

FCC Test Report

Report No.: AGC05877250601FR03

FCC ID : 2APA9-CMSXJ120A
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : IMILAB EC6 Pro
BRAND NAME : imilab, imilab
MODEL NAME : CMSXJ120A
APPLICANT : Shanghai Imilab Technology Co., Ltd.
DATE OF ISSUE : Jul. 09, 2025
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	/	Jul. 09, 2025	Valid	Initial Release

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Table of Contents

1. General Information	5
2. Product Information	6
2.1 Product Technical Description	6
2.2 Table of Carrier Frequency	7
2.3 IEEE 802.11n Modulation Scheme	9
2.4 Related Submittal(S) / Grant (S)	10
2.5 Test Methodology	10
2.6 Special Accessories	10
2.7 Equipment Modifications	10
2.8 Antenna Requirement.....	10
2.9 Description of Test Software	11
3. Test Environment	13
3.1 Address of The Test Laboratory	13
3.2 Test Facility	13
3.3 Environmental Conditions	14
3.4 Measurement Uncertainty	14
3.5 List of Equipment Used	15
4.System Test Configuration.....	17
4.1 EUT Configuration.....	17
4.2 EUT Exercise.....	17
4.3 Configuration of Tested System	17
4.4 Equipment Used in Tested System	17
4.5 Summary of Test Results	18
5. Description of Test Modes	19
6. Duty Cycle Measurement	22
7. RF Output Power Measurement	30
7.1 Provisions Applicable	30
7.2 Measurement Procedure.....	30
7.3 Measurement Setup (Block Diagram of Configuration)	30
7.4 Measurement Result	31
8. DTS Bandwidth & EBW Bandwidth Measurement	35
8.1 Provisions Applicable	35
8.2 Measurement Procedure.....	35
8.3 Measurement Setup (Block Diagram of Configuration)	35
8.4 Measurement Results	36

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9. Power Spectral Density Measurement.....	87
9.1 Provisions Applicable	87
9.2 Measurement Procedure.....	87
9.3 Measurement Setup (Block Diagram of Configuration)	87
9.4 Measurement Result	88
10. Conducted Band Edge and Out-of-Band Emissions.....	130
10.1 Provisions Applicable	130
10.2 Measurement Procedure.....	130
10.3 Measurement Setup (Block Diagram of Configuration)	130
10.4 Measurement Results	131
11. Radiated Spurious Emission	165
11.1 Measurement Limit.....	165
11.2 Measurement Procedure	166
11.3 Measurement Setup (Block Diagram of Configuration)	168
11.4 Measurement Result	169
12. AC Power Line Conducted Emission Test.....	209
12.1 Measurement limit.....	209
12.2 Block Diagram of Line Conducted Emission Test	209
12.3 Preliminary Procedure of Line Conducted Emission Test.....	210
12.4 Final Procedure of Line Conducted Emission Test.....	210
12.5 Test Result of Line Conducted Emission Test.....	211
Appendix I: Photographs of Test Setup.....	215
Appendix II: Photographs of EUT.....	215

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1. General Information

Applicant	Shanghai Imilab Technology Co., Ltd.
Address	Room 001A, Floor 11, Block 1, No. 588 Zixing Road, Minhang District, Shanghai, China
Manufacturer	Shanghai Imilab Technology Co., Ltd.
Address	Room 001A, Floor 11, Block 1, No. 588 Zixing Road, Minhang District, Shanghai, China
Factory	N/A
Address	N/A
Product Designation	IMILAB EC6 Pro
Brand Name	imilab, imilab
Test Model	CMSXJ120A
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	Jun. 18, 2025
Date of Test	Jun. 18, 2025~Jul. 09, 2025
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-5G WLAN-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By

Jack Gui

Jack Gui
(Project Engineer)

Jul. 09, 2025

Reviewed By

Bibo Zhang

Bibo Zhang
(Reviewer)

Jul. 09, 2025

Approved By

Angela Li

Angela Li
(Authorized Officer)

Jul. 09, 2025

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2. Product Information

2.1 Product Technical Description

Equipment Type	<input type="checkbox"/> Outdoor access points <input type="checkbox"/> Fixed P2P access points	<input type="checkbox"/> Indoor access points <input checked="" type="checkbox"/> Client devices
Operation Frequency	<input checked="" type="checkbox"/> U-NII 1:5150MHz~5250MHz <input checked="" type="checkbox"/> U-NII 2C:5470MHz~5725MHz	<input checked="" type="checkbox"/> U-NII 2A: 5250MHz~5350MHz <input checked="" type="checkbox"/> U-NII 3: 5725MHz~5850MHz
DFS Design Type	<input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection <input checked="" type="checkbox"/> Slave without radar detection	
TPC Function	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Hardware Version	LSAM141	
Software Version	5.3.2_0781	
Test Frequency Range	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5180~5240MHz/5260~5320MHz/5500~5700MHz/5745~5825MHz; For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5230MHz/5260~5320MHz/5510~5670MHz/5755~5795MHz;	
RF Output Power	802.11a:13.80dBm,802.11n(HT20):12.60dBm; 802.11n(HT40):12.60dBm; 802.11ac (VHT20):12.51dBm;802.11ac (VHT40):12.50dBm; 802.11ax (HE20):12.55dBm; 802.11ax (HE40):12.53dBm;	
Modulation	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ax :(1024-QAM,256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDMA	
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps; 802.11n: up to 72.2Mbps; 802.11ac: up to 86.7Mbps; 802.11ax: up to 143Mbps	
Number of channels	6 channels of U-NII-1 Band;6 channels of U- NII-2A Band 11 channels of U-NII-2C Band;7 channels of U- NII 3 Band	
Antenna Designation	PCB Antenna	
Antenna Gain	1.7dBi	
Power Supply	DC 12V from adapter	

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2.2 Table of Carrier Frequency

For 5180~5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

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), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

For 5260~5320MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):

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) , 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

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For 5500~5700MHz:

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

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		

5 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

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

For 5745~5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):

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), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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2.3 IEEE 802.11n Modulation Scheme

MCS Index	N _{ss}	Modulation	R	N _{BPSC}	N _{CBPS}		N _{DBPS}		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: 2APA9-CMSXJ120A** filing to comply with the FCC Part 15 requirements.

2.5 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

2.6 Special Accessories

Refer to section 4.4.

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>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</p>

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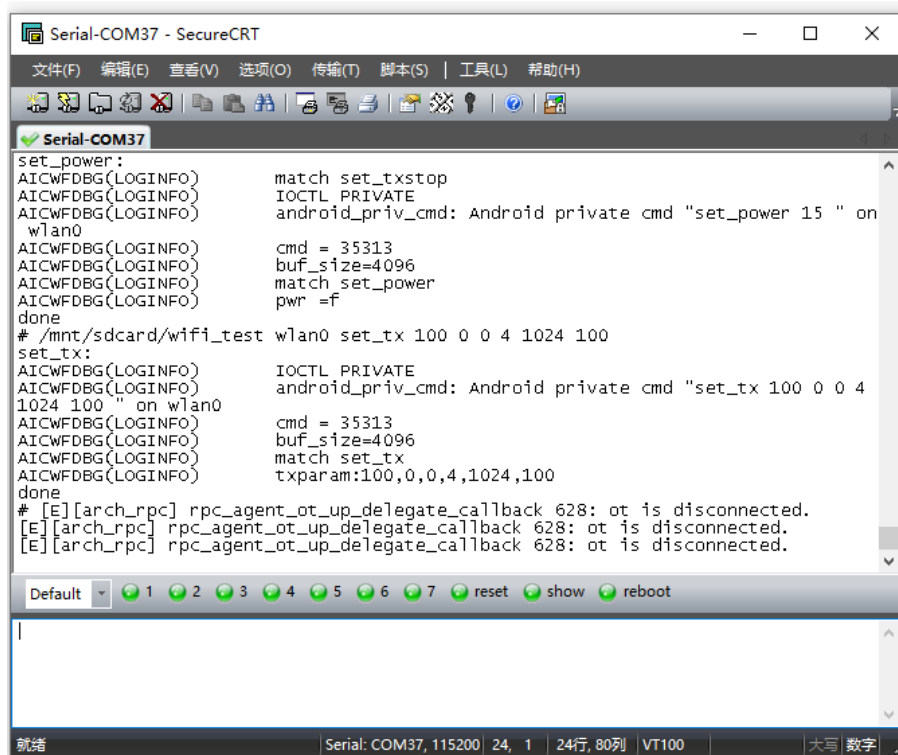
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2.9 Description of Test Software

For IEEE 802.11 mode:

The test utility software used during testing was “SecureCRT”, and the version was “6.6.1”.

Software Setting Diagram



```

Serial-COM37 - SecureCRT
文件(F) 编辑(E) 查看(V) 选项(O) 传输(T) 脚本(S) | 工具(L) 帮助(H)

Serial-COM37
set_power:
AICWDBG(LOGINFO)      match set_txstop
AICWDBG(LOGINFO)      IOCTL_PRIVATE
AICWDBG(LOGINFO)      android_priv_cmd: Android private cmd "set_power 15 " on
                        wlan0
AICWDBG(LOGINFO)      cmd = 35313
AICWDBG(LOGINFO)      buf_size=4096
AICWDBG(LOGINFO)      match set_power
AICWDBG(LOGINFO)      pwr =f
done
# /mnt/sdcard/wifi_test wlan0 set_tx 100 0 0 4 1024 100
set_tx:
AICWDBG(LOGINFO)      IOCTL_PRIVATE
AICWDBG(LOGINFO)      android_priv_cmd: Android private cmd "set_tx 100 0 0 4
                        1024 100 " on wlan0
AICWDBG(LOGINFO)      cmd = 35313
AICWDBG(LOGINFO)      buf_size=4096
AICWDBG(LOGINFO)      match set_tx
AICWDBG(LOGINFO)      txparam:100,0,0,4,1024,100
done
# [E][arch_rpc] rpc_agent_ot_up_delegate_callback 628: ot is disconnected.
[E][arch_rpc] rpc_agent_ot_up_delegate_callback 628: ot is disconnected.
[E][arch_rpc] rpc_agent_ot_up_delegate_callback 628: ot is disconnected.

Default 1 2 3 4 5 6 7 reset show reboot

就绪 Serial: COM37, 115200 24, 1 24行, 80列 VT100 大写 数字
  
```

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Test Mode 5150MHz~5250MHz	Channel	Power Index
802.11a	L/M/H	16
802.11n(HT20)	L/M/H	15
802.11n(HT40)	L/M/H	15
802.11ac(VHT20)	L/M/H	15
802.11ac(VHT40)	L/M/H	15
802.11ax(VHT20)	L/M/H	15
802.11ax(VHT40)	L/M/H	15
Test Mode 5250MHz~5350MHz	Channel	Power Index
802.11a	L/M/H	16
802.11n(HT20)	L/M/H	15
802.11n(HT40)	L/M/H	15
802.11ac(VHT20)	L/M/H	15
802.11ac(VHT40)	L/M/H	15
802.11ax(VHT20)	L/M/H	15
802.11ax(VHT40)	L/M/H	15
Test Mode 5470MHz~5725MHz	Channel	Power Index
802.11a	L/M/H	16
802.11n(HT20)	L/M/H	15
802.11n(HT40)	L/M/H	15
802.11ac(VHT20)	L/M/H	15
802.11ac(VHT40)	L/M/H	15
802.11ax(VHT20)	L/M/H	15
802.11ax(VHT40)	L/M/H	15
Test Mode 5725MHz~5850MHz	Channel	Power Index
802.11a	L/M/H	19
802.11n(HT20)	L/M/H	18
802.11n(HT40)	L/M/H	18
802.11ac(VHT20)	L/M/H	18
802.11ac(VHT40)	L/M/H	18
802.11ax(VHT20)	L/M/H	18
802.11ax(VHT40)	L/M/H	18

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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 follow 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 follow 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
Temperature range (°C)	15 - 35
Relative humidity range	20% - 75%
Pressure range (kPa)	86 - 106
Power supply	DC 12V

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	$U_c = \pm 2.9 \text{ dB}$
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	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2.7 \%$

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3.5 List of Equipment Used

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-05-08	2026-05-07
<input checked="" type="checkbox"/>	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2025-01-14	2026-01-13
<input checked="" type="checkbox"/>	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2025-01-14	2026-01-13
<input checked="" type="checkbox"/>	AGC-ER-A007	6dB Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2025-01-14	2026-01-13
<input checked="" type="checkbox"/>	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2025-05-21	2026-05-20
<input checked="" type="checkbox"/>	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
<input checked="" type="checkbox"/>	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2025-01-14	2026-01-13
<input checked="" type="checkbox"/>	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
<input checked="" type="checkbox"/>	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
<input checked="" type="checkbox"/>	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
<input checked="" type="checkbox"/>	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
<input checked="" type="checkbox"/>	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
<input checked="" type="checkbox"/>	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
<input checked="" type="checkbox"/>	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
<input checked="" type="checkbox"/>	AGC-EM-A118	5G Filter	SongYi	BRM50716	N/A	2025-05-16	2026-05-15
<input checked="" type="checkbox"/>	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15
<input type="checkbox"/>	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15

● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	N/A	2024-02-01	2026-01-31
<input checked="" type="checkbox"/>	AGC-EM-E023	Artificial Mains Network	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07
<input checked="" type="checkbox"/>	AGC-EM-E116	Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07

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● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
<input checked="" type="checkbox"/>	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
<input checked="" type="checkbox"/>	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
<input type="checkbox"/>	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6
<input checked="" type="checkbox"/>	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0

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4.System Test Configuration

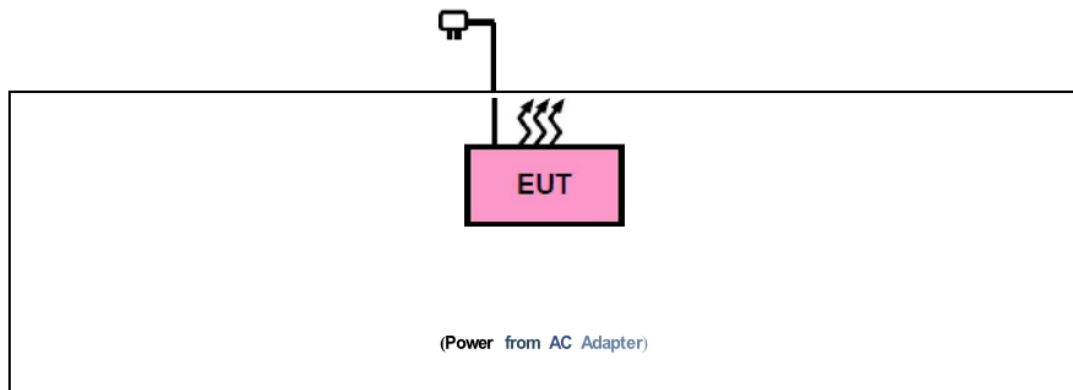
4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System



4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

- ☐ Test Accessories Come From The Laboratory
- ☒ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Adapter	Shenzhen AMC Technology Co., Ltd.	AD-0121200100US-5	Input: 100-240V~ 50/60Hz 0.5A, Output: 12V 1.0A	1.0m unshielded

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4.5 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(g)	Frequency Stability	Pass (See Note 1)
7	§15.407(c)	Transmission Discontinuation Requirement	Pass (See Note 2)
8	§15.407(b)(1/2/3/4)	Conducted Band Edge and Out-of-Band Emissions	Pass
9	§15.209,§15.407(b)(1/2/3/4)	Radiated Spurious Emission	Pass
10	§15.207	AC Power Line Conducted Emission	Pass

Note:

1. Refer to the manufacturer's declaration in the user manual.
2. The device operates without the transmission of information.
3. According to the sales strategy, product prototypes in the production stage are divided into first - supplier prototypes and second - supplier prototypes. The main difference between them lies in the different suppliers of PCBA electronic components, while their electrical schematics and core chip modules are completely the same. Therefore, additional difference tests on Radiated Emission (RE) and Conducted Emission (CE) have been carried out.
4. To clearly distinguish between prototype types, use identifiers:
1# represents the prototype of supplier 1, and 2# represents the prototype of supplier 2

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5. Description of Test Modes

EUT Configure Mode		Applicable To				Description
		RE > 1G	RE < 1G	PLC	APCM	
A		☒	☒	☒	☒	Powered by Adapter with WIFI(5G) Link
B		--	--	--	--	Powered by Battery with WIFI(5G) Link
C		--	--	--	--	Powered by USB with WIFI(5G) Link
Measurement Annotation						
Where	RE > 1G: Radiated Emission above 1GHz				PLC: Power Line Conducted Emission	
	RE < 1G: Radiated Emission below 1GHz				APCM: Antenna Port Conducted Measurement	
Note						
1. Positioning in three axes was pre-tested, with the worst case being positioning in the X-plane.						
2. The radiation part tests the dual-antenna MIMO as the worst combination.						
3. "--"means no effect.						

● Power Line Conducted Emission Test						
<input checked="" type="checkbox"/>	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).					
<input type="checkbox"/>	The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.					
Select Channel Parameter Configuration Test List						
EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
A	802.11n(20MHz)	5180-5240	36 to 48	36	OFDM	MCS0

● Radiated Emission Test (Below 1GHz)						
<input checked="" type="checkbox"/>	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).					
<input type="checkbox"/>	The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.					
Select Channel Parameter Configuration Test List						
EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
A	802.11n(20MHz)	5180-5240	36 to 48	36	OFDM	MCS0

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● Radiated Emission Test (Above 1GHz)						
<input checked="" type="checkbox"/>	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).					
<input checked="" type="checkbox"/>	Support 802.11ax, device debugging is tested in Full RU state.					
<input type="checkbox"/>	The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.					
Select Channel Parameter Configuration Test List						
EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
A	802.11n (20MHz)	5180-5240	36 to 48	36, 40, 48	OFDM	MCS0
A	802.11n (20MHz)	5260-5320	52 to 64	52, 60, 64	OFDM	MCS0
A	802.11n (20MHz)	5500-5700	100 to 140	100, 116, 140	OFDM	MCS0
A	802.11n (20MHz)	5745-5825	149 to 165	149, 157, 165	OFDM	MCS0

● Band edge Measurement						
<input checked="" type="checkbox"/>	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).					
<input checked="" type="checkbox"/>	The device supports multiple antenna transmission, allowing MIMO technology mode to be recorded as the worst.					
<input type="checkbox"/>	MIMO technology is not supported, and the 802.11a mode only records the worst antenna (ANT 1) as the worst					
<input checked="" type="checkbox"/>	Support 802.11ax, device debugging is tested in Full RU state.					
<input checked="" type="checkbox"/>	The device antenna gain and cable loss are added to the spectrum compensation coefficient or offset through software.					
Select Channel Parameter Configuration Test List						
EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
A	802.11n (20MHz)	5180-5240	36 to 48	36, 48	OFDM	MCS0
A	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11n (20MHz)	5260-5320	52 to 64	52, 64	OFDM	MCS0
A	802.11n (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11n (20MHz)	5500-5700	100 to 140	100, 140	OFDM	MCS0
A	802.11n (40MHz)		100 to 140	100, 140	OFDM	MCS0
A	802.11n (20MHz)	5745-5825	149 to 165	149, 165	OFDM	MCS0
A	802.11n (40MHz)		149 to 165	149, 65	OFDM	MCS0

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● Antenna Conducted Measurement						
<input checked="" type="checkbox"/>	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).					
<input checked="" type="checkbox"/>	The device supports multiple antenna transmission, allowing MIMO technology mode to be recorded as the worst.					
<input type="checkbox"/>	MIMO technology is not supported, and the 802.11a mode only records the worst antenna (ANT 1) as the worst					
<input checked="" type="checkbox"/>	Support 802.11ax, device debugging is tested in Full RU state.					
<input checked="" type="checkbox"/>	The device antenna gain and cable loss are added to the spectrum compensation coefficient or offset through software.					
Select Channel Parameter Configuration Test List						
EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
A	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 64	OFDM	6.0
A	802.11n (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11a	5500-5700	100 to 140	100, 140	OFDM	6.0
A	802.11n (40MHz)		102 to 134	102, 134	OFDM	MCS0
A	802.11a	5745-5825	149 to 165	149, 165	OFDM	6.0
A	802.11n (40MHz)		151 to 159	151, 159	OFDM	MCS0

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6. Duty Cycle Measurement

5GHz WLAN (NII) operation is possible in 20MHz, 40MHz 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 = Average. 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)
Band U-NII1:5150MHz-5250MHz			
802.11a	6	91	0.41
802.11n_HT20	MCS0	97	0.13
802.11n_HT40	MCS0	97	0.13
802.11ac_VHT20	MCS0	97	0.13
802.11ac_VHT40	MCS0	97	0.13
802.11ax_HE20	MCS0	97	0.13
802.11ax_HE40	MCS0	96	0.18
Band U-NII 2A:5250MHz-5350MHz			
802.11a	6	92	0.36
802.11n_HT20	MCS0	98	0.09
802.11n_HT40	MCS0	97	0.13
802.11ac_VHT20	MCS0	96	0.18
802.11ac_VHT40	MCS0	97	0.13
802.11ax_HE20	MCS0	97	0.13
802.11ax_HE40	MCS0	97	0.13

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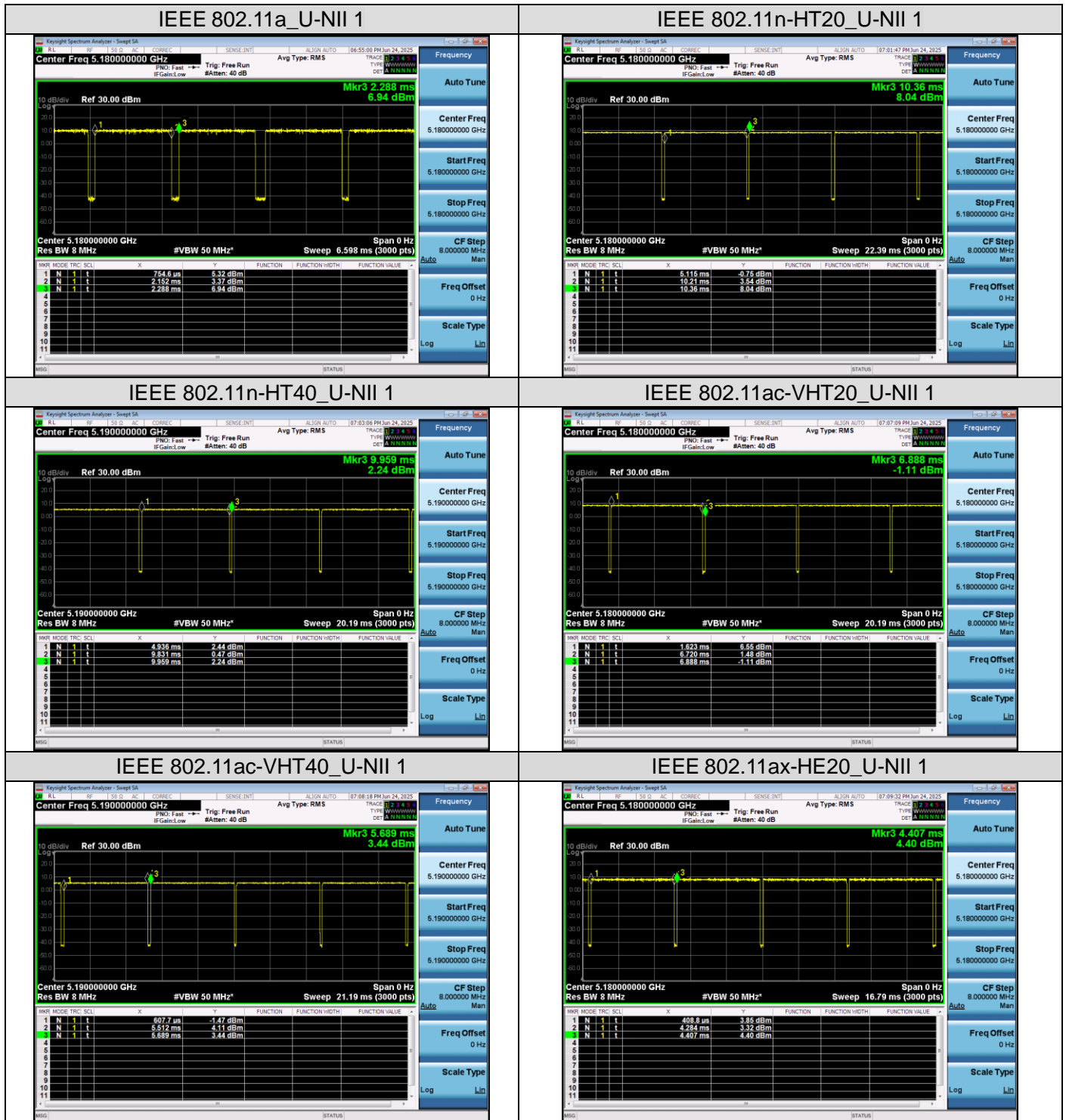
Operating mode	Data rates (Mbps)	Duty Cycle (%)	Duty Cycle Factor (dB)
Band U-NII 2C:5470MHz-5725MHz			
802.11a	6	92	0.36
802.11n_HT20	MCS0	97	0.13
802.11n_HT40	MCS0	97	0.13
802.11ac_VHT20	MCS0	97	0.13
802.11ac_VHT40	MCS0	97	0.13
802.11ax_HE20	MCS0	96	0.18
802.11ax_HE40	MCS0	97	0.13
Band U-NII 3:5725MHz-5850MHz			
802.11a	6	91	0.41
802.11n_HT20	MCS0	98	0.09
802.11n_HT40	MCS0	97	0.13
802.11ac_VHT20	MCS0	97	0.13
802.11ac_VHT40	MCS0	98	0.09
802.11ax_HE20	MCS0	97	0.13
802.11ax_HE40	MCS0	95	0.22

Remark:

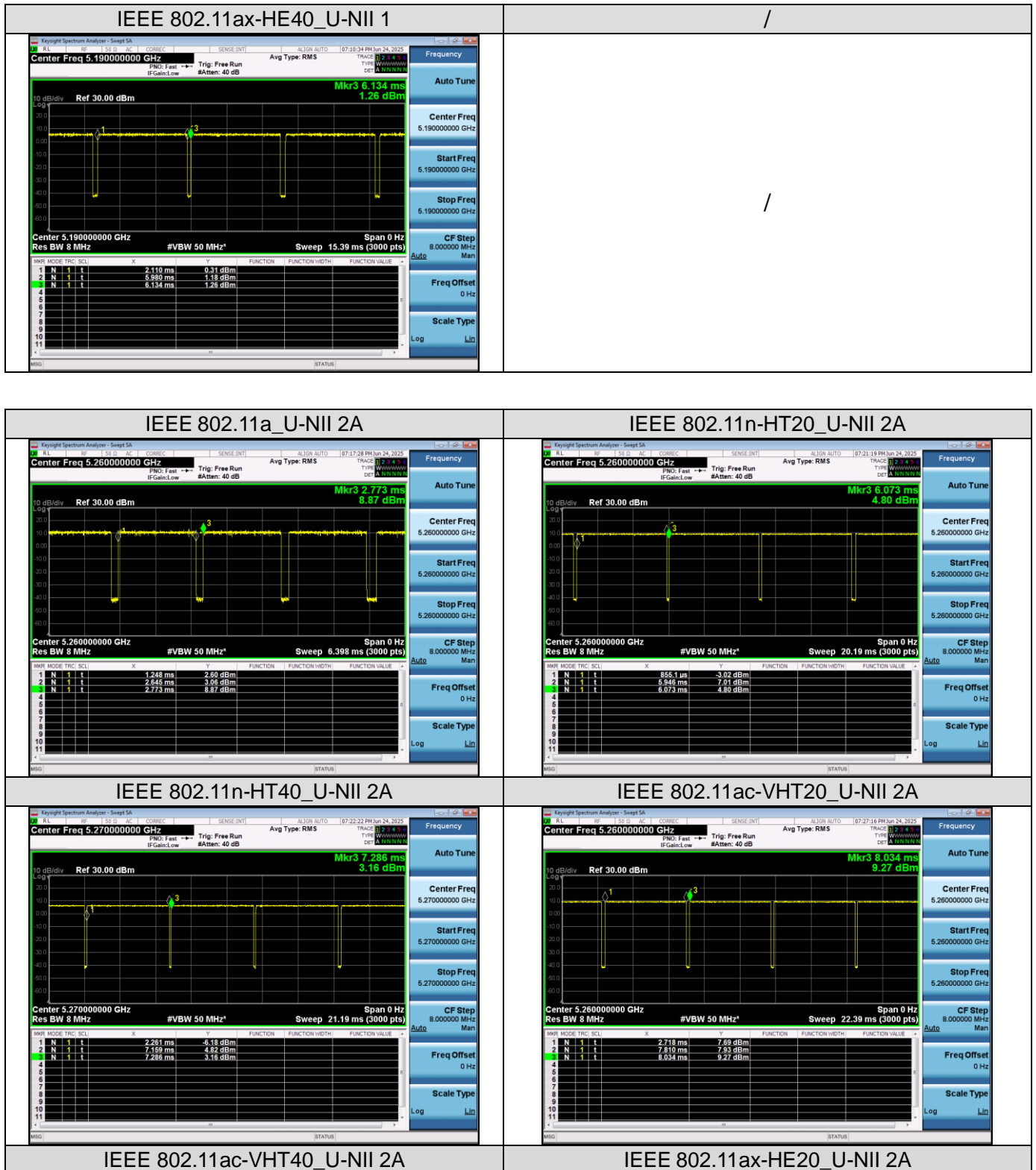
1. Duty Cycle factor = $10 * \log (1/ \text{Duty cycle})$
2. The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value.
3. Involving the test items of duty cycle compensation coefficient, the final results have been added and calculated by the software and presented.

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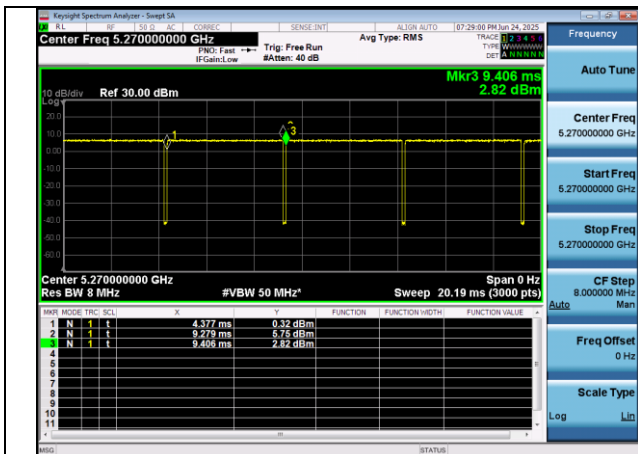
- The test plots as follows:



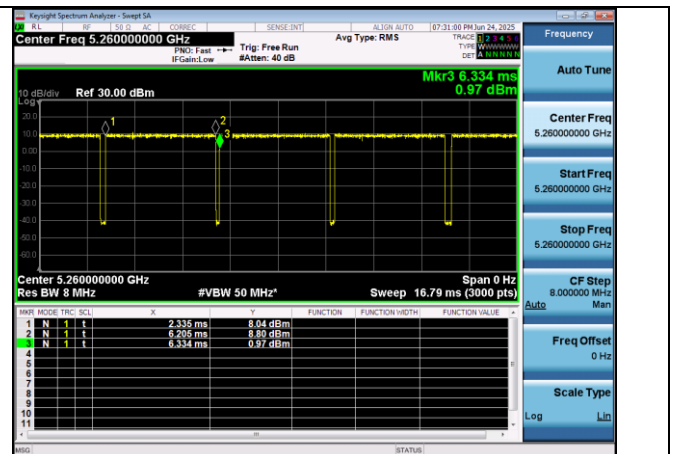
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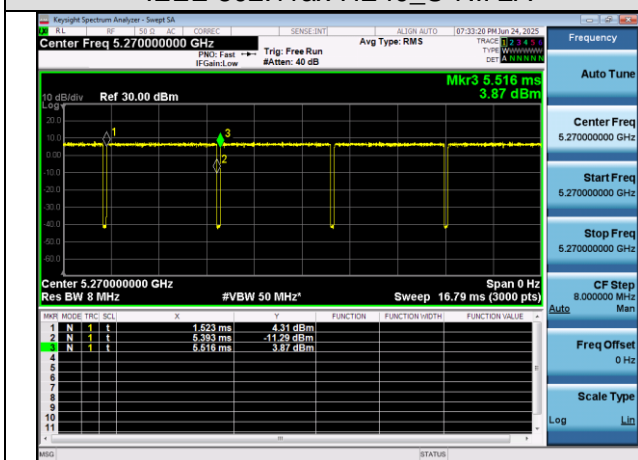
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IEEE 802.11ax-HE40_U-NII 2A



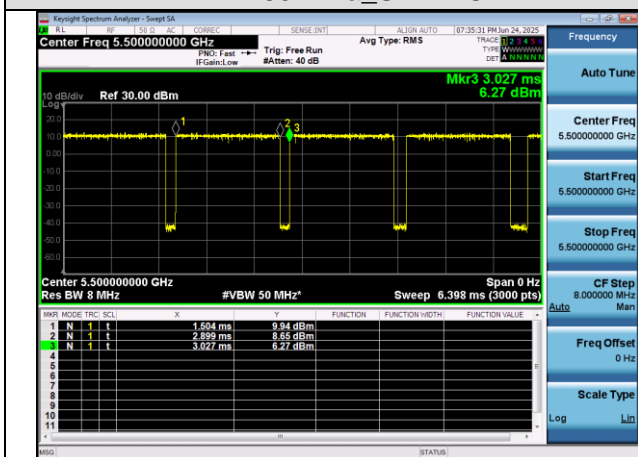
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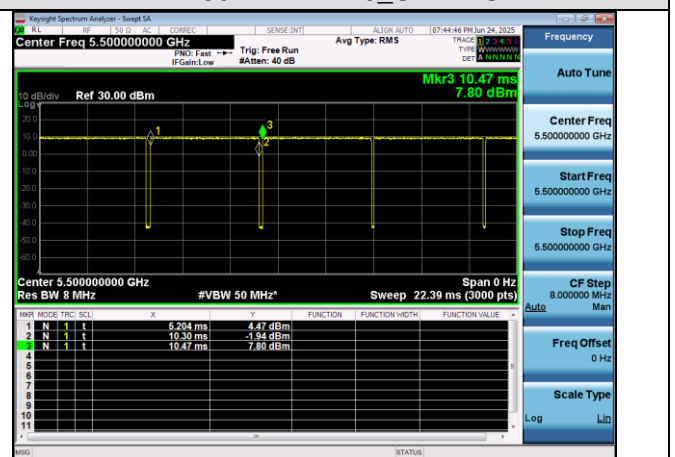
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IEEE 802.11a_U-NII 2C

IEEE 802.11n-HT20_U-NII 2C



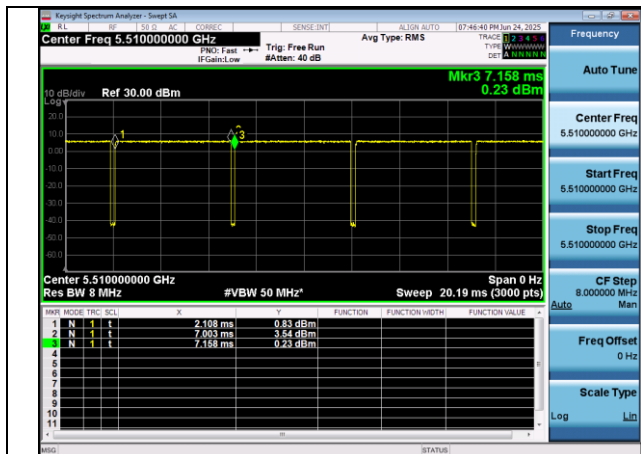
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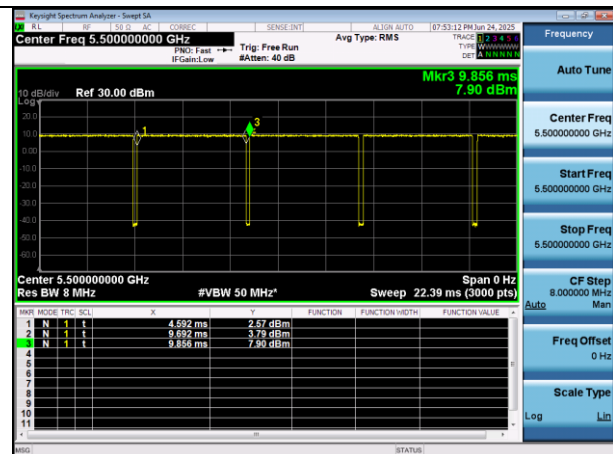
IEEE 802.11ac-VHT20_U-NII 2C

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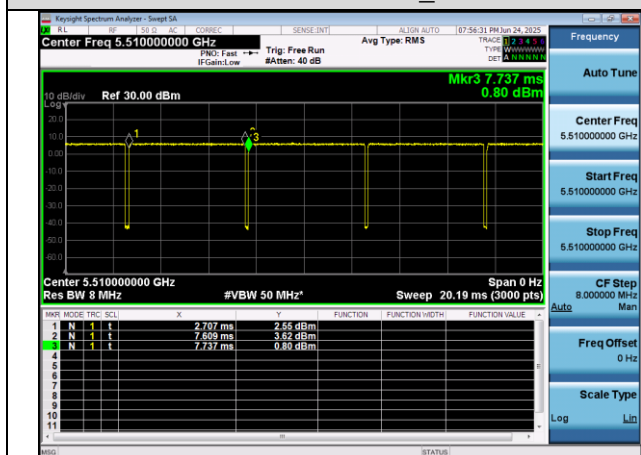
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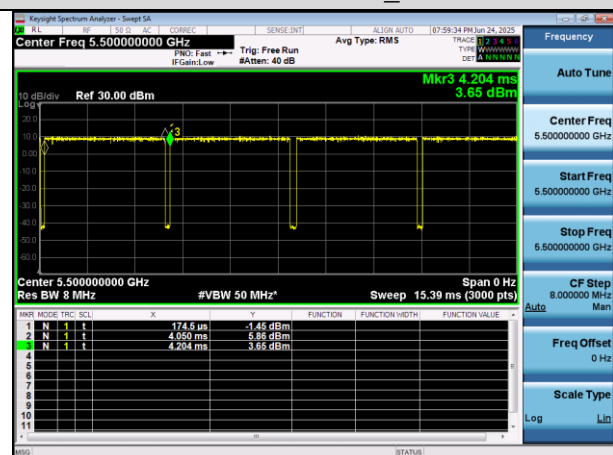
IEEE 802.11ac-VHT40_U-NII 2C



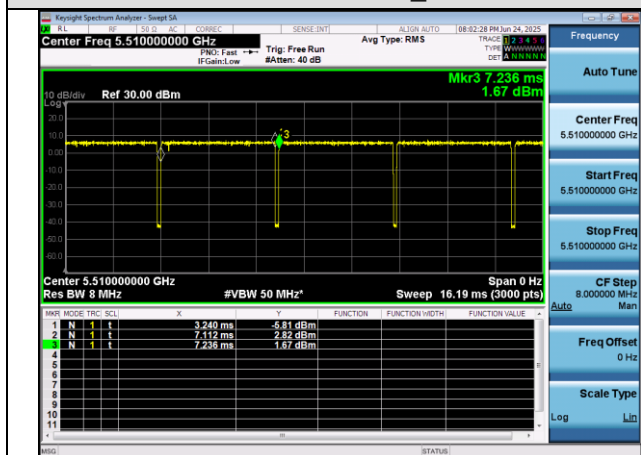
IEEE 802.11ax-HE20_U-NII 2C



IEEE 802.11ax-HE40_U-NII 2C

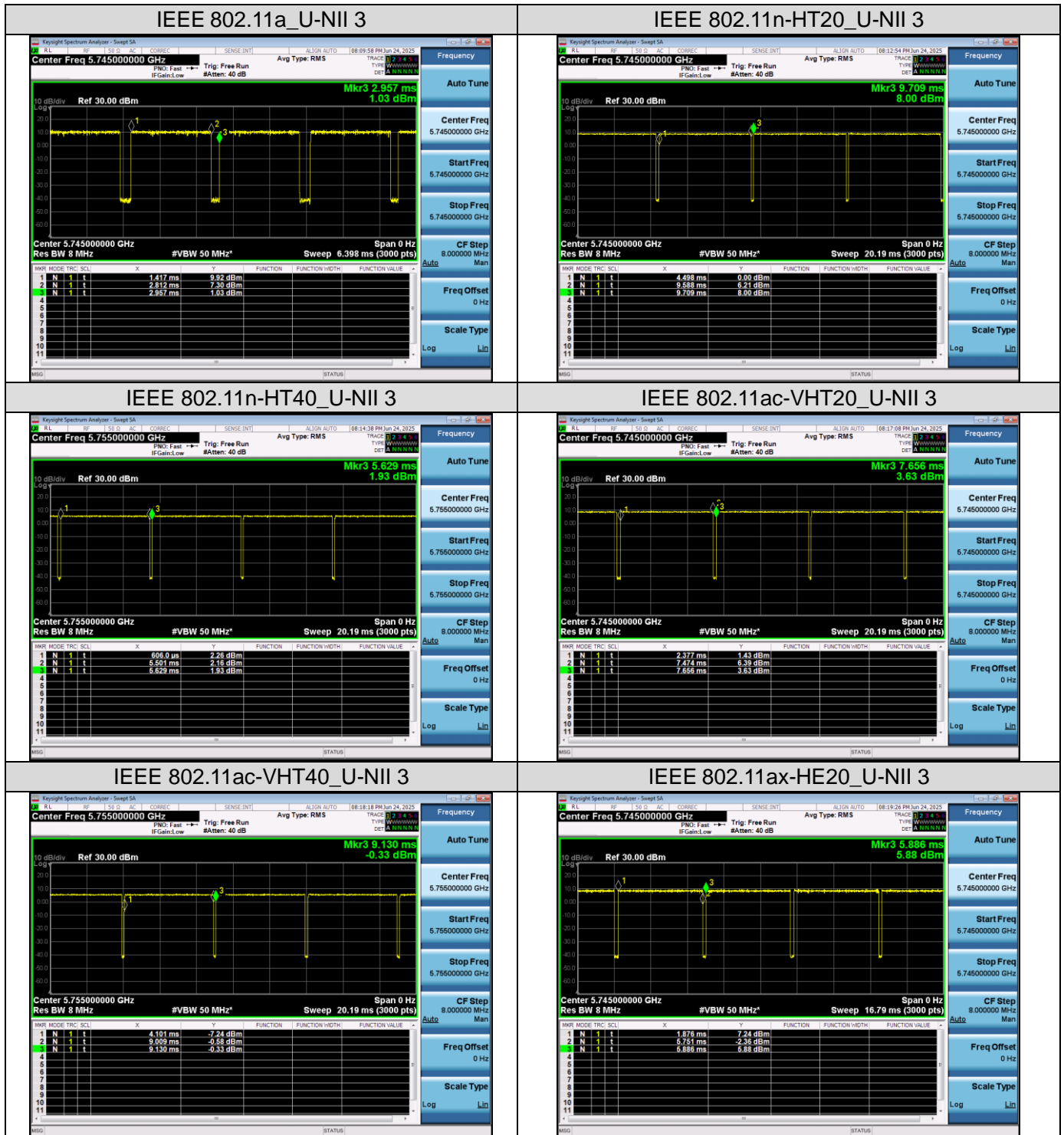


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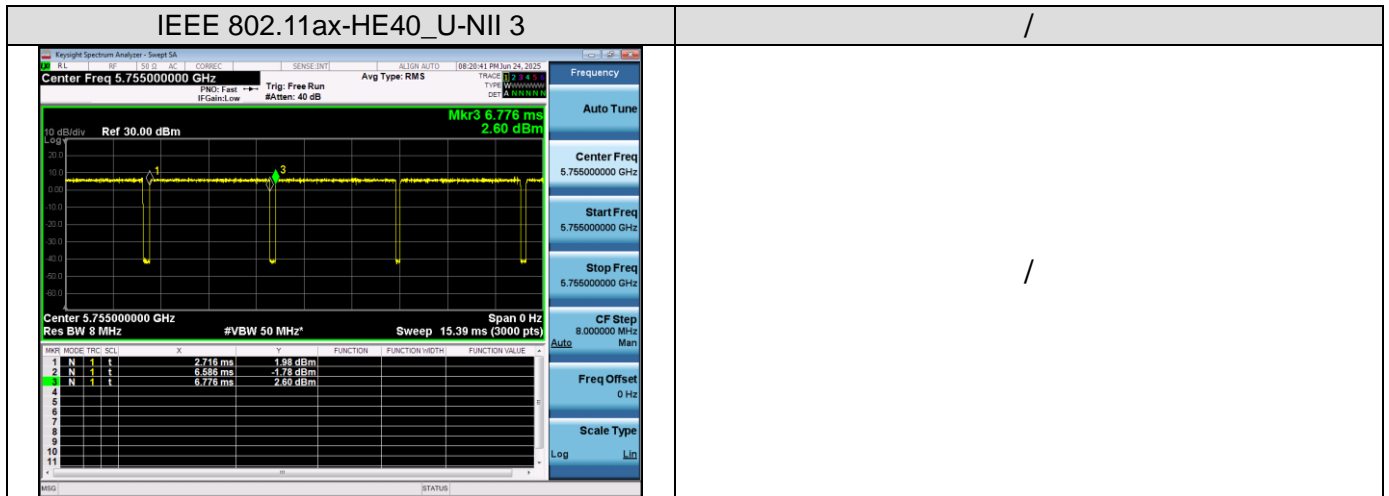


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7. RF Output Power Measurement

7.1 Provisions Applicable

Operation Band	EUT Category		LIMIT
U-NII-1	<input checked="" type="checkbox"/>	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)
	<input type="checkbox"/>	Fixed point-to-point Access Point	1 Watt (30 dBm)
	<input type="checkbox"/>	Indoor Access Point	1 Watt (30 dBm)
	<input type="checkbox"/>	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)

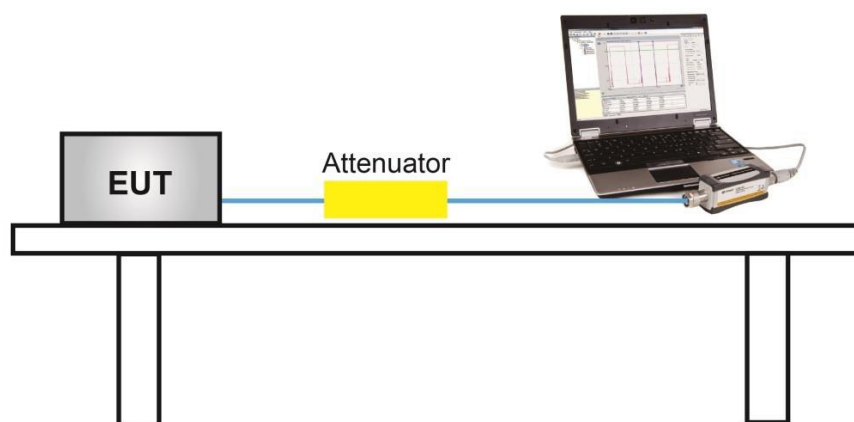
Note: Where B is the 26dB emission bandwidth in MHz.

7.2 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. The final test results have been increased by the duty cycle factor and recorded in the report.

7.3 Measurement Setup (Block Diagram of Configuration)



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7.4 Measurement Result

Test Data of Conducted Output Power for band 5.15-5.25 GHz				
Test Mode	Test Frequency (MHz)	Average Power (dBm)	Limits (dBm)	Result
802.11a	5180	12.54	23.98	Pass
	5200	12.55	23.98	Pass
	5240	13.04	23.98	Pass
802.11n20	5180	11.31	23.98	Pass
	5200	11.58	23.98	Pass
	5240	11.87	23.98	Pass
802.11n40	5190	11.28	23.98	Pass
	5230	11.72	23.98	Pass
802.11ac20	5180	11.30	23.98	Pass
	5200	11.66	23.98	Pass
	5240	11.84	23.98	Pass
802.11ac40	5190	11.52	23.98	Pass
	5230	11.82	23.98	Pass
802.11ax20	5180	11.14	23.98	Pass
	5200	11.37	23.98	Pass
	5240	11.68	23.98	Pass
802.11ax40	5190	11.49	23.98	Pass
	5230	11.76	23.98	Pass

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Test Data of Conducted Output Power for band 5.25-5.35 GHz				
Test Mode	Test Frequency (MHz)	Average Power (dBm)	Limits (dBm)	Result
802.11a	5260	12.96	23.98	Pass
	5300	13.70	23.98	Pass
	5320	13.80	23.98	Pass
802.11n20	5260	12.01	23.98	Pass
	5300	12.51	23.98	Pass
	5320	12.60	23.98	Pass
802.11n40	5270	12.29	23.98	Pass
	5310	12.60	23.98	Pass
802.11ac20	5260	12.06	23.98	Pass
	5300	12.46	23.98	Pass
	5320	12.51	23.98	Pass
802.11ac40	5270	12.19	23.98	Pass
	5310	12.50	23.98	Pass
802.11ax20	5260	12.07	23.98	Pass
	5300	12.39	23.98	Pass
	5320	12.55	23.98	Pass
802.11ax40	5270	12.23	23.98	Pass
	5310	12.53	23.98	Pass

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Test Data of Conducted Output Power for band 5.470-5.725 GHz				
Test Mode	Test Frequency (MHz)	Average Power (dBm)	Limits (dBm)	Result
802.11a	5500	13.27	23.98	Pass
	5580	11.43	23.98	Pass
	5700	9.11	23.98	Pass
802.11n20	5500	12.36	23.98	Pass
	5580	10.19	23.98	Pass
	5700	8.13	23.98	Pass
802.11n40	5510	11.98	23.98	Pass
	5590	11.56	23.98	Pass
	5670	8.61	23.98	Pass
802.11ac20	5500	12.14	23.98	Pass
	5580	10.17	23.98	Pass
	5700	8.01	23.98	Pass
802.11ac40	5510	11.93	23.98	Pass
	5590	11.63	23.98	Pass
	5670	8.71	23.98	Pass
802.11ax20	5500	12.06	23.98	Pass
	5580	10.17	23.98	Pass
	5700	8.02	23.98	Pass
802.11ax40	5510	11.95	23.98	Pass
	5590	11.47	23.98	Pass
	5670	8.52	23.98	Pass

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Test Data of Conducted Output Power for band 5.725-5.850 GHz				
Test Mode	Test Frequency (MHz)	Average Power (dBm)	Limits (dBm)	Result
802.11a	5745	12.72	30	Pass
	5785	12.55	30	Pass
	5825	12.30	30	Pass
802.11n20	5745	11.58	30	Pass
	5785	11.14	30	Pass
	5825	11.03	30	Pass
802.11n40	5755	11.54	30	Pass
	5795	11.19	30	Pass
802.11ac20	5745	11.57	30	Pass
	5785	11.20	30	Pass
	5825	11.01	30	Pass
802.11ac40	5755	11.63	30	Pass
	5795	11.22	30	Pass
802.11ax20	5745	11.38	30	Pass
	5785	11.13	30	Pass
	5825	10.93	30	Pass
802.11ax40	5755	11.59	30	Pass
	5795	11.11	30	Pass

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8. DTS Bandwidth & EBW Bandwidth Measurement

8.1 Provisions Applicable

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

8.2 Measurement Procedure

◆ -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 $\geq 3 \times$ 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 Test setting:

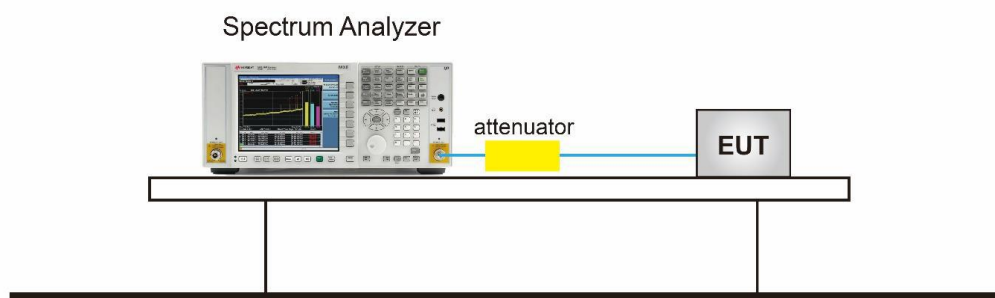
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall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

◆ -26dB Bandwidth (EBW Bandwidth) Test setting:

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

8.3 Measurement Setup (Block Diagram of Configuration)



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8.4 Measurement Results

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz					
Test Mode	Test Frequency (MHz)	99% Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Result
802.11a	5180	16.551	22.667	N/A	Pass
	5200	16.587	22.580	N/A	Pass
	5240	16.567	22.744	N/A	Pass
802.11n20	5180	17.830	23.932	N/A	Pass
	5200	17.796	23.762	N/A	Pass
	5240	17.764	24.125	N/A	Pass
802.11n40	5190	36.223	43.795	N/A	Pass
	5230	36.347	44.692	N/A	Pass
802.11ac20	5180	17.791	24.319	N/A	Pass
	5200	17.740	23.040	N/A	Pass
	5240	17.770	24.840	N/A	Pass
802.11ac40	5190	36.319	44.300	N/A	Pass
	5230	36.322	44.848	N/A	Pass
802.11ax20	5180	18.965	23.594	N/A	Pass
	5200	18.983	22.749	N/A	Pass
	5240	19.018	23.326	N/A	Pass
802.11ax40	5190	37.713	42.266	N/A	Pass
	5230	37.820	44.592	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 Frequency (MHz)	99% Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Result
802.11a	5260	16.591	22.715	N/A	Pass
	5300	16.638	23.444	N/A	Pass
	5320	16.632	22.096	N/A	Pass
802.11n20	5260	17.746	23.669	N/A	Pass
	5300	17.818	22.930	N/A	Pass
	5320	17.799	23.423	N/A	Pass
802.11n40	5270	36.239	42.419	N/A	Pass
	5310	36.225	44.622	N/A	Pass
802.11ac20	5260	17.748	24.117	N/A	Pass
	5300	17.796	23.762	N/A	Pass
	5320	17.861	24.295	N/A	Pass
802.11ac40	5270	36.269	43.492	N/A	Pass
	5310	36.307	45.618	N/A	Pass
802.11ax20	5260	18.991	23.747	N/A	Pass
	5300	19.013	23.727	N/A	Pass
	5320	18.979	23.803	N/A	Pass
802.11ax40	5270	37.752	43.294	N/A	Pass
	5310	37.774	41.922	N/A	Pass

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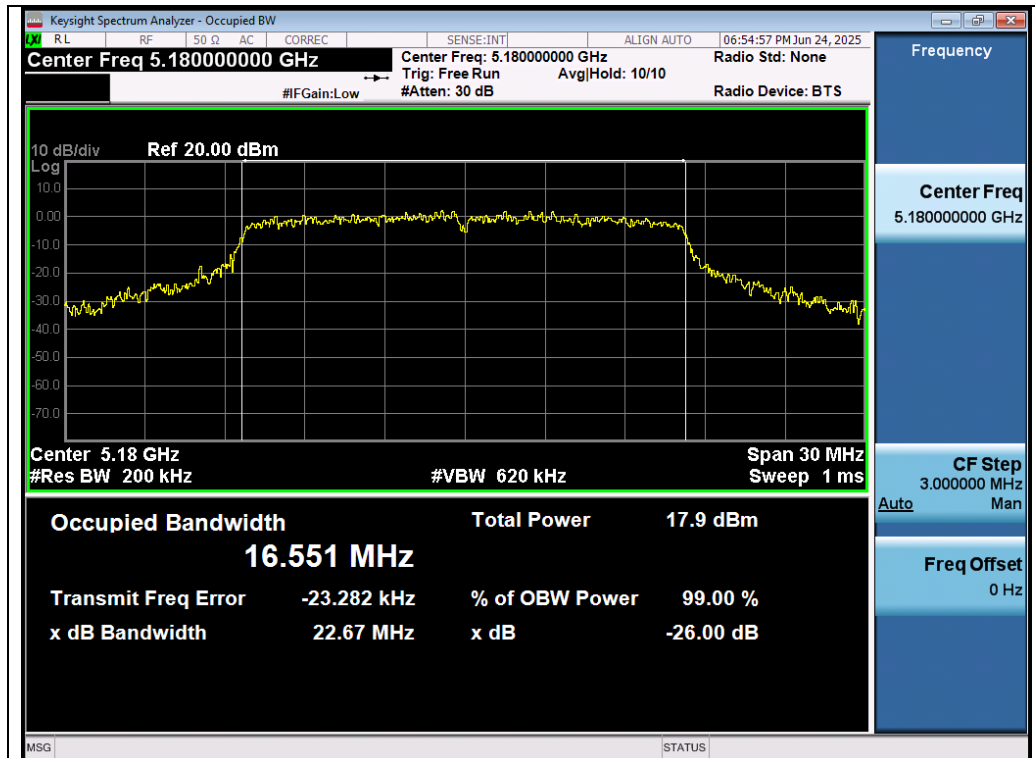
Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz					
Test Mode	Test Frequency (MHz)	99% Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Result
802.11a	5500	16.551	22.667	N/A	Pass
	5600	16.587	22.580	N/A	Pass
	5700	16.567	22.744	N/A	Pass
802.11n20	5500	17.830	23.932	N/A	Pass
	5600	17.796	23.762	N/A	Pass
	5700	17.764	24.125	N/A	Pass
802.11n40	5510	36.353	44.564	N/A	Pass
	5590	36.216	45.245	N/A	Pass
	5670	36.275	43.865	N/A	Pass
802.11ac20	5500	17.791	24.319	N/A	Pass
	5600	17.740	23.040	N/A	Pass
	5700	17.770	24.840	N/A	Pass
802.11ac40	5510	36.319	44.300	N/A	Pass
	5590	36.322	44.848	N/A	Pass
	5670	36.379	44.762	N/A	Pass
802.11ax20	5500	19.004	24.701	N/A	Pass
	5600	19.046	24.374	N/A	Pass
	5700	19.038	25.993	N/A	Pass
802.11ax40	5510	37.827	43.234	N/A	Pass
	5590	37.859	42.716	N/A	Pass
	5670	37.833	45.025	N/A	Pass

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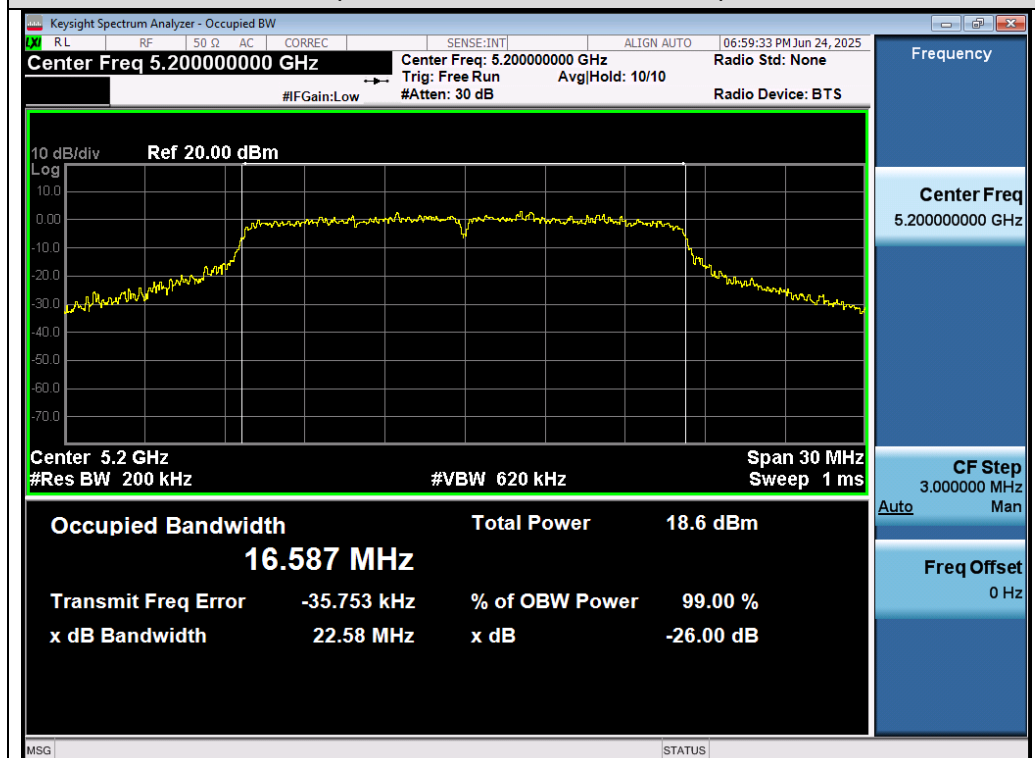
Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz					
Test Mode	Test Frequency (MHz)	99% Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Result
802.11a	5745	16.559	15.941	0.5	Pass
	5785	16.613	15.628	0.5	Pass
	5825	16.620	16.302	0.5	Pass
802.11n20	5745	17.884	17.584	0.5	Pass
	5785	17.748	17.661	0.5	Pass
	5825	17.772	17.550	0.5	Pass
802.11n40	5755	36.249	36.433	0.5	Pass
	5795	36.319	33.101	0.5	Pass
802.11ac20	5745	17.833	17.561	0.5	Pass
	5785	17.761	17.555	0.5	Pass
	5825	17.784	17.554	0.5	Pass
802.11ac40	5755	36.289	35.986	0.5	Pass
	5795	36.344	36.392	0.5	Pass
802.11ax20	5180	18.966	17.234	0.5	Pass
	5200	18.967	18.640	0.5	Pass
	5240	19.001	18.755	0.5	Pass
802.11ax40	5190	37.836	37.010	0.5	Pass
	5230	37.807	37.464	0.5	Pass

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

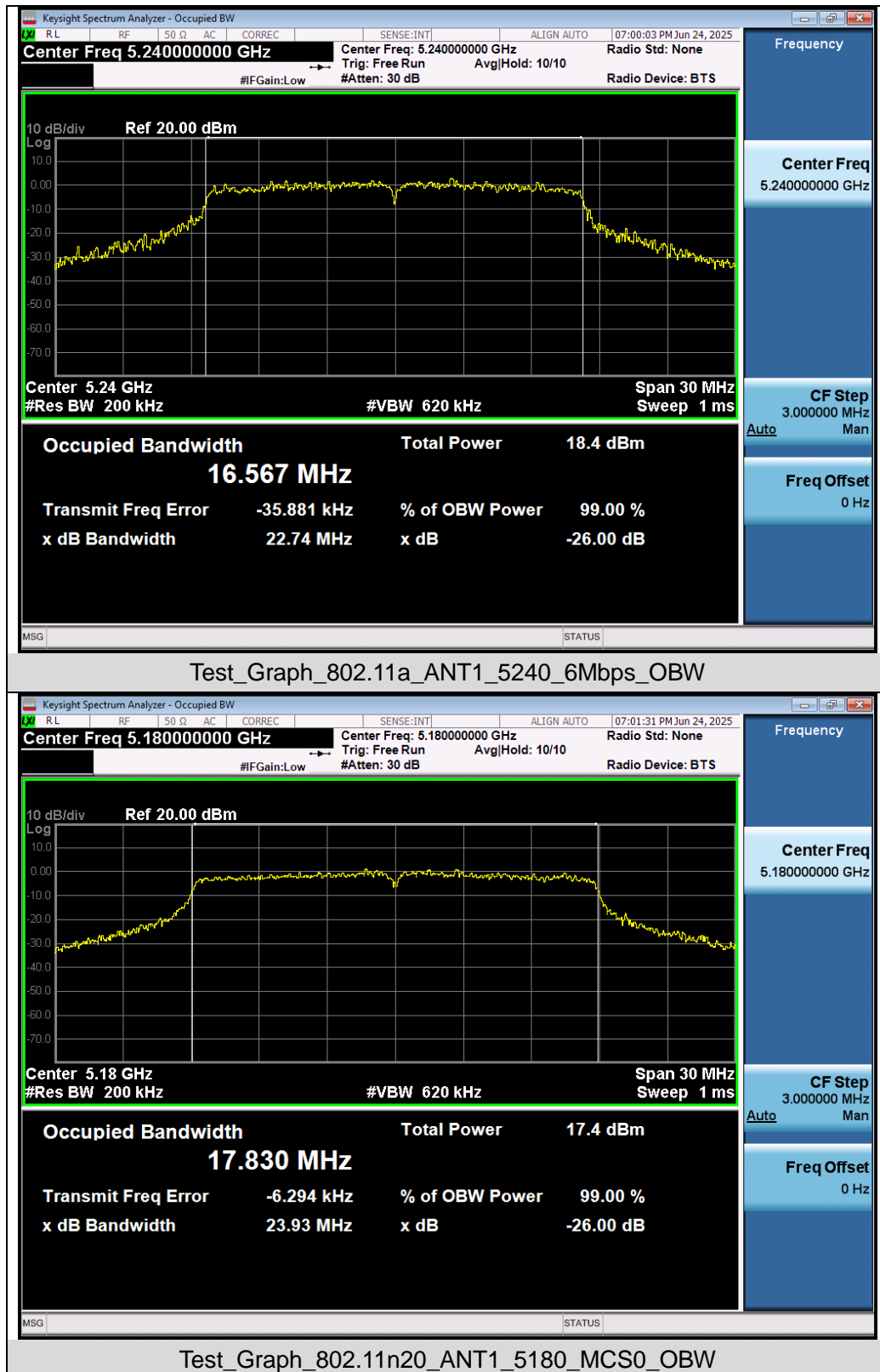


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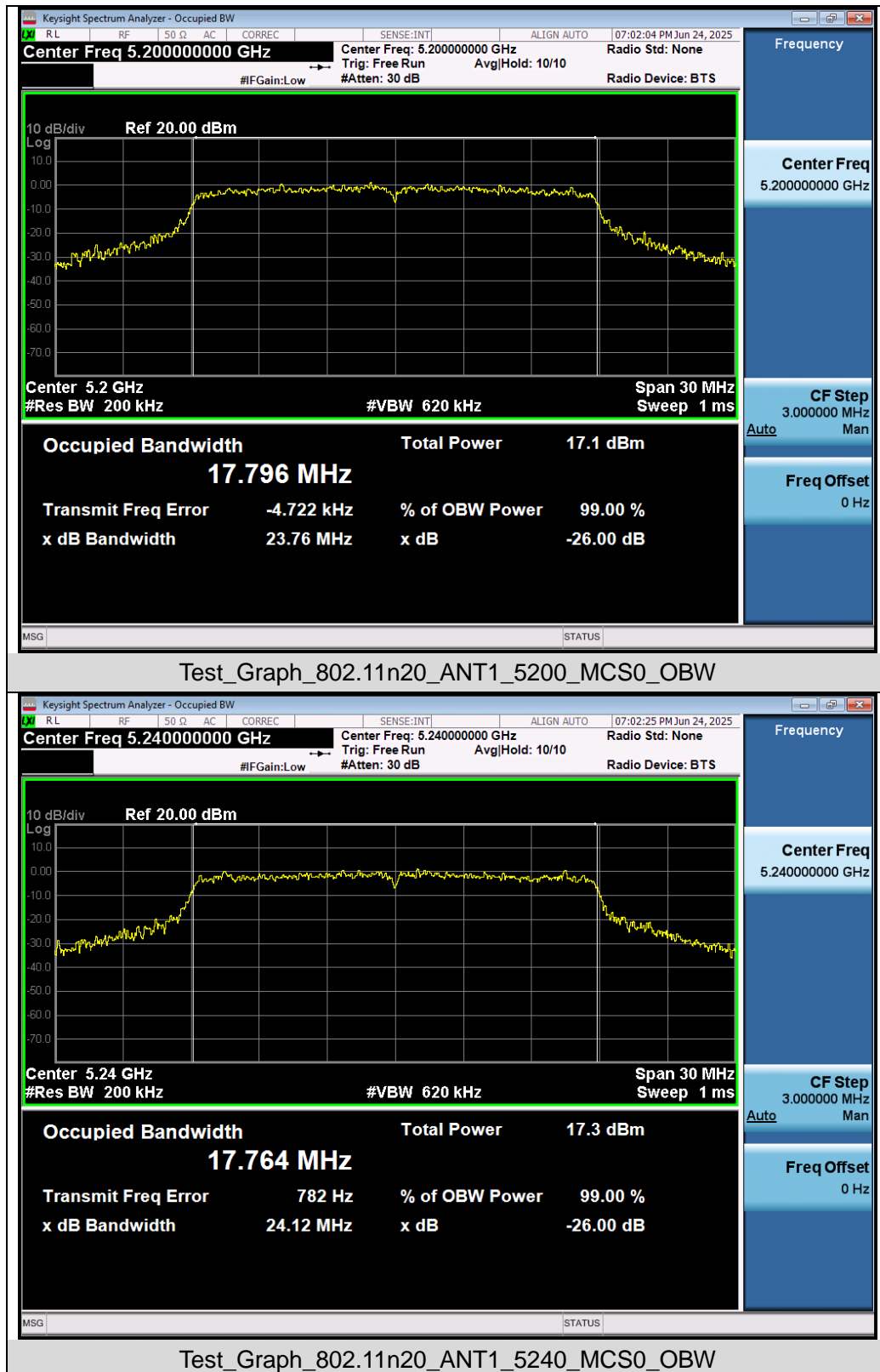


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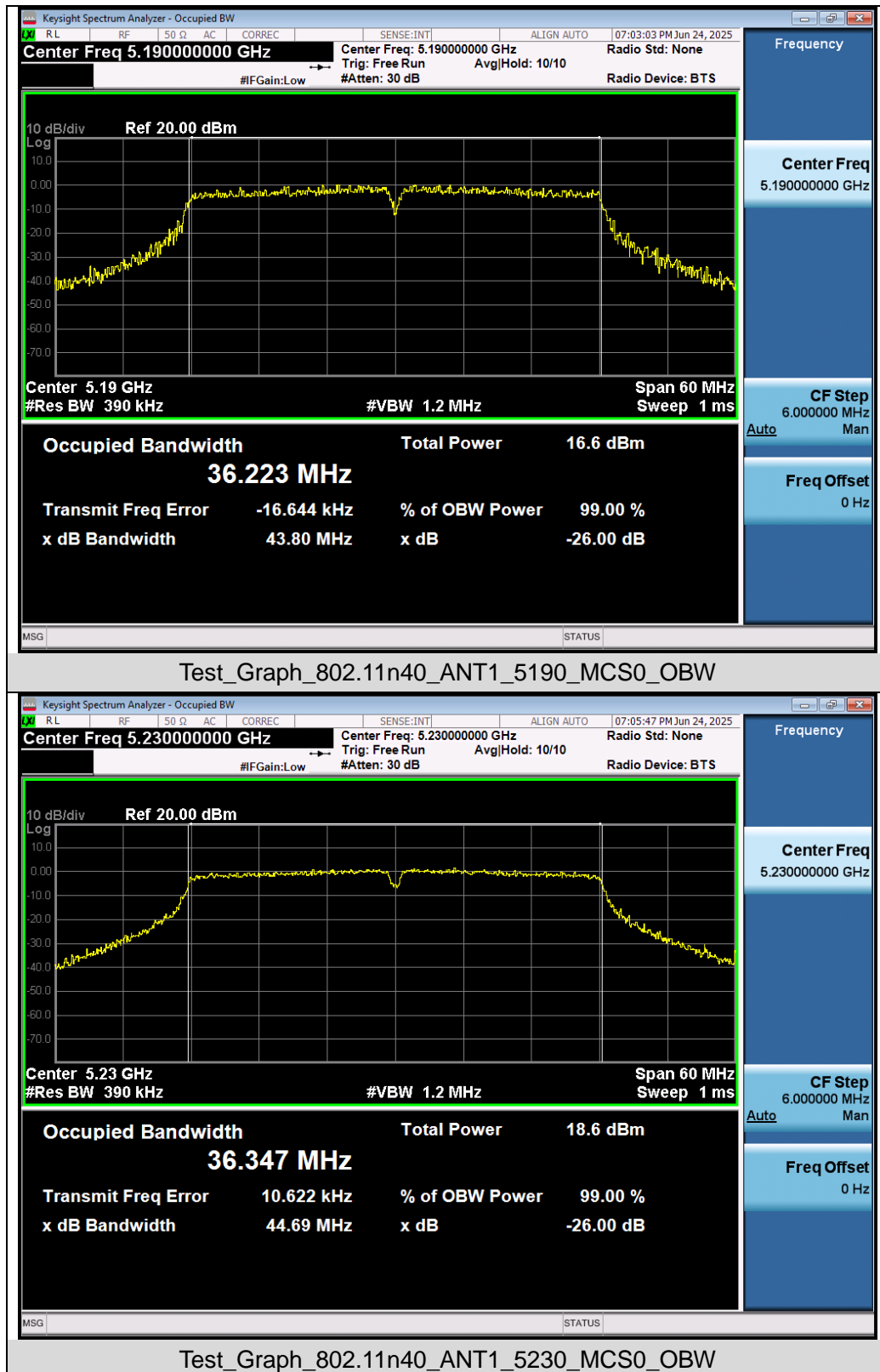
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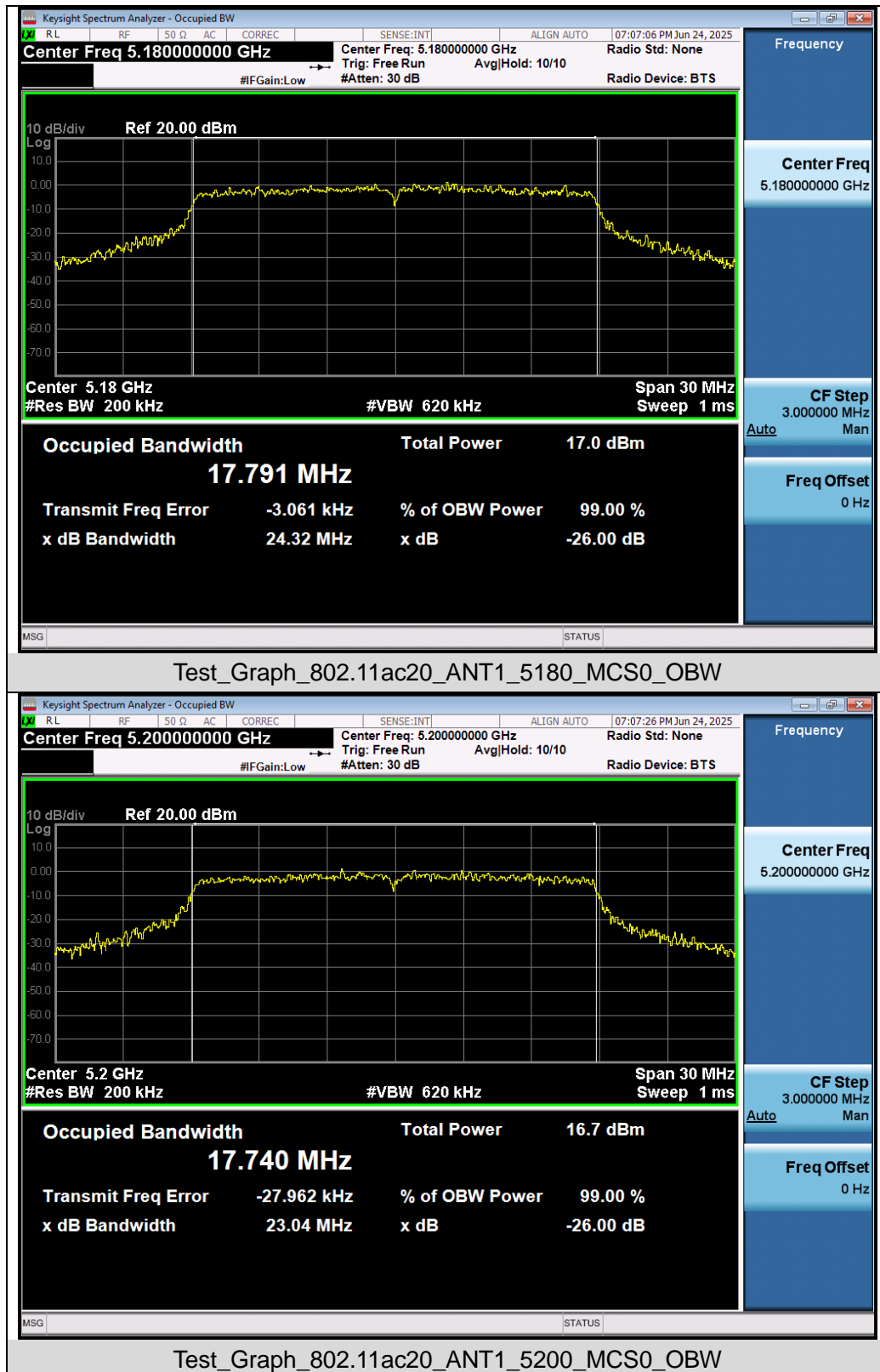
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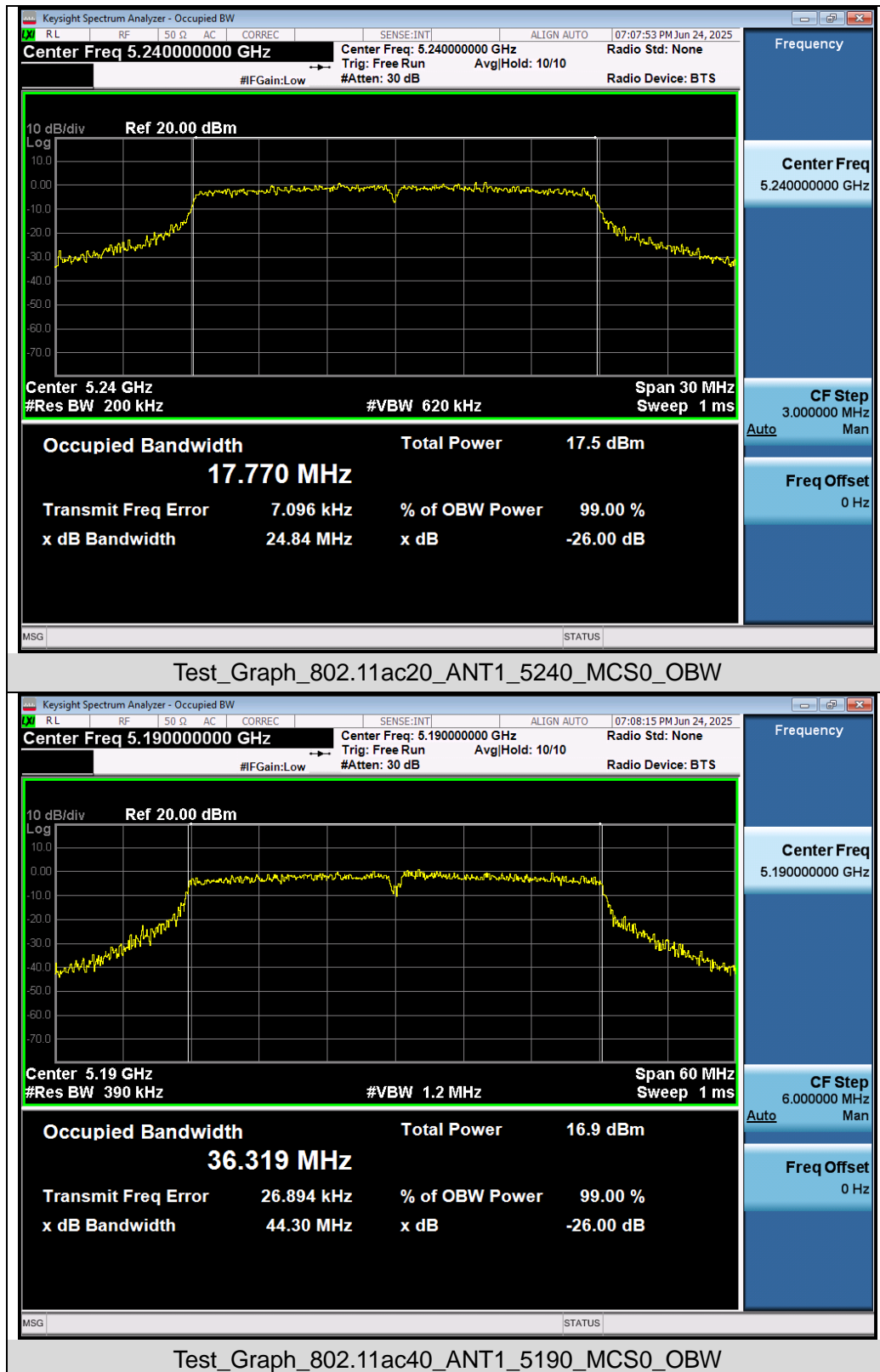
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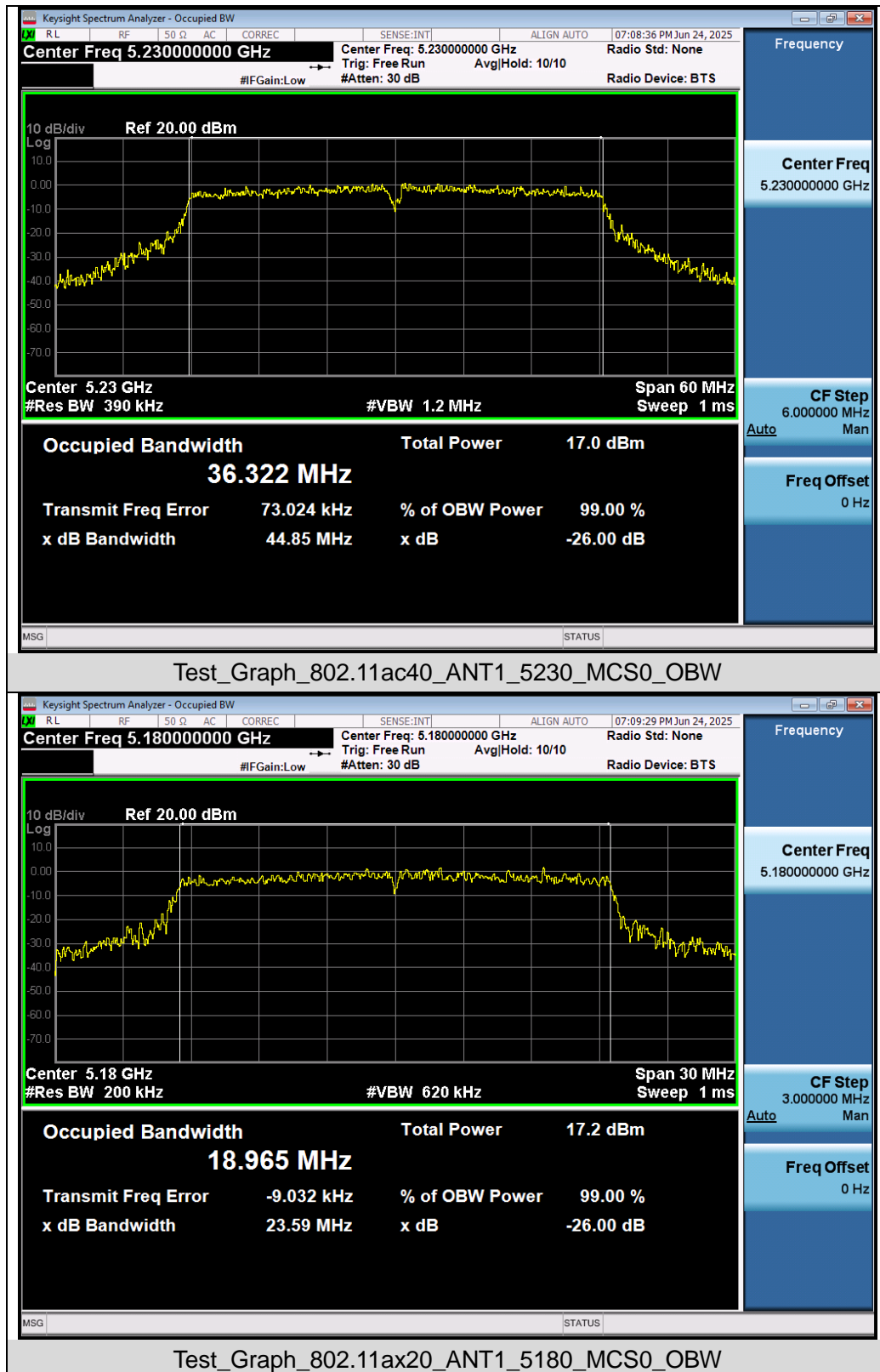
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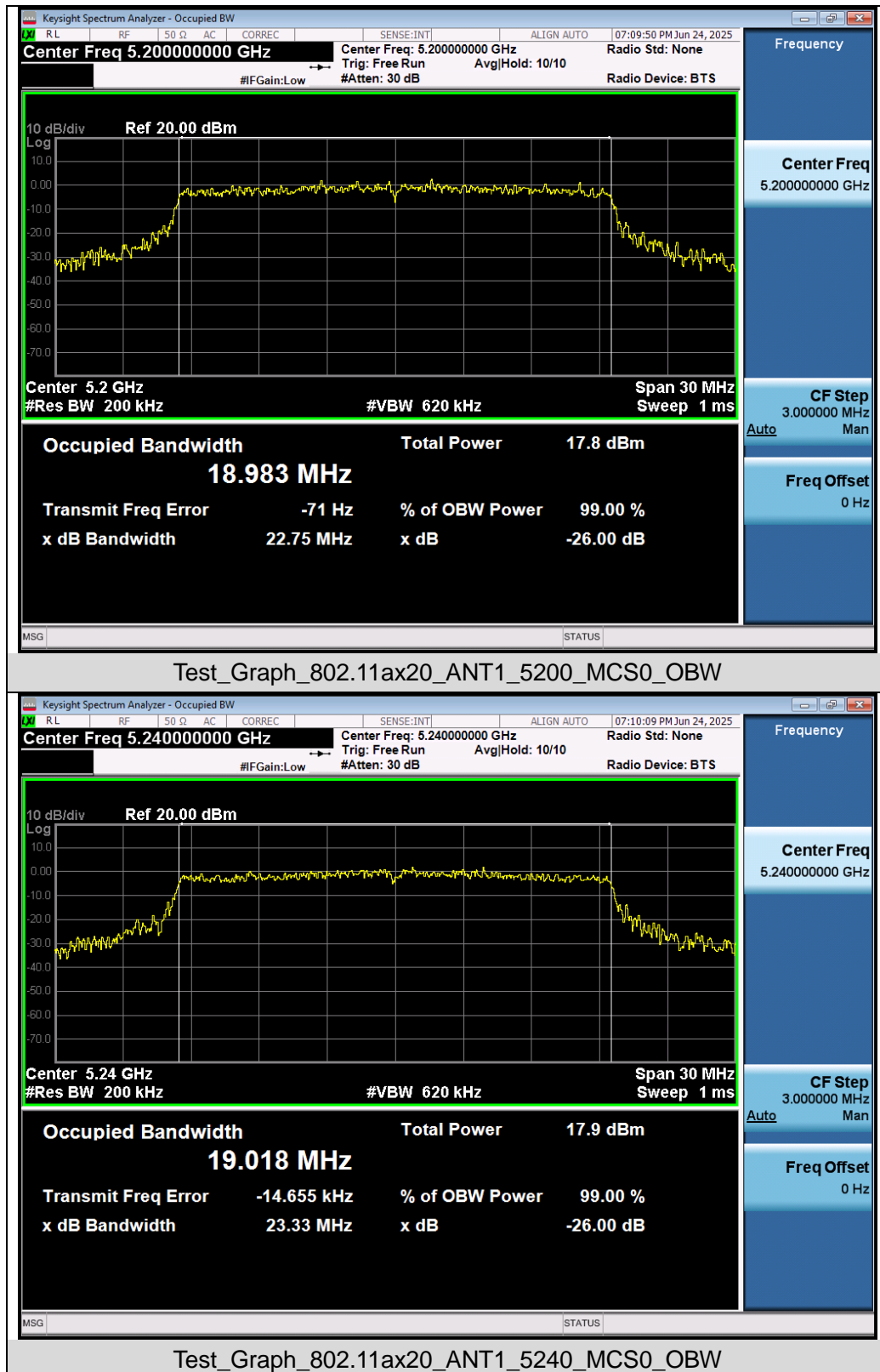


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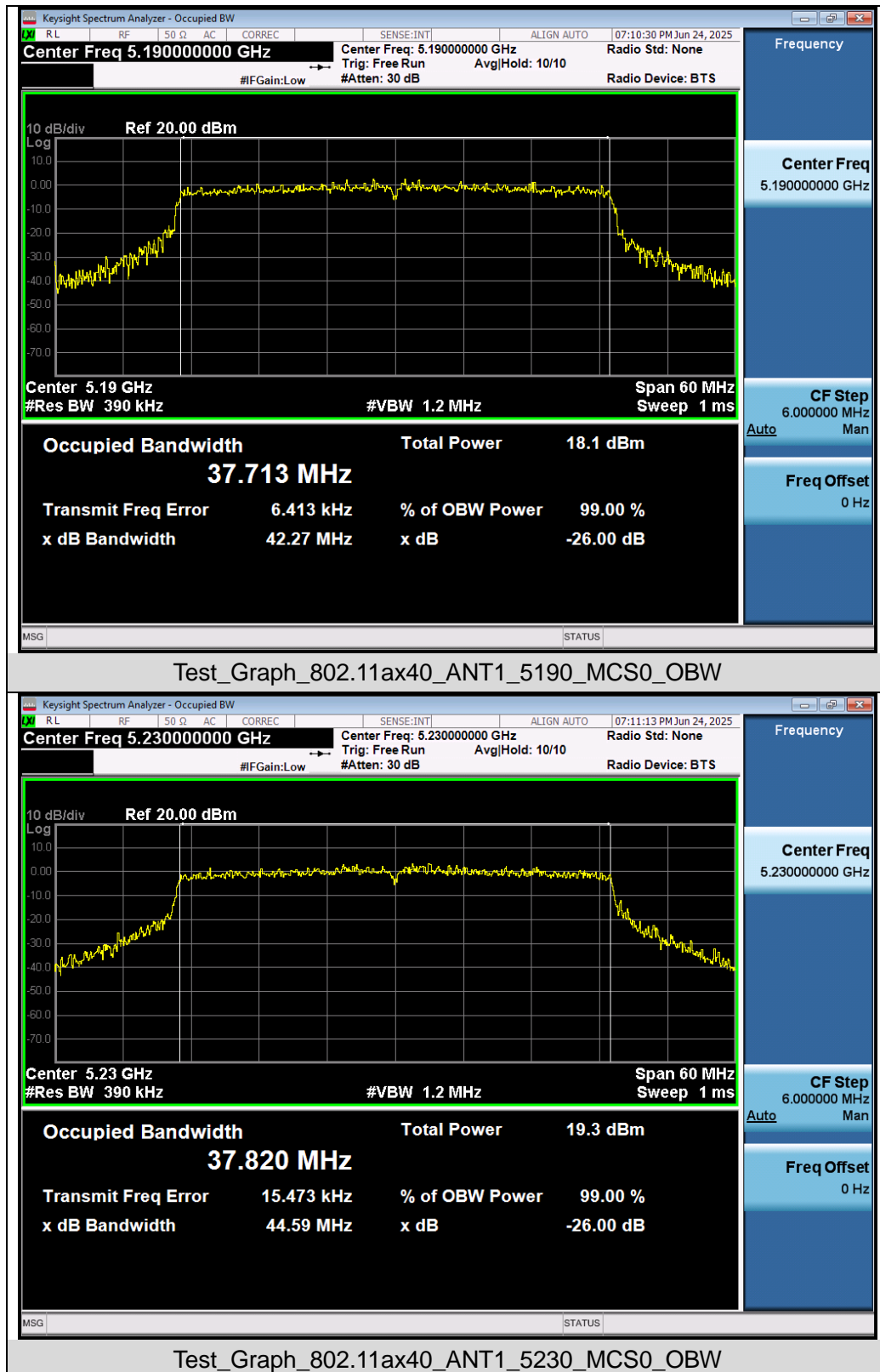


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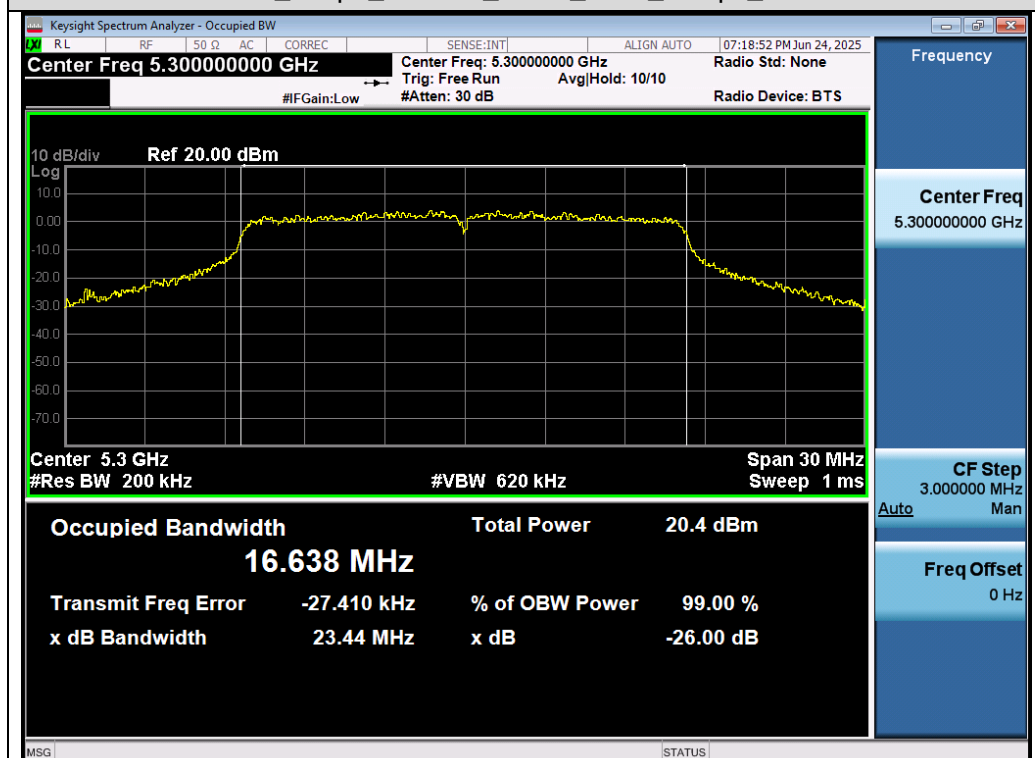


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Test Graphs of Occupied Bandwidth for band 5.25-5.35 GHz

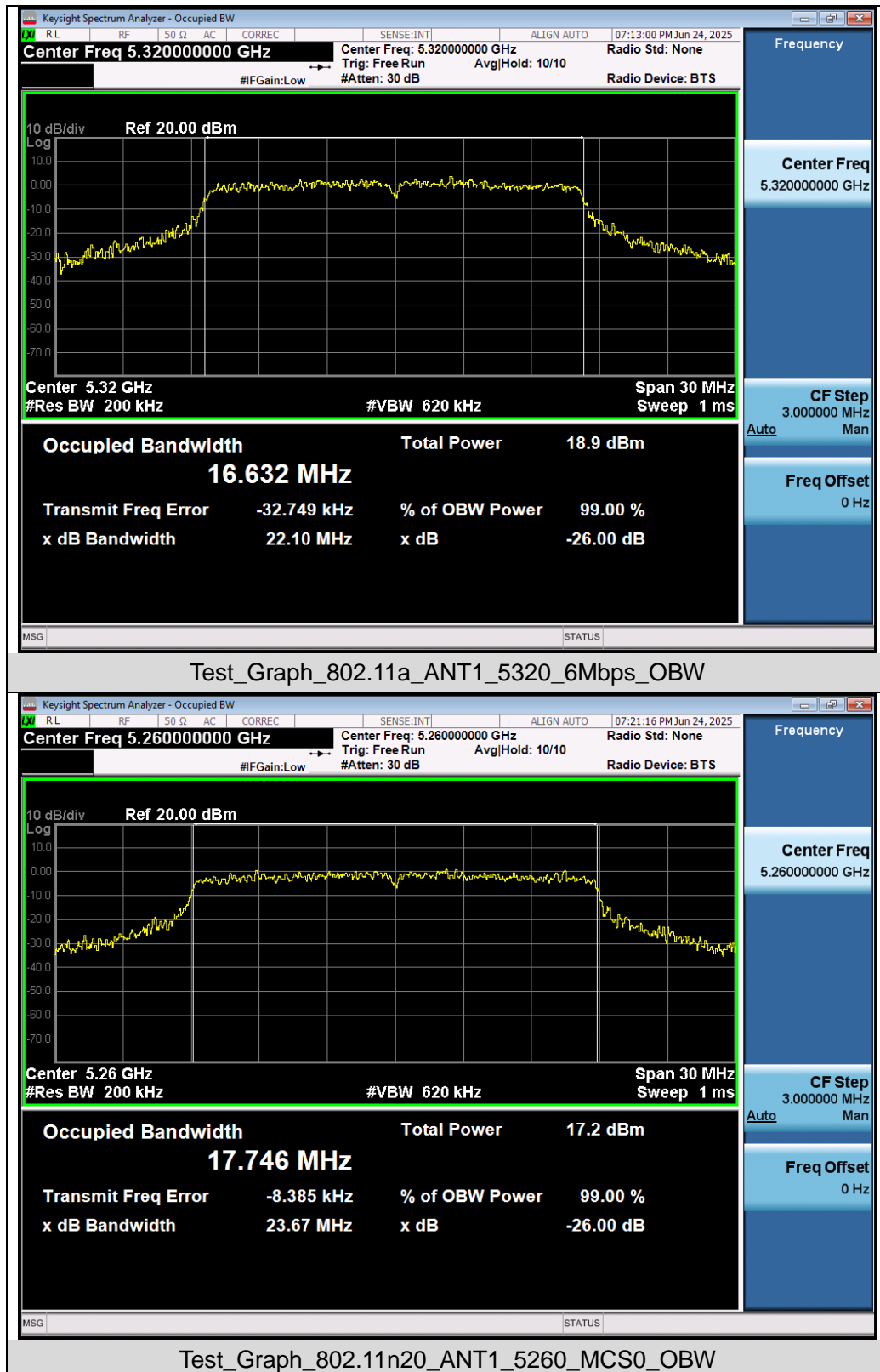


Test_Graph_802.11a_ANT1_5260_6Mbps_OBW

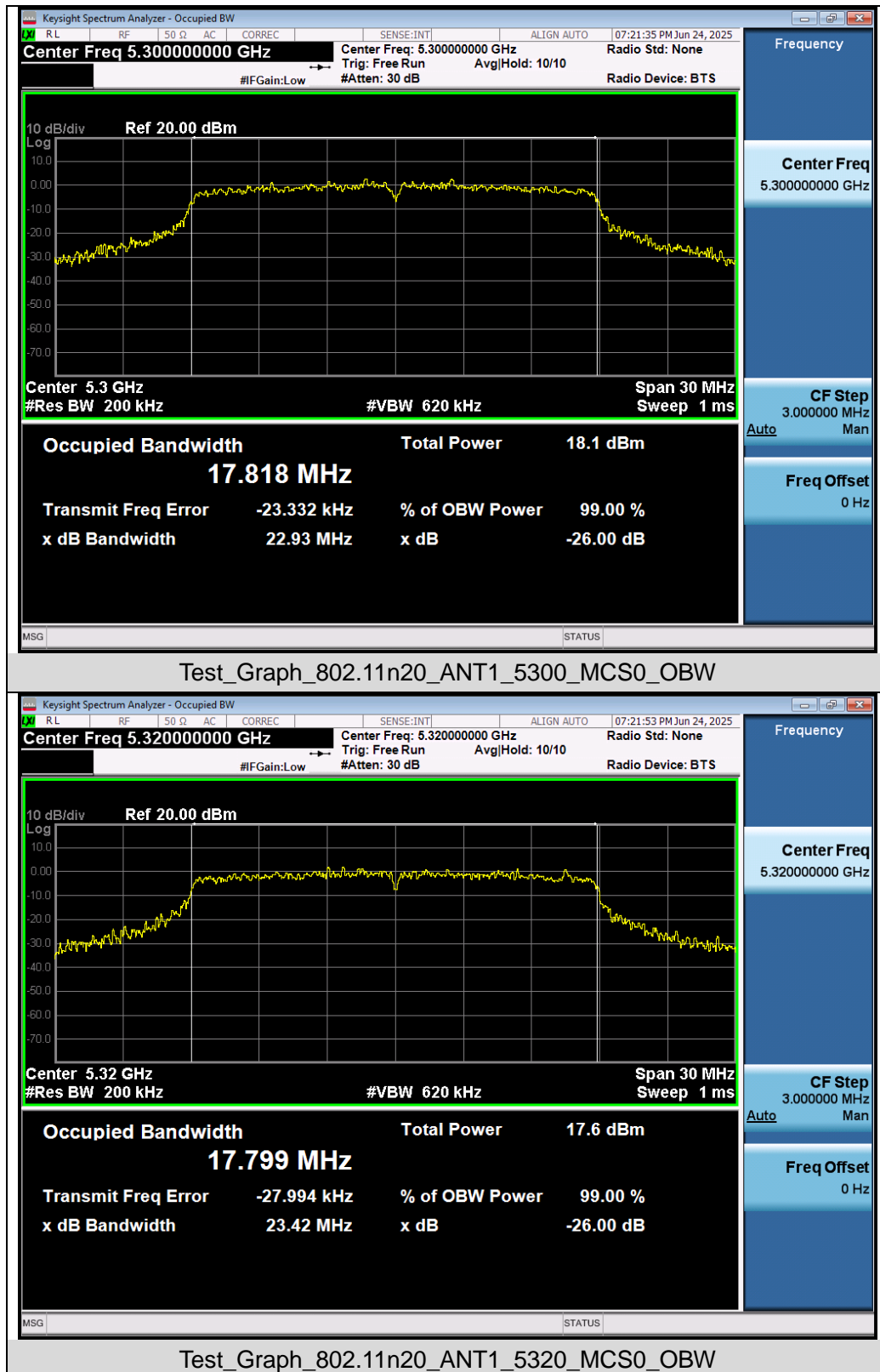


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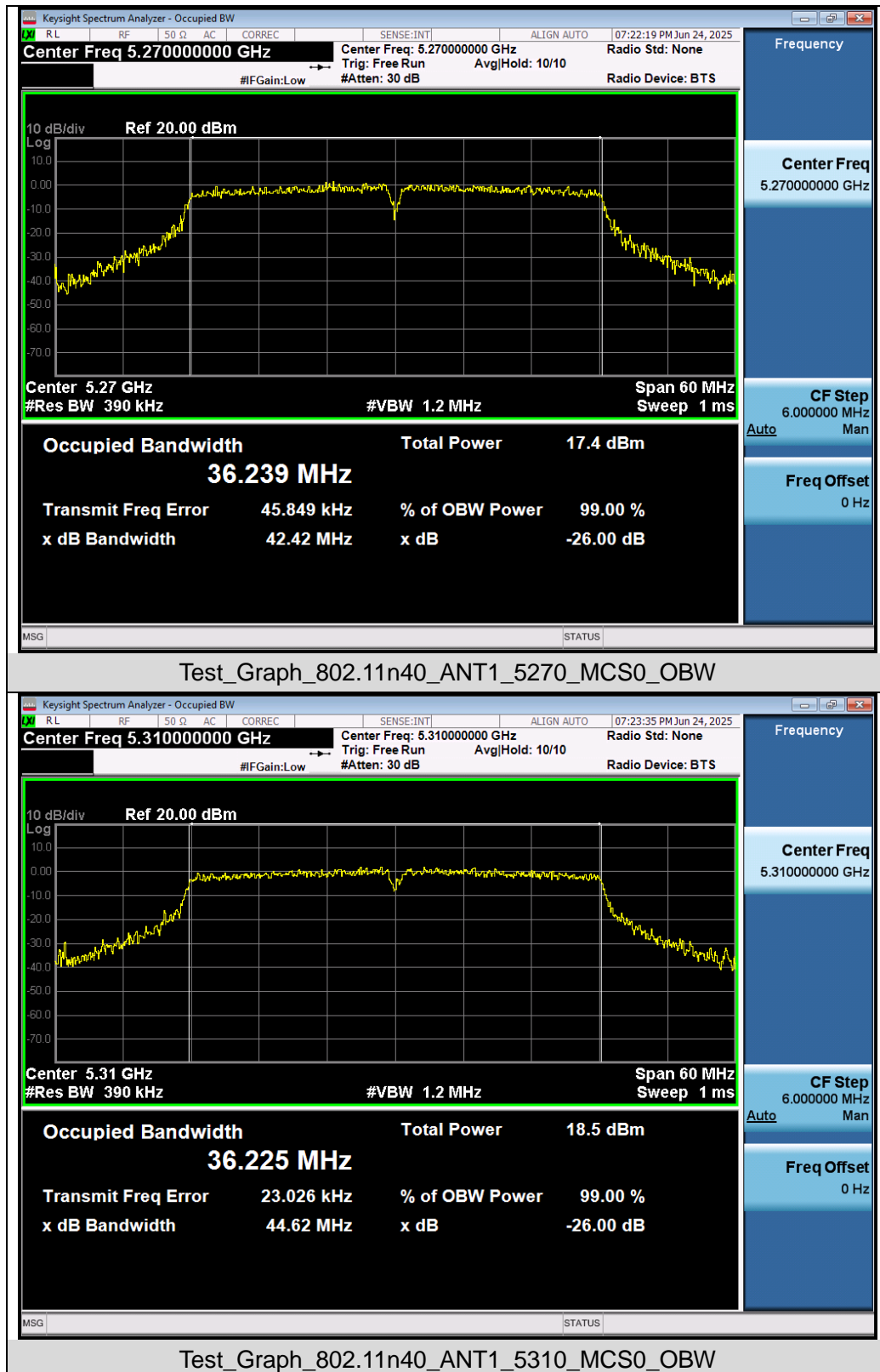
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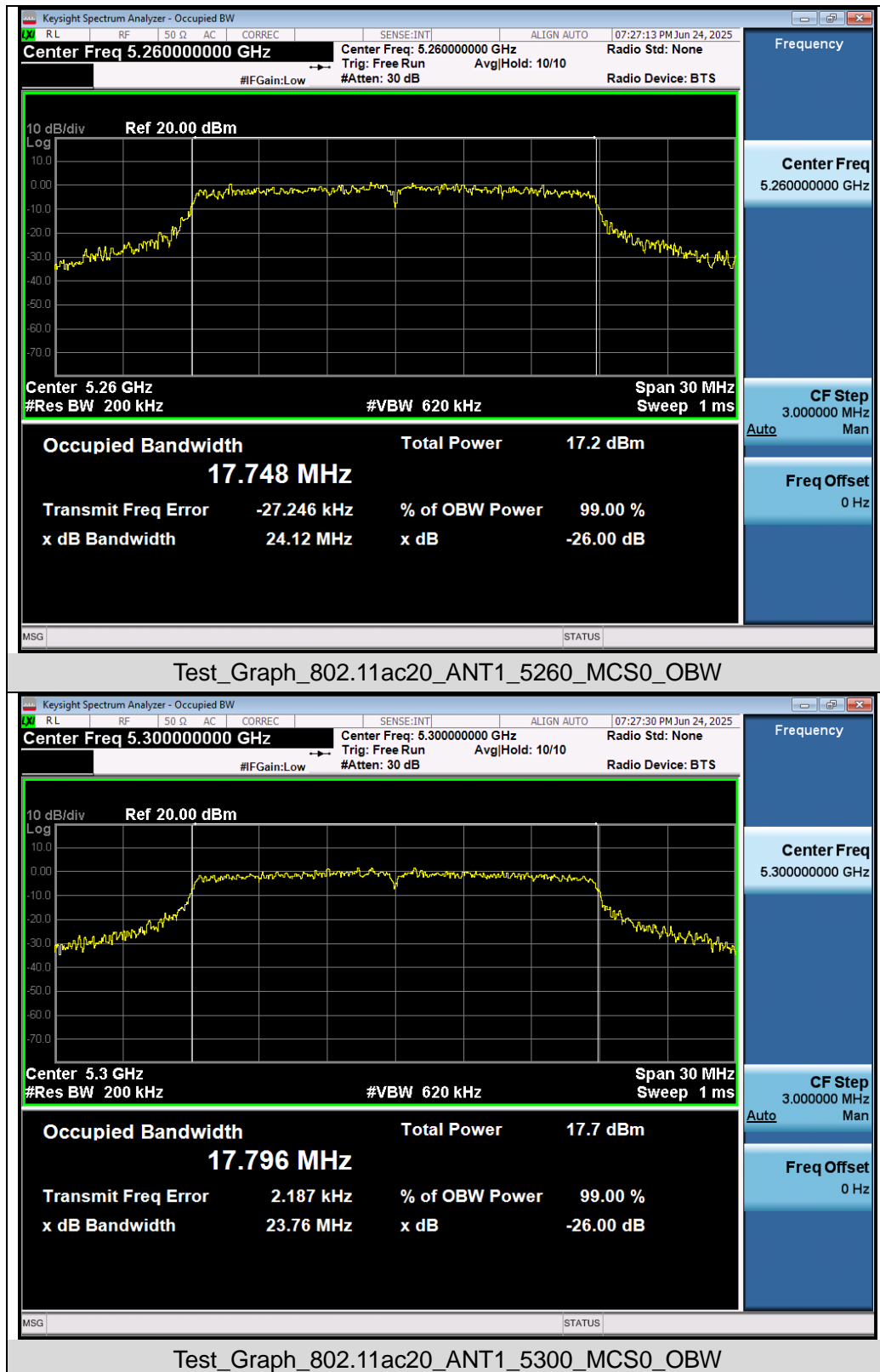


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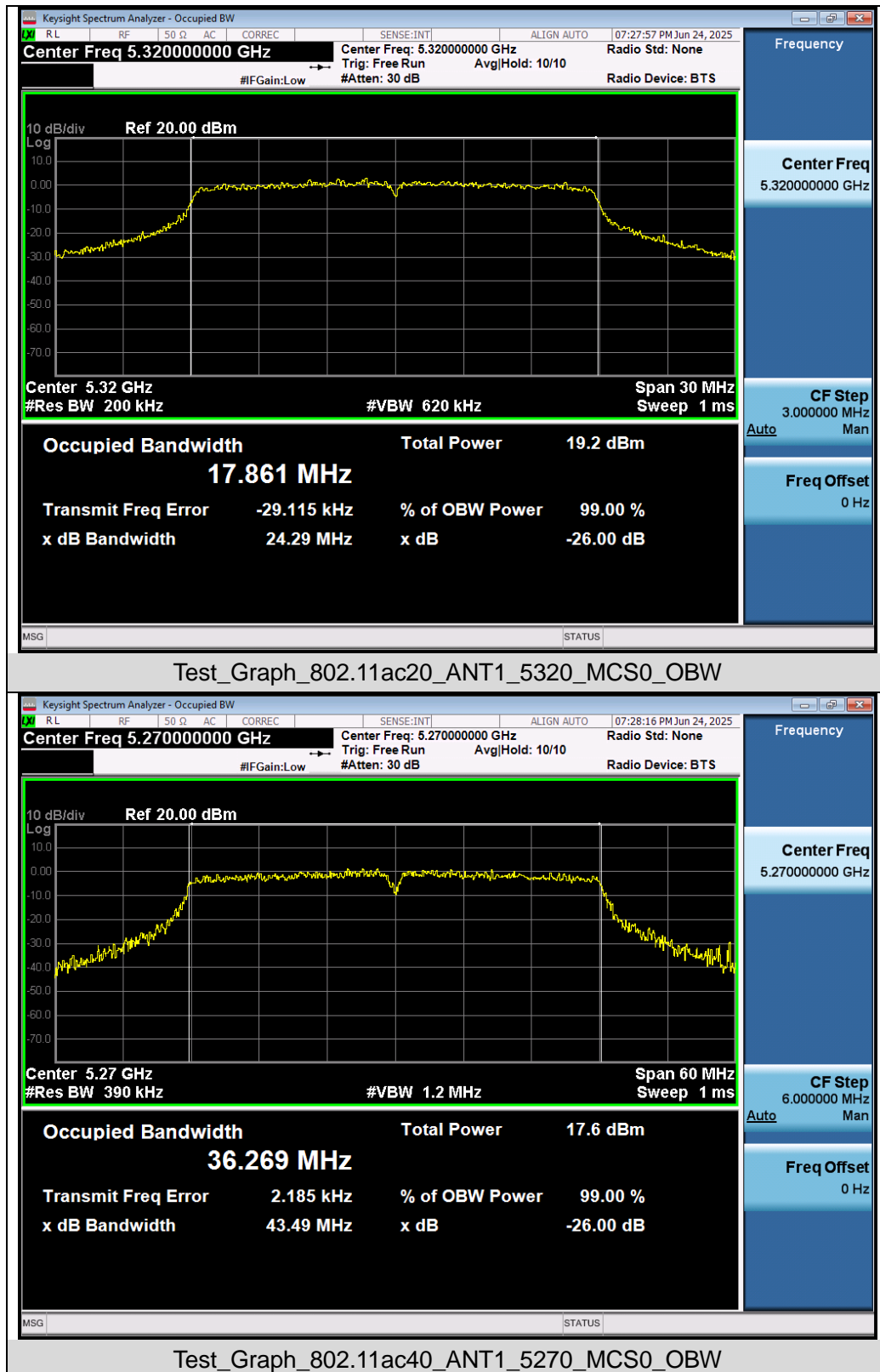


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