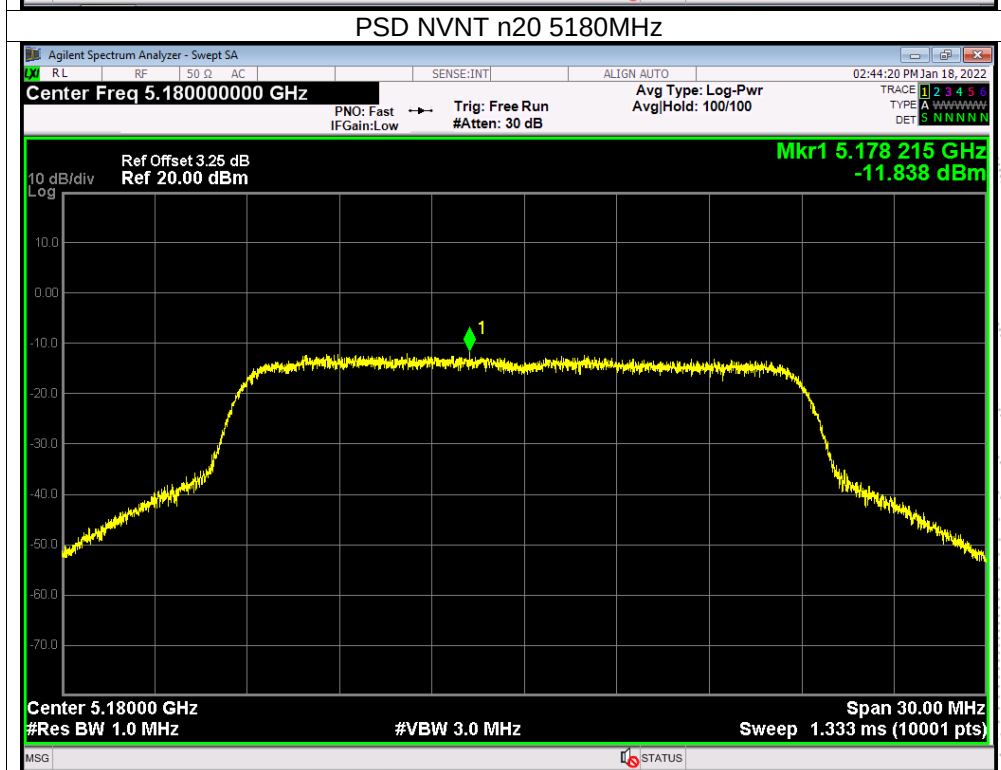
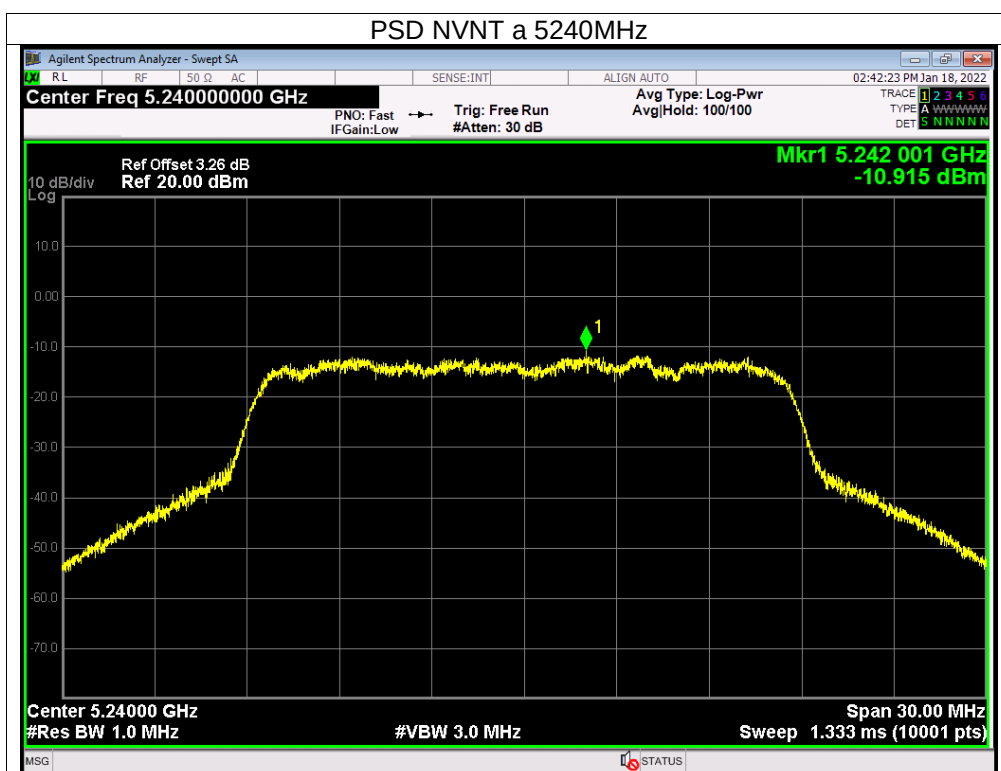
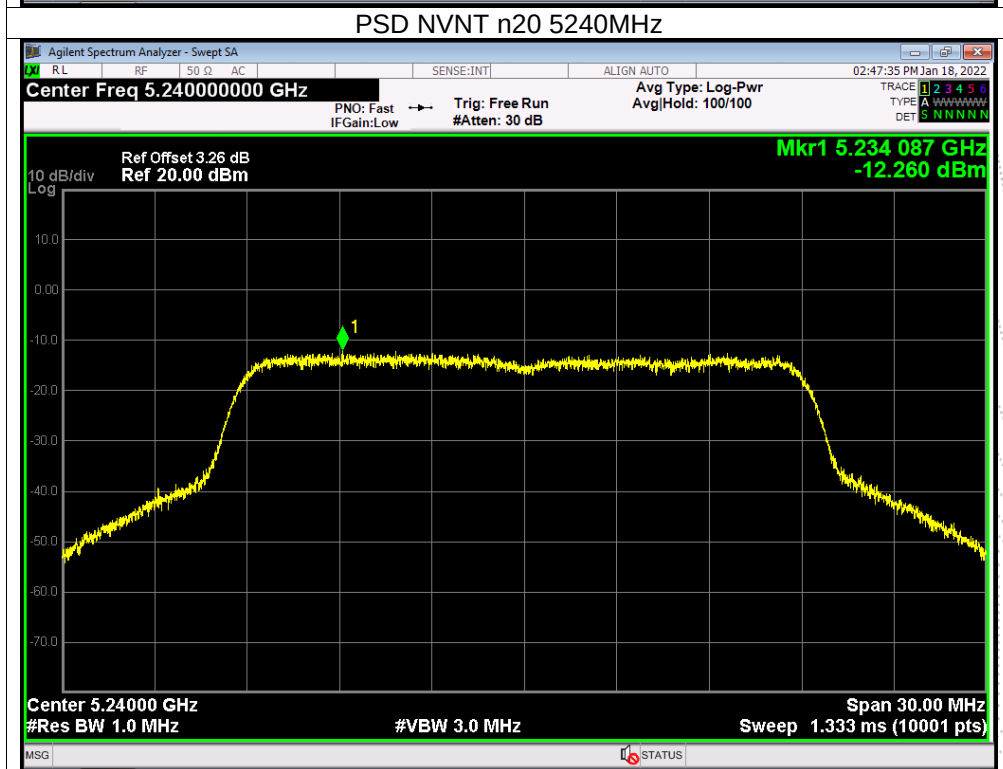
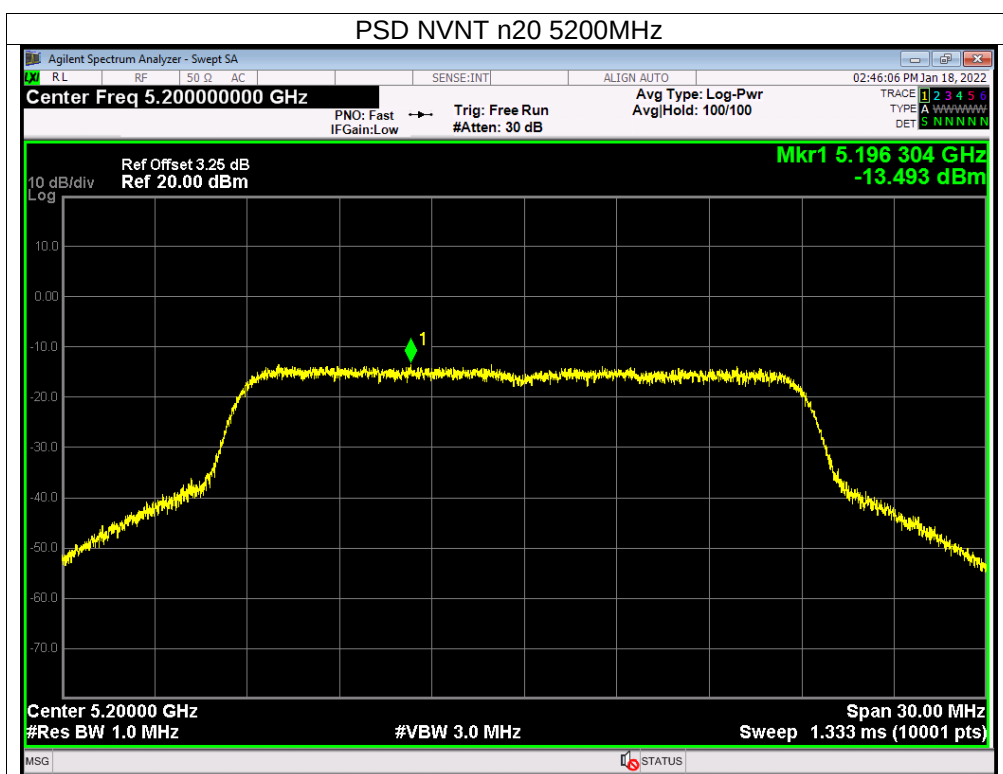
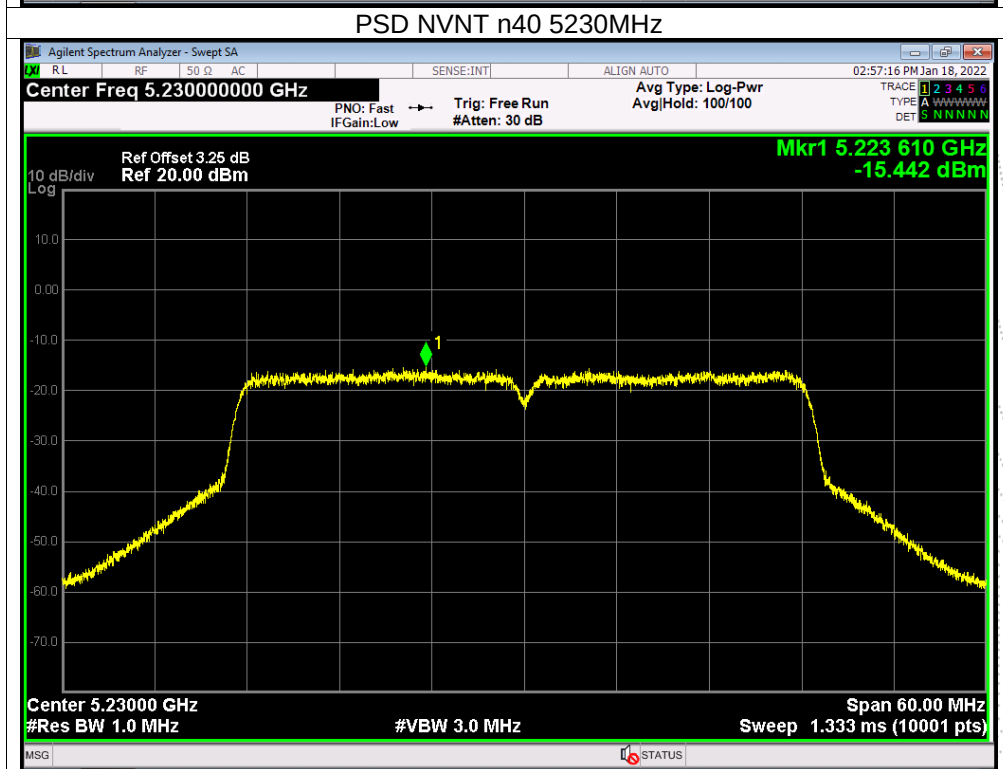
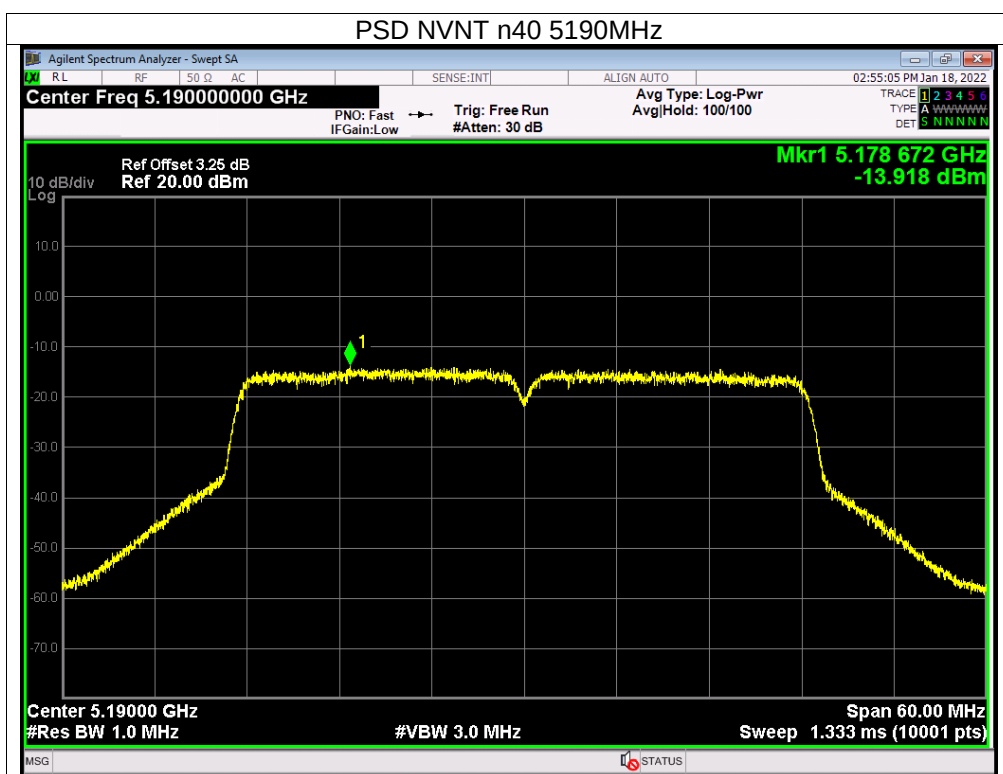
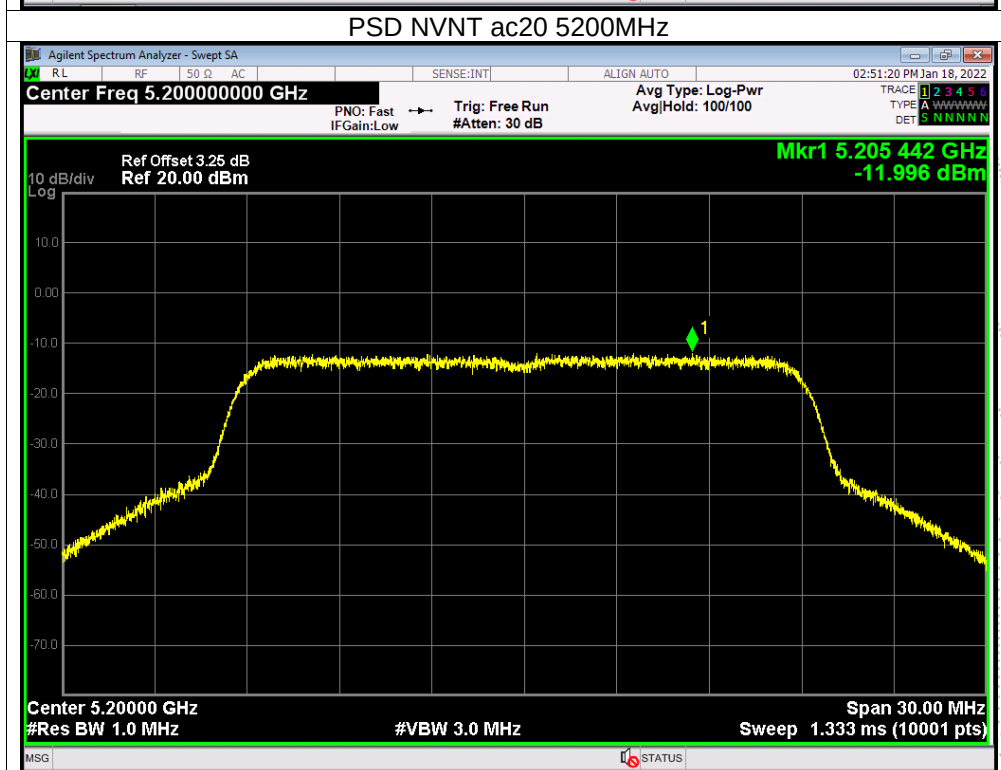
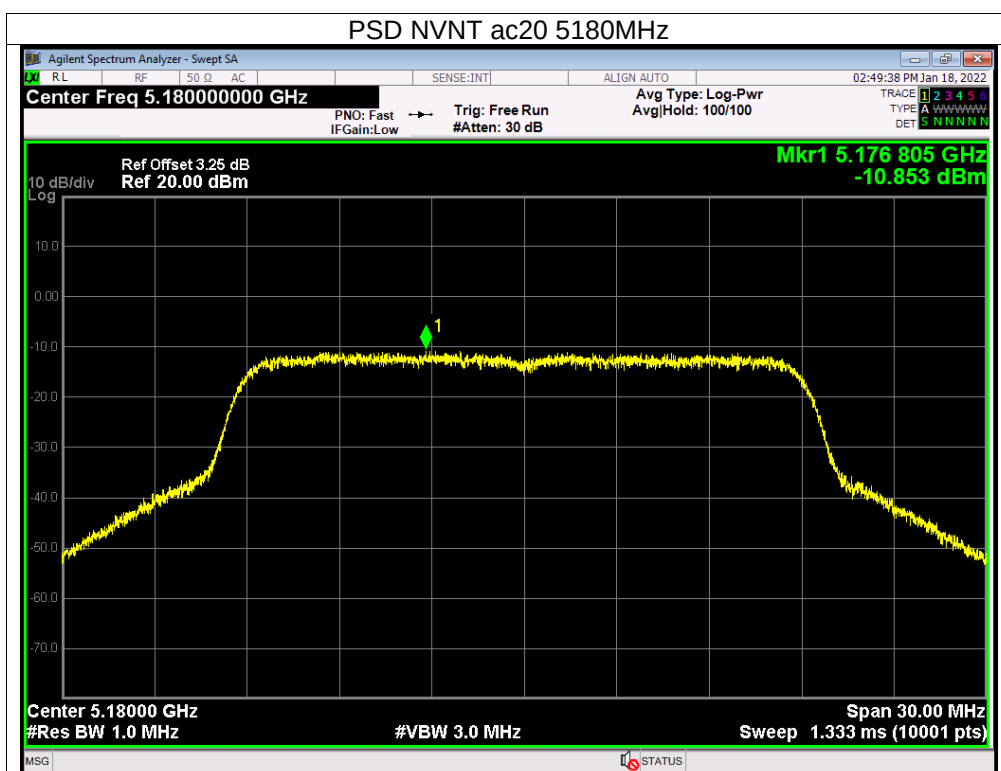


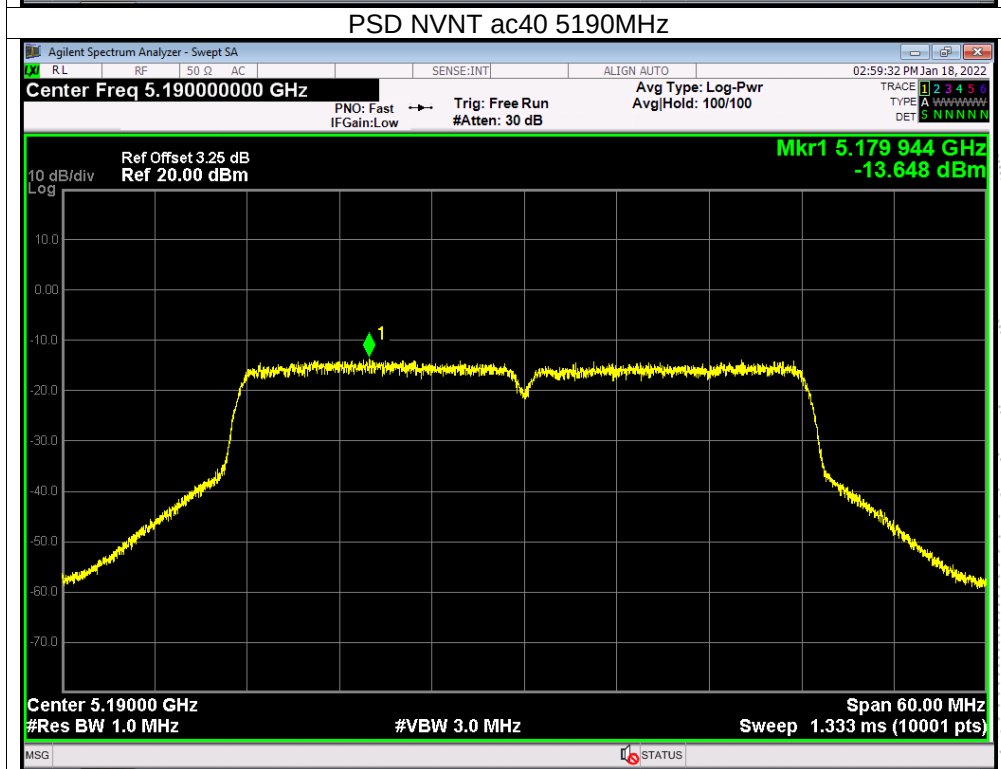
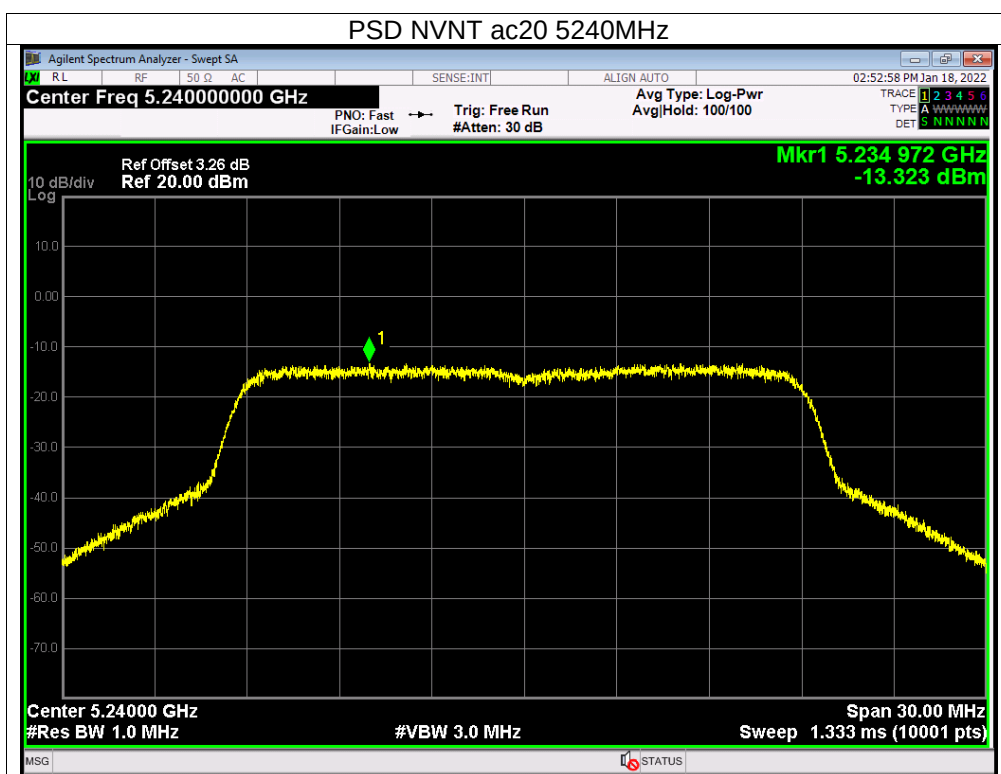


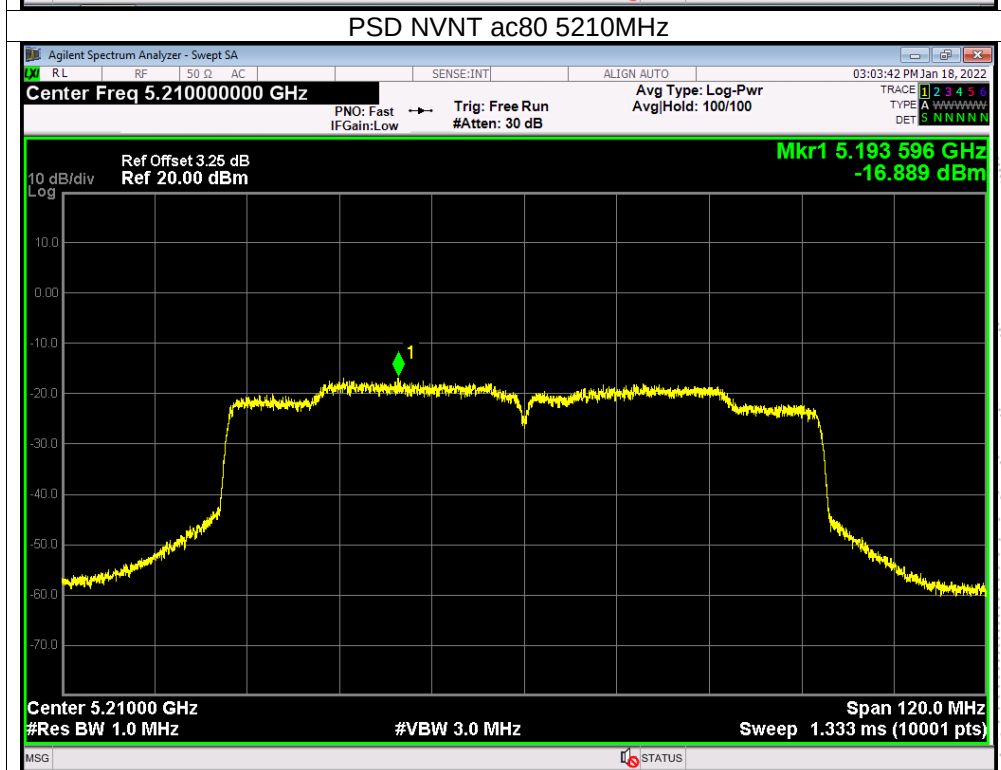
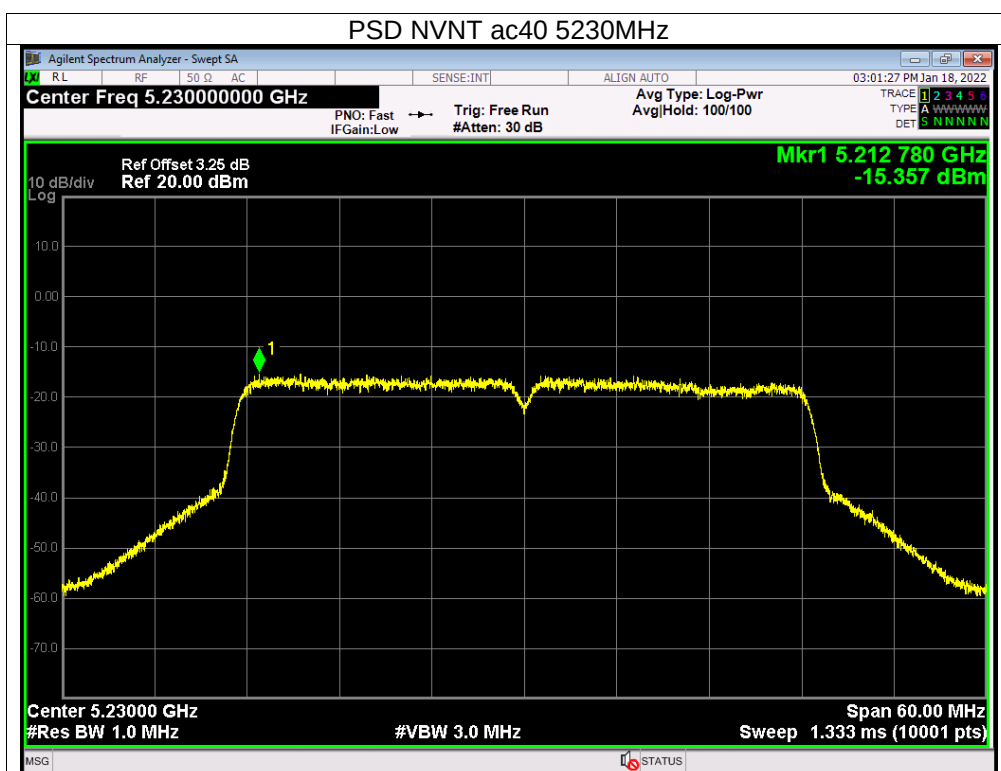






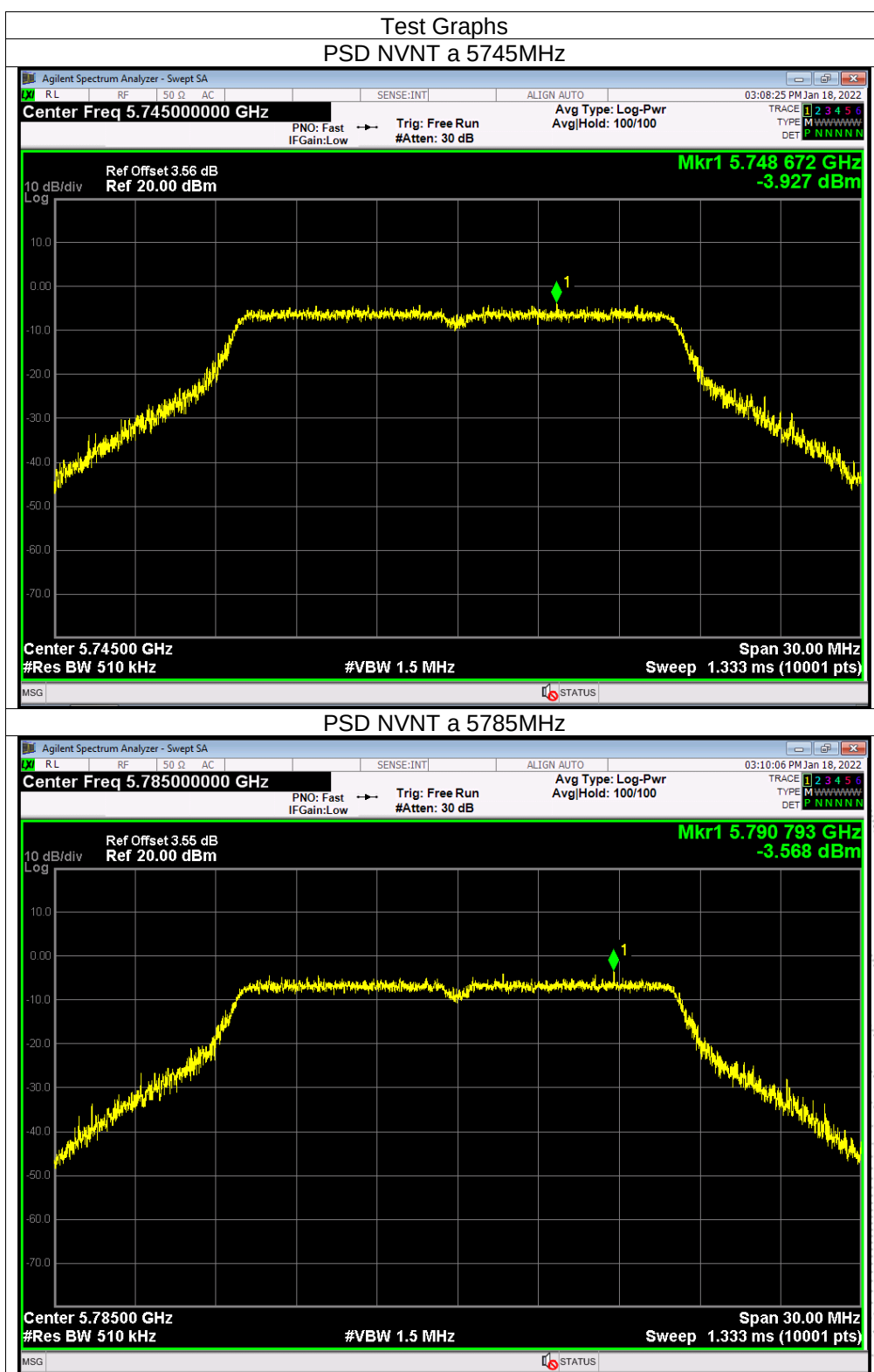


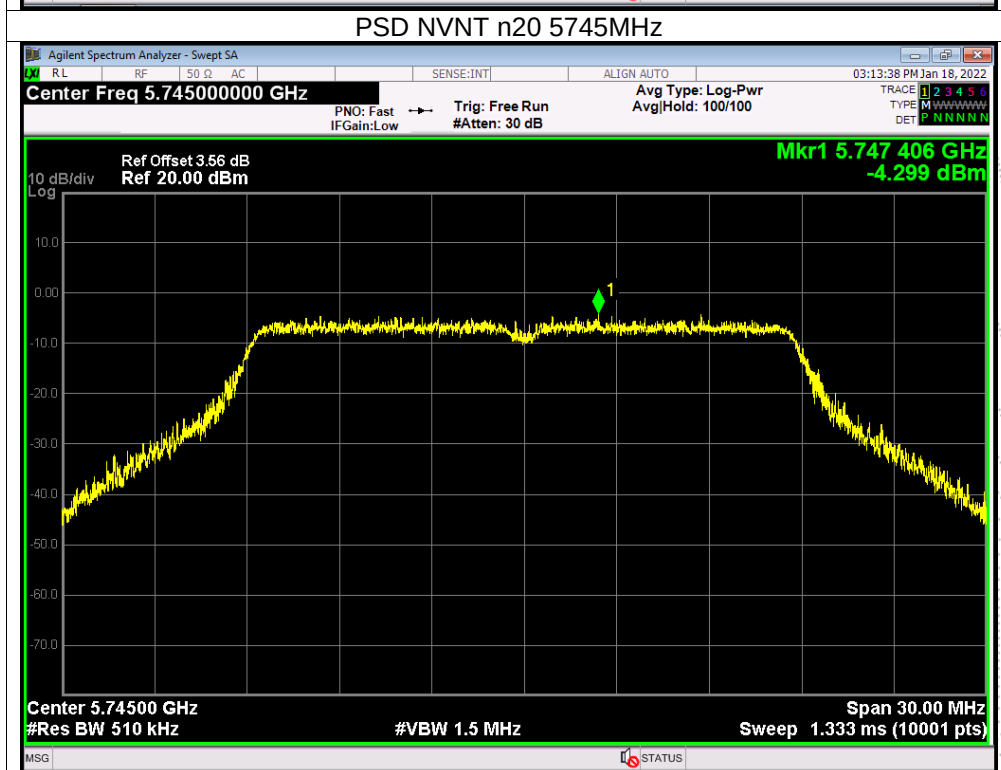
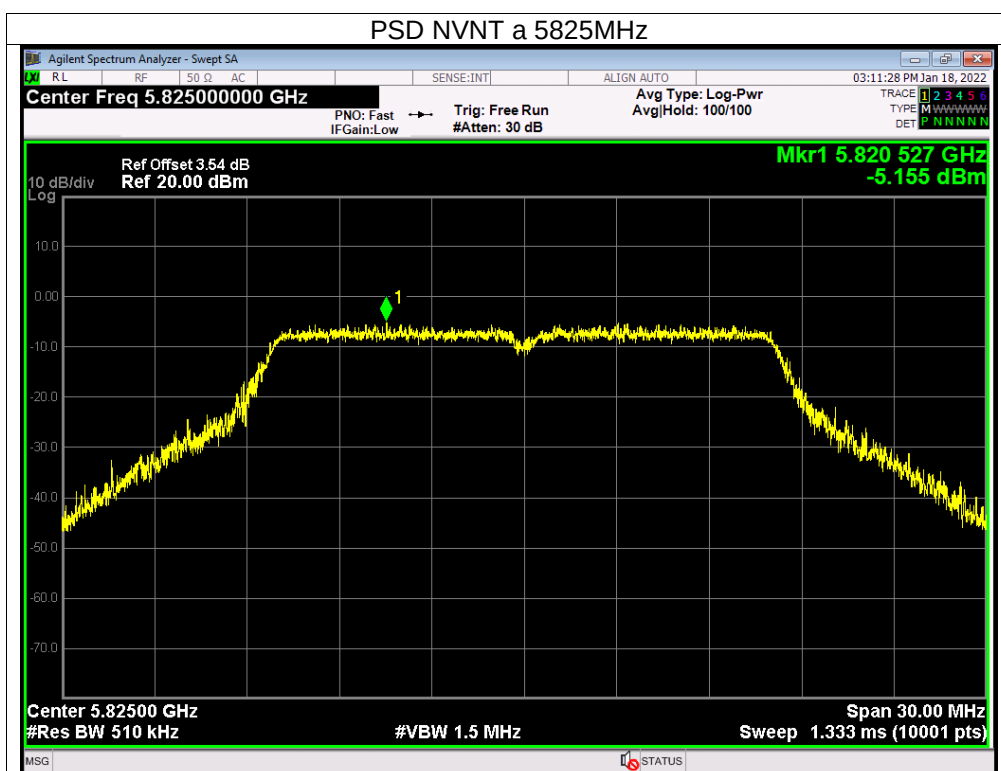


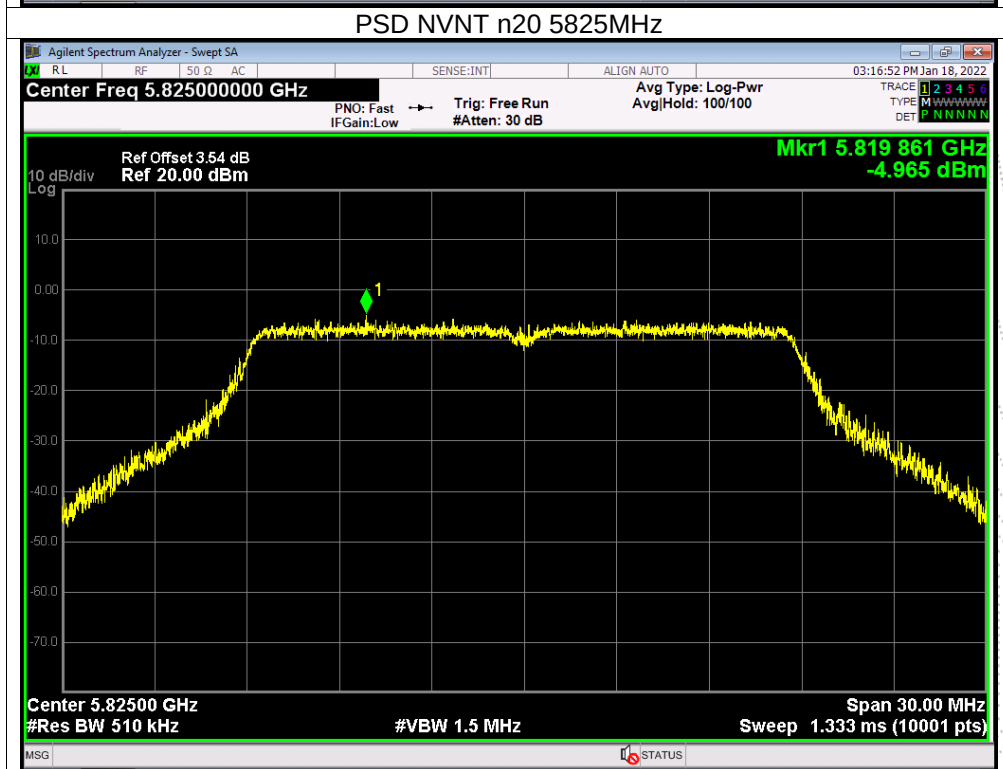
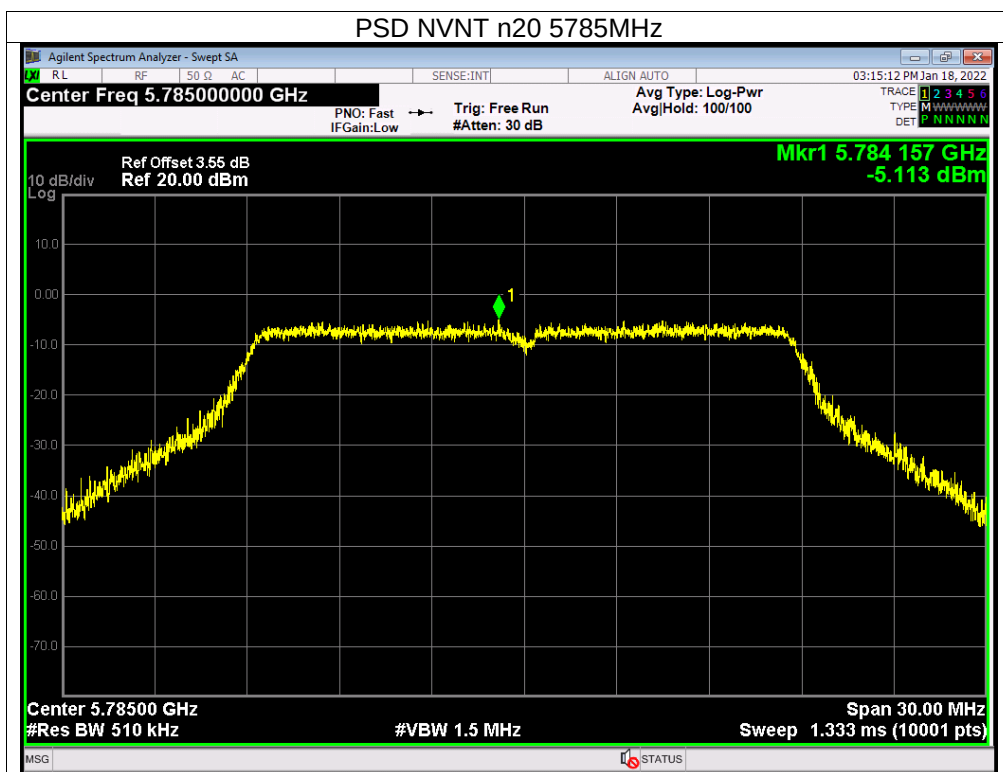


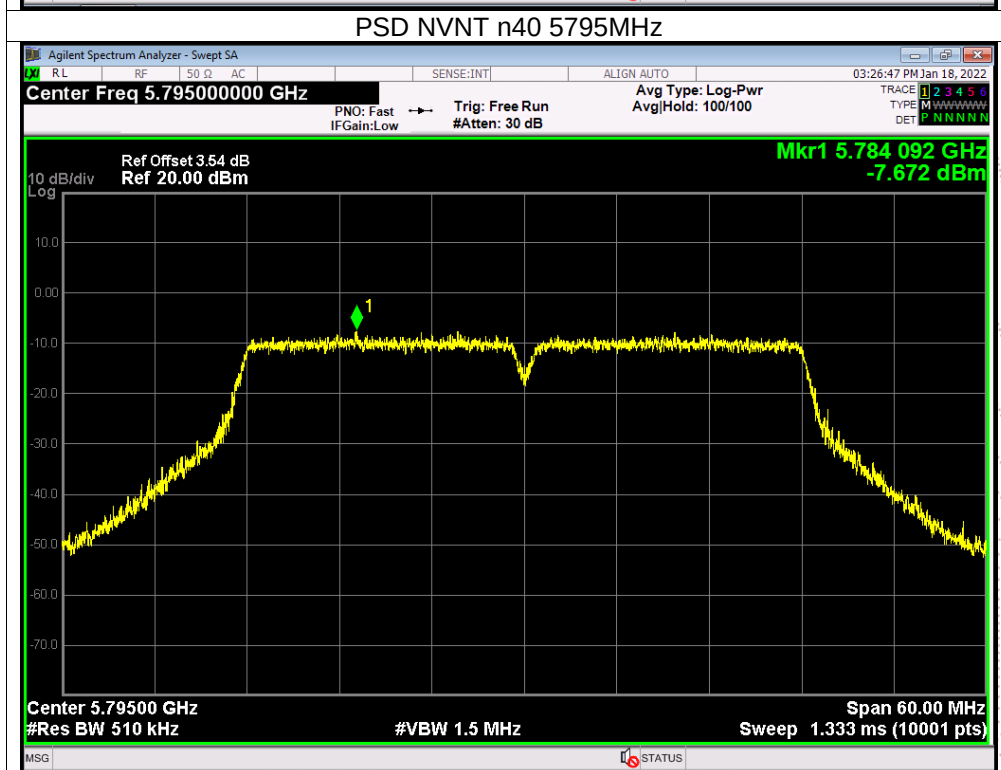
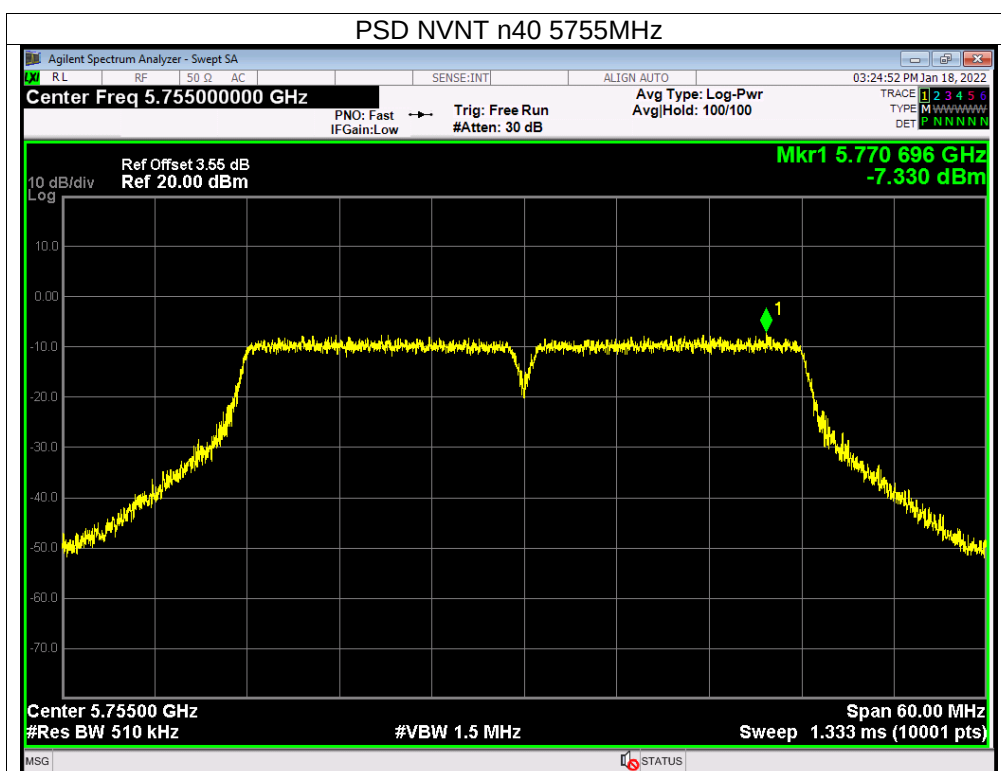
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 7.6V
Test Mode :	TX Frequency U-NII-3 (5745-5825MHz)		

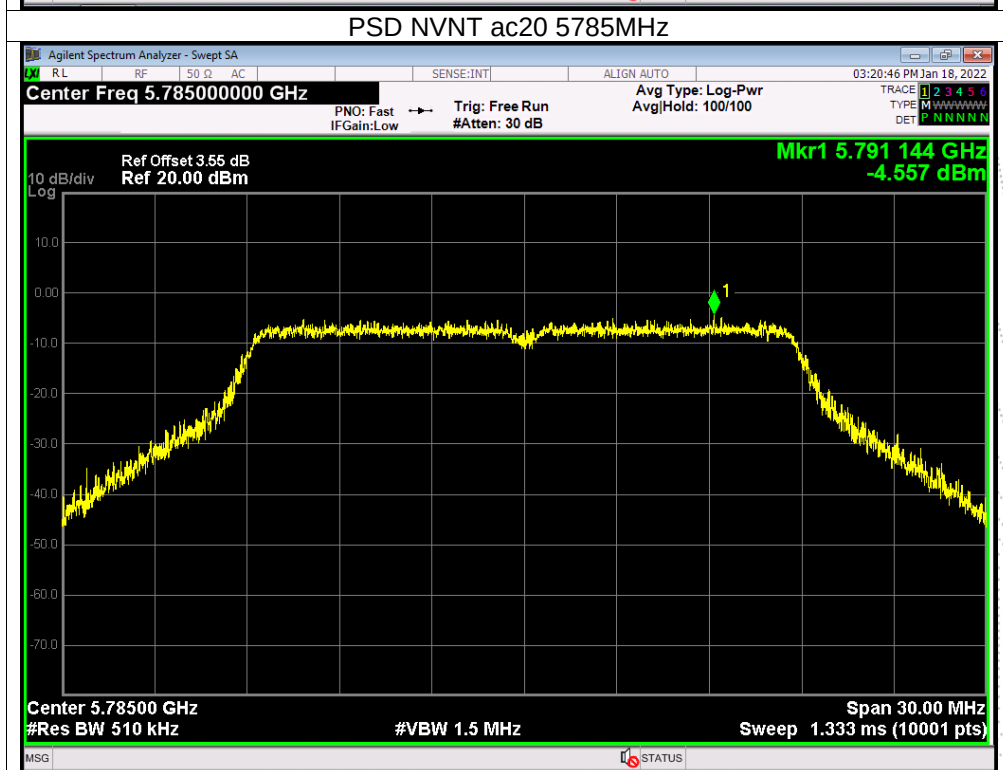
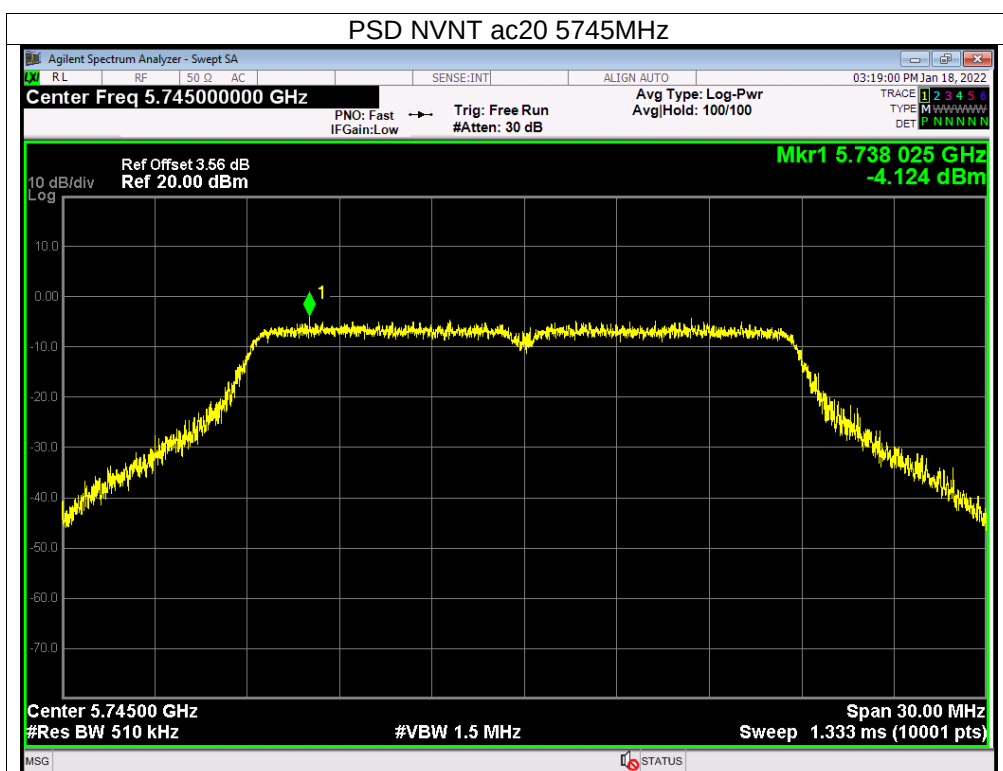
Mode	Frequency	Measured Power Density (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11 a	5745 MHz	-3.93	30	PASS
	5785 MHz	-3.57	30	PASS
	5825 MHz	-5.16	30	PASS
802.11 n20	5745 MHz	-4.3	30	PASS
	5785 MHz	-5.11	30	PASS
	5825 MHz	-4.97	30	PASS
802.11 n40	5755 MHz	-7.33	30	PASS
	5795 MHz	-7.67	30	PASS
802.11 AC20	5745 MHz	-4.12	30	PASS
	5785 MHz	-4.56	30	PASS
	5825 MHz	-5.5	30	PASS
802.11 AC40	5755 MHz	-6.09	30	PASS
	5795 MHz	-7.8	30	PASS
802.11 AC80	5775 MHz	-11.26	30	PASS

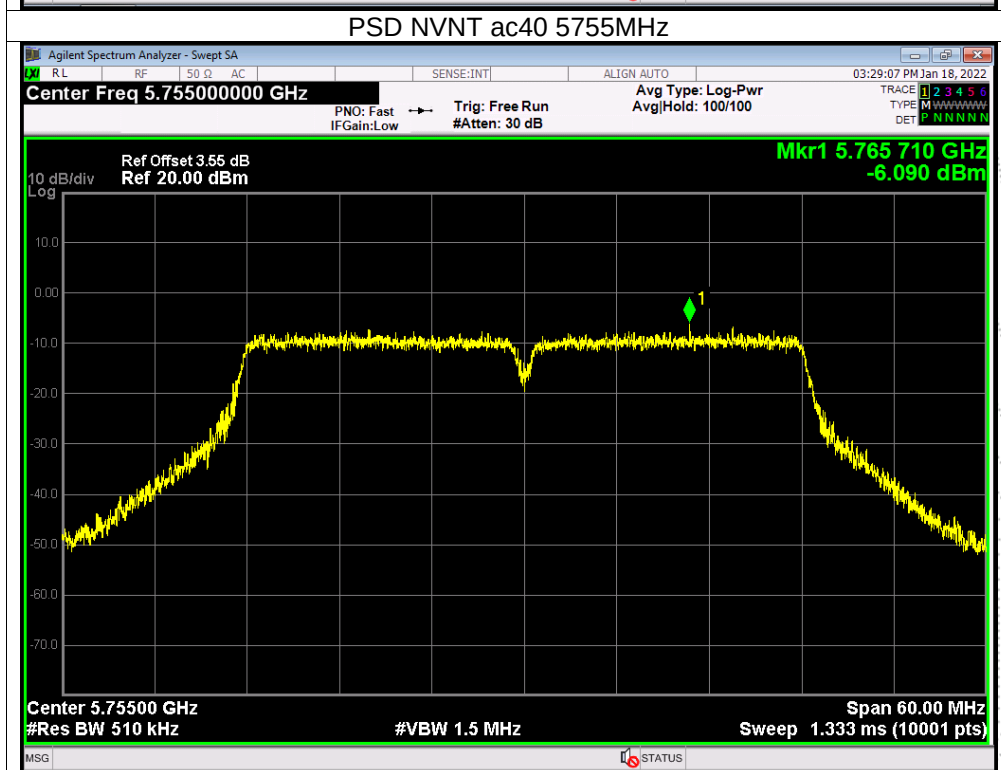
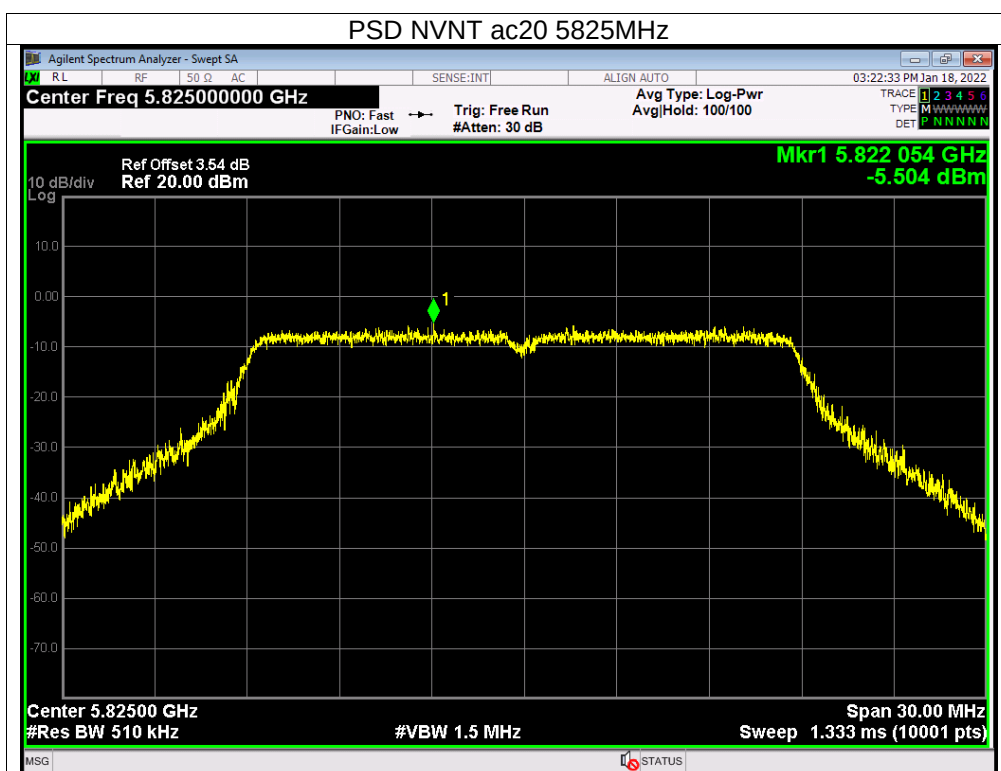


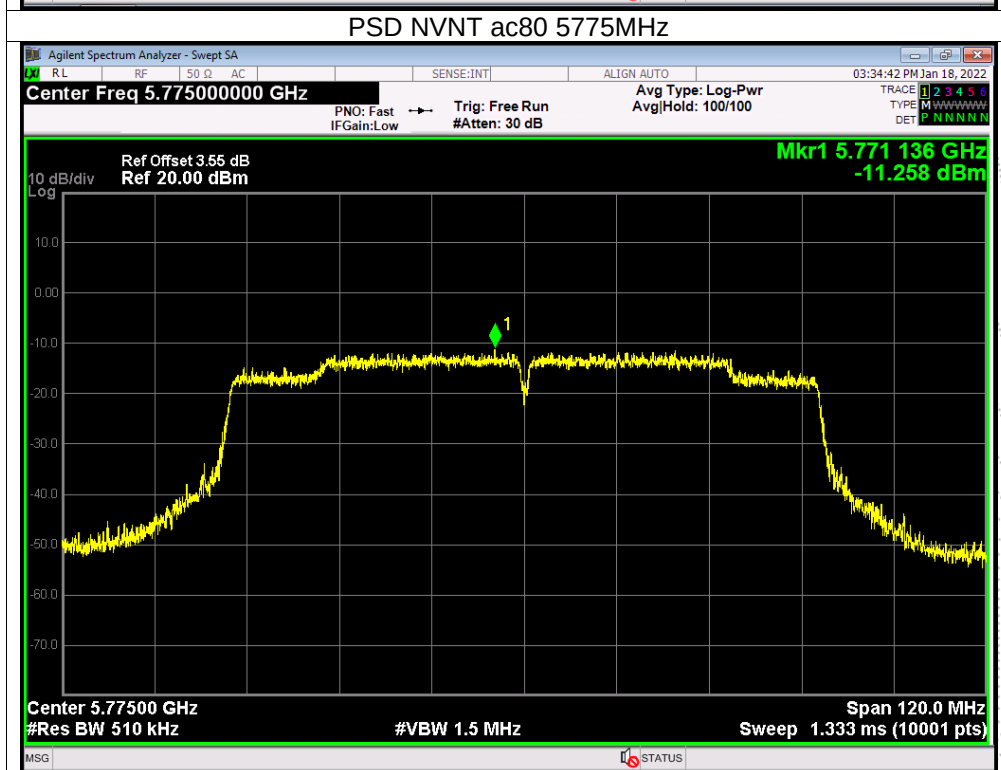
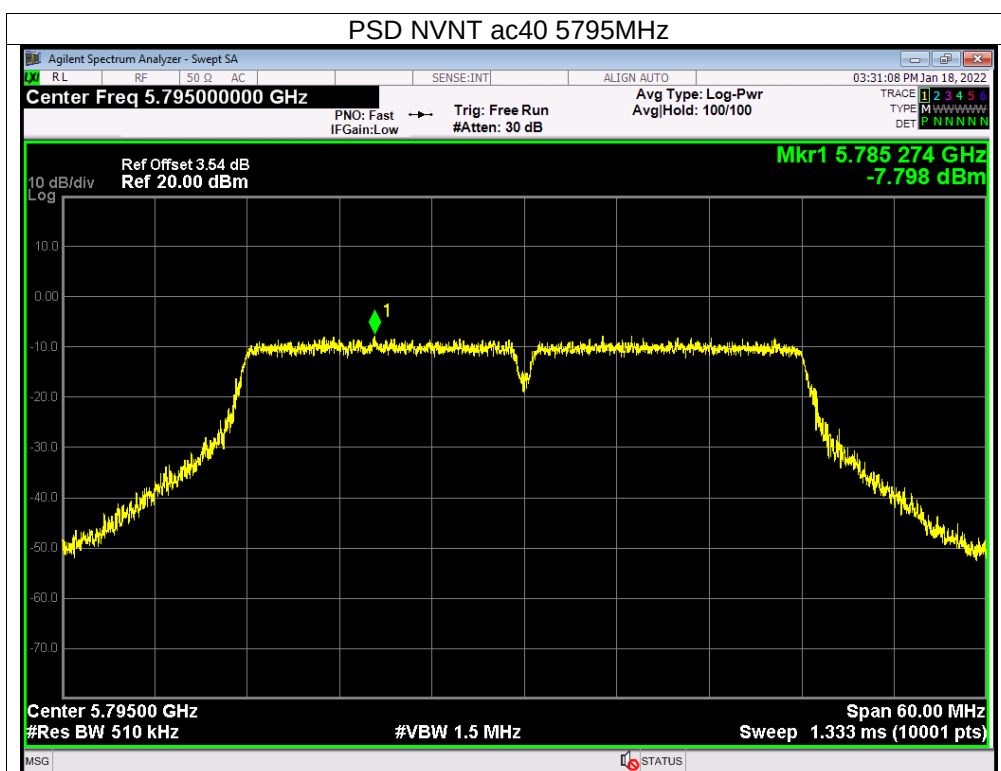






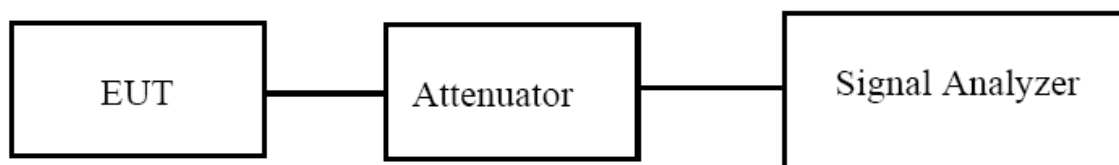






9. 26dB & 6dB & 99% Emission Bandwidth

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.

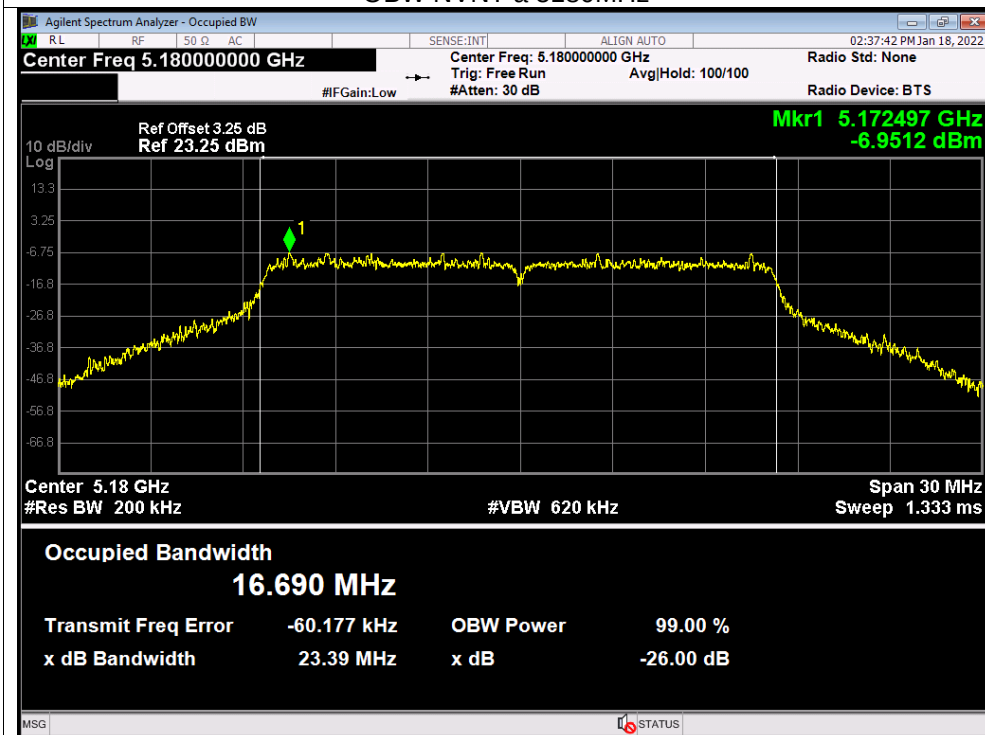
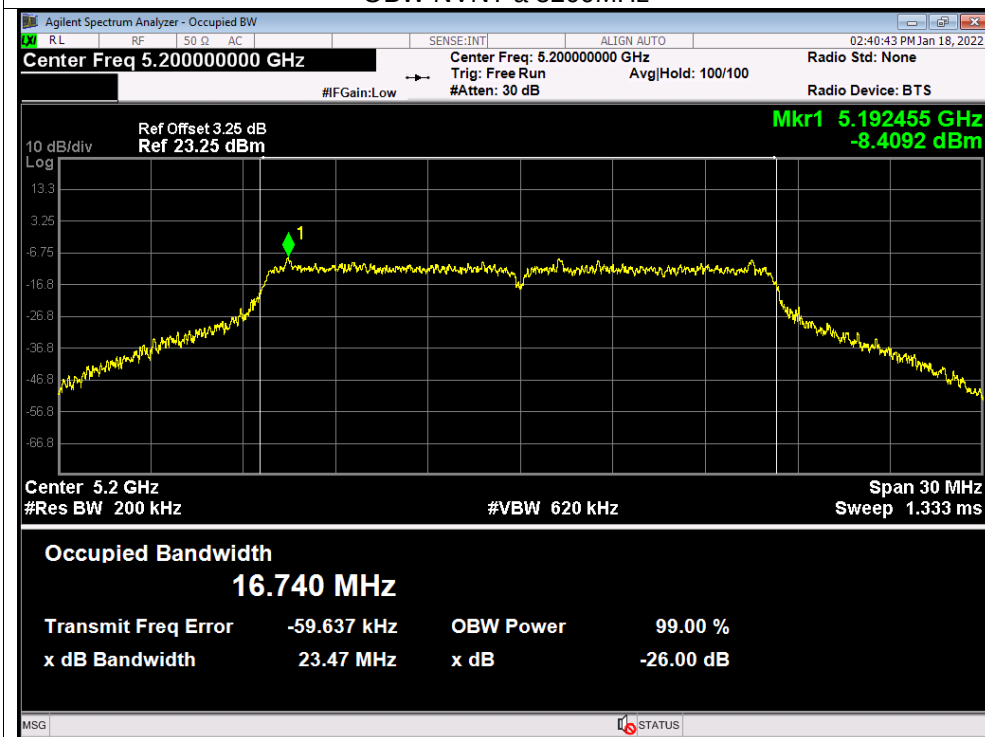
9.4 EUT Operating Conditions

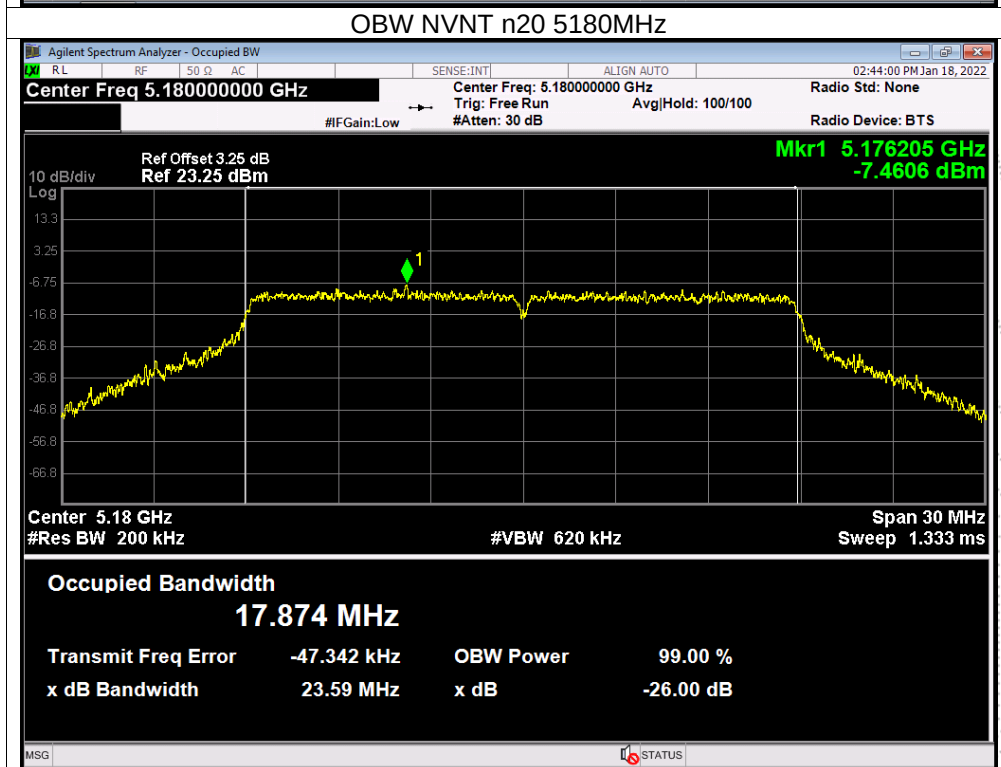
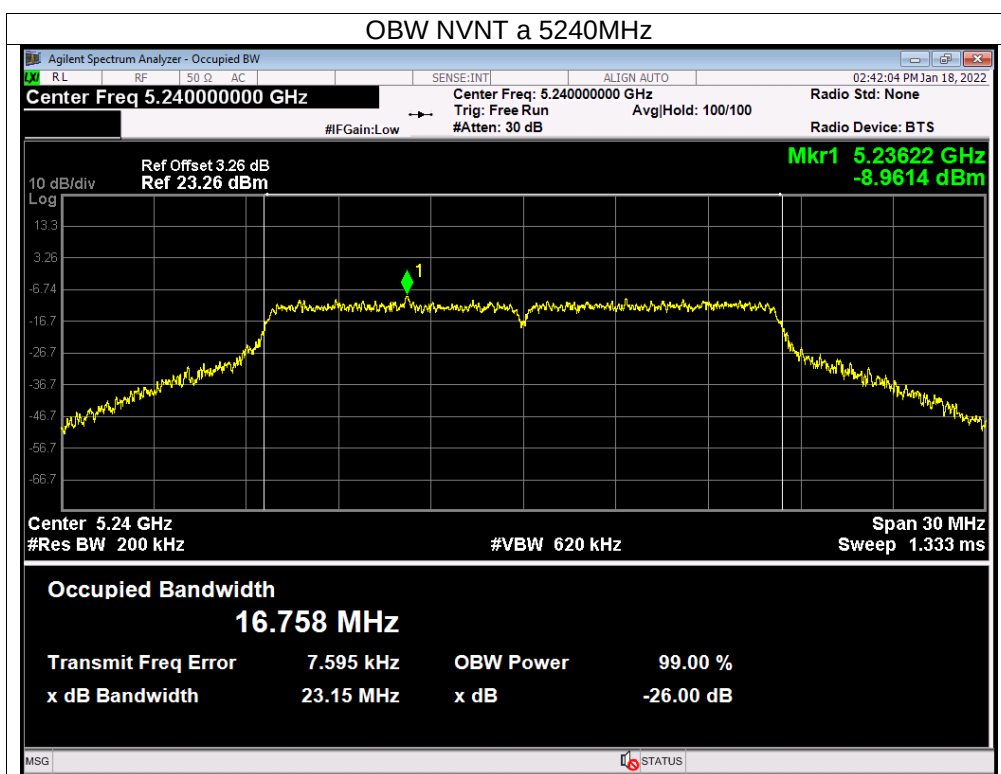
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

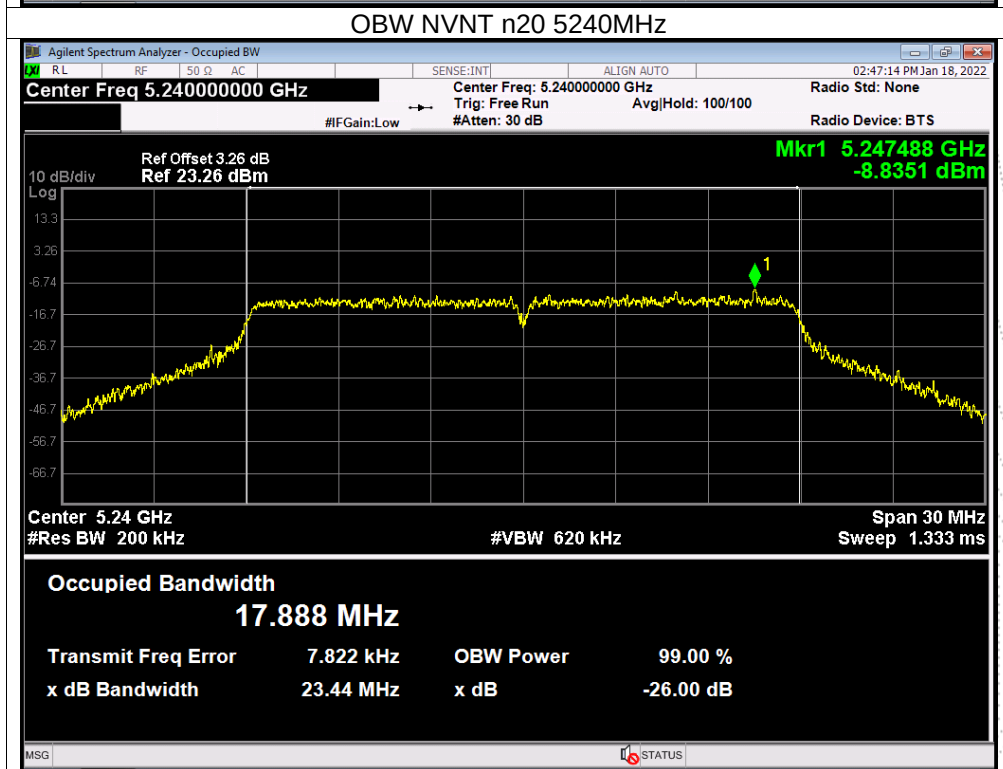
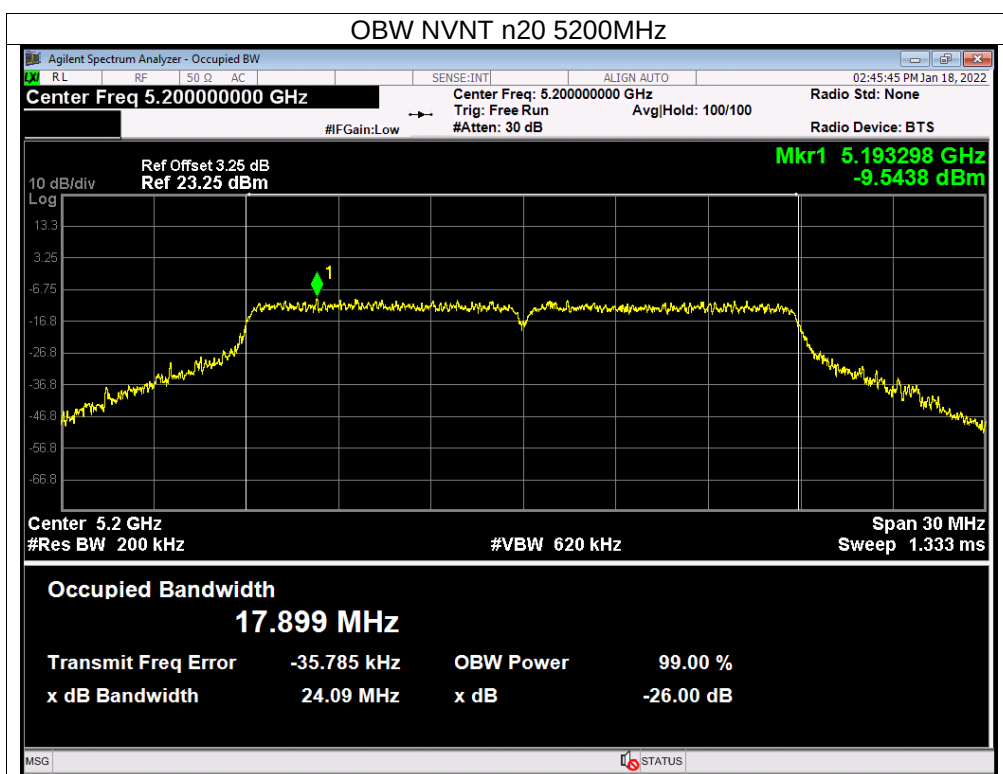
9.5 Test Result

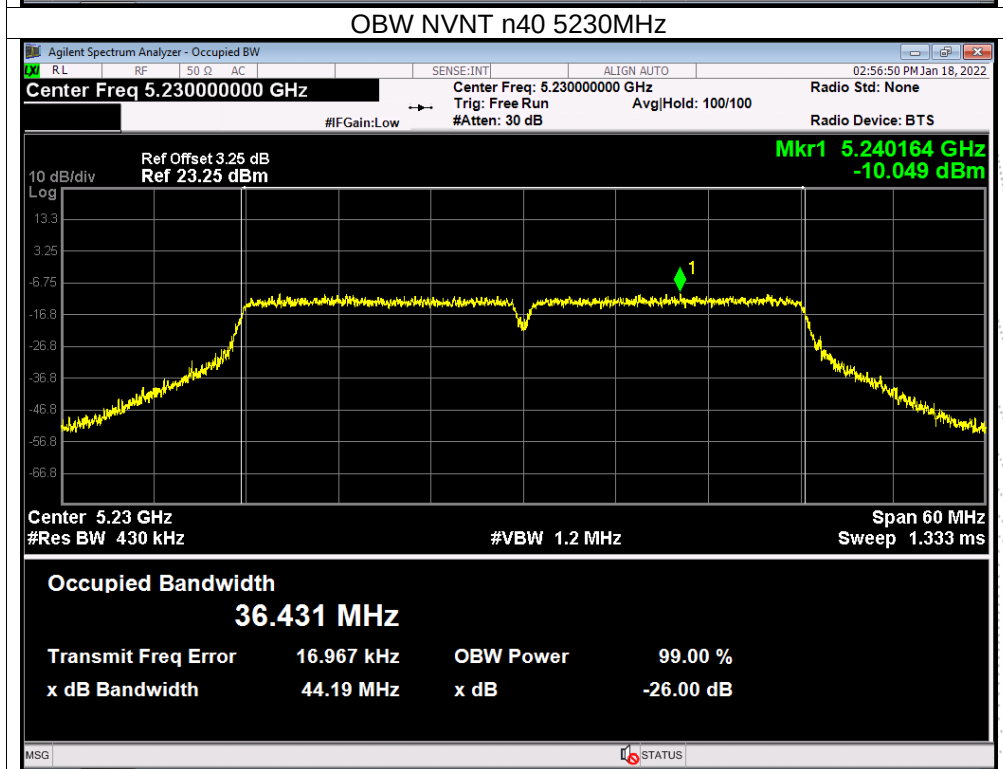
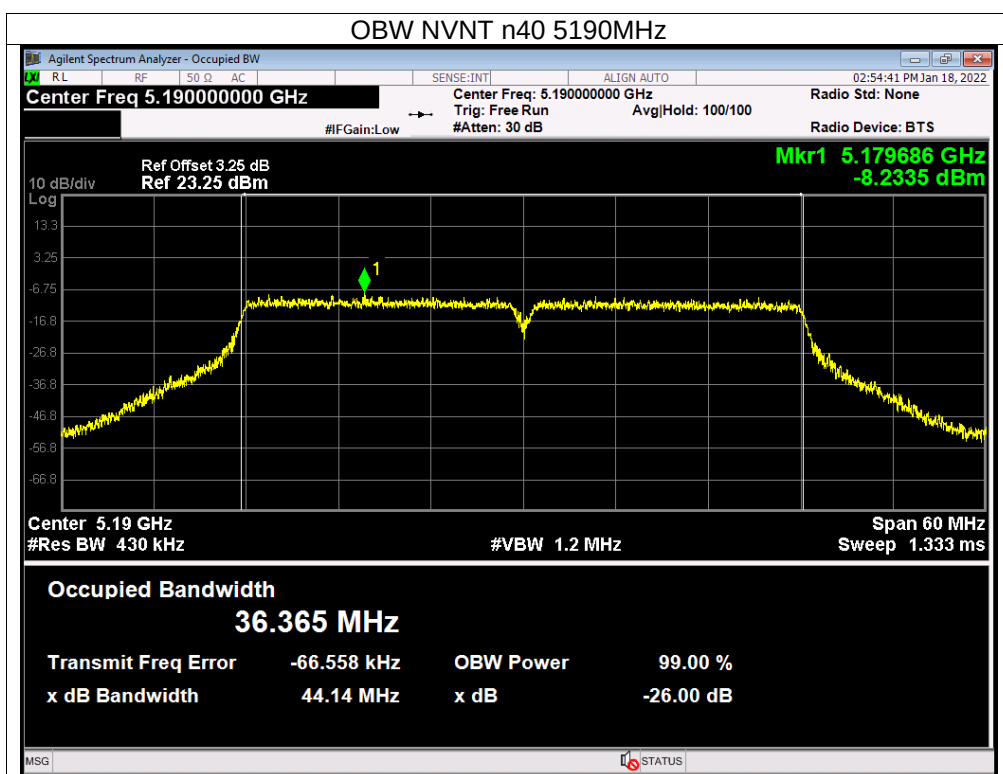
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 7.6V
Test Mode :	TX Frequency U-NII-1 (5180-5240MHz)		

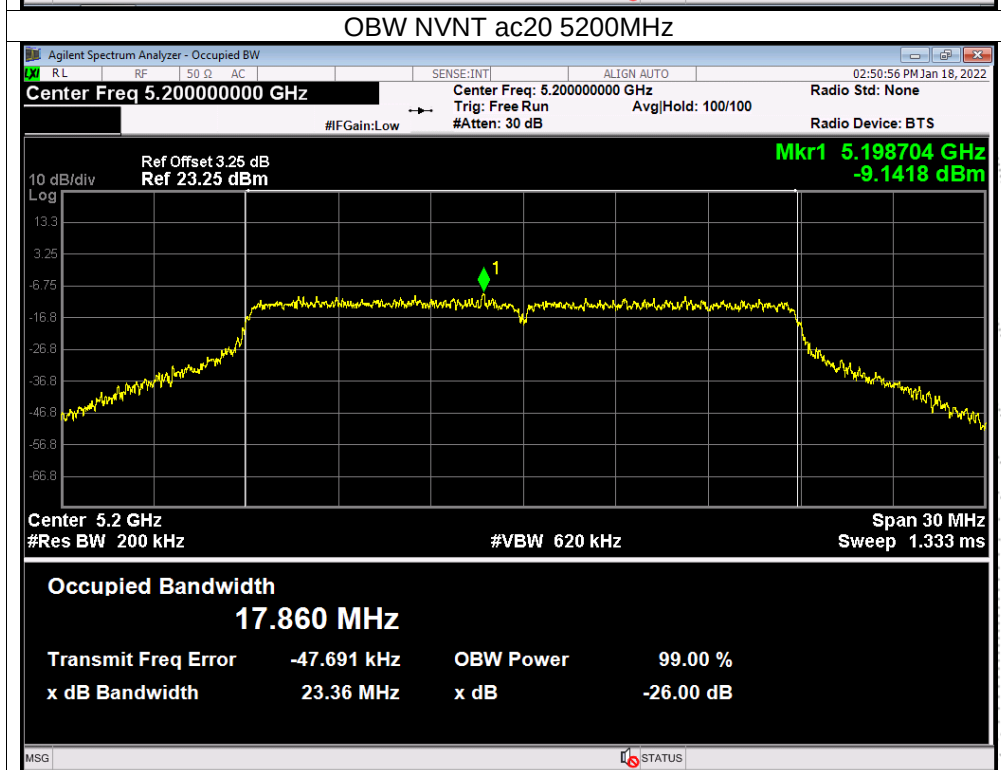
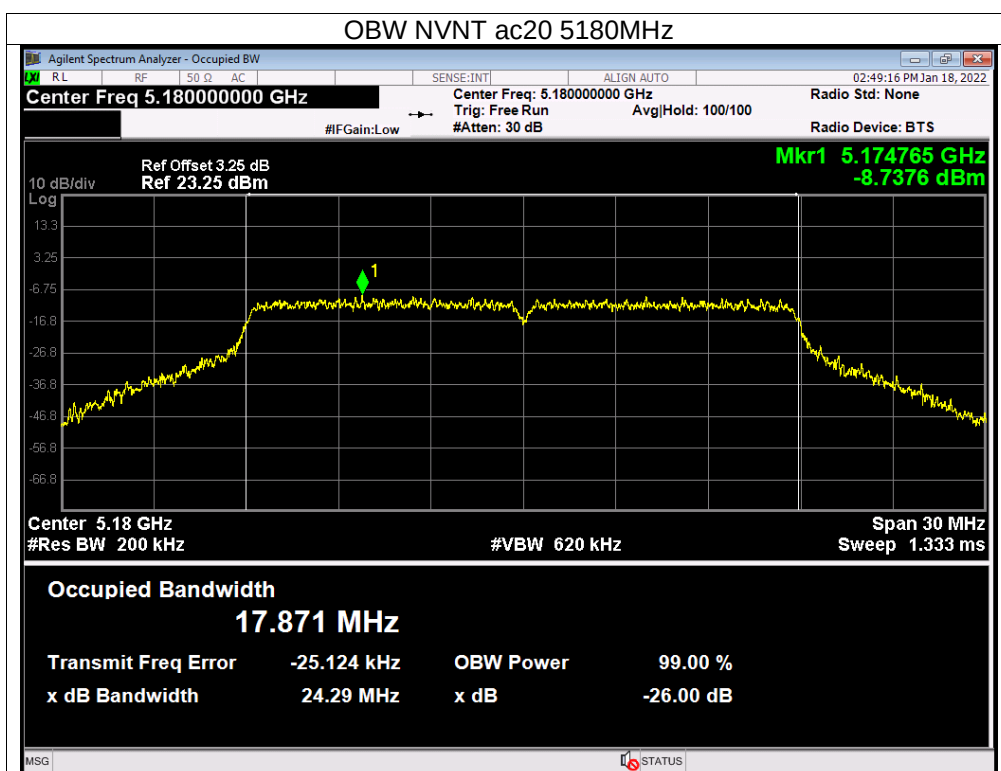
Mode	Channel	Frequency (MHz)	99% bandwidth(MHz)	26dB bandwidth(MHz)	Result
802.11a	CH36	5180	16.69	23.764	Pass
	CH40	5200	16.74	24.096	Pass
	CH48	5240	16.758	23.794	Pass
802.11 n20	CH36	5180	17.874	24.227	Pass
	CH40	5200	17.899	24.763	Pass
	CH48	5240	17.888	24.819	Pass
802.11 n40	CH 38	5190	36.365	44.324	Pass
	CH 46	5230	36.431	43.645	Pass
802.11 AC20	CH36	5180	17.871	24.282	Pass
	CH40	5200	17.86	23.907	Pass
	CH48	5240	17.932	25.176	Pass
802.11 AC40	CH 38	5190	36.346	43.997	Pass
	CH 46	5230	36.466	44.918	Pass
802.11 AC80	CH 42	5210	75.344	82.5	Pass

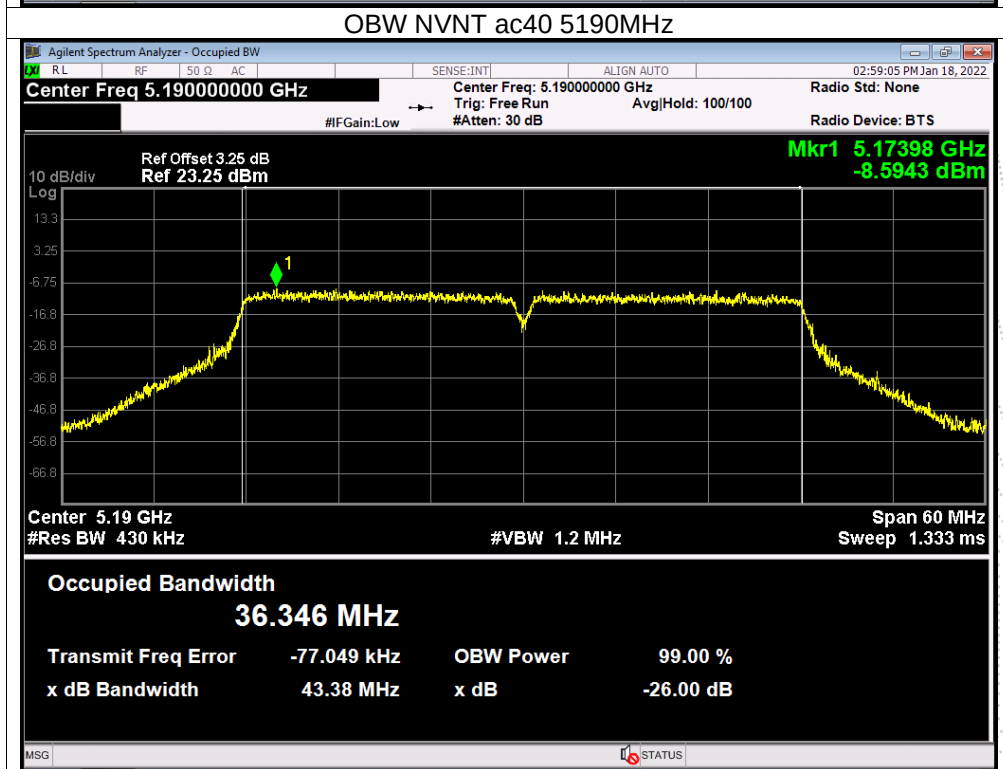
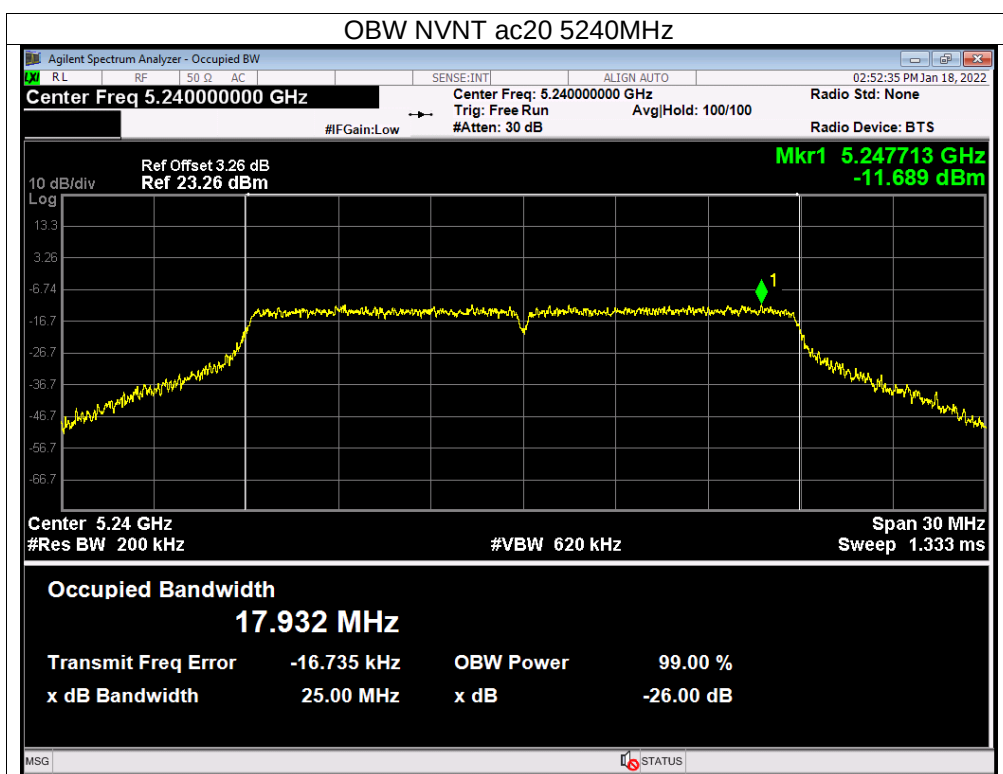
99% OBW
Test Graphs
OBW NVNT a 5180MHz

OBW NVNT a 5200MHz


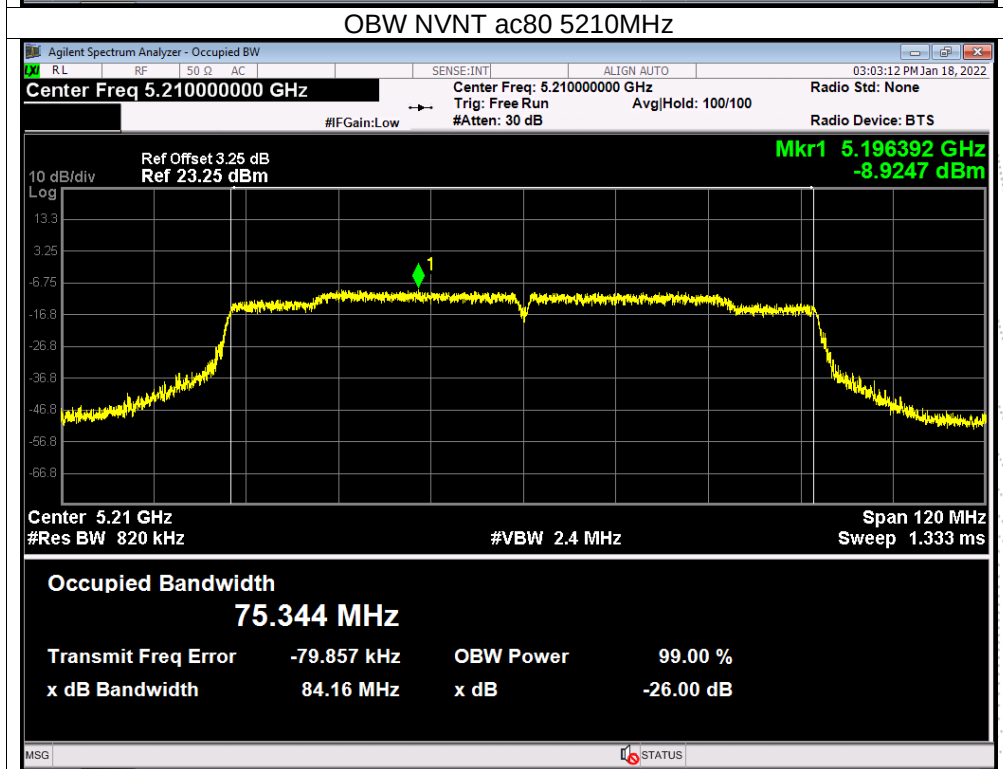
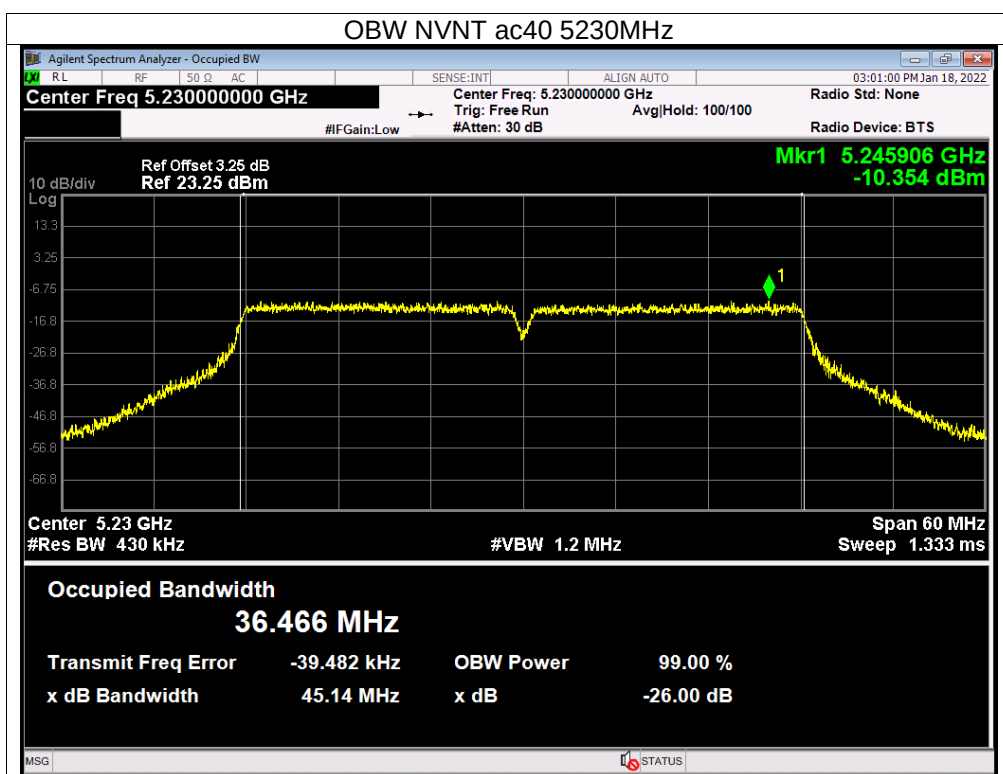








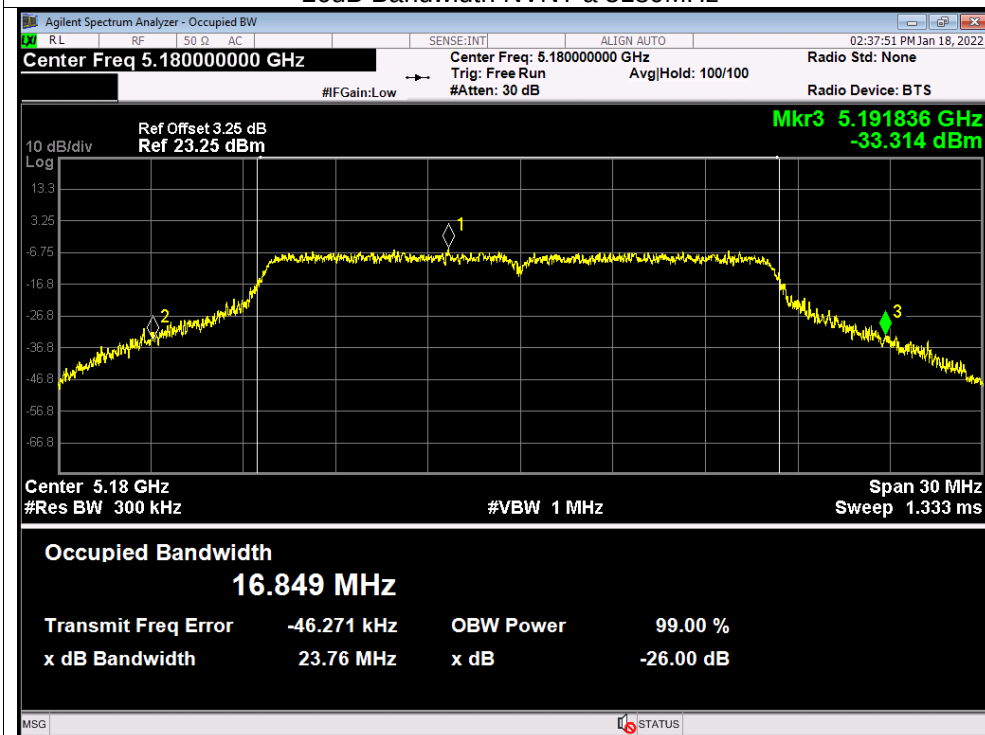




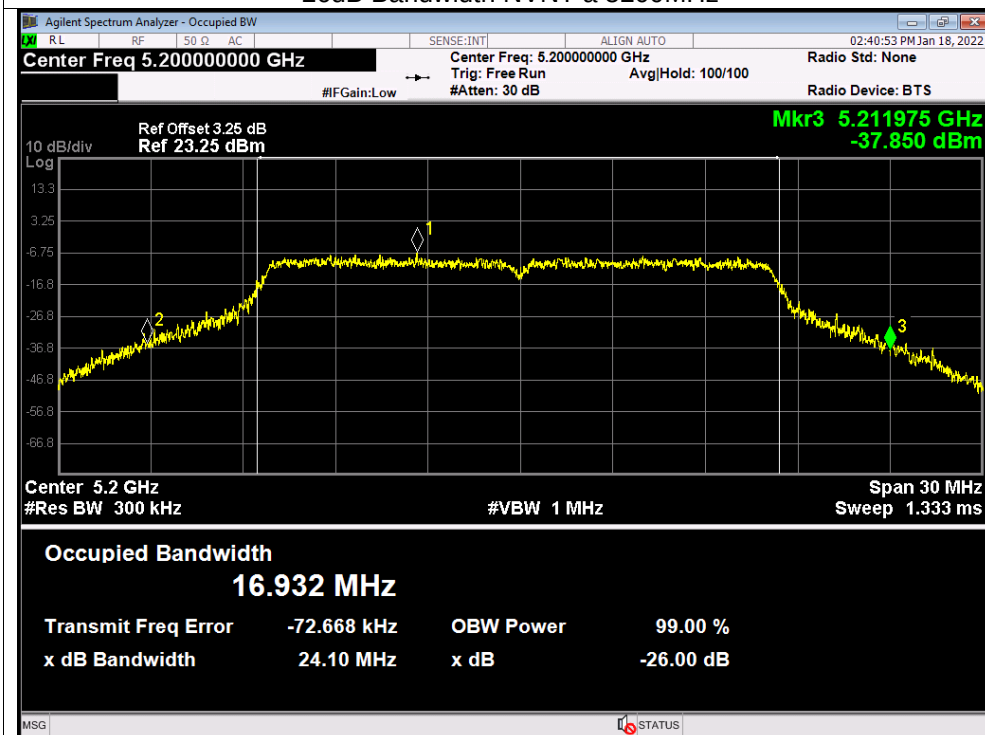
-26dB Bandwidth

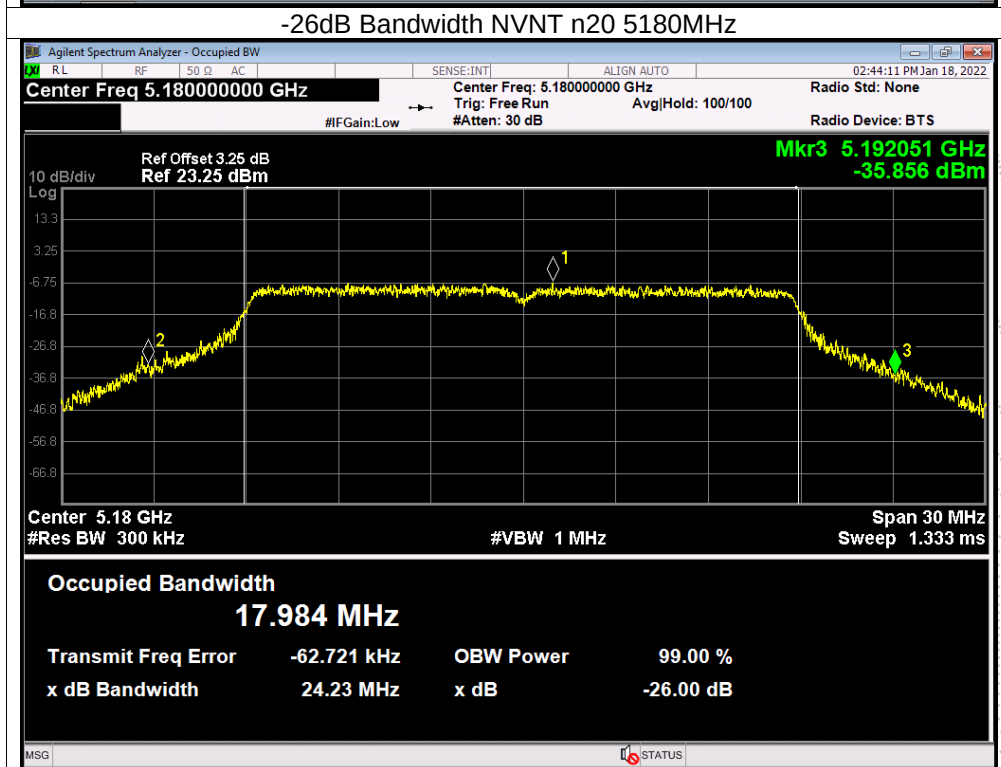
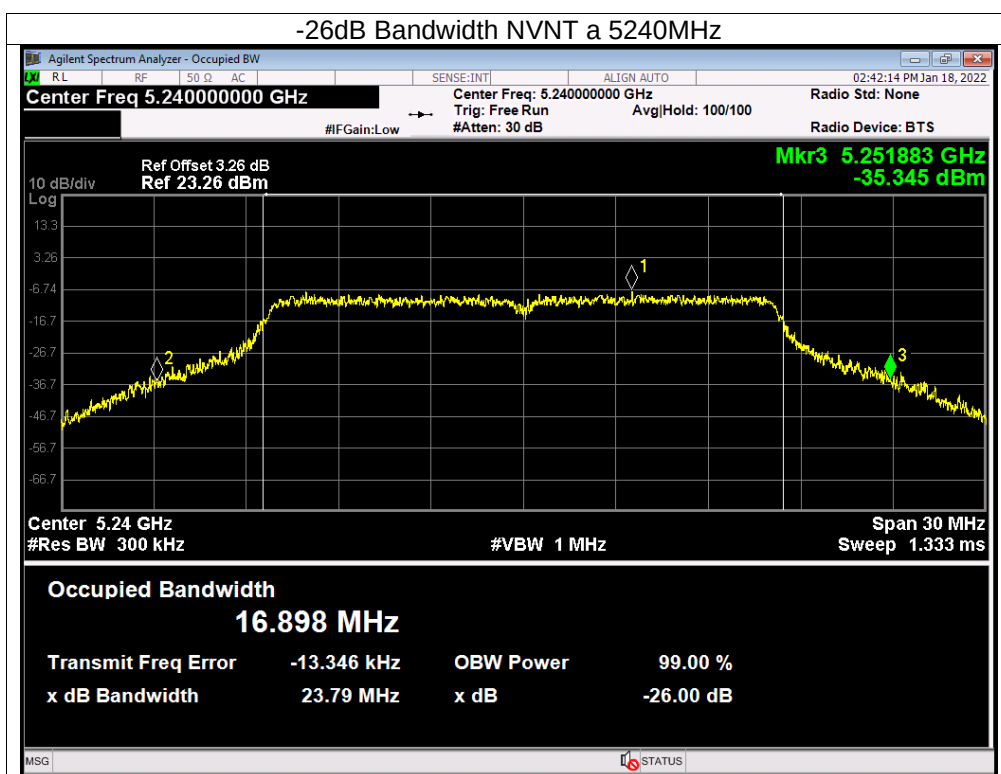
Test Graphs

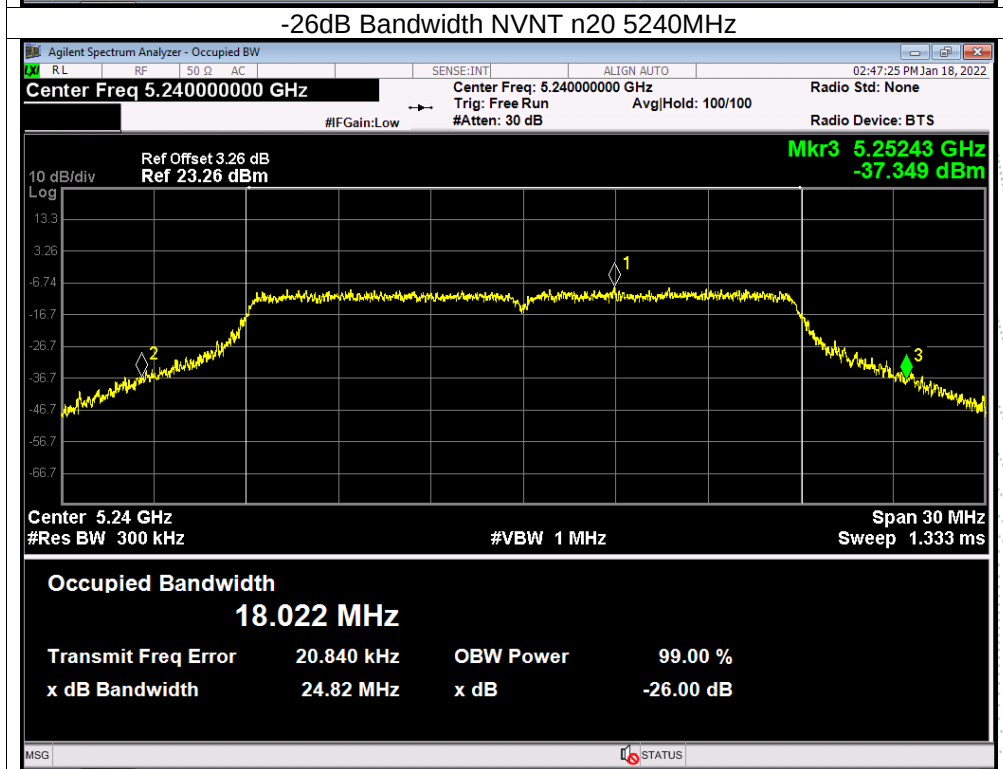
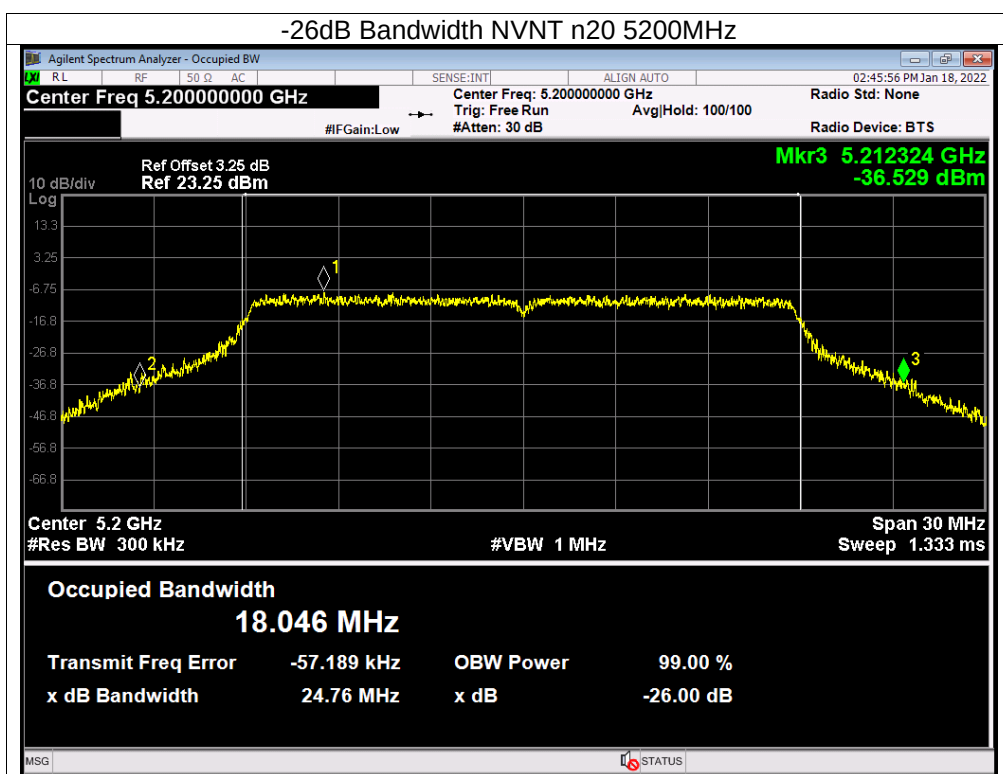
-26dB Bandwidth NVNT a 5180MHz

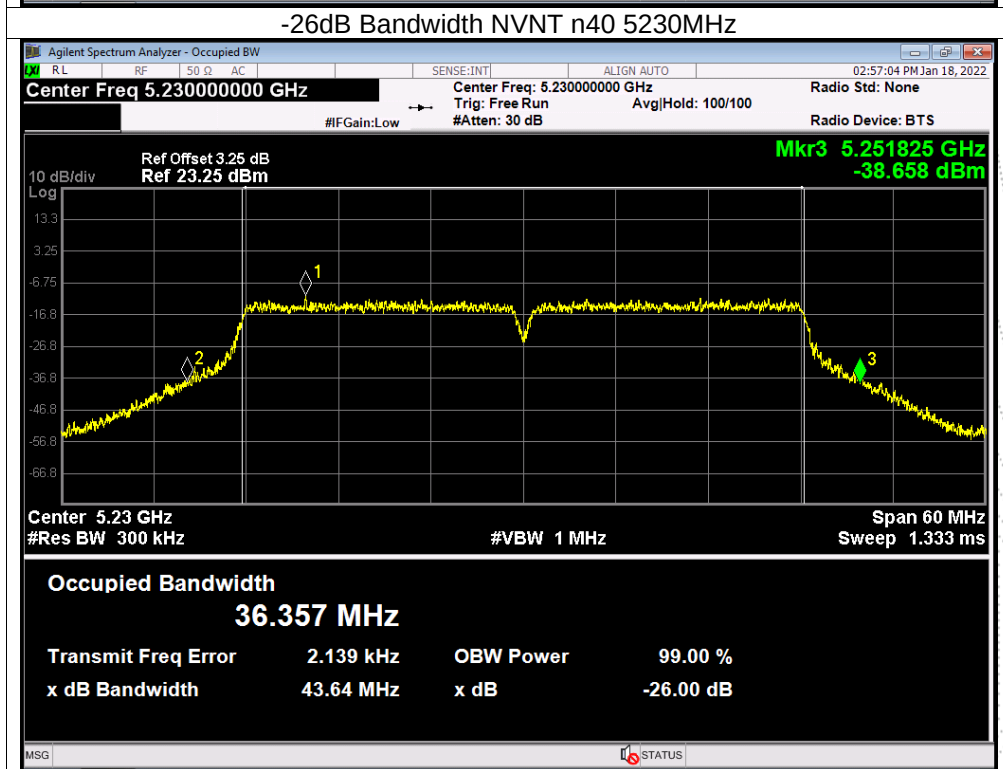
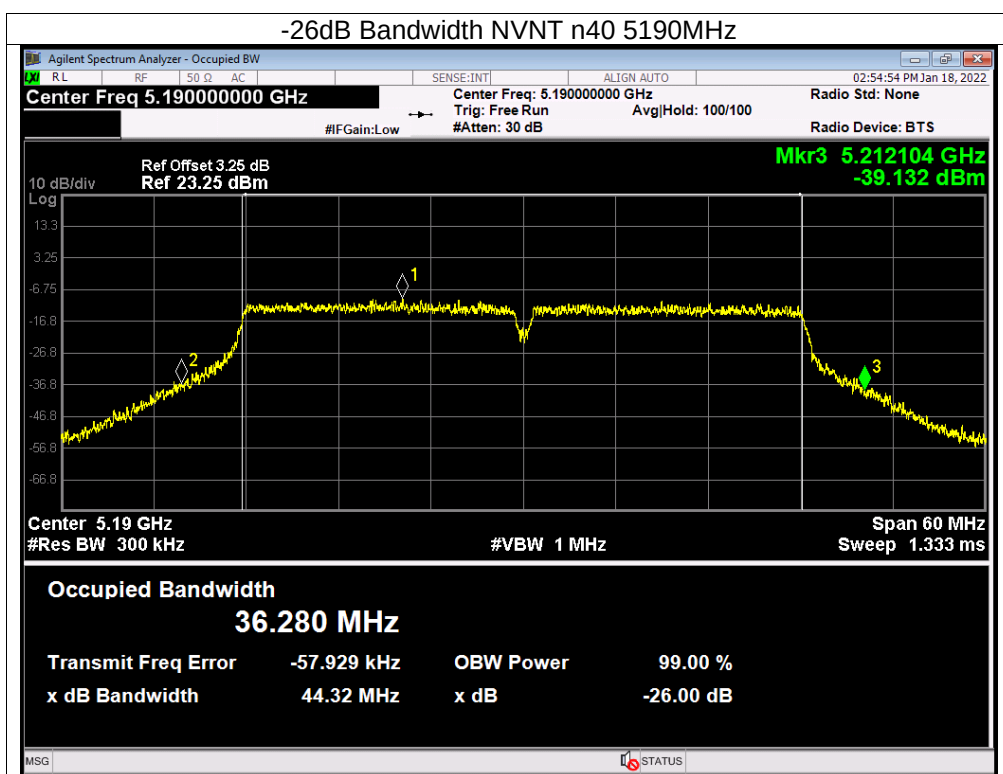


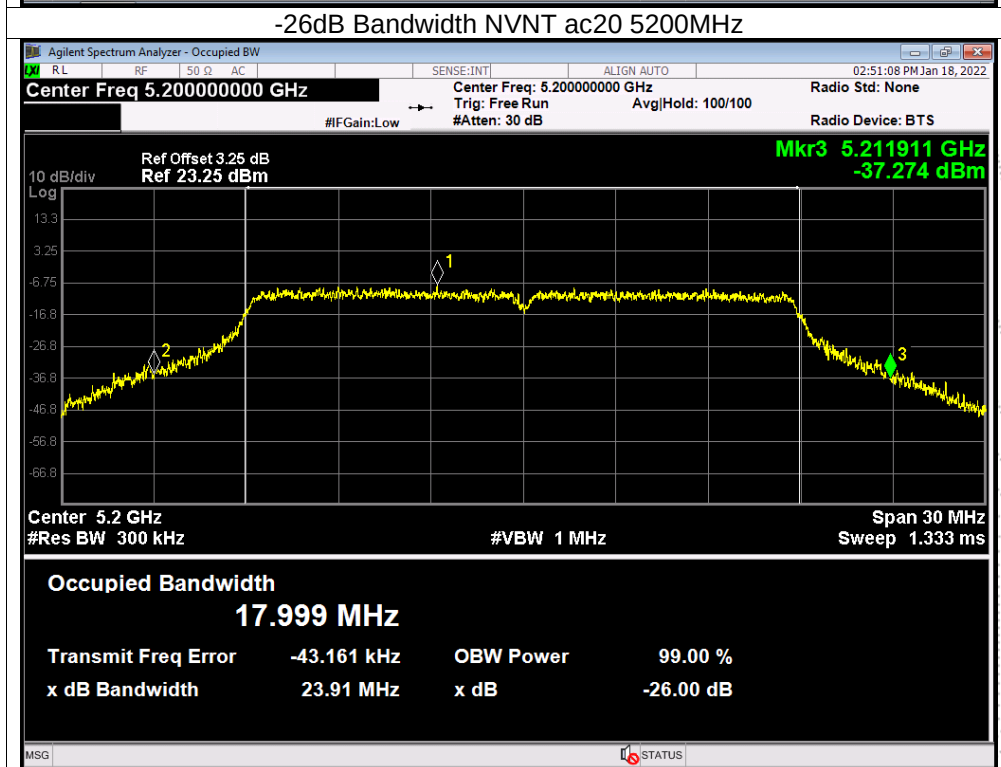
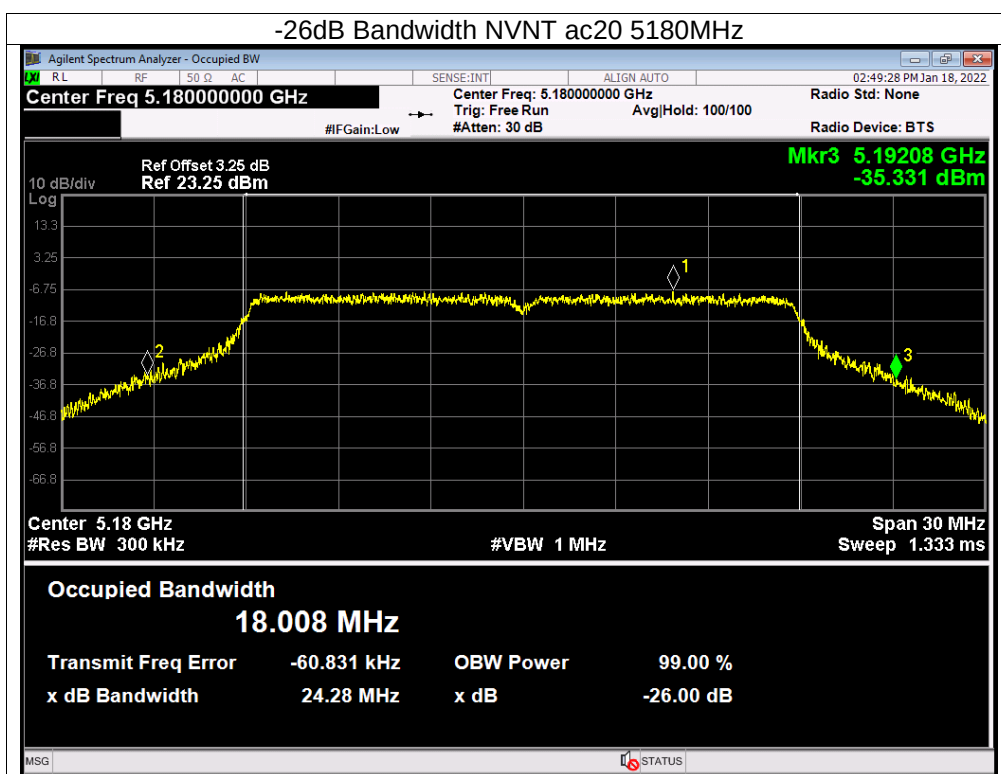
-26dB Bandwidth NVNT a 5200MHz

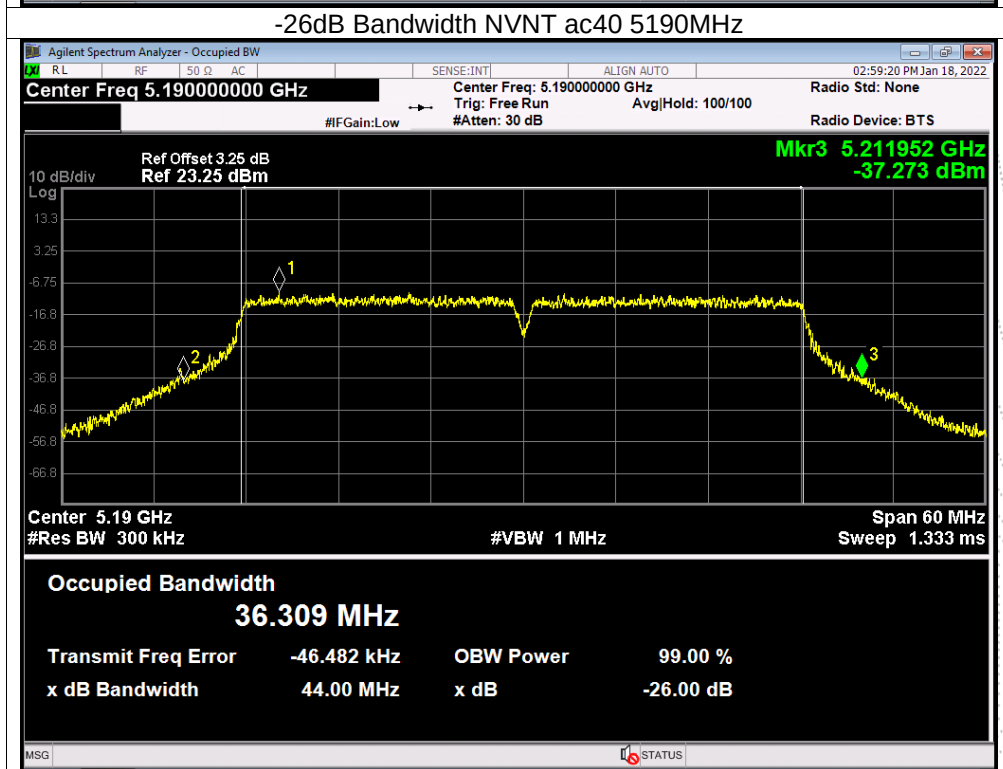
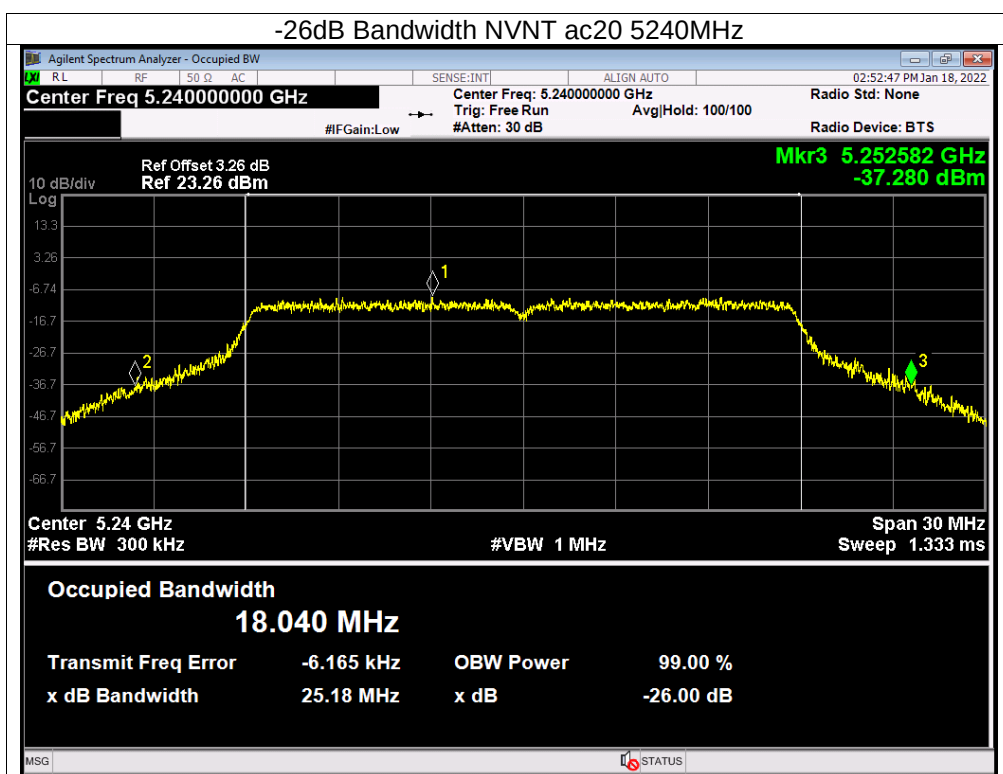


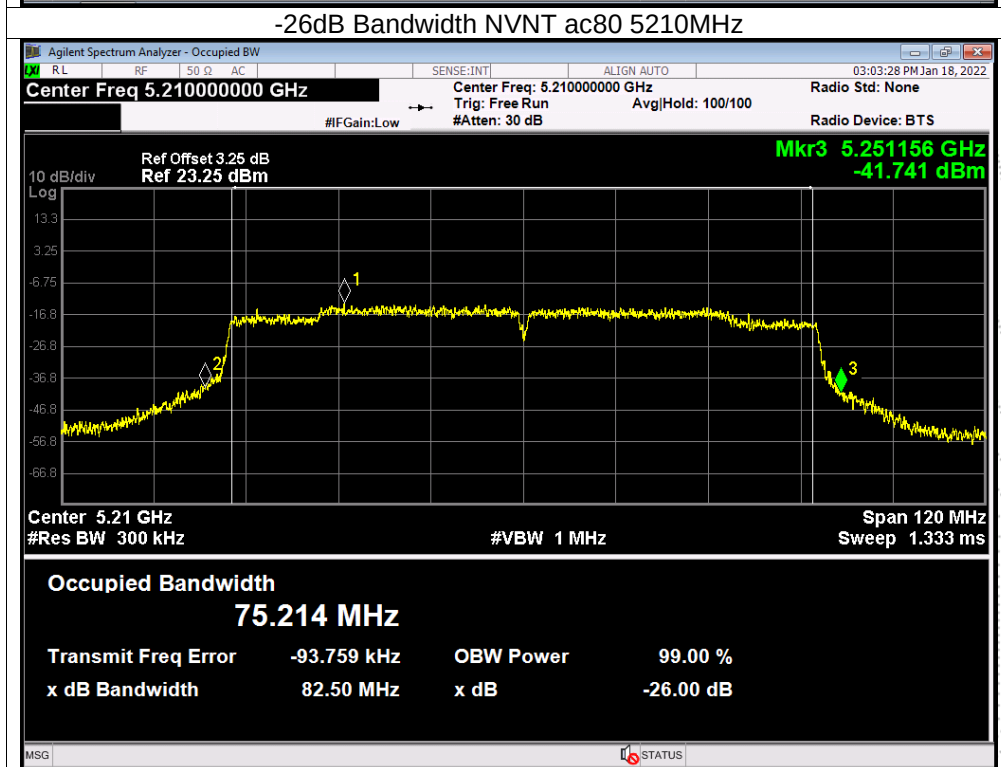
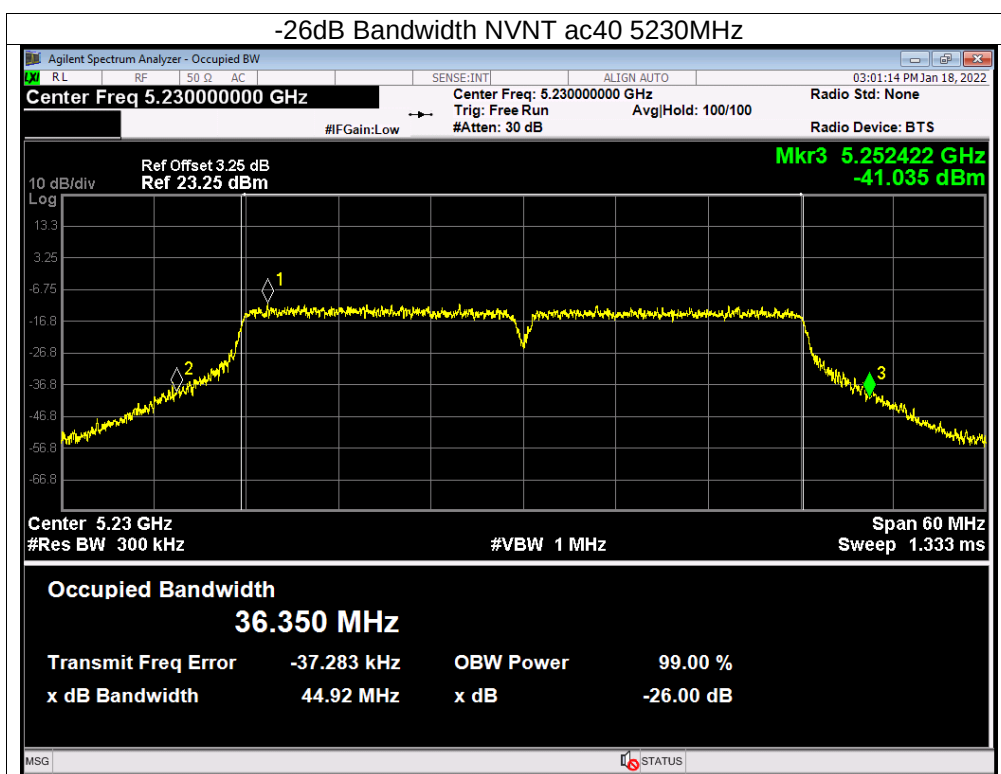












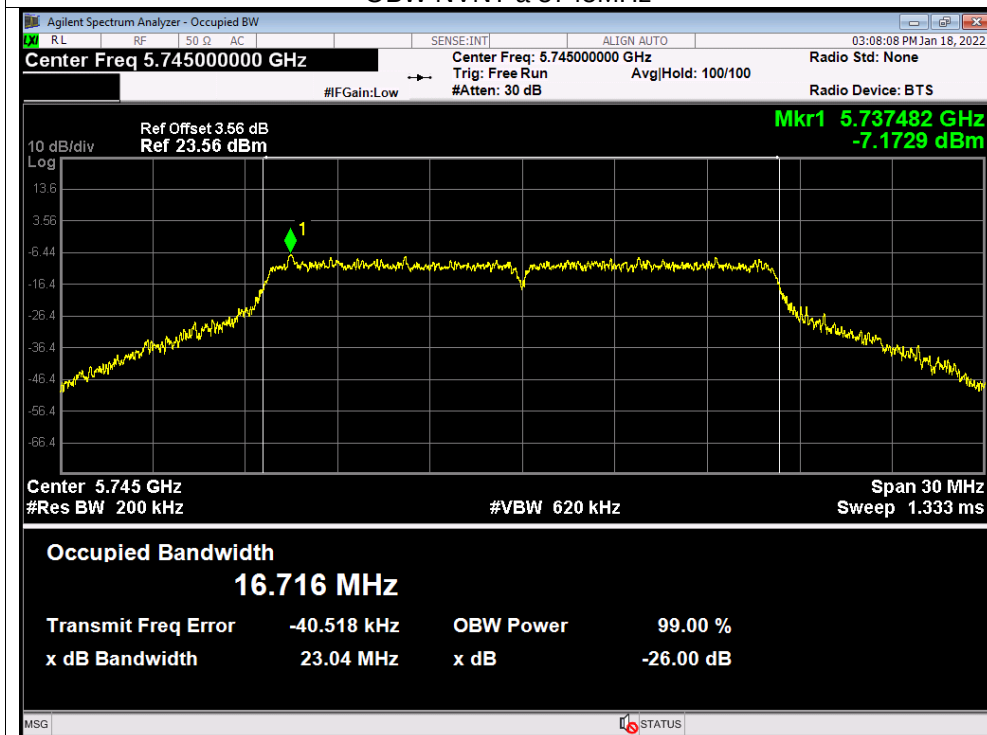
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 7.6V
Test Mode :	TX Frequency U-NII-3(5745-5825MHz)		

Mode	Channel	Frequency (MHz)	99% bandwidth(MHz)	6dB bandwidth (MHz)	Limit kHz	Result
802.11a	CH149	5745	16.716	16.333	≥500	Pass
	CH157	5785	16.681	16.326	≥500	Pass
	CH165	5825	16.708	16.329	≥500	Pass
802.11 n20	CH149	5745	17.856	17.72	≥500	Pass
	CH157	5785	17.847	17.784	≥500	Pass
	CH165	5825	17.878	17.795	≥500	Pass
802.11 n40	CH151	5755	36.423	36.312	≥500	Pass
	CH159	5795	36.367	36.437	≥500	Pass
802.11 AC20	CH149	5745	17.872	17.791	≥500	Pass
	CH157	5785	17.868	17.794	≥500	Pass
	CH165	5825	17.865	17.811	≥500	Pass
802.11 AC40	CH151	5755	36.39	36.327	≥500	Pass
	CH159	5795	36.379	36.337	≥500	Pass
802.11 AC80	CH151	5755	75.079	59.086	≥500	Pass

99% OBW

Test Graphs

OBW NVNT a 5745MHz



OBW NVNT a 5785MHz

