



FCC Part 15 Subpart B TEST REPORT

Client Name : Shenzhen KuKirin Technology Co., Ltd.

Address : Room 4F4913, Shenzhou Computer Building, Marie Curie Avenue,
Vanke City Community, Bantian Street, Longgang District,
Shenzhen City

Product Name : Electric scooter

Test Model No. : G4MAX

Report No. : CCTI-2023112219E

Issued Date : Dec. 14, 2023

Prepared By : Shenzhen CCTI Technology Co., Ltd.

Address : 7th Floor, Block A, Building E, Yongwei Industrial Park, No. 118,
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Guangdong, China

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Scan code for report

TEST REPORT VERIFICATION

Applicant : Shenzhen KuKirin Technology Co., Ltd.

Address : Room 4F4913, Shenzhou Computer Building, Marie Curie Avenue, Vanke City Community, Bantian Street, Longgang District, Shenzhen City

Manufacturer : Jinhua Feimi Intelligent Technology Co., Ltd.

Address : 14 Mudan South Road, Baiyang Street, Wuyi County, Jinhua City, Zhejiang Province

Product Name : Electric scooter

Model No. : G4MAX

Series No. : N/A

Trade Mark : N/A

Rating(s) : Input: DC 67.2V, 5A, Class III
(Supplied by AC/DC Adapter: Input: 100-240V~, 50/60Hz, 5A
Output: DC 67.2V, 5A, 336W)
Lithium Battery: DC 60V, 32Ah, 1920Wh

Test Date : Nov. 20, 2023 to Dec. 14, 2023

**Test Standard(s) : FCC Part 15 Subpart B
ANSI C63.4:2014**

Test Result : PASS

This device described above has been tested by CCTI, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. The results shown in this test report refer only to the sample(s) tested unless other wise stated and the sample(s) are retained for 30 days only.

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Producer By : Betty Liang
(Betty Liang / Engineer)

Date : Dec. 14, 2023

Authorized Signer : Corey Mao
(Corey Mao / Manager)

Date : Dec. 14, 2023



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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Electric scooter

Trademark : N/A

Model Number : G4MAX

Serial Model : N/A

Model Difference : N/A

Power Supply : Input: DC 67.2V, 5A, Class III
(Supplied by AC/DC Adapter: Input: 100-240V~, 50/60Hz, 5A
Output: DC 67.2V, 5A, 336W)
Lithium Battery: DC 60V, 32Ah, 1920Wh

Remark:

- (1) G4MAX was selected as the test model and the datas have been recorded in this report.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.2. Test Facility

Shenzhen CCTI Technology Co., Ltd.

7th Floor, Block A, Building E, Yongwei Industrial Park, No. 118, Yongfu Road, Qiaotou, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

1.3. Tested System Details

None.

1.4. Test Uncertainty

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

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

2. TEST INSTRUMENT USED

2.1. For Conducted Emission at the mains terminals Test

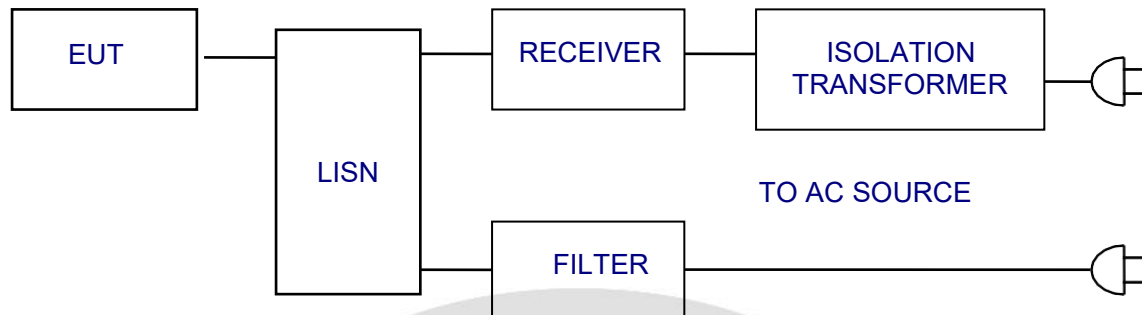
Conducted Emission Test (A --- site)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
843 Shielded Room	ChengYu	843 Room	843	Mar. 09, 2023	Mar. 08, 2024
EMI Receiver	R&S	ESCI	101421	Mar. 09, 2023	Mar. 08, 2024
LISN	Schwarzbeck	NSLK8127	8127739	Mar. 09, 2023	Mar. 08, 2024
Attenuator	R&S	ESH3-Z2	CCTI021E	Mar. 09, 2023	Mar. 08, 2024
843 Cable 1#	FUJIKURA	843C1#	001	Mar. 09, 2023	Mar. 08, 2024

2.2. For Radiated Emission Test

Radiation Emission Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Mar. 09, 2023	Mar. 08, 2024
Spectrum Analyzer	Agilent	E4407B	MY45109572	Mar. 09, 2023	Mar. 08, 2024
Amplifier	Schwarzbeck	BBV9743	9743-119	Mar. 09, 2023	Mar. 08, 2024
Amplifier	Schwarzbeck	BBV9718	9718-270	Mar. 09, 2023	Mar. 08, 2024
Log-periodic Antenna	Schwarzbeck	VULB9160	VULB9160-3369	Mar. 09, 2023	Mar. 08, 2024
EMI Receiver	R&S	ESCI	101421	Mar. 09, 2023	Mar. 08, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1275	Mar. 09, 2023	Mar. 08, 2024
966 Cable 1#	CHENGYU	966	004	Mar. 09, 2023	Mar. 08, 2024
966 Cable 2#	CHENGYU	966	003	Mar. 09, 2023	Mar. 08, 2024

3. CONDUCTED EMISSION AT THE MAINS TERMINALS TEST

3.1. Block Diagram Of Test Setup



3.2. Test Standard

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3.3. Power Line Conducted Emission Limit

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.4. EUT Configuration on Test

The following equipment are installed on conducted emission test to meet FCC PART 15 B requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.5. Operating Condition of EUT

- (1) Setup the EUT and simulators as shown in Section 3.1.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test modes and test it.

3.6. Test Procedure

The EUT is put on the ground and connected to the AC mains through a Artificial Mains Network (AMN). This provided a 50ohm coupling impedance for the tested equipment. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **FCC PART 15 B** regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESCI) is set at 10KHz.

The frequency range from 150 KHz to 30 MHz is investigated.

3.7. Test Result

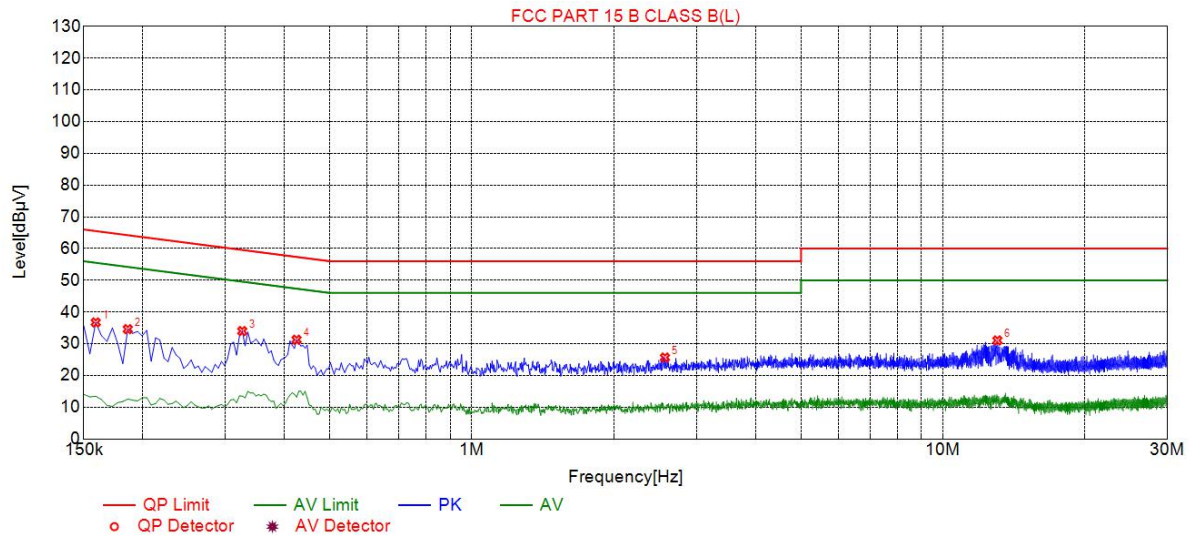
PASS

Please refer to the following page.



Conducted Emission At The Mains Terminals Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Line
Test Voltage :	DC 67.2V From Power Adapter Input AC 110V/60Hz	Test Mode:	Charging

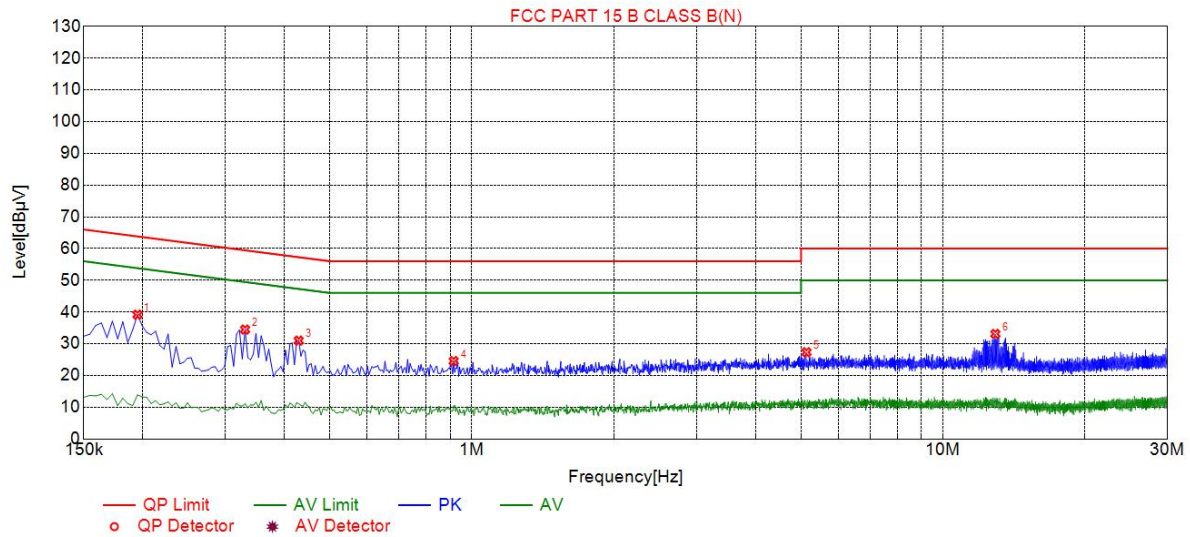


Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1590	36.71	20.01	65.52	28.81	16.70	PK	L
2	0.1860	34.60	20.05	64.21	29.61	14.55	PK	L
3	0.3255	34.00	20.05	59.57	25.57	13.95	PK	L
4	0.4245	31.27	20.04	57.36	26.09	11.23	PK	L
5	2.5710	25.66	20.20	56.00	30.34	5.46	PK	L
6	13.0560	31.05	19.96	60.00	28.95	11.09	PK	L

Conducted Emission At The Mains Terminals Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Neutral
Test Voltage :	DC 67.2V From Power Adapter Input AC 110V/60Hz	Test Mode:	Charging

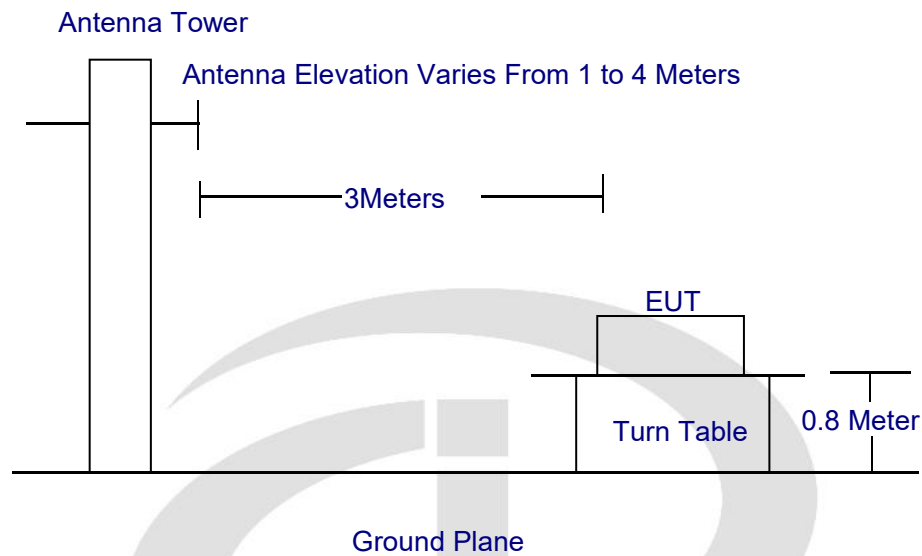


Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1950	39.17	20.03	63.82	24.65	19.14	PK	N
2	0.3300	34.48	20.04	59.45	24.97	14.44	PK	N
3	0.4290	30.99	20.05	57.27	26.28	10.94	PK	N
4	0.9150	24.55	20.06	56.00	31.45	4.49	PK	N
5	5.1360	27.33	20.26	60.00	32.67	7.07	PK	N
6	12.9300	33.10	19.97	60.00	26.90	13.13	PK	N

4. RADIATION EMISSION TEST

4.1. Block Diagram of Test Setup



4.2. Test Standard

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4.3. Radiation Limit

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0

4.4. EUT Configuration on Test

The FCC PART 15 B regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test.

Please refer to Section 2.2.

4.5. Operating Condition of EUT

Same as conducted emission test, which is listed in Section 2.2 except the test set up replaced as Section 4.1.

4.6. Test Procedure

The EUT and its simulators are placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find the maximum emission levels, the interface cable must be manipulated according to FCC PART 15 B on radiated emission test.

The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 1GHz, set at 1MHz above 1GHz

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

The highest frequency of the internal sources of the EUT was 1.3GHz, so the measurement was only made up to 6GHz.

4.7. Test Result

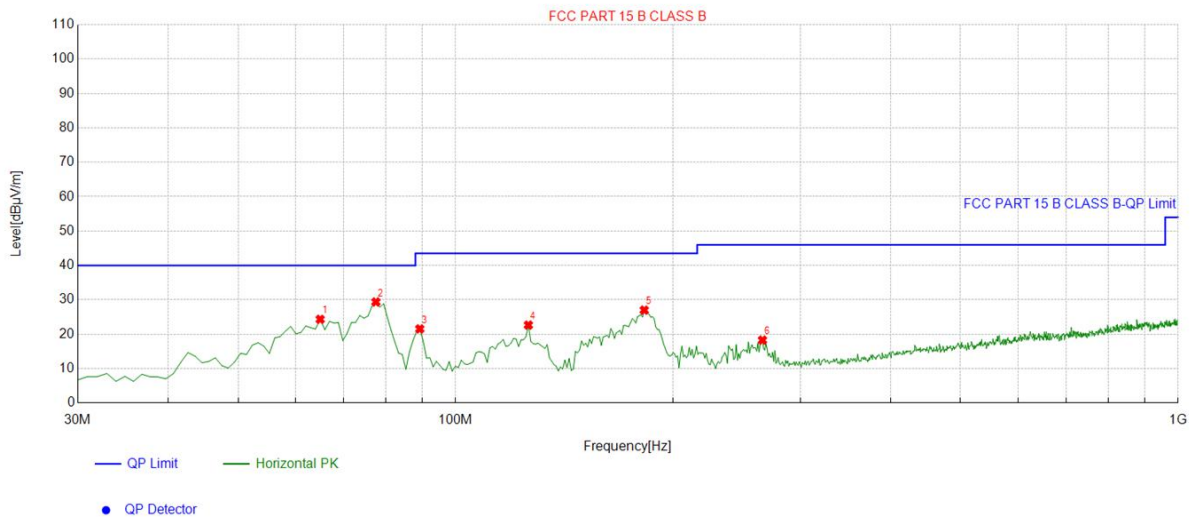
PASS

Please refer to the following page.

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Radiation Emission Test Data

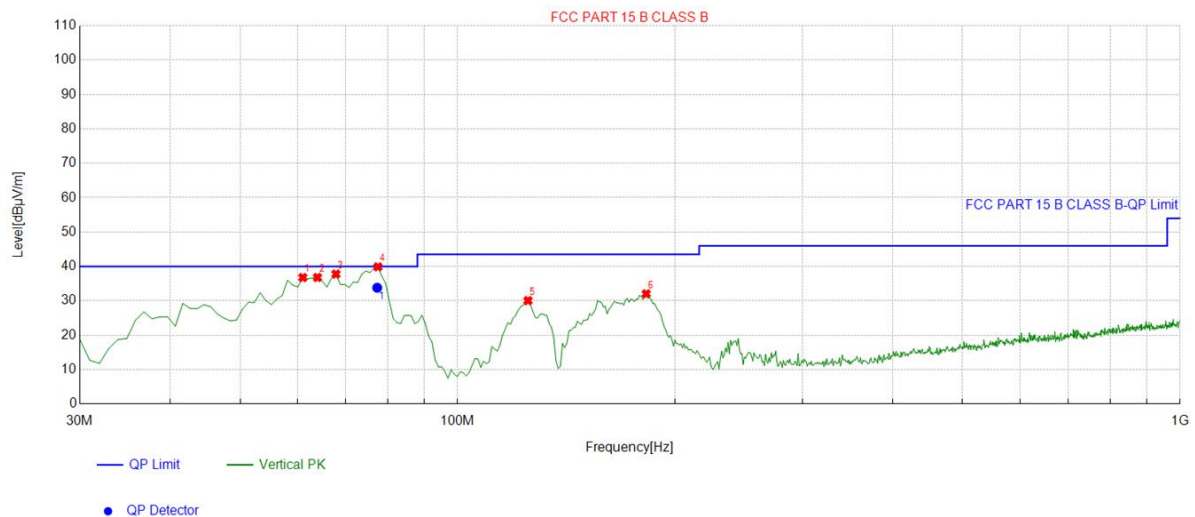
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Horizontal
Test Voltage :	DC 67.2V From Power Adapter Input AC 110V/60Hz	Test Mode:	Charging



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	64.954955	-14.58	38.91	24.33	40.00	15.67	100	207	Horizontal
2	77.577578	-17.16	46.54	29.38	40.00	10.62	100	168	Horizontal
3	89.229229	-17.44	38.98	21.54	43.50	21.96	100	351	Horizontal
4	126.12612	-16.21	38.87	22.66	43.50	20.84	100	231	Horizontal
5	182.44244	-16.79	43.79	27.00	43.50	16.50	100	74	Horizontal
6	265.94594	-12.71	30.98	18.27	46.00	27.73	100	119	Horizontal

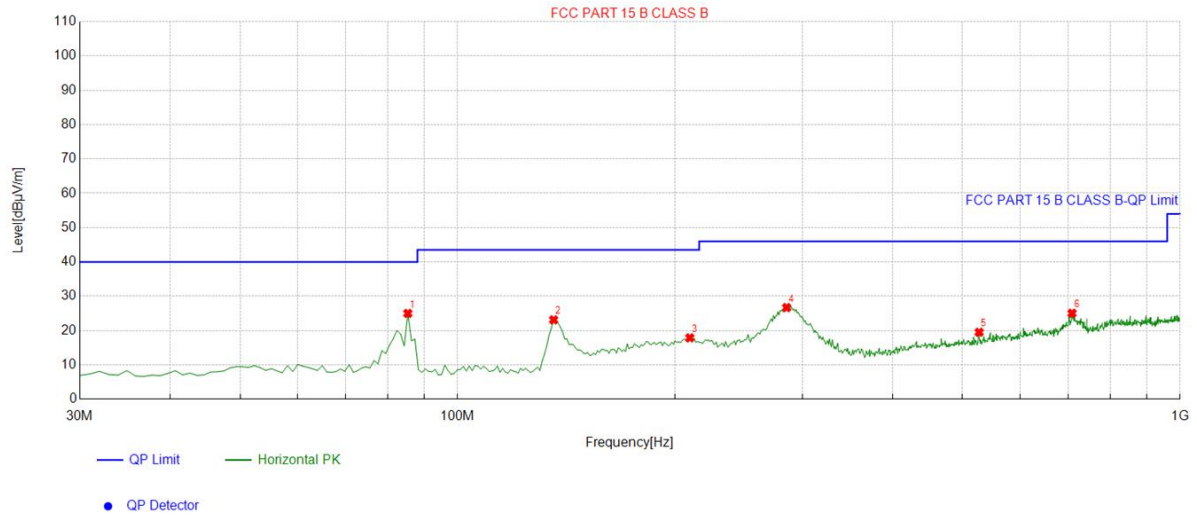
Radiation Emission Test Data			
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Vertical
Test Voltage :	DC 67.2V From Power Adapter Input AC 110V/60Hz	Test Mode:	Charging



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	61.071071	-14.27	51.03	36.76	40.00	3.24	100	68	Vertical
2	63.983984	-14.68	51.47	36.79	40.00	3.21	100	57	Vertical
3	67.867868	-15.38	53.15	37.77	40.00	2.23	100	305	Vertical
4	77.577578	-17.16	57.04	39.88	40.00	0.12	100	2	Vertical
5	125.15515	-16.11	46.17	30.06	43.50	13.44	100	1	Vertical
6	182.44244	-16.79	48.83	32.04	43.50	11.46	100	209	Vertical

Radiation Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Horizontal
Test Voltage :	DC 60V From Battery	Test Mode:	Working

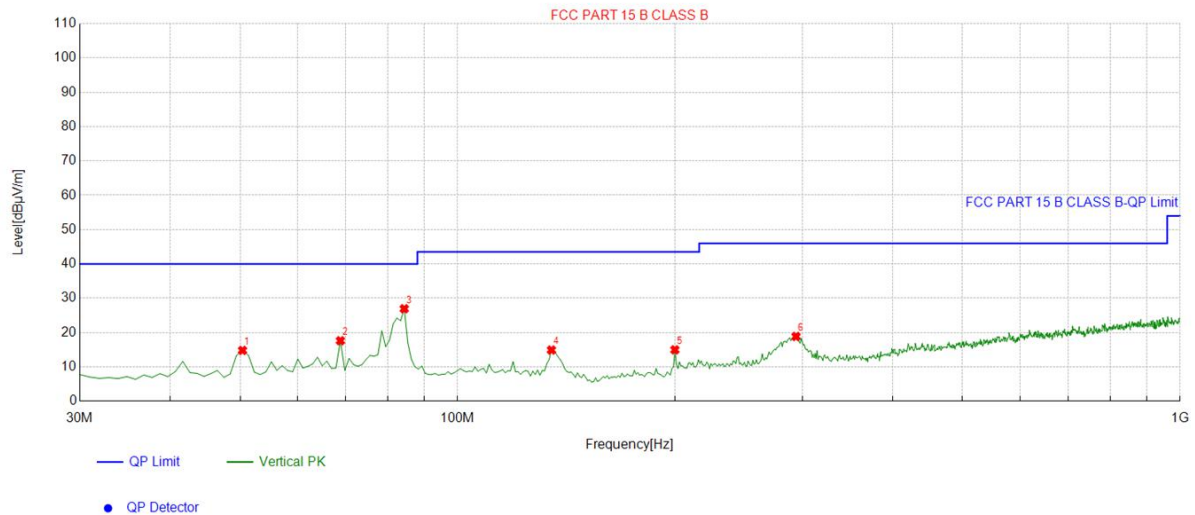


Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	85.345345	-17.95	42.95	25.00	40.00	15.00	100	360	Horizontal
2	135.83583	-17.62	40.74	23.12	43.50	20.38	100	359	Horizontal
3	209.62963	-14.60	32.48	17.88	43.50	25.62	100	191	Horizontal
4	285.36536	-12.57	39.26	26.69	46.00	19.31	100	198	Horizontal
5	527.13713	-7.02	26.52	19.50	46.00	26.50	100	219	Horizontal
6	708.70870	-3.54	28.57	25.03	46.00	20.97	100	146	Horizontal

Radiation Emission Test Data

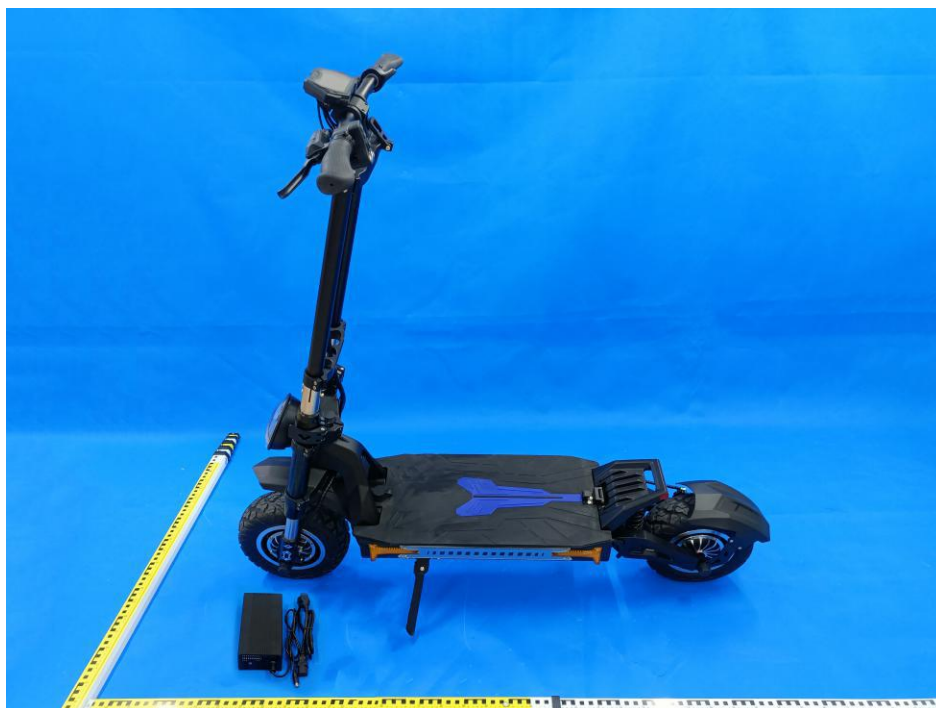
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Vertical
Test Voltage :	DC 60V From Battery	Test Mode:	Working



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.39039	-14.55	29.36	14.81	40.00	25.19	100	327	Vertical
2	68.838839	-15.56	33.19	17.63	40.00	22.37	100	245	Vertical
3	84.374374	-17.86	44.79	26.93	40.00	13.07	100	249	Vertical
4	134.86486	-17.58	32.49	14.91	43.50	28.59	100	242	Vertical
5	199.91992	-15.27	30.25	14.98	43.50	28.52	100	120	Vertical
6	294.10410	-12.16	31.02	18.86	46.00	27.14	100	120	Vertical

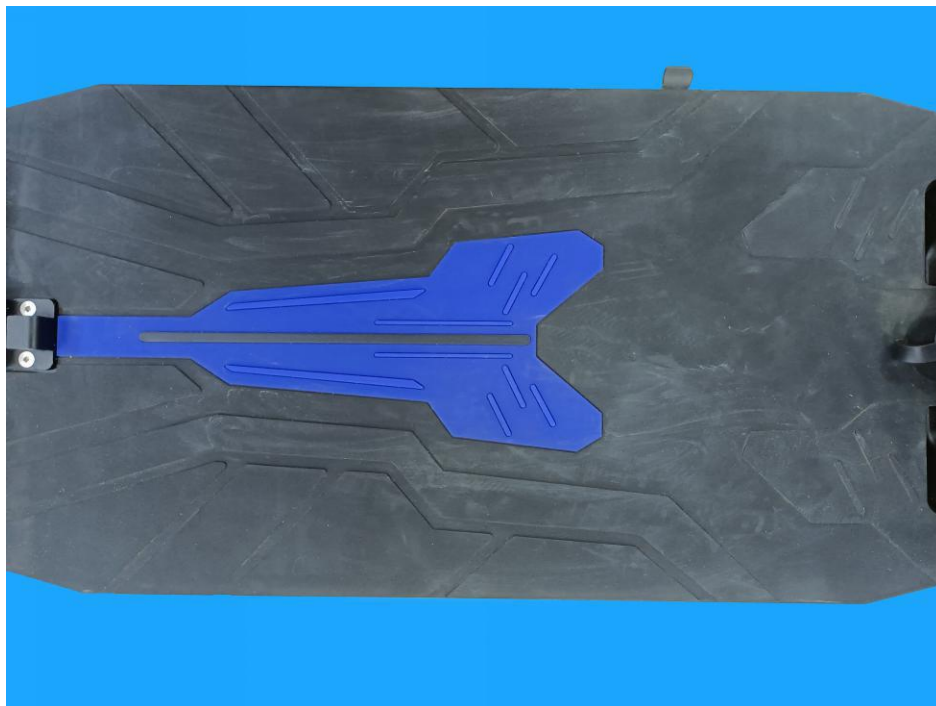
APPENDIX I -- EUT PHOTOGRAPHS



EUT Photo 1



EUT Photo 2



EUT Photo 3



EUT Photo 4



EUT Photo 5



EUT Photo 6



EUT Photo 7



EUT Photo 8



EUT Photo 9



EUT Photo 10



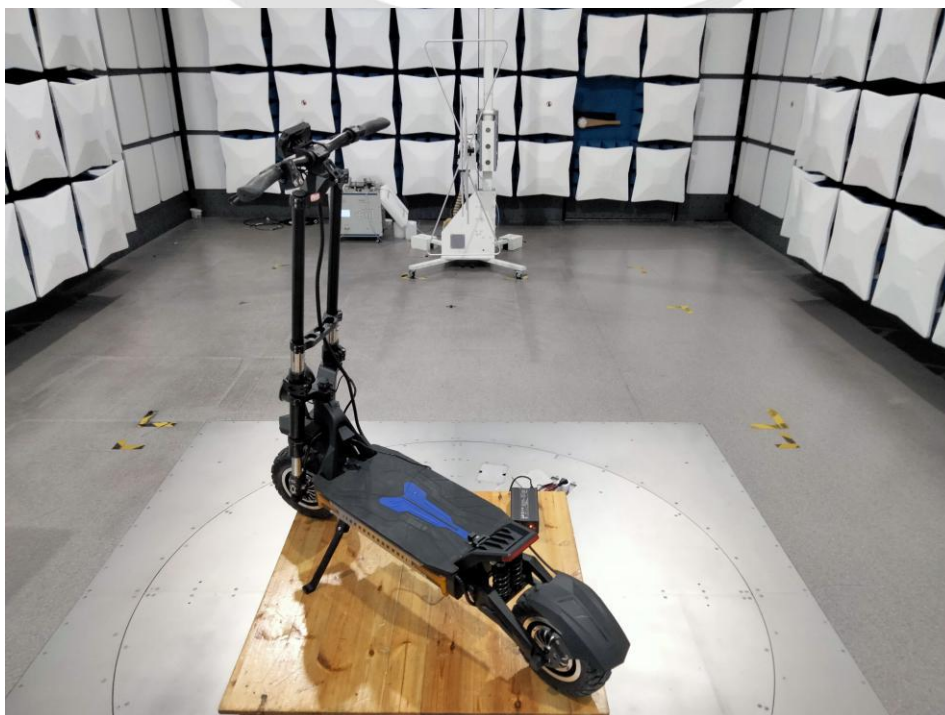
EUT Photo 11

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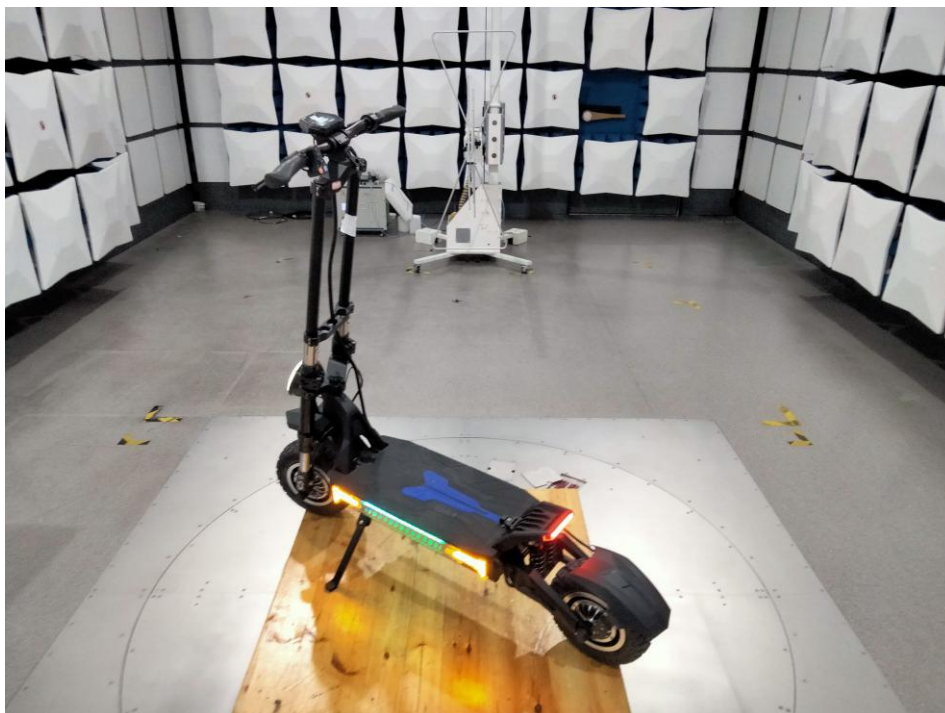
APPENDIX II -- EUT TEST PHOTOGRAPHS



EUT Photo CE



EUT Photo RE (Charging)



EUT Photo RE (Working)

***** END OF REPORT *****

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