MRT Technology (Taiwan) Co., Ltd Phone: +886-3-3288388 Web: www.mrt-cert.com Report No.: 2311TW0122-U1 Report Version: 1.0 Issue Date: 2024-01-12

MEASUREMENT REPORT (Class II Change)

FCC ID : 2AXJ4X50OD

Applicant: TP-Link Corporation Limited

Application Type: Certification

Product : AX3000 Outdoor/Indoor Mesh Wi-Fi 6 AP

Model No. : HX510-Outdoor

Brand Name : tp-link

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part15 Subpart C (Section 15.247)

Received Date : November 27, 2023

Test Date: November 28, 2023

Test By : Owen Tsai

(Owen Tsai)

Reviewed By : Paddy Chen

(Paddy Chen)

Approved By : am her

(Chenz Ker)





Testing Laboratory 3261

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 ANSI C63.10-2013. 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
2311TW0122-U1	1.0	Original Report	2024-01-12	Valid

Note:

This time, the Beamforming feature is enabled for Wi-Fi 2.4GHz / 5GHz, so the verification test for conducted power, so the FCC C2PC is executed.

FCC Original Report Grant Date: 12/19/2022, FCC ID: 2AXJ4X50OD.

Page Number: 2 of 22



CONTENTS

Des	scription	Page
1.	INTRODUCTION	6
	1.1. Scope	6
	1.2. MRT Test Location	6
2.	PRODUCT INFORMATION	7
	2.1. Feature of Equipment under Test	7
	2.2. Product Specification Subjective to this Report	7
	2.3. Working Frequencies for this report	8
	2.4. Description of Available Antennas	8
	2.5. Test Details for Class II Perssive Change	9
	2.6. Test Mode	9
	2.7. Configuration of Test System	10
	2.8. Test System Details	10
	2.9. Description of Test Software	10
	2.10. Applied Standards	11
	2.11. Test Configuration	11
	2.12. EMI Suppression Device(s)/Modifications	11
	2.13. Labeling Requirements	11
3.	DESCRIPTION of TEST	12
	3.1. Evaluation Procedure	12
	3.2. AC Line Conducted Emissions	12
	3.3. Radiated Emissions	13
4.	ANTENNA REQUIREMENTS	14
5.	TEST EQUIPMENT CALIBRATION DATE	15
6.	MEASUREMENT UNCERTAINTY	16
7.	TEST RESULT	17
	7.1. Summary	17
	7.2. Output Power Measurement	18
	7.2.1. Test Limit	18
	7.2.2. Test Procedure Used	18
	7.2.3. Test Setting	18
	7.2.4. Test Setup	18
	7.2.5. Test Result	19
8.	CONCLUSION	21



Appendix A: Test Setup Photograph	22
Appendix B : External Photograph	22
Appendix C : Internal Photograph	22



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 F 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 15.247	

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 Canada, EU and TELEC Rules.

Page Number: 5 of 22



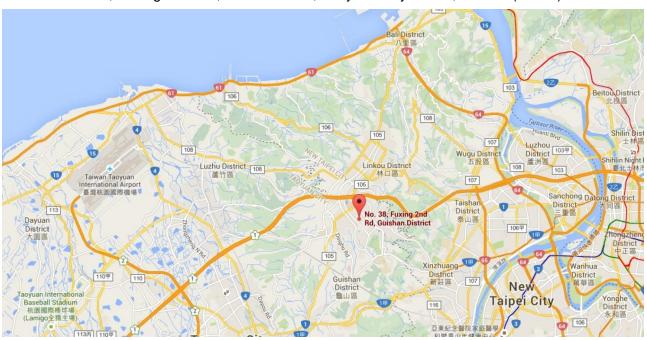
1. INTRODUCTION

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. Feature of Equipment under Test

Product Name:	AX3000 Outdoor/Indoor Mesh Wi-Fi 6 AP	
Model No.:	X510-Outdoor	
Brand Name:	tp-link	
Wi-Fi Specification:	802.11a/b/g/n/ac/ax	
EUT Identification No.:	#1-1 (Conducted)	
Power Supply:	AC100-240V~50/60Hz 0.5A	
	802.3at PoE: 42.5-57V 0.6A	

2.2. Product Specification Subjective to this Report

Frequency Range:	802.11b/g/n-HT20/ax-HE20: 2412 ~ 2462MHz
	802.11n-HT40/ax-HE40: 2422 ~ 2452MHz
Ob a serial Niversity and	802.11b/g/n-HT20/ax-HE20: 11
Channel Number:	802.11n-HT40/ax-HE40: 7
	802.11b: DSSS
Type of Modulation:	802.11g/n: OFDM
	802.11ax: OFDMA
	802.11b: 1/2/5.5/11Mbps
Data Rate:	802.11g: 6/9/12/18/24/36/48/54Mbps
	802.11n: up to 300Mbps
	802.11ax: up to 574Mbps

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

Page Number: 7 of 22



2.3. Working Frequencies for this report

802.11b/g/n-HT20/ax-HE20

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

802.11n-HT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz				

2.4. Description of Available Antennas

Antenna	Frequency	Tx	Number	Max	Max. Antenna	Beamforming	CDD Dir	ectional
Туре	Band	Paths	of	Antenna	Gain (at any	Directional	Gain	(dBi)
	(MHz)		spatial	Gain	elevation angle	Gain(dBi)	For	For
			streams	(dBi)	above 30		Power	PSD
					degrees)			
					(dBi)			
Wi-Fi Ante	enna							
	2412 ~ 2462	2	1	2.00		5.01	2.00	5.01
Dipole	5150 ~ 5250	2	1	1.00	-4.00	4.01	1.00	4.01
	5250 ~ 5850	2	1	1.00		4.01	1.00	4.01

Remark:

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

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

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

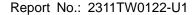
Array Gain = 10 log (N_{ANT}/N_{SS}) dB;

• For power measurements on IEEE 802.11 devices,

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

2. The EUT also supports Beam Forming mode, and the Beam Forming support 802.11ac/ax, not include

Page Number: 8 of 22





802.11a/b/g/n. BF Directional gain = G_{ANT} + 10 log (N_{ANT}).

3. All information of antenna were from the antenna specification.

Test Mode	T _X Paths	CDD Mode	Beamforming Mode
802.11b/g/n (DTS)	2	$\sqrt{}$	X
802.11ax (DTS)	2	√	√
802.11a/n (NII)	2	√	X
802.11ac/ax (NII)	2	V	V

2.5. Test Details for Class II Perssive Change

C2PC Change List	Verified Test Item	Remark
Open the Beamforming function at 802.11ac/ax of 2.4G/5Gbands via software.	Output Power	Verified power only.

Note: This product is an extension based on the FCC ID: 2AXJ4X50OD, original grant date: 12/19/2022, the changes and verified item refer to the table as above.

2.6. Test Mode

	Mode
CDD	IVIOUE

Mode 1: Transmit by 802.11b_N_{SS}=1 (1Mbps) (CDD mode)

Mode 2: Transmit by 802.11g_ N_{SS}=1 (6Mbps) (CDD mode)

Mode 3: Transmit by 802.11n-HT20_ N_{SS}=1 (MCS0) (CDD mode)

Mode 4: Transmit by 802.11n-HT40_ NSS=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)

Beamforming Mode

Mode 7: Transmit by 802.11ax-HE20_N_{SS}=1 (MCS0) (Beam-Forming mode)

Mode 8: Transmit by 802.11ax-HE40_Nss=1 (MCS0) (Beam-Forming mode)

Remark:

- For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.
- 2. This device supports 2 N_{SS} and power level of 2 N_{SS} is less than or equal to the power of 1 N_{SS} . The worst case is $N_{SS}=1$.
- Due to CDD mode was the worst mode, so all test items were evaluated under CDD mode in this report. And the RF output power setting under beamforming mode is the same as CDD mode, so

Page Number: 9 of 22

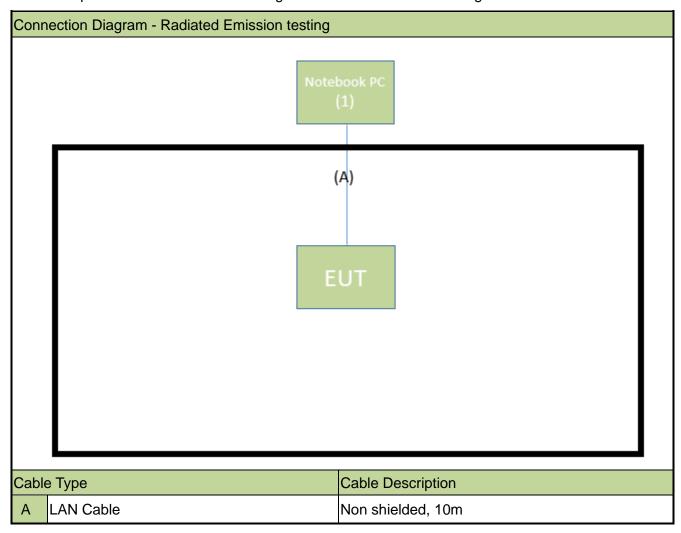


there is no additional test under beamforming mode.

4. EUT supports one configuration only in 802.11ax full RU mode.

2.7. 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.



2.8. 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	Lenovo	T450	N/A	Non-Shielded, 0.8m

2.9. Description of Test Software

The test utility software used during testing was "QDART", the version is ver1.0.67.

Page Number: 10 of 22



Note: Final power setting please refer to operational description.

2.10. 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 558074 D01v05r02
- KDB 662911 D01v02r01
- ANSI C63.10-2013

2.11. Test Configuration

The device was tested per the guidance of ANSI C63.10-2013. 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.

Page Number: 11 of 22



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 was 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, $50\Omega/50$ uH 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 that 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.

Page Number: 13 of 22



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.

Page Number: 14 of 22

Report No.: 2311TW0122-U1



5. TEST EQUIPMENT CALIBRATION DATE

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date	
X-Series USB Peak and	KEYSIGHT	U2021XA	MDTTWAGGGA	1 400	2024/4/19	
Average Power Sensor	KETSIGHT	U2U21XA	MRTTWA00014	1 year	2024/4/19	
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2024/10/17	
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2024/7/19	
Temperature & Humidity	TEN DILLION	TTH-B3UP	MDTTMAGGGG	4	2024/0/44	
Chamber	TEN BILLION		MRTTWA00036	1 year	2024/6/11	
DIVA PLUS	T-A	25 4002	MDTTMACOOFO	4	2024/0/45	
Funk-Wetterstation	TFA	35.1083	MRTTWA00050	1 year	2024/6/15	

Page Number: 15 of 22



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.

Conducted Power (Carrier Power / Power Density)

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ± 0.84dB

Temp. / Humidity

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ±0.82°C/ ±3%

Page Number: 16 of 22



7. TEST RESULT

7.1. Summary

FCC	Test	Test	Test	Test	Reference
Section(s)	Description	Limit	Condition	Result	
15.247(b)(3)	Output Power	≤ 30dBm	Conducted	Pass	Section 7.2

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.

Page Number: 17 of 22



7.2. Output Power Measurement

7.2.1.Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.2.2.Test Procedure Used

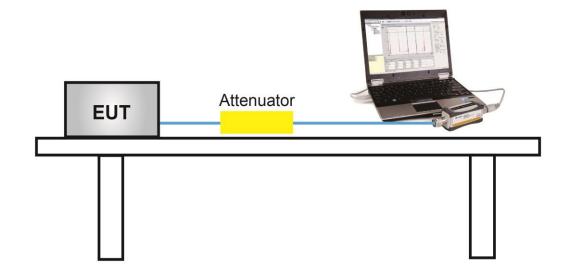
ANSI C63.10 - 2013 Section 11.9.2.3.2

7.2.3.Test Setting

Average Power Measurement

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.

7.2.4.Test Setup





7.2.5.Test Result

Product	AX3000 Outdoor/Indoor Mesh Wi-Fi 6 AP	Temperature	25°C
Test Engineer	Xuan Yu	Relative Humidity	54%
Test Site	SR6	Test Date	2023/11/28

Test Mode	Data Rate/	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power	Limit (dBm)	Result
				Ant 0	Ant 1	(dBm)		
802.11b	1Mbps	01	2412	24.69	24.33	27.52	≤ 30.00	Pass
802.11b	1Mbps	06	2437	25.31	24.80	28.07	≤ 30.00	Pass
802.11b	1Mbps	11	2462	24.18	23.88	27.04	≤ 30.00	Pass
802.11g	6Mbps	01	2412	21.79	21.22	24.52	≤ 30.00	Pass
802.11g	6Mbps	02	2417	22.11	22.54	25.34	≤ 30.00	Pass
802.11g	6Mbps	06	2437	24.70	24.12	27.43	≤ 30.00	Pass
802.11g	6Mbps	10	2457	22.88	22.91	25.91	≤ 30.00	Pass
802.11g	6Mbps	11	2462	20.22	20.05	23.15	≤ 30.00	Pass
802.11n-HT20	MCS0	01	2412	21.33	21.65	24.50	≤ 30.00	Pass
802.11n-HT20	MCS0	02	2417	22.56	23.10	25.85	≤ 30.00	Pass
802.11n-HT20	MCS0	06	2437	25.89	25.55	28.73	≤ 30.00	Pass
802.11n-HT20	MCS0	10	2457	22.78	22.42	25.61	≤ 30.00	Pass
802.11n-HT20	MCS0	11	2462	21.60	21.98	24.80	≤ 30.00	Pass
802.11n-HT40	MCS0	03	2422	21.01	20.97	24.00	≤ 30.00	Pass
802.11n-HT40	MCS0	06	2437	22.66	22.54	25.61	≤ 30.00	Pass
802.11n-HT40	MCS0	09	2452	21.58	21.31	24.46	≤ 30.00	Pass
802.11ax-HE20	MCS0	01	2412	20.47	20.41	23.45	≤ 30.00	Pass
802.11ax-HE20	MCS0	02	2417	21.79	22.11	24.96	≤ 30.00	Pass
802.11ax-HE20	MCS0	06	2437	24.56	24.25	27.42	≤ 30.00	Pass
802.11ax-HE20	MCS0	10	2457	22.85	22.21	25.55	≤ 30.00	Pass
802.11ax-HE20	MCS0	11	2462	22.08	22.18	25.14	≤ 30.00	Pass
802.11ax-HE40	MCS0	03	2422	22.11	21.60	24.87	≤ 30.00	Pass
802.11ax-HE40	MCS0	06	2437	22.51	22.30	25.42	≤ 30.00	Pass
802.11ax-HE40	MCS0	09	2452	21.68	21.88	24.79	≤ 30.00	Pass

Note: Total Average Power (dBm) = 10*log {10^(Ant 0 Average Power /10) +10^(Ant 1 Average Power /10)}



Test Mode	Data Rate/	Channel	Freq.	Ant 0	Ant 1	Total	Limit	Result
	MCS	No.	(MHz)	Average	Average	Average	(dBm)	
				Power (dBm)	Power (dBm)	Power (dBm)		
Beamforming Mod	е							
802.11ax-HE20	MCS0	01	2412	20.47	20.41	23.45	≤ 30.00	Pass
802.11ax-HE20	MCS0	02	2417	21.79	22.11	24.96	≤ 30.00	Pass
802.11ax-HE20	MCS0	06	2437	24.56	24.25	27.42	≤ 30.00	Pass
802.11ax-HE20	MCS0	10	2457	22.85	22.21	25.55	≤ 30.00	Pass
802.11ax-HE20	MCS0	11	2462	22.08	22.18	25.14	≤ 30.00	Pass
802.11ax-HE40	MCS0	03	2422	22.11	21.60	24.87	≤ 30.00	Pass
802.11ax-HE40	MCS0	06	2437	22.51	22.30	25.42	≤ 30.00	Pass
802.11ax-HE40	MCS0	09	2452	21.68	21.88	24.79	≤ 30.00	Pass

Note: Total Average Power (dBm) = 10*log {10^(Ant 0 Average Power /10) +10^(Ant 1 Average Power /10)}

Page Number: 20 of 22



8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is compliance with Part 15C of the FCC Rules.

Page Number: 21 of 22



Appendix A: Test Setup Photograph

Refer to "2311TW0122-UT" file.

Appendix B : External Photogra

Refer to "2311TW0122-UE" file.

Appendix	C	Internal	Photogra	ph
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Refer to "2311TW0122-UI" file.		
	The End	