
FCC Test Report

Report No.: AGC13454230712FR03

FCC ID : 2A94QVA-SP009

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Portable Smart Projector 1080P

BRAND NAME : VAVA

MODEL NAME : VA-SP009

APPLICANT : Shenzhen Aspiron Technology Company Limited

DATE OF ISSUE : Sep. 08, 2023

STANDARD(S) : FCC Part 15 Subpart C §15.247

REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 08, 2023	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Aspiron Technology Company Limited
Address	3rd Floor, Yiben Building, No.1063 Chaguang Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China
manufacturer	Shenzhen Aspiron Technology Company Limited
Address	3rd Floor, Yiben Building, No.1063 Chaguang Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China
Factory	Dongguan Jiadun Gaoshi Electronics Co., Ltd
Address	Room 401, No. 29, Shanglang Road, Chang'an Town, Dongguan, Guangdong Province, China
Product Designation	Portable Smart Projector 1080P
Brand Name	VAVA
Test Model	VA-SP009
Date of receipt of test item	Jul. 31, 2023
Date of test	Jul. 31, 2023 to Sep. 08, 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 radiated emission limits of FCC Rules Part 15.247.

Prepared By



Alan Duan
(Project Engineer)

Sep. 08, 2023

Reviewed By



Calvin Liu
(Reviewer)

Sep. 08, 2023

Approved By



Max Zhang
Authorized Officer

Sep. 08, 2023

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

Equipment Type	WLAN 2.4G
Frequency Band	2400MHz ~ 2483.5MHz
Operation Frequency	2412MHz ~ 2462MHz
Output Power (Average)	IEEE 802.11b: 14.29dBm; IEEE 802.11g: 12.86dBm; IEEE 802.11n(HT20): 13.00dBm; IEEE 802.11n(HT40): 13.11dBm
Output Power (Peak)	IEEE 802.11b: 16.72dBm; IEEE 802.11g: 20.56dBm; IEEE 802.11n(HT20): 20.47dBm; IEEE 802.11n(HT40): 20.49dBm
Output Power (MIMO- Average)	IEEE 802.11n(HT20): 15.80dBm; IEEE 802.11n(HT40): 16.00dBm
Output Power (MIMO- Peak)	IEEE 802.11n(HT20): 23.19dBm; IEEE 802.11n(HT40): 23.24dBm
Modulation	802.11b:(DQPSK, DBPSK,CCK)DSSS 802.11g/n:(64-QAM,16-QAM,QPSK, BPSK)OFDM
Data Rate	802.11b:1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps
Number of channels	11
Hardware Version	P302-A_MAIN_V4.2
Software Version	20230724_V1.0.29
Antenna Designation	FPC antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	Please refer to report section 2.10 description
Number of transmit chain	2(802.11b/g/n all used two antennas,802.11n support MIMO)
Power Supply	DC 11.4V by battery or DC 15V by adapter

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2.2. TABLE OF CARRIER FREQUENCIES

For 2412-2462MHz:

11 channels are provided for 802.11b/g/n(HT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz		

7 channels are provided for 802.11n(HT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	--	02	--	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	--	11	--		

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2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		Data rate(Mbps)	
									800nsGI	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

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

This submittal(s) (test report) is intended for **FCC ID: 2A94QVA-SP009** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

The tests were performed according to following standards:

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	KDB 662911 D01 Multiple Transmitter Output v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.8. ANTENNA REQUIREMENT

Standard Requirement
<p>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.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi</p> <p>EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. For the antenna gain, please refer to the description in Chapter 2.10 of the report.</p>

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2.9. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)		Max Directional Gain (dBi)
				Ant 1	Ant 2	
2.4GWIFI FPC Antenna List (2.4GHz 2*2 MIMO)						
FPC Antenna	2400~2483.5	2	20	1.6	1.8	4.81

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n/ax mode.

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on devices:

$$\text{Array Gain} = 10 \log (N_{ANT} / N_{SS}) \text{ dB} = 3.01;$$

- For power measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 0 \text{ dB for } N_{ANT} \leq 4;$$

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}) \text{ dB or } 3 \text{ dB, whichever is less, for } 20 \text{ MHz channel widths with } N_{ANT} \geq 5.$$

If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain..

2.11. Duty cycle

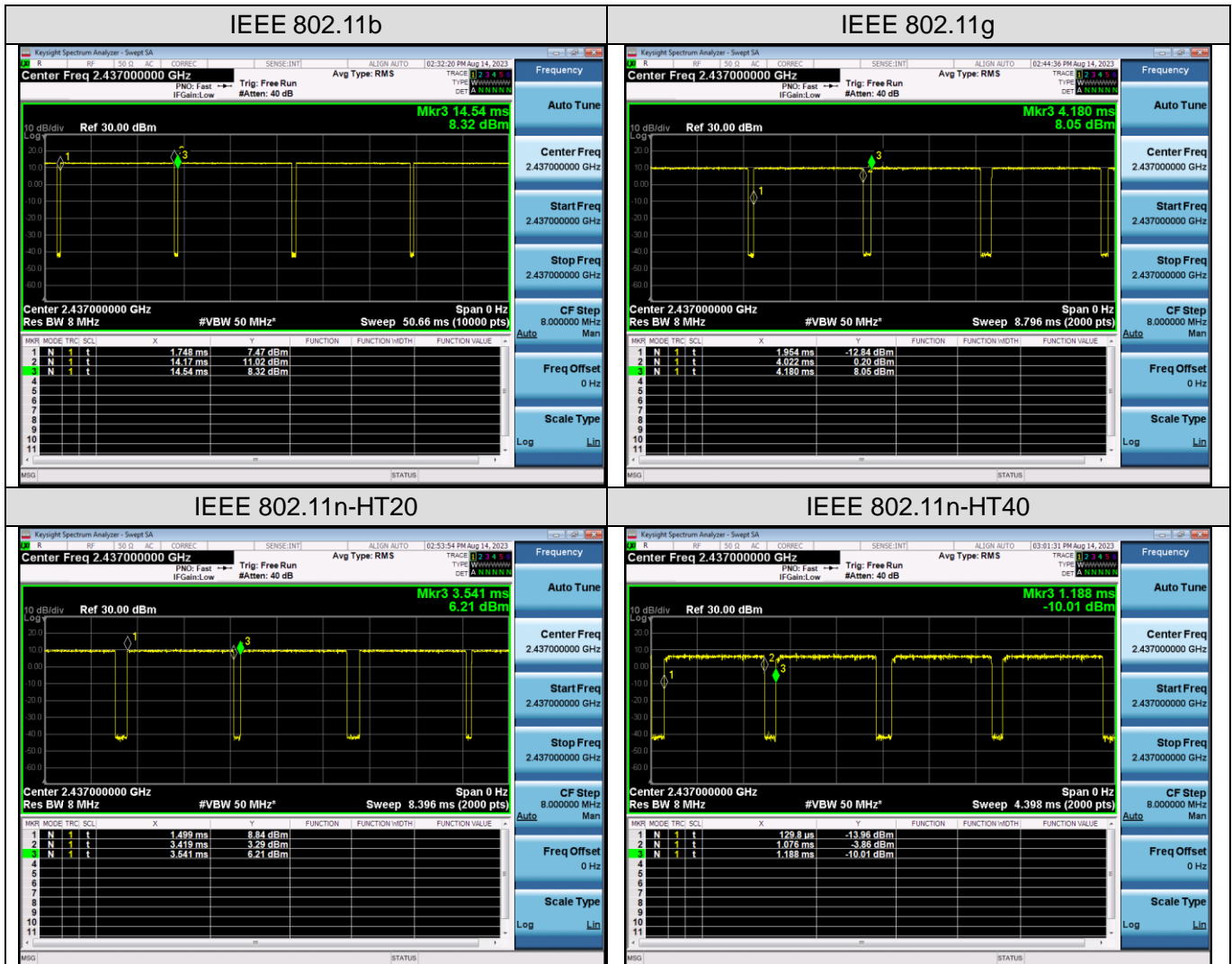
2.4GHz WLAN (DTS) operation is possible in 20MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Operating mode	Data rates (Mbps)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)	Average Factor (dB)
ANT1					
IEEE 802.11b	1	97	0.13	0.08	-0.26
IEEE 802.11g	6	93	0.27	0.52	-0.54
IEEE 802.11n-HT20	MCS0	94	0.13	0.76	-0.26
IEEE 802.11n-HT40	MCS0	89	0.51	1.06	-1.01
ANT2					
IEEE 802.11b	1	97	0.13	0.08	-0.26
IEEE 802.11g	6	95	0.22	0.49	-0.45
IEEE 802.11n-HT20	MCS0	91	0.41	0.52	-0.82
IEEE 802.11n-HT40	MCS0	87	0.60	1.06	-1.21

Remark:

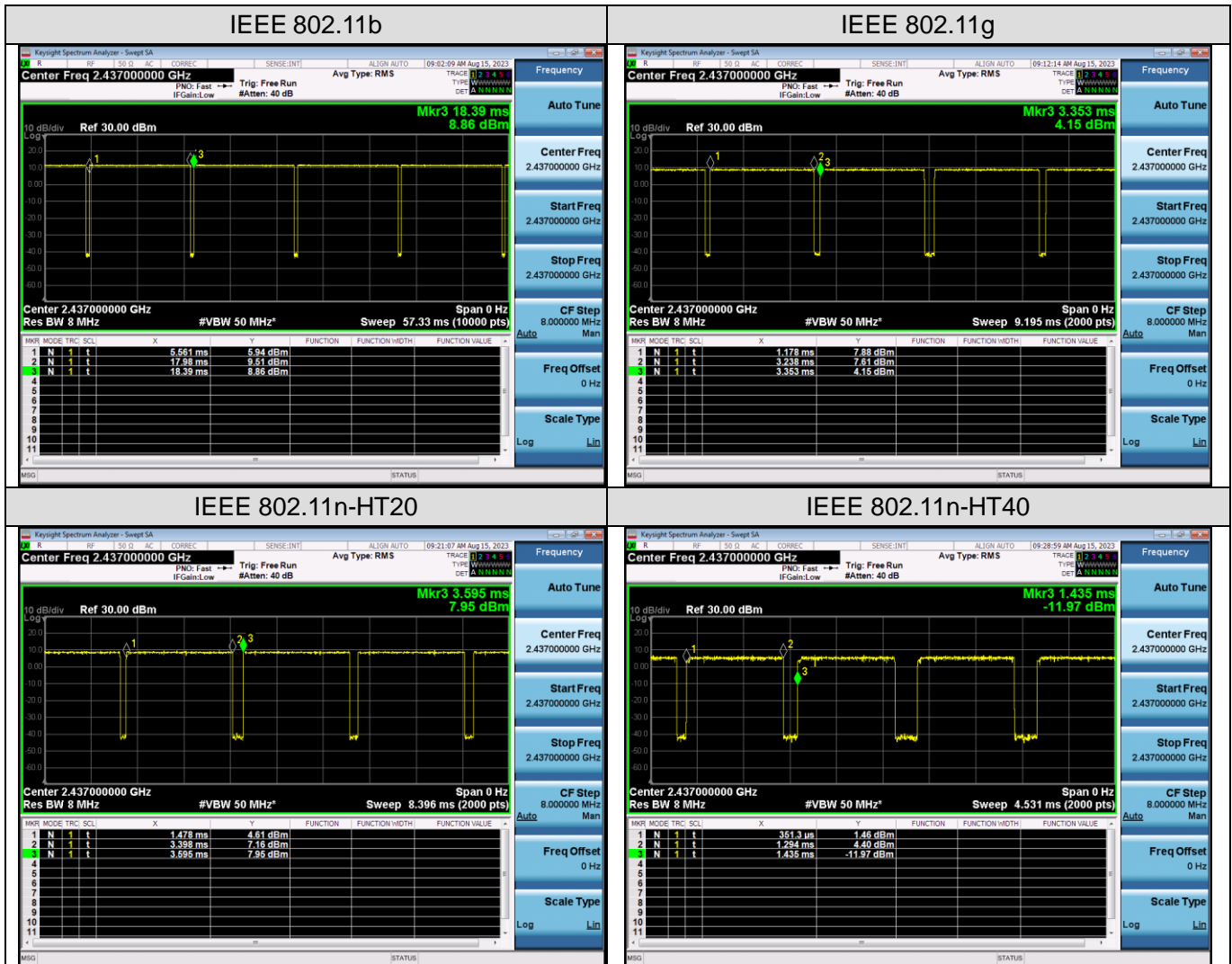
1. Duty Cycle factor = $10 * \log (1/ \text{Duty cycle})$
2. Average factor = $20 \log_{10} \text{Duty Cycle}$
3. The duty cycle of each frequency band mode reflects the determination requirements of the middle channel measurement value
4. The duty cycle coefficient is automatically calculated into the final result by the software.

The test plots as follows:ANT1



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The test plots as follows:ANT2



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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	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
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	$U_c = \pm 2.7 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel transmitting (TX)
2	Middle channel transmitting (TX)
3	High channel transmitting (TX)

Note:

- 1) Transmit by 802.11b with Data rate (1/2/5.5/11)
- 2) Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)
- 3) Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)
- 4) Transmit by 802.11n (40MHz) with Data rate (13.5/27/40.5/54/81/108/121.5/135)
- 5) The test channel for 20MHz bandwidth system is channel 1, 6 and 11.
- 6) The test channel for 40MHz bandwidth system is channel 3, 6 and 9.

Note:

1. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.

Software Setting

```

C:\Windows\System32\cmd.exe - adb shell
rtwpriv wlan0 mp_txpower patha=0,pathb=64
rtwpriv wlan0 mp_rate 160
rtwpriv wlan0 mp_ctx count=%100,pkt rtwpriv wlan0 mp_start
rtwpriv wlan0 mp_channel 155
rtwpriv wlan0 mp_bandwidth 40M=2,shortGI=0
rtwpriv wlan0 mp_ant_tx b
rtwpriv wlan0 mp_txpower patha=0,pathb=64
rtwpriv wlan0 mp_rate 160
wlan0 mp_start:mp_start ok

m6:/ # rtwpriv wlan0 mp_channel 155
wlan0 mp_channel:Change channel 159 to channel 155
m6:/ # rtwpriv wlan0 mp_bandwidth 40M=2,shortGI=0
wlan0 mp_bandwidth:Change BW 1 to BW 2

m6:/ # rtwpriv wlan0 mp_ant_tx b
wlan0 mp_ant_tx:switch Tx antenna to b
m6:/ # rtwpriv wlan0 mp_txpower patha=0,pathb=64
wlan0 mp_txpower:Set power level path_A:0 path_B:64 path_C:0 path_D:0
m6:/ # rtwpriv wlan0 mp_rate 160
wlan0 mp_rate:Set data rate to 160 index 44
m6:/ #
rtwpriv wlan0 mp_ctx count=%100,pkt
wlan0 mp_ctx:
Start continuous DA=ffffffff len=1500 count=0

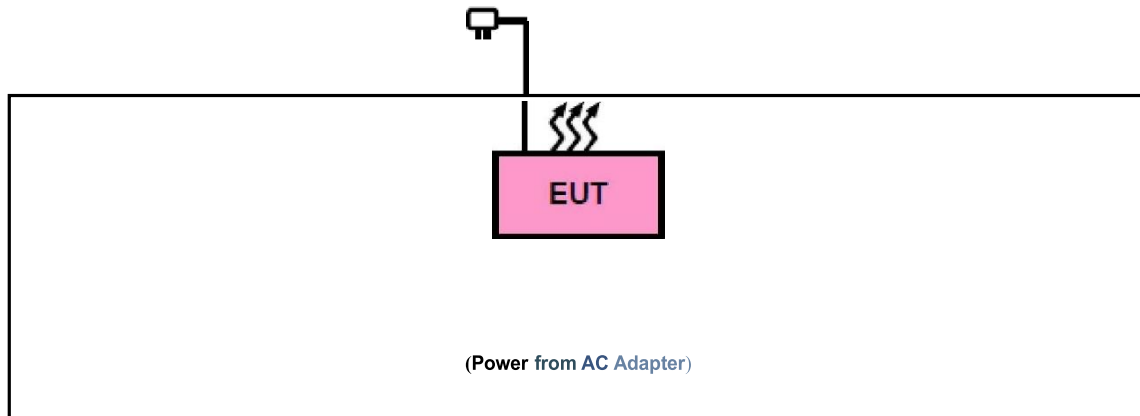
m6:/ # rtwpriv wlan0 mp_ctx stop
rtwpriv wlan0 mp_ctx stop
wlan0 mp_ctx:Stop continuous Tx
m6:/ #

```

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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.	Identifier	Note
1	Portable Smart Projector 1080P	VA-SP009	2A94QVA-SP009	EUT
2	Cable	N/A	N/A	AE
3	Remote Controller	N/A	N/A	AE
4	Adapter	S-TR-149D	Input: AC 100-240V,50-60Hz 1.5A Max Output: PD: 5V, 3A; 9V,3A; 12V,3A; 15V,4A; 20V,3.25A; Total: 65W Max	AE

5.3. SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(1)	RF Output Power	Pass
3	§15.247 (a)(1)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
4	§15.247 (d)	Conducted Spurious Emission	Pass
5	§15.209	Radiated Emission& Band Edge	Pass
6	§15.207	AC Power Line Conducted Emission	Pass

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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	Jun. 03, 2023	Jun. 02, 2024
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	Jun. 01, 2023	May 31, 2024
Power sensor	Aglient	U2021XA	MY54110007	Mar. 03, 2023	Mar. 02, 2024
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Jun. 01, 2023	May 31, 2024
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	Mar. 23, 2023	Mar. 22, 2024
Broadband Preamplifier	ETS LINDGREN	3117-PA	00246148	Aug. 04, 2022	Aug. 03, 2024
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 05, 2023	Jan. 04, 2025
Test software	FARA	EZ-EMC (Ver.RA-03A)	N/A	N/A	N/A

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7. RF OUTPUT POWER MEASUREMENT

7.1 MEASUREMENT LIMITS

For DTSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

7.2 MEASUREMENT PROCEDURE

1. Connect EUT RF output port to power sensor
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. Set the gated average detector for average power measurement and peak detector for peak power measurement.
5. Record the maximum power from the software.

Note :

The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

7.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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7.4 MEASUREMENT RESULT

Test Data of Conducted Output Power-ANT 1					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	14.29	16.72	≤30	Pass
	2437	13.98	16.50	≤30	Pass
	2462	13.75	16.29	≤30	Pass
802.11g	2412	12.86	20.56	≤30	Pass
	2437	12.78	20.30	≤30	Pass
	2462	12.36	19.73	≤30	Pass
802.11n20	2412	13.00	20.47	≤30	Pass
	2437	12.55	20.21	≤30	Pass
	2462	12.34	19.55	≤30	Pass
802.11n40	2422	13.11	20.49	≤30	Pass
	2437	12.70	20.37	≤30	Pass
	2452	12.05	19.91	≤30	Pass

Test Data of Conducted Output Power-ANT 2					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	12.99	15.58	≤30	Pass
	2437	12.64	15.13	≤30	Pass
	2462	11.94	14.70	≤30	Pass
802.11g	2412	12.17	19.85	≤30	Pass
	2437	11.65	19.29	≤30	Pass
	2462	11.05	18.70	≤30	Pass
802.11n20	2412	12.56	19.87	≤30	Pass
	2437	12.00	19.23	≤30	Pass
	2462	11.16	18.71	≤30	Pass
802.11n40	2422	12.86	19.96	≤30	Pass
	2437	12.12	19.54	≤30	Pass
	2452	12.76	19.02	≤30	Pass

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Test Data of Conducted Output Power-MIMO					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	2412	15.80	23.19	≤ 30	Pass
	2437	15.29	22.76	≤ 30	Pass
	2462	14.80	22.16	≤ 30	Pass
802.11n40	2422	16.00	23.24	≤ 30	Pass
	2437	15.43	22.99	≤ 30	Pass
	2452	15.43	22.50	≤ 30	Pass

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8. 6DB BANDWIDTH MEASUREMENT

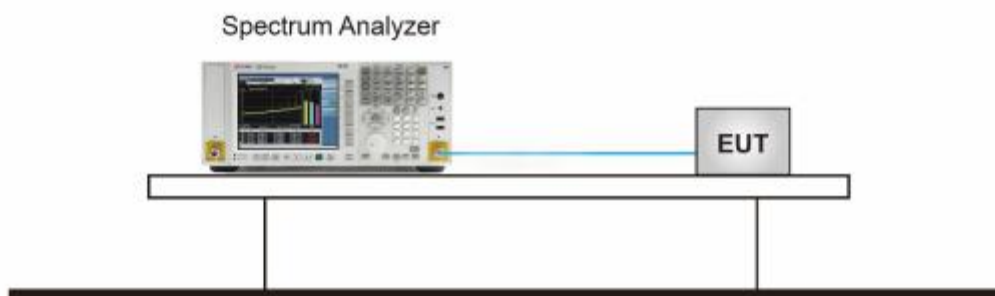
8.1 MEASUREMENT LIMITS

The minimum 6 dB bandwidth shall be 500 kHz.

8.2 MEASUREMENT PROCEDURE

- 1) The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
- 2) The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 3) Set to the maximum power setting and enable the EUT transmit continuously.
- 4) For 6dB Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement.
- 5) For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
- 6) Detector = peak
- 7) Trace mode = max hold.
- 8) Sweep = auto couple.
- 9) Allow the trace to stabilize.
- 10) Measure and record the results in the test report.

8.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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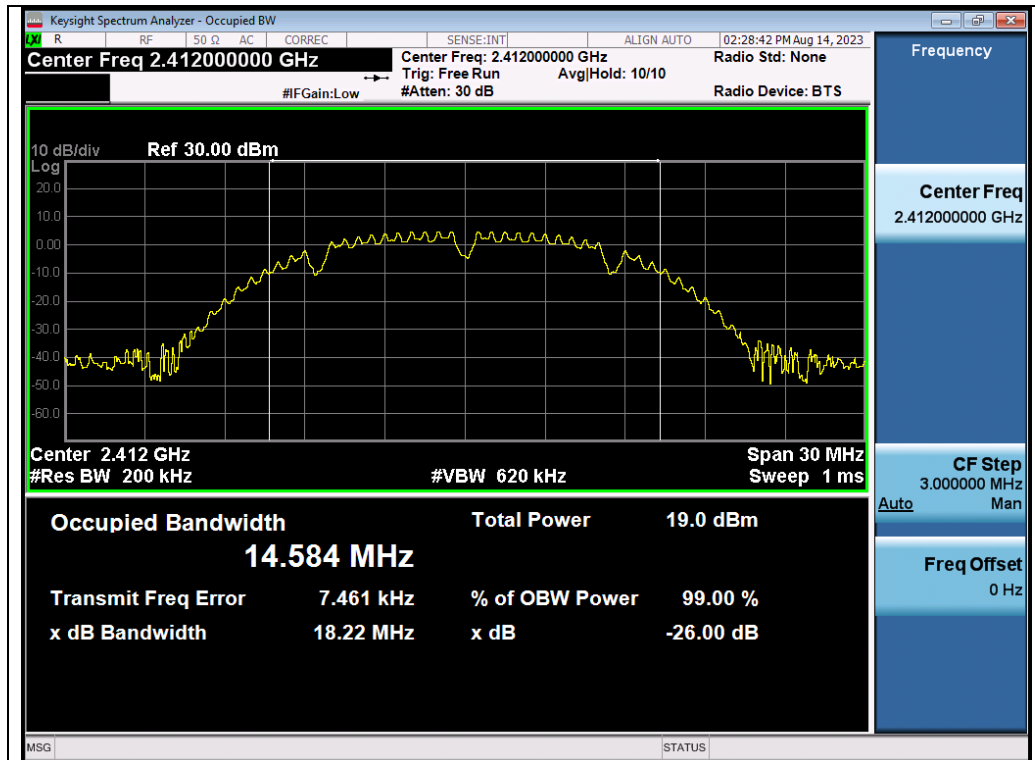
8.4 MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and DTS Bandwidth-ANT 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	-6dB Bandwidth (MHz)Limits	Pass or Fail
802.11b	2412	14.584	10.094	≥0.5	Pass
	2437	14.576	10.108	≥0.5	Pass
	2462	14.655	10.100	≥0.5	Pass
802.11g	2412	16.395	16.276	≥0.5	Pass
	2437	16.404	16.037	≥0.5	Pass
	2462	16.423	15.796	≥0.5	Pass
802.11n20	2412	17.570	16.777	≥0.5	Pass
	2437	17.593	16.927	≥0.5	Pass
	2462	17.568	16.284	≥0.5	Pass
802.11n40	2422	36.040	35.146	≥0.5	Pass
	2437	36.052	35.139	≥0.5	Pass
	2452	36.079	35.133	≥0.5	Pass

Test Data of Occupied Bandwidth and DTS Bandwidth-ANT 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	-6dB Bandwidth (MHz)Limits	Pass or Fail
802.11b	2412	14.562	10.095	≥0.5	Pass
	2437	14.549	10.093	≥0.5	Pass
	2462	14.566	10.115	≥0.5	Pass
802.11g	2412	16.395	16.291	≥0.5	Pass
	2437	16.425	15.714	≥0.5	Pass
	2462	16.442	15.549	≥0.5	Pass
802.11n20	2412	17.603	16.766	≥0.5	Pass
	2437	17.554	16.039	≥0.5	Pass
	2462	17.586	16.529	≥0.5	Pass
802.11n40	2422	36.034	35.896	≥0.5	Pass
	2437	36.107	35.445	≥0.5	Pass
	2452	36.133	35.152	≥0.5	Pass

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Test Graphs of Occupied Bandwidth



Test_Graph_802.11b_ANT1_2412_1Mbps_OBW



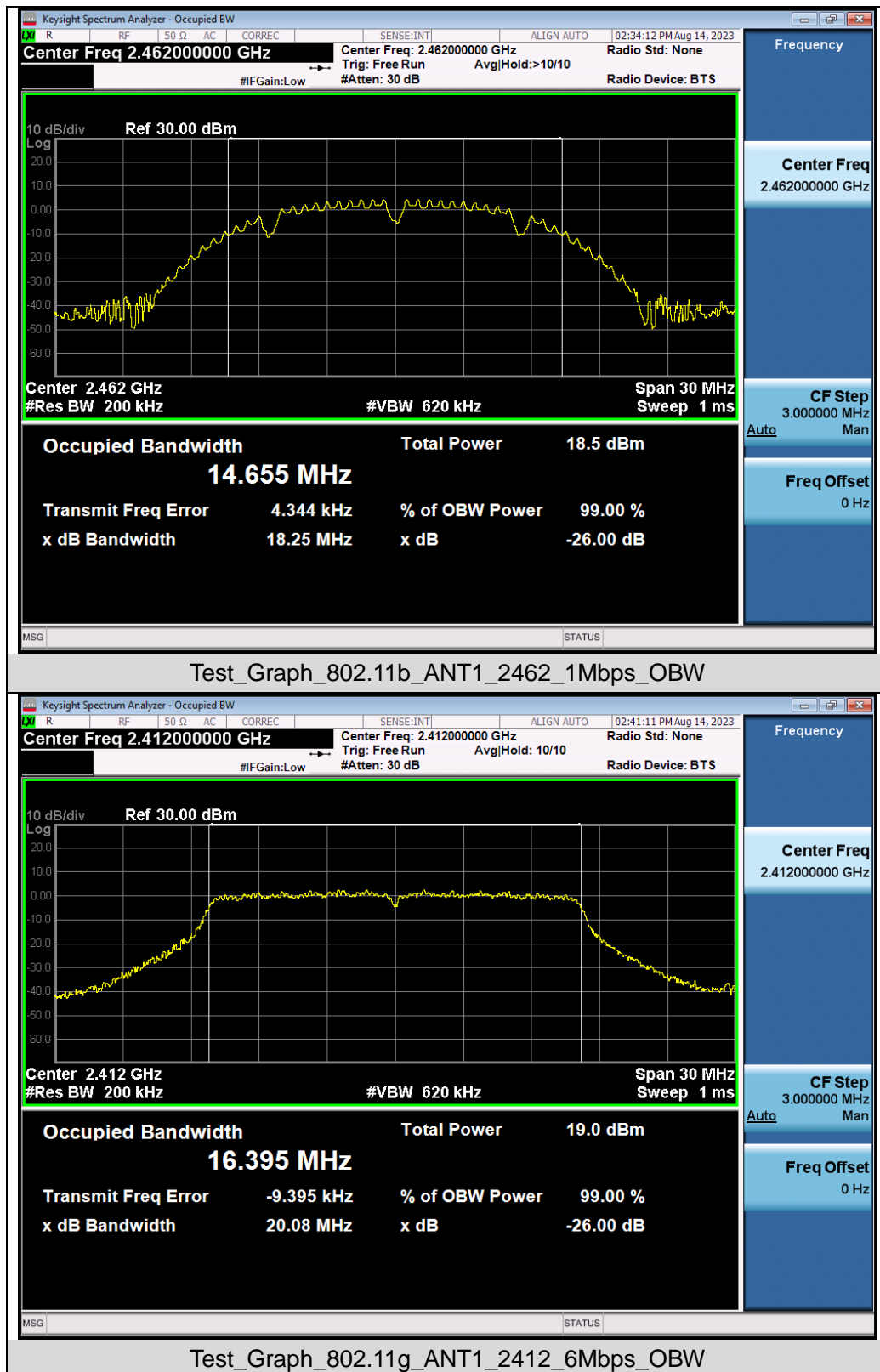
Test_Graph_802.11b_ANT1_2437_1Mbps_OBW

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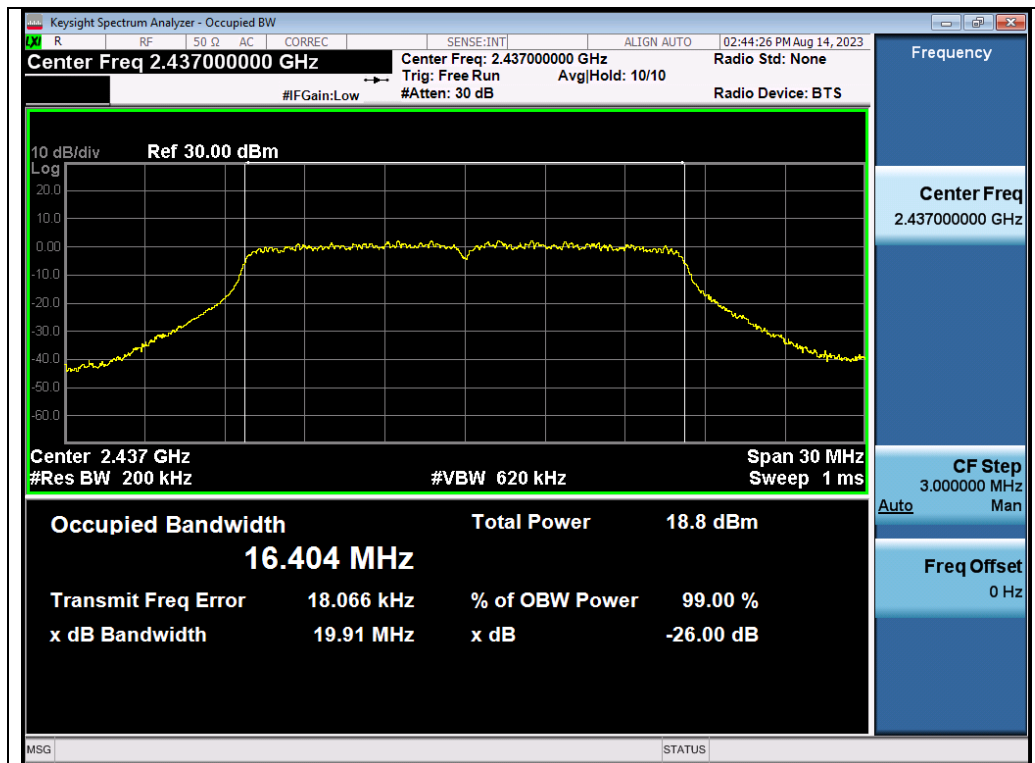
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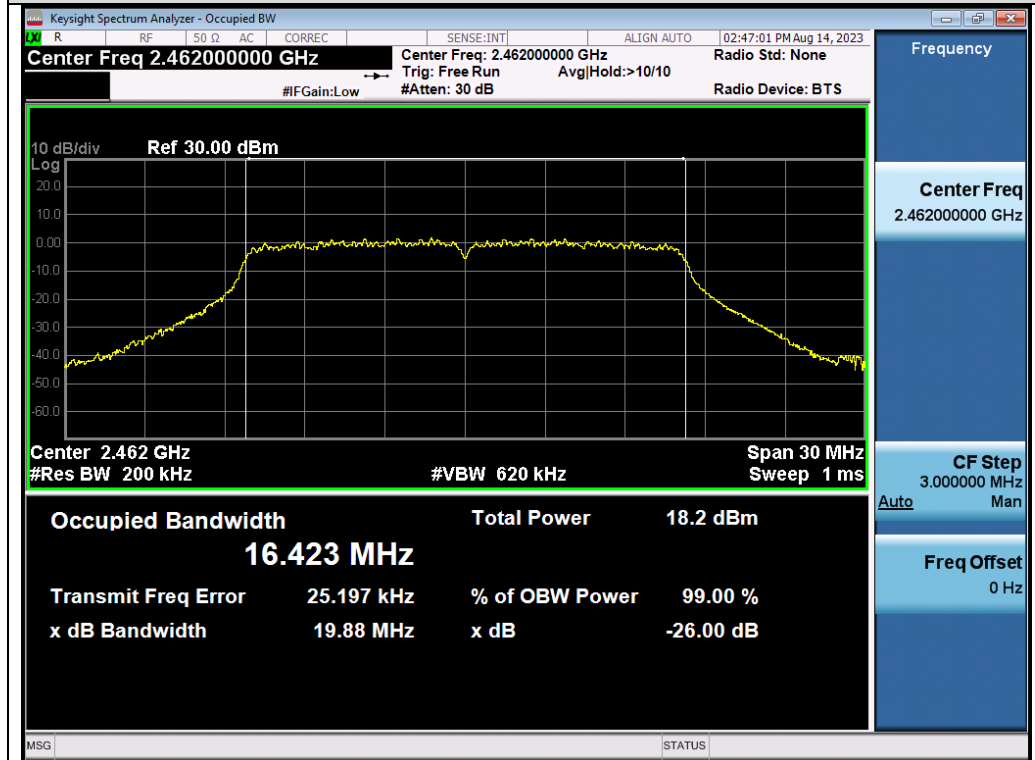


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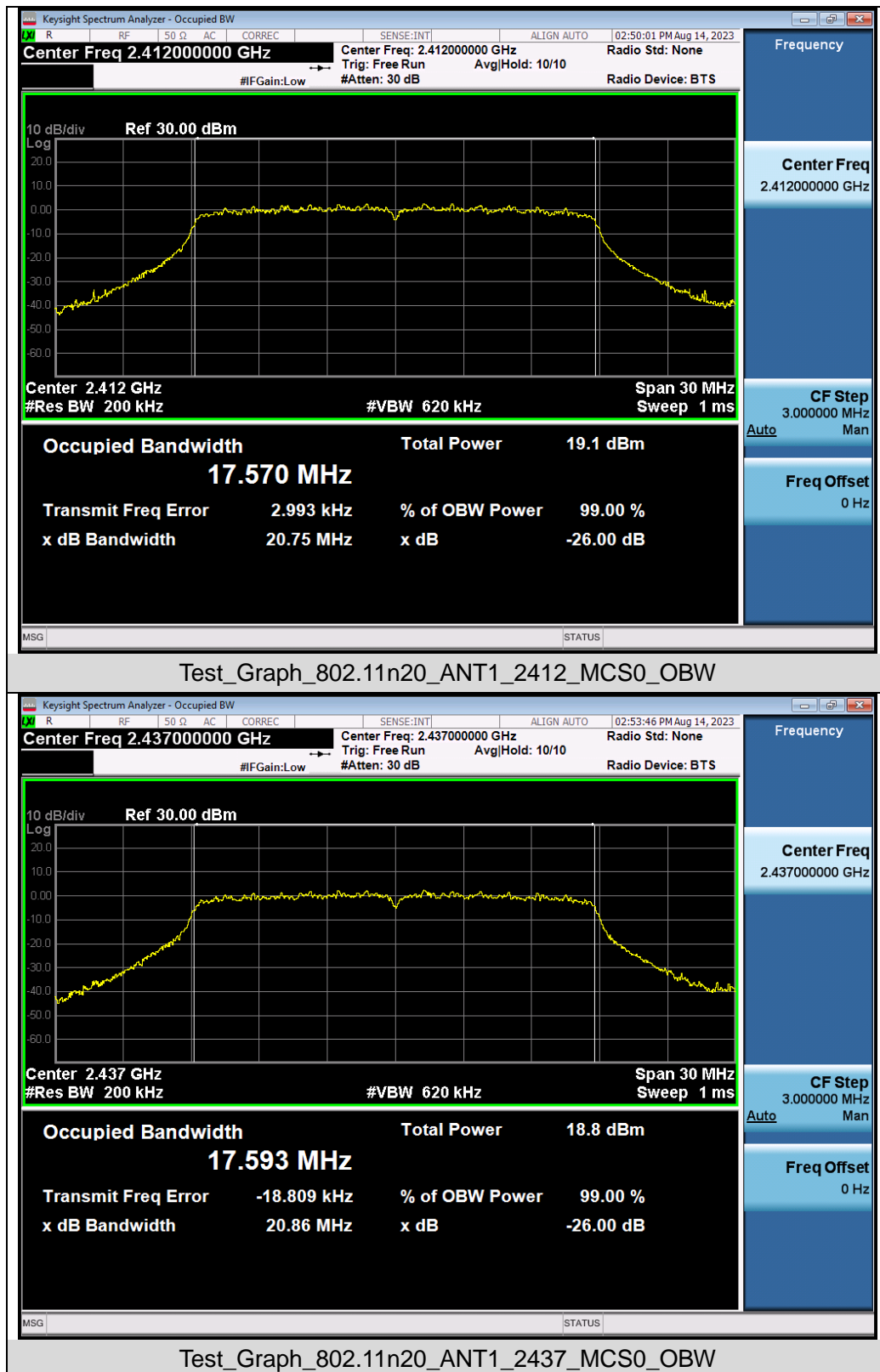


Test_Graph_802.11g_ANT1_2437_6Mbps_OBW

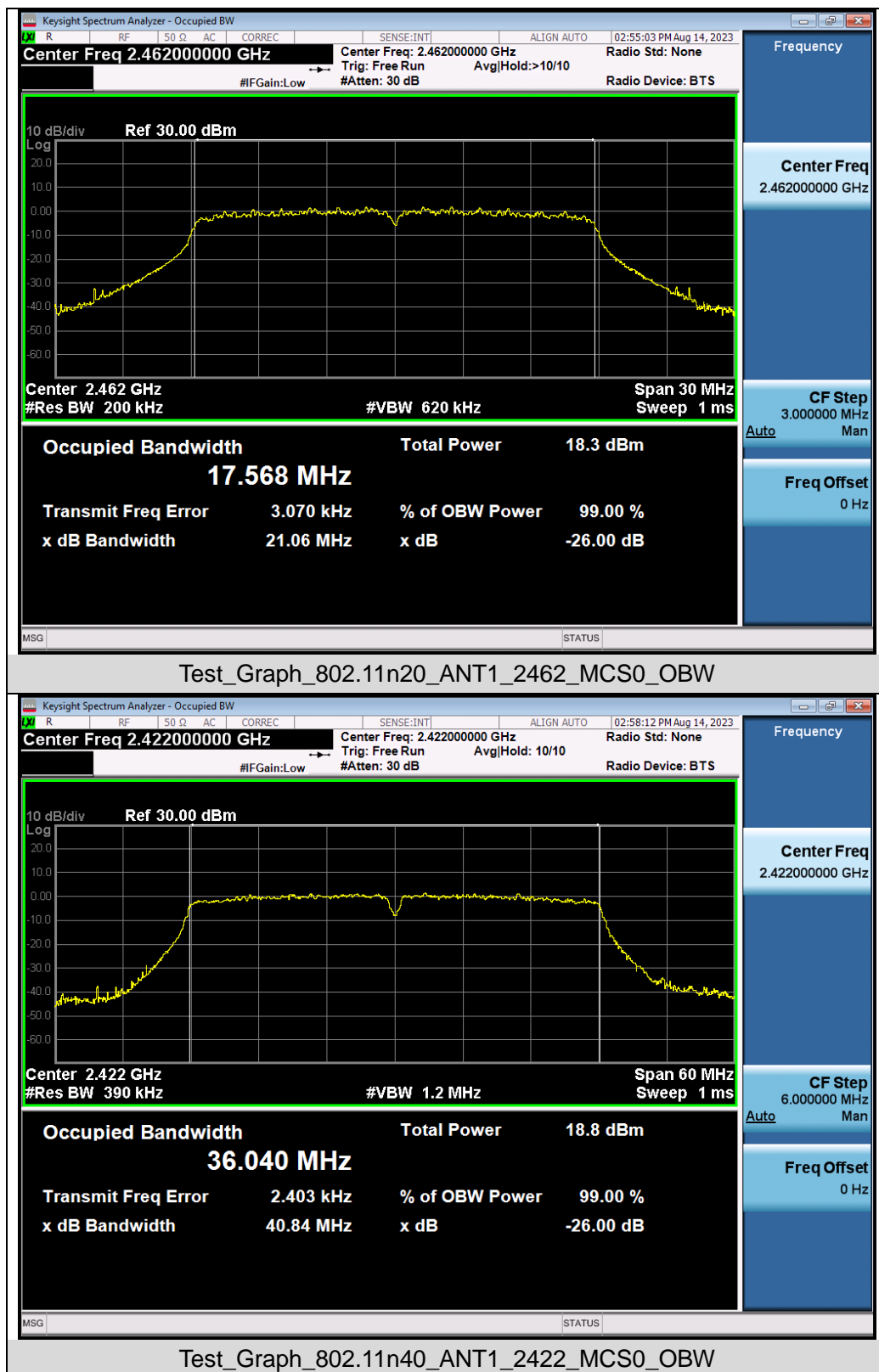


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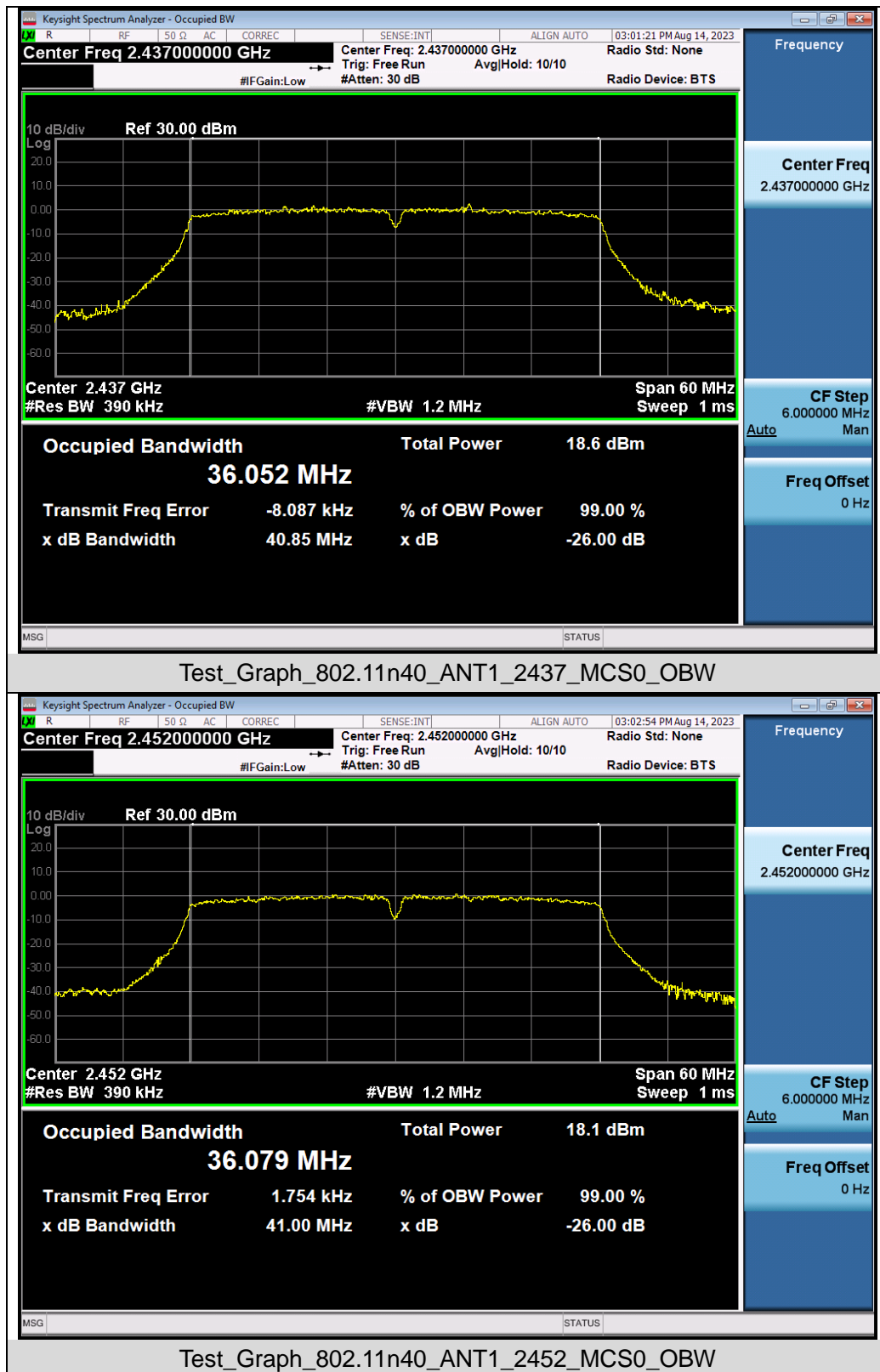
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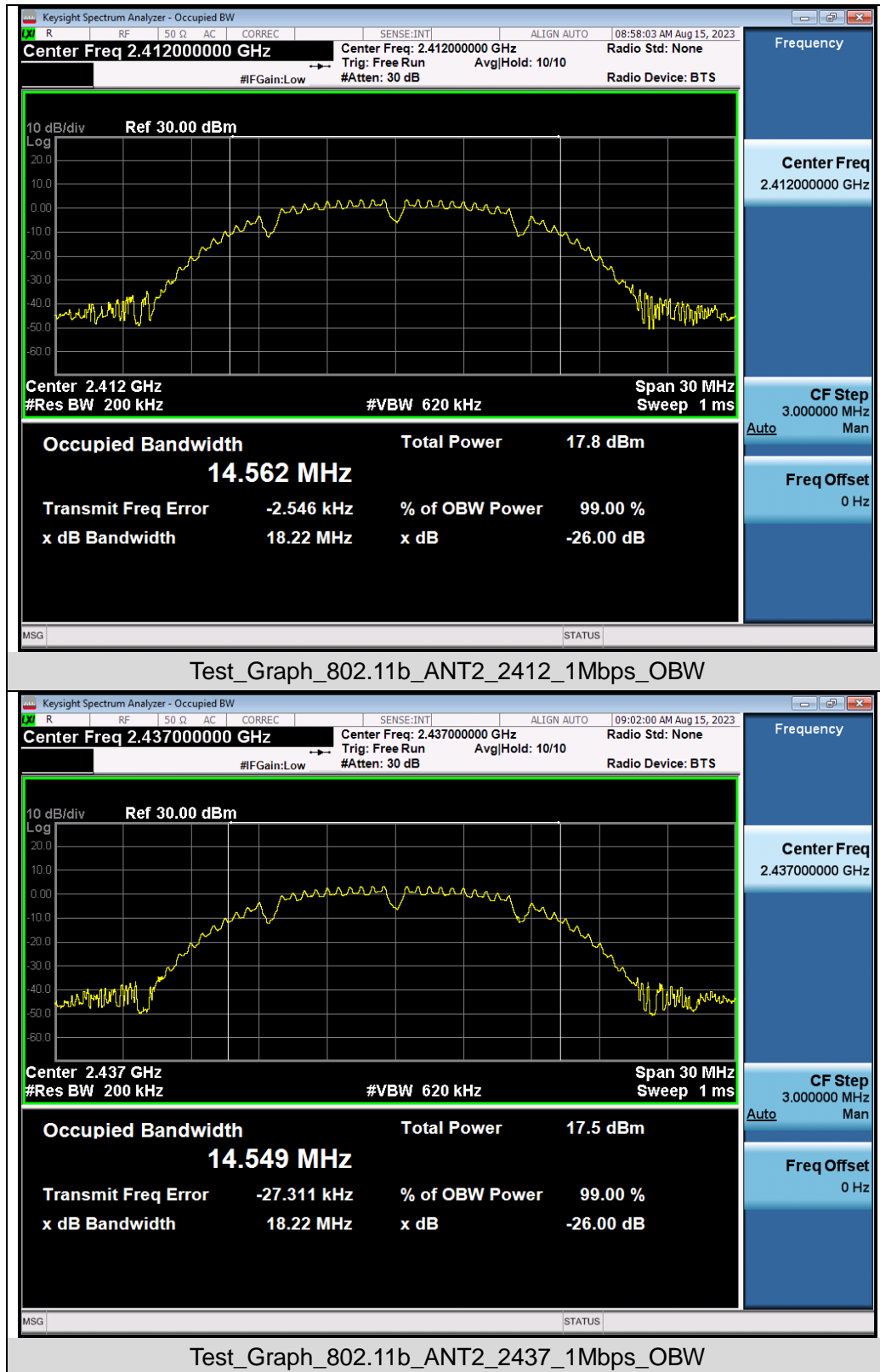
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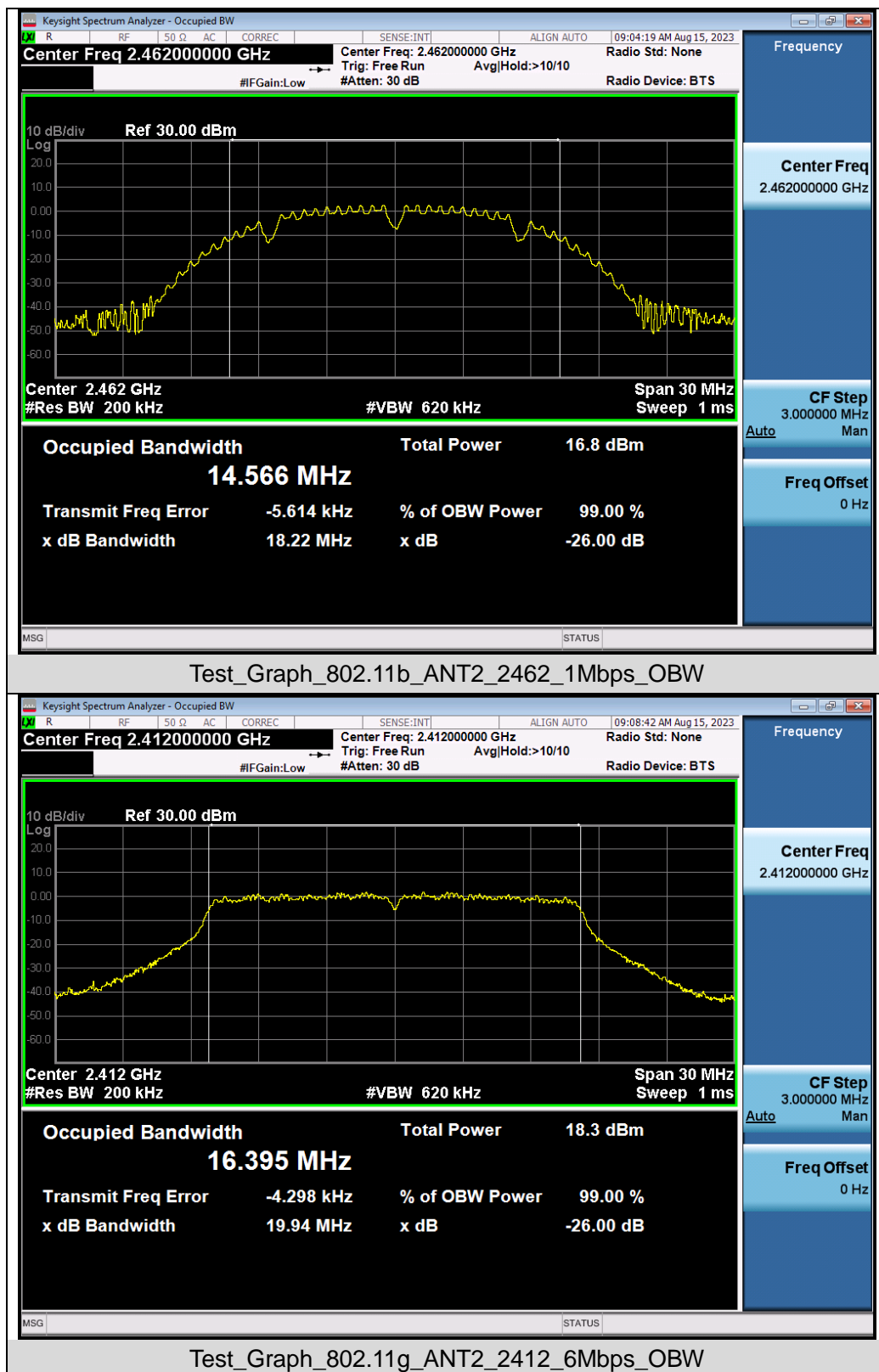


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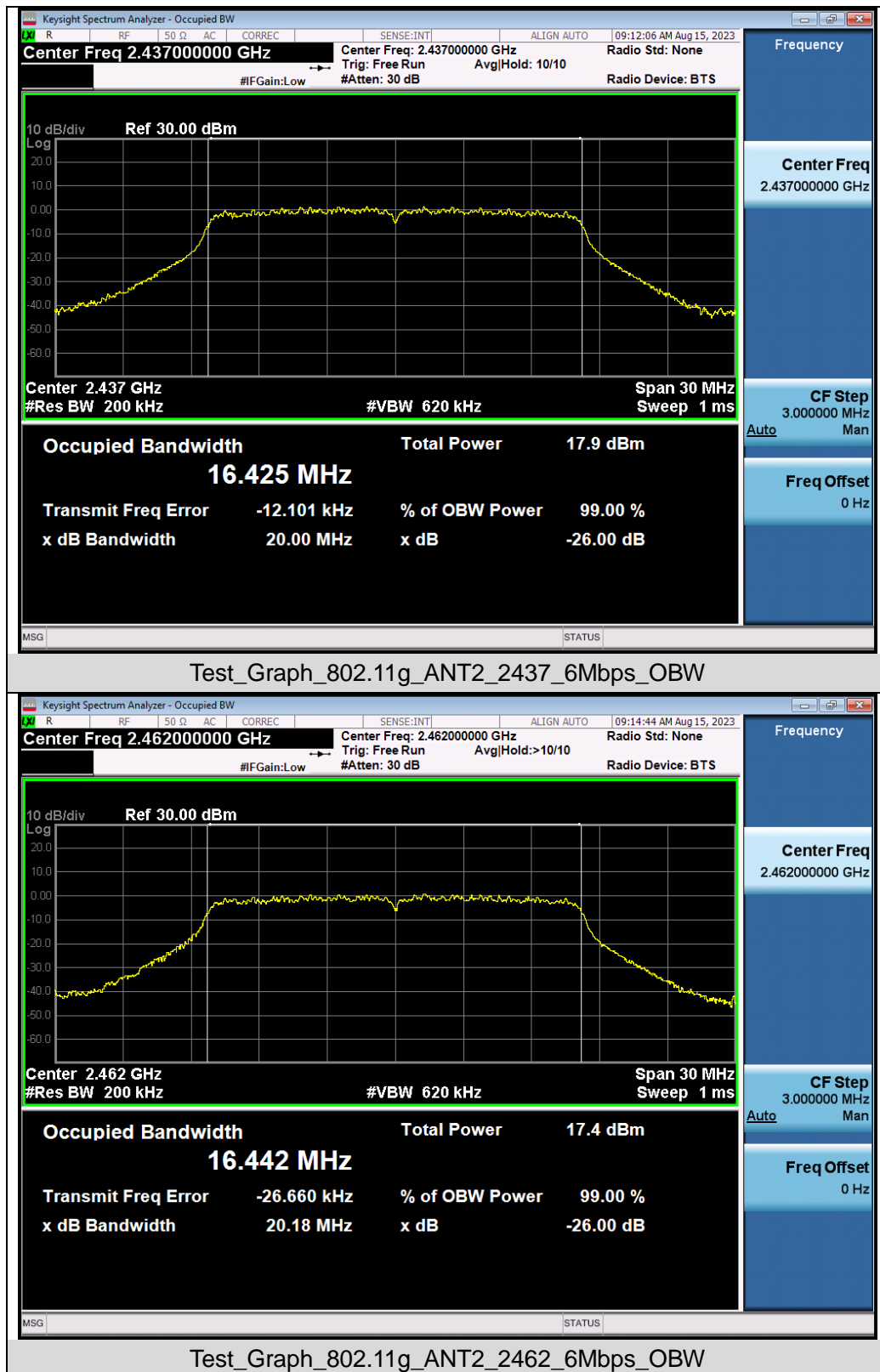
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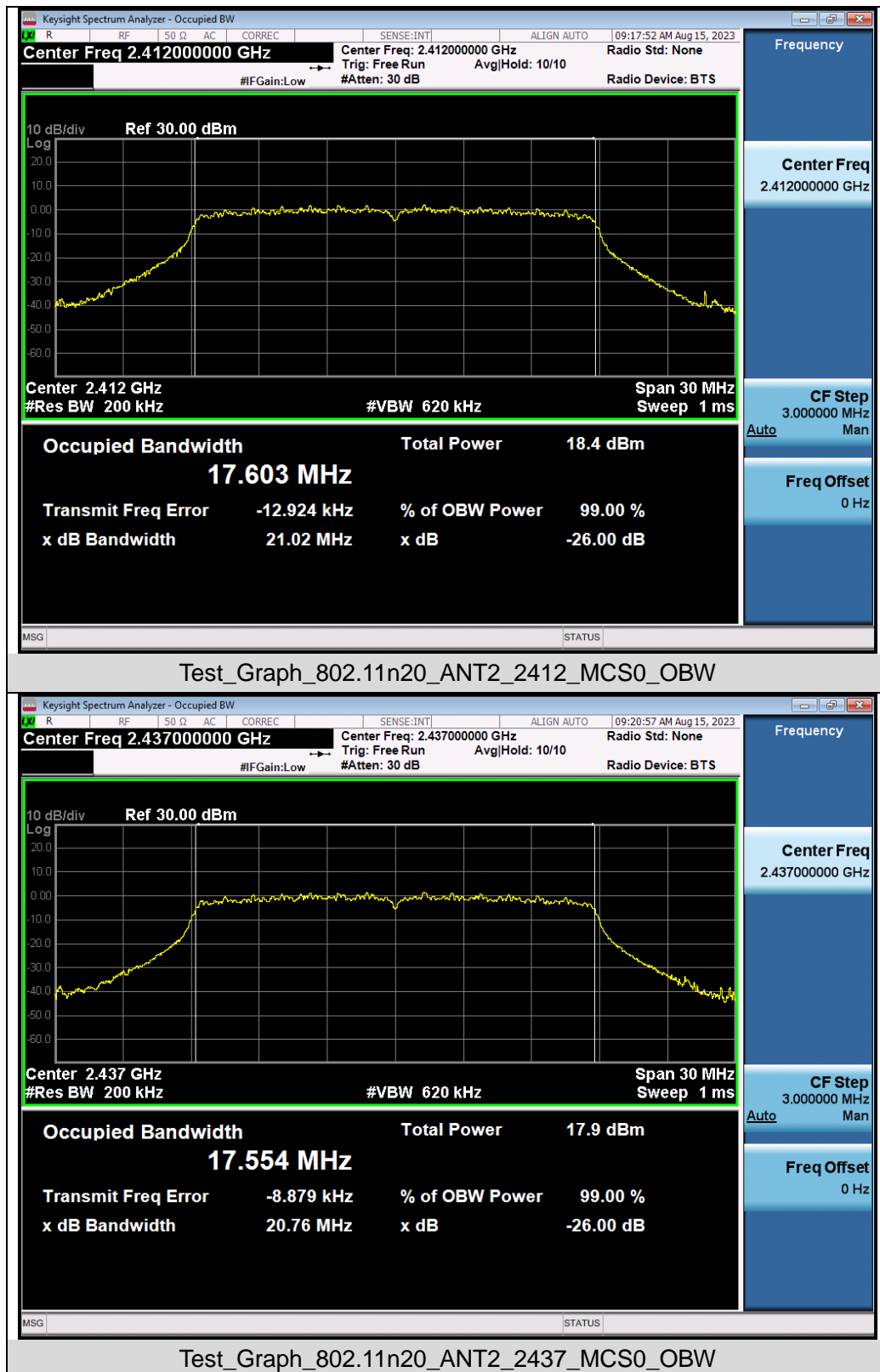
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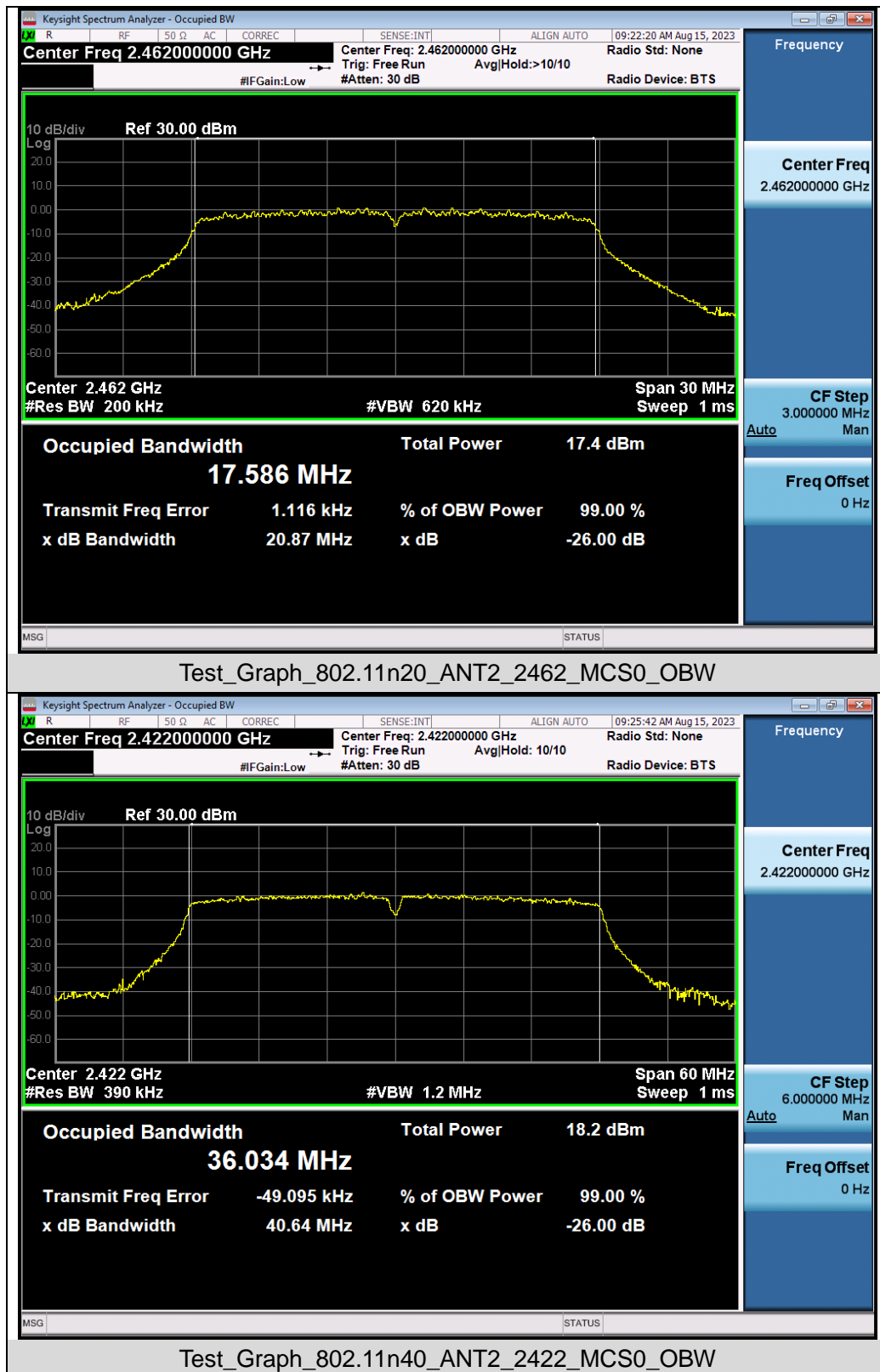
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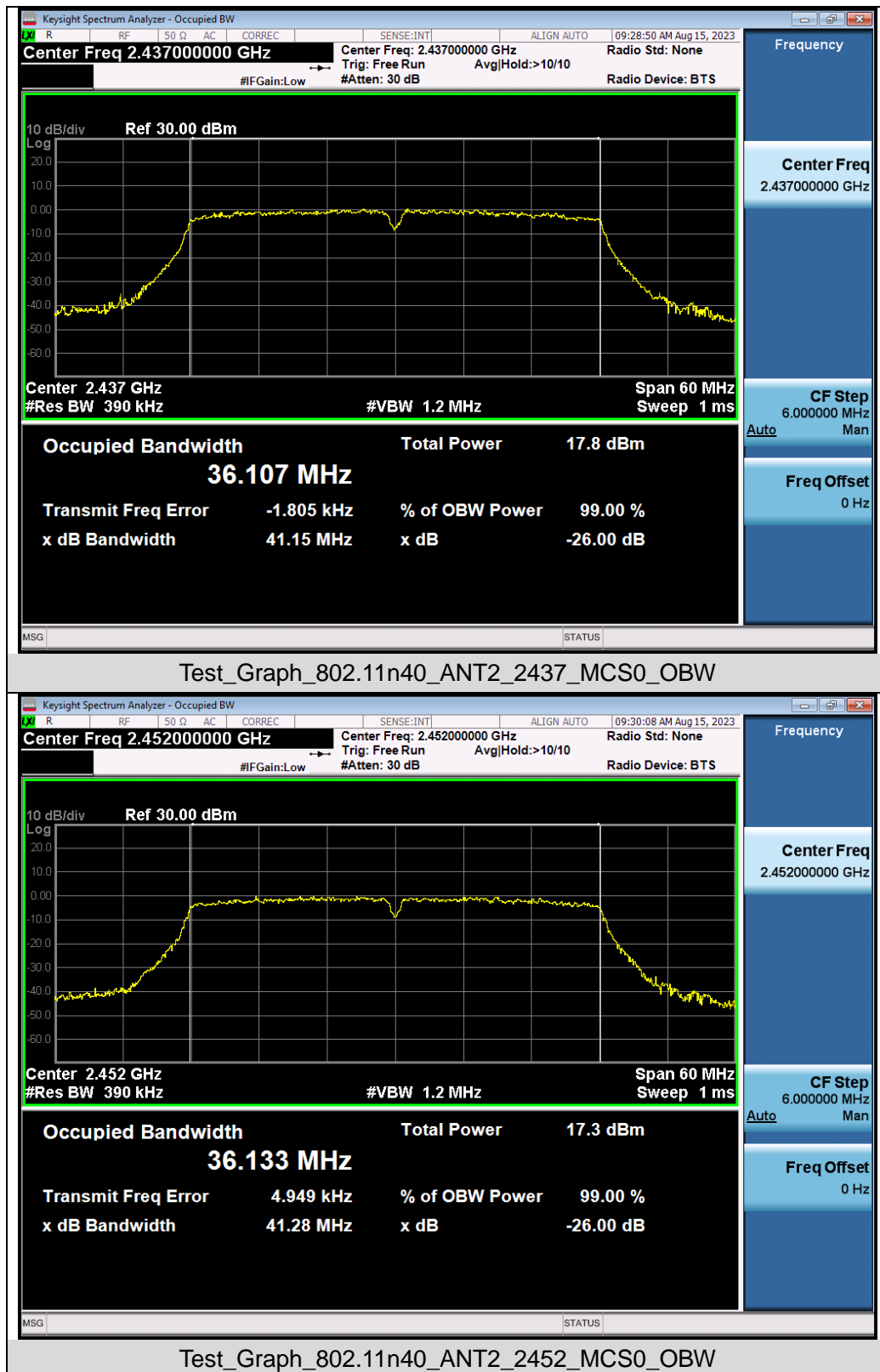
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Test Graphs of DTS Bandwidth

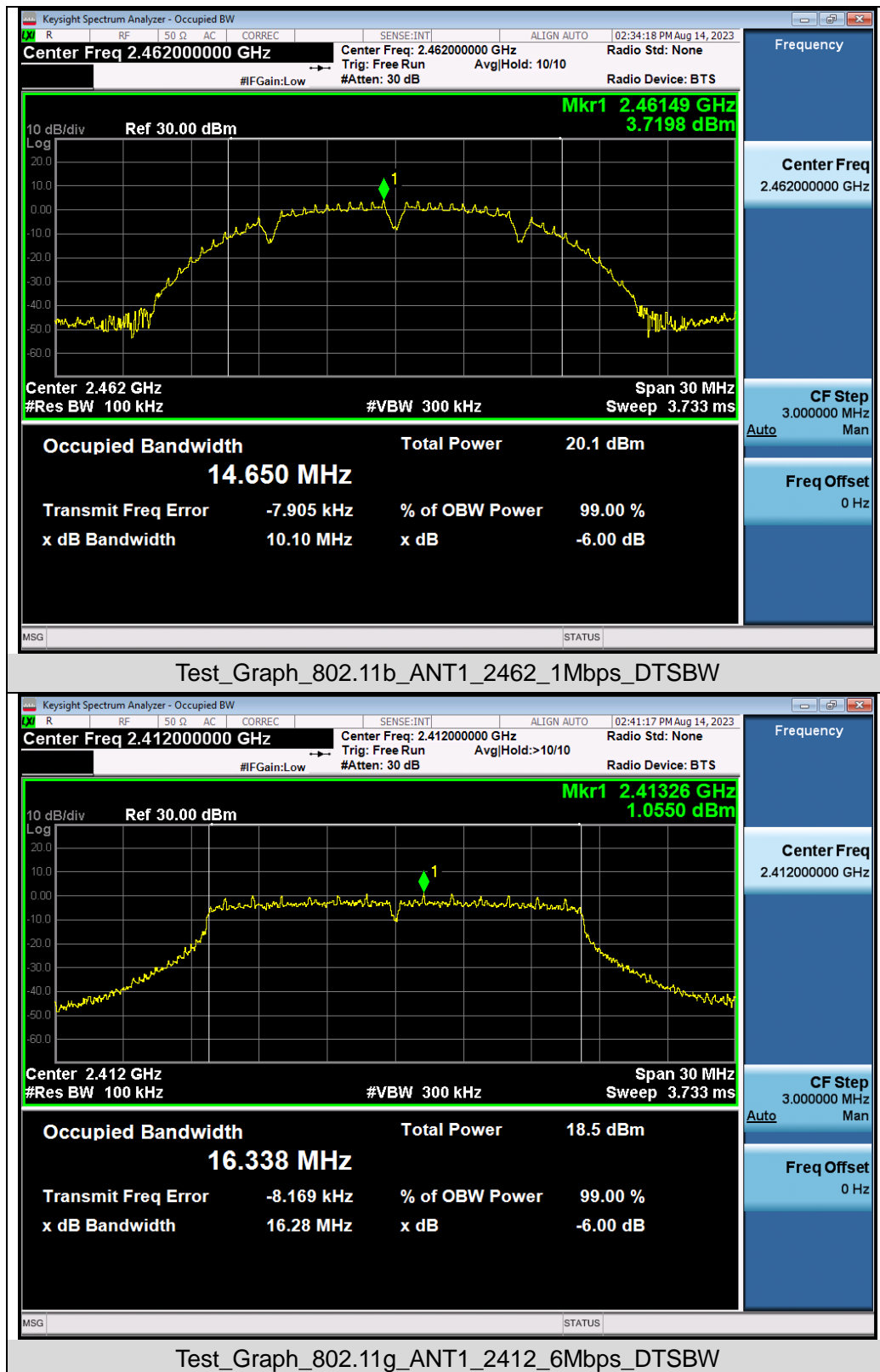


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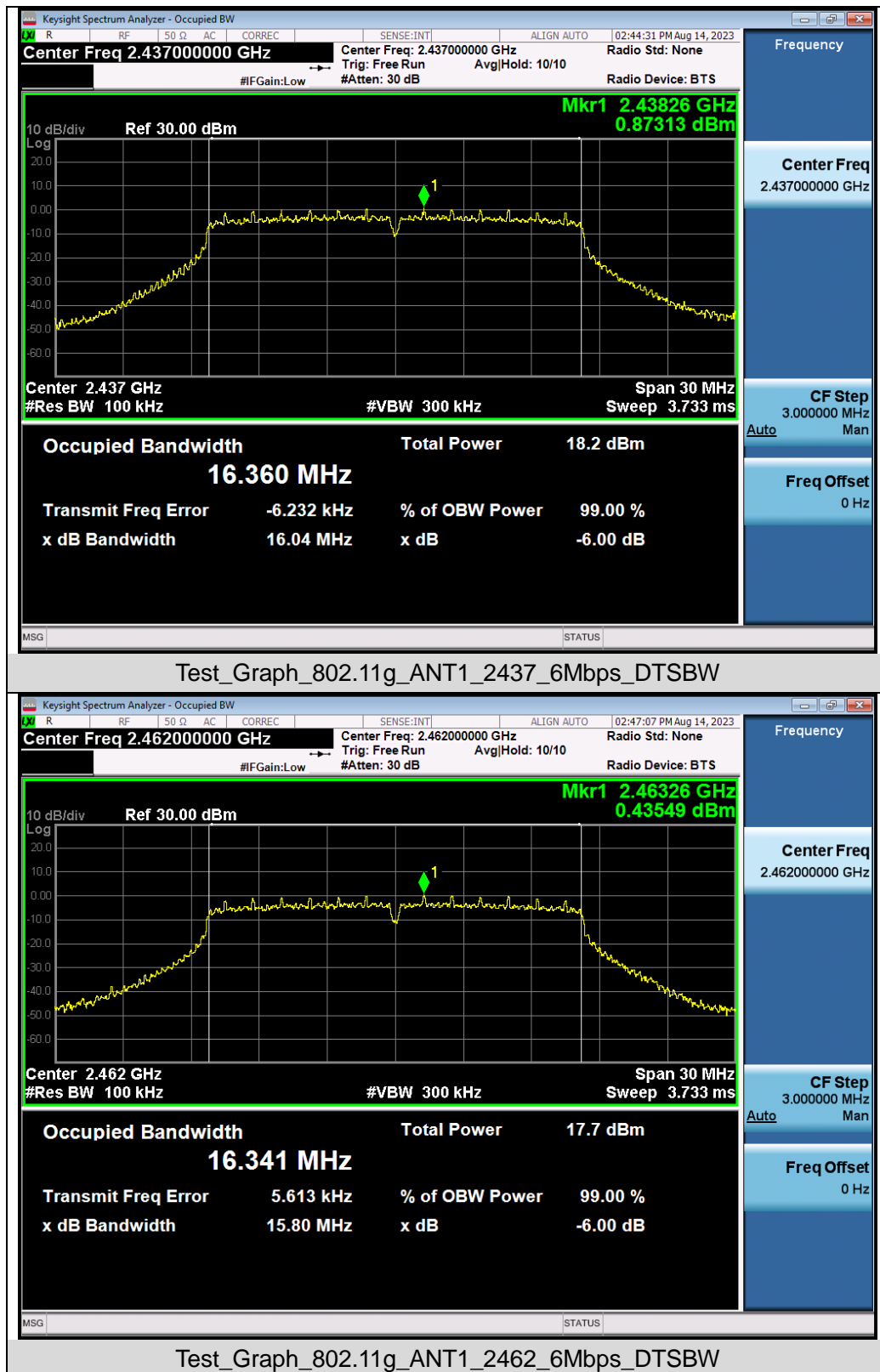


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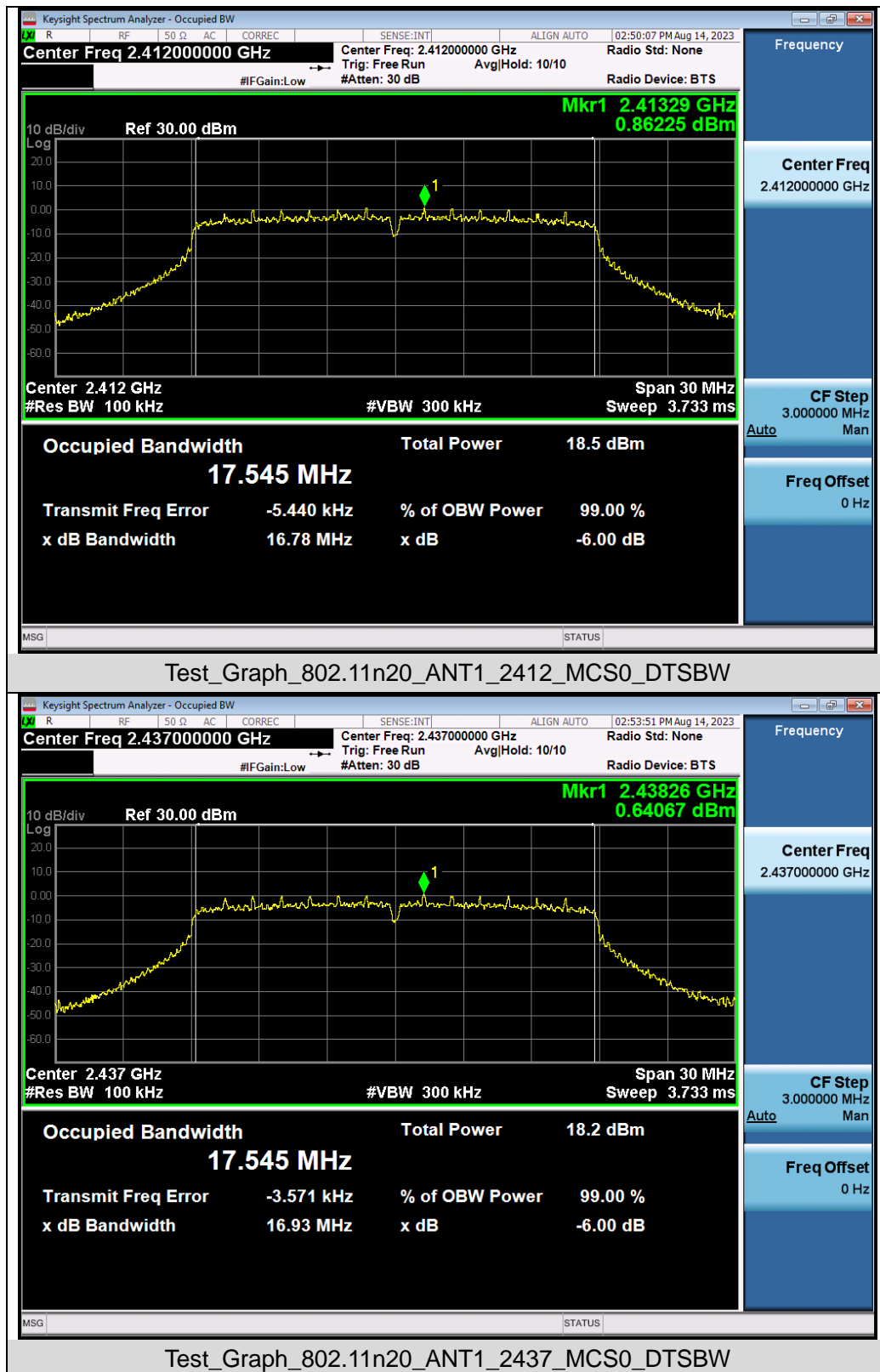
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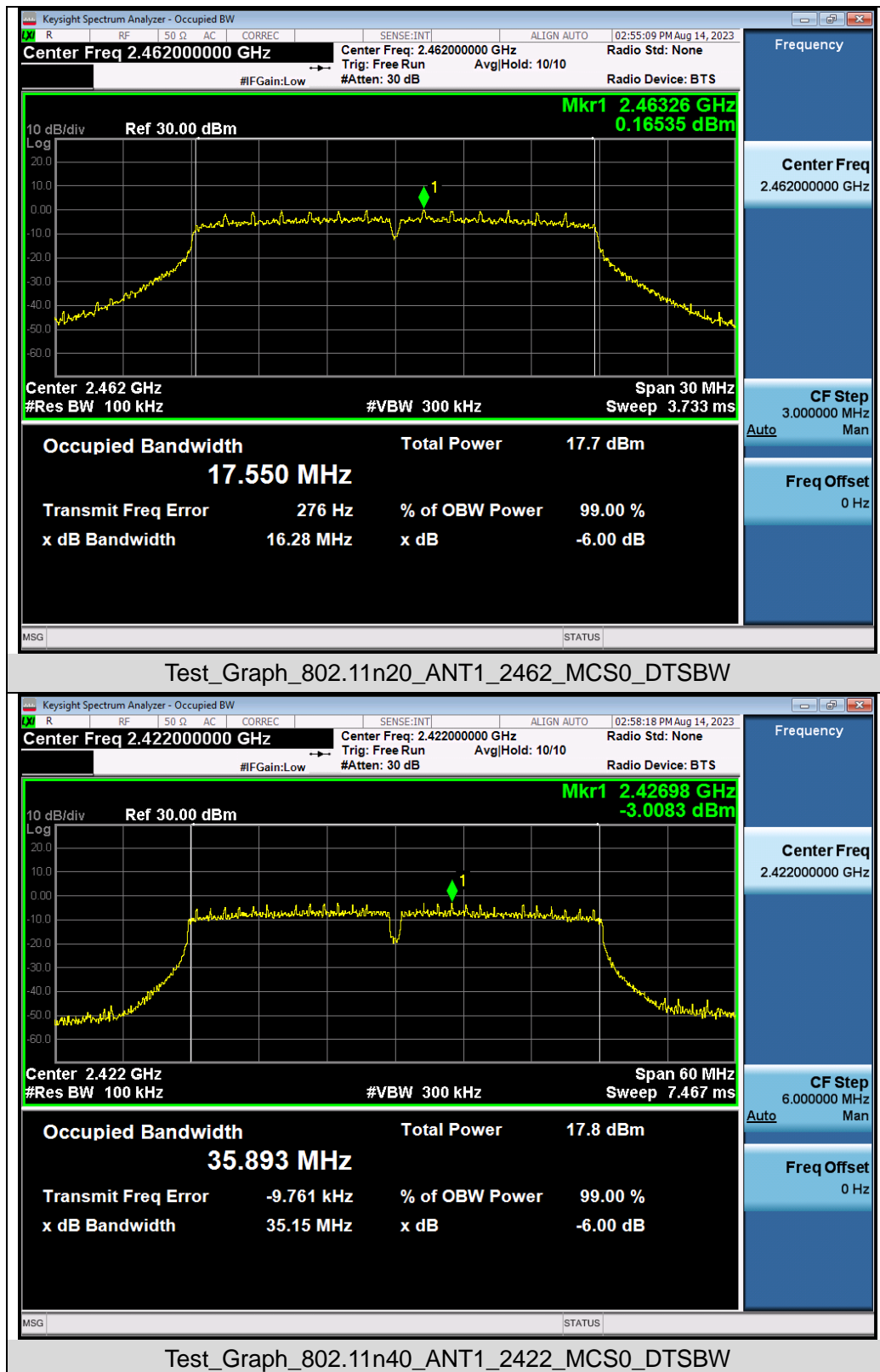
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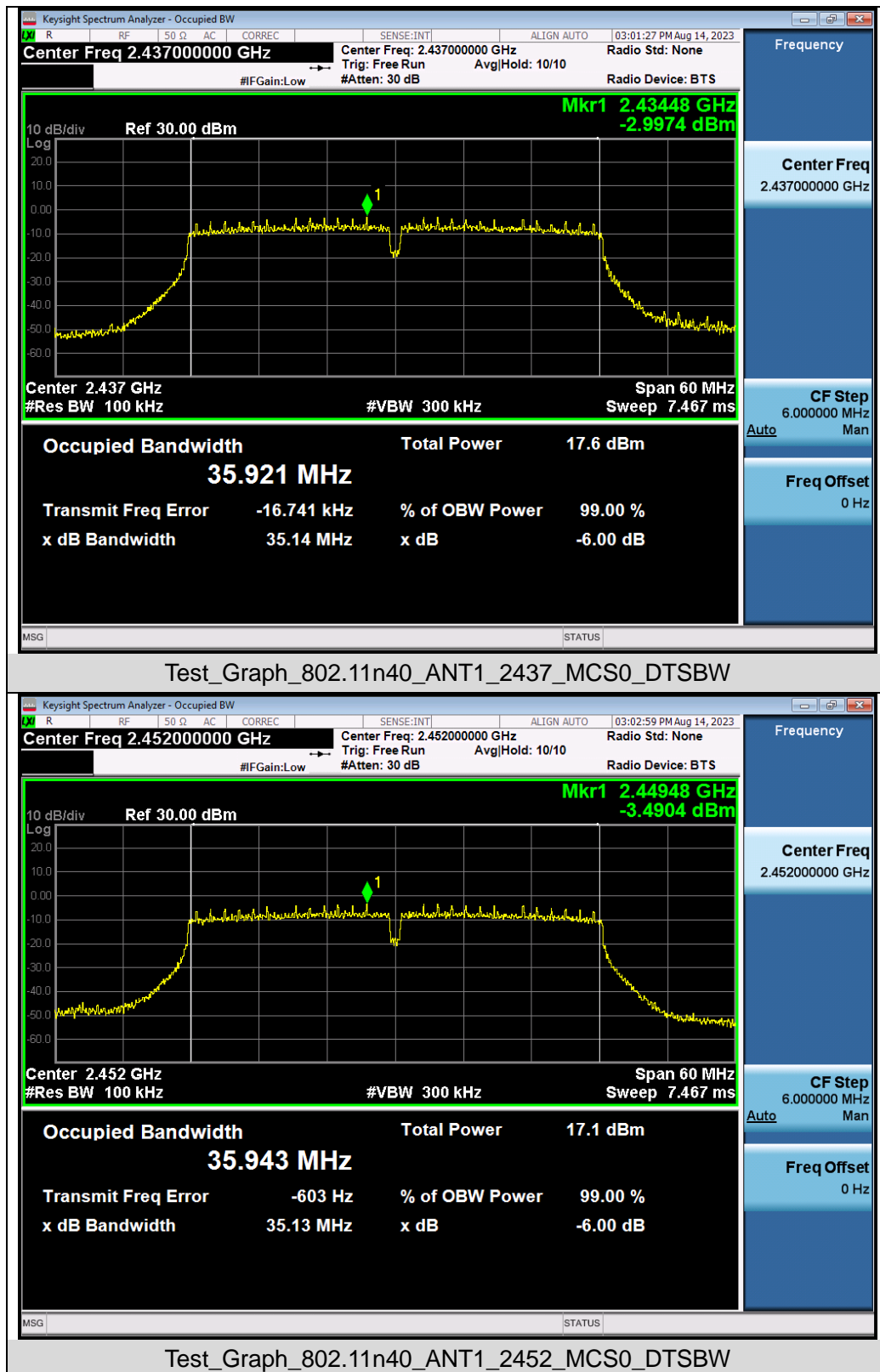


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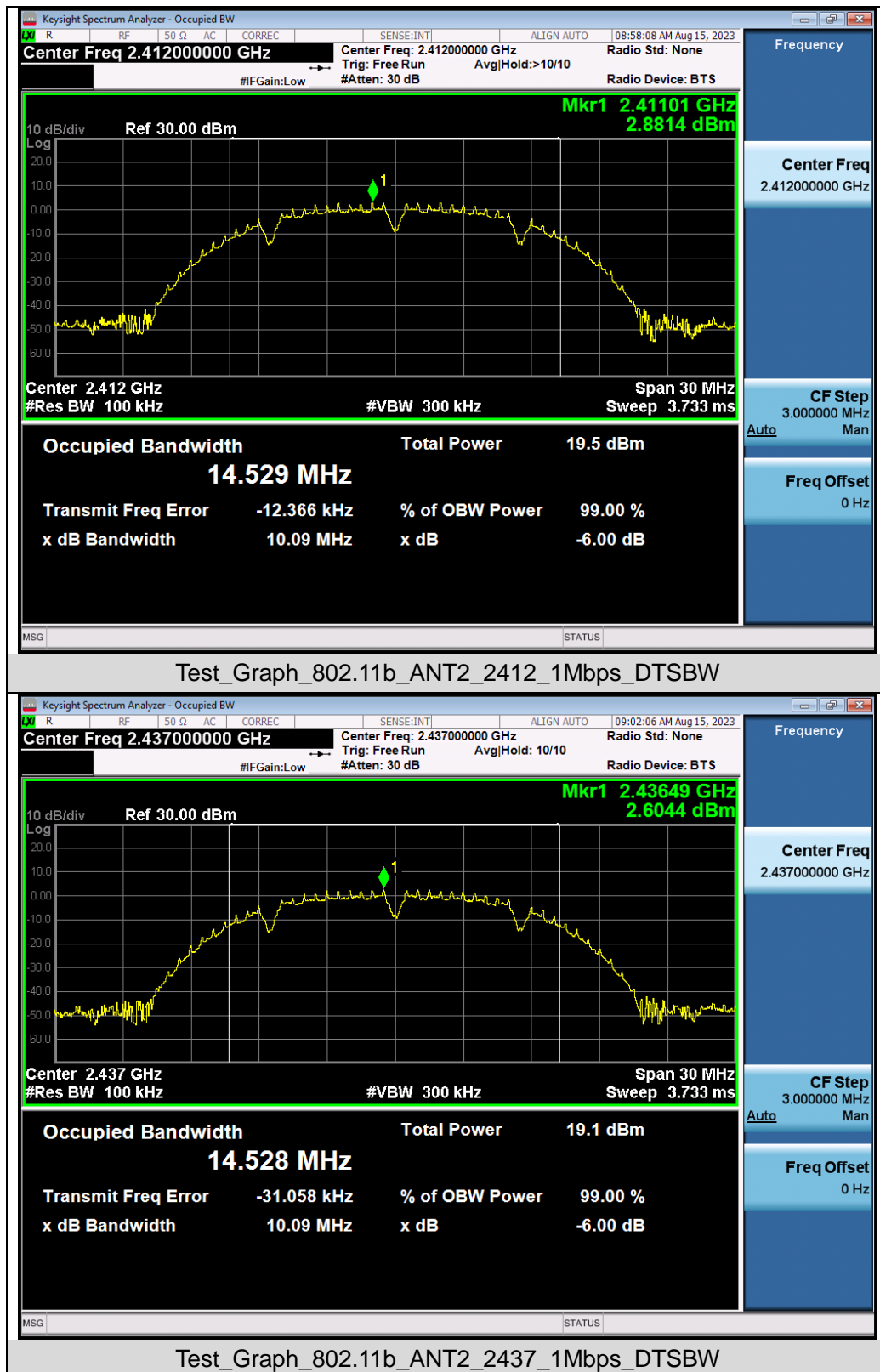


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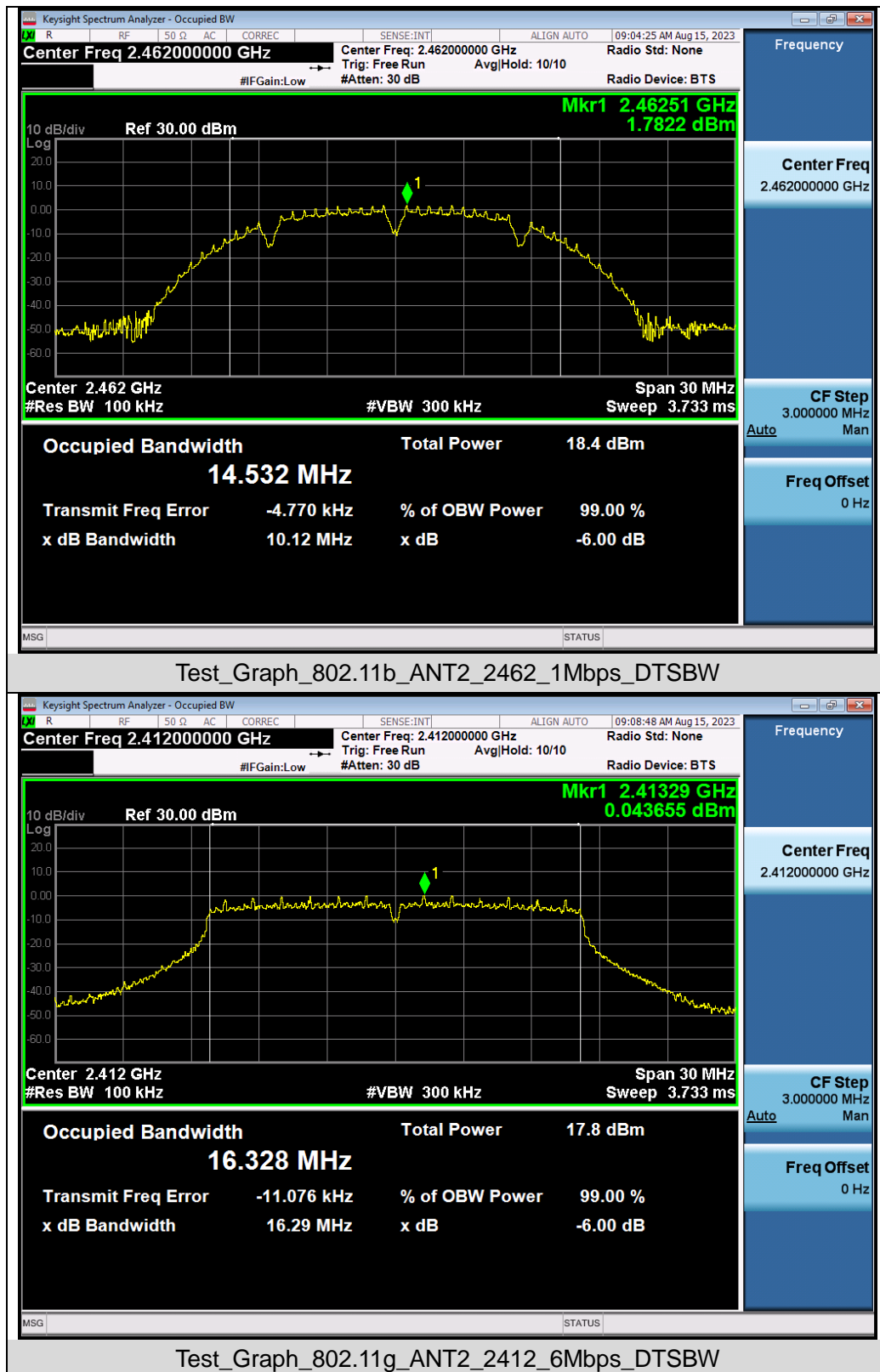
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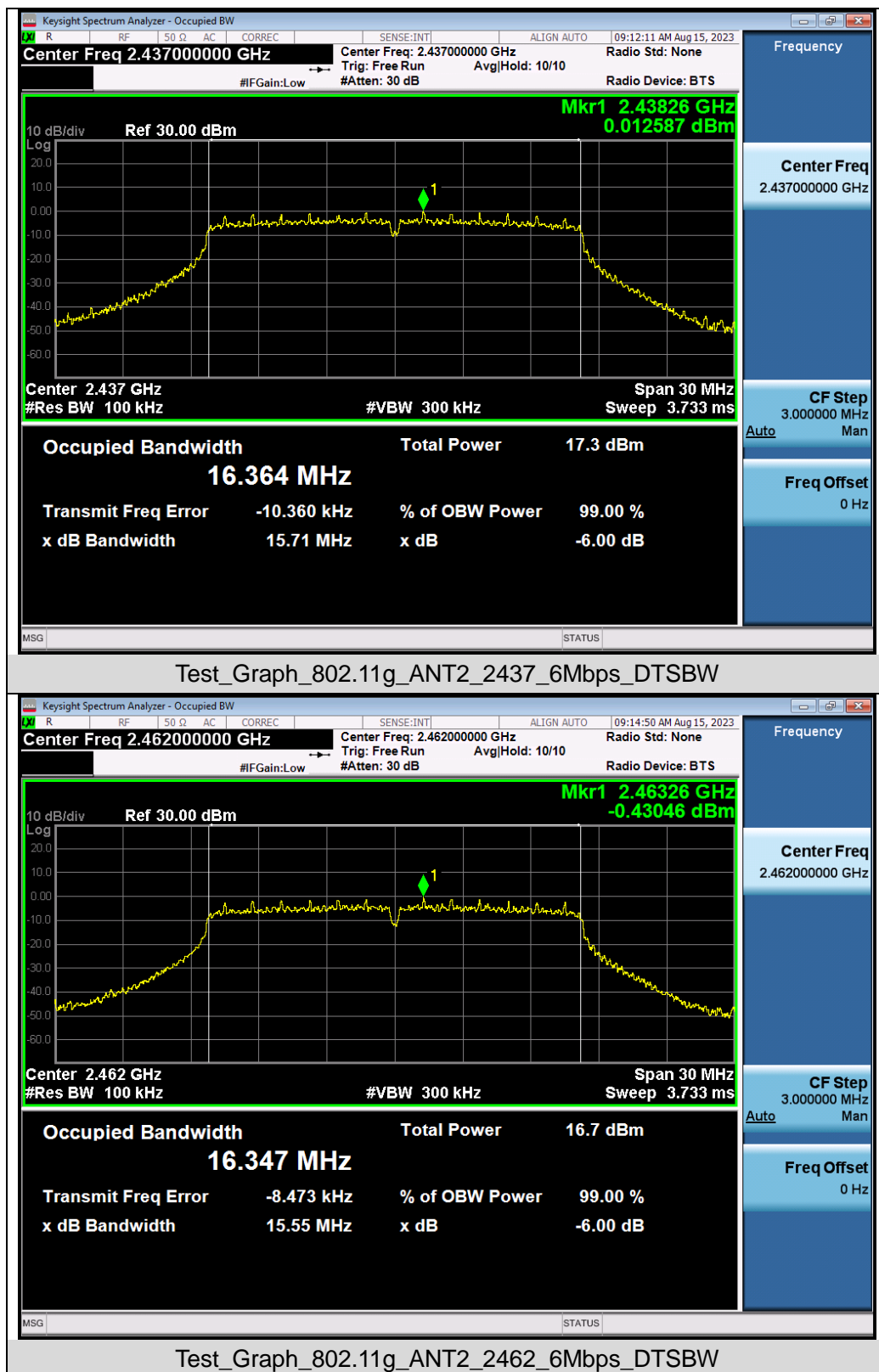
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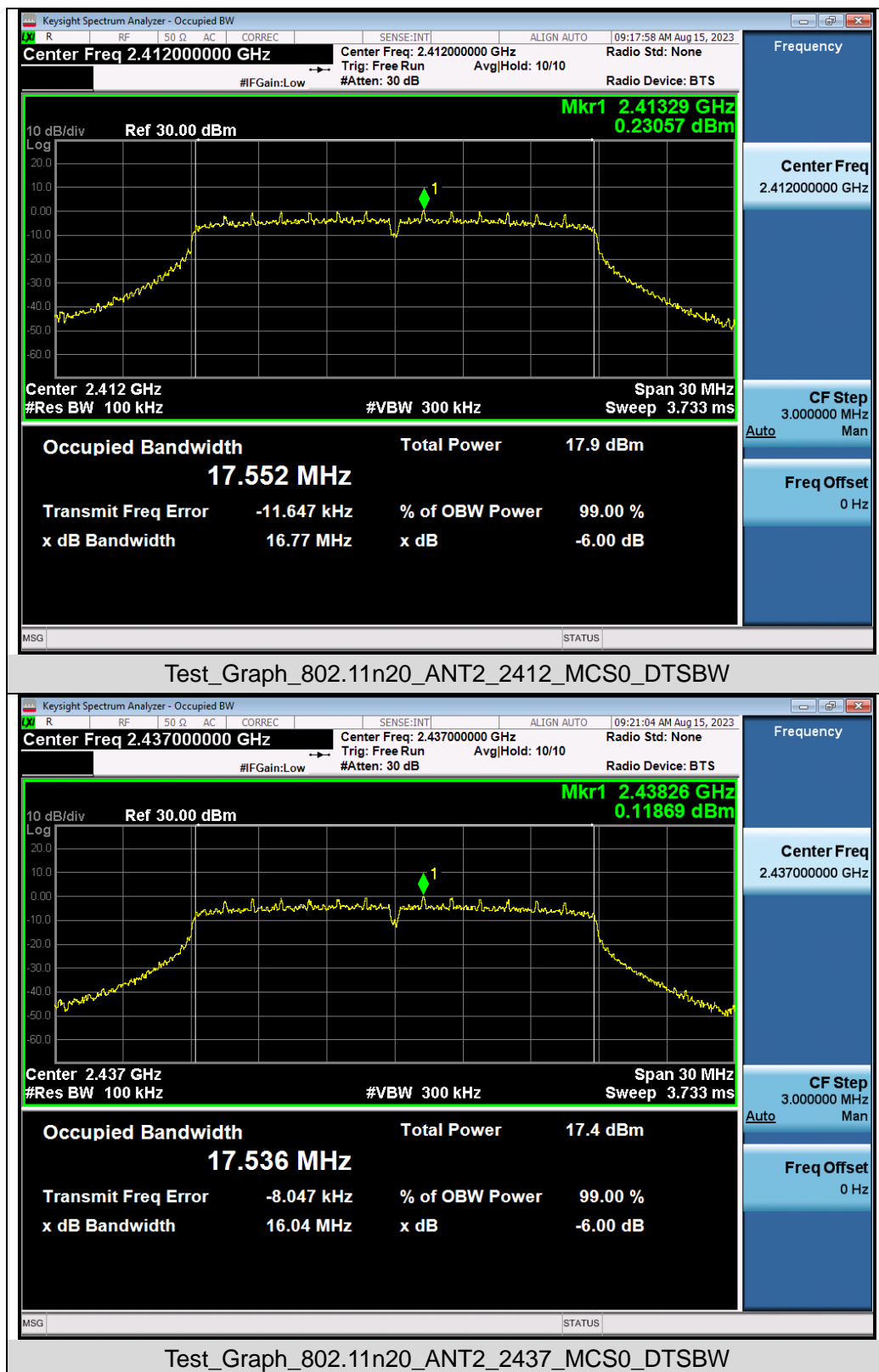
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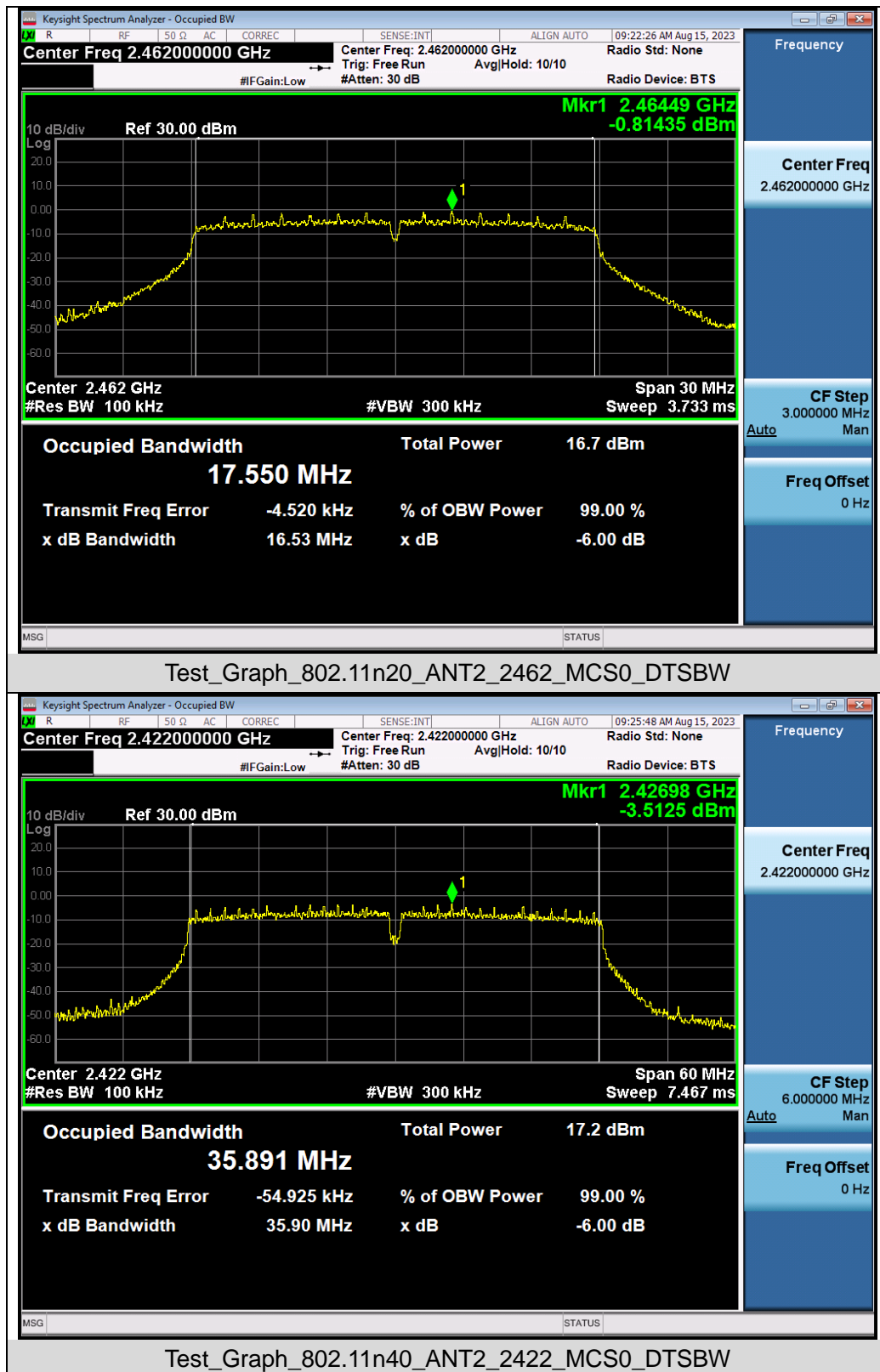


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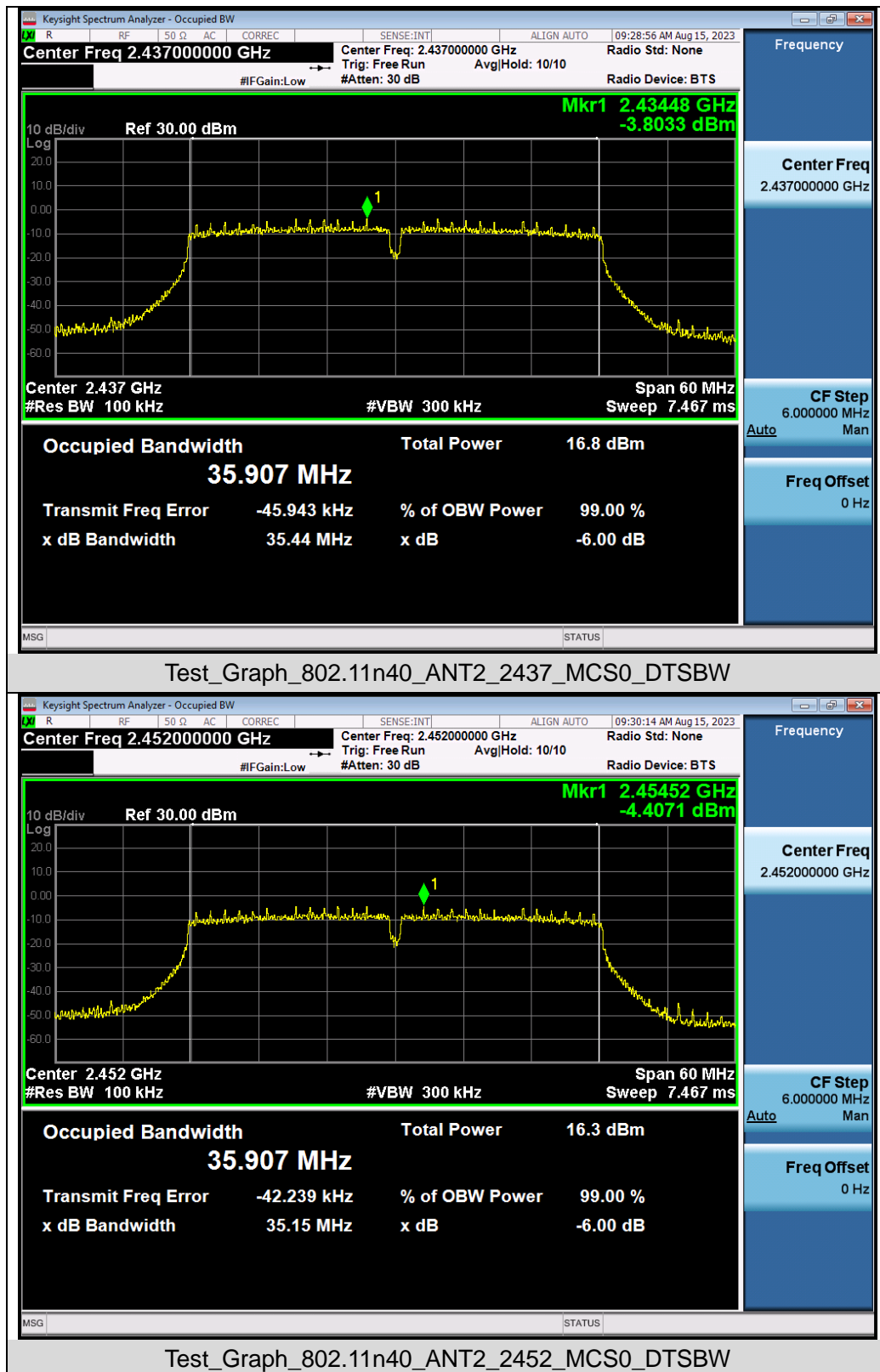
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9. CONDUCTED SPURIOUS EMISSION

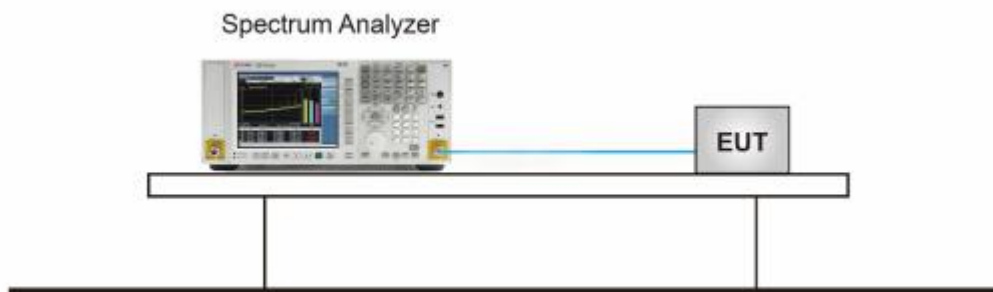
9.1 MEASUREMENT LIMIT

Limits and Measurement Result		
Applicable Limits	Measurement Result	
	Test Data	Criteria
<p>In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in 100kHz bandwidth within the band that contains the highest level of the desired power.</p> <p>In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)</p>	At least -20dBc than the limit Specified on the Bottom Channel	PASS
	At least -20dBc than the limit Specified on the Top Channel	PASS

9.2 MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer
2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
4. RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.(Test frequency below 1GHz)
5. RBW = 1 MHz; VBW= 3 MHz; Sweep = auto; Detector function = peak.(Test frequency Above 1GHz)
6. Set SPA Trace 1 Max hold, then View.
7. Mark the maximum useless stray point and compare it with the limit value to record the result.

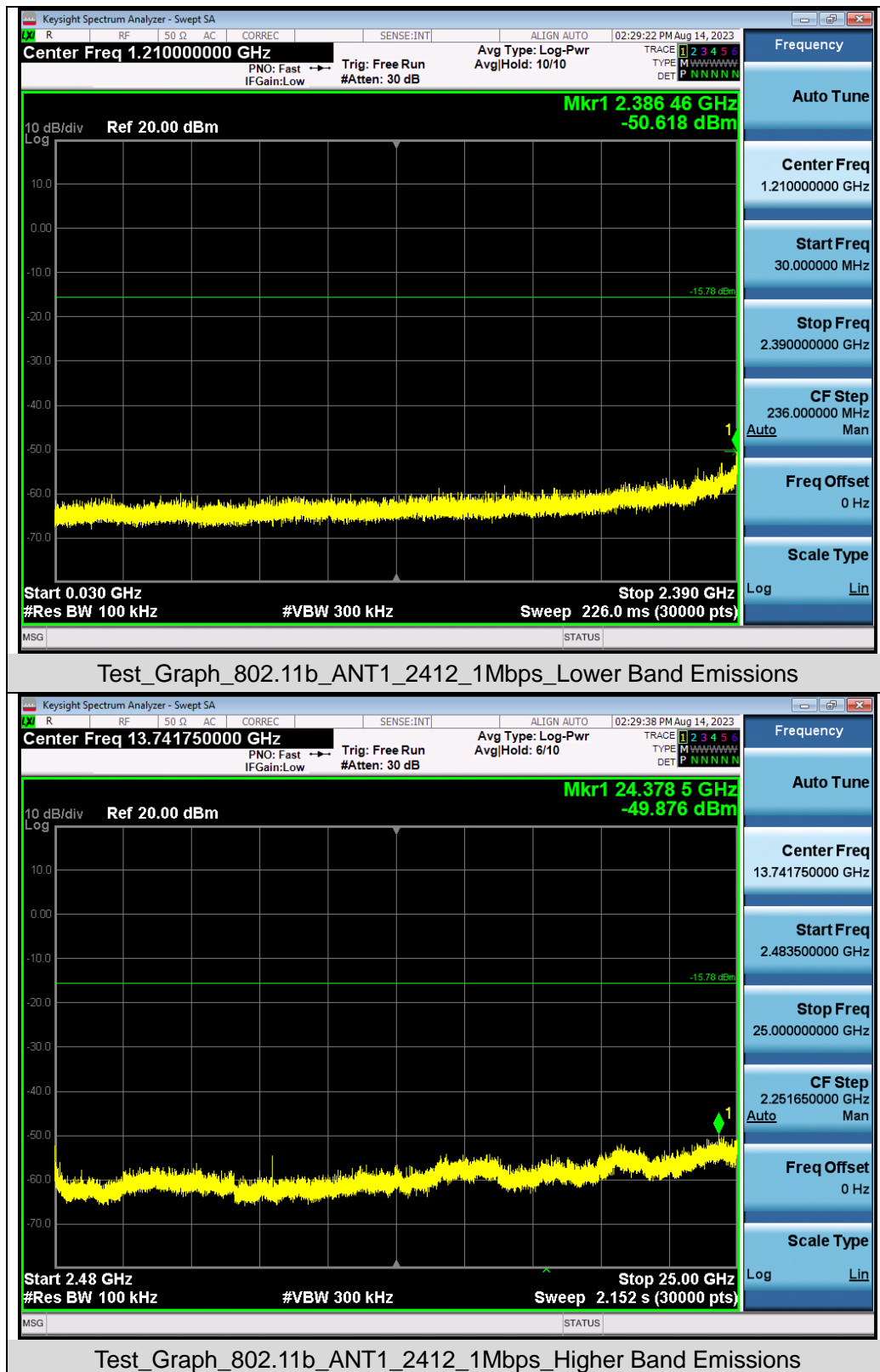
9.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



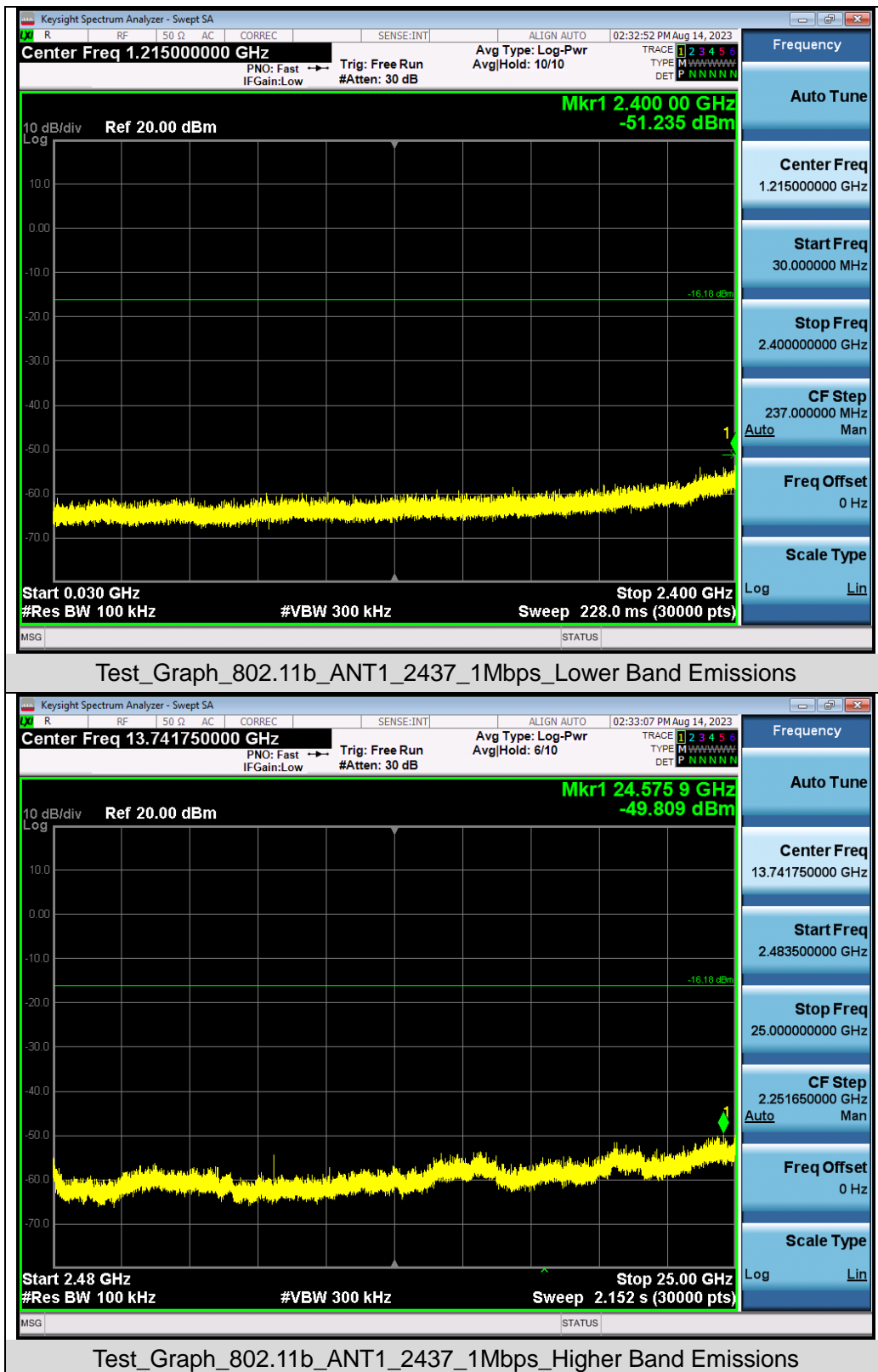
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9.4 MEASUREMENT RESULTS

Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

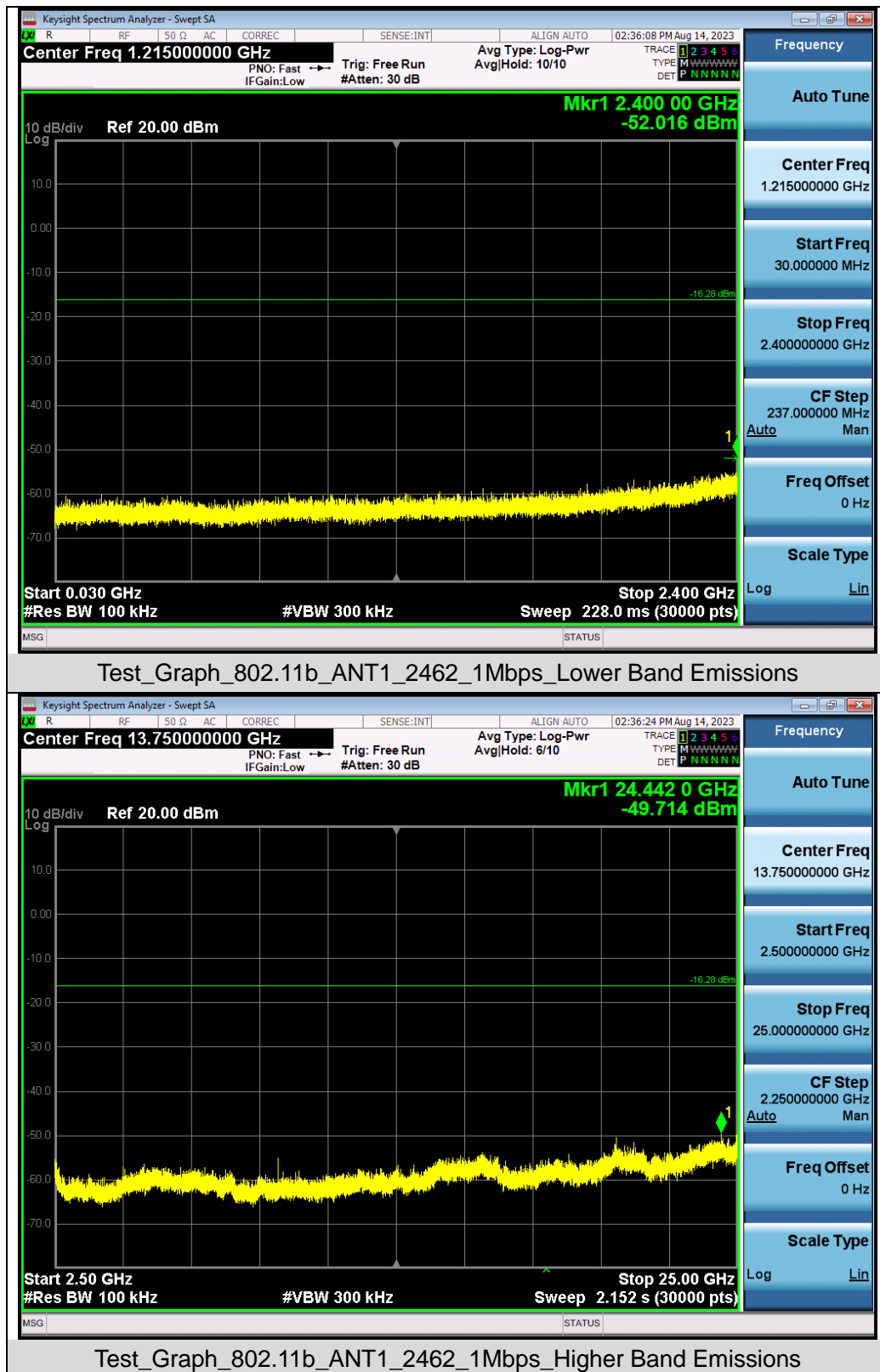


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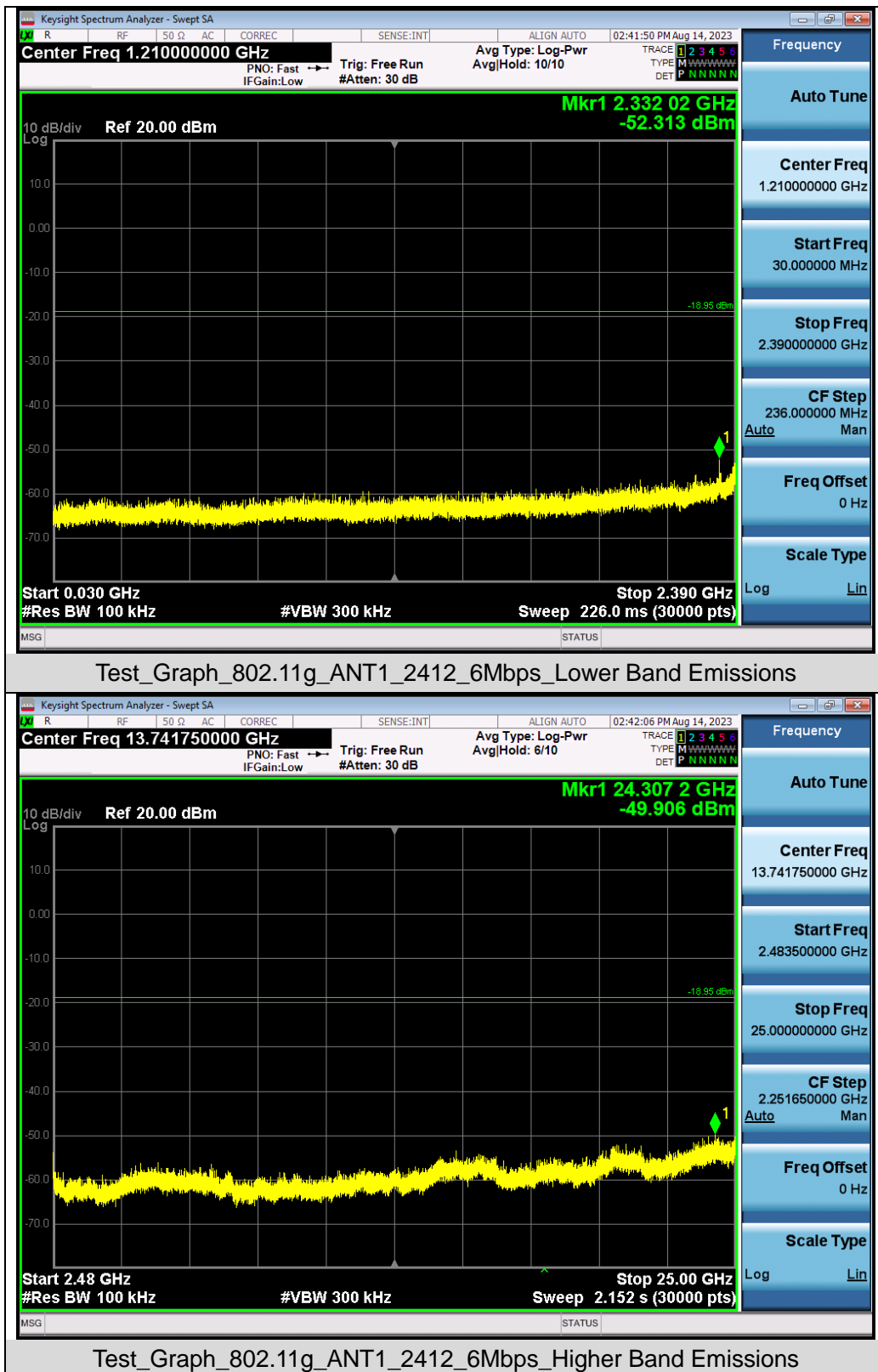


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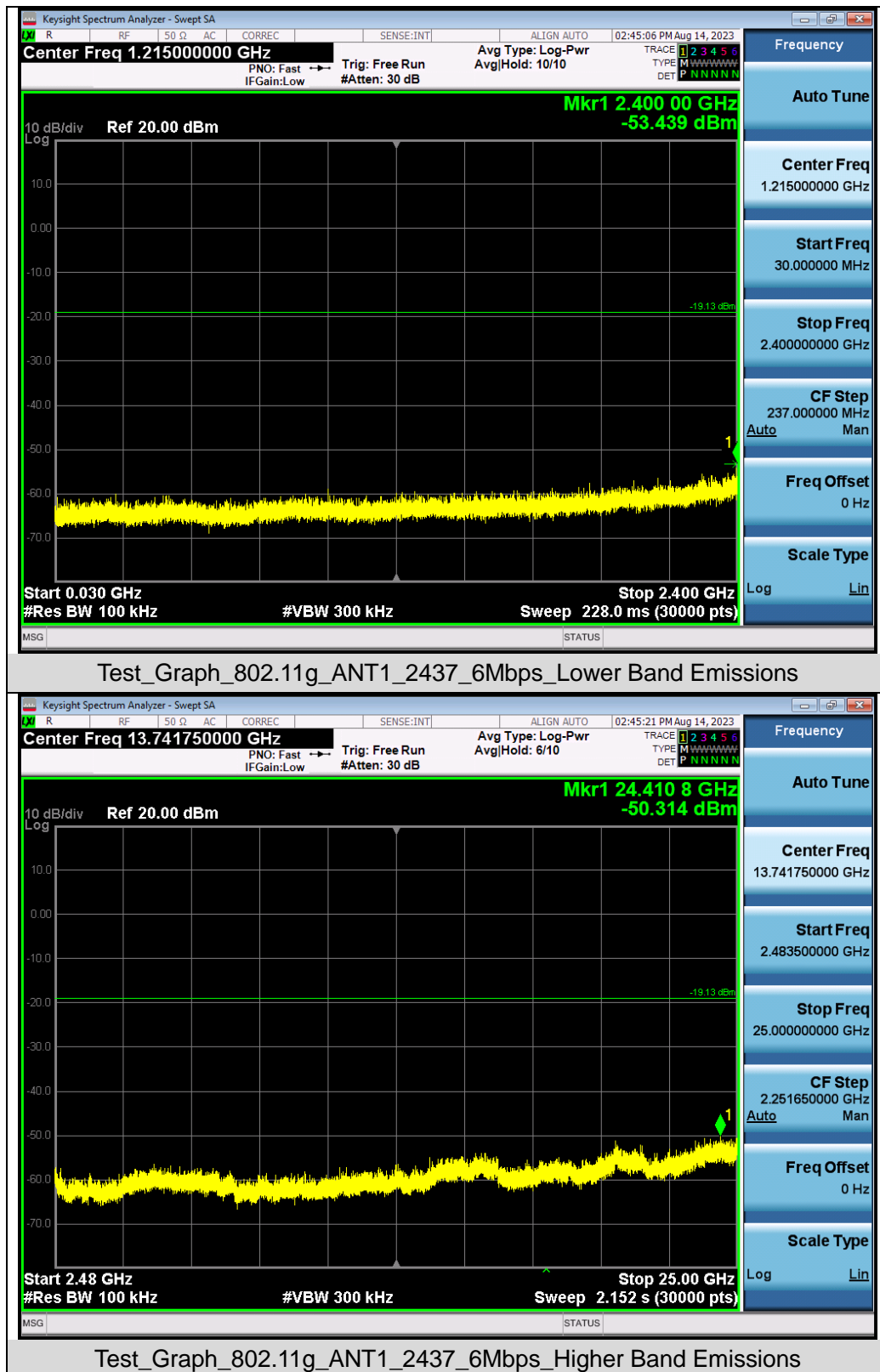
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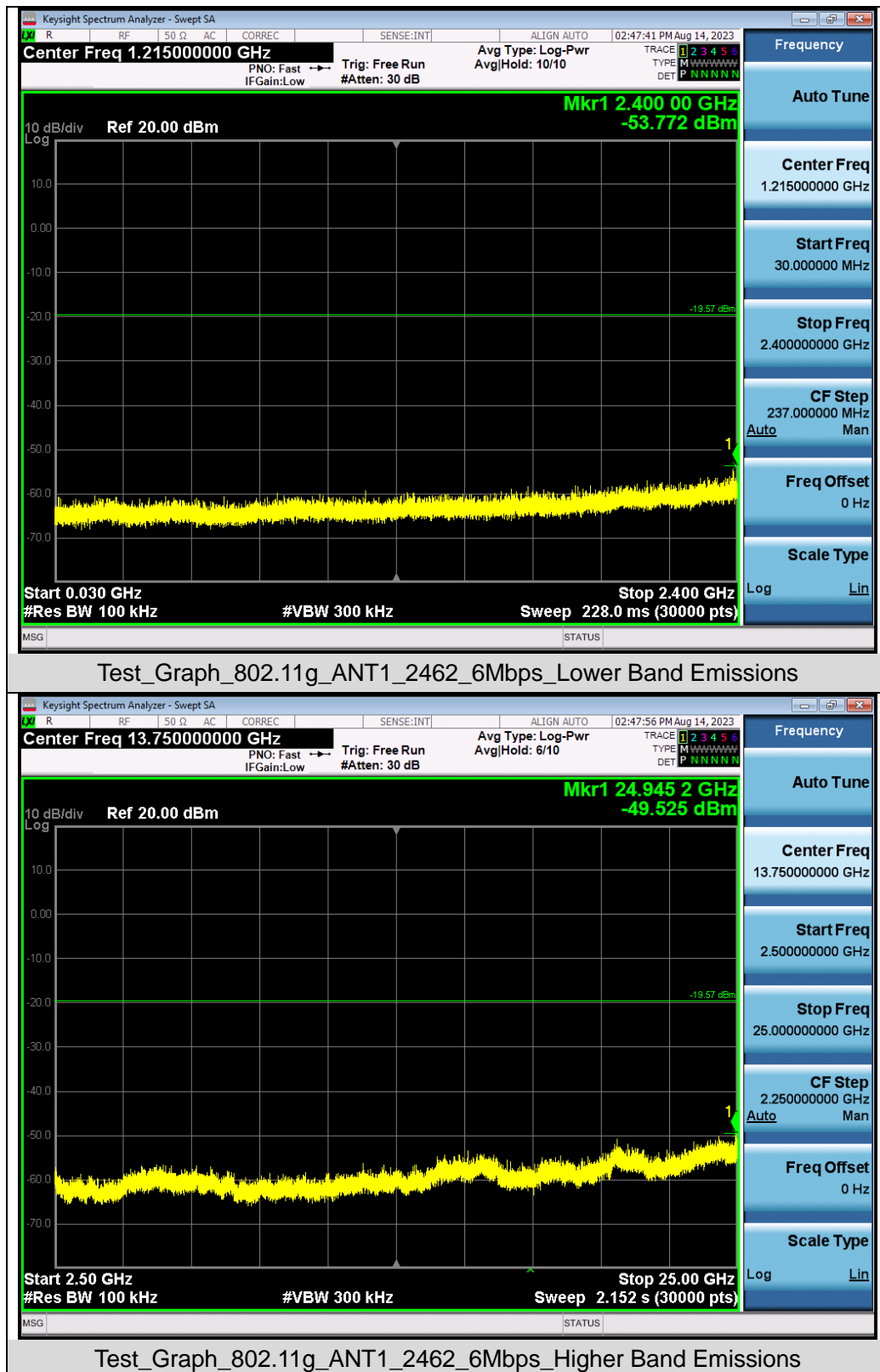
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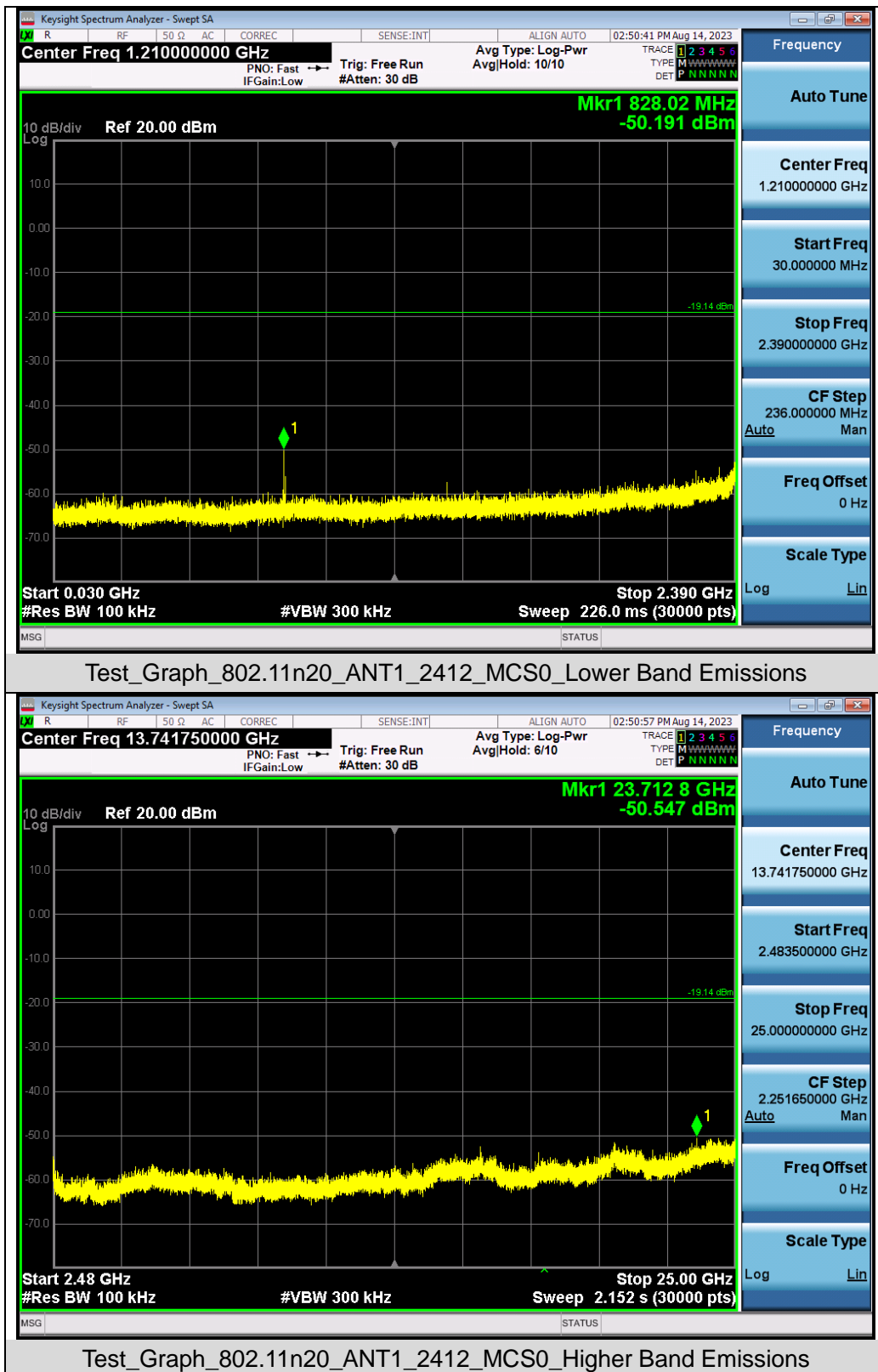
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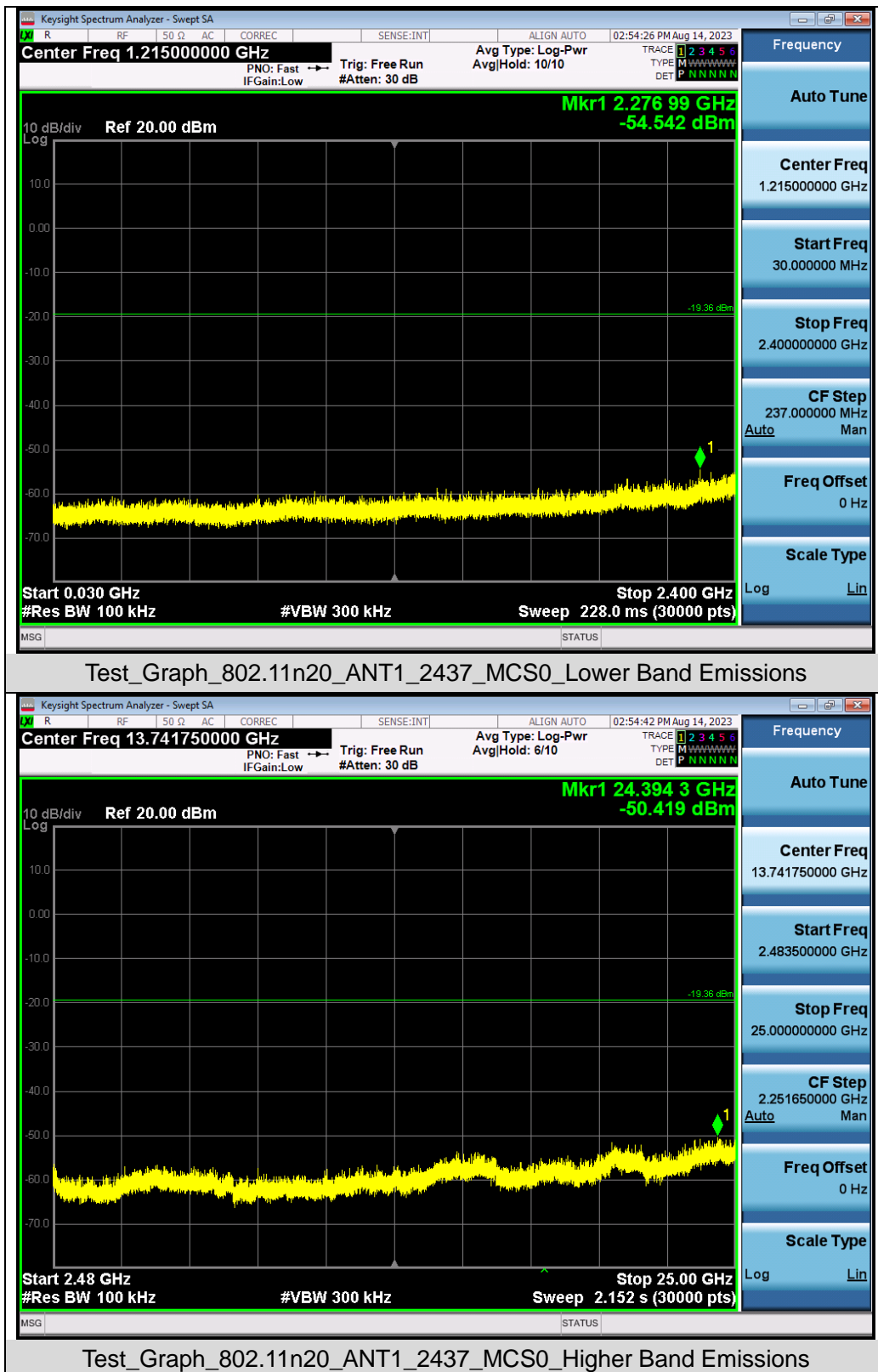
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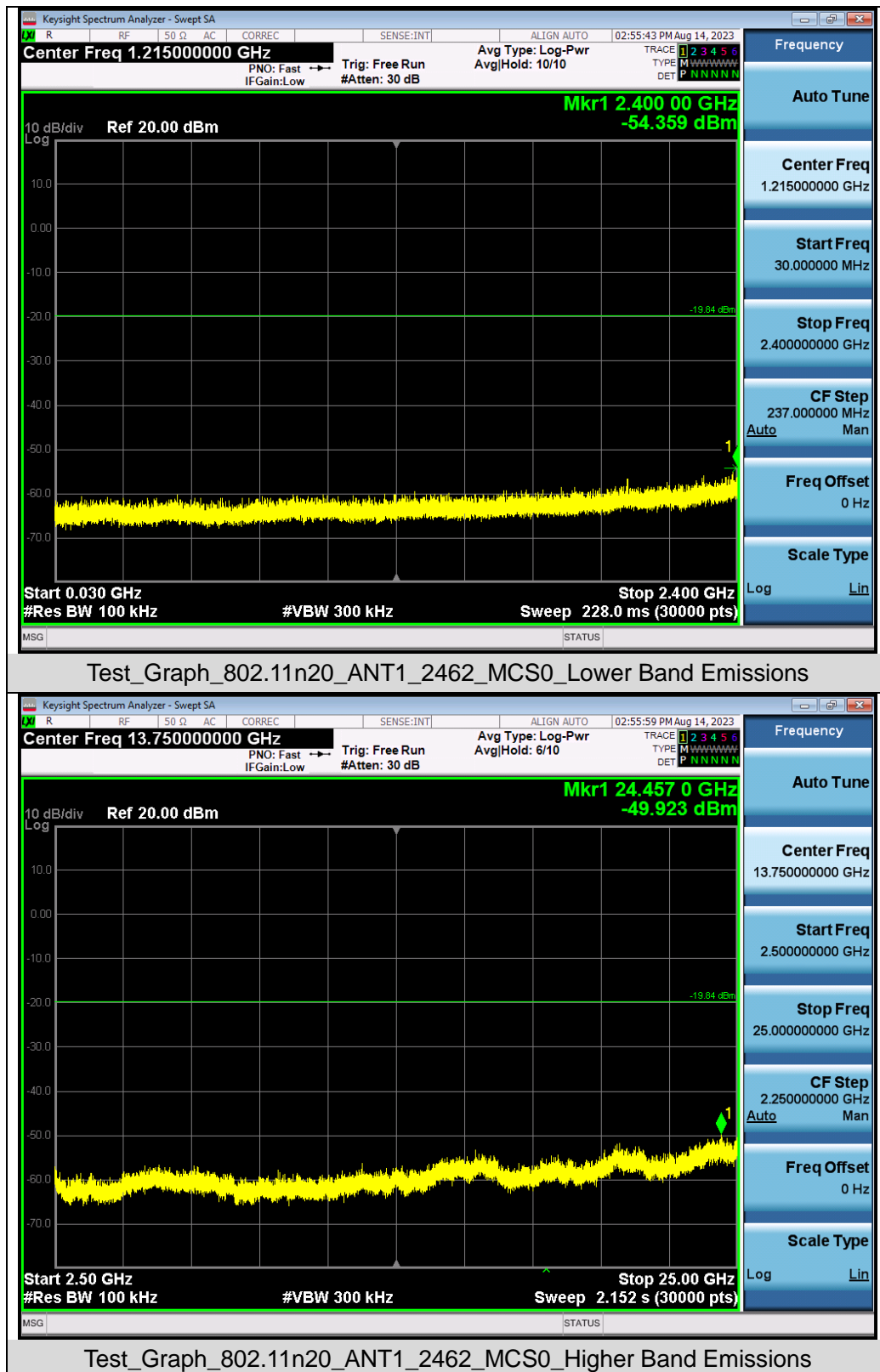
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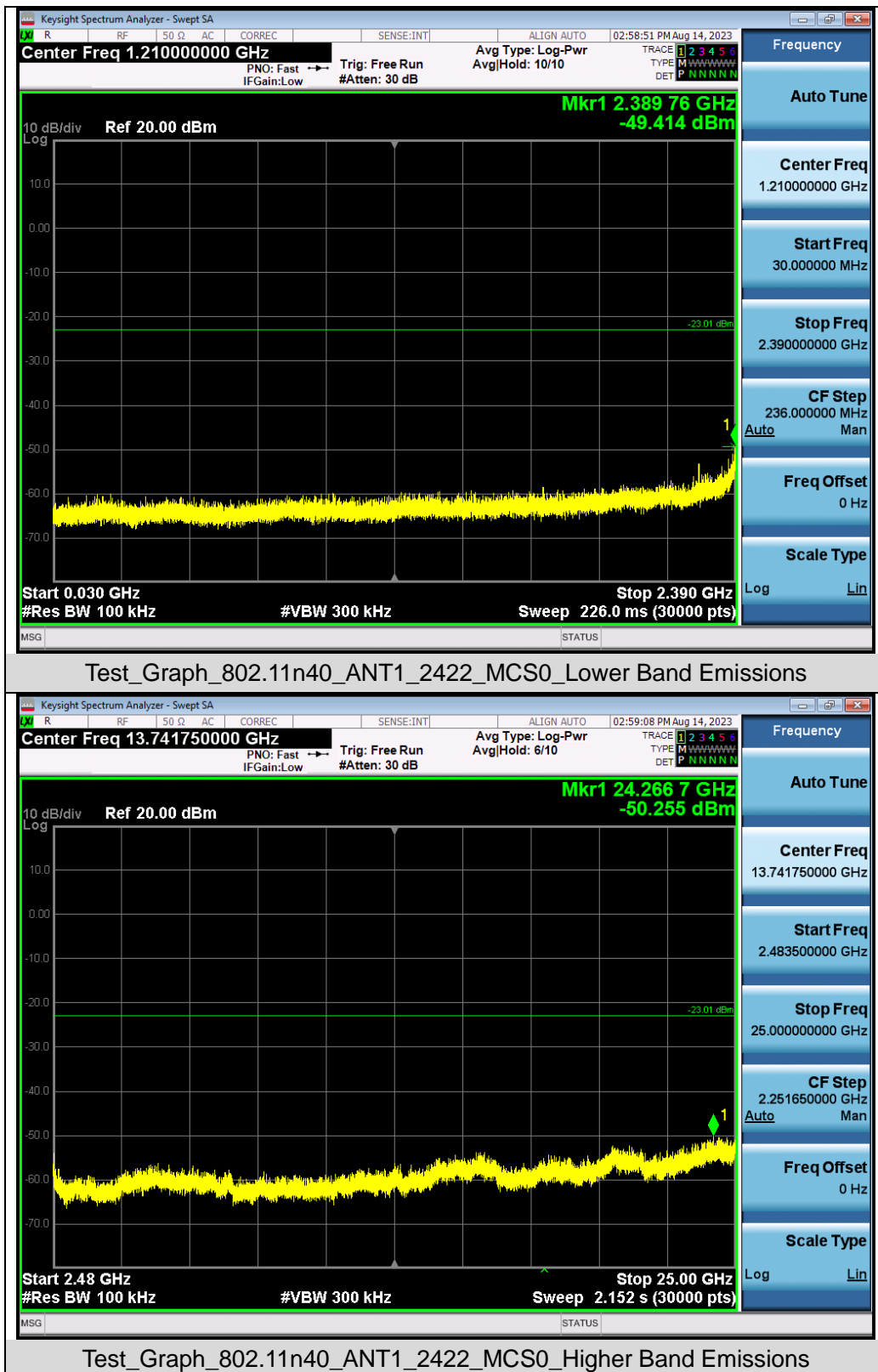
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