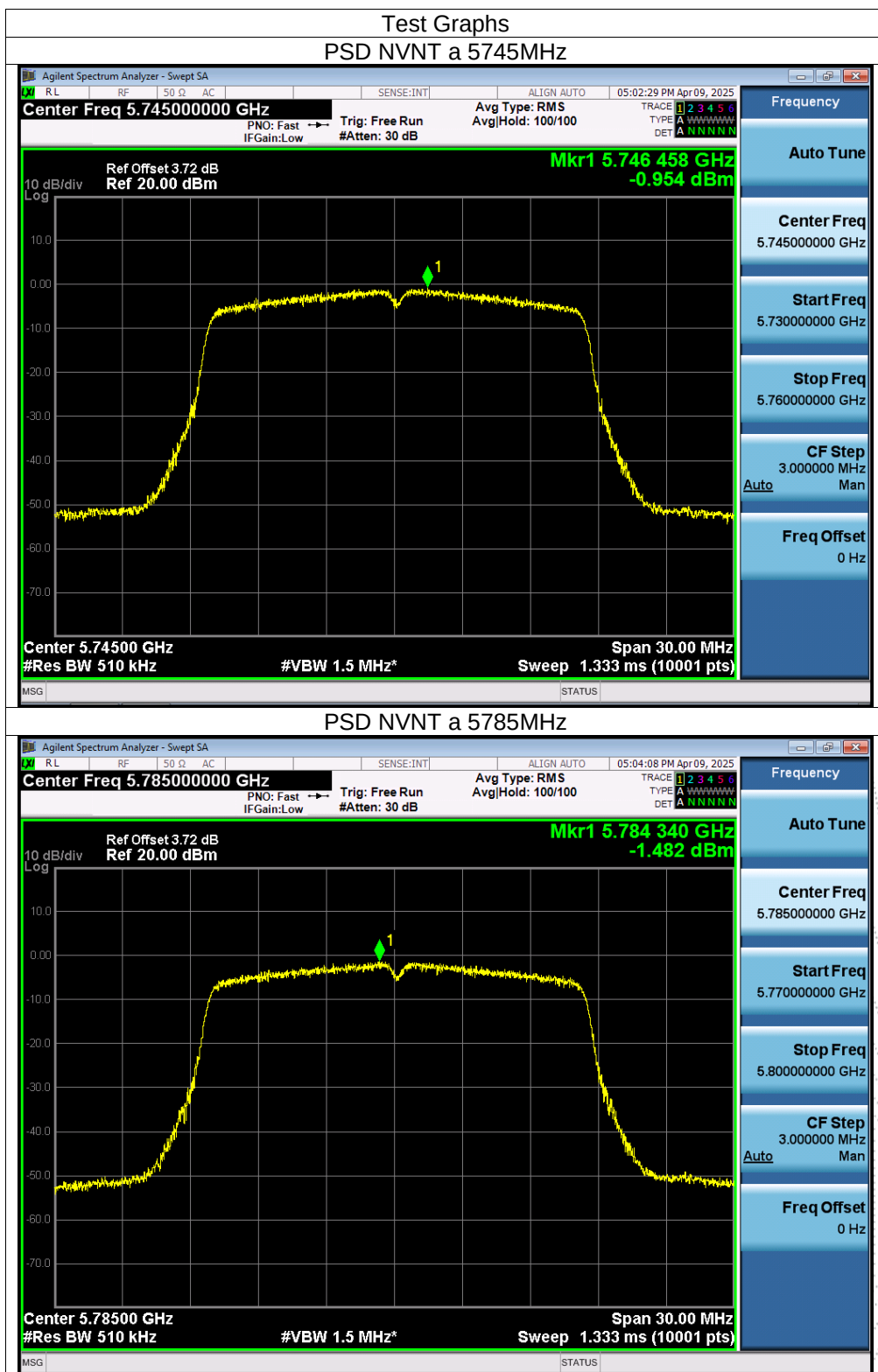
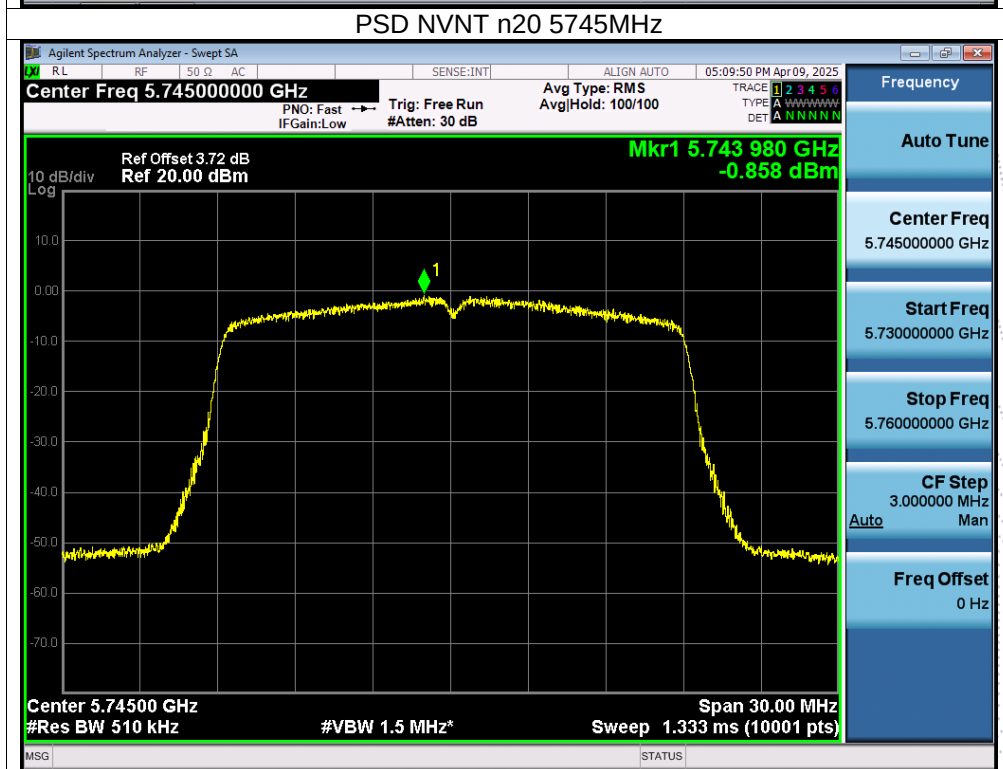
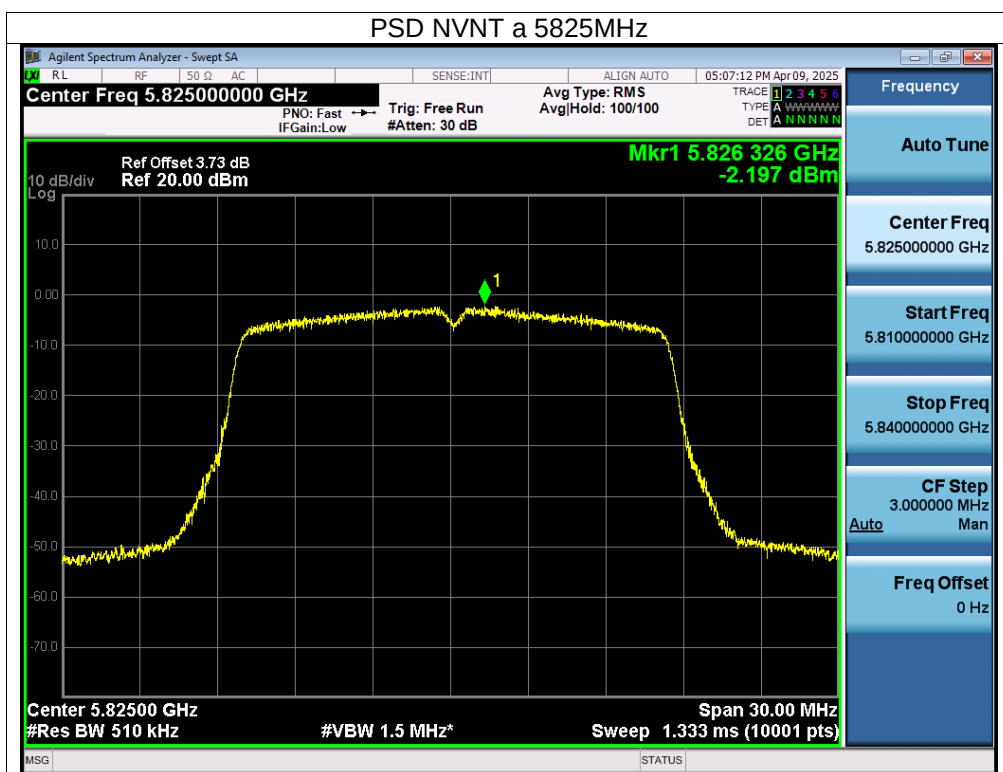


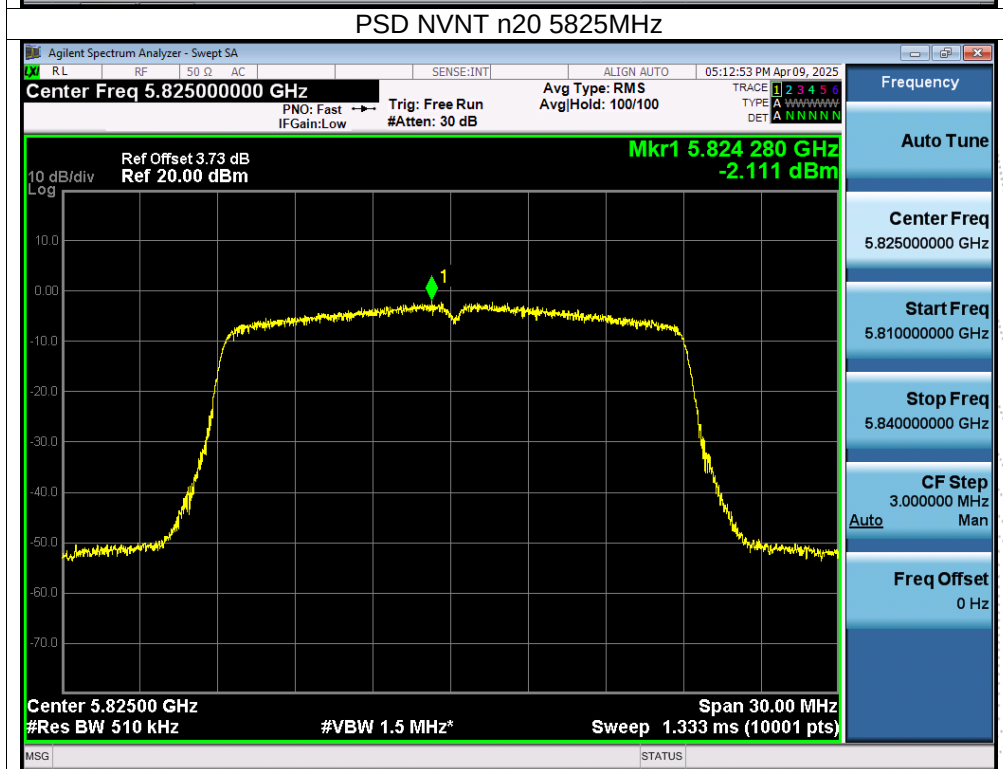
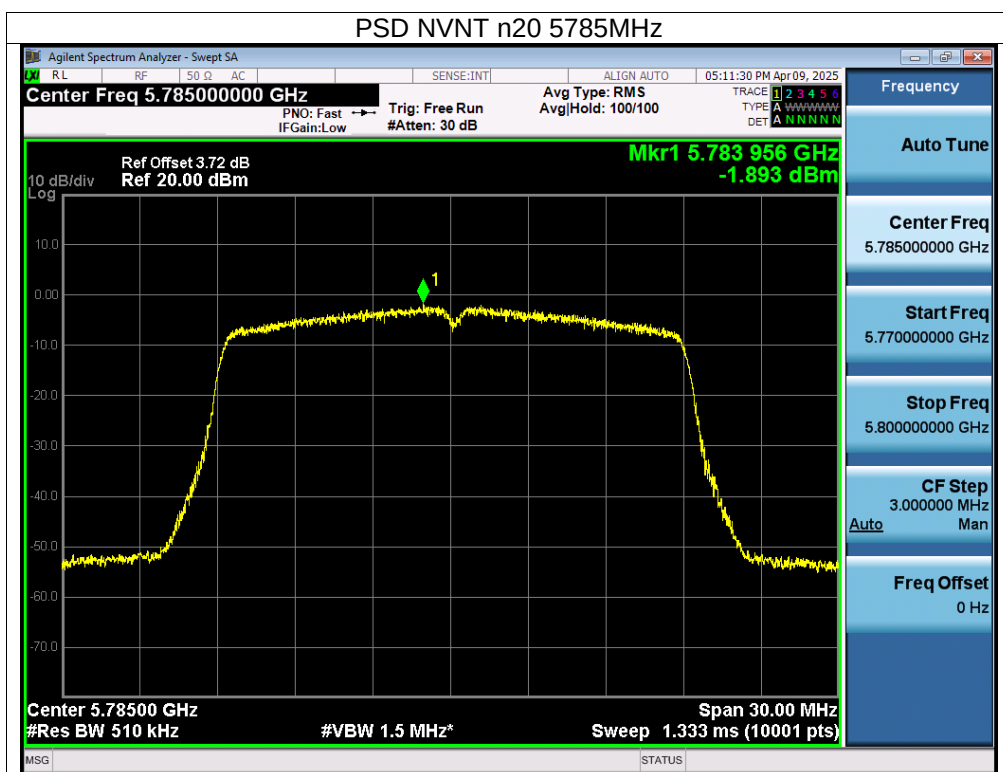
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.3V
Test Mode:	(U-NII-3) 5745MHz-5825MHz		

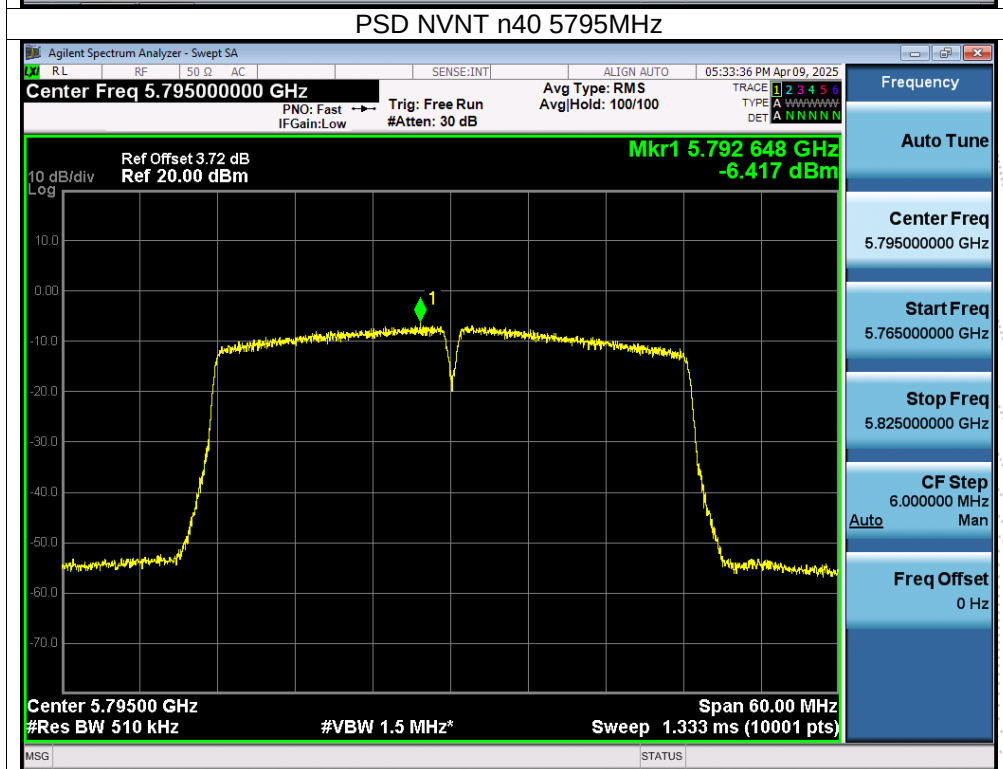
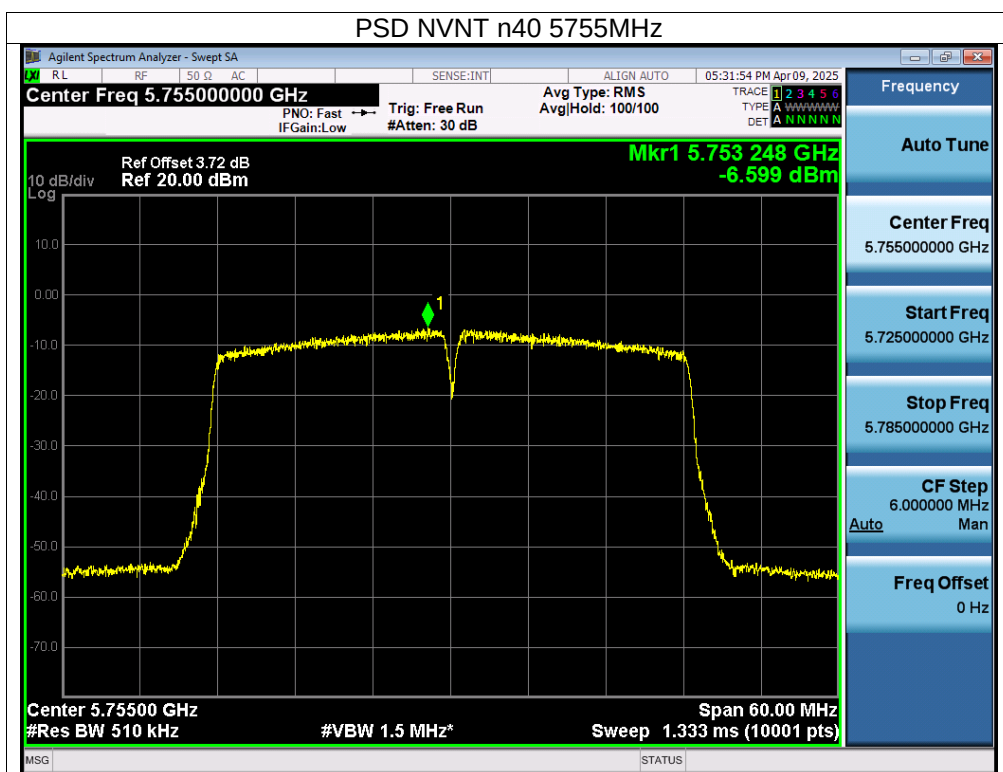
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510KHz)	Conducted PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	-0.95	-1.036	30	Pass
NVNT	a	5785	-1.48	-1.566	30	Pass
NVNT	a	5825	-2.2	-2.286	30	Pass
NVNT	n20	5745	-0.86	-0.946	30	Pass
NVNT	n20	5785	-1.89	-1.976	30	Pass
NVNT	n20	5825	-2.11	-2.196	30	Pass
NVNT	n40	5755	-6.6	-6.686	30	Pass
NVNT	n40	5795	-6.42	-6.506	30	Pass
NVNT	ac20	5745	-1.59	-1.676	30	Pass
NVNT	ac20	5785	-1.35	-1.436	30	Pass
NVNT	ac20	5825	-2.18	-2.266	30	Pass
NVNT	ac40	5755	-5.82	-5.906	30	Pass
NVNT	ac40	5795	-7.2	-7.286	30	Pass
NVNT	ac80	5775	-10.72	-10.806	30	Pass
NVNT	ax20	5745	-1.36	-1.446	30	Pass
NVNT	ax20	5785	-1.25	-1.336	30	Pass
NVNT	ax20	5825	-1.95	-2.036	30	Pass
NVNT	ax40	5755	-6.67	-6.756	30	Pass
NVNT	ax40	5795	-6.69	-6.776	30	Pass
NVNT	ax80	5775	-11.05	-11.136	30	Pass

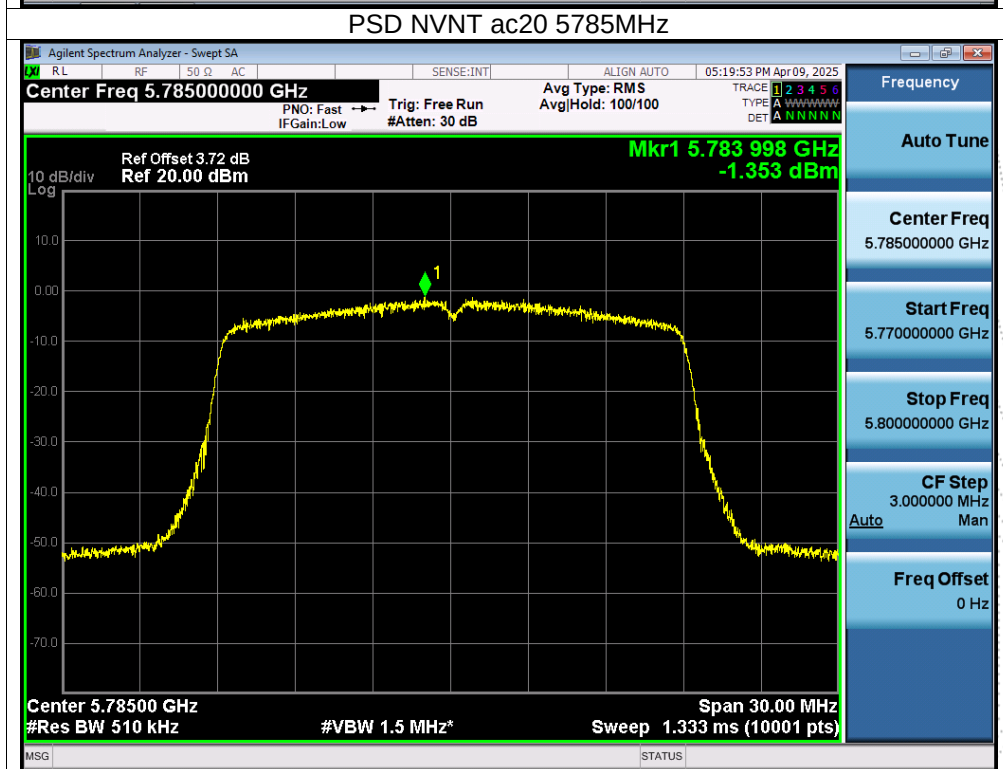
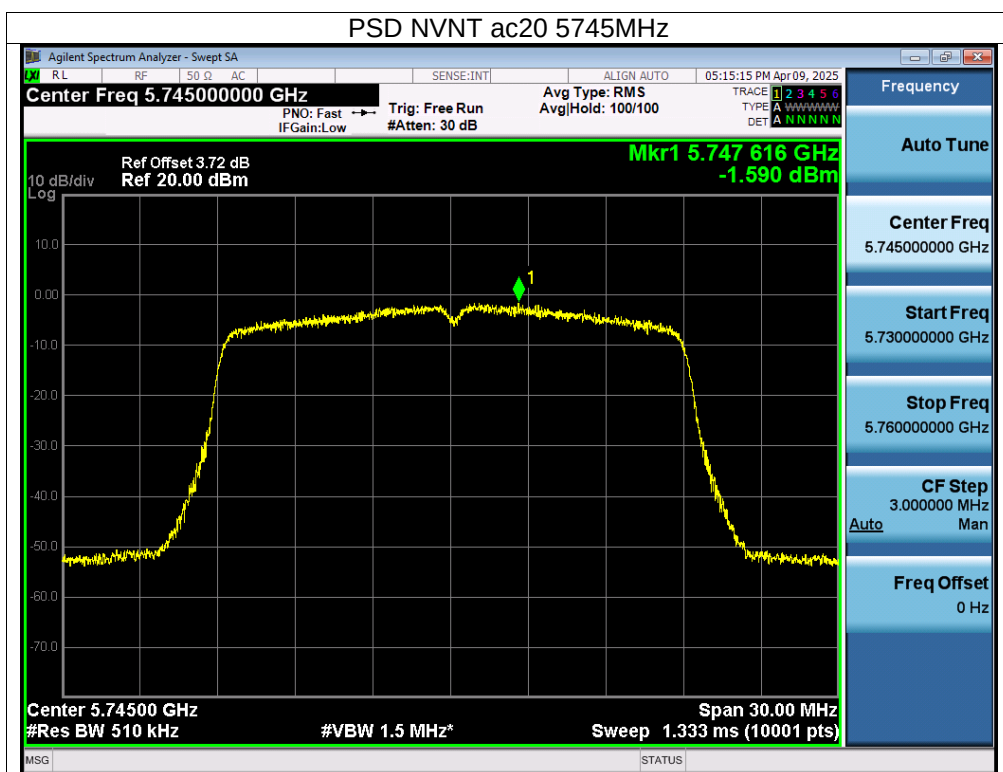
Note: Correction Factor = $10\log(500\text{KHz}/\text{RBW in measurement}) = -0.086$

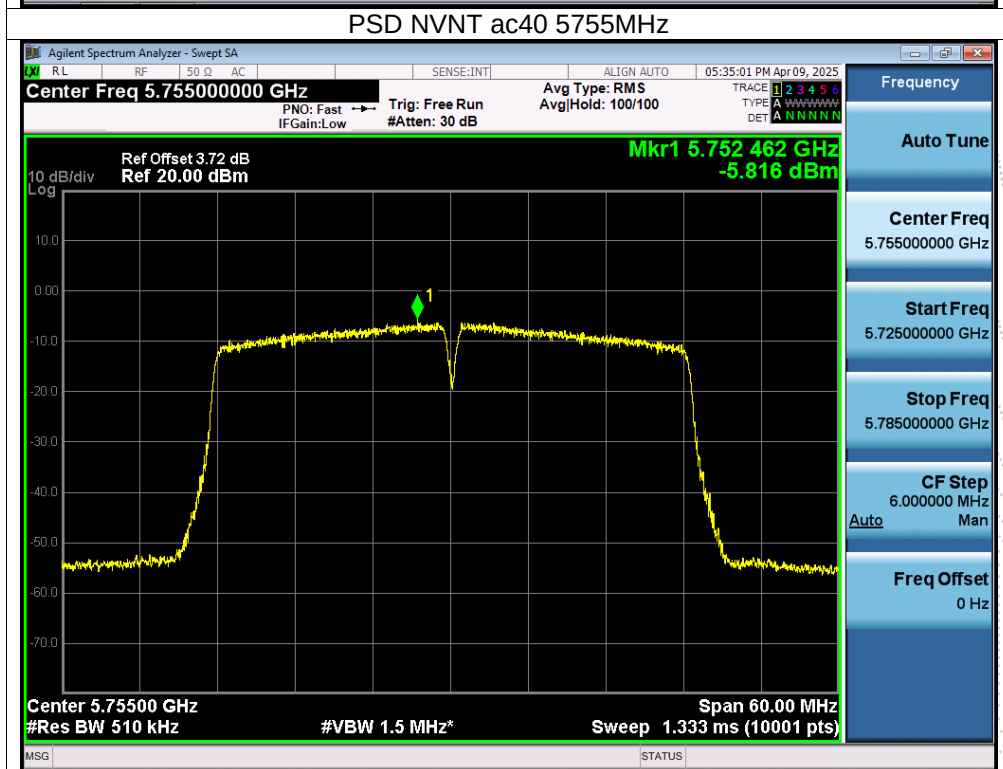
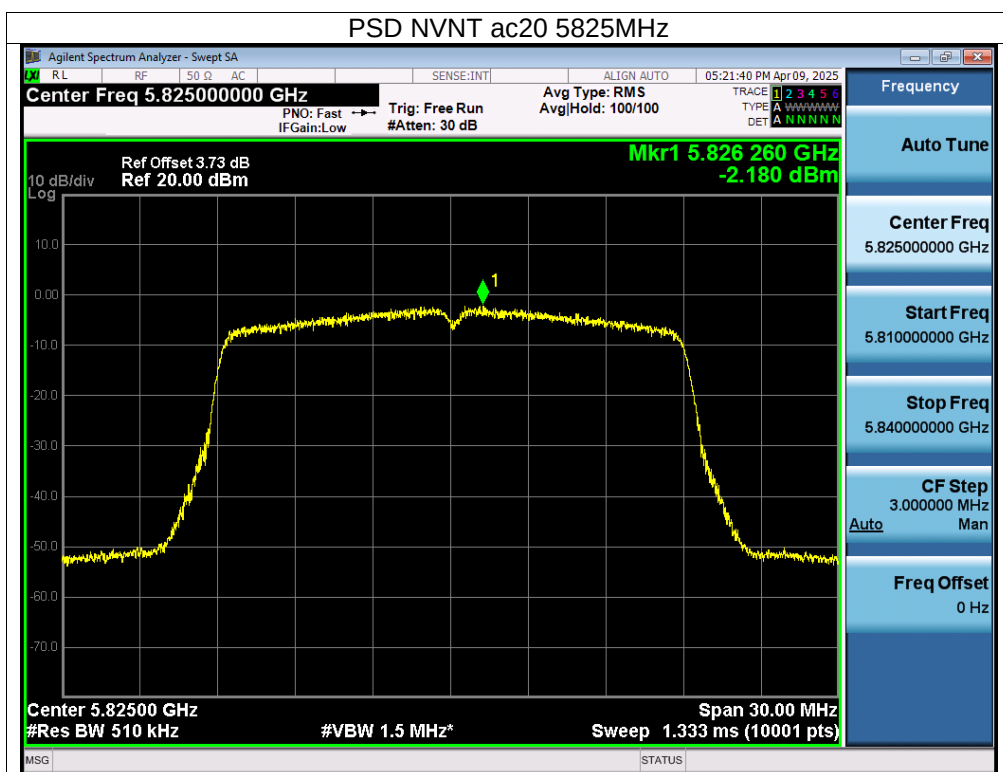


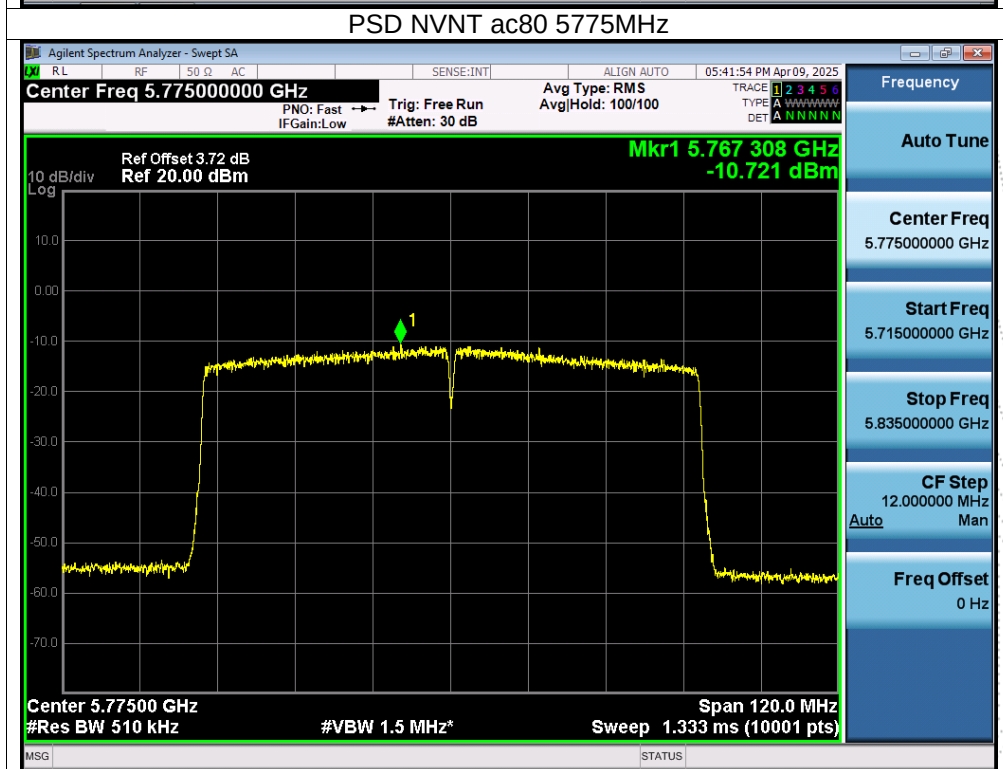
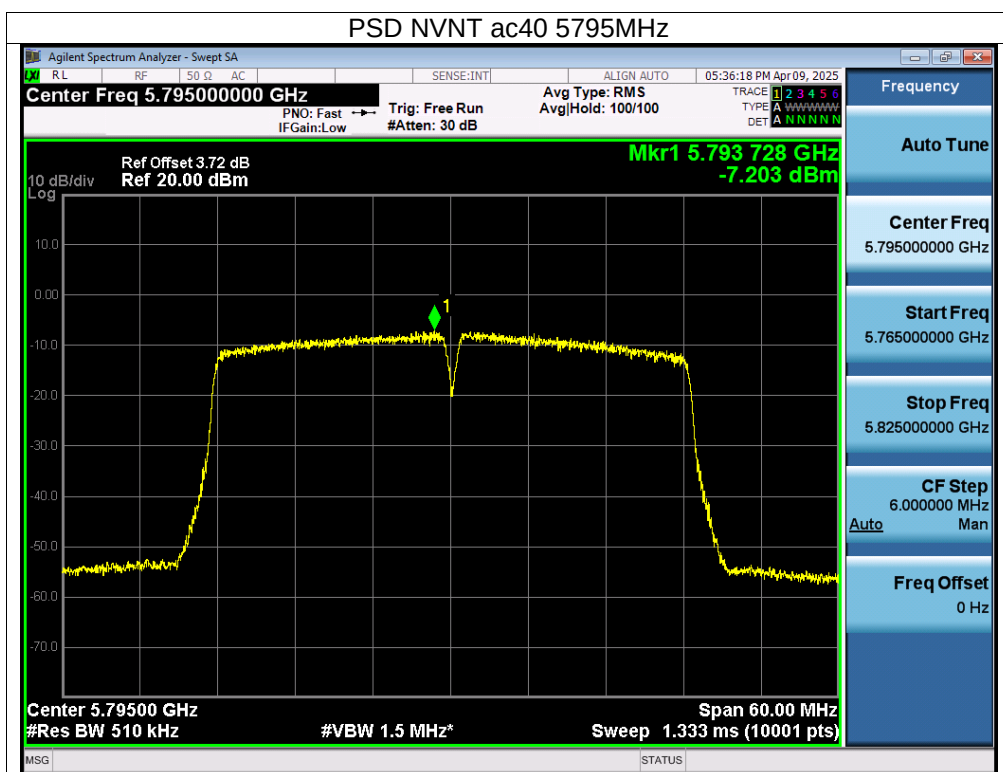


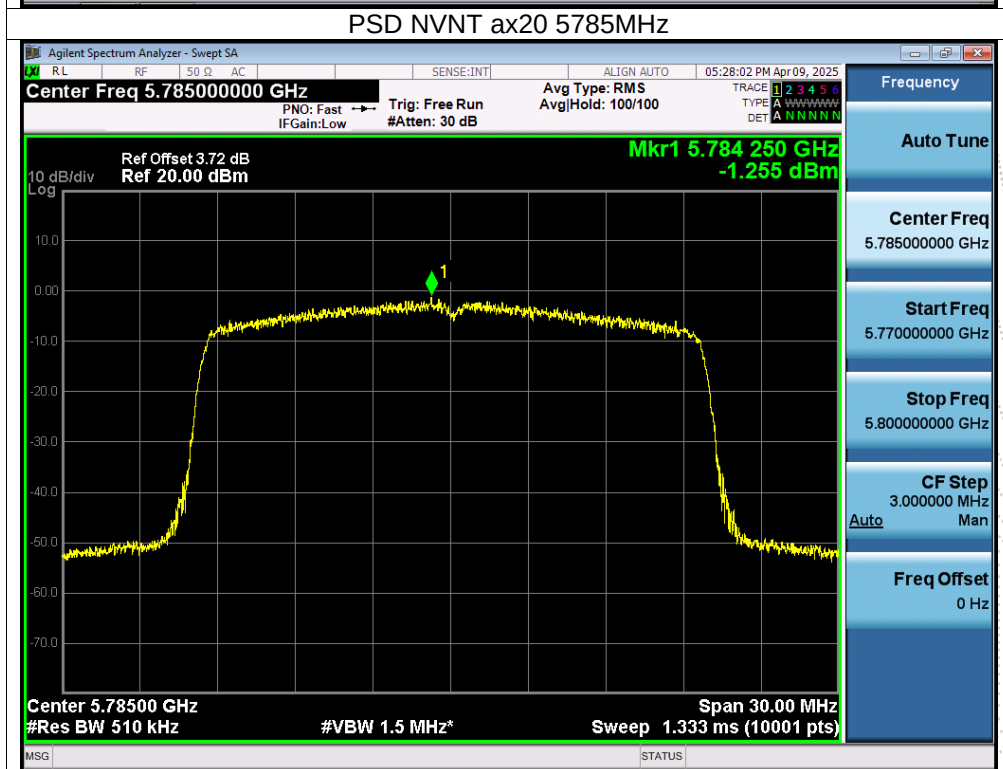
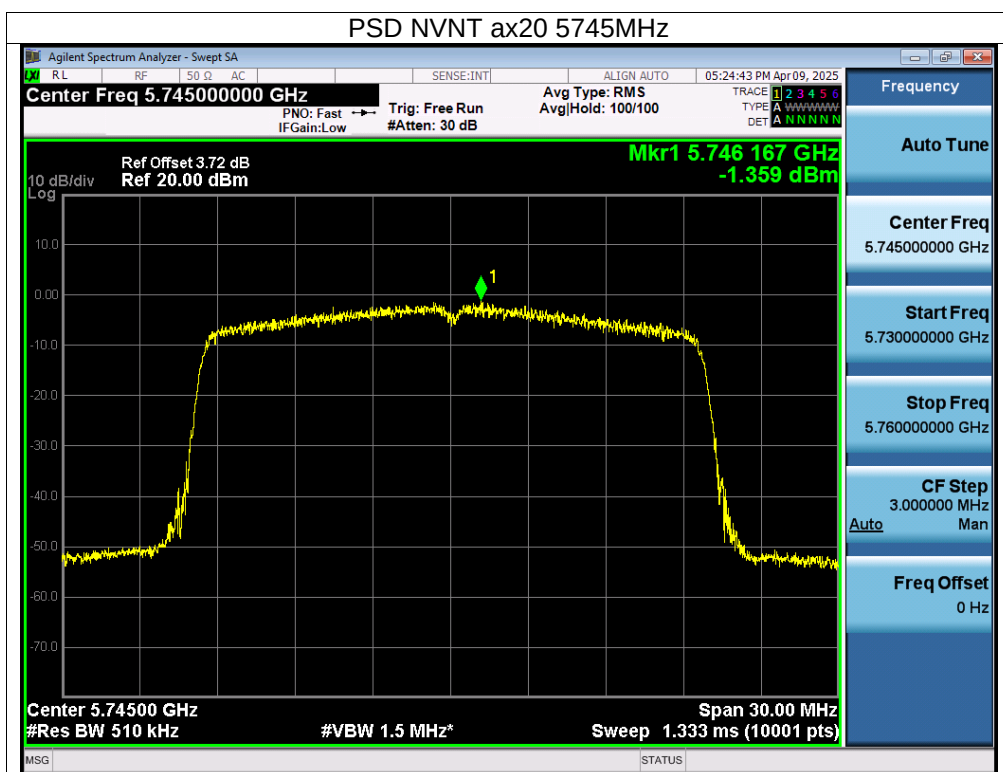


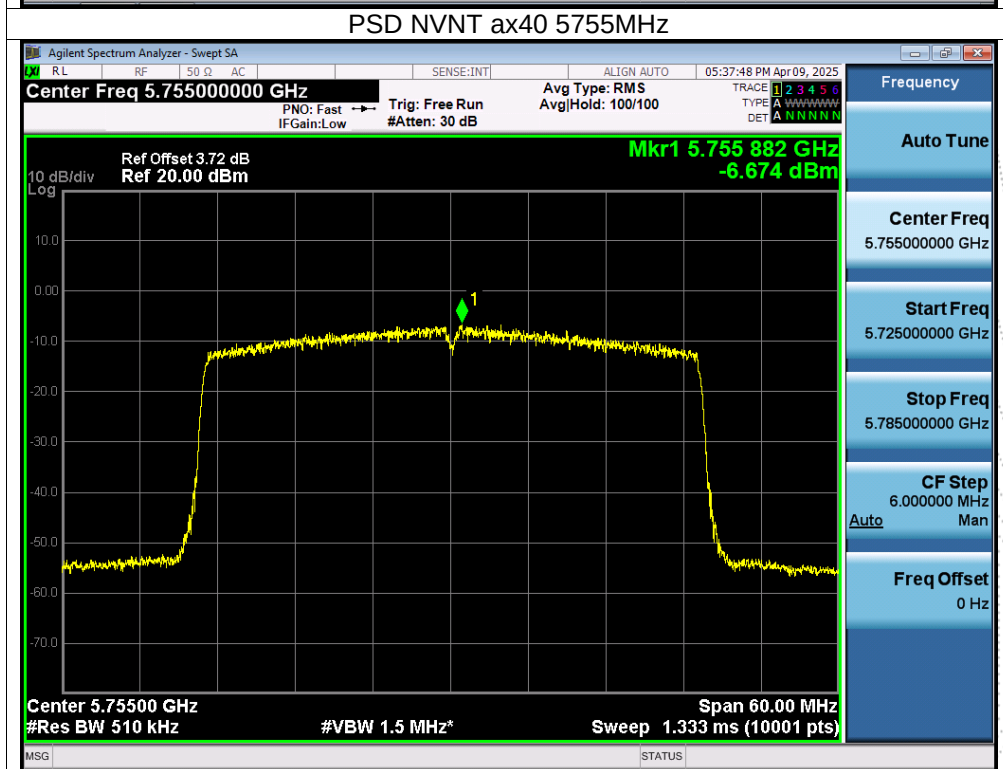
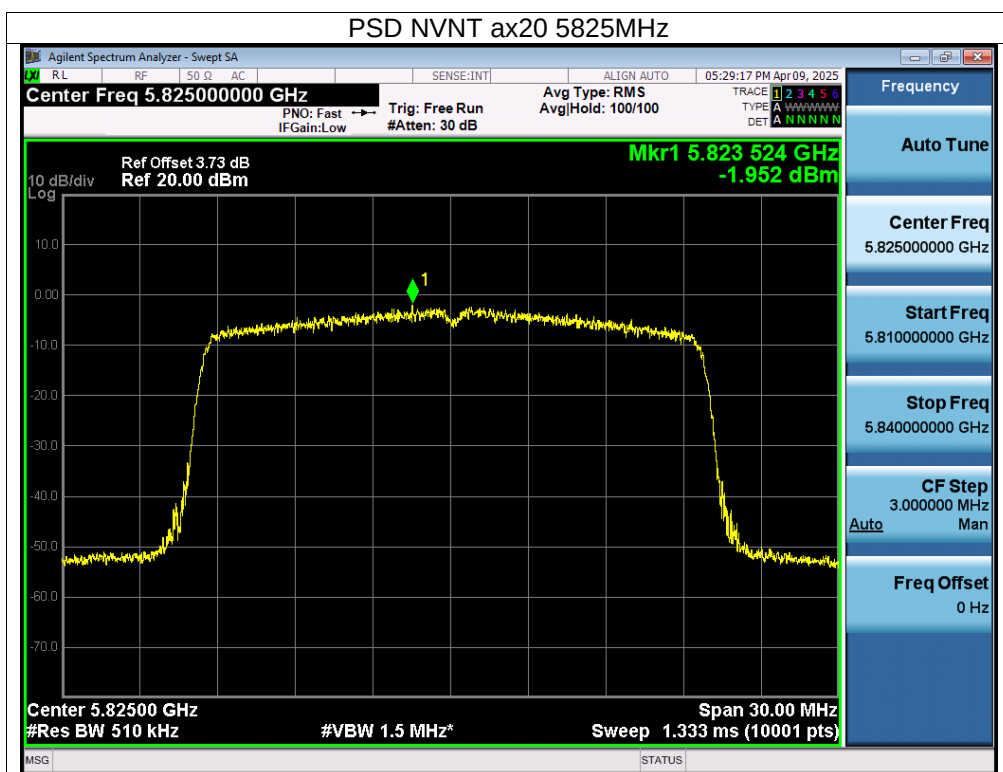


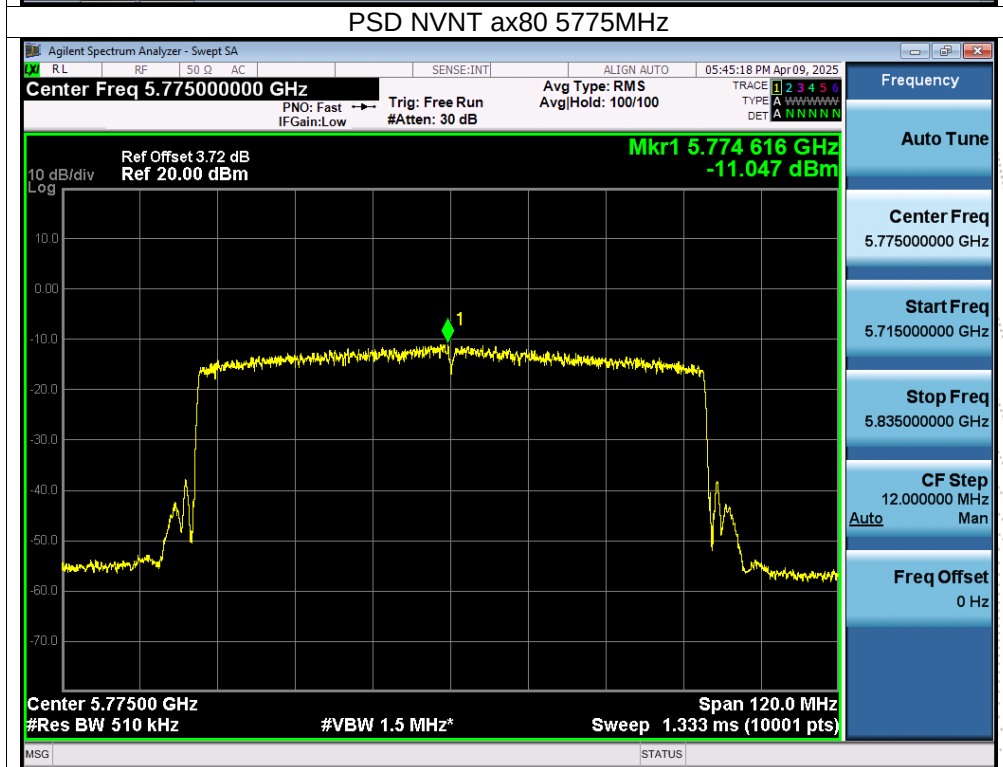
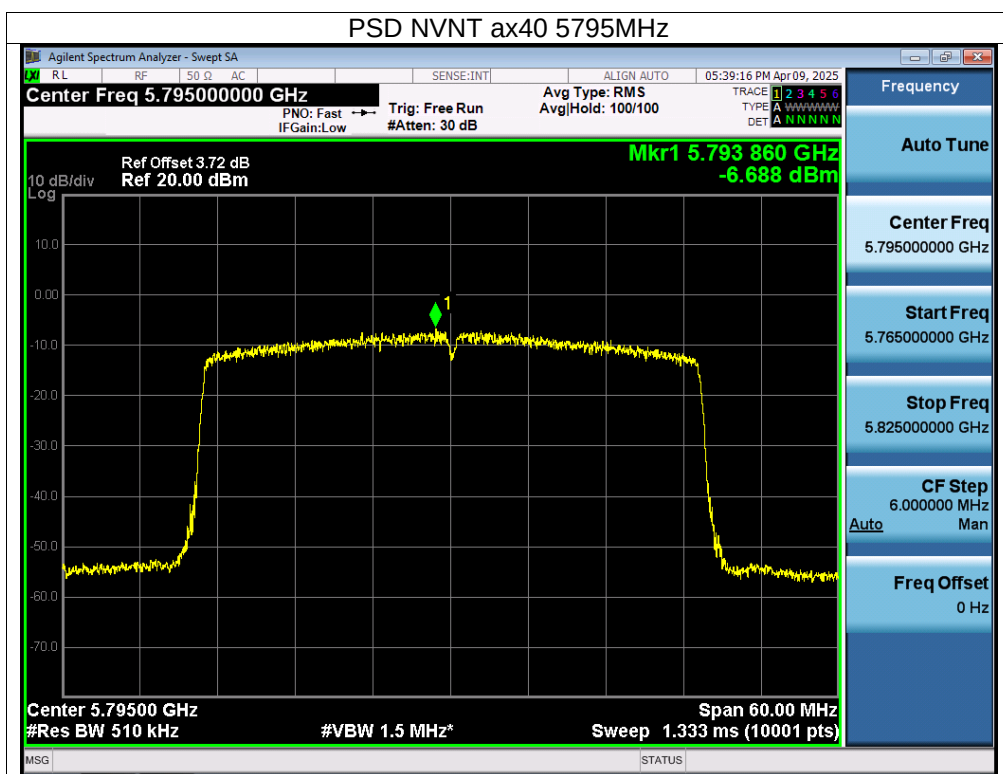






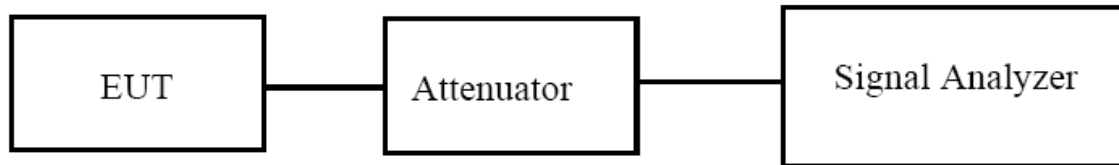






9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

(1) For the band 5.15-5.25 GHz.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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.

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.

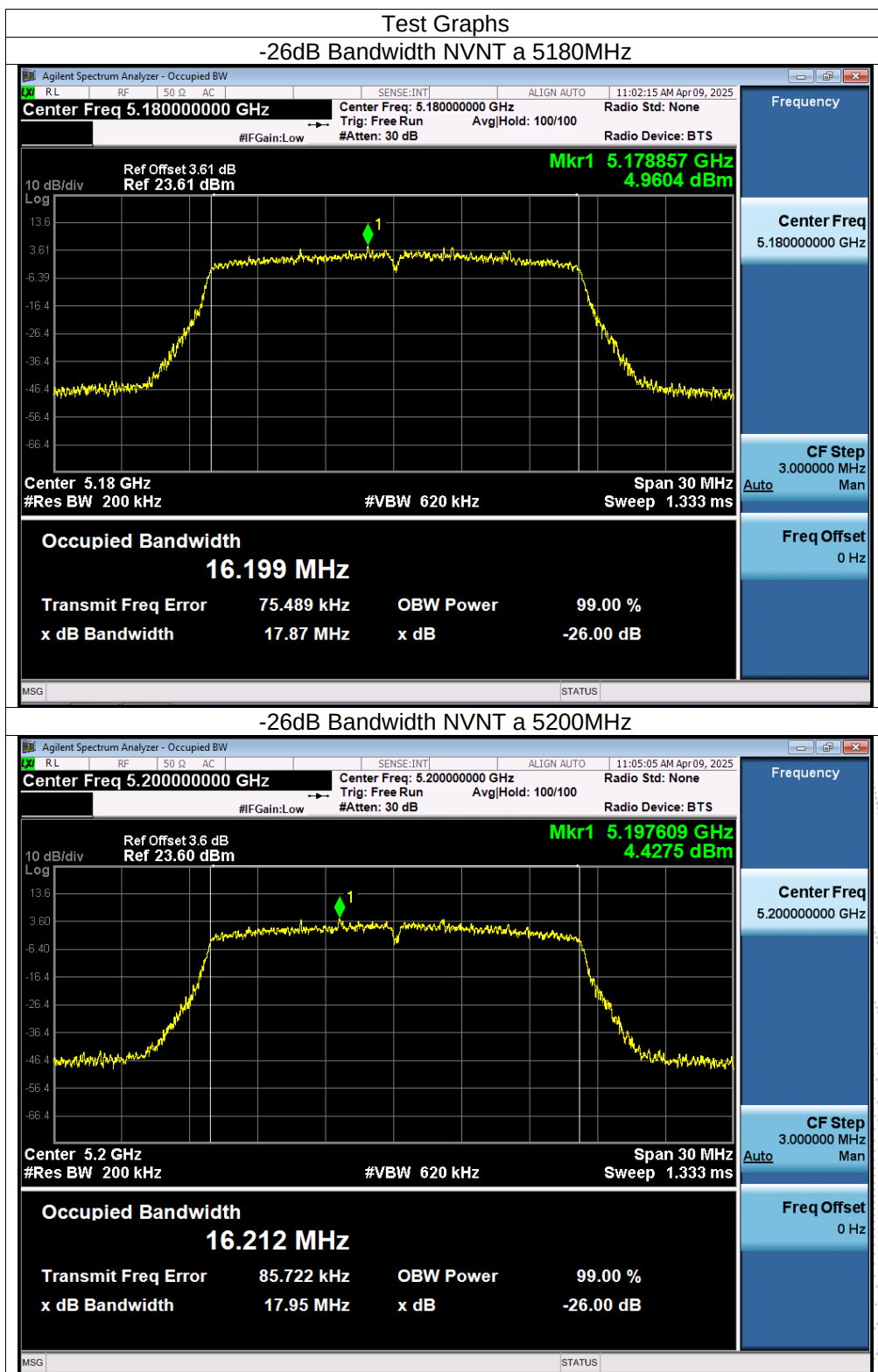
9.4 EUT Operating Conditions

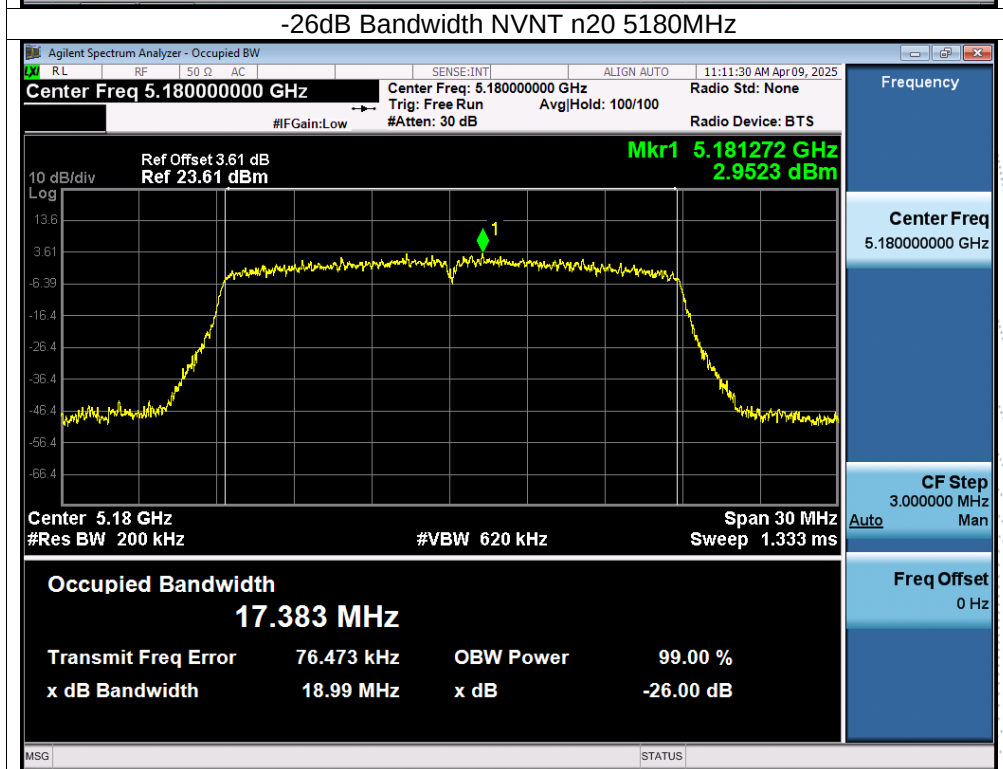
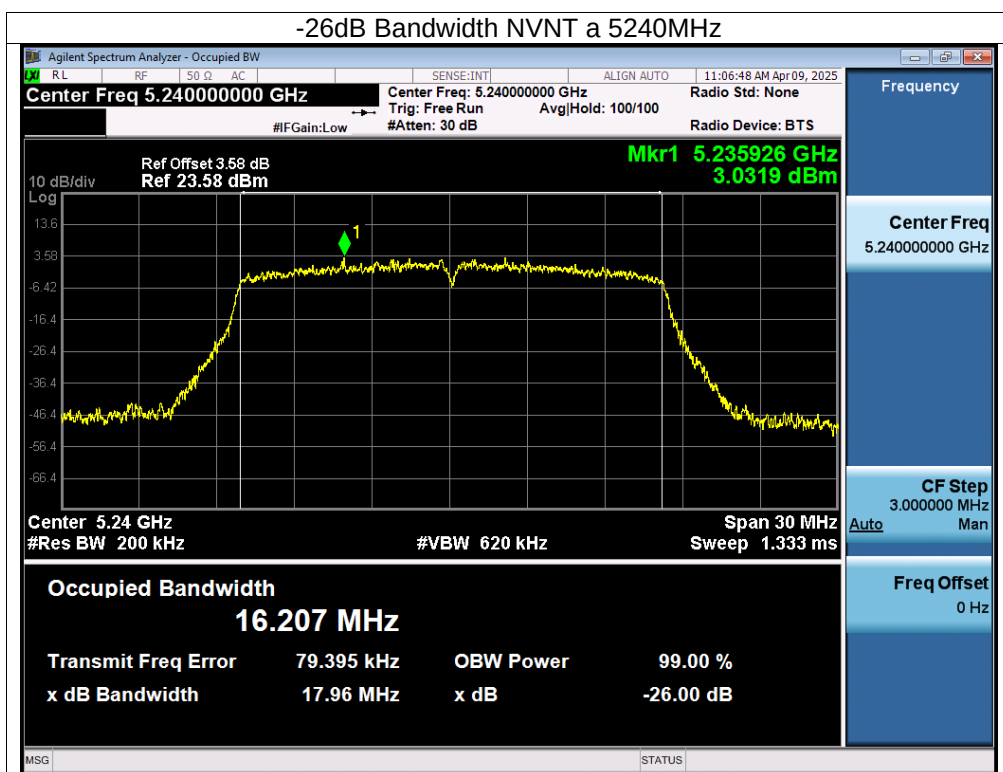
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

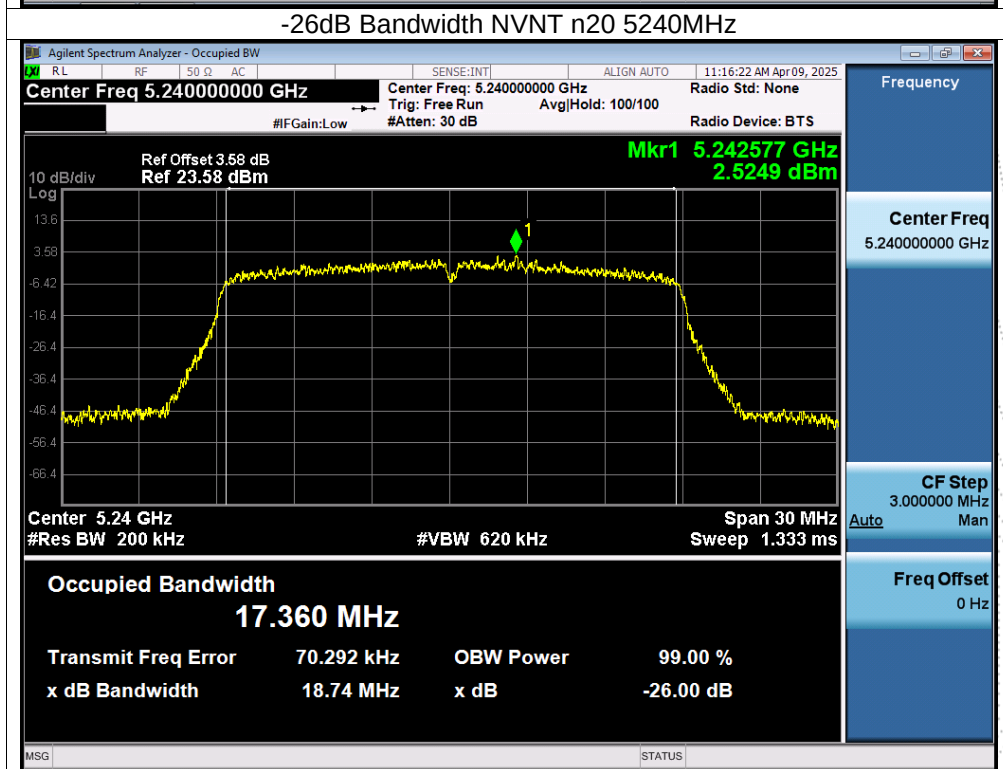
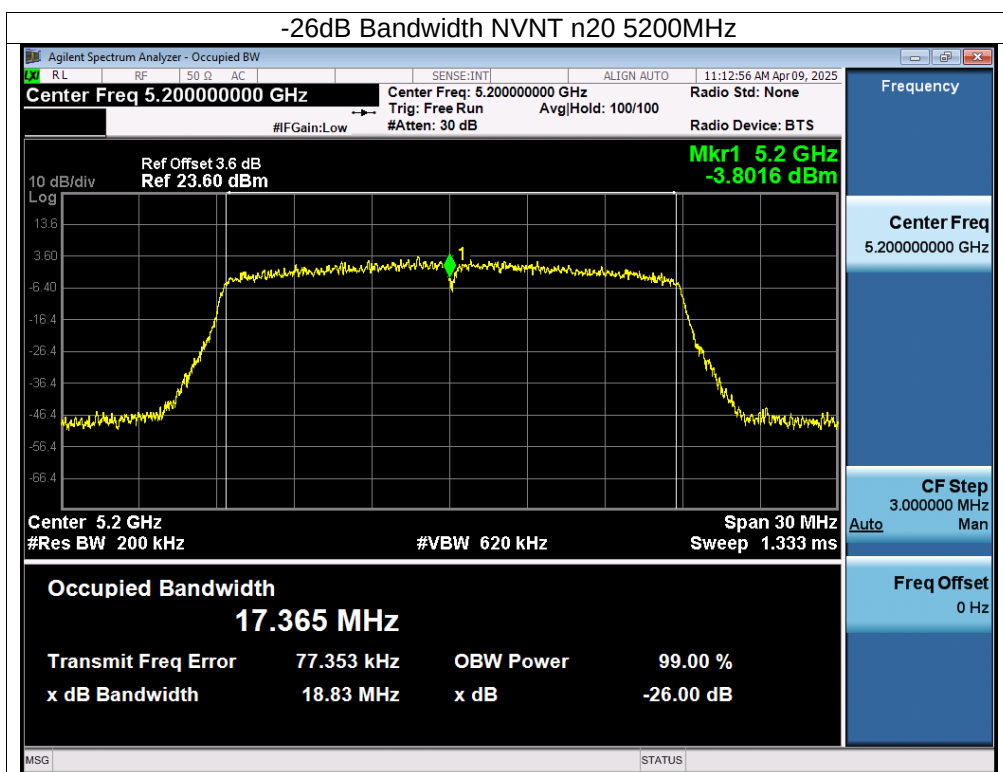
9.5 Test Result

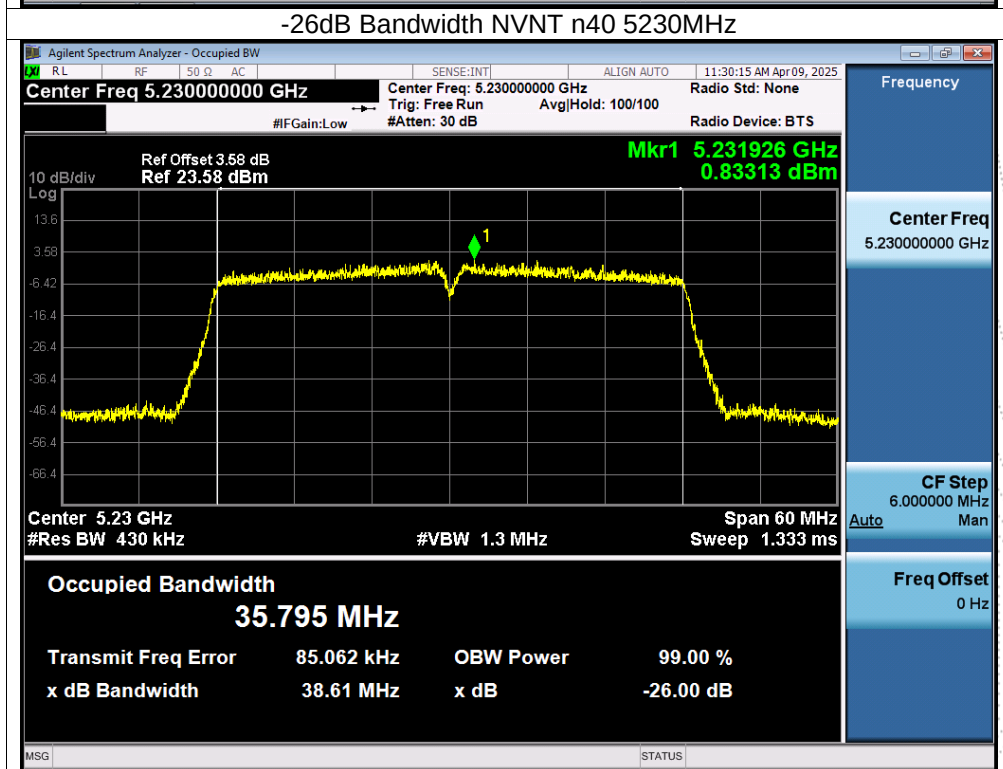
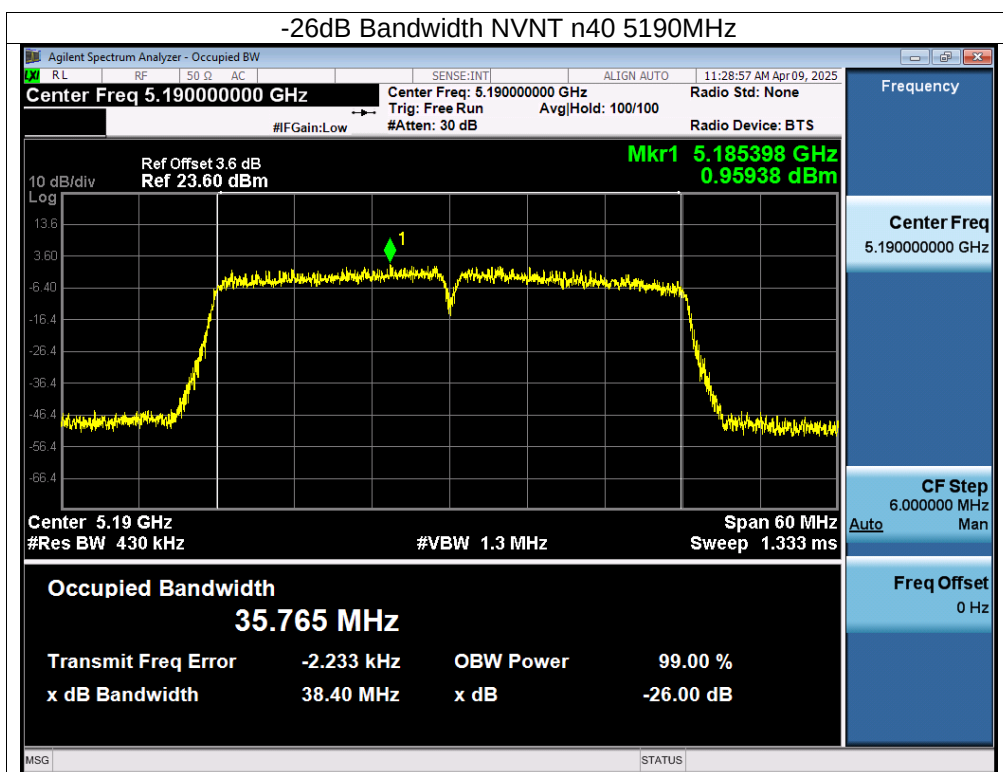
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.3V
Test Mode:	(U-NII-1) 5180MHz-5240MHz		

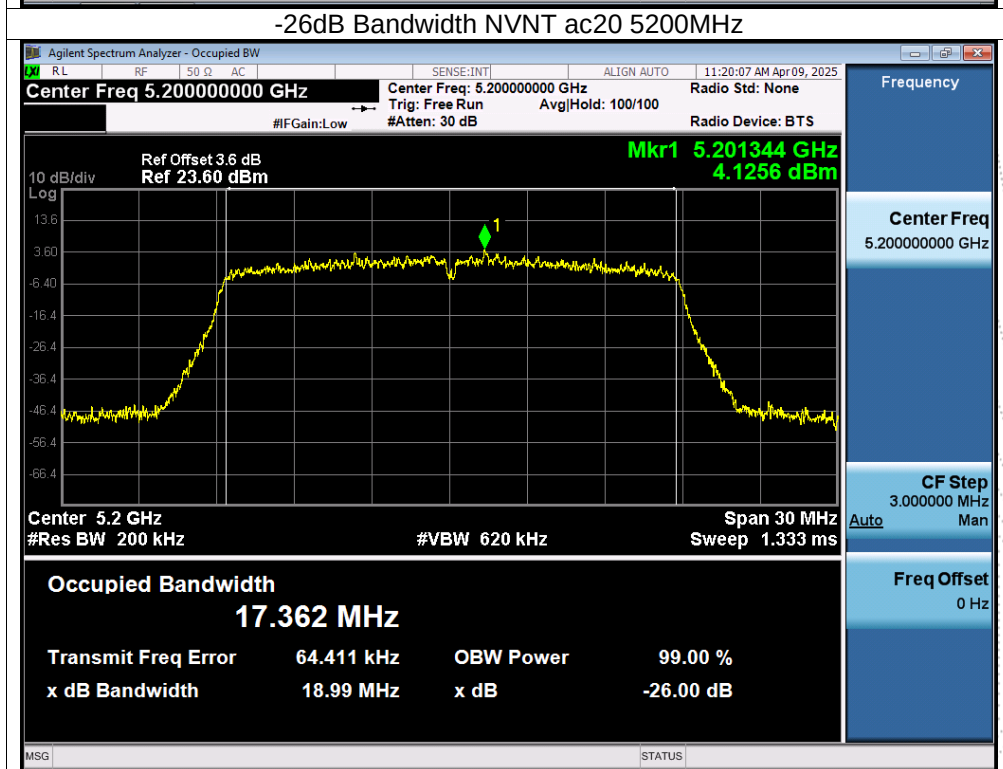
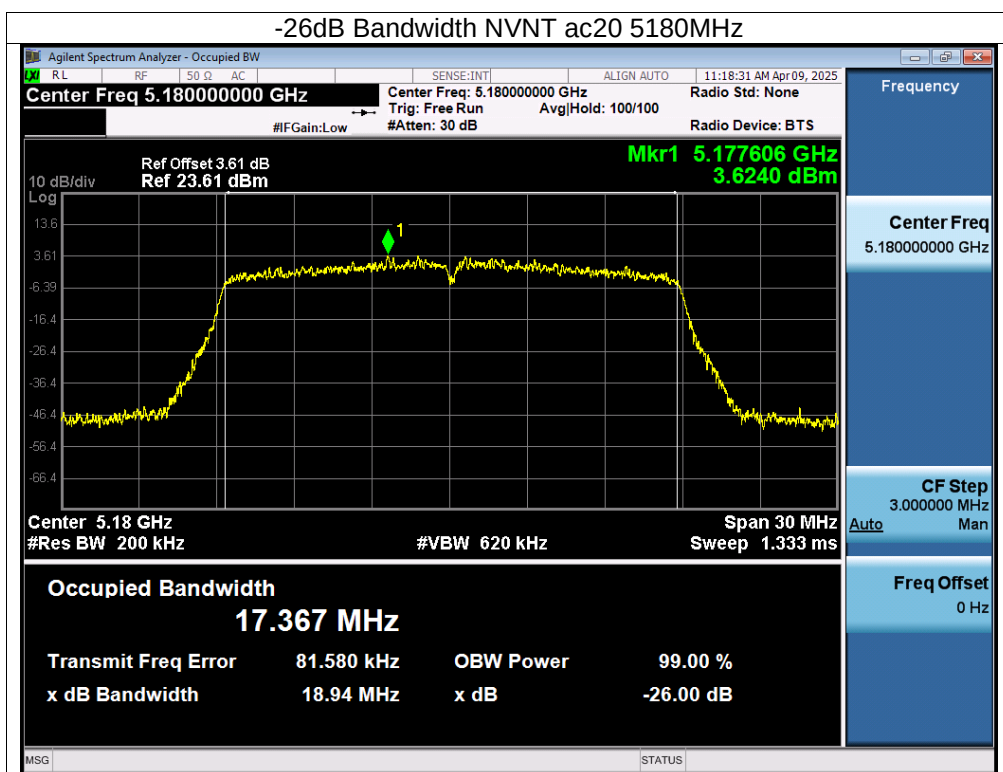
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.197	17.873	Pass
NVNT	a	5200	16.223	17.945	Pass
NVNT	a	5240	16.222	17.96	Pass
NVNT	n20	5180	17.366	18.991	Pass
NVNT	n20	5200	17.357	18.829	Pass
NVNT	n20	5240	17.36	18.738	Pass
NVNT	n40	5190	35.8	38.395	Pass
NVNT	n40	5230	35.801	38.614	Pass
NVNT	ac20	5180	17.37	18.939	Pass
NVNT	ac20	5200	17.382	18.989	Pass
NVNT	ac20	5240	17.379	19.059	Pass
NVNT	ac40	5190	35.813	38.361	Pass
NVNT	ac40	5230	35.856	38.304	Pass
NVNT	ac80	5210	75.106	78.869	Pass
NVNT	ax20	5180	18.716	19.804	Pass
NVNT	ax20	5200	18.687	19.848	Pass
NVNT	ax20	5240	18.72	20.145	Pass
NVNT	ax40	5190	37.418	39.496	Pass
NVNT	ax40	5230	37.518	39.356	Pass
NVNT	ax80	5210	76.9	80.98	Pass

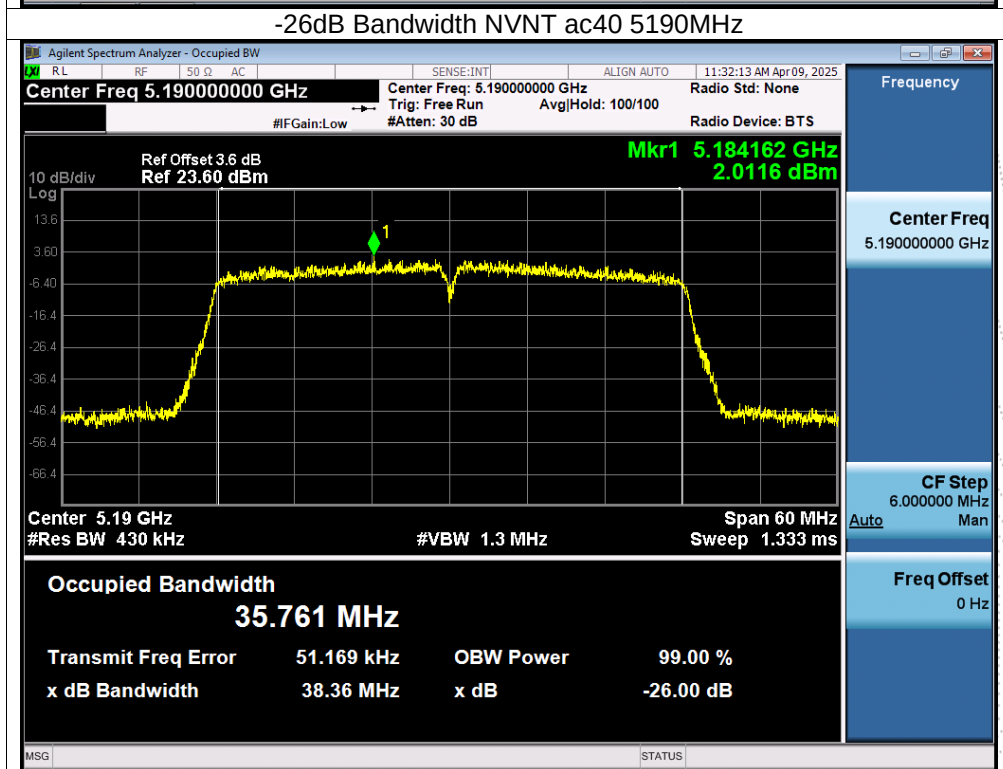
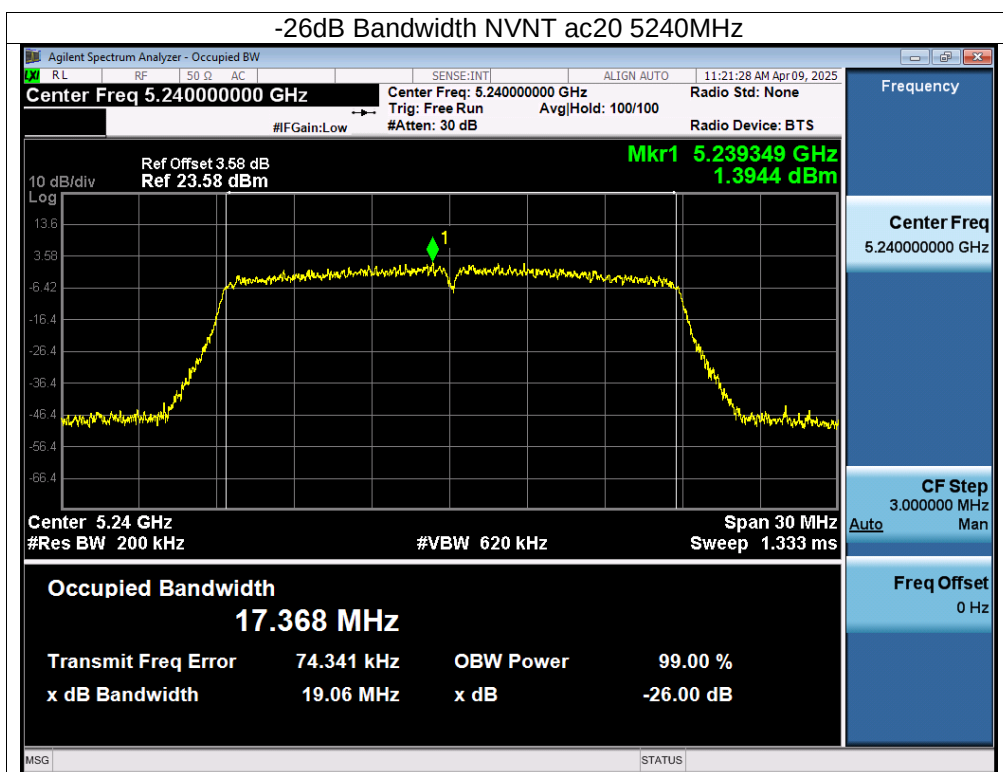


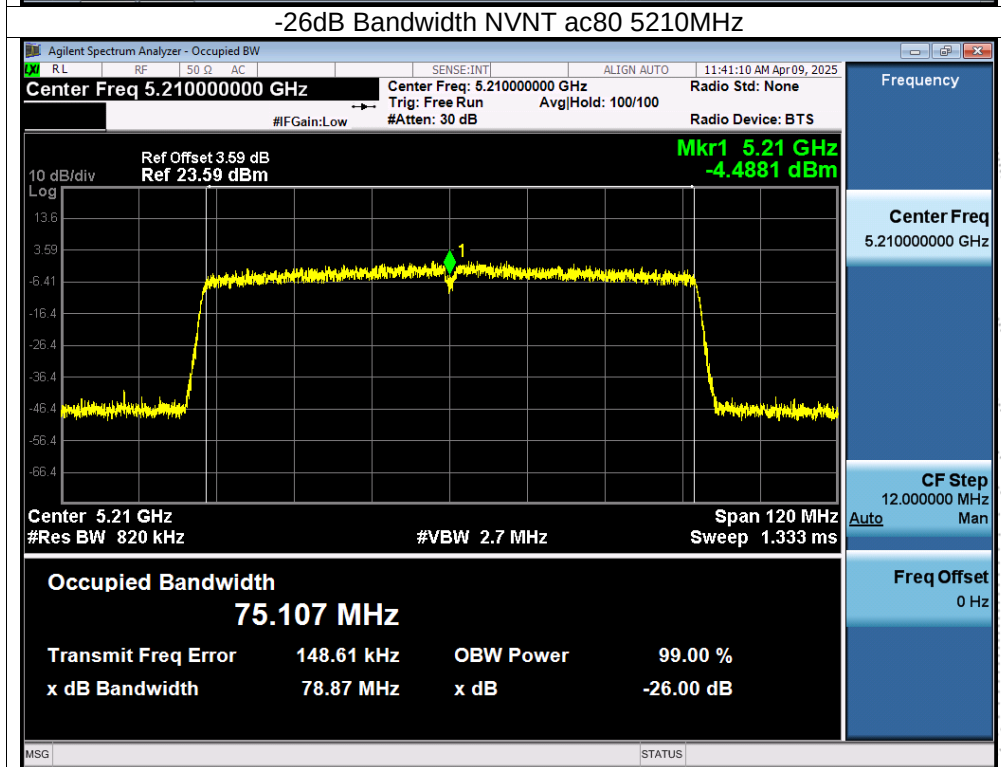
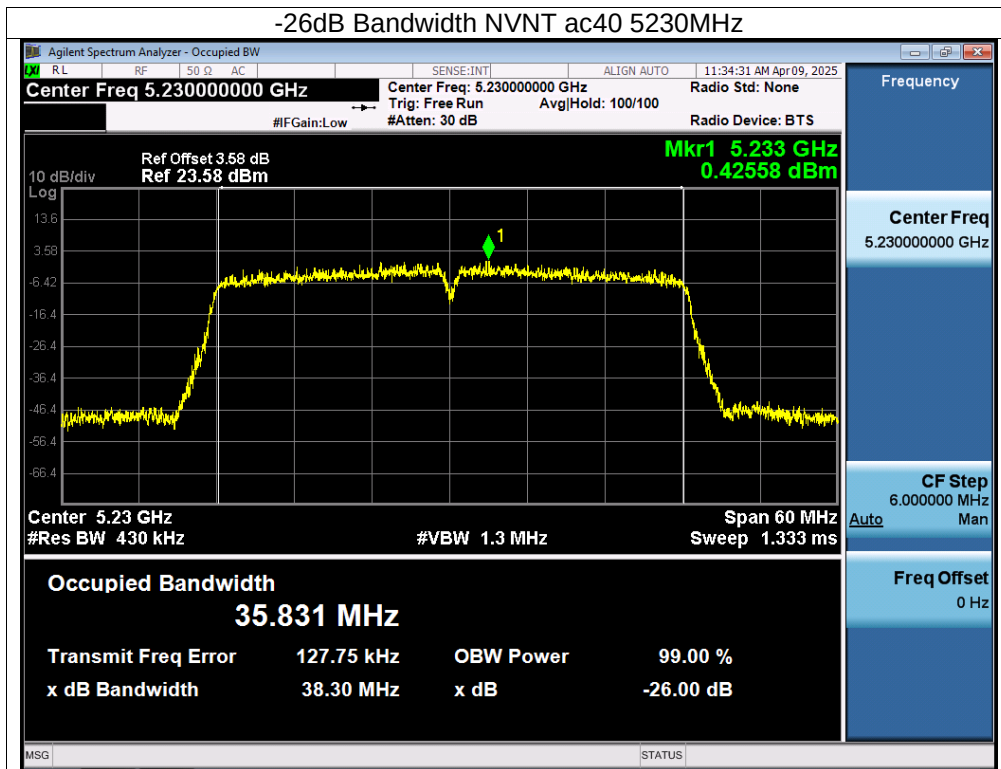


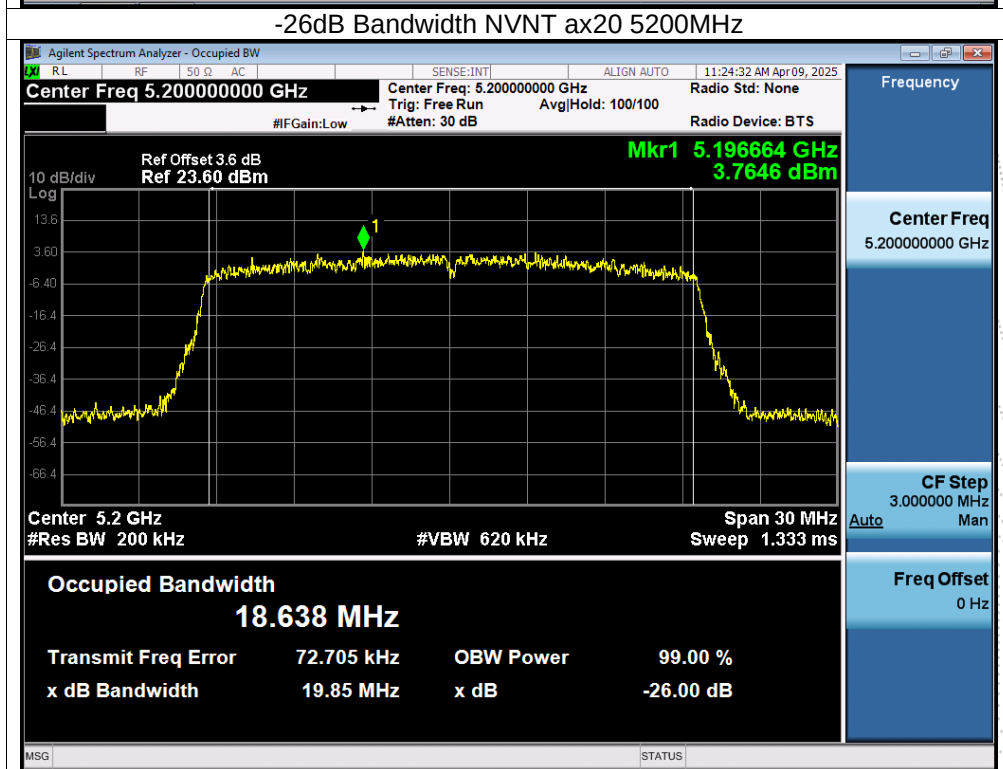
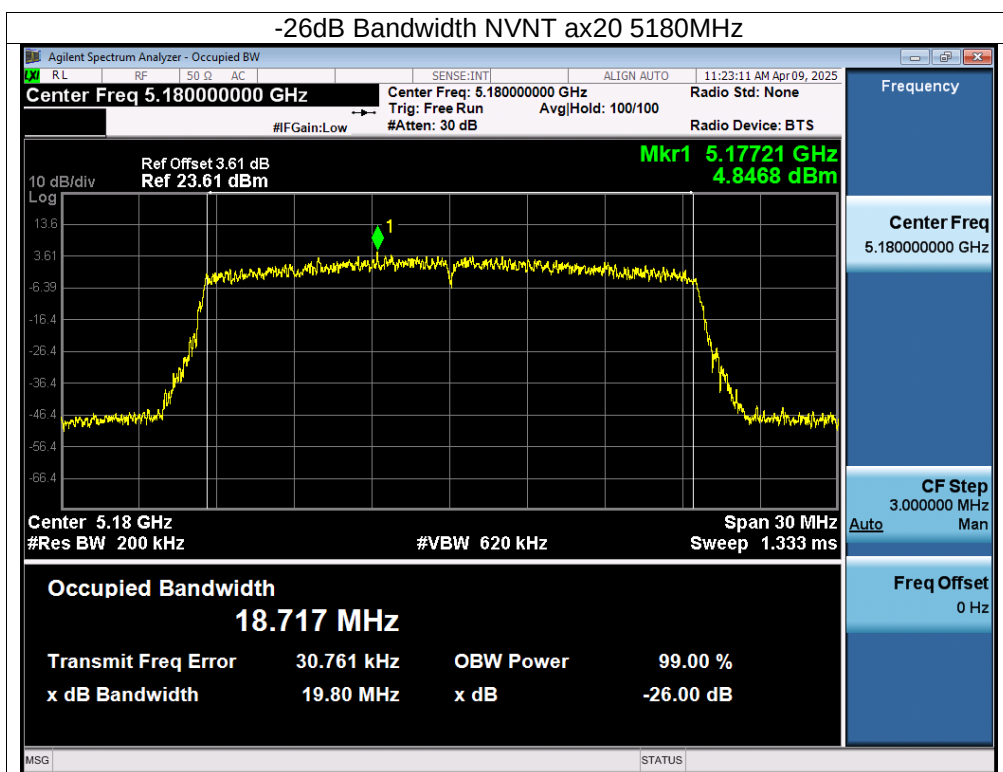


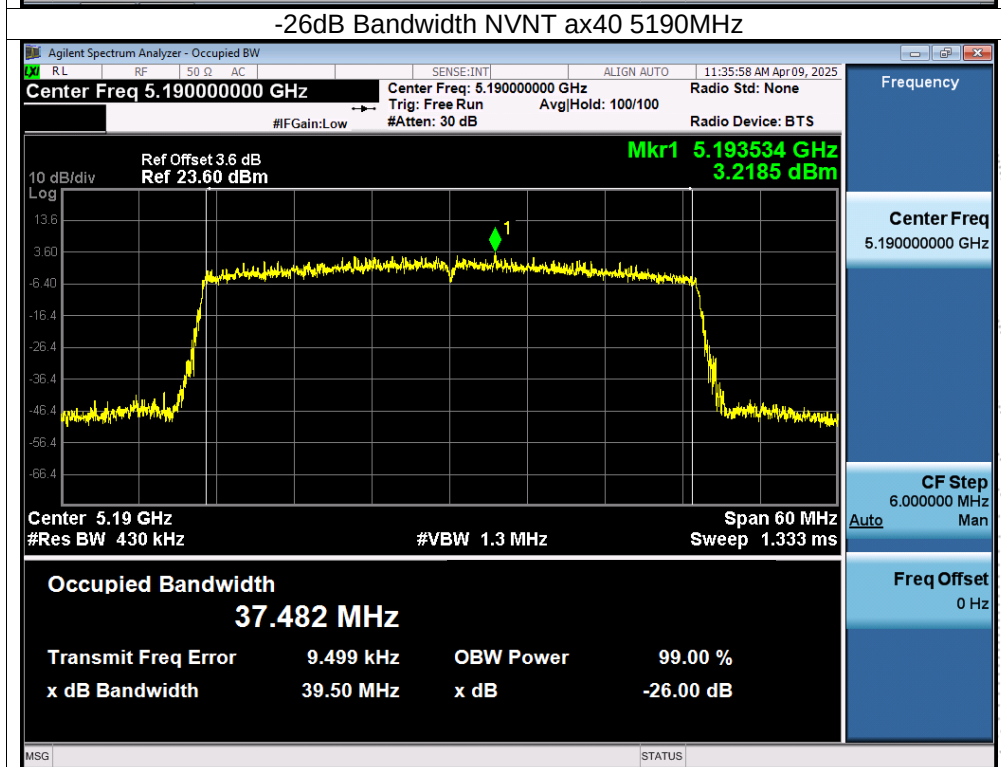
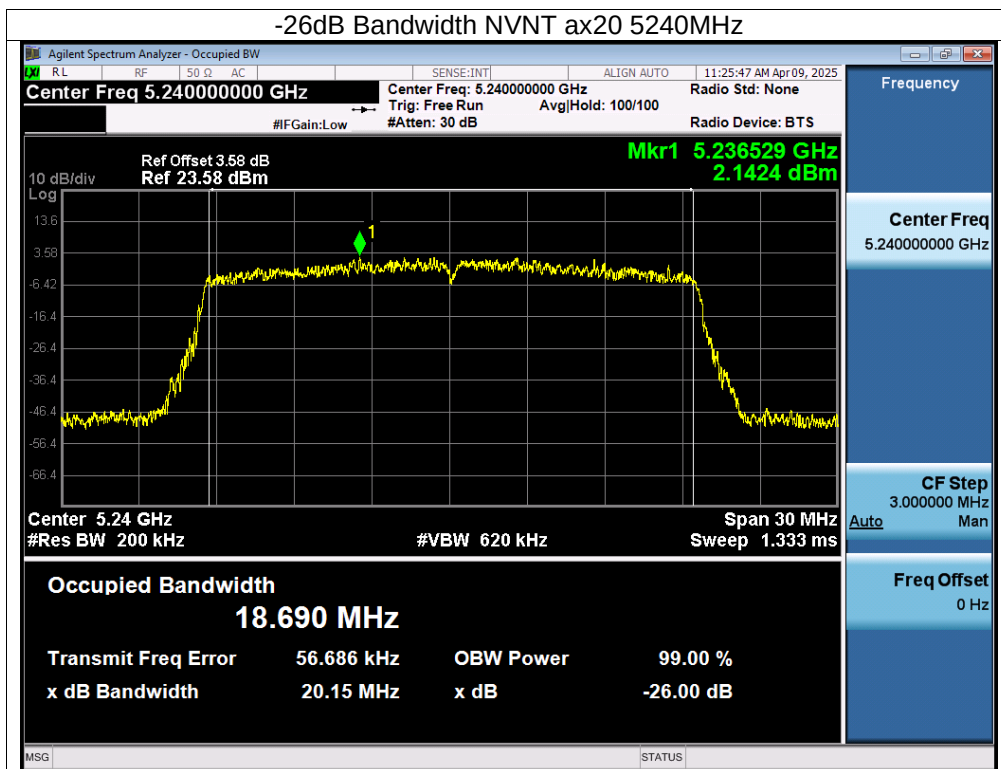


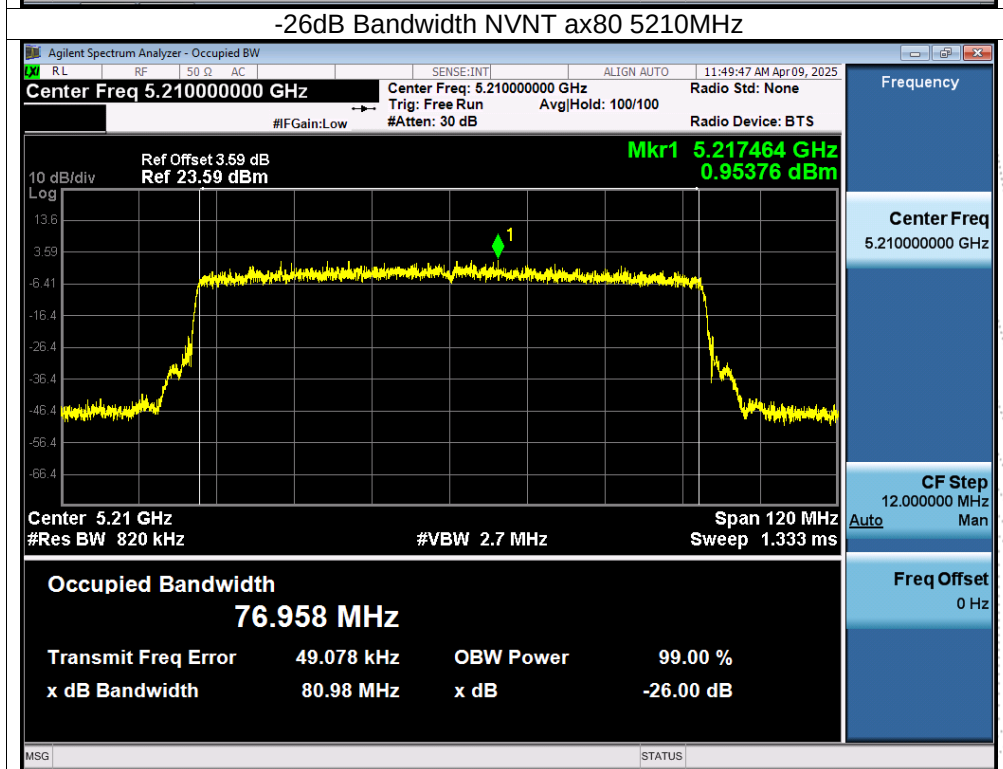
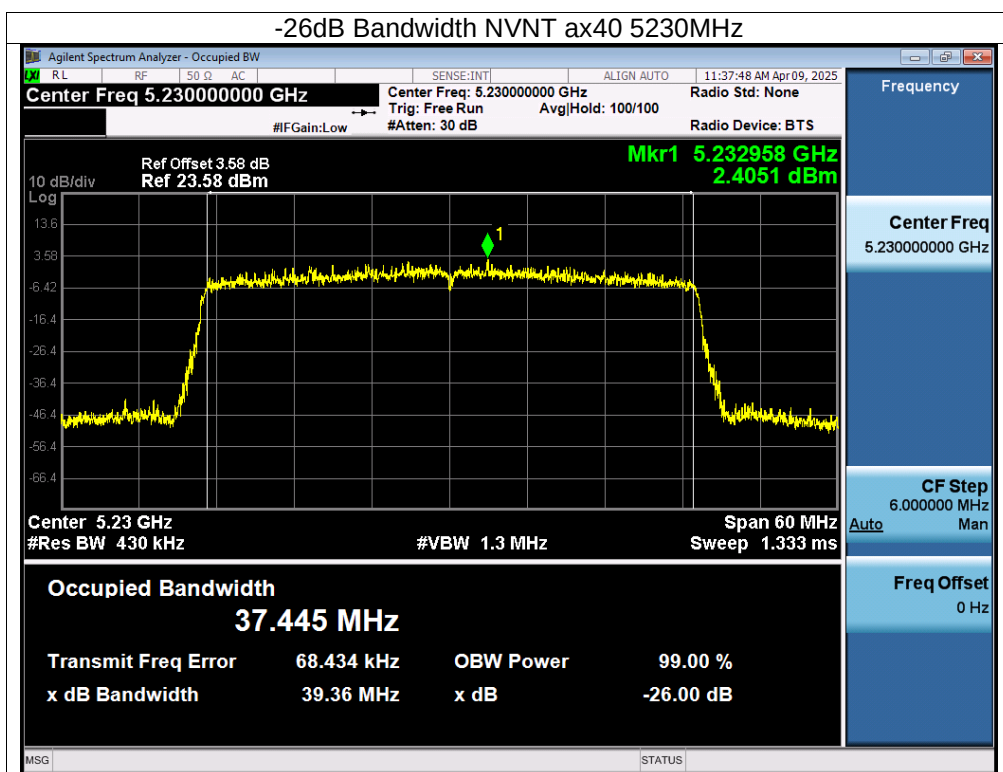


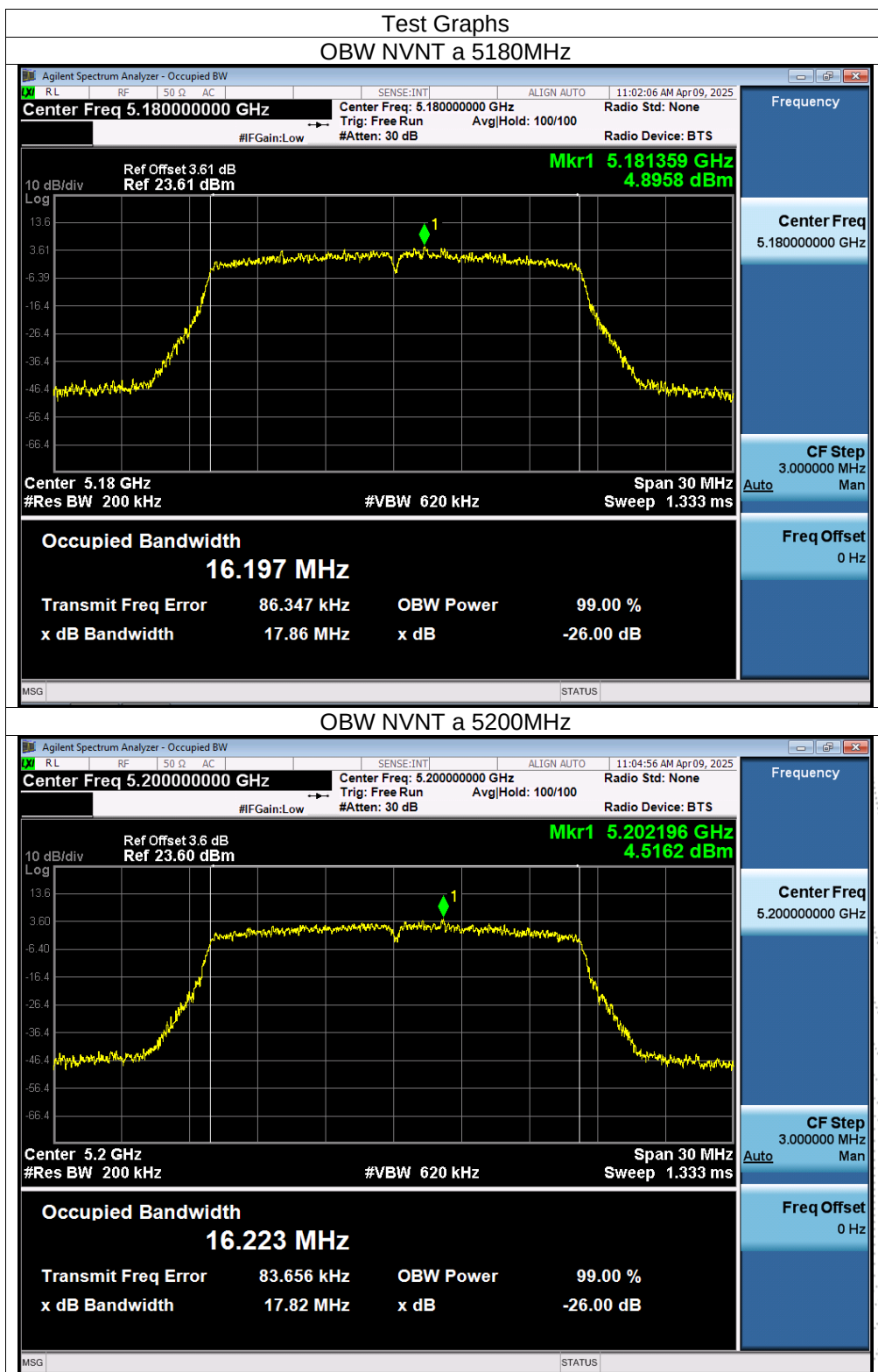


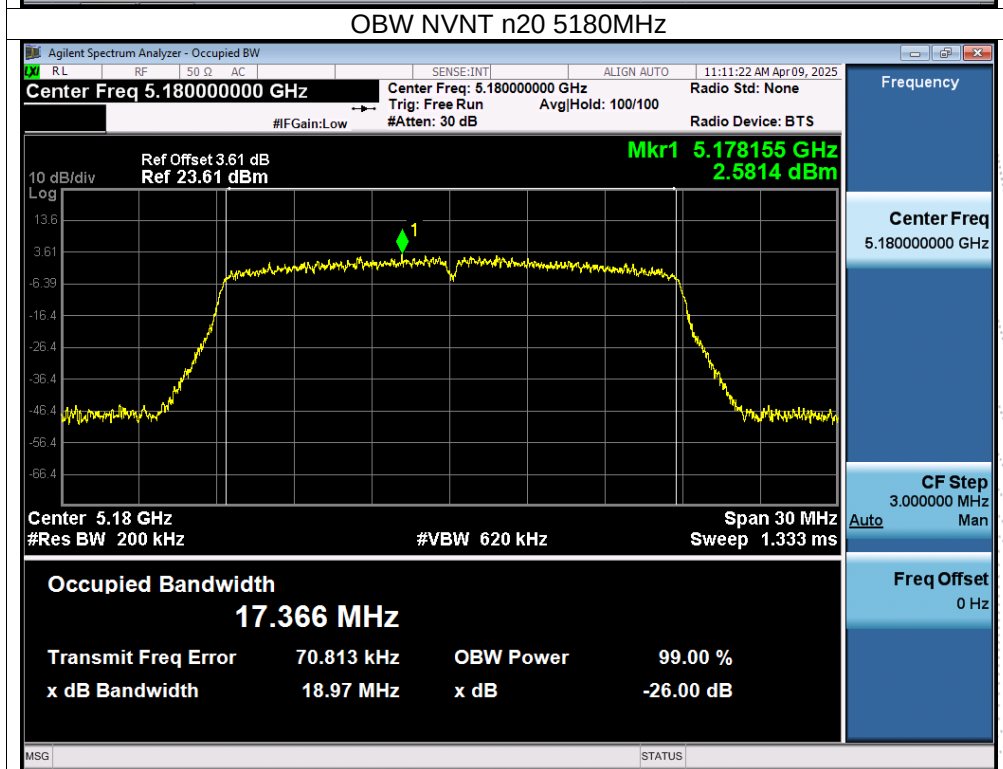
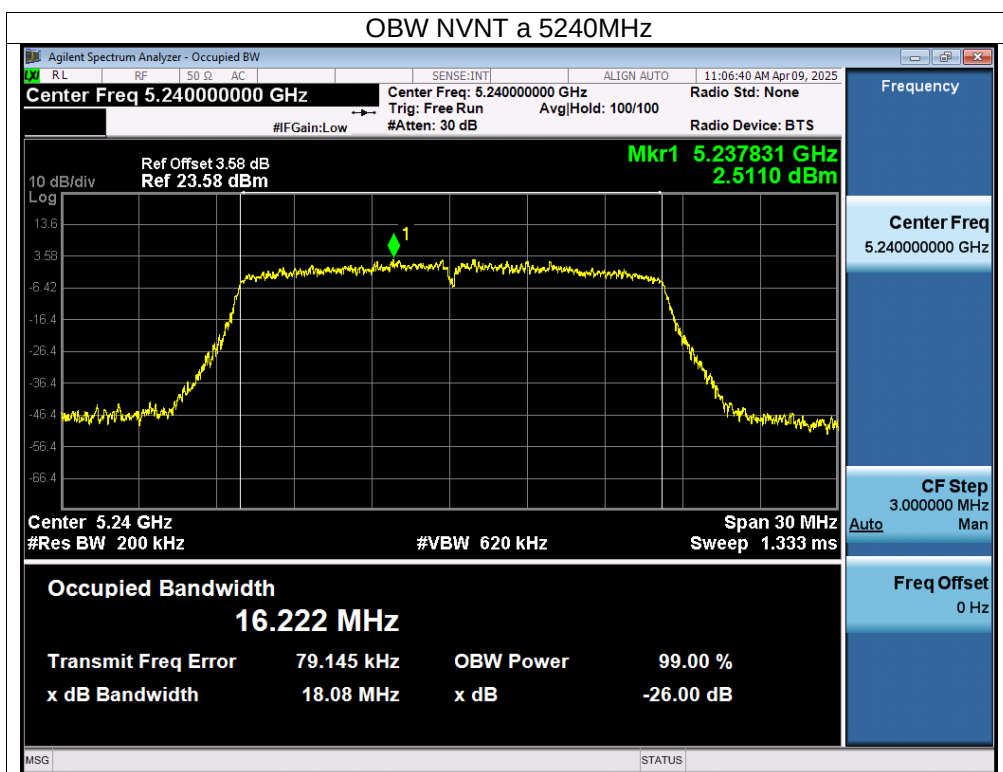


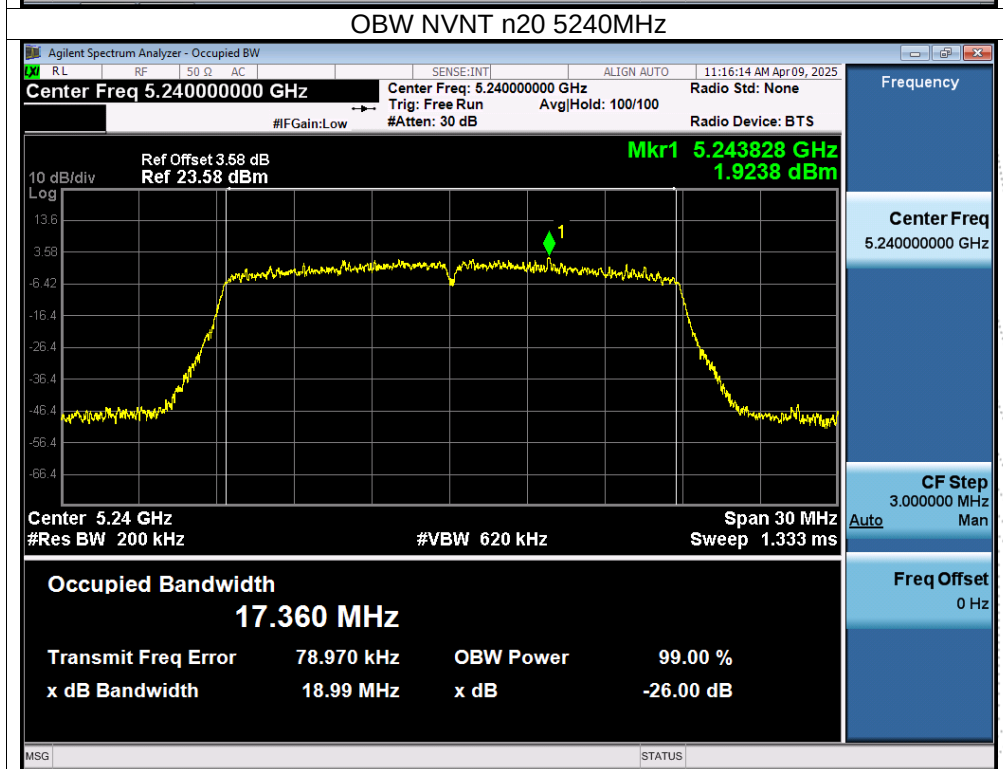
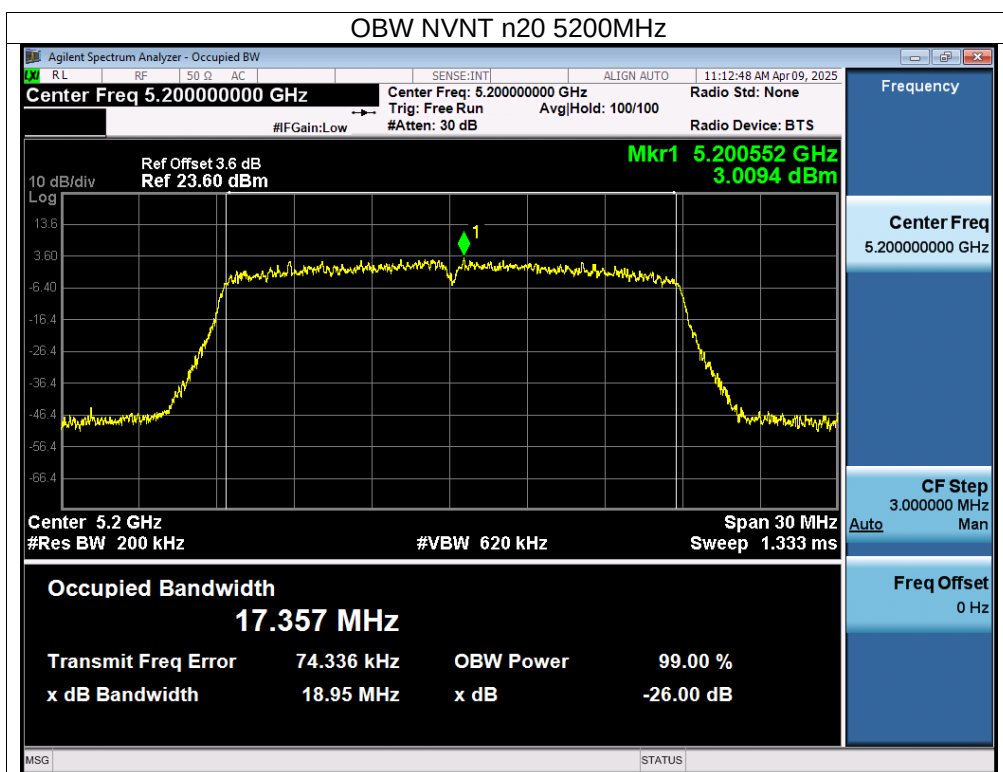


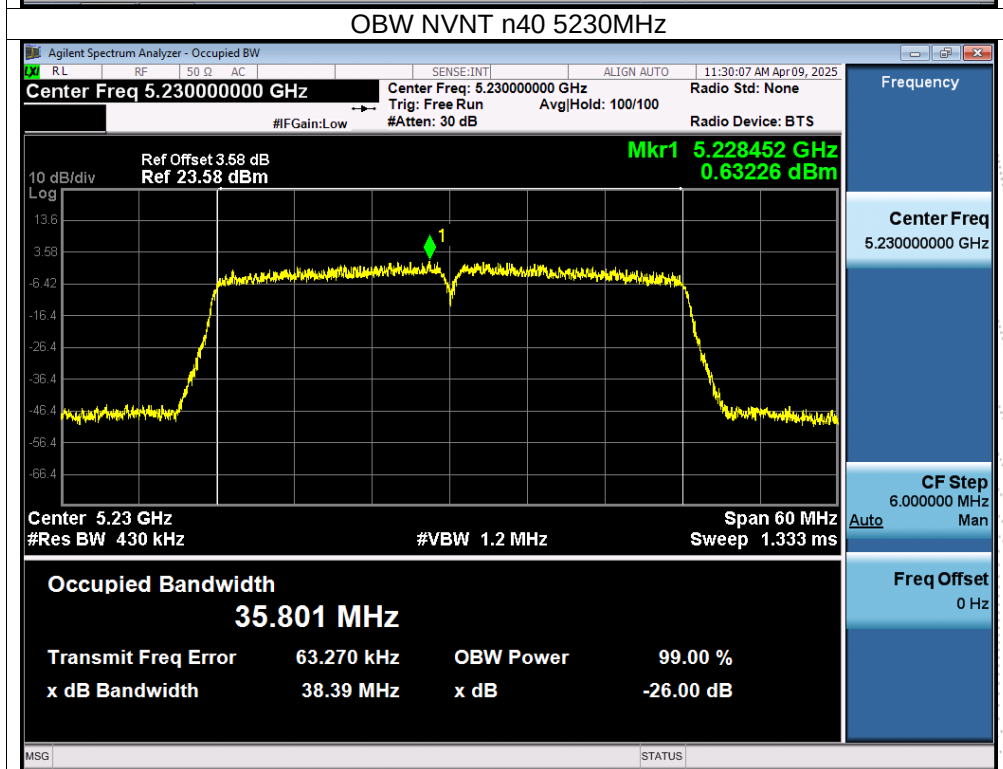
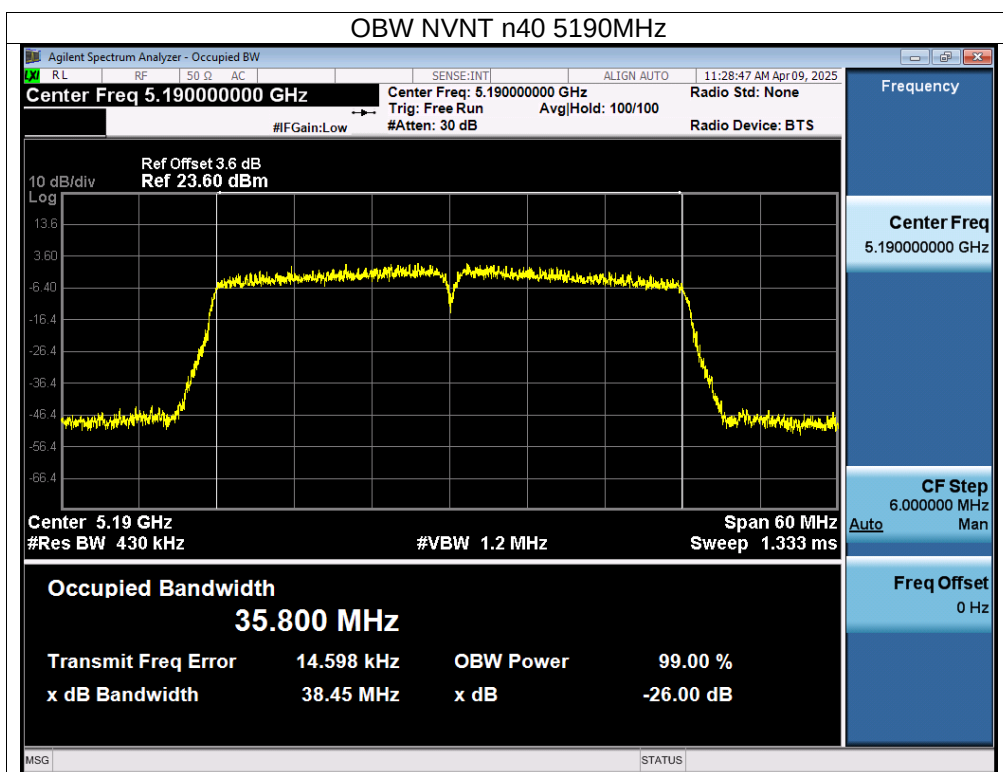


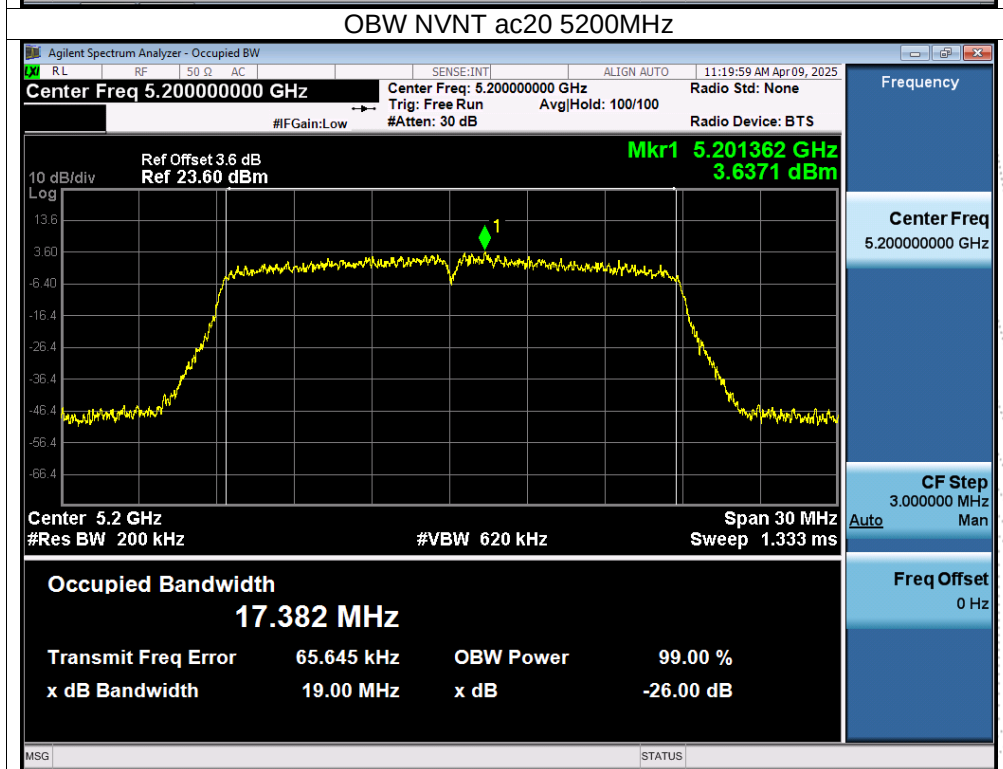
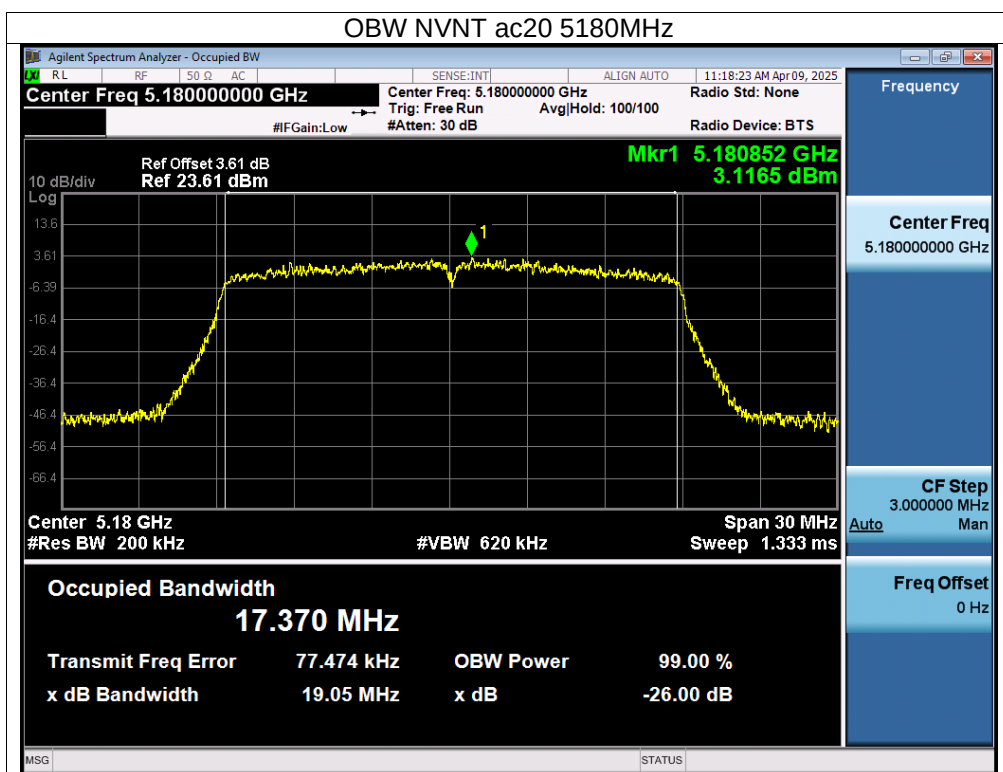


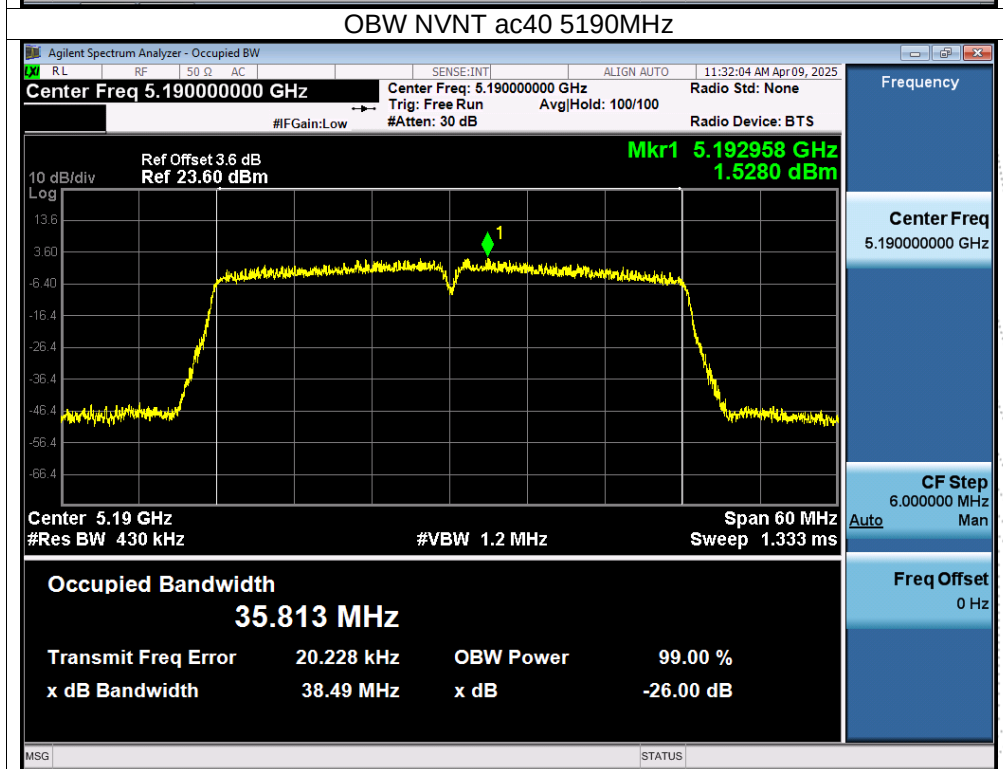
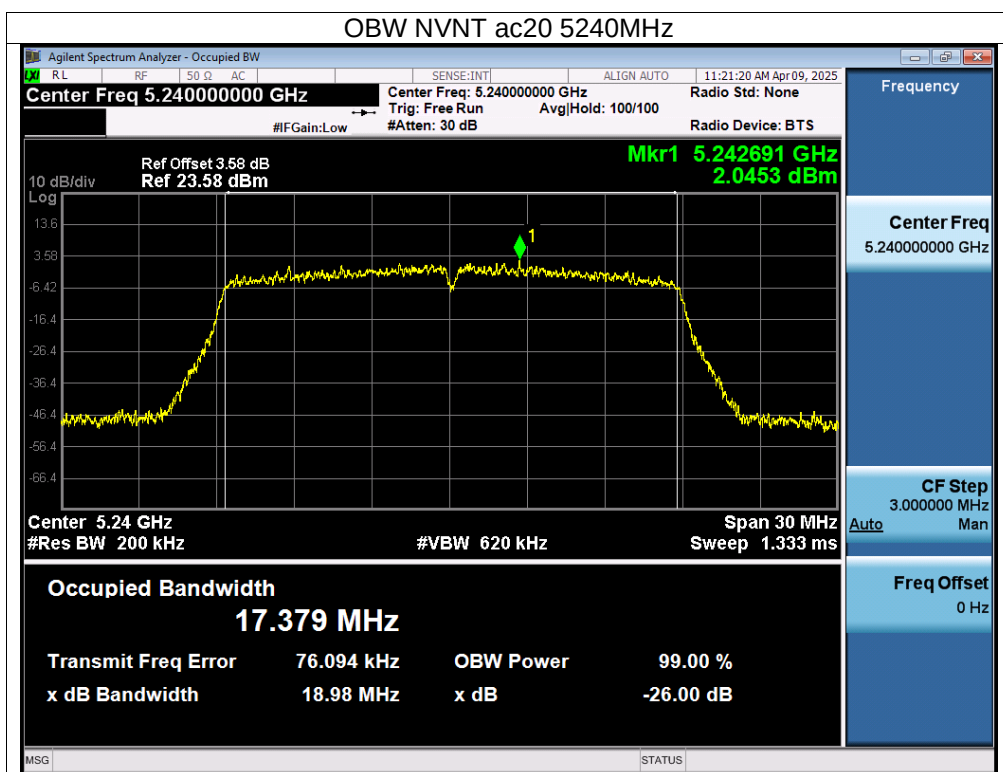


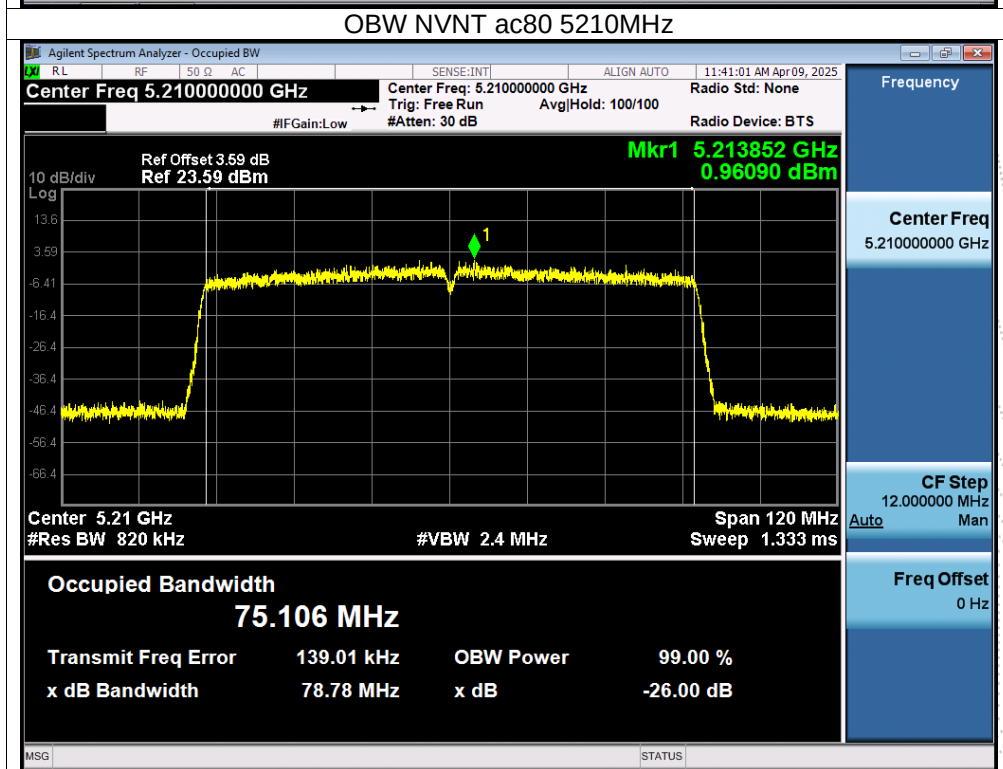
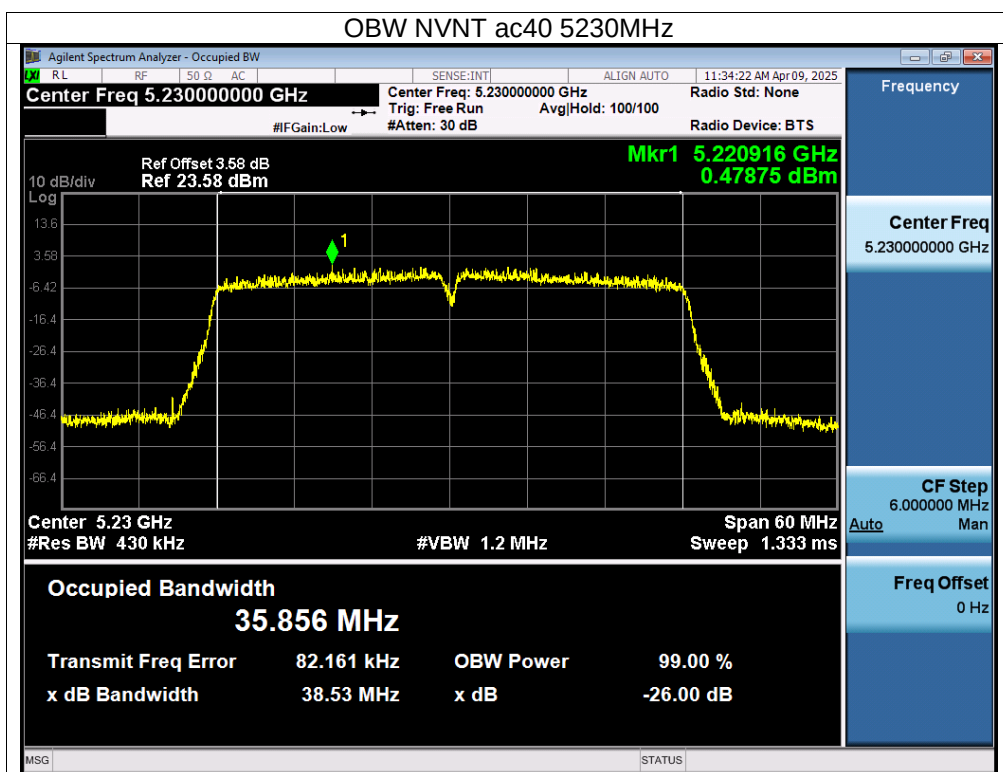


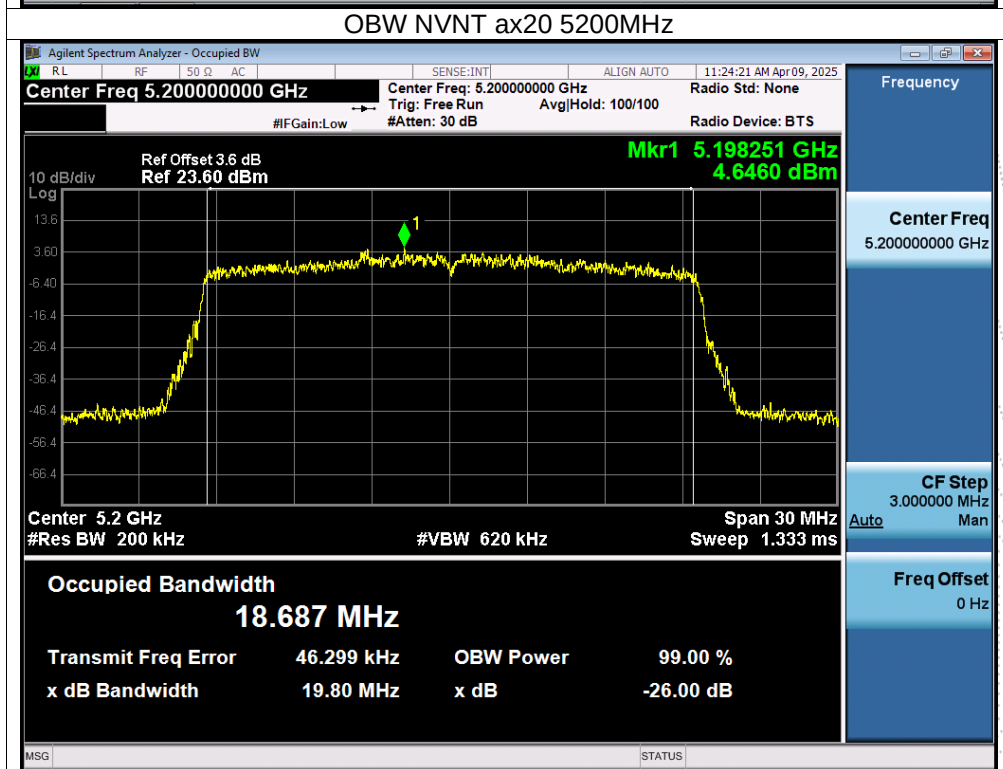
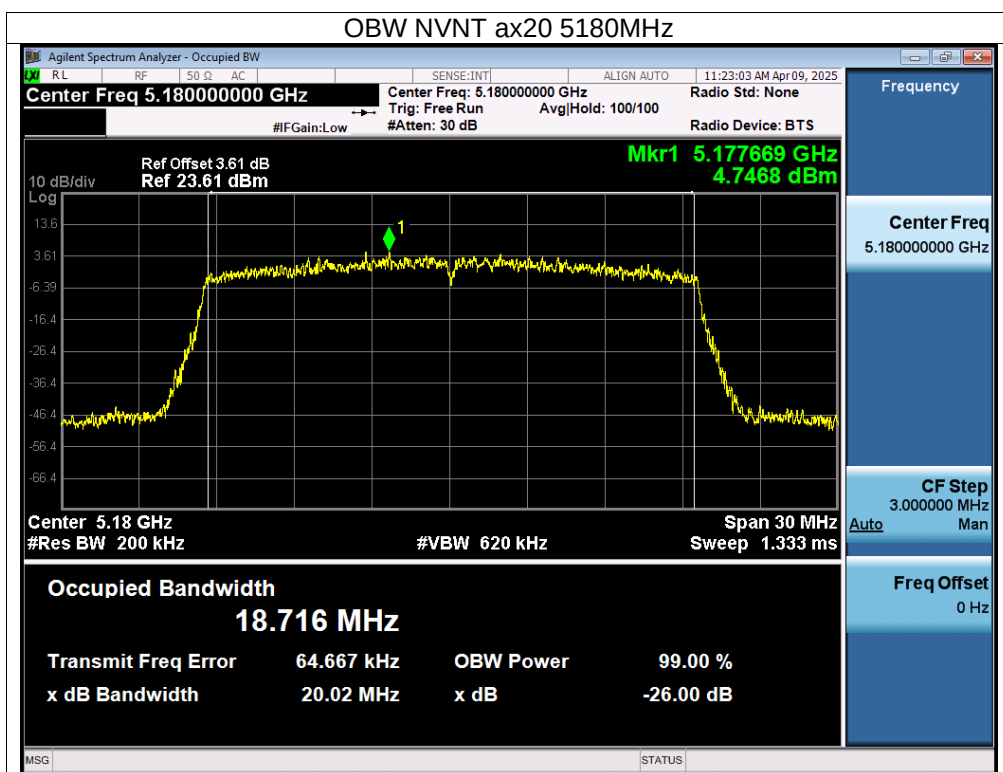


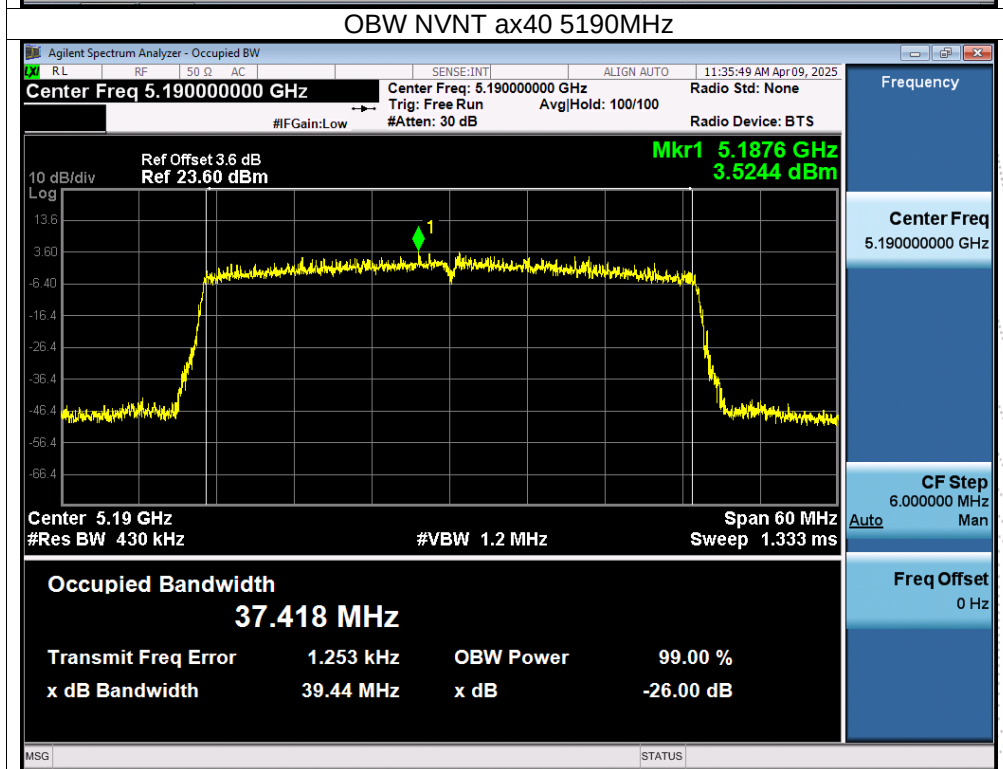
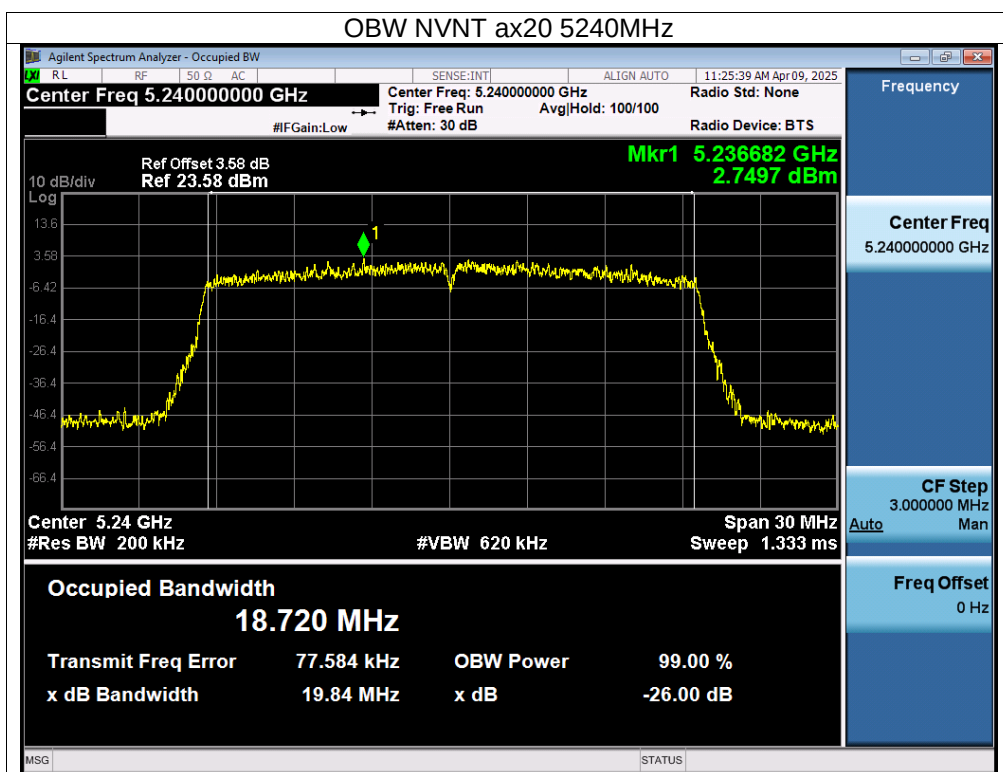


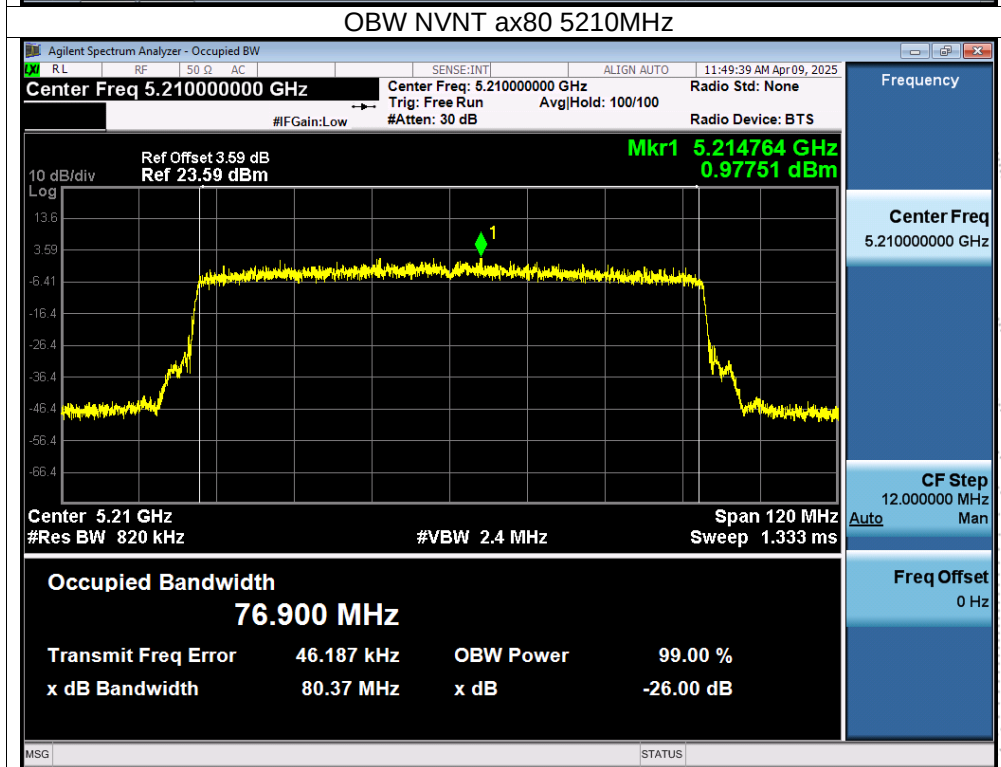
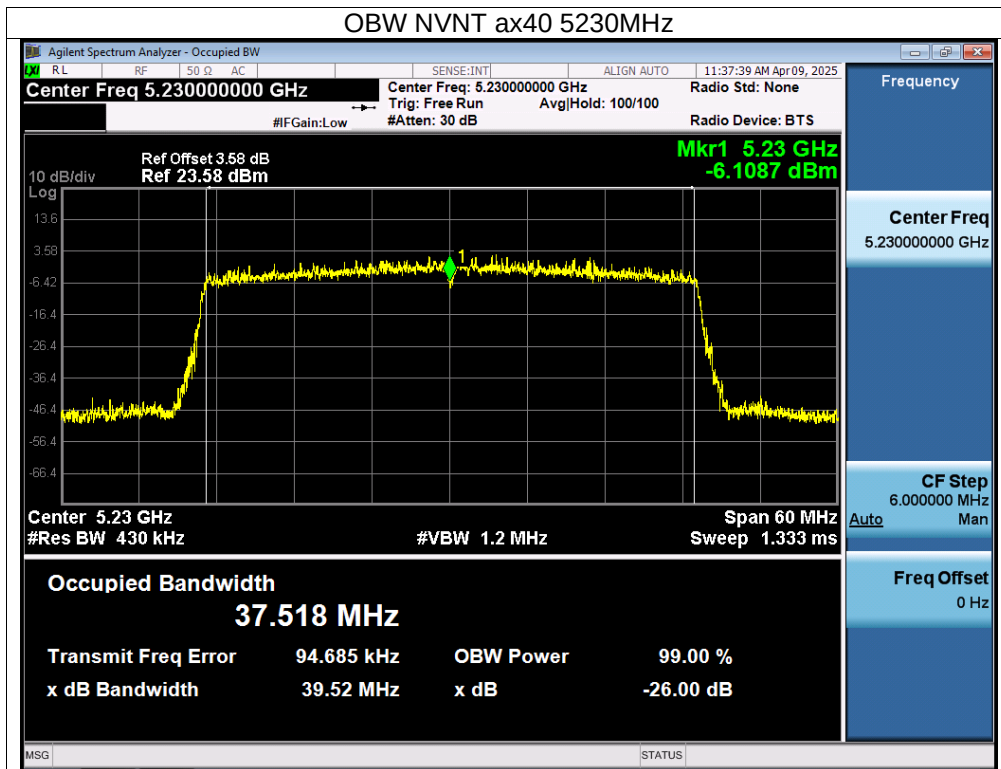












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.3V
Test Mode:	(U-NII-2A) 5260MHz-5320MHz		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	26dB bandwidth (MHz)	Result
NVNT	a	5260	16.196	18.025	Pass
NVNT	a	5280	16.2	18.05	Pass
NVNT	a	5320	16.223	18.036	Pass
NVNT	n20	5260	17.351	18.909	Pass
NVNT	n20	5280	17.364	18.928	Pass
NVNT	n20	5320	17.358	18.966	Pass
NVNT	n40	5270	35.826	38.243	Pass
NVNT	n40	5310	35.726	38.16	Pass
NVNT	ac20	5260	17.397	18.832	Pass
NVNT	ac20	5280	17.37	19.033	Pass
NVNT	ac20	5320	17.375	18.765	Pass
NVNT	ac40	5270	35.82	38.292	Pass
NVNT	ac40	5310	35.762	38.078	Pass
NVNT	ac80	5290	74.998	78.656	Pass
NVNT	ax20	5260	18.656	19.994	Pass
NVNT	ax20	5280	18.719	19.869	Pass
NVNT	ax20	5320	18.729	19.81	Pass
NVNT	ax40	5270	35.739	38.127	Pass
NVNT	ax40	5310	35.763	38.149	Pass
NVNT	ax80	5290	76.733	80.385	Pass

