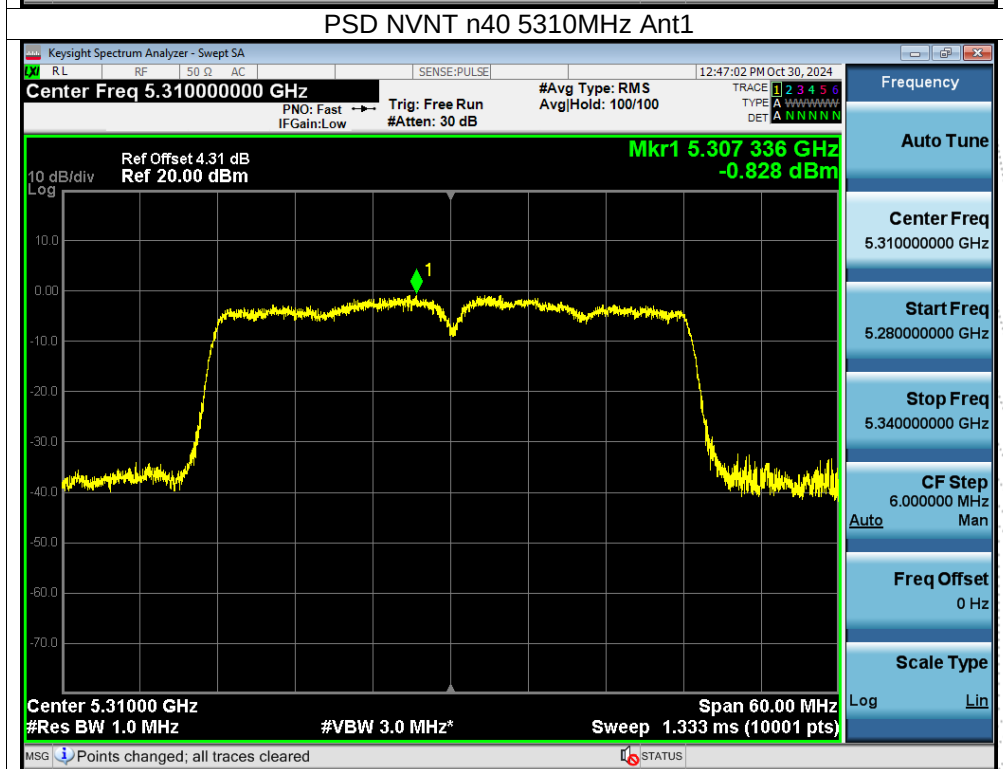
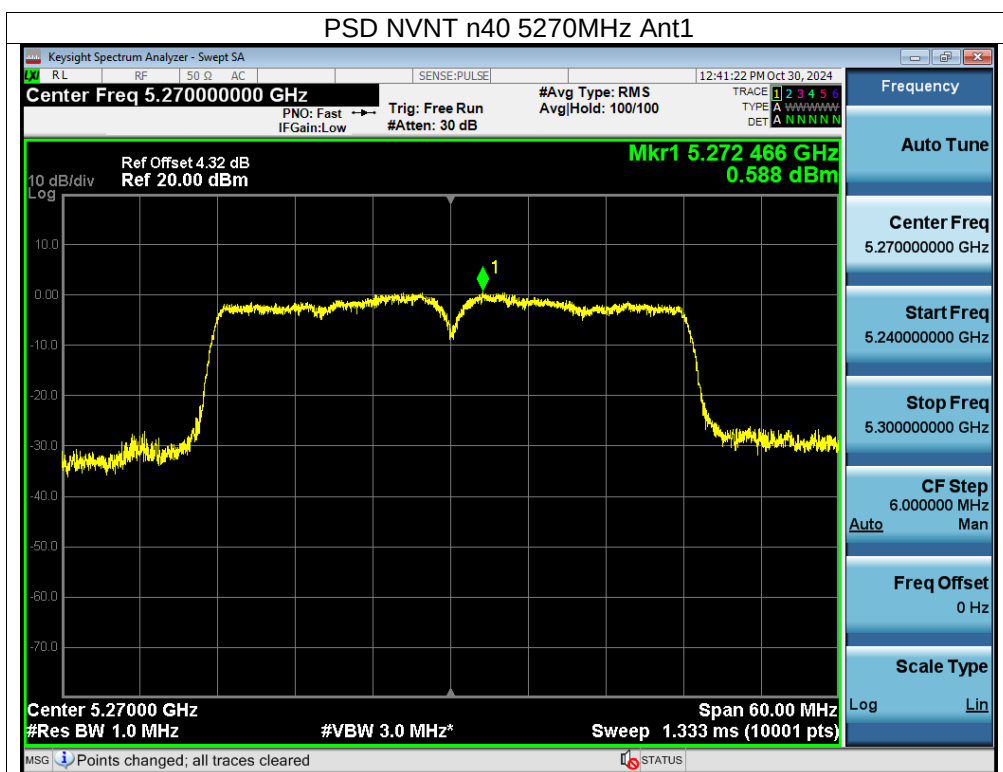
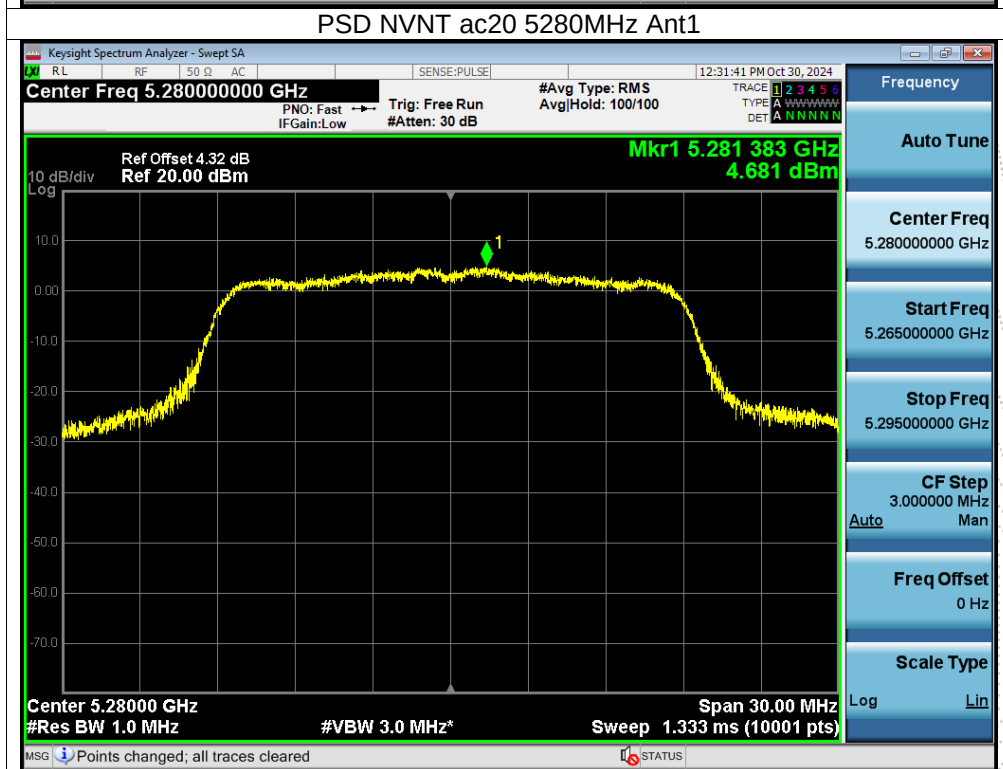
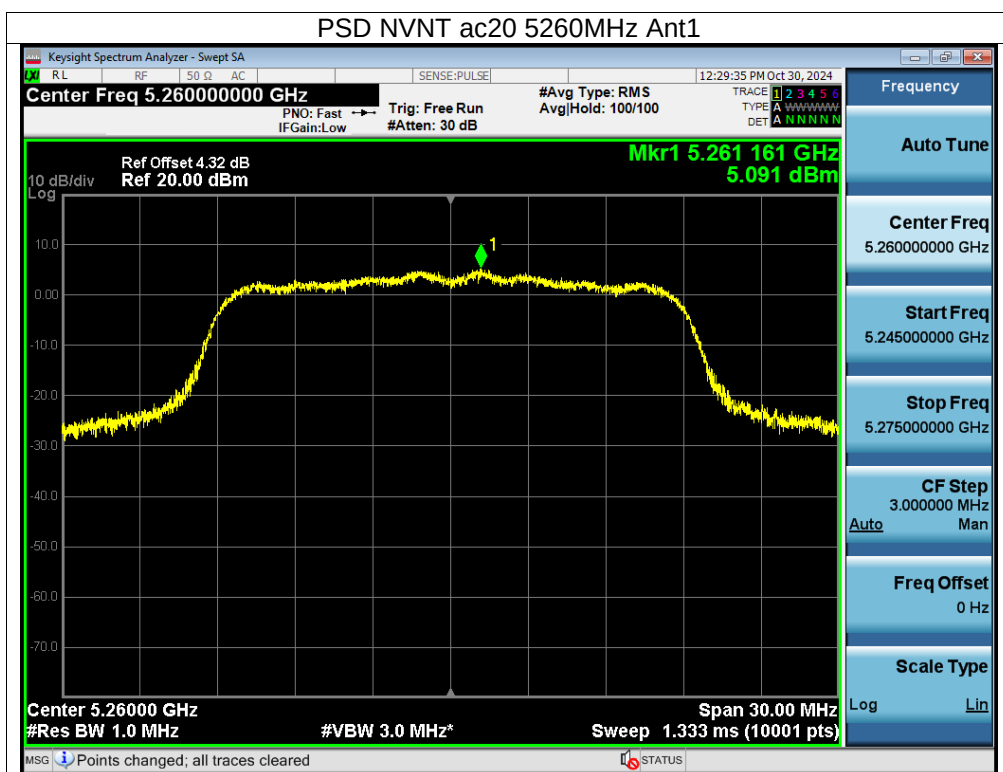
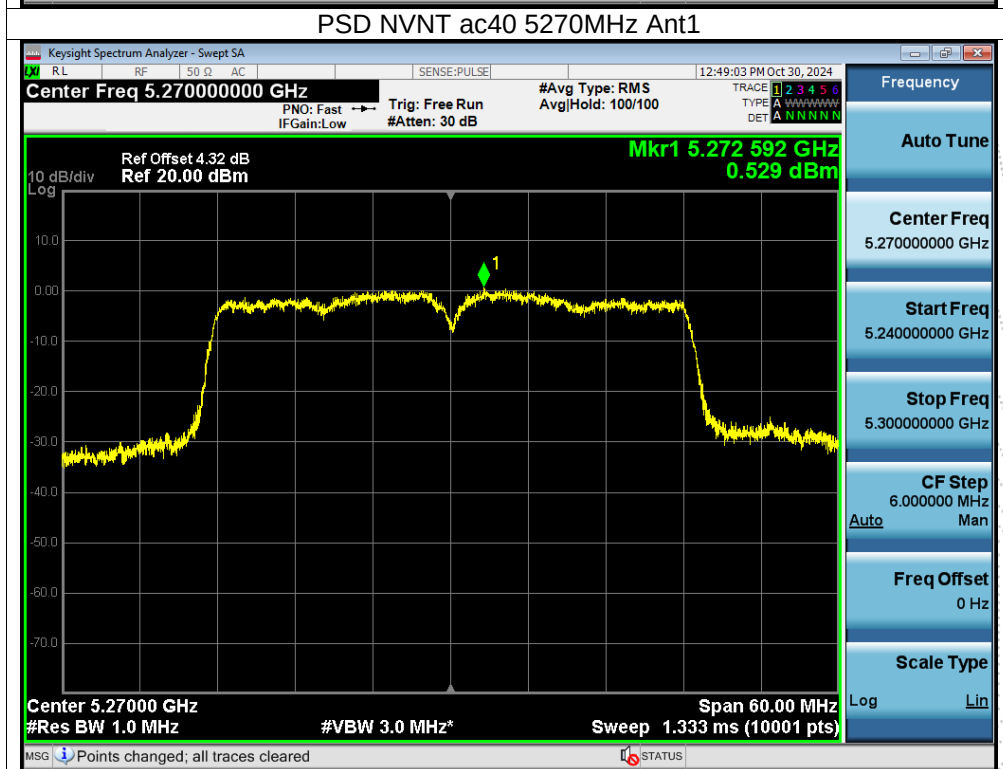
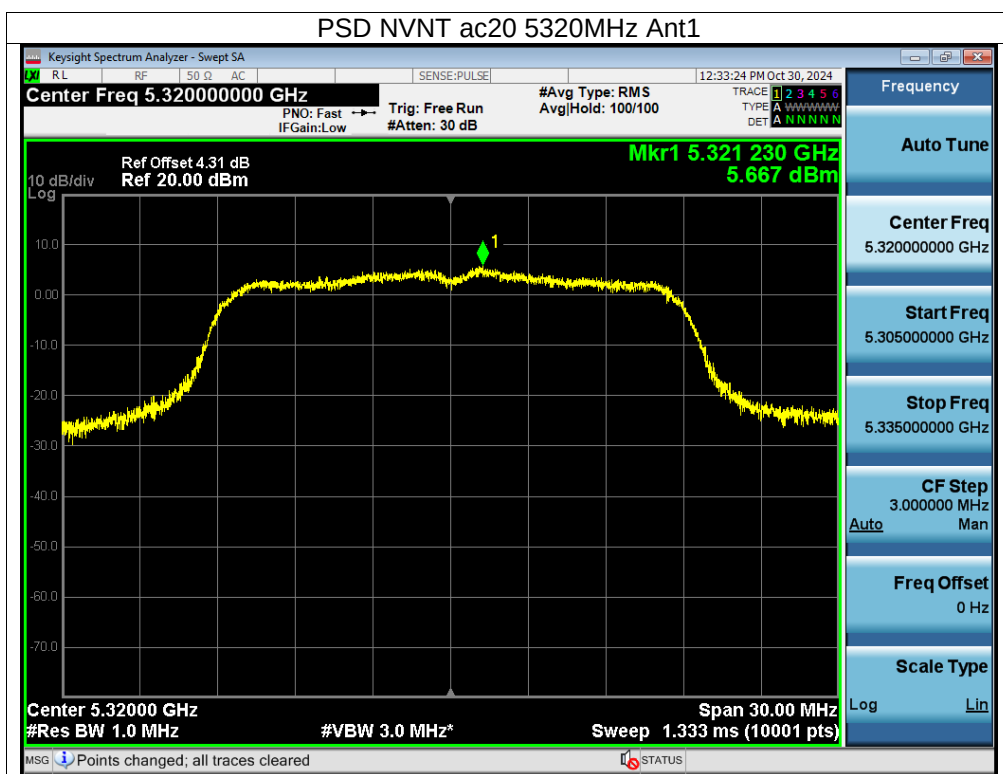
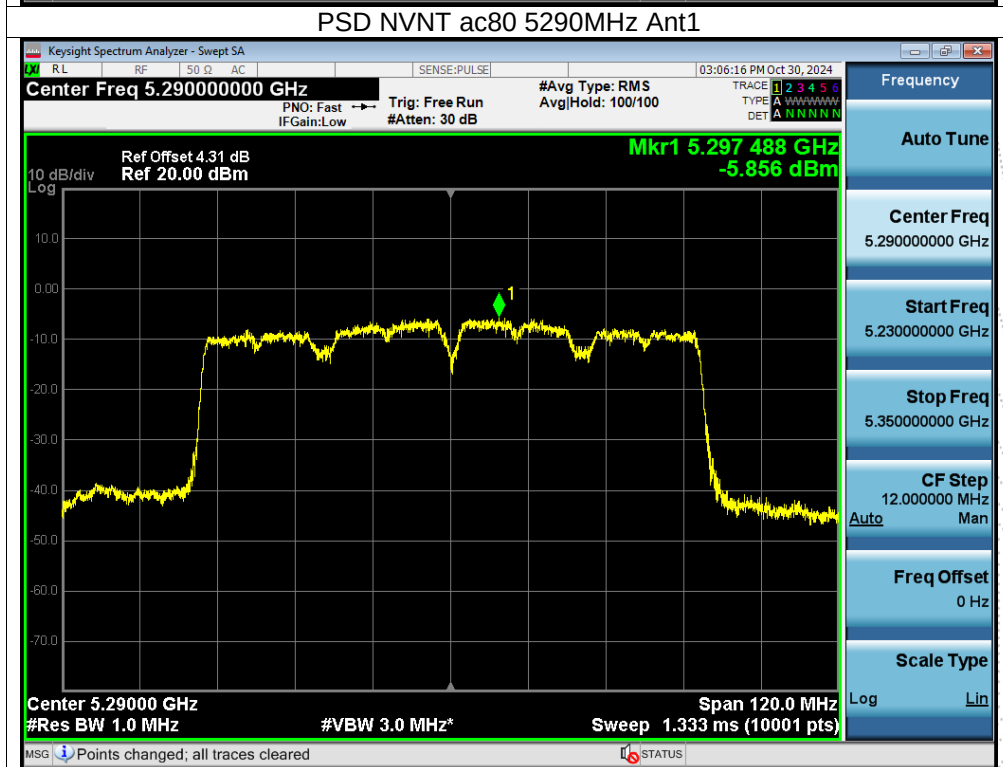
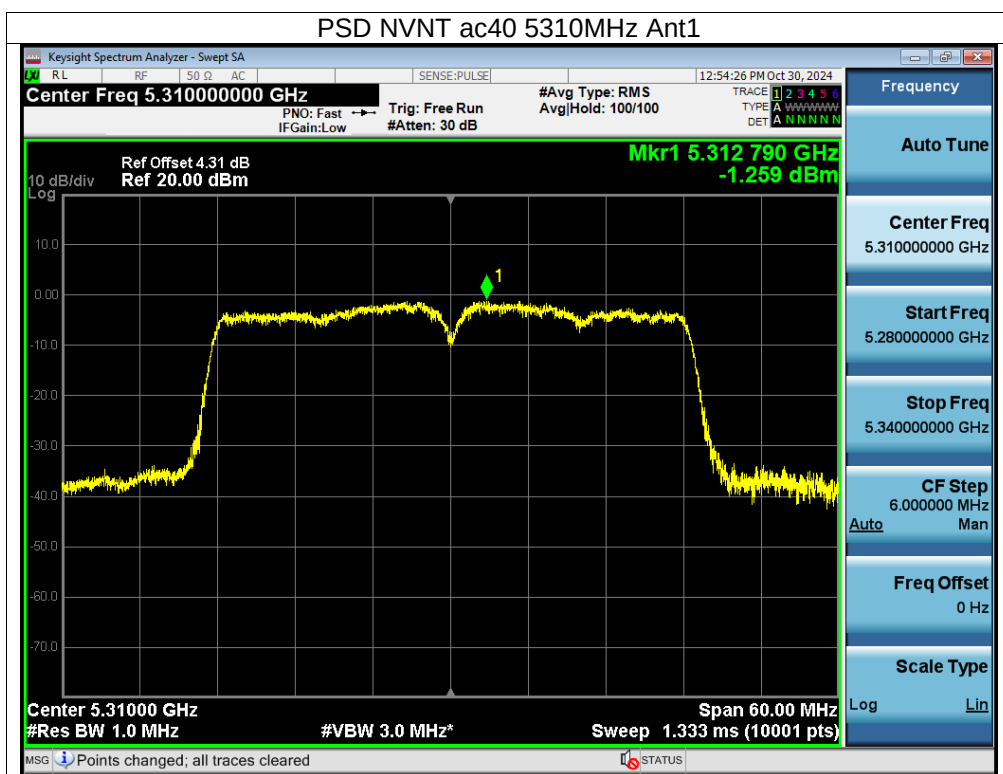






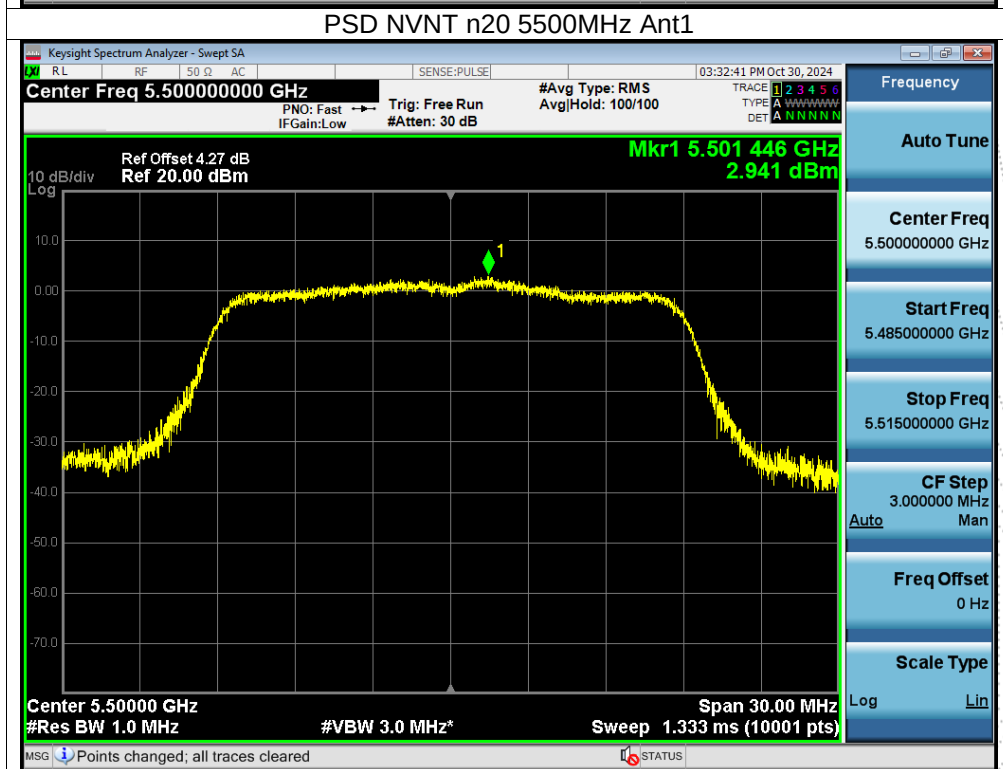
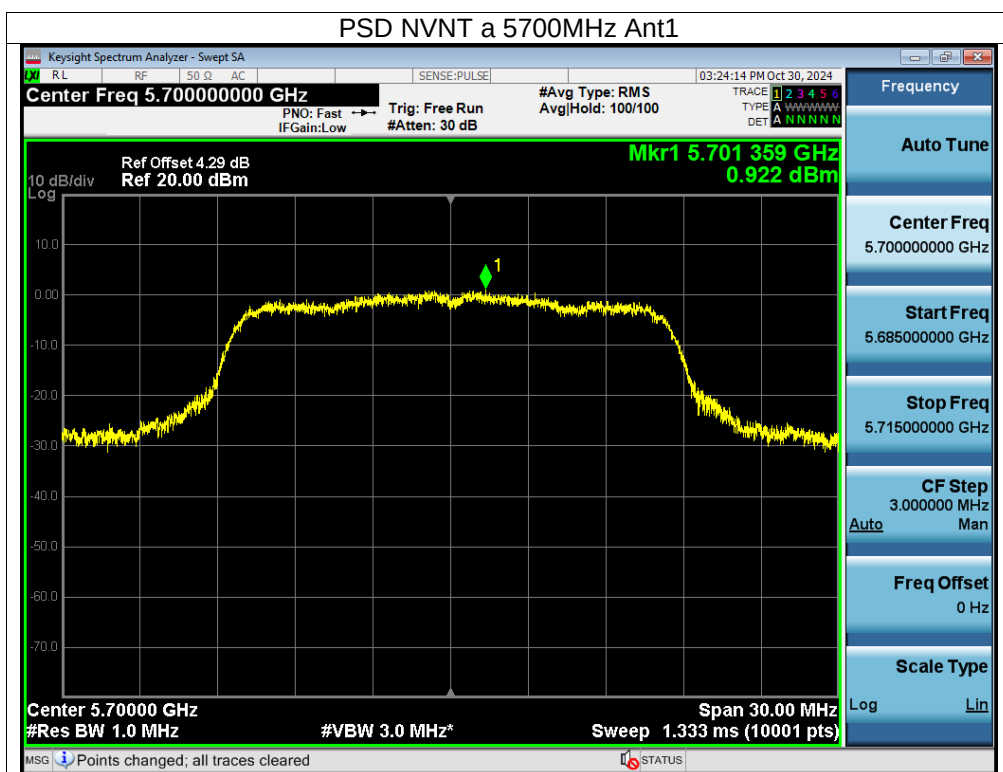


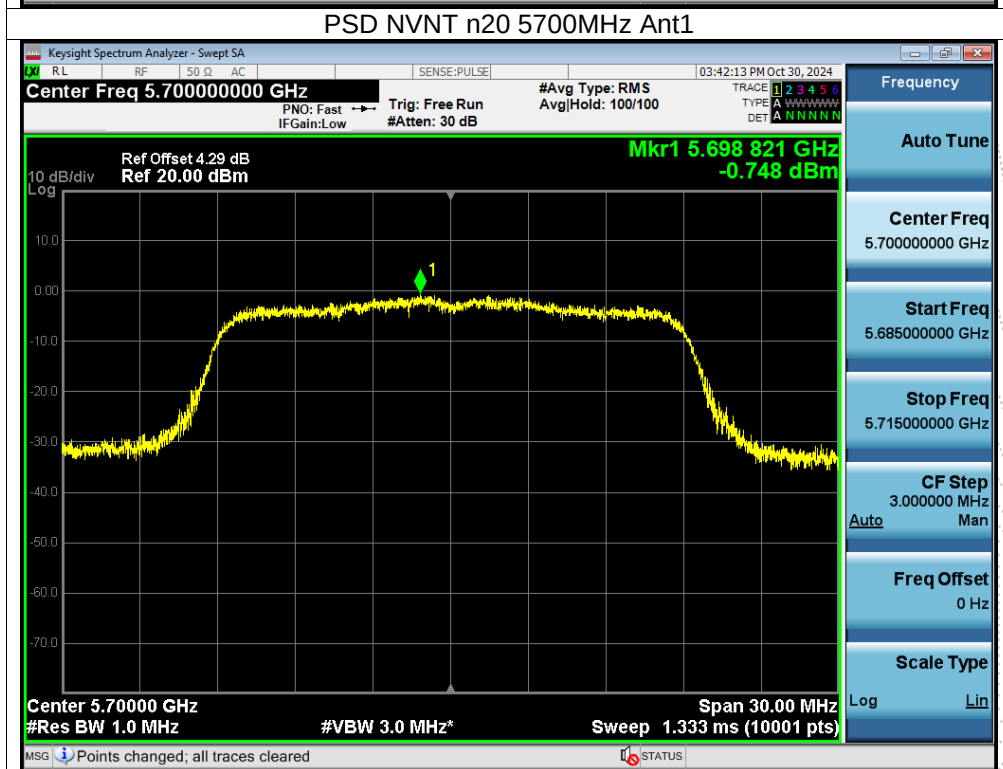
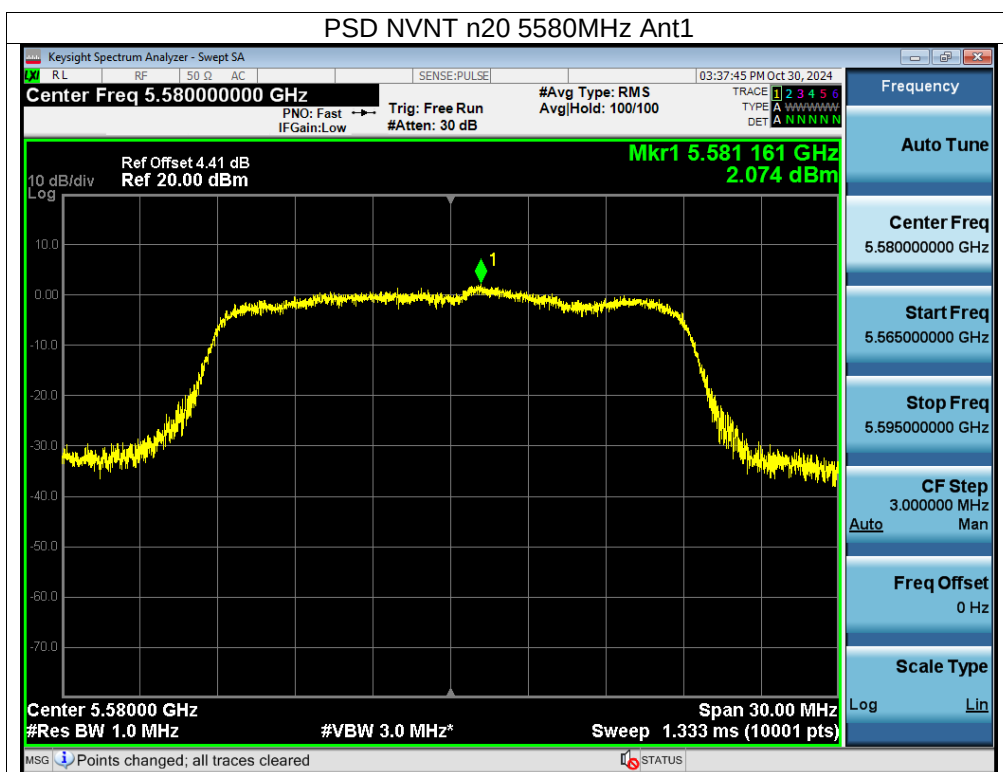


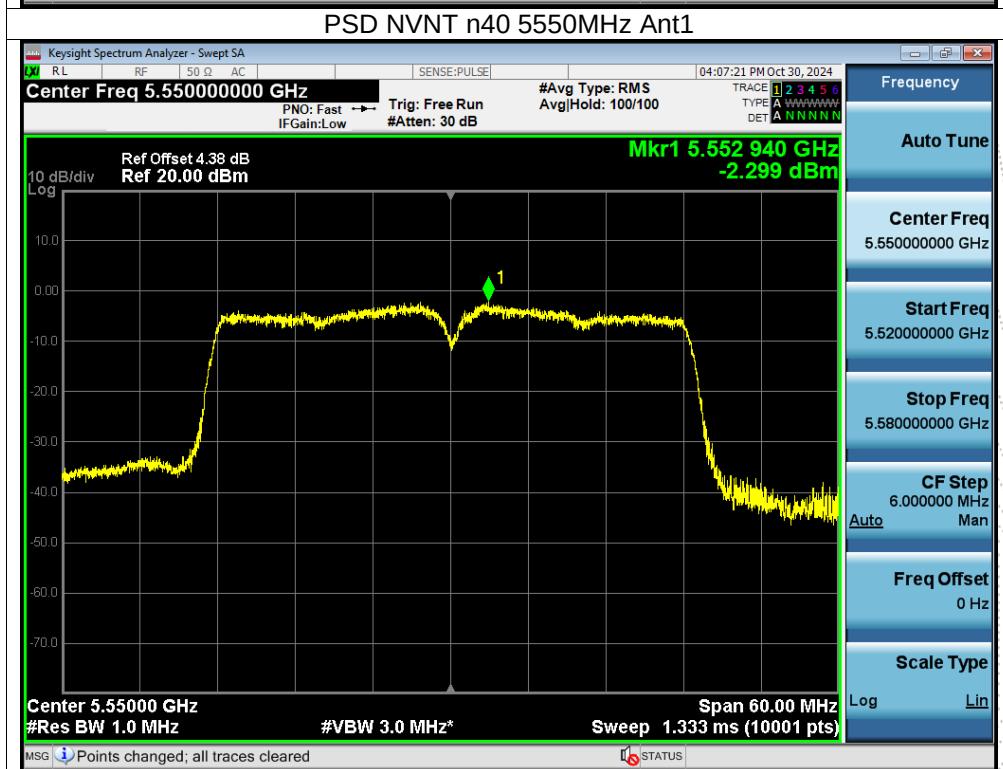
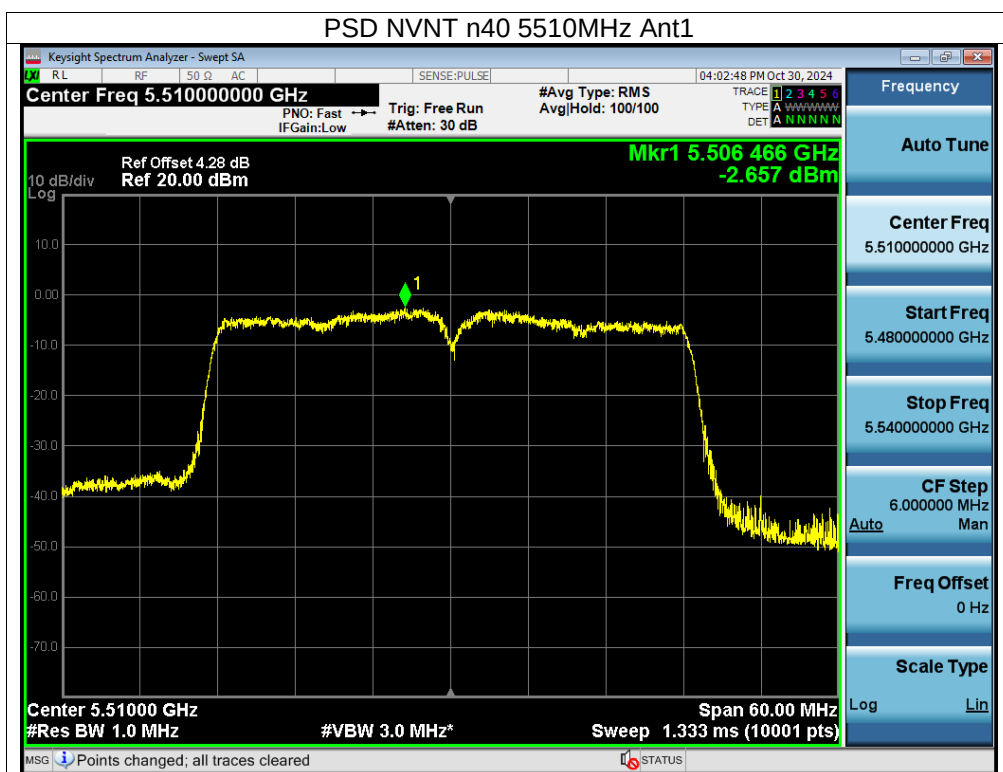
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.7V
Test Mode:	(5500-5700MHz)		

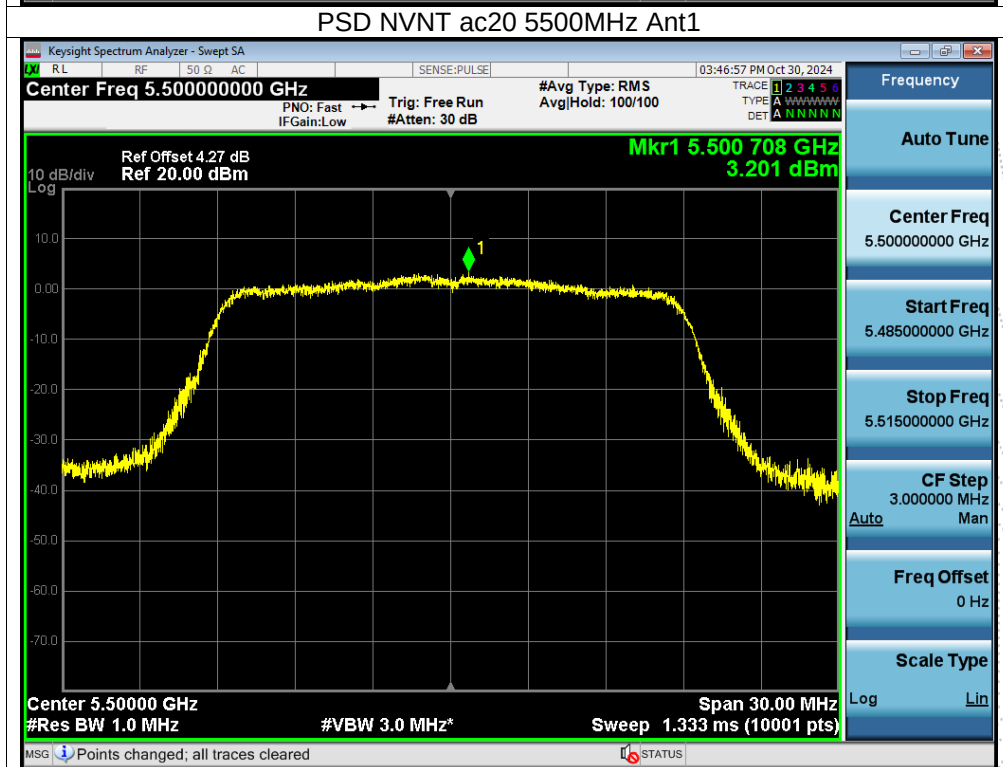
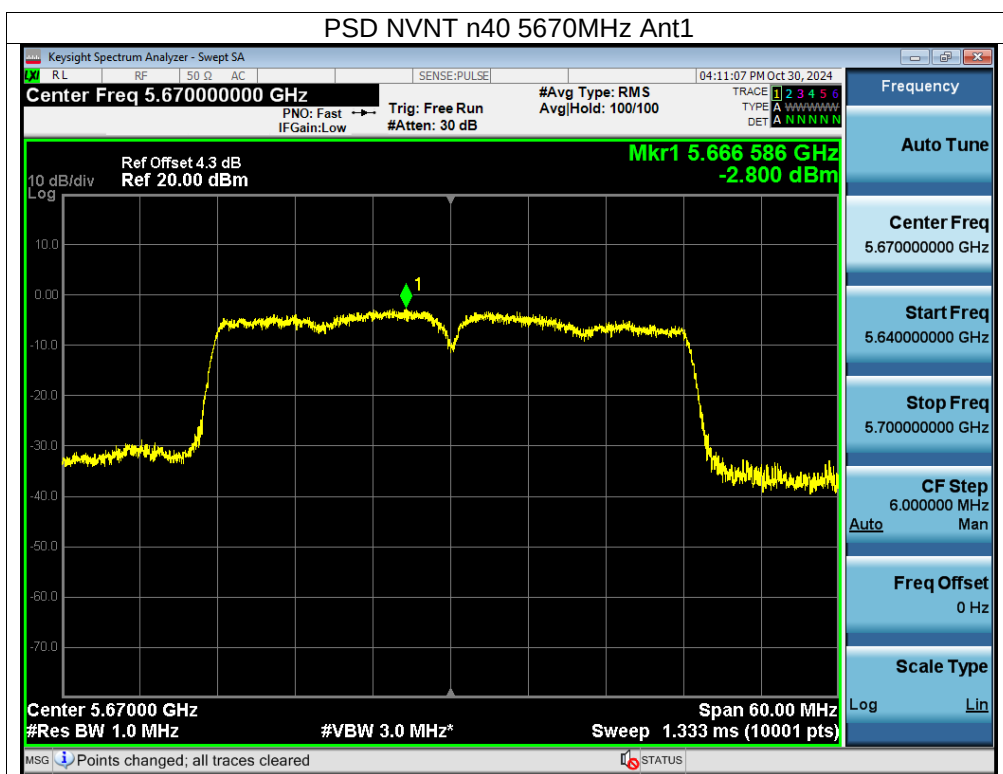
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5500	4.03	11	Pass
NVNT	a	5580	3.72	11	Pass
NVNT	a	5700	0.92	11	Pass
NVNT	n20	5500	2.94	11	Pass
NVNT	n20	5580	2.07	11	Pass
NVNT	n20	5700	-0.75	11	Pass
NVNT	n40	5510	-2.66	11	Pass
NVNT	n40	5550	-2.3	11	Pass
NVNT	n40	5670	-2.8	11	Pass
NVNT	ac20	5500	3.2	11	Pass
NVNT	ac20	5580	2.88	11	Pass
NVNT	ac20	5700	0.77	11	Pass
NVNT	ac40	5510	-1.73	11	Pass
NVNT	ac40	5550	-2.33	11	Pass
NVNT	ac40	5670	-1.49	11	Pass
NVNT	ac80	5530	-6.04	11	Pass

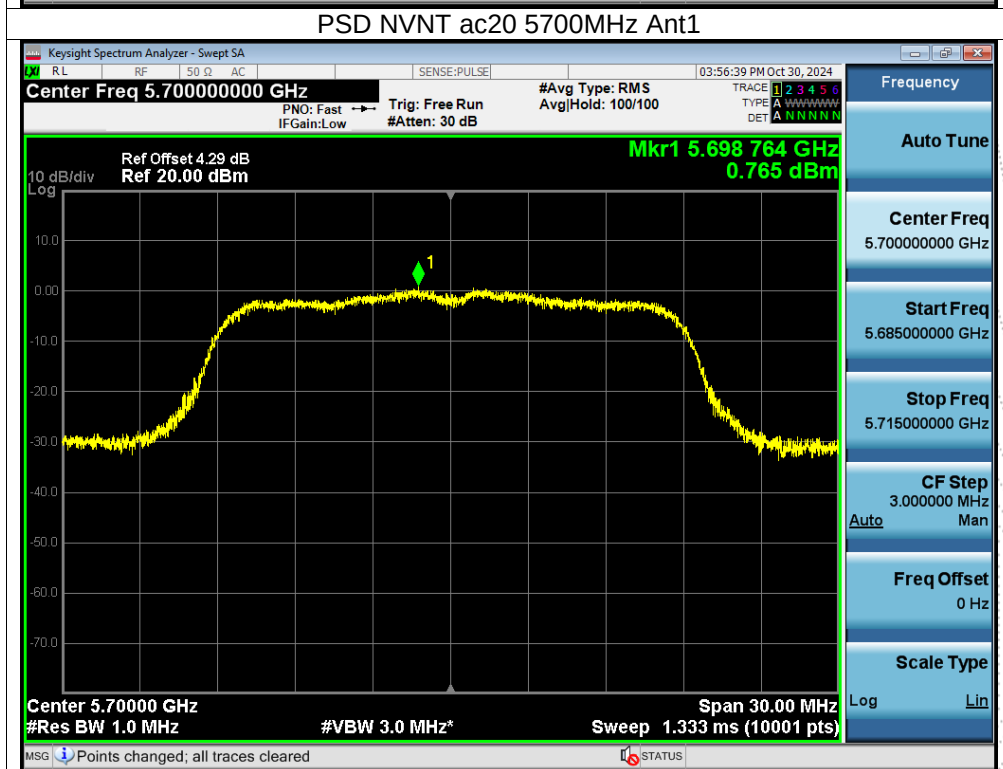
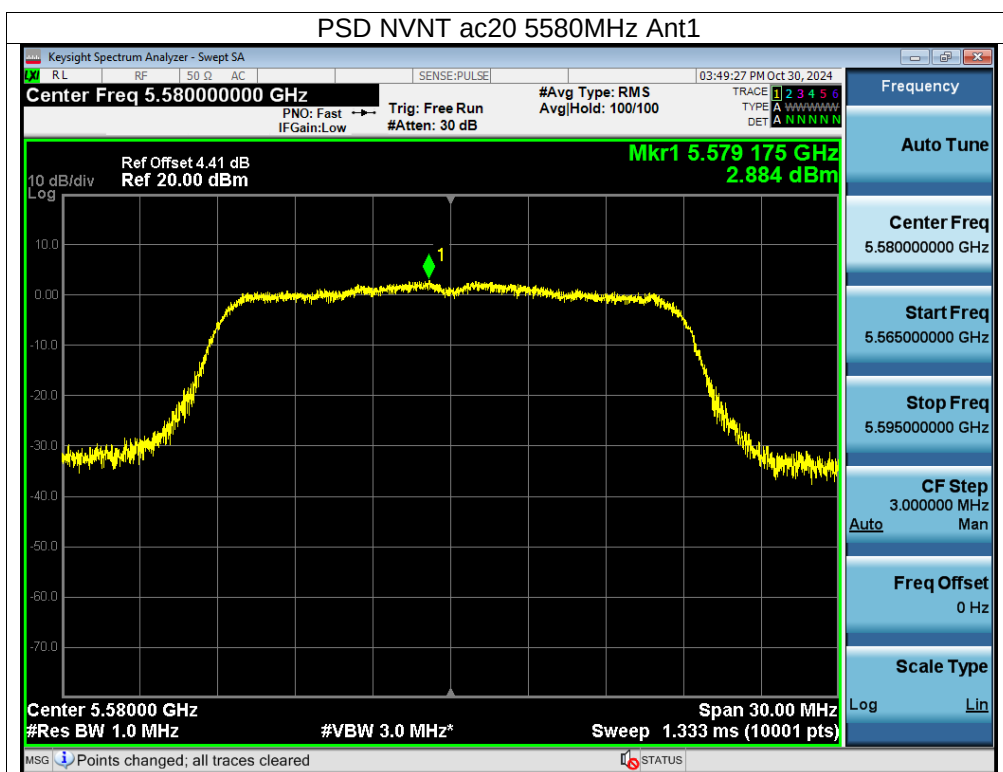


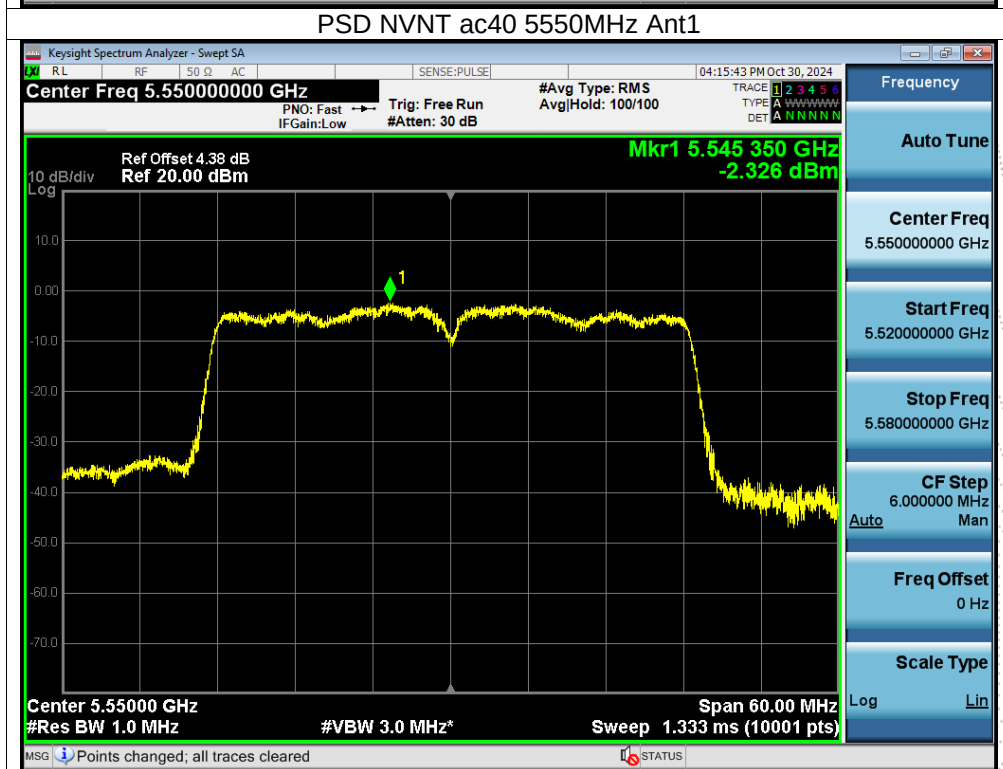
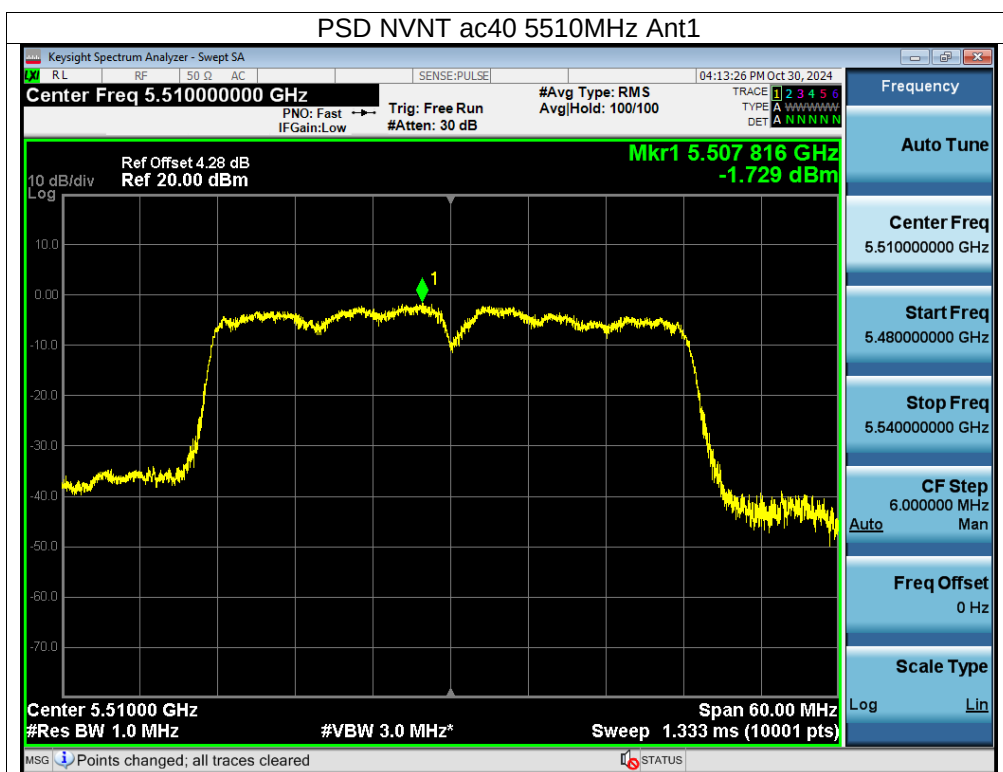


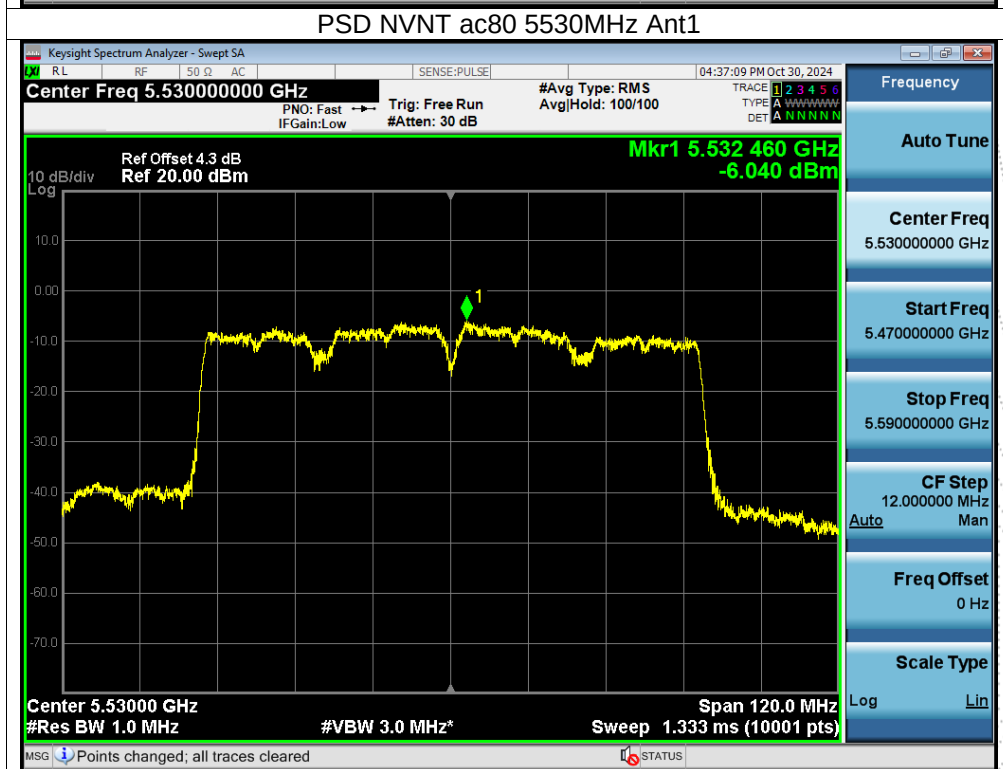
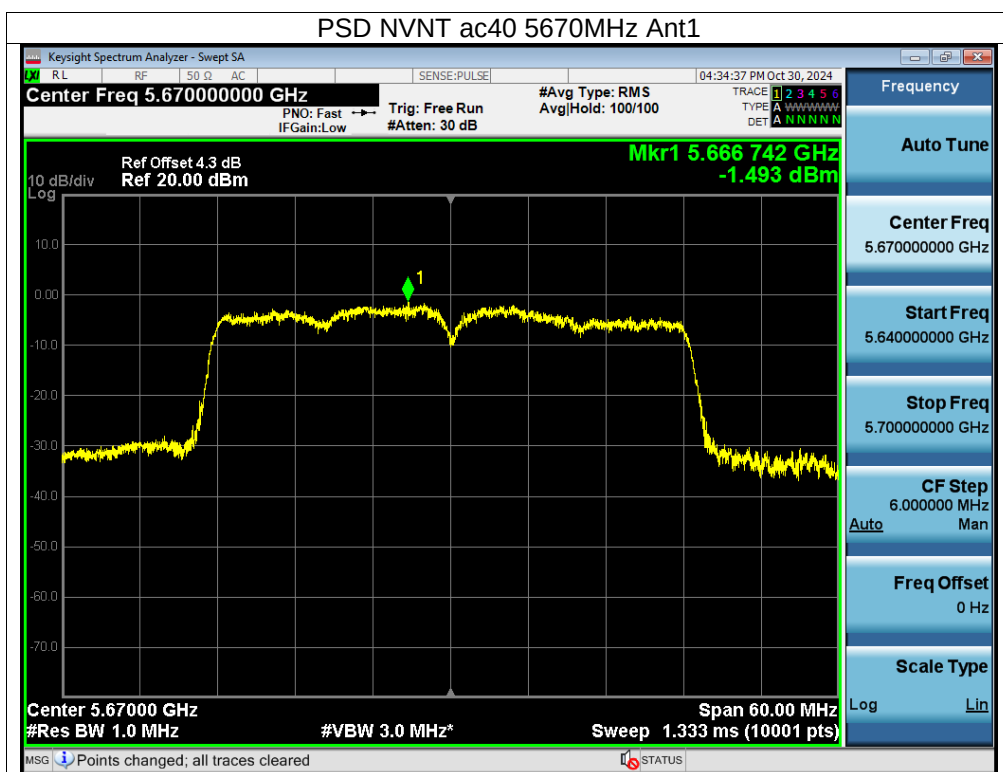






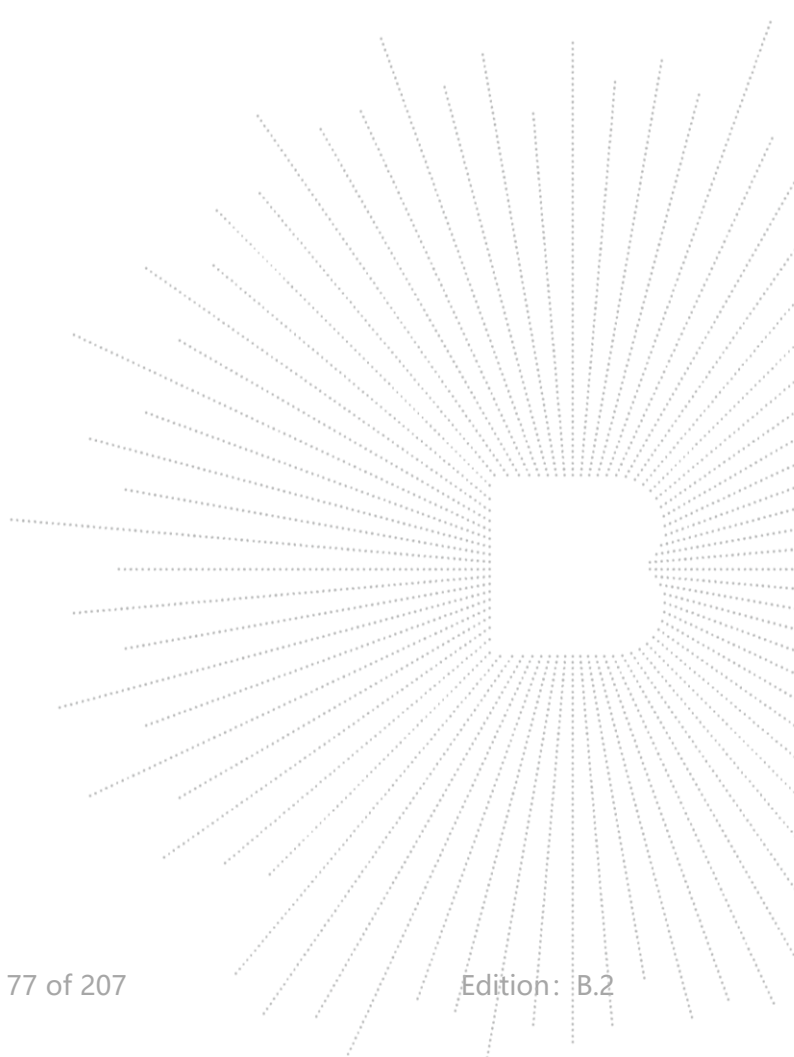






Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.7V
Test Mode:	(5745-5825MHz)		

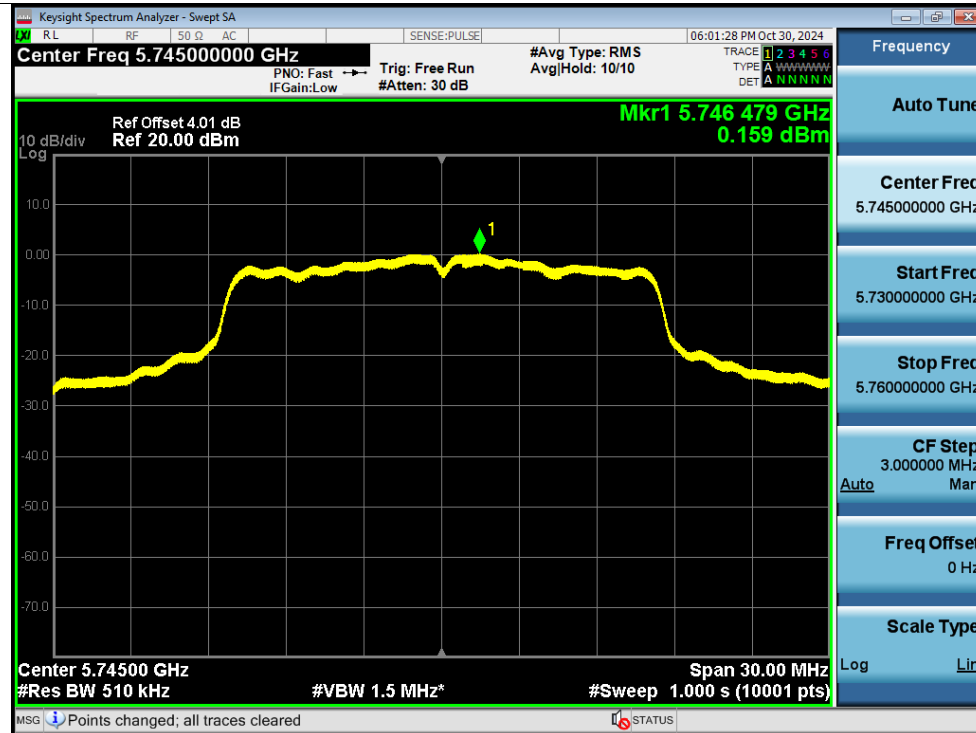
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5745	0.16	30	Pass
NVNT	a	5785	0.02	30	Pass
NVNT	a	5825	0.11	30	Pass
NVNT	n20	5745	-1.2	30	Pass
NVNT	n20	5785	-0.95	30	Pass
NVNT	n20	5825	-0.57	30	Pass
NVNT	n40	5755	-4.97	30	Pass
NVNT	n40	5795	-5.54	30	Pass
NVNT	ac20	5745	-0.74	30	Pass
NVNT	ac20	5785	-2.08	30	Pass
NVNT	ac20	5825	-1.64	30	Pass
NVNT	ac40	5755	-3.53	30	Pass
NVNT	ac40	5795	-5.51	30	Pass
NVNT	ac80	5775	-8.55	30	Pass



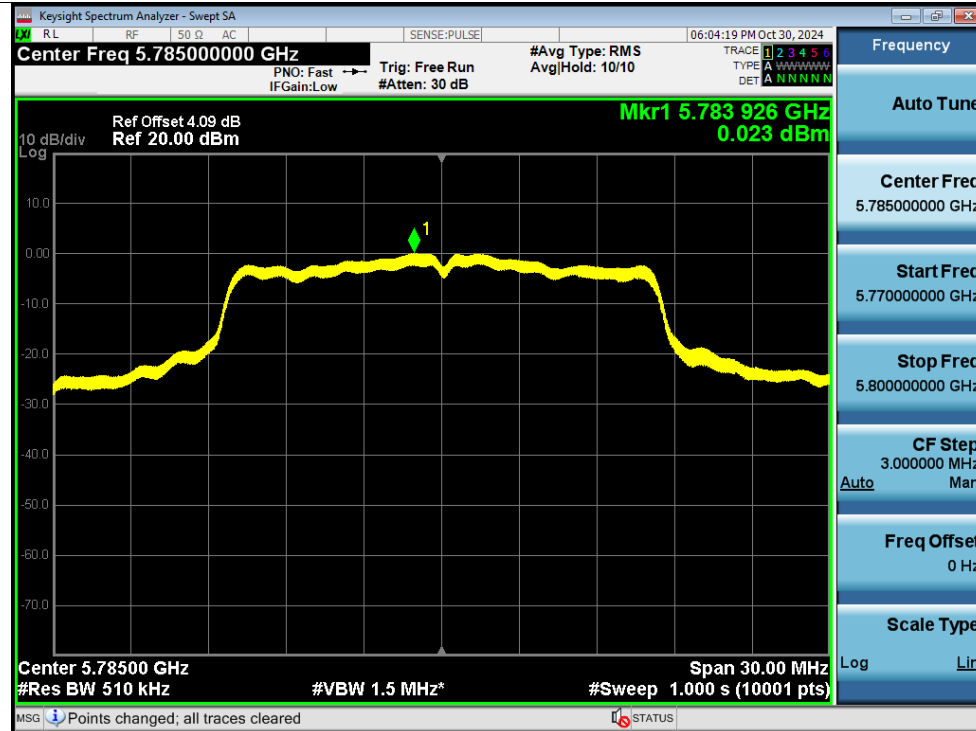


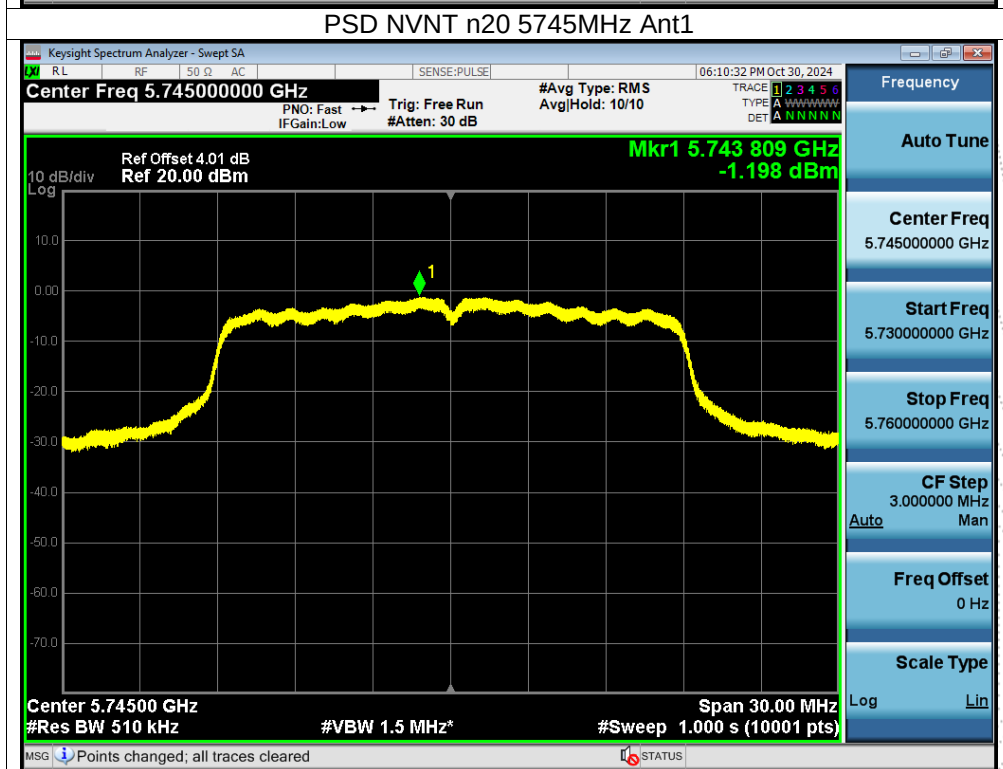
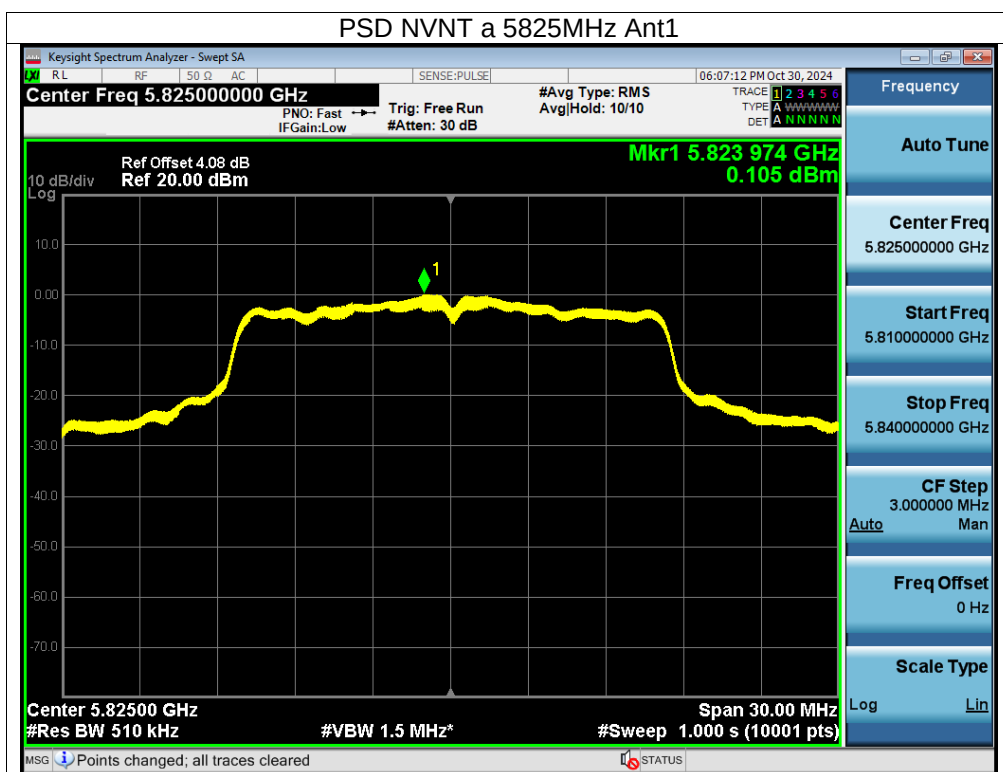
Test Graphs

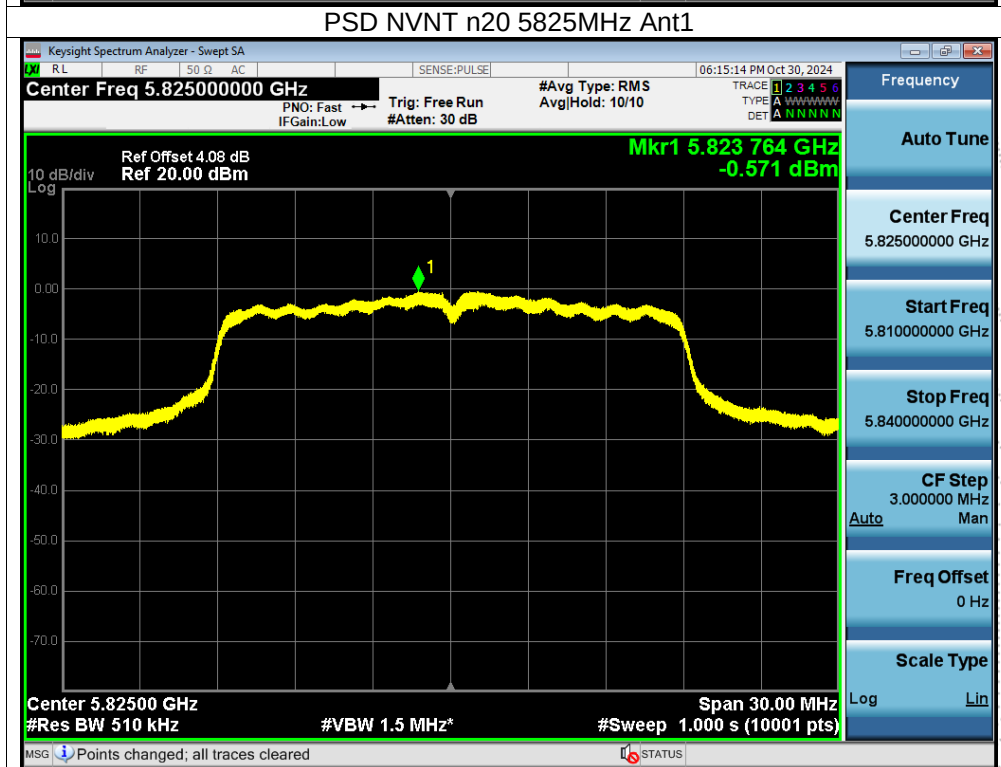
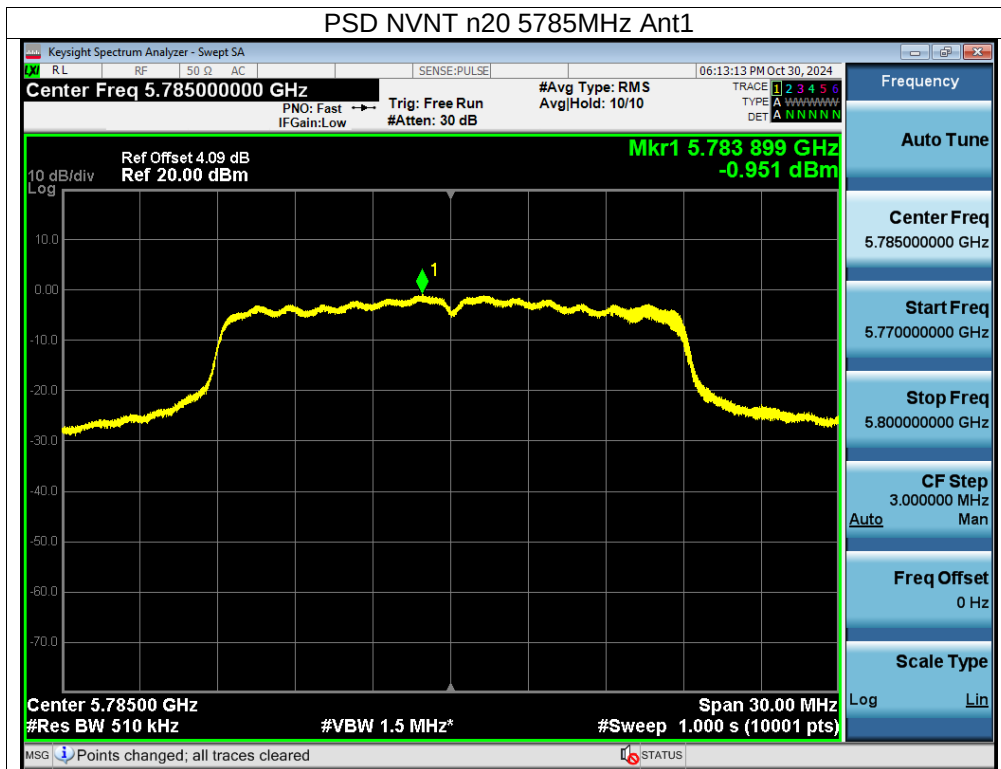
PSD NVNT a 5745MHz Ant1

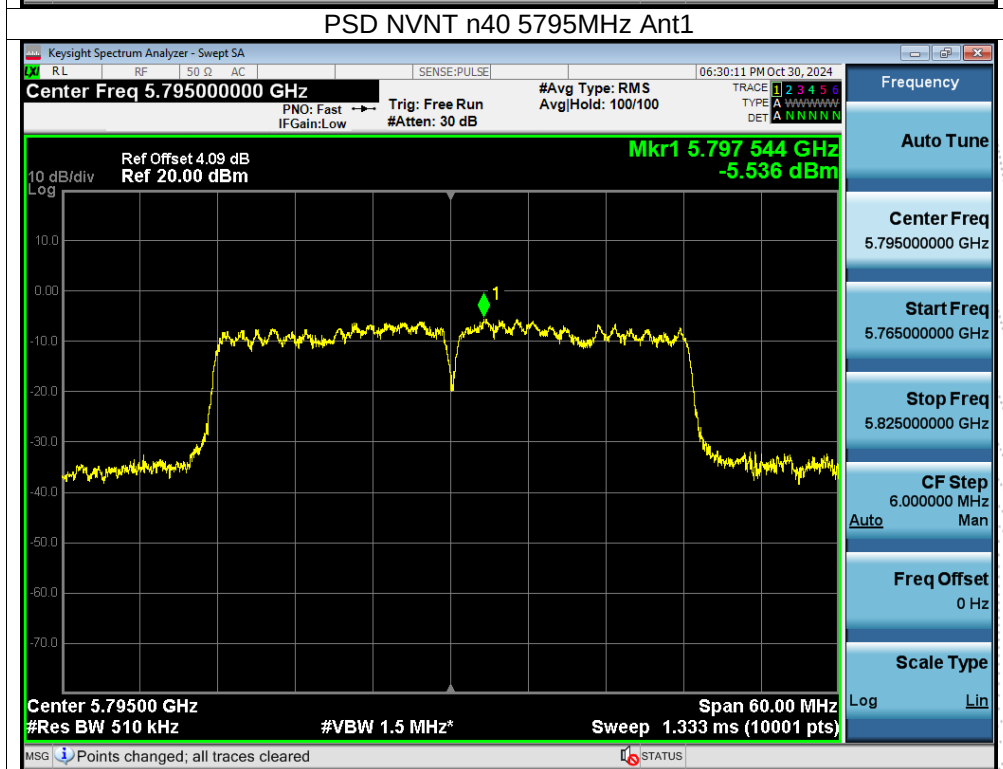
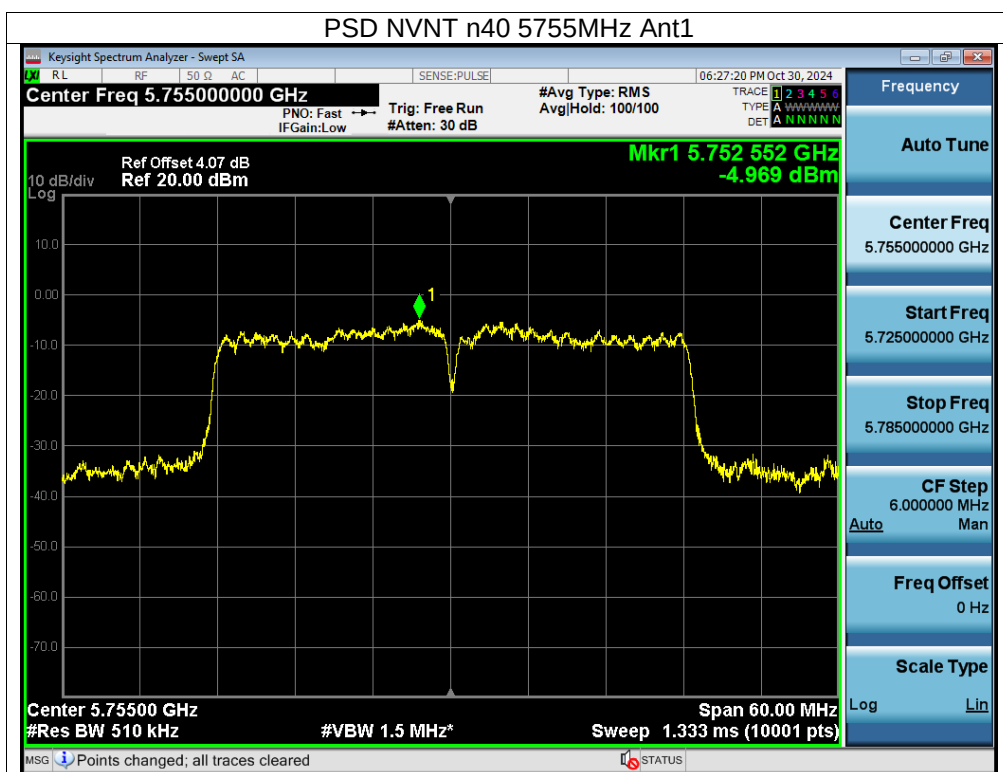


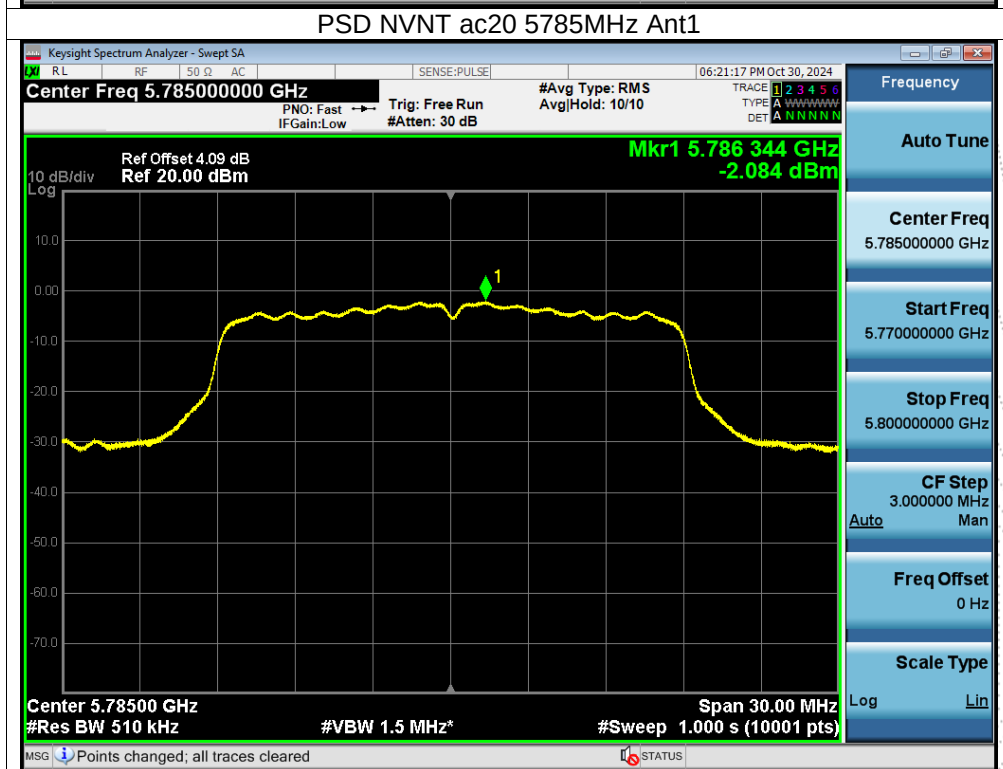
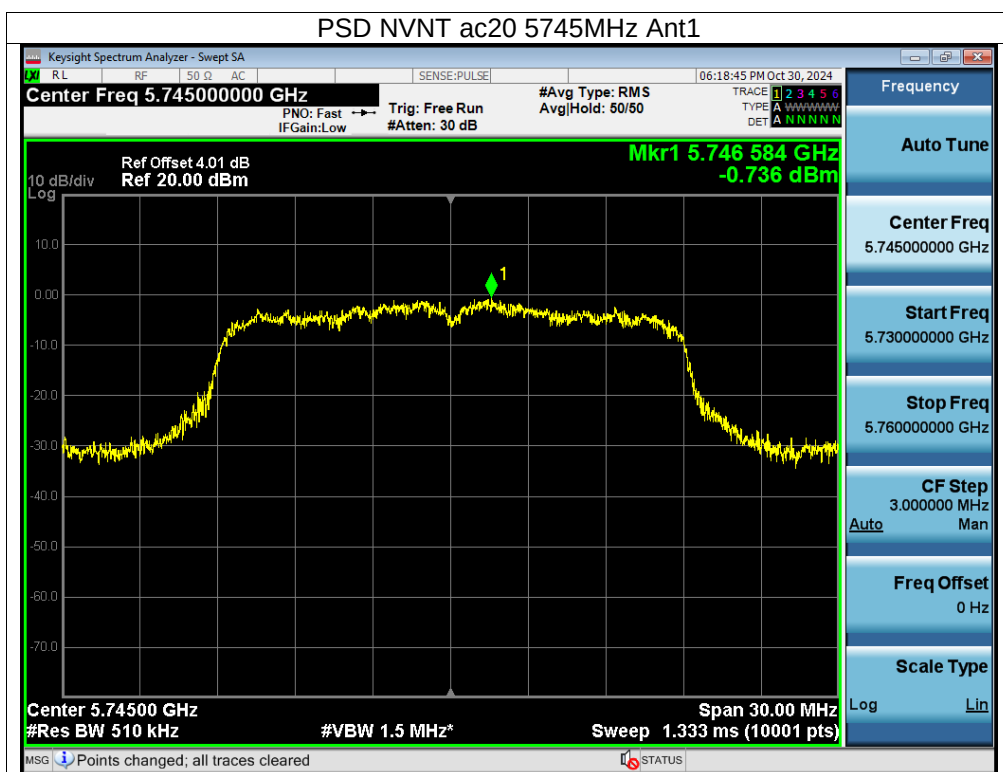
PSD NVNT a 5785MHz Ant1

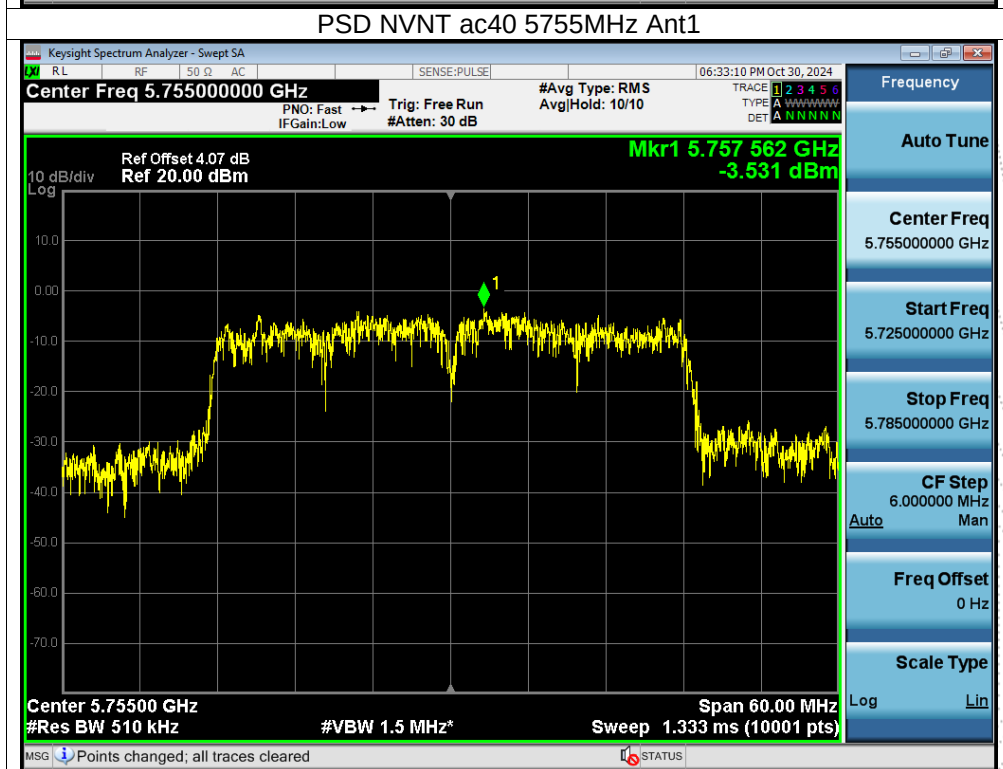
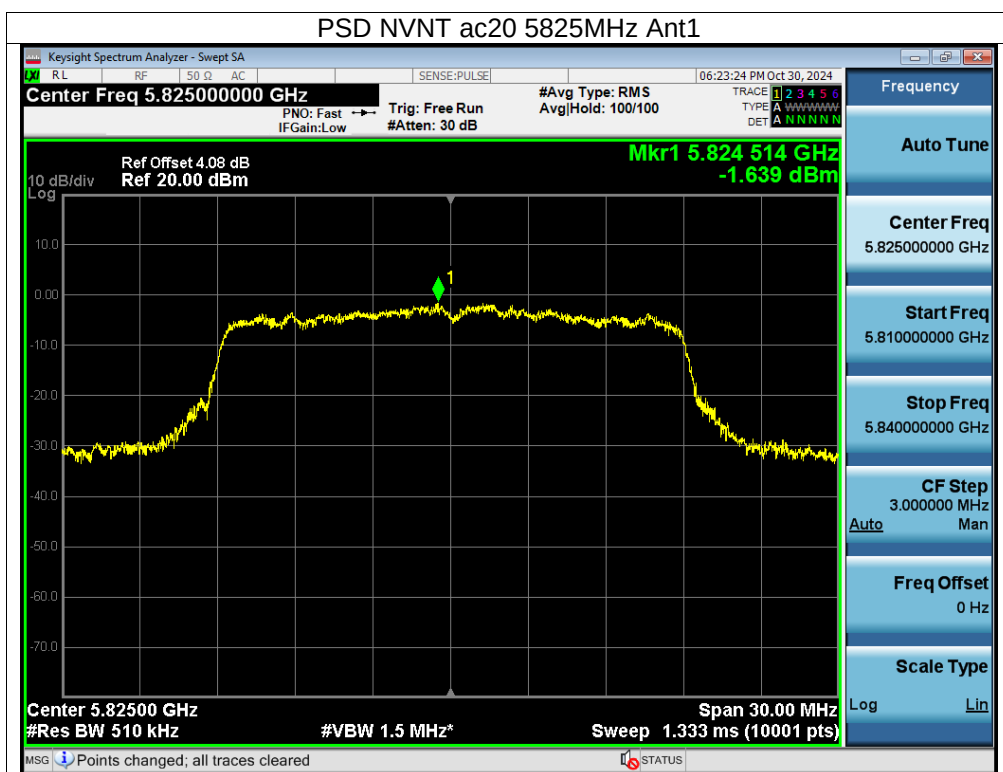


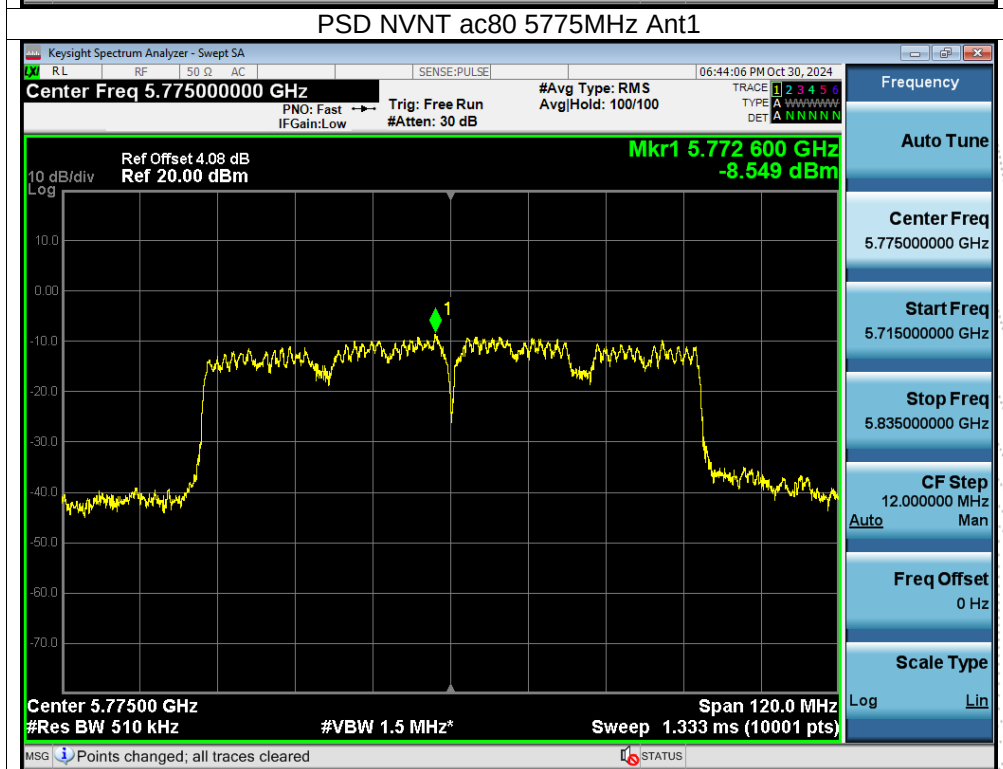
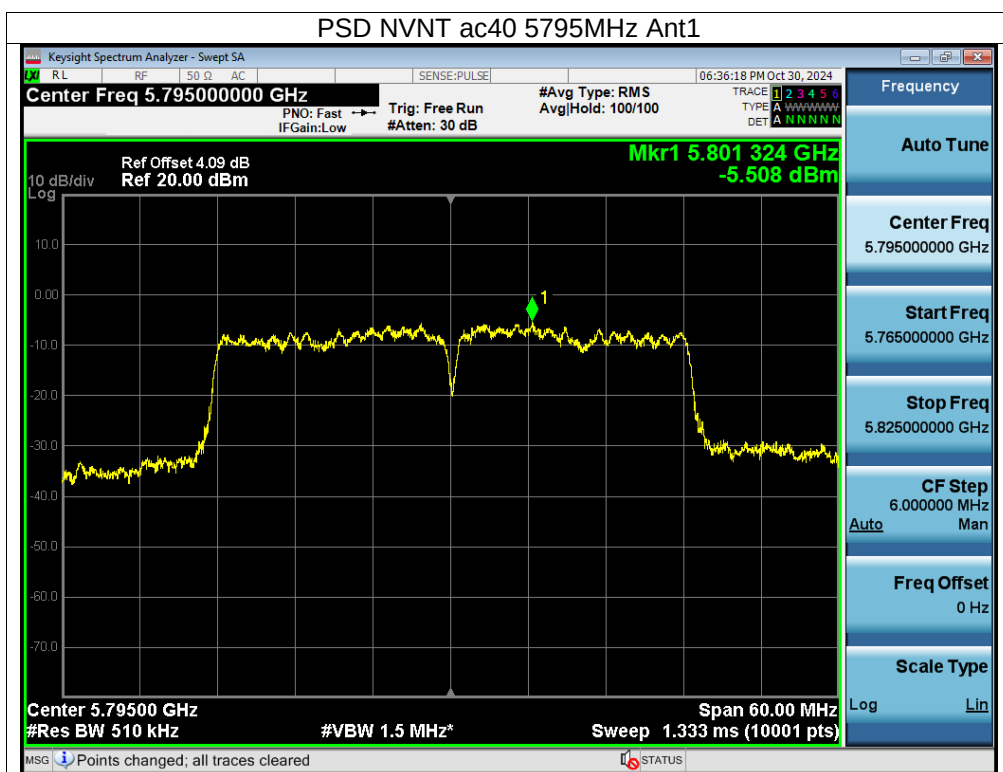






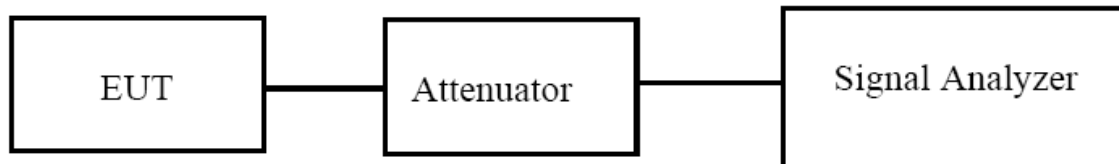






9. 26dB & 6dB & 99% Emission Bandwidth

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

- 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

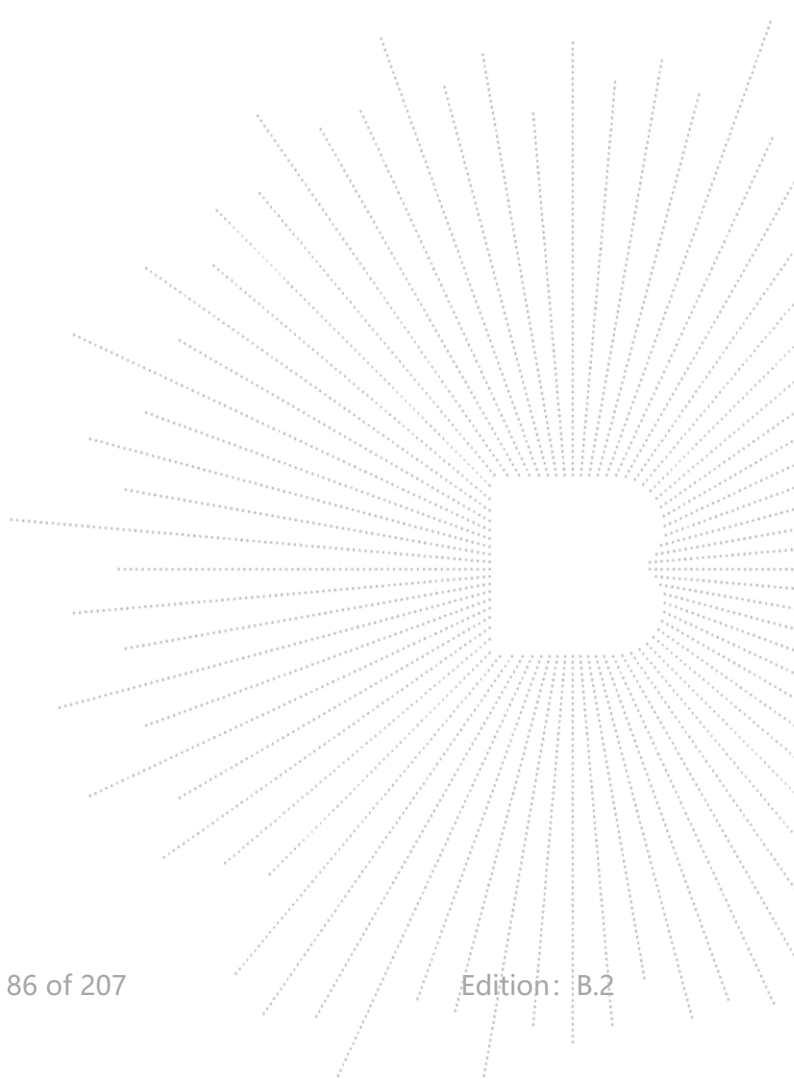
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

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.

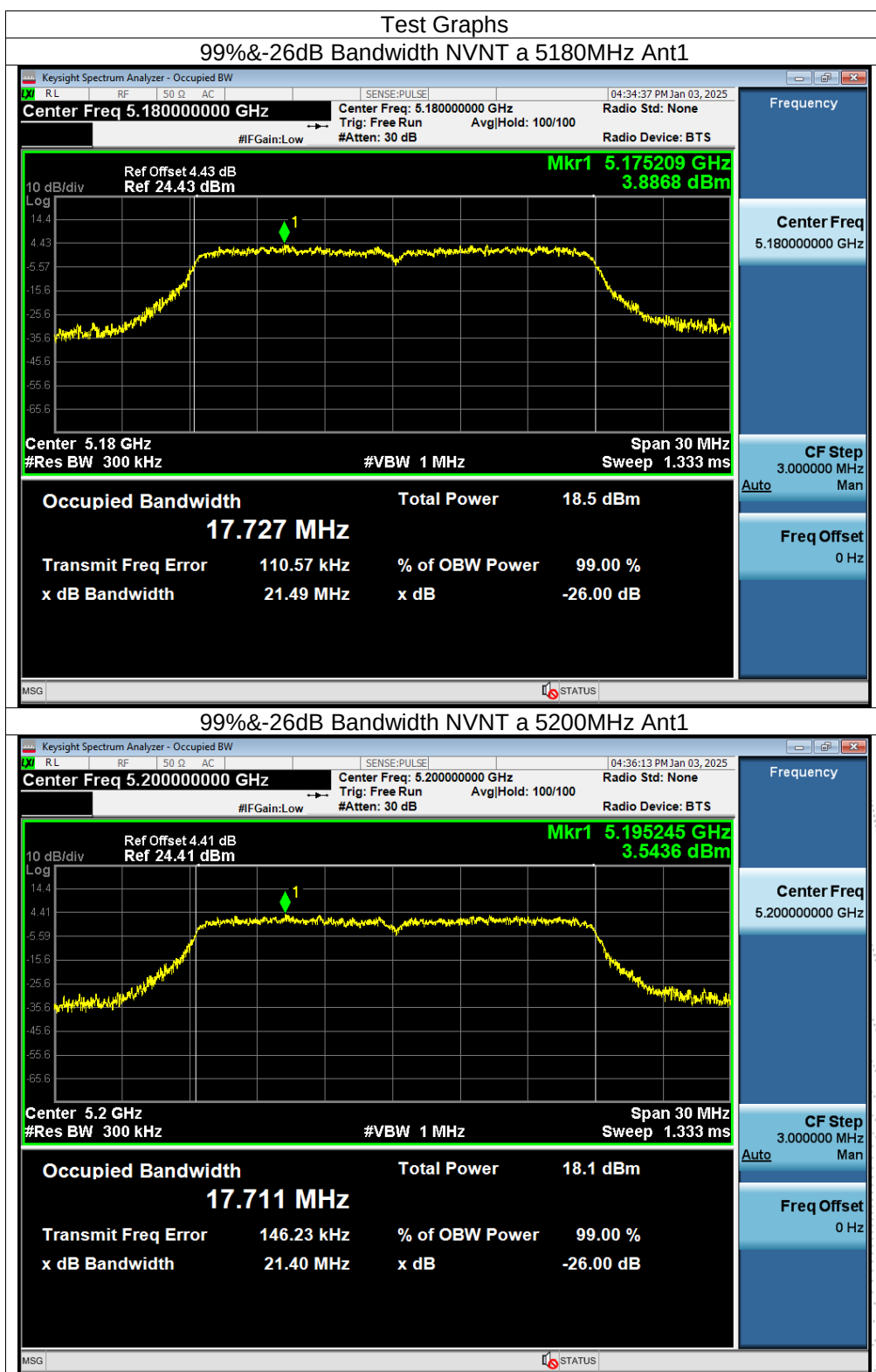


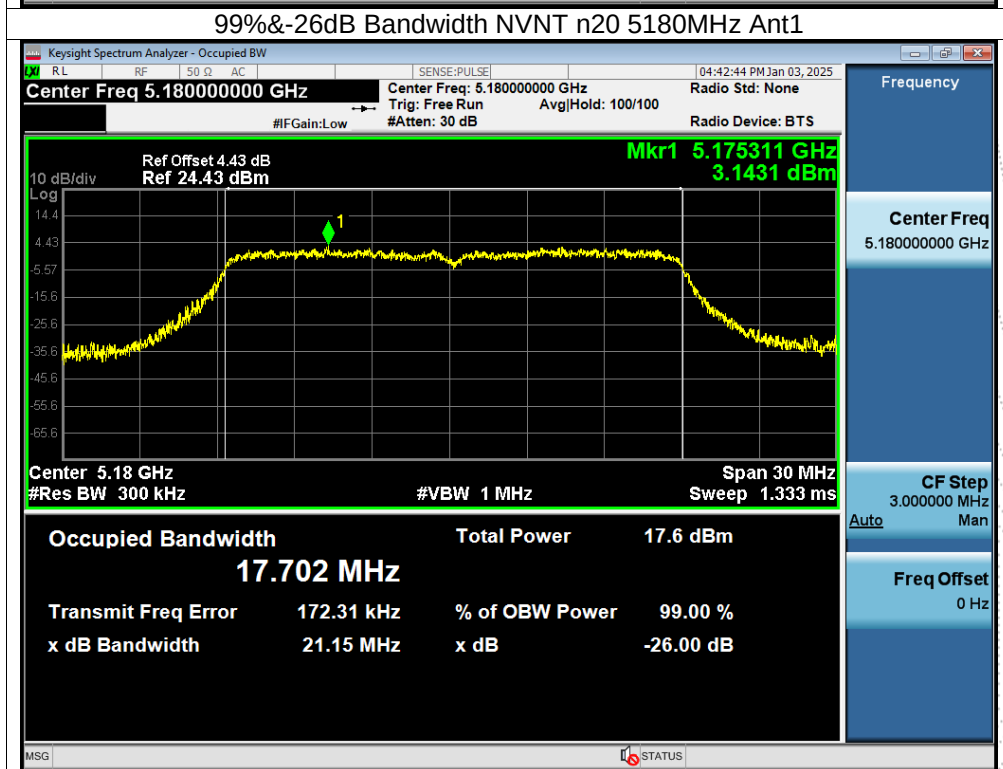
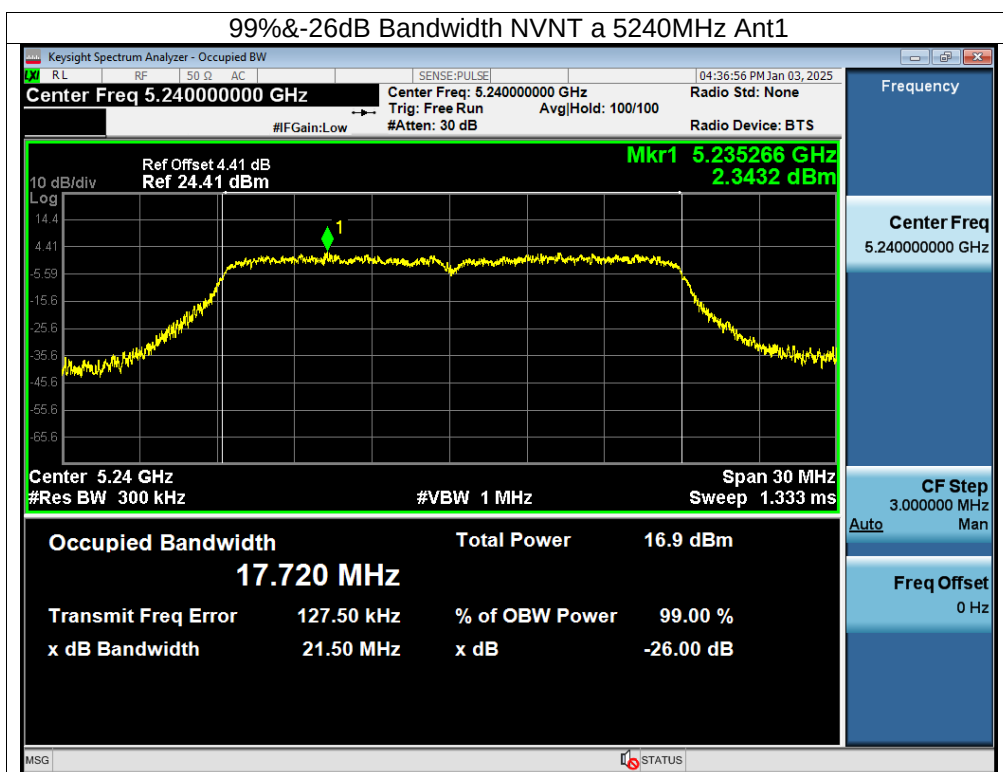
9.5 Test Result

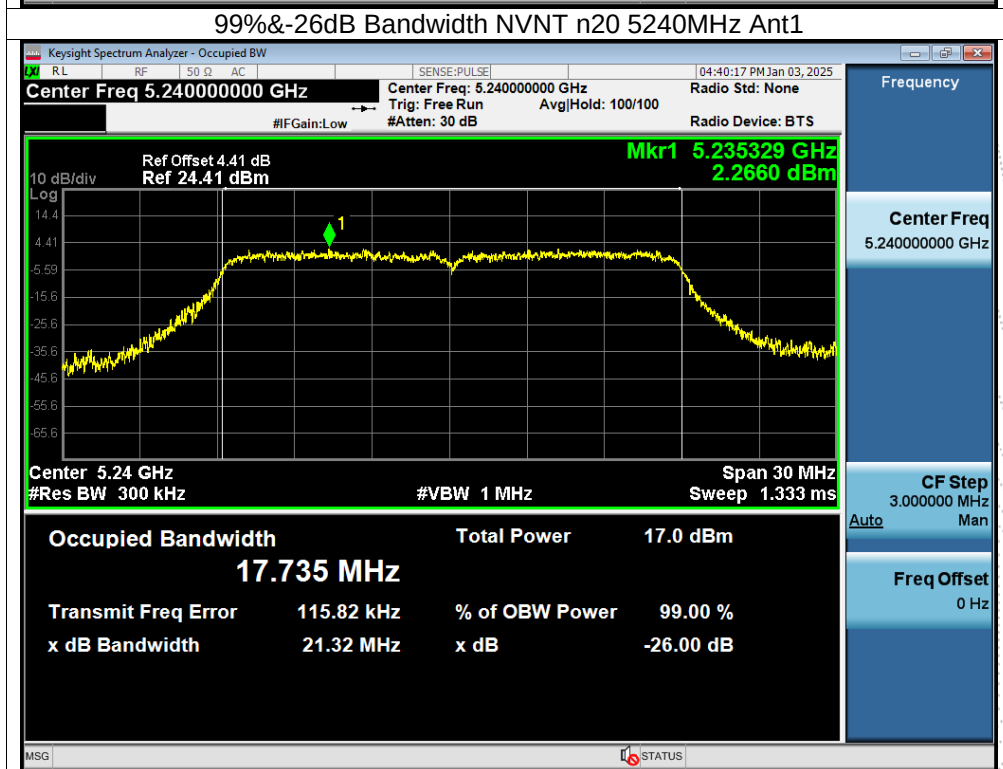
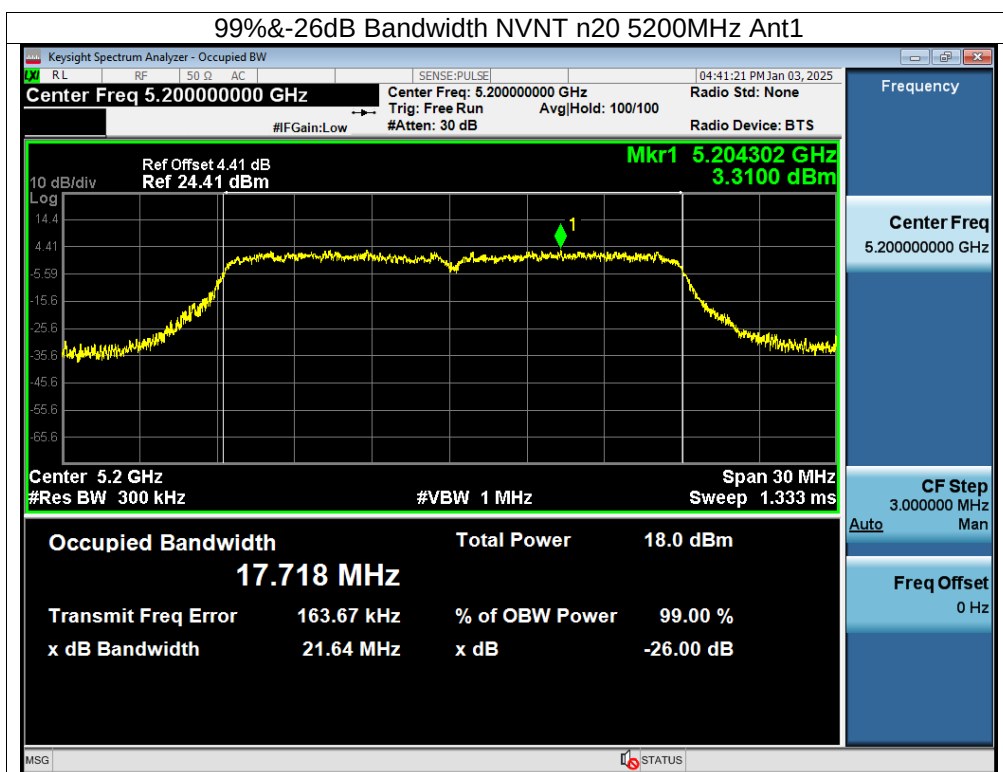
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.7V
Test Mode:	(5180-5240MHz)		

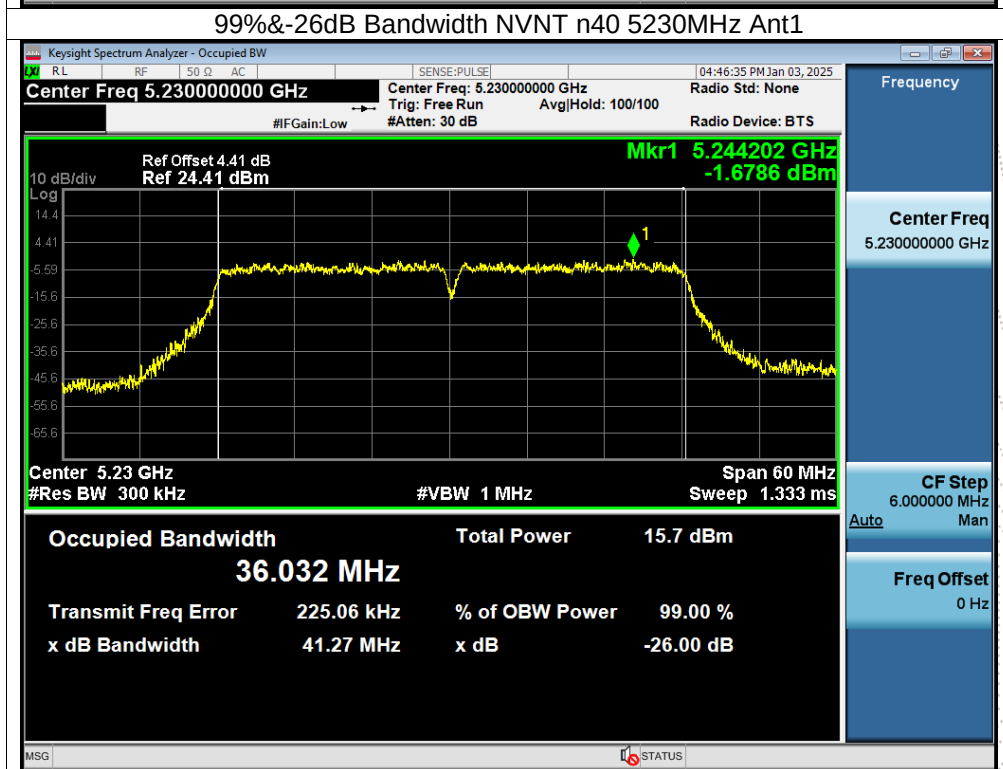
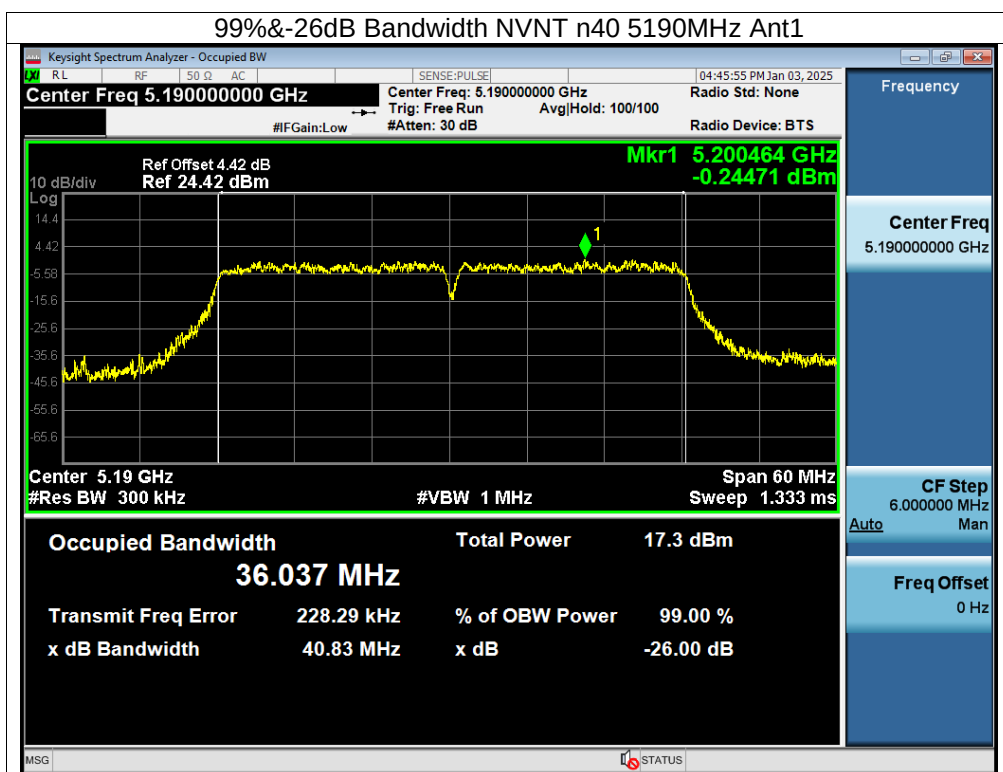
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	21.495	Pass
NVNT	a	5200	21.403	Pass
NVNT	a	5240	21.496	Pass
NVNT	n20	5180	21.155	Pass
NVNT	n20	5200	21.641	Pass
NVNT	n20	5240	21.316	Pass
NVNT	n40	5190	40.827	Pass
NVNT	n40	5230	41.271	Pass
NVNT	ac20	5180	21.532	Pass
NVNT	ac20	5200	21.55	Pass
NVNT	ac20	5240	21.517	Pass
NVNT	ac40	5190	41.007	Pass
NVNT	ac40	5230	40.958	Pass
NVNT	ac80	5210	79.515	Pass

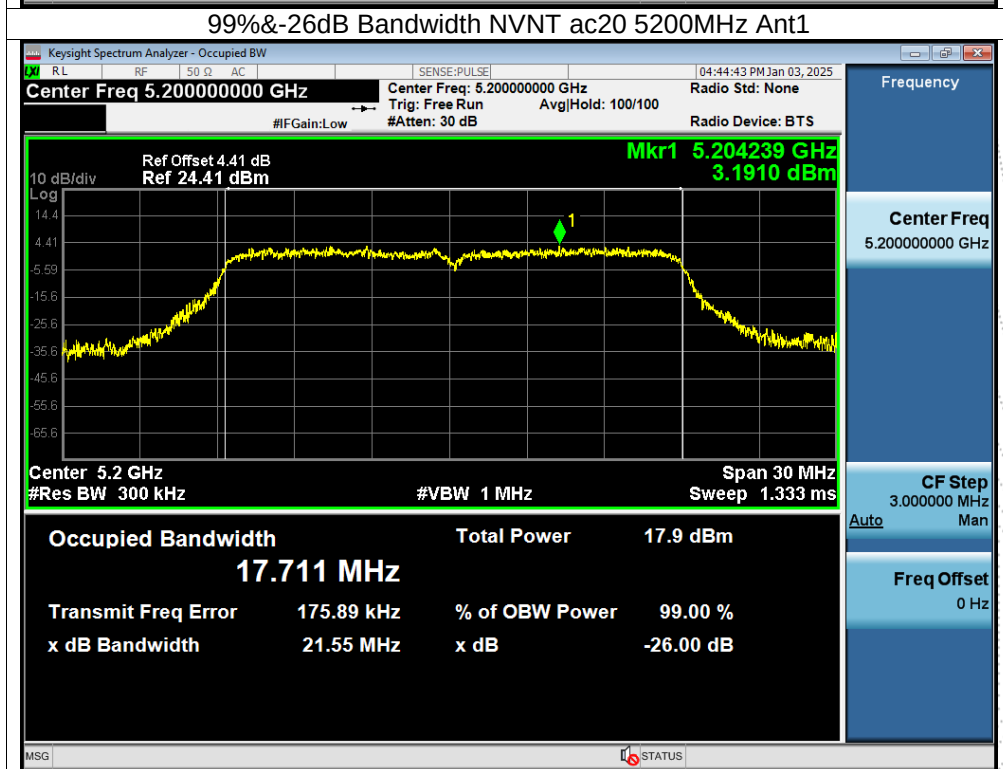
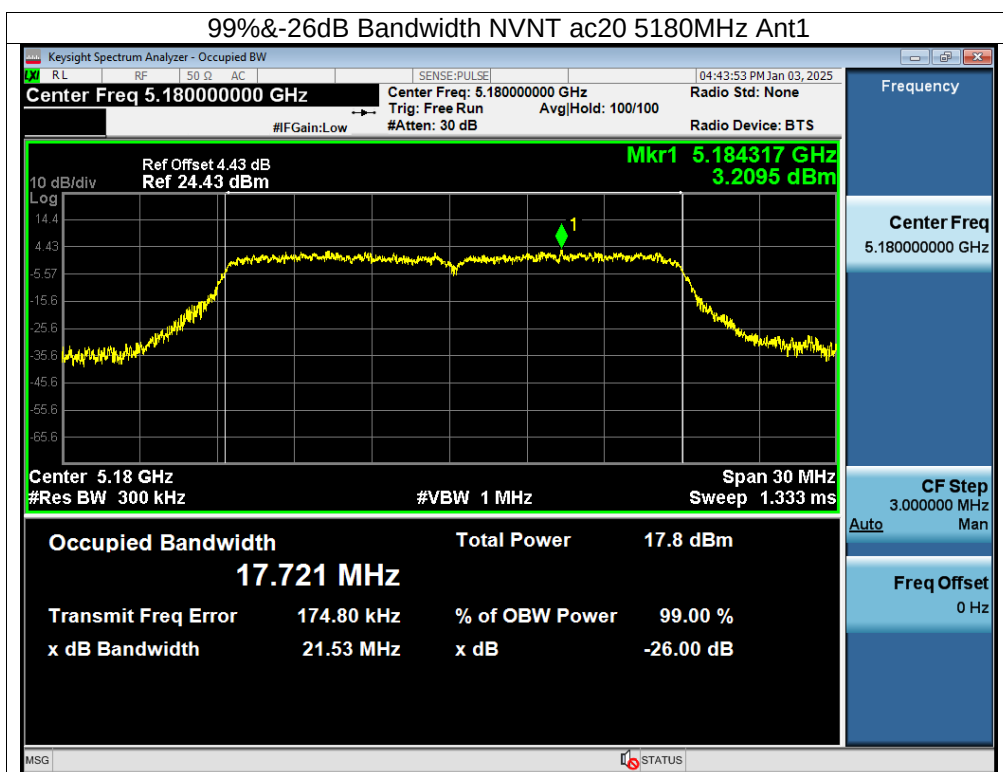
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	17.727
NVNT	a	5200	17.711
NVNT	a	5240	17.720
NVNT	n20	5180	17.702
NVNT	n20	5200	17.718
NVNT	n20	5240	17.735
NVNT	n40	5190	36.037
NVNT	n40	5230	36.032
NVNT	ac20	5180	17.721
NVNT	ac20	5200	17.711
NVNT	ac20	5240	17.730
NVNT	ac40	5190	36.027
NVNT	ac40	5230	36.230
NVNT	ac80	5210	75.488

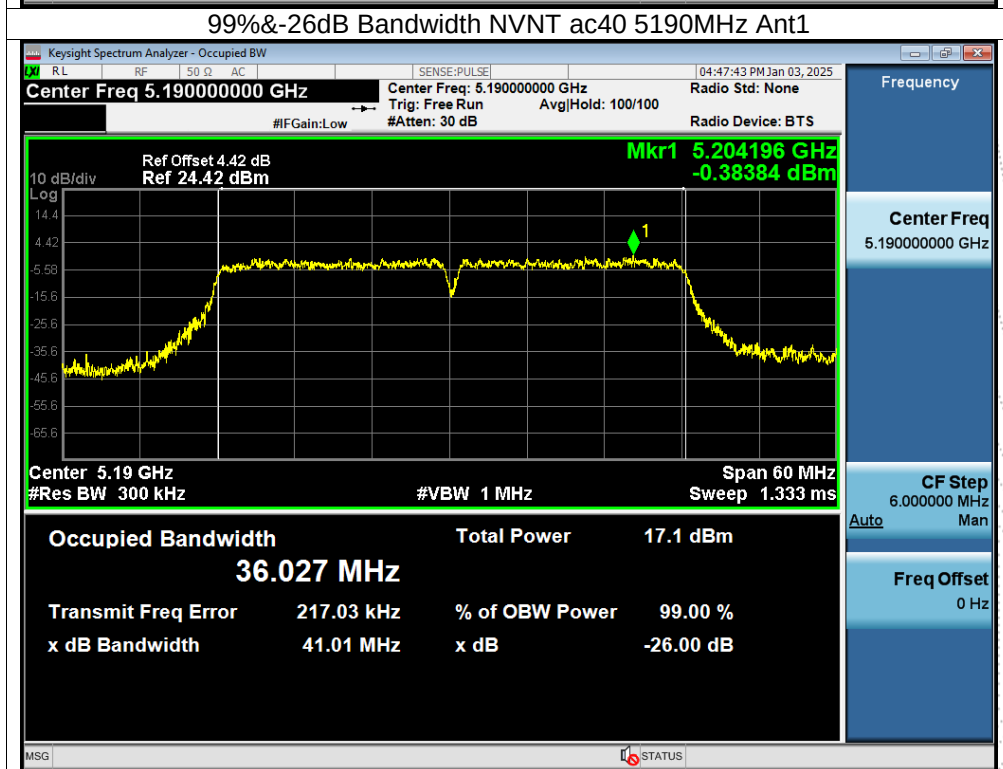
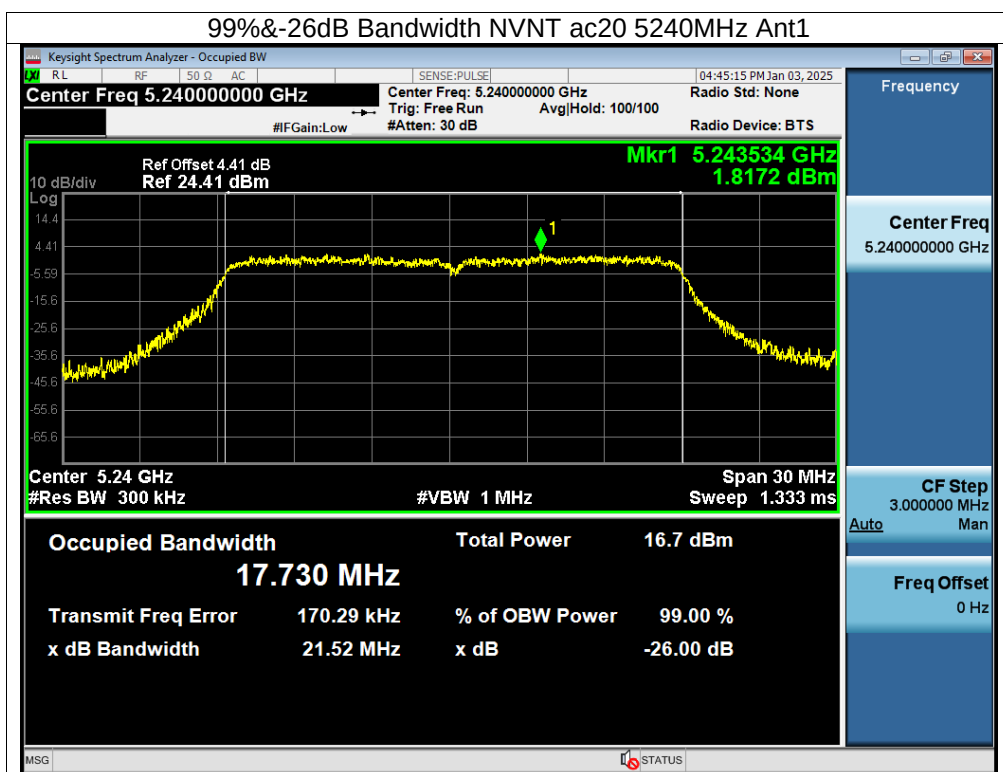


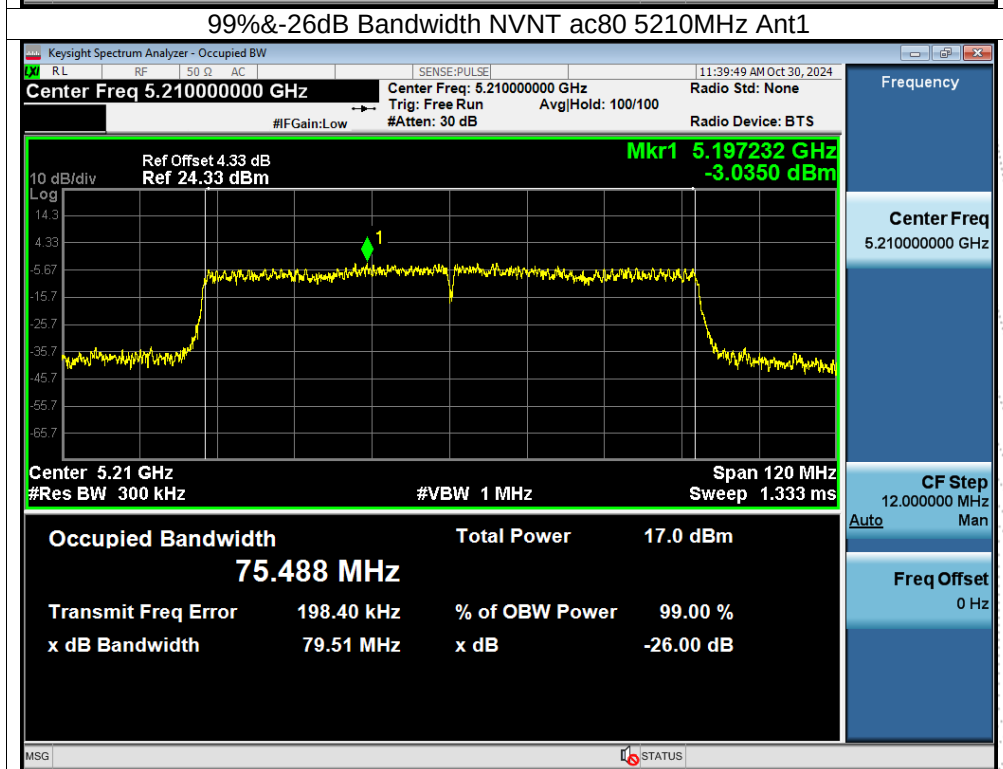
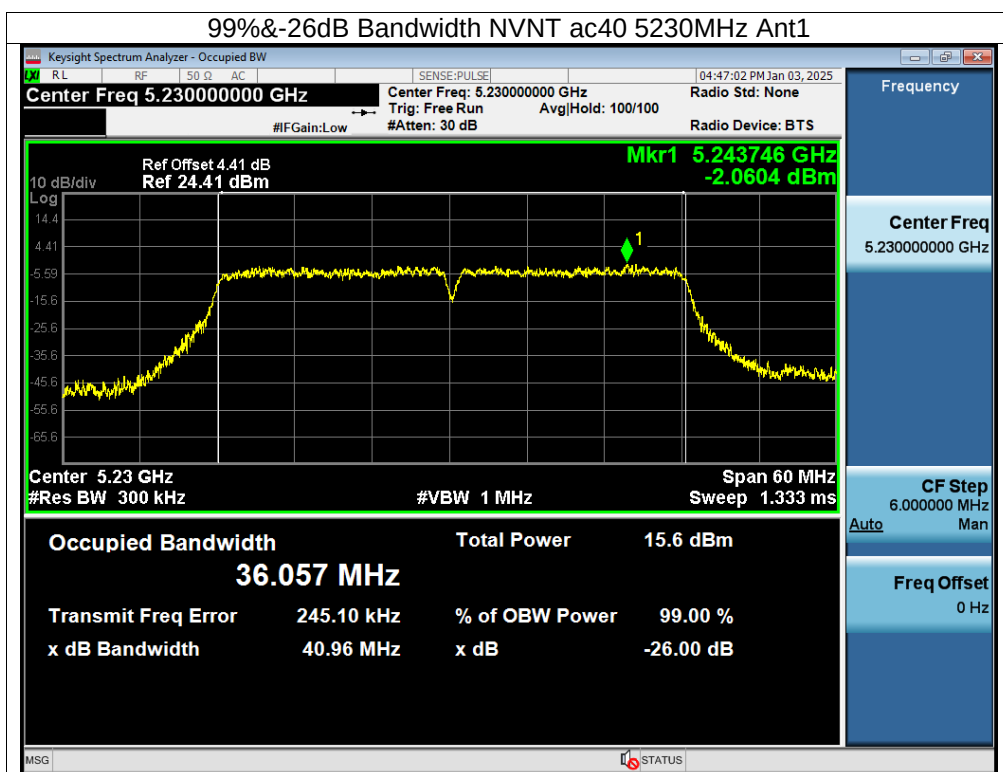








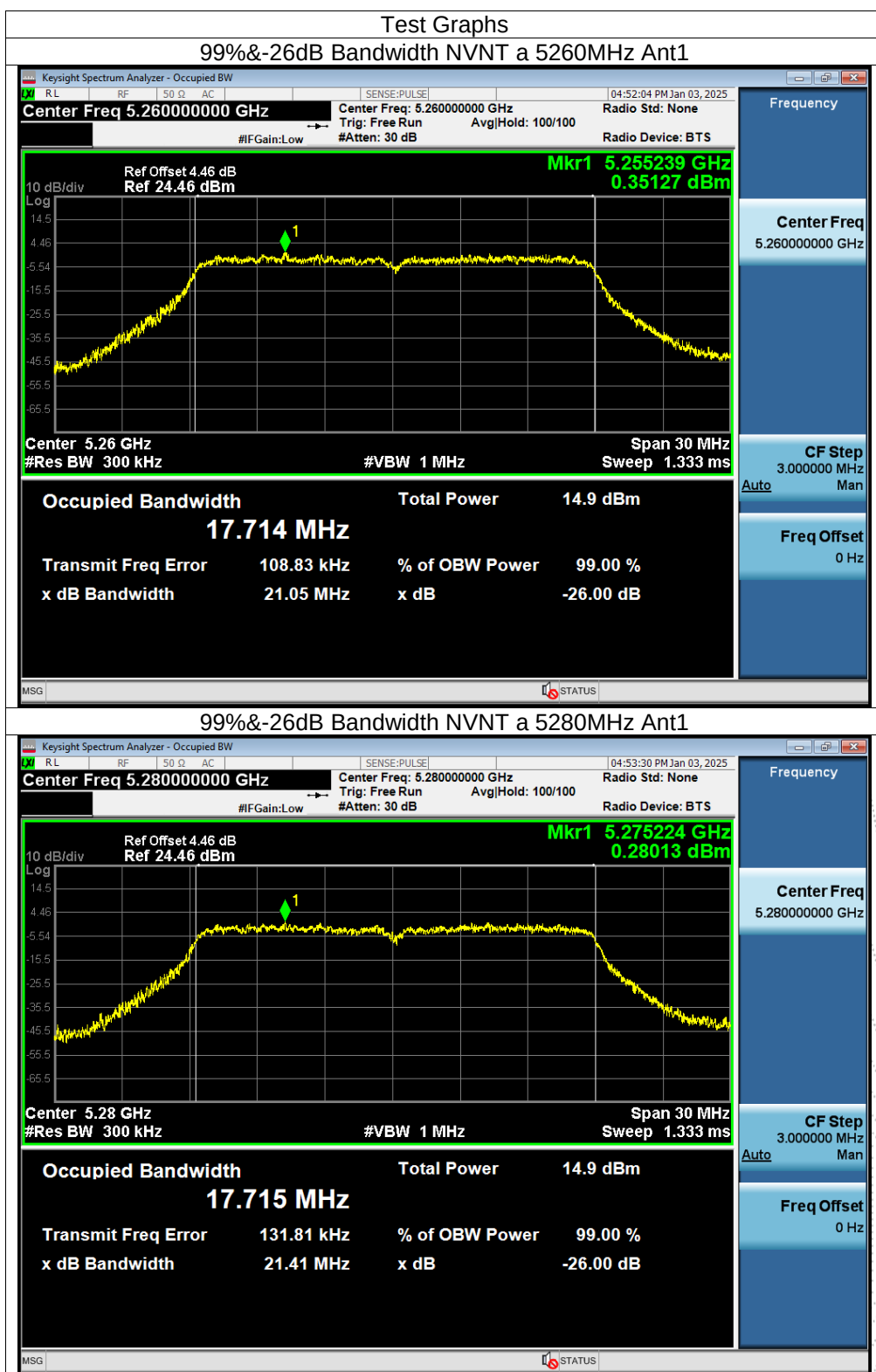


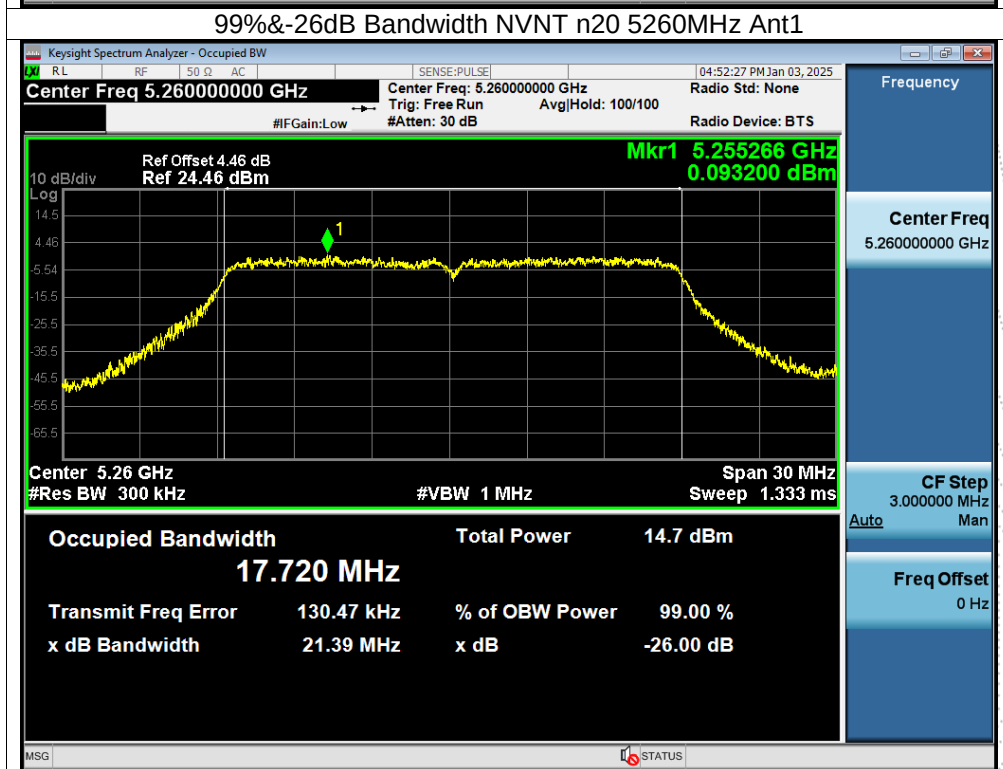
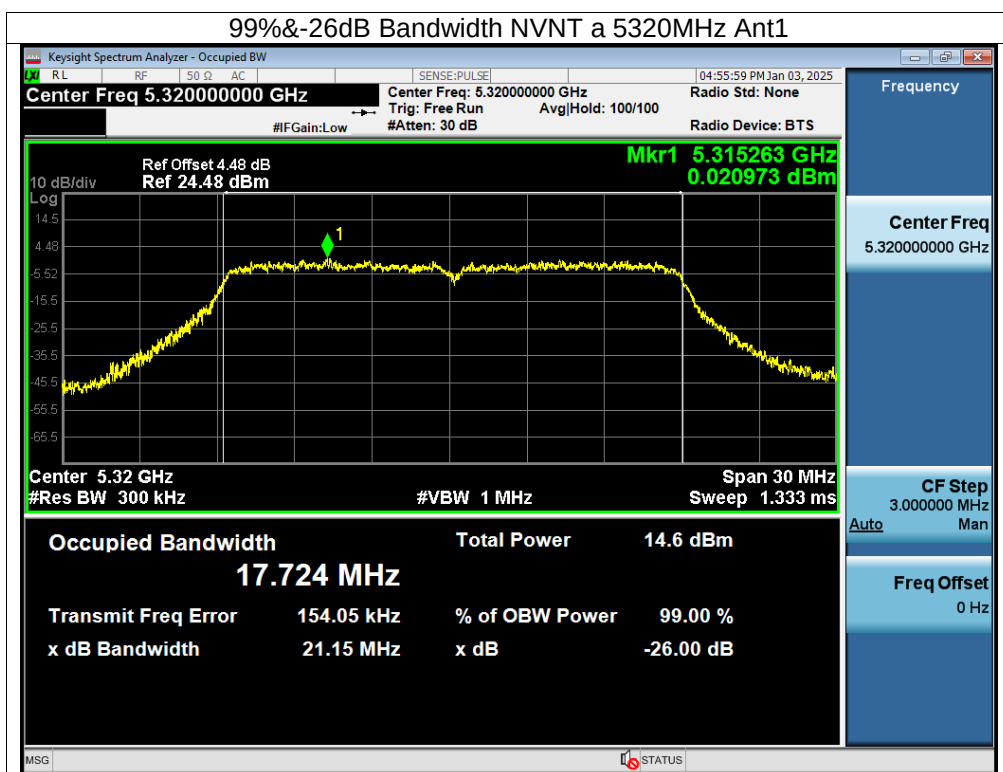


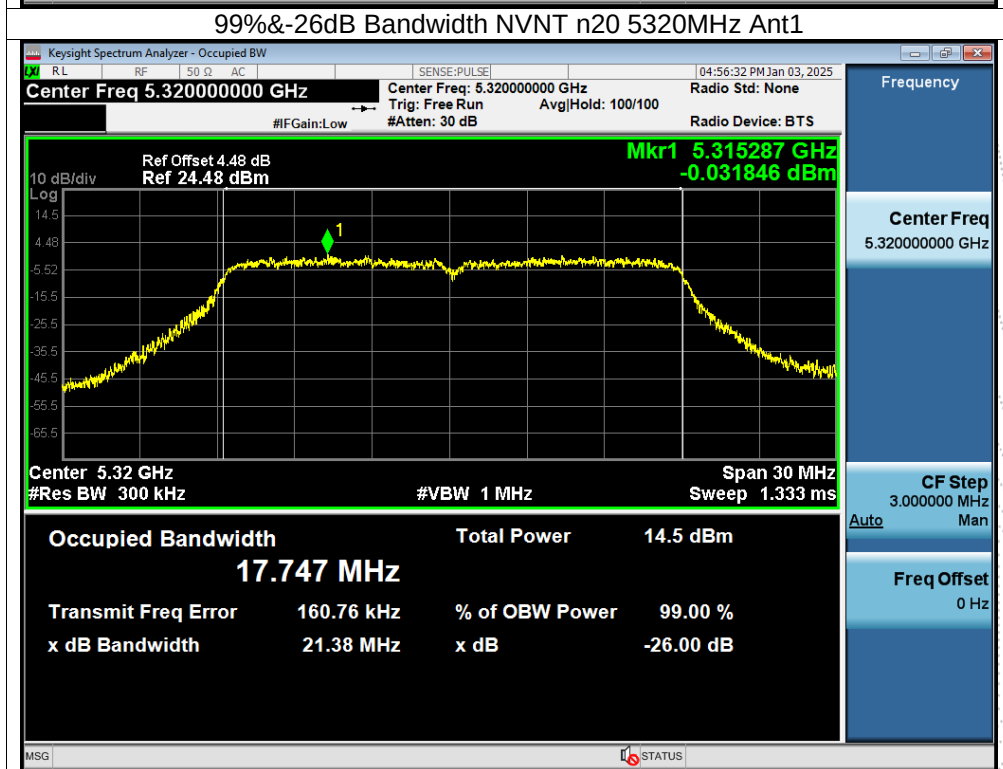
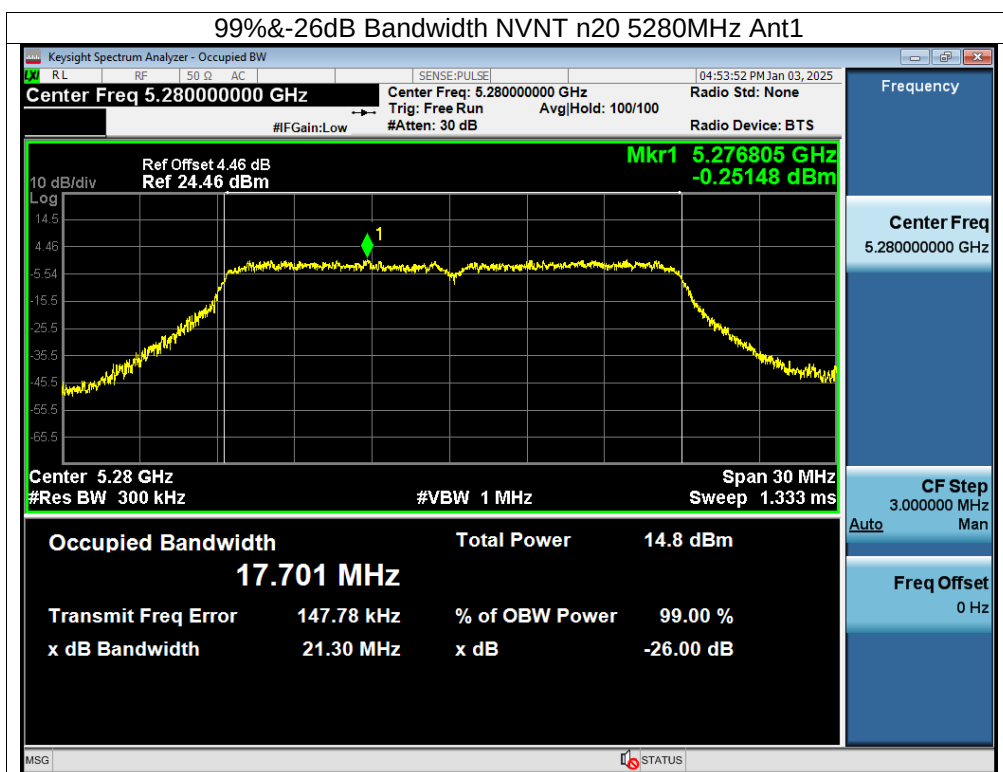
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.7V
Test Mode:	(5260-5320MHz)		

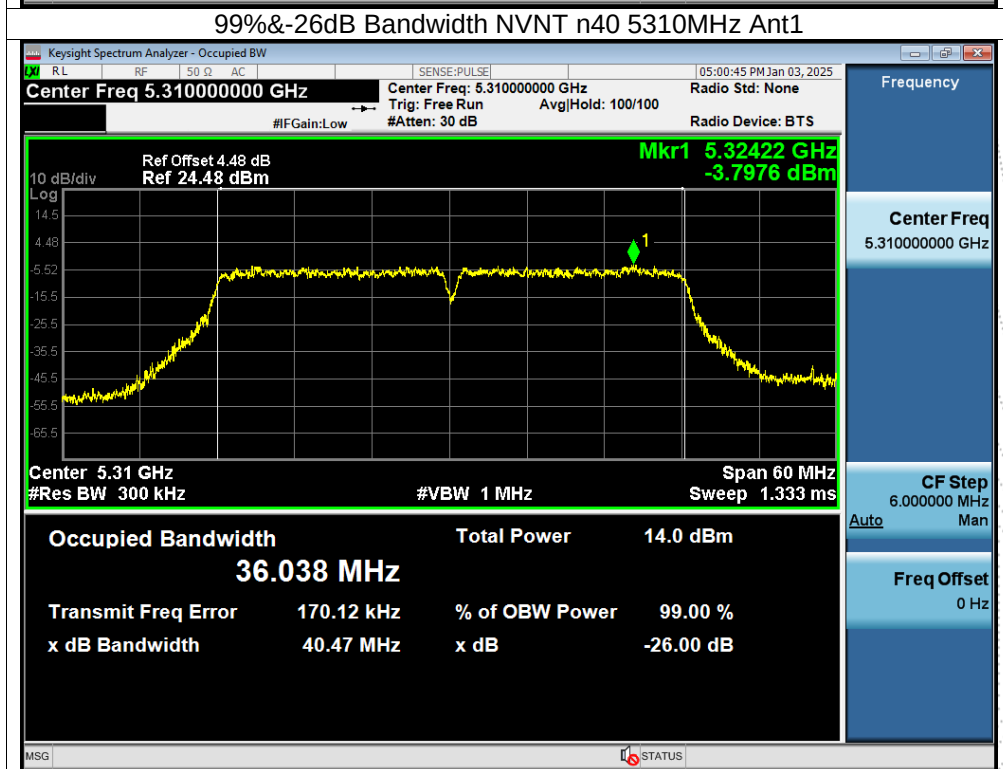
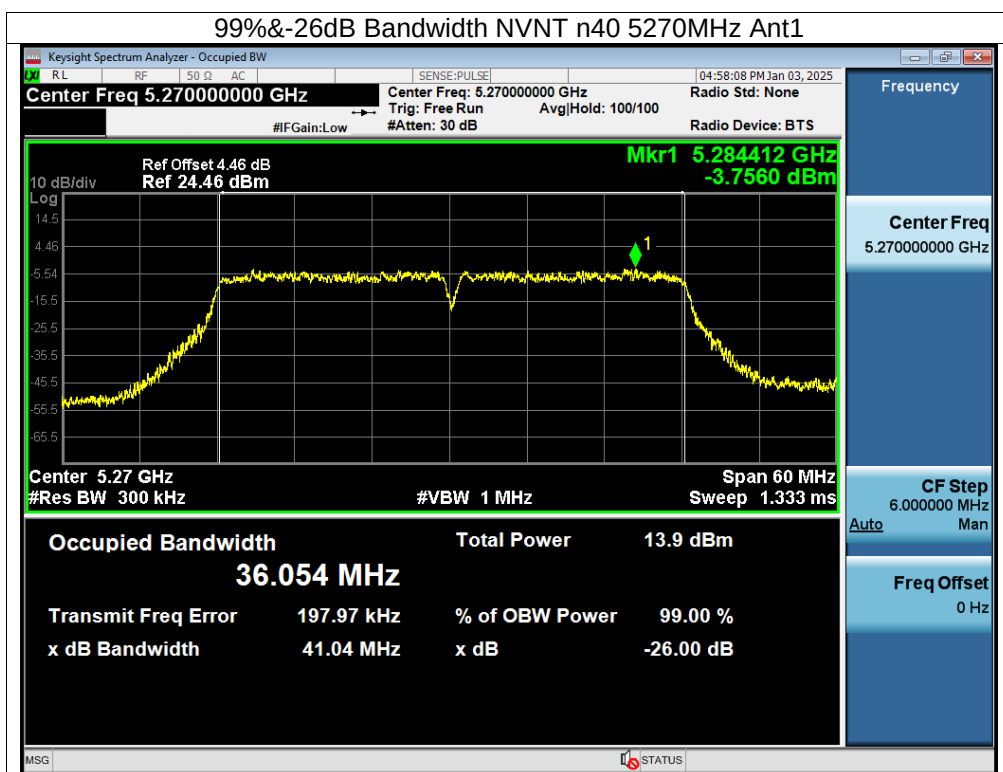
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	21.053	Pass
NVNT	a	5280	21.415	Pass
NVNT	a	5320	21.154	Pass
NVNT	n20	5260	21.392	Pass
NVNT	n20	5280	21.301	Pass
NVNT	n20	5320	21.384	Pass
NVNT	n40	5270	41.037	Pass
NVNT	n40	5310	40.472	Pass
NVNT	ac20	5260	21.538	Pass
NVNT	ac20	5280	21.335	Pass
NVNT	ac20	5320	21.131	Pass
NVNT	ac40	5270	41.093	Pass
NVNT	ac40	5310	40.654	Pass
NVNT	ac80	5290	78.794	Pass

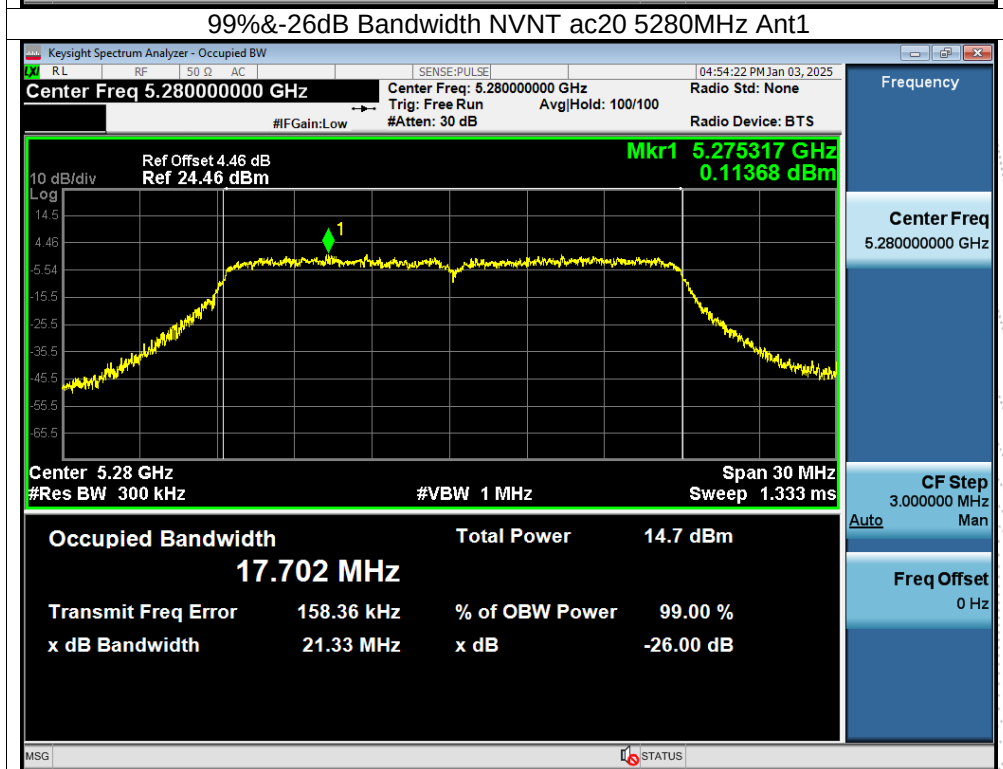
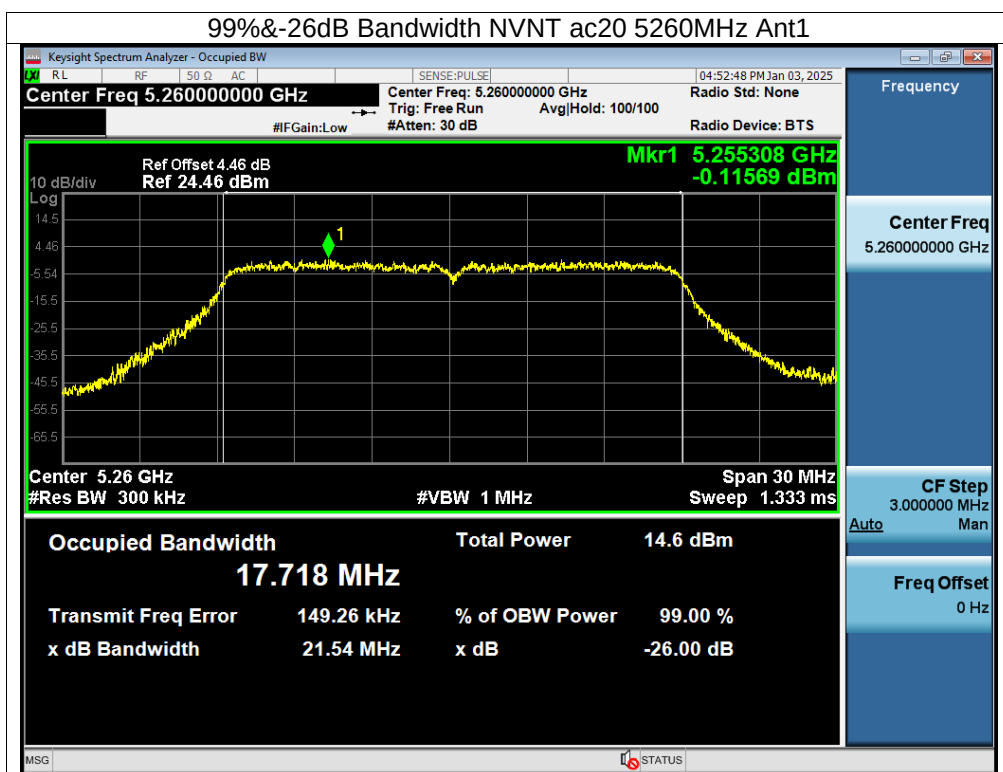
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5260	17.714
NVNT	a	5280	17.715
NVNT	a	5320	17.724
NVNT	n20	5260	17.720
NVNT	n20	5280	17.701
NVNT	n20	5320	17.747
NVNT	n40	5270	36.054
NVNT	n40	5310	36.038
NVNT	ac20	5260	17.718
NVNT	ac20	5280	17.702
NVNT	ac20	5320	17.711
NVNT	ac40	5270	36.081
NVNT	ac40	5310	36.014
NVNT	ac80	5290	75.383

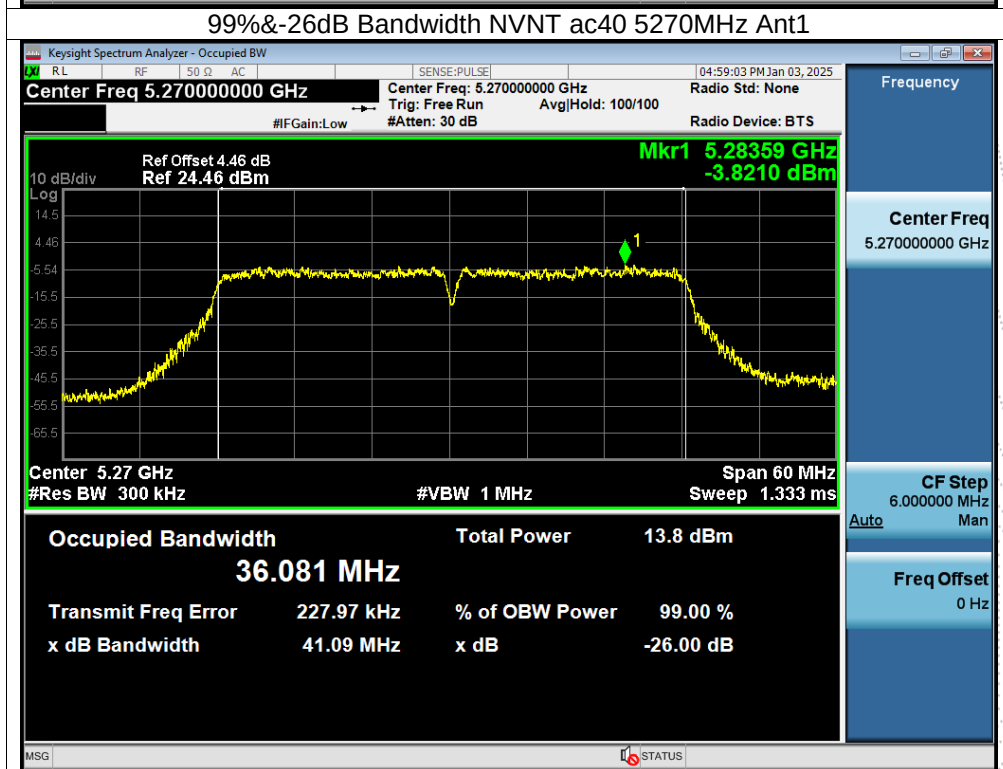
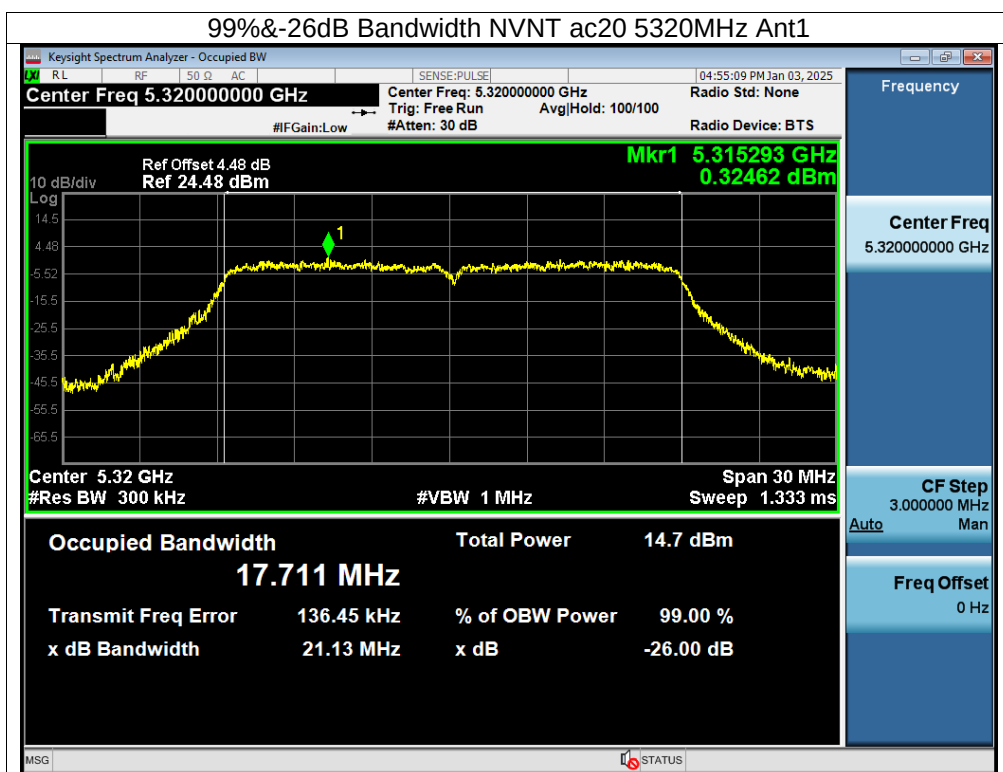


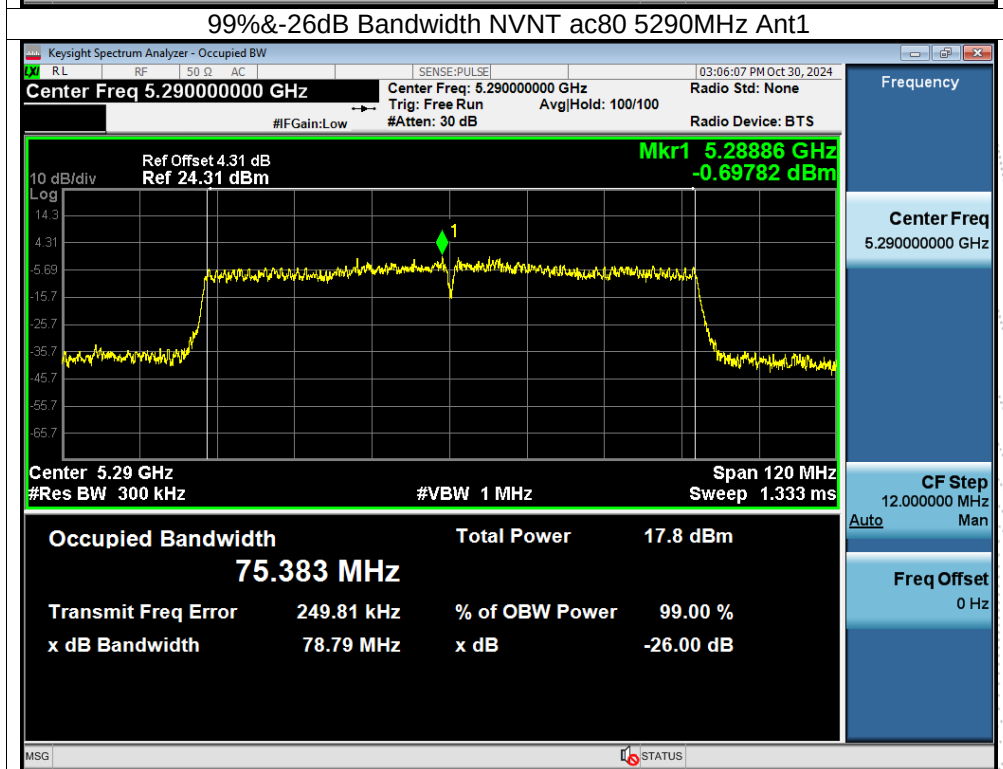
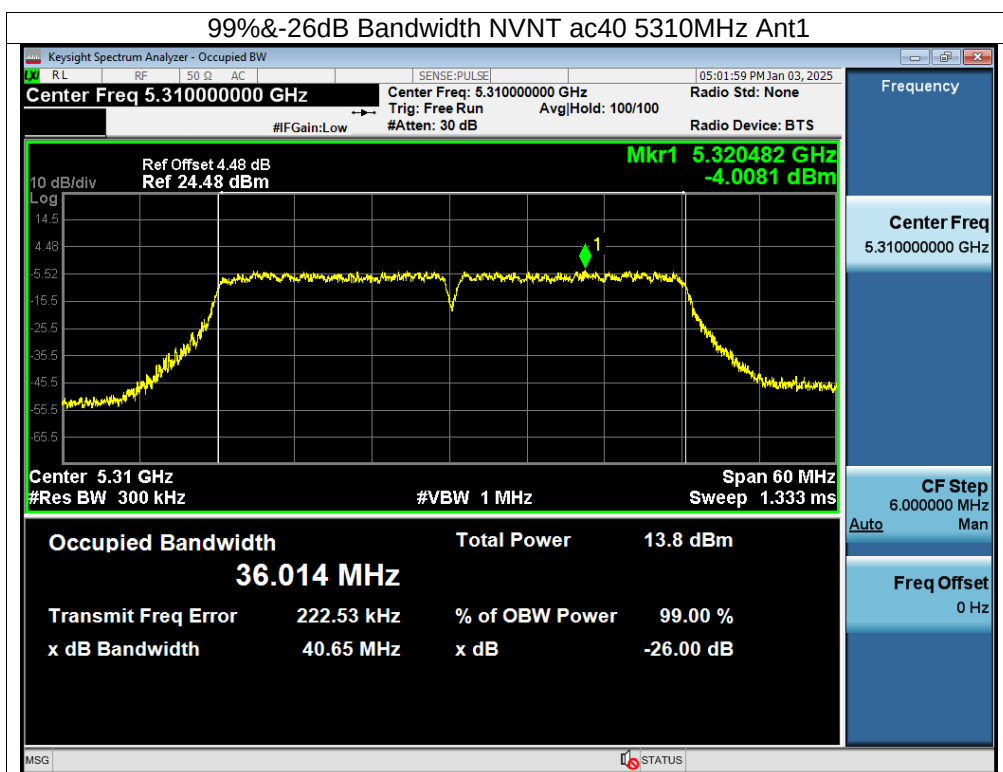








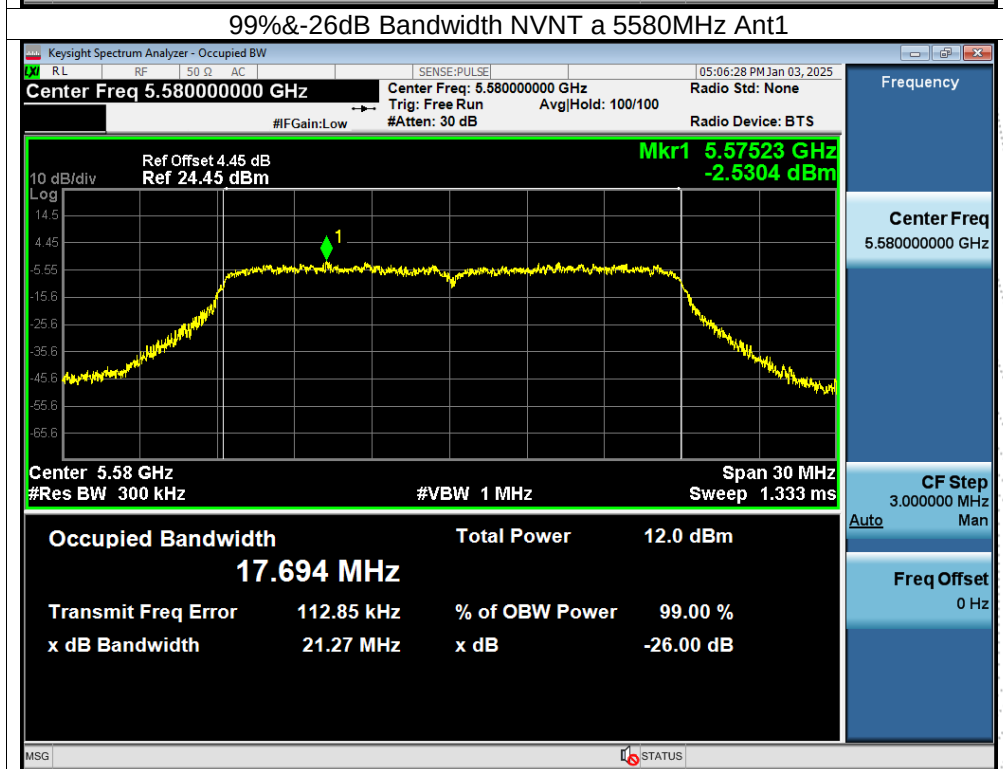
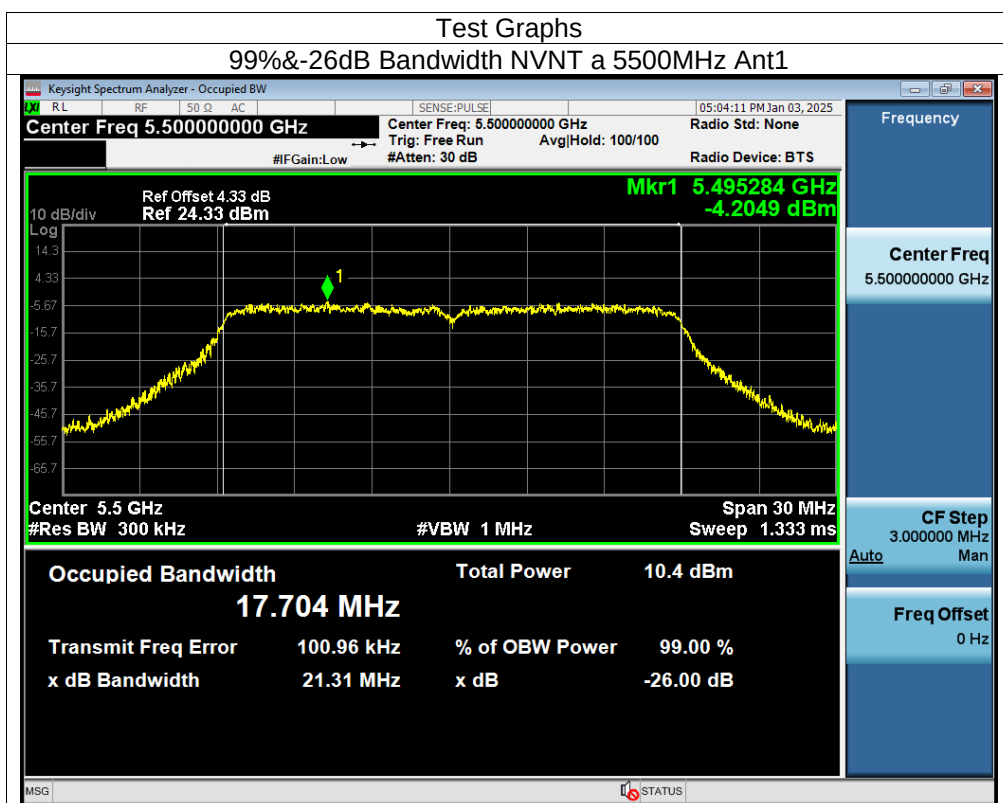


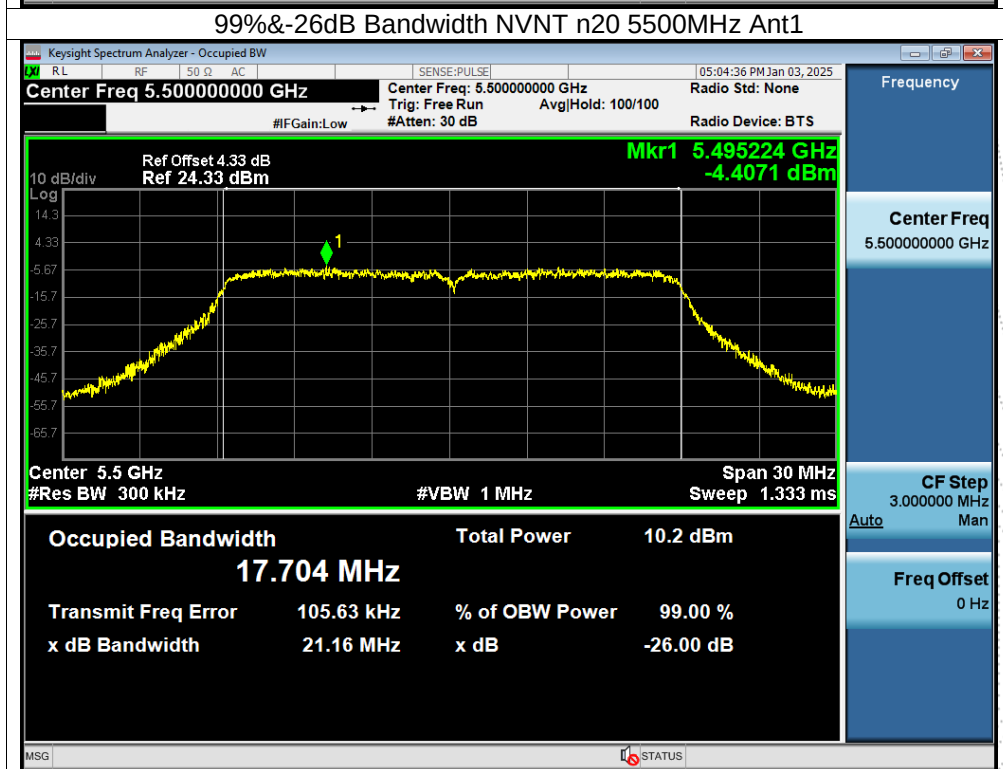
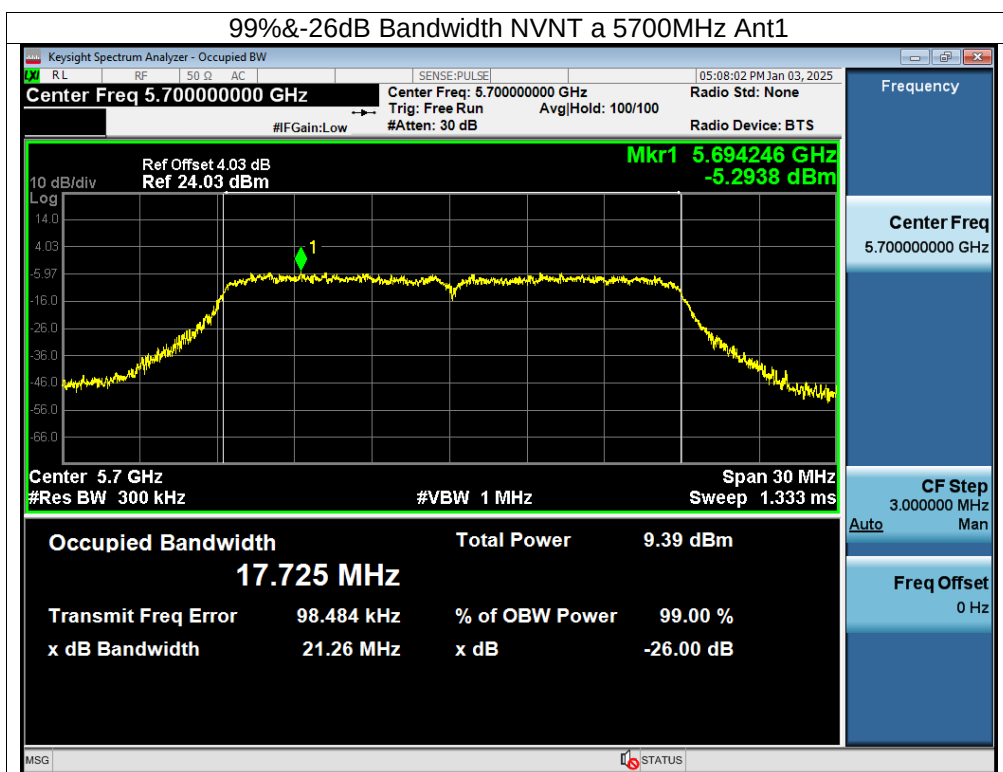


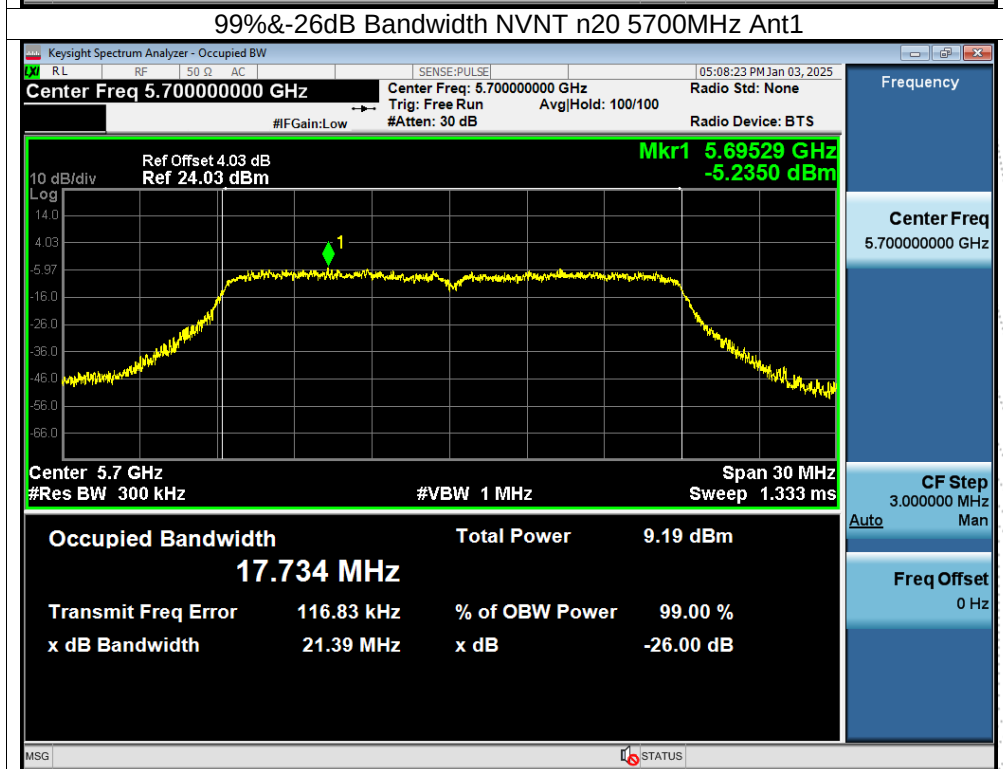
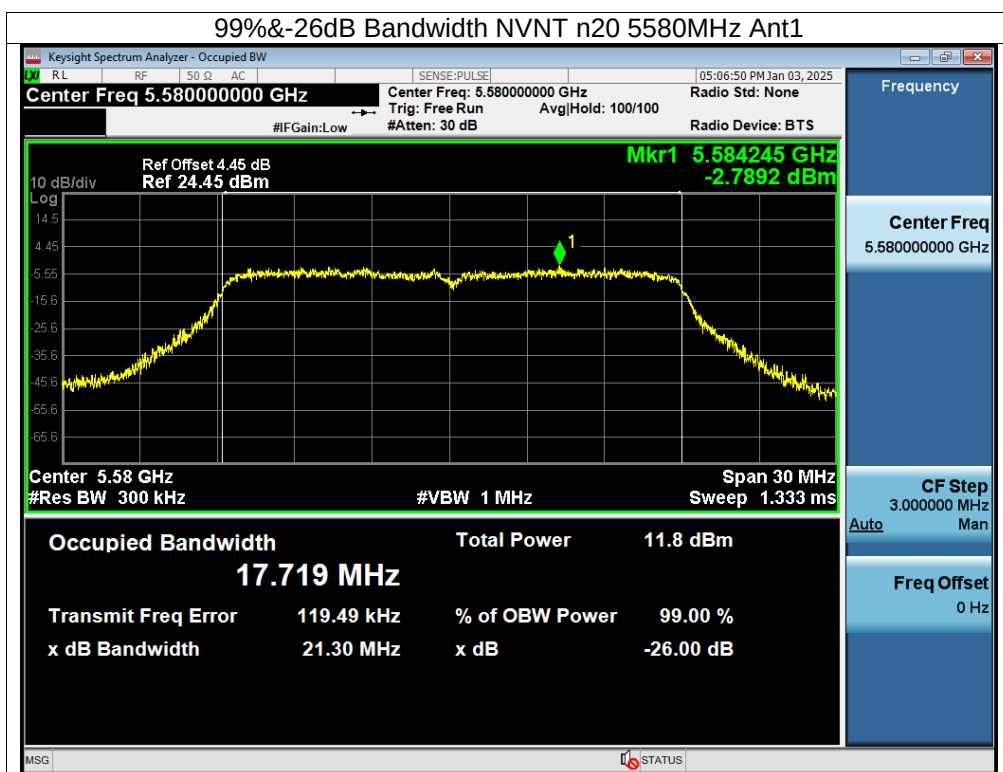
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.7V
Test Mode:	(5500-5700MHz)		

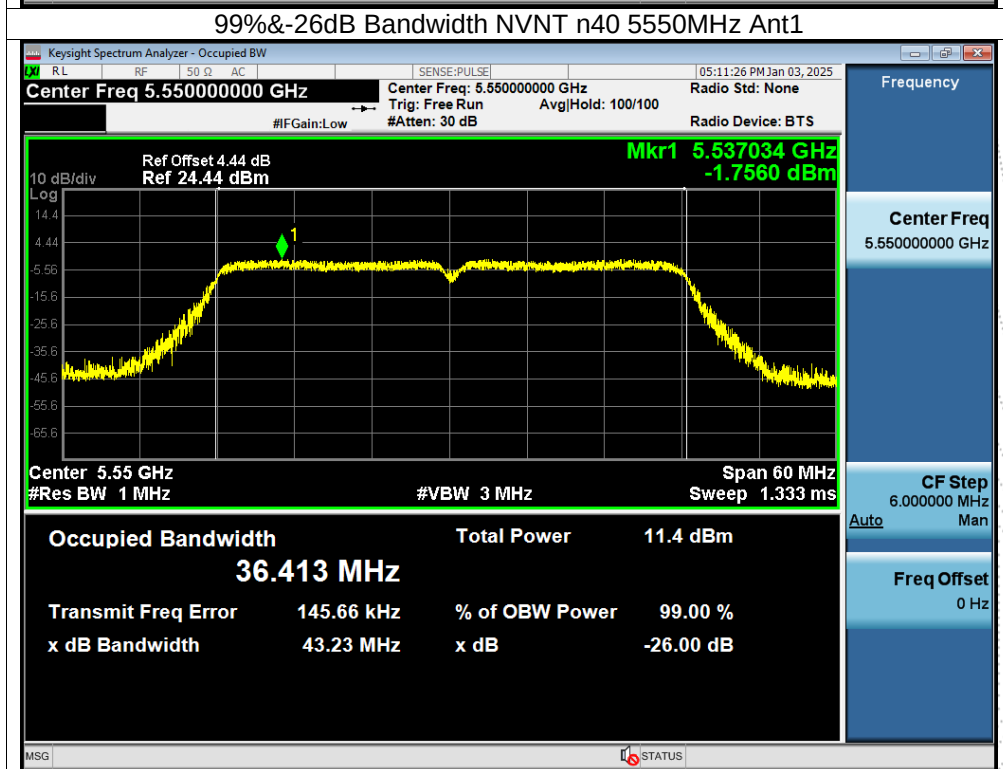
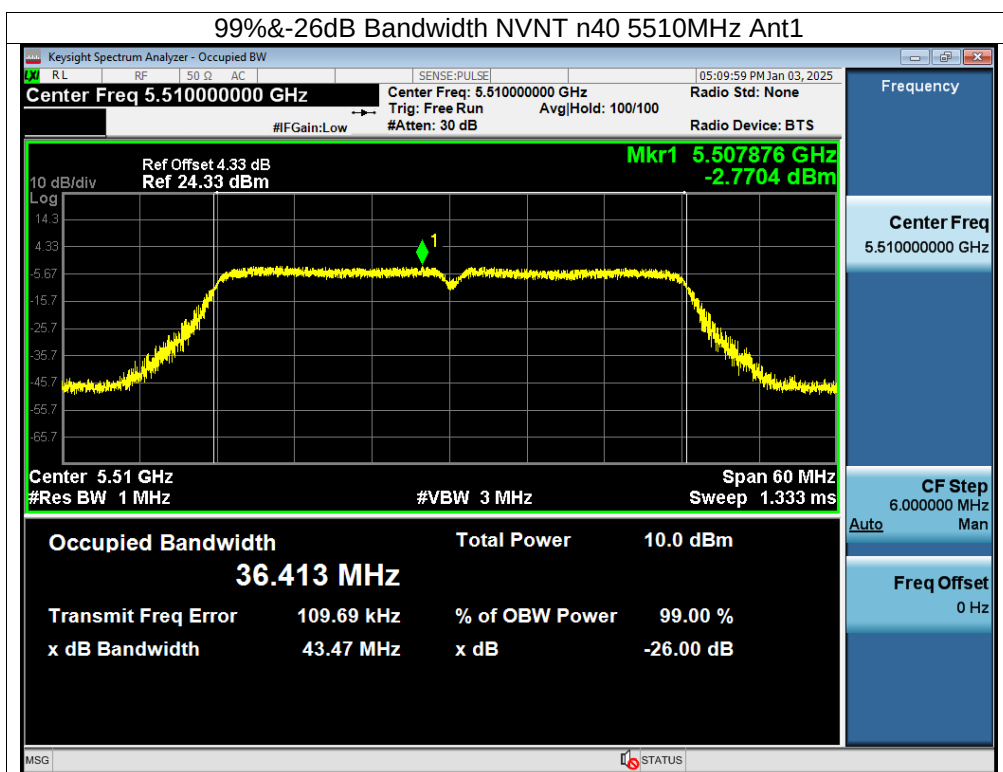
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	21.312	Pass
NVNT	a	5580	21.268	Pass
NVNT	a	5700	21.265	Pass
NVNT	n20	5500	21.163	Pass
NVNT	n20	5580	21.301	Pass
NVNT	n20	5700	21.392	Pass
NVNT	n40	5510	43.467	Pass
NVNT	n40	5550	43.227	Pass
NVNT	n40	5670	42.908	Pass
NVNT	ac20	5500	21.359	Pass
NVNT	ac20	5580	21.355	Pass
NVNT	ac20	5700	21.158	Pass
NVNT	ac40	5510	43.06	Pass
NVNT	ac40	5550	43.69	Pass
NVNT	ac40	5670	42.305	Pass
NVNT	ac80	5530	80.901	Pass

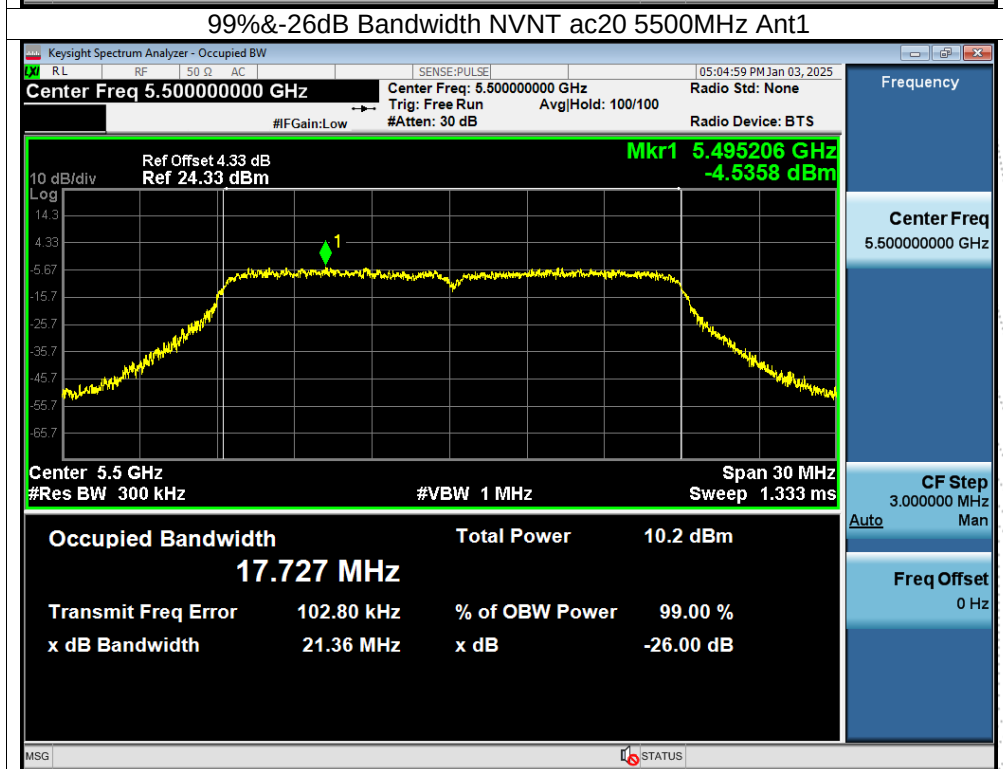
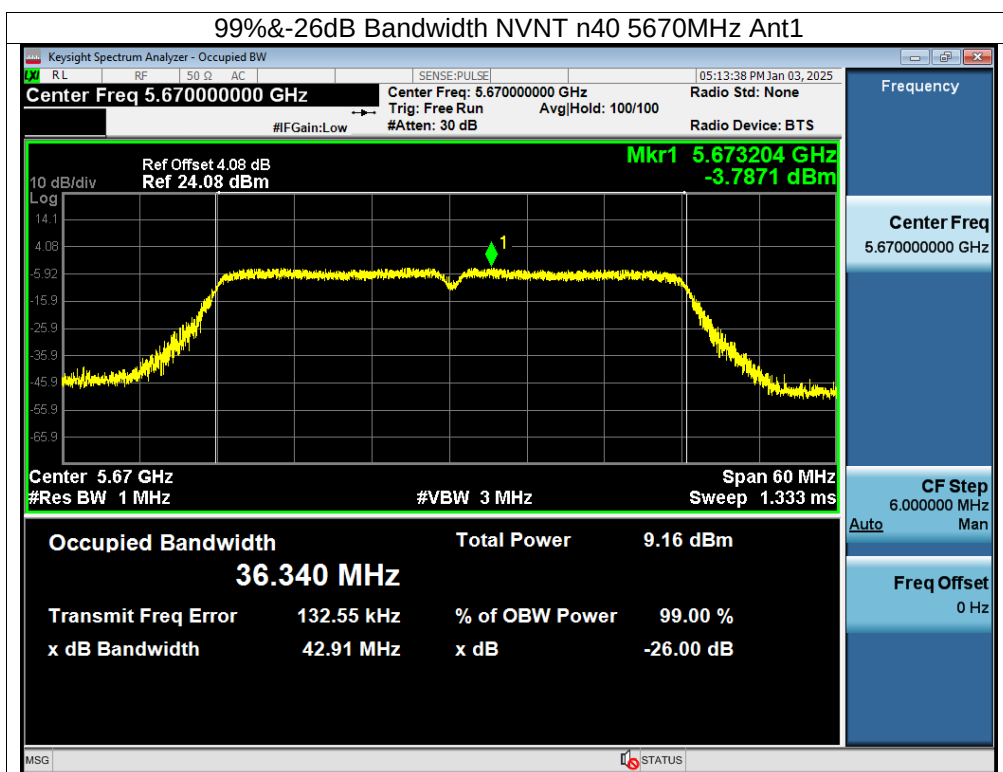
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5500	17.704
NVNT	a	5580	17.694
NVNT	a	5700	17.725
NVNT	n20	5500	17.704
NVNT	n20	5580	17.719
NVNT	n20	5700	17.734
NVNT	n40	5510	36.413
NVNT	n40	5550	36.413
NVNT	n40	5670	36.340
NVNT	ac20	5500	17.727
NVNT	ac20	5580	17.725
NVNT	ac20	5700	17.738
NVNT	ac40	5510	36.385
NVNT	ac40	5550	36.422
NVNT	ac40	5670	36.308
NVNT	ac80	5530	75.691

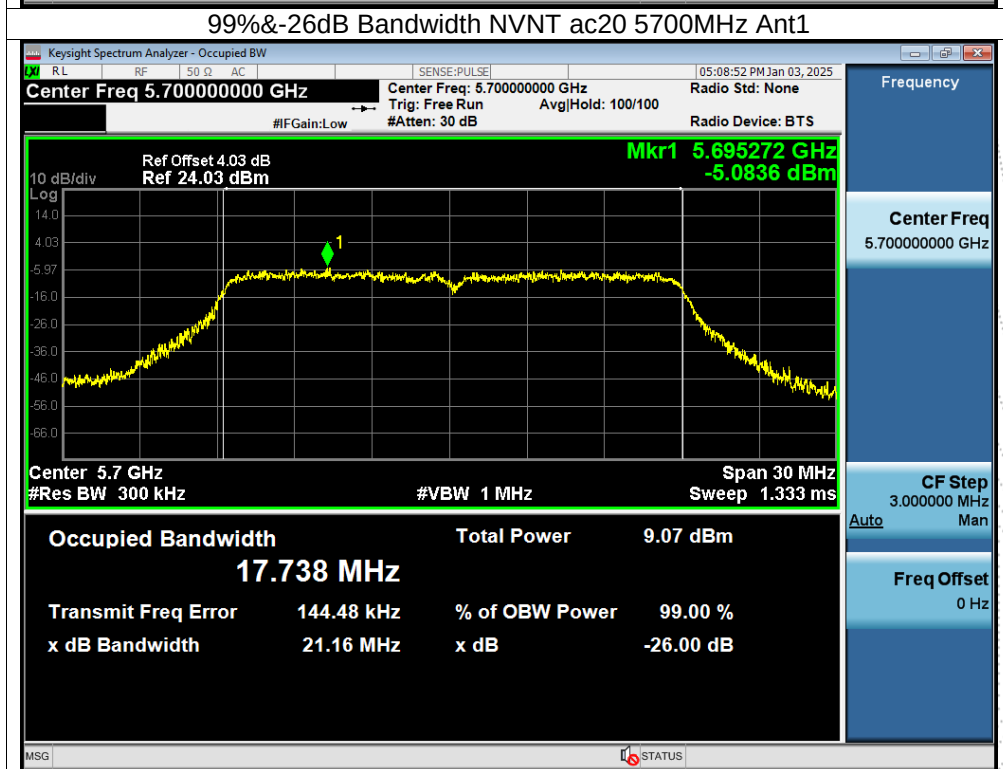
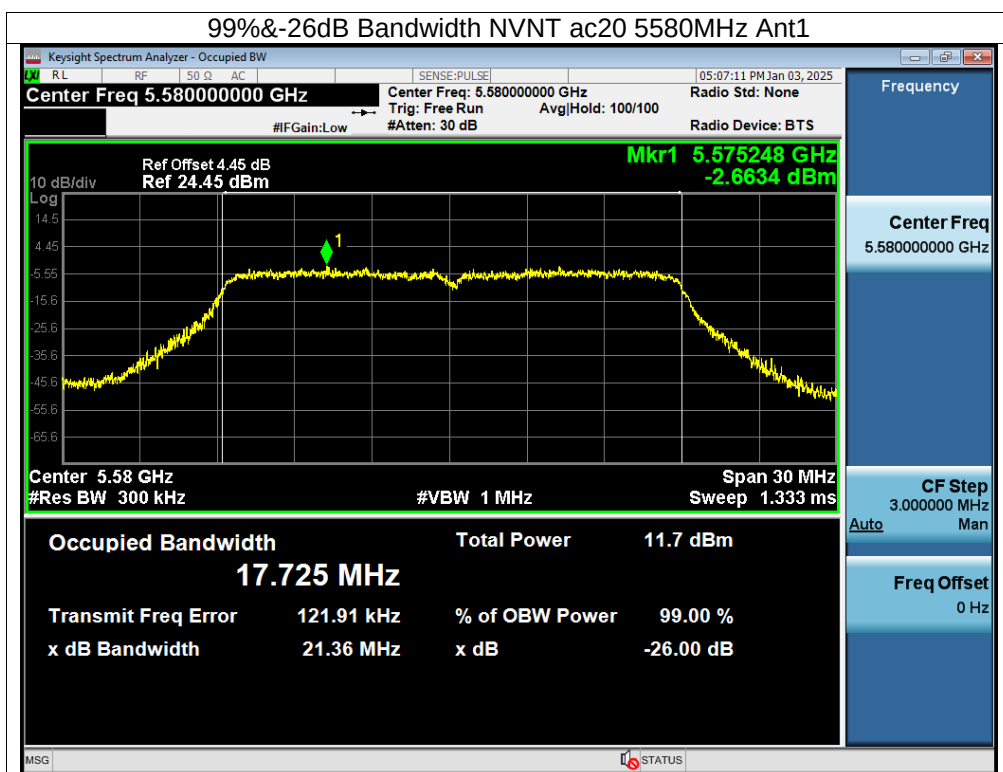


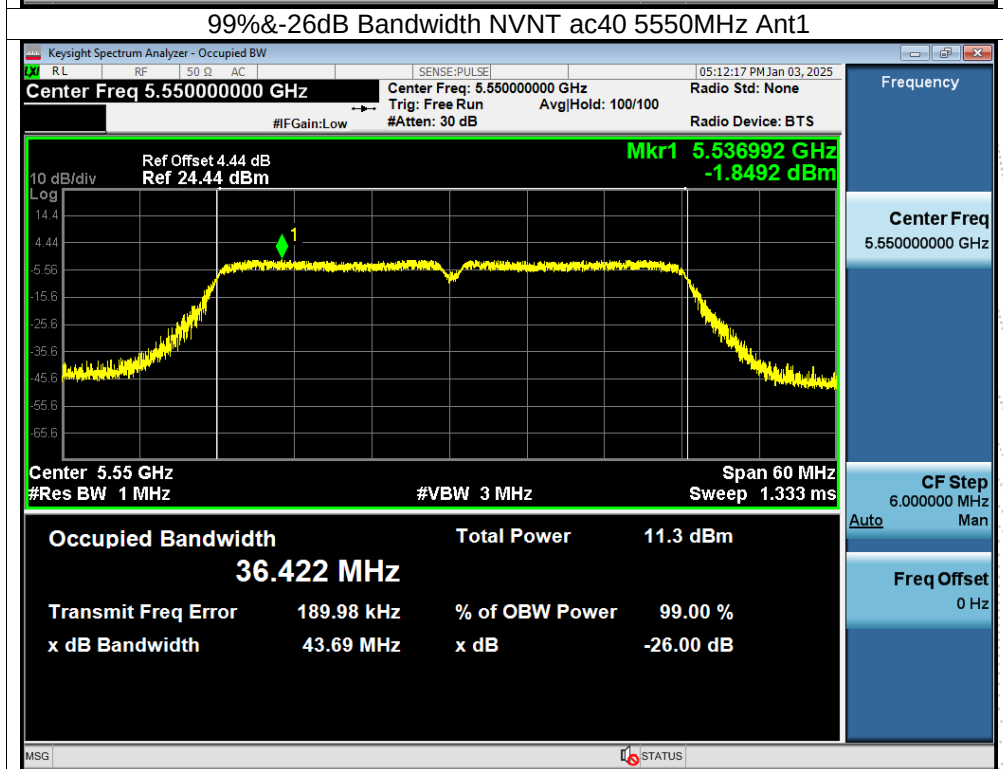
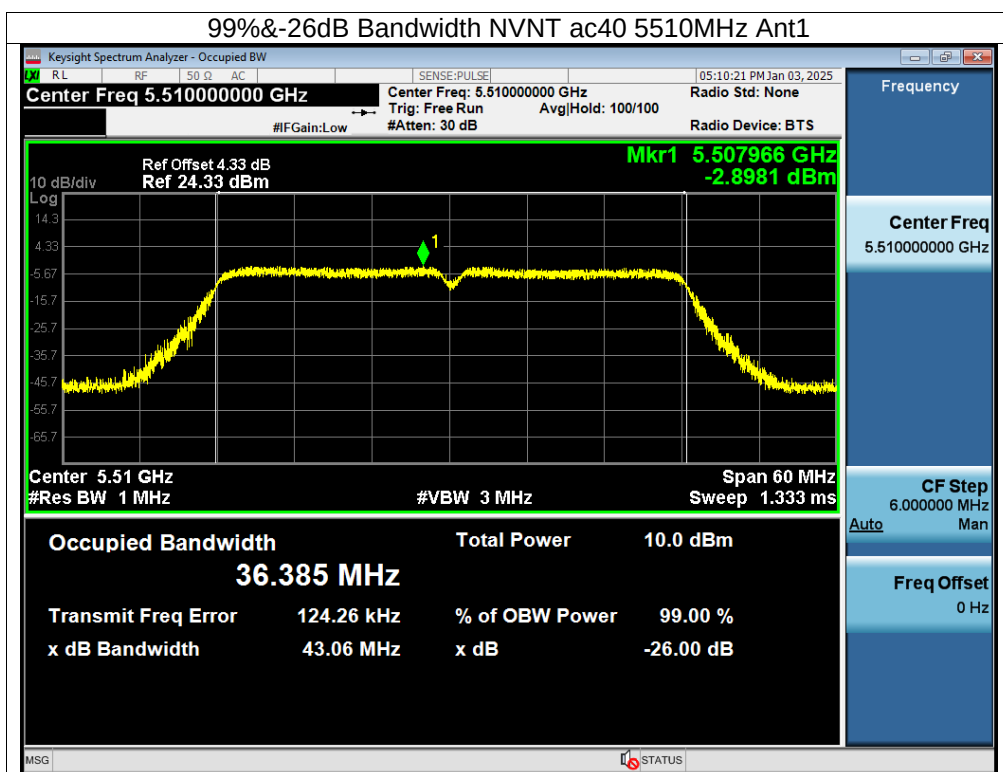


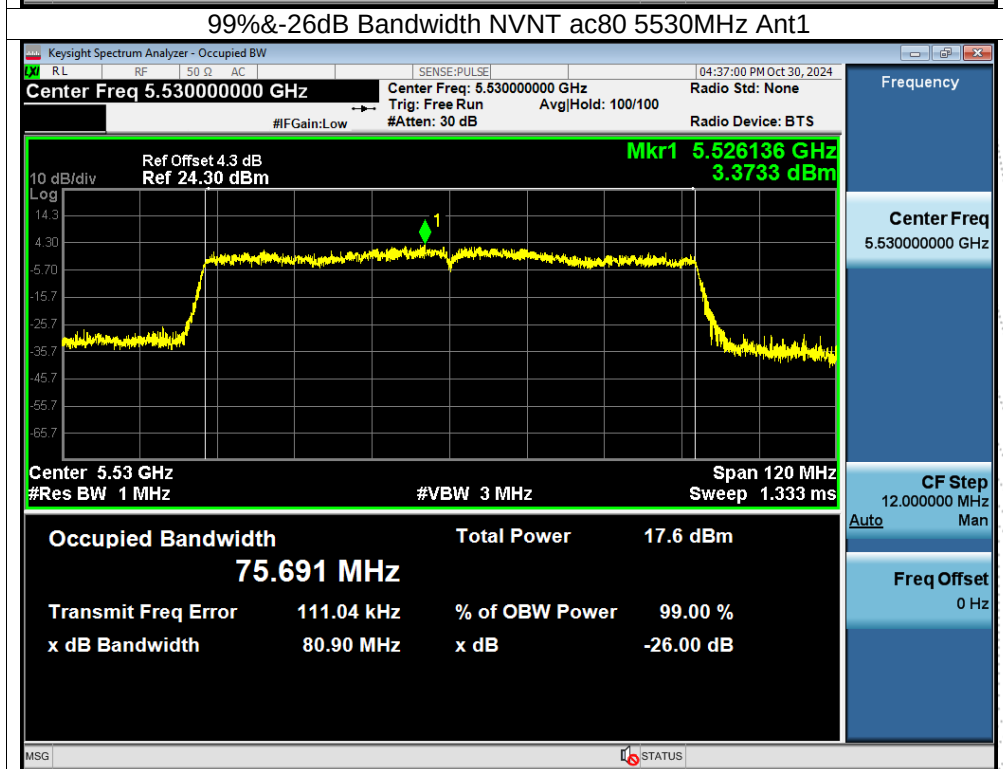
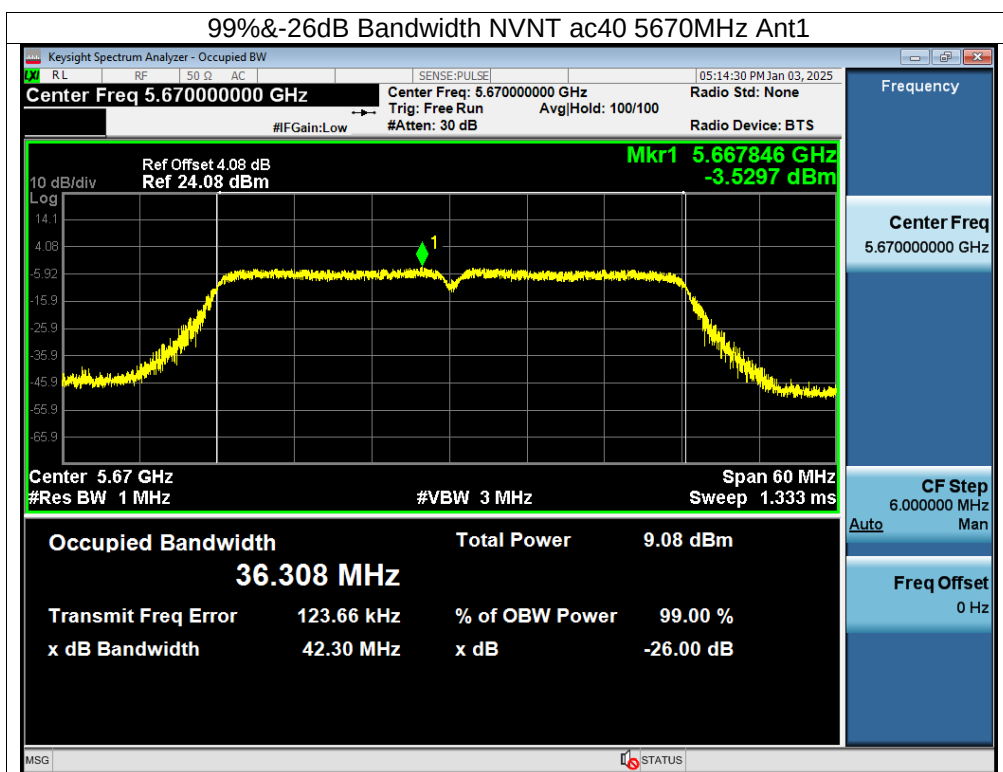












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.7V
Test Mode:	(5745-5825MHz)		

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	15.924	0.5	Pass
NVNT	a	5785	15.943	0.5	Pass
NVNT	a	5825	15.945	0.5	Pass
NVNT	n20	5745	16.611	0.5	Pass
NVNT	n20	5785	17.481	0.5	Pass
NVNT	n20	5825	17.224	0.5	Pass
NVNT	n40	5755	36.311	0.5	Pass
NVNT	n40	5795	36.303	0.5	Pass
NVNT	ac20	5745	16.778	0.5	Pass
NVNT	ac20	5785	17.292	0.5	Pass
NVNT	ac20	5825	17.562	0.5	Pass
NVNT	ac40	5755	35.98	0.5	Pass
NVNT	ac40	5795	35.895	0.5	Pass
NVNT	ac80	5775	75.232	0.5	Pass

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5745	17.354
NVNT	a	5785	17.537
NVNT	a	5825	17.097
NVNT	n20	5745	17.82
NVNT	n20	5785	18.013
NVNT	n20	5825	17.986
NVNT	n40	5755	36.293
NVNT	n40	5795	36.379
NVNT	ac20	5745	17.758
NVNT	ac20	5785	17.801
NVNT	ac20	5825	17.783
NVNT	ac40	5755	36.585
NVNT	ac40	5795	36.701
NVNT	ac80	5775	75.719

