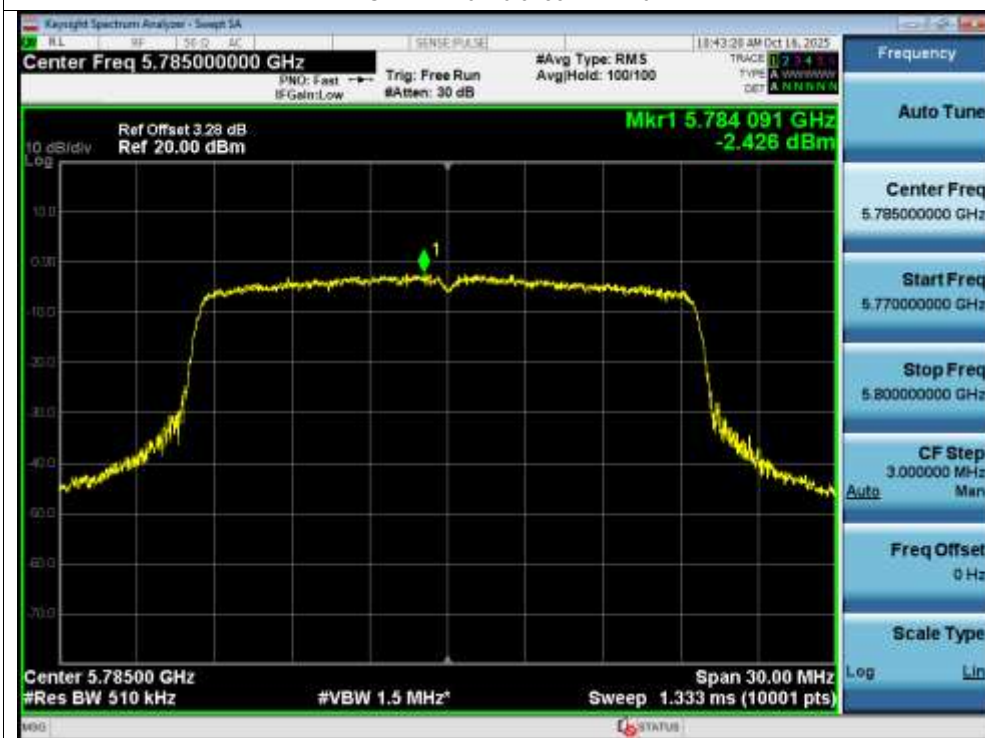
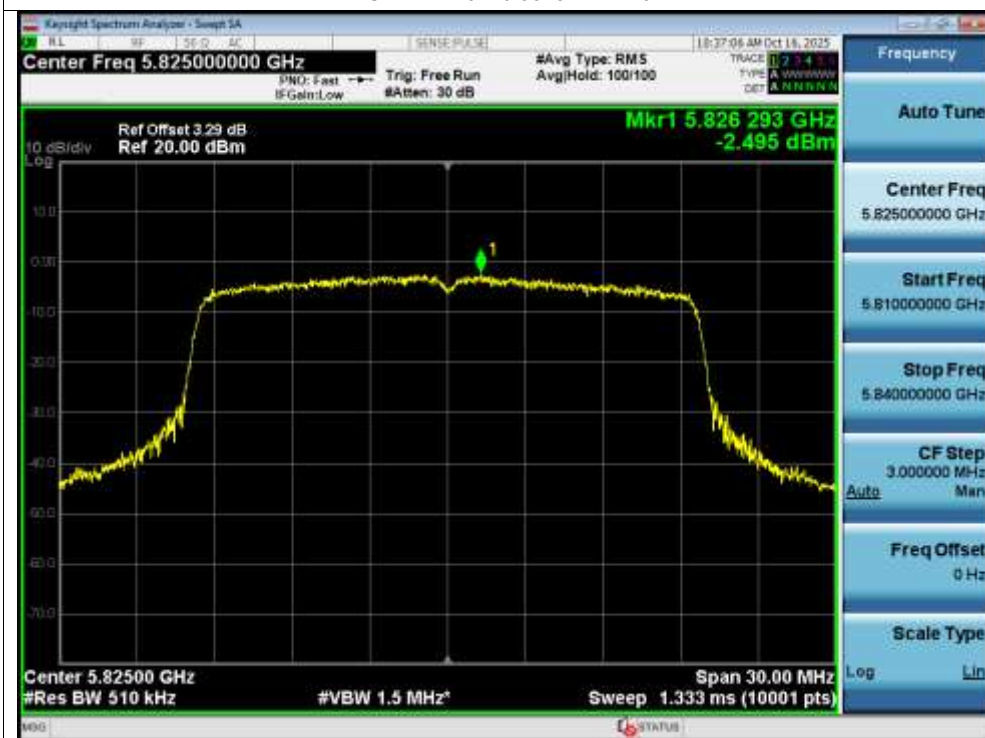


PSD NVNT ax20 5785MHz Ant1



PSD NVNT ax20 5825MHz Ant1



PSD NVNT ax40 5755MHz Ant1

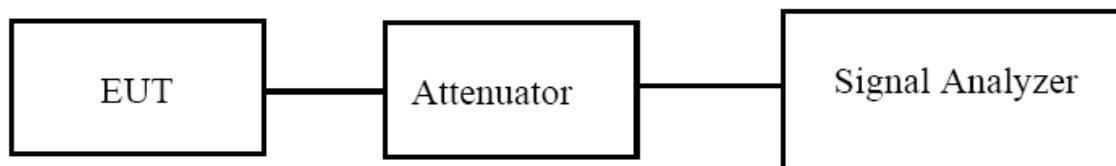


PSD NVNT ax40 5795MHz Ant1



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

- 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%.

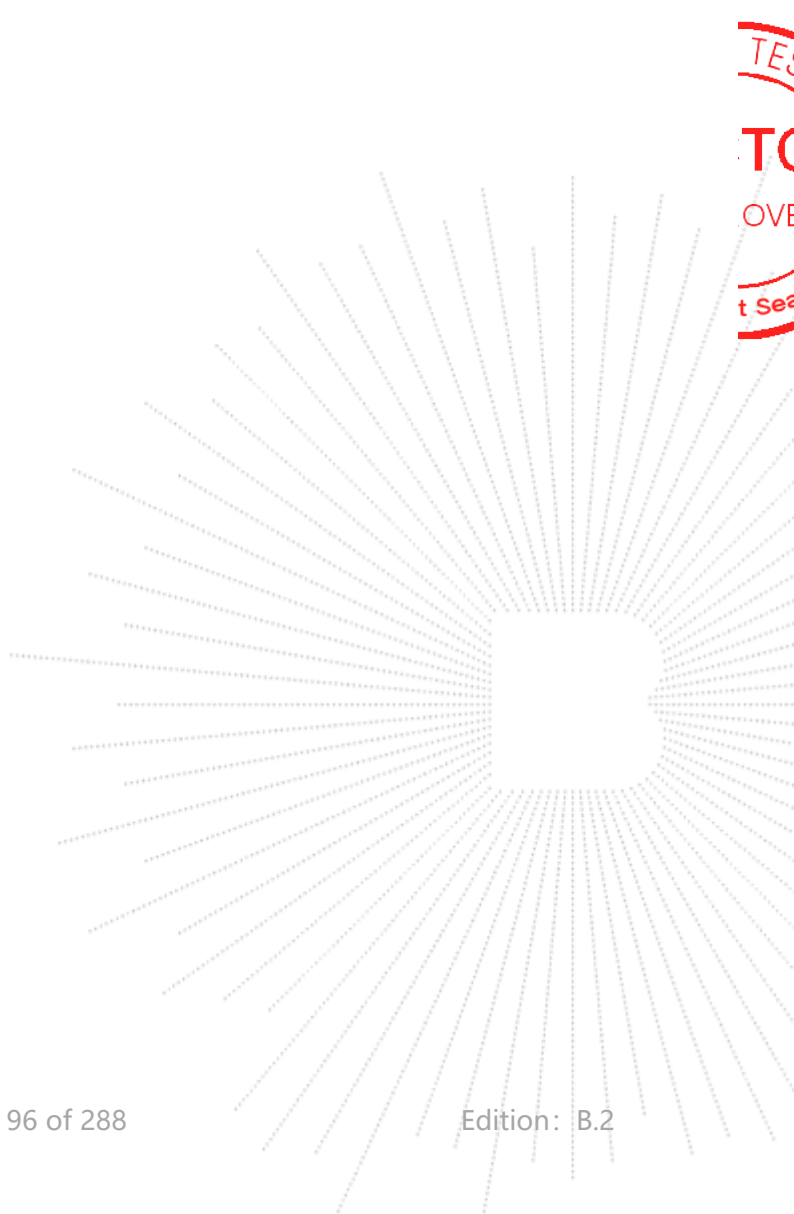
The following procedure shall be used for measuring (99 %) power bandwidth:

- 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%RH
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5180-5240MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.405	19.721	Pass
NVNT	a	5200	16.392	20.213	Pass
NVNT	a	5240	16.409	19.974	Pass
NVNT	n20	5180	17.608	20.905	Pass
NVNT	n20	5200	17.59	20.711	Pass
NVNT	n20	5240	17.588	20.882	Pass
NVNT	n40	5190	35.862	38.295	Pass
NVNT	n40	5230	35.852	38.192	Pass
NVNT	ac20	5180	17.661	20.725	Pass
NVNT	ac20	5200	17.672	20.678	Pass
NVNT	ac20	5240	17.667	20.699	Pass
NVNT	ac40	5190	35.876	38.147	Pass
NVNT	ac40	5230	35.879	38.265	Pass
NVNT	ax20	5180	18.917	21.003	Pass
NVNT	ax20	5200	18.921	21.226	Pass
NVNT	ax20	5240	18.927	21.266	Pass
NVNT	ax40	5190	37.631	39.176	Pass
NVNT	ax40	5230	37.546	39.208	Pass

Test Graphs

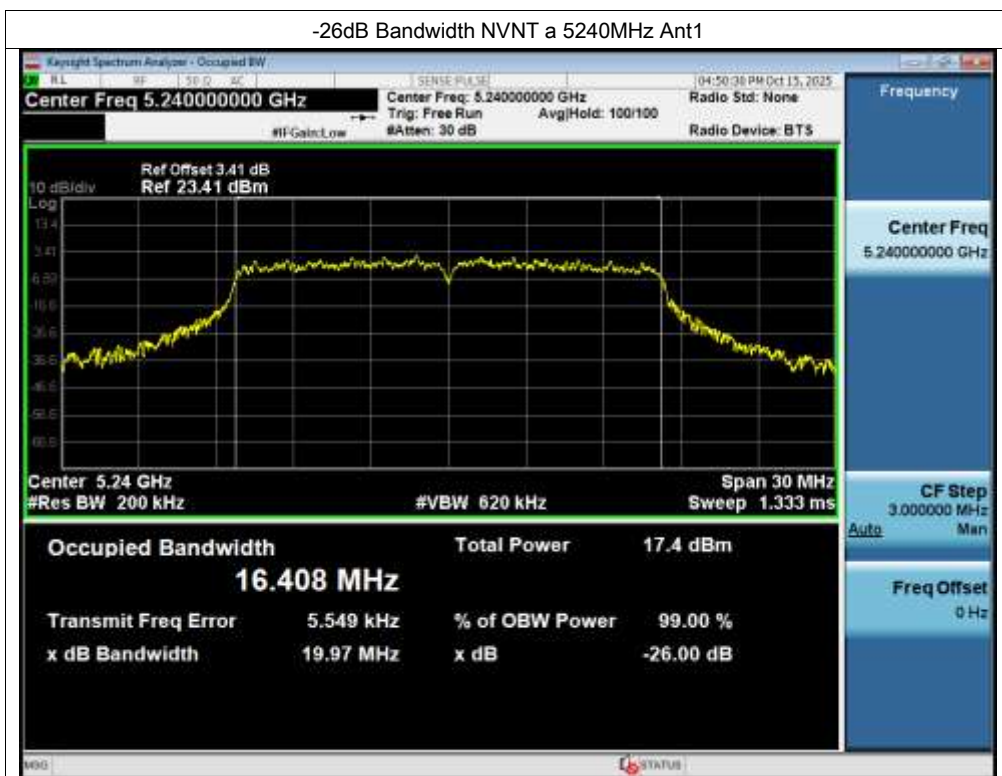
-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



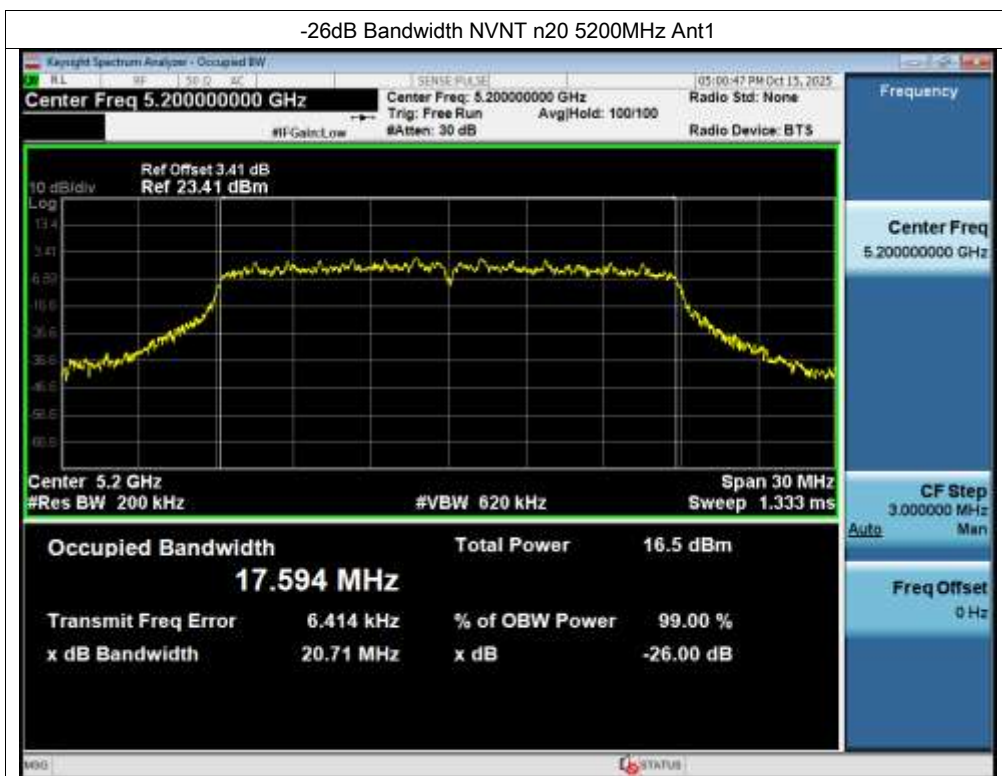
-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



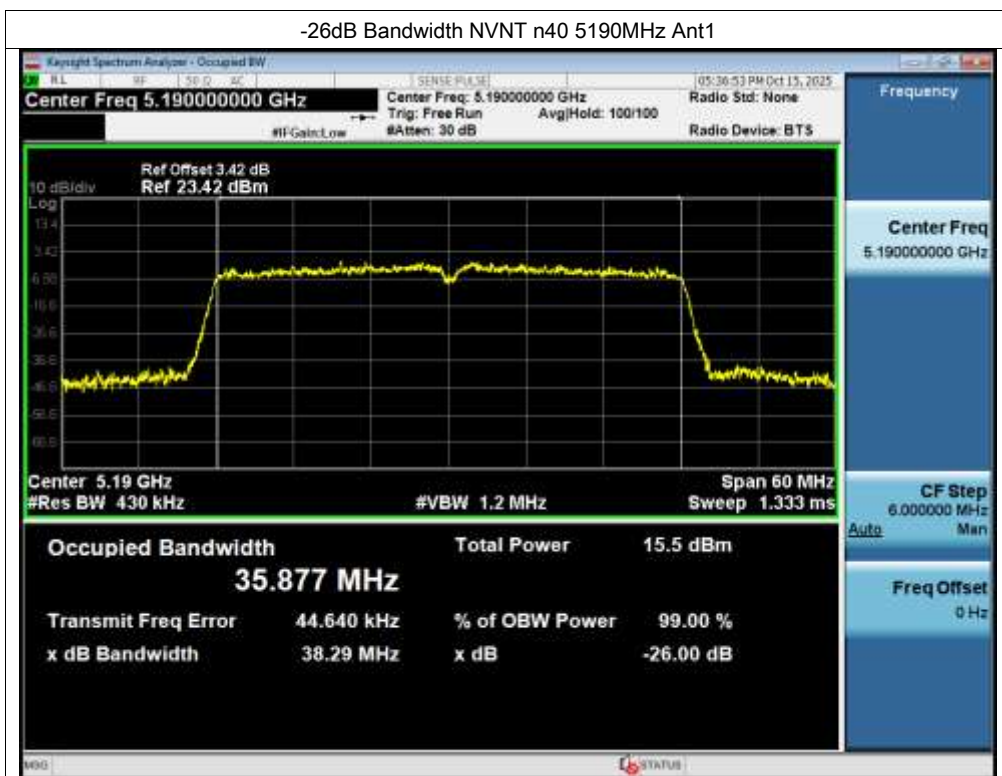
-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



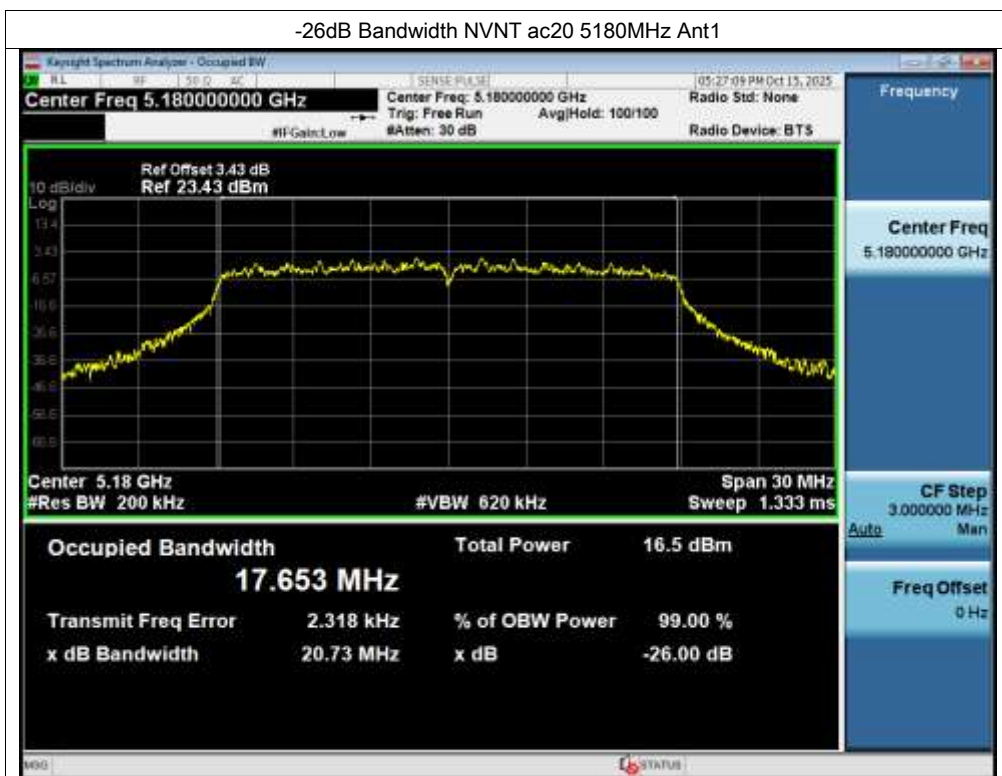
-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



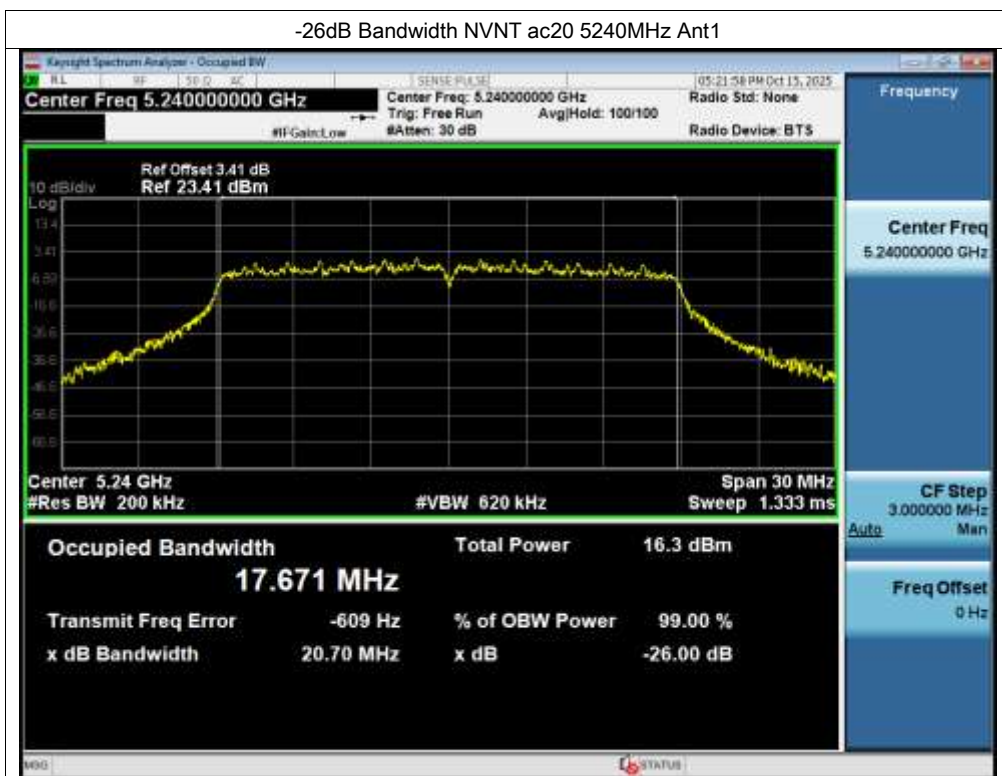
-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



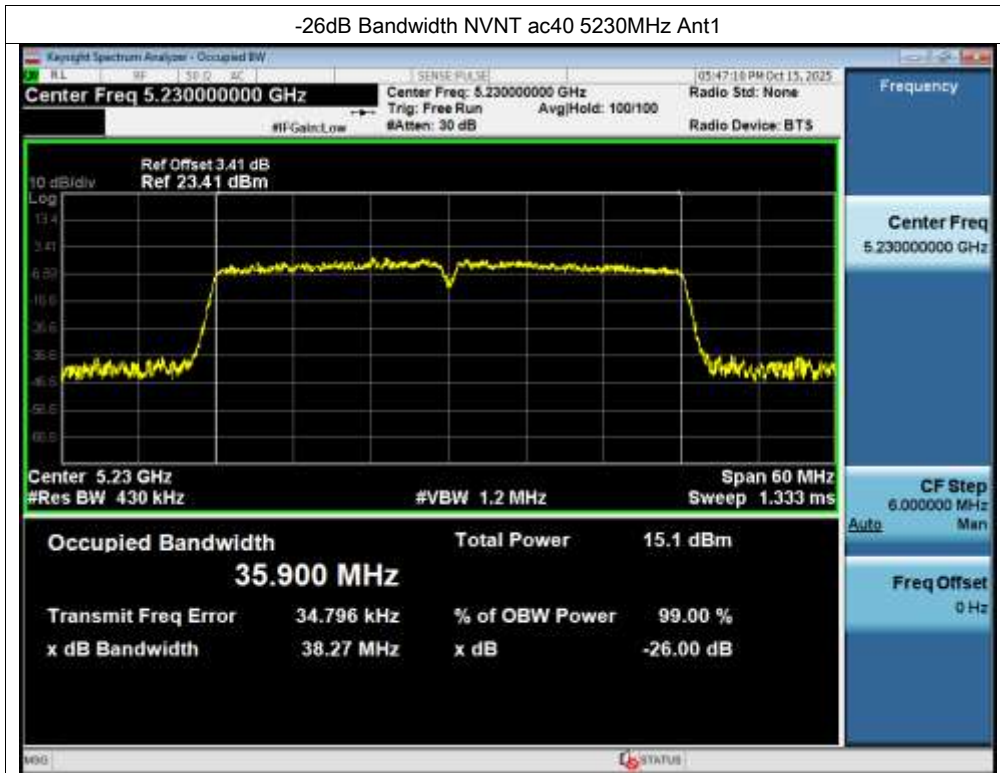
-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1



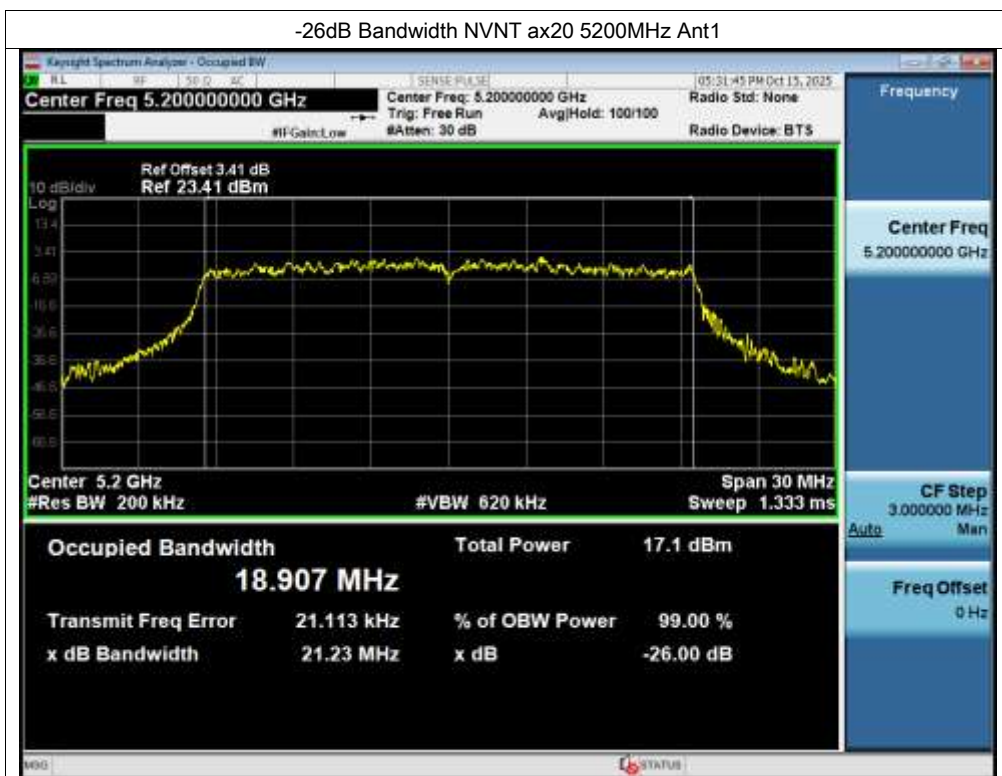
-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ax20 5180MHz Ant1



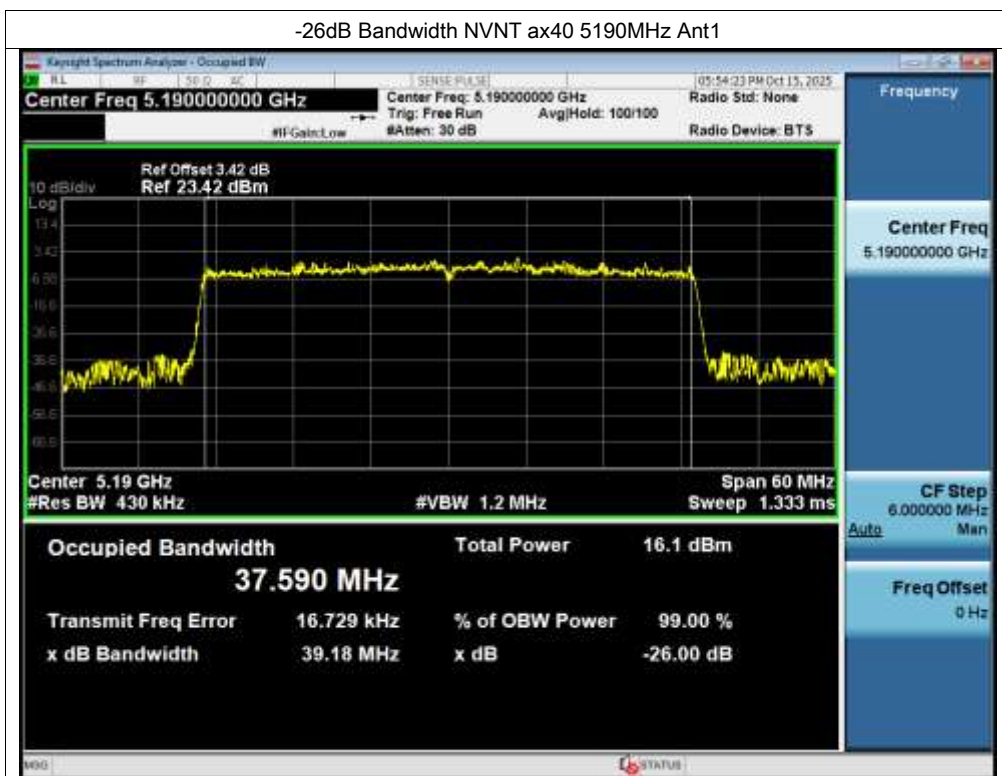
-26dB Bandwidth NVNT ax20 5200MHz Ant1



-26dB Bandwidth NVNT ax20 5240MHz Ant1



-26dB Bandwidth NVNT ax40 5190MHz Ant1



-26dB Bandwidth NVNT ax40 5230MHz Ant1



Test Graphs

OBW NVNT a 5180MHz Ant1



OBW NVNT a 5200MHz Ant1



OBW NVNT a 5240MHz Ant1



OBW NVNT n20 5180MHz Ant1



OBW NVNT n20 5200MHz Ant1



OBW NVNT n20 5240MHz Ant1



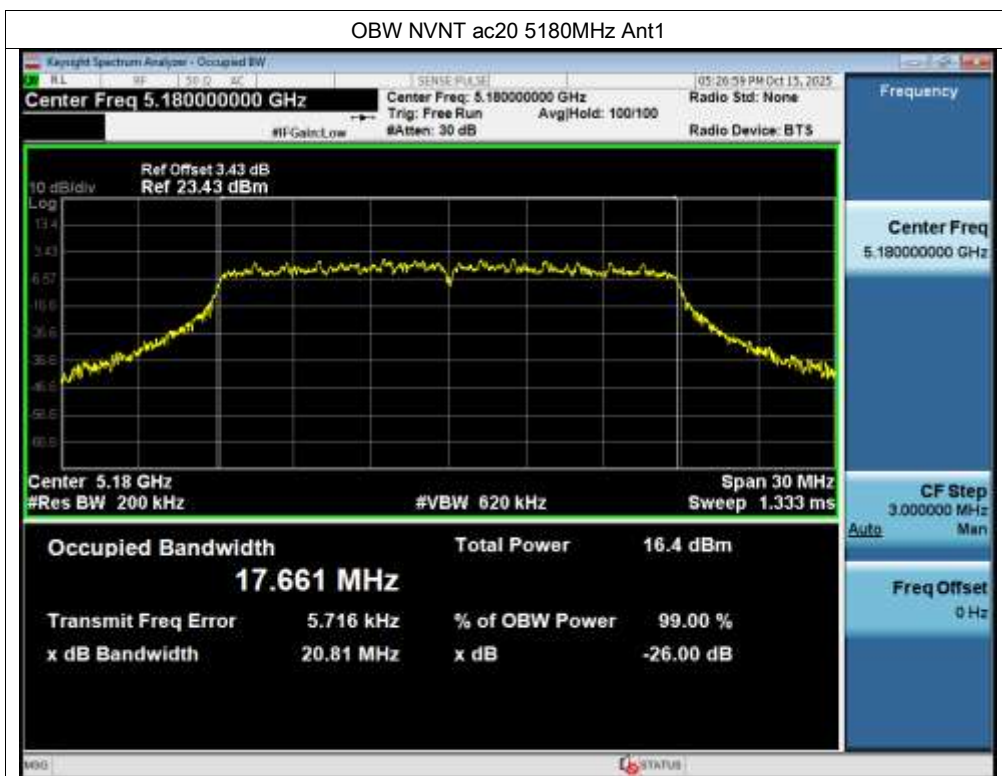
OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1



OBW NVNT ac20 5180MHz Ant1



OBW NVNT ac20 5200MHz Ant1



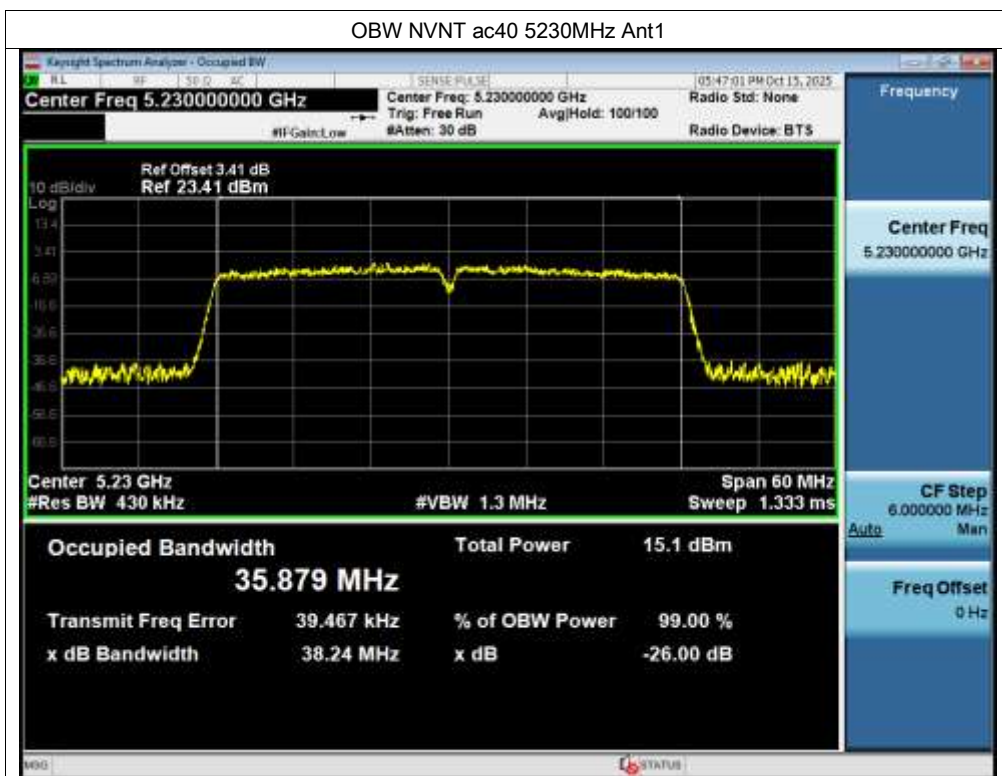
OBW NVNT ac20 5240MHz Ant1



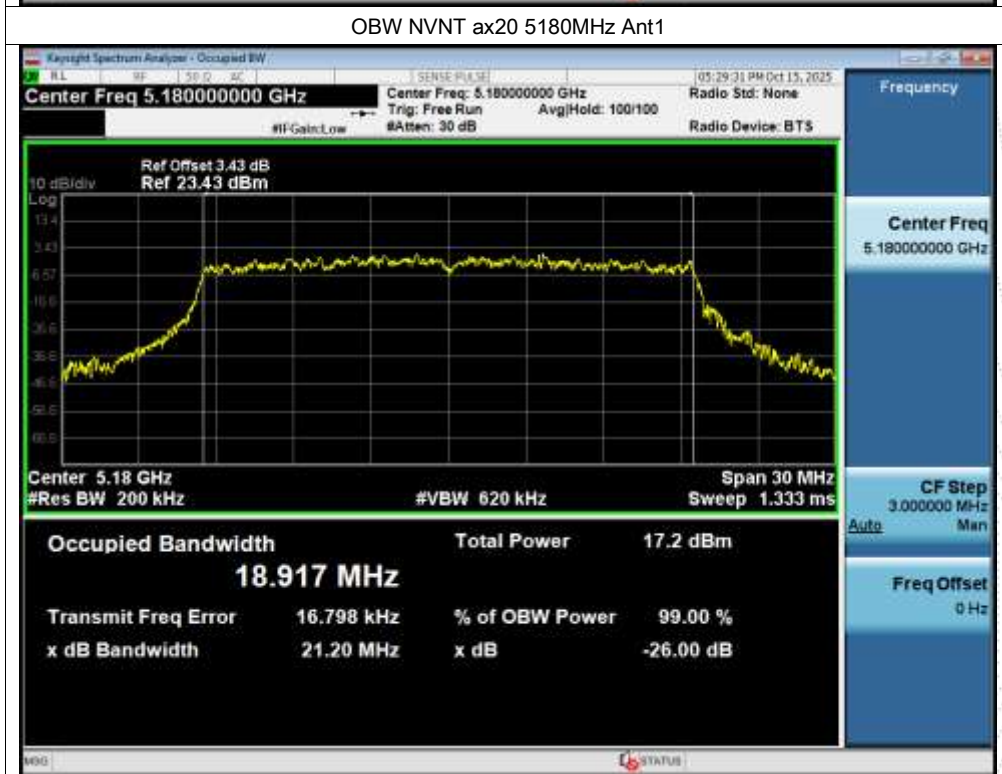
OBW NVNT ac40 5190MHz Ant1



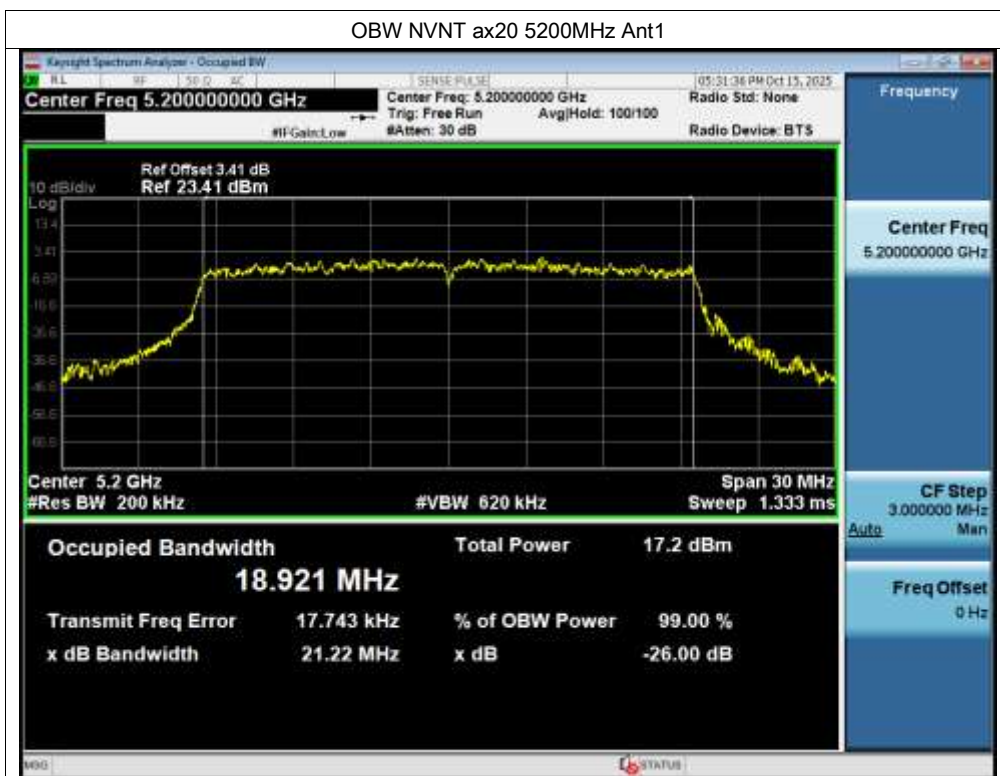
OBW NVNT ac40 5230MHz Ant1



OBW NVNT ax20 5180MHz Ant1



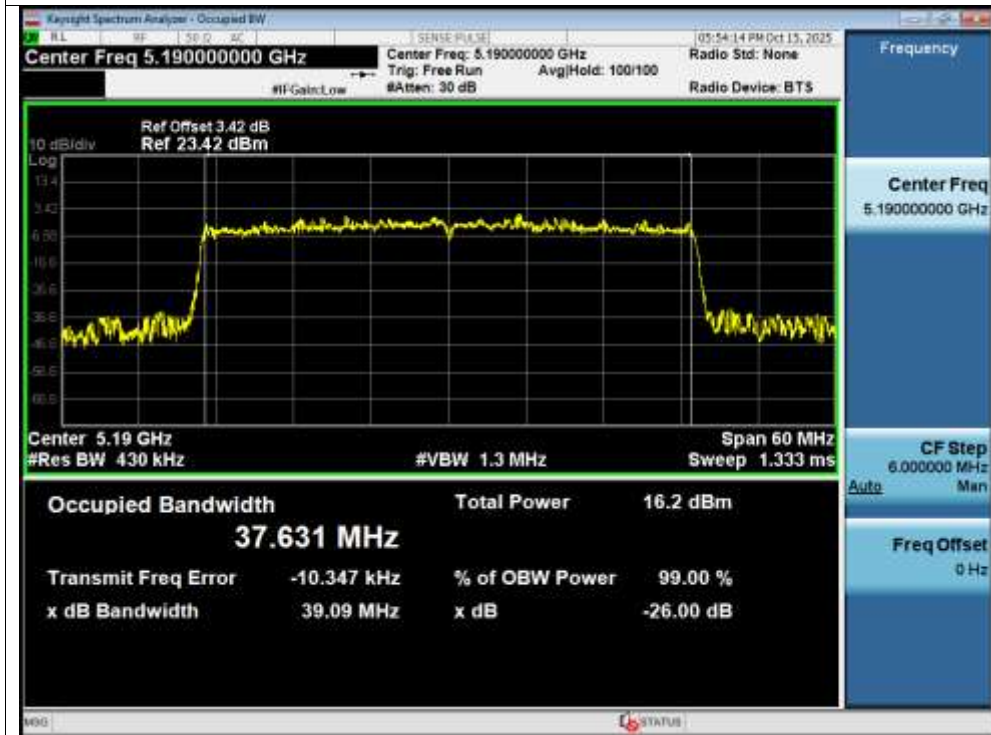
OBW NVNT ax20 5200MHz Ant1



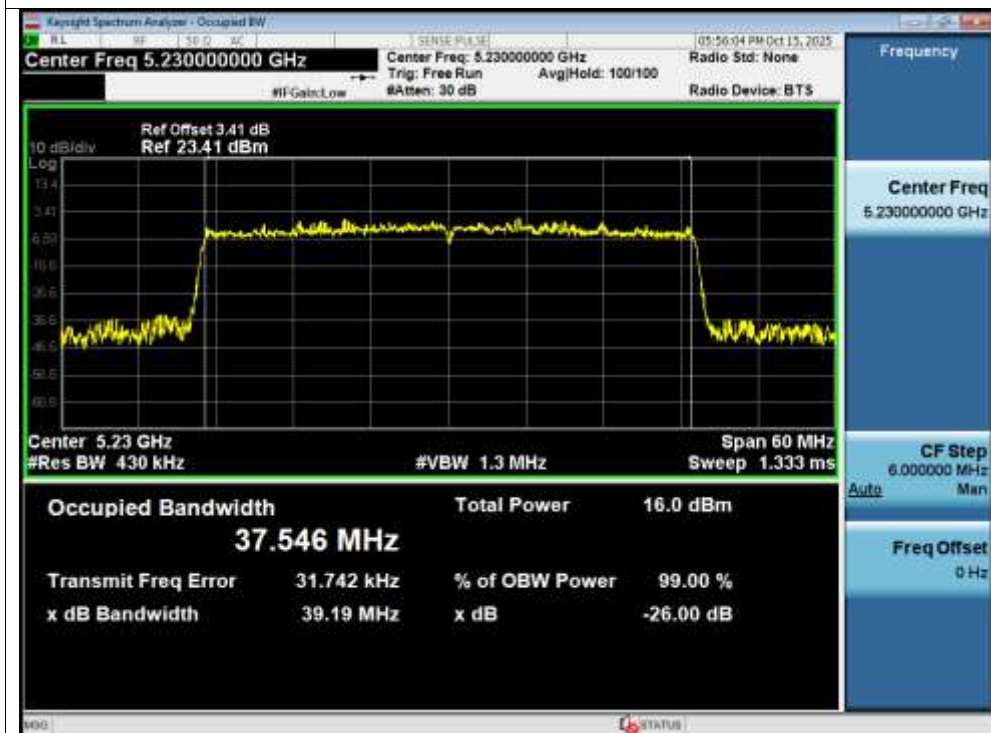
OBW NVNT ax20 5240MHz Ant1



OBW NVNT ax40 5190MHz Ant1



OBW NVNT ax40 5230MHz Ant1



Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5260-5320MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	26dB bandwidth (MHz)	Result
NVNT	a	5260	16.392	19.983	Pass
NVNT	a	5280	16.397	20.188	Pass
NVNT	a	5320	16.429	20.357	Pass
NVNT	n20	5260	17.608	20.704	Pass
NVNT	n20	5280	17.606	20.861	Pass
NVNT	n20	5320	17.592	20.754	Pass
NVNT	n40	5270	35.849	38.305	Pass
NVNT	n40	5310	35.836	38.409	Pass
NVNT	ac20	5260	17.625	20.847	Pass
NVNT	ac20	5280	17.638	20.692	Pass
NVNT	ac20	5320	17.661	20.808	Pass
NVNT	ac40	5270	35.911	38.266	Pass
NVNT	ac40	5310	35.883	38.252	Pass
NVNT	ax20	5260	18.925	21.186	Pass
NVNT	ax20	5280	18.931	21.366	Pass
NVNT	ax20	5320	18.929	21.279	Pass
NVNT	ax40	5270	37.594	39.16	Pass
NVNT	ax40	5310	37.561	39.233	Pass

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Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1



-26dB Bandwidth NVNT a 5280MHz Ant1



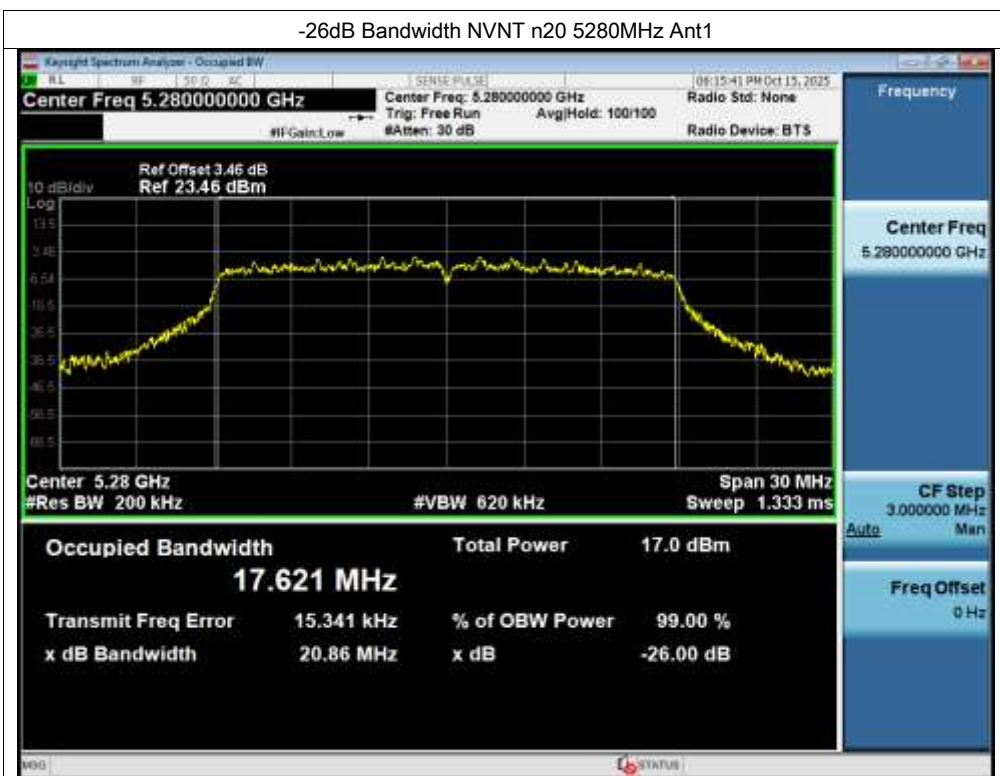
-26dB Bandwidth NVNT a 5320MHz Ant1



-26dB Bandwidth NVNT n20 5260MHz Ant1



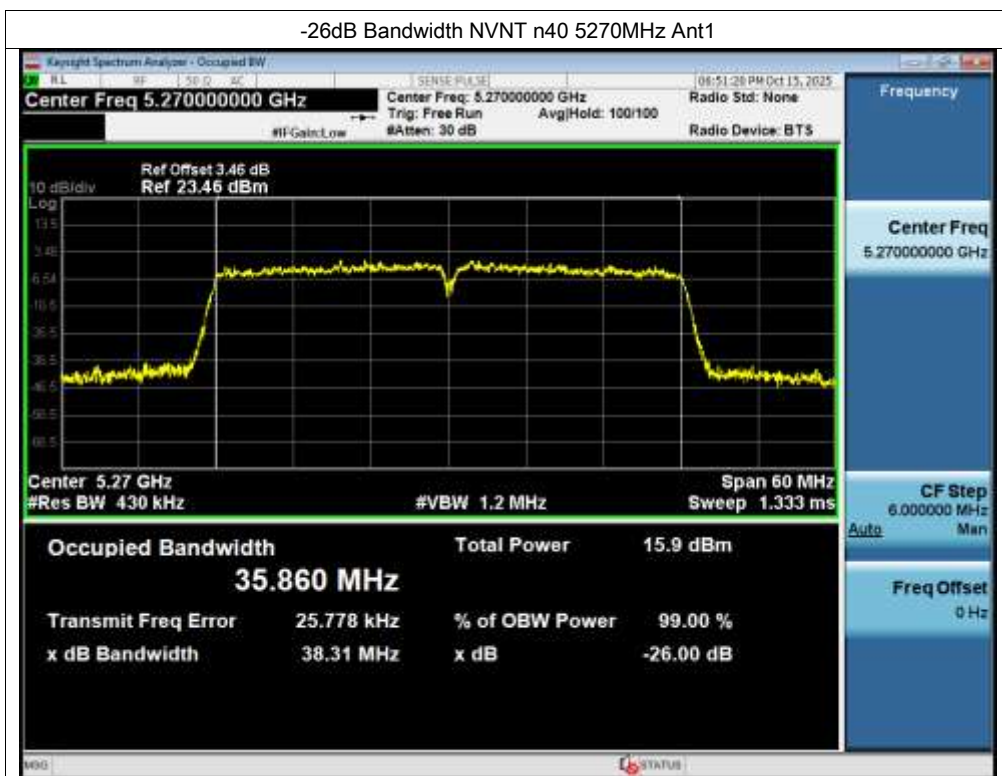
-26dB Bandwidth NVNT n20 5280MHz Ant1



-26dB Bandwidth NVNT n20 5320MHz Ant1



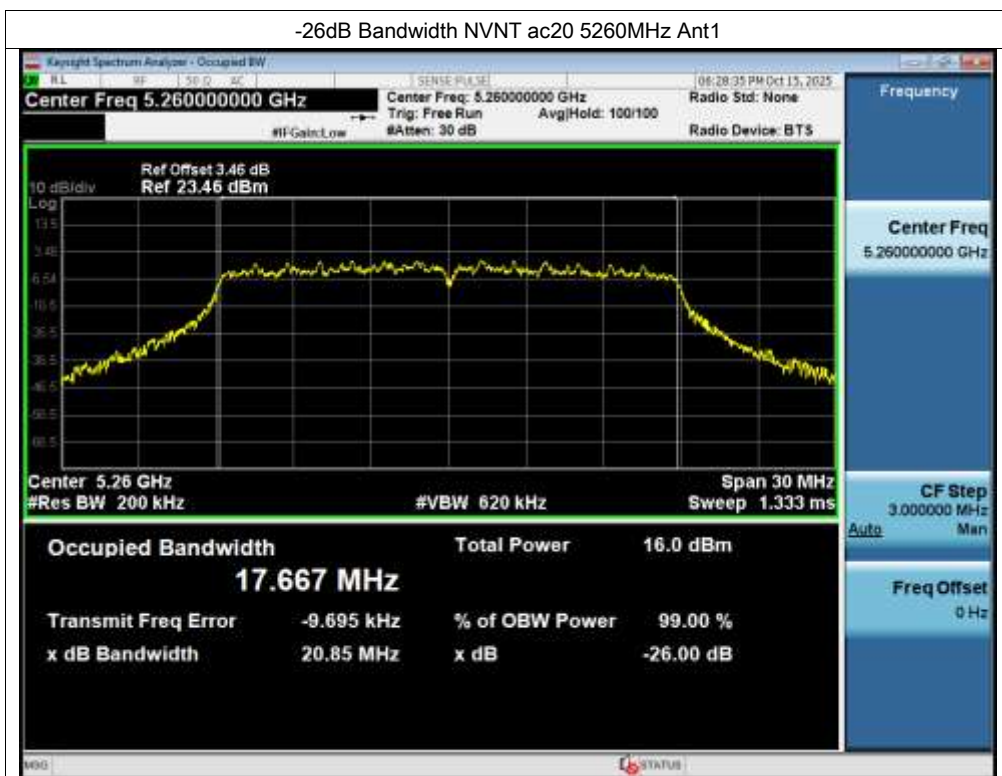
-26dB Bandwidth NVNT n40 5270MHz Ant1



-26dB Bandwidth NVNT n40 5310MHz Ant1



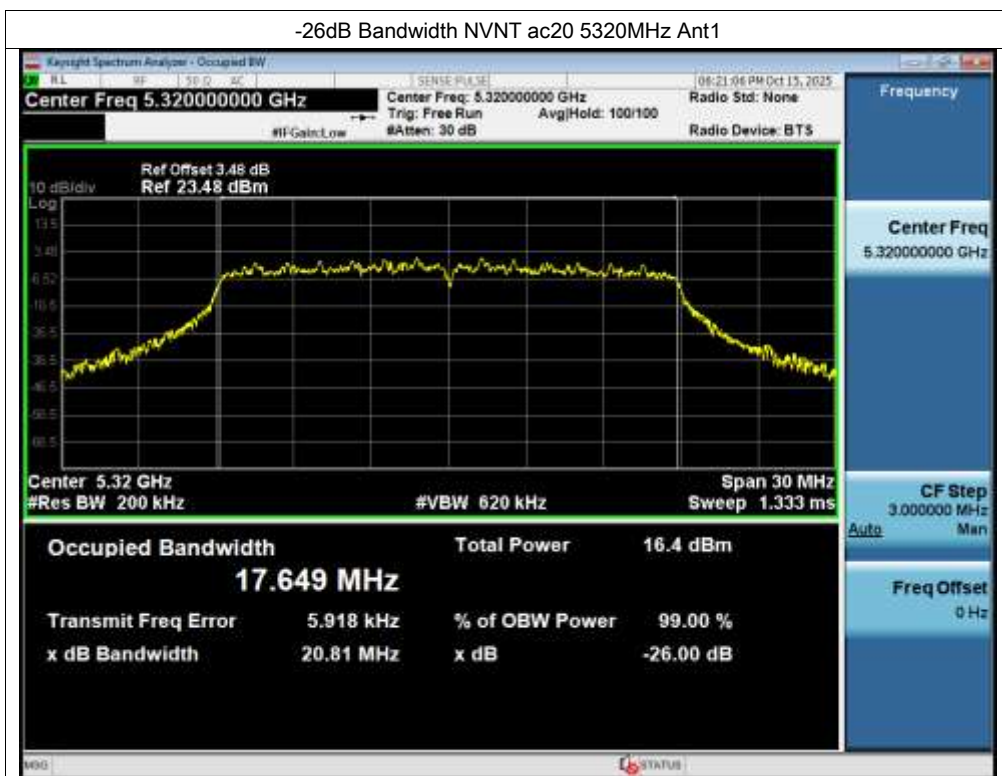
-26dB Bandwidth NVNT ac20 5260MHz Ant1



-26dB Bandwidth NVNT ac20 5280MHz Ant1



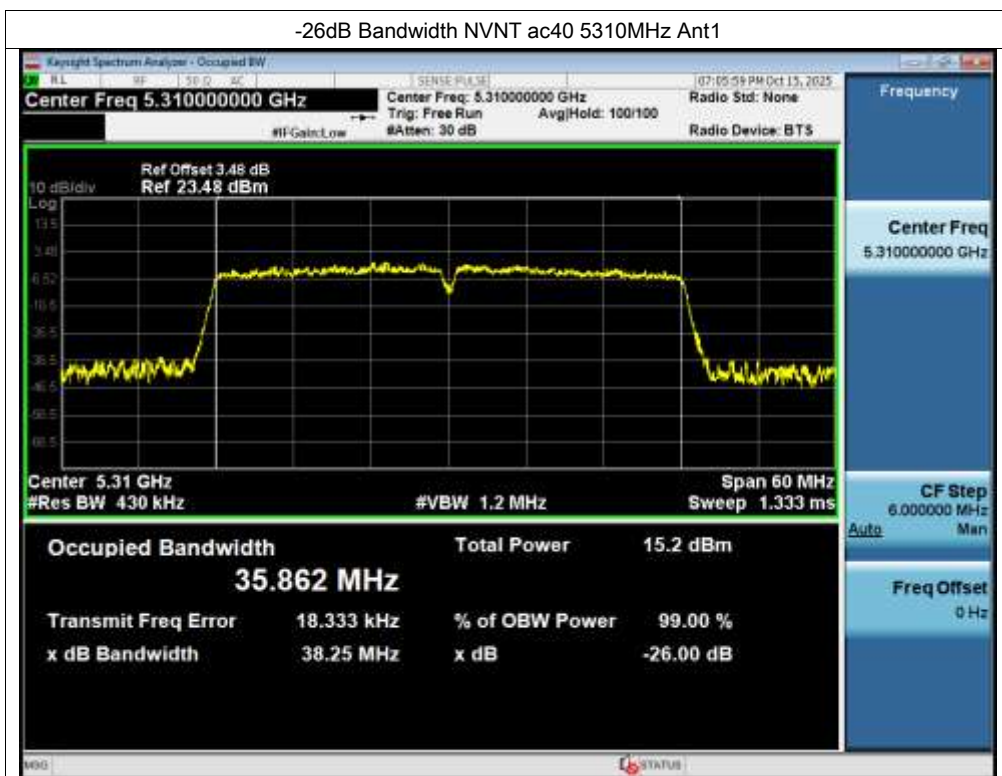
-26dB Bandwidth NVNT ac20 5320MHz Ant1



-26dB Bandwidth NVNT ac40 5270MHz Ant1



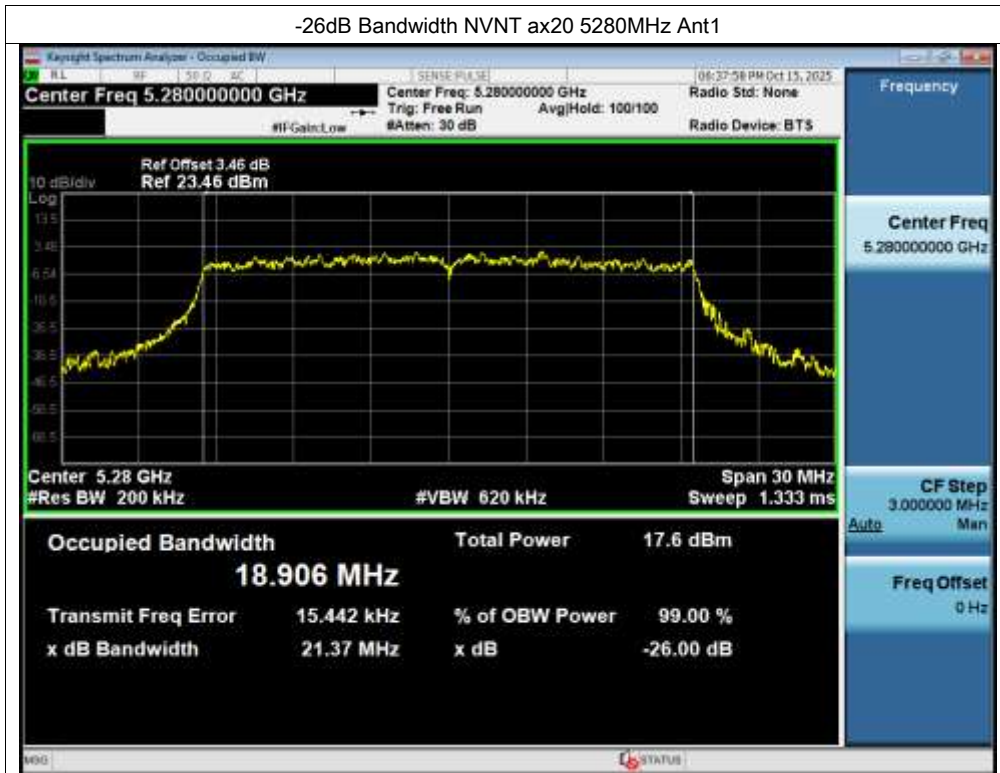
-26dB Bandwidth NVNT ac40 5310MHz Ant1



-26dB Bandwidth NVNT ax20 5260MHz Ant1



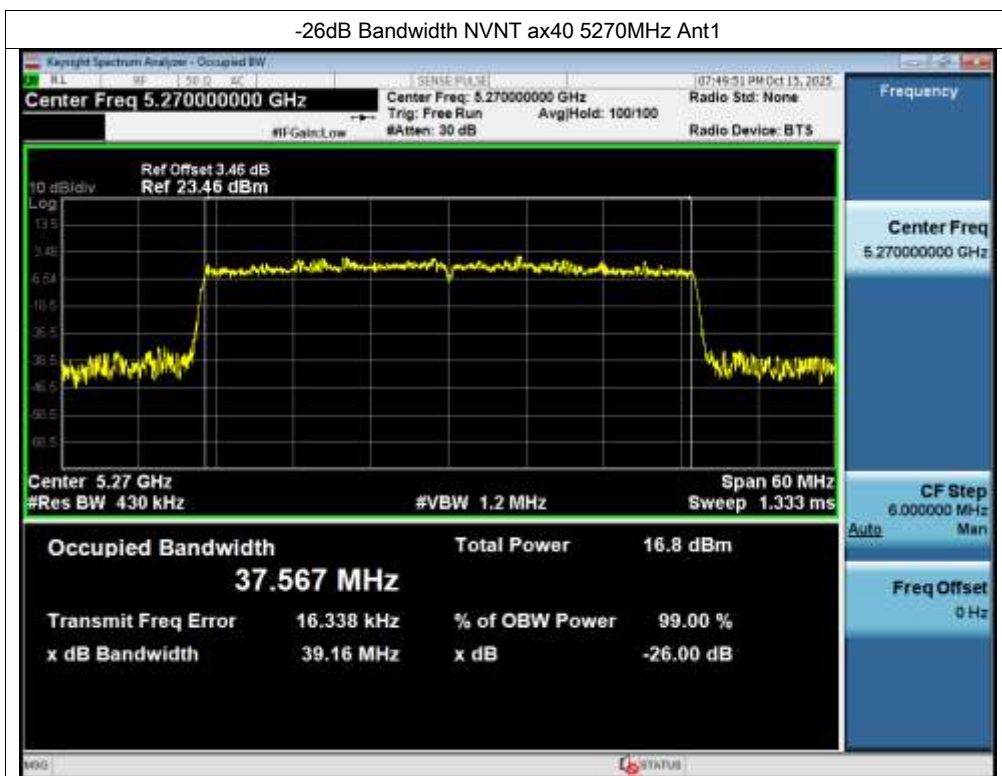
-26dB Bandwidth NVNT ax20 5280MHz Ant1



-26dB Bandwidth NVNT ax20 5320MHz Ant1



-26dB Bandwidth NVNT ax40 5270MHz Ant1



-26dB Bandwidth NVNT ax40 5310MHz Ant1



Test Graphs

OBW NVNT a 5260MHz Ant1



OBW NVNT a 5280MHz Ant1



OBW NVNT a 5320MHz Ant1



OBW NVNT n20 5260MHz Ant1



OBW NVNT n20 5280MHz Ant1



OBW NVNT n20 5320MHz Ant1



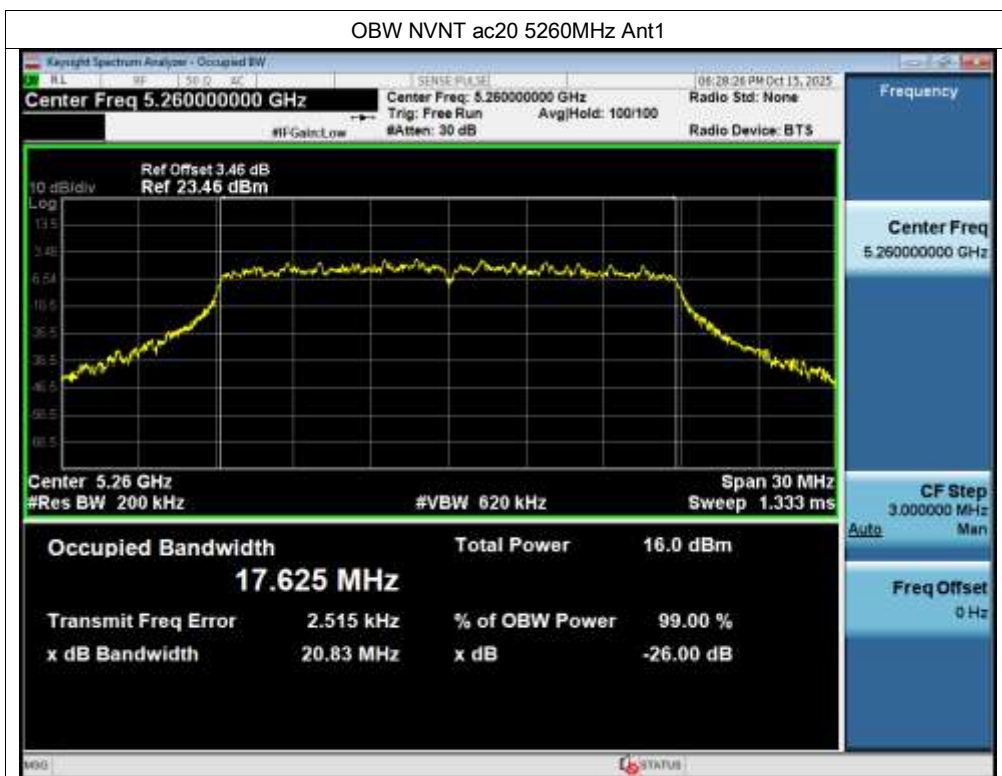
OBW NVNT n40 5270MHz Ant1



OBW NVNT n40 5310MHz Ant1



OBW NVNT ac20 5260MHz Ant1



OBW NVNT ac20 5280MHz Ant1



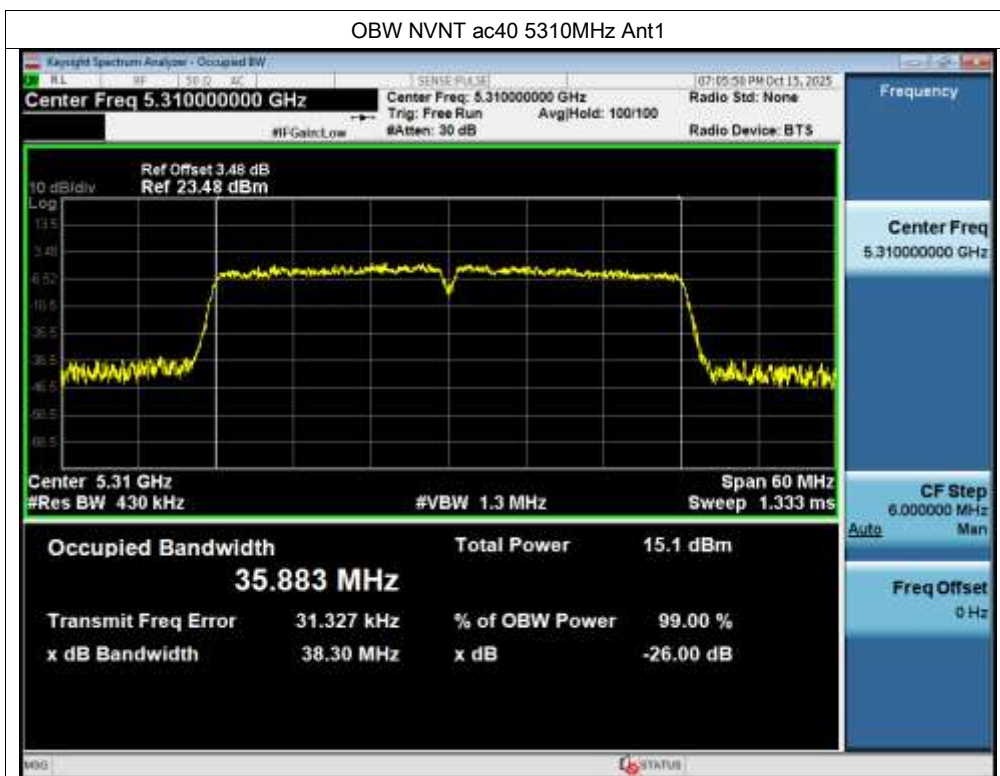
OBW NVNT ac20 5320MHz Ant1



OBW NVNT ac40 5270MHz Ant1



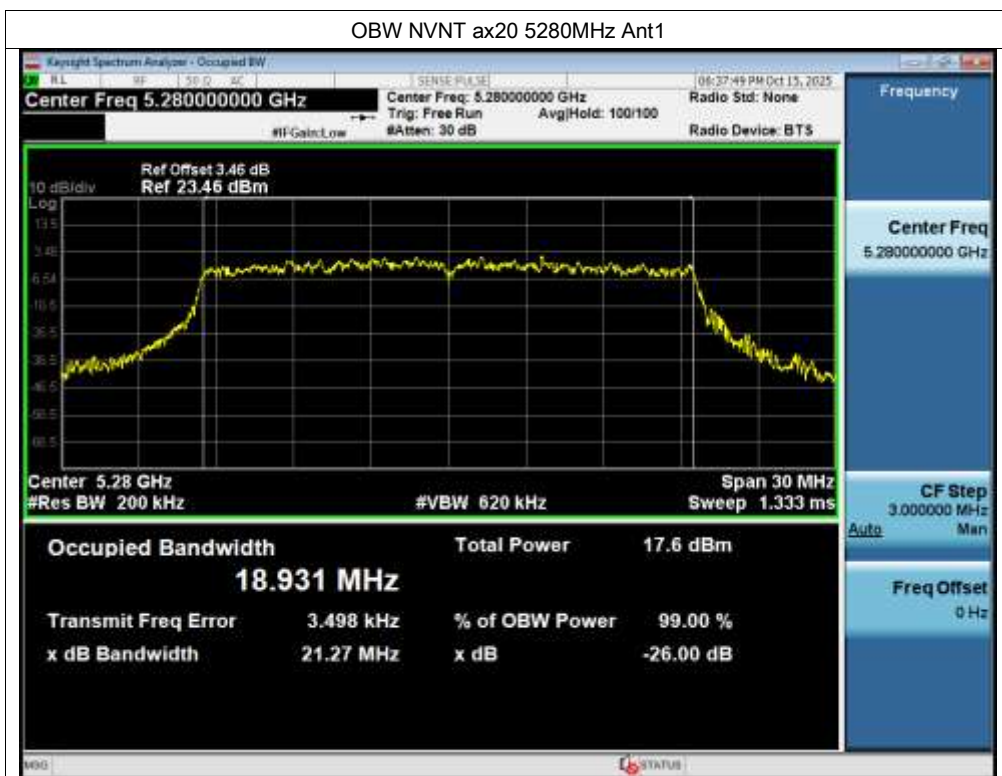
OBW NVNT ac40 5310MHz Ant1



OBW NVNT ax20 5260MHz Ant1



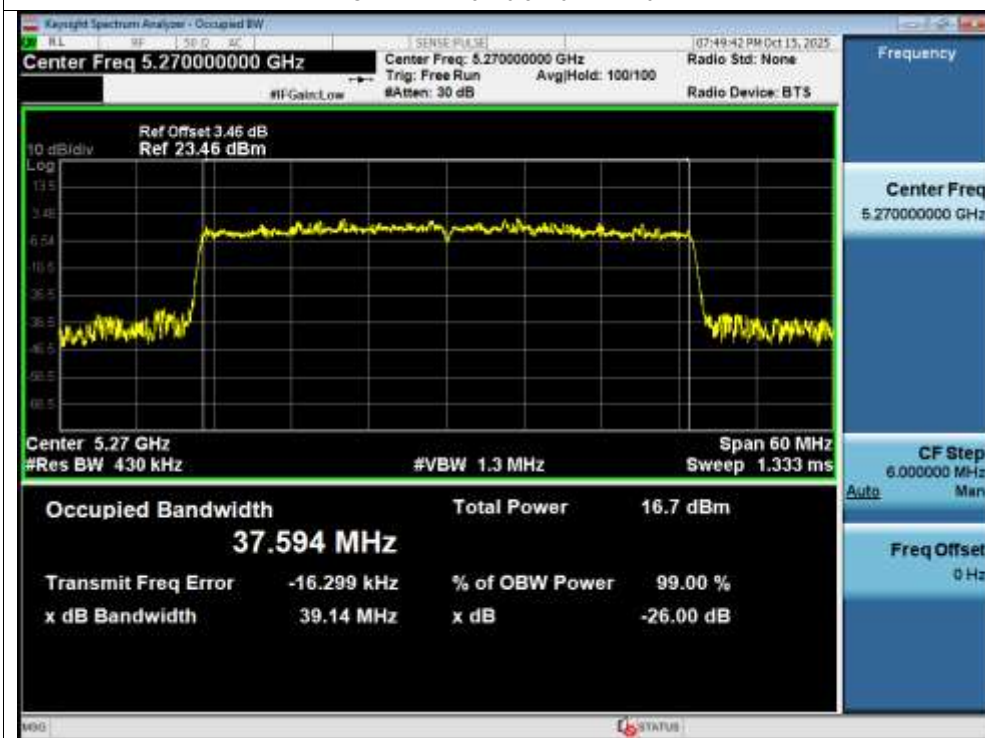
OBW NVNT ax20 5280MHz Ant1



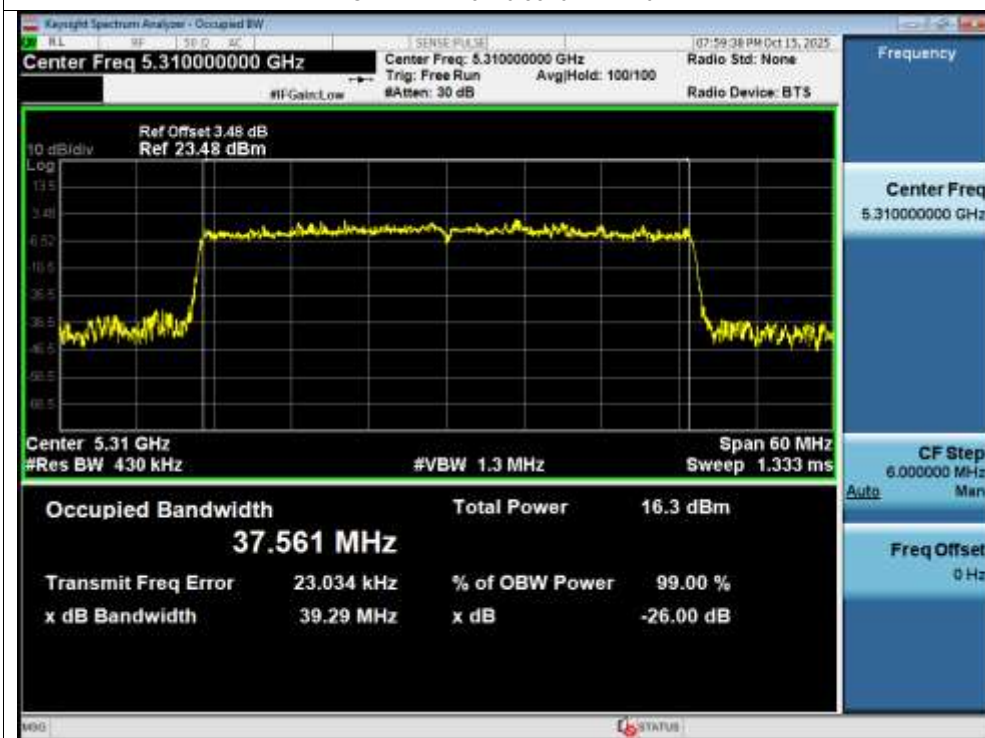
OBW NVNT ax20 5320MHz Ant1



OBW NVNT ax40 5270MHz Ant1



OBW NVNT ax40 5310MHz Ant1



Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5500-5700MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5500	16.407	19.893	Pass
NVNT	a	5580	16.385	20.516	Pass
NVNT	a	5700	16.429	20.264	Pass
NVNT	n20	5500	17.621	20.865	Pass
NVNT	n20	5580	17.606	20.847	Pass
NVNT	n20	5700	17.622	21.166	Pass
NVNT	n40	5510	35.834	38.274	Pass
NVNT	n40	5550	35.843	38.206	Pass
NVNT	n40	5670	35.84	38.203	Pass
NVNT	ac20	5500	17.649	20.872	Pass
NVNT	ac20	5580	17.698	21.222	Pass
NVNT	ac20	5700	17.674	21.211	Pass
NVNT	ac40	5510	35.885	38.125	Pass
NVNT	ac40	5550	35.905	38.215	Pass
NVNT	ac40	5670	35.888	38.247	Pass
NVNT	ax20	5500	18.911	21.06	Pass
NVNT	ax20	5580	18.932	21.246	Pass
NVNT	ax20	5700	18.922	21.127	Pass
NVNT	ax40	5510	37.556	39.085	Pass
NVNT	ax40	5550	37.559	39.138	Pass
NVNT	ax40	5670	37.541	39.148	Pass

Test Graphs

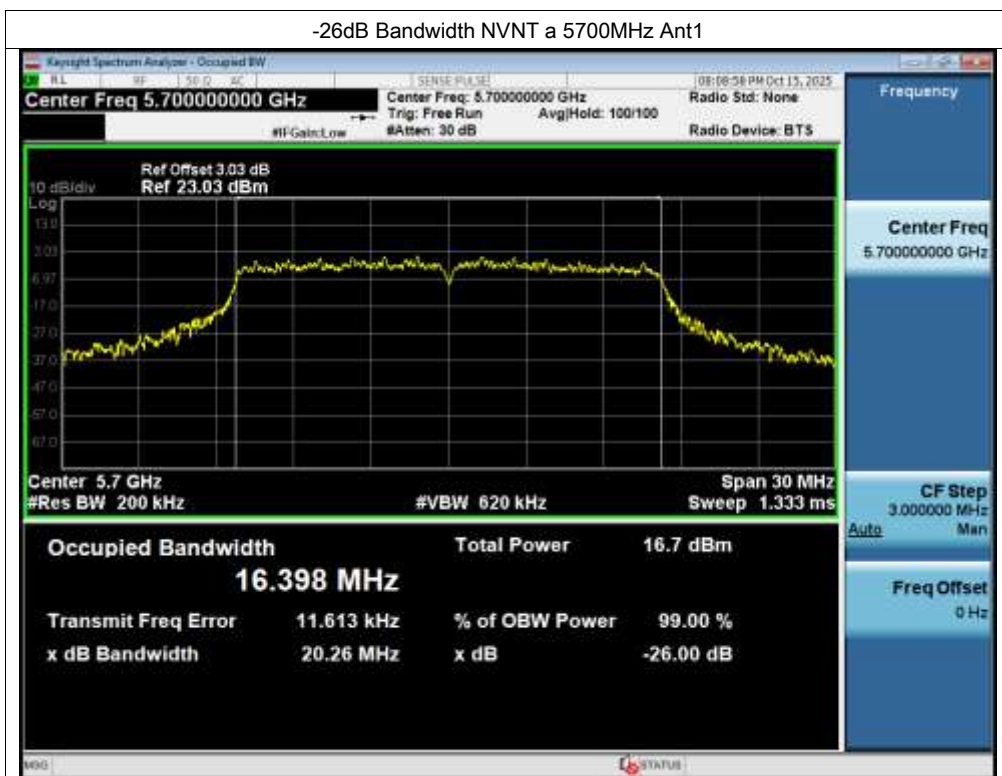
-26dB Bandwidth NVNT a 5500MHz Ant1



-26dB Bandwidth NVNT a 5580MHz Ant1



-26dB Bandwidth NVNT a 5700MHz Ant1



-26dB Bandwidth NVNT n20 5500MHz Ant1



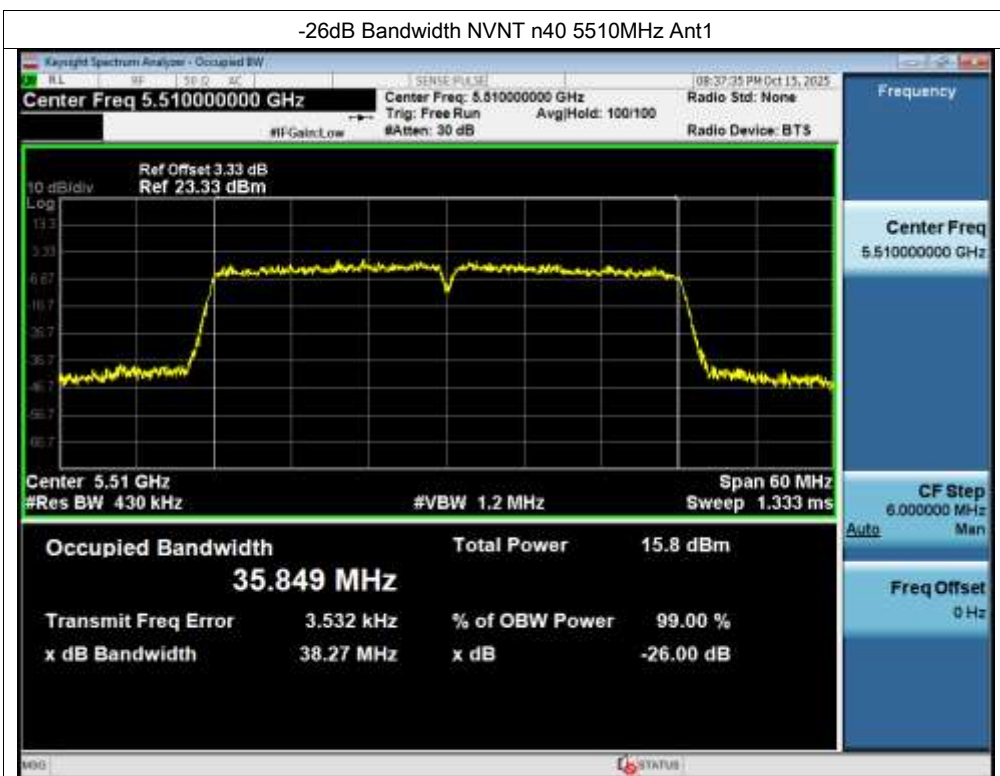
-26dB Bandwidth NVNT n20 5580MHz Ant1



-26dB Bandwidth NVNT n20 5700MHz Ant1



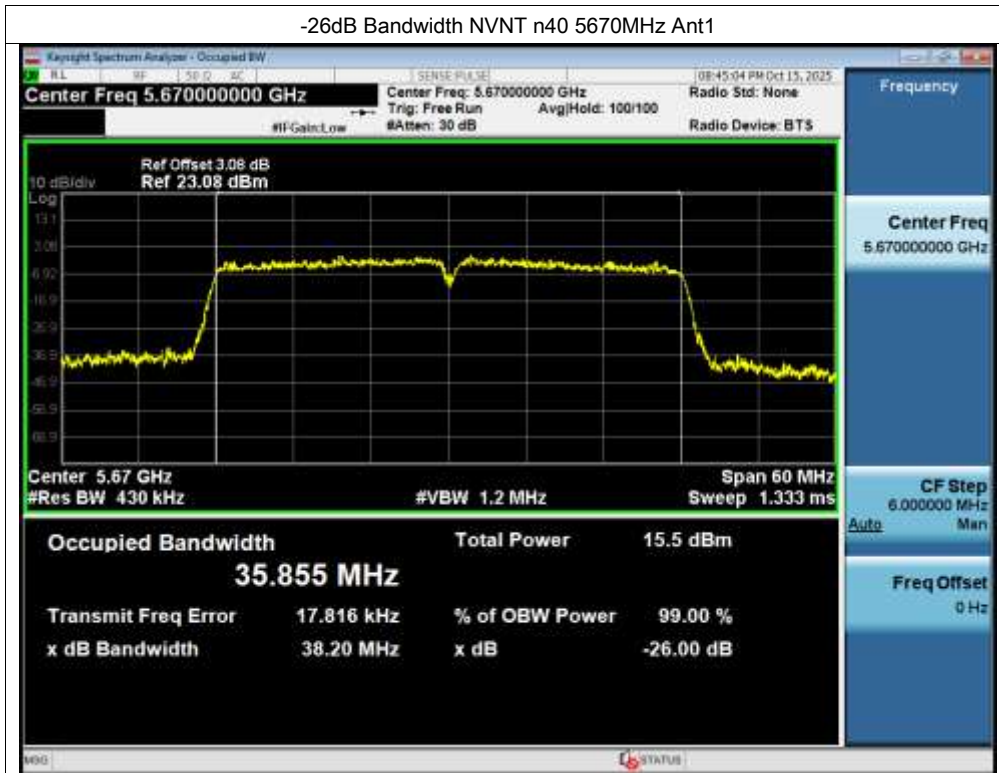
-26dB Bandwidth NVNT n40 5510MHz Ant1



-26dB Bandwidth NVNT n40 5550MHz Ant1



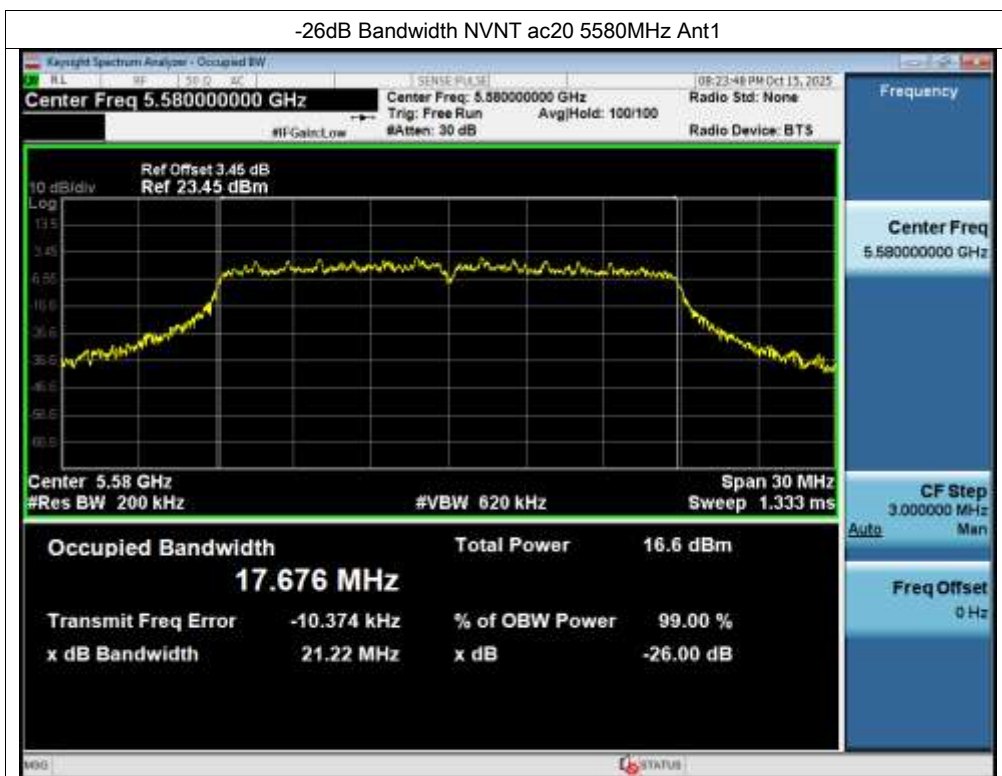
-26dB Bandwidth NVNT n40 5670MHz Ant1



-26dB Bandwidth NVNT ac20 5500MHz Ant1



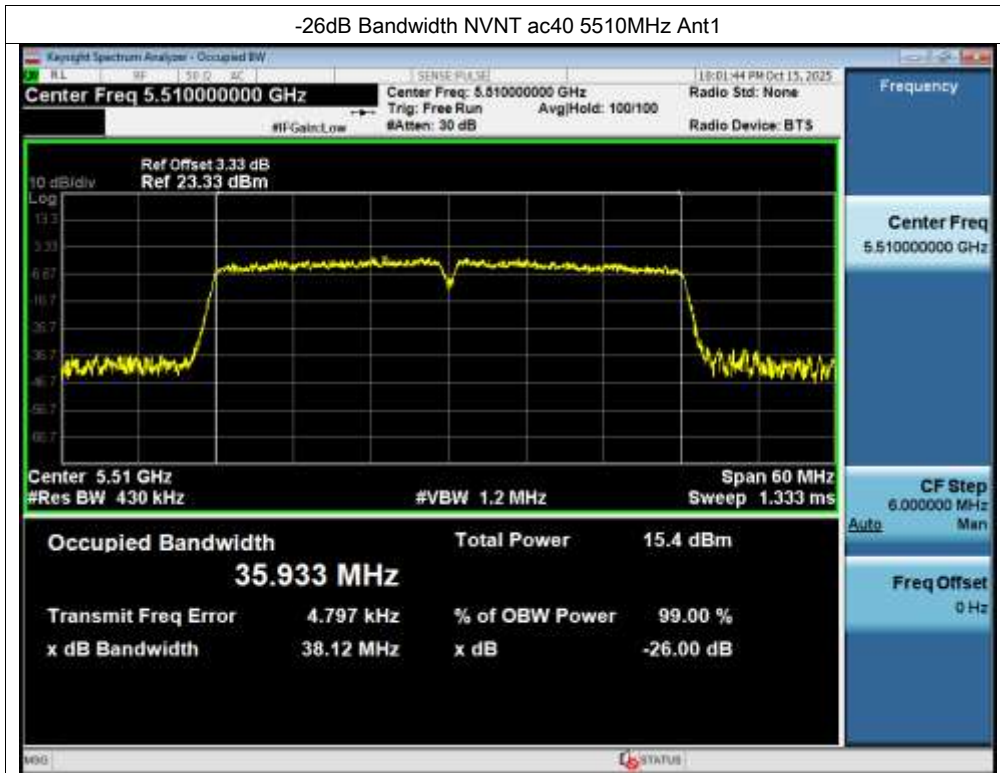
-26dB Bandwidth NVNT ac20 5580MHz Ant1



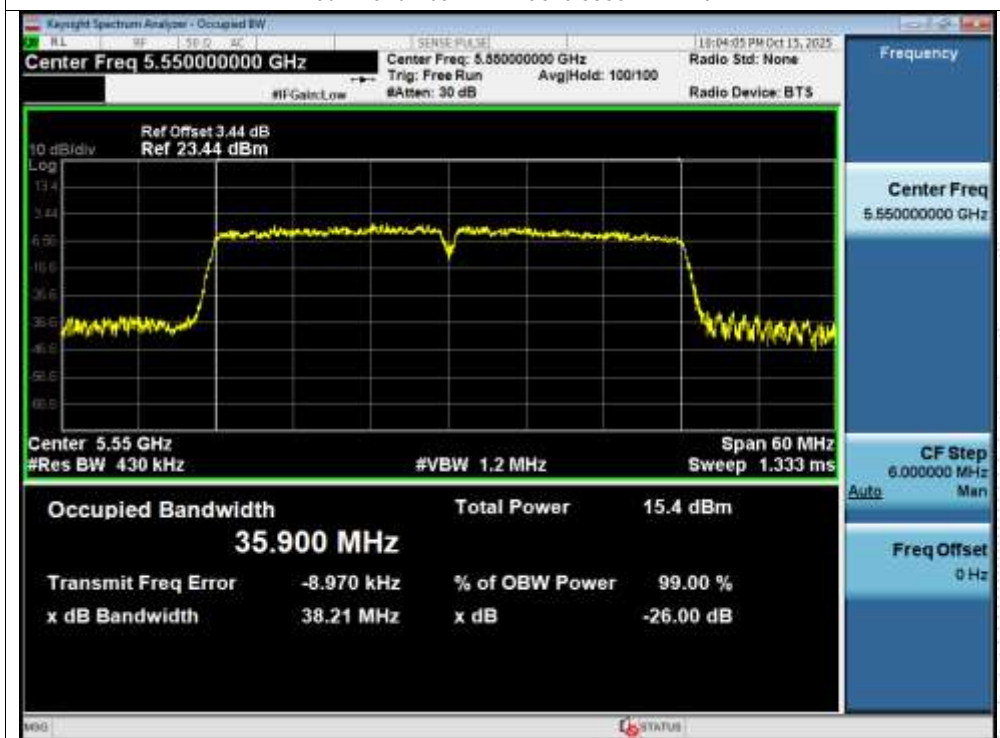
-26dB Bandwidth NVNT ac20 5700MHz Ant1



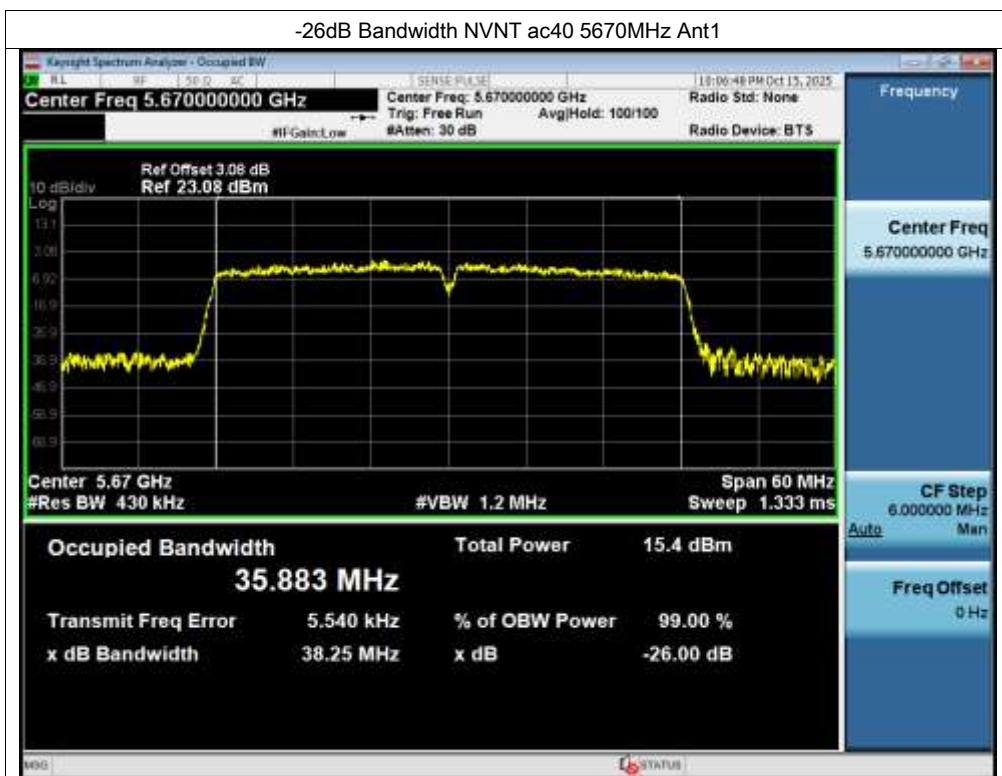
-26dB Bandwidth NVNT ac40 5510MHz Ant1



-26dB Bandwidth NVNT ac40 5550MHz Ant1



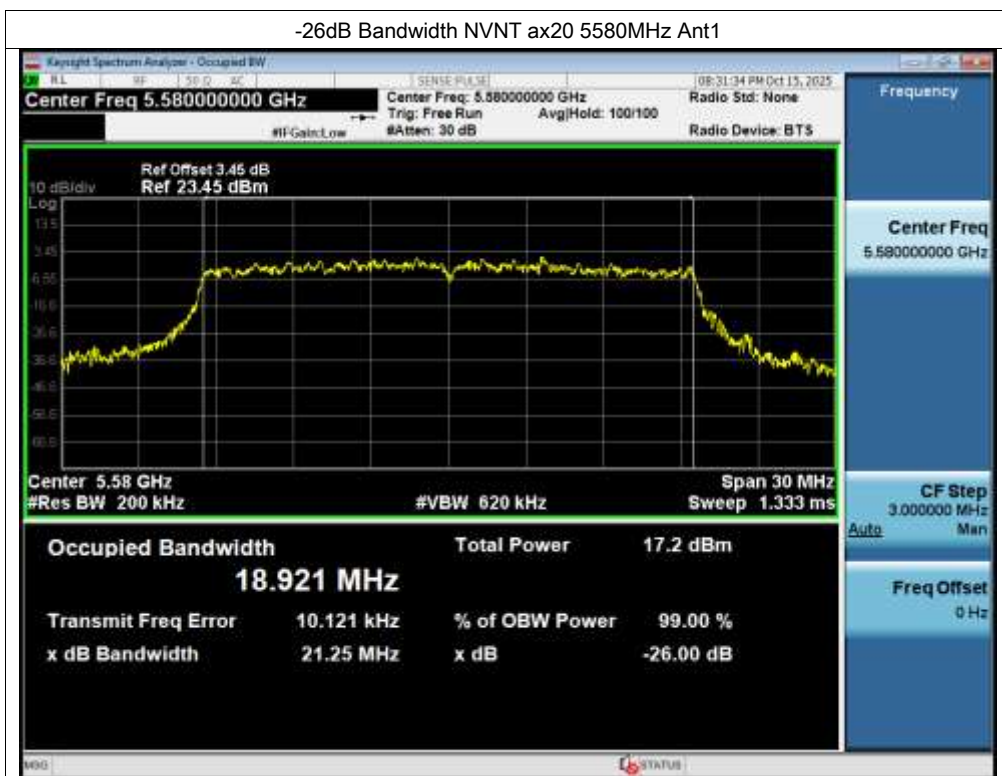
-26dB Bandwidth NVNT ac40 5670MHz Ant1



-26dB Bandwidth NVNT ax20 5500MHz Ant1



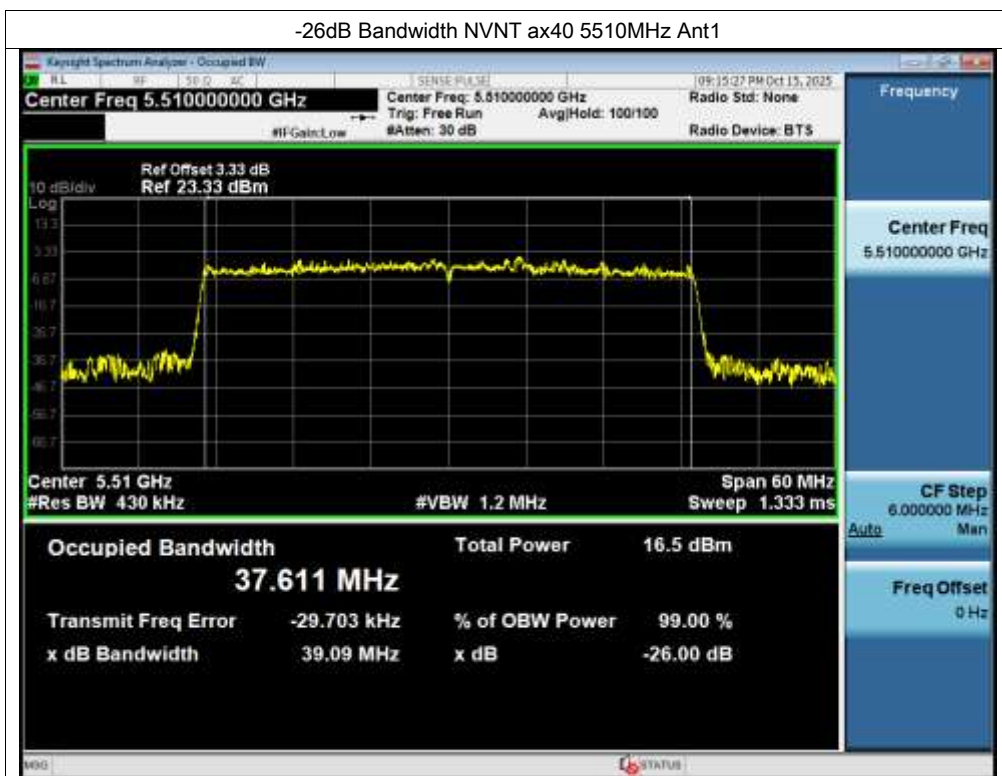
-26dB Bandwidth NVNT ax20 5580MHz Ant1



-26dB Bandwidth NVNT ax20 5700MHz Ant1

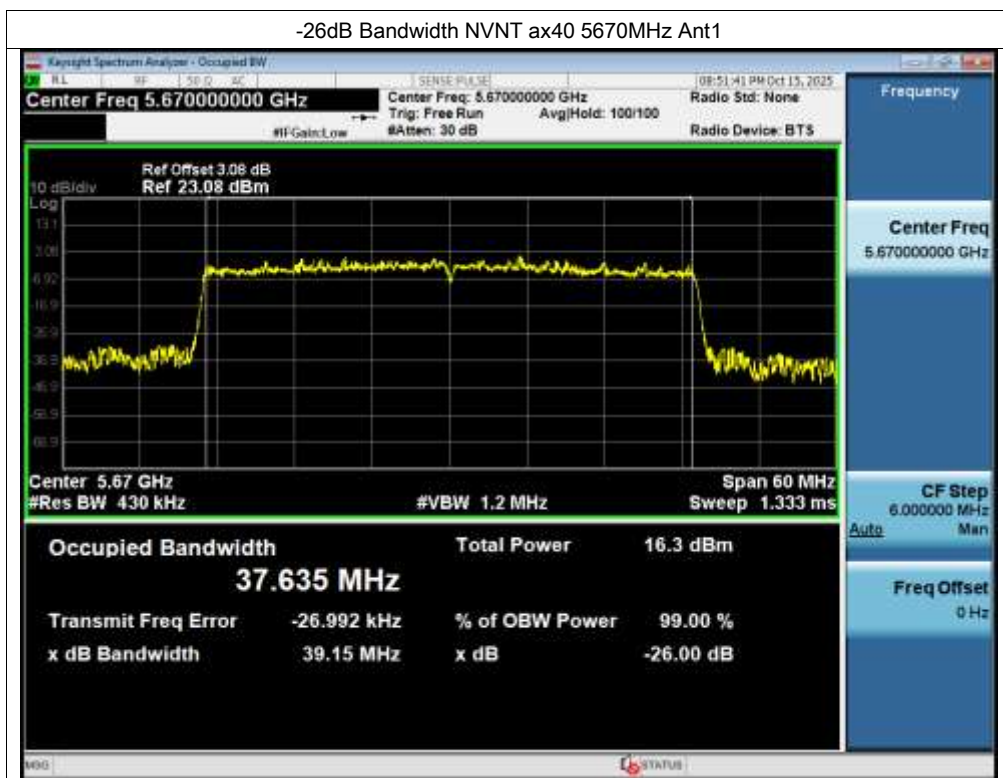


-26dB Bandwidth NVNT ax40 5510MHz Ant1



-26dB Bandwidth NVNT ax40 5550MHz Ant1





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Test Graphs

OBW NVNT a 5500MHz Ant1



OBW NVNT a 5580MHz Ant1



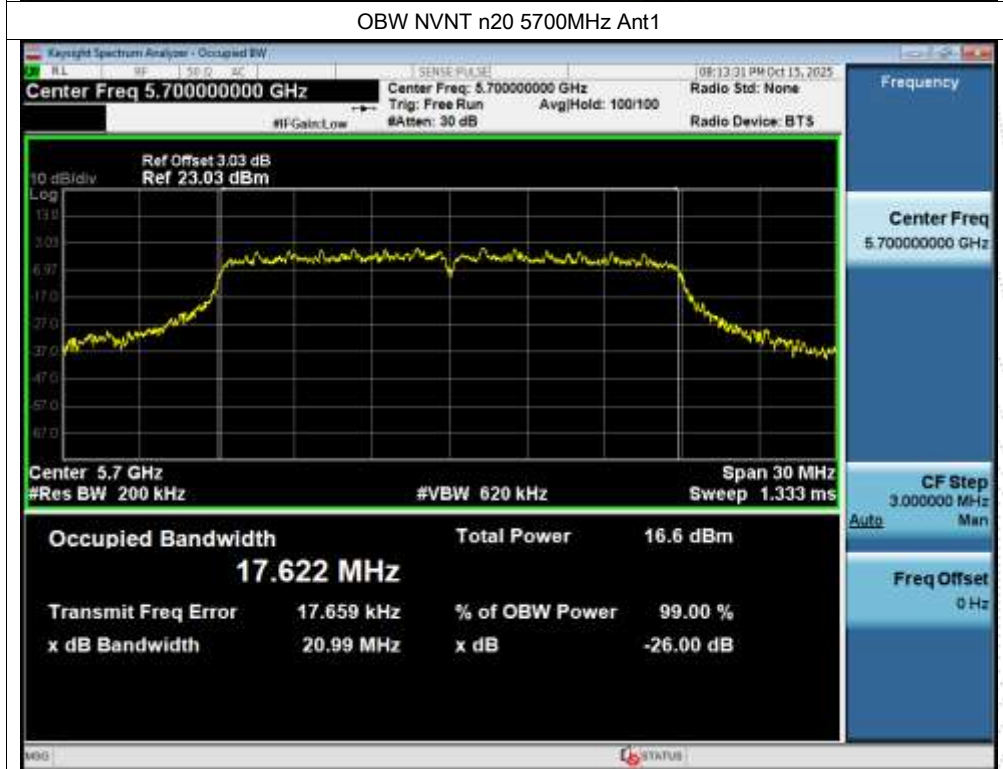
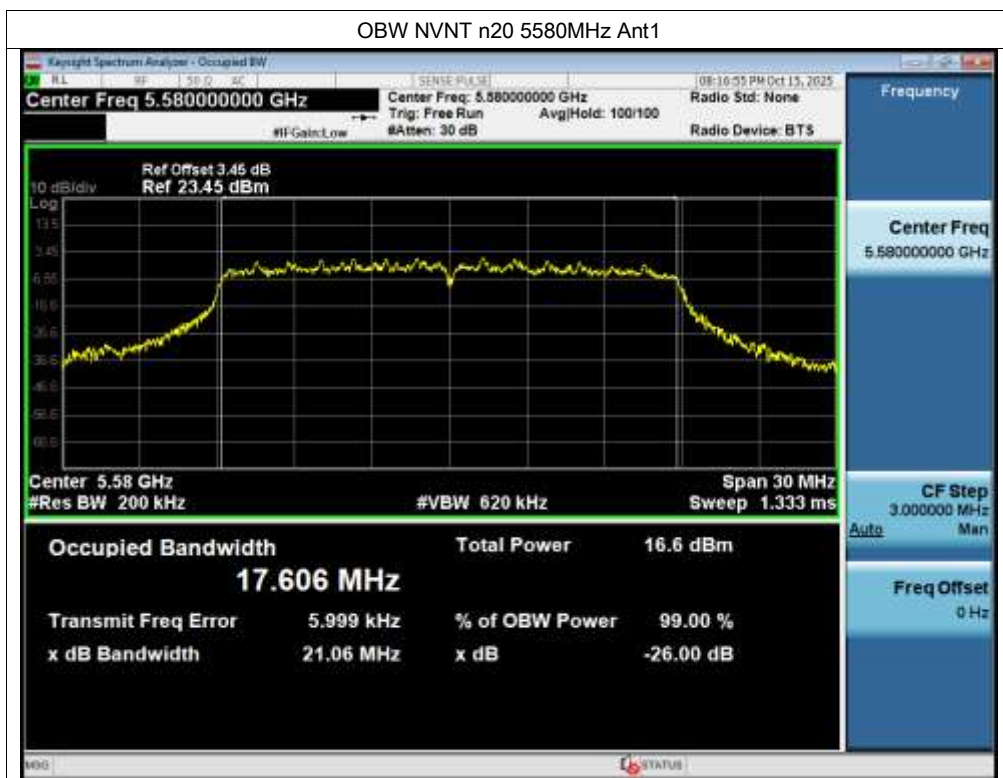
SHENZHEN

OBW NVNT a 5700MHz Ant1



OBW NVNT n20 5500MHz Ant1





OBW NVNT n40 5510MHz Ant1



OBW NVNT n40 5550MHz Ant1

