FCC Supplier's Declaration of Conformity (SDoC) Test Report

For

Wenzhou Lingzhan Technology Co., LTD

Electric Grill Brush

Test Model: LZ-8057

Prepared for	:	Wenzhou Lingzhan Technology Co., LTD
Address	:	988 Lingzhan Road, Lingkun Street, Oujiangkou Industrial Cluster Zone, Wenzhou, Zhejiang
Prepared by	:	Ningbo LCS Standard Technology Service Co., Ltd.
Address	:	Room 101-106/202-206, Building 037, No. 166, Jinghua Road, Meixu Street, Ningbo High-tech Zone, Yinzhou District, Ningbo, Zhejiang, China
Tel	:	(0574) 8790 8011
Fax	:	(0574) 8790 6976
Web	:	www.LCS-cert.com
Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	August 12, 2025
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	August 12, 2025 - August 15, 2025
Date of Report	:	August 15, 2025

FCC SDoC TEST REPORT

CFR47 FCC Part 15 Subpart B

Radio Frequency Devices - Unintentional Radiators

Report Number.....:	**LCSE08075009E**
Date of Issue.....:	August 15, 2025
Testing Laboratory Name.....:	**Ningbo LCS Standard Technology Service Co., Ltd.**
Address.....:	Room 101-106/202-206, Building 037, No. 166, Jinghua Road, Meixu Street, Ningbo High-tech Zone, Yinzhou District, Ningbo, Zhejiang, China
Testing Procedure.....:	Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing method ☐
Applicant's Name.....:	**Wenzhou Lingzhan Technology Co., LTD**
Address.....:	988 Lingzhan Road, Lingkun Street, Oujiangkou Industrial Cluster Zone, Wenzhou, Zhejiang
Test Specification:	
Standard.....:	CFR47 FCC Part 15 Subpart B ANSI C63.4-2014
Test Report Form No.....:	TRF-4-E-001 A/0
TRF Originator.....:	Ningbo LCS Standard Technology Service Co., Ltd.
Master TRF.....:	Dated 2019-03

Equipment Under Test.....:	**Electric Grill Brush**
Trademark.....:	N/A
Test Model/Type.....:	LZ-8057
Rating.....:	USB Input: DC 5V, 1A; Battery: DC 3.7V, 2500mAh, 25W
Results .....:	**PASS**

Compiled by:	**Supervised by:**	**Approved by:**
Lorrain Li / Engineer	Wen Li / Technique Director	Feng Liang / Manager

FCC SDoC - TEST REPORT

Test Report No.....:	**LCSE08075009E**

Applicant.....:	**Wenzhou Lingzhan Technology Co., LTD**
Address.....:	988 Lingzhan Road, Lingkun Street, Oujiangkou Industrial Cluster Zone, Wenzhou, Zhejiang
Telephone.....:	/
Fax.....:	/
Manufacturer.....:	**Wenzhou Lingzhan Technology Co., LTD**
Address.....:	988 Lingzhan Road, Lingkun Street, Oujiangkou Industrial Cluster Zone, Wenzhou, Zhejiang
Telephone.....:	/
Fax.....:	/
Factory.....:	**Wenzhou Lingzhan Technology Co., LTD**
Address.....:	988 Lingzhan Road, Lingkun Street, Oujiangkou Industrial Cluster Zone, Wenzhou, Zhejiang
Telephone.....:	/
Fax.....:	/

The applicant and manufacturer information, product name, model, trademark and other information in this report are all provided by the applicant, and this laboratory is not responsible for verifying its authenticity.

The test report merely corresponds to the test sample.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the test are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. the climatic conditions during the test were in the following Limits:

Ambient temperature	15℃ - 30℃
Relative Humidity air	30% - 75%
Atmospheric pressure	86 kPa - 106 kPa

Climate values will be recorded and recorded separately if specifically required in the base standard or application product/product series standard.

POSSIBLE TEST CASE VERDICTS

Test cases does not apply to test object	N/A
Test object does meet requirement	P(Pass) / PASS
Test object does not meet requirement	F(Fail) / FAIL
Not measured	N/M

DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

☒	Indicate that the conditions, standards or equipment listed is applicable to this report / test / EUT.
☐	Indicate that the conditions, standards or equipment listed is not applicable to this report / test / EUT.

REVISION HISTORY

Revision	Issue Date	Revision Content	Revised by
000	August 15, 2025	Initial Issue	-

Remark:
000) : “---”

TABLE OF CONTENTS

1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF THE ITEM(S)

Equipment Under Test	Electric Grill Brush
Test Model/Type	LZ-8057
Additional Models/Type	-
Description of Model difference	-
Rating	USB Input: DC 5V, 1A; Battery: DC 3.7V, 2500mAh, 25W
Classification of device	☐ Class A ☒ Class B

Information of the Equipment Under Test(EUT)
The EUT is general radio frequency devices. the product contains electronic control circuits. for more information refer to client's DoC letter.

1.2. OPERATING MODE(S) USED OF TESTS

During the tests, the following operating mode(s) has(have) been used.

Operating Mode	Operating Mode description	Used for testing
1	Working	☒
2	Bluetooth	☐
3	HDMI	☐
4	Charging	☒

1.3. SUPPORT / AUXILIARY EQUIPMENT FOR THE EUT

EUT has been tested using the following auxiliary equipment :

Auxeq	Model/Type	Manufacturer	Supplied by
Adapter	MDY-08-EH	Nanjing Cool electronic Technology Co., LTD	-

1.4. DESCRIPTION OF TEST FACILITY

Test Location	Ningbo LCS Standard Technology Service Co., Ltd. Room 101-106/202-206, Building 037, No. 166, Jinghua Road, Meixu Street, Ningbo High-tech Zone, Yinzhou District, Ningbo, Zhejiang, China CNAS Registration Number is L13445.
Date of receipt of test item	August 12, 2025
Date(s) of performance of test	August 12, 2025 - August 15, 2025

2. 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 LCS 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.

Measurement	Uncertainty (U_{lab})	Uncertainty (U_{cispr})
Conducted disturbance (9kHz - 150kHz)	± 2.63 dB	± 3.8 dB
Conducted disturbance (150kHz - 30MHz)	± 2.35 dB	± 3.4 dB
Radiated disturbance (30MHz - 200MHz)	± 3.48 dB	± 5.3 dB
Radiated disturbance (200MHz - 1GHz)	± 3.48 dB	± 5.3 dB

Supplementary information:

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

CONDUCTED DISTURBANCE						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	N/A	/	/
2	EMI Test Receiver	R&S	ESR 3	102519	2025-05-09	2026-05-08
3	Artificial Mains	R&S	ENV216	102318	2025-05-09	2026-05-08
4	shielded room	MAORUI	843	160218835	2024-04-11	2027-04-10

RADIATED DISTURBANCE (30MHz - 1GHz)						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	N/A	/	/
2	3m Semi Anechoic Chamber	MAORUI	9m*6m*6	160218849	2024-04-11	2027-04-10
3	By-log Antenna	SCHWARZBECK	VULB9168	9168-988	2025-04-13	2026-04-12
4	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-2049	2025-05-17	2026-05-16
5	EMI Test Receiver	R&S	ESRP	101372	2025-05-09	2026-05-08
6	AMPLIFIER	SCHWARZBECK	BBV9745	136	2025-05-09	2026-05-08
7	RF Cable	Hubber Suhner	CBL-RE	/	/	/
8	AMPLIFIER	SCHWARZBECK	BBV9718C	21	2025-05-09	2026-05-08

4. VERDICT SUMMARY SECTION

This chapter present an overview of the standards and results. Refer the next chapter for details of measured test results and applied test levels.

4.1. STANDARD(S)

CFR47 FCC Part 15 Subpart B - Radio frequency devices Subpart B - Unintentional radiators.

ANSI C63.4-2014 - American national standard for methods of measurement of radio noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz.

4.2. OVERVIEW OF RESULTS

EMISSION TESTS - CFR47 FCC Part 15 Subpart B		
Requirement - Test case	**Limit**	**Verdict**
Conducted Disturbance	Clause 15.107	PASS
Radiated Disturbance	Clause 15.109	PASS

Supplementary information : ---

5. EMISSION TESTS

5.1. CONDUCTED DISTURBANCE

Standard	CFR47 FCC Part 15 Subpart B
Referenced Standard(s)	ANSI C63.4-2014

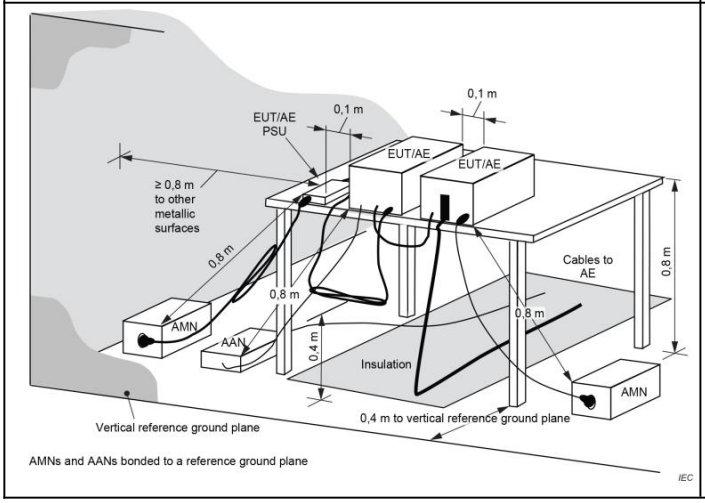
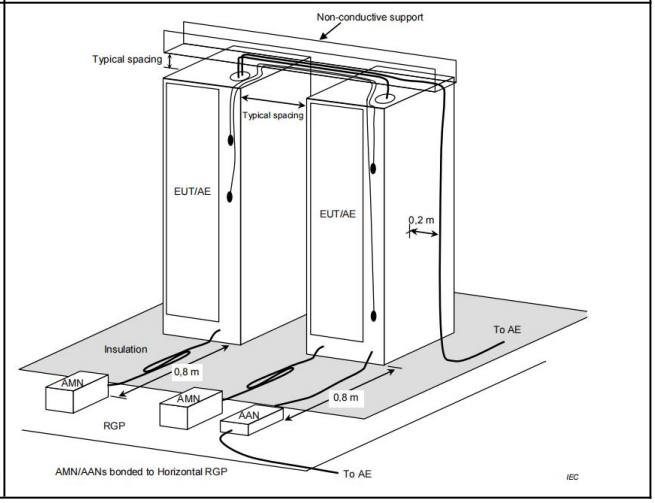
Disturbance voltage limits at AC power ports of Class B equipment

Frequency range [MHz]	Limit: Quasi-peak [dB(μV)]	Limit: Average[dB(μV)]	IF BW
0,15 - 0,5	66 - 56	56 - 46	9 kHz
0,5 - 5,0	56	46	
5,0 - 30	60	50	
1) At the transition frequency, the lower limit applies.			

Disturbance voltage limits at AC power ports of Class A equipment

Frequency range [MHz]	Limit: Quasi-peak [dB(μV)]	Limit: Average[dB(μV)]	IF BW
0,15 - 0,5	79	66	9 kHz
0,5 - 30	73	60	
1) At the transition frequency, the lower limit applies.			

Test configuration

Test Setup for table-top	Test Setup for Floor standing
	

Test Procedure Description

For Table-top, EUT shall be placed at (0,8 ± 0,05) m above the reference plane of the test site selected for measurement. for Floor standing, EUT shall be placed at (0,12 ± 0,04) m above the reference plane of the test site selected for measurement.and connected to the AC mains through artificial mains network (LISN). EUT is powered by V-type artificial power network,and the distance from LISN or is 0,8m. the part of the EUT power cord exceeding 0,8m folds in parallel to form a 0,3-0,4 m eights harness.

Test Results refer to Annex A.1

5.2. RADIATED DISTURBANCE

Standard	CFR47 FCC Part 15 Subpart B
Referenced Standard(s)	ANSI C63.4-2014
Test method	Semi Anechoic Chamber (SAC)

SAC Radiated disturbance limit for Class B equipment (3 m distance)

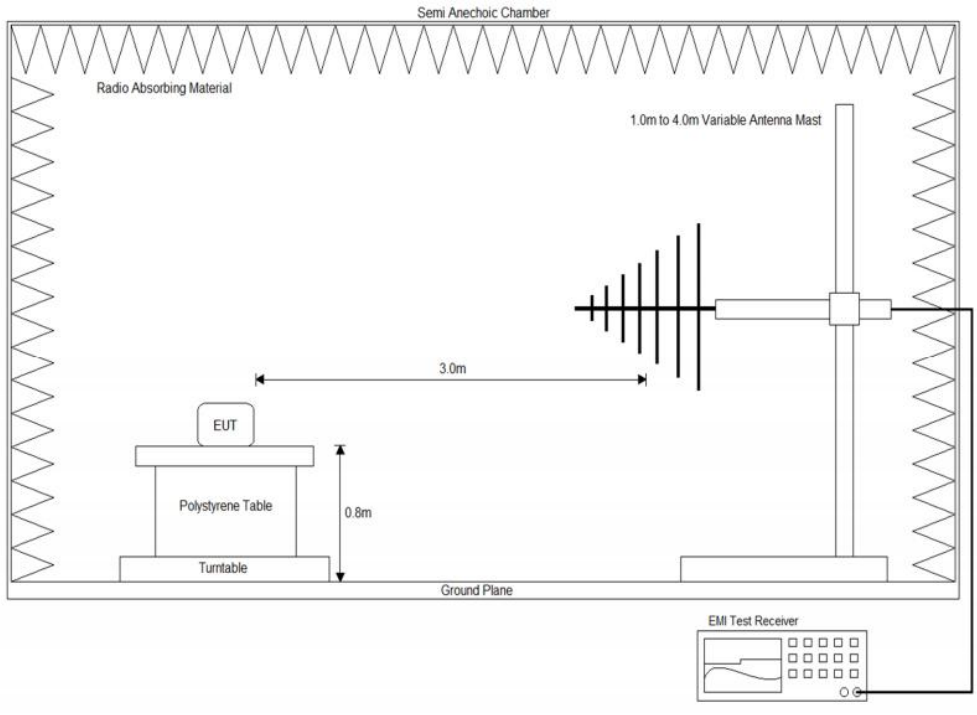
Frequency range [MHz]	Limit: Quasi-peak		IF BW
	[μV/m]	[dB(μV/m)]	
30 - 88	100	40	120 KHz
88 - 216	150	43.5	
216 - 960	200	46	
960 - 1000	500	54	

SAC Radiated disturbance limit for Class A equipment (10 m distance)

Frequency range [MHz]	Limit: Quasi-peak		IF BW
	[μV/m]	[dB(μV/m)]	
30 - 88	90	39	120 KHz
88 - 216	150	43.5	
216 - 960	210	46.5	
960 - 1000	300	49.5	

1) At the transition frequency, the lower limit applies.
2) Emission level (dB)μV = 20 log Emission level μV/m.

Test configuration



Test Procedure Description

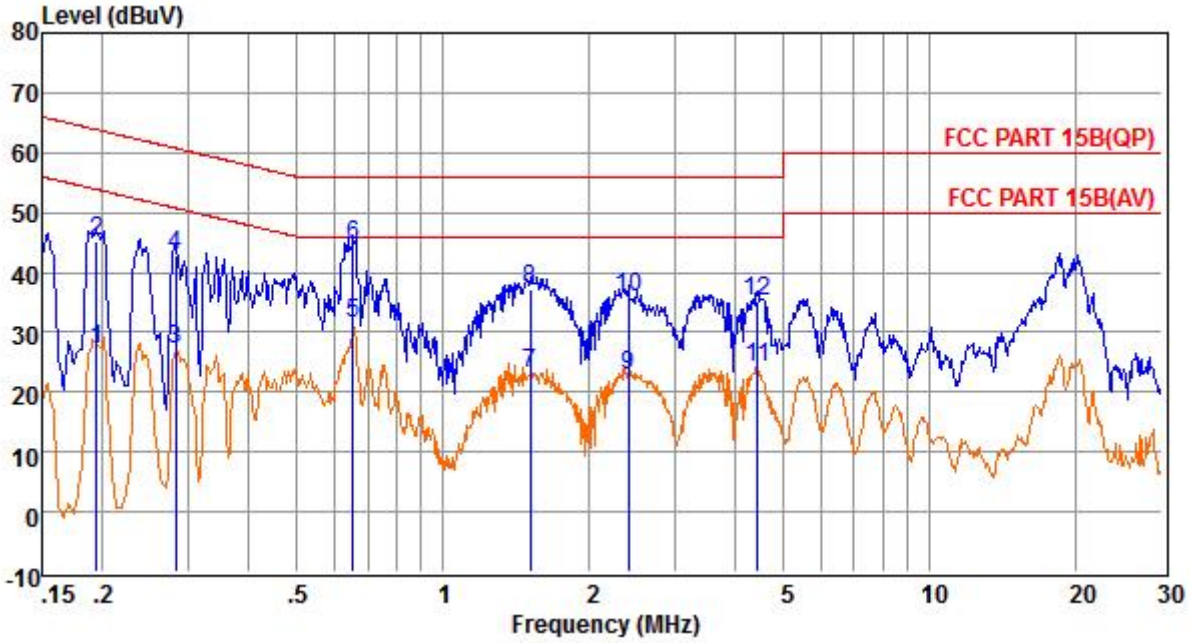
Radiated Emissions were measured 3 metres away from the EUT in the Semi Anechoic Chamber facility, which is an ANSI C63.4 compliant semi-anechoic chamber with ground plane. The EUT was placed on a non-conductive table, at a height of 0.8m above the ground plane. the turntable can rotate 360 degrees to determine the position of the maximum emission level. the EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. the antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Log-periodic antenna or horn antenna is used as a receiving antenna. both horizontal and vertical polarization of the antenna is set on test.

Test Results refer to Annex A.2

ANNEX A - TEST RESULTS

A.1. CONDUCTED DISTURBANCE TEST RESULTS

Environmental Conditions	24.3℃, 52% RH
Model	LZ-8057
Operating mode	Mode 4 (worst case)
Test voltage	DC 5V
Test engineer	Wen Li
Pol	Line

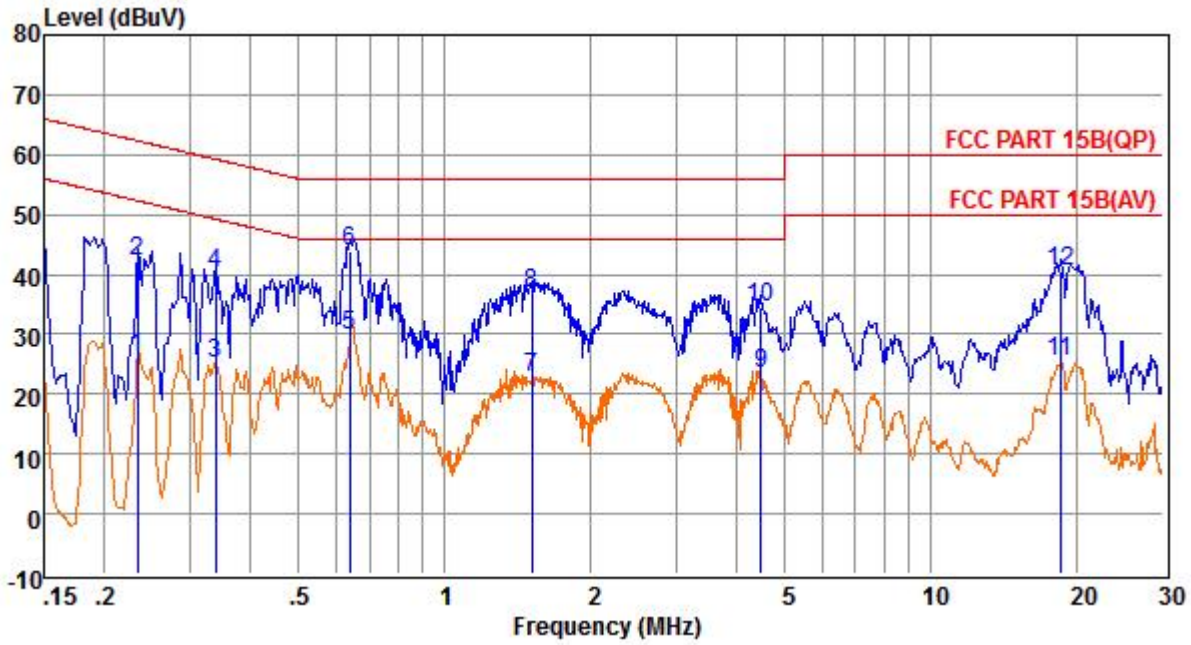


Pol: LINE

	Freq	Reading	LISNFac	CabLos	Aux2Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.19	17.39	9.67	0.02	0.00	27.08	53.84	-26.76	Average
2	0.19	35.39	9.67	0.02	0.00	45.08	63.84	-18.76	QP
3	0.28	17.19	9.76	0.03	0.00	26.98	50.76	-23.78	Average
4	0.28	33.19	9.76	0.03	0.00	42.98	60.76	-17.78	QP
5	0.65	21.49	9.84	0.04	0.00	31.37	46.00	-14.63	Average
6	0.65	34.49	9.84	0.04	0.00	44.37	56.00	-11.63	QP
7	1.51	13.18	9.84	0.05	0.00	23.07	46.00	-22.93	Average
8	1.51	27.18	9.84	0.05	0.00	37.07	56.00	-18.93	QP
9	2.41	12.95	9.80	0.05	0.00	22.80	46.00	-23.20	Average
10	2.41	25.95	9.80	0.05	0.00	35.80	56.00	-20.20	QP
11	4.43	14.20	9.75	0.06	0.00	24.01	46.00	-21.99	Average
12	4.43	25.20	9.75	0.06	0.00	35.01	56.00	-20.99	QP

Remarks: 1. Measured = Reading + LISNFac + Cable Loss + Aux2 Fac.
2. The emission levels that are 20dB below the official limit are not reported.

Environmental Conditions	24.3℃, 52% RH
Model	LZ-8057
Operating mode	Mode 4 (worst case)
Test voltage	DC 5V
Test engineer	Wen Li
Pol	Neutral



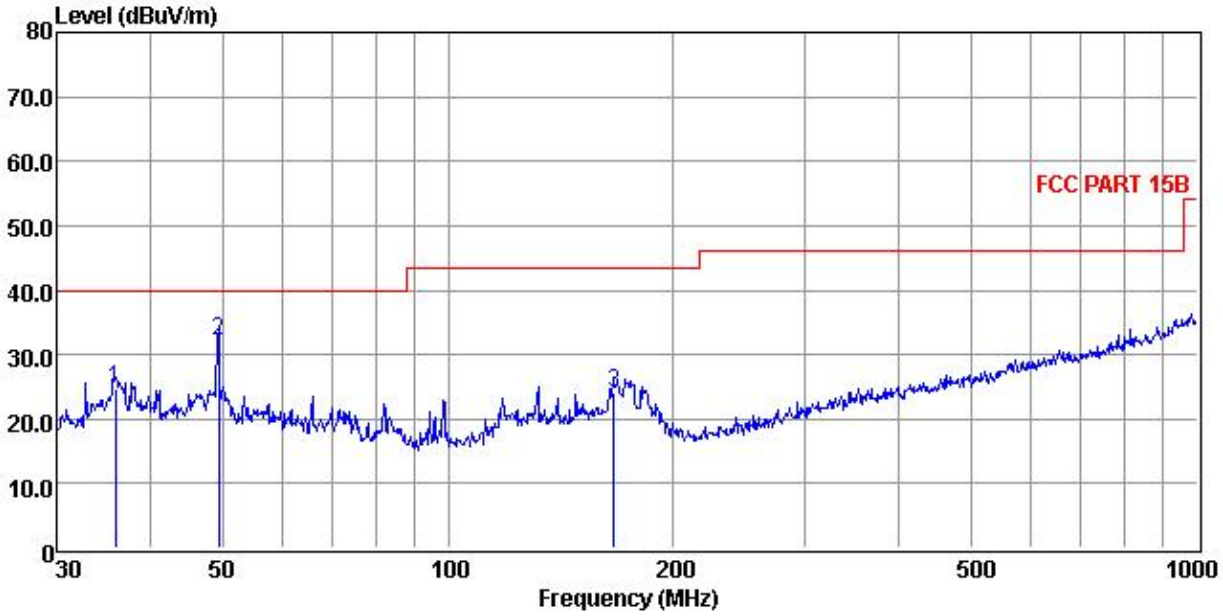
Pol: NEUTRAL

	Freq	Reading	LISNFac	CabLos	Aux2Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.23	16.48	9.71	0.03	0.00	26.22	52.30	-26.08	Average
2	0.23	32.48	9.71	0.03	0.00	42.22	62.30	-20.08	QP
3	0.34	15.44	9.72	0.03	0.00	25.19	49.27	-24.08	Average
4	0.34	30.44	9.72	0.03	0.00	40.19	59.27	-19.08	QP
5	0.64	19.98	9.87	0.04	0.00	29.89	46.00	-16.11	Average
6	0.64	33.98	9.87	0.04	0.00	43.89	56.00	-12.11	QP
7	1.51	12.86	9.78	0.05	0.00	22.69	46.00	-23.31	Average
8	1.51	26.86	9.78	0.05	0.00	36.69	56.00	-19.31	QP
9	4.48	13.63	9.76	0.06	0.00	23.45	46.00	-22.55	Average
10	4.48	24.63	9.76	0.06	0.00	34.45	56.00	-21.55	QP
11	18.43	15.68	9.58	0.11	0.00	25.37	50.00	-24.63	Average
12	18.43	30.68	9.58	0.11	0.00	40.37	60.00	-19.63	QP

Remarks: 1. Measured = Reading + LISNFac + Cable Loss + Aux2 Fac.
2. The emission levels that are 20dB below the official limit are not reported.

A.2. RADIATED DISTURBANCE TEST RESULTS

Environmental Conditions	25.9℃, 51% RH
Model	LZ-8057
Operating mode	Mode 4 (worst case)
Test voltage	DC 5V
Test engineer	Wen Li
Pol	Vertical

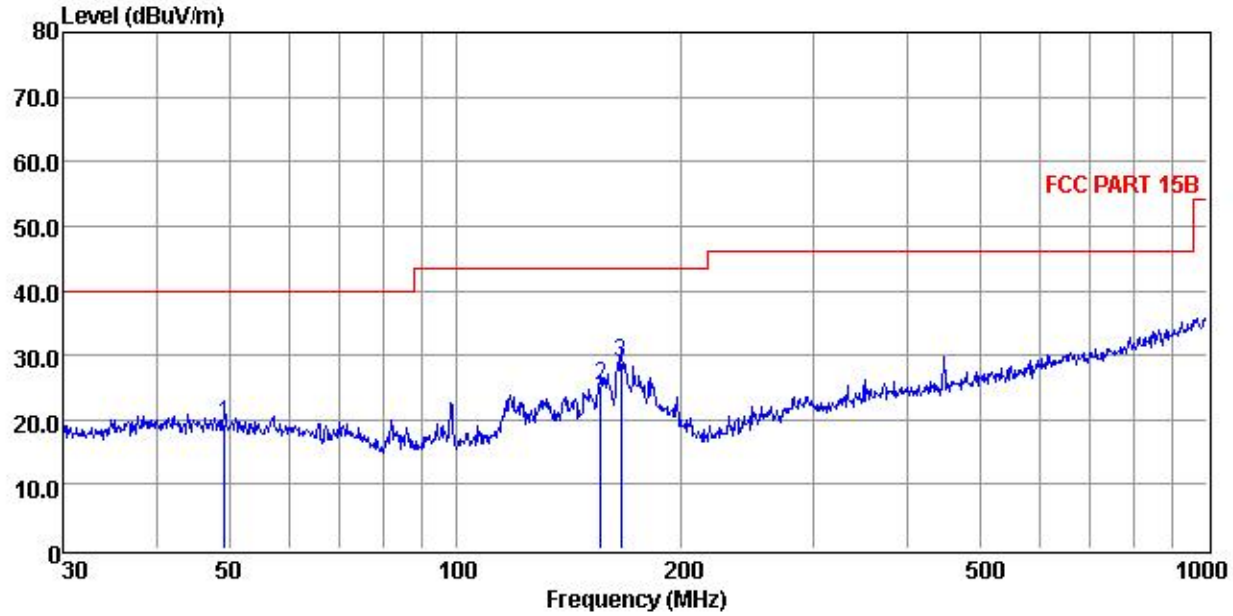


Site : 3m chamber
Condition : FCC PART 15B 3m VULB9168 NB 4 VERTICAL

	Freq	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dB	dBuV/m	dBuV/m	dB	
1	36.00	39.18	2.19	13.40	30.20	24.57	40.00	-15.43	QP
2	49.36	46.41	2.40	13.40	30.20	32.01	40.00	-7.99	QP
3	166.65	37.14	3.72	13.70	30.38	24.18	43.50	-19.32	QP

Note: 1. All Levels are Quasi-peak values.
2. Level= Read Level + Antenna Factor + Cable Loss - Preamp Factor
3. The emission that ate 20db blow the offficial limit are not reported

Environmental Conditions	25.9℃, 51% RH
Model	LZ-8057
Operating mode	Mode 4 (worst case)
Test voltage	DC 5V
Test engineer	Wen Li
Pol	Horizontal

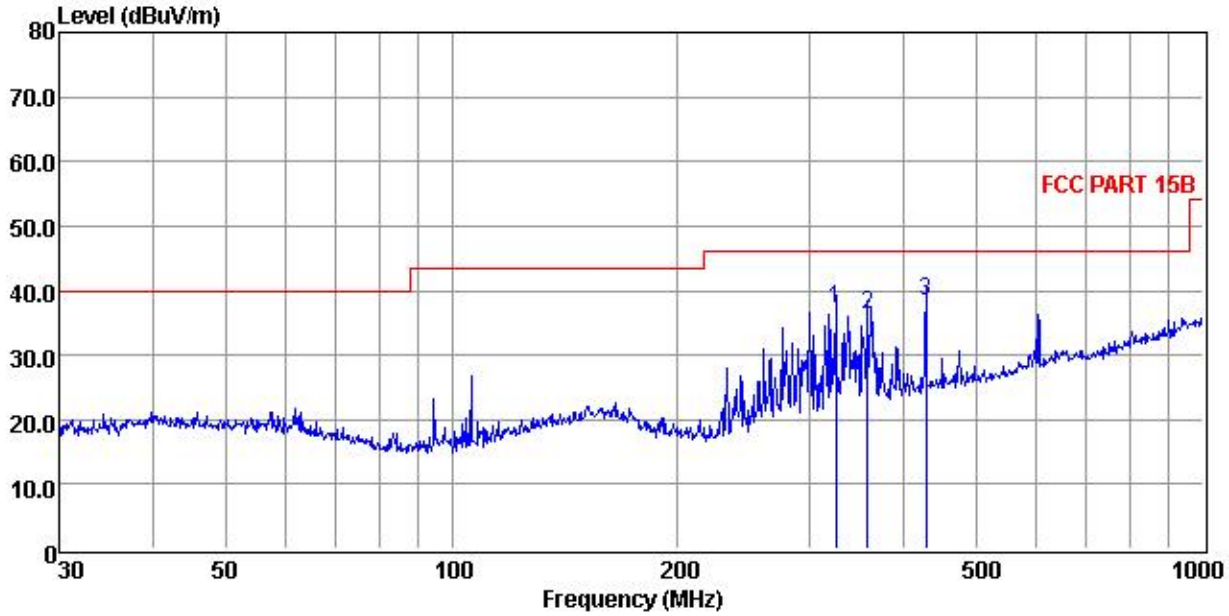


Site : 3m chamber
Condition : FCC PART 15B 3m VULB9168 NB 4 HORIZONTAL

	Freq	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dB	dBuV/m	dBuV/m	dB	
1	49.19	33.76	2.40	13.40	30.20	19.36	40.00	-20.64	QP
2	155.91	37.84	3.60	14.10	30.36	25.18	43.50	-18.32	QP
3	166.07	41.93	3.71	13.70	30.38	28.96	43.50	-14.54	QP

Note: 1. All Levels are Quasi-peak values.
2. Level= Read Level + Antenna Factor + Cable Loss - Preamp Factor
3. The emission that ate 20db blow the offficial limit are not reported

Environmental Conditions	25.9℃, 51% RH
Model	LZ-8057
Operating mode	Mode 1 (worst case)
Test voltage	DC 3.7V
Test engineer	Wen Li
Pol	Vertical

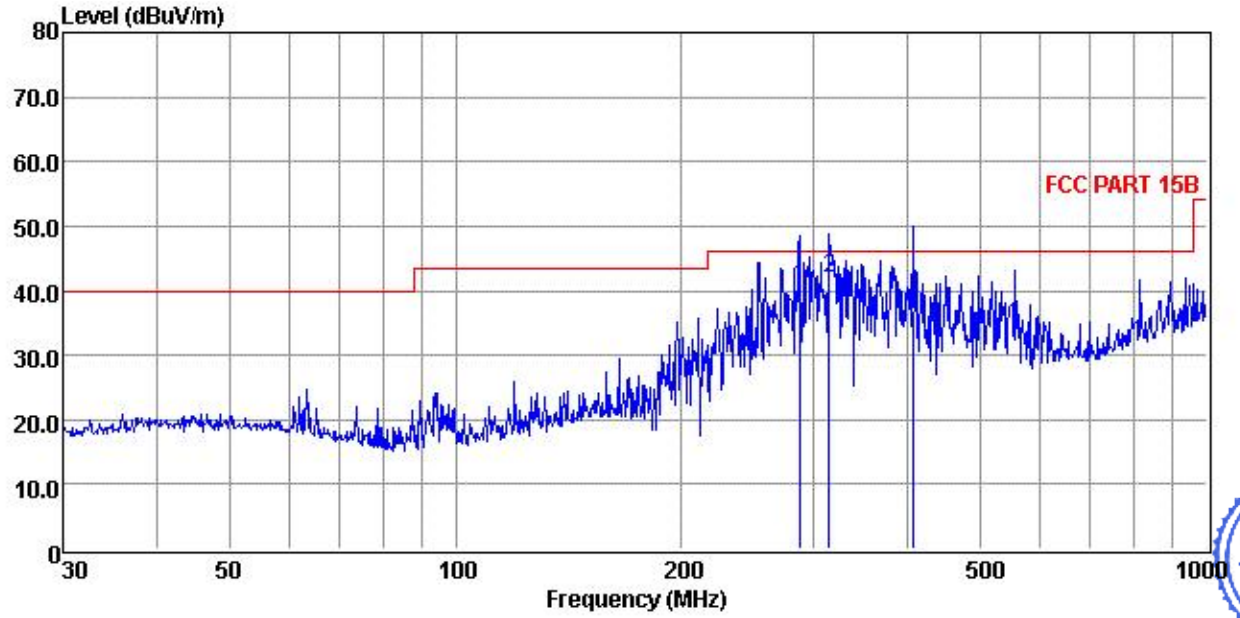


Site : 3m chamber
Condition : FCC PART 15B 3m VULB9168 NB 4 VERTICAL

	Freq	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dB	dBuV/m	dBuV/m	dB	
1	324.46	49.24	5.01	13.99	30.94	37.30	46.00	-8.70	QP
2	357.93	47.64	5.22	14.60	31.05	36.41	46.00	-9.59	QP
3	428.02	47.64	5.37	16.62	31.24	38.39	46.00	-7.61	QP

Note: 1. All Levels are Quasi-peak values.
2. Level= Read Level + Antenna Factor + Cable Loss - Preamp Factor
3. The emission that ate 20db blow the offficial limit are not reported

Environmental Conditions	25.9℃, 51% RH
Model	LZ-8057
Operating mode	Mode 1 (worst case)
Test voltage	DC 3.7V
Test engineer	Wen Li
Pol	Horizontal



Site : 3m chamber
Condition : FCC PART 15B 3m VULB9168 NB 4 HORIZONTAL

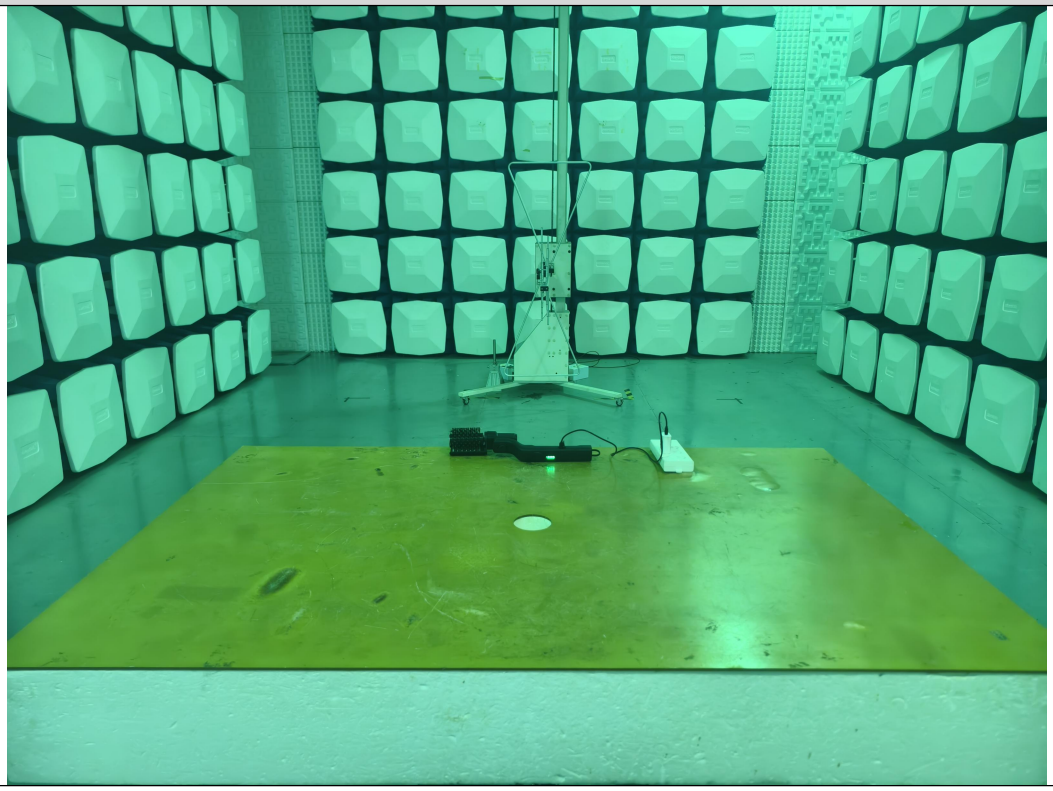
	Freq	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dB	dBuV/m	dBuV/m	dB	
1	286.98	53.84	4.70	12.72	30.80	40.46	46.00	-5.54	QP
2	314.38	53.99	4.93	13.78	30.90	41.80	46.00	-4.20	QP
3	407.51	46.91	5.33	15.85	31.19	36.90	46.00	-9.10	QP

Note: 1. All Levels are Quasi-peak values.
2. Level= Read Level + Antenna Factor + Cable Loss - Preamp Factor
3. The emission that ate 20db blow the offficial limit are not reported

ANNEX B - TEST PHOTOS

B.1. Conducted Disturbance

B.2. Radiated Disturbance



ANNEX C - EXTERNAL AND INTERNAL PHOTOS OF THE EUT

The photographs show the equipment under test.

Figure. 1（LZ-8057）

Figure. 2（LZ-8057）

Figure. 3（LZ-8057）

Figure. 4（LZ-8057）

Figure. 5（LZ-8057）

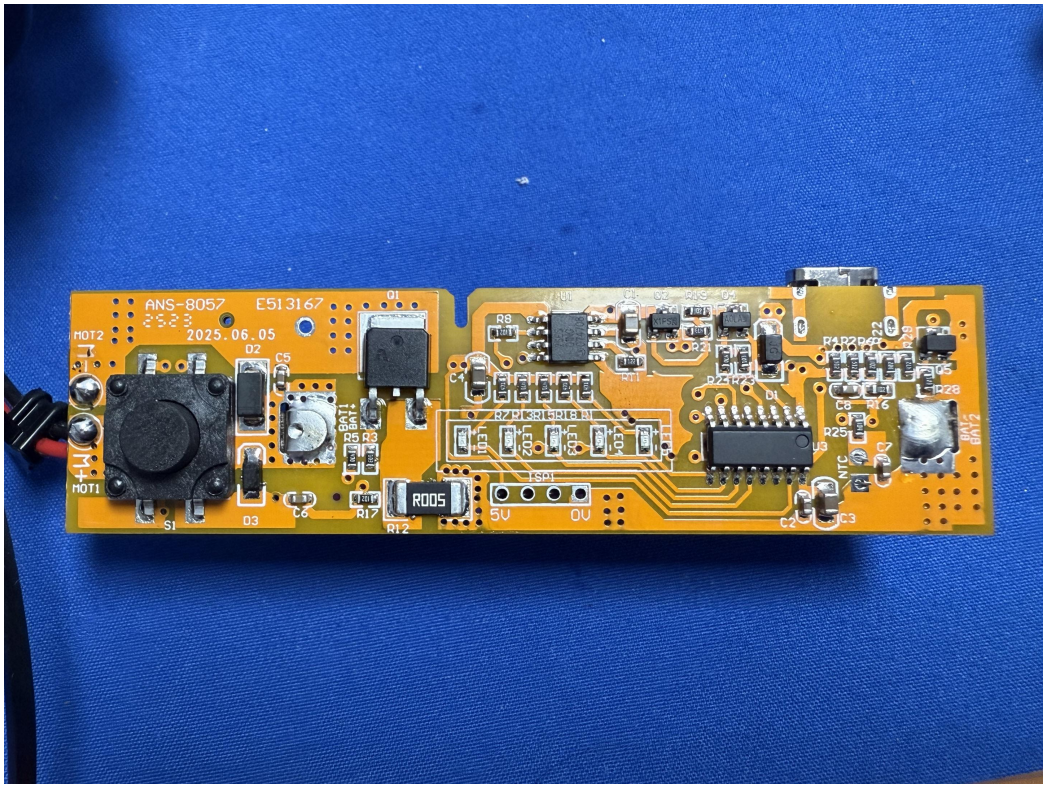


Figure. 6（LZ-8057）

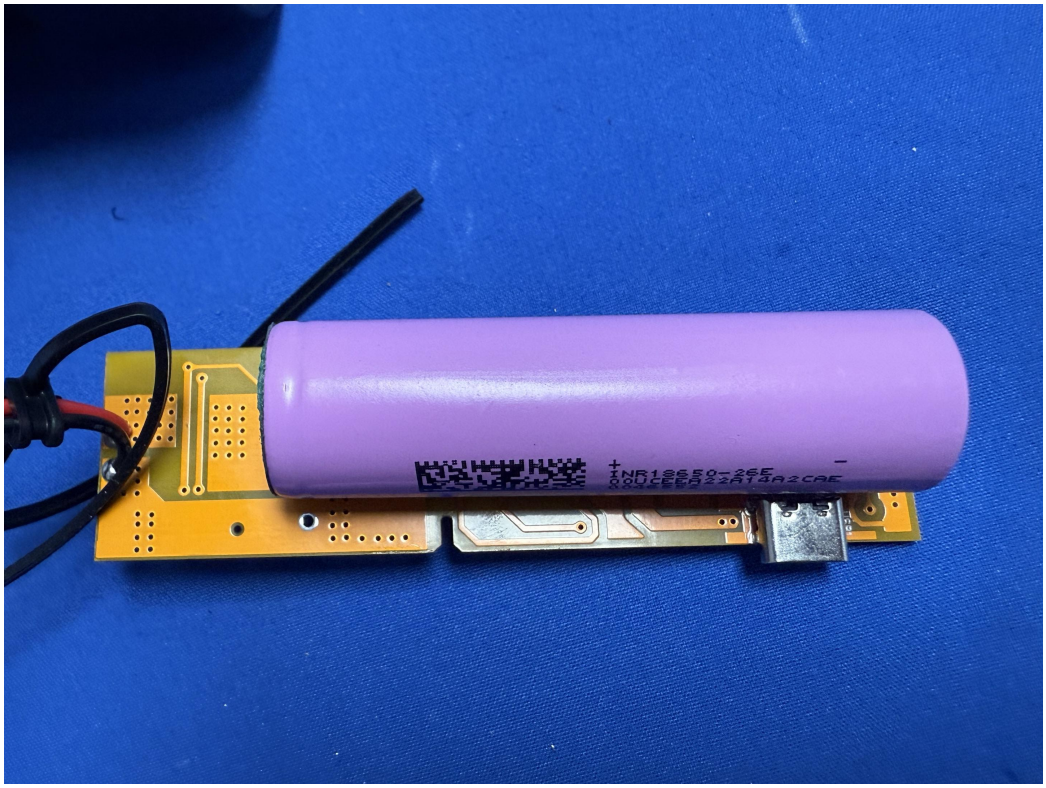


Figure. 7（LZ-8057）

Figure. 8（LZ-8057）

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VERIFICATION OF CONFORMITY

Applicant Name & Address	:	**Wenzhou Lingzhan Technology Co.,LTD** **988 Lingzhan Road, Lingkun Street, Oujiangkou Industrial Cluster Zone, Wenzhou, Zhejiang**
Product(s)	:	**Electric Grill Brush**
Model(s)	:	**LZ-8057**
Technical Specification	:	**LZ-8057: 3.7Vd.c.** **5V 1A (for USB port)**
Brand name	:	**./.**
Relevant Standard(s)	:	**EN IEC 55014-1: 2021** **EN IEC 55014-2: 2021** **EN IEC 61000-3-2: 2019+A1:2021+A2: 2024** **EN 61000-3-3: 2013+A1: 2019+A2: 2021**
Directive(s)	:	**EMC Directive 2014/30/EU**
Verification Number	:	**EFSH202508-E019**
Report Number(s)	:	**EFSH25070341-IE-02-E01**
Project Number	:	**EFSE25070341-IE-02**

NOTE 1: This verification is part of the full test report(s) and should be read in conjunction with it.

This is the result of tests carried out on those samples of the product referred to above which were submitted for testing, in accordance with the specification for the respective standards. The sample(s) of the tested product has been found to comply with the relevant standard/specification to the directive(s) listed on this verification at the time the tests were carried out.

The manufacturer according to definition by EU directive may indicate compliance to said directive(s) by signing a DoC himself and applying the CE-marking to products identical to the tested sample(s). In addition, the manufacturer shall file and keep the documentation according to the rules of the applicable directive(s) and shall consider changes of the standard(s) if relevant. Additional requirements may be applicable such as additional directives or local laws.

The 'CE' marking shall consist in the initials 'CE' taking the following form:

The 'CE' marking must be affixed to the product/s or to its marking plate. Where this is not possible or not warranted on account of the nature of the products, it must be affixed to the packaging, if any, and to the accompanying documents.

Kalsi Chen

Kalsi Chen
Supervisor
2025-08-04

Verification issued by: Eurofins Electrical Testing Service (Shanghai) Co., Ltd.
Building 18, No. 2168 Chenhang Highway, Minhang District, Shanghai, P.R. China Phone +86-21-36202800 Fax +86-21-61819180