FCC Test Report

Report No.: AGC00408250704FR04

FCC ID	:	2A3DR-AGMG3
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	5G Smart Phone
BRAND NAME	:	AGM
MODEL NAME	:	AGM_G3, AGM_G3_PRO
APPLICANT	:	AGM MOBILE LIMITED
DATE OF ISSUE	:	Oct. 16, 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	/	Oct. 16, 2025	Valid	Initial Release

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1. General Information

Applicant	AGM MOBILE LIMITED
Address	FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEUNG CIRCUIT TUEN MUN NT HONG KONG, CHINA
Manufacturer	AGM MOBILE LIMITED
Address	FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEUNG CIRCUIT TUEN MUN NT HONG KONG, CHINA
Factory	GUANGDONG AIJIEMO ELECTRONIC INDUSTRY CO., LTD
Address	AGM TECHNOLOGY PARK, NO.187 LIANFA ROAD, TONGQIAO TOWN, ZHONGKAI HIGH-TECH DISTRICT, HUIZHOU CITY, P.R.CHINA
Product Designation	5G Smart Phone
Brand Name	AGM
Test Model	AGM_G3
Series Model(s)	AGM_G3_PRO
Difference Description	All models are identical except for model name and with or without rear auxiliary camera; AGM_G3 features a rear auxiliary camera, AGM_G3_PRO lacks a rear auxiliary camera.
Date of receipt of test item	Jul. 15, 2025
Date of Test	Jul. 15, 2025~Oct. 10, 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 (Project Engineer)	Oct. 16, 2025
Reviewed By	Bibo Zhang (Reviewer)	Oct. 16, 2025
Approved By	Angela Li (Authorized Officer)	Oct. 16, 2025

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2. Product Information

2.1 Product Technical Description

Equipment Type	☐ Outdoor access points ☐ Indoor access points ☐ Fixed P2P access points ☒ Client devices
Operation Frequency	☒ U-NII 1:5150MHz~5250MHz ☐ U-NII 2A: 5250MHz~5350MHz ☐ U-NII 2C:5470MHz~5725MHz ☒ U-NII 3: 5725MHz~5850MHz
DFS Design Type	☐ Master ☐ Slave with radar detection ☒ Slave without radar detection
TPC Function	☐ Yes ☒ No
Hardware Version	M822_V1.0
Software Version	V1.0
Test Frequency Range	For 802.11a/n-HT20/ac-VHT20/ax-HE20:5180~5240MHz/5745~5825MHz; For 802.11n-HT40/ac-VHT40/ax-HE40:5190~5230MHz/5755~5795MHz; For 802.11ac-VHT80/ ax-HE80:5210MHz/5775MHz
RF Output Power	802.11a:12.83dBm,802.11n(HT20):11.69dBm; 802.11n(HT40):11.38dBm; 802.11ac(VHT20):11.60dBm;802.11ac(VHT40):11.36dBm; 802.11ac(VHT80):10.48dBm;802.11ax(HE20):10.45dBm; 802.11ax(HE40):9.65dBm;802.11ax (HE80):9.85dBm
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 150Mbps 802.11ac: up to 433.3Mbps 802.11ax: up to 600Mbps
Number of channels	7 channels of U-NII-1 Band; 8 channels of U- NII 3 Band
Antenna Designation	PIFA Antenna
Antenna Gain	U-NII-1: -1.38dBi; U- NII 3: -0.8dBi
Power Supply	DC 3.87V, 10000mAh by battery

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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

1 channel is provided for 802.11ac (VHT80), 802.11ax (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 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

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
155	5775 MHz	--	--

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2.3 IEEE 802.11n Modulation Scheme

MCS Index	Nss	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: 2A3DR-AGMG3** 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 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
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 U-NII-1: -1.38dBi; U- NII 3: -0.8dBi.

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2.9 Description of Test Software

For IEEE 802.11 mode:

The test software is through engineering commands. EUT can be set to a separate test mode.

Test Mode 5150MHz~5250MHz	Channel	Power Index
802.11a	L/M/H	18.5
802.11n(HT20)	L/M/H	17.5
802.11n(HT40)	L/M/H	17.5
802.11ac(VHT20)	L/M/H	17.5
802.11ac(VHT40)	L/M/H	17.5
802.11ac(VHT80)	L/M/H	16.5
802.11ax(HE20)	L/M/H	16.0
802.11ax(HE40)	L/M/H	16.0
802.11ax(HE80)	L/M/H	16.0
Test Mode 5725MHz~5850MHz	Channel	Power Index
802.11a	L/M/H	18.5
802.11n(HT20)	L/M/H	17.5
802.11n(HT40)	L/M/H	17.5
802.11ac(VHT20)	L/M/H	17.5
802.11ac(VHT40)	L/M/H	17.5
802.11ac(VHT80)	L/M/H	16.5
802.11ax(HE20)	L/M/H	16.0
802.11ax(HE40)	L/M/H	16.0
802.11ax(HE80)	L/M/H	16.0

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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 (℃)	15 - 35
Relative humidity range	20% - 75%
Pressure range (kPa)	86 - 106
Power supply	DC 3.87V by battery

3.4 Measurement Uncertainty

The reported uncertainty of measurement y ±U, where expended 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 = ±2.9 dB
Uncertainty of Radiated Emission below 1GHz	U_c = ±3.9 dB
Uncertainty of Radiated Emission above 1GHz	U_c = ±4.9 dB
Uncertainty of total RF power, conducted	U_c = ±0.8 dB
Uncertainty of RF power density, conducted	U_c = ±2.6 dB
Uncertainty of spurious emissions, conducted	U_c = ±2 %
Uncertainty of Occupied Channel Bandwidth	U_c = ±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-E087	Spectrum Analyzer	KEYSIGHT	N9020B	MY56101792	2025-05-08	2026-05-07
☒	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	2025-05-16	2027-05-15
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
☒	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	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	BRM50716	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-A171	Attenuator	Mini-Circuits	UNAT-10A+	N/A	2024-02-01	2026-01-31
☒	AGC-EM-E023	Artificial Mains Network	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07
☒	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
☒	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
☒	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
☐	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

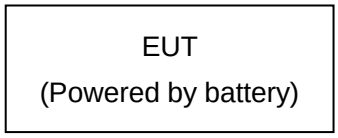
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

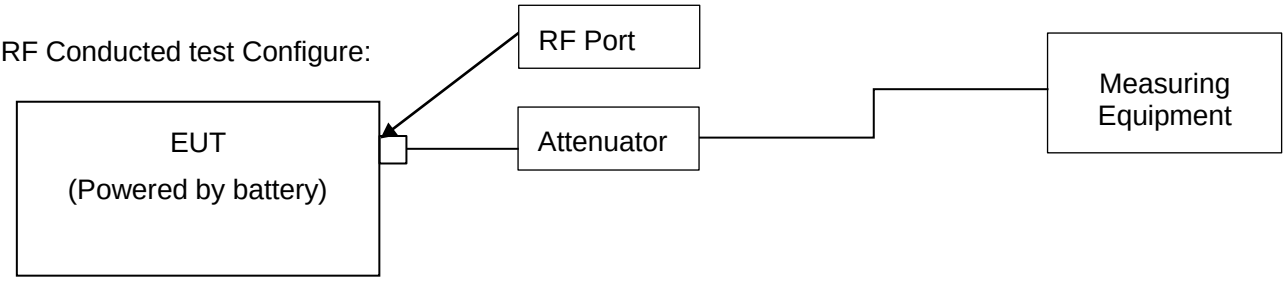
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

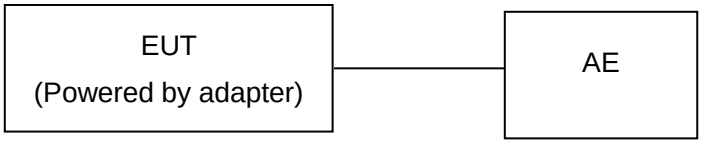
Radiated Emission Configure:



RF Conducted test Configure:



AC Power Line Conducted Emission 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

☒ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Battery	Shenzhen Jiajinyuan Technology Co., Ltd.	TG10	DC 3.87V 10000mAh	--
2	Adapter	SHEN ZHEN HUAJIN ELECTRONICS CO.,LTD.	HJ-PD33W-US	Input: AC 100-240V 50/60Hz, 0.8A Output: DC 5V 3A;9V 3A;12V 2.75A	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/1/3)	RF Output Power	Pass
3	§15.407(e)	6dB Bandwidth Measurement	Pass
4	§15.403(a)	26dB bandwidth Measurement	Pass
5	§15.407(a/1/3)	Power Spectral Density	Pass
6	§15.407(b)(1/4)	Conducted Spurious Emission	Pass
7	§15.209,§15.407(b)(1/4)	Radiated Emission& Band Edge	Pass
8	§15.207	AC Power Line Conducted Emission	Pass

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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	
☒	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.

Select Channel Parameter Configuration Test List						
EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
B	802.11n (20MHz)	5845-5885	169 to 177	169	OFDM	MCS0

● 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.

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)	5845-5885	169 to 177	169	OFDM	MCS0

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● 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.

Select Channel Parameter Configuration Test List						
EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
B	802.11n (20MHz)	5180-5240	36 to 48	36, 40, 48	OFDM	MCS0
B	802.11n (20MHz)	5745-5825	149 to 165	149, 157, 165	OFDM	MCS0

● 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).
☐	The device supports multiple antenna transmission, allowing MIMO technology mode to be recorded as the worst.
☐	MIMO technology is not supported, and the 802.11a mode only records the worst antenna (ANT 1) as the worst
☒	Support 802.11ax, device debugging is tested in Full RU state.
☒	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	OFDM	6.0
A	802.11n (40MHz)		38 to 46	38	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11ax (80MHz)		42	42	OFDMA	MCS0

Note: Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz. Other restricted band 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

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● Antenna 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).
☐	The device supports multiple antenna transmission, allowing MIMO technology mode to be recorded as the worst.
☐	MIMO technology is not supported, and the 802.11a mode only records the worst antenna (ANT 1) as the worst
☐	Support 802.11ax, device debugging is tested in Full RU state.
☒	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)
B	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
B	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
B	802.11ac (80MHz)		42	42	OFDM	MCS0
B	802.11ax (80MHz)		42	42	OFDMA	MCS0
B	802.11a	5745-5825	149 to 165	149, 165	OFDM	6.0
B	802.11n (40MHz)		151 to 159	151, 159	OFDM	MCS0
B	802.11ac (80MHz)		155	155	OFDM	MCS0
B	802.11ax (80MHz)		155	155	OFDMA	MCS0

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6. Duty Cycle Measurement

5GHz WLAN (NII) operation is possible in 20MHz, 40MHz and 80MHz 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	100	N/A
802.11n_HT20	MCS0	100	N/A
802.11n_HT40	MCS0	100	N/A
802.11ac_VHT20	MCS0	100	N/A
802.11ac_VHT40	MCS0	100	N/A
802.11ac_VHT80	MCS0	100	N/A
802.11ax_HE20	MCS0	100	N/A
802.11ax_HE40	MCS0	100	N/A
802.11ax_HE80	MCS0	100	N/A
Band U-NII 3:5725MHz-5850MHz			
802.11a	6	100	N/A
802.11n_HT20	MCS0	100	N/A
802.11n_HT40	MCS0	100	N/A
802.11ac_VHT20	MCS0	100	N/A
802.11ac_VHT40	MCS0	100	N/A
802.11ac_VHT80	MCS0	100	N/A
802.11ax_HE20	MCS0	100	N/A
802.11ax_HE40	MCS0	100	N/A
802.11ax_HE80	MCS0	100	N/A

Remark:

1. Duty Cycle factor = 10 * log (1/ 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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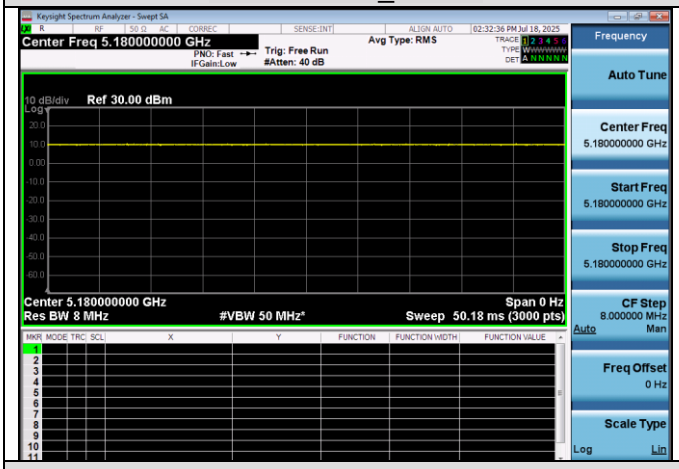
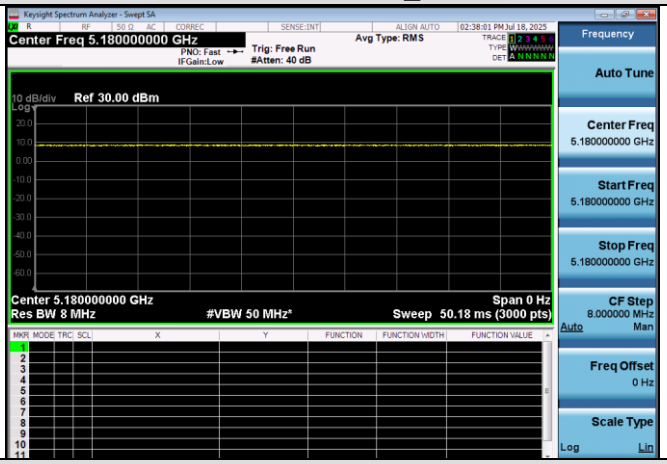
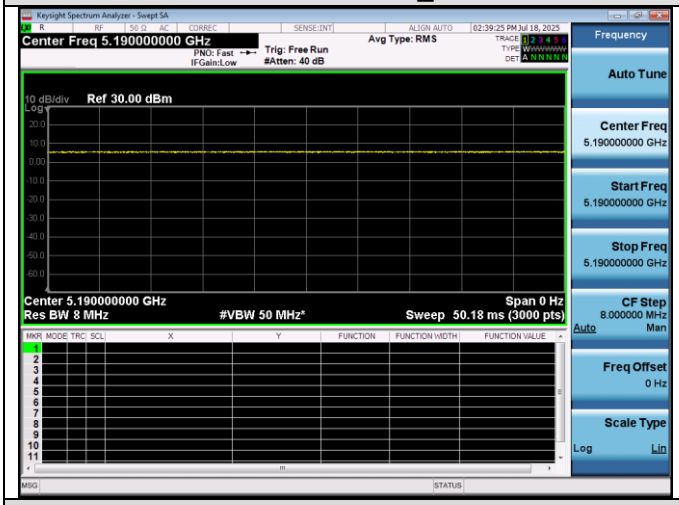
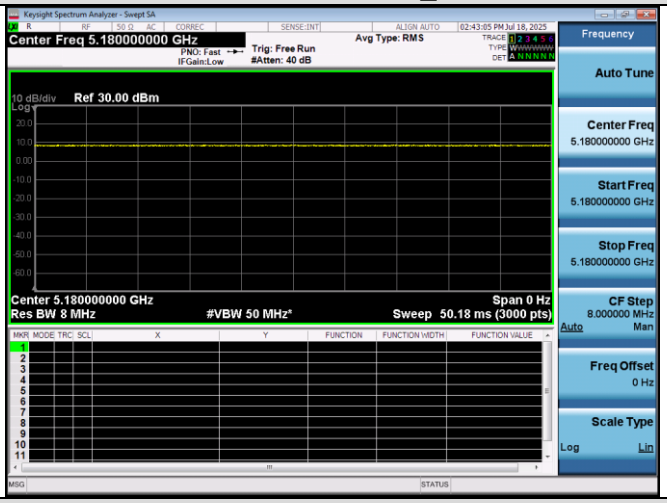
The test plots as follows:

IEEE 802.11a_U-NII 1	IEEE 802.11n-HT20_U-NII 1
	
IEEE 802.11n-HT40_U-NII 1	**IEEE 802.11ac-VHT20_U-NII 1**
	
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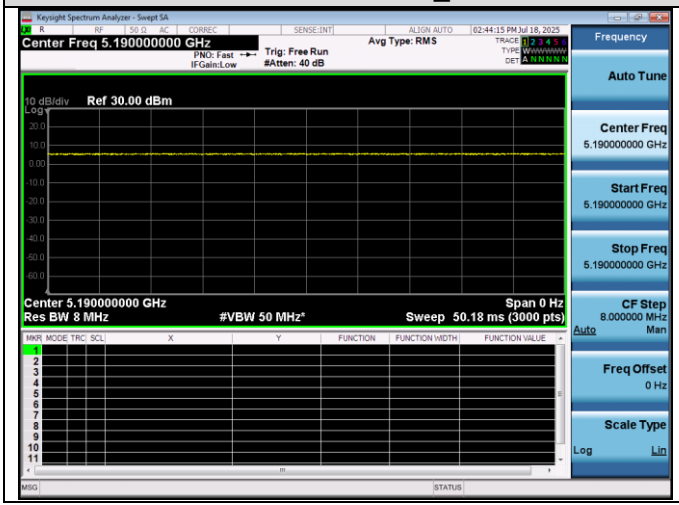	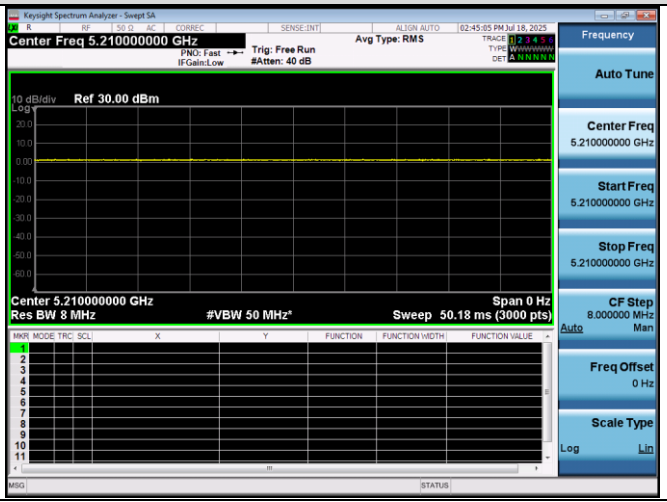

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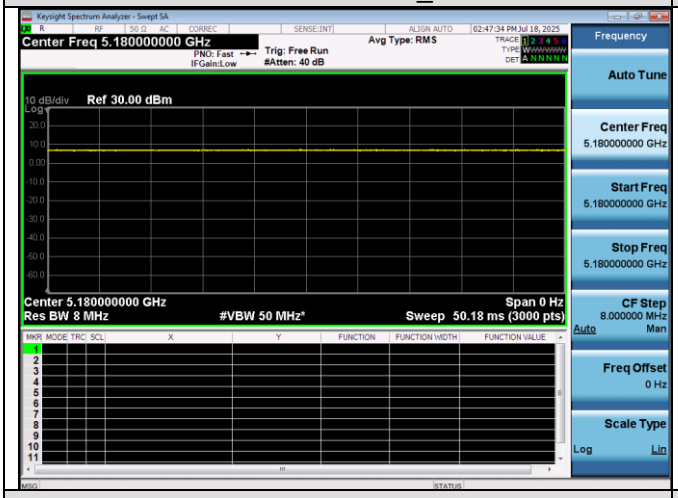
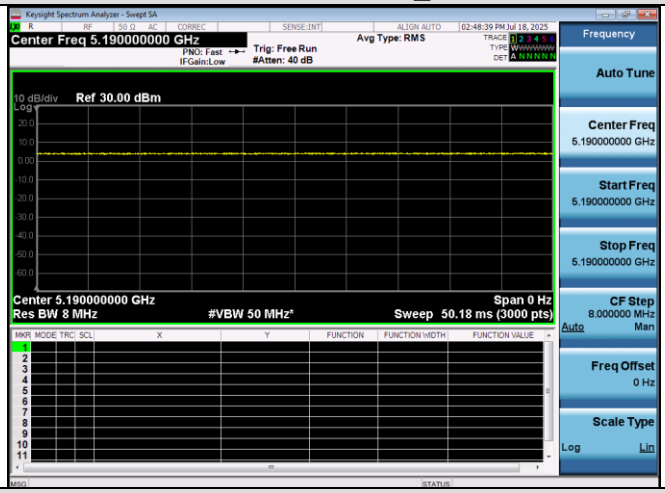
IEEE 802.11ax-HE20_U-NII 1	IEEE 802.11ax-HE40_U-NII 1
	
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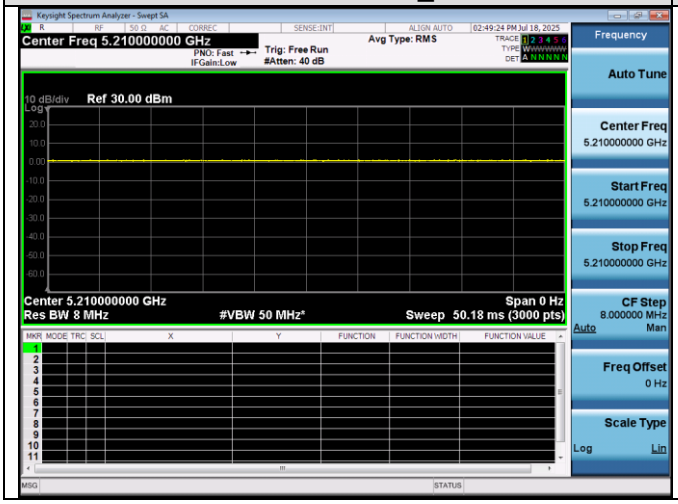	N/A

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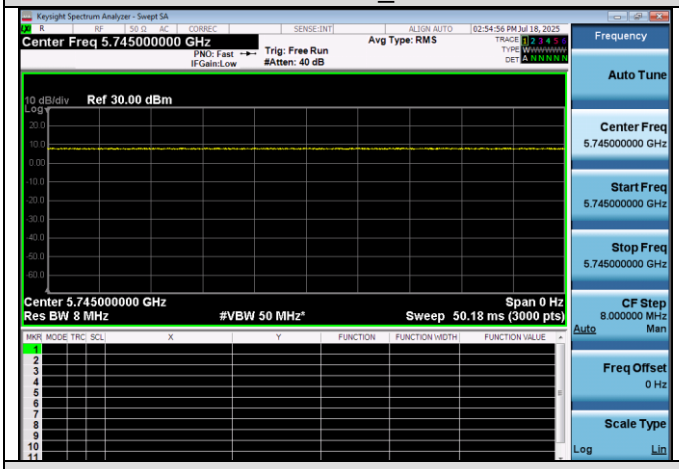
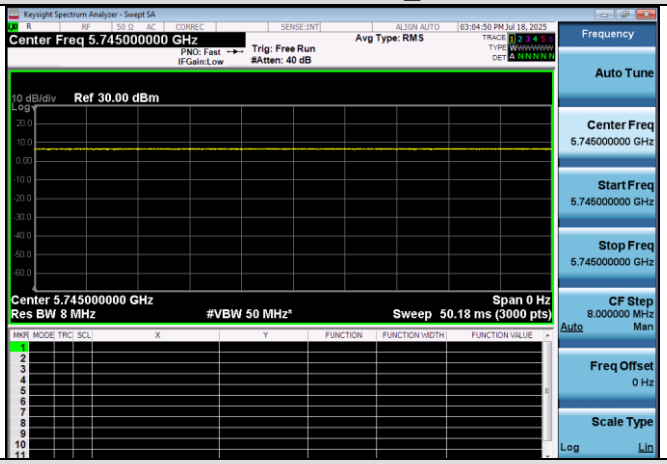
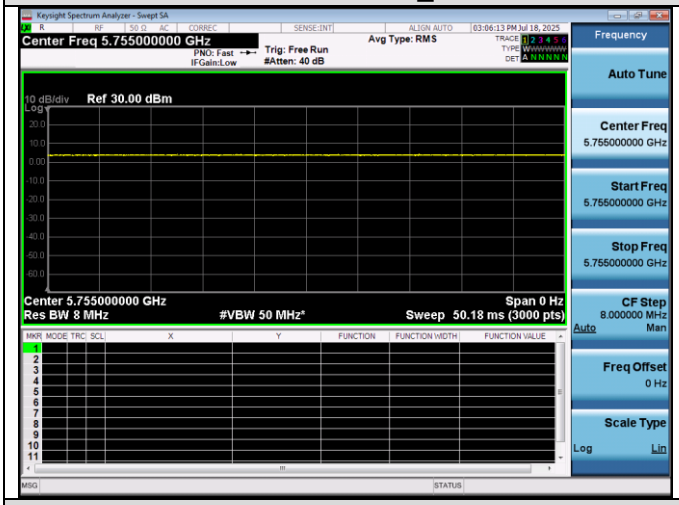
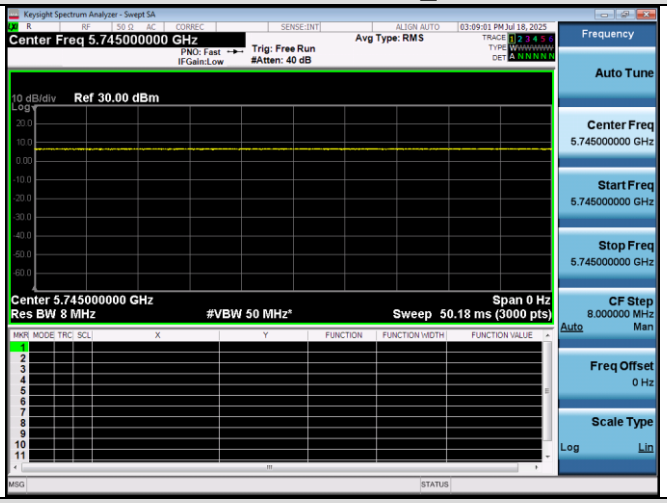
IEEE 802.11a_U-NII 3	IEEE 802.11n-HT20_U-NII 3
	
IEEE 802.11n-HT40_U-NII 3	**IEEE 802.11ac-VHT20_U-NII 3**
	
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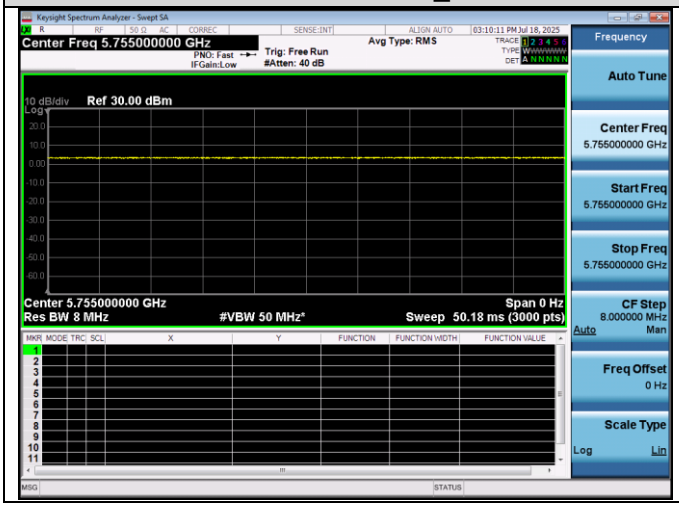	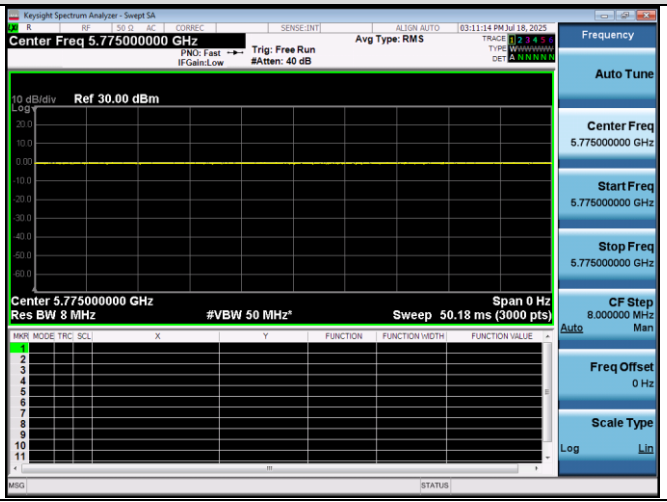

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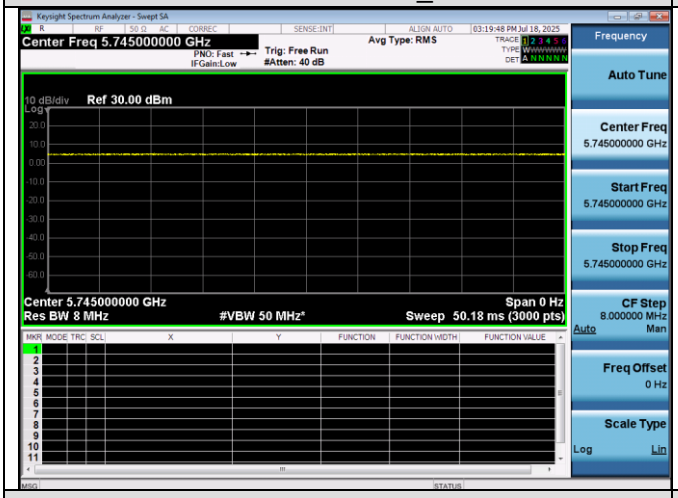
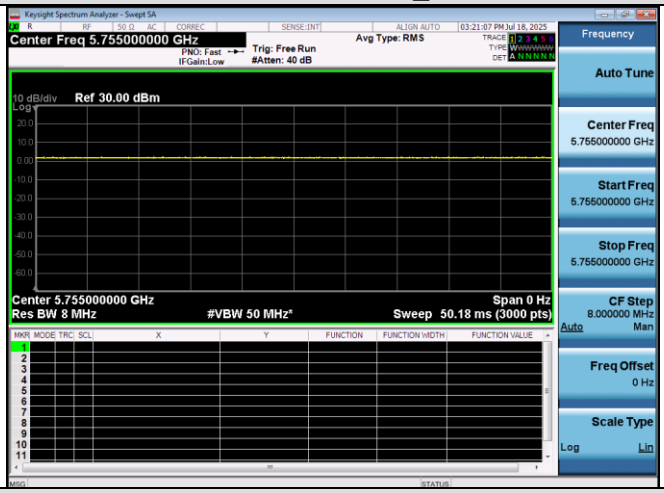
IEEE 802.11ax-HE20_U-NII 3	IEEE 802.11ax-HE40_U-NII 3
	
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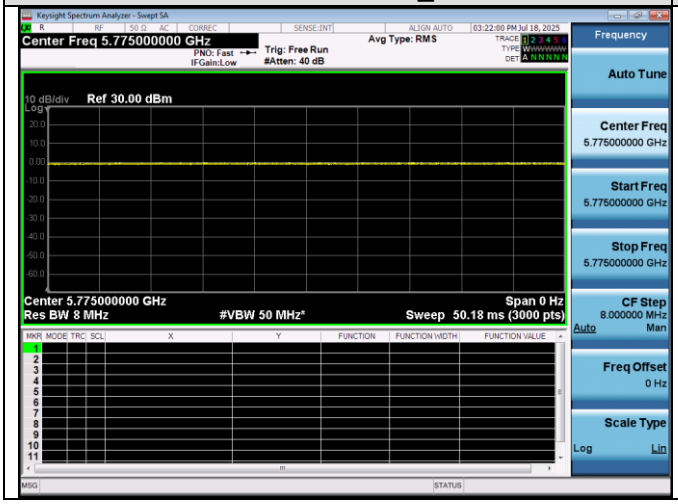	N/A

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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 Watt (30 dBm)

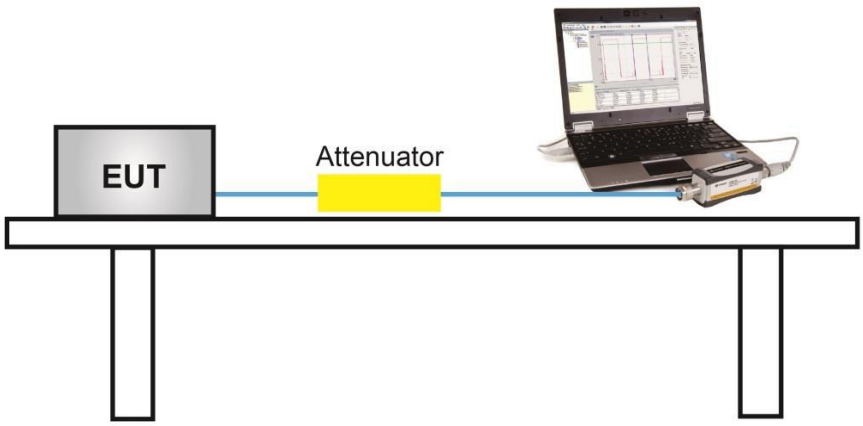
Note: Where B is the 26dB emission bandwidth in MHz.

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)	Pass or Fail
802.11a	5180	12.83	23.98	Pass
	5200	12.46	23.98	Pass
	5240	12.18	23.98	Pass
802.11n20	5180	11.69	23.98	Pass
	5200	11.61	23.98	Pass
	5240	11.36	23.98	Pass
802.11n40	5190	11.38	23.98	Pass
	5230	10.92	23.98	Pass
802.11ac20	5180	11.60	23.98	Pass
	5200	11.53	23.98	Pass
	5240	11.38	23.98	Pass
802.11ac40	5190	11.36	23.98	Pass
	5230	11.17	23.98	Pass
802.11ac80	5210	10.48	23.98	Pass
802.11ax20	5180	10.45	23.98	Pass
	5200	10.21	23.98	Pass
	5240	10.00	23.98	Pass
802.11ax40	5190	9.83	23.98	Pass
	5230	9.65	23.98	Pass
802.11ax80	5210	9.85	23.98	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)	Pass or Fail
802.11a	5745	10.67	30	Pass
	5785	10.73	30	Pass
	5825	11.32	30	Pass
802.11n20	5745	9.73	30	Pass
	5785	10.09	30	Pass
	5825	10.66	30	Pass
802.11n40	5755	9.82	30	Pass
	5795	9.73	30	Pass
802.11ac20	5745	9.72	30	Pass
	5785	10.00	30	Pass
	5825	10.63	30	Pass
802.11ac40	5755	9.44	30	Pass
	5795	9.79	30	Pass
802.11ac80	5775	8.67	30	Pass
802.11ax20	5745	8.16	30	Pass
	5785	8.31	30	Pass
	5825	9.00	30	Pass
802.11ax40	5755	7.73	30	Pass
	5795	8.14	30	Pass
802.11ax80	5775	8.20	30	Pass

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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 ≥3*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:**

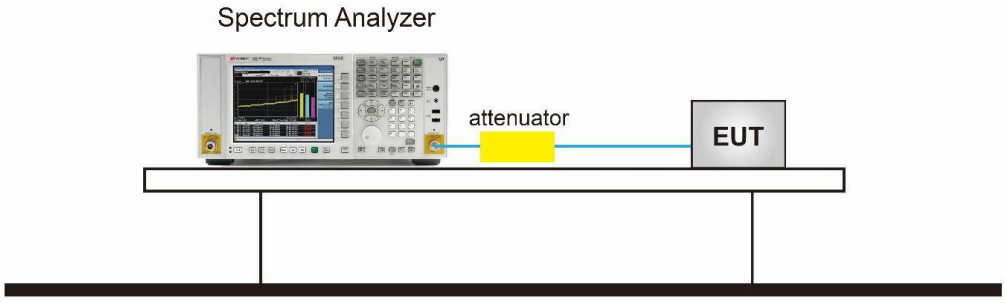
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
   The nominal IF filter bandwidth (3 dB RBW) shall 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	16.682	23.383	N/A	Pass
	5200	16.703	24.495	N/A	Pass
	5240	16.661	21.695	N/A	Pass
802.11n20	5180	17.908	23.054	N/A	Pass
	5200	17.881	21.988	N/A	Pass
	5240	17.830	22.480	N/A	Pass
802.11n40	5190	36.249	41.184	N/A	Pass
	5230	36.105	40.817	N/A	Pass
802.11ac20	5180	17.850	23.117	N/A	Pass
	5200	17.865	25.639	N/A	Pass
	5240	17.869	23.237	N/A	Pass
802.11ac40	5190	36.195	40.423	N/A	Pass
	5230	36.136	40.054	N/A	Pass
802.11ac80	5210	75.498	80.002	N/A	Pass
802.11ax20	5180	19.060	22.054	N/A	Pass
	5200	19.039	22.470	N/A	Pass
	5240	19.009	22.725	N/A	Pass
802.11ax40	5190	37.657	39.319	N/A	Pass
	5230	37.649	39.165	N/A	Pass
802.11ax80	5210	77.147	79.789	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	16.722	16.598	0.5	Pass
	5785	16.655	16.554	0.5	Pass
	5825	16.628	16.545	0.5	Pass
802.11n20	5745	17.884	17.838	0.5	Pass
	5785	17.872	17.818	0.5	Pass
	5825	17.867	17.803	0.5	Pass
802.11n40	5755	36.135	36.411	0.5	Pass
	5795	36.121	36.450	0.5	Pass
802.11ac20	5745	17.921	17.815	0.5	Pass
	5785	17.891	17.804	0.5	Pass
	5825	17.855	17.851	0.5	Pass
802.11ac40	5755	36.200	36.461	0.5	Pass
	5795	36.121	36.432	0.5	Pass
802.11ac80	5775	75.468	76.434	0.5	Pass
802.11ax20	5180	19.024	19.197	0.5	Pass
	5200	19.051	19.104	0.5	Pass
	5240	19.066	19.228	0.5	Pass
802.11ax40	5190	37.731	37.976	0.5	Pass
	5230	37.582	37.511	0.5	Pass
802.11ax80	5210	76.997	78.007	0.5	Pass

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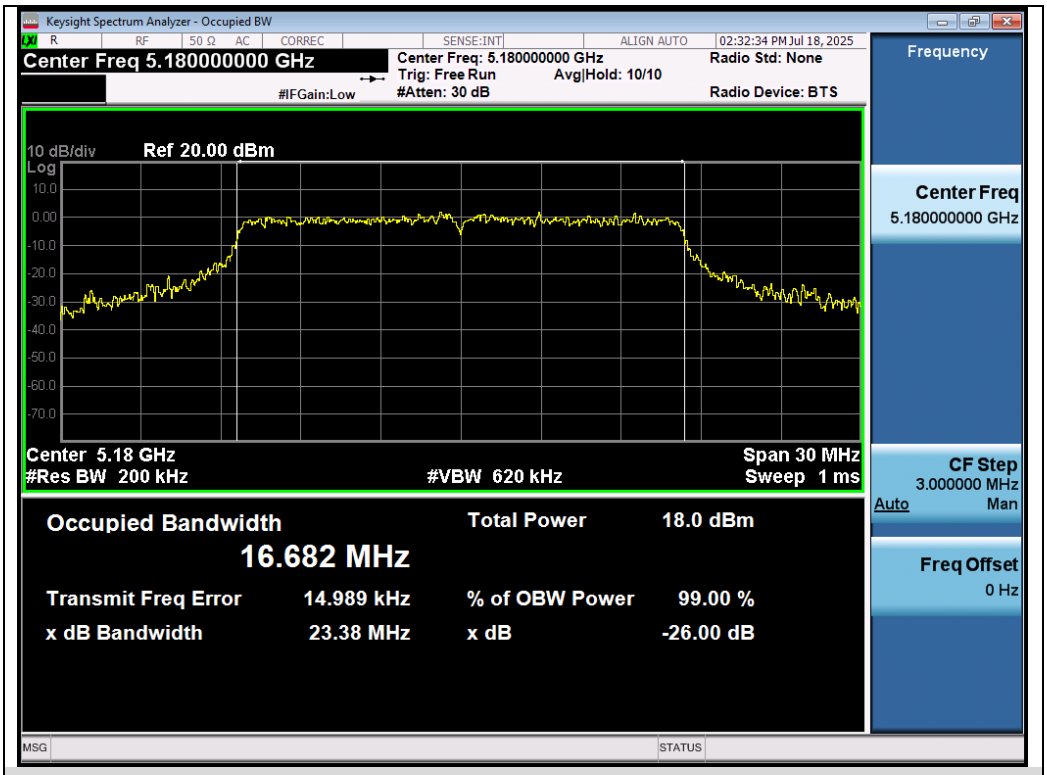
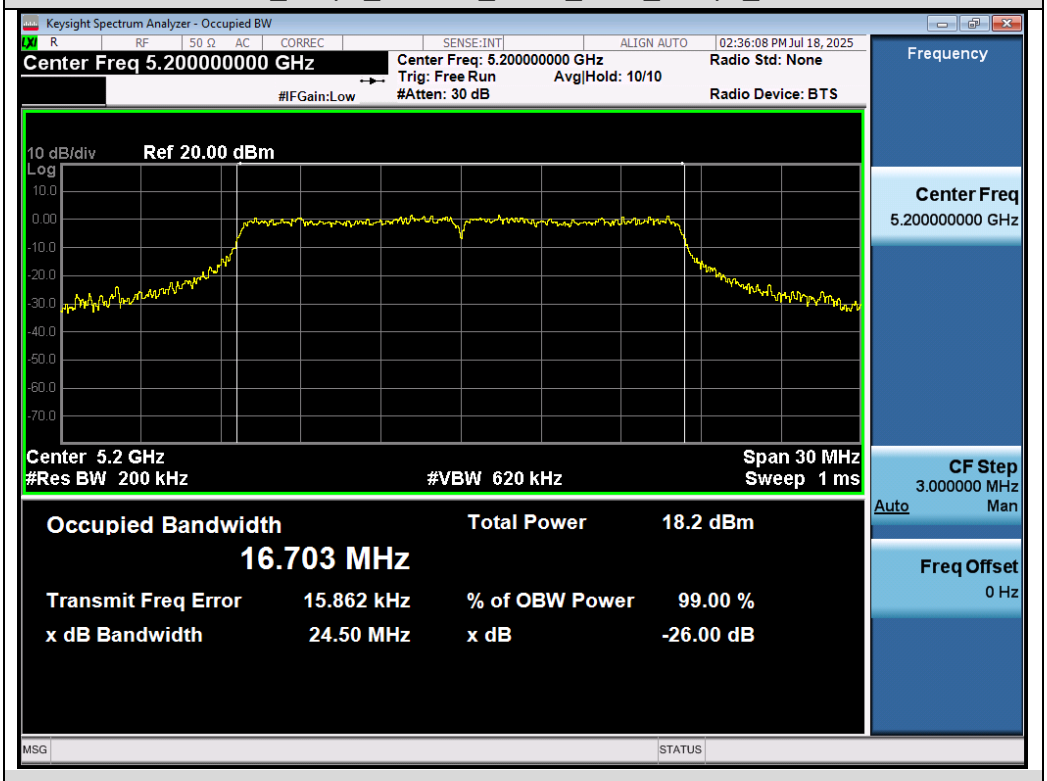
Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_OBW



Test_Graph_802.11a_ANT1_5200_6Mbps_OBW

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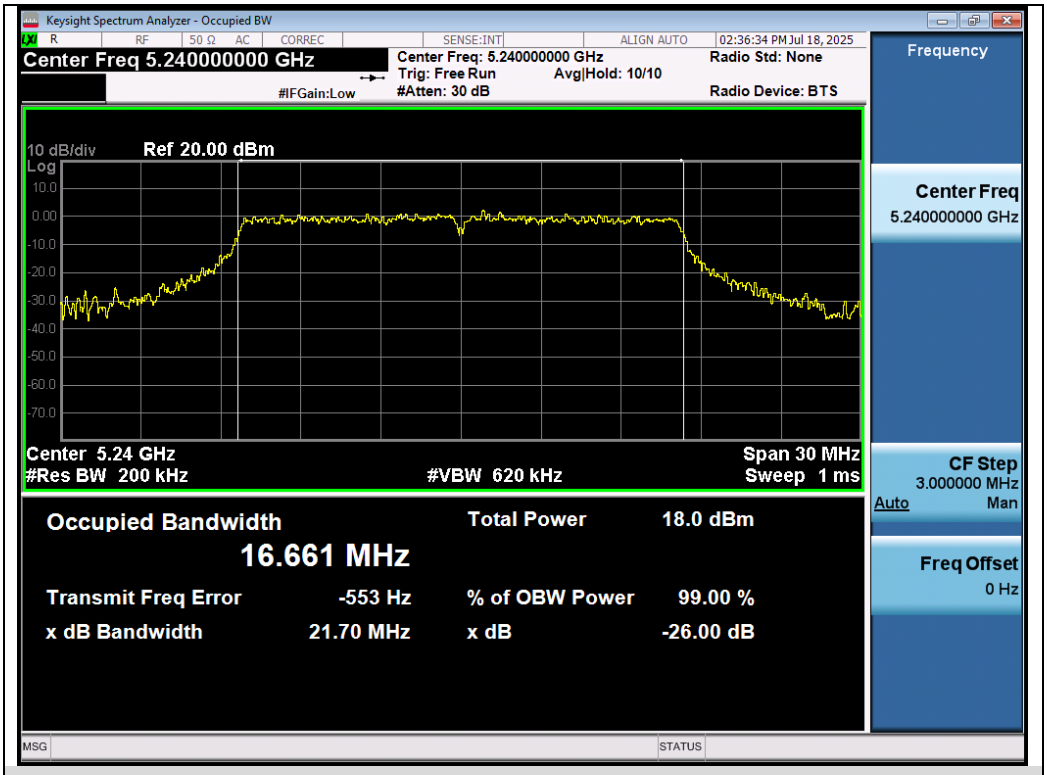

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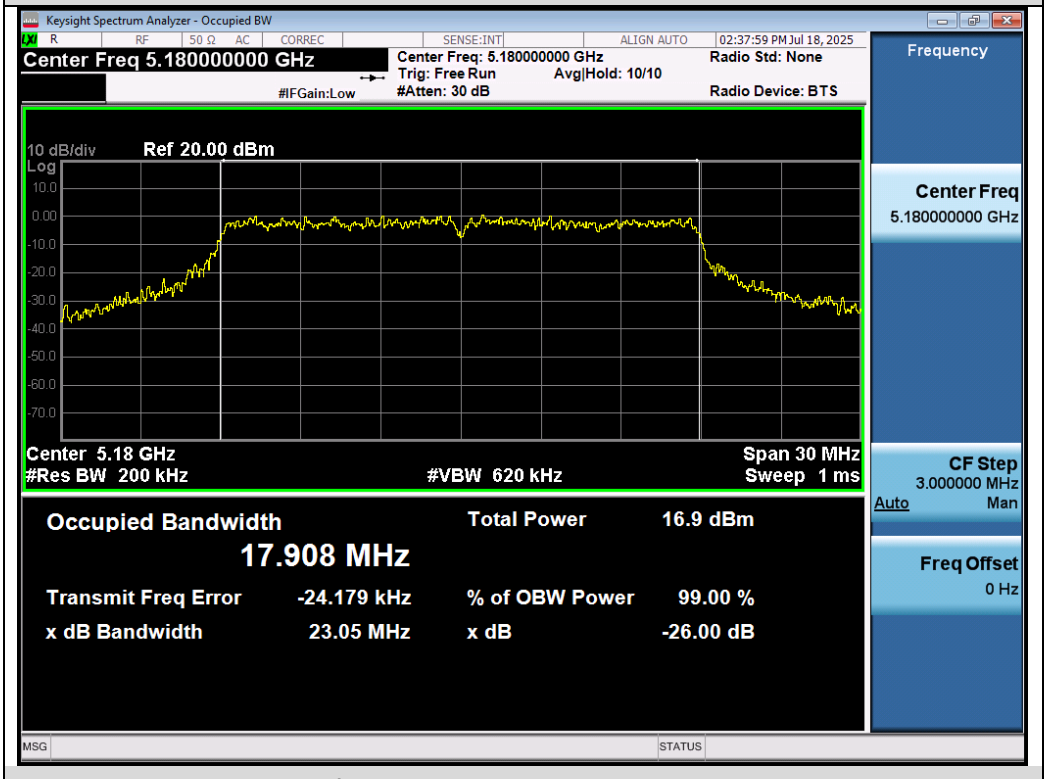

Test_Graph_802.11n20_ANT1_5180_MCS0_OBW

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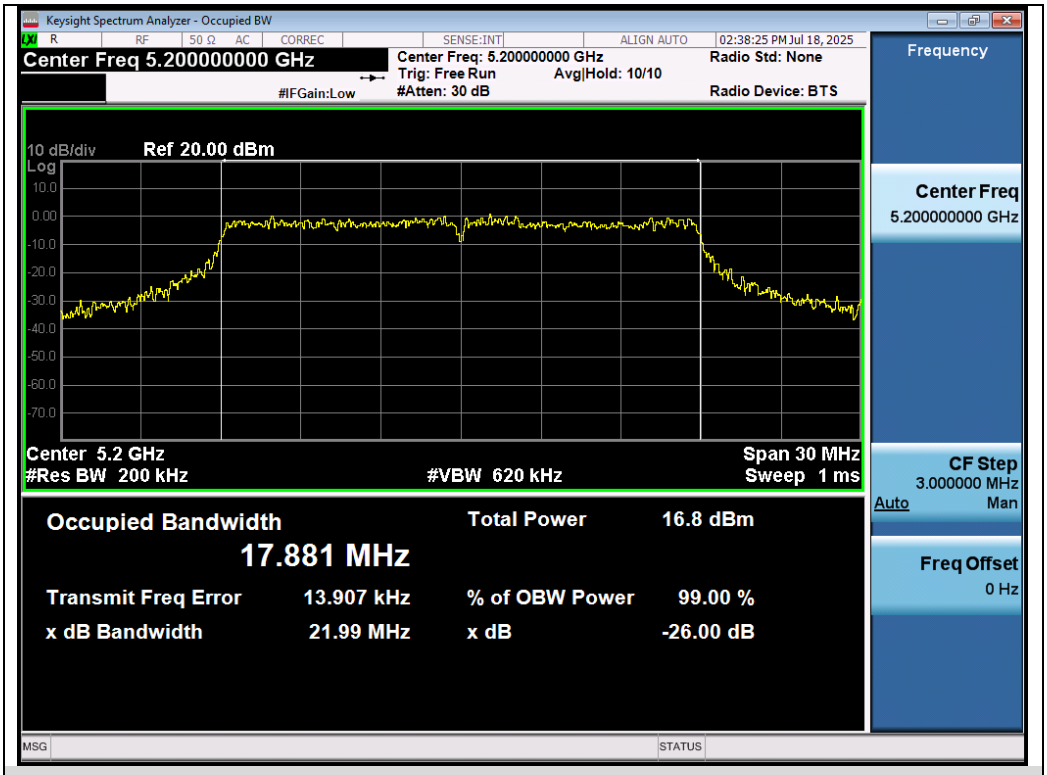

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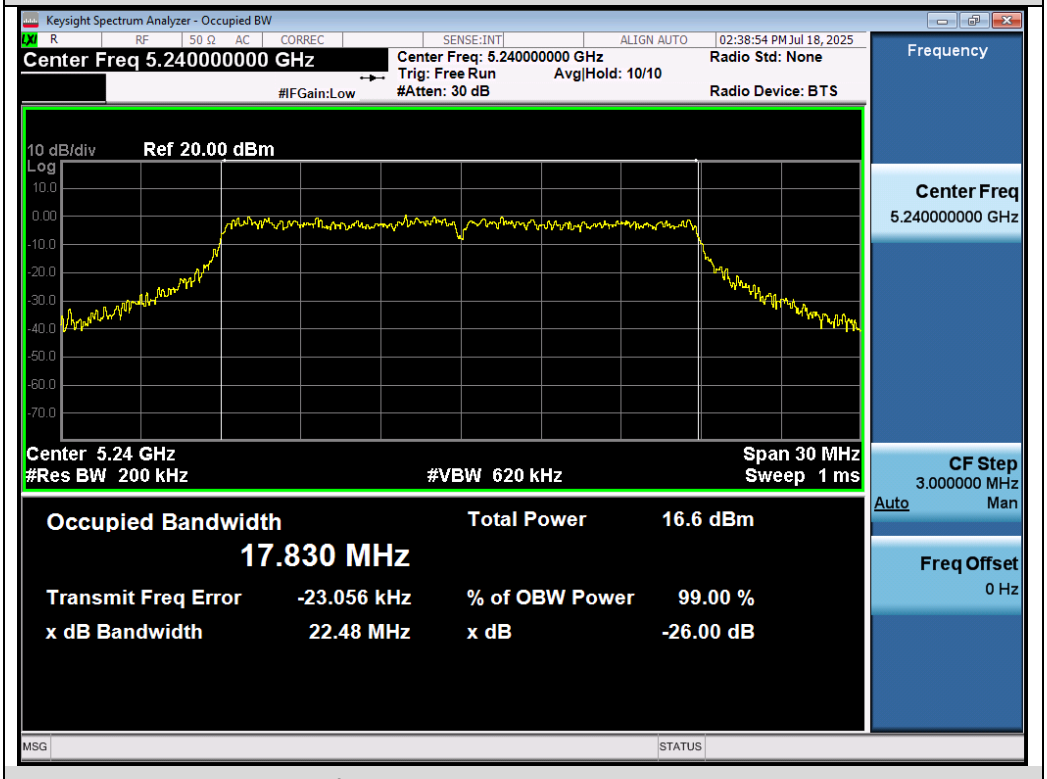

Test_Graph_802.11n20_ANT1_5240_MCS0_OBW

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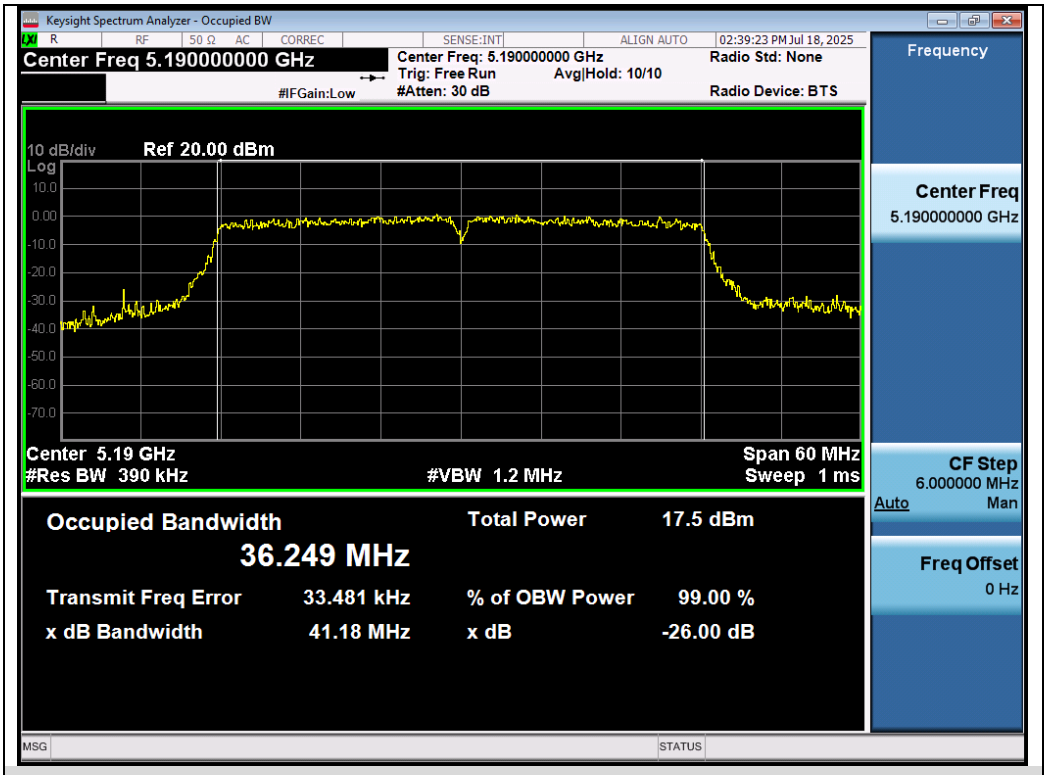
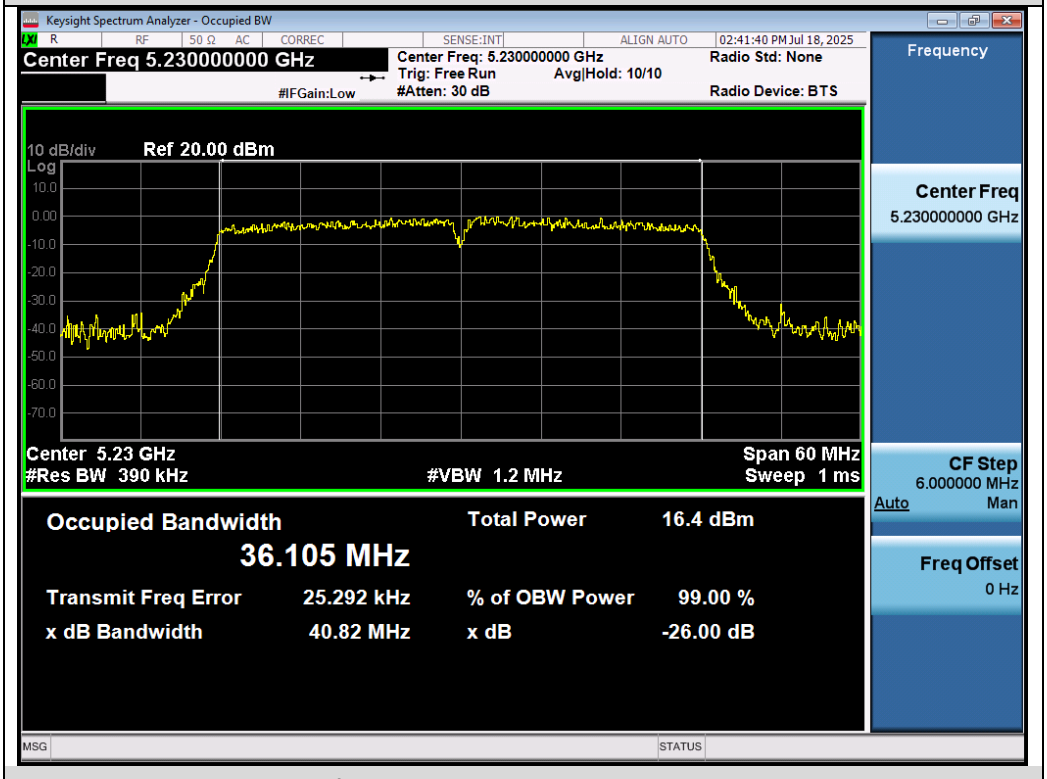


Test_Graph_802.11n40_ANT1_5190_MCS0_OBW



Test_Graph_802.11n40_ANT1_5230_MCS0_OBW

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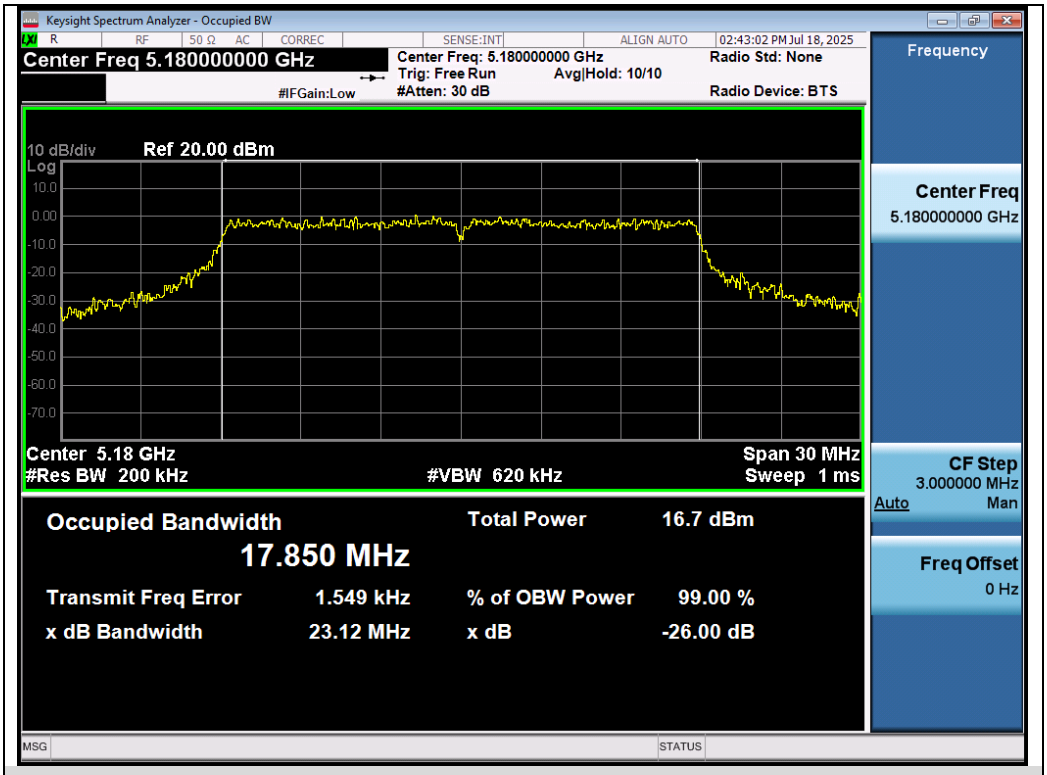

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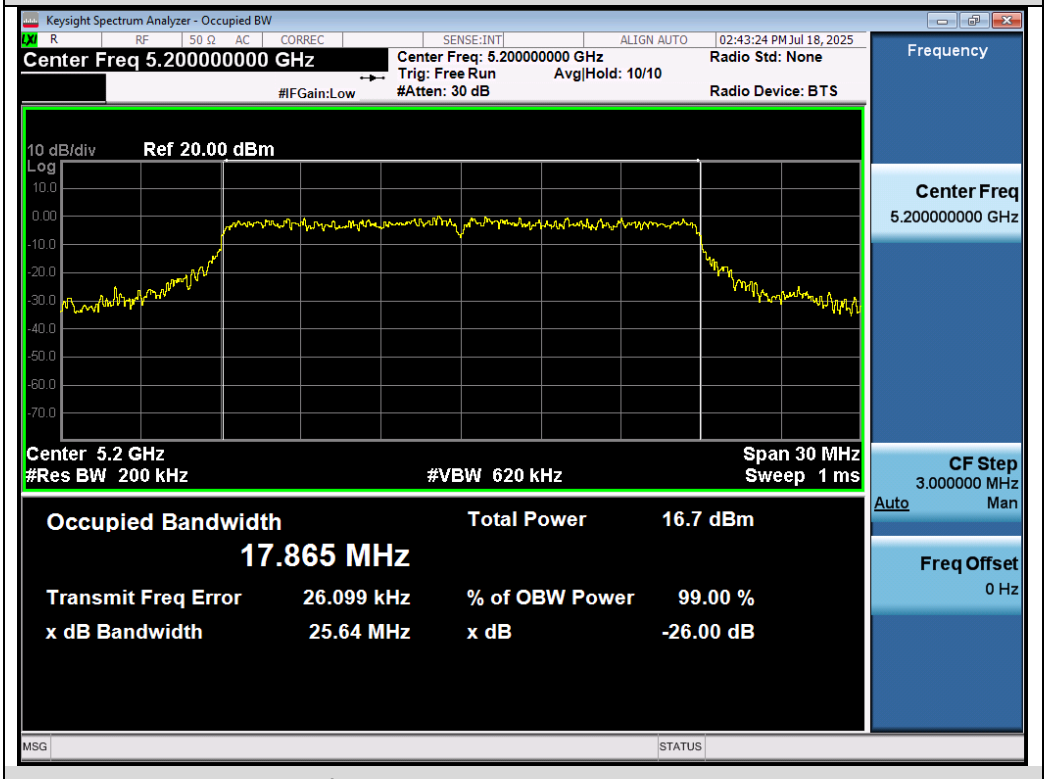

Test_Graph_802.11ac20_ANT1_5200_MCS0_OBW

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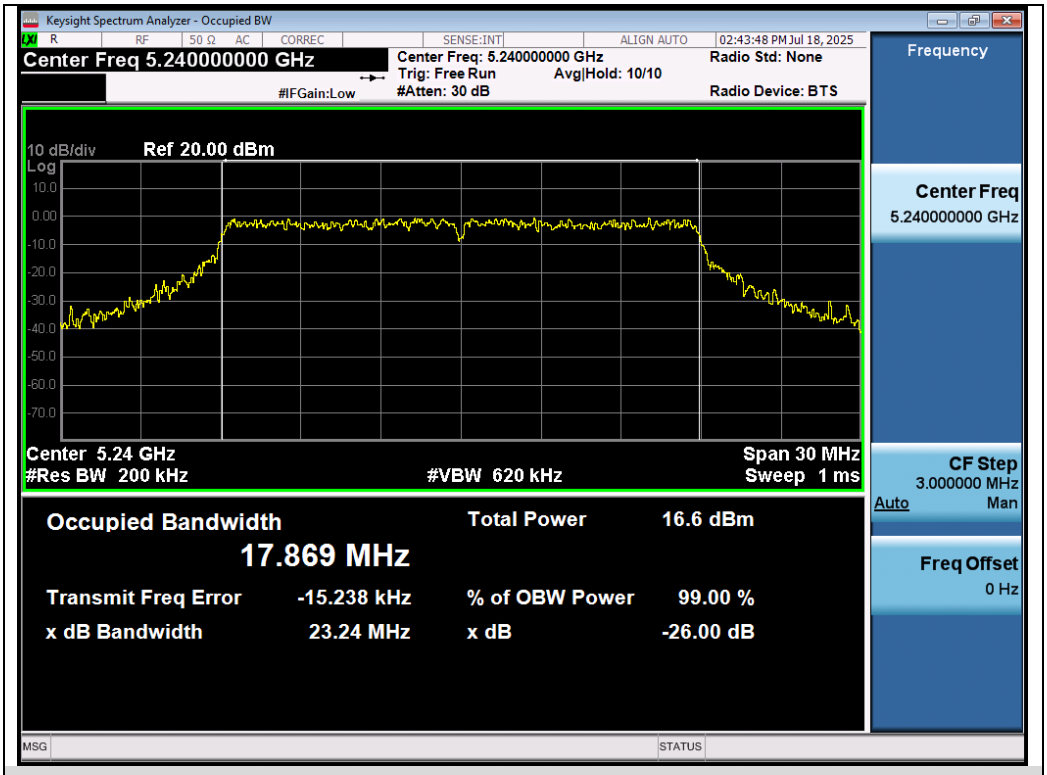

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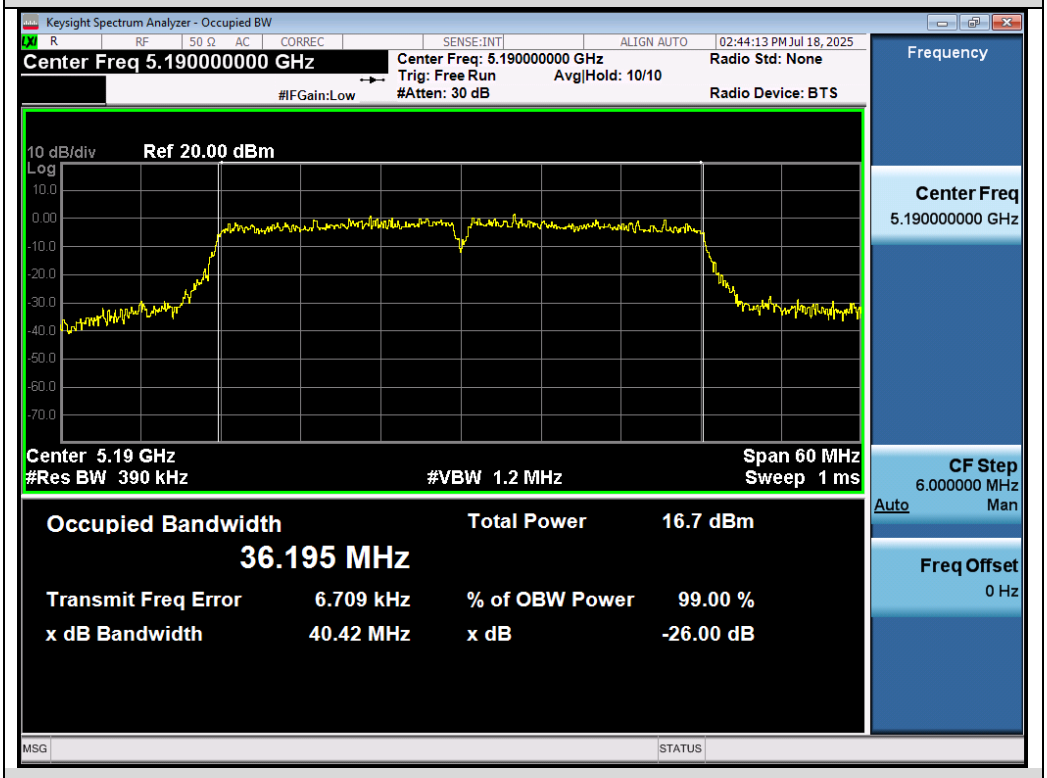

Test_Graph_802.11ac40_ANT1_5190_MCS0_OBW

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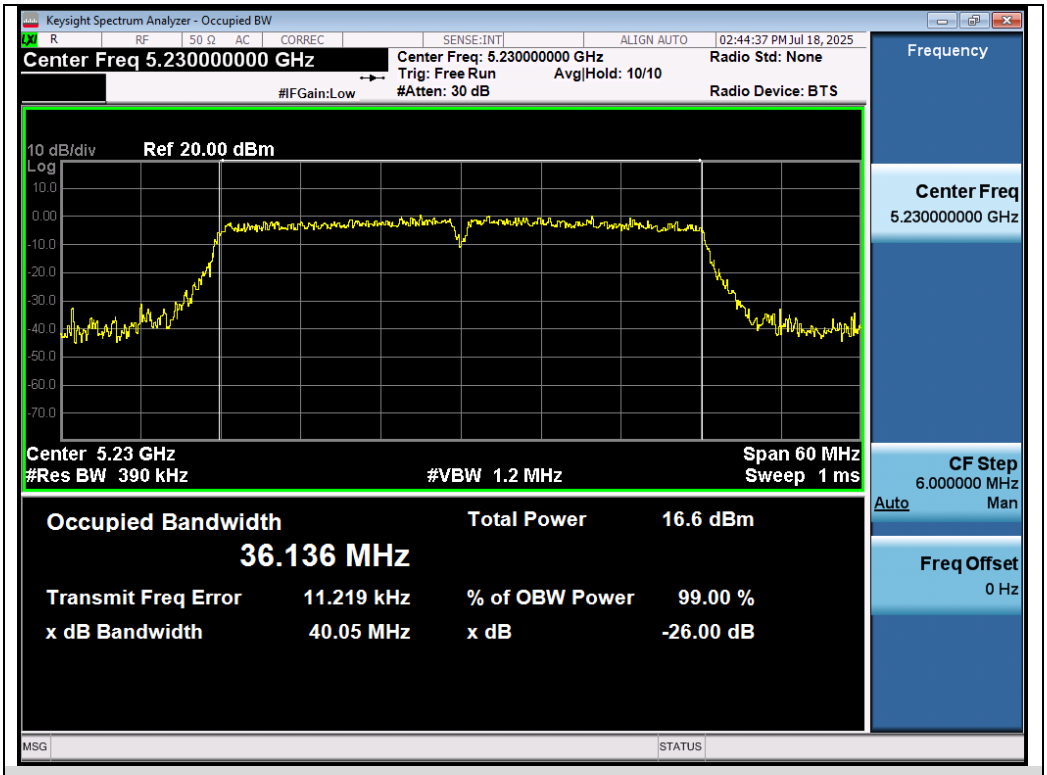

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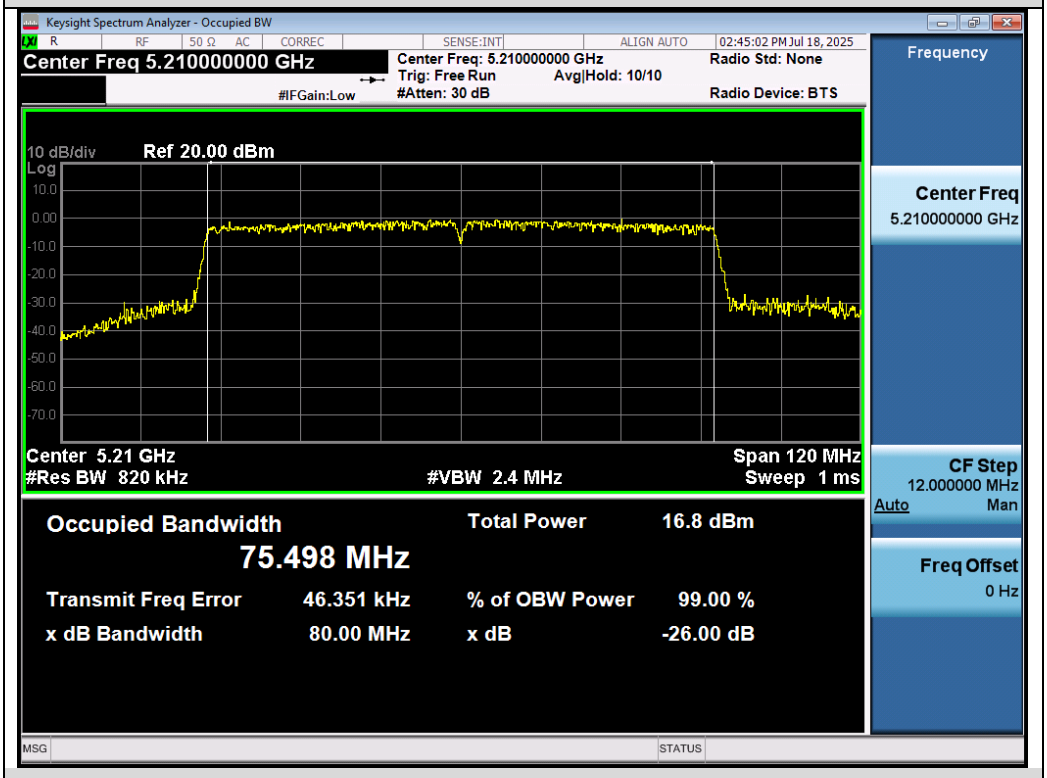

Test_Graph_802.11ac80_ANT1_5210_MCS0_OBW

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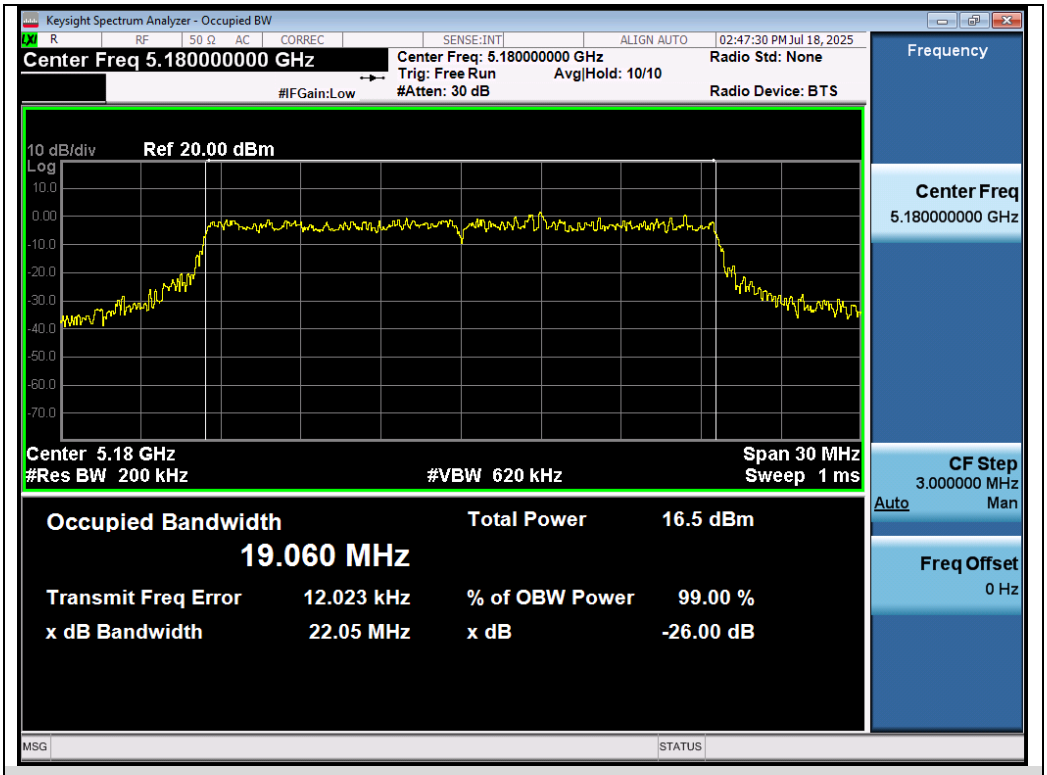

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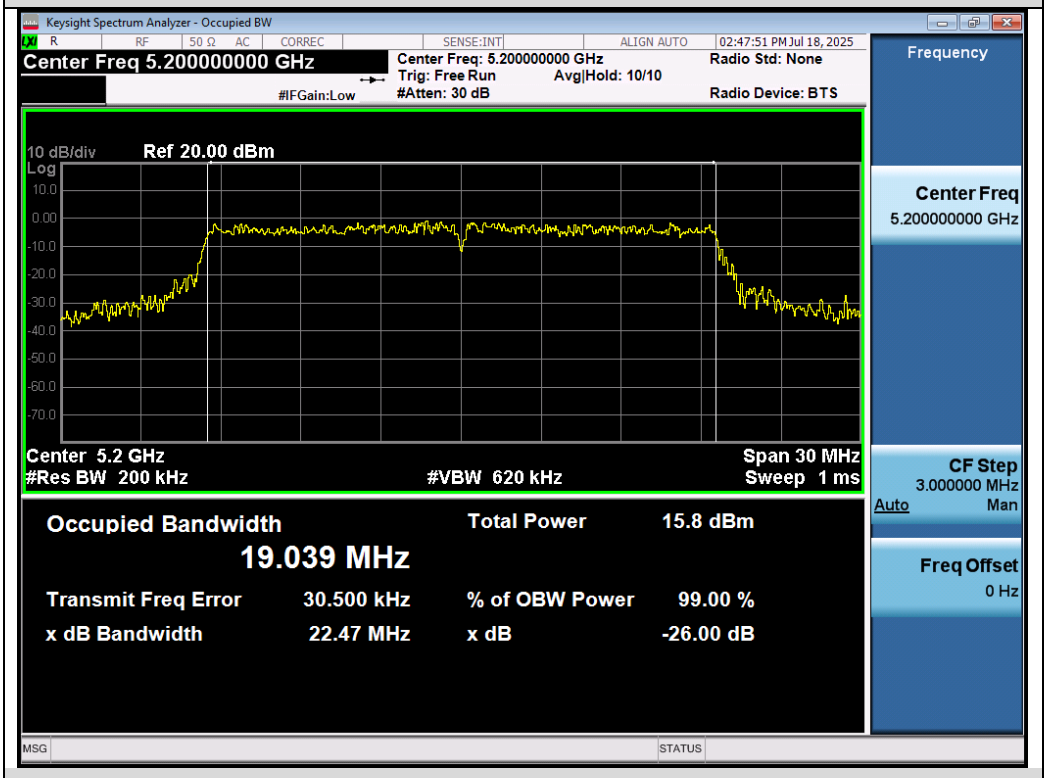

Test_Graph_802.11ax20_ANT1_5200_MCS0_OBW

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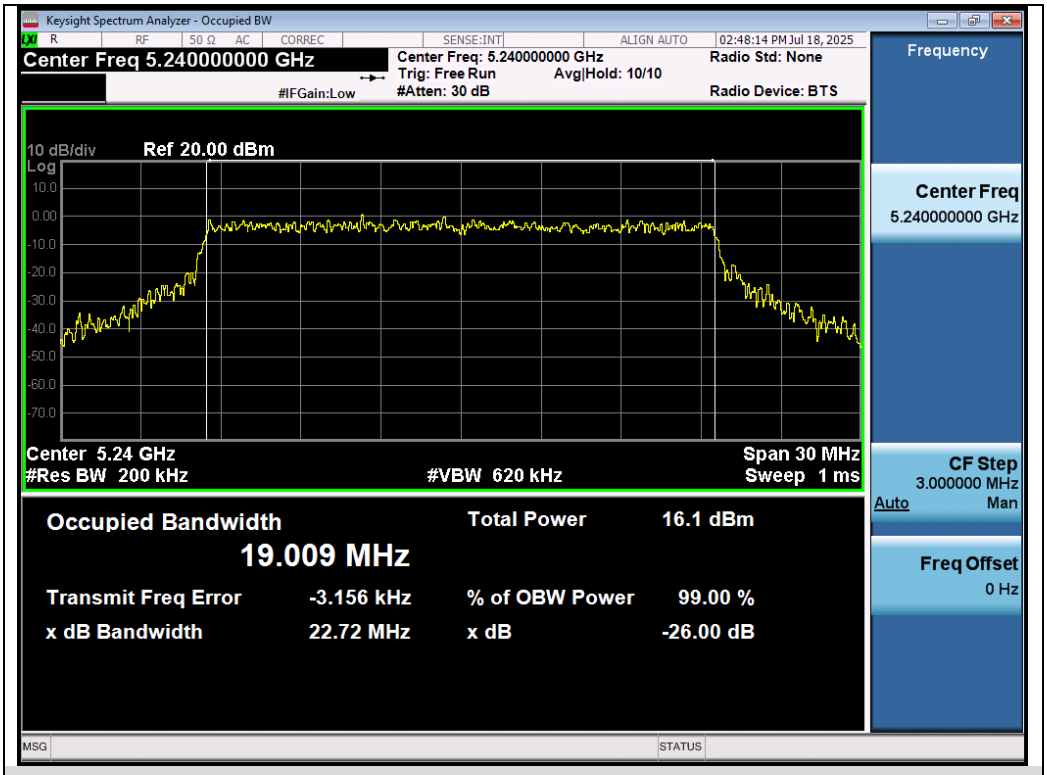
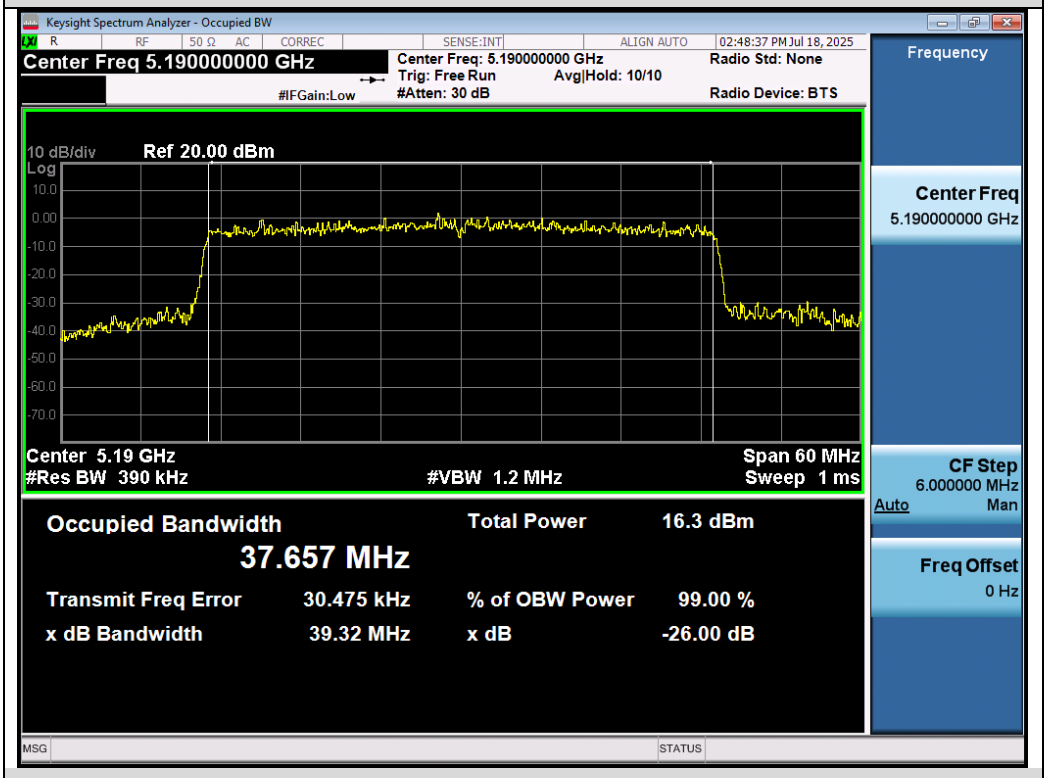


Test_Graph_802.11ax20_ANT1_5240_MCS0_OBW



Test_Graph_802.11ax40_ANT1_5190_MCS0_OBW

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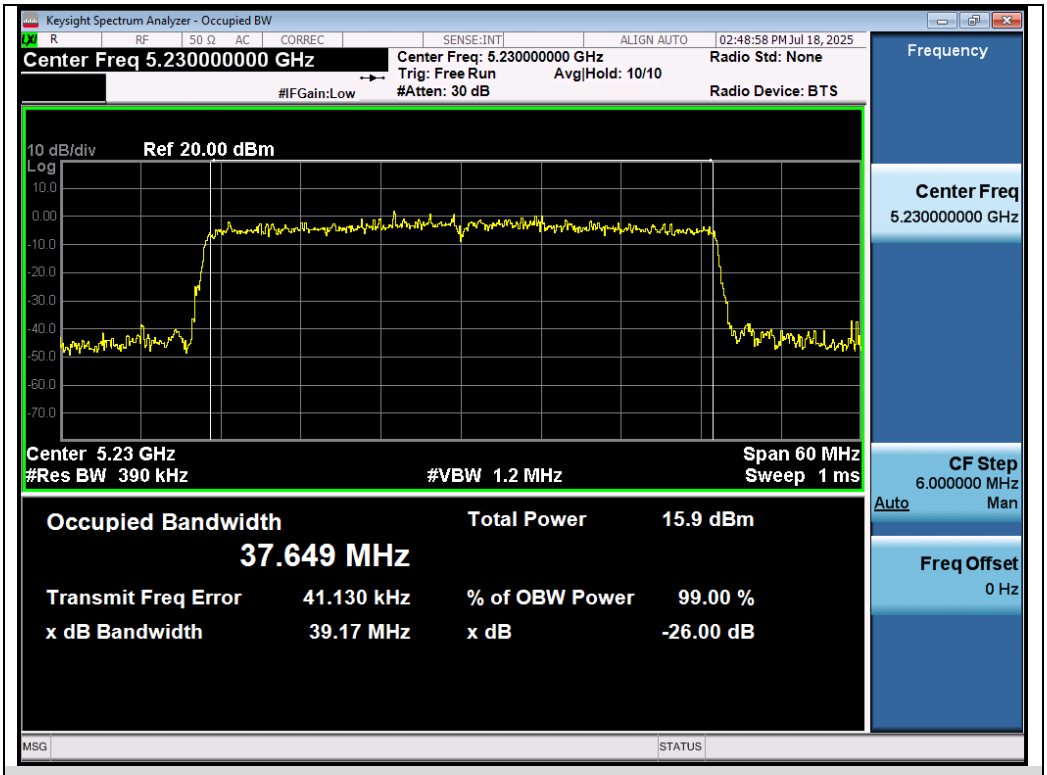

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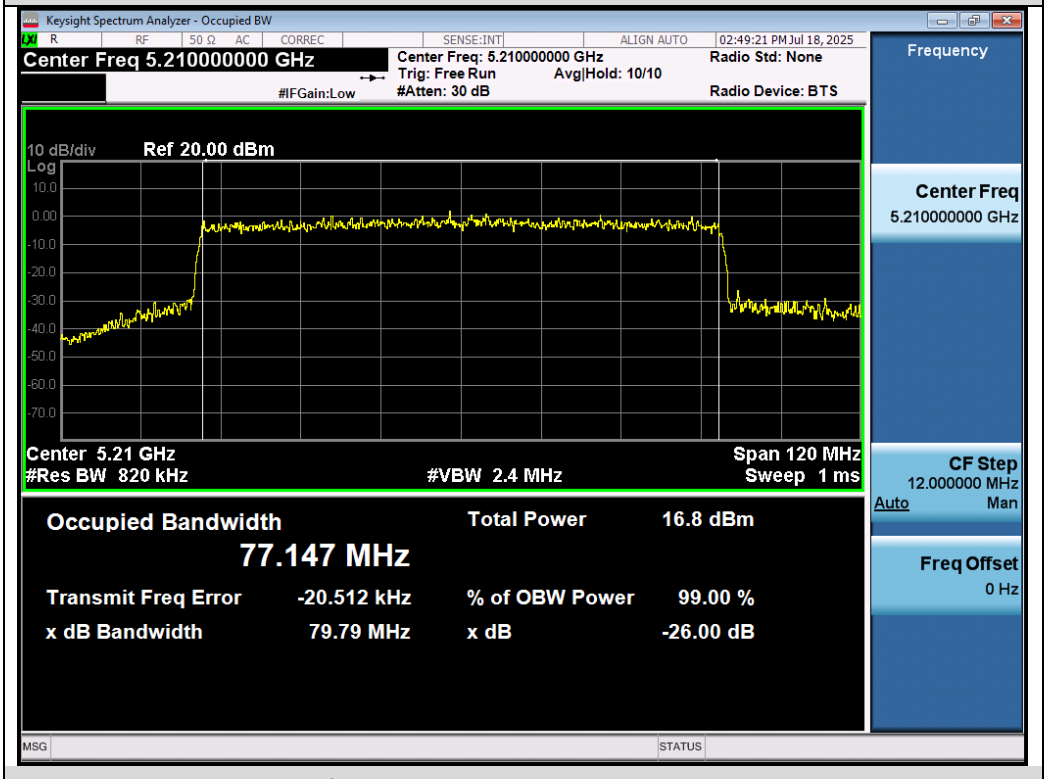

Test_Graph_802.11ax80_ANT1_5210_MCS0_OBW

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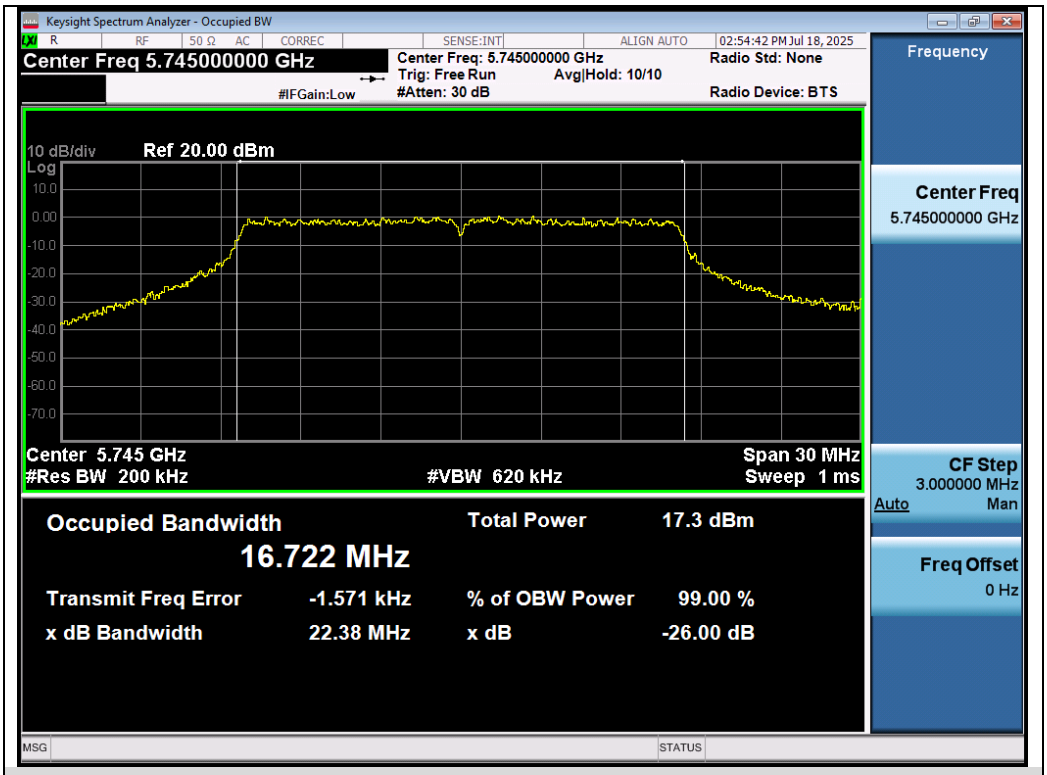
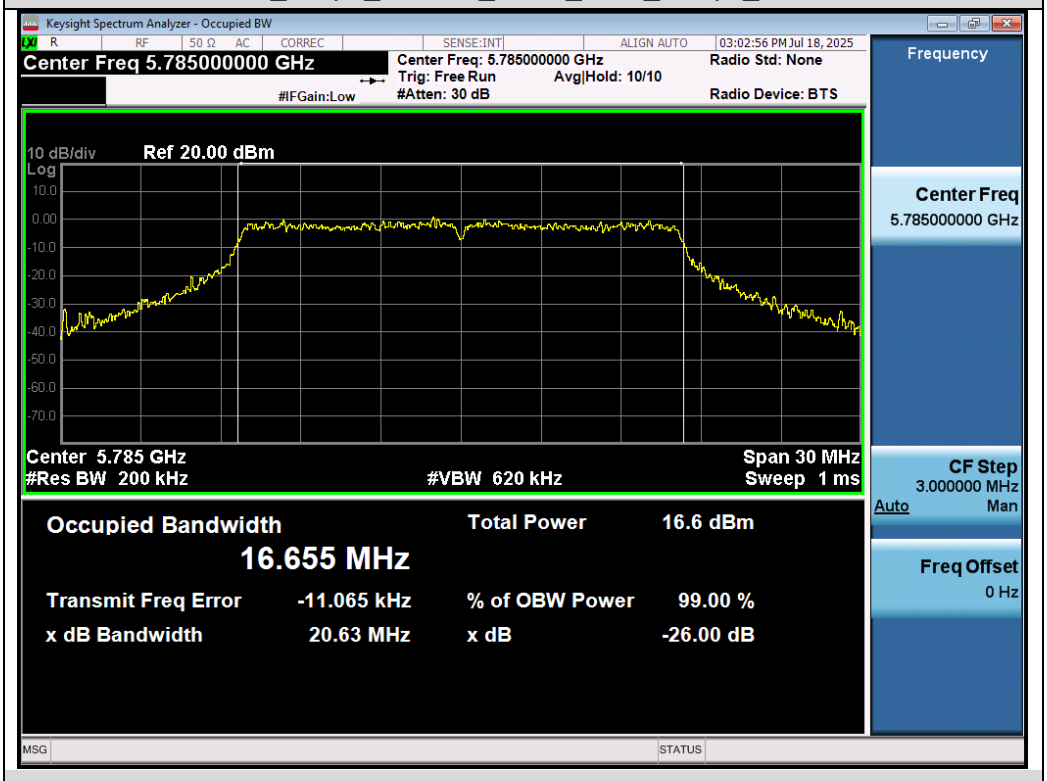
Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.745-5.825 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_OBW



Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

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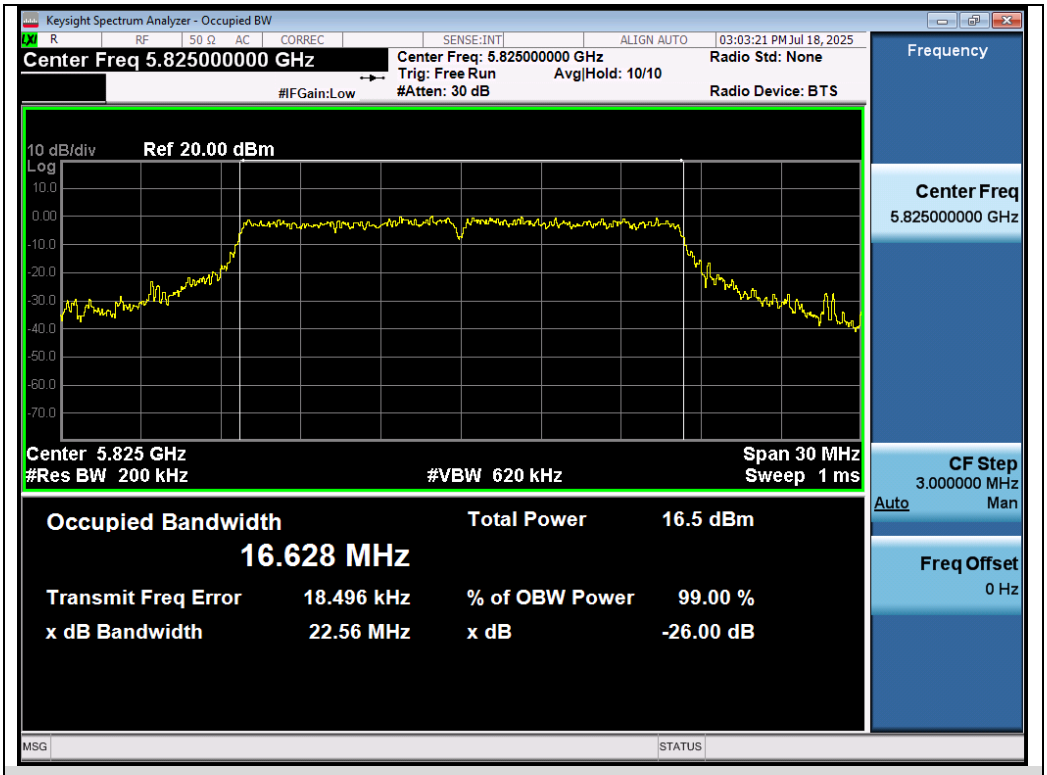

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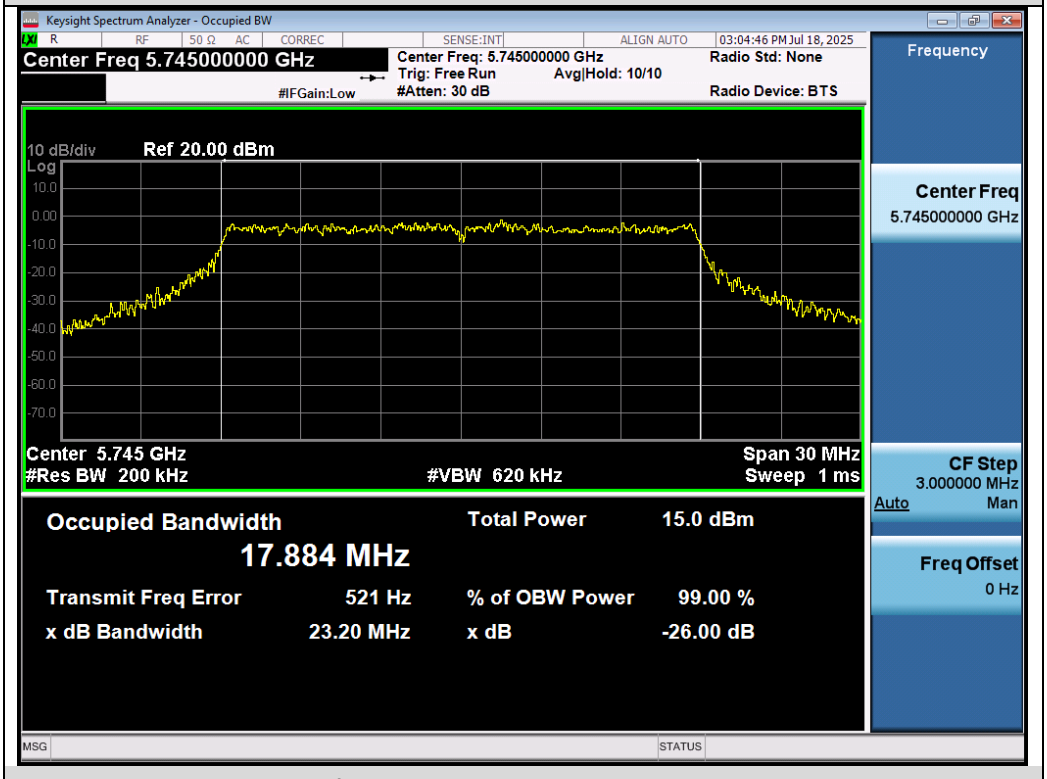

Test_Graph_802.11n20_ANT1_5745_MCS0_OBW

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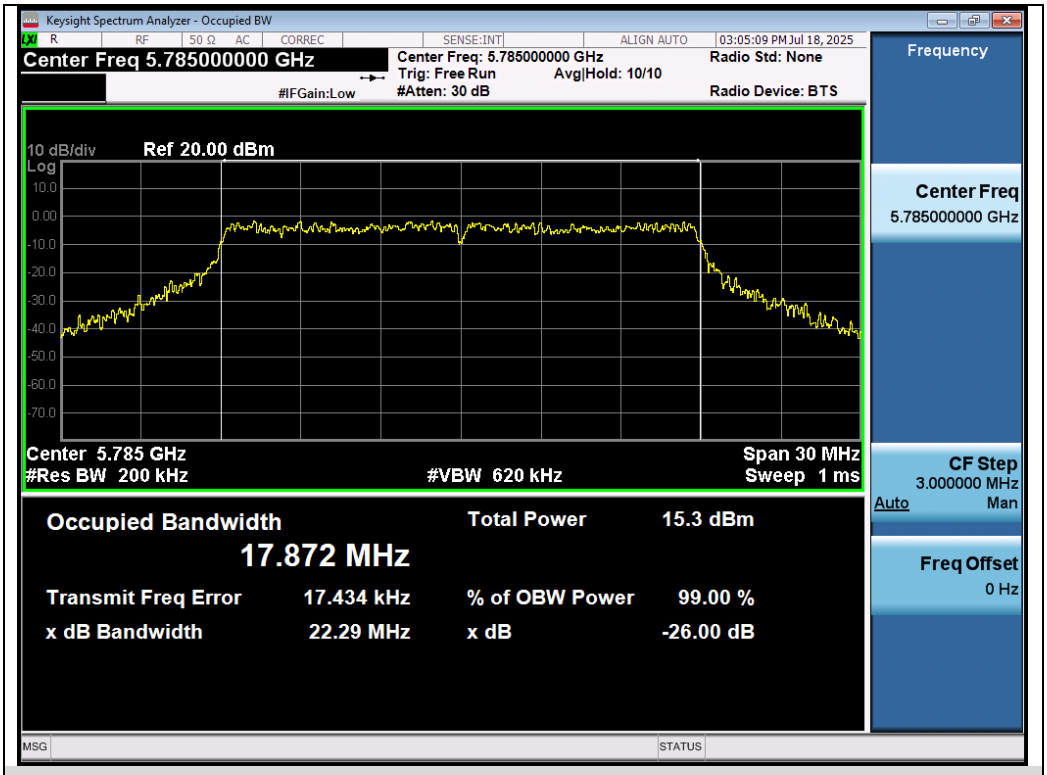

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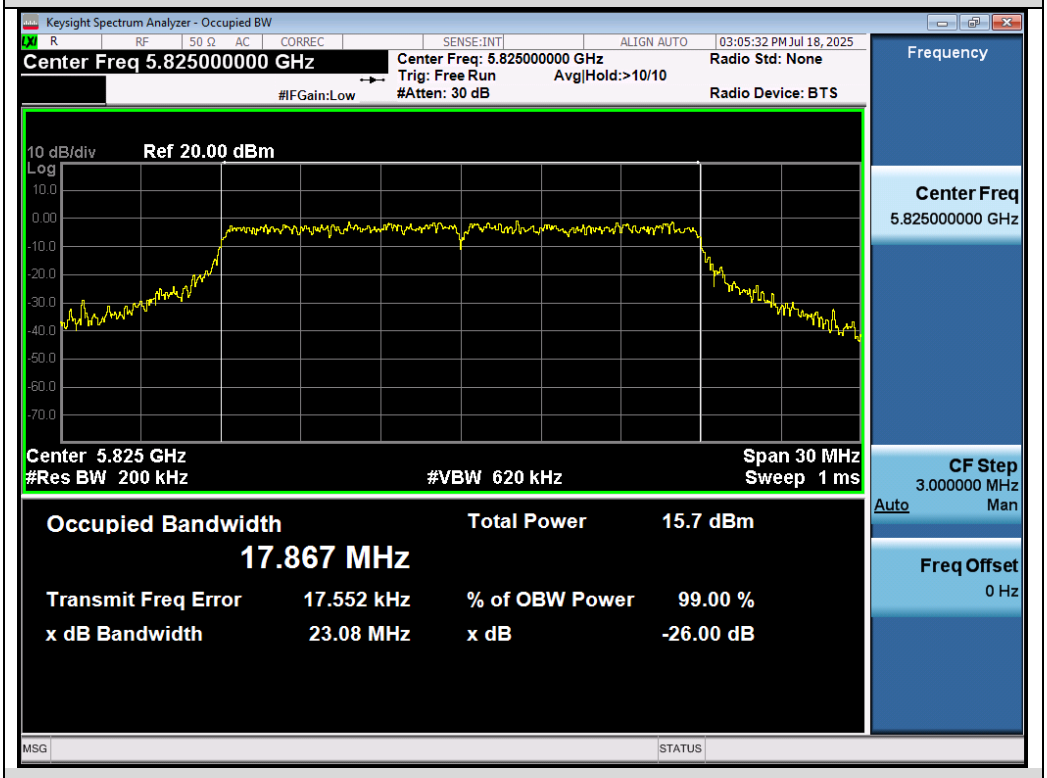

Test_Graph_802.11n20_ANT1_5825_MCS0_OBW

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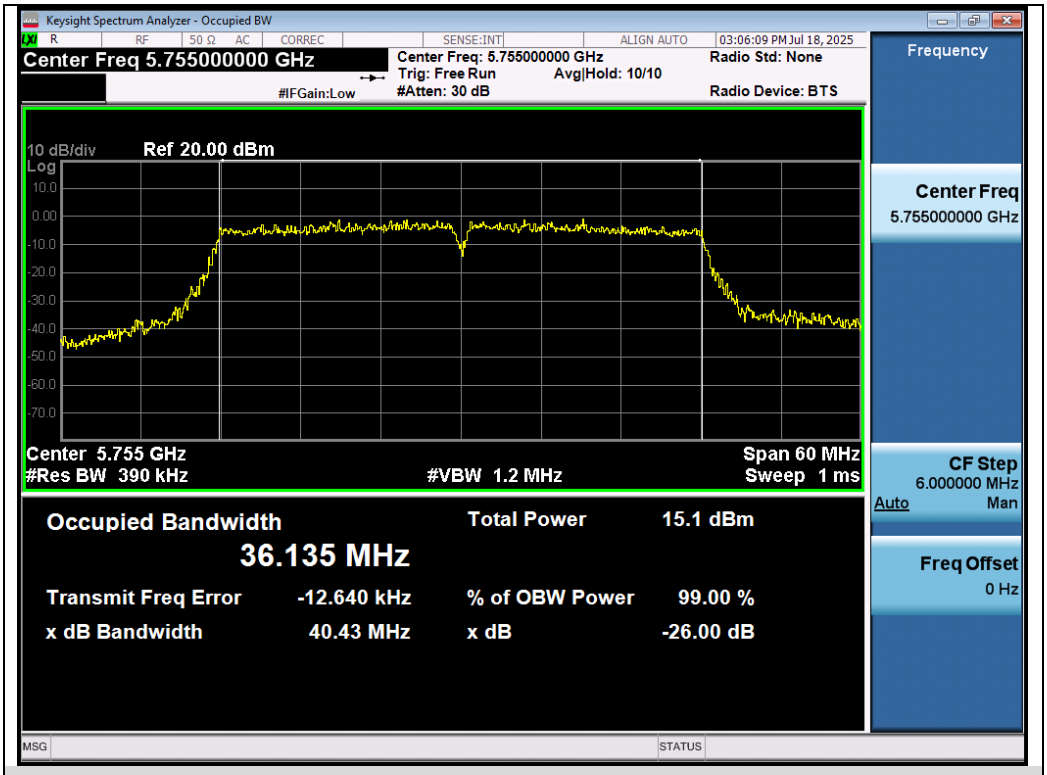

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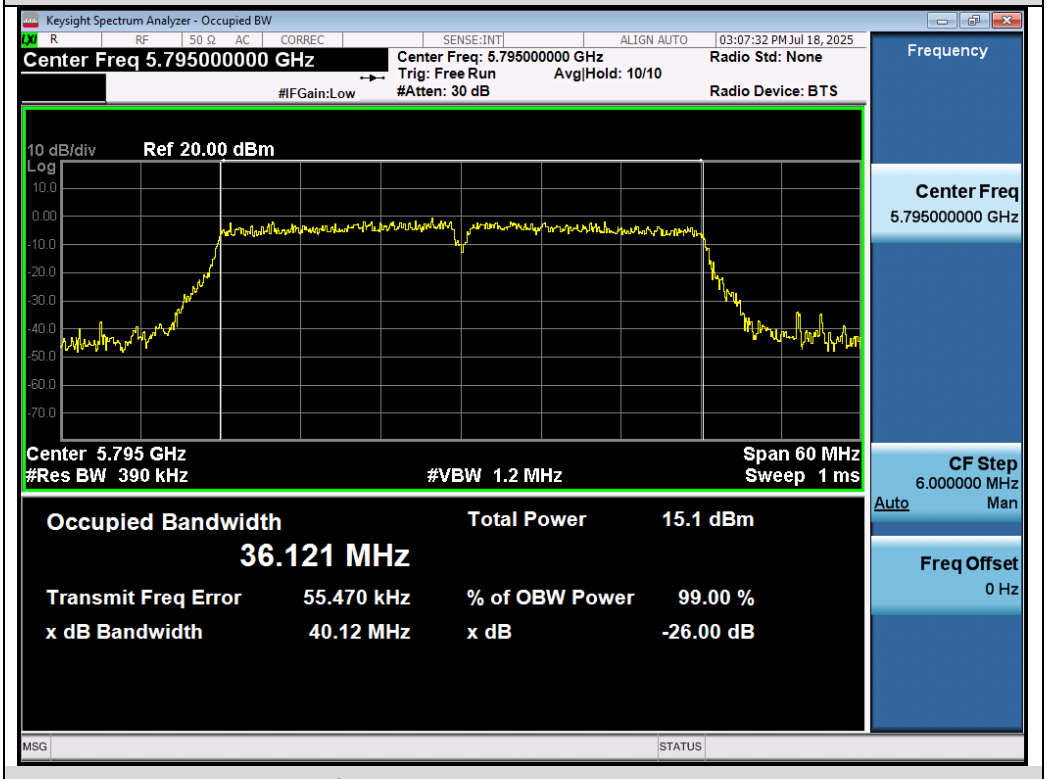

Test_Graph_802.11n40_ANT1_5795_MCS0_OBW

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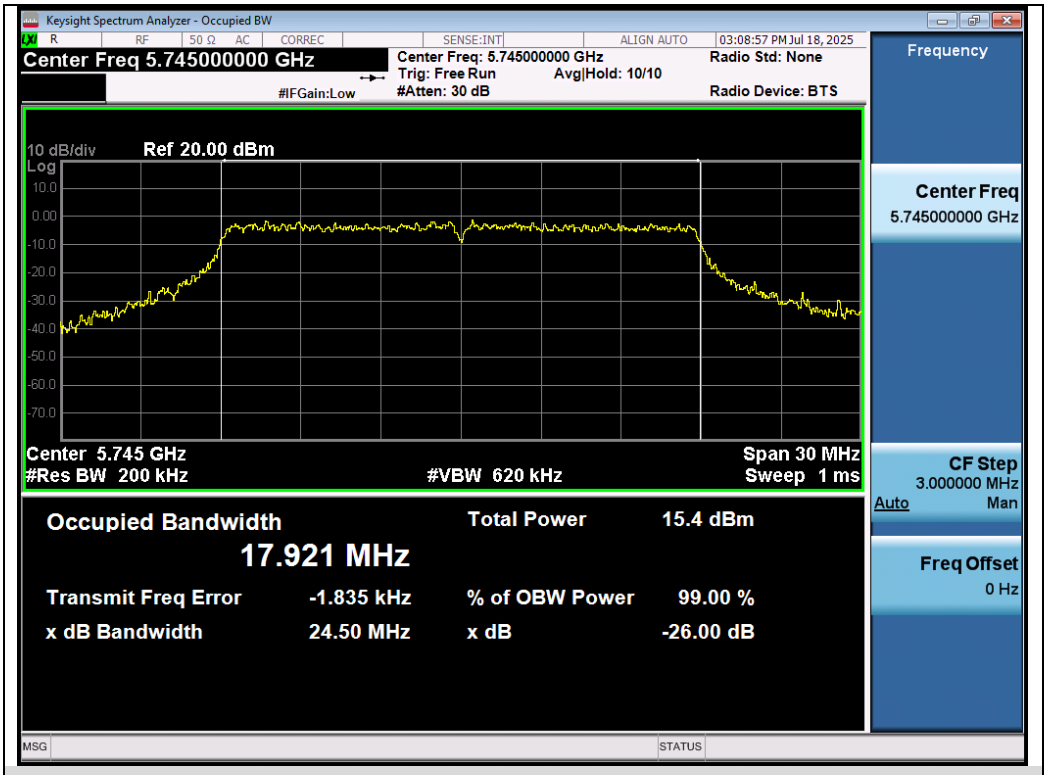

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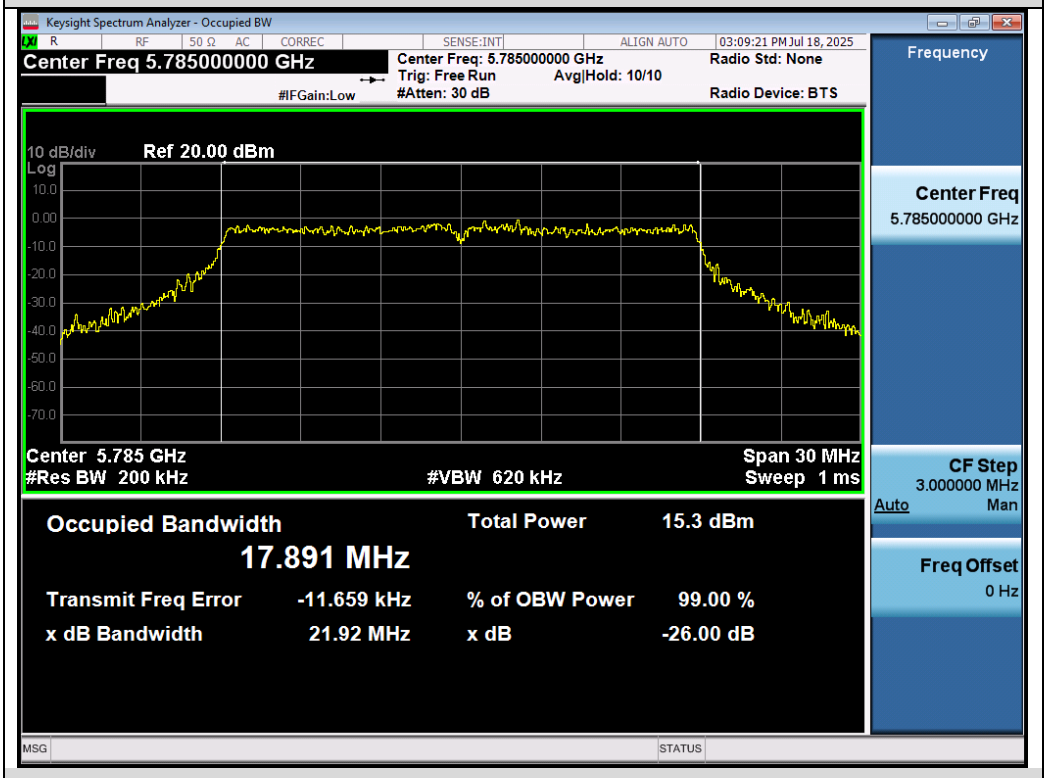

Test_Graph_802.11ac20_ANT1_5785_MCS0_OBW

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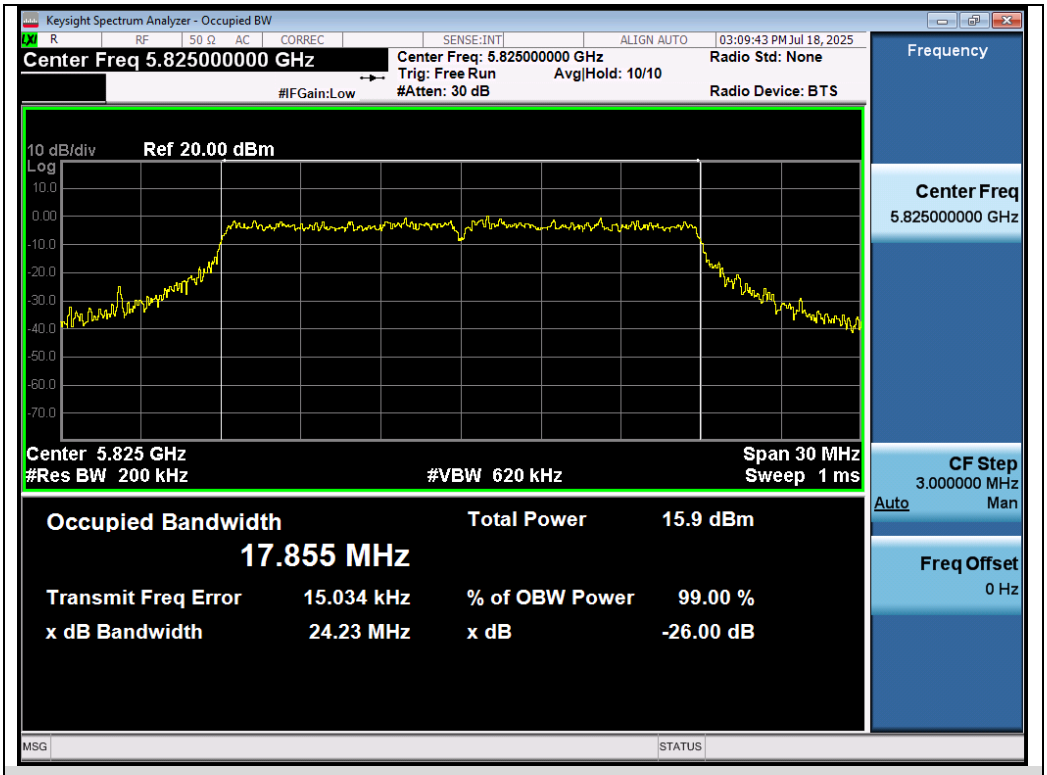

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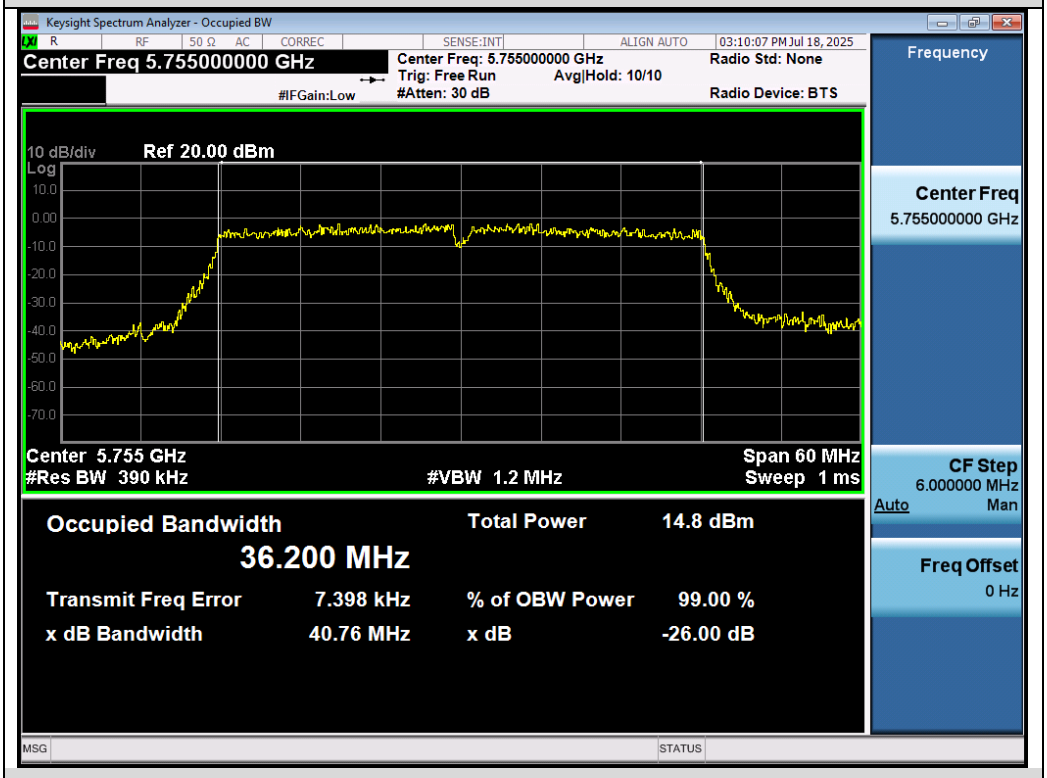

Test_Graph_802.11ac40_ANT1_5755_MCS0_OBW

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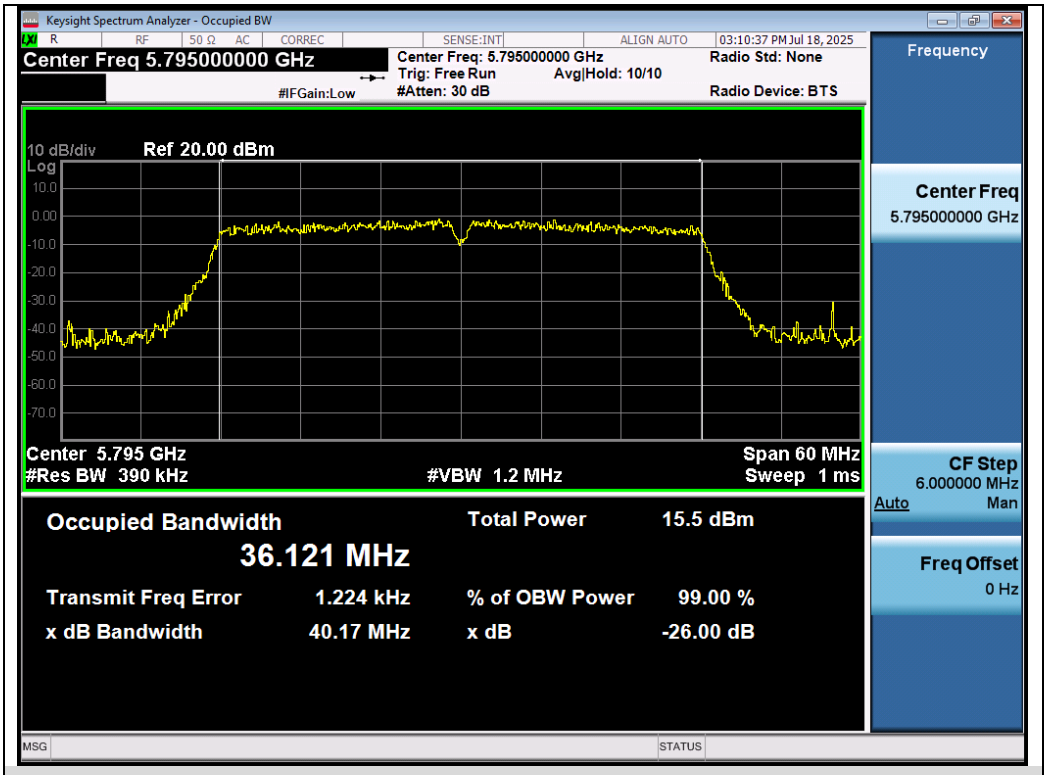

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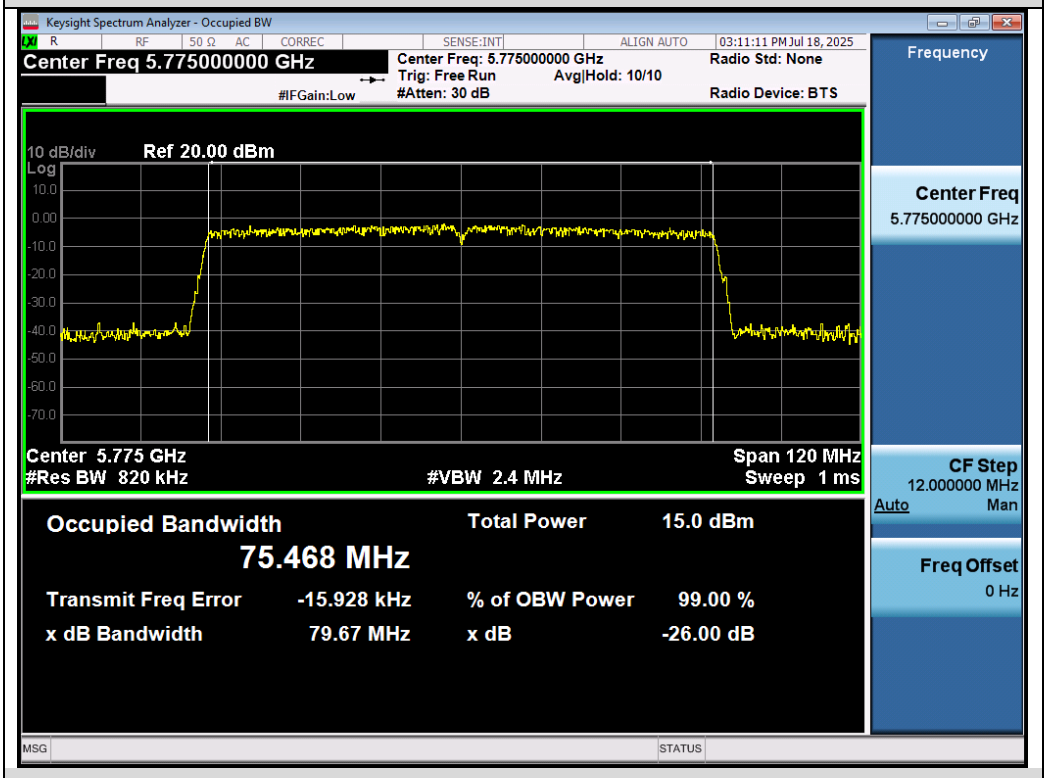

Test_Graph_802.11ac80_ANT1_5775_MCS0_OBW

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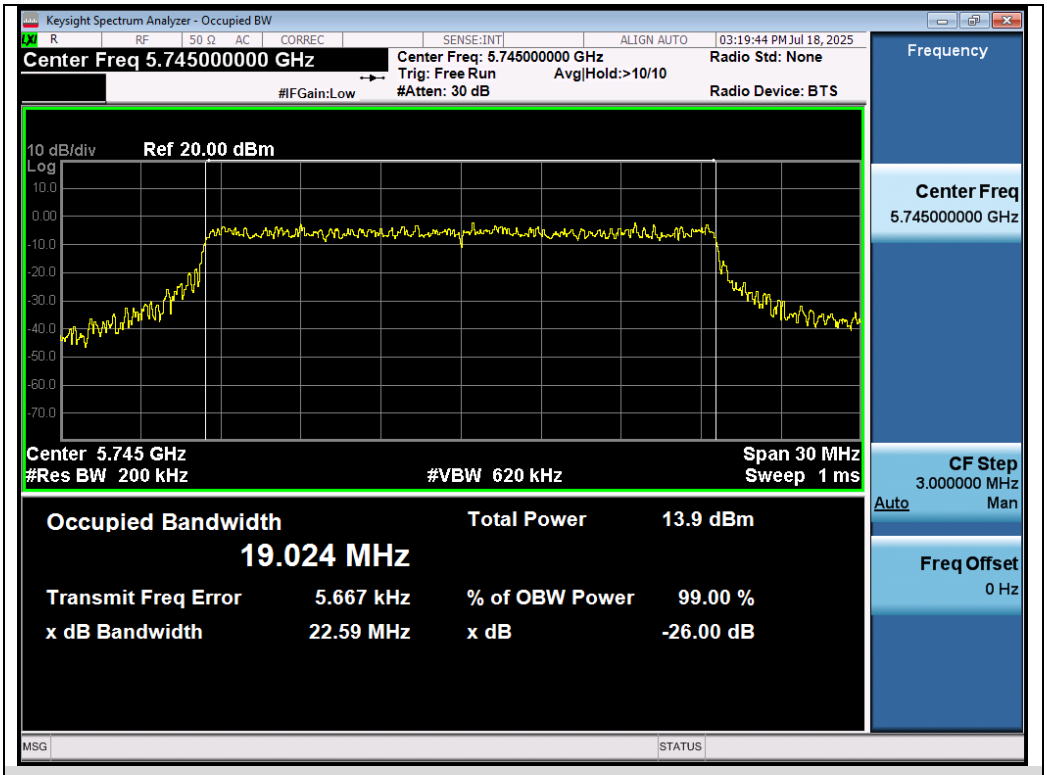

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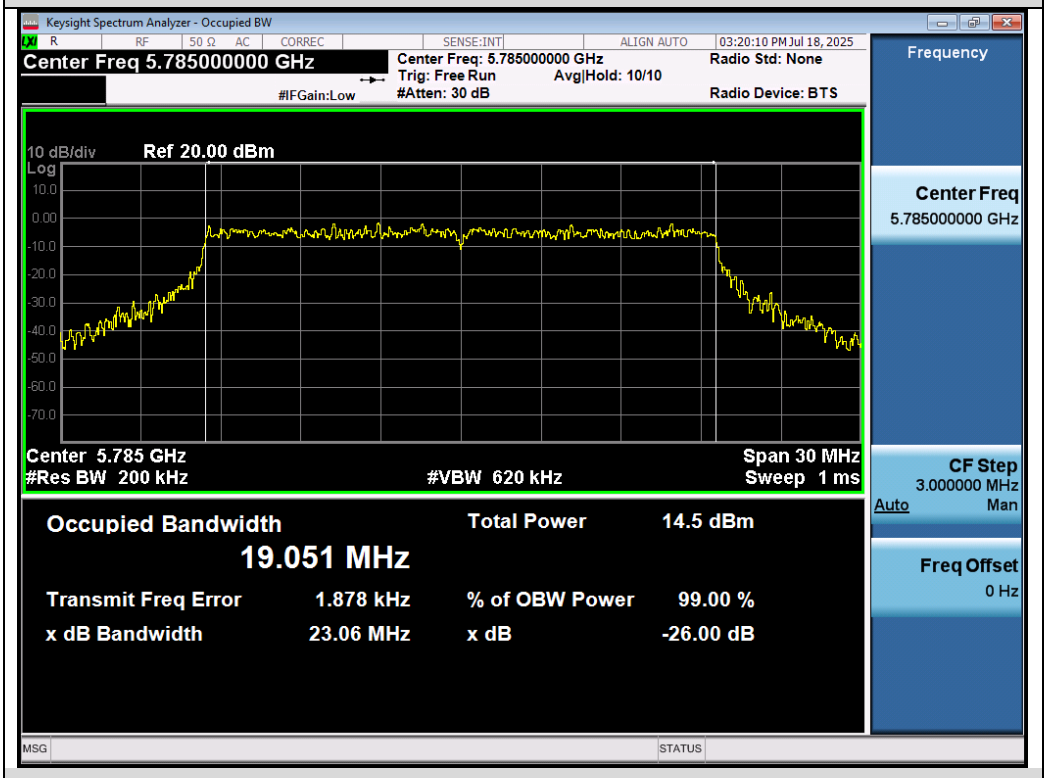

Test_Graph_802.11ax20_ANT1_5785_MCS0_OBW

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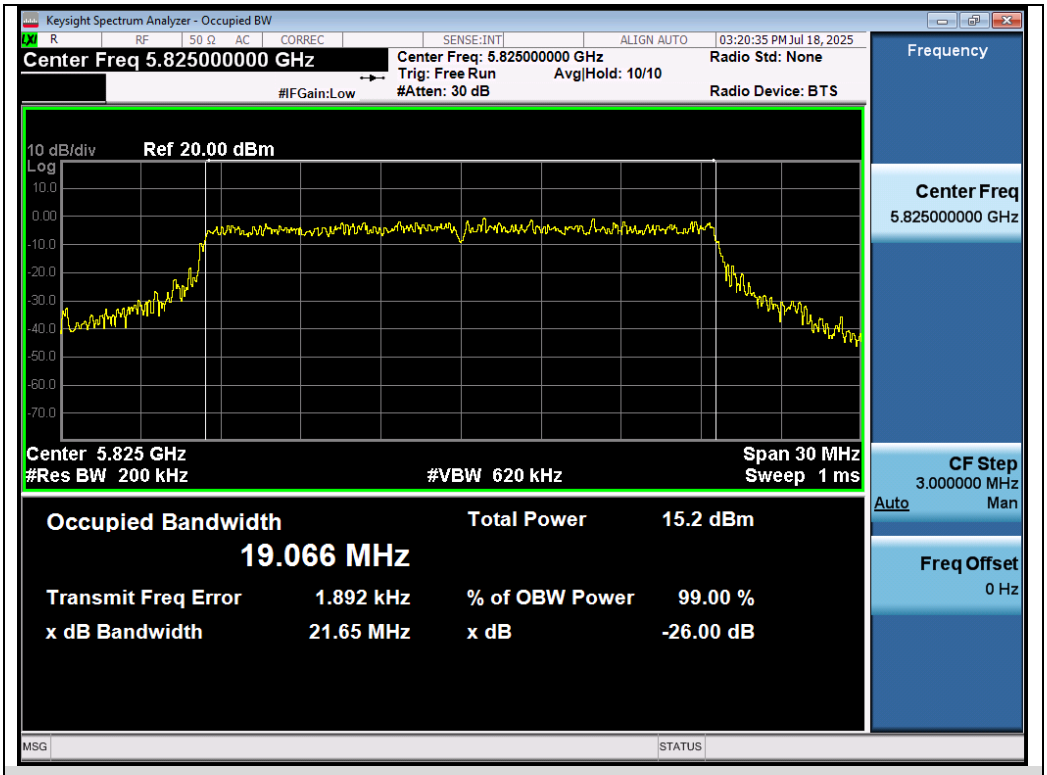

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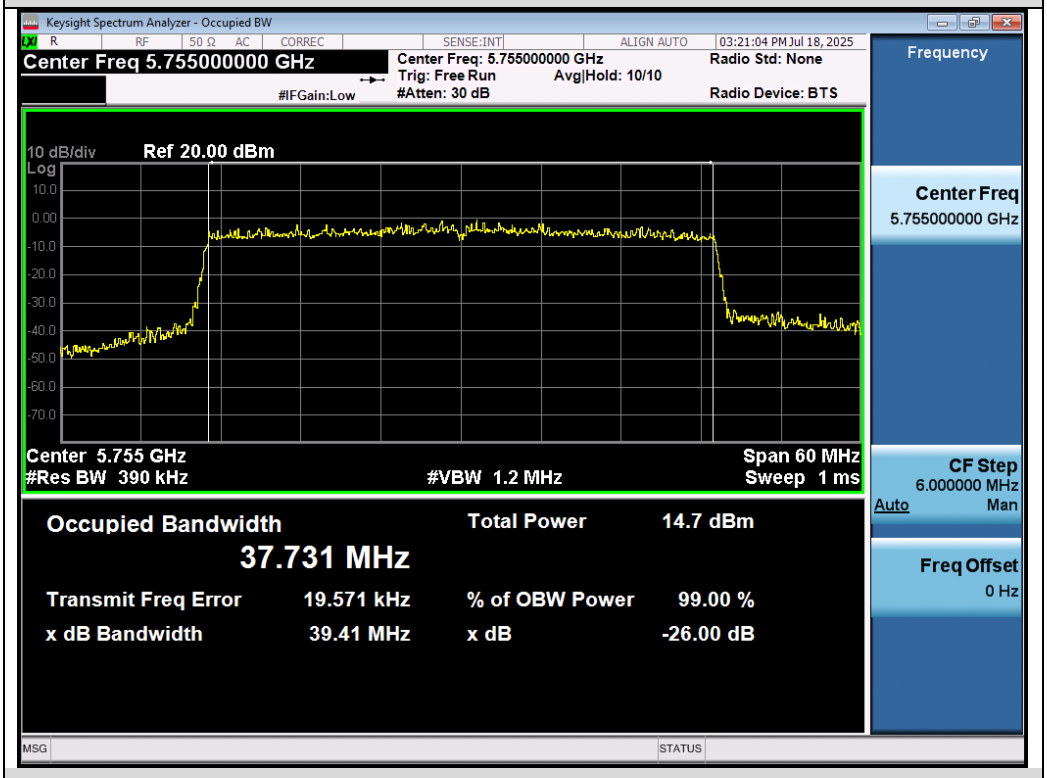

Test_Graph_802.11ax40_ANT1_5755_MCS0_OBW

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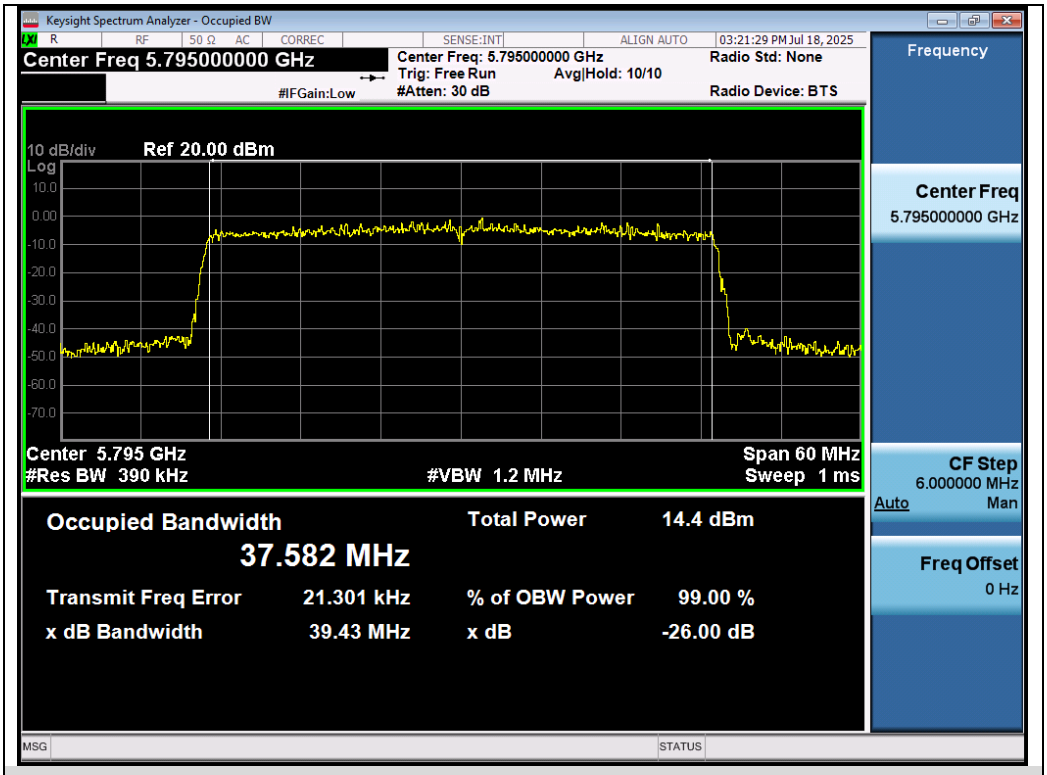

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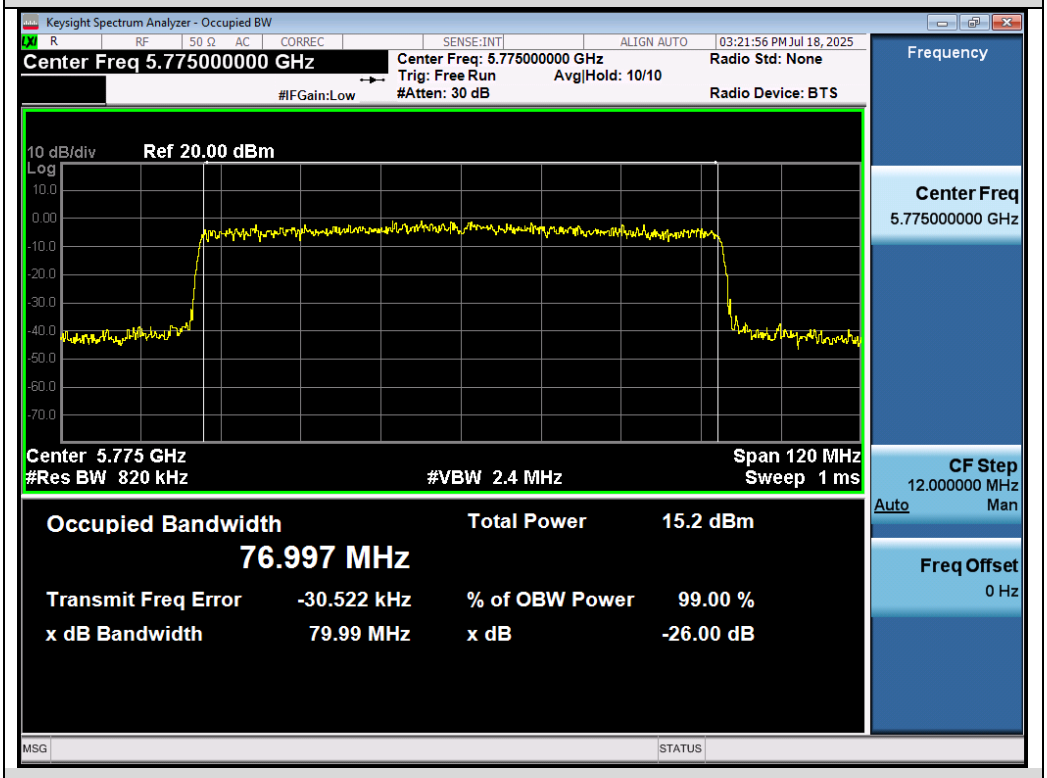

Test_Graph_802.11ax80_ANT1_5775_MCS0_OBW

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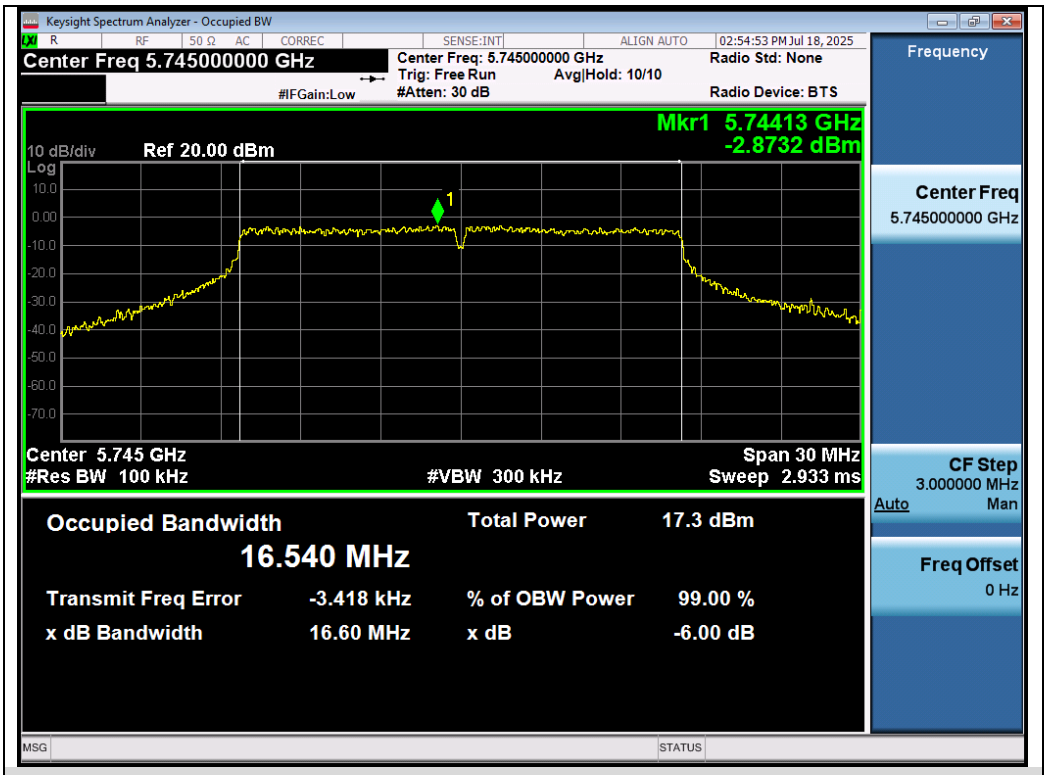
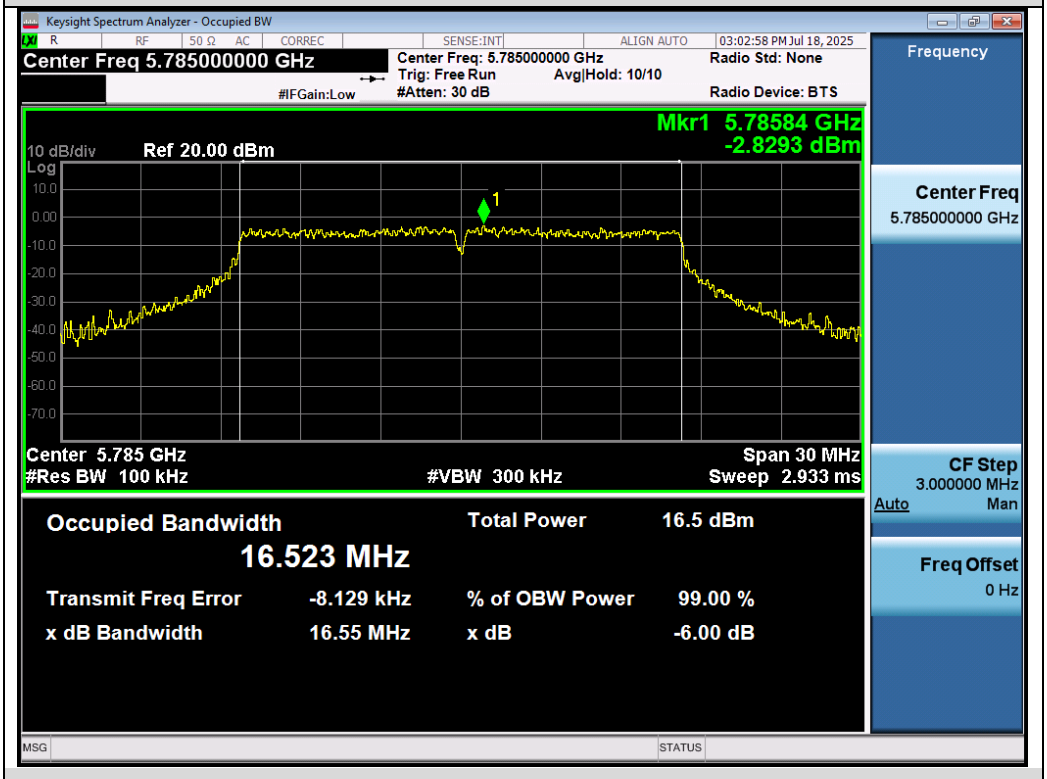
Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW



Test_Graph_802.11a_ANT1_5785_6Mbps_DTSBW

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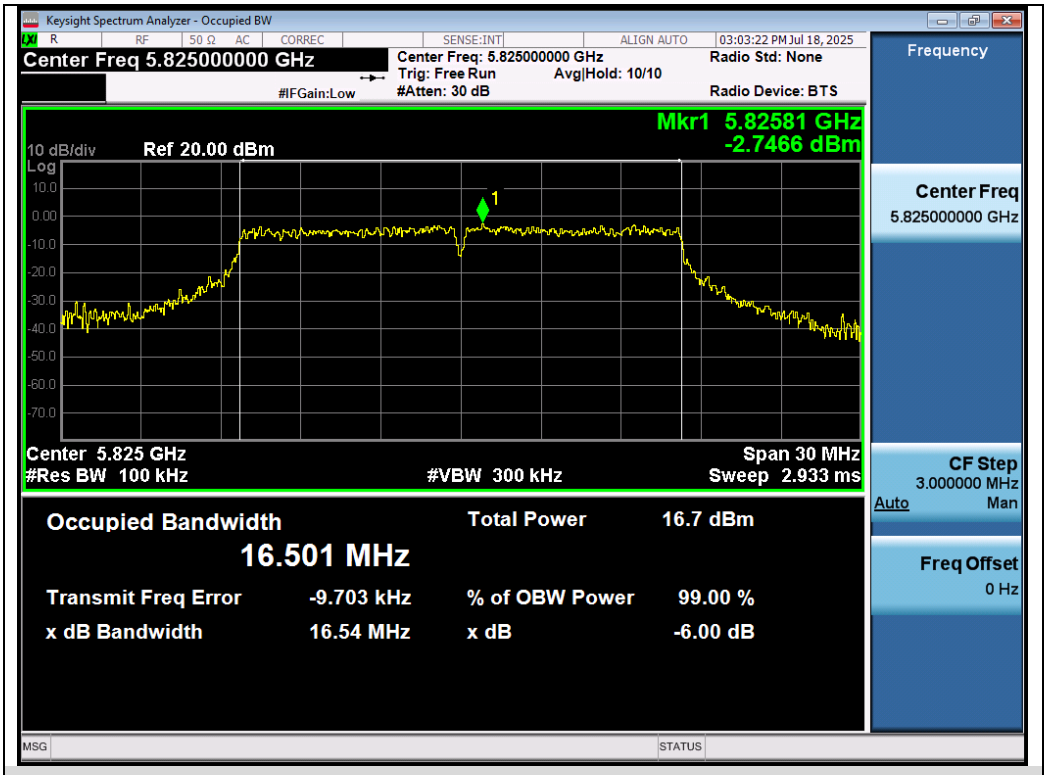

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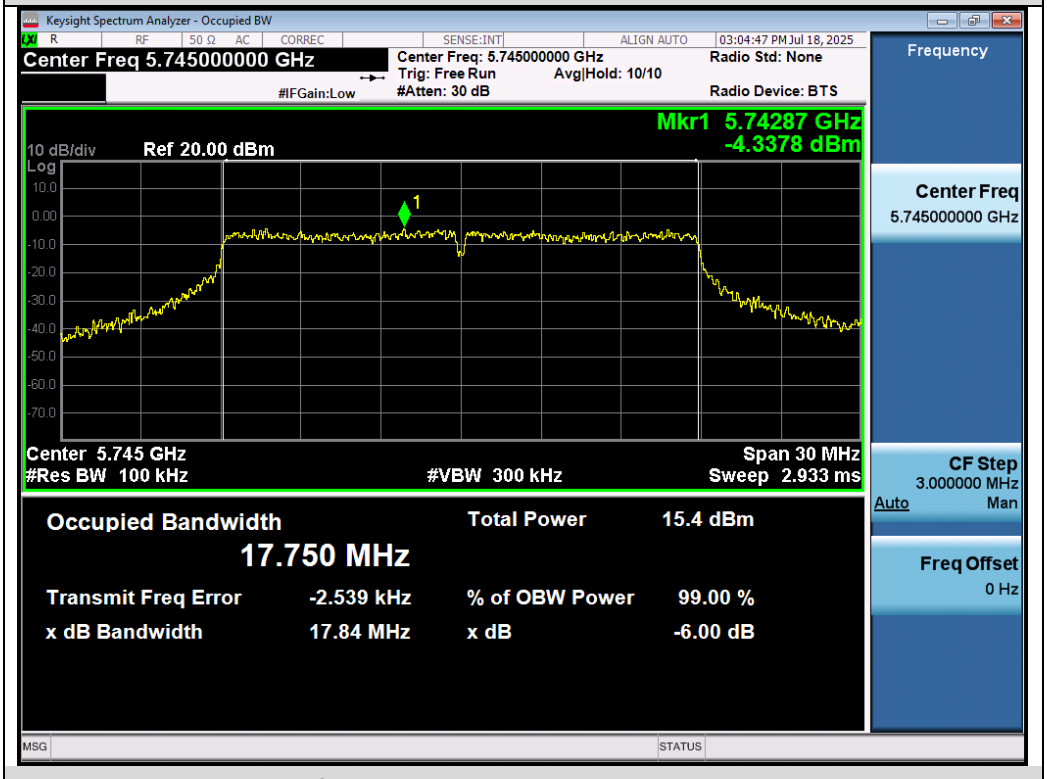

Test_Graph_802.11n20_ANT1_5745_MCS0_DTSBW

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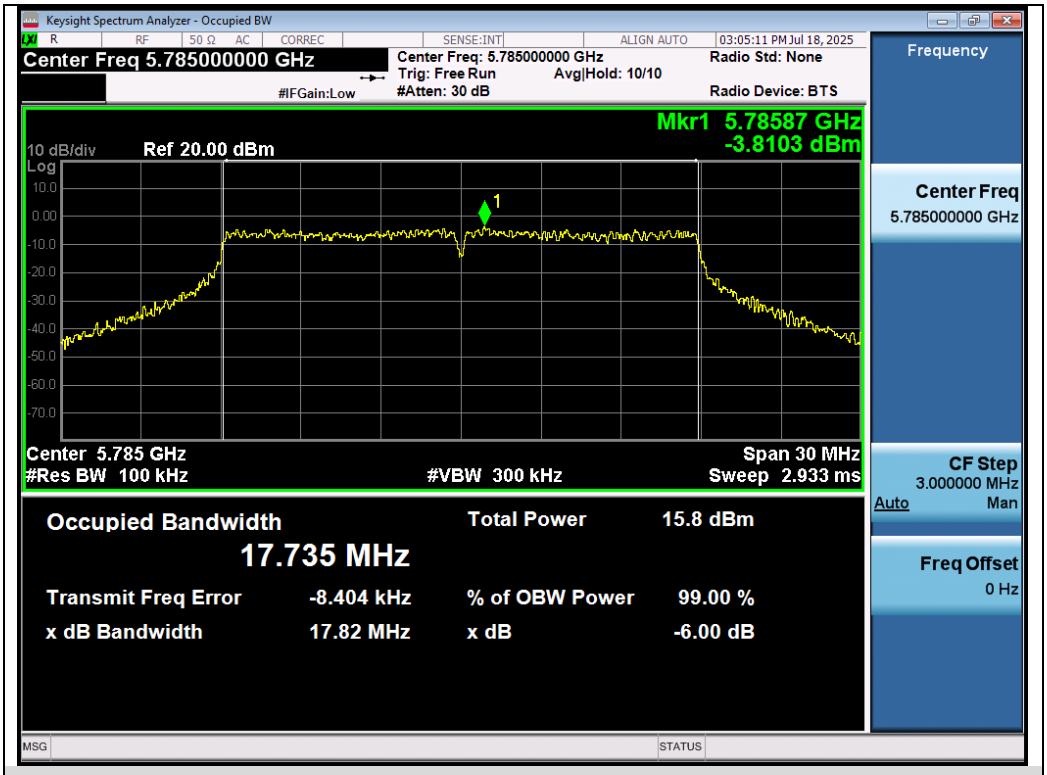

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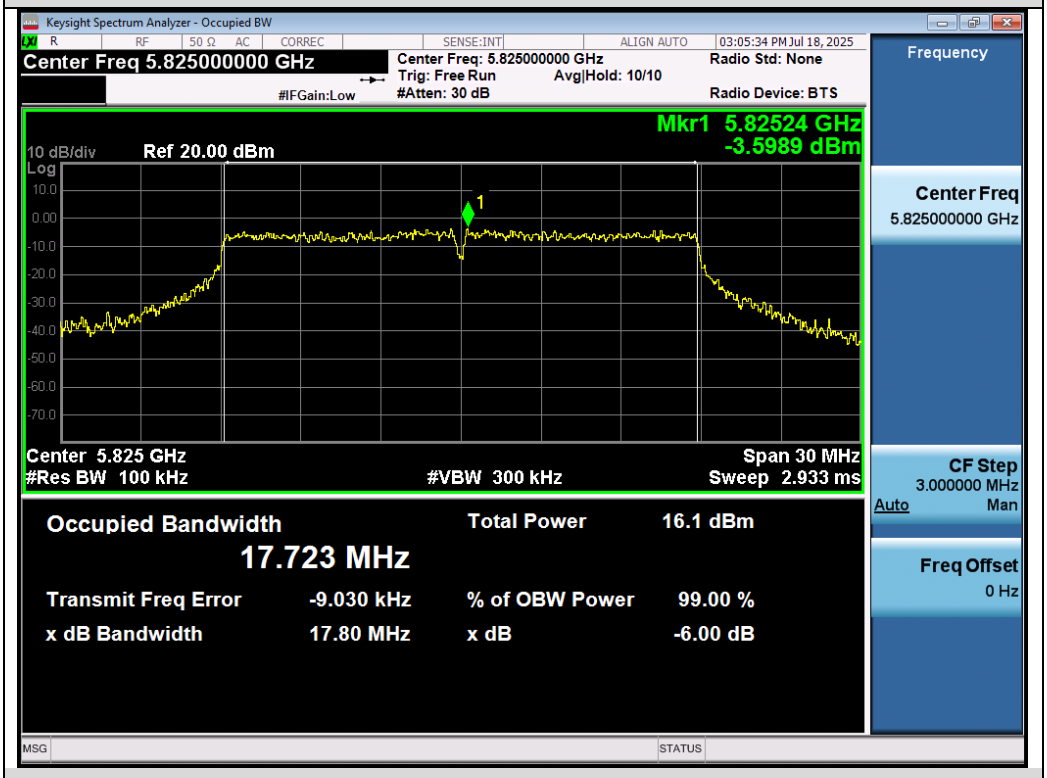

Test_Graph_802.11n20_ANT1_5825_MCS0_DTSBW

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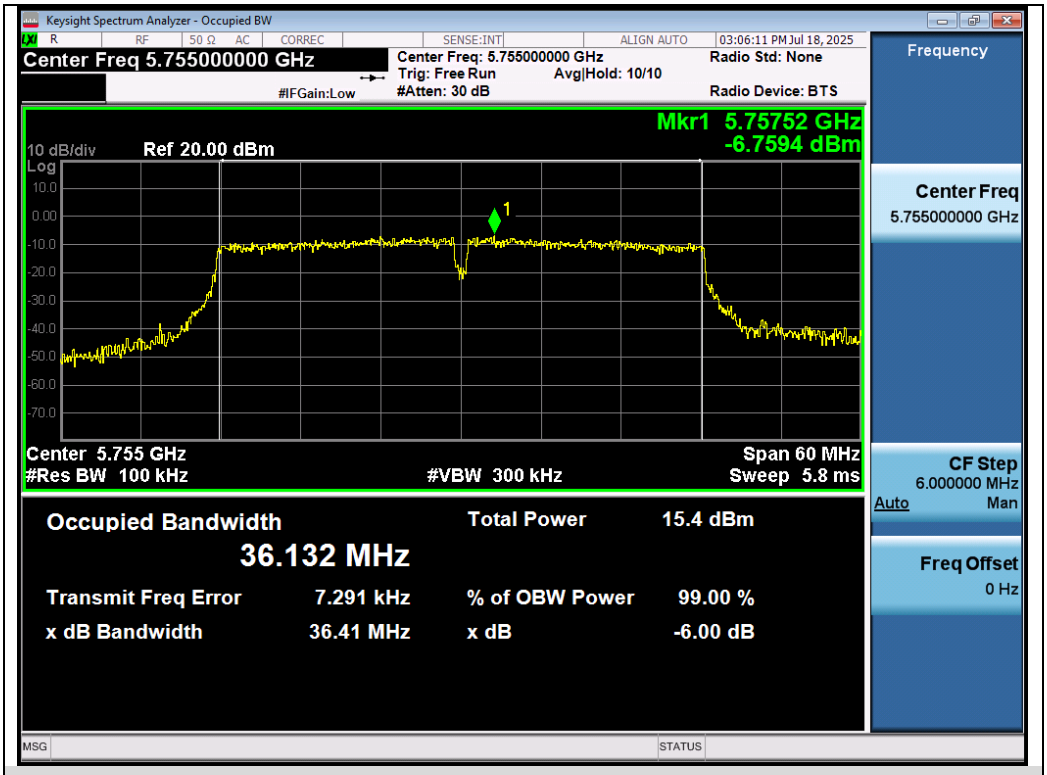

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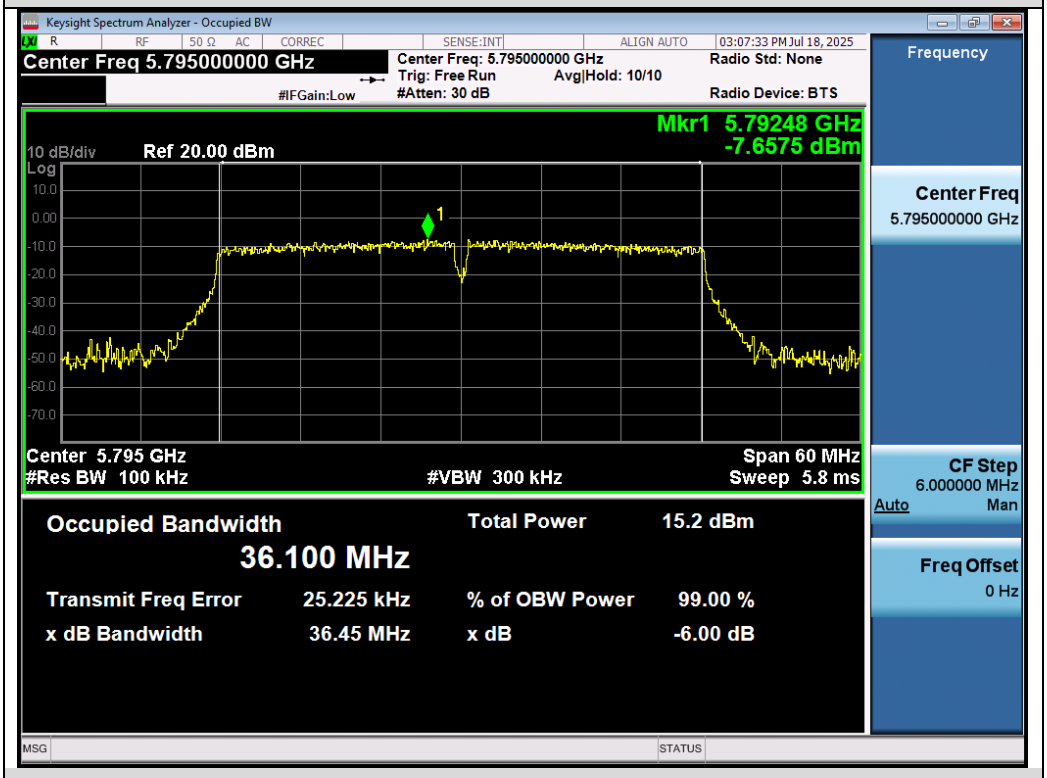

Test_Graph_802.11n40_ANT1_5795_MCS0_DTSBW

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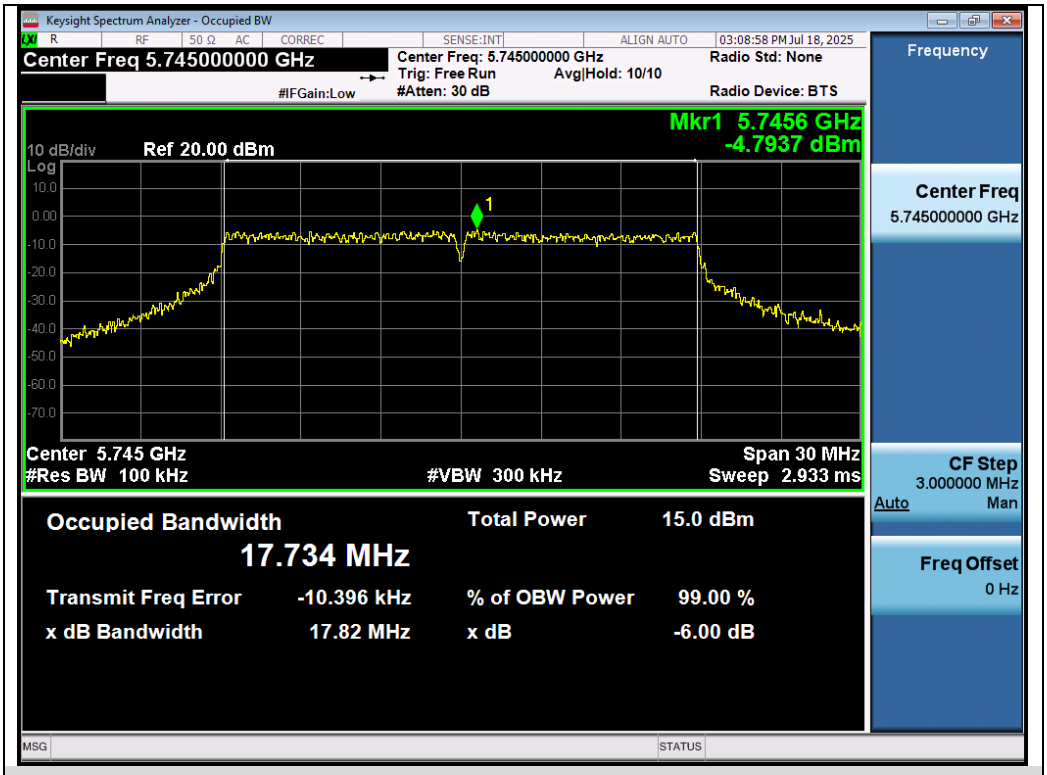

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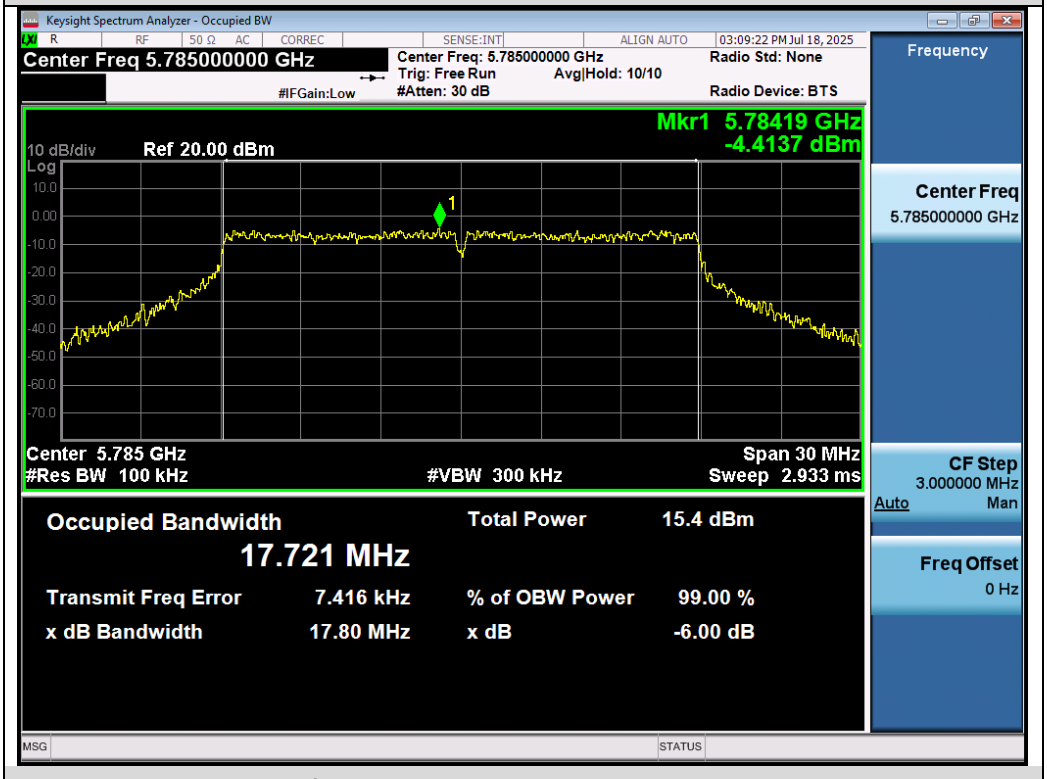

Test_Graph_802.11ac20_ANT1_5785_MCS0_DTSBW

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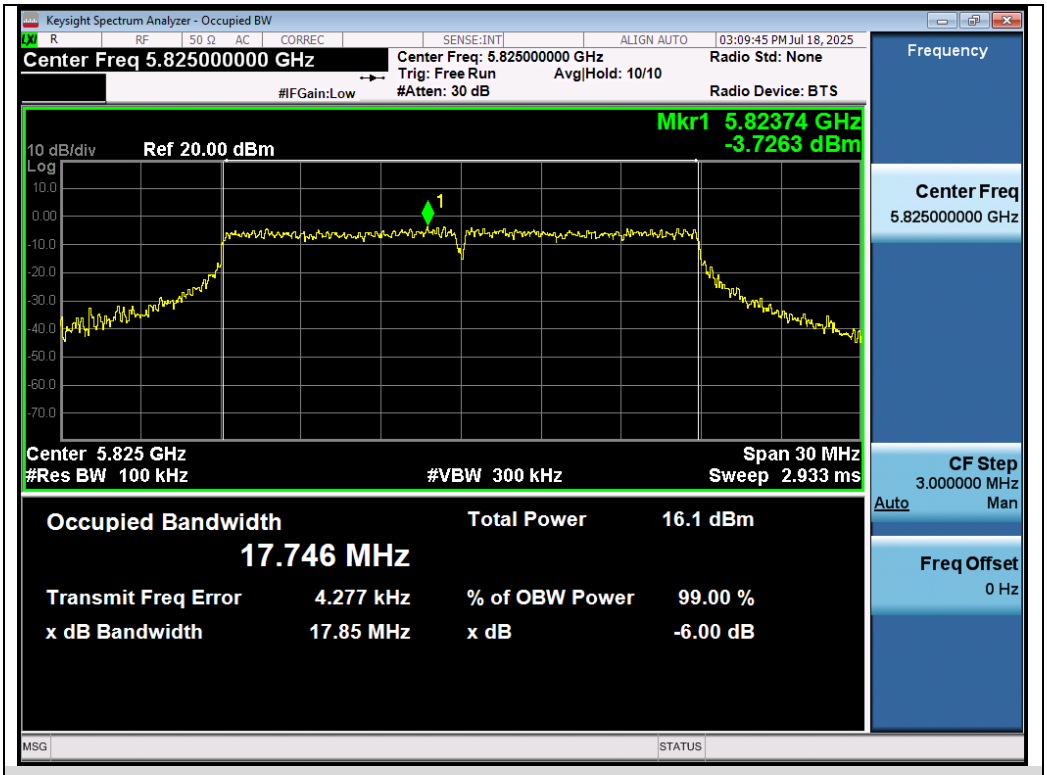

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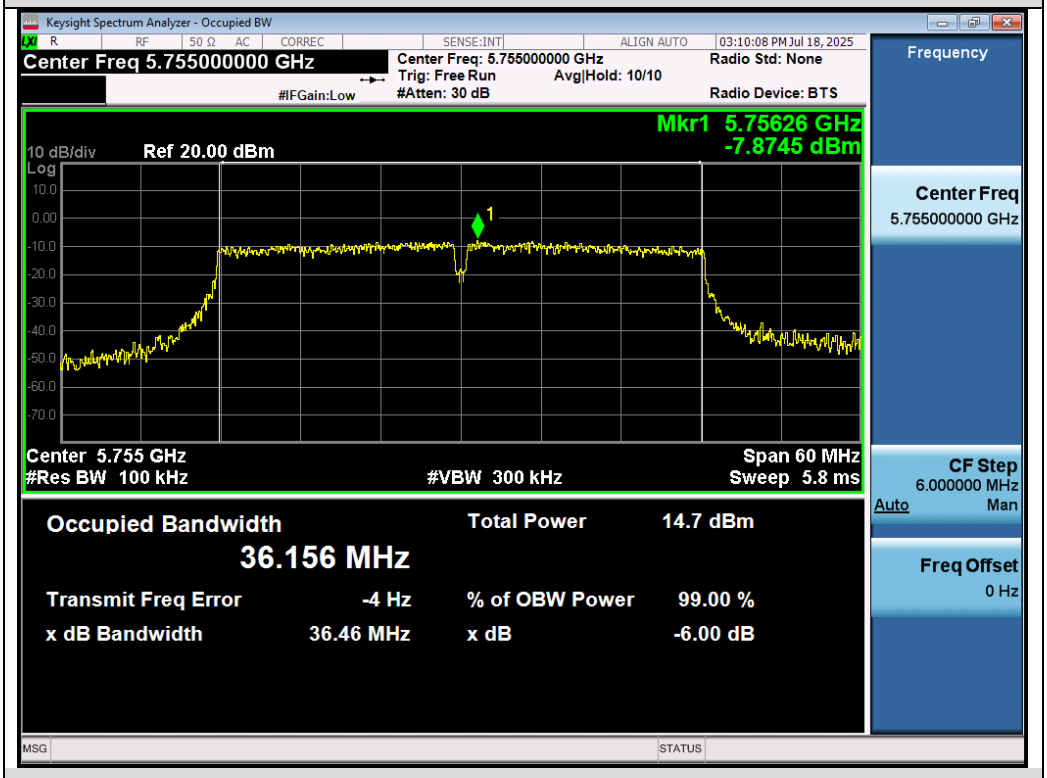

Test_Graph_802.11ac40_ANT1_5755_MCS0_DTSBW

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