



FCC Radio Test Report

FCC ID: 2AXJ4EAP610V2

The worst cases of radiated emissions and maximum output power have been re-evaluated by sample of FCC ID: 2AXJ4EAP610V2, model name: EAP610. Meanwhile, the other test data were reissue from the FCC ID: 2AXJ4EAP620HDV3, model name: EAP620 HD. The test data of radiated emissions and maximum output power please see the Appendix A, Appendix B and Appendix C. Model difference(s): Only differ in DDR.

This report concerns: Original Grant

Project No. : 2111C164A

Equipment: AX1800 Ceiling Mount Wi-Fi 6 Access Point

Brand Name : tp-link
Test Model : EAP610
Series Model : N/A

Applicant: TP-Link Corporation Limited

Address : Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road,

Tsim Sha Tsui, Kowloon, Hong Kong

Manufacturer : TP-Link Corporation Limited

Address : Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road,

Tsim Sha Tsui, Kowloon, Hong Kong

Date of Receipt : Feb. 28, 2022

Date of Test : Mar. 01, 2022 ~ Mar. 14, 2022

Issued Date : Mar. 25, 2022

Report Version : R00

Test Sample: Engineering Sample No.: DG2022020722 for maximum output power,

DG2022020723 for radiated emissions.

Standard(s): FCC CFR Title 47, Part 15, Subpart E

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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ilac-MRA



TESTING CERT #5123.02

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any agency of the U.S. Government.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REPORT ISSUED HISTORY

Report No.	ort No. Version Description		Issued Date	Note
BTL-FCCP-2-2111C164A	R00	Original Report	Mar. 25, 2022	Valid



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart E								
Standard(s) Section	Test Item	Test Result	Judgment	Remark				
15.207 15.407(b)	AC Power Line Conducted Emissions		PASS	NOTE (5)				
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX A APPENDIX B	PASS	NOTE (5)				
15.407(a) 15.407(e)	Spectrum Bandwidth		PASS	NOTE (5)				
15.407(a)	Maximum Output Power	APPENDIX C	PASS	NOTE (5)				
15.407(a)	Power Spectral Density		PASS	NOTE (5)				
15.407(g)	Frequency Stability		PASS	NOTE (5)				
15.203	Antenna Requirements		PASS	NOTE (2)				
15.407(c)	Automatically Discontinue Transmission		PASS	NOTE (3)				

Note:

(1	I)	"N/A"	denotes	test is	not	ap	plicable	in:	this	test	rep	port	
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- (2) The device which used a permanently attached antenna was considered sufficient to comply with the provisions of 15.203.
- (3) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

(4)	For UNII-1 this device was functioned as a
	☐ Outdoor access point device
	☐ Fixed point-to-point access points device
	☐ Client device
(5)	Reissue from the FCC ID: 2AXJ4EAP620HDV3. Report No.: BTL-FCCP-2-2111C164



1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

BTL's Registration Number for FCC: 357015 BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))
The BTL measurement uncertainty as below table:

A. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.36	
		30MHz ~ 200MHz		Н	3.32
		200MHz ~ 1,000MHz		V	4.08
		200MHz ~ 1,000MHz	Н	3.96	

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03	303 CISPR	1GHz ~ 6GHz	3.80
(3m)	CISPR	6GHz ~ 18GHz	4.82

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03	O3 CISPR	18 ~ 26.5 GHz	3.62
(1m)	CISPR	26.5 ~ 40 GHz	4.00

B. Other Measurement:

Test Item	Uncertainty
Maximum Output Power	±0.95 dB

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Radiated Emissions-30MHz to 1000MHz	22°C	58%	AC 120V/60Hz	Chen Mo
Radiated Emissions-Above 1000 MHz	26°C	52%	AC 120V/60Hz	Chen Mo
Maximum Output Power	22.2°C-22.7°C	55%-57.7%	AC 120V/60Hz	Longdage Feng



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1800 Ceiling Mount Wi-Fi 6 Access Point		
Brand Name	tp-link		
Test Model	EAP610		
Series Model	N/A		
Model Difference(s)	N/A		
Power Source	1# DC Voltage supplied from AC adapter. Model:T120150-2B1 2# Supplied from PoE.		
Power Rating	1# I/P:100-240V~ 50/60Hz 0.6A O/P:12V === 1.5A 2# 802.3at PoE: 42.5-57V === 0.6A		
Operation Frequency Band(s)	UNII-1: 5150 MHz~5250 MHz UNII-3: 5725 MHz~5850 MHz		
Modulation Type	IEEE 802.11a/n/ac: OFDM IEEE 802.11ax: OFDMA		
Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ac: up to 866.7 Mbps IEEE 802.11ax: up to 1201 Mbps		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

anner List:							
IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)			
UNII-1		UNII-1		UNII-1			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
36	5180	38	5190	42	5210		
40	5200	46	5230				
44	5220						
48	5240						



IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-3		UN	II-3	UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	tp-link	N/A	PIFA	N/A	3
2	tp-link	N/A	PIFA	N/A	3

Note

- 1) This EUT supports CDD, and all antennas have the same gain, Directional gain = G_{ANT} +Array Gain. For power measurements, Array Gain=0dB ($N_{ANT} \le 4$), so the Directional gain=3 dBi. For power spectral density measurements, $N_{ANT} = 2$, $N_{SS} = 1$. So the Directional gain= G_{ANT} +Array Gain= G_{ANT} +10log(N_{ANT} / N_{SS})dBi=3+10log(2/1)dBi=6.01 dBi. Then, the UNII-1 power spectral density limit is 17-(6.01-6)=16.99, the UNII-3 power spectral density limit is 30-(6.01-6)=29.99.
- 2) Beamforming Gain: 3dB. Then Directional gain=3+3=6 dBi.
- 3) The antenna gain and beamforming gain are provided by the manufacturer.

4. Table for Antenna Configuration:

For Non Beamforming:

Operating Mode TX Mode	2TX
IEEE 802.11a	V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)	V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT20)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT80)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE80)	V (Ant. 1 + Ant. 2)



For Beamforming:

Operating Mode TX Mode	2TX	
IEEE 802.11n(HT20)	V (Ant. 1 + Ant. 2)	
IEEE 802.11n(HT40)	V (Ant. 1 + Ant. 2)	
IEEE 802.11ac(VHT20)	V (Ant. 1 + Ant. 2)	
IEEE 802.11ac(VHT40)	V (Ant. 1 + Ant. 2)	
IEEE 802.11ac(VHT80)	V (Ant. 1 + Ant. 2)	
IEEE 802.11ax(HE20)	V (Ant. 1 + Ant. 2)	
IEEE 802.11ax(HE40)	V (Ant. 1 + Ant. 2)	
IEEE 802.11ax(HE80)	V (Ant. 1 + Ant. 2)	



2.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX AC (VHT20) Mode / CH48, CH157
Mode 2	TX AX (HE20) Mode / CH165
Mode 3	TX AX (HE40) Mode / CH38

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

Radiated emissions test - 30 MHz to 1000 MHz			
Final Test Mode	Description		
Mode 1	TX AC (VHT20) Mode / CH48		

Radiated emissions test - Above 1GHz_Non Beamforming				
Final Test Mode	Description			
Mode 2	TX AX (HE20) Mode / CH165			
Mode 3	TX AX (HE40) Mode / CH38			

Maxmum Output Power test_Non Beamforming			
Final Test Mode	Description		
Mode 1	TX AC (VHT20) Mode / CH48		

Maxmum Output Power test_Beamforming				
Final Test Mode	Description			
Mode 1	TX AC (VHT20) Mode / CH157			

Note

- (1) For radiated emission above 1 GHz test, 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- (3) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.
- (4) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.

2.3 TEST SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

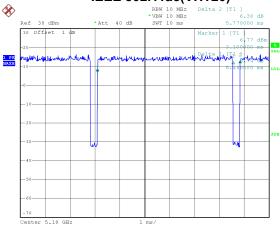
Test Software Version QSPR v 5.0-00188
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2.4 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered. The output power = measured power + duty factor.



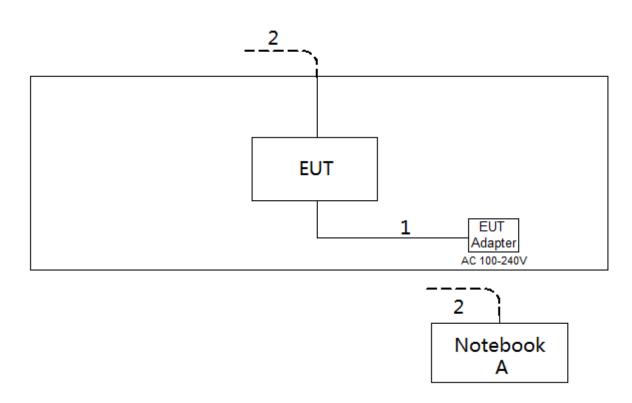


Date: 15.MAR.2022 10:06:35

Duty cycle = 5.480 ms / 5.770 ms = 94.97% Duty Factor = 10 log(1 / Duty cycle) = 0.22



2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
Α	Notebook	Dell	Inspiron 15-7559	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m





3. RADIATED EMISSIONS TEST

3.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (30 MHz to 1000 MHz)

	,	
Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS (Above 1000 MHz)

		20 (
Frequency	EIRP Limit	Equivalent Field Strength at 3m
(MHz)	(dBm/MHz)	(dBµV/m)
5150-5250	-27	68.2
	-27	68.2
5725-5850	10	105.2
NOTE (2)	15.6	110.8
	27	122.2

NOTE:

(1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$
 µV/m, where P is the eirp (Watts)

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

3.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- h. For the actual test configuration, please refer to the related Item –EUT Test Photos.



The following table is the setting of the receiver:

Spectrum Parameters	Setting			
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz			

Spectrum Parameters	Setting				
Start Frequency	1000 MHz				
Stop Frequency	10th carrier harmonic or 40 GHz, whichever is lower				
RBW / VBW	1 MHz / 3 MHz for PK value				
(Emission in restricted band)	1 MHz / 1/T Hz for AVG value				

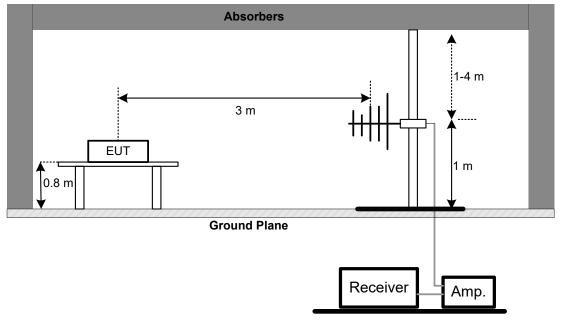
Receiver Parameters	Setting			
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector			
Start ~ Stop Frequency	1 GHz~40 GHz for PK/AVG detector			

3.3 DEVIATION FROM TEST STANDARD

No deviation

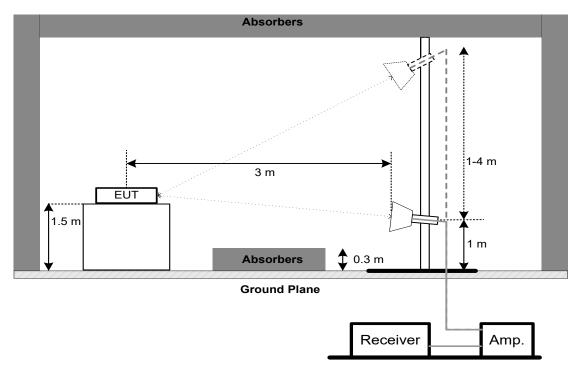
3.4 TEST SETUP

30 MHz to 1 GHz









3.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS - 30 MHz to 1000 MHz

Please refer to the APPENDIX A.

3.7 TEST RESULTS - ABOVE 1000 MHz

Please refer to the APPENDIX B.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.



4. MAXIMUM OUTPUT POWER

4.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Maximum Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (23.98 dBm)	5150-5250
, ,	·	1 Watt (30dBm)	5725-5850

Note:

a. For an indoor access point operating in 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. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

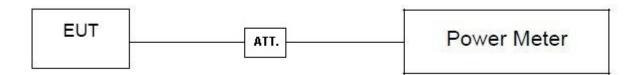
4.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. Test test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS

Please refer to the APPENDIX B.



5. MEASUREMENT INSTRUMENTS LIST

	Radiated Emissions - 30 MHz to 1000 MHz									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 15, 2022					
2	Amplifier	HP	8447D	2944A08742	Jan. 22, 2023					
3	Cable	emci	LMR-400	N/A	Nov. 30, 2022					
4	Controller	CT SC100		N/A	N/A					
5	Controller	MF	MF-7802	MF780208416	N/A					
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A					
7	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023					
8	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022					

	Radiated Emissions - Above 1 GHz									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	Double Ridged Horn Antenna	ARA	DRG-118A	16554	Apr. 21, 2022					
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022					
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022					
4	Controller	CT	SC100	N/A	N/A					
5	Controller	MF	MF-7802	MF780208416	N/A					
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023					
7	EXA Spectrum Analyzer	Keysight	N9010A	MY56480488	Jan. 22, 2023					
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 16, 2022					
9	Cable	N/A	A81-SMAMSMAM- 12.5M	N/A	Oct. 15, 2022					
10	Cable	Talent microwave	A40-2.92M2.92M-2. 5M	N/A	Nov. 30, 2022					
11*	Band Reject Filter	Micro-Tronics	BRC50703-01	7	Feb. 27, 2024					
12*	Band Reject Filter	Micro-Tronics	BRC50705-01	10	Feb. 27, 2024					
13	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A					
14	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022					

	Maximum Output Power									
Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated u										
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jul. 10, 2022					
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jul. 10, 2022					
3	Attenuator	WOKEN	6SM3502	VAS1214NL	N/A					
4	RF Cable	Tongkaichuan	N/A	N/A	N/A					

Remark: "N/A" denotes no model name, serial no. or calibration specified.

"*" calibration period of equipment list is three year.

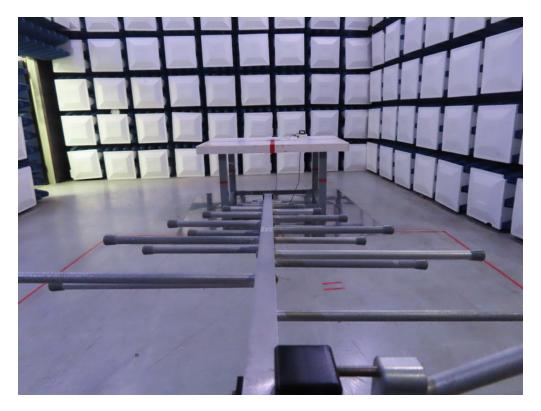
Except * item, all calibration period of equipment list is one year.

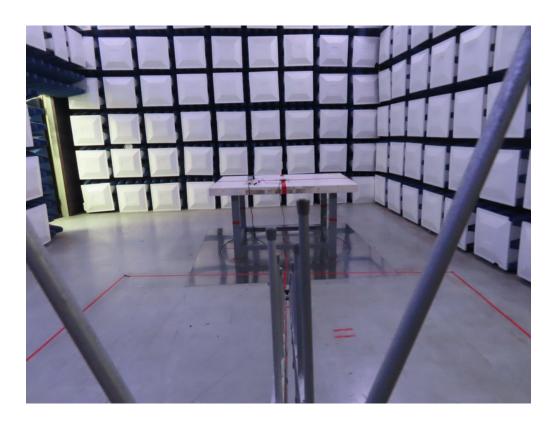


6. EUT TEST PHOTOS

Radiated Emissions Test Photos

30 MHz to 1000 MHz







Radiated Emissions Test Photos

Above 1 GHz

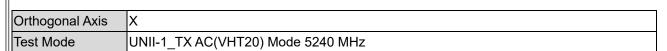


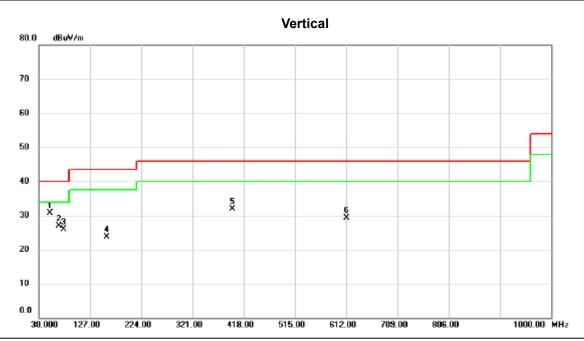




APPENDIX A - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	



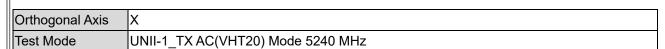


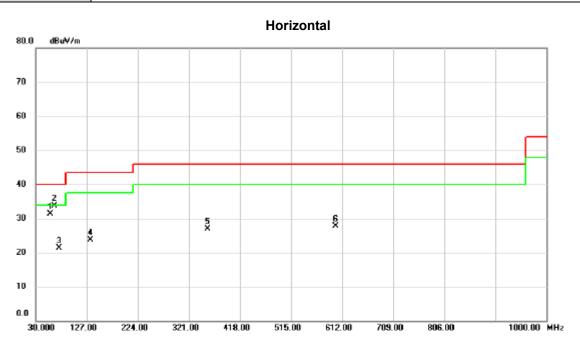


	No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
•	1 *	50.855	43.74	-12.95	30.79	40.00	-9.21	peak	
•	2	67.830	40.56	-13.64	26.92	40.00	-13.08	peak	
	3	76.560	41.08	-15.26	25.82	40.00	-14.18	peak	
	4	158.525	36.46	-12.74	23.72	43.50	-19.78	peak	
	5	397.145	41.18	-9.23	31.95	46.00	-14.05	peak	
	6	612.970	34.52	-5.14	29.38	46.00	-16.62	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.







MHz dBuV dB dBuV/m dBuV/m dB Detector Comment 1 57.645 44.17 -12.96 31.21 40.00 -8.79 peak 2 * 65.405 47.18 -13.43 33.75 40.00 -6.25 peak 3 75.105 36.27 -14.94 21.33 40.00 -18.67 peak 4 133.790 37.81 -14.20 23.61 43.50 -19.89 peak 5 356.405 37.07 -10.19 26.88 46.00 -19.12 peak 6 599.875 33.21 -5.46 27.75 46.00 -18.25 peak	No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
2 * 65.405		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
3 75.105 36.27 -14.94 21.33 40.00 -18.67 peak 4 133.790 37.81 -14.20 23.61 43.50 -19.89 peak 5 356.405 37.07 -10.19 26.88 46.00 -19.12 peak	1	57.645	44.17	-12.96	31.21	40.00	-8.79	peak	
4 133.790 37.81 -14.20 23.61 43.50 -19.89 peak 5 356.405 37.07 -10.19 26.88 46.00 -19.12 peak	2 *	65.405	47.18	-13.43	33.75	40.00	-6.25	peak	
5 356.405 37.07 -10.19 26.88 46.00 -19.12 peak	3	75.105	36.27	-14.94	21.33	40.00	-18.67	peak	
	4	133.790	37.81	-14.20	23.61	43.50	-19.89	peak	
6 599.875 33.21 -5.46 27.75 46.00 -18.25 peak	5	356.405	37.07	-10.19	26.88	46.00	-19.12	peak	
	6	599.875	33.21	-5.46	27.75	46.00	-18.25	peak	

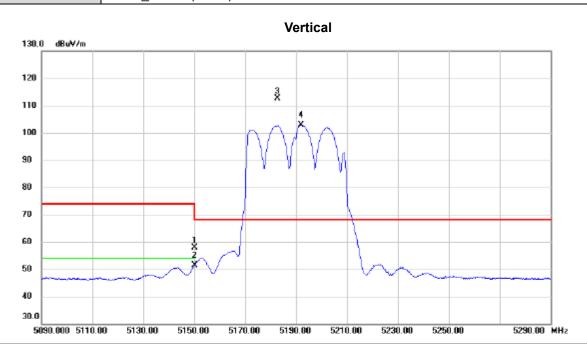
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



APPENDIX B - RADIATED EMISSION - ABOVE 1000 MHZ



Orthogonal Axis	X
Test Mode	UNII-1 TX AX (HE40) Mode 5190 MHz

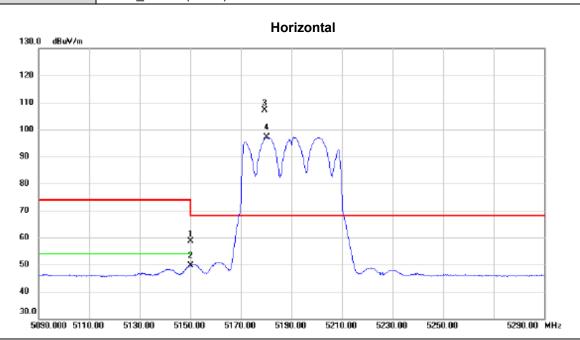


No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	41.68	16.28	57.96	74.00	-16.04	peak	
2		5150.000	35.12	16.28	51.40	54.00	-2.60	AVG	
3	*	5182.600	96.42	16.32	112.74	68.20	44.54	peak	No Limit
4	Х	5192.000	86.53	16.33	102.86	68.20	34.66	AVG	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



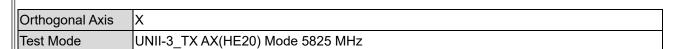
Orthogonal Axis	X
Test Mode	UNII-1 TX AX (HE40) Mode 5190 MHz

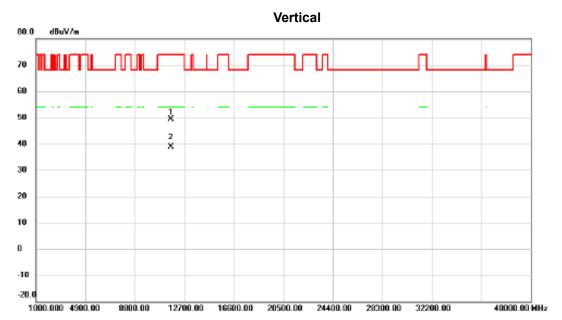


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	42.27	16.28	58.55	74.00	-15.45	peak	
2		5150.000	33.27	16.28	49.55	54.00	-4.45	AVG	
3	*	5179.400	90.73	16.32	107.05	68.20	38.85	peak	No Limit
4	X	5180.400	80.83	16.32	97.15	68.20	28.95	AVG	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



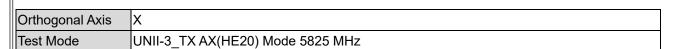


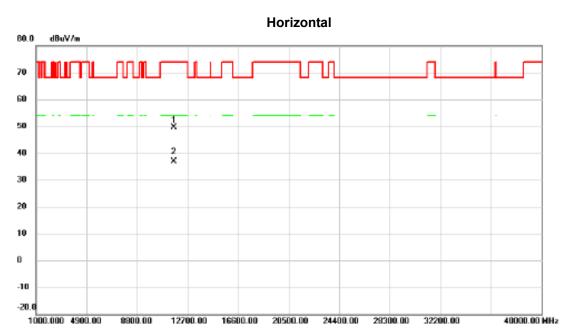


No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1164	9.400	34.54	14.78	49.32	74.00	-24.68	peak	
2	×	1164	9.400	24.11	14.78	38.89	54.00	-15.11	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.







No.	Mk.	. Freq.			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	1649.400	34.74	14.78	49.52	74.00	-24.48	peak	
2	* 1	1649.400	22.22	14.78	37.00	54.00	-17.00	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX	C - MAXIMUM OUTPUT POWER





Non Beamforming

Test Mode UNII-1_TX AC(VHT20) Mode_Ant.	1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
48	5240	22.06	0.22	22.28	30.00	1.0000	Complies

Test Mode UNII-1_TX AC(VHT20) Mode_Ant. 2

Channe	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
48	5240	21.86	0.22	22.08	30.00	1.0000	Complies

Test Mode	UNII-1_TX AC(VHT20) Mode_Total
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Channe	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
48	5240	25.20	30.00	1.0000	Complies





Beamforming

Test Mode	UNII-3_TX AC(VHT20) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
157	5785	21.68	0.22	21.90	30.00	1.0000	Complies

Test Mode UNII-3_TX AC(VHT20) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
157	5785	22.08	0.22	22.30	30.00	1.0000	Complies

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
157	5785	25.12	30.00	1.0000	Complies

End of Test Report