

FCC Test Report

Report No.: AGC01519250809FR04

FCC ID : IYAVREC-Z410

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Dash Camera

BRAND NAME : 

MODEL NAME : VREC-Z410DC, VREC-Z410PC, VREC-Z410SC,
VREC-Z410SH, VREC-Z410DH, VREC-Z410PH,
VREC-Z410PC-D, VREC-Z410DC-D, VREC-Z410DH-D,
VREC-Z410PH-D

APPLICANT : Pioneer Electronics (USA) Inc

DATE OF ISSUE : Oct. 21, 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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Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 21, 2025	Valid	Initial Release

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

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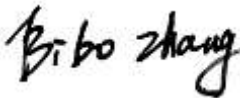
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1. General Information

Applicant	Pioneer Electronics (USA) Inc
Address	970 West 190th Street, Suite 360, Torrance, CA 90502, United States
Manufacturer	Pioneer India Electronics Private Limited
Address	Unit No: 3, 10th Floor, Ambience Corporate Tower-2 Plot No: 3, Ambience Island, NH-8 Gurugram, Haryana - 122002, India
Factory	APICAL VIETNAM TECHNOLOGY CO., LTD
Address	Lot E4, Thuan Thanh III Industrial Park, Subdivision B, Gia Dong Ward, Thuan Thanh Town, Bac Ninh Province, Vietnam
Product Designation	Dash Camera
Brand Name	
Test Model	VREC-Z410DC
Series Model(s)	VREC-Z410PC, VREC-Z410SC, VREC-Z410SH, VREC-Z410DH, VREC-Z410PH, VREC-Z410PC-D, VREC-Z410DC-D, VREC-Z410DH-D, VREC-Z410PH-D
Difference Description	Refer file of Model Difference Statement
Date of receipt of test item	Sep. 08, 2025
Date of Test	Sep. 08, 2025 - Oct. 21, 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		
	Thea Huang (Project Engineer)	Oct. 21, 2025
Reviewed By		
	Bibo Zhang (Reviewer)	Oct. 21, 2025
Approved By		
	Angela Li (Authorized Officer)	Oct. 21, 2025

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2. Product Information

2.1 Product Technical Description

Equipment Type	☐ Outdoor access points ☐ Fixed P2P access points	☐ Indoor access points ☒ Client devices
Operation Frequency	☒ U-NII 1:5150MHz~5250MHz ☒ U-NII 2C:5470MHz~5725MHz	☒ U-NII 2A: 5250MHz~5350MHz ☒ U-NII 3: 5725MHz~5850MHz
DFS Design Type	☐ Master ☐ Slave with radar detection ☒ Slave without radar detection	
TPC Function	☐ Yes ☒ No	
Hardware Version	KX349-MAIN-01A	
Software Version	0.0.4	
Test Frequency Range	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5180~5240MHz/5260~5320MHz/5500~5720MHz/5745~5825MHz; For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5230MHz/5270~5310MHz/5510~5710MHz/5755~5795MHz;	
RF Output Power	802.11a:13.68dBm,802.11n(HT20):12.58dBm; 802.11n(HT40):12.58dBm; 802.11ac (VHT20):12.58dBm;802.11ac (VHT40):12.46dBm; 802.11ax (HE20):12.60dBm; 802.11ax (HE40):12.19dBm	
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 300Mbps; 802.11ac: up to 866.6Mbps; 802.11ax: up to 1201Mbps	
Number of channels	6 channels of U-NII-1 Band;6 channels of U- NII-2A Band 16 channels of U-NII-2C Band;7 channels of U- NII 3 Band	
Antenna Designation	FPC Antenna	
Antenna Gain	7.03dBi	
Power Supply	DC 5V by Car Charger or DC 5V by Step-down Line	
Car Charger Information	Model name: CA01 Input: DC 12V Output: DC 5V, 2A	
Step-down Line Information	Model name: RD-HWK300 Input: DC 12V-30V Output: DC 5V, 2.4A	

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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:

4 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)	
					20MHz	40MHz	20MHz	40MHz	800nsGI	
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: IYAVREC-Z410 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 C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices
4	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
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 7.03dBi.

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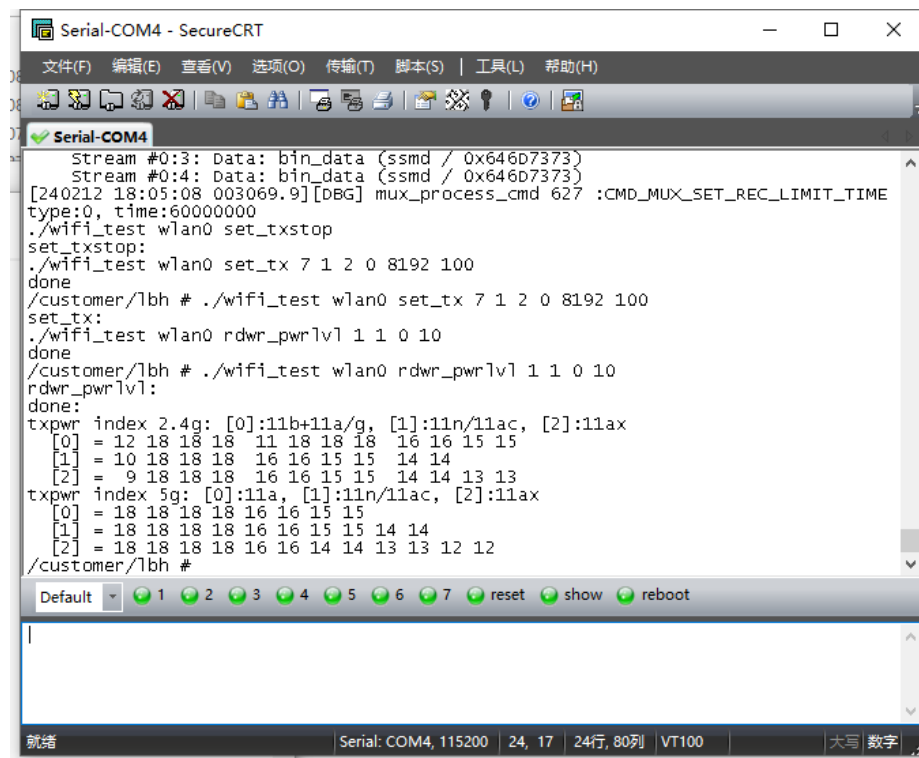
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2.9 Description of Test Software

For IEEE 802.11 mode:

The test utility software used during testing was “SecureCRT”

Software Setting Diagram



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Test Mode U-NII 1	Channel	Power Index
802.11a	L/M/H	13
802.11n(HT20)	L/M/H	12
802.11n(HT40)	L/M/H	12
802.11ac(VHT20)	L/M/H	12
802.11ac(VHT40)	L/M/H	12
802.11ax(HE20)	L/M/H	12
802.11ax(HE40)	L/M/H	12
Test Mode U-NII 2A	Channel	Power Index
802.11a	L/M/H	14
802.11n(HT20)	L/M/H	13
802.11n(HT40)	L/M/H	13
802.11ac(VHT20)	L/M/H	13
802.11ac(VHT40)	L/M/H	13
802.11ax(HE20)	L/M/H	13
802.11ax(HE40)	L/M/H	
Test Mode U-NII 2C	Channel	Power Index
802.11a	L/M/H	17
802.11n(HT20)	L/M/H	14
802.11n(HT40)	L/M/H	16
802.11ac(VHT20)	L/M/H	14
802.11ac(VHT40)	L/M/H	16
802.11ax(HE20)	L/M/H	14
802.11ax(HE40)	L/M/H	16
Test Mode U-NII 3	Channel	Power Index
802.11a	L/M/H	19
802.11n(HT20)	L/M/H	17
802.11n(HT40)	L/M/H	18
802.11ac(VHT20)	L/M/H	17
802.11ac(VHT40)	L/M/H	18
802.11ax(HE20)	L/M/H	17
802.11ax(HE40)	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 5V by Car Charger

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)
☒	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-05-08	2026-05-07
☒	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2025-01-14	2026-01-13
☒	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2025-01-14	2026-01-13
☒	AGC-ER-A007	6dBFixed Attenuator	Mini circuits	Bw-S6-2W263A+	N/A	2025-01-30	2026-01-29
☒	AGC-ER-A008	6dBFixed Attenuator	Mini circuits	BW-K6-2W44+	N/A	2025-01-30	2026-01-29
☐	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2025-05-21	2026-05-20
☒	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	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)
☒	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2025-01-14	2026-01-13
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2024-03-05	2026-03-04
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-27	2026-03-26
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
☒	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
☒	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2025-09-10	2027-09-09
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-EM-A118	5G Filter	SongYi	N/A	N/A	2025-05-16	2026-05-15
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15
☐	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)
☐	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☐	AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	N/A	2024-02-01	2026-01-31
☐	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2025-05-08	2026-05-07

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● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☐	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
☒	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
☐	AGC-EM-S004	RE Test System	Tonscend	TS+Ver2.1(JS32-RE)	4.0.0.0
☒	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6
☒	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

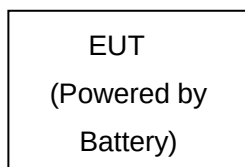
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

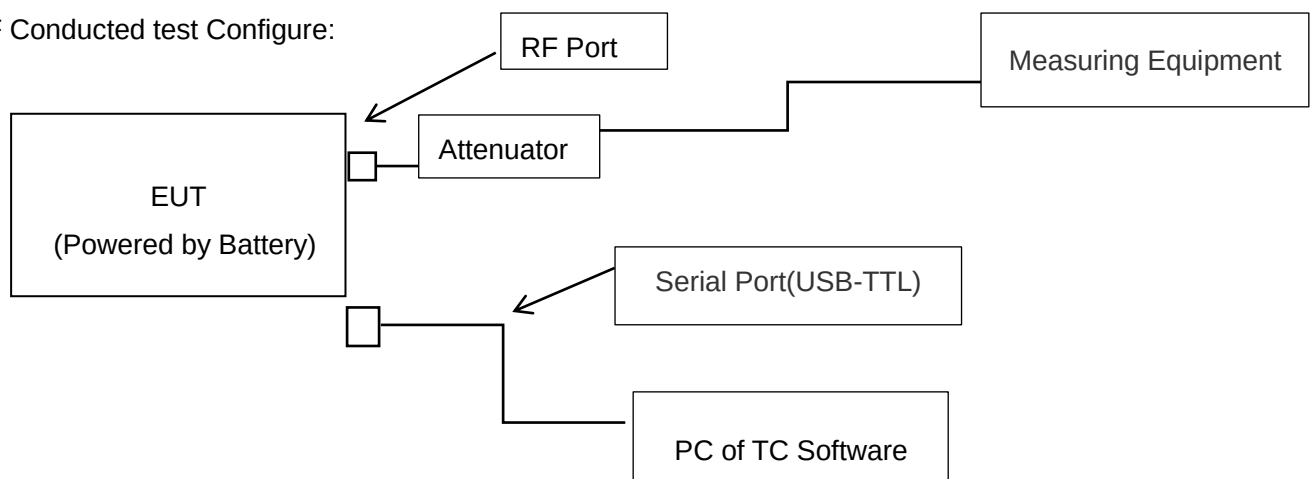
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Radiated Emission Configure:



RF Conducted test Configure:



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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

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	TF Card	Sandisk	SDSQUNC-032G-ZN6 MA	--	--
2	DC 12V Battery	FengFan	N/A	--	--
3	Control Box	RISYM	USB-TTL	--	--

☐ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	--	--	--	--	--

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

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)	6 dB Bandwidth	Pass
4	§15.403(a)	99% Occupied Bandwidth	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	Not applicable (See Note 3)

Note:

1. Refer to the manufacturer's declaration in the user manual.
2. The device operates without the transmission of information.
3. The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

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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

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: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane.

NOTE 2: "--" means no effect.

● Radiated Emission Test (Above 1GHz):

- ☒ 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).
- ☐ Support 802.11ax, device debugging is tested in Full RU state
- ☐ 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.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
B	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	6.0
B	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0

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● **Radiated Emission Test (Below 1GHz):**

- ☒ 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).
- ☐ 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.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
B	802.11a	5180-5240	36 to 48	36	OFDM	6.0

● **Power Line Conducted Emission Test:**

- ☐ 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).
- ☐ 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.
- ☐ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
/	/	/	/	/	/	/

● **Band edge Measurement:**

- ☒ 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).
- ☐ Support 802.11ax, device debugging is tested in Full RU state
- ☐ 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.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
B	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
B	802.11n (40MHz)		38 to 46	38	OFDM	MCS0
B	802.11a	5260-5320	52 to 64	52	OFDM	6.0
B	802.11n (40MHz)		54 to 62	54	OFDM	MCS0
B	802.11a	5500-5700	100 to 140	100	OFDM	6.0
B	802.11n (40MHz)		102 to 134	102	OFDM	MCS0
B	802.11a	5745-5825	149 to 165	149, 165	OFDM	6.0

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● **Antenna Port Conducted Measurement:**

- ☒ 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).
- ☐ Support 802.11ax, device debugging is tested in Full RU state
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
B	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
B	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
B	802.11ac (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
B	802.11ac (40MHz)		38 to 46	38, 46	OFDM	MCS0
B	802.11ax (20MHz)		36 to 48	36, 40, 48	OFDMA	MCS0
B	802.11ax (40MHz)		38 to 46	38, 46	OFDMA	MCS0
B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
B	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
B	802.11n (40MHz)		54 to 62	54, 62	OFDM	MCS0
B	802.11ac (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
B	802.11ac (40MHz)		54 to 62	54, 62	OFDM	MCS0
B	802.11ax (20MHz)		52 to 64	52, 60, 64	OFDMA	MCS0
B	802.11ax (40MHz)		54 to 62	54, 62	OFDMA	MCS0
B	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	6.0
B	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	MCS0
B	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	MCS0
B	802.11ac (20MHz)		100 to 140	100, 116, 140	OFDM	MCS0
B	802.11ac (40MHz)		102 to 134	102, 110, 134	OFDM	MCS0
B	802.11ax (20MHz)		100 to 140	100, 116, 140	OFDMA	MCS0
B	802.11ax (40MHz)		102 to 134	102, 110, 134	OFDMA	MCS0
B	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
B	802.11n (20MHz)		149 to 165	149, 157, 165	OFDM	MCS0
B	802.11n (40MHz)		151 to 159	151, 159	OFDM	MCS0
B	802.11ac (20MHz)		149 to 165	149, 157, 165	OFDM	MCS0
B	802.11ac (40MHz)		151 to 159	151, 159	OFDM	MCS0
B	802.11ax (20MHz)		149 to 165	149, 157, 165	OFDM	MCS0
B	802.11ax (40MHz)		151 to 159	151, 159	OFDM	MCS0

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6. Duty Cycle Measurement

5GHz WLAN (NII) operation is possible in 20MHz and 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	85.38	0.69
802.11n_HT20	MCS0	96.71	0.15
802.11n_HT40	MCS0	92.13	0.36
802.11ac_VHT20	MCS0	95.94	0.18
802.11ac_VHT40	MCS0	97.73	0.1
802.11ax_HE20	MCS0	95.84	0.18
802.11ax_HE40	MCS0	95.70	0.19
Band U-NII 2A:5250MHz-5350MHz			
802.11a	6	87.81	0.56
802.11n_HT20	MCS0	97.68	0.1
802.11n_HT40	MCS0	97.71	0.1
802.11ac_VHT20	MCS0	96.81	0.14
802.11ac_VHT40	MCS0	97.32	0.12
802.11ax_HE20	MCS0	95.10	0.22
802.11ax_HE40	MCS0	97.16	0.13

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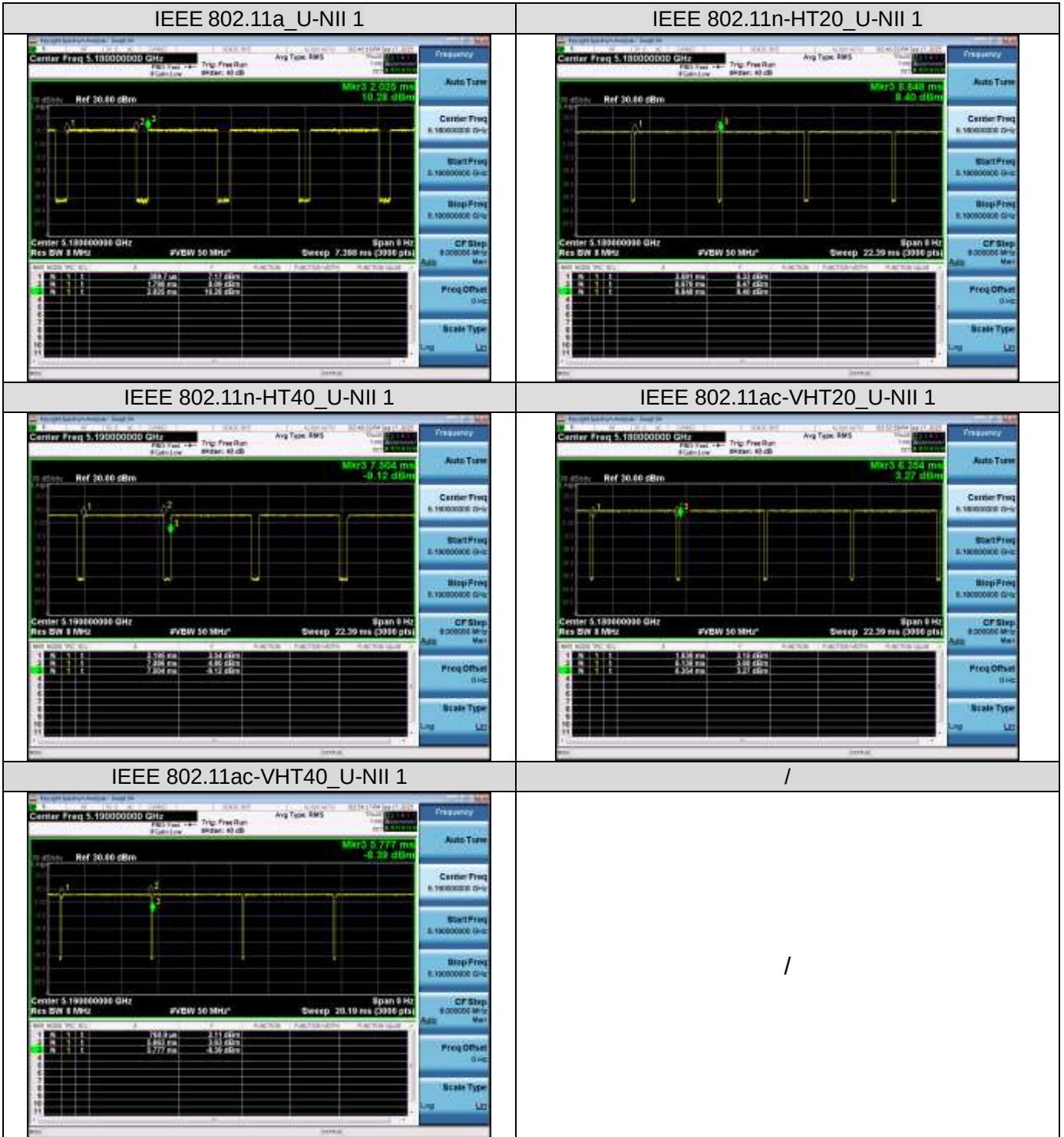
Operating mode	Data rates (Mbps)	Duty Cycle (%)	Duty Cycle Factor (dB)
Band U-NII 2C:5470MHz-5725MHz			
802.11a	6	87.92	0.56
802.11n_HT20	MCS0	97.89	0.09
802.11n_HT40	MCS0	97.07	0.13
802.11ac_VHT20	MCS0	97.57	0.11
802.11ac_VHT40	MCS0	97.59	0.11
802.11ax_HE20	MCS0	96.06	0.17
802.11ax_HE40	MCS0	96.44	0.16
Band U-NII 3:5725MHz-5850MHz			
802.11a	6	87.48	0.58
802.11n_HT20	MCS0	97.84	0.09
802.11n_HT40	MCS0	97.71	0.1
802.11ac_VHT20	MCS0	97.72	0.1
802.11ac_VHT40	MCS0	96.44	0.16
802.11ax_HE20	MCS0	97.04	0.13
802.11ax_HE40	MCS0	94.93	0.23

Remark:

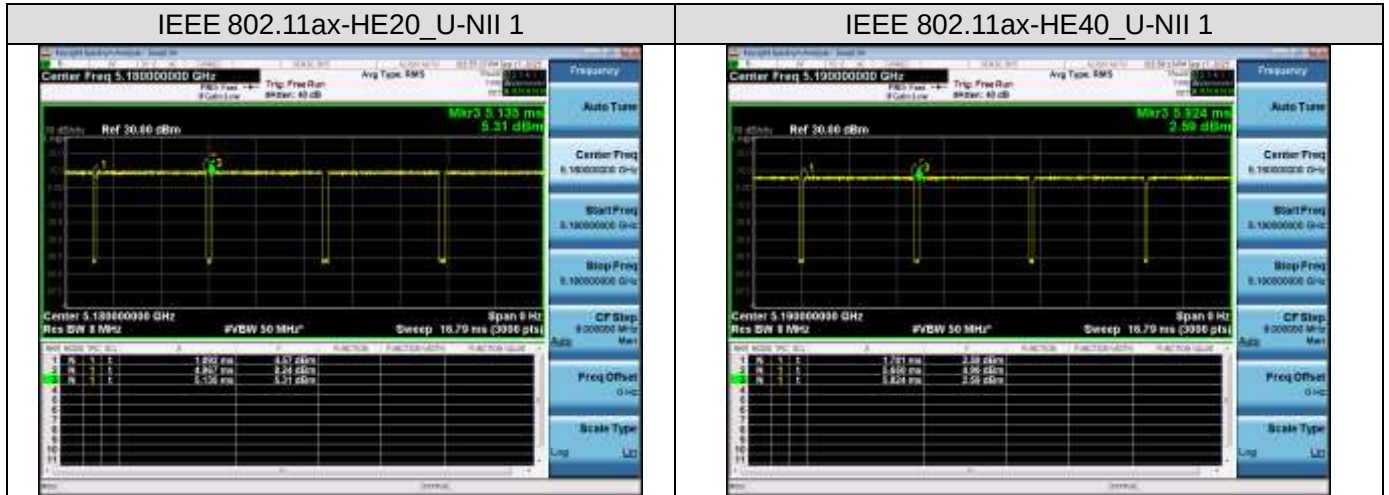
1. Duty Cycle factor = $10 * \log (1/ \text{Duty cycle})$
2. The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value.
3. Involving the test items of duty cycle compensation coefficient, the final results have been added and calculated by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

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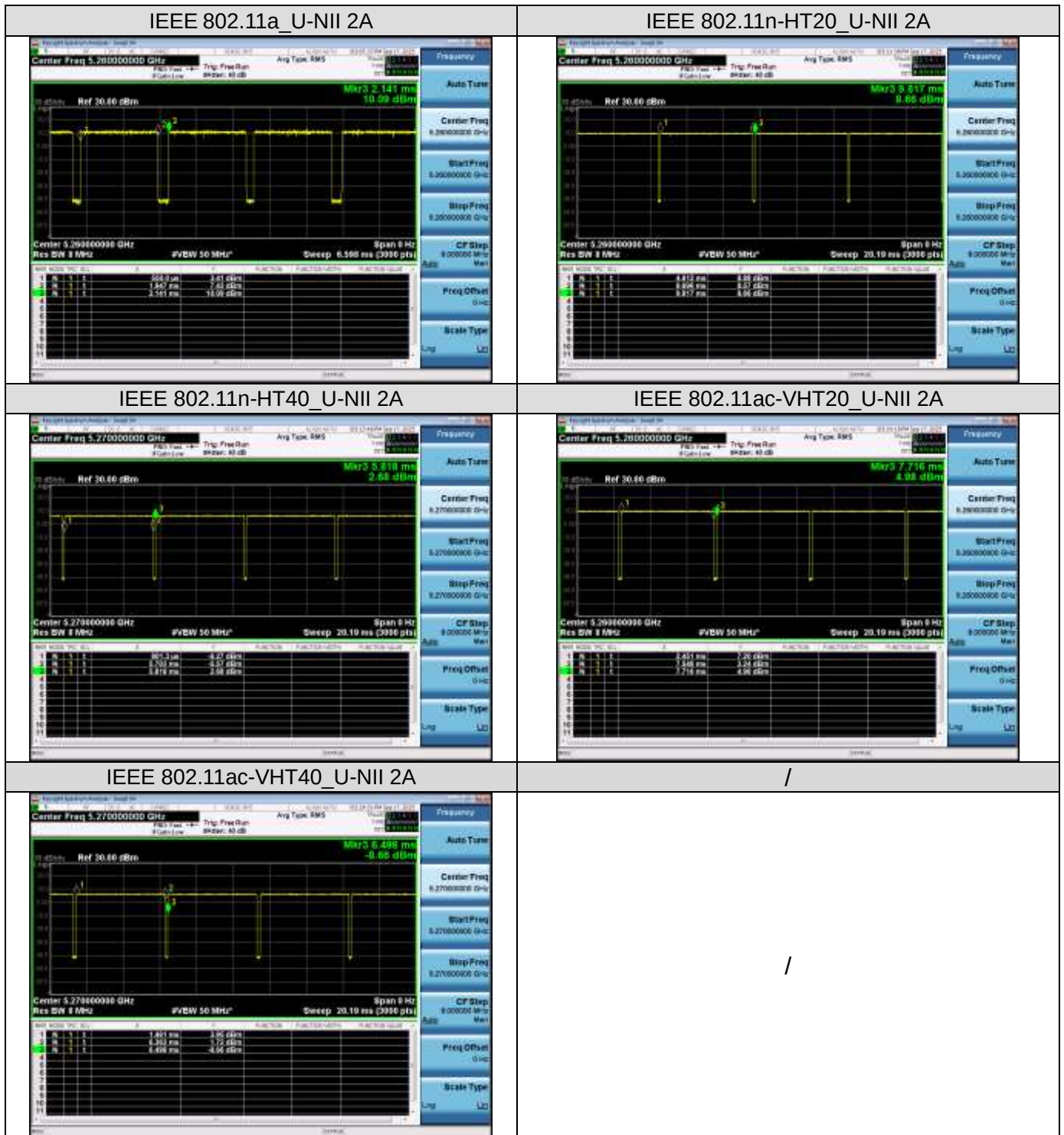
The test plots as follows:



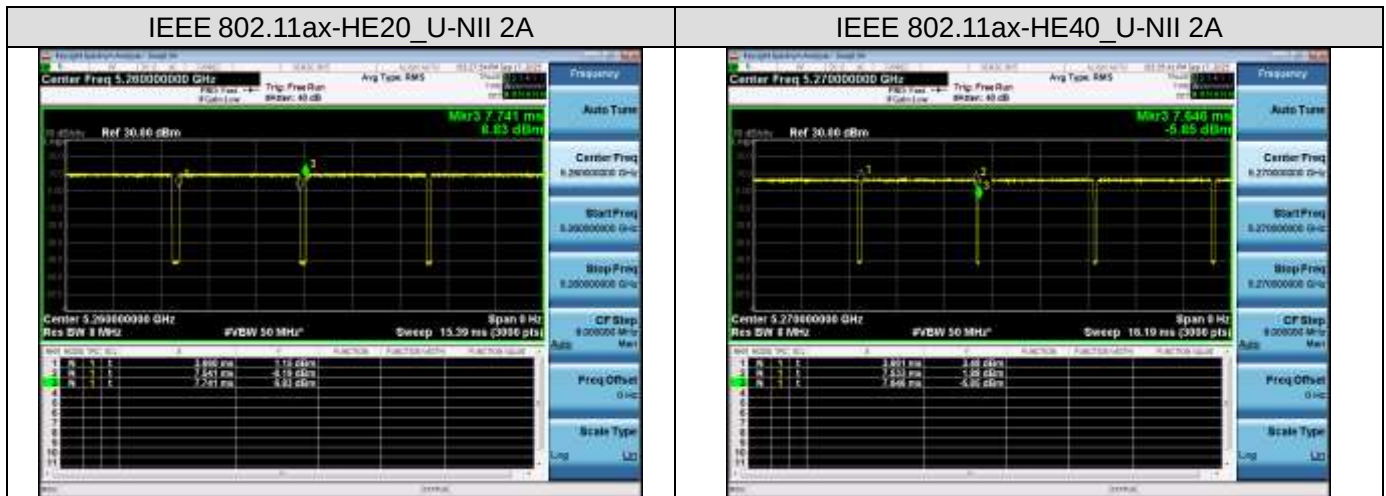
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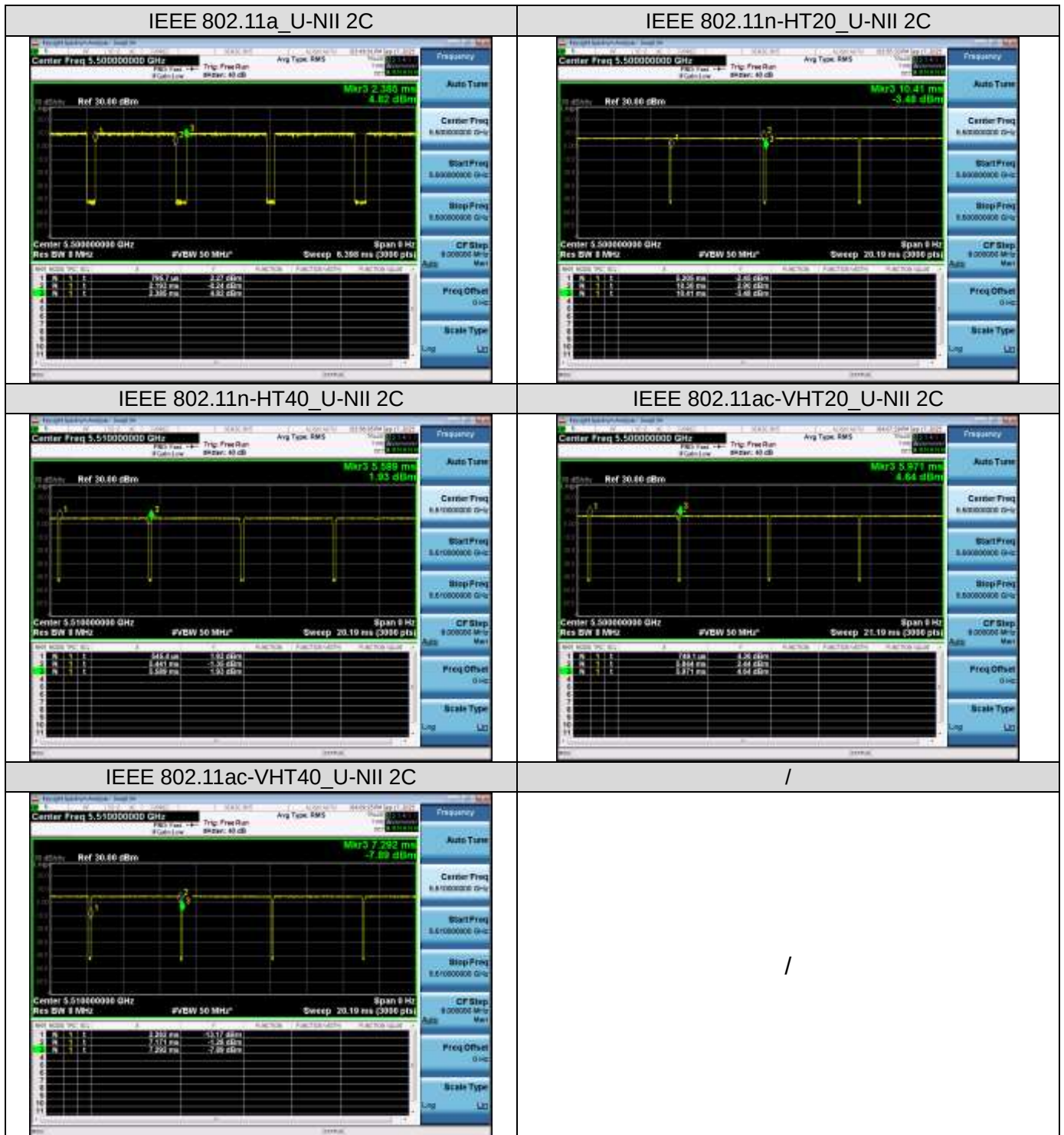
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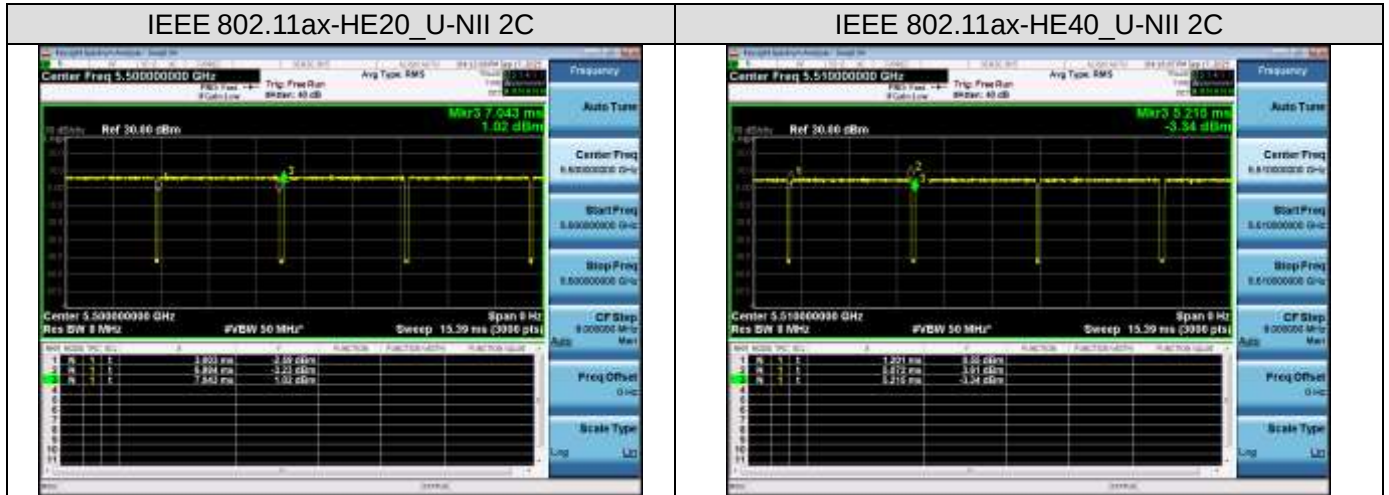
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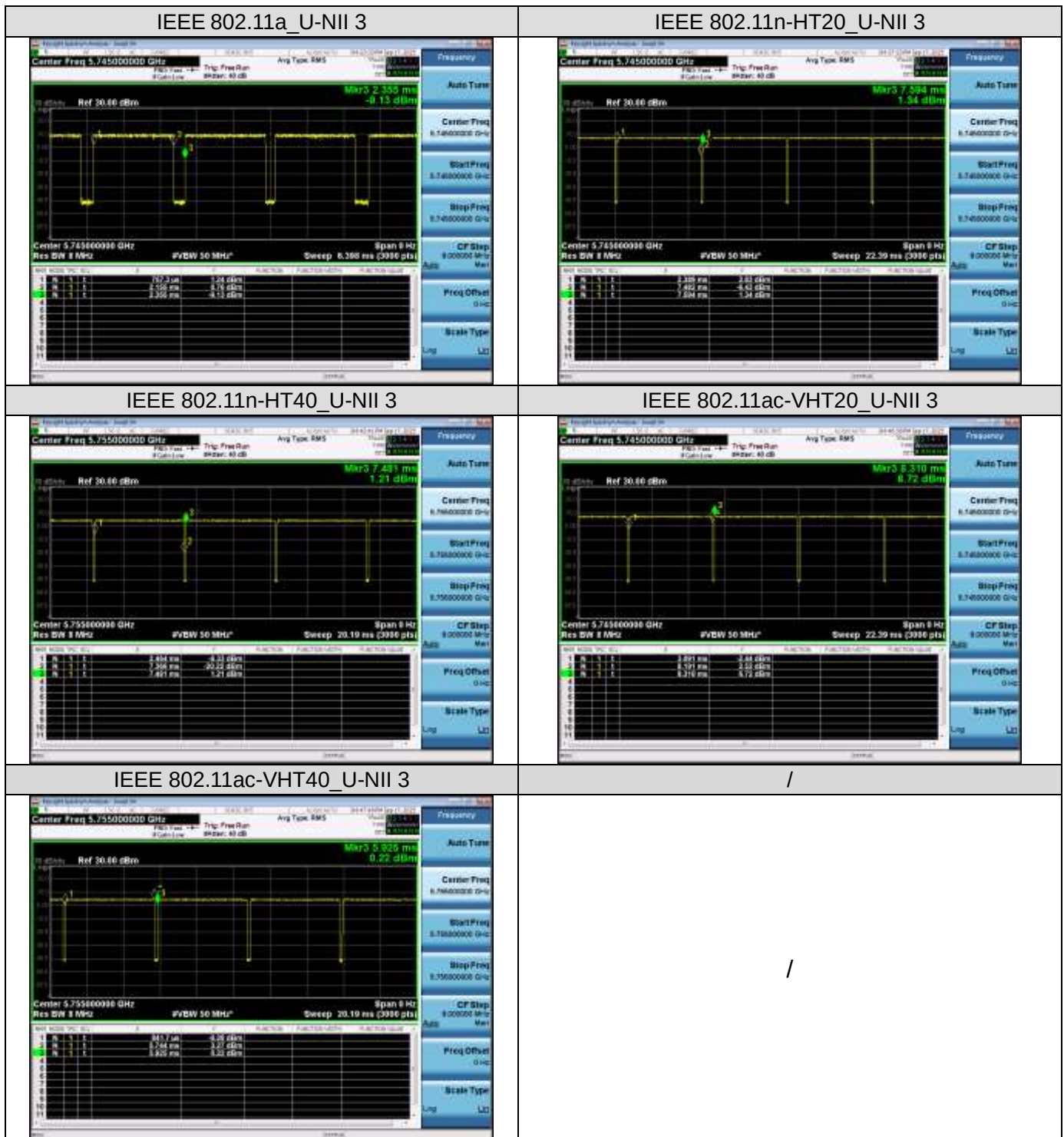


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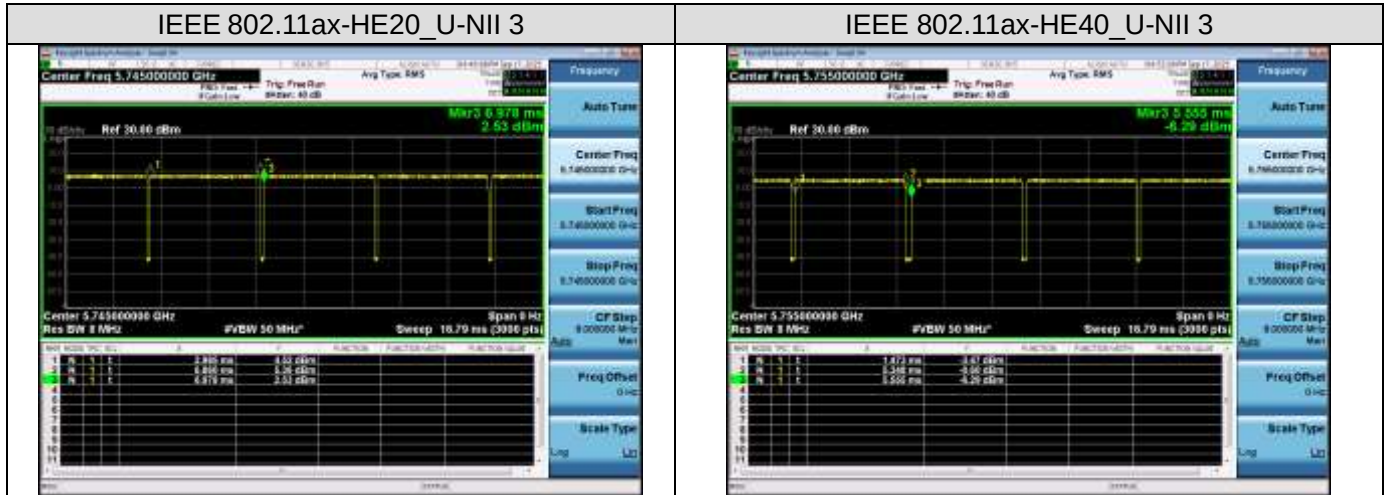


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7. RF Output Power Measurement

7.1 Provisions Applicable

Operation Band	EUT Category		LIMIT
U-NII-1	☐	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. 1 Watt (30 dBm)

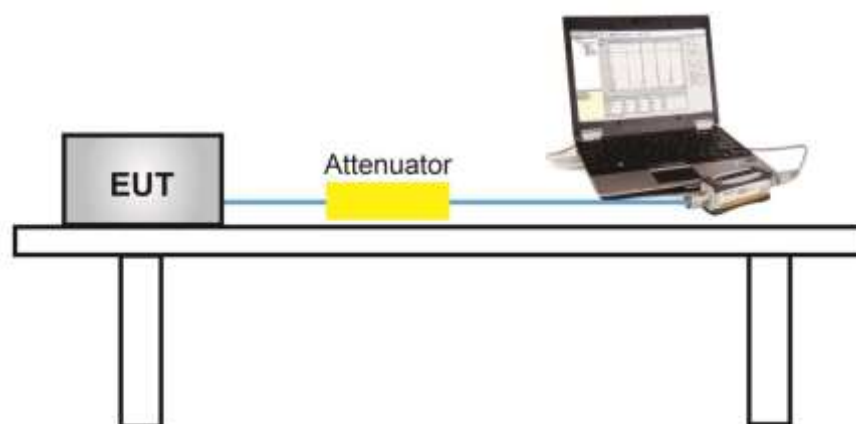
Note: Where B is the 26dB emission bandwidth in MHz.

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 Channel (MHz)	Average Power (dBm)	Limits (dBm)	EIRP (dBm)	Pass or Fail
802.11a	5180	13.68	22.95	18.08	Pass
	5200	13.52	22.95	17.92	Pass
	5240	13.50	22.95	17.90	Pass
802.11n20	5180	12.21	22.95	16.61	Pass
	5200	12.13	22.95	16.53	Pass
	5240	12.17	22.95	16.57	Pass
802.11n40	5190	12.23	22.95	16.63	Pass
	5230	12.14	22.95	16.54	Pass
802.11ac20	5180	12.21	22.95	16.61	Pass
	5200	12.09	22.95	16.49	Pass
	5240	12.11	22.95	16.51	Pass
802.11ac40	5190	12.09	22.95	16.49	Pass
	5230	12.15	22.95	16.55	Pass
802.11ax20	5180	12.07	22.95	16.47	Pass
	5200	12.08	22.95	16.48	Pass
	5240	12.06	22.95	16.46	Pass
802.11ax40	5190	12.15	22.95	16.55	Pass
	5230	11.93	22.95	16.33	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)	EIRP (dBm)	Pass or Fail
802.11a	5260	13.56	22.95	17.96	Pass
	5300	12.78	22.95	17.18	Pass
	5320	12.33	22.95	16.73	Pass
802.11n20	5260	12.58	22.95	16.98	Pass
	5300	11.99	22.95	16.39	Pass
	5320	11.59	22.95	15.99	Pass
802.11n40	5270	12.58	22.95	16.98	Pass
	5310	11.77	22.95	16.17	Pass
802.11ac20	5260	12.58	22.95	16.98	Pass
	5300	11.99	22.95	16.39	Pass
	5320	11.54	22.95	15.94	Pass
802.11ac40	5270	12.46	22.95	16.86	Pass
	5310	11.83	22.95	16.23	Pass
802.11ax20	5260	12.60	22.95	17.00	Pass
	5300	12.03	22.95	16.43	Pass
	5320	11.49	22.95	15.89	Pass
802.11ax40	5270	12.19	22.95	16.59	Pass
	5310	11.90	22.95	16.30	Pass

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Test Data of Conducted Output Power for band 5.470-5.725 GHz					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	EIRP (dBm)	Pass or Fail
802.11a	5500	13.03	22.95	17.43	Pass
	5580	11.74	22.95	16.14	Pass
	5700	10.19	22.95	14.59	Pass
802.11n20	5500	9.90	22.95	14.30	Pass
	5580	8.57	22.95	12.97	Pass
	5700	7.38	22.95	11.78	Pass
802.11n40	5510	11.70	22.95	16.10	Pass
	5590	10.96	22.95	15.36	Pass
	5670	9.26	22.95	13.66	Pass
802.11ac20	5500	9.84	22.95	14.24	Pass
	5580	8.66	22.95	13.06	Pass
	5700	7.19	22.95	11.59	Pass
802.11ac40	5510	11.76	22.95	16.16	Pass
	5590	10.74	22.95	15.14	Pass
	5670	9.48	22.95	13.88	Pass
802.11ax20	5500	9.91	22.95	14.31	Pass
	5580	8.69	22.95	13.09	Pass
	5700	7.20	22.95	11.60	Pass
802.11ax40	5510	11.78	22.95	16.18	Pass
	5590	11.07	22.95	15.47	Pass
	5670	9.39	22.95	13.79	Pass

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Test Data of Conducted Output Power for band 5.725-5.850 GHz					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	EIRP (dBm)	Pass or Fail
802.11a	5745	12.16	28.97	16.56	Pass
	5785	10.95	28.97	15.35	Pass
	5825	11.47	28.97	15.87	Pass
802.11n20	5745	10.44	28.97	14.84	Pass
	5785	10.12	28.97	14.52	Pass
	5825	10.10	28.97	14.50	Pass
802.11n40	5755	11.41	28.97	15.81	Pass
	5795	11.08	28.97	15.48	Pass
802.11ac20	5745	10.47	28.97	14.87	Pass
	5785	10.01	28.97	14.41	Pass
	5825	10.26	28.97	14.66	Pass
802.11ac40	5755	11.52	28.97	15.92	Pass
	5795	11.10	28.97	15.50	Pass
802.11ax20	5745	10.54	28.97	14.94	Pass
	5785	9.93	28.97	14.33	Pass
	5825	10.17	28.97	14.57	Pass
802.11ax40	5755	11.47	28.97	15.87	Pass
	5795	11.15	28.97	15.55	Pass

Note: EIRP(dBm)= Average Power (dBm)+Antenna Gain(dBi)

Antenna Gain: 7.03dBi

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

8. 6dB&26dB 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:

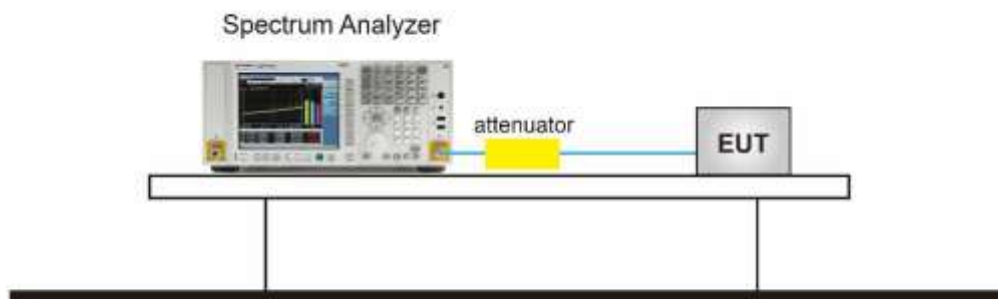
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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 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 Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.701	24.293	N/A	Pass
	5200	16.711	23.652	N/A	Pass
	5240	16.670	22.322	N/A	Pass
802.11n20	5180	17.920	25.299	N/A	Pass
	5200	17.907	24.884	N/A	Pass
	5240	17.904	24.693	N/A	Pass
802.11n40	5190	36.442	46.176	N/A	Pass
	5230	36.372	43.831	N/A	Pass
802.11ac20	5180	17.909	24.950	N/A	Pass
	5200	17.875	24.967	N/A	Pass
	5240	17.943	26.000	N/A	Pass
802.11ac40	5190	36.425	45.896	N/A	Pass
	5230	36.389	46.551	N/A	Pass
802.11ax20	5180	19.096	24.474	N/A	Pass
	5200	19.047	24.089	N/A	Pass
	5240	19.070	24.650	N/A	Pass
802.11ax40	5190	37.879	44.548	N/A	Pass
	5230	37.926	44.605	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	16.742	24.001	N/A	Pass
	5300	16.722	24.656	N/A	Pass
	5320	16.747	24.832	N/A	Pass
802.11n20	5260	17.897	25.227	N/A	Pass
	5300	17.916	24.535	N/A	Pass
	5320	17.957	24.893	N/A	Pass
802.11n40	5270	36.418	44.959	N/A	Pass
	5310	36.454	46.235	N/A	Pass
802.11ac20	5260	17.890	24.607	N/A	Pass
	5300	17.903	23.967	N/A	Pass
	5320	17.929	24.715	N/A	Pass
802.11ac40	5270	36.419	45.256	N/A	Pass
	5310	36.430	45.092	N/A	Pass
802.11ax20	5260	19.112	25.509	N/A	Pass
	5300	19.109	23.967	N/A	Pass
	5320	19.091	24.733	N/A	Pass
802.11ax40	5270	37.925	44.149	N/A	Pass
	5310	37.929	44.835	N/A	Pass

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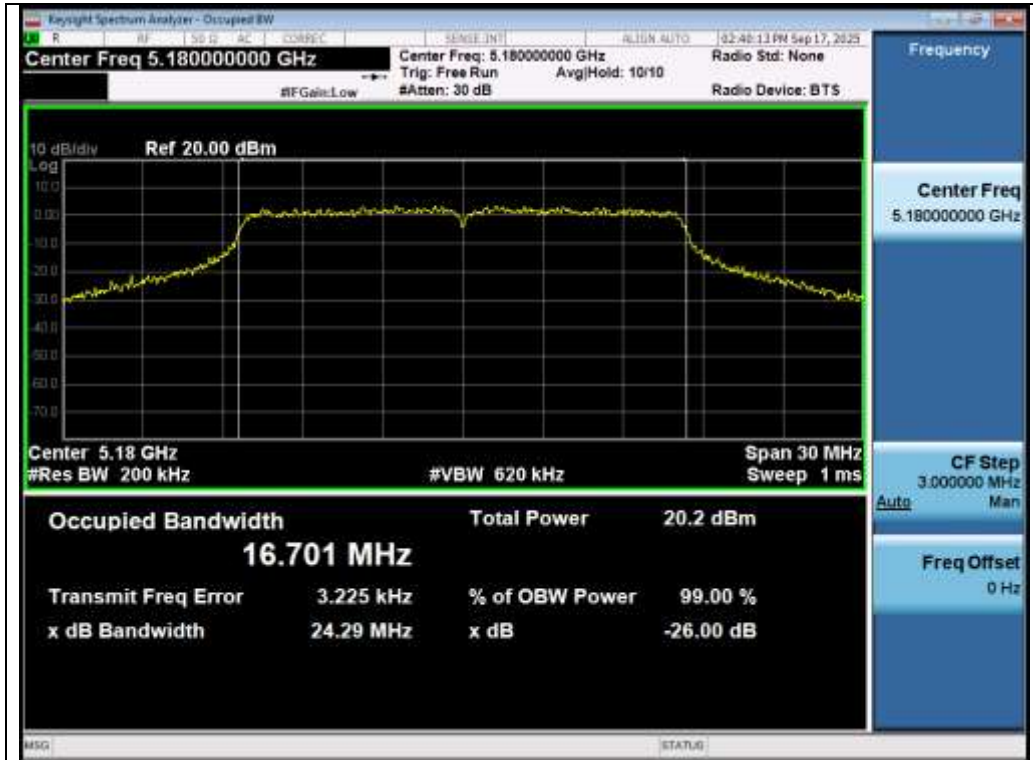
Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5500	16.823	25.636	N/A	Pass
	5580	16.835	24.419	N/A	Pass
	5700	16.811	24.694	N/A	Pass
802.11n20	5500	17.913	24.371	N/A	Pass
	5580	17.939	23.713	N/A	Pass
	5700	17.879	24.318	N/A	Pass
802.11n40	5510	36.646	46.859	N/A	Pass
	5550	36.626	46.776	N/A	Pass
	5670	36.604	46.598	N/A	Pass
802.11ac20	5500	17.910	24.503	N/A	Pass
	5580	17.902	24.559	N/A	Pass
	5700	17.986	24.914	N/A	Pass
802.11ac40	5510	36.635	46.306	N/A	Pass
	5670	36.610	46.118	N/A	Pass
	5670	36.639	46.499	N/A	Pass
802.11ax20	5500	19.135	24.374	N/A	Pass
	5600	19.208	25.555	N/A	Pass
	5700	19.250	25.433	N/A	Pass
802.11ax40	5510	38.096	44.474	N/A	Pass
	5590	38.103	44.474	N/A	Pass
	5670	38.084	45.621	N/A	Pass

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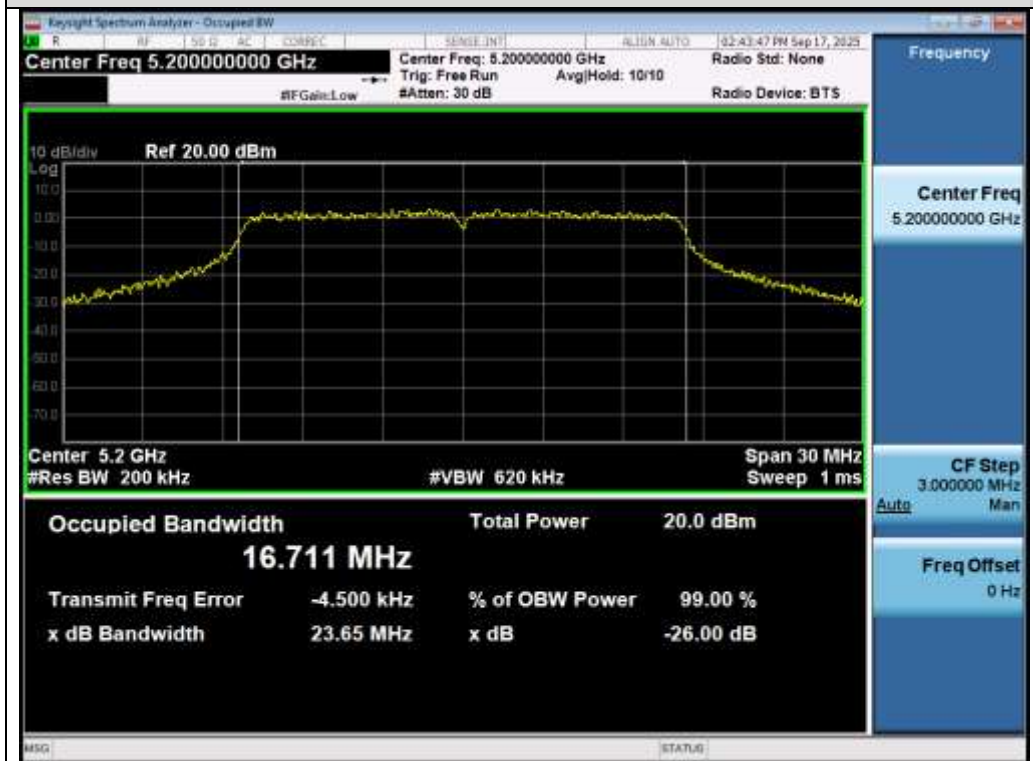
Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.889	16.405	0.5	Pass
	5785	16.881	16.403	0.5	Pass
	5825	16.868	16.471	0.5	Pass
802.11n20	5745	17.861	17.630	0.5	Pass
	5785	17.952	17.632	0.5	Pass
	5825	17.913	17.640	0.5	Pass
802.11n40	5755	36.588	36.415	0.5	Pass
	5795	36.680	36.414	0.5	Pass
802.11ac20	5745	17.923	17.620	0.5	Pass
	5785	17.952	17.672	0.5	Pass
	5825	17.930	17.641	0.5	Pass
802.11ac40	5755	36.710	36.439	0.5	Pass
	5795	36.689	36.424	0.5	Pass
802.11ax20	5180	19.098	19.050	0.5	Pass
	5200	19.231	19.069	0.5	Pass
	5240	19.154	19.036	0.5	Pass
802.11ax40	5190	38.099	37.982	0.5	Pass
	5230	38.173	38.178	0.5	Pass

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



Test_Graph_802.11a_ANT1_5180_6Mbps_OBW

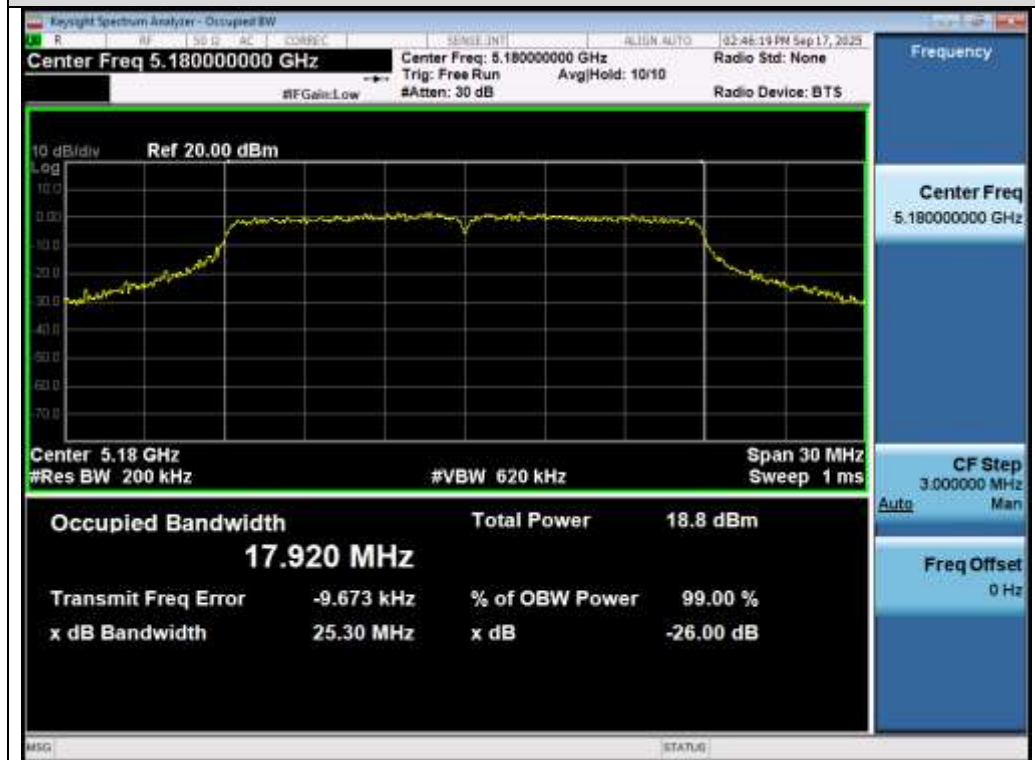


Test_Graph_802.11a_ANT1_5200_6Mbps_OBW

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Test_Graph_802.11a_ANT1_5240_6Mbps_OBW

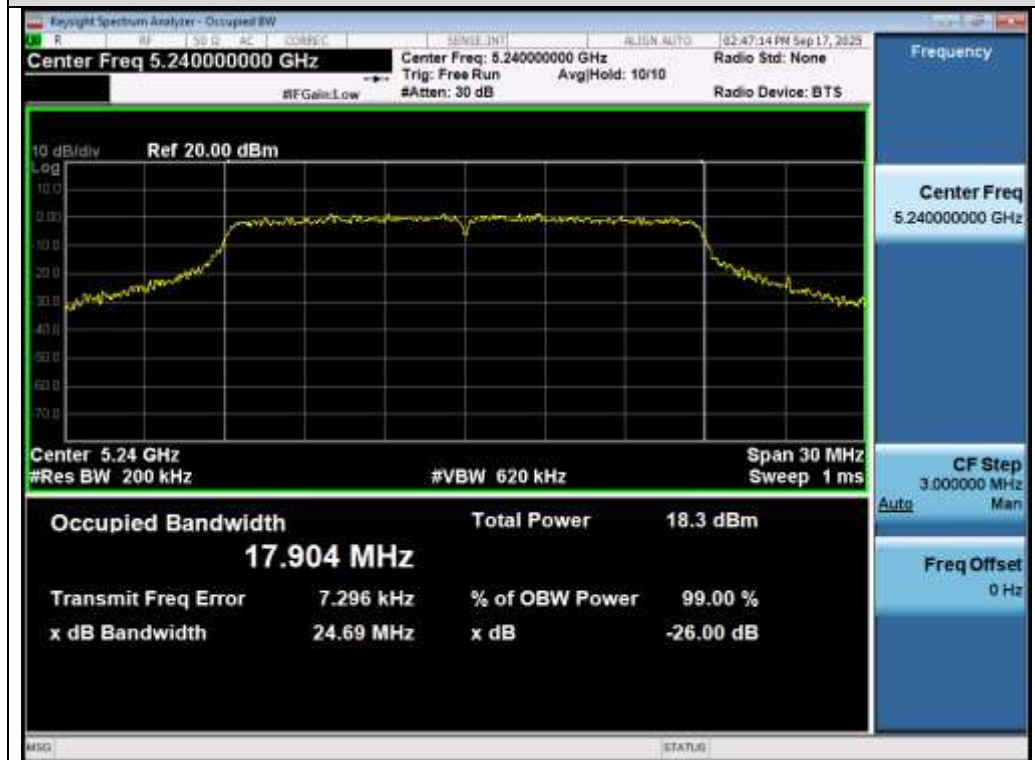


Test_Graph_802.11n20_ANT1_5180_MCS0_OBW

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Test_Graph_802.11n20_ANT1_5200_MCS0_OBW



Test_Graph_802.11n20_ANT1_5240_MCS0_OBW

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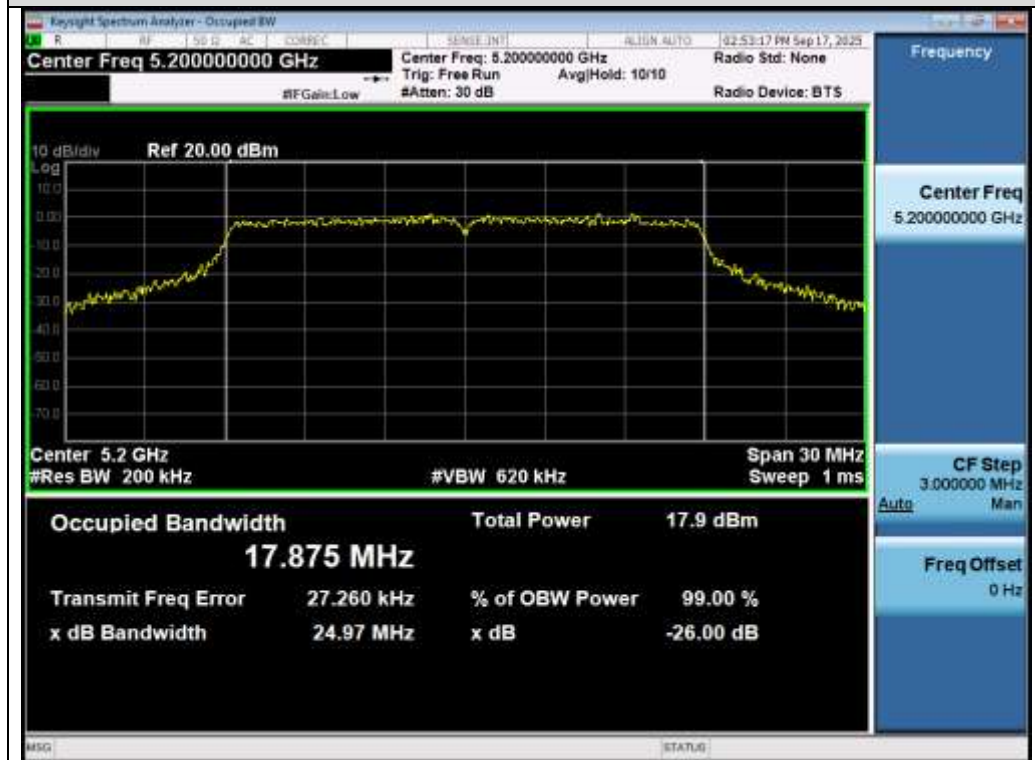


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Test_Graph_802.11ac20_ANT1_5180_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5200_MCS0_OBW

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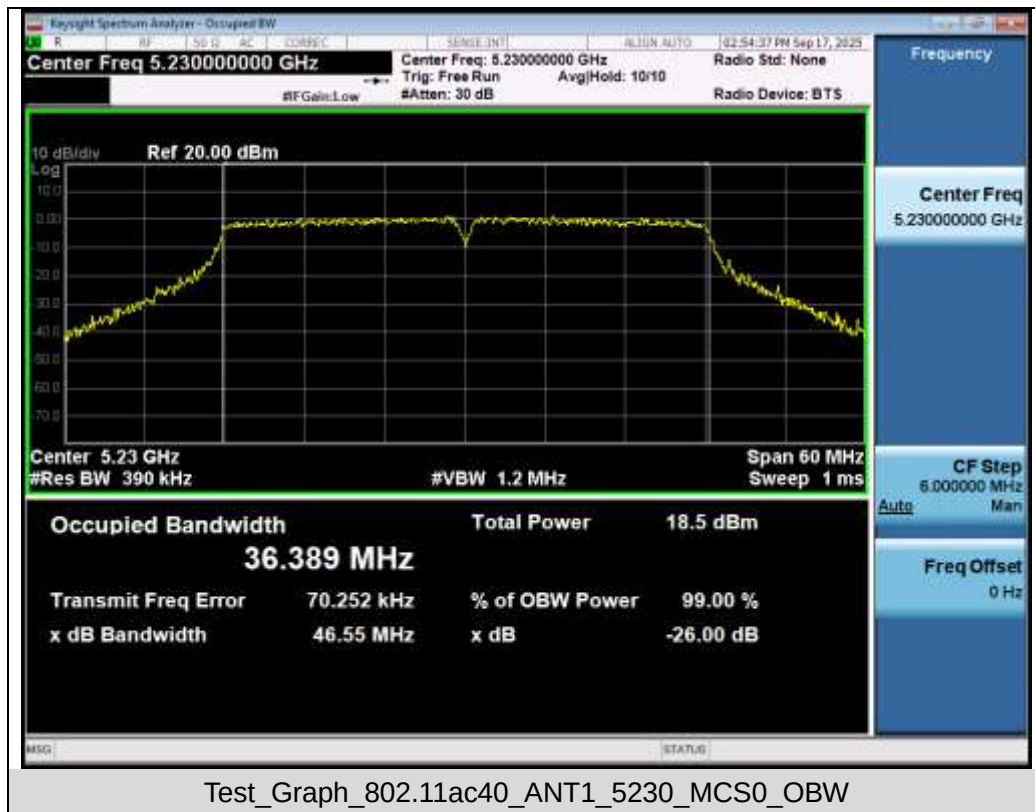


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Test_Graph_802.11ac40_ANT1_5190_MCS0_OBW

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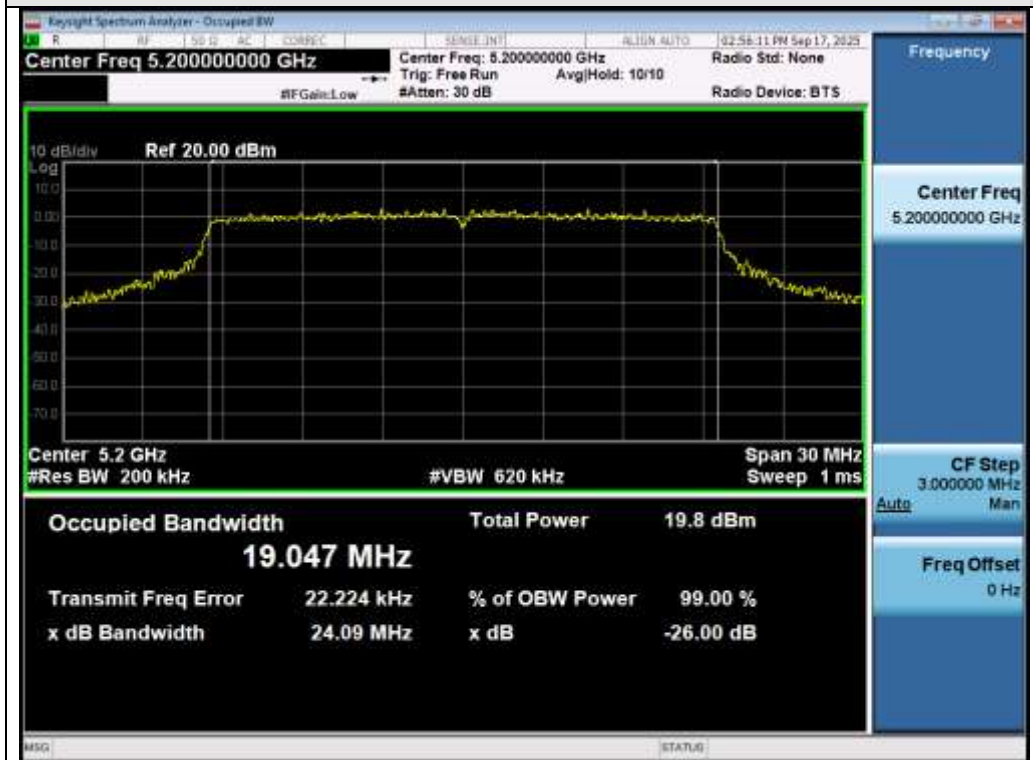


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Test_Graph_802.11ax20_ANT1_5180_MCS0_OBW

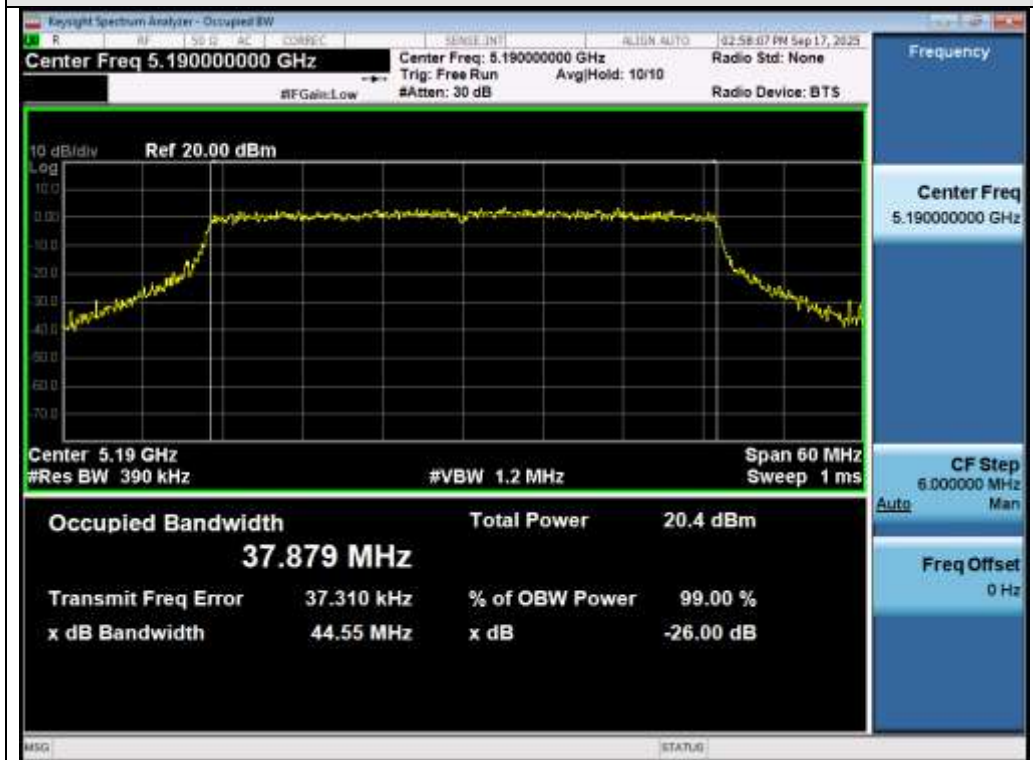


Test_Graph_802.11ax20_ANT1_5200_MCS0_OBW

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Test_Graph_802.11ax20_ANT1_5240_MCS0_OBW



Test_Graph_802.11ax40_ANT1_5190_MCS0_OBW

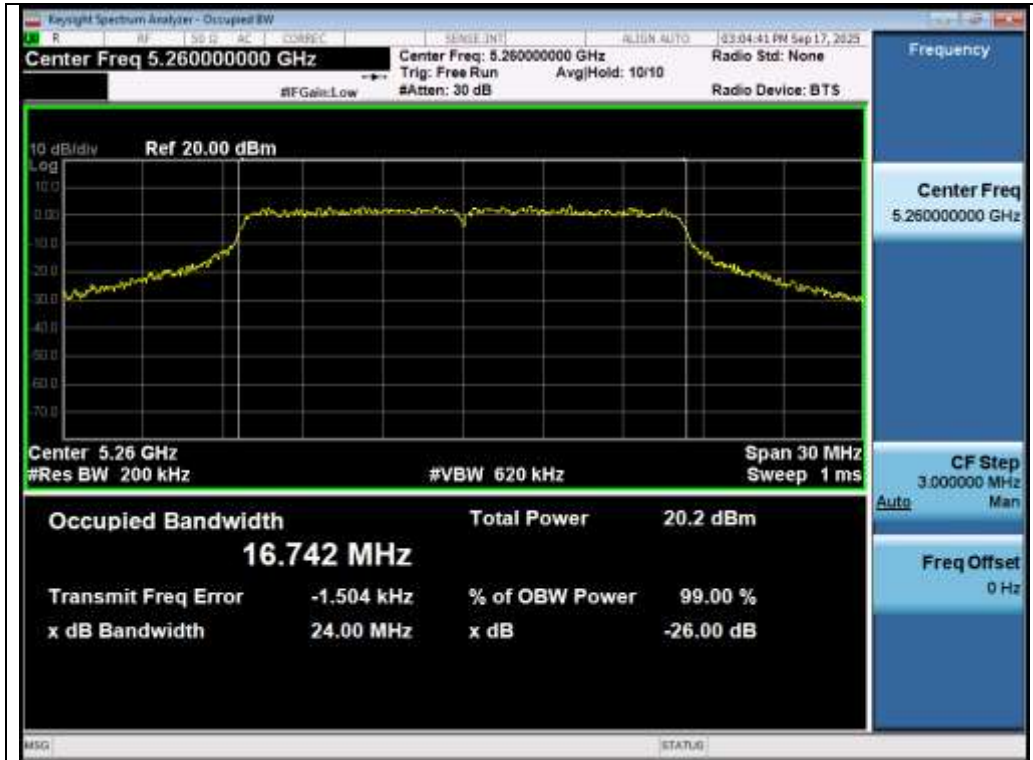
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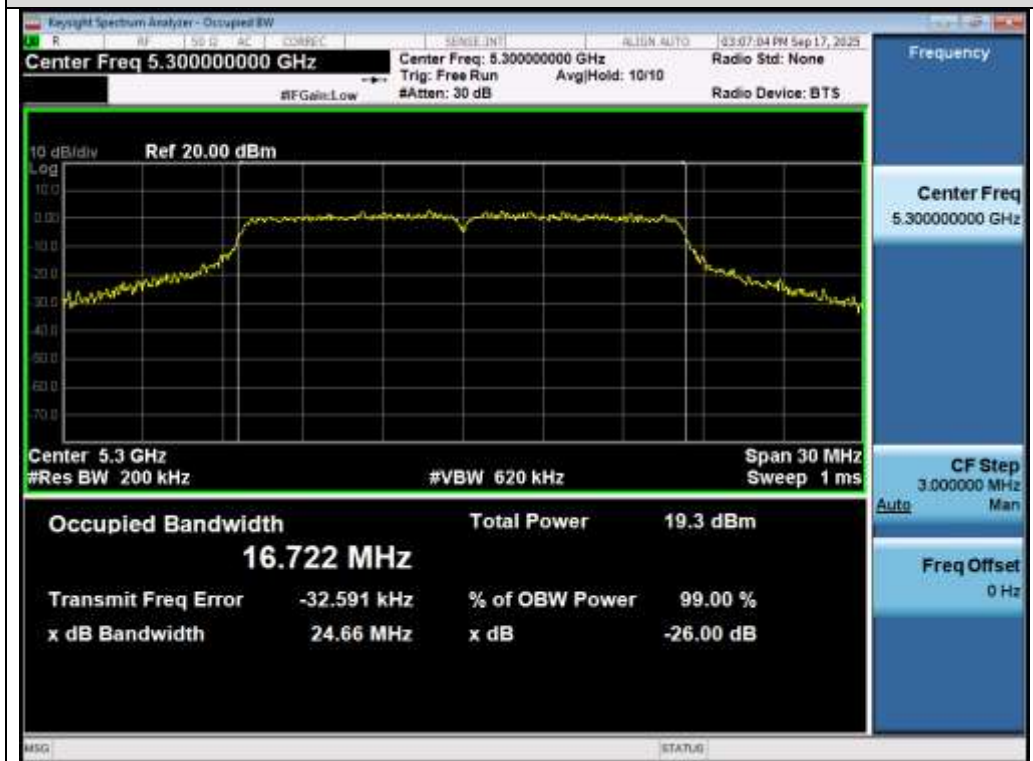
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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

Test Graphs of Occupied Bandwidth for band 5.25-5.35 GHz



Test_Graph_802.11a_ANT1_5260_6Mbps_OBW

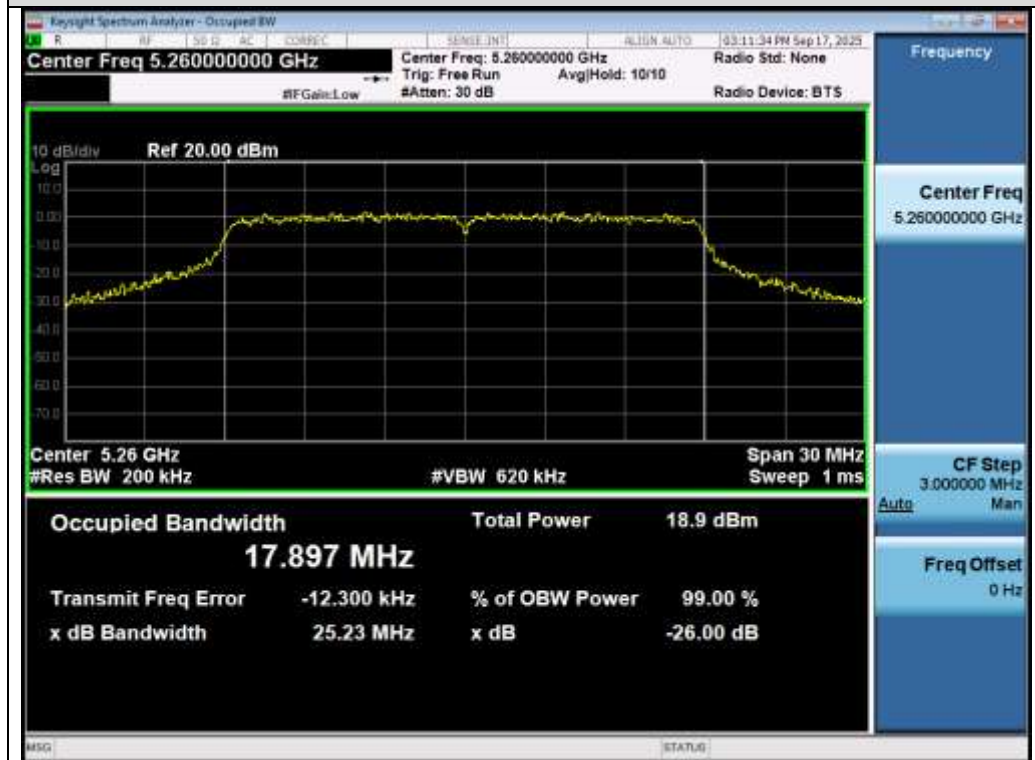


Test_Graph_802.11a_ANT1_5300_6Mbps_OBW

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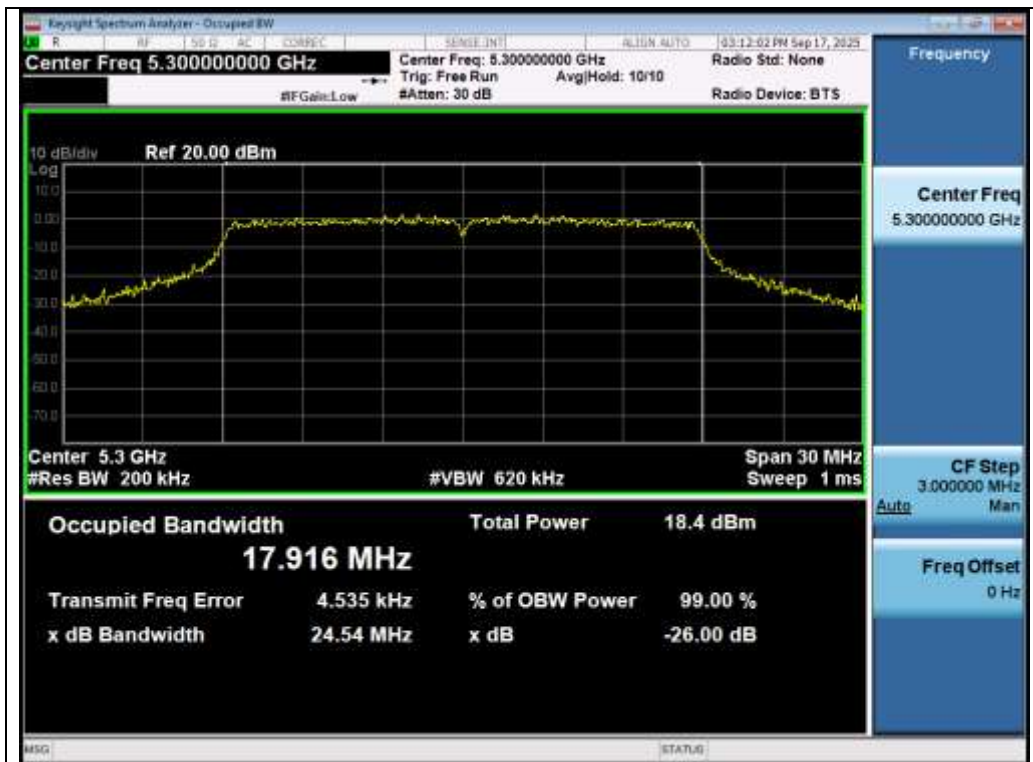


Test_Graph_802.11a_ANT1_5320_6Mbps_OBW

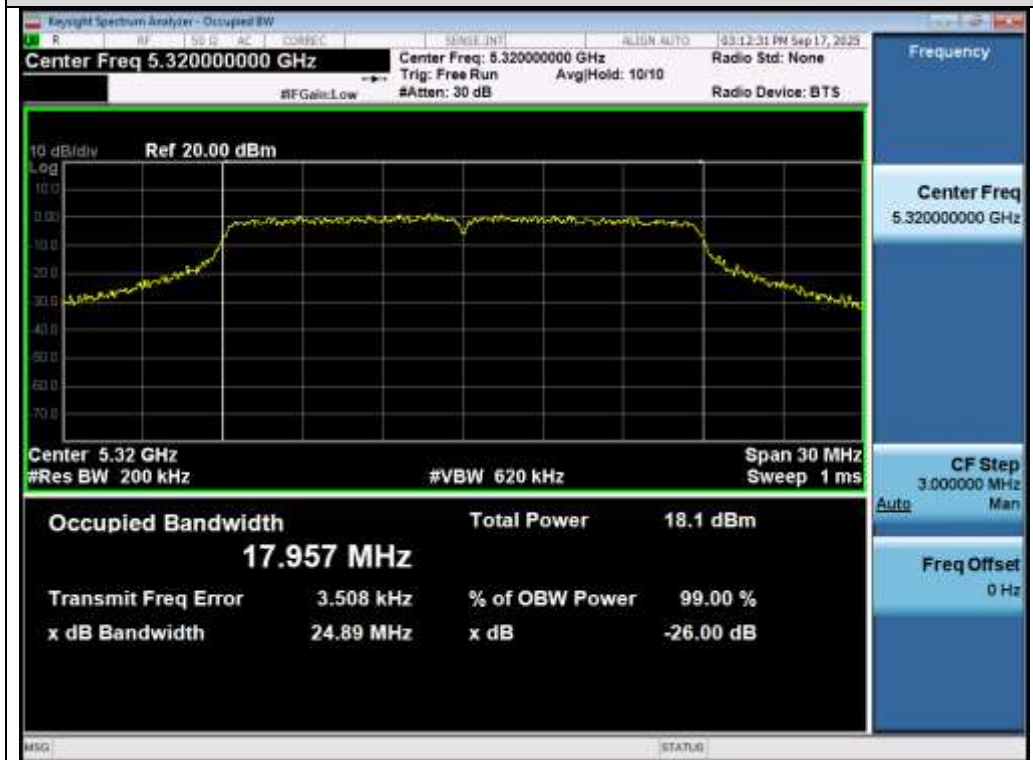


Test_Graph_802.11n20_ANT1_5260_MCS0_OBW

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Test_Graph_802.11n20_ANT1_5300_MCS0_OBW



Test_Graph_802.11n20_ANT1_5320_MCS0_OBW

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Test_Graph_802.11n40_ANT1_5270_MCS0_OBW

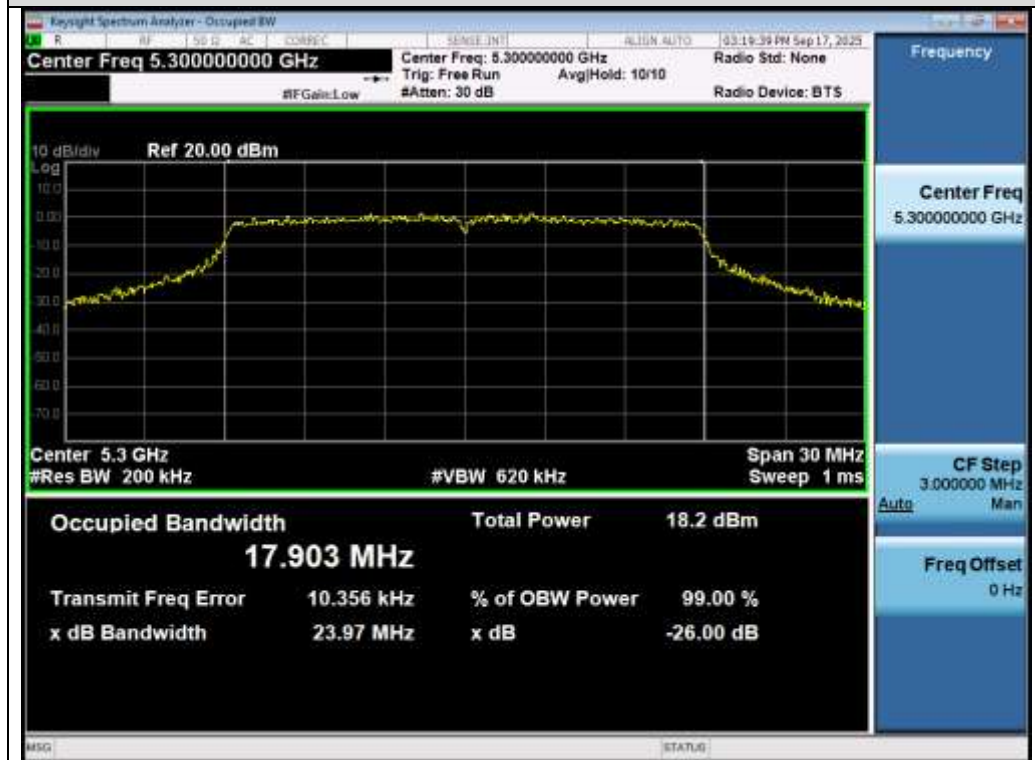


Test_Graph_802.11n40_ANT1_5310_MCS0_OBW

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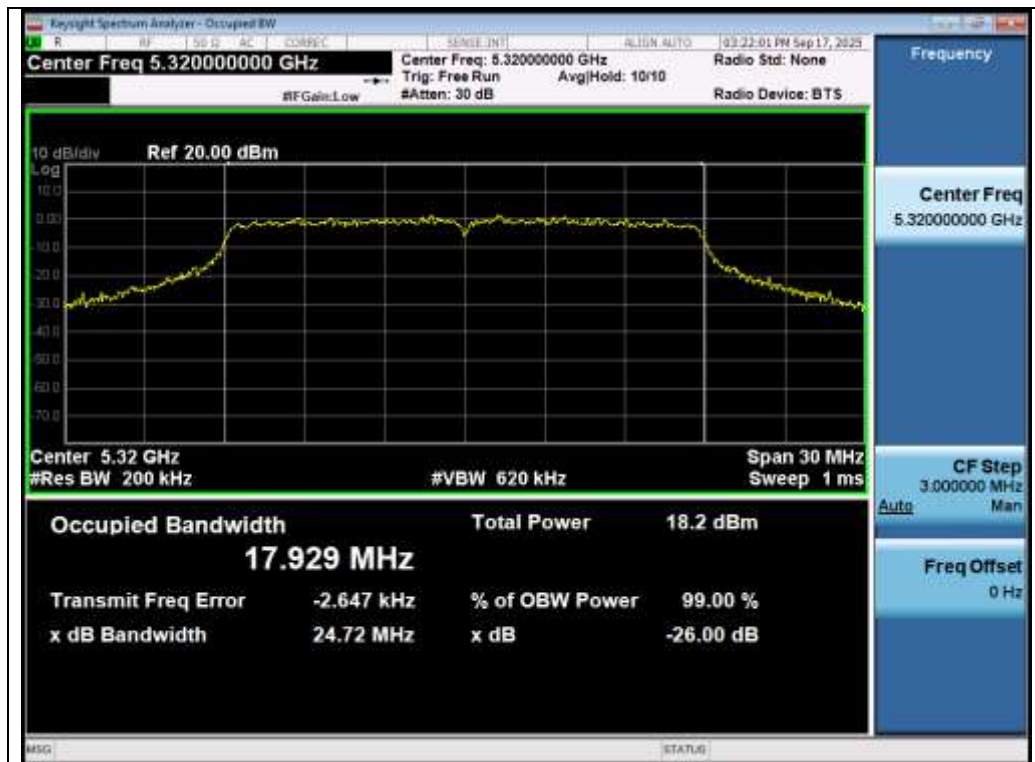


Test_Graph_802.11ac20_ANT1_5260_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5300_MCS0_OBW

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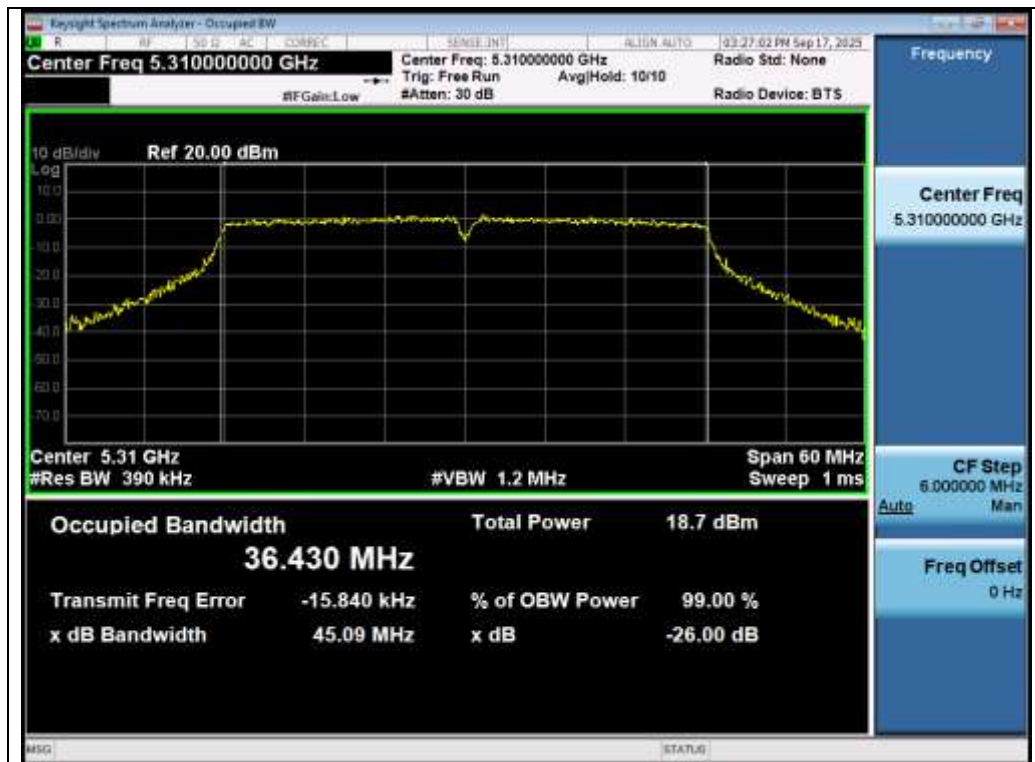


Test_Graph_802.11ac20_ANT1_5320_MCS0_OBW

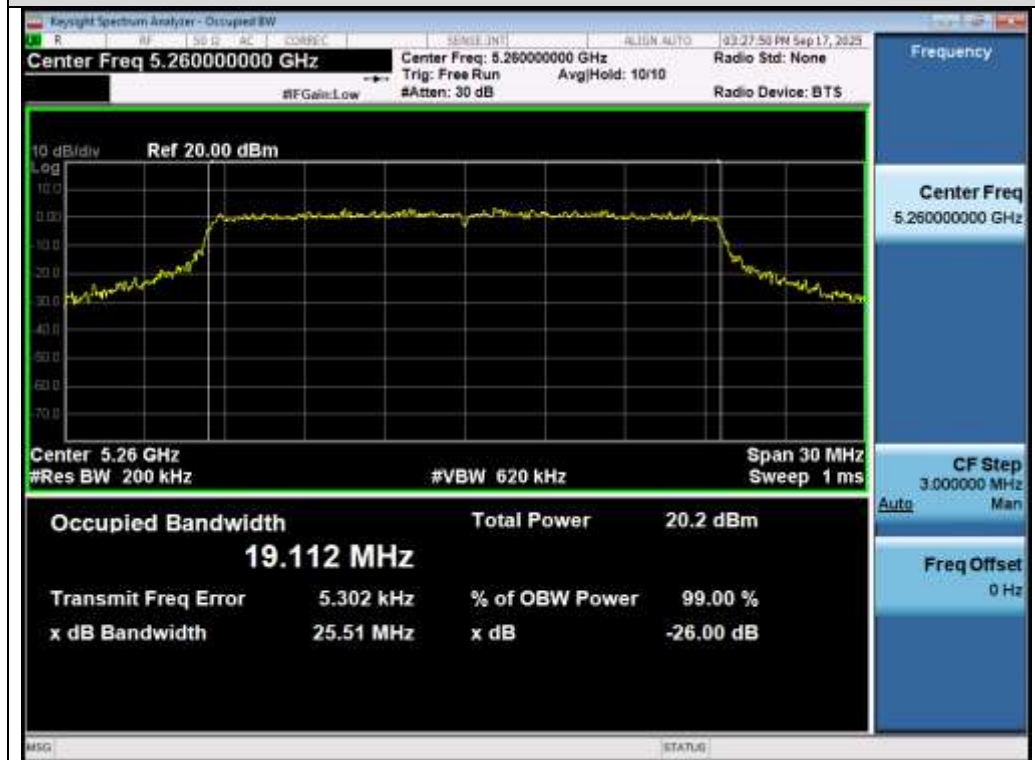


Test_Graph_802.11ac40_ANT1_5270_MCS0_OBW

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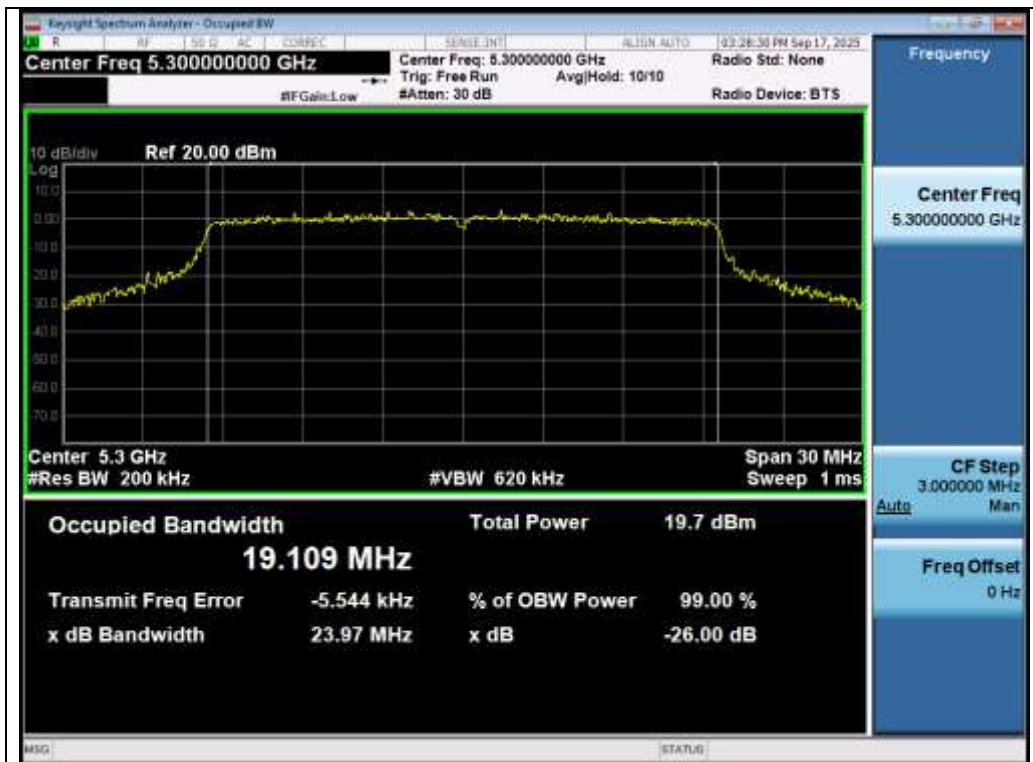


Test_Graph_802.11ac40_ANT1_5310_MCS0_OBW



Test_Graph_802.11ax20_ANT1_5260_MCS0_OBW

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Test_Graph_802.11ax20_ANT1_5300_MCS0_OBW

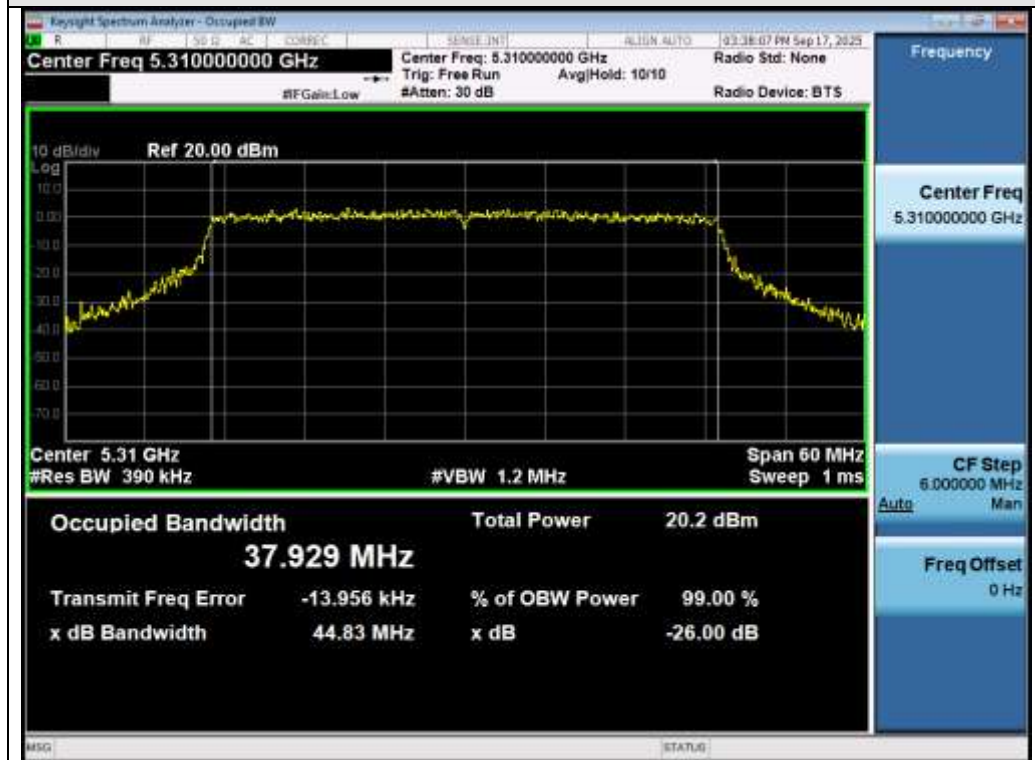


Test_Graph_802.11ax20_ANT1_5320_MCS0_OBW

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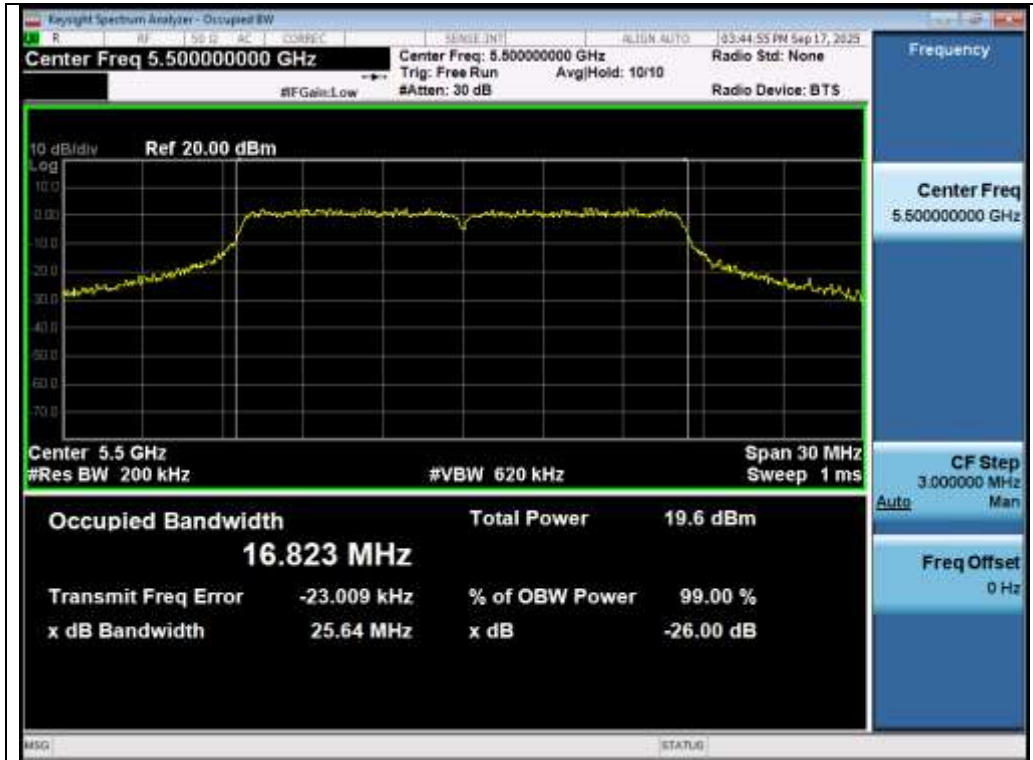
Test_Graph_802.11ax40_ANT1_5270_MCS0_OBW



Test_Graph_802.11ax40_ANT1_5310_MCS0_OBW

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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.470-5.725 GHz



Test_Graph_802.11a_ANT1_5500_6Mbps_OBW

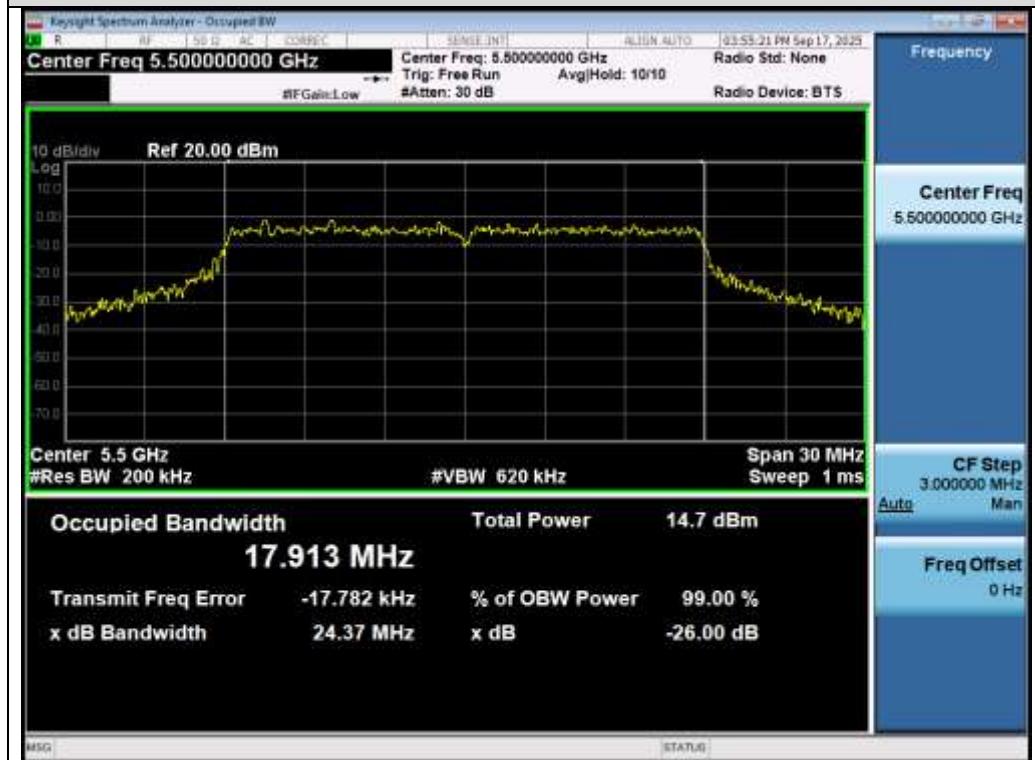


Test_Graph_802.11a_ANT1_5580_6Mbps_OBW

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Test_Graph_802.11a_ANT1_5700_6Mbps_OBW

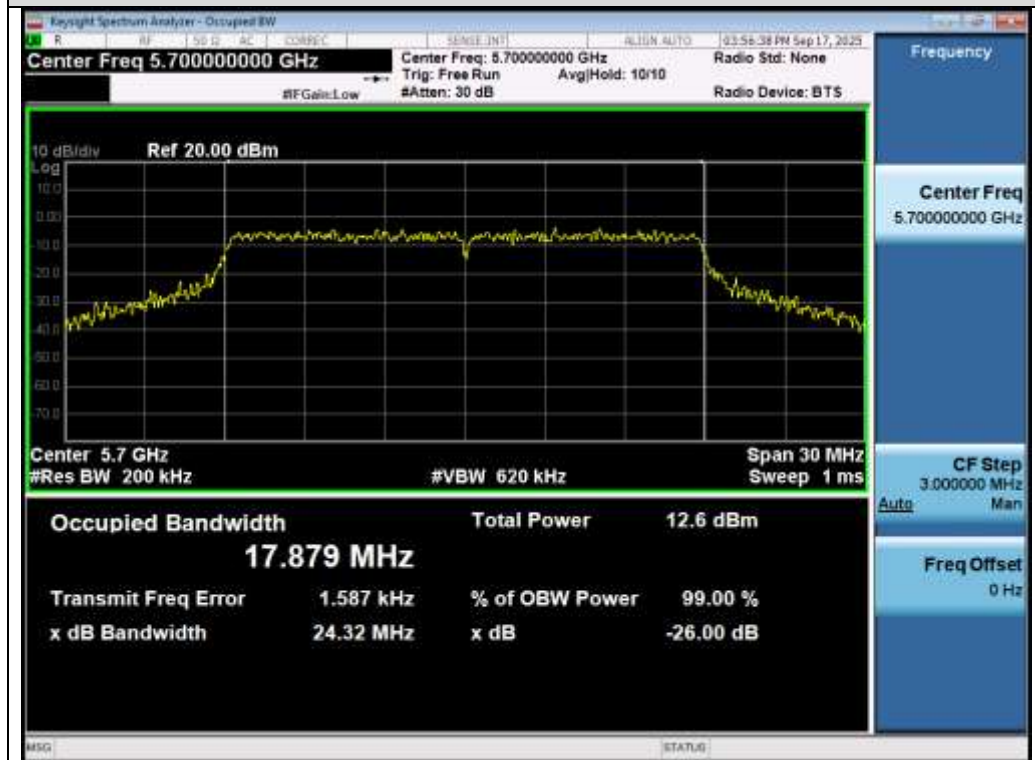


Test_Graph_802.11n20_ANT1_5500_MCS0_OBW

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Test_Graph_802.11n20_ANT1_5580_MCS0_OBW



Test_Graph_802.11n20_ANT1_5700_MCS0_OBW

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Test_Graph_802.11n40_ANT1_5510_MCS0_OBW



Test_Graph_802.11n40_ANT1_5550_MCS0_OBW

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Test_Graph_802.11n40_ANT1_5670_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5500_MCS0_OBW

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Test_Graph_802.11ac20_ANT1_5580_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5700_MCS0_OBW

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Test_Graph_802.11ac40_ANT1_5510_MCS0_OBW

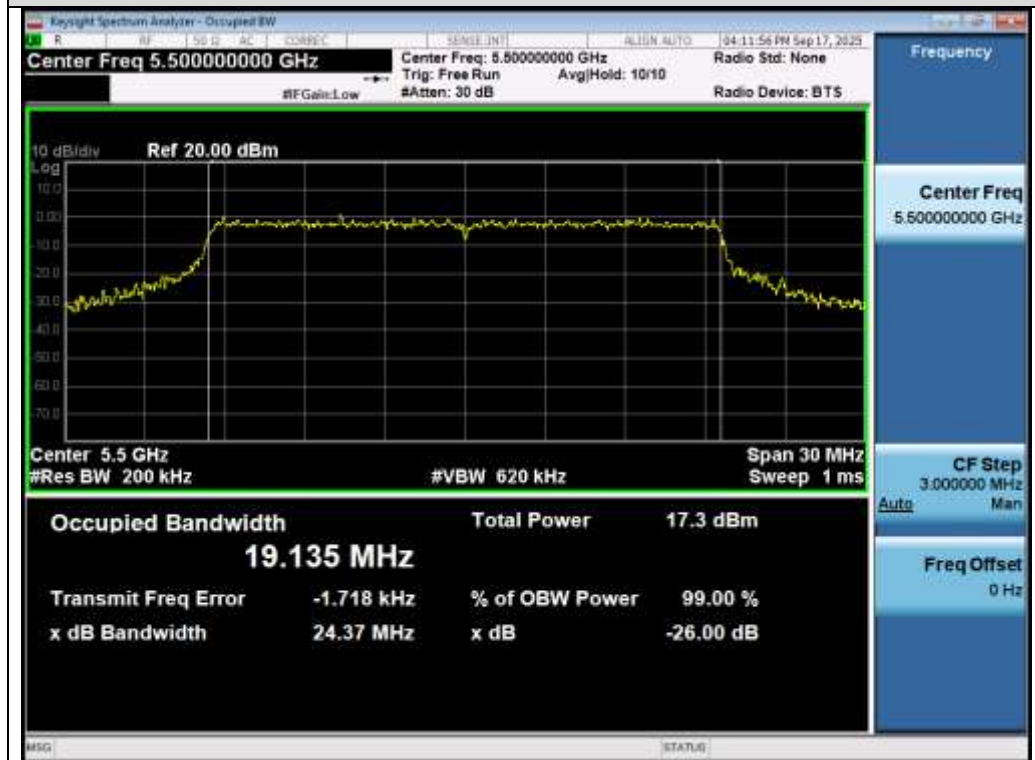


Test_Graph_802.11ac40_ANT1_5550_MCS0_OBW

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Test_Graph_802.11ac40_ANT1_5670_MCS0_OBW



Test_Graph_802.11ax20_ANT1_5500_MCS0_OBW

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Test_Graph_802.11ax20_ANT1_5580_MCS0_OBW

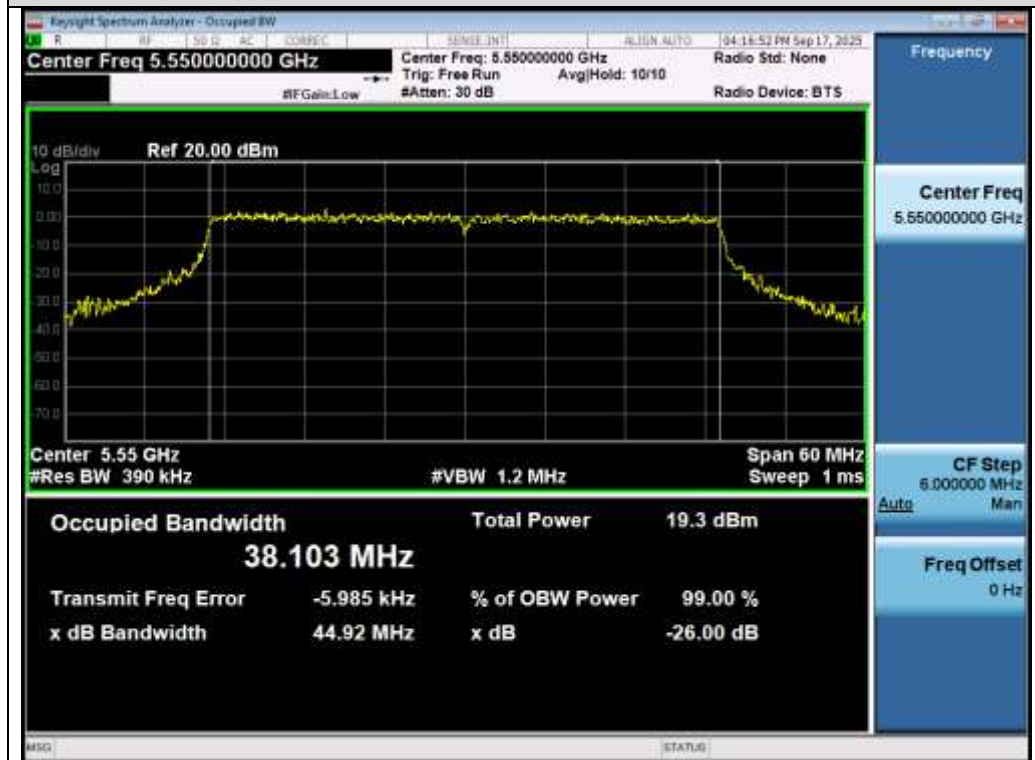


Test_Graph_802.11ax20_ANT1_5700_MCS0_OBW

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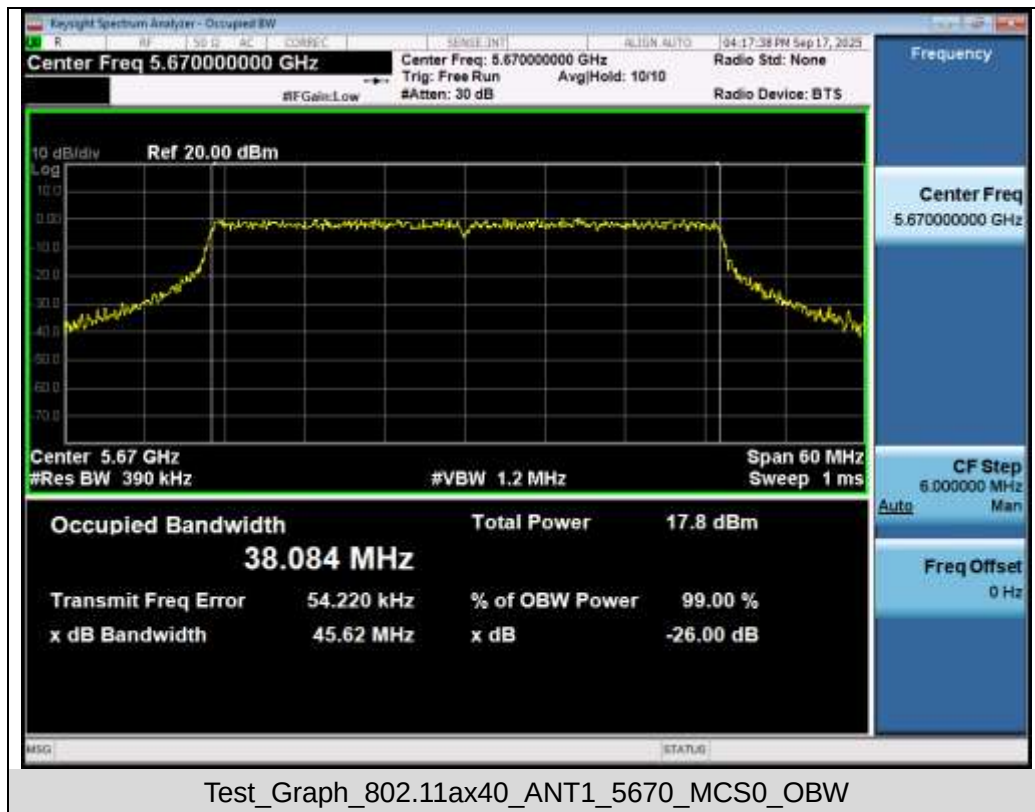


Test_Graph_802.11ax40_ANT1_5510_MCS0_OBW



Test_Graph_802.11ax40_ANT1_5550_MCS0_OBW

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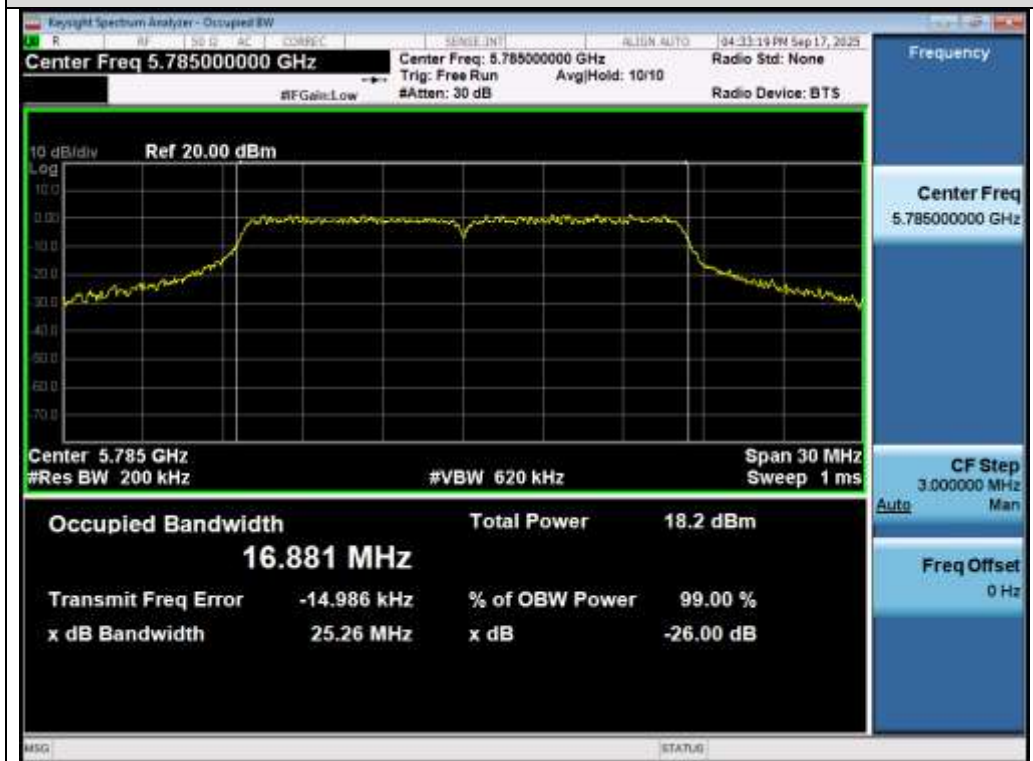


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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.745-5.825 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_OBW

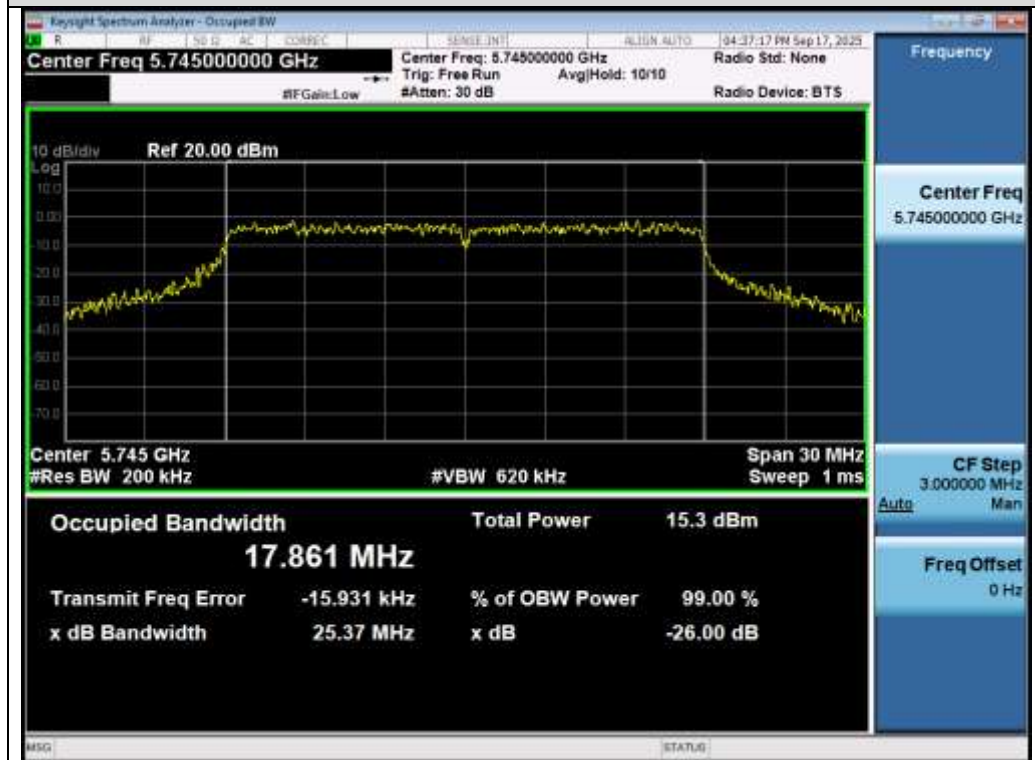


Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

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Test_Graph_802.11a_ANT1_5825_6Mbps_OBW

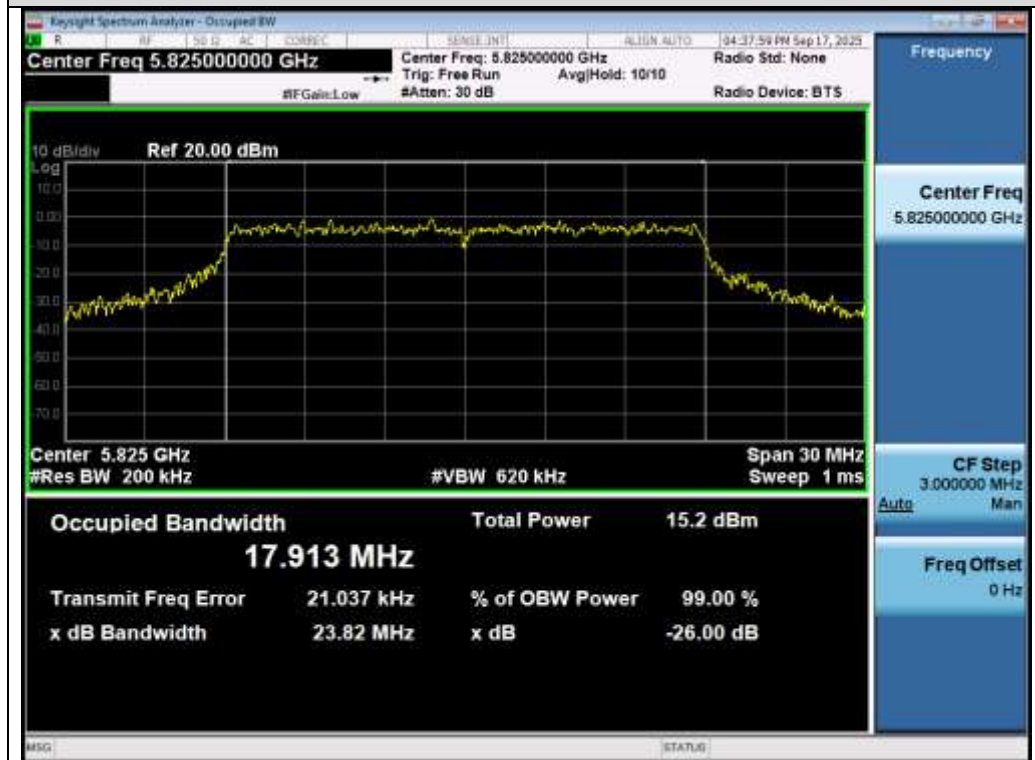


Test_Graph_802.11n20_ANT1_5745_MCS0_OBW

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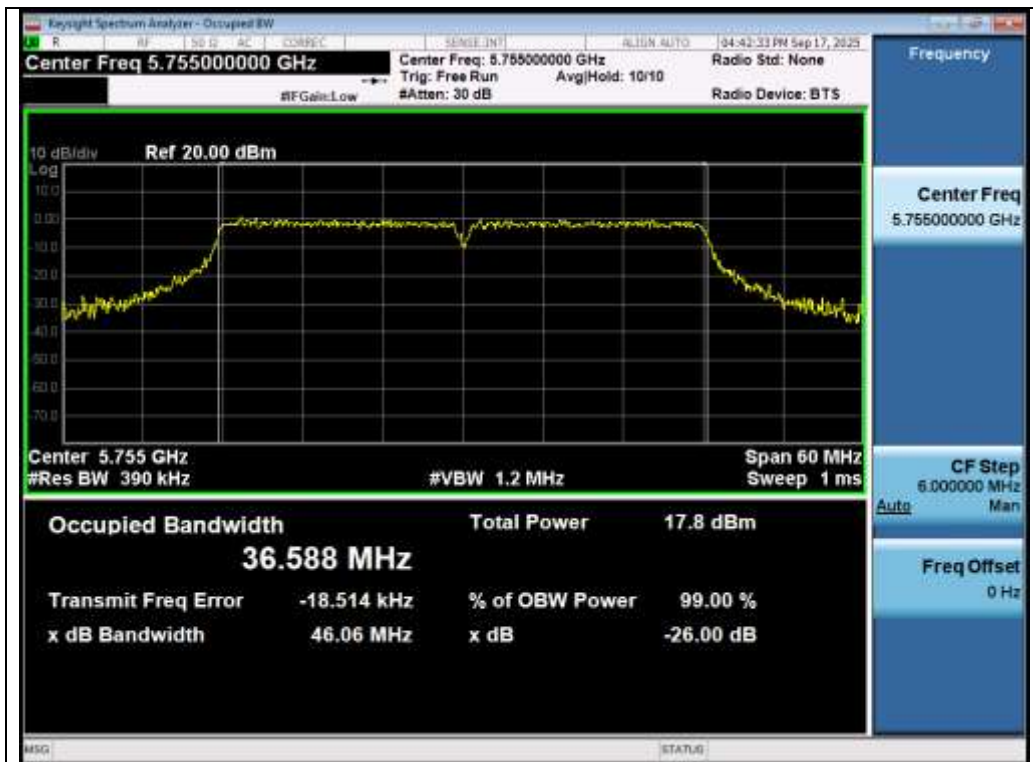


Test_Graph_802.11n20_ANT1_5785_MCS0_OBW

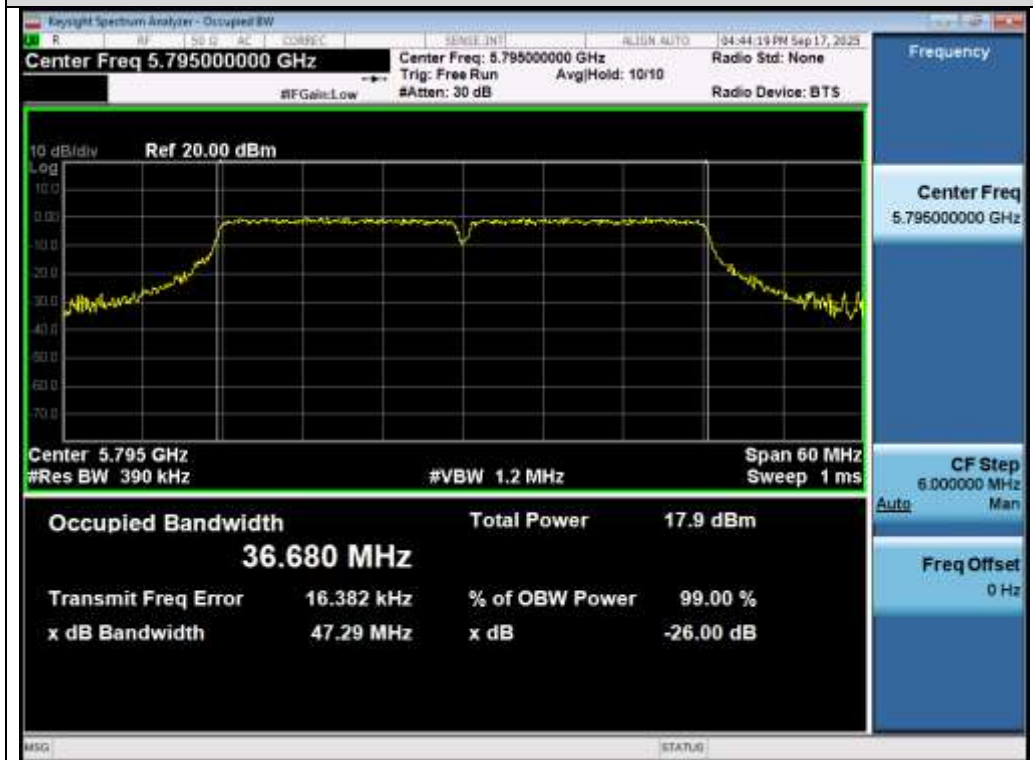


Test_Graph_802.11n20_ANT1_5825_MCS0_OBW

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Test_Graph_802.11n40_ANT1_5755_MCS0_OBW

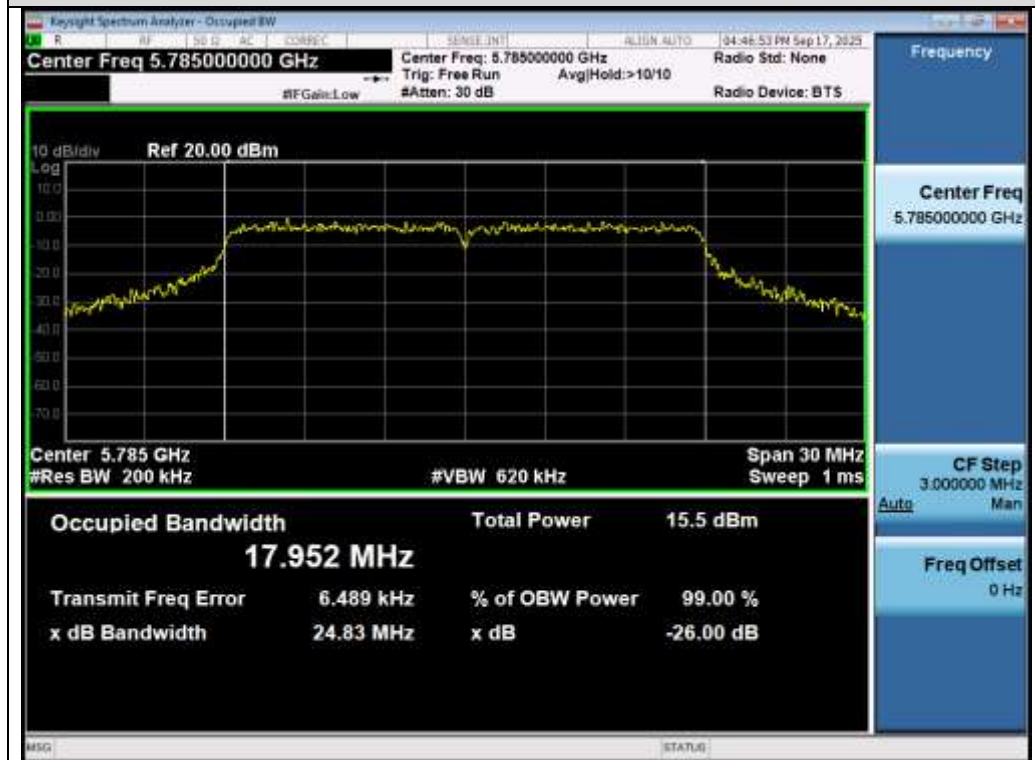


Test_Graph_802.11n40_ANT1_5795_MCS0_OBW

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Test_Graph_802.11ac20_ANT1_5745_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5785_MCS0_OBW

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Test_Graph_802.11ac20_ANT1_5825_MCS0_OBW

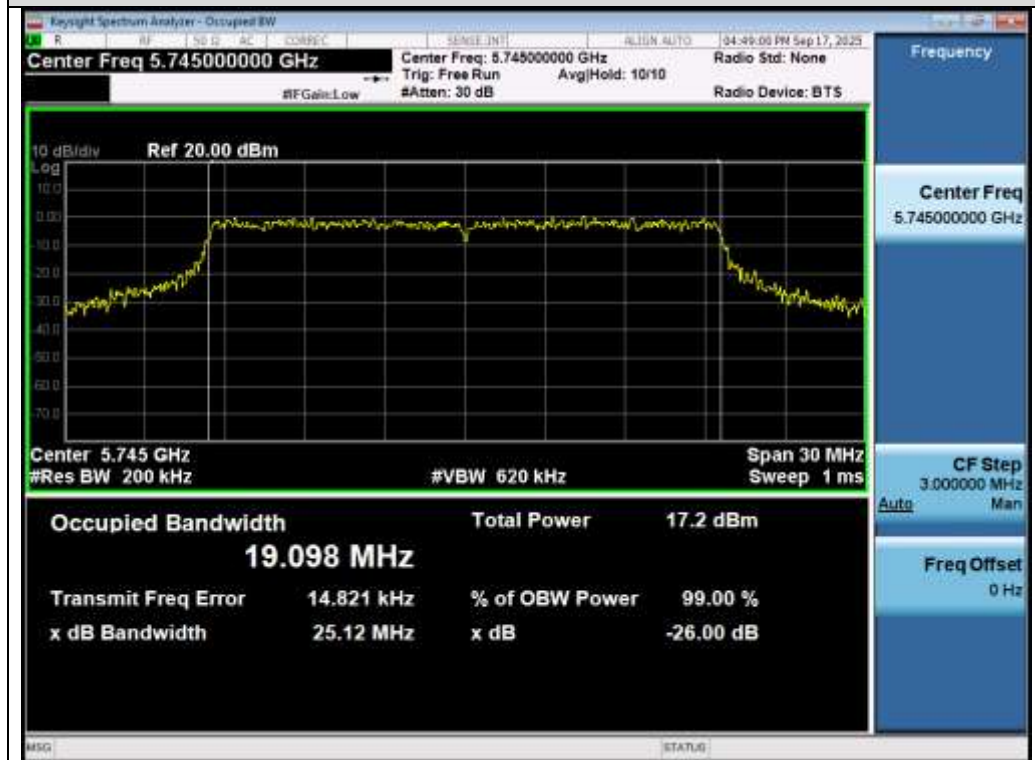


Test_Graph_802.11ac40_ANT1_5755_MCS0_OBW

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Test_Graph_802.11ac40_ANT1_5795_MCS0_OBW



Test_Graph_802.11ax20_ANT1_5745_MCS0_OBW

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Test_Graph_802.11ax20_ANT1_5785_MCS0_OBW

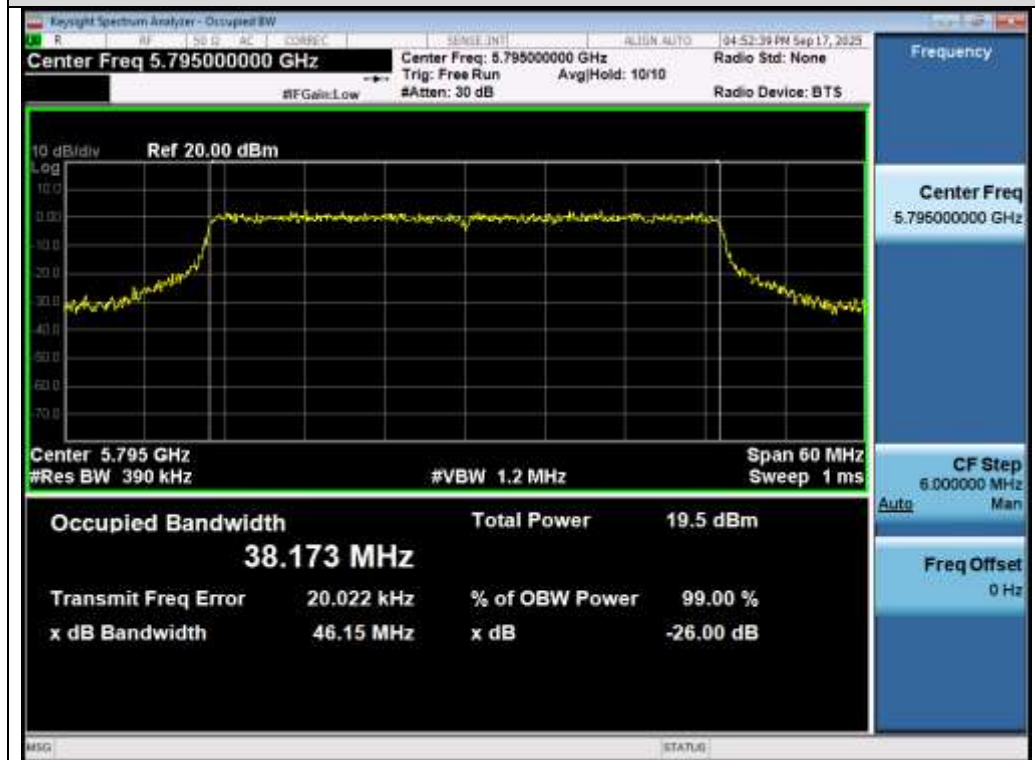


Test_Graph_802.11ax20_ANT1_5825_MCS0_OBW

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Test_Graph_802.11ax40_ANT1_5755_MCS0_OBW



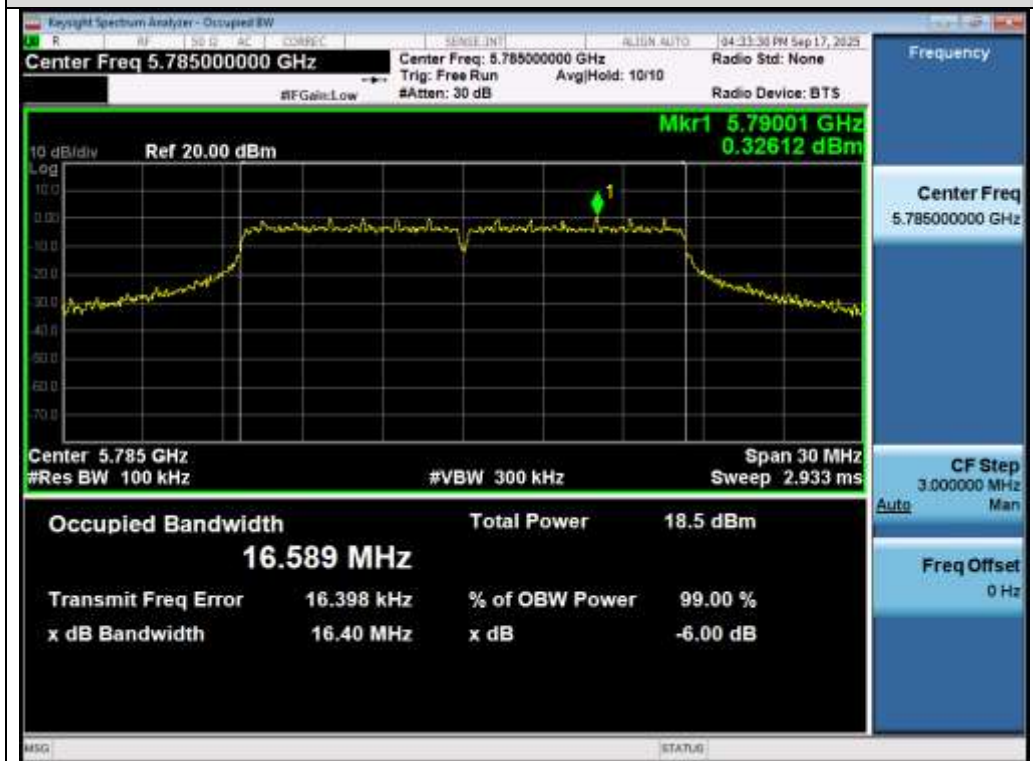
Test_Graph_802.11ax40_ANT1_5795_MCS0_OBW

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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW



Test_Graph_802.11a_ANT1_5785_6Mbps_DTSBW

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



Test_Graph_802.11a_ANT1_5825_6Mbps_DTSBW



Test_Graph_802.11n20_ANT1_5745_MCS0_DTSBW

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Test_Graph_802.11n20_ANT1_5785_MCS0_DTSBW

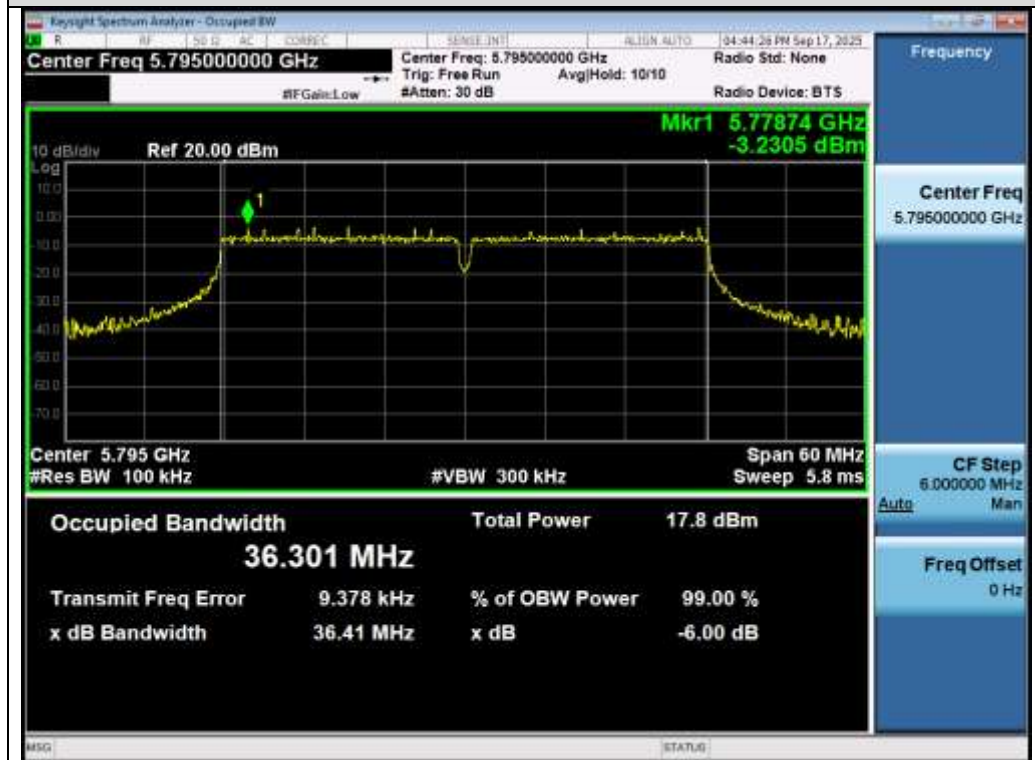


Test_Graph_802.11n20_ANT1_5825_MCS0_DTSBW

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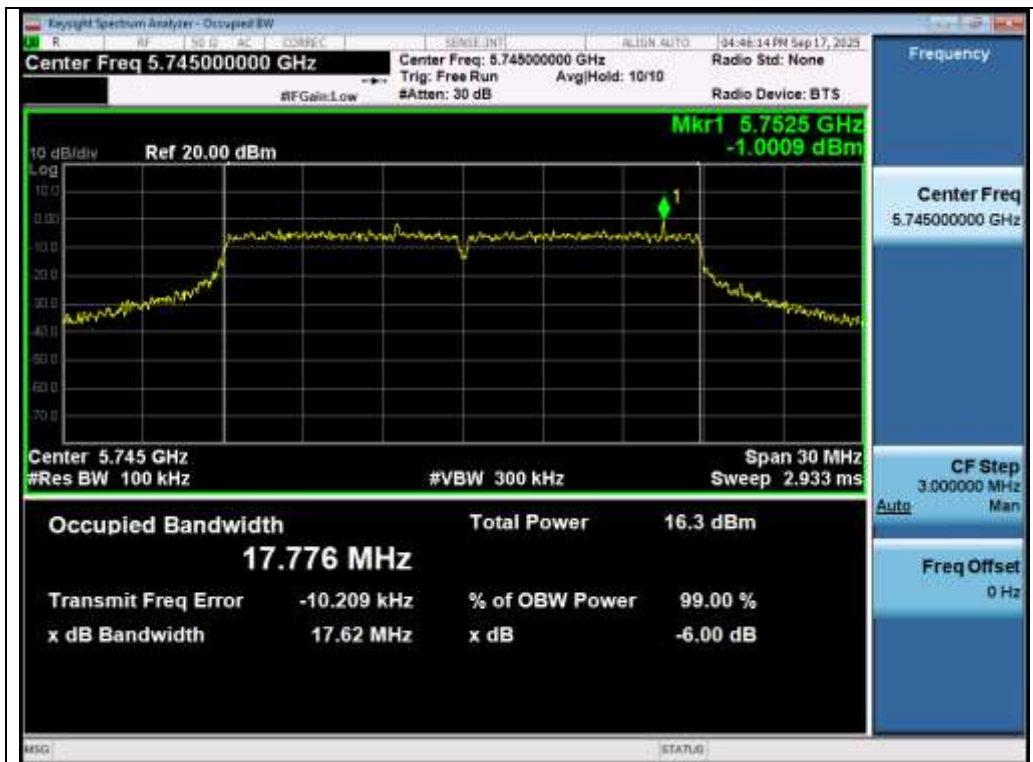


Test_Graph_802.11n40_ANT1_5755_MCS0_DTSBW



Test_Graph_802.11n40_ANT1_5795_MCS0_DTSBW

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Test_Graph_802.11ac20_ANT1_5745_MCS0_DTSBW



Test_Graph_802.11ac20_ANT1_5785_MCS0_DTSBW

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Test_Graph_802.11ac20_ANT1_5825_MCS0_DTSBW



Test_Graph_802.11ac40_ANT1_5755_MCS0_DTSBW

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Test_Graph_802.11ac40_ANT1_5795_MCS0_DTSBW



Test_Graph_802.11ax20_ANT1_5745_MCS0_DTSBW

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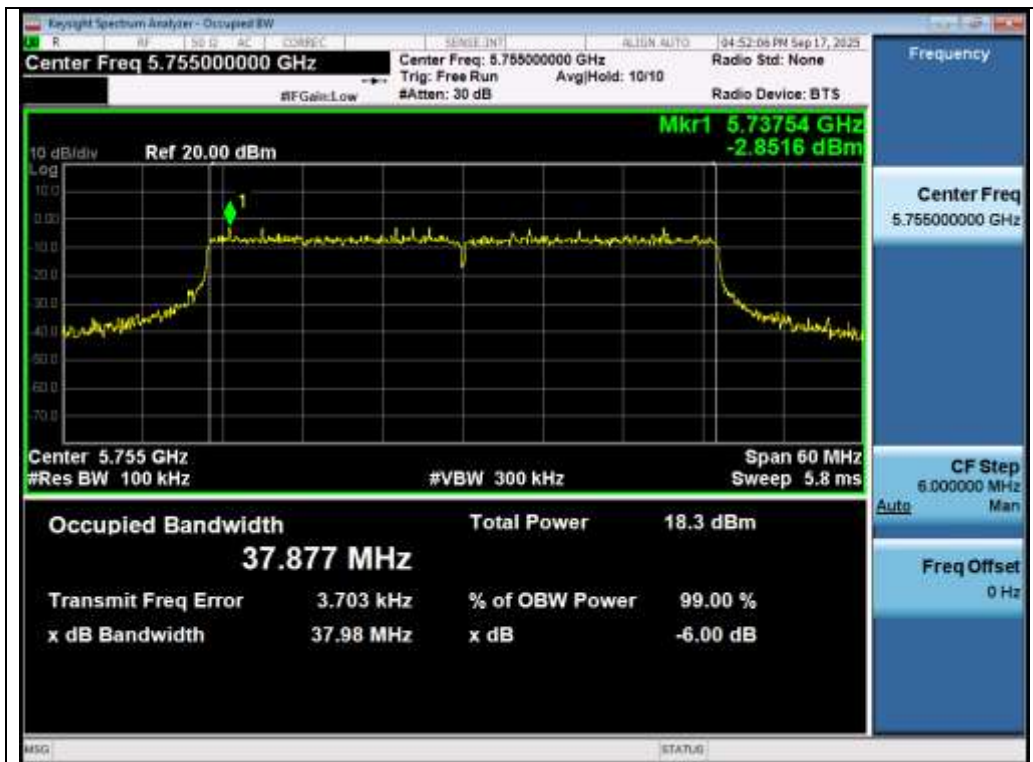


Test_Graph_802.11ax20_ANT1_5785_MCS0_DTSBW



Test_Graph_802.11ax20_ANT1_5825_MCS0_DTSBW

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Test_Graph_802.11ax40_ANT1_5755_MCS0_DTSBW



Test_Graph_802.11ax40_ANT1_5795_MCS0_DTSBW

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9. Power Spectral Density Measurement

9.1 Provisions Applicable

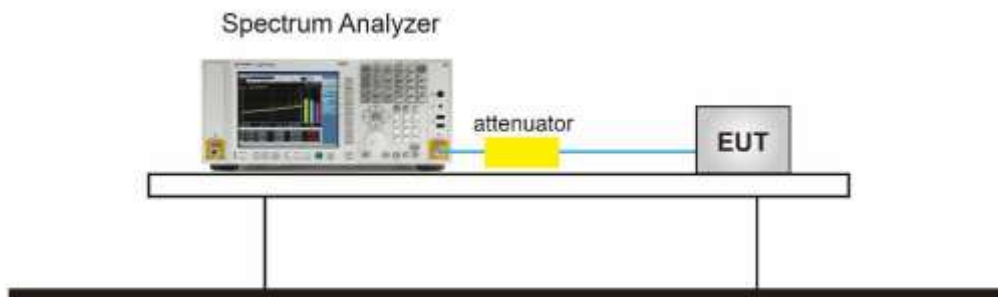
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

9.2 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 $\times$ 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 $10 \times \log(500\text{kHz}/100\text{kHz}) = 6.99$ 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 dB if the duty cycle is 25%.
12. The final test results have been increased by the duty cycle factor and recorded in the report

9.3 Measurement Setup (Block Diagram of Configuration)



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9.4 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	2.769	9.97	Pass
	5200	2.663	9.97	Pass
	5240	2.682	9.97	Pass
802.11n20	5180	1.060	9.97	Pass
	5200	0.836	9.97	Pass
	5240	0.819	9.97	Pass
802.11n40	5190	-1.830	9.97	Pass
	5230	-1.862	9.97	Pass
802.11ac20	5180	1.079	9.97	Pass
	5200	1.199	9.97	Pass
	5240	0.957	9.97	Pass
802.11ac40	5190	-2.166	9.97	Pass
	5230	-2.003	9.97	Pass
802.11ax20	5180	0.877	9.97	Pass
	5200	0.628	9.97	Pass
	5240	0.861	9.97	Pass
802.11ax40	5190	-2.135	9.97	Pass
	5230	-2.197	9.97	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	2.568	9.97	Pass
	5300	1.852	9.97	Pass
	5320	1.580	9.97	Pass
802.11n20	5260	1.413	9.97	Pass
	5300	0.829	9.97	Pass
	5320	0.405	9.97	Pass
802.11n40	5270	-1.898	9.97	Pass
	5310	-2.268	9.97	Pass
802.11ac20	5260	1.368	9.97	Pass
	5300	0.974	9.97	Pass
	5320	0.346	9.97	Pass
802.11ac40	5270	-1.822	9.97	Pass
	5310	-2.507	9.97	Pass
802.11ax20	5260	1.269	9.97	Pass
	5300	0.693	9.97	Pass
	5320	0.344	9.97	Pass
802.11ax40	5270	-1.768	9.97	Pass
	5310	-2.405	9.97	Pass

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Test Data of Conducted Output Power Density for band 5.470-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	1.844	9.97	Pass
	5600	0.572	9.97	Pass
	5700	-0.930	9.97	Pass
802.11n20	5500	-1.878	9.97	Pass
	5600	-2.905	9.97	Pass
	5700	-4.499	9.97	Pass
802.11n40	5510	-2.937	9.97	Pass
	5590	-3.724	9.97	Pass
	5670	-5.400	9.97	Pass
802.11ac20	5500	-1.819	9.97	Pass
	5600	-2.932	9.97	Pass
	5700	-4.328	9.97	Pass
802.11ac40	5510	-3.075	9.97	Pass
	5590	-3.697	9.97	Pass
	5670	-5.348	9.97	Pass
802.11ax20	5500	-1.987	9.97	Pass
	5600	-3.233	9.97	Pass
	5700	-4.535	9.97	Pass
802.11ax40	5510	-3.075	9.97	Pass
	5590	-3.670	9.97	Pass
	5670	-5.449	9.97	Pass

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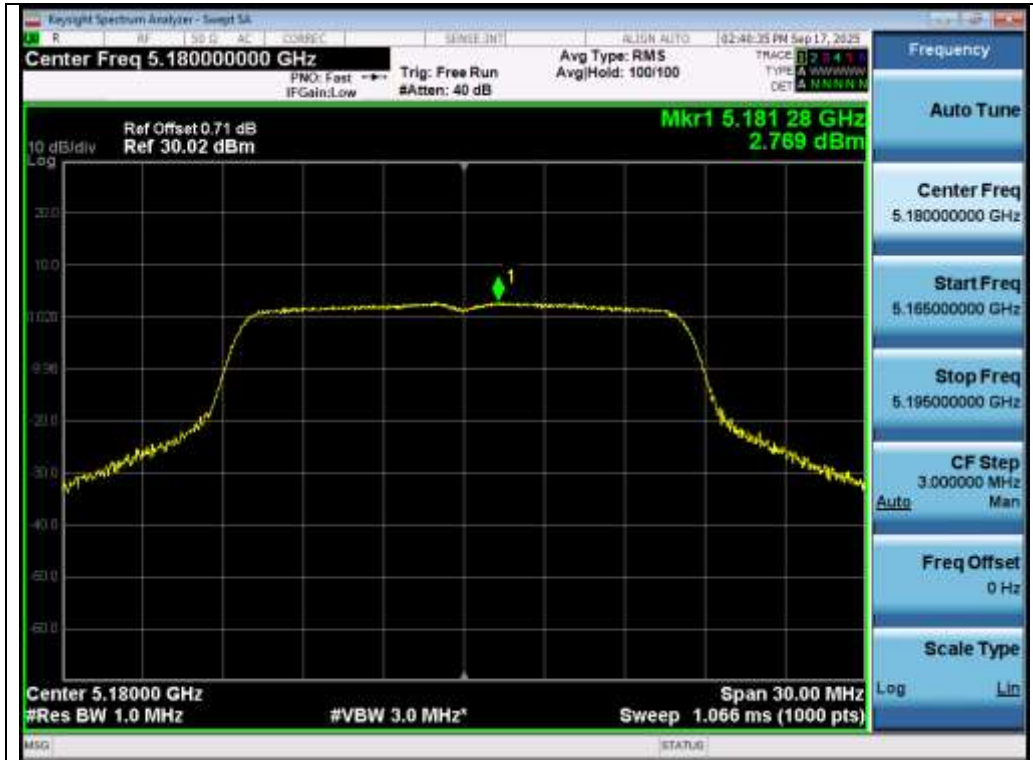
Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-7.921	-0.931	28.97	Pass
	5785	-8.476	-1.486	28.97	Pass
	5825	-8.337	-1.347	28.97	Pass
802.11n20	5745	-9.905	-2.915	28.97	Pass
	5785	-10.379	-3.389	28.97	Pass
	5825	-10.628	-3.638	28.97	Pass
802.11n40	5755	-12.566	-5.576	28.97	Pass
	5795	-12.888	-5.898	28.97	Pass
802.11ac20	5745	-10.019	-3.029	28.97	Pass
	5785	-10.699	-3.709	28.97	Pass
	5825	-10.412	-3.422	28.97	Pass
802.11ac40	5755	-12.270	-5.280	28.97	Pass
	5795	-13.076	-6.086	28.97	Pass
802.11ax20	5745	-11.364	-4.374	28.97	Pass
	5785	-11.740	-4.750	28.97	Pass
	5825	-11.591	-4.601	28.97	Pass
802.11ax40	5755	-13.337	-6.347	28.97	Pass
	5795	-13.849	-6.859	28.97	Pass

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

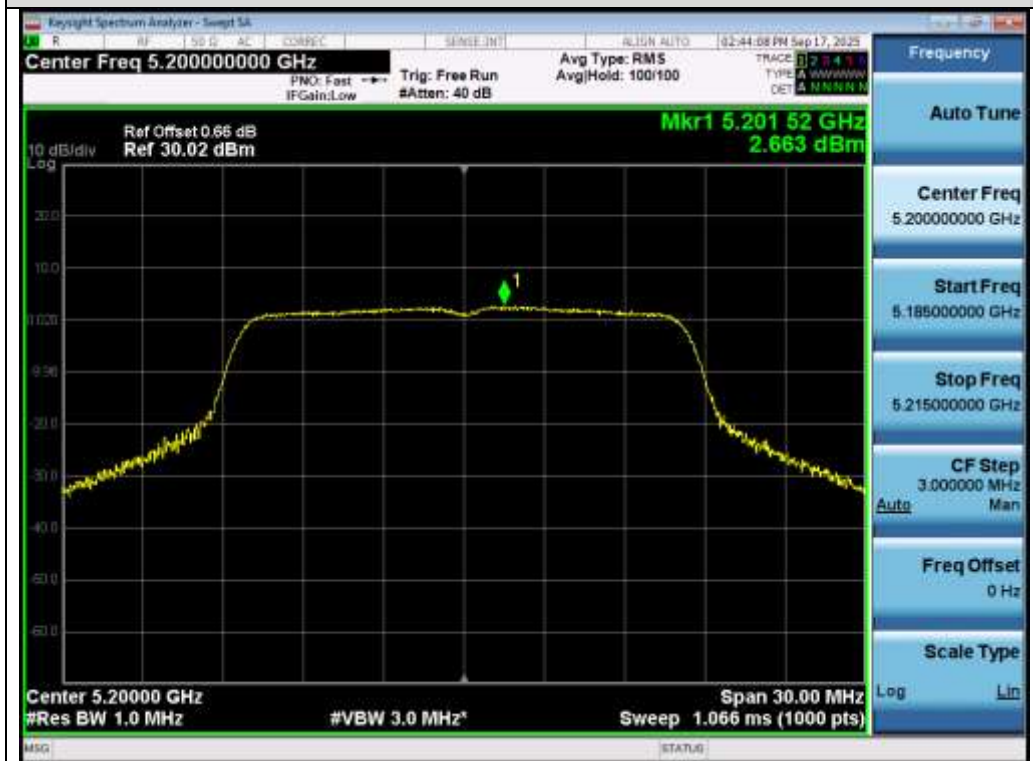
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Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_PSD



Test_Graph_802.11a_ANT1_5200_6Mbps_PSD

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