

EMC TEST REPORT
For

Shenzhen Chaorui Electrical Appliance Co., Ltd.

Hair Styler

Test Model: CR-HSX-EU

Additional Model No.: CR-HSX-UK, CR-HSX-KR, CR-HS09-EU, CR-HS09-UK,
CR-HS09-KR

Prepared for	:	Shenzhen Chaorui Electrical Appliance Co., Ltd.
Address	:	505, Building A, 101 Cultural and Creative Park, Henggang Street, Longgang District, Shenzhen City, Guangdong Province, C
Prepared by	:	Shenzhen AOCE Electronic Technology Service Co., Ltd.
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Date of receipt of test sample	:	October 22, 2025
Number of tested samples	:	1
Date of Test	:	October 22, 2025 ~ October 29, 2025
Date of Report	:	October 29, 2025



EMC TEST REPORT**EN IEC 55014-1: 2021**

Requirements for household appliances, electric tools and similar apparatus -- Part 1:
Emission

EN IEC 55014-2: 2021

Requirements for household appliances, electric tools and similar apparatus -- Part 2:
Immunity - Product family standard

Report Reference No.: AOC251029104E

Date Of Issue.....: October 29, 2025

Testing Laboratory Name.....: Shenzhen AOCE Electronic Technology Service Co., Ltd.

Address.....: Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu
Industrial Park, Fuhai Street, Baoan District, Shenzhen,
Guangdong, China

Testing Location/ Procedure...: Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □

Applicant's Name.....: Shenzhen Chaorui Electrical Appliance Co., Ltd.

Address.....: 505, Building A, 101 Cultural and Creative Park, Henggang
Street, Longgang District, Shenzhen City, Guangdong
Province, C

Test Specification:

Standard.....: EN IEC 55014-1: 2021
EN IEC 61000-3-2:2019+A1:2021+A2:2024
EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022
EN IEC 55014-2: 2021

Test Report Form No.....: AOCEEMC-1.0

TRF Originator.....: Shenzhen AOCE Electronic Technology Service Co., Ltd.

Master TRF.....: Dated 2017-05

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Test Item Description.....: Hair Styler

Trade Mark.....: N/A

Test Model.....: CR-HSX-EU

Ratings..... AC 220-240V, 50/60Hz, 1200W

Result: Positive

Compiled by:

David Liu

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Kevin Huang

Kevin Huang/ Technique principal

Approved by:

Jackson Fang

Jackson Fang/ Manager

EMC -- TEST REPORT

Test Report No. : AOC251029104EOctober 29, 2025
Date of issue

Test Model..... : CR-HSX-EU

EUT..... : Hair Styler

Applicant..... : Shenzhen Chaorui Electrical Appliance Co., Ltd.Address..... : 505, Building A, 101 Cultural and Creative Park,
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Guangdong Province, C

Telephone..... : /

Fax..... : /

Manufacturer..... : Shenzhen Chaorui Electrical Appliance Co., Ltd.Address..... : 505, Building A, 101 Cultural and Creative Park,
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Telephone..... : /

Fax..... : /

Factory..... : Shenzhen Chaorui Electrical Appliance Co., Ltd.Address..... : 505, Building A, 101 Cultural and Creative Park,
Henggang Street, Longgang District, Shenzhen City,
Guangdong Province, C

Telephone..... : /

Fax..... : /

Test Result according to the standards on page 8:**Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

TABLE OF CONTENT

Test Report Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	5
1.1. Description of Standards and Results	5
1.2. Description of Performance Criteria	6
2. GENERAL INFORMATION	7
2.1. Description of Device (EUT)	7
2.2. Test Facility	7
2.3. Statement of the Measurement Uncertainty	7
2.4. Measurement Uncertainty	8
3. MEASURING DEVICES AND TEST EQUIPMENT	9
4. TEST RESULTS	11
4.1. Power Line Conducted Emission Measurement	11
4.2. Clicks Measurement	14
4.3. Disturbance Power Measurement	16
4.4. Harmonic Current Emission Measurement	18
4.5. Voltage Fluctuation And Flicker Measurement	19
4.6. Electrostatic Discharge Immunity Test	20
4.7. Electrical Fast Transient/Burst Immunity Test	23
4.8. Surge Immunity Test	26
4.9. Injected Currents Susceptibility Test	29
4.10. Voltage Dips And Interruptions Test	32
5. RADIATED EMISSION MEASUREMENT	35
5.1. Block Diagram of Test Setup	35
5.2. Measuring Standard	35
5.3. Radiated Emission Limits	35
5.4. EUT Configuration on Test	36
5.5. Operating Condition of EUT	36
5.6. Test Procedure	36
5.7. Test Results	36
6. PHOTOGRAPHS OF TEST SETUP	38
7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT	39
8. MANUFACTURER/ APPROVAL HOLDER DECLARATION	48

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION (EN IEC 55014-1: 2021)			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	EN IEC 55014-1: 2021	-----	PASS
Clicks measurement	EN IEC 55014-1: 2021	-----	PASS
Disturbance Power	EN IEC 55014-1: 2021	-----	PASS
Radiated disturbance	EN IEC 55014-1: 2021	-----	N/A
Harmonic current emissions	EN IEC 61000-3-2: 2019+A1: 2021+A2: 2024	Class A	PASS
Voltage fluctuations & flicker	EN 61000-3-3: 2013+A1: 2019+A2: 2021+AC: 2022	-----	PASS
IMMUNITY (EN IEC 55014-2: 2021)			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	EN 61000-4-2: 2009	B	PASS
Radio-frequency, Continuous radiated disturbance	EN 61000-4-3: 2020	A	N/A
Electrical fast transient (EFT)	EN 61000-4-4: 2012	B	PASS
Surge (Input a.c. power ports)	EN 61000-4-5: 2014+A1: 2017	B	PASS
Radio-frequency, Continuous conducted disturbance	EN 61000-4-6: 2014	A	PASS
Power frequency magnetic field	EN 61000-4-8: 2010	A	N/A
Voltage dips, 60% reduction	EN 61000-4-11: 2020	C	PASS
Voltage dips, 30% reduction		C	PASS
Voltage interruptions		C	PASS
N/A is an abbreviation for Not Applicable.			

Test mode:

Mode 1	Normal operation	Record
--------	------------------	--------

1.2. Description of Performance Criteria

General Performance Criteria

Examples of functions defined by the manufacturer to be evaluated during testing include, but are not limited to, the following:

- essential operational modes and states;
- tests of all peripheral access (hard disks, floppy disks, printers, keyboard, mouse, etc.);
- quality of software execution;
- quality of data display and transmission;
- quality of speech transmission.

1.2.1. Performance criterion A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacture when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deliver from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

1.2.2. Performance criterion B

After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacture, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

During the test, degradation of performance is allowed. However, no change of operation state or stored data is allowed to persist after the test.

If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be deliver from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

1.2.3. Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacture's instructions.

Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be loss.

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	: Hair Styler
Trade Mark	: N/A
Test Model	: CR-HSX-EU
Power Supply	: AC 220-240V, 50/60Hz, 1200W

2.2. Test Facility

EMC Lab.	:
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2.3. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the AOCE quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.4.Measurement Uncertainty

Test	Parameters	Expanded uncertainty (Ulab)	Expanded uncertainty (Ucisp)
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Power Disturbance	Level accuracy (30MHz to 300MHz)	± 2.90 dB	± 4.5 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	± 3.60 dB	± 3.3 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB
Mains Harmonic	Voltage	$\pm 0.510\%$	N/A
Voltage Fluctuations & Flicker	Voltage	$\pm 0.510\%$	N/A
EMF		$\pm 21.59\%$	N/A

- (1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.
- (2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

3. MEASURING DEVICES AND TEST EQUIPMENT

3.1. Conducted Disturbance

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Software	AUDIX	E3	/	N/A
2	EMI Test Receiver	R&S	ESPI	101840	2025/04/13
3	Artificial Mains	R&S	ENV216	101288	2025/04/13
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-003 2	2025/04/13

3.2. Disturbance Power

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Software	AUDIX	E3	/	N/A
2	EMI Test Receiver	R&S	ESPI	101840	2025/04/13
3	Absorbing clamp	R&S	MDS 21	4033	2025/04/13
4	6dB Attenuator	/	/	50FP-006-H3B	2025/04/13

3.3. Harmonic Current

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power Analyzer Test System	Voltech	PM6000	20000670053	2025/04/13

3.4. Voltage fluctuation and Flicker

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power Analyzer Test System	Voltech	PM6000	20000670053	2025/04/13

3.5. Electrostatic Discharge

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ESD Simulator	SCHLODER	SESD 230	604035	2025/04/13

3.6. Electrical Fast Transient/Burst

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Immunity Simulative Generator	EM TEST	UCS500 M4	0101-34	2025/04/13

3.7. Surge

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Surge test system	EM test	UCS500 M4	0101-34	2025/04/13

3.8. Conducted Susceptibility

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Simulator	FRANKONIA	CIT-10/75	A126A1195	2025/04/13
2	CDN	FRANKONIA	CDN-M2+M 3	A2210177	2025/04/13
3	6dB Attenuator	FRANKONIA	DAM25W	1172040	2025/04/13

3.9.Voltage Dips

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Voltage dips and up generator	3CTEST	VDG-1105G	EC0171014	2025/04/13

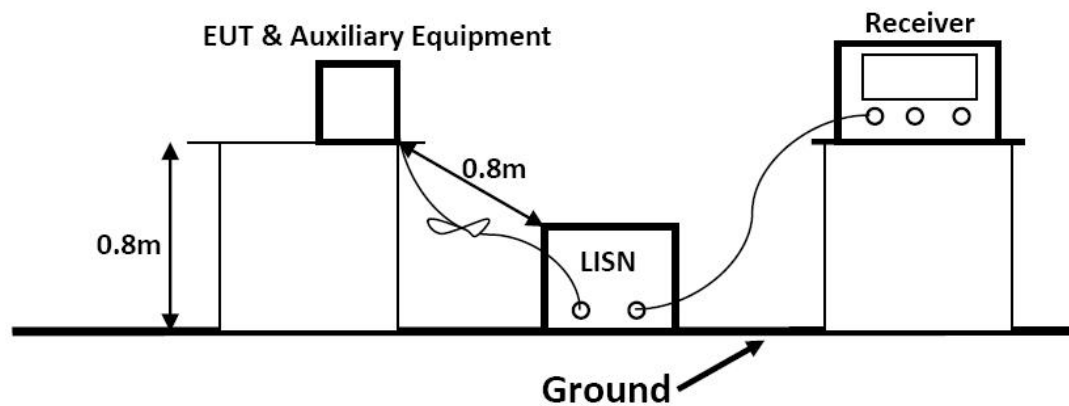
3.10.Voltage Short Interruptions

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Voltage dips and up generator	3CTEST	VDG-1105G	EC0171014	2025/04/13

4. TEST RESULTS

4.1. Power Line Conducted Emission Measurement

4.1.1. Block Diagram of Test Setup



4.1.2. Power Line Conducted Emission Limits

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	59.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Remark: * means decreasing linearly with logarithm of frequency.

4.1.3. EUT Configuration on Test

The following equipments are installed on Conducted Emission Measurement to meet EN IEC 55014-1 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

4.1.4. Operating Condition of EUT

4.1.4.1. Setup the EUT as shown on Section 4.1.1.

4.1.4.2. Turn on the power of all equipments.

4.1.4.3. Let the EUT work in measuring Mode 1 and measure it.

4.1.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through a Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the EN IEC 55014-1 regulations during conducted emission measurement.

The bandwidth of the field strength meter is set at 9kHz.

The frequency range from 150kHz to 30MHz is investigated. The scanning waveform please refer to the next page.

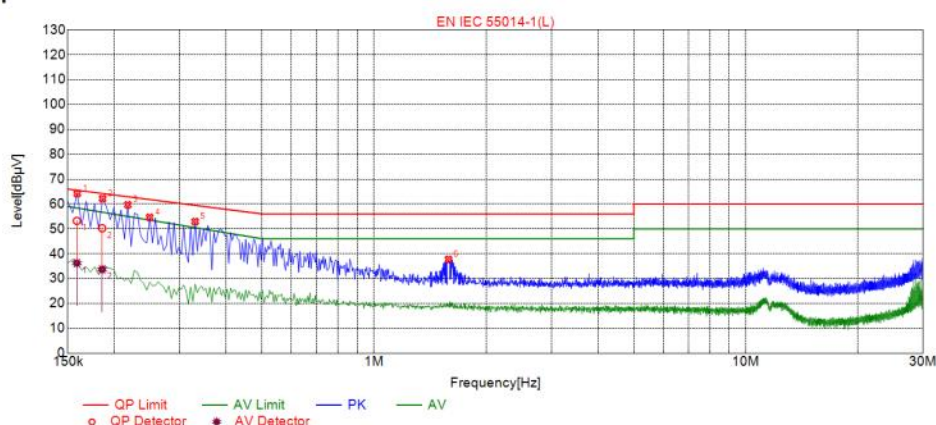
4.1.6. Test Results

PASS.

The frequency range 150kHz to 30MHz is investigated.

Test Model	CR-HSX-EU	Test Mode	Mode 1
Pol	Line	Test Engineer	Andy

Test Graph

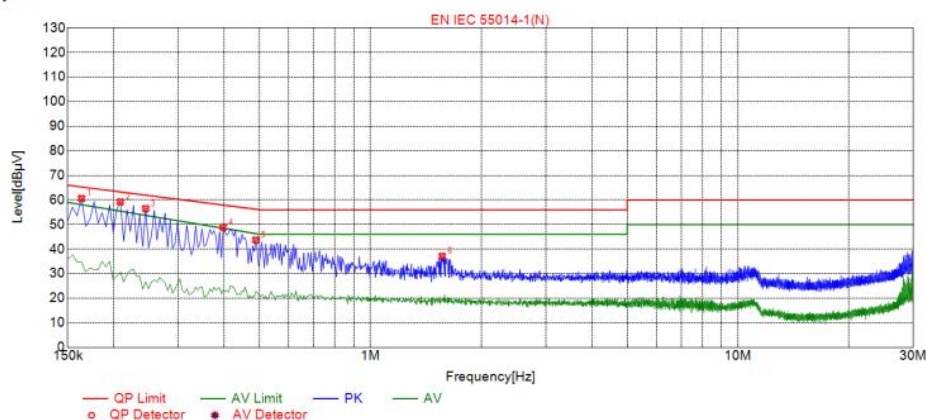


Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1590	64.22	19.56	65.52	1.30	44.66	PK	L
2	0.1860	62.16	19.76	64.21	2.05	42.40	PK	L
3	0.2175	59.67	19.85	62.91	3.24	39.82	PK	L
4	0.2490	54.64	19.84	61.79	7.15	34.80	PK	L
5	0.3300	52.92	19.84	59.45	6.53	33.08	PK	L
6	1.5855	37.74	19.99	56.00	18.26	17.75	PK	L

Test Model	CR-HSX-EU	Test Mode	Mode 1
Pol	Neutral	Test Engineer	Andy

Test Graph



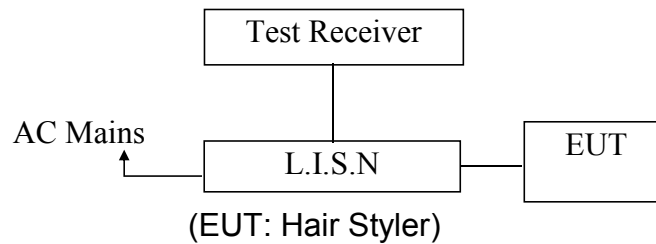
Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1635	60.59	19.58	65.28	4.69	41.01	PK	N
2	0.2085	59.21	19.64	63.26	4.05	39.57	PK	N
3	0.2445	56.45	19.65	61.94	5.49	36.80	PK	N
4	0.3975	48.82	19.70	57.91	9.09	29.12	PK	N
5	0.4875	43.70	19.74	56.21	12.51	23.96	PK	N
6	1.5675	37.12	19.87	56.00	18.88	17.25	PK	N

Note: Pre-Scan all mode, Thus record worse case mode result in this report.

4.2. Clicks Measurement

4.2.1. Block Diagram of Test Setup



4.2.2. Clicks Measurement Standard and limit

4.2.2.1. Test Standard

EN IEC 55014-1: 2021

4.2.2.2. Test Limit

According to standard EN IEC 55014-1, if click rate (N) less 5/min and the time of this discontinuous disturbances does not exceed 10ms, then the limit value are omitted.

4.2.3. EUT Configuration on Test

The configuration of EUT is same as Section 4.2.1.

4.2.4. Operating Condition of EUT

4.2.4.1. Setup the EUT as shown Section 4.2.1.

4.2.4.2. Turn on the power of all equipments.

4.2.4.3. After that, let EUT work in test Mode 1 and measure it.

4.2.5. 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: 150kHz, 500kHz, 1.4MHz and 30MHz. 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.

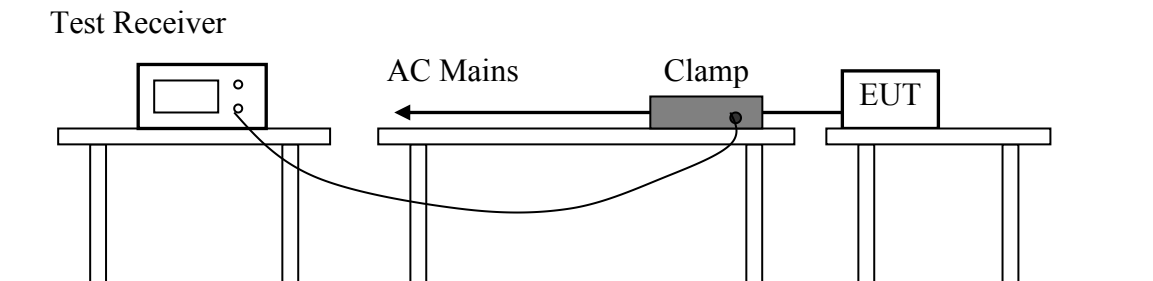
4.2.6. Test Results

PASS.

The click rate ($N=1/2.1=0.48<5$) of the EUT is less than 5/min and the time of this discontinuous disturbances ($\Delta T=4\text{ms}<10\text{ms}$) does not exceed 10ms. According to EN IEC 55014-1, the limit values are omitted.

4.3. Disturbance Power Measurement

4.3.1. Block Diagram of Test Setup



4.3.2. Test Standard

EN IEC 55014-1: 2021

4.3.3. Disturbance Power Limits

All emanations from devices or system including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified below:

Frequency MHz	Limits dB(pW)	
	Quasi-peak Value	Average Value
30 ~ 300	45 Increasing Linearly with Frequency to 55	35 Increasing Linearly with Frequency to 45

	Household and similar appliances		Tools					
1	2	3	4	5	6	7	8	9
Frequency range			Rated motor power not exceeding 700 W		Rated motor power above 700 W and not exceeding 1000 W		Rated motor power above 1000 W	
(MHz)	dB (pW) Quasi-peak	dB (pW) Average	dB (pW) Quasi-peak	dB (pW) Average	dB (pW) Quasi-peak	dB (pW) Average	dB (pW) Quasi-peak	dB (pW) Average
Increasing linearly with the frequency from:								
200 to 300	0 to 10 dB	-	0 to 10 dB	-	0 to 10 dB	-	0 to 10 dB	-
NOTE 1 This table only applies if specified in 4.1.2.3.2.								
NOTE 2 The measured result at a particular frequency shall be less than the relevant limit minus the corresponding margin (at that frequency).								

4.3.4.EUT Configuration on Test

The EN IEC 55014-1 Regulations test method must be used to find the maximum emission during radiated emission measurement. The configuration of the EUT is the same as used in conducted emission measurement.

4.3.5.Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 4.1.1 except the test set up replaced as Section 4.3.1.

4.3.6.Test Procedure

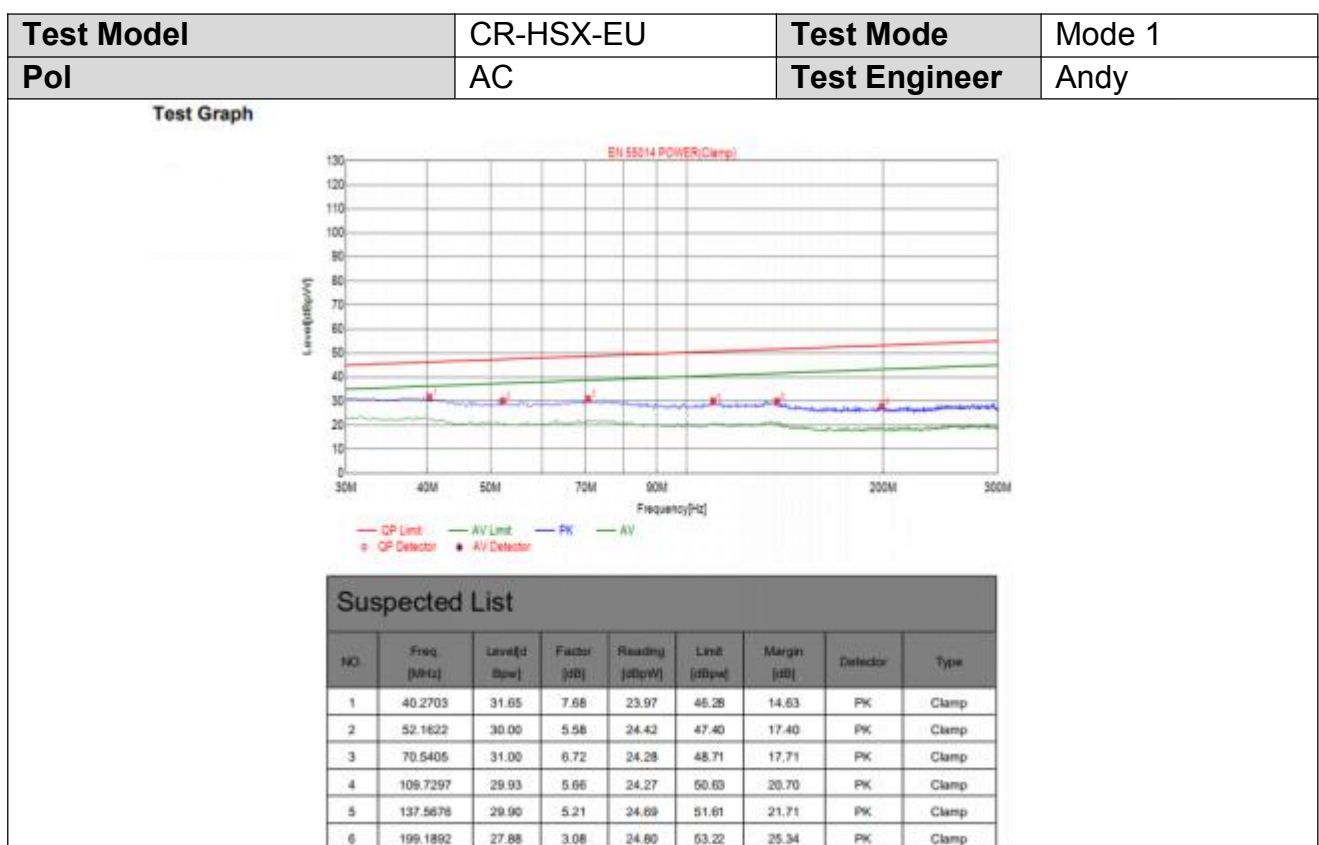
The EUT is placed on the plane 0.8m high above the ground by insulating support and away from other metallic surface at least 0.4m. It is connected to the power mains through an extension cord of 6m min. The absorber clamp clamps the cord and moves from the far end to the EUT to measure the disturbing energy emitted from the cord.

The bandwidth of the field strength meter is set at 120kHz.
All the test results are listed in Section 4.3.7.

4.3.7.Test Results

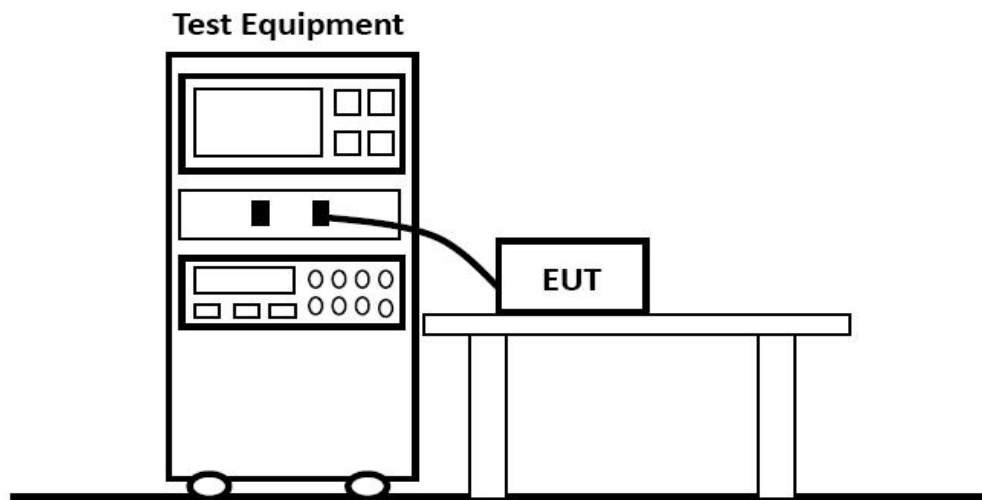
PASS.

The frequency spectrum from 30 MHz to 300 MHz is investigated.



4.4. Harmonic Current Emission Measurement

4.4.1. Block Diagram of Test Setup



4.4.2. Test Standard

EN IEC 61000-3-2: 2019+A1: 2021+A2: 2024, Class A

4.4.3. Operation Condition of EUT

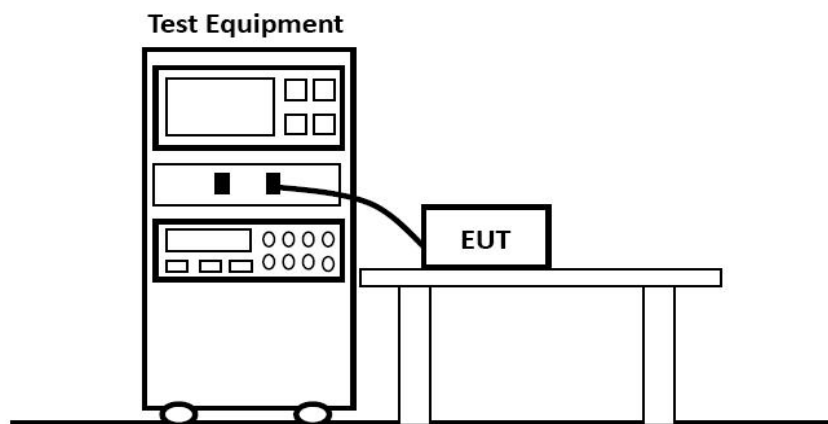
Same as Section 4.1.4 except the test setup replaced as Section 4.4.1.

4.4.4. Test Results

PASS

4.5. Voltage Fluctuation And Flicker Measurement

4.5.1. Block Diagram of Test Setup



4.5.2. Test Standard

EN 61000-3-3: 2013+A1: 2019+A2: 2021+AC: 2022

4.5.3. Operation Condition of EUT

4.5.3.1. Setup the EUT as shown Section 4.5.1.

4.5.3.2. Turn on the power of all equipments.

4.5.3.3. Let EUT work in test mode (On/Off) and measure it.

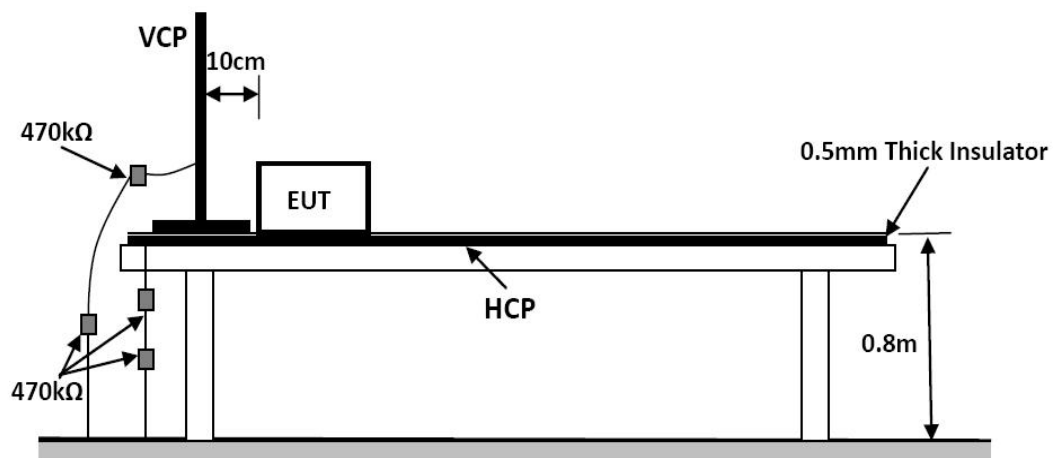
4.5.4. Test Results

PASS.

Test Model		CR-HSX-EU		Test Engineer		Andy	
Overall Result:		Notes:					
PASS		Measurement method - Voltage					

4.6. Electrostatic Discharge Immunity Test

4.6.1. Block Diagram of Test Setup



4.6.2. Test Standard

EN IEC 55014-2: 2021(EN 61000-4-2: 2009, Severity Level: 3 / Air Discharge: $\pm 8\text{KV}$; Level: 2 / Contact Discharge: $\pm 4\text{KV}$)

4.6.3. Severity Levels and Performance Criterion

4.6.3.1. Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	± 2	± 2
2.	± 4	± 4
3.	± 6	± 8
4.	± 8	± 15
X	Special	Special

4.6.3.2. Performance criterion: **B**

4.6.4. EUT Configuration on Test

The configuration of EUT are listed in Section 4.6.1.

4.6.5. Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 4.1.4, except the test set up replaced by Section 4.6.1.

4.6.6. Test Procedure

4.6.6.1. Air Discharge

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

4.6.6.2. Contact Discharge

All the procedure shall be same as Section 4.6.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

4.6.6.3. Indirect Discharge For Horizontal Coupling Plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

4.6.6.4. Indirect Discharge For Vertical Coupling Plane

At least 10 single discharges (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

4.6.7. Test Results

PASS.

Please refer to the next page.

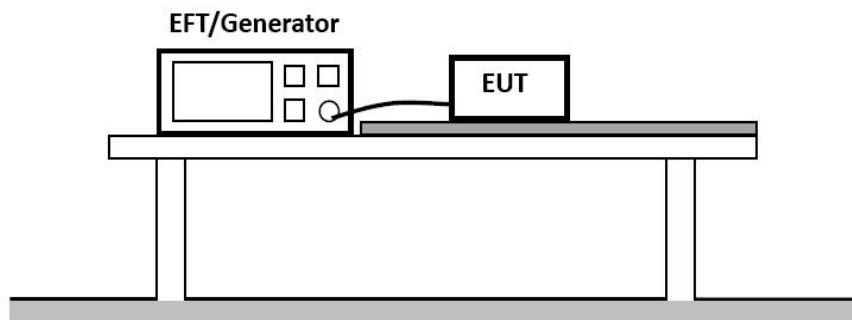
Electrostatic Discharge Test Results

Standard	☐ IEC 61000-4-2 ☒ EN 61000-4-2		
Applicant	Shenzhen Chaorui Electrical Appliance Co., Ltd.		
EUT	Hair Styler	Temperature	25°C
M/N	CR-HSX-EU	Humidity	50%
Criterion	B	Pressure	1021mbar
Test Mode	Mode 1	Test Engineer	Andy

Air Discharge						
Test Points	Test Levels			Results		
	± 2kV	± 4kV	± 8kV	Passed	Fail	Performance Criterion
Front	☒	☒	☒	☒	☐	☐ A ☒ B
Back	☒	☒	☒	☒	☐	☐ A ☒ B
Left	☒	☒	☒	☒	☐	☐ A ☒ B
Right	☒	☒	☒	☒	☐	☐ A ☒ B
Top	☒	☒	☒	☒	☐	☐ A ☒ B
Bottom	☒	☒	☒	☒	☐	☐ A ☒ B
Contact Discharge						
Test Points	Test Levels		Results			
	± 2 kV	±4 kV	Passed	Fail	Performance Criterion	
Front	☒	☒	☒	☐	☐ A ☒ B	
Back	☒	☒	☒	☐	☐ A ☒ B	
Left	☒	☒	☒	☐	☐ A ☒ B	
Right	☒	☒	☒	☐	☐ A ☒ B	
Top	☒	☒	☒	☐	☐ A ☒ B	
Bottom	☒	☒	☒	☐	☐ A ☒ B	
Discharge To Horizontal Coupling Plane						
Side of EUT	Test Levels		Results			
	± 2 kV	± 4 kV	Passed	Fail	Performance Criterion	
Front	☒	☒	☒	☐	☐ A ☒ B	
Back	☒	☒	☒	☐	☐ A ☒ B	
Left	☒	☒	☒	☐	☐ A ☒ B	
Right	☒	☒	☒	☐	☐ A ☒ B	
Discharge To Vertical Coupling Plane						
Side of EUT	Test Levels		Results			
	± 2 kV	± 4 kV	Passed	Fail	Performance Criterion	
Front	☒	☒	☒	☐	☐ A ☒ B	
Back	☒	☒	☒	☐	☐ A ☒ B	
Left	☒	☒	☒	☐	☐ A ☒ B	
Right	☒	☒	☒	☐	☐ A ☒ B	

4.7. Electrical Fast Transient/Burst Immunity Test

4.7.1. Block Diagram of Test Setup



4.7.2. Test Standard

EN IEC 55014-2: 2021 (EN 61000-4-4: 2012, Severity Level: Level 2: 1KV)

4.7.3. Severity Levels and Performance Criterion

4.7.3.1. Severity level

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1.	0.50KV	0.25KV
2.	1.00KV	0.50KV
3.	2.00KV	1.00KV
4.	4.00KV	2.00KV
X	Special	Special

4.7.3.2. Performance criterion: **B**

4.7.4. EUT Configuration on Test

The configuration of EUT are listed in Section 4.7.1.

4.7.5. Operating Condition of EUT

4.7.5.1. Setup the EUT as shown in Section 4.7.1.

4.7.5.2. Turn on the power of all equipments.

4.7.5.3. Let the EUT work in test Mode 1 and measure it.

4.7.6.Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

4.7.6.1.For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

4.7.6.2.For signal lines and control lines ports:

No I/O ports. It's unnecessary to test.

4.7.6.3.For DC output line ports:

No DC output ports. It's unnecessary to test.

4.7.7.Test Results

PASS.

Please refer to the following page.

Electrical Fast Transient/Burst Test Results

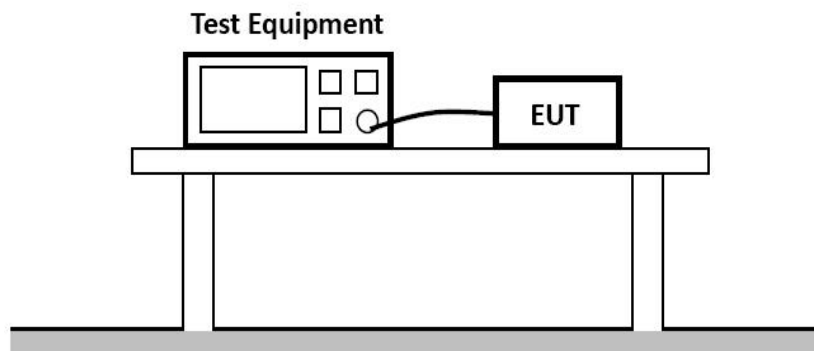
Standard	☐ IEC 61000-4-4 ☒ EN 61000-4-4		
Applicant	Shenzhen Chaorui Electrical Appliance Co., Ltd.		
EUT	Hair Styler	Temperature	25°C
M/N	CR-HSX-EU	Humidity	50%
Test Mode	Mode 1	Criterion	B
Test Engineer	Andy		

Line	Test Voltage	Result (+)	Result (-)
L	1KV	PASS	PASS
N	1KV	PASS	PASS
PE			
L-N	1KV	PASS	PASS
L-PE			
N-PE			
L-N-PE			
Signal Line			
I/O Cable			

Note:

4.8. Surge Immunity Test

4.8.1. Block Diagram of Test Setup



4.8.2. Test Standard

EN IEC 55014-2: 2021

(EN 61000-4-5: 2014+A1 : 2017, Severity Level: Level 2, Line to Line: 1.0KV; Level 3: Line to Ground: 2.0KV)

4.8.3. Severity Levels and Performance Criterion

4.8.3.1. Severity level

Severity Level	Open-Circuit Test Voltage (KV)
1	0.5
2	1.0
3	2.0
4	4.0
X	Special

4.8.3.2. Performance criterion: **B**

4.8.4. EUT Configuration on Test

The configuration of EUT are listed in Section 4.8.1.

4.8.5. Operating Condition of EUT

4.8.5.1. Setup the EUT as shown in Section 4.8.1.

4.8.5.2. Turn on the power of all equipments.

4.8.5.3. Let the EUT work in test Mode 1 and measure it.

4.8.6.Test Procedure

4.8.6.1.Set up the EUT and test generator as shown on Section 4.8.1.

4.8.6.2.For line to line coupling mode, provide a 1.0 KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.

4.8.6.3. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test

4.8.6.4.Different phase angles are done individually.

4.8.6.5.Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

4.8.7.Test Results

PASS.

Please refer to the following pages

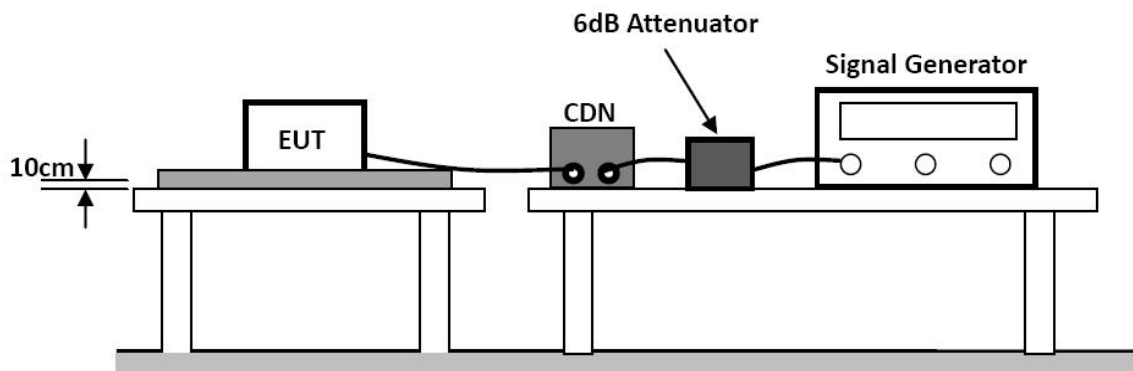
Surge Immunity Test Result

Standard	☐ IEC 61000-4-5 ☒ EN 61000-4-5		
Applicant	Shenzhen Chaorui Electrical Appliance Co., Ltd.		
EUT	Hair Styler	Temperature	25℃
M/N	CR-HSX-EU	Humidity	50%
Test Mode	Mode 1	Criterion	B
Test Engineer	Andy		

Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Result
L-N	+	90°	5	1.0	PASS
	-	270°	5	1.0	PASS
L-PE					
N-PE					
Signal Line					
Note					

4.9. Injected Currents Susceptibility Test

4.9.1. Block Diagram of Test Setup



4.9.2. Test Standard

EN IEC 55014-2: 2021(EN 61000-4-6: 2014, Severity Level: 3V (rms), (0.15MHz ~ 230MHz))

4.9.3. Severity Levels and Performance Criterion

4.9.3.1. Severity level

Level	Field Strength (V)
1	1
2	3
3	10
X	Special

4.9.3.2. Performance criterion: **A**

4.9.4. EUT Configuration on Test

The configuration of EUT are listed in Section 4.9.1.

4.9.5. Operating Condition of EUT

4.9.5.1. Setup the EUT as shown in Section 4.9.1.

4.9.5.2. Turn on the power of all equipments.

4.9.5.3. Let the EUT work in test Mode 1 and measure it.

4.9.6. Test Procedure

4.9.6.1. Set up the EUT, CDN and test generators as shown on Section 4.9.1.

4.9.6.2. Let the EUT work in test mode and measure it.

4.9.6.3. The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).

4.9.6.4. The disturbance signal described below is injected to EUT through CDN.

4.9.6.5. The EUT operates within its operational mode(s) under intended climatic conditions after power on.

4.9.6.6. The frequency range is swept from 150kHz to 230MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1kHz sine wave.

4.9.6.7. The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.

4.9.6.8. Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

4.9.7. Test Results

PASS.

Please refer to the following pages

Injected Currents Susceptibility Test Results

Standard	☐ IEC 61000-4-6 ☒ EN 61000-4-6		
Applicant	Shenzhen Chaorui Electrical Appliance Co., Ltd.		
EUT	Hair Styler	Temperature	25℃
M/N	CR-HSX-EU	Humidity	50%
Test Mode	Mode 1	Criterion	A
Test Engineer	Andy		

Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result
0.15 ~ 230	AC Mains	3V	A	PASS

Remark:

1. Modulation Signal: 1kHz 80% AM

2. Measurement Equipment :

Simulator: CIT-10 (FRANKONIA)

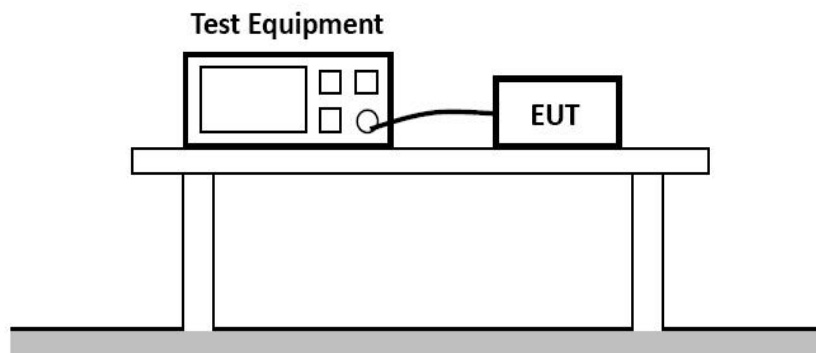
CDN : ☒ CDN-M2 (SWITZERLAND EMTEST)

☐ CDN-M3 (SWITZERLAND EMTEST)

Note:

4.10. Voltage Dips And Interruptions Test

4.10.1. Block Diagram of Test Setup



4.10.2. Test Standard

EN IEC 55014-2: 2021 (EN 61000-4-11: 2020)

4.10.3. Severity Levels and Performance Criterion

4.10.3.1. Severity level

Test Level (%U _T)	Voltage dip and short interruptions (%U _T)	Duration (in period)	
0	100	0.5	0.6
40	60	10	12
70	30	25	60

4.10.3.2. Performance criterion: **C&C**

4.10.4. EUT Configuration on Test

The configuration of EUT are listed in Section 4.10.1.

4.10.5. Operating Condition of EUT

4.10.5.1. Setup the EUT as shown in Section 4.10.1.

4.10.5.2. Turn on the power of all equipments.

4.10.5.3. Let the EUT work in test Mode 1 and measure it.

4.10.6.Test Procedure

4.10.6.1.Set up the EUT and test generator as shown on Section 4.10.1.

4.10.6.2.The interruptions is introduced at selected phase angles with specified duration.

4.10.6.3.Record any degradation of performance.

4.10.7.Test Results

PASS.

Please refer to the following page.

Voltage Dips And Interruptions Test Results

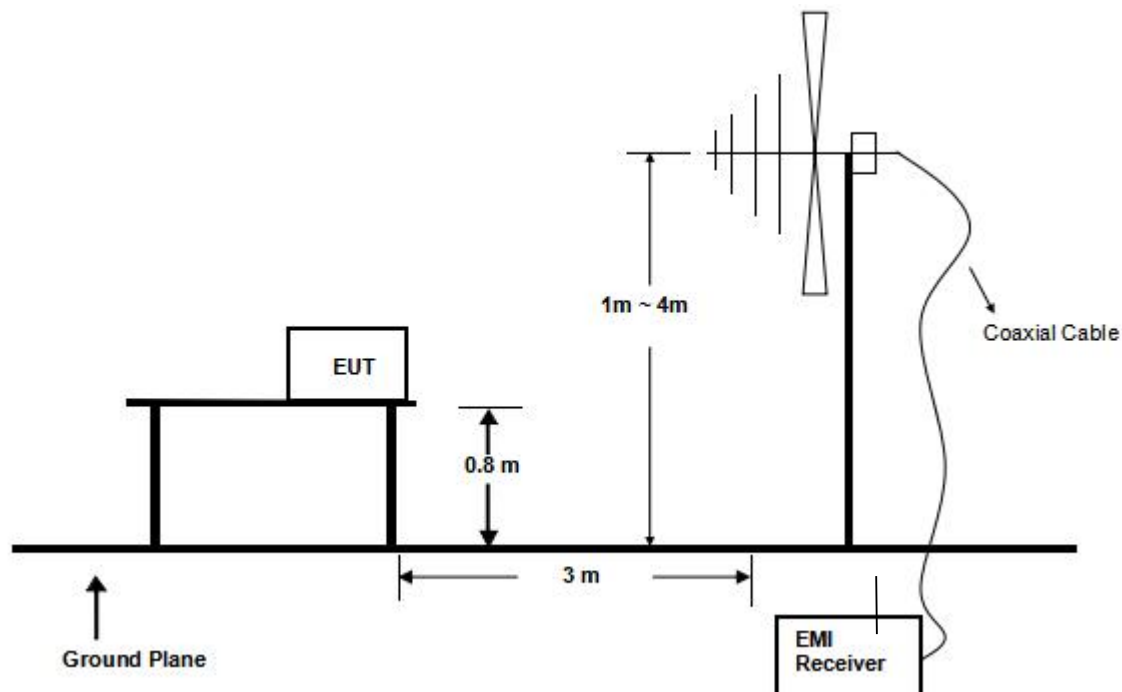
Standard	☐ IEC 61000-4-11 ☒ EN 61000-4-11		
Applicant	Shenzhen Chaorui Electrical Appliance Co., Ltd.		
EUT	Hair Styler	Temperature	25°C
M/N	CR-HSX-EU	Humidity	50%
Test Mode	Mode 1	Criterion	C&C
Test Engineer	Andy		

Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)		Criterion	Result
		50Hz	60Hz		
40	60	10P	12P	C	PASS
70	30	25P	60P	C	PASS
0	100	0.5P	0.6P	C	PASS

Note:

5. RADIATED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



5.2. Measuring Standard

EN IEC 55014-1:2017+A11:2020

5.3. Radiated Emission Limits

EN 55032: 2015 Limits:

All emanations from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dB μ V/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note:

1. The smaller limit shall apply at the combination point between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

5.4.EUT Configuration on Test

The EN 55032 regulations test method must be used to find the maximum emission during radiated emission measurement.

5.5.Operating Condition of EUT

4.5.1 Turn on the power.

4.5.2 After that, let the EUT work in test mode (ON) and measure it.

5.6.Test Procedure

The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. By-log antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the Receiver is set at 120kHz.

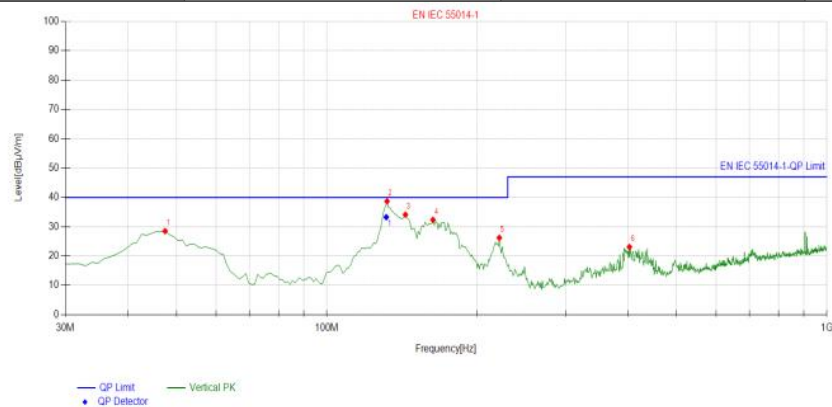
The frequency range from 30MHz to 1000MHz is investigated.

5.7.Test Results

PASS.

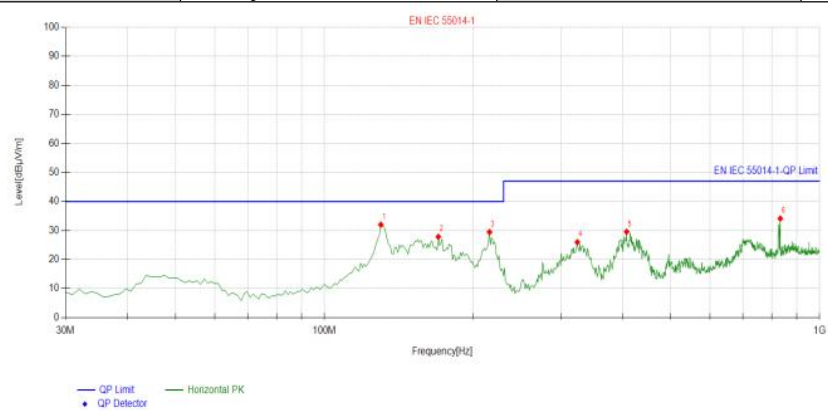
The test result please refer to the next page.

Model No.	CR-HSX-EU	Test Date	October 29, 2025
Environmental Conditions	24°C / 56% RH	Test Mode	On
Pol	Vertical	Detector Function	Quasi-peak
Test Engineer	Andy	Distance	3m



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.477477	-17.23	45.74	28.51	40.00	11.49	100	35	Vertical
2	131.95195	-18.36	57.04	38.68	40.00	1.32	100	347	Vertical
3	143.60360	-17.64	51.75	34.11	40.00	5.89	100	185	Vertical
4	163.02302	-17.44	49.80	32.36	40.00	7.64	100	2	Vertical
5	221.28128	-20.80	47.02	26.22	40.00	13.78	100	349	Vertical
6	402.85285	-14.97	38.06	23.09	47.00	23.91	100	161	Vertical

Model No.	CR-HSX-EU	Test Date	October 29, 2025
Environmental Conditions	24°C / 56% RH	Test Mode	Charging
Pol	Horizontal	Detector Function	Quasi-peak
Test Engineer	Andy	Distance	3m



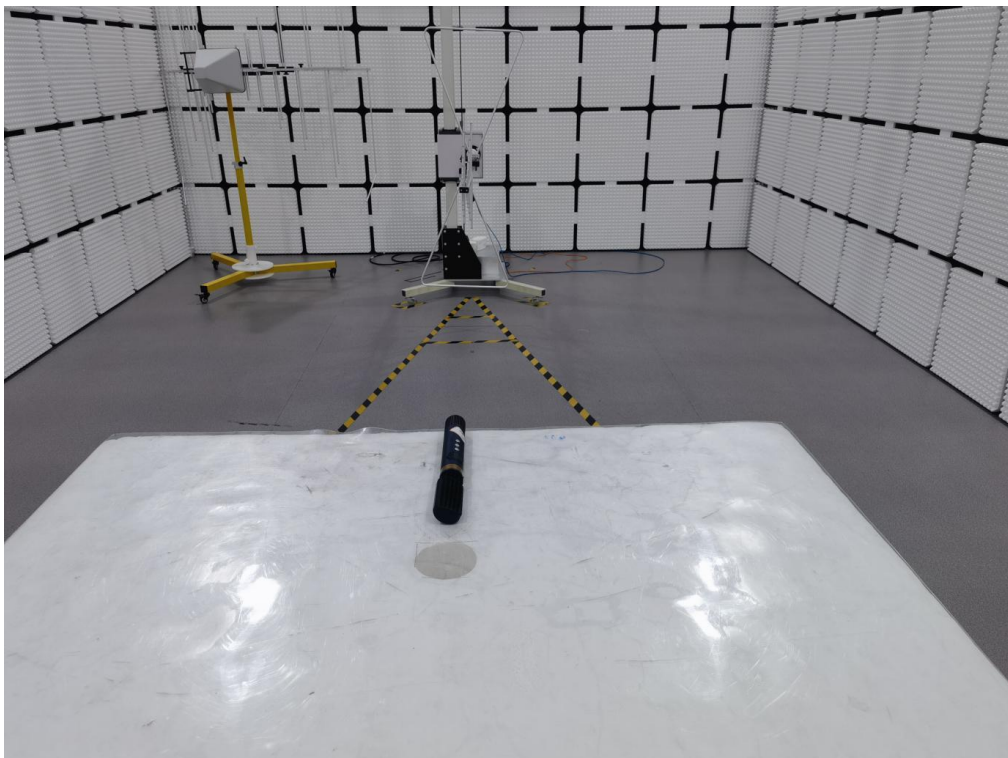
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	130.01001	-18.43	50.44	32.01	40.00	7.99	100	255	Horizontal
2	169.81982	-17.43	45.25	27.82	40.00	12.18	100	105	Horizontal
3	215.45545	-20.92	50.38	29.46	40.00	10.54	100	257	Horizontal
4	324.20420	-16.95	42.94	25.99	47.00	21.01	100	257	Horizontal
5	407.70770	-14.84	44.41	29.57	47.00	17.43	100	253	Horizontal
6	832.99299	-7.32	41.43	34.11	47.00	12.89	100	260	Horizontal

6. PHOTOGRAPHS OF TEST SETUP

6.1.Photo of Power Line Conducted Measurement



6.2.Photo of Disturbance Power Measurement



7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT



Fig.1



Fig.2



Fig.3

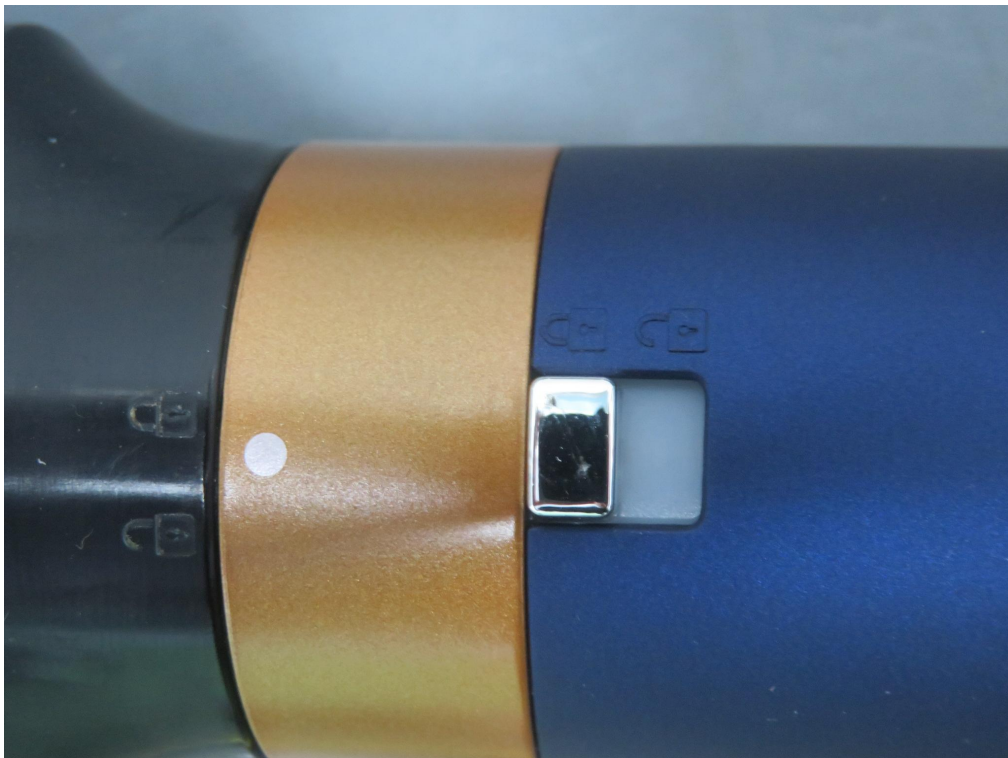


Fig.4

-----THE END OF TEST REPORT-----