



Report No.: TW2202145E

File Reference No.: 2022-03-11

Applicant: Kamoer Fluid Tech (Shanghai) Co., Ltd.

Product: X1 PRO T Stepper Micropump

Trademark:



Model No.: X1 PRO T

Test Standards: FCC Part 15 Subpart B

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By:

Terry Tang

Terry Tang

Manager

Dated: March 11, 2022

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES.

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,
Tong Le Village, Nanshan District, Shenzhen, China**

Tel (755) 83448688

Fax (755) 83442996

Email: info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Kamoer Fluid Tech (Shanghai) Co., Ltd.
Address: 4th building, No79 Xiangjing Road, Songjiang District, Shanghai, China
Telephone: +86-21-67742578
Fax: --

1.3 Description of EUT

Product: X1 PRO T Stepper Micropump
Manufacturer: Kamoer Fluid Tech (Shanghai) Co., Ltd.
Address: 4th building, No79 Xiangjing Road, Songjiang District, Shanghai, China
Trademark:



Model Number: X1 PRO T
Rating: DC12V, 2A
Power Supply: Model: TDX-1202000; Input: 100-240V~, 50/60Hz, 0.6A; Output: DC12V, 2A
Hardware Version: V1.2
Software Version: 1.0.08
Serial No.: 5139101416

1.4 Submitted Sample: 2 pc

1.5 Test Duration

Date of Receipt of Application: February 24, 2022
Date of Receipt of Test Item: February 24, 2022
Date of Test: February 24, 2022 ~ March 10, 2022

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 1GHz Uncertainty =4.7dB
Radiated Emissions above 1GHz Uncertainty =6.0dB

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Note: The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing



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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2021.06.18	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2021.06.18	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2021.06.18	1 Year
LISN	ESH3-Z5	100294	RS	2021.06.18	1 Year
LISN	ESH3-Z5	100253	RS	2021.06.18	1 Year
LISN	NNB42	00012	SCHAFFNER	2022.01.05	1 Year

2.2 Radiated electromagnetic disturbance test

Name	Model No	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESPI 3	100379	RS	2021.06.18	1 Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2021.06.18	1 Year
Amplifier	BBV9743	#218	HP/Agilent	2021.06.18	1 Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2021.07.02	3 Year
Horn Antenna	BBHA 9120D	9120D-631	RS	2021.07.02	3 Year
Amplifier	8449B	3008A00160	HP/Agilent	2021.06.18	1 Year

2.3 Auxiliary Equipment

Device	Manufacturer	Model	Rating
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3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

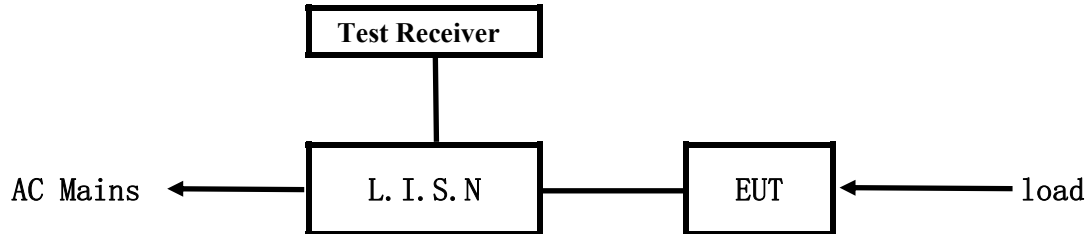
FCC Part 15 Subpart B

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4.0 Conducted Power line Test

4.1 Schematics of the test



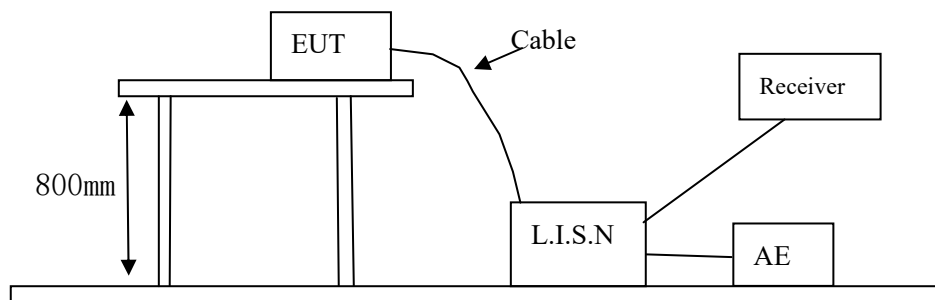
EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2014. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



4.3 Power line conducted Emission Limit

Frequency (MHz)	Class A Limits dB(μV)		Class B Limits dB(μV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

- Notes:
1. *decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

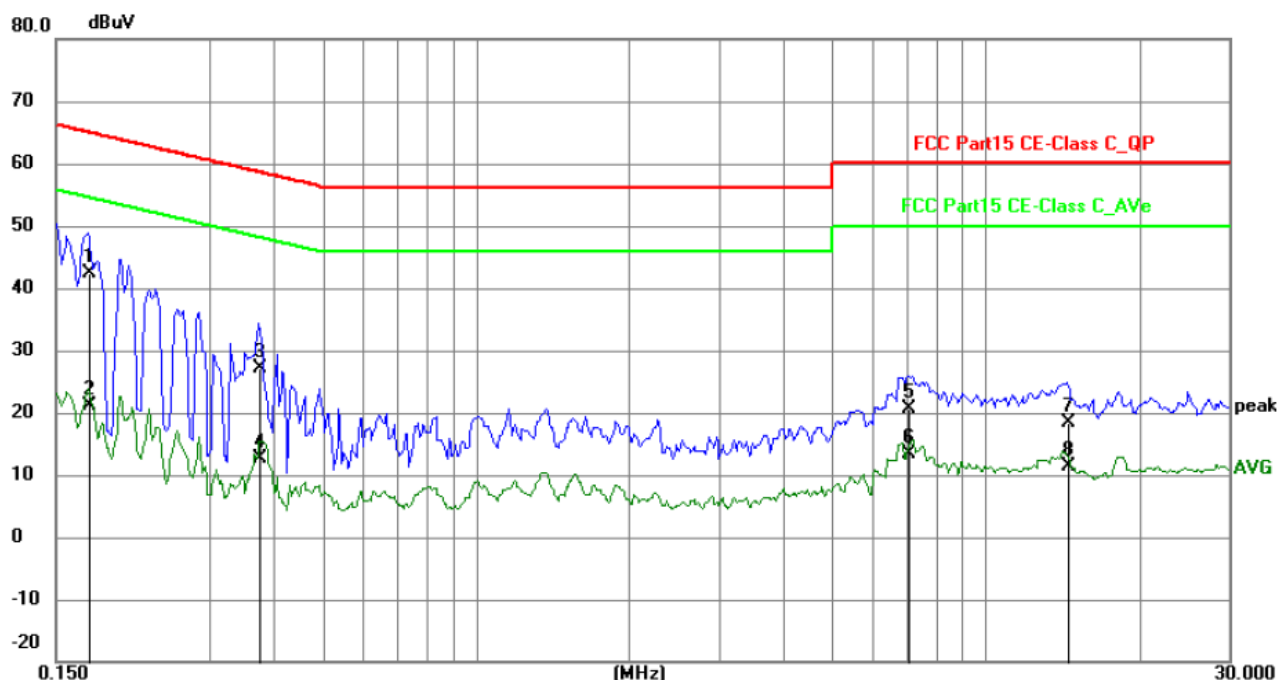
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Normal Operation

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	32.62	9.77	42.39	64.80	-22.41	QP	P
2	0.1734	11.47	9.77	21.24	54.80	-33.56	AVG	P
3	0.3762	17.41	9.76	27.17	58.36	-31.19	QP	P
4	0.3762	2.87	9.76	12.63	48.36	-35.73	AVG	P
5	7.0599	10.57	10.01	20.58	60.00	-39.42	QP	P
6	7.0599	3.42	10.01	13.43	50.00	-36.57	AVG	P
7	14.4816	8.08	10.36	18.44	60.00	-41.56	QP	P
8	14.4816	1.01	10.36	11.37	50.00	-38.63	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

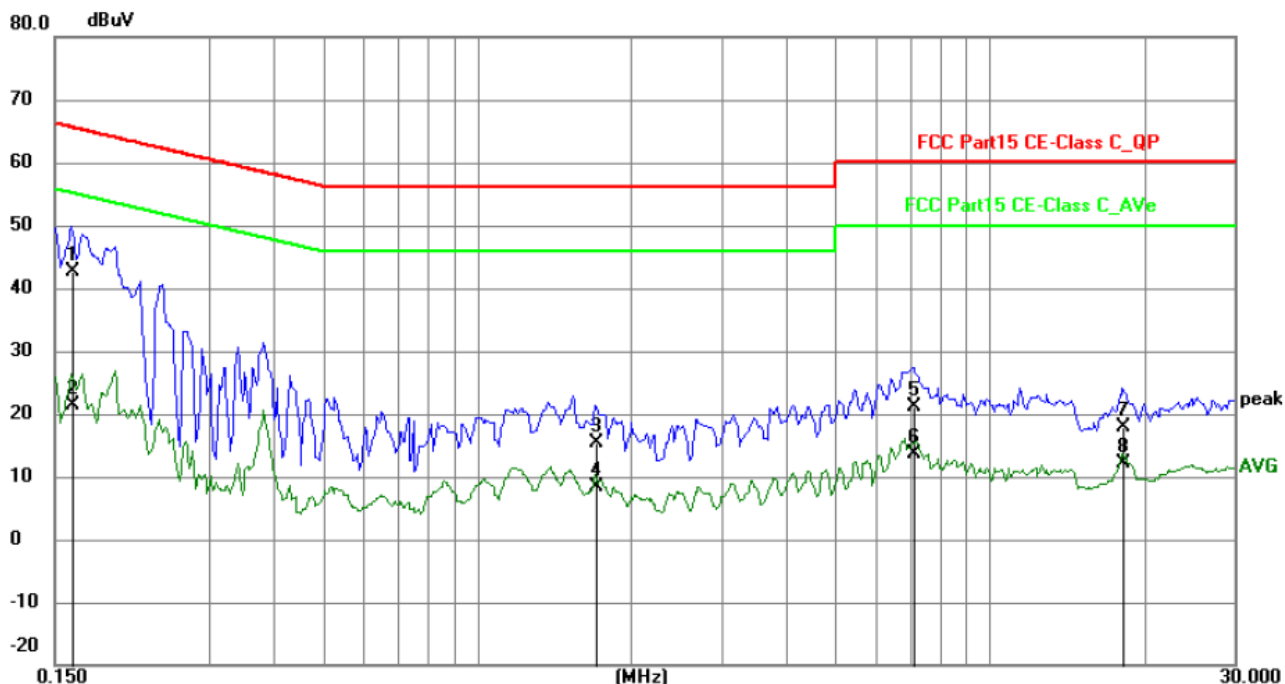
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Normal Operation

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	32.79	9.78	42.57	65.38	-22.81	QP	P
2	0.1617	11.70	9.78	21.48	55.38	-33.90	AVG	P
3	1.6983	5.56	9.80	15.36	56.00	-40.64	QP	P
4	1.6983	-1.52	9.80	8.28	46.00	-37.72	AVG	P
5	7.0833	11.02	10.01	21.03	60.00	-38.97	QP	P
6	7.0833	3.65	10.01	13.66	50.00	-36.34	AVG	P
7	18.2256	7.35	10.57	17.92	60.00	-42.08	QP	P
8	18.2256	1.47	10.57	12.04	50.00	-37.96	AVG	P

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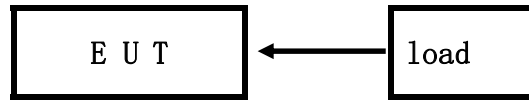
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

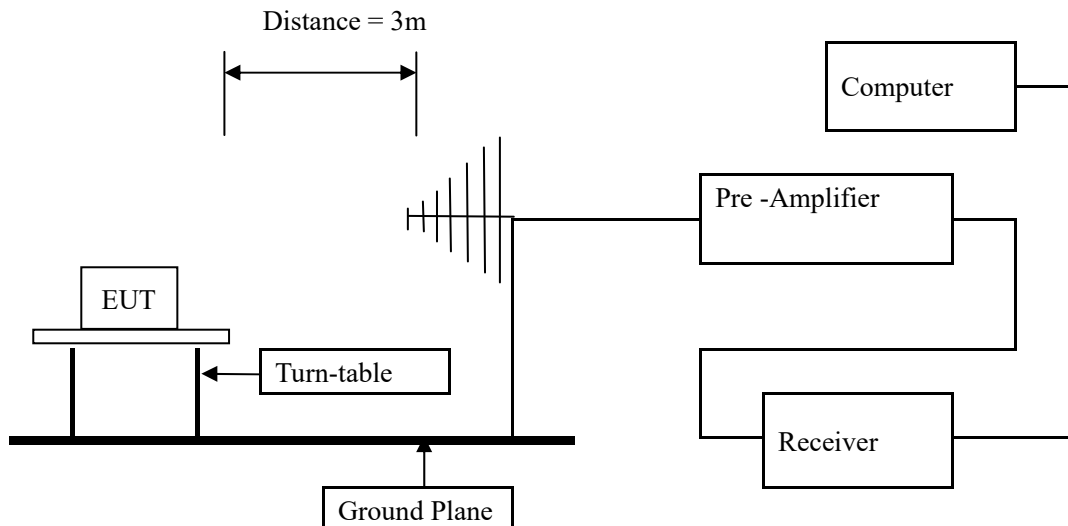


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 9kHz to 25GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



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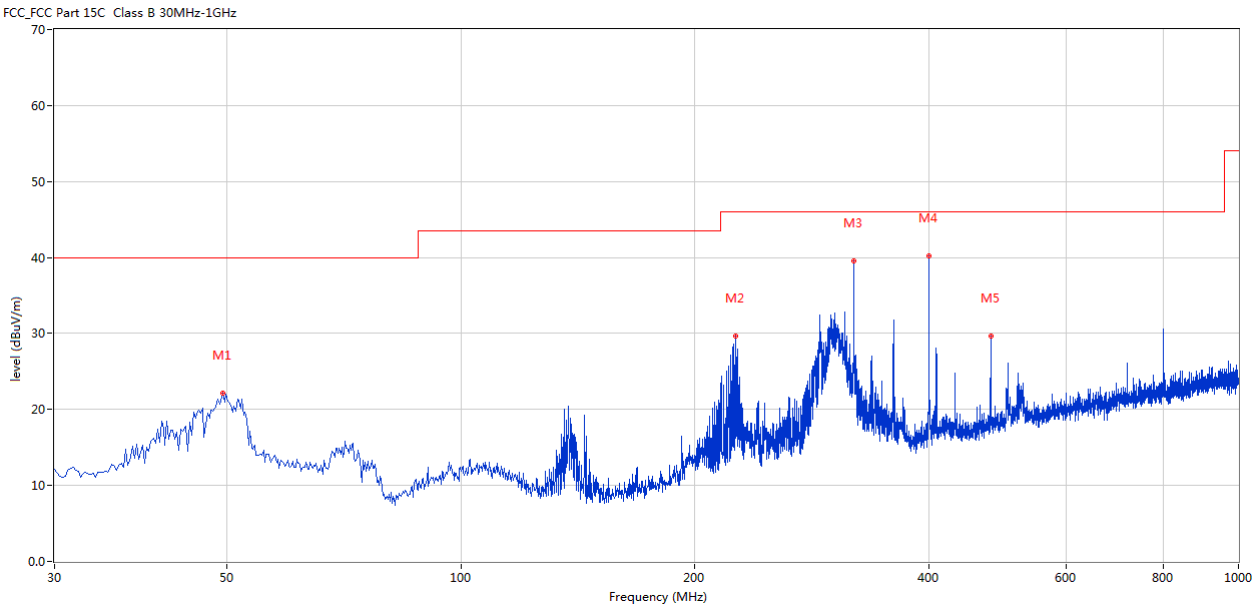
Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

The frequency spectrum from 9MHz to 25GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

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A: Radiated Disturbance (30MHz----1000MHz)

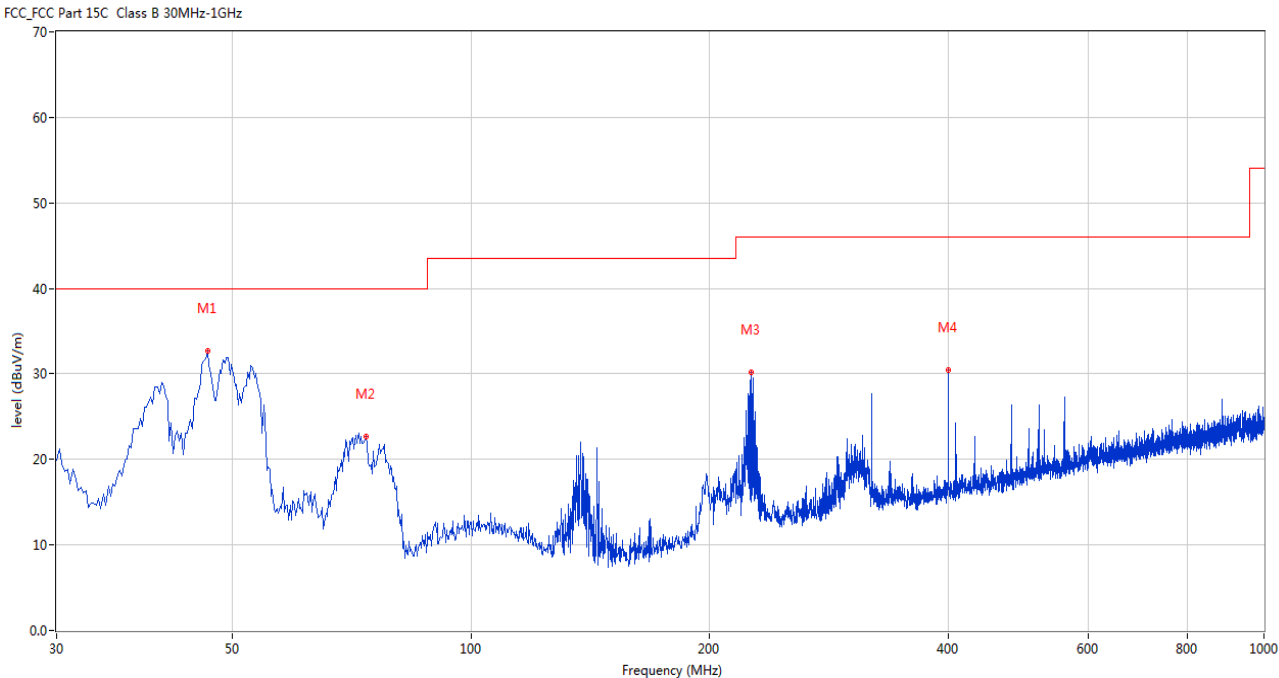


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	49.395	22.19	-11.28	40.0	-17.81	Peak	137.00	100	Horizontal	Pass
2	225.406	29.70	-12.89	46.0	-16.30	Peak	310.00	100	Horizontal	Pass
3	319.958	39.56	-10.60	46.0	-6.44	Peak	120.00	100	Horizontal	Pass
4	399.963	40.20	-8.57	46.0	-5.80	Peak	115.00	100	Horizontal	Pass
5	479.968	29.68	-7.40	46.0	-16.32	Peak	110.00	100	Horizontal	Pass

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B: Radiated Disturbance (30MHz----1000MHz)



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	46.486	32.67	-11.43	40.0	-7.33	Peak	172.00	100	Vertical	Pass
2	73.639	22.67	-17.02	40.0	-17.33	Peak	0.00	100	Vertical	Pass
3	225.406	30.15	-12.89	46.0	-15.85	Peak	161.00	100	Vertical	Pass
4	399.963	30.48	-8.57	46.0	-15.52	Peak	150.00	100	Vertical	Pass

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C: Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

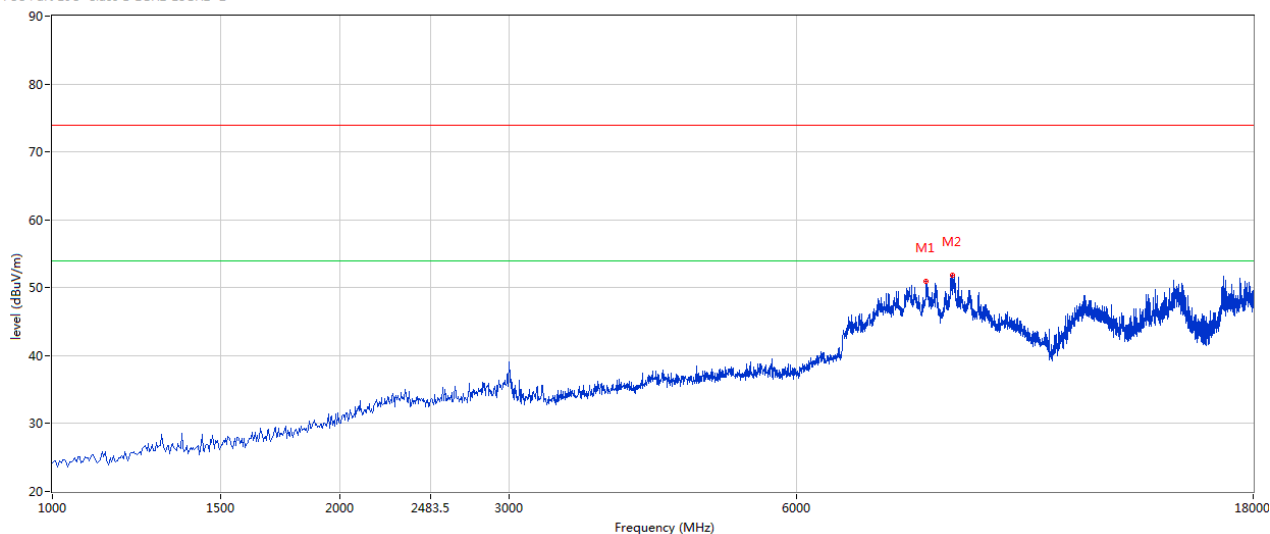
EUT set Condition: Normal Operation

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	8193.452	50.89	8.34	74.0	-23.11	Peak	304.00	100	H	Pass
2	8733.067	51.86	7.98	74.0	-22.14	Peak	320.00	100	H	Pass

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D: Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

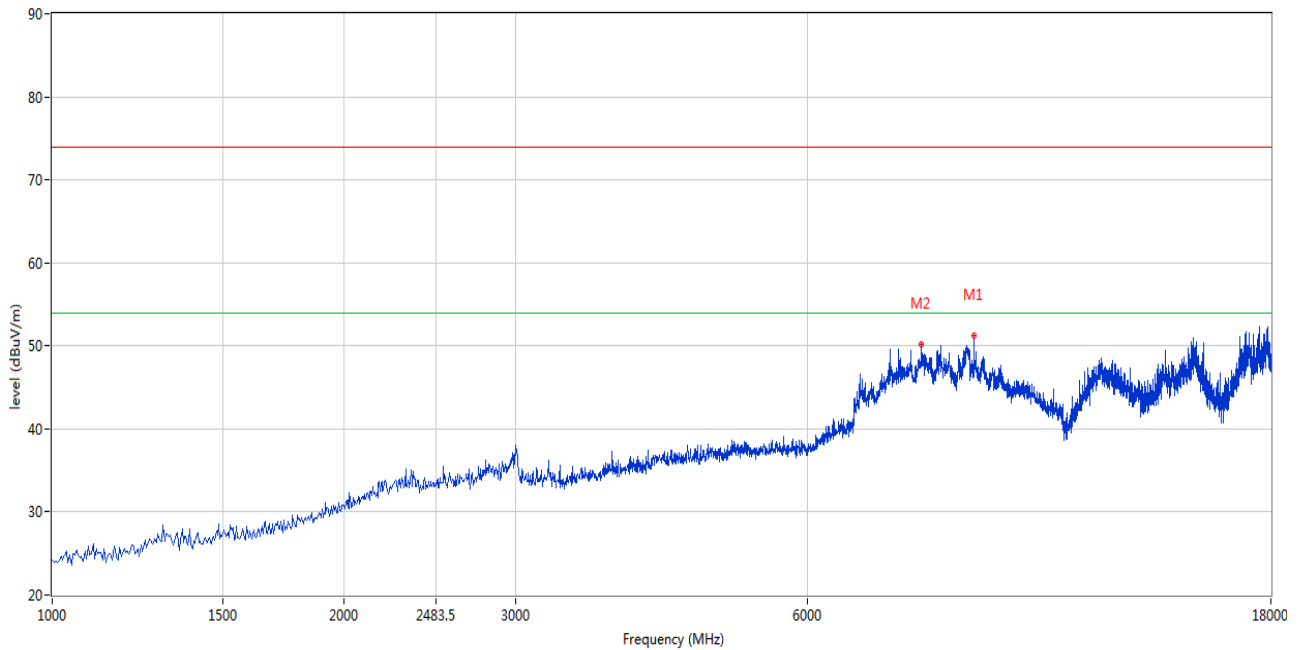
EUT set Condition: Normal Operation

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	8903.024	51.17	7.89	74.0	-22.83	Peak	68.00	100	V	Pass
2	7853.537	50.20	8.40	74.0	-23.80	Peak	13.00	100	V	Pass

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6.0 FCC Label

FCC ID: 2A5EG-X1PROT

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.



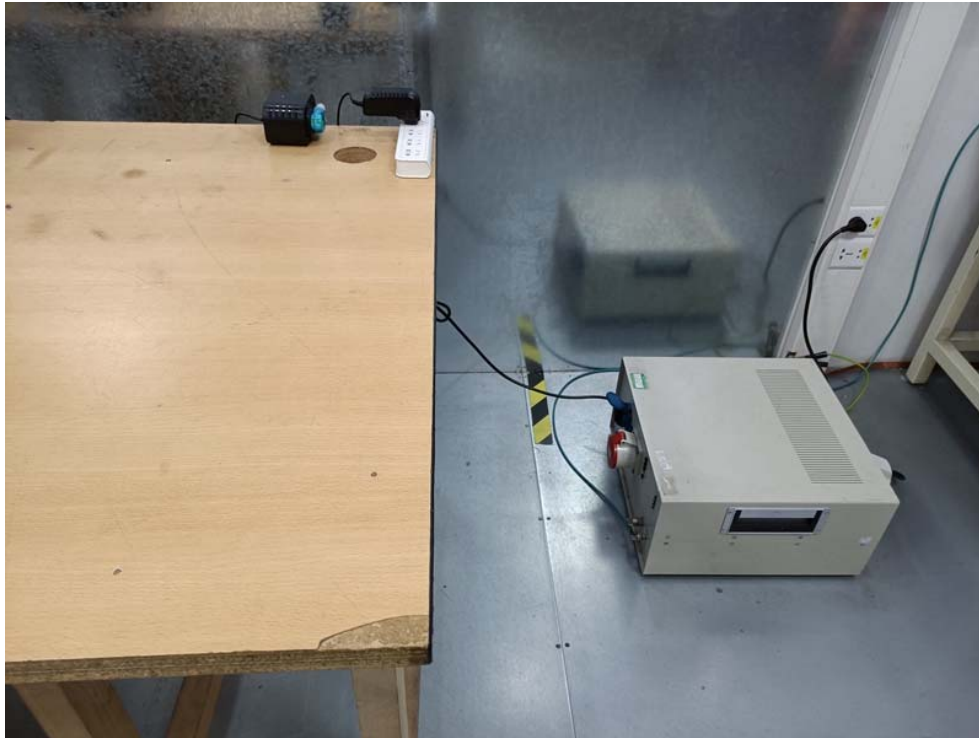
Label Location

"The report refers only to the sample tested and does not apply to the bulk production. This report is issued in confidential to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for illegal purpose. The client to whom the report is issued may, however, show or send it, or a certified copy thereof prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES reserves the rights to withdraw it and to adopt any other remedies which may be appropriate."



7.0 Photo of testing

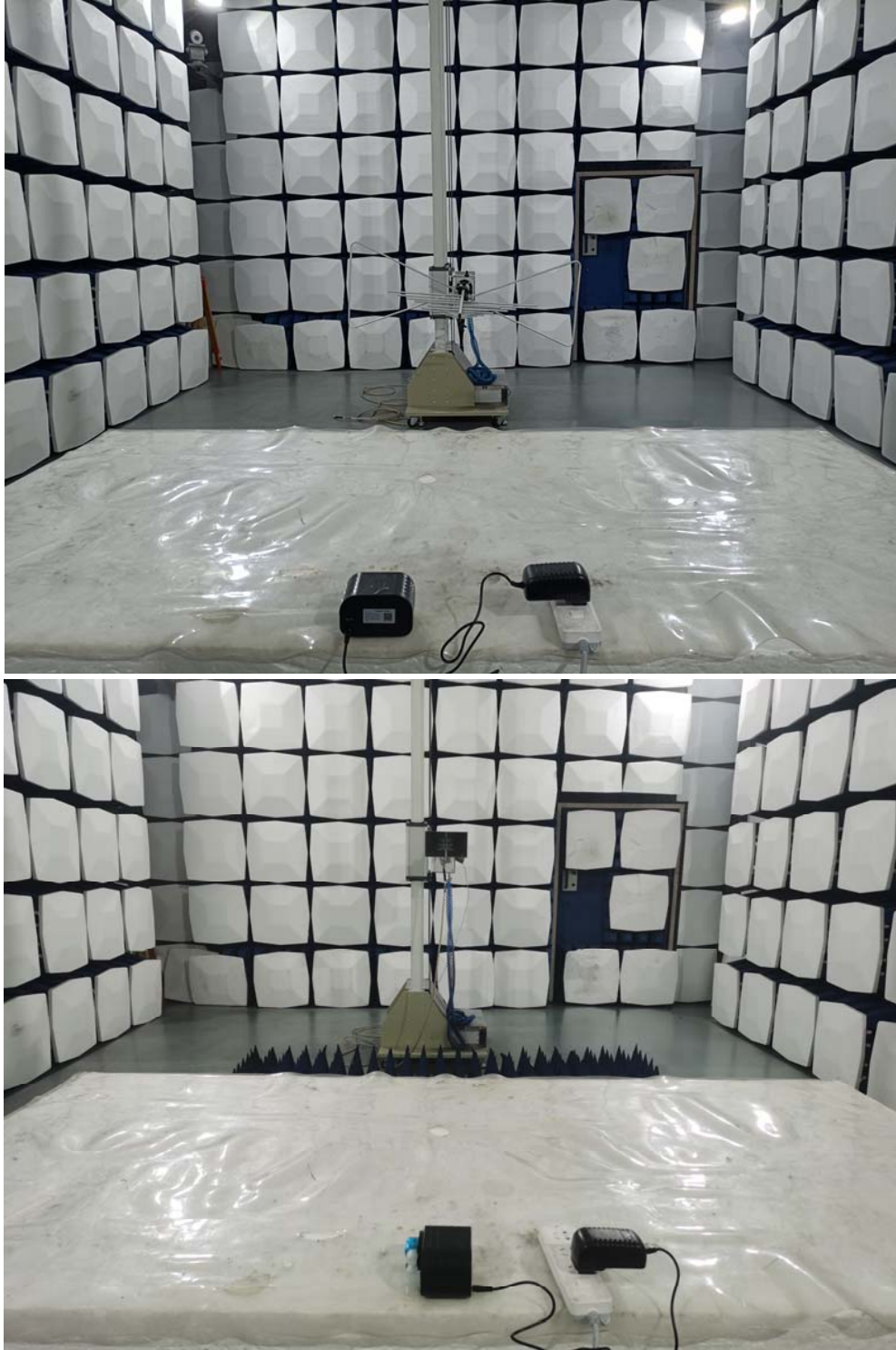
Conducted Emissions



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Radiated Emissions



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Photographs – EUT



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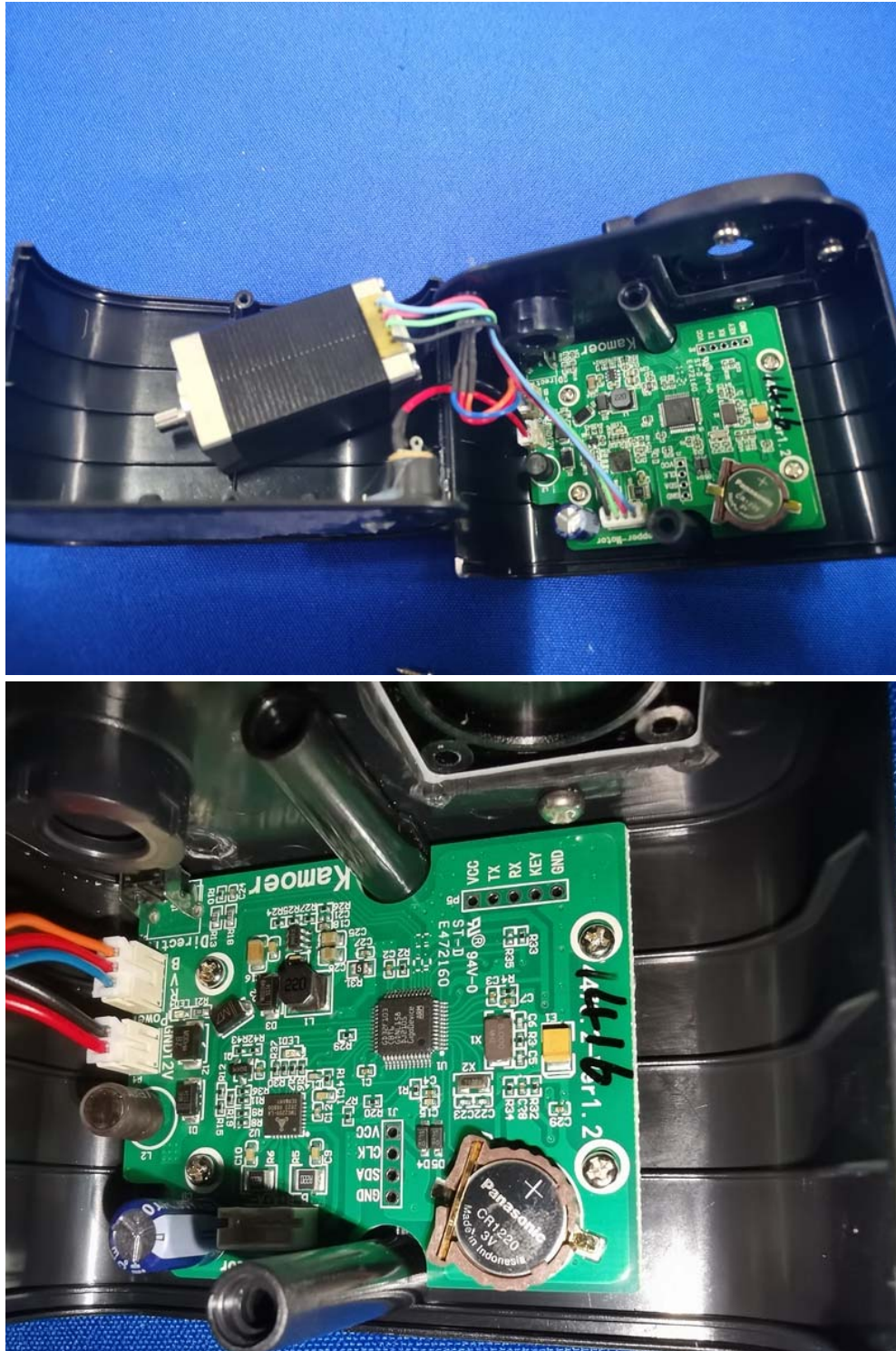


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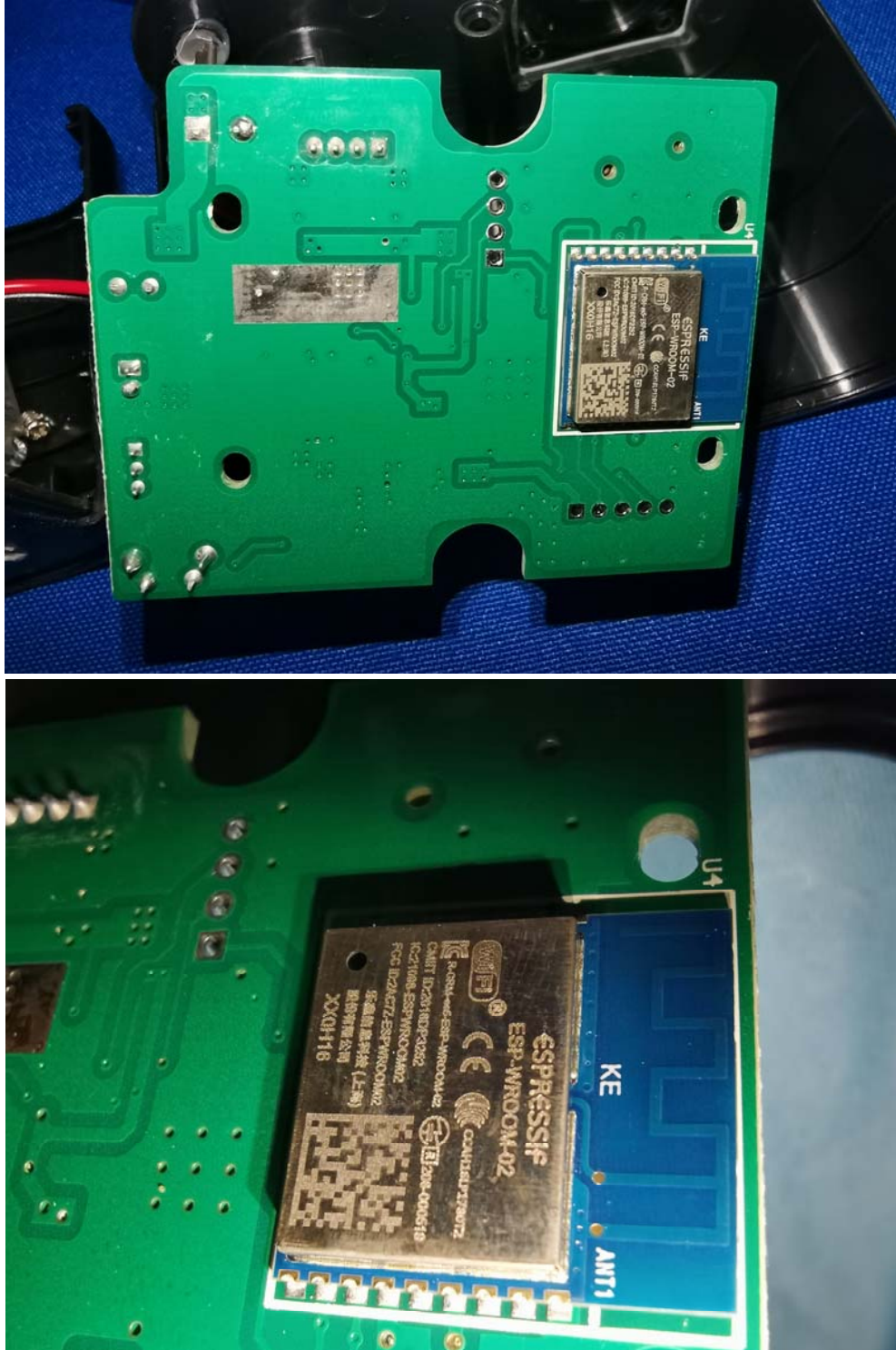
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End of The Report

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