

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5260-5320MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5260	5.77	9.05	/	11	Pass
NVNT	a	5280	6.08	9.1	/	11	Pass
NVNT	a	5320	7.75	8.99	/	11	Pass
NVNT	n20	5260	3.72	7.57	9.07	9.4	Pass
NVNT	n20	5280	0.28	-2.11	2.26	9.4	Pass
NVNT	n20	5320	0.79	-3.92	2.05	9.4	Pass
NVNT	n40	5270	-5.02	-5.88	-2.42	9.4	Pass
NVNT	n40	5310	-4.21	-11.84	-3.52	9.4	Pass
NVNT	ac20	5260	-1.47	-1.38	1.59	9.4	Pass
NVNT	ac20	5280	-1.94	-2.18	0.95	9.4	Pass
NVNT	ac20	5320	-1.09	-0.92	2.01	9.4	Pass
NVNT	ac40	5270	-3.15	-9.78	-2.30	9.4	Pass
NVNT	ac40	5310	-4.14	-15.93	-3.86	9.4	Pass
NVNT	ac80	5290	-9.44	-11.14	-7.20	9.4	Pass

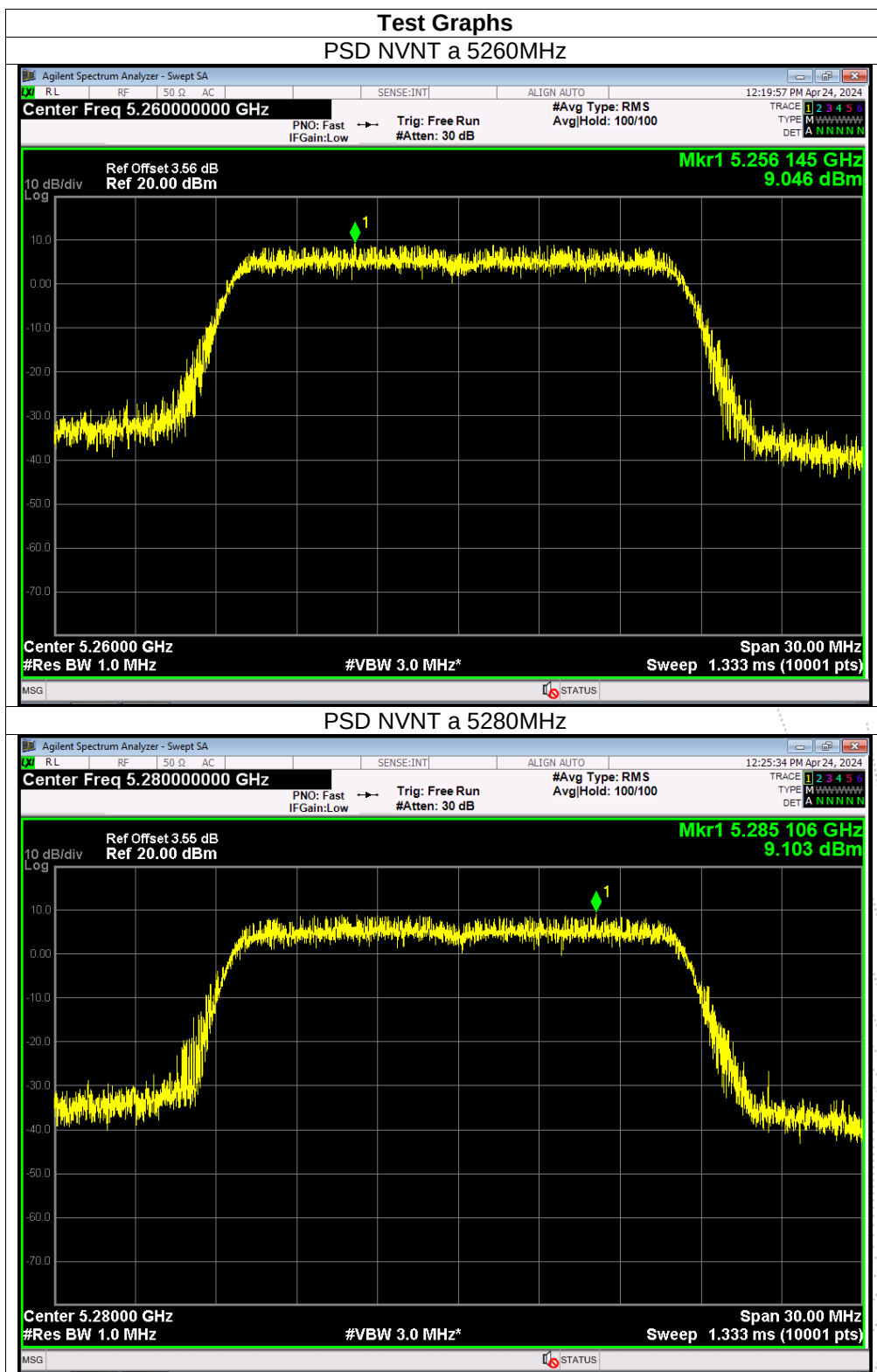
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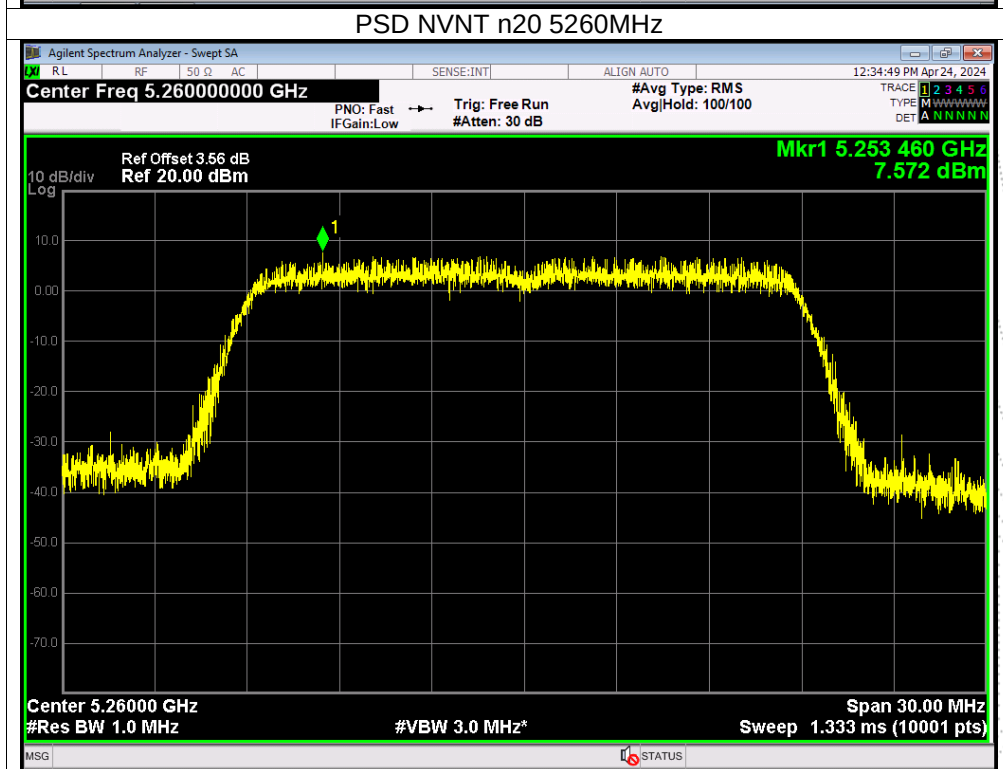
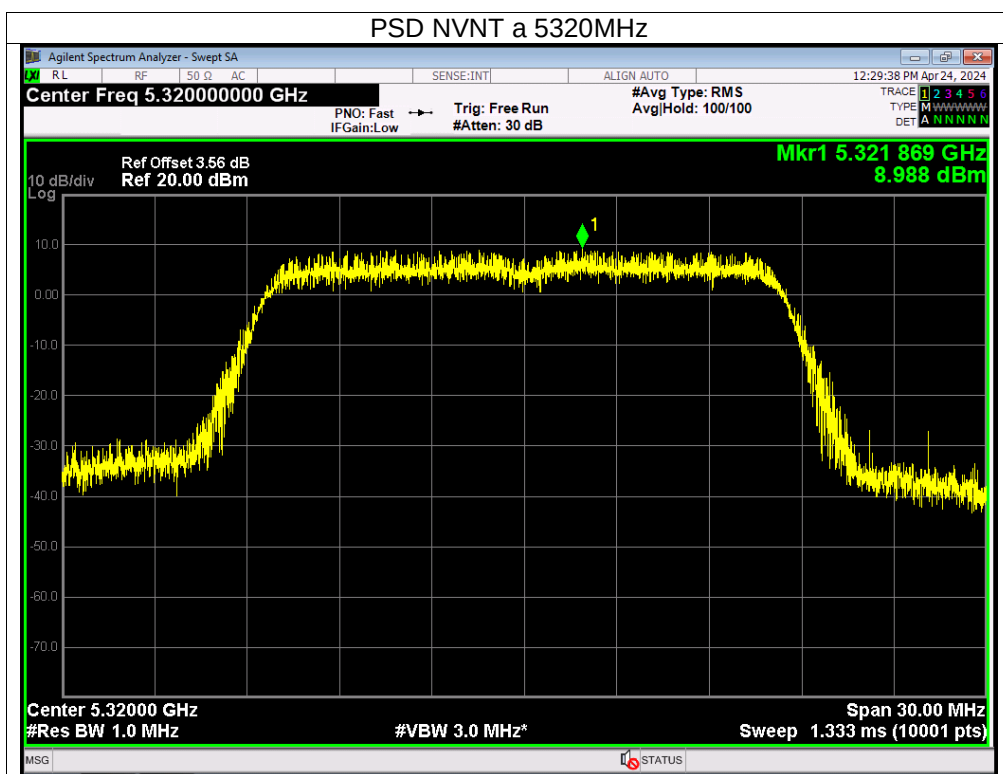
Antenna A gain: 4.59 dBi, Antenna B gain: 3.9 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
=7.6 dBi>6dBi

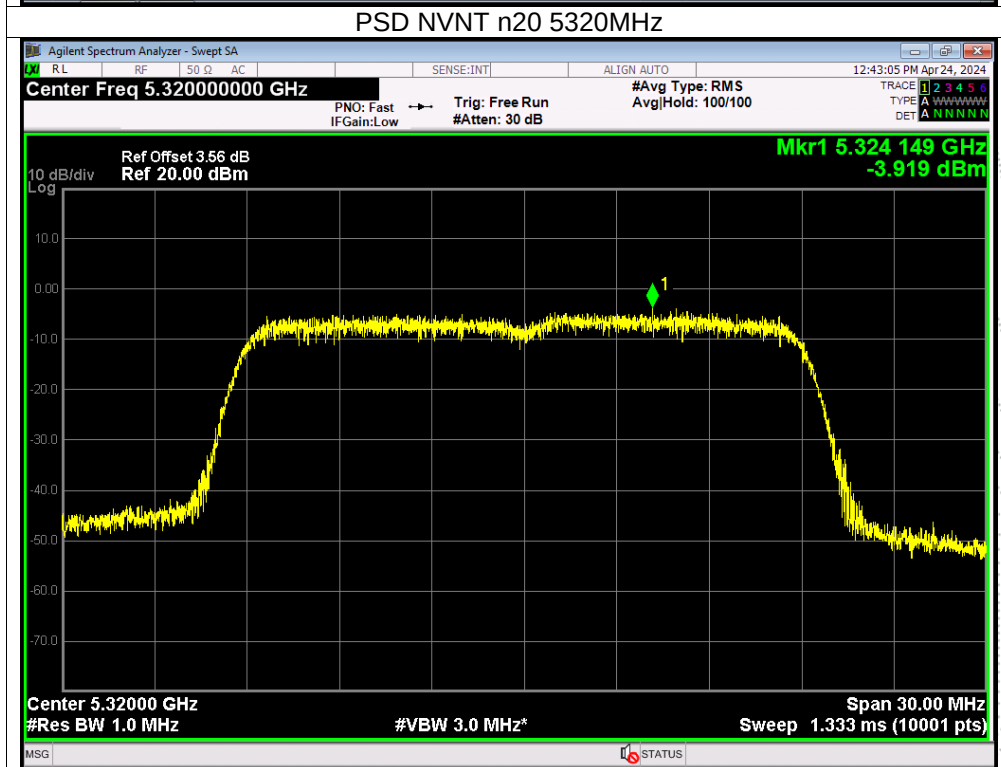
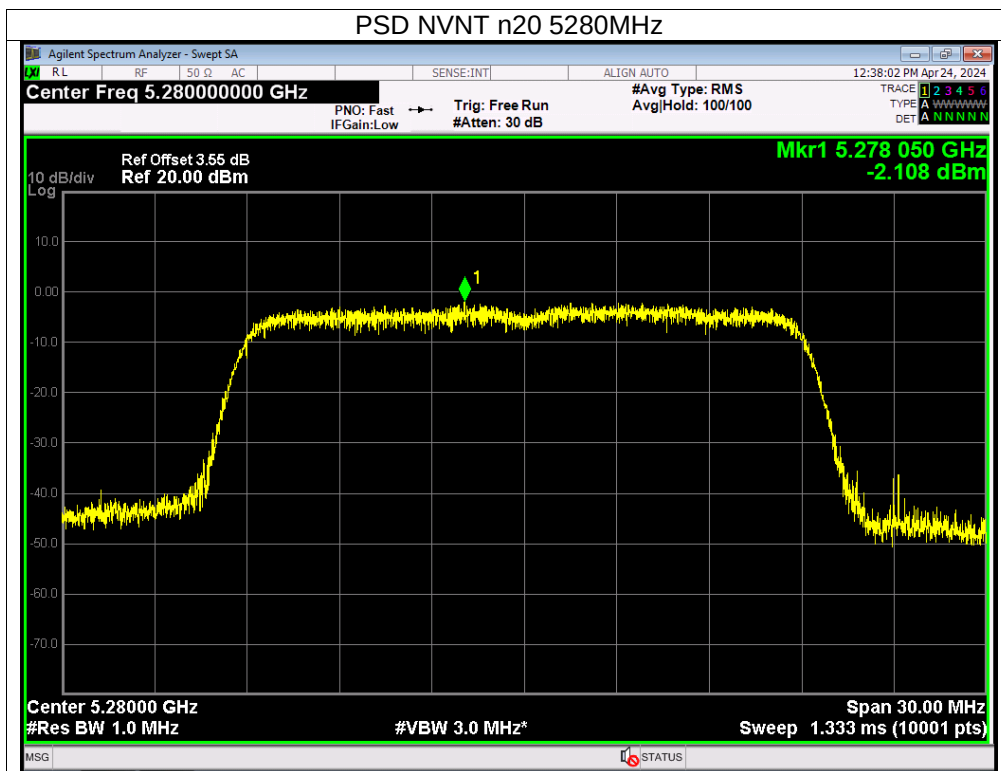
Limit=11-(7.6-6)=9.4 dBi

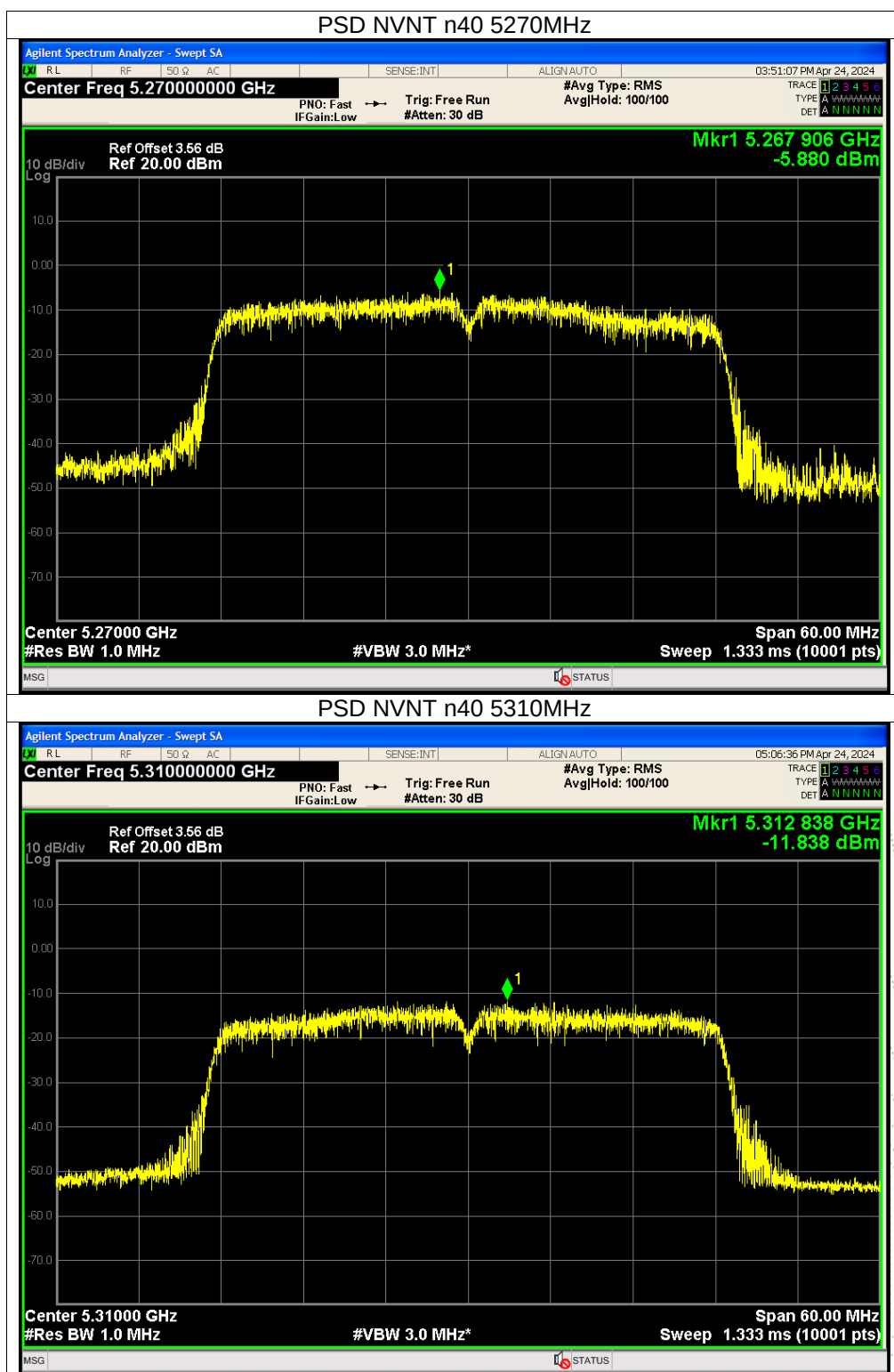


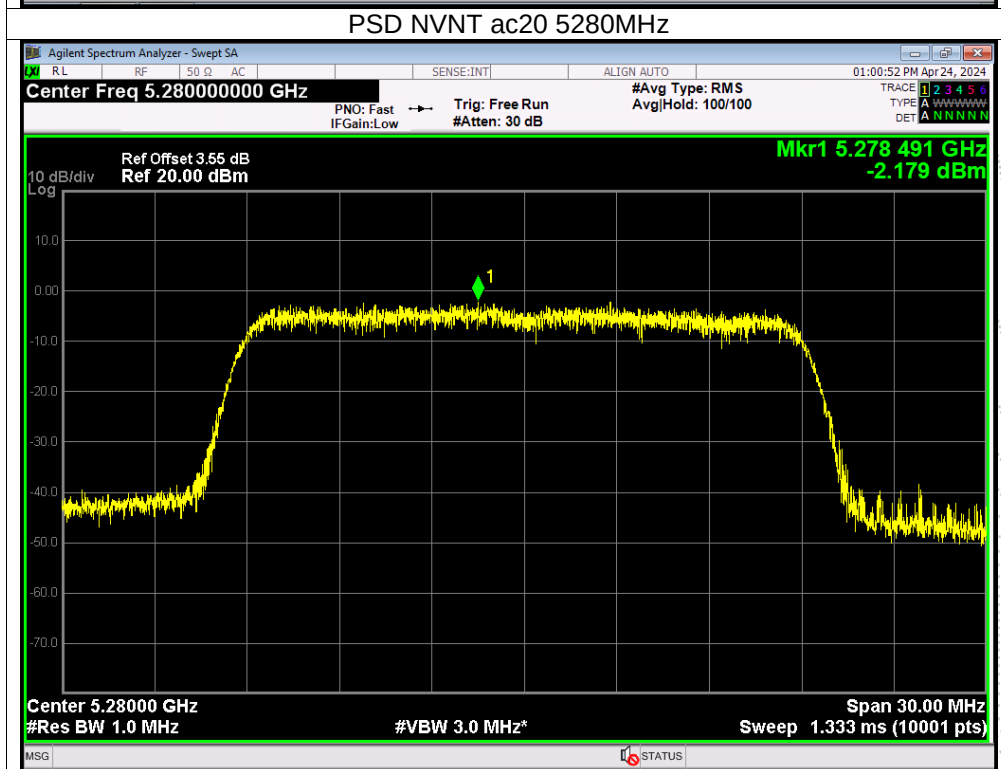
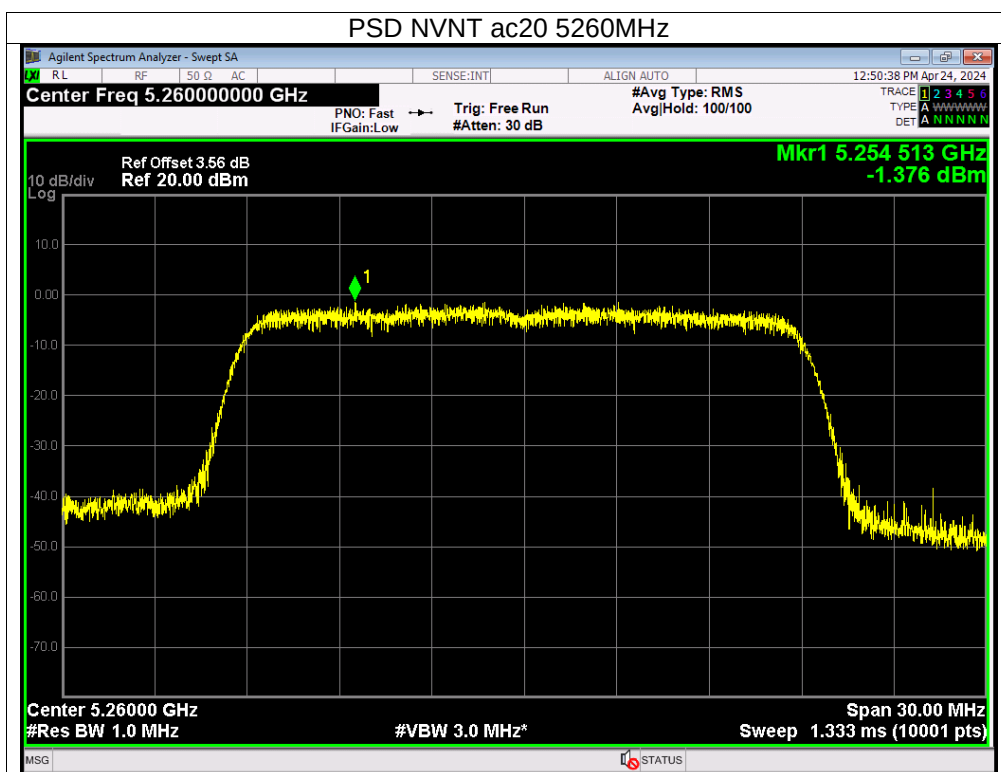
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

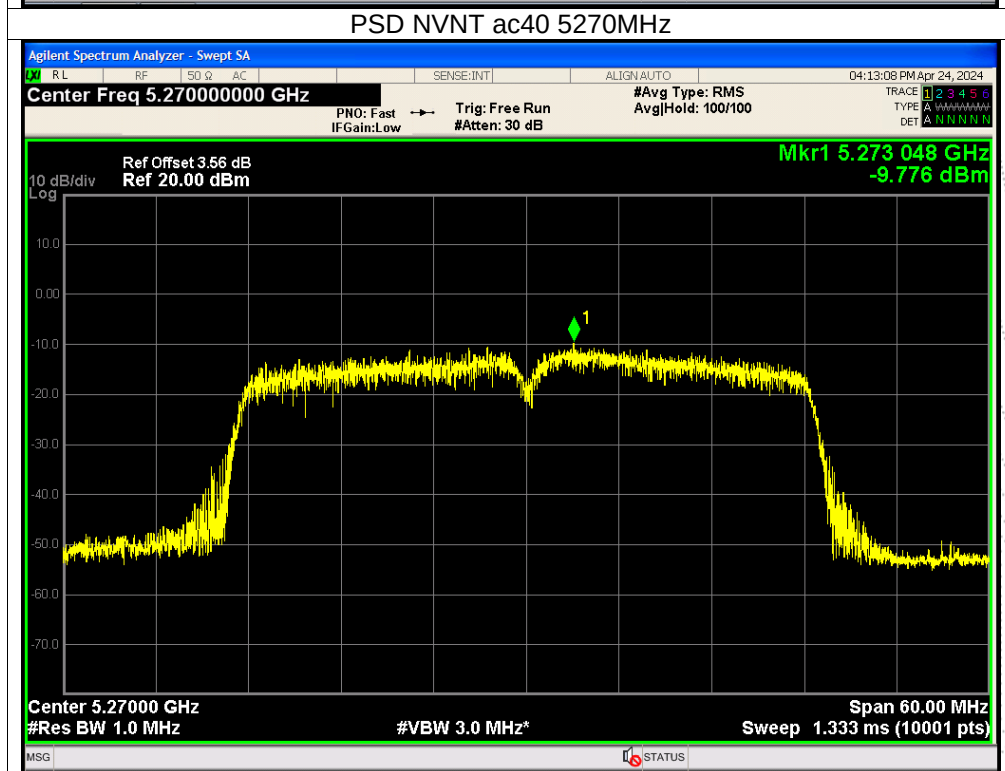
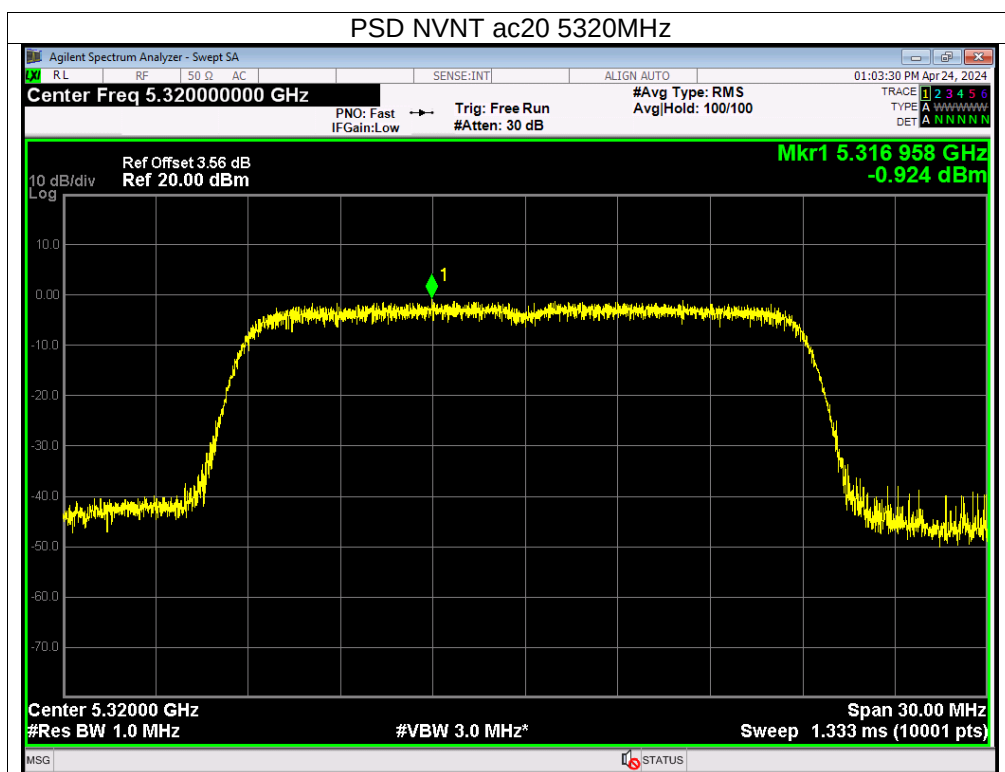


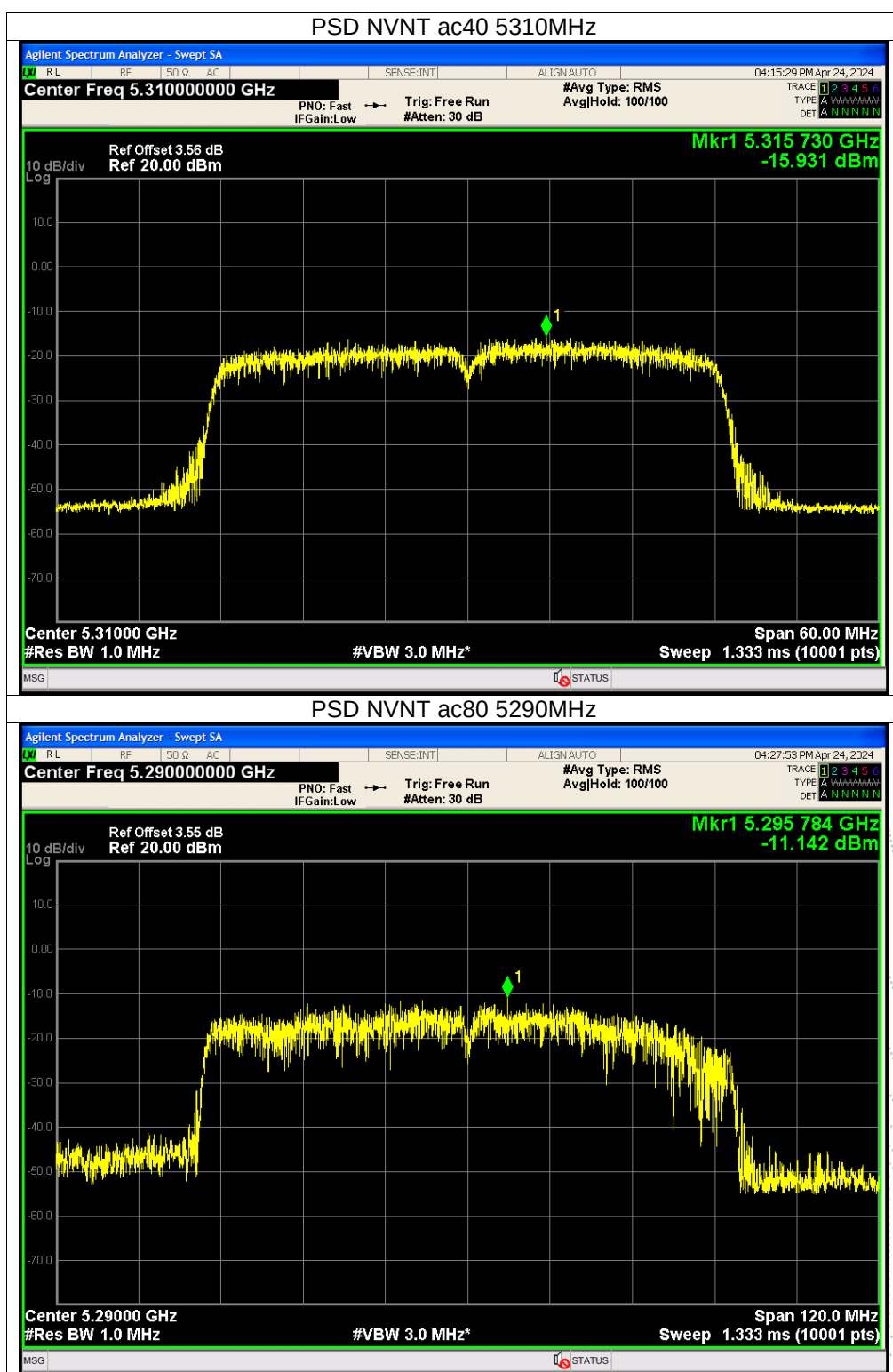












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5500-5700MHz)		

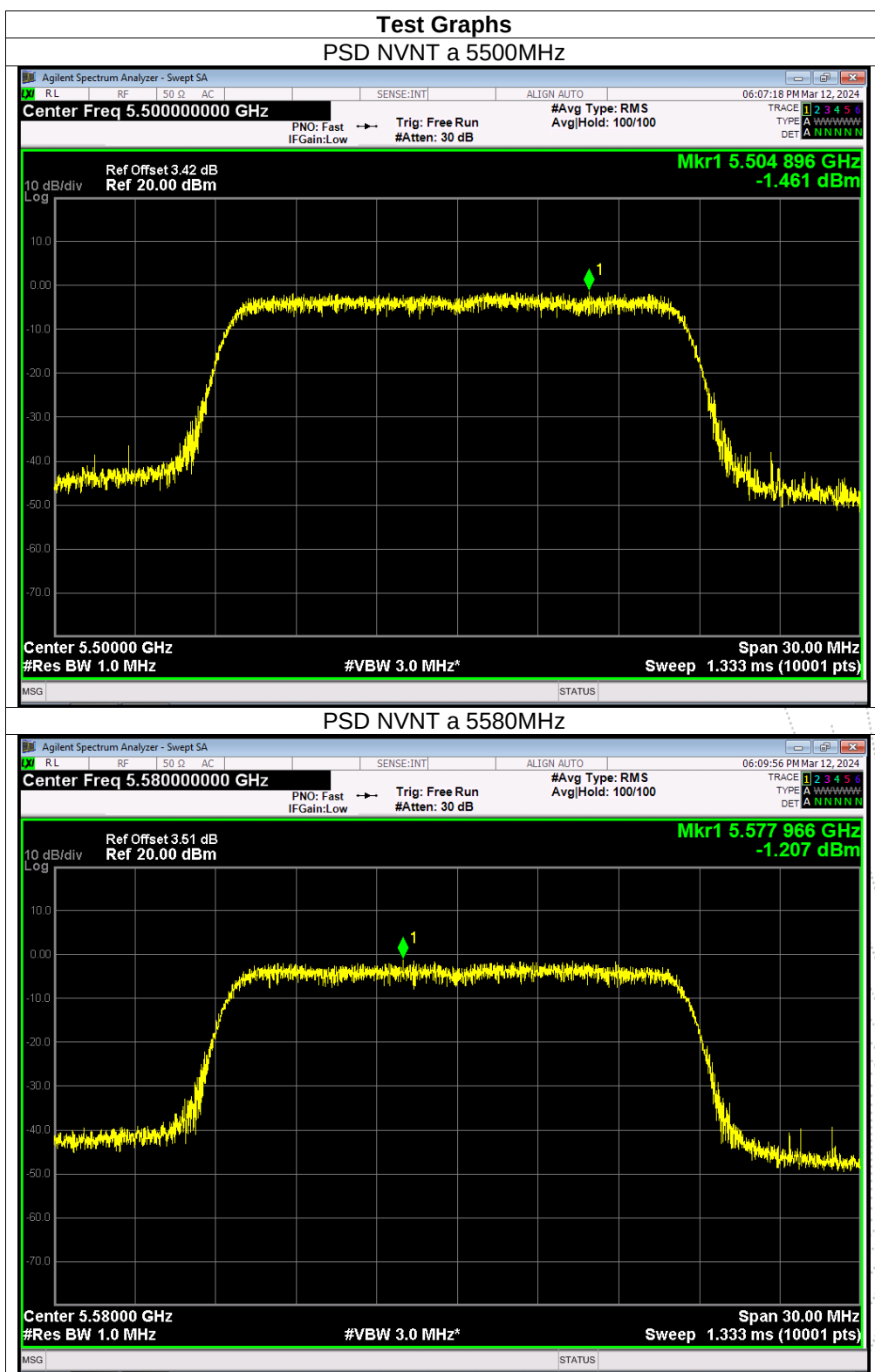
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5500	-1.46	-3.91	/	11	Pass
NVNT	a	5580	-1.21	-14.67	/	11	Pass
NVNT	a	5700	-2.08	-8.12	/	11	Pass
NVNT	n20	5500	-3.03	-6.95	-1.55	9.4	Pass
NVNT	n20	5580	-3.79	-10.06	-2.87	9.4	Pass
NVNT	n20	5700	-4.29	-11.45	-3.53	9.4	Pass
NVNT	n40	5510	-4.13	-15.51	-3.82	9.4	Pass
NVNT	n40	5550	-4.66	-17.9	-4.46	9.4	Pass
NVNT	n40	5670	-7.24	-20.31	-7.03	9.4	Pass
NVNT	ac20	5500	-2.63	-8.88	-1.71	9.4	Pass
NVNT	ac20	5580	-2.5	-11.65	-2.00	9.4	Pass
NVNT	ac20	5700	-4.33	-13.19	-3.80	9.4	Pass
NVNT	ac40	5510	-4.6	-15.7	-4.28	9.4	Pass
NVNT	ac40	5550	-5.12	-16.47	-4.81	9.4	Pass
NVNT	ac40	5670	-5.89	-18.96	-5.68	9.4	Pass
NVNT	ac80	5530	-6.85	-21.74	-6.71	9.4	Pass

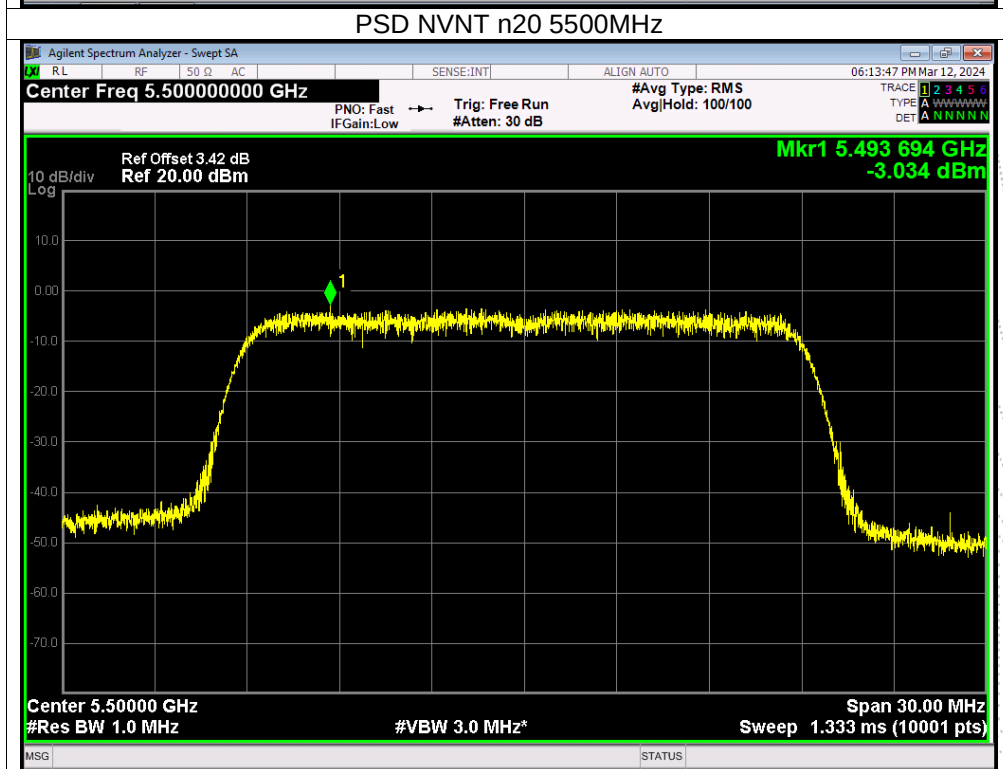
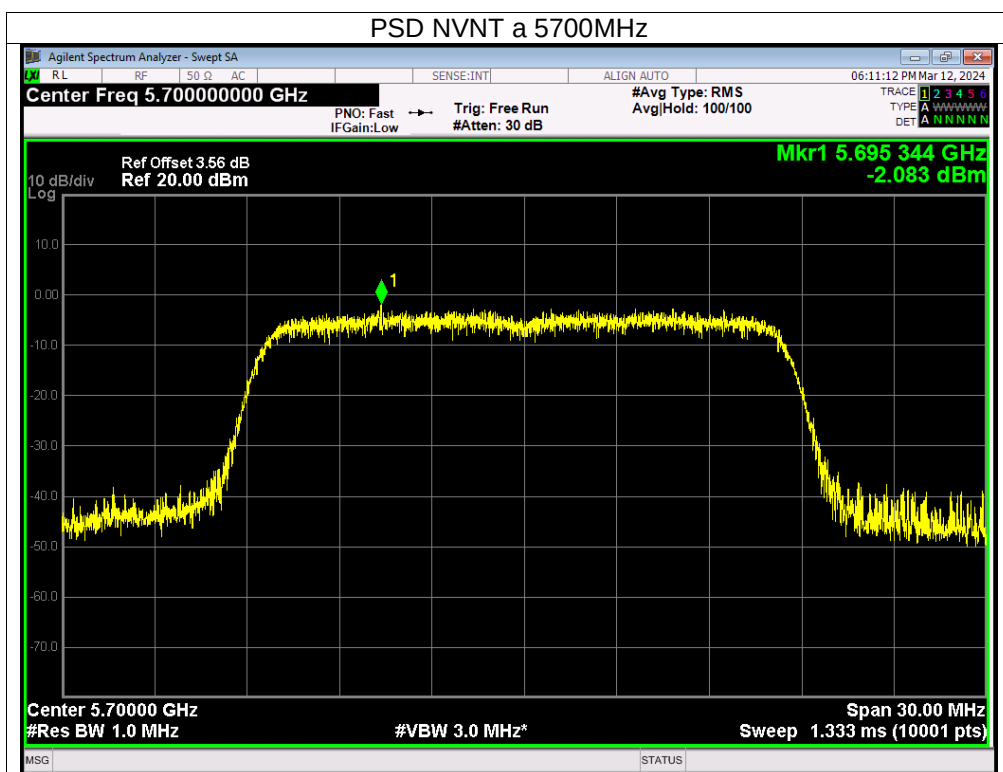
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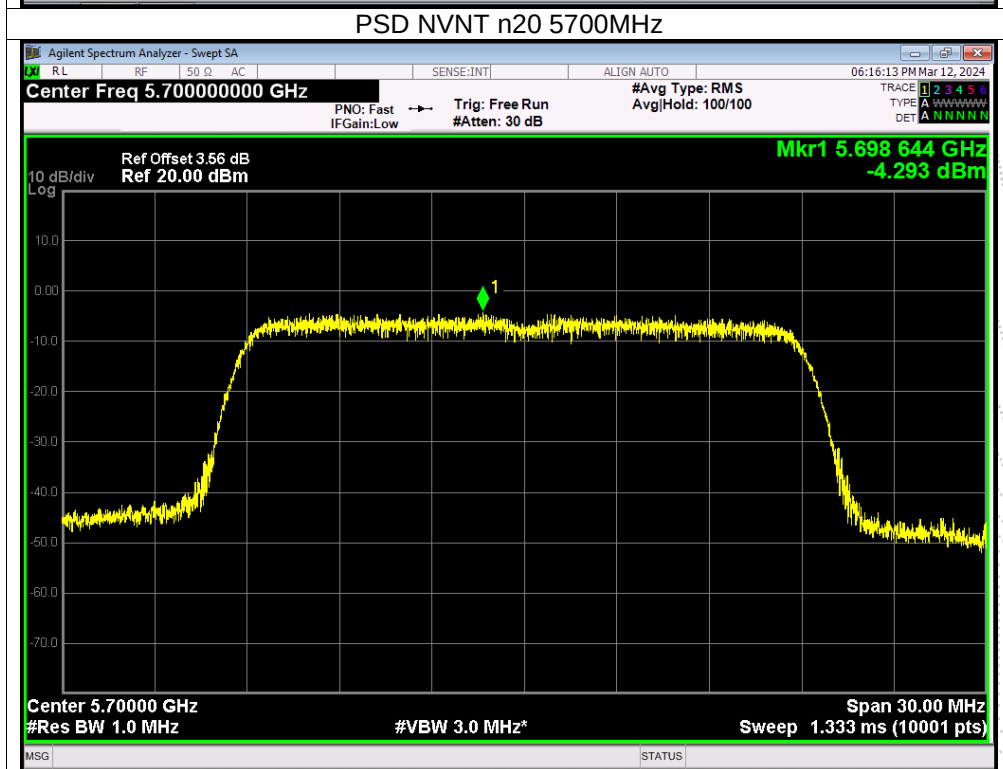
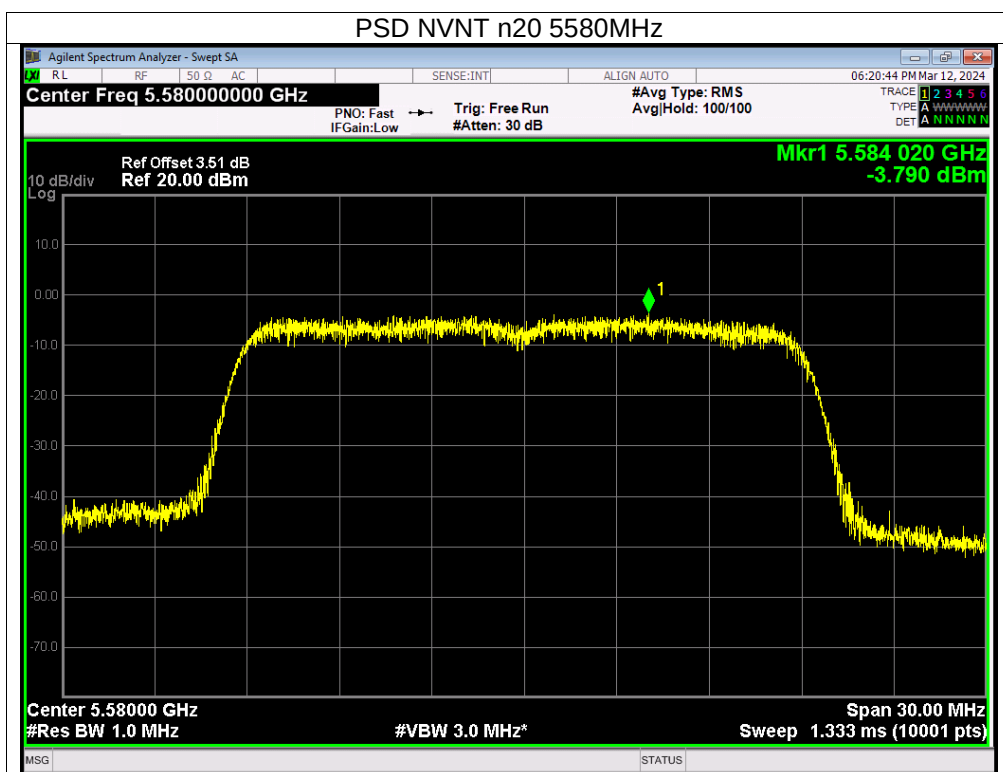
Antenna A gain: 4.59 dBi, Antenna B gain: 2.9 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
=7.6 dBi>6dBi

Limit=11-(7.6-6)=9.4 dBi

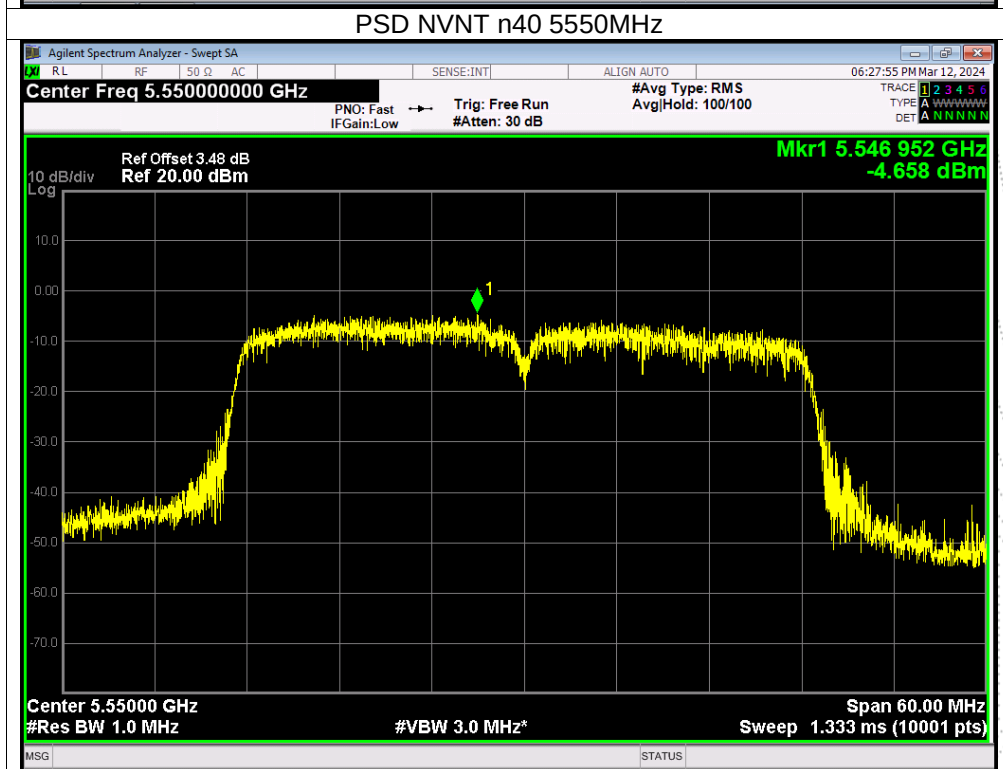
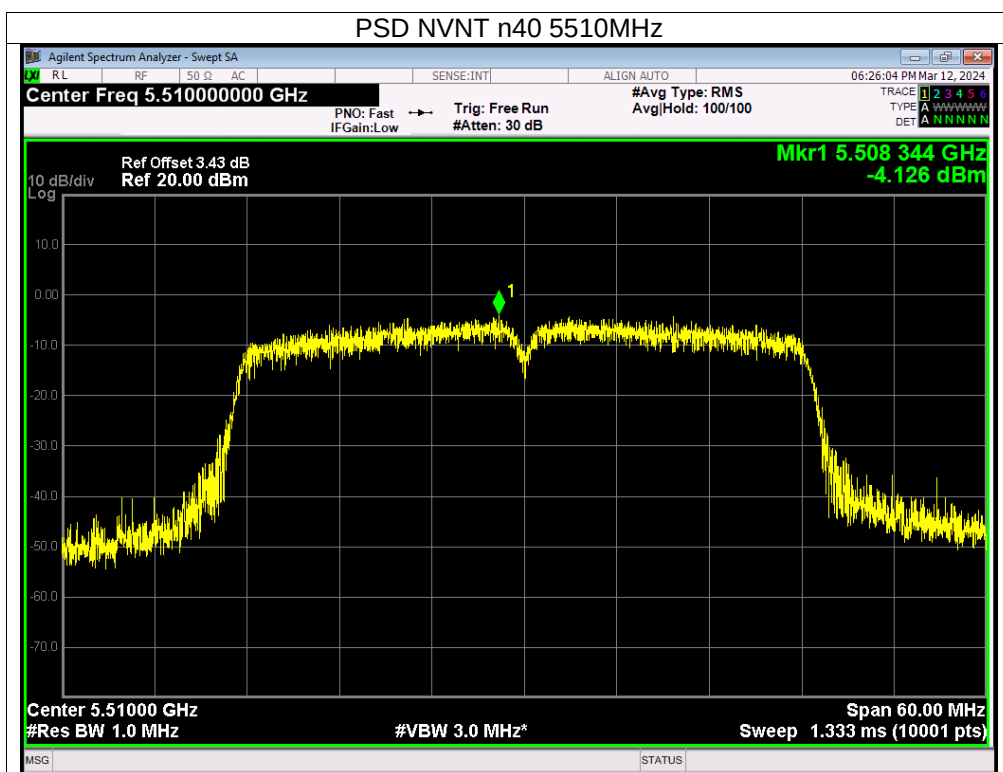
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

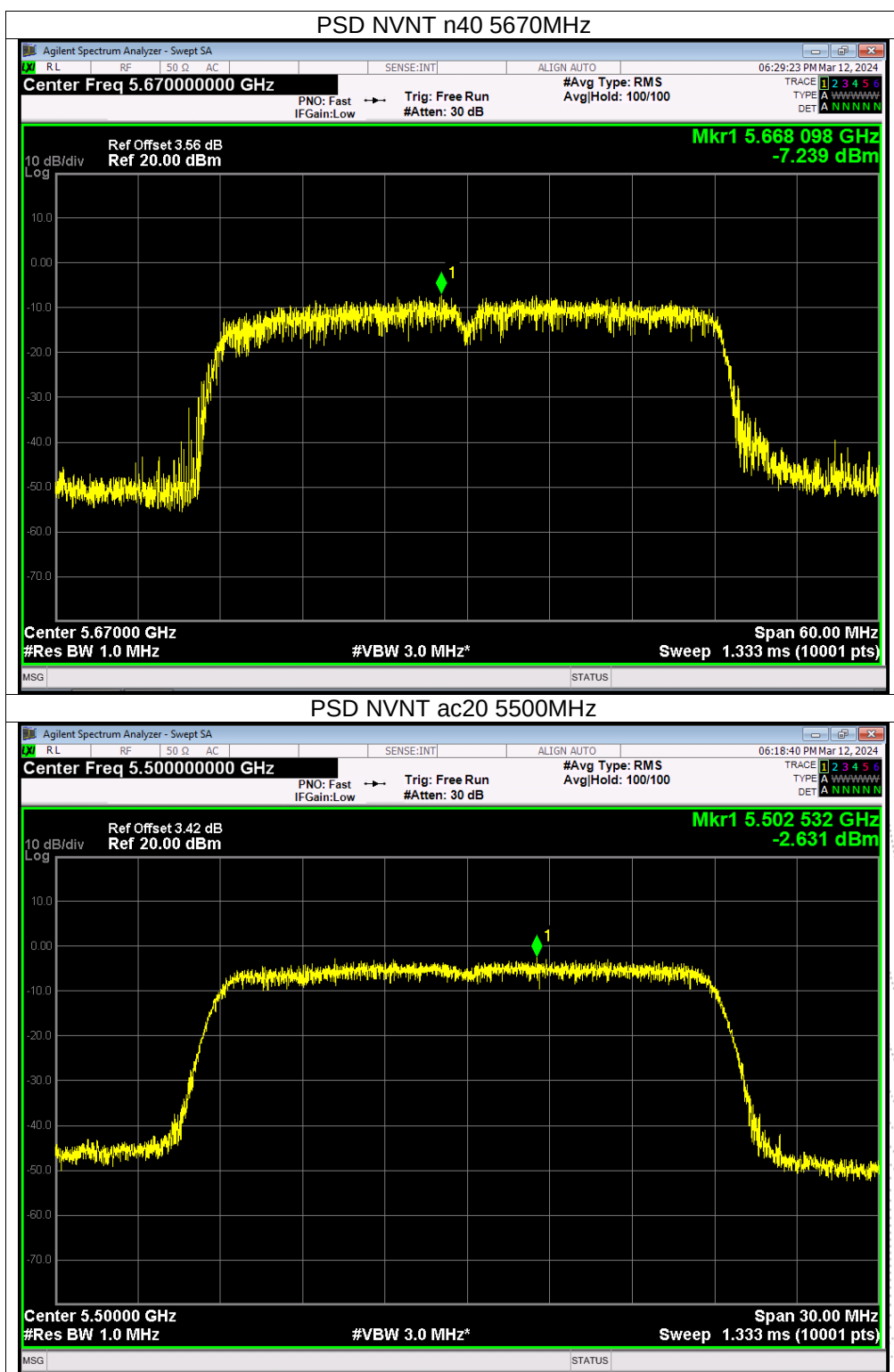


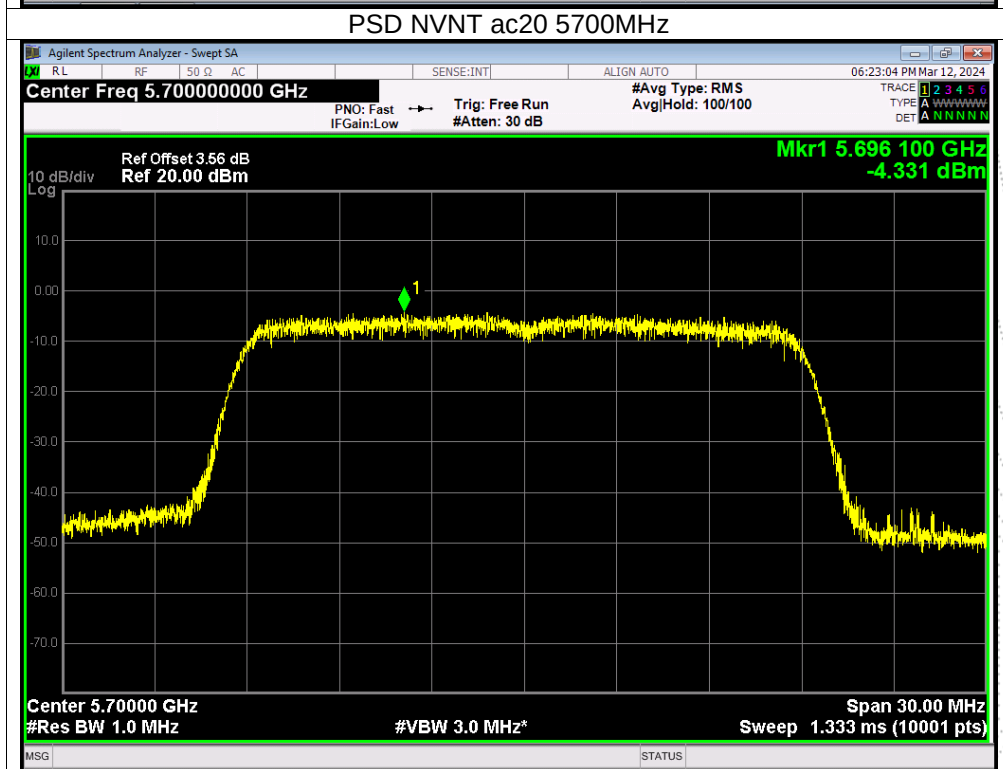
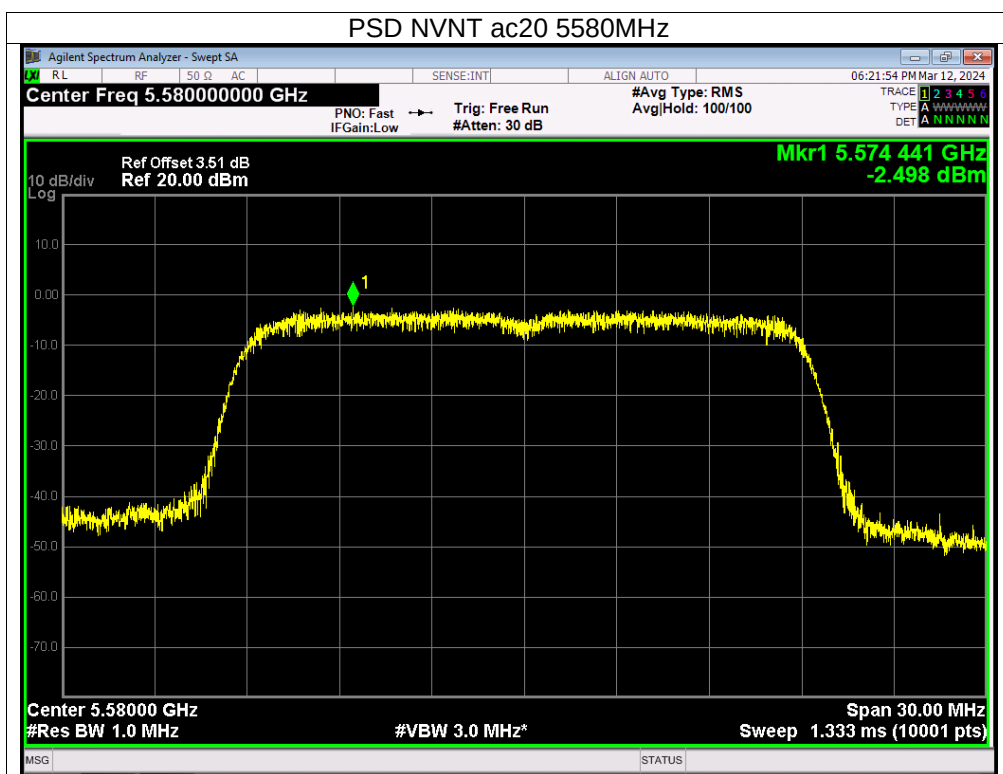


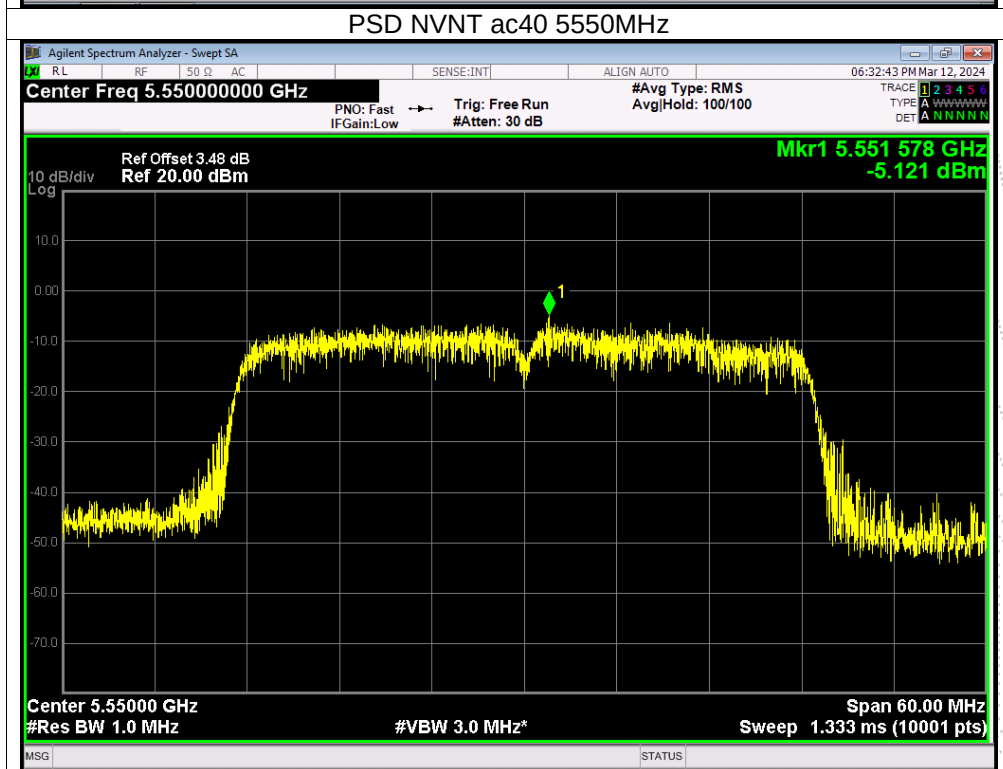
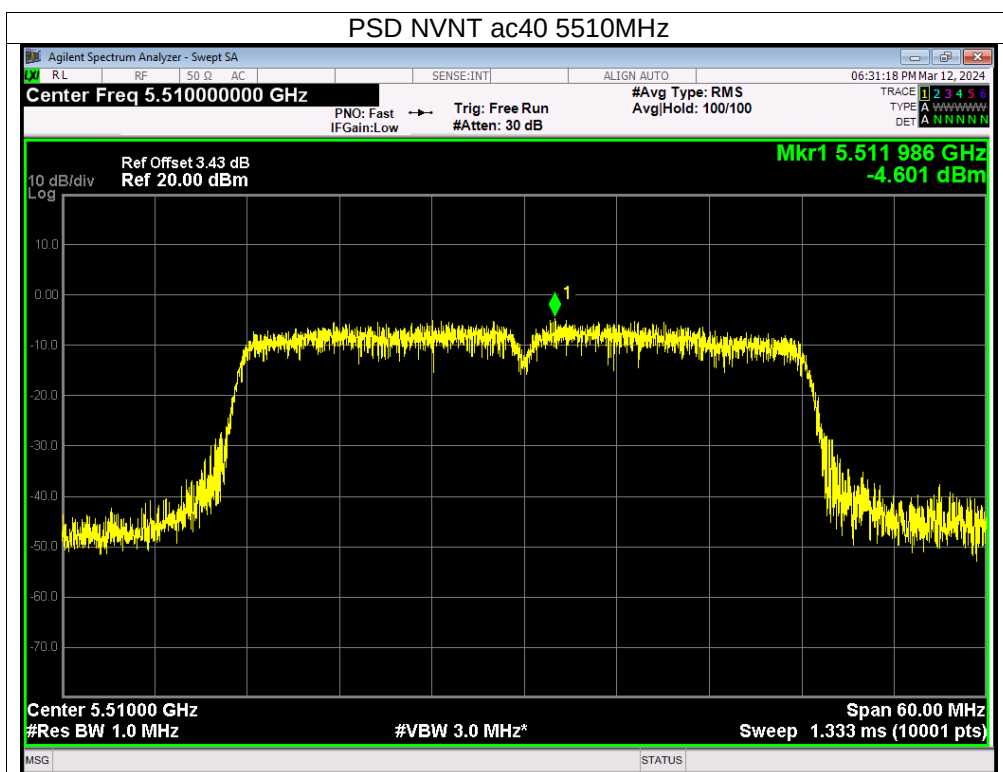


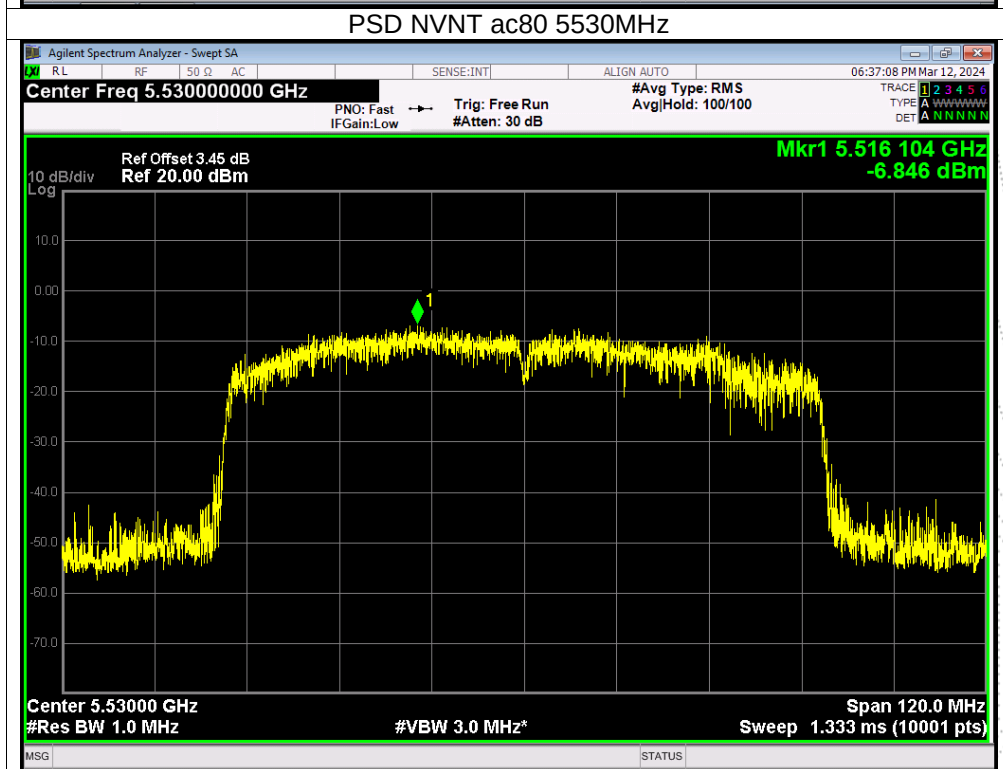
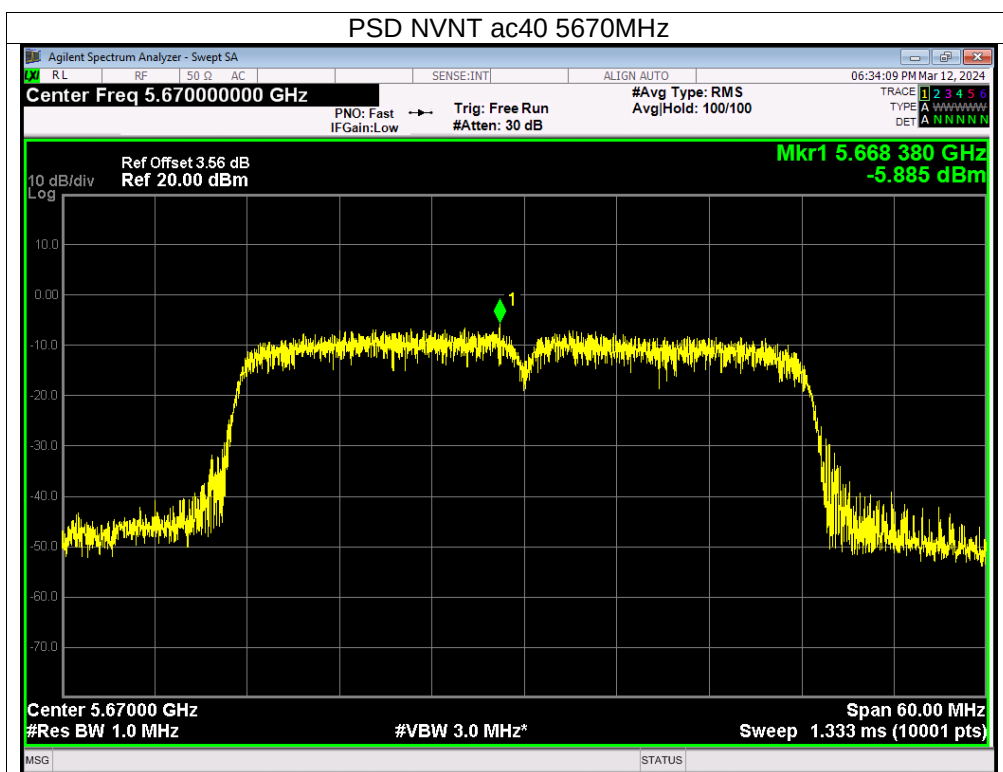
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Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5745-5825MHz)		

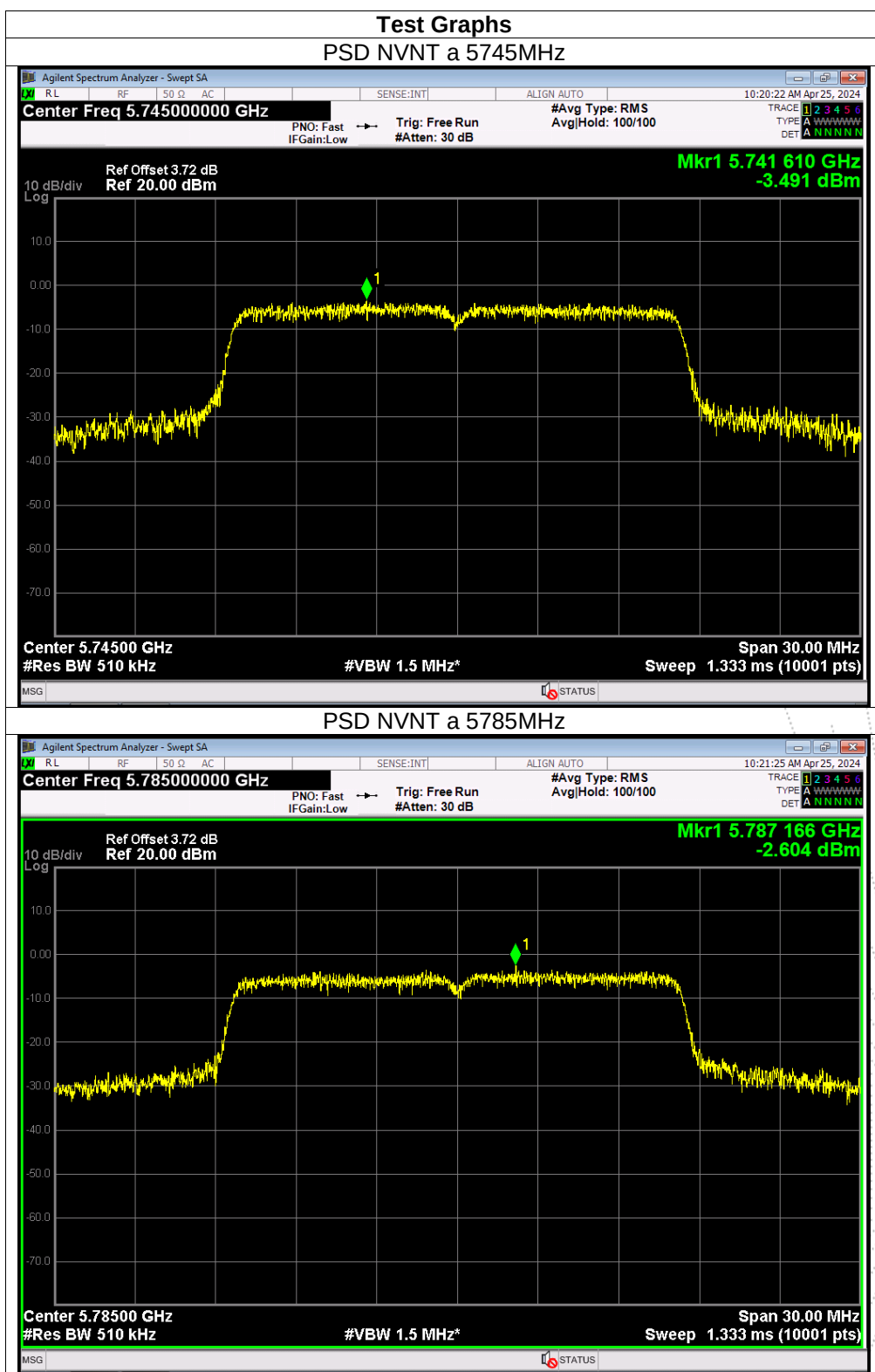
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510KHz)		Conducted PSD (dBm/500KHz)		Total (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
			Ant A	Ant B	Ant A	Ant B			
NVNT	a	5745	-5.08	-3.49	-5.166	-3.576	/	30	Pass
NVNT	a	5785	-5.06	-2.6	-5.146	-2.686	/	30	Pass
NVNT	a	5825	-5.05	-3.53	-5.136	-3.616	/	30	Pass
NVNT	n20	5745	-7.14	-5.55	-7.226	-5.636	-3.35	28.4	Pass
NVNT	n20	5785	-6.37	-5.7	-6.456	-5.786	-3.10	28.4	Pass
NVNT	n20	5825	-6.19	-4.87	-6.276	-4.956	-2.56	28.4	Pass
NVNT	n40	5755	-12.5	-11.31	-12.586	-11.396	-8.94	28.4	Pass
NVNT	n40	5795	-13.34	-10.52	-13.426	-10.606	-8.78	28.4	Pass
NVNT	ac20	5745	-7.96	-5.04	-8.046	-5.126	-3.33	28.4	Pass
NVNT	ac20	5785	-7.9	-5.43	-7.986	-5.516	-3.57	28.4	Pass
NVNT	ac20	5825	-8.23	-5.71	-8.316	-5.796	-3.87	28.4	Pass
NVNT	ac40	5755	-12.87	-12.17	-12.956	-12.256	-9.58	28.4	Pass
NVNT	ac40	5795	-13.65	-11.8	-13.736	-11.886	-9.70	28.4	Pass
NVNT	ac80	5775	-15.04	-19.25	-15.126	-19.336	-13.73	28.4	Pass
Note: Correction Factor = 10log(500KHz/RBW in measurement) =-0.086									

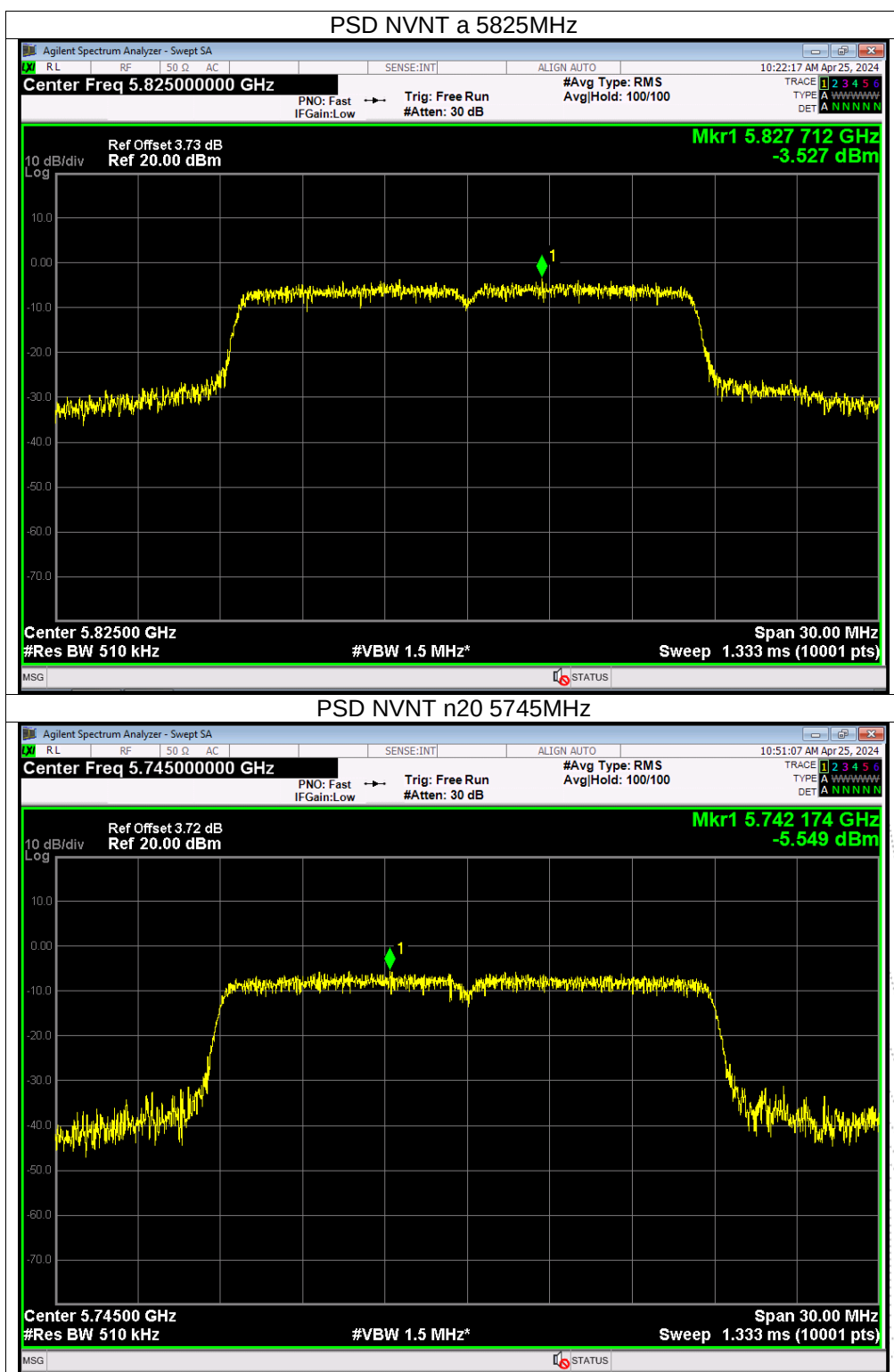
Note:

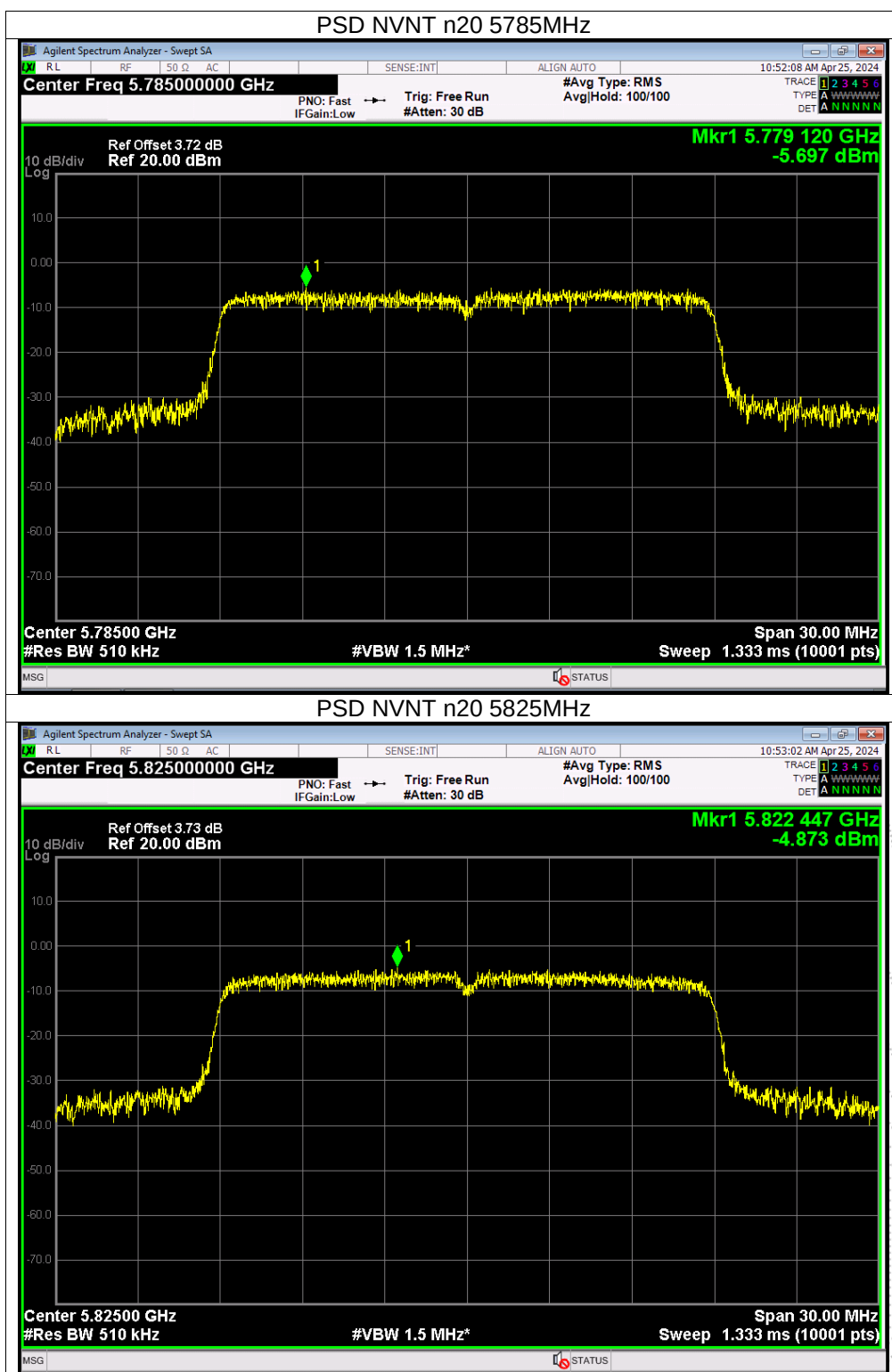
Antenna A gain: 4.59 dBi, Antenna B gain: 2.9 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
=7.6 dBi>6dBi

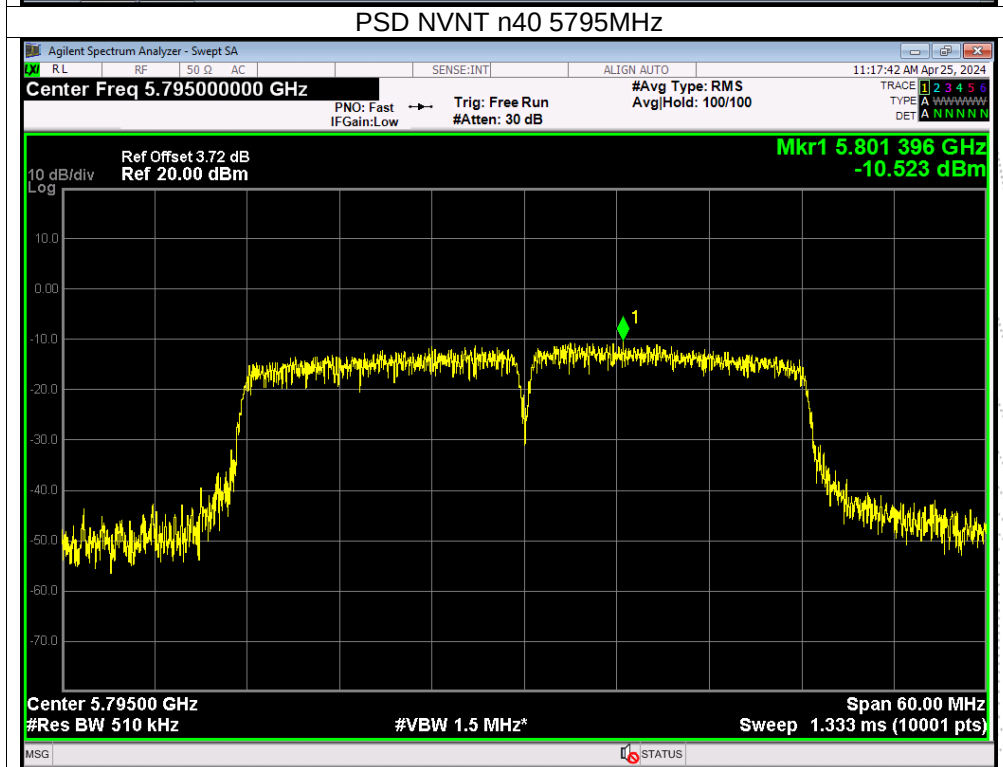
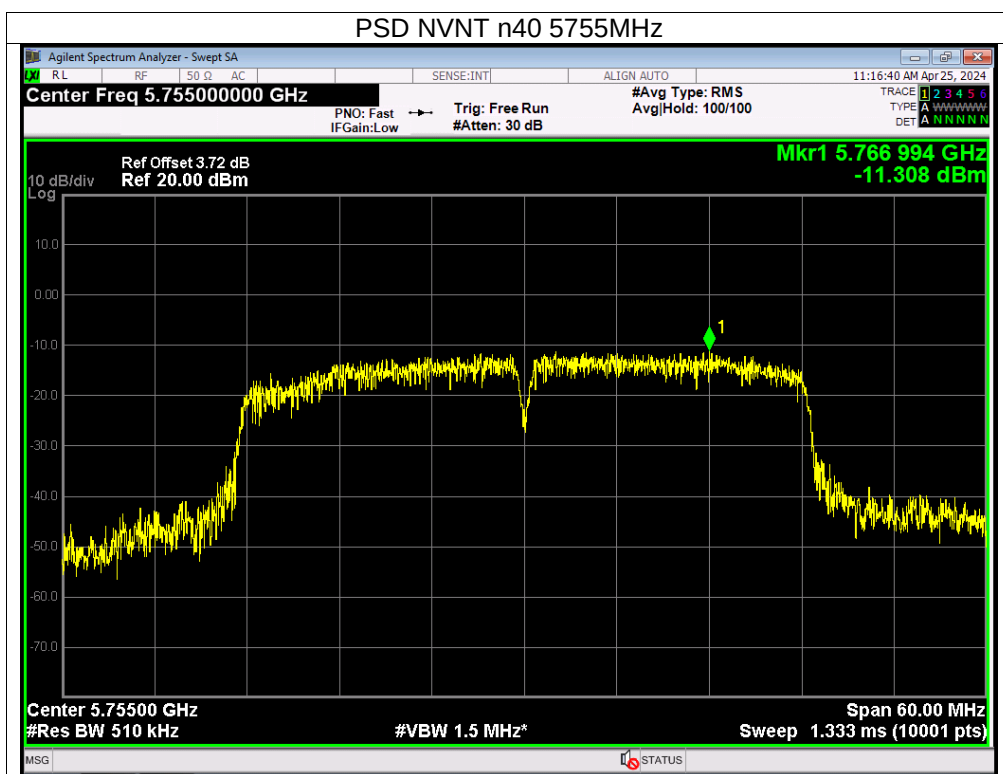
EIRP Limit=30-(7.6-6) =28.4 dBi

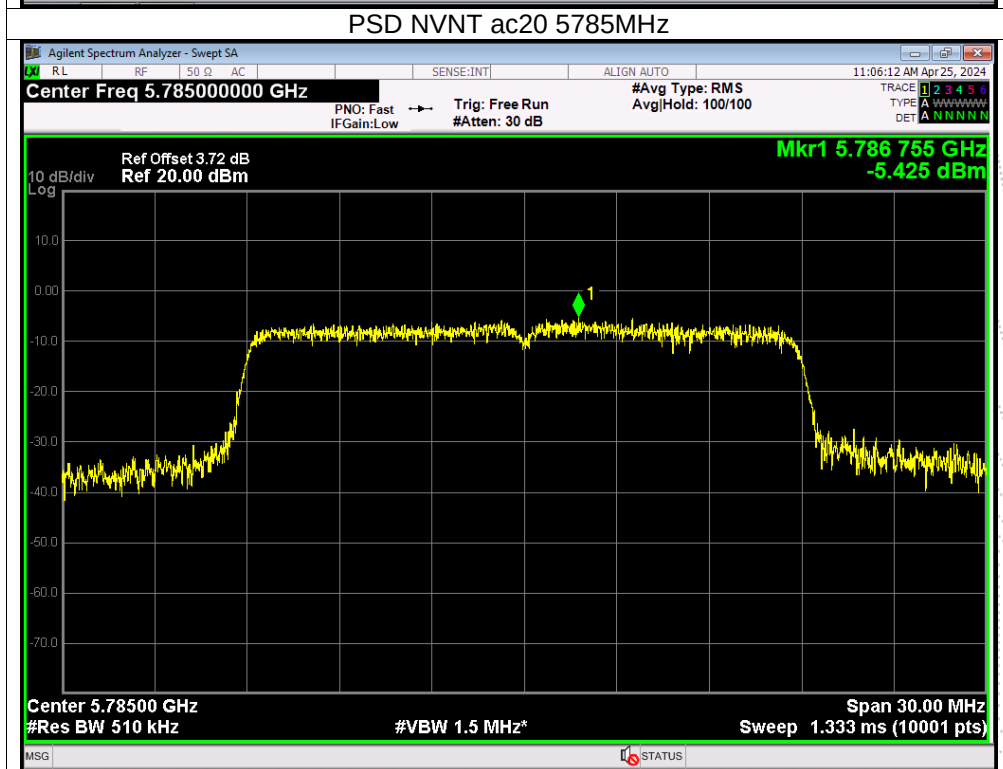
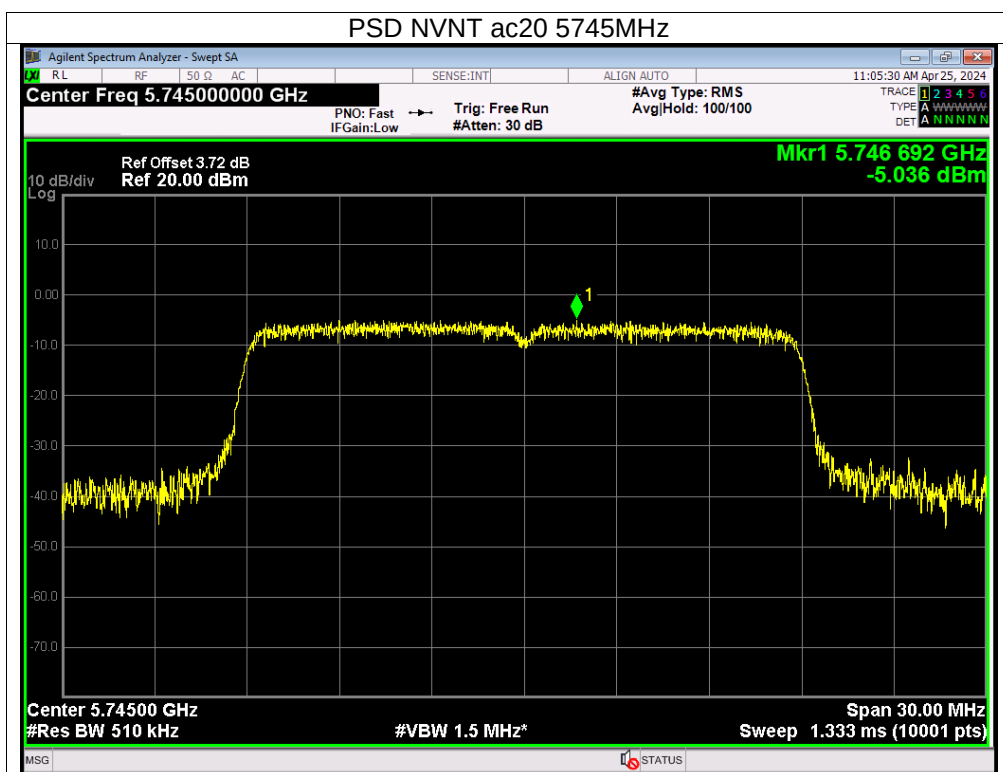
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

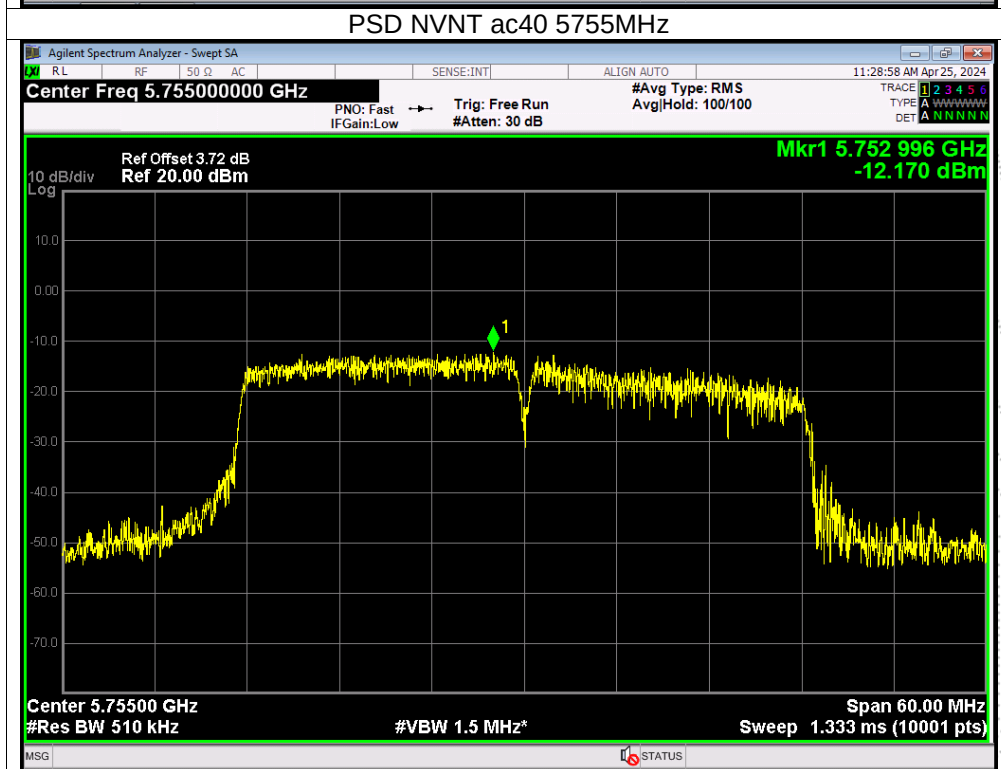
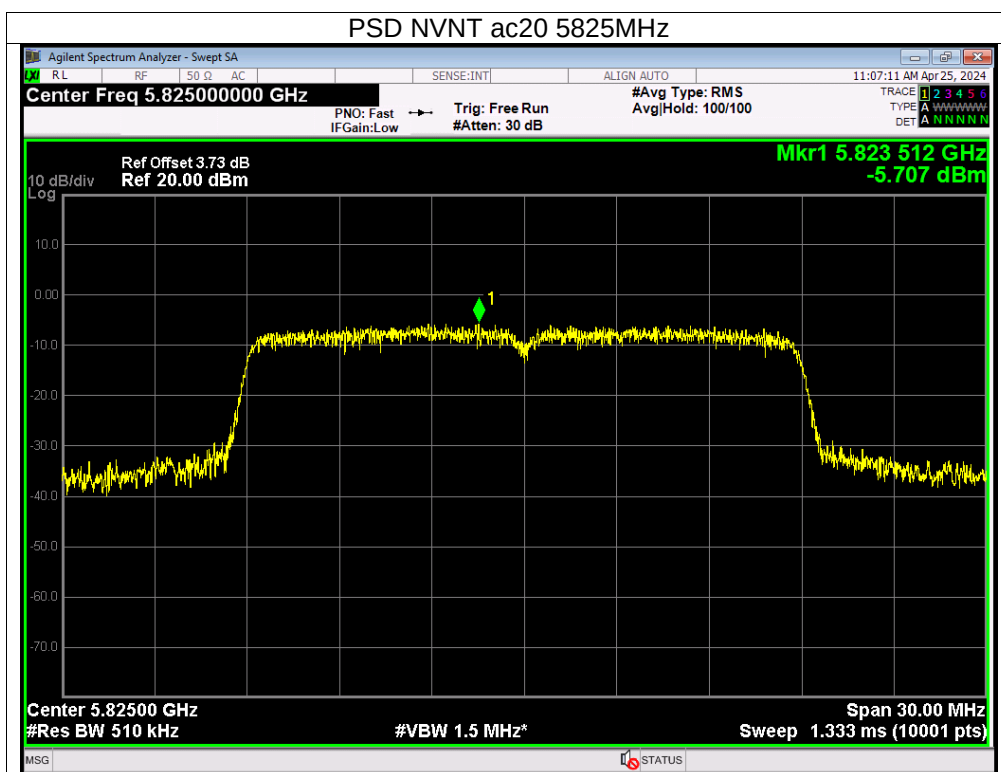




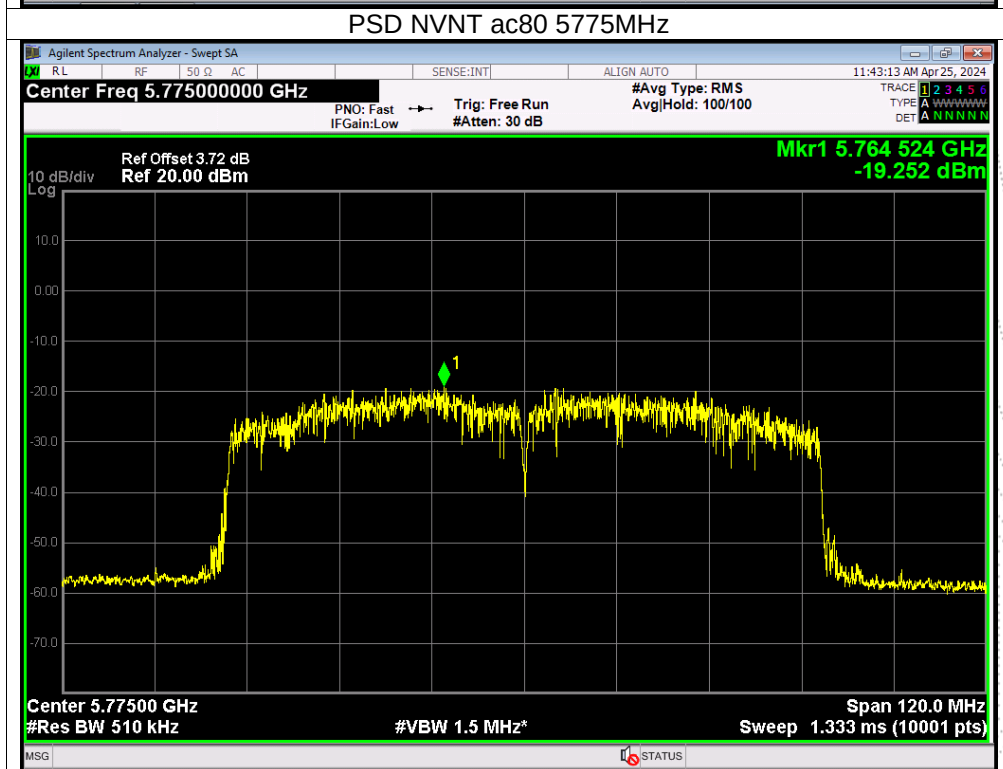
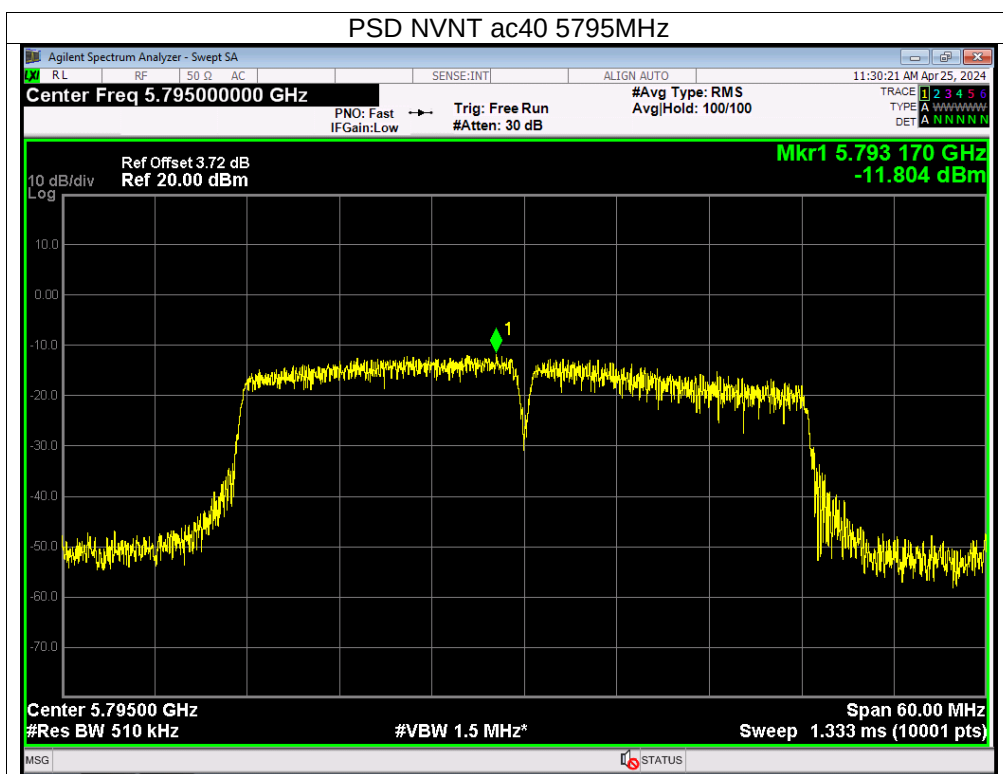






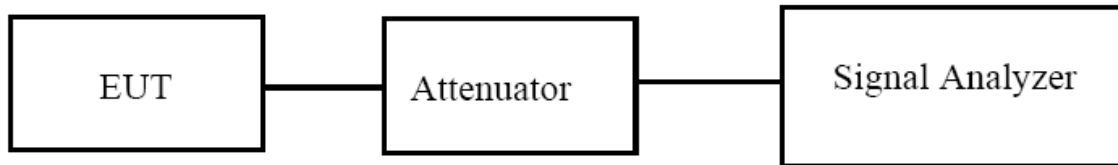


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9. 26dB & 6dB & 99% Emission Bandwidth

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%.

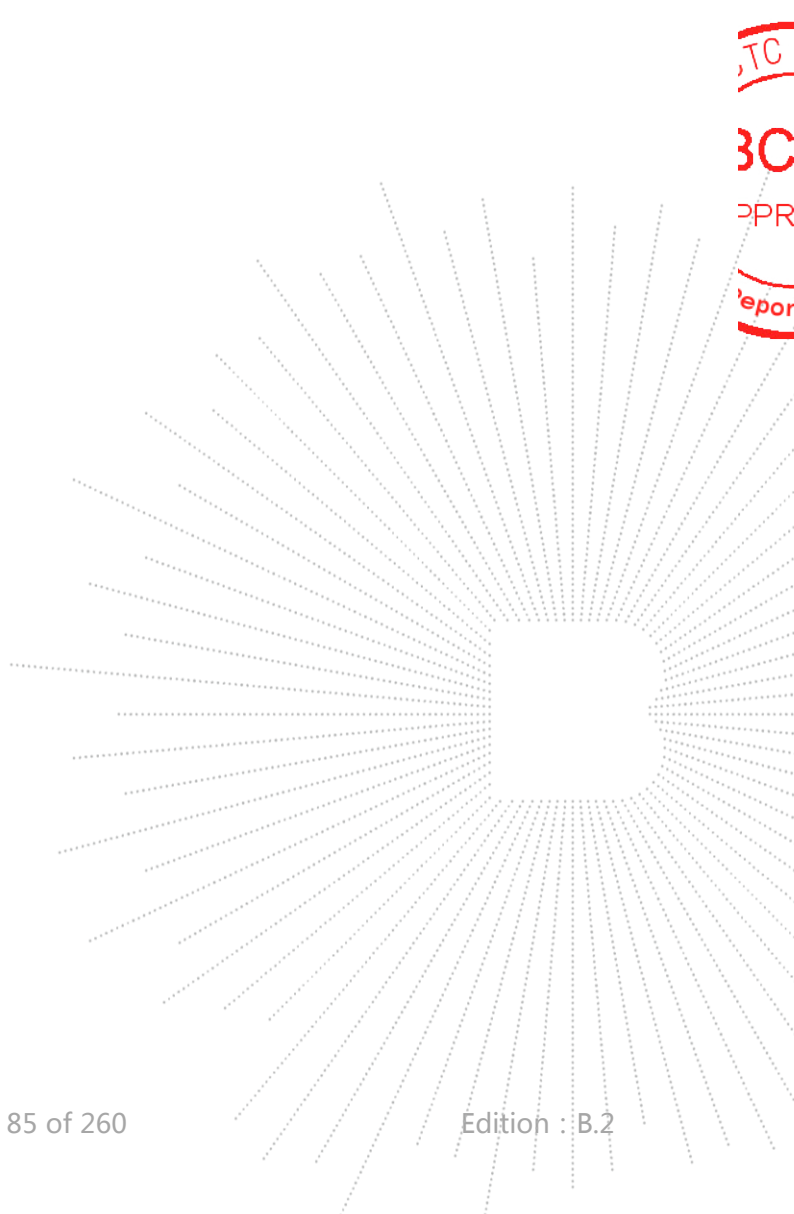
The following procedure shall be used for measuring (99 %) power bandwidth:

- 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.

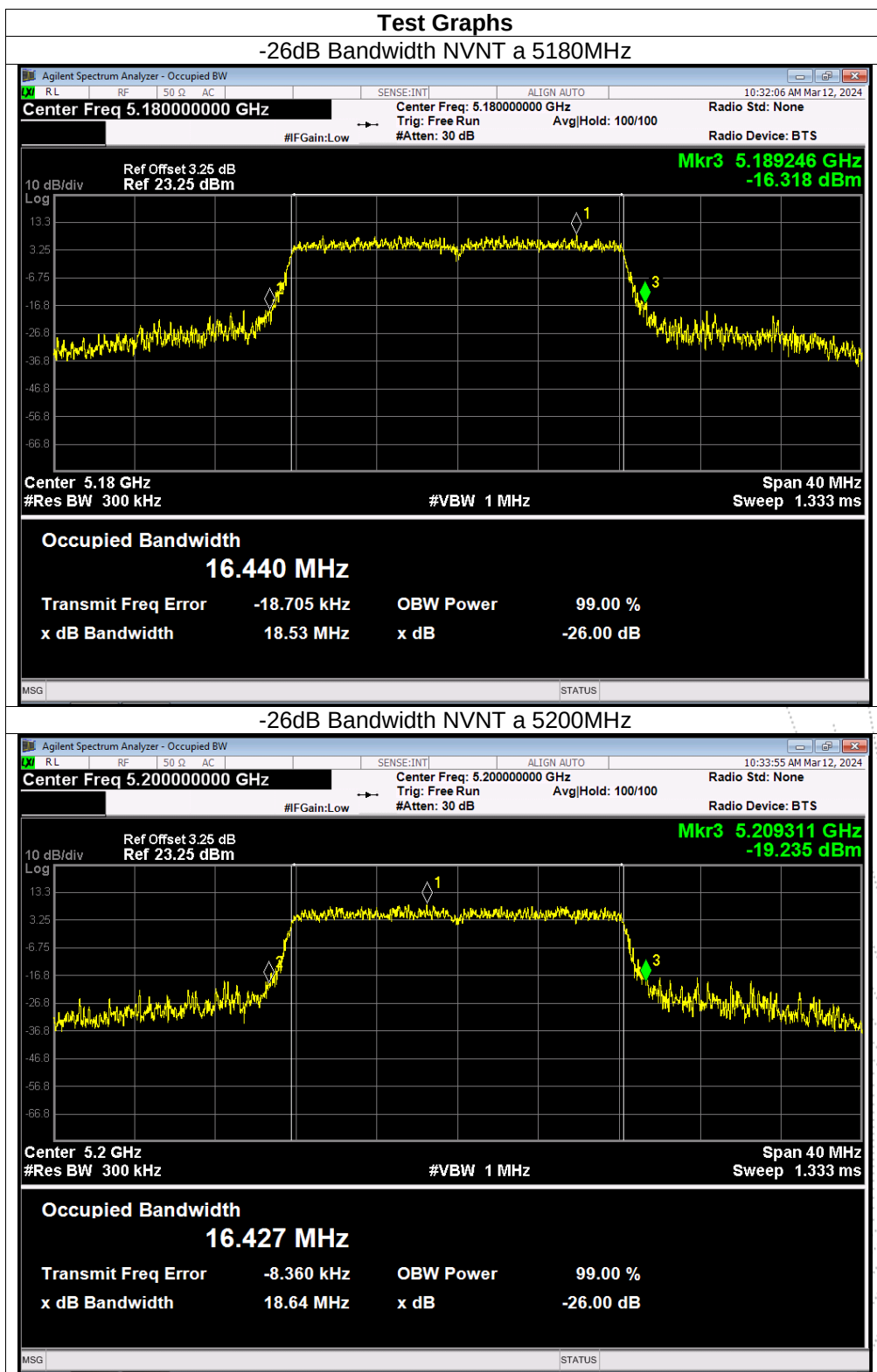


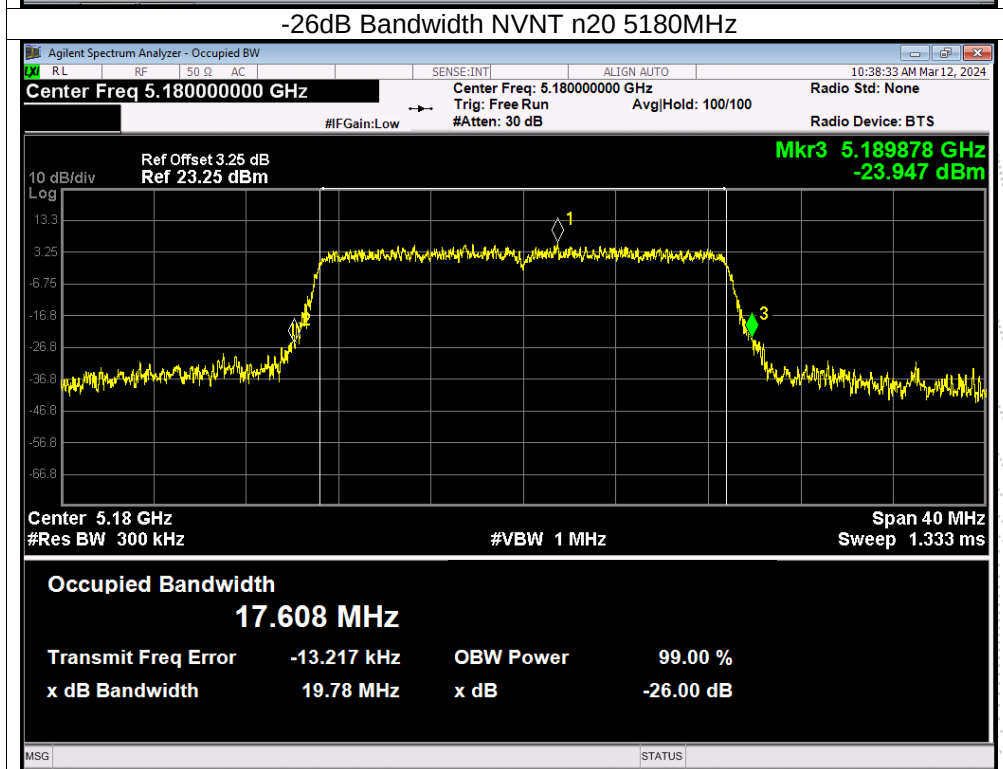
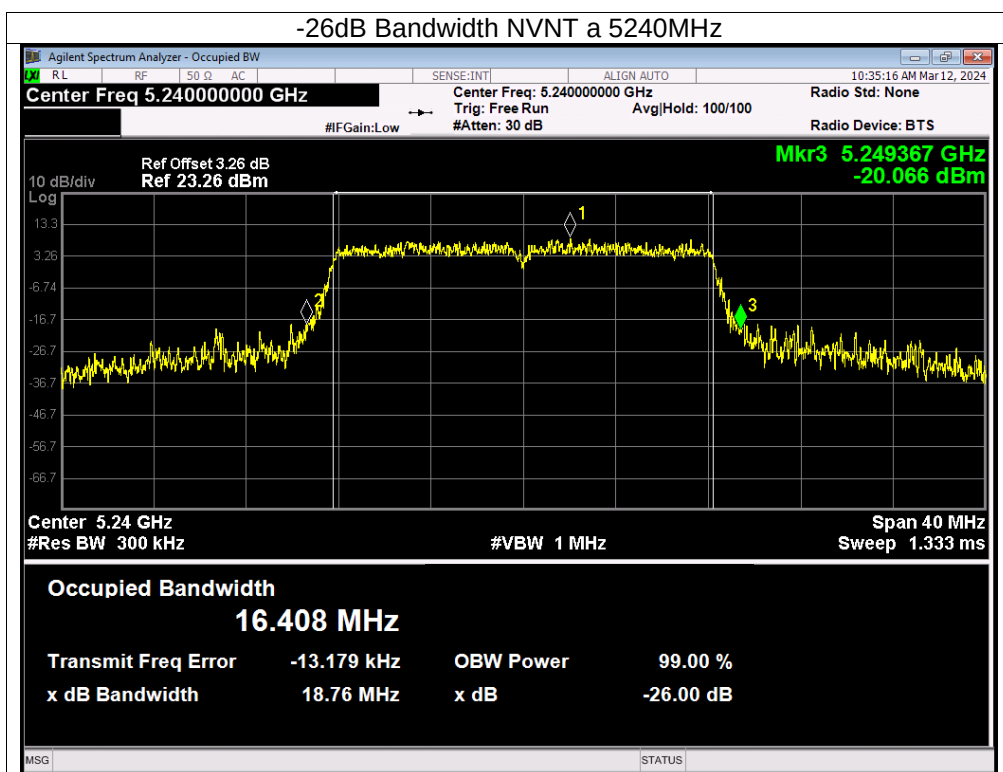
9.5 Test Result

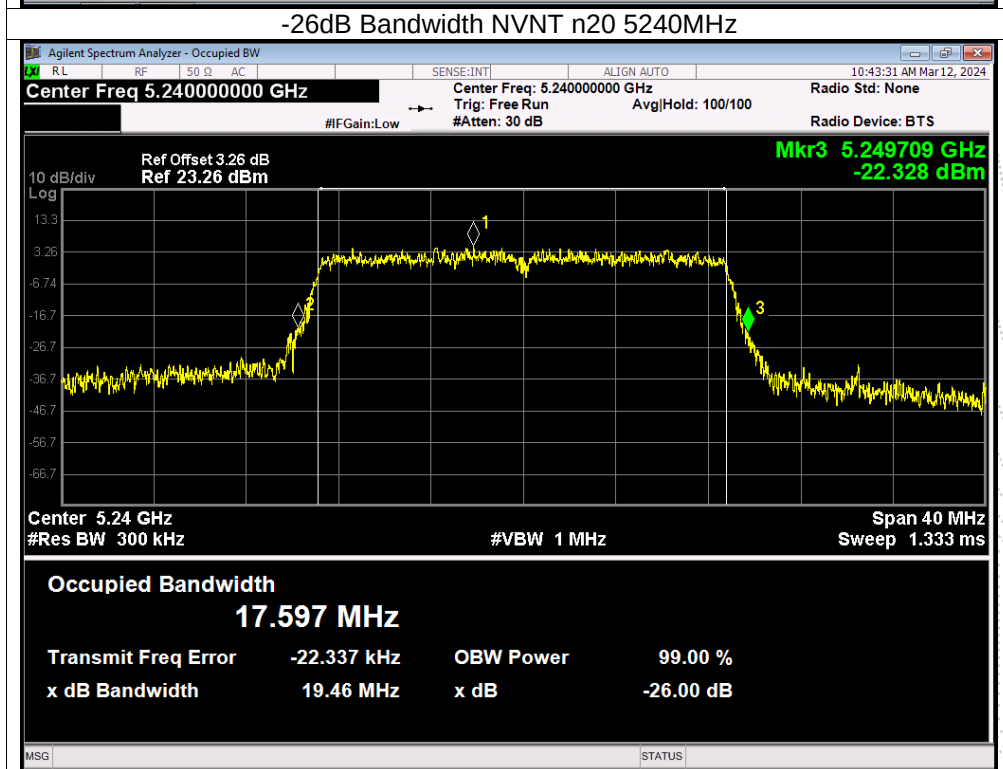
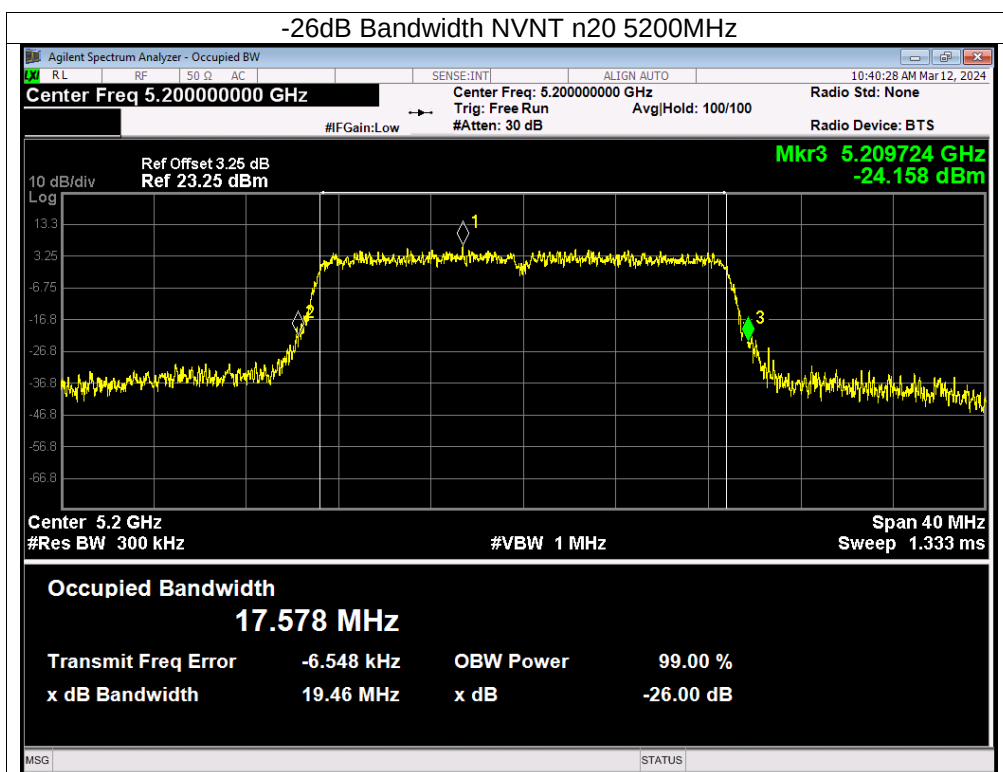
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5180-5240MHz)		

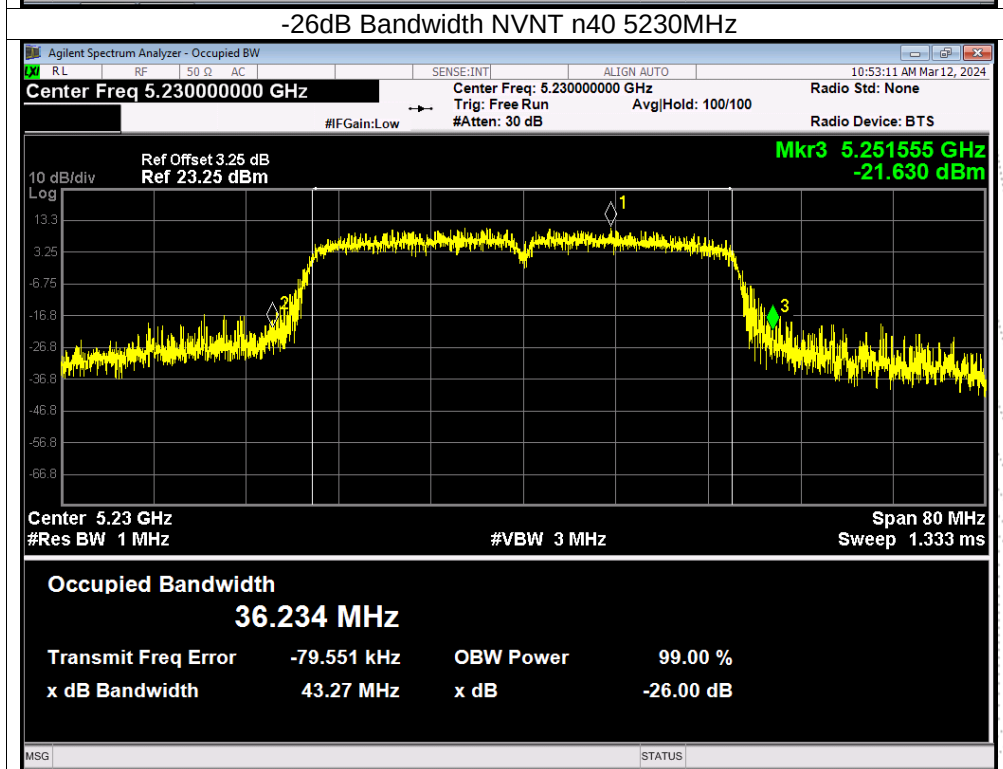
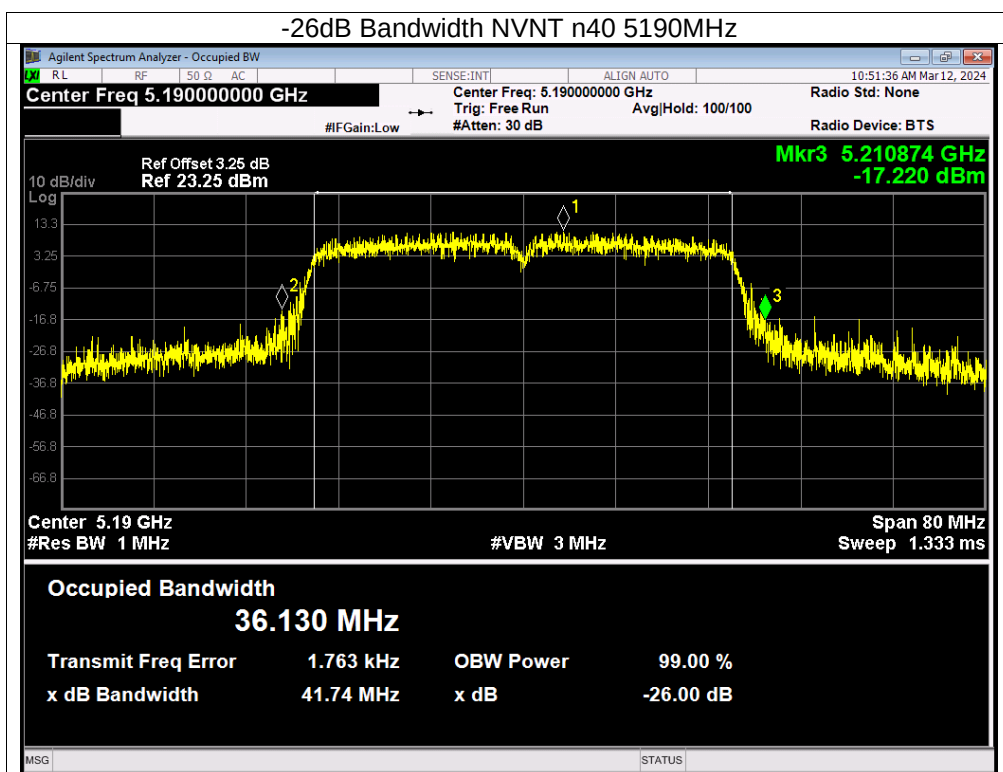
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)		99% OBW (MHz)		Verdict
			Ant A	Ant B	Ant A	Ant B	
NVNT	a	5180	18.313	18.529	16.366	16.397	Pass
NVNT	a	5200	18.307	18.639	16.362	16.373	Pass
NVNT	a	5240	18.427	18.761	16.377	16.381	Pass
NVNT	n20	5180	19.487	19.782	17.553	17.572	Pass
NVNT	n20	5200	19.464	19.461	17.56	17.543	Pass
NVNT	n20	5240	19.515	19.463	17.565	17.592	Pass
NVNT	n40	5190	41.28	41.745	36.015	35.987	Pass
NVNT	n40	5230	41.308	43.269	36.032	35.953	Pass
NVNT	ac20	5180	19.259	19.664	17.548	17.549	Pass
NVNT	ac20	5200	19.606	19.417	17.572	17.544	Pass
NVNT	ac20	5240	19.6	19.56	17.574	17.556	Pass
NVNT	ac40	5190	42.016	44.562	35.981	36.02	Pass
NVNT	ac40	5230	41.628	42.09	35.974	36.075	Pass
NVNT	ac80	5210	79.546	79.712	74.559	74.37	Pass

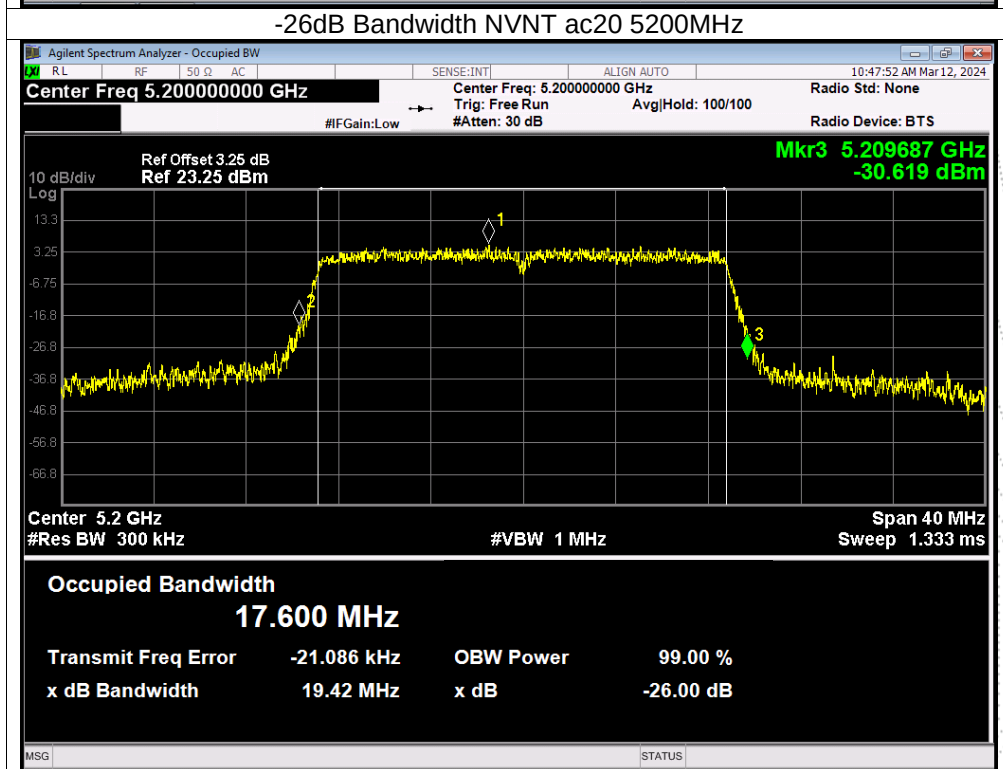
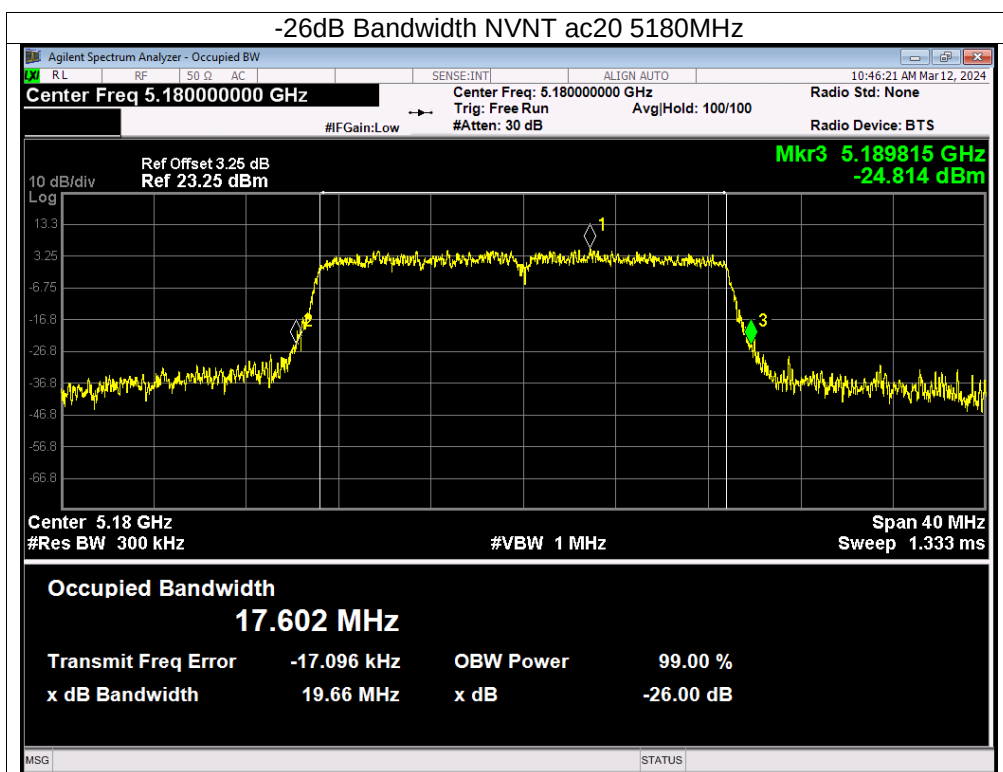
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

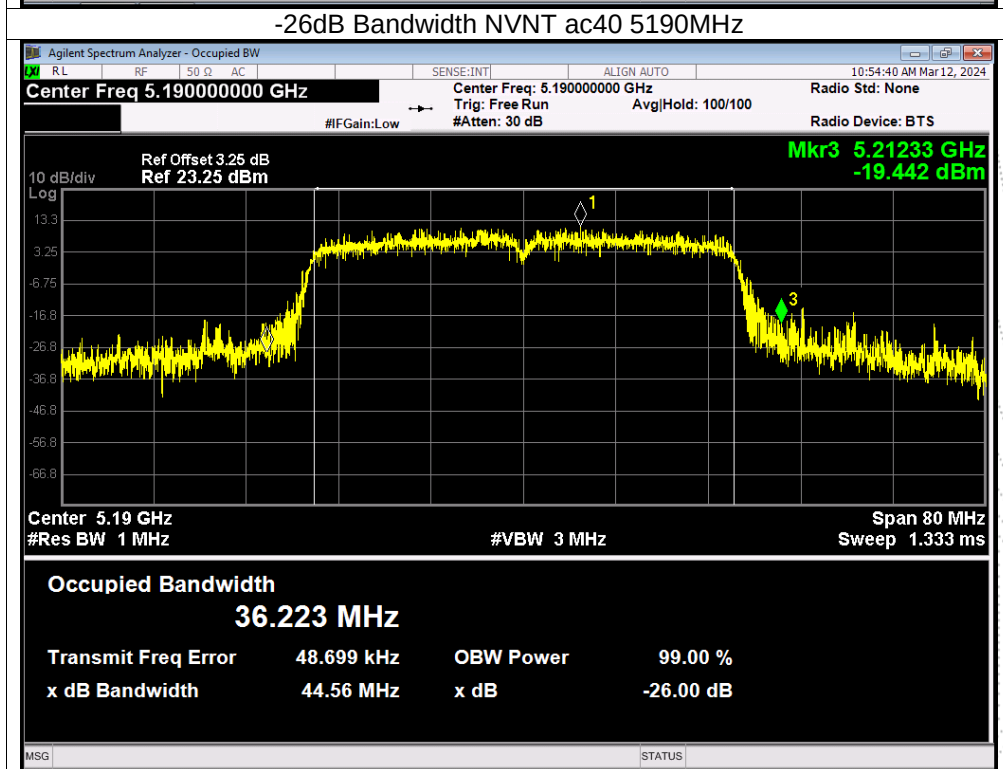
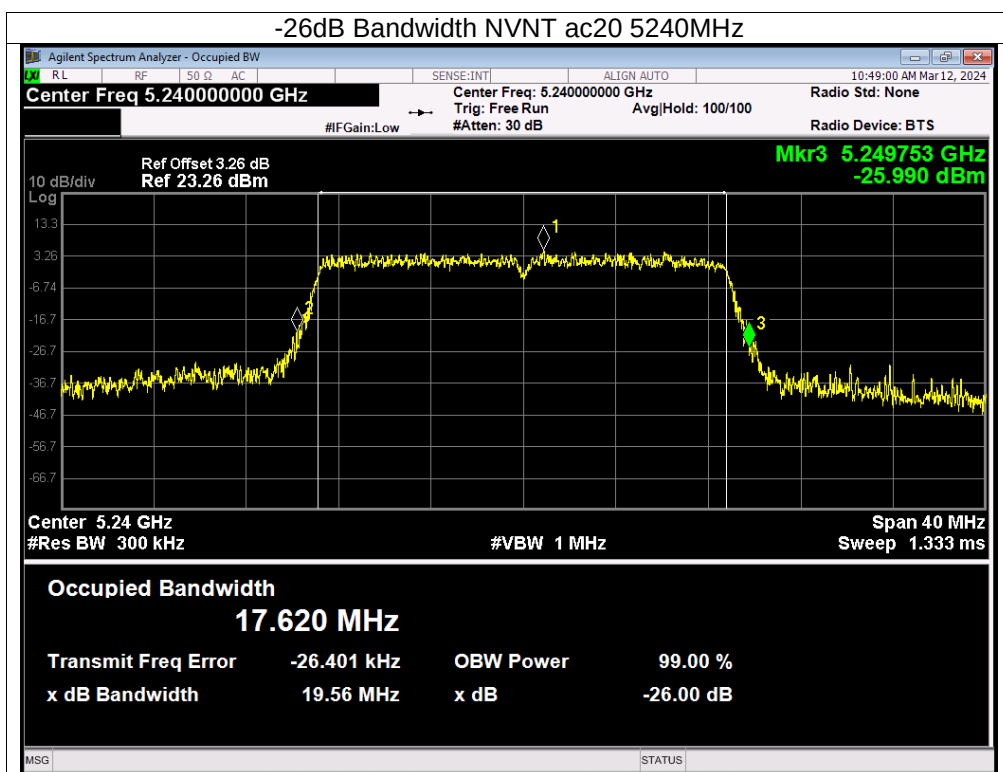


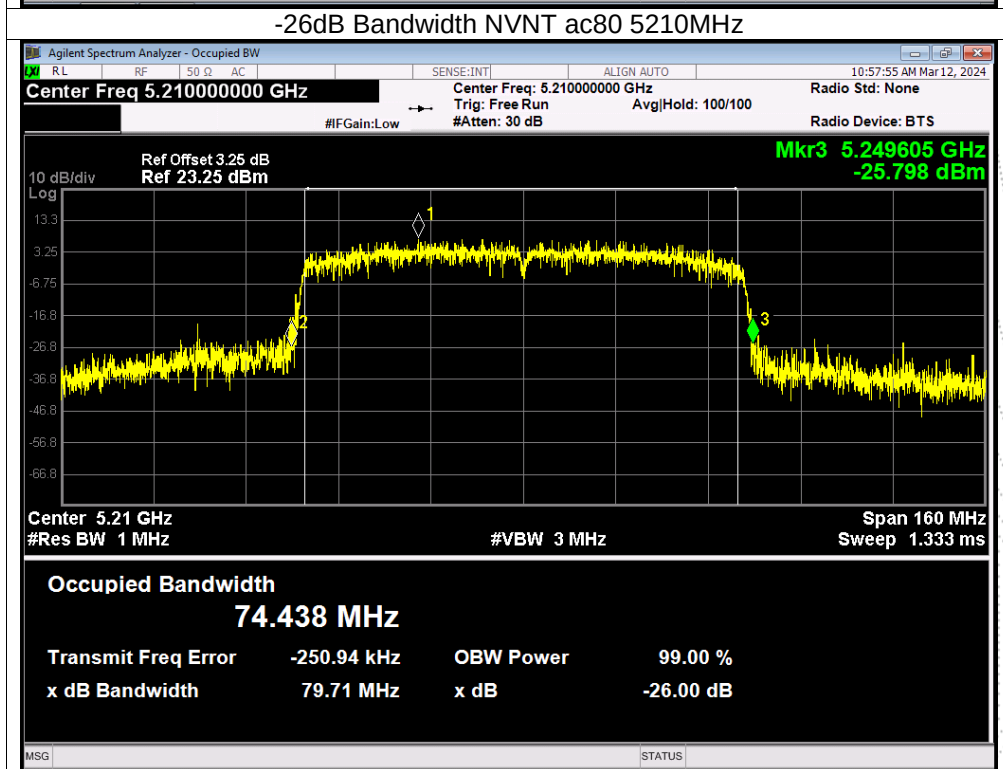
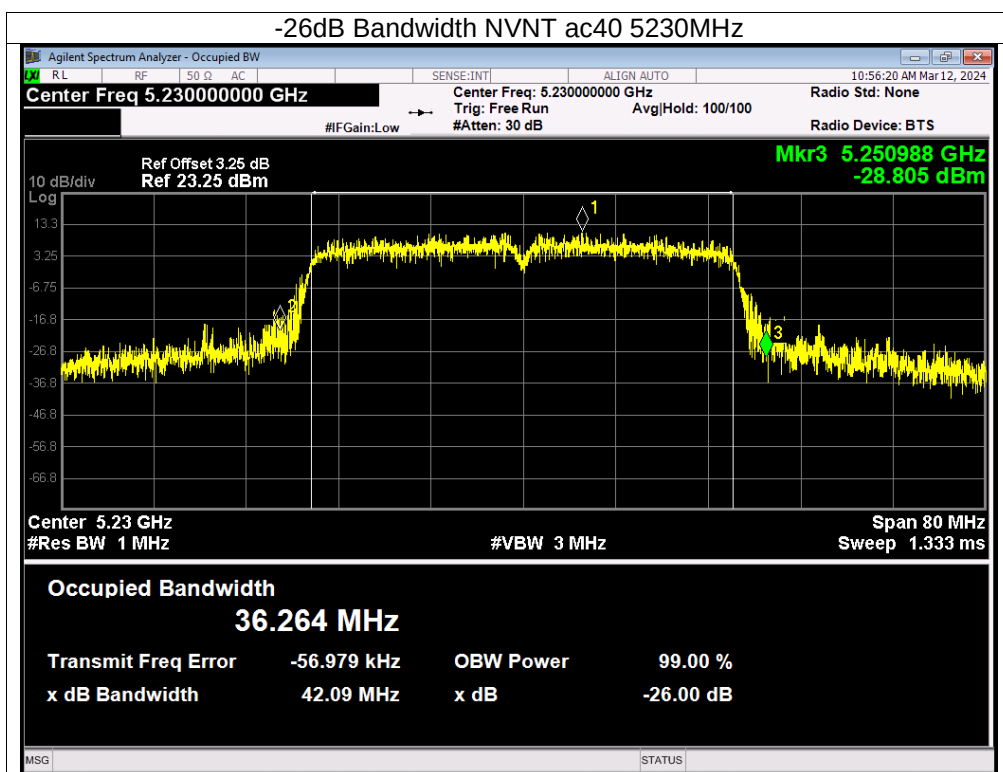




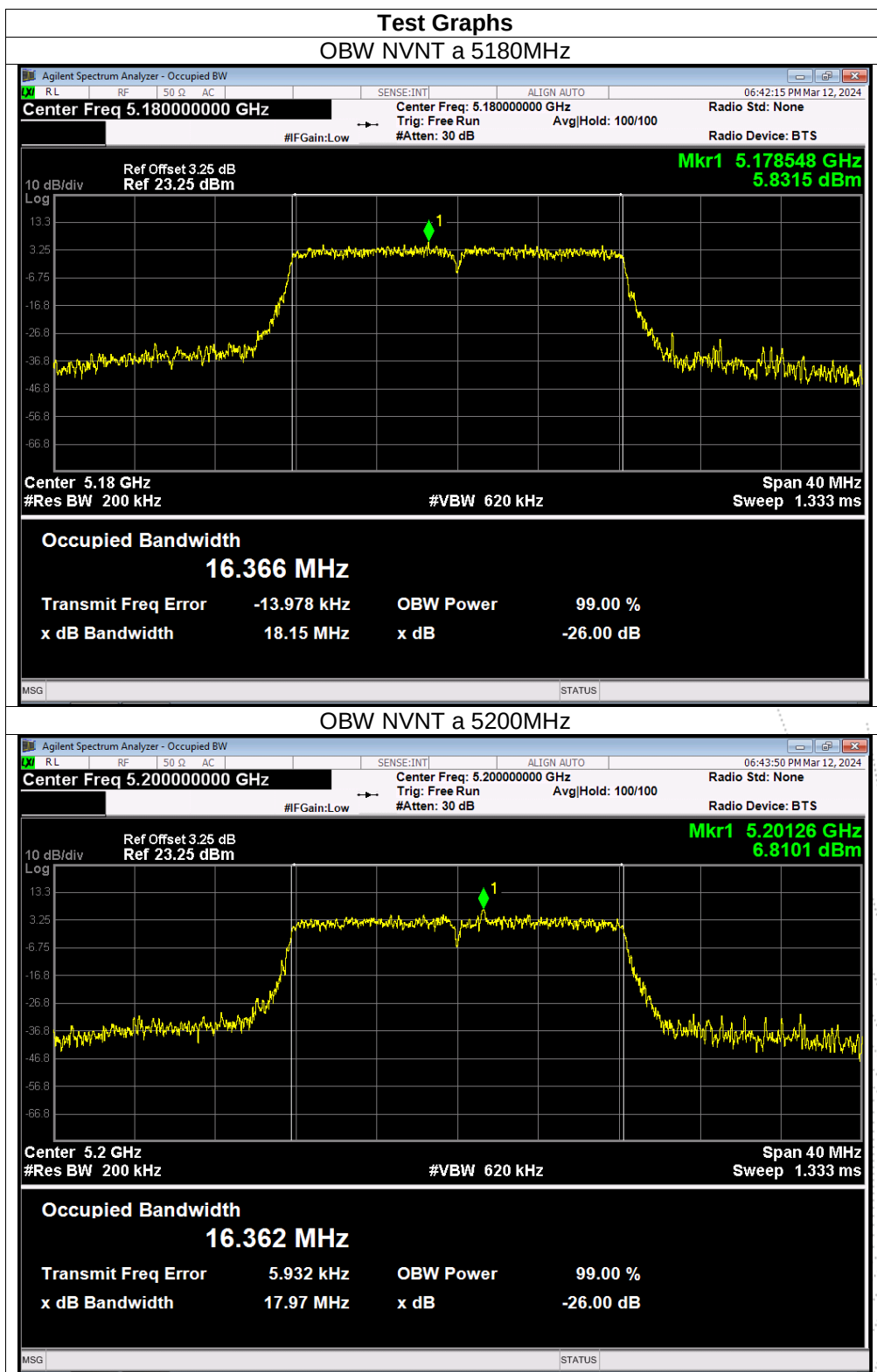


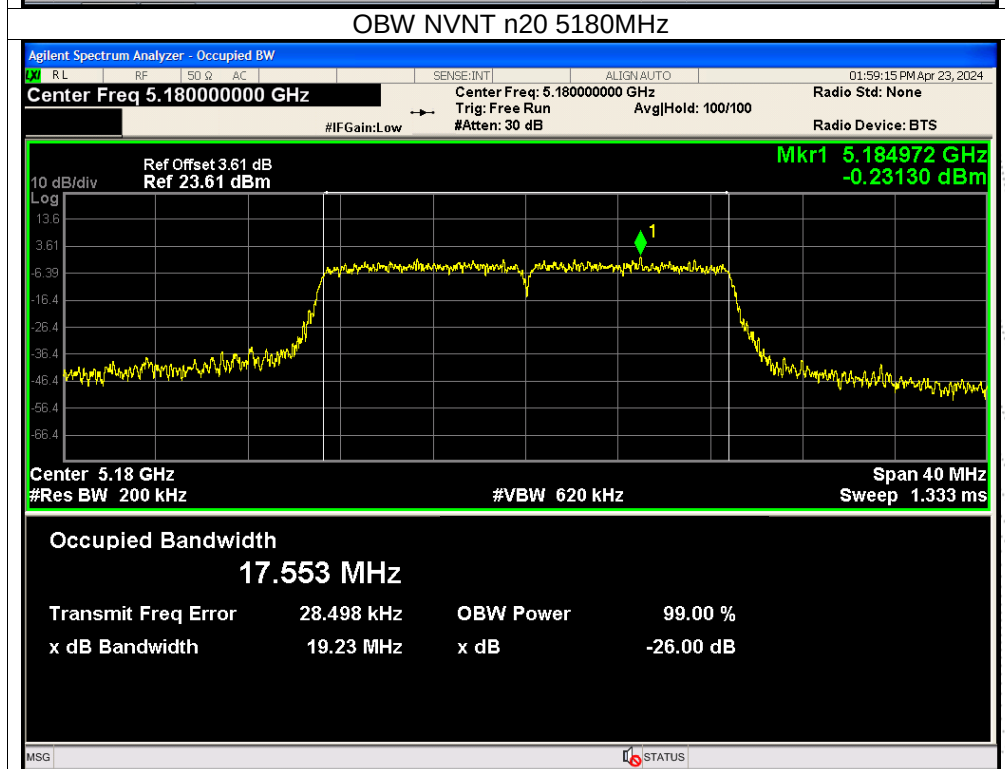
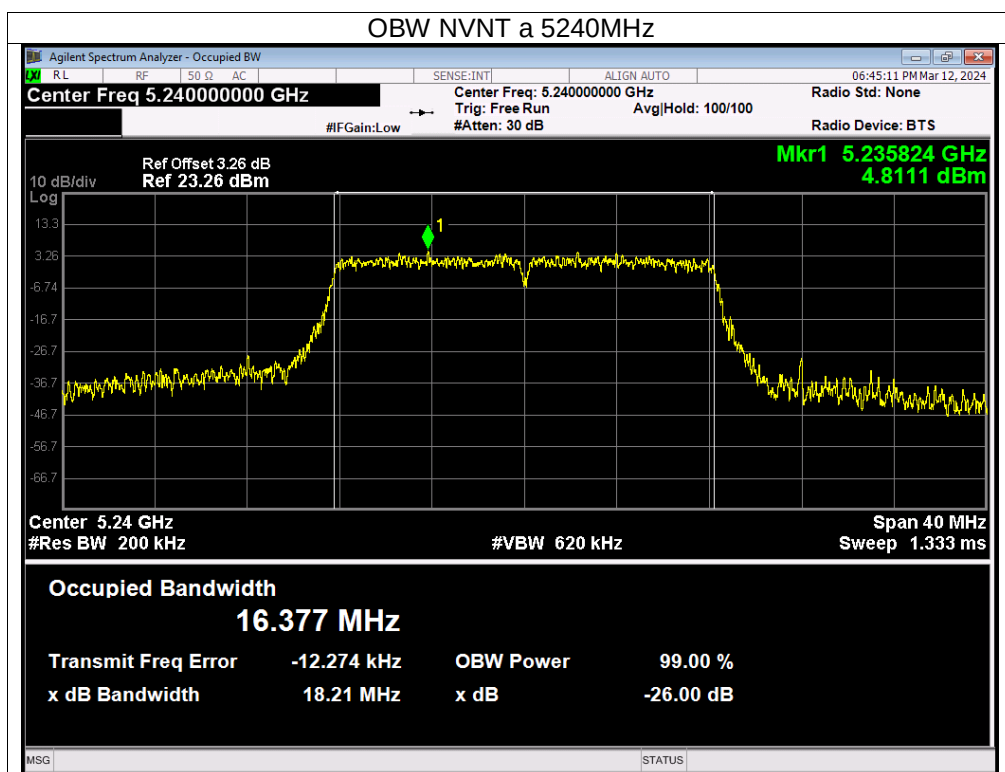




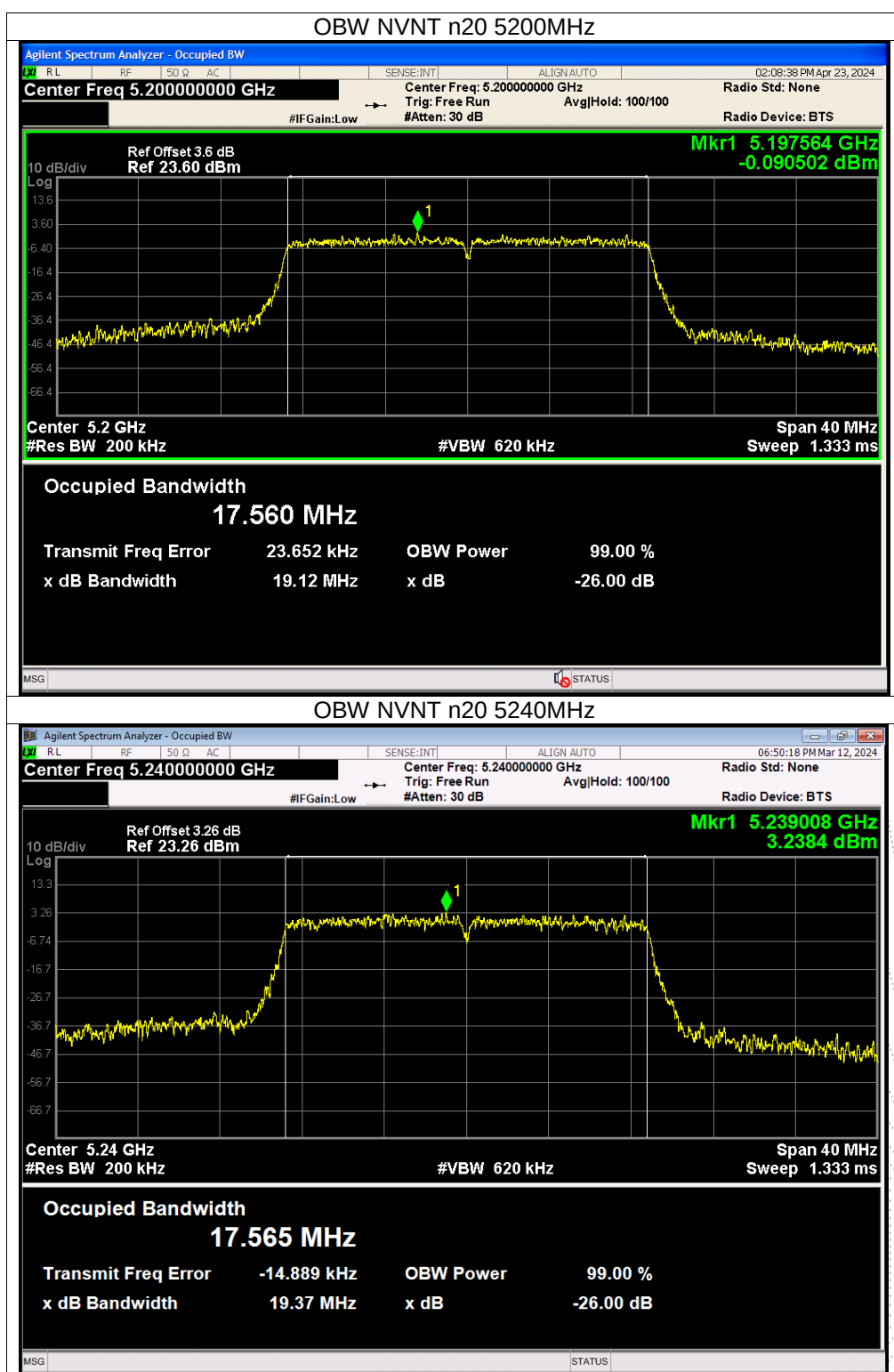


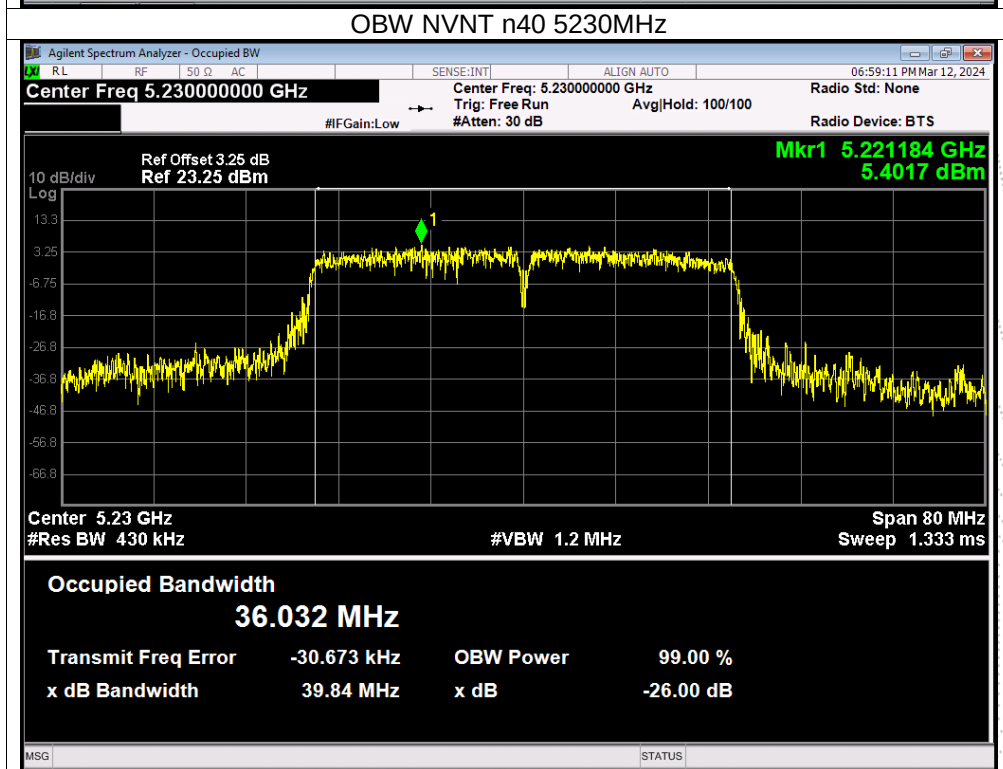
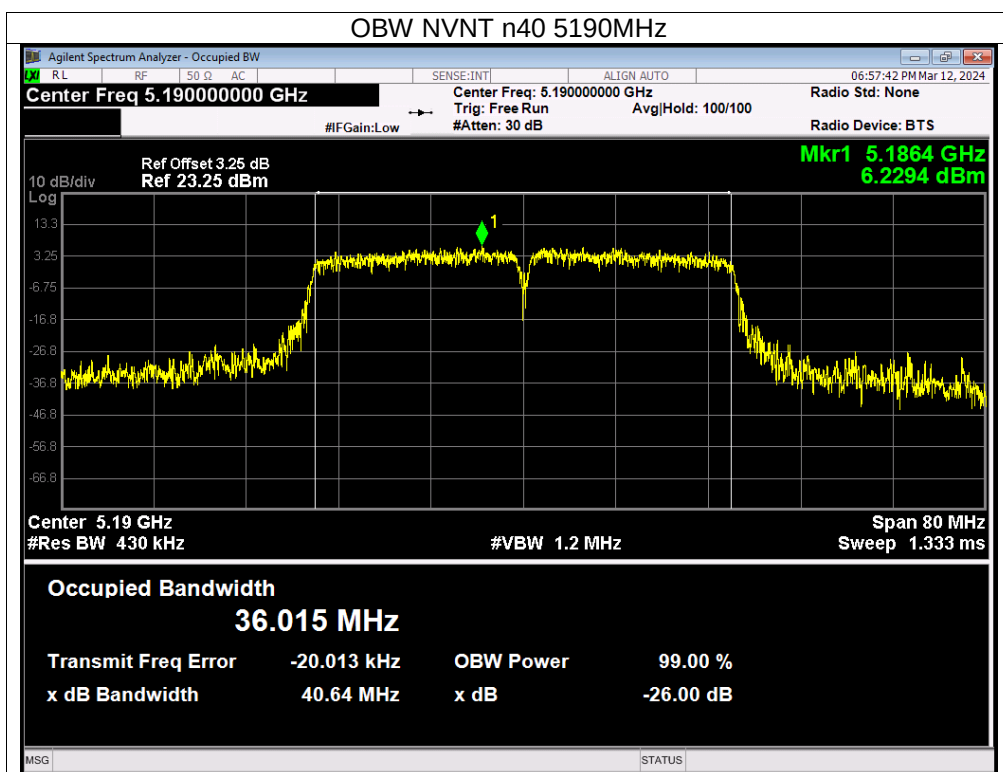
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.





SHENZHEN





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