
FCC Test Report

Report No.: AGC02762220910FE06

FCC ID : 2AL26-K7

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Body Worn Camera

BRAND NAME : Reveal Media

MODEL NAME : K7

APPLICANT : Reveal Media Limited

DATE OF ISSUE : Oct. 28, 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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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 28, 2022	Valid	Initial Release

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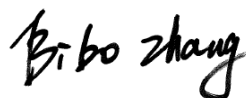
1. VERIFICATION OF CONFORMITY

Applicant	Reveal Media Limited
Address	Riverview House, 20 Old Bridge Street, Hampton Wick, KT1 4BU, United Kingdom
Manufacturer	Reveal Media Hong Kong Ltd.
Address	6/F., Luk Kwok Centre, 72 Gloucester Road, Wan Chai, HongKong
Factory	Reveal Media Hong Kong Ltd.
Address	6/F., Luk Kwok Centre, 72 Gloucester Road, Wan Chai, HongKong
Product Designation	Body Worn Camera
Brand Name	Reveal Media
Test Model	K7
Date of receipt of test item	Sep. 20, 2022
Date of Test	Sep. 20, 2022~Oct. 28, 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



Bibo Zhang
(Project Engineer)

Oct. 28, 2022

Reviewed By



Calvin Liu
(Reviewer)

Oct. 28, 2022

Approved By



Max Zhang
Authorized Officer

Oct. 28, 2022

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “Body Worn Camera”. 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:15.77dBm; IEEE 802.11n-HT20:15.91dBm; IEEE 802.11n-HT40:12.71dBm; IEEE 802.11ac-VHT20:14.71dBm; IEEE 802.11ac-VHT40:15.46dBm; IEEE 802.11ac-VHT80:14.63dBm	
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 12 channels of U-NII-2C Band 8 channels of U- NII 3 Band	
Hardware Version	EP-VRM04MB-02	
Software Version	V1.0	
Antenna Designation	PIFA antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	1.82dBi	
Power Supply	DC 3.8V by battery or DC 5V by adapter	

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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:

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

Channel	Frequency	Channel	Frequency
100	5500 MHz	116	5580 MHz
104	5520 MHz	132	5660 MHz
108	5540 MHz	136	5680 MHz
112	5560 MHz	140	5700 MHz

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

Channel	Frequency	Channel	Frequency
102	5510 MHz	134	5670 MHz
110	5550 MHz	--	--

1 channels is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	--	--

9 channels is TDWR channel and Emission in each band shall comply with the limits applicable only to the band:

Channel	Frequency	Channel	Frequency
118*	5590 MHz	128*	5640 MHz
120*	5600 MHz	138*	5690 MHz
122*	5610 MHz	142*	5710 MHz
124*	5620 MHz	144*	5720 MHz
126*	5630 MHz	--	--

Note: “*” is the channel frequency does not participate in the test evaluation, it can be ignored.

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: 2AL26-K7** 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

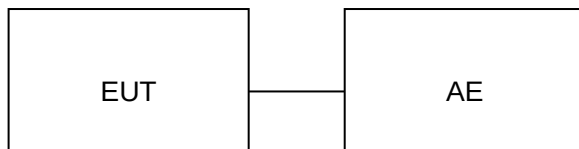
Note:

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	Body Worn Camera	K7	2AL26-K7	EUT

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

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	Aug. 04, 2022	Aug. 03, 2023
Power sensor	Aglient	U2021XA	MY54110007	Mar. 04, 2022	Mar. 02, 2023
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	N/A	N/A
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 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, 2023
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
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

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

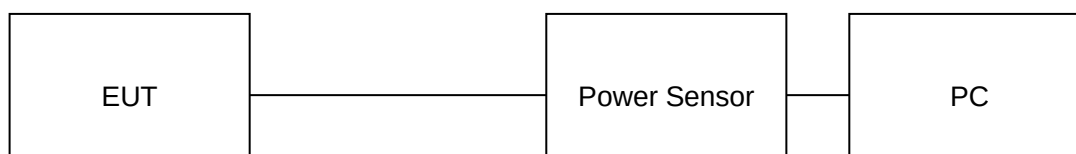
For average power test:

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	14.30	23.98	Pass
	5200	15.22	23.98	Pass
	5240	14.30	23.98	Pass
802.11n20	5180	15.35	23.98	Pass
	5200	15.91	23.98	Pass
	5240	13.69	23.98	Pass
802.11n40	5190	14.52	23.98	Pass
	5230	14.29	23.98	Pass
802.11ac20	5180	15.81	23.98	Pass
	5200	14.13	23.98	Pass
	5240	13.07	23.98	Pass
802.11ac40	5190	15.46	23.98	Pass
	5230	13.68	23.98	Pass
802.11ac80	5210	14.63	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	14.18	23.98	Pass
	5300	14.31	23.98	Pass
	5320	15.77	23.98	Pass
802.11n20	5260	14.19	23.98	Pass
	5300	14.62	23.98	Pass
	5320	14.95	23.98	Pass
802.11n40	5270	14.27	23.98	Pass
	5310	14.71	23.98	Pass
802.11ac20	5260	14.02	23.98	Pass
	5300	14.17	23.98	Pass
	5320	15.71	23.98	Pass
802.11ac40	5270	14.33	23.98	Pass
	5310	14.95	23.98	Pass
802.11ac80	5290	13.00	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	14.82	23.98	Pass
	5600	12.42	23.98	Pass
	5700	13.20	23.98	Pass
802.11n20	5500	14.75	23.98	Pass
	5600	11.84	23.98	Pass
	5700	13.36	23.98	Pass
802.11n40	5510	14.17	23.98	Pass
	5590	12.73	23.98	Pass
802.11ac20	5670	13.40	23.98	Pass
	5500	13.71	23.98	Pass
	5600	10.78	23.98	Pass
802.11ac40	5700	13.56	23.98	Pass
	5510	14.62	23.98	Pass
802.11ac80	5610	11.07	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	13.00	30	Pass
	5785	10.73	30	Pass
	5825	11.08	30	Pass
802.11n20	5745	11.59	30	Pass
	5785	11.65	30	Pass
	5825	11.72	30	Pass
802.11n40	5755	12.67	30	Pass
	5795	12.82	30	Pass
802.11ac20	5745	10.03	30	Pass
	5785	10.35	30	Pass
	5825	10.11	30	Pass
802.11ac40	5755	10.44	30	Pass
	5795	12.40	30	Pass
802.11ac80	5775	10.73	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:

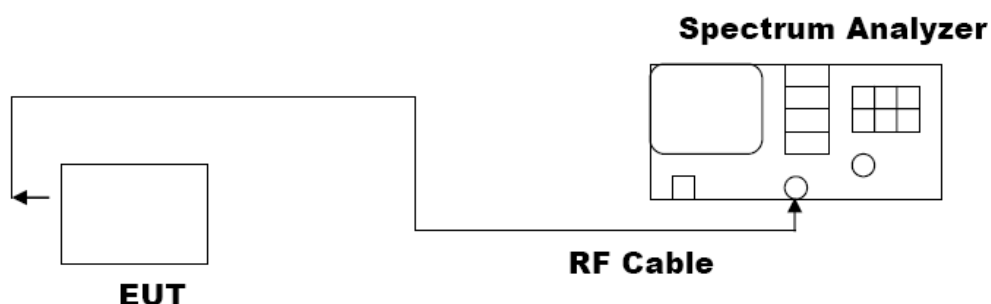
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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	16.548	20.894	N/A	Pass
	5200	16.586	22.307	N/A	Pass
	5240	16.647	25.694	N/A	Pass
802.11n20	5180	17.575	20.835	N/A	Pass
	5200	17.646	22.719	N/A	Pass
	5240	17.631	22.127	N/A	Pass
802.11n40	5190	36.086	48.803	N/A	Pass
	5230	36.110	49.501	N/A	Pass
802.11ac20	5180	17.580	22.089	N/A	Pass
	5200	17.594	22.157	N/A	Pass
	5240	17.690	24.954	N/A	Pass
802.11ac40	5190	36.033	46.222	N/A	Pass
	5230	36.122	50.597	N/A	Pass
802.11ac80	5210	76.144	116.710	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	21.668	N/A	Pass
	5300	16.483	20.502	N/A	Pass
	5320	16.471	20.271	N/A	Pass
802.11n20	5260	17.632	23.288	N/A	Pass
	5300	17.579	20.752	N/A	Pass
	5320	17.528	20.015	N/A	Pass
802.11n40	5270	36.124	51.096	N/A	Pass
	5310	35.988	41.873	N/A	Pass
802.11ac20	5260	17.648	24.243	N/A	Pass
	5300	17.552	20.016	N/A	Pass
	5320	17.544	20.005	N/A	Pass
802.11ac40	5270	36.114	50.336	N/A	Pass
	5310	35.949	44.325	N/A	Pass
802.11ac80	5290	76.149	107.781	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	16.478	20.264	N/A	Pass
	5600	16.486	20.310	N/A	Pass
	5700	16.509	20.287	N/A	Pass
802.11n20	5500	17.512	19.969	N/A	Pass
	5600	17.510	20.064	N/A	Pass
	5700	17.524	20.026	N/A	Pass
802.11n40	5510	35.915	40.715	N/A	Pass
	5590	35.946	40.868	N/A	Pass
802.11ac20	5670	35.965	40.909	N/A	Pass
	5500	17.490	19.843	N/A	Pass
	5600	17.497	20.049	N/A	Pass
802.11ac40	5700	17.503	20.063	N/A	Pass
	5510	35.845	40.468	N/A	Pass
802.11ac80	5610	76.019	96.678	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	16.534	15.103	0.5	Pass
	5785	16.562	15.102	0.5	Pass
	5825	16.508	15.099	0.5	Pass
802.11n20	5745	17.524	15.100	0.5	Pass
	5785	17.552	15.103	0.5	Pass
	5825	17.501	15.100	0.5	Pass
802.11n40	5755	35.956	35.078	0.5	Pass
	5795	35.983	35.084	0.5	Pass
802.11ac20	5745	17.514	15.102	0.5	Pass
	5785	17.515	15.101	0.5	Pass
	5825	17.490	15.102	0.5	Pass
802.11ac40	5755	35.918	35.085	0.5	Pass
	5795	35.935	35.093	0.5	Pass
802.11ac80	5775	75.910	76.351	0.5	Pass

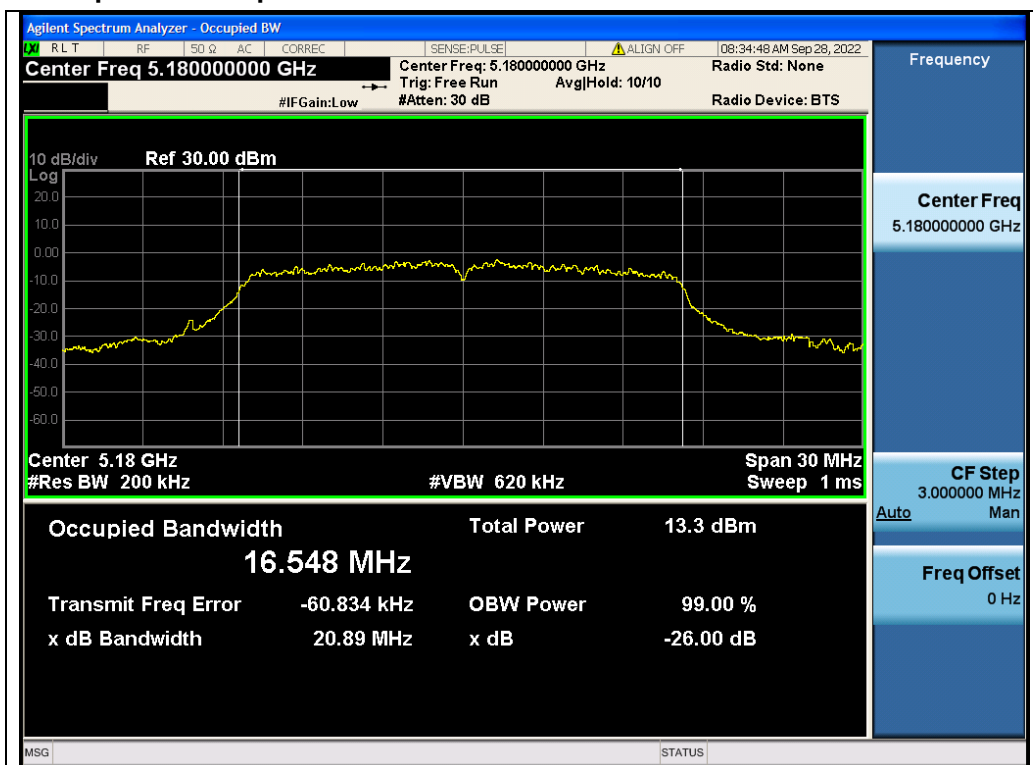
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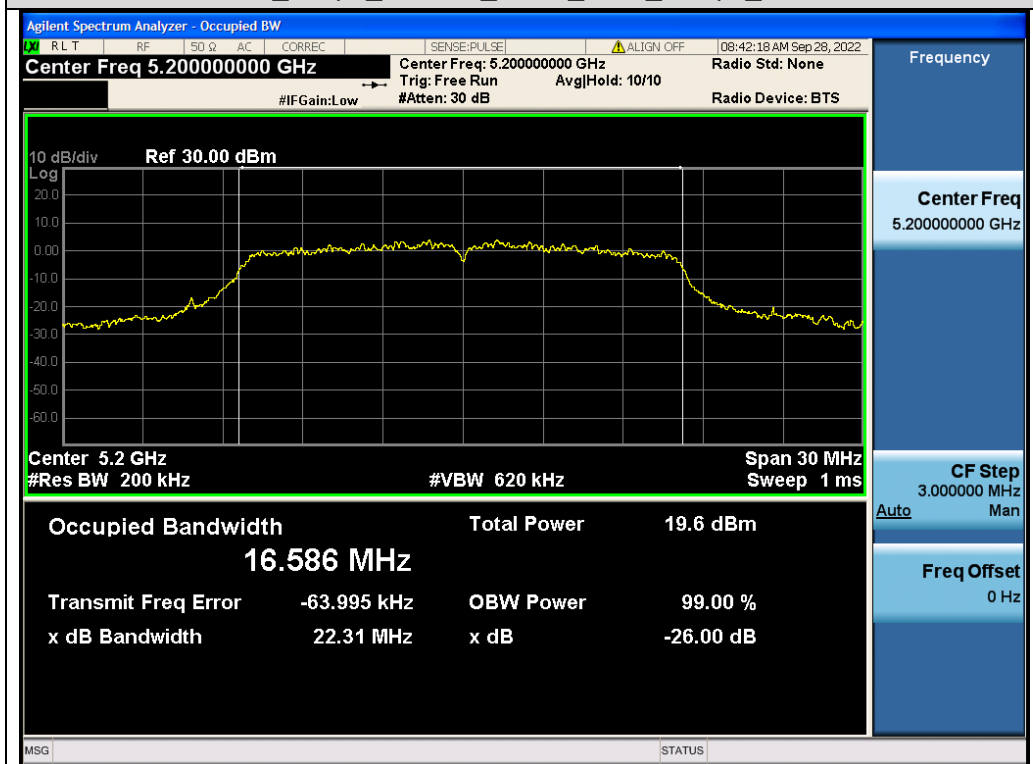
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



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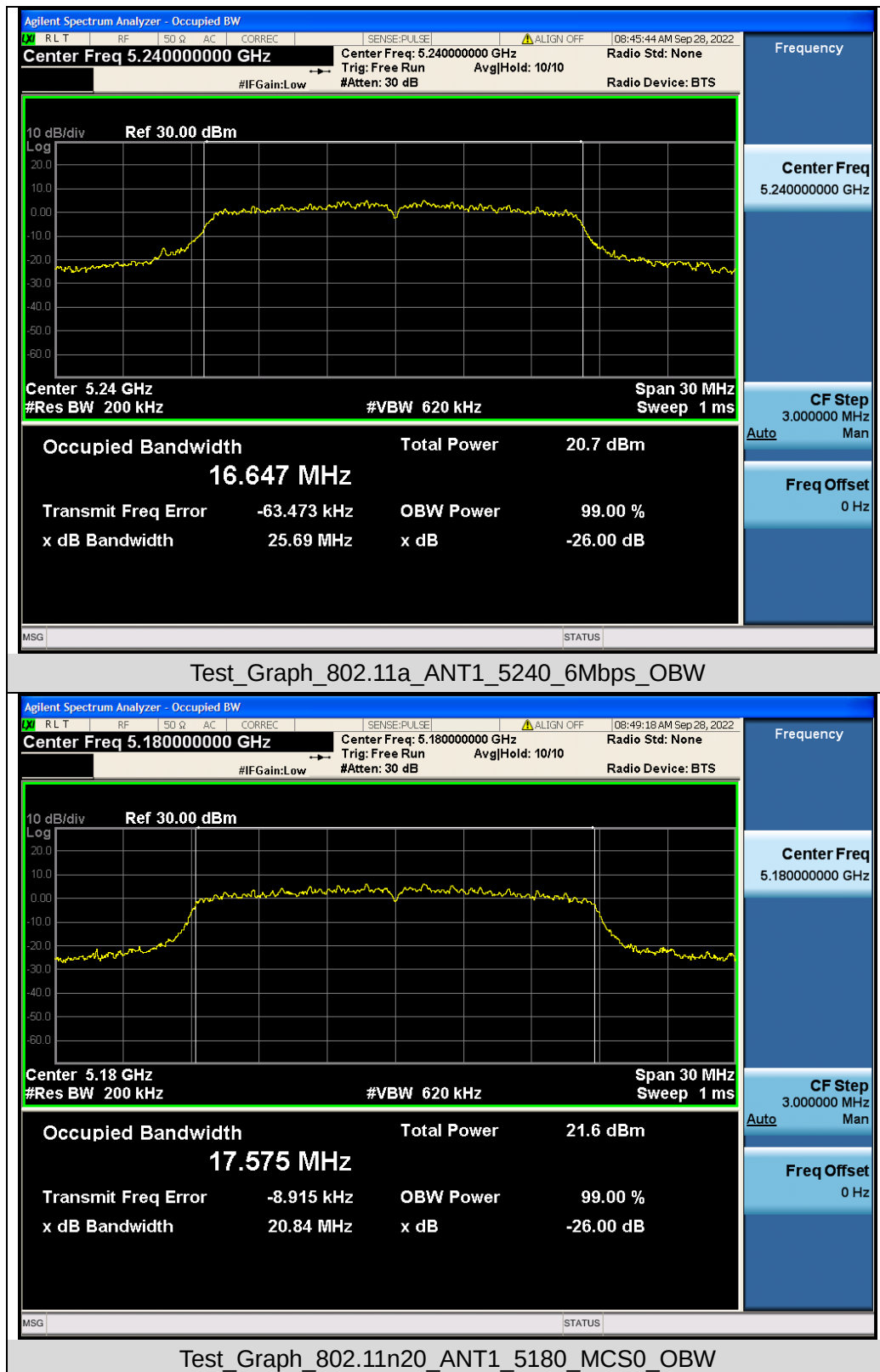
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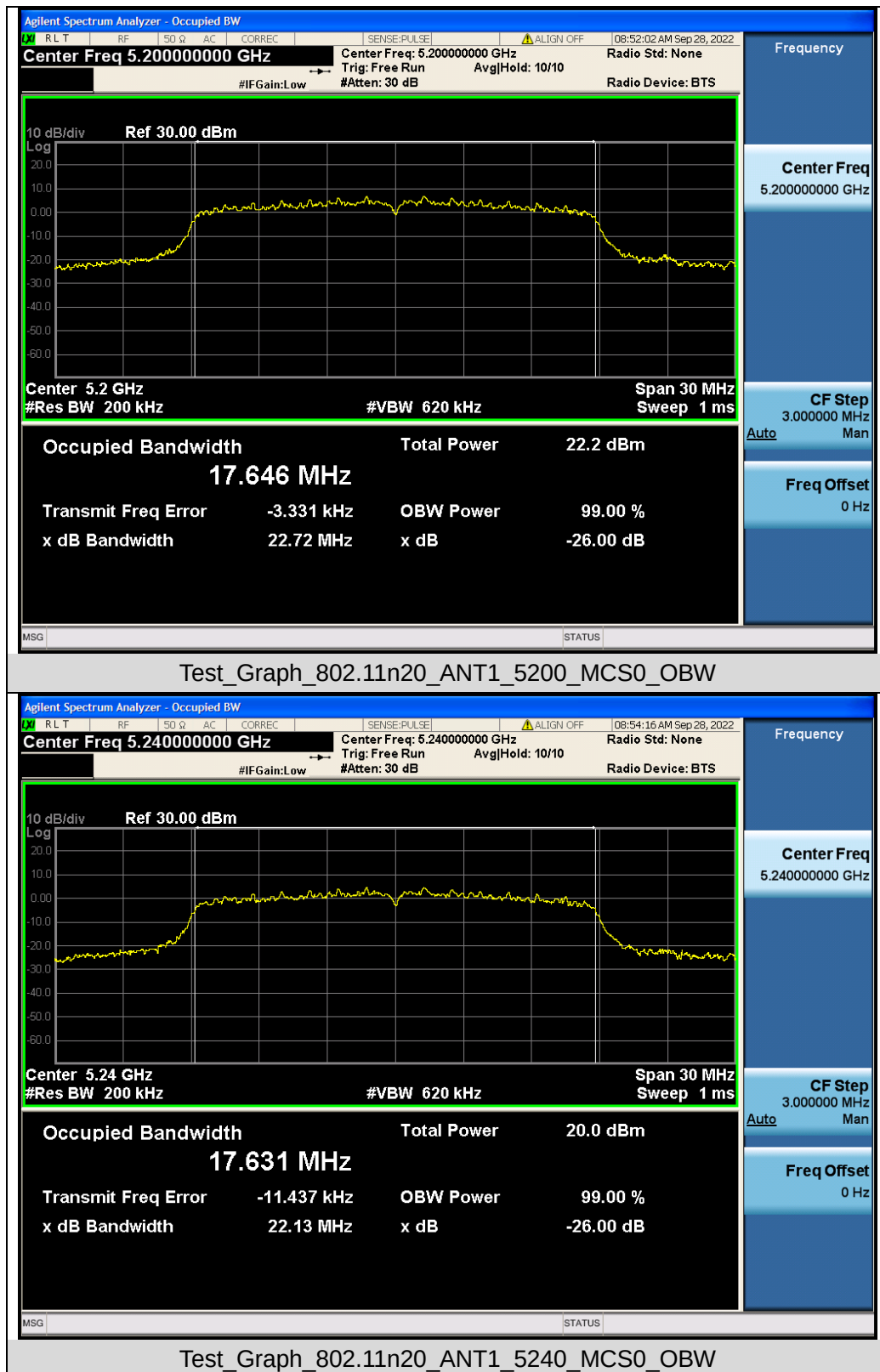
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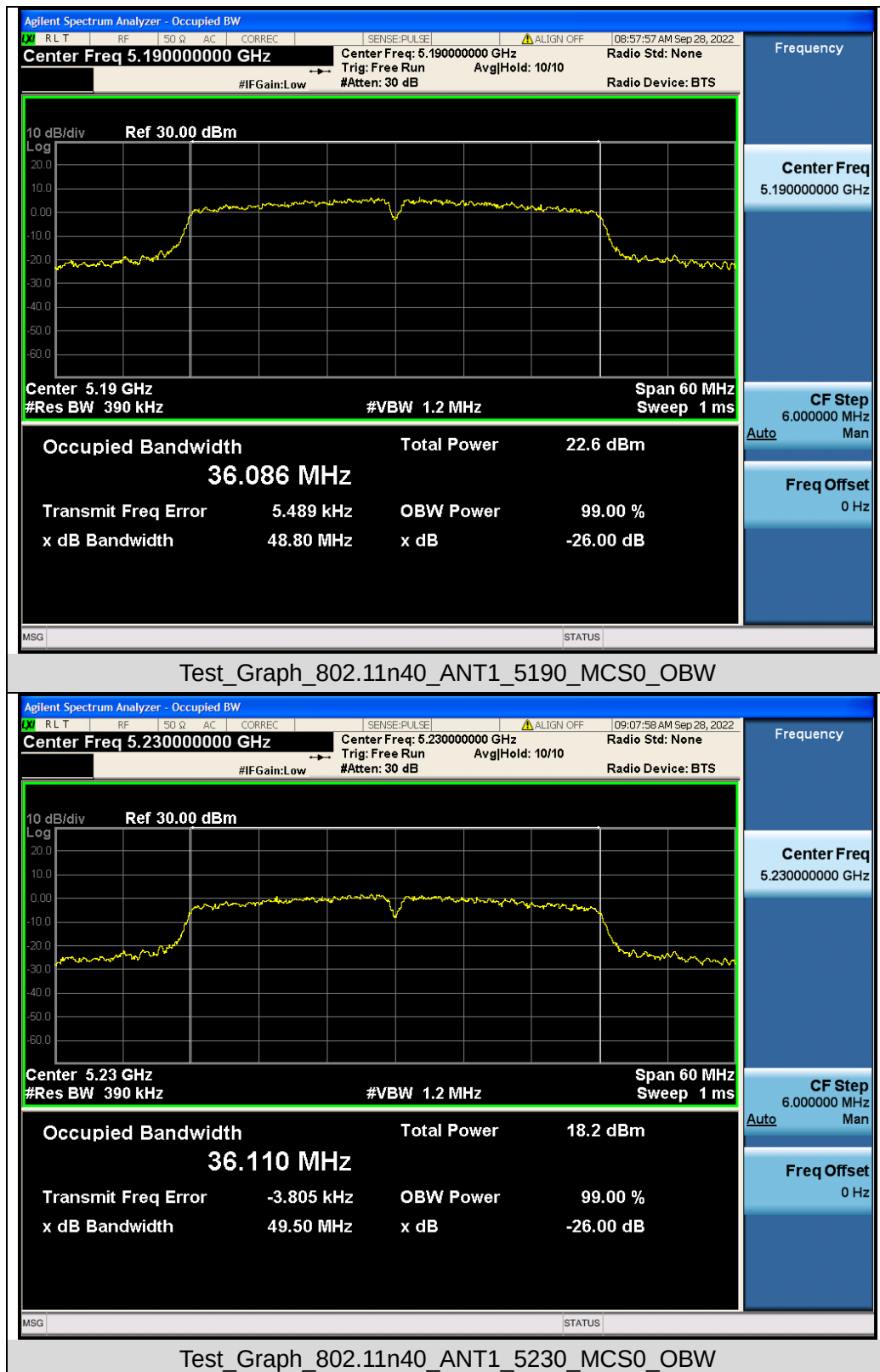
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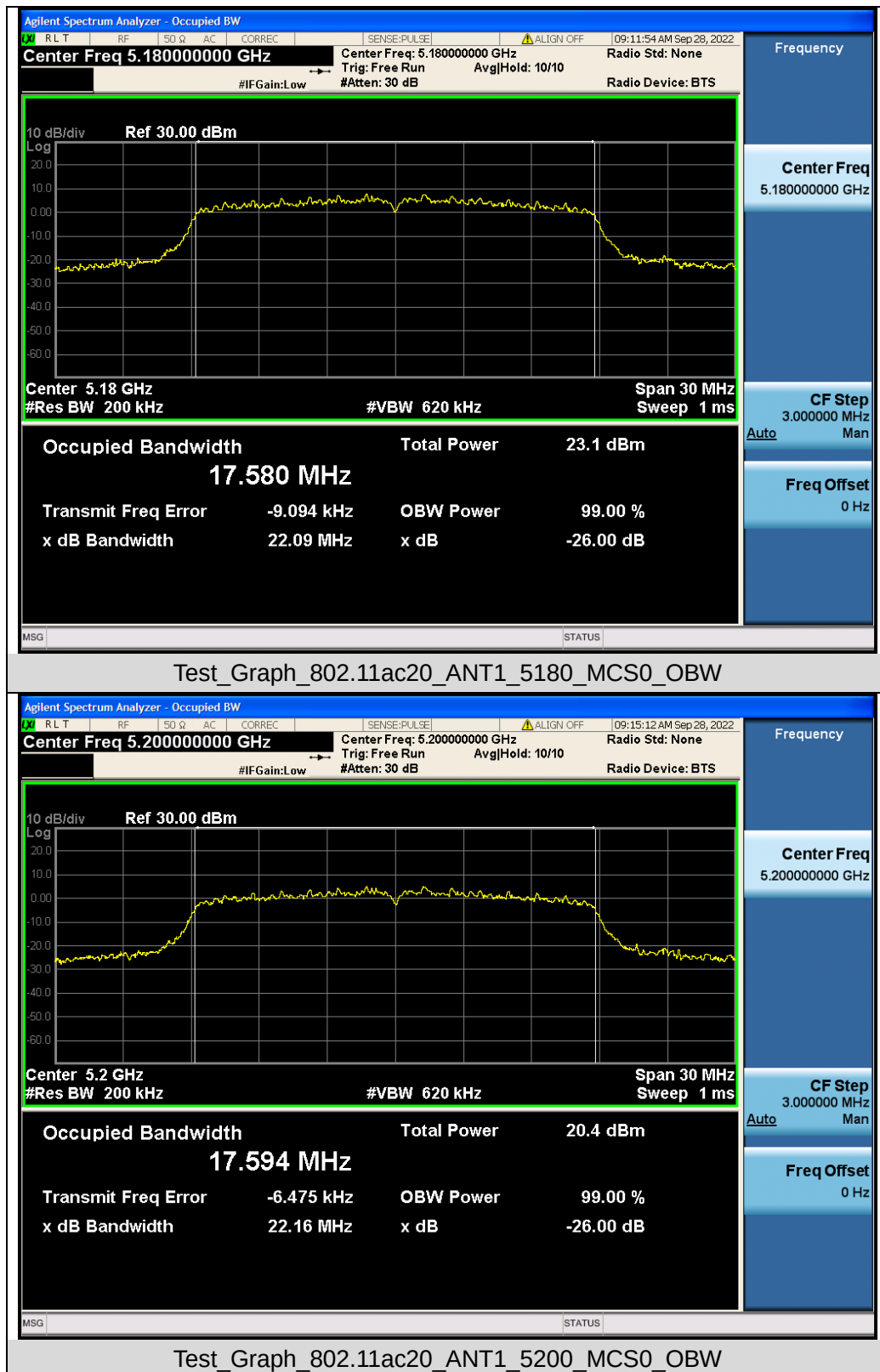
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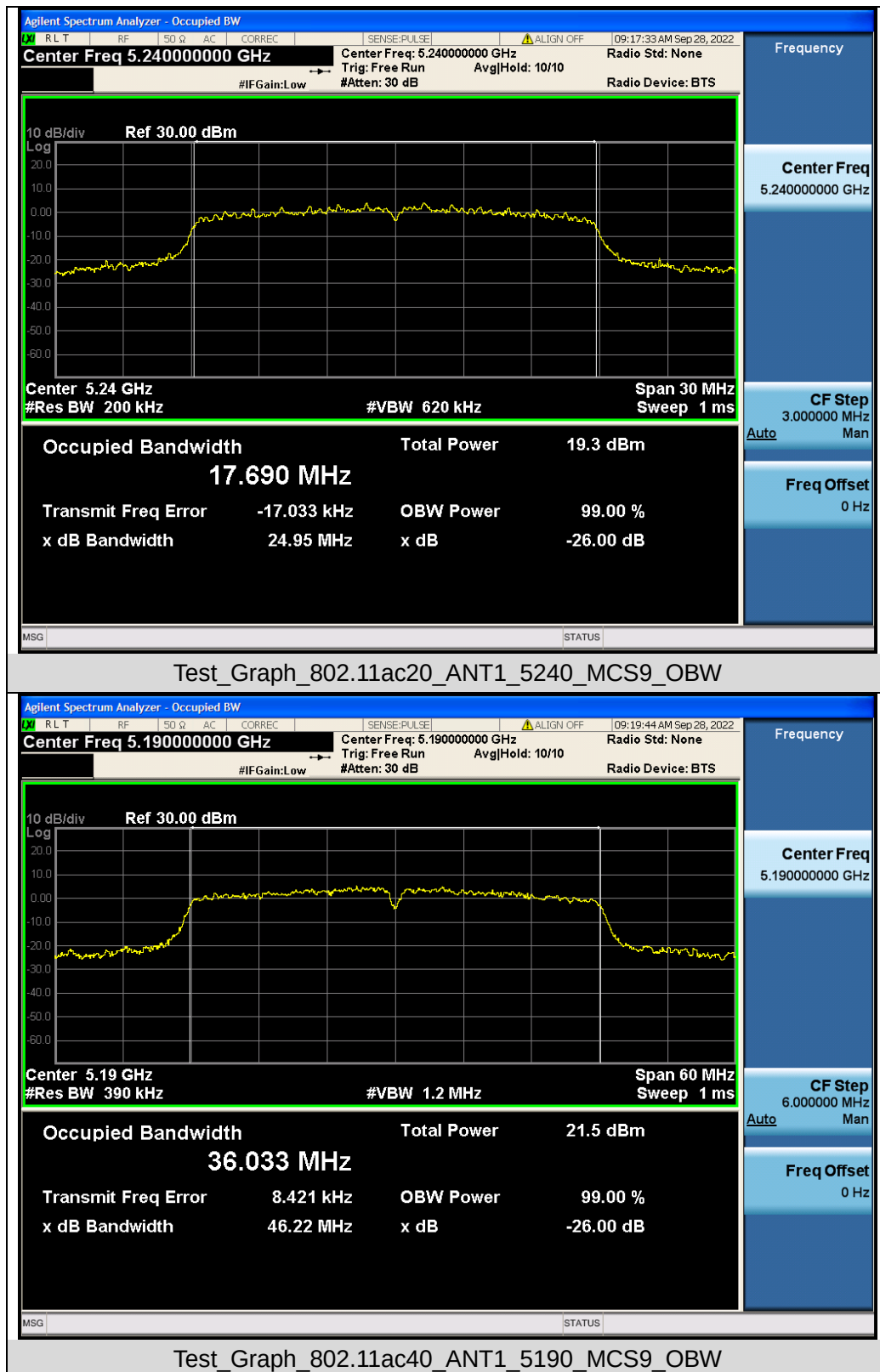
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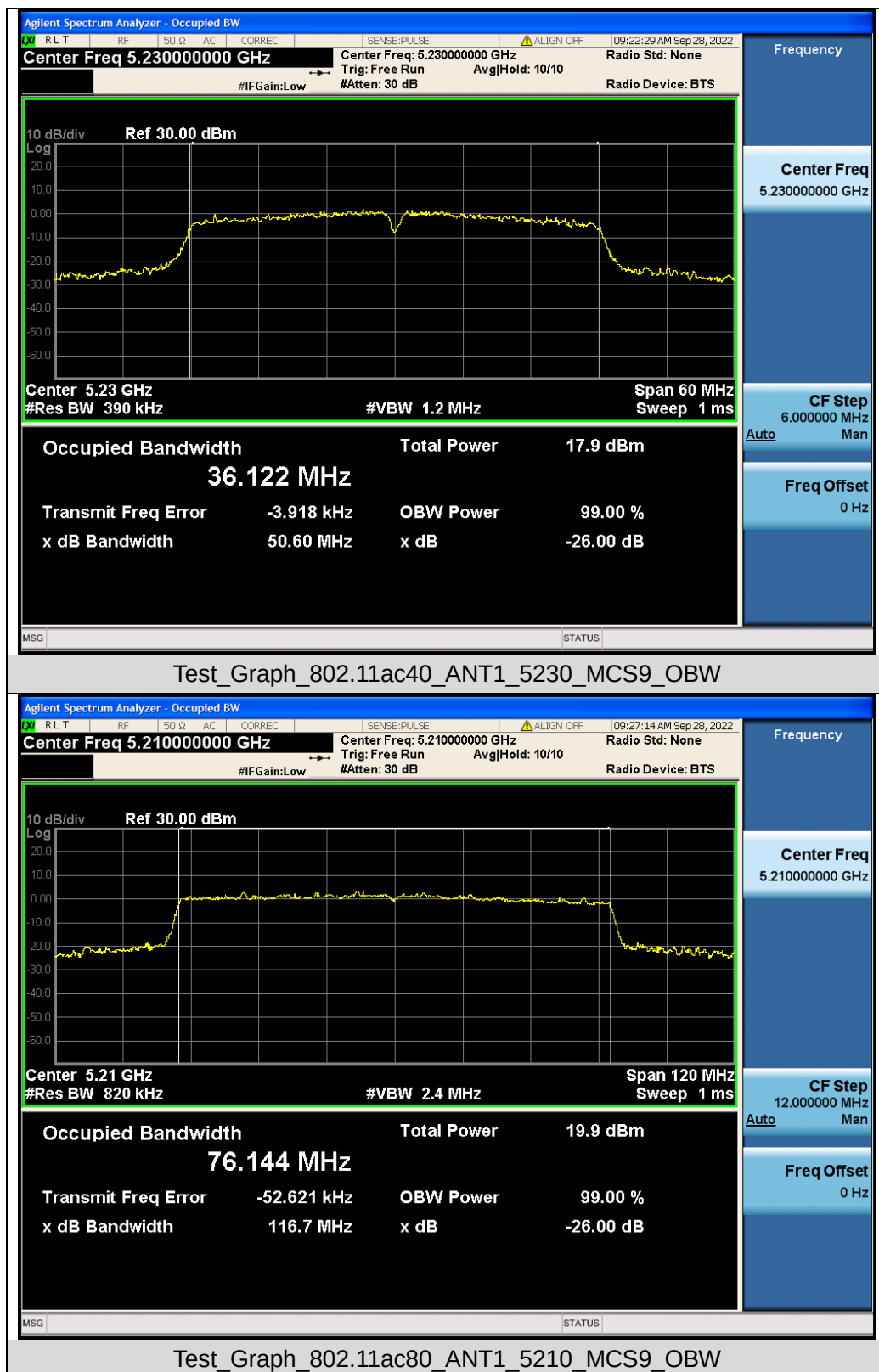
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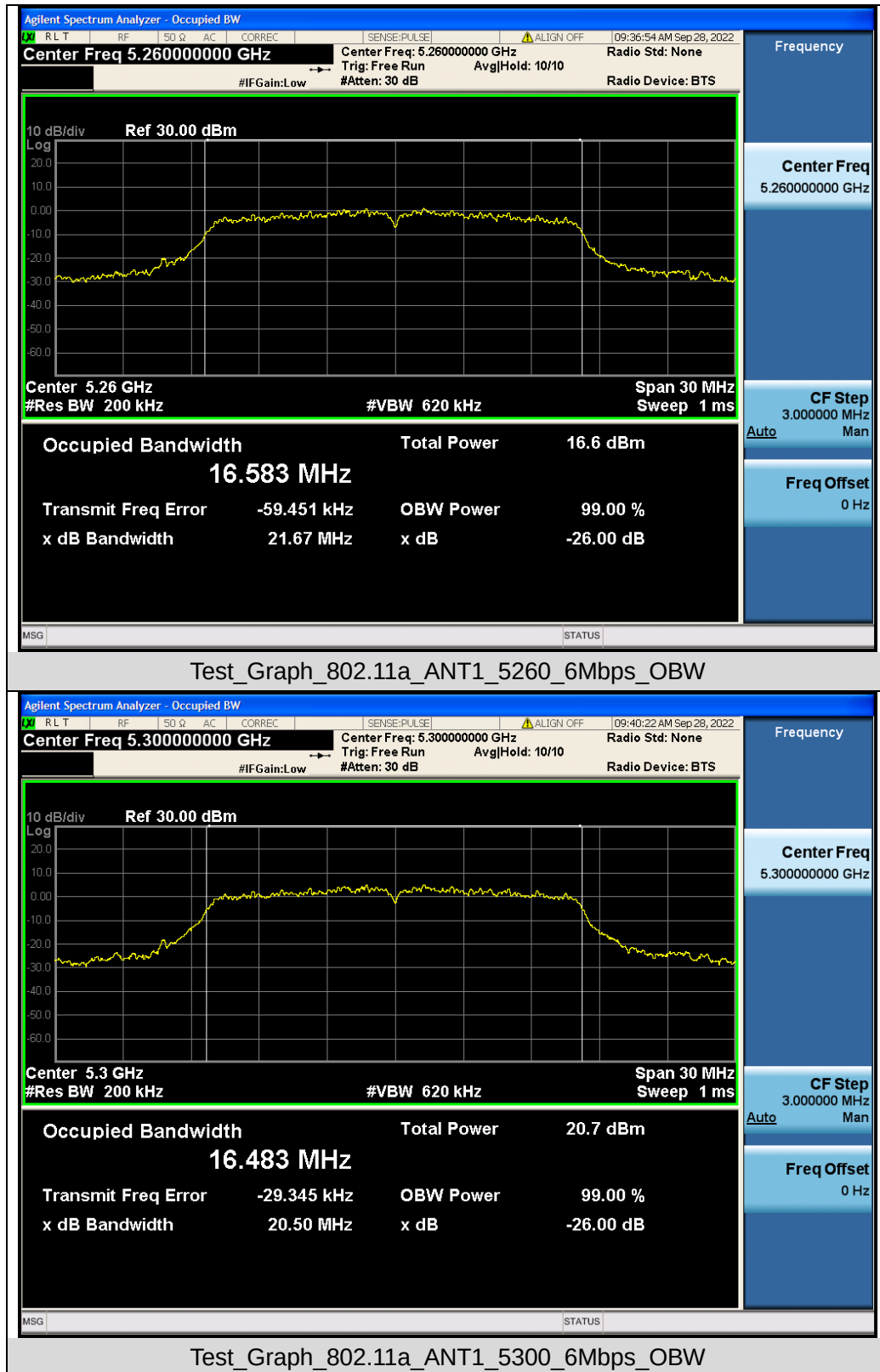


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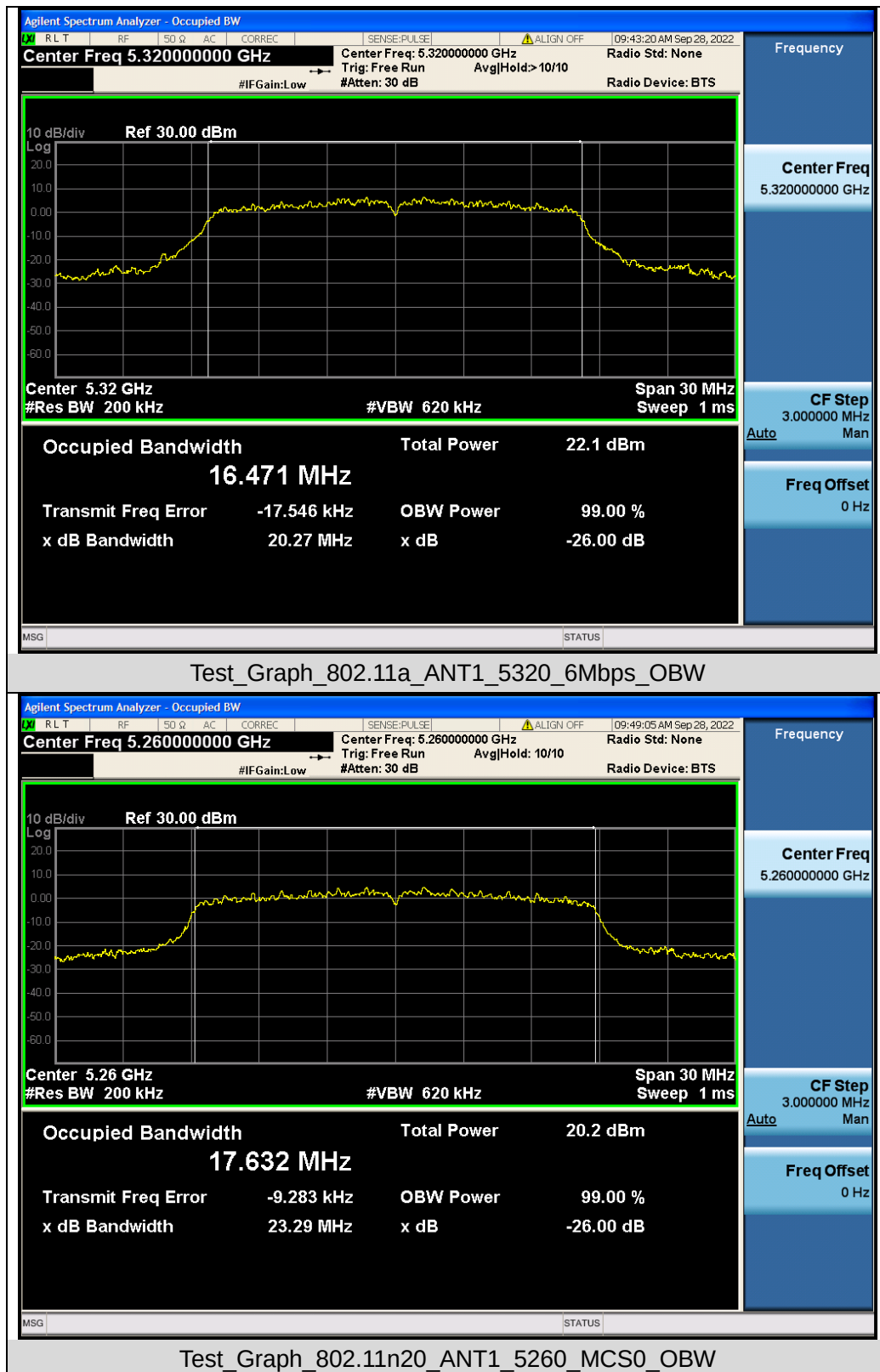


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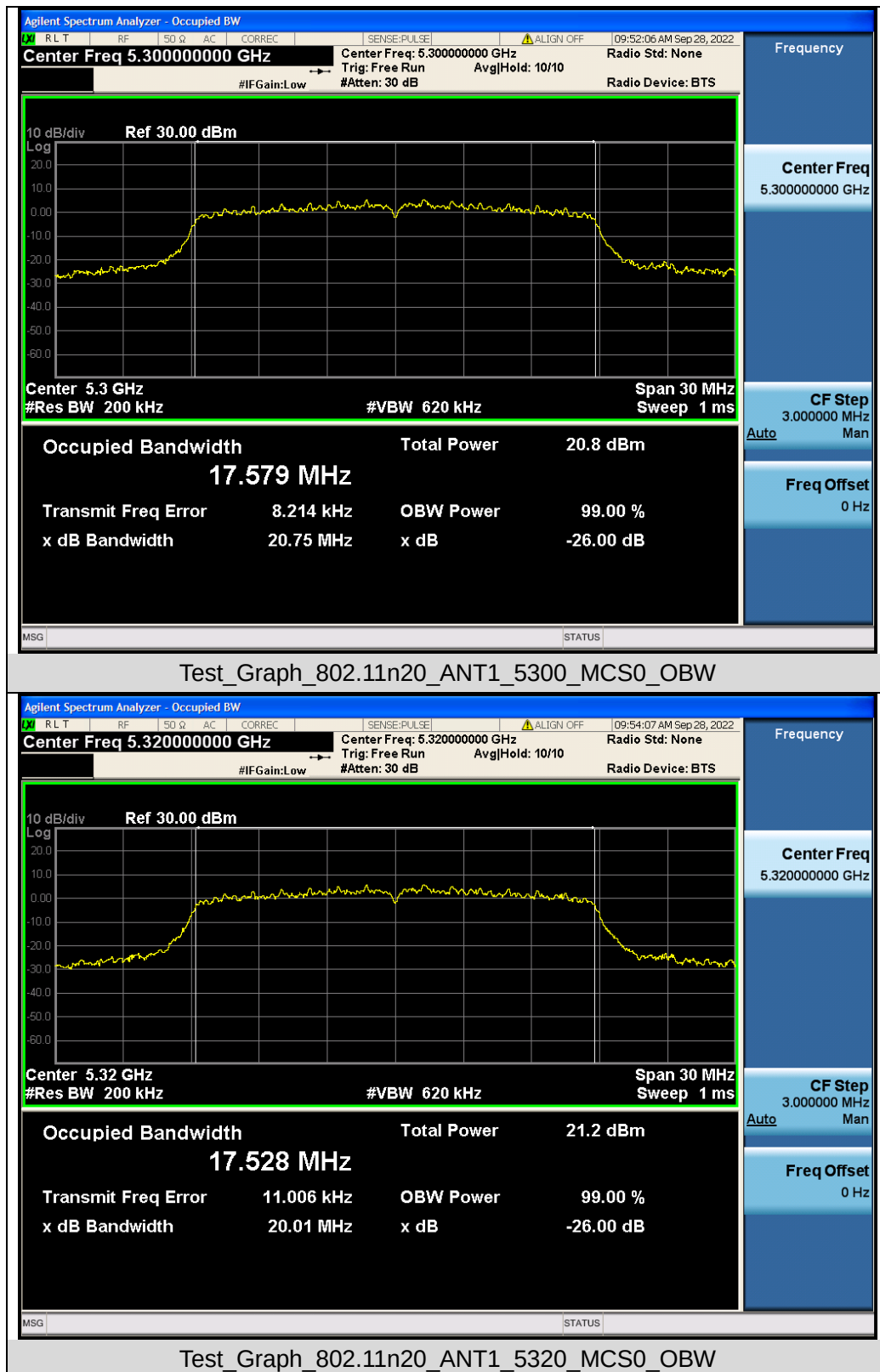
Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz



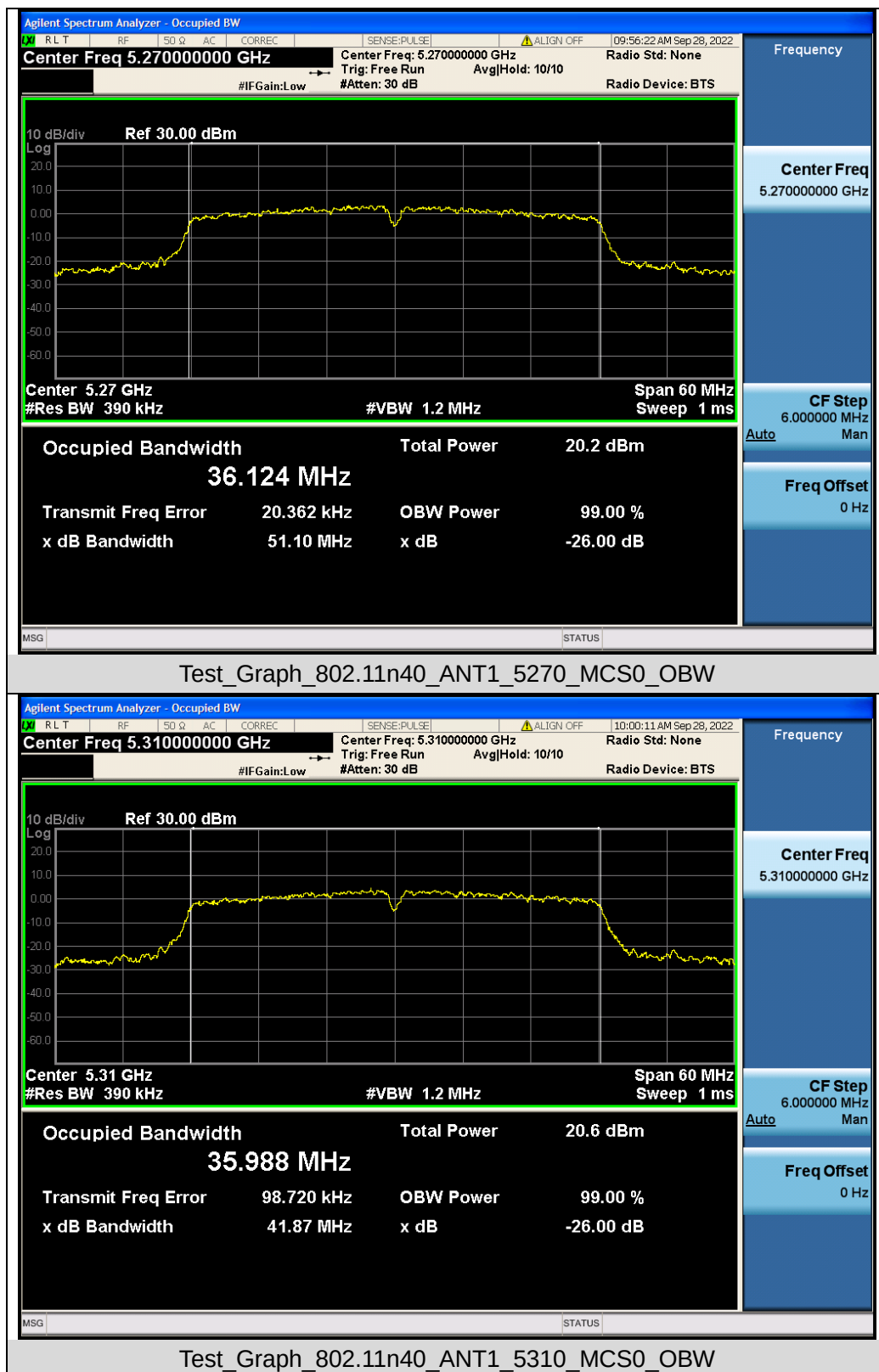
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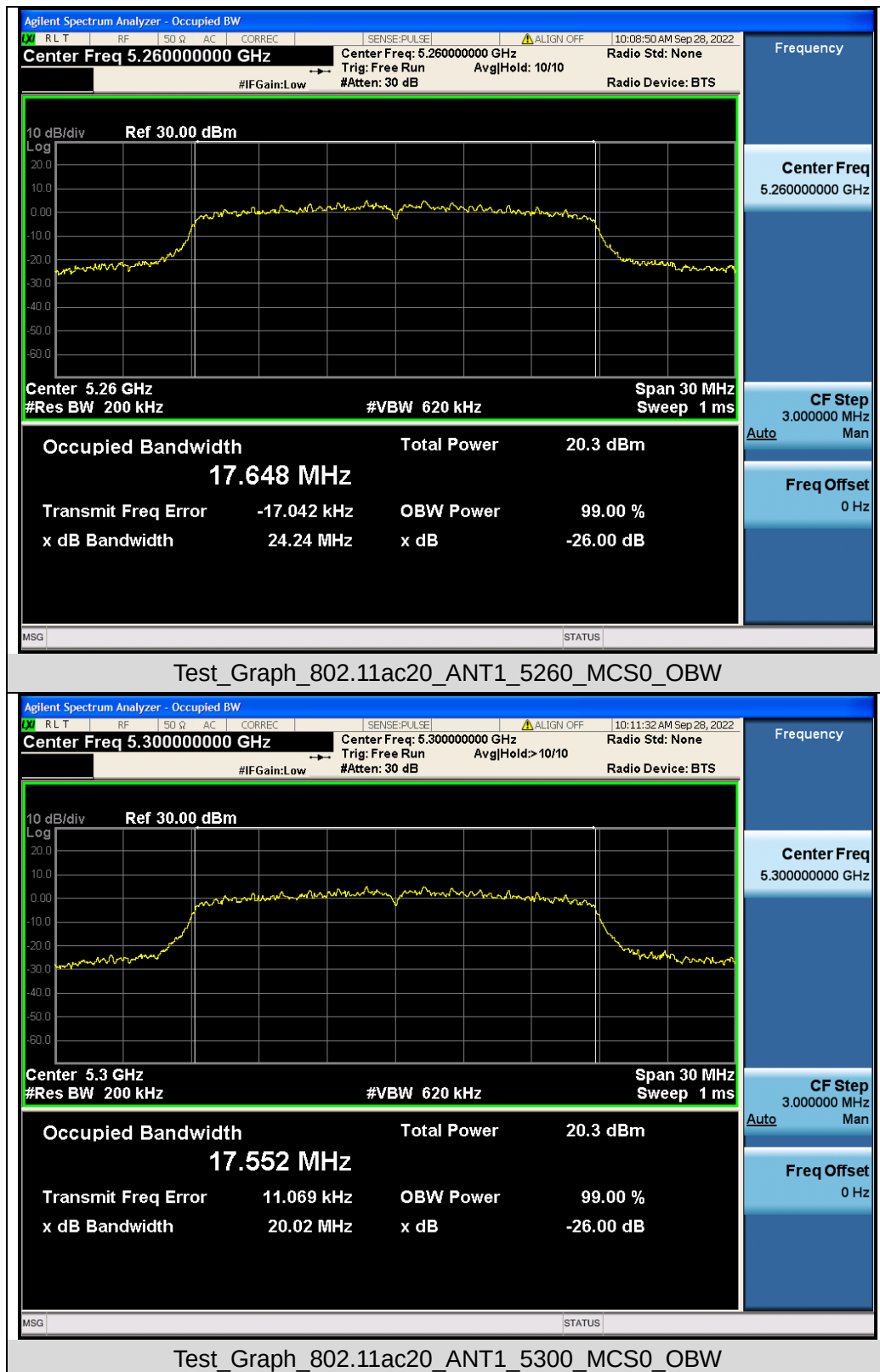
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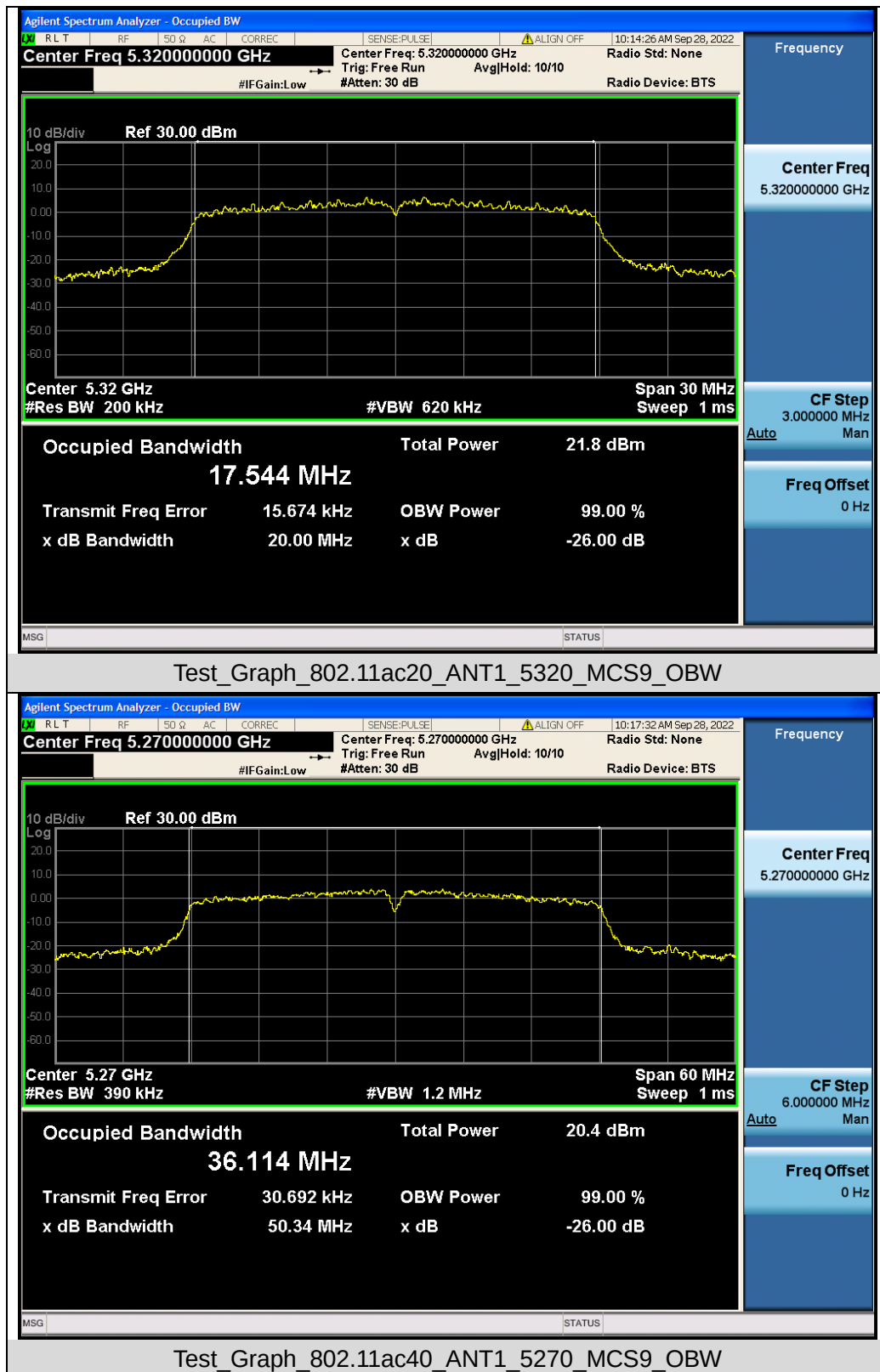


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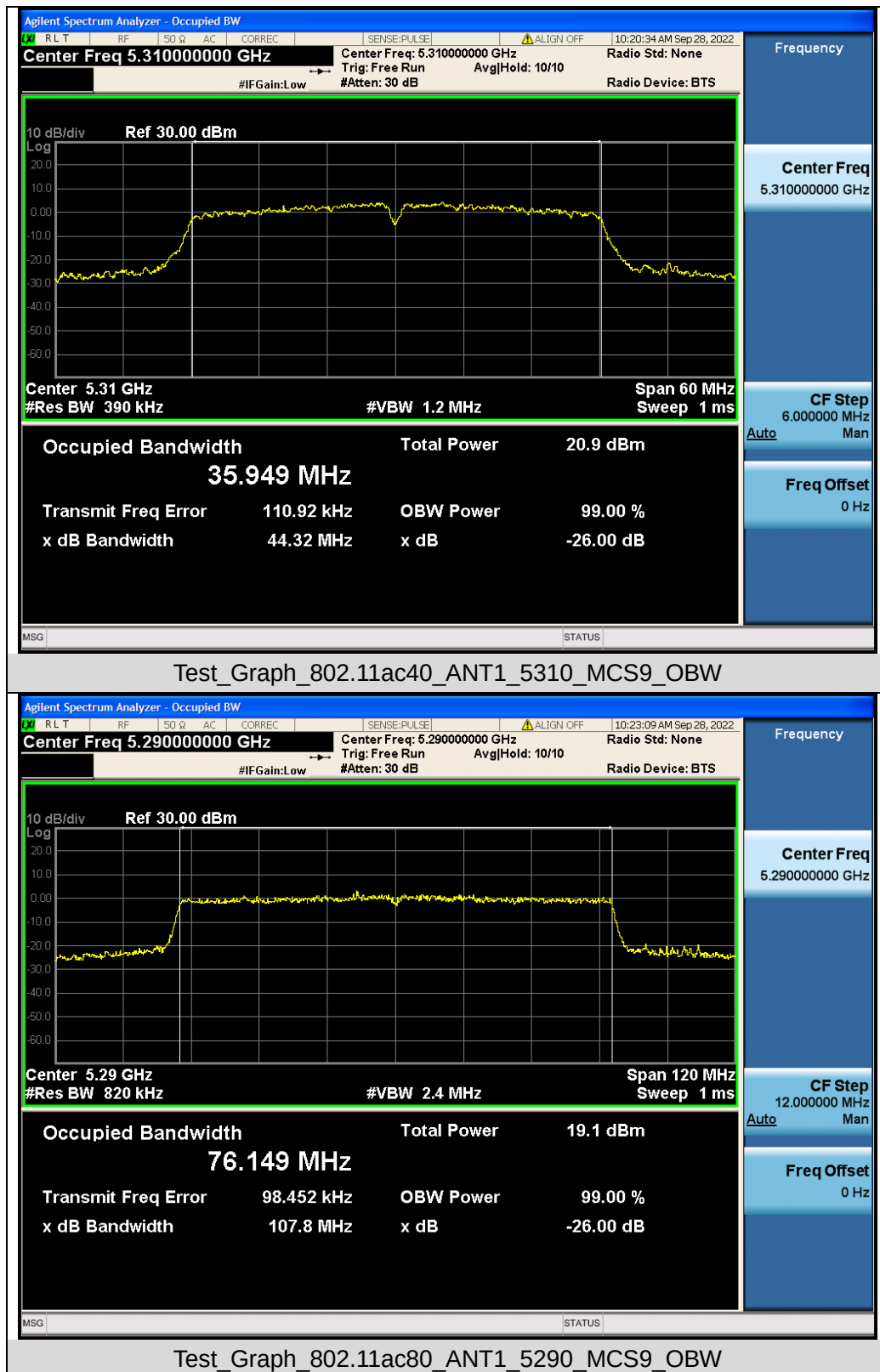
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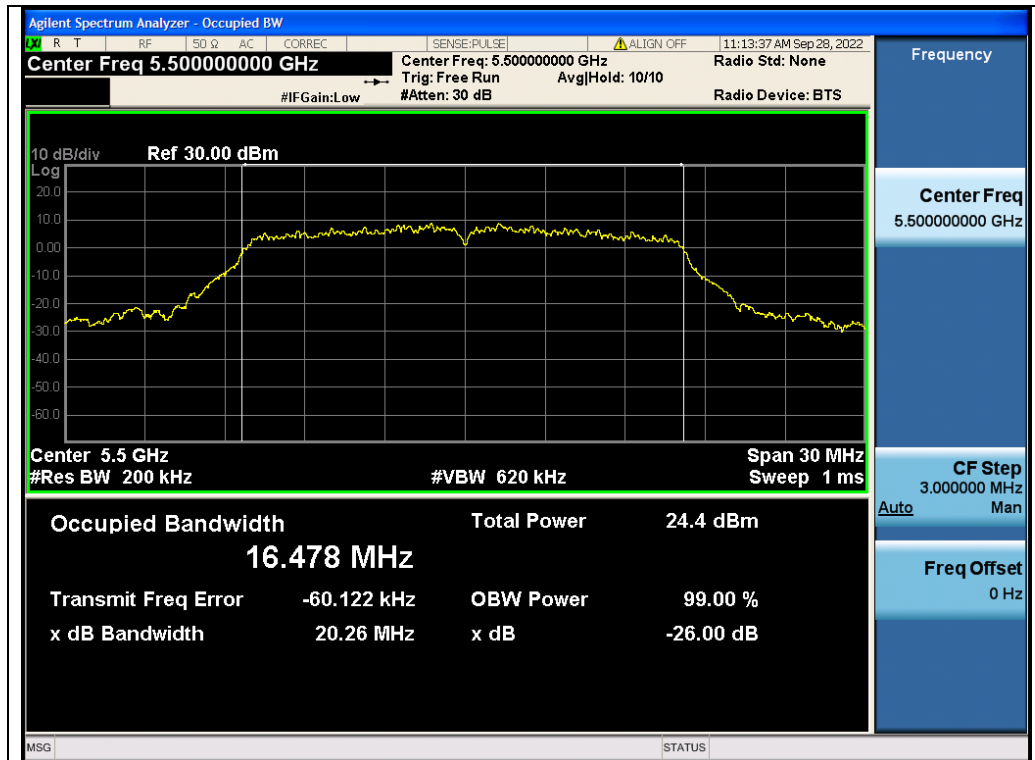
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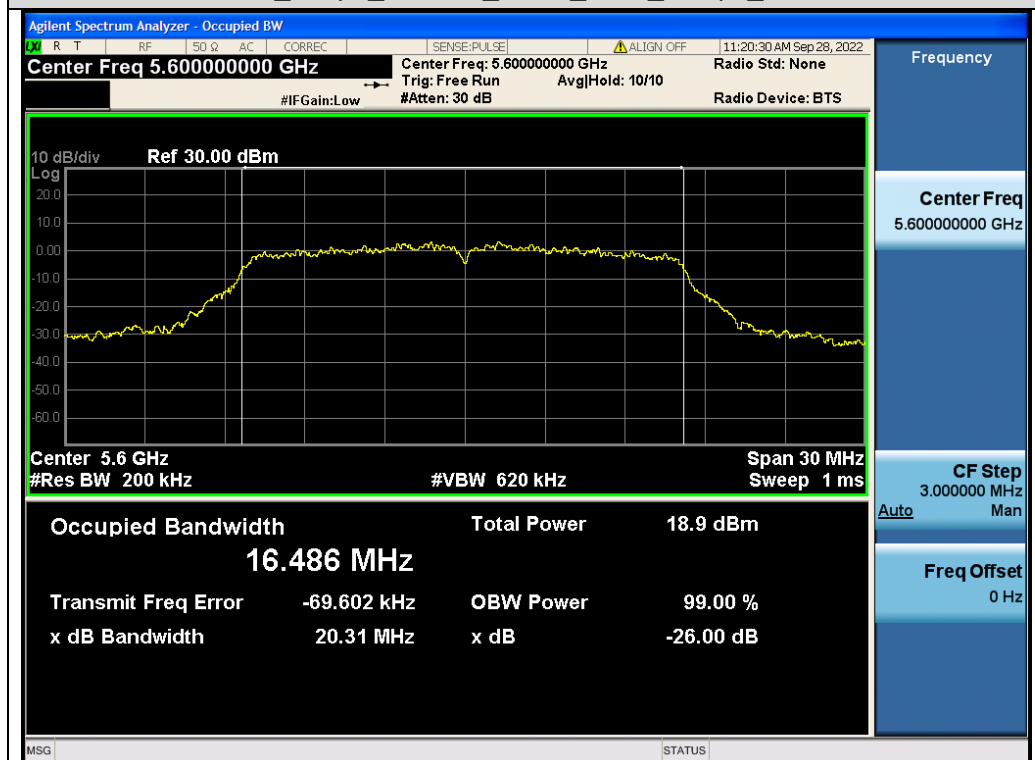
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz

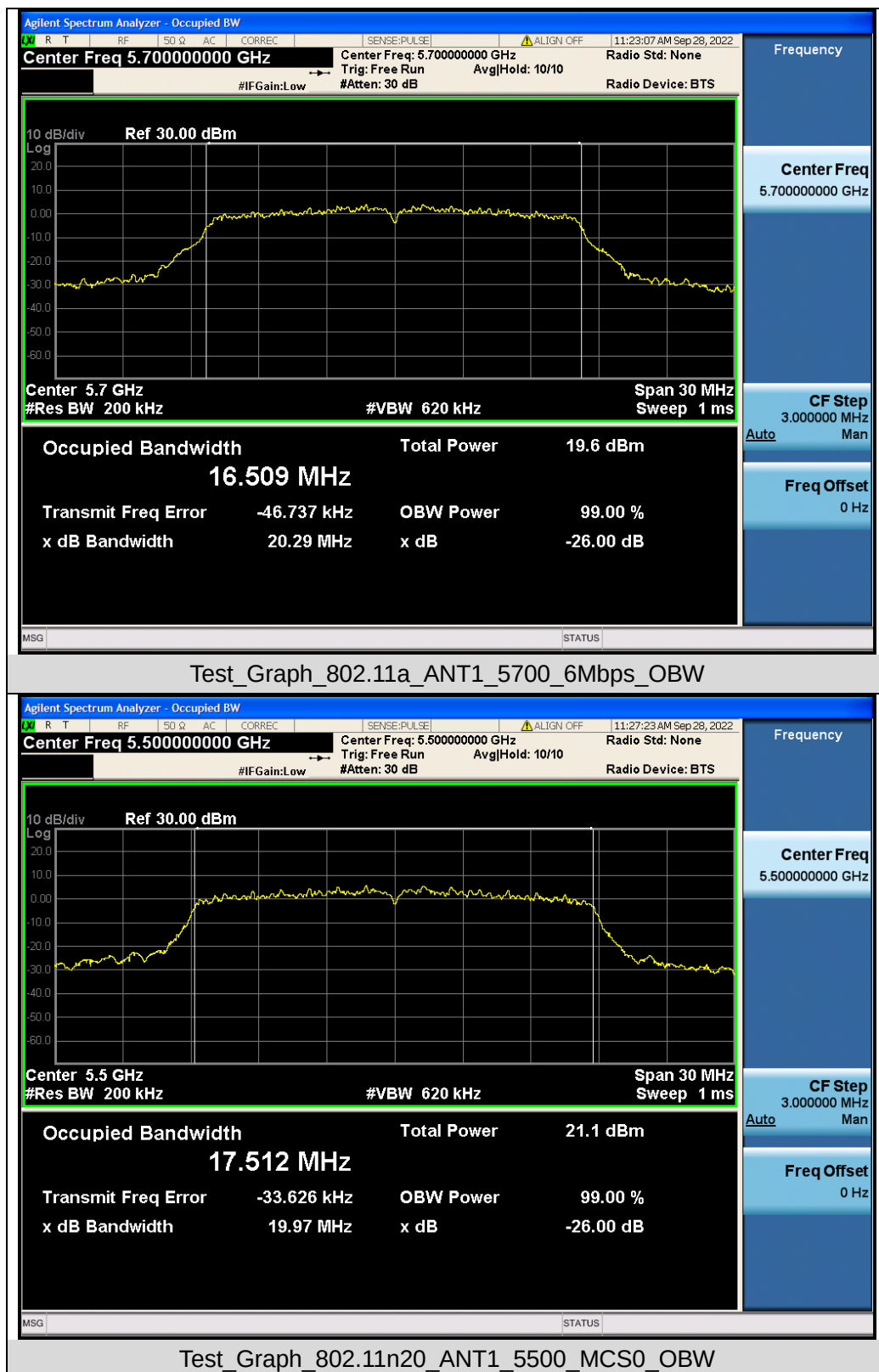


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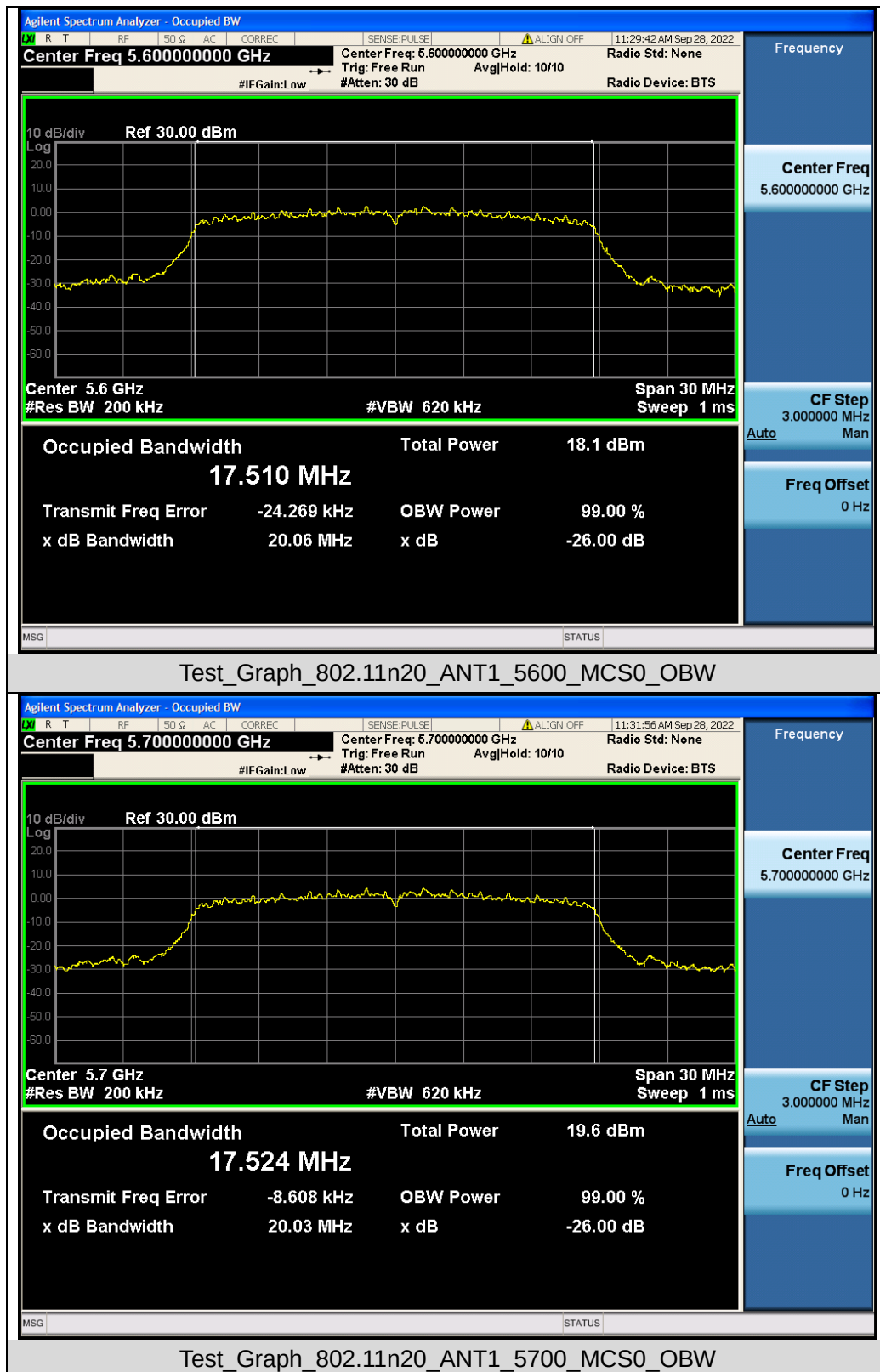


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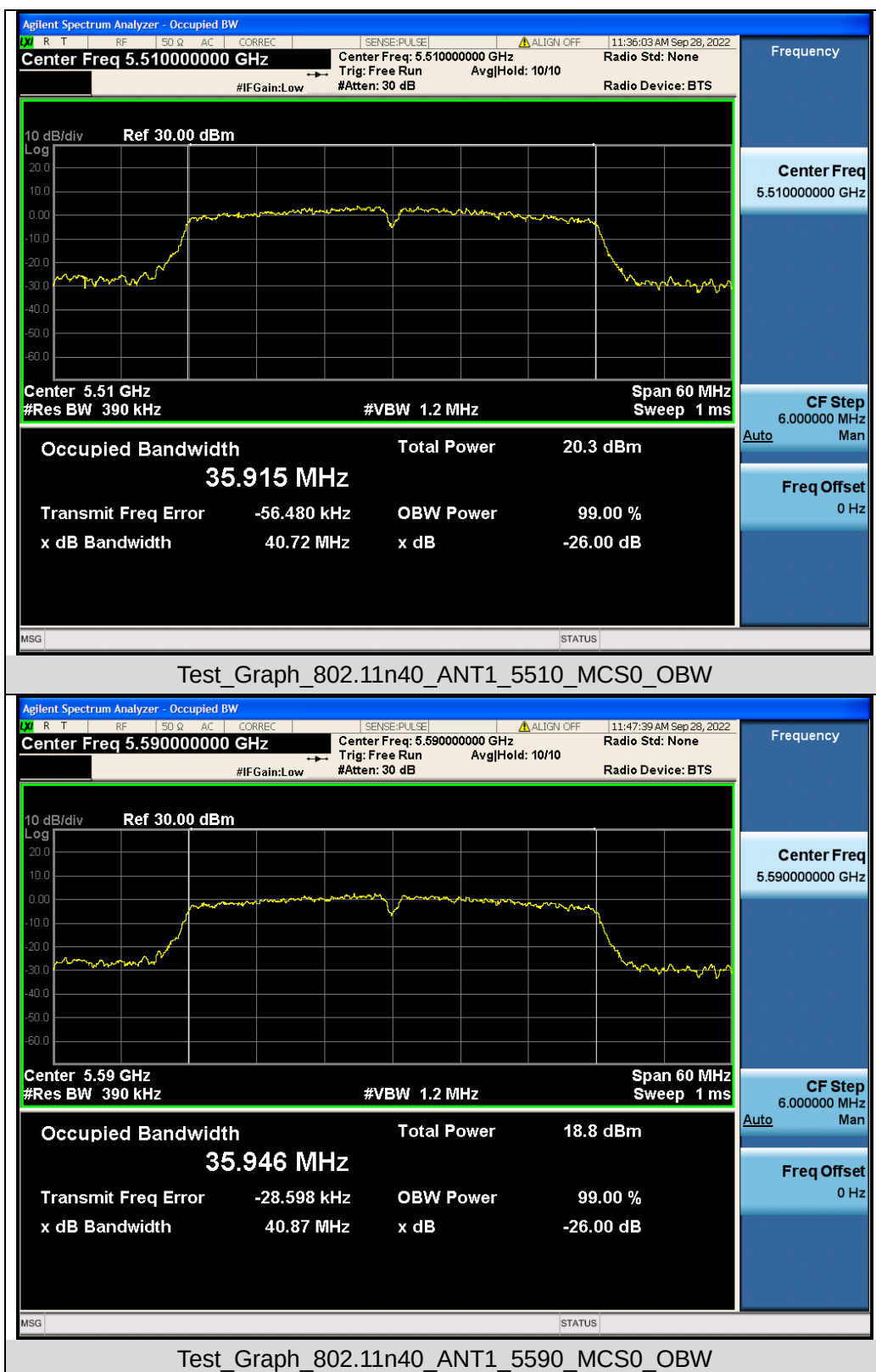
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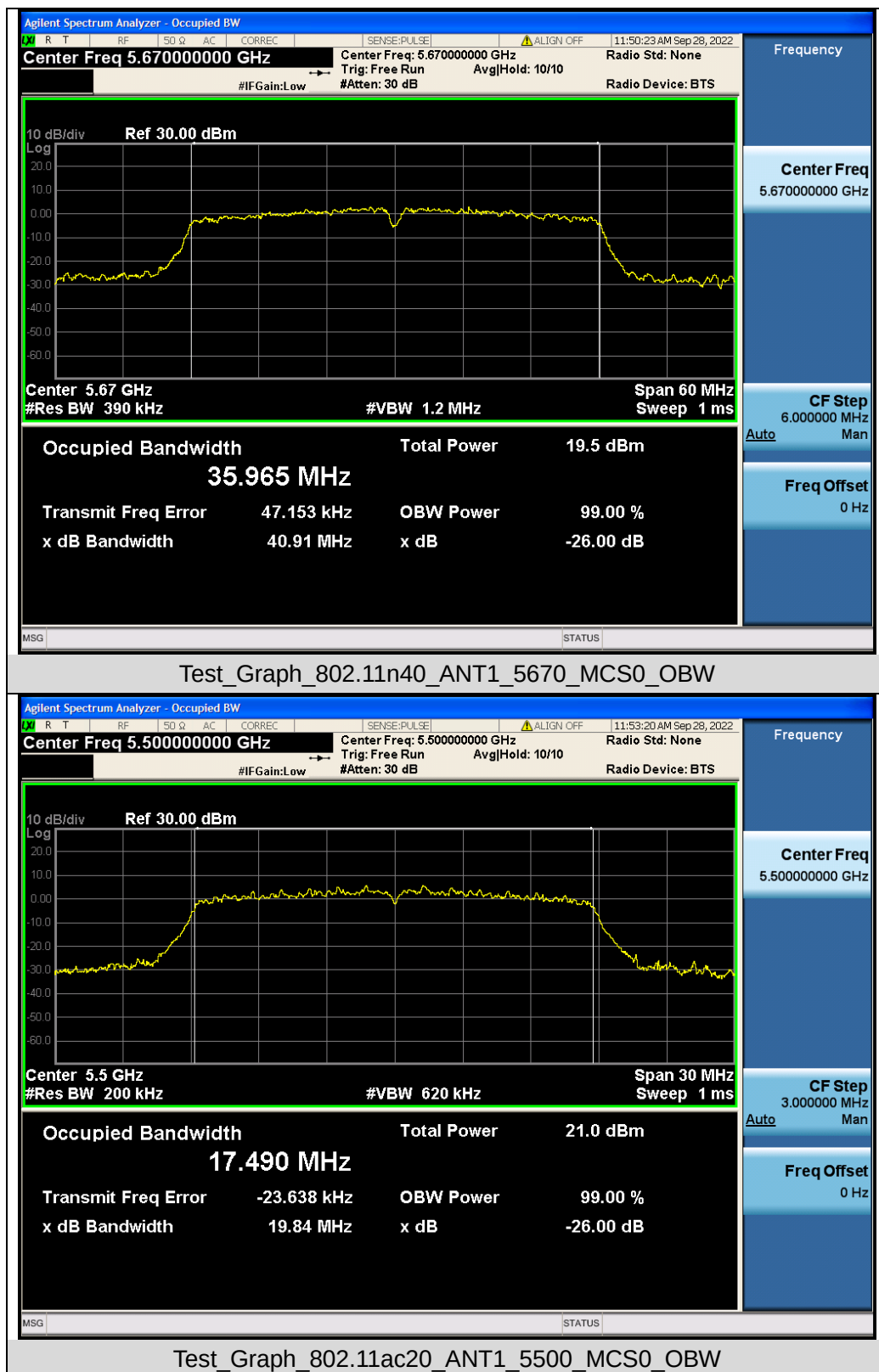


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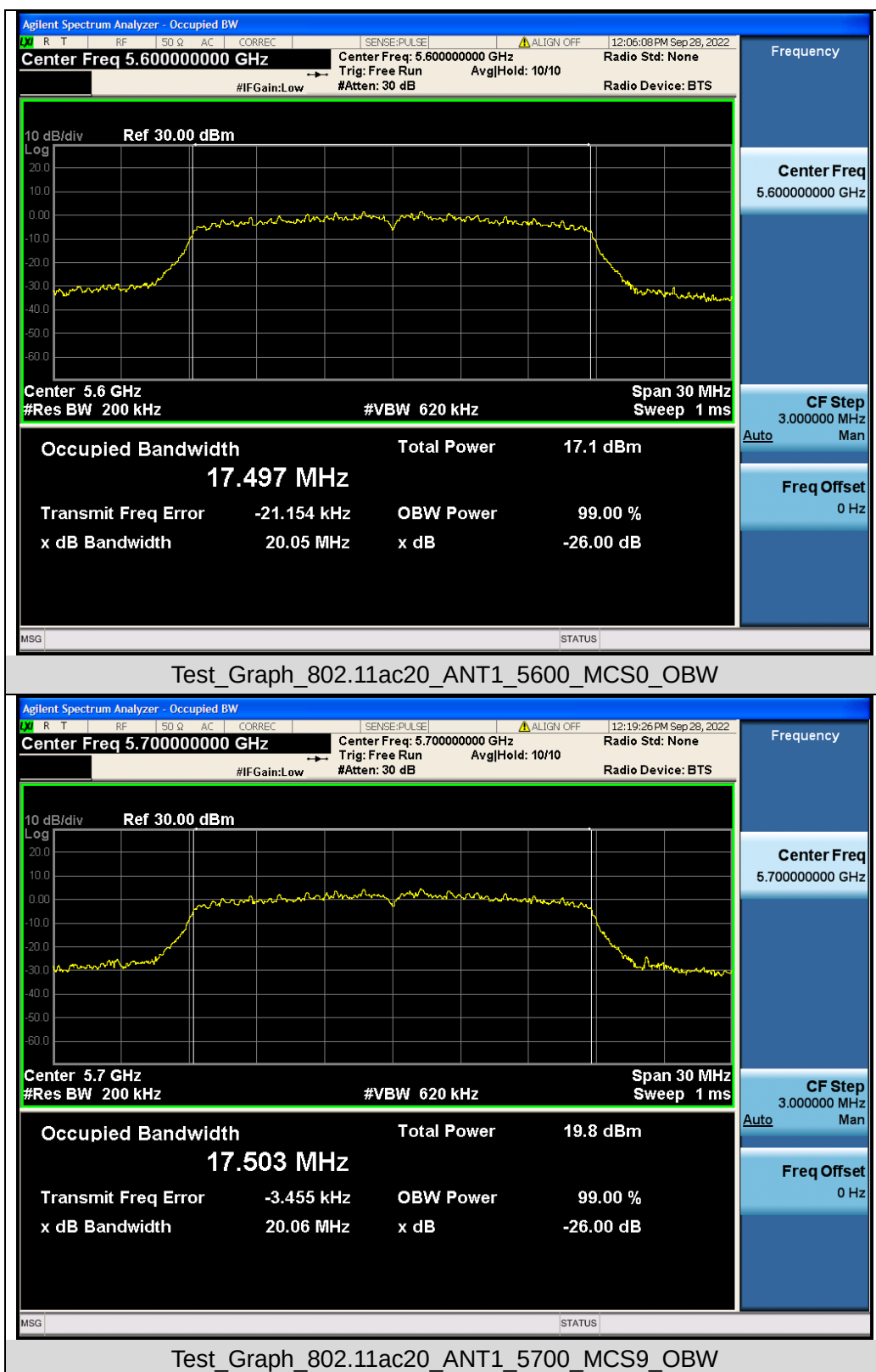
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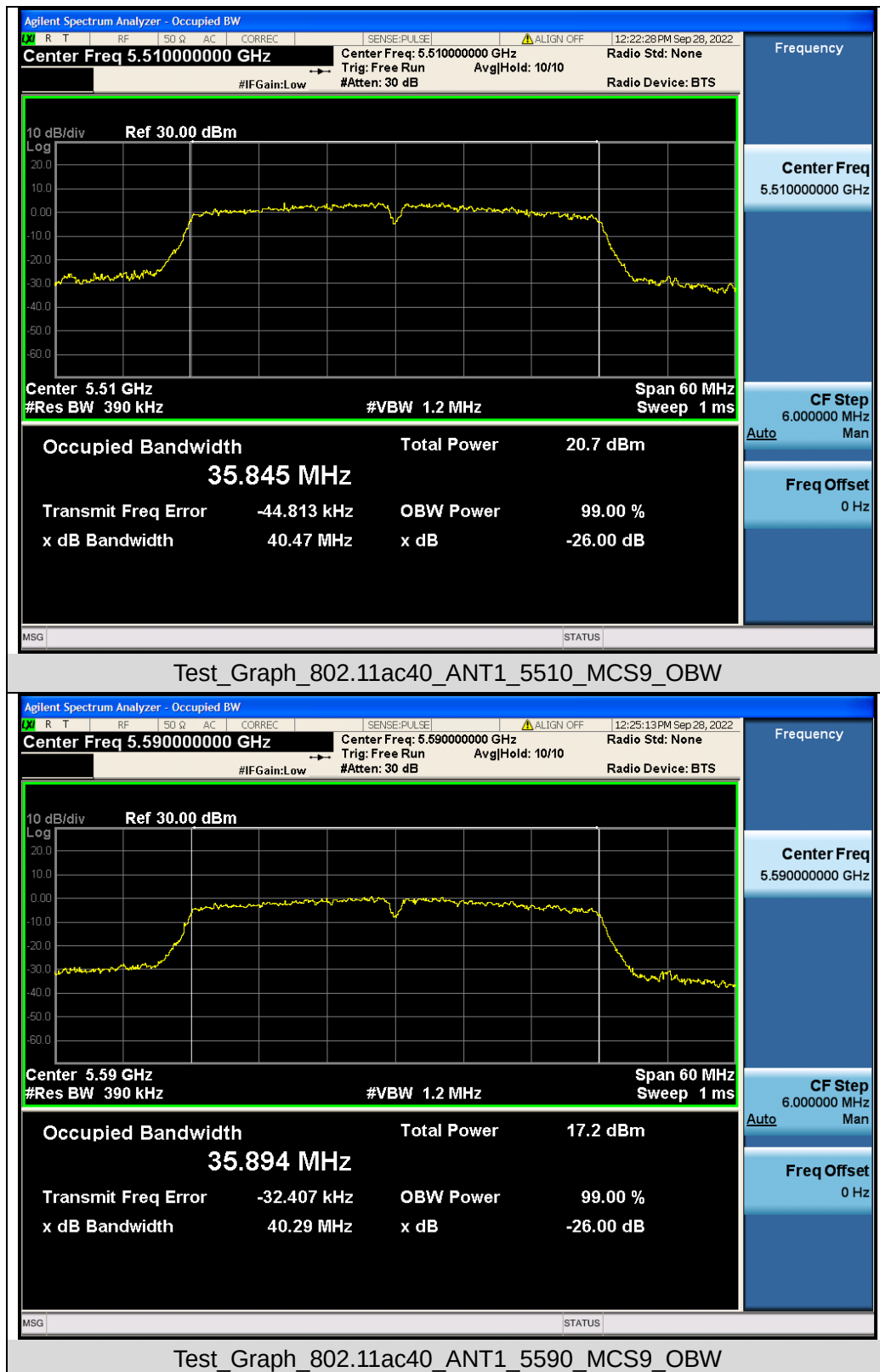


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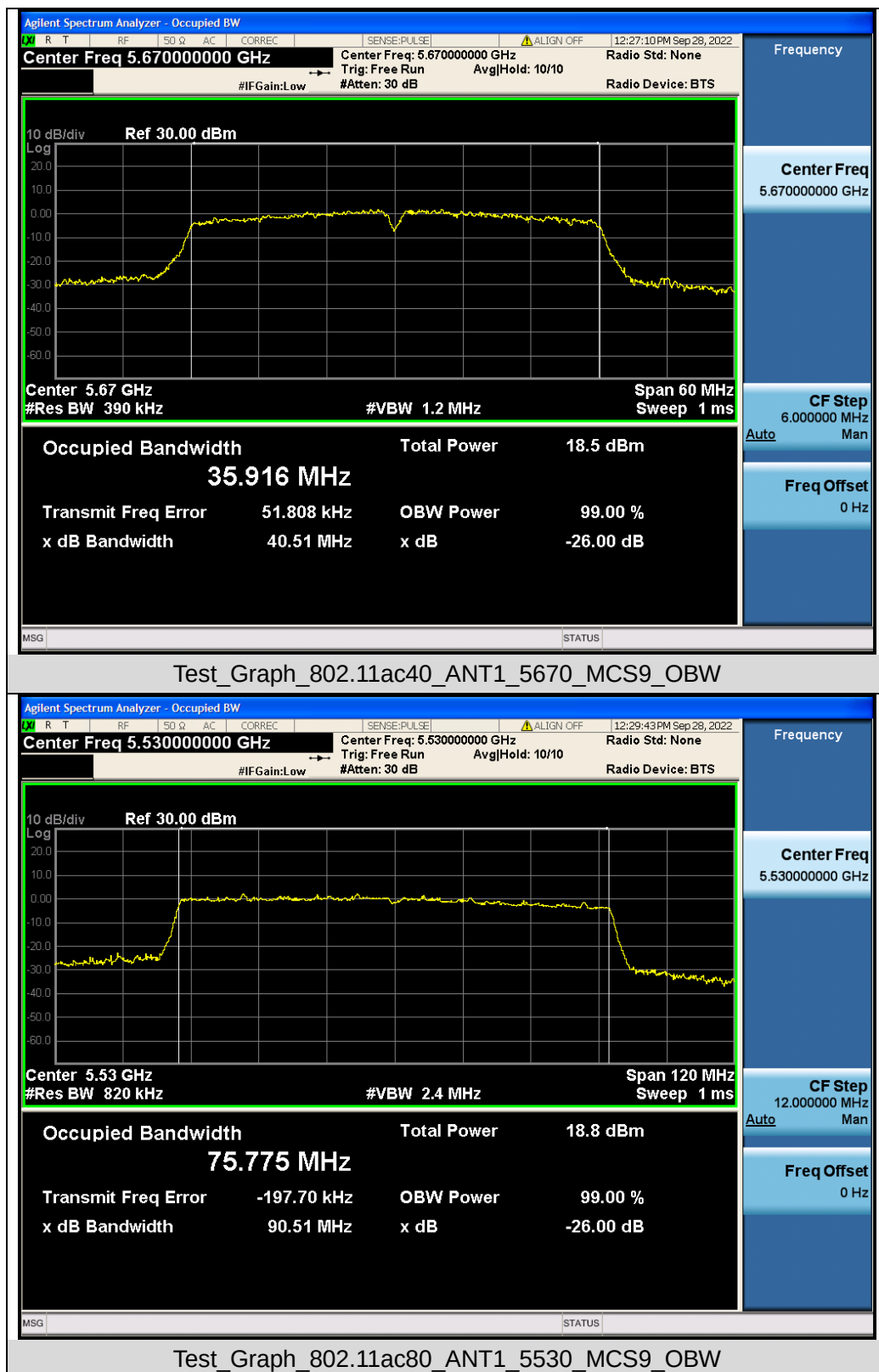
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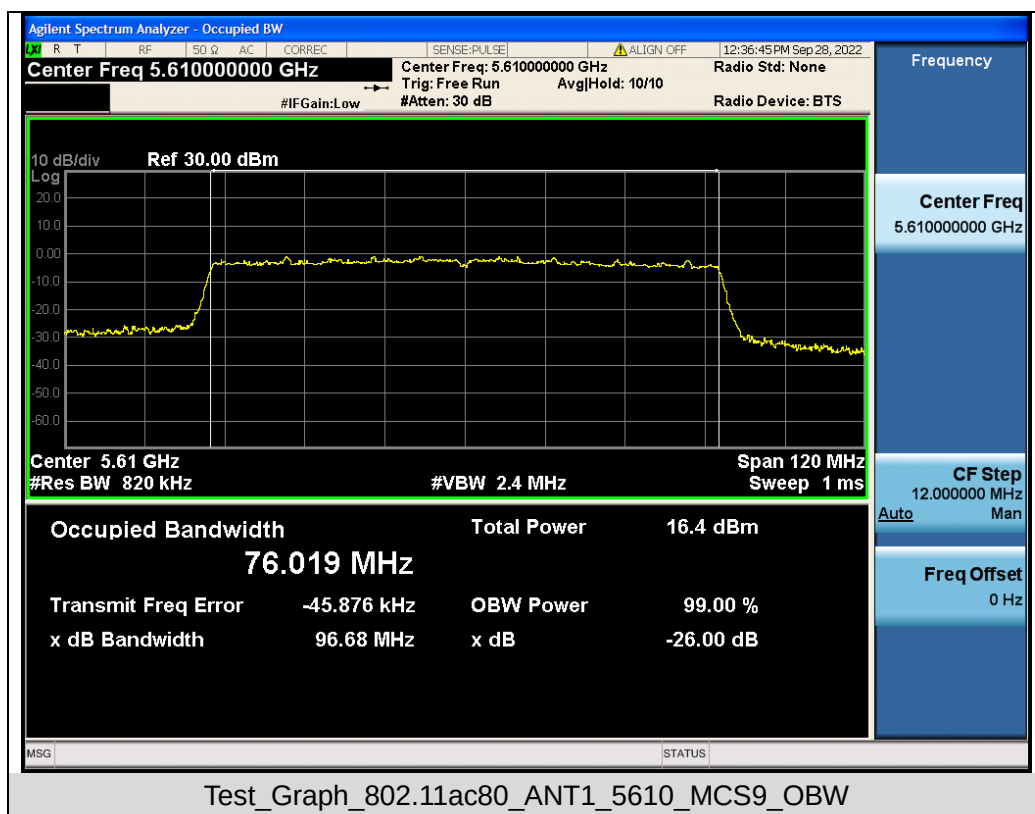
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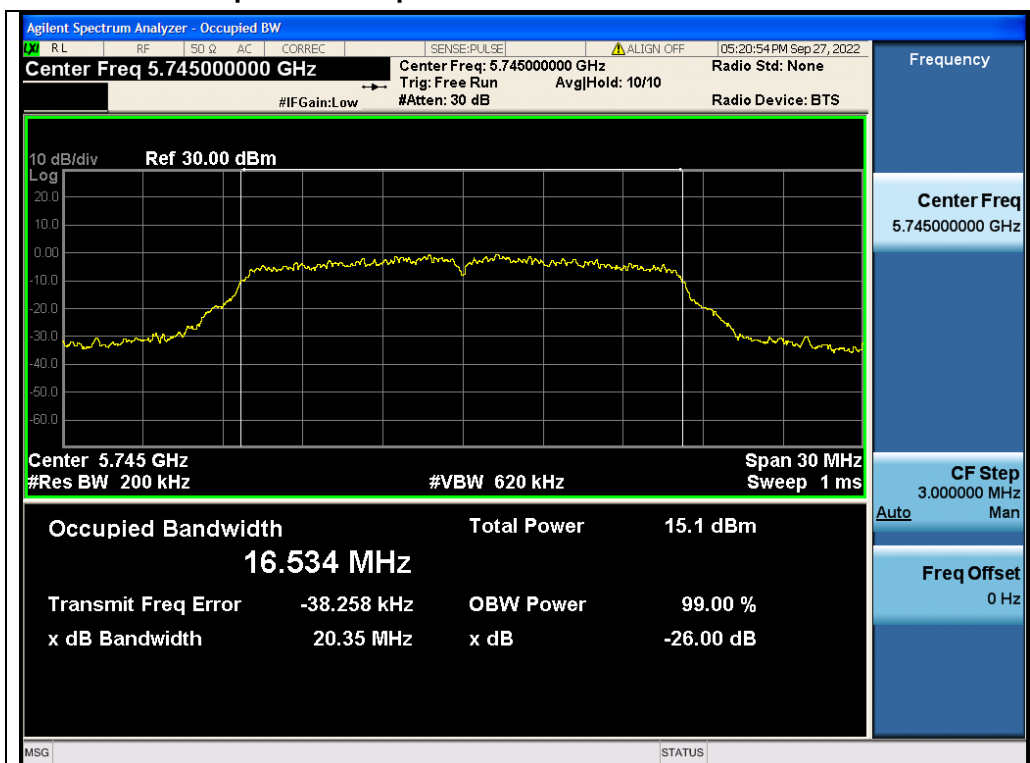


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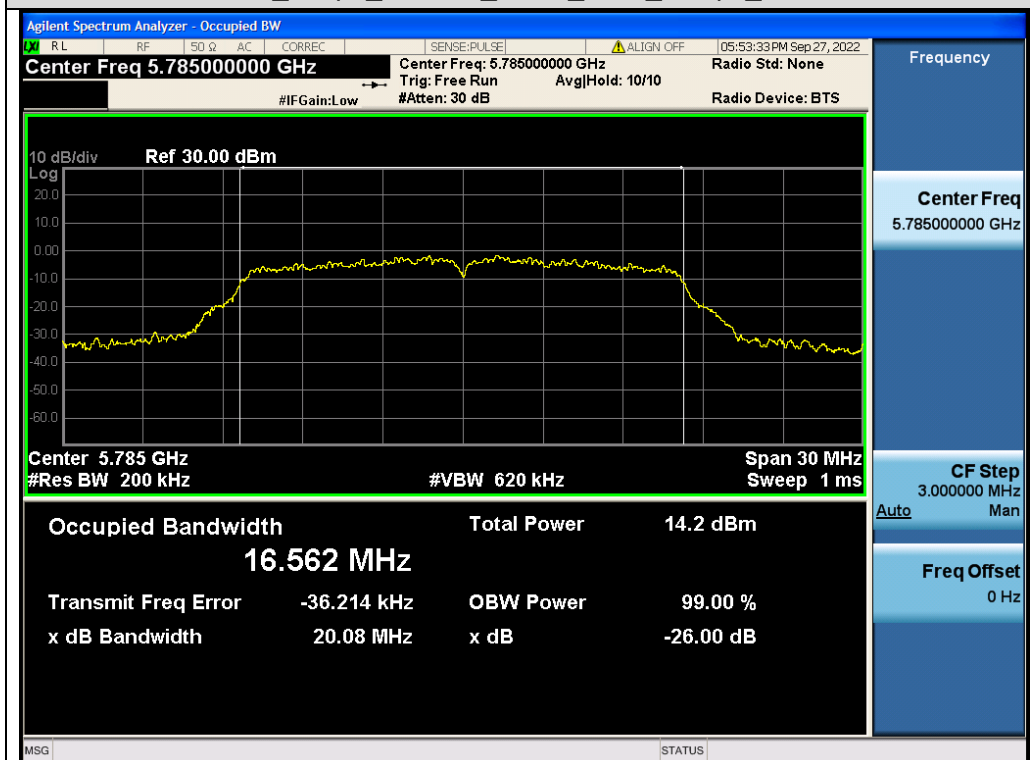


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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_OBW



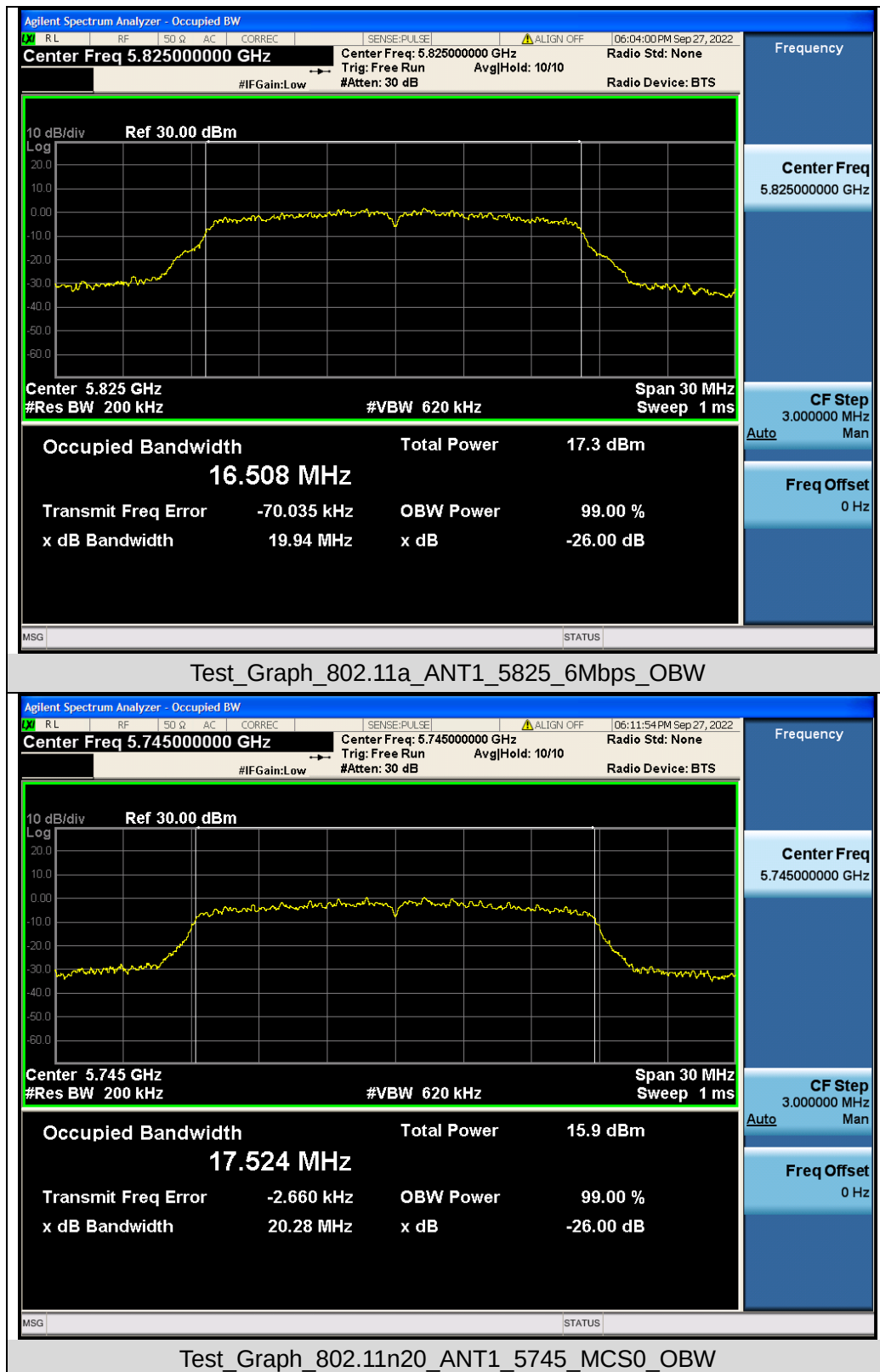
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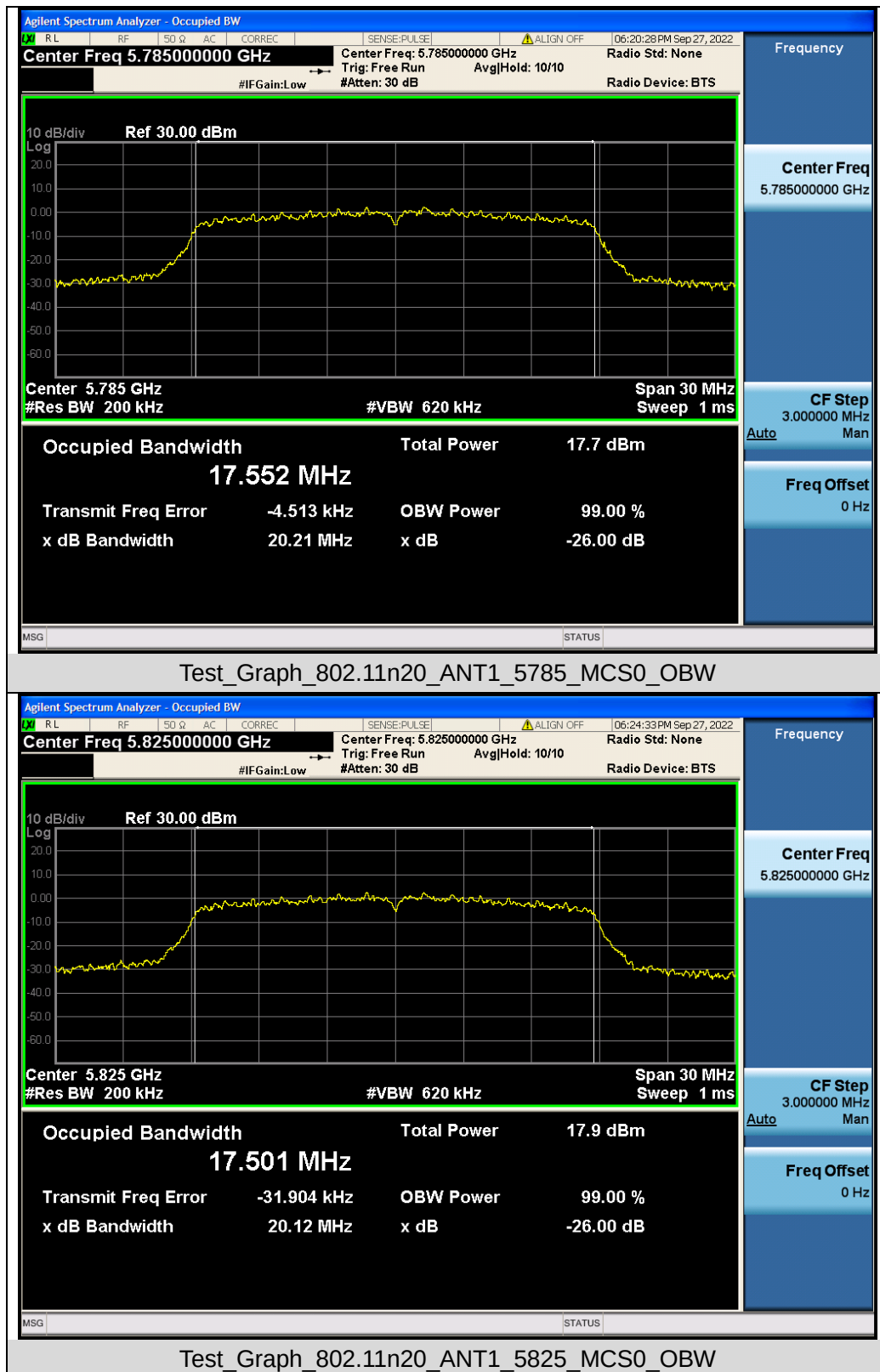
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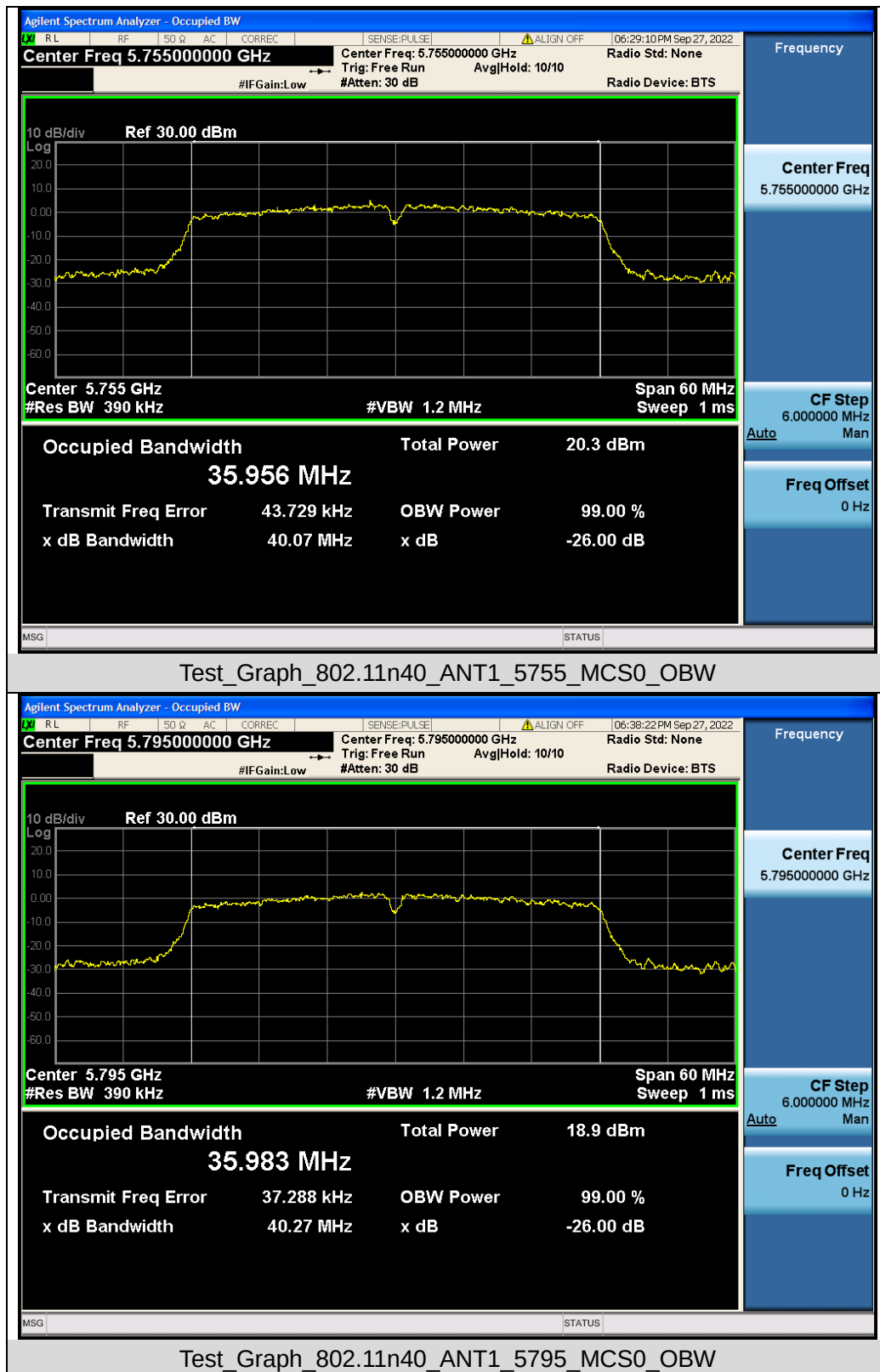
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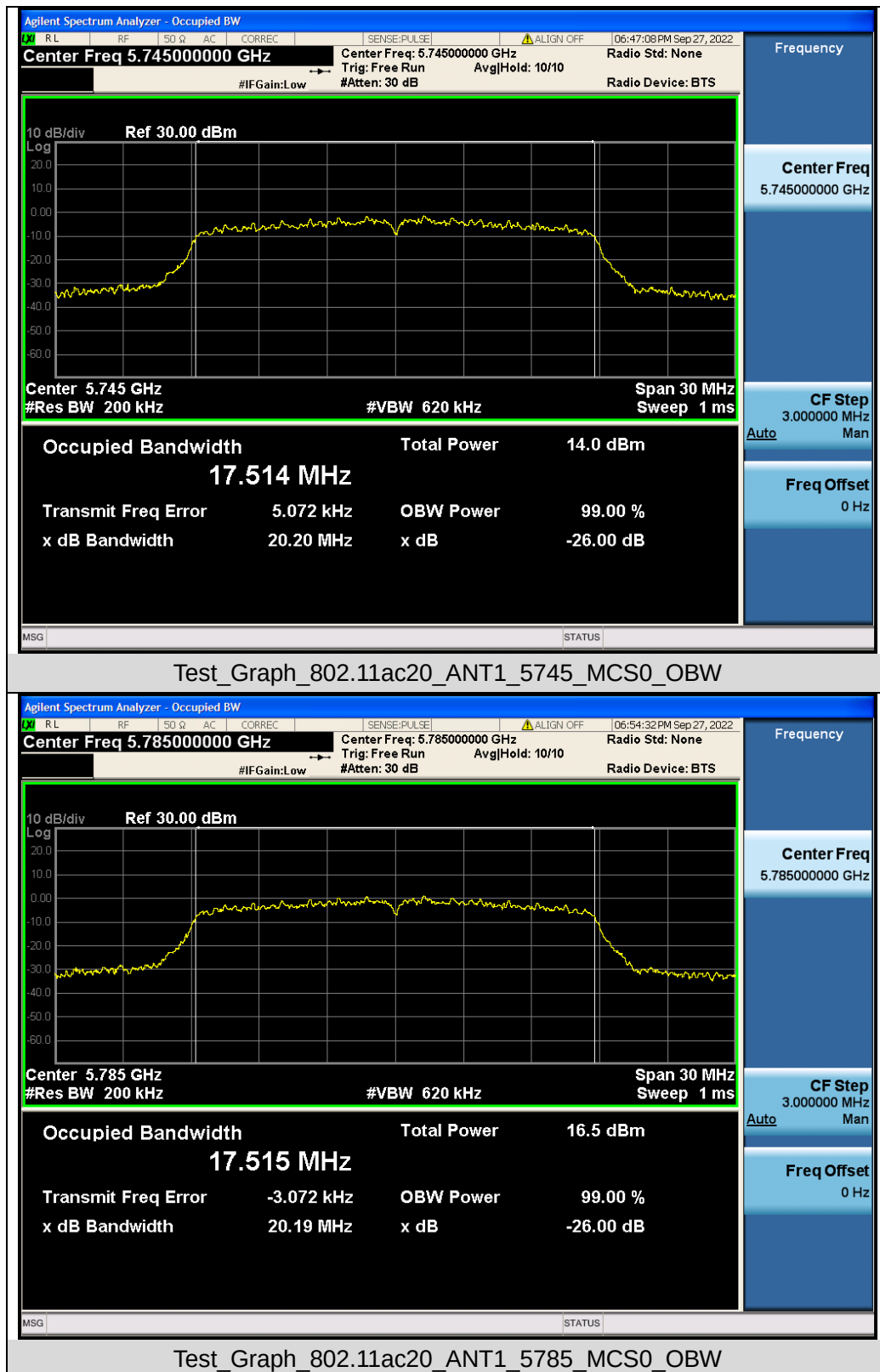
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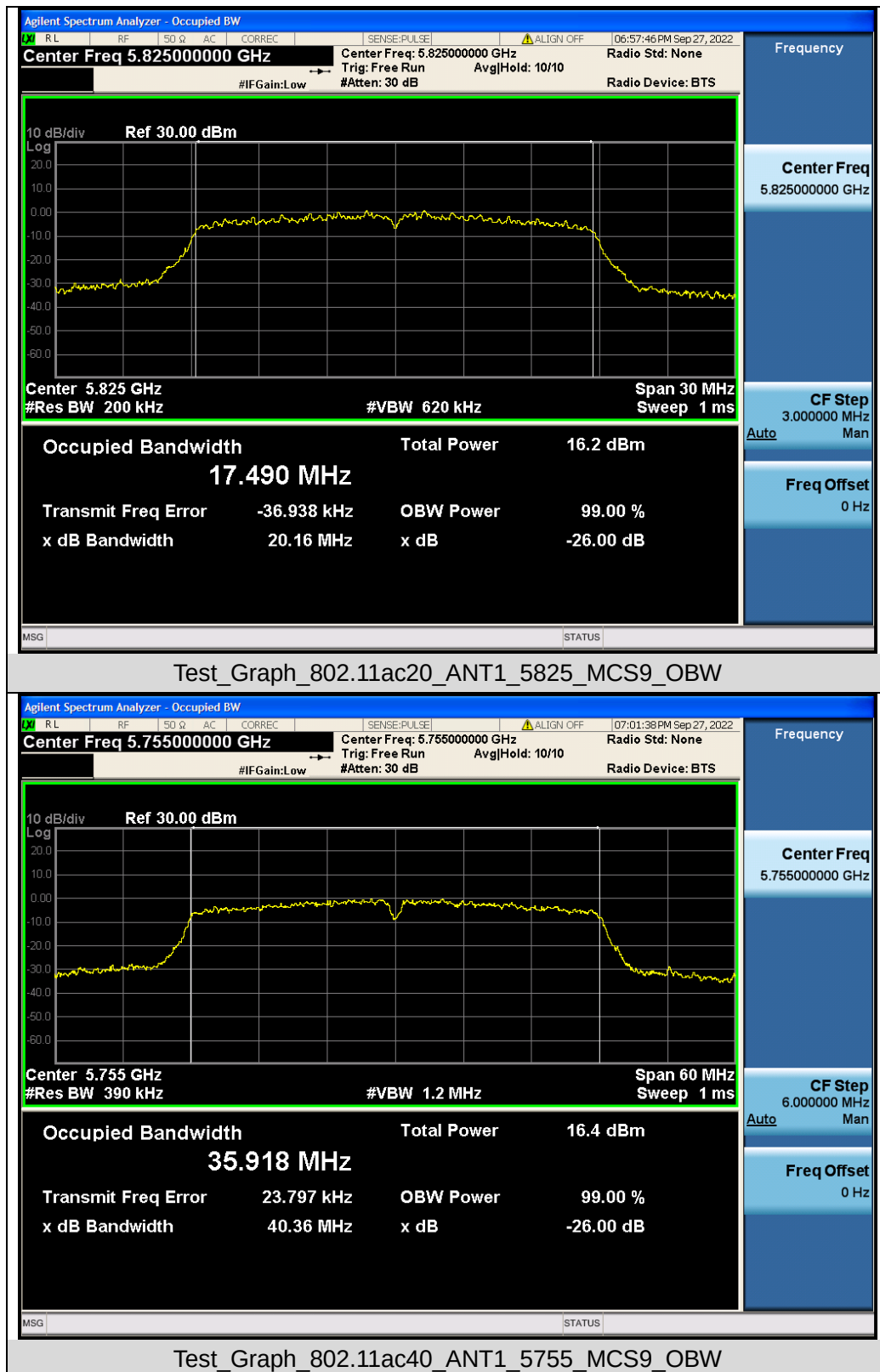
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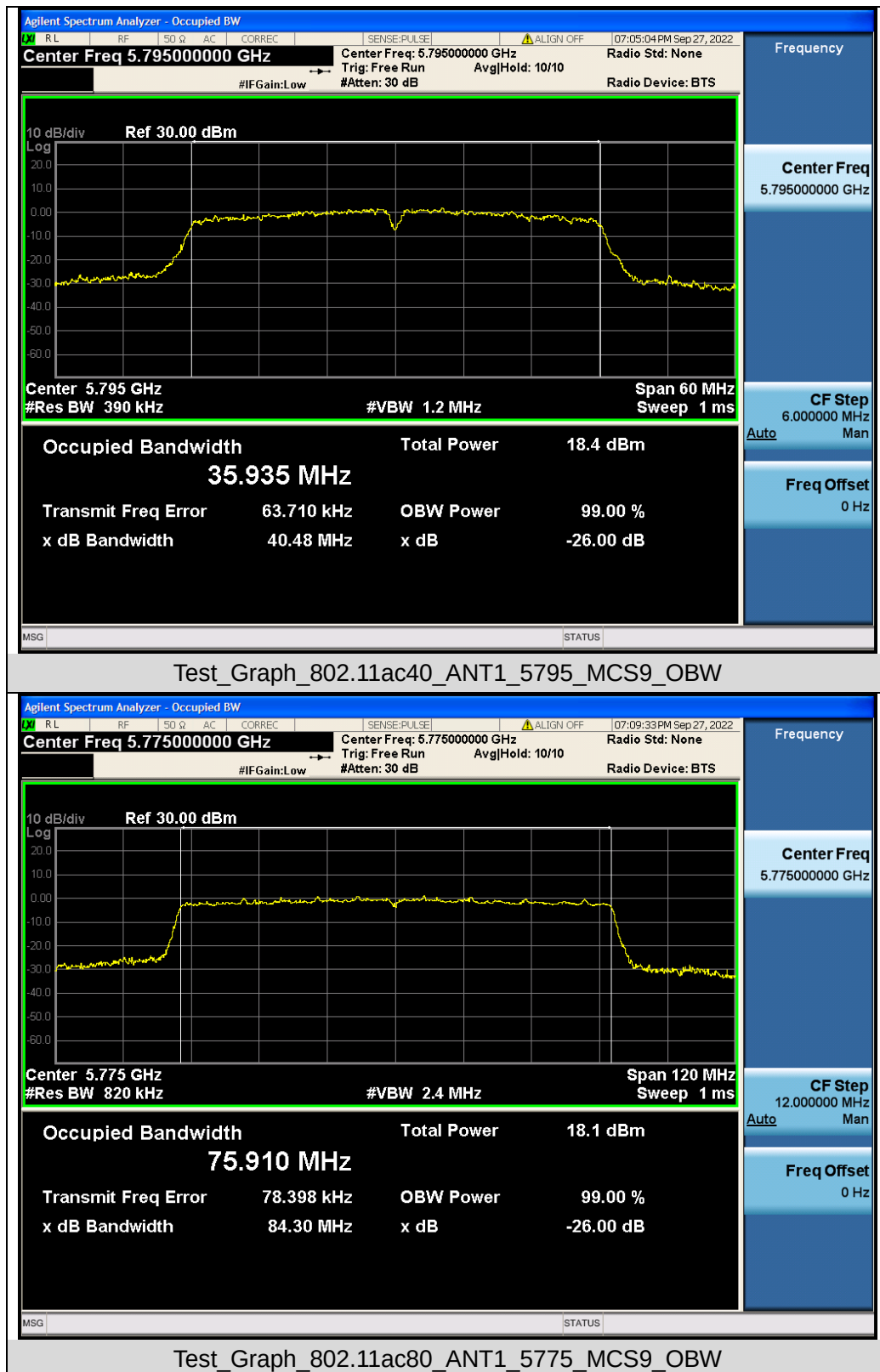
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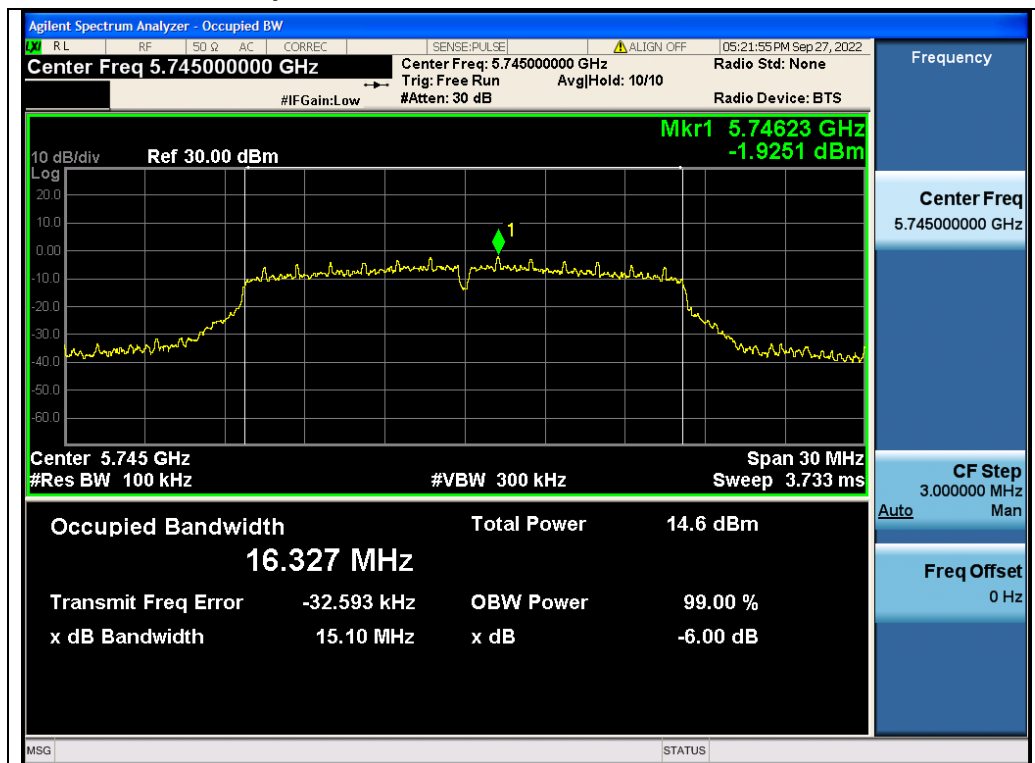


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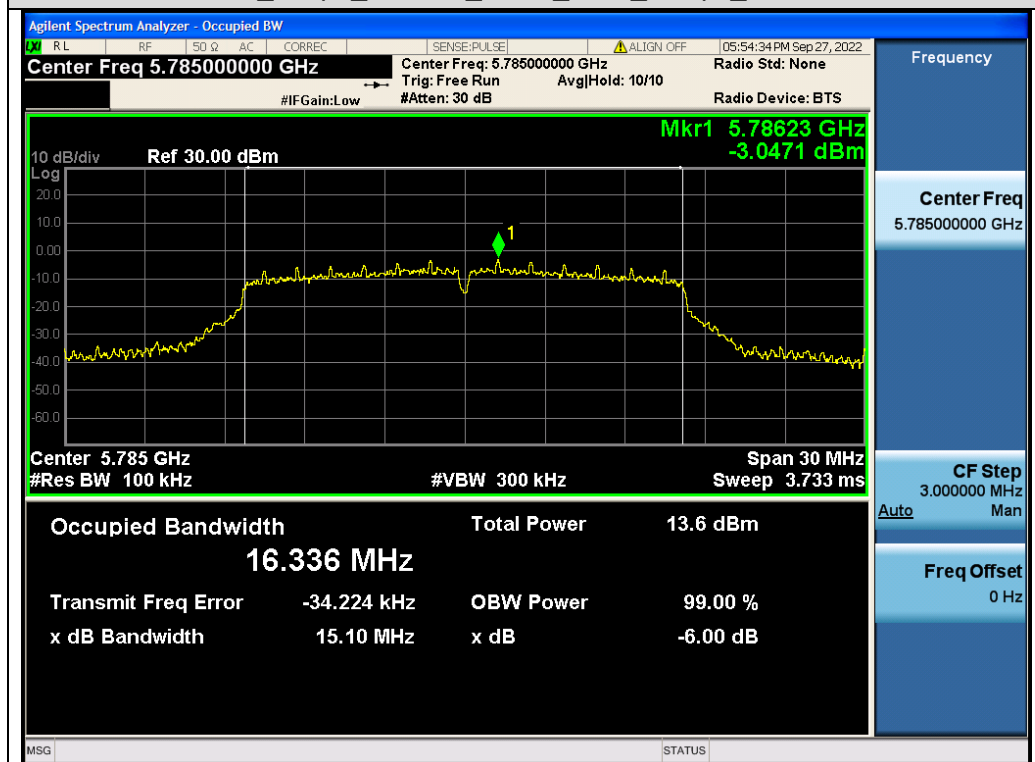


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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

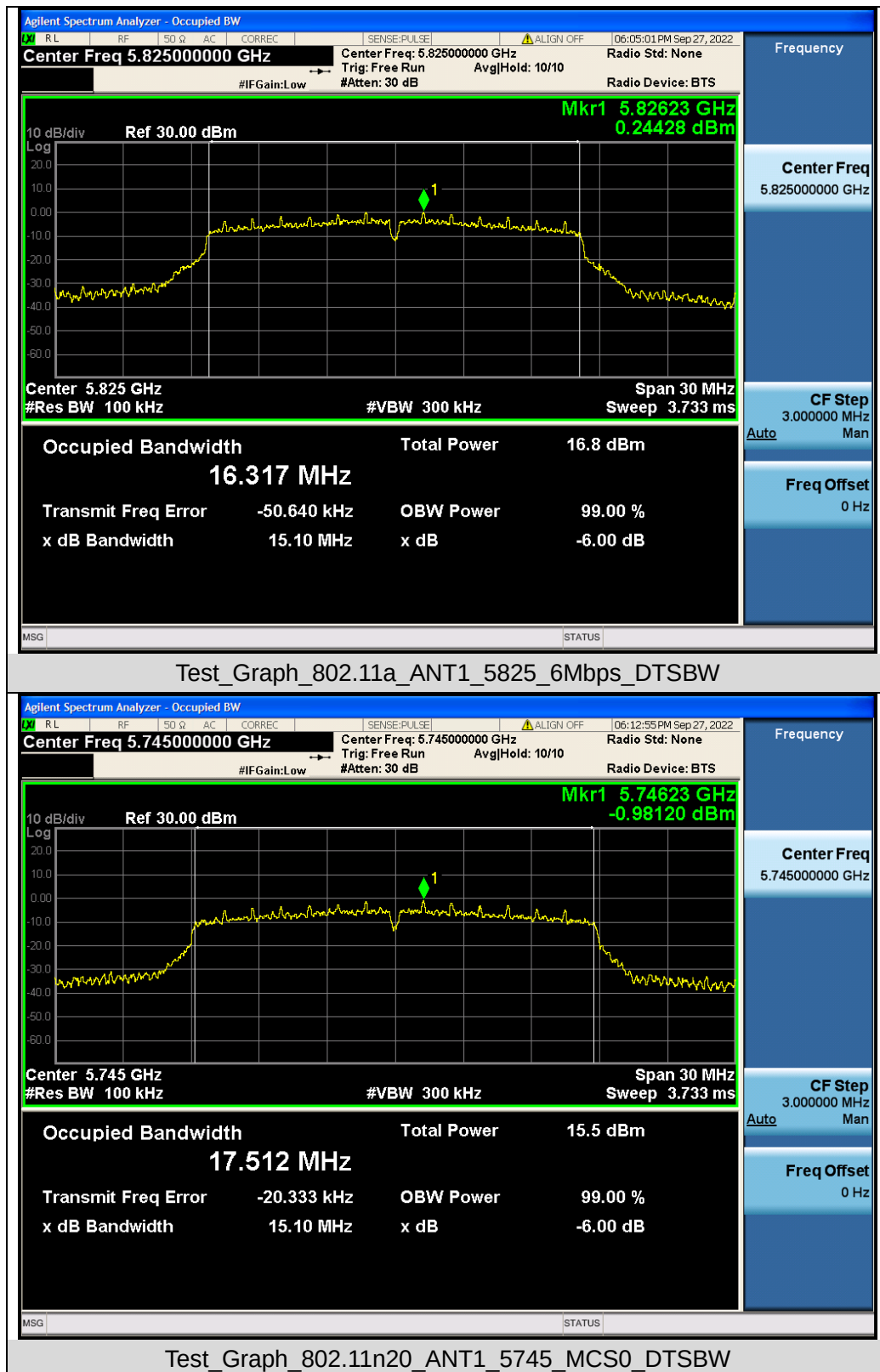


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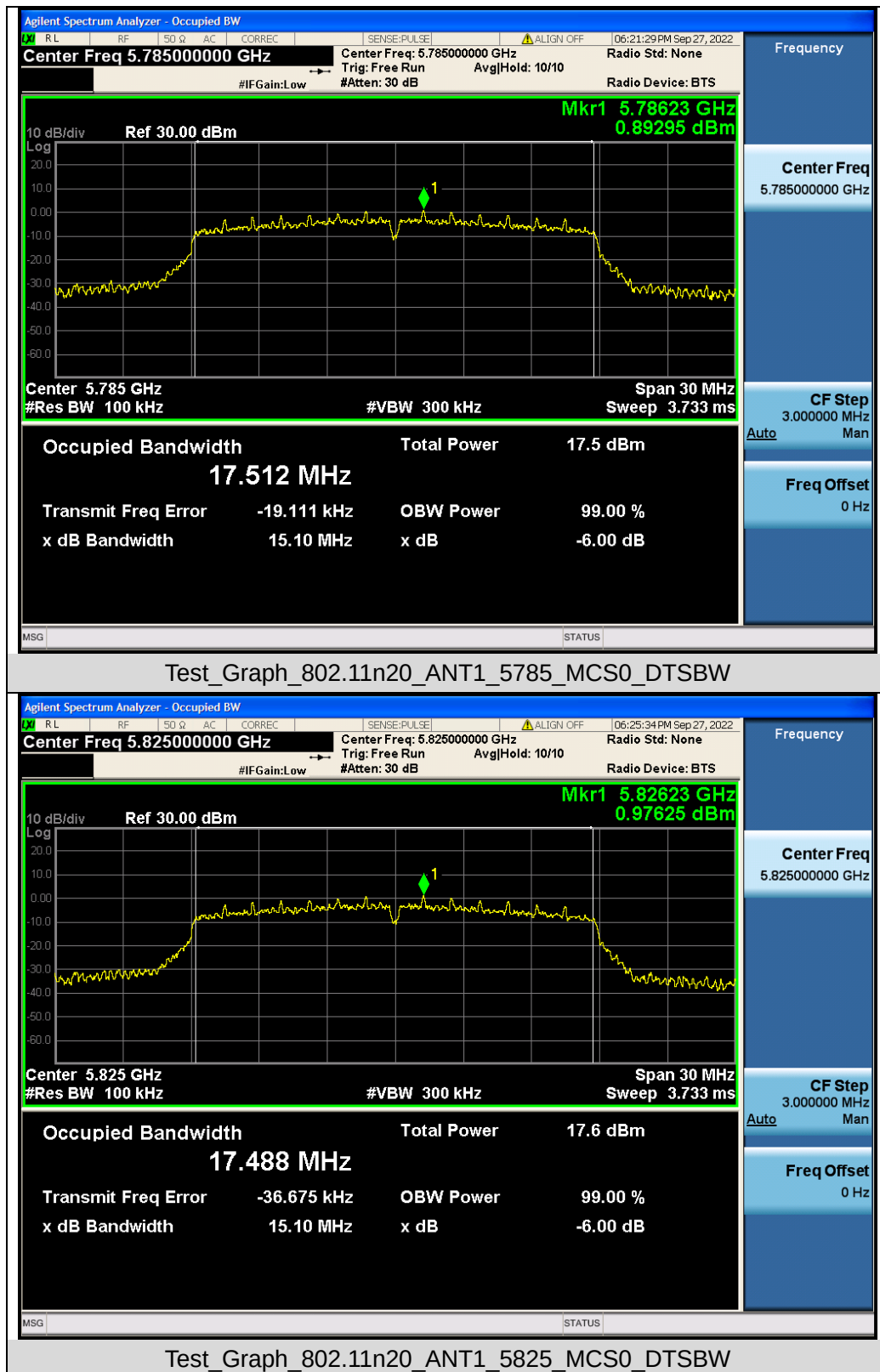


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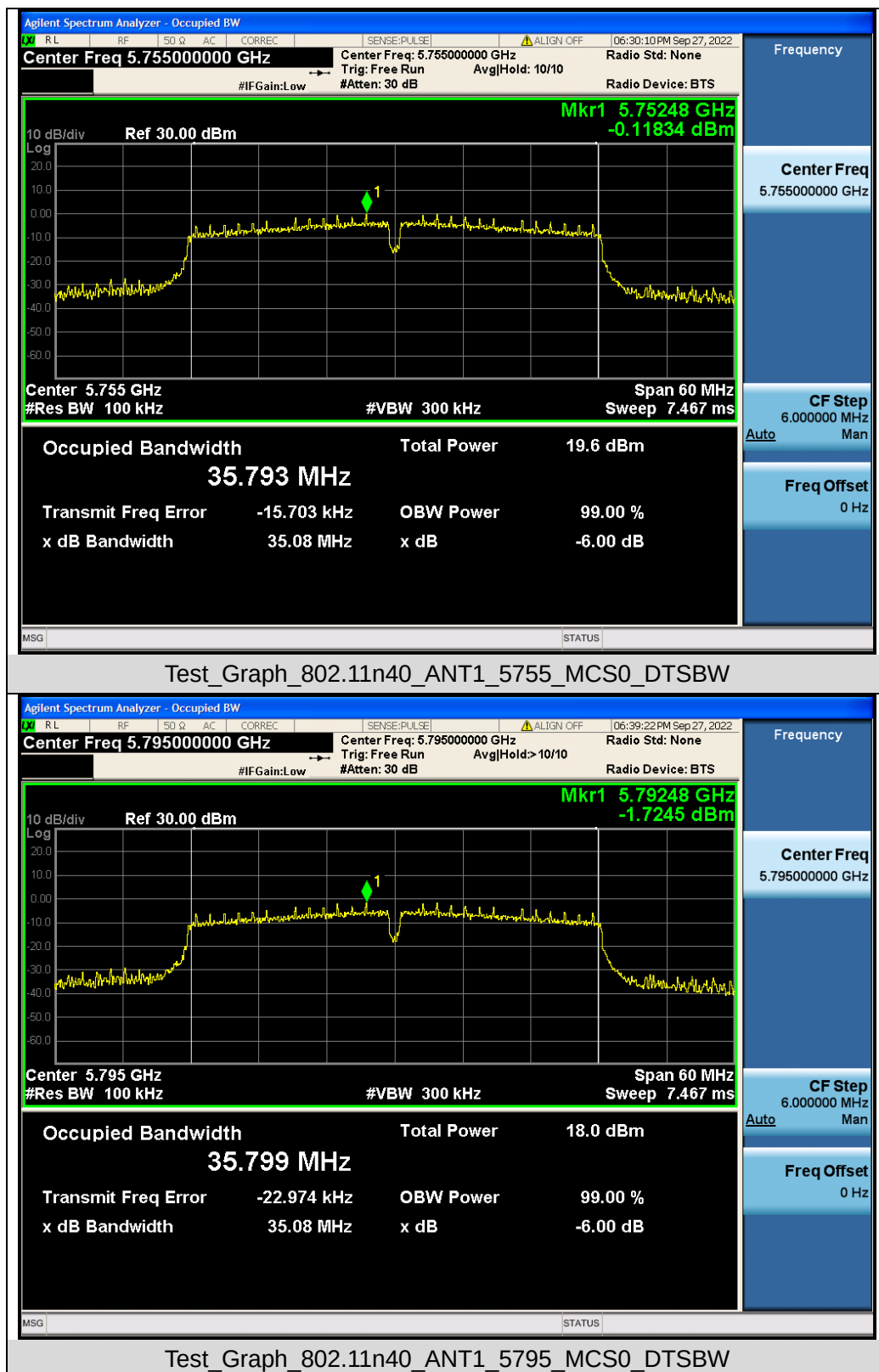
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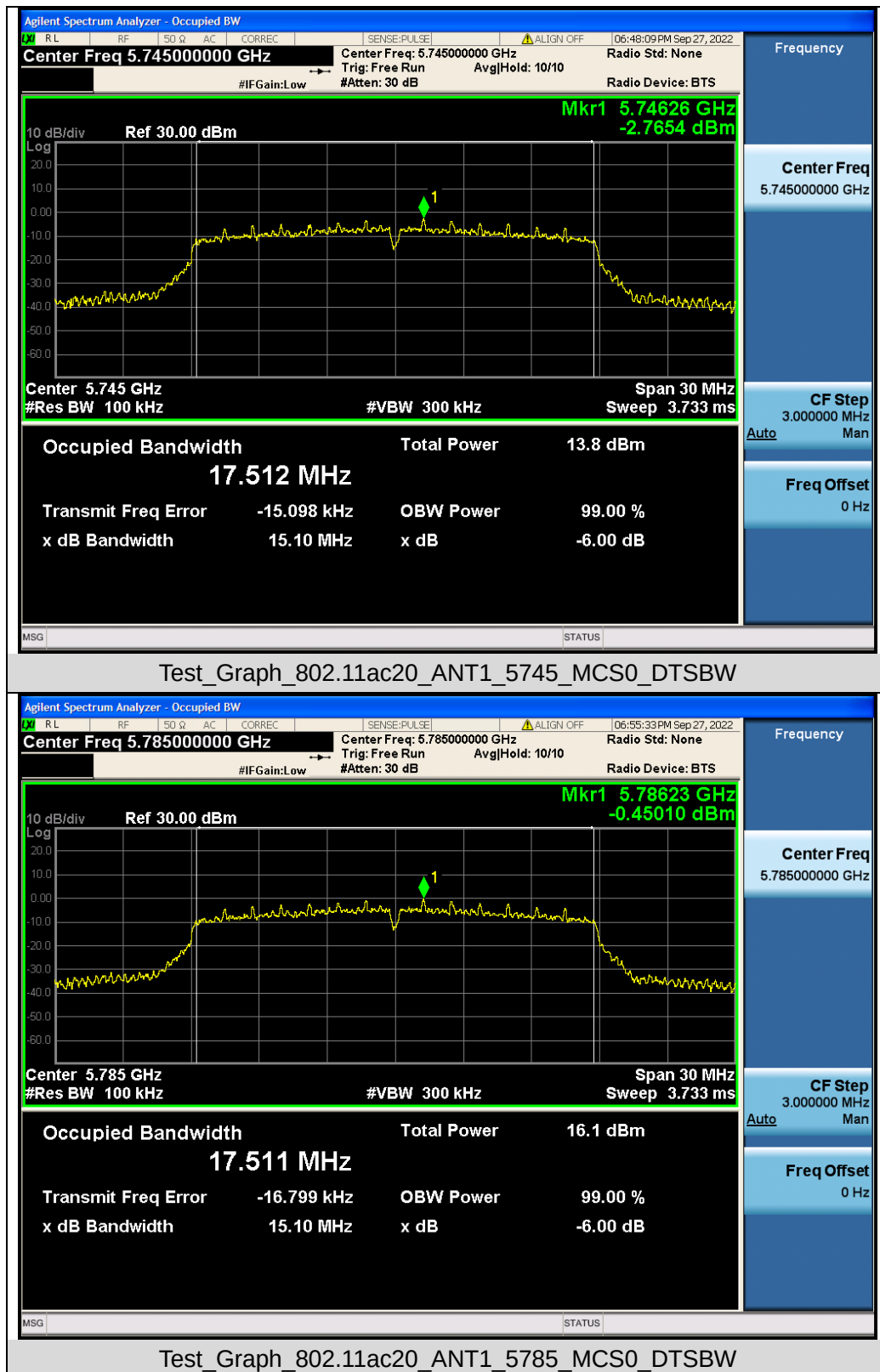
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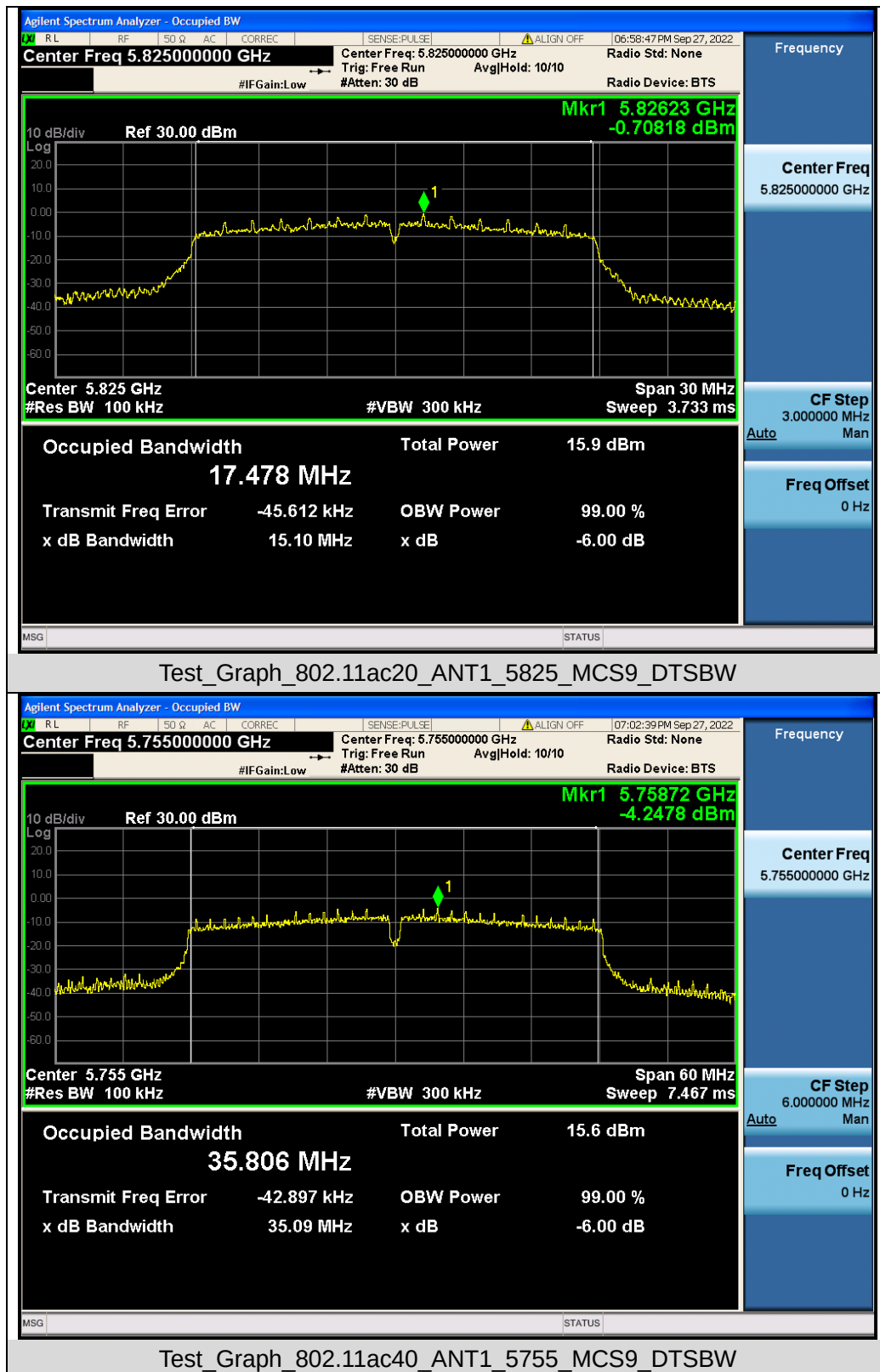
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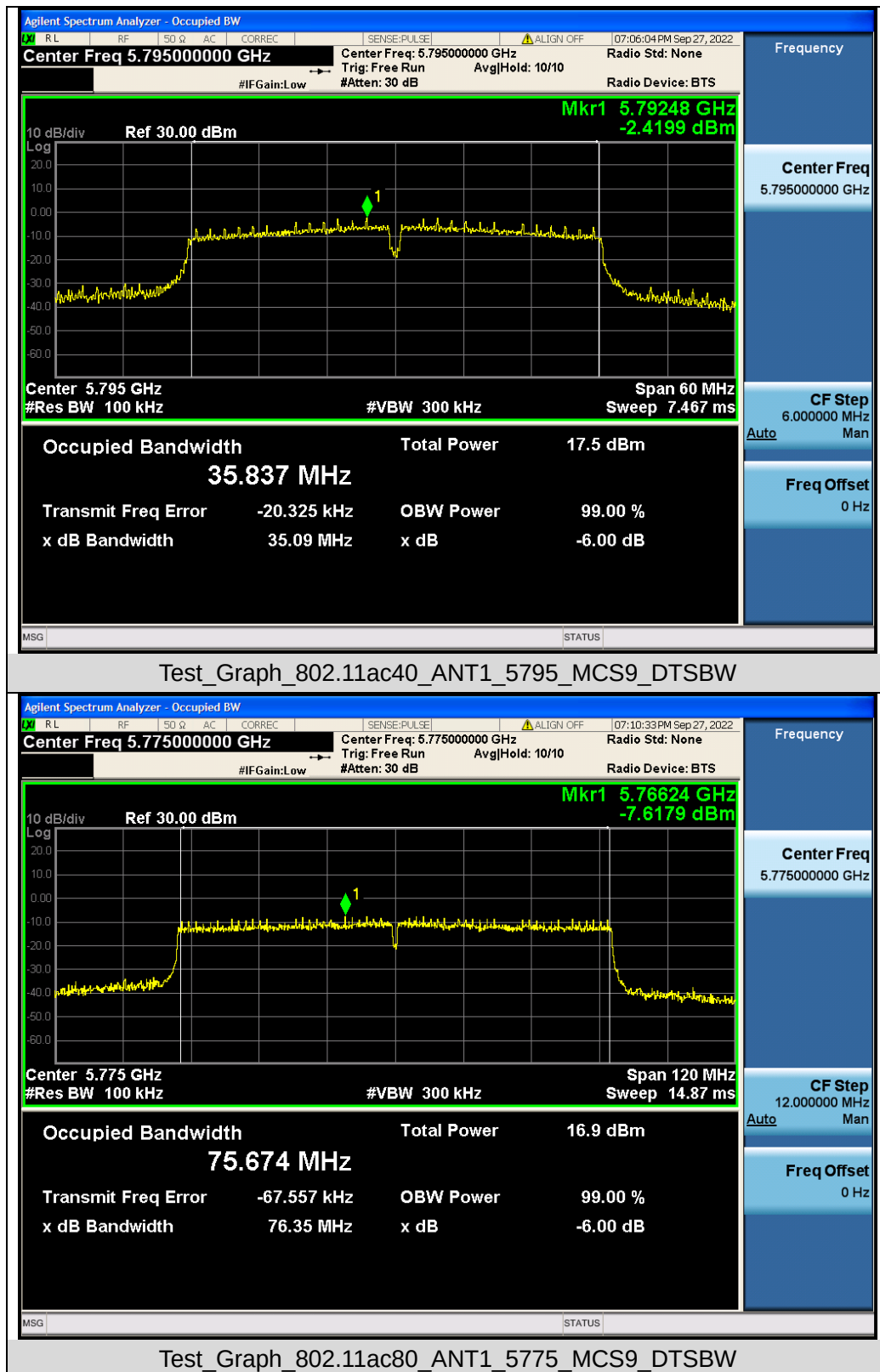
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9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

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	4.375	11	Pass
	5200	3.172	11	Pass
	5240	4.290	11	Pass
802.11n20	5180	5.242	11	Pass
	5200	5.793	11	Pass
	5240	3.389	11	Pass
802.11n40	5190	1.386	11	Pass
	5230	1.367	11	Pass
802.11ac20	5180	5.445	11	Pass
	5200	3.984	11	Pass
	5240	2.740	11	Pass
802.11ac40	5190	2.304	11	Pass
	5230	0.378	11	Pass
802.11ac80	5210	-2.144	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	4.134	11	Pass
	5300	4.333	11	Pass
	5320	5.694	11	Pass
802.11n20	5260	4.078	11	Pass
	5300	4.547	11	Pass
	5320	4.863	11	Pass
802.11n40	5270	1.037	11	Pass
	5310	1.648	11	Pass
802.11ac20	5260	3.831	11	Pass
	5300	3.947	11	Pass
	5320	5.566	11	Pass
802.11ac40	5270	1.019	11	Pass
	5310	1.764	11	Pass
802.11ac80	5290	-4.020	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	4.728	11	Pass
	5600	2.472	11	Pass
	5700	3.166	11	Pass
802.11n20	5500	4.547	11	Pass
	5600	1.745	11	Pass
	5700	3.257	11	Pass
802.11n40	5510	1.026	11	Pass
	5590	-0.253	11	Pass
802.11ac20	5670	0.218	11	Pass
	5500	3.649	11	Pass
	5600	0.537	11	Pass
802.11ac40	5700	3.290	11	Pass
	5510	1.684	11	Pass
802.11ac80	5610	-6.059	11	Pass

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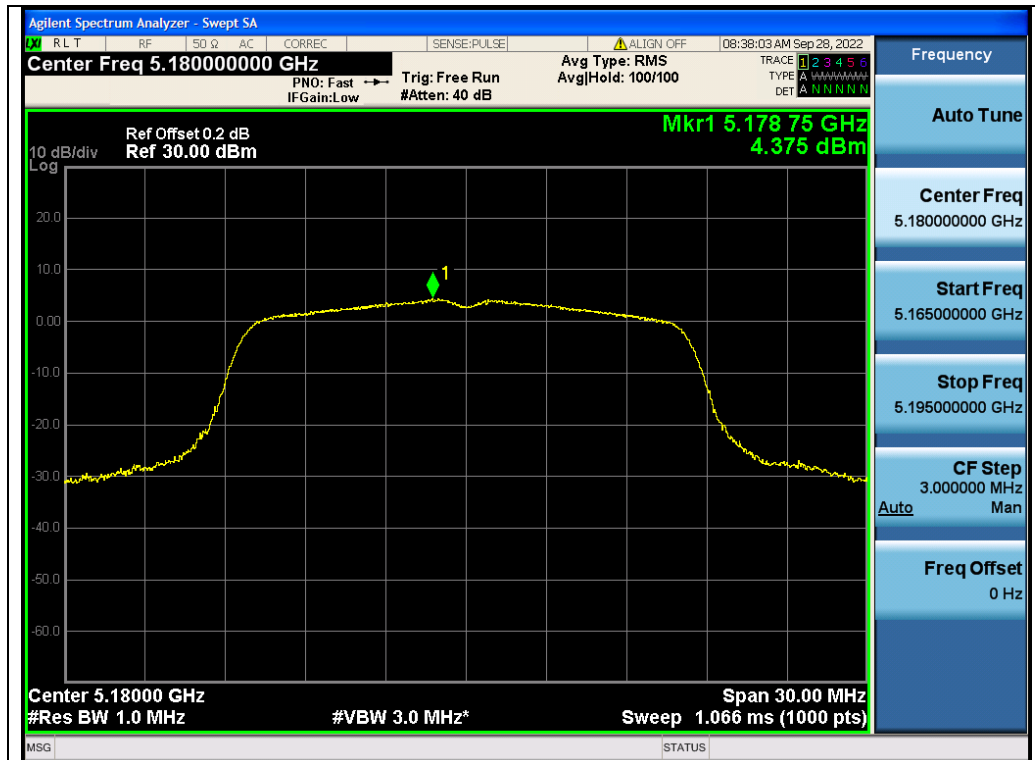
Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-6.481	0.509	30	Pass
	5785	-8.312	-1.322	30	Pass
	5825	-7.671	-0.681	30	Pass
802.11n20	5745	-7.577	-0.587	30	Pass
	5785	-7.302	-0.312	30	Pass
	5825	-7.315	-0.325	30	Pass
802.11n40	5755	-9.478	-2.488	30	Pass
	5795	-9.382	-2.392	30	Pass
802.11ac20	5745	-9.226	-2.236	30	Pass
	5785	-8.627	-1.637	30	Pass
	5825	-8.643	-1.653	30	Pass
802.11ac40	5755	-11.859	-4.869	30	Pass
	5795	-10.201	-3.211	30	Pass
802.11ac80	5775	-15.122	-8.132	30	Pass

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

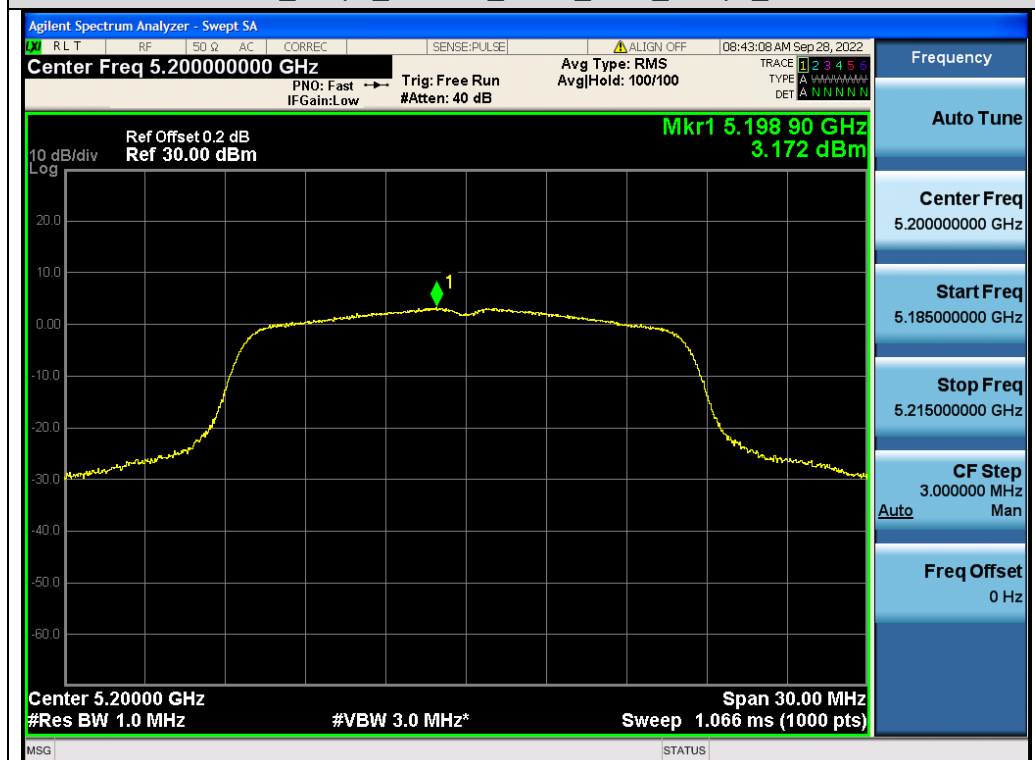
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Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz

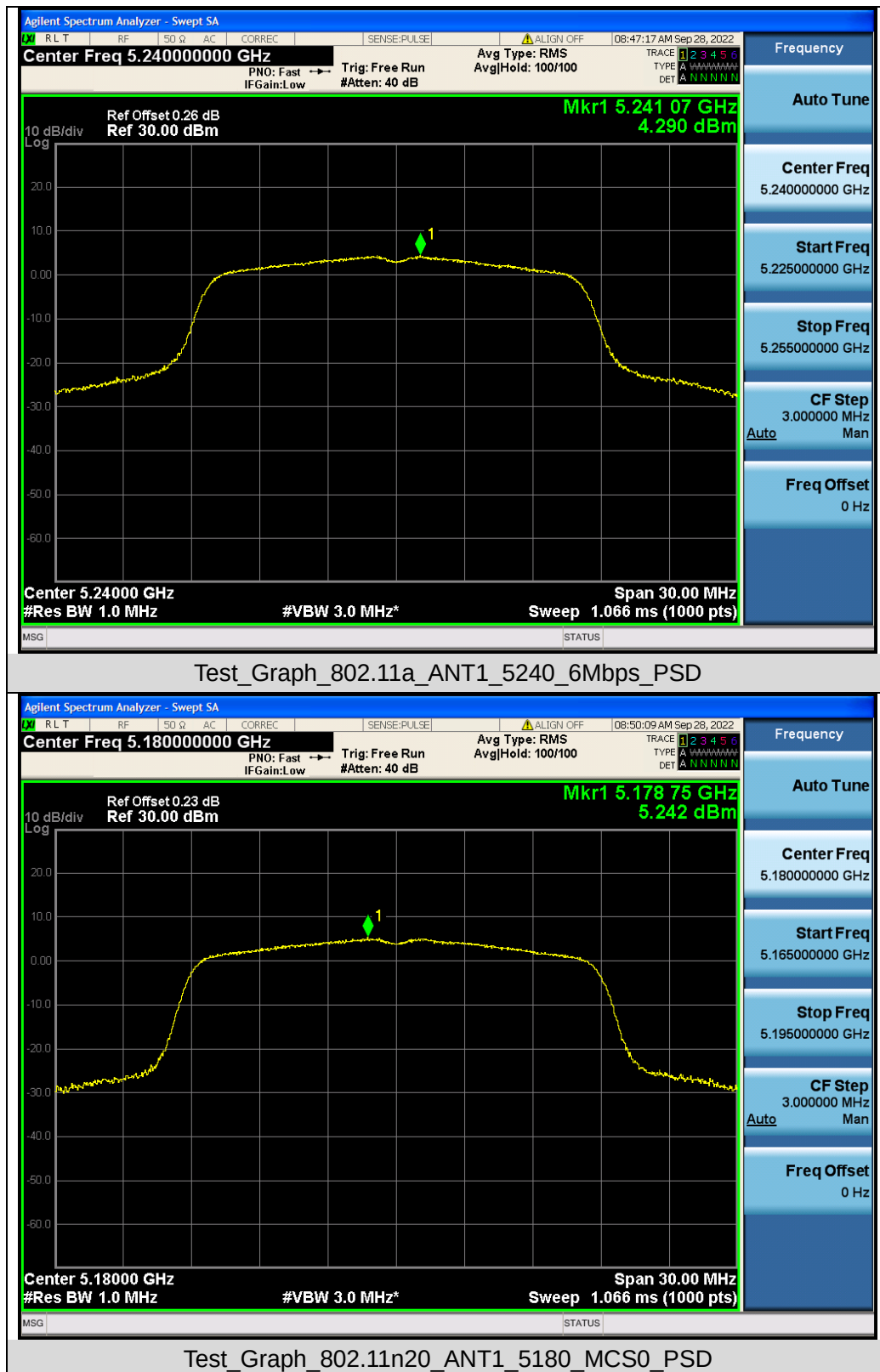


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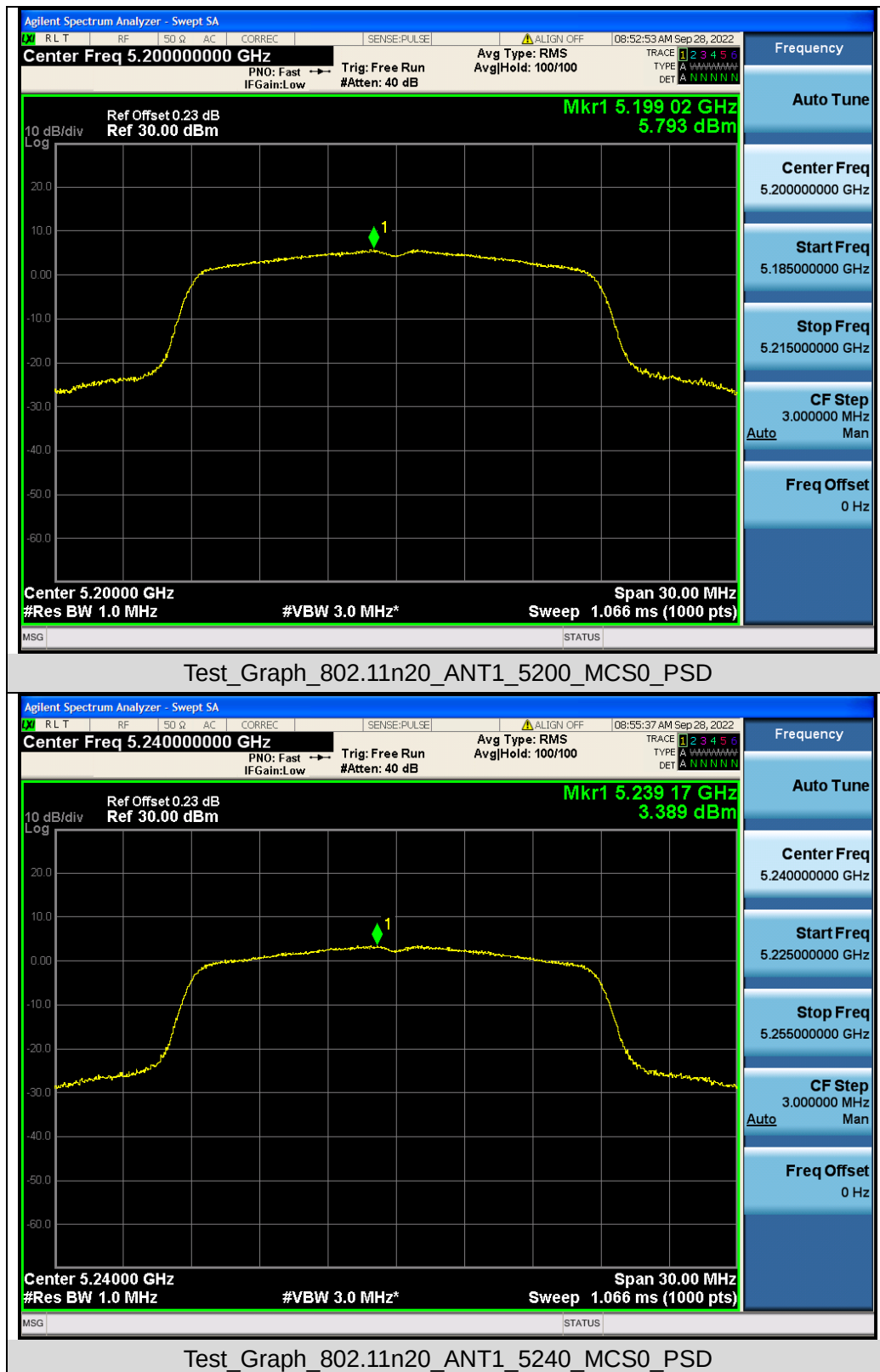


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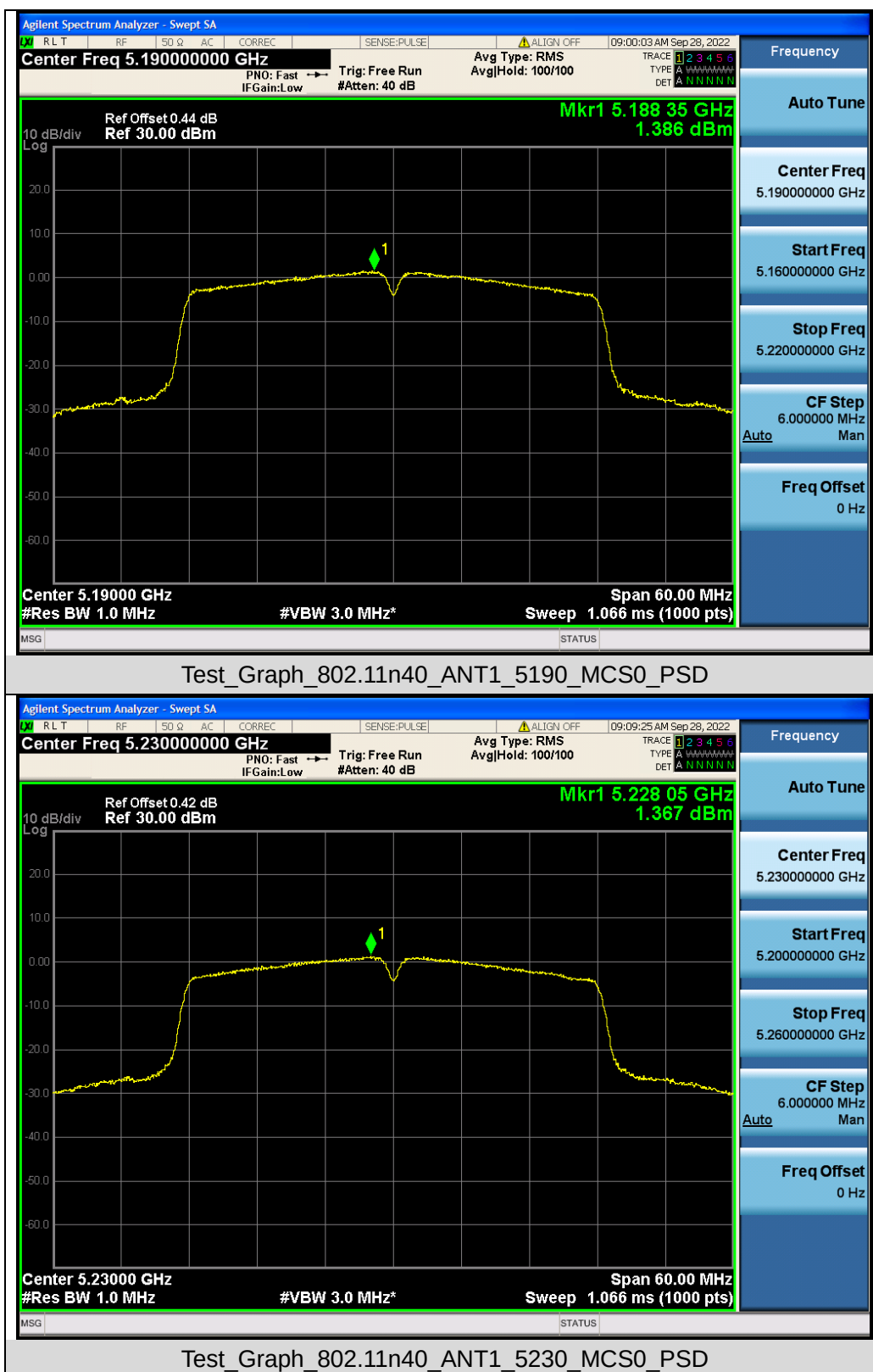
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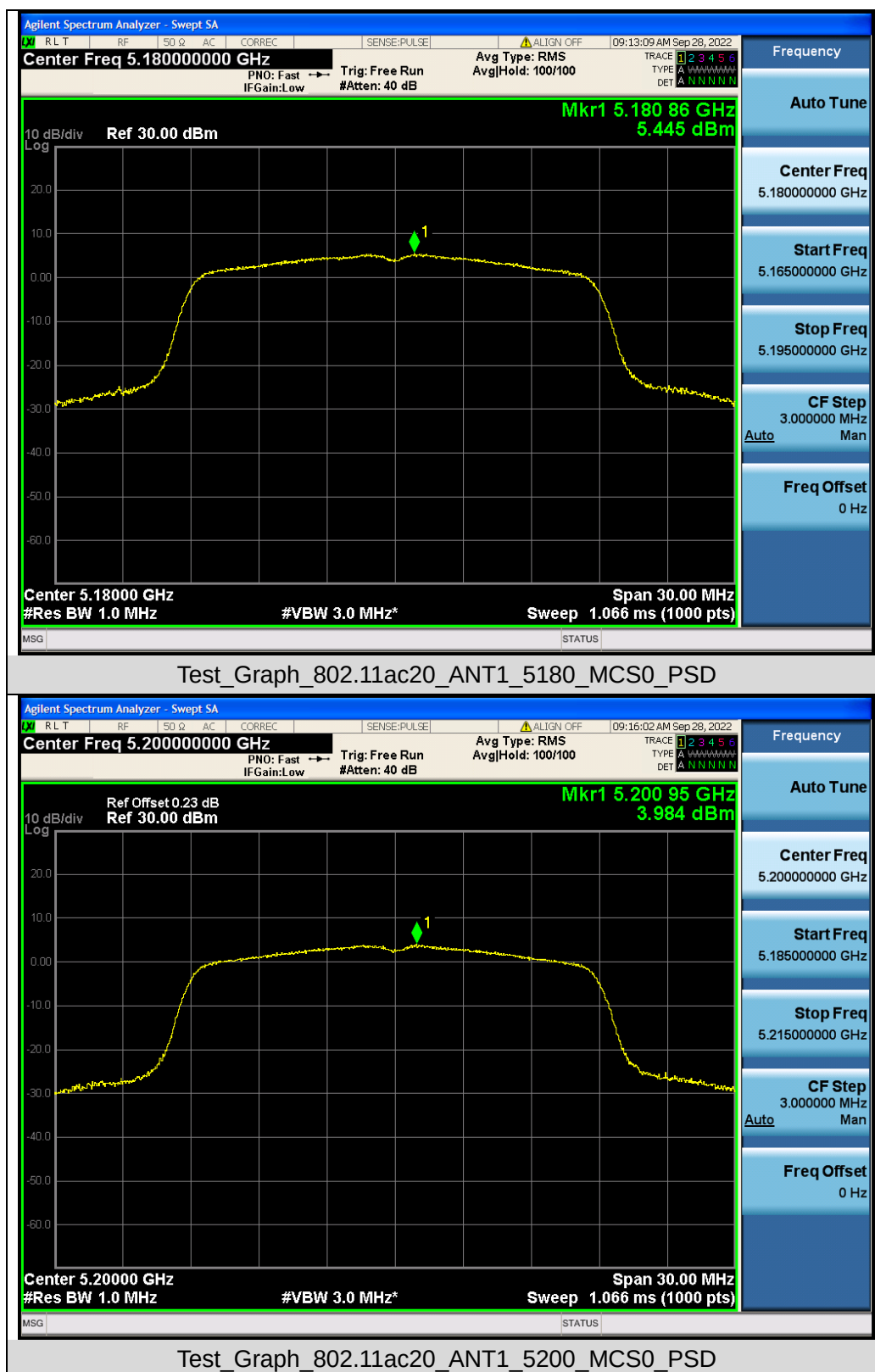
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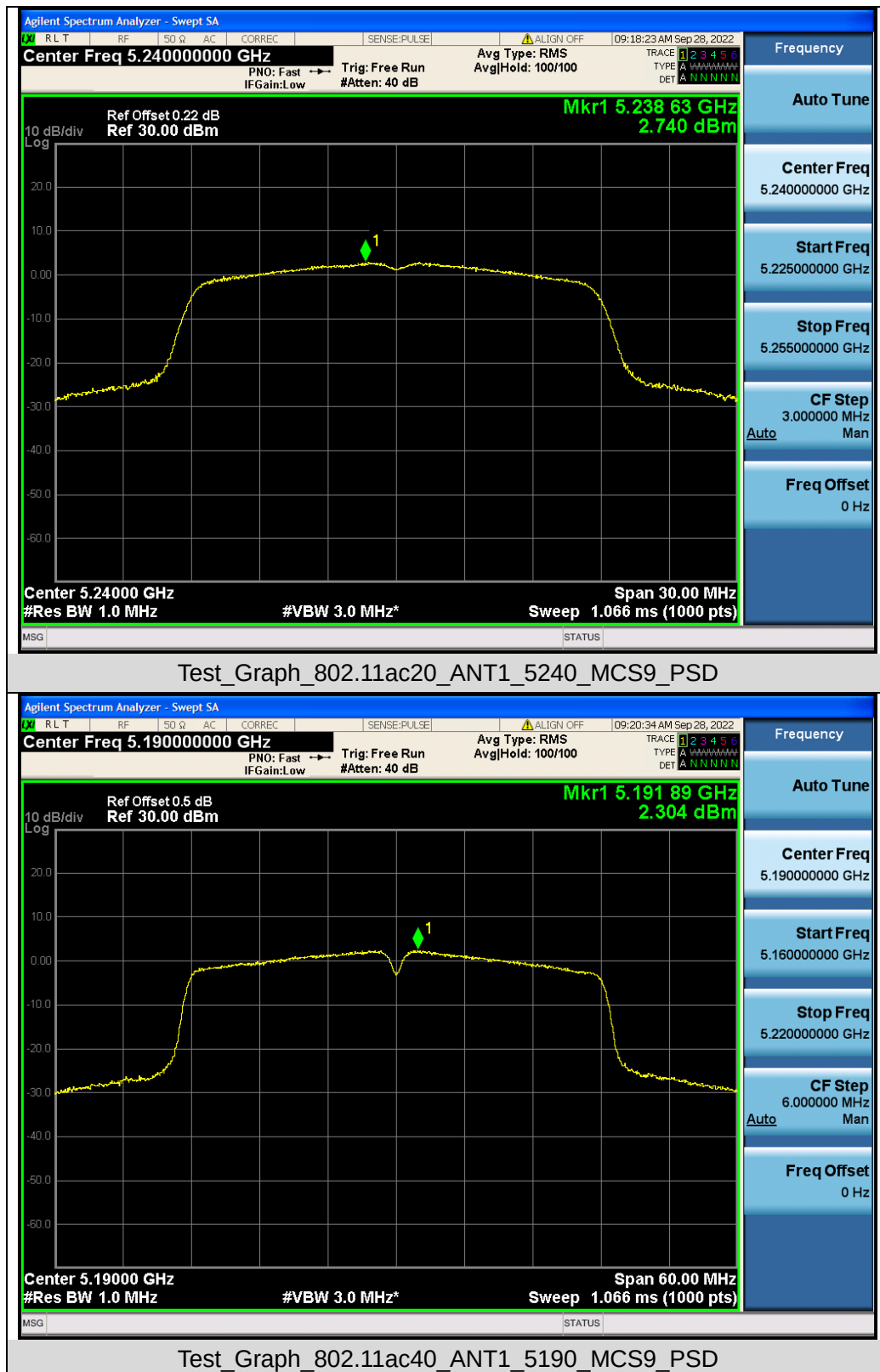


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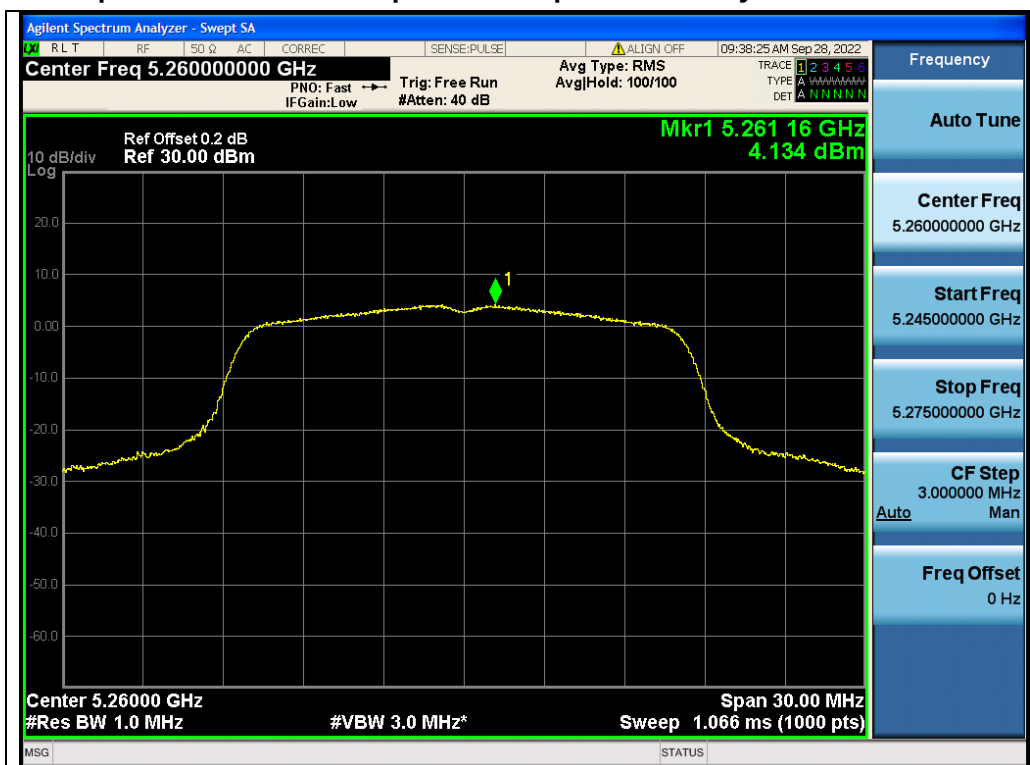


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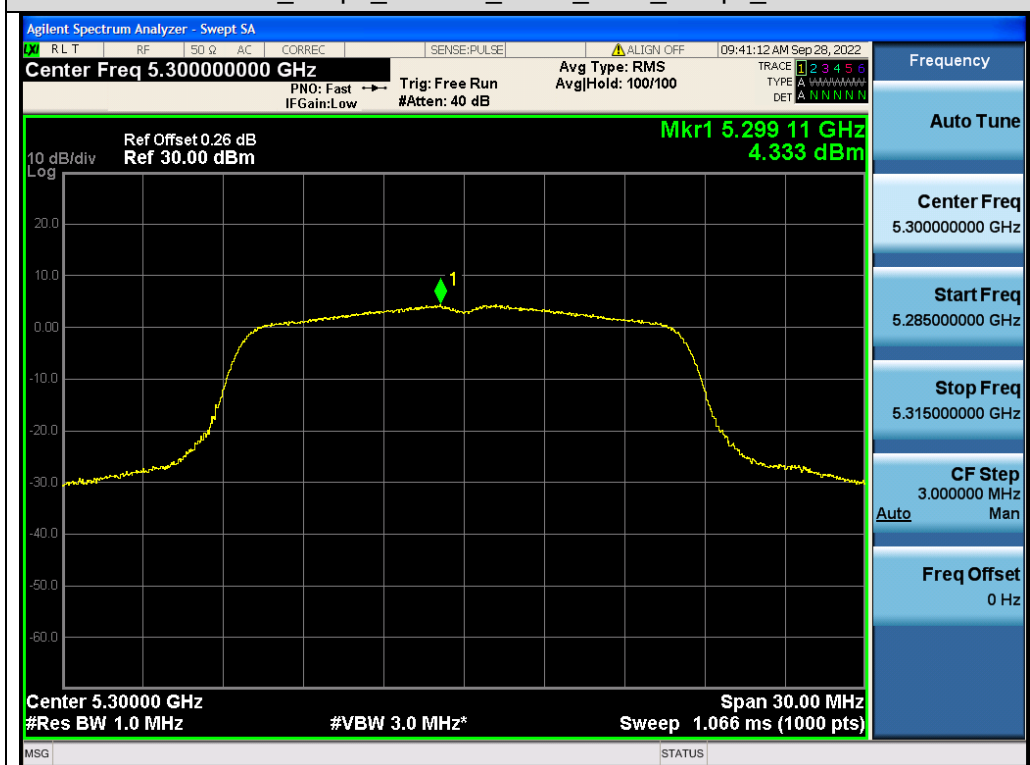


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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz



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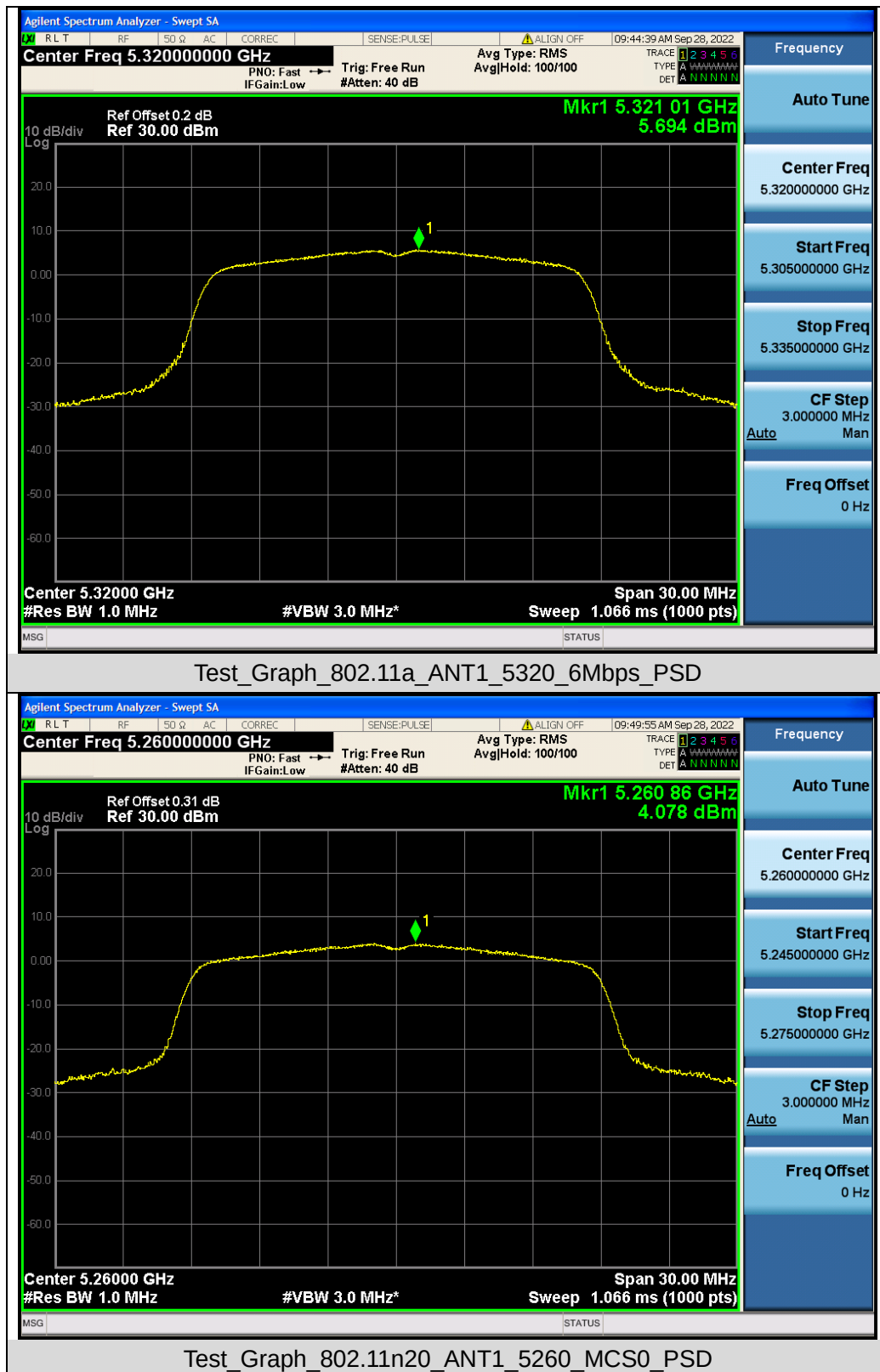
Test_Graph_802.11a_ANT1_5300_6Mbps_PSD

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