

RF MEASUREMENT REPORT

FCC ID : 2AXJ4XE200
Applicant : TP-Link Corporation Limited
Application Type : Certification
Product : AXE11000 Whole Home Mesh Wi-Fi 6E System
Model No. : Deco XE200
Brand Name : tp-link
FCC Classification : Unlicensed National Information Infrastructure (NII)
FCC Rule Part(s) : Part15 Subpart E (Section 15.407)
Received Date : June 28, 2022
Test Date : August 10, 2022 ~ August 23, 2022

Tested By : Owen Tsai

(Owen Tsai)

Reviewed By : Paddy Chen

(Paddy Chen)

Approved By : Chenz Ker

(Chenz Ker)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 789033 D02v02r01. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2206TW0121-U2	1.0	Original Report	2022-09-07	Valid

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General Information

Applicant	TP-Link Corporation Limited
Applicant Address	Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong
Manufacturer	TP-Link Corporation Limited
Manufacturer Address	Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082
FCC Rule Part(s)	Part 15.407
Test Device Serial No.	#1-1 <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering

Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Taiwan, EU and TELEC Rules.

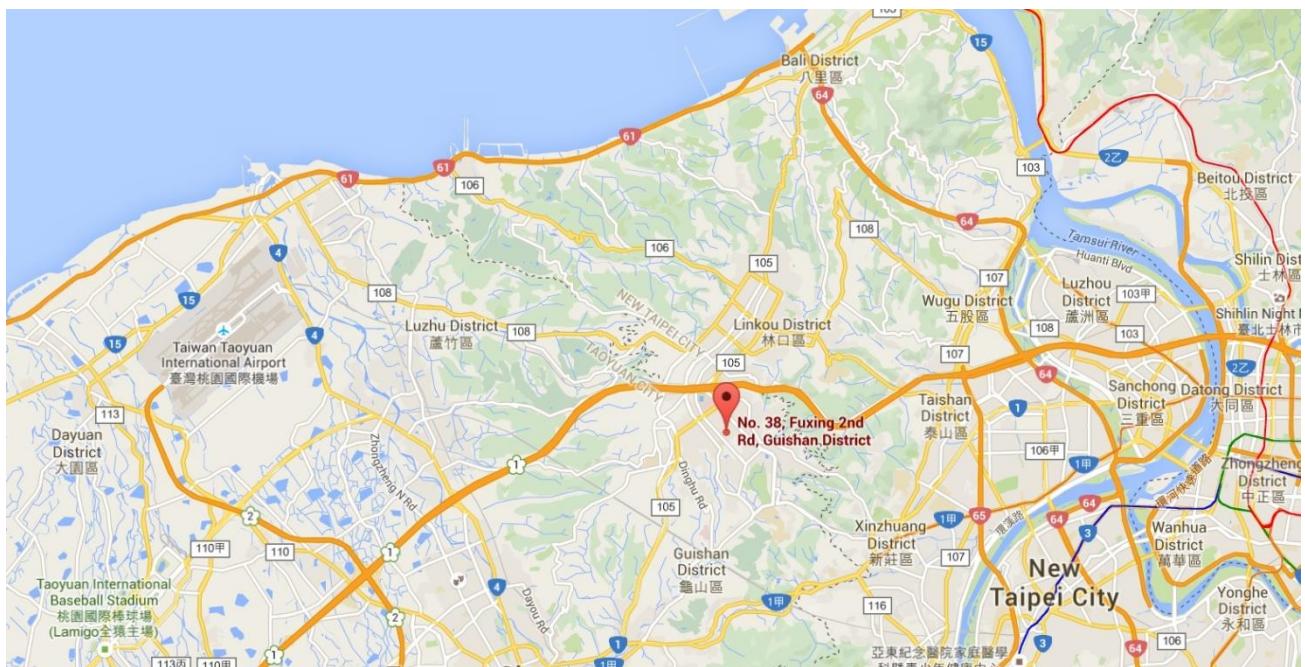
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada and Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name:	AXE11000 Whole Home Mesh Wi-Fi 6E System
Model No.:	Deco XE200
Brand Name:	tp-link
Wi-Fi Specification:	802.11a/b/g/n/ac/ax
EUT Identification No.:	20220711Sample#6 (Conducted) 20220711Sample#5 (Radiated)
Accessory	
Adapter	Brand: tp-link Model: T120450-2B4 Input: 100 - 240V ~ 50/60Hz 1.5A. Output: DC 12.0V / 4.5A Cable Out: Non-shielding, 1.5m

2.2. Product Specification Subjective to this Report

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
Type of Modulation:	802.11a/n/ac: OFDM 802.11ax: OFDMA
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 600Mbps 802.11ac: up to 3466.7Mbps 802.11ax: up to 4804Mbps

Note: For other features of this EUT, test report will be issued separately.

2.3. Working Frequencies for this report

802.11a/n-HT20/ac-VHT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	149	5745 MHz	153	5765 MHz
157	5785 MHz	161	5805 MHz	165	5825 MHz

802.11n-HT40/ac-VHT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz
159	5795 MHz	--	--	--	--

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	155	5775 MHz	--	--

2.4. Description of Available Antennas

Antenna Type	Frequency Band (MHz)	Channel Bandwidth (MHz)	Tx Paths	Number of spatial streams	Max Antenna Gain (dBi)	CDD Directional Gain (dBi)	
						For Power	For PSD
Dipole Antenna	2412 ~ 2462	20, 40	4	1	2.00	2.00	8.02
			4	4	2.00	2.00	2.00
Dipole & Franklin Antenna	5150 ~ 5250, 5725 ~ 5850	20	8	1	2.00	5.00	11.03
		40, 80	8	1	2.00	2.00	11.03
		20	8	4	2.00	3.51	5.01
		40, 80	8	4	2.00	2.00	5.01

Note:

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

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,

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

- For power measurements on IEEE 802.11 devices,

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

$$\text{Array Gain} = 0 \text{ dB for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

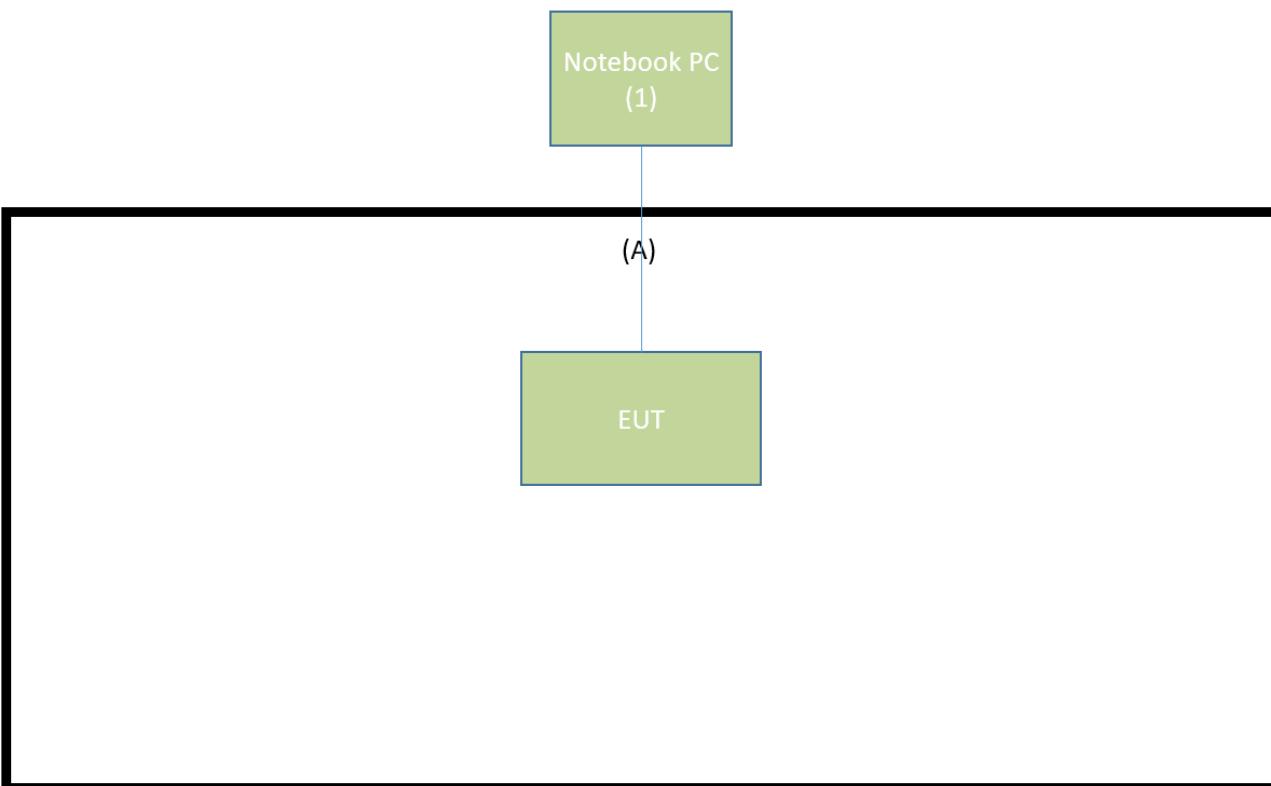
$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}) \text{ dB or } 3 \text{ dB, whichever is less, for 20MHz channel widths with } N_{ANT} \geq 5$$

2.5. Test Mode

Test Mode	Mode 1: Transmit by 802.11a_N _{ss} =1 (6Mbps) (CDD mode)
	Mode 2: Transmit by 802.11ac-VHT20_N _{ss} =1 (MCS0) (CDD mode)
	Mode 3: Transmit by 802.11ac-VHT40_N _{ss} =1 (MCS0) (CDD mode)
	Mode 4: Transmit by 802.11ac-VHT80_N _{ss} =1 (MCS0) (CDD mode)
	Mode 5: Transmit by 802.11ax-HE20_N _{ss} =1 (MCS0) (CDD mode)
	Mode 6: Transmit by 802.11ax-HE40_N _{ss} =1 (MCS0) (CDD mode)
	Mode 7: Transmit by 802.11ax-HE80_N _{ss} =1 (MCS0) (CDD mode)
	Mode 8: Transmit by 802.11ax-HE20 (NII-1)_N _{ss} =4 (MCS0) (CDD mode)
	Mode 8: Transmit by 802.11ax-HE40 (NII-1)_N _{ss} =4 (MCS0) (CDD mode)
Remark:	
1. For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.	
2. For CDD mode, this device supports 8 N _{ss} and power level is the same of spatial multiplexing. The worst case is N _{ss} =1. Only N _{ss} =4 at 802.11ax-HE20/HE40 of NII-1 and N _{ss} =1 were tested in this report.	
3. Due to the same modulation between 802.11n and 802.11ac, so 802.11n-HT20 and HT40 are covered by 802.11ac-VHT20 and VHT40 in this report, meanwhile, power level for 802.11n-HT20 and HT40 will not be greater than 802.11ac-VHT20 and VHT40.	
4. EUT supports one configuration only in 802.11ax full RU mode.	

2.6. Configuration of Test System

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

Connection Diagram	
	
Cable Type	
A	LAN Cable
Cable Description	
	Non shielded, 10m

2.7. Test System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	Acer	P5LJ0	Non-Shielded, 0.8m

2.8. Description of Test Software

The test utility software used during testing was “QDART”, the version is ver1.0-00080.

Note: Final power setting please refer to operational description.

2.9. Applied Standards

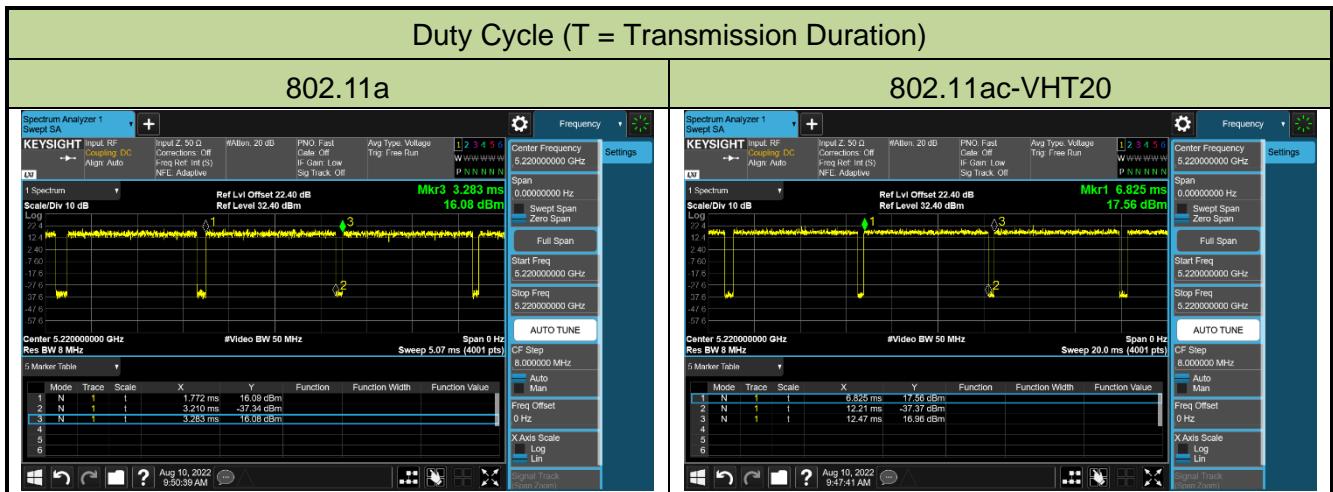
According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

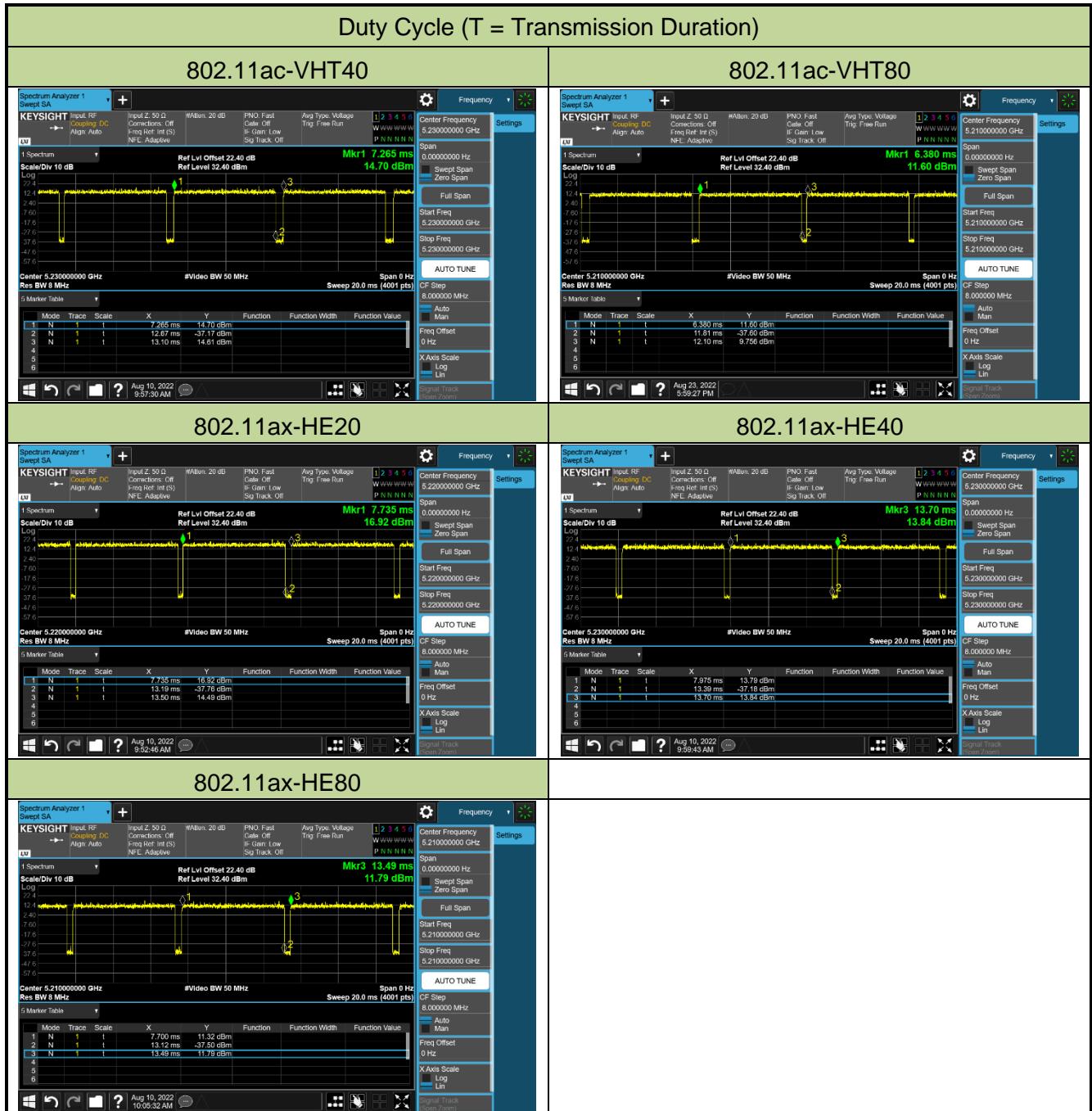
- FCC Part 15.247
- KDB 789033 D02v02r01,
- KDB 662911 D01v02r01
- ANSI C63.10-2013

2.10. Duty Cycle

5GHz (NII) operation is possible in 20MHz, 40MHz, 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. 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:

Test Mode	Duty Cycle
802.11a	95.17%
802.11ac-VHT20	95.39%
802.11ac-VHT40	92.63%
802.11ac-VHT80	94.93%
802.11ax-HE20	94.62%
802.11ax-HE40	94.59%
802.11ax-HE80	93.61%





2.11. Test Configuration

The device was tested per the guidance of KDB 789033 D02v02r01.ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.12. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.13. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 789033 D02v02r01 were used in the measurement.

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that those cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 shall be considered sufficient to comply with the provisions of this section."

- The antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2023/3/7
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2023/4/20
EMI Test Receiver	R&S	ESR3	MRTTWA00045	1 year	2023/5/9
DIVA PLUS Funk-Wetterstation	TFA	35.1083	MRTTWA00050	1 year	2023/6/16

Radiated Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2022/10/4
Acitive Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2023/5/24
Broadband Hornantenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2023/3/30
BreitbandHornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2023/3/29
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2023/3/30
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2023/3/30
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2023/3/16
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2023/3/9
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2022/10/18
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2023/6/14
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2023/6/5
Temperature/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00032	1 year	2022/10/4

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00014	1 year	2023/4/20
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2022/10/18
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2023/7/19
Attenuator	WTI	218FS-20	MRTTWE00026	1 year	2022/11/18
Attenuator	WTI	218FS-10	MRTTWE00027	1 year	2023/6/15
Temperature & Humidity Chamber	TEN BILLION	TTH-B3UP	MRTTWA00036	1 year	2023/6/14
DIVA PLUS Funk-Wetterstation	TFA	35.1083	MRTTWA00050	1 year	2023/6/16

Software	Version	Function
e3	9.160520a	EMI Test Software

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_{c(y)}$): 150kHz~30MHz: $\pm 2.53\text{dB}$
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_{c(y)}$): 9kHz ~ 1GHz: $\pm 4.25\text{dB}$ 1GHz ~ 40GHz: $\pm 4.45\text{dB}$
Conducted Power (Carrier Power / Power Density)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_{c(y)}$): $\pm 0.84\text{dB}$
Conducted Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_{c(y)}$): $\pm 2.65 \text{ dB}$
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_{c(y)}$): $\pm 3.3\%$
Temp. / Humidity
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_{c(y)}$): $\pm 0.82^\circ\text{C} / \pm 3\%$
Frequency Error
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_{c(y)}$): $\pm 78.4\text{Hz}$

7. TEST RESULT

7.1. Summary

FCC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407(a)	26dB Bandwidth	N/A	Conducted	Pass	Section 7.2
15.407(e)	6dB Bandwidth	$\geq 500\text{kHz}$		Pass	Section 7.3
15.407(a)(1)(ii), (3)(i)	Maximum Conducted Output Power	Refer to section 7.4		Pass	Section 7.4
15.407(h)(1)	Transmit Power Control	$\leq 24 \text{ dBm}$		N/A	Section 7.5
15.407(a)(1)(ii), (3)(i), (12)	Peak Power Spectral Density	Refer to section 7.6		Pass	Section 7.6
15.407(g)	Frequency Stability	N/A		N/A	Section 7.7
15.407(b)(1), (4)(i)	Undesirable Emissions	Refer to Section 7.7	Radiated	Pass	Section 7.8 & 7.9
15.205, 15.209 15.407(b)(8), (9), (10)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		Pass	
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.10

Notes:

- 1) Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) For radiated emission test, the test results shown in the following sections represent the worst-case emissions.

7.2. 26dB Bandwidth Measurement

7.2.1. Test Limit

N/A

7.2.2. Test Procedure used

KDB 789033 D02v02r01- Section II)C)1) (26dB Bandwidth)

KDB 789033 D02v02r01- Section II)D) (99% Bandwidth)

7.2.3. Test Setting

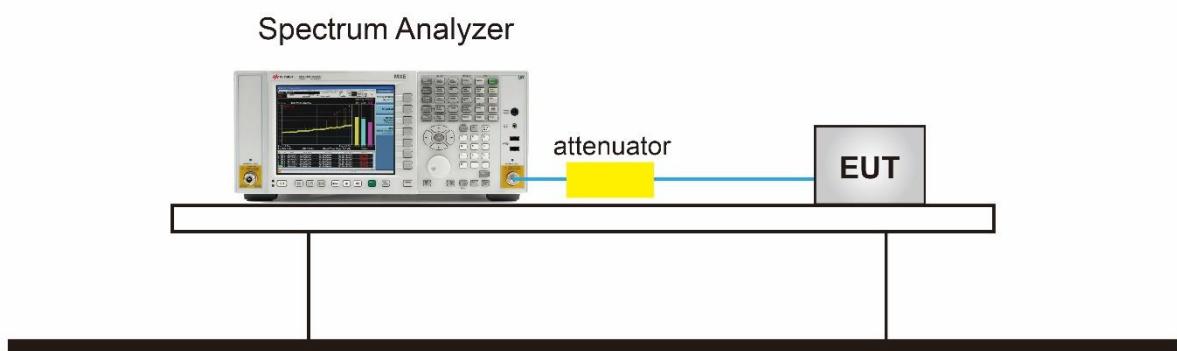
26dB Bandwidth

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW
4. Detector = Peak.
5. Trace mode = max hold.
6. 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%.

99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 1% to 5% of the OBW
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times to 5 times the OBW
5. Detector = peak
6. Trace mode = max hold
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument.

7.2.4. Test Setup

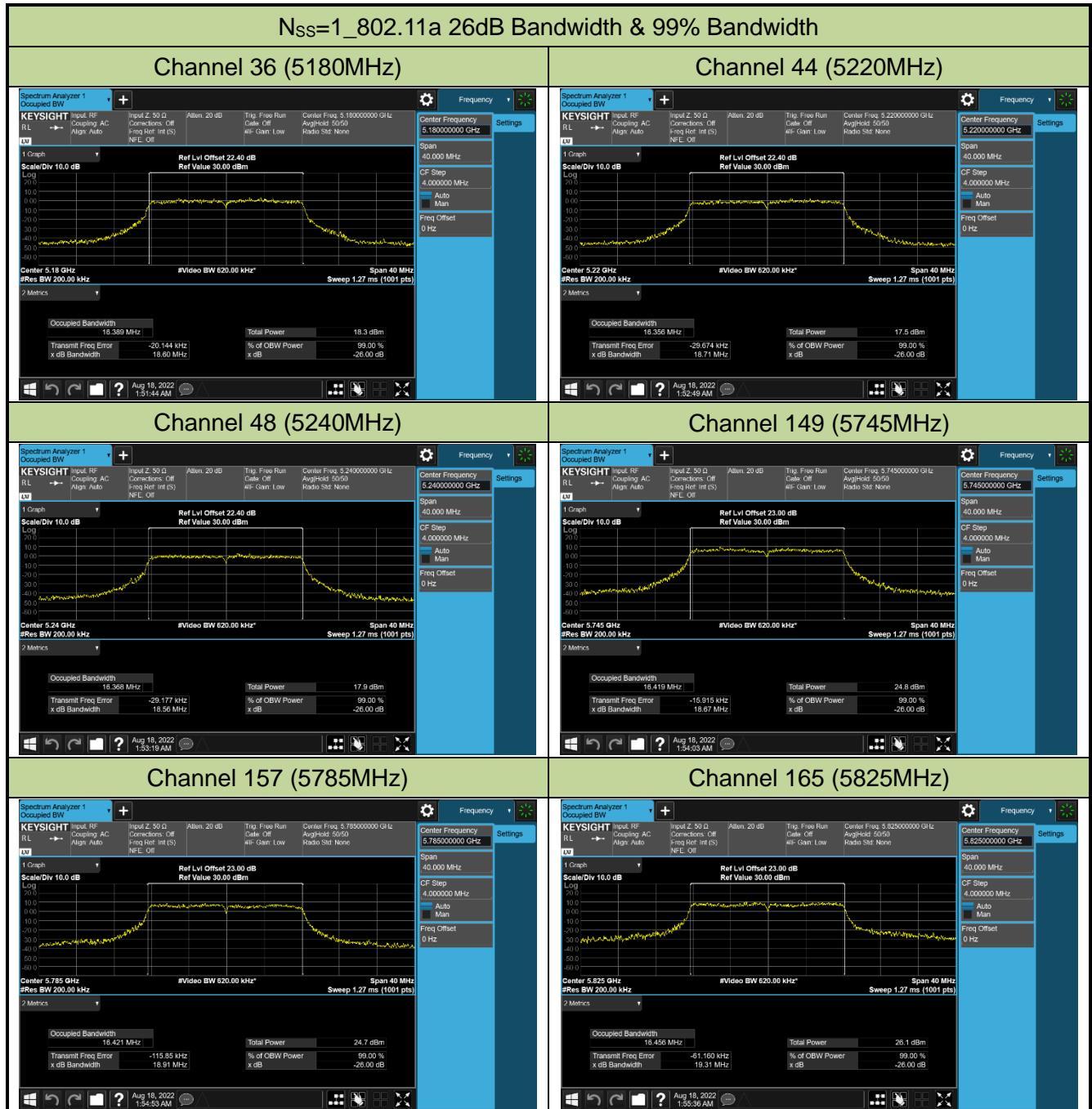


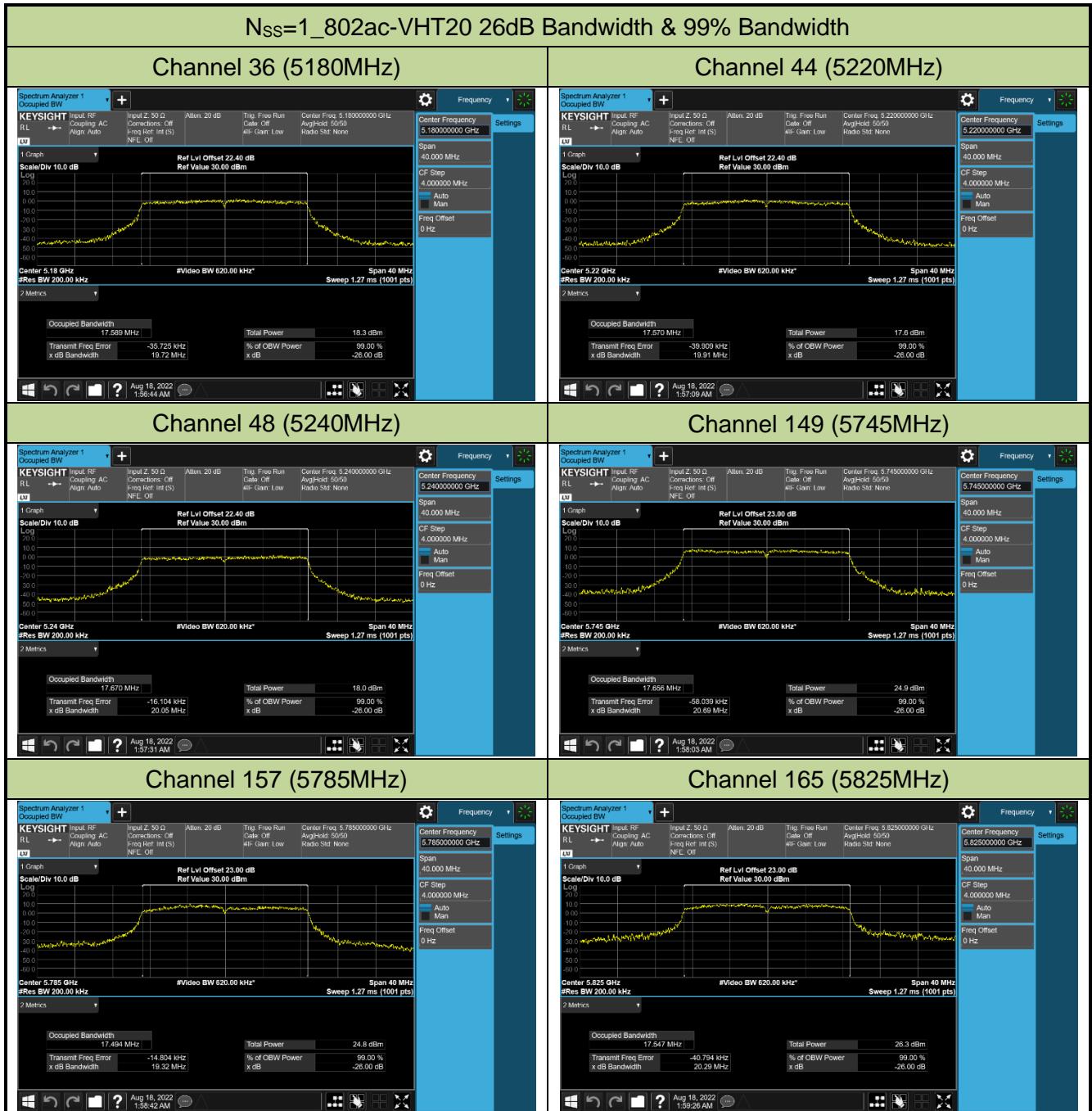
7.2.5. Test Result

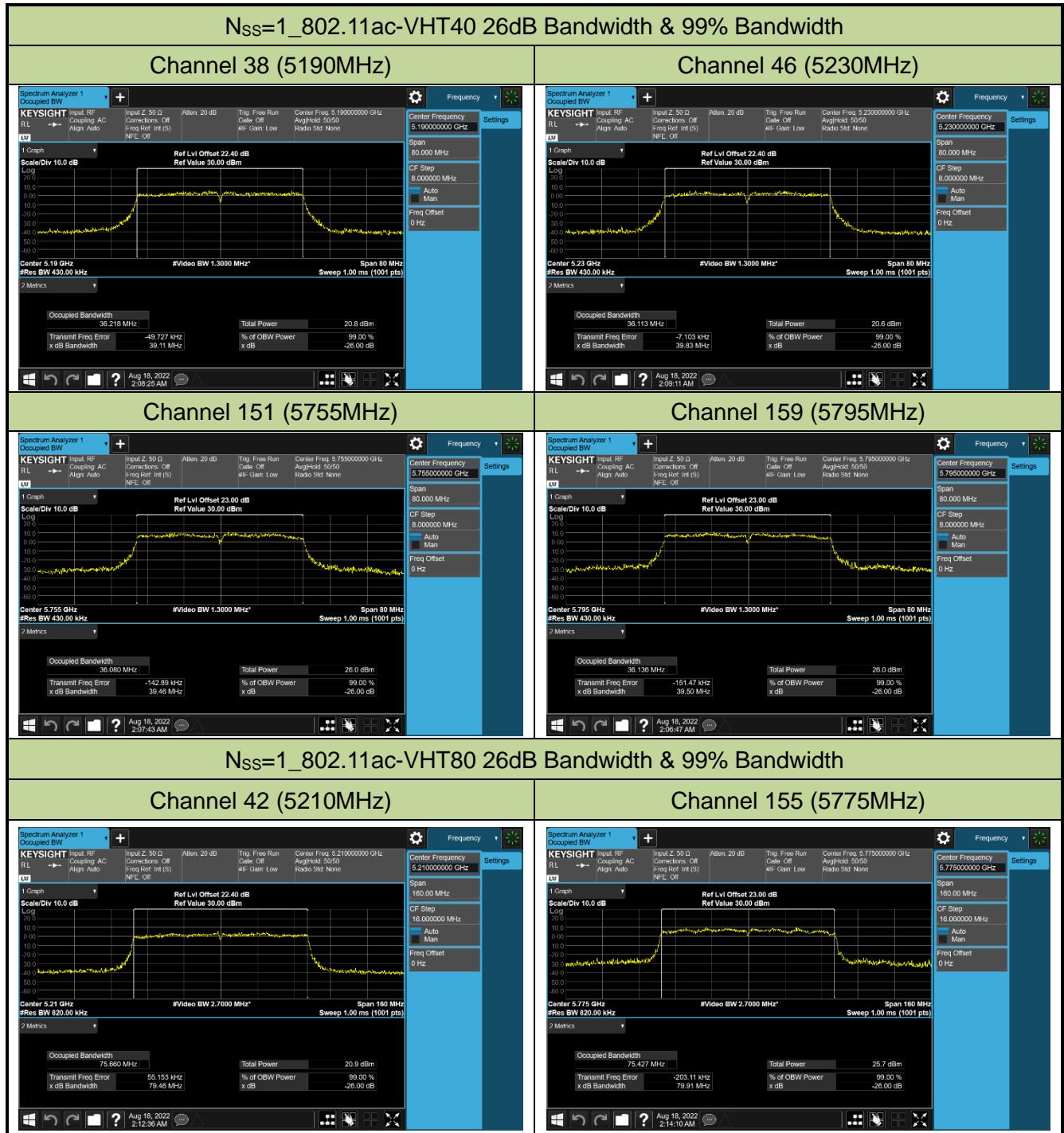
Product	AXE11000 Whole Home Mesh Wi-Fi 6E System	Test Engineer	Jay
Test Site	SR5	Test Date	2022/8/18
Test Mode	Mode 1~7		

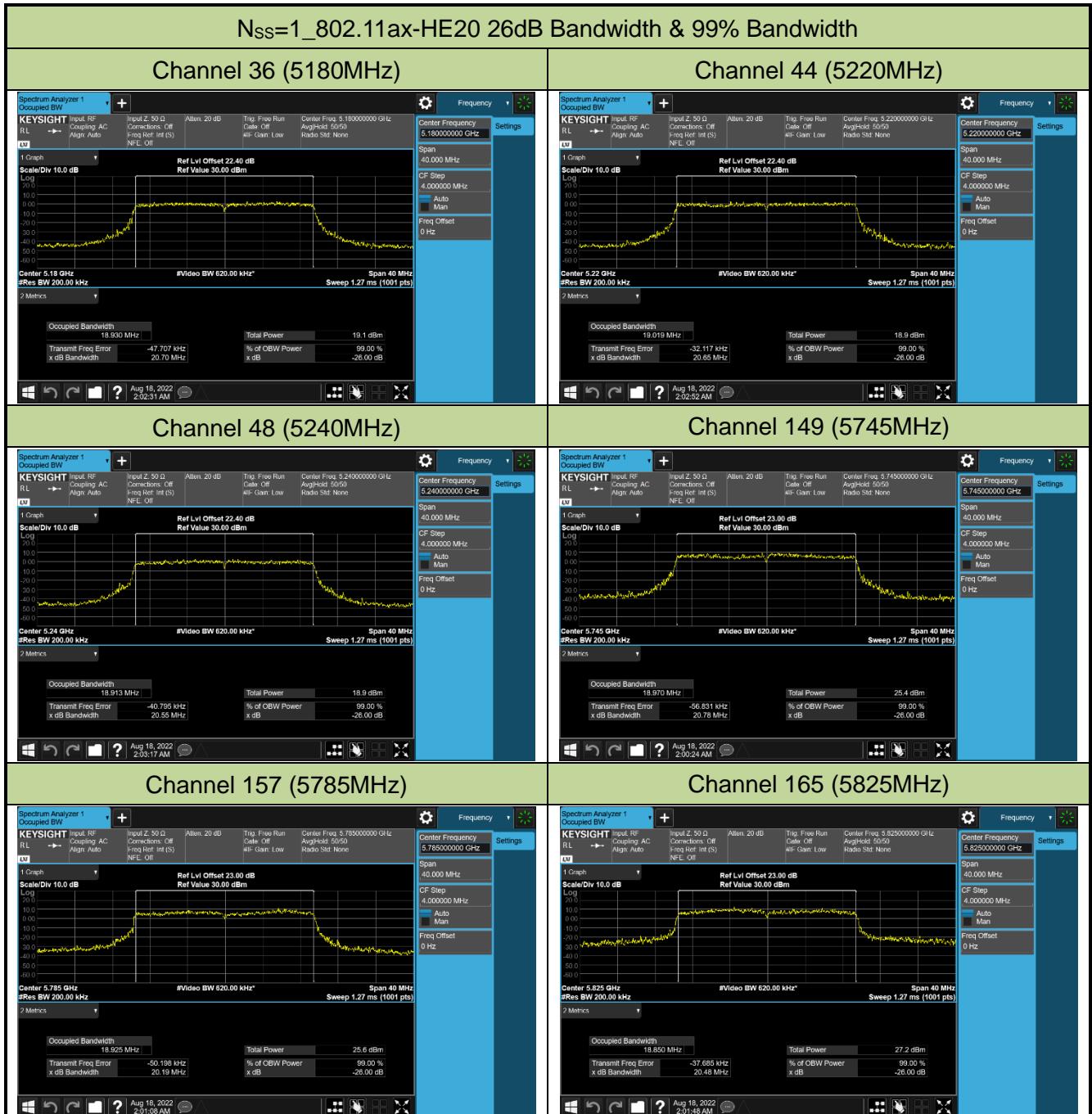
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
N_{ss}=1_Ant 6					
802.11a	6Mbps	36	5180	18.600	16.389
802.11a	6Mbps	44	5220	18.710	16.356
802.11a	6Mbps	48	5240	18.560	16.368
802.11a	6Mbps	149	5745	18.670	16.419
802.11a	6Mbps	157	5785	18.910	16.421
802.11a	6Mbps	165	5825	19.310	16.456
802.11ac-VHT20	MCS0	36	5180	19.720	17.589
802.11ac-VHT20	MCS0	44	5220	19.910	17.570
802.11ac-VHT20	MCS0	48	5240	20.050	17.670
802.11ac-VHT20	MCS0	149	5745	20.690	17.656
802.11ac-VHT20	MCS0	157	5785	19.320	17.494
802.11ac-VHT20	MCS0	165	5825	20.290	17.547
802.11ac-VHT40	MCS0	38	5190	39.110	36.218
802.11ac-VHT40	MCS0	46	5230	39.830	36.113
802.11ac-VHT40	MCS0	151	5755	39.460	36.080
802.11ac-VHT40	MCS0	159	5795	39.500	36.136
802.11ac-VHT80	MCS0	42	5210	79.460	75.660
802.11ac-VHT80	MCS0	155	5775	79.910	75.427
802.11ax-HE20	MCS0	36	5180	20.700	18.930
802.11ax-HE20	MCS0	44	5220	20.650	19.019
802.11ax-HE20	MCS0	48	5240	20.550	18.913
802.11ax-HE20	MCS0	149	5745	20.780	18.970
802.11ax-HE20	MCS0	157	5785	20.190	18.925
802.11ax-HE20	MCS0	165	5825	20.480	18.850

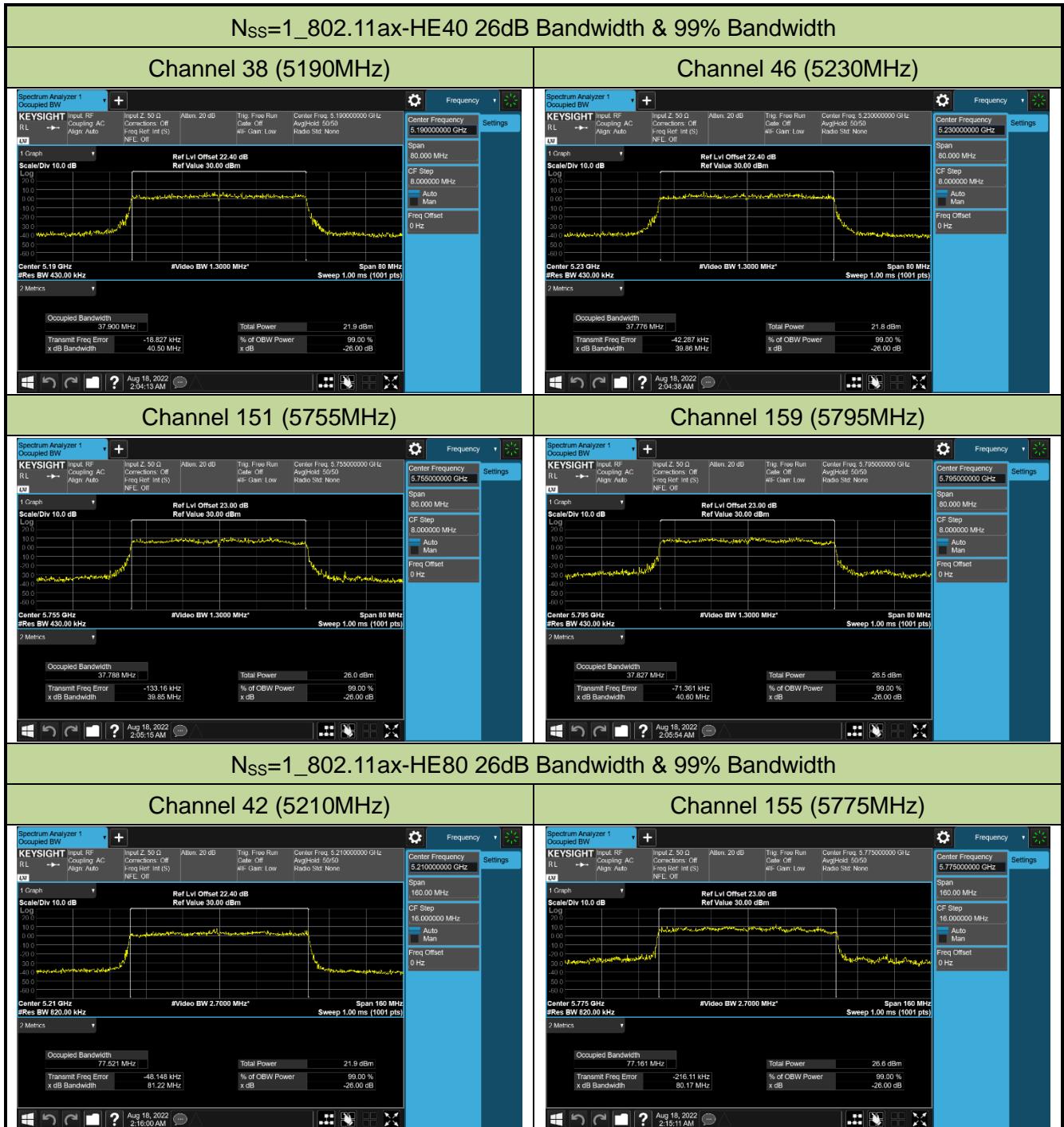
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
N_{ss}=1_Ant 6					
802.11ax-HE40	MCS0	38	5190	40.500	37.900
802.11ax-HE40	MCS0	46	5230	39.860	37.776
802.11ax-HE40	MCS0	151	5755	39.850	37.788
802.11ax-HE40	MCS0	159	5795	40.600	37.827
802.11ax-HE80	MCS0	42	5210	81.220	77.521
802.11ax-HE80	MCS0	155	5775	80.170	77.161











7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

The minimum 6dBbandwidth shall be at least 500 kHz.

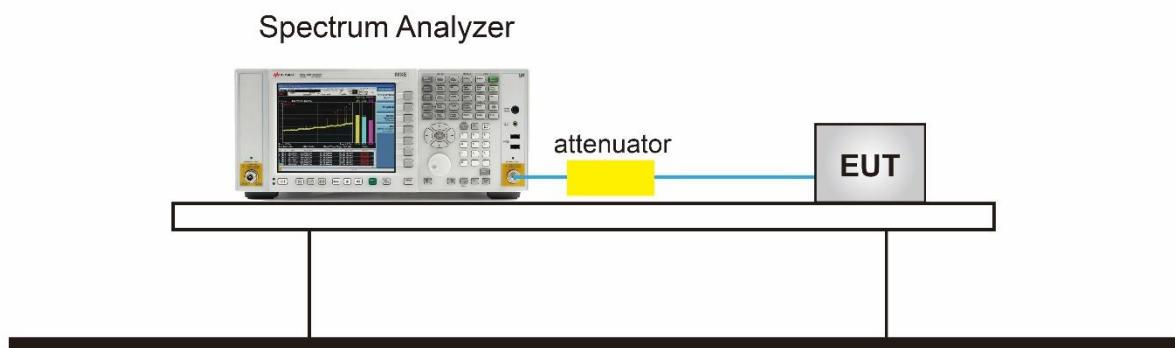
7.3.2. Test Procedure used

KDB 789033 D02v02r01- Section II) C.2

7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW $3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

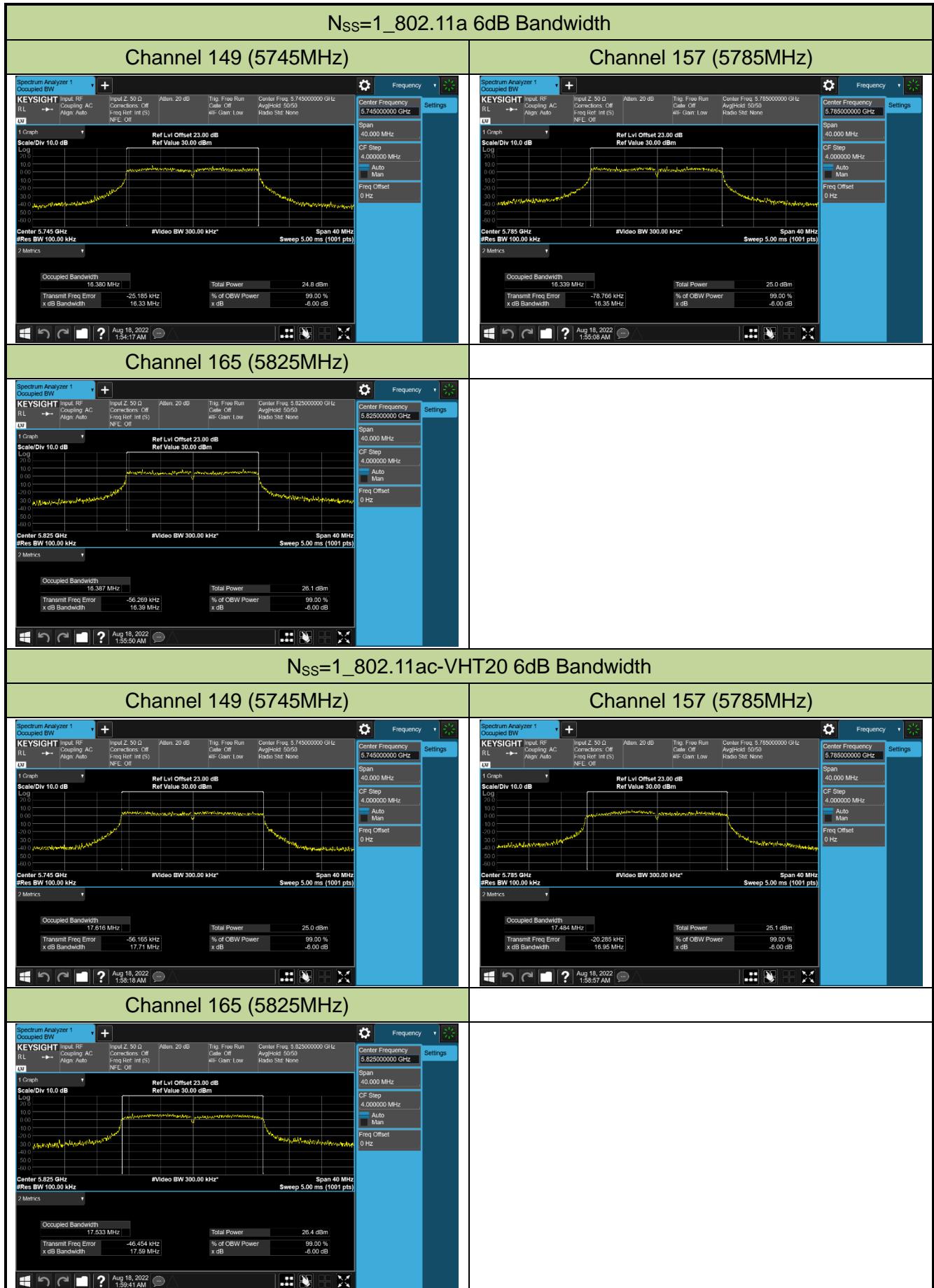
7.3.4. Test Setup

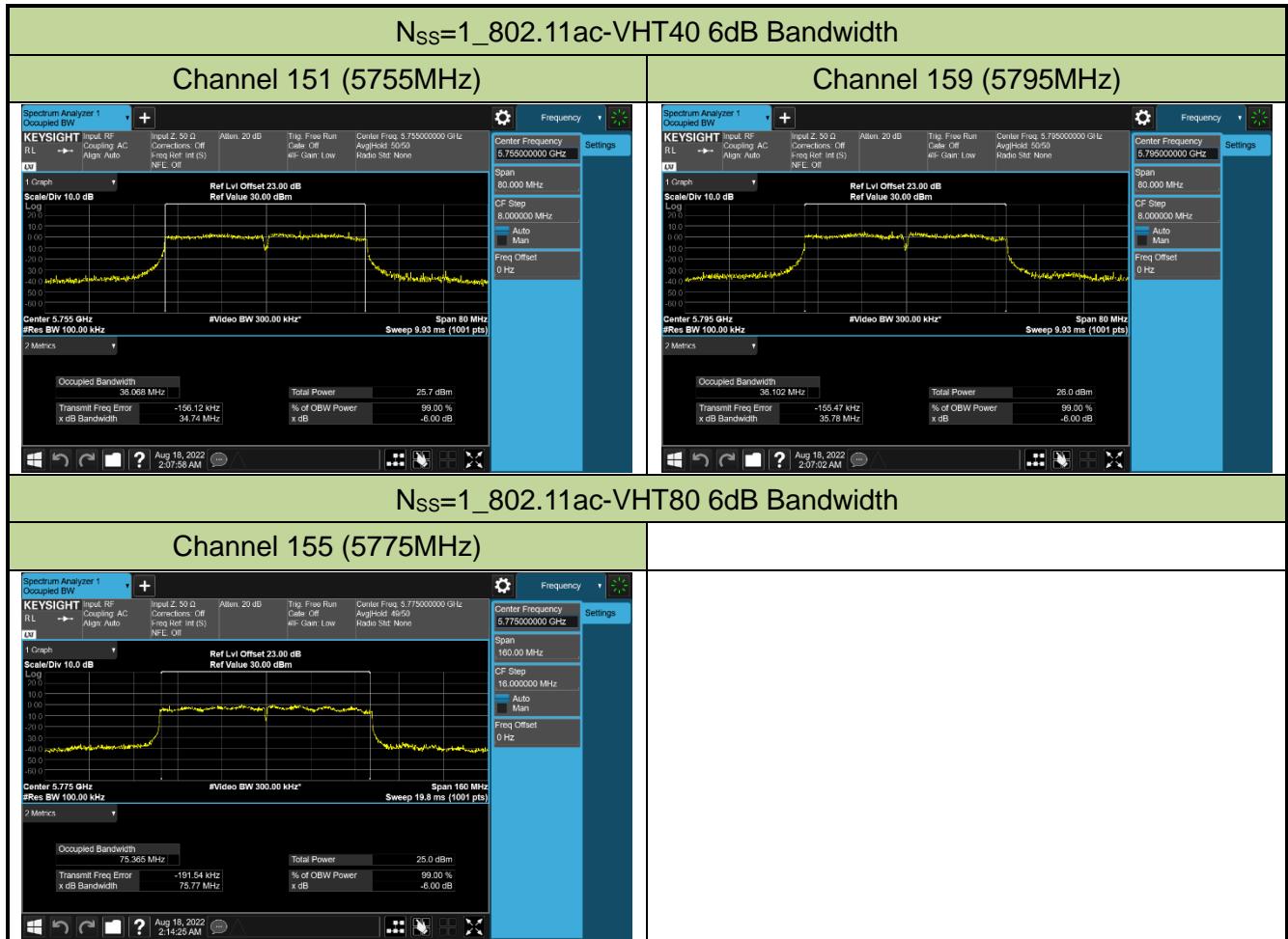


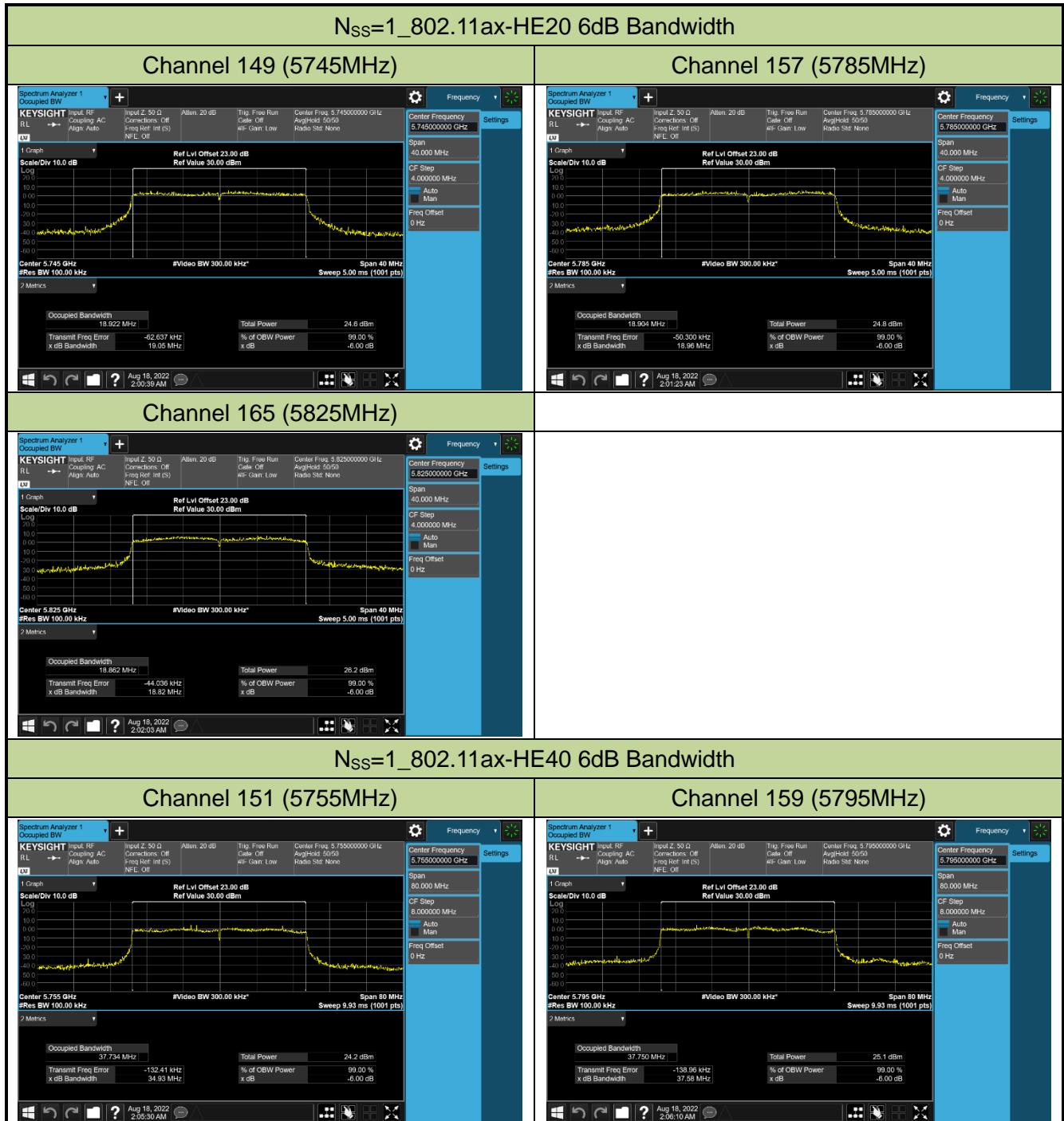
7.3.5. Test Result

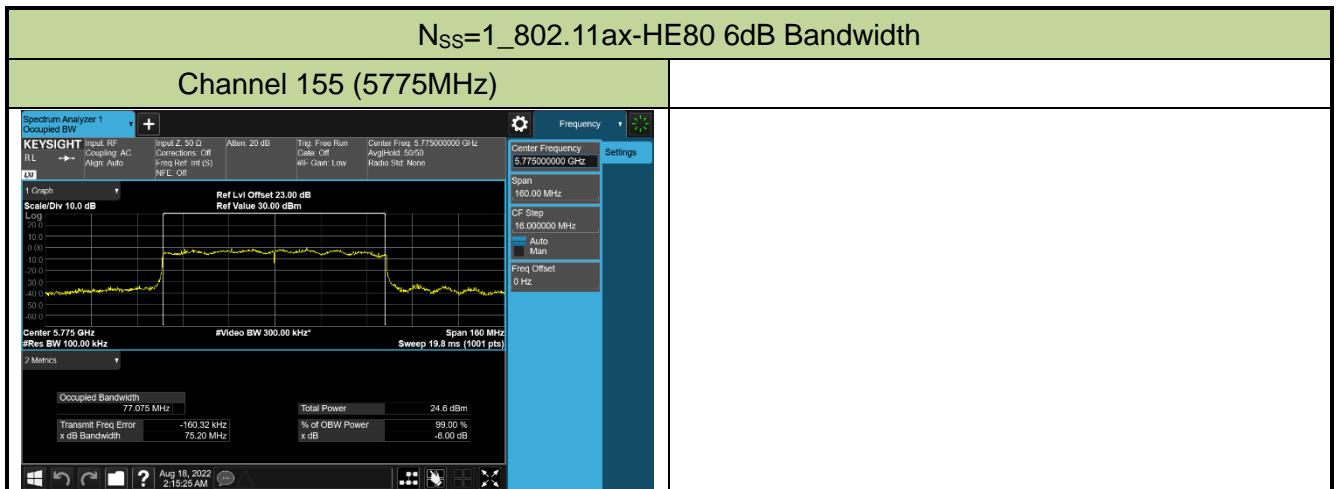
Product	AXE11000 Whole Home Mesh Wi-Fi 6E System	Test Engineer	Jay
Test Site	SR5	Test Date	2022/8/18
Test Mode	Mode 1~7		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Nss=1_Ant 6						
802.11a	6Mbps	149	5745	16.330	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.350	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.390	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.710	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	16.950	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.590	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	34.740	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	35.780	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	75.770	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	19.050	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	18.960	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	18.820	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	34.930	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	37.580	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	75.200	≥ 0.5	Pass









7.4. Output Power Measurement

7.4.1. Test Limit

For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

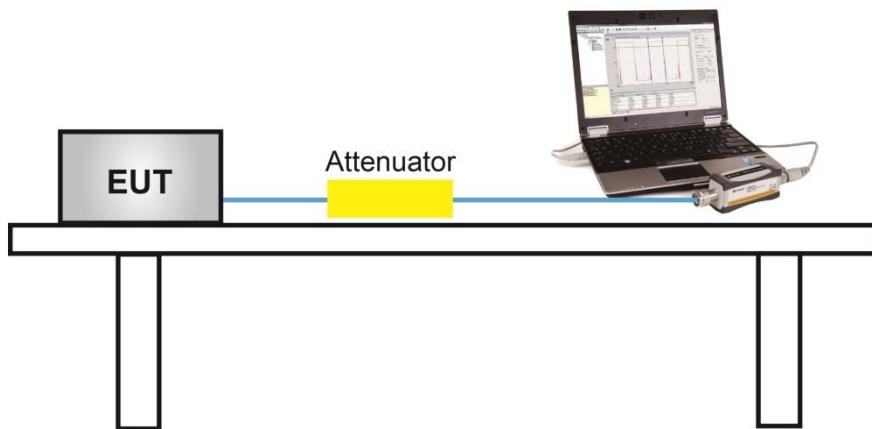
7.4.2. Test Procedure Used

KDB 789033D02v02r01- Section II) E)3)b) Method PM-G

7.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

7.4.4. Test Setup



7.4.5. Test Result

Product	AXE11000 Whole Home Mesh Wi-Fi 6E System					Test Engineer		Jay	
Test Site	SR5					Test Date		2022/8/13~2022/8/18	
Test Mode	CDD Mode_Nss=1								

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)								Total Power (dBm)	Average Power Limit (dBm)	Result
				Ant0	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant7			
11a	6Mbps	36	5180	13.32	13.13	12.72	13.61	13.30	13.21	13.43	12.78	22.23	≤ 30.00	Pass
11a	6Mbps	44	5220	12.12	12.80	12.29	12.37	12.25	12.57	11.92	12.52	21.39	≤ 30.00	Pass
11a	6Mbps	48	5240	11.42	12.92	11.91	12.43	12.24	12.52	11.99	12.42	21.28	≤ 30.00	Pass
11a	6Mbps	149	5745	20.88	20.22	20.50	20.79	20.98	20.55	21.31	19.87	29.69	≤ 30.00	Pass
11a	6Mbps	157	5785	20.13	19.60	19.55	20.75	20.81	20.42	21.25	19.83	29.36	≤ 30.00	Pass
11a	6Mbps	165	5825	19.68	20.80	20.43	20.52	20.76	19.83	22.15	19.70	29.59	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	14.38	14.17	14.48	13.93	14.18	14.63	14.60	14.42	23.39	≤ 30.00	Pass
11ac-VHT20	MCS0	44	5220	13.20	13.88	13.50	14.14	13.65	13.63	14.22	13.87	22.80	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	13.49	14.16	13.56	14.13	13.79	14.04	14.14	14.21	22.98	≤ 30.00	Pass
11ac-VHT20	MCS0	149	5745	20.49	20.77	18.73	20.28	20.07	20.62	20.78	20.48	29.35	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	20.24	20.28	19.87	20.28	20.79	19.90	21.08	19.90	29.34	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	19.82	21.13	17.51	20.70	21.40	21.04	21.77	19.85	29.60	≤ 30.00	Pass
11ac-VHT40	MCS0	38	5190	16.93	16.72	16.70	17.04	17.15	17.03	16.97	16.92	25.97	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	16.00	16.86	16.48	17.00	16.76	16.44	16.78	16.80	25.68	≤ 30.00	Pass
11ac-VHT40	MCS0	151	5755	20.75	19.34	19.75	19.65	20.32	20.10	20.22	19.75	29.04	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	20.45	20.15	17.78	20.09	20.50	20.55	21.38	19.80	29.22	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	16.82	17.01	16.93	17.40	17.37	17.31	17.13	17.28	26.19	≤ 30.00	Pass
11ac-VHT80	MCS0	155	5775	20.10	19.75	18.85	19.56	20.69	20.22	21.24	19.74	29.10	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)								Total Power (dBm)	Average Power Limit (dBm)	Result
				Ant0	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant7			
11ax-HE20	MCS0	36	5180	14.20	14.65	14.35	14.85	14.45	14.15	14.65	14.20	23.48	≤ 30.00	Pass
11ax-HE20	MCS0	44	5220	14.11	14.55	14.30	14.25	14.31	14.23	14.44	14.15	23.33	≤ 30.00	Pass
11ax-HE20	MCS0	48	5240	14.05	14.50	14.10	14.27	14.33	13.78	14.37	14.48	23.27	≤ 30.00	Pass
11ax-HE20	MCS0	149	5745	20.90	20.31	20.35	20.11	20.49	20.80	21.22	19.92	29.56	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	20.06	19.71	19.81	20.25	20.92	20.25	21.33	20.15	29.37	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	20.10	20.86	15.60	20.81	21.44	20.89	22.53	21.14	29.79	≤ 30.00	Pass
11ax-HE40	MCS0	38	5190	16.40	16.63	16.89	17.32	17.16	17.10	17.30	17.22	26.04	≤ 30.00	Pass
11ax-HE40	MCS0	46	5230	16.60	16.35	16.82	16.75	17.08	17.02	17.28	17.12	25.92	≤ 30.00	Pass
11ax-HE40	MCS0	151	5755	20.61	19.91	20.27	20.43	20.73	20.56	21.25	19.82	29.50	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	20.36	20.30	18.38	20.93	21.33	20.82	21.80	20.20	29.64	≤ 30.00	Pass
11ax-HE80	MCS0	42	5210	17.34	17.11	16.78	17.28	17.34	16.95	17.13	17.45	26.21	≤ 30.00	Pass
11ax-HE80	MCS0	155	5775	20.61	19.42	20.25	21.09	20.67	20.73	21.55	19.94	29.61	≤ 30.00	Pass

Note:

The Total Average Power (dBm) = $10^{\log \{10^{(Ant 0 \text{ Average Power } /10)} + 10^{(Ant 1 \text{ Average Power } /10)} + 10^{(Ant 2 \text{ Average Power } /10)} + 10^{(Ant 3 \text{ Average Power } /10)} + 10^{(Ant 4 \text{ Average Power } /10)} + 10^{(Ant 5 \text{ Average Power } /10)} + 10^{(Ant 6 \text{ Average Power } /10)} + 10^{(Ant 7 \text{ Average Power } /10)}\}}$.

Product	AXE11000 Whole Home Mesh Wi-Fi 6E System				Test Engineer			Jay		
Test Site	SR5				Test Date			2022/8/13~2022/8/18		
Test Mode	CDD Mode_Nss=4									

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)								Total Power (dBm)	Average Power Limit (dBm)	Result
				Ant0	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant7			
11ax-HE20	MCS0	36	5180	19.71	19.46	19.73	20.21	20.55	20.00	19.86	19.98	28.98	≤ 30.00	Pass
11ax-HE20	MCS0	44	5220	18.89	18.62	18.42	19.50	19.22	18.91	18.93	19.35	28.02	≤ 30.00	Pass
11ax-HE20	MCS0	48	5240	19.30	18.68	18.75	19.78	19.34	19.15	19.20	19.30	28.23	≤ 30.00	Pass
11ax-HE40	MCS0	38	5190	17.56	17.69	17.84	18.29	18.29	18.09	18.25	18.28	27.08	≤ 30.00	Pass
11ax-HE40	MCS0	46	5230	20.62	20.71	20.33	21.11	20.93	20.77	20.96	21.20	29.87	≤ 30.00	Pass

Note: The Total Average Power (dBm) = $10 \log \{10^{(Ant 0 \text{ Average Power} / 10)} + 10^{(Ant 1 \text{ Average Power} / 10)} + 10^{(Ant 2 \text{ Average Power} / 10)} + 10^{(Ant 3 \text{ Average Power} / 10)} + 10^{(Ant 4 \text{ Average Power} / 10)} + 10^{(Ant 5 \text{ Average Power} / 10)} + 10^{(Ant 6 \text{ Average Power} / 10)} + 10^{(Ant 7 \text{ Average Power} / 10)}\}$.

Average Power /10) + 10^(Ant 5 Average Power /10) + 10^(Ant 6 Average Power /10) + 10^(Ant 7 Average Power /10).

7.5. Transmit Power Control

7.5.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

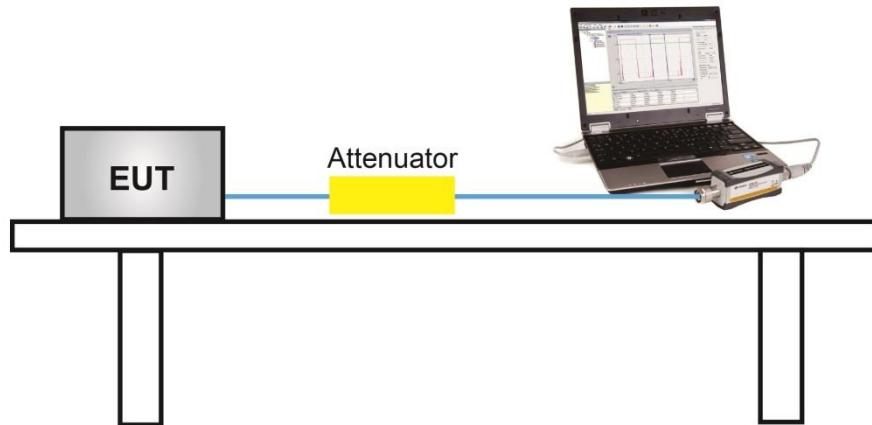
7.5.2. Test Procedure Used

KDB 789033 D02v01- Section II) E)3)b) Method PM-G

7.5.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.5.4. Test Setup



7.5.5. Test Result

Device does not support NII-2a/-2c bands, so this item is not applicable.

7.6. Power Spectral Density Measurement

7.6.1. Test Limit

For the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

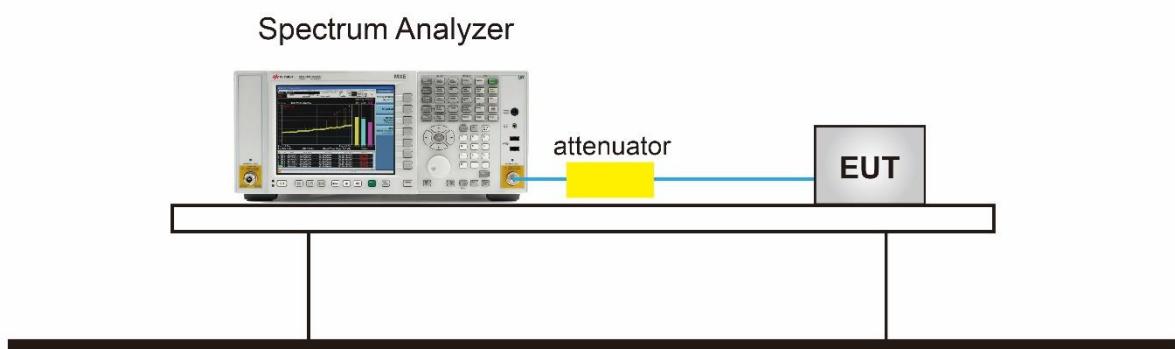
7.6.2. Test Procedure Used

KDB 789033 D02v02r01-Section II) F

7.6.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz,
RBW = 510 kHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order 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 $10 \cdot \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

7.6.4. Test Setup



7.6.5.Test Result

Product	AXE11000 Whole Home Mesh Wi-Fi 6E System							Test Engineer	Jay		
Test Site	SR5							Test Date	2022/8/10~2022/8/18		
Mode	Power Spectral Density (U-NII- 1) CDD Mode_Nss=1										

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)								Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/MHz)	Result
				Ant0	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant7				
11a	6Mbps	36	5180	2.205	2.017	1.828	2.748	2.948	2.257	2.772	2.870	95.17	11.720	≤ 11.97	Pass
11a	6Mbps	44	5220	2.108	2.069	1.696	2.518	3.156	2.239	2.890	2.535	95.17	11.670	≤ 11.97	Pass
11a	6Mbps	48	5240	2.541	2.191	1.567	2.542	2.508	2.085	2.326	2.243	95.17	11.507	≤ 11.97	Pass
11ac-VHT20	MCS0	36	5180	2.740	1.583	2.371	3.041	3.311	2.543	2.478	1.885	95.39	11.762	≤ 11.97	Pass
11ac-VHT20	MCS0	44	5220	2.725	1.809	1.910	2.389	2.995	2.407	2.665	2.431	95.39	11.668	≤ 11.97	Pass
11ac-VHT20	MCS0	48	5240	2.612	2.429	2.003	2.399	3.096	2.581	2.829	2.710	95.39	11.829	≤ 11.97	Pass
11ac-VHT40	MCS0	38	5190	2.244	1.983	1.784	2.433	2.692	2.267	2.148	2.350	92.63	11.609	≤ 11.97	Pass
11ac-VHT40	MCS0	46	5230	2.345	2.362	2.023	2.694	2.593	2.401	2.232	2.766	92.63	11.797	≤ 11.97	Pass
11ac-VHT80	MCS0	42	5210	2.167	2.022	1.829	2.670	3.230	1.867	2.455	2.830	94.93	11.666	≤ 11.97	Pass
11ax-HE20	MCS0	36	5180	2.389	2.139	2.369	2.507	2.977	2.787	3.369	2.099	94.62	11.870	≤ 11.97	Pass
11ax-HE20	MCS0	44	5220	2.532	2.035	2.056	2.544	2.983	1.978	2.428	2.562	94.62	11.673	≤ 11.97	Pass
11ax-HE20	MCS0	48	5240	2.683	2.561	2.817	1.983	2.844	2.369	3.017	2.554	94.62	11.885	≤ 11.97	Pass
11ax-HE40	MCS0	38	5190	2.232	1.909	2.393	2.871	2.723	2.600	2.519	2.844	94.59	11.794	≤ 11.97	Pass
11ax-HE40	MCS0	46	5230	2.657	2.412	2.261	2.900	2.746	2.024	2.609	3.075	94.59	11.870	≤ 11.97	Pass
11ax-HE80	MCS0	42	5210	1.828	2.327	1.761	2.623	2.889	1.896	2.789	2.809	93.61	11.645	≤ 11.97	Pass

Note 1: When EUT duty cycle < 98%,

the total PSD (dBm/MHz) = $10^{\log \{10^{(Ant 0 PSD/10)} + 10^{(Ant 1 PSD/10)} + 10^{(Ant 2 PSD/10)} + 10^{(Ant 3 PSD/10)} + 10^{(Ant 4 PSD/10)} + 10^{(Ant 5 PSD/10)} + 10^{(Ant 6 PSD/10)} + 10^{(Ant 7 PSD/10)}\}} + 10^{\log (1/Duty Cycle)(dBm/MHz)}$.

Note 2: For 5150 - 5250MHzBand: PSD Limit (dBm/MHz) = 17 - (11.03 - 6) = 11.97dBm/MHz.

Product	AXE11000 Whole Home Mesh Wi-Fi 6E System							Test Engineer		Jay		
Test Site	SR5							Test Date		2022/8/10~2022/8/17		
Mode	Power Spectral Density (U-NII- 1) CDD Mode_Nss=4											

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)								Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/MHz)	Result
				Ant0	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant7				
11ax-HE20	MCS0	36	5180	7.605	7.108	7.081	7.838	7.949	7.604	7.691	7.975	94.62	16.889	≤ 17.00	Pass
11ax-HE20	MCS0	44	5220	6.677	7.018	7.004	7.712	7.790	7.410	7.207	7.650	94.62	16.595	≤ 17.00	Pass
11ax-HE20	MCS0	48	5240	6.995	7.450	7.092	7.931	7.674	7.536	7.655	7.907	94.62	16.813	≤ 17.00	Pass
11ax-HE40	MCS0	38	5190	4.633	5.342	4.939	5.607	5.350	5.274	6.264	5.670	94.59	14.682	≤ 17.00	Pass
11ax-HE40	MCS0	46	5230	5.424	5.522	5.660	6.114	5.621	5.419	6.131	6.323	94.59	15.062	≤ 17.00	Pass

Note 1: When EUT duty cycle < 98%,

the total PSD (dBm/MHz) = $10^{\log \{10^{(Ant 0 PSD/10)} + 10^{(Ant 1 PSD/10)} + 10^{(Ant 2 PSD/10)} + 10^{(Ant 3 PSD/10)} + 10^{(Ant 4 PSD/10)} + 10^{(Ant 5 PSD/10)} + 10^{(Ant 6 PSD/10)} + 10^{(Ant 7 PSD/10)}\}} + 10^{\log (1/Duty Cycle)(dBm/MHz)}$.

Product	AXE11000 Whole Home Mesh Wi-Fi 6E System							Test Engineer		Jay	
Test Site	SR5							Test Date		2022/8/10~2022/8/18	
Test Item	Power Spectral Density (U-NII-3) CDD Mode_Nss=1										

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/510KHz)								Duty Cycle (%)	Total PSD (dBm/ 510KHz)	PSD Limit (dBm/500K Hz)	Result
				Ant0	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant7				
11a	6Mbps	149	5745	6.359	5.160	5.558	5.323	5.567	5.990	6.539	5.546	95.17	15.026	≤ 24.97	Pass
11a	6Mbps	157	5785	6.567	5.397	5.571	6.319	6.244	5.824	7.333	5.939	95.17	15.435	≤ 24.97	Pass
11a	6Mbps	165	5825	5.950	6.061	6.017	6.835	6.499	5.799	8.037	6.094	95.17	15.716	≤ 24.97	Pass
11ac-VHT20	MCS0	149	5745	6.629	5.013	6.989	5.031	6.107	5.980	7.340	6.115	95.39	15.457	≤ 24.97	Pass
11ac-VHT20	MCS0	157	5785	6.897	4.831	7.173	5.681	6.927	6.769	7.682	7.200	95.39	15.962	≤ 24.97	Pass
11ac-VHT20	MCS0	165	5825	6.758	6.770	5.206	7.336	6.850	6.421	8.711	7.112	95.39	16.229	≤ 24.97	Pass
11ac-VHT40	MCS0	151	5755	4.986	3.795	3.628	4.254	4.042	4.314	4.853	5.111	92.63	13.768	≤ 24.97	Pass
11ac-VHT40	MCS0	159	5795	4.830	3.395	3.373	4.163	4.247	4.277	5.175	4.611	92.63	13.663	≤ 24.97	Pass
11ac-VHT80	MCS0	155	5775	1.509	1.024	0.534	0.797	0.987	1.382	2.141	1.487	94.93	10.515	≤ 24.97	Pass
11ax-HE20	MCS0	149	5745	6.456	6.143	6.165	5.902	6.320	6.271	6.728	5.451	94.62	15.465	≤ 24.97	Pass
11ax-HE20	MCS0	157	5785	6.113	5.137	5.570	6.210	6.549	6.537	7.055	6.469	94.62	15.512	≤ 24.97	Pass
11ax-HE20	MCS0	165	5825	6.952	6.621	6.012	7.873	7.303	6.783	8.509	6.694	94.62	16.429	≤ 24.97	Pass
11ax-HE40	MCS0	151	5755	3.968	2.863	3.205	3.577	3.215	3.500	4.233	4.305	94.59	12.908	≤ 24.97	Pass
11ax-HE40	MCS0	159	5795	3.686	3.007	2.834	4.243	4.006	4.157	5.079	4.902	94.59	13.326	≤ 24.97	Pass
11ax-HE80	MCS0	155	5775	1.464	1.013	-0.473	1.466	1.077	1.456	1.542	2.295	93.61	10.546	≤ 24.97	Pass

Note 1: When EUT duty cycle < 98%,

the total PSD (dBm/510kHz) = $10^{\log \{10^{(Ant0 PSD/10)} + 10^{(Ant1 PSD/10)} + 10^{(Ant2 PSD/10)} + 10^{(Ant3 PSD/10)} + 10^{(Ant4 PSD/10)} + 10^{(Ant5 PSD/10)} + 10^{(Ant6 PSD/10)} + 10^{(Ant7 PSD/10)}\}} + 10^{\log (1/Duty Cycle)}$.

Note 2: PSD Limit (dBm/500kHz) = 30 - (11.03 - 6) = 24.97dBm/500kHz.

