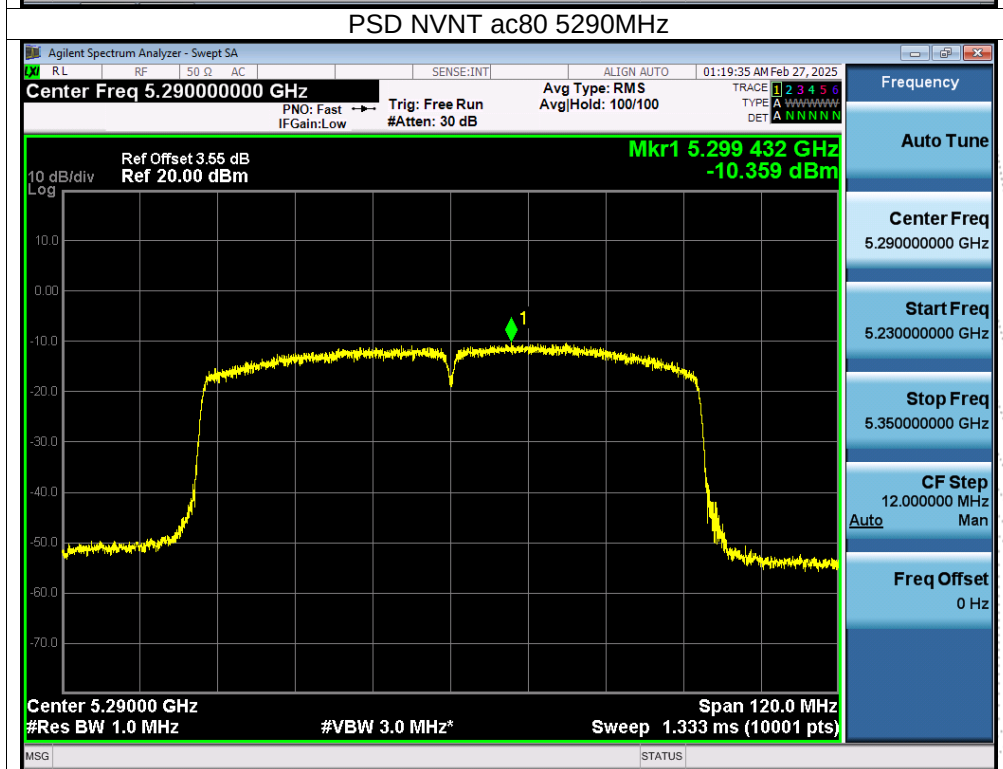
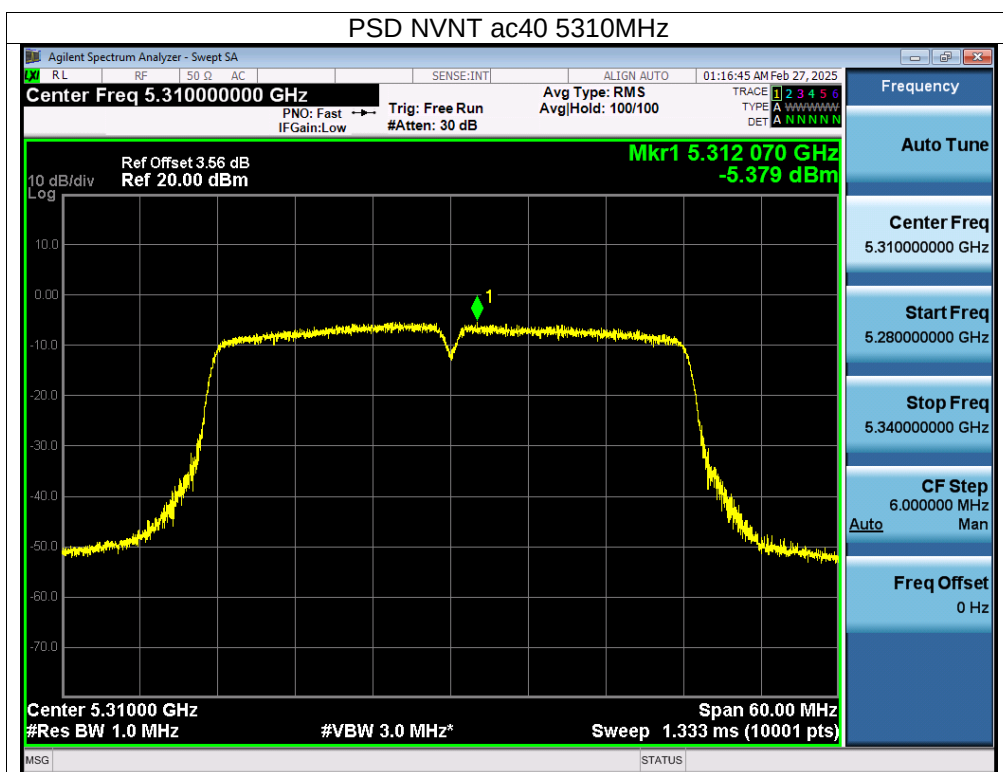




Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	(5500-5700MHz)		

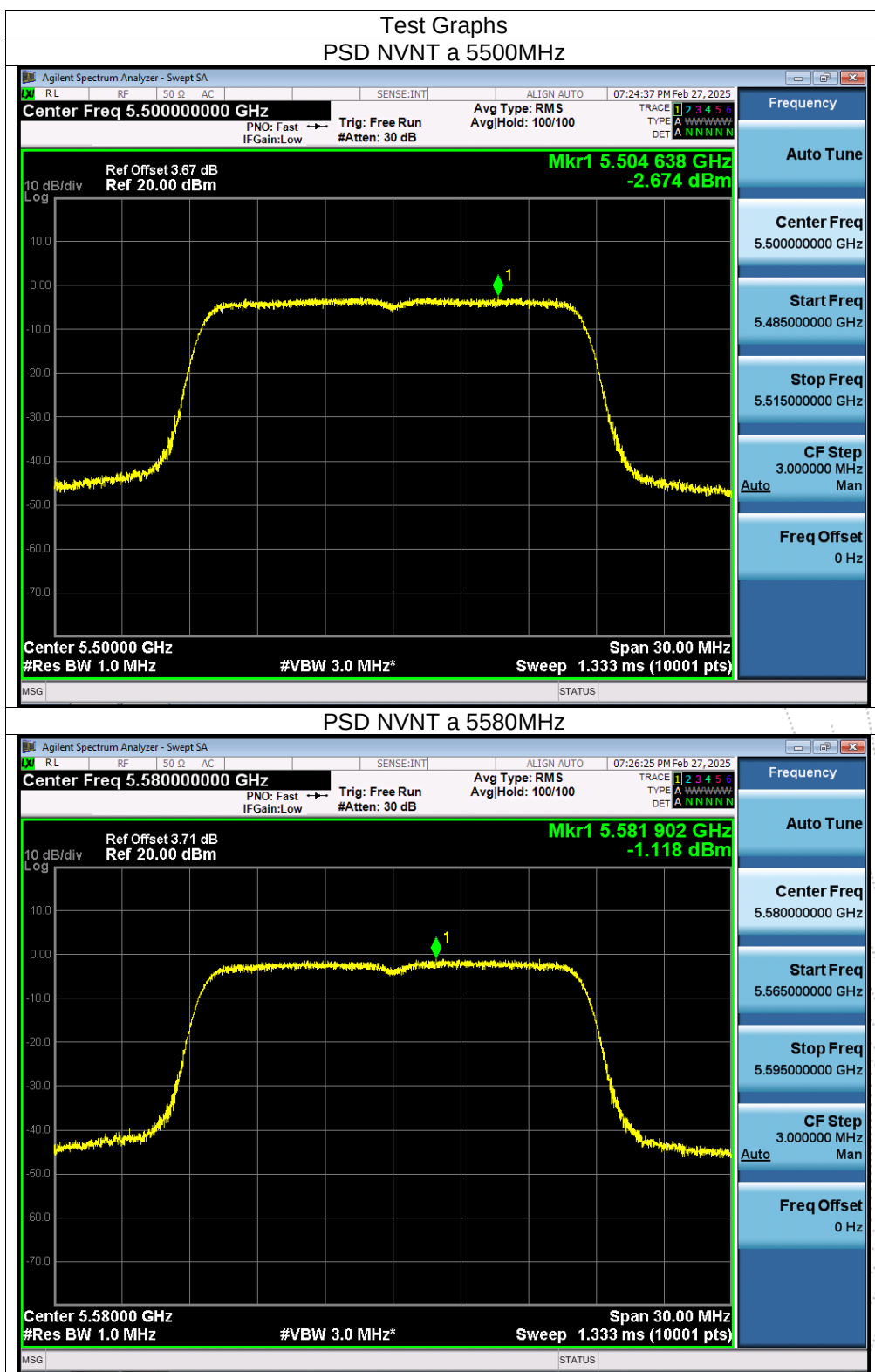
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant A	Ant B	Total		
NVNT	a	5500	-2.67	-3.79	/	11	Pass
NVNT	a	5580	-1.12	-3.23	/	11	Pass
NVNT	a	5700	-0.77	-3.11	/	11	Pass
NVNT	n20	5500	-3.61	-5.22	-1.33	10.01	Pass
NVNT	n20	5580	-2.73	-4.61	-0.56	10.01	Pass
NVNT	n20	5700	-2.58	-5.09	-0.65	10.01	Pass
NVNT	n40	5510	-7.05	-9.1	-4.94	10.01	Pass
NVNT	n40	5550	-6.79	-7.6	-4.17	10.01	Pass
NVNT	n40	5670	-5.14	-8.06	-3.35	10.01	Pass
NVNT	ac20	5500	-3.64	-5.64	-1.52	10.01	Pass
NVNT	ac20	5580	-2.81	-4.69	-0.64	10.01	Pass
NVNT	ac20	5700	-2.36	-5.04	-0.49	10.01	Pass
NVNT	ac40	5510	-7.19	-8.9	-4.95	10.01	Pass
NVNT	ac40	5550	-6.07	-8.2	-4.00	10.01	Pass
NVNT	ac40	5670	-5.27	-8.01	-3.42	10.01	Pass
NVNT	ac80	5530	-11.32	-12.71	-8.95	10.01	Pass

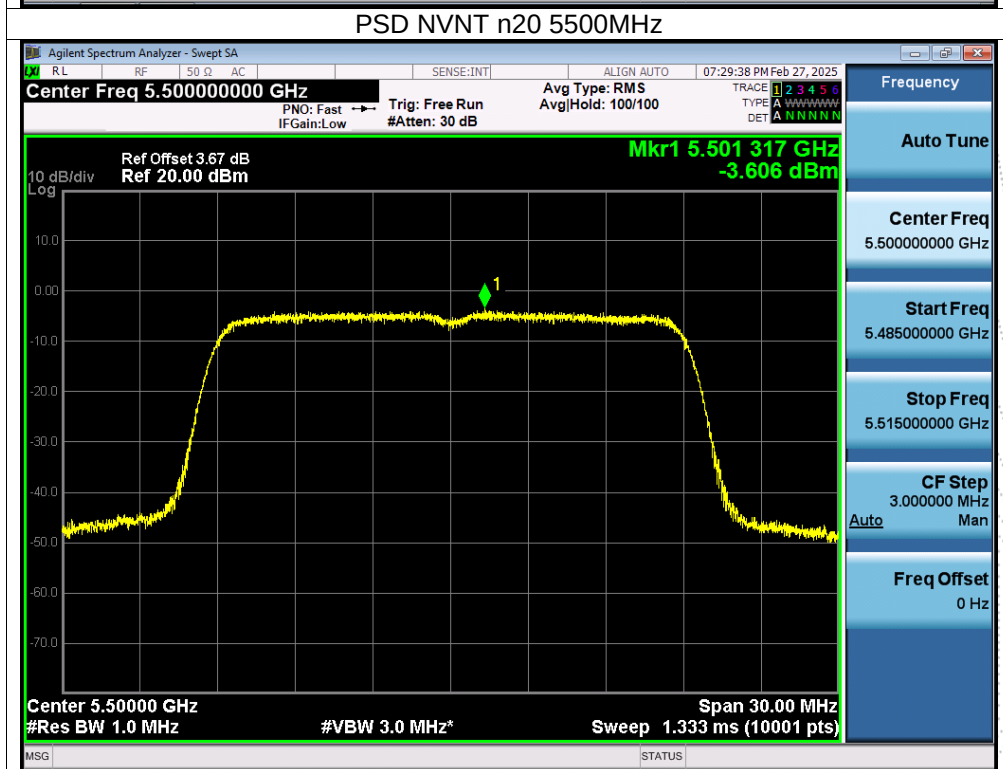
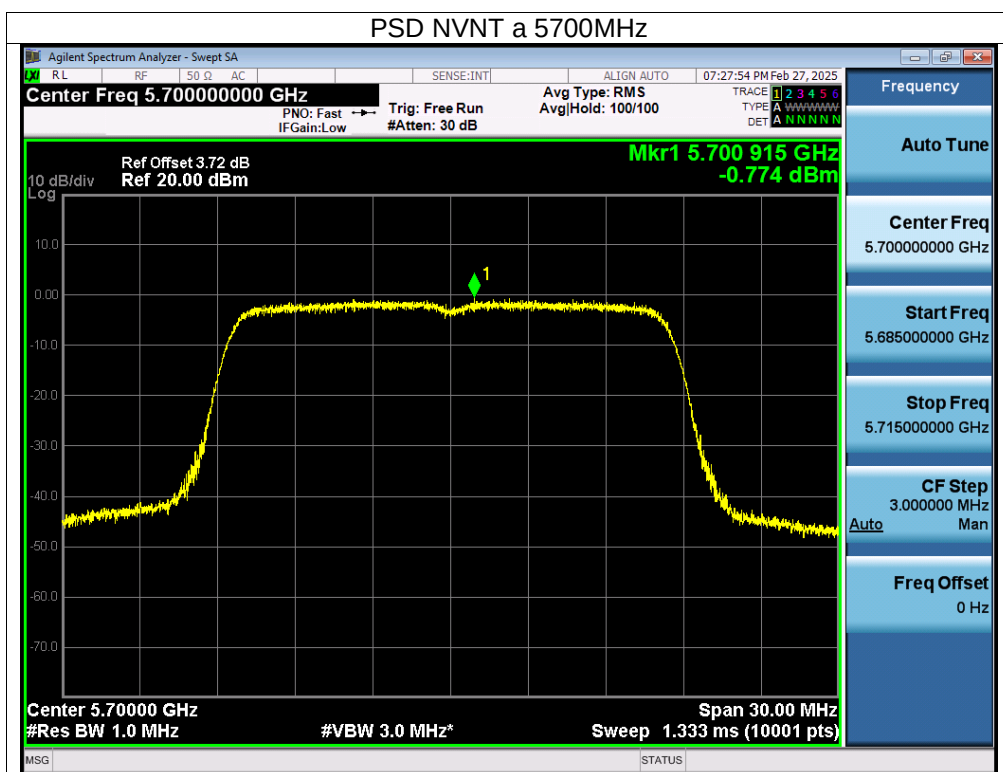
Note:

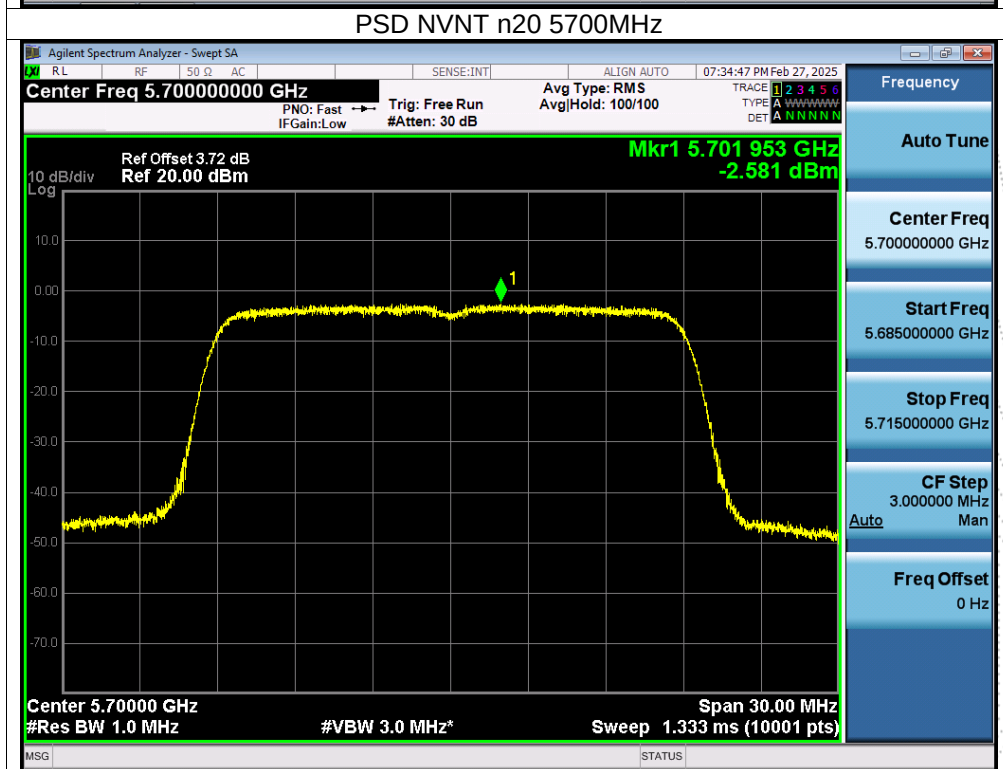
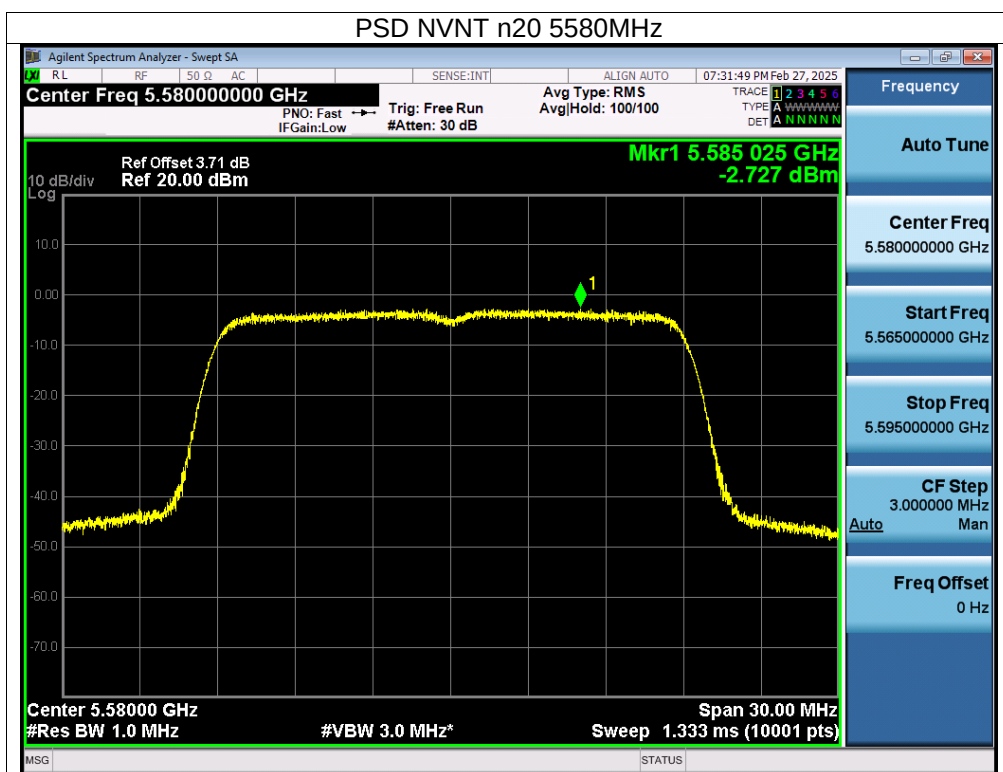
Antenna A gain: 3.98 dBi, Antenna B gain: 3.98 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
=6.99 dBi>6dBi

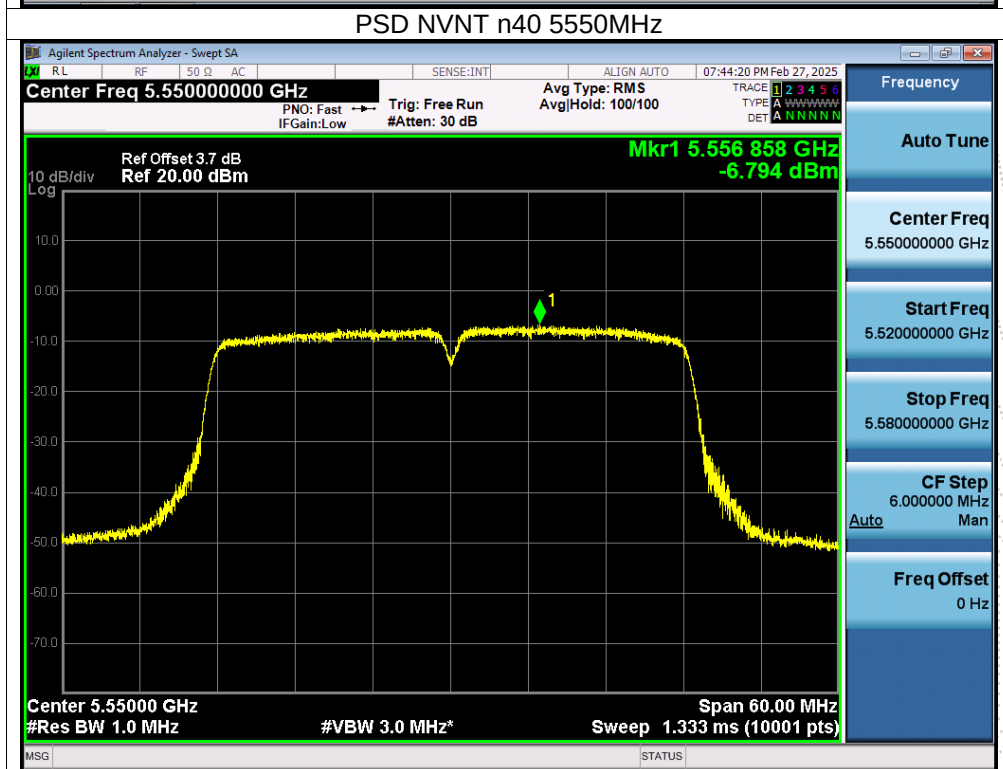
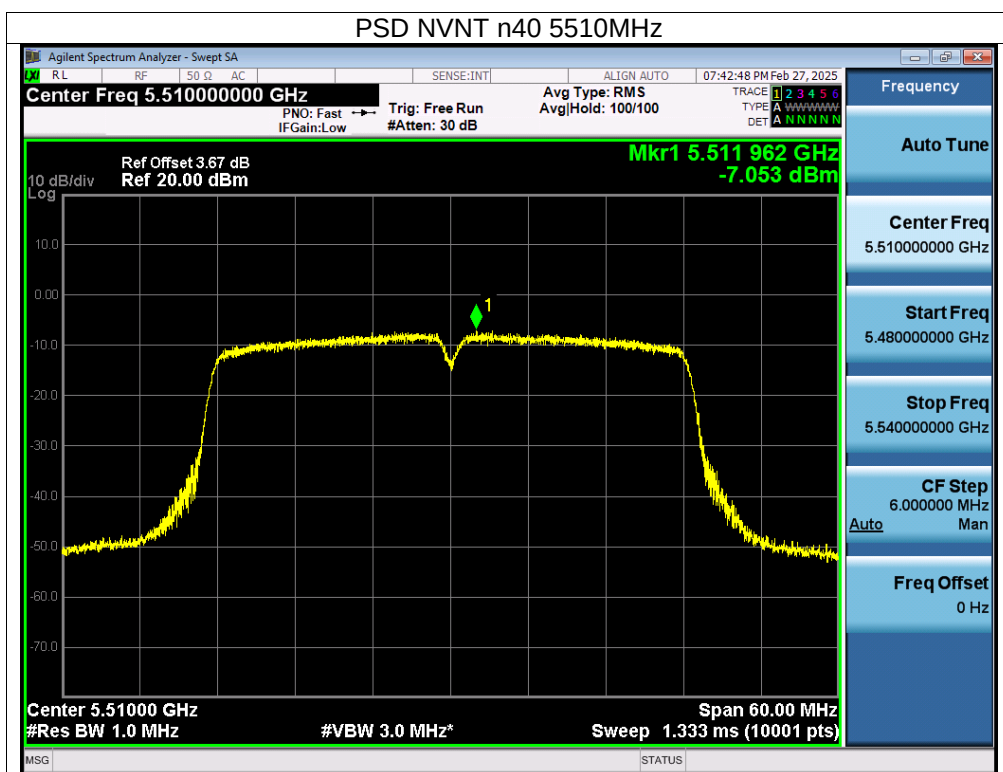
Limit=11-(6.99-6)=10.01 dBi

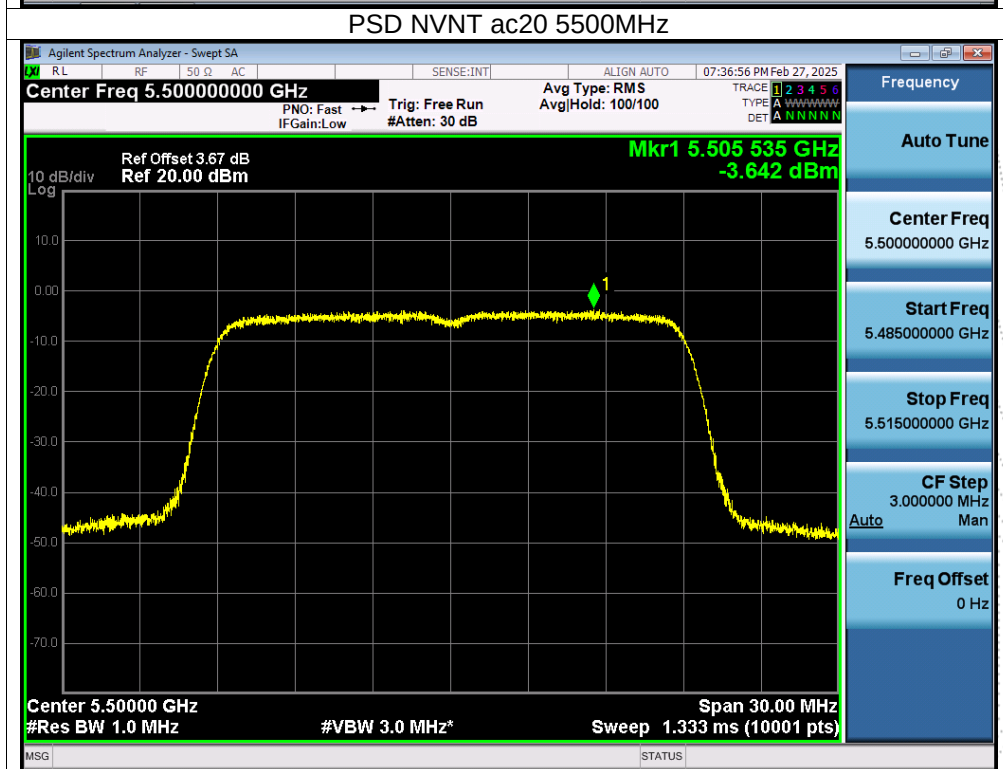
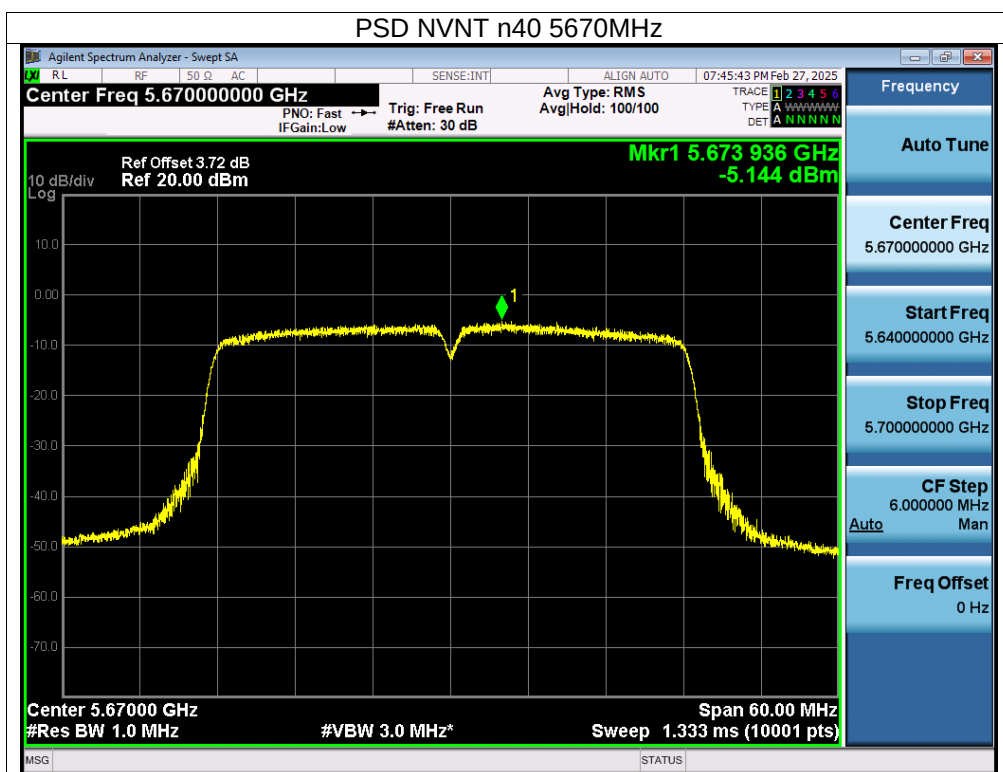
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot. Note:

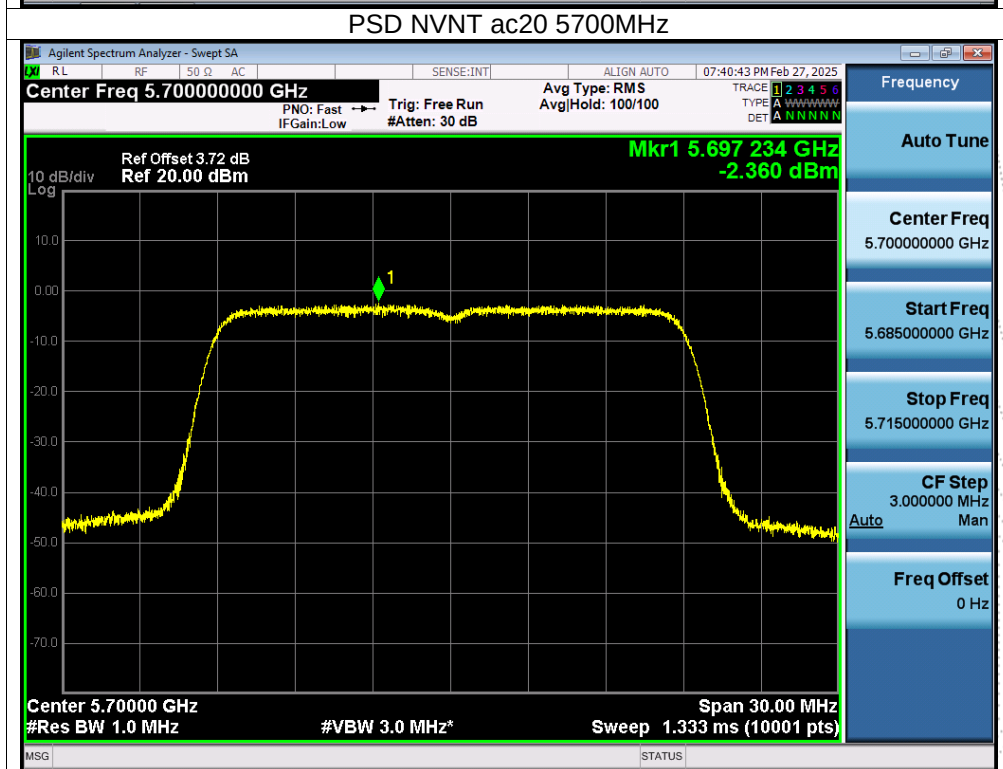
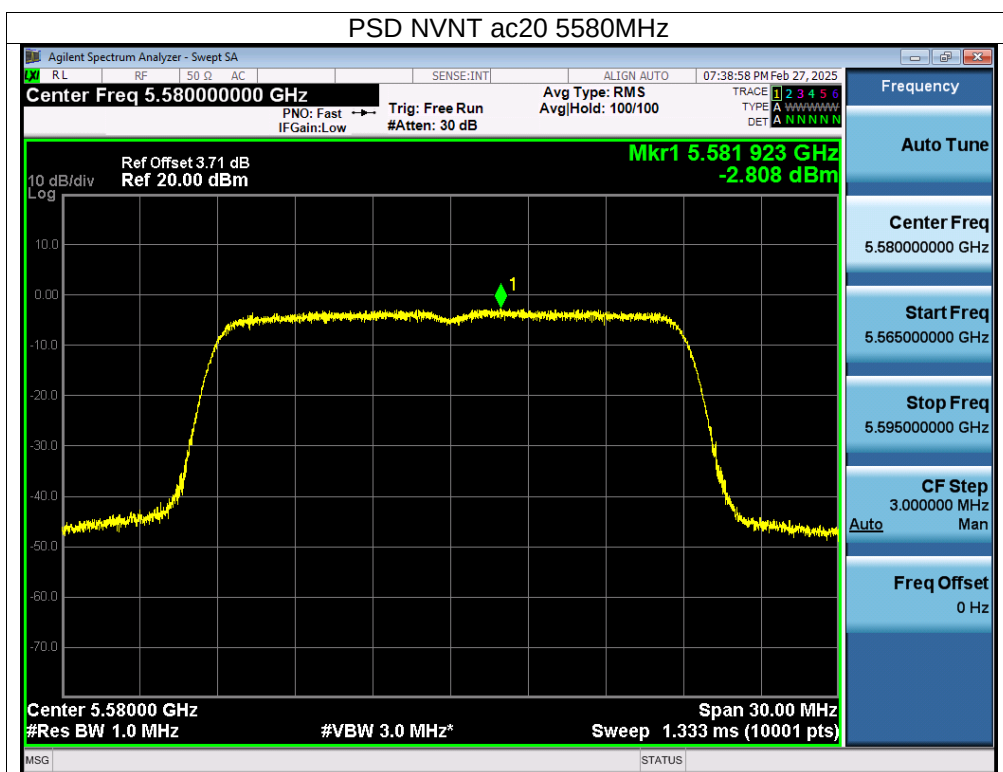


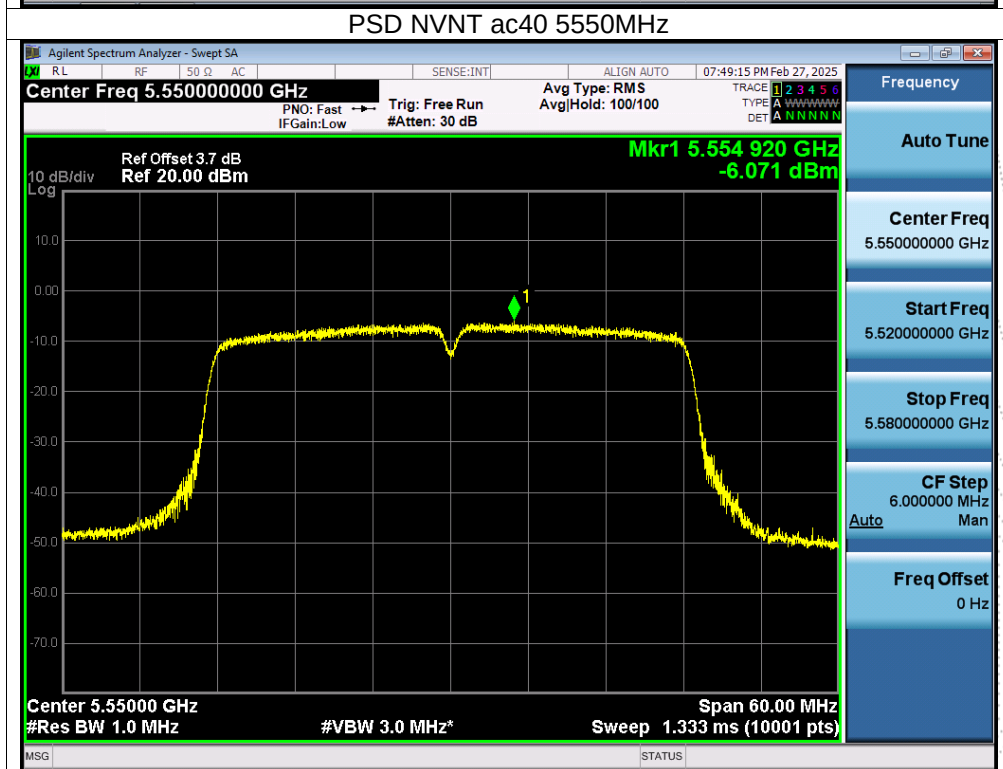
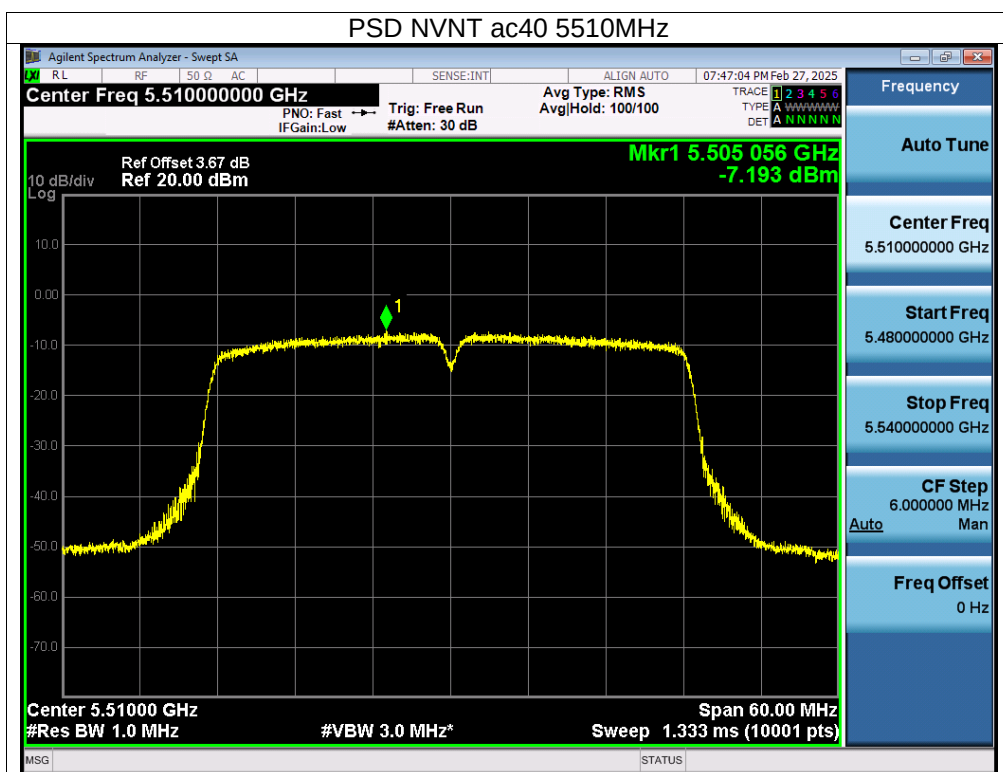


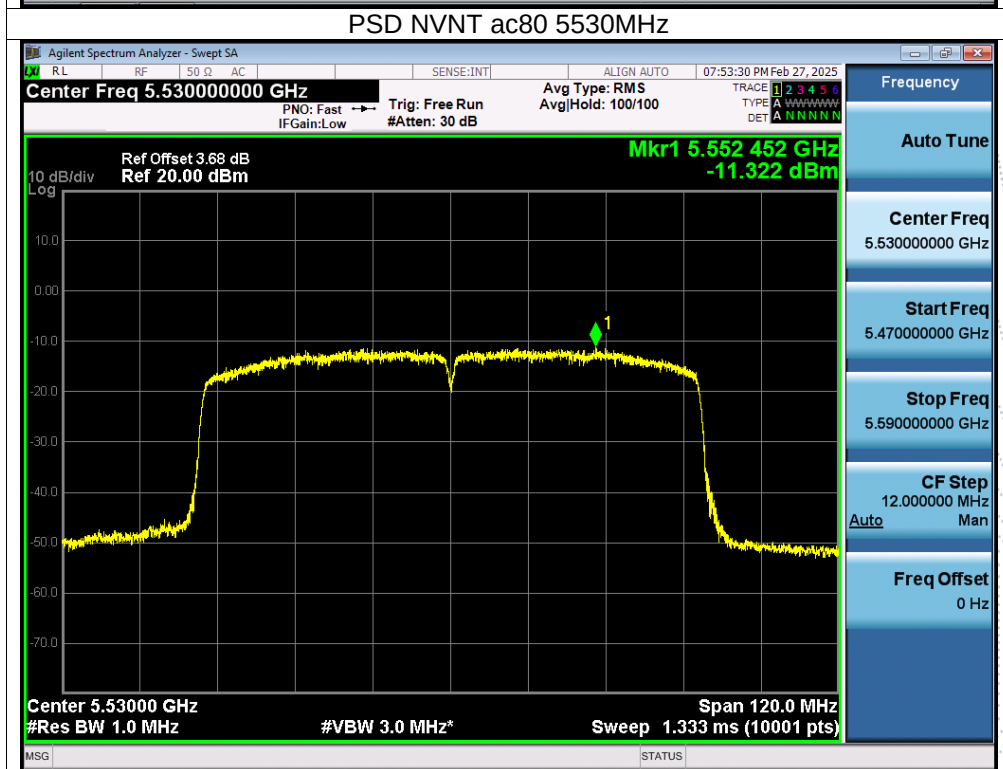
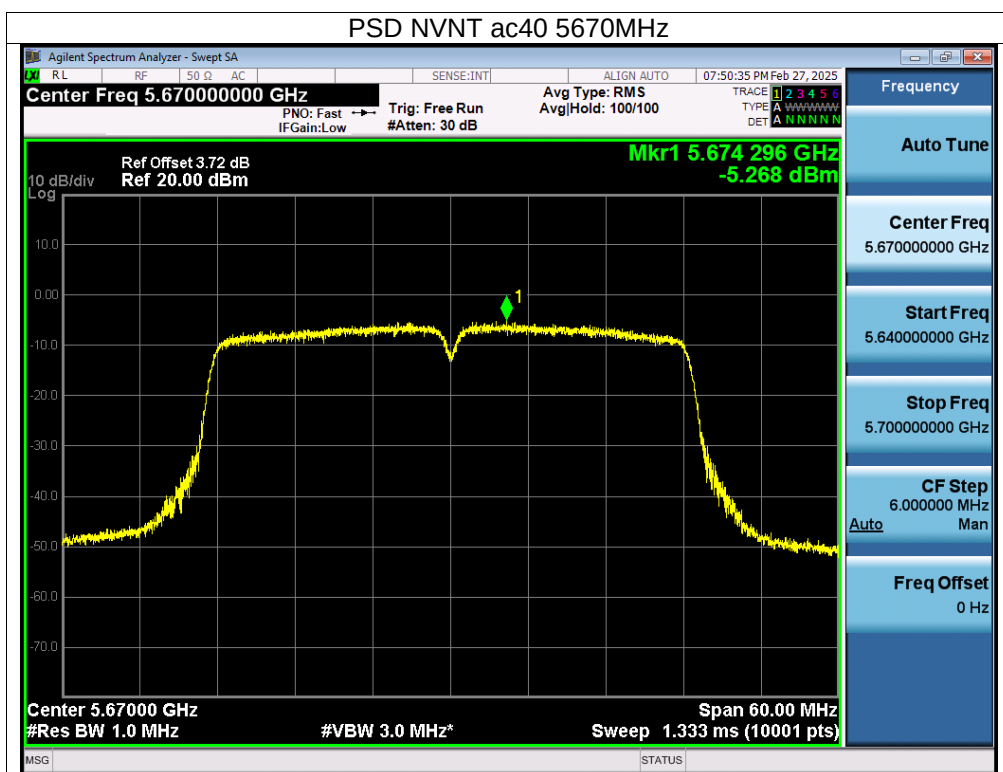












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	(5745-5825MHz)		

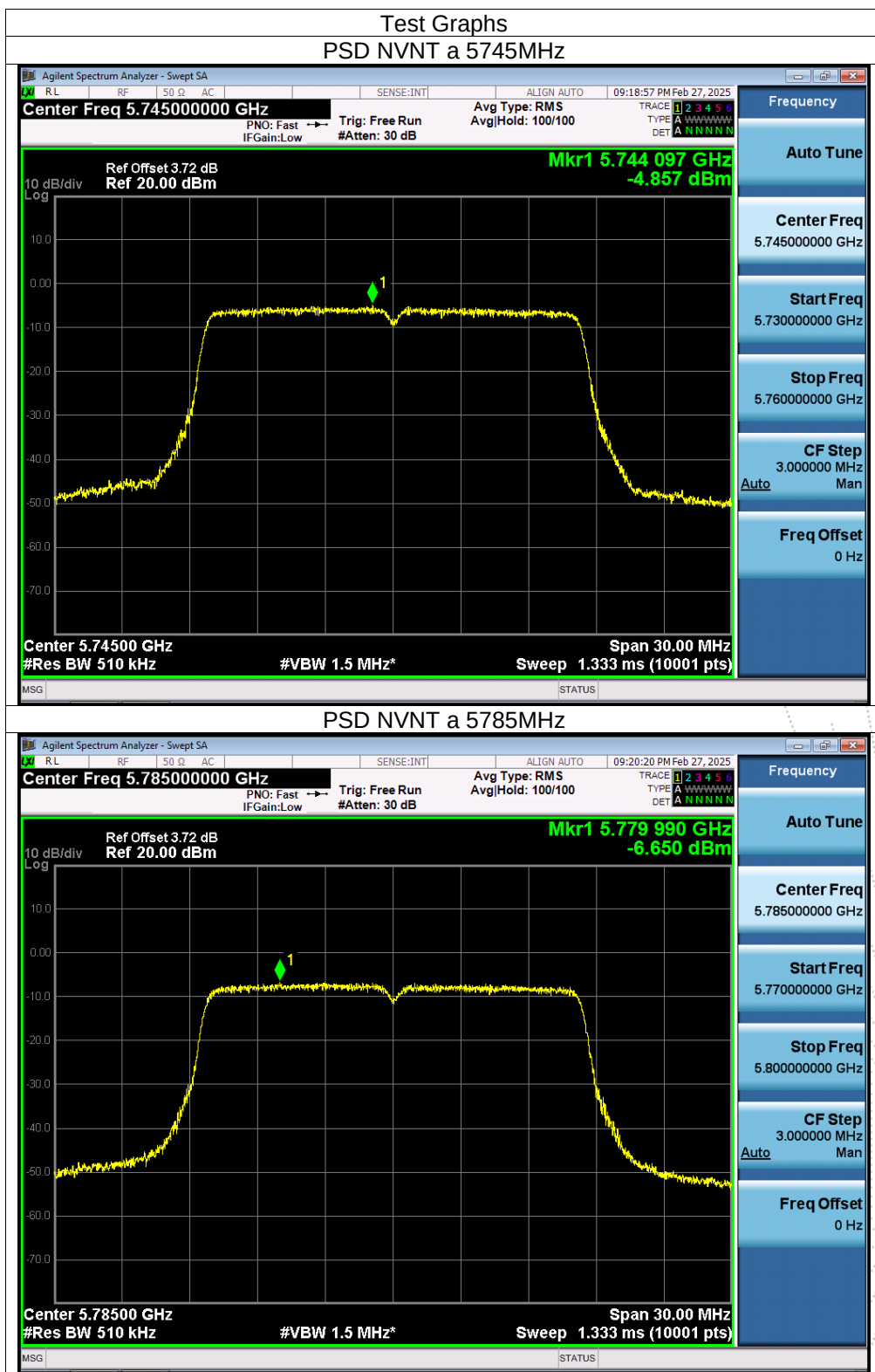
Condi- tion	Mode	Fre- quency (MHz)	Conducted PSD (dBm/510KHz)		Conducted PSD (dBm/500KHz)			Limit (dBm/ 500KHz)	Verdict
			Ant A	Ant B	Ant A	Ant B	Total		
NVNT	a	5745	-4.86	-8.3	-4.946	-8.386	/	30	Pass
NVNT	a	5785	-6.65	-8.39	-6.736	-8.476	/	30	Pass
NVNT	a	5825	-7.67	-8.82	-7.756	-8.906	/	30	Pass
NVNT	n20	5745	-6.88	-9.38	-6.966	-9.466	0.80	29.01	Pass
NVNT	n20	5785	-8.24	-9.56	-8.326	-9.646	0.60	29.01	Pass
NVNT	n20	5825	-9.32	-10.29	-9.406	-10.376	0.47	29.01	Pass
NVNT	n40	5755	-10.23	-12.09	-10.316	-12.176	0.39	29.01	Pass
NVNT	n40	5795	-11.63	-12.92	-11.716	-13.006	0.28	29.01	Pass
NVNT	ac20	5745	-6.91	-9.31	-6.996	-9.396	0.79	29.01	Pass
NVNT	ac20	5785	-8.05	-9.7	-8.136	-9.786	0.62	29.01	Pass
NVNT	ac20	5825	-8.9	-9.89	-8.986	-9.976	0.52	29.01	Pass
NVNT	ac40	5755	-9.95	-12.1	-10.036	-12.186	0.41	29.01	Pass
NVNT	ac40	5795	-11.64	-13.18	-11.726	-13.266	0.28	29.01	Pass
NVNT	ac80	5775	-15.83	-17.34	-15.916	-17.426	0.11	29.01	Pass
Note: Correction Factor = 10log(500KHz/RBW in measurement) =-0.086									

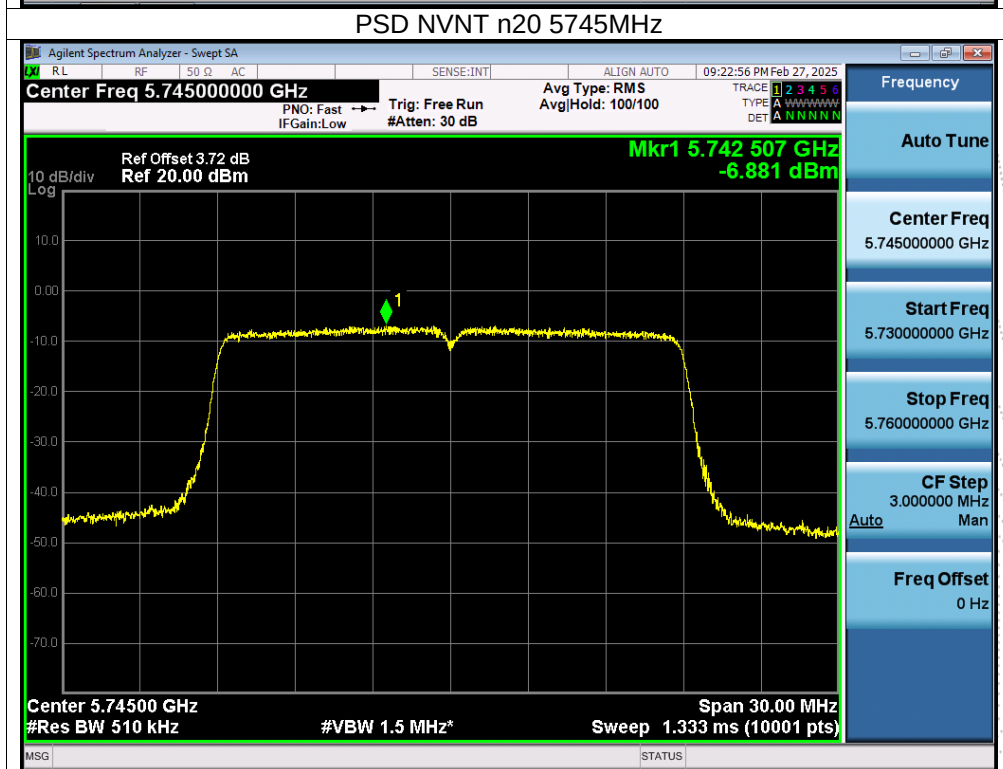
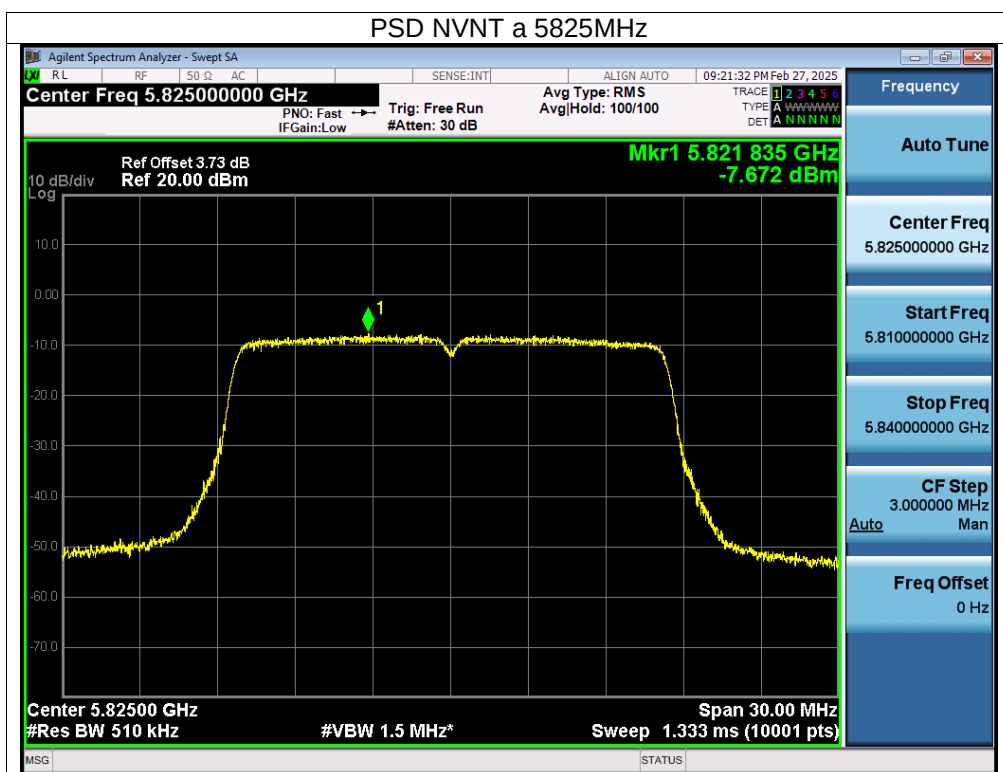
Note:

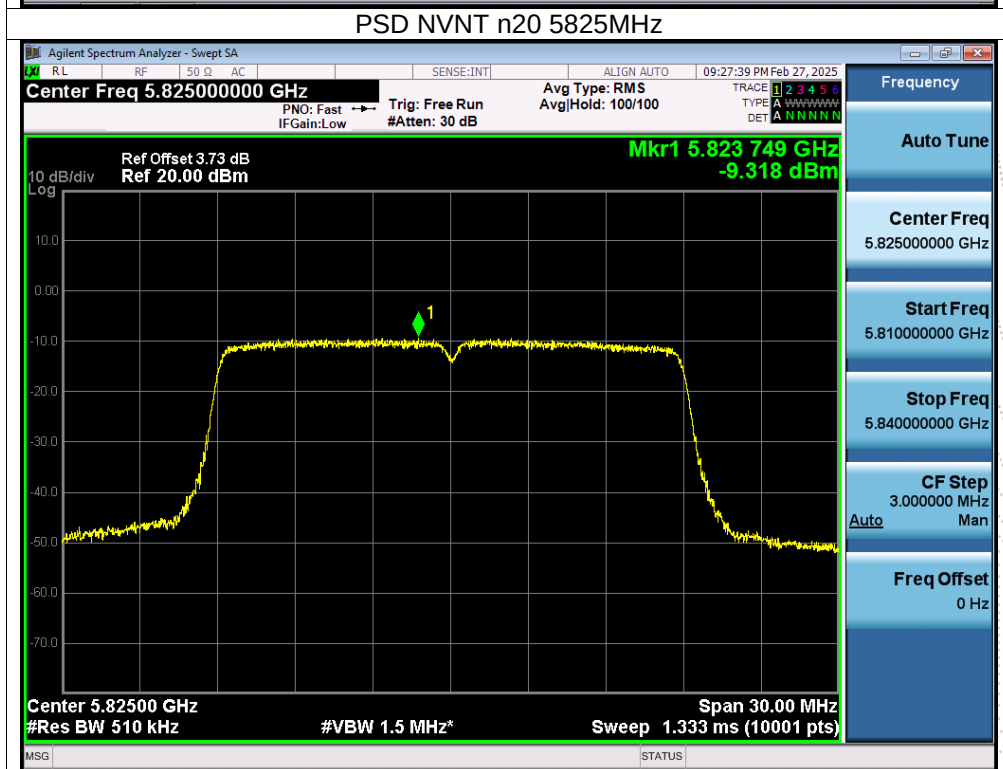
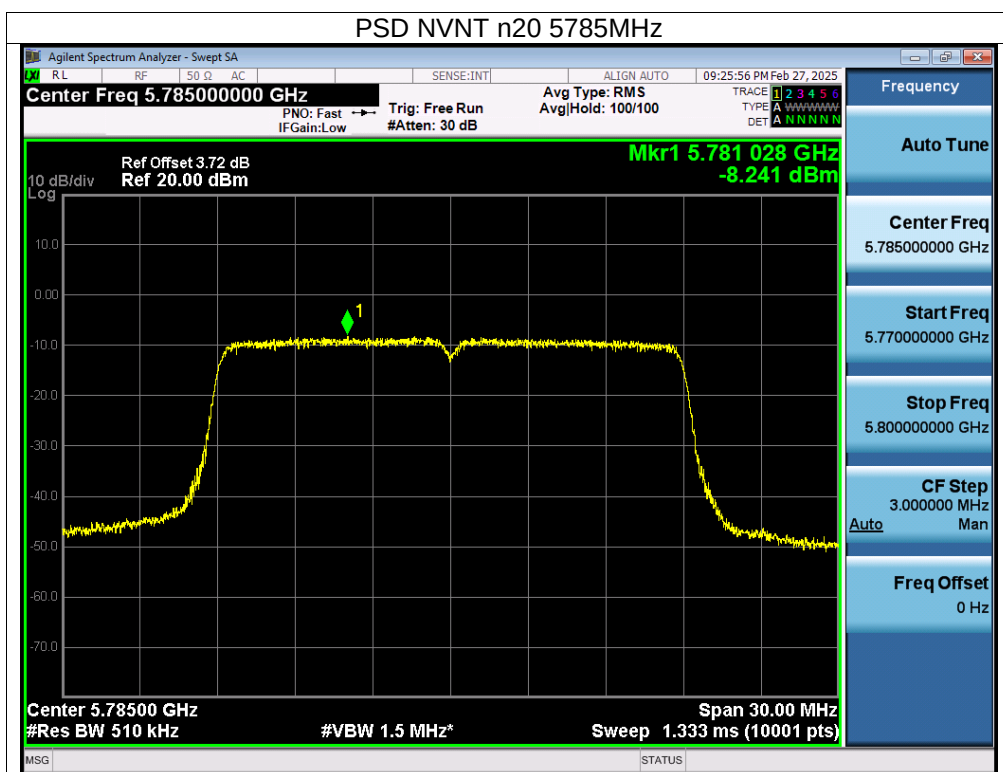
Antenna A gain: 3.98 dBi, Antenna B gain: 3.98 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
=6.99 dBi>6dbi

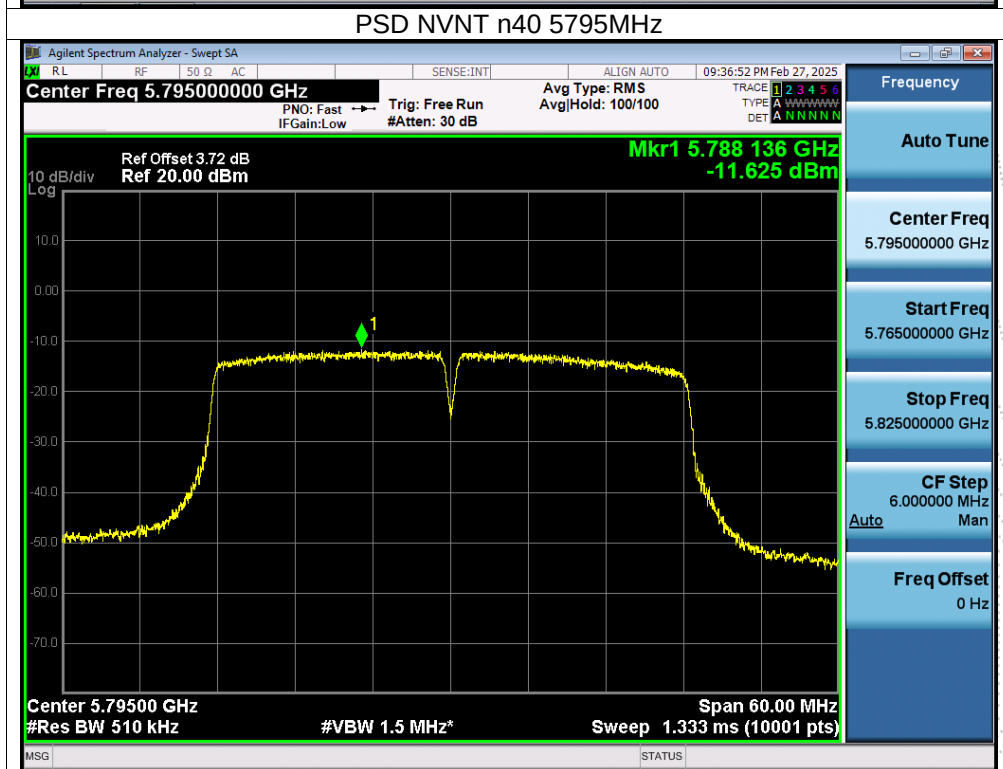
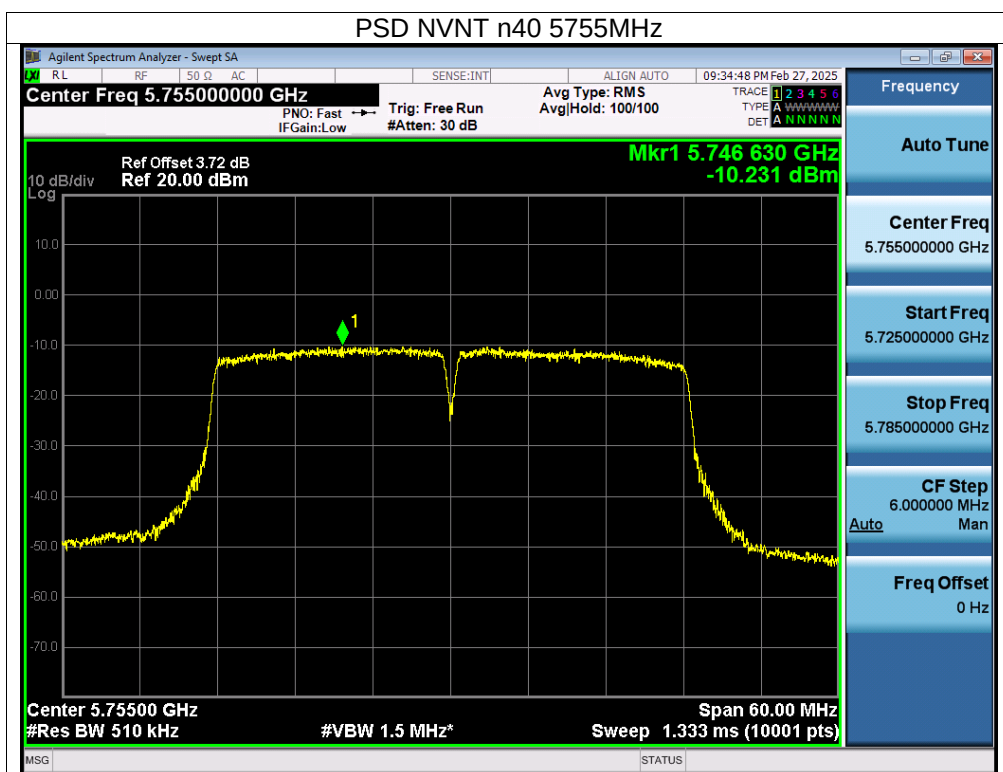
EIRP Limit=30-(6.99-6)=29.01 dBi

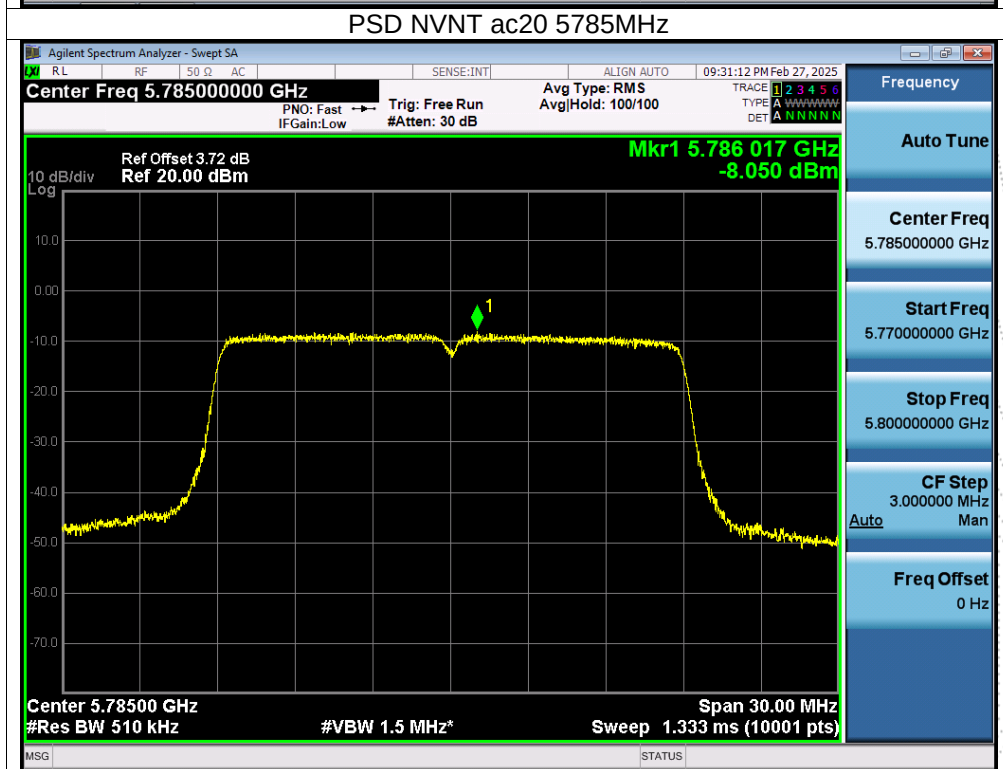
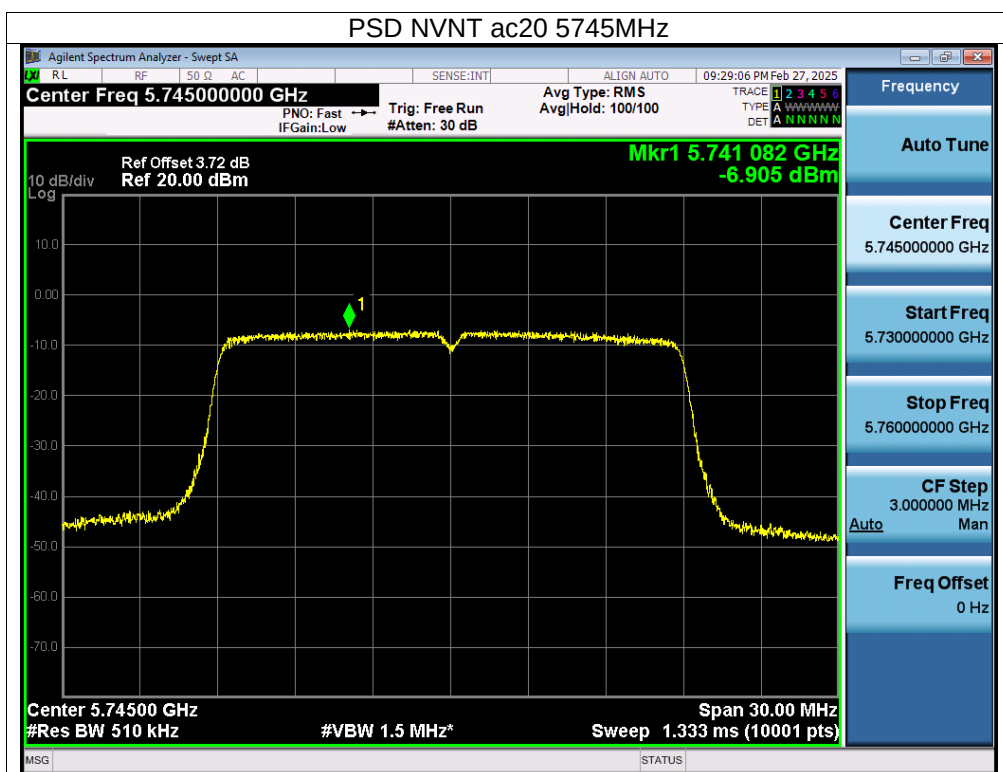
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

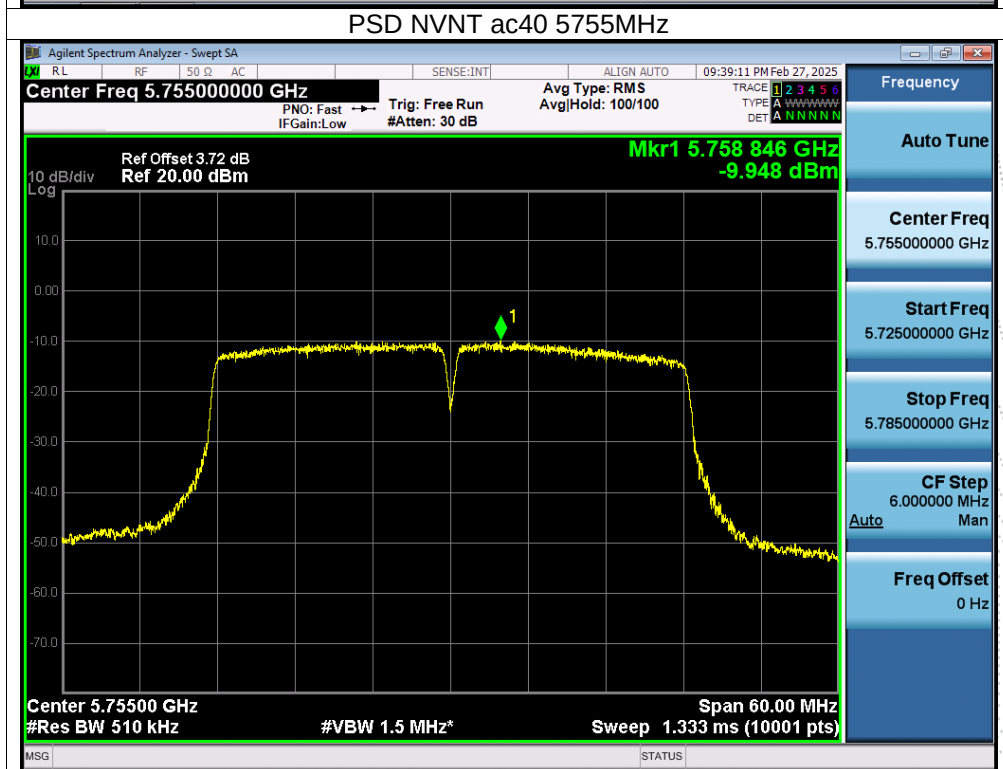
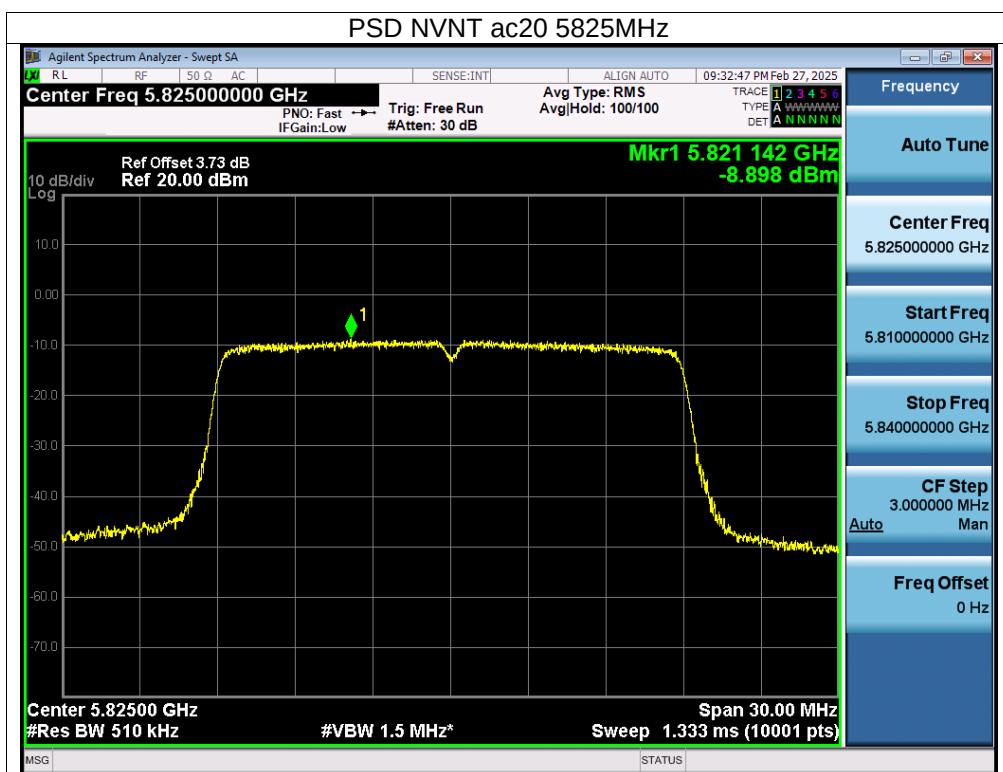


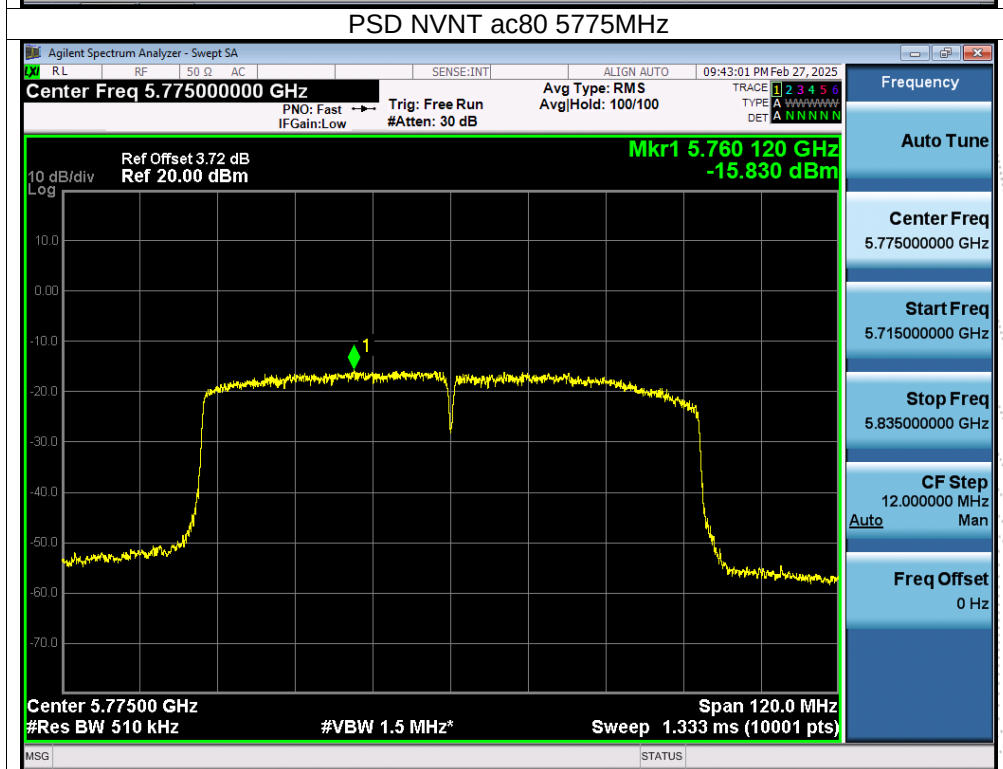
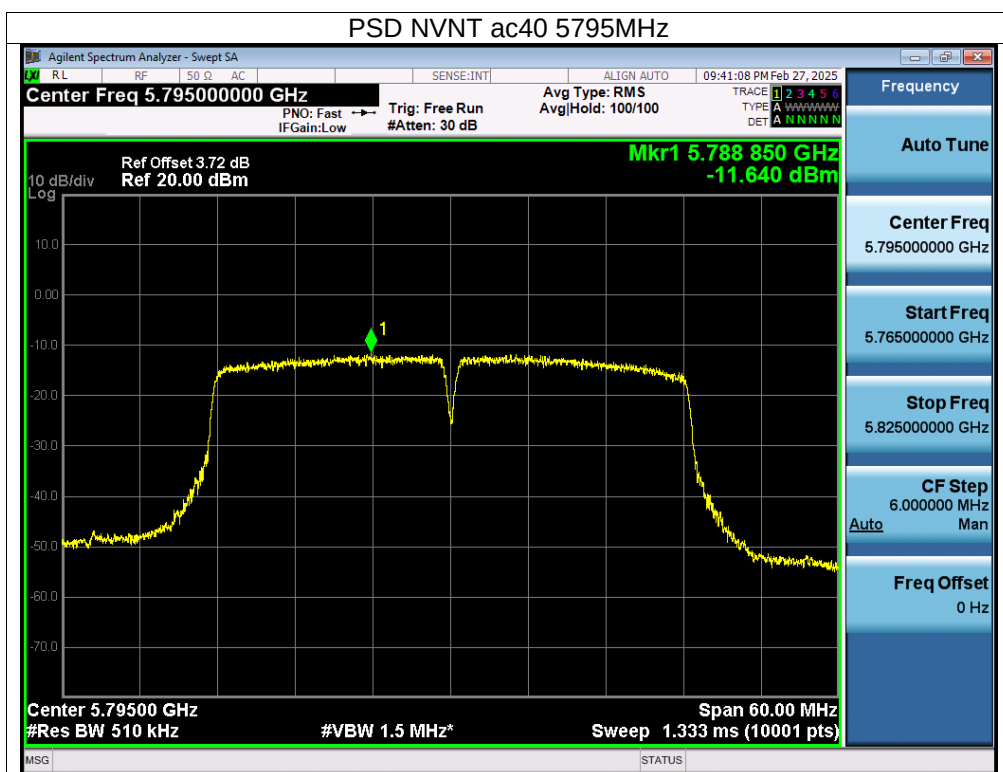






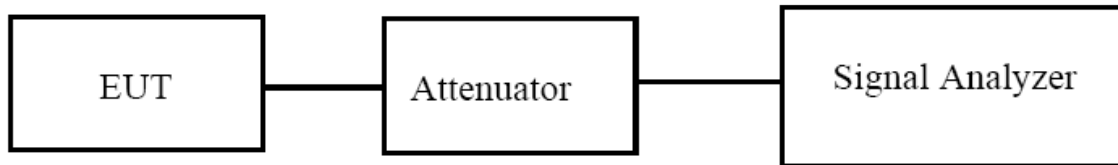






9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

(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 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

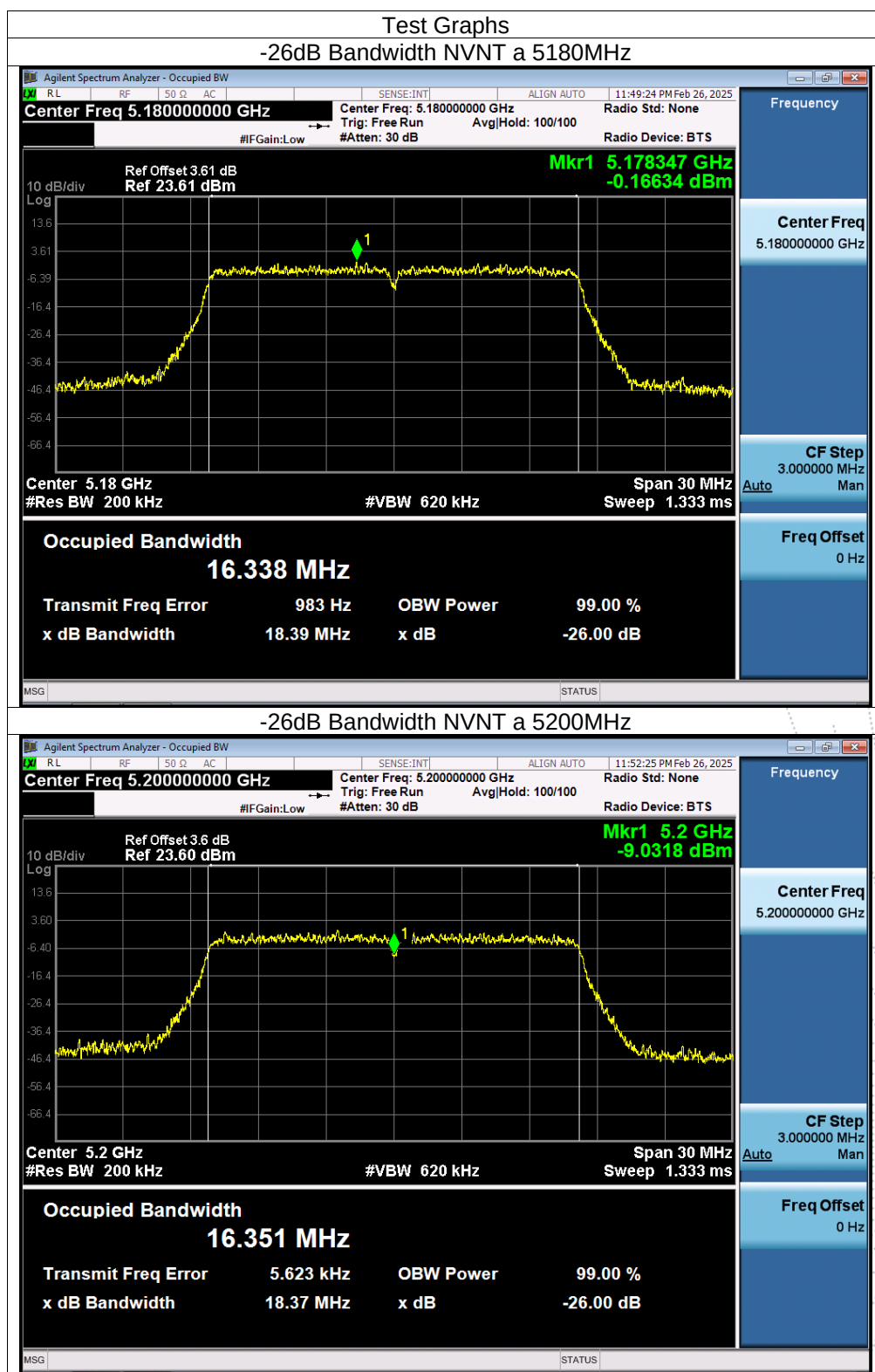
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

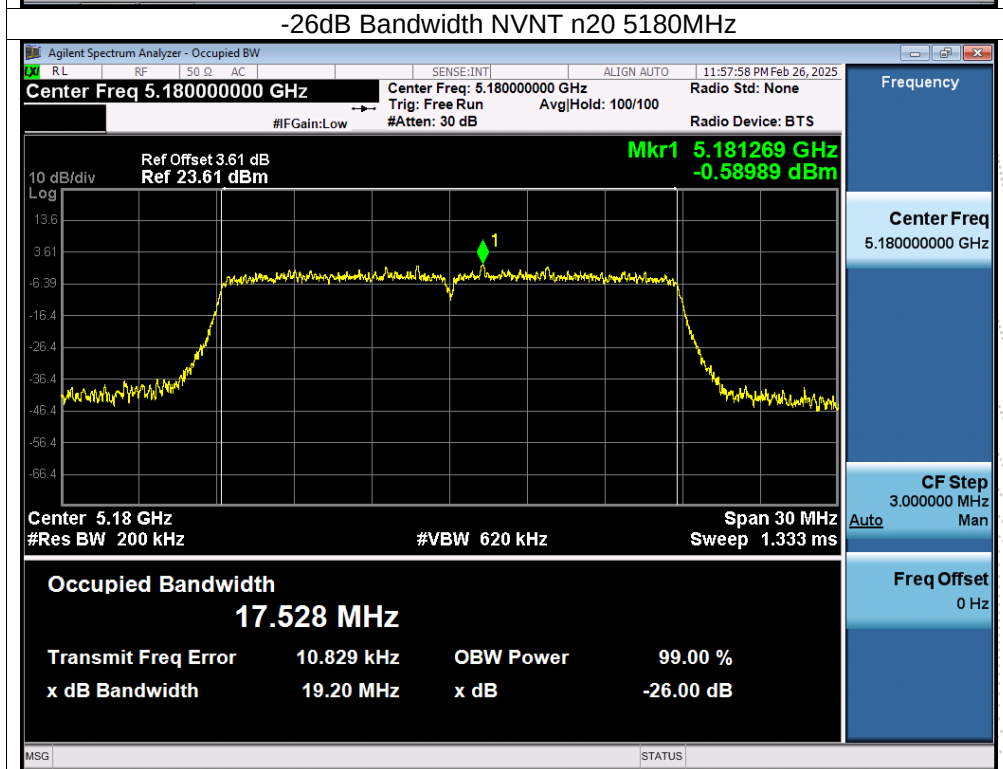
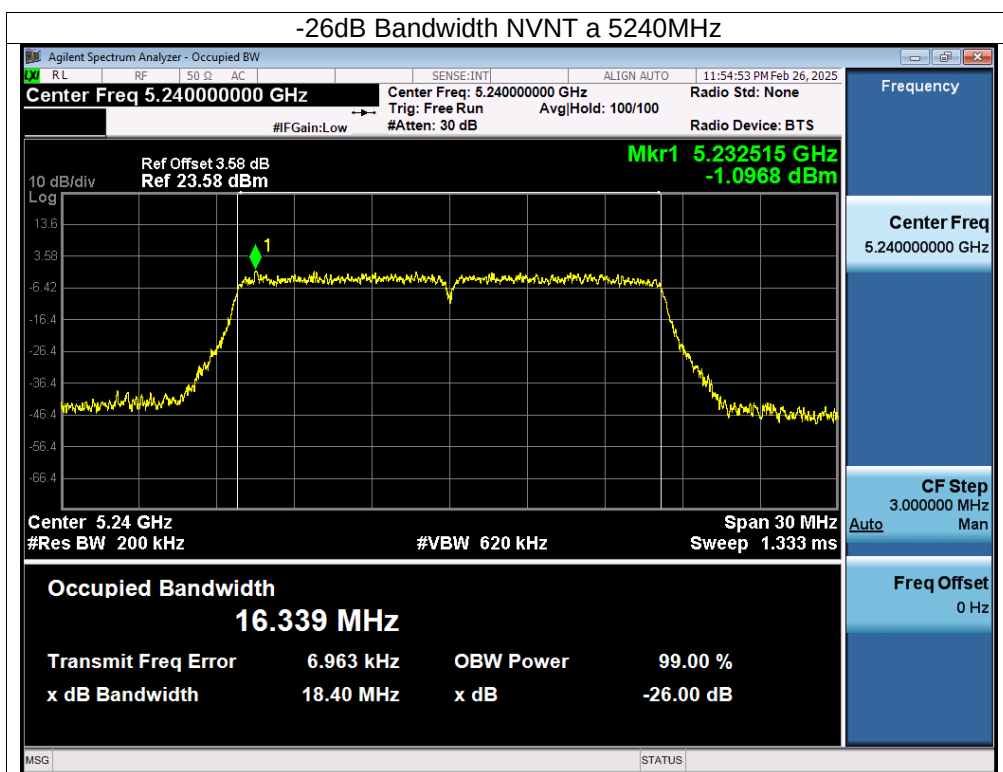
9.5 Test Result

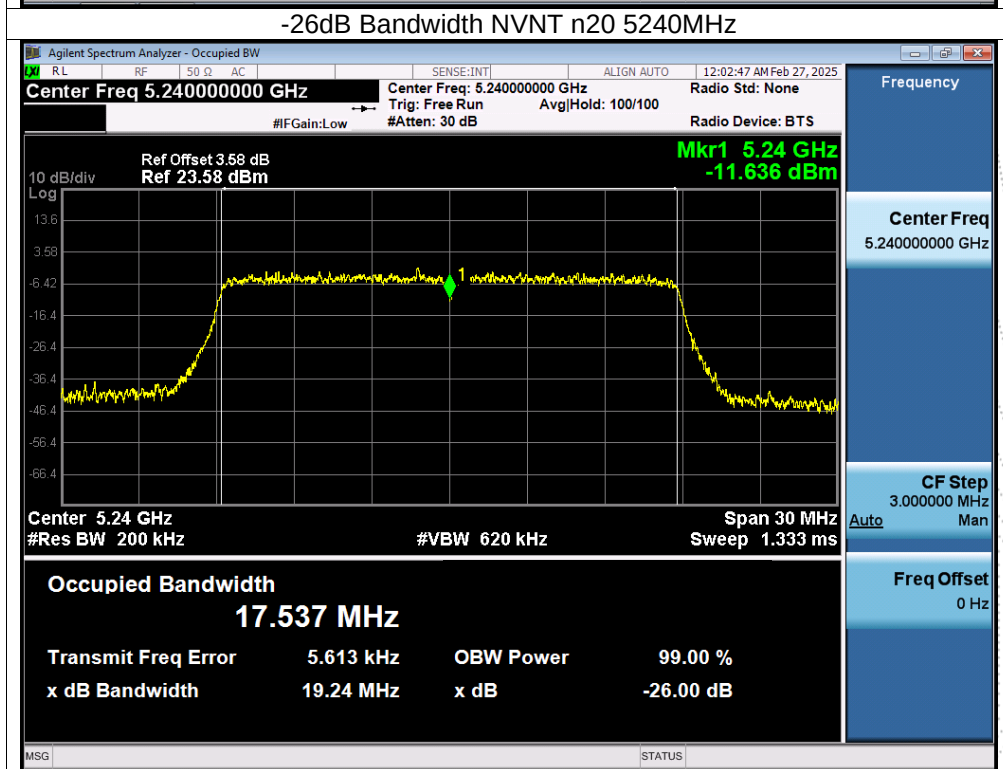
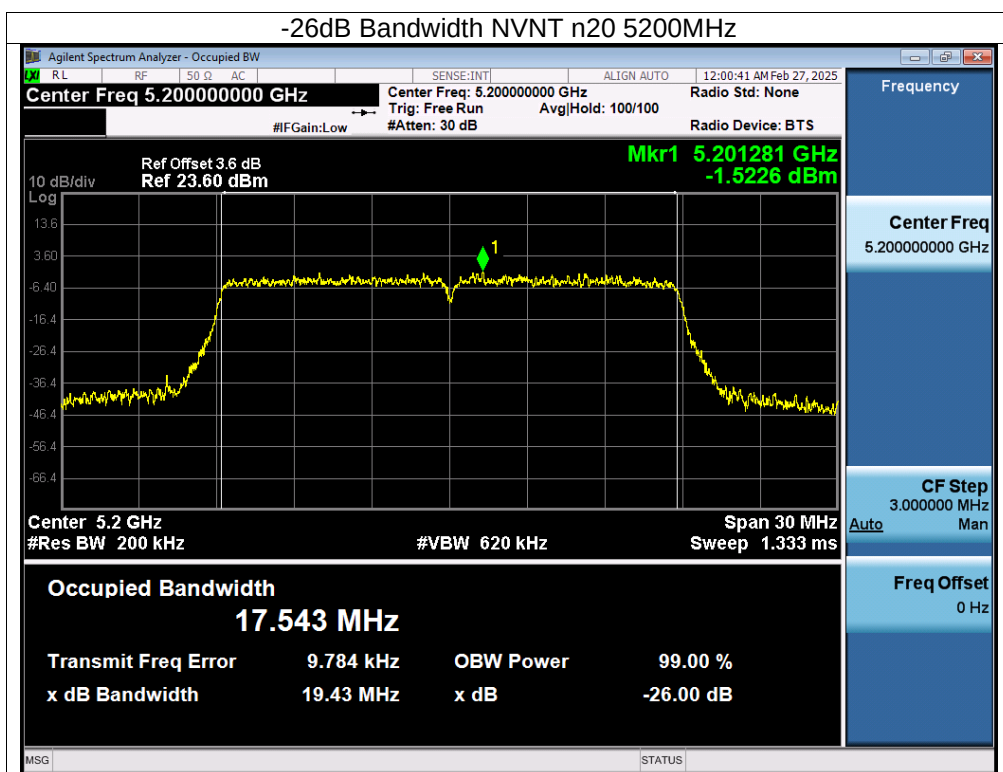
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	(5180-5240MHz)		

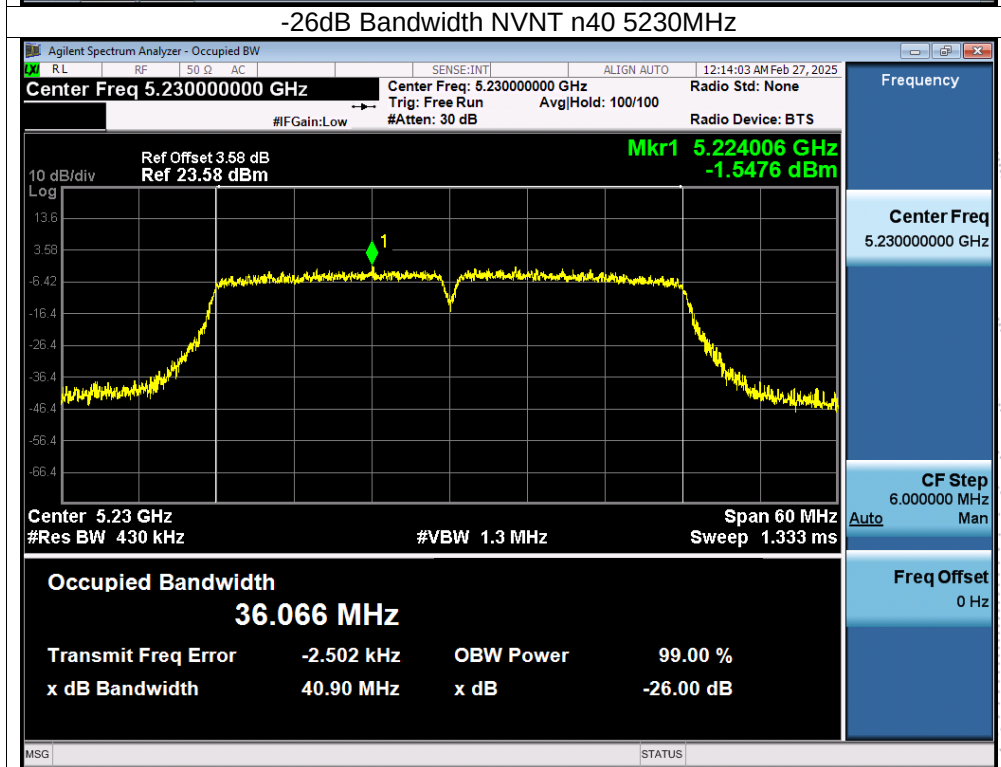
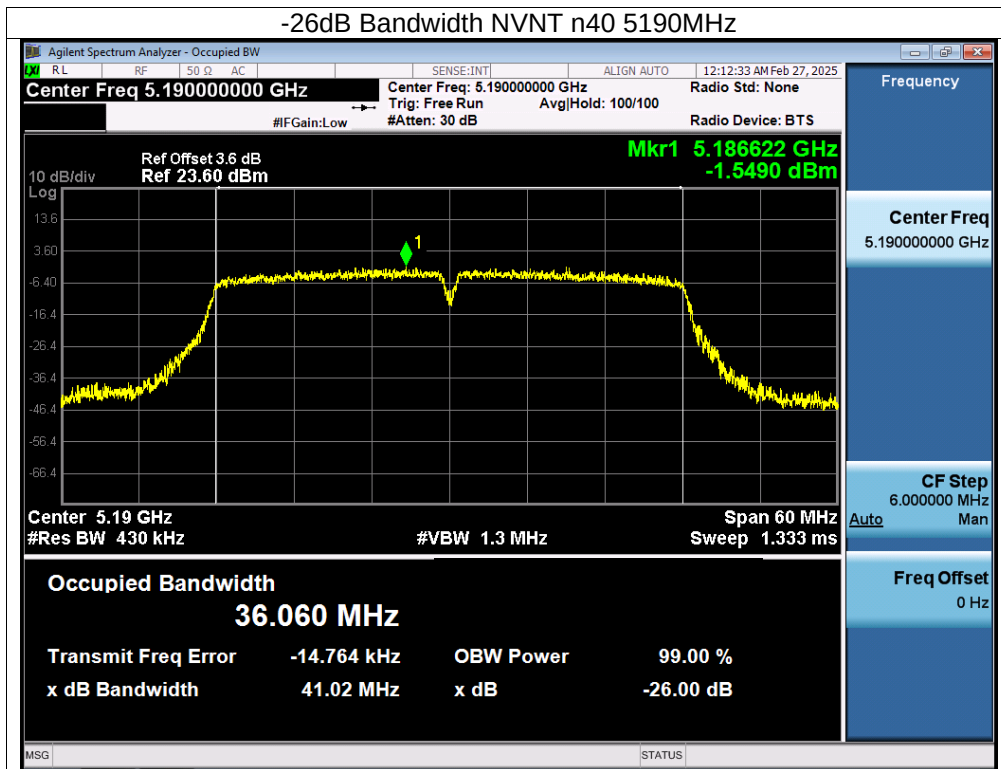
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)		99% OBW (MHz)		Verdict
			Ant A	Ant B	Ant A	Ant B	
NVNT	a	5180	18.358	18.391	16.334	16.341	Pass
NVNT	a	5200	18.392	18.368	16.362	16.348	Pass
NVNT	a	5240	18.415	18.404	16.346	16.332	Pass
NVNT	n20	5180	19.196	19.197	17.523	17.532	Pass
NVNT	n20	5200	19.293	19.428	17.542	17.543	Pass
NVNT	n20	5240	19.251	19.241	17.516	17.537	Pass
NVNT	n40	5190	41.175	41.016	36.015	36.023	Pass
NVNT	n40	5230	41.018	40.899	36.09	36.027	Pass
NVNT	ac20	5180	19.217	19.153	17.525	17.514	Pass
NVNT	ac20	5200	19.202	19.281	17.537	17.526	Pass
NVNT	ac20	5240	19.189	19.254	17.547	17.517	Pass
NVNT	ac40	5190	40.846	40.873	36.042	36.042	Pass
NVNT	ac40	5230	40.848	41.013	36.057	36.032	Pass
NVNT	ac80	5210	81.057	81.092	74.751	74.8	Pass

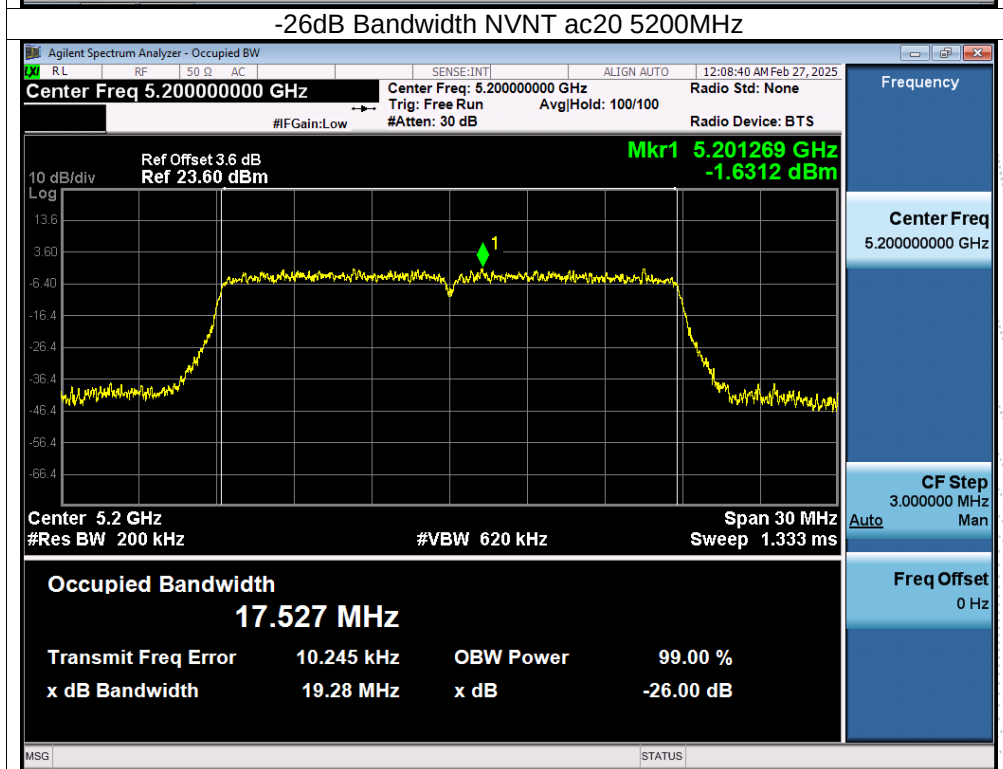
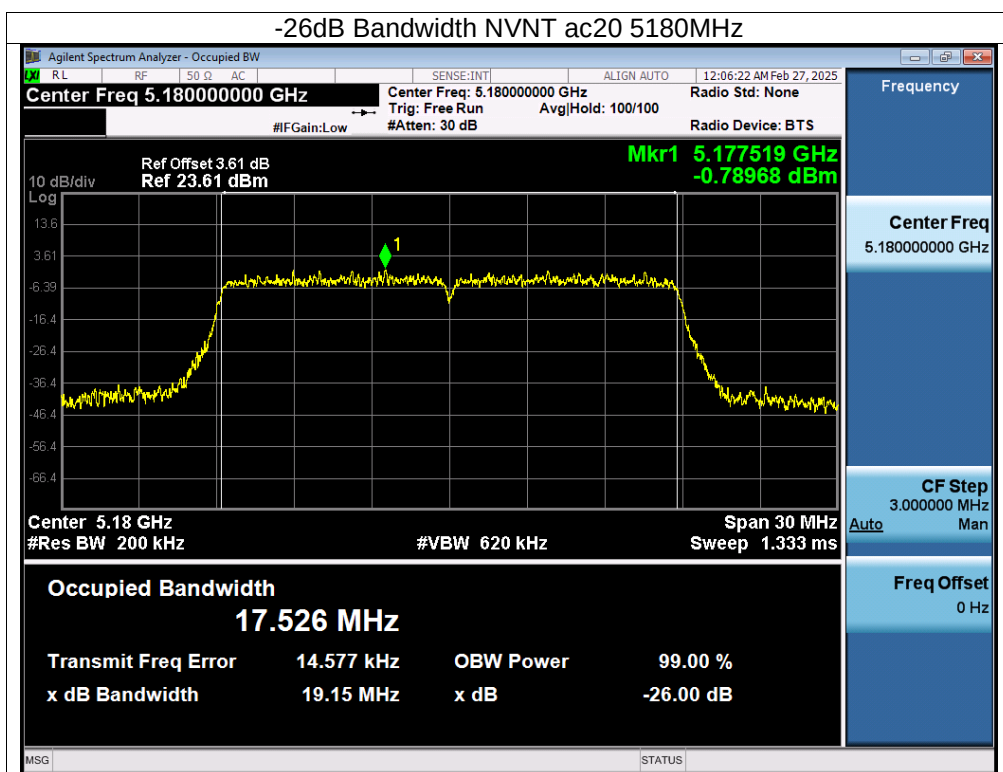
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

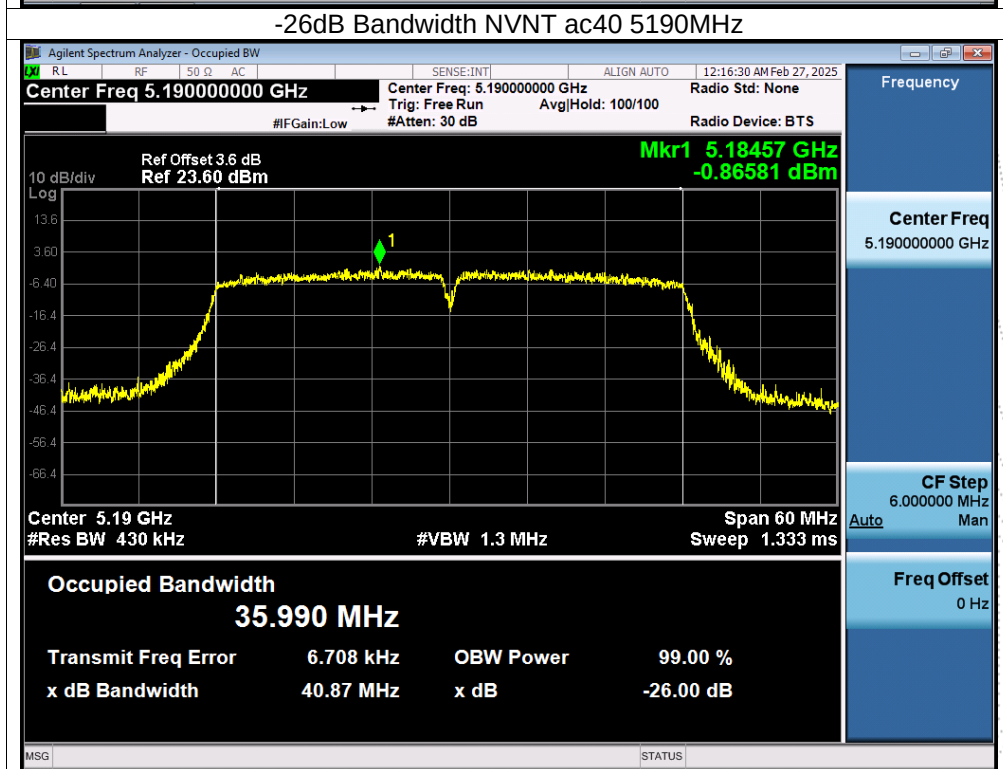
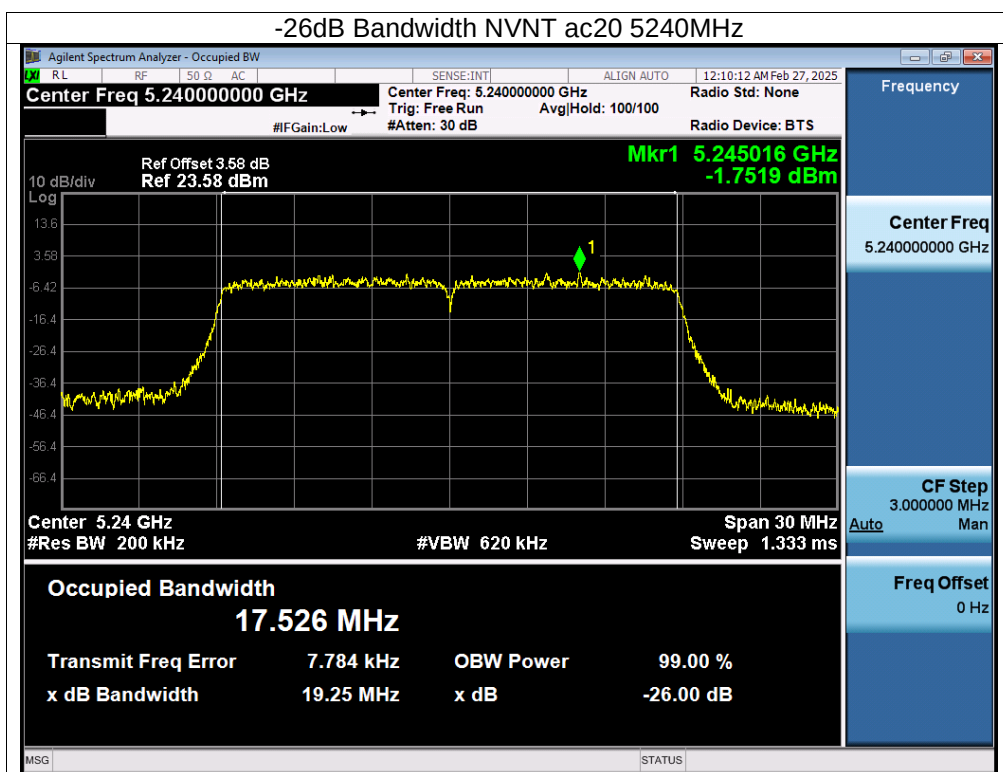


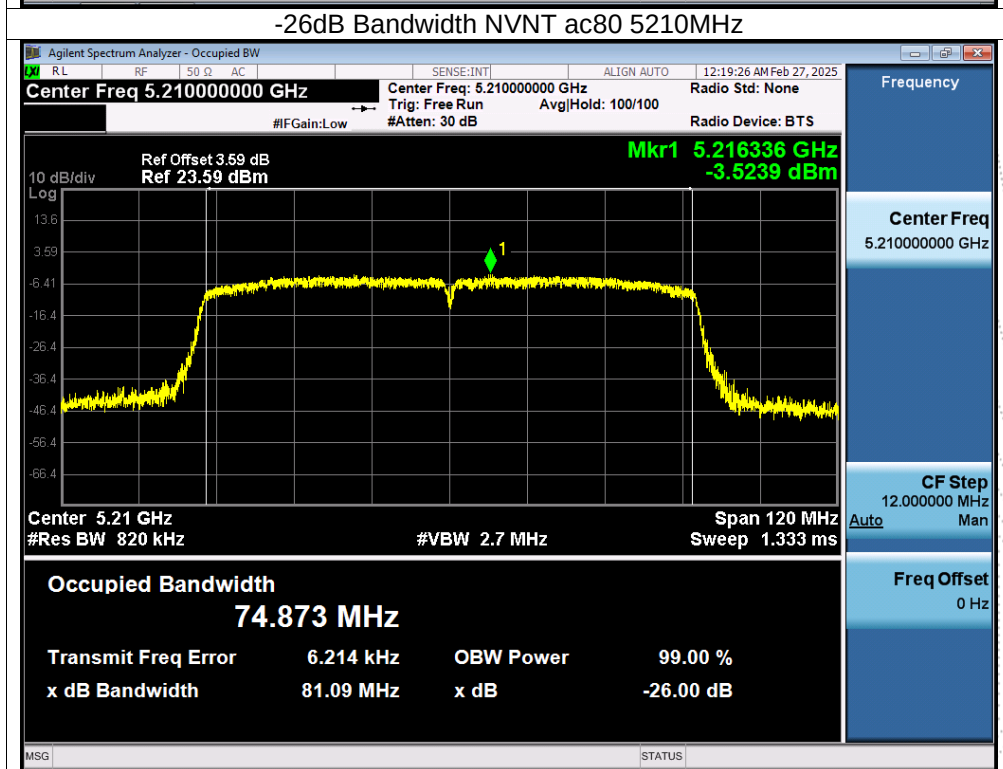
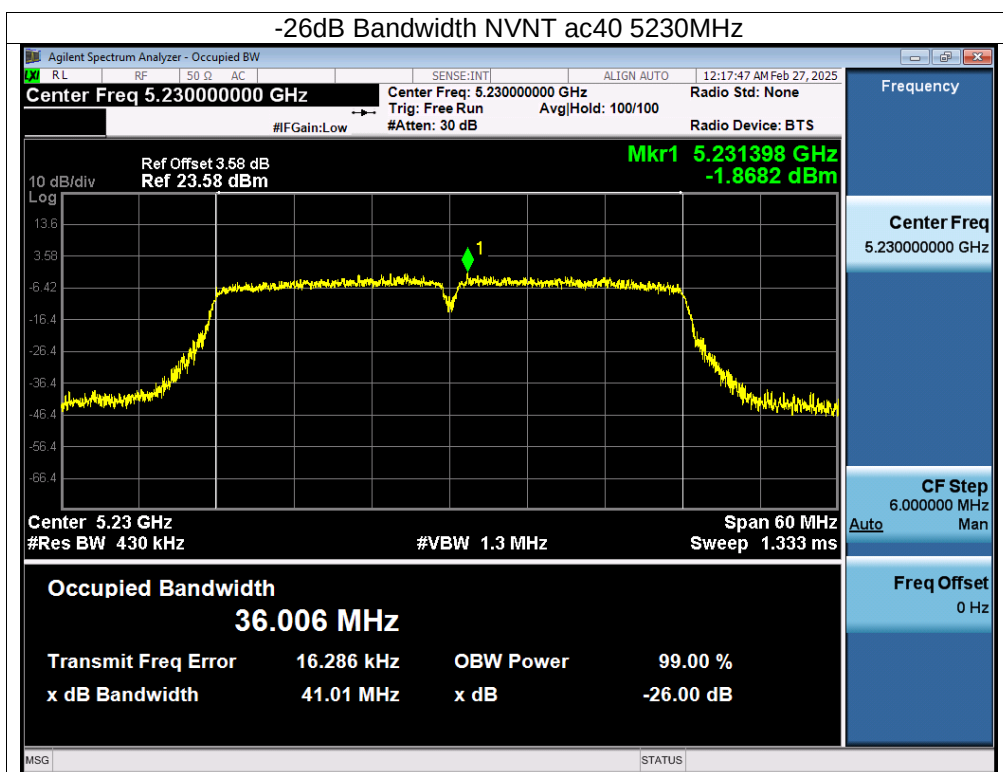




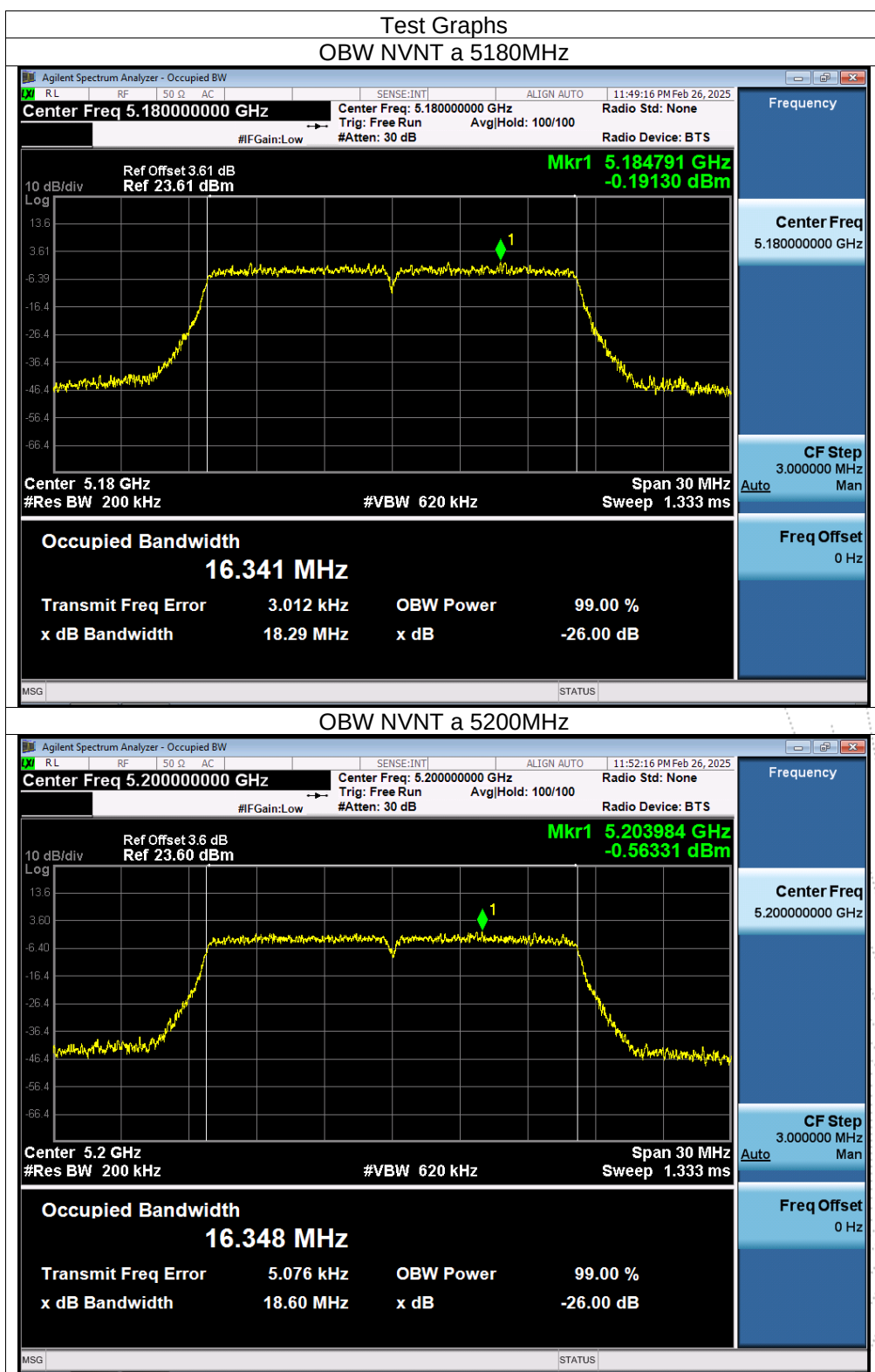


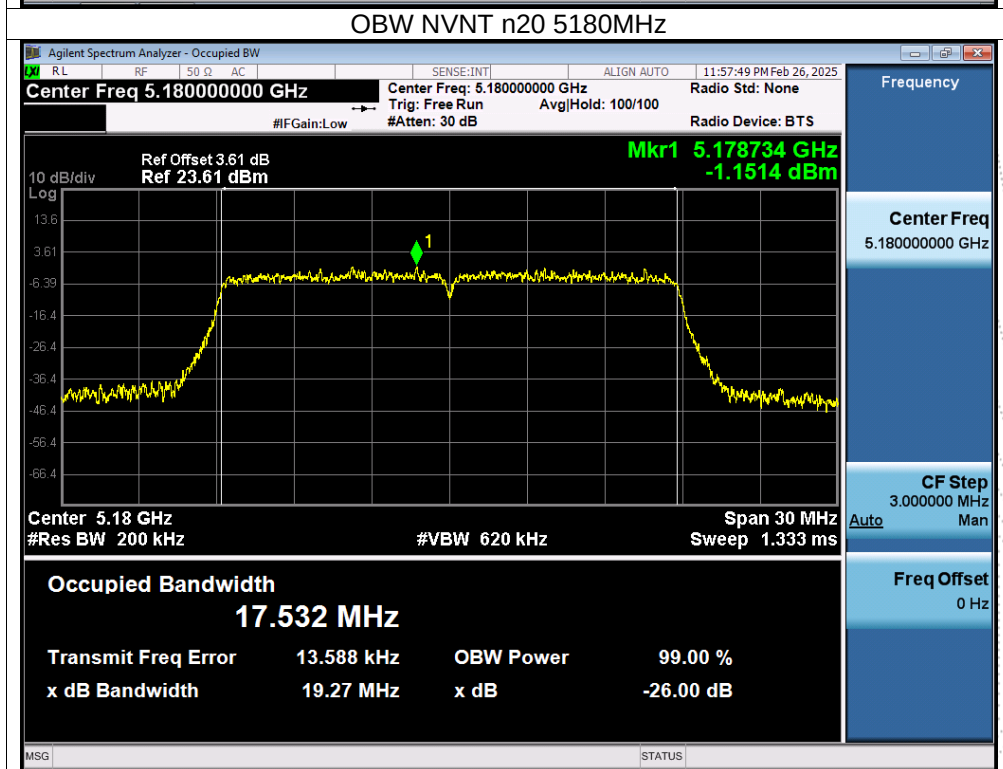
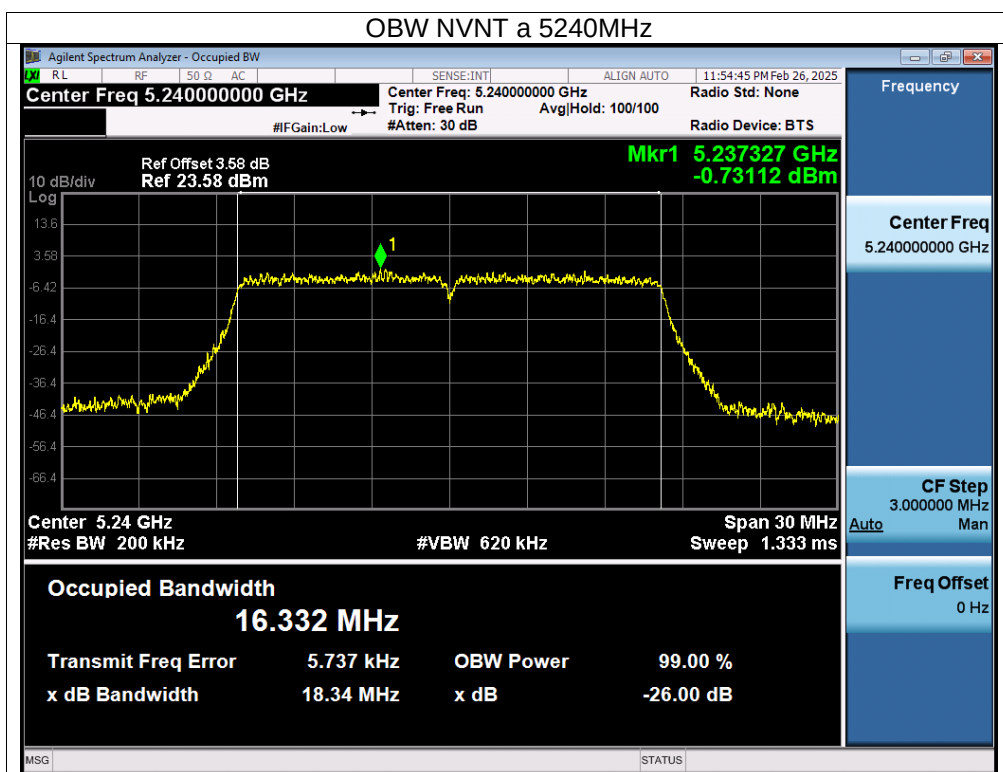


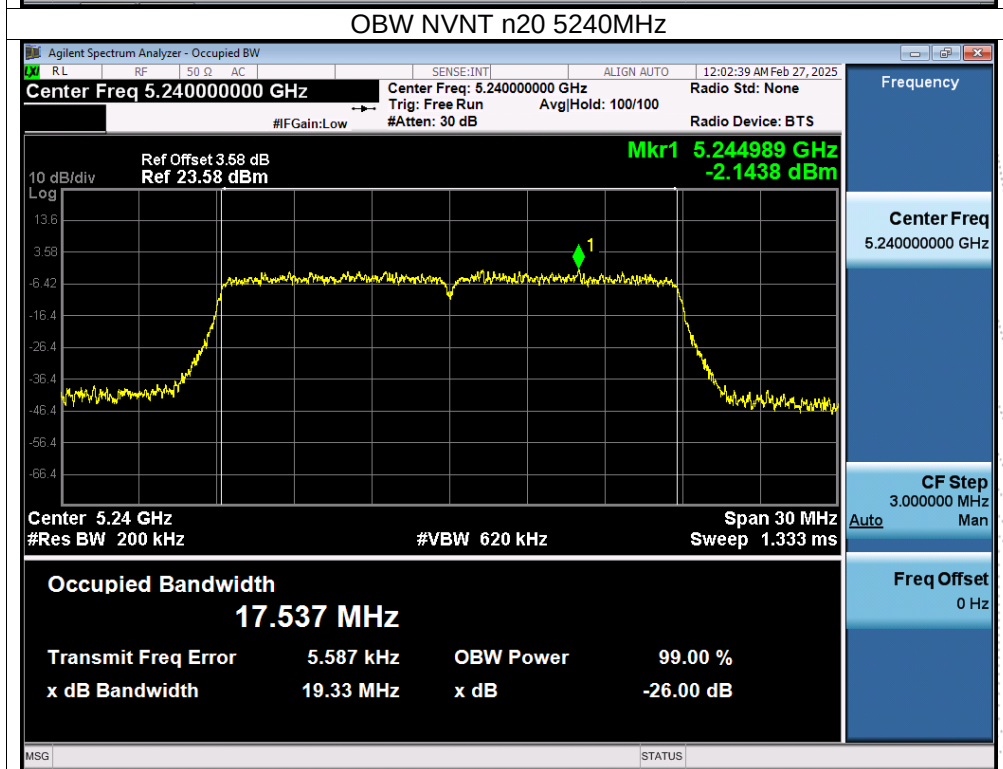
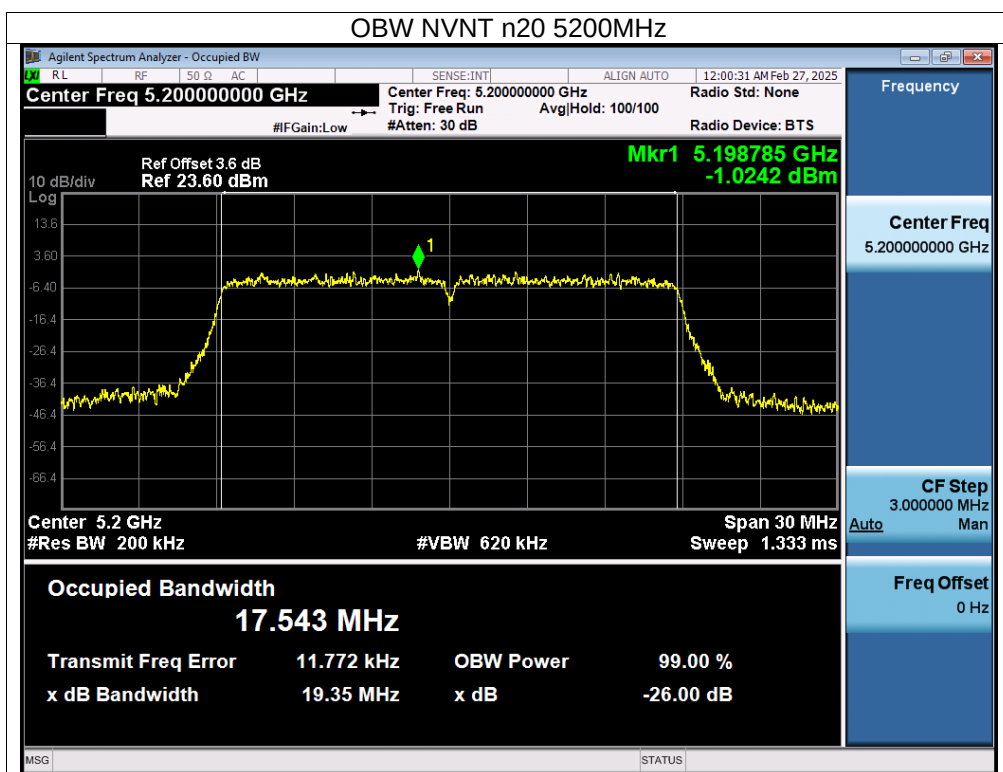


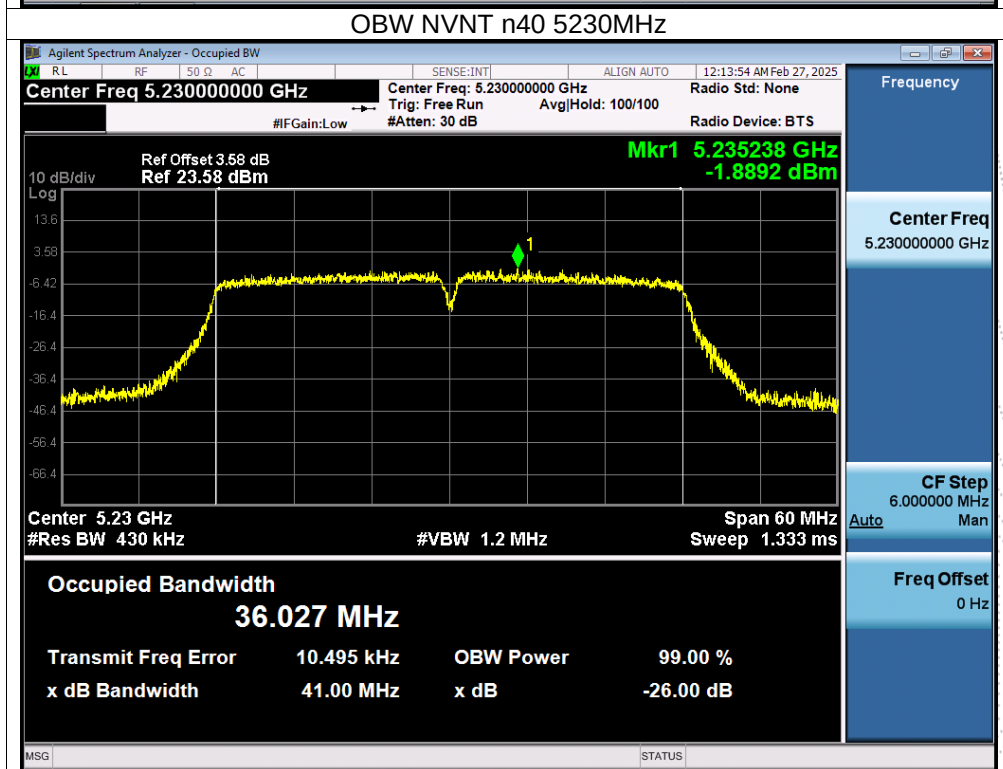
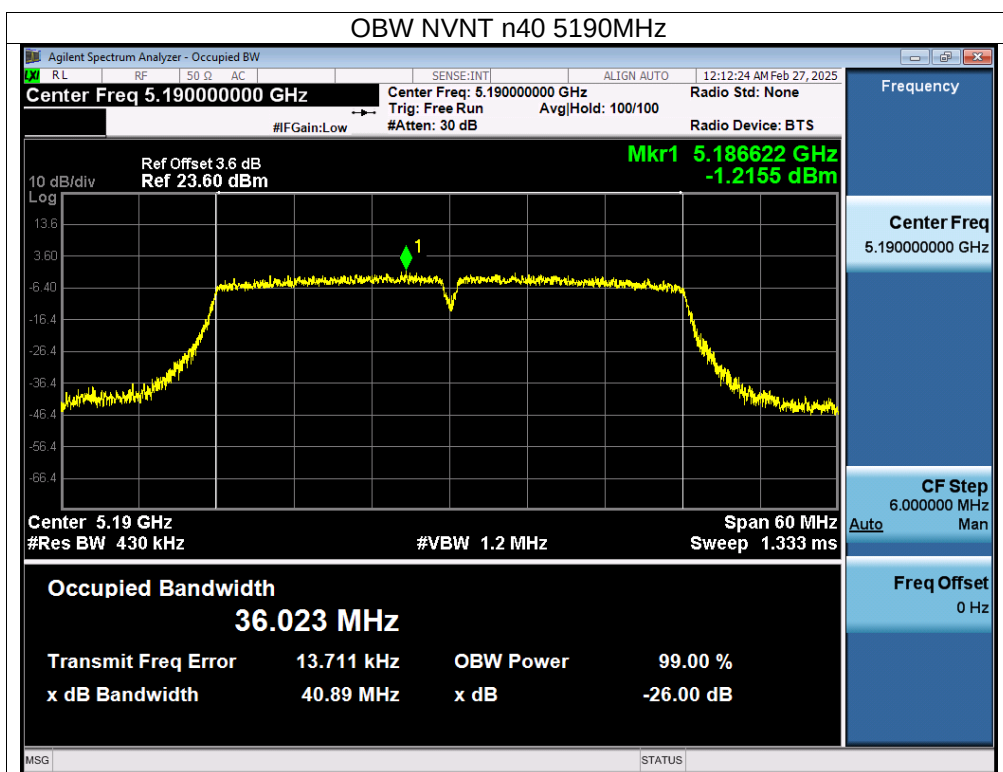


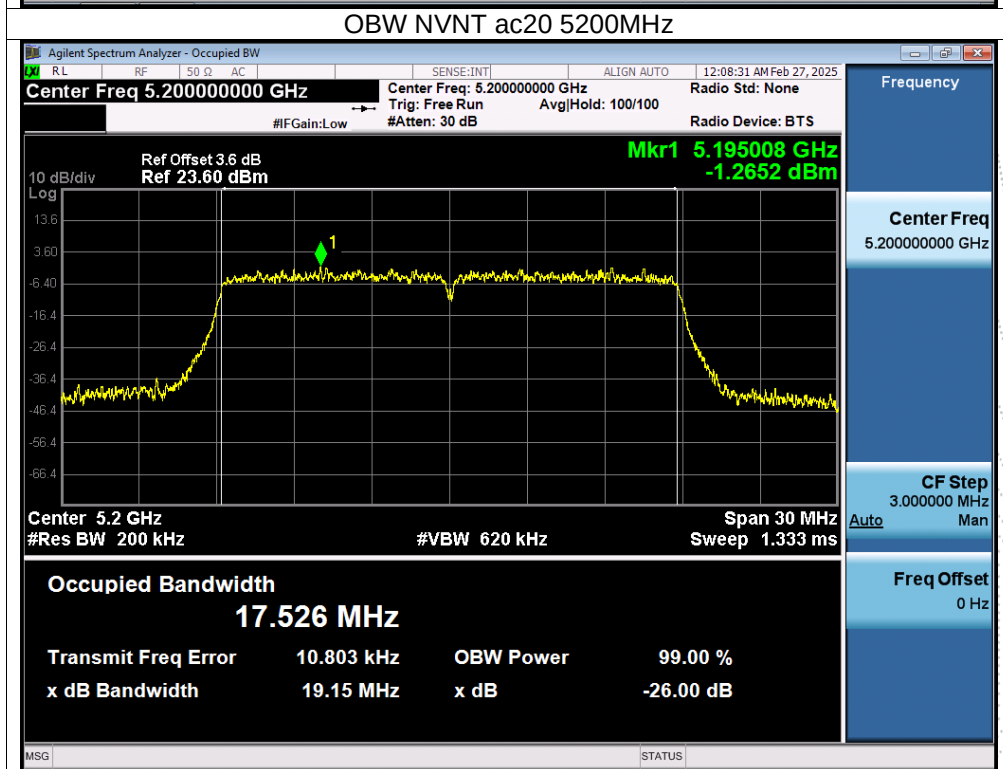
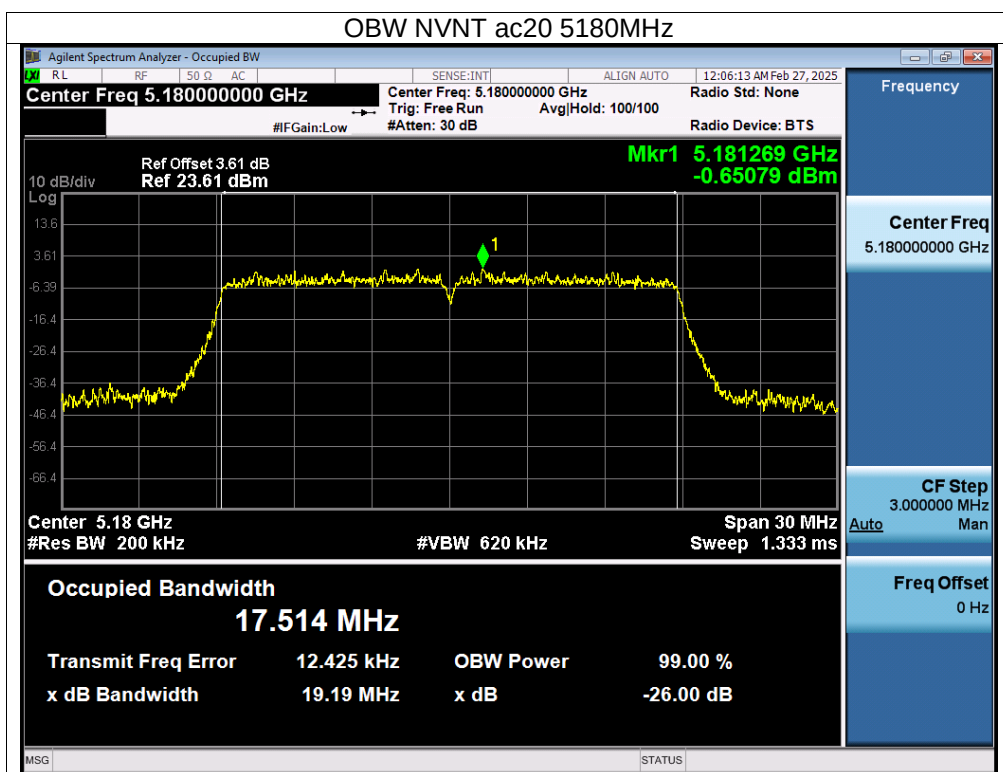
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

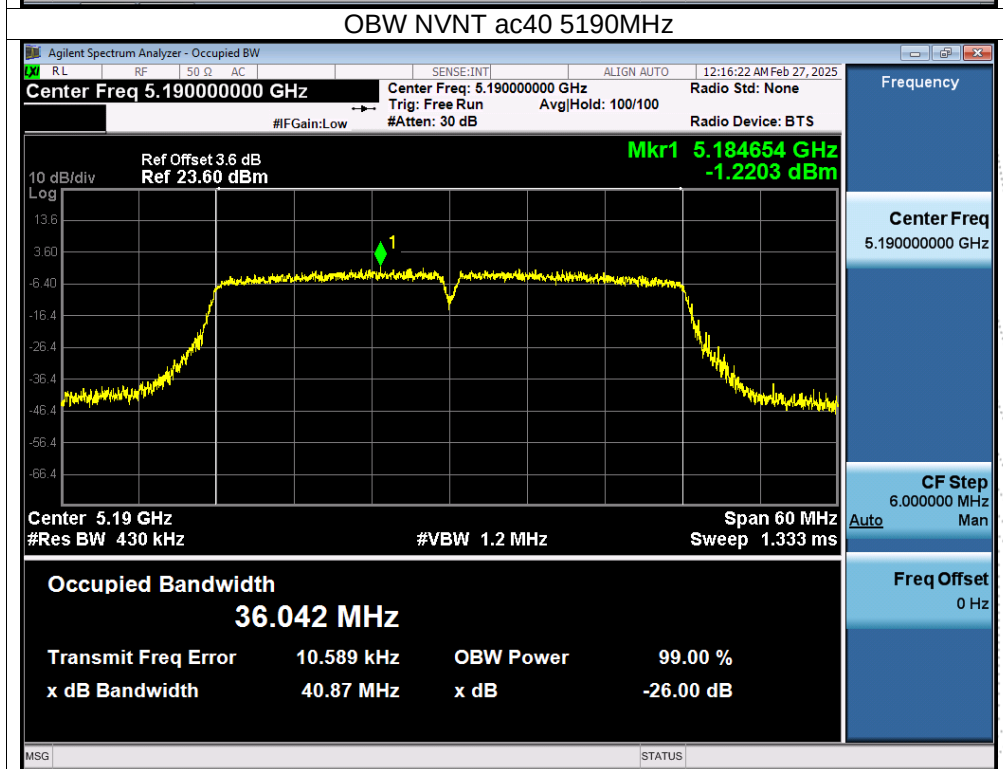
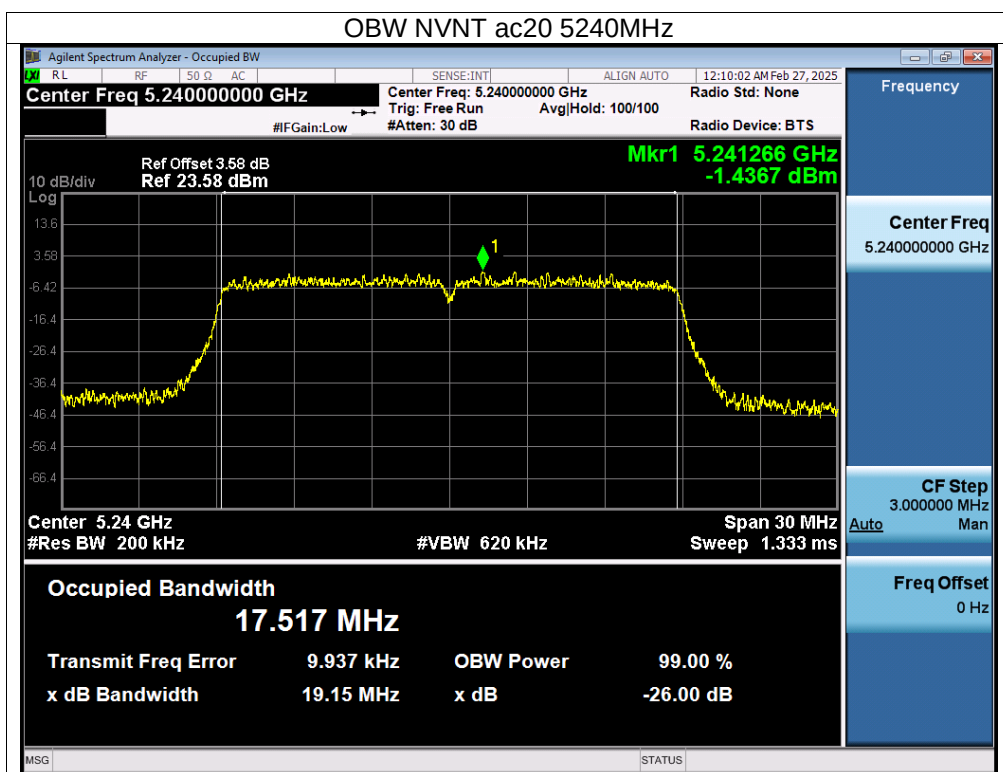


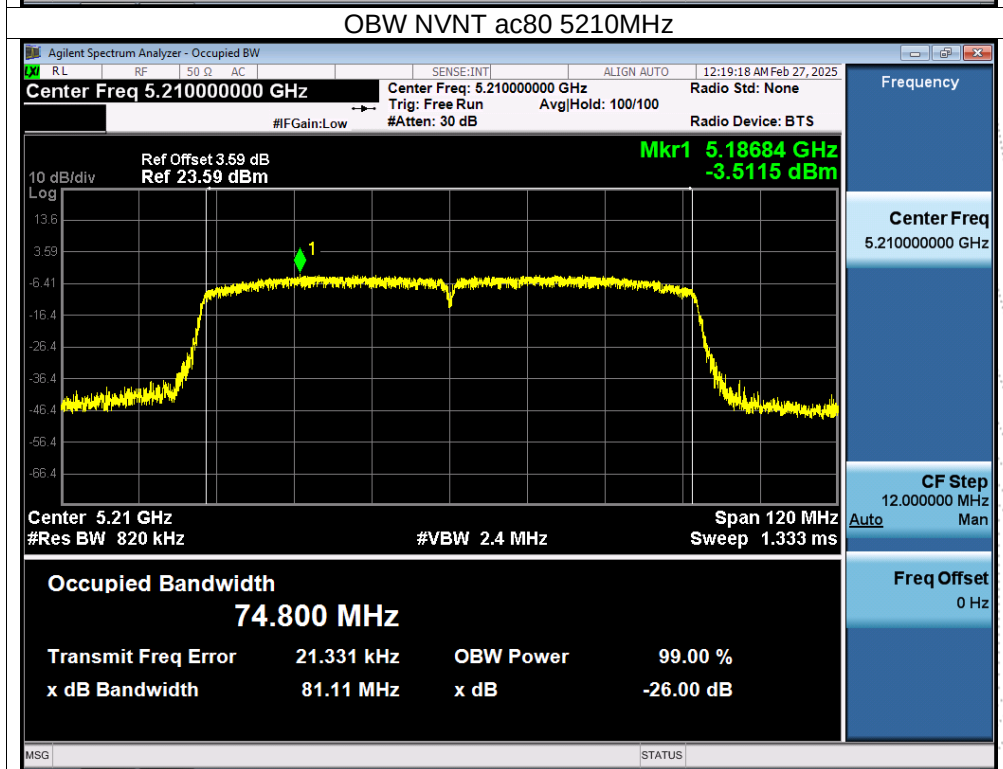
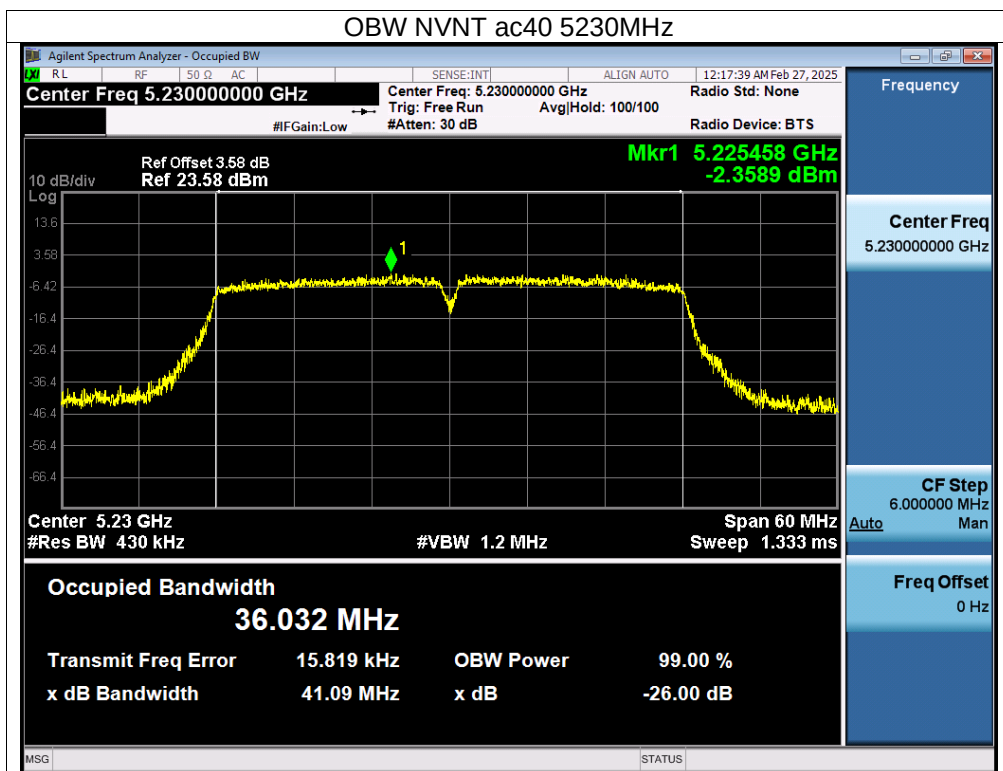






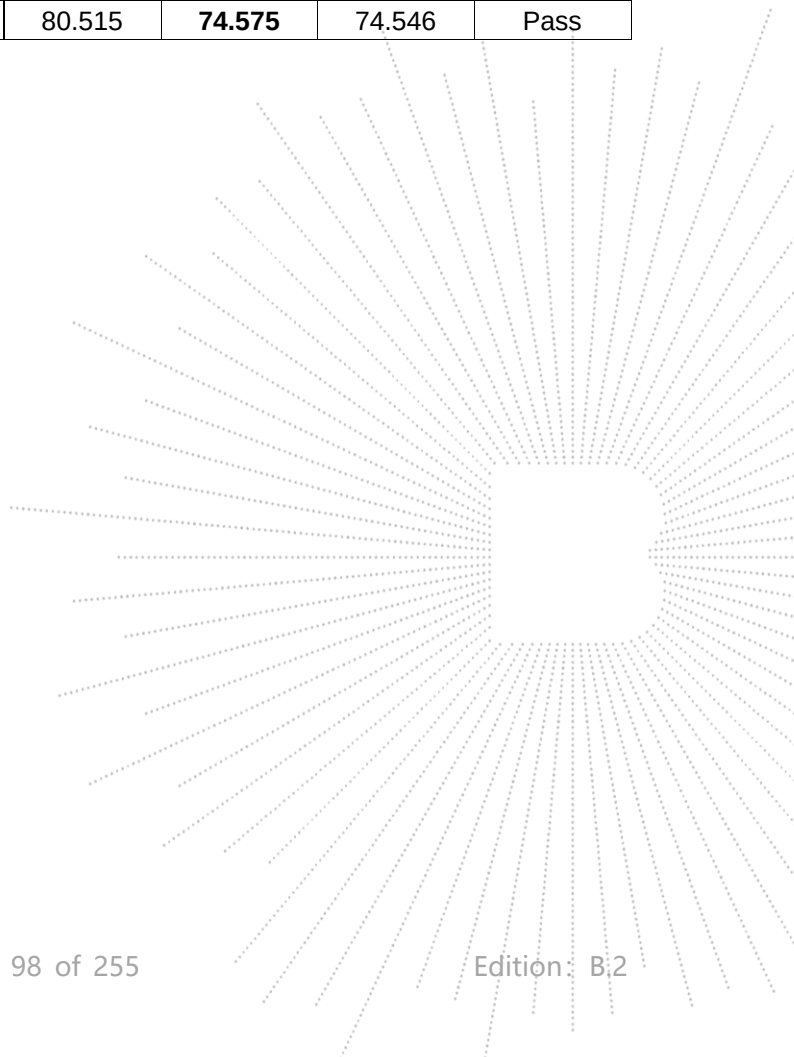






Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	(5260-5320MHz)		

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)		99% OBW (MHz)		Verdict
			Ant A	Ant B	Ant A	Ant B	
NVNT	a	5260	18.237	18.354	16.344	16.346	Pass
NVNT	a	5280	18.284	18.264	16.332	16.345	Pass
NVNT	a	5320	18.339	18.285	16.328	16.335	Pass
NVNT	n20	5260	19.218	19.291	17.527	17.522	Pass
NVNT	n20	5280	19.22	19.129	17.528	17.515	Pass
NVNT	n20	5320	19.243	19.26	17.535	17.52	Pass
NVNT	n40	5270	40.957	40.645	36.047	36.072	Pass
NVNT	n40	5310	40.71	40.416	36.102	36.021	Pass
NVNT	ac20	5260	19.398	19.295	17.534	17.535	Pass
NVNT	ac20	5280	19.343	19.087	17.518	17.517	Pass
NVNT	ac20	5320	19.153	19.328	17.528	17.517	Pass
NVNT	ac40	5270	40.873	40.842	36.001	36.074	Pass
NVNT	ac40	5310	41.096	40.758	36.069	36.029	Pass
NVNT	ac80	5290	80.692	80.515	74.575	74.546	Pass



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

