
FCC Test Report

Report No.: AGC10232230103FE06

FCC ID : 2AEAN-RCDUO
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Integrated Audio Production Studio
BRAND NAME : RØDE
MODEL NAME : RODECASTER DUO
APPLICANT : Rode Microphones
DATE OF ISSUE : Feb. 16, 2023
STANDARD(S) : FCC Part 15.407
TEST PROCEDURE(S) : KDB 789033 D02 v02r01
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Feb. 16, 2023	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Rode Microphones
Address	107 Carnarvon Street, Silverwater 2128, Australia
Manufacturer	Rode Microphones
Address	107 Carnarvon Street, Silverwater 2128, Australia
Factory	Rode Microphones
Address	107 Carnarvon Street, Silverwater 2128, Australia
Product Designation	Integrated Audio Production Studio
Brand Name	RØDE
Test Model	RODECASTER DUO
Date of receipt of test item	Jan. 04, 2023
Date of test	Jan. 05, 2023 to Feb. 16, 2023
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By



Alan Duan
(Project Engineer)

Feb. 16, 2023

Reviewed By



Calvin Liu
(Reviewer)

Feb. 16, 2023

Approved By



Max Zhang
(Authorized Officer)

Feb. 16, 2023

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Integrated Audio Production Studio". It is designed by way of utilizing the OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Equipment Type	<input type="checkbox"/> Outdoor access points <input type="checkbox"/> Fixed P2P access points	<input type="checkbox"/> Indoor access points <input checked="" type="checkbox"/> Client devices
Operation Frequency	<input checked="" type="checkbox"/> U-NII 1:5150MHz~5250MHz <input checked="" type="checkbox"/> U-NII 2C:5470MHz~5725MHz	<input checked="" type="checkbox"/> U-NII 2A: 5250MHz~5350MHz <input checked="" type="checkbox"/> U-NII 3: 5725MHz~5850MHz
DFS Design Type	<input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection	<input checked="" type="checkbox"/> Slave without radar detection
TPC Function	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Test Frequency Range:	For 802.11a/n/ac-HT20-VHT20: 5150~5250MHz, 5250~5350MHz, 5470~5725MHz, 5745~5825MHz For 802.11n/ac-HT40: 5190~5230MHz, 5270~5310MHz, 5510~5710MHz, 5755~5795MHz For 802.11ac-HT80: 5210MHz, 5290MHz, 5530~5610MHz, 5775MHz	
Output Power	IEEE 802.11a:16.79dBm; IEEE 802.11n-HT20:15.64dBm; IEEE 802.11n-HT40:14.77dBm; IEEE 802.11ac-VHT20:15.32dBm; IEEE 802.11ac-VHT40:14.89dBm; IEEE 802.11ac-VHT80:12.63dBm	
Modulation	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM, OFDM	
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 400Mbps	
Number of channels	7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 21 channels of U-NII-2C Band 8 channels of U-NII-3 Band	
Hardware Version	V1.0	
Software Version	V1.0	
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	-1.81dBi	
Power Supply	DC 9V, 3A	

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2.2. TABLE OF CARRIER FREQUENCIES

For 5180~5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	--	--

For 5260~5320MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
58	5290 MHz	--	--

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For 5500~5720MHz:**12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):**

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz
138	5690 MHz	--	--

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For 5745~5825MHz:**5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):**

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz	--	--

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
155	5775 MHz	--	--

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2.3. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AEAN-RCDUO** filing to comply with the FCC Part 15 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013).

Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.407 rules KDB 789033 D02

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \text{ %}$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \text{ %}$

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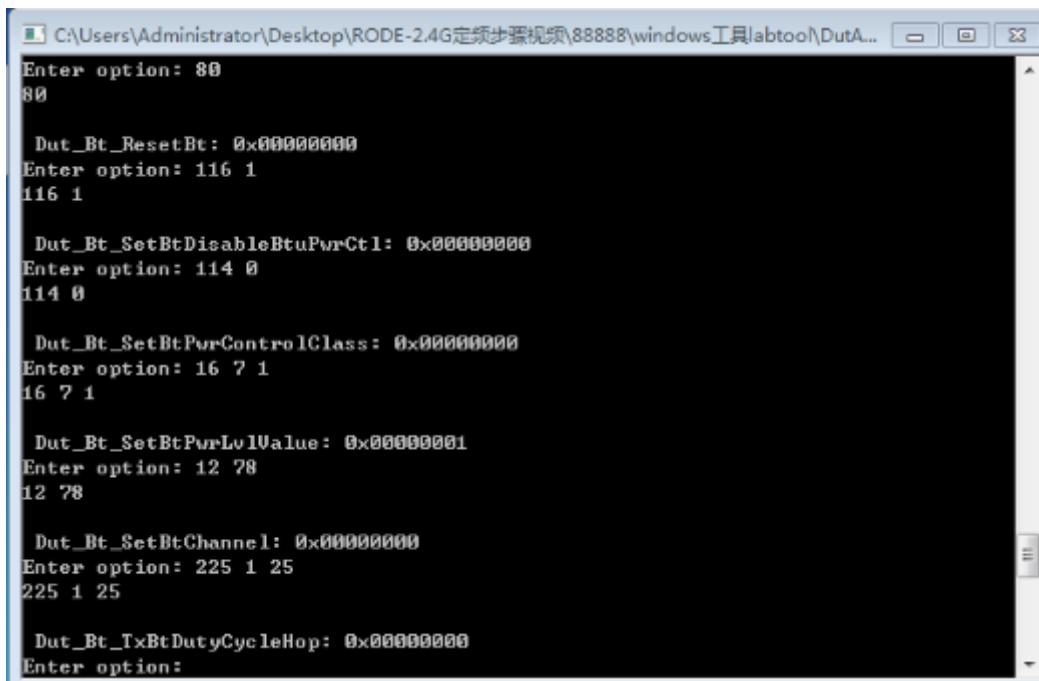
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4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate (Mbps)
802.11a/n/ac20	36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 149, 153, 157, 161, 165	36, 40, 48, 52, 60, 64, 100, 120, 140, 149, 157, 165	OFDM	6Mbps/MCS0
802.11n/ac40	38, 46, 54, 62, 102, 110, 118, 126, 134, 151, 159;	38, 46, 54, 62, 102, 118, 134, 151, 159	OFDM	MCS0
802.11ac80	42, 58, 106, 122, 155	42, 58, 106, 122, 155	OFDM	MCS0

Note:

1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle>or equal 98%.
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.

Software Setting

```
C:\Users\Administrator\Desktop\RODE-2.4G定频步骤视频\88888\windows\工具\labtool\ DutA...
Enter option: 80
80

Dut_Bt_ResetBt: 0x00000000
Enter option: 116 1
116 1

Dut_Bt_SetBtDisableBtuPwrCtl: 0x00000000
Enter option: 114 0
114 0

Dut_Bt_SetBtPwrControlClass: 0x00000000
Enter option: 16 7 1
16 7 1

Dut_Bt_SetBtPwrLvlValue: 0x00000001
Enter option: 12 78
12 78

Dut_Bt_SetBtChannel: 0x00000000
Enter option: 225 1 25
225 1 25

Dut_Bt_TxBtDutyCycleHop: 0x00000000
Enter option:
```

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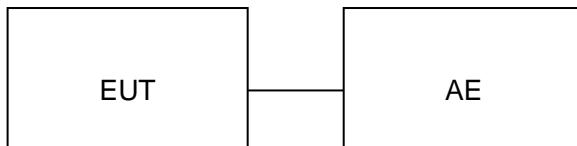
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Integrated Audio Production Studio	RODECASTER DUO	2AEAN-RCDUO	EUT
2	Microphone	dh6	USB-TTL	AE
3	Black wired headset	HF130	--	AE
4	Bluetooth speaker	SRS-XB01	DC5V/0.5A	AE
5	Adapter	YDS-PD030	Input: AC 100-240V 1.5A 50/60Hz; Output: DC 5V3A/9V3A/12V2.5A/ 15V2A/20V1.5A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.407	6dB Bandwidth	Compliant
§15.407	Emission Bandwidth	Compliant
§15.407	Maximum conducted output power	Compliant
§15.407	Conducted Spurious Emission	Compliant
§15.407	Maximum Conducted Output Power Density	Compliant
§15.209	Radiated Emission	Compliant
§15.407	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Mar. 28, 2022	Mar. 27, 2023
LISN	R&S	ESH2-Z5	100086	Jun. 08, 2022	Jun. 07, 2023
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Mar. 28, 2022	Mar. 27, 2023
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Signal Analyzer	Agilent	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
EXA Signal Analyzer	KEYSIGHT	N9020B	MY56101792	Aug, 04, 2022	Aug, 03, 2023
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	768	Oct. 31, 2021	Oct. 30, 2023
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Double-Ridged Waveguide Horn	ETS	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 05, 2023	Jan. 04, 2025
Test Software	Tonscend	JS32-RE	Ver.2.5	N/A	N/A

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

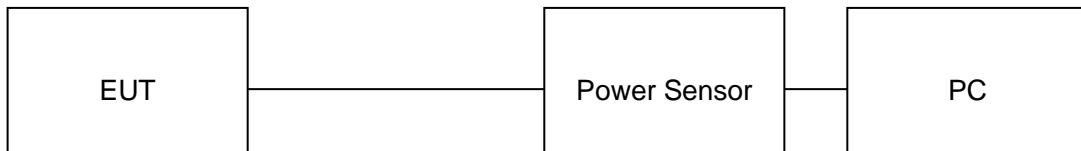
For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

Note : The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

7.2. TEST SET-UP

AVERAGE POWER SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power for band 5.15-5.25 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	16.79	24	Pass
	5200	15.94	24	Pass
	5240	16.38	24	Pass
802.11n20	5180	15.64	24	Pass
	5200	15.46	24	Pass
	5240	15.13	24	Pass
802.11n40	5190	14.47	24	Pass
	5230	14.69	24	Pass
802.11ac20	5180	14.92	24	Pass
	5200	14.53	24	Pass
	5240	15.32	24	Pass
802.11ac40	5190	14.89	24	Pass
	5230	14.62	24	Pass
802.11ac80	5210	11.22	24	Pass

Test Data of Conducted Output Power for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5260	16.33	24	Pass
	5300	15.70	24	Pass
	5320	15.74	24	Pass
802.11n20	5260	15.07	24	Pass
	5300	14.46	24	Pass
	5320	14.90	24	Pass
802.11n40	5270	14.77	24	Pass
	5310	14.25	24	Pass
802.11ac20	5260	14.85	24	Pass
	5300	14.32	24	Pass
	5320	14.44	24	Pass
802.11ac40	5270	14.46	24	Pass
	5310	13.79	24	Pass
802.11ac80	5290	12.63	24	Pass

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Test Data of Conducted Output Power for band 5.47-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5500	16.22	24	Pass
	5600	16.01	24	Pass
	5700	13.74	24	Pass
802.11n20	5500	13.03	24	Pass
	5600	12.76	24	Pass
	5700	13.53	24	Pass
802.11n40	5510	12.49	24	Pass
	5590	12.18	24	Pass
	5670	13.45	24	Pass
802.11ac20	5500	11.99	24	Pass
	5600	11.67	24	Pass
	5700	13.55	24	Pass
802.11ac40	5510	12.39	24	Pass
	5590	12.22	24	Pass
	5670	13.33	24	Pass
802.11ac80	5530	10.81	24	Pass
	5610	9.94	24	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	9.54	30	Pass
	5785	9.07	30	Pass
	5825	7.55	30	Pass
802.11n20	5745	9.39	30	Pass
	5785	8.36	30	Pass
	5825	7.49	30	Pass
802.11n40	5755	9.38	30	Pass
	5795	8.13	30	Pass
802.11ac20	5745	9.40	30	Pass
	5785	8.20	30	Pass
	5825	7.52	30	Pass
802.11ac40	5755	9.35	30	Pass
	5795	8.23	30	Pass
802.11ac80	5775	9.33	30	Pass

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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

-6dB bandwidth (DTS bandwidth):

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 100kHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.

99% occupied bandwidth:

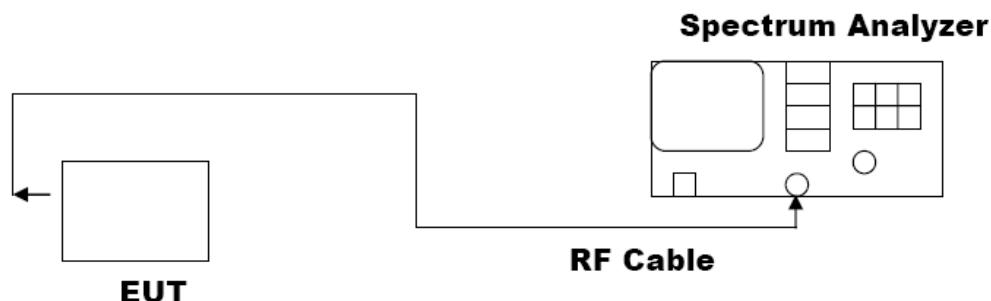
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

-26dB Bandwidth:

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW $>$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. 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%.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.478	22.23	N/A	Pass
	5200	16.493	24.30	N/A	Pass
	5240	16.640	24.80	N/A	Pass
802.11n20	5180	17.619	23.36	N/A	Pass
	5200	17.613	21.57	N/A	Pass
	5240	17.701	25.04	N/A	Pass
802.11n40	5190	36.078	53.72	N/A	Pass
	5230	36.117	56.01	N/A	Pass
802.11ac20	5180	17.627	20.57	N/A	Pass
	5200	17.675	27.01	N/A	Pass
	5240	17.695	26.82	N/A	Pass
802.11ac40	5190	35.984	47.63	N/A	Pass
	5230	36.070	53.10	N/A	Pass
802.11ac80	5210	76.103	114.40	N/A	Pass

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5260	16.583	23.99	N/A	Pass
	5300	16.446	20.77	N/A	Pass
	5320	16.523	21.41	N/A	Pass
802.11n20	5260	17.647	23.33	N/A	Pass
	5300	17.627	23.26	N/A	Pass
	5320	17.604	20.70	N/A	Pass
802.11n40	5270	36.069	49.09	N/A	Pass
	5310	36.094	51.05	N/A	Pass
802.11ac20	5260	17.676	28.78	N/A	Pass
	5300	17.626	25.06	N/A	Pass
	5320	17.576	20.52	N/A	Pass
802.11ac40	5270	36.069	58.98	N/A	Pass
	5310	35.987	46.67	N/A	Pass
802.11ac80	5290	76.020	111.20	N/A	Pass

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Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5500	16.374	19.80	N/A	Pass
	5600	16.375	19.73	N/A	Pass
	5700	16.447	19.80	N/A	Pass
802.11n20	5500	17.515	19.99	N/A	Pass
	5600	17.526	19.74	N/A	Pass
	5700	16.386	19.52	N/A	Pass
802.11n40	5510	35.901	40.16	N/A	Pass
	5590	35.804	40.19	N/A	Pass
	5670	35.832	40.32	N/A	Pass
802.11ac20	5500	17.501	19.92	N/A	Pass
	5600	17.505	19.69	N/A	Pass
	5700	17.502	19.82	N/A	Pass
802.11ac40	5510	35.836	39.73	N/A	Pass
	5590	35.778	39.40	N/A	Pass
	5670	35.876	39.88	N/A	Pass
802.11ac80	5530	75.758	81.26	N/A	Pass
	5610	75.653	81.20	N/A	Pass

Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.436	14.41	0.5	Pass
	5785	16.438	13.77	0.5	Pass
	5825	16.408	14.76	0.5	Pass
802.11n20	5745	17.543	13.89	0.5	Pass
	5785	17.554	15.02	0.5	Pass
	5825	17.543	14.94	0.5	Pass
802.11n40	5755	35.973	33.84	0.5	Pass
	5795	35.955	34.95	0.5	Pass
802.11ac20	5745	17.531	15.08	0.5	Pass
	5785	17.548	14.18	0.5	Pass
	5825	17.540	15.06	0.5	Pass
802.11ac40	5755	35.907	33.83	0.5	Pass
	5795	35.872	35.08	0.5	Pass
802.11ac80	5775	75.874	75.75	0.5	Pass

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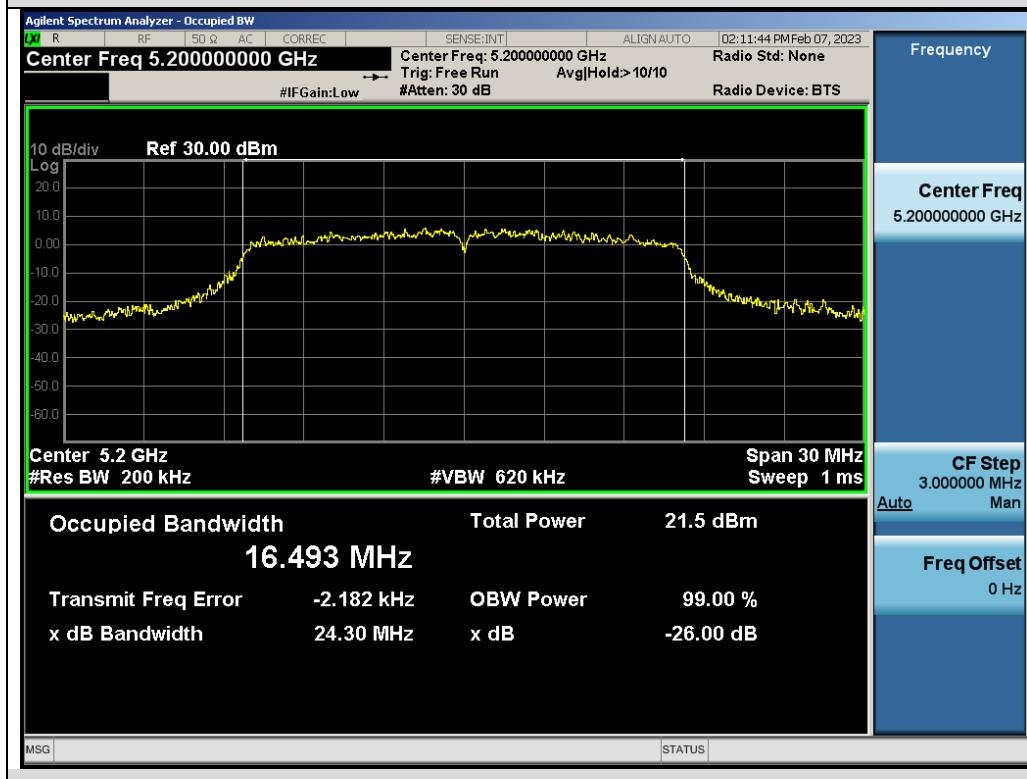
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_OBW



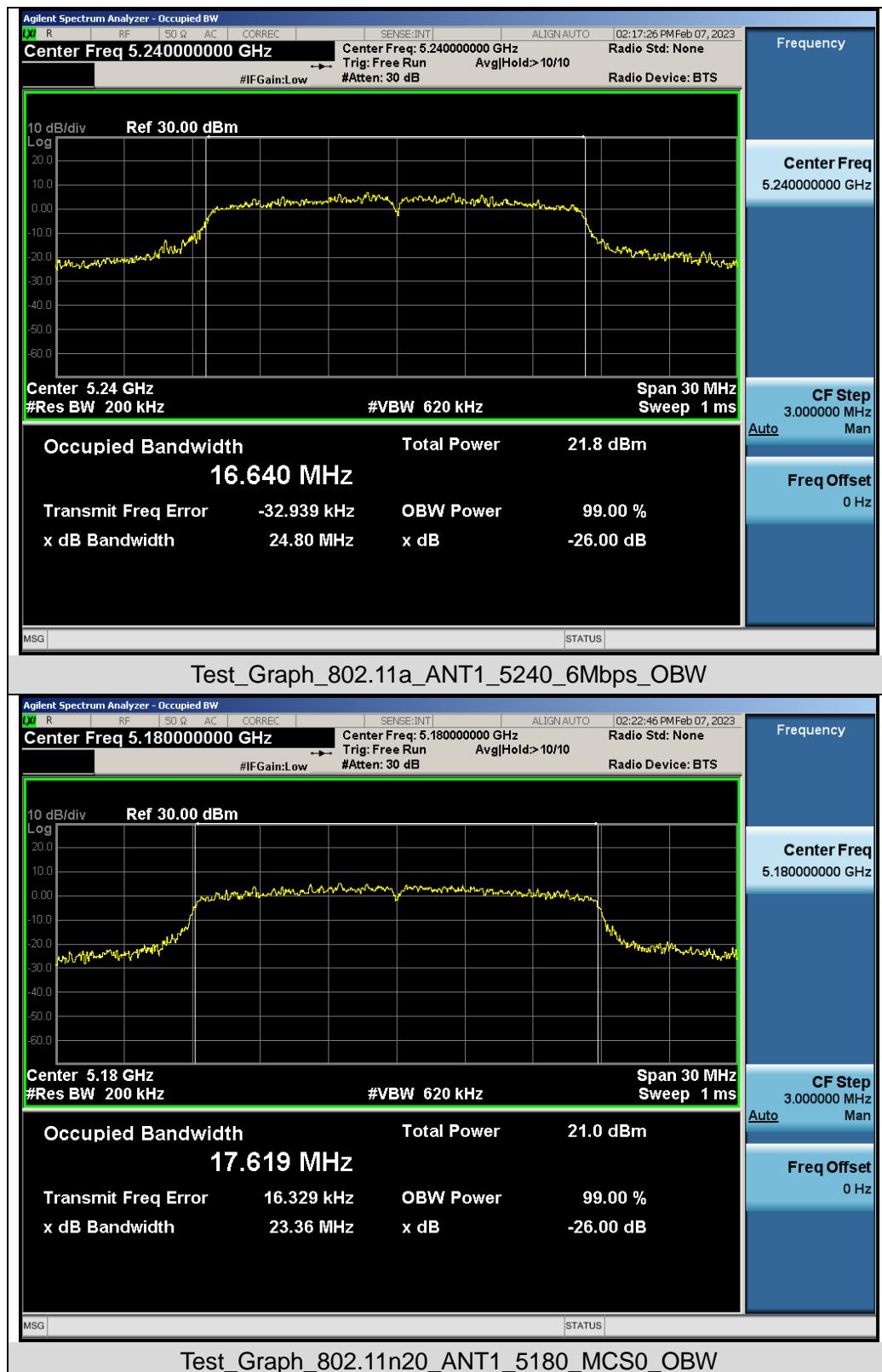
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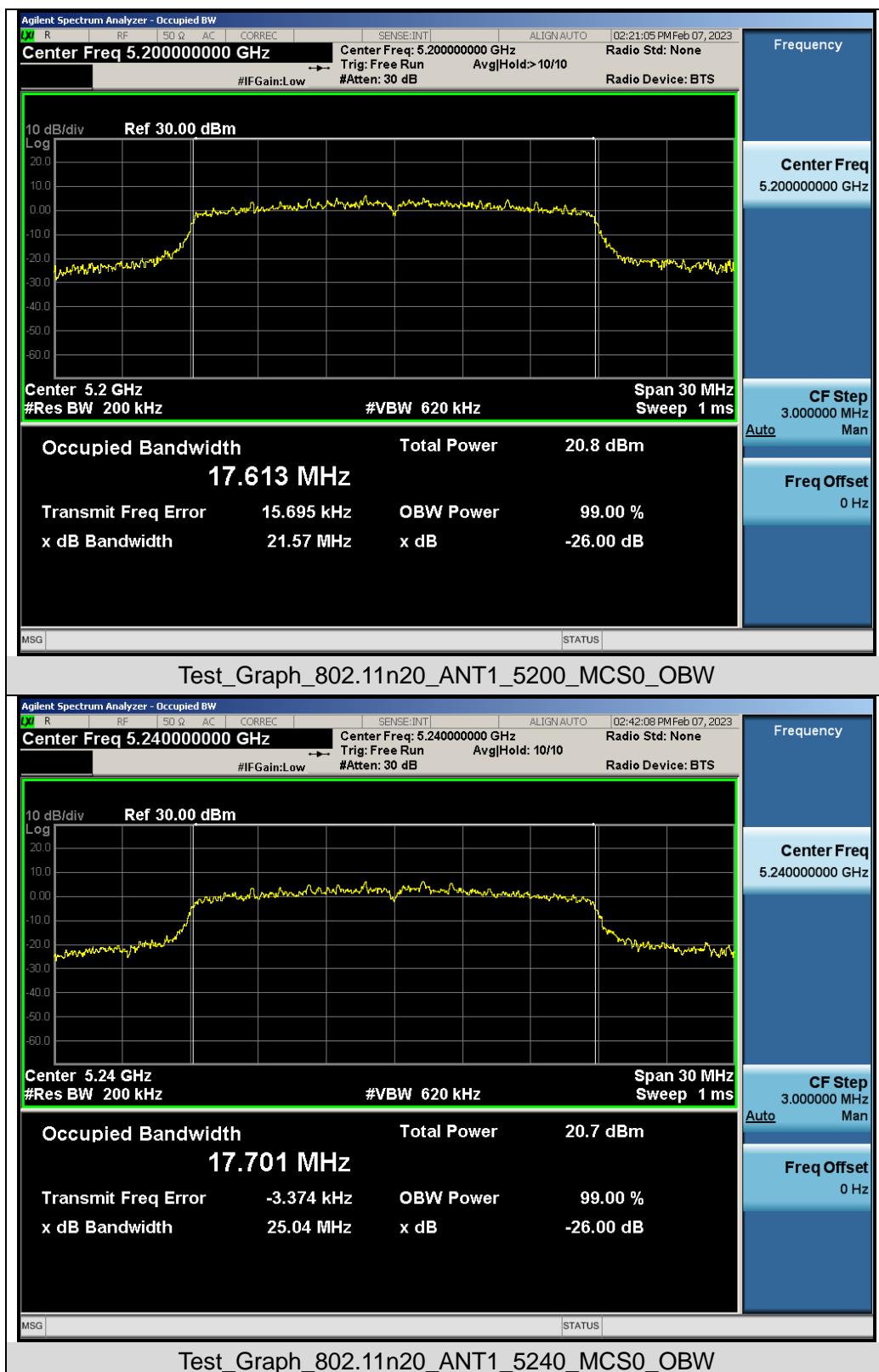


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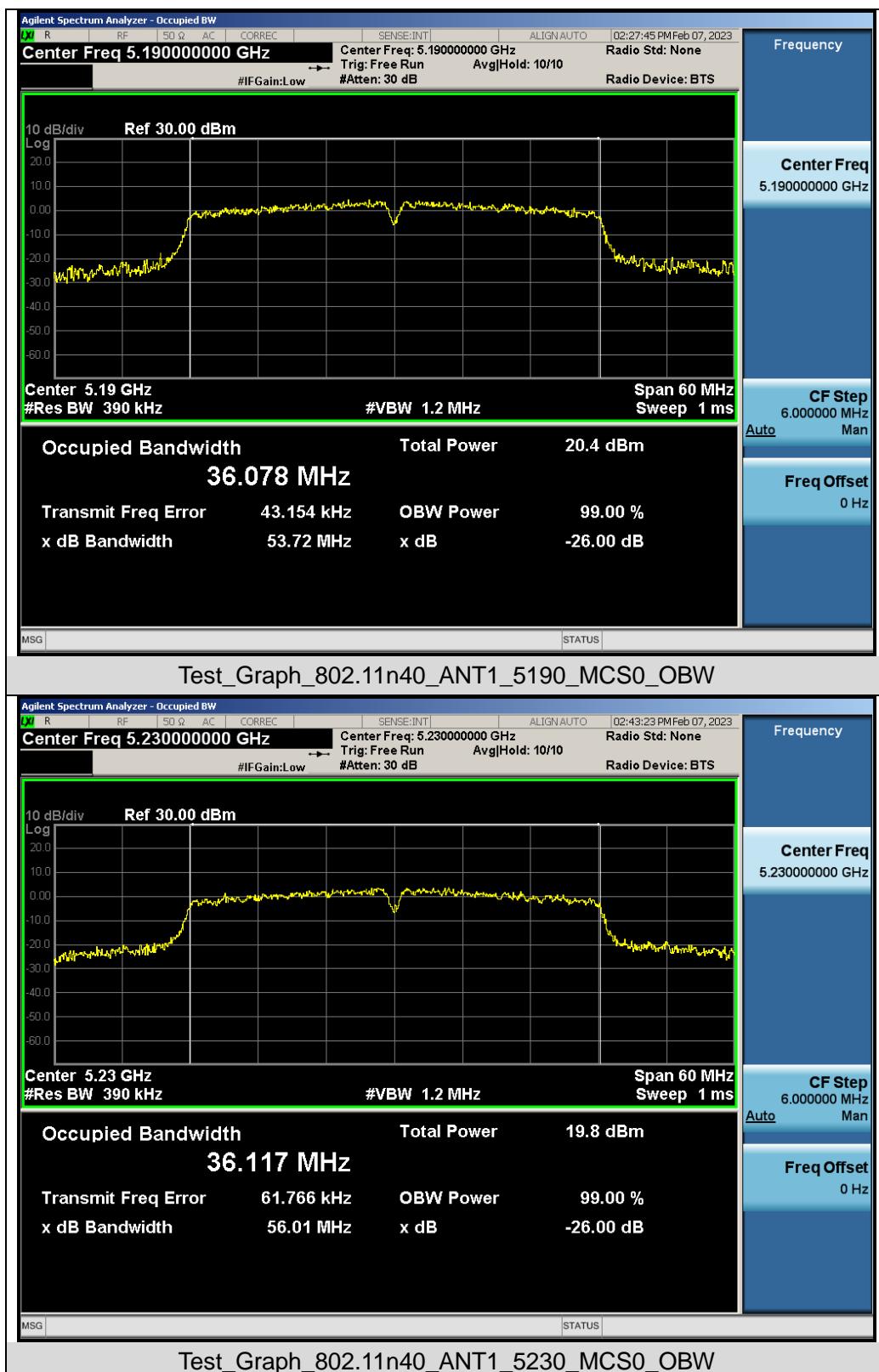


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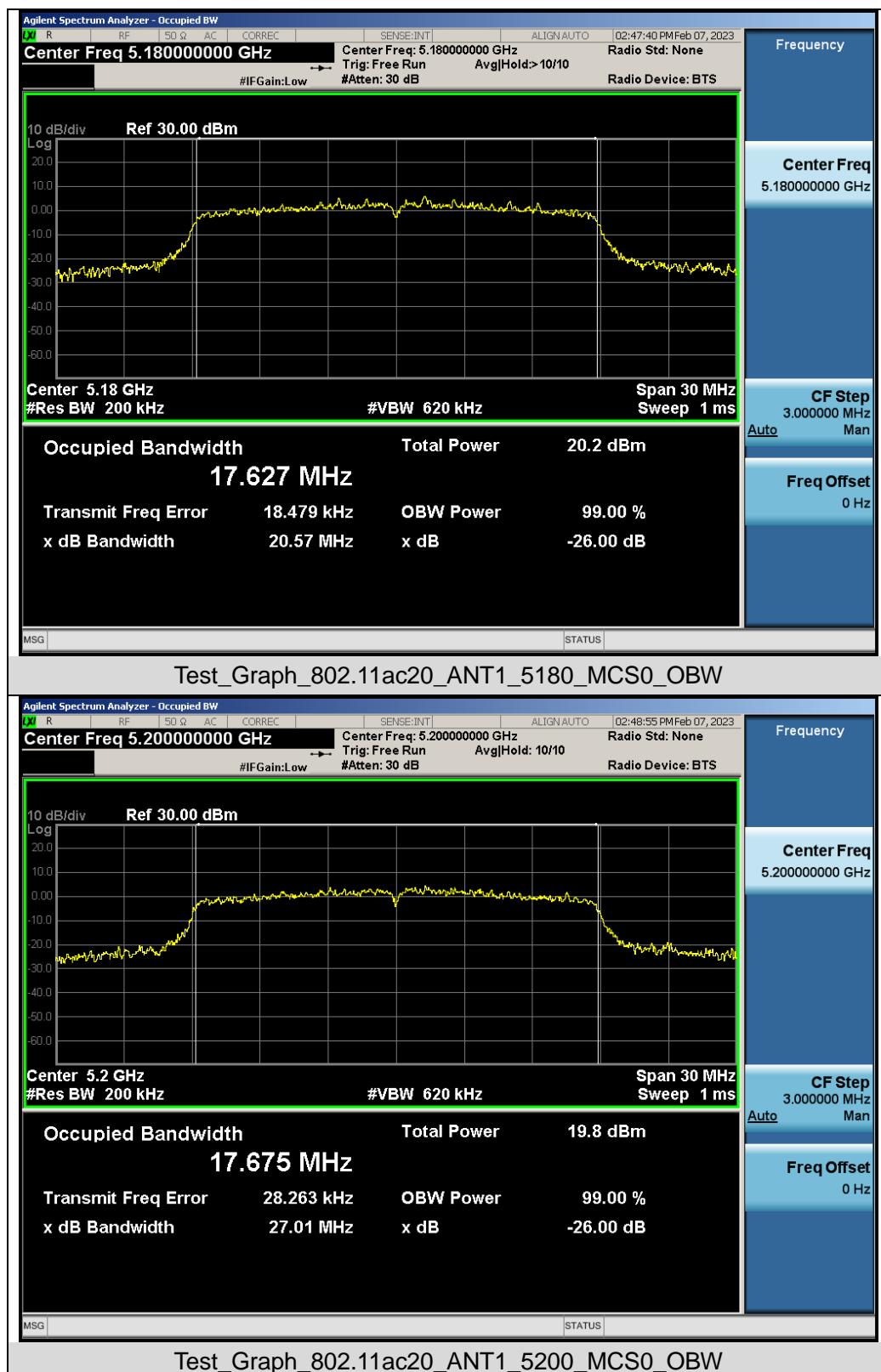


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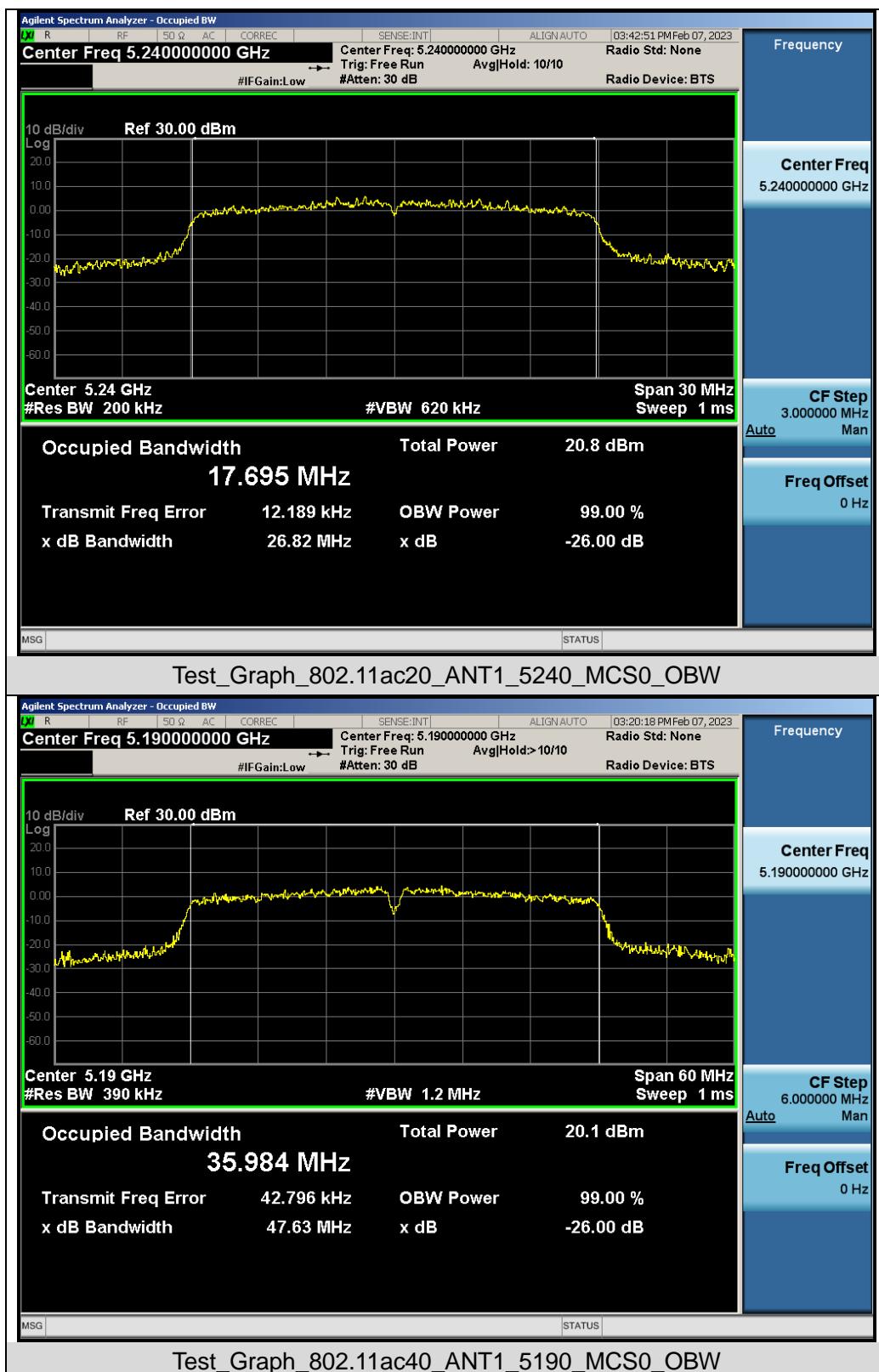


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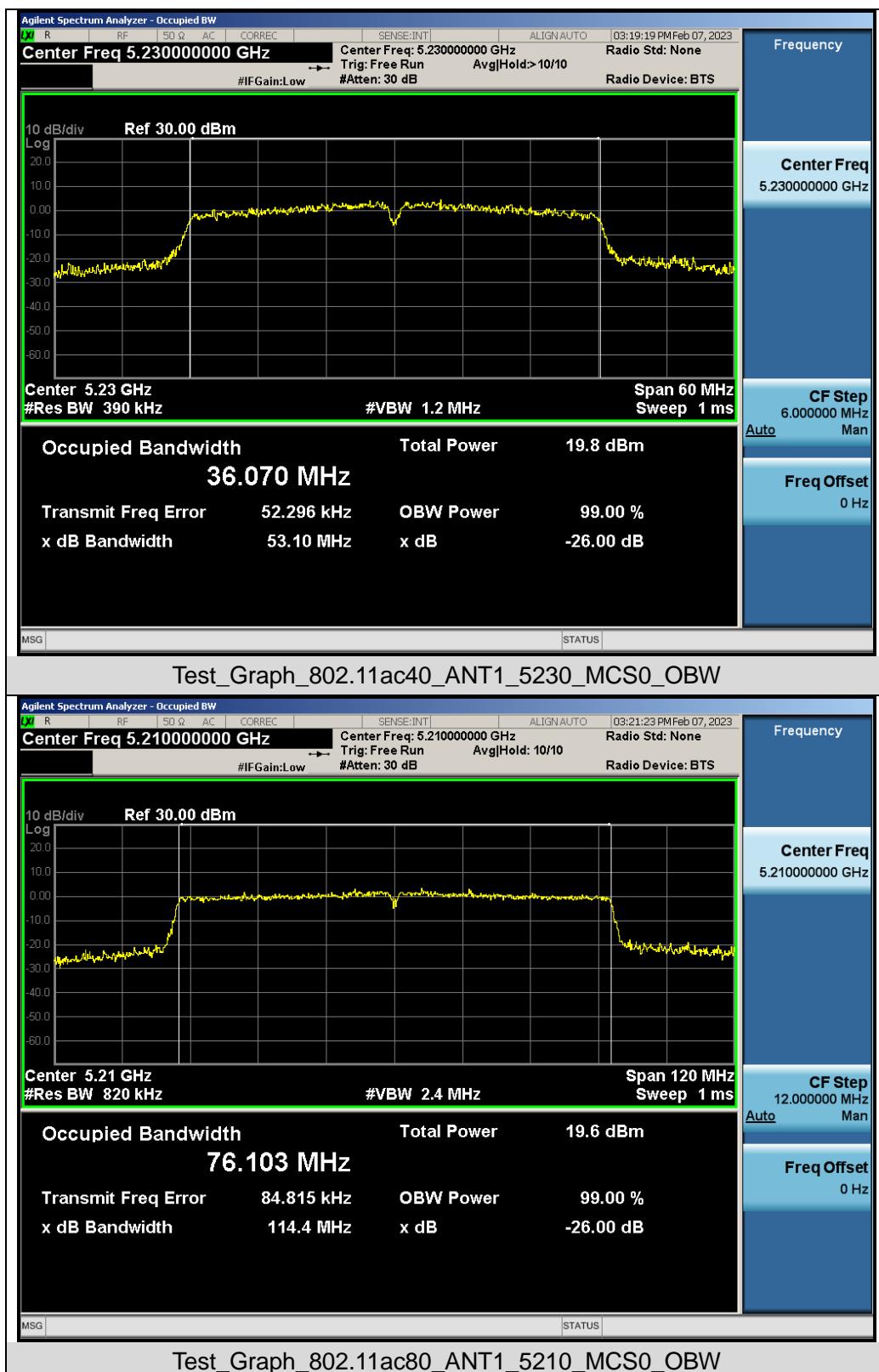


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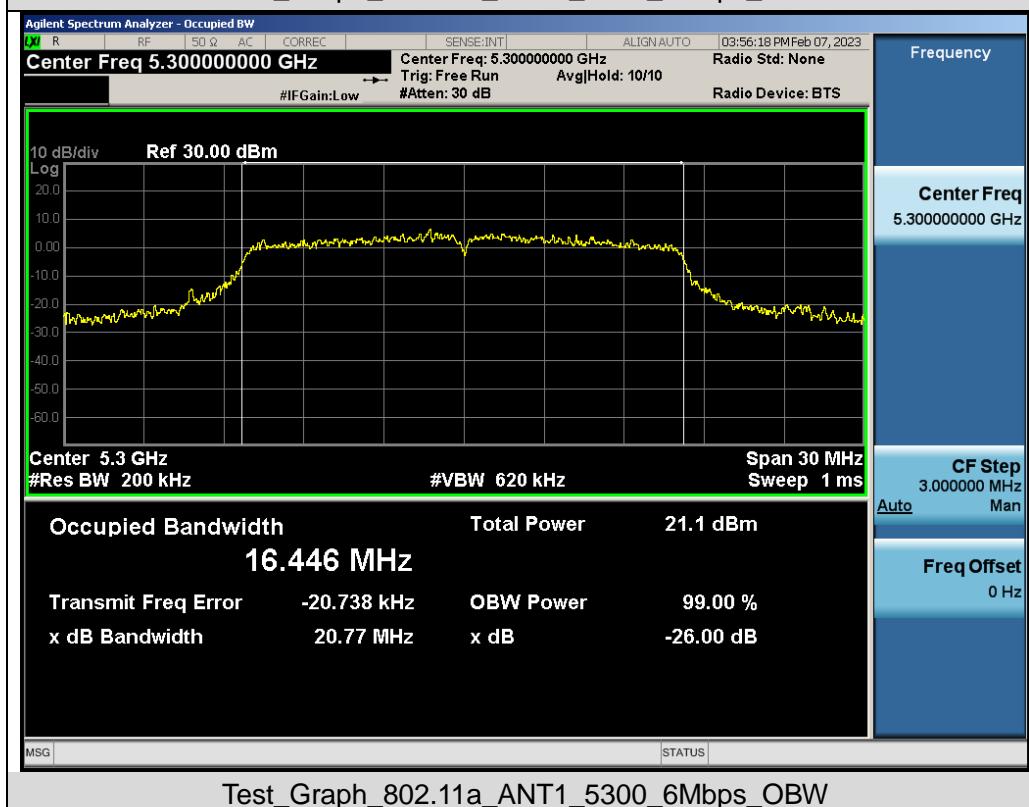
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Test Graphs of Occupied Bandwidth for band 5.25-5.35 GHz



Test_Graph_802.11a_ANT1_5260_6Mbps_OBW



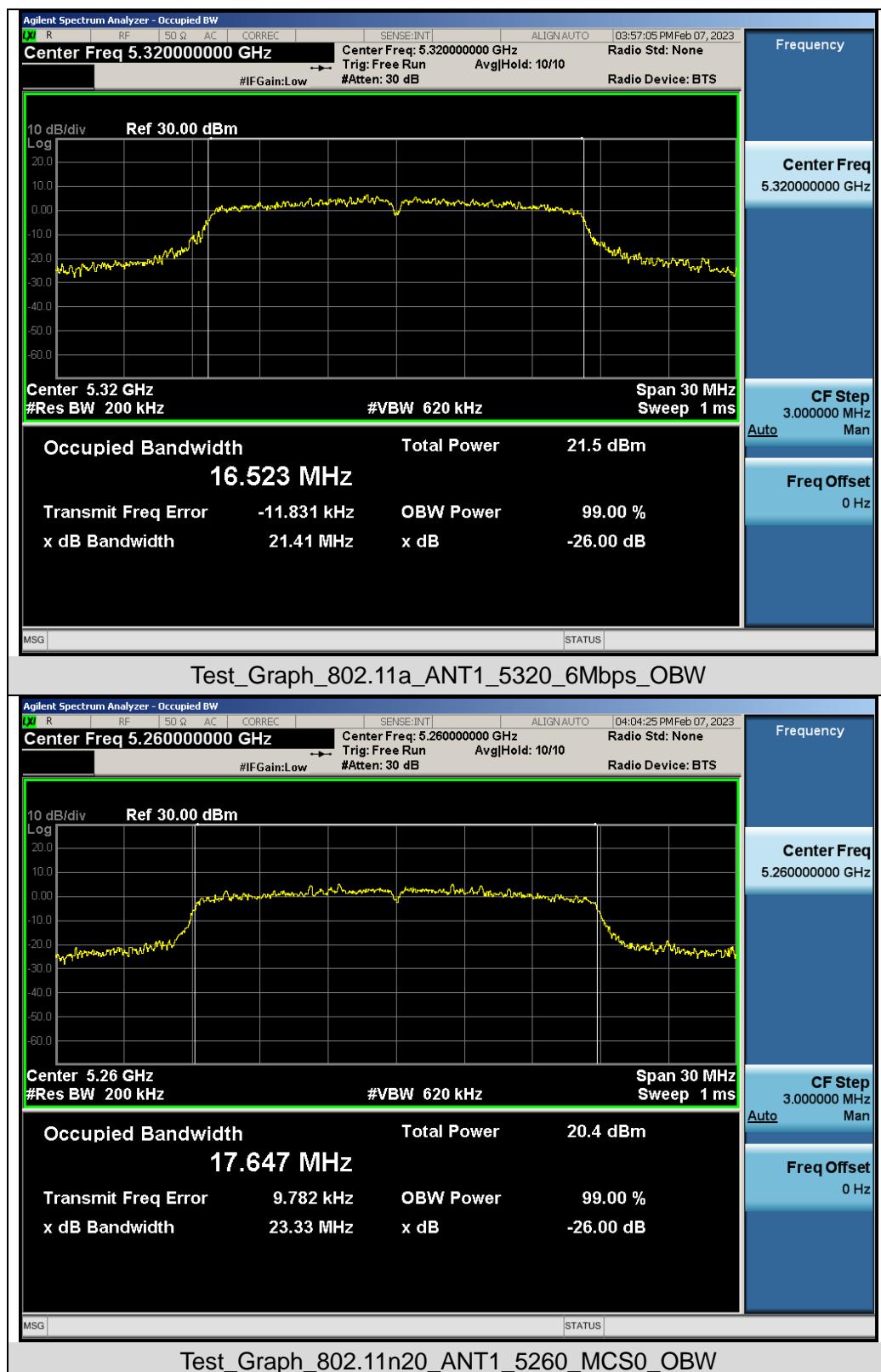
Test_Graph_802.11a_ANT1_5300_6Mbps_OBW

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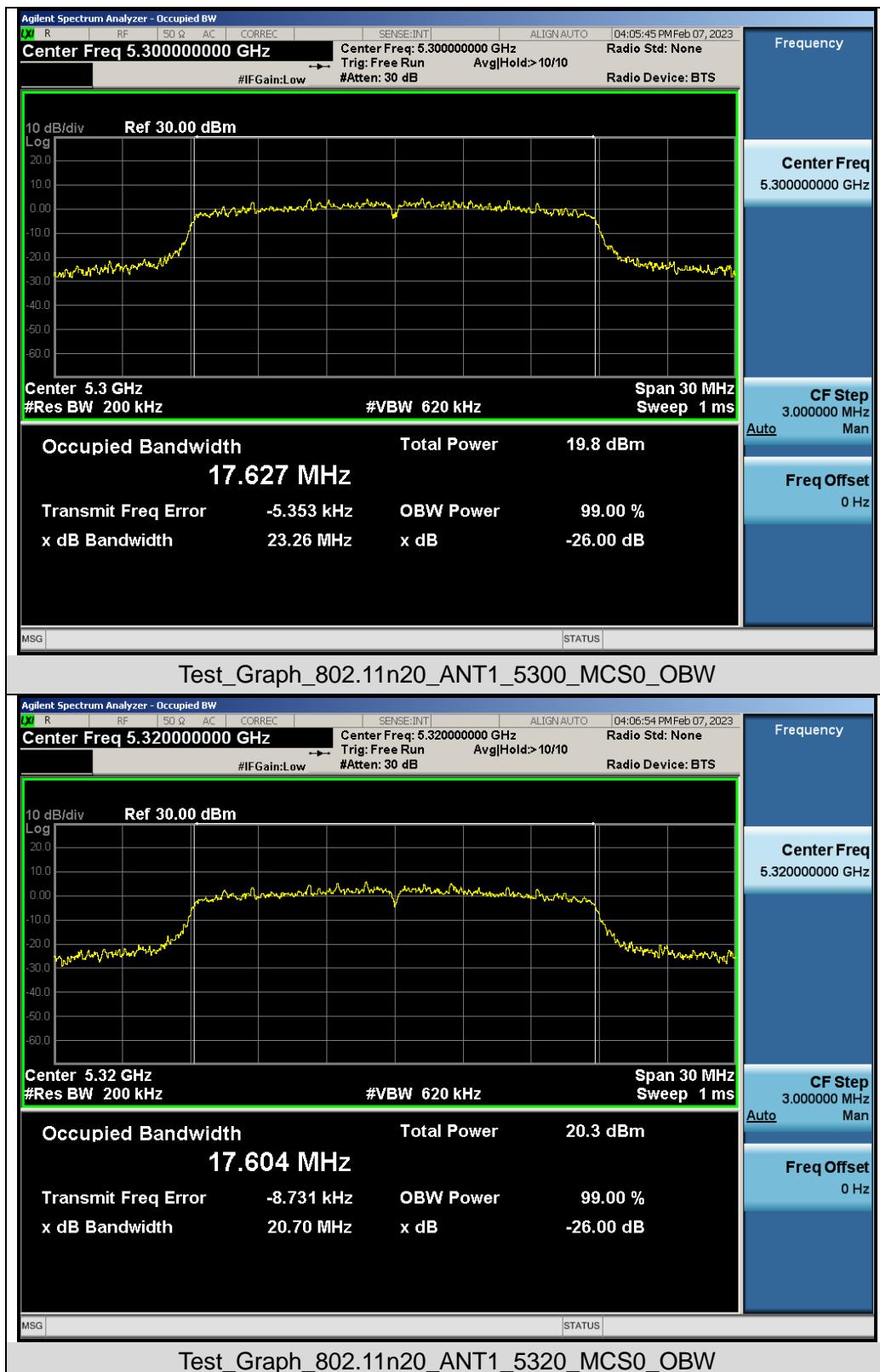


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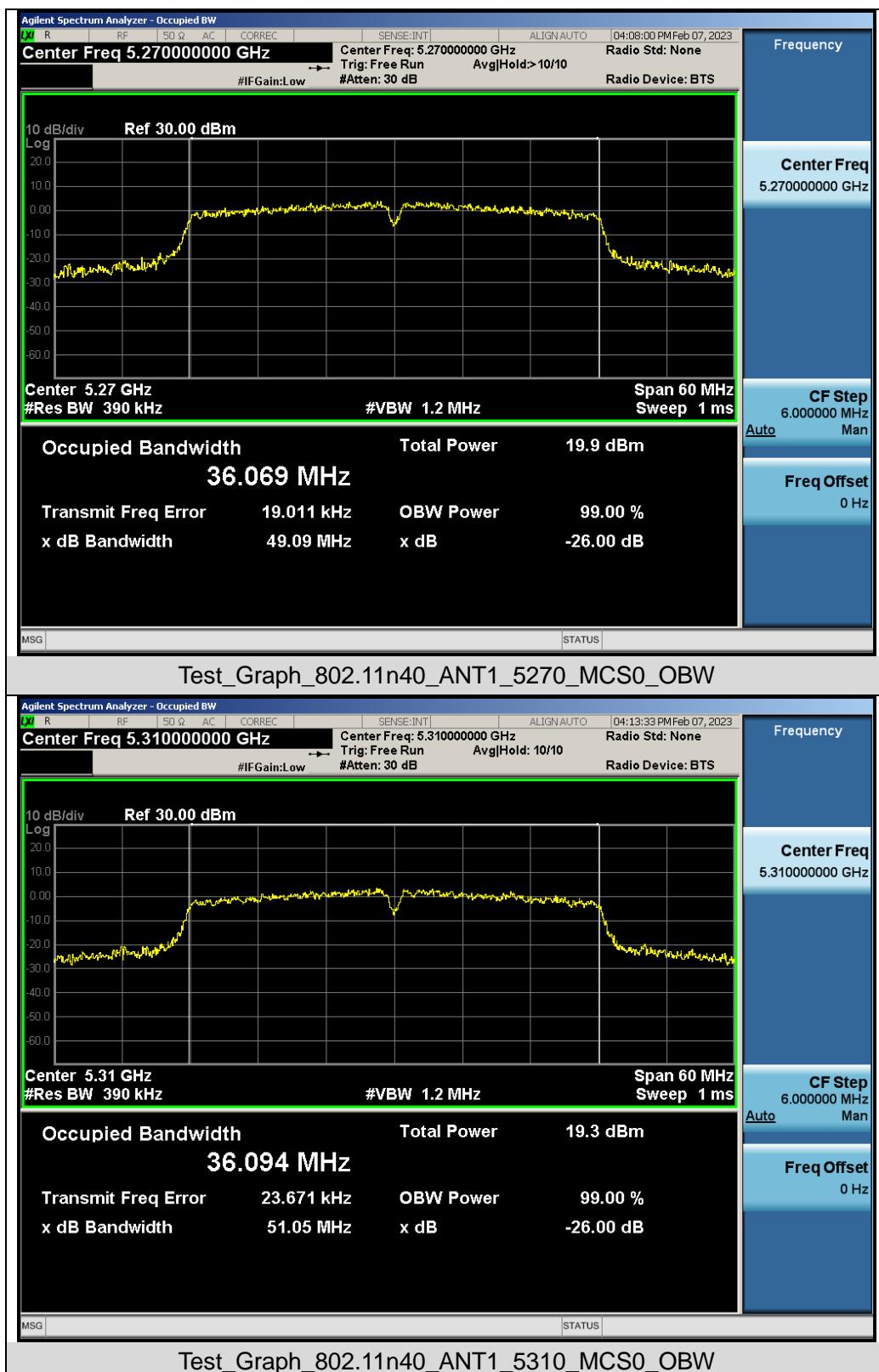


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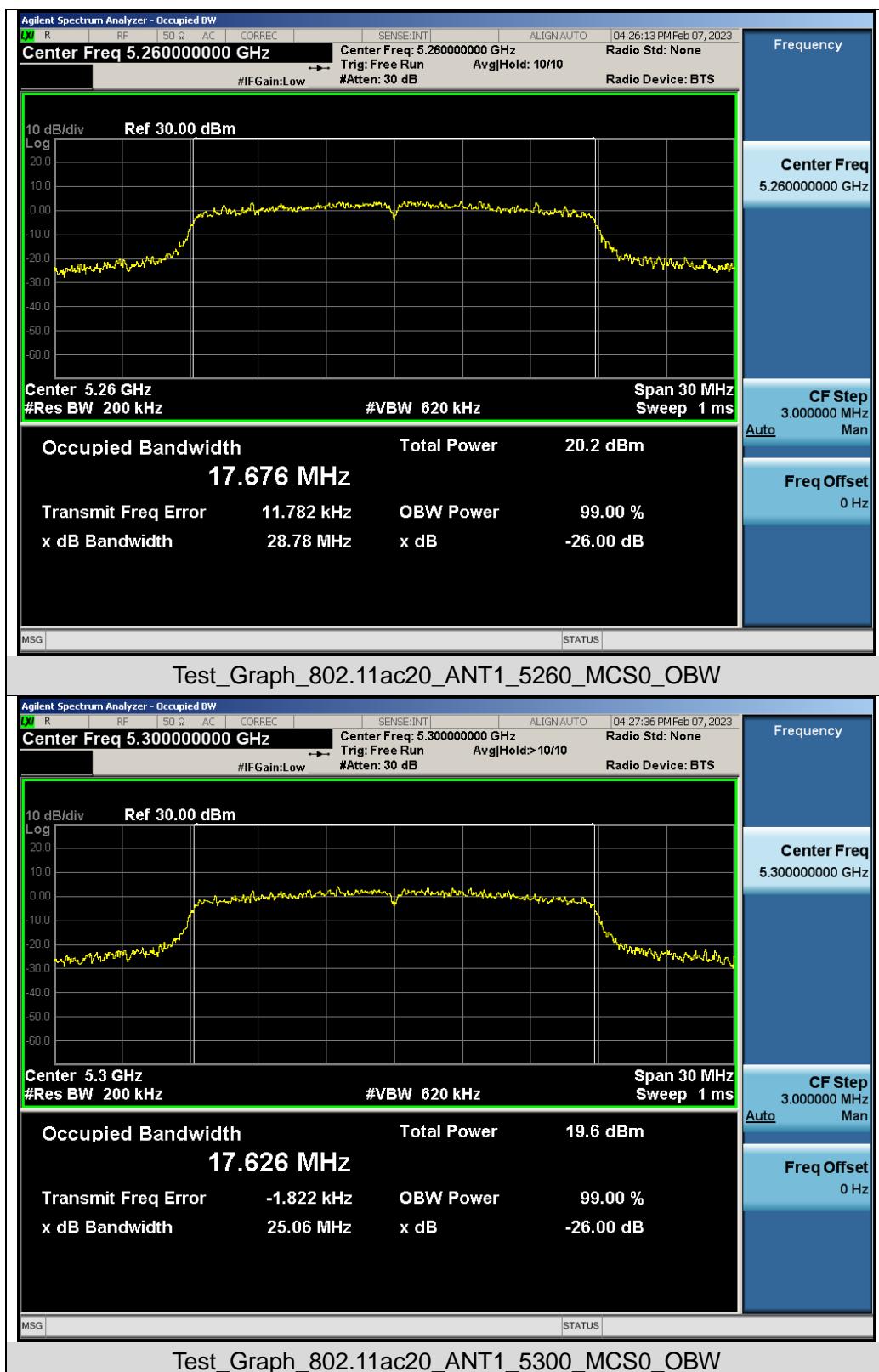


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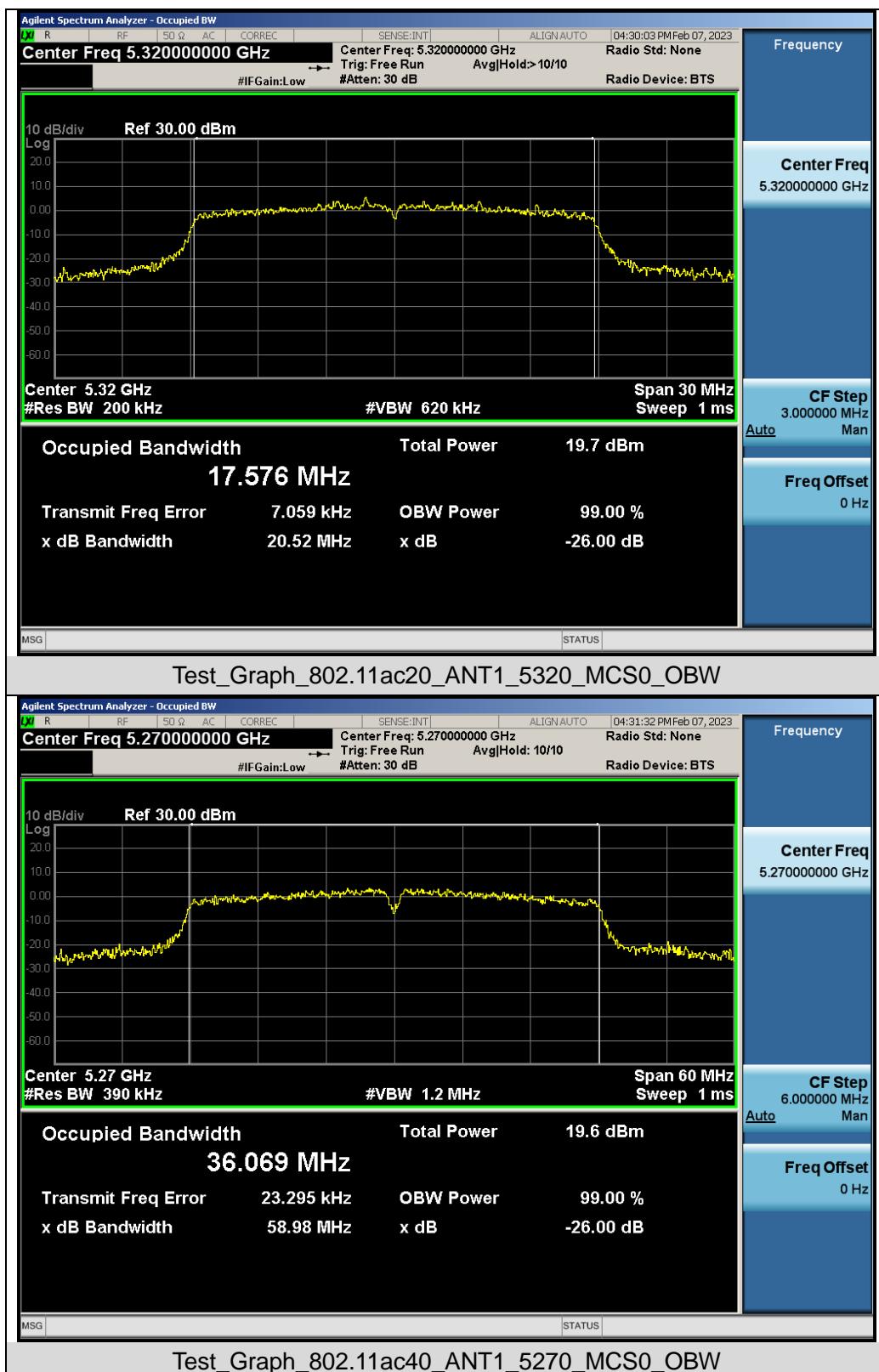


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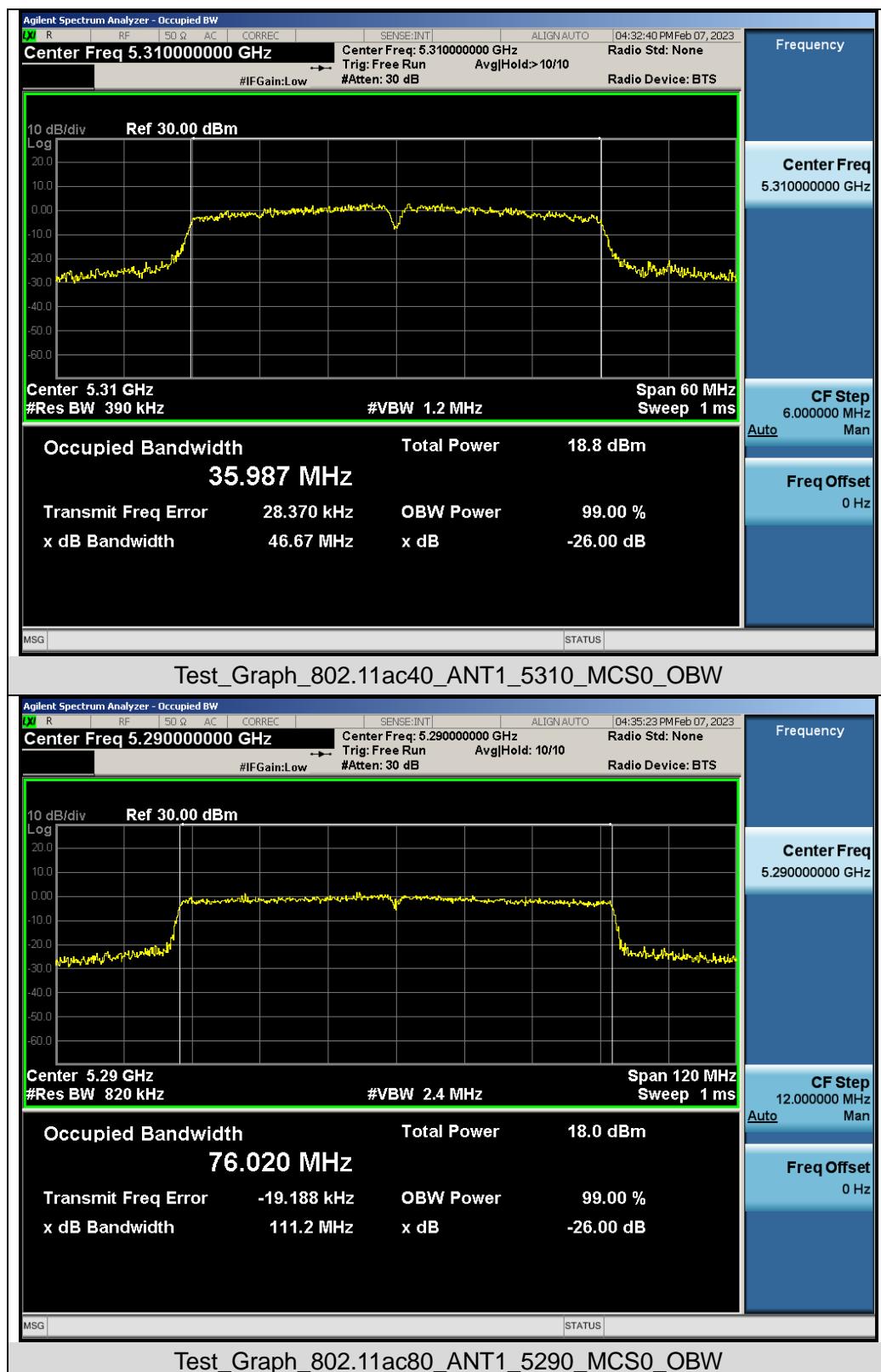


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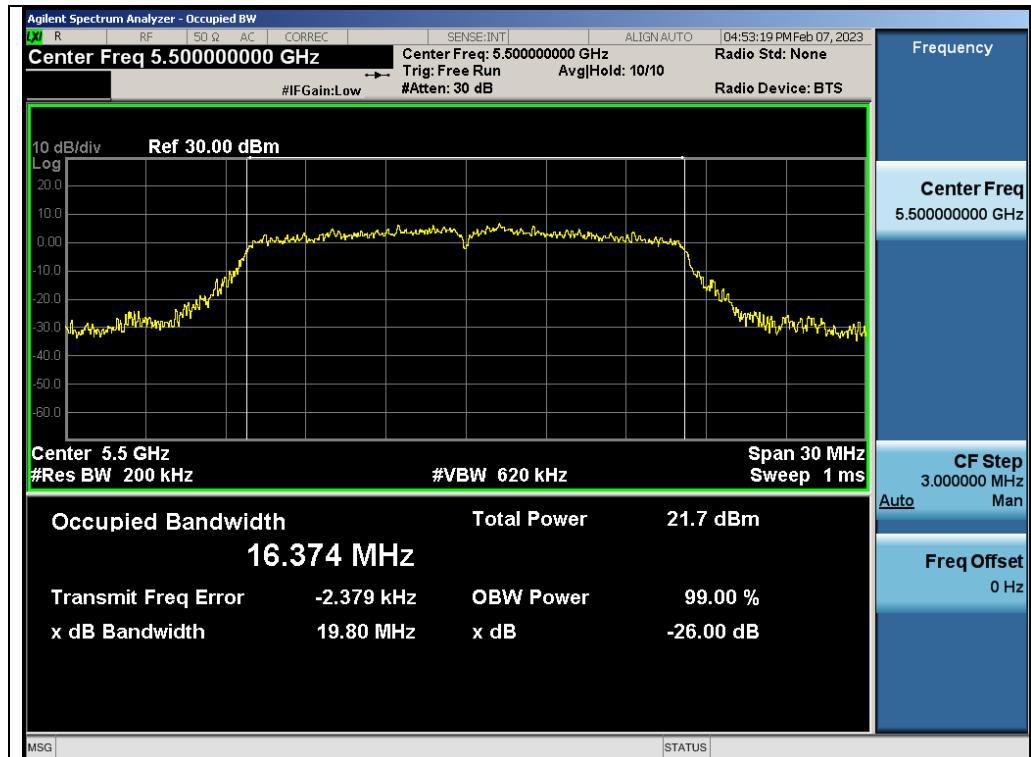
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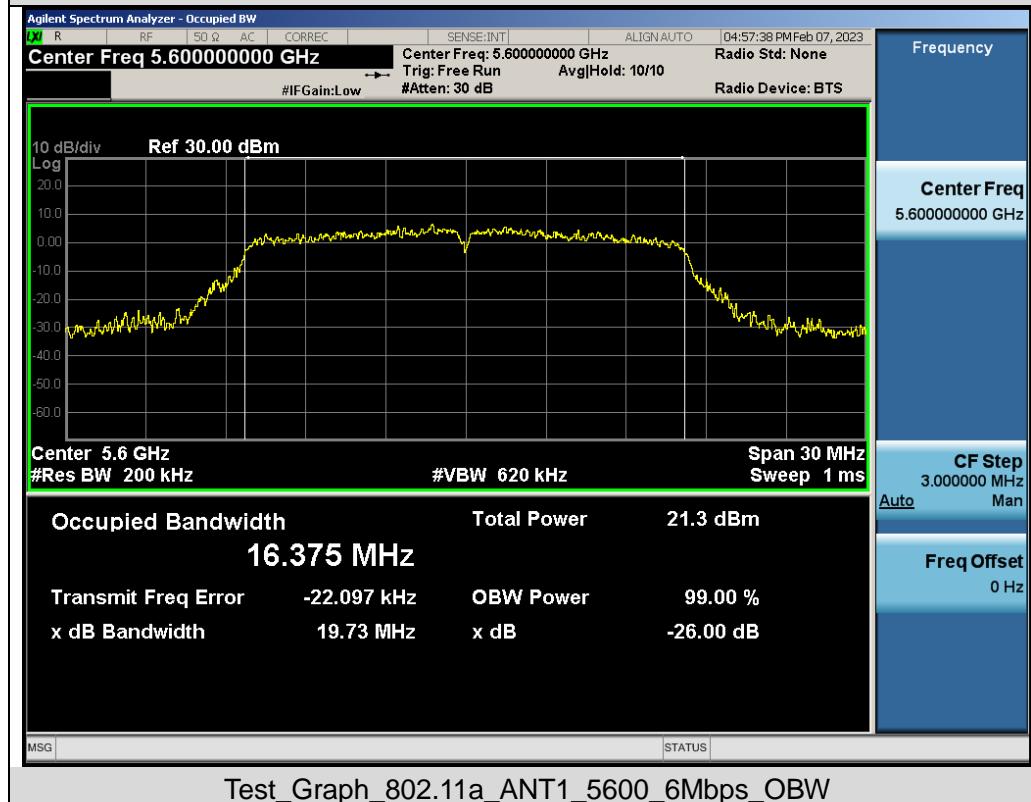
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Test Graphs of Occupied Bandwidth for band 5.47-5.725 GHz



Test_Graph_802.11a_ANT1_5500_6Mbps_OBW



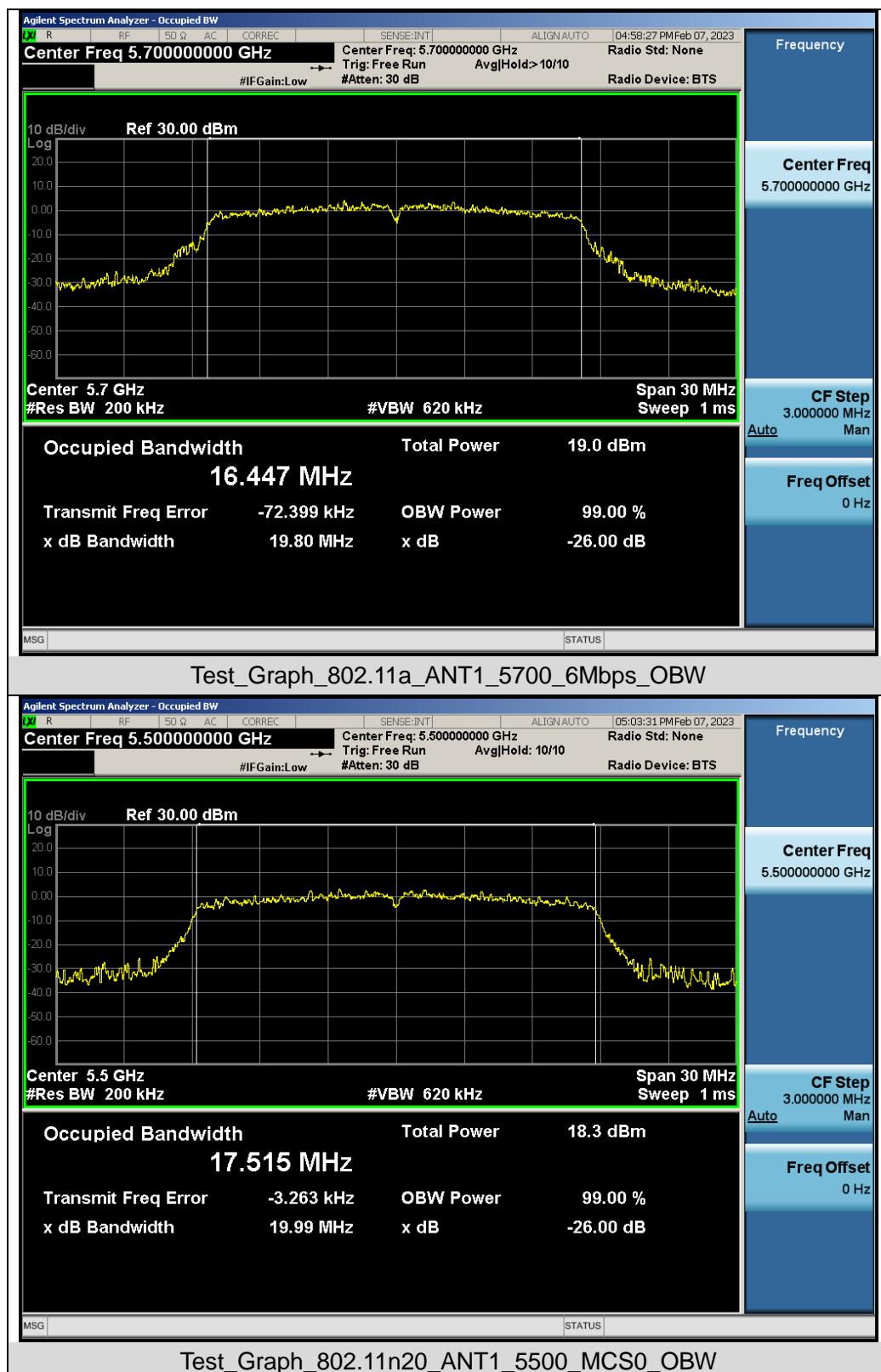
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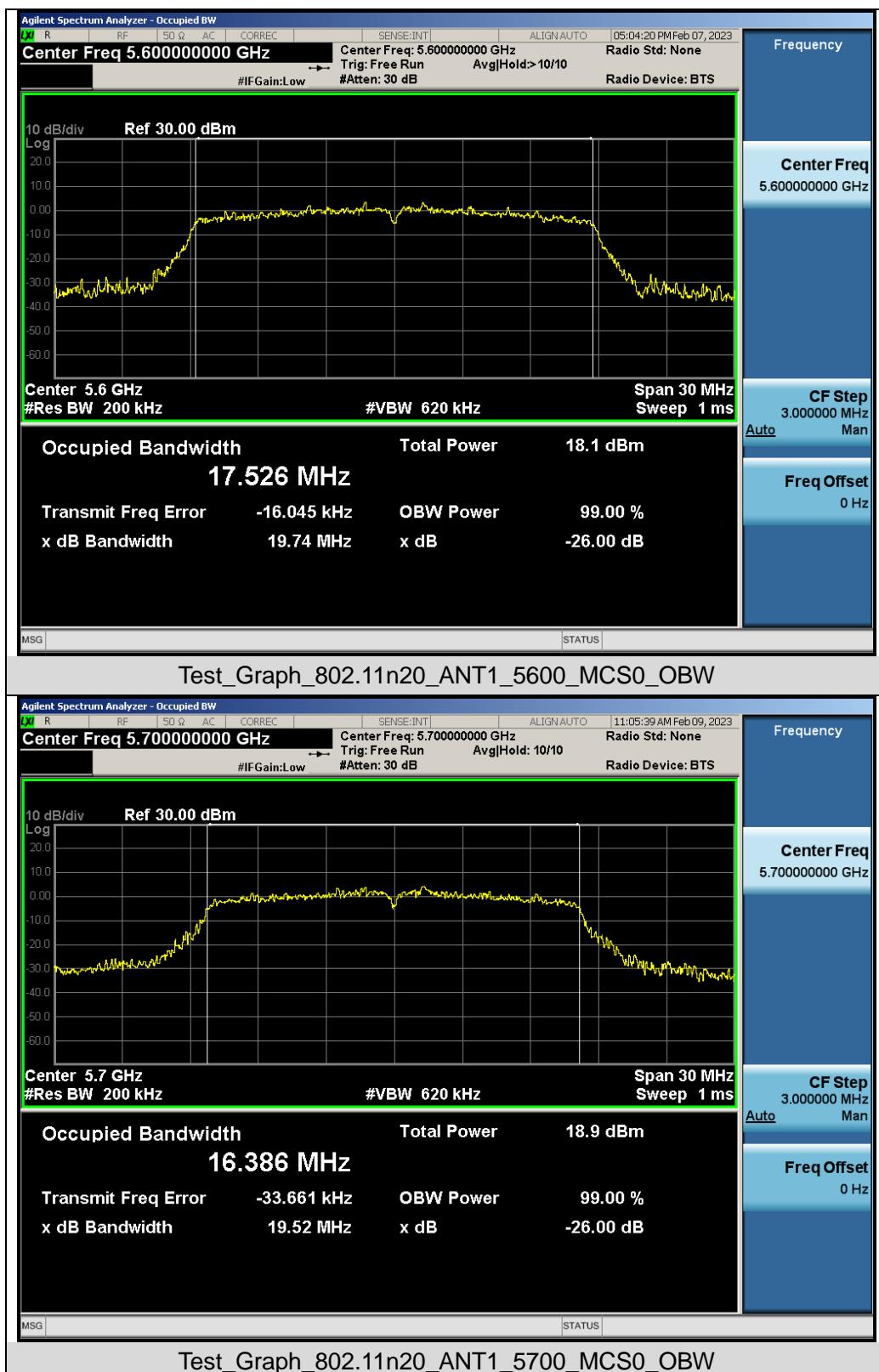


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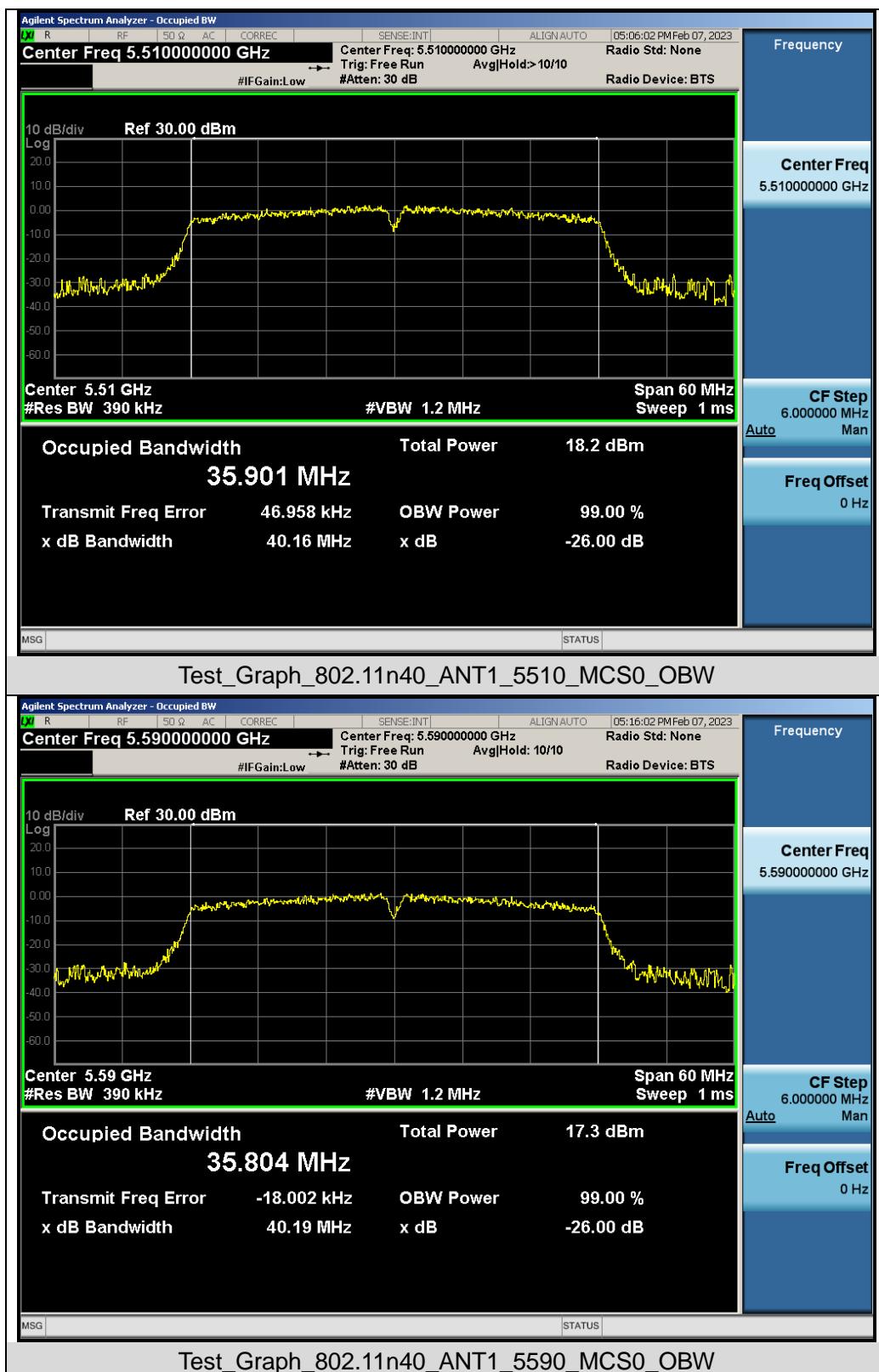


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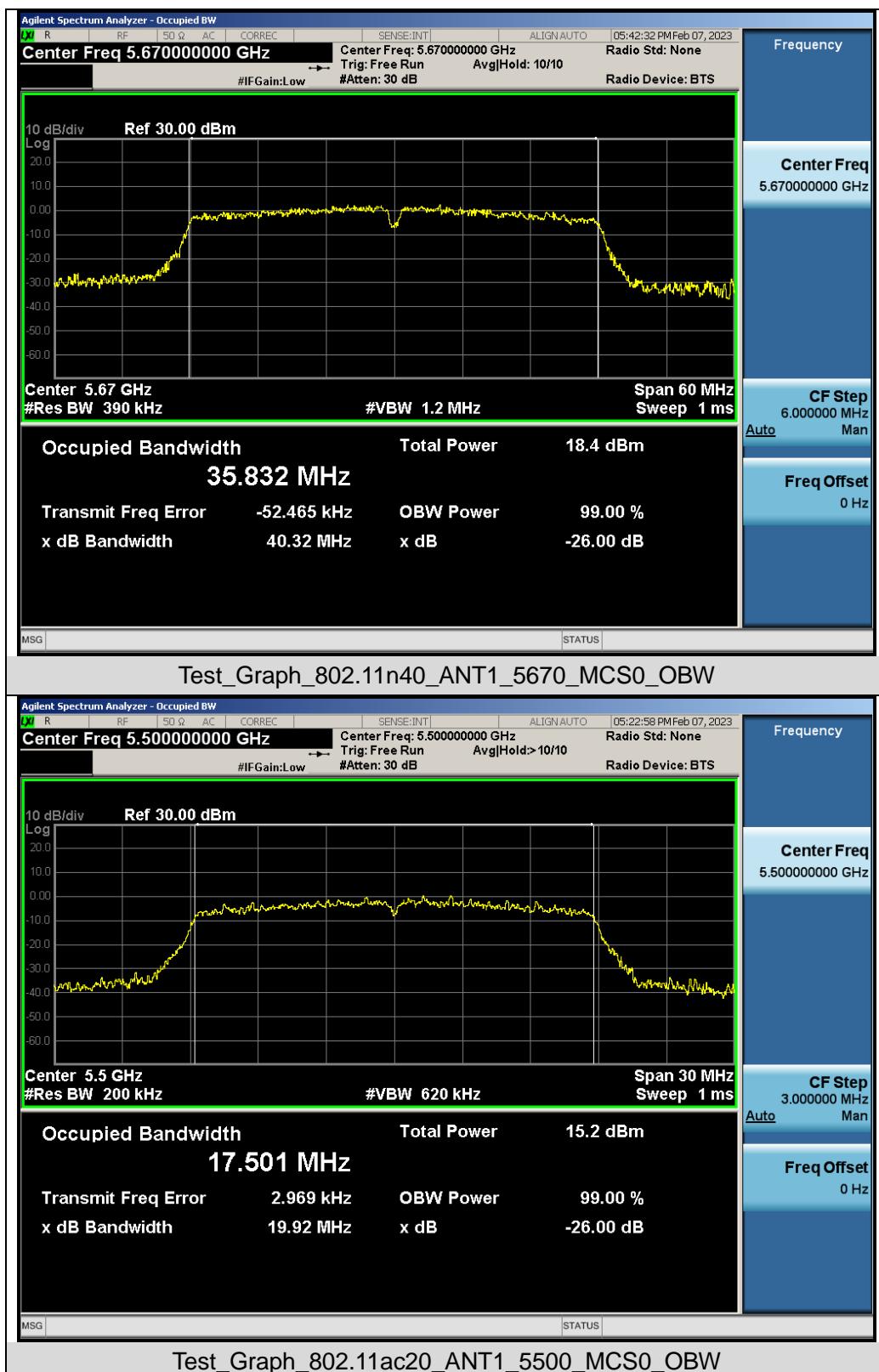


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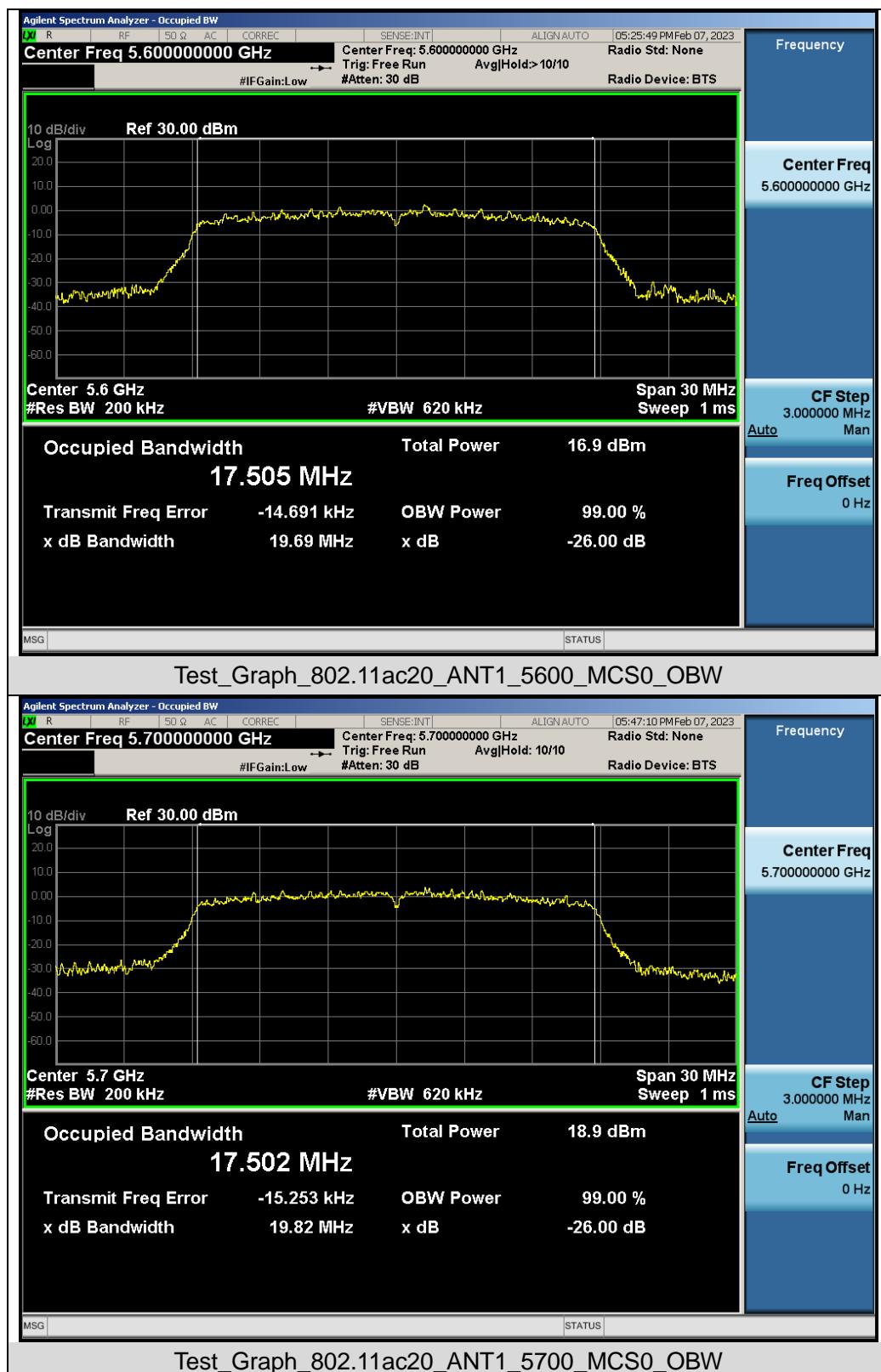


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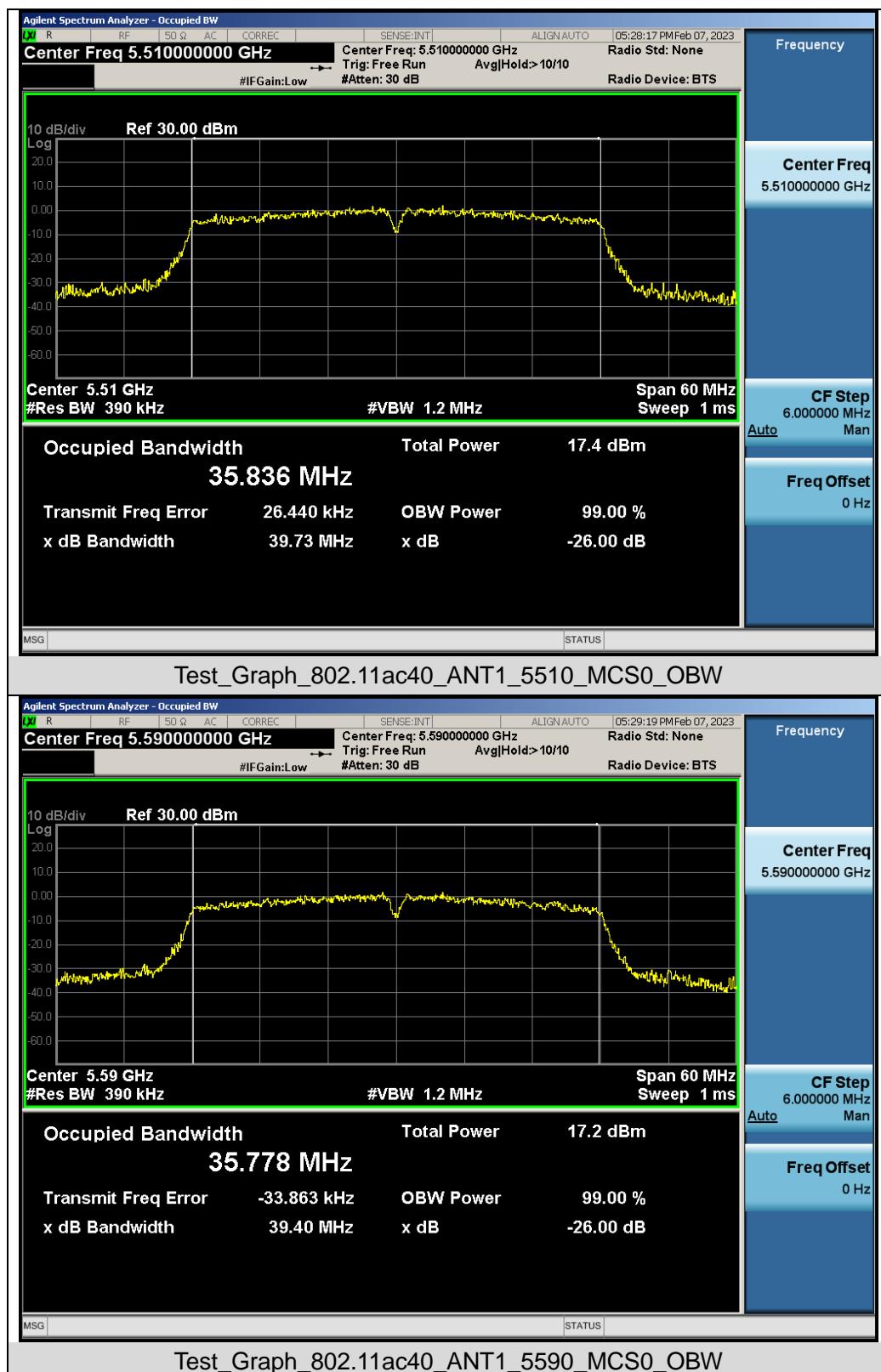


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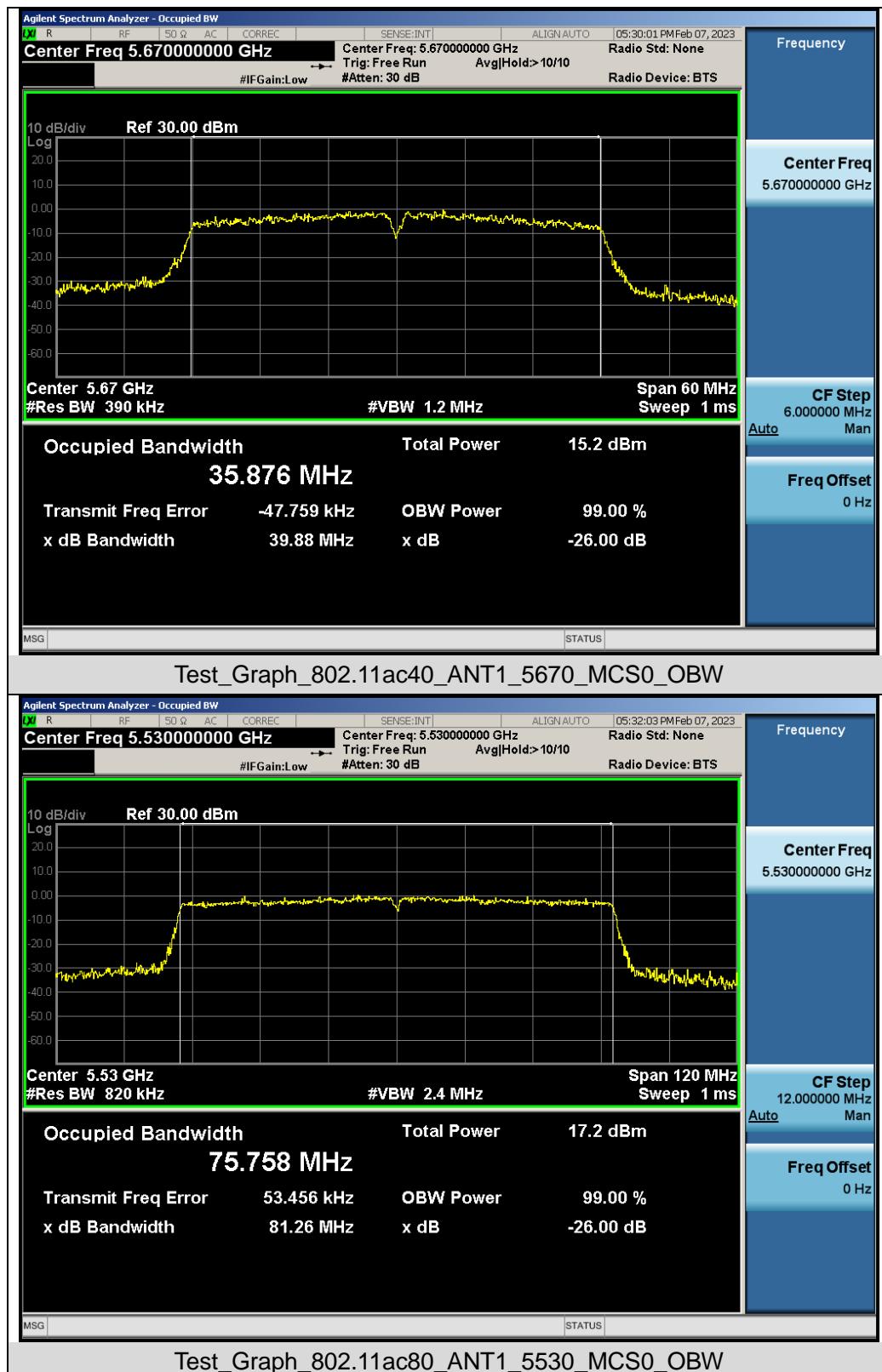


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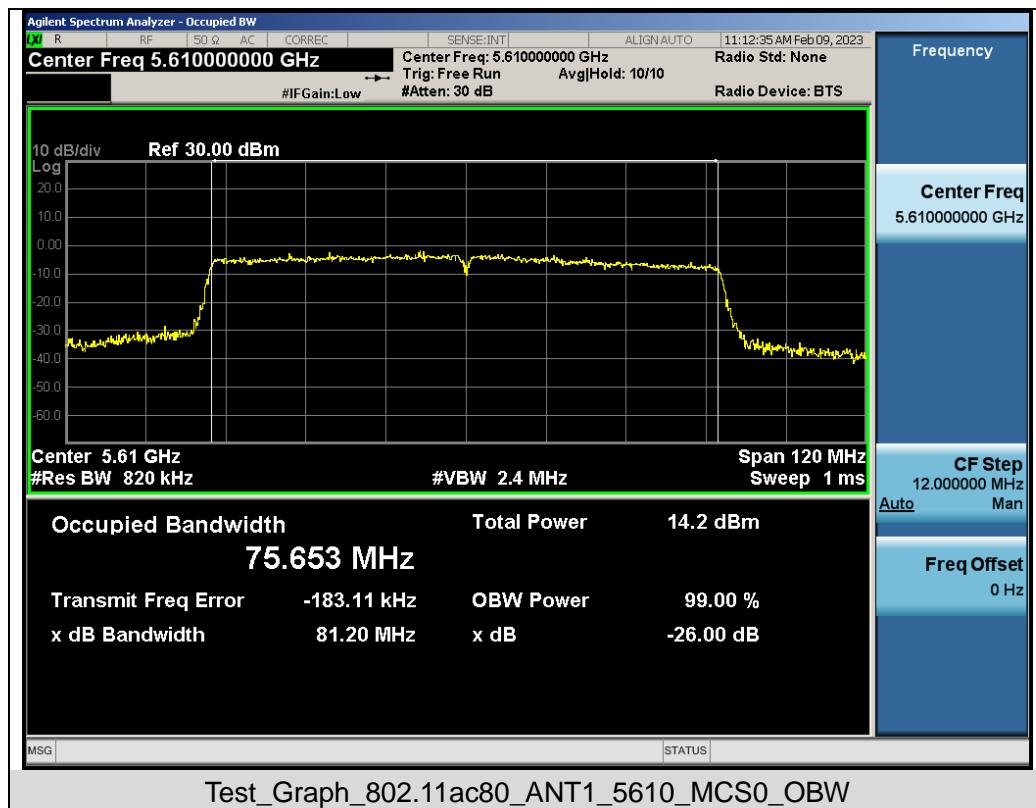


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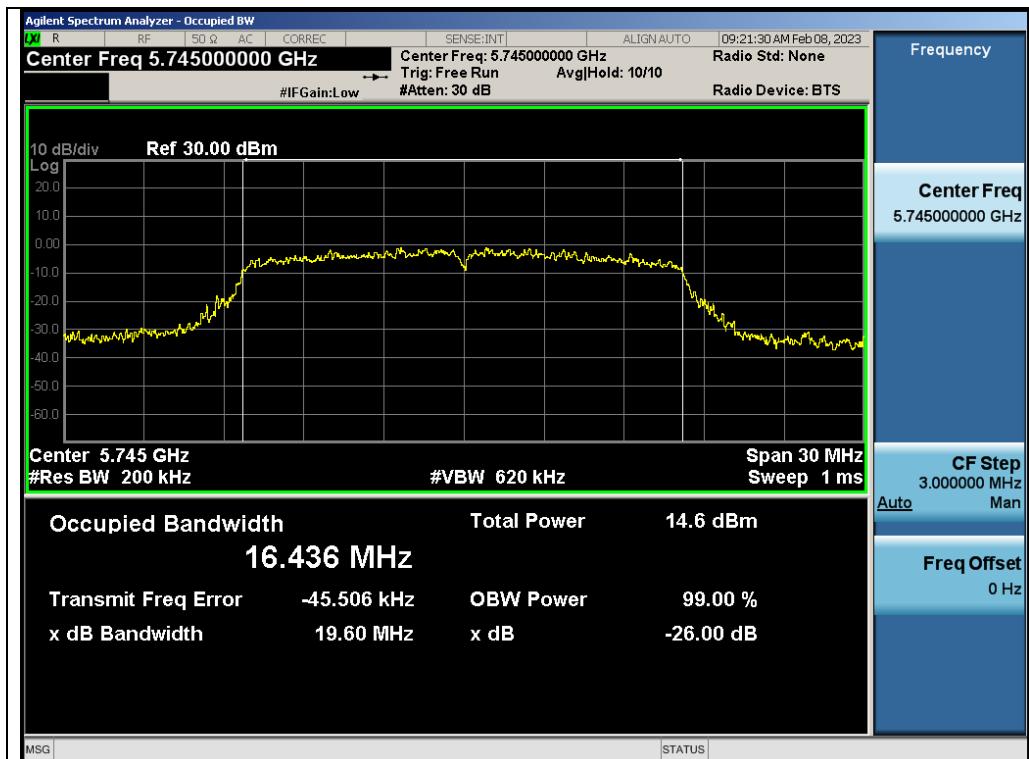
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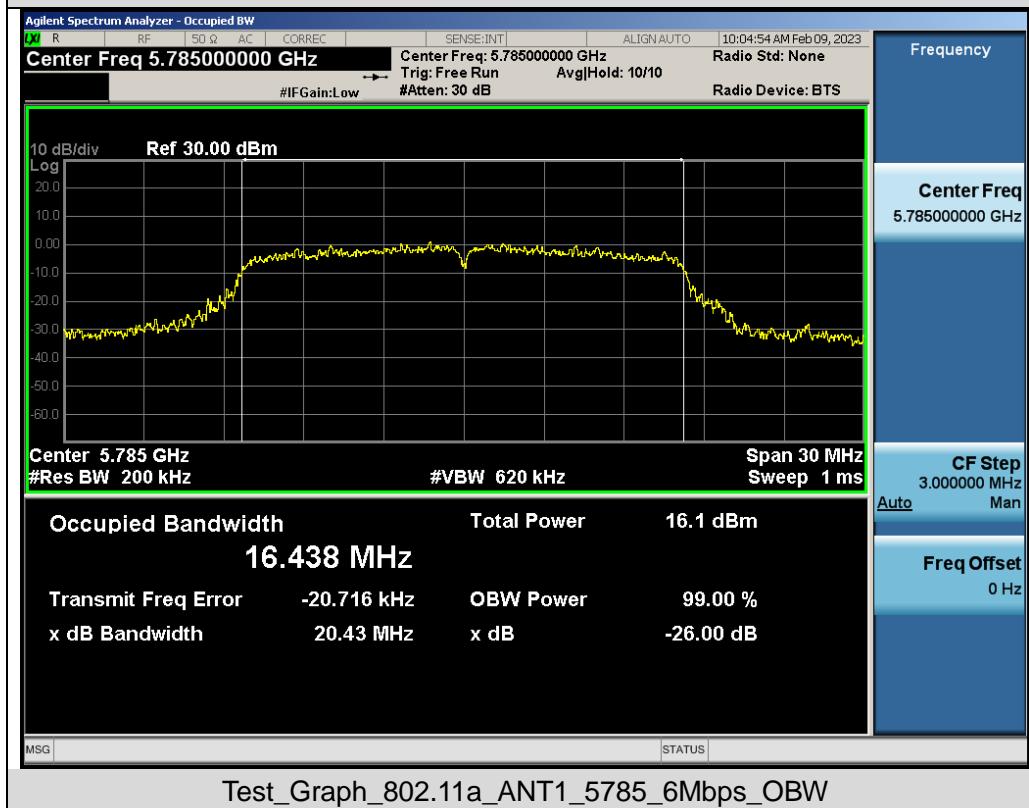
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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_OBW



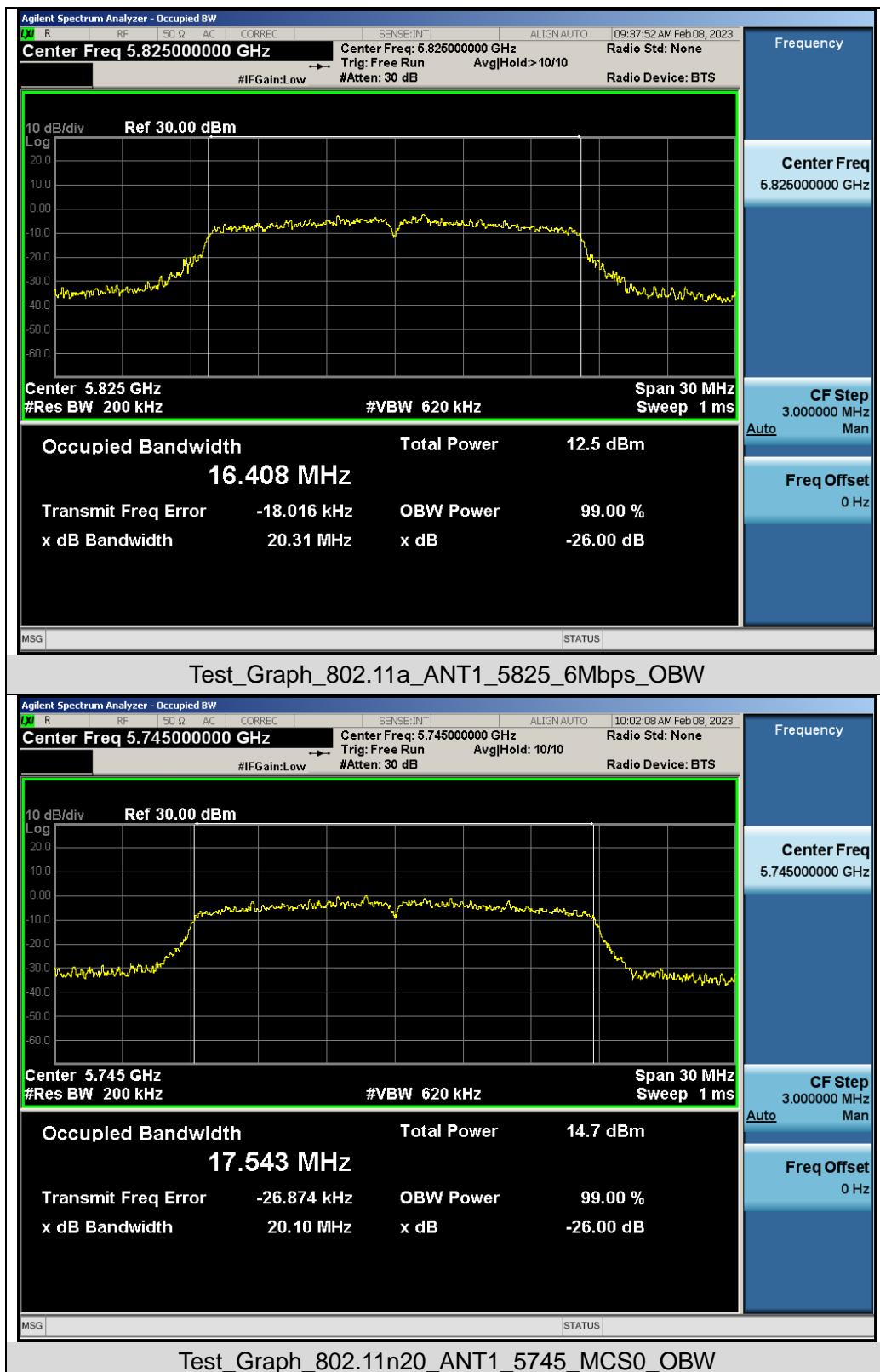
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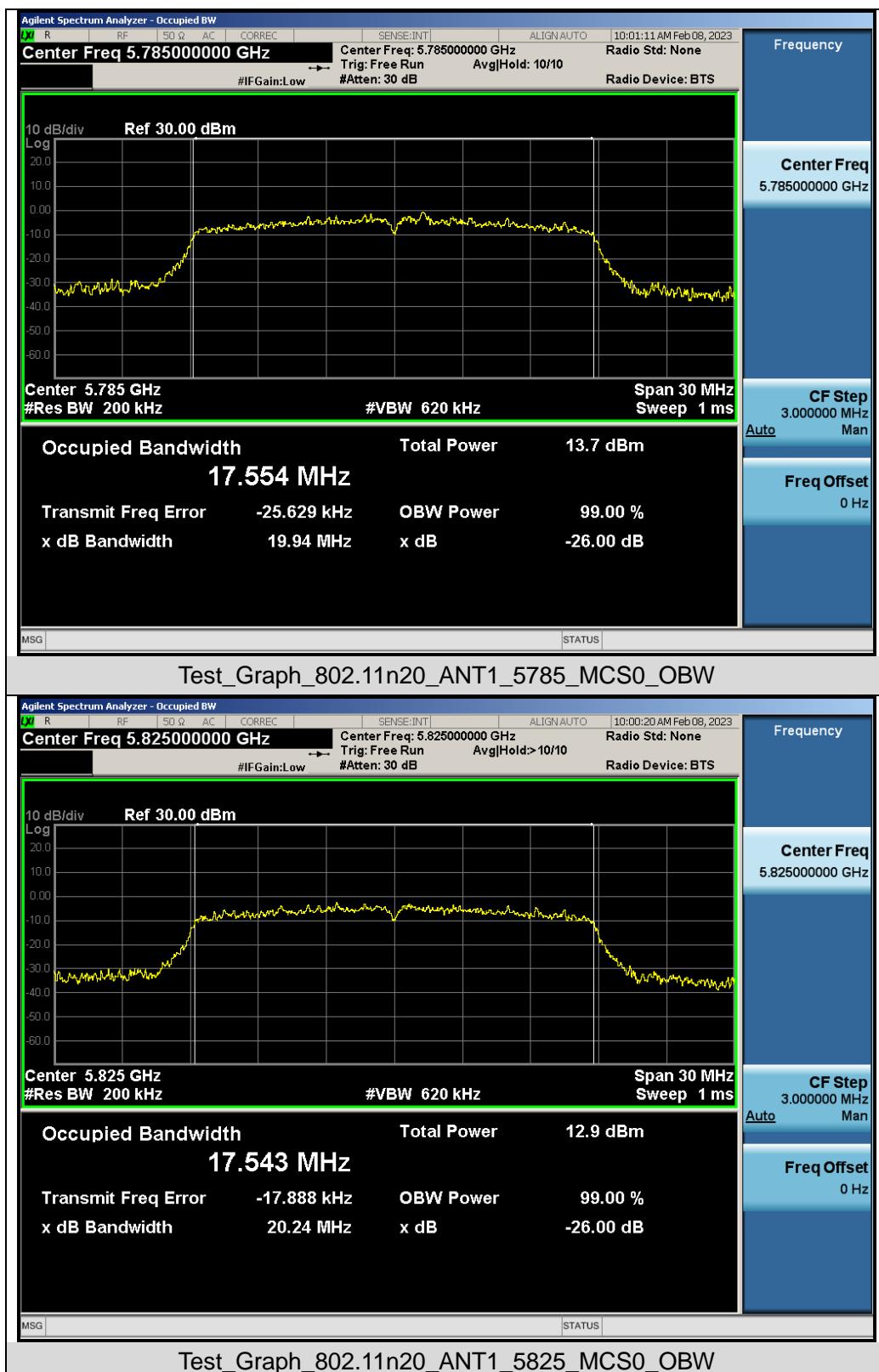


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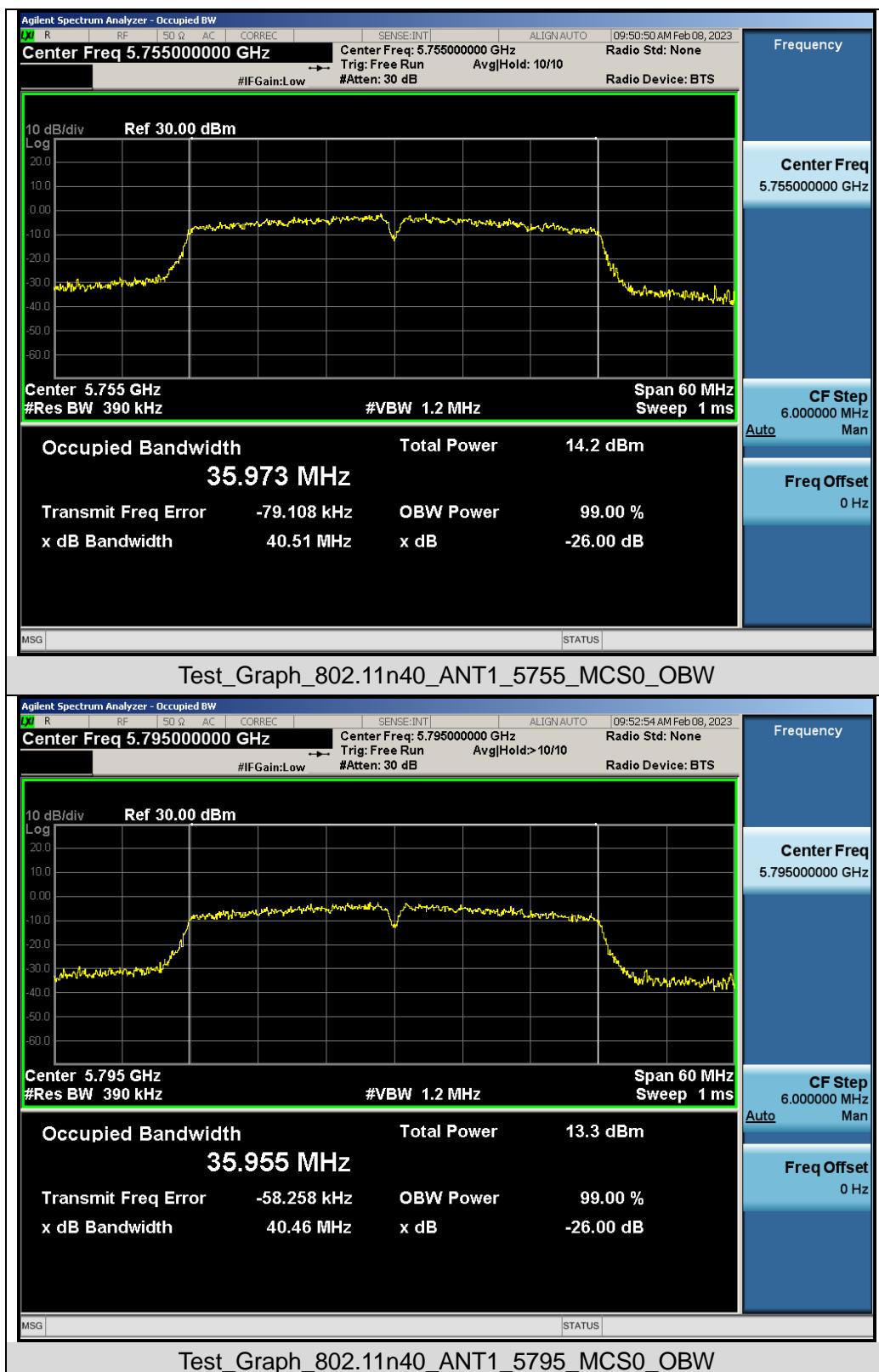


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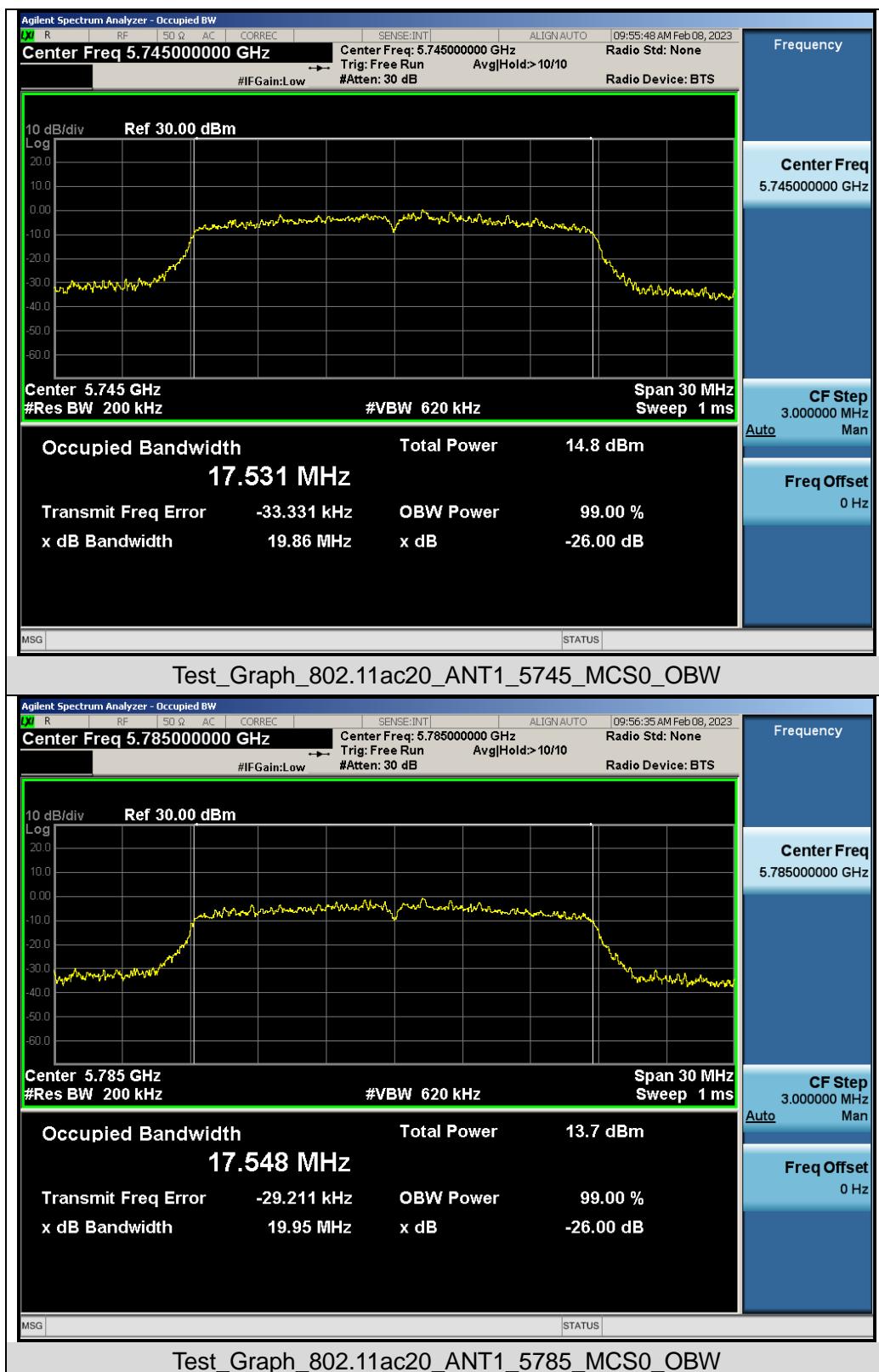


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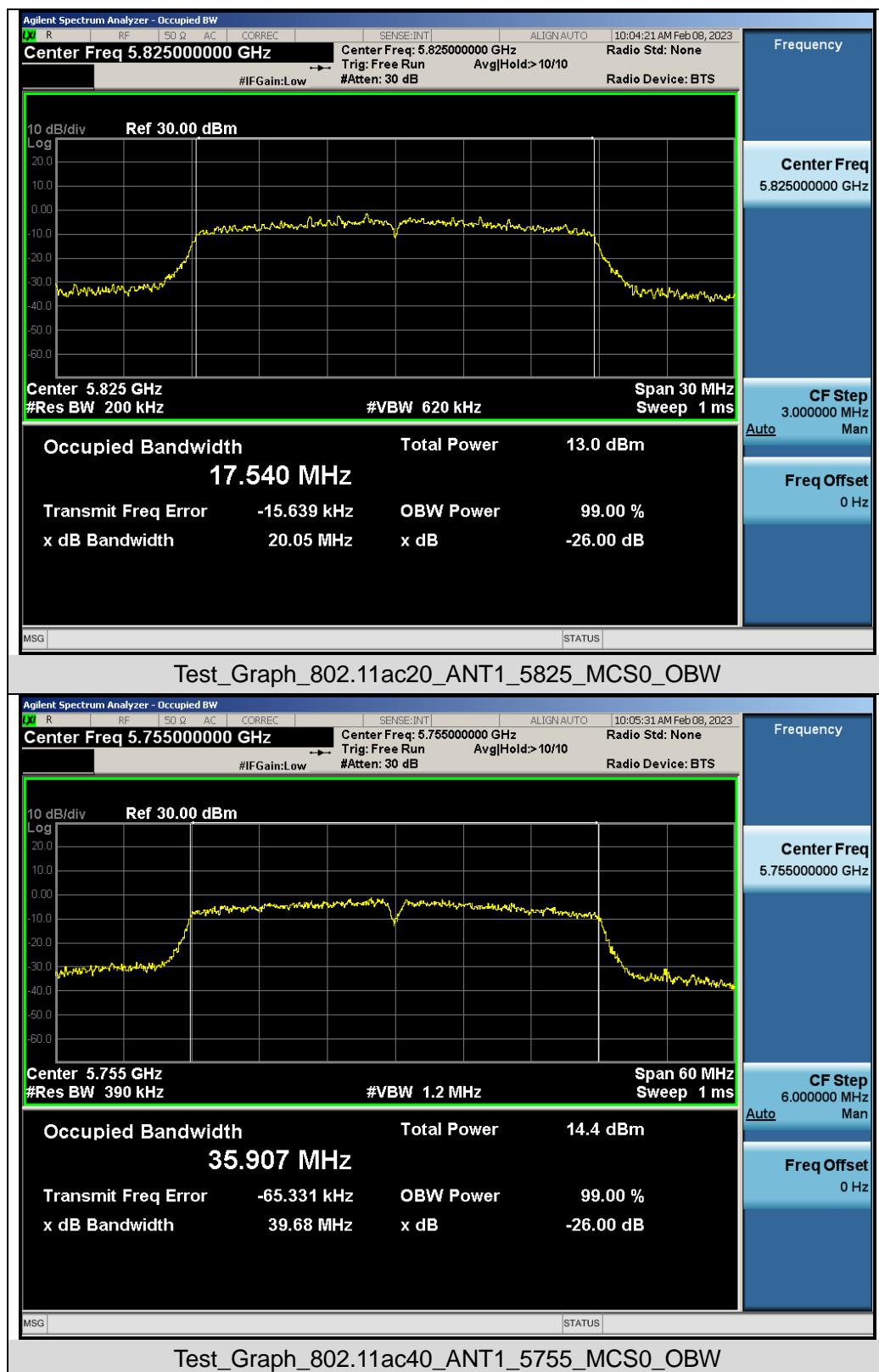


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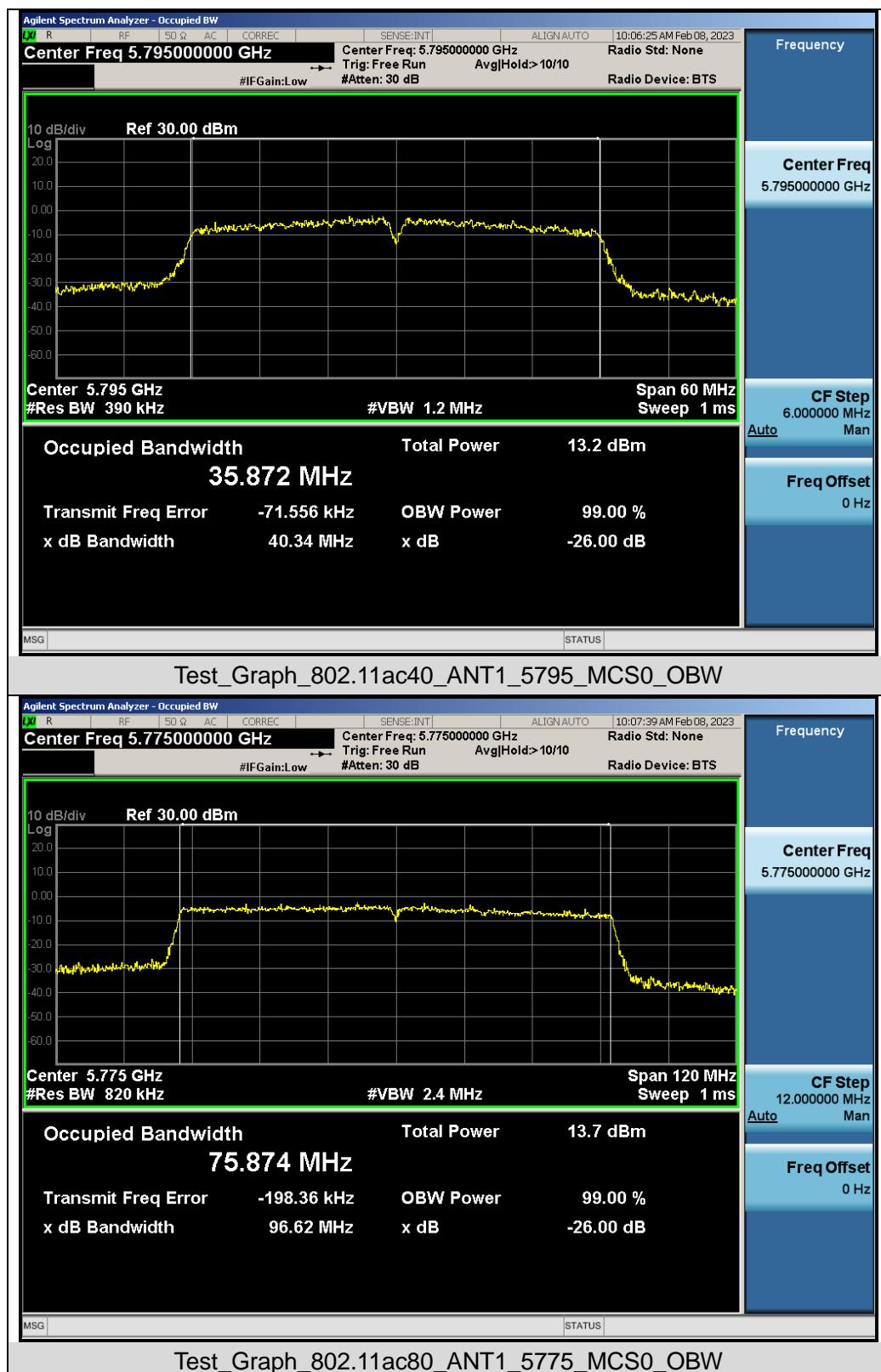


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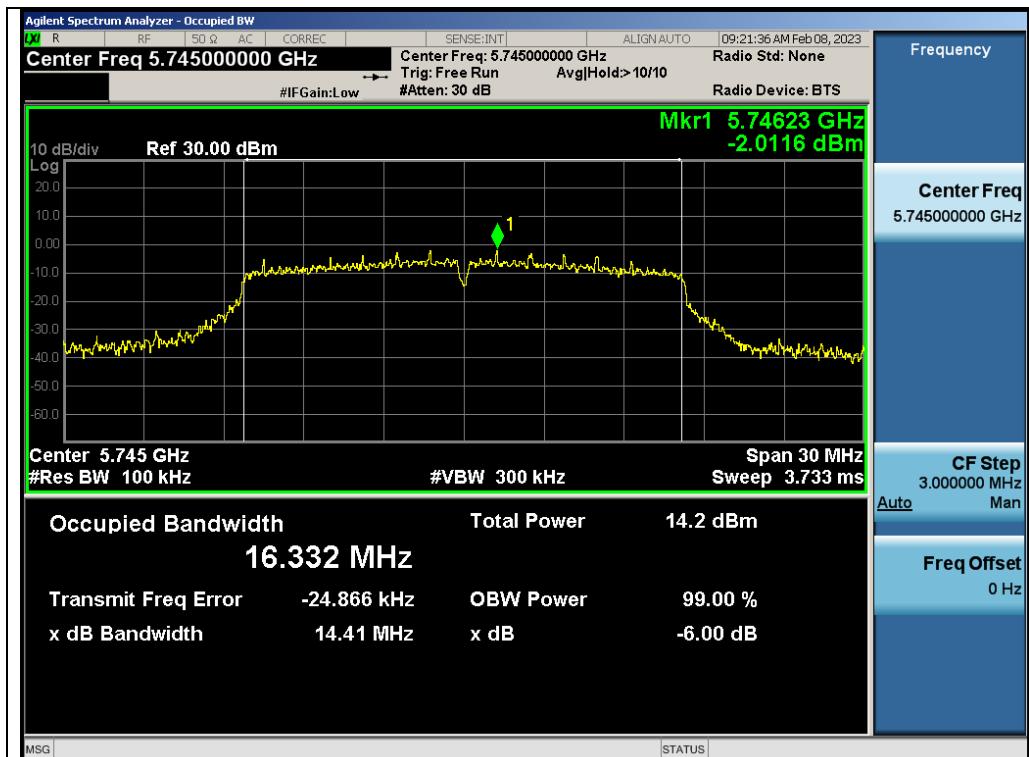
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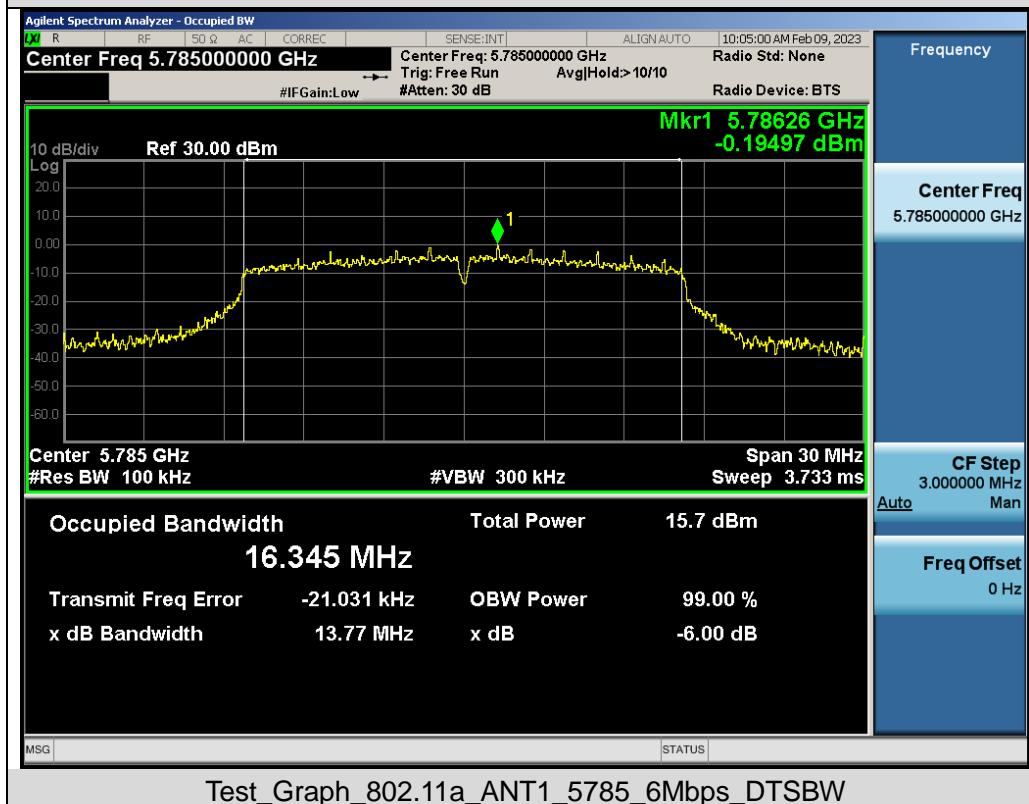
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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW



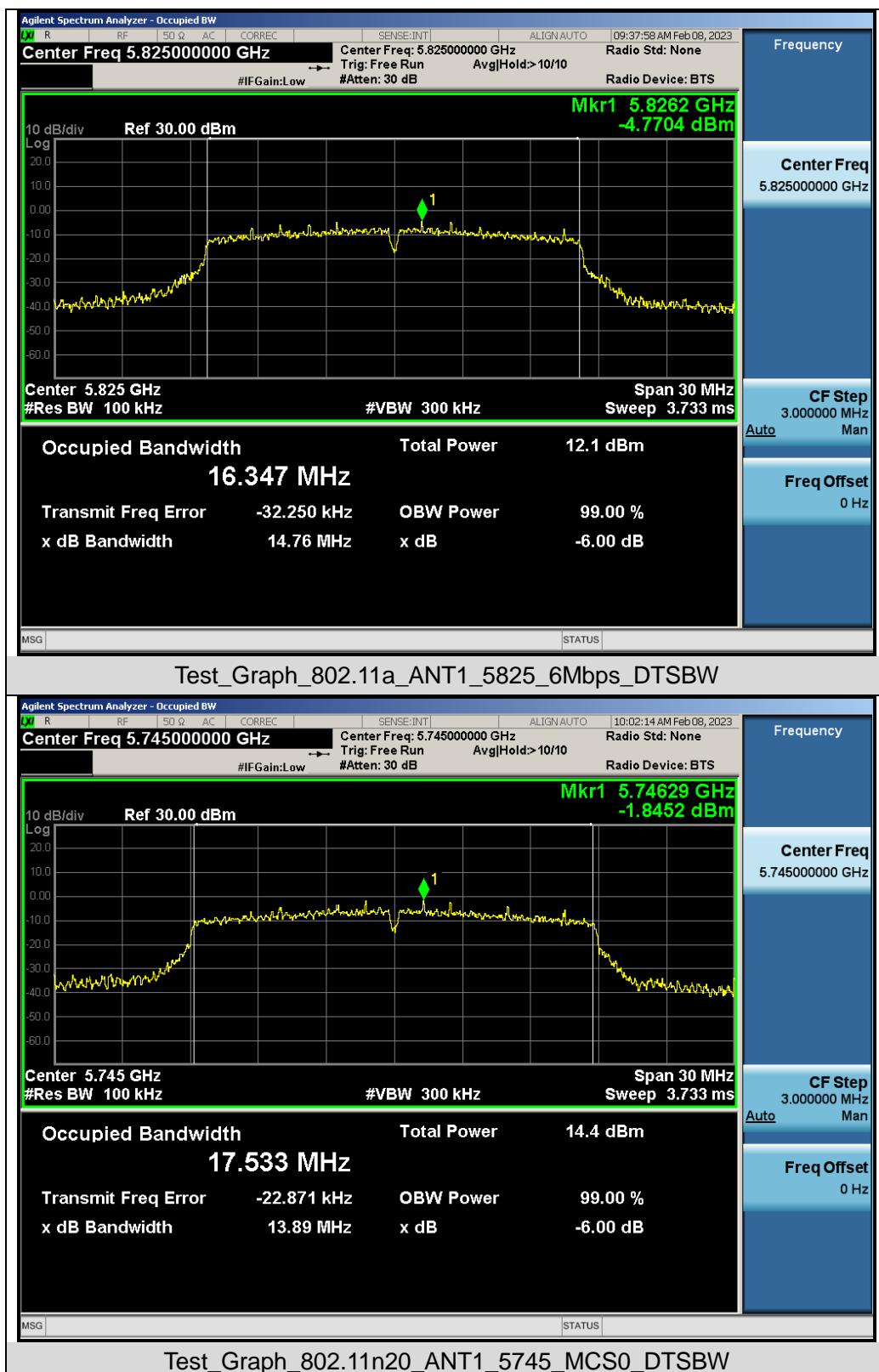
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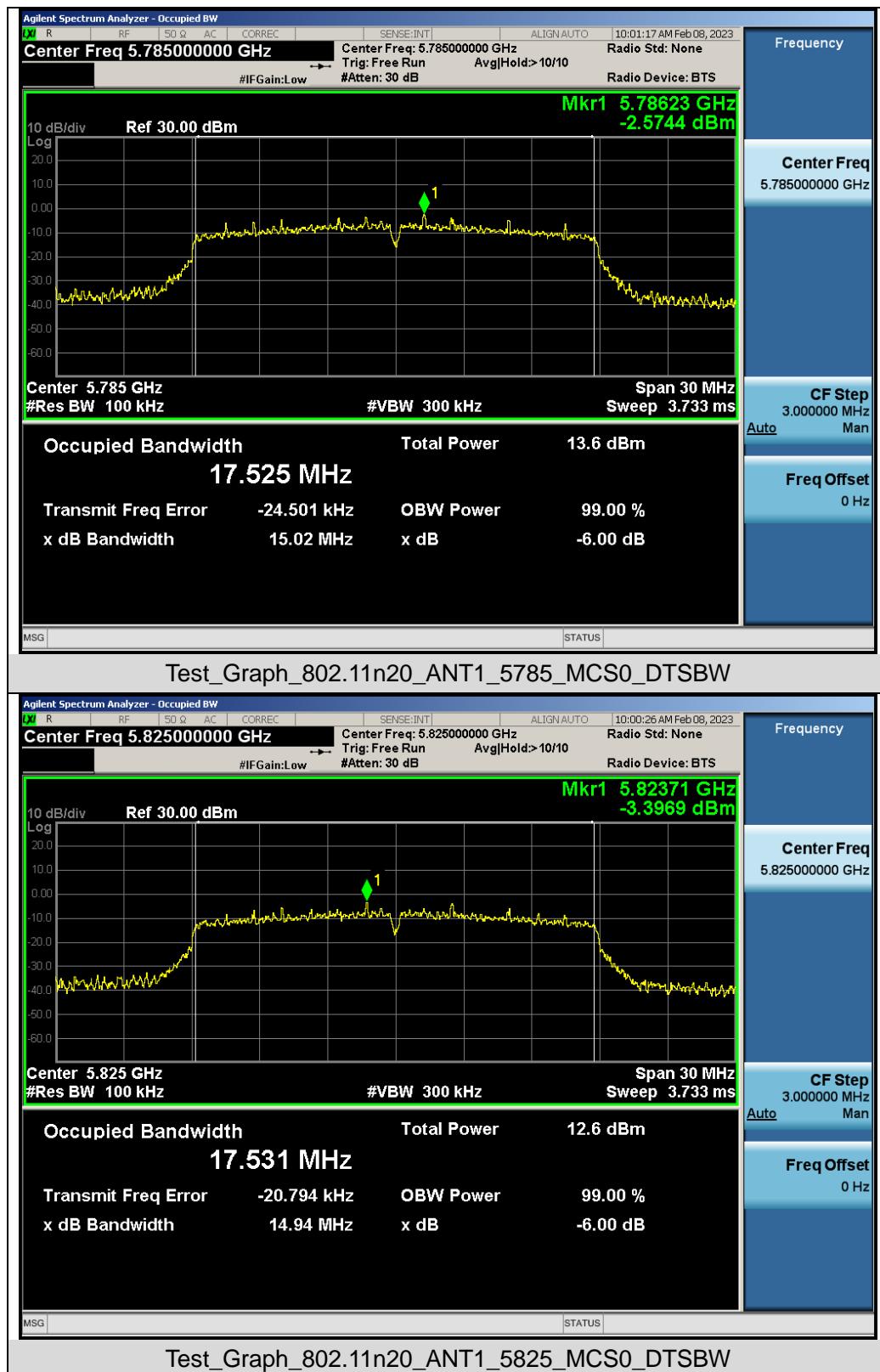


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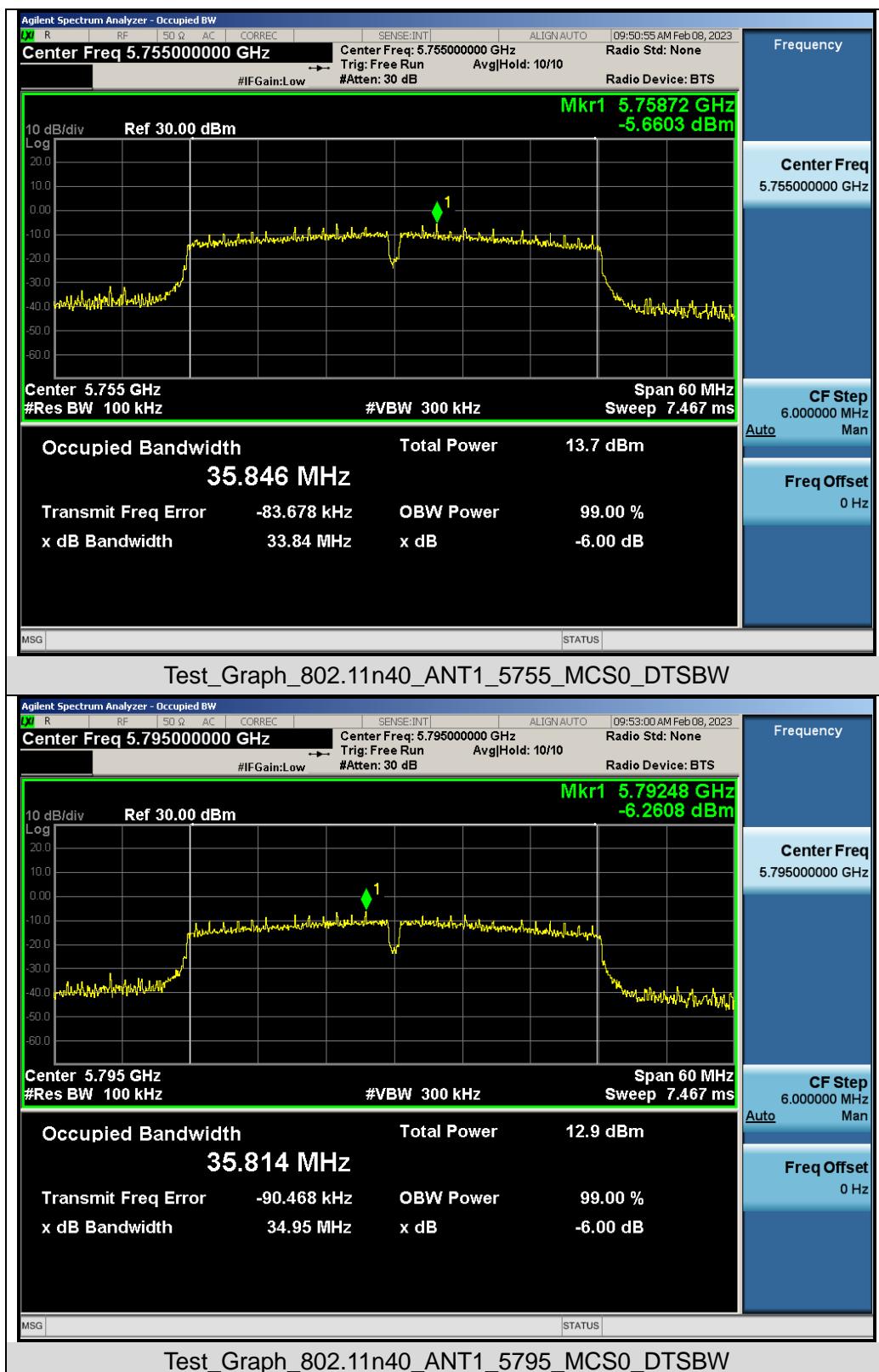


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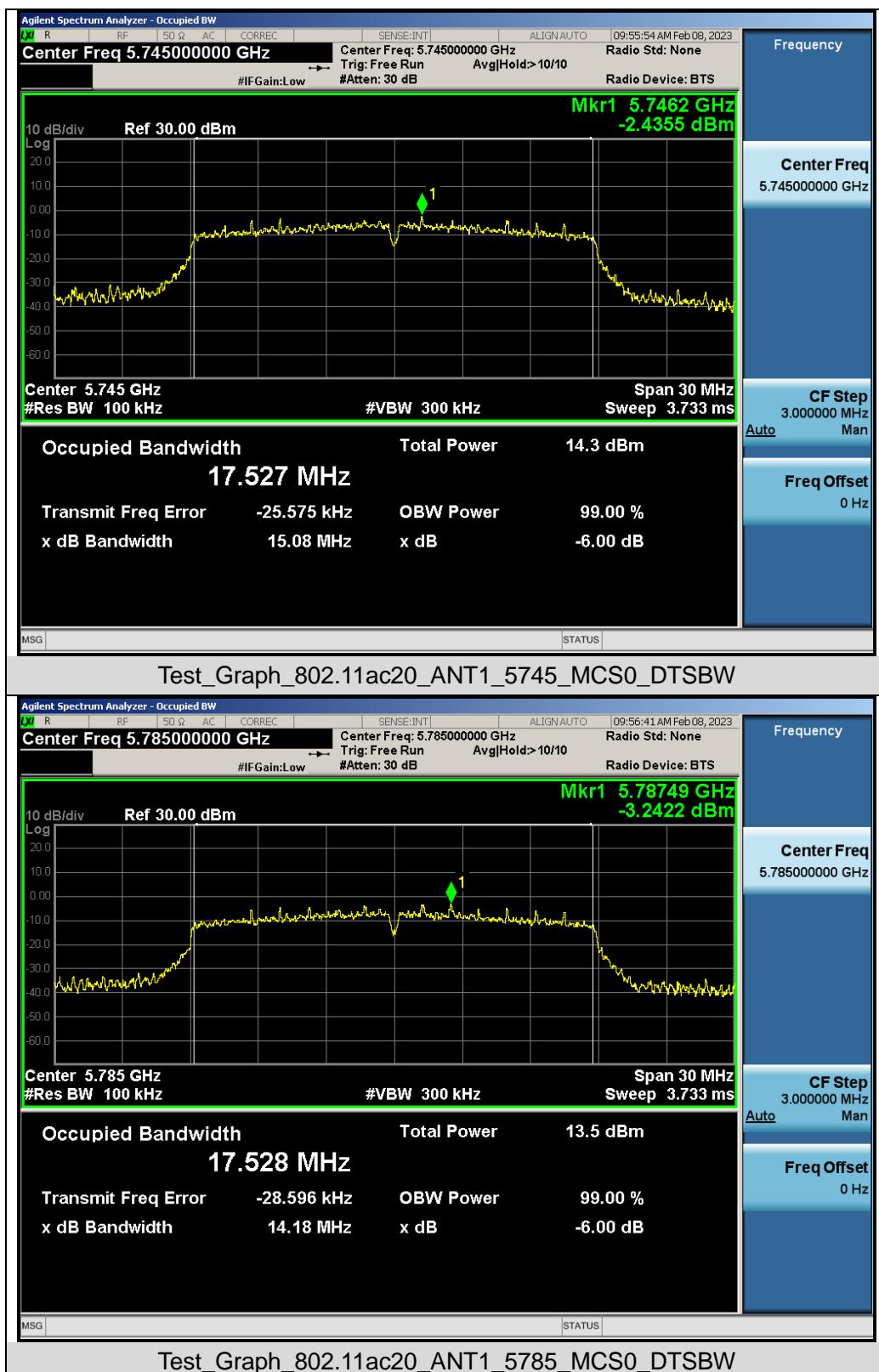


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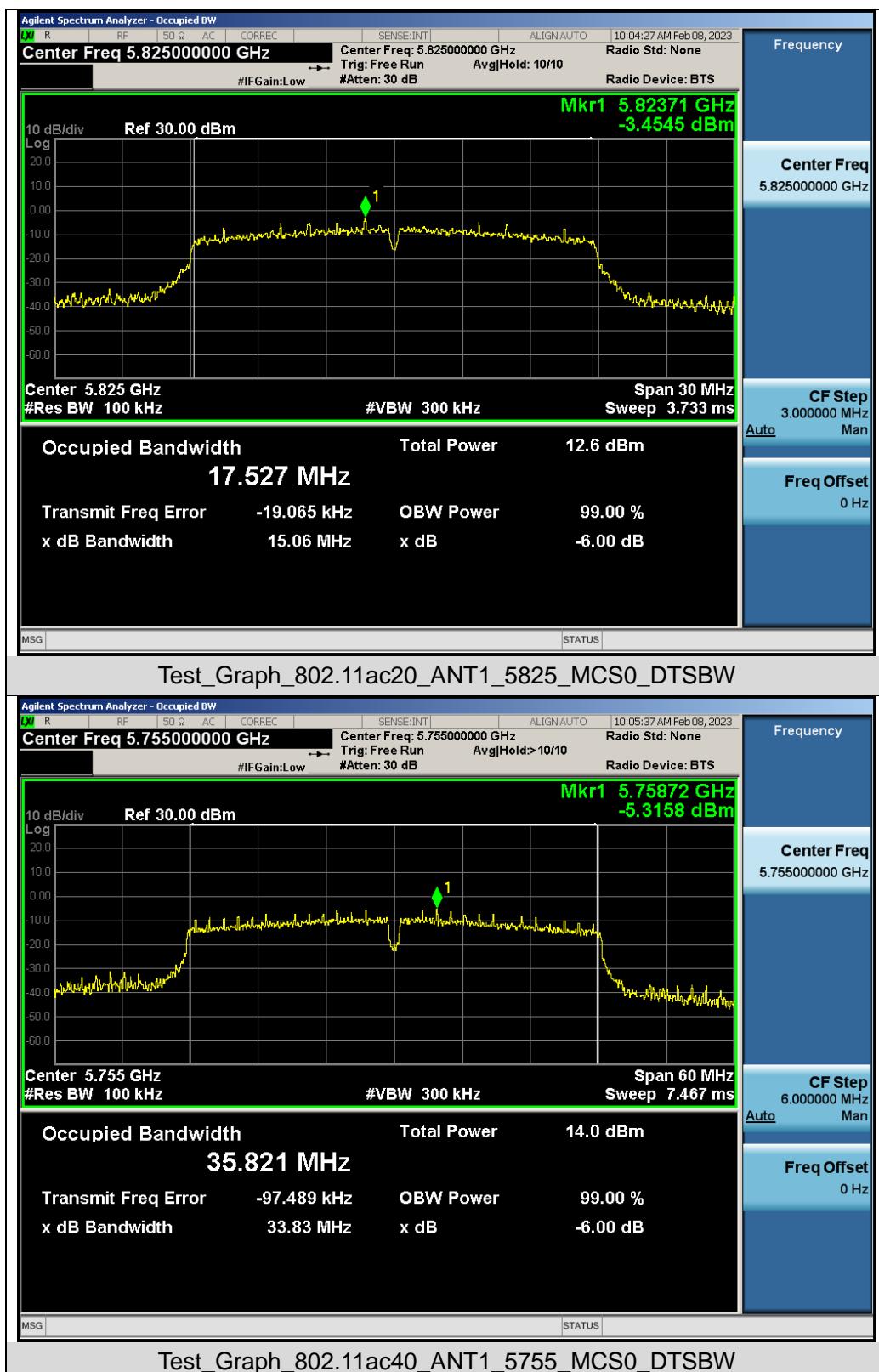


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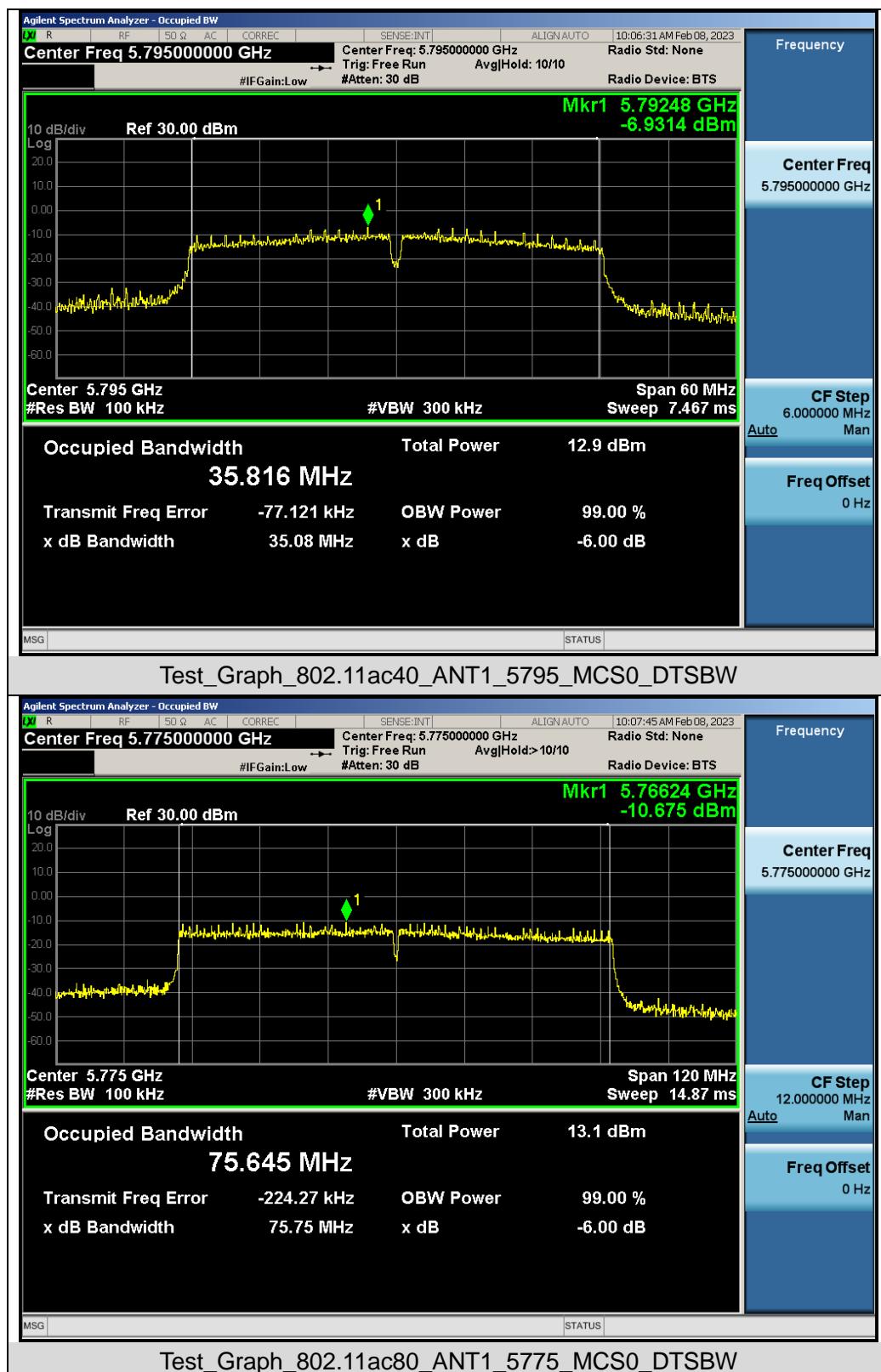


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9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

9.1. MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

9.4. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Density for band 5.15-5.25 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	6.854	11	Pass
	5200	6.198	11	Pass
	5240	6.497	11	Pass
802.11n20	5180	5.620	11	Pass
	5200	5.628	11	Pass
	5240	5.310	11	Pass
802.11n40	5190	1.595	11	Pass
	5230	1.810	11	Pass
802.11ac20	5180	5.007	11	Pass
	5200	4.470	11	Pass
	5240	5.693	11	Pass
802.11ac40	5190	1.831	11	Pass
	5230	1.575	11	Pass
802.11ac80	5210	-6.345	11	Pass

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Test Data of Conducted Output Power Density for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5260	6.565	11	Pass
	5300	5.932	11	Pass
	5320	5.789	11	Pass
802.11n20	5260	5.282	11	Pass
	5300	4.437	11	Pass
	5320	5.034	11	Pass
802.11n40	5270	1.739	11	Pass
	5310	1.250	11	Pass
802.11ac20	5260	4.813	11	Pass
	5300	4.384	11	Pass
	5320	4.395	11	Pass
802.11ac40	5270	1.521	11	Pass
	5310	0.978	11	Pass
802.11ac80	5290	-4.136	11	Pass

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Test Data of Conducted Output Power Density for band 5.47-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	6.302	11	Pass
	5600	6.068	11	Pass
	5700	3.896	11	Pass
802.11n20	5500	3.012	11	Pass
	5600	2.843	11	Pass
	5700	3.554	11	Pass
802.11n40	5510	-0.384	11	Pass
	5590	-0.335	11	Pass
	5670	-0.134	11	Pass
802.11ac20	5500	2.033	11	Pass
	5600	1.792	11	Pass
	5700	3.639	11	Pass
802.11ac40	5510	-0.558	11	Pass
	5590	-0.597	11	Pass
	5670	0.561	11	Pass
802.11ac80	5530	-6.040	11	Pass
	5610	-6.735	11	Pass

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-9.598	-2.608	30	Pass
	5785	-10.409	-3.419	30	Pass
	5825	-11.273	-4.283	30	Pass
802.11n20	5745	-9.369	-2.379	30	Pass
	5785	-10.649	-3.659	30	Pass
	5825	-11.557	-4.567	30	Pass
802.11n40	5755	-12.994	-6.004	30	Pass
	5795	-13.809	-6.819	30	Pass
802.11ac20	5745	-9.494	-2.504	30	Pass
	5785	-10.154	-3.164	30	Pass
	5825	-11.395	-4.405	30	Pass
802.11ac40	5755	-12.613	-5.623	30	Pass
	5795	-13.553	-6.563	30	Pass
802.11ac80	5775	-16.322	-9.332	30	Pass

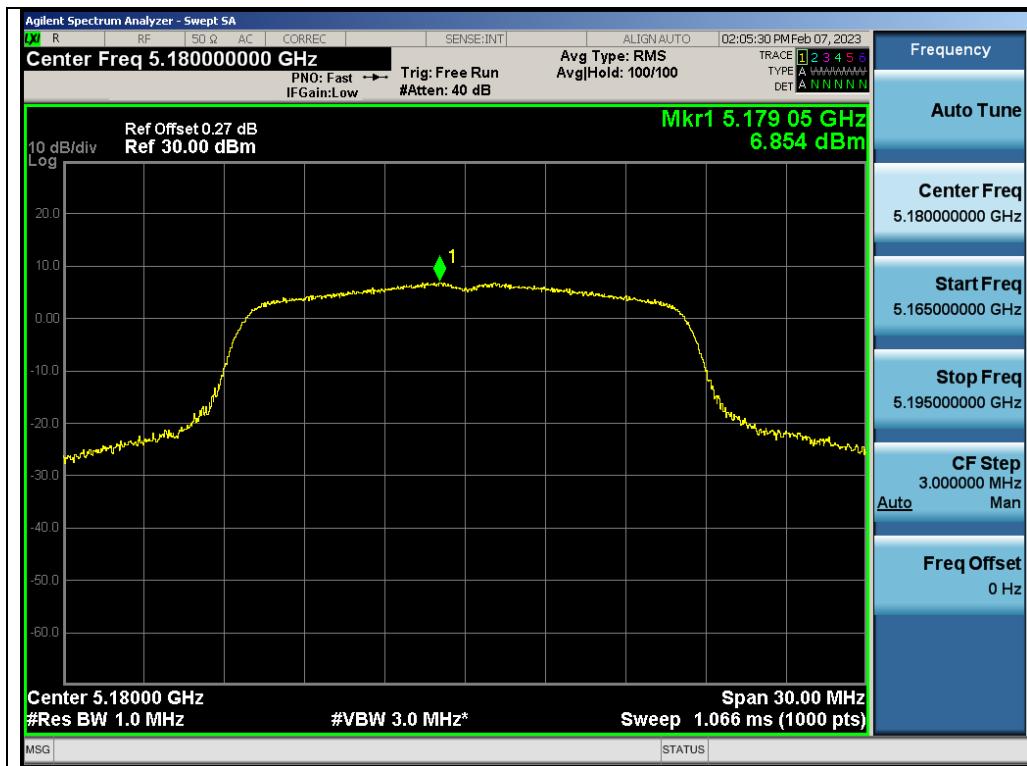
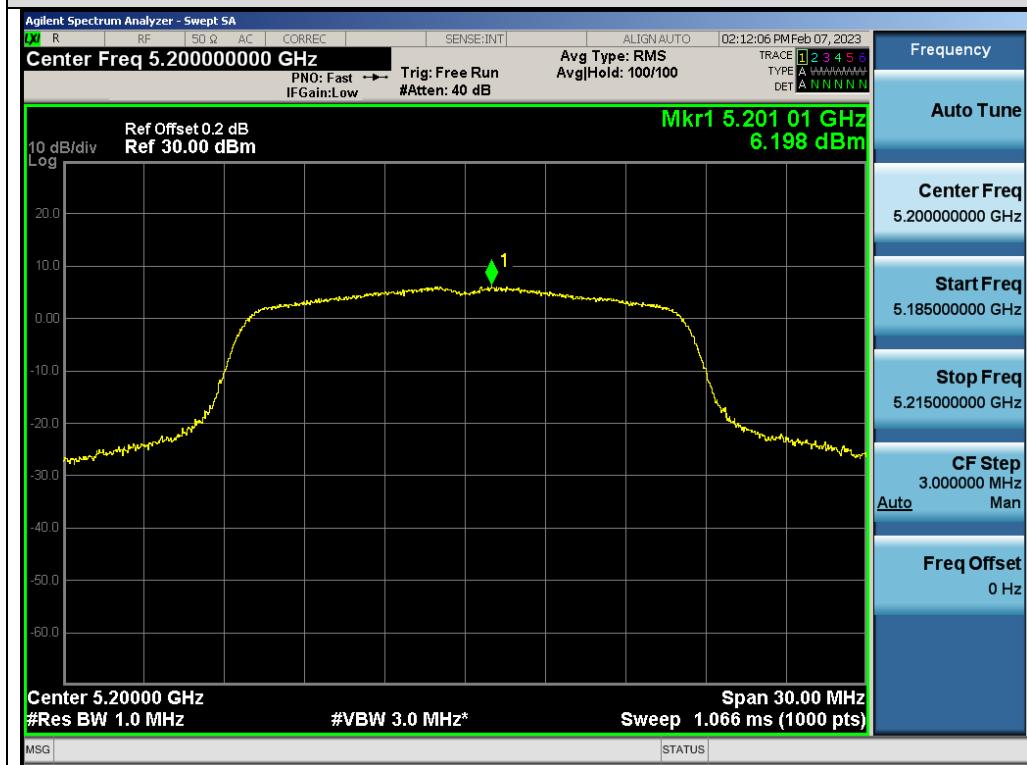
Note: Power density(dBm/500kHz) = Power density(dBm/100kHz) +10*log(500/100).

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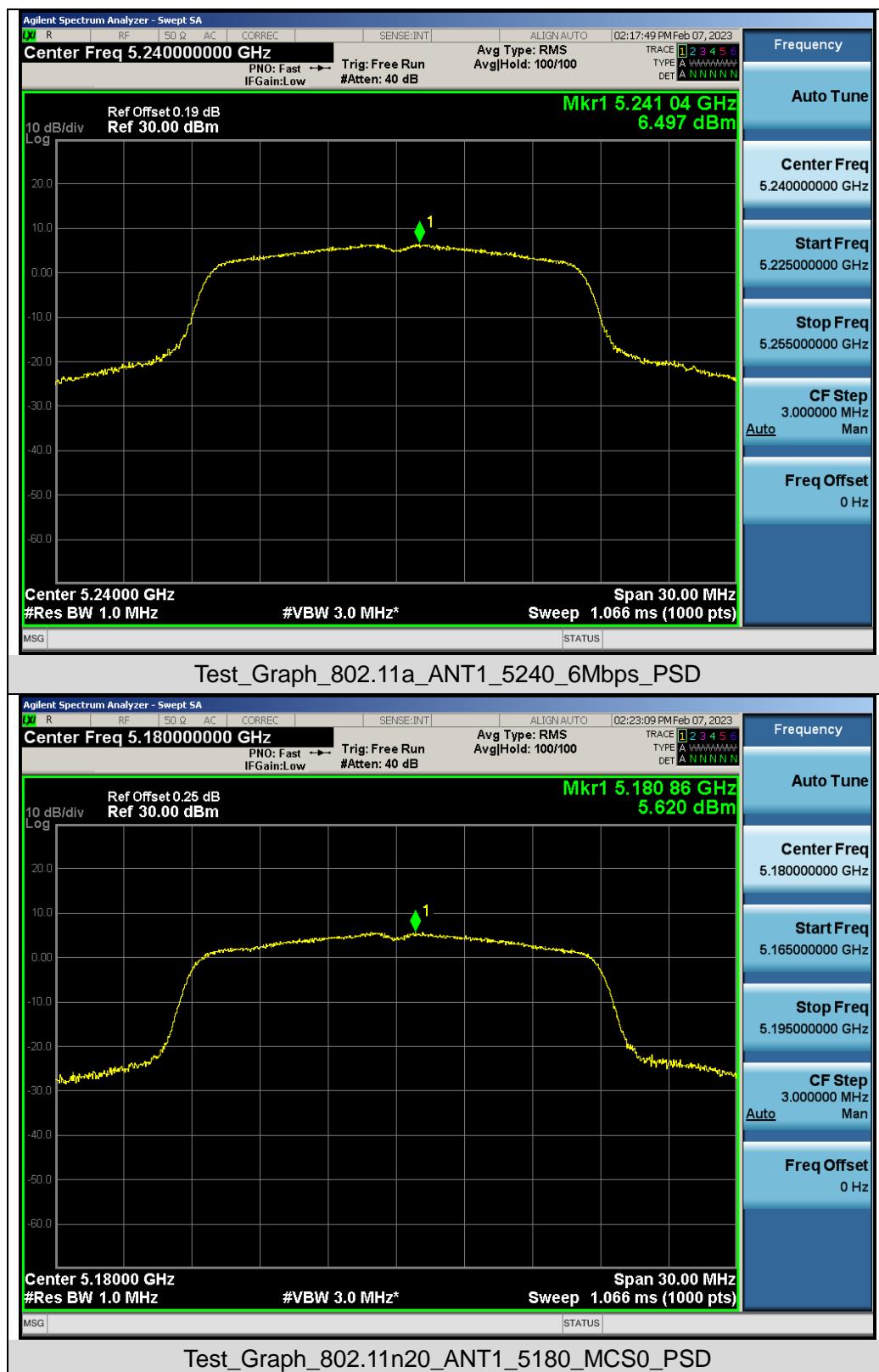
Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz

Test_Graph_802.11a_ANT1_5180_6Mbps_PSD

Test_Graph_802.11a_ANT1_5200_6Mbps_PSD

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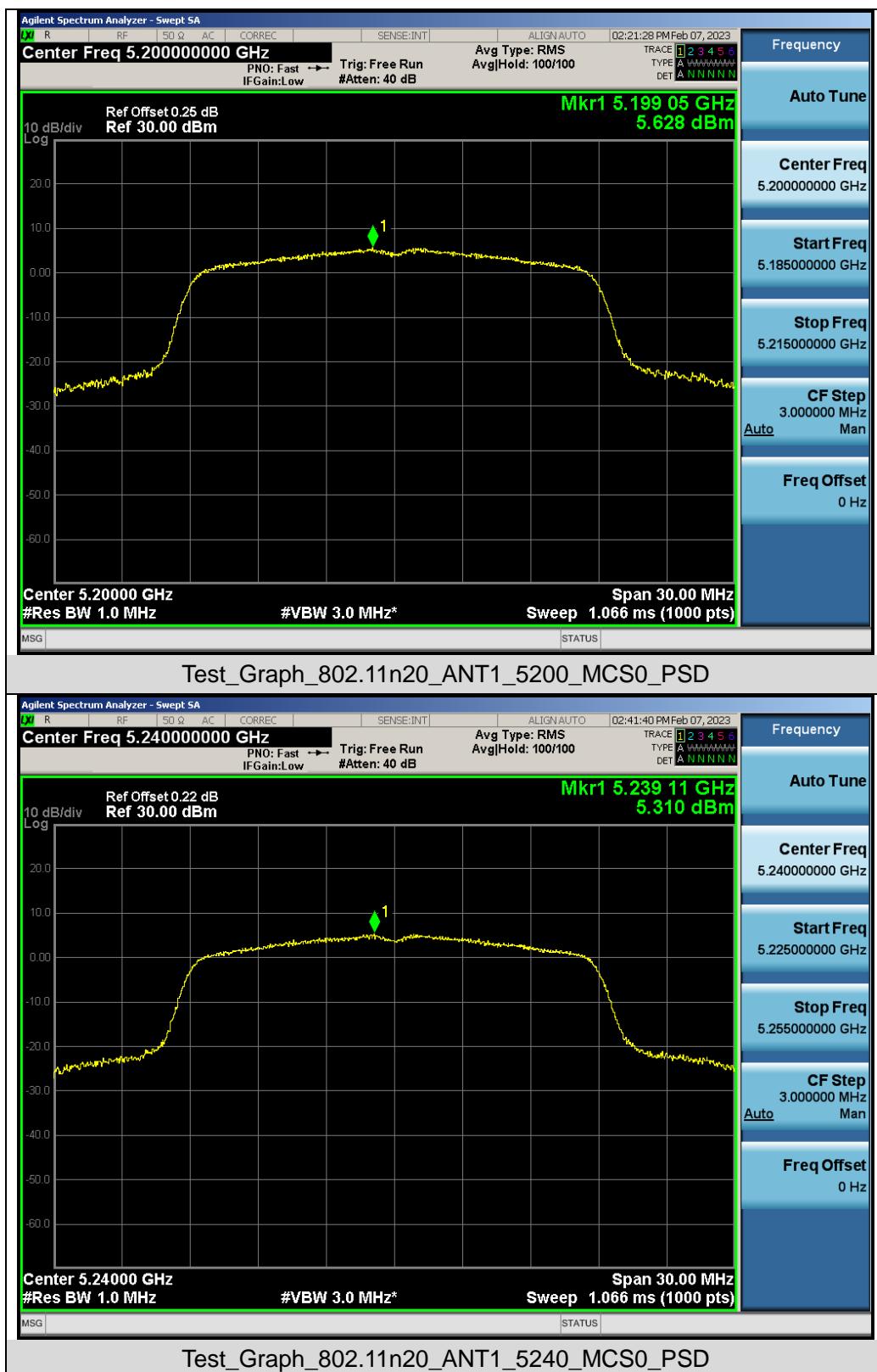


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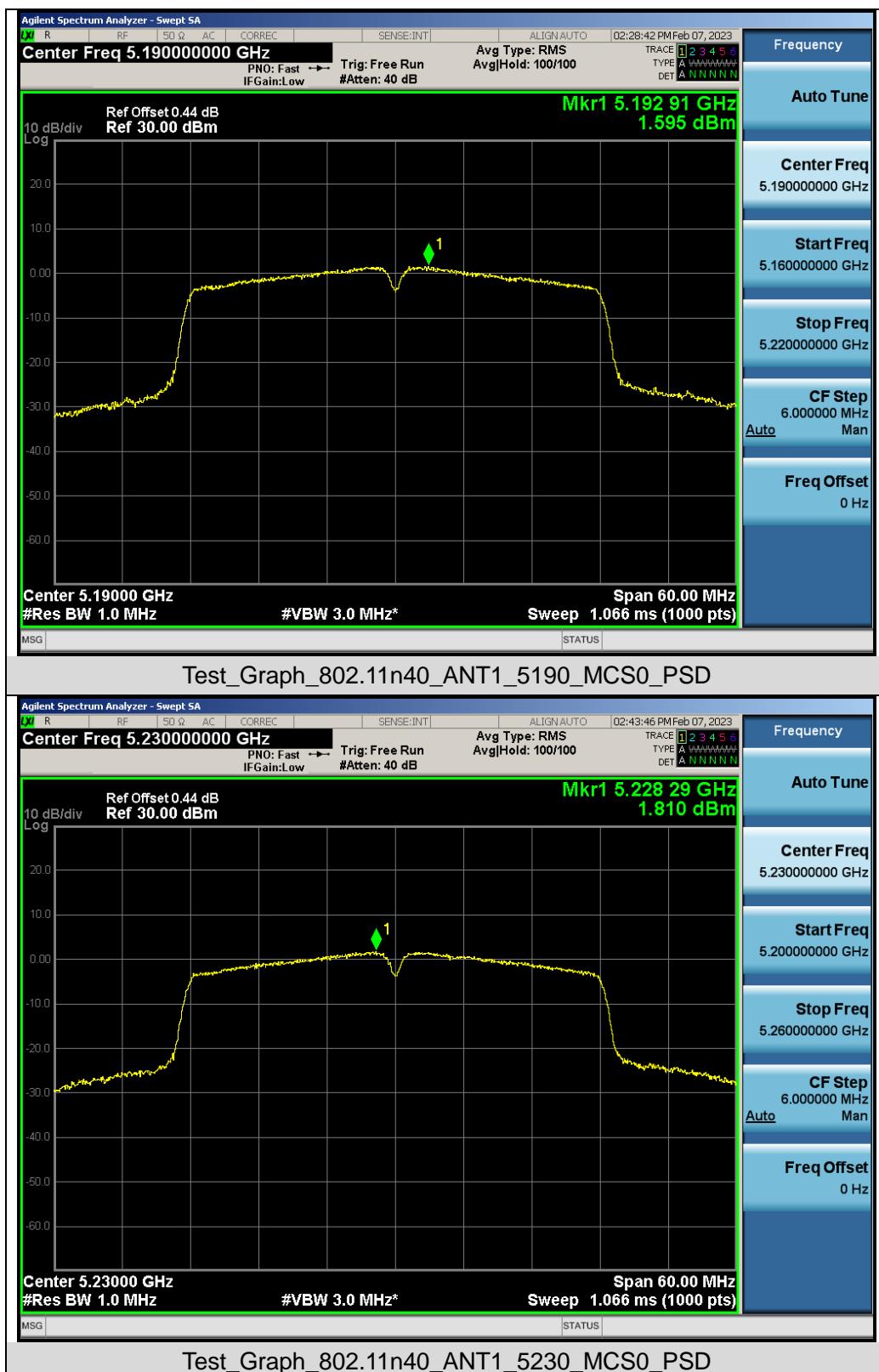


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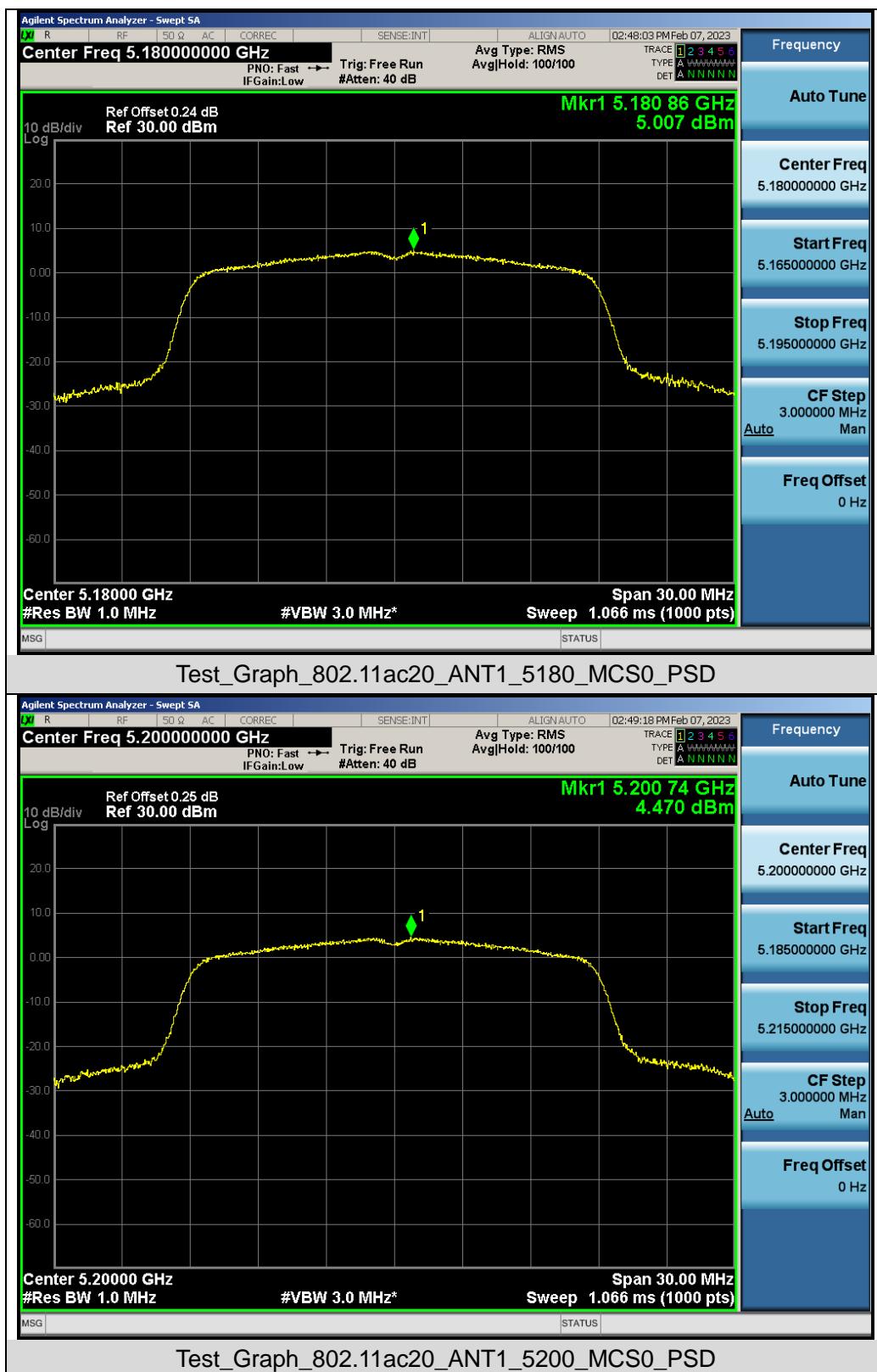


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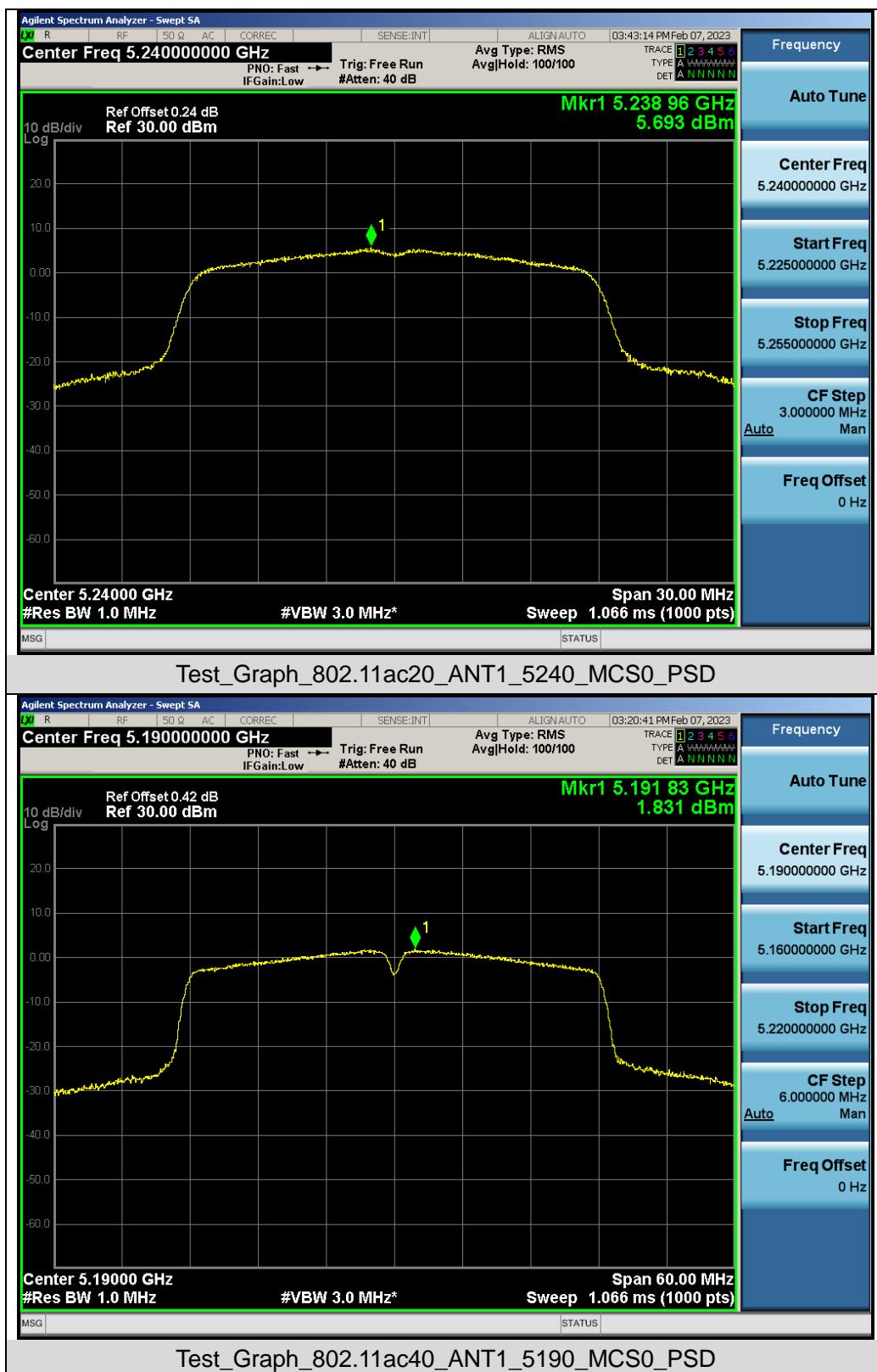


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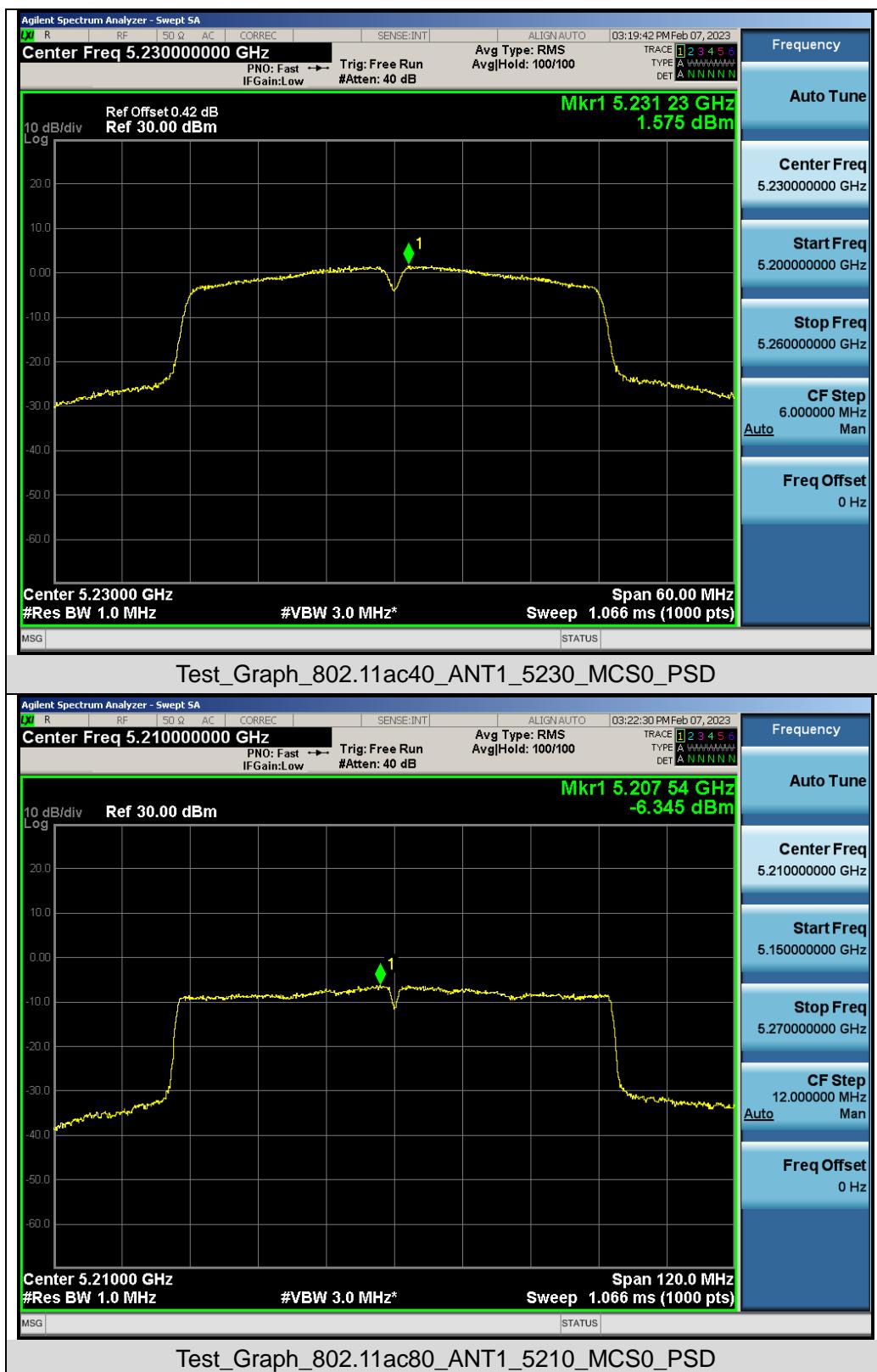


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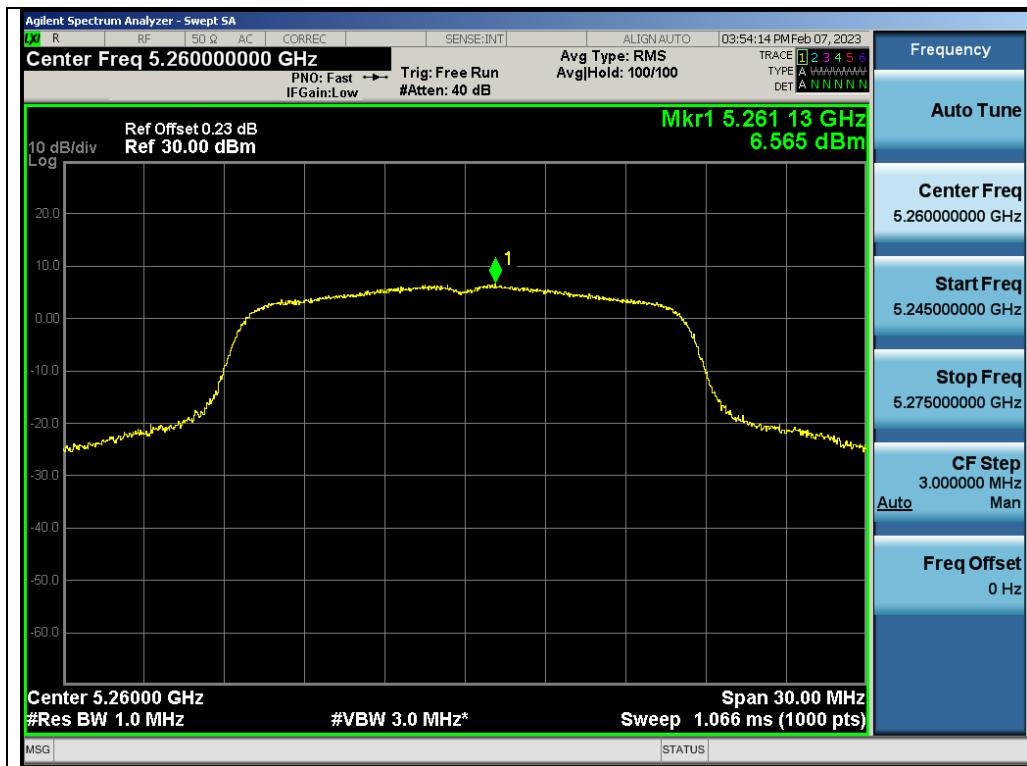
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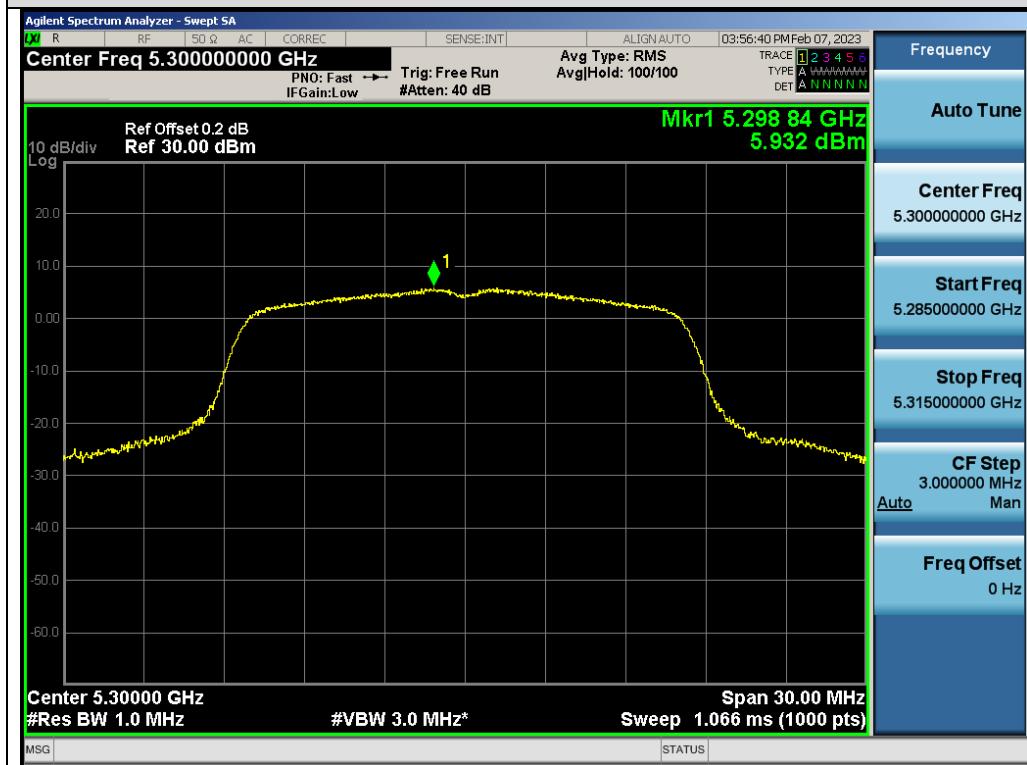
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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz



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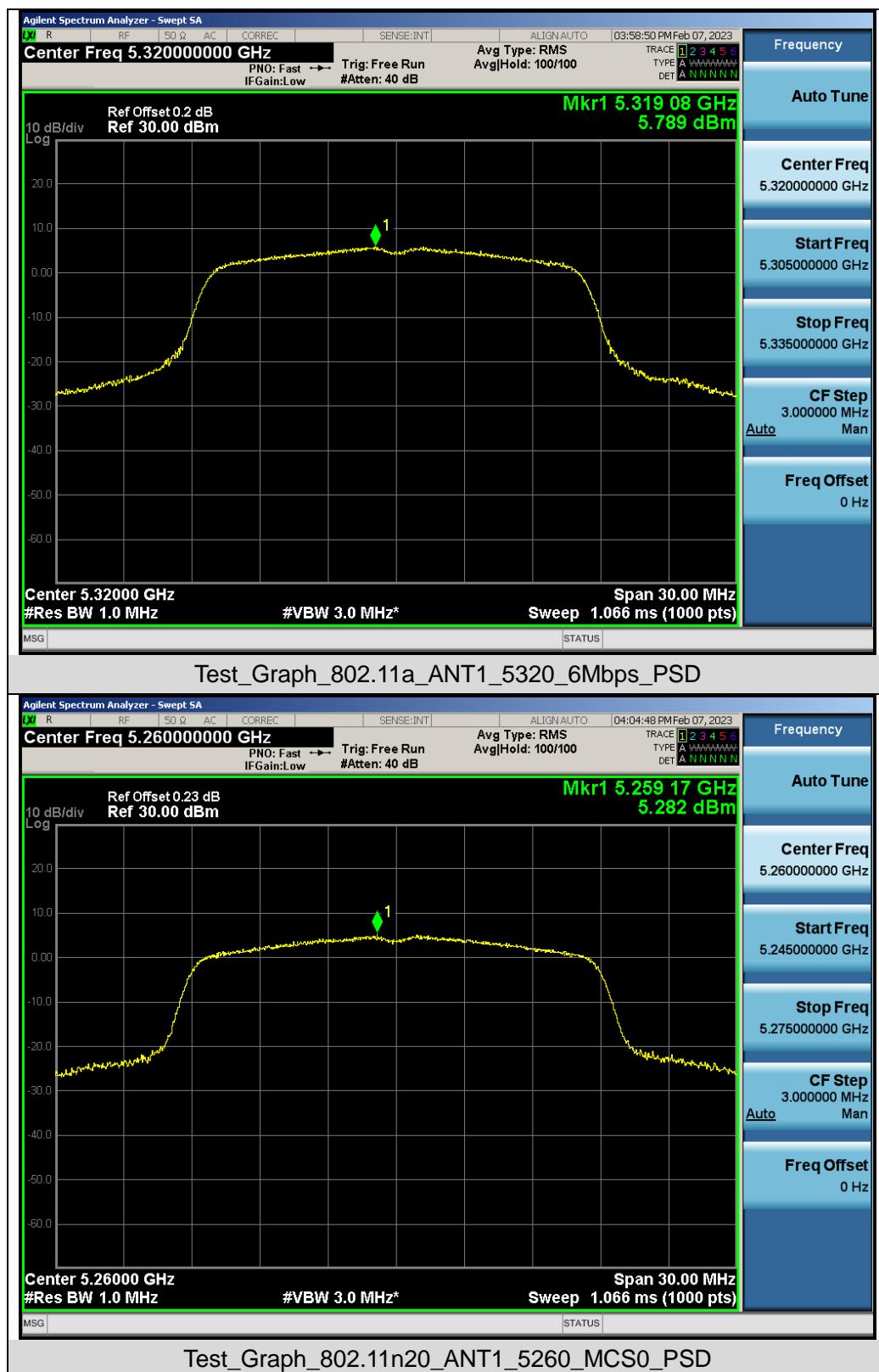
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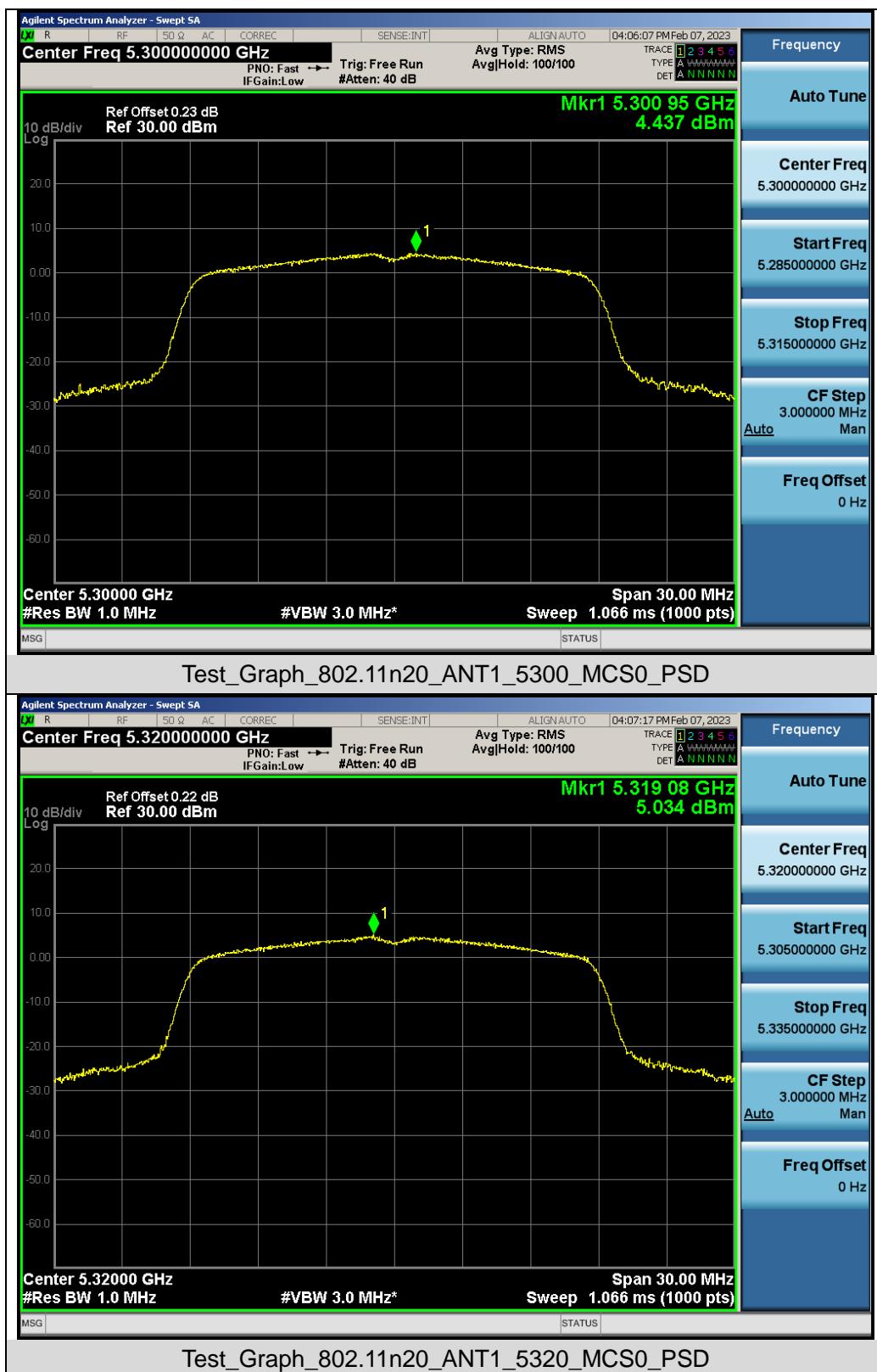


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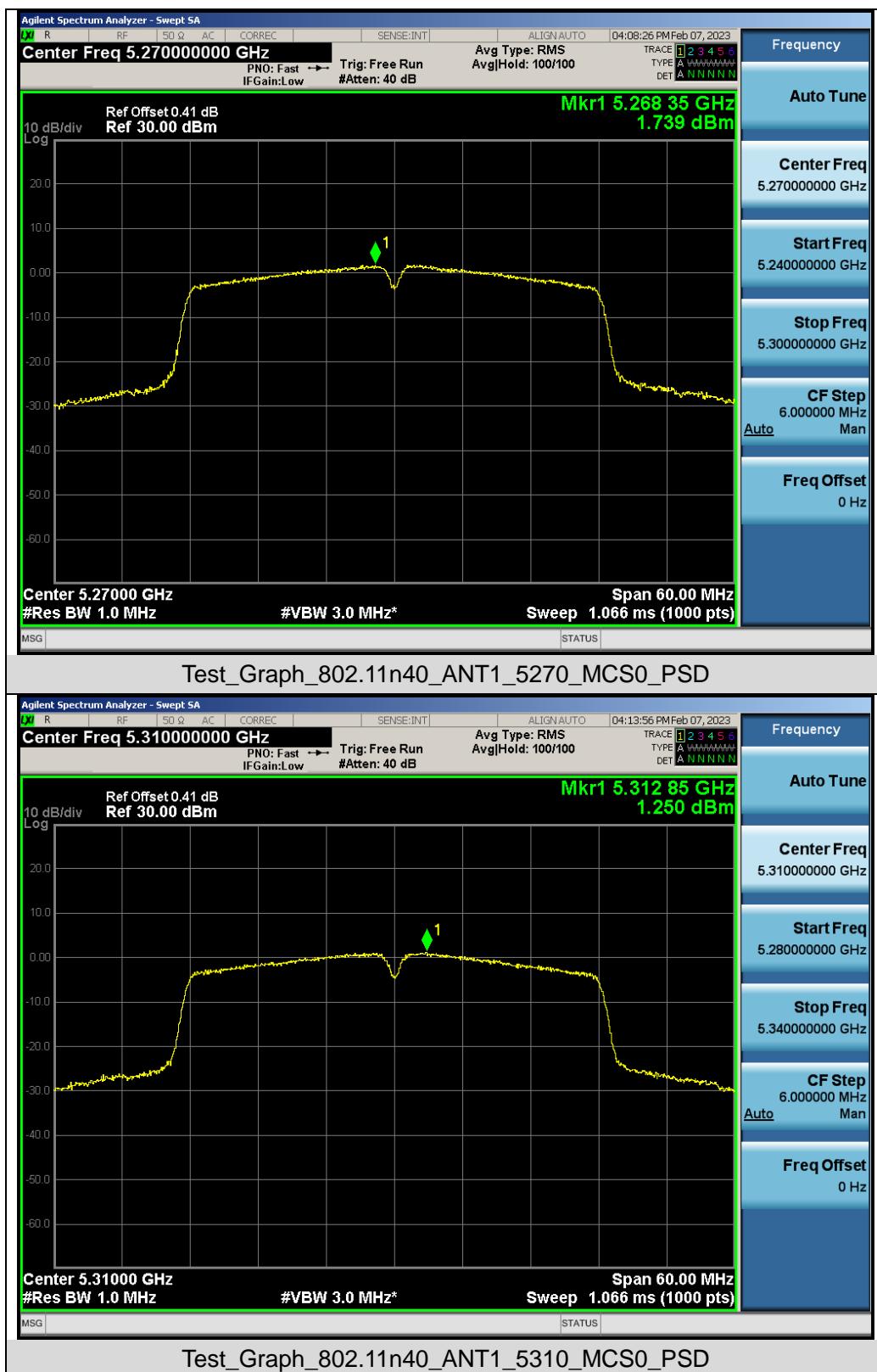


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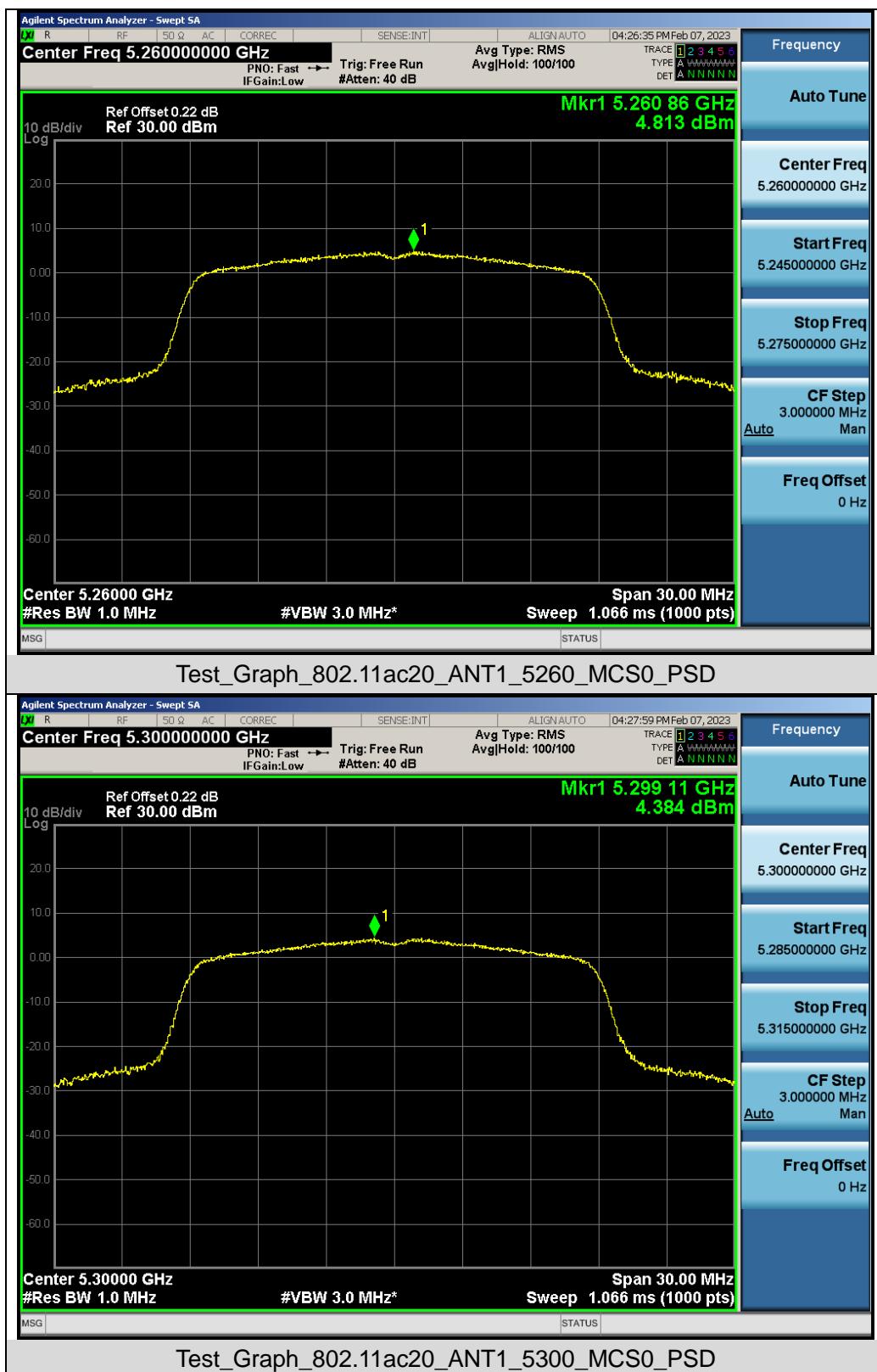


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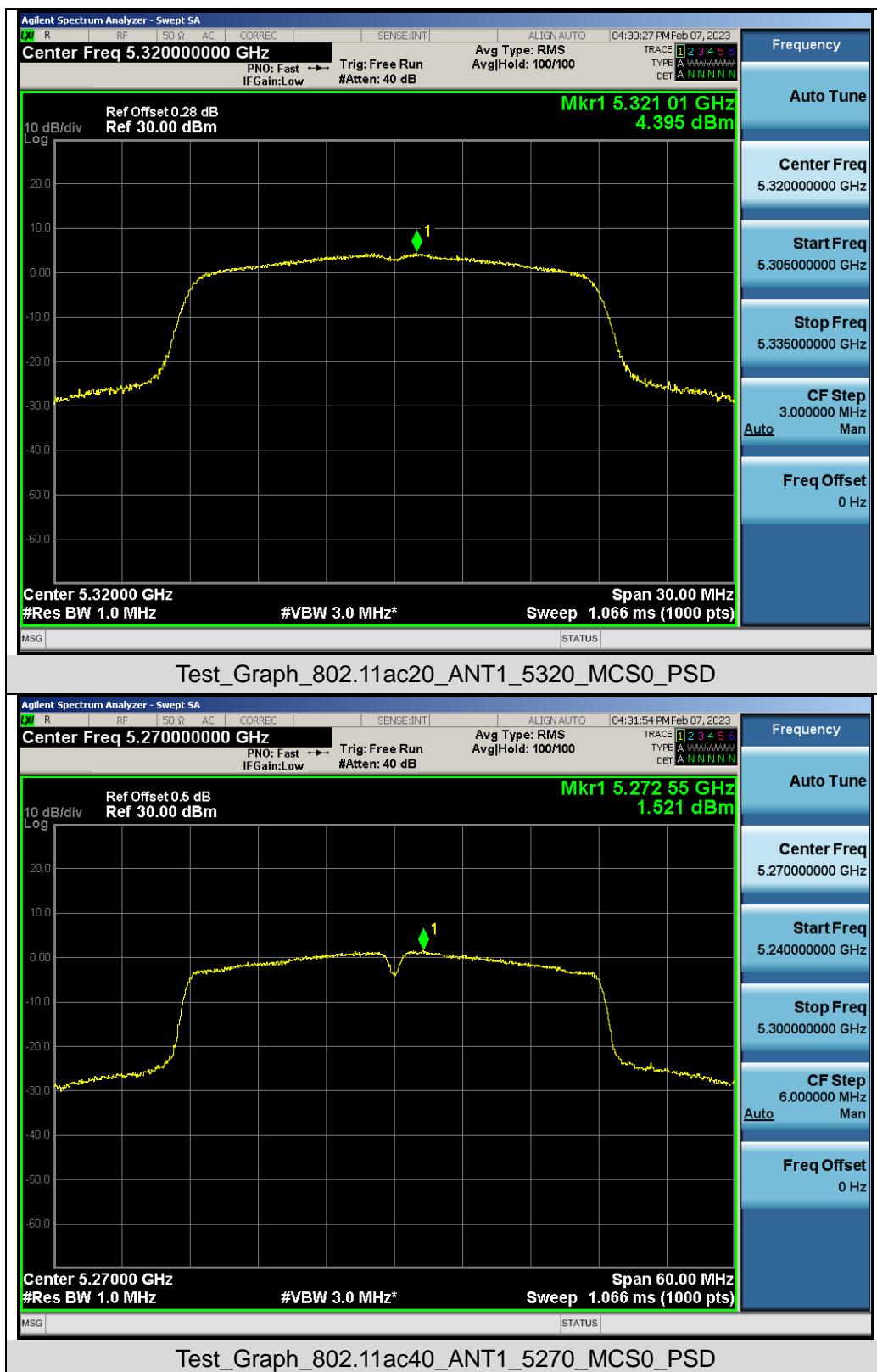


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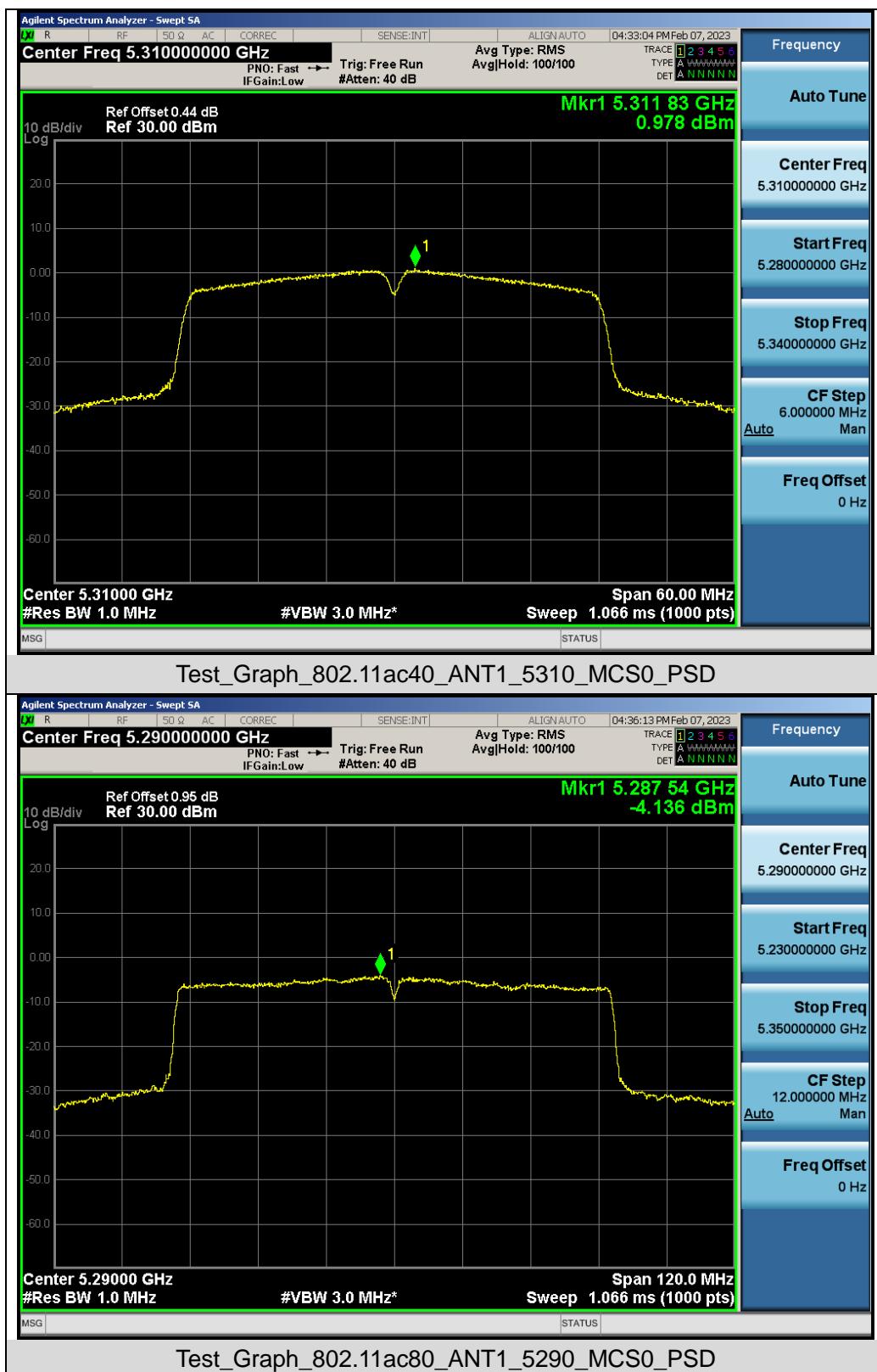


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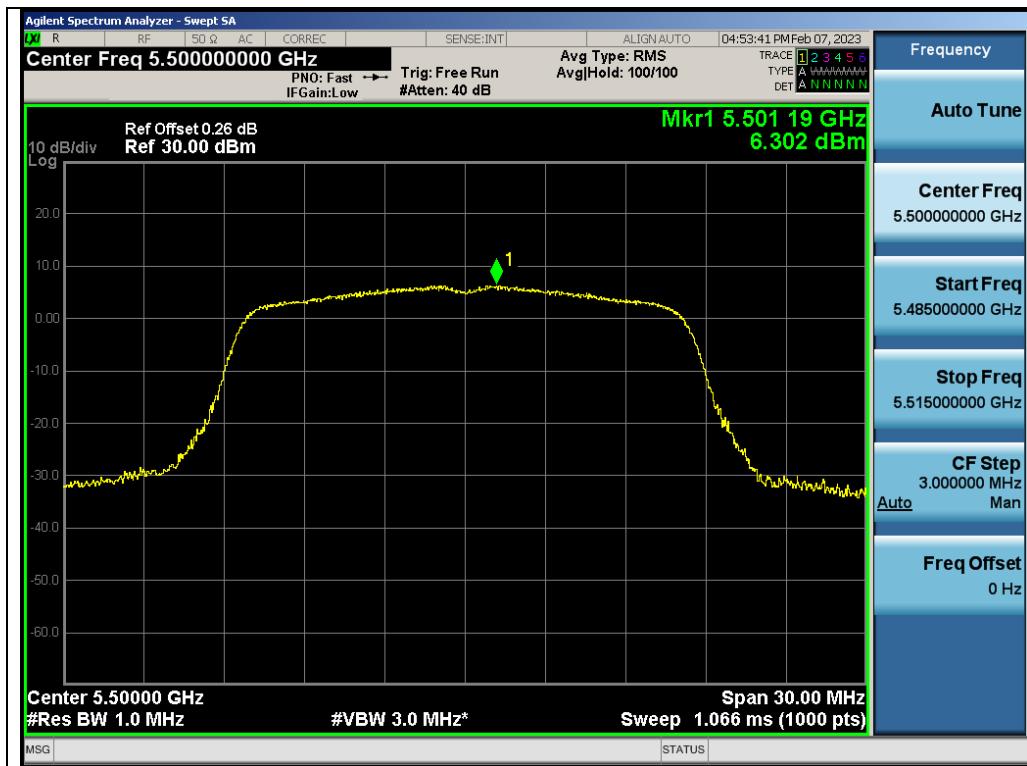


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Test Graphs of Conducted Output Power Spectral Density for band 5.47-5.725 GHz

Test_Graph_802.11a_ANT1_5500_6Mbps_PSD

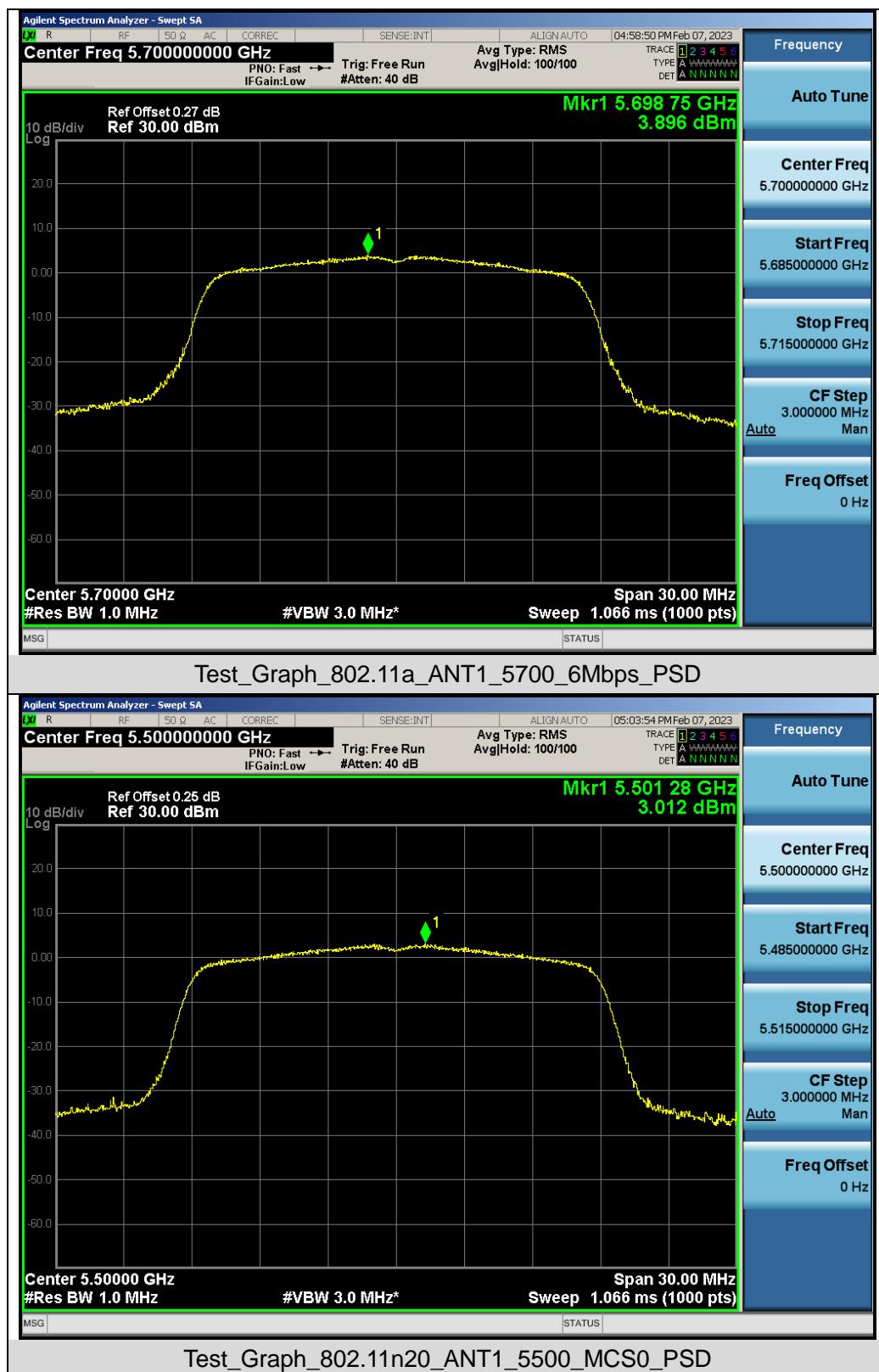
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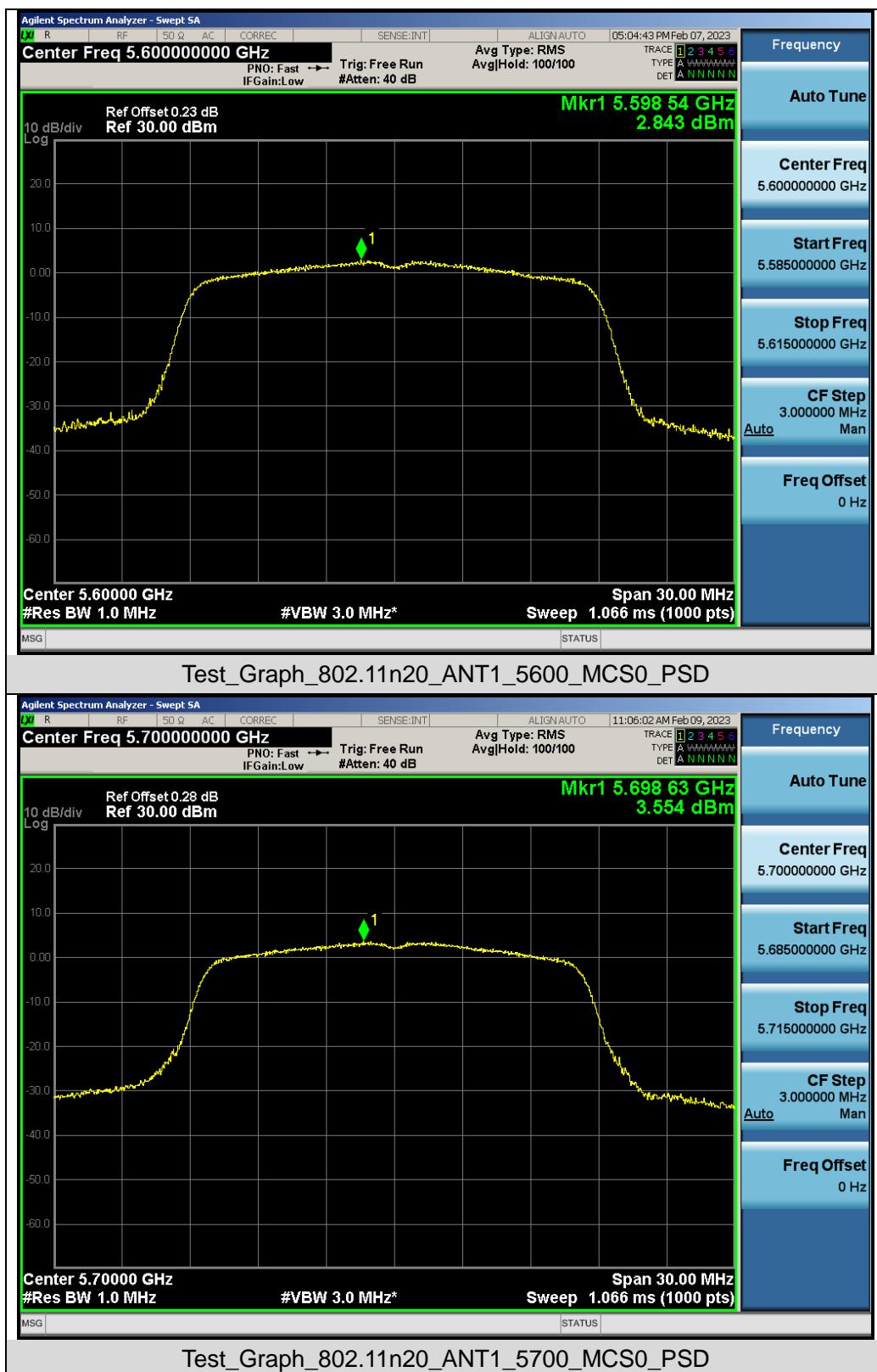


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