

7.5 EMISSION BANDWIDTH

7.5.1 TEST EQUIPMENT

Please refer to Section 5 this report.

7.5.2 TEST PROCEDURE

-26dB Bandwidth and 99% Occupied Bandwidth:	
Test Method:	a)The transmitter was radiated to the spectrum analyzer in peak hold mode. b)Measure the maximum width of the emission that is 26 dB down from the peak 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%.
Test Equipment Setting – 26dB Bandwidth:	Test Equipment Setting – 99% Bandwidth:
a)Attenuation: Auto	a)Span: 1.5 times to 5.0 times the OBW
b)Span Frequency: > 26dB Bandwidth	b)RBW: 1 % to 5 % of the OBW
c)RBW: Approximately 1% of the emission bandwidth	c)VBW: $\geq 3 \times$ RBW
d)VBW: VBW > RBW	d)Detector: Peak
e)Detector: Peak	e)Trace: Max Hold
f)Trace: Max Hold	
g)Sweep Time: Auto	
6 dB Bandwidth:	
Test Method:	a)The transmitter was radiated to the spectrum analyzer in peak hold mode. b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (C) Emission Bandwidth. c)Multiple antenna system was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band. d)Measured the spectrum width with power higher than 6dB below carrier.
Test Equipment Setting:	
a)Attenuation: Auto	e)Detector: Peak
b)Span Frequency: > 6dB Bandwidth	f)Trace: Max Hold
c)RBW: 100kHz	g)Sweep Time: Auto
d)VBW: $\geq 3 \times$ RBW	
Maximum Conducted Output Power Measurement:	
Test Method:	a)The transmitter output (antenna port) was connected to the power meter. b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (E) Maximum conducted output power =>3. Measurement using a Power Meter (PM) =>b) Method PM-G (Measurement using a gated RF average power meter). c)Multiple antenna systems was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band. d)When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.
Test Equipment Setting: Detector - Average	
Power Spectral Density:	
Test Method:	a)The transmitter output (antenna port) was connected RF switch to the spectrum analyzer. b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (F) Maximum Power Spectral Density (PSD). c)Multiple antenna systems was performed in accordance KDB662911 D01 v02r01 in-Band Power Spectral Density (PSD) Measurements (a) Measure and sum the spectra across the outputs. d)When measuring first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3 and so on up to the Nth output to obtain the value for the first frequency bin of the summed spectrum. The summed spectrum value for each of the other

frequency bins is computed in the same way. e) For 5.725~5.85 GHz, the measured result of PSD level must add $10\log(500\text{kHz}/\text{RBW})$ and the final result should $\leq 30 \text{ dBm}$.	
Test Equipment Setting:	
a) Attenuation: Auto b) Span Frequency: Encompass the entire emissions bandwidth (EBW) of the signal c) RBW: 1000 kHz d) VBW: 3000 kHz	e) Detector: RMS f) Trace: AVERAGE g) Sweep Time: Auto h) Trace Average: 100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW ($< 500 \text{ kHz}$) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.	

Frequency Stability Measurement:	
Test Method:	a) The transmitter output (antenna port) was connected to the spectrum analyzer. b) EUT have transmitted absence of modulation signal and fixed channelize. c) Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth. d) Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings. e) fc is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than $\pm 20 \text{ ppm}$ (IEEE 802.11 specification). f) The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value g) Extreme temperature is $0^\circ\text{C} \sim 40^\circ\text{C}$
Test Equipment Setting:	e) Sweep Time: Auto
a) Attenuation: Auto b) Span Frequency: Entire absence of modulation emissions bandwidth c) RBW: 10 kHz d) VBW: 10 kHz	

7.5.3 CONFIGURATION OF THE EUT

Same as section 3.4 of this report

7.5.4 EUT OPERATING CONDITION

Same as section 3.5 of this report.

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7.5.5 LIMIT

-26dB Bandwidth and 99% Occupied Bandwidth:	
Limit:	No restriction limits.
-6 dB Bandwidth:	
Limit:	For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.
Test Equipment Setting:	
a) Attenuation: Auto	e) Detector: Peak
b) Span Frequency: > 6dB Bandwidth	f) Trace: Max Hold
c) RBW: 100kHz	g) Sweep Time: Auto
d) VBW: $\geq 3 \times$ RBW	
Maximum Conducted Output Power Measurement:	
☒ 5.15~5.25 GHz	
☐ Limit of Outdoor access point:	☐ Limit of Indoor access point:
The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. 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.
☐ Limit of Fixed point-to-point access points:	☒ Limit of Mobile and portable client devices:
The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. 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.
☒ 5.25-5.35 GHz & ☒ 5.470-5.725 GHz	
The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. 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.	
☒ 5.725~5.85 GHz	
The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). 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 directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.	
Power Spectral Density	
☒ 5.15~5.25 GHz	
☐ Limit of Outdoor access point: 17 dBm/MHz	☐ Limit of Indoor access point: 17 dBm/MHz
☐ Limit of Fixed point-to-point access points: 17 dBm/MHz	☒ Limit of Mobile and portable client devices: 11 dBm/MHz
☐ 5.25-5.35 GHz	11 dBm/MHz
☐ 5.470-5.725 GHz	11 dBm/MHz
☒ 5.725~5.85 GHz	30 dBm/500kHz
Frequency Stability Measurement:	
Limit:	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual. The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

7.5.6 TEST RESULT

-26dB Bandwidth and 99% Occupied Bandwidth

Product	: EUT-Sample	Test Mode	: See section 3.4
Test Item	: -26dB Bandwidth/-6dB Bandwidth and 99% Occupied Bandwidth	Temperature	: 25 °C
Test Voltage	: DC 3.91V	Humidity	: 56%RH
Test Result	: PASS		

-26Db&99% Bandwidth

Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	99%dB Bandwidth (MHz)	Verdict
a	5180	19.94	16.475	Pass
a	5240	19.66	16.433	Pass
a	5260	20.30	16.431	Pass
a	5320	19.64	16.418	Pass
a	5500	19.37	16.409	Pass
a	5700	19.91	16.436	Pass
n20	5180	22.56	17.539	Pass
n20	5240	22.70	17.601	Pass
n20	5260	23.91	17.573	Pass
n20	5320	22.63	17.566	Pass
n20	5500	23.00	17.562	Pass
n20	5700	21.61	17.575	Pass
n40	5190	43.03	35.941	Pass
n40	5230	57.48	35.954	Pass
n40	5270	41.61	35.909	Pass
n40	5310	43.39	35.915	Pass
n40	5510	58.56	36.029	Pass
n40	5670	51.91	35.994	Pass
ac20	5180	20.43	17.547	Pass
ac20	5240	20.40	17.612	Pass
ac20	5260	20.01	17.550	Pass
ac20	5320	20.05	17.544	Pass
ac20	5500	19.99	17.547	Pass
ac20	5700	19.97	17.544	Pass
ac40	5190	41.93	35.932	Pass
ac40	5230	40.20	35.940	Pass
ac40	5270	40.26	35.893	Pass
ac40	5310	40.15	35.888	Pass
ac40	5510	40.42	35.988	Pass
ac40	5670	39.96	35.991	Pass
ac80	5210	100.8	75.325	Pass
ac80	5290	83.93	75.188	Pass
ac80	5530	86.21	75.253	Pass
ac80	5610	94.15	75.329	Pass

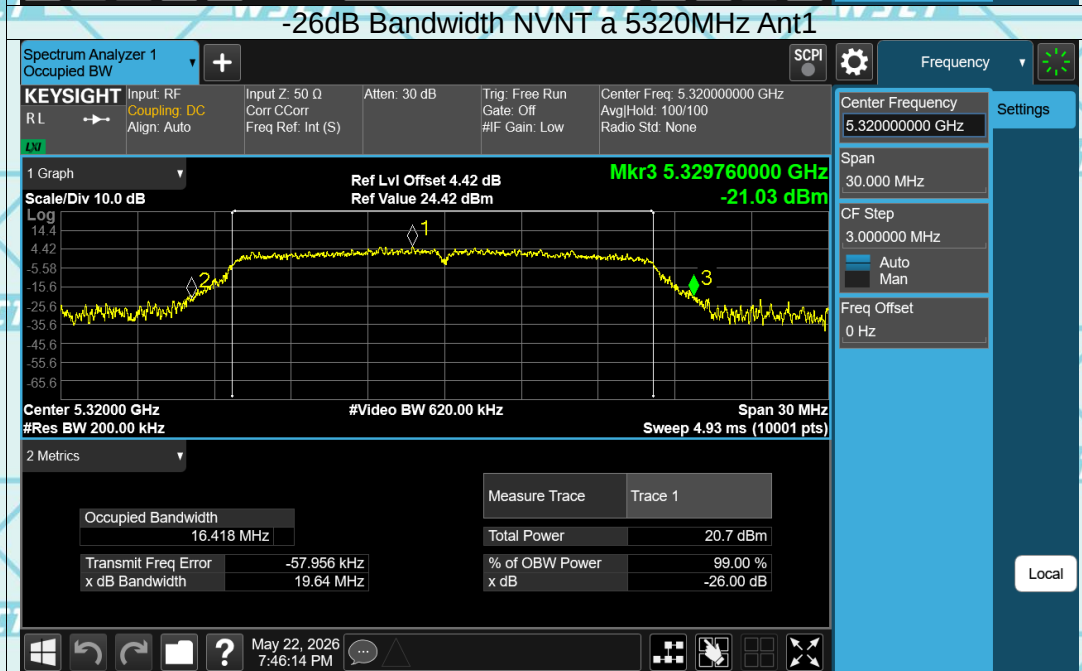
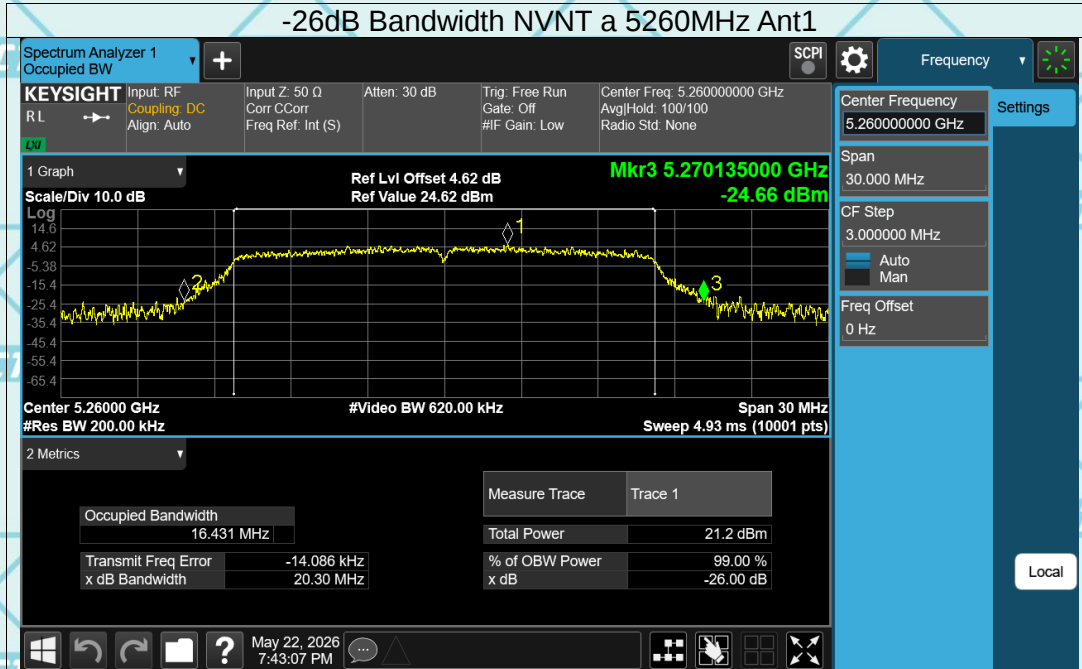
-6dB&99% Bandwidth

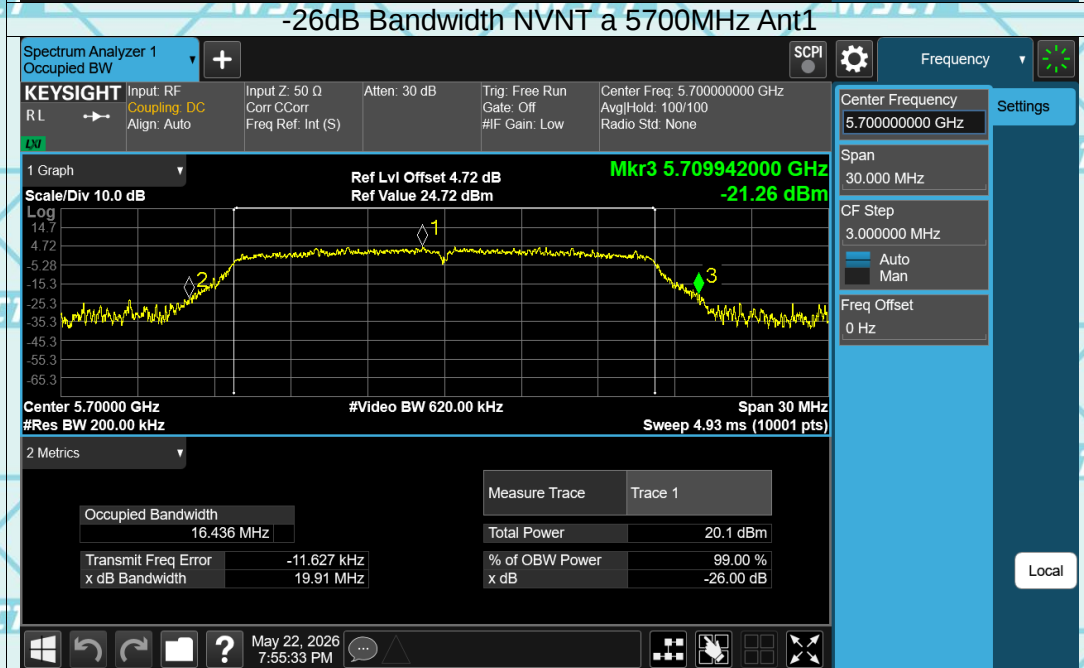
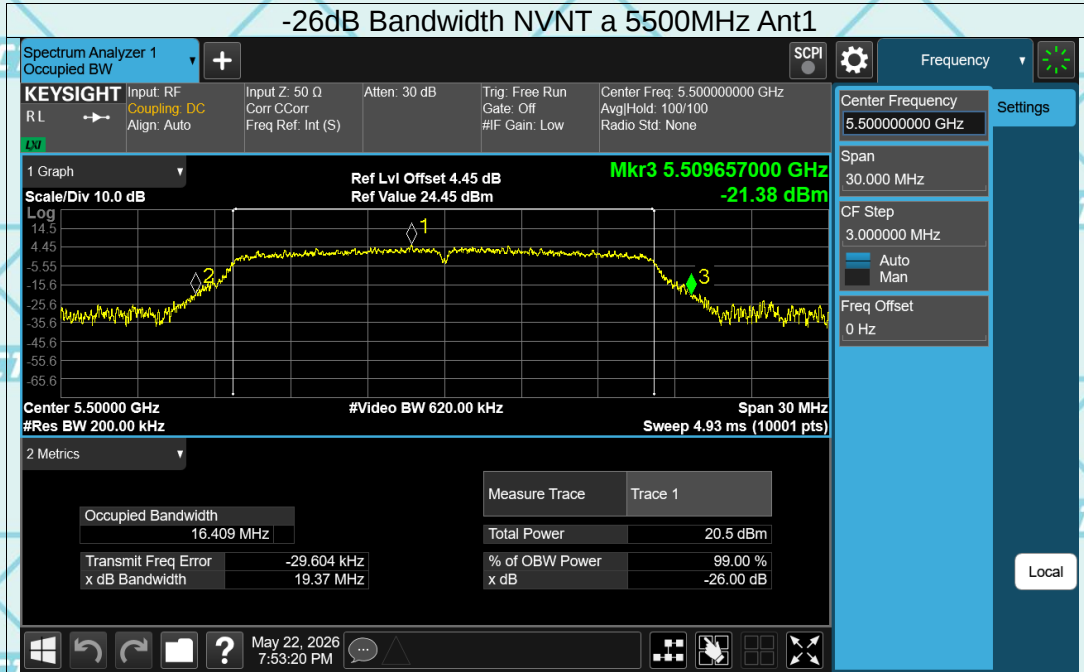
Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	99%dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	15.09	16.356	0.5	Pass
a	5825	14.22	16.354	0.5	Pass
n20	5745	15.36	17.549	0.5	Pass
n20	5825	15.46	17.538	0.5	Pass
n40	5755	35.03	35.826	0.5	Pass
n40	5795	35.13	35.857	0.5	Pass
ac20	5745	14.15	17.550	0.5	Pass
ac20	5825	13.84	17.541	0.5	Pass
ac40	5755	35.06	35.815	0.5	Pass
ac40	5795	33.88	35.869	0.5	Pass
ac80	5775	73.86	75.140	0.5	Pass

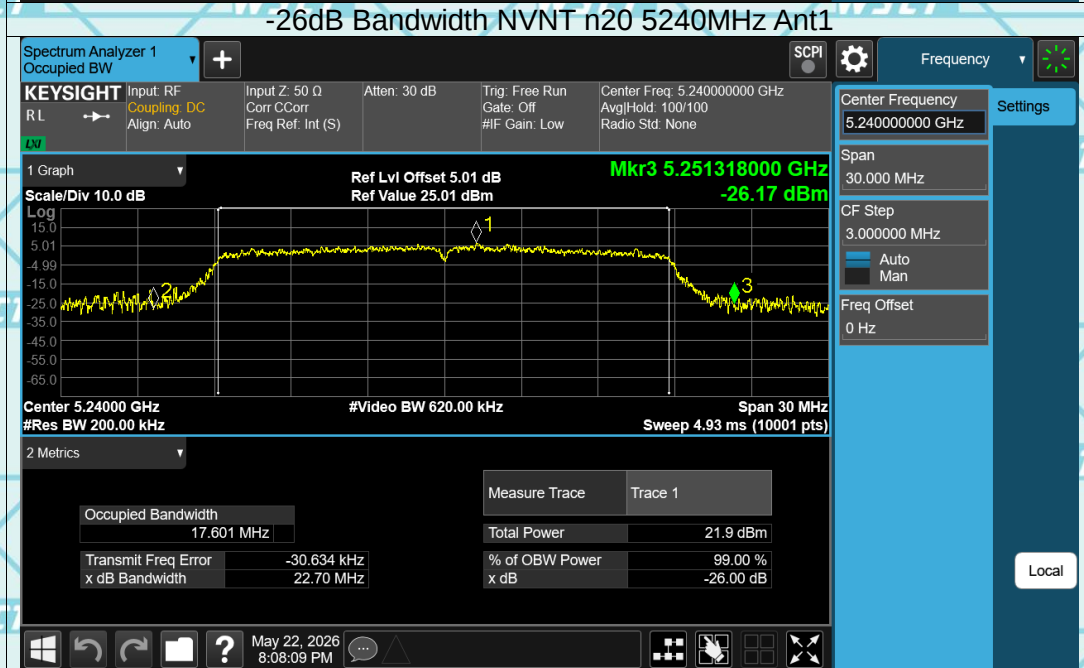
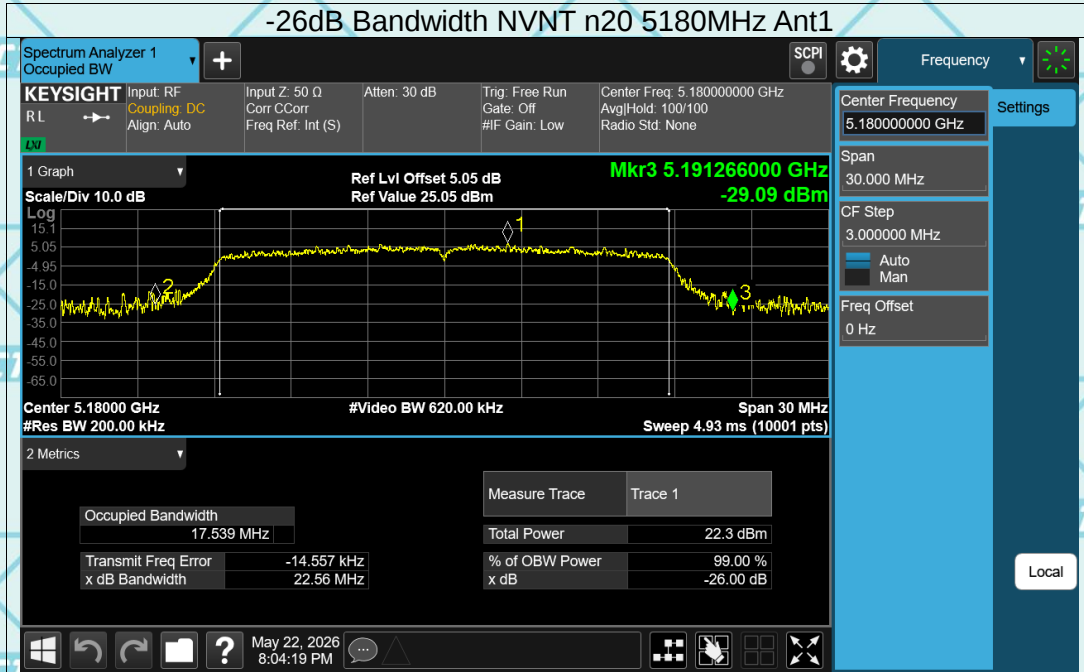
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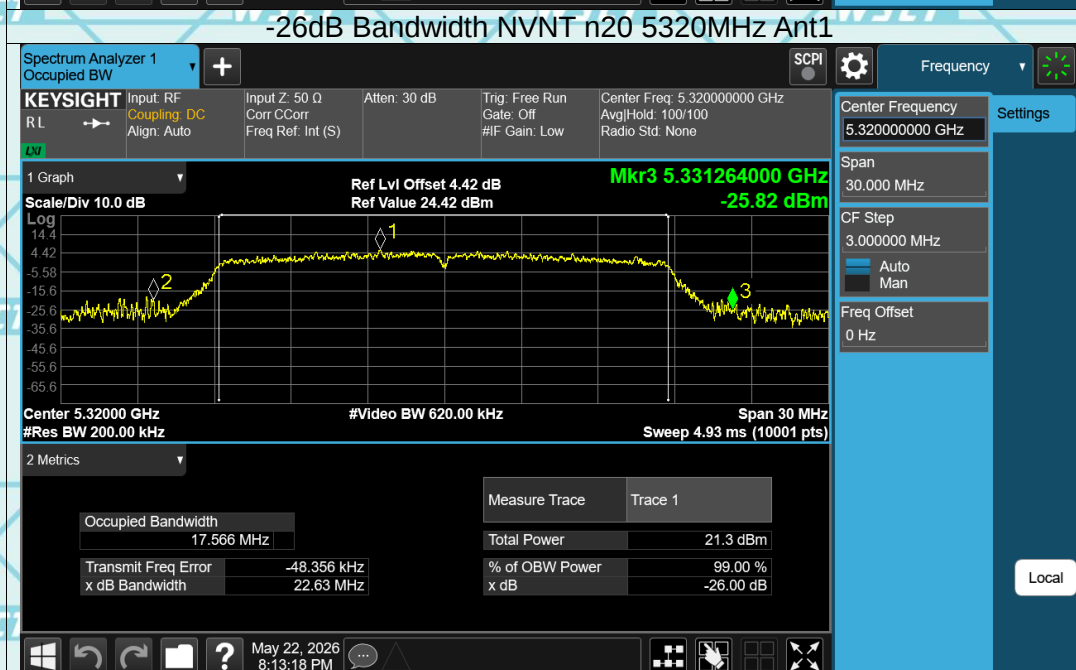
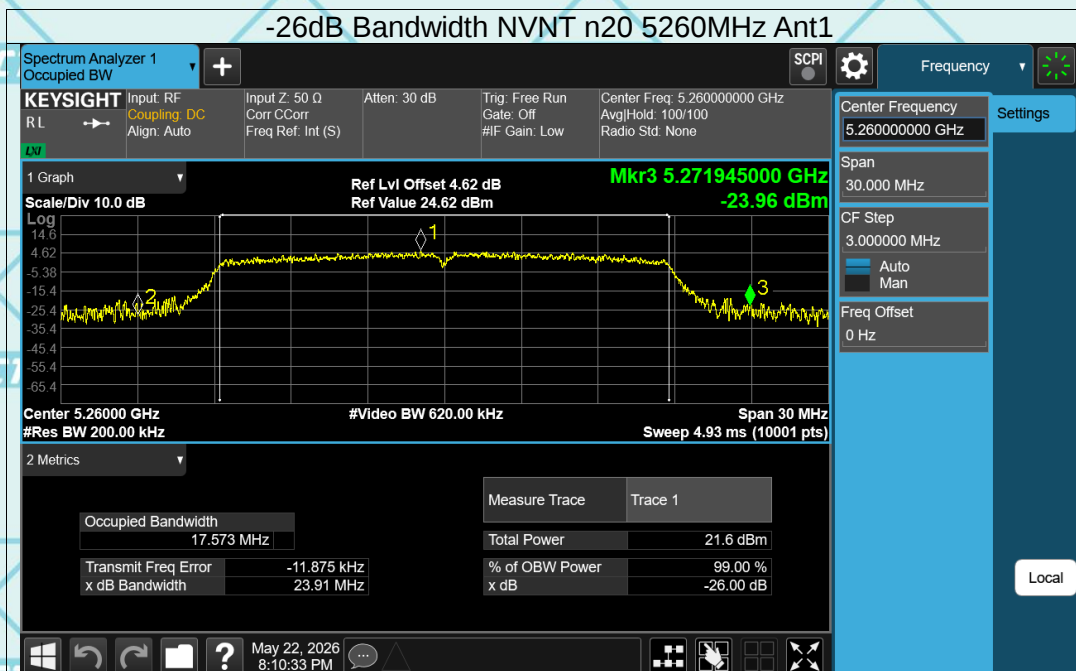
-26Db&99% Bandwidth

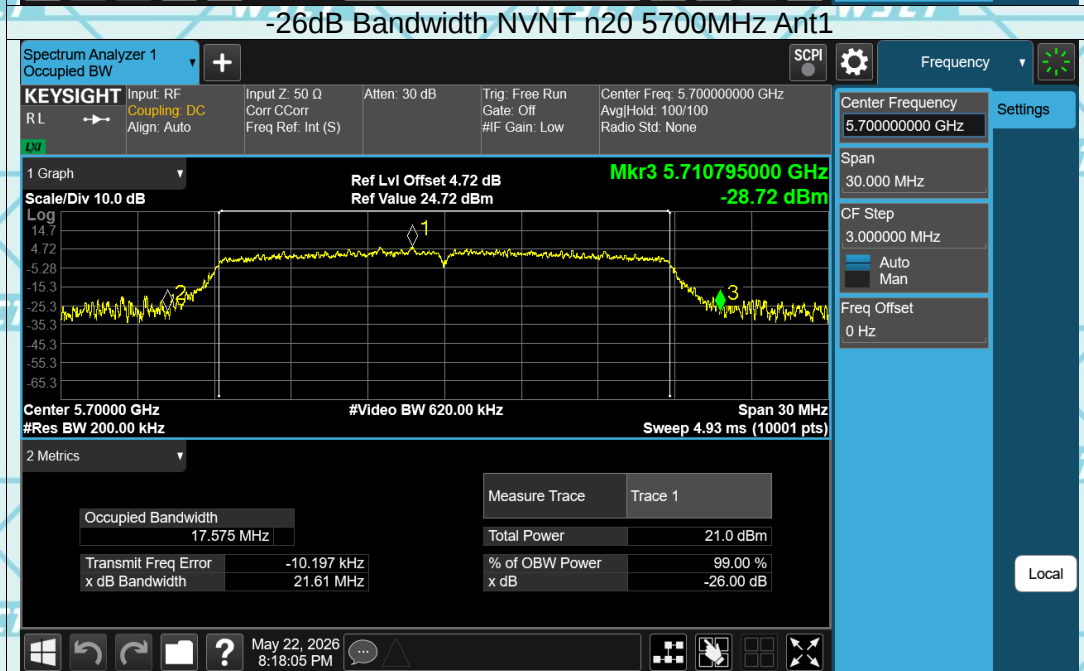
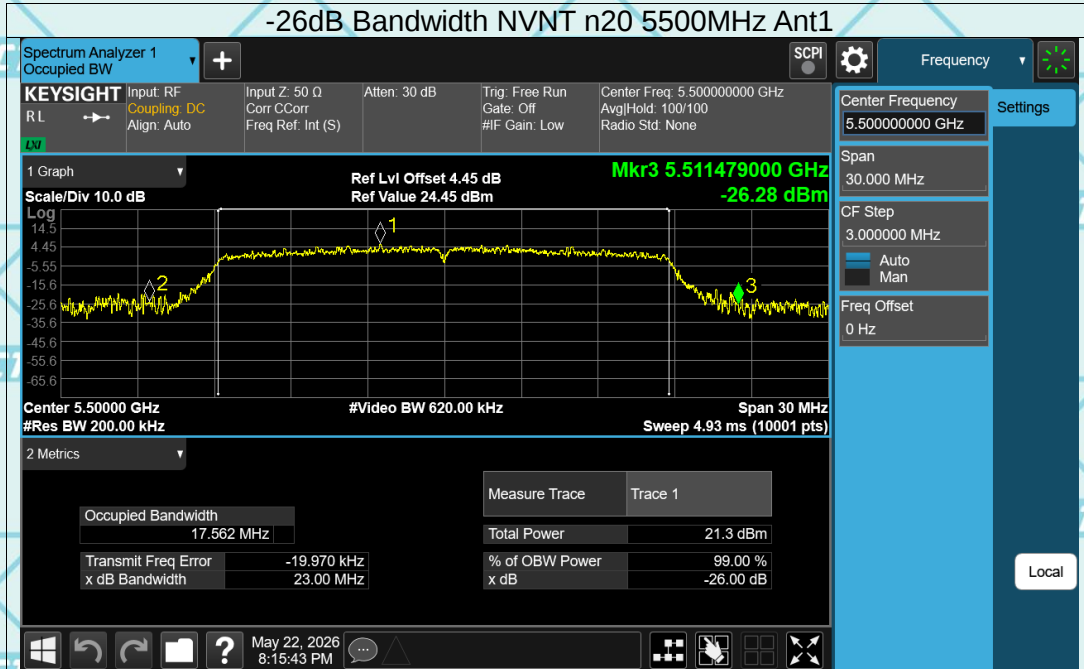


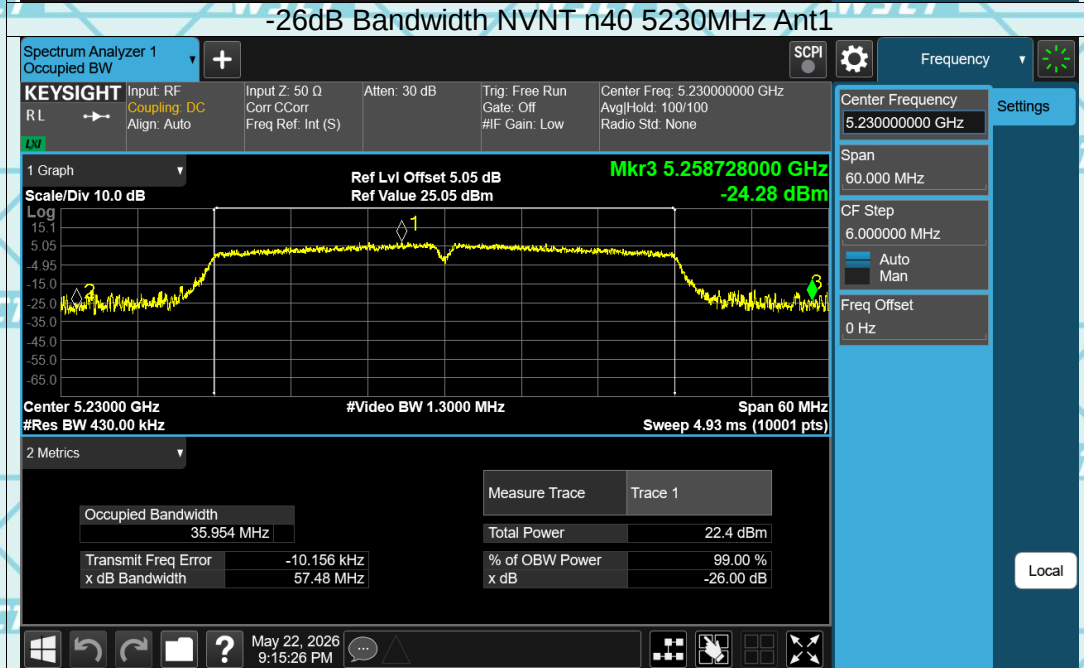
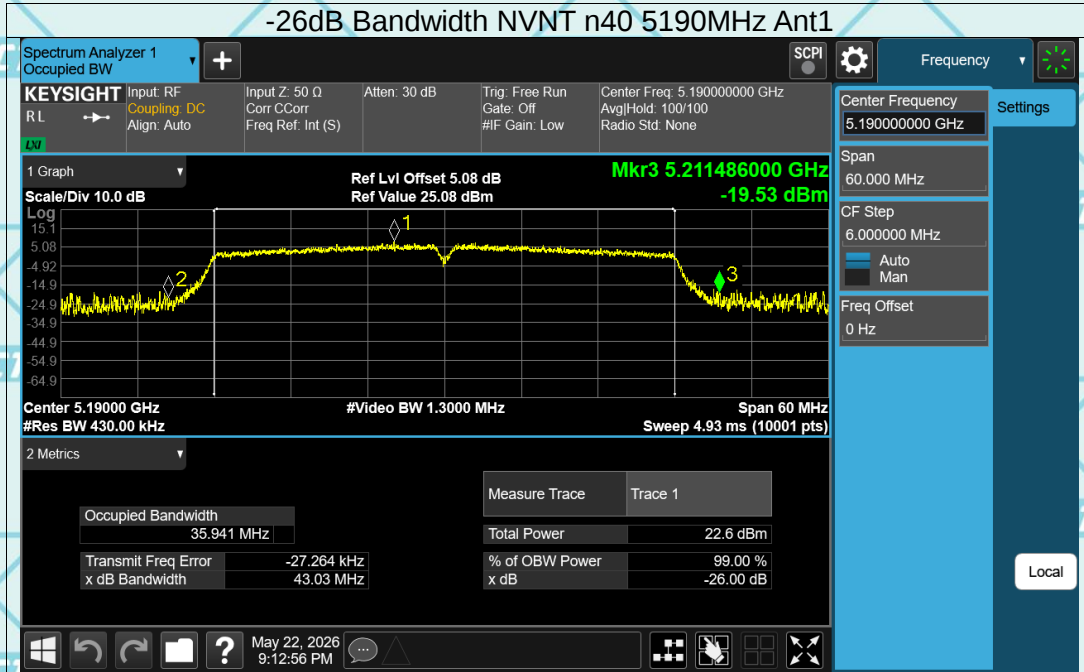


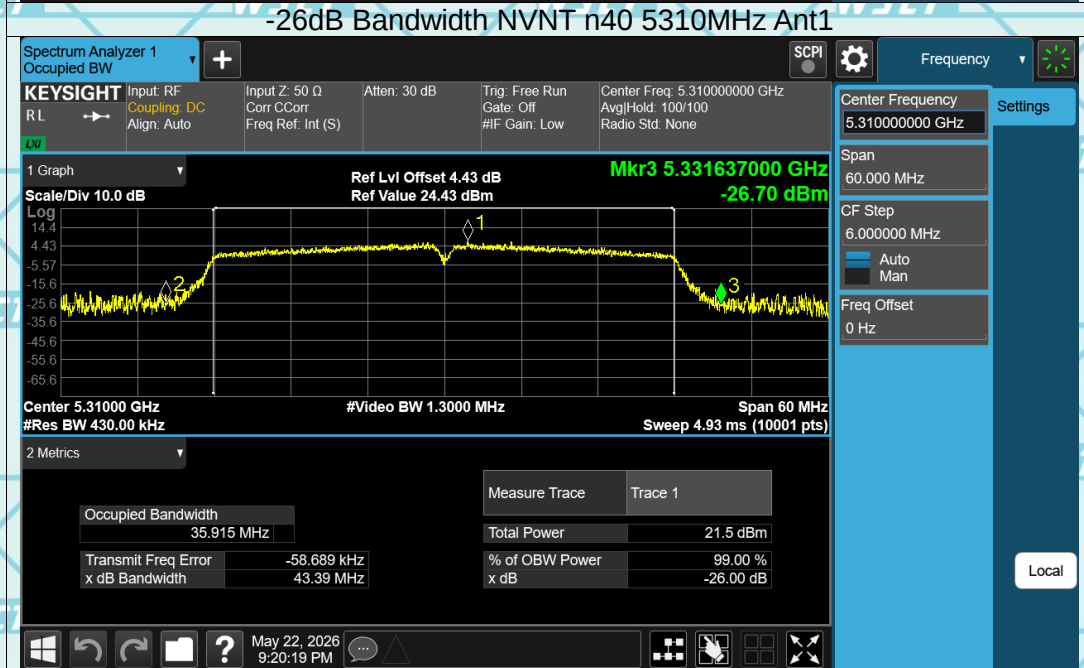
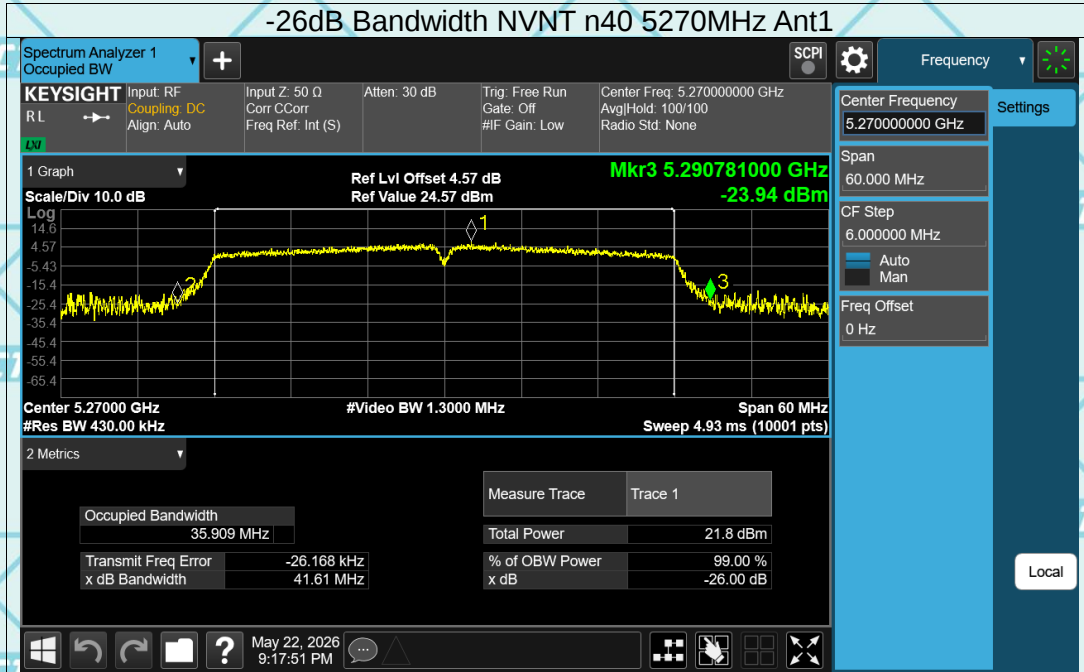


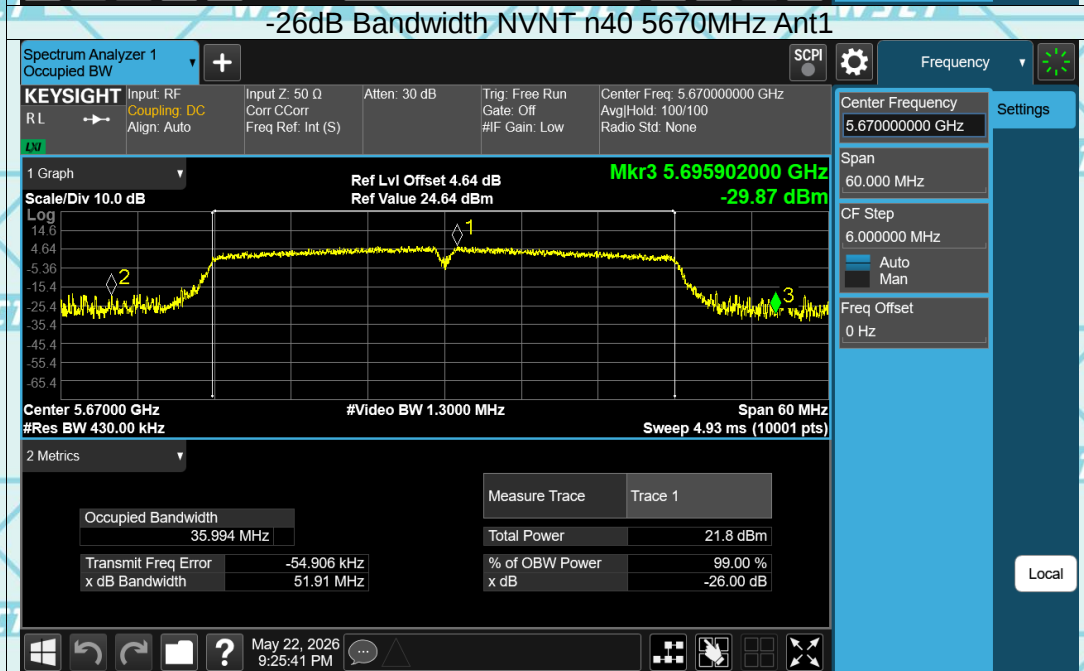
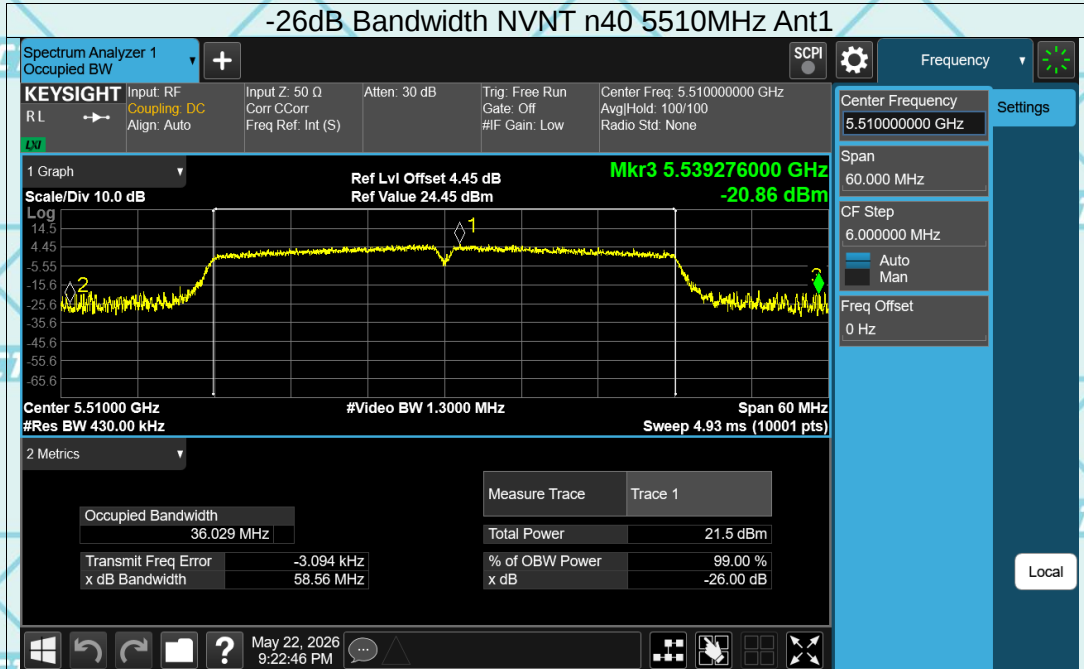


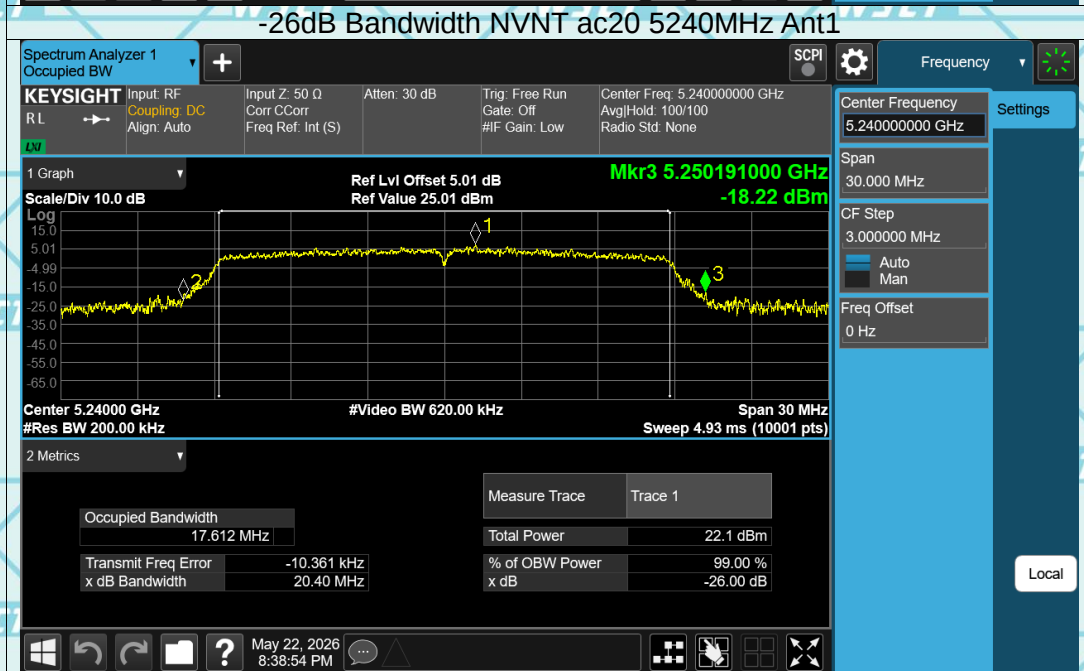
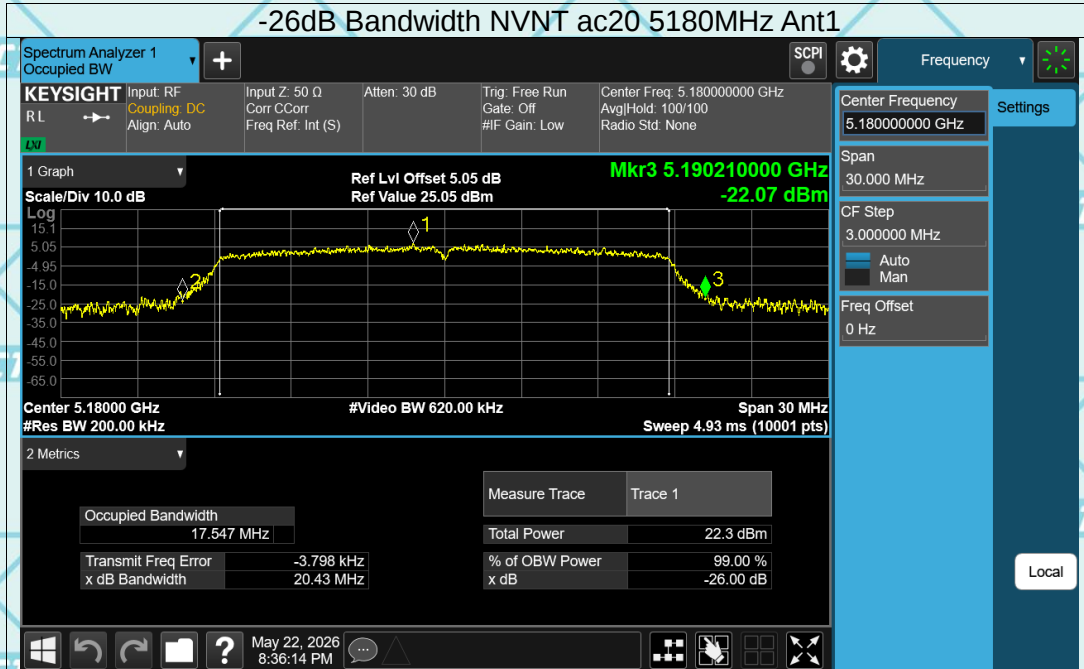


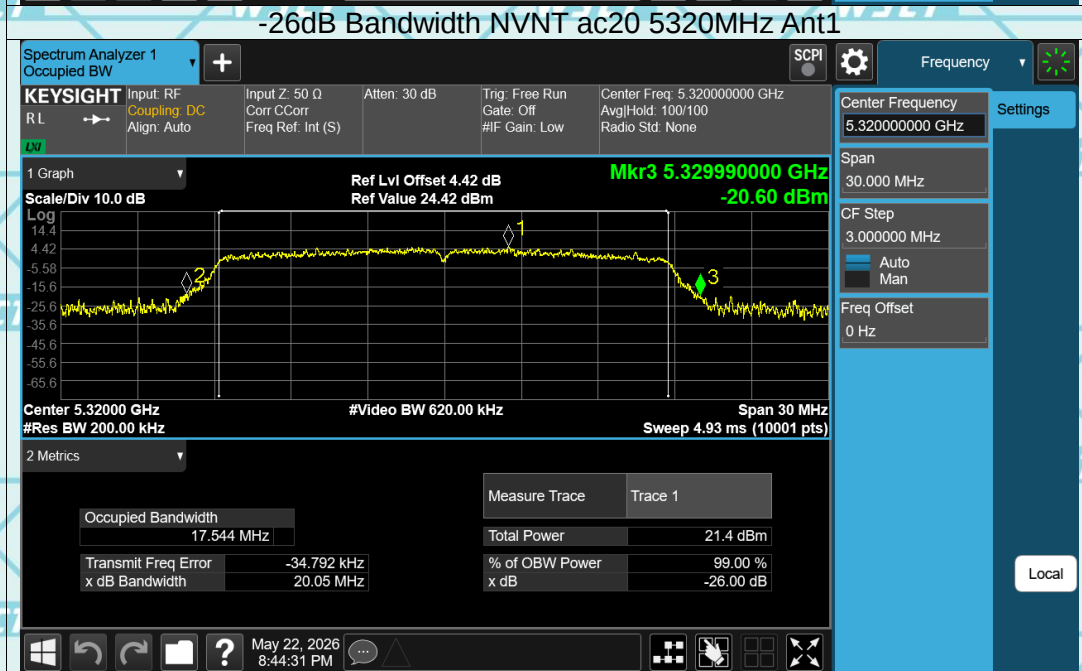
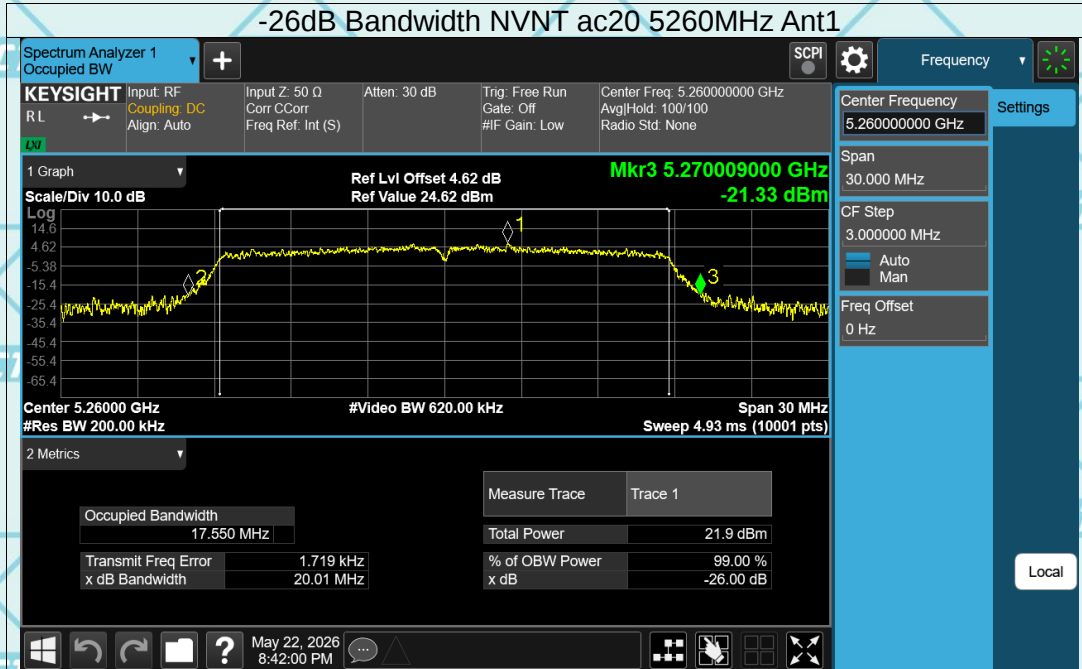


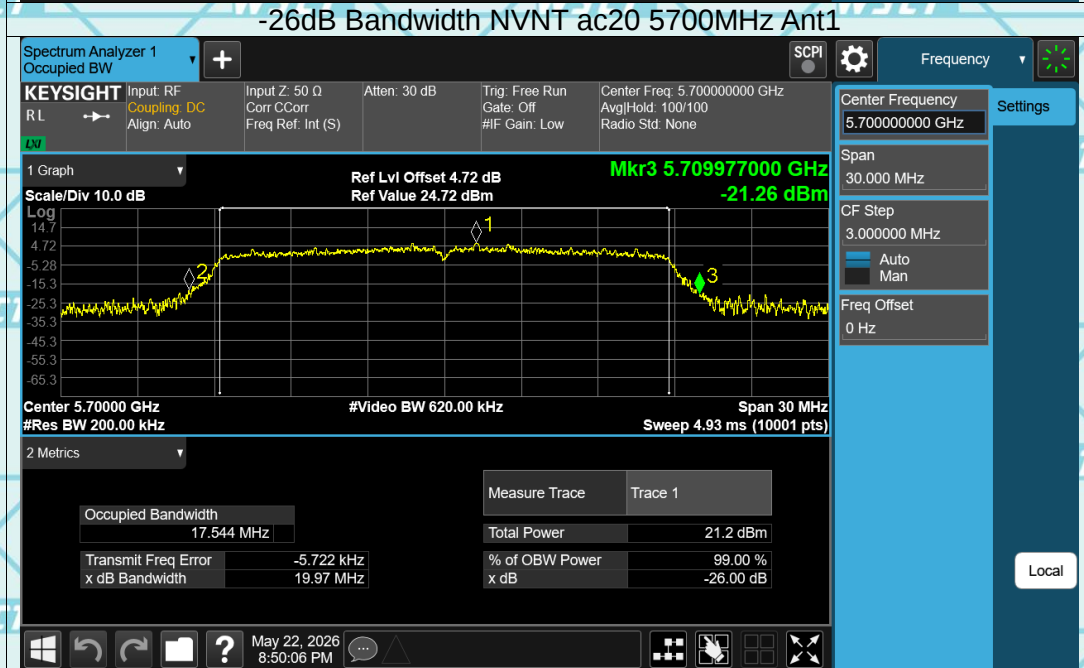
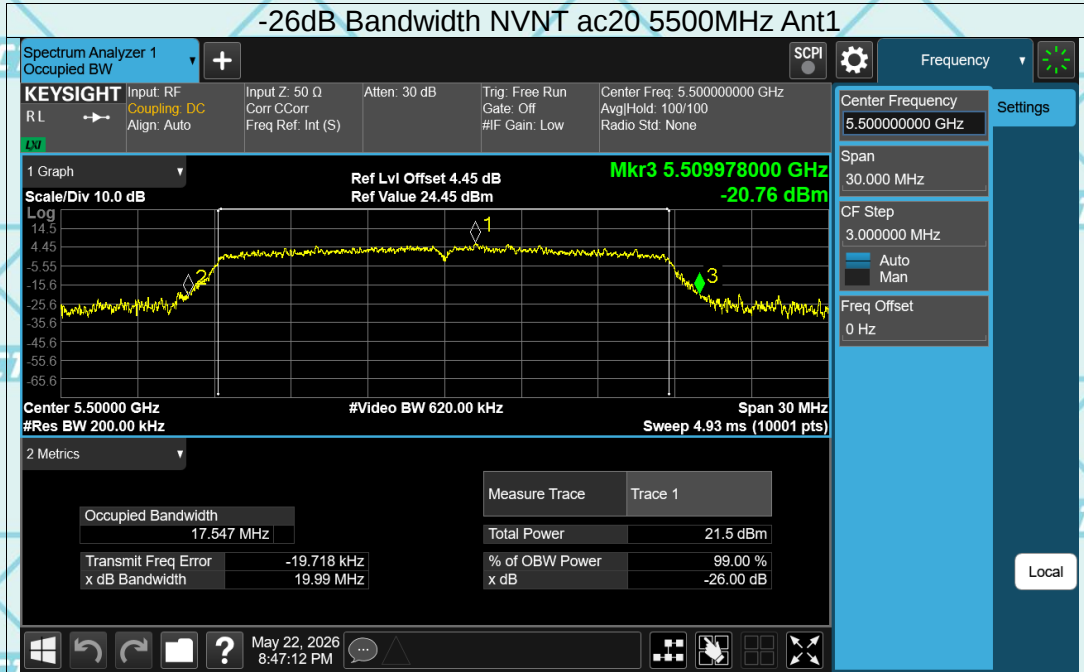


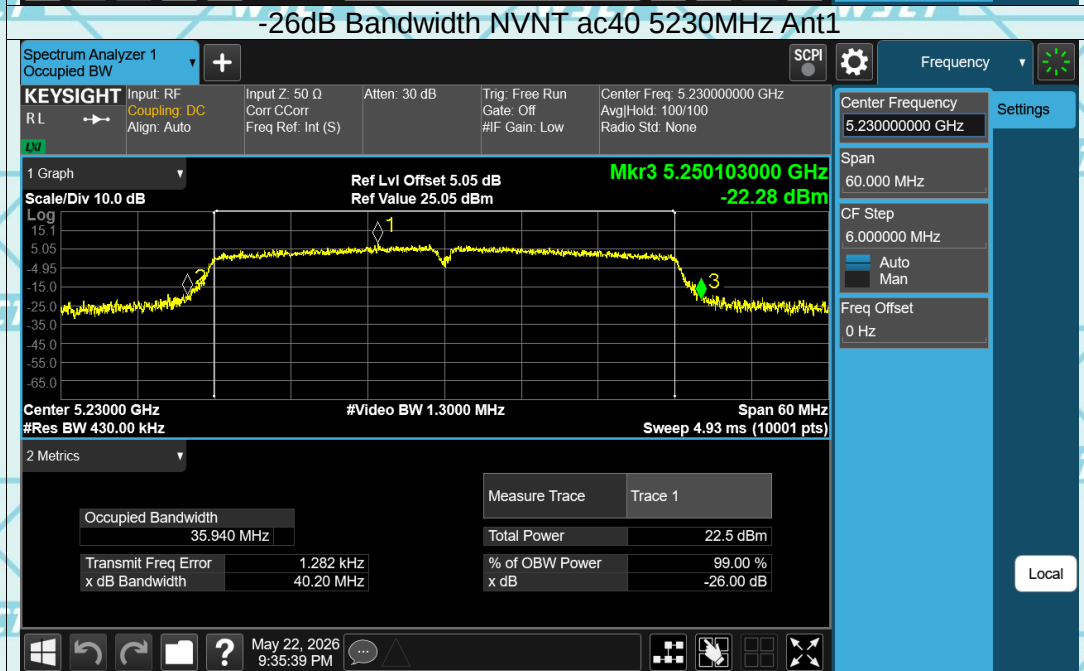
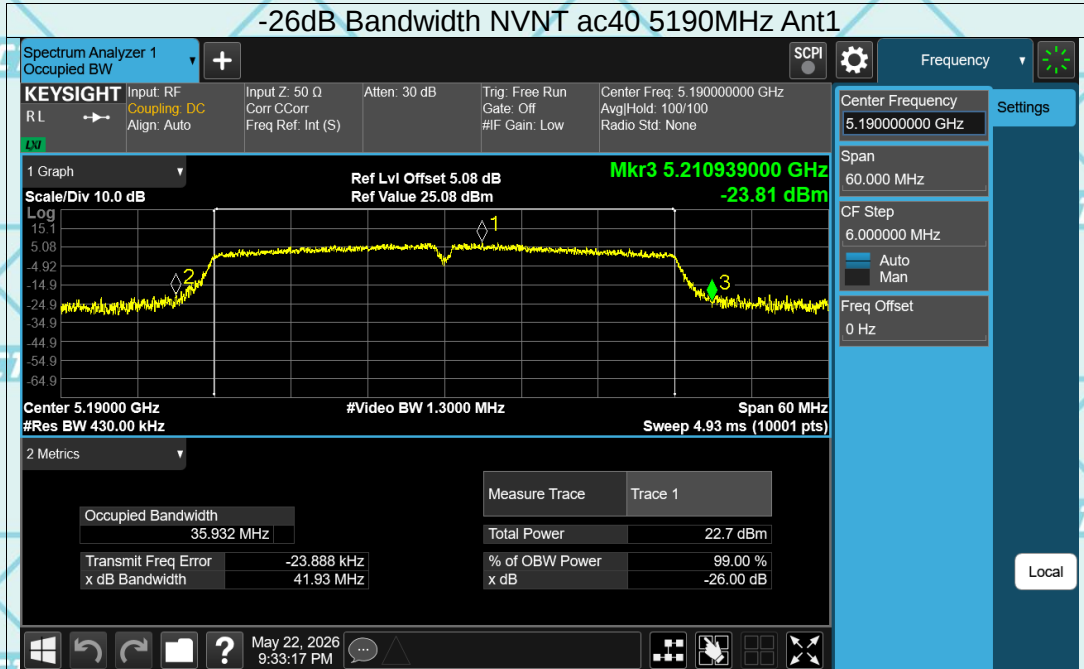


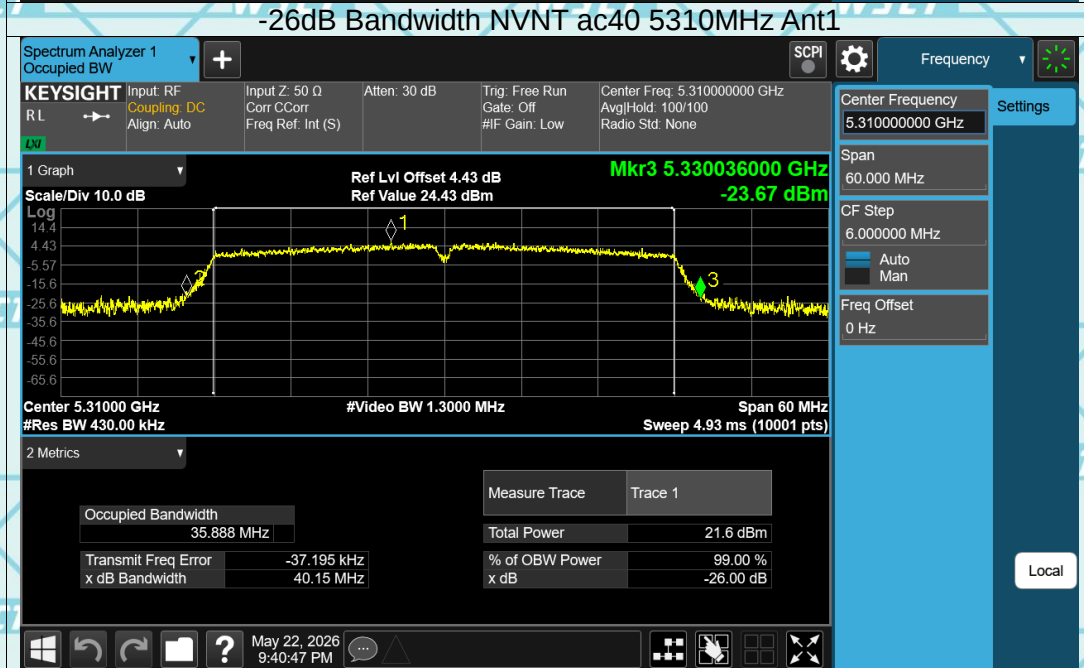
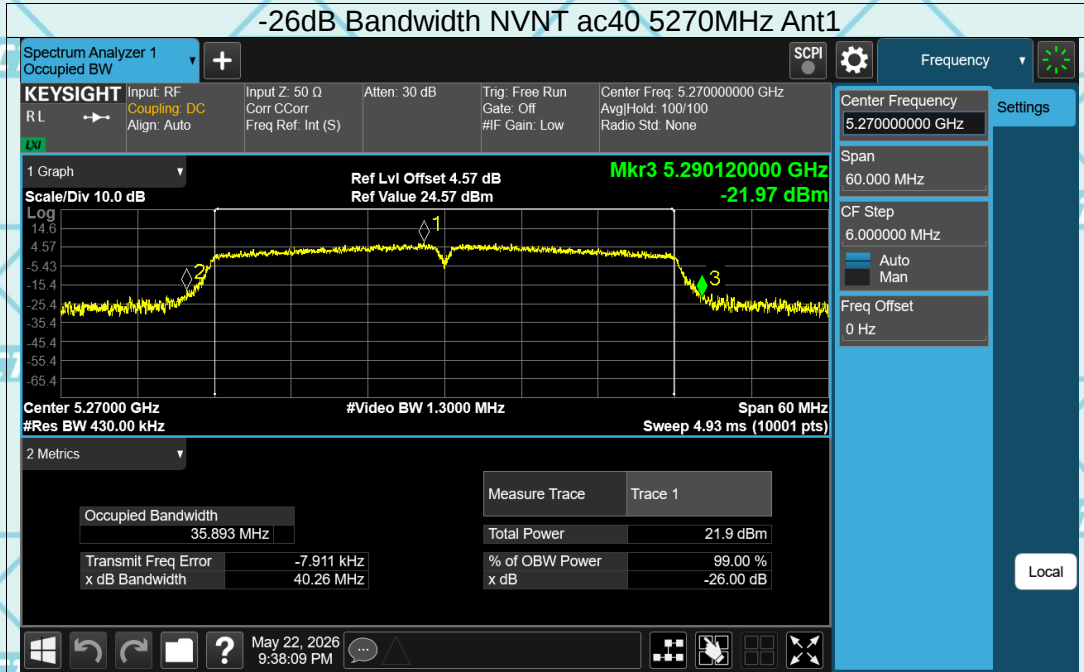


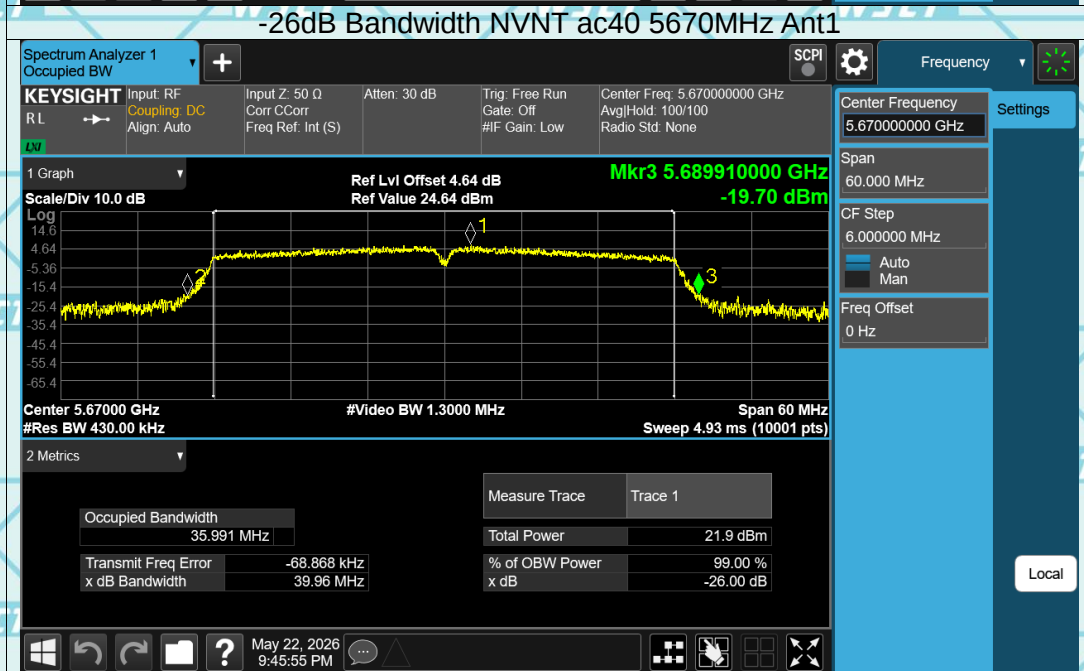
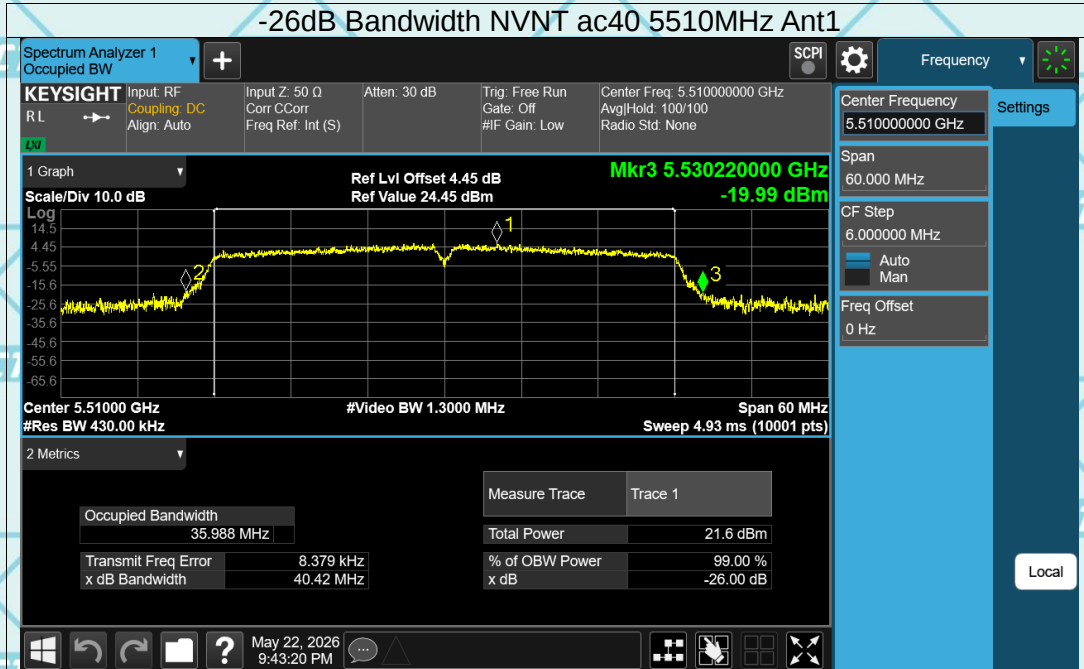


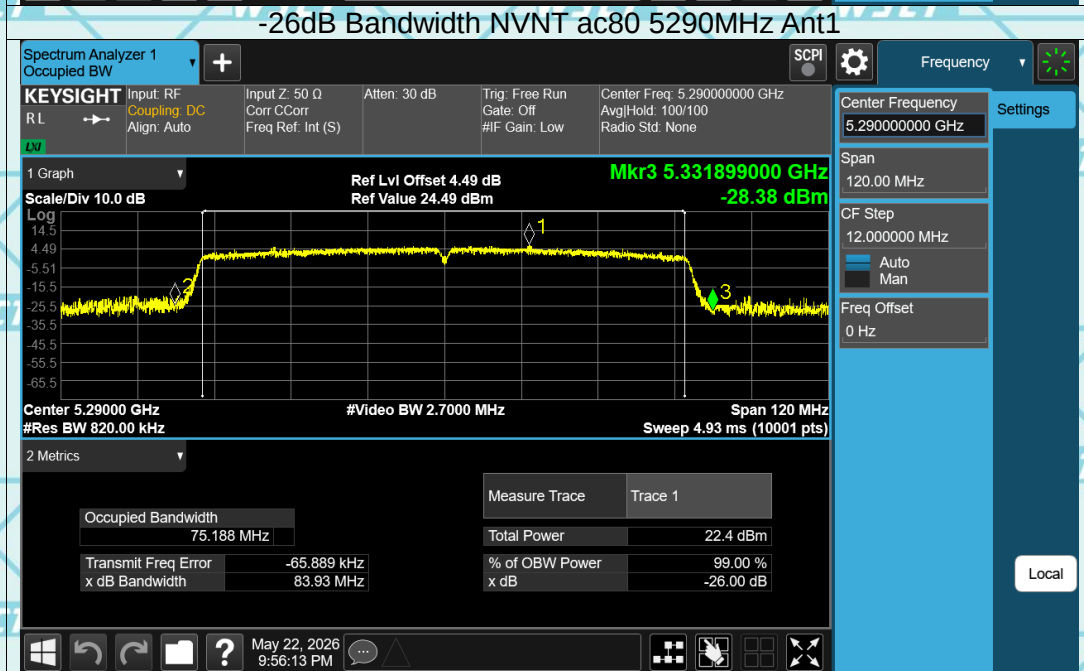
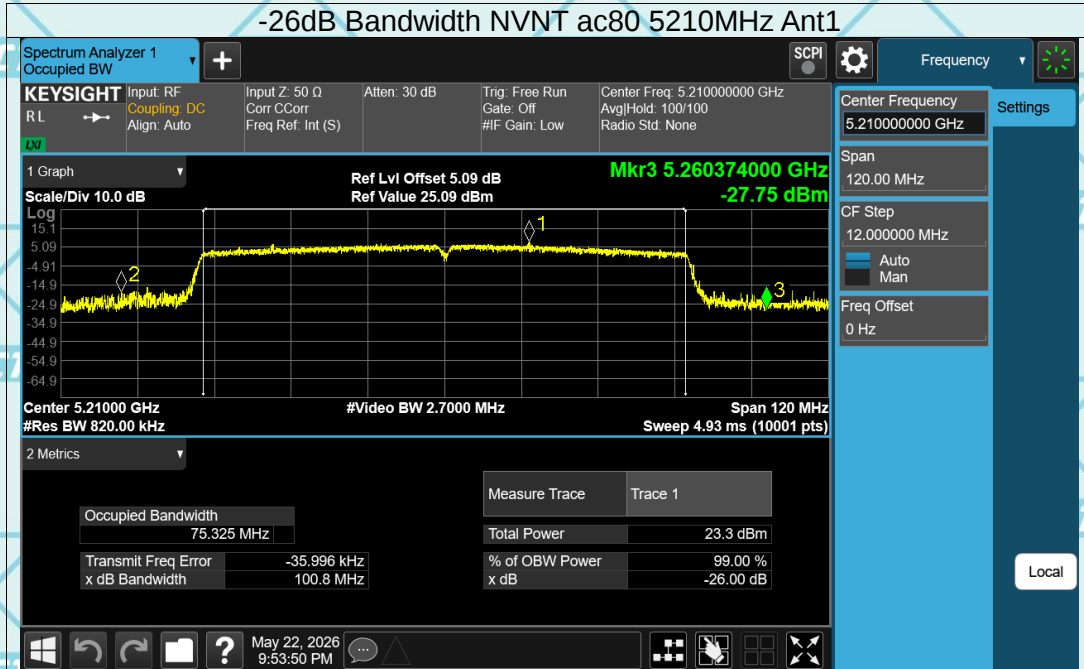


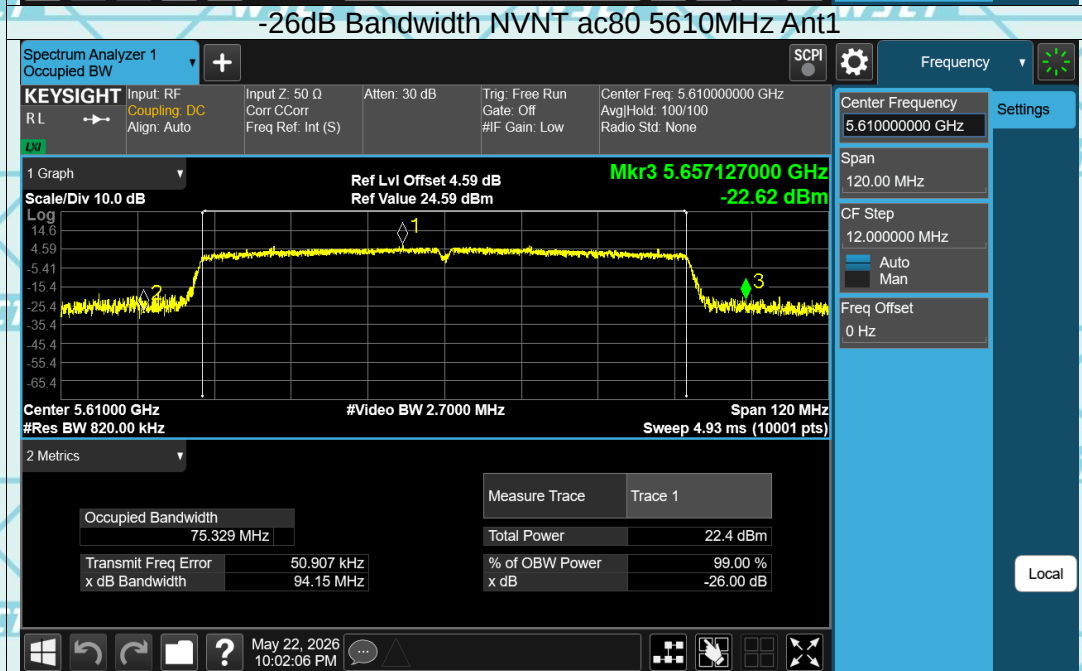
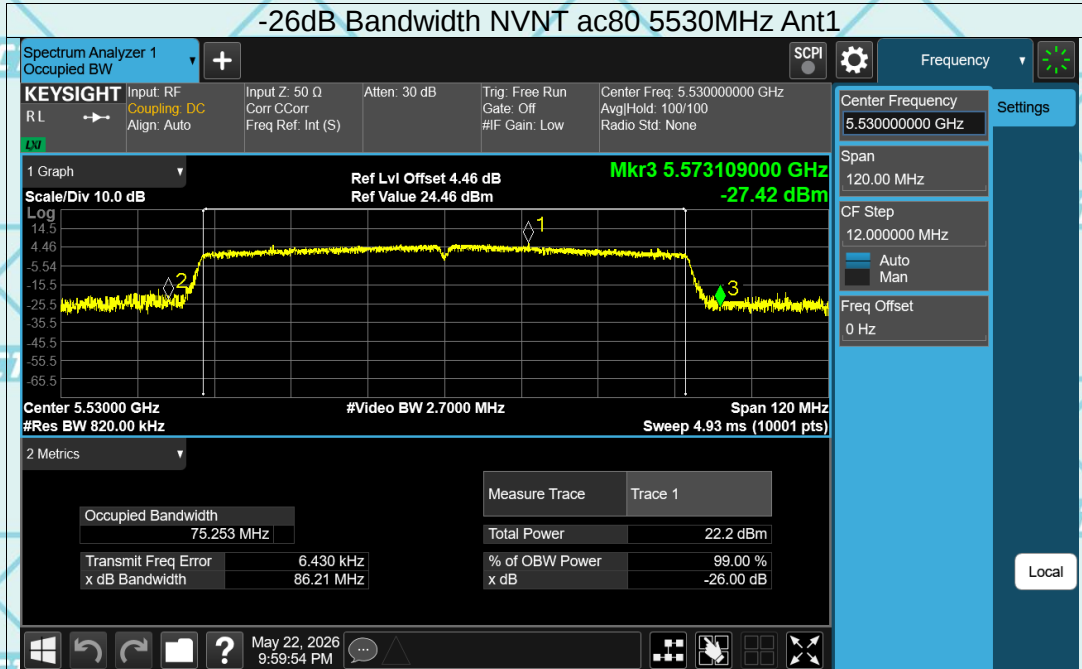








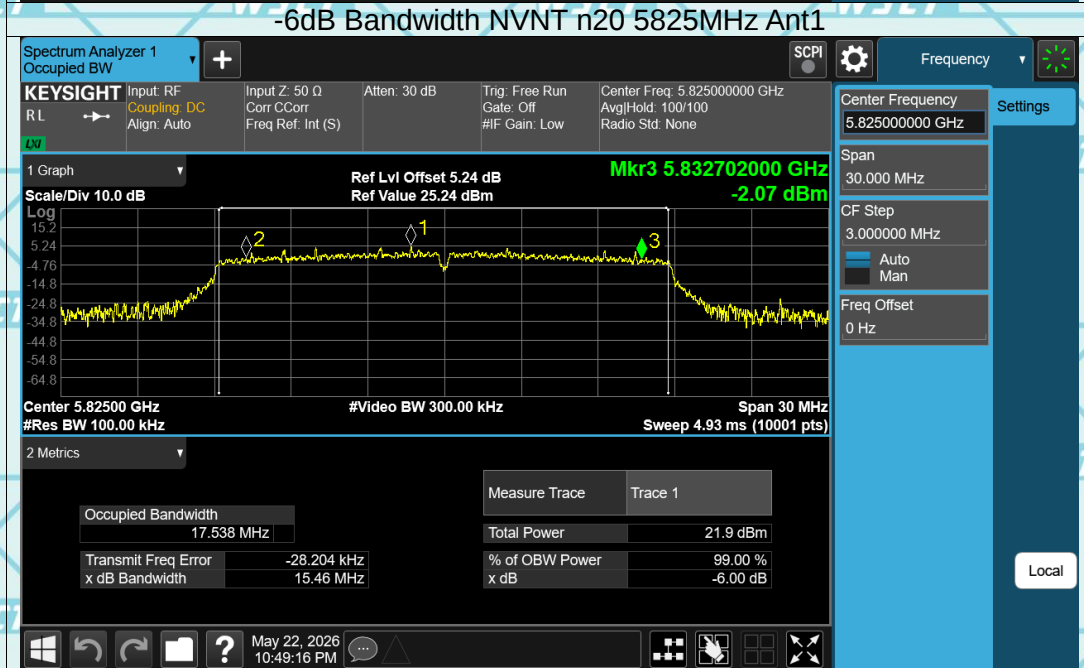
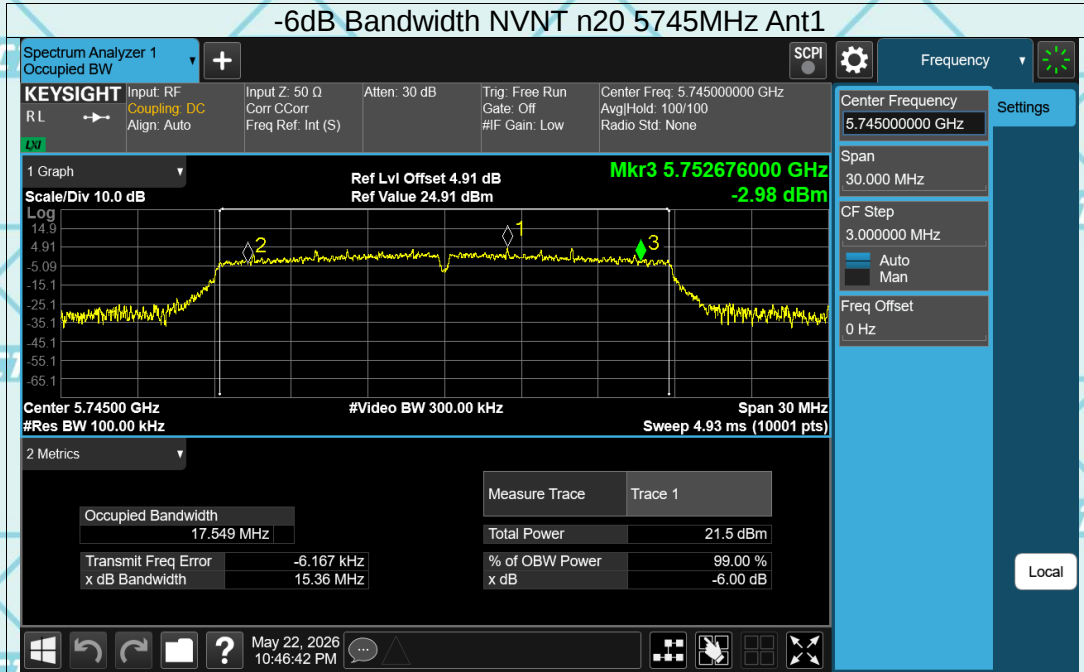


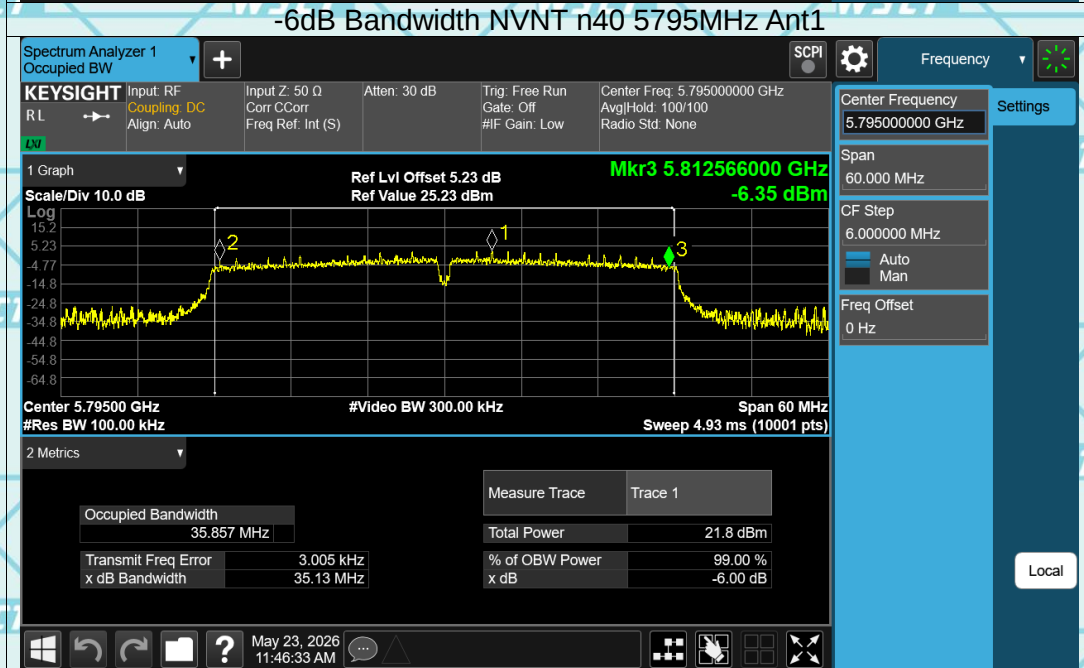
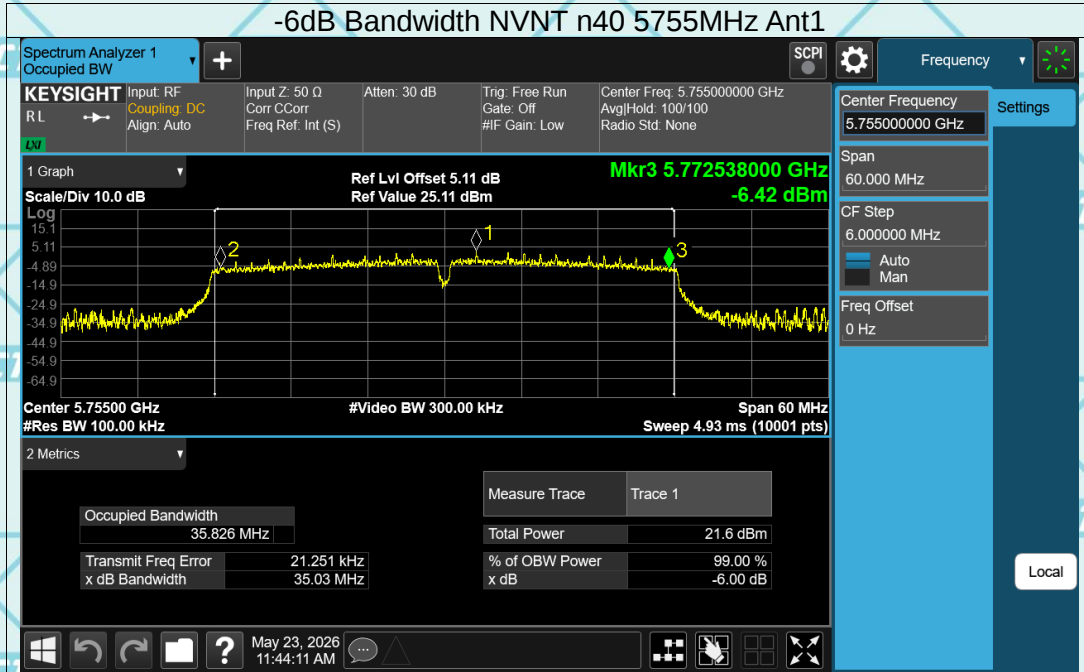


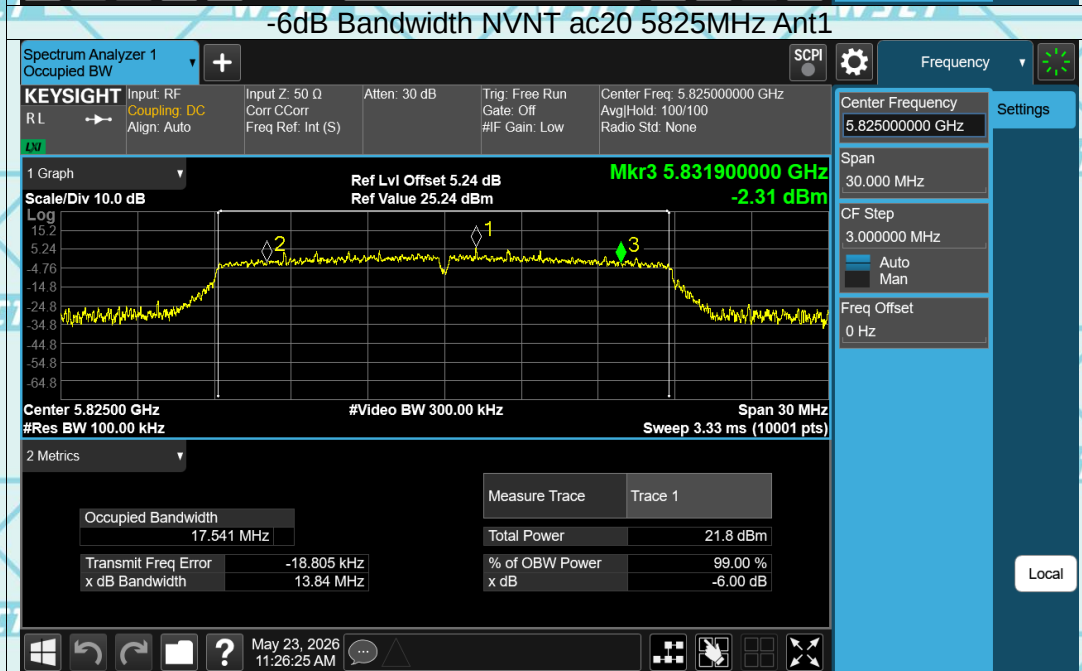
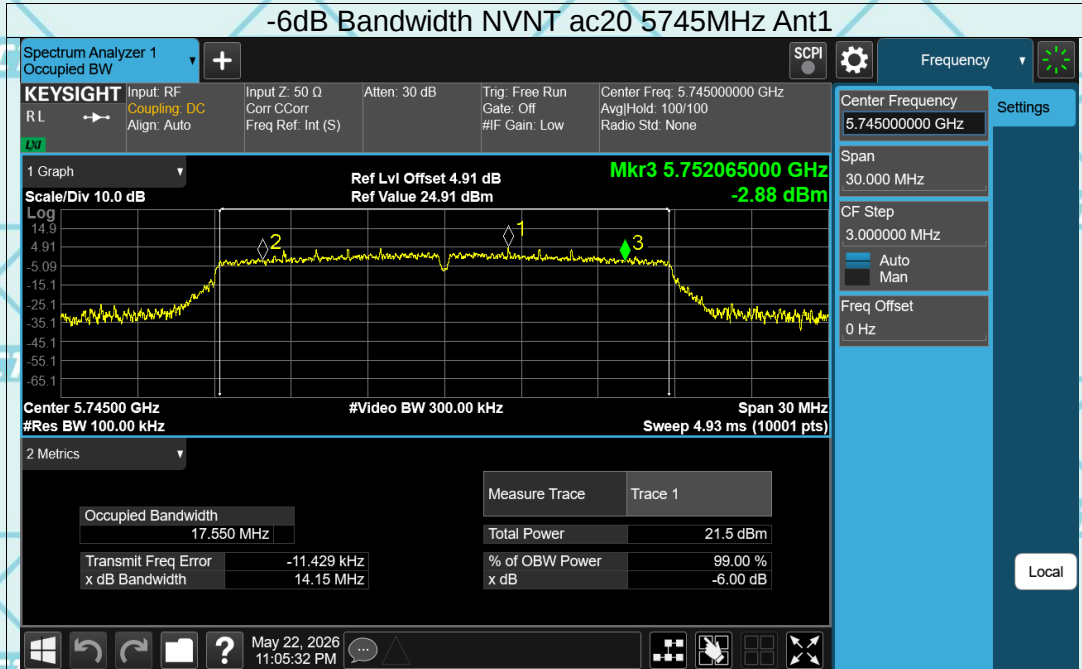
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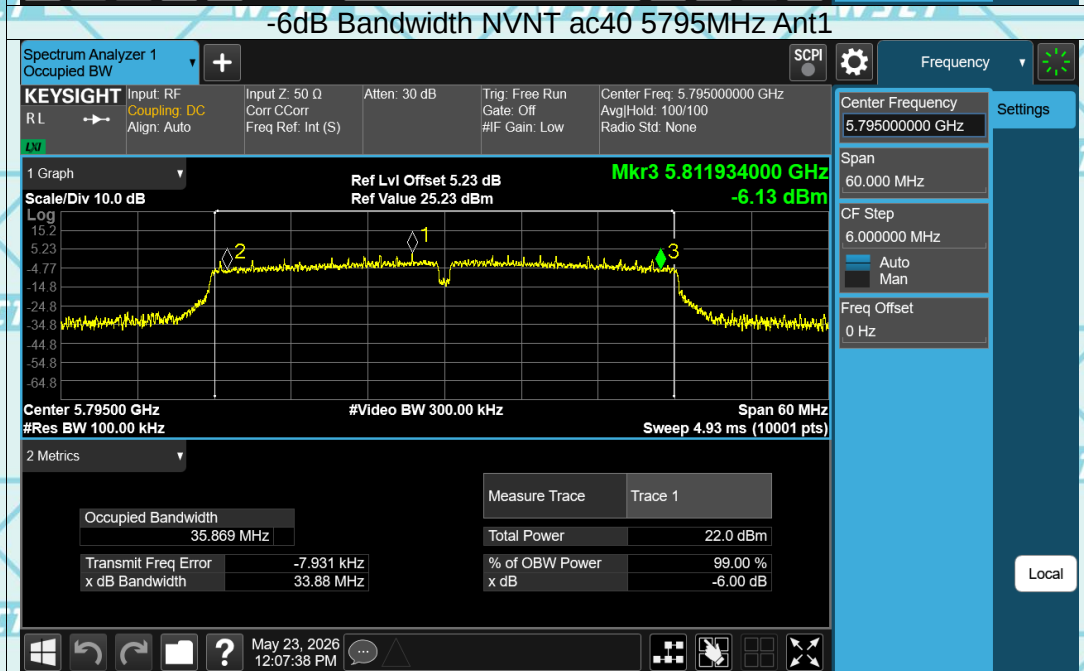
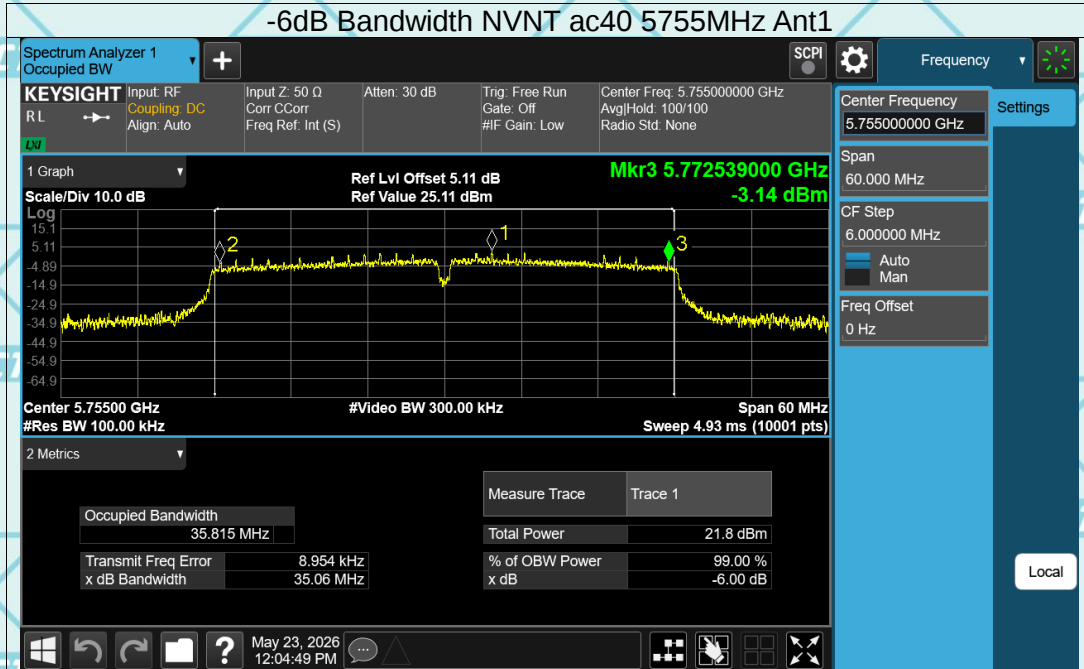
-6dB&99% Bandwidth

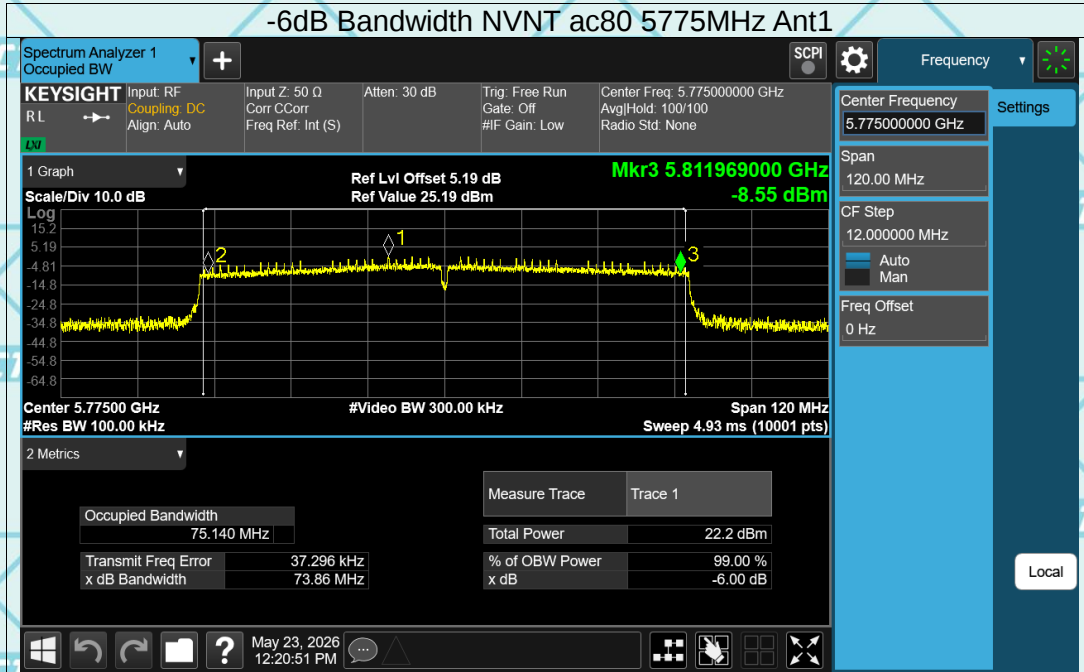












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7.6 MAXIMUM CONDUCTED OUTPUT POWER

Product	: EUT-Sample	Test Mode	: See section 3.4
Test Item	: Maximum Conducted Output Power	Temperature	: 25 °C
Test Voltage	: DC 3.91V	Humidity	: 56%RH
Test Result	: PASS		

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Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
a	5180	16.27	0	16.27	24	Pass
a	5240	16.12	0	16.12	24	Pass
a	5260	15.74	0	15.74	24	Pass
a	5320	15.17	0	15.17	24	Pass
a	5500	15	0	15	24	Pass
a	5700	14.86	0	14.86	24	Pass
a	5745	14.72	0	14.72	30	Pass
a	5825	15.15	0	15.15	30	Pass
n20	5180	16.86	0	16.86	24	Pass
n20	5240	16.51	0	16.51	24	Pass
n20	5260	16.28	0	16.28	24	Pass
n20	5320	15.64	0	15.64	24	Pass
n20	5500	15.76	0	15.76	24	Pass
n20	5700	15.7	0	15.7	24	Pass
n20	5745	15.55	0	15.55	30	Pass
n20	5825	15.96	0	15.96	30	Pass
n40	5190	16.77	0.27	17.04	24	Pass
n40	5230	16.67	0.28	16.95	24	Pass
n40	5270	16.03	0.28	16.31	24	Pass
n40	5310	15.75	0.27	16.02	24	Pass
n40	5510	15.67	0.27	15.94	24	Pass
n40	5670	16.07	0.27	16.34	24	Pass
n40	5755	16.02	0	16.02	30	Pass
n40	5795	16.14	0	16.14	30	Pass
ac20	5180	16.85	0	16.85	24	Pass
ac20	5240	16.5	0	16.5	24	Pass
ac20	5260	16.29	0	16.29	24	Pass
ac20	5320	15.83	0	15.83	24	Pass
ac20	5500	15.86	0	15.86	24	Pass
ac20	5700	15.9	0	15.9	24	Pass
ac20	5745	15.77	0	15.77	30	Pass
ac20	5825	15.97	0	15.97	30	Pass
ac40	5190	16.69	0	16.69	24	Pass
ac40	5230	16.6	0	16.6	24	Pass
ac40	5270	15.98	0	15.98	24	Pass
ac40	5310	15.7	0	15.7	24	Pass
ac40	5510	15.75	0	15.75	24	Pass
ac40	5670	16.04	0	16.04	24	Pass
ac40	5755	16.04	0	16.04	30	Pass
ac40	5795	15.98	0	15.98	30	Pass
ac80	5210	16.46	0	16.46	24	Pass
ac80	5290	15.61	0	15.61	24	Pass
ac80	5530	15.47	0	15.47	24	Pass
ac80	5610	15.69	0	15.69	24	Pass
ac80	5775	15.71	0	15.71	30	Pass



