TEST REPORT

Product Name	:	paper shredder
Model Number	:	PN415D, PN310D, PN210D, ES531546AAA, PNxyyD, PN3bbD, PNzwwD

Prepared for	:	NINGBO WONGHING INTELLIGENT MANUFACTURING CO., LTD
Address	:	Zhengjia 17 House Settlement, XiePu ZhenHai, Ningbo, Zhejiang, 315203, P.R.China
Prepared by	:	EMTEK (NINGBO) CO., LTD.
Address	:	No. 8, Building 8, Lane 216, Qingyi Road, Hi-Tech Zone, Ningbo, Zhejiang, China Tel: +86-574-27907998 Fax: +86-574-27721538

Report Number	:	ENB2404010172E00301R
Date(s) of Tests	:	April 01, 2024 to April 11, 2024
Date of issue	:	April 16, 2024

TABLE OF CONTENT

Test Report Description Page

TEST REPORT DESCRIPTION

Applicant	:	NINGBO WONGHING INTELLIGENT MANUFACTURING CO., LTD
Manufacturer	:	NINGBO WONGHING INTELLIGENT MANUFACTURING CO., LTD
Trade Mark	:	N/A
EUT	:	paper shredder
Model No.	:	PN415D, PN310D, PN210D, ES531546AAA, PNxyyD, PN3bbD, PNzwwD
Power Supply	:	AC 100V, 50/60Hz

PSE

Test Procedure Used:

J55014-1 (H27)

The device described above is tested by EMTEK (NINGBO) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and EMTEK (NINGBO) CO., LTD. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the J55014-1 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (NINGBO) CO., LTD.

Date of Test : April 01, 2024 to April 11, 2024

Prepared by : June Gao

June Gao/Engineer

Reviewer : Ade Wang

Ade Wang/Supervisor

Approved & Authorized Signer : Tony Wei

Tony Wei/Manager

EMTEK (NINGBO) CO., LTD. TESTING

Modified History

Version	Report No.	Revision date	Summary
	ENB2404010172E00301R	/	Original Report

1. SUMMARY OF TEST RESULT

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted Emissions at Mains Terminals	J 55014-1(H27)	Table 1	Pass
Conducted Emissions at Load Terminals and Additional Terminals	J 55014-1(H27)	Table 1	N/A
Click	J 55014-1(H27)	Section 4.2	Pass
Disturbance Power	J 55014-1(H27)	Table 2a&2b	Pass
Radiated Emission	J 55014-1(H27)	Table 3	N/A
Note: N/A is an abbreviation for Not Applicable.			

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	:	paper shredder
Model Number	:	PN415D, PN310D, PN210D, ES531546AAA, PNxyyD, PN3bbD, PNzwwD (Note: All models are the same except the knife head. "x" can be 4 to 6 which indicates customer code; letter "z"can be 1 to 2 which indicates customer code. Letter "ww" denote micro-cut units and can be 01 to 10 which indicates the amount of paper shredded; "bb" denote micro-cut units and can be 01 to 10 which indicates the amount of paper shredded. "yy" denote cross-cut units and can be 01 to 15 which indicates the amount of paper shredded. Model ES531646AAA is same as model PN310D except the model name, We prepared model PN415D for EMC test.)
Test Voltage	:	AC 100V/60Hz
Highest Frequency	:	Below 108 MHz
Sample Number	:	ENB2404010172E003-1-1
Applicant	:	NINGBO WONGHING INTELLIGENT MANUFACTURING CO., LTD
Address	:	Zhengjia 17 House Settlement, XiePu ZhenHai, Ningbo, Zhejiang, 315203, P.R.China
Manufacturer	:	NINGBO WONGHING INTELLIGENT MANUFACTURING CO., LTD
Address	:	Zhengjia 17 House Settlement, XiePu ZhenHai, Ningbo, Zhejiang, 315203, P.R.China
Date of receiver	:	April 01, 2024
Date of Test	:	April 01, 2024 to April 11, 2024

2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	AC mains	AC	No	Unshielded	None
/	/	/	/	/	/

*Note: Use abbreviations:
AC= AC Power port
DC= DC Power port
N/E= Non-Electrical
A/D=Analogue/digital data port (signal/control port, antenna port, wired network port, broadcast receiver tuner port, optical fibre port)

2.3. Independent Operation Modes

A. FWD
B. REV

2.4. Test Voltage and Frequency for J 55014-1

A test at about 160 kHz and at about 50 MHz shall be made over a range of 0,9 to 1,1 times the rated voltage in order to check whether the level of disturbance varies considerably with the supply voltage; in which case, the measurements are to be made at the voltage that causes maximum disturbance.

If an appliance has a rated voltage range, the multipliers 0,9 and 1,1 apply to the lowest and highest, most common nominal supply voltages that fall within the rated voltage range that is specified by the manufacturer.

NOTE The most common nominal supply voltages are 100 V, 110 V, 115 V, 120 V, 127 V, 220 V, 230 V, 240 V and 250 V.

If an appliance has more than one rated voltage the multipliers 0,9 and 1,1 apply to the rated voltage that causes maximum disturbance.

For appliances with a frequency range of 50 Hz to 60 Hz, a test at about 160 kHz and at about 50 MHz shall be made using supply frequencies of 50 Hz and 60 Hz at the above determined supply voltage, in order to check whether the level of disturbance varies considerably with the supply frequency; in which case, the measurements are to be made at the supply frequency which causes maximum disturbance.

We prepared AC 110V/60Hz voltage for EMC test.

2.5. Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Conducted Emissions at Mains Terminals	AC 110V/60Hz	Mode A Mode B	Mode A Mode B
Click	AC 110V/60Hz	Mode A	Mode A
Disturbance Power	AC 110V/60Hz	Mode A Mode B	Mode A Mode B

2.6. Description of Test Facility

Site Description

EMC Lab. : **Accredited by CNAS**
The Certificate Registration Number is L6666.
The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)

Designation by FCC
Designation Number: CN1354
Test Firm Registration Number: 427606

Accredited by A2LA
The Certificate Number is 4321.03.
The certificate isvalid until May 31, 2025

Designation by Industry Canada
The Conformity Assessment Body Identifier is CN0114

Name of Firm : EMTEK (NINGBO) CO., LTD.

Site Location : No. 8, Building 8, Lane 216, Qingyi Road, Hi-Tech Zone, Ningbo, Zhejiang, China

2.7. Support Device

N/A

2.8. Measurement Uncertainty

Conducted Emission Uncertainty	: 2.08dB (9 k-150 kHz) 2.40dB (150 k-30 MHz)
Click Uncertainty	: 1.50dB
Disturbance Power Uncertainty	: 4.34dB

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Conducted Emissions at Mains Measurement

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-001	EMI Test Receiver	R & S	ESCI	101108	Dec 14, 2023	1 Year
ENE-158	L.I.S.N	Schwarzbeck	NNLK 8129	0373	Nov 17, 2023	1 Year
ENE-004	L.I.S.N	Schwarzbeck	NSLK 8126	8126-462	July 06, 2023	1 Year
ENE-006	Pulse Limiter	MTS-systemtechnik	IMP-136	2611115-001-0033	July 06, 2023	1 Year
ENE-278	RF Switching Unit	HTEC	HRSU	222101	July 06, 2023	1 Year
ENE-083	RF Cable	Hubber Suhner/Swiss	CBL-RE-3	/	May 31, 2023	1 Year
ENE-162-2	RF Cable	TIMES	2M(N-N)	605236-0002	May 31, 2023	1 Year
ENE-149	Conduction Test Room 1#	SKET	11.5*5*4m	/	Dec 17, 2021	3 Year

3.2. For Click Measurement

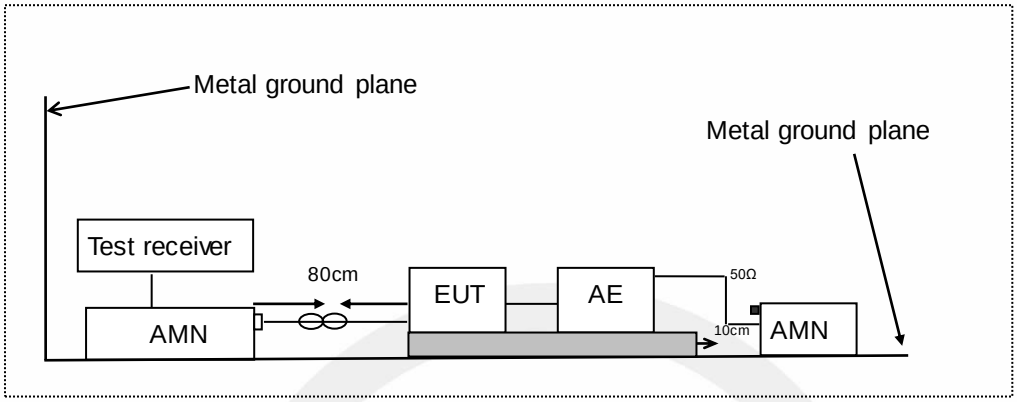
Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-003	L.I.S.N	R & S	ENV216	101193	July 06, 2023	1 Year
ENE-162-3	RF Cable	TIMES	2M(N-N)	605241-0001	May 31, 2023	1 Year
ENE-138-1	Click Switching Operation Box	A.F.J	SW04/32A	SW042137145	Nov 17, 2023	1 Year
ENE-138	Click Meter	A.F.J	DDA55+	14042134205	Nov 17, 2023	1 Year
ENE-150	Conduction Test Room2#	SKET	6.5*5*4m	/	Apr 17, 2023	3 Year

3.3. For Disturbance Power Measurement

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-001	EMI Test Receiver	R & S	ESCI	101108	Dec 14, 2023	1 Year
ENE-007	Absorbing Clamp	R & S	MDS21	100397	July 06, 2023	1 Year
ENE-008	Coaxial attenuator	R & S	MDS21	100397	July 06, 2023	1 Year
ENE-278	RF Switching Unit	HTEC	HRSU	222101	July 06, 2023	1 Year
ENE-165-2	RF Cable	TIMES	10M（N-N）	605239-0003	May 31, 2023	1 Year
ENE-162-2	RF Cable	TIMES	2M(N-N)	605236-0002	May 31, 2023	1 Year
ENE-149	Conduction Test Room 1#	SKET	11.5*5*4m	/	Dec 17, 2021	3 Year

4. CONDUCTED EMISSIONS AT MAINS MEASUREMENT

4.1. Block Diagram of Test Setup



AMN: Artificial mains network
AE: Associated equipment
EUT: Equipment under test

4.2. Measurement Standard

J 55014-1(H27)

4.3. Measurement Limits

☒Mains Terminals

Frequency range MHz	Quasi-peak dBuV	Average dBuV
0.15 to 0.50	66 to 56*	59 to 46*
0.50 to 5	56	46
5 to 30	60	50
The lower limit applies at the transition frequencies. *: Decreasing linearly with logarithm of frequency from		

☐Tools Mains port

Frequency range	☐P≤700W		☐700W＜P≤1000W		☐P＞1000W	
MHz	Quasi-peak dBuV	Average dBuV	Quasi-peak dBuV	Average dBuV	Quasi-peak dBuV	Average dBuV
0.15 to 0.35	66 to 59*	59 to 49*	70 to 63*	63 to 53*	76 to 69*	69 to 59*
0.35 to 5	59	49	63	53	69	59
5 to 30	64	54	68	58	74	64
The lower limit applies at the transition frequencies. *: Decreasing linearly with logarithm of frequency from Key: P = rated power of the motor only.						

4.4. Test Procedure

The EUT was placed on a desk 0.4 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a artificial mains network (AMN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other AMN.

The AMN provides 50 ohm coupling impedance for the measuring instrument.

The CISPR states that the AMN with 50 ohm and 50 microhenry should be used.

Both sides of AC line were checked for maximum conducted interference.

For frequency band 150 KHz to 30 MHz, the bandwidth is set at 9 KHz. The frequency range from 150 kHz to 30 MHz is investigated.

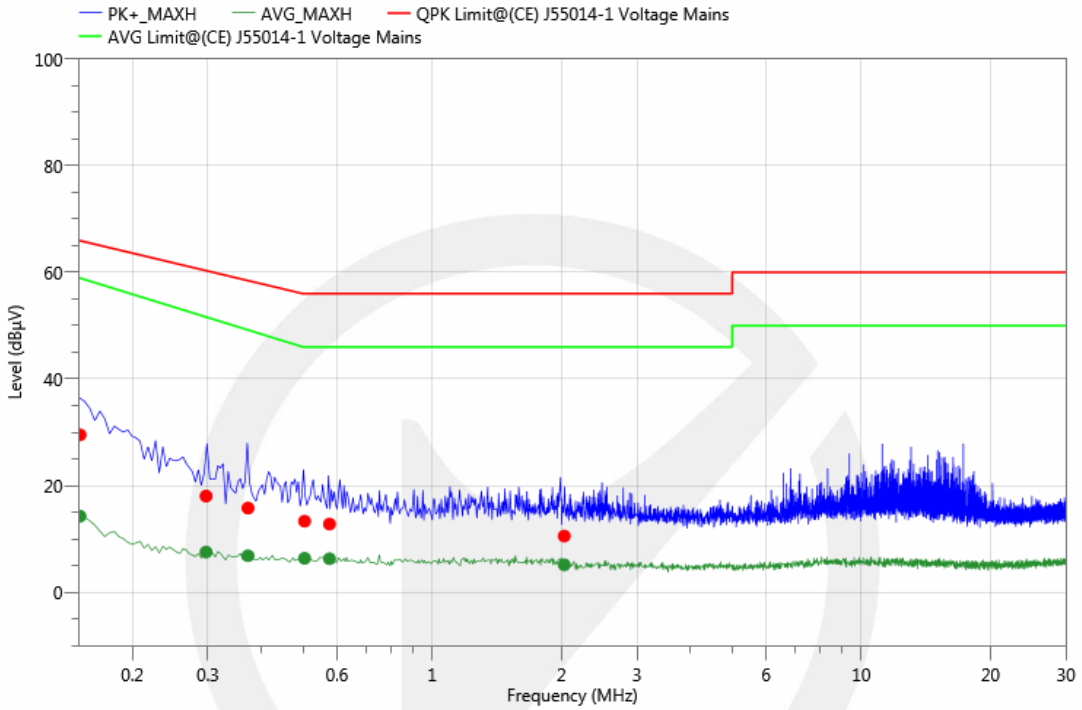
Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

4.5. Measuring Results

Pass.

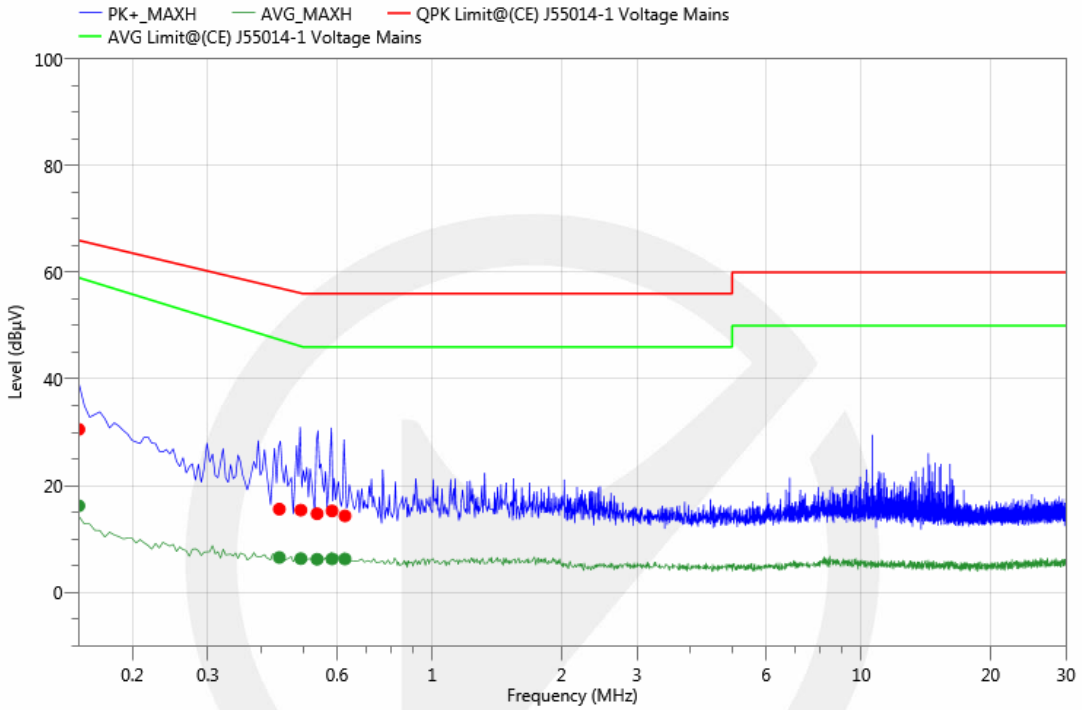
Please refer to the following pages.

Project Information			
Model：	PN415D	Mode：	FWD
Voltage：	AC 110V/60Hz	Engineer：	Alan Li
Temp：	21℃	Humi：	53%



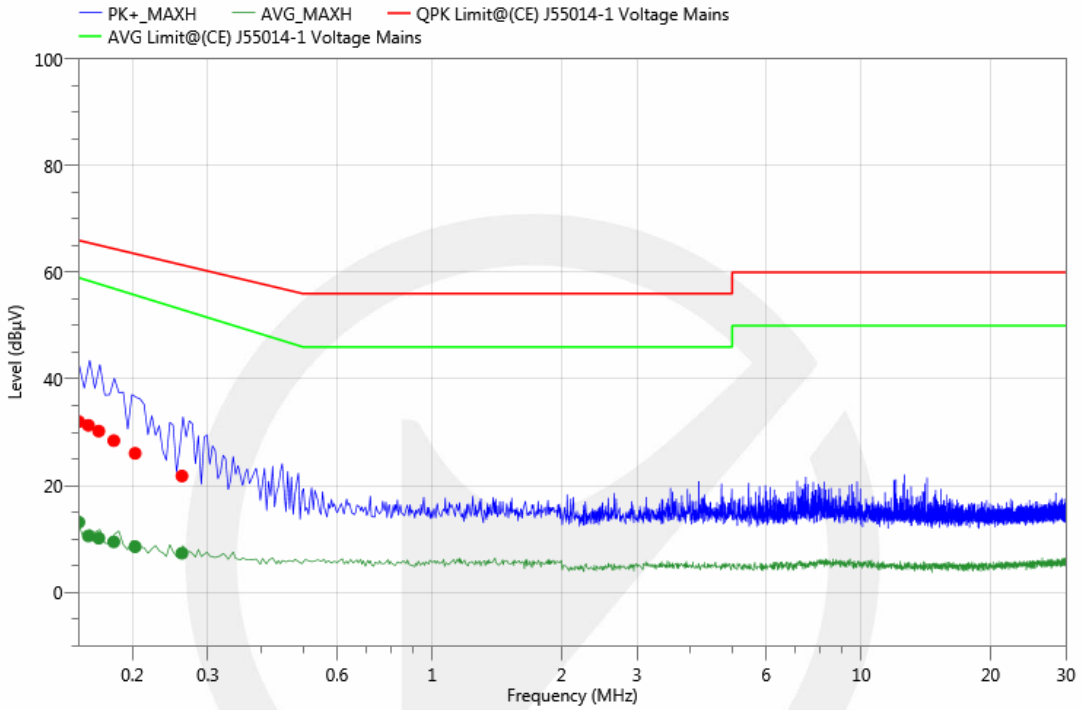
Final Result (Margin=Limit-Meas.(Reading +Corr.))										
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	PE	Verdict
1	0.151	19.69	9.83	29.52	65.94	36.42	QPK	N	GND	Pass
2	0.151	4.43	9.83	14.26	58.93	44.67	AVG	N	GND	Pass
3	0.297	8.13	9.9	18.03	60.33	42.30	QPK	N	GND	Pass
4	0.297	-2.37	9.9	7.53	51.62	44.09	AVG	N	GND	Pass
5	0.372	5.85	9.93	15.78	58.46	42.68	QPK	N	GND	Pass
6	0.372	-3.09	9.93	6.84	49.19	42.35	AVG	N	GND	Pass
7	0.504	3.34	9.98	13.32	56.00	42.68	QPK	N	GND	Pass
8	0.504	-3.62	9.98	6.36	46.00	39.64	AVG	N	GND	Pass
9	0.576	2.77	10.01	12.78	56.00	43.22	QPK	N	GND	Pass
10	0.576	-3.73	10.01	6.28	46.00	39.72	AVG	N	GND	Pass
11	2.030	0.33	10.2	10.53	56.00	45.47	QPK	N	GND	Pass
12	2.030	-5.06	10.2	5.14	46.00	40.86	AVG	N	GND	Pass

Project Information			
Model：	PN415D	Mode：	FWD
Voltage：	AC 110V/60Hz	Engineer：	Alan Li
Temp：	21℃	Humi：	53%



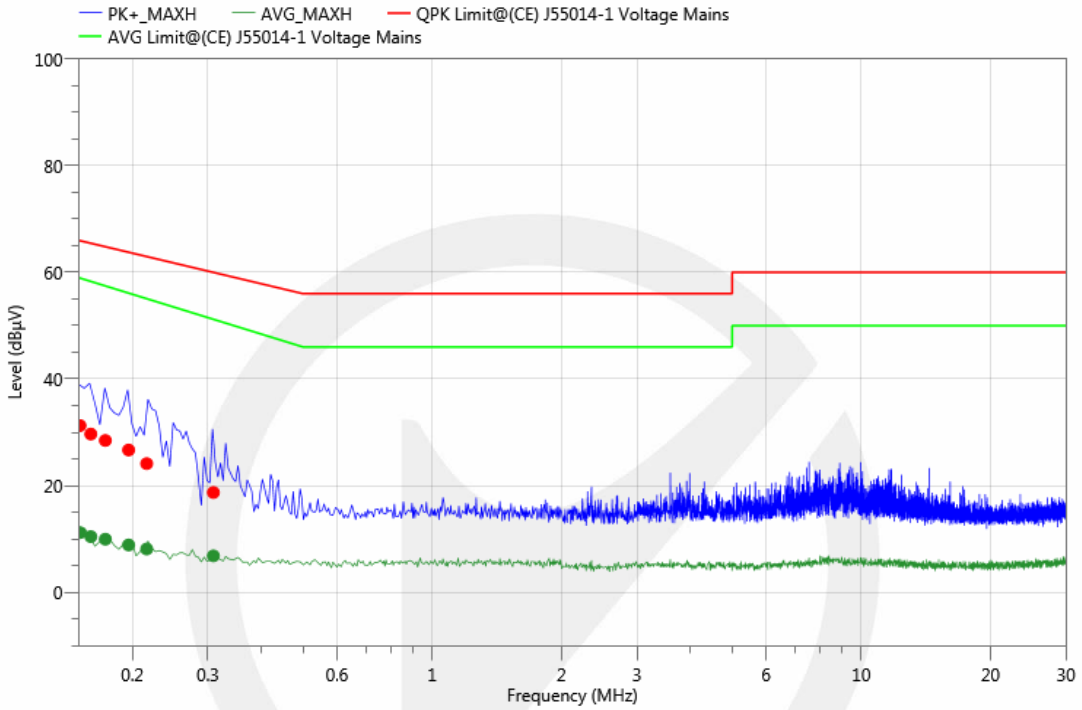
Final Result (Margin=Limit-Meas.(Reading +Corr.))										
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	PE	Verdict
1	0.150	20.72	9.83	30.55	66.00	35.45	QPK	L1	GND	Pass
2	0.150	6.38	9.83	16.21	59.00	42.79	AVG	L1	GND	Pass
3	0.440	5.62	9.96	15.58	57.06	41.48	QPK	L1	GND	Pass
4	0.440	-3.44	9.96	6.52	47.38	40.86	AVG	L1	GND	Pass
5	0.494	5.43	9.97	15.40	56.10	40.70	QPK	L1	GND	Pass
6	0.494	-3.67	9.97	6.30	46.13	39.83	AVG	L1	GND	Pass
7	0.539	4.73	9.99	14.72	56.00	41.28	QPK	L1	GND	Pass
8	0.539	-3.81	9.99	6.18	46.00	39.82	AVG	L1	GND	Pass
9	0.584	5.23	10.01	15.24	56.00	40.76	QPK	L1	GND	Pass
10	0.584	-3.76	10.01	6.25	46.00	39.75	AVG	L1	GND	Pass
11	0.626	4.29	10.03	14.32	56.00	41.68	QPK	L1	GND	Pass
12	0.626	-3.80	10.03	6.23	46.00	39.77	AVG	L1	GND	Pass

Project Information			
Model：	PN415D	Mode：	REV
Voltage：	AC 110V/60Hz	Engineer：	Alan Li
Temp：	21℃	Humi：	53%



Final Result (Margin=Limit-Meas.(Reading +Corr.))										
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	PE	Verdict
1	0.150	22.17	9.83	32.00	66.00	34.00	QPK	L1	GND	Pass
2	0.150	3.30	9.83	13.13	59.00	45.87	AVG	L1	GND	Pass
3	0.158	21.47	9.84	31.31	65.57	34.26	QPK	L1	GND	Pass
4	0.158	0.71	9.84	10.55	58.44	47.89	AVG	L1	GND	Pass
5	0.167	20.38	9.84	30.22	65.11	34.89	QPK	L1	GND	Pass
6	0.167	0.29	9.84	10.13	57.84	47.71	AVG	L1	GND	Pass
7	0.181	18.58	9.85	28.43	64.44	36.01	QPK	L1	GND	Pass
8	0.181	-0.41	9.85	9.44	56.97	47.53	AVG	L1	GND	Pass
9	0.203	16.18	9.87	26.05	63.49	37.44	QPK	L1	GND	Pass
10	0.203	-1.34	9.87	8.53	55.73	47.20	AVG	L1	GND	Pass
11	0.261	11.91	9.89	21.80	61.40	39.60	QPK	L1	GND	Pass
12	0.261	-2.58	9.89	7.31	53.02	45.71	AVG	L1	GND	Pass

Project Information			
Model：	PN415D	Mode：	REV
Voltage：	AC 110V/60Hz	Engineer：	Alan Li
Temp：	21℃	Humi：	53%

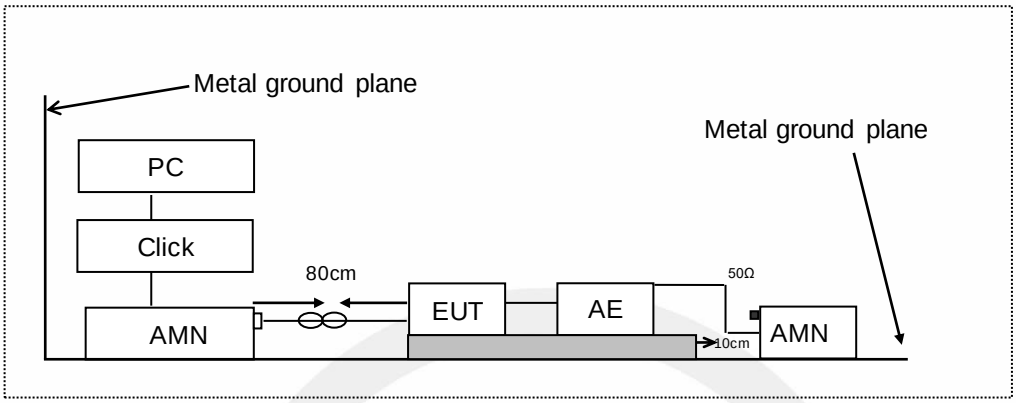


Final Result (Margin=Limit-Meas.(Reading +Corr.))

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	PE	Verdict
1	0.151	21.43	9.83	31.26	65.94	34.68	QPK	N	GND	Pass
2	0.151	1.34	9.83	11.17	58.93	47.76	AVG	N	GND	Pass
3	0.160	19.84	9.83	29.67	65.46	35.79	QPK	N	GND	Pass
4	0.160	0.60	9.83	10.43	58.30	47.87	AVG	N	GND	Pass
5	0.173	18.62	9.85	28.47	64.82	36.35	QPK	N	GND	Pass
6	0.173	0.09	9.85	9.94	57.46	47.52	AVG	N	GND	Pass
7	0.196	16.81	9.87	26.68	63.78	37.10	QPK	N	GND	Pass
8	0.196	-1.01	9.87	8.86	56.11	47.25	AVG	N	GND	Pass
9	0.216	14.24	9.88	24.12	62.97	38.85	QPK	N	GND	Pass
10	0.216	-1.77	9.88	8.11	55.06	46.95	AVG	N	GND	Pass
11	0.309	8.79	9.91	18.70	60.00	41.30	QPK	N	GND	Pass
12	0.309	-3.09	9.91	6.82	51.20	44.38	AVG	N	GND	Pass

5. CLICKS MEASUREMENT

5.1. Block Diagram of Test Setup



AMN: Artificial mains network
AE: Associated equipment
EUT: Equipment under test
Click: Click Switching Operation Box and Click Meter

5.2. Measurement Standard

J 55014-1(H27)

5.3. Measurement Limits

According to Section 4.2 of standard J 55014-1.

5.4. Test Procedure

This test is done when switch operations in thermostatically controlled appliances, automatic program controlled machines and other electrically controlled or operated appliances may generate discontinuous disturbance (Click). The measurement of disturbance shall be performed at the following restricted number of frequencies: 150 KHz, 500 KHz, 1.4 MHz and 30 MHz. At each frequency, for appliances, which stop automatically, duration of the minimum number of complete programs necessary to produce 40 counted clicks or, where relevant, 40 counted clicks have not been produced, the test is stopped at the end of the program in course. The relevant click rate N. The appliance under test shall be deemed to comply with the limit if not more than a quarter of the number of the counted click registered during the observation time.

5.5. Test Result

Pass.

Please refer to the following pages.

TEST REPORT

TEST PASS

03/04/2023 18:17:41

Sample No :	ENB2404010172E003-1-1	Time Test	**00:06:30.18**
Temp :	21℃	Executed by	WK Luo
Humi :	53%		
Model	PN415D		
Type		SN	
Report	ENB2404010172E003		
Mode	FWD	**f = 1**	
Type of Eut	paper shredder		

Rx 150 KHz Att. [dB]	**20**	Rx 500 kHz Att. [dB]	**20**
Rx 1.4 MHz Att. [dB]	**20**	Rx 30 MHz Att. [dB]	**20**
Rx 150 kHz Input Offset [dB]	**0**	Rx 500 kHz Input Offset [dB]	**0**
Rx 1.4 MHz Input Offset [dB]	**0**	Rx 30 MHz Input Offset [dB]	**0**
External Att. [dB]	**NONE**		
Remote	**SW04 LT32 -NEUTRAL**		

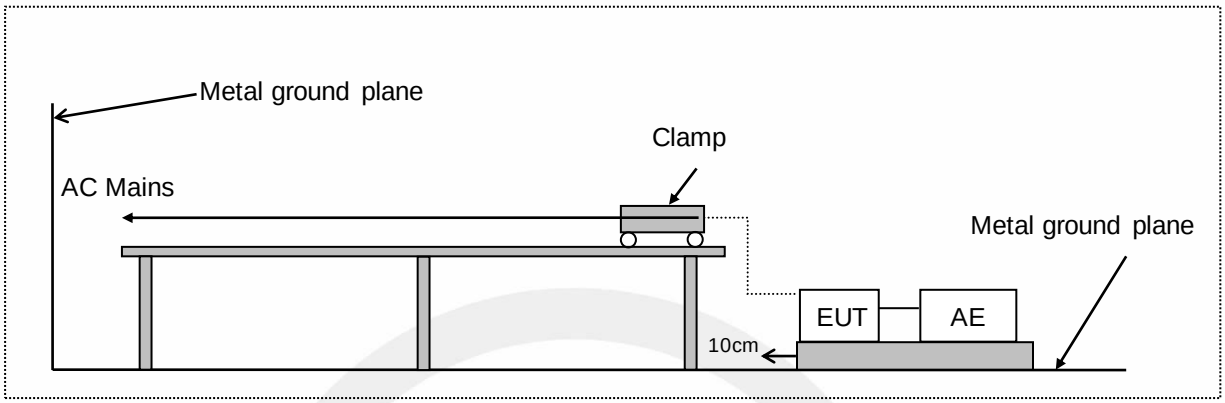
	150 kHz	500 kHz	1.4 MHz	30 MHz
First Run				
Short	9	22	19	0
Long	0	0	0	0
Long (10< t ≤20 ms)	0	0	0	0
Tot. Clicks Corr	0	0	0	0
Events	0	0	0	0
Time(s)	0.00	0.00	0.00	0.00
Sw.Op.	40	40	40	40
5.4.3.5 events	0	0	0	0
Limit dBuV	66	56	56	60
N	6.35	6.35	6.35	6.35
	PASS	**PASS**	**PASS**	**PASS**

150 kHz	New Limit Calculated	500 kHz	New Limit Calculated
1.4 MHz	New Limit Calculated	30 MHz	No Clicks

New Limit [dBuV]	79.49	69.49	69.49	73.49
Allowed Clicks	2	5	4	0
Short	0	0	0	0
Long	0	0	0	0
Tot. Clicks Corr	0	0	0	0
Events	0	0	0	0
Time(s)	0.00	0.00	0.00	0.00
5.4.3.5 events	0	0	0	0
	PASS	**PASS**	**PASS**	**PASS**

6. DISTURBANCE POWER MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. Measurement Standard

J 55014-1(H27)

6.3. Measurement Limits

All emanations from devices or system shall not exceed the level of field strengths specified below:

6.3.1.Limits (Table 2a of standard J 55014-1)

Frequency range	☒Household and similar appliances		Tools					
			☐P≤700W		☐700W＜P≤1000W		☐P＞1000W	
MHz	Quasi-peak dBpW	Average dBpW	Quasi-peak dBpW	Average dBpW	Quasi-peak dBpW	Average dBpW	Quasi-peak dBpW	Average dBpW
30 to 300	45 to 55*	35 to 45*	45 to 55*	35 to 45*	49 to 59*	39 to 49*	55 to 65*	45 to 55*
The lower limit applies at the transition frequencies. *: Decreasing linearly with logarithm of frequency from Key: P = rated power of the motor only.								

6.3.2. Margin when performing disturbance power measurement (Table 2b of standard J 55014-1)

Frequency range	☒Household and similar appliances		Tools					
			☐P≤700W		☐700W＜P≤1000W		☐P＞1000W	
MHz	Quasi-peak dBpW	Average dBpW	Quasi-peak dBpW	Average dBpW	Quasi-peak dBpW	Average dBpW	Quasi-peak dBpW	Average dBpW
30 to 300	0 to 10*	0	0 to 10*	0	0 to 10*	0	0 to 10*	0
The lower limit applies at the transition frequencies. *: Decreasing linearly with logarithm of frequency from Key: P = rated power of the motor only.								

6.4. Test Procedure

The EUT are placed on an insulating support 0.8m high above a ground reference plane and away from other metallic surface at least 0.8m. It is connected to the power mains through an extension cord of 6m min. The absorber clamp clamps the cord and moves from the far end to the EUT to measure the disturbing energy emitted from the cord.

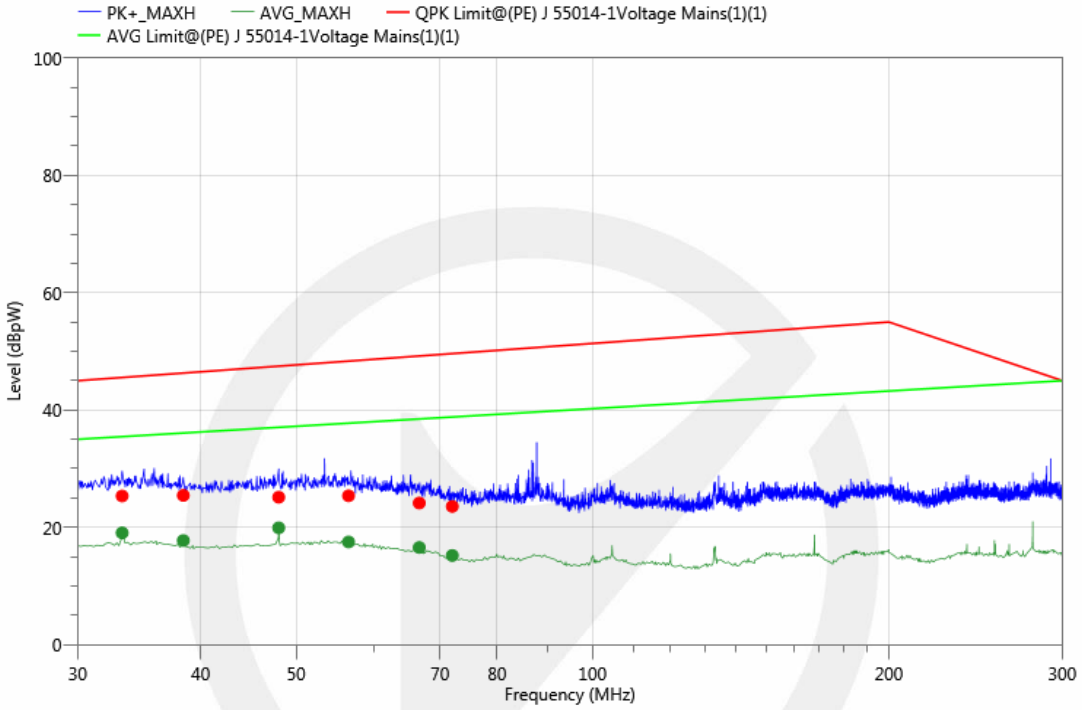
The bandwidth of the receiver is set at 120 kHz in 30 MHz to 300 MHz. The frequency range from 30 MHz to 300 MHz is investigated.

6.5. Test Results

Pass.

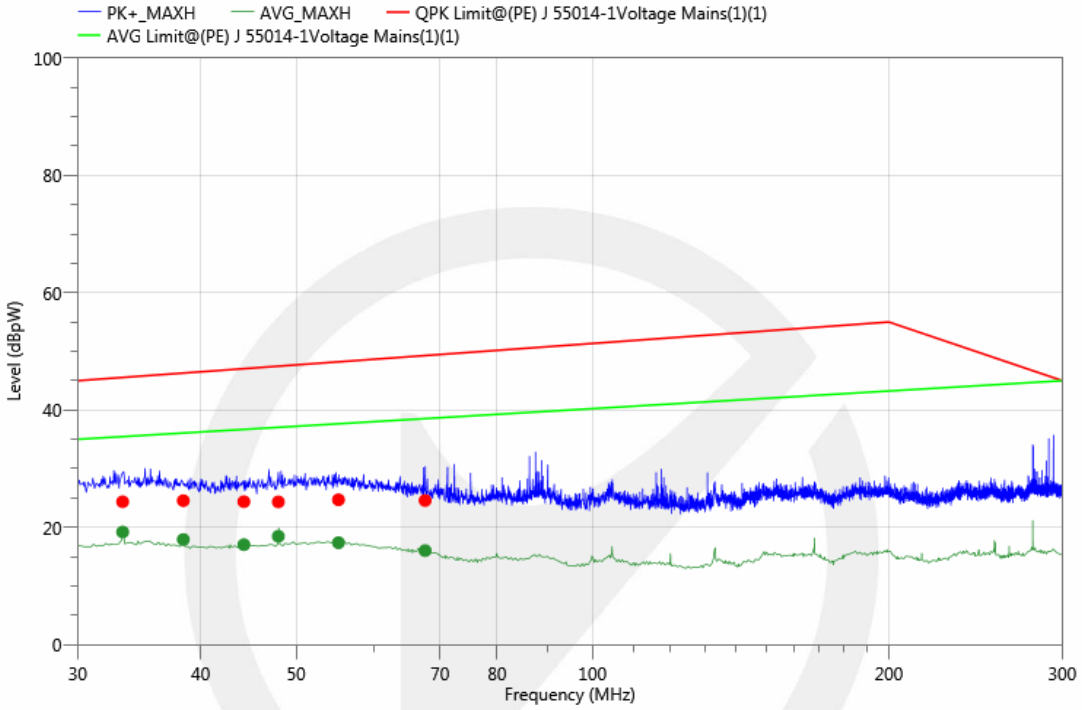
Please refer to the following pages.

Project Information			
Model：	PN415D	Mode：	FWD
Voltage：	AC 110V/60Hz	Engineer：	Alan Li
Temp：	21℃	Humi：	53%



Final Result (Margin=Limit-Meas.(Reading +Corr.))								
No.	Freq. (MHz)	Reading (dBpW)	Corr. (dB)	Meas. (dBpW)	Limit (dBpW)	Margin (dB)	Det.	Verdict
1	33.280	15.71	9.62	25.33	45.55	20.22	QPK	Pass
2	33.280	9.42	9.62	19.04	35.45	16.41	AVG	Pass
3	38.400	16.11	9.32	25.43	46.30	20.87	QPK	Pass
4	38.400	8.41	9.32	17.73	36.07	18.34	AVG	Pass
5	48.000	15.67	9.45	25.12	47.48	22.36	QPK	Pass
6	48.000	10.45	9.45	19.90	37.04	17.14	AVG	Pass
7	56.520	15.86	9.5	25.36	48.34	22.98	QPK	Pass
8	56.520	7.99	9.5	17.49	37.75	20.26	AVG	Pass
9	66.680	16.09	8.04	24.13	49.21	25.08	QPK	Pass
10	66.680	8.51	8.04	16.55	38.47	21.92	AVG	Pass
11	72.040	16.33	7.22	23.55	49.62	26.07	QPK	Pass
12	72.040	7.96	7.22	15.18	38.80	23.62	AVG	Pass

Project Information			
Model：	PN415D	Mode：	REV
Voltage：	AC 110V/60Hz	Engineer：	Alan Li
Temp：	21℃	Humi：	53%



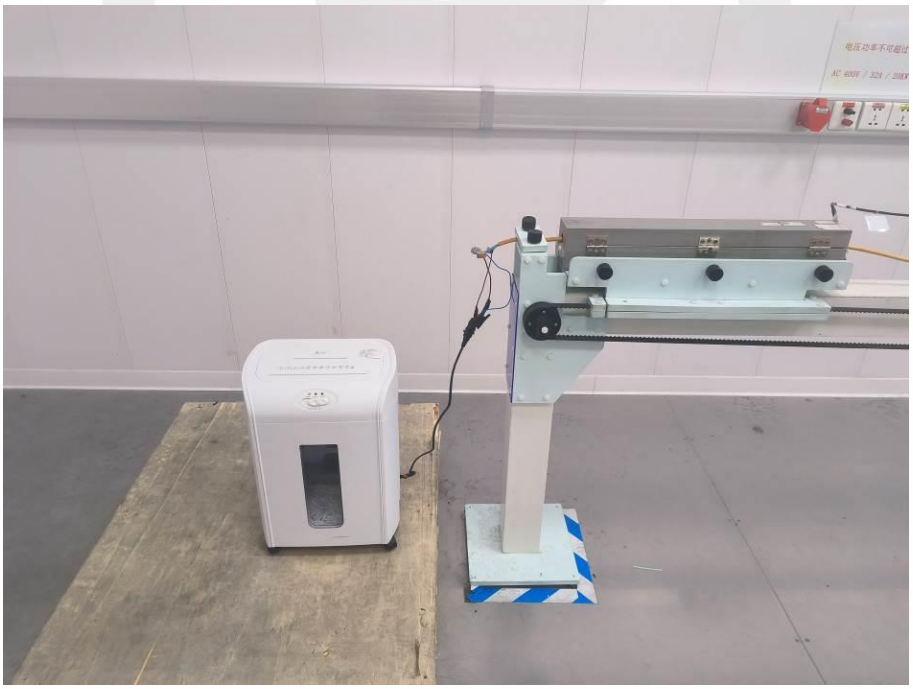
Final Result (Margin=Limit-Meas.(Reading +Corr.))								
No.	Freq. (MHz)	Reading (dBpW)	Corr. (dB)	Meas. (dBpW)	Limit (dBpW)	Margin (dB)	Det.	Verdict
1	33.320	14.73	9.62	24.35	45.55	21.20	QPK	Pass
2	33.320	9.57	9.62	19.19	35.46	16.27	AVG	Pass
3	38.400	15.21	9.32	24.53	46.30	21.77	QPK	Pass
4	38.400	8.59	9.32	17.91	36.07	18.16	AVG	Pass
5	44.240	15.11	9.25	24.36	47.05	22.69	QPK	Pass
6	44.240	7.78	9.25	17.03	36.69	19.66	AVG	Pass
7	47.960	14.89	9.44	24.33	47.47	23.14	QPK	Pass
8	47.960	9.02	9.44	18.46	37.04	18.58	AVG	Pass
9	55.200	14.96	9.72	24.68	48.21	23.53	QPK	Pass
10	55.200	7.64	9.72	17.36	37.65	20.29	AVG	Pass
11	67.600	16.64	7.92	24.56	49.28	24.72	QPK	Pass
12	67.600	8.10	7.92	16.02	38.53	22.51	AVG	Pass

7. PHOTOGRAPHS OF TEST

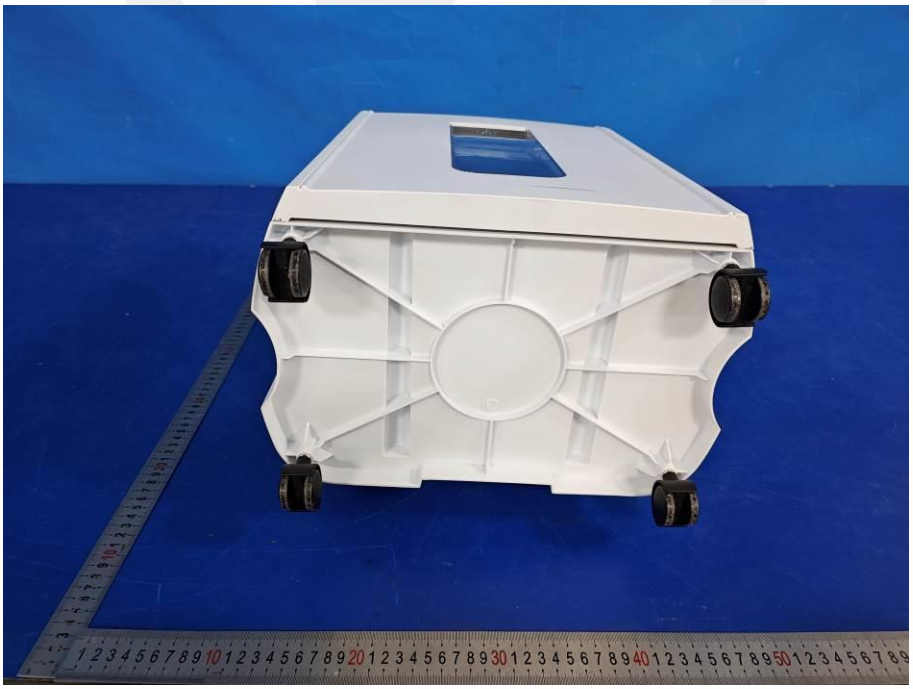
7.1. Photo of Power Line Conducted Emission Measurement

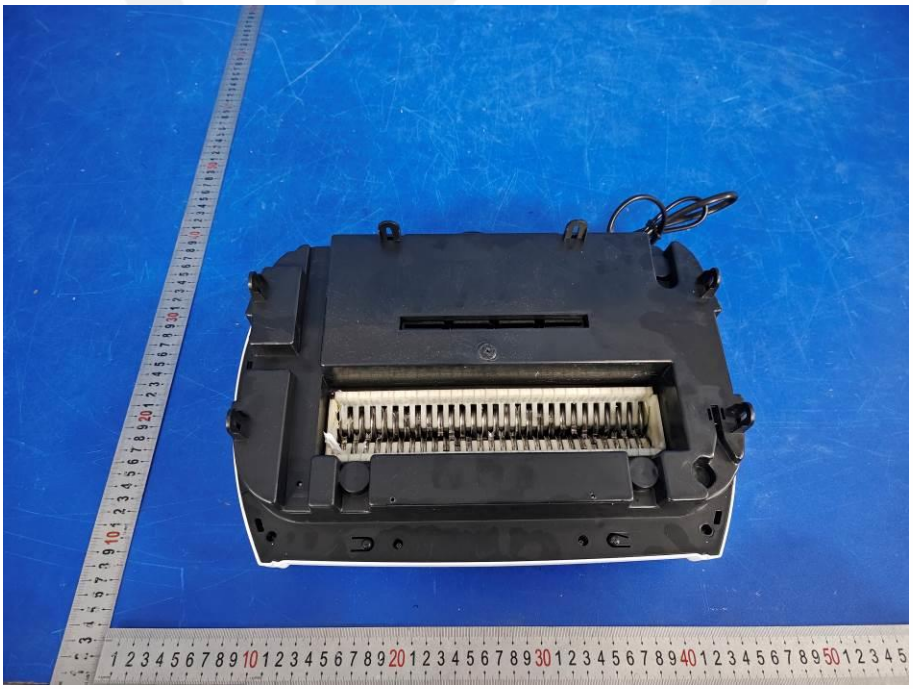
7.2. Photo of Click Measurement

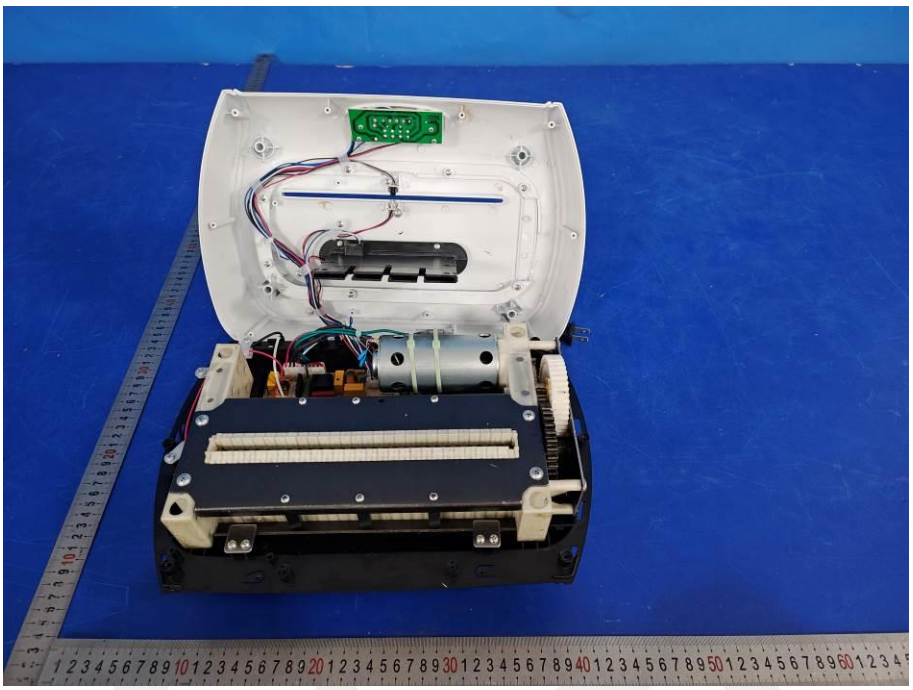
7.3. Photo of Disturbance Power Measurement

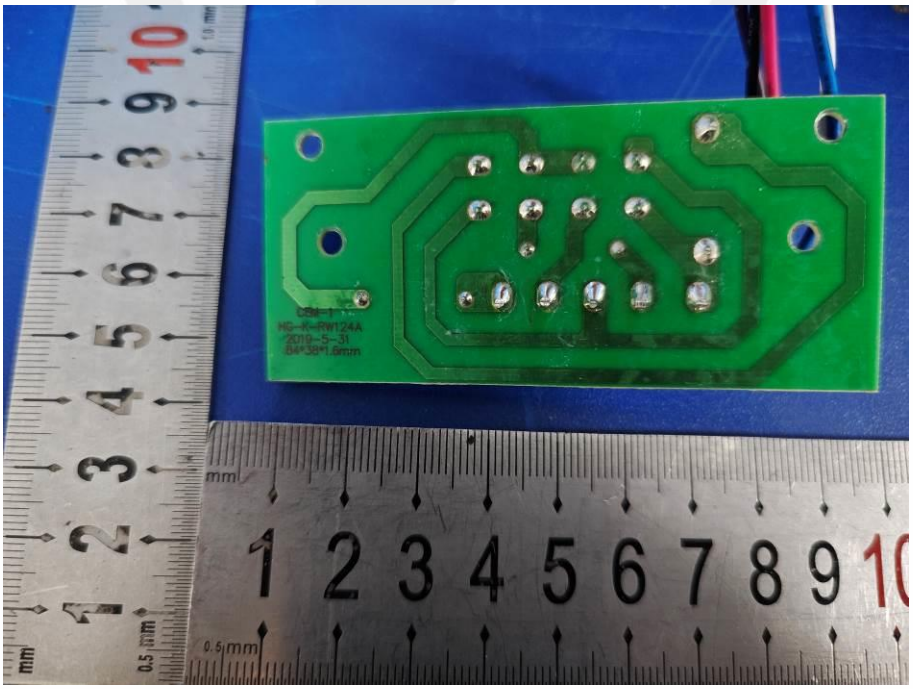


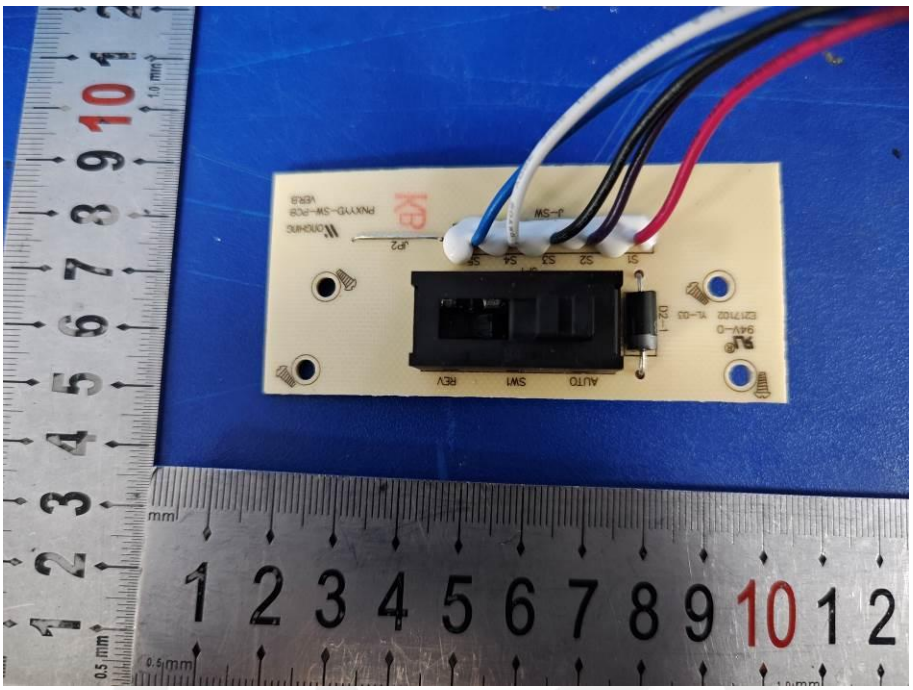
APPENDIX I
(Photos of EUT)

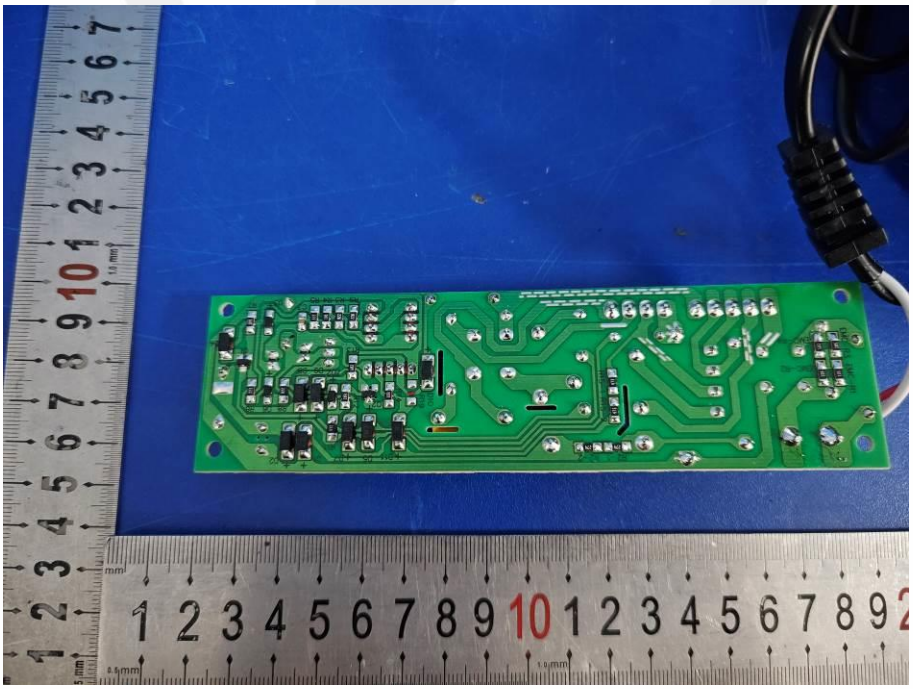


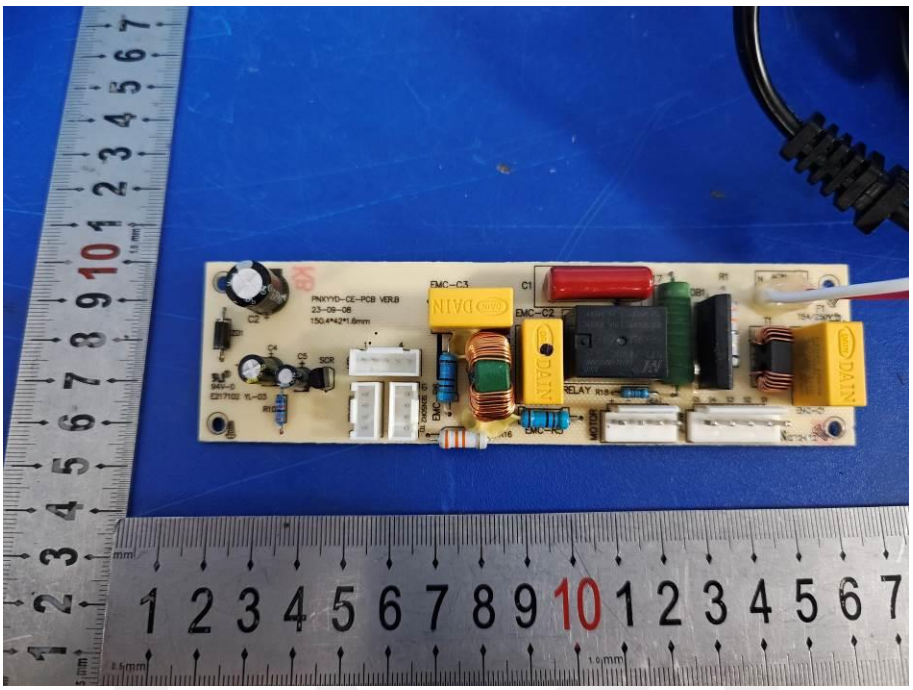


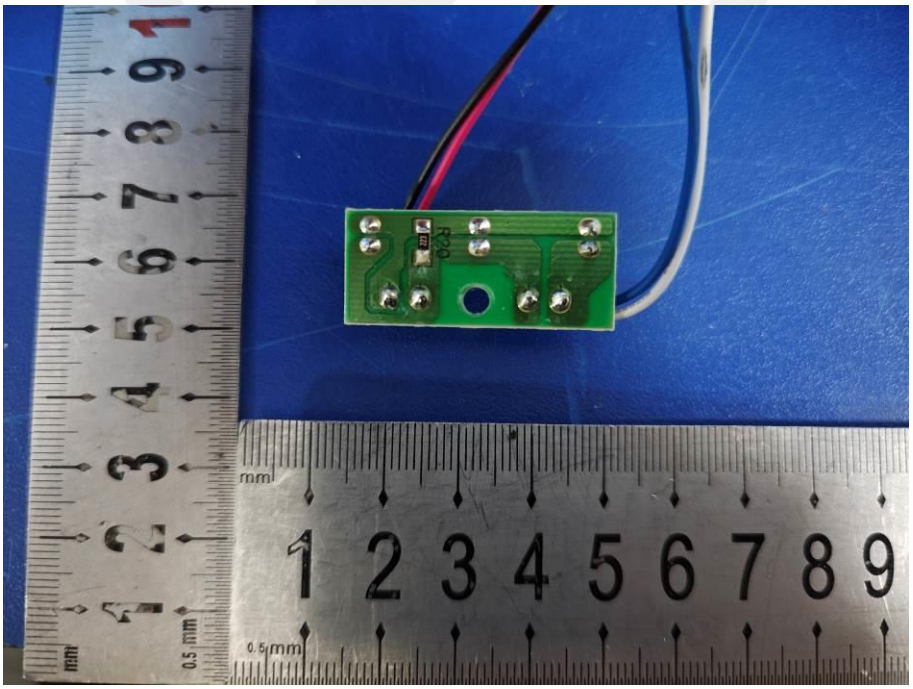


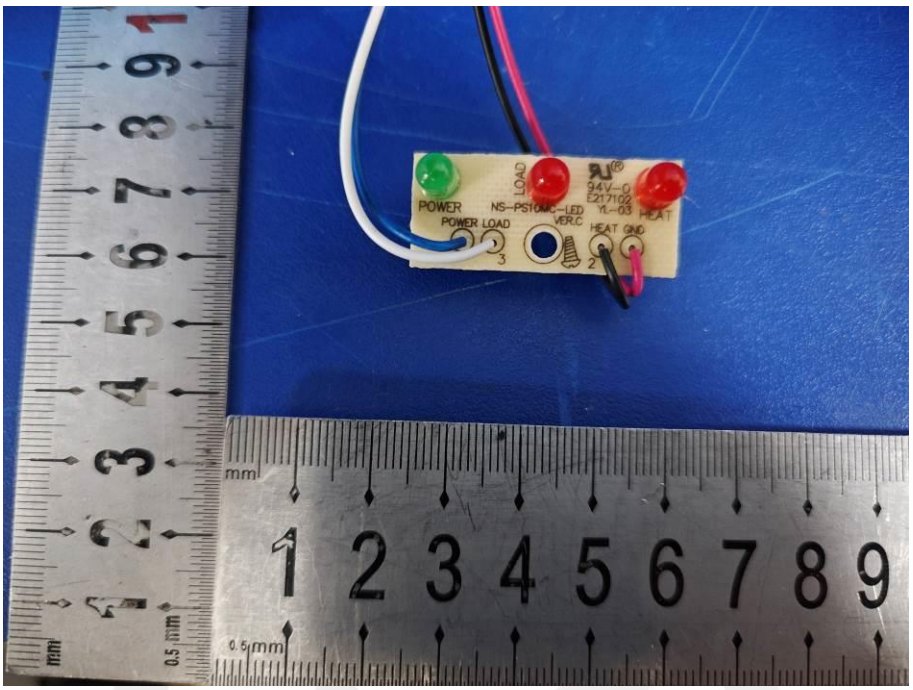



J-SW
S1
S2
S3
S4
AUTO
SW1
REV
mm
1 2 3 4 5 6 7 8 9 10 1 2


mm
1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9


PNKYD-CE-PCB VER.B
23-09-08
150.4*42*1.6mm
EMC-C3
EMC-C2
RELAY
1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7


mm
1 2 3 4 5 6 7 8 9
0.5mm



*** End of Report ***

声 明
Statement

1．本报告无授权批准人签字及“检验检测专用章”无效；

This report will be void without authorized signature or special seal for testing report.

2．未经许可本报告不得部分复制；

This report shall not be copied partly without authorization.

3．本报告的检测结果仅对送测样品有效，委托方对样品的代表性和资料的真实性负责；

The test results or observations are applicable only to tested sample. Client shall be responsible for representativeness of the sample and authenticity of the material.

4．本检测报告中检测项目标注有特殊符号则该项目不在资质认定范围内，仅作为客户委托、科研、教学或内部质量控制等目的使用；

The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.

5．本检测报告以实测值进行符合性判定，未考虑不确定度所带来的风险，本实验室不承担相关责任，特别约定、标准或规范中有明确规定的除外；

The test results or observations are provided in accordance with measured value, without taking risks caused by uncertainty into account. Without explicit stipulation in special agreements, standards or regulations, EMTEK shall not assume any responsibility.

6．对本检测报告若有异议，请于收到报告之日起 20 日内提出；

Objections shall be raised within 20 days from the date receiving the report.