

FCC Test Report

Report No.: AGC14499230501FE06

FCC ID : 2APPZ-W610W
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Portable Wi-Fi Phone
BRAND NAME : **LINKVIL**
MODEL NAME : W610W
APPLICANT : Fanvil Technology Co., Ltd.
DATE OF ISSUE : Jun. 14, 2023
STANDARD(S) : FCC Part 15 Subpart E §15.407
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	/	Jun. 14, 2023	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Fanvil Technology Co., Ltd.
Address	10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China
Manufacturer	Fanvil Technology Co., Ltd.
Address	10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China
Factory	Fanvil Technology Co., Ltd.
Address	10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China
Product Designation	Portable Wi-Fi Phone
Brand Name	LINKVIL
Test Model	W610W
Date of receipt of test item	May 30. 2023
Date of Test	May 30. 2023 to Jun. 14, 2023
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

We hereby certify that:

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

Prepared By



Alan Duan
(Project Engineer)

Jun. 14, 2023

Reviewed By



Calvin Liu
(Reviewer)

Jun. 14, 2023

Approved By



Max Zhang
(Authorized Officer)

Jun. 14, 2023

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

Equipment Type	☐ Outdoor access points ☐ Indoor access points ☐ Fixed P2P access points ☒ Client devices
Operation Frequency	☒ U-NII 1:5150MHz~5250MHz ☒ U-NII 2A: 5250MHz~5350MHz ☒ U-NII 2C:5470MHz~5725MHz ☒ 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, 5260~5330MHz, 5500~5700MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz, 5510~5670MHz, 5755~5795MHz For 802.11ac-VHT80: 5210MHz, 5290MHz, 55300MHz, 5610MHz, 5775MHz
Output Power	IEEE 802.11a:9.71dBm; IEEE 802.11n-HT20:9.34dBm; IEEE 802.11n-HT40:9.29dBm; IEEE 802.11ac-VHT20:9.27dBm; IEEE 802.11ac-VHT40:9.25dBm; IEEE 802.11ac-VHT80:8.38dBm
Modulation	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps; 802.11n: up to 300Mbps; 802.11ac: up to 866.6Mbps;
Number of channels	7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 21 channels of U-NII-2C Band 8 channels of U-NII-3 Band
Hardware Version	V1.0
Software Version	Beta_1.0.4
Antenna Designation	Internal Antenna
Antenna Gain	1.7dBi
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	--	--

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For 5500~5720MHz:

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

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

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

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

3 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: 2APPZ-W610W** filing to comply with the FCC Part 15 requirements.

2.4. TEST METHODOLOGY

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 662911	662911 D01 Multiple Transmitter Output v02r01
5	KDB 789033	789033 D02 General U-NII Test Procedures New Rules v02r01

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

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 1.7dBi

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3. TEST ENVIRONMENT

3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range (°C)	15 - 35	-20 - 50
Relative humidity range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Power supply	DC 5.0V	--

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

3.4 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	$U_c = \pm 2.7 \%$

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3.5 LIST OF EQUIPMENTS USED

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. 03, 2023	Jun. 02, 2024
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	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Signal Analyzer	Aglient	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
Power sensor	Aglient	U2021XA	MY54110007	Feb. 18, 2023	Feb. 17, 2024
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	N/A	N/A
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	768	Oct. 31, 2021	Oct. 30, 2023
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2023	Apr. 22, 2024
Double-Ridged Waveguide Horn	ETS	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 05, 2023	Jan. 04, 2025
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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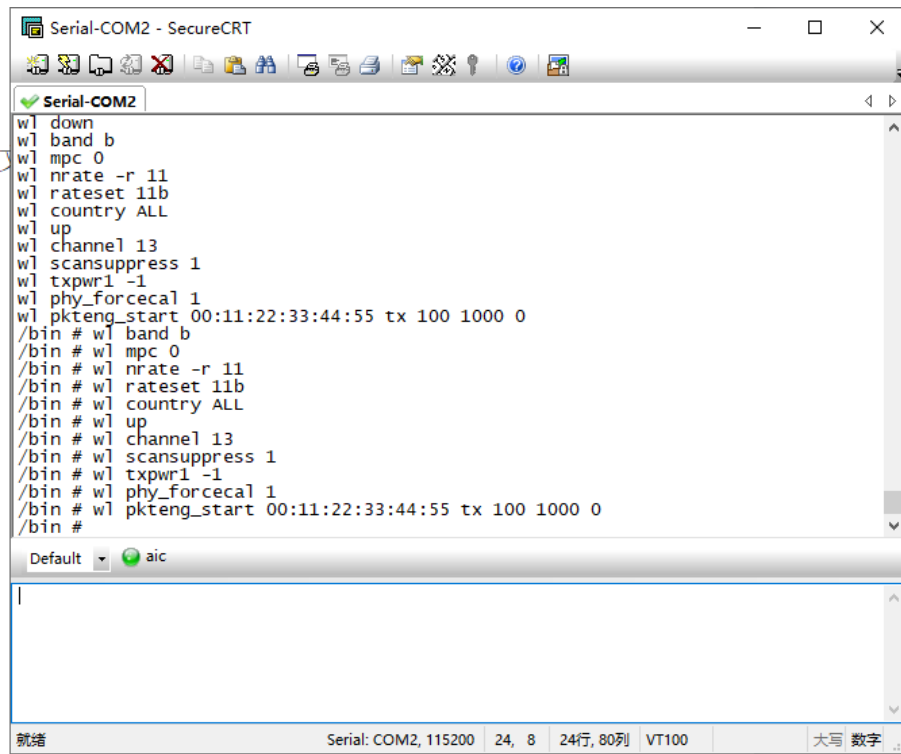
4. DESCRIPTION OF TEST MODES

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

Note:

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

Software Setting



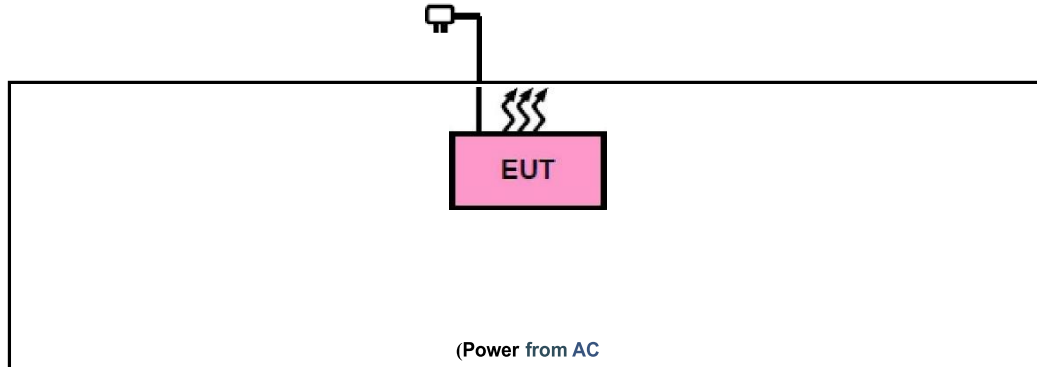
```

Serial-COM2 - SecureCRT
Serial-COM2
w/ down
w/ band b
w/ mpc 0
w/ nrate -r 11
w/ rateset 11b
w/ country ALL
w/ up
w/ channel 13
w/ scansuppress 1
w/ txpwr1 -1
w/ phy_forcecal 1
w/ pkteng_start 00:11:22:33:44:55 tx 100 1000 0
/bin # w/ band b
/bin # w/ mpc 0
/bin # w/ nrate -r 11
/bin # w/ rateset 11b
/bin # w/ country ALL
/bin # w/ up
/bin # w/ channel 13
/bin # w/ scansuppress 1
/bin # w/ txpwr1 -1
/bin # w/ phy_forcecal 1
/bin # w/ pkteng_start 00:11:22:33:44:55 tx 100 1000 0
/bin #
Default aic
就绪 Serial: COM2, 115200 24, 8 24行, 80列 VT100 大写 数字
  
```

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Portable Wi-Fi Phone	W610W	2APPZ-W610W	EUT
2	Earphone	N/A	0.6m unshielded	AE
3	Adapter	AS1201A-0502000USL	Input: 100-240V, 50/60Hz, 0.35A Output: 2000mA	AE

5.3. SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Result
1	§15.203	Antenna Equipment	Pass
2	§15.407(a/1/2/3)	RF Output Power	Pass
3	§15.407(e)	6dB Bandwidth Measurement	Pass
4	§2.1049	26dB bandwidth Measurement	Pass
5	§15.407(a/1/2/3)	Power Spectral Density	Pass
6	§15.407(b)(1/2/3/4)	Conducted Spurious Emission	Pass
7	§15.209, §15.407(b)(1/2/3/4)	Radiated Emission & Band Edge	Pass
8	§15.207	AC Power Line Conducted Emission	Pass

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6. RF OUTPUT POWER MEASUREMENT

6.1 MEASUREMENT LIMITS

Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p < 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	☐	Fixed point-to-point Access Point	1 Watt (30 dBm)
	☐	Indoor Access Point	1 Watt (30 dBm)
	☒	Client devices	250mW (23.98 dBm)
U-NII-2A	/		250mW (23.98 dBm) or 11 dBm+10 log B*
U-NII-2C	/		250mW (23.98 dBm) or 11 dBm+10 log B*
U-NII-3	/		1 Watt (30 dBm)

Note: Where B is the 26dB emission bandwidth in MHz.

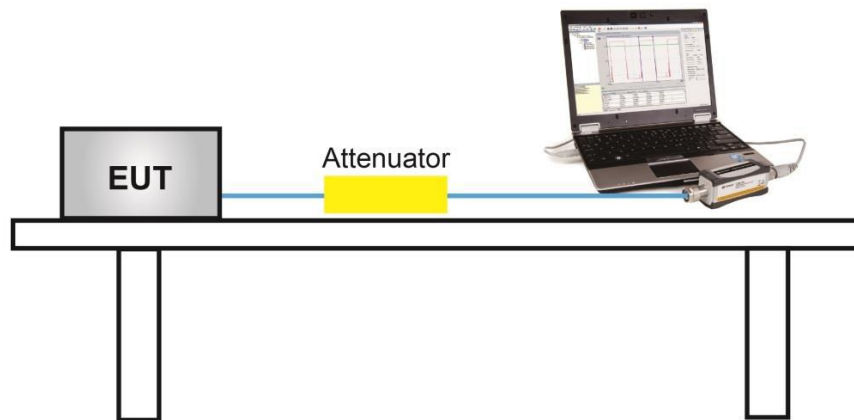
6.2 MEASUREMENT PROCEDURE

☒ Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:

1. The testing follows the ANSI C63.10 Section 12.3.3.1
2. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
3. The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
4. At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
5. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
6. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
7. Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
8. Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle {e.g., $[10 \log (1 / 0.25)]$, if the duty cycle is 25%}.
9. Record the test results in the report.

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6.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



6.4 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	9.71	23.98	Pass
	5200	9.57	23.98	Pass
	5240	9.49	23.98	Pass
802.11n20	5180	9.34	23.98	Pass
	5200	9.15	23.98	Pass
	5240	9.07	23.98	Pass
802.11n40	5190	9.29	23.98	Pass
	5230	9.05	23.98	Pass
802.11ac20	5180	9.24	23.98	Pass
	5200	9.03	23.98	Pass
	5240	8.98	23.98	Pass
802.11ac40	5190	9.25	23.98	Pass
	5230	9.23	23.98	Pass
802.11ac80	5210	8.23	23.98	Pass

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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	9.31	23.98	Pass
	5300	9.36	23.98	Pass
	5320	9.36	23.98	Pass
802.11n20	5260	9.16	23.98	Pass
	5300	9.15	23.98	Pass
	5320	9.14	23.98	Pass
802.11n40	5270	8.39	23.98	Pass
	5310	8.54	23.98	Pass
802.11ac20	5260	9.06	23.98	Pass
	5300	9.05	23.98	Pass
	5320	9.27	23.98	Pass
802.11ac40	5270	8.15	23.98	Pass
	5310	8.26	23.98	Pass
802.11ac80	5290	8.37	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	9.36	23.98	Pass
	5600	6.07	23.98	Pass
	5700	5.37	23.98	Pass
802.11n20	5500	9.01	23.98	Pass
	5600	5.75	23.98	Pass
	5700	4.89	23.98	Pass
802.11n40	5510	8.57	23.98	Pass
	5590	6.16	23.98	Pass
	5670	5.03	23.98	Pass
802.11ac20	5500	8.88	23.98	Pass
	5600	5.82	23.98	Pass
	5700	5.03	23.98	Pass
802.11ac40	5510	8.58	23.98	Pass
	5590	6.21	23.98	Pass
	5670	5.04	23.98	Pass
802.11ac80	5530	8.38	23.98	Pass
	5610	5.59	23.98	Pass

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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	5.72	30	Pass
	5785	6.91	30	Pass
	5825	8.66	30	Pass
802.11n20	5745	5.27	30	Pass
	5785	6.49	30	Pass
	5825	8.34	30	Pass
802.11n40	5755	5.72	30	Pass
	5795	7.20	30	Pass
802.11ac20	5745	5.33	30	Pass
	5785	6.60	30	Pass
	5825	8.35	30	Pass
802.11ac40	5755	5.80	30	Pass
	5795	7.26	30	Pass
802.11ac80	5775	6.81	30	Pass

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7. 6DB&26DB BANDWIDTH MEASUREMENT

7.1 MEASUREMENT LIMITS

The minimum 6dB bandwidth shall be at least 500 kHz.

7.2 MEASUREMENT PROCEDURE

7.2.1 -6dB bandwidth (DTS bandwidth) Test setting:

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.

7.2.2 99% occupied bandwidth test setting:

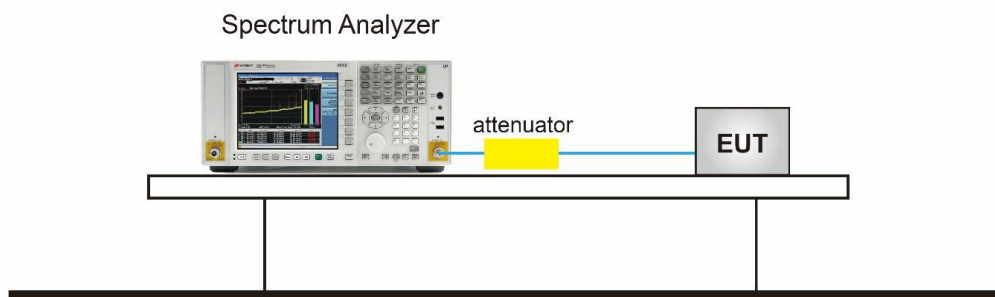
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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.

7.2.3 -26dB Bandwidth test setting:

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.

7.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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7.4 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	16.752	26.86	N/A	Pass
	5200	16.700	27.97	N/A	Pass
	5240	16.746	25.60	N/A	Pass
802.11n20	5180	17.794	25.40	N/A	Pass
	5200	17.841	28.78	N/A	Pass
	5240	17.792	27.04	N/A	Pass
802.11n40	5190	36.227	52.21	N/A	Pass
	5230	36.260	51.99	N/A	Pass
802.11ac20	5180	17.830	26.55	N/A	Pass
	5200	17.799	26.57	N/A	Pass
	5240	17.788	26.67	N/A	Pass
802.11ac40	5190	36.219	50.33	N/A	Pass
	5230	36.212	55.88	N/A	Pass
802.11ac80	5210	75.473	88.58	N/A	Pass

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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	16.750	26.45	N/A	Pass
	5300	16.890	26.85	N/A	Pass
	5320	16.827	26.70	N/A	Pass
802.11n20	5260	17.871	27.54	N/A	Pass
	5300	17.879	27.56	N/A	Pass
	5320	17.881	28.33	N/A	Pass
802.11n40	5270	36.181	52.91	N/A	Pass
	5310	36.181	51.06	N/A	Pass
802.11ac20	5260	17.856	25.16	N/A	Pass
	5300	17.850	26.35	N/A	Pass
	5320	17.947	28.14	N/A	Pass
802.11ac40	5270	36.150	45.04	N/A	Pass
	5310	36.174	48.84	N/A	Pass
802.11ac80	5290	75.589	98.04	N/A	Pass

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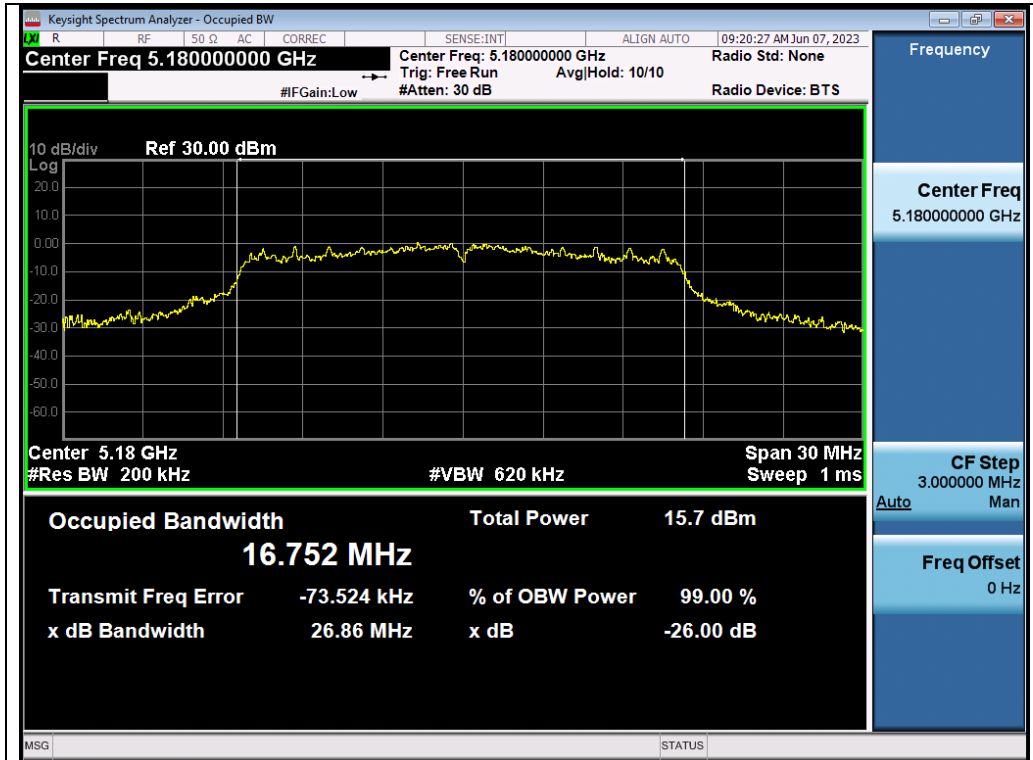
Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5500	16.562	21.11	N/A	Pass
	5600	16.669	21.73	N/A	Pass
	5700	16.815	24.94	N/A	Pass
802.11n20	5500	17.723	21.68	N/A	Pass
	5600	17.770	25.42	N/A	Pass
	5700	17.825	24.55	N/A	Pass
802.11n40	5510	36.108	41.64	N/A	Pass
	5590	36.125	46.76	N/A	Pass
	5670	36.161	49.67	N/A	Pass
802.11ac20	5500	17.710	21.70	N/A	Pass
	5600	17.756	23.97	N/A	Pass
	5700	17.831	25.02	N/A	Pass
802.11ac40	5510	36.098	40.11	N/A	Pass
	5590	36.201	49.20	N/A	Pass
	5670	36.176	48.38	N/A	Pass
802.11ac80	5530	75.521	88.63	N/A	Pass
	5610	75.664	99.67	N/A	Pass

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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	16.646	15.95	0.5	Pass
	5785	16.646	15.73	0.5	Pass
	5825	16.632	15.72	0.5	Pass
802.11n20	5745	17.729	15.96	0.5	Pass
	5785	17.760	16.10	0.5	Pass
	5825	17.778	15.72	0.5	Pass
802.11n40	5755	36.534	35.72	0.5	Pass
	5795	36.543	35.74	0.5	Pass
802.11ac20	5745	17.746	16.10	0.5	Pass
	5785	17.740	15.70	0.5	Pass
	5825	17.780	15.36	0.5	Pass
802.11ac40	5755	36.538	35.74	0.5	Pass
	5795	36.531	35.75	0.5	Pass
802.11ac80	5775	82.538	69.01	0.5	Pass

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

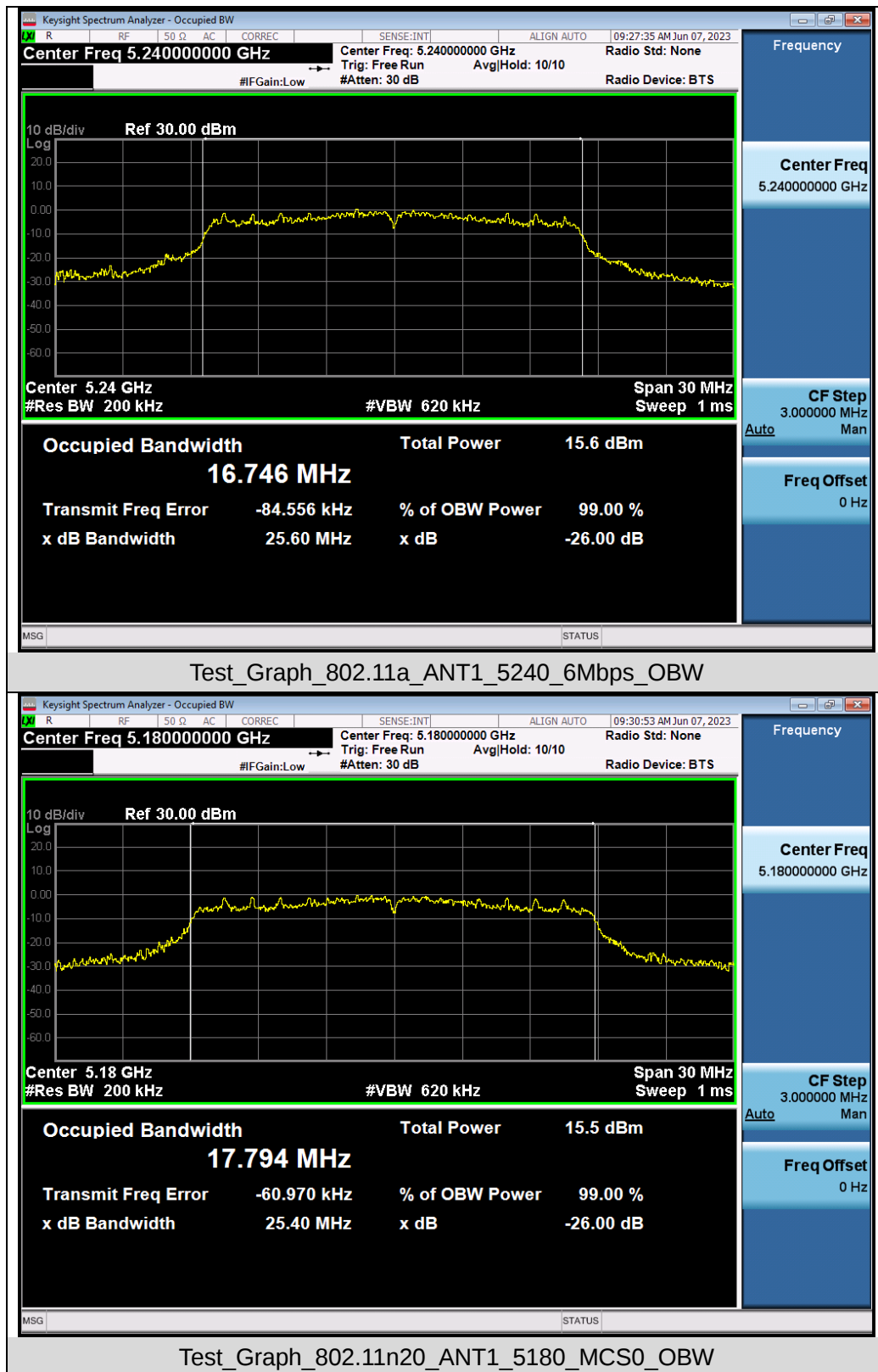


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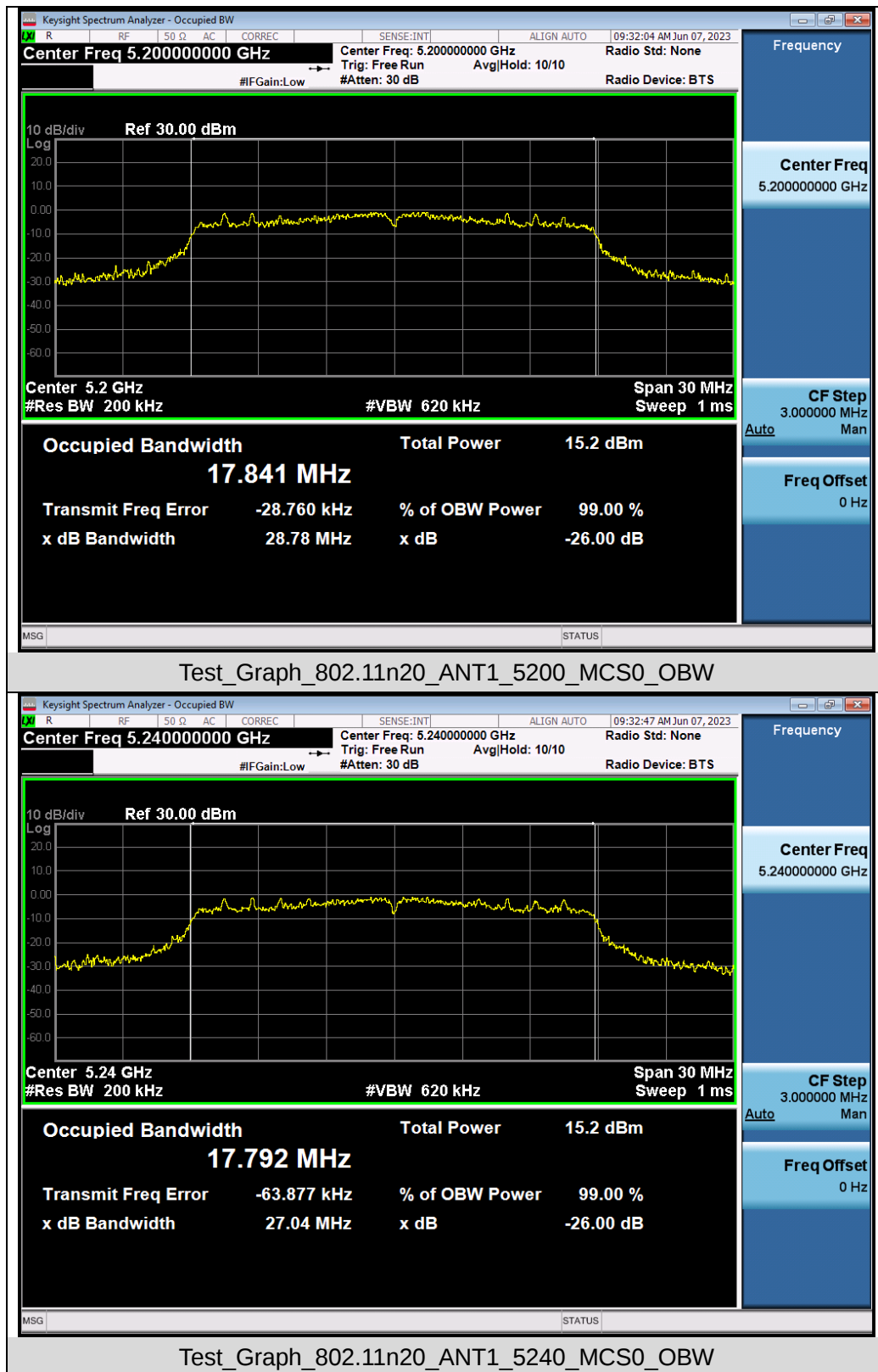


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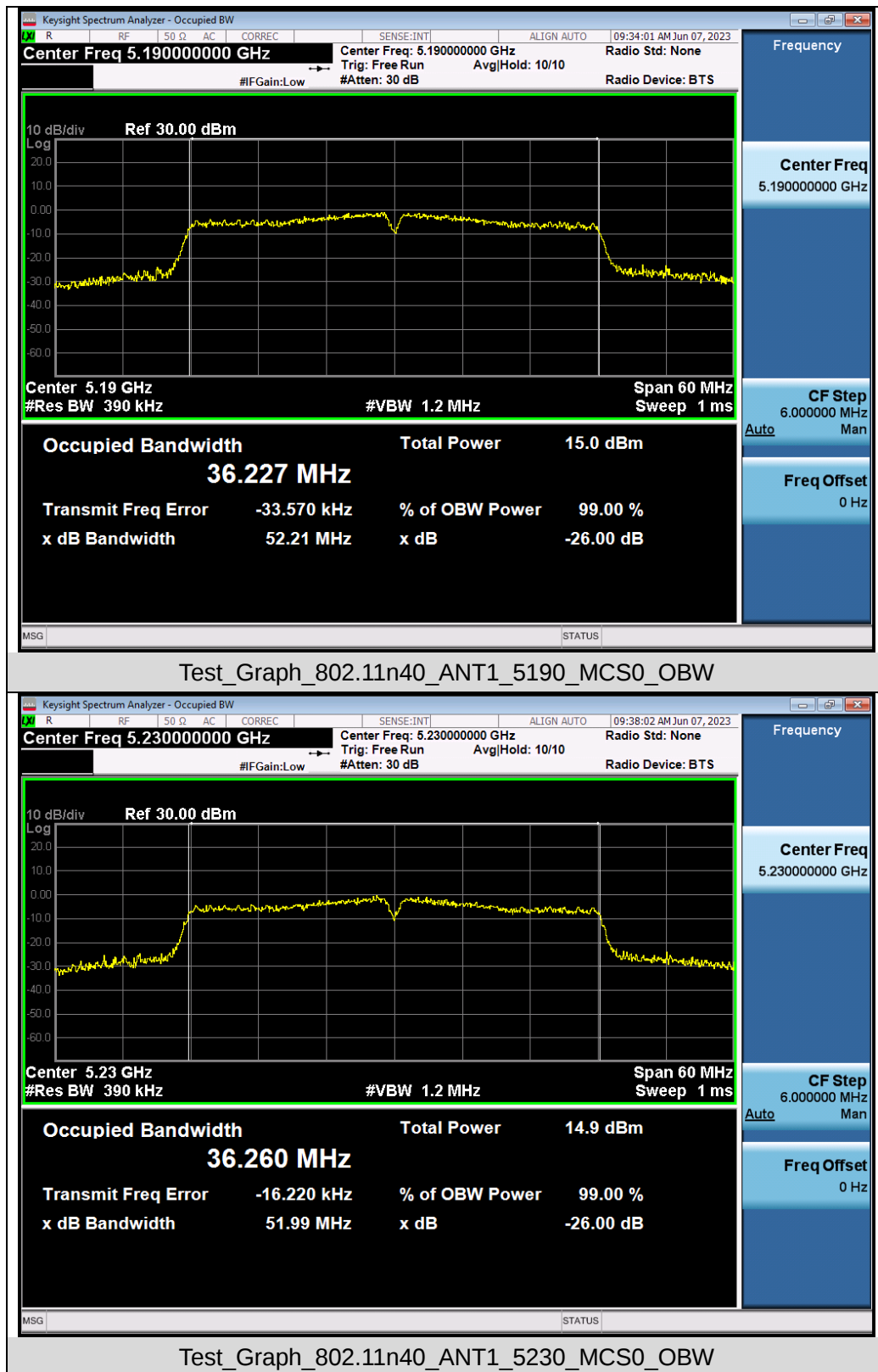
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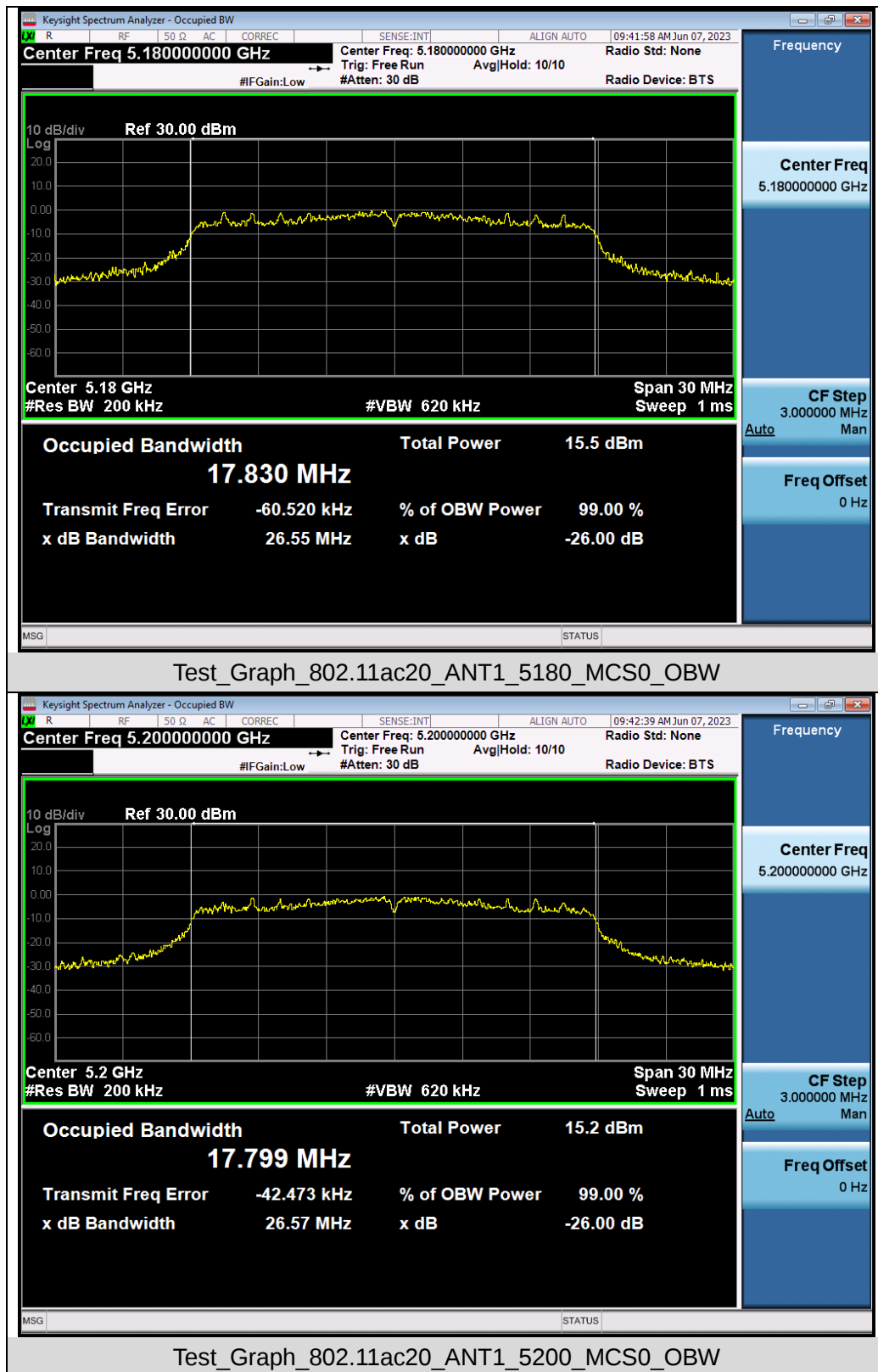
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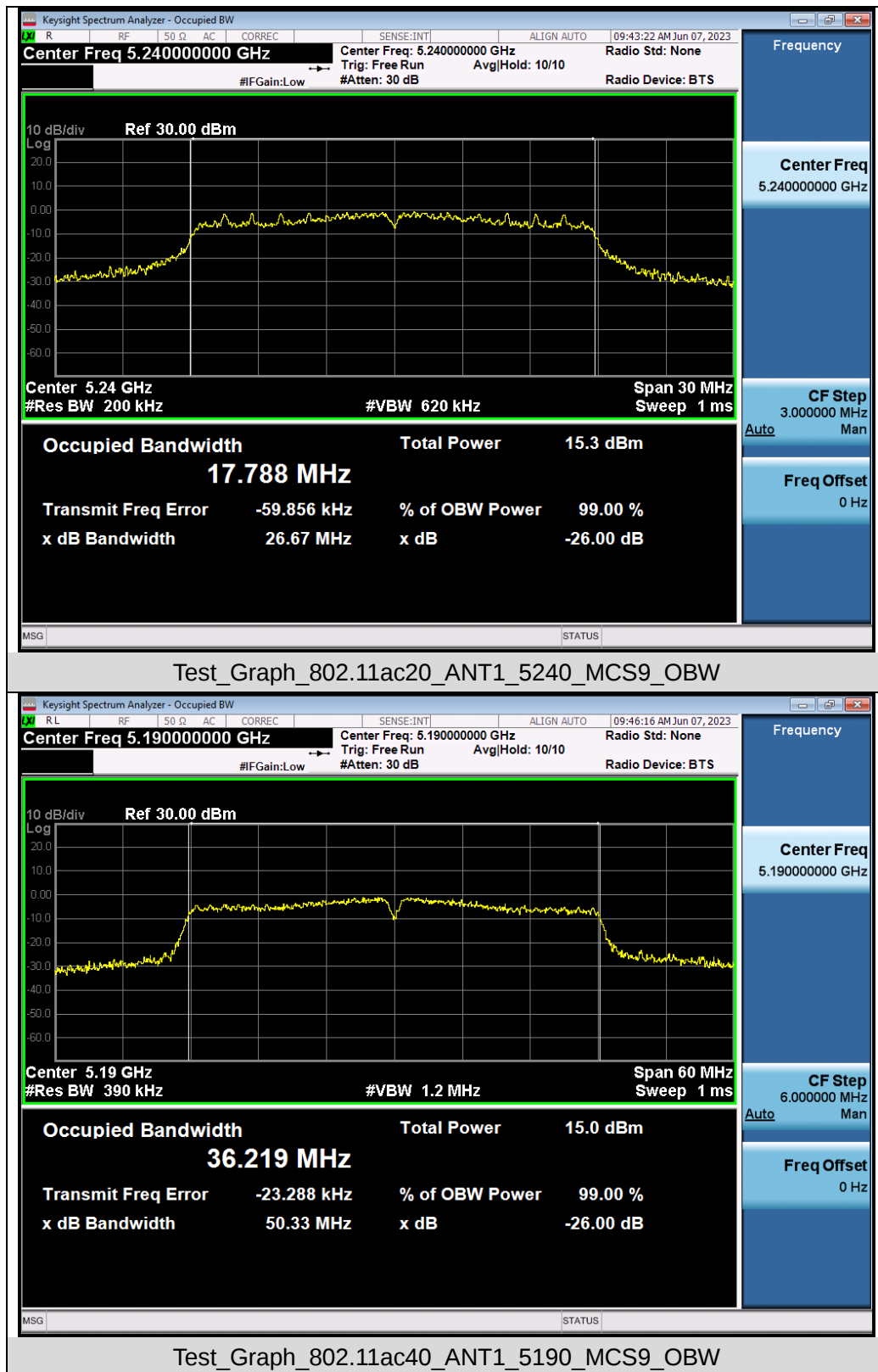
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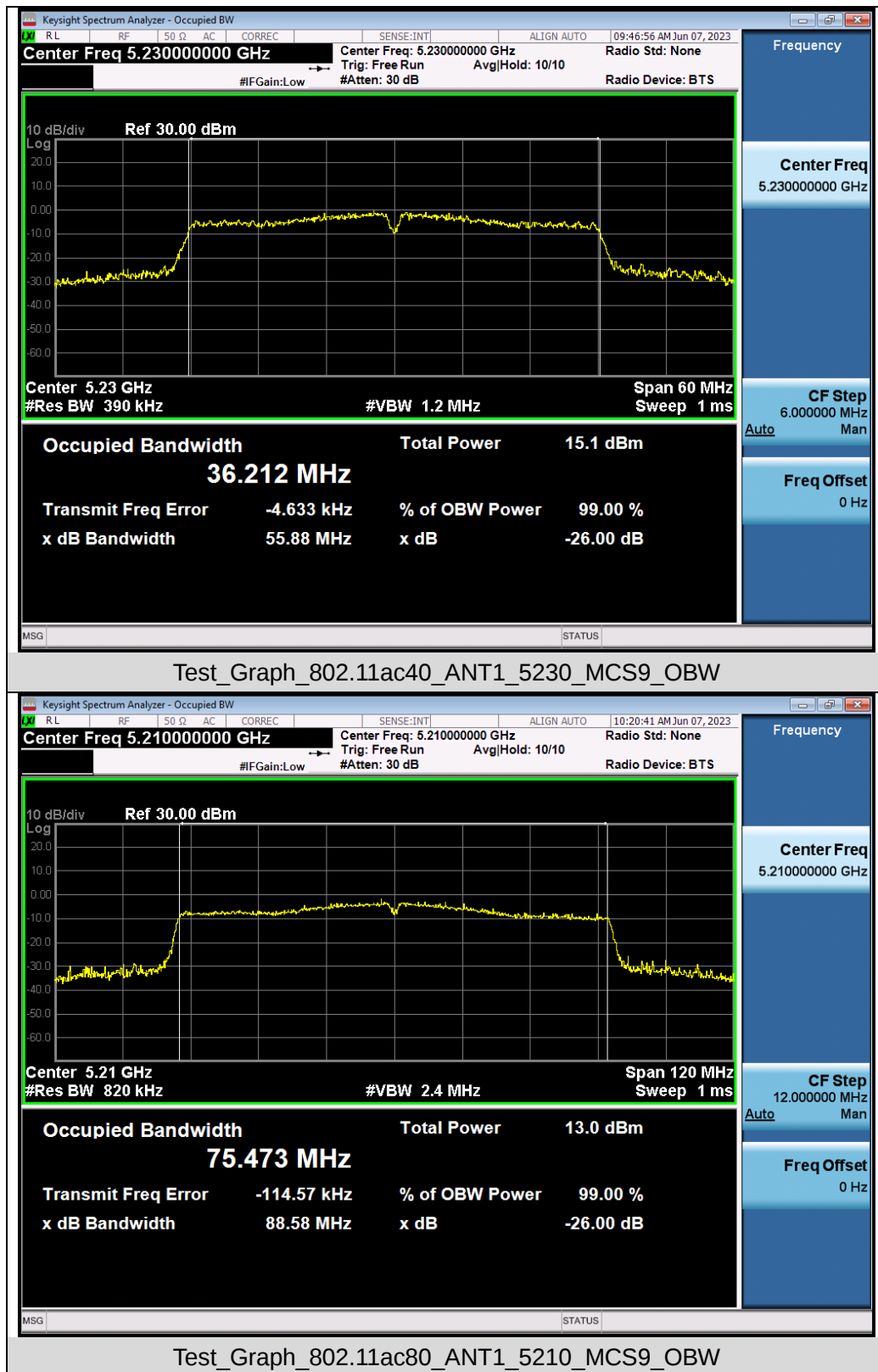
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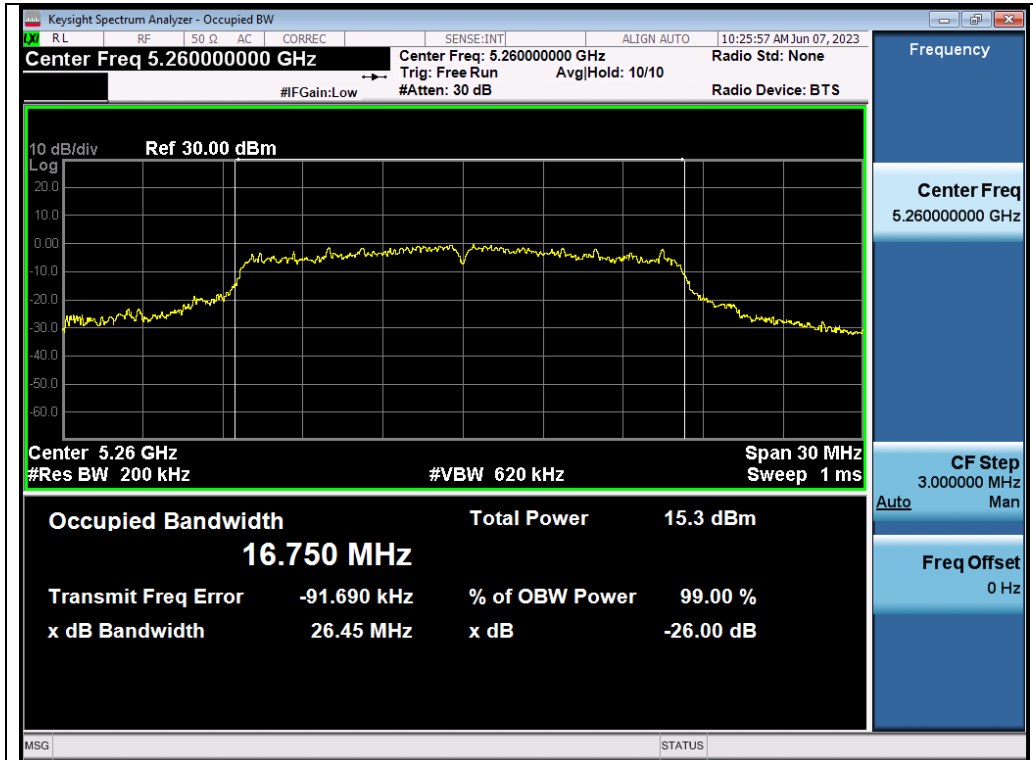


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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz

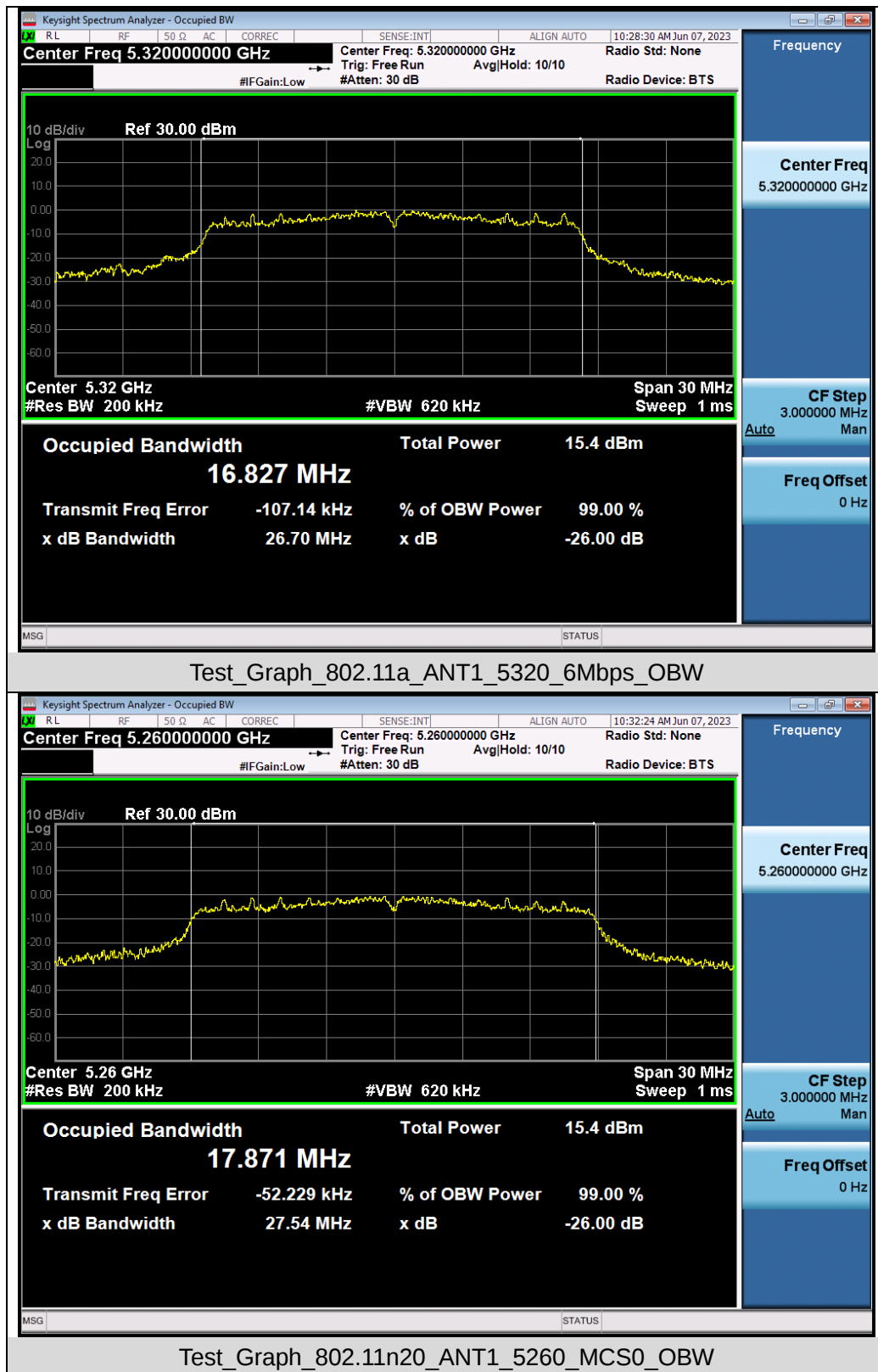


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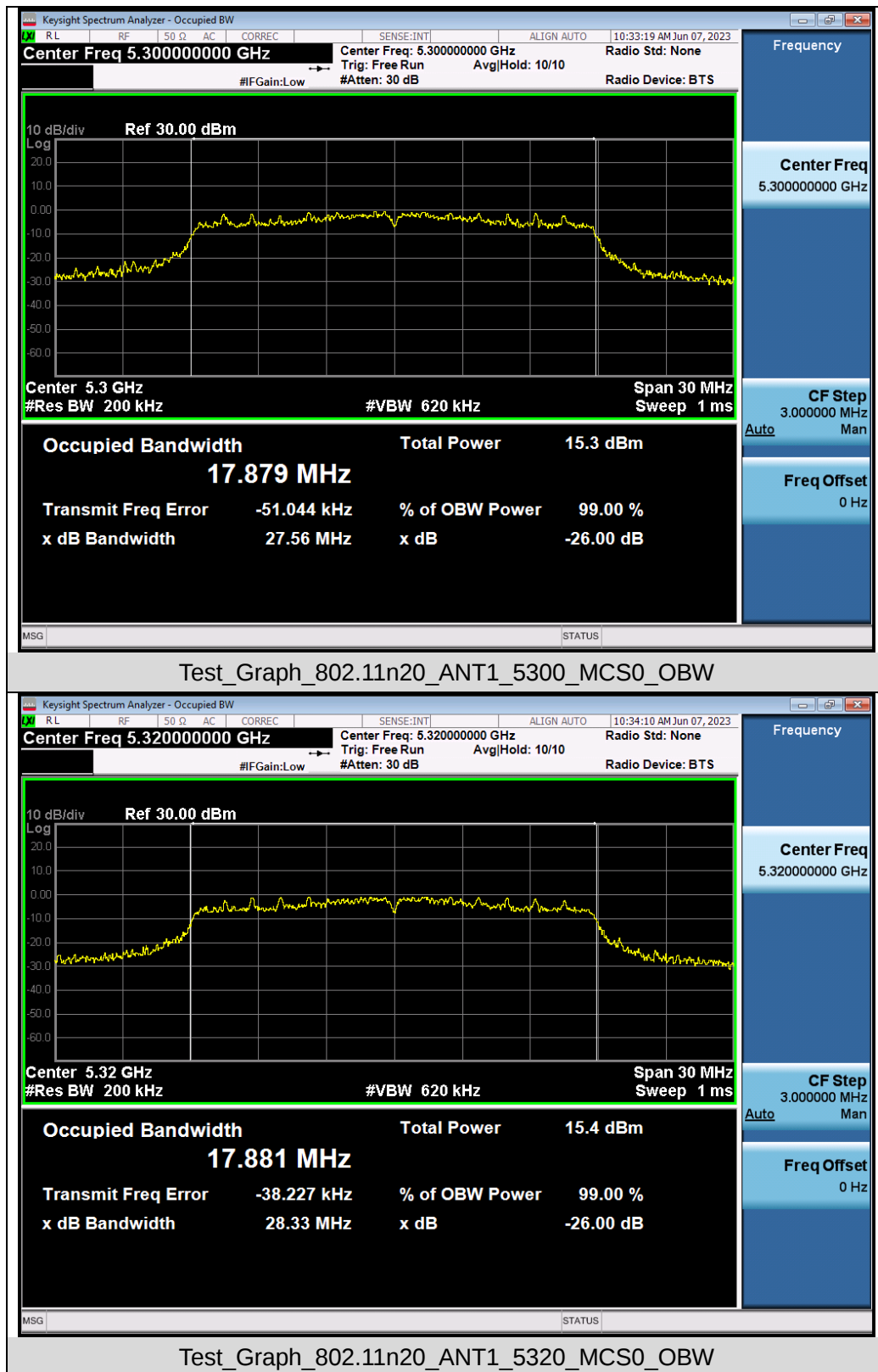


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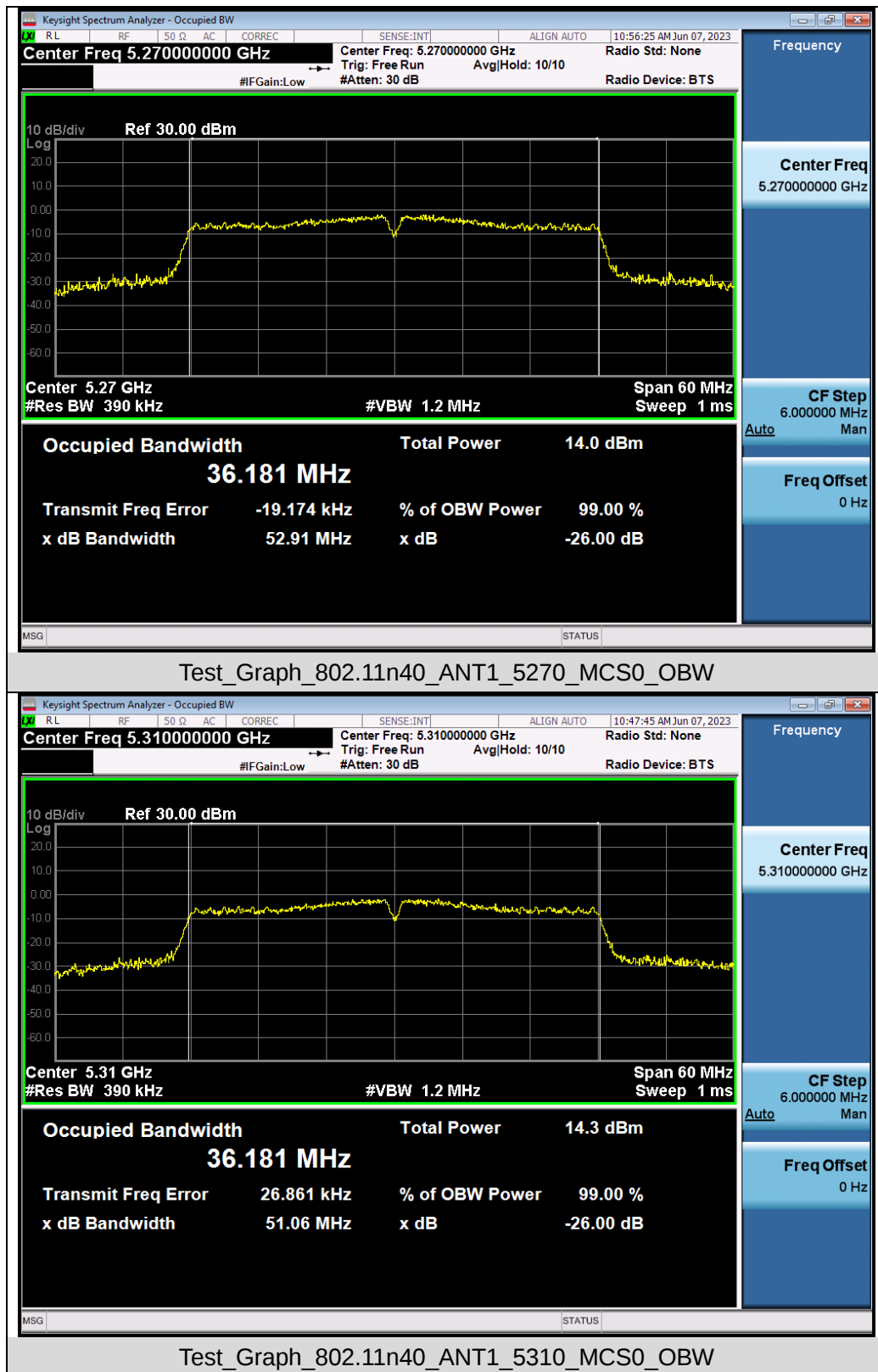


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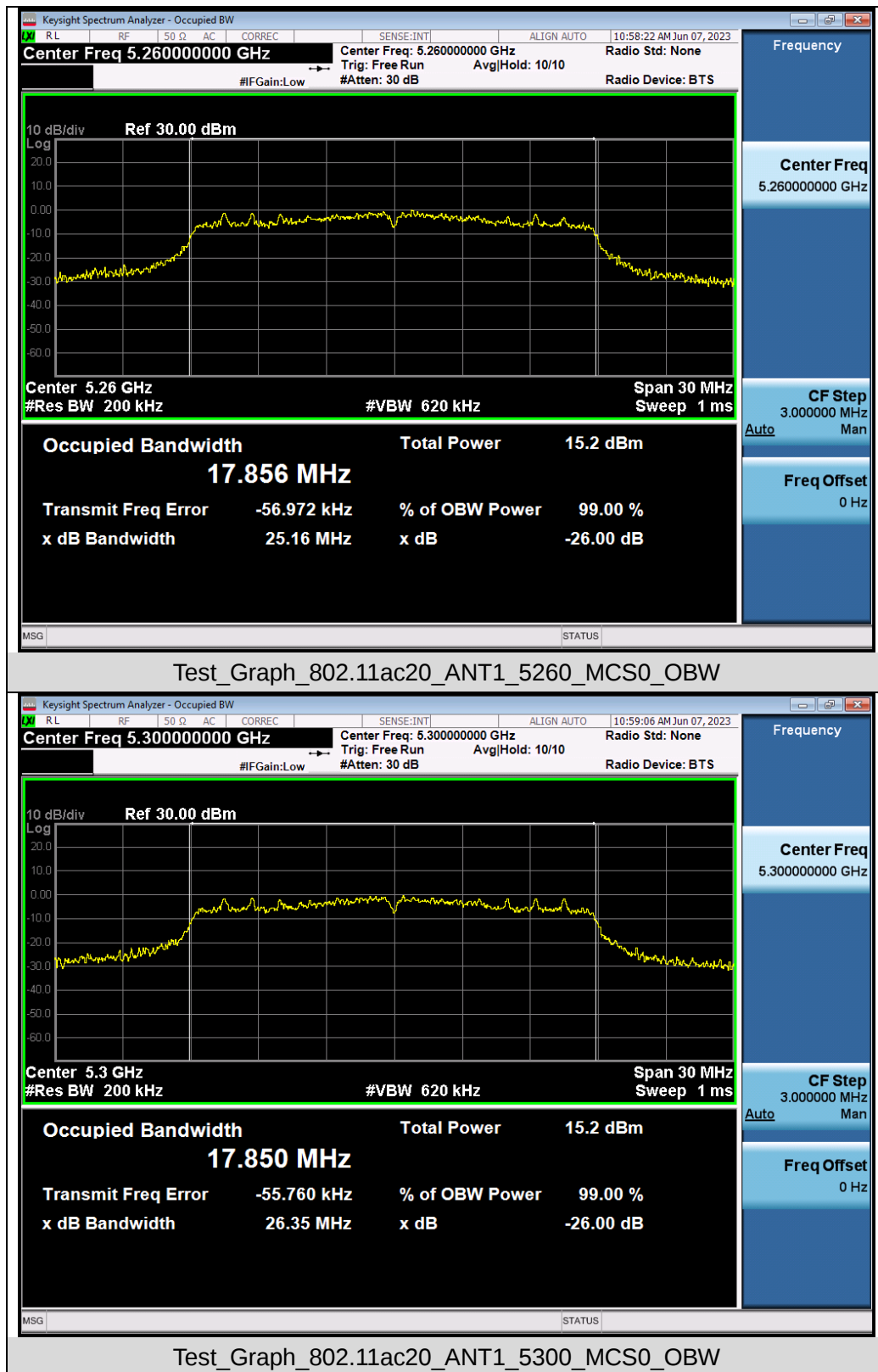


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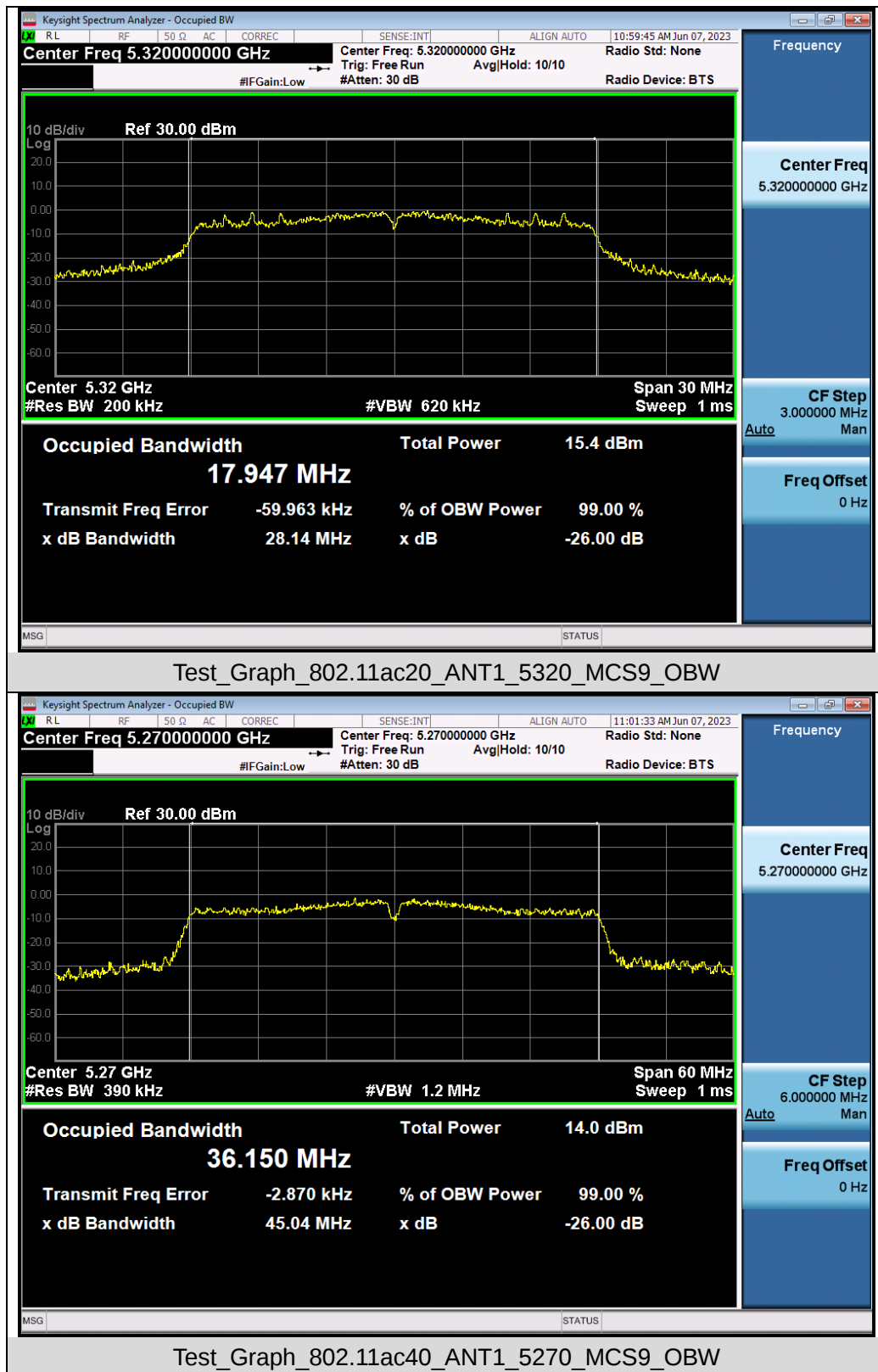
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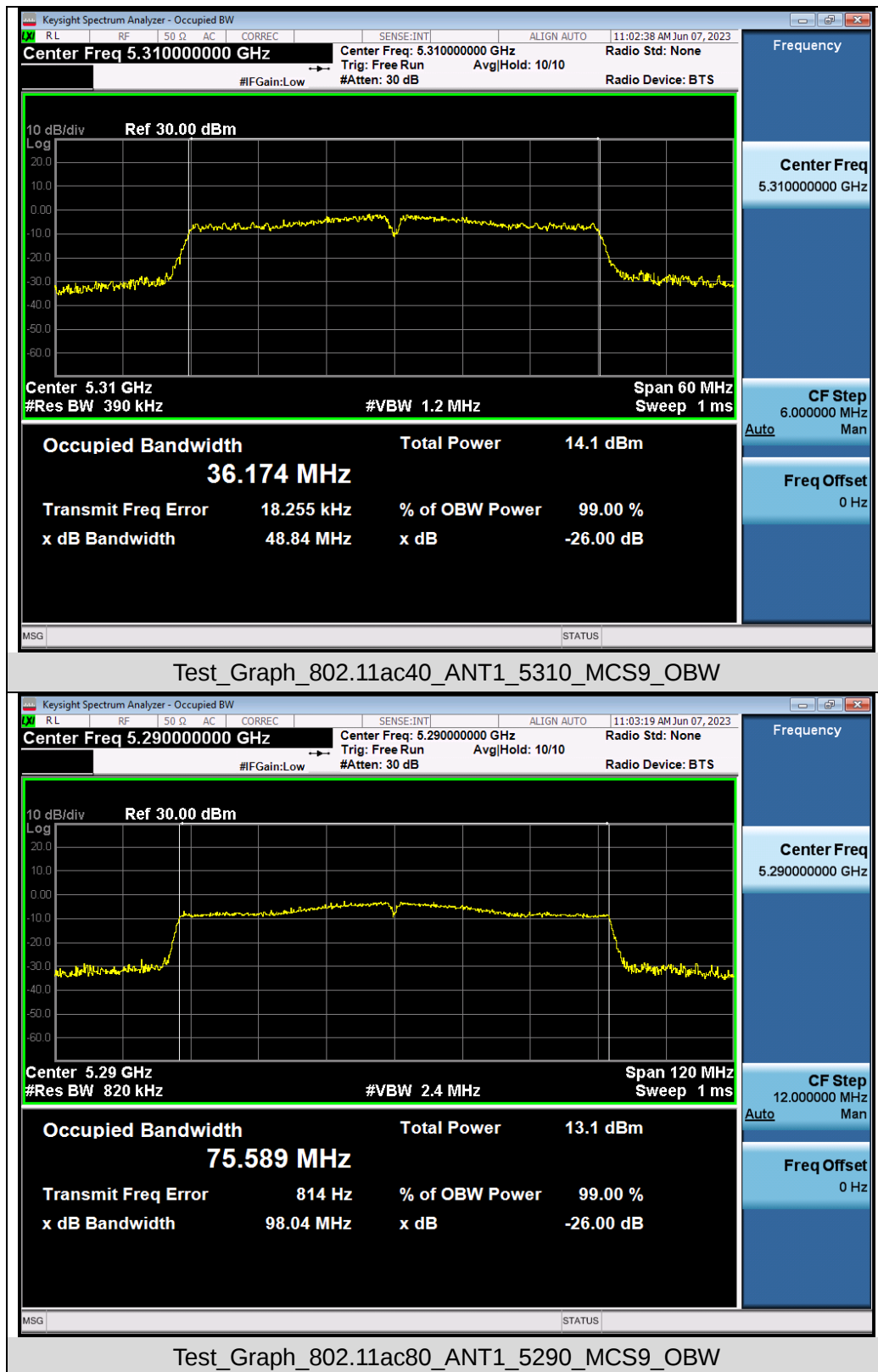
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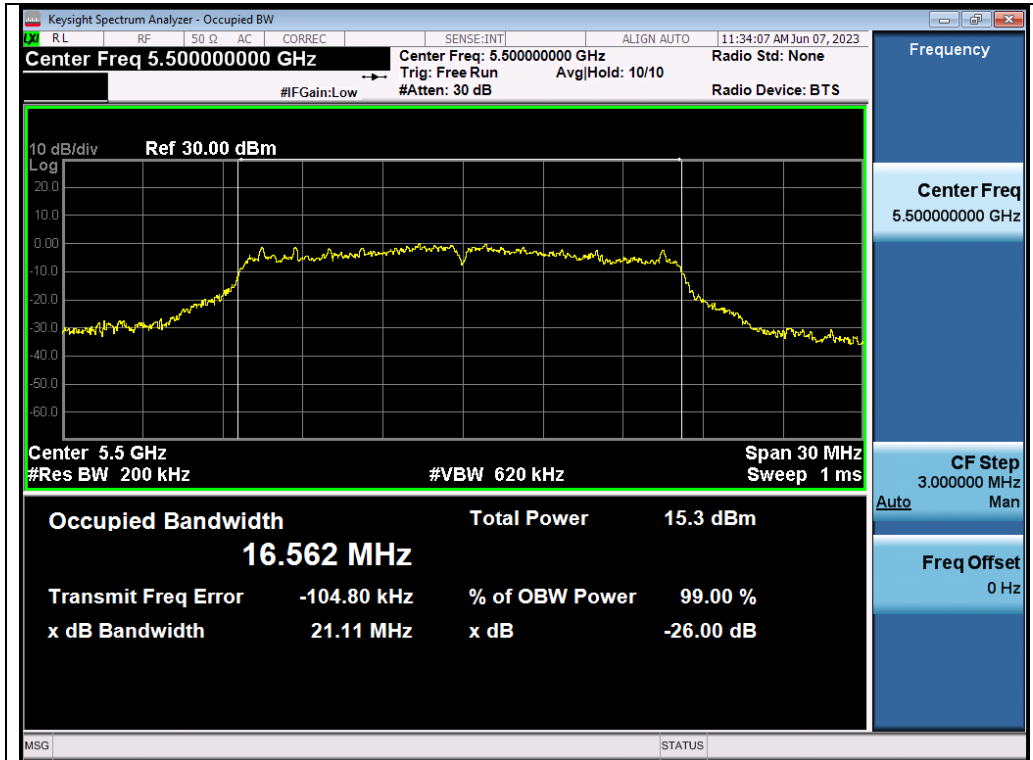


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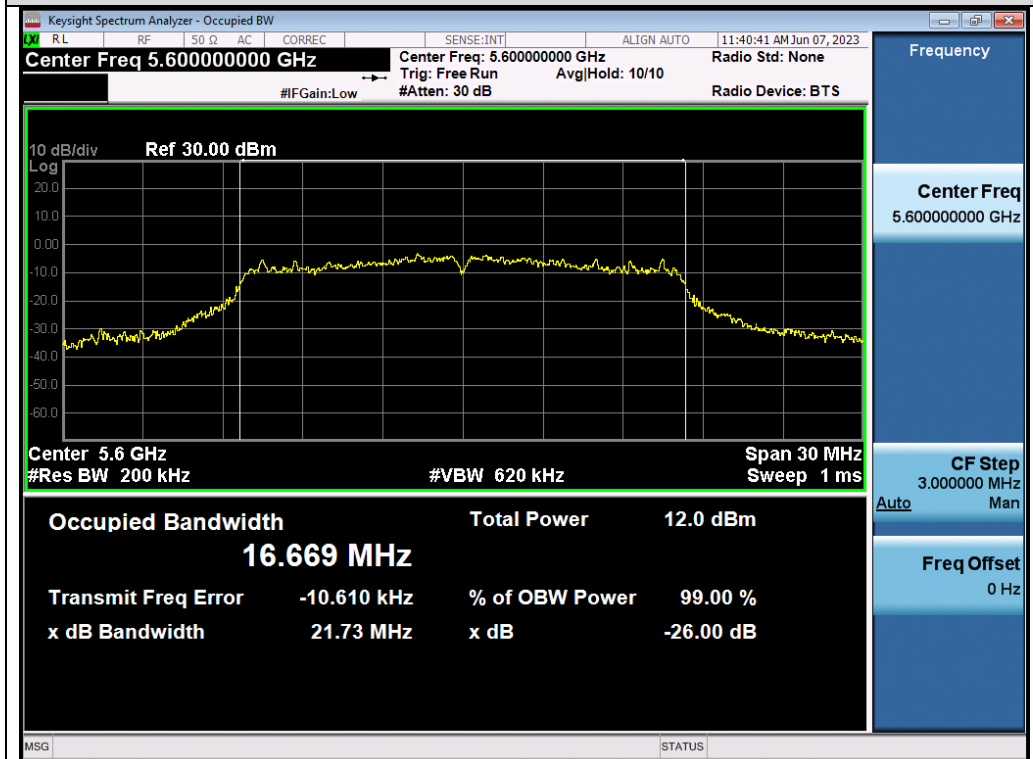


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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz

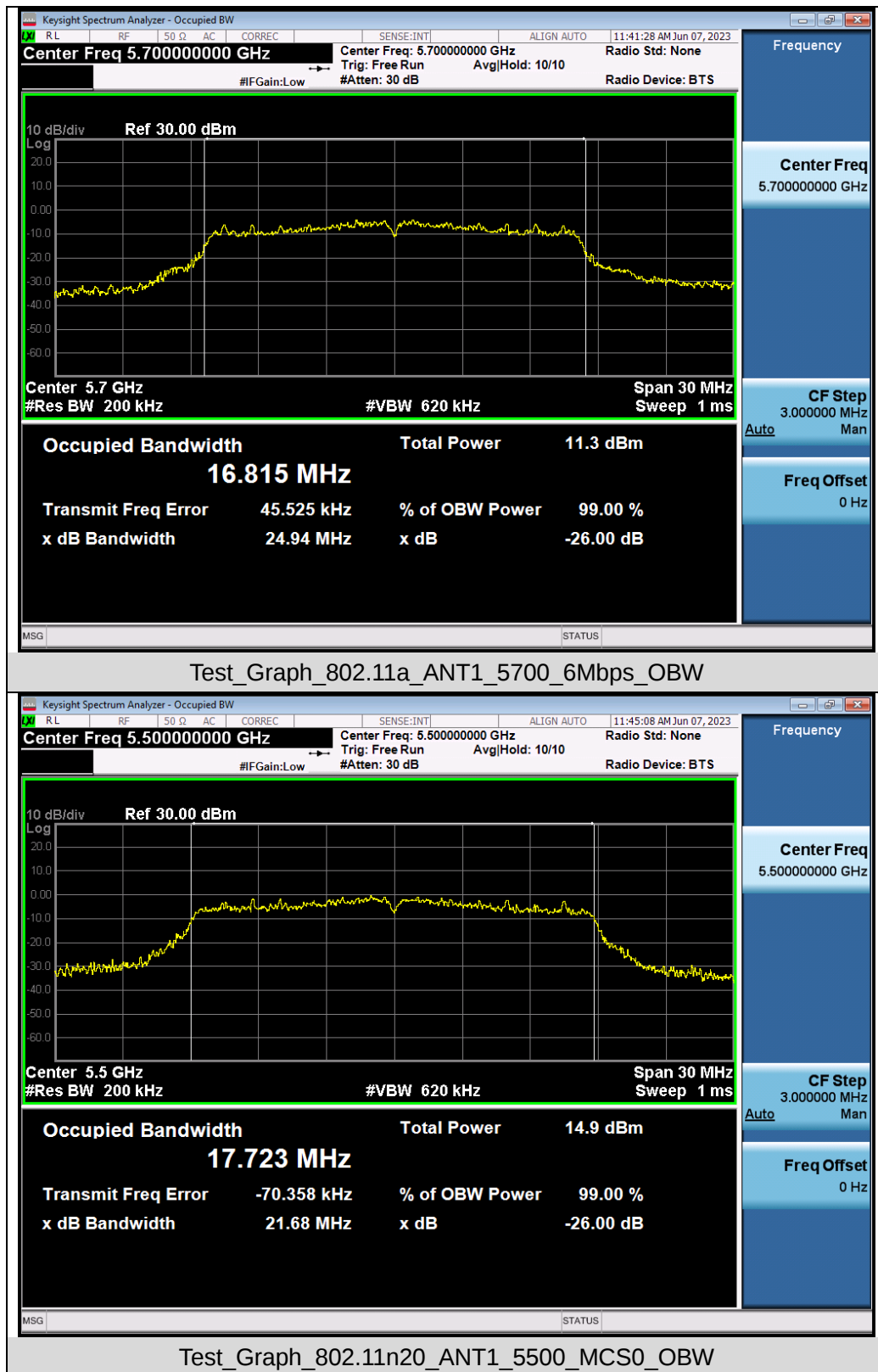


Test_Graph_802.11a_ANT1_5500_6Mbps_OBW

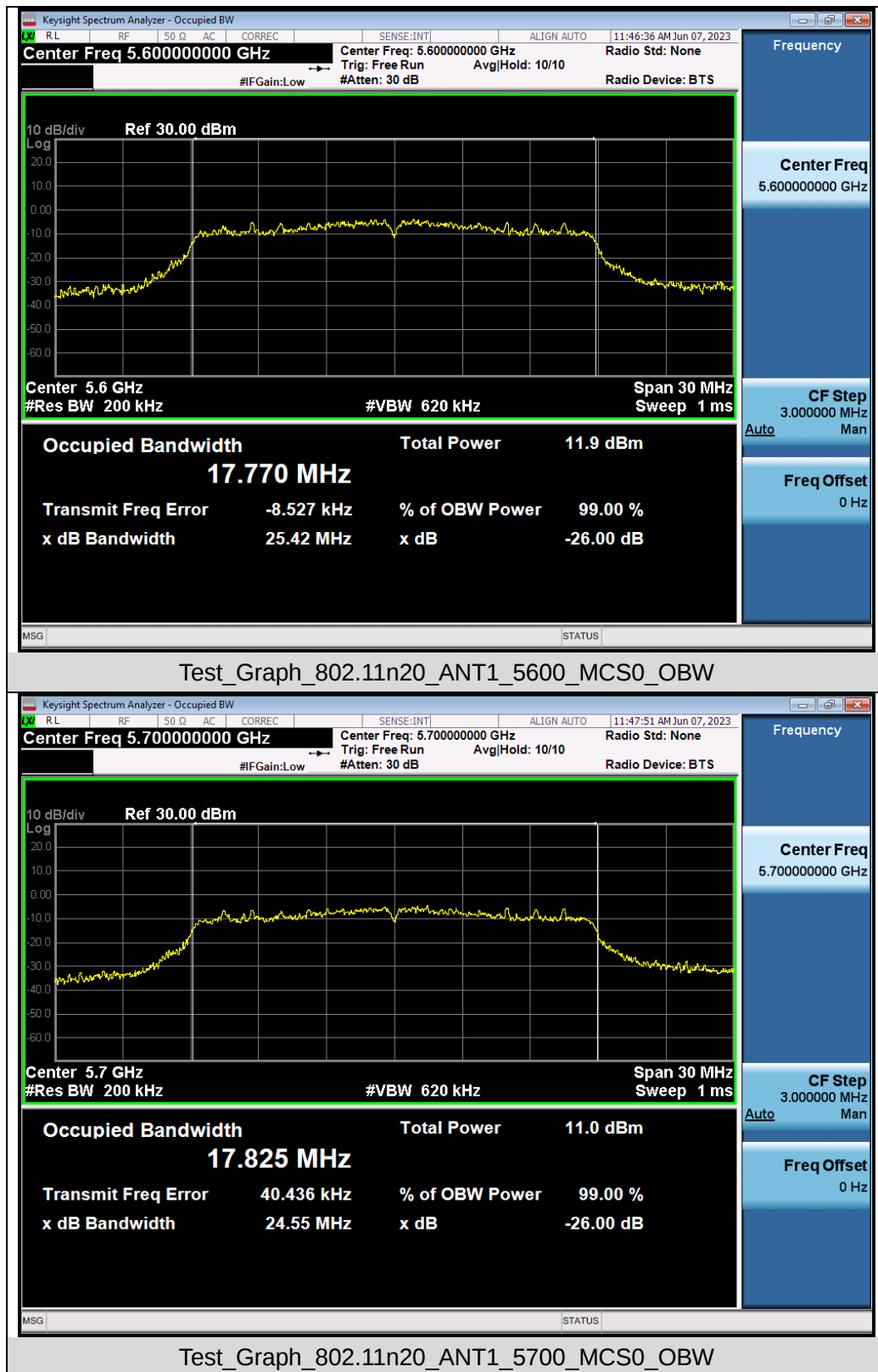


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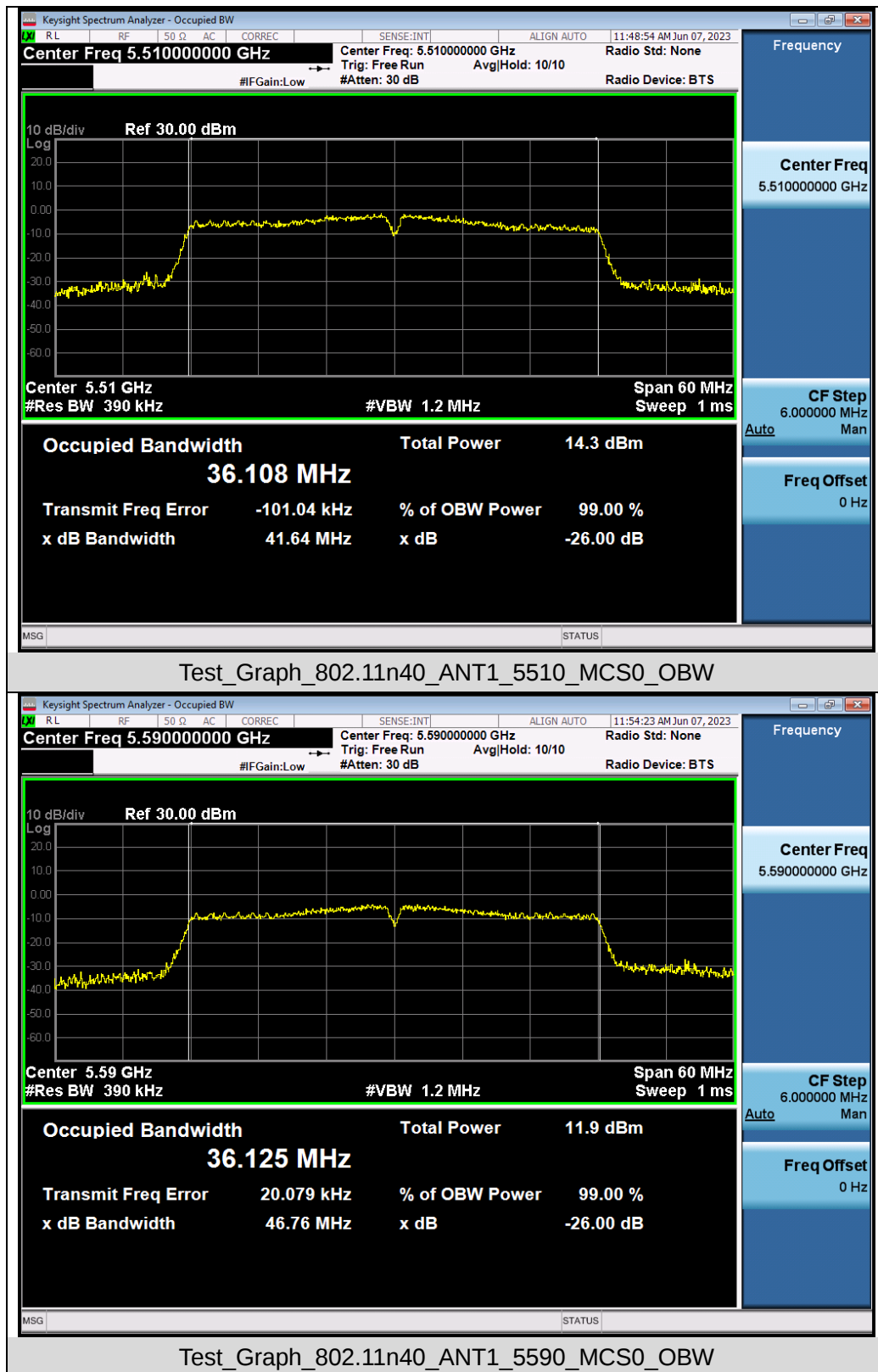
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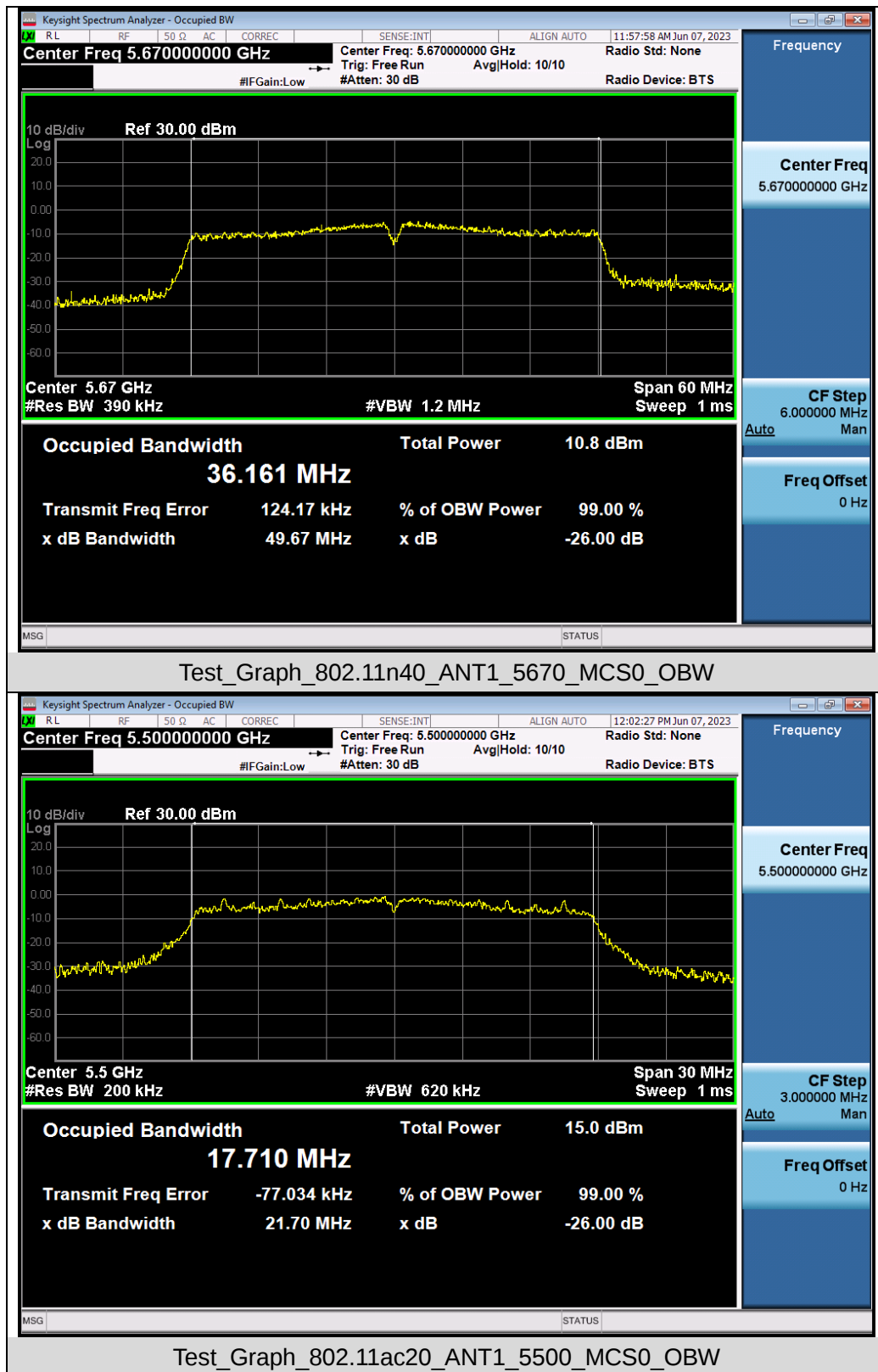
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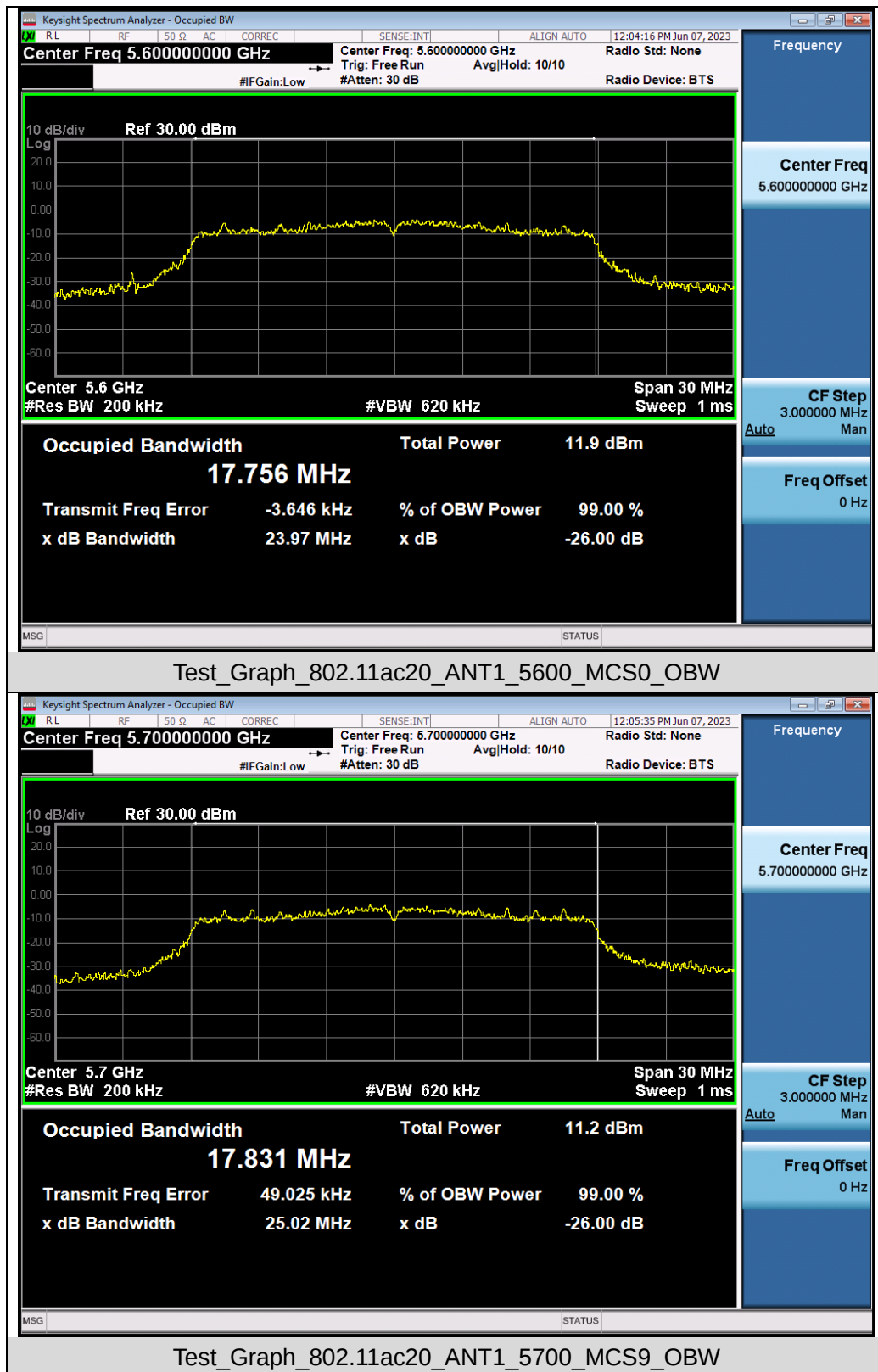
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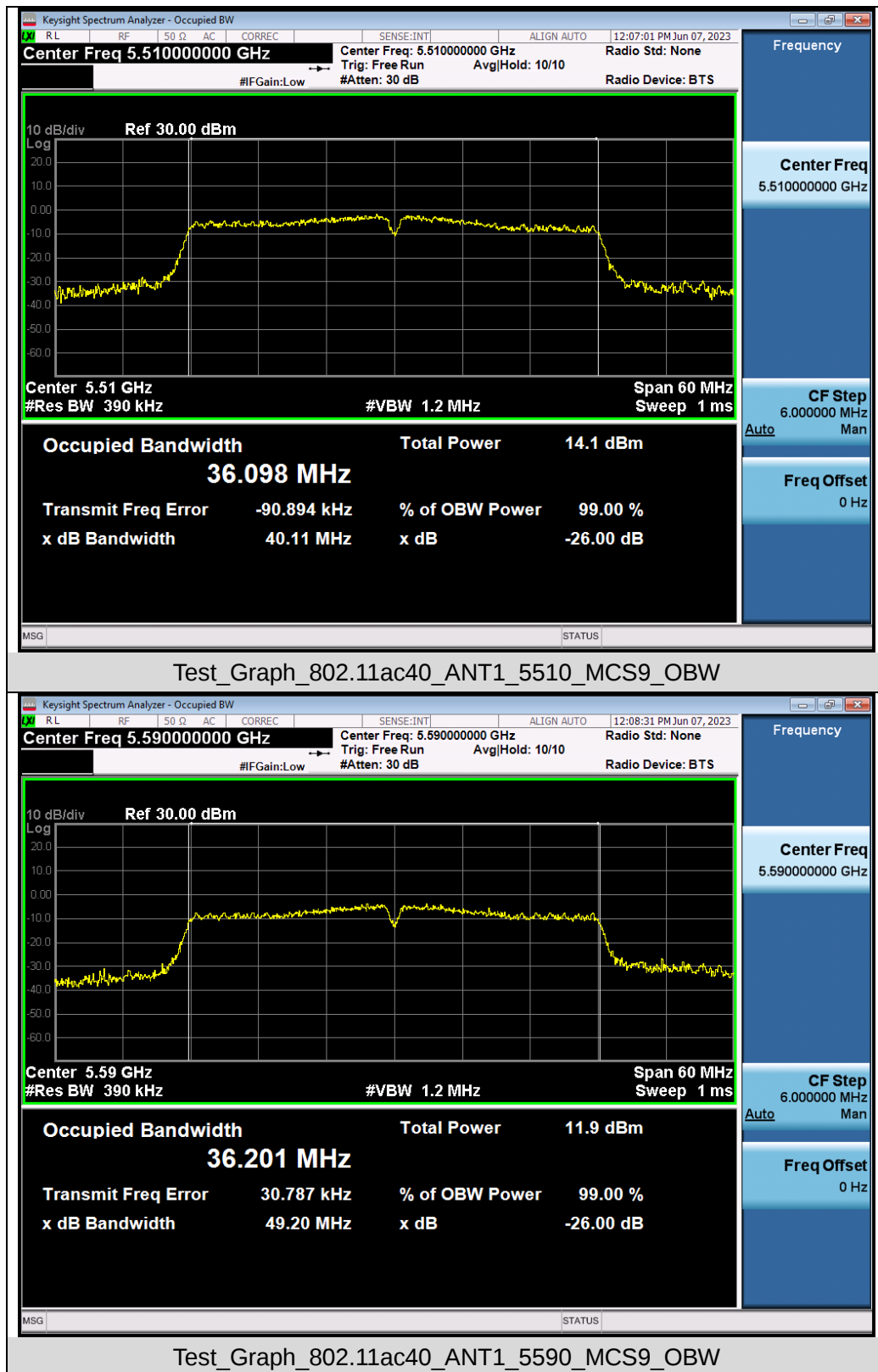
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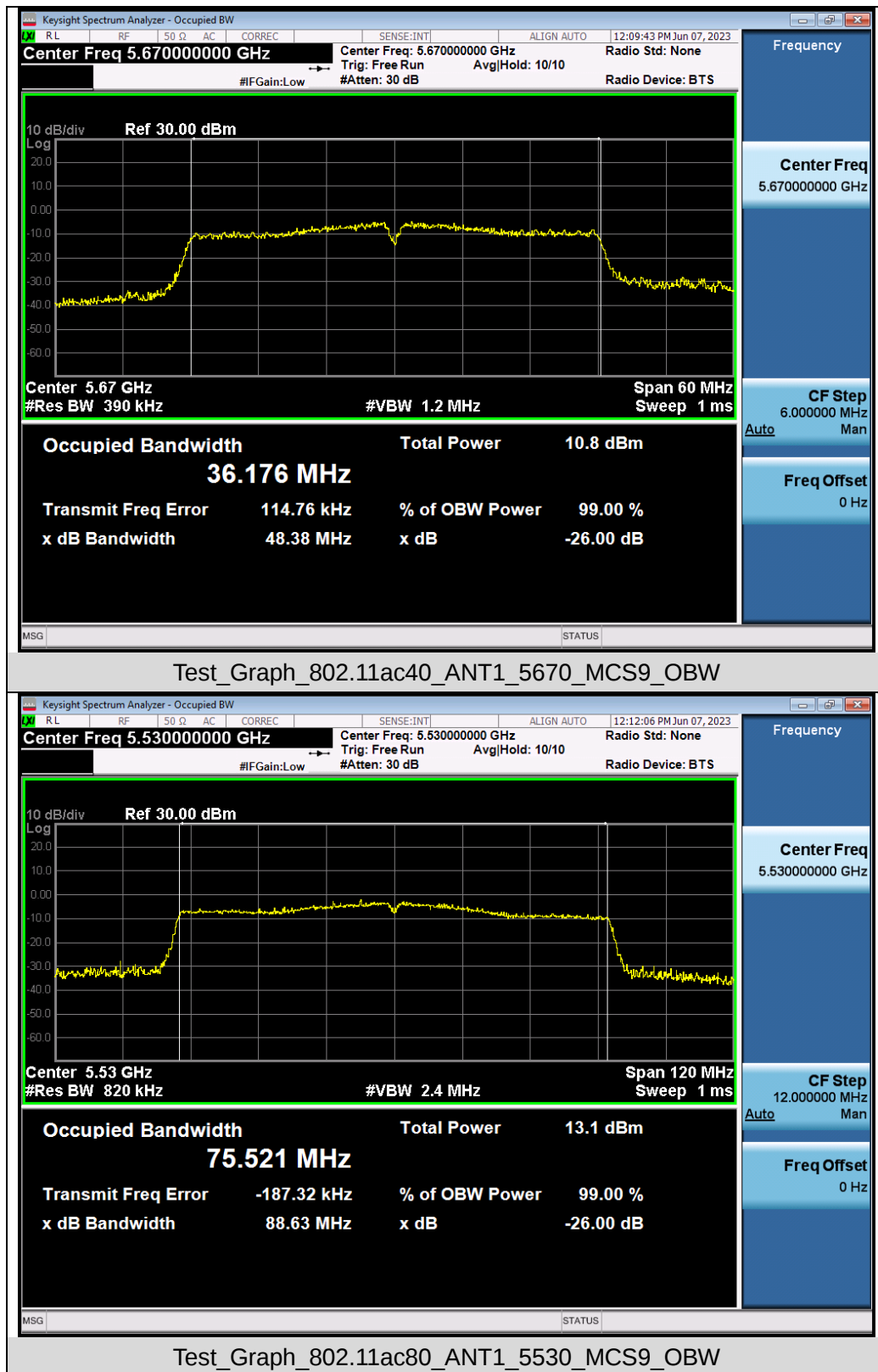
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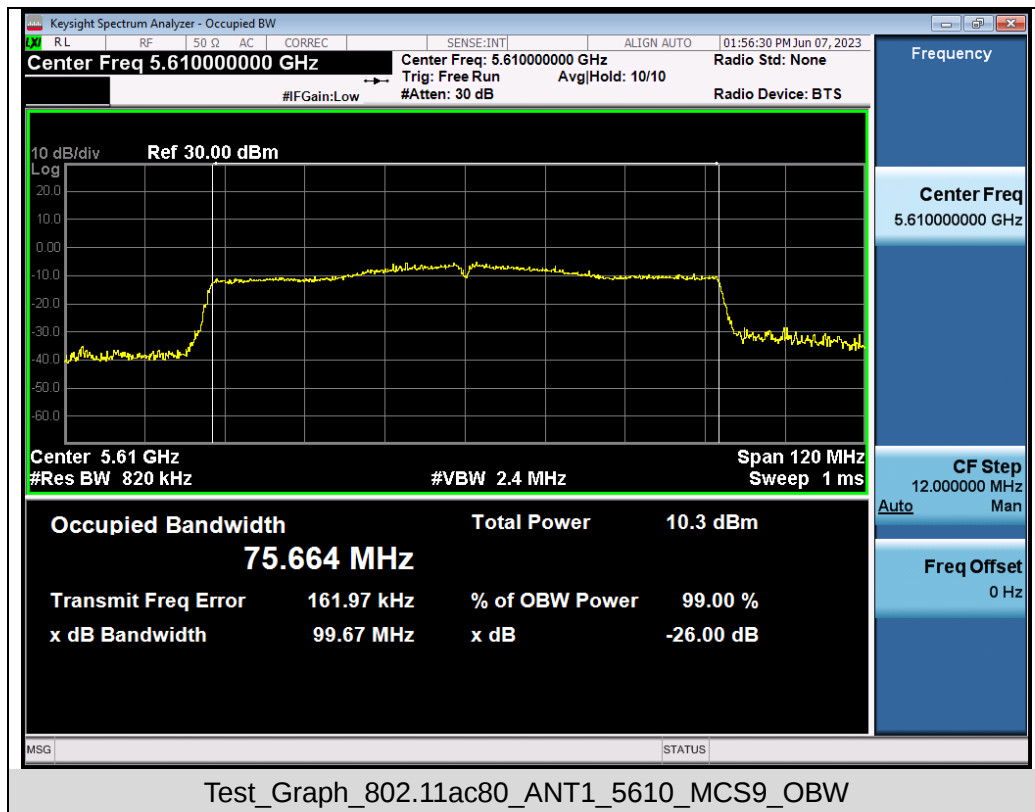
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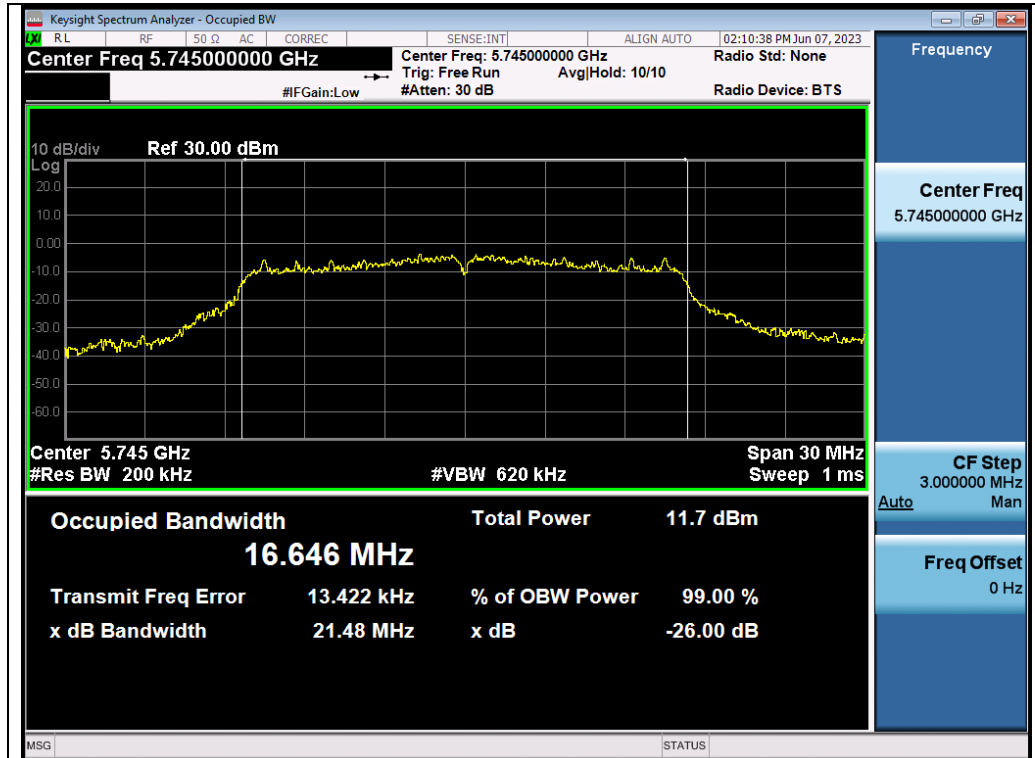
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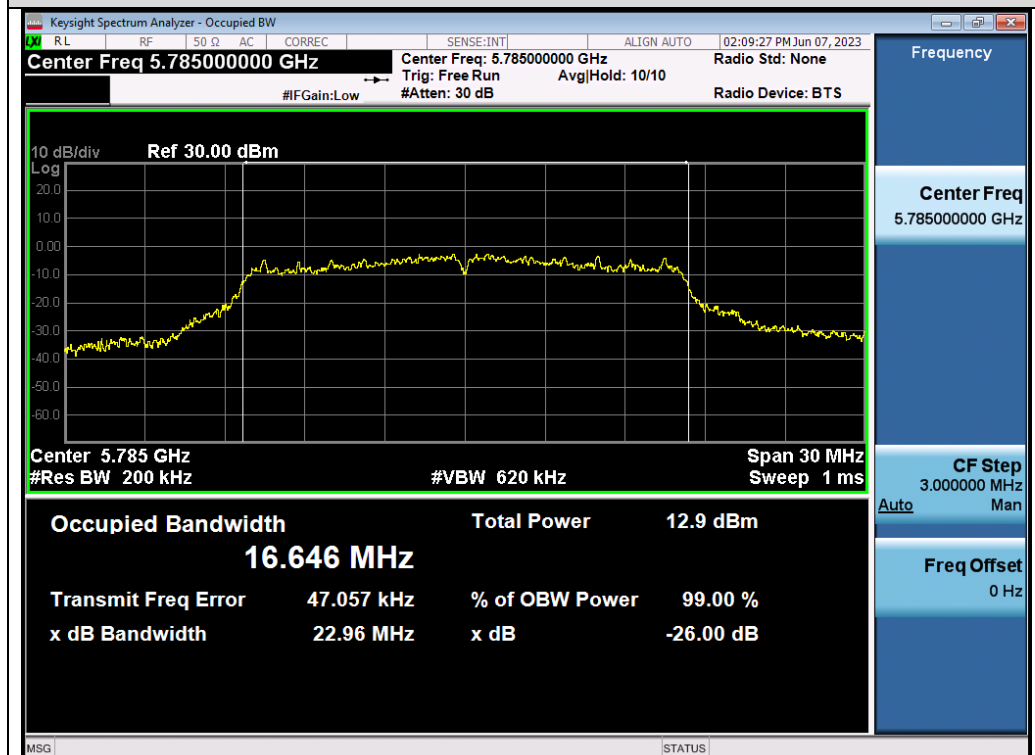
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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz

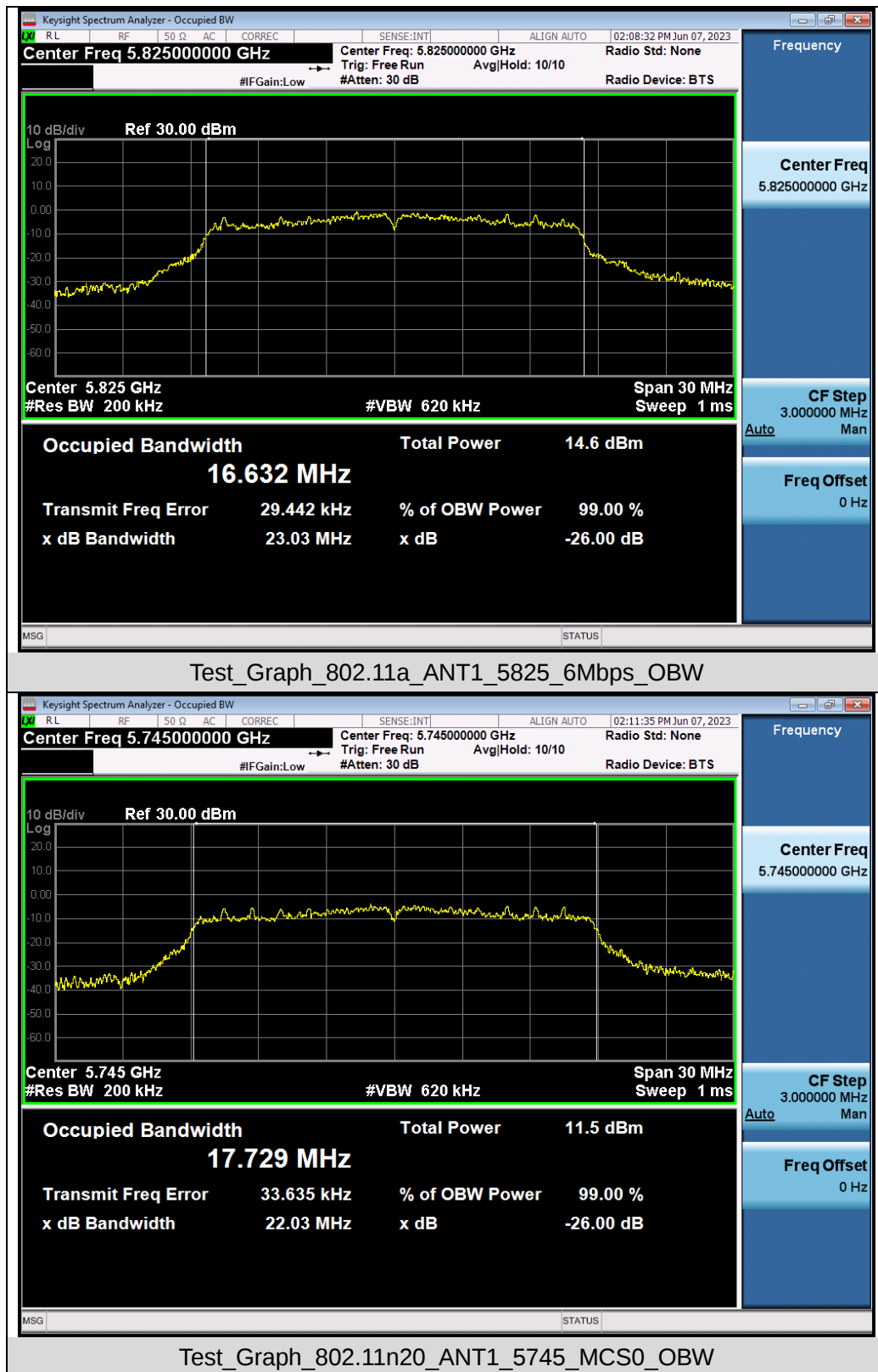


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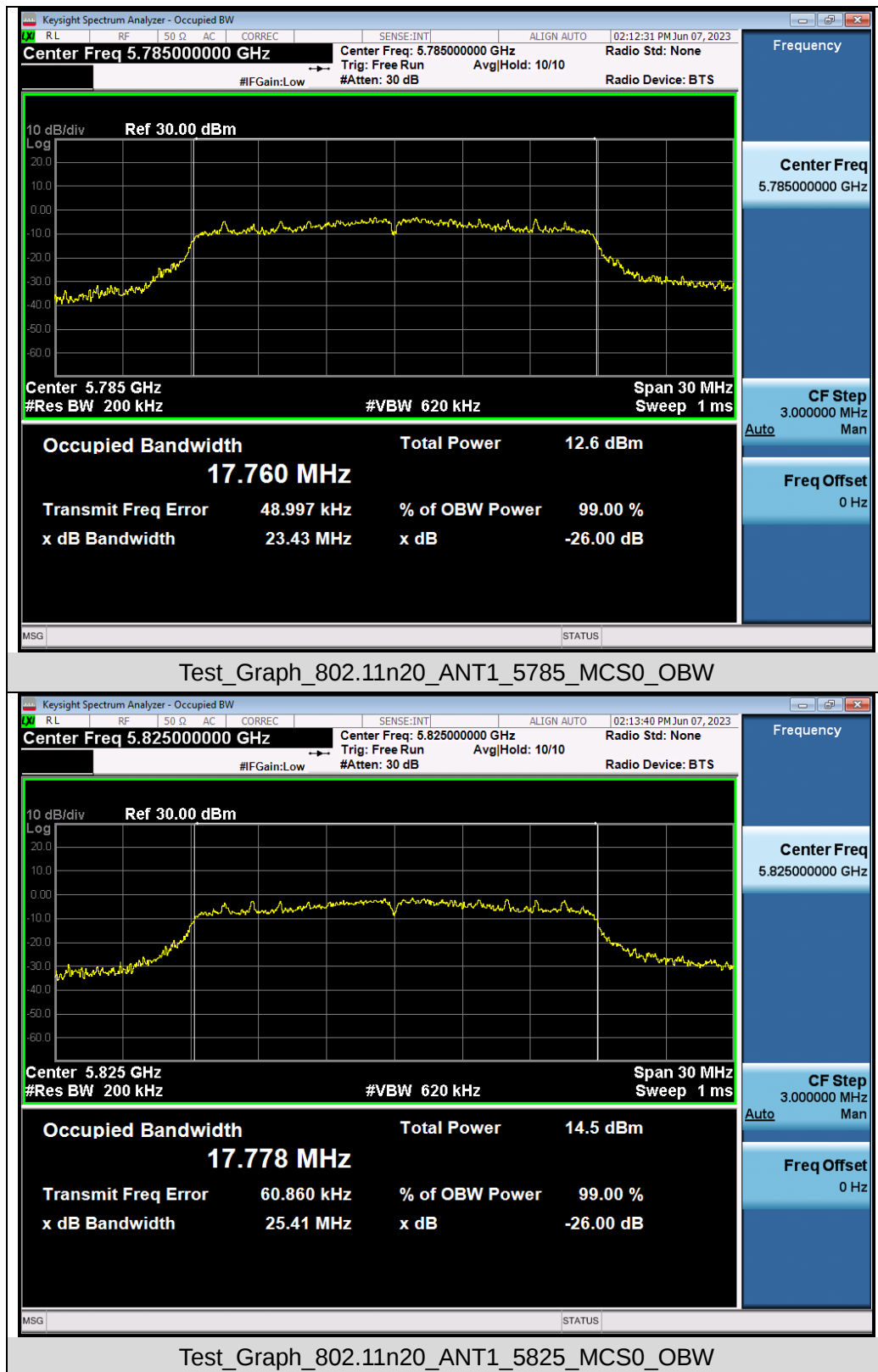


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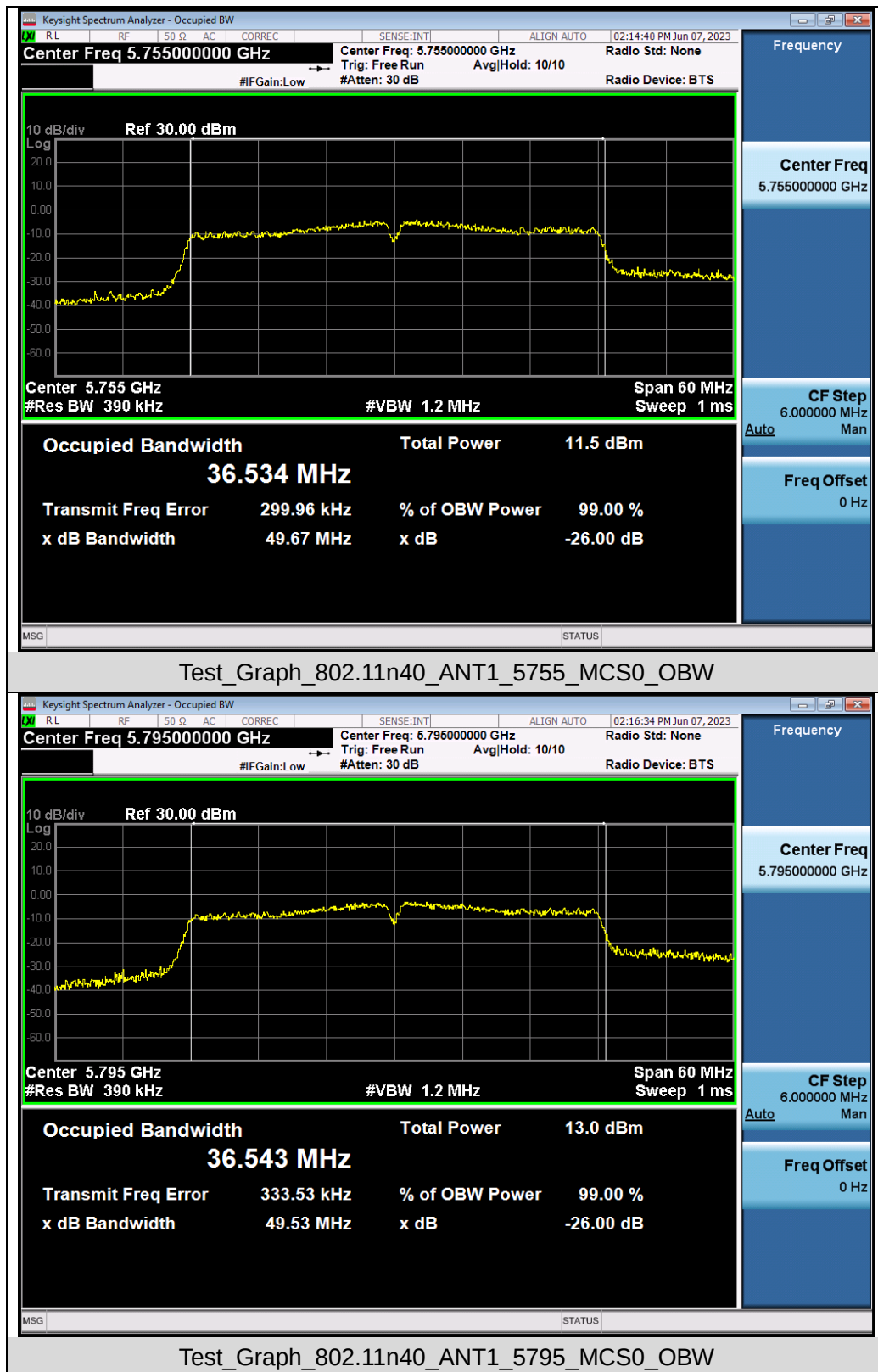
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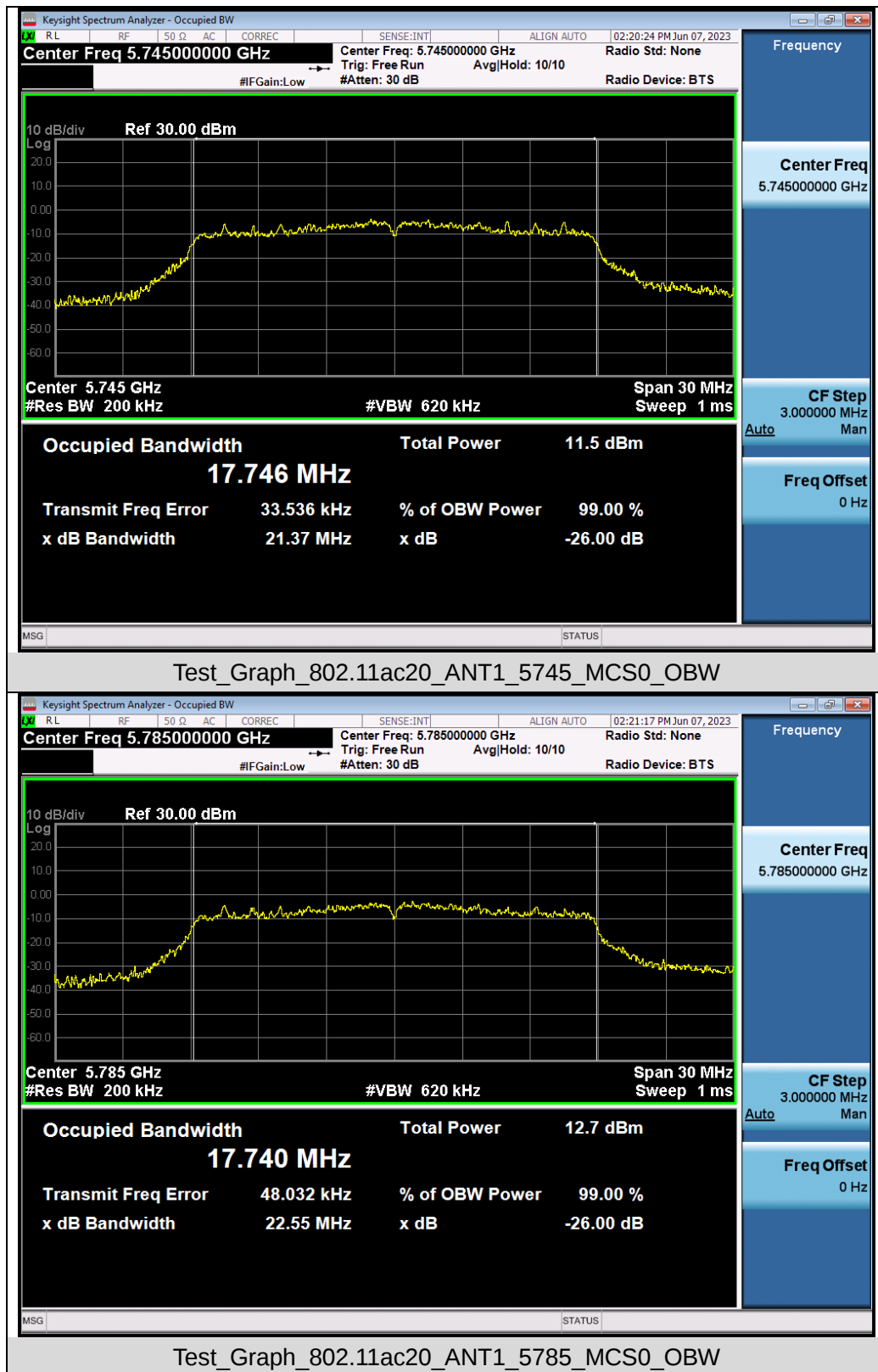
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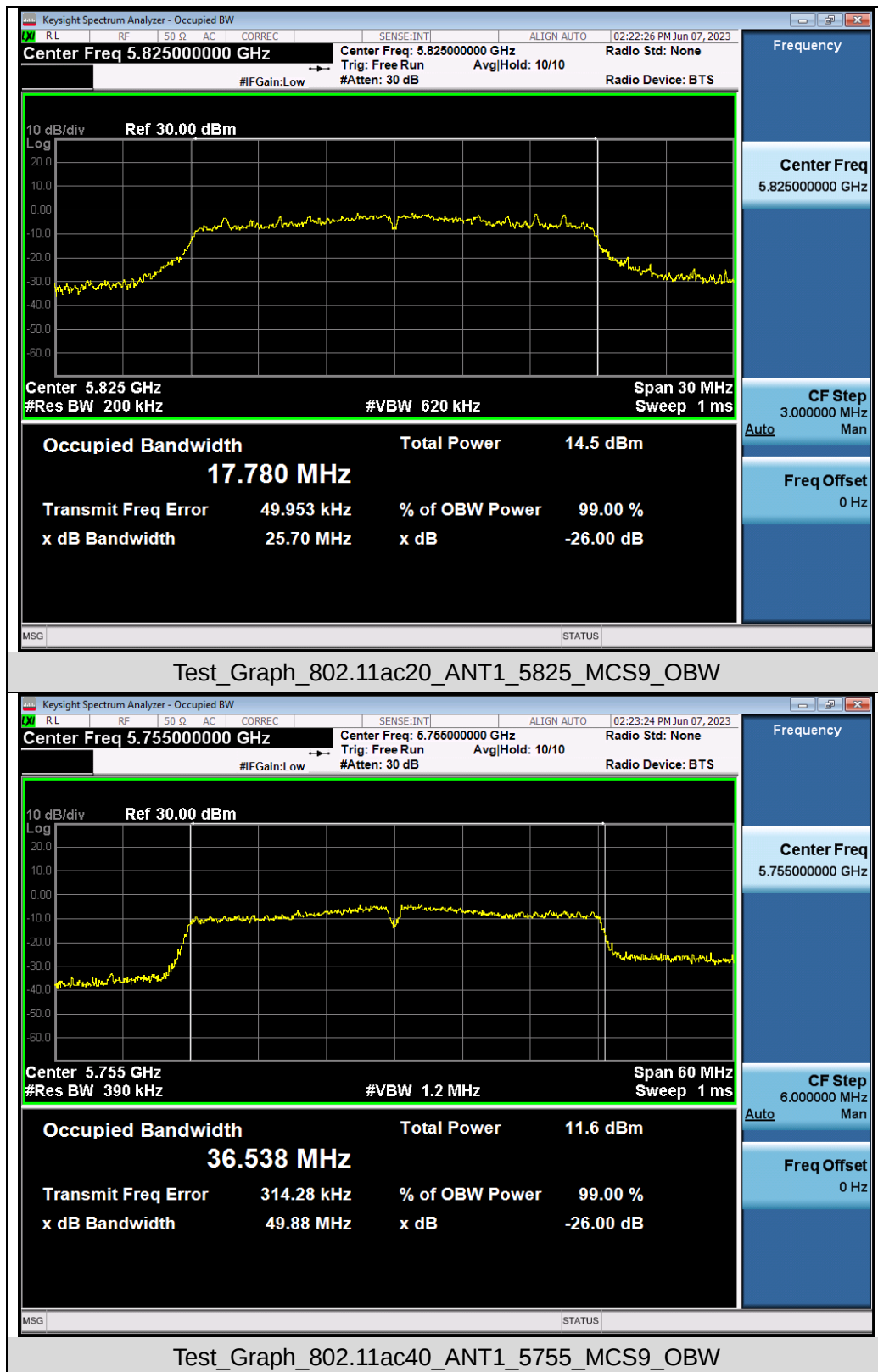
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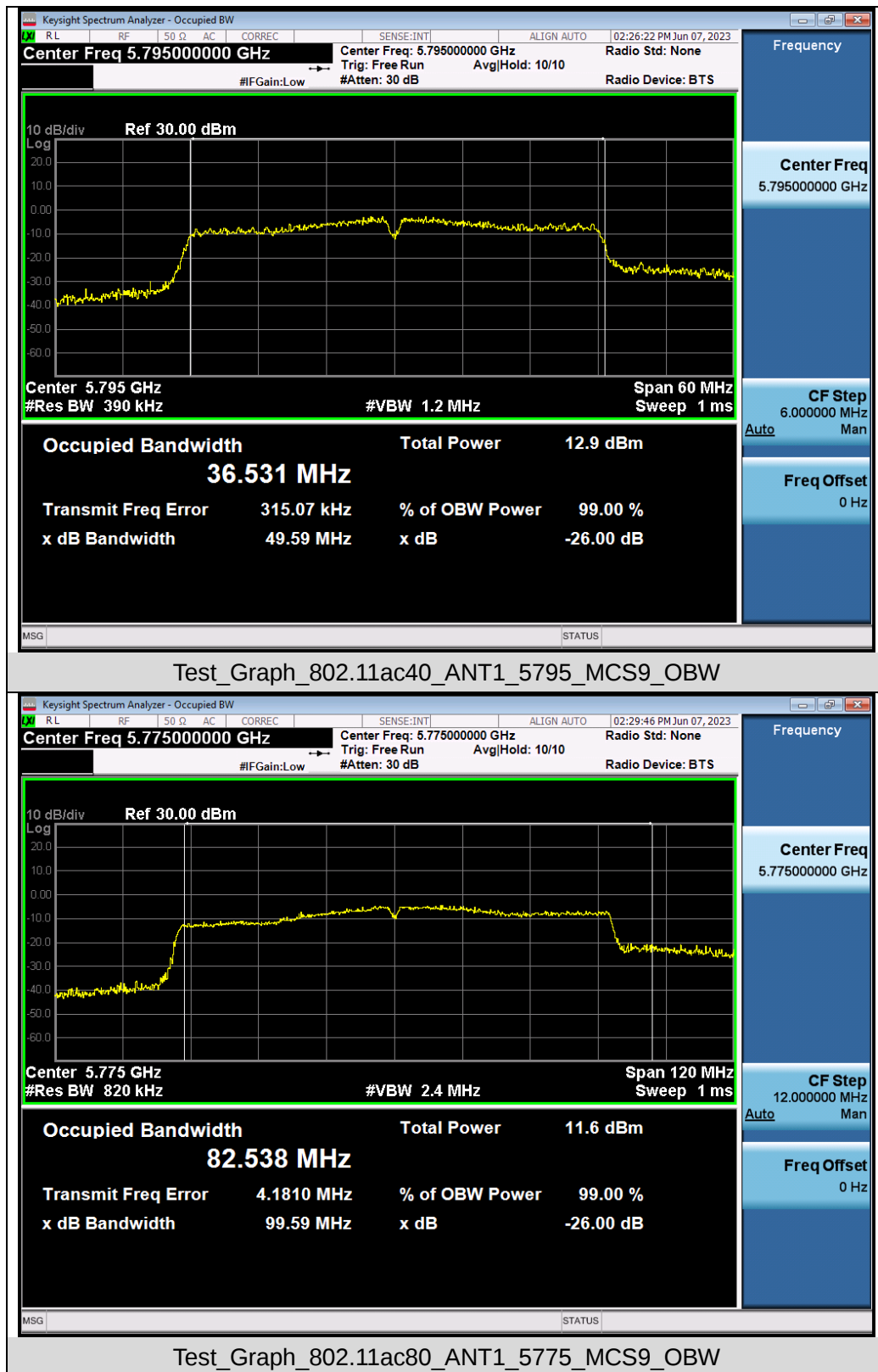


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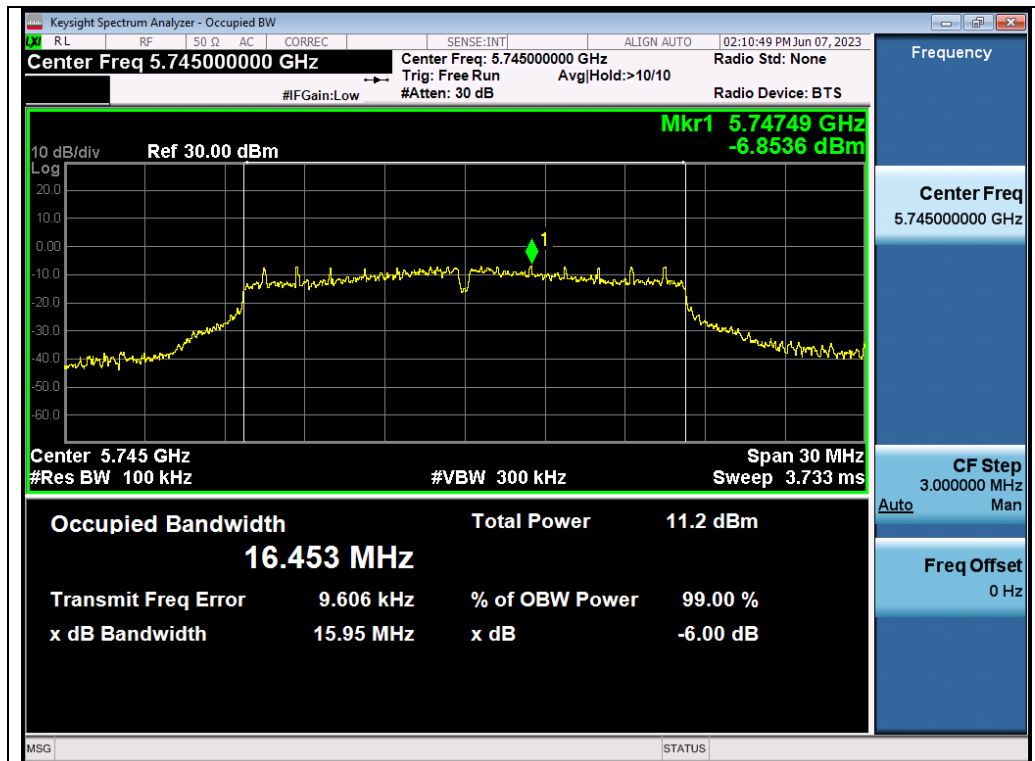
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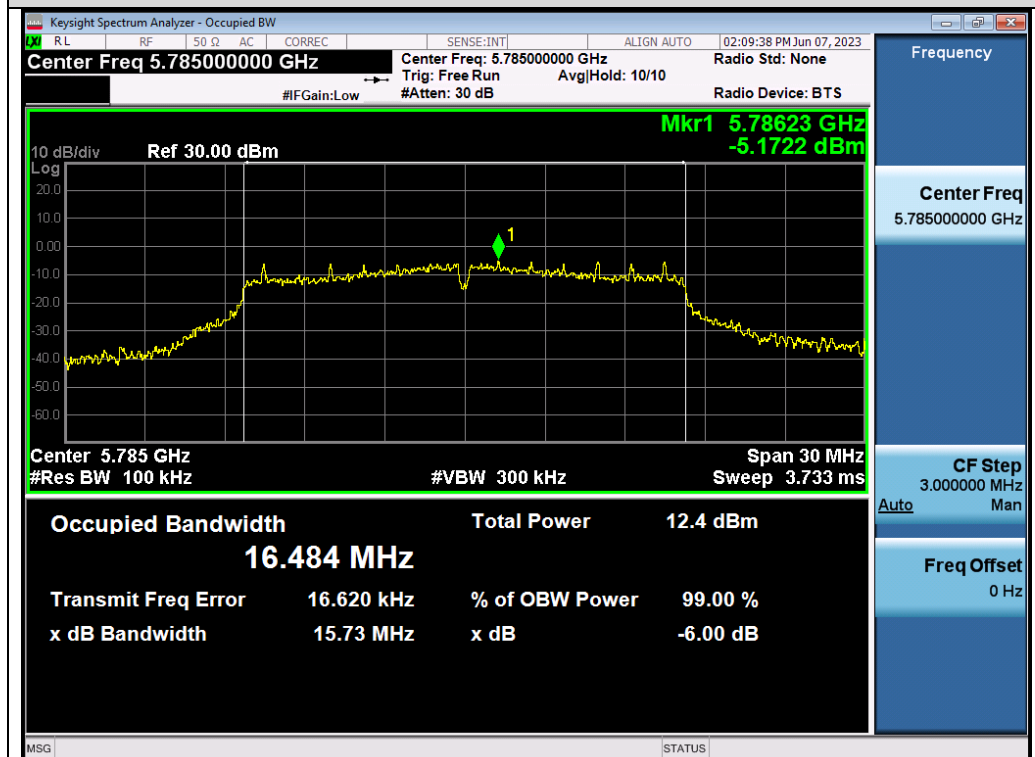


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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

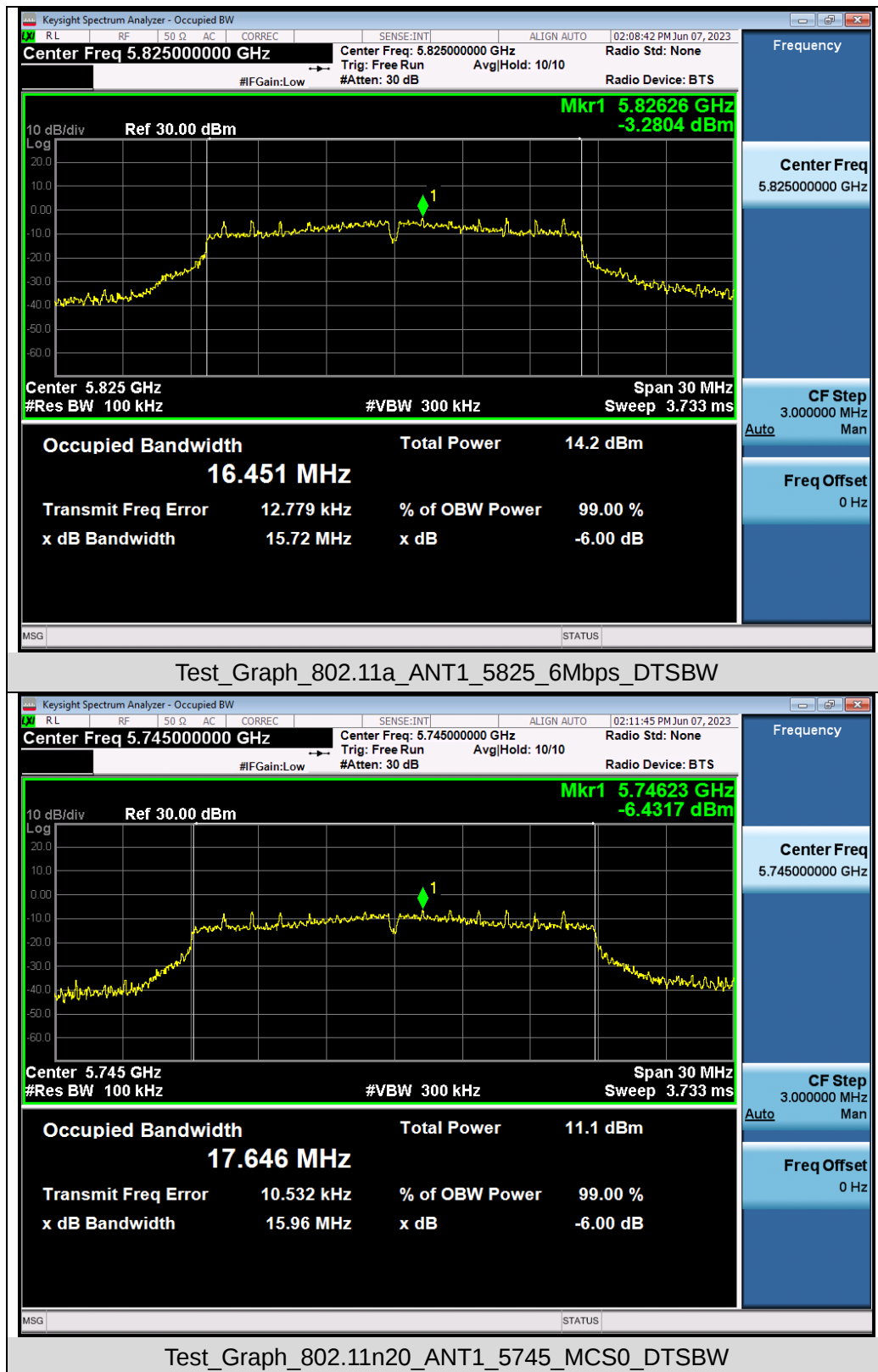


Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW

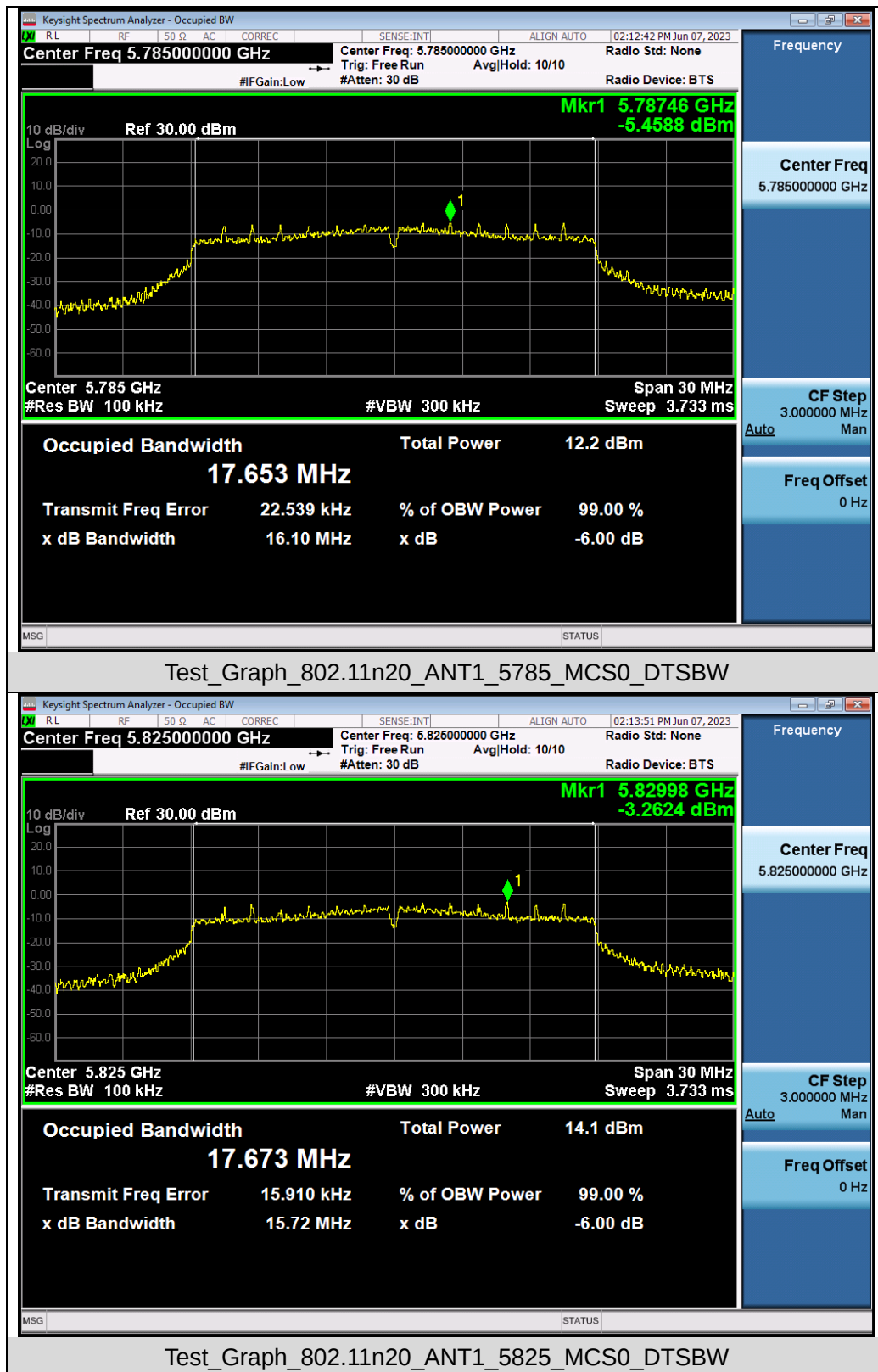


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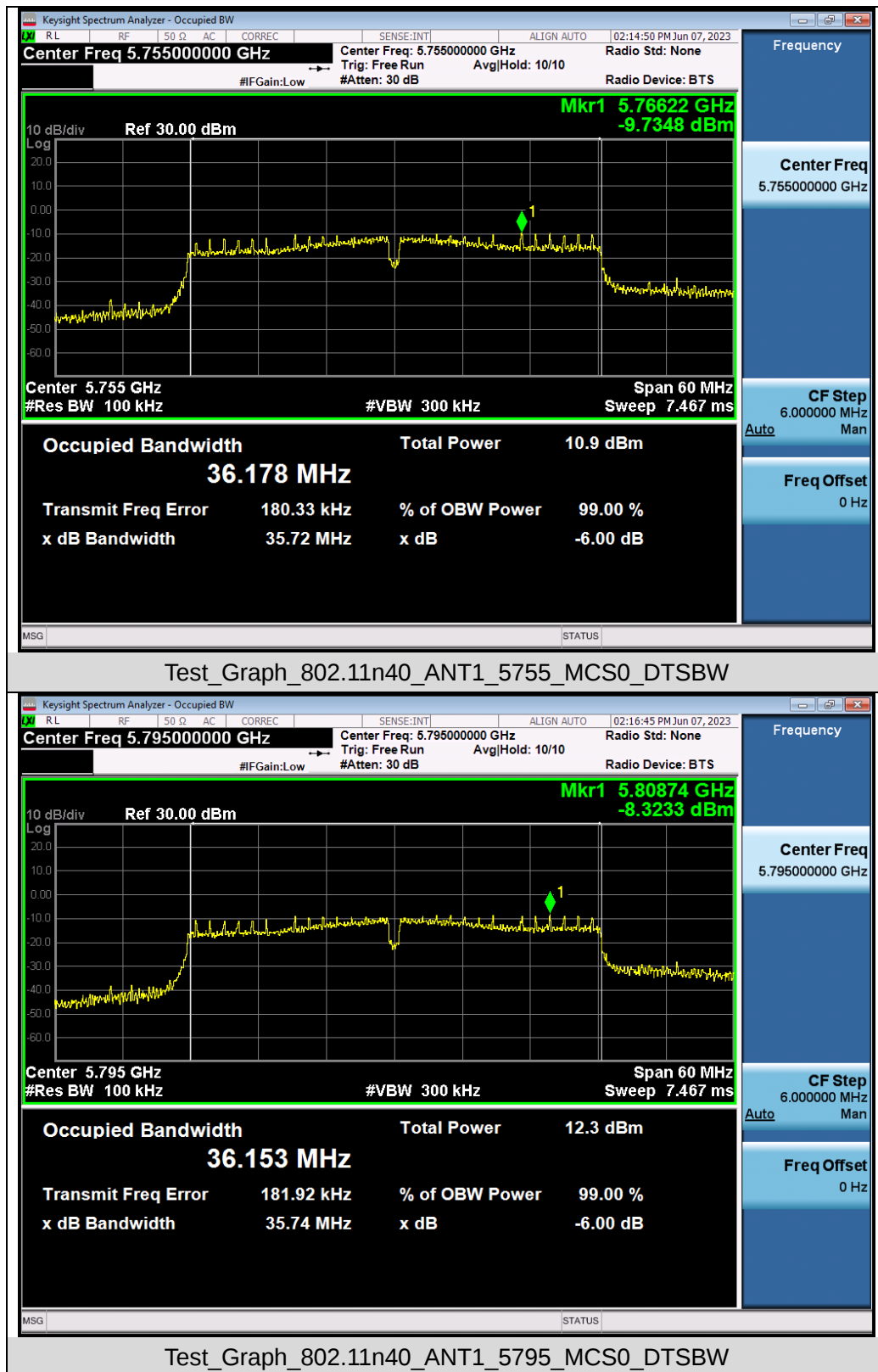
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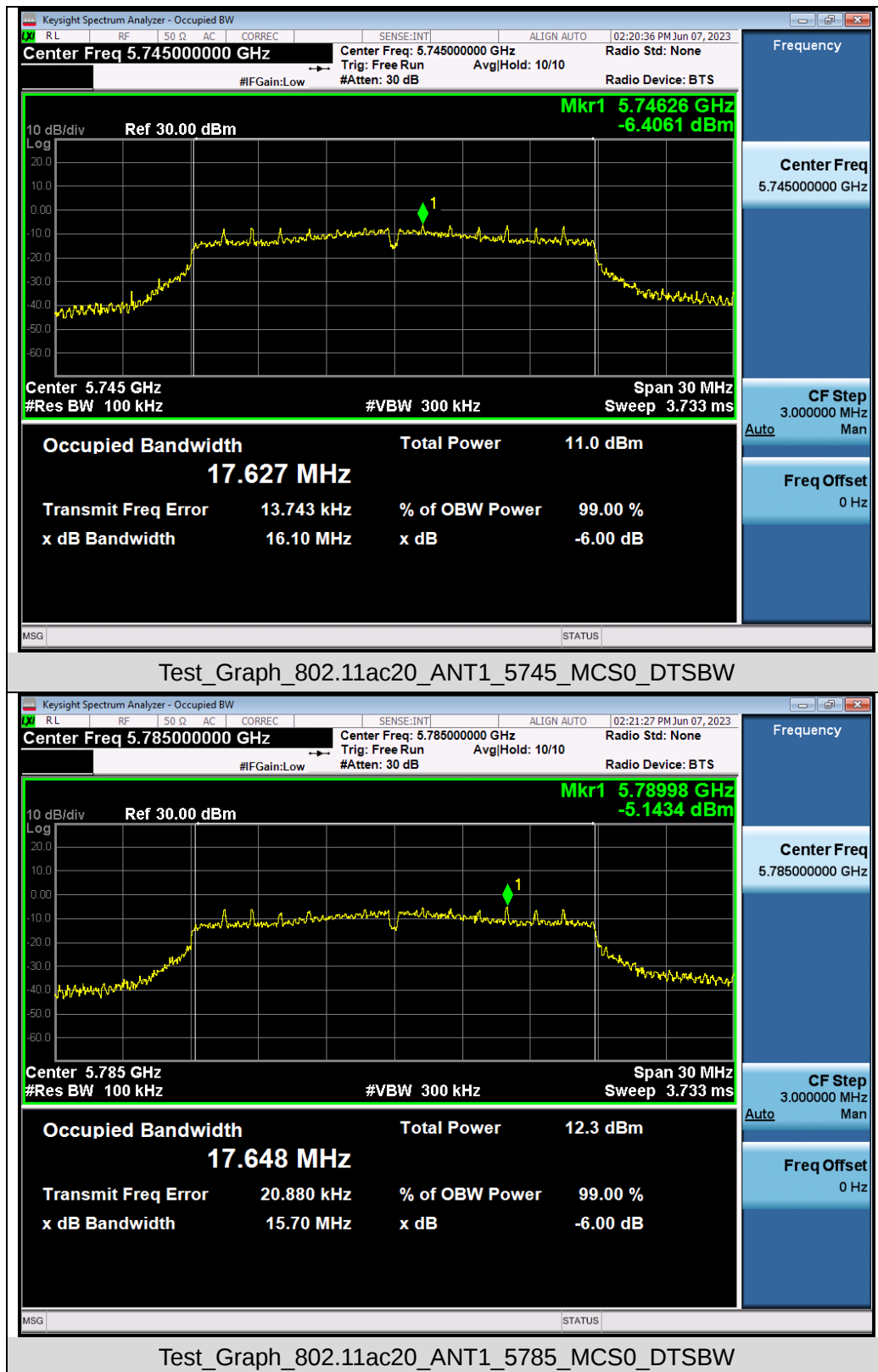
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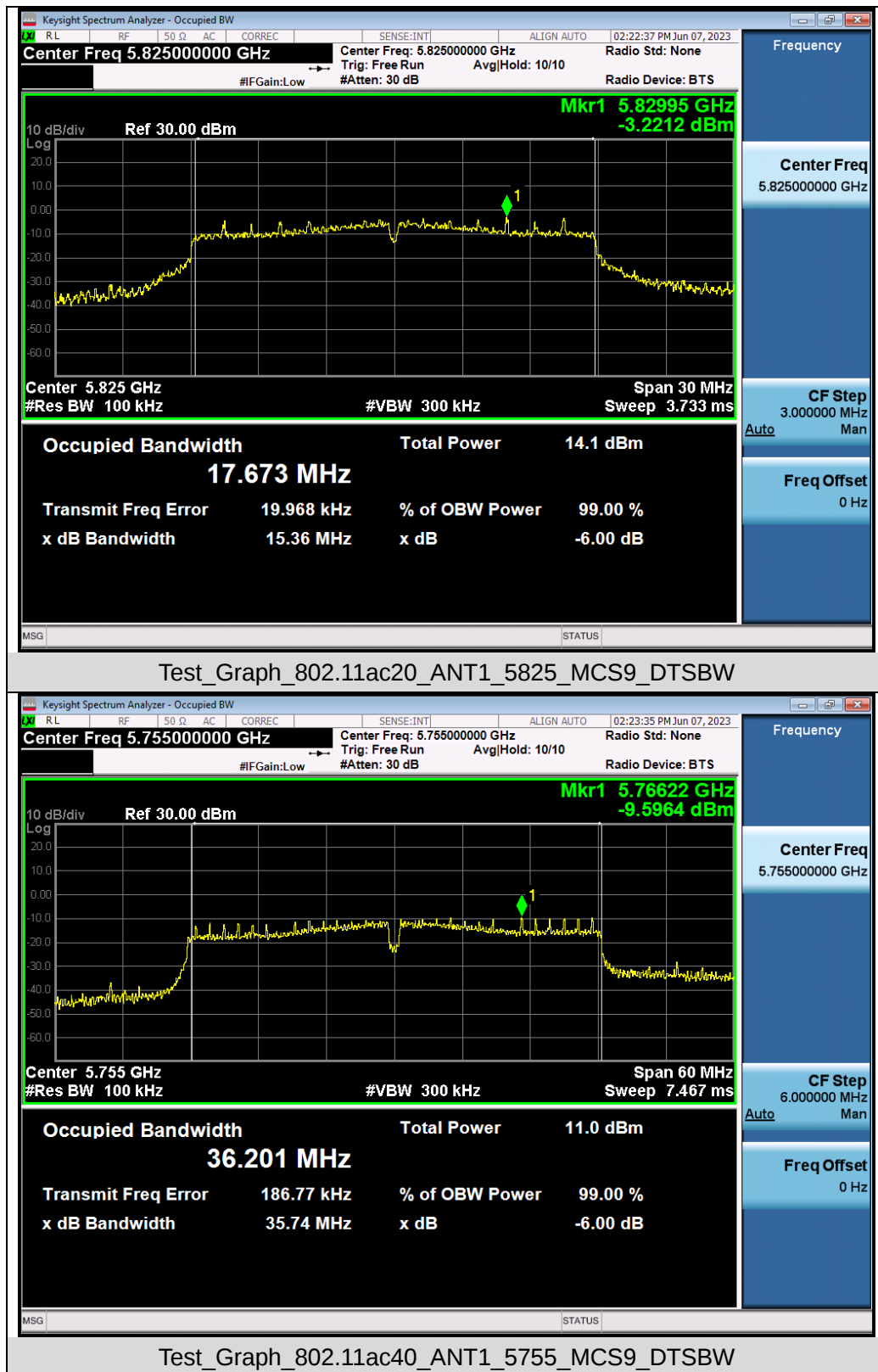
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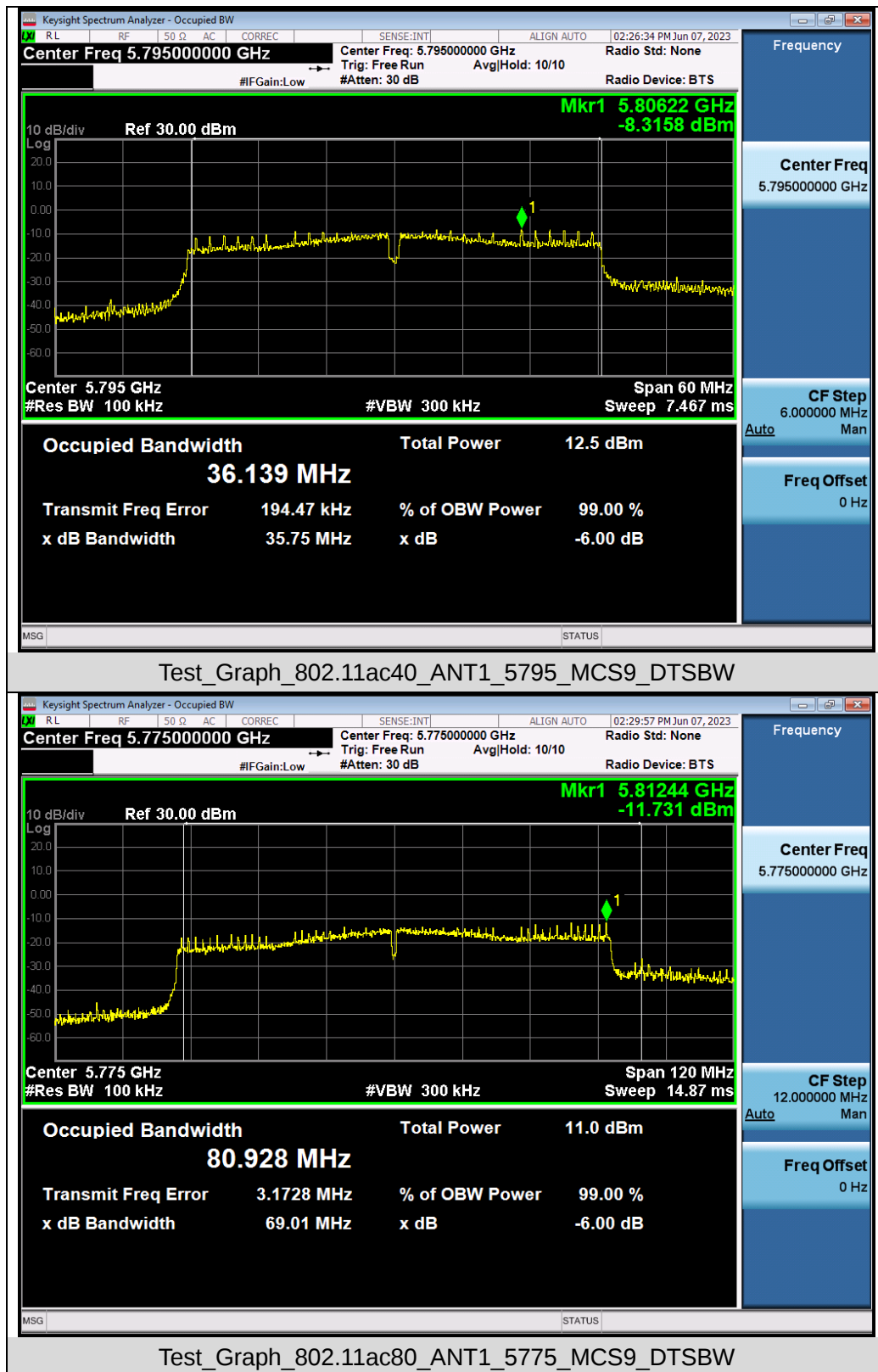


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8. POWER SPECTRAL DENSITY MEASUREMENT

8.1 MEASUREMENT LIMITS

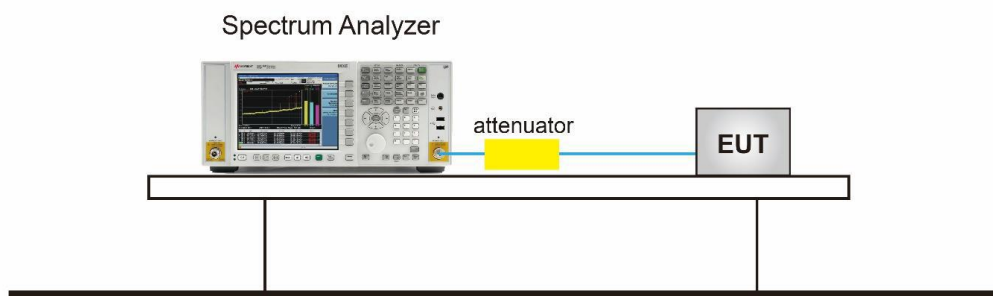
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

8.2 MEASUREMENT PROCEDURE

☒ For Average power spectral density test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz.
4. If measurement bandwidth of Maximum PSD is specified in 500 kHz, RBW = 100KHz
5. Set VBW $\geq [3 \times \text{RBW}]$.
6. Sweep Time=Auto couple.
7. Detector function=RMS (i.e., power averaging).
8. Trace average at least 100 traces in power averaging (rms) mode.
9. When the measurement bandwidth of Maximum PSD is specified in 100 kHz, add a constant factor $10 \times \log(500\text{kHz}/100\text{kHz}) = 6.99 \text{ dB}$ to the measured result.
10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
11. Add $[10 \log (1/D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.
12. Record the test results in the report.

8.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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8.4 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	0.501	11	Pass
	5200	0.147	11	Pass
	5240	0.023	11	Pass
802.11n20	5180	-0.306	11	Pass
	5200	-0.448	11	Pass
	5240	-0.581	11	Pass
802.11n40	5190	-3.248	11	Pass
	5230	-3.545	11	Pass
802.11ac20	5180	-0.393	11	Pass
	5200	-0.594	11	Pass
	5240	-0.665	11	Pass
802.11ac40	5190	-3.302	11	Pass
	5230	-3.205	11	Pass
802.11ac80	5210	-7.335	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	-0.209	11	Pass
	5300	-0.031	11	Pass
	5320	-0.057	11	Pass
802.11n20	5260	-0.448	11	Pass
	5300	-0.567	11	Pass
	5320	-0.612	11	Pass
802.11n40	5270	-4.086	11	Pass
	5310	-4.429	11	Pass
802.11ac20	5260	-0.514	11	Pass
	5300	-0.607	11	Pass
	5320	-0.242	11	Pass
802.11ac40	5270	-4.372	11	Pass
	5310	-4.259	11	Pass
802.11ac80	5290	-7.086	11	Pass

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Test Data of Conducted Output Power Density for band 5.47-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	0.008	11	Pass
	5600	-3.303	11	Pass
	5700	-4.135	11	Pass
802.11n20	5500	-0.676	11	Pass
	5600	-3.837	11	Pass
	5700	-4.652	11	Pass
802.11n40	5510	-3.998	11	Pass
	5590	-6.324	11	Pass
	5670	-7.120	11	Pass
802.11ac20	5500	-0.710	11	Pass
	5600	-3.687	11	Pass
	5700	-4.386	11	Pass
802.11ac40	5510	-3.982	11	Pass
	5590	-6.313	11	Pass
	5670	-7.401	11	Pass
802.11ac80	5530	-7.237	11	Pass
	5610	-9.794	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	-12.221	-5.231	30	Pass
	5785	-10.727	-3.737	30	Pass
	5825	-9.180	-2.190	30	Pass
802.11n20	5745	-12.746	-5.756	30	Pass
	5785	-11.531	-4.541	30	Pass
	5825	-9.590	-2.600	30	Pass
802.11n40	5755	-15.863	-8.873	30	Pass
	5795	-14.335	-7.345	30	Pass
802.11ac20	5745	-12.829	-5.839	30	Pass
	5785	-11.564	-4.574	30	Pass
	5825	-9.940	-2.950	30	Pass
802.11ac40	5755	-15.859	-8.869	30	Pass
	5795	-14.489	-7.499	30	Pass
802.11ac80	5775	-18.031	-11.041	30	Pass

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

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

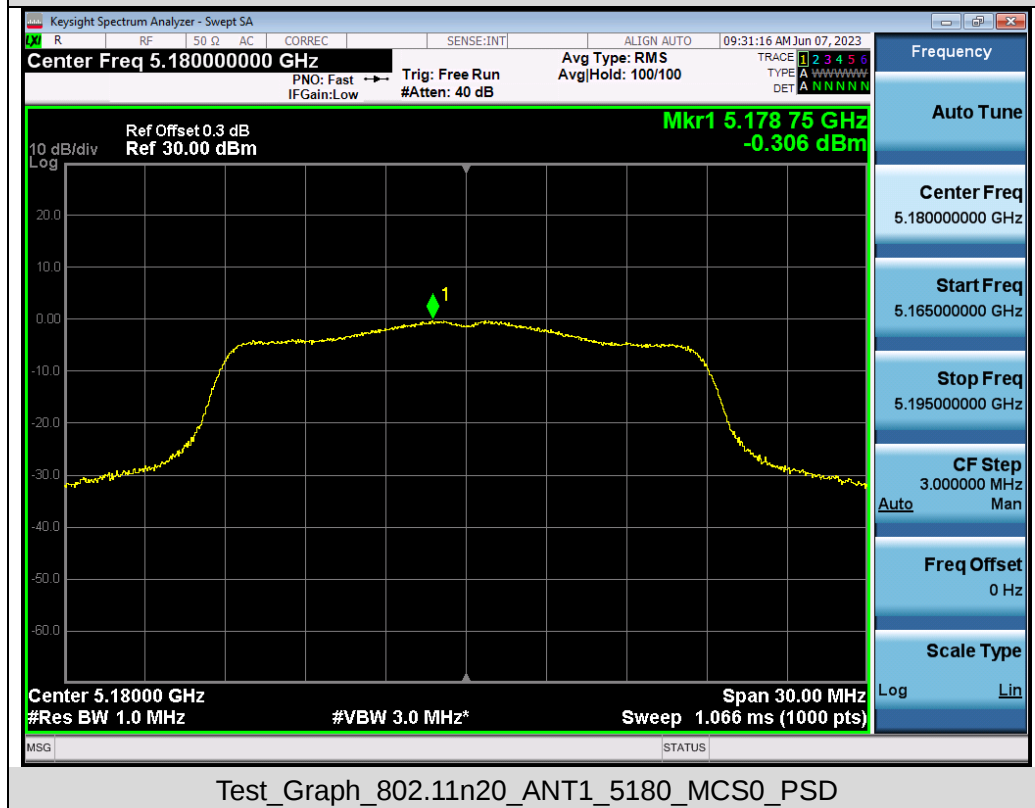
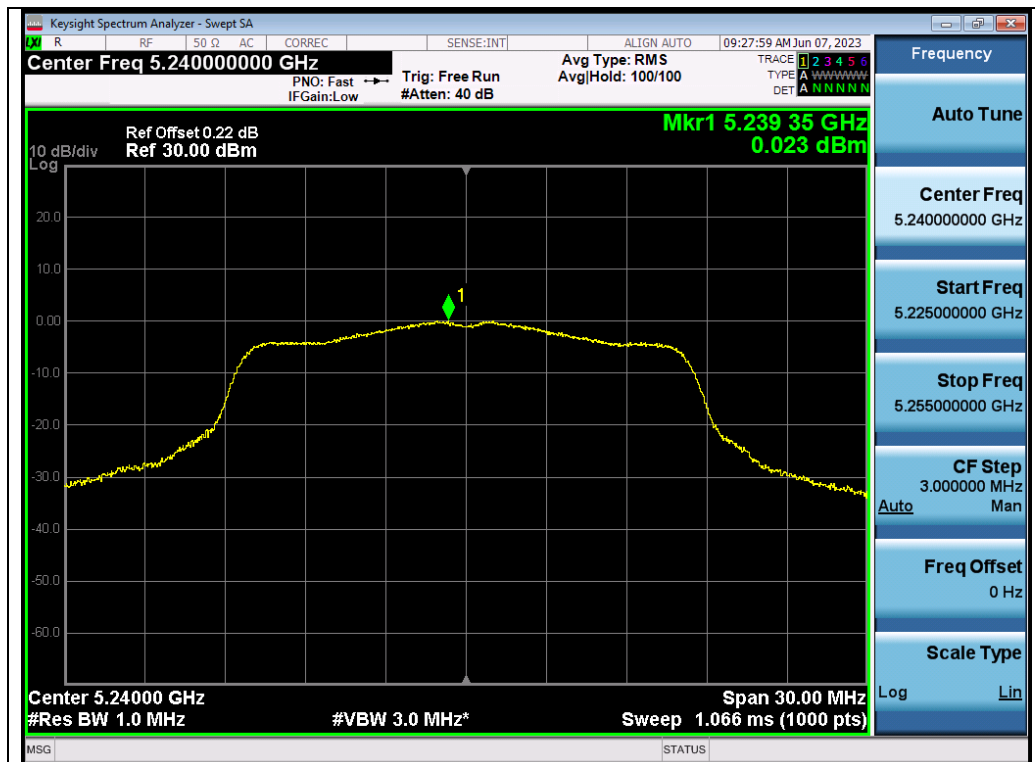


Test_Graph_802.11a_ANT1_5180_6Mbps_PSD



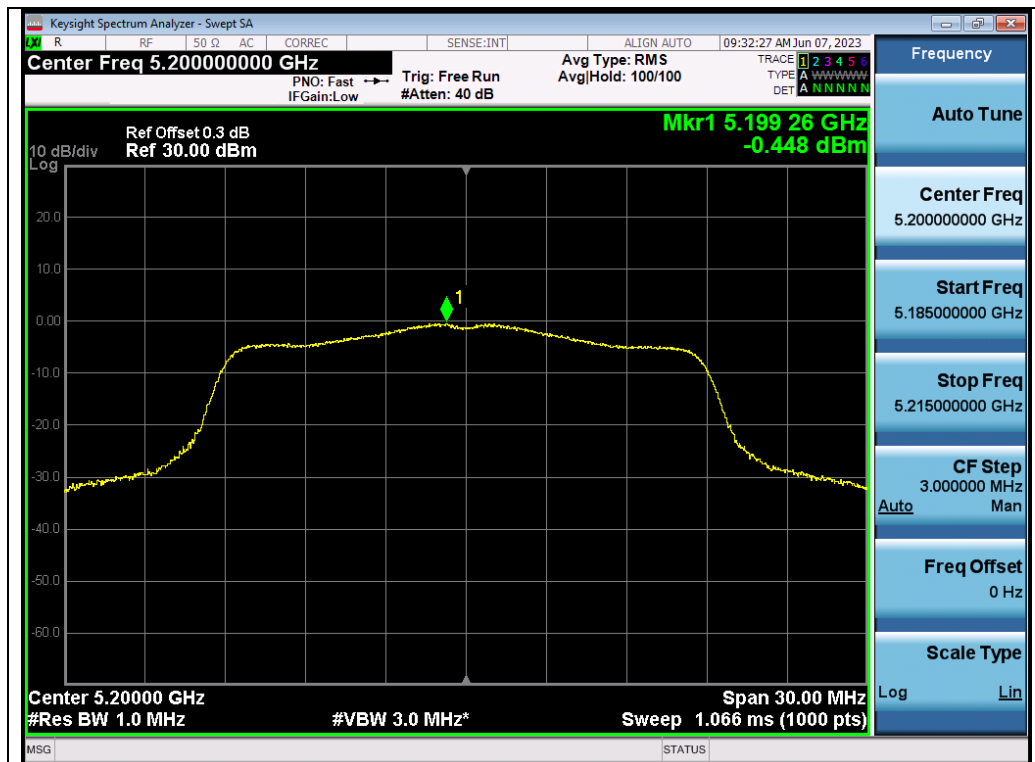
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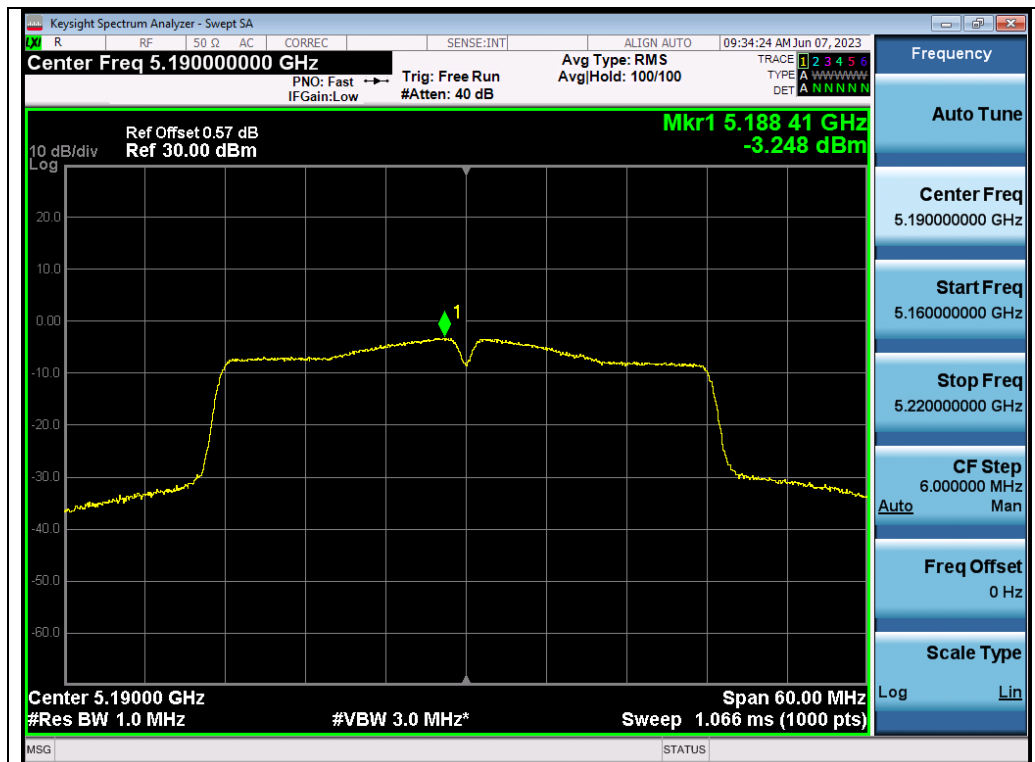


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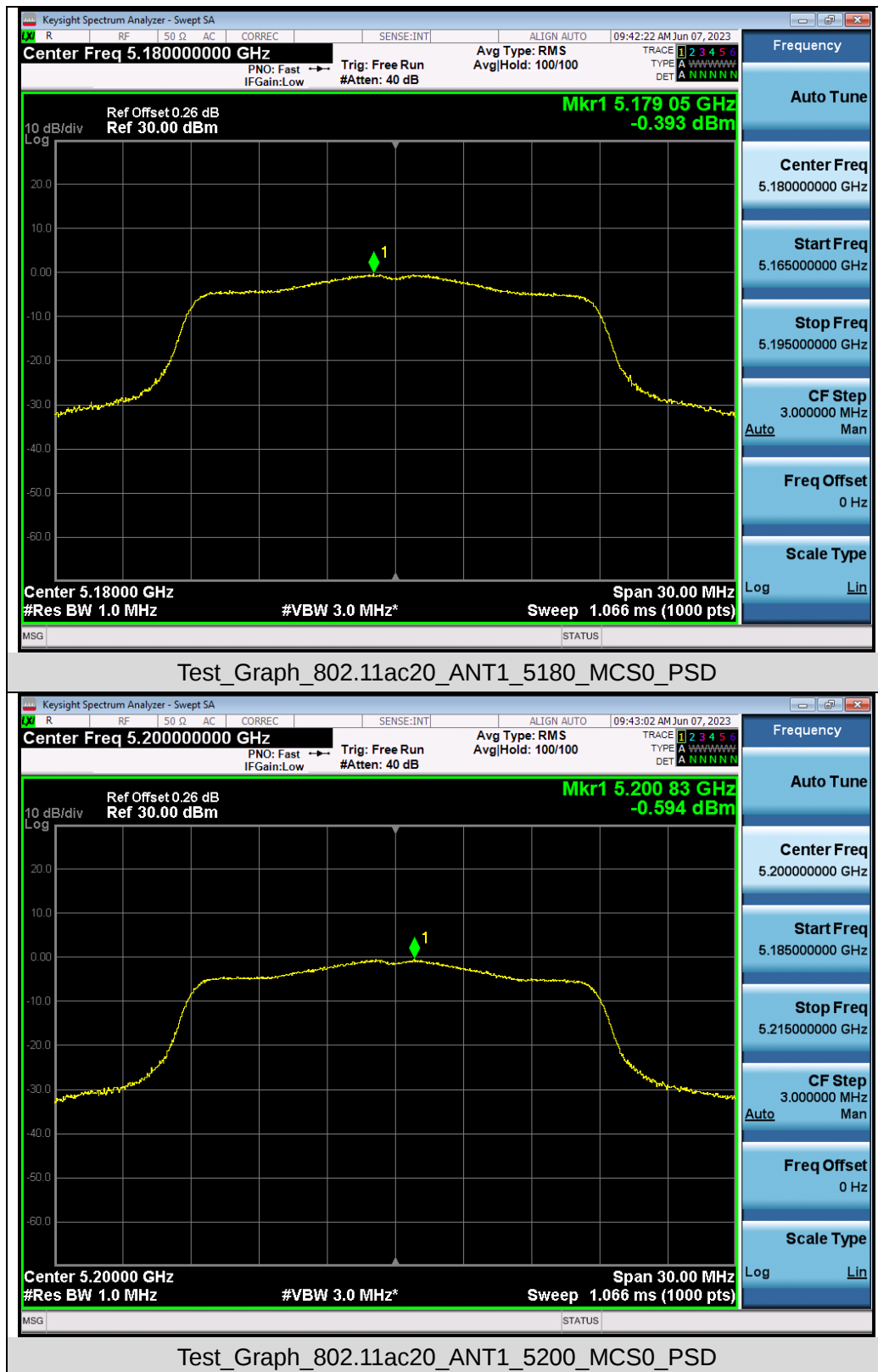
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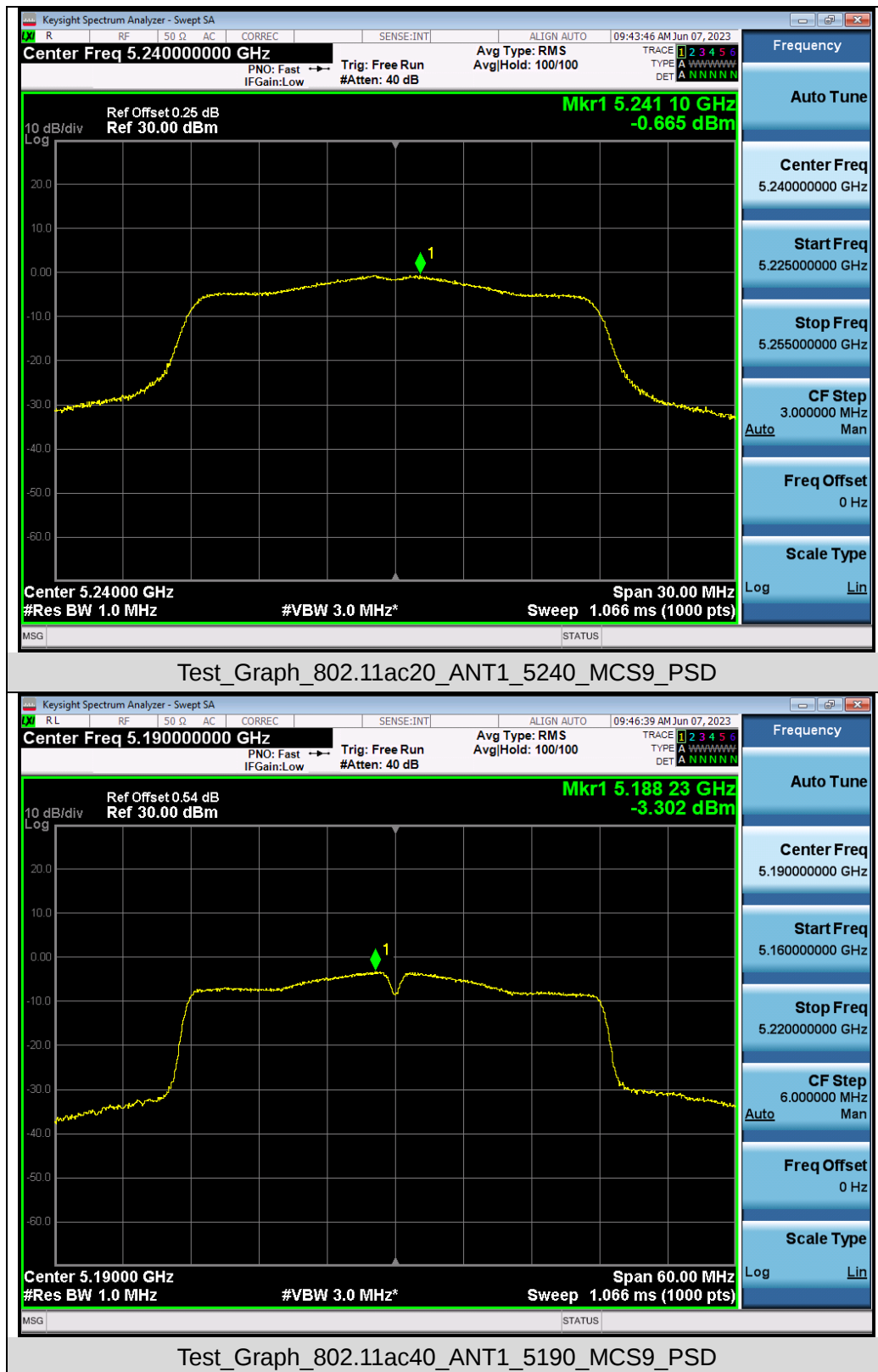
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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz



Test_Graph_802.11a_ANT1_5260_6Mbps_PSD



Test_Graph_802.11a_ANT1_5300_6Mbps_PSD

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