



Report No.: TW2202144E

File Reference No.: 2022-03-03

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

Product: X1 PRO T2 Stepper Micropump

Trademark: 

Model No.: X1 PRO T2

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

Manager

Dated: March 03, 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 T2 Stepper Micropump
Manufacturer: Kamoer Fluid Tech (Shanghai) Co., Ltd.
Address: 4th building, No79 Xiangjing Road, Songjiang District, Shanghai, China
Trademark: 

Model Number: X1 PRO T2
Rating: DC24V, 1.9A
Power Supply: Model: TDX-2401900; Input: 100-240V~, 50/60Hz, 0.6A; Output: DC24V, 1.9A
Hardware Version: V1.3
Software Version: 1.0.01
Serial No.: 5207501133

1.4 Submitted Sample: 2 pcs

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 03, 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

Andy Xing

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

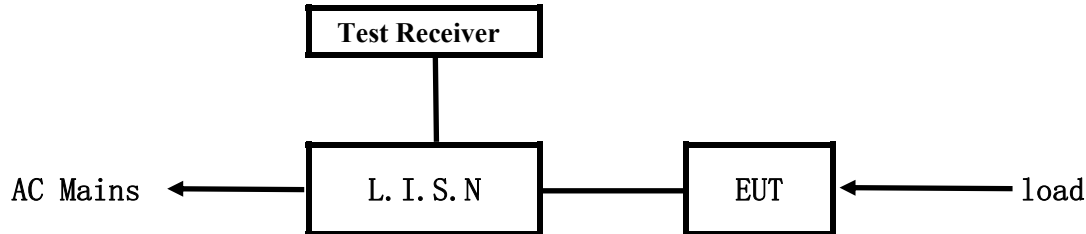
FCC Part 15 Subpart B

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4.0 Conducted Power line Test

4.1 Schematics of the test



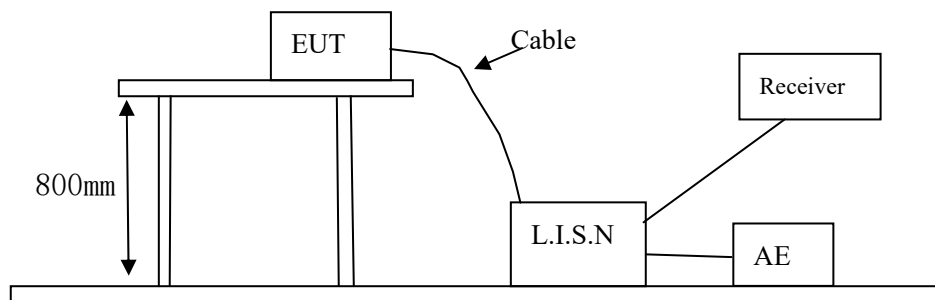
EUT: Equipment Under Test

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)

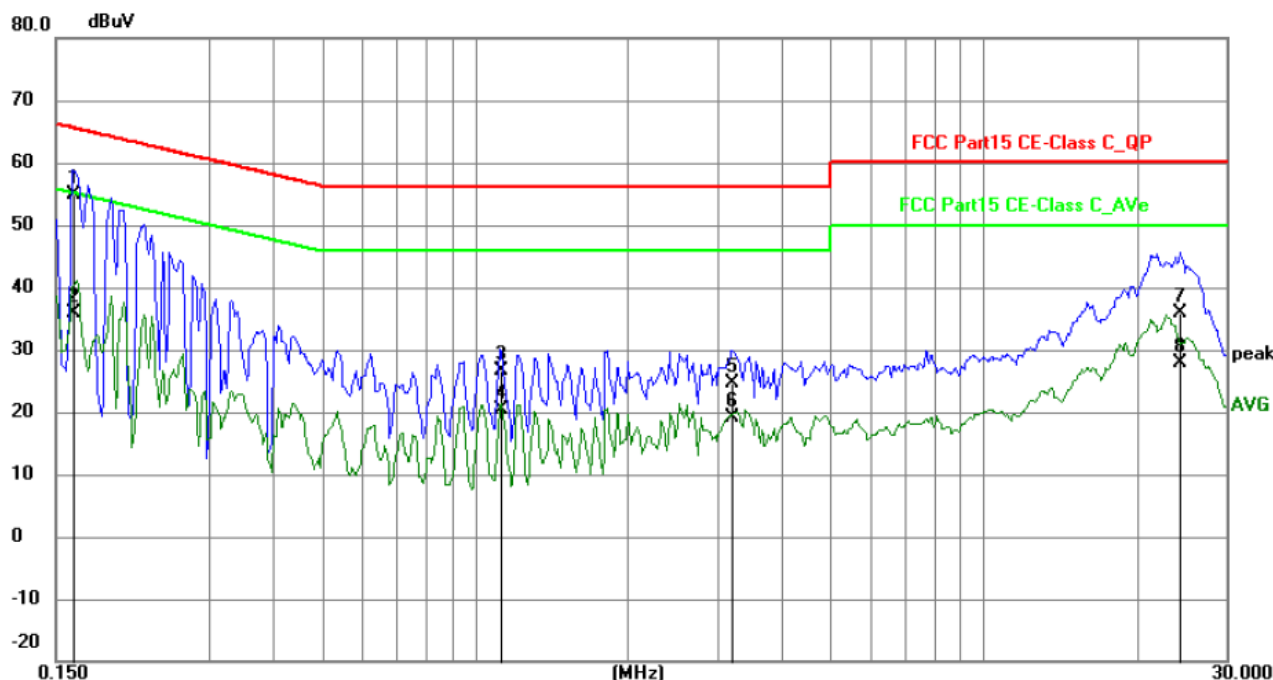
EUT Operating Environment

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	0.1617	45.02	9.78	54.80	65.38	-10.58	QP	P
2	0.1617	26.04	9.78	35.82	55.38	-19.56	AVG	P
3	1.1211	16.78	9.79	26.57	56.00	-29.43	QP	P
4	1.1211	10.68	9.79	20.47	46.00	-25.53	AVG	P
5	3.1989	14.72	9.85	24.57	56.00	-31.43	QP	P
6	3.1989	9.21	9.85	19.06	46.00	-26.94	AVG	P
7	24.3369	24.88	10.95	35.83	60.00	-24.17	QP	P
8	24.3369	16.85	10.95	27.80	50.00	-22.20	AVG	P

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

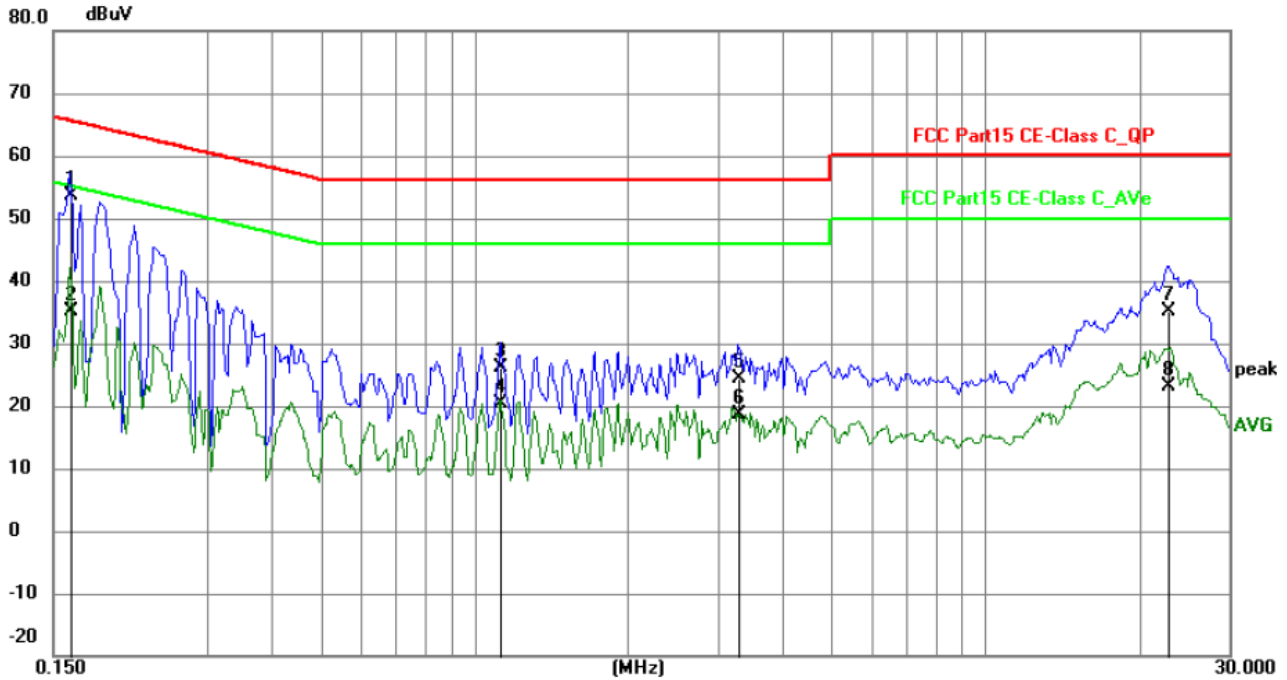
EUT Operating Environment

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	43.84	9.78	53.62	65.38	-11.76	QP	P
2	0.1617	25.43	9.78	35.21	55.38	-20.17	AVG	P
3	1.1250	16.30	9.79	26.09	56.00	-29.91	QP	P
4	1.1250	10.53	9.79	20.32	46.00	-25.68	AVG	P
5	3.2847	14.43	9.86	24.29	56.00	-31.71	QP	P
6	3.2847	8.86	9.86	18.72	46.00	-27.28	AVG	P
7	22.6560	24.41	10.84	35.25	60.00	-24.75	QP	P
8	22.6560	12.28	10.84	23.12	50.00	-26.88	AVG	P

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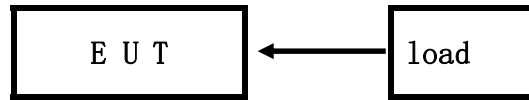
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

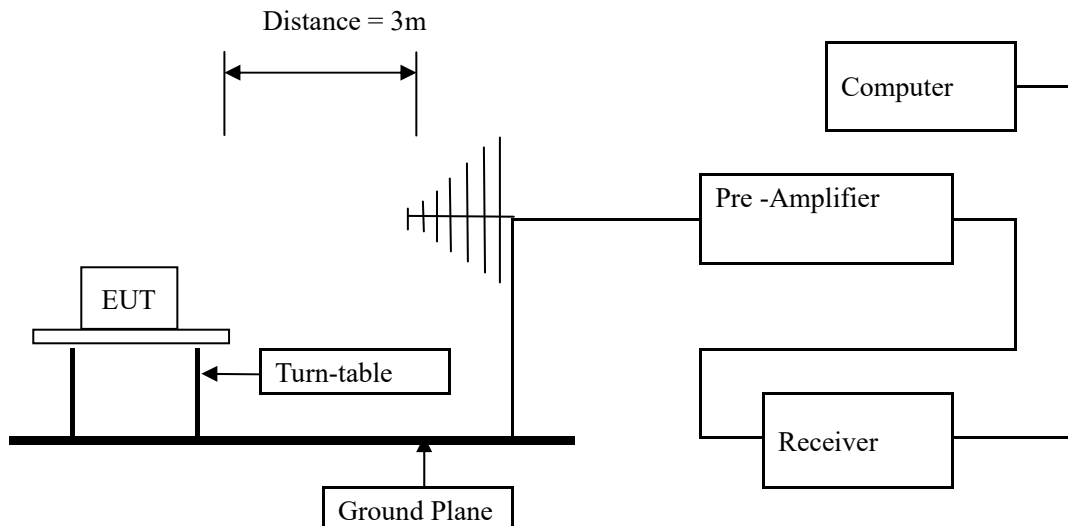


5.2 Test Method and test Procedure:

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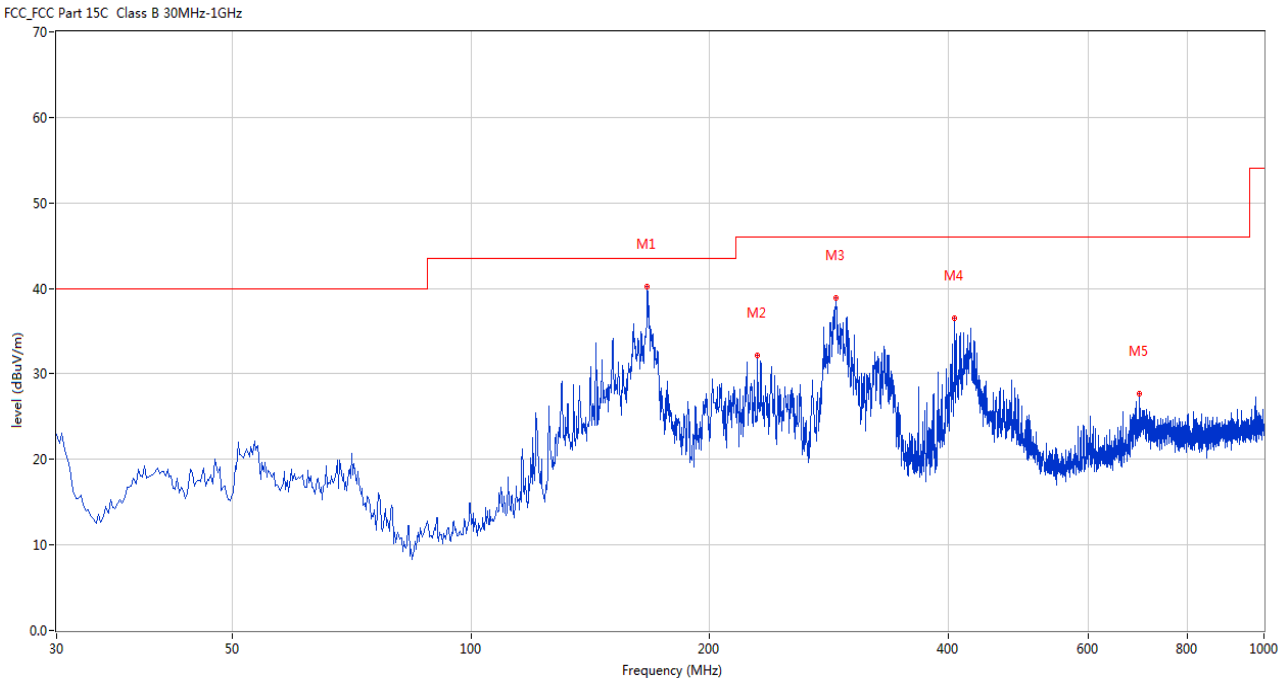
Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

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)

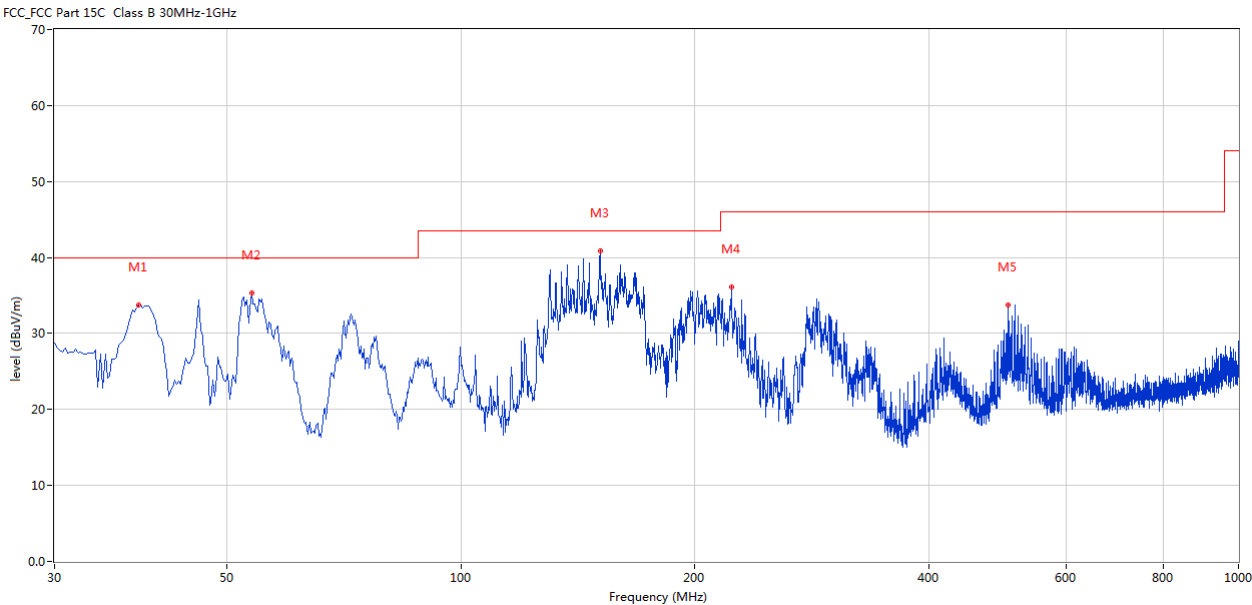


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	166.736	40.19	-16.06	43.5	-3.31	Peak	0.00	100	Horizontal	Pass
2	229.770	32.16	-12.68	46.0	-13.84	Peak	52.00	100	Horizontal	Pass
3	288.198	38.87	-11.26	46.0	-7.13	Peak	64.00	100	Horizontal	Pass
4	407.236	36.53	-8.58	46.0	-9.47	Peak	64.00	100	Horizontal	Pass
5	697.193	26.46	-4.26	46.0	-19.54	Peak	170.00	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	38.485	33.77	-12.66	40.0	-6.23	Peak	312.00	100	Vertical	Pass
2	53.759	35.29	-11.53	40.0	-4.71	Peak	312.00	100	Vertical	Pass
3	150.977	40.83	-16.98	43.5	-2.67	Peak	324.00	100	Vertical	Pass
4	222.739	36.08	-13.19	46.0	-9.92	Peak	149.00	100	Vertical	Pass
5	506.151	33.76	-6.89	46.0	-12.24	Peak	173.00	100	Vertical	Pass

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

EUT Operating Environment

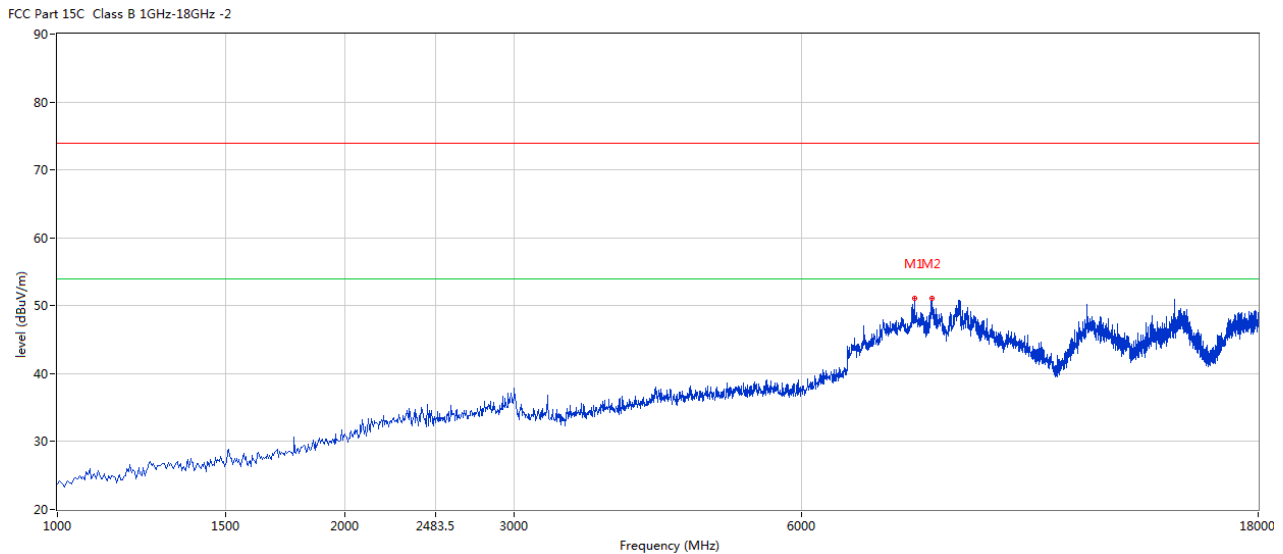
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Normal Operation

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	7874.781	51.10	8.41	74.0	-22.90	Peak	177.00	100	H	Pass
2	8201.950	51.16	8.33	74.0	-22.84	Peak	0.00	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

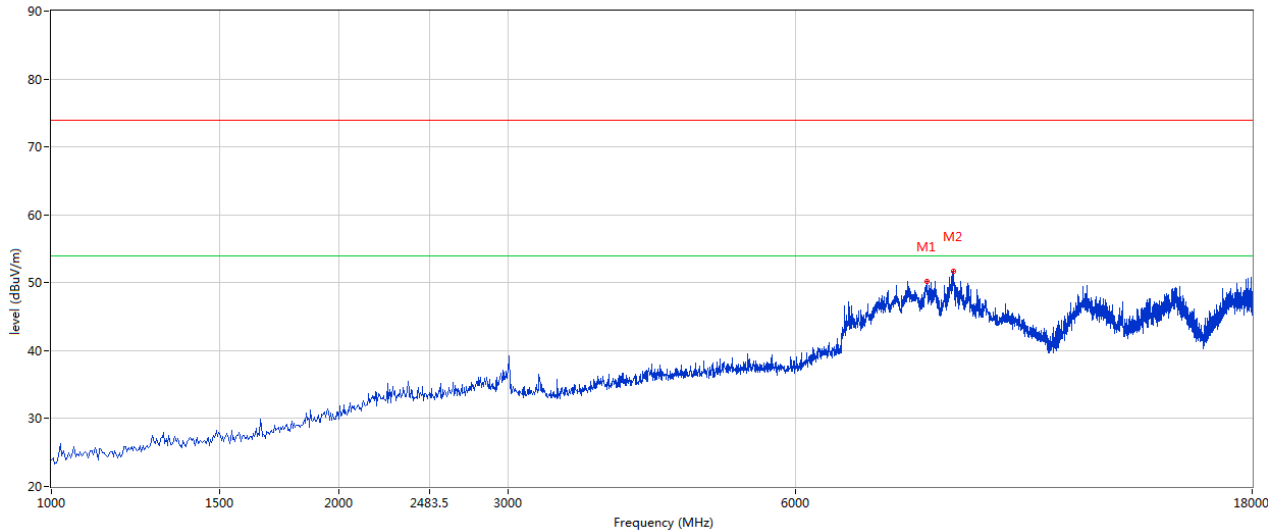
EUT set Condition: Normal Operation

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	8231.692	50.25	8.31	74.0	-23.75	Peak	297.00	100	V	Pass
2	8762.809	51.74	7.96	74.0	-22.26	Peak	187.00	100	V	Pass

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6.0 FCC Label

FCC ID: 2A5EG-X1PROT2

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.

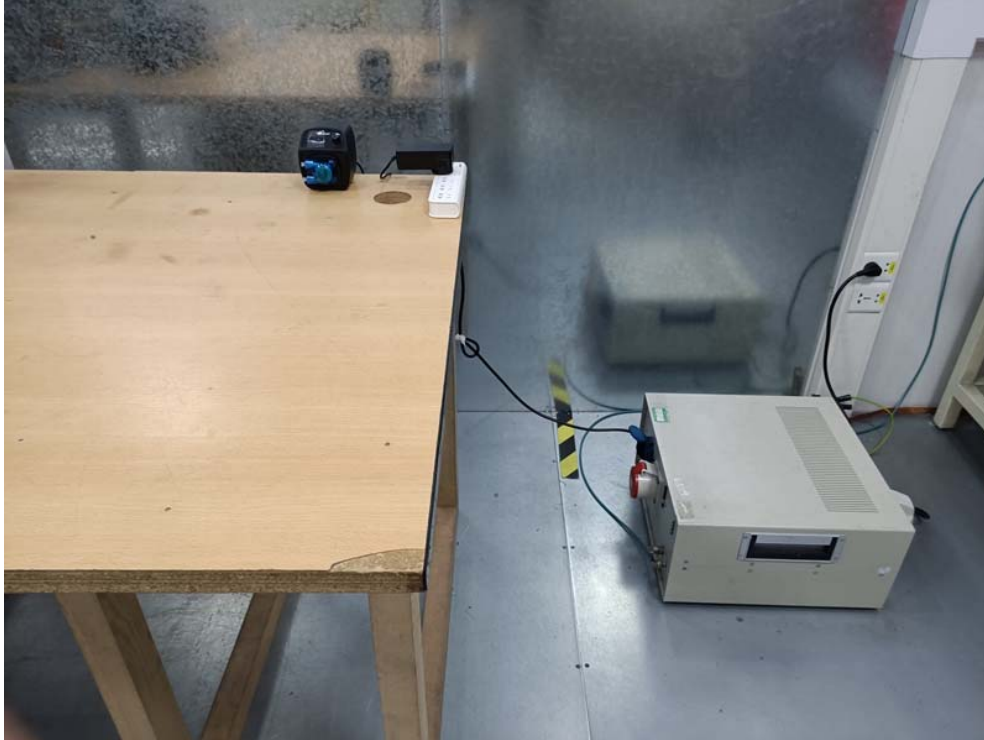


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7.0 Photo of testing

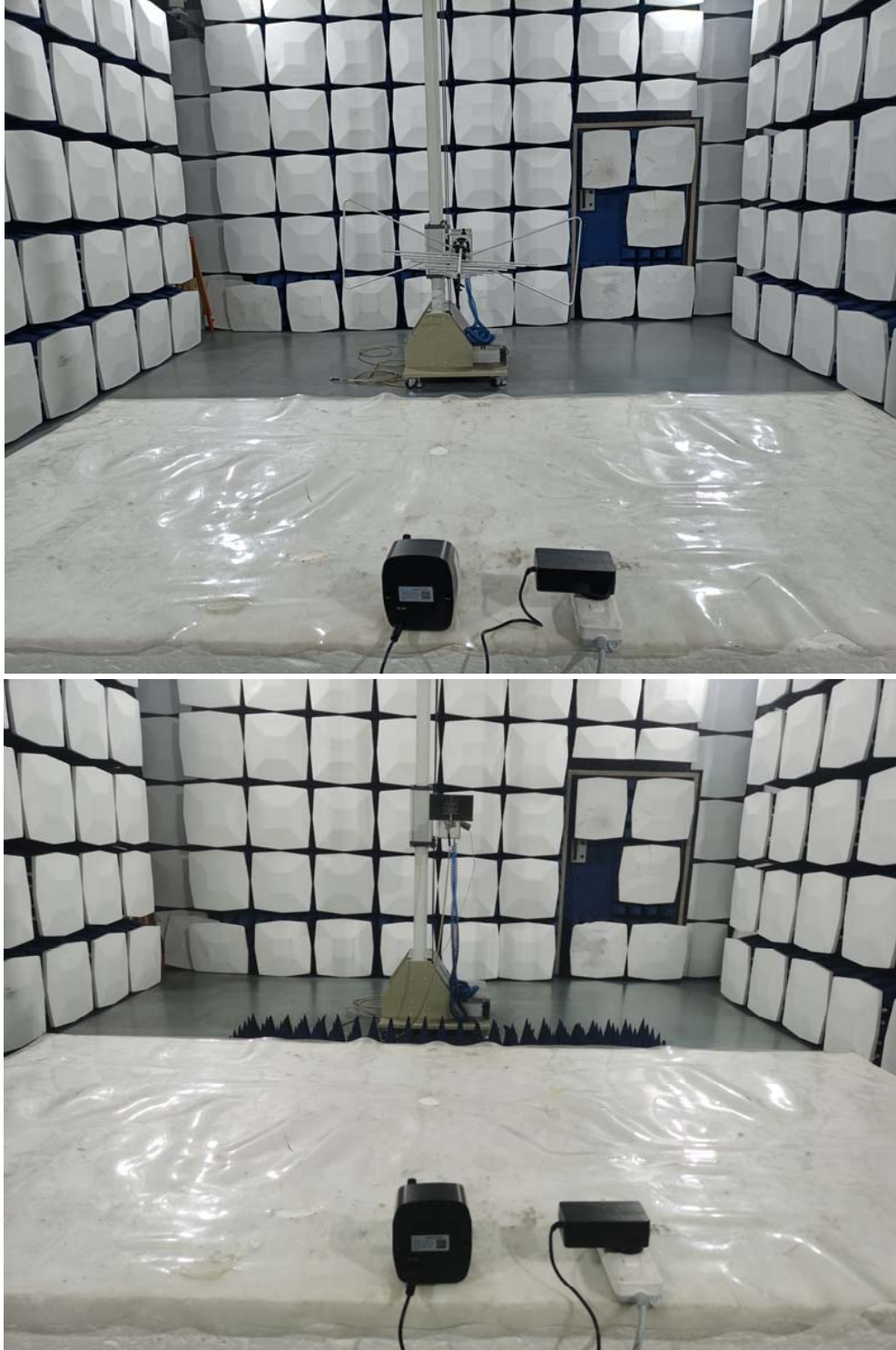
Conducted Emissions



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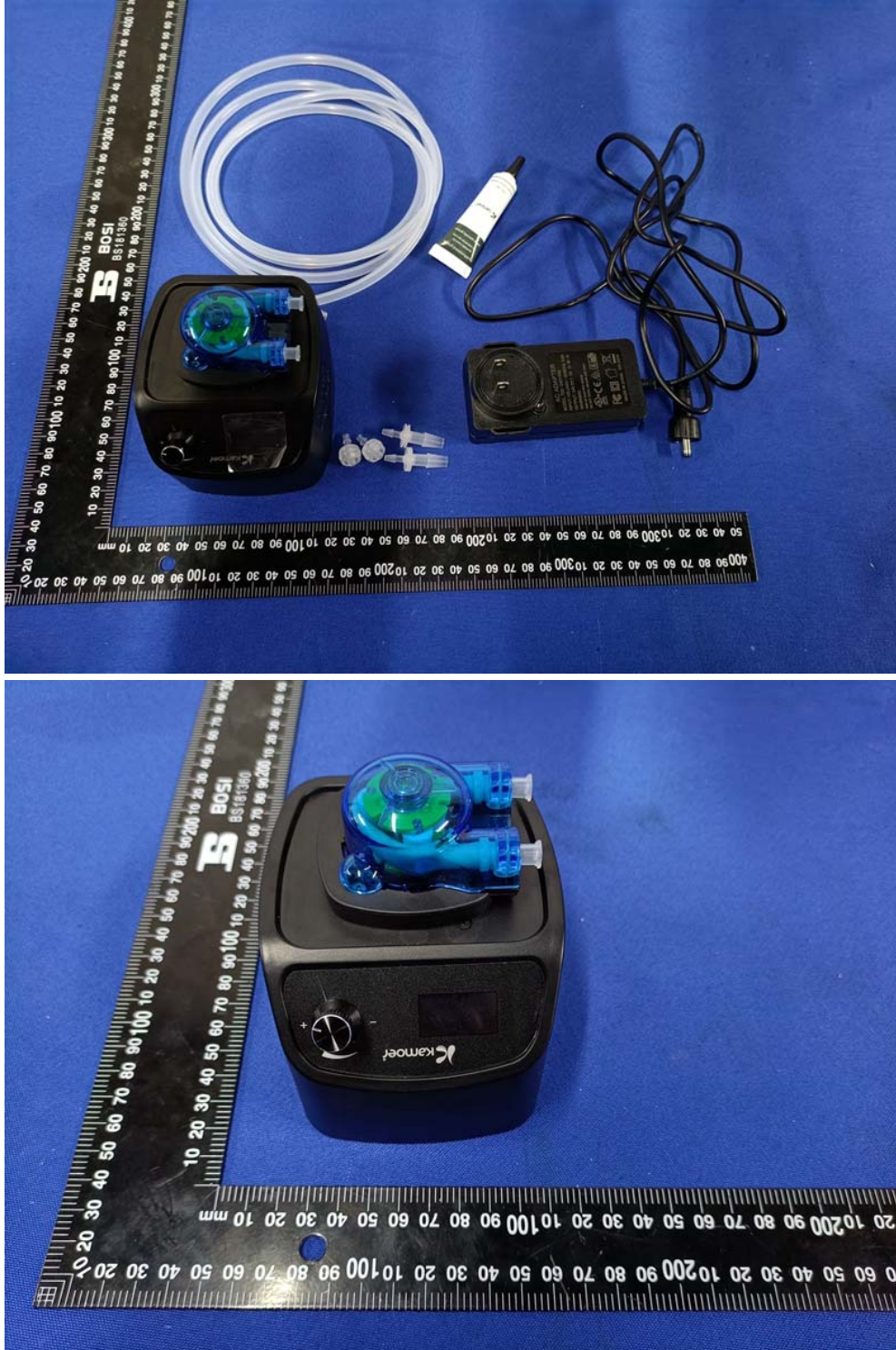
Radiated Emissions



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Photographs – EUT



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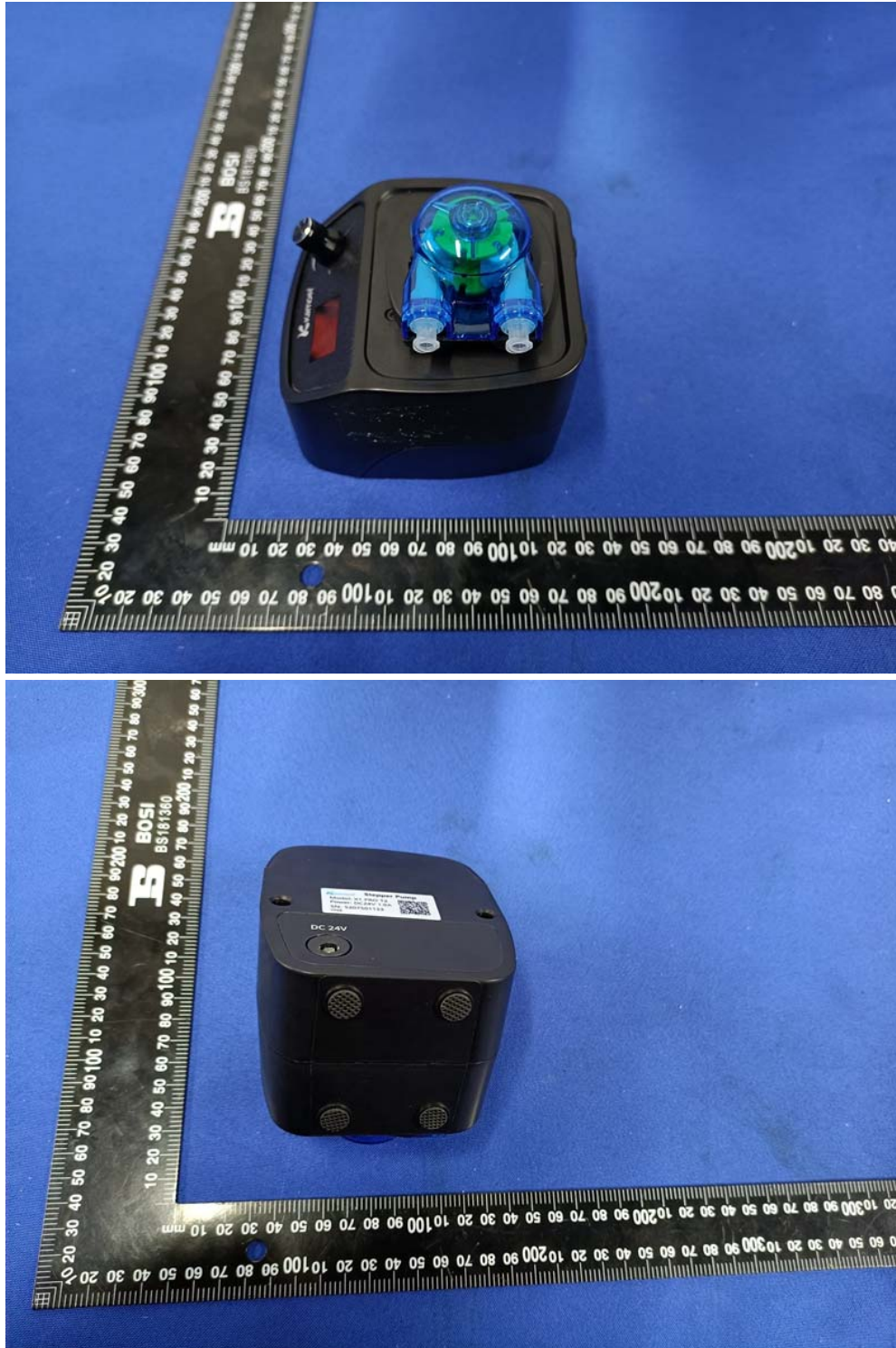
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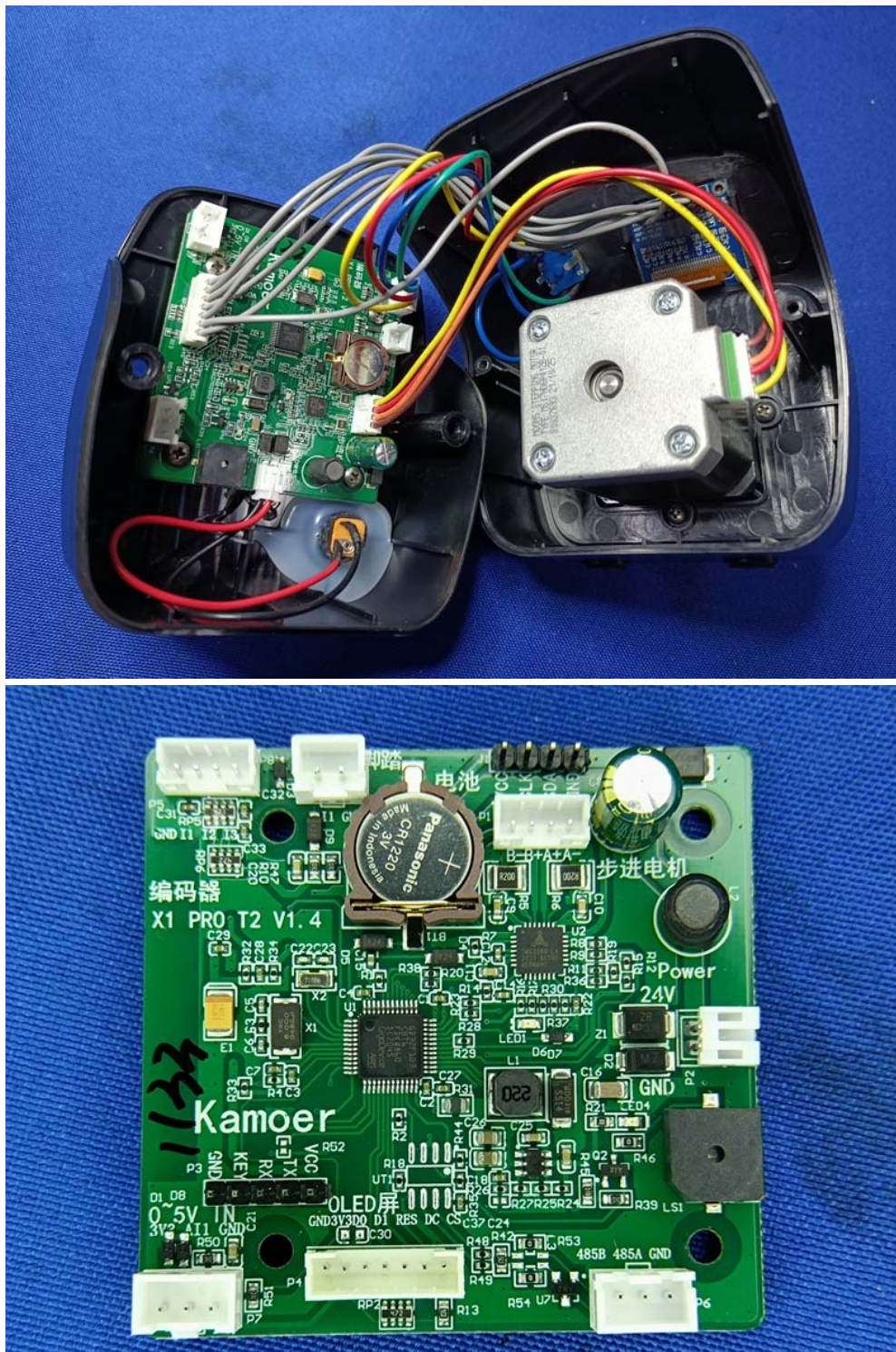
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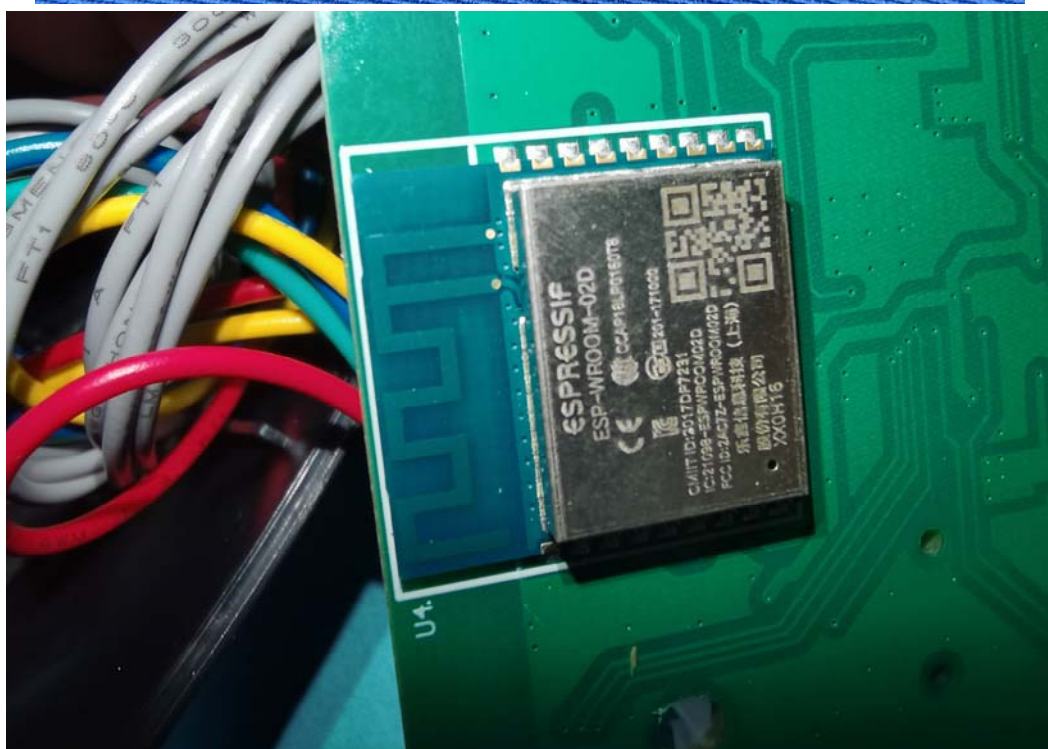
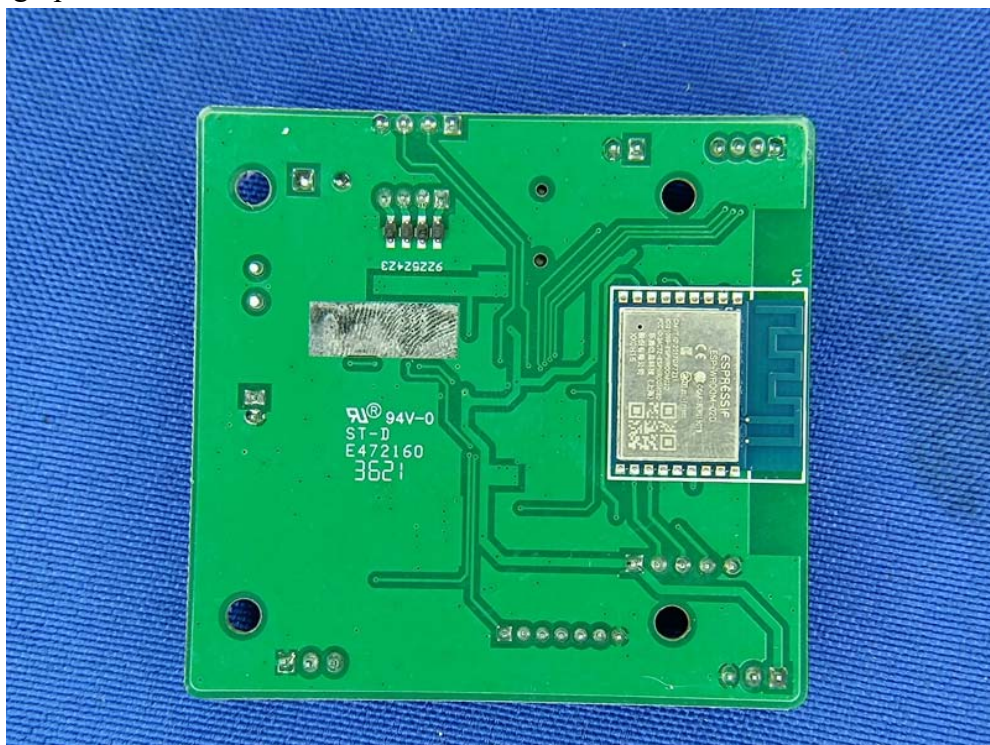


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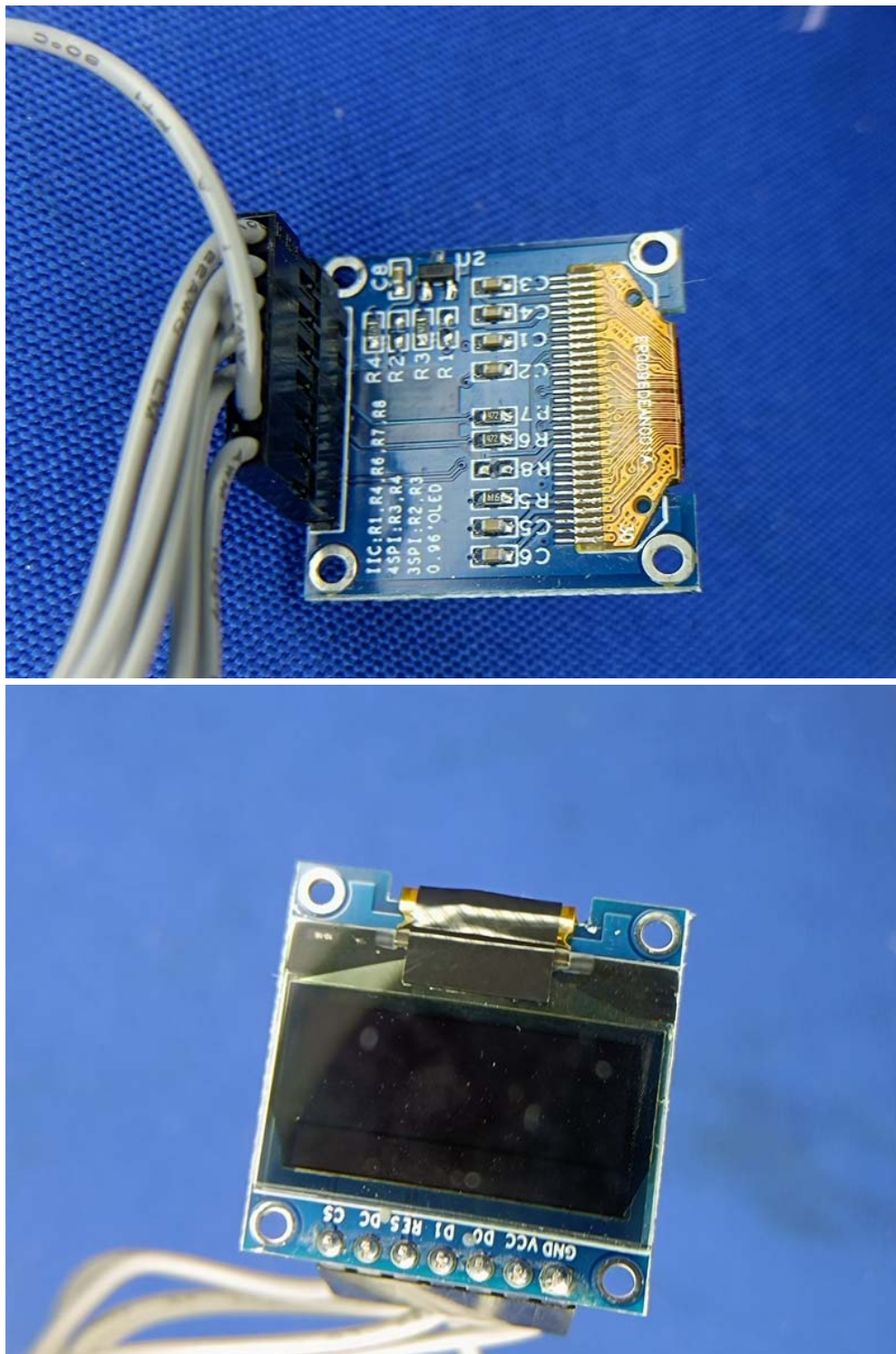
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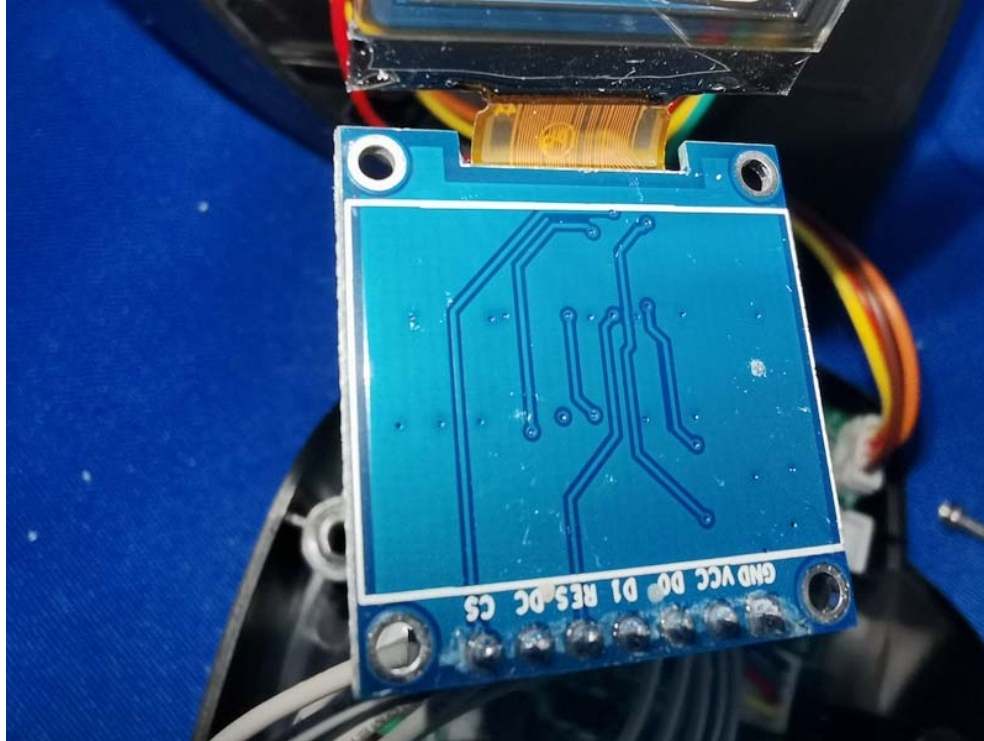
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End of The Report

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