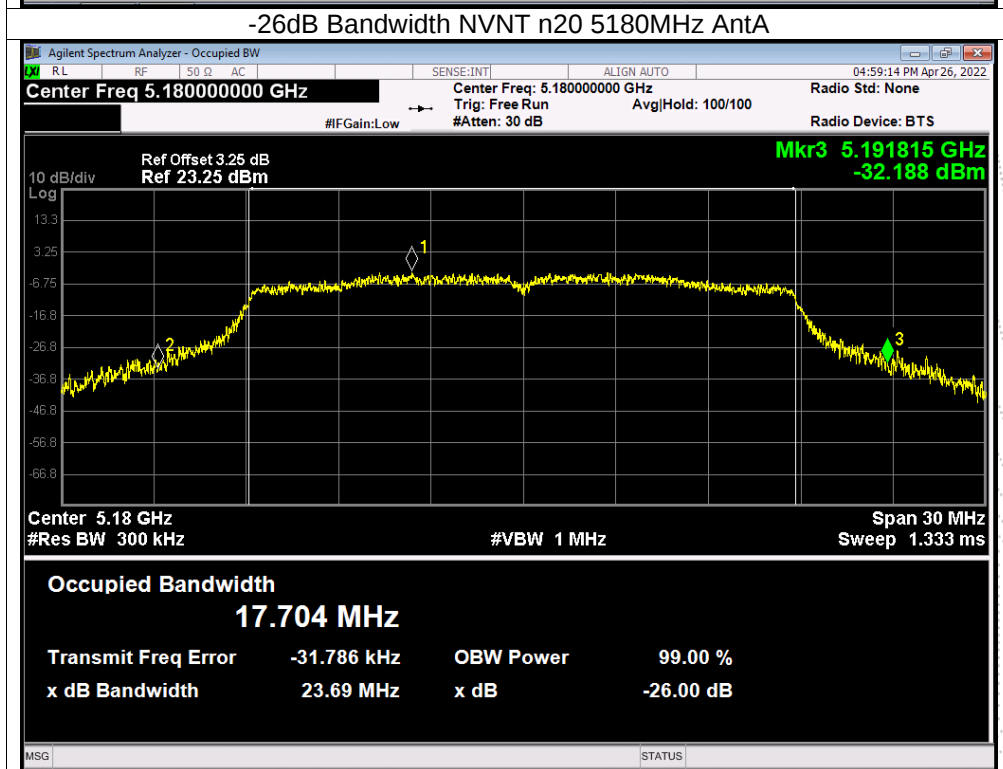
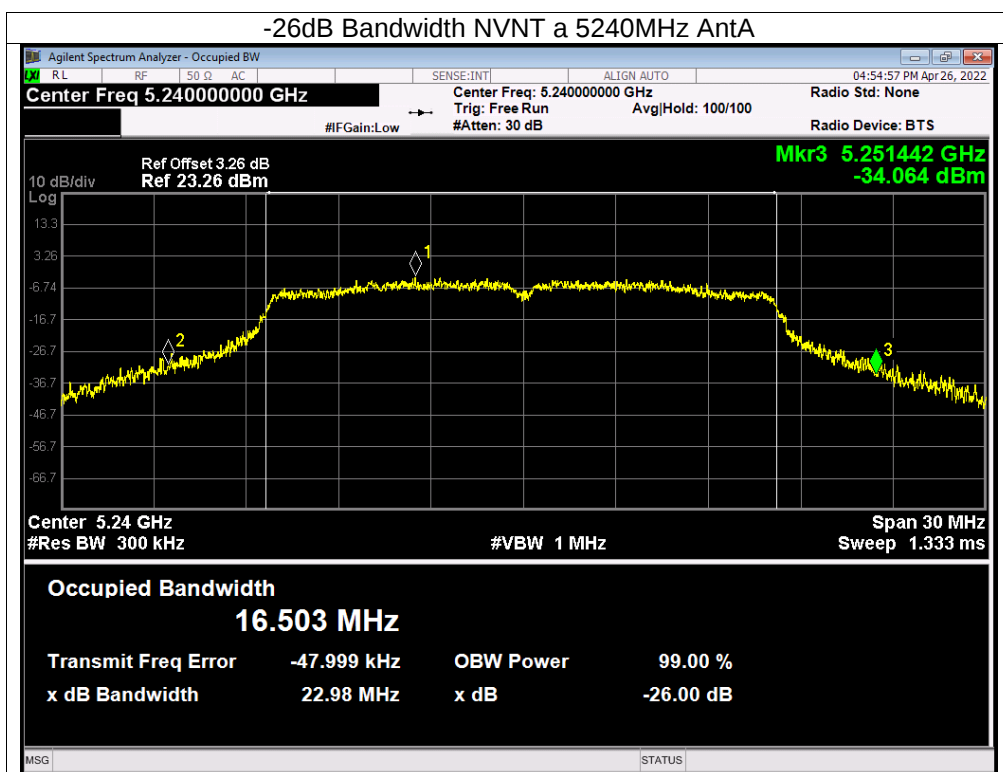
Test Graphs

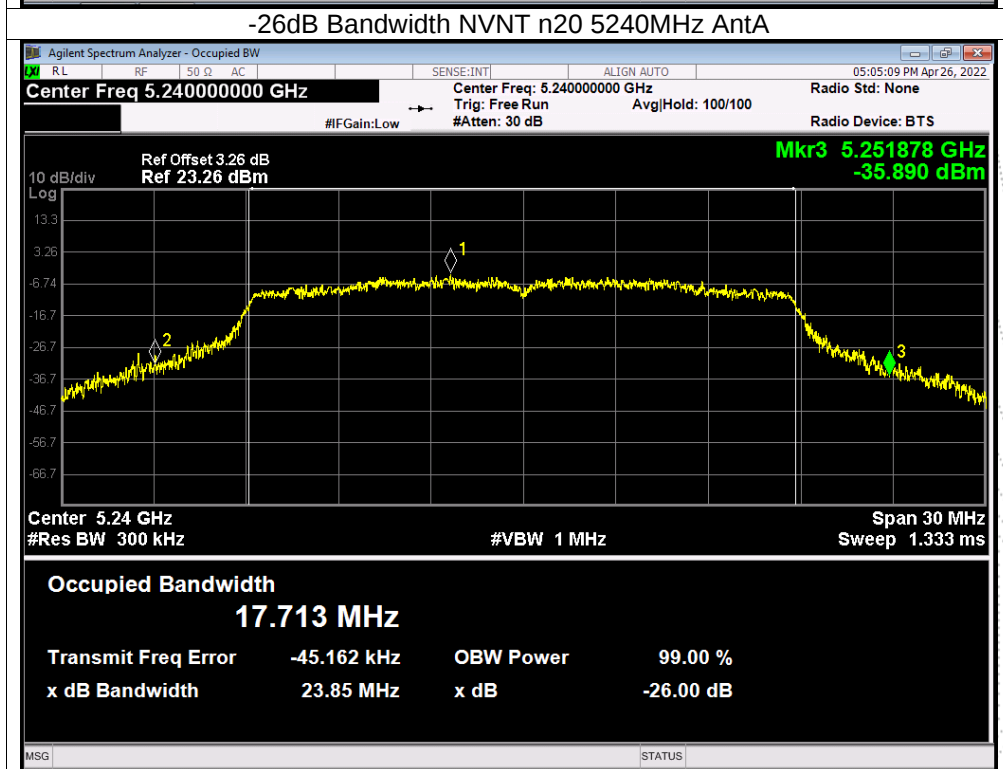
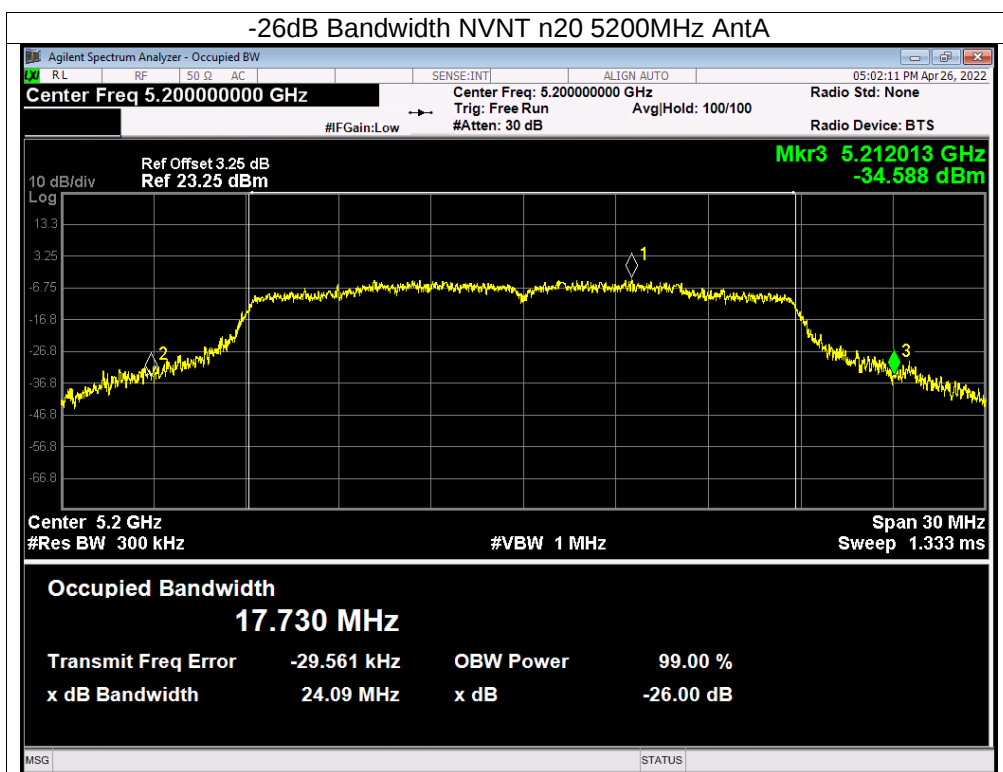
-26dB Bandwidth NVNT a 5180MHz AntA

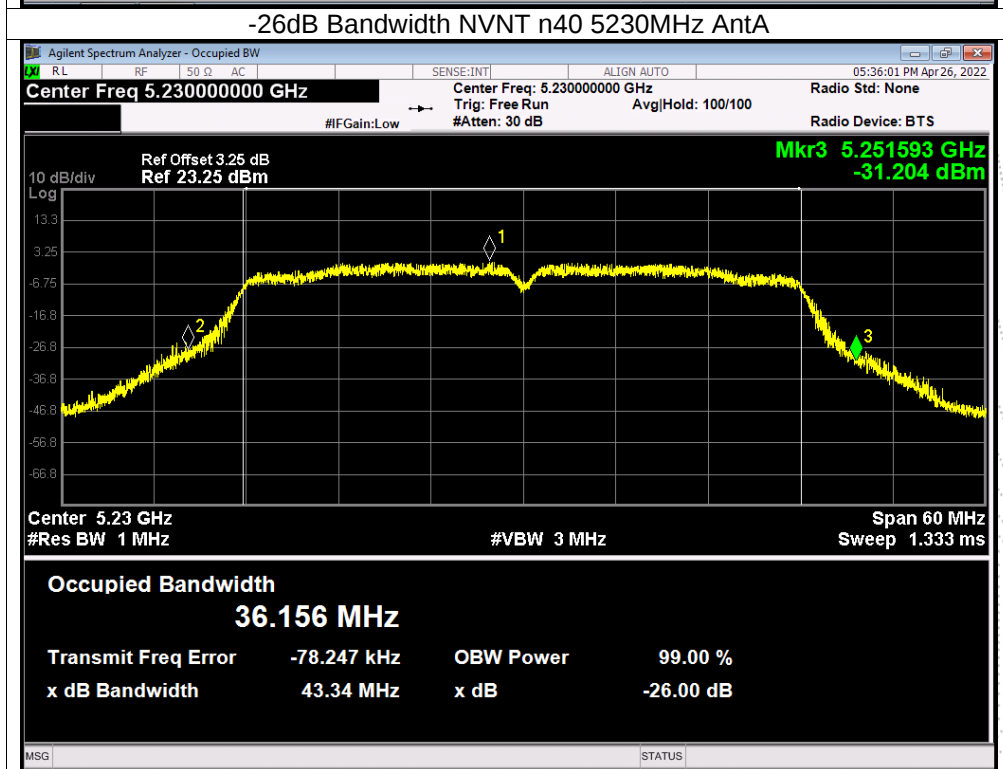
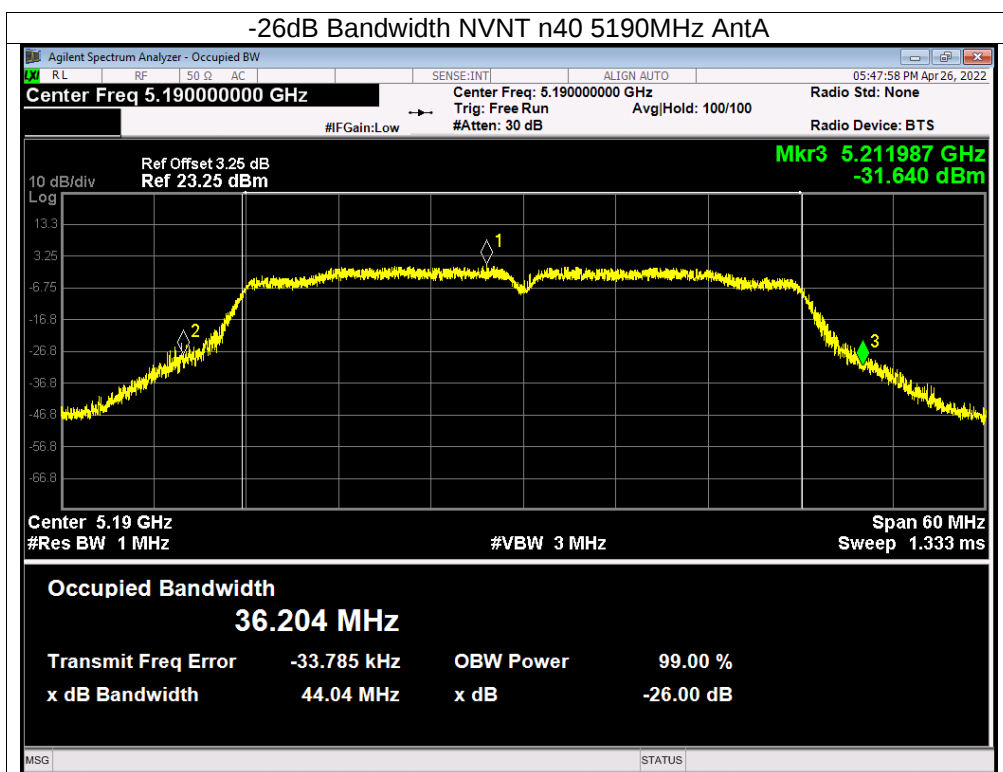


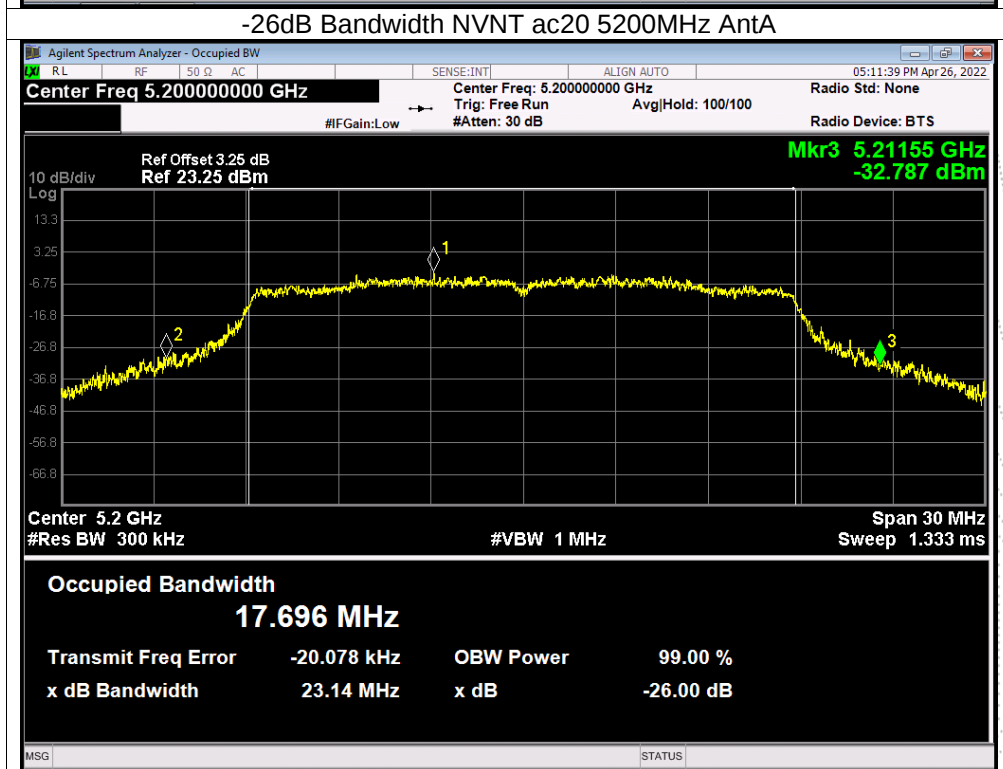
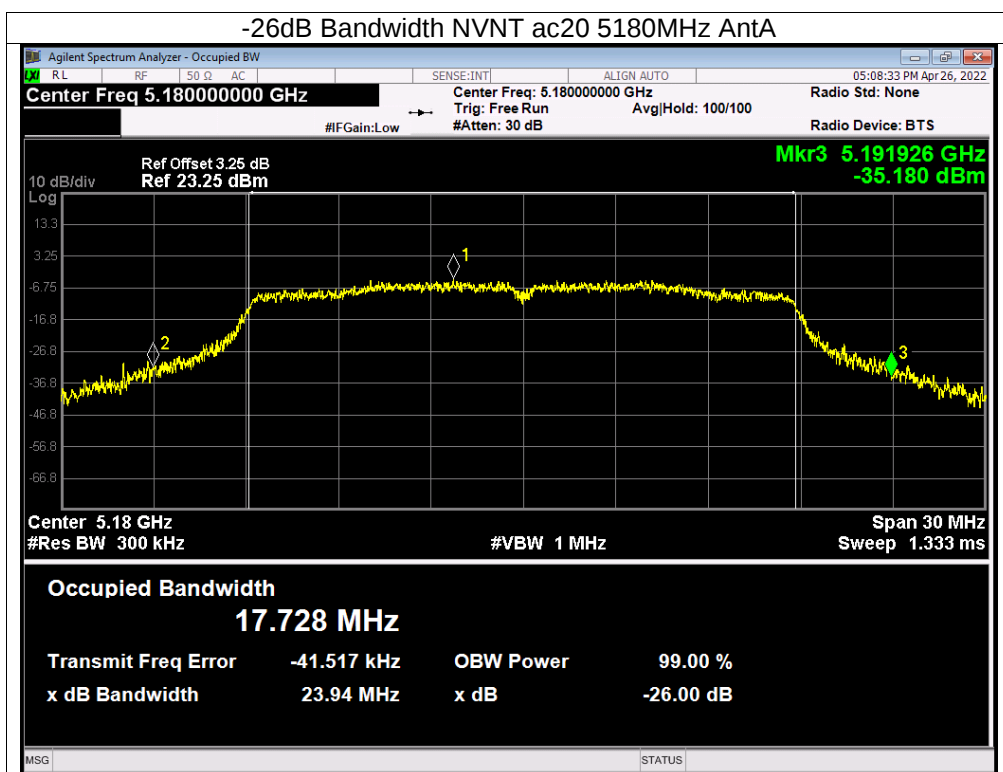
-26dB Bandwidth NVNT a 5200MHz AntA

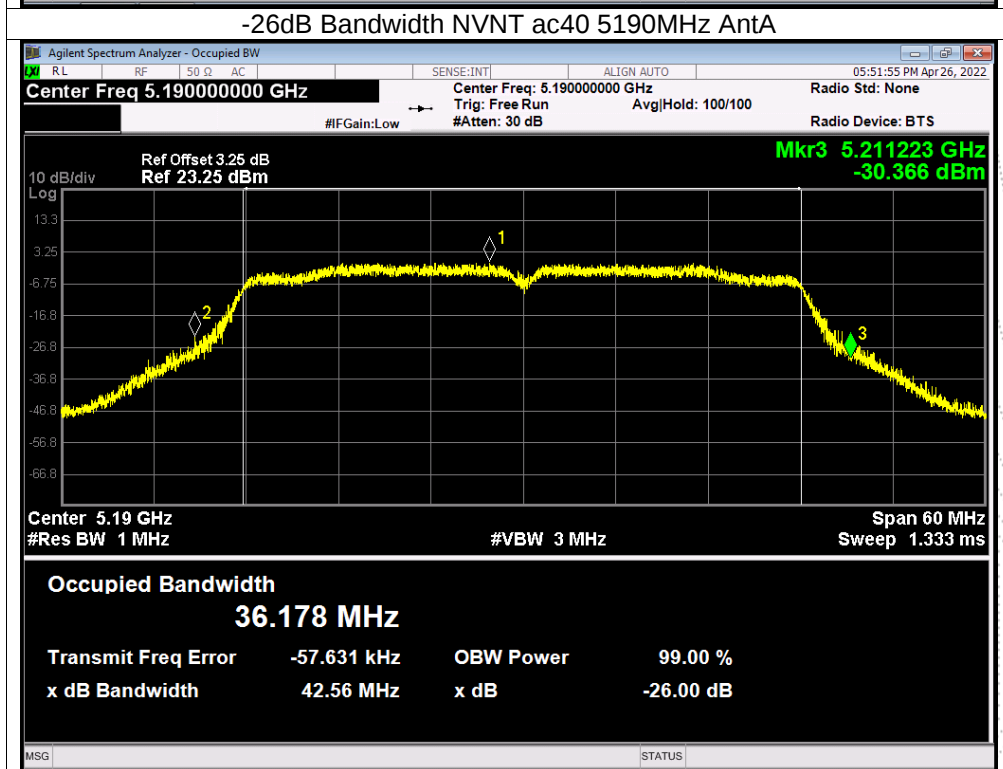
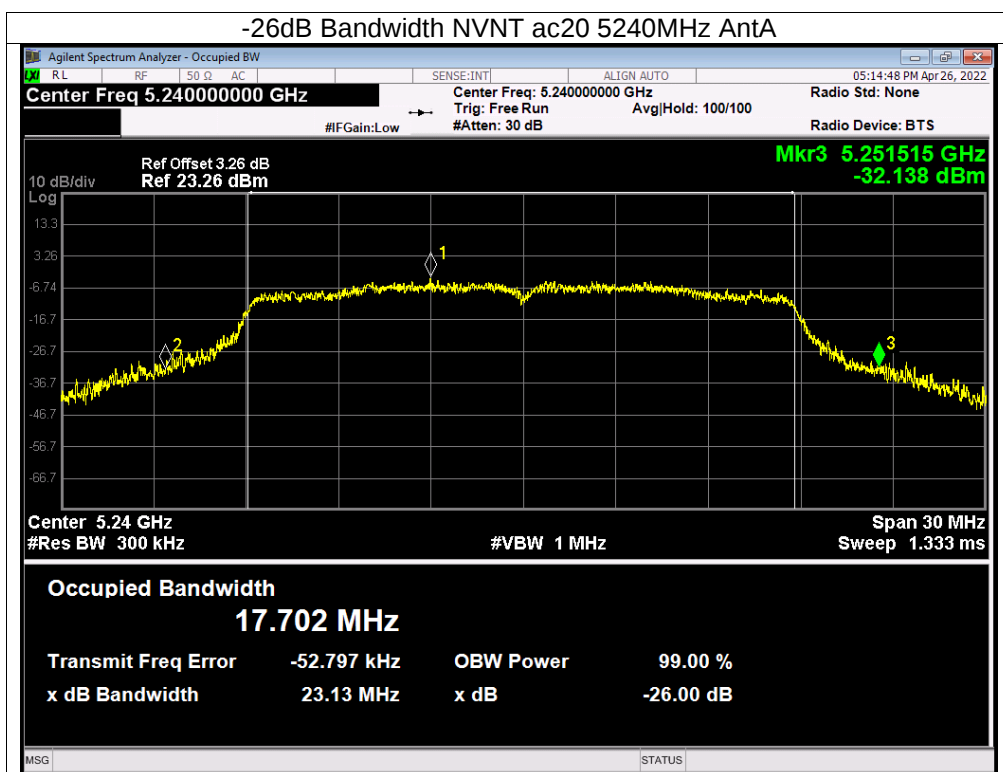


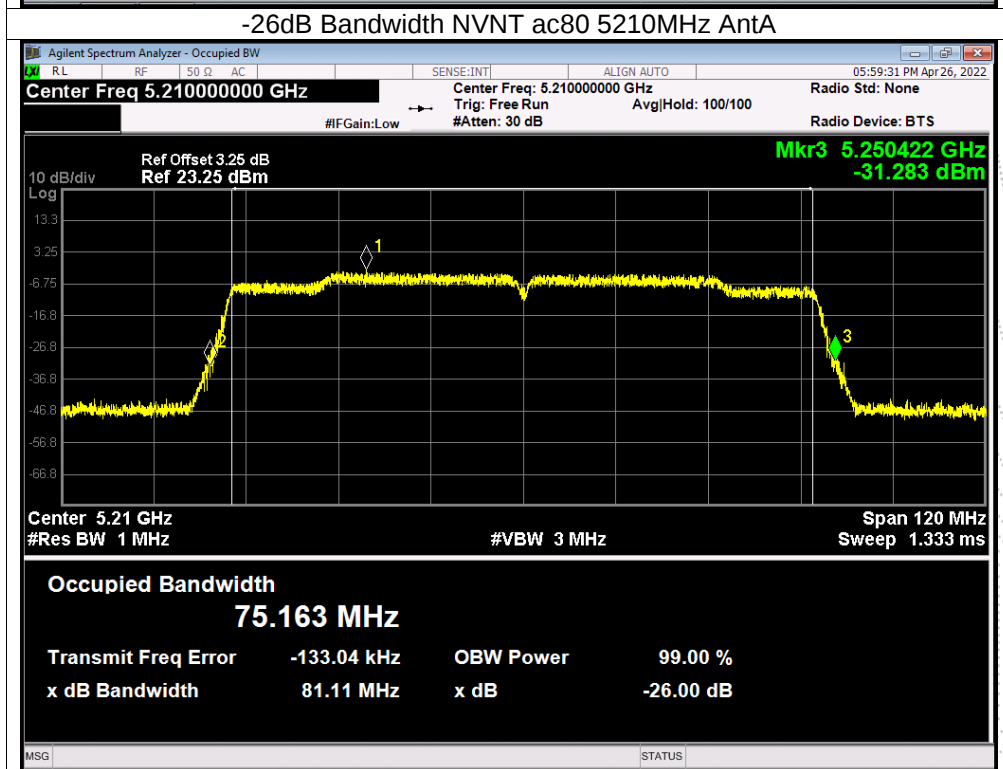
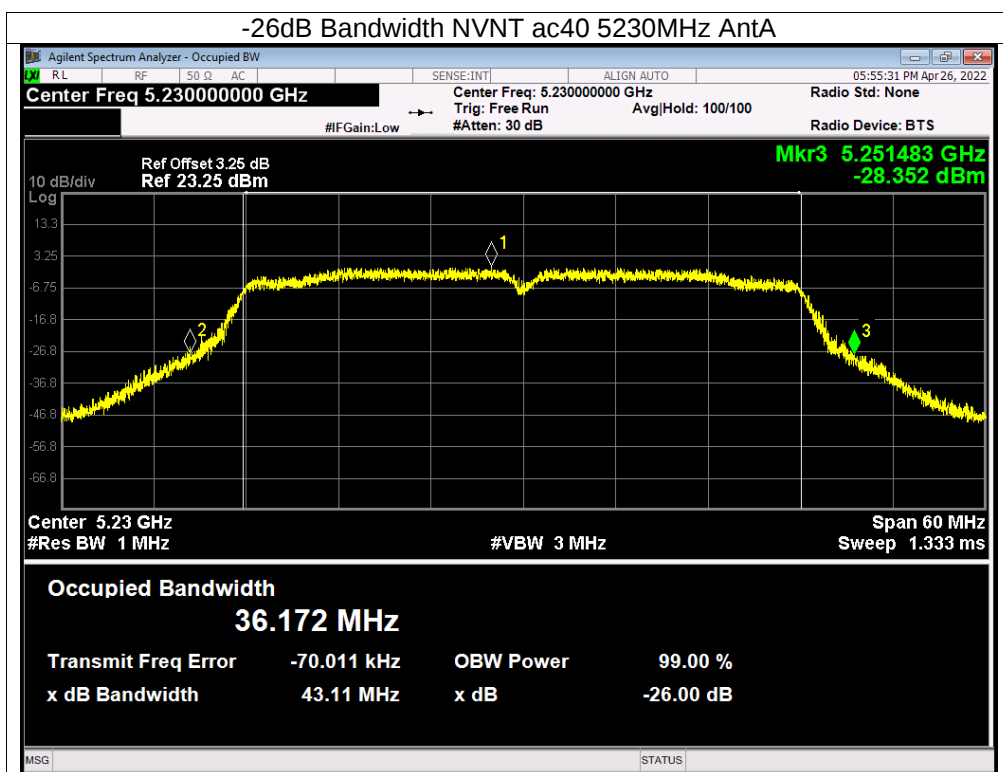








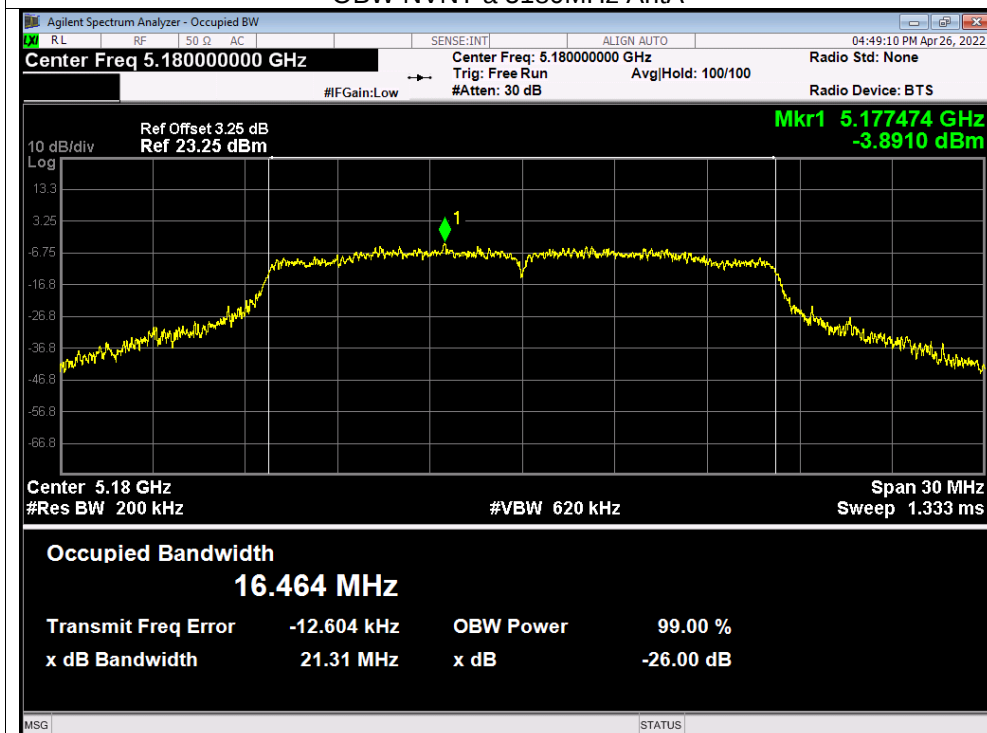




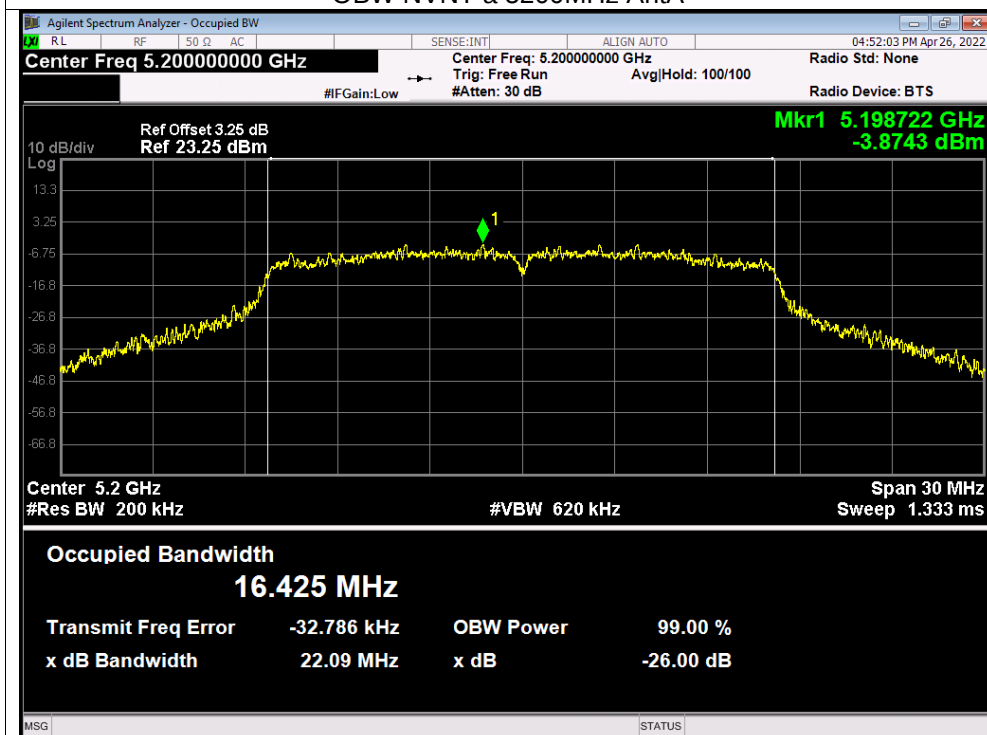
99% OBW

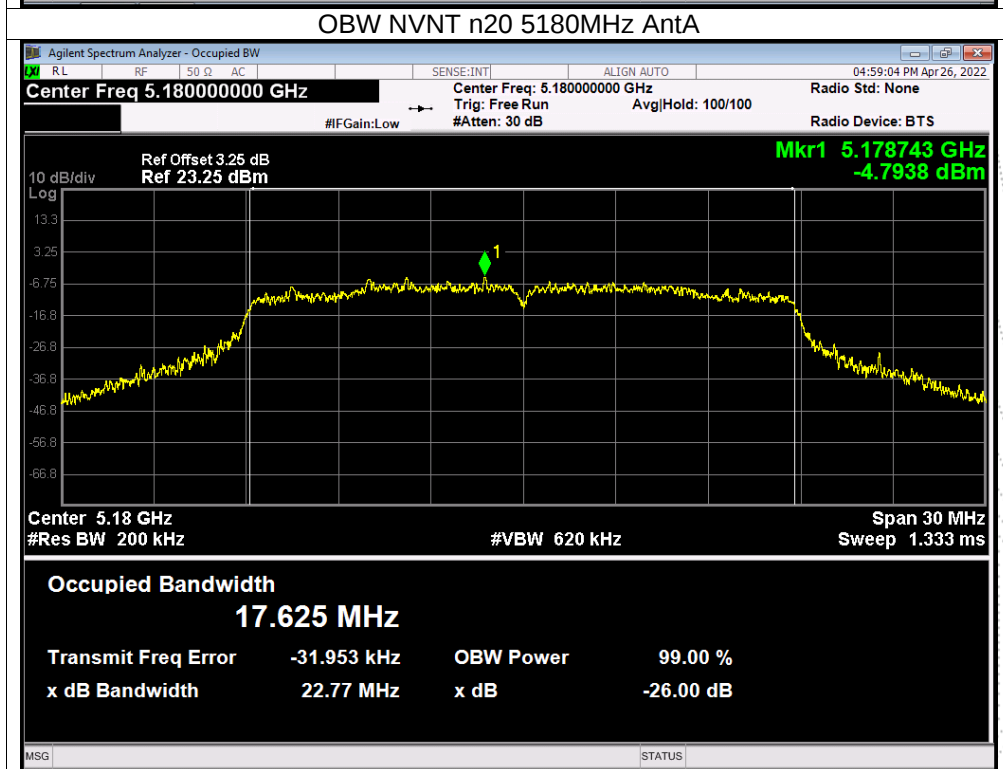
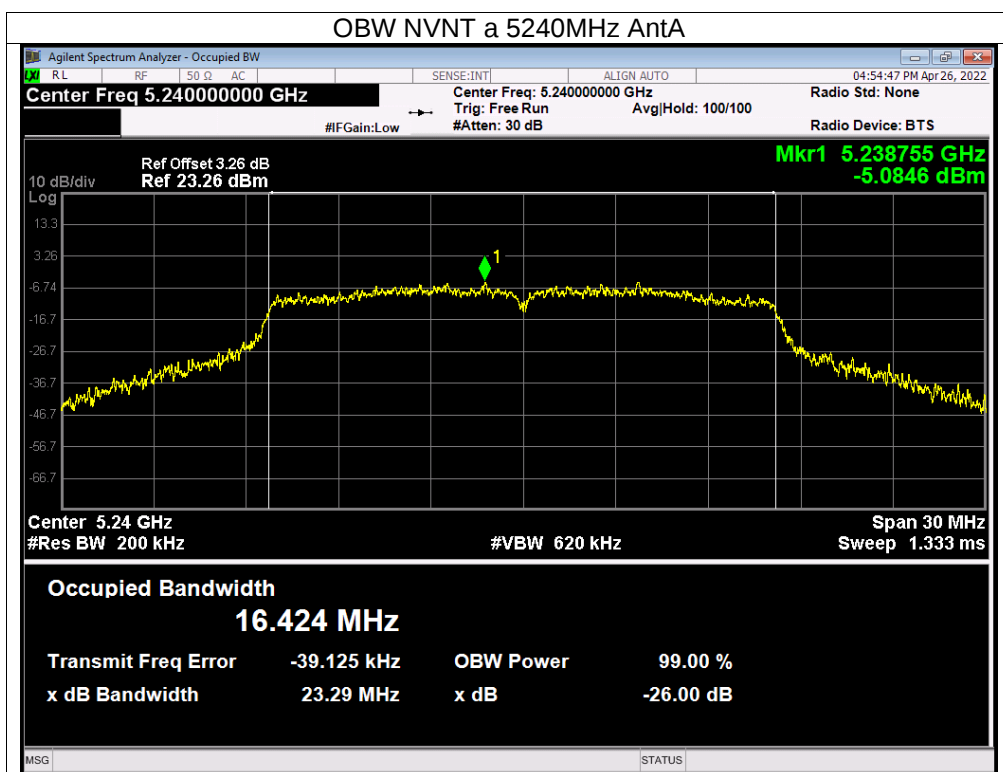
Test Graphs

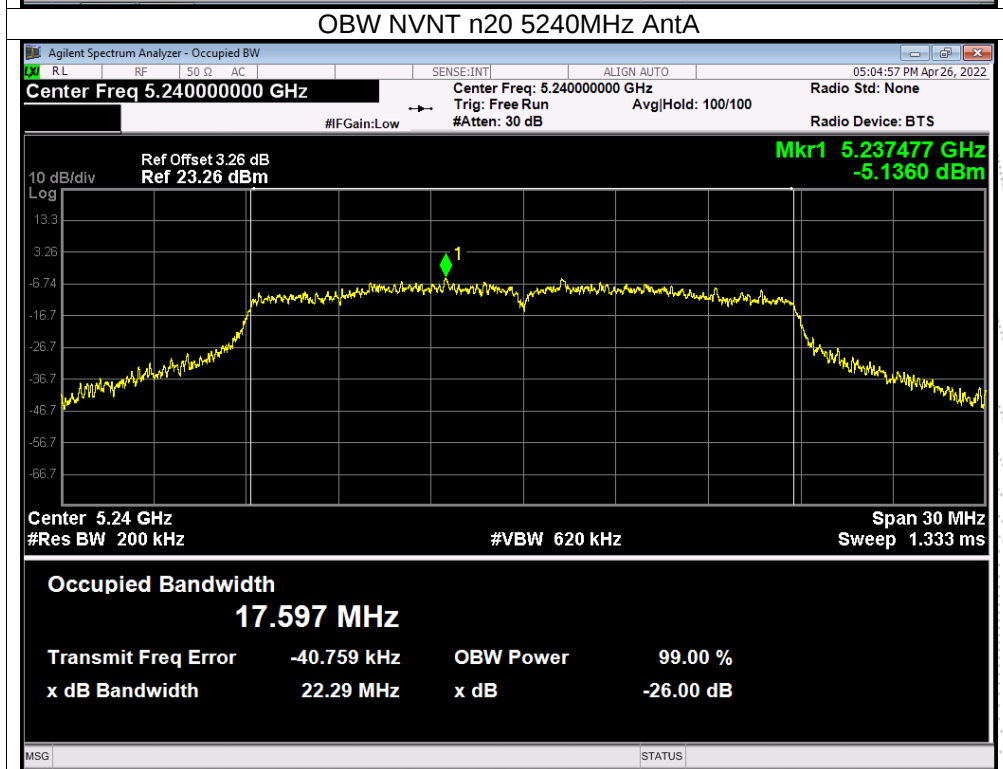
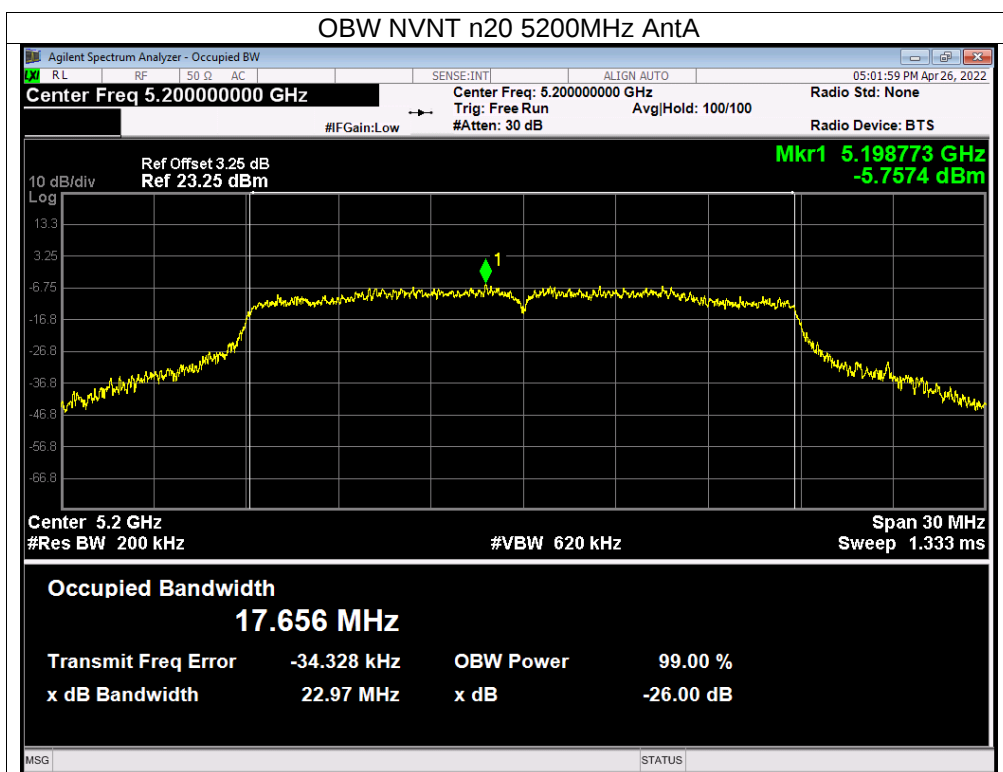
OBW NVNT a 5180MHz AntA

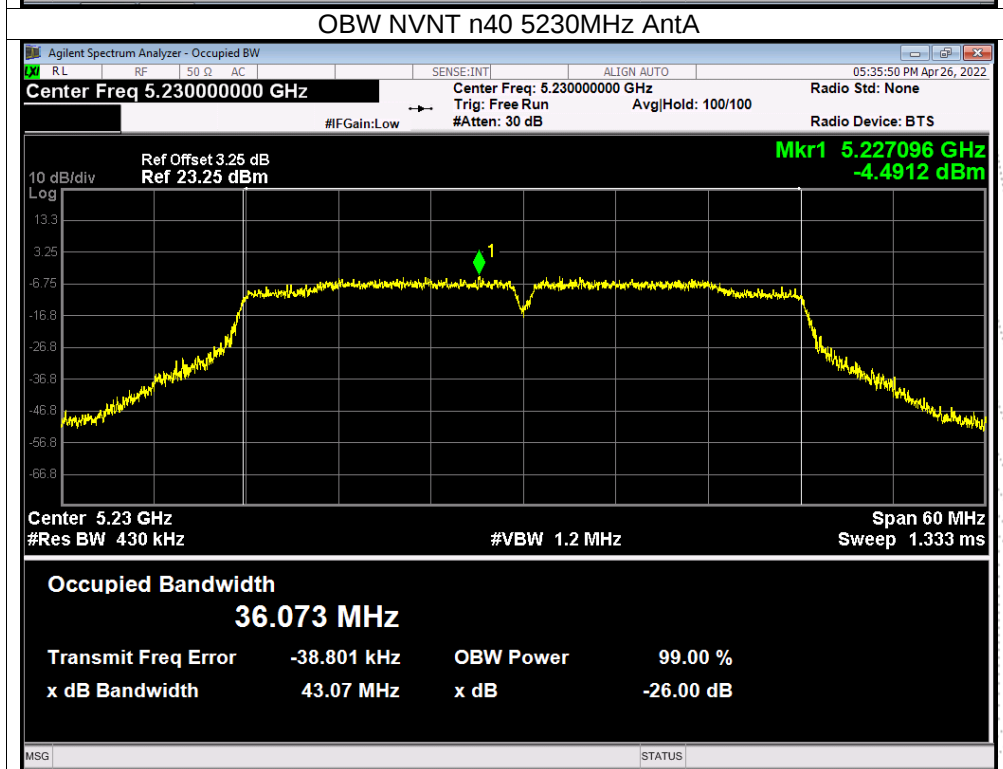
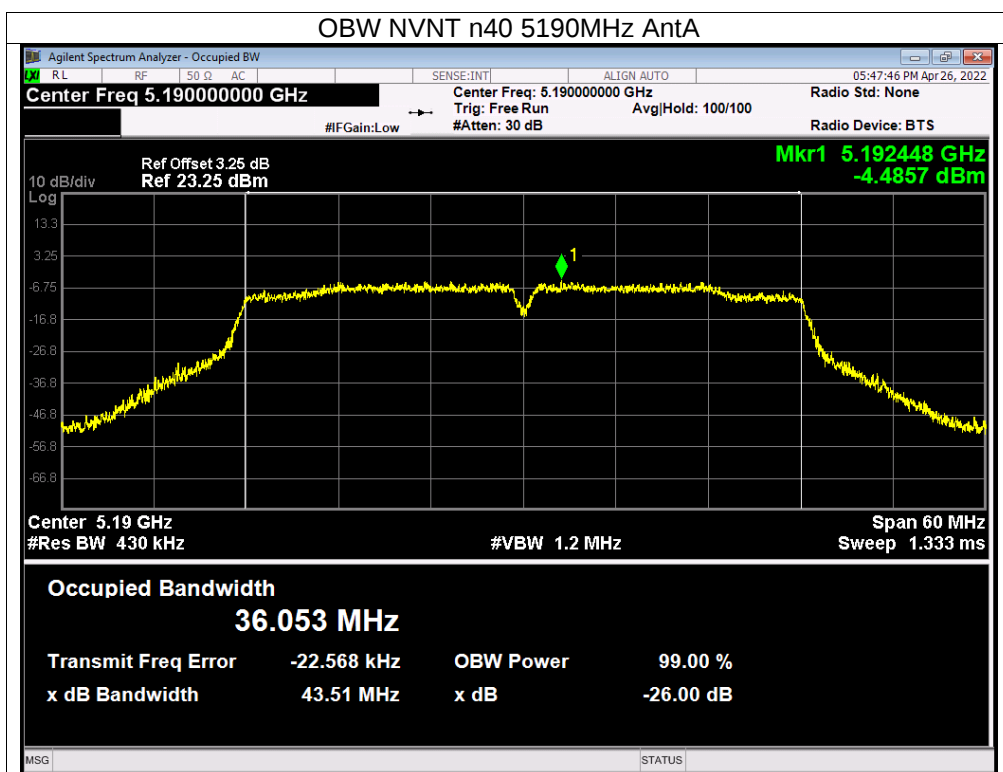


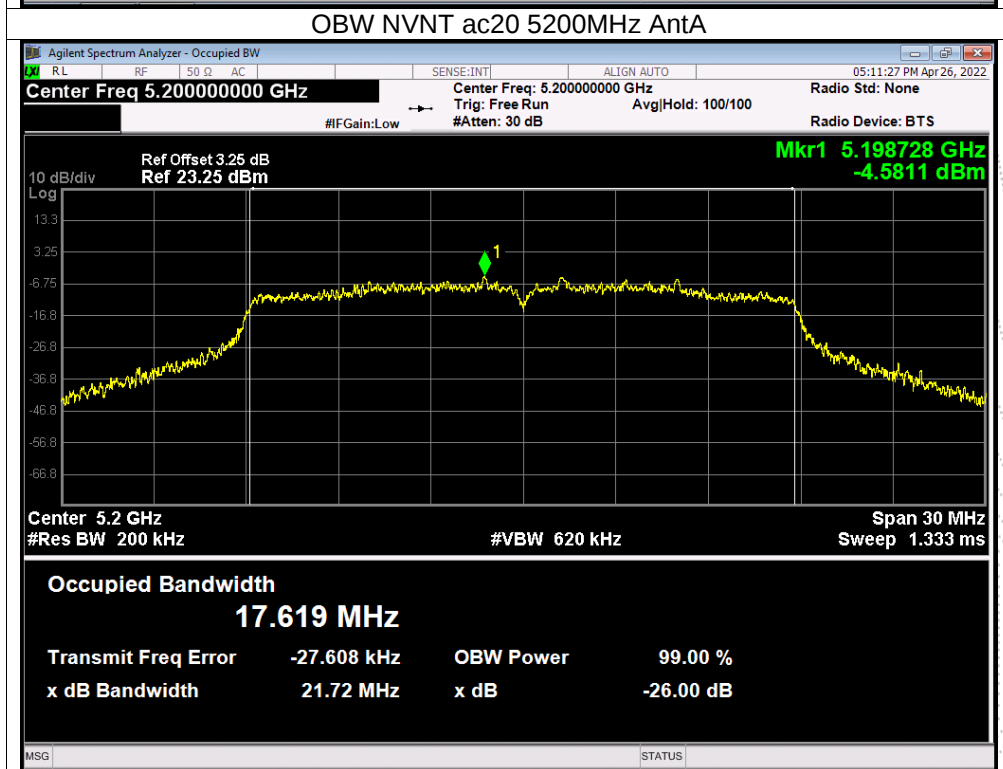
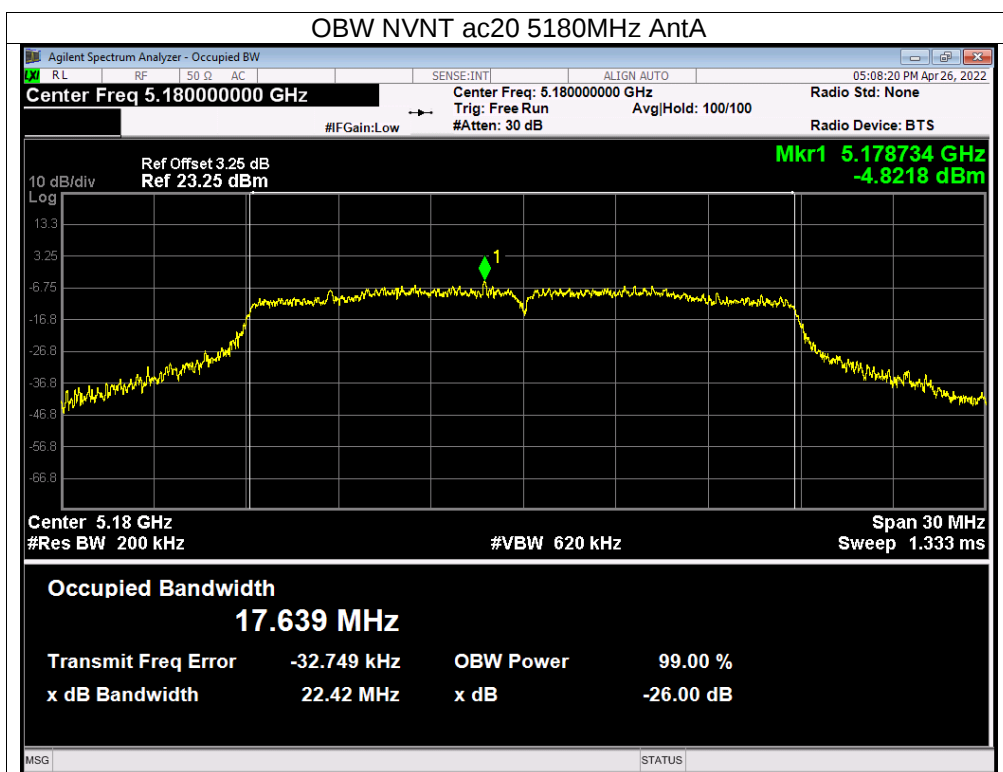
OBW NVNT a 5200MHz AntA

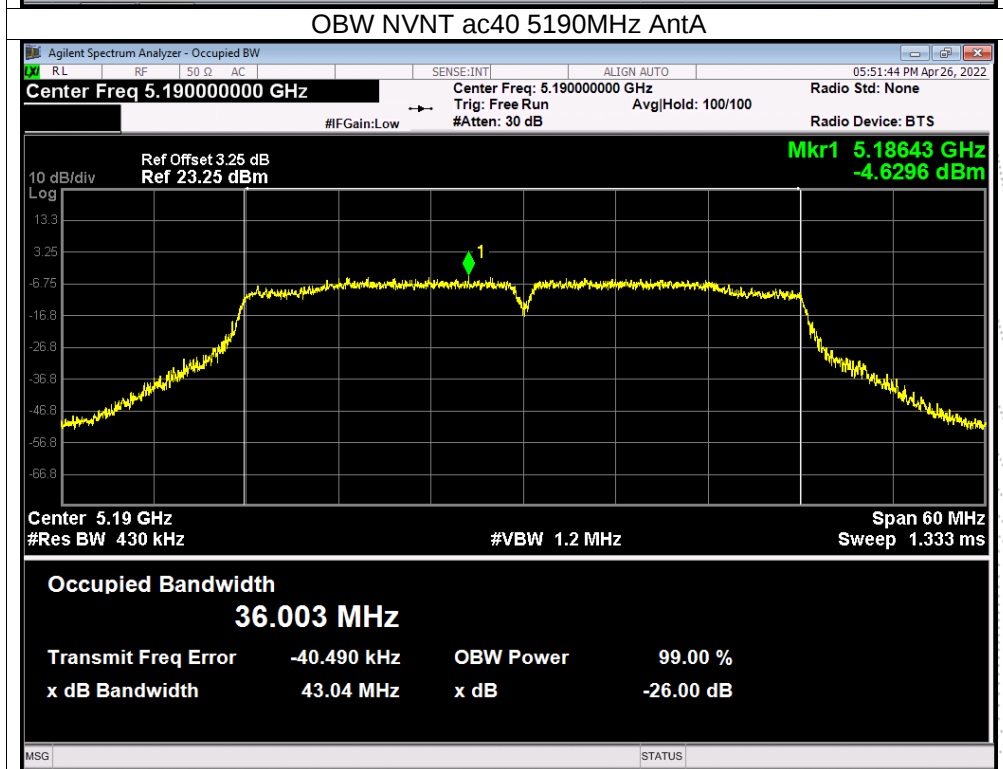
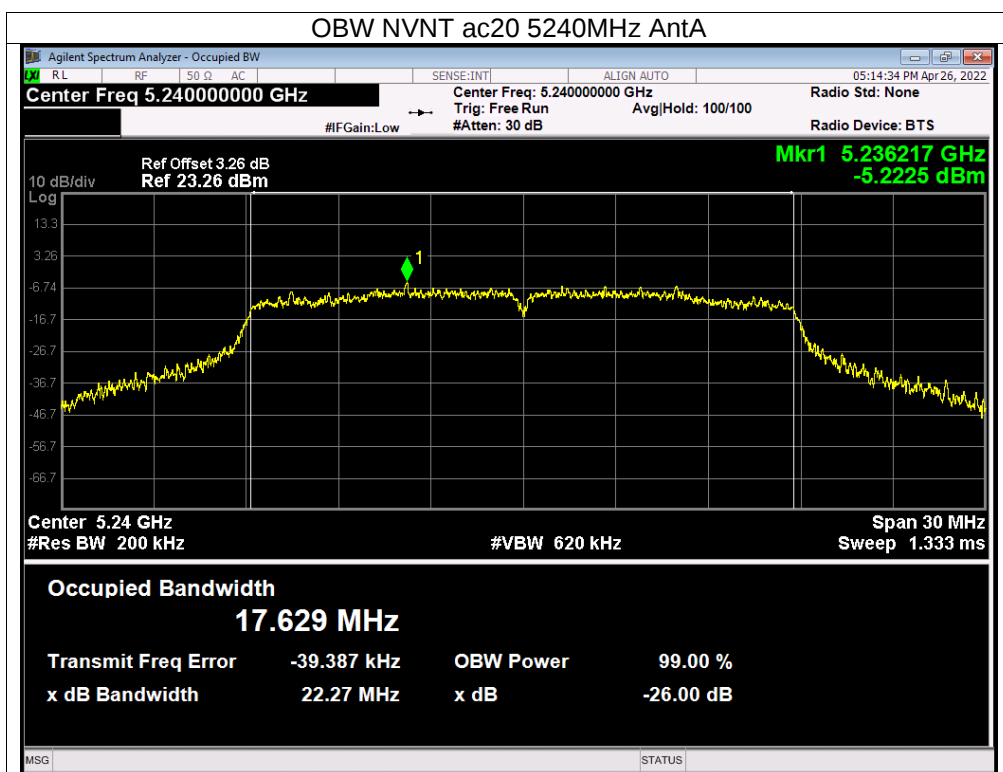


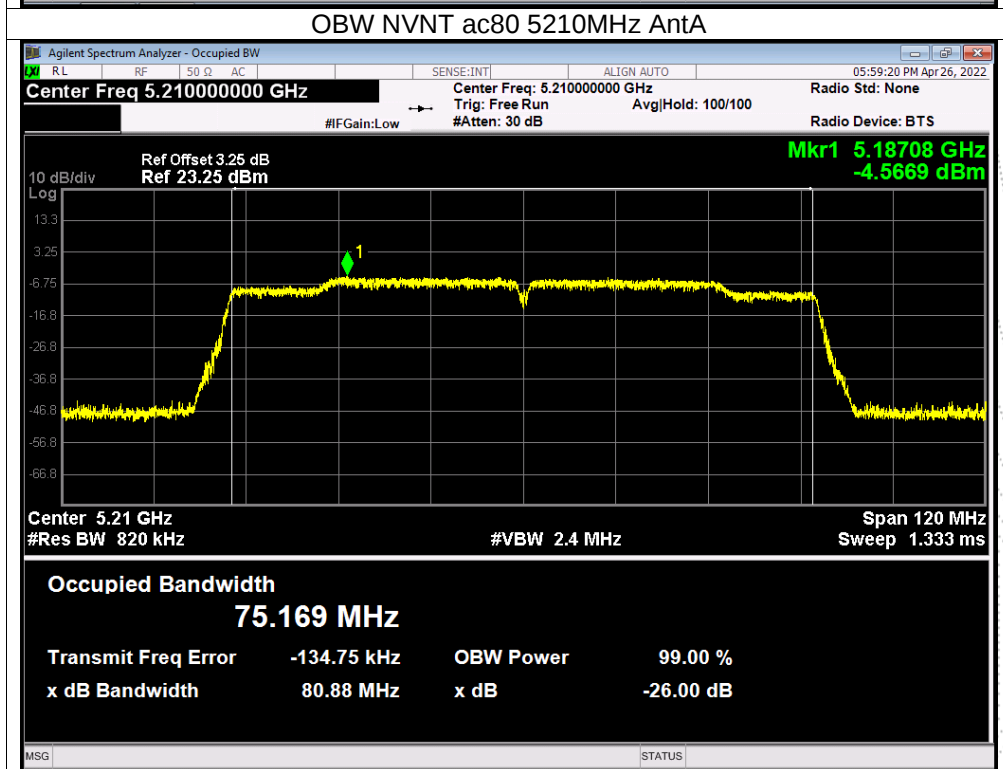
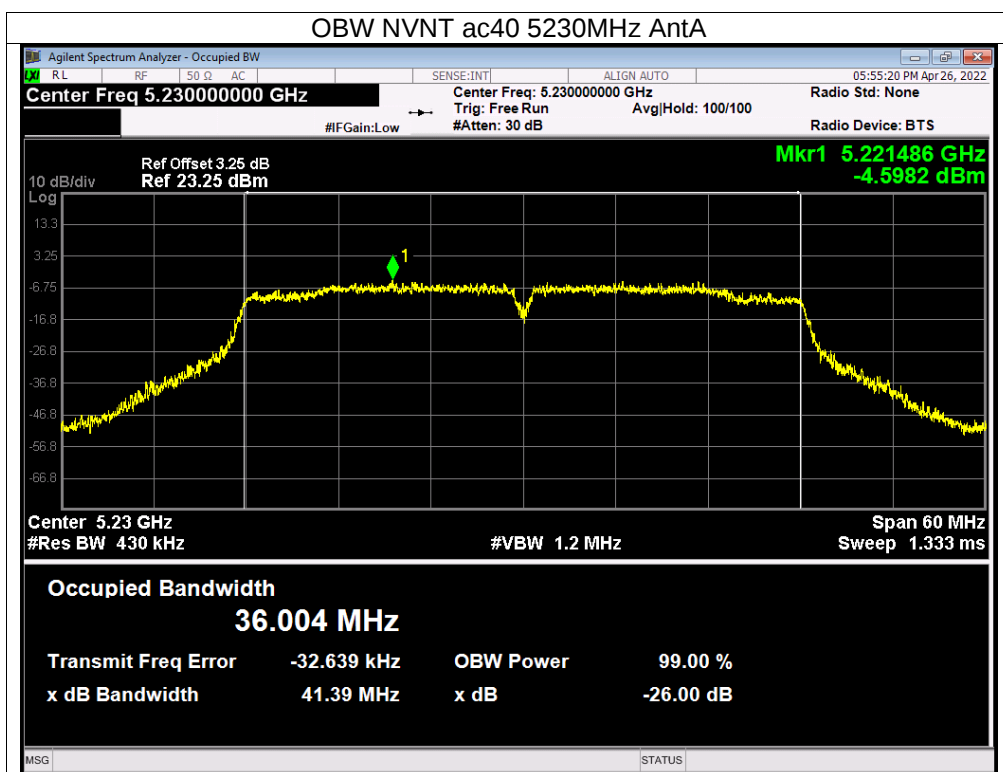












Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 7.6V
Test Mode :	TX Frequency U-NII-3(5745-5825MHz)		

Mode	Channel	Frequency (MHz)	99% bandwidth(MHz)	6dB bandwidth (MHz)	Limit MHz	Result
			ANT A	ANT A		
802.11a	CH149	5745	16.424	15.264	≥500	Pass
	CH157	5785	16.436	13.808	≥500	Pass
	CH165	5825	16.419	12.808	≥500	Pass
802.11 n20	CH149	5745	17.632	16.924	≥500	Pass
	CH157	5785	17.62	15.008	≥500	Pass
	CH165	5825	17.637	15.054	≥500	Pass
802.11 n40	CH151	5755	36.026	33.743	≥500	Pass
	CH159	5795	36.048	34.992	≥500	Pass
802.11 ac20	CH149	5745	17.632	14.904	≥500	Pass
	CH157	5785	17.62	15.043	≥500	Pass
	CH165	5825	17.602	15.031	≥500	Pass
802.11 ac40	CH151	5755	36.014	33.834	≥500	Pass
	CH159	5795	36.053	34.987	≥500	Pass
802.11 AC80	CH155	5775	75.162	75.069	≥500	Pass

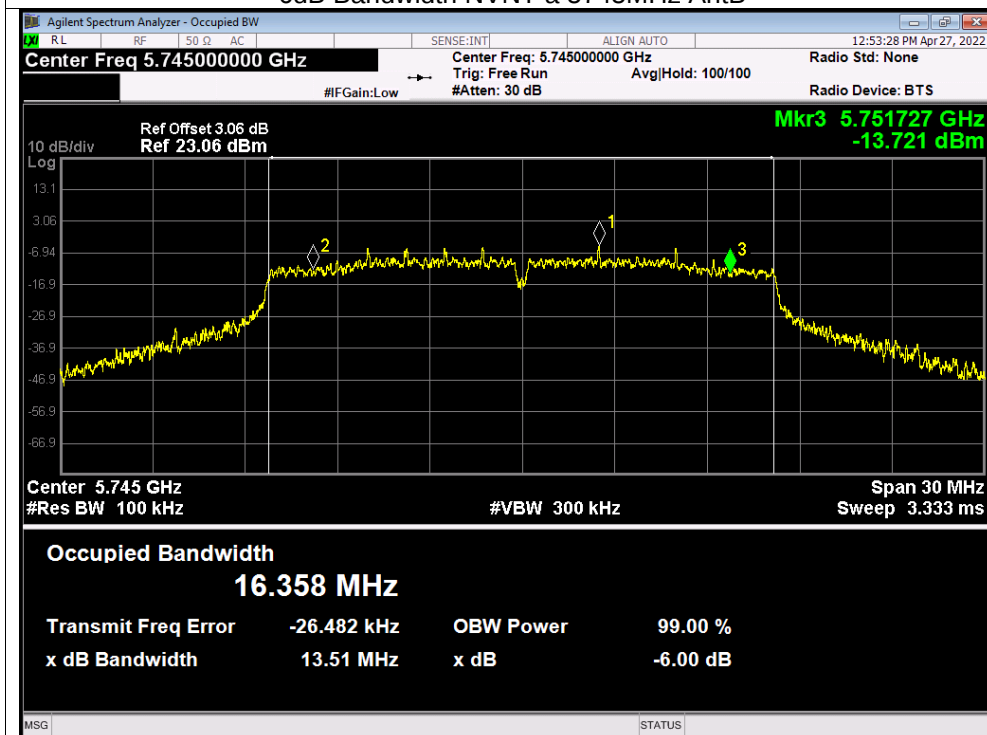
Mode	Channel	Frequency (MHz)	99% bandwidth(MHz)	6dB bandwidth (MHz)	Limit MHz	Result
			ANT B	ANT B		
802.11a	CH149	5745	16.468	13.508	≥500	Pass
	CH157	5785	16.419	11.302	≥500	Pass
	CH165	5825	16.459	14.16	≥500	Pass
802.11 n20	CH149	5745	17.64	13.552	≥500	Pass
	CH157	5785	17.602	13.81	≥500	Pass
	CH165	5825	17.627	13.874	≥500	Pass
802.11 n40	CH151	5755	36.068	35.063	≥500	Pass
	CH159	5795	36.081	35.065	≥500	Pass
802.11 ac20	CH149	5745	17.607	14.948	≥500	Pass
	CH157	5785	17.629	14.941	≥500	Pass
	CH165	5825	17.621	15.129	≥500	Pass
802.11 ac40	CH151	5755	36.034	33.85	≥500	Pass
	CH159	5795	36.018	35.044	≥500	Pass
802.11 AC80	CH155	5775	75.228	74.975	≥500	Pass

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

-6dB Bandwidth

Test Graphs

-6dB Bandwidth NVNT a 5745MHz AntB



-6dB Bandwidth NVNT a 5785MHz AntB

