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Report No.: UNIA24030716ER-62

FCC RADIO TEST REPORT

FCC ID: 2BBAWPFD-002

Sample : Automatic Pet Feeder

Trade Mark : N/A

Main Model: PFD-002 PRO

Additional Model: PTM-701

Report No. : UNIA24030716ER-62

Prepared for

Shenzhenbenfendianzishangwuyouxiangongsi MinZhi JieDao ZhangKengSheQu XiangNanSiQu 25 Dong 703 Shenzhen Shi LongHua Qu, Shenzhen, China

Prepared by

Shenzhen United Testing Technology Co., Ltd.

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深圳市优耐检测技术有限公司 Shenzhen United Testing Technology Co.,Ltd.

Report No.: UNIA24030716ER-62

TEST RESULT CERTIFICATION

Applicant:	Shenzhenbenfendianzishangwuyouxiangongsi			
Address:	MinZhi JieDao ZhangKengSheQu XiangNanSiQu 25 Dong 703 Shenzhen Shi LongHua Qu, Shenzhen, China			
Manufacturer:	Shenzhen Ipetmon Creative Technology Co., Ltd.			
Address:	5th Floor, Building B, Honghengtai High-tech Park, Shangcun, Gongming Street, Guangming District, Shenzhen			
Product description	in in in			

Product:	Automatic Pet Feeder	
Trade Mark:	N/A	
Model Name:	PFD-002 PRO, PTM-701	
Test Methods:	FCC Rules and Regulations Part 15 Subpar ANSI C63.10: 2013	t C Section 15.247

This device described above has been tested by Shenzhen United Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval, this document may be altered or revised by Shenzhen United Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

Date of Test

Date (s) of performance of tests	:
Date of Issue	:
Test Result	:

Mar. 08, 2024 ~ Mar. 15, 2024 Mar. 16, 2024 Pass

Prepared by:

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Jason Ye/Editor

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Kelly Cheng/Supervisor

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Reviewer:

Approved & Authorized Signer:

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1.1 TEST PROCEDURES AND RESULTS

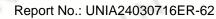
Item	FCC Rules	Description Of Test	Result
1	FCC Part 15.207	Conducted Emission	Pass
2	FCC Part 15.209(a)	Radiated Emission	Pass

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Note:

"N/A" denotes test is not applicable in this Test Report.

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1.2 TEST FACILITY

Test Firm : Shenzhen United Testing Technology Co., Ltd.
Address : D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community, Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

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The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

A2LA Certificate Number: 4747.01 The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 674885 The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 31584

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.



1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
UNI	ANSI	9kHz ~ 150kHz	2.96
	ANSI	150kHz ~ 30MHz	2.44

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	
		9kHz ~ 30MHz	2.50	
UNI ANSI	30MHz ~ 1000MHz	4.80		
		1000MHz ~ 18000MHz	4.13	

C. RF Conducted Method:

Item	Measurement Uncertainty
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_{c} = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

1.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

	NORMAL CONDITIONS	EXTREME CONDITIONS						
Temperature range ($^{\circ}$ C)	15 - 35	-20 - 50						
Relative humidty range	20 % - 75 %	20 % - 75 %						
Pressure range (kPa)	86 - 106	86 - 106						
Note: The Extreme Temperat	Note: The Extreme Temperature and Extreme Valtages dealared by the manufacturer							

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product:	Automatic Pet Feeder
Trade Mark:	N/A
Main Model:	PFD-002 PRO
Additional Model:	PTM-701
Model Difference:	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: PFD-002 PRO.
Operation Frequency:	802.11b/g/n20:2412~2462MHz 802.11n40: 2422~2452MHz
Number of Channels:	802.11b/g/n20: 11CH 802.11n40: 7CH
Maximum Peak Conducted Output Power:	15.80 dBm
Modulation Type:	CCK, OFDM, DBPSK, DAPSK
Antenna Type:	PCB Antenna
Antenna Gain:	1.95dBi
Adapter:	Model: PSD15-5W-0501000US Input: AC 100-240V, 50/60Hz, 0.15A Max Output: DC 5.0V, 1000mA
Battery:	N/A
Power Source:	DC 5V from adapter or DC 6.0V from battery
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2.2 CARRIER FREQUENCY OF CHANNELS

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	Channel List for 802.11b/g/n(HT20)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452	, N	

	Channel List for 802.11n(40MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	05	2432	07	2442	09	2452
04	2427	06	2437	08	2447	<u> </u>	4

2.3 TEST MODE

The EUT was programmed to be in continuously transmitting mode.

Channel List for 802.11b/g/n((HT20)						
Test Channel	nannel EUT Channel Test					
Low	CH01	2412				
Middle	CH06	2437				
High	CH11	2462				

Channel List for 802.11n(40MHz)						
Test Channel	EUT Channel	Test Frequency (MHz)				
Low	CH03	2422				
Middle	CH06	2437				
High	CH09	2452				

2.4 DESCRIPTION OF THE TEST MODES

During the measurement the environmental conditions were within the listed ranges:

	Normal Voltage	DC 6V
Voltage	High Voltage	DC 6.6V
	Low Voltage	DC 5.4V
	Normal Temperature	24°C
Other	Relative Humidity	55 %
	Air Pressure	989 hPa

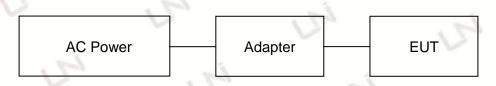
Note: All modes were test at Normal Voltage, High Voltage, and Low Voltage, only the worst results of Normal Voltage was reported in the test report.



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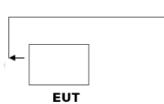
2.5 TEST SETUP

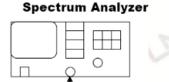
Operation of EUT during Radiation testing:



RF Cable

Operation of EUT during RF Conducted testing:





2.6 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model No.	Cable Length(cm)	Remark
1	Automatic Pet Feeder	PFD-002 PRO	1.5m	EUT
Not	o:			

Note:

1. The support equipment was authorized by Declaration of Confirmation.

2. All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

2.7 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until					
		Conduction Emi	ssions Measuremer	nt						
1	Conducted Emission Test Software	EZ-EMC	Ver.CCS-3A1-CE	N/A	N/A					
2	AMN	Schwarzbeck	NNLK8121	8121370	2024.06.11					
3	AAN	TESEQ	T8-Cat6	38888	2024.06.11					
4	Pulse Limiter	CYBRTEK	EM5010	E115010056	2024.06.11					
5	EMI Test Receiver	Rohde&Schwarz	ESCI	101210	2024.06.11					
	Radiated Emissions Measurement									
1	Radiated Emission Test Software	EZ-EMC	Ver.CCS-03A1	N/A	N/A					
2	Horn Antenna	Sunol	DRH-118	A101415	2025.07.14					
3	Broadband Hybrid Antenna	Sunol	JB1	A090215	2025.07.28					
4	PREAMP	HP	8449B	3008A00160	2024.06.11					
5	PREAMP	HP	8447D	2944A07999	2024.06.11					
6	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2024.06.11					
7	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2024.06.11					
8	Signal Generator	Agilent	E4421B	MY4335105	2024.06.11					
9	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2024.06.11					
10	MXA Signal Analyzer	Keysight	N9020A	MY51110104	2024.06.11					
11	RF Power sensor	DARE	RPR3006W	15100041SNO88	2024.06.11					
12	RF Power sensor	DARE	RPR3006W	15100041SNO89	2024.06.11					
13	RF power divider	Anritsu	K241B	992289	2024.06.11					
14	Wideband radio communication tester	Rohde&Schwarz	CMW500	154987	2024.06.11					
15	Active Loop Antenna	Com-Power	AL-130R	10160009	2024.06.11					
16	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2024.09.22					
17	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2025.07.14					
18	Horn Antenna	A-INFOMW	LB-180400-KF	J211060660	2024.07.14					
19	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2024.09.22					
20	Signal Generator	Agilent	N5183A	MY47420153	2024.09.22					
21	Spctrum Analyzer	Rohde&Schwarz	FSP 40	100501	2024.09.22					
22	Power Meter	KEYSIGHT	N1911A	MY50520168	2024.09.22					
23	Frequency Meter	VICTOR	VC2000	997406086	2024.09.22					
24	DC Power Source	HYELEC	HY5020E	055161818	2024.09.22					

3 CONDUCTED EMISSION

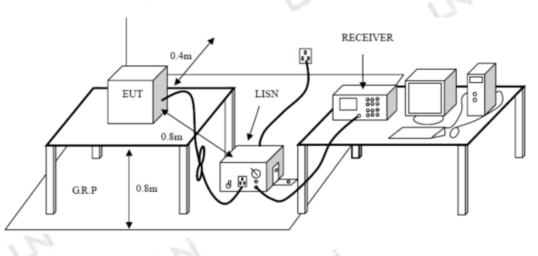
3.1 TEST LIMIT

For unintentional device, according to § 15.207(a) Line Conducted Emission Limits is as following

_	Maximum RF Line Voltage (dBµV)					
Frequency (MHz)	CLA	CLASS A		SS B		
(101112)	Q.P.	Ave.	Q.P.	Ave.		
0.15~0.50	79	66	66~56*	56~46*		
0.50~5.00	73	60	56	46		
5.00~30.0	73	60	60	50		

* Decreasing linearly with the logarithm of the frequency. For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 TEST SETUP



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3.3 TEST PROCEDURE

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is placed on a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10: 2013.
- 2. Support equipment, if needed, was placed as per ANSI C63.10: 2013.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10: 2013.
- 4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hzpower through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

3.4 TEST RESULT

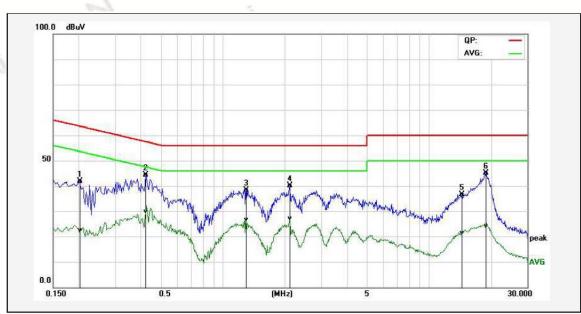
PASS

Remark:

- 1. All modes were tested at AC 120V and 240V, only the worst result of AC 120V was reported.
- 2. All modes were test at Low, Middle, and High channel, only the worst result of 802.11b Low Channel was reported.

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Temperature:	24 °C	Relative Humidity:	48%		
Test Date:	Mar. 09, 2024	Pressure:	1010hPa		
Test Voltage:	AC 120V, 60Hz	Phase:	Line		
Test Mode: Transmitting mode of 802.11b 2412MHz					



Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
(MHz)	(dBuV)	(dBuV)	(dB)	(dBu∀)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
0.2020	31.13	11.64	10.63	41.76	22.27	63.53	53.53	-21.77	-31.26	Pass
0.4220	33.71	19.15	10.67	44.38	29.82	57.41	47.41	-13.03	-17.59	Pass
1.2980	27.56	15.85	10.80	38.36	26.65	56.00	46.00	-17.64	-19.35	Pass
2.1140	29.23	16.28	10.94	40.17	27.22	56.00	46.00	-15.83	-18.78	Pass
14.5020	20.92	5.80	15.67	36.59	21.47	60.00	50.00	-23.41	-28.53	Pass
18.9060	29.65	8.68	15.57	45.22	24.25	60.00	50.00	-14.78	-25.75	Pass
	(MHz) 0.2020 0.4220 1.2980 2.1140 14.5020	reading (MHz) (dBuV) 0.2020 31.13 0.4220 33.71 1.2980 27.56 2.1140 29.23 14.5020 20.92	reading reading (MHz) (dBuV) (dBuV) 0.2020 31.13 11.64 0.4220 33.71 19.15 1.2980 27.56 15.85 2.1140 29.23 16.28 14.5020 20.92 5.80	reading reading factor (MHz) (dBuV) (dBuV) (dB) 0.2020 31.13 11.64 10.63 0.4220 33.71 19.15 10.67 1.2980 27.56 15.85 10.80 2.1140 29.23 16.28 10.94 14.5020 20.92 5.80 15.67	reading reading factor result (MHz) (dBuV) (dBuV) (dB) (dBuV) 0.2020 31.13 11.64 10.63 41.76 0.4220 33.71 19.15 10.67 44.38 1.2980 27.56 15.85 10.80 38.36 2.1140 29.23 16.28 10.94 40.17 14.5020 20.92 5.80 15.67 36.59	reading reading factor result result (MHz) (dBu∨) (dBu∨) (dB) (dBu∨) (dBu∨) 0.2020 31.13 11.64 10.63 41.76 22.27 0.4220 33.71 19.15 10.67 44.38 29.82 1.2980 27.56 15.85 10.80 38.36 26.65 2.1140 29.23 16.28 10.94 40.17 27.22 14.5020 20.92 5.80 15.67 36.59 21.47	reading reading factor result result limit (MHz) (dBuV) (dBuV) (dB) (dBuV) (dBuV)	reading reading factor result result limit limit limit (MHz) (dBuV) (dBuV) (dB) (dBuV) (dBuV)	reading reading factor result result limit limit margin (MHz) (dBuV) (dBuV) (dB) (dBuV) (dB) (dBuV) (dBuV) (dB) (dB) (dBuV) (dB) (dB)	reading reading factor result result limit limit margin margin margin (MHz) (dBuV) (dBuV) (dB) (dBuV) (dBuV) (dBuV) (dBuV) (dBuV) (dBuV) (dBuV) (dBuV) (dBuV) (dB) (dB) (dBuV) (dBuV) (dB) (dB) <td< td=""></td<>

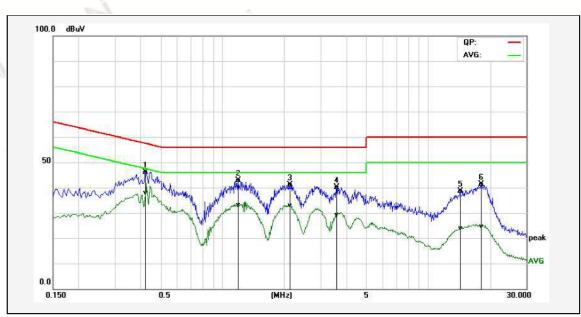
Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result - Limit.

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Report No.: UNIA24030716ER-62

Temperature:	24 °C	Relative Humidity:	48%		
Test Date:	Mar. 09, 2024	Pressure:	1010hPa		
Test Voltage:	AC 120V, 60Hz	Phase:	Neutral		
Test Mode:	Transmitting mode of 802.11b 2412MHz				



	No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
		(MHz)	(dBu∀)	(dBu∀)	(dB)	(dBu∀)	(dBuV)	(dBu∀)	(dBu∀)	(dB)	(dB)	
		0.4220	35.49	27.32	10.67	46.16	37.99	57.41	47.41	-11.25	-9.42	Pass
-	2P	1.1940	31.99	22.35	10.78	42.77	33.13	56.00	46.00	-13.23	-12.87	Pass
	3P	2.1300	30.23	21.88	10.95	41.18	32.83	56.00	46.00	-14.82	-13.17	Pass
	4P	3.6020	28.82	17.69	11.32	40.14	29.01	56.00	46.00	-15.86	-16.99	Pass
	5P	14.3580	23.01	8.21	15.60	38.61	23.81	60.00	50.00	-21.39	-26.19	Pass
	6P	18.0860	25.70	9.07	15.63	41.33	24.70	60.00	50.00	-18.67	-25.30	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result - Limit.

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4 RADIATED EMISSION

4.1 TEST LIMIT

For unintentional device, according to §15.209(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F (kHz)	-	Quasi-peak	300
0.490MHz-1.705MHz	24000/F (kHz)	-	Quasi-peak	30
1.705MHz-30MHz	30MHz 30 -		Quasi-peak	30
30MHz-88MHz	30MHz-88MHz 100 40.0		Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
	500	54.0	Average	3
Above 1GHz	500	74.0	Peak	3

Limit calculation and transfer to 3m distance as showed in the following table:

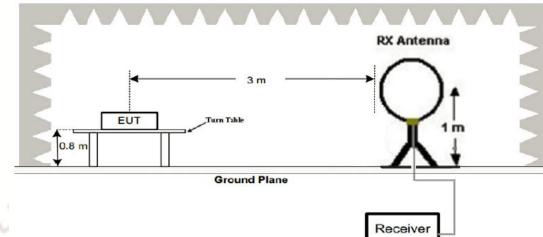
Frequency Limit		Distance
(MHz)	(dBuV/m)	(m)
0.009-0.490	20log(2400/F(KHz))+40log(300/3)	3
0.490-1.705	20log(24000/F(KHz))+40log(30/3)	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

For intentional device, according to §15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

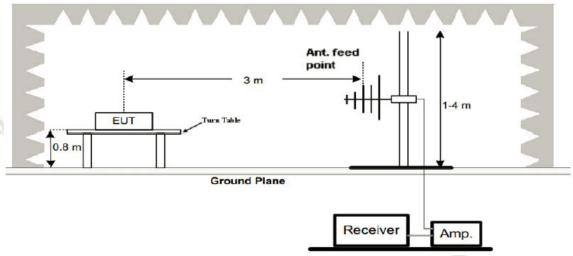


4.2 TEST SETUP

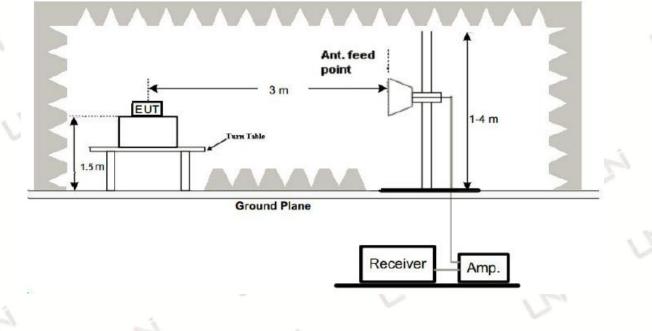
1. Radiated Emission Test-Up Frequency Below 30MHz



2. Radiated Emission Test-Up Frequency 30MHz~1GHz



3. Radiated Emission Test-Up Frequency Above 1GHz



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4.3 TEST PROCEDURE

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9kHz to25GHz per FCC PART 15.33(a).

Note: For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 TEST RESULT

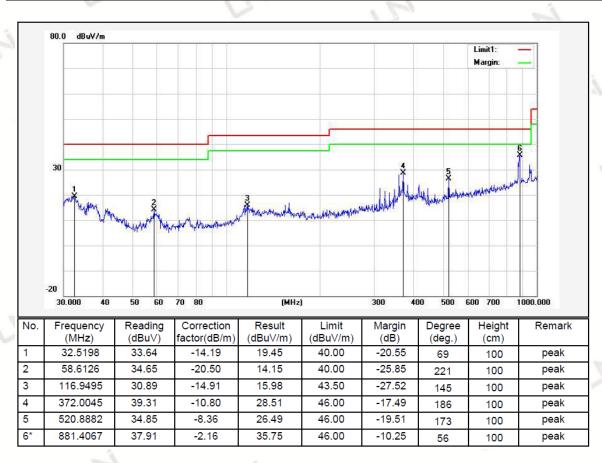
PASS

Remark:

- 1. All modes were test at Low, Middle, and High channel, only the worst result of 802.11b Low Channel was reported for below 1GHz test.
- 2. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, and test data recorded in this report.

Below 1GHz Test Results:

5. C			
Temperature:	24 ℃	Relative Humidity:	48%
Test Date:	Mar. 09, 2024	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Horizontal
Test Mode:	Transmitting mode of 802.11b 2412MHz		



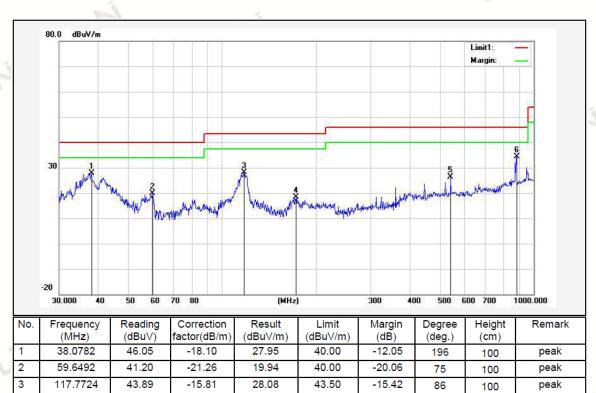
Remark: Result = Reading Level + Factor, Margin = Result – Limit Factor = Ant. Factor + Cable Loss – Pre-amplifier

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Temperature:	24 °C	Relative Humidity:	48%
Test Date:	Mar. 09, 2024	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Vertical
Test Mode:	Transmitting mode of 802.11b 2412MHz		



Remark: Result = Reading Level + Factor, Margin = Result – Limit Factor = Ant. Factor + Cable Loss – Pre-amplifier

18.37

26.39

34.26

Remark:

172.5988

541.3724

881.4067

34.55

36.89

39.73

-16.18

-10.50

-5.47

4

5

6*

- 1. Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, emission from 9kHz to 30MHz are more than 20dB below the limit, so it was not recorded in this report.
- 2. * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

43.50

46.00

46.00

-25.13

-19.61

-11.74

112

105

137

100

100

100

3. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1MHz for measuring above 1GHz, below 30MHz was 10kHz.

D101&D401, No. 107, Kalcheng High-Tech Park, Taoyuan Community, Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China 广东省深圳市龙华区大浪街道陶元社区凯诚高新园107(D101、D401) (P.C.518109) Tel:+86-755-86180996

peak

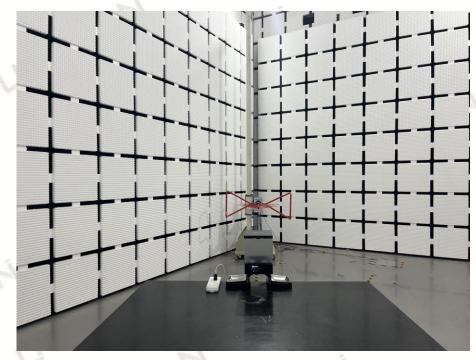
peak

peak

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5 PHOTO OF TEST

RADIATED EMISSION



30MHz-1000MHz

CONDUCTED EMISSION



End of Report

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