

EMC TEST REPORT

For
HUIZHOU JINGLUN BIKE CO., LTD.

Electric bicycle

Model No. : C93,C91,C94,C99,EC14,EC16,EC20,EC23,EC26,EC27,EC29,
DT400,DT500,DT600,DT700,DT800,DT900,E24,EC28

Prepared for : HUIZHOU JINGLUN BIKE CO., LTD.
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Report No. : STL2025E1117370C-Y1

Date of Test : Nov .17-Dec .09,2025

Date of Rep. : Dec .09,2025

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TEST REPORT DECLARATION

Applicant : HUIZHOU JINGLUN BIKE CO., LTD.
Manufacturer : HUIZHOU JINGLUN BIKE CO., LTD.
EUT Description : Electric bicycle

(A) Model No. : C93
(B) Serial No. : C91,C94,C99,EC14,EC16,EC20,EC23,EC26,EC27,EC29,
DT400,DT500,DT600,DT700,DT800,DT900,E24,EC28
(C) Power Supply : DC 48V

Test Procedure Used:

EMI: EN IEC 55014-1:2021,

EMS: EN IEC 55014-2:2021 (EN 61000-4-2: 2009)

This device described above has been tested by STL, and the test results show that the equipment under test (EUT) is in compliance with the 2014/30/EU requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test: Nov .17-Dec .09,2025

Prepared by:



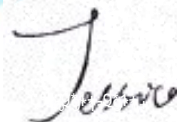
Project Engineer

Reviewed by:



Project Manager

Approved by:



Technical Director

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : Electric bicycle

Model No. : C93,C91,C94,C99,EC14,EC16,EC20,EC23,EC26,EC27,EC29,
DT400,DT500,DT600,DT700,DT800,DT900,E24,EC28

Applicant : HUIZHOU JINGLUN BIKE CO., LTD.
Address : Room 401, 4th Floor, Factory Building 8, North Side of Zhenxing
Avenue, Shiwan Town, Boluo County, Huizhou City, Guangdong
Province, China

Manufacturer : HUIZHOU JINGLUN BIKE CO., LTD.
Address : Room 401, 4th Floor, Factory Building 8, North Side of Zhenxing
Avenue, Shiwan Town, Boluo County, Huizhou City, Guangdong
Province, China

Date of Test : Nov .17-Dec .09,2025

1.2. Test Summary

Test Items	Standards	Status
Power line conducted emission test	EN IEC 55014-1:2021	N/A
power Disturbance test	EN IEC 55014-1:2021	Complied
Harmonic Current Emission test	EN IEC 61000-3-2:2019+A1:2021+A2:2024	N/A
Voltage fluctuations & flicker test	EN 61000-3-3:2013+A1:2019+A2:2021	N/A
Electrostatic discharge Test	EN 61000-4-2: 2009	Complied
RF Field strength susceptibility Test	EN IEC 61000-4-3:2020	N/A
Electrical fast transient/Burst Test	EN 61000-4-4: 2012	N/A
Surge Test	EN 61000-4-5:2014+A1:2017	N/A
Injected currents susceptibility test	EN 61000-4-6:2023	N/A
Voltage dips and interruptions test	EN 61000-4-11:2020	N/A

1.3. Test Facility

Test Firm : Shenzhen STL Testing Technology Co., Ltd.
Address : 103, Building 5, Rich sea Industrial Zone, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province, China
Tel : (86) 755-82593673
Fax : (86) 755-82593673

1.4. Test Uncertainty

Conducted Emission Uncertainty = $\pm 2.66\text{dB}$

Radiated Emission Uncertainty = $\pm 4.26\text{dB}$

2. TEST INSTRUMENT USED

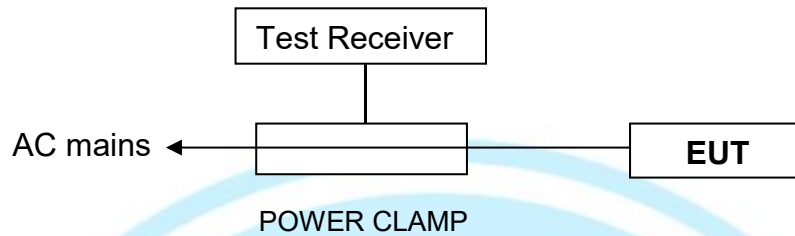
No.	Equipment	Manufacturer	Model No.	S/N	Cal. Date	Next Cal. Date
1	ESD TESTER	HAEFELY	PESD1610	H401552	2025.11.16	2026.11.15
2	MAGNETIC FIELD TESTER	HAEFELY	MAG100	150577	2025.11.16	2026.11.15
3	5kVA AC POWER SOURCE	CALIFORNIA INSTRUMENTS	5001ix-400	55692	2025.11.16	2026.11.15
4	HARMONICS/FLICKER TEST ANALYZER	CALIFORNIA INSTRUMENTS	PACS-1	72254	2025.11.16	2026.11.15
5	50Ω COAXIAL SWITCH	ANRITSU	MP59B	6200283933	2025.11.16	2026.11.15
6	CONICAL HOUSING	ATC	N/A	N/A	N/A	N/A
7	VOLTAGE PROBE	SCHWARZBECK	TK9416	N/A	2025.11.16	2026.11.15
8	RF CURRENT PROBE	ROHDE& SCHWARZ	EZ-17	100048	2025.11.16	2026.11.15
9	BILOG ANTENNA	SCHWARZBECK	VULB9163	194	2025.11.16	2026.11.15
10	SPECTRUM ANALYZER	ANRITSU	MS2651B	N/A	2025.11.16	2026.11.15
11	PRE-AMPLIFIER	AGILENT	8447D	294A10619	2025.11.16	2026.11.15
12	RF COAXIAL CABLE(844 CHAMBER)	SCHWARZBECK	N-5m	NO.1	2025.11.16	2026.11.15
13	THERMO-HYGROMETER	OREGON SCIENTIFIC	JB913R	GZ-WS004	2025.11.16	2026.11.15
14	1# SHIELDING ROOM	CHANGZHOU ZHONGYU	843	N/A	N/A	N/A
15	2# SHIELDING ROOM	CHANGZHOU ZHONGYU	843	N/A	N/A	N/A
16	3m Semi-ANECHOIC CHAMBER	CHANGZHOU ZHONGYU	844	N/A	N/A	N/A
17	ANTENNA/TURNTABLE CONTROLLER	INNCO	CO2000	CO2000/077/7301203/L	N/A	N/A
18	101 LCR METER	YANGZHI	YD2810B	20101170	2025.11.16	2026.11.15
19	RF COAXIAL CABLE(844 CHAMBER)	NTGS8017	N-1m	NO.6	2025.11.16	2026.11.15
20	RF COAXIAL CABLE(844 CHAMBER)	NTGS8017	N-1m	NO.7	2025.11.16	2026.11.15
21	AUDIO GENERATOR	GW	GAG-809	EG835424	N/A	N/A
22	THERMO-HYGROMETER	OREGON SCIENTIFIC	JB913R	GZ-WS002	2025.11.16	2026.11.15



No.	Equipment	Manufacturer	Model No.	S/N	Cal. Date	Next Cal. Date
23	EMC PRO SYSTEM (IMMUNITY TESTER)	THERMO	PRO-BASE	0403271	2025.11.16	2026.11.15
24	CAPACITIVE CLAMP (EFT)	THERMO	PRO-CCL	0403272	2025.11.16	2026.11.15
25	COUPLER DECOUPLER FOR TELECOM LINES	THERMO	CM-TEL-CD	0403273	2025.11.16	2026.11.15
26	L.I.S.N.	ROHDE & SCHWARZ	ESH3-Z5	100305	2025.11.16	2026.11.15
27	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESPI-3	100396/003	2025.11.16	2026.11.15
28	SIGNAL GENERATOR	ROHDE & SCHWARZ	SML01	101161	2025.11.16	2026.11.15
29	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESPI-3	101526/003	2025.11.16	2026.11.15
30	SPECTRUM ANALYZER	AGILENT	E7405A	MY45115511	2025.11.16	2026.11.15
31	L.I.S.N.	SCHWARZBECK	NSLK8126	8126431	2025.11.16	2026.11.15
32	PULSE LIMITER (FOR ESPI3)	ROHDE & SCHWARZ	ESH3-Z2	100815	2025.11.16	2026.11.15
33	PRE-AMPLIFIER	ROHDE & SCHWARZ	CBLU118354 0-01	3791	2025.11.16	2026.11.15
34	50Ω COAXIAL SWITCH	ANRITSU	MP59B	6200506474	2025.11.16	2026.11.15
35	BILOG ANTENNA	SCHWARZBECK	VULB9163	9163-323	2025.11.16	2026.11.15
36	HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D-655	2025.11.16	2026.11.15
37	HORN ANTENNA	SCHWARZBECK	BBHA9170	9170-359	N/A	N/A
38	LOOP ANTENNA	SCHWARZBECK	FMZB1516	1516131	2025.11.16	2026.11.15
39	ULTRA COMPACT SIMULATOR	EM TEST	UCS 500 N5	V0928104968	2025.11.16	2026.11.15
40	CAPACITIVE CLAMP	EM TEST	HFK	0509-34	2025.11.16	2026.11.15
41	Transformer	EM TEST	V4780S2	0109-44	N/A	N/A
42	Conducted Immunity Test System	FRANKONIA	CIT-10	126B1121	2025.11.16	2026.11.15
43	CDN	FRANKONIA	CDN-M2/3	A3027020	2025.11.16	2026.11.15
44	EM Injection Clamp	FCC	F-2031-23mm	091824	2025.11.16	2026.11.15
45	LISN	AFJ	LS16C	16010946249	2025.11.16	2026.11.15
46	CLICK METER	AFJ	CL55C	55040947164	2025.11.16	2026.11.15

3. POWER DISTURBANCE TEST

3.1. Block Diagram of Test Setup



(EUT: Electric bicycle)

3.2. Power Disturbance Test Standard

EN IEC 55014-1:2021

3.3. Power Disturbance Test Limit

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

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

3.4. EUT Configuration on Test

The EN55014-1 regulations test method must be used to find the maximum emission during power disturbance test. .

3.4.1. Electric bicycle (EUT)

- (A) Model No. : C93
- (B) Serial No. : N/A
- (C) Manufacturer : HUIZHOU JINGLUN BIKE CO., LTD.

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT as shown in section 3.1.
- 3.5.2. Turn on the power of all equipments.
- 3.5.3. Let the EUT work in test mode and measure it.



3.6. Test Procedure

The EUT is placed on the plane 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 EUT to measure the disturbing energy emitted from the cord.

The bandwidth of the field strength meter (Test Receiver ESCI) is set at 120 KHz.

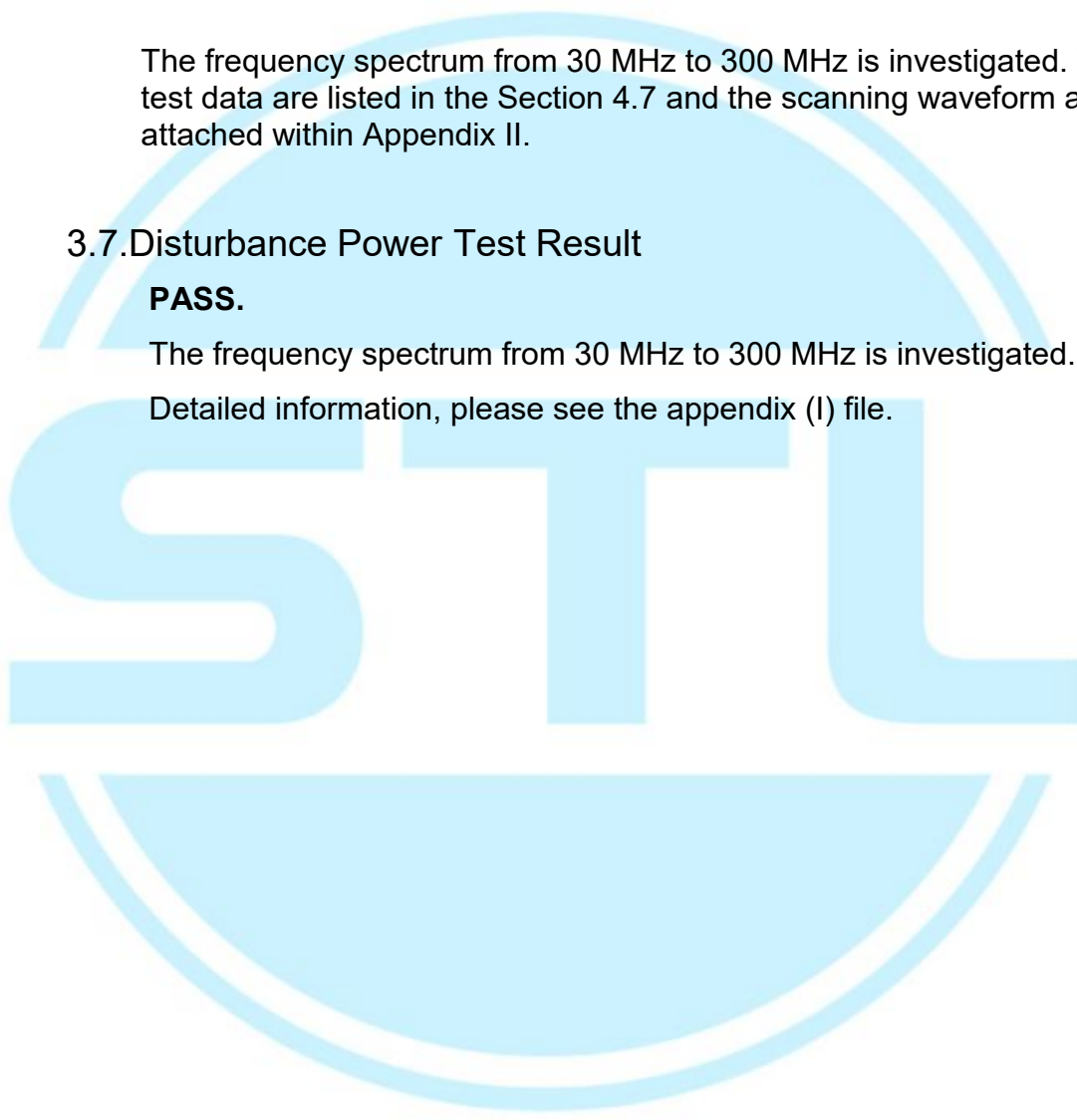
The frequency spectrum from 30 MHz to 300 MHz is investigated. The test data are listed in the Section 4.7 and the scanning waveform are attached within Appendix II.

3.7. Disturbance Power Test Result

PASS.

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

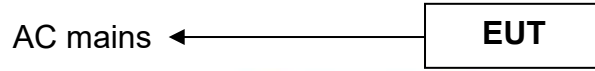
Detailed information, please see the appendix (I) file.



4. ELECTROSTATIC DISCHARGE TEST

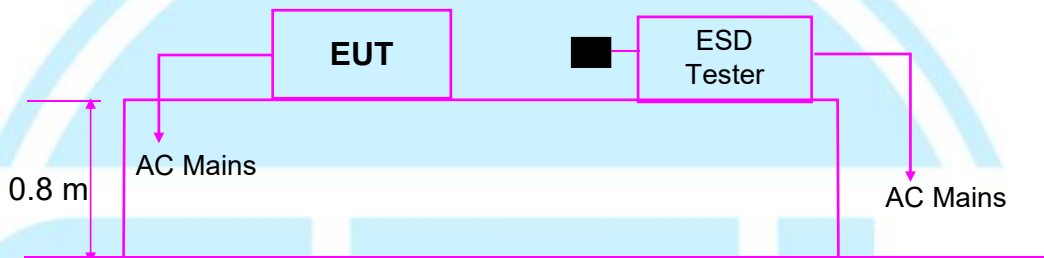
4.1. Block Diagram of Test Setup

4.1.1. Block Diagram of the EUT



(EUT: Electric bicycle)

4.1.2. ESD Test Setup



Remark: ■ is Discharge Electrode

4.2. Test Standard

EN 55014-2:2021 (EN 61000-4-2: 2009)

4.3. Severity Levels and Performance Criterion

Severity Level:

Air Discharge: Level 3, **8KV**; Contact Discharge: Level 2, **4KV**

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

Performance criterion: **B**

4.4.EUT Configuration

The configuration of EUT is listed in section 3.4.1.

4.5.Operating Condition of EUT

4.5.1.Setup the EUT as shown in section 4.1.

4.5.2.Turn on the power of all equipments.

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

4.6.Test Procedure

4.6.1.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

4.6.2.Contact Discharge:

All the procedure shall be same as section 7.6.1 except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

4.6.3.Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode position is vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

4.6.4.Indirect discharge for vertical coupling plane

At least 20 single discharges 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.

4.7.Test Results

PASS.

Please refer to the following pages.

Electrostatic Discharge Test Results

EUT: Electric bicycle M/N: C93 Power Supply: DC 48V		Temperature: 25°C Humidity: 55% Test Mode: ON	
Air Discharge: ±8KV Contact: ±4KV # For each point positive 10 times and negative 10 times discharge			
	Kind		
Location	A-Air Discharge C-Contact Discharge	Result	
Slot	A	PASS	
Button	A	PASS	
HCP	C	PASS	
VCP	C	PASS	
Remark: Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).		Test Equipment: See Clause 2.	

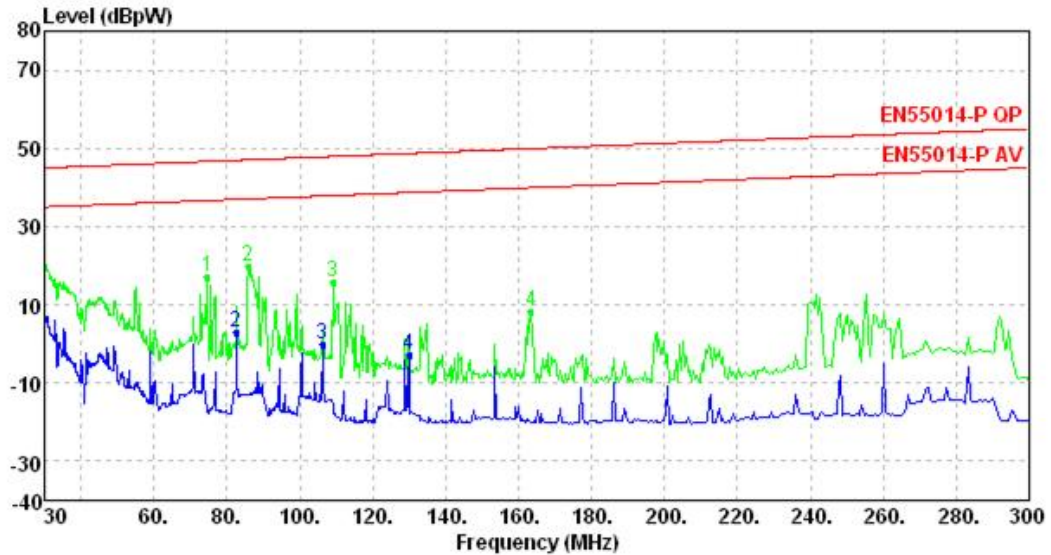




APPENDIX I
Disturbance Power
Test Data

Disturbance Power

Engineer : Wil	
EUT : Electric bicycle	Time : 2025/12/09
Limit : EN55014-1	Comment : 25°C/55%
M/N: C93	



Site :
 Condition:
 : RBW:120.000KHz VBW:300.000KHz

	Freq	Level	Limit	Over	Remark
	MHz	dBpW	Line	Limit	
			dBpW	dB	
1	30.35	6.38	35.02	-28.64	Average
2 Max	82.63	2.94	36.96	-34.02	Average
3	106.20	-0.35	37.83	-38.18	Average
4	130.05	-3.02	38.72	-41.74	Average

Site :
 Condition:
 : RBW:120.000KHz VBW:300.000KHz

	Freq	Level	Limit	Over	Remark
	MHz	dBpW	Line	Limit	
			dBpW	dB	
1	74.67	17.34	46.66	-29.32	Peak
2 Max	85.93	19.98	47.08	-27.10	Peak
3	109.17	15.74	47.94	-32.20	Peak
4	163.35	8.09	49.95	-41.86	Peak





APPENDIX II

Photographs of the EUT



FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4



FIGURE 5



FIGURE 6



FIGURE 7



FIGURE 8



FIGURE 9



FIGURE 10



***** End of this report *****