RF TEST REPORT

Applicant	Quectel Wireless Solutions Company Limited
FCC ID	XMR202309AF55C
Product	Wi-Fi & Bluetooth Module
Brand	Quectel
Model	AF55C
Report No.	R2411A1826-R3
Issue Date	December 25, 2024

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2023)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of measurement results

Number	Test Case	Clause in FCC rules	Verdict
1	Average output power	15.407(a)	PASS
2	Occupied bandwidth	15.407(e)	PASS
3	Frequency stability	15.407(g)	PASS
4	Power spectral density	15.407(a)	PASS
5	Unwanted Emissions	15.407(b)	PASS
6	Conducted Emissions	15.207	PASS
Date of Testing: September 20, 2023 ~ November 20, 2023 Date of Sample Received: September 11, 2023			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

AF55C (Report No.: R2411A1826-R3) is a variant model of AF55C (Report No.: R2308A0966-R3V2).
The difference between the two models is shown in the table below:

Item	Original	Variant
HW Version	R1.0	R1.1
Filter	IC RF BPF WIFI&BT 2400-2500MHZ34dBm PINS551.1x0.9mm H0.6mm RO	IC RF TX filter WLAN 2.4G 36dBm1.1x0.9mm H0.7mm RO
Voltage	Max 3.8 V	Max 4.8 V
Others	The same	

This report tests Radiated Emission (30MHz ~ 1GHz, 802.11ax HE80 CH106 for MIMO), and did not worsen, so they were not recorded in the report.
Test values all duplicated from original report (Report No.: R2308A0966-R3V2).

The detailed product change description please refers to the *Difference Declaration Letter.*

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1. Test Laboratory

1.1. Notes of the test report

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1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3. Testing Location

Company:	Eurofins TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
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2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Quectel Wireless Solutions Company Limited
Applicant address	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China, 200233
Manufacturer	Quectel Wireless Solutions Company Limited
Manufacturer address	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China, 200233

2.2. General information

EUT Description			
Model	AF55C		
SN	Conducted	P1C23GK0B001141	
	Radiated	P1C23GK0B000182	
Hardware Version	R1.1		
Software Version	NA		
Power Supply	External power supply		
Antenna Type	Dipole Antenna		
Antenna Connector	RP SMA Male antenna (meet with the standard FCC Part 15.203 requirement)		
Antenna Gain	U-NII-1: -0.9dBi U-NII-2A: -1.4dBi U-NII-2C: -0.3dBi U-NII-3: 0.4dBi		
Additional Beamforming Gain	NA		
Directional Gain	Power	U-NII-1	-0.9dBi
		U-NII-2A	-1.4dBi
		U-NII-2C	-0.3dBi
		U-NII-3	0.4dBi
	PSD	U-NII-1	2.11dBi
		U-NII-2A	1.61dBi
		U-NII-2C	2.71dBi
		U-NII-3	3.41dBi
Operating Frequency Range(s)	U-NII-1: 5150MHz-5250MHz U-NII-2A: 5250MHz -5350MHz U-NII-2C: 5470MHz-5600MHz, 5650MHz-5725MHz U-NII-3: 5725MHz -5850MHz		

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Modulation Type	802.11a: OFDM 802.11n(HT20/HT40): OFDM 802.11ac(VHT20/VHT40/VHT80): OFDM 802.11ax (Support Full RU only) (HE20/HE40/HE80): OFDM
Max. Output Power	19.11 dBm
Testing temperature range	-30 ° C to 50° C
Operating temperature range	-40 ° C to 85 ° C
Operating voltage range	3 V to 4.8 V
State voltage	3.3 V
Auxiliary test equipment	
Switching Adapter	Manufacturer: Dong Guan City GangQi Electronic Co.Ltd Model: GQ36-120300-AX

Note:
1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.
2. This device support automatically discontinue transmission, while the device is not transmitting any information, the device can automatically discontinue transmission and become standby mode for power saving. The device can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.
3. (a) Manufacturers implements security features in any digitally modulated devices capable of operating in any of the U-NII bands, so that third parties are not able to reprogram the device to operate outside the parameters for which the device was certified. The software prevents the user from operating the transmitter with operating frequencies, output power, modulation types or other radio frequency parameters outside those that were approved for the device. Manufacturers uses means including, but not limited to the use of a private network that allows only authenticated users to download software, electronic signatures in software or coding in hardware that is decoded by software to verify that new software can be legally loaded into a device to meet these requirements and must describe the methods in their application for equipment authorization.
(b) Manufacturers take steps to ensure that DFS functionality cannot be disabled by the operator of the U-NII device.

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3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15E (2023) Unlicensed National Information Infrastructure Devices

ANSI C63.10-2013

Reference standard:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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4. Test Configuration

Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The radiated emission was measured in the following position: EUT stand-up position (vertical), lie-down position (horizontal). The worst emission was found in stand-up position (vertical) and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Mode	Data Rate		
	Antenna 1	Antenna 2	MIMO
802.11a	6 Mbps	6 Mbps	/
802.11n HT20	MCS0	MCS0	MCS8
802.11n HT40	MCS0	MCS0	MCS8
802.11ac VHT20	MCS0	MCS0	MCS0
802.11ac VHT40	MCS0	MCS0	MCS0
802.11ac VHT80	MCS0	MCS0	MCS0
802.11ax HE20	MCS0	MCS0	MCS0
802.11ax HE40	MCS0	MCS0	MCS0
802.11ax HE80	MCS0	MCS0	MCS0

The worst case Antenna mode for each of the following tests for Wi-Fi:

Test Cases	Antenna 1	Antenna 2	MIMO
Average conducted output power	O	O	802.11n HT20/40 802.11ac VHT20/40/80 802.11ax HE20/40/80
Occupied bandwidth	--	802.11a	802.11n HT20/40 802.11ac VHT20/40/80 802.11ax HE20/40/80
Frequency stability	--	802.11a	--
Power Spectral Density	O	O	802.11n HT20/40 802.11ac VHT 20/40/80 802.11ax HE20/40/80
Unwanted Emissions	802.11a	--	802.11ac VHT 40/80 802.11ax HE80
Conducted Emissions	--	--	802.11ax HE40, Channel 118
Note: “O”: test all bands			

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Wireless Technology and Frequency Range

Wireless Technology		Bandwidth	Channel	Frequency
Wi-Fi	U-NII-1	20 MHz	36	5180MHz
			40	5200MHz
			44	5220MHz
			48	5240MHz
		40 MHz	38	5190MHz
			46	5230MHz
		80 MHz	42	5210MHz
	U-NII-2A	20 MHz	52	5260MHz
			56	5280MHz
			60	5300MHz
			64	5320MHz
		40 MHz	54	5270MHz
			62	5310MHz
		80 MHz	58	5290MHz
	U-NII-2C	20 MHz	100	5500MHz
			104	5520MHz
			108	5540MHz
			112	5560MHz
			116	5580MHz
			132	5660MHz
			136	5680MHz
			140	5700MHz
			144	5720MHz
		40 MHz	102	5510MHz
			110	5550MHz
			134	5670MHz
			142	5710MHz
		80 MHz	106	5530MHz
			138	5690MHz
	U-NII-3	20 MHz	149	5745MHz
			153	5765MHz
			157	5785MHz
			161	5805MHz
			165	5825MHz
		40 MHz	151	5755MHz
			159	5795MHz
		80 MHz	155	5775MHz
Does this device support TPC Function? ☒Yes ☐No				
Does this device support TDWR Band? ☐Yes ☒No				

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5. Test Case Results

5.1. Occupied Bandwidth

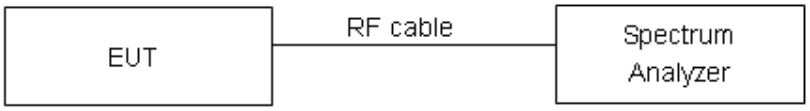
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.
For U-NII-1/U-NII-2A/U-NII-2C, set RBW ≈1% OCB kHz, VBW ≥ 3 × RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.
For U-NII-3, Set RBW = 100 kHz, VBW ≥ 3 × RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.
Use the 99 % power bandwidth function of the instrument

Test Setup



Limits

For U-NII-1/U-NII-2A/U-NII-2C
No specific occupied bandwidth requirements in Part 15.407.
For U-NII-3
Rule FCC Part §15.407(e)
Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 936 Hz.

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Test Results:

U-NII-1

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	5180	16.741	21.157	PASS
	5200	16.688	21.372	PASS
	5240	16.713	21.265	PASS
802.11n HT20	5180	17.836	21.161	PASS
	5200	17.834	21.205	PASS
	5240	17.762	21.117	PASS
802.11n HT40	5190	36.315	40.345	PASS
	5230	36.311	40.553	PASS
802.11ac VHT20	5180	17.786	21.147	PASS
	5200	17.839	21.246	PASS
	5240	17.808	21.406	PASS
802.11ac VHT40	5190	36.284	40.358	PASS
	5230	36.260	40.707	PASS
802.11ac VHT80	5210	75.703	81.360	PASS
802.11ax HE20	5180	19.052	21.432	PASS
	5200	19.045	21.212	PASS
	5240	19.042	21.473	PASS
802.11ax HE40	5190	37.606	39.943	PASS
	5230	37.622	40.489	PASS
802.11ax HE80	5210	77.108	81.386	PASS

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U-NII-2A

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	5260	16.735	20.973	PASS
	5300	16.732	21.333	PASS
	5320	16.770	21.388	PASS
802.11n HT20	5260	17.807	21.208	PASS
	5300	17.881	21.546	PASS
	5320	17.896	21.425	PASS
802.11n HT40	5270	36.338	40.897	PASS
	5310	36.306	40.275	PASS
802.11ac VHT20	5260	17.851	21.378	PASS
	5300	17.787	21.563	PASS
	5320	17.796	21.394	PASS
802.11ac VHT40	5270	36.306	40.502	PASS
	5310	36.322	40.352	PASS
802.11ac VHT80	5290	75.754	82.184	PASS
802.11ax HE20	5260	19.033	21.393	PASS
	5300	19.012	21.341	PASS
	5320	19.007	21.372	PASS
802.11ax HE40	5270	37.607	40.220	PASS
	5310	37.571	40.284	PASS
802.11ax HE80	5290	77.029	81.901	PASS

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U-NII-2C

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	5500	16.692	21.234	PASS
	5580	16.699	21.385	PASS
	5700	16.702	21.218	PASS
	5720	16.717	21.178	PASS
802.11n HT20	5500	17.787	21.271	PASS
	5580	17.834	21.204	PASS
	5700	17.856	21.568	PASS
	5720	17.843	21.274	PASS
802.11n HT40	5510	36.277	40.464	PASS
	5550	36.285	40.423	PASS
	5670	36.285	40.332	PASS
	5710	36.272	40.293	PASS
802.11ac VHT20	5500	17.822	21.296	PASS
	5580	17.876	21.372	PASS
	5700	17.857	21.283	PASS
	5720	17.849	21.580	PASS
802.11ac VHT40	5510	36.304	40.627	PASS
	5550	36.318	40.274	PASS
	5670	36.296	39.948	PASS
	5710	36.265	40.527	PASS
802.11ac VHT80	5530	75.795	81.669	PASS
	5690	75.762	81.854	PASS
802.11ax VHT20	5500	19.043	21.531	PASS
	5580	19.094	21.505	PASS
	5700	19.016	21.313	PASS
	5720	19.040	21.747	PASS
802.11ax HE40	5510	37.657	40.009	PASS
	5550	37.625	40.232	PASS
	5670	37.650	40.292	PASS
	5710	37.658	40.094	PASS
802.11ax HE80	5530	77.203	81.791	PASS
	5690	77.120	81.807	PASS

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U-NII-3

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11a	5720	16.644	13.824	500	PASS
	5745	16.754	15.110	500	PASS
	5785	16.673	15.147	500	PASS
	5825	16.738	15.107	500	PASS
802.11n HT20	5720	17.817	15.130	500	PASS
	5745	17.840	15.164	500	PASS
	5785	17.851	15.106	500	PASS
	5825	17.871	15.113	500	PASS
802.11n HT40	5710	36.281	36.289	500	PASS
	5755	36.332	36.059	500	PASS
	5795	36.219	35.118	500	PASS
802.11ac VHT20	5720	17.840	15.000	500	PASS
	5745	17.810	15.044	500	PASS
	5785	17.780	15.068	500	PASS
	5825	17.806	15.177	500	PASS
802.11ac VHT40	5710	36.332	35.441	500	PASS
	5755	36.322	35.513	500	PASS
	5795	36.296	35.323	500	PASS
802.11ac VHT80	5690	75.823	75.149	500	PASS
	5775	75.705	75.172	500	PASS
802.11ax HE20	5720	19.023	18.761	500	PASS
	5745	19.037	17.722	500	PASS
	5785	19.075	18.842	500	PASS
	5825	19.029	18.835	500	PASS
802.11ax HE40	5710	37.644	37.113	500	PASS
	5755	37.614	37.584	500	PASS
	5795	37.491	36.590	500	PASS
802.11ax HE80	5690	77.141	76.552	500	PASS
	5775	77.125	76.738	500	PASS

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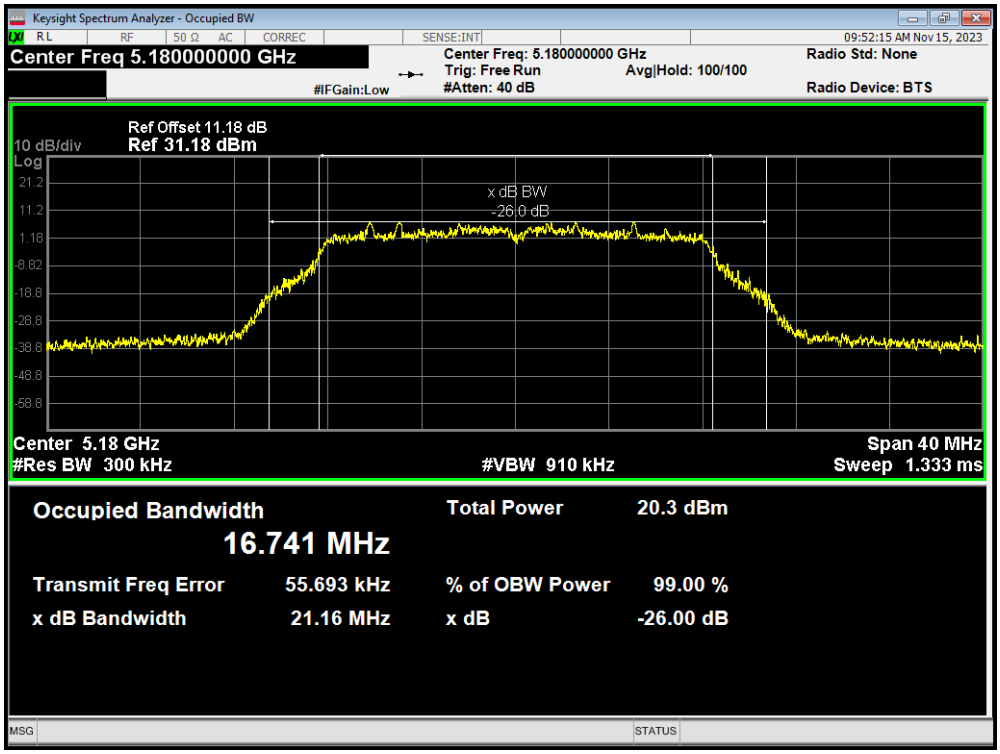
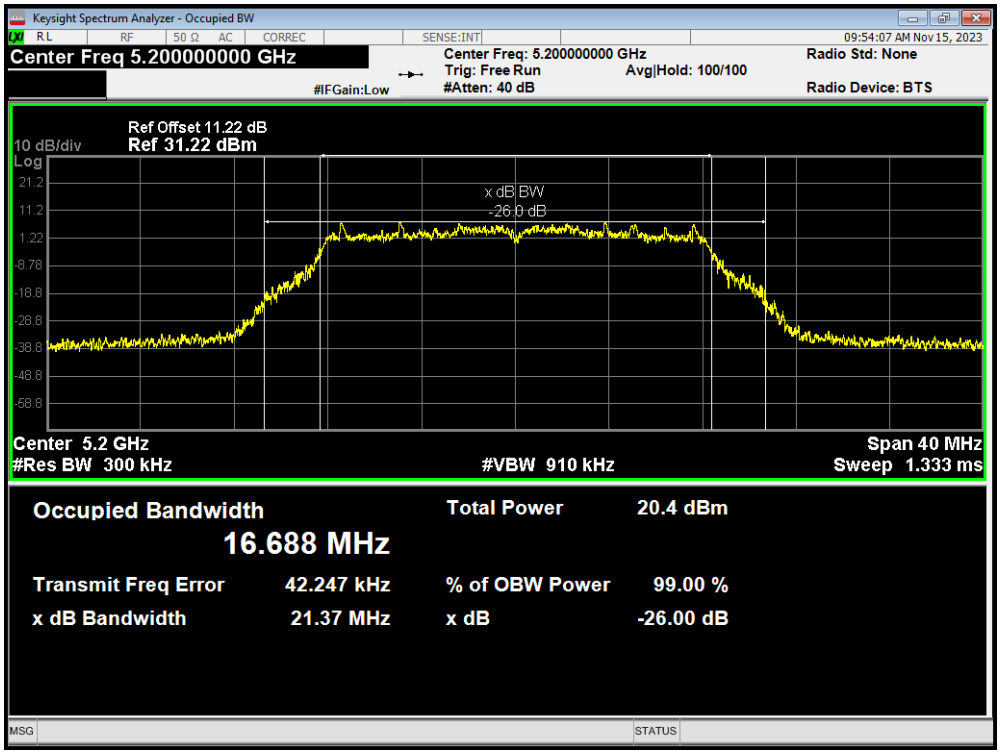
99% bandwidth

U-NII-1

OBW 802.11a 5180MHz



OBW 802.11a 5200MHz



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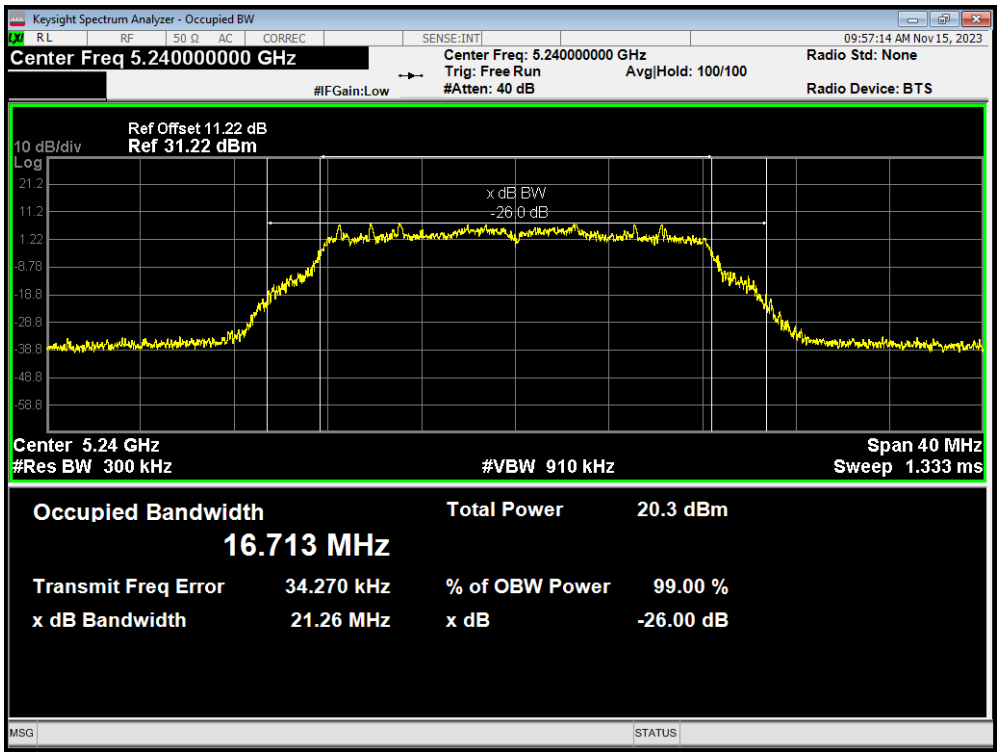
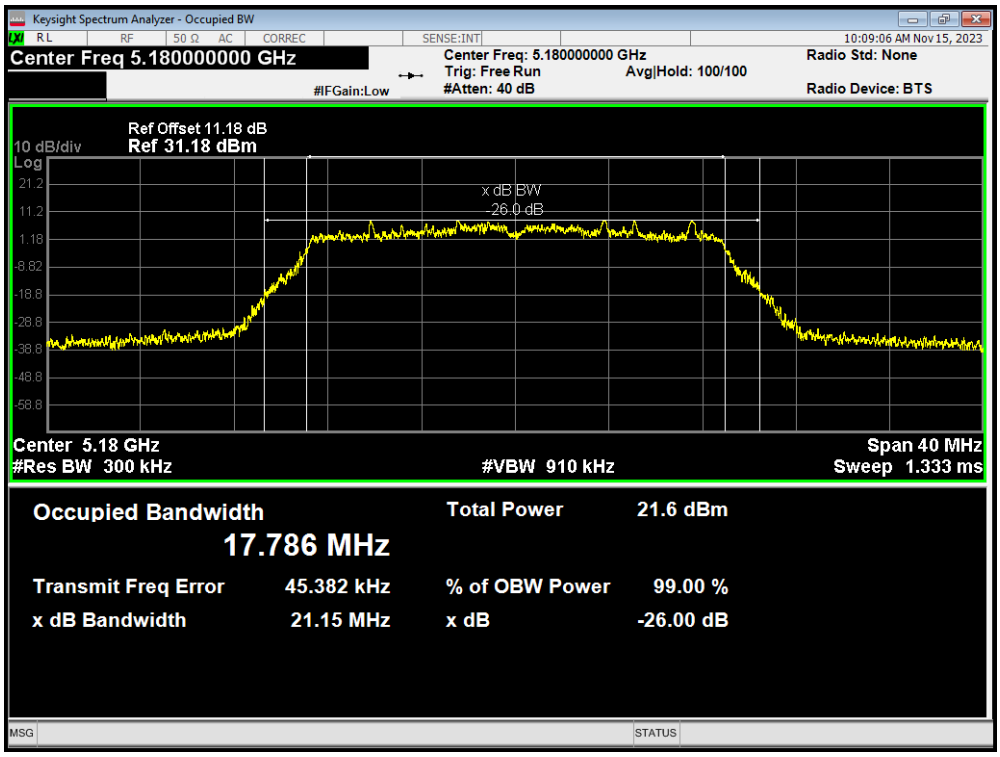
OBW 802.11a 5240MHz



OBW 802.11ac(VHT20) 5180MHz



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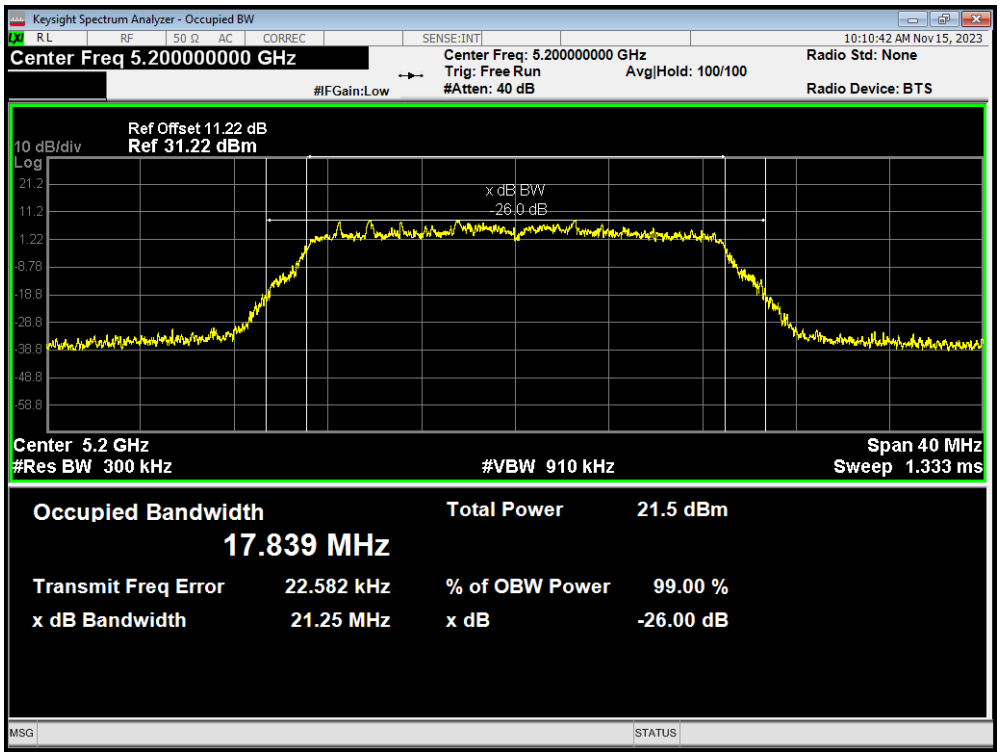
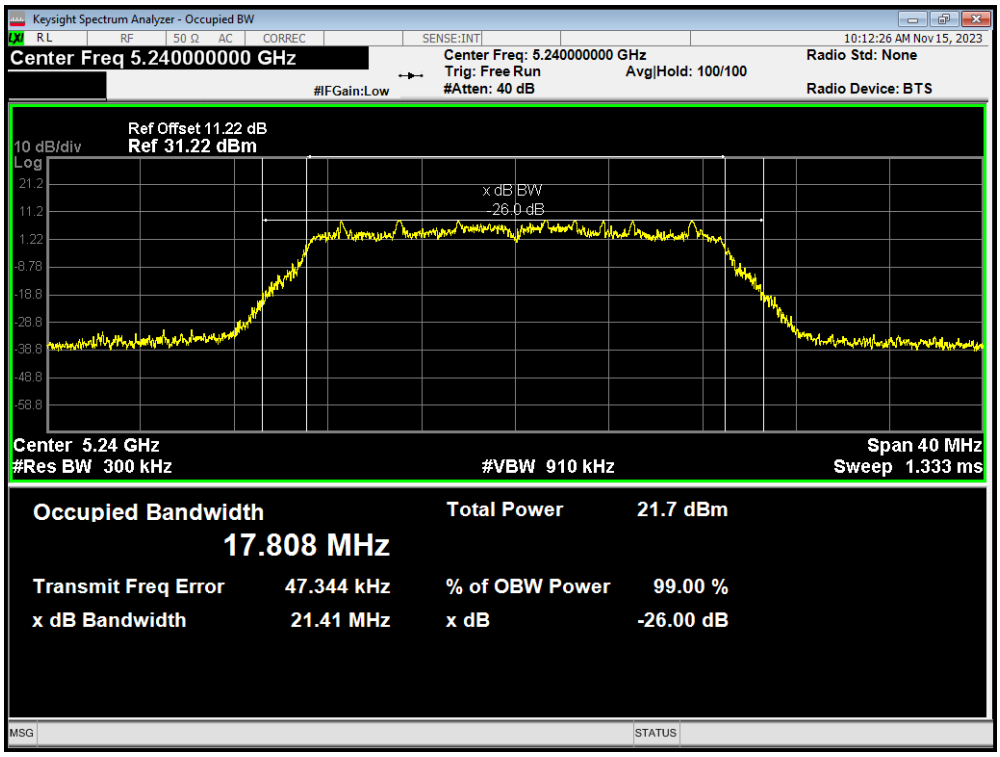
OBW 802.11ac(VHT20) 5200MHz



OBW 802.11ac(VHT20) 5240MHz



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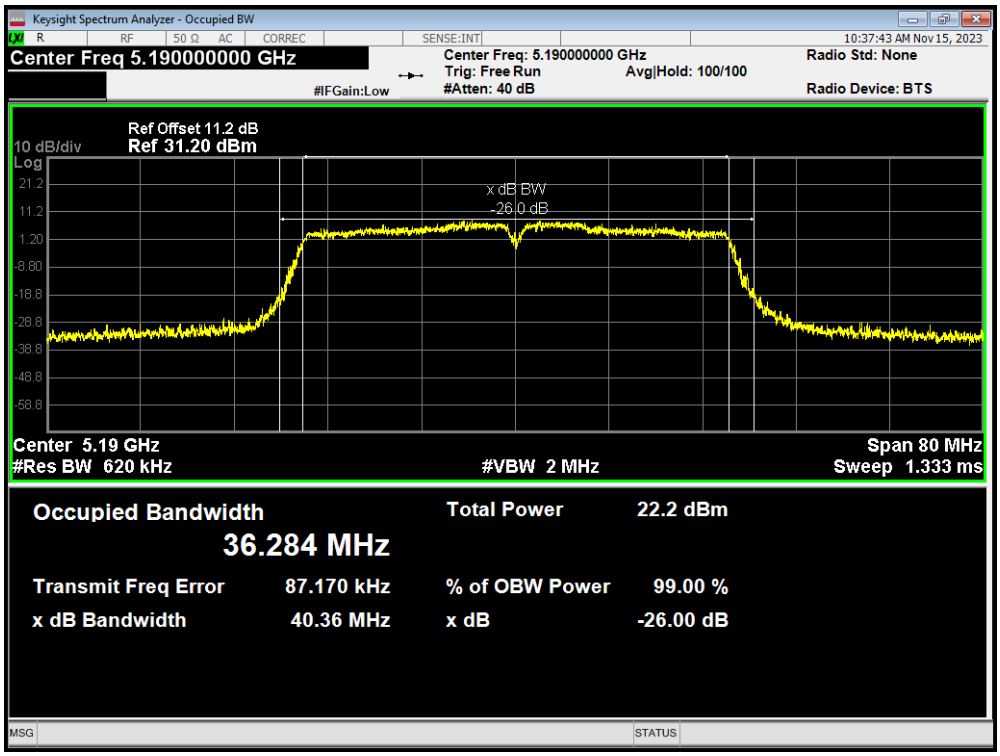
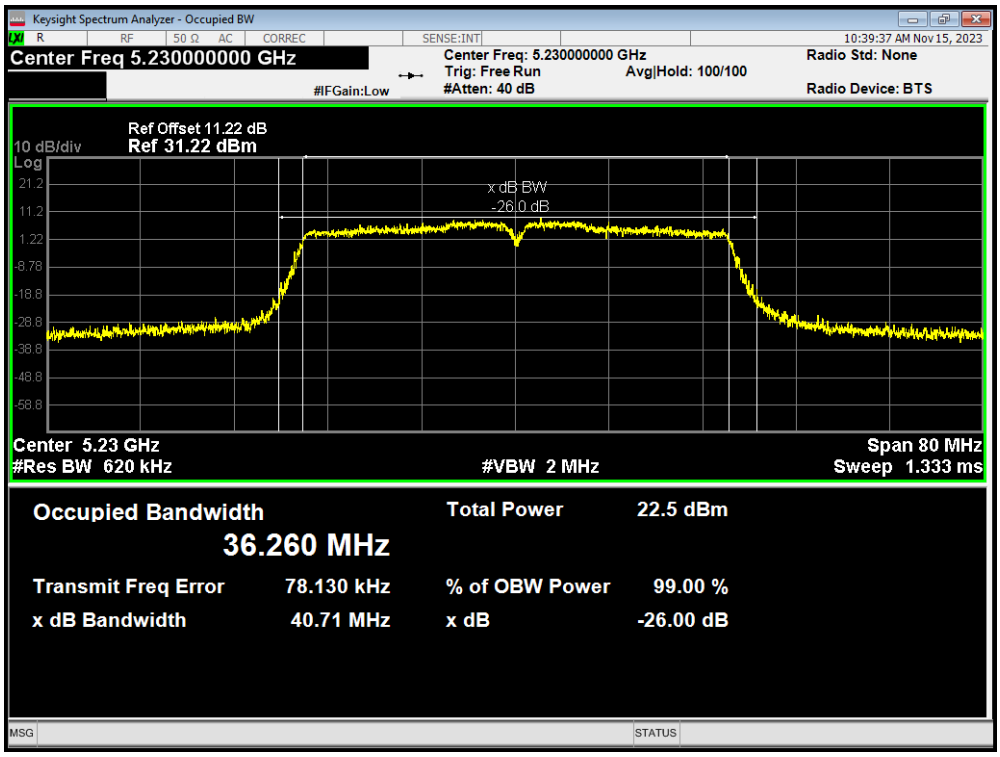
OBW 802.11ac(VHT40) 5190MHz



OBW 802.11ac(VHT40) 5230MHz



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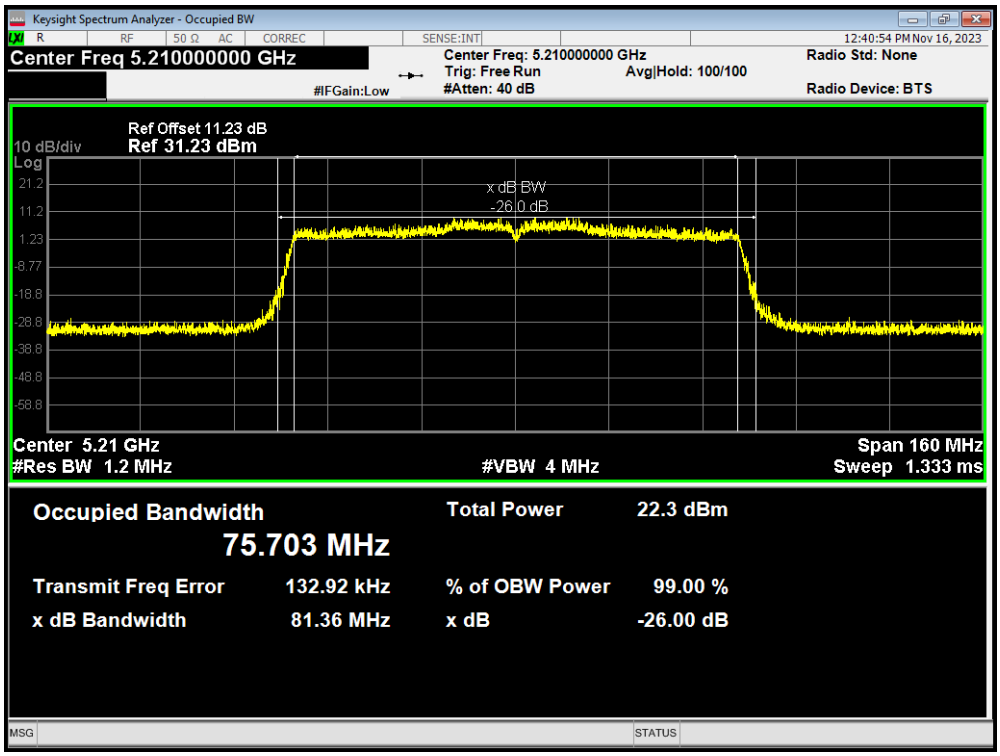
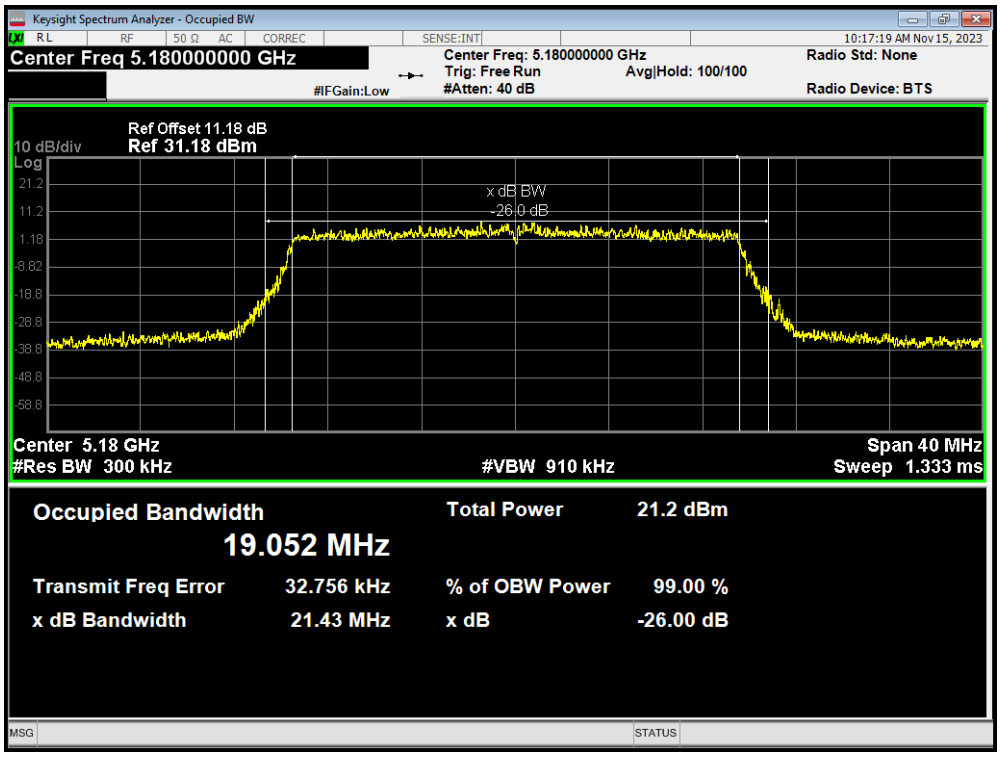
OBW 802.11ac(VHT80) 5210MHz



OBW 802.11ax(HE20) 5180MHz



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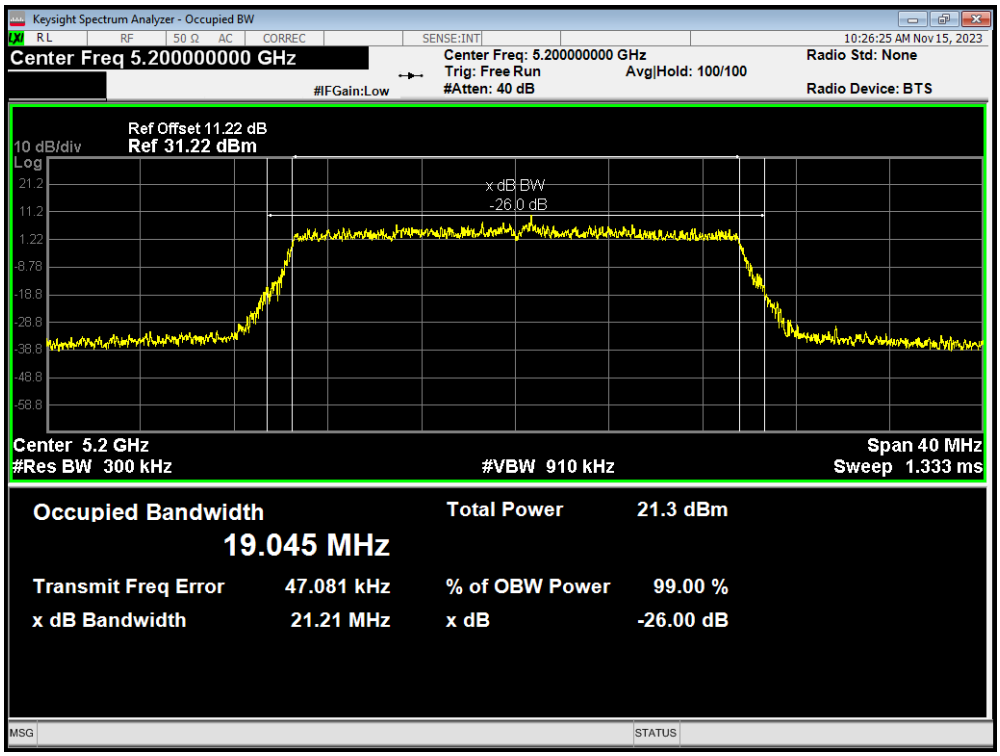
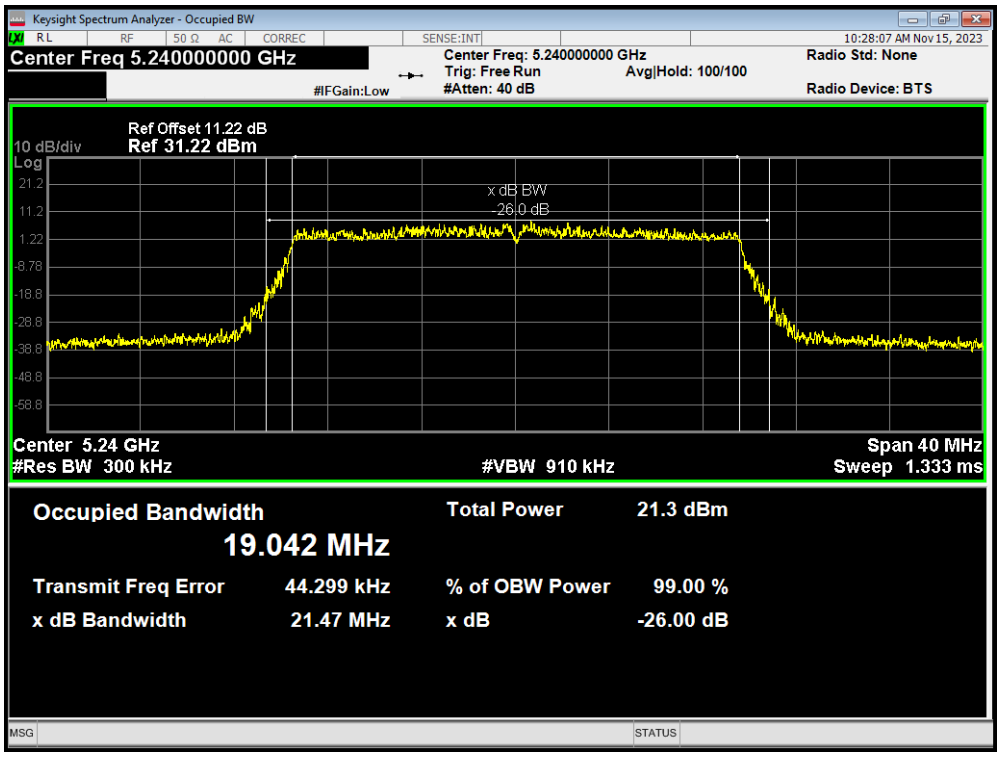
OBW 802.11ax(HE20) 5200MHz



OBW 802.11ax(HE20) 5240MHz



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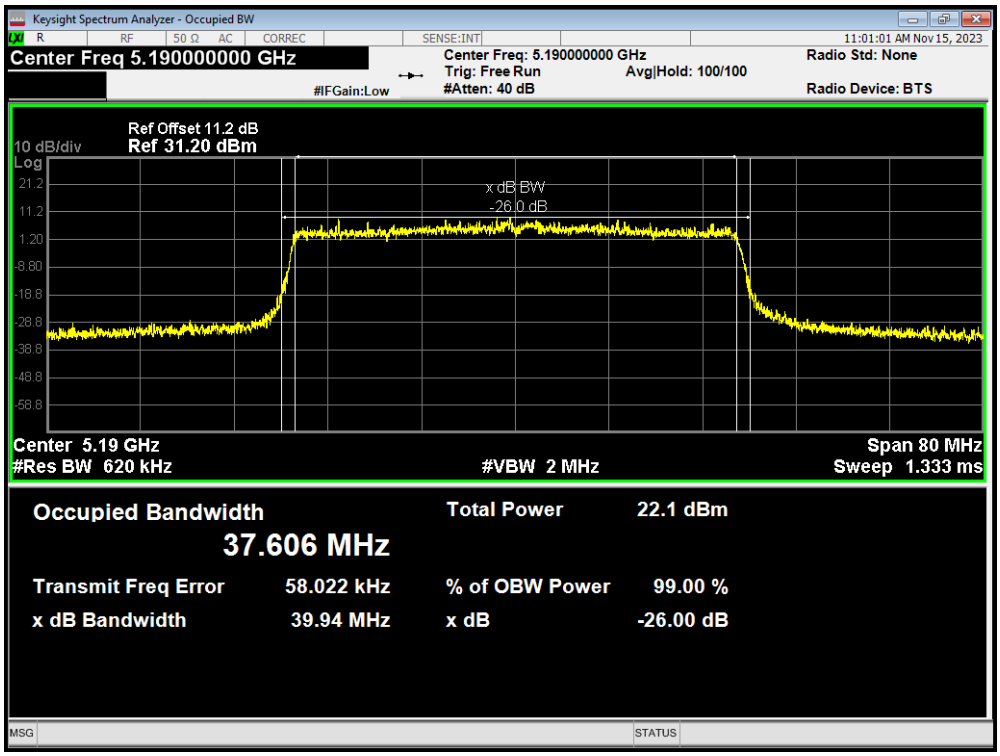
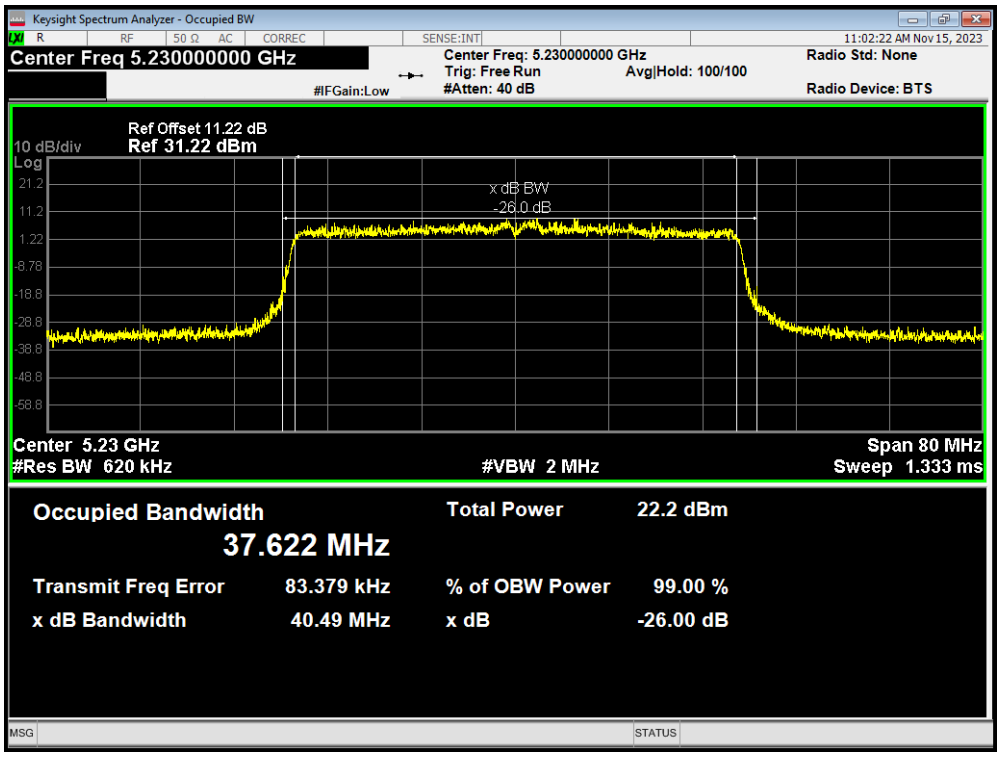
OBW 802.11ax(HE40) 5190MHz



OBW 802.11ax(HE40) 5230MHz



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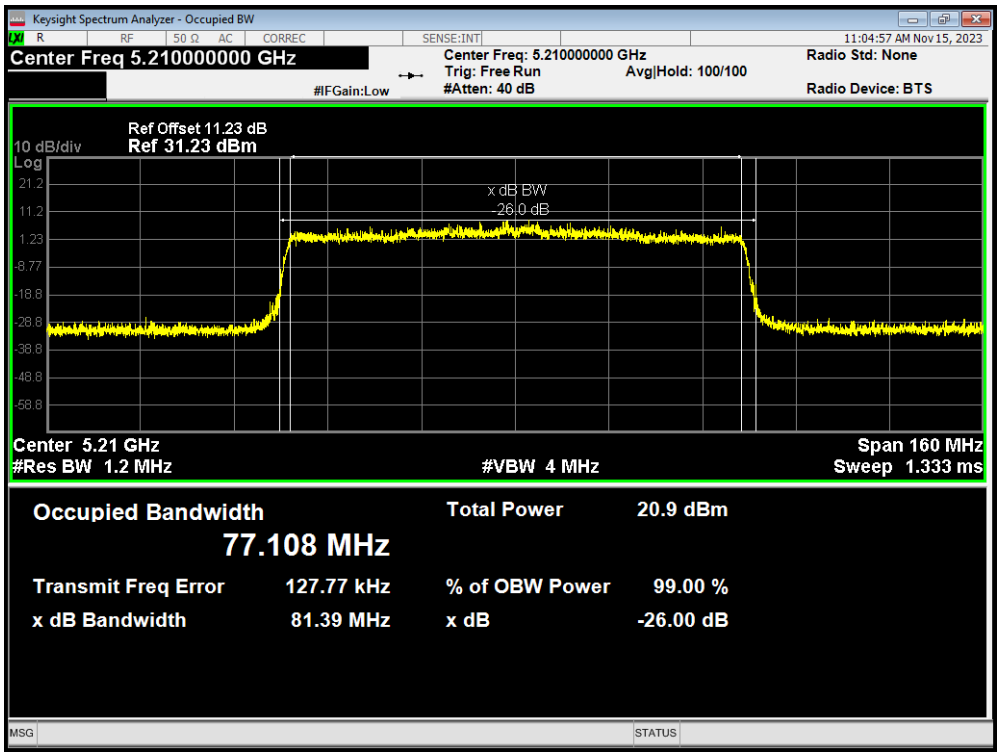
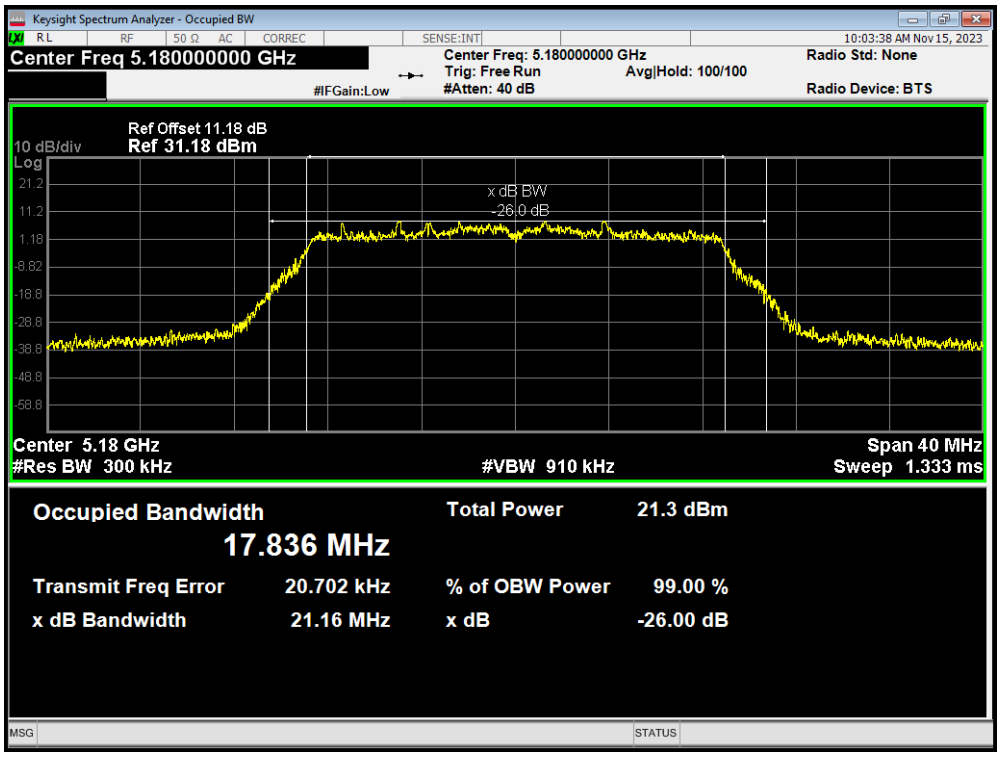
OBW 802.11ax(HE80) 5210MHz



OBW 802.11n(HT20) 5180MHz



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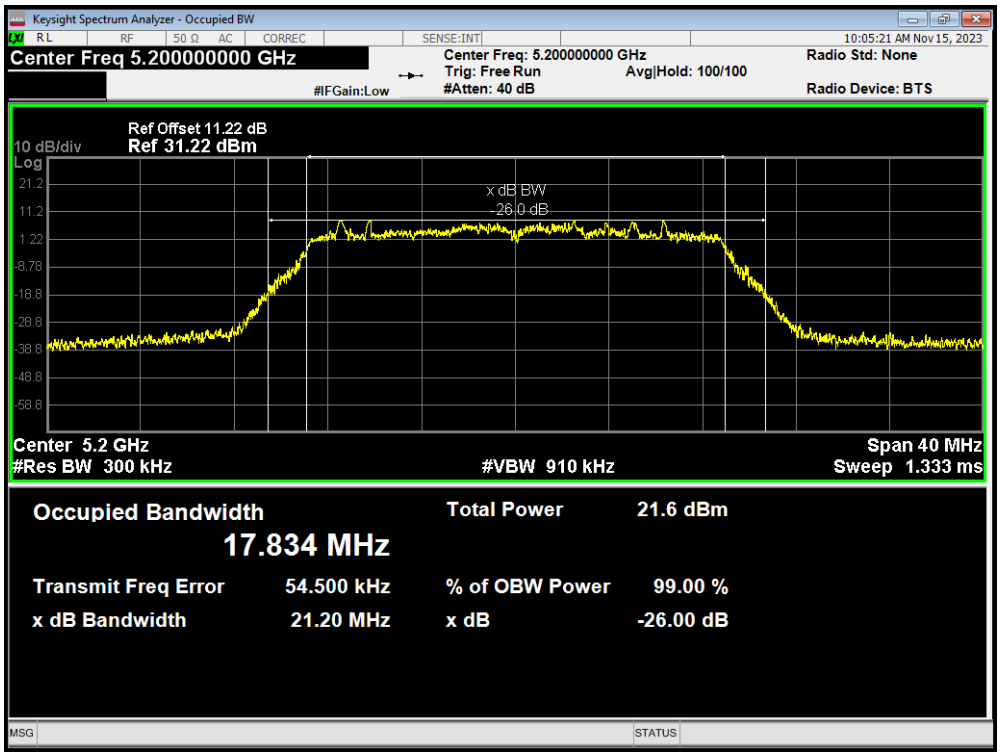
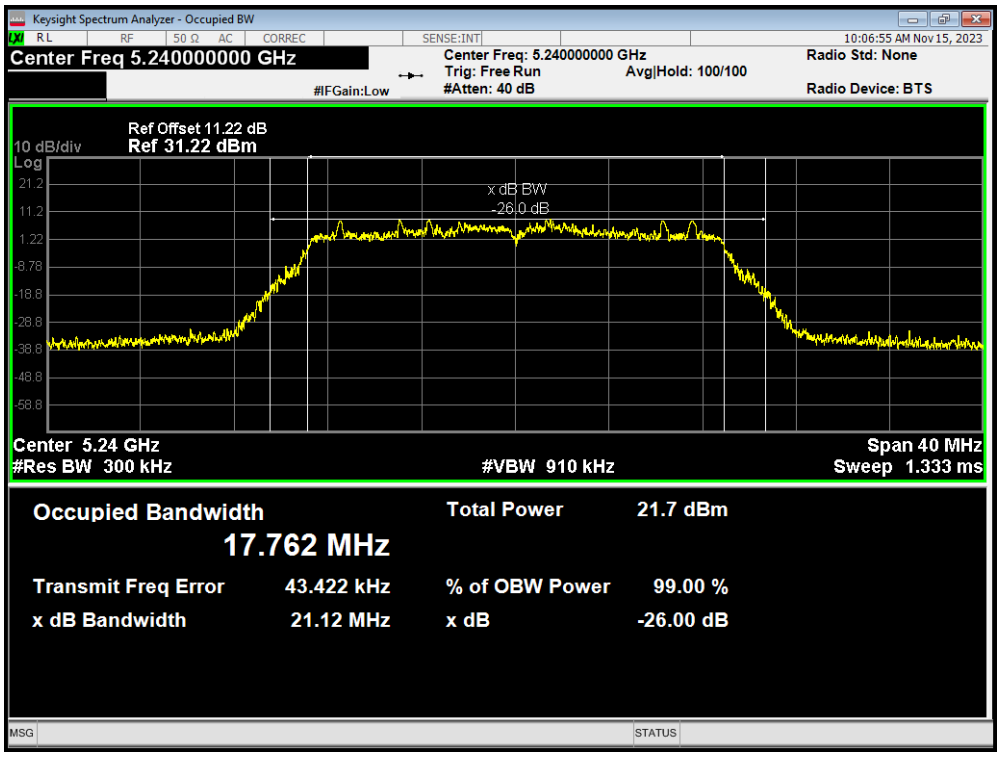
OBW 802.11n(HT20) 5200MHz



OBW 802.11n(HT20) 5240MHz



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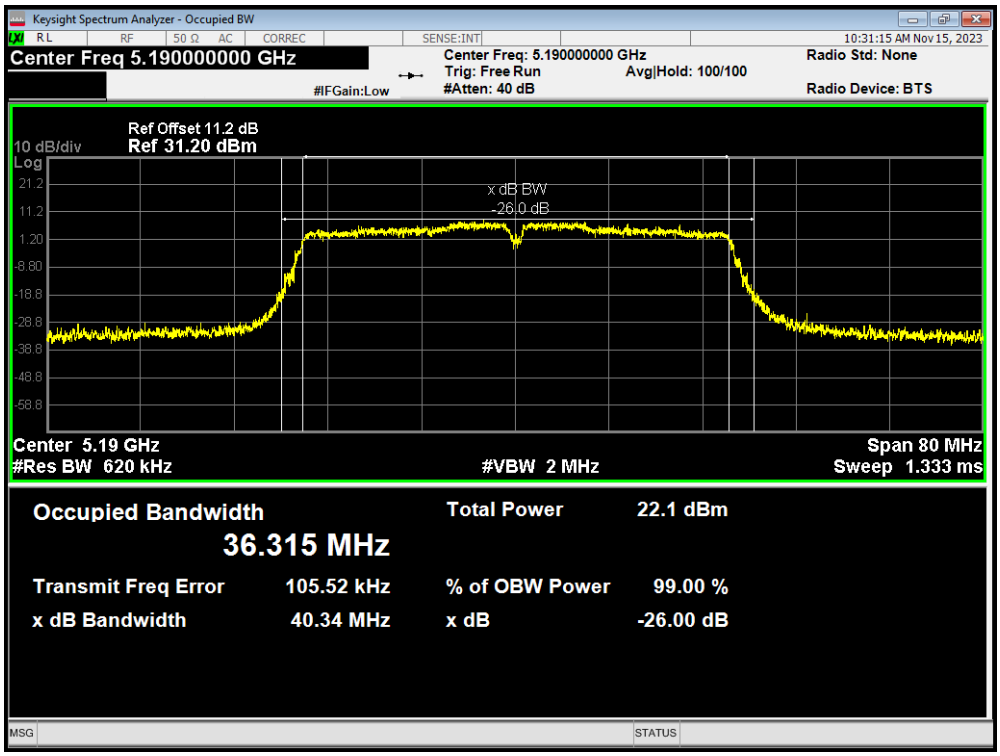
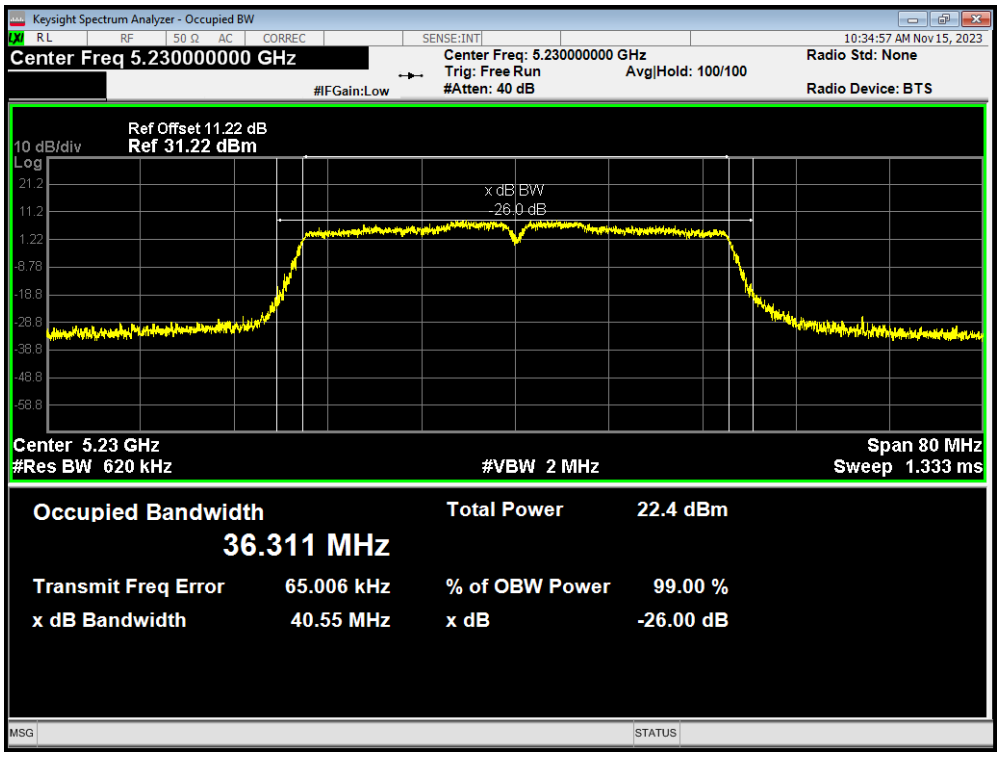
OBW 802.11n(HT40) 5190MHz



OBW 802.11n(HT40) 5230MHz



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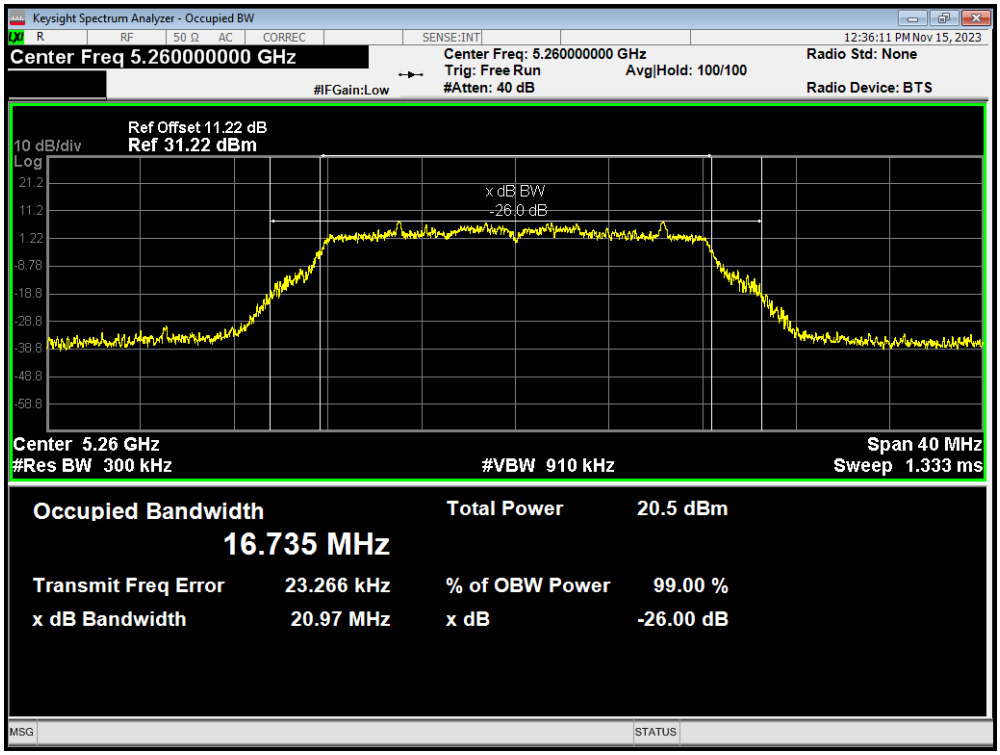
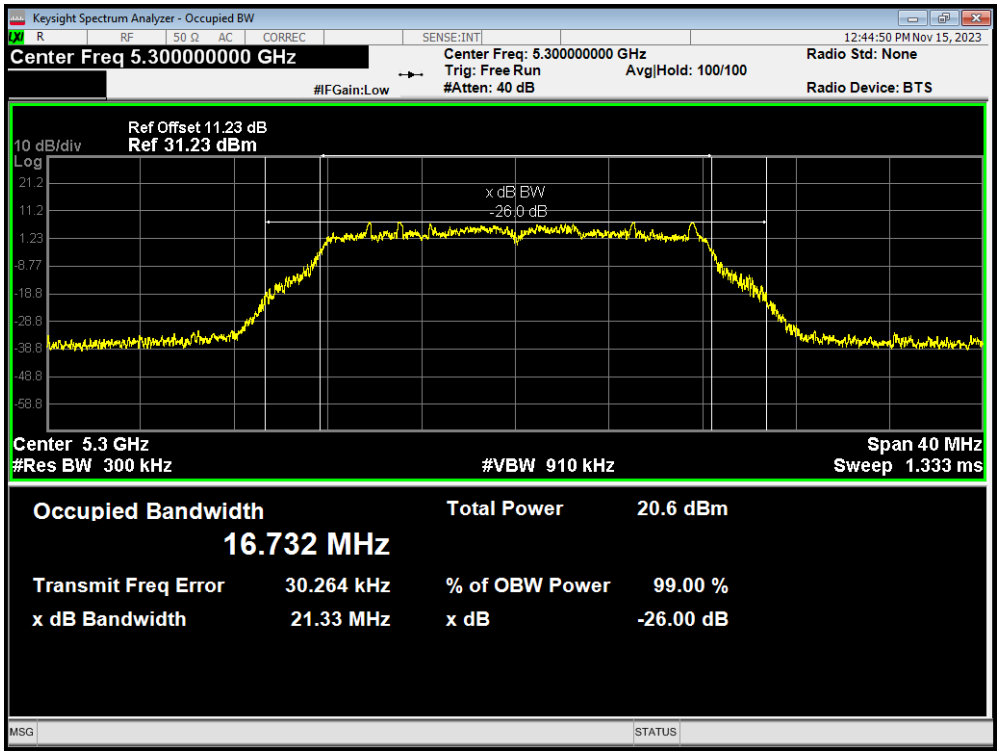
U-NII-2A

OBW 802.11a 5260MHz



OBW 802.11a 5300MHz



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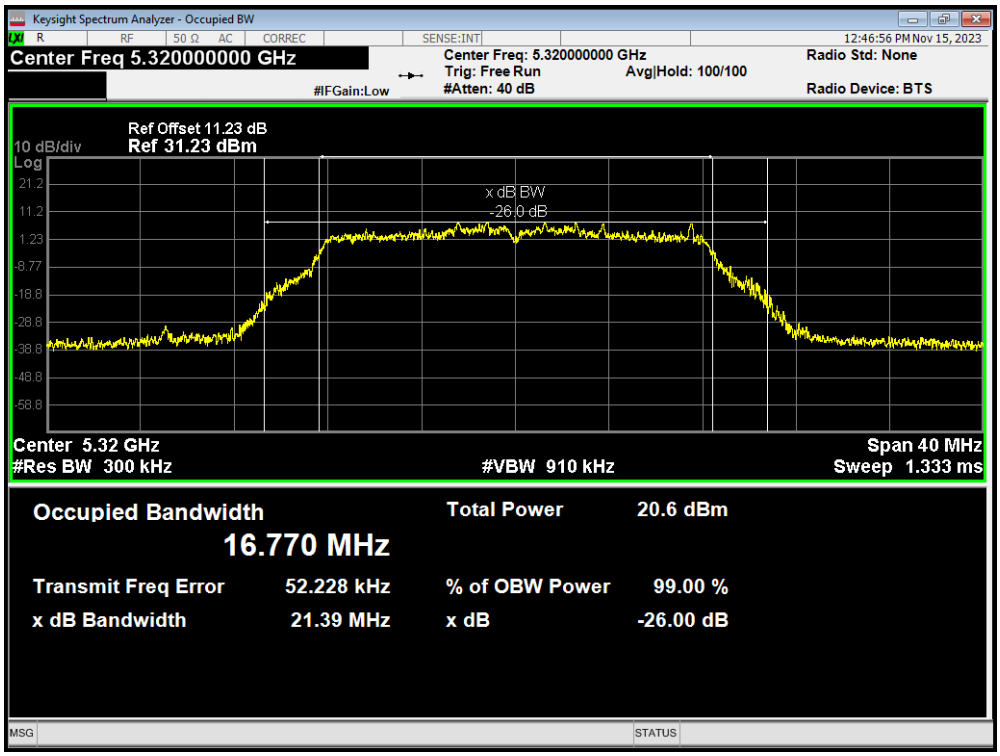
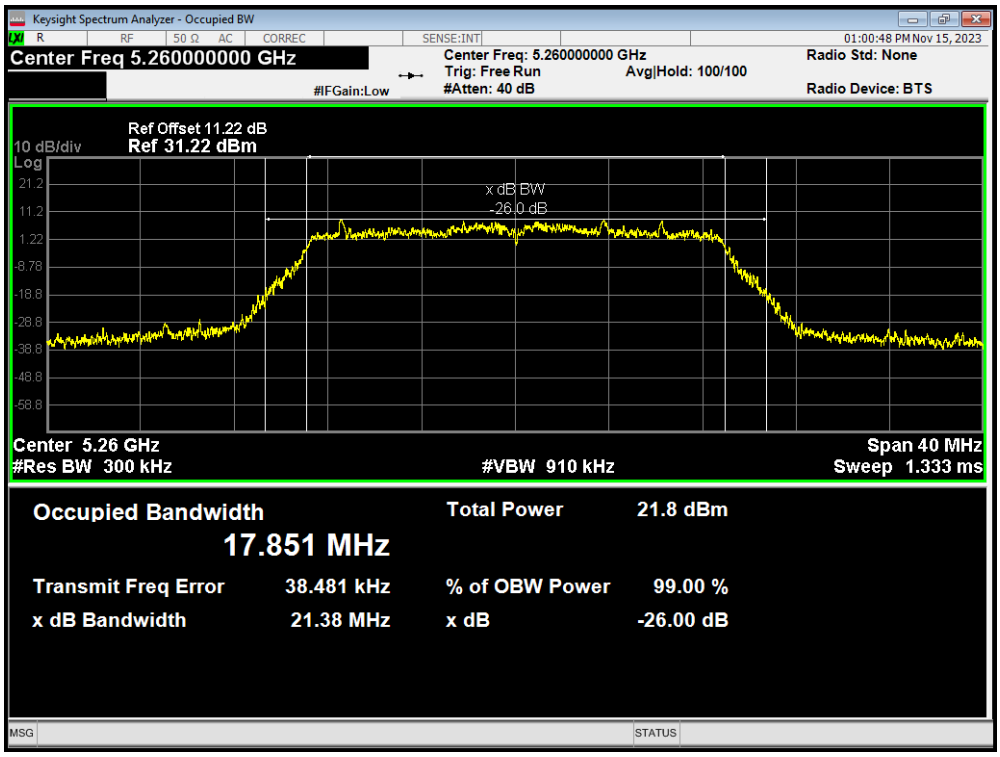
OBW 802.11a 5320MHz



OBW 802.11ac(VHT20) 5260MHz



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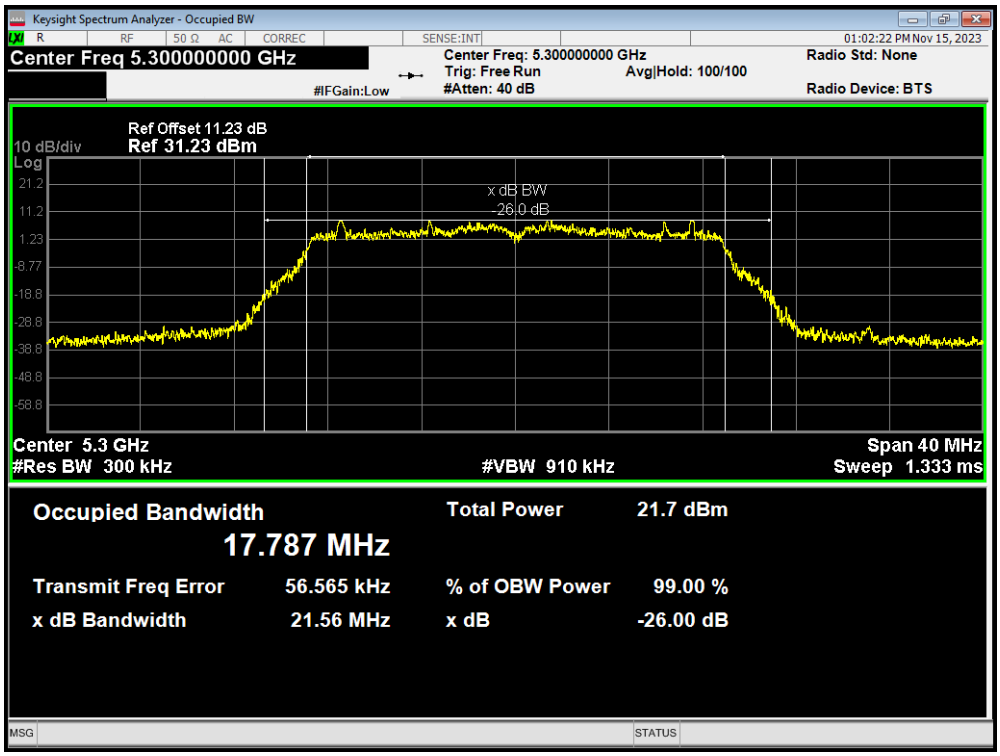
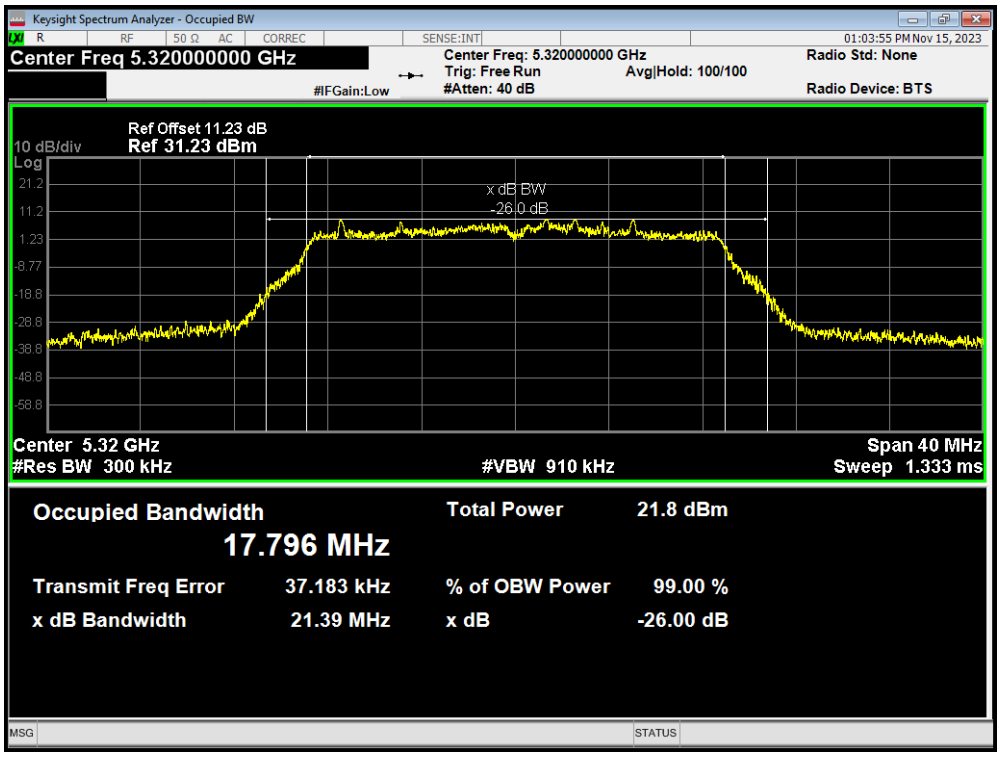
OBW 802.11ac(VHT20) 5300MHz



OBW 802.11ac(VHT20) 5320MHz



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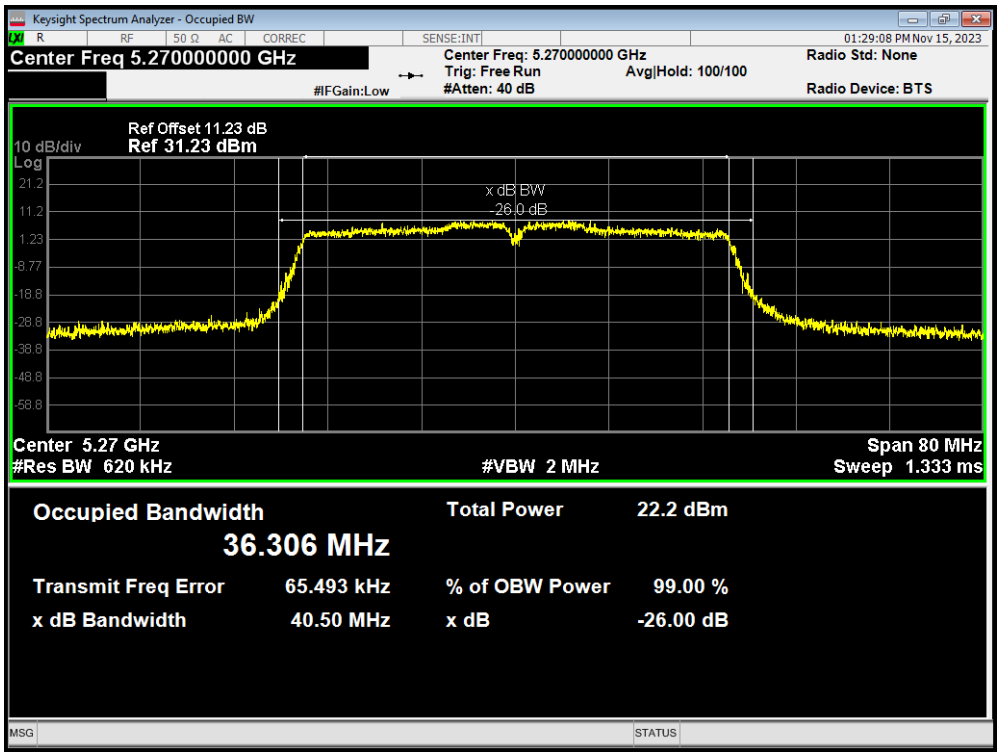
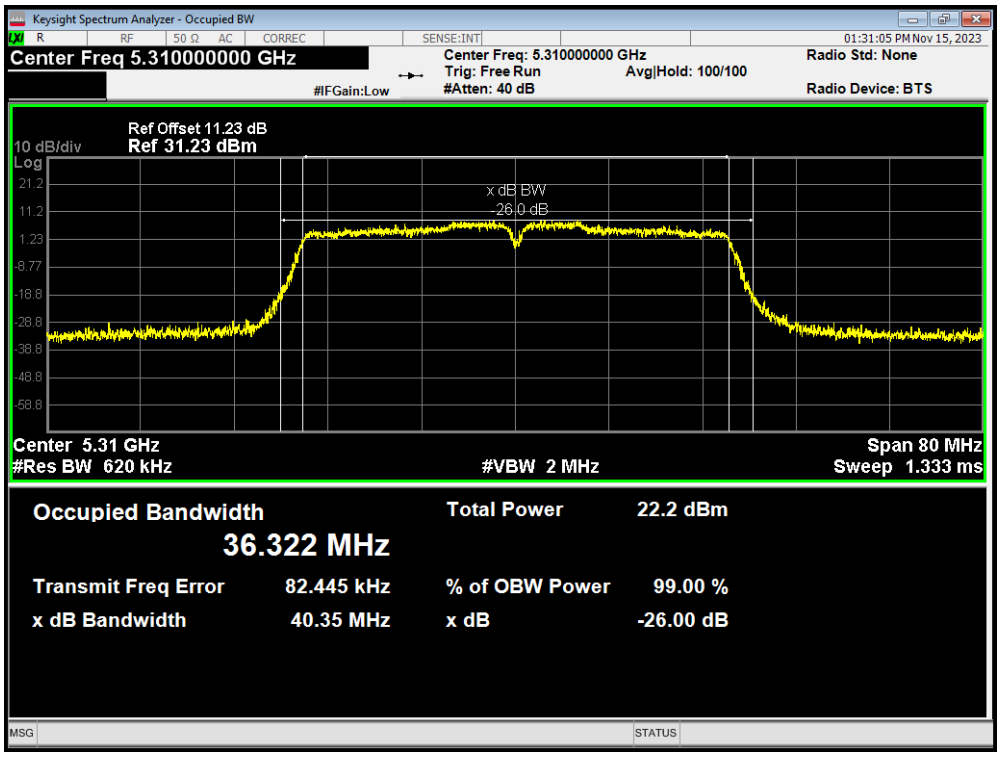
OBW 802.11ac(VHT40) 5270MHz



OBW 802.11ac(VHT40) 5310MHz



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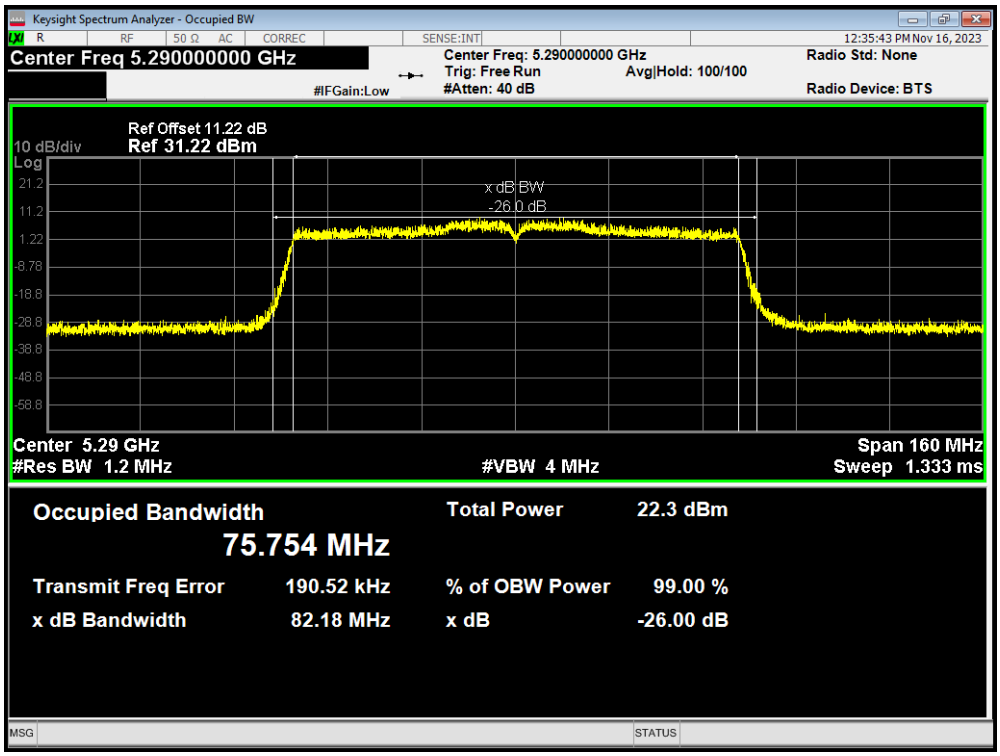
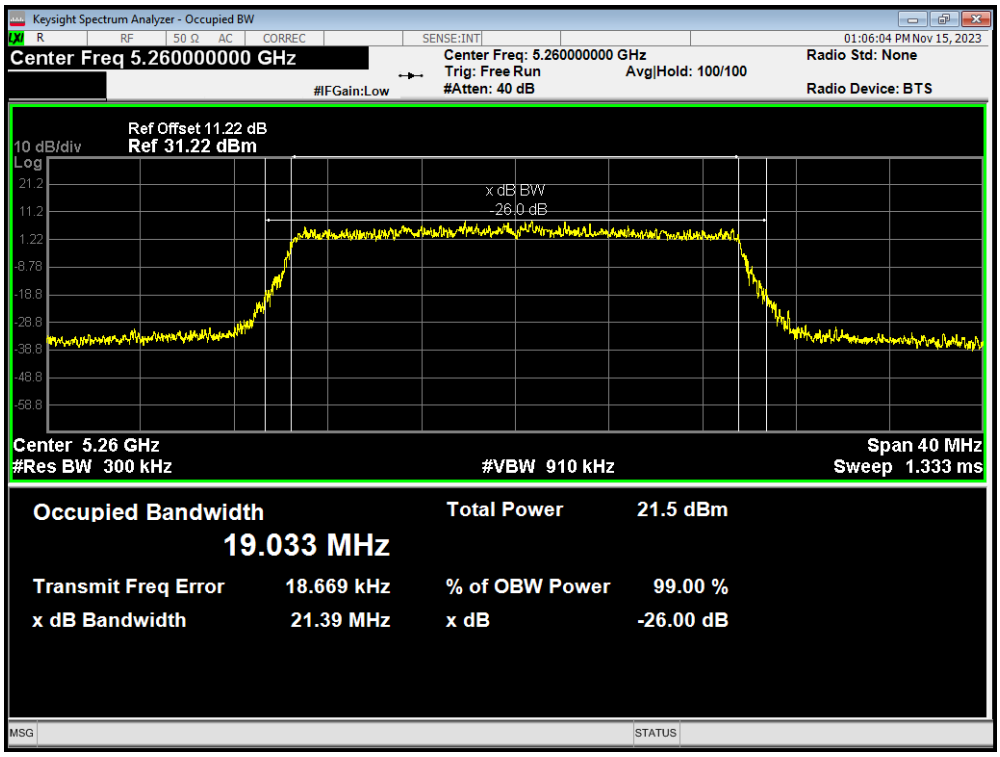
OBW 802.11ac(VHT80) 5290MHz



OBW 802.11ax(HE20) 5260MHz



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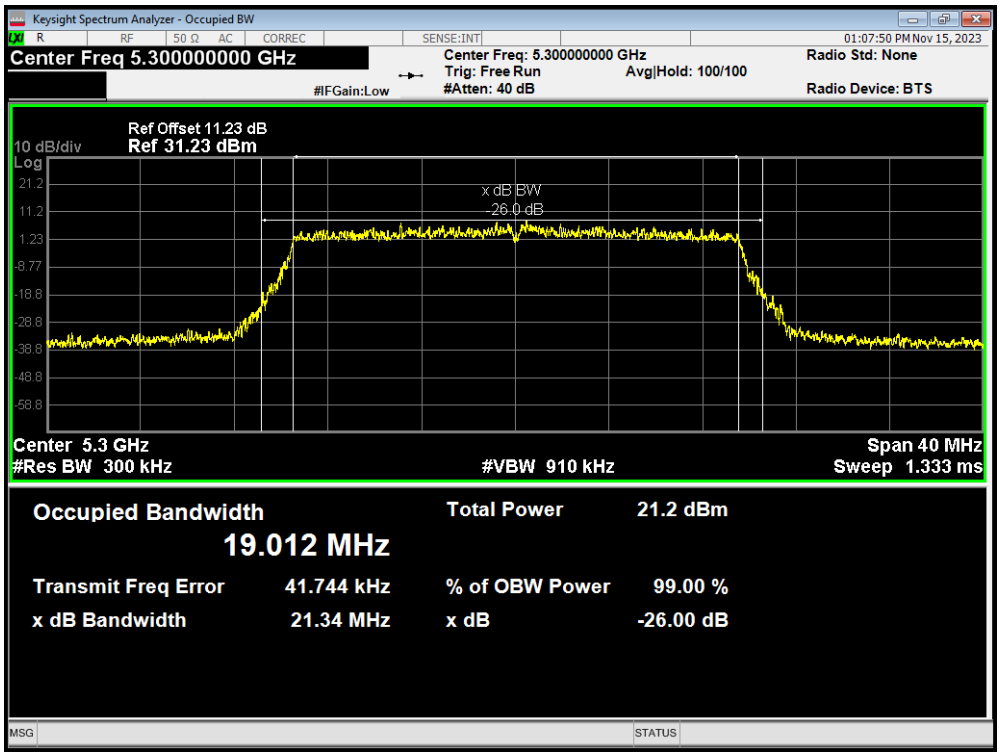
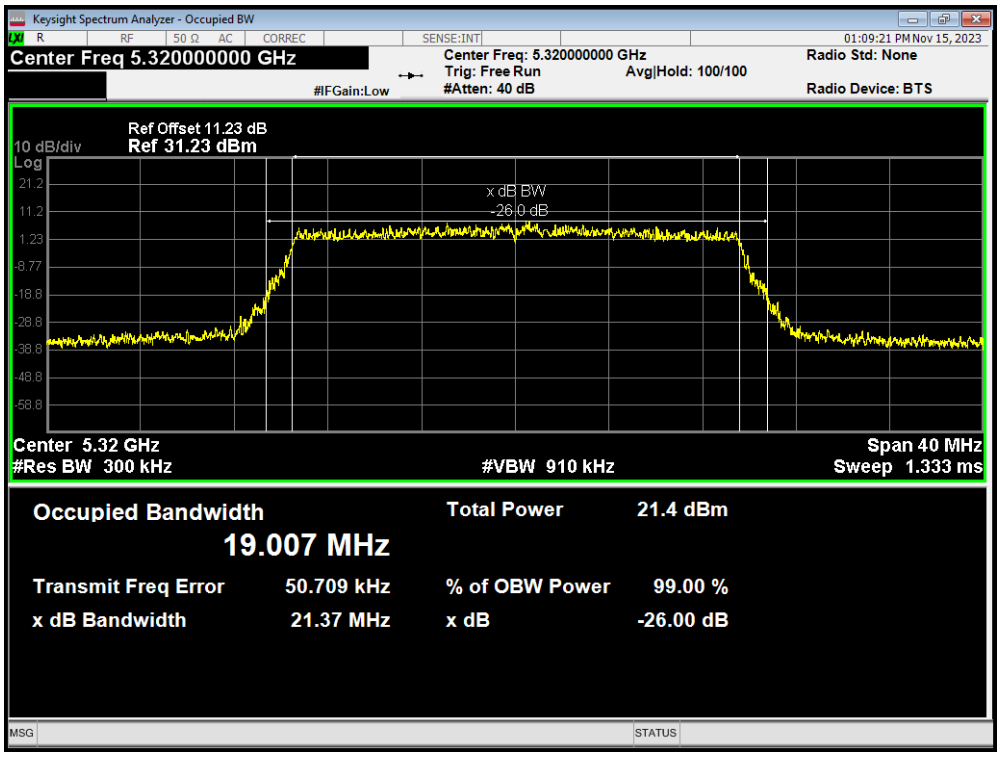
OBW 802.11ax(HE20) 5300MHz



OBW 802.11ax(HE20) 5320MHz



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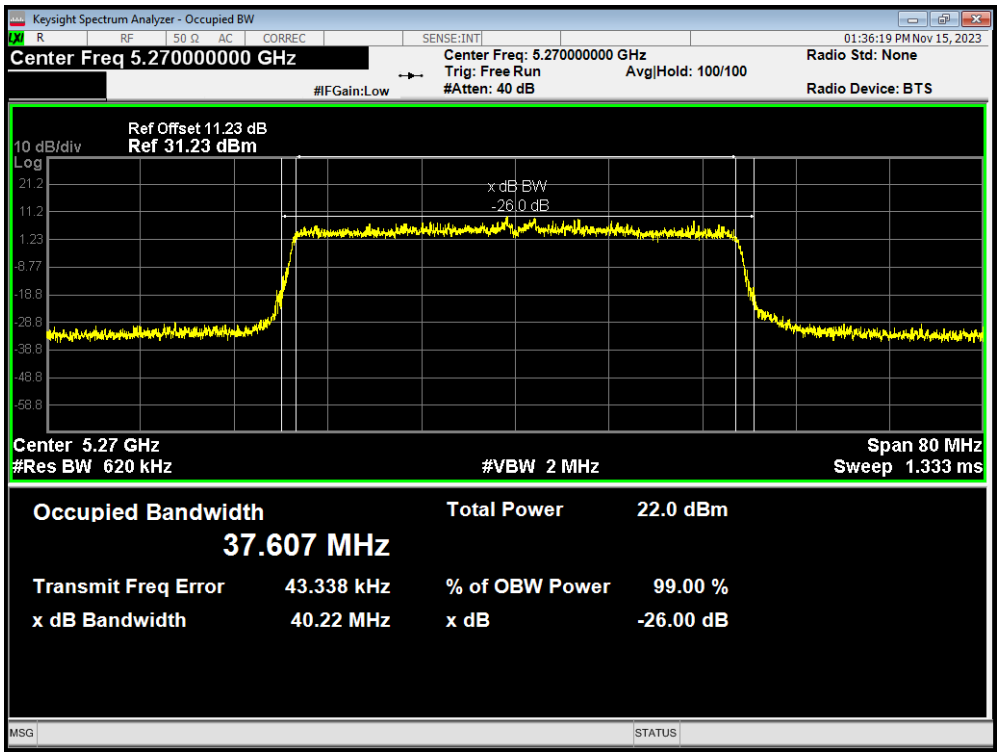
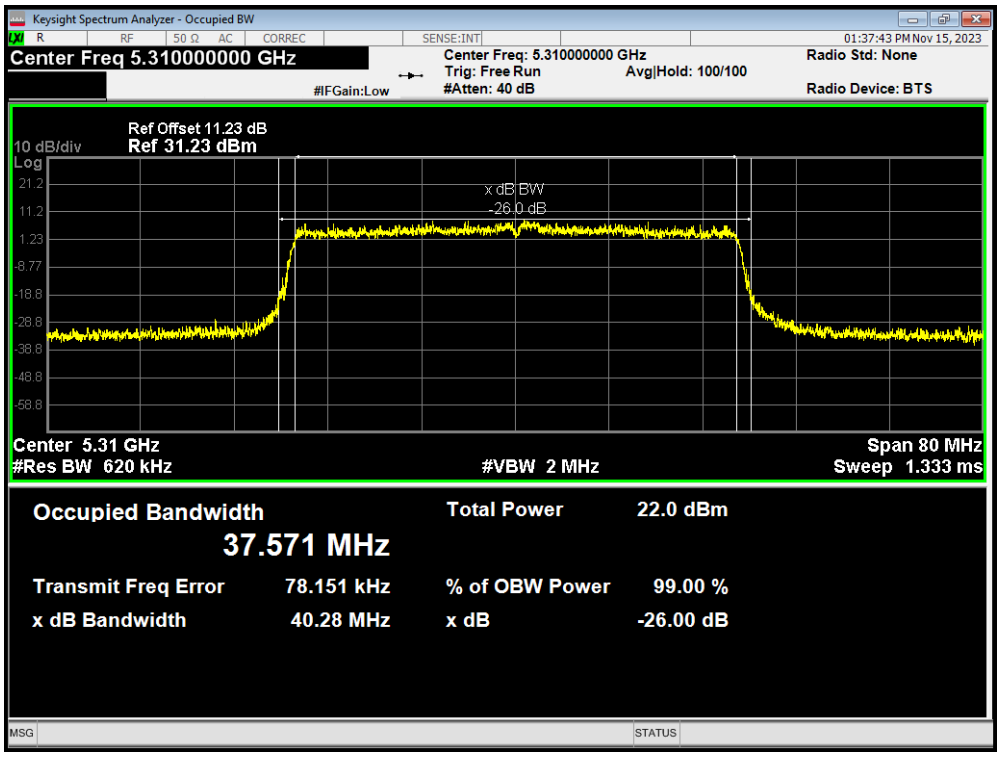
OBW 802.11ax(HE40) 5270MHz



OBW 802.11ax(HE40) 5310MHz



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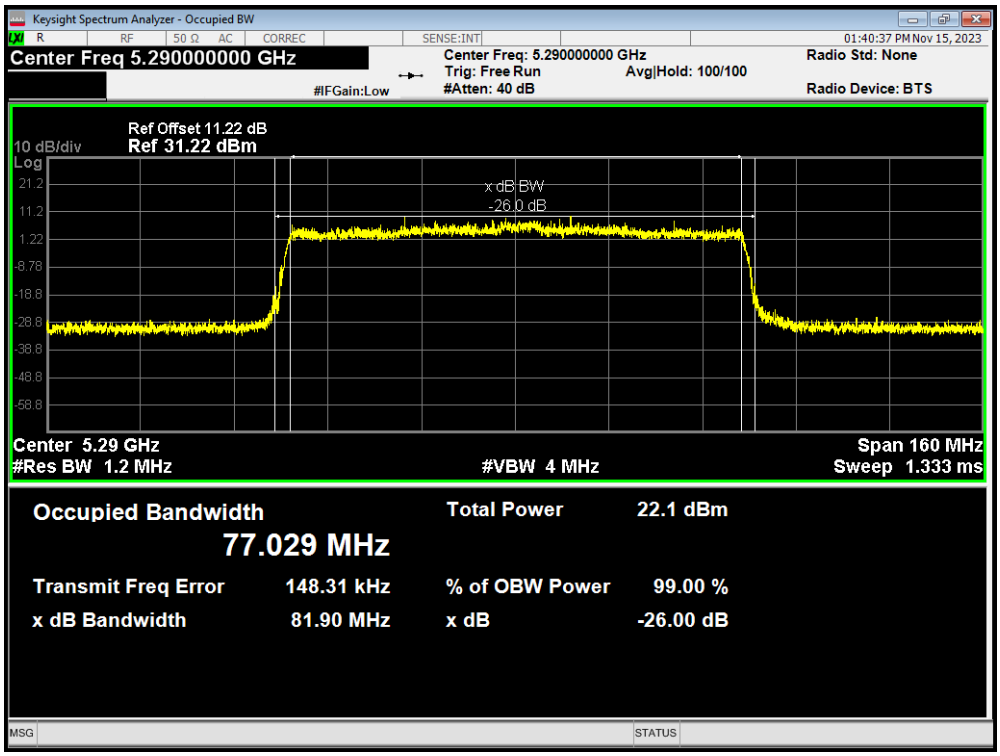
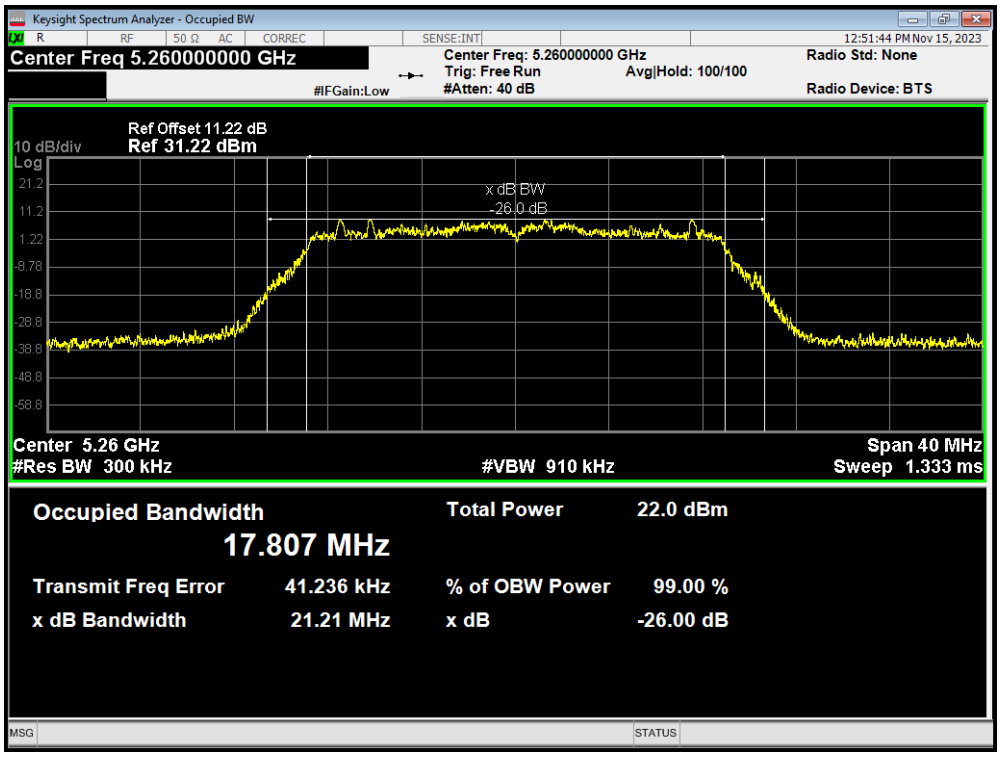
OBW 802.11ax(HE80) 5290MHz



OBW 802.11n(HT20) 5260MHz



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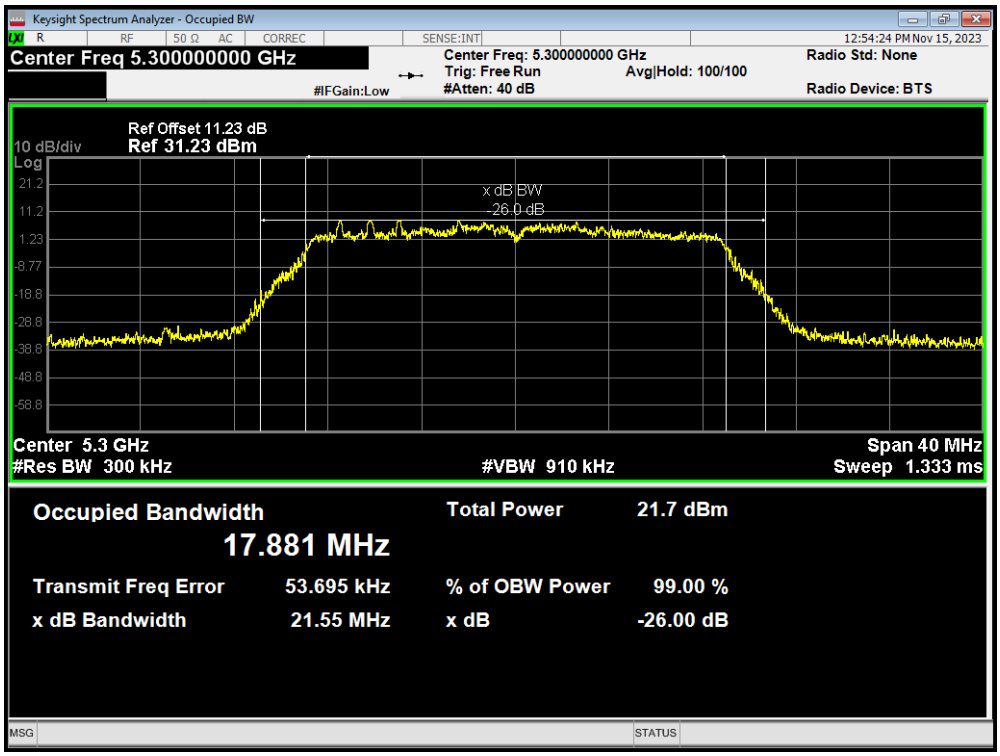
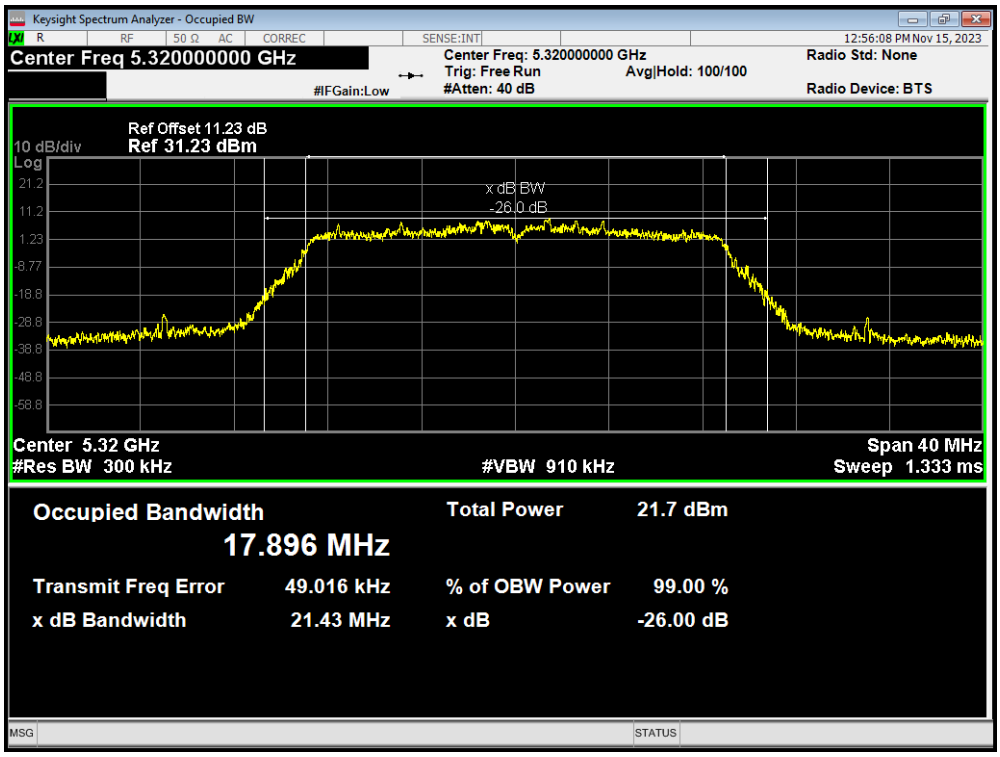
OBW 802.11n(HT20) 5300MHz



OBW 802.11n(HT20) 5320MHz



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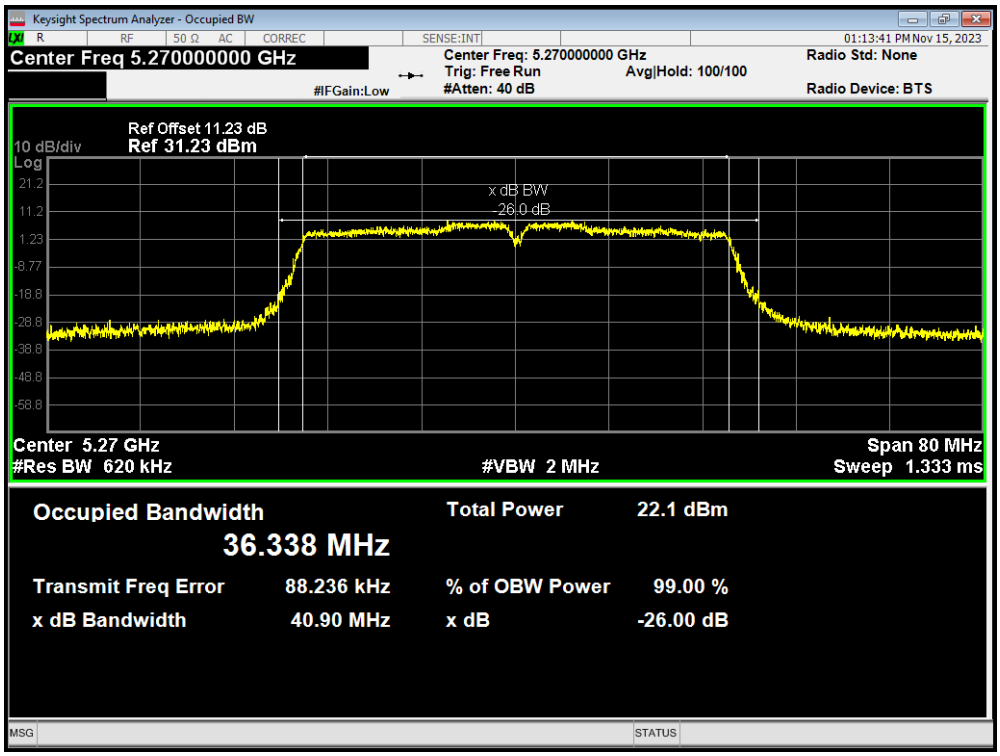
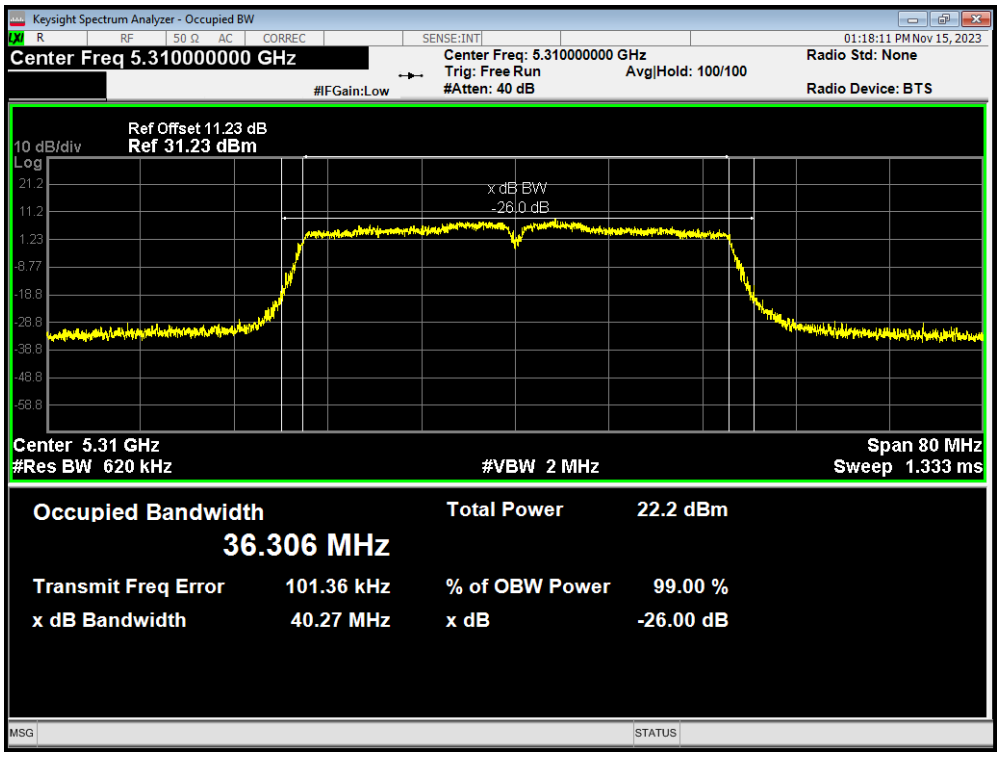
OBW 802.11n(HT40) 5270MHz



OBW 802.11n(HT40) 5310MHz



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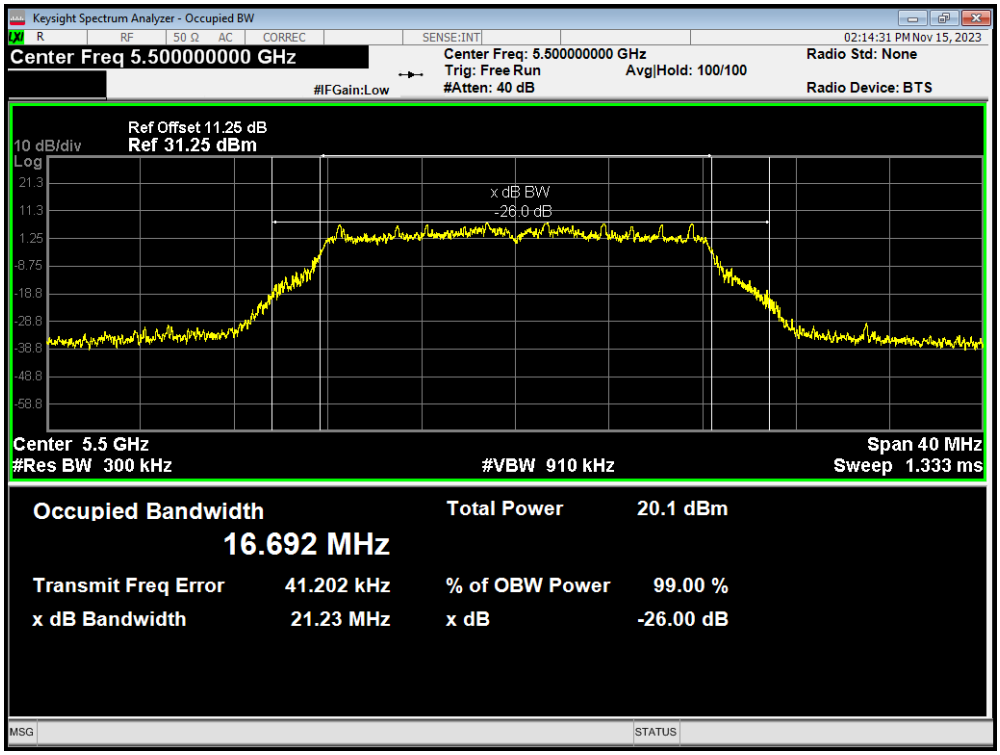
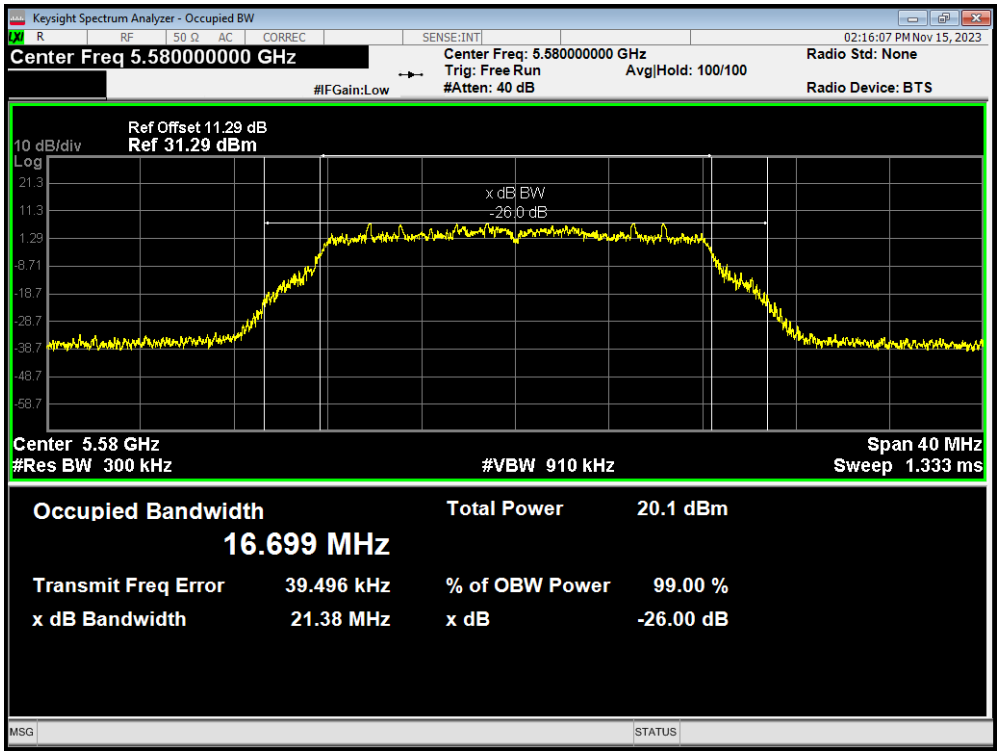
U-NII-2C

OBW 802.11a 5500MHz



OBW 802.11a 5580MHz



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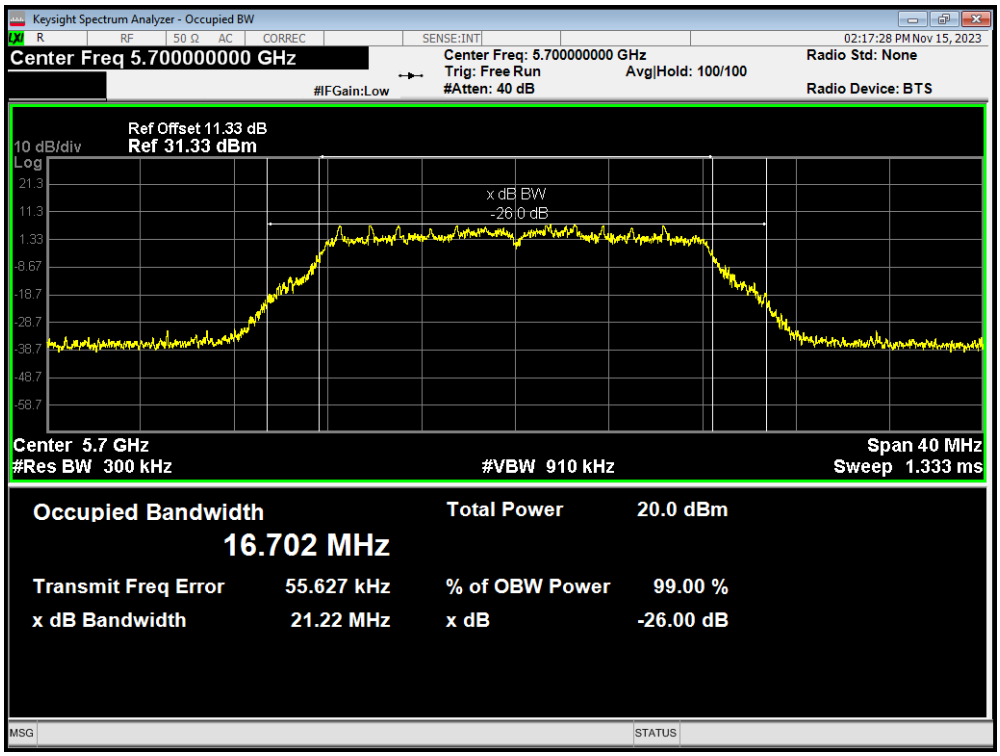
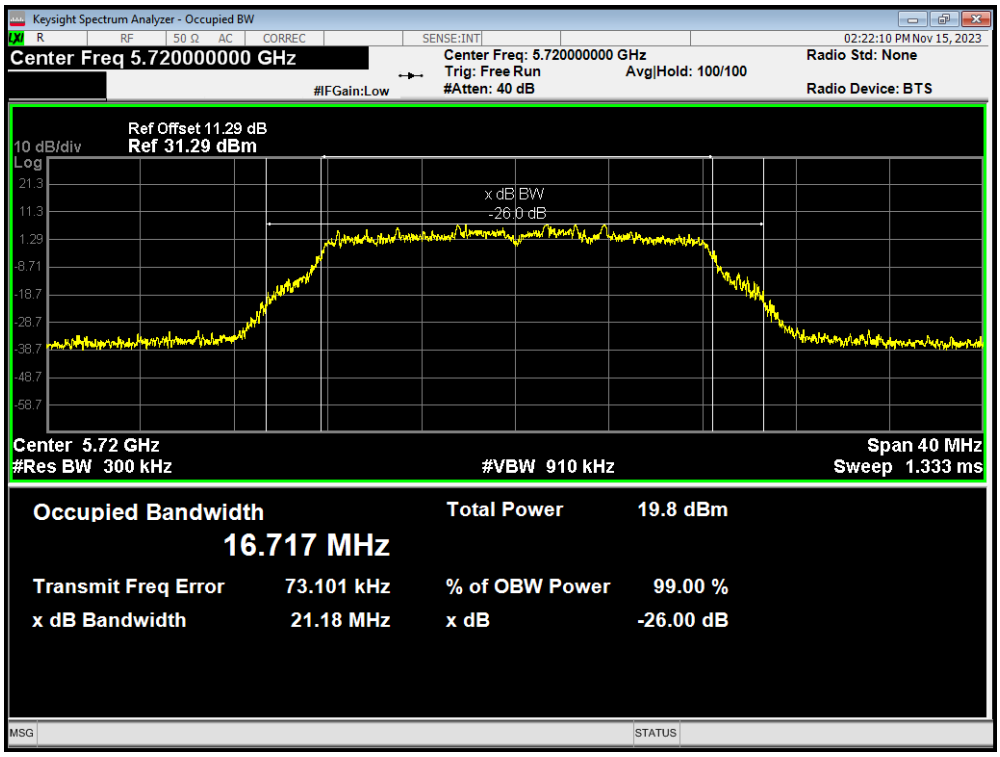
OBW 802.11a 5700MHz



OBW 802.11a 5720MHz



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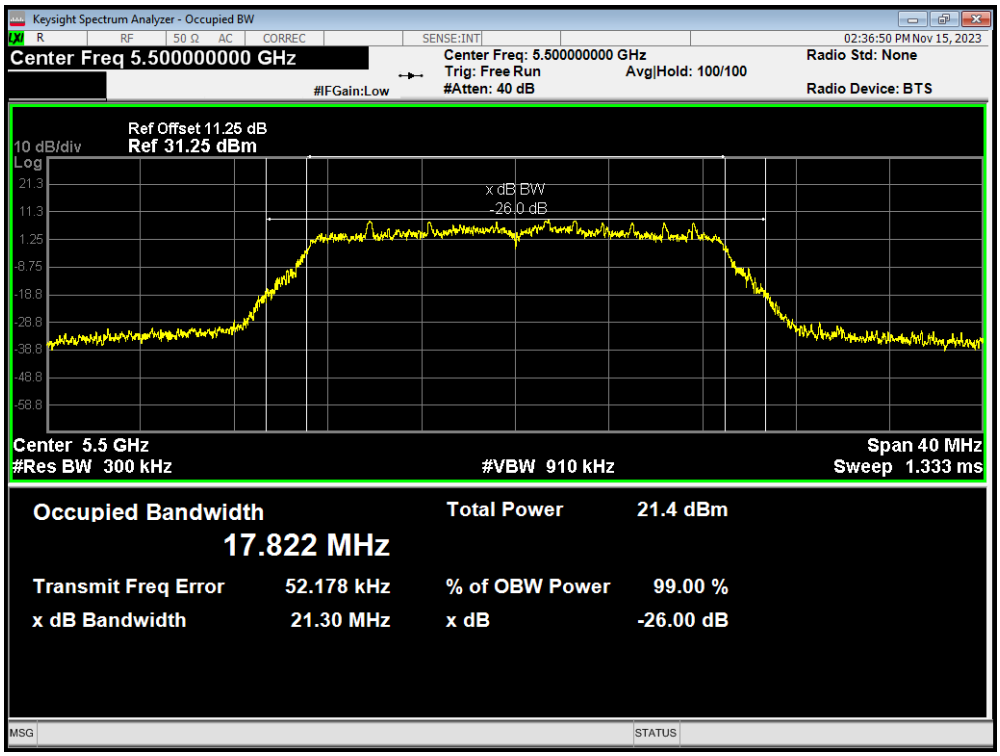
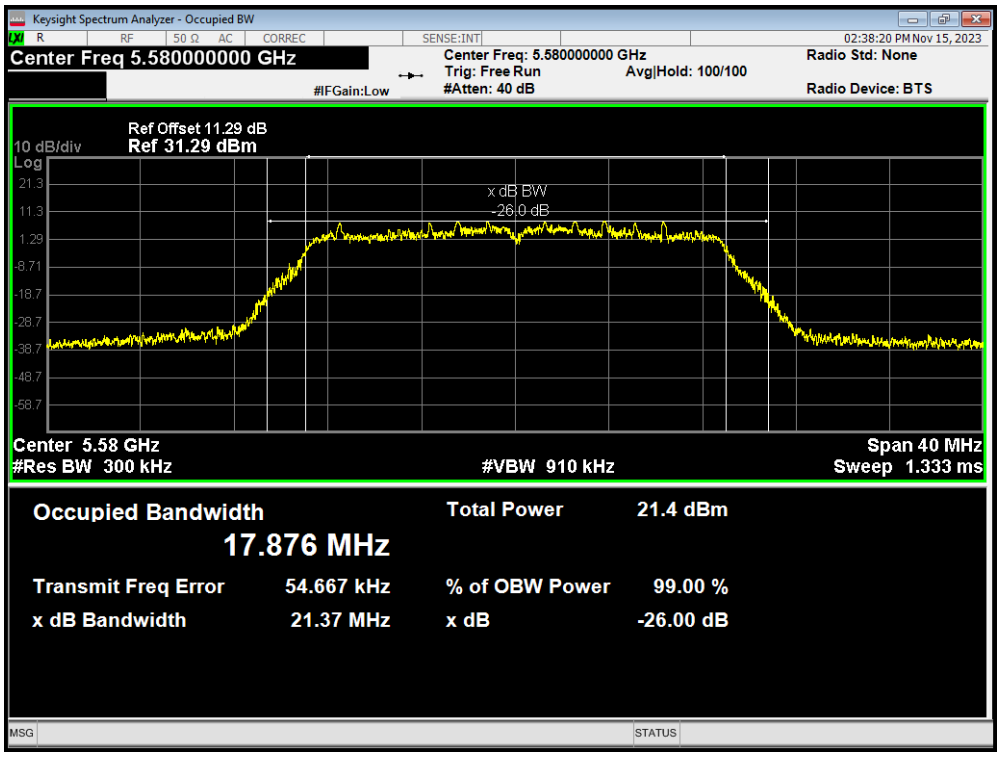
OBW 802.11ac(VHT20) 5500MHz



OBW 802.11ac(VHT20) 5580MHz



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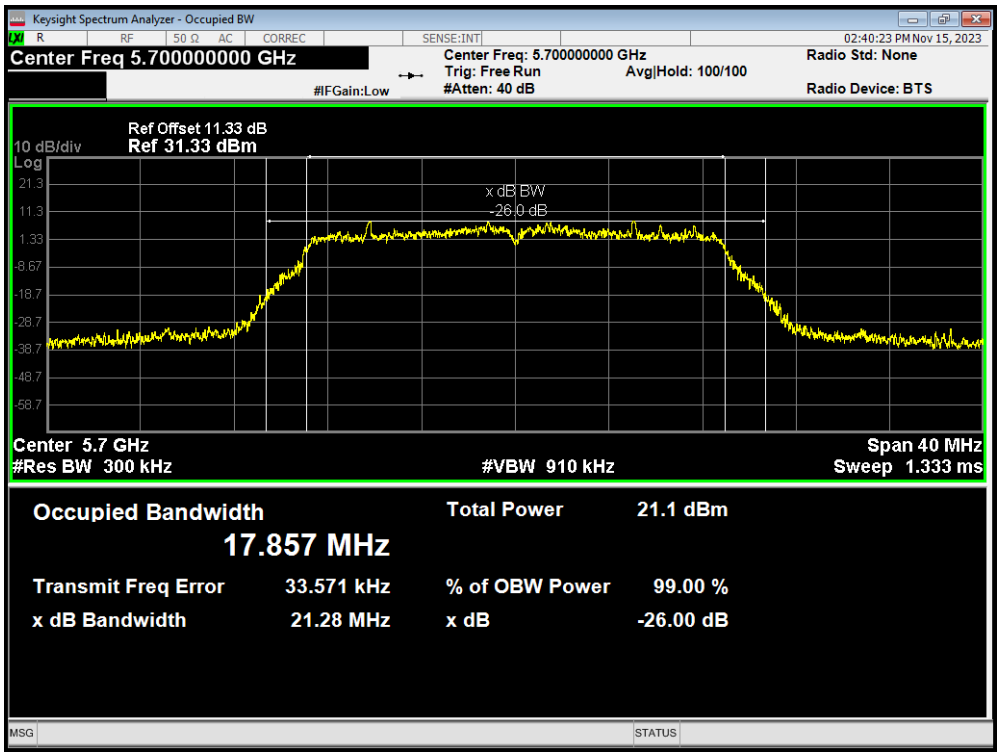
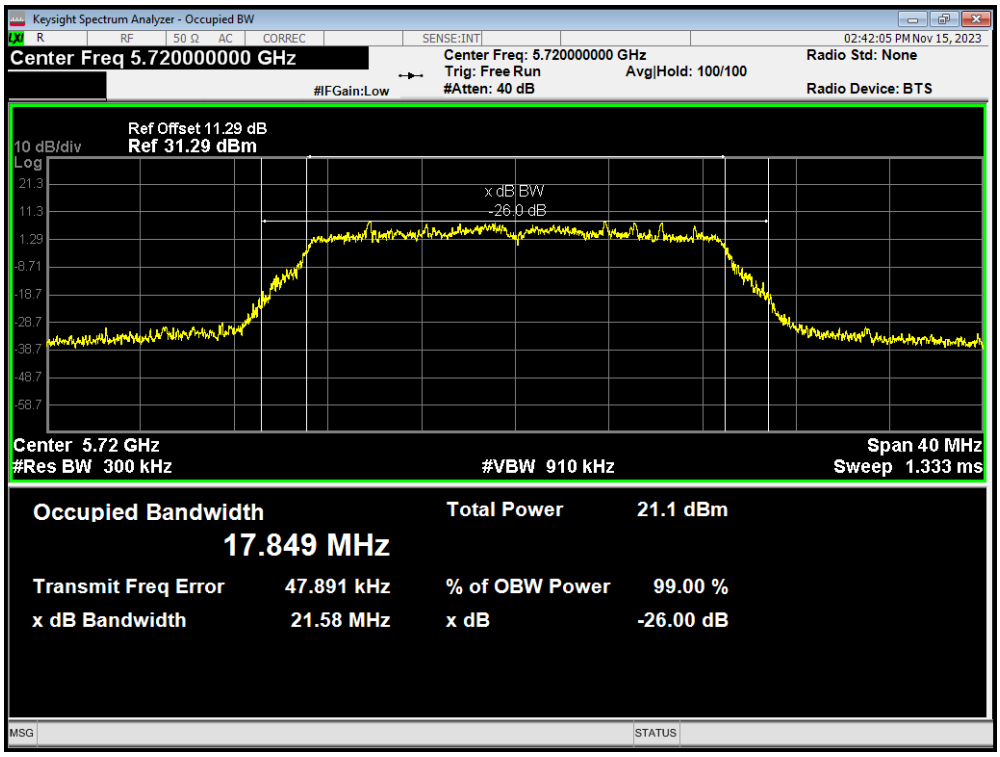
OBW 802.11ac(VHT20) 5700MHz



OBW 802.11ac(VHT20) 5720MHz



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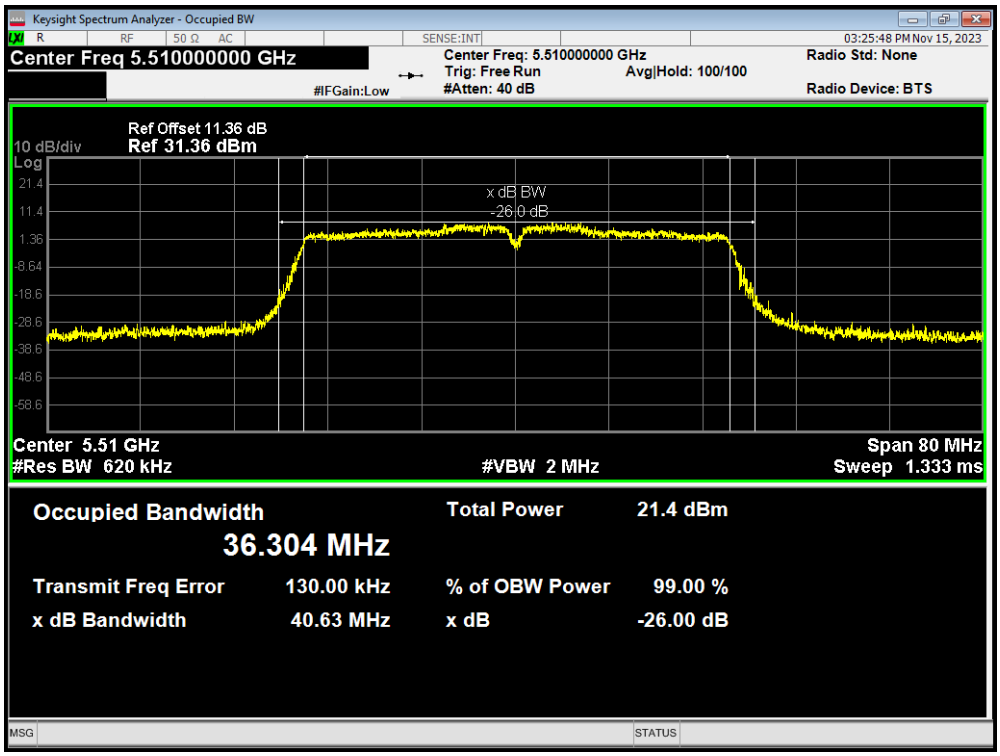
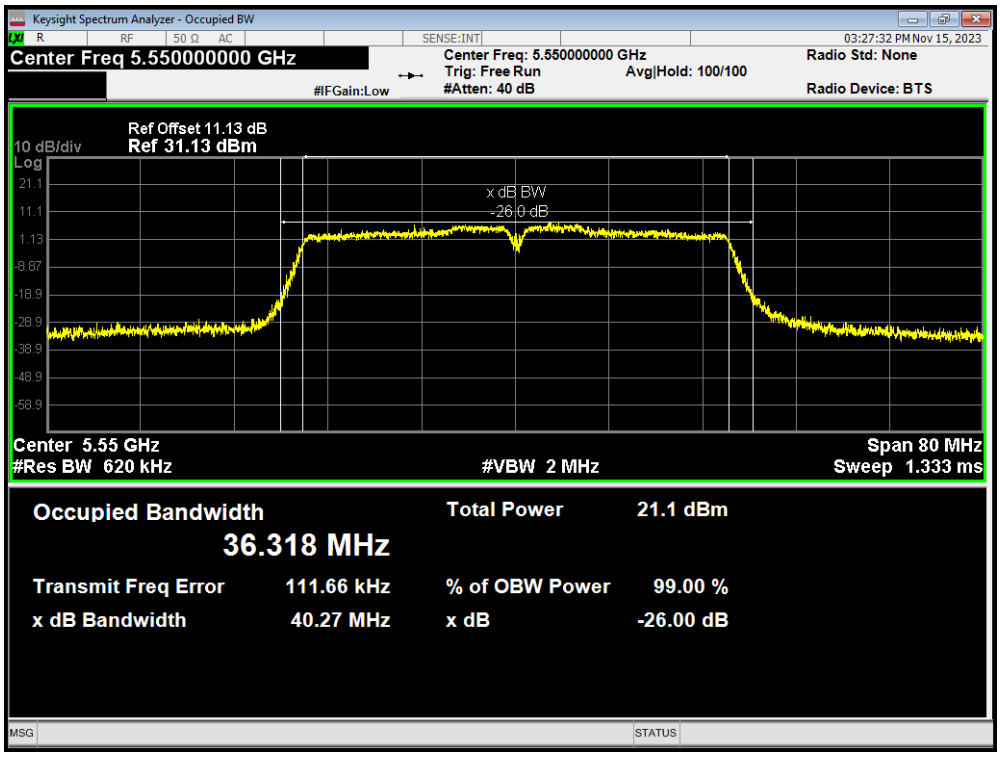
OBW 802.11ac(VHT40) 5510MHz



OBW 802.11ac(VHT40) 5550MHz



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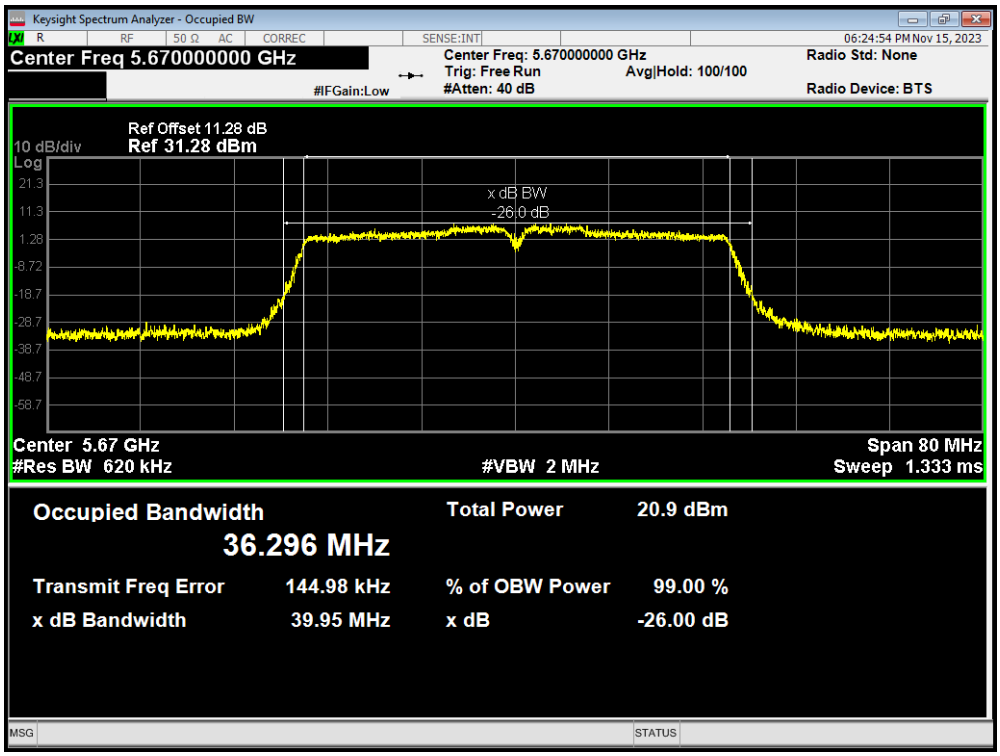
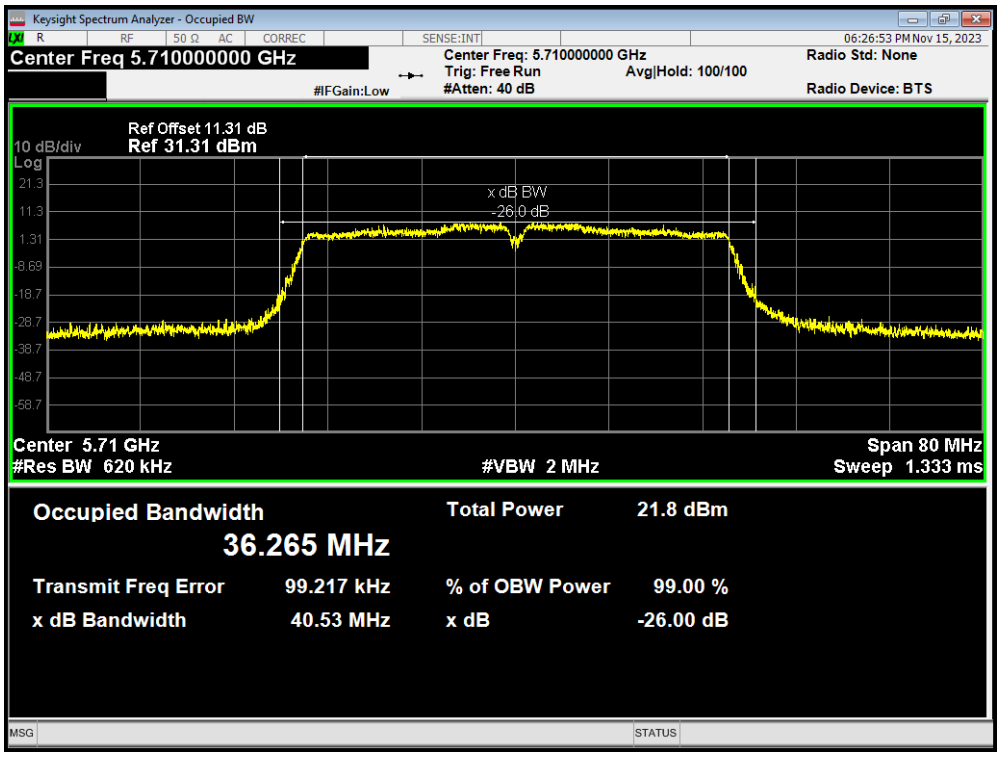
OBW 802.11ac(VHT40) 5670MHz



OBW 802.11ac(VHT40) 5710MHz



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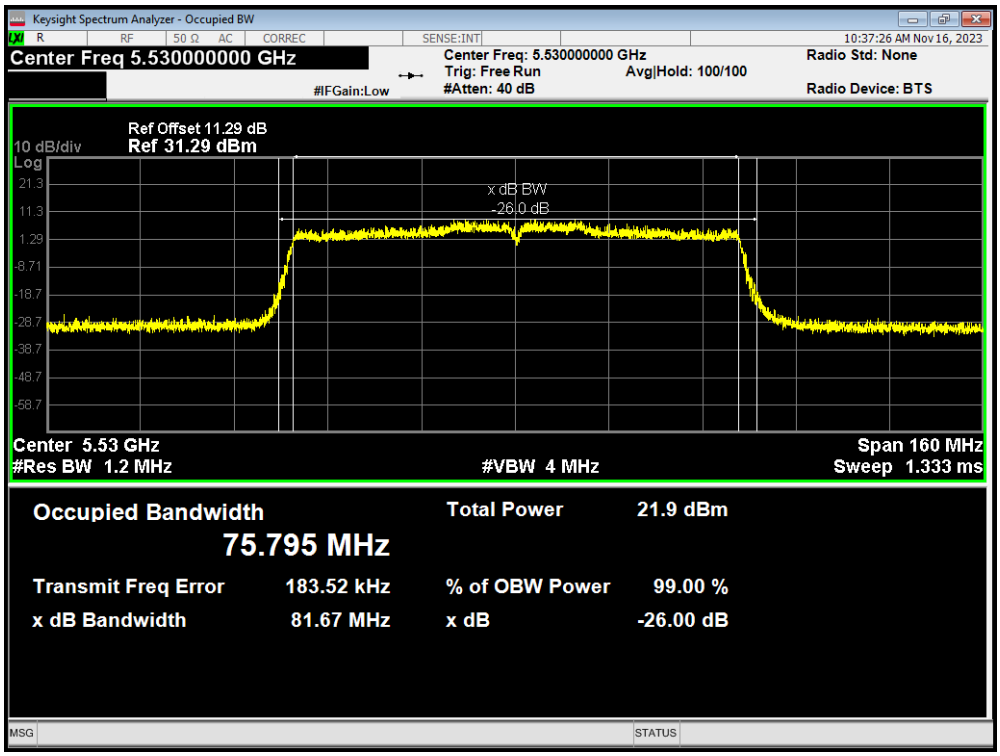
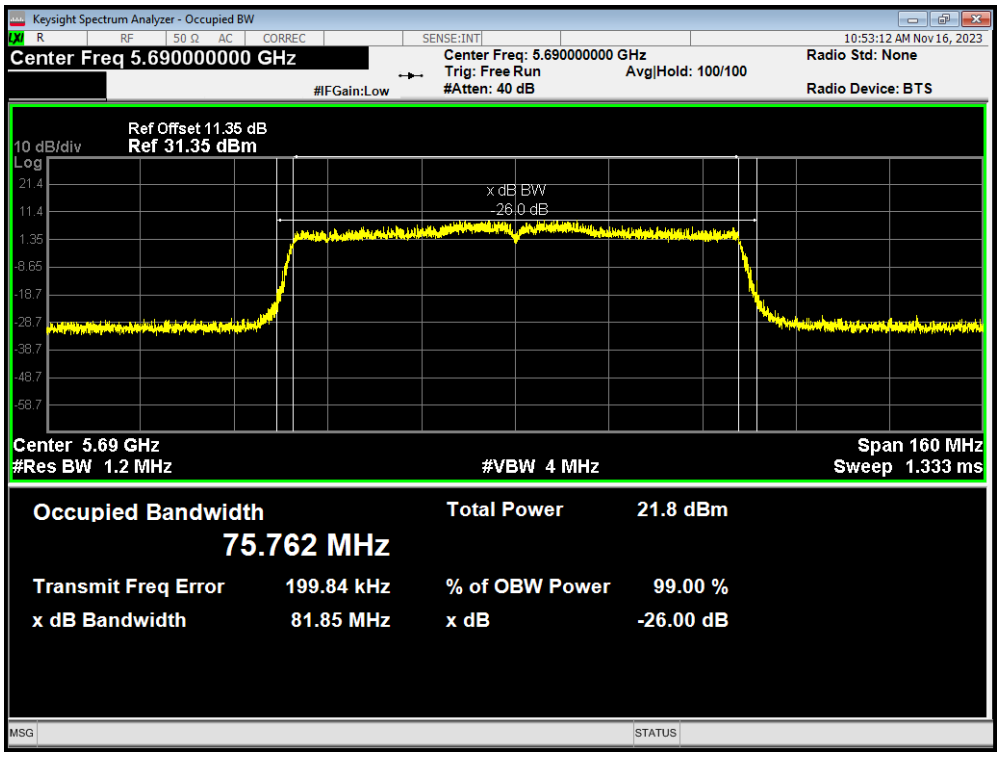
OBW 802.11ac(VHT80) 5530MHz



OBW 802.11ac(VHT80) 5690MHz



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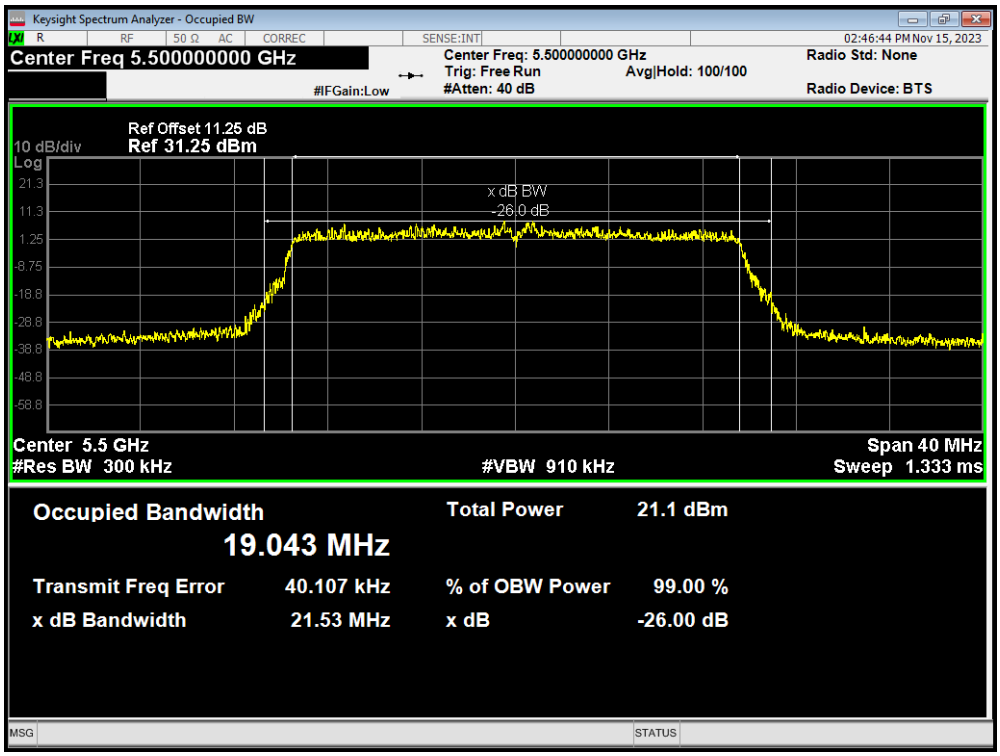
OBW 802.11ax(HE20) 5500MHz



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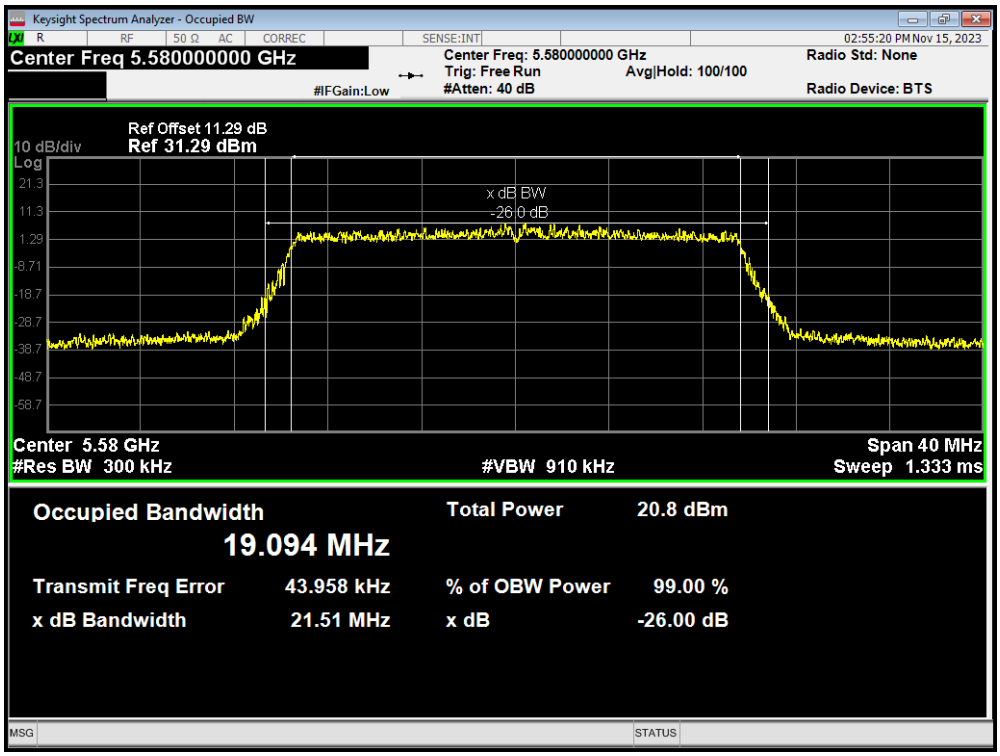
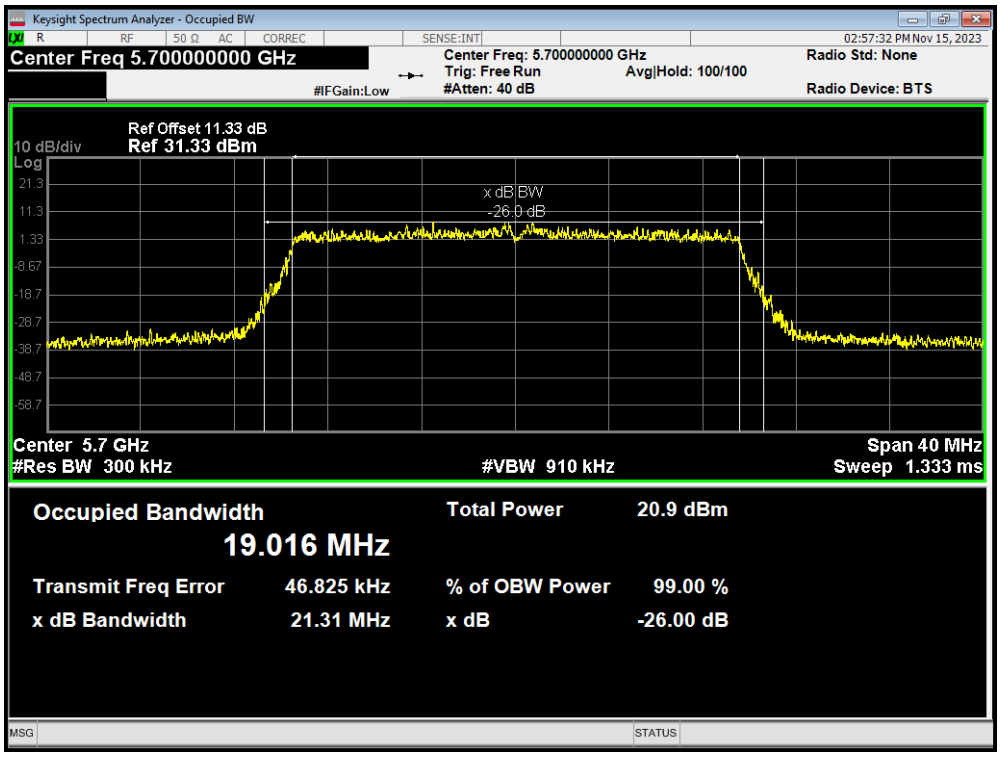
OBW 802.11ax(HE20) 5580MHz



OBW 802.11ax(HE20) 5700MHz



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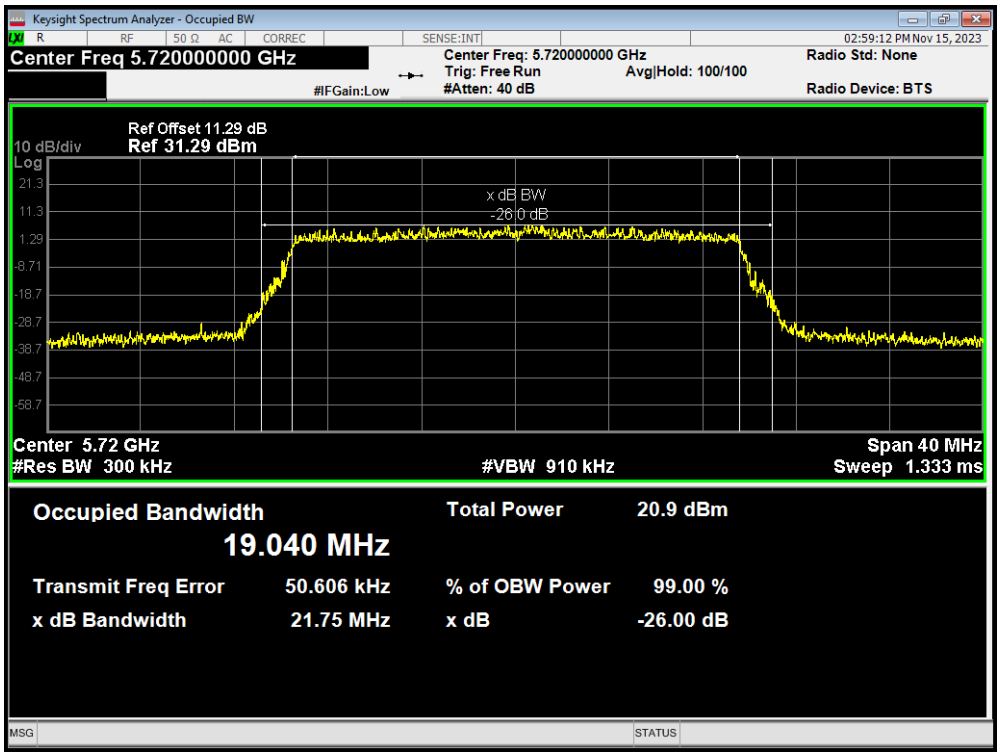
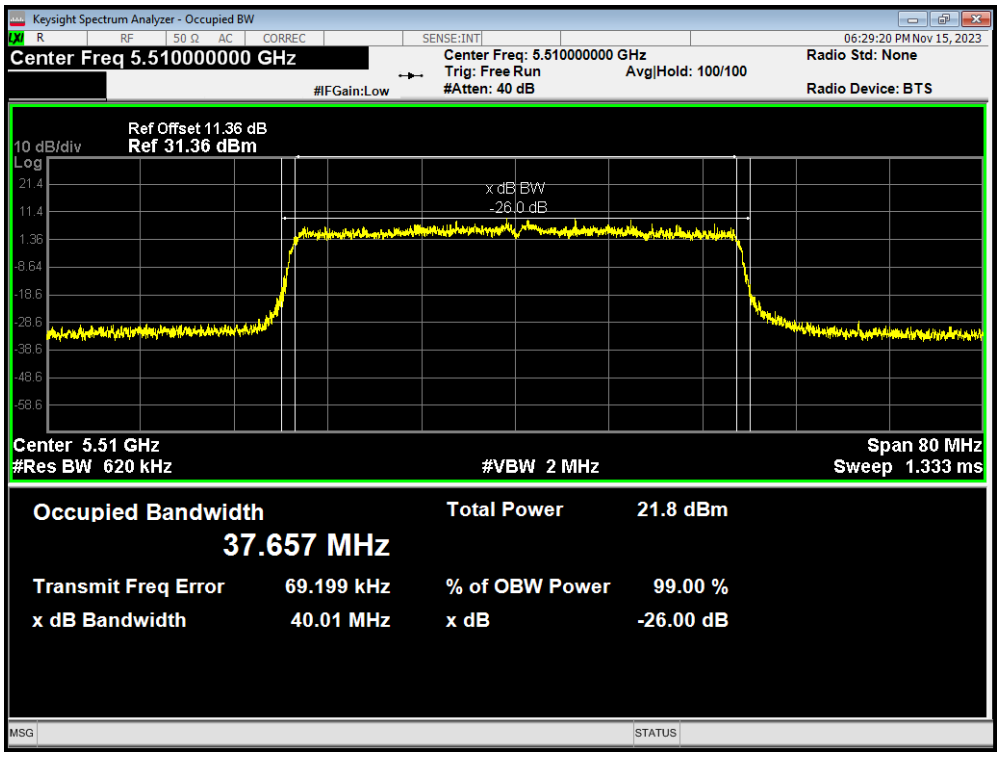
OBW 802.11ax(HE20) 5720MHz



OBW 802.11ax(HE40) 5510MHz



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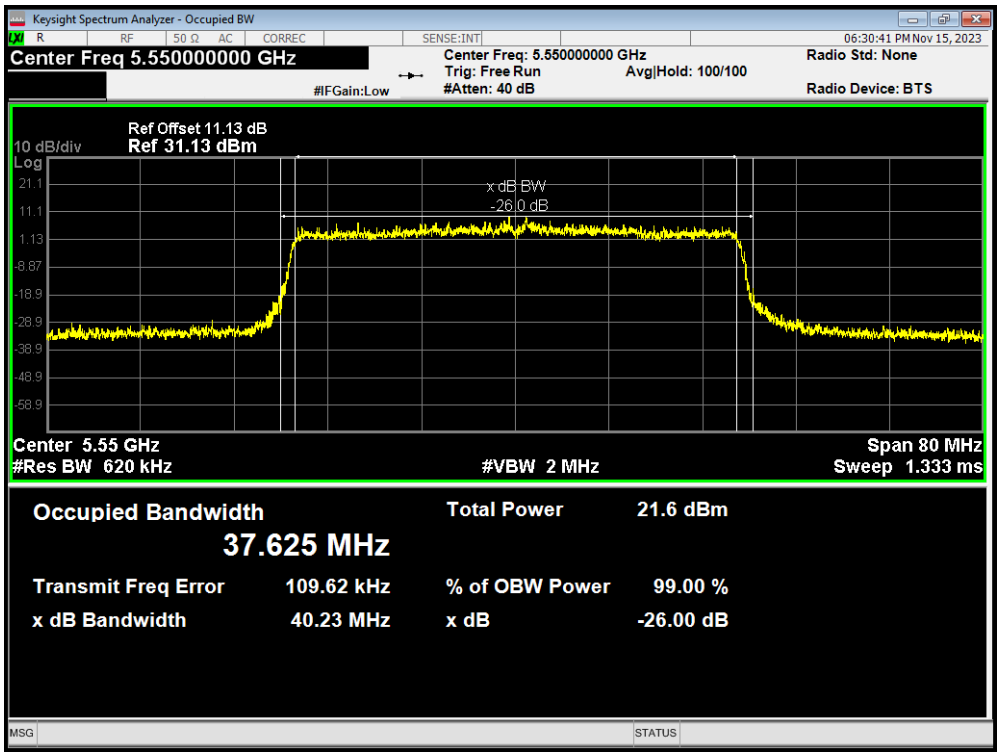
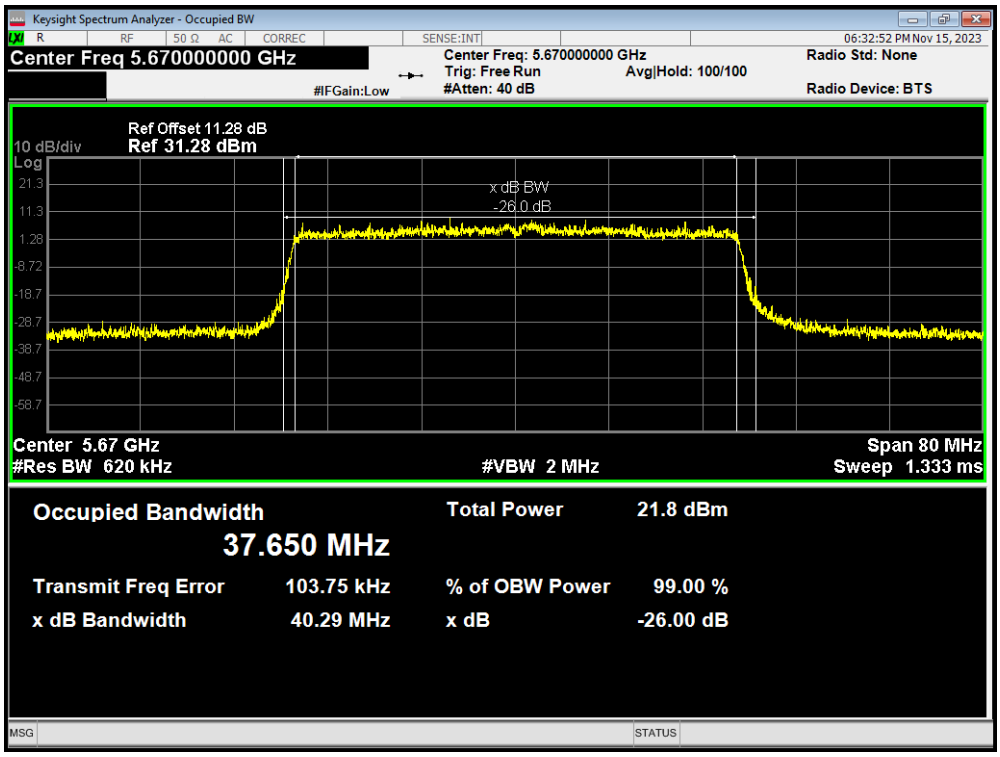
OBW 802.11ax(HE40) 5550MHz



OBW 802.11ax(HE40) 5670MHz



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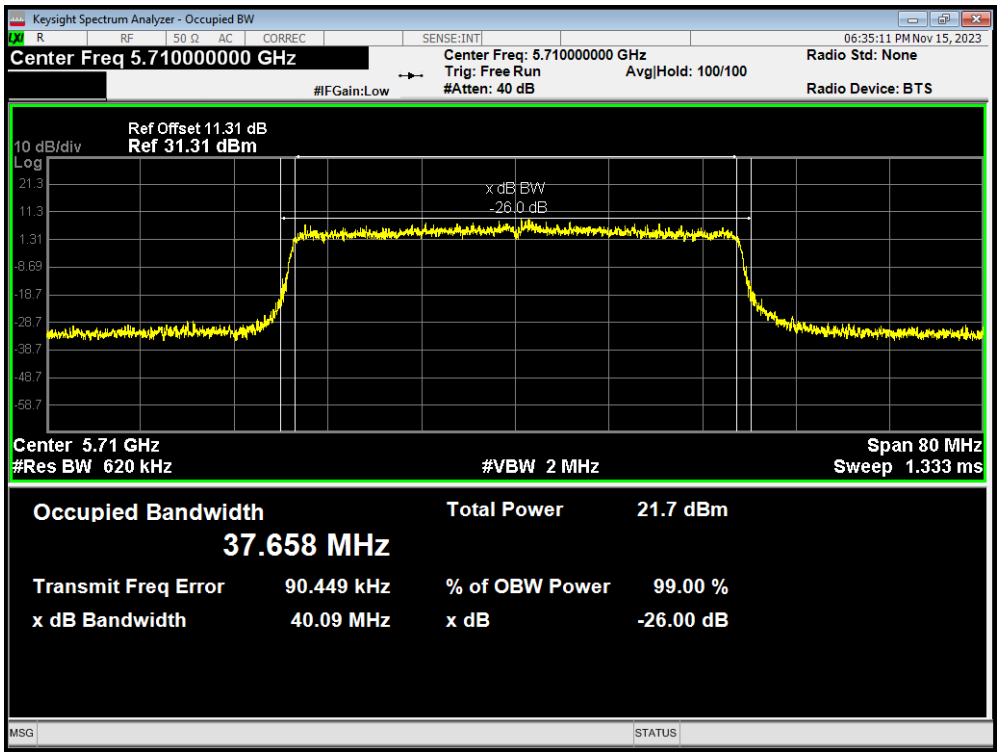
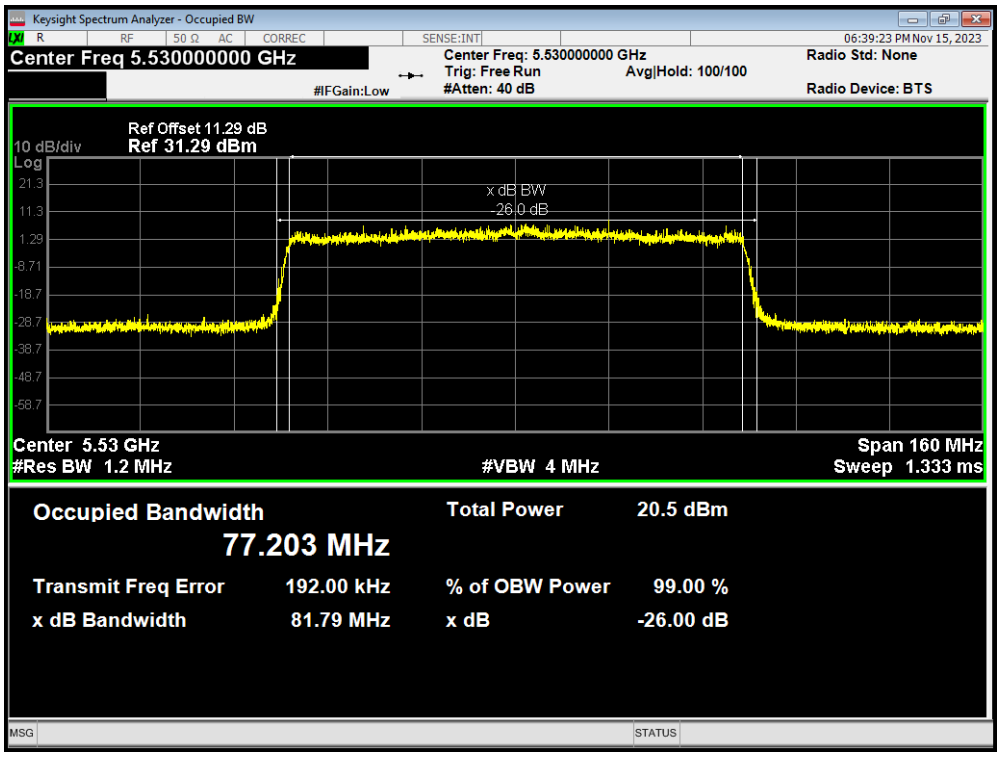
OBW 802.11ax(HE40) 5710MHz



OBW 802.11ax(HE80) 5530MHz



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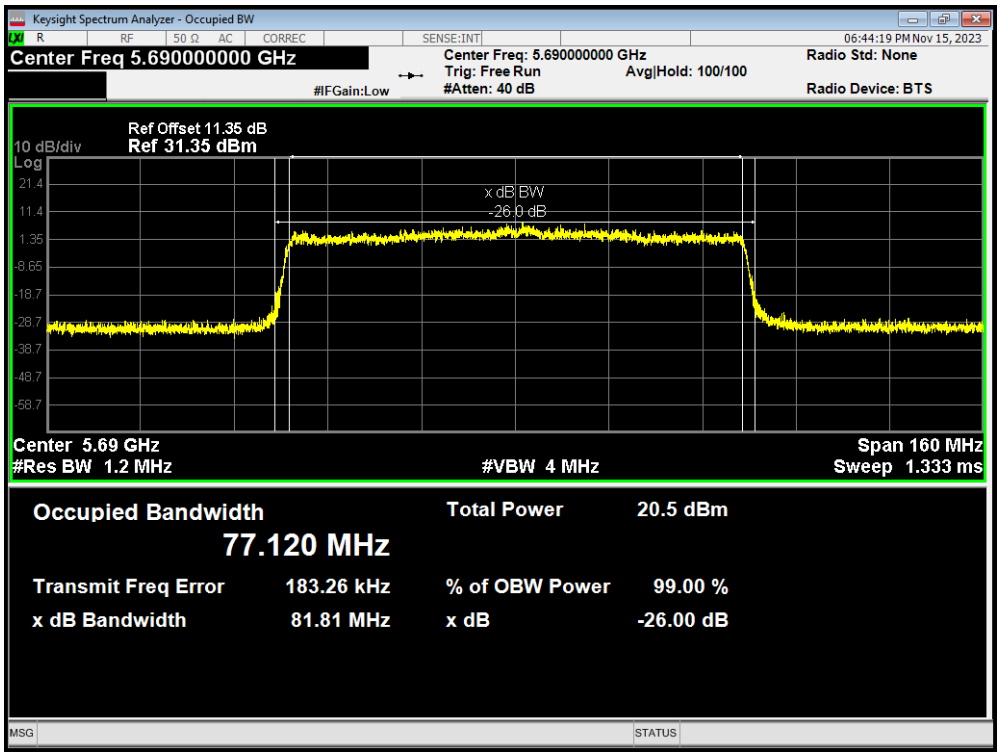
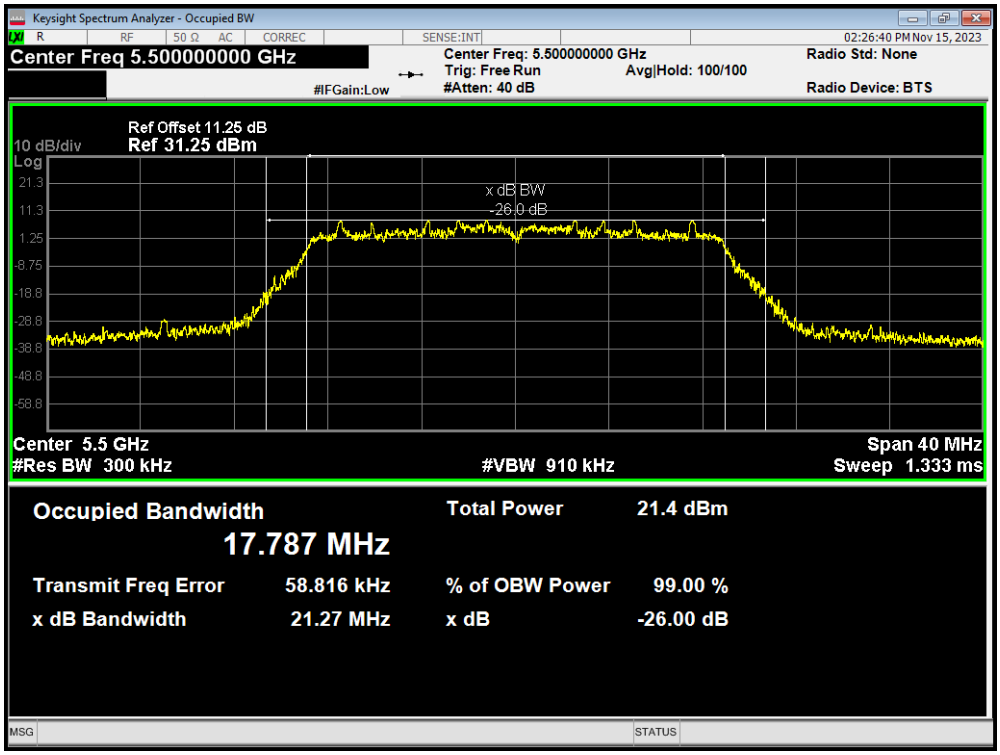
OBW 802.11ax(HE80) 5690MHz



OBW 802.11n(HT20) 5500MHz



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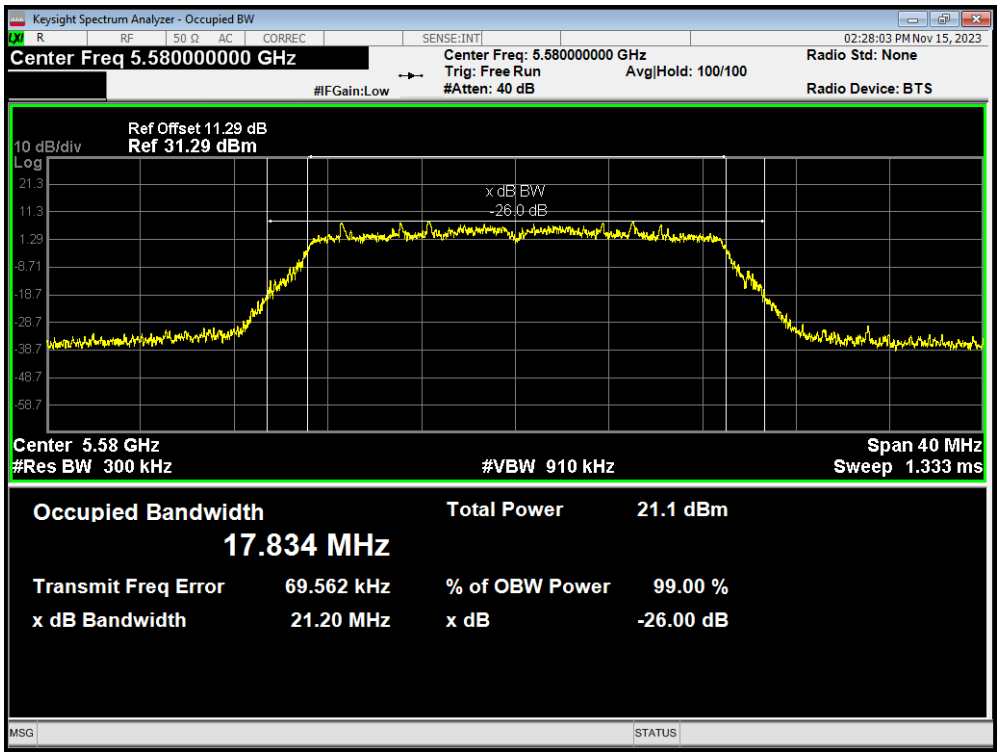
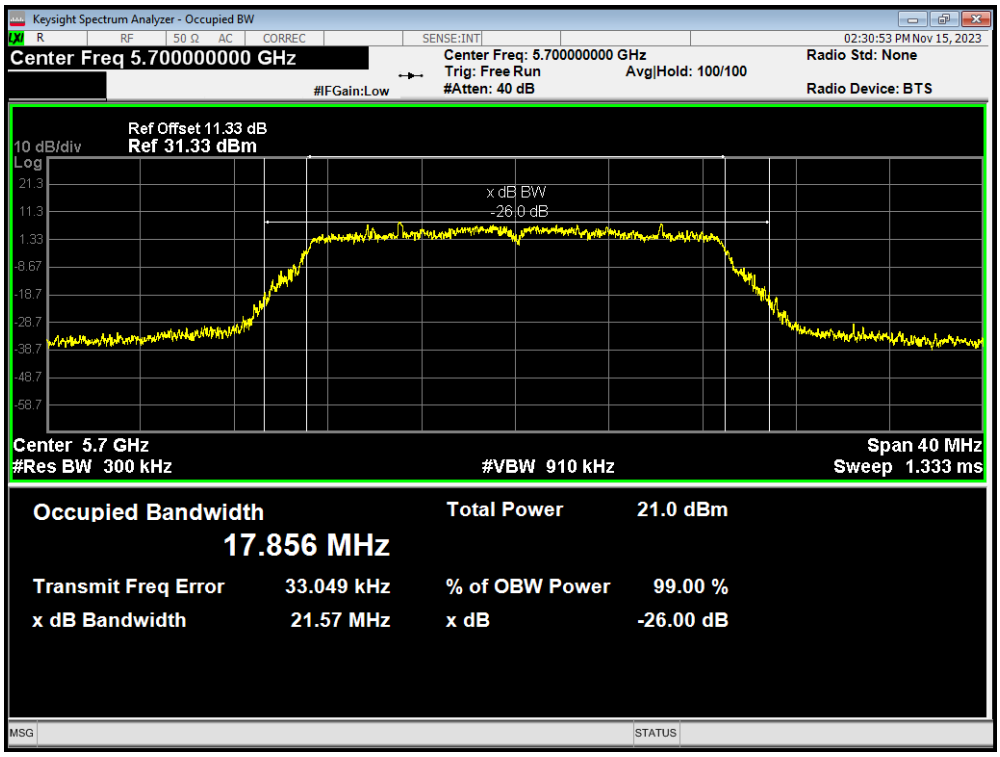
OBW 802.11n(HT20) 5580MHz



OBW 802.11n(HT20) 5700MHz



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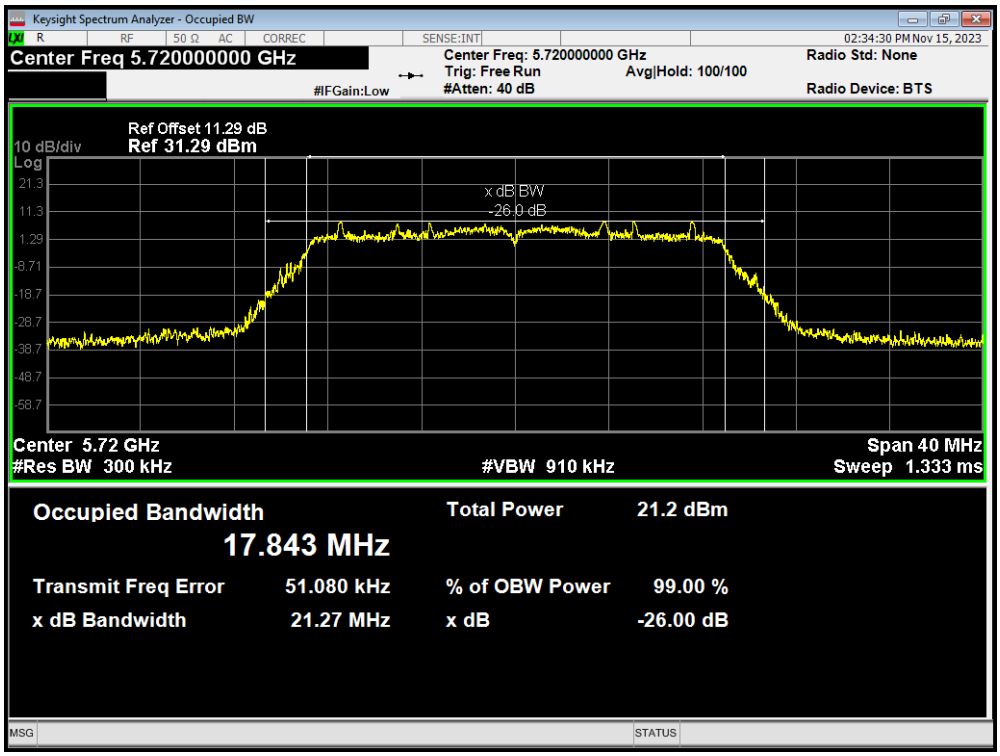
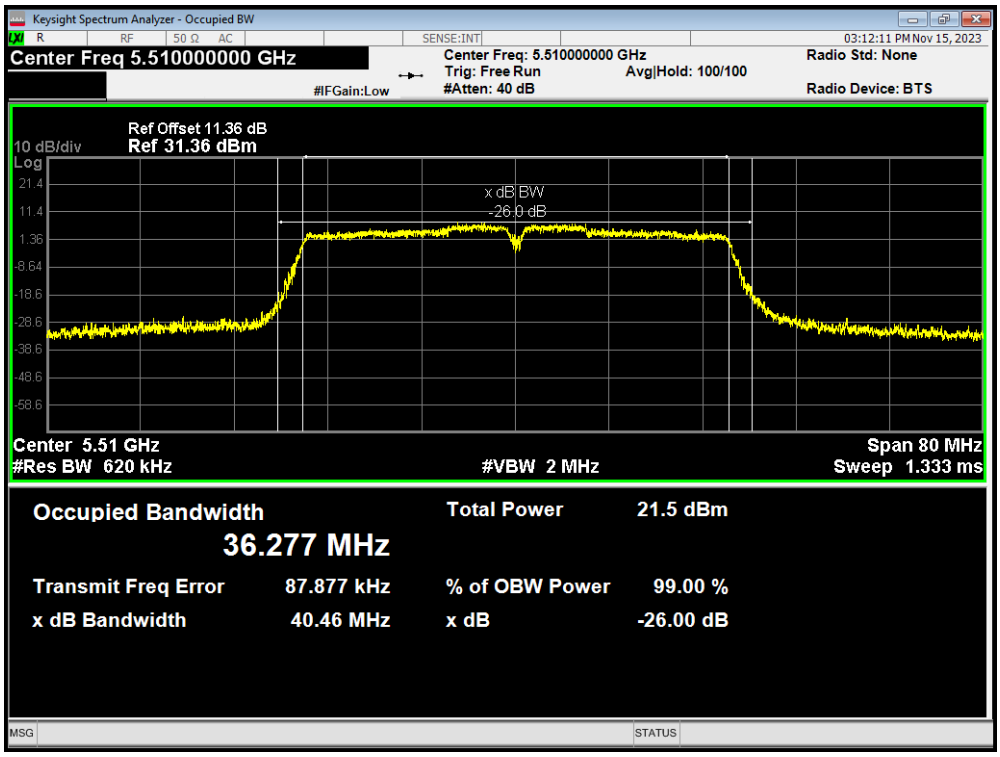
OBW 802.11n(HT20) 5720MHz



OBW 802.11n(HT40) 5510MHz



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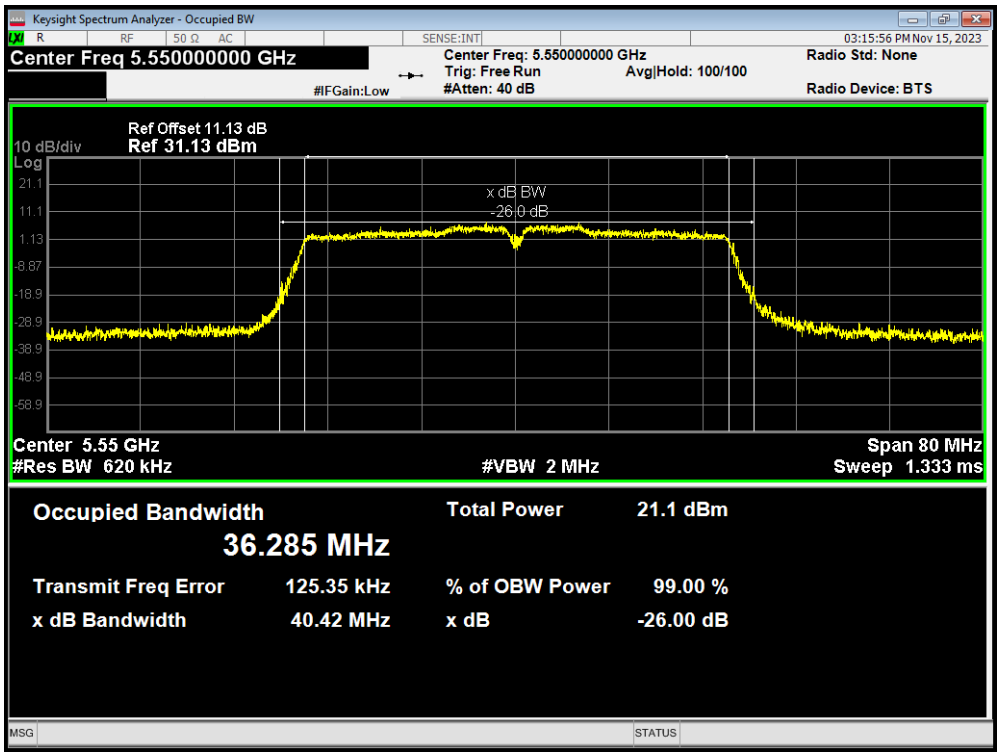
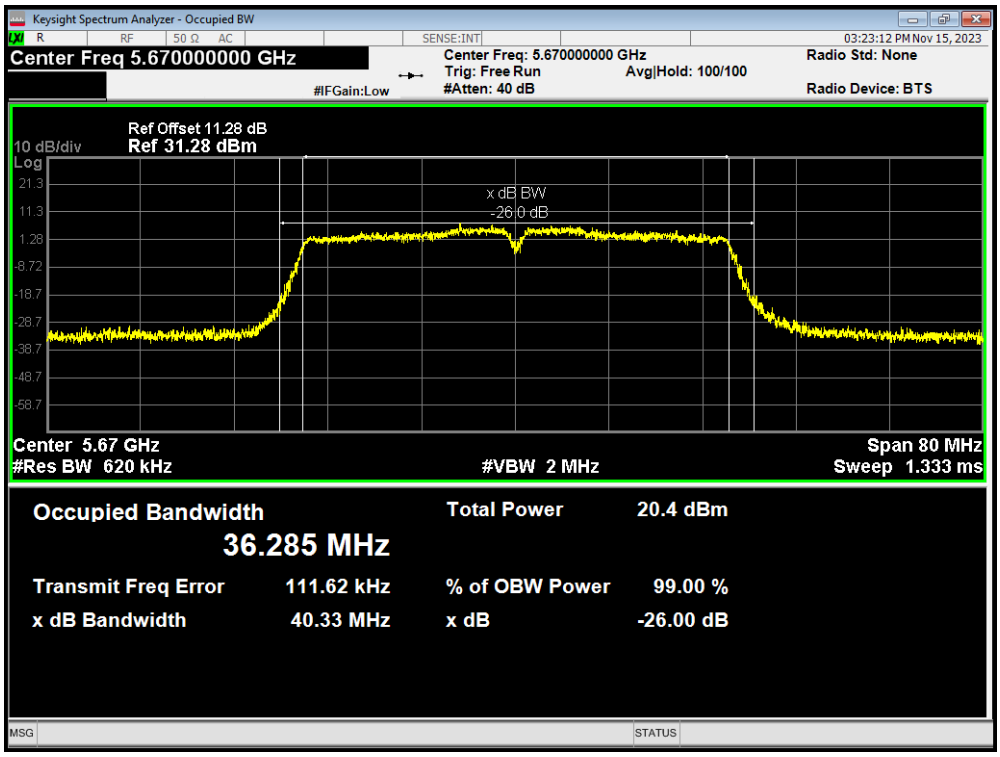
OBW 802.11n(HT40) 5550MHz



OBW 802.11n(HT40) 5670MHz



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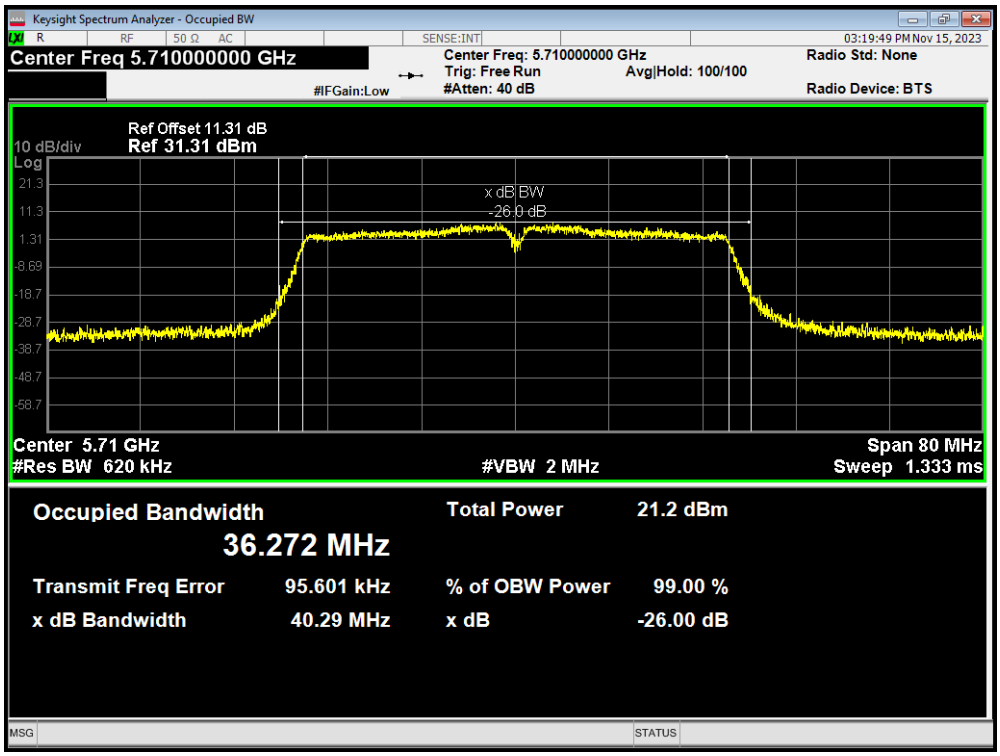
OBW 802.11n(HT40) 5710MHz



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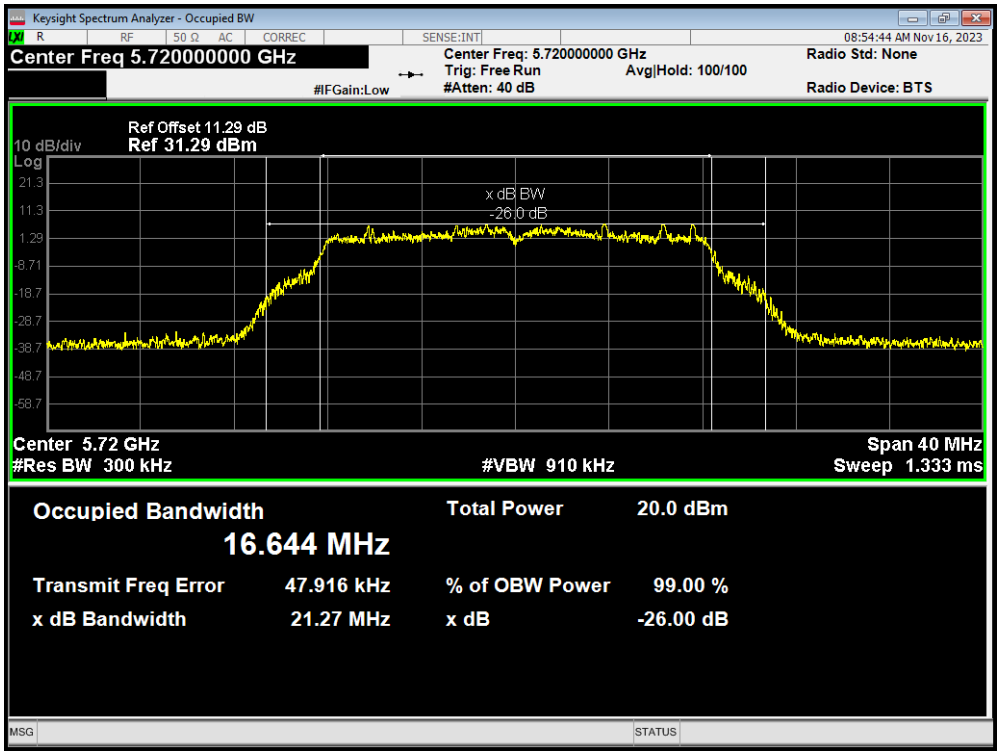
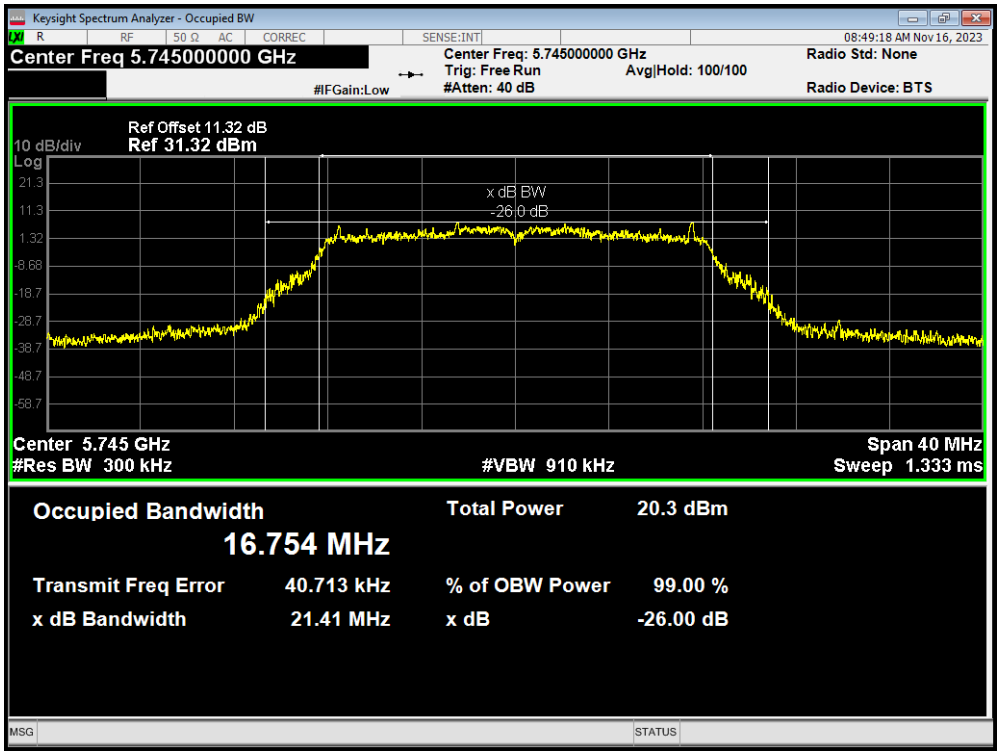
U-NII-3

OBW 802.11a 5720MHz



OBW 802.11a 5745MHz



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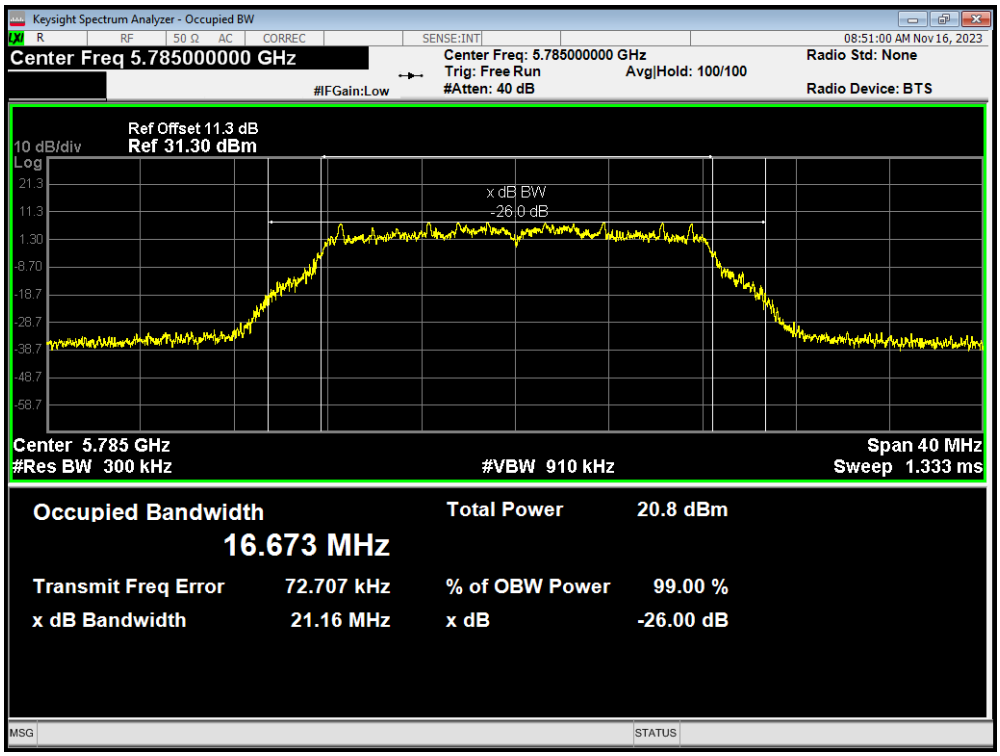
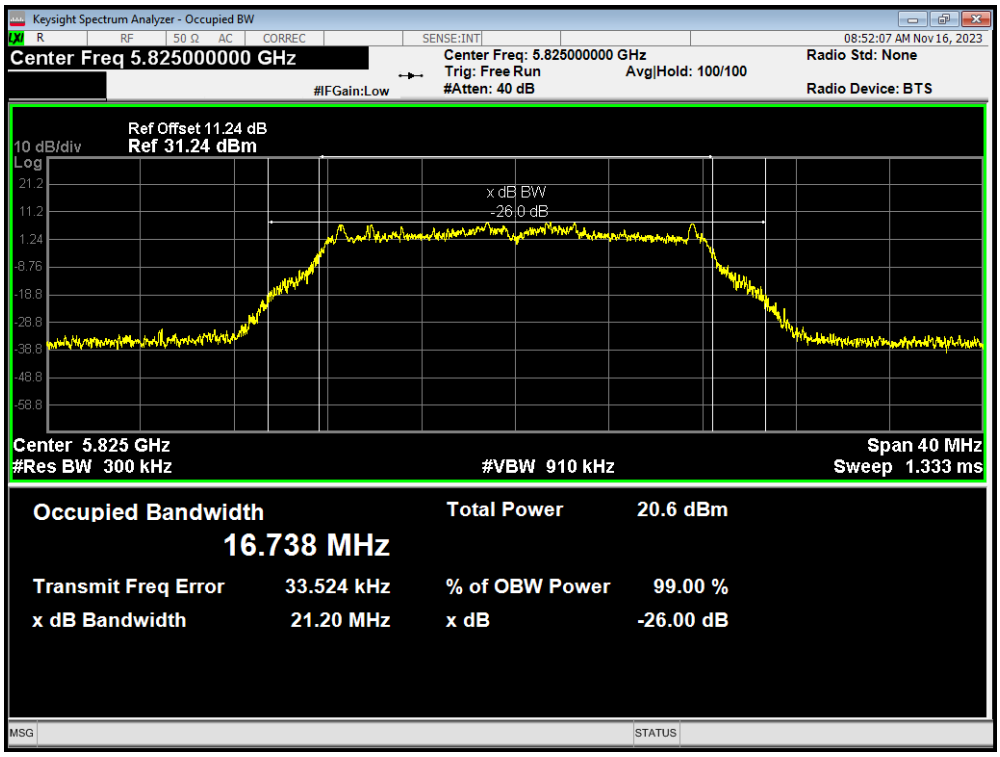
OBW 802.11a 5785MHz



OBW 802.11a 5825MHz



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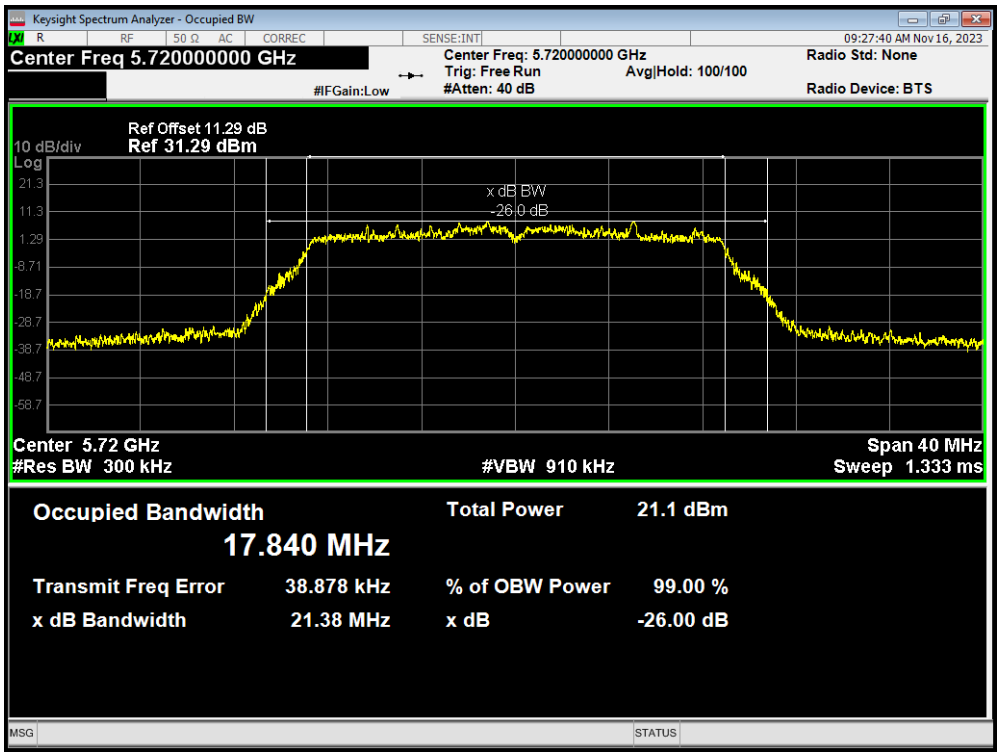
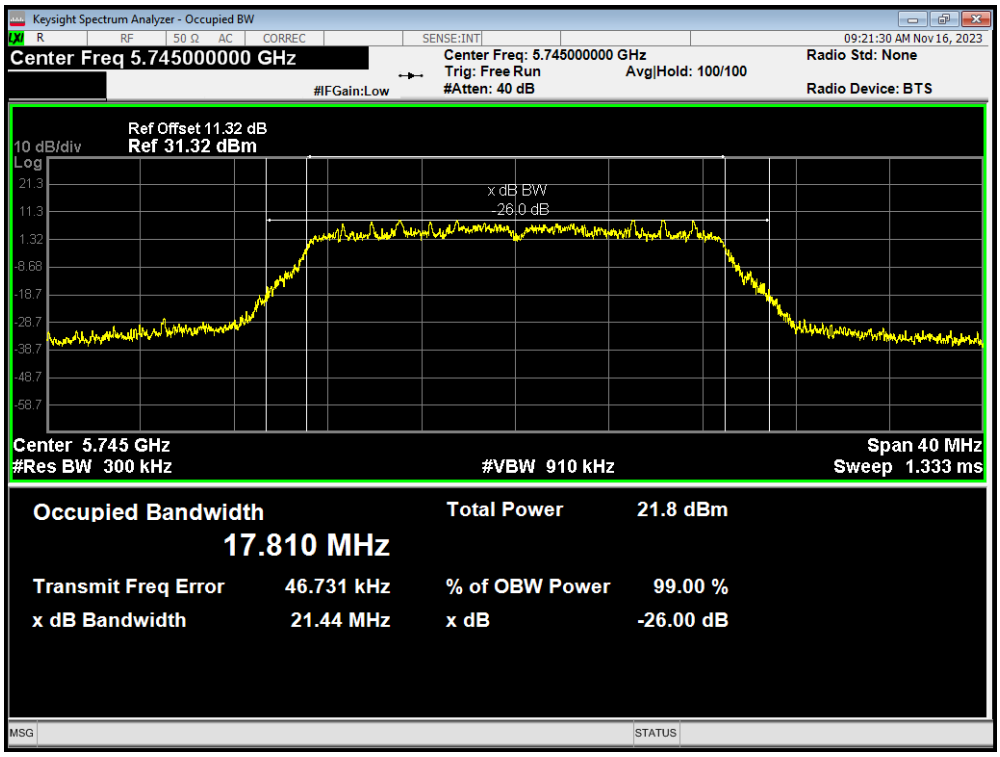
OBW 802.11ac(VHT20) 5720MHz



OBW 802.11ac(VHT20) 5745MHz



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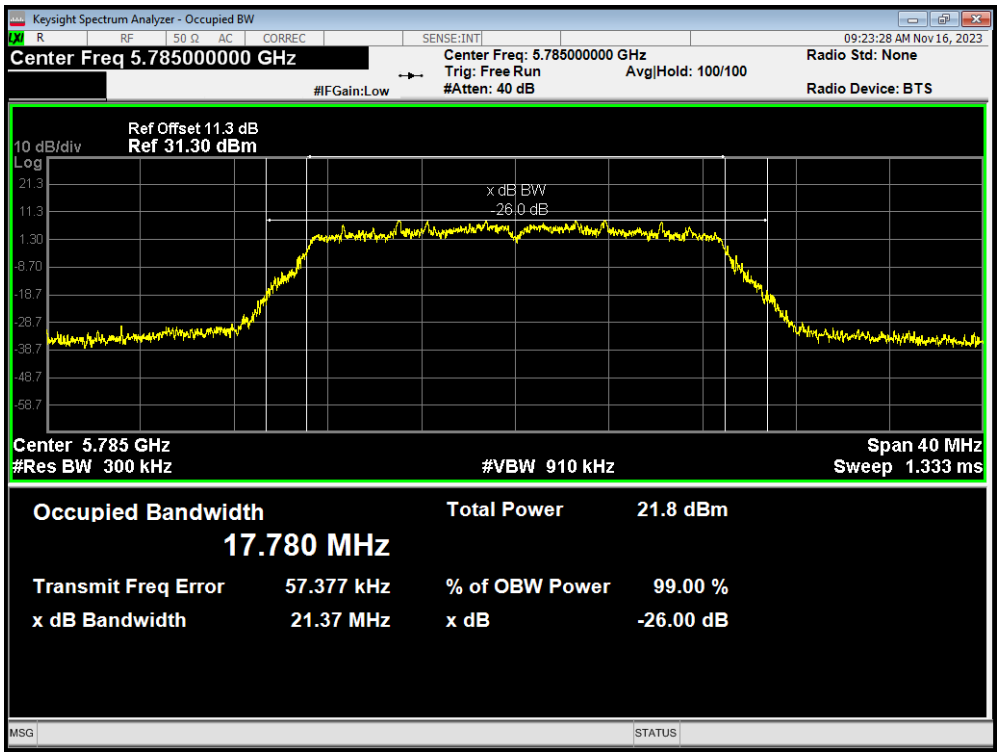
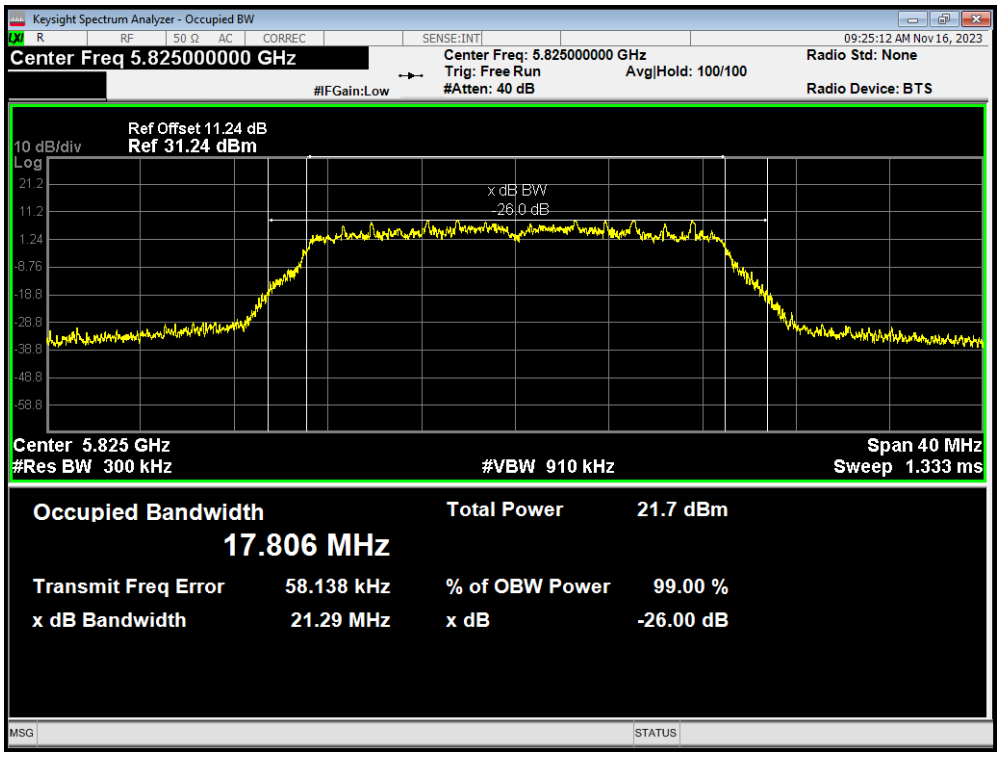
OBW 802.11ac(VHT20) 5785MHz



OBW 802.11ac(VHT20) 5825MHz



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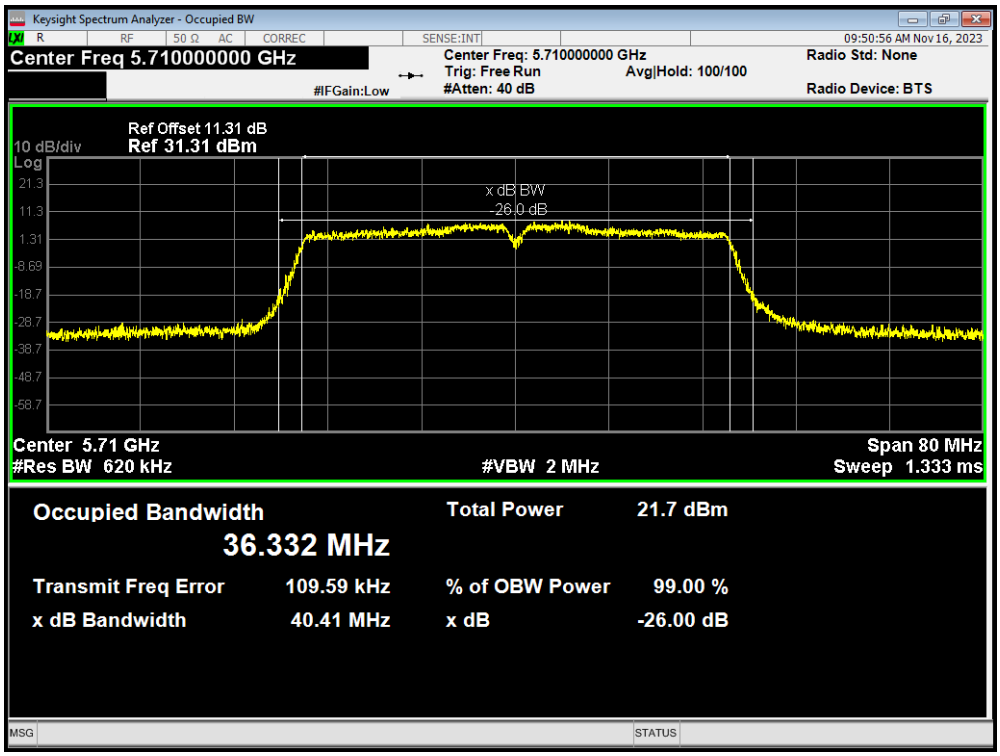
OBW 802.11ac(VHT40) 5710MHz



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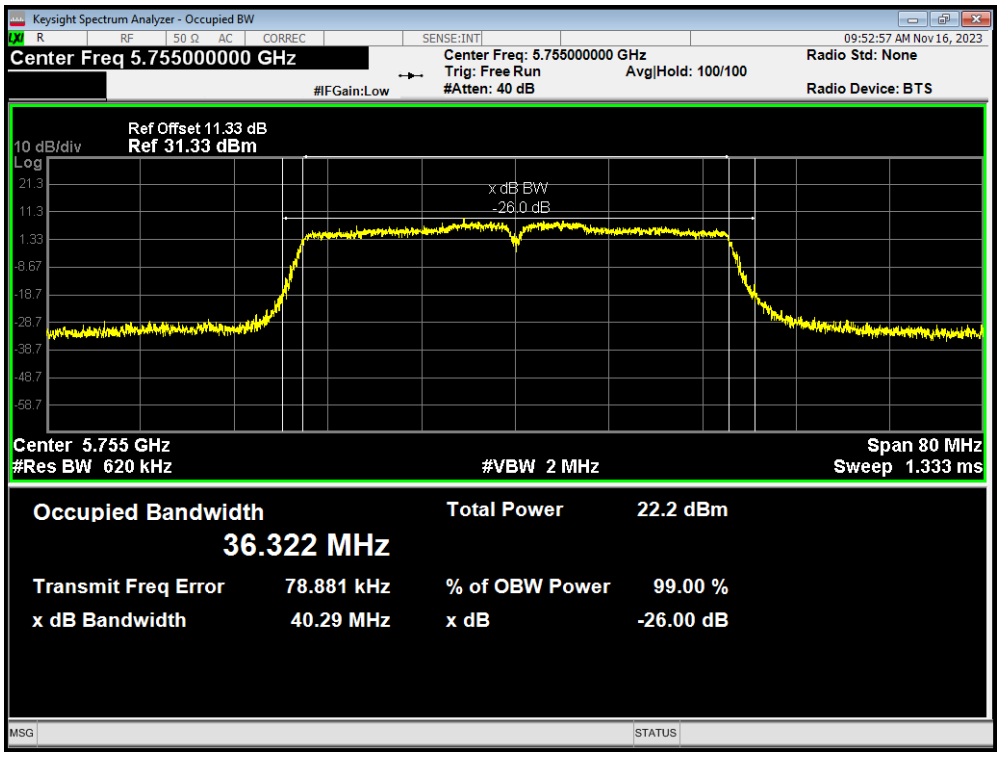

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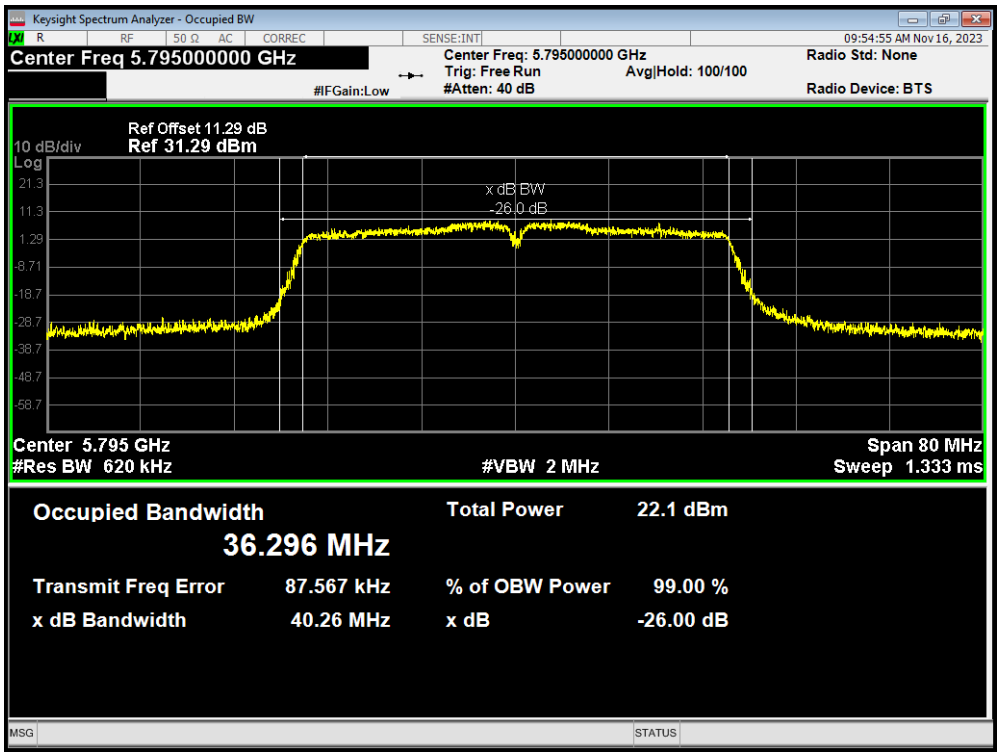
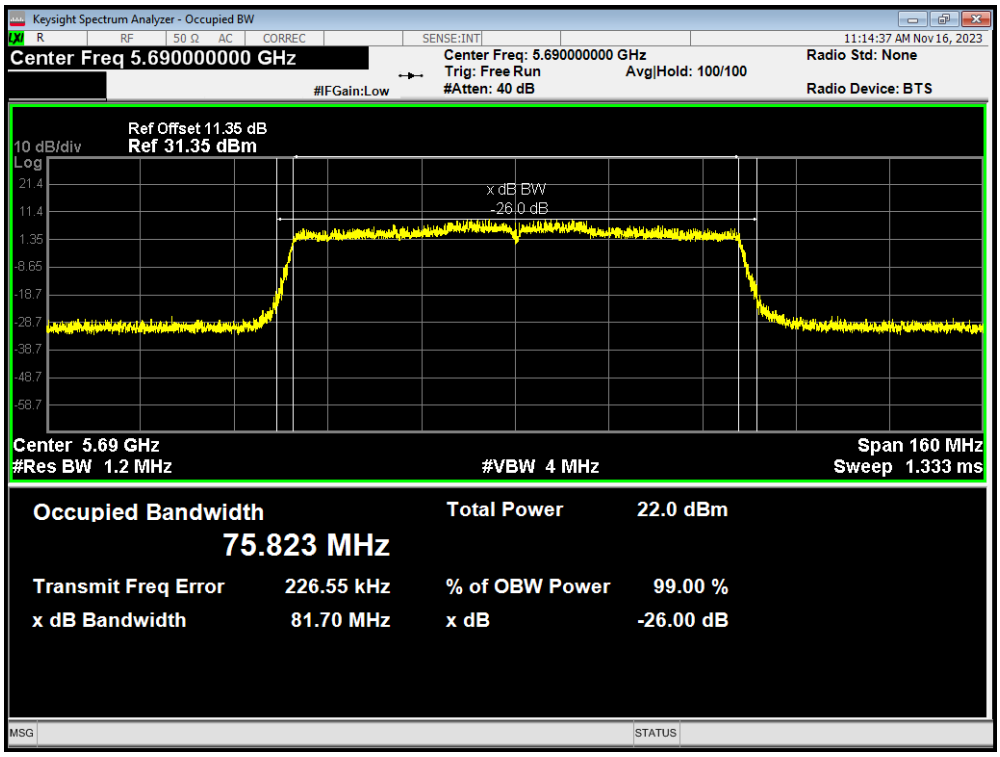
OBW 802.11ac(VHT40) 5795MHz



OBW 802.11ac(VHT80) 5690MHz



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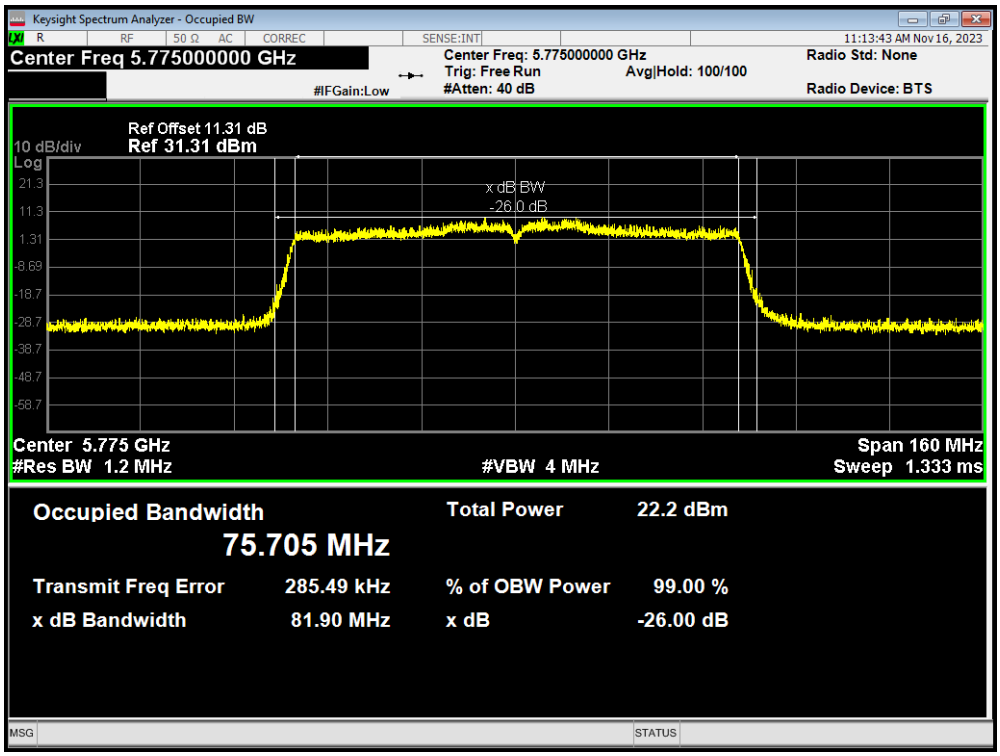
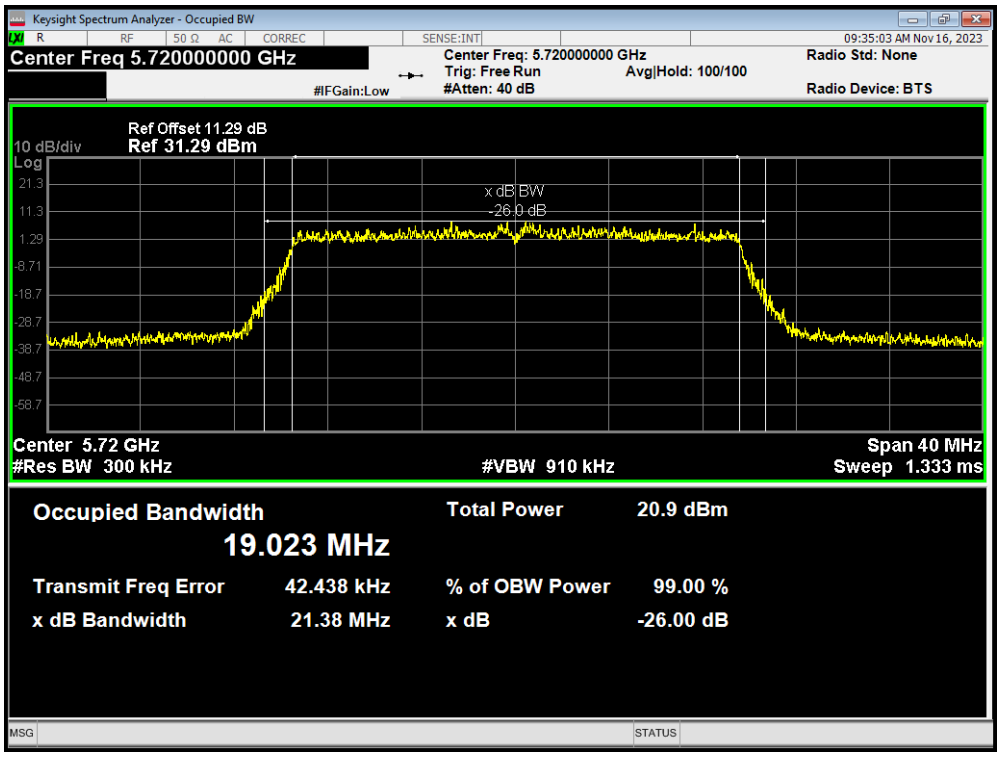
OBW 802.11ac(VHT80) 5775MHz



OBW 802.11ax(HE20) 5720MHz



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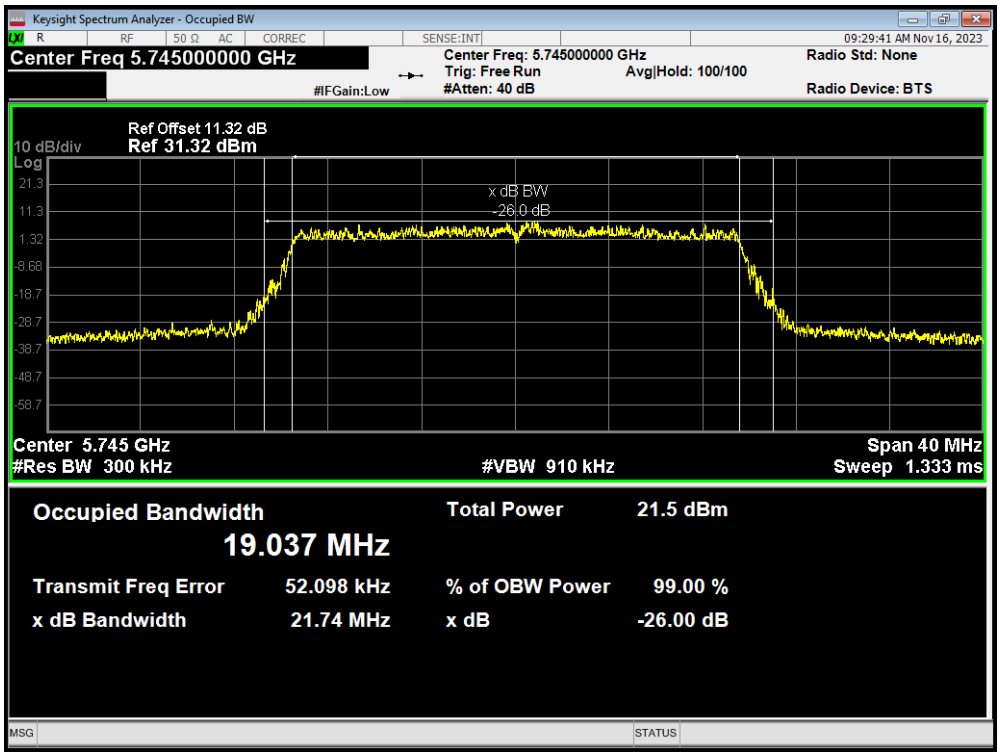
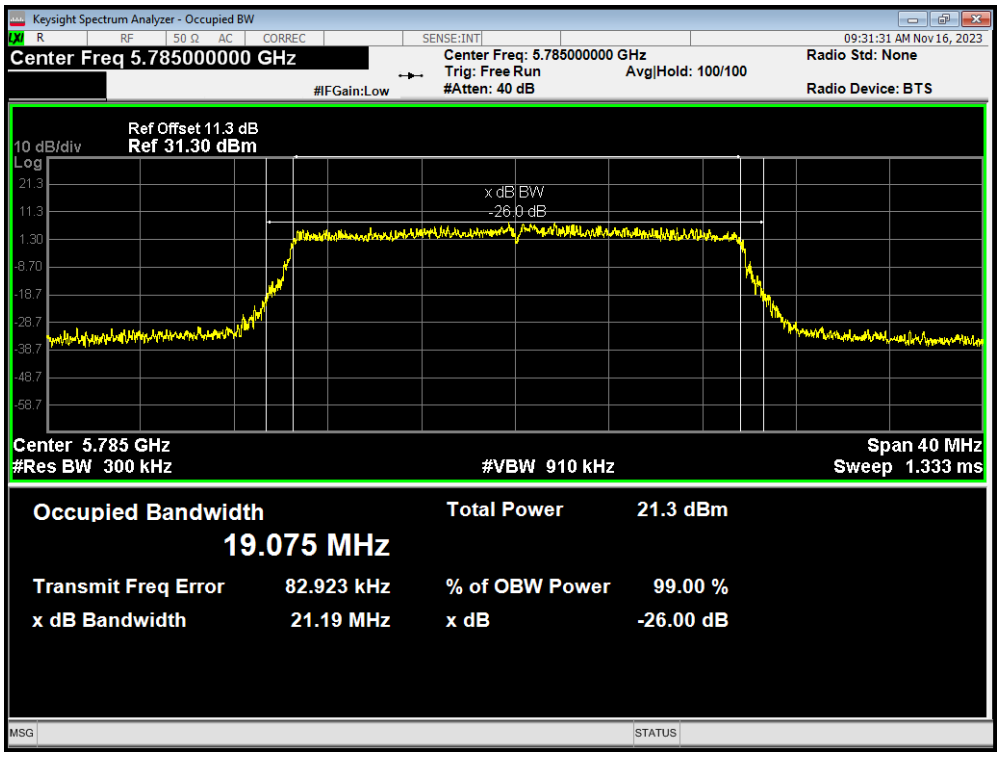
OBW 802.11ax(HE20) 5745MHz



OBW 802.11ax(HE20) 5785MHz



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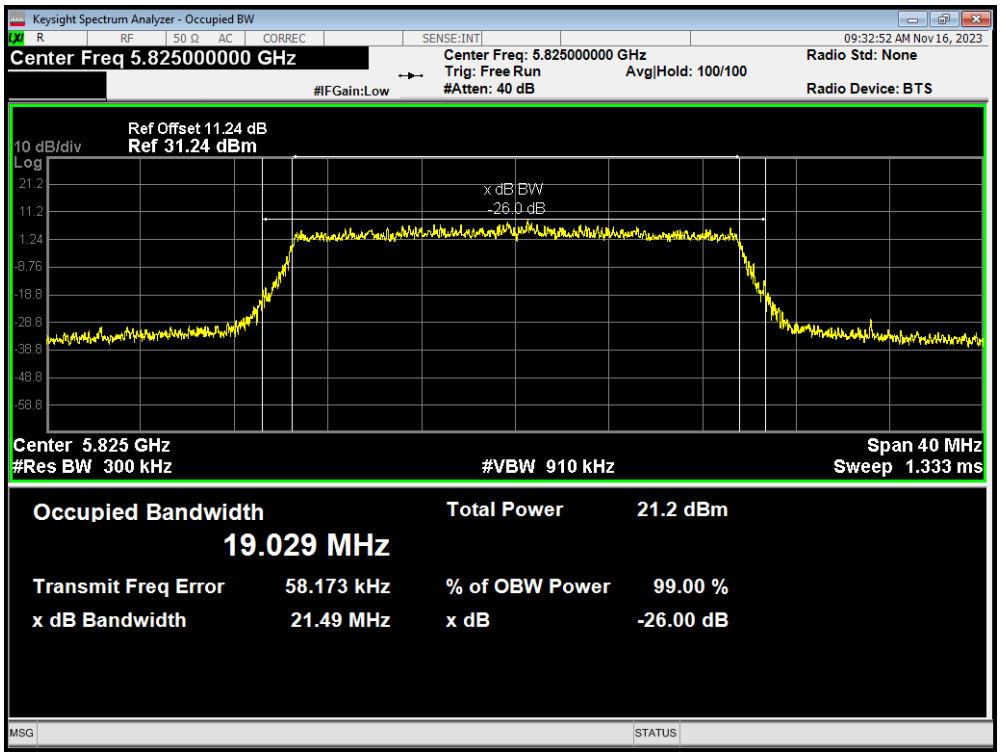
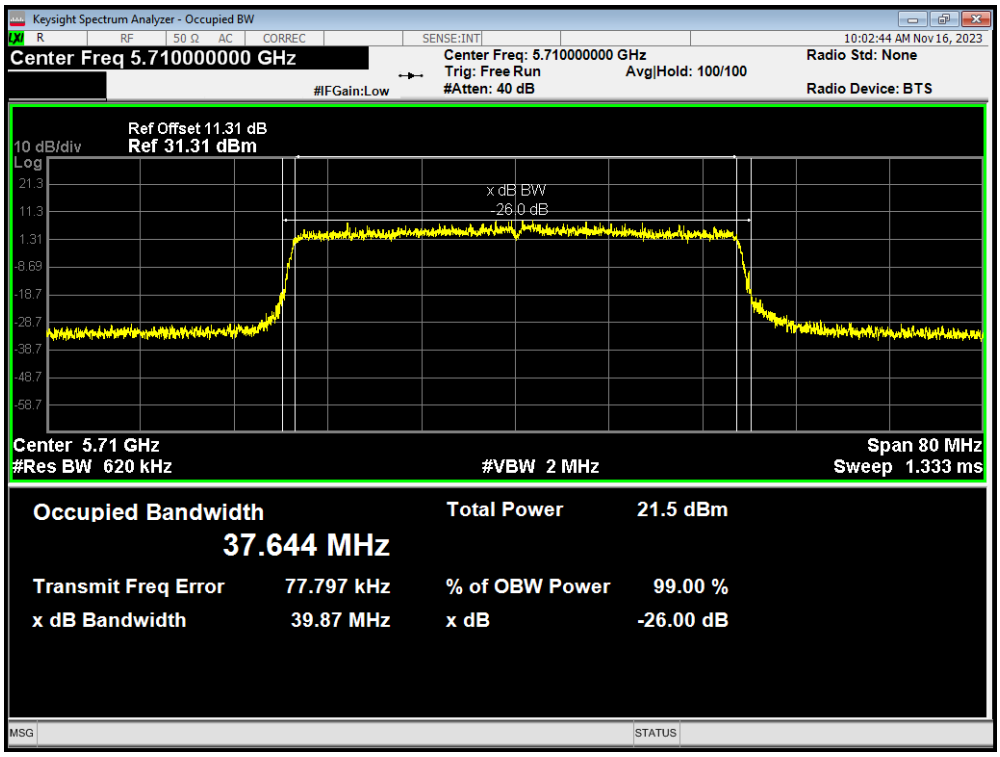
OBW 802.11ax(HE20) 5825MHz



OBW 802.11ax(HE40) 5710MHz



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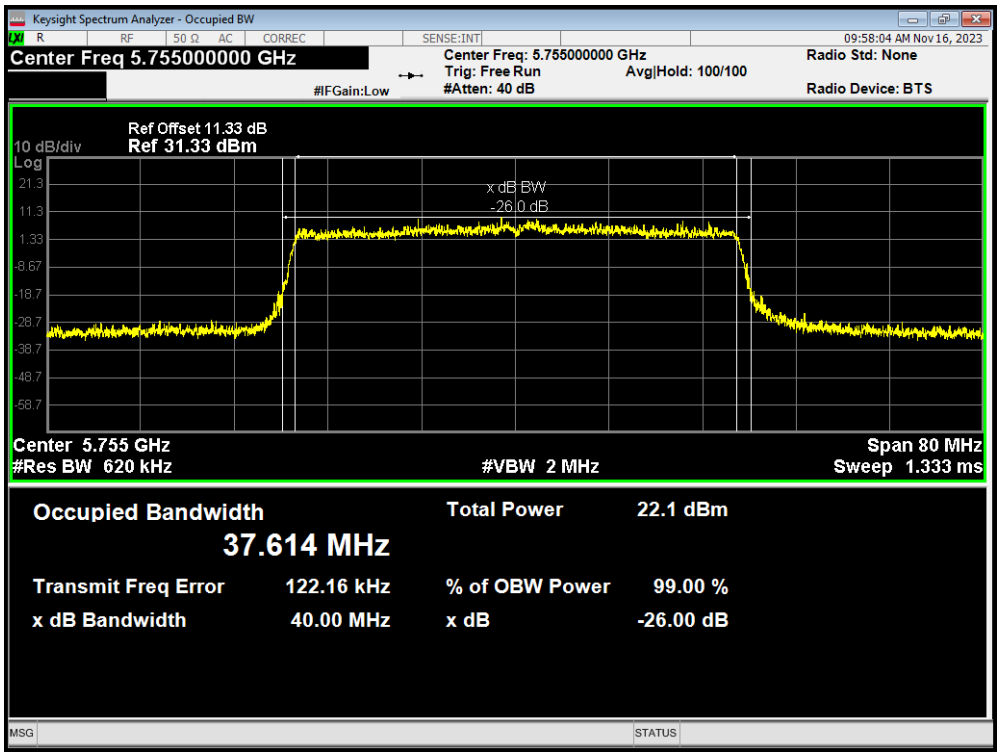
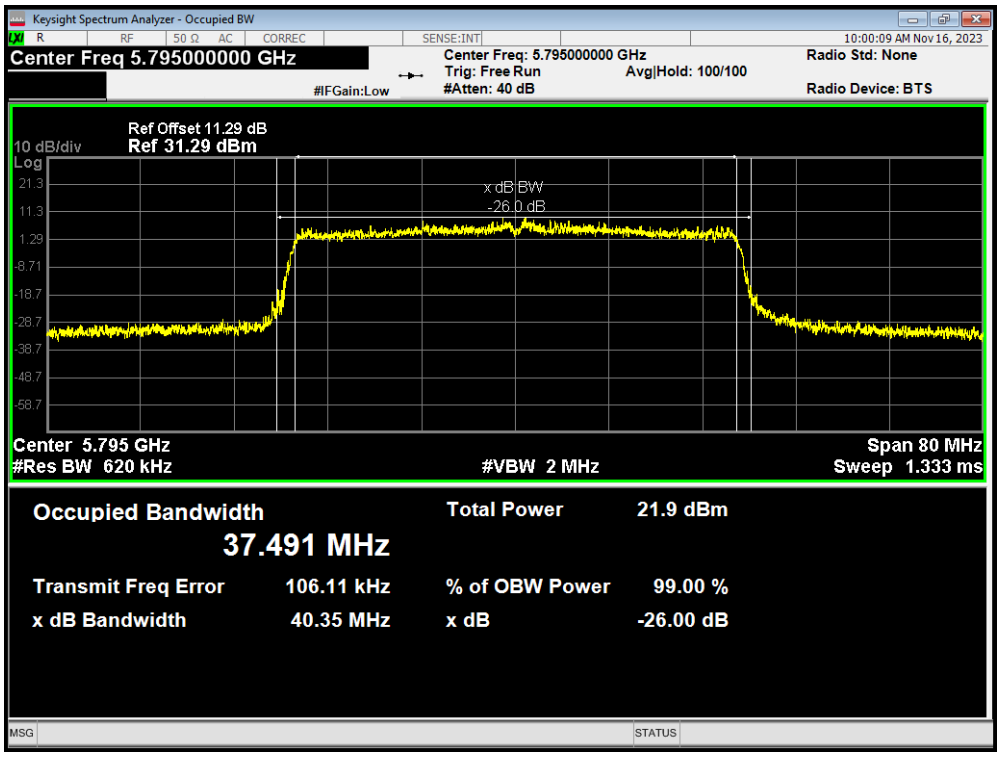
OBW 802.11ax(HE40) 5755MHz



OBW 802.11ax(HE40) 5795MHz



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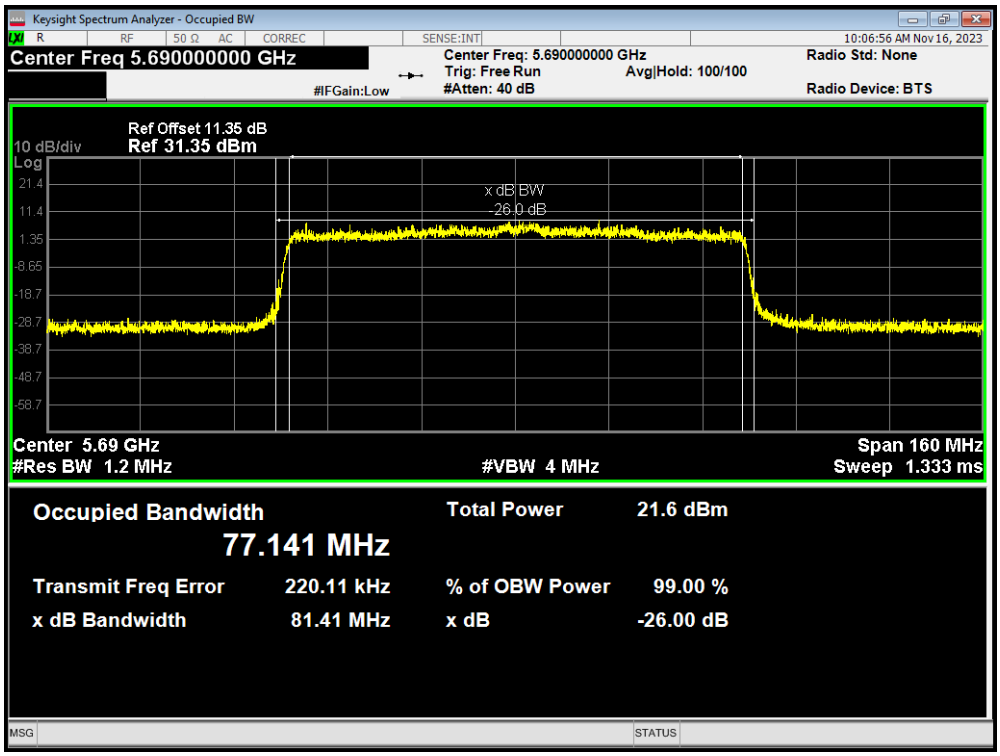
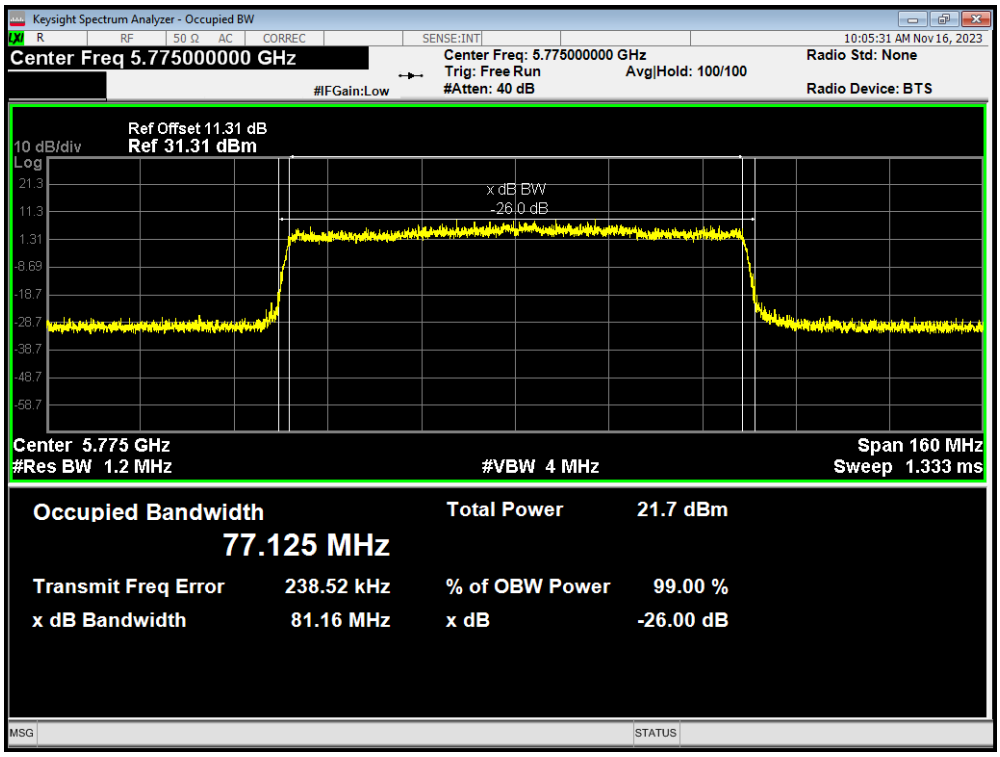
OBW 802.11ax(HE80) 5690MHz



OBW 802.11ax(HE80) 5775MHz



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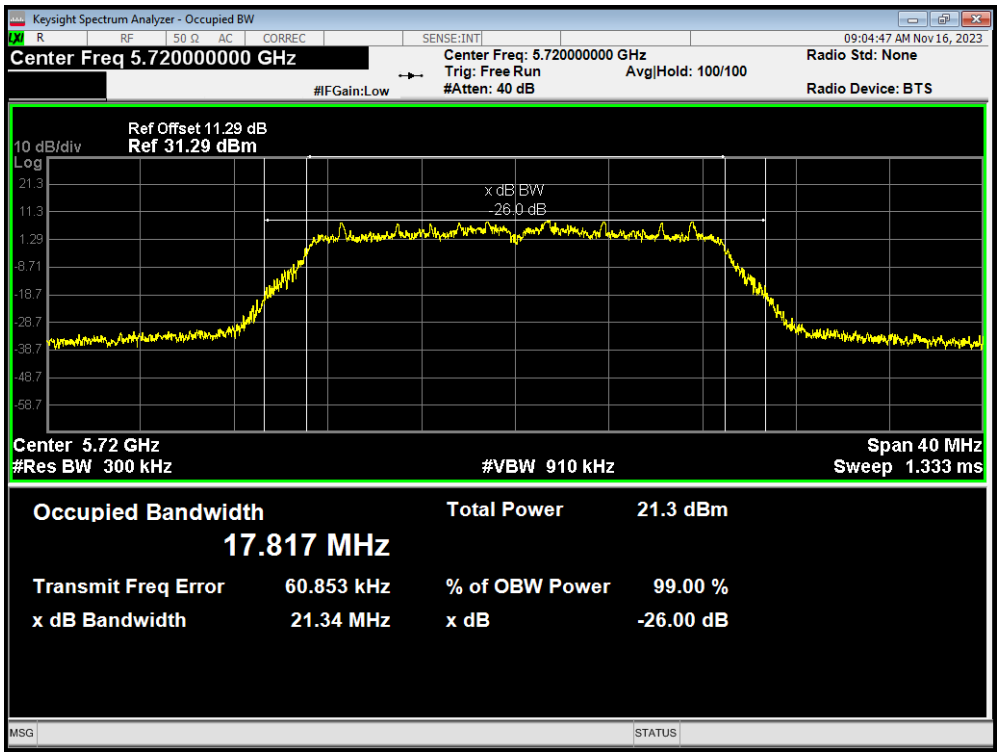
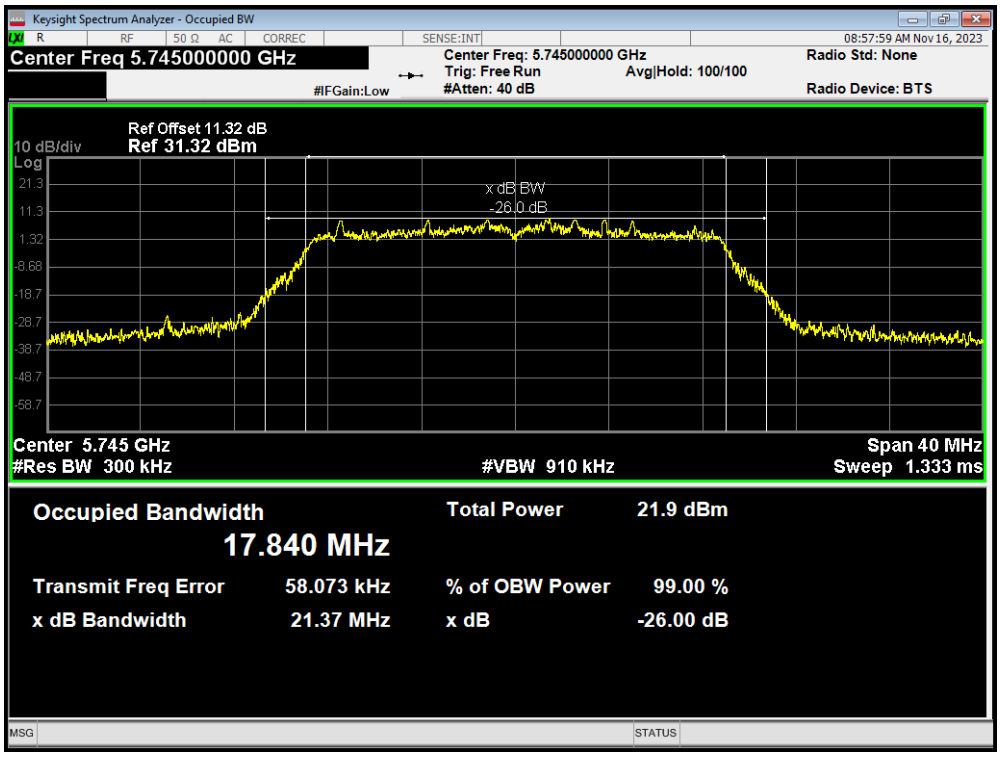
OBW 802.11n(HT20) 5720MHz



OBW 802.11n(HT20) 5745MHz



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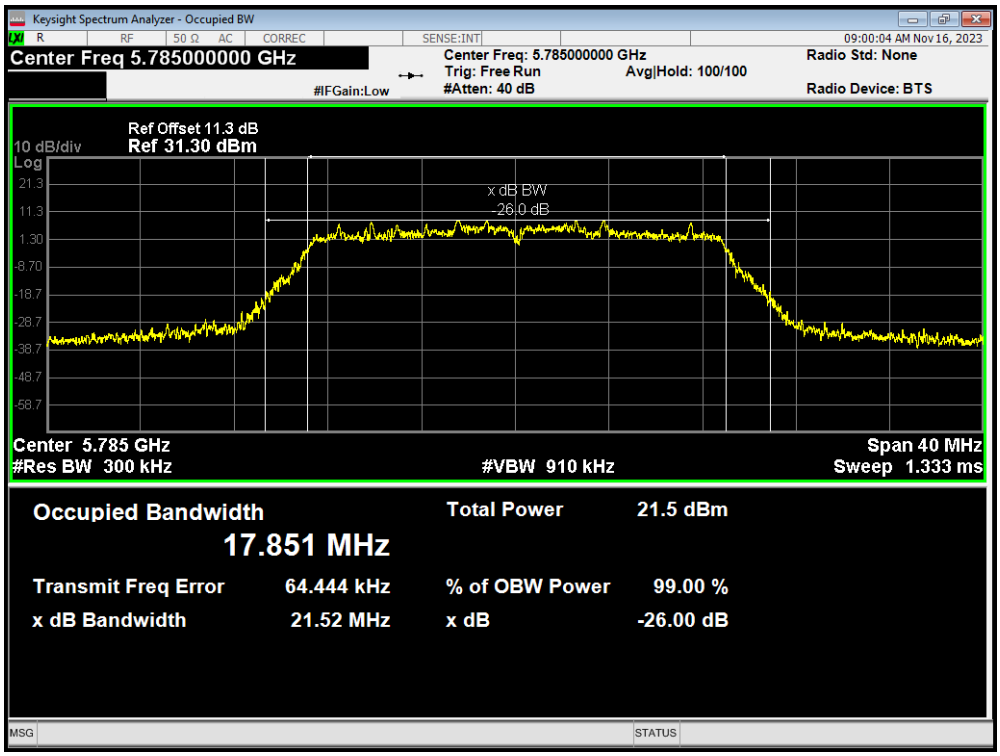
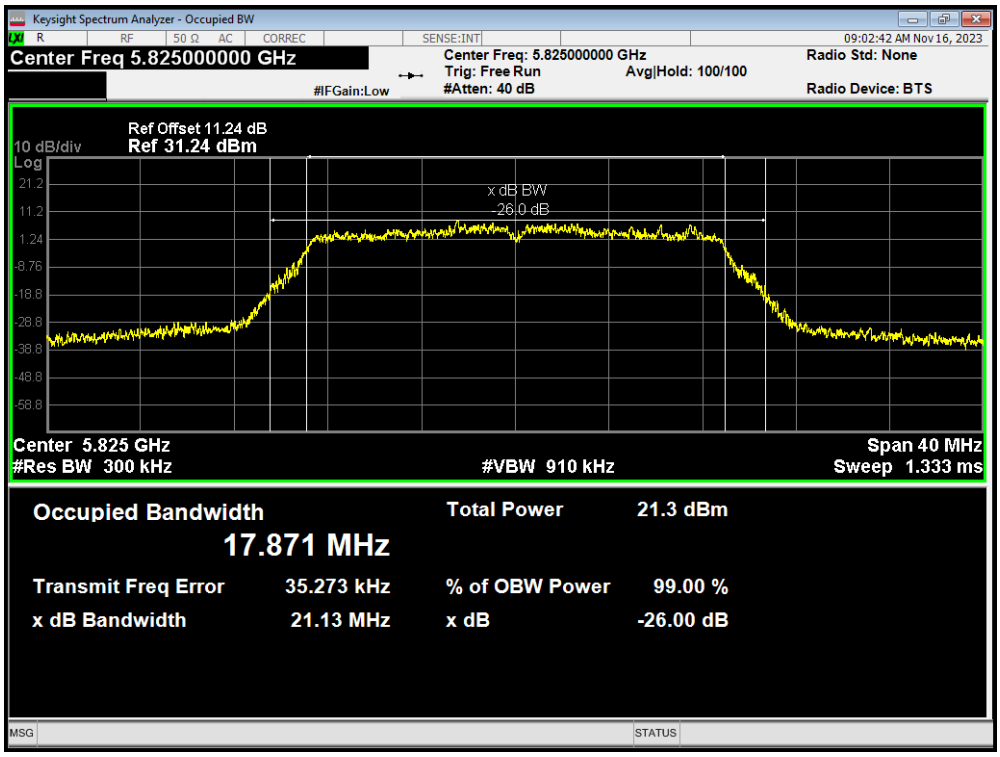
OBW 802.11n(HT20) 5785MHz



OBW 802.11n(HT20) 5825MHz



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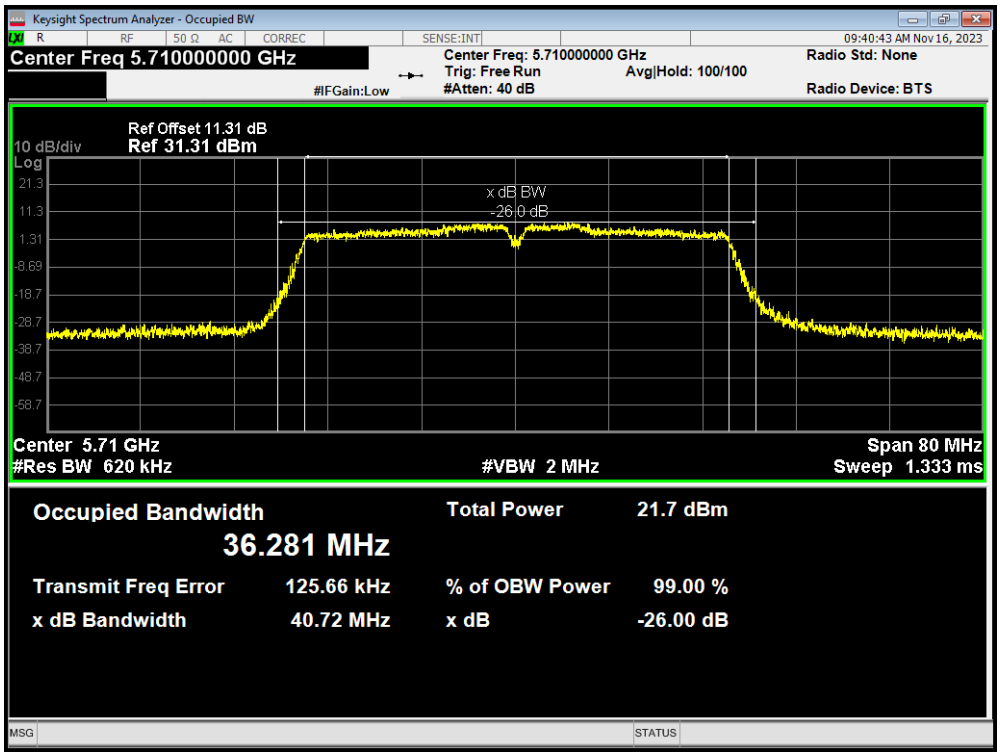
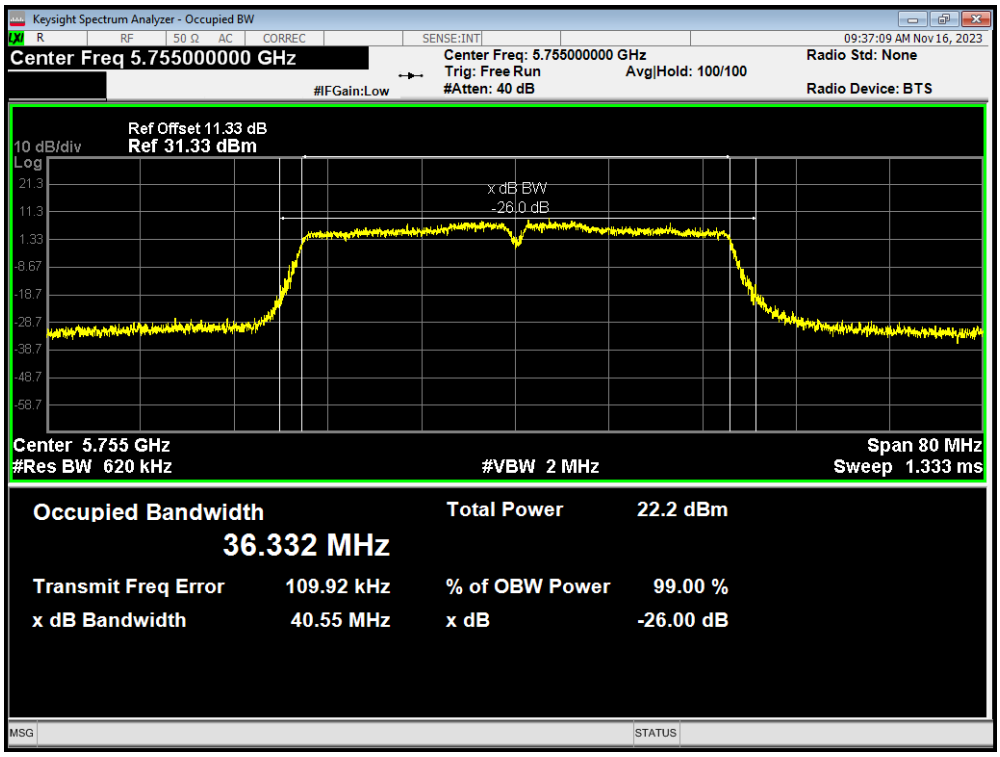
OBW 802.11n(HT40) 5710MHz



OBW 802.11n(HT40) 5755MHz



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