

FCC Test Report

Report No.: AGC12060210301FE06

FCC ID : 2AY4C-G34
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Mini PC
BRAND NAME : GEEKON
MODEL NAME : G34
APPLICANT : Shenzhen Jiteng Network Technology Co.,Ltd.
DATE OF ISSUE : May 06, 2021
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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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 06, 2021	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Jiteng Network Technology Co.,Ltd.
Address	No.1202, Bitian Pavilion, Bzhong Garden, No.10 Bibo First Street, Bibo Community, Huangbei Street, Luohu District, Shenzhen City
Manufacturer	Shenzhen Jiteng Network Technology Co.,Ltd.
Address	No.1202, Bitian Pavilion, Bzhong Garden, No.10 Bibo First Street, Bibo Community, Huangbei Street, Luohu District, Shenzhen City
Factory	Shenzhen Jiteng Network Technology Co., Ltd.
Address	No.1202, Bitian Pavilion, Bzhong Garden, No.10 Bibo First Street, Bibo Community, Huangbei Street, Luohu District, Shenzhen City
Product Designation	Mini PC
Brand Name	GEEKON
Test Model	G34
Date of test	Mar. 02, 2021~May 6, 2021
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



Donjon Huang
(Project Engineer)

May 6, 2021

Reviewed By



Calvin Liu
(Reviewer)

May 6, 2021

Approved By



Forrest Lei
Authorized Officer

May 6, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Mini PC". 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

Operation Frequency	5150 MHz~5250MHz; 5250 MHz~5350 MHz; 5470 MHz~5725 MHz; 5725 MHz~5850MHz
Output Power	IEEE 802.11a20:17.82dBm; IEEE 802.11n(20):13.03dBm; IEEE802.11n(40):14.95dBm; IEEE 802.11ac(20):12.87dBm; IEEE 802.11ac(40):14.92dBm; IEEE 802.11ac(80):15.31dBm
Modulation	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM, OFDM
Number of channels	34
Hardware Version	MPC19&20_MB_V300
Software Version	NA
Antenna Designation	PIFA Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	Antenna 1:2.02dBi Antenna 2:2.02dBi
Power Supply	DC 12V

Note:

1. The EUT is designed as client operating device.
2. The device do not support TPC.
3. The maximum antenna gain is 2.02dBi, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

So: Directional gain = $G_{ANT} + \text{Array Gain} = 2.02\text{dBi} < 6\text{dBi}$

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2.2. TABLE OF CARRIER FREQUENCIES

Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11a IEEE 802.11n-HT20 IEEE 802.11ac-VHT20	5150 MHz to 5250 MHz	Channel 36	Channel 40	Channel 48
		5180 MHz	5200 MHz	5240 MHz
	5250 MHz to 5350 MHz	Channel 52	Channel 60	Channel 64
		5260 MHz	5300 MHz	5320 MHz
	5470 MHz to 5725 MHz	Channel 100	Channel 116	Channel 140
		5500 MHz	5580 MHz	5700 MHz
	5725 MHz to 5850 MHz	Channel 149	Channel 157	Channel 165
		5745 MHz	5785 MHz	5825 MHz
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40	5150 MHz to 5250 MHz	Channel 38	--	Channel 46
		5190 MHz	--	5230 MHz
	5250 MHz to 5350 MHz	Channel 54	--	Channel 62
		5270 MHz	--	5310 MHz
	5470 MHz to 5725 MHz	Channel 102	Channel 110	Channel 134
		5510 MHz	5550 MHz	5670 MHz
	5725 MHz to 5850 MHz	Channel 151	--	Channel 159
		5755 MHz	--	5795 MHz
IEEE 802.11ac-VHT80	5150 MHz to 5250 MHz	--	Channel 42	--
		--	5210 MHz	--
	5250 MHz to 5350 MHz	--	Channel 58	--
		--	5290 MHz	--
	5470 MHz to 5725 MHz	Channel 106	Channel 122	--
		5530 MHz	5610 MHz	--
	5725 MHz to 5850 MHz	--	Channel 155	--
		--	5775 MHz	--

Note: For 20MHZ bandwidth system use Channel 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140, 149, 153, 157, 161, 165; For 40MHZ bandwidth system use Channel 38, 46, 54, 62, 102, 110, 134, 151, 159. For 80MHZ bandwidth system use Channel 42, 58, 106, 122, 155.

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

This submittal(s) (test report) is intended for **FCC ID: 2AY4C-G34** 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	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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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, 149,153,157,161,165	36,40,48, 149,157,165	OFDM	6Mbps/MCS0
802.11n/ac40	38,46,151,159	38,46,151,159	OFDM	MCS0
802.11ac80	42,58,122,155	42,58,122,155	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.
3. The test software is theMP_Kit_RTL11ac_8821CE_PCIE_v5.00 which can set the EUT into the individual test modes.

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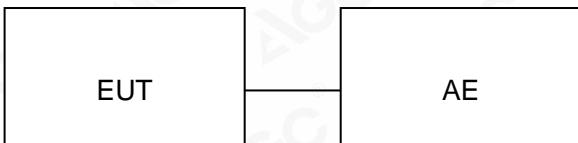
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Mini PC	G34	2AY4C-G34	EUT
2	Adapter	N/A	N/A	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	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03,2020	Jul. 02,2021
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	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
Power sensor	Agilent	U2021XA	MY54110007	Jun. 08, 2020	Jun. 07, 2021
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC(Ver.RA-03A)	N/A	N/A	N/A

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

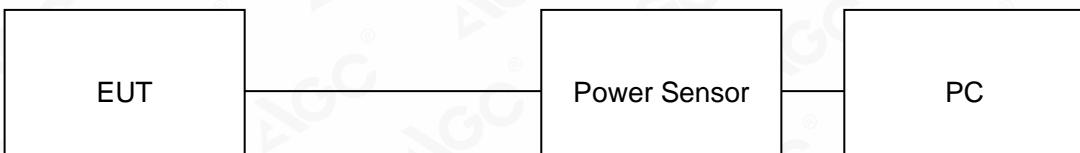
For average power test:

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 5.15GHz-5.25 GHz						
Test Mode	Test Channel (MHz)	Average Power(dBm)		Total Power MIMO_Ant1+2 (dBm)	Limits (dBm)	Pass or Fail
		Ant 1	Ant 2			
802.11a	5180	16.08	16.04	N/A	23.98	Pass
	5200	16.51	16.20	N/A	23.98	Pass
	5240	16.71	16.45	N/A	23.98	Pass
802.11n20	5180	12.09	11.82	14.97	23.98	Pass
	5200	12.33	11.75	15.06	23.98	Pass
	5240	12.12	12.49	15.32	23.98	Pass
802.11n40	5190	14.48	14.53	17.52	23.98	Pass
	5230	14.95	14.81	17.89	23.98	Pass
802.11ac20	5180	11.71	11.84	14.79	23.98	Pass
	5200	12.55	11.76	15.18	23.98	Pass
	5240	12.27	12.34	15.32	23.98	Pass
802.11ac40	5190	14.92	13.54	17.29	23.98	Pass
	5230	13.56	13.33	16.46	23.98	Pass
802.11ac80	5210	14.73	12.50	16.77	23.98	Pass

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Test Data of Conducted Output Power for band 5.250 GHz-5.350 GHz						
Test Mode	Test Channel (MHz)	Average Power(dBm)		Total Power MIMO_Ant1+2 (dBm)	Limits (dBm)	Pass or Fail
		Ant 1	Ant 2			
802.11a	5260	16.32	15.94	N/A	23.98	Pass
	5300	17.82	16.42	N/A	23.98	Pass
	5320	17.19	16.58	N/A	23.98	Pass
802.11n20	5260	12.05	11.59	14.84	23.98	Pass
	5300	12.94	12.78	15.87	23.98	Pass
	5320	13.03	12.73	15.89	23.98	Pass
802.11n40	5270	13.26	12.97	16.13	23.98	Pass
	5310	13.40	13.22	16.32	23.98	Pass
802.11ac20	5260	12.07	12.22	15.16	23.98	Pass
	5300	12.87	12.76	15.83	23.98	Pass
	5320	12.69	12.77	15.74	23.98	Pass
802.11ac40	5270	13.53	12.30	16.55	23.98	Pass
	5310	13.36	13.06	16.36	23.98	Pass
802.11ac80	5290	15.31	14.47	17.61	23.98	Pass

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Test Data of Conducted Output Power for band 5.470GHz-5.725 GHz						
Test Mode	Test Channel (MHz)	Average Power(dBm)		Total Power MIMO_Ant1+2 (dBm)	Limits (dBm)	Pass or Fail
		Ant 1	Ant 2			
802.11a	5500	15.42	15.86	N/A	23.98	Pass
	5600	14.16	13.27	N/A	23.98	Pass
	5700	12.51	11.87	N/A	23.98	Pass
802.11n20	5500	12.45	11.70	15.10	23.98	Pass
	5600	11.04	10.81	13.94	23.98	Pass
	5700	8.41	10.73	12.73	23.98	Pass
802.11n40	5510	12.54	13.67	16.15	23.98	Pass
	5590	11.91	12.66	15.31	23.98	Pass
802.11ac20	5670	10.70	11.57	14.17	23.98	Pass
	5500	12.45	12.59	15.53	23.98	Pass
	5600	11.32	11.40	14.37	23.98	Pass
802.11ac40	5700	10.12	8.91	12.57	23.98	Pass
	5510	12.72	12.37	15.56	23.98	Pass
802.11ac80	5610	11.68	10.86	14.30	23.98	Pass

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Test Data of Conducted Output Power for band 5.725GHz-5.850 GHz						
Test Mode	Test Channel (MHz)	Average Power(dBm)		Total Power MIMO_Ant1+2 (dBm)	Limits (dBm)	Pass or Fail
		Ant 1	Ant 2			
802.11a	5745	14.62	14.99	N/A	30	Pass
	5785	14.45	14.13	N/A	30	Pass
	5825	15.18	14.94	N/A	30	Pass
802.11n20	5745	10.89	11.96	14.47	30	Pass
	5785	12.18	11.62	14.92	30	Pass
	5825	11.42	11.61	14.53	30	Pass
802.11n40	5755	11.67	10.94	14.33	30	Pass
	5795	11.20	10.74	13.99	30	Pass
802.11ac20	5745	11.30	10.98	14.31	30	Pass
	5785	10.60	12.28	13.61	30	Pass
	5825	10.61	11.36	13.62	30	Pass
802.11ac40	5755	10.96	11.06	14.02	30	Pass
	5795	10.85	11.33	14.11	30	Pass
802.11ac80	5775	8.88	9.07	11.99	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:

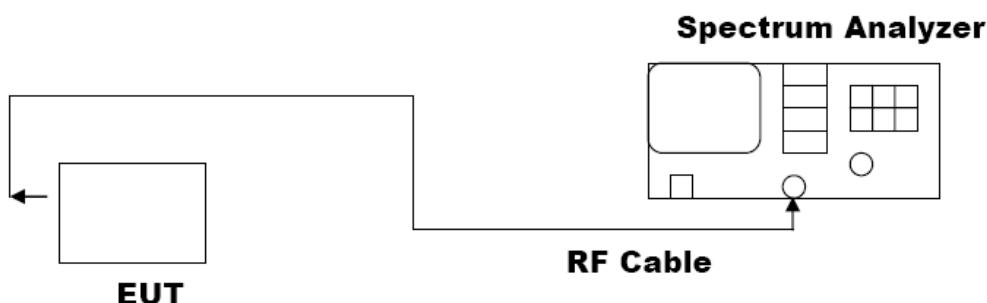
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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-Ant 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.522	20.323	N/A	Pass
	5200	16.540	20.294	N/A	Pass
	5240	16.538	20.935	N/A	Pass
802.11n20	5180	17.582	20.539	N/A	Pass
	5200	17.581	20.621	N/A	Pass
	5240	17.577	20.549	N/A	Pass
802.11n40	5190	36.156	41.823	N/A	Pass
	5230	36.135	41.932	N/A	Pass
802.11ac20	5180	17.599	20.764	N/A	Pass
	5200	17.604	20.696	N/A	Pass
	5240	17.602	20.804	N/A	Pass
802.11ac40	5190	36.160	41.557	N/A	Pass
	5230	36.158	41.540	N/A	Pass
802.11ac80	5210	75.443	81.222	N/A	Pass

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz-Ant 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5260	16.534	20.963	N/A	Pass
	5300	16.656	24.702	N/A	Pass
	5320	16.657	25.439	N/A	Pass
802.11n20	5260	17.581	20.570	N/A	Pass
	5300	17.573	20.417	N/A	Pass
	5320	17.571	20.455	N/A	Pass
802.11n40	5270	36.139	41.610	N/A	Pass
	5310	36.164	42.016	N/A	Pass
802.11ac20	5260	17.601	20.786	N/A	Pass
	5300	17.595	20.634	N/A	Pass
	5320	17.592	20.711	N/A	Pass
802.11ac40	5270	36.167	41.490	N/A	Pass
	5310	36.151	41.162	N/A	Pass
802.11ac80	5290	75.433	81.600	N/A	Pass

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Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz-Ant 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5500	16.521	20.118	N/A	Pass
	5600	16.511	20.288	N/A	Pass
	5700	16.508	20.322	N/A	Pass
802.11n20	5500	17.581	20.628	N/A	Pass
	5600	17.583	20.468	N/A	Pass
	5700	17.581	20.616	N/A	Pass
802.11n40	5510	36.149	41.794	N/A	Pass
	5590	36.138	41.953	N/A	Pass
802.11ac20	5670	36.158	41.559	N/A	Pass
	5500	17.605	20.737	N/A	Pass
	5600	17.592	20.706	N/A	Pass
802.11ac40	5700	17.586	20.800	N/A	Pass
	5510	36.140	41.434	N/A	Pass
802.11ac80	5610	75.431	81.059	N/A	Pass

Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz-Ant 1				
Test Mode	Test Channel (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.320	0.5	Pass
	5785	16.319	0.5	Pass
	5825	16.319	0.5	Pass
802.11n20	5745	17.049	0.5	Pass
	5785	16.979	0.5	Pass
	5825	17.033	0.5	Pass
802.11n40	5755	35.739	0.5	Pass
	5795	35.713	0.5	Pass
802.11ac20	5745	17.019	0.5	Pass
	5785	17.012	0.5	Pass
	5825	17.041	0.5	Pass
802.11ac40	5755	35.710	0.5	Pass
	5795	35.714	0.5	Pass
802.11ac80	5775	75.281	0.5	Pass

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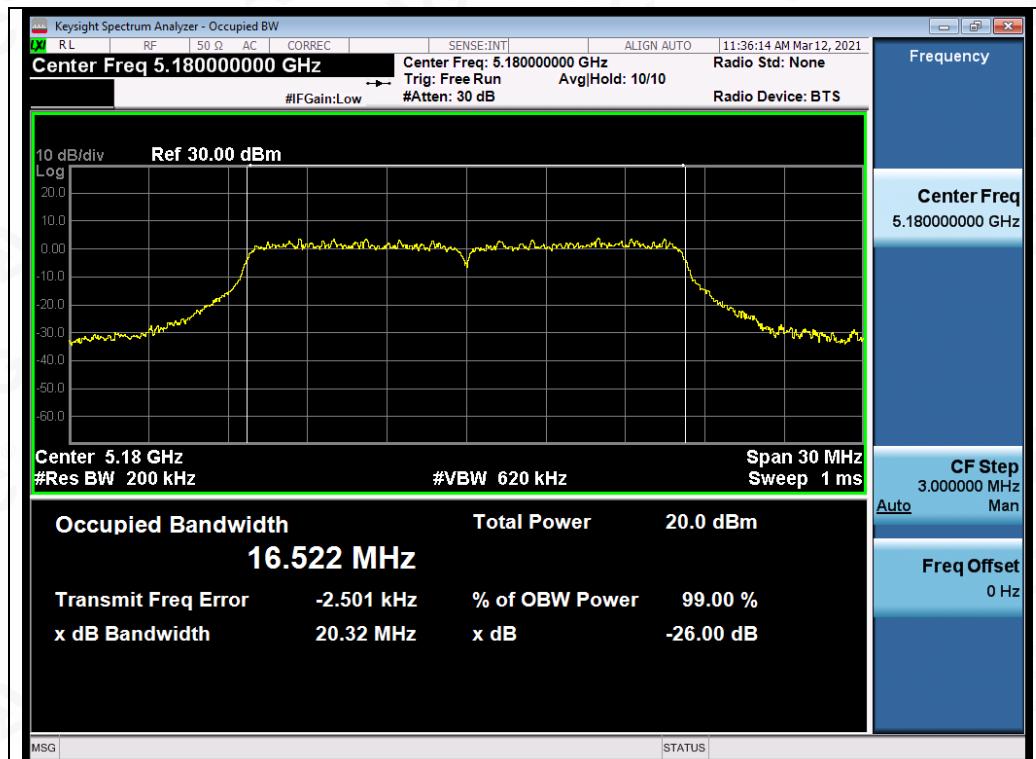
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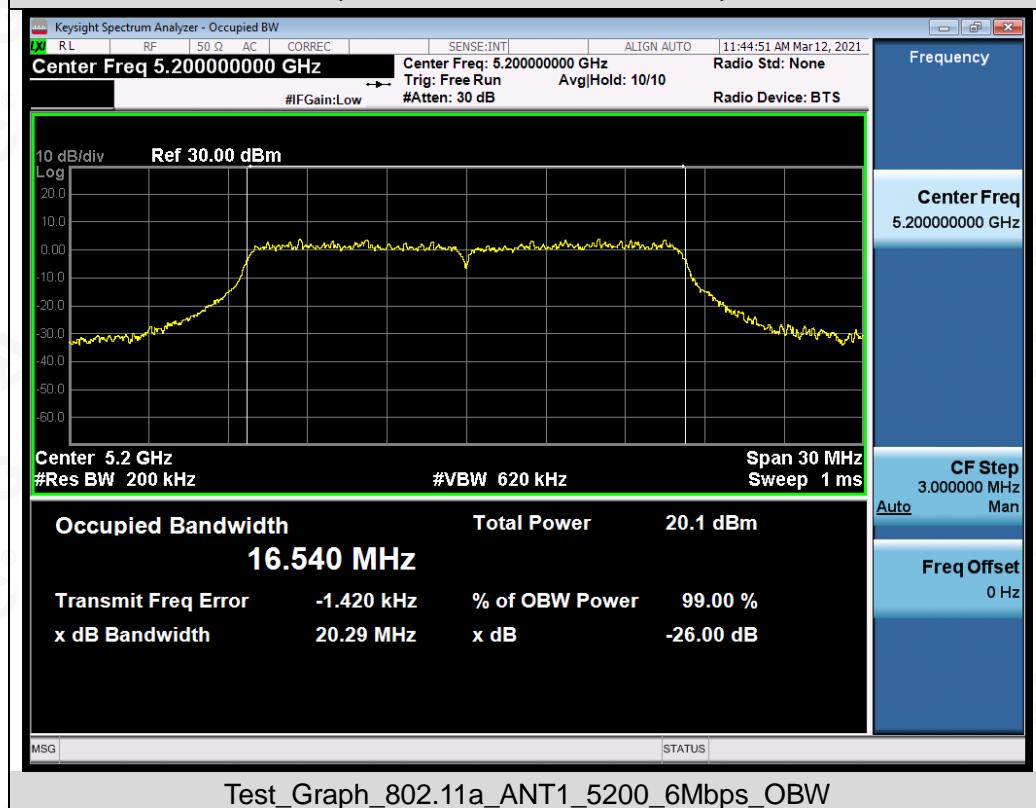
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_OBW



Test_Graph_802.11a_ANT1_5200_6Mbps_OBW

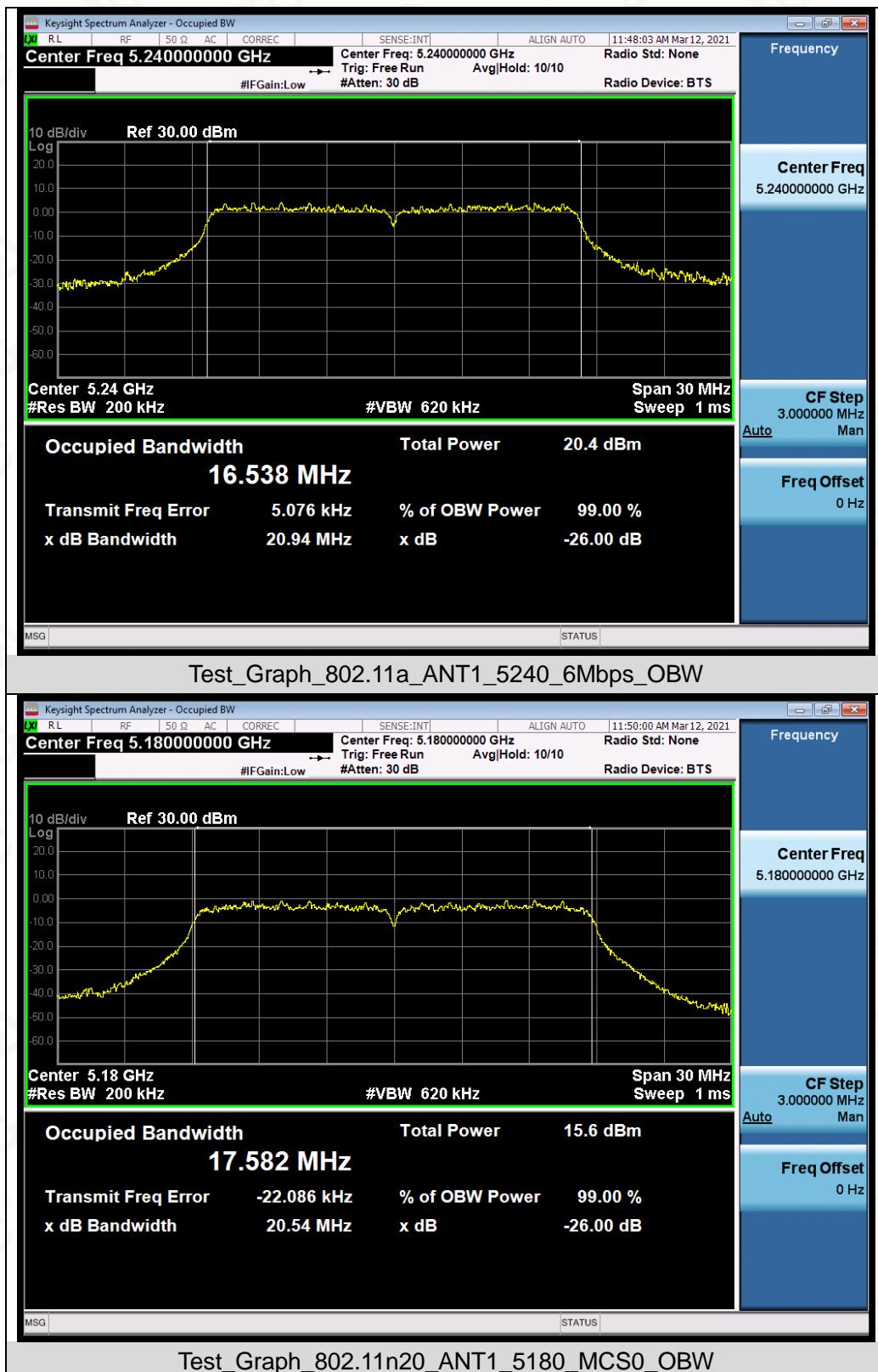
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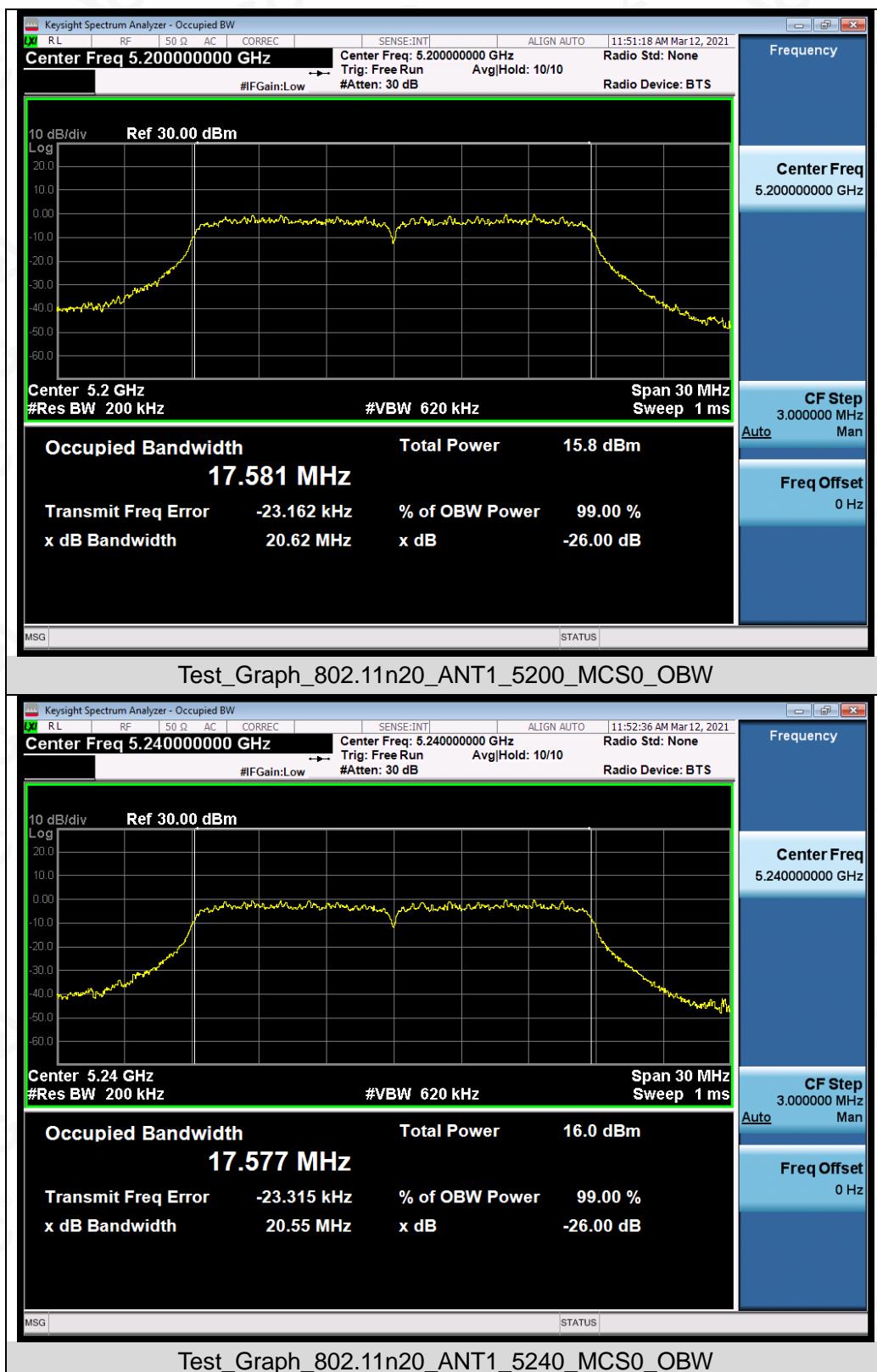
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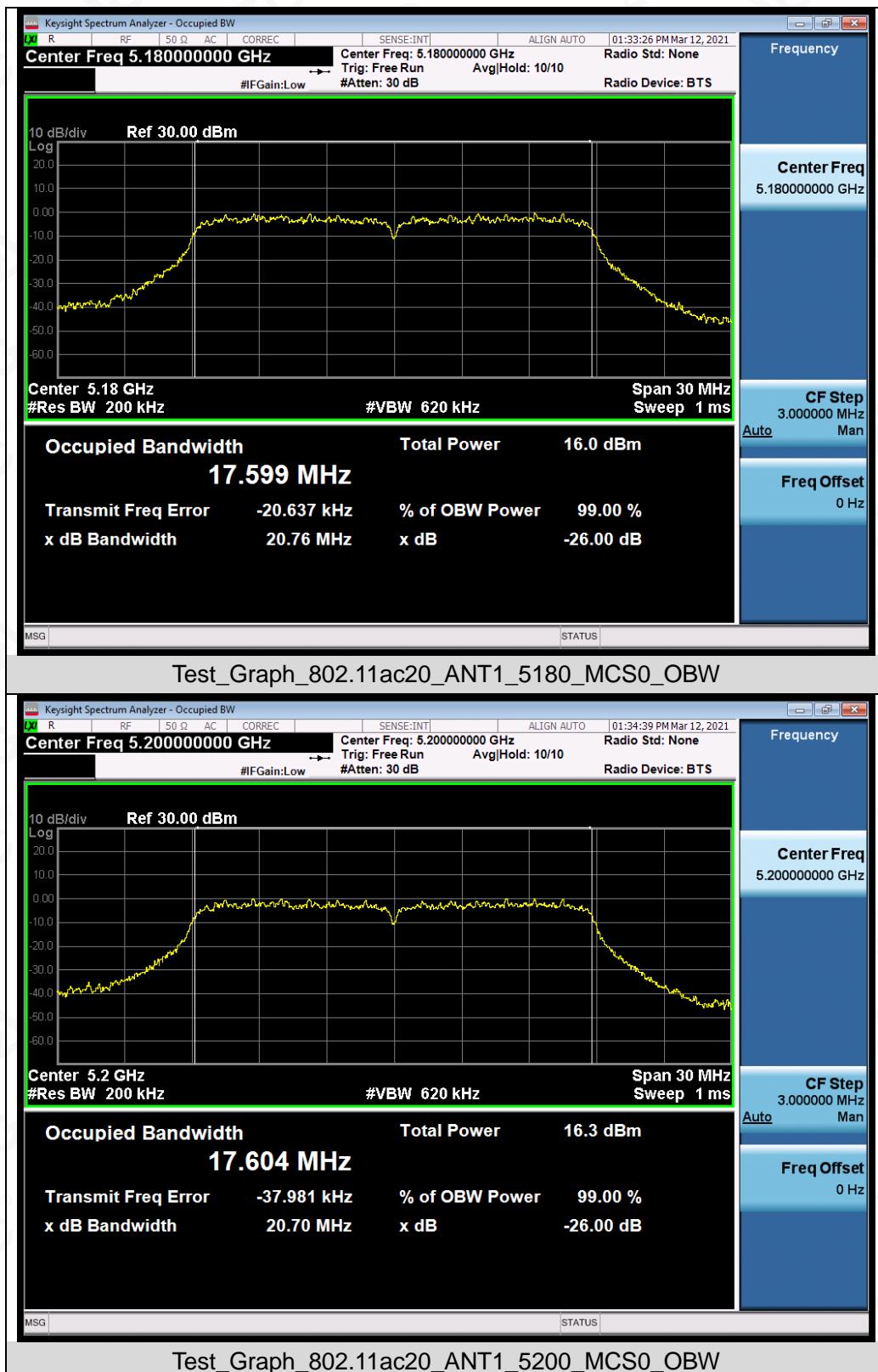
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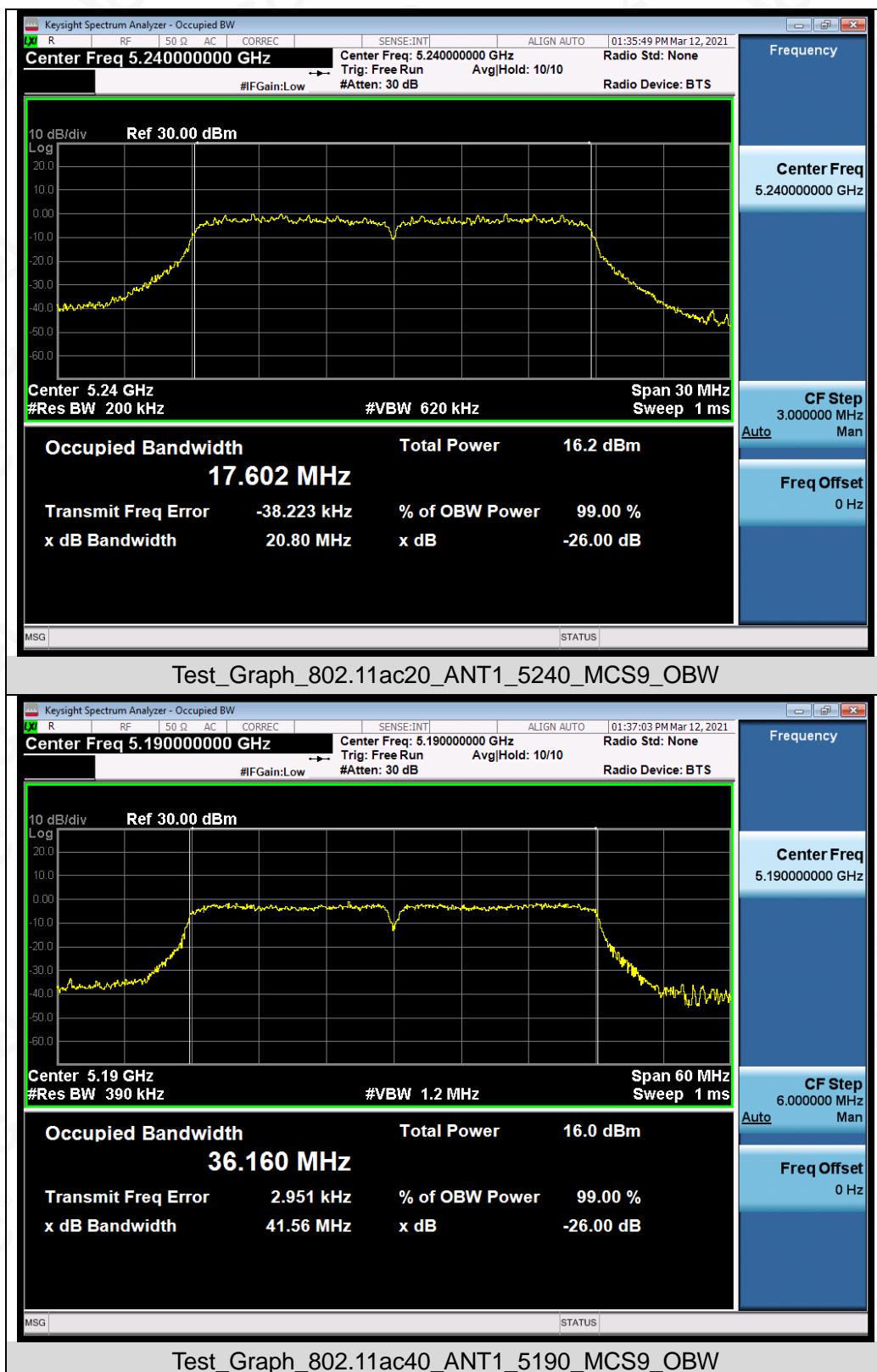
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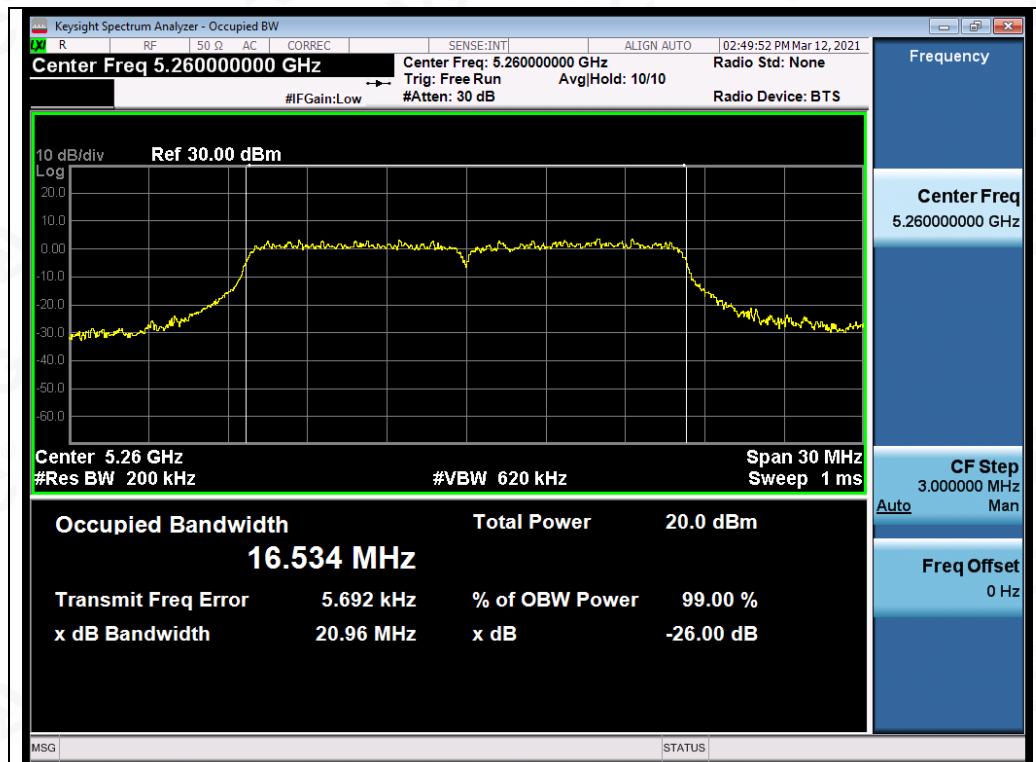
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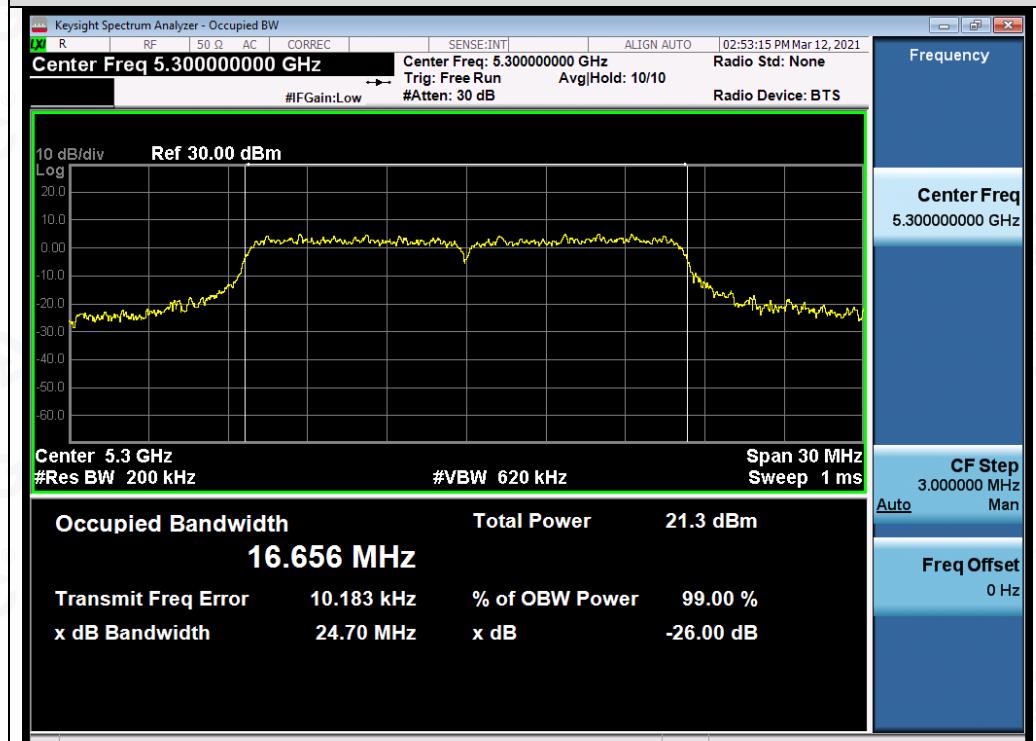
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.350 GHz



Test_Graph_802.11a_ANT1_5260_6Mbps_OBW



Test_Graph_802.11a_ANT1_5300_6Mbps_OBW

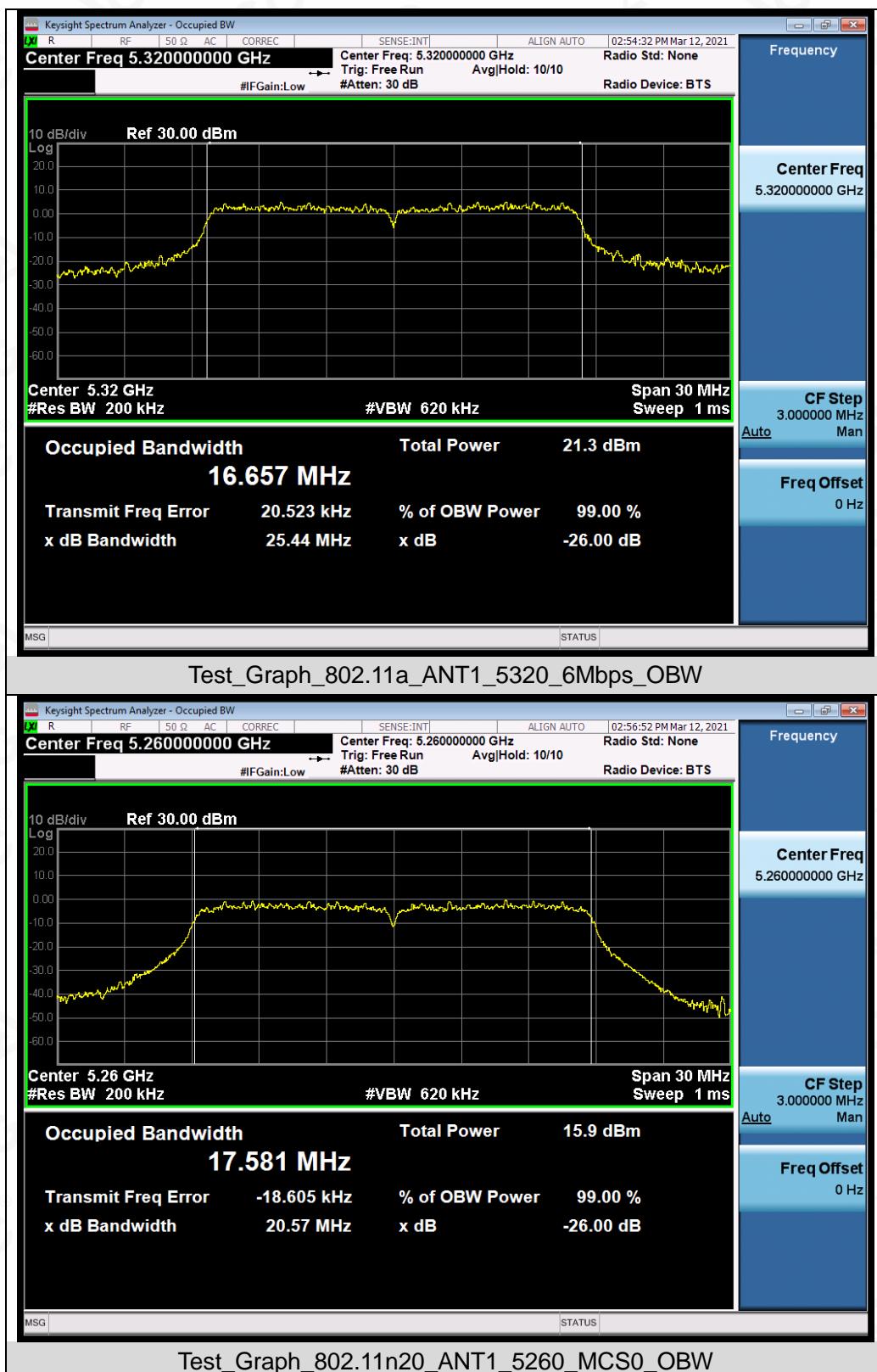
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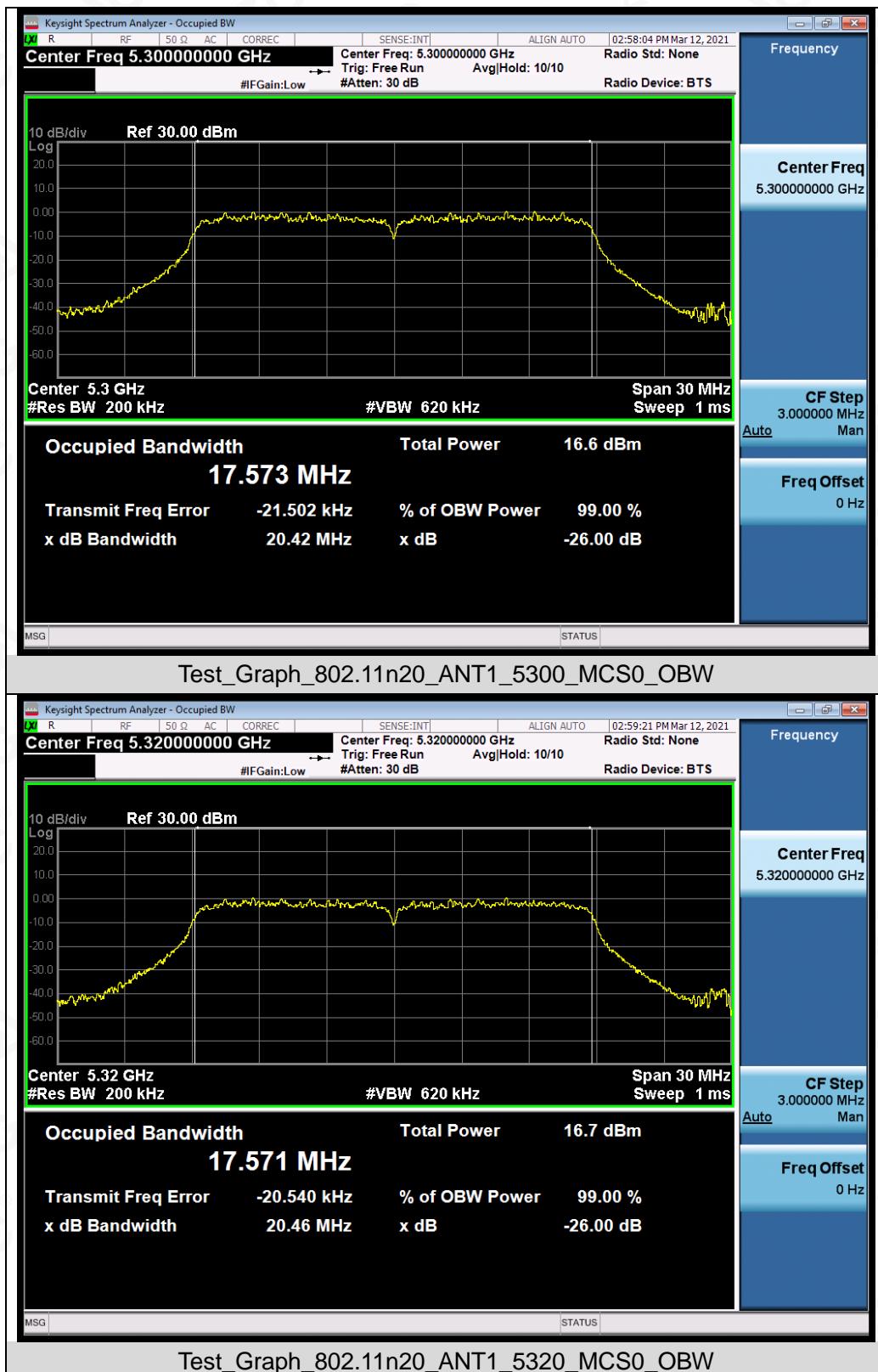
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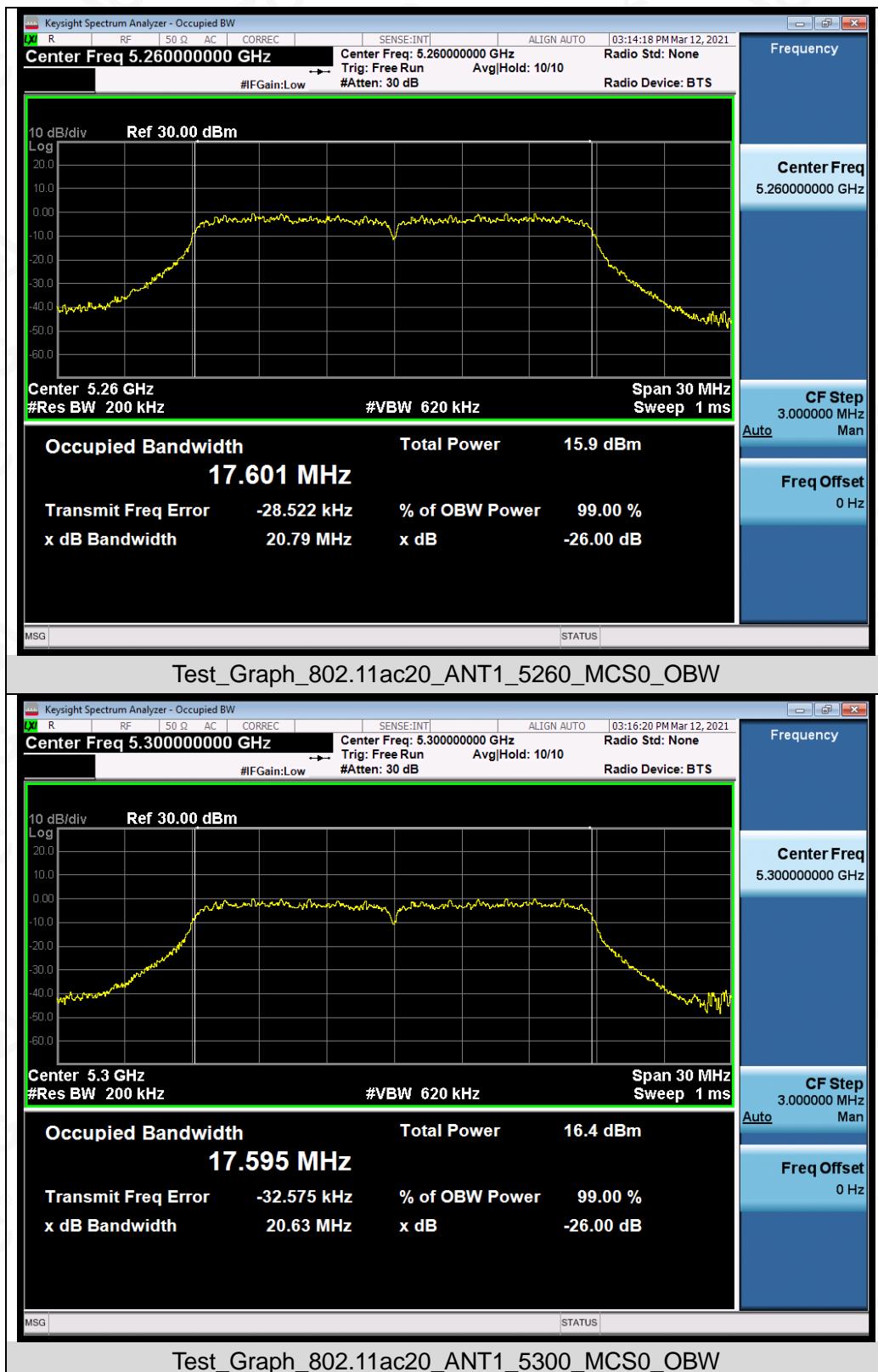
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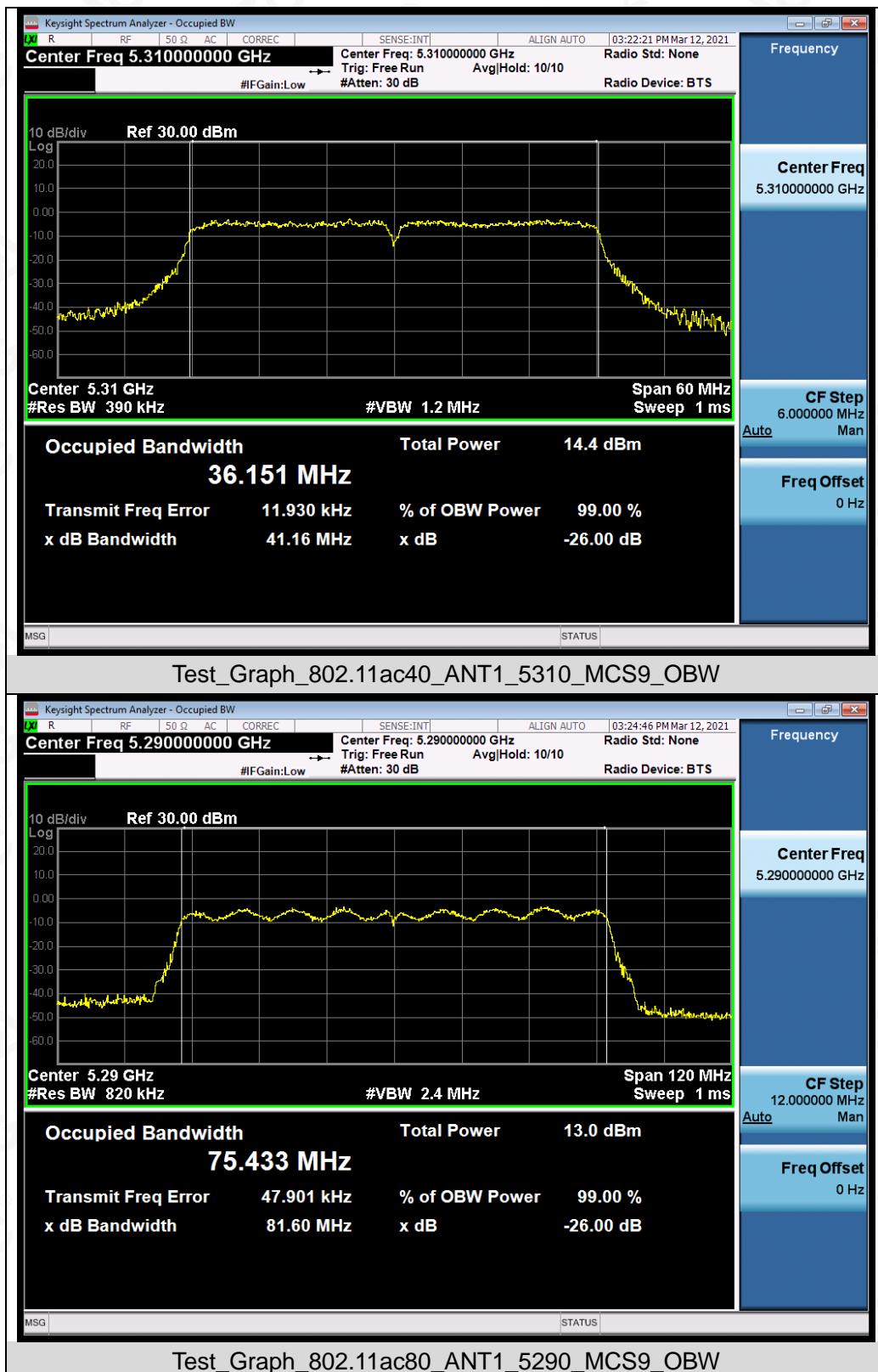
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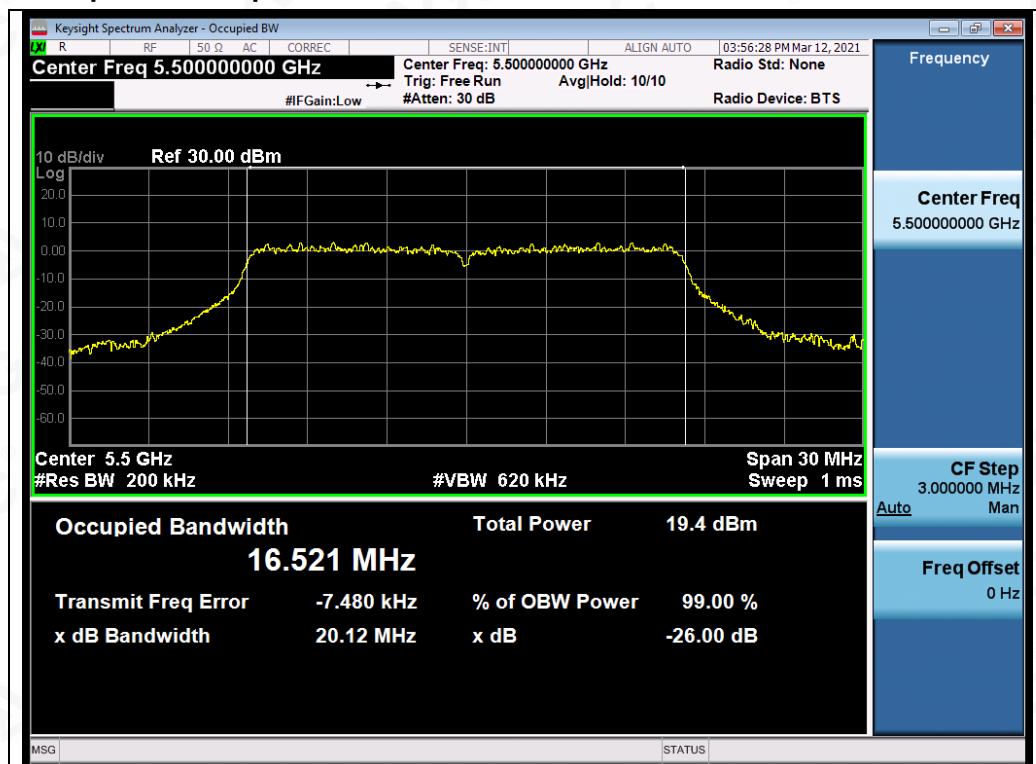
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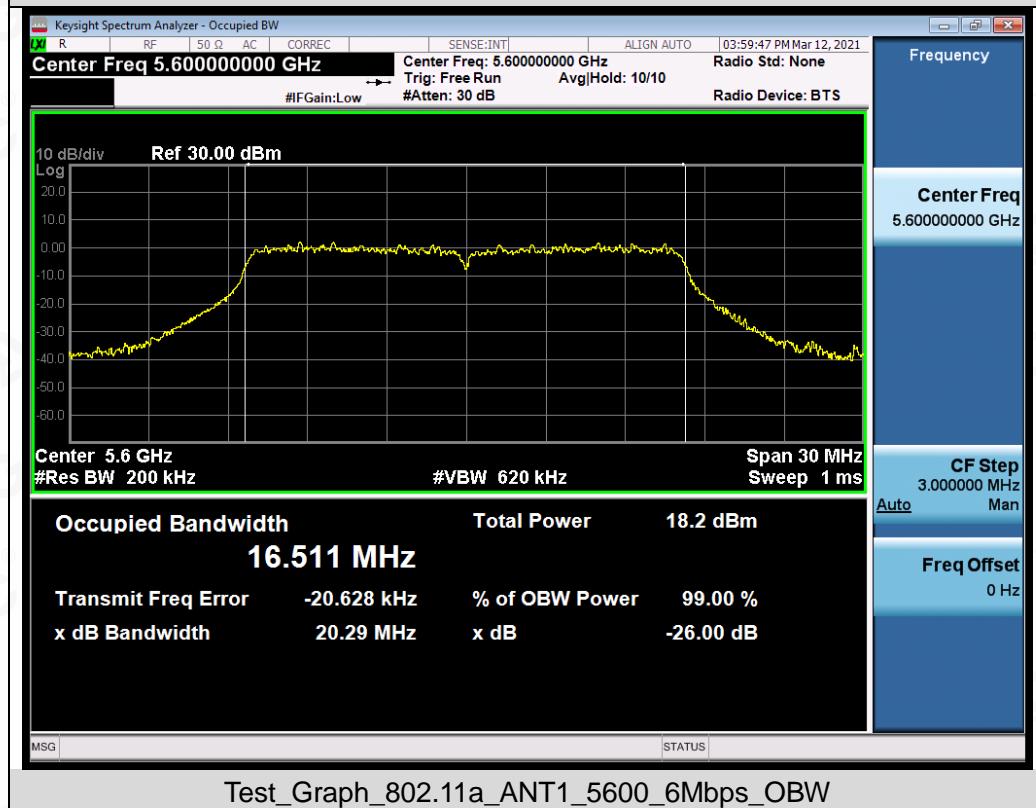
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz



Test_Graph_802.11a_ANT1_5500_6Mbps_OBW



Test_Graph_802.11a_ANT1_5600_6Mbps_OBW

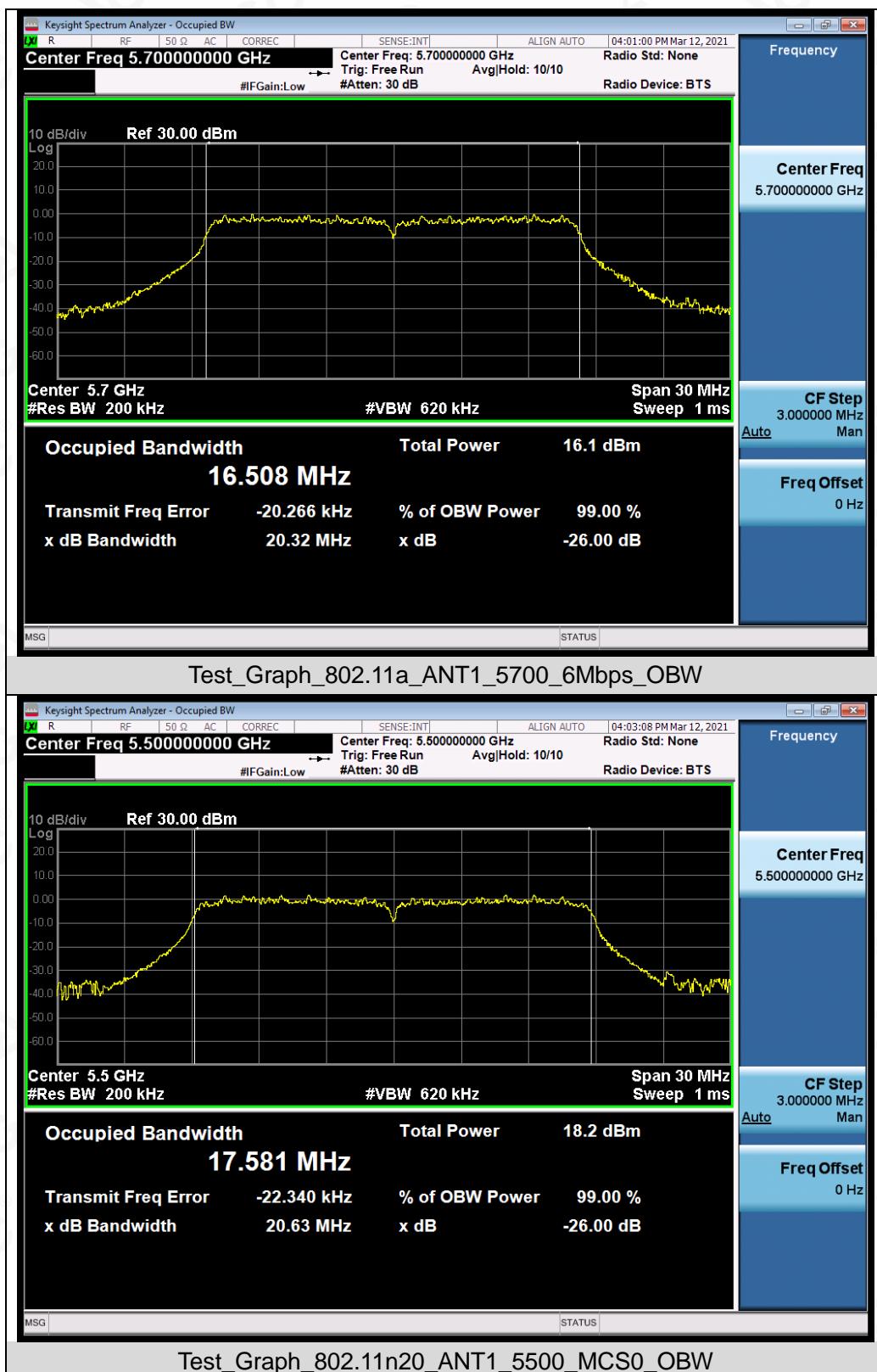
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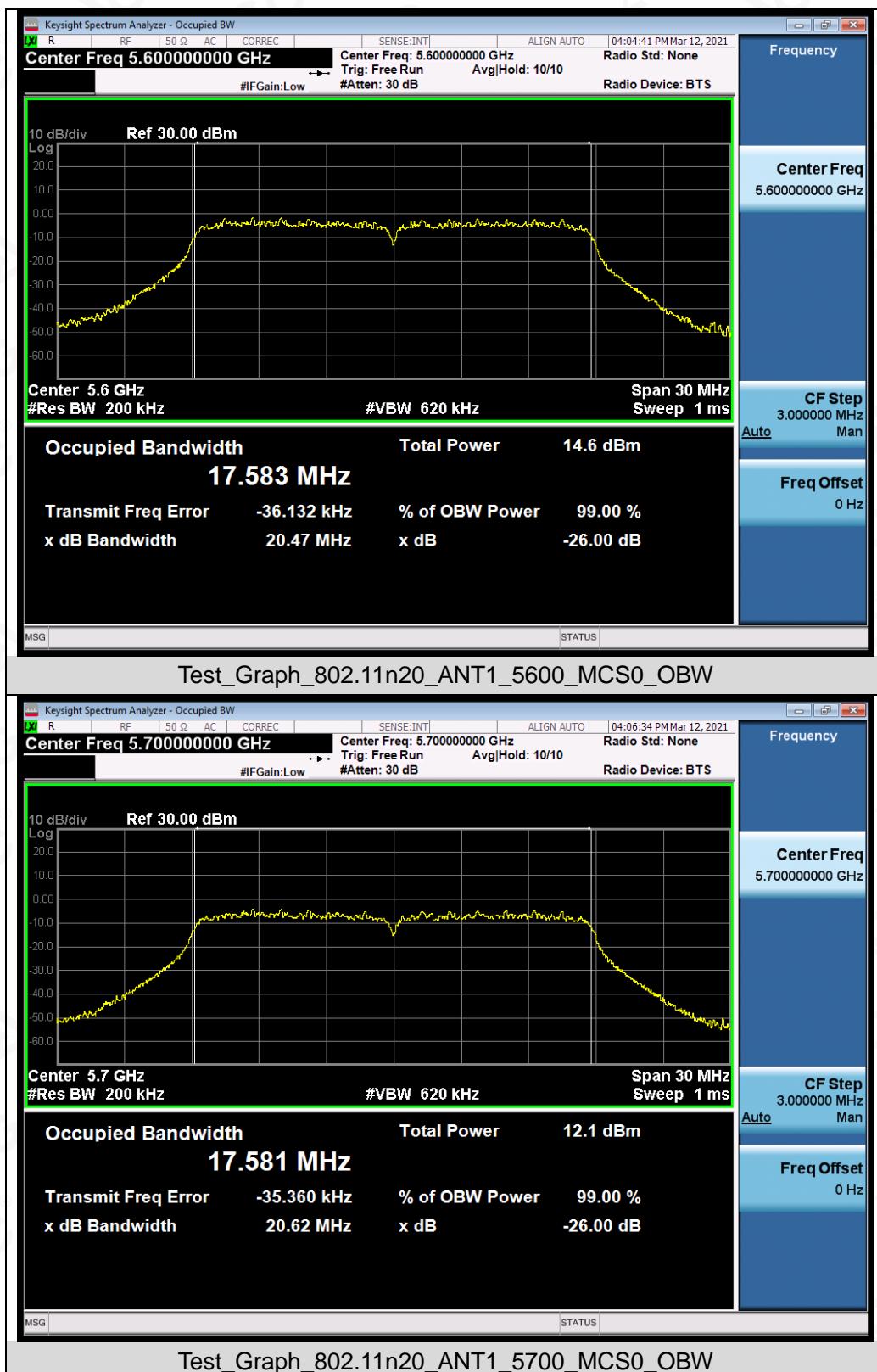
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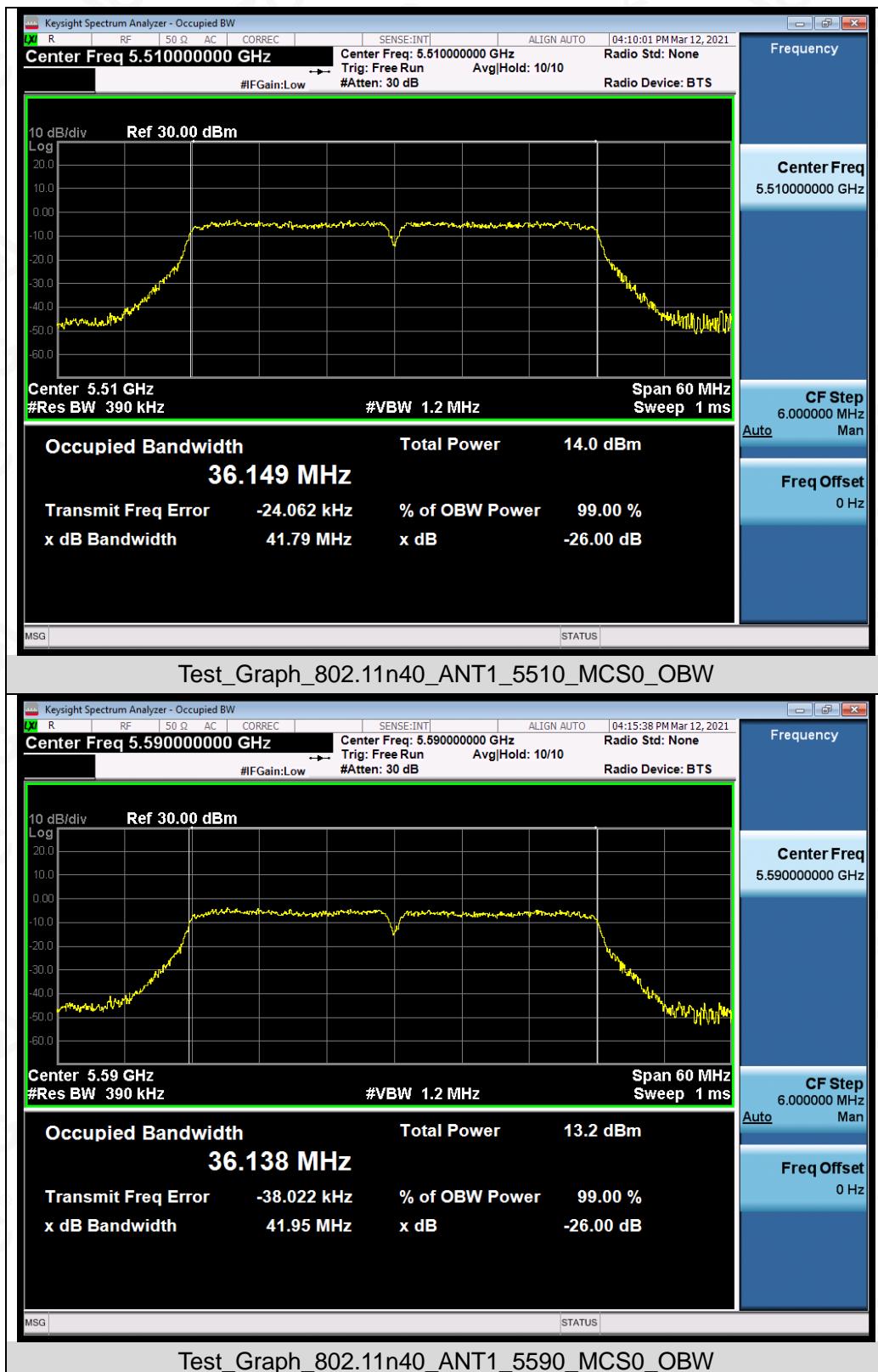
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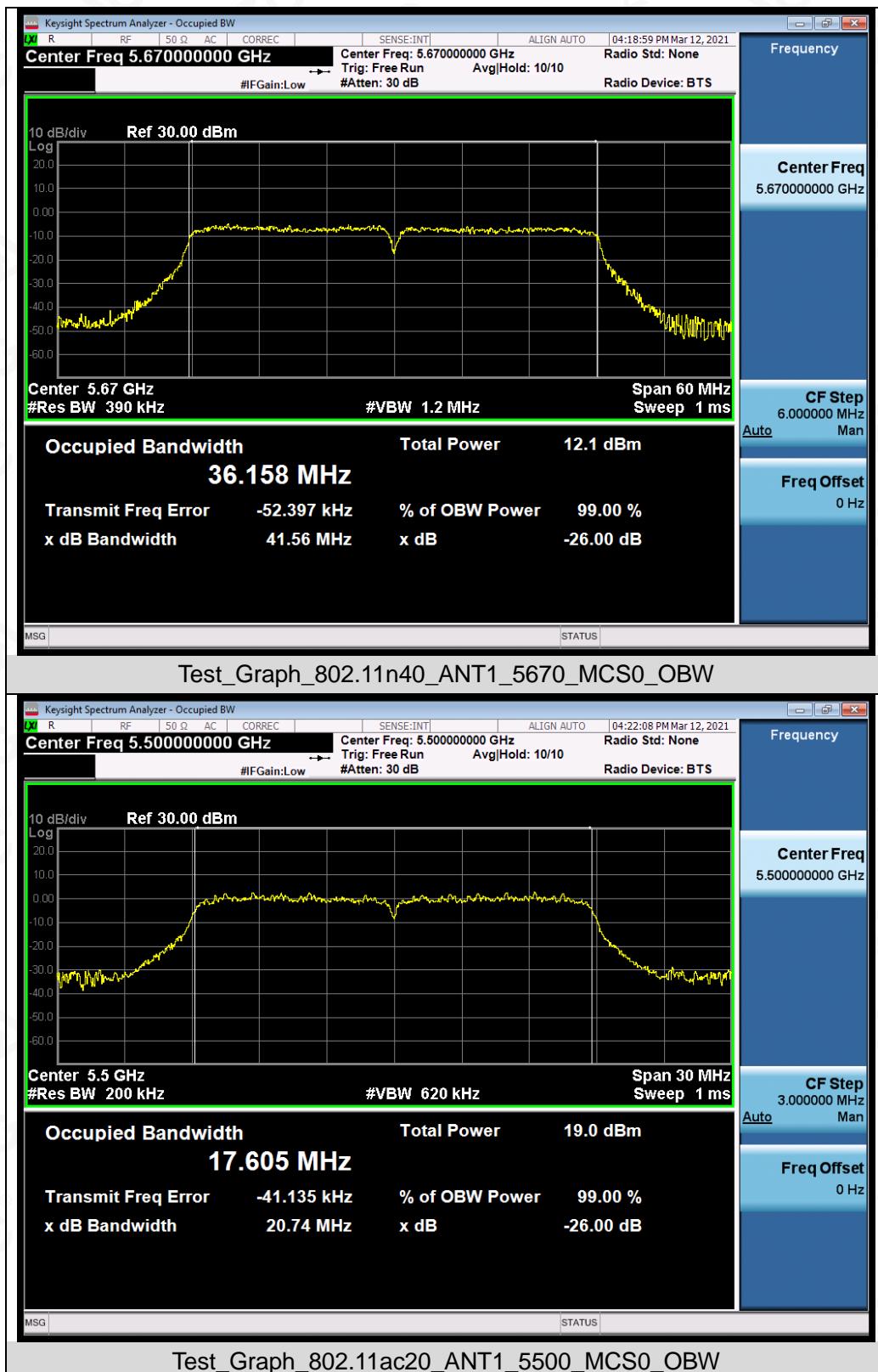
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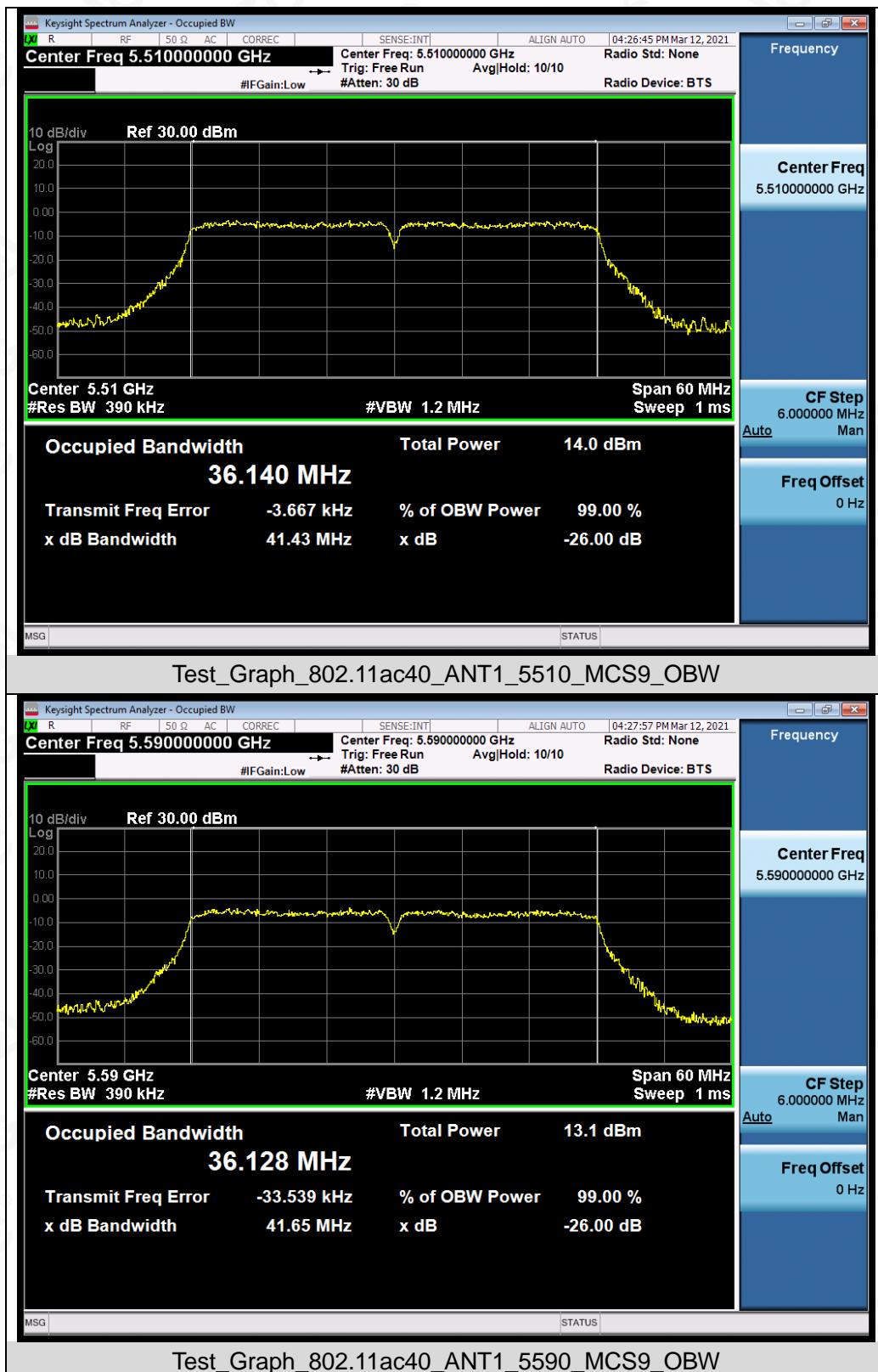
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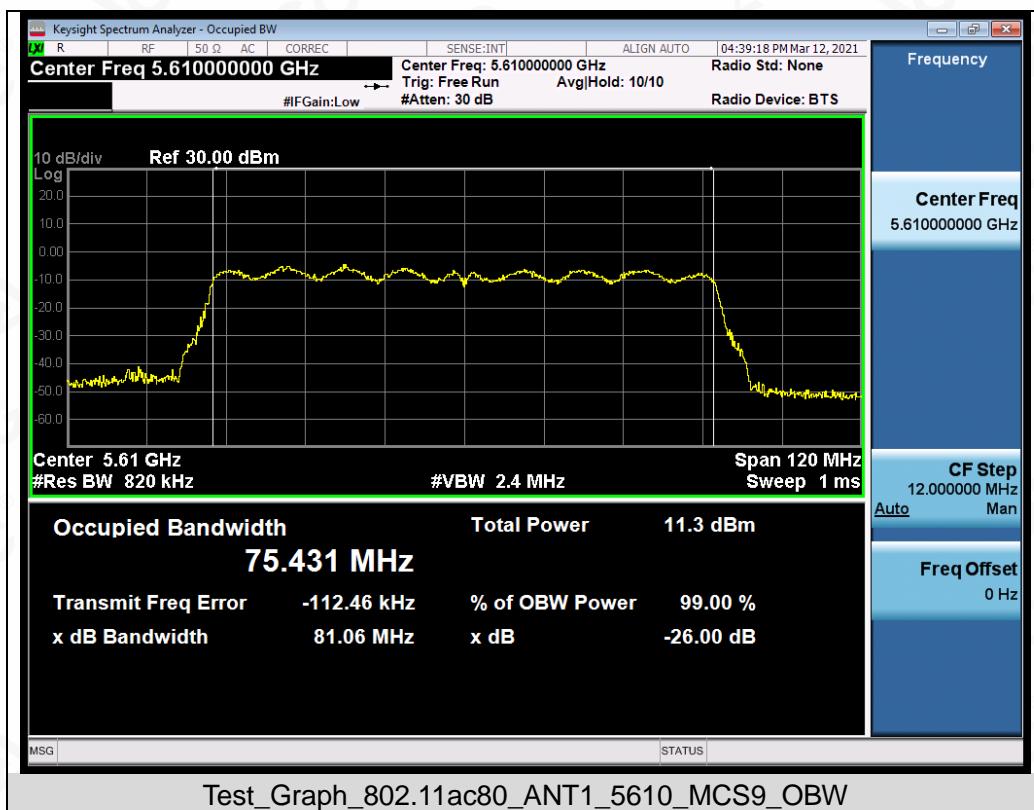
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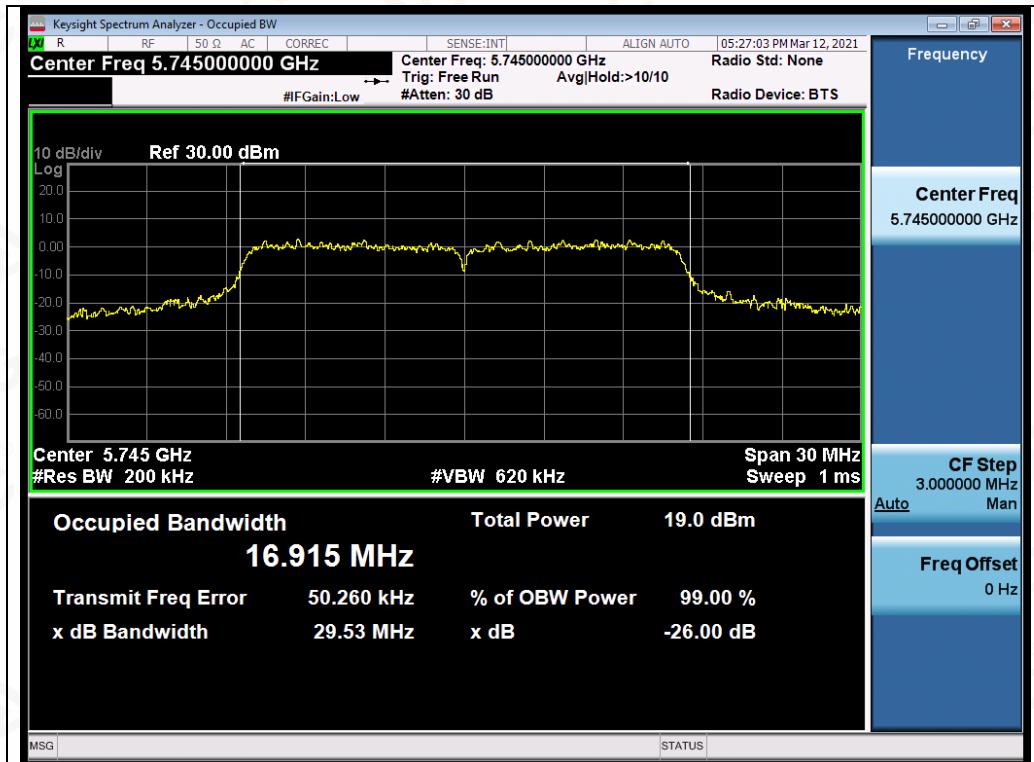
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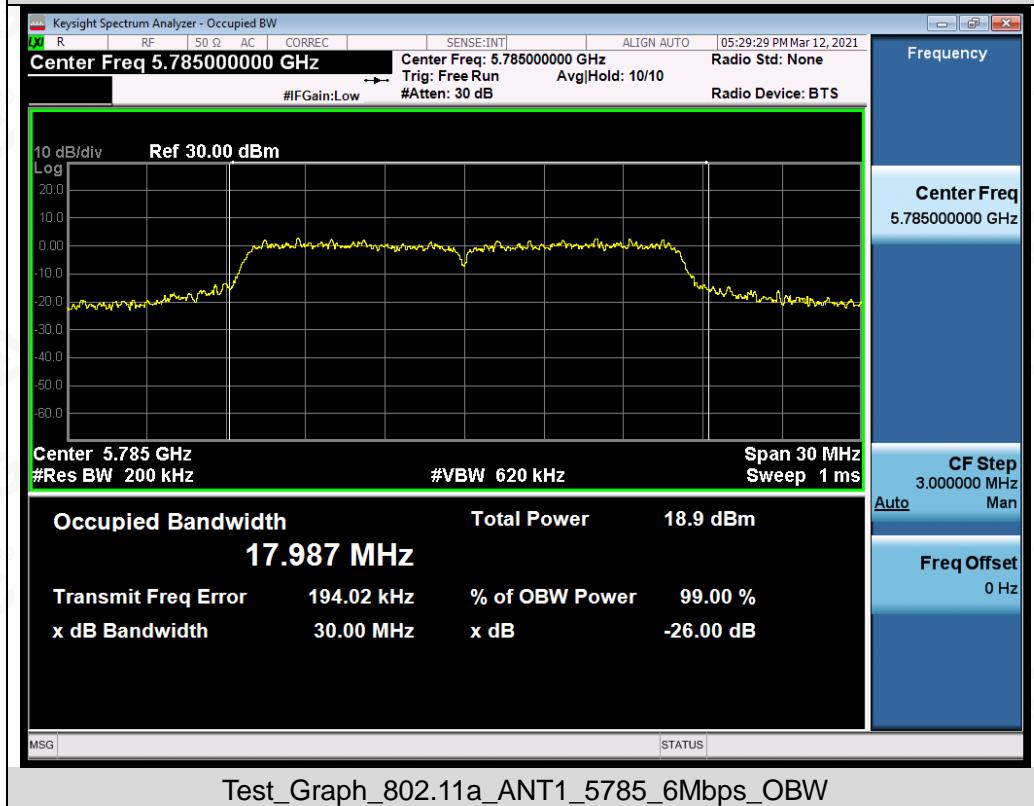
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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_OBW



Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

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