
FCC Test Report

Report No.: AGC01659220702FE06

FCC ID : 2A6RI-T6

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : TD-LTE wireless data terminal

BRAND NAME : WEICL

MODEL NAME : T6

APPLICANT : Hangzhou Weici Technology Co., LTD

DATE OF ISSUE : Sep. 14, 2022

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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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 14, 2022	Valid	Initial Release

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

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1. VERIFICATION OF CONFORMITY

Applicant	Hangzhou Weici Technology Co., LTD
Address	B1135, Hangzhou Yin, No 2030, Jianghui Road, Binjiang, Hangzhou, China
Manufacturer	Hangzhou Weici Technology Co., LTD
Address	B1135, Hangzhou Yin, No 2030, Jianghui Road, Binjiang, Hangzhou, China
Factory	Shenzhen Tianlong Century Technology Development Co., Ltd.
Address	3 & 5th Floor, Building 1, Quanxinyuan Industrial zone, Tongsheng community, Dalang street, Longhua District, Shenzhen, China
Product Designation	TD-LTE wireless data terminal
Brand Name	WEICL
Test Model	T6
Date of test	Jul. 08, 2022~Sep. 13, 2022
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)

Sep. 13, 2022

Reviewed By



Calvin Liu
(Reviewer)

Sep. 13, 2022

Approved By



Max Zhang
Authorized Officer

Sep. 13, 2022

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “TD-LTE wireless data terminal”. 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	☐ Outdoor access points ☐ Fixed P2P access points	☐ Indoor access points ☒ Client devices
Operation Frequency	☒ U-NII 1:5150MHz~5250MHz ☒ U-NII 2C:5470MHz~5725MHz	☒ U-NII 2A: 5250MHz~5350MHz ☒ U-NII 3: 5725MHz~5850MHz
DFS Design Type	☐ Master ☐ Slave with radar detection	☒ Slave without radar detection
TPC Function	☐ Yes ☒ No	
Test Frequency Range:	For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz, 5510~5590MHz, 5755~5795MHz For 802.11ac-VHT80: 5210MHz, 52910MHz, 5610MHz, 5775MHz	
Max Average Power	IEEE 802.11a:12.96dBm; IEEE 802.11n-HT20:12.78dBm; IEEE 802.11n-HT40:12.71dBm; IEEE 802.11ac-VHT20:11.66dBm; IEEE 802.11ac-VHT40:11.72dBm; IEEE 802.11ac-VHT80:12.22dBm	
Modulation	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM, 128QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM)	
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 868.8Mbps	
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	MH16_V1.0	
Software Version	MH16S44CBG21_T6_V1.0	
Antenna Designation	PIFA Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	U-NII 1:3.45dBi U- NII-2A:3.17dBi U-NII-2C:3.38dBi U- NII 3:3.70dBi	
Power Supply	DC 3.85V by battery	

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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	--	--

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 channel 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: 2A6RI-T6** 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.

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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, 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

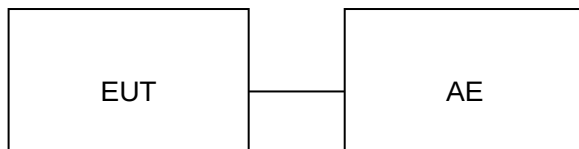
Note:

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.
3. The test software is through engineering commands, EUT can be set to a separate test mode.

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	TD-LTE wireless data terminal	T6	2A6RI-T6	EUT
2	Adapter	CH018A	Input: AC 100-240V 50/60Hz, 0.5A Output: DC 3.6-6.0V, 3.0A/6.0-9.0V, 2.0A/9.0-12.0V, 1.5A	AE
3	Battery	T6	DC 3.85V 5000mAh	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	Aug. 04, 2022	Aug. 03, 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	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	N/A	N/A
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 01, 2022	Aug. 31, 2023
Horn antenna	SCHWARZBECK	BBHA 9170	#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 LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 01, 2022	Aug. 31, 2023
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

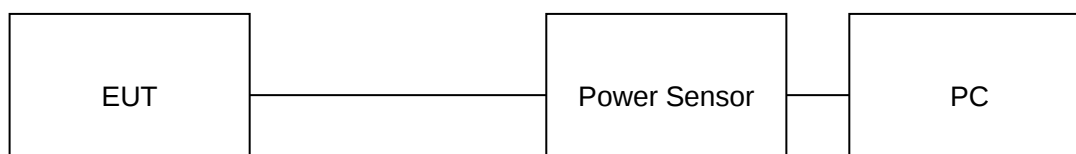
For average power test:

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 5.15-5.25 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	12.96	23.98	Pass
	5200	12.76	23.98	Pass
	5240	12.44	23.98	Pass
802.11n20	5180	12.78	23.98	Pass
	5200	12.55	23.98	Pass
	5240	12.42	23.98	Pass
802.11n40	5190	12.56	23.98	Pass
	5230	12.61	23.98	Pass
802.11ac20	5180	11.23	23.98	Pass
	5200	11.35	23.98	Pass
	5240	11.39	23.98	Pass
802.11ac40	5190	11.42	23.98	Pass
	5230	11.63	23.98	Pass
802.11ac80	5210	11.89	23.98	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	12.22	23.98	Pass
	5300	11.97	23.98	Pass
	5320	11.74	23.98	Pass
802.11n20	5260	11.97	23.98	Pass
	5300	12.55	23.98	Pass
	5320	12.56	23.98	Pass
802.11n40	5270	12.71	23.98	Pass
	5310	12.50	23.98	Pass
802.11ac20	5260	11.66	23.98	Pass
	5300	11.44	23.98	Pass
	5320	11.48	23.98	Pass
802.11ac40	5270	11.72	23.98	Pass
	5310	11.70	23.98	Pass
802.11ac80	5290	12.22	23.98	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	11.21	23.98	Pass
	5600	12.49	23.98	Pass
	5700	11.90	23.98	Pass
802.11n20	5500	11.27	23.98	Pass
	5600	12.30	23.98	Pass
	5700	11.76	23.98	Pass
802.11n40	5510	10.47	23.98	Pass
	5590	11.54	23.98	Pass
	5670	11.47	23.98	Pass
802.11ac20	5500	10.27	23.98	Pass
	5600	11.14	23.98	Pass
	5700	10.75	23.98	Pass
802.11ac40	5510	9.38	23.98	Pass
	5590	10.43	23.98	Pass
	5670	10.39	23.98	Pass
802.11ac80	5610	10.74	23.98	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	11.06	30	Pass
	5785	10.79	30	Pass
	5825	10.68	30	Pass
802.11n20	5745	10.92	30	Pass
	5785	10.85	30	Pass
	5825	10.53	30	Pass
802.11n40	5755	11.00	30	Pass
	5795	10.81	30	Pass
802.11ac20	5745	9.72	30	Pass
	5785	9.50	30	Pass
	5825	9.55	30	Pass
802.11ac40	5755	10.07	30	Pass
	5795	9.83	30	Pass
802.11ac80	5775	10.41	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 $\geq 3 \times \text{RBW}$. 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:

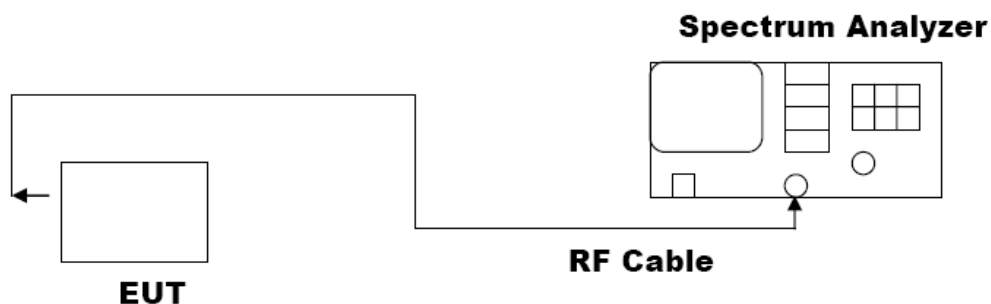
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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 $> \text{RBW}$.
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	16.438	19.907	N/A	Pass
	5200	16.439	19.733	N/A	Pass
	5240	16.412	19.816	N/A	Pass
802.11n20	5180	17.570	20.007	N/A	Pass
	5200	17.563	20.043	N/A	Pass
	5240	17.574	20.158	N/A	Pass
802.11n40	5190	35.980	40.282	N/A	Pass
	5230	35.974	40.348	N/A	Pass
802.11ac20	5180	17.534	20.016	N/A	Pass
	5200	17.525	20.210	N/A	Pass
	5240	17.534	20.187	N/A	Pass
802.11ac40	5190	35.899	40.146	N/A	Pass
	5230	35.876	40.020	N/A	Pass
802.11ac80	5210	75.214	80.429	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	16.439	19.727	N/A	Pass
	5300	16.423	19.812	N/A	Pass
	5320	16.419	19.643	N/A	Pass
802.11n20	5260	17.559	20.544	N/A	Pass
	5300	17.551	20.203	N/A	Pass
	5320	17.552	20.042	N/A	Pass
802.11n40	5270	35.959	40.116	N/A	Pass
	5310	35.960	40.417	N/A	Pass
802.11ac20	5260	17.526	20.091	N/A	Pass
	5300	17.528	20.189	N/A	Pass
	5320	17.523	20.038	N/A	Pass
802.11ac40	5270	35.919	39.873	N/A	Pass
	5310	35.933	39.855	N/A	Pass
802.11ac80	5290	75.199	80.350	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	16.458	19.950	N/A	Pass
	5600	16.466	23.140	N/A	Pass
	5700	16.435	20.195	N/A	Pass
802.11n20	5500	17.597	21.551	N/A	Pass
	5600	17.617	22.241	N/A	Pass
	5700	17.576	21.397	N/A	Pass
802.11n40	5510	35.998	49.891	N/A	Pass
	5590	35.958	40.186	N/A	Pass
	5670	35.946	40.864	N/A	Pass
802.11ac20	5500	17.560	20.260	N/A	Pass
	5600	17.559	20.076	N/A	Pass
	5700	17.537	20.278	N/A	Pass
802.11ac40	5510	35.873	40.130	N/A	Pass
	5590	35.873	40.420	N/A	Pass
	5670	35.892	40.140	N/A	Pass
802.11ac80	5610	75.199	79.881	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	16.417	15.117	0.5	Pass
	5785	16.434	15.075	0.5	Pass
	5825	16.425	15.114	0.5	Pass
802.11n20	5745	17.557	15.107	0.5	Pass
	5785	17.546	16.053	0.5	Pass
	5825	17.592	15.944	0.5	Pass
802.11n40	5755	36.006	35.107	0.5	Pass
	5795	35.995	35.102	0.5	Pass
802.11ac20	5745	17.547	15.688	0.5	Pass
	5785	17.535	15.960	0.5	Pass
	5825	17.552	16.626	0.5	Pass
802.11ac40	5755	35.920	35.114	0.5	Pass
	5795	35.930	35.064	0.5	Pass
802.11ac80	5775	75.332	75.673	0.5	Pass

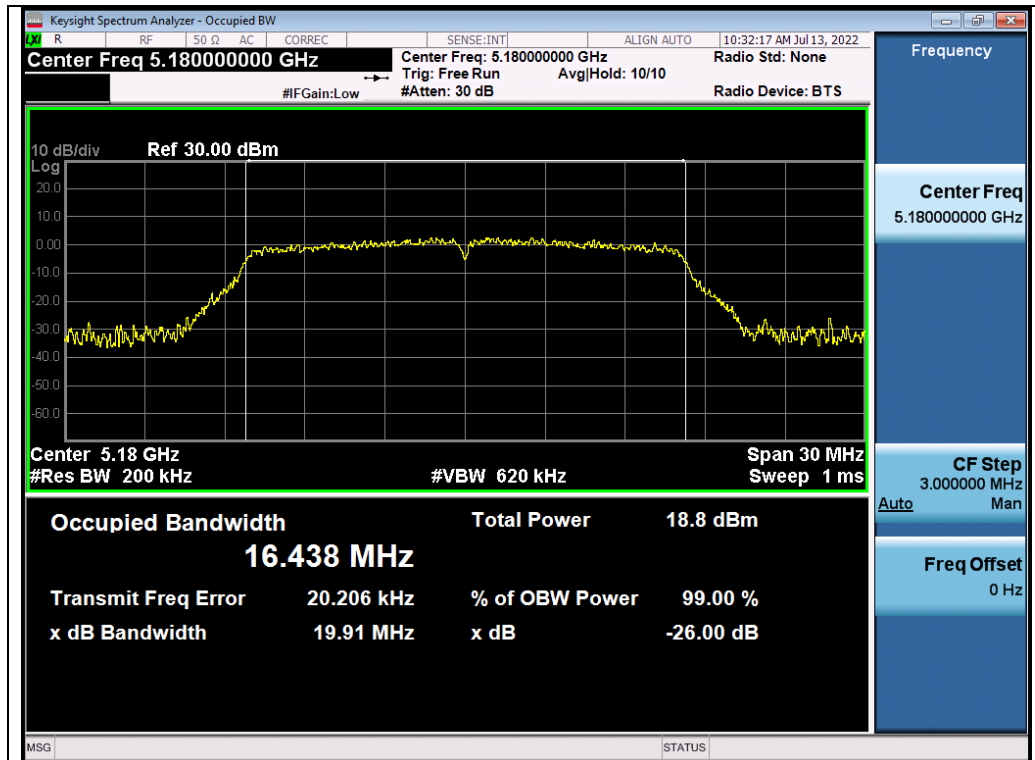
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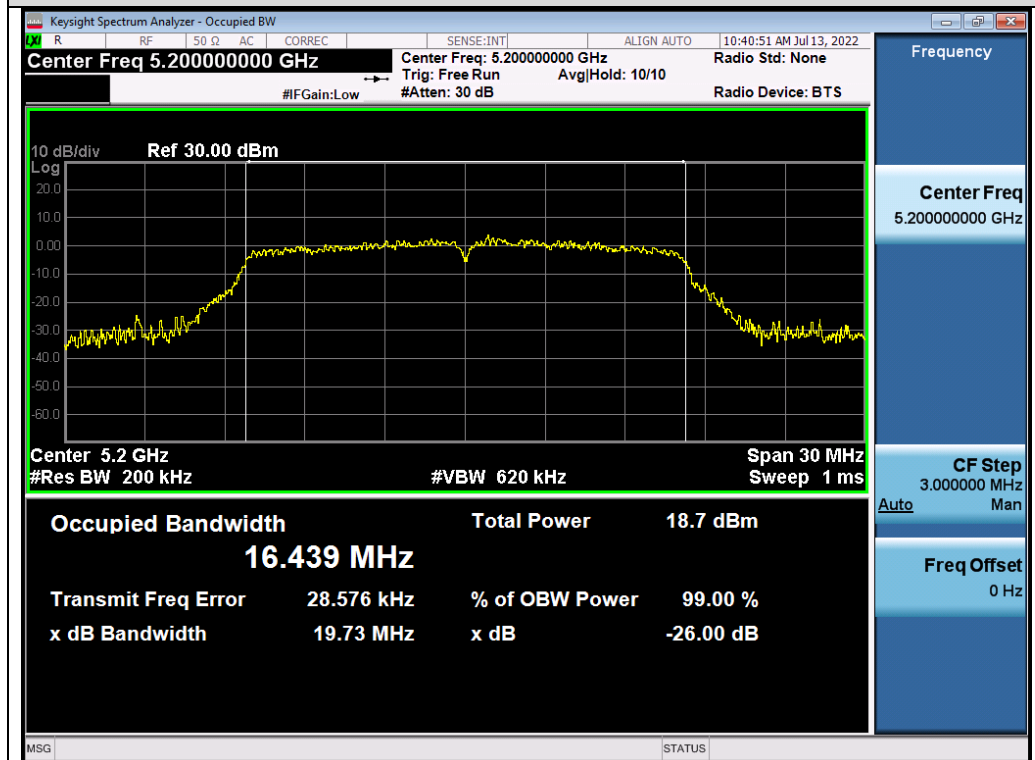
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_OBW



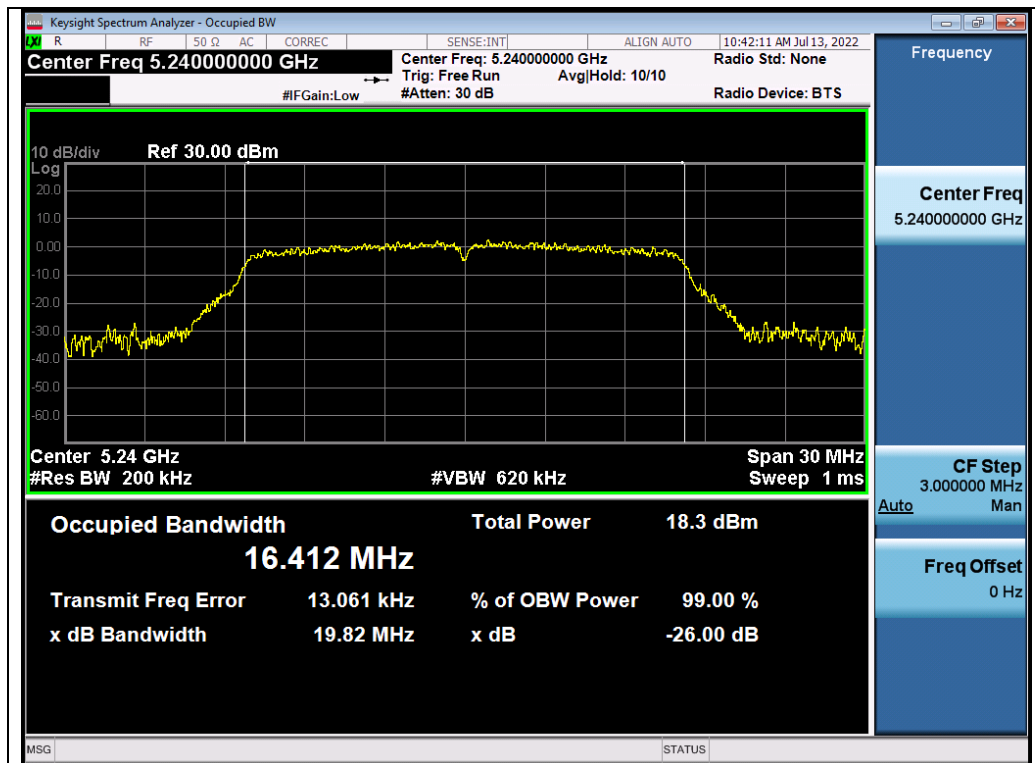
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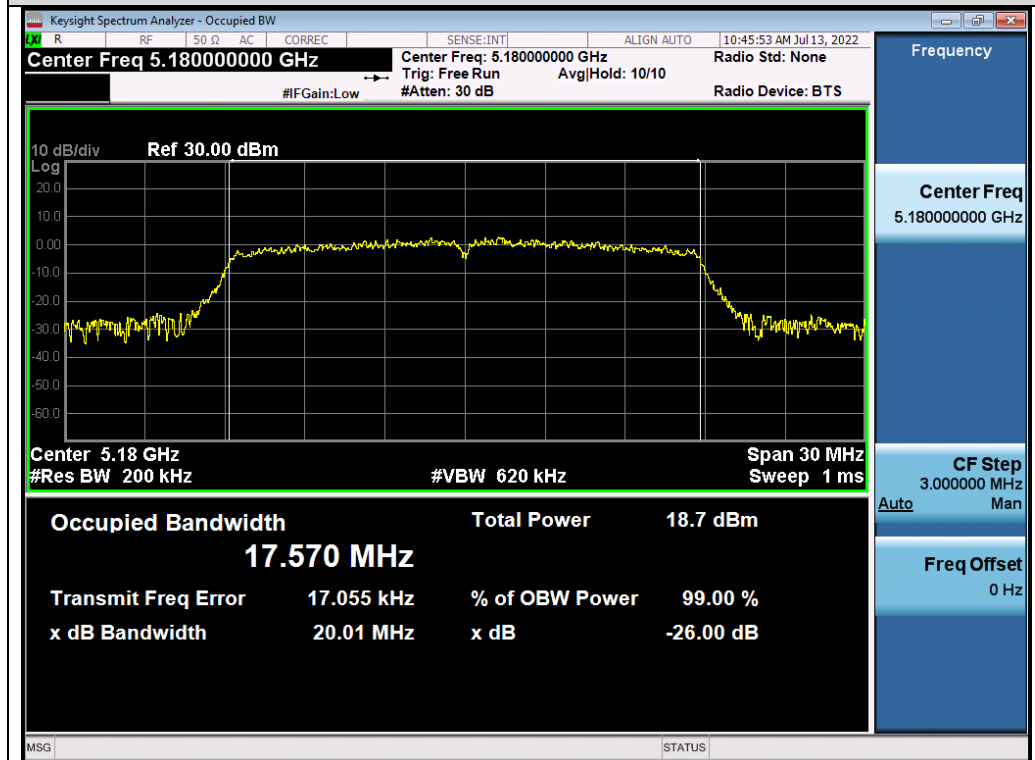
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Test_Graph_802.11a_ANT1_5240_6Mbps_OBW



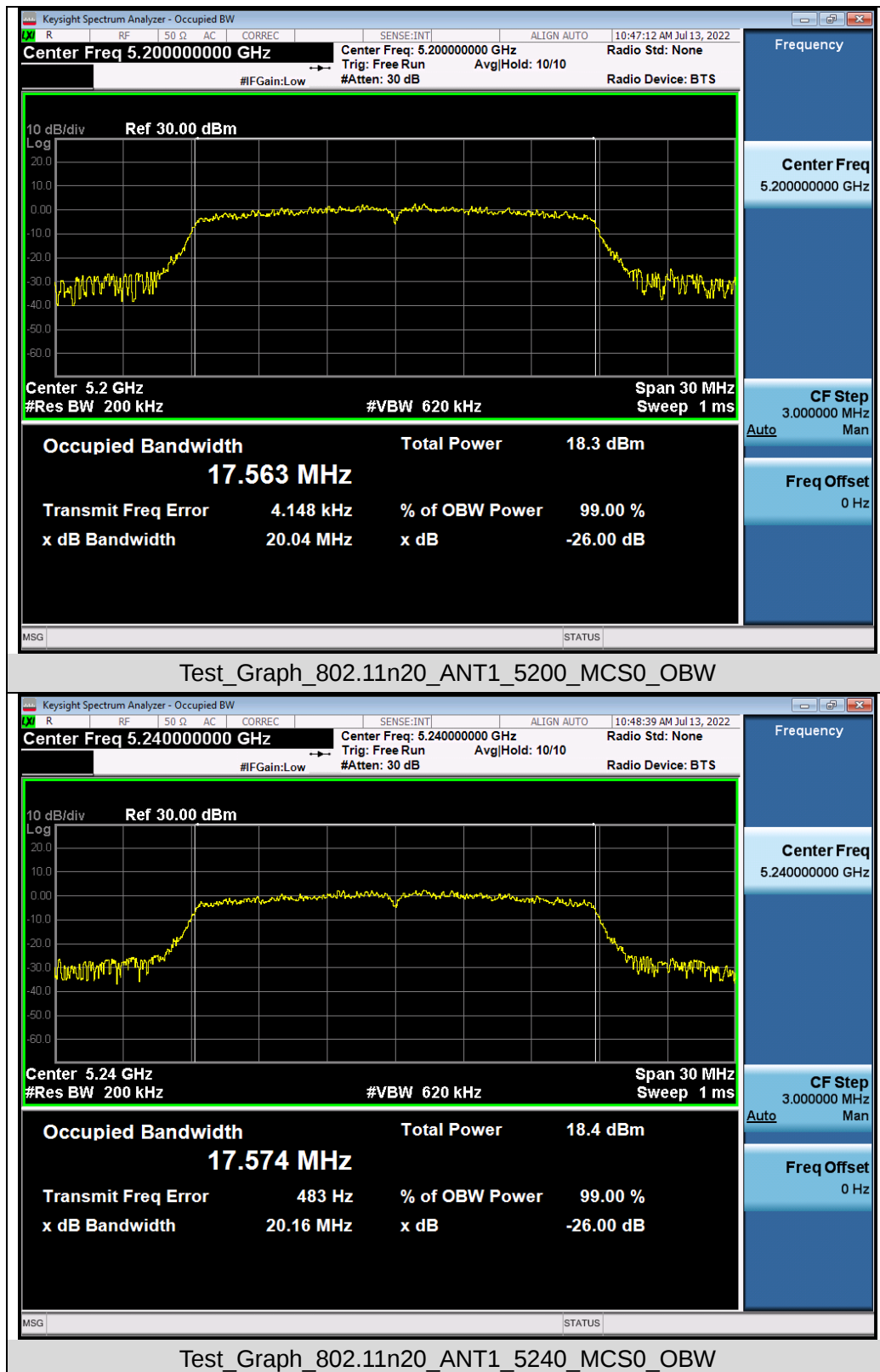
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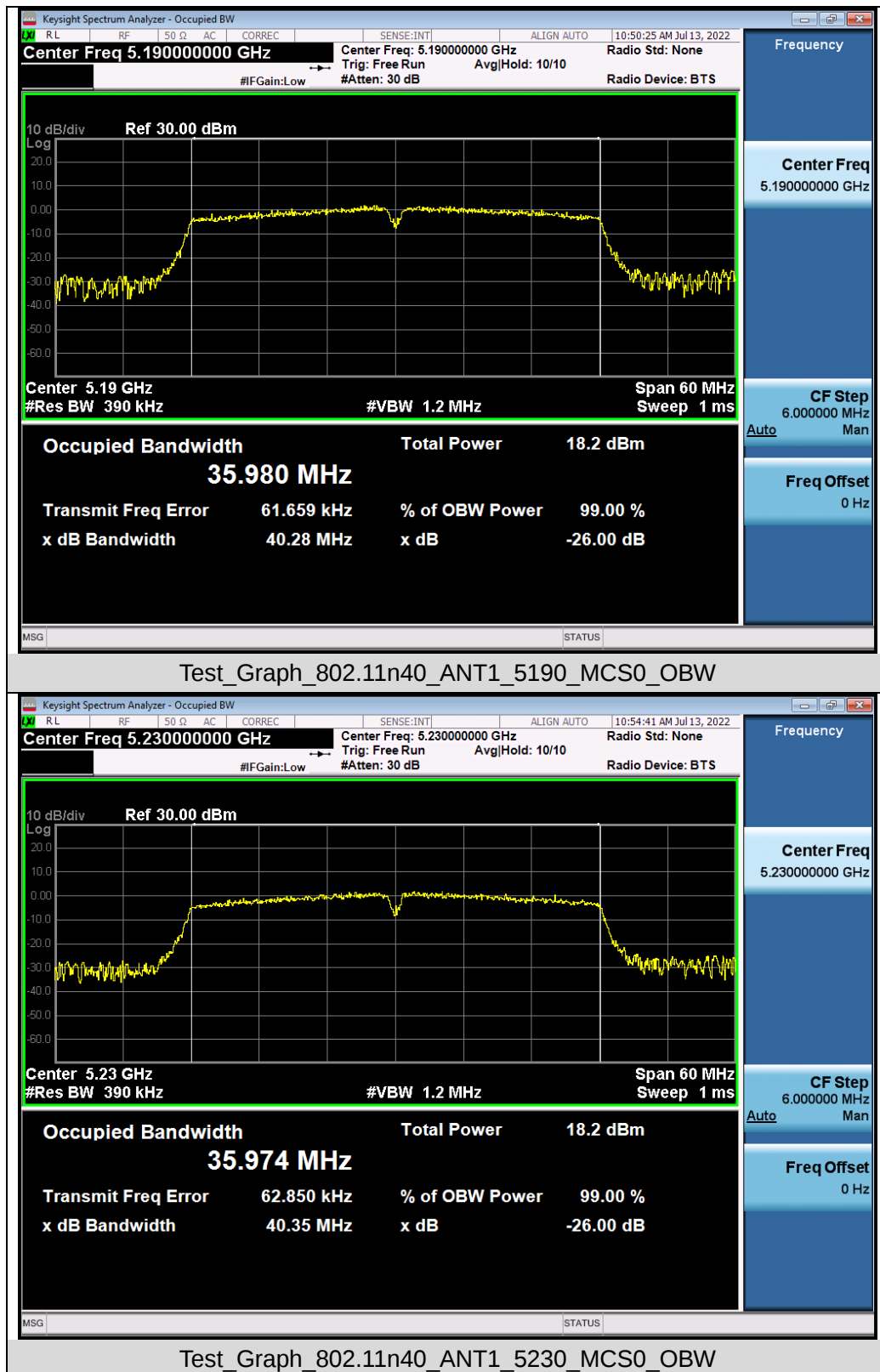
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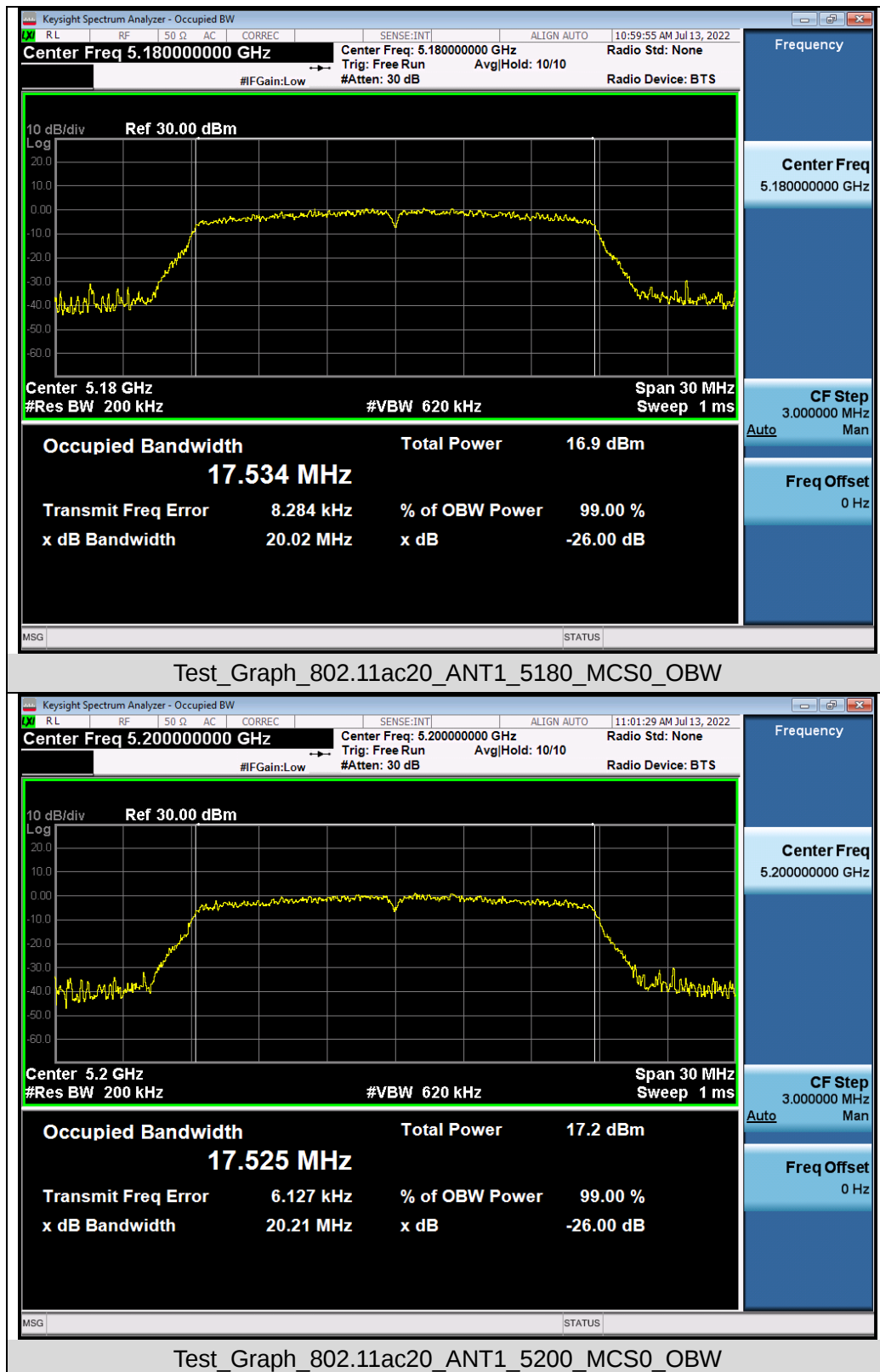
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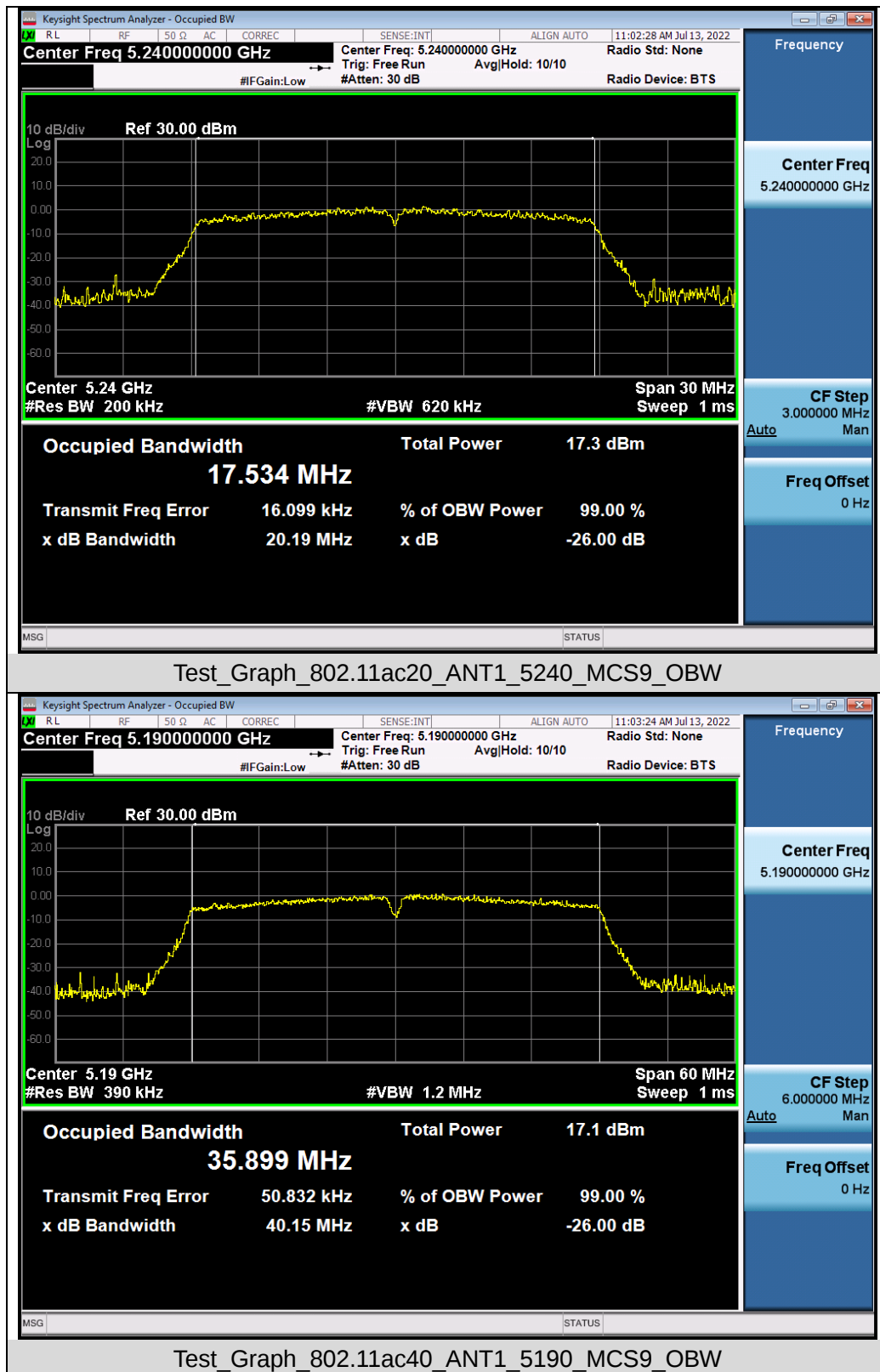
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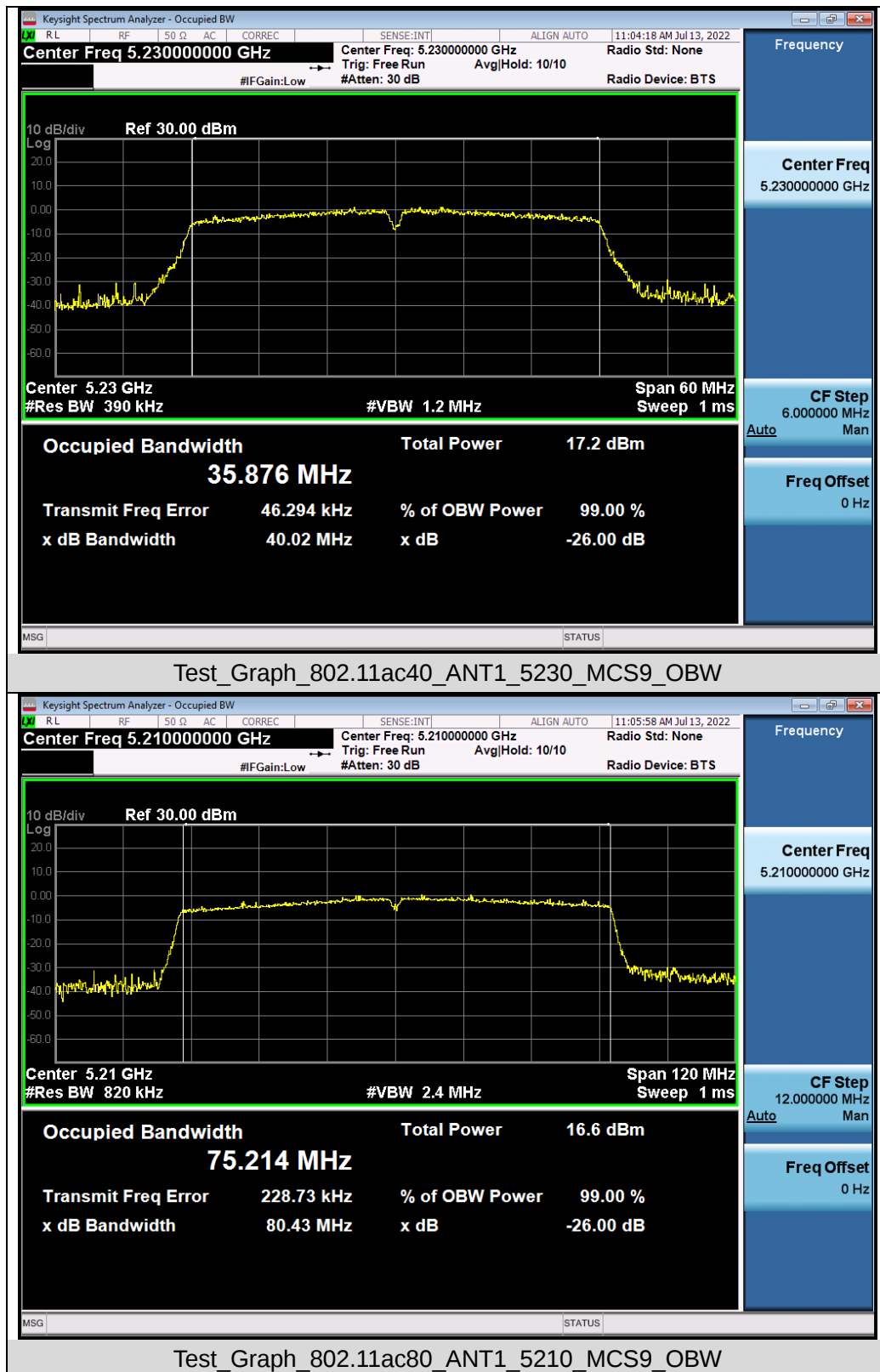
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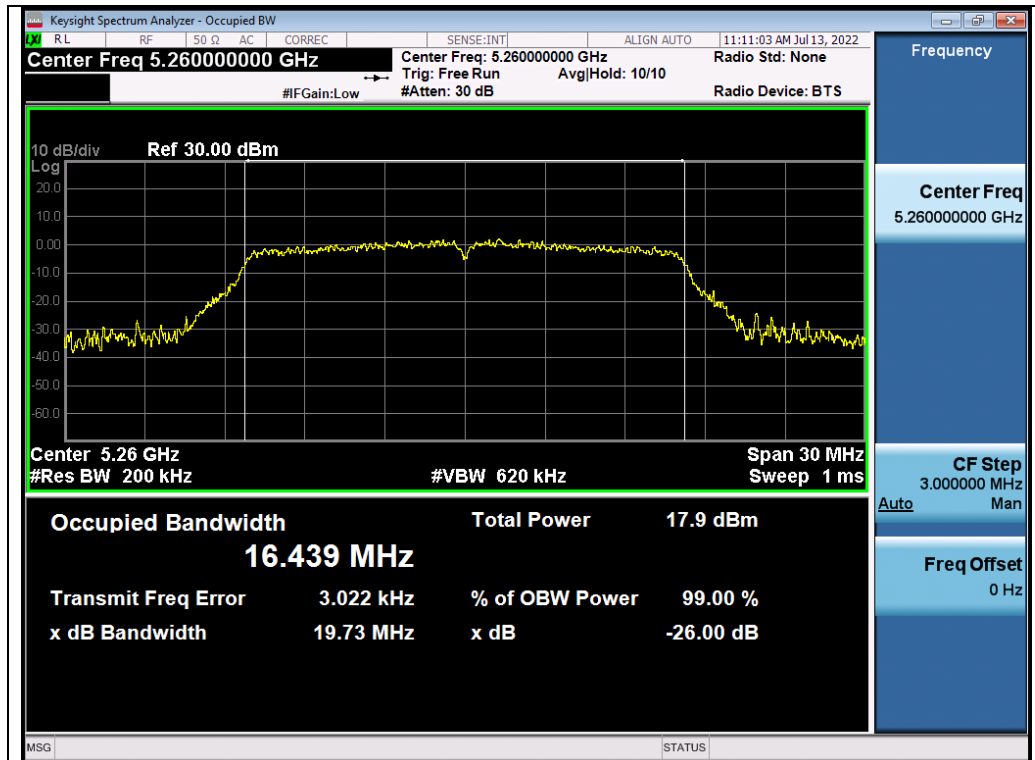


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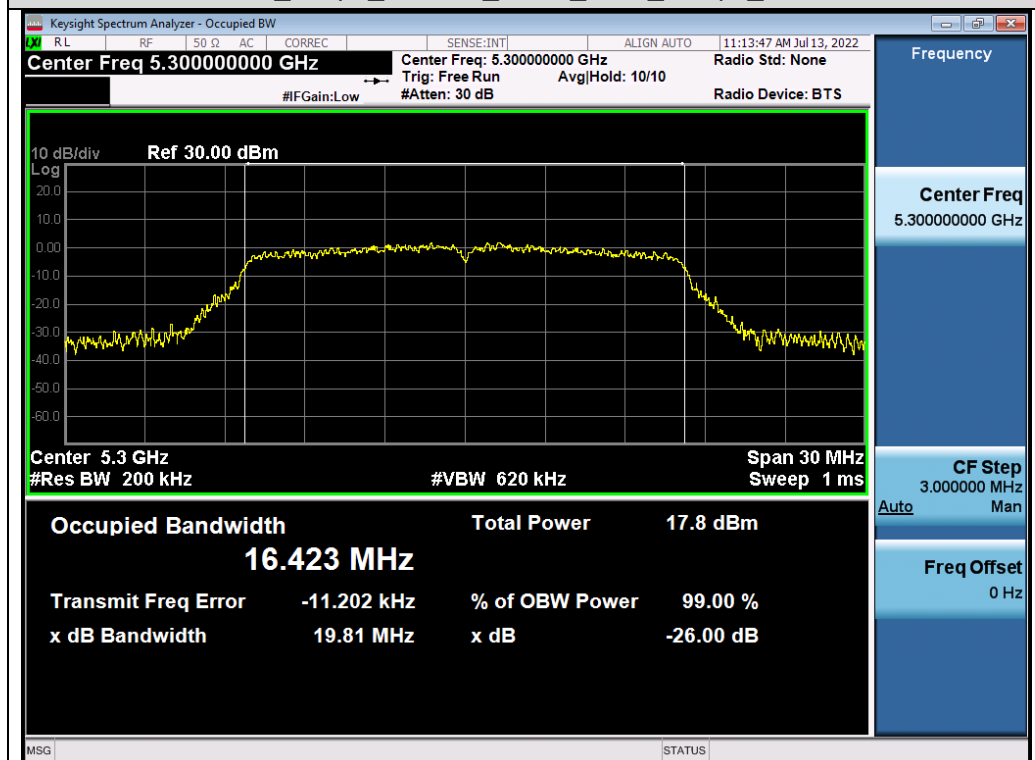


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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz

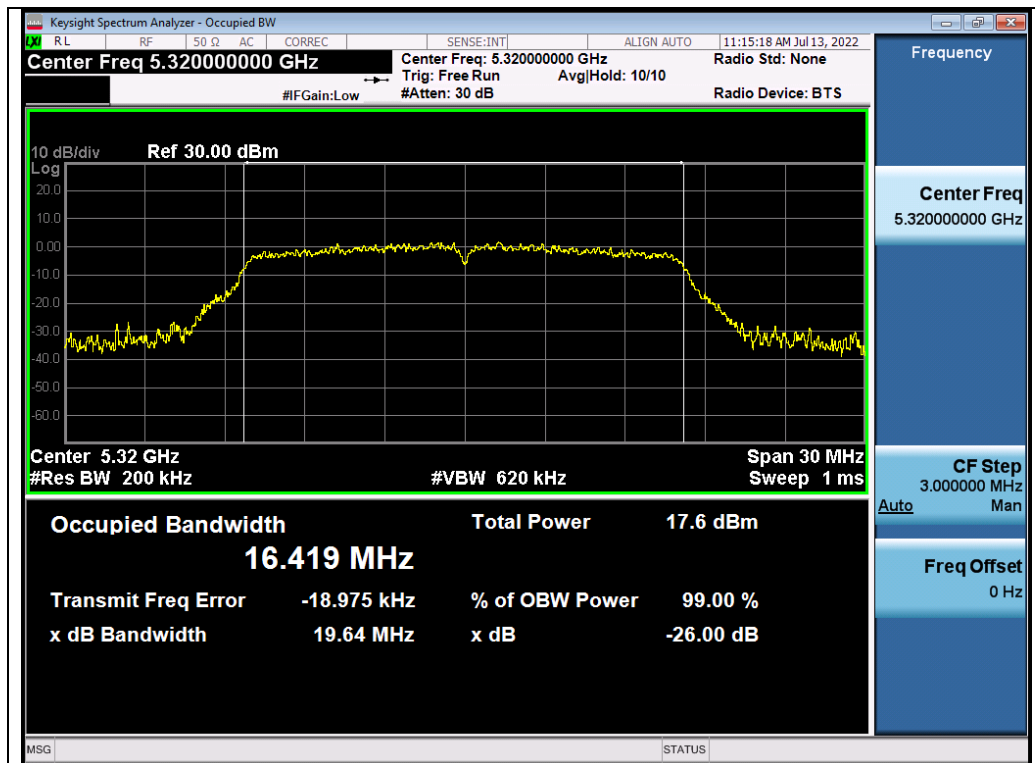


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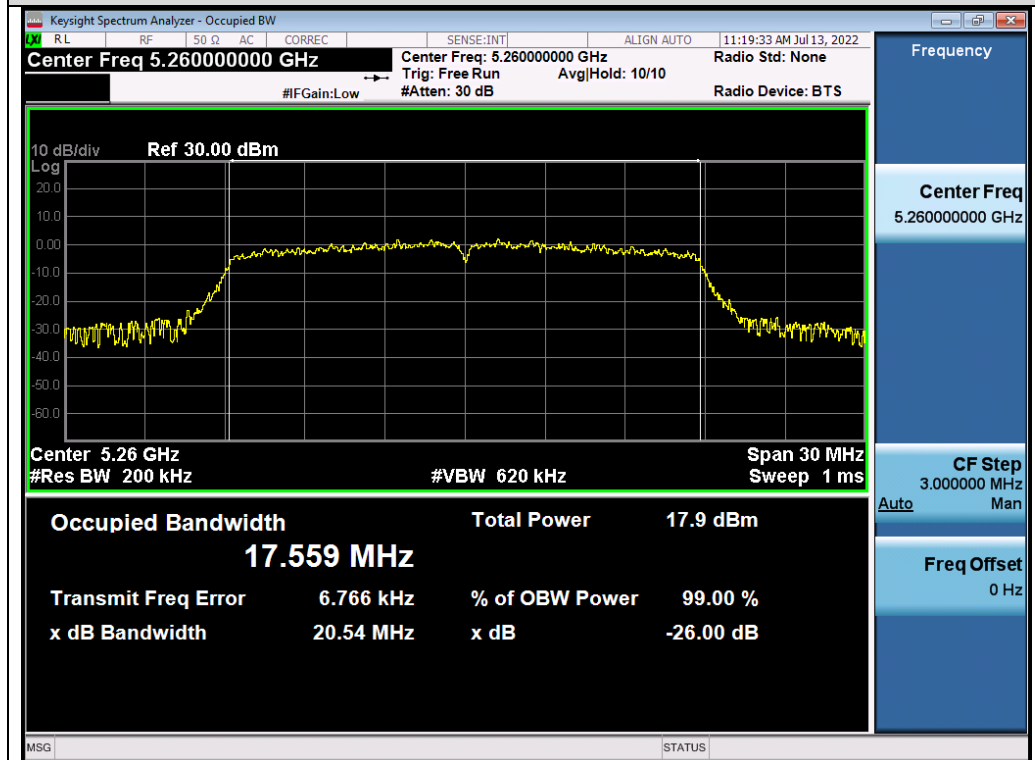


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Test_Graph_802.11a_ANT1_5320_6Mbps_OBW



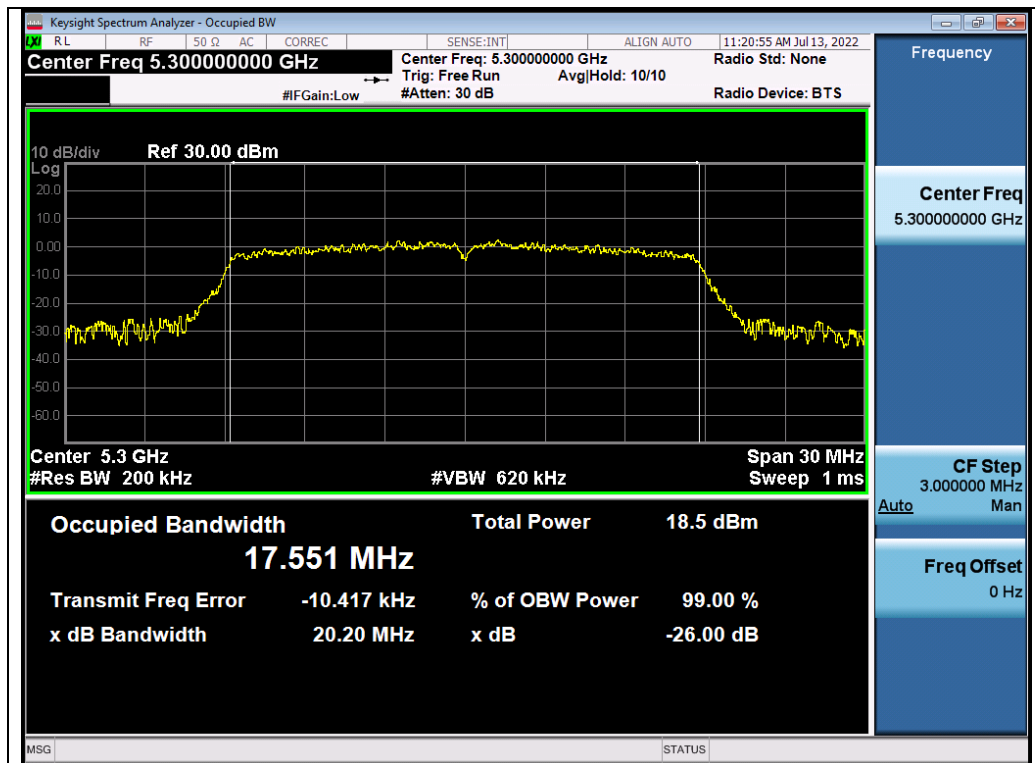
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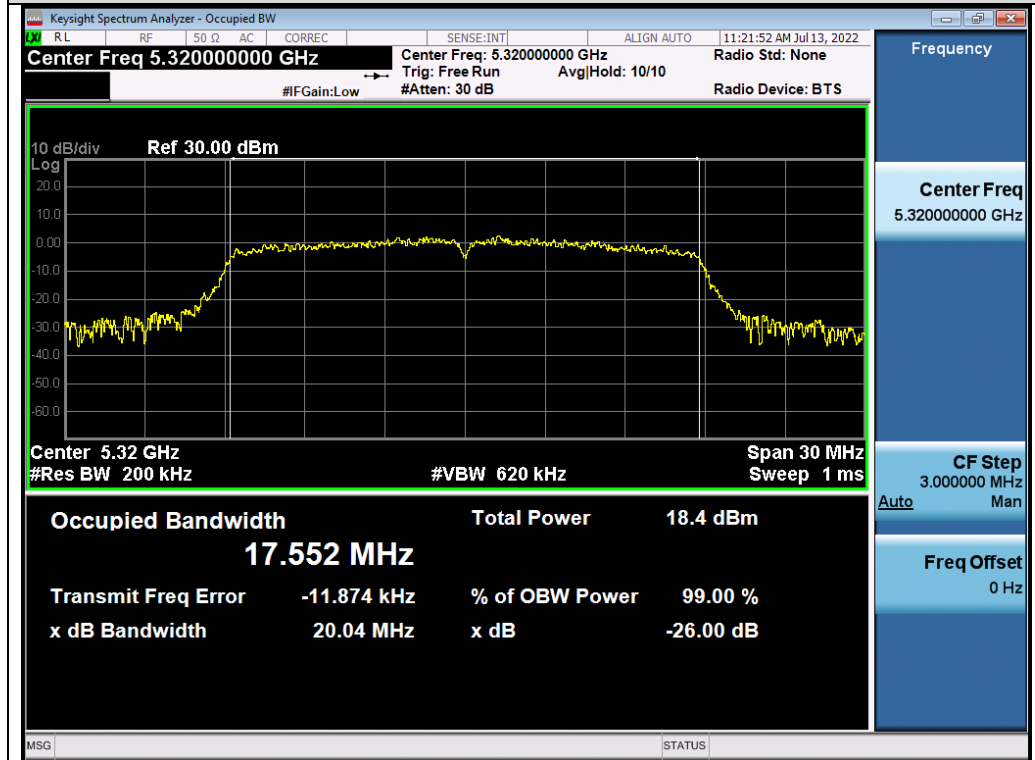
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Test_Graph_802.11n20_ANT1_5300_MCS0_OBW



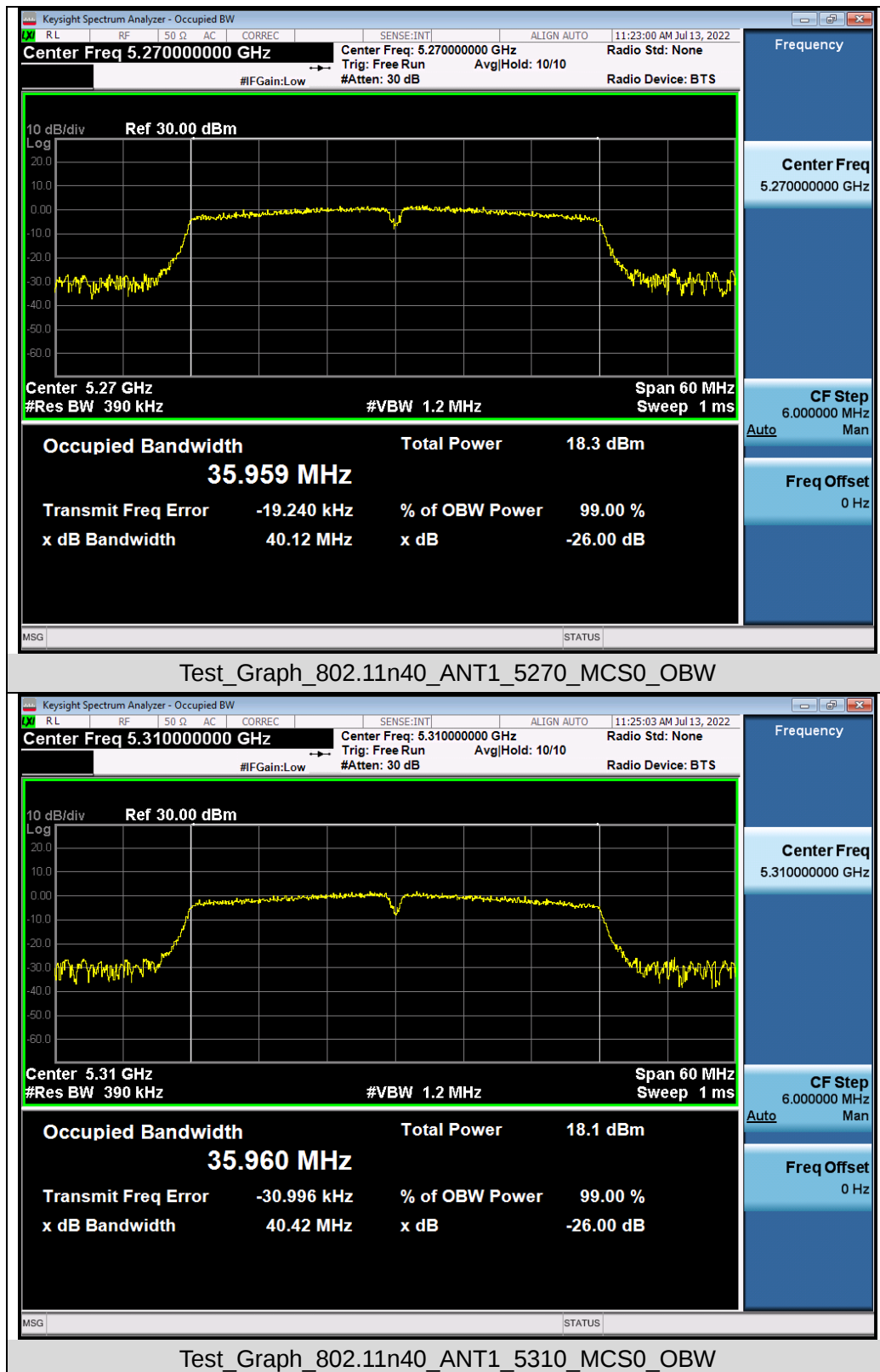
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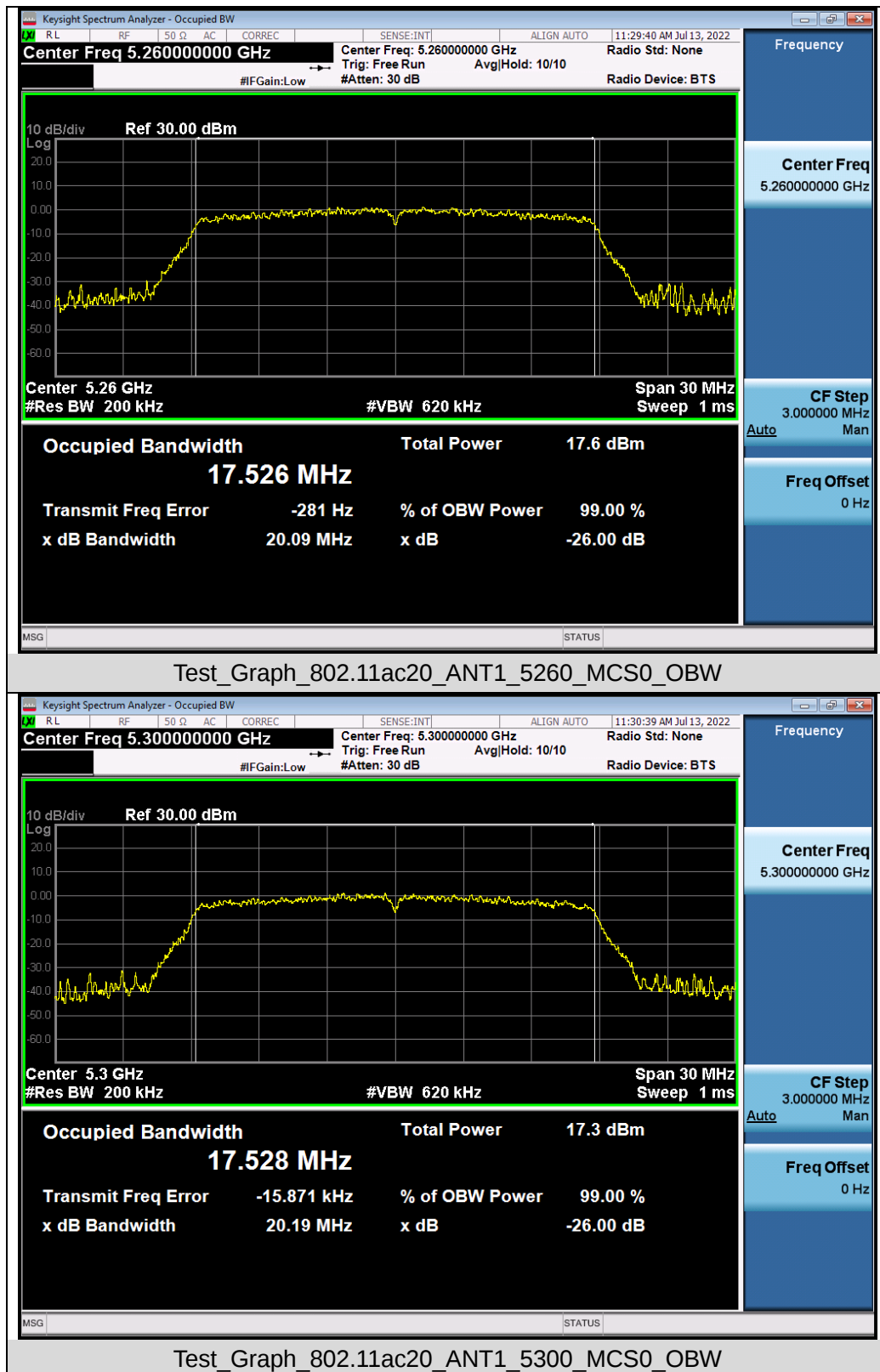
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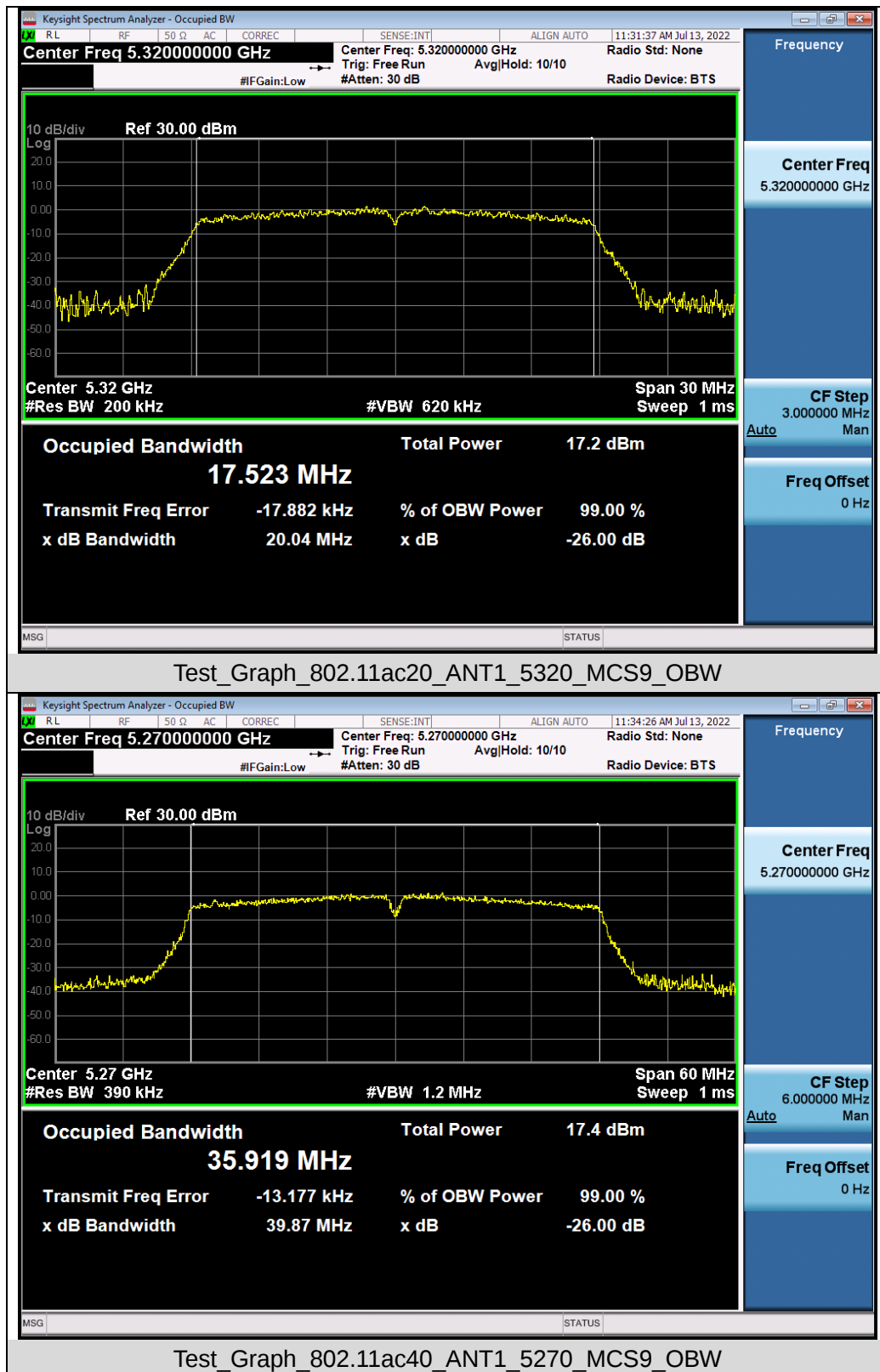
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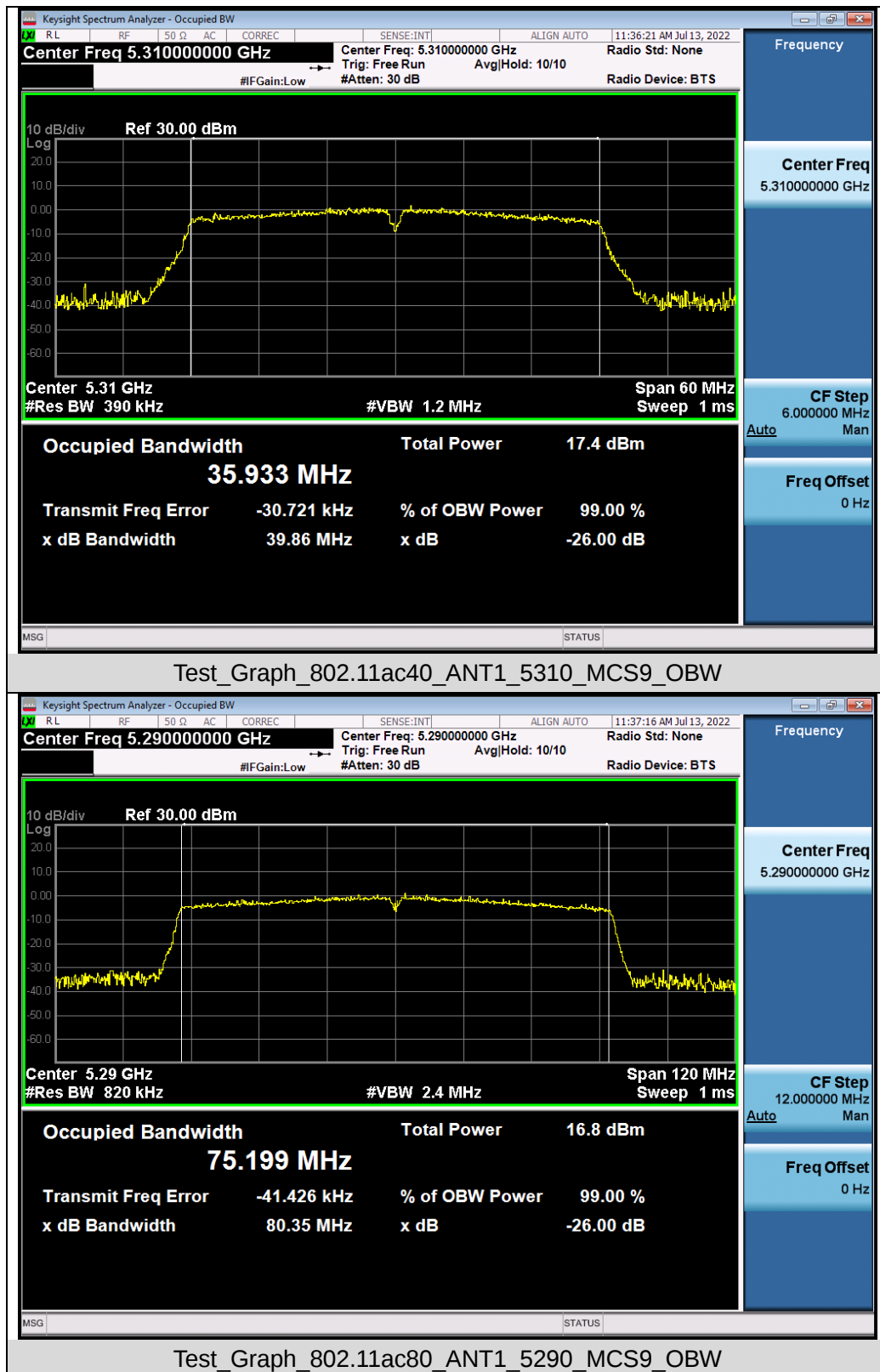
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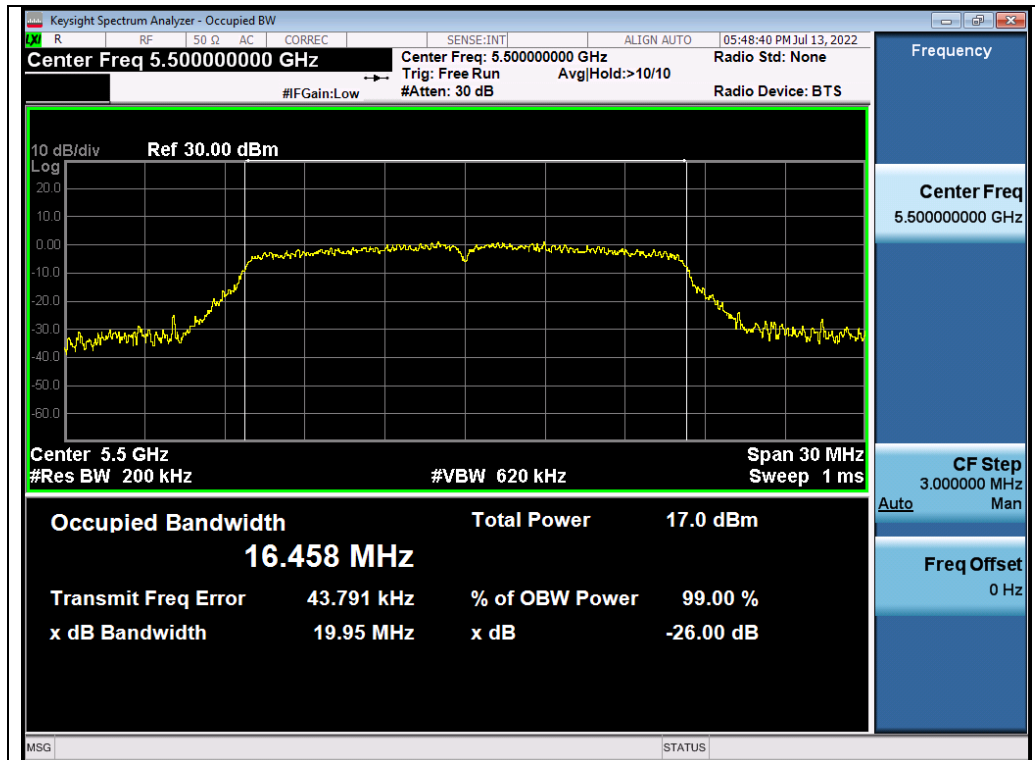


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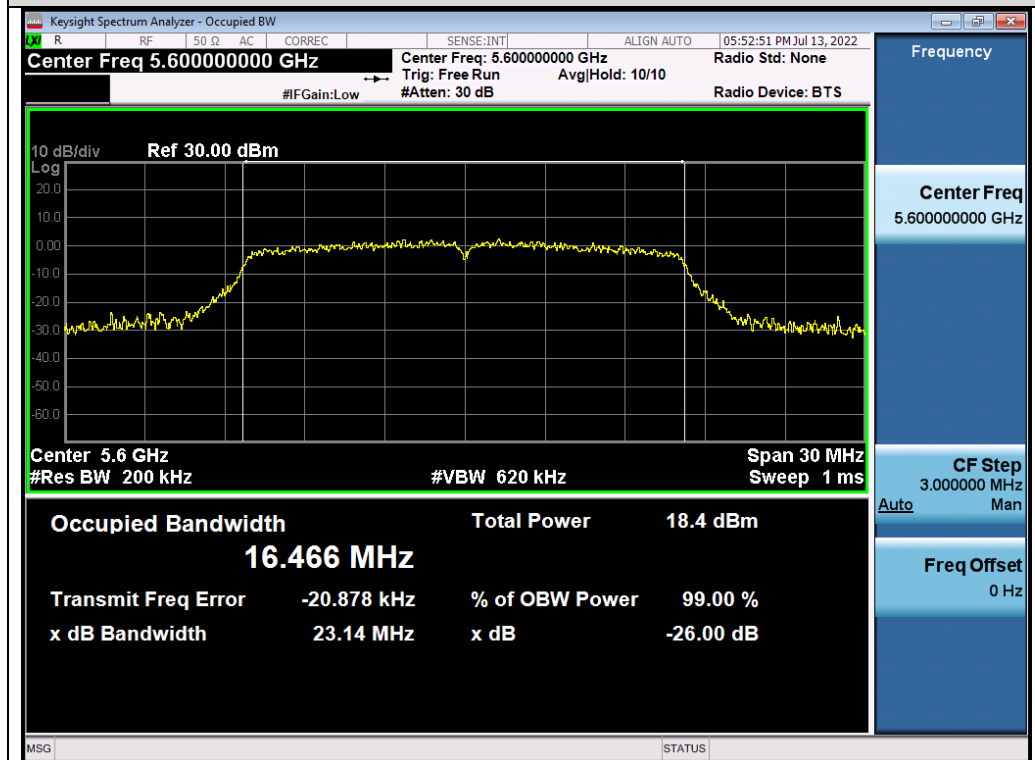


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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz

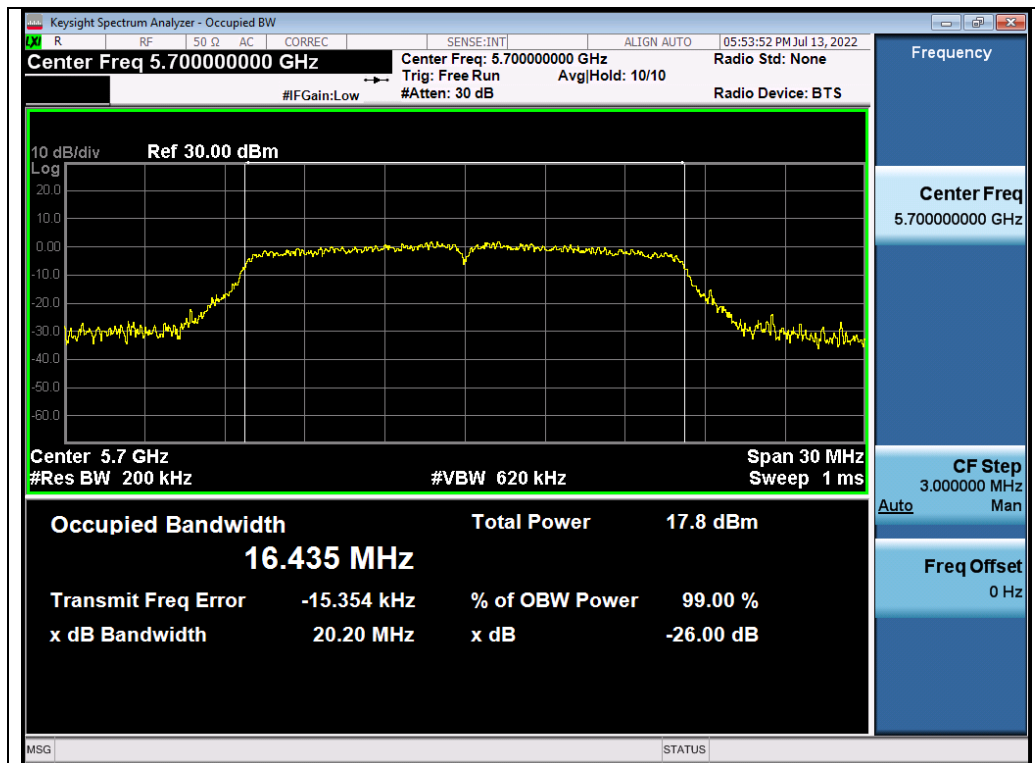


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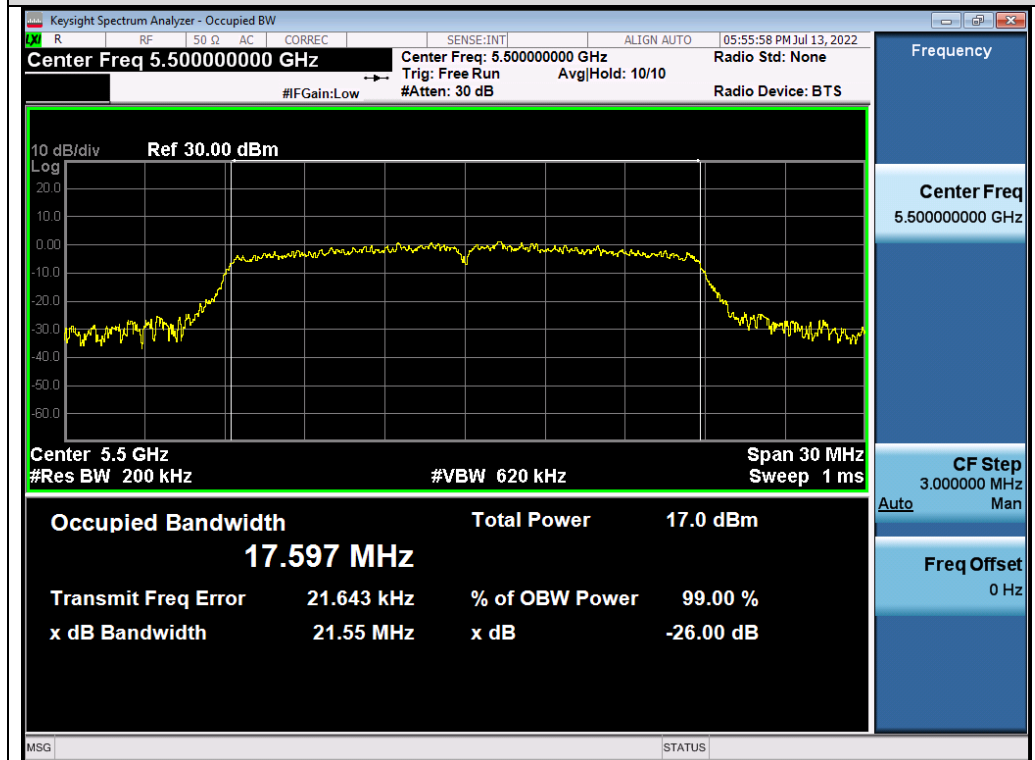


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Test_Graph_802.11a_ANT1_5700_6Mbps_OBW



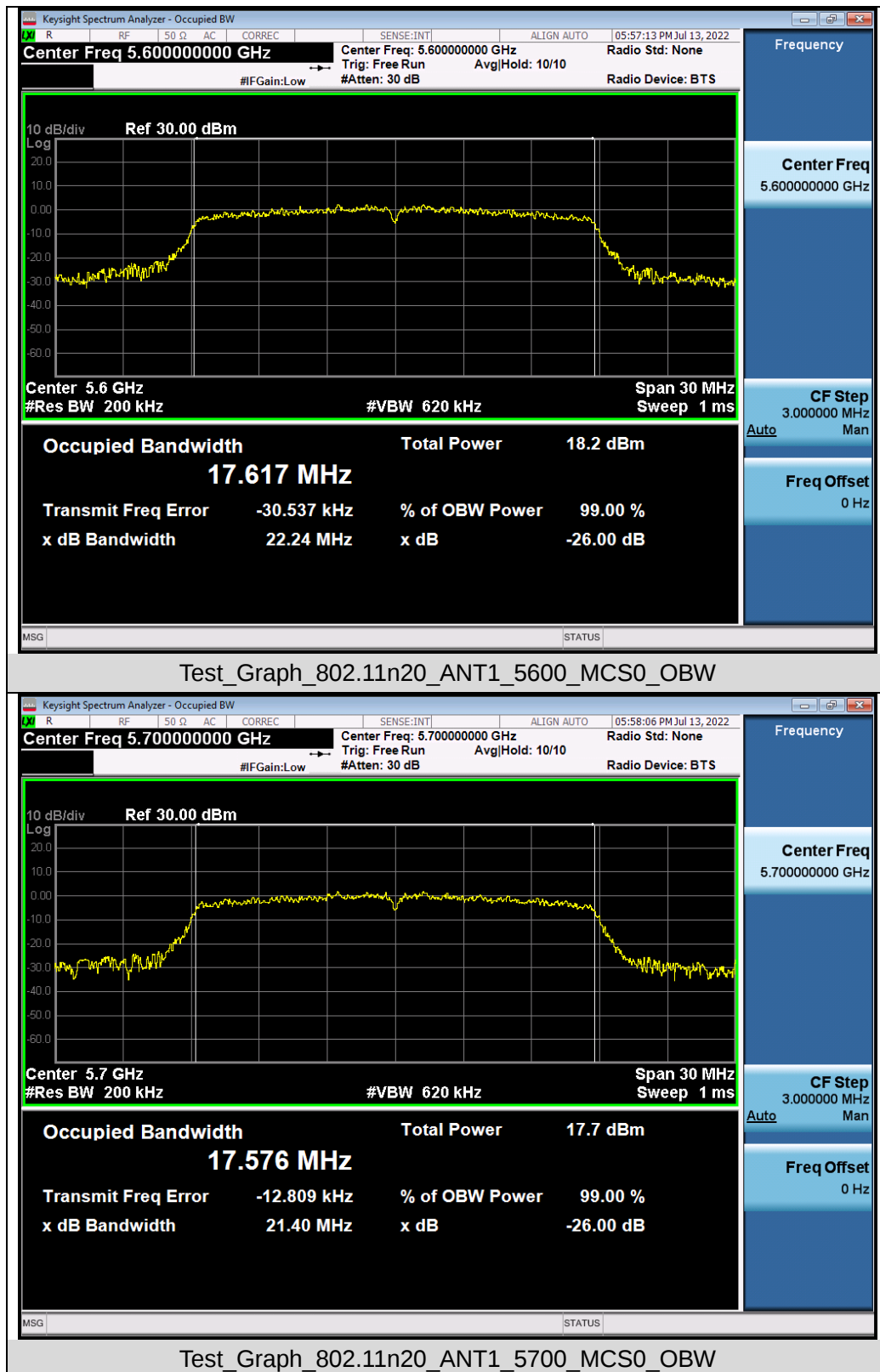
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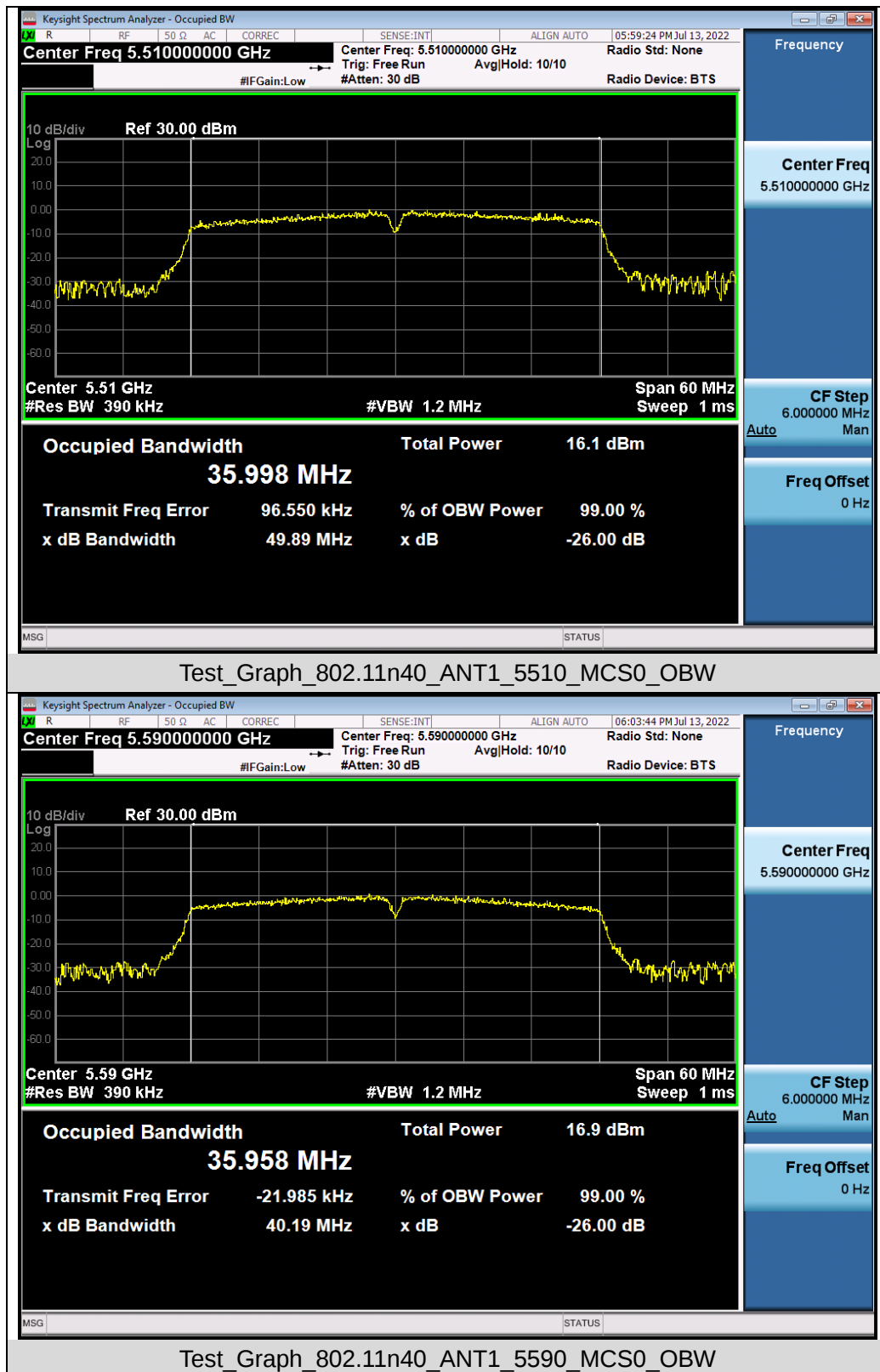
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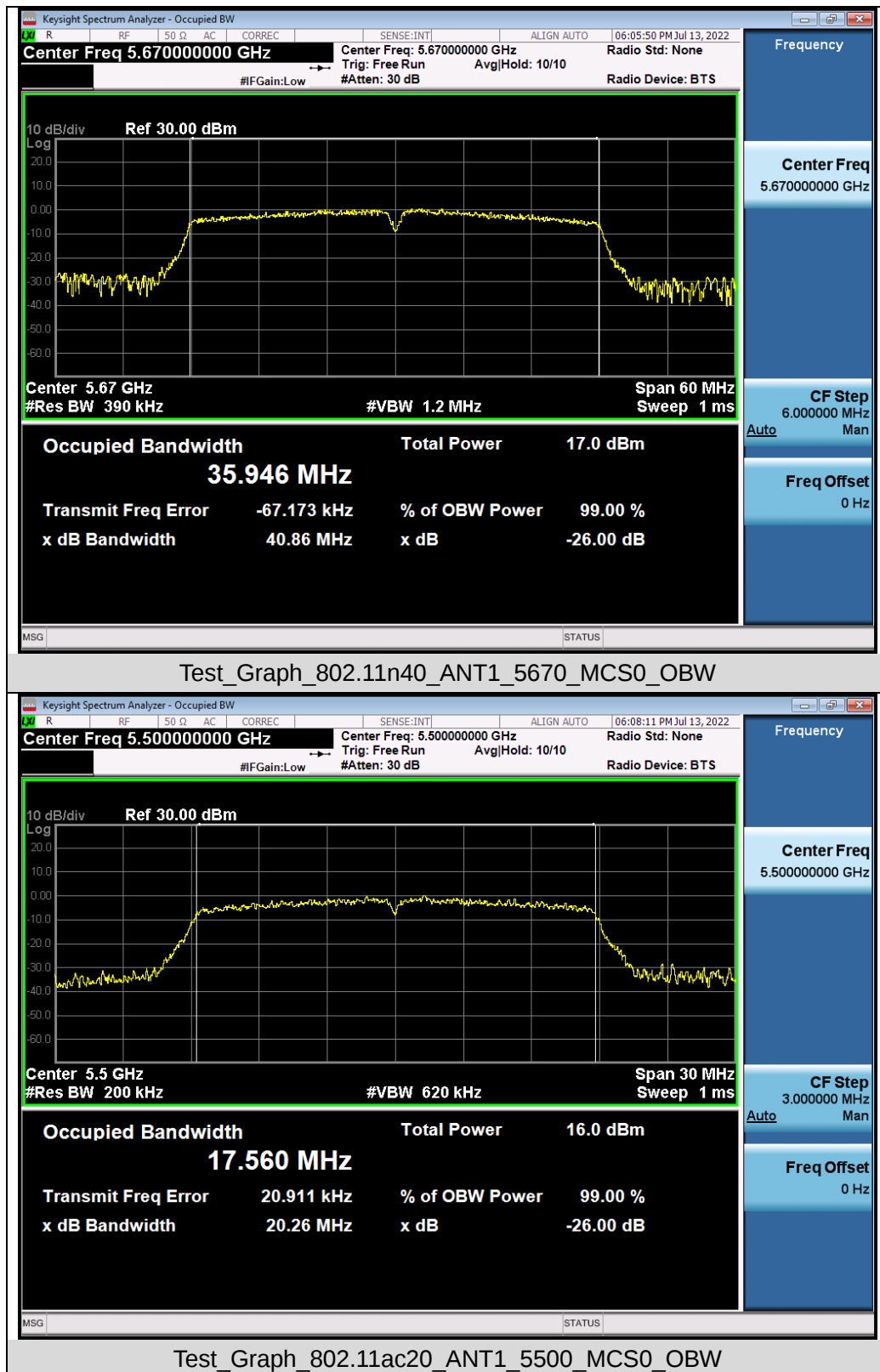
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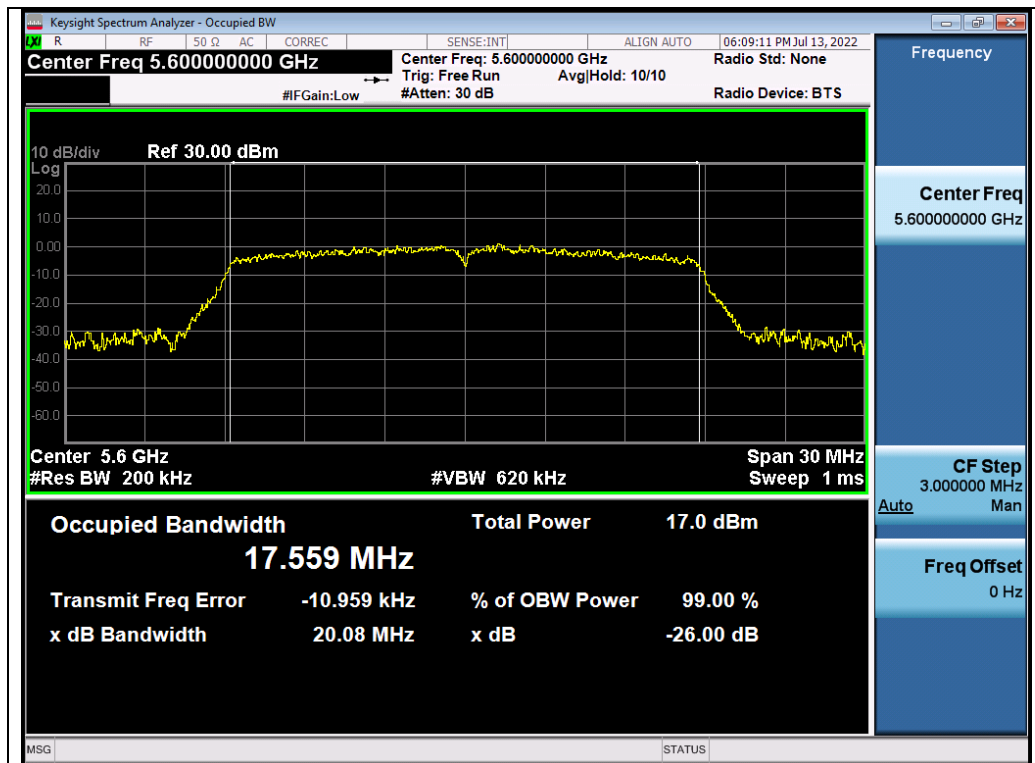
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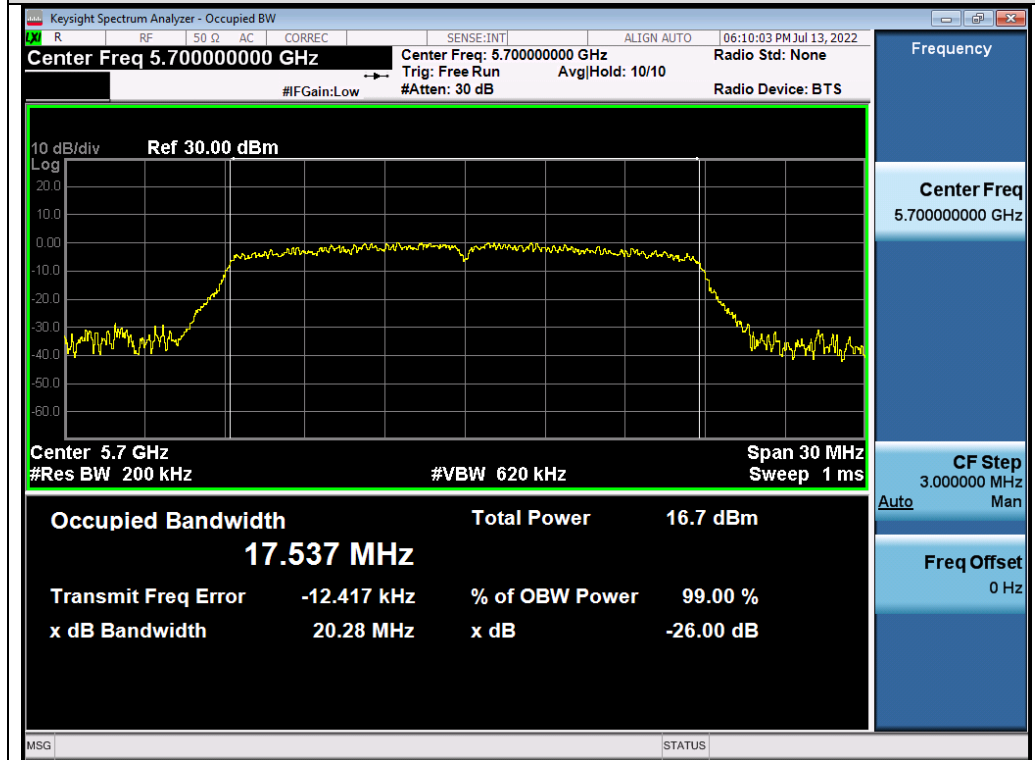
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Test_Graph_802.11ac20_ANT1_5600_MCS0_OBW



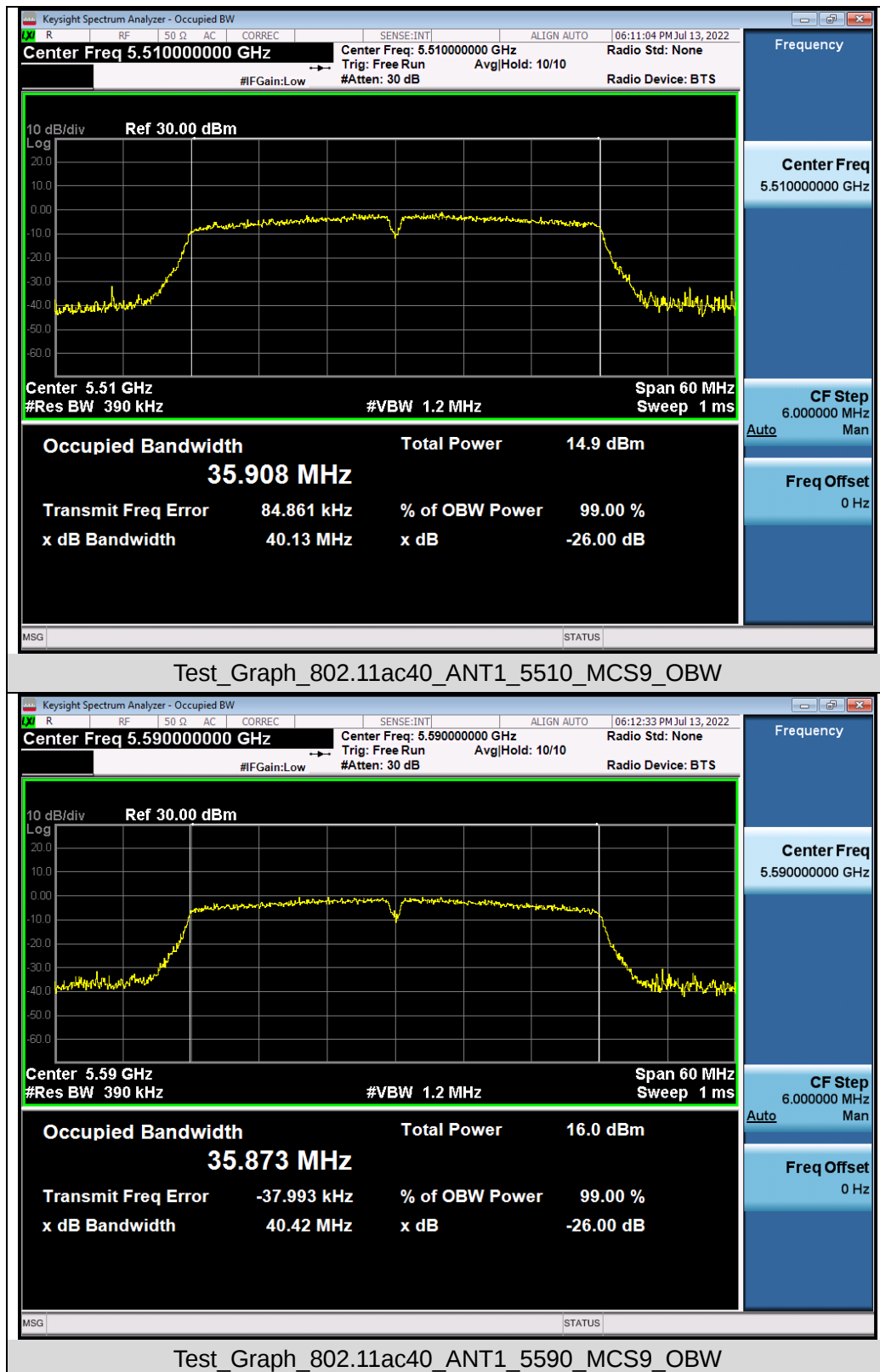
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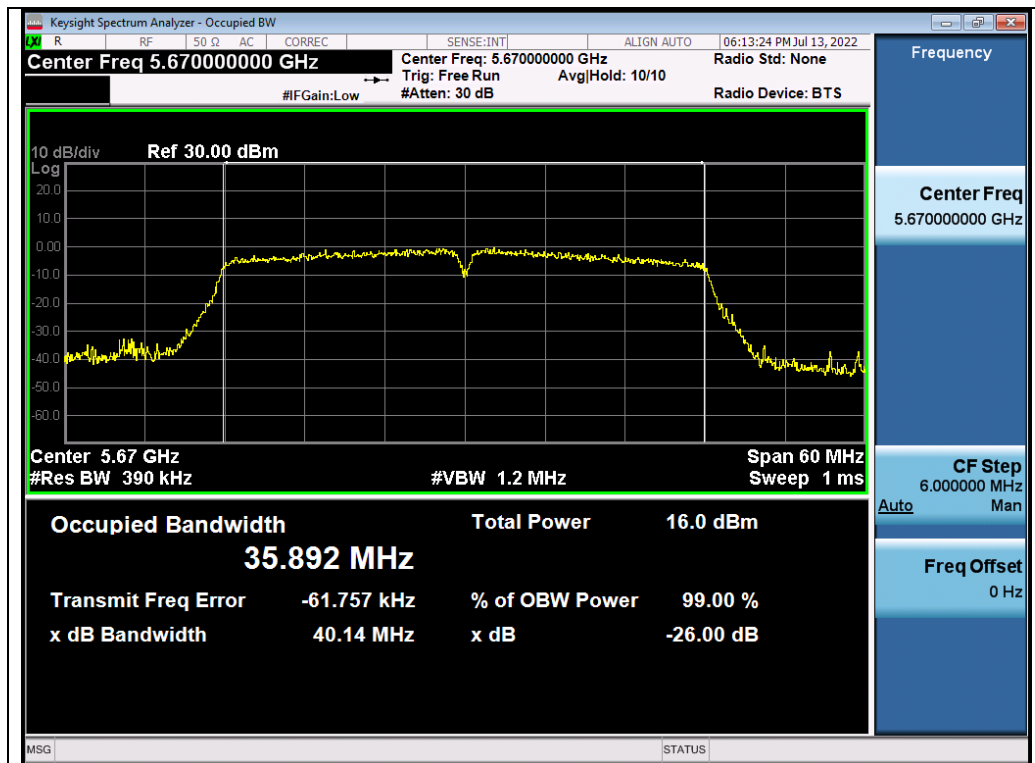
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Test_Graph_802.11ac40_ANT1_5670_MCS9_OBW



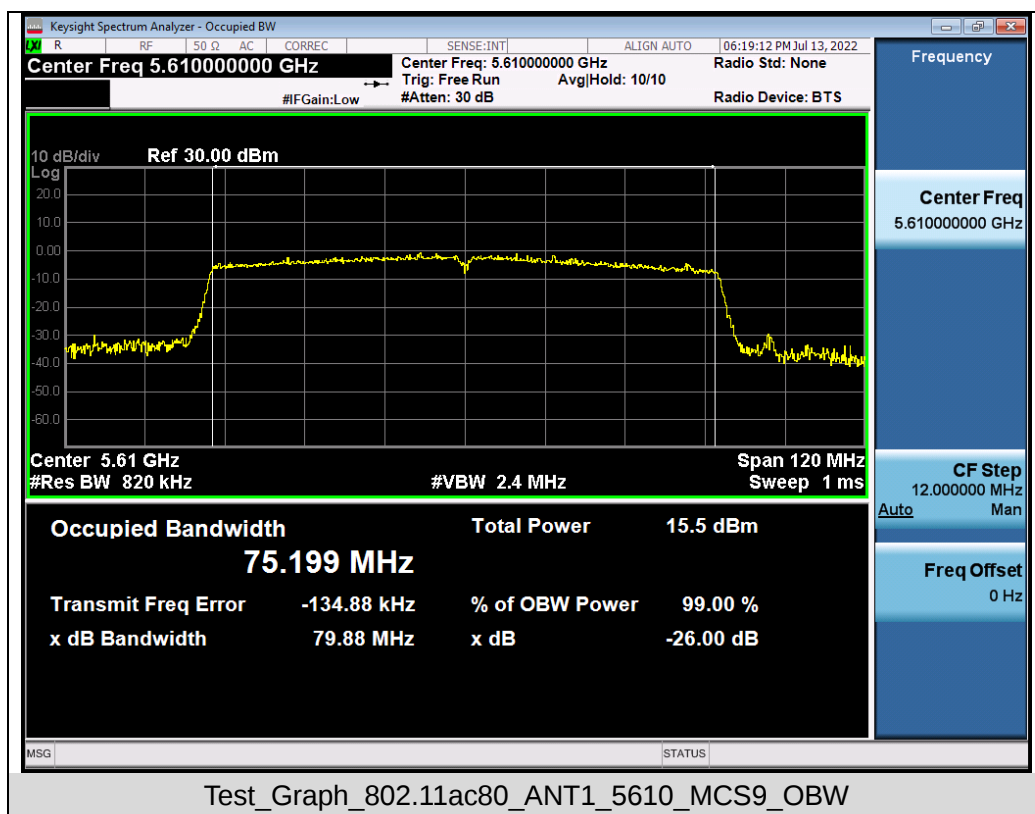
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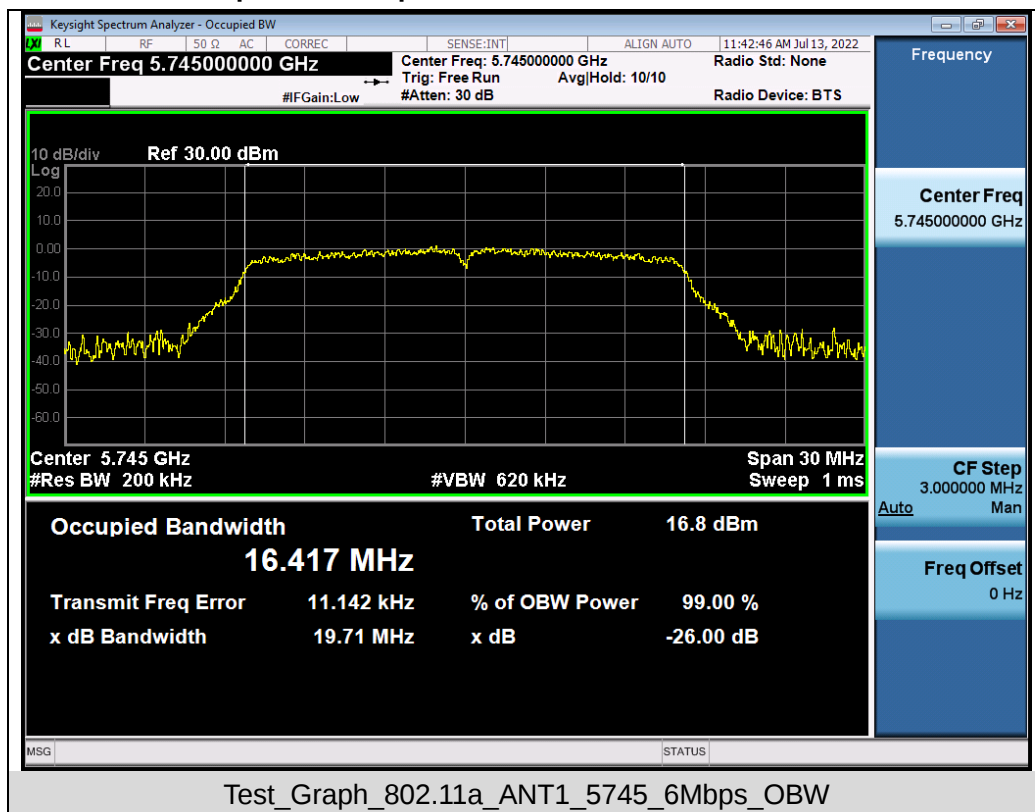
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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz

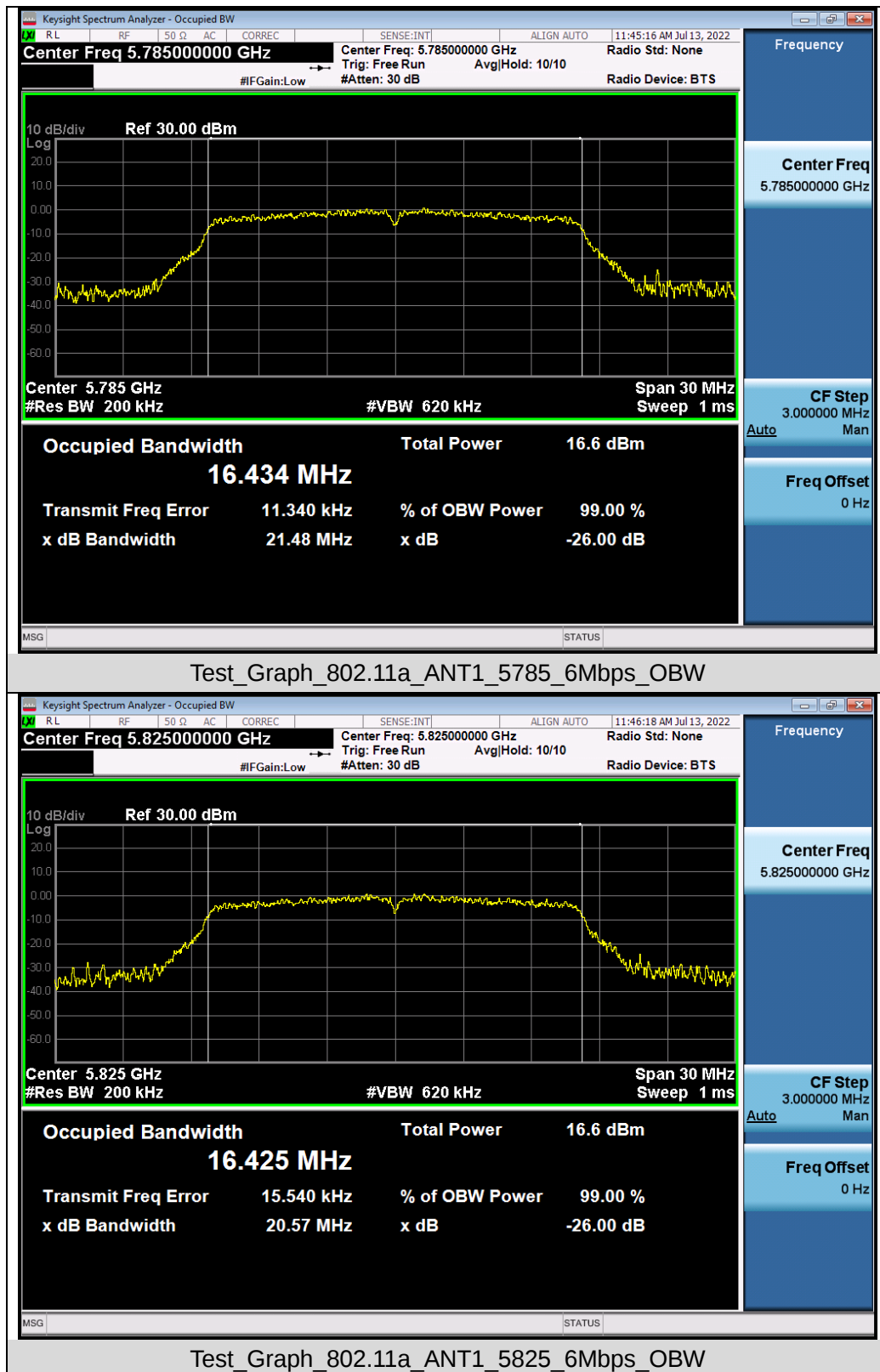


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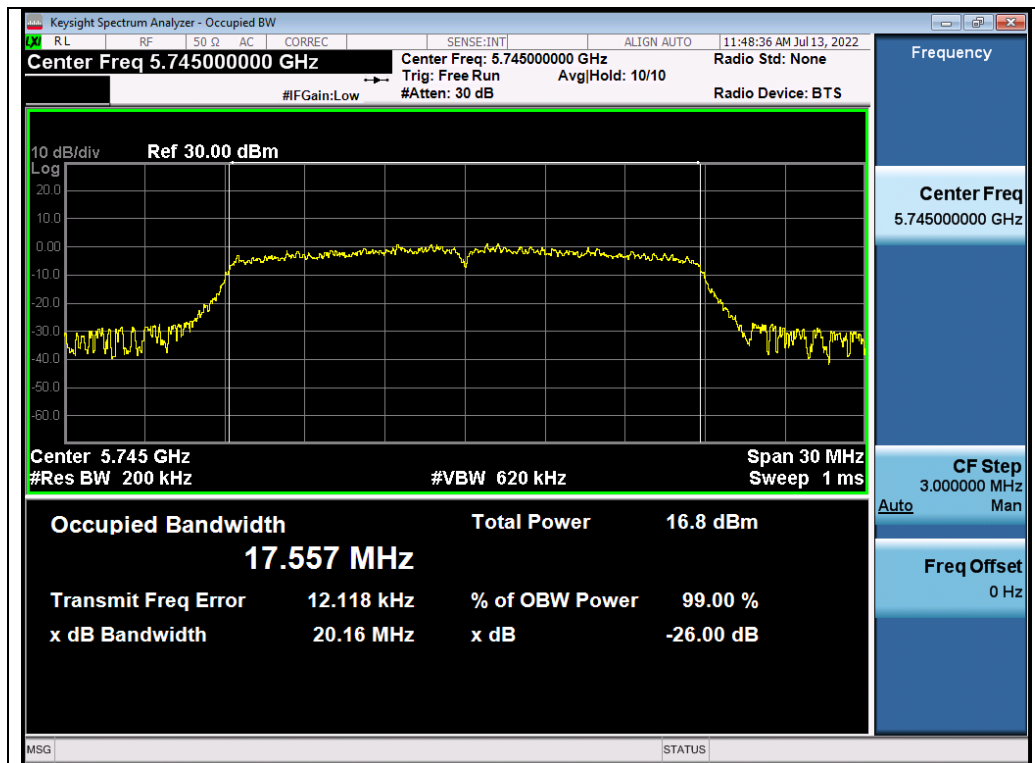
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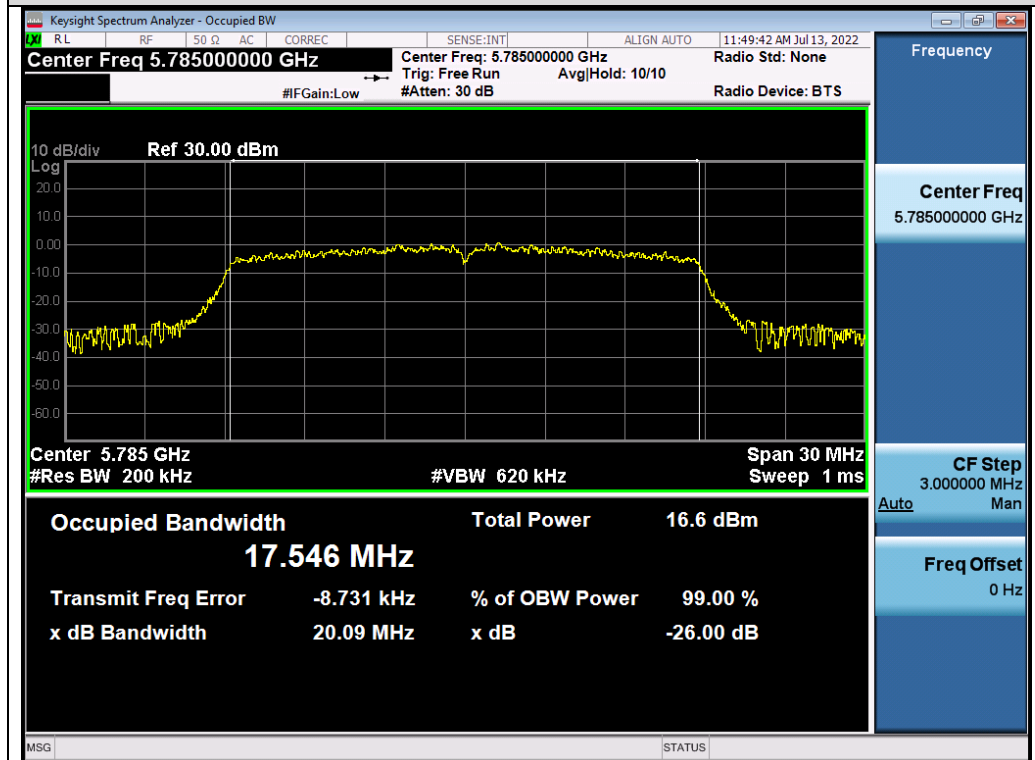
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Test_Graph_802.11n20_ANT1_5745_MCS0_OBW



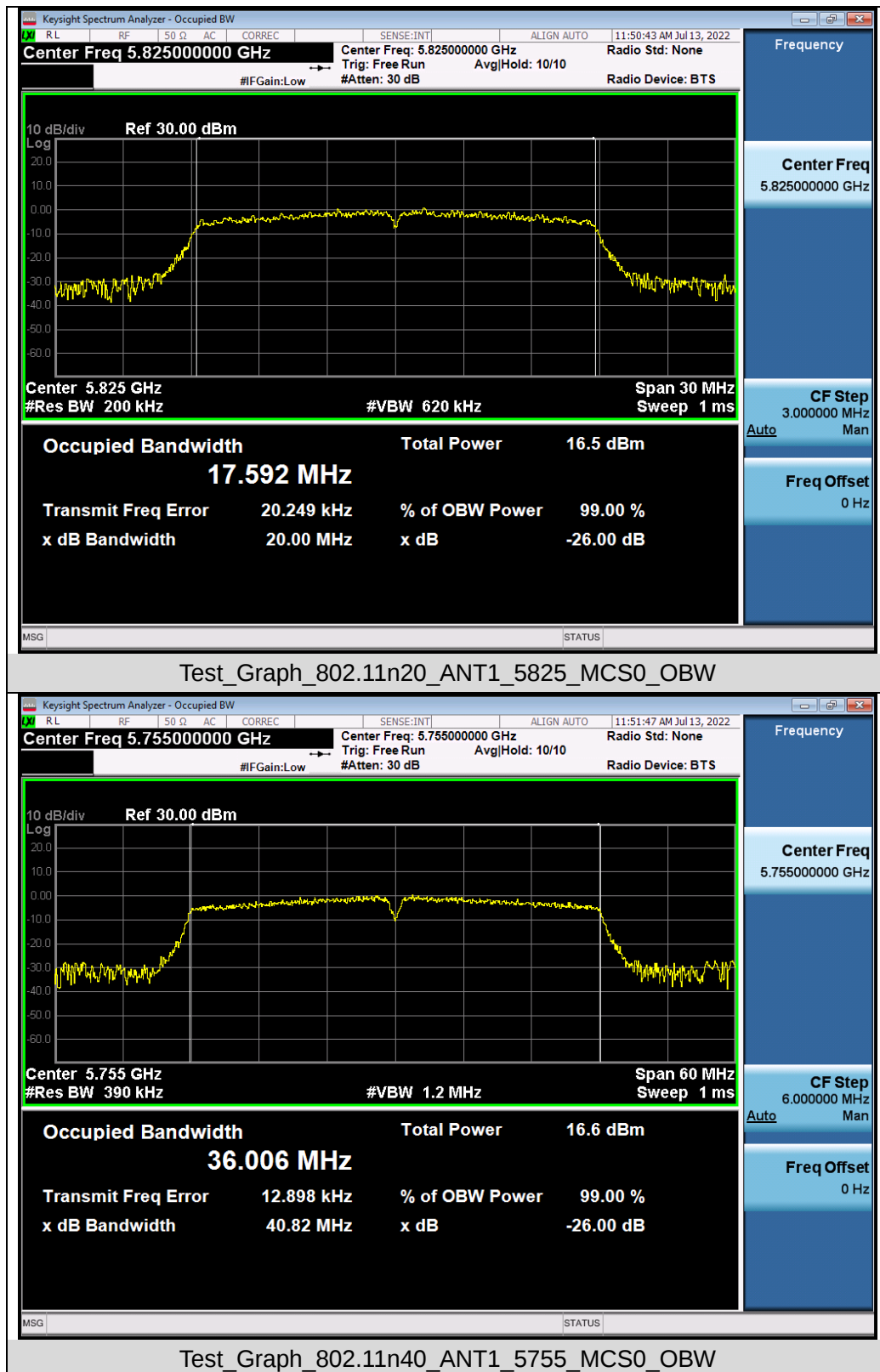
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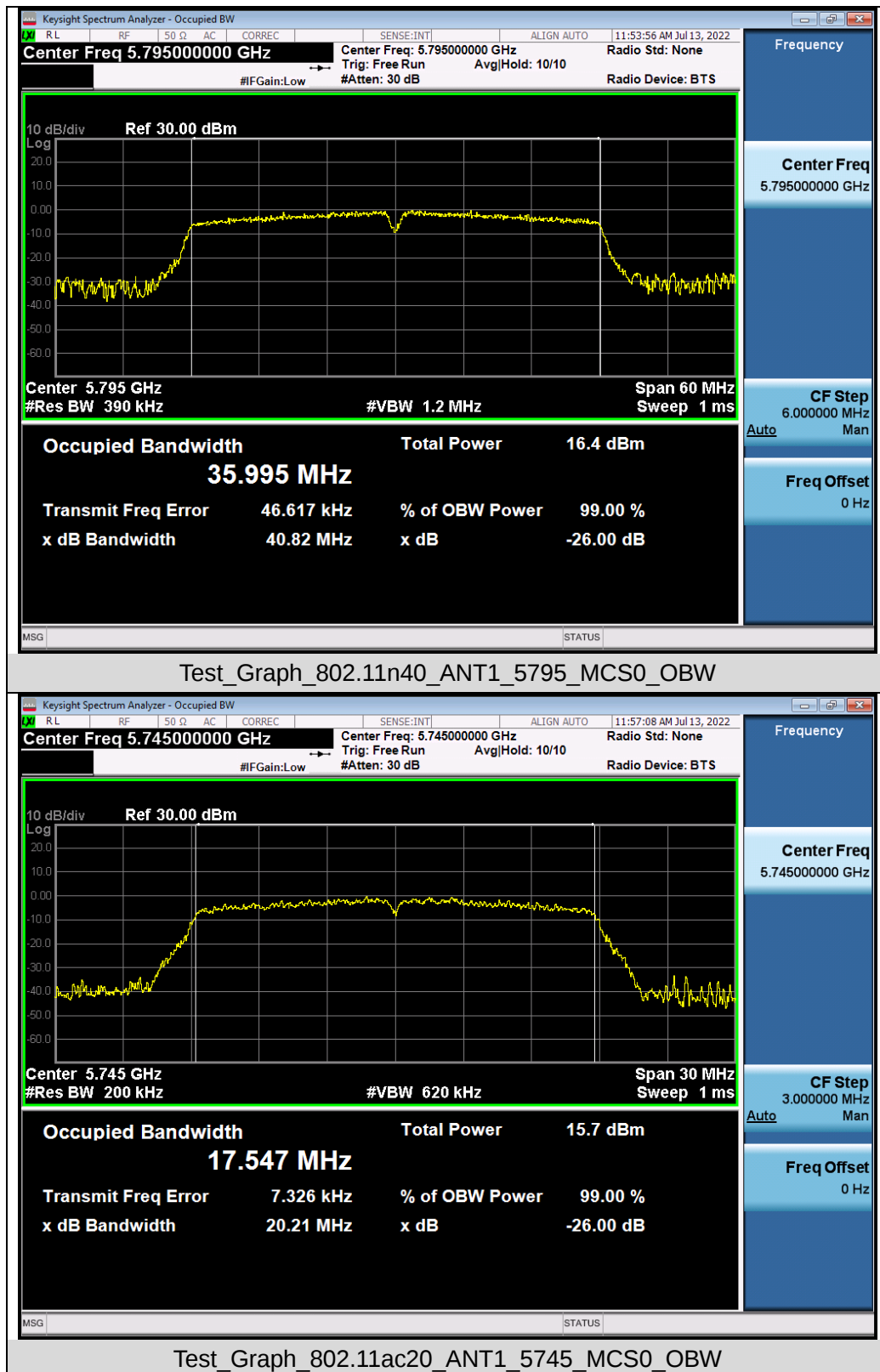
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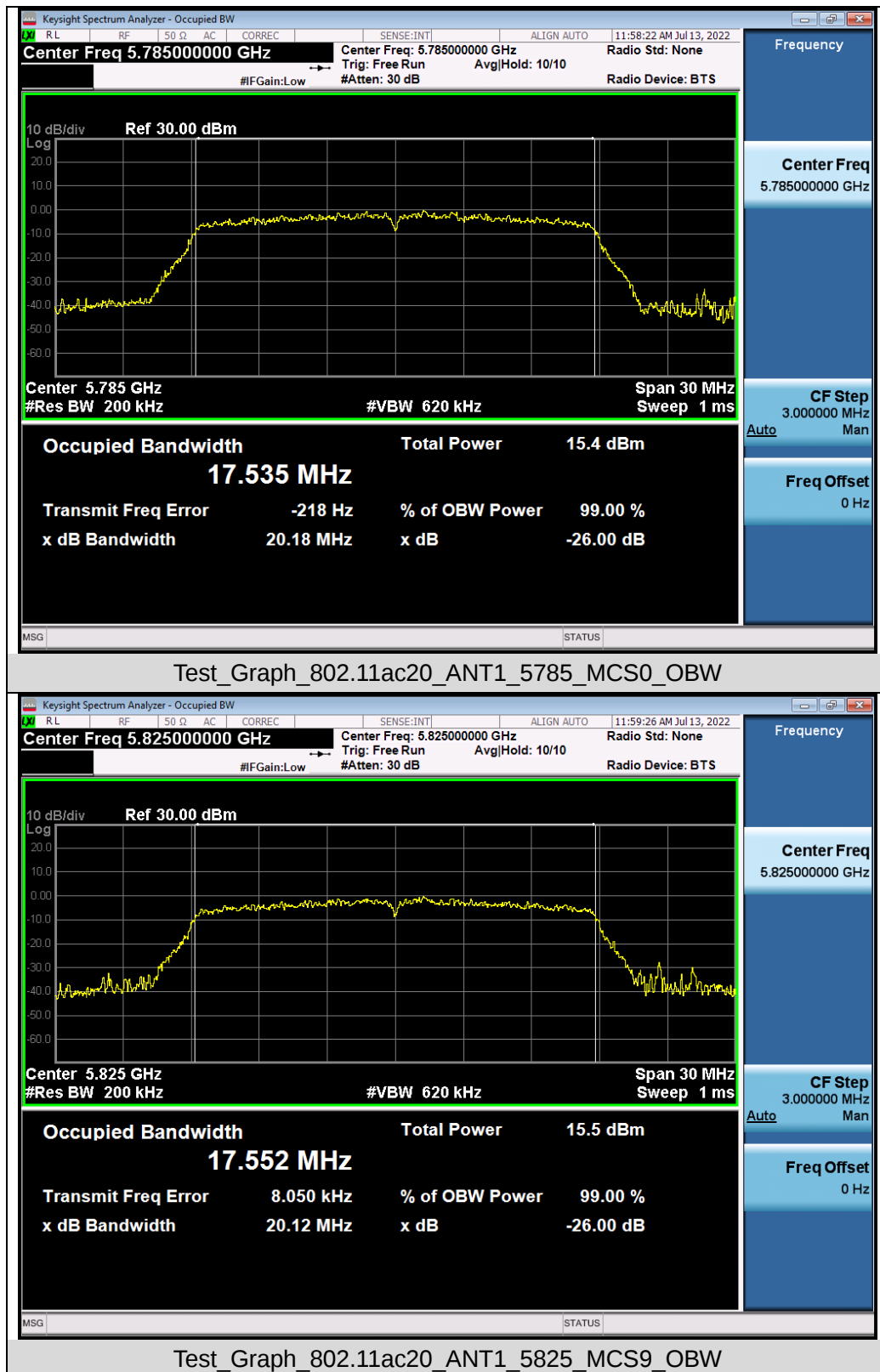
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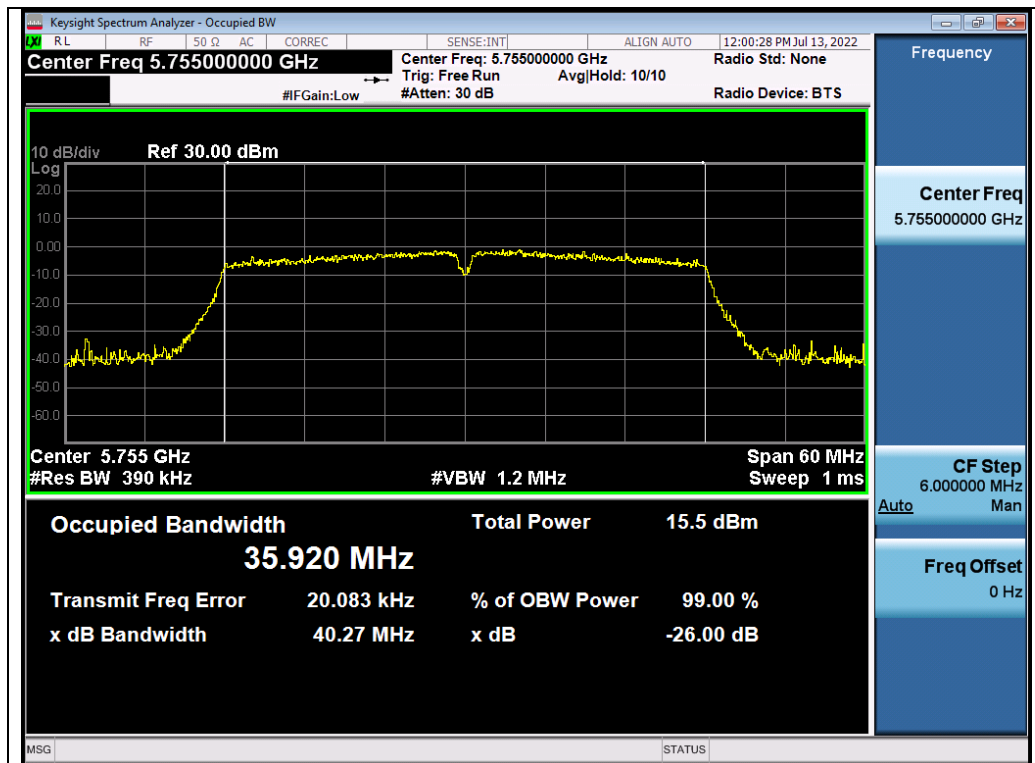
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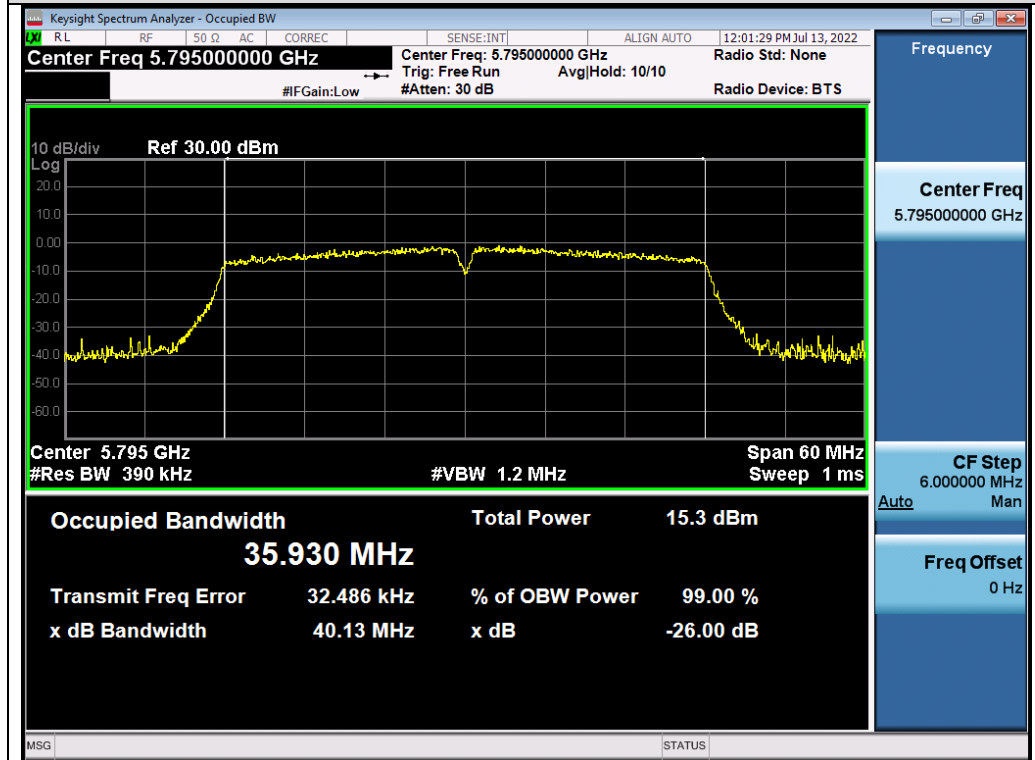
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Test_Graph_802.11ac40_ANT1_5755_MCS9_OBW



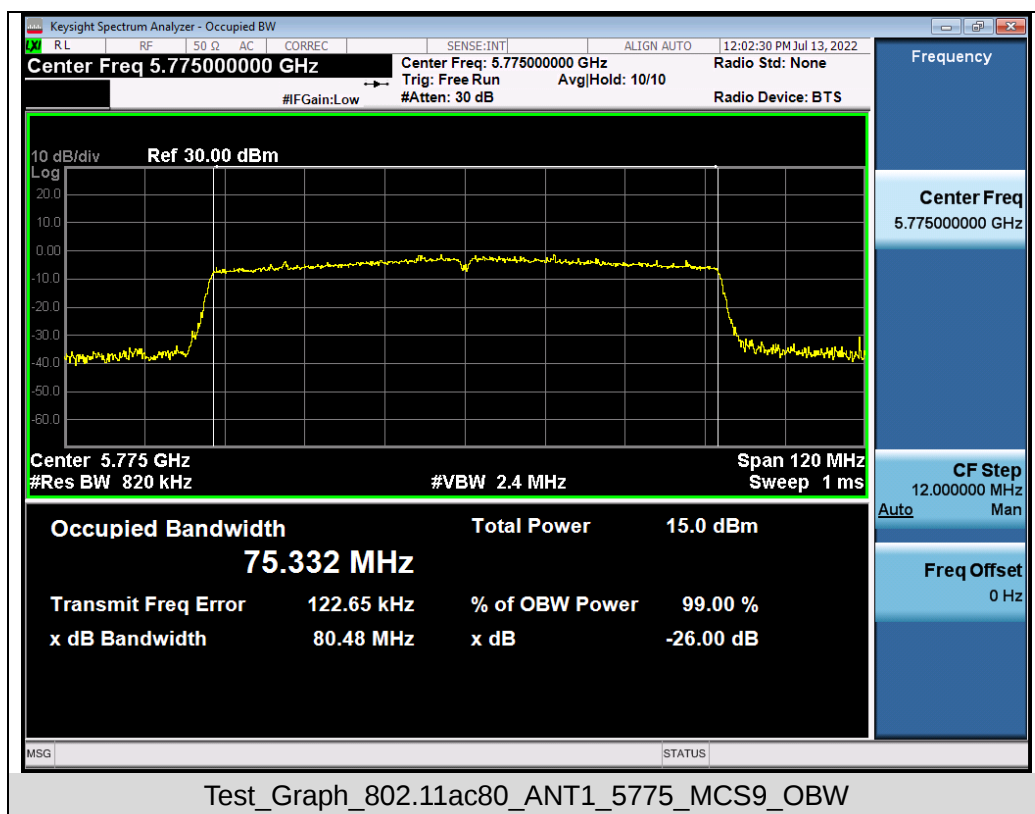
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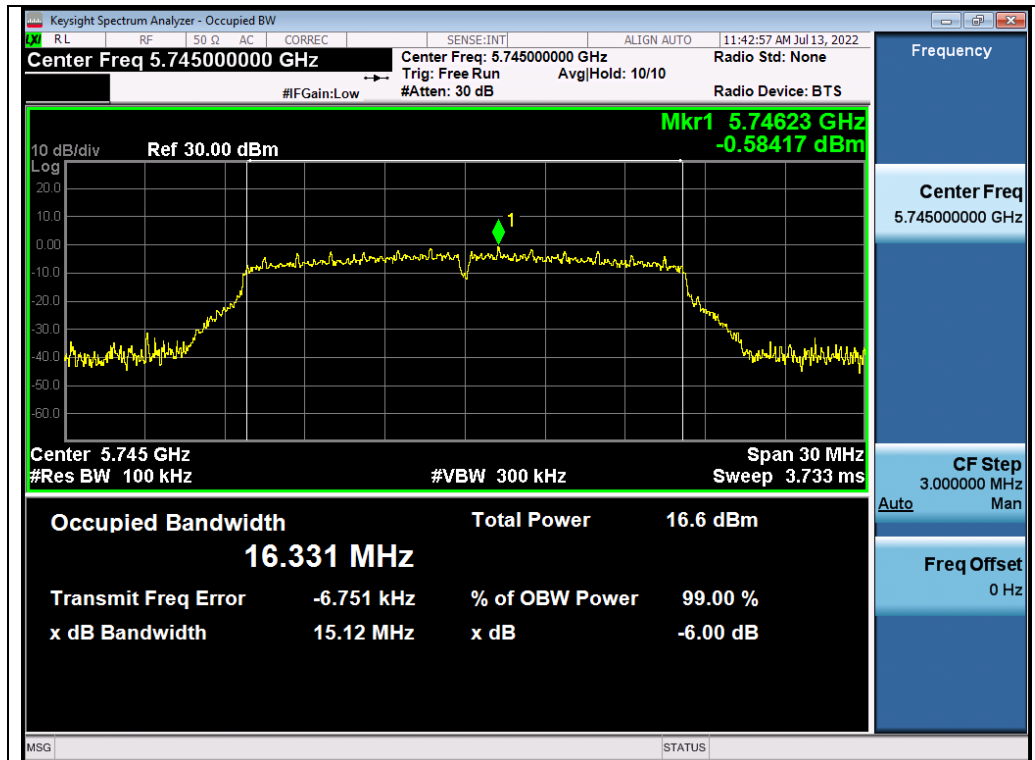
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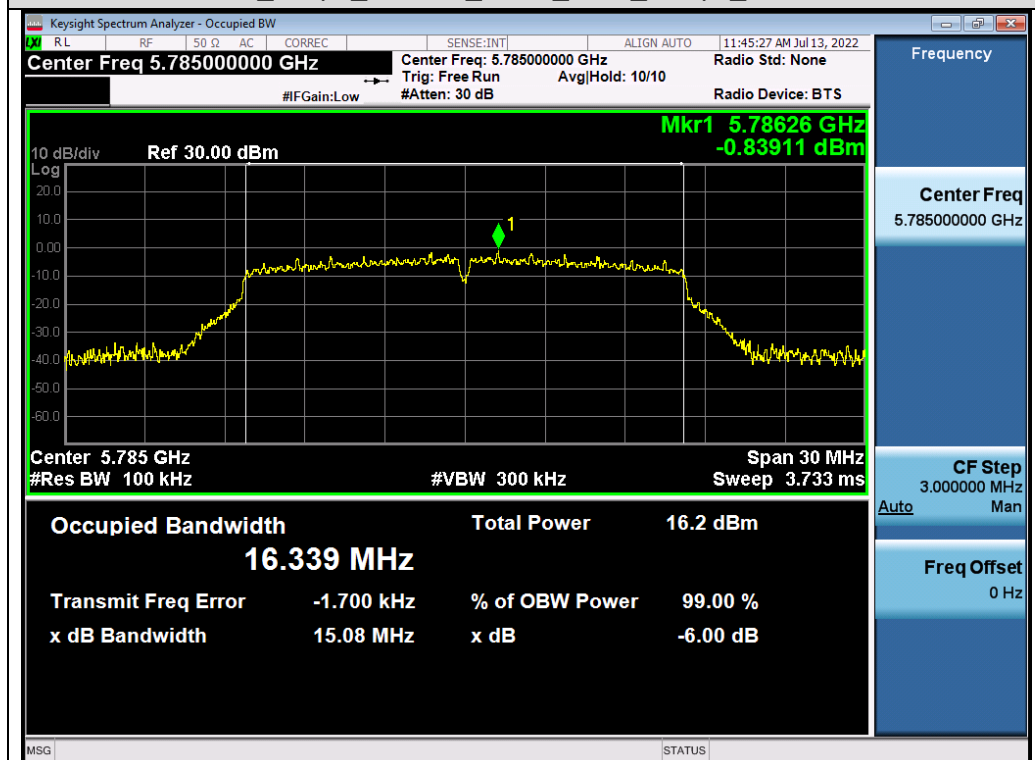
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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

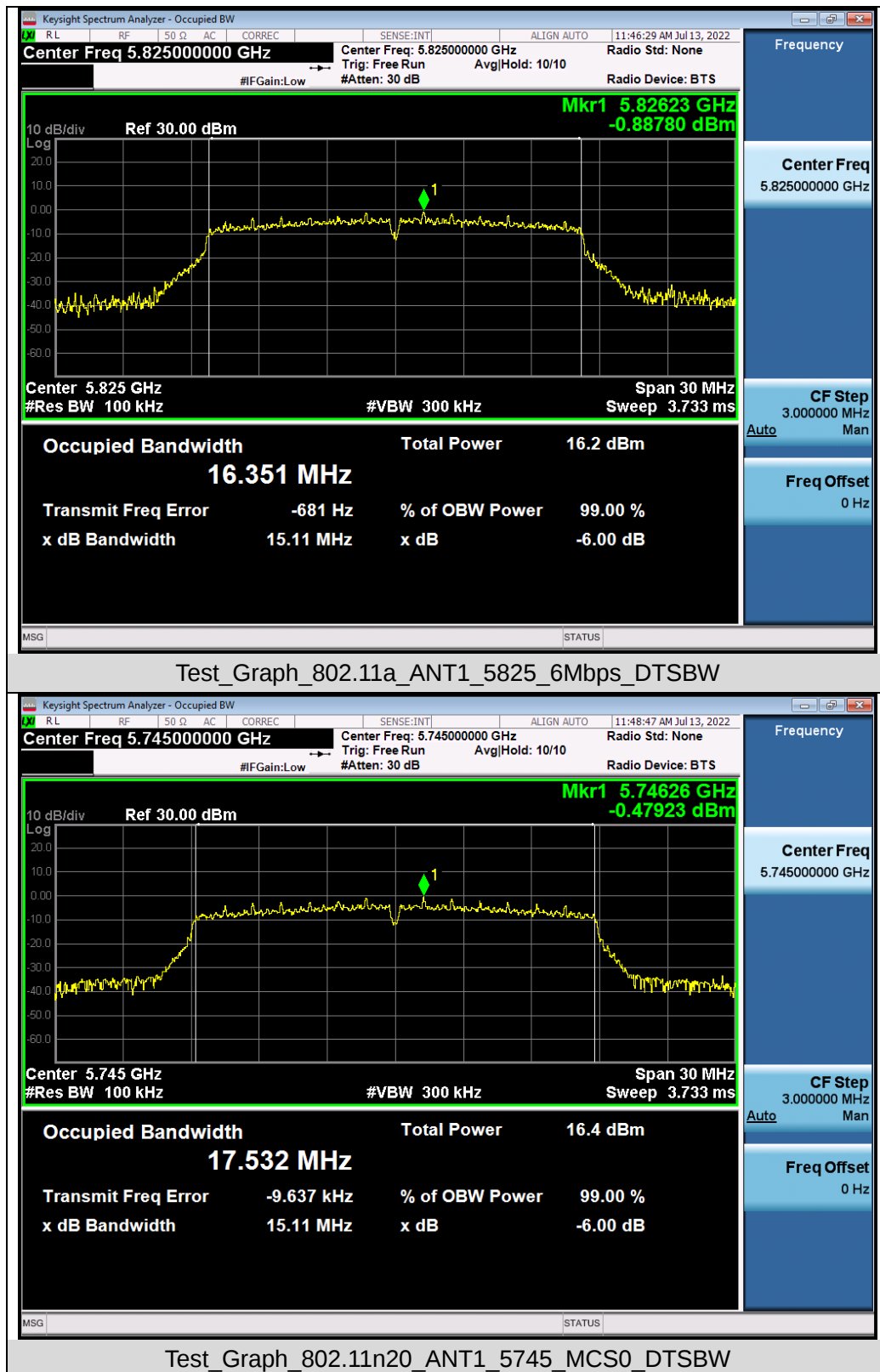


Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW

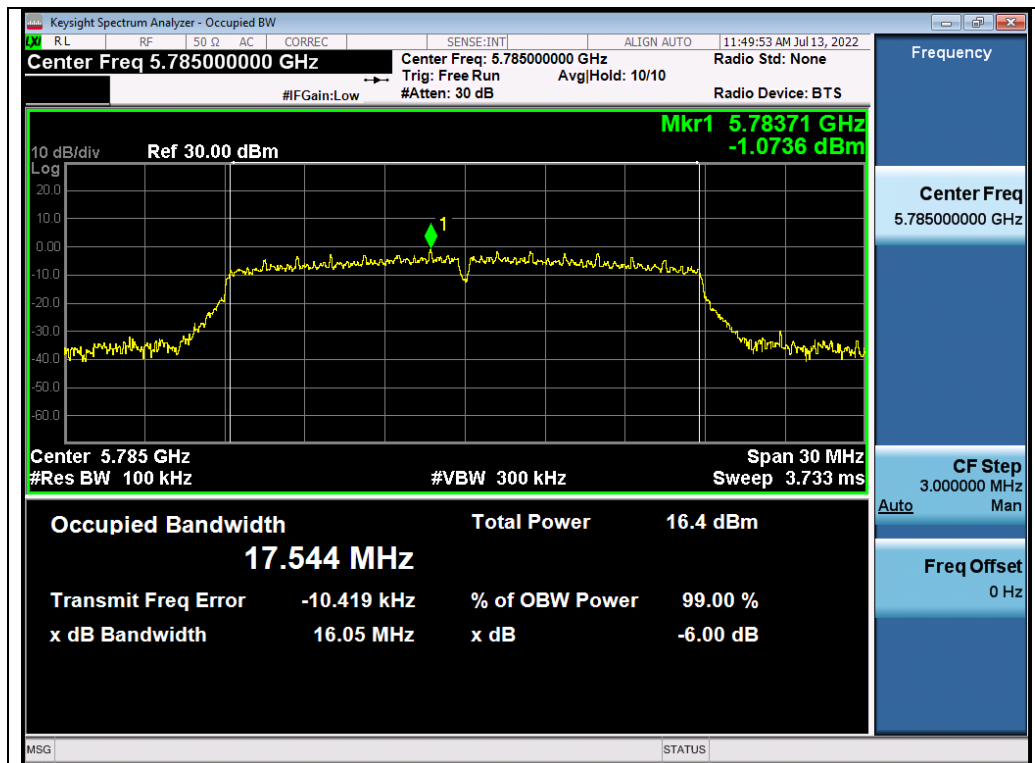


Test_Graph_802.11a_ANT1_5785_6Mbps_DTSBW

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Test_Graph_802.11n20_ANT1_5785_MCS0_DTSBW



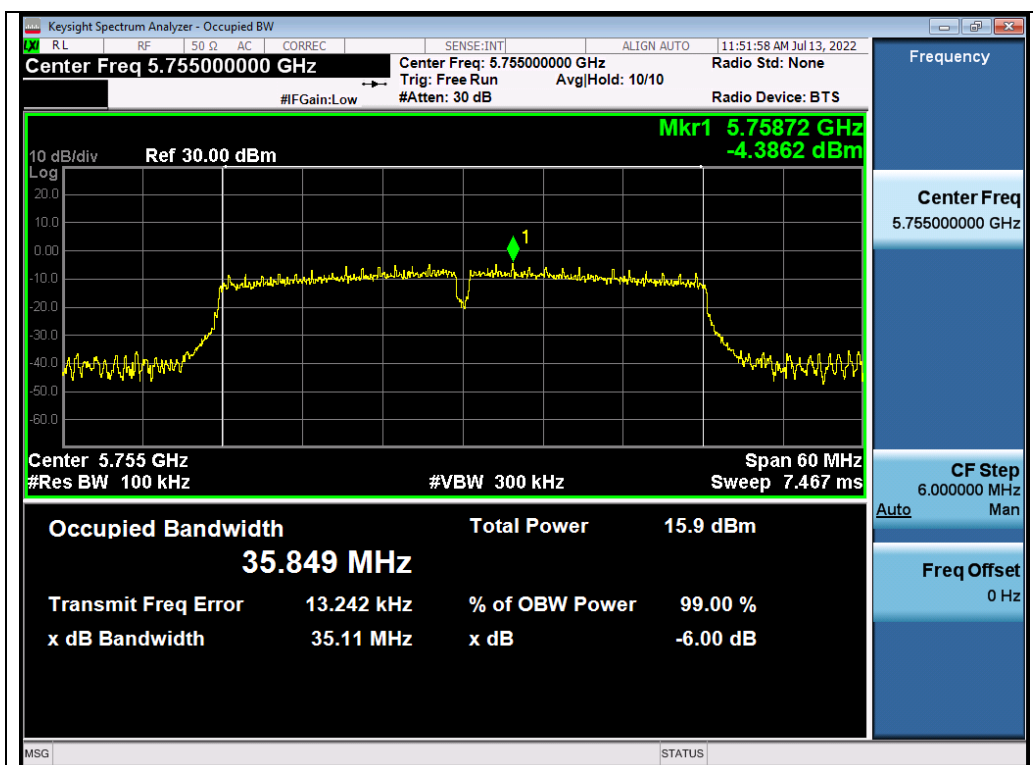
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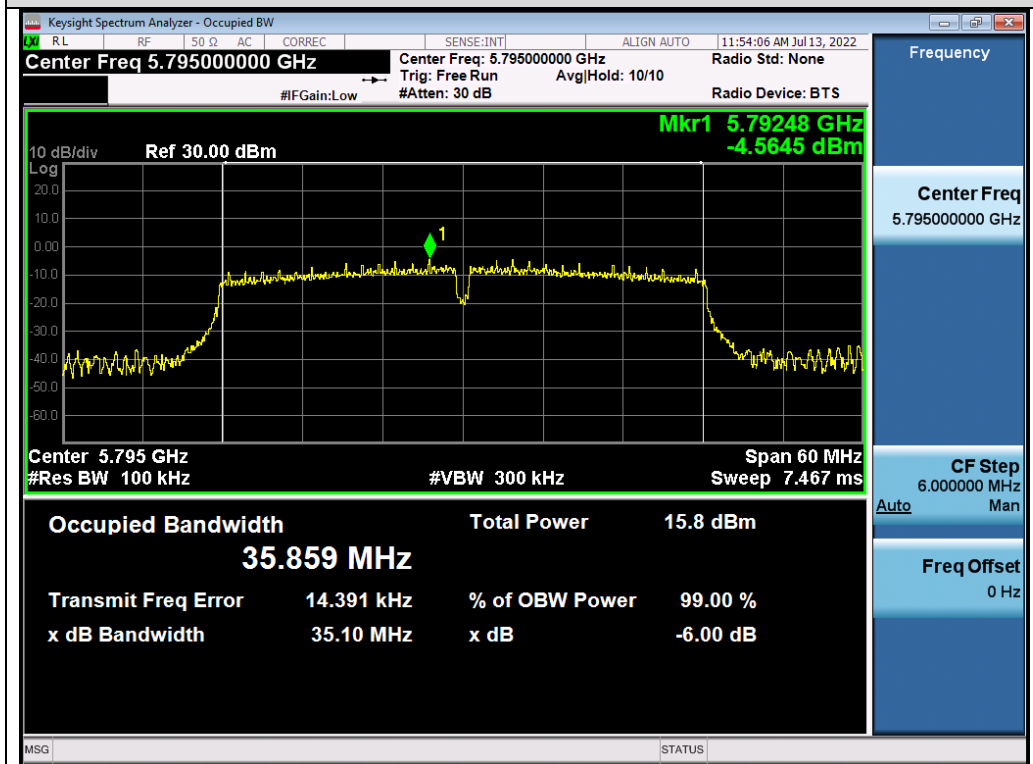
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Test_Graph_802.11n40_ANT1_5755_MCS0_DTSBW



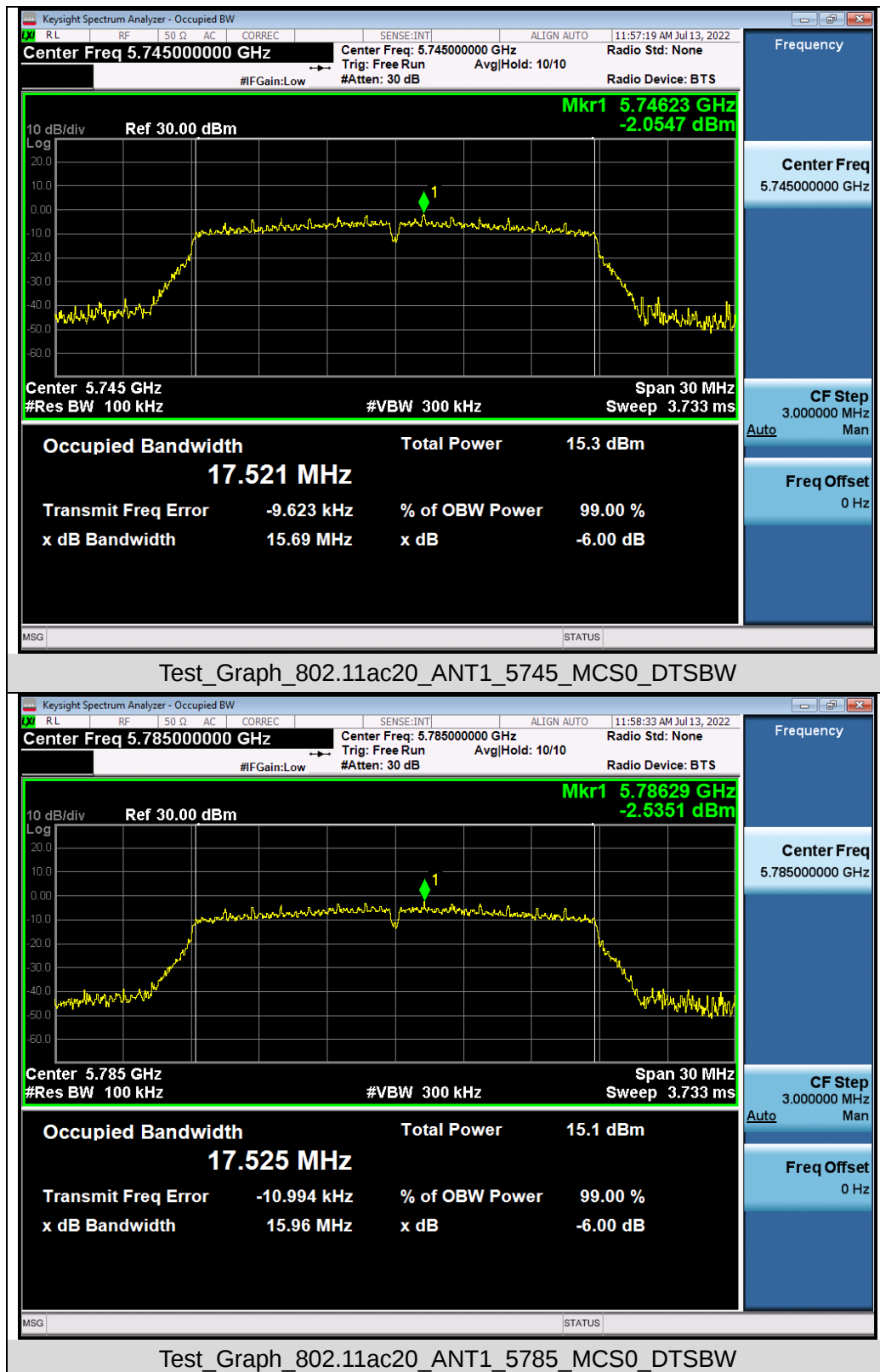
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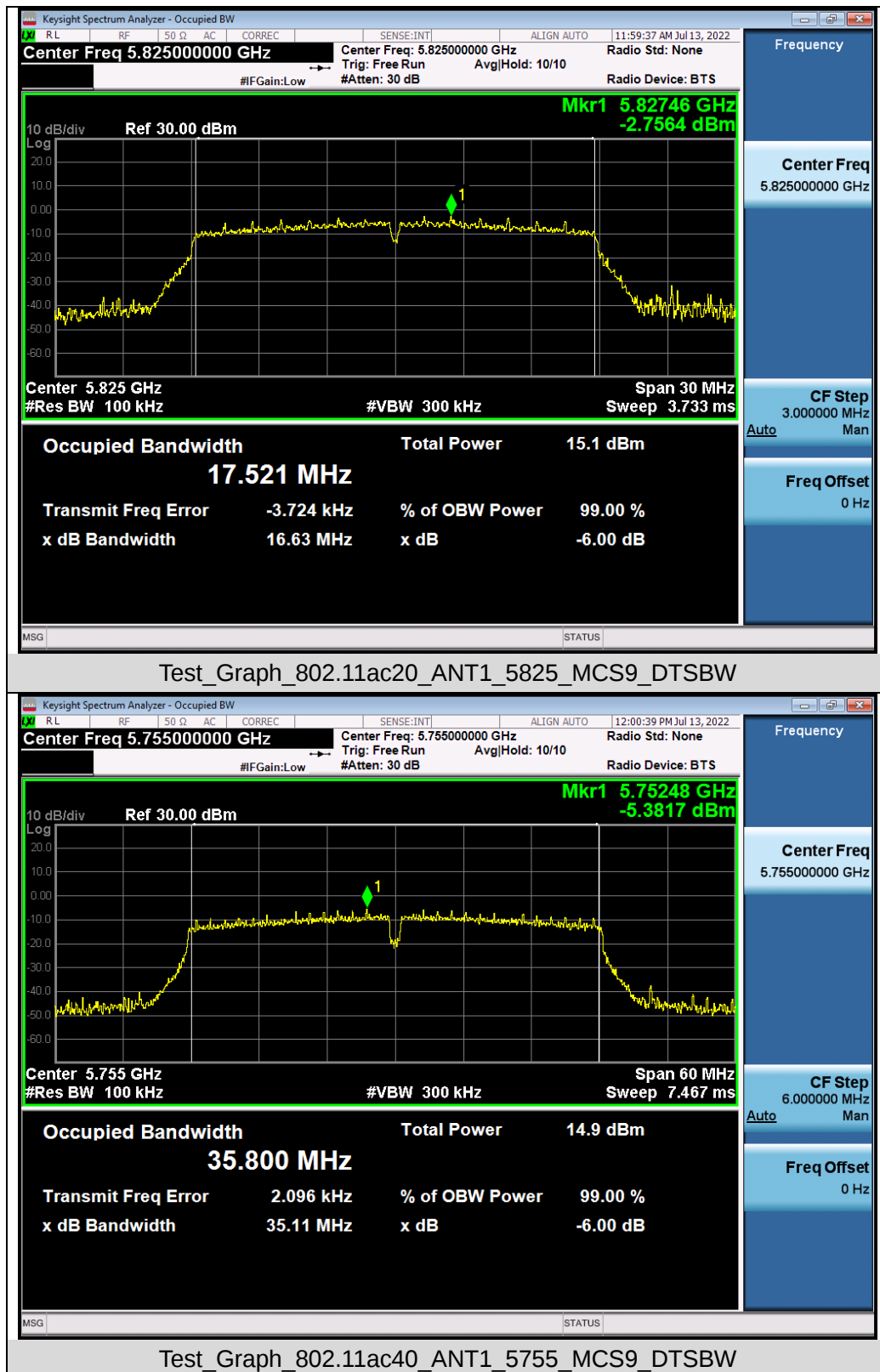
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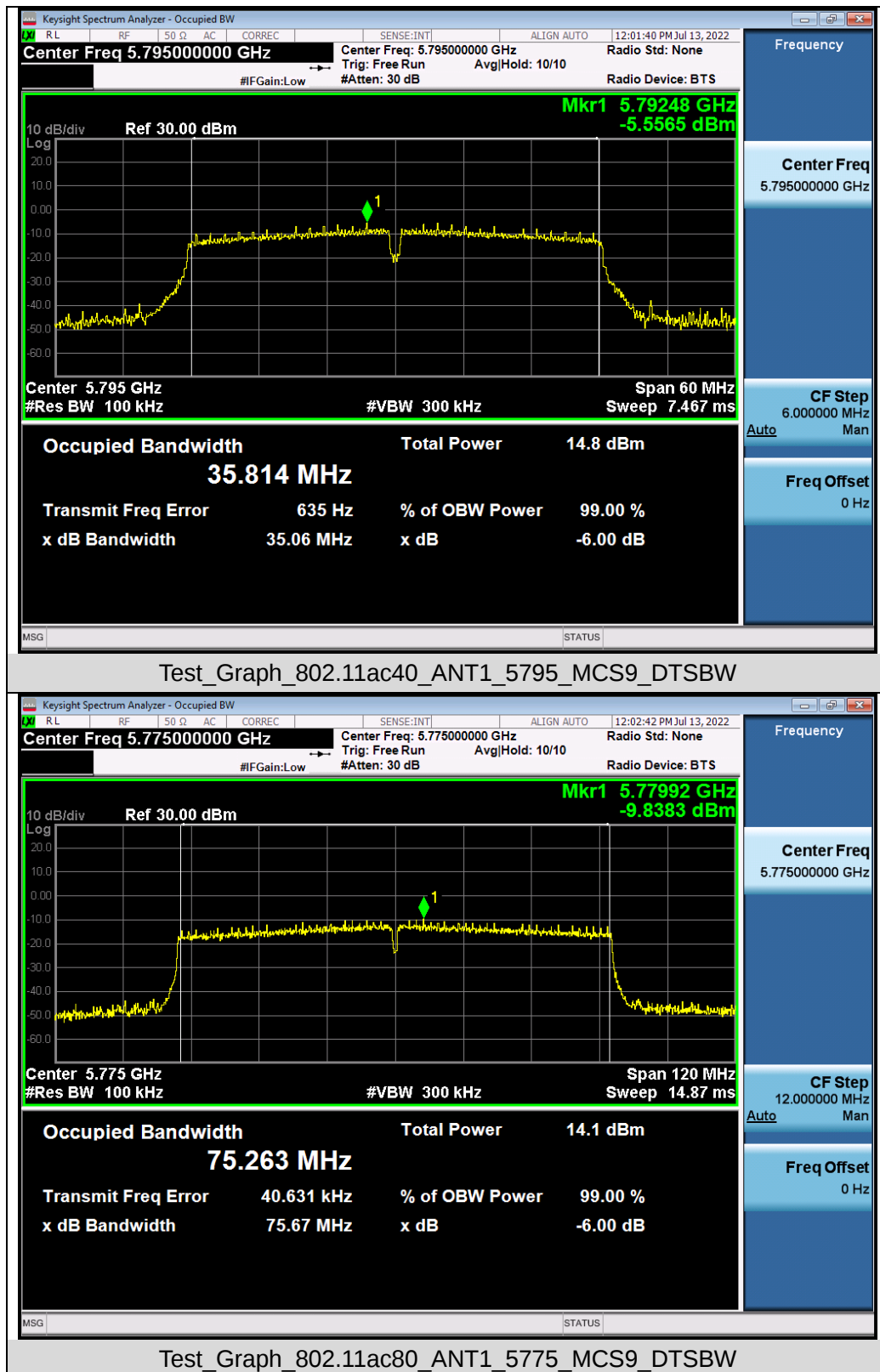
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9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

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	2.917	11	Pass
	5200	2.595	11	Pass
	5240	2.226	11	Pass
802.11n20	5180	2.449	11	Pass
	5200	2.126	11	Pass
	5240	2.037	11	Pass
802.11n40	5190	-0.565	11	Pass
	5230	-0.518	11	Pass
802.11ac20	5180	0.869	11	Pass
	5200	1.069	11	Pass
	5240	1.022	11	Pass
802.11ac40	5190	-1.702	11	Pass
	5230	-1.412	11	Pass
802.11ac80	5210	-4.358	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	1.992	11	Pass
	5300	1.787	11	Pass
	5320	1.455	11	Pass
802.11n20	5260	1.522	11	Pass
	5300	2.243	11	Pass
	5320	2.284	11	Pass
802.11n40	5270	-0.586	11	Pass
	5310	-0.744	11	Pass
802.11ac20	5260	1.301	11	Pass
	5300	1.188	11	Pass
	5320	1.104	11	Pass
802.11ac40	5270	-1.696	11	Pass
	5310	-1.470	11	Pass
802.11ac80	5290	-4.233	11	Pass

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	0.942	11	Pass
	5600	2.384	11	Pass
	5700	1.877	11	Pass
802.11n20	5500	0.821	11	Pass
	5600	1.795	11	Pass
	5700	1.534	11	Pass
802.11n40	5510	-2.535	11	Pass
	5590	-1.681	11	Pass
	5670	-1.936	11	Pass
802.11ac20	5500	-0.198	11	Pass
	5600	0.853	11	Pass
	5700	0.470	11	Pass
802.11ac40	5510	-3.778	11	Pass
	5590	-2.781	11	Pass
	5670	-2.889	11	Pass
802.11ac80	5610	-5.652	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	-8.161	-1.171	30	Pass
	5785	-8.35	-1.360	30	Pass
	5825	-8.278	-1.288	30	Pass
802.11n20	5745	-8.274	-1.284	30	Pass
	5785	-8.284	-1.294	30	Pass
	5825	-8.886	-1.896	30	Pass
802.11n40	5755	-11.171	-4.181	30	Pass
	5795	-11.471	-4.481	30	Pass
802.11ac20	5745	-9.456	-2.466	30	Pass
	5785	-9.397	-2.407	30	Pass
	5825	-9.906	-2.916	30	Pass
802.11ac40	5755	-11.849	-4.859	30	Pass
	5795	-12.509	-5.519	30	Pass
802.11ac80	5775	-14.786	-7.796	30	Pass

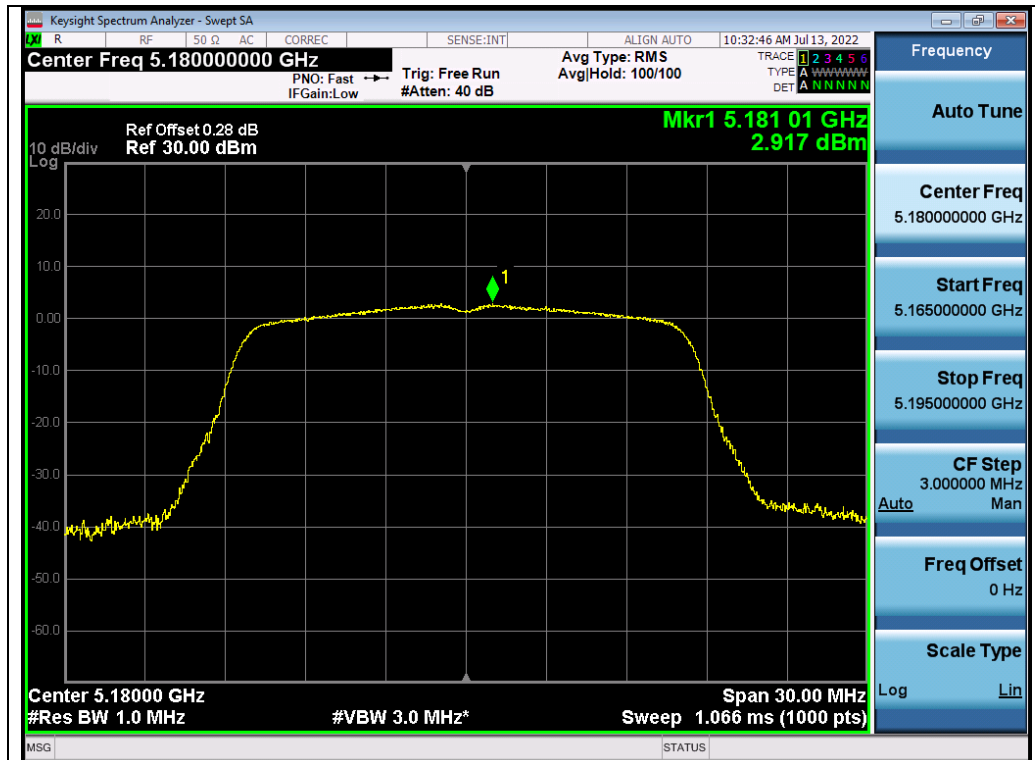
Note:1. Power density(dBm/500kHz) = Power density(dBm/100kHz) +10*log(500/100).

2.The Total PSD (dBm/500kHz) = $10^{\frac{\text{Ant 1 PSD}}{10}} + 10^{\frac{\text{Ant 2 PSD}}{10}} + 10^{\frac{\text{Ant 3 PSD}}{10}} + 10^{\frac{\text{Ant 4 PSD}}{10}}$ (dBm/500kHz)

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Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

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



Test_Graph_802.11a_ANT1_5180_6Mbps_PSD

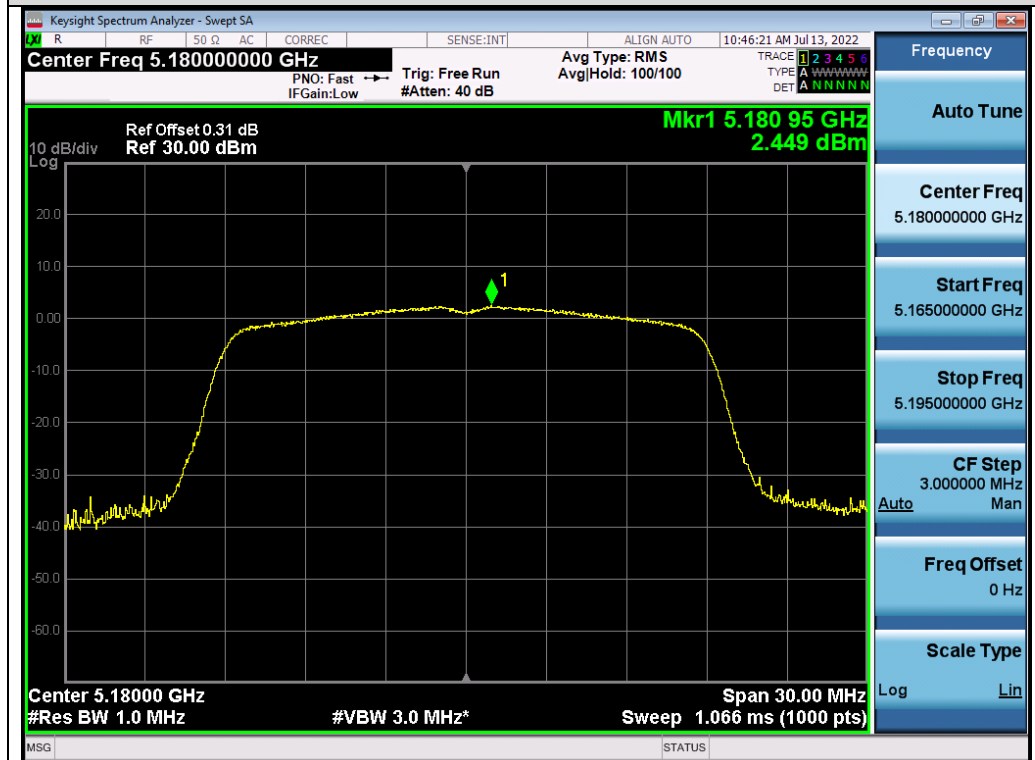


Test_Graph_802.11a_ANT1_5200_6Mbps_PSD

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Test_Graph_802.11a_ANT1_5240_6Mbps_PSD

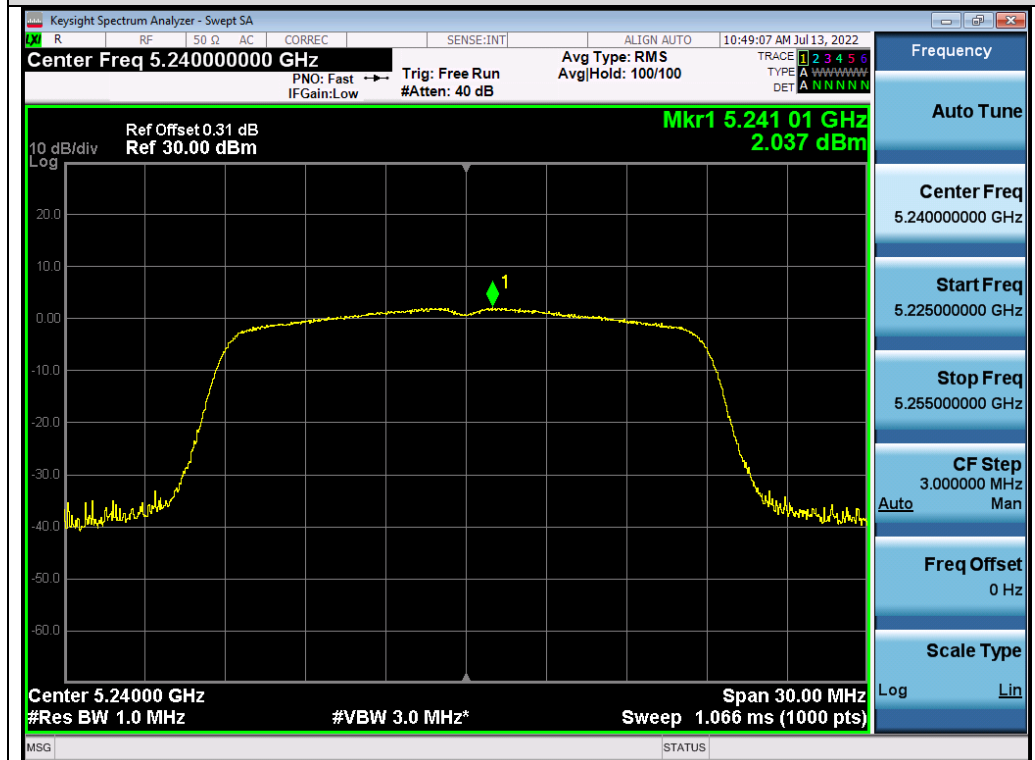


Test_Graph_802.11n20_ANT1_5180_MCS0_PSD

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Test_Graph_802.11n20_ANT1_5200_MCS0_PSD



Test_Graph_802.11n20_ANT1_5240_MCS0_PSD

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