



EMC TEST REPORT

Product Name: Desktop Fan

Trade mark: /

Model No.: H6-V8

S/N: /

Report No.: CTB25022407902E01

Applicant: Foshan Tuboshu Intelligent Technology Co., Ltd

No. 204-2, Bldg. B, Shunde Creative Industry Park, No.41, Fengxiang Road,

Address: Xinqiao Community, Daliang Street, Shunde District, Foshan City, Guangdong Province, China

Manufacturer: Foshan Tuboshu Intelligent Technology Co., Ltd

No. 204-2, Bldg. B, Shunde Creative Industry Park, No.41, Fengxiang Road,

Address: Xinqiao Community, Daliang Street, Shunde District, Foshan City, Guangdong Province, China

Prepared by: Shenzhen CTB Testing Technology Co., Ltd.

Address: 1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China

Sample No.: 25022407902

Date of Receipt: Mar. 04, 2025

Date of Test(s): Mar. 04, 2025 ~ Mar. 05, 2025

Date of Issue: Mar. 07, 2025

Test Standard(s): J55014-1(H27)

Test Result: Pass

In the configuration tested, the EUT complied with the standards specified above.

Compiled by:

Blake Cai

Blake Cai

Reviewed by:

Bin Mei

Bin Mei

Approved by:



Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "★" indicates the testing items were fulfilled by subcontracted lab. "※" indicates the items are not in CNAS accreditation scope.



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1. Description of version

Report No.	Issue Date	Description	Approved
CTB25022407902E01	Mar. 07, 2025	Original	Valid

2. Test summary

Emission		
Test Item	Test Method	Result
Continuous disturbance	J55014-1(H27)	PASS
Discontinuous disturbance		N/A
Disturbance power		N/A
Radiated emission		PASS

Note: N/A is abbreviation for Not Applicable.

3. Measurement uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %

Test Item	Frequency	Expanded Uncertainty (U_{Lab})
No.1 Conducted Emission	150 kHz to 30 MHz	± 3.1 dB
No.2 Conducted Emission	150 kHz to 30 MHz	± 3.2 dB
Disturbance Power	30 MHz to 300 MHz	± 3.3 dB
Radiated Emission	30 MHz to 1000 MHz	± 4.1 dB
Radiated Emission	1000 MHz to 6000 MHz	± 4.8 dB

4. General information

4.1. Description of EUT

Product Name	Desktop Fan
Trademark	/
Model No.	H6-V8
Serial Model No.	/
Model Difference	/
Rated Power	/
Rated Voltage& current	DC 5V 2A from adapter(AC 100V/50Hz) or 3.7V---4000mAh from battery
Highest Clock Frequency	/
Configuration	☒ Table-top ☐ Floor-standing
Adapter Information	/

Note: The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

4.2. Description of Accessory Device

Description	Manufacturer	Model	Specification	Note
Adapter	Xu Yuan	XY-CU01200500 200U01	Input: 100-240V~ 50/60Hz 0.4A Max Output: 5V---2A	☐ Applicant ☒ CTB

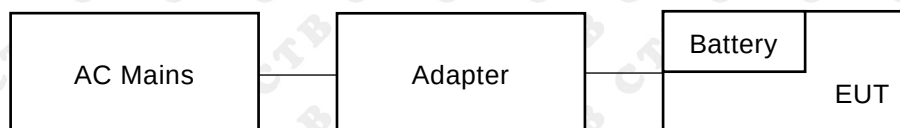
External I/O Cable

Cable Description	Shielded Type	Ferrite Core	Length(m)	Note
USB Cable	☐ Shielded ☒ Non-shielded	☐ Yes ☒ No	0.5	☐ Applicant ☒ CTB

4.3. Test conditions

Temperature: 15-25°C
Relative Humidity: 30-60 %
Atmospheric pressure: 800hPa-1060hPa

4.4. Block diagram of EUT configuration



4.5. Operating condition of EUT

The test system was pre-tested based on the consideration of all possible combinations of EUT operation modes according to test plan. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively. All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, (*)the worst data were recorded and reported.

Pretest Test Mode	Description	Test Voltage
Mode 1*	Charging+Working	AC 100V/50Hz

Conducted emission test		
Final Test Mode	Description	Test Voltage
Mode 1*	Charging+Working	AC 100V/50Hz

Disturbance power test		
Final Test Mode	Description	Test Voltage
Mode 1*	Charging+Working	AC 100V/50Hz

Radiated emission test		
Final Test Mode	Description	Test Voltage
Mode 1*	Charging+Working	AC 100V/50Hz

5. List of test and measurement instruments

No.1 Continuous disturbance						
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated until
1	843 Shield Room	C/ R/ T	843	/	/	2027/6/21
2	LISN	ROHDE&SCHWARZ	ESH3-Z5	100318	/	2025/6/30
3	Pulse limiter	ROHDE&SCHWARZ	ESH3-Z2	0357.8810.54-1 02700-NB	/	2025/6/28
4	EMI TEST RECEIVER	R&S	ESCI	100428	V4.42.SP3	2025/6/30
5	Coaxial cable	Agilent	UCE500-SMNM-1. 5M	/	/	2025/6/30
6	ISN	Schwarzbeck	NTFM8158	183	/	2025/6/30
7	ISN	Schwarzbeck	CAT5 8158	473	/	2025/6/23
8	Voltage Probe	Schwarzbeck	TK 9420	01189	/	2025/10/25
9	EMI test software	Frad	EZ-EMC	Ver/ EMC-con3A1/1	/	/
10	Current Probe	FCC	F-52B	199453	/	2025/5/27

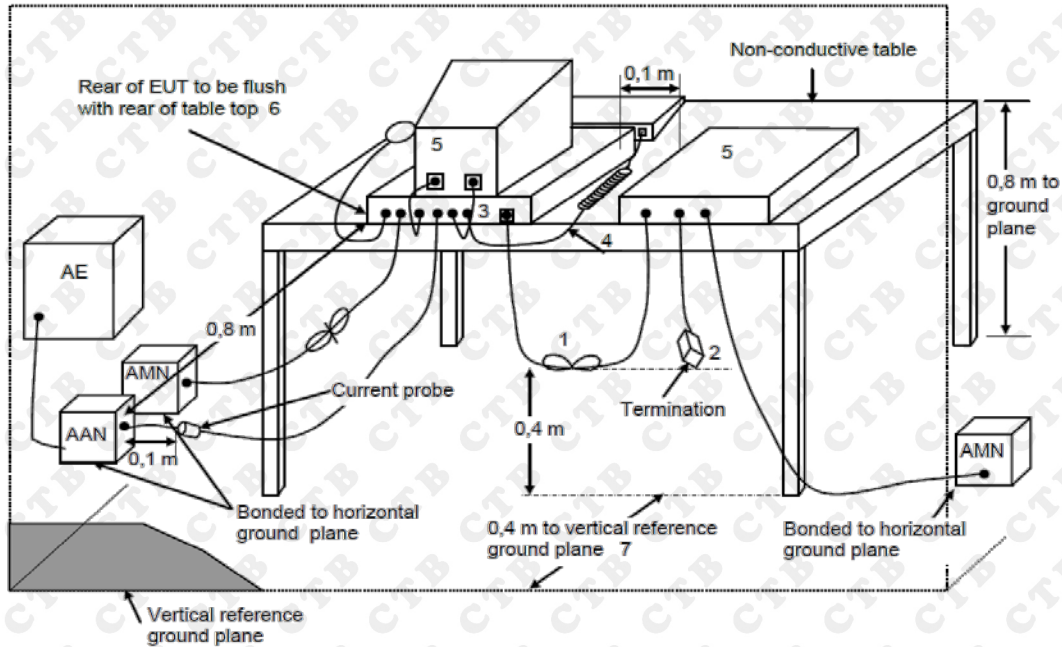
Radiated emission(No.1 Chamber)						
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated until
1	966 Chamber	C/ R/ T	966	/	/	2027/6/21
2	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	/	2025/7/06
3	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2025/6/29
4	Preamplifier	Agilent	8449B	3008A01838	/	2025/6/30
5	Amplifier	HP	8447E	2945A02747	/	2025/6/28
6	loop antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/29
7	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESPI	100362	RF_ATTEN_7 (104489/003)	2025/6/28
8	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/6/28
9	26.5G cable	ETS	RFC-SNS-100-N MS-80	/	/	2025/6/28
10	26.5G cable	ETS	RFC-SN-100-NM S-20	/	/	2025/6/28
11	26.5G cable	ETS	RFC-SNS-100-S MS-20	/	/	2025/6/28
12	26.5G cable	ETS	RFC-NNS-100-N MS-300	/	/	2025/6/28
13	EMI test software	Frad	EZ-EMC	Ver/ FA-03A2 RE	/	/

6. Emission

6.1. Continuous disturbance

6.1.1. Block diagram of test setup

For table-top equipment



6.1.2. Limit

General limits						
Frequency range	Mains ports		Associated ports			
	Disturbance voltage		Disturbance voltage		Disturbance current	
MHz	Quasi-peak dB μ V	Average dB μ V	Quasi-peak dB μ V	Average dB μ V	Quasi-peak dB μ A	Average dB μ A
0,15 to 0,50	Decreasing linearly with the logarithm of the frequency from:		80	70	Decreasing linearly with the logarithm of the frequency from:	
	66 to 56	59 to 46			40 to 30	30 to 20
0,50 to 5	56	46	74	64	30	20
5 to 30	60	50	74	64		
The lower limit applies at the transition frequencies. The test report shall state which test method was used and which limits were applied.						

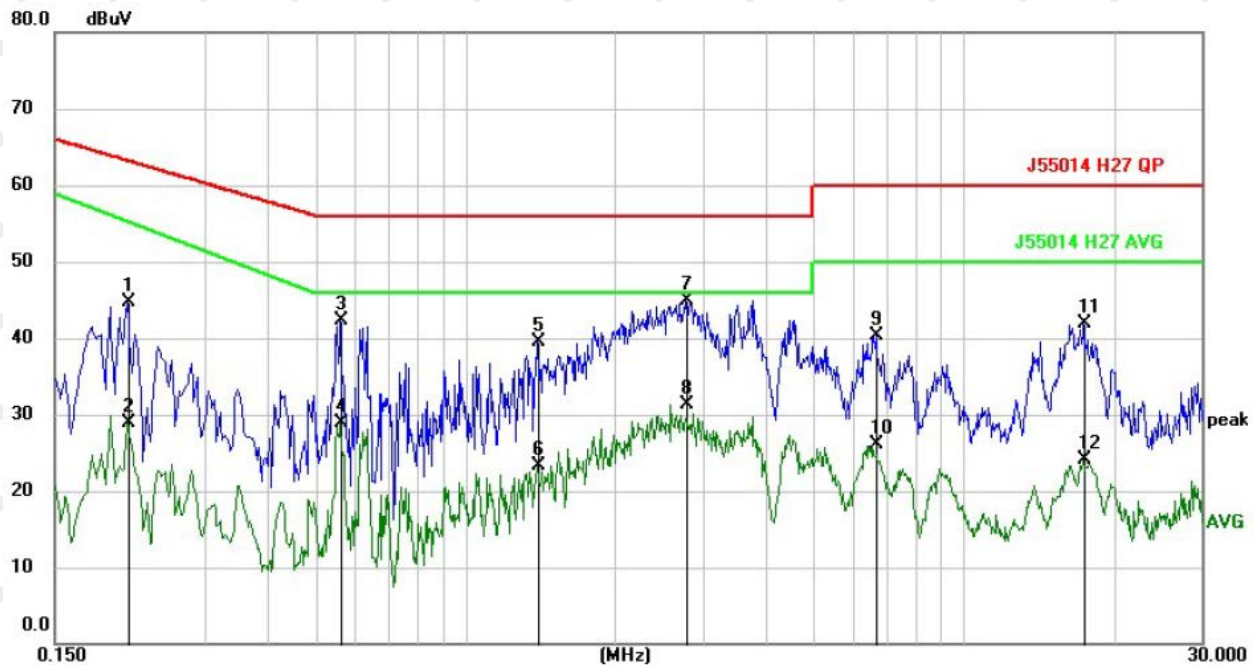
Limits for mains port of tools						
Frequency range	$P \leq 700 \text{ W}$		$700 \text{ W} < P \leq 1\,000 \text{ W}$		$P > 1\,000 \text{ W}$	
MHz	Quasi-peak dB μ V	Average dB μ V	Quasi-peak dB μ V	Average dB μ V	Quasi-peak dB μ V	Average dB μ V
	Decreasing linearly with the logarithm of the frequency from:					
0,15 to 0,35	66 to 59	59 to 49	70 to 63	63 to 53	76 to 69	69 to 59
0,35 to 5	59	49	63	53	69	59
5 to 30	64	54	68	58	74	64
The lower limit applies at the transition frequencies. P = rated power of the motor only.						

6.1.3. Test procedure

1. The AMN placed 0,8m from the boundary of the unit under test and bonded to a round reference plane. This distance was between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment were at least 0,8 m from the AMN. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.
2. Both sides of AC line are checked to find out the maximum conducted emission according to the CISPR 14-1 regulations during conducted emission test. And the voltage probe had been used for the load terminals test according to the CISPR 14-1 standard.
3. The bandwidth of the test receiver (R&S ESCS30) is set at 9 kHz in 150 kHz~30 MHz.
4. The frequency range from 150 kHz to 30MHz is checked.

6.1.4. Test results

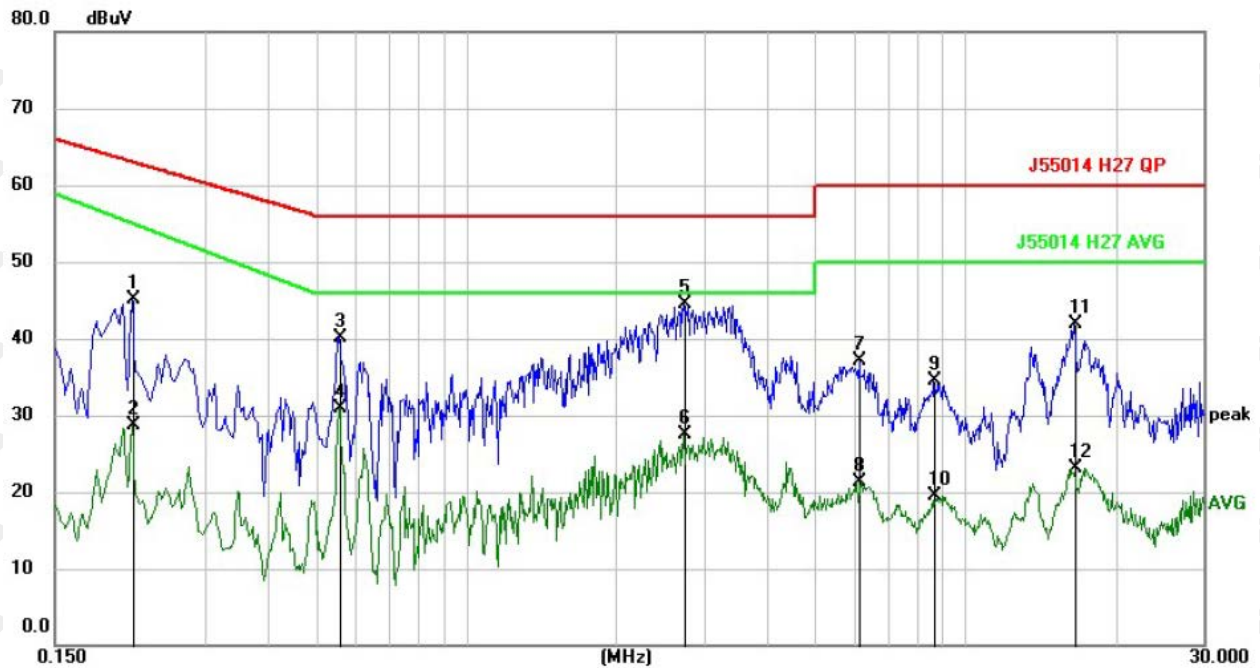
Temperature:	24°C	Relative Humidity:	54 %
Pressure:	101kPa	Phase :	Line
Test Voltage :	AC 100V/50Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2100	33.92	10.70	44.62	63.21	-18.59	QP
2		0.2100	18.13	10.70	28.83	55.37	-26.54	AVG
3		0.5620	31.74	10.57	42.31	56.00	-13.69	QP
4		0.5620	18.32	10.57	28.89	46.00	-17.11	AVG
5		1.3980	28.35	11.20	39.55	56.00	-16.45	QP
6		1.3980	12.06	11.20	23.26	46.00	-22.74	AVG
7	*	2.7740	33.13	11.75	44.88	56.00	-11.12	QP
8		2.7740	19.59	11.75	31.34	46.00	-14.66	AVG
9		6.6780	27.53	12.83	40.36	60.00	-19.64	QP
10		6.6780	13.33	12.83	26.16	50.00	-23.84	AVG
11		17.3860	28.42	13.46	41.88	60.00	-18.12	QP
12		17.3860	10.74	13.46	24.20	50.00	-25.80	AVG

Note: Result=Reading + Factor
Over Limit=Result – Limit

Temperature:	24°C	Relative Humidity:	54 %
Pressure:	101kPa	Phase :	Neutral
Test Voltage :	AC 100V/50Hz	Test Mode:	Mode 1



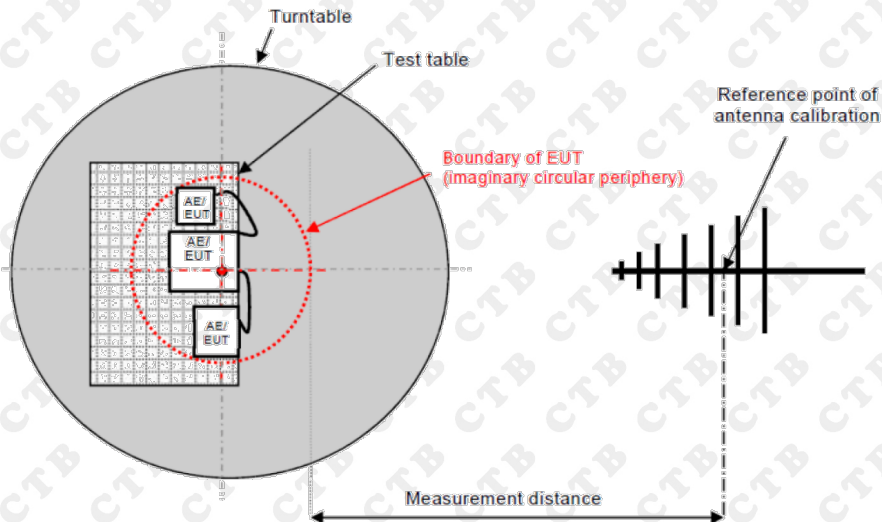
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2140	34.39	10.70	45.09	63.05	-17.96	QP
2		0.2140	17.96	10.70	28.66	55.16	-26.50	AVG
3		0.5580	29.62	10.56	40.18	56.00	-15.82	QP
4		0.5580	20.41	10.56	30.97	46.00	-15.03	AVG
5	*	2.7340	32.86	11.74	44.60	56.00	-11.40	QP
6		2.7340	15.71	11.74	27.45	46.00	-18.55	AVG
7		6.1420	24.49	12.64	37.13	60.00	-22.87	QP
8		6.1420	8.70	12.64	21.34	50.00	-28.66	AVG
9		8.6500	21.37	13.10	34.47	60.00	-25.53	QP
10		8.6500	6.31	13.10	19.41	50.00	-30.59	AVG
11		16.5459	28.51	13.42	41.93	60.00	-18.07	QP
12		16.5459	9.70	13.42	23.12	50.00	-26.88	AVG

Note: Result=Reading + Factor
Over Limit=Result - Limit

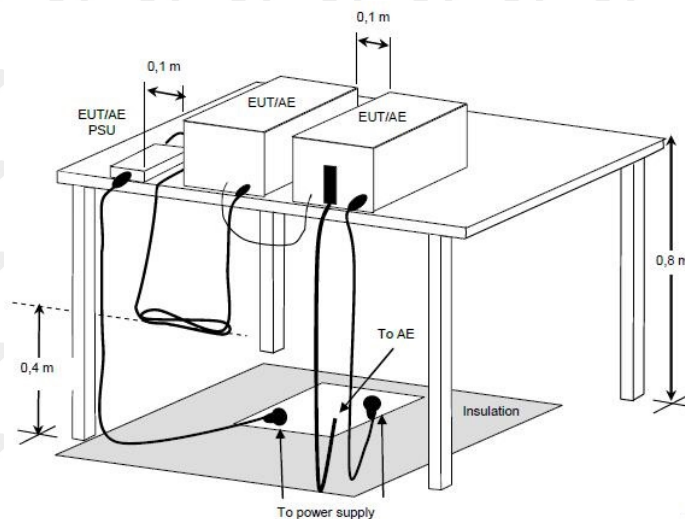
6.2. Radiated emission

6.2.1. Block diagram of test setup

Measurement distance



For table-top equipment



6.2.2. Limit

Frequency range MHz	Measurement			Limits dB(μV/m)
	Facility	Distance m	Detector type / bandwidth	
30 to 230	SAC	3	Quasi Peak / 120 kHz	40
230 to 1 000				47

6.2.3. Test procedure

1. The EUT is placed on a turn table which is 0,8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The Boundary of EUT (imaginary circular periphery) is set 3 meters away from the receiving antenna (Reference point of antenna calibration) which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antennas (calibrated by dipole antenna) are used as a receiving antenna.
2. Both horizontal and vertical polarizations of the antenna are set on test.
3. The bandwidth setting on the test receiver (R&S ESPI) reference 5.3.2.
4. The EUT is tested in Semi-Anechoic Chamber.
5. The Test results are listed in Section 5.3.4.

6.2.4. Test results

Temperature:	24°C	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	AC 100V/50Hz	Test Mode:	Mode 1



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		109.7959	30.71	-7.21	23.50	40.00	-16.50	QP
2		160.0646	30.84	-0.84	30.00	40.00	-10.00	QP
3	*	199.2855	40.89	-4.80	36.09	40.00	-3.91	QP
4		308.9125	32.72	-2.71	30.01	47.00	-16.99	QP
5		391.4082	27.54	-0.91	26.63	47.00	-20.37	QP
6		869.1300	28.10	7.99	36.09	47.00	-10.91	QP

Note: Result=Reading + Factor
Over Limit=Result - Limit

Temperature:	24°C	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	AC 100V/50Hz	Test Mode:	Mode 1

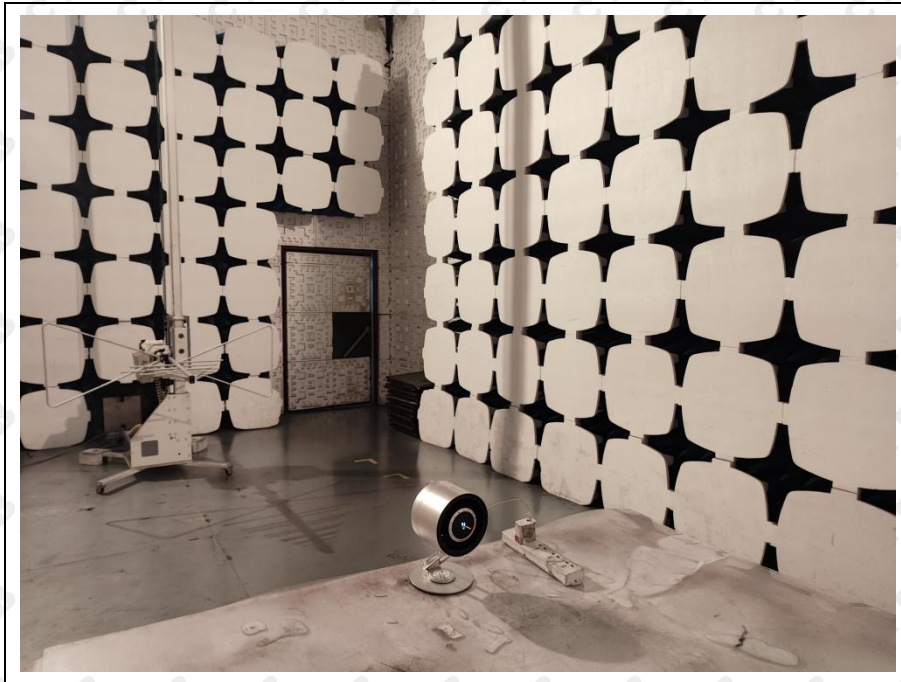


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		46.5030	33.84	-6.72	27.12	40.00	-12.88	QP
2		97.9700	33.98	-9.70	24.28	40.00	-15.72	QP
3		158.6673	31.95	-1.10	30.85	40.00	-9.15	QP
4	*	197.5457	40.32	-4.77	35.55	40.00	-4.45	QP
5		500.3009	27.54	2.14	29.68	47.00	-17.32	QP
6		869.1300	30.01	7.99	38.00	47.00	-9.00	QP

Note: Result=Reading + Factor
Over Limit=Result - Limit

7. Photographs of test setup

Radiated Emission

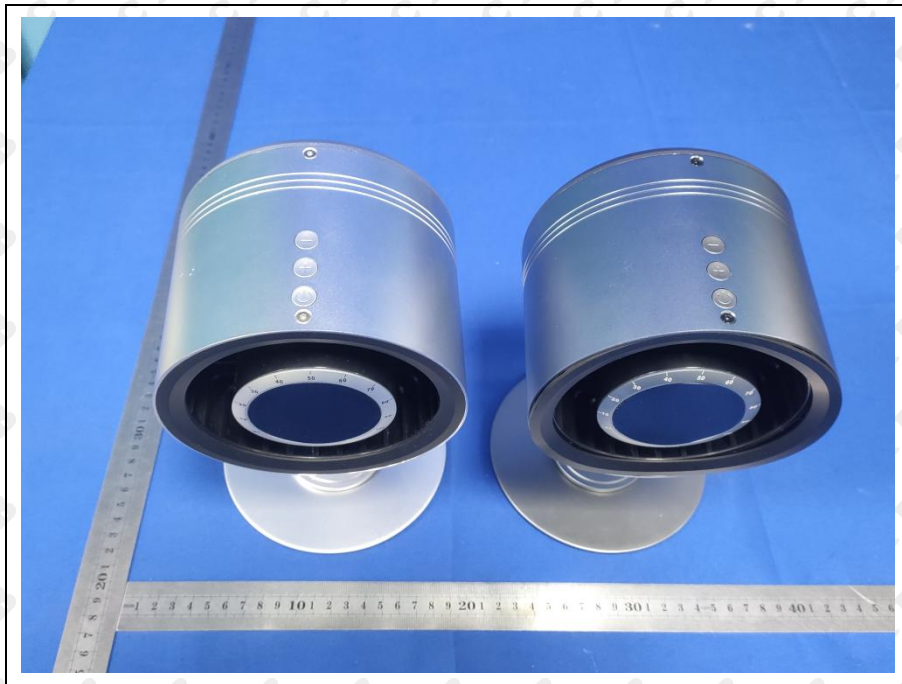


Conducted disturbances

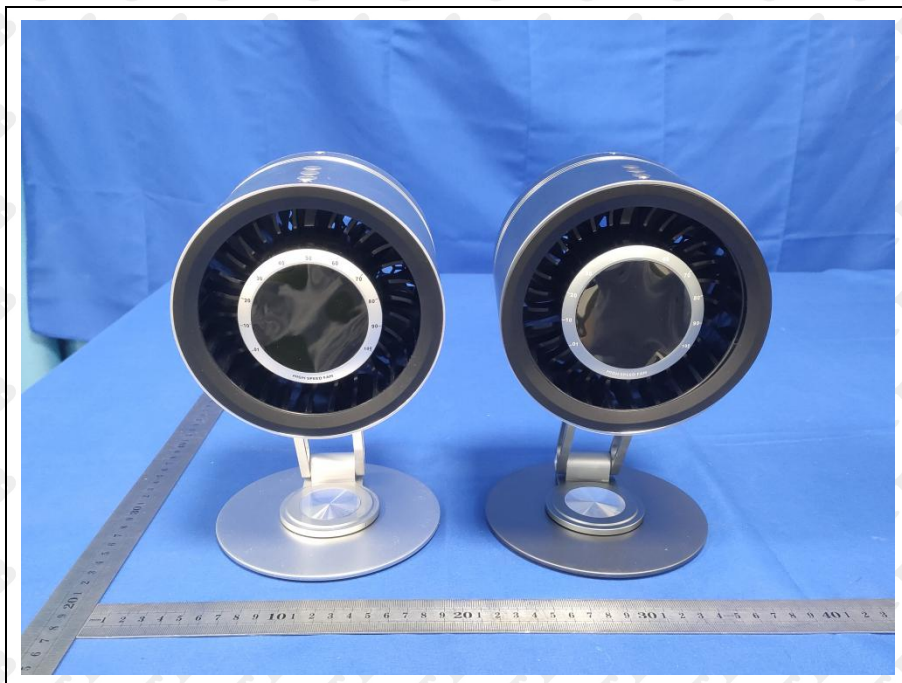


8. Photographs of EUT

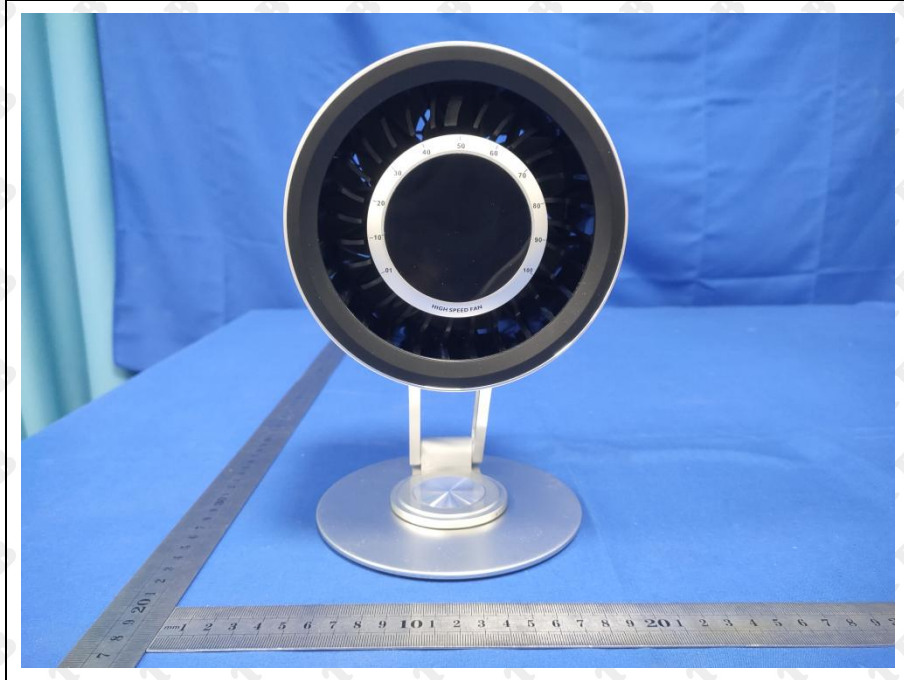
EUT photo 1



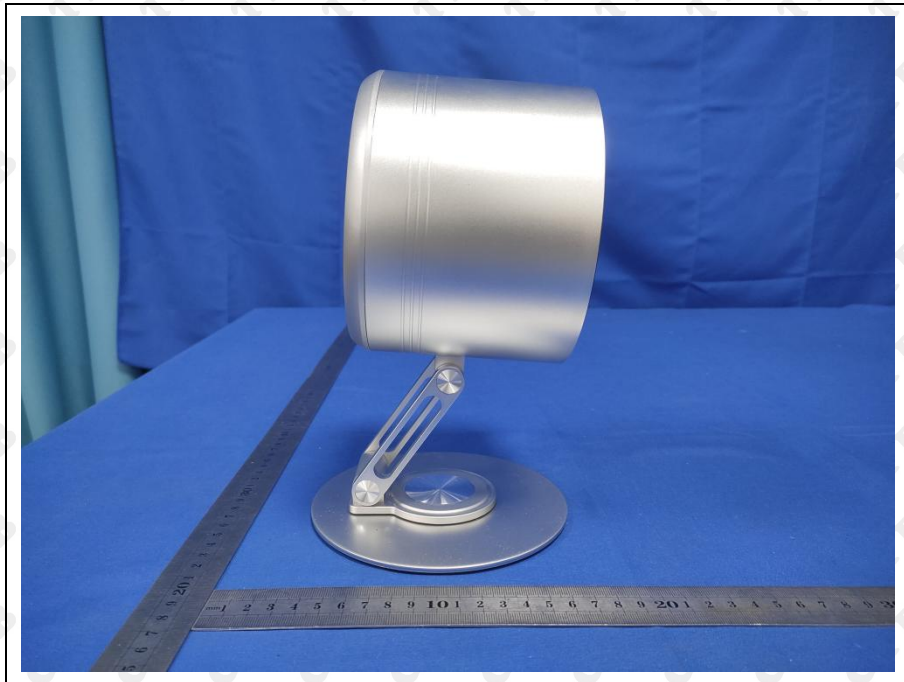
EUT photo 2



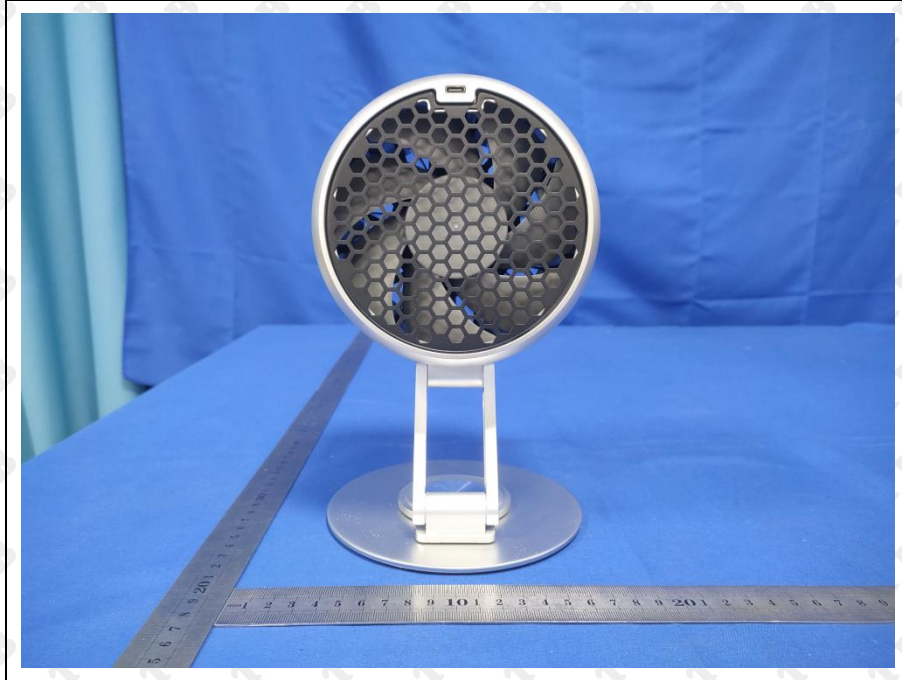
EUT photo 3



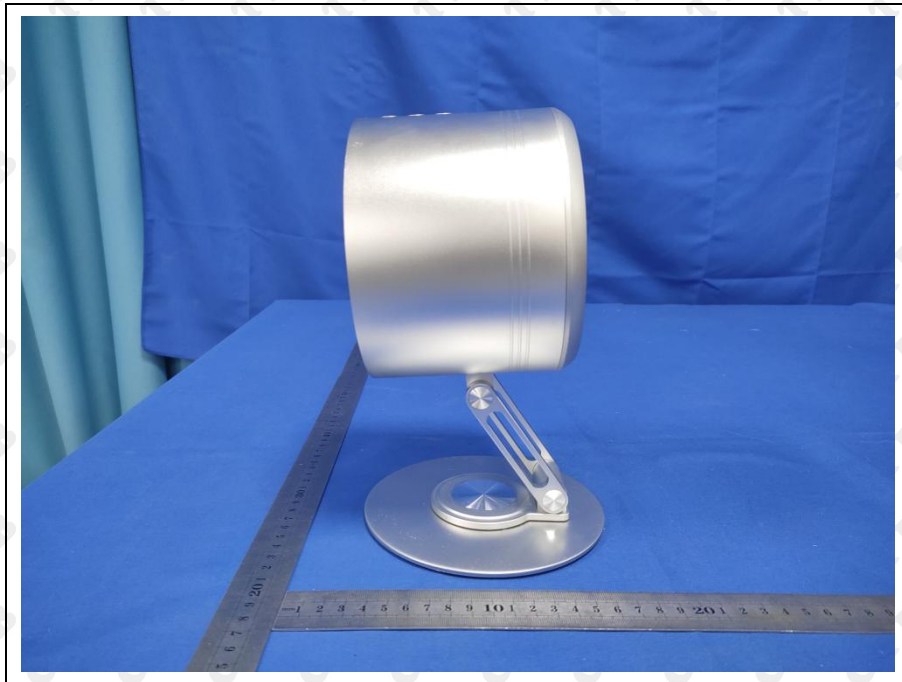
EUT photo 4



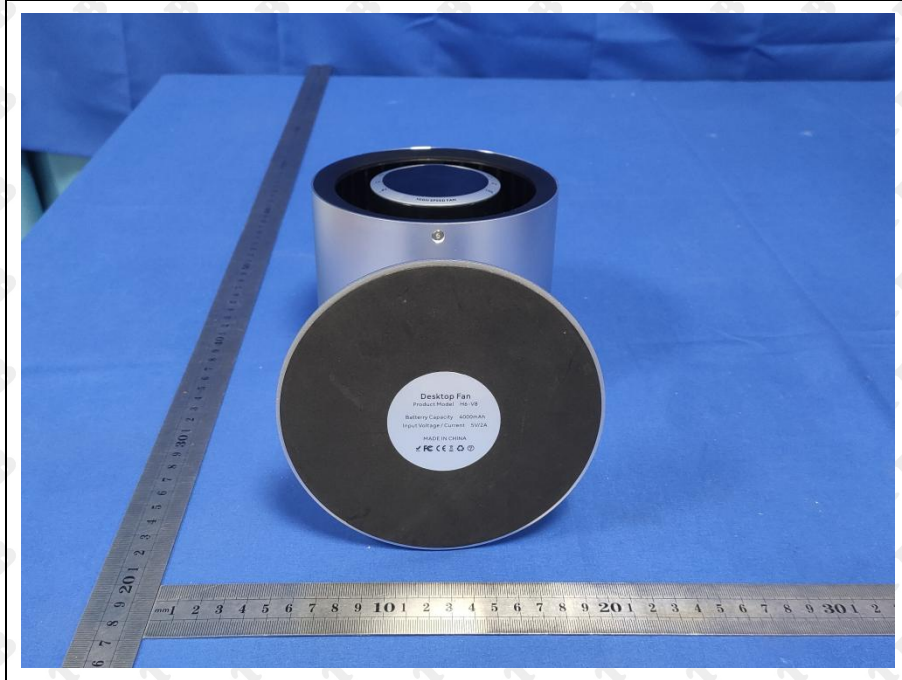
EUT photo 5



EUT photo 6



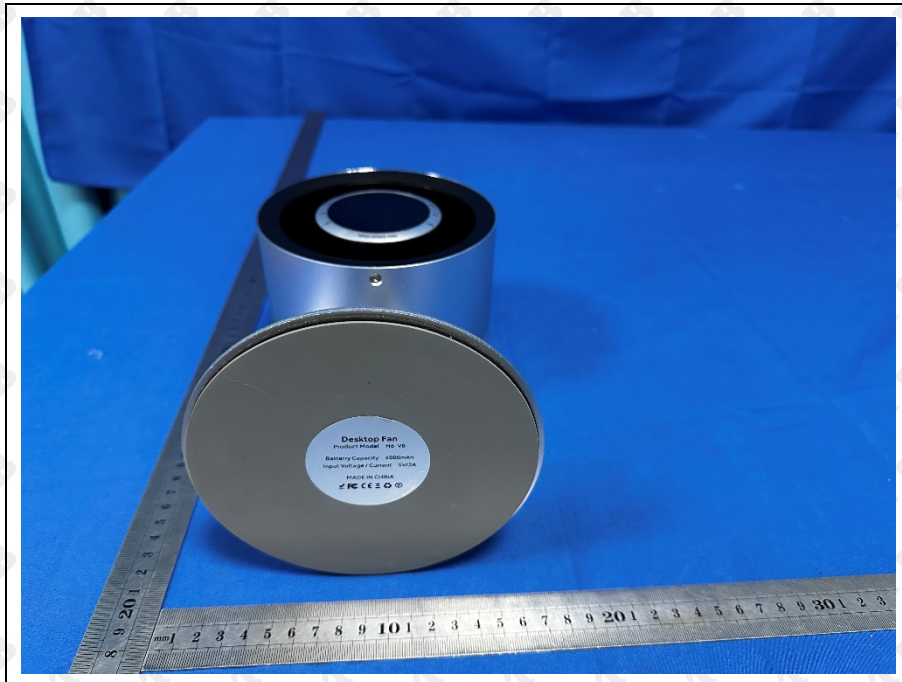
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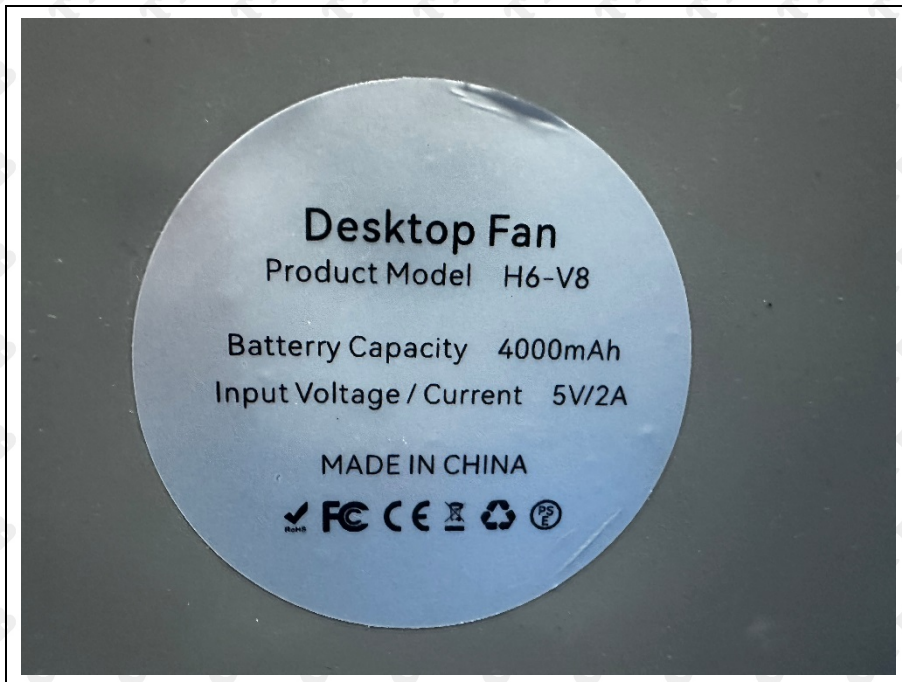
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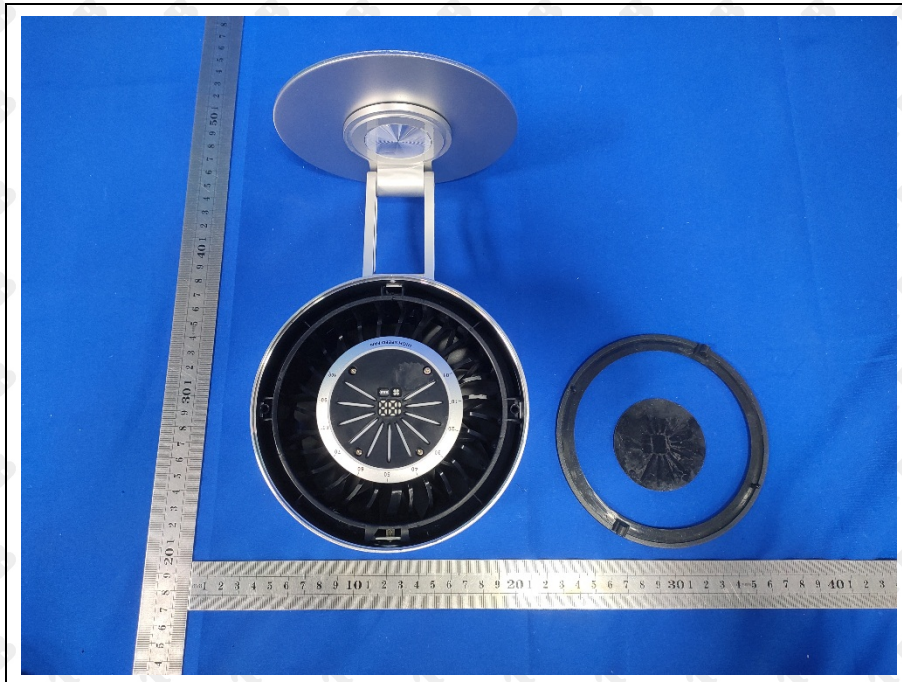
EUT photo 9



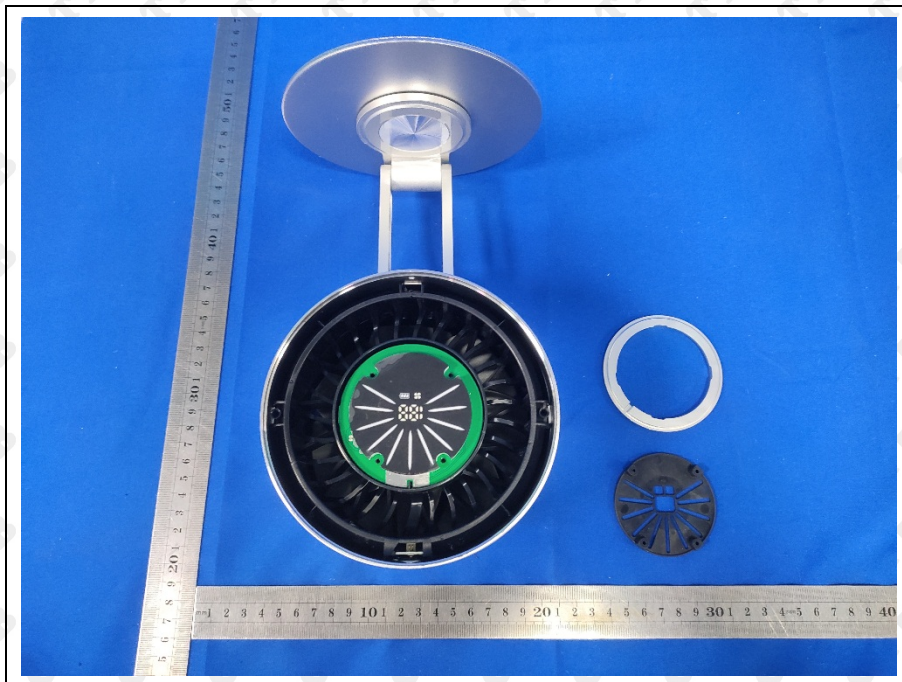
EUT photo 10



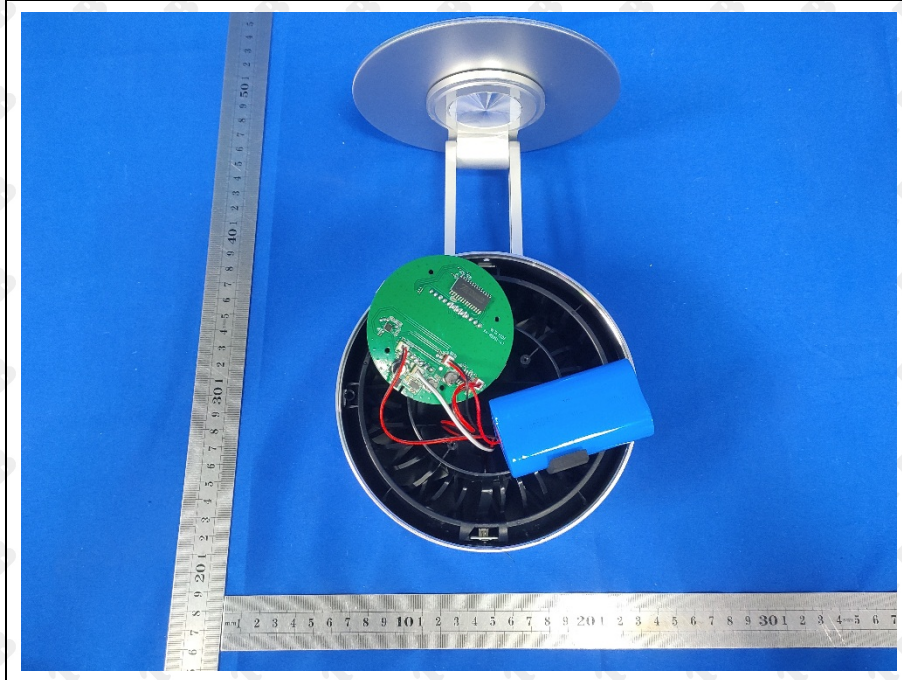
EUT photo 11



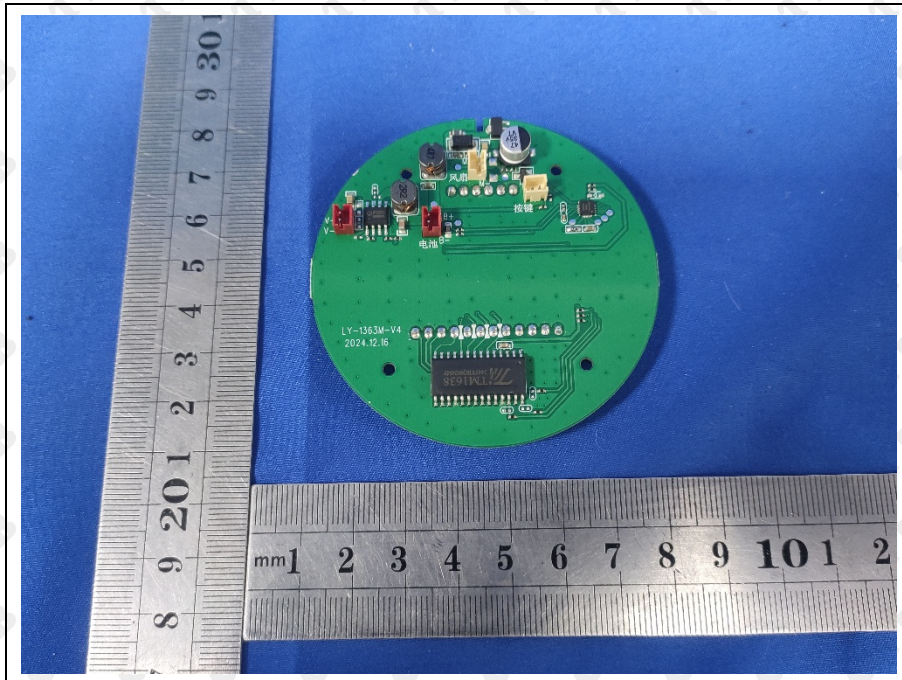
EUT photo 12



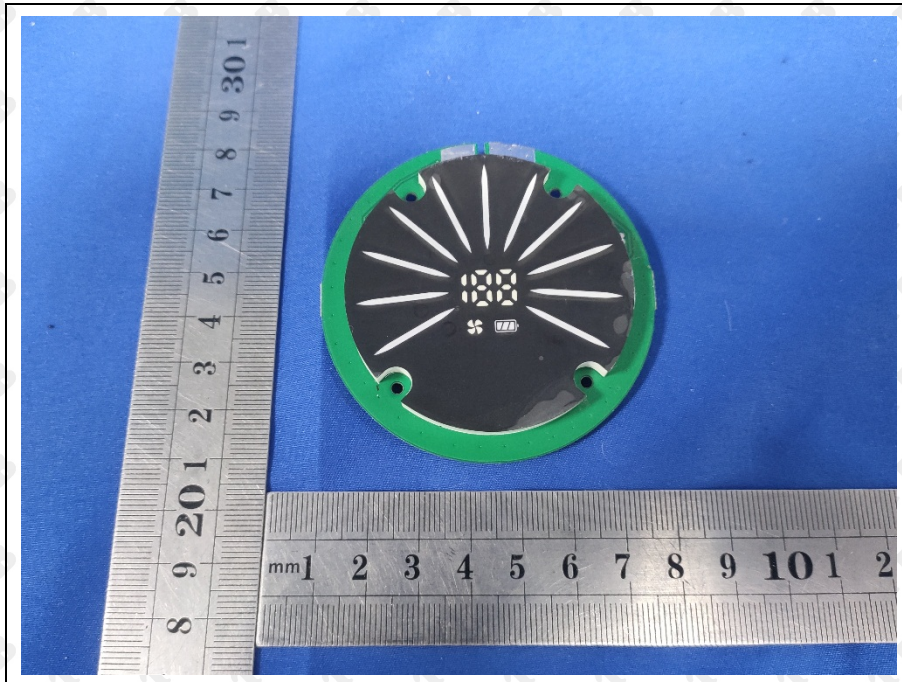
EUT photo 13



EUT photo 14



EUT photo 15



EUT photo 16



End of report