



FCC Part 15 Subpart B TEST REPORT

Client Name : Jinhua Feimi Intelligent Technology Co.,Ltd

Address : No.14 Peony South Road, Baiyang Avenue, Wuyi County, Zhejiang Province

Product Name : Electric Scooter

Test Model No. : G2MAX

Report No. : CCTI-2022052605E

Issued Date : Jun. 30, 2022

Prepared By : Shenzhen CCTI Technology Co., Ltd.

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

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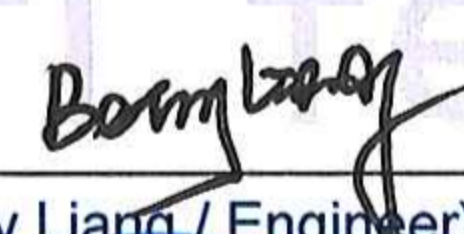
TEST REPORT VERIFICATION

Applicant : Jinhua Feimi Intelligent Technology Co.,Ltd
Address : No.14 Peony South Road, Baiyang Avenue, Wuyi County, Zhejiang Province
Manufacturer : Shenzhen HengZhiHe Technology Co., Ltd
Address : Room 4006, Hasee Computer building, Bantian street, Longgang District, Shenzhen
Product Name : Electric Scooter
Model No. : G2MAX
Series No. : N/A
Trade Mark : N/A
Rating(s) : Input: 48VDC, 2A, Class III
Lithium Battery: 48V, 20AH, 960Wh
Test Date : May. 25, 2022 to Jun. 30, 2022
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 / Engineer)

Date : Jun. 30, 2022

Authorized Signer :


(Corey Mao / Manager)

Date : Jun. 30, 2022



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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Electric Scooter

Trademark : N/A

Model Number : G2MAX

Serial Model : N/A

Model Difference : N/A

Power Supply : Input: 48VDC, 2A, Class III
(Supplied by AC/DC Adapter: Input: 100-240V~, 50/60Hz, 3.0A
Output: 54.6VDC, 2.0A)
Lithium Battery: 48V, 20AH, 960Wh

Remark:

(1) G2MAX 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

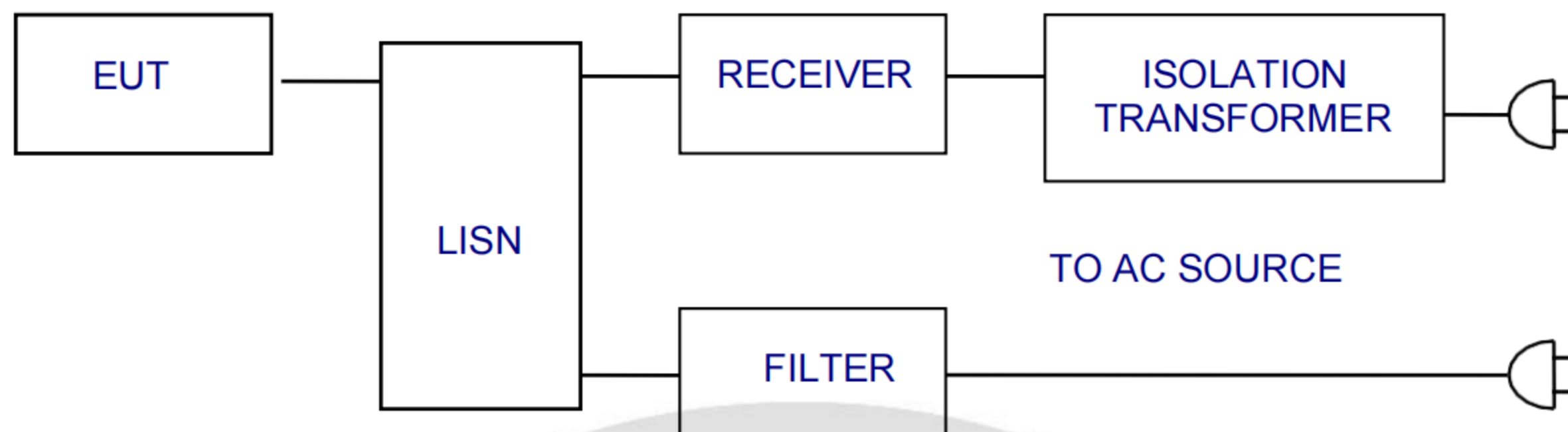
Conducted Emission Test (A --- site)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
843 Shielded Room	ChengYu	843 Room	843	Mar. 09, 2022	Mar. 08, 2023
EMI Receiver	R&S	ESCI	101421	Mar. 09, 2022	Mar. 08, 2023
LISN	Schwarzbeck	NSLK8127	8127739	Mar. 09, 2022	Mar. 08, 2023
Attenuator	R&S	ESH3-Z2	CCTI021E	Mar. 09, 2022	Mar. 08, 2023
843 Cable 1#	FUJIKURA	843C1#	001	Mar. 09, 2022	Mar. 08, 2023

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, 2022	Mar. 08, 2023
Spectrum Analyzer	Agilent	E4407B	MY45109572	Mar. 09, 2022	Mar. 08, 2023
Amplifier	Schwarzbeck	BBV9743	9743-119	Mar. 09, 2022	Mar. 08, 2023
Amplifier	Schwarzbeck	BBV9718	9718-270	Mar. 09, 2022	Mar. 08, 2023
Log-periodic Antenna	Schwarzbeck	VULB9160	VULB9160-3369	Mar. 09, 2022	Mar. 08, 2023
EMI Receiver	R&S	ESCI	101421	Mar. 09, 2022	Mar. 08, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1275	Mar. 09, 2022	Mar. 08, 2023
966 Cable 1#	CHENGYU	966	004	Mar. 09, 2022	Mar. 08, 2023
966 Cable 2#	CHENGYU	966	003	Mar. 09, 2022	Mar. 08, 2023

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(μV)	
	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

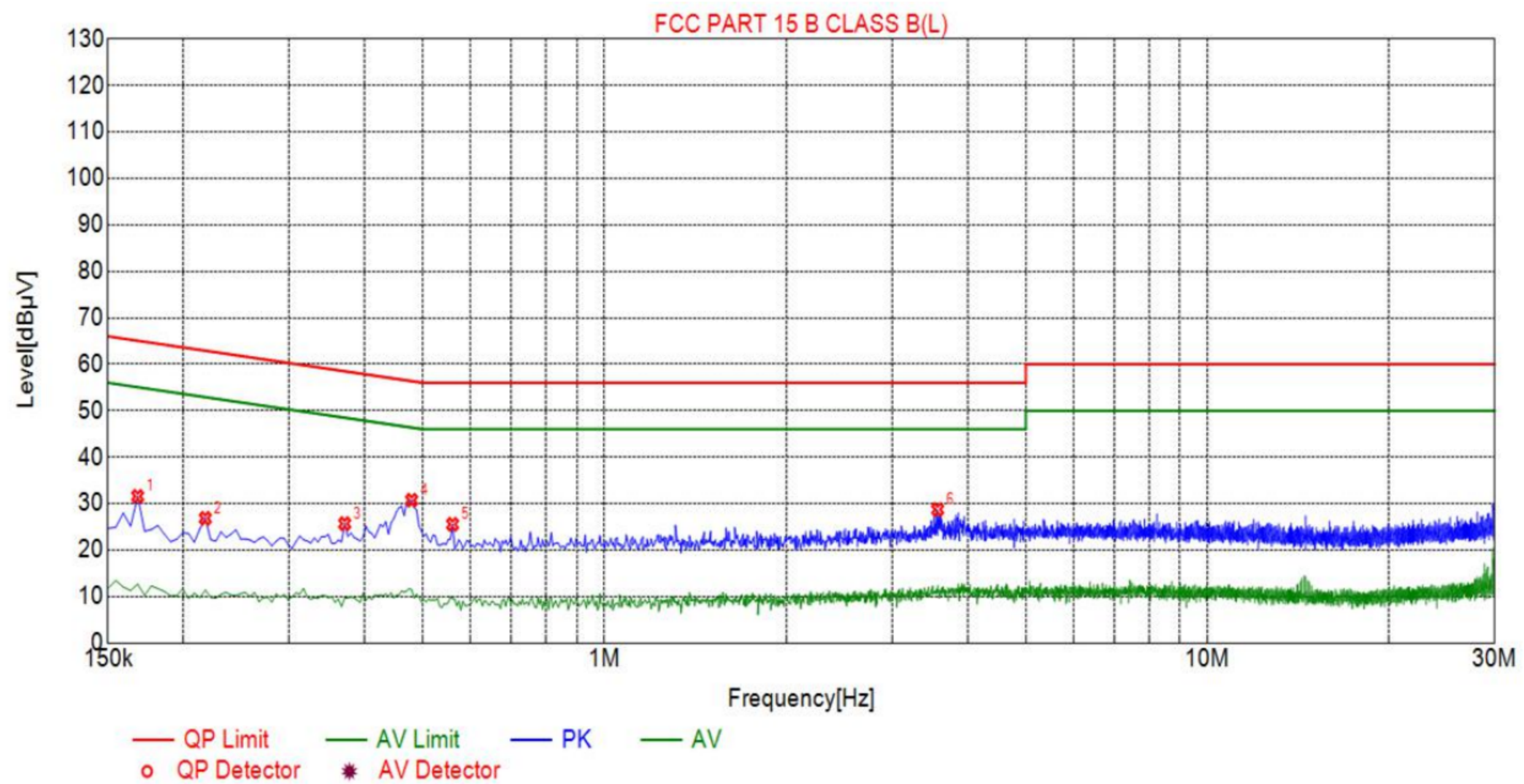
PASS

Please refer to the following page.



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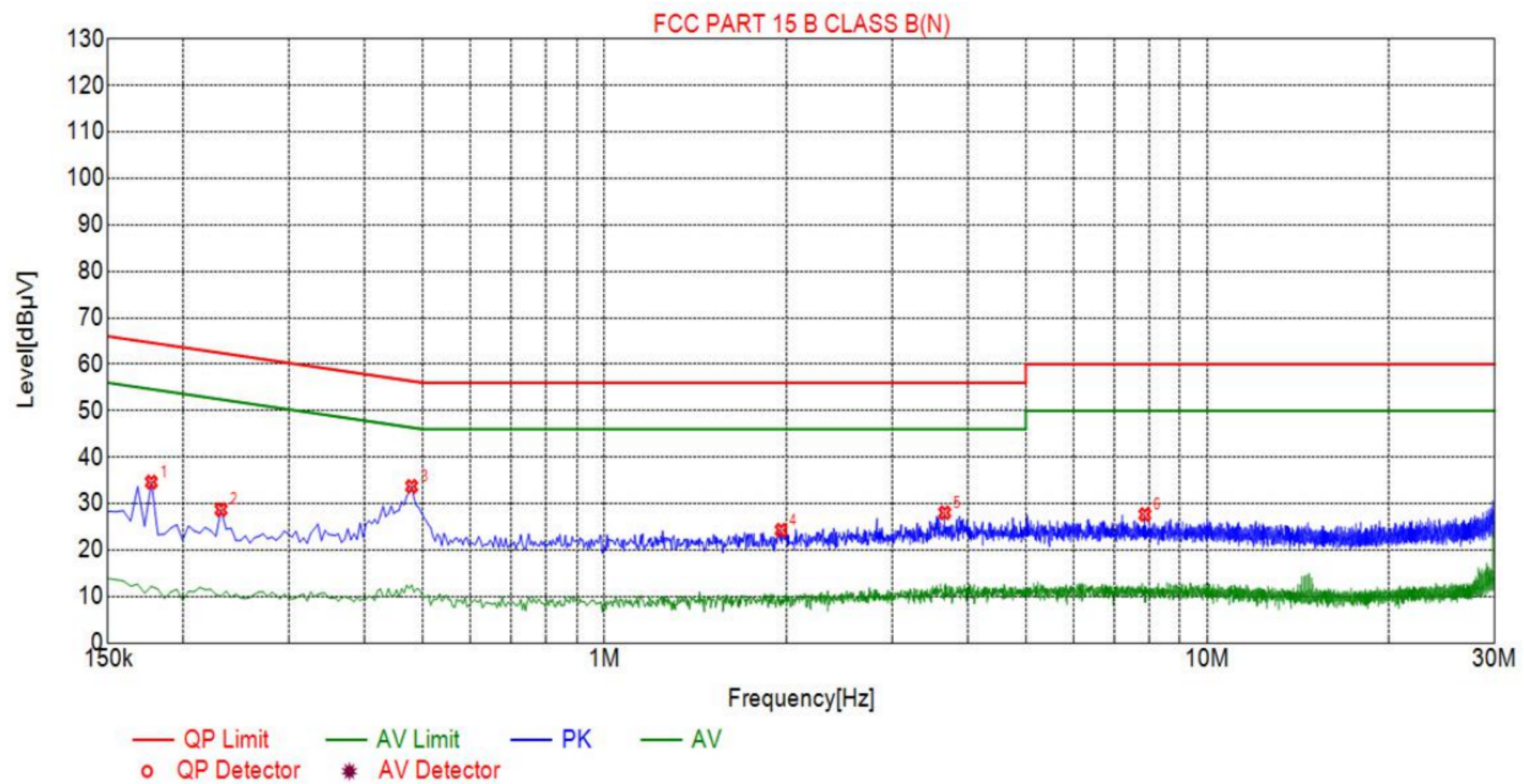
Conducted Emission At The Mains Terminals Test Data			
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Line
Test Voltage :	DC 48V From Power Adapter Input AC 110V/50Hz	Test Mode:	Charging



Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1680	31.57	20.01	65.06	33.49	11.56	PK	L
2	0.2175	26.83	20.05	62.91	36.08	6.78	PK	L
3	0.3705	25.68	20.05	58.49	32.81	5.63	PK	L
4	0.4785	30.72	20.04	56.37	25.65	10.68	PK	L
5	0.5595	25.55	20.06	56.00	30.45	5.49	PK	L
6	3.5700	28.73	20.25	56.00	27.27	8.48	PK	L

Conducted Emission At The Mains Terminals Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Neutral
Test Voltage :	DC 48V From Power Adapter Input AC 110V/50Hz	Test Mode:	Charging

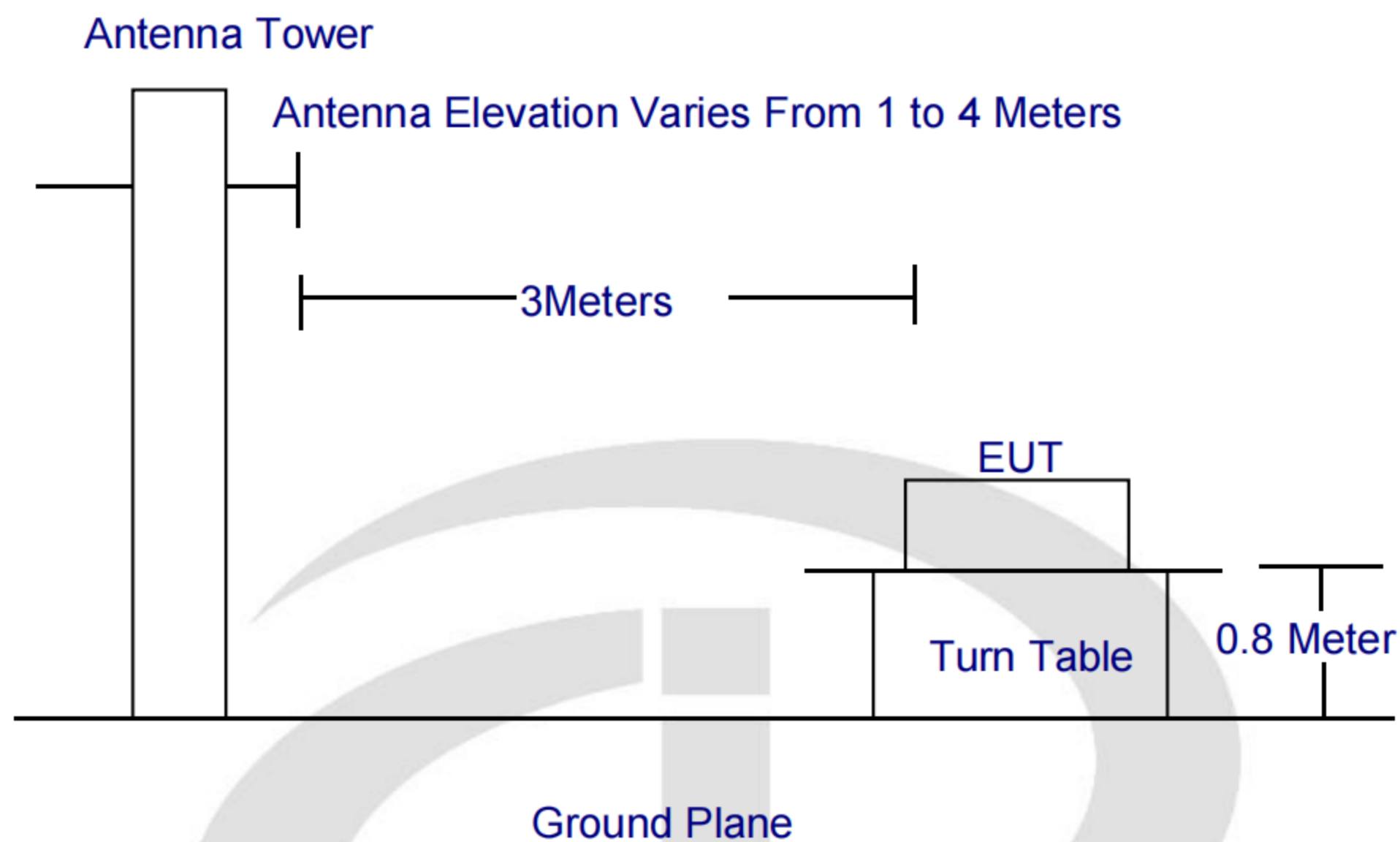


Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1770	34.63	20.05	64.63	30.00	14.58	PK	N
2	0.2310	28.71	20.03	62.41	33.70	8.68	PK	N
3	0.4785	33.71	20.04	56.37	22.66	13.67	PK	N
4	1.9635	24.27	20.14	56.00	31.73	4.13	PK	N
5	3.6690	28.04	20.25	56.00	27.96	7.79	PK	N
6	7.8810	27.64	20.16	60.00	32.36	7.48	PK	N

4. RADIATION EMISSION TEST

4.1. Block Diagram of Test Setup



4.2. Test Standard FCC PART 15 B

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.

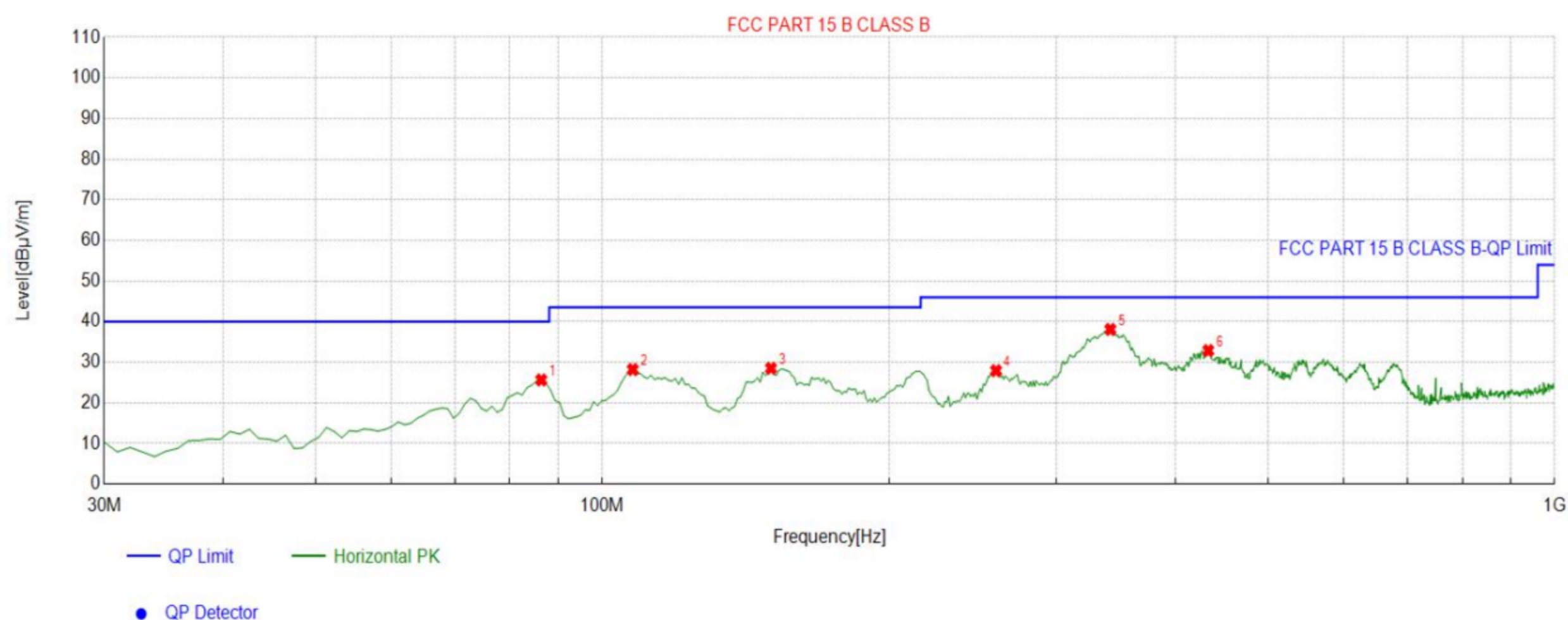
4.7. Test Result

PASS

Please refer to the following page.

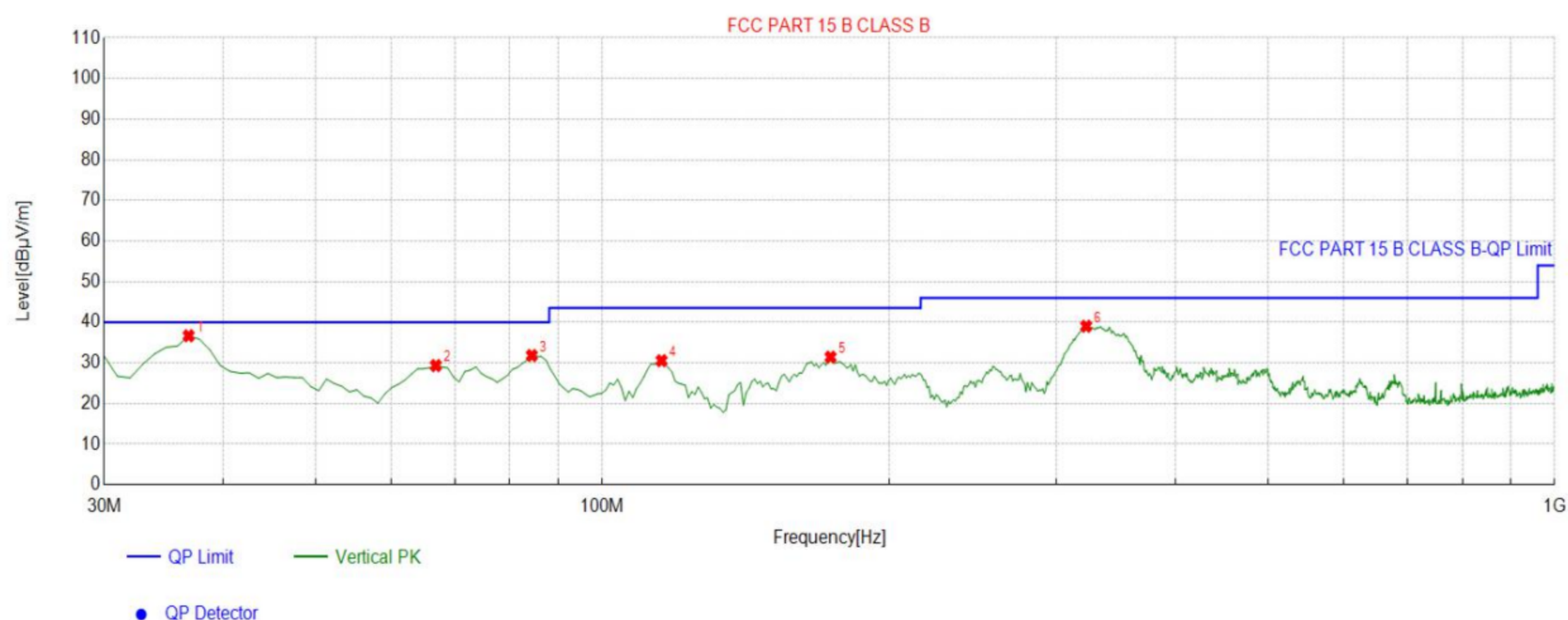
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Radiation Emission Test Data			
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Horizontal
Test Voltage :	DC 48V From Power Adapter Input AC 110V/50Hz	Test Mode:	Charging



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	86.3163	-17.82	43.45	25.63	40.00	14.37	100	123	Horizontal
2	107.6777	-14.47	42.67	28.20	43.50	15.30	100	39	Horizontal
3	150.4004	-18.48	46.97	28.49	43.50	15.01	100	29	Horizontal
4	259.1491	-12.59	40.51	27.92	46.00	18.08	100	50	Horizontal
5	341.6817	-11.07	49.14	38.07	46.00	7.93	100	26	Horizontal
6	432.9530	-7.89	40.76	32.87	46.00	13.13	100	36	Horizontal

Radiation Emission Test Data			
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Vertical
Test Voltage :	DC 48V From Power Adapter Input AC 110V/50Hz	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	36.7968	-15.57	52.24	36.67	40.00	3.33	100	228	Vertical
2	66.8969	-15.03	44.36	29.33	40.00	10.67	100	110	Vertical
3	84.3744	-17.68	49.49	31.81	40.00	8.19	100	130	Vertical
4	115.4454	-14.91	45.45	30.54	43.50	12.96	100	294	Vertical
5	173.7037	-16.50	47.91	31.41	43.50	12.09	100	359	Vertical
6	322.2623	-11.39	50.41	39.02	46.00	6.98	100	0	Vertical

APPENDIX I -- EUT PHOTOGRAPHS



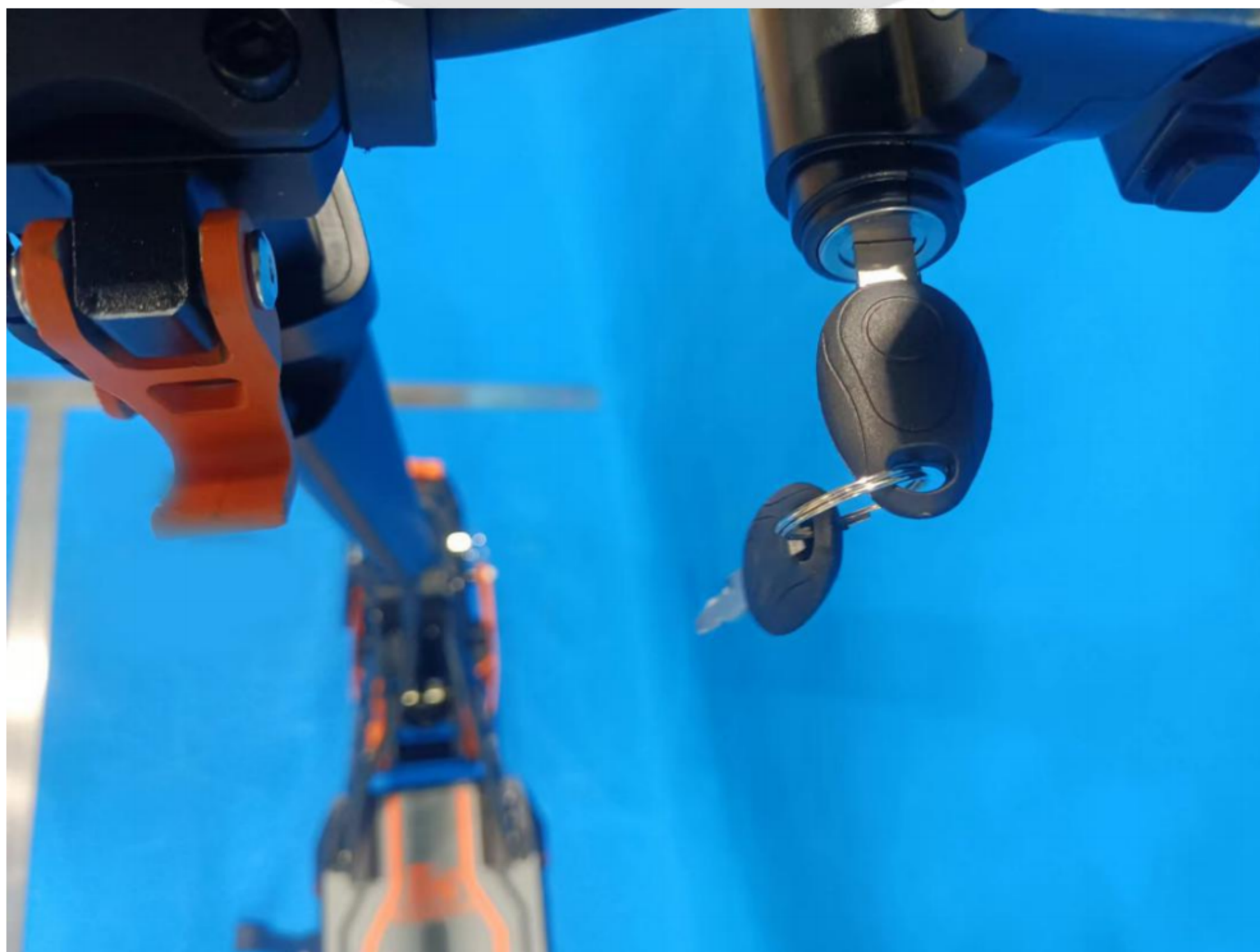
EUT Photo 1



EUT Photo 2



EUT Photo 3



EUT Photo 4



EUT Photo 5



EUT Photo 6

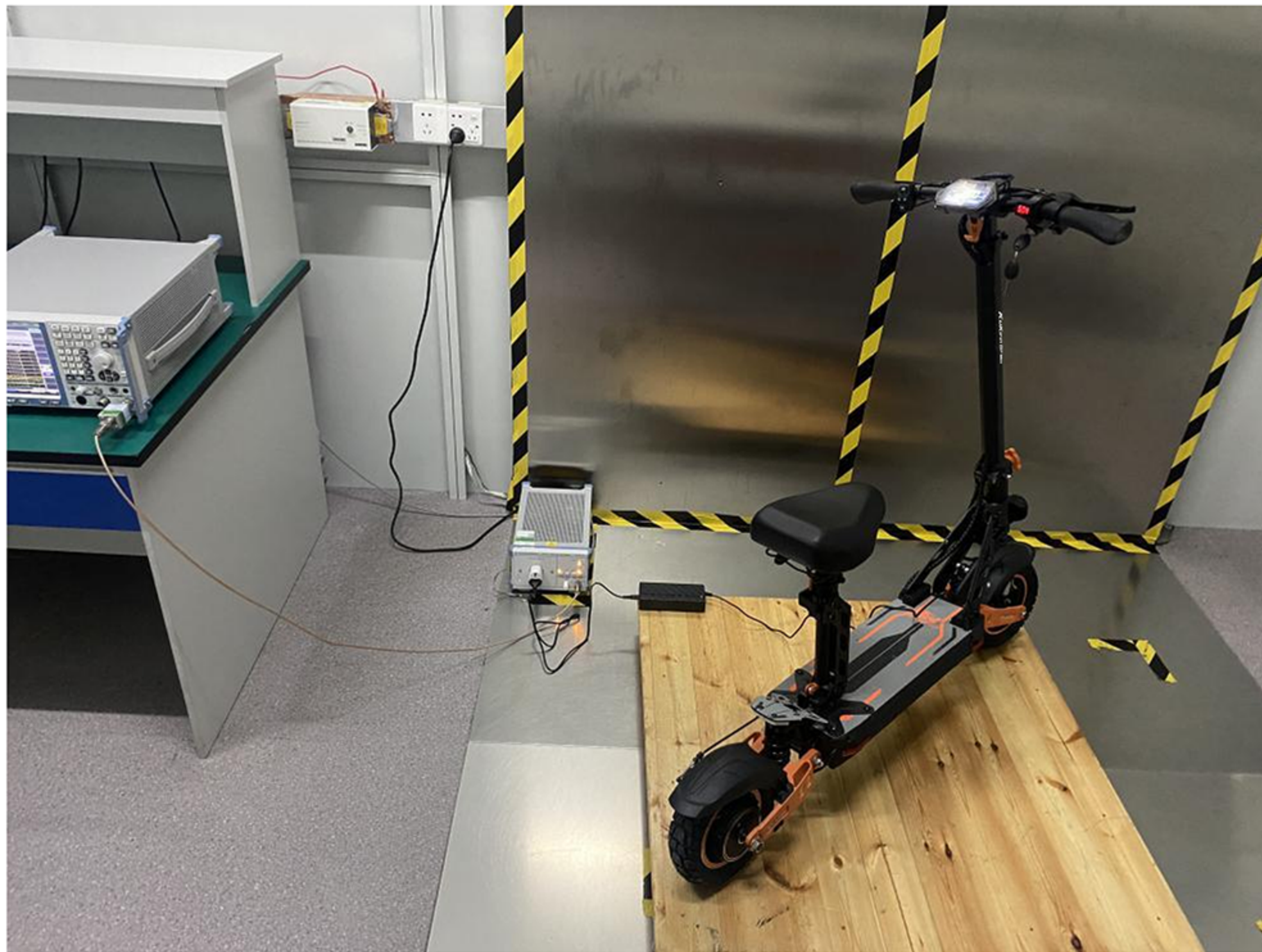


EUT Photo 7

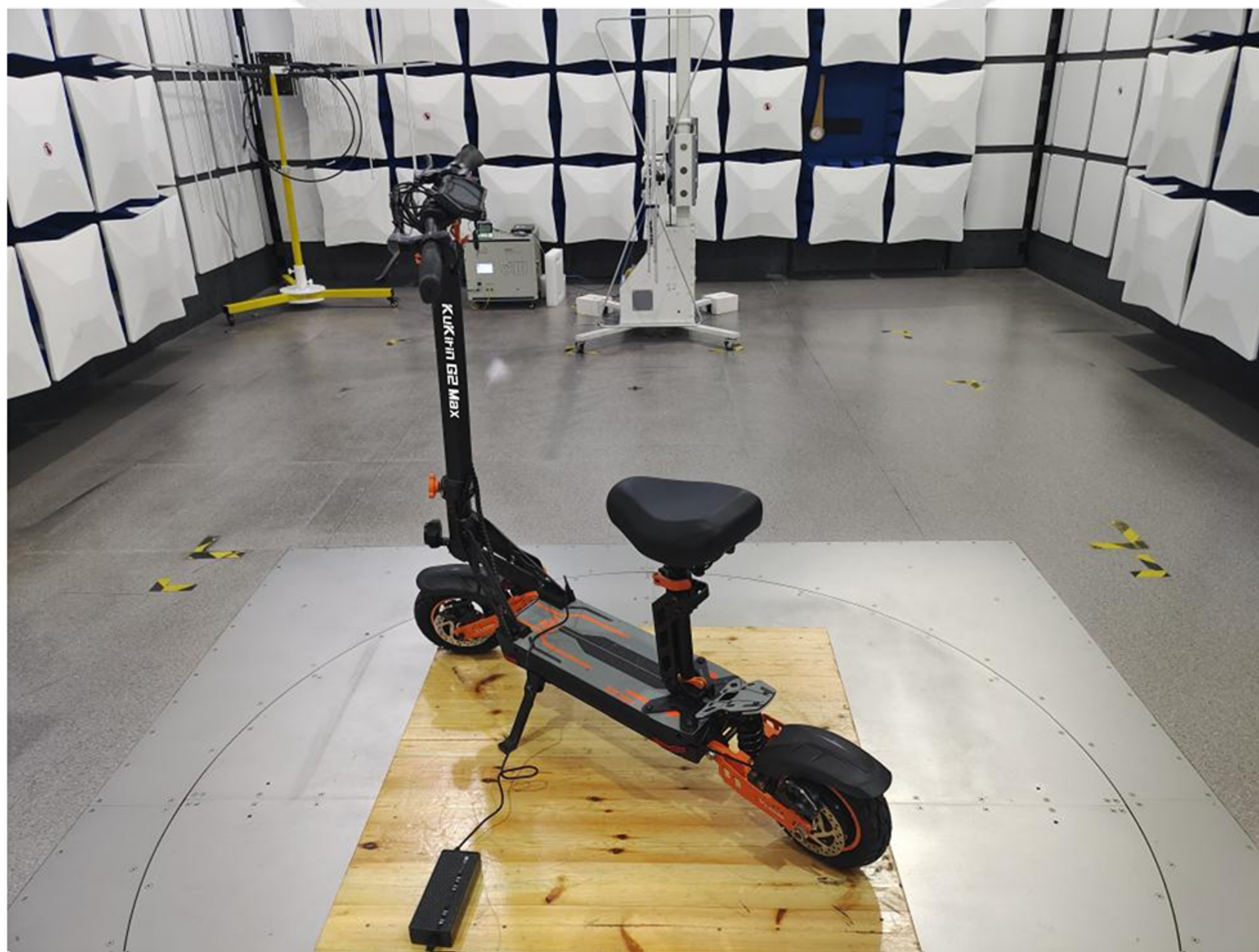


EUT Photo 8

APPENDIX II -- EUT TEST PHOTOGRAPHS



EUT Photo CE



EUT Photo RE

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