

RF TEST REPORT

For

Micro ENE Inc.

Product Name: Light Therapy Lamp

Test Model(s): M156138

Report Reference No. : POCE231207024RL001

FCC ID : 2BD4T-M156138

Applicant's Name : Micro ENE Inc.

Address : 12030 E LAKE CIRCLE GREENWOOD VILLAGE, CO 80111, USA

Testing Laboratory : Shenzhen POCE Testing Technology Co., Ltd.

Address : 101-102, H5 Building & floor 1, Building H, Hongfa Science and Technology Park, Tangtou, Shiyan, Bao'An District, Shenzhen, China

Test Specification Standard : FCC CFR Title 47 Part 15 Subpart C

Date of Receipt : December 7, 2023

Date of Test : December 7, 2023 to December 13, 2023

Data of Issue : December 14, 2023

Result : Pass

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Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	POCE231207024RL001	December 14, 2023

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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Supervised by:

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Approved by:

*Tom Chen*Tom Chen / Manager

CONTENTS

1	TEST SUMMARY	4
1.1	TEST STANDARDS	4
1.2	SUMMARY OF TEST RESULT	4
2	GENERAL INFORMATION	5
2.1	CLIENT INFORMATION	5
2.2	DESCRIPTION OF DEVICE (EUT)	5
2.3	DESCRIPTION OF TEST MODES	5
2.4	DESCRIPTION OF SUPPORT UNITS	6
2.5	EQUIPMENTS USED DURING THE TEST	6
2.6	STATEMENT OF THE MEASUREMENT UNCERTAINTY	7
2.7	IDENTIFICATION OF TESTING LABORATORY	7
2.8	ANNOUNCEMENT	8
3	EVALUATION RESULTS (EVALUATION)	9
3.1	ANTENNA REQUIREMENT	9
3.1.1	Conclusion:	9
4	RADIO SPECTRUM MATTER TEST RESULTS (RF)	10
4.1	CONDUCTED EMISSION AT AC POWER LINE	10
4.1.1	E.U.T. Operation:	10
4.1.2	Test Setup Diagram:	10
4.1.3	Test Data:	11
4.2	20dB OCCUPIED BANDWIDTH	13
4.2.1	E.U.T. Operation:	13
4.2.2	Test Setup Diagram:	14
4.2.3	Test Data:	14
4.3	EMISSIONS IN FREQUENCY BANDS (BELOW 30MHz)	15
4.3.1	E.U.T. Operation:	15
4.3.2	Test Setup Diagram:	15
4.3.3	Test Data:	16
4.4	EMISSIONS IN FREQUENCY BANDS (30MHz - 1GHz)	17
4.4.1	E.U.T. Operation:	17
4.4.2	Test Setup Diagram:	17
4.4.3	Test Data:	18
5	TEST SETUP PHOTOS	19
6	PHOTOS OF THE EUT	21

1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.209: Radiated emission limits; general requirements

1.2 Summary of Test Result

Item	Method	Requirement	Result
Antenna requirement	/	47 CFR Part 15.203	Pass
Conducted Emission at AC power line	ANSI C63.10-2013 section 6.2	47 CFR Part 15.207(a)	Pass
20dB Occupied Bandwidth	ANSI C63.10-2013, section 6.9.2	47 CFR Part 15.215(c)	Pass
Emissions in frequency bands (below 30MHz)	ANSI C63.10-2013 section 6.4	47 CFR Part 15.209	Pass
Emissions in frequency bands (30MHz - 1GHz)	ANSI C63.10-2013 section 6.5	47 CFR Part 15.209	Pass

Note: 1.N/A -this device(EUT) is not applicable to this testing item

2. RF-conducted test results including cable loss.

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Micro ENE Inc.
Address : 12030 E LAKE CIRCLE GREENWOOD VILLAGE , CO 80111, USA

Manufacturer : GUANGDONG SHONE LIGHTING CO., LTD
Address : 11 Heyun Rd., Jianggao Town, Baiyun District, Guangzhou, Guangdong, China

2.2 Description of Device (EUT)

Product Name:	Light Therapy Lamp
Sample number:	Q231207004-1
Model/Type reference:	M156138
Trade Mark:	N/A
Product Description:	Light Therapy Lamp
Power Supply:	INPUT: DC12V - 1A Wireless OUTPUT: 10W Max
Operation frequency:	147KHz
Number of Channels:	1
Modulation Type:	MSK
Antenna Type:	Inductive loop coil Antenna
Antenna Gain:	/
Hardware Version:	V02
Software Version:	V1.0

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (KHz)
Channel 1	147.0KHz

2.3 Description of Test Modes

No	Title	Description
TM1	Full Load	Keep the EUT in wireless charging mode
TM2	Half Load	Keep the EUT in wireless charging mode
TM3	No Load	Keep the EUT in wireless charging mode
Title		Description
TM1/ TM2/ TM3		Keep the EUT works in continuously wireless charging mode.
		<input type="checkbox"/> Special software is used.
		<input type="checkbox"/> Through engineering command into the engineering mode. engineering command: *##3646633##*
		<input checked="" type="checkbox"/> Other method: Wireless Charging Load
		Special software:

2.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Description	Manufacturer	Model No.	Remark	Certification
1	POWER ADAPTER	/	RSF-DY098-1202000US	Provide by client	SDOC
2	Wireless Charging Load Module	HANWEI	HW-T0201-LOAD-V1	Provide by Lab (Wireless Input Power:5W/7.5W/10W/15W)	SDOC

2.5 Equipments Used During The Test

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal. Due Date
Shielding room	CY	8*4*3	20160102	2023/1/26	2025/1/25
Pulse Limiter	Schwarzbeck	VTSD 9561	561-G071	2023/2/27	2024/2/26
Cable	Schwarzbeck	/	/	2023/2/27	2024/2/26
Test Receiver	Rohde & Schwarz	ESPI	1164.6607K03-102109-MH	2023/6/13	2024/6/12
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2022/12/29	2023/12/28
L.I.S.N	Schwarzbeck	NSLK 8126	NSLK 8126	2023/8/8	2024/8/7
50ΩCoaxial Switch	Anritsu	MP59B	M20531	/	/
EMI Testsoftware	Farad	EZ -EMC	V1.1.42	/	/

Emissions in restricted frequency bands and RF					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Test Receiver	R&S	ESCI	102109	2023/6/13	2024/6/12
Spectrum Analyzer	R&S	FSP30	1321.3008K40-101729-jR	2023/6/14	2024/6/13
966 Chamber	CY	9*6*6	20160101	2023/1/26	2025/1/25
Bore-sighting Antenna rack	PBB	1308503	16033	/	/
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2021/7/5	2024/7/4
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2023/5-21	2025/5-20
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023/5/13	2025/5/12
Horn antenna	COM-POWER	AH-1840(40G)	10100008	2023/4/5	2025/4/4
Power APM(LF)	Schwarzbeck	BBV9743	9743-151	2023/6/13	2024/6/12
Power APM(HF)	Schwarzbeck	BBV9718	9718-282	2023/6/13	2024/6/12
Cable(LF)#2	Schwarzbeck	/	/	2023/2/27	2024/2/26
Cable(LF)#1	Schwarzbeck	/	/	2023/2/27	2024/2/26
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2023/2/28	2024/2/27
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2023/2/27	2024/2/26
Power divider	MIDWEST	PWD-2533	SMA-79	2023/5/11	2026/5/10
signal generator	Keysight	N5181A	MY48180415	2022/12/10	2023/12/9
signal generator	Keysight	N5182A	MY50143455	2022/12/29	2023/12/28

Spectrum Analyzer	Keysight	N9020A	MY53420323	2022/12/29	2023/12/28
RF Sensor Unit	TACHOY	TR1029-2	000001	/	/
RF Control Unit	TACHOY	TR1029-1	000001	/	/
Position Controller	MF	MF-7802	/	/	/
EMI Testsoftware	Farad	EZ -EMC	V1.1.42	/	/
RF TestSoftware	TACHOY	RTS-01	V2.0.0.0	/	/

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	±3.41dB
Occupied Bandwidth	±3.63%
RF power density	±0.234%
Radio Frequency	2×10 ⁻⁷
RF conducted power	±0.733dB
Duty cycle	±3.1%
Conducted Spurious emissions	±1.98dB
Radiated Emission (Above 1GHz)	±5.46dB
Radiated Emission (Below 1GHz)	±5.79dB
Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

2.7 Identification of Testing Laboratory

Company Name:	Shenzhen POCE Technology Co., Ltd.
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252

Identification of the Responsible Testing Location

Company Name:	Shenzhen POCE Technology Co., Ltd.
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
FCC Registration Number:	0032847402
Designation Number:	CN1342
Test Firm Registration No.:	778666
A2LA Certificate Number:	6270.01

2.8 Announcement

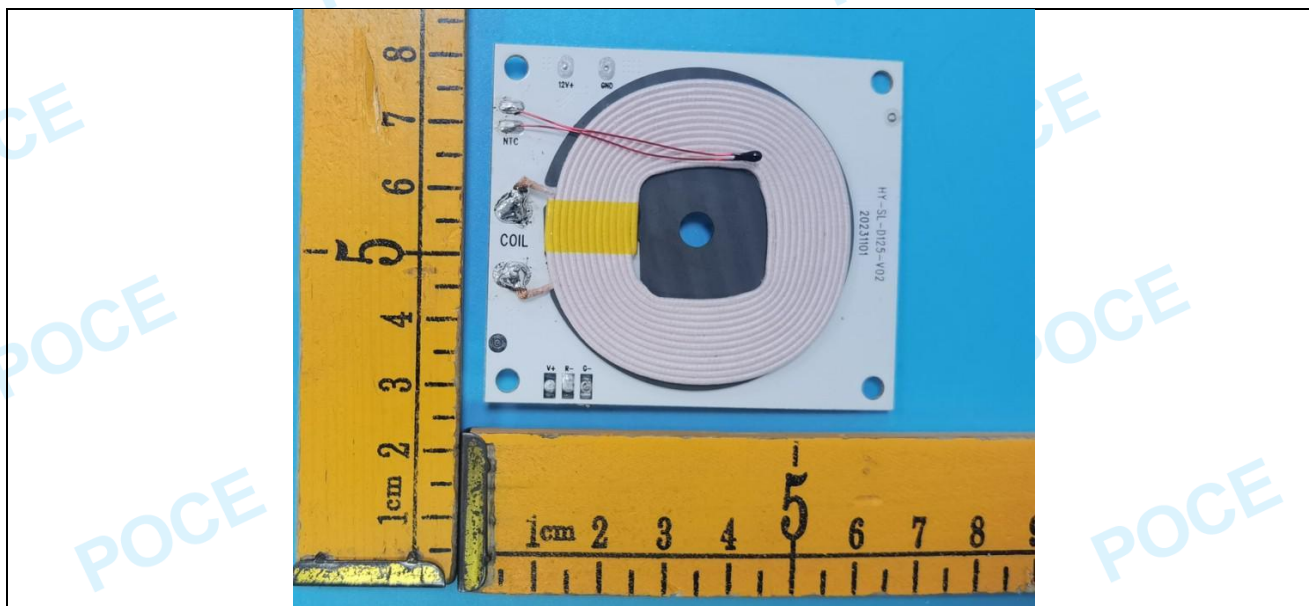
- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by POCE and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) We hereby declare that the laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant. the laboratory is not responsible for the accuracy of the information provided by the client. When the information provided by the customer may affect the effectiveness of the results, the responsibility lies with the customer, and the laboratory does not assume any responsibility.

3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
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3.1.1 Conclusion:



4 Radio Spectrum Matter Test Results (RF)

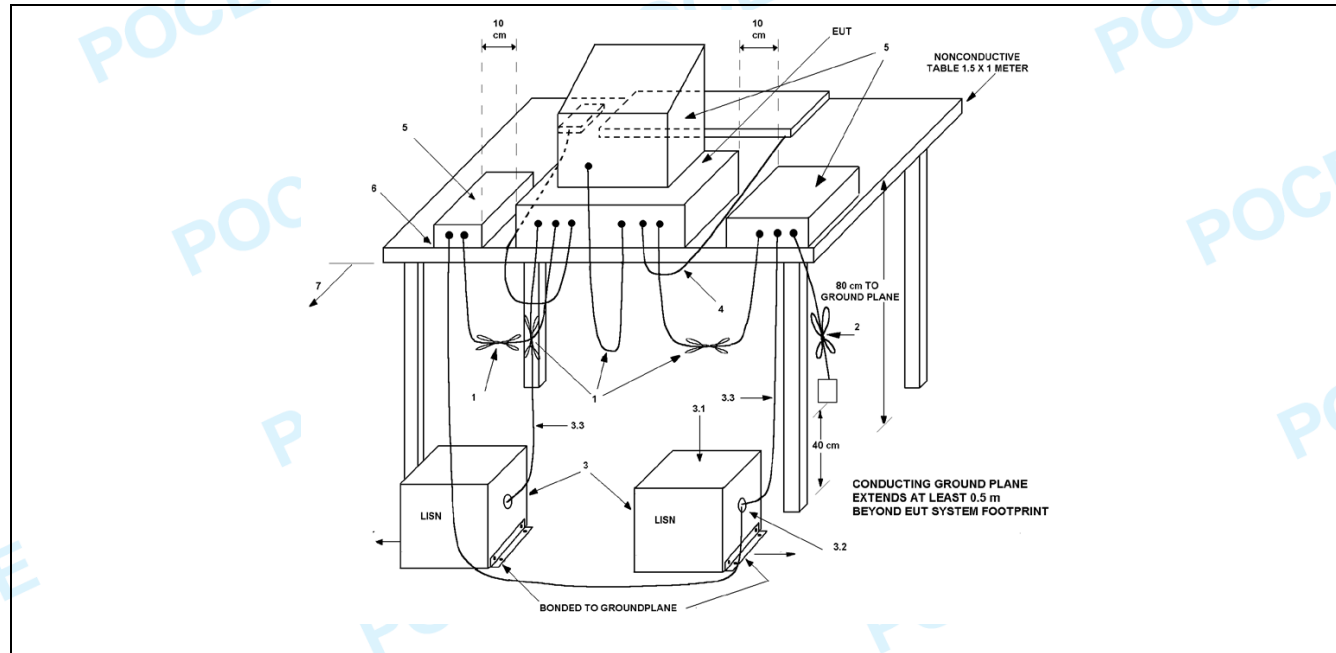
4.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
*Decreases with the logarithm of the frequency.			
Test Method:	ANSI C63.10-2013 section 6.2		
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

4.1.1 E.U.T. Operation:

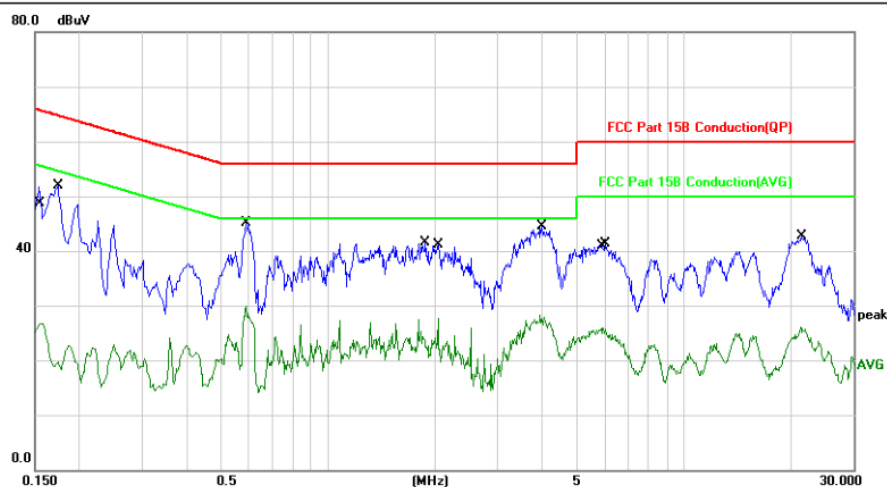
Operating Environment:					
Temperature:	23.8 °C	Humidity:	48.3 %	Atmospheric Pressure:	101 kPa
Pre test mode:	TM1, TM2, TM3				
Final test mode:	TM1(worst case)				

4.1.2 Test Setup Diagram:



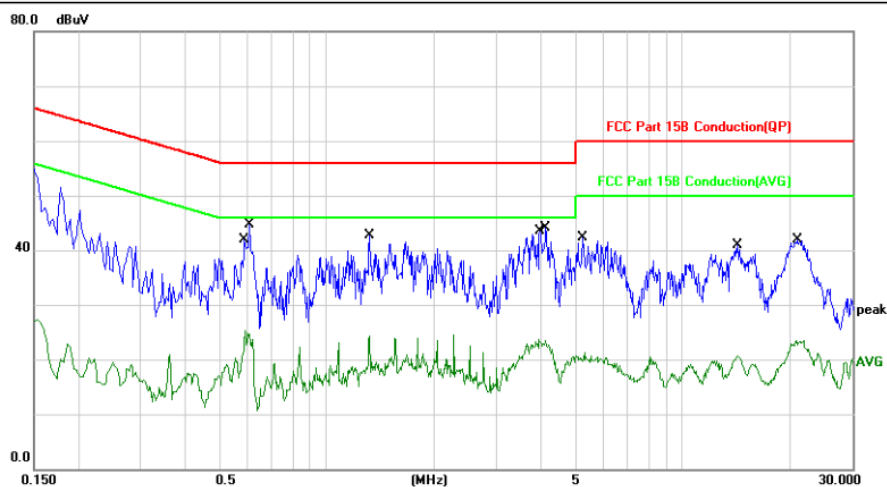
4.1.3 Test Data:

TM1 / Line: Line / BW: 0.2 / CH: M



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1580	16.73	10.03	26.76	55.56	-28.80	AVG	
2	0.1740	41.89	10.03	51.92	64.76	-12.84	QP	
3 *	0.5899	35.05	9.98	45.03	56.00	-10.97	QP	
4	0.5899	19.91	9.98	29.89	46.00	-16.11	AVG	
5	1.8780	31.48	9.96	41.44	56.00	-14.56	QP	
6	2.0340	17.68	9.97	27.65	46.00	-18.35	AVG	
7	3.9460	18.32	10.08	28.40	46.00	-17.60	AVG	
8	3.9940	34.39	10.09	44.48	56.00	-11.52	QP	
9	5.8900	15.69	10.19	25.88	50.00	-24.12	AVG	
10	6.0500	31.13	10.19	41.32	60.00	-18.68	QP	
11	21.2700	15.51	10.51	26.02	50.00	-23.98	AVG	
12	21.4300	32.12	10.52	42.64	60.00	-17.36	QP	

TM1 / Line: Neutral / BW: 0.2 / CH: M



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.5899	15.38	9.98	25.36	46.00	-20.64	AVG	
2 *	0.6060	34.71	9.98	44.69	56.00	-11.31	QP	
3	1.3180	32.86	9.92	42.78	56.00	-13.22	QP	
4	1.3180	14.37	9.92	24.29	46.00	-21.71	AVG	
5	3.9540	13.64	10.08	23.72	46.00	-22.28	AVG	
6	4.1259	34.00	10.09	44.09	56.00	-11.91	QP	
7	5.2419	32.23	10.15	42.38	60.00	-17.62	QP	
8	5.2899	11.08	10.15	21.23	50.00	-28.77	AVG	
9	14.2379	30.38	10.46	40.84	60.00	-19.16	QP	
10	14.2379	10.15	10.46	20.61	50.00	-29.39	AVG	
11	20.9100	13.00	10.50	23.50	50.00	-26.50	AVG	
12	21.0340	31.40	10.50	41.90	60.00	-18.10	QP	

Note:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor, Over=Limit- Measurement

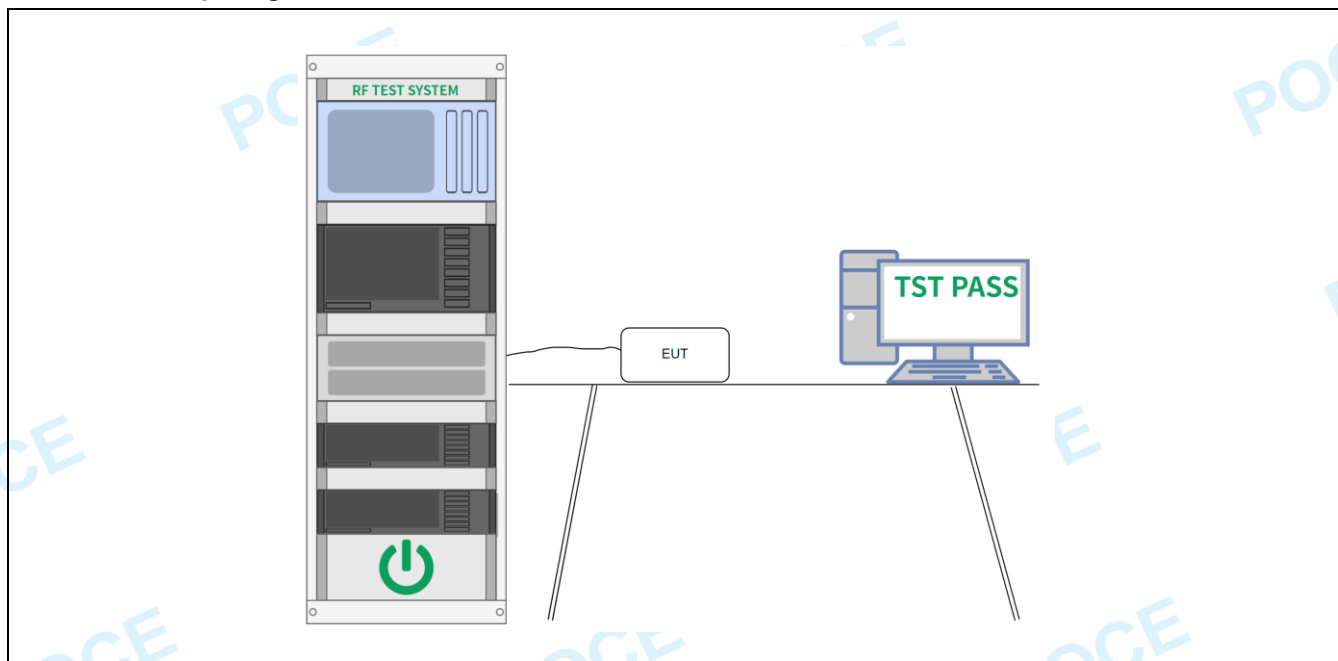
4.2 20dB Occupied Bandwidth

Test Requirement:	47 CFR Part 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2013, section 6.9.2
Procedure:	<p>a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.</p> <p>d) Steps a) through c) might require iteration to adjust within the specified tolerances.</p> <p>e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.</p> <p>f) Set detection mode to peak and trace mode to max hold.</p> <p>g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).</p> <p>h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - \text{xx}]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.</p> <p>i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).</p> <p>j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.</p> <p>k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).</p>

4.2.1 E.U.T. Operation:

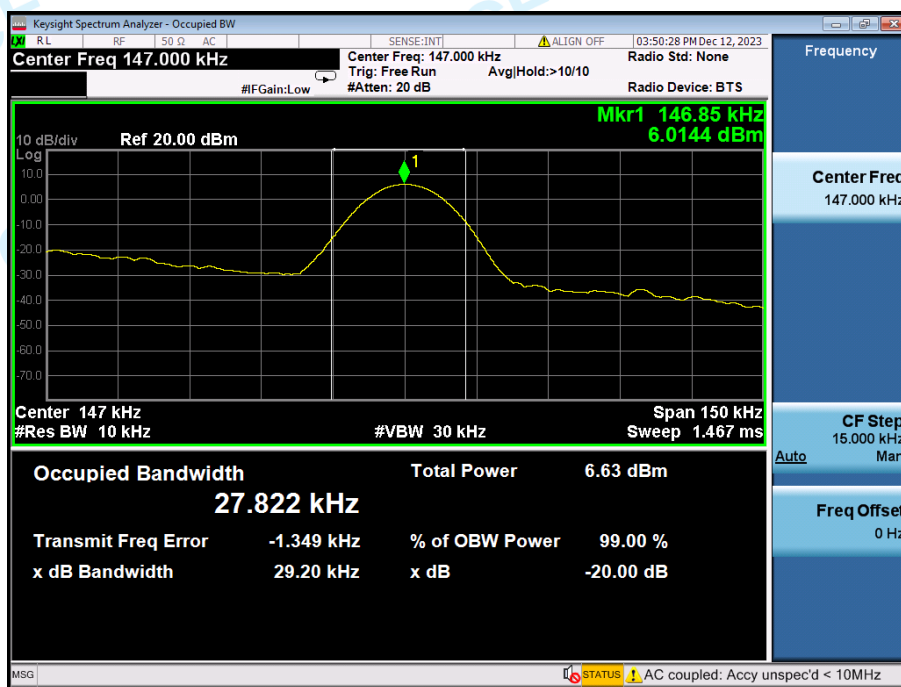
Operating Environment:					
Temperature:	23.8 °C	Humidity:	48.3 %	Atmospheric Pressure:	101 kPa
Pre test mode:		TM1, TM2, TM3			
Final test mode:		TM1			

4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Condition	Antenna	Frequency (KHz)	99%BW(KHz)	-20dB BW(KHz)
NVNT	ANT1	147	27.822	29.20



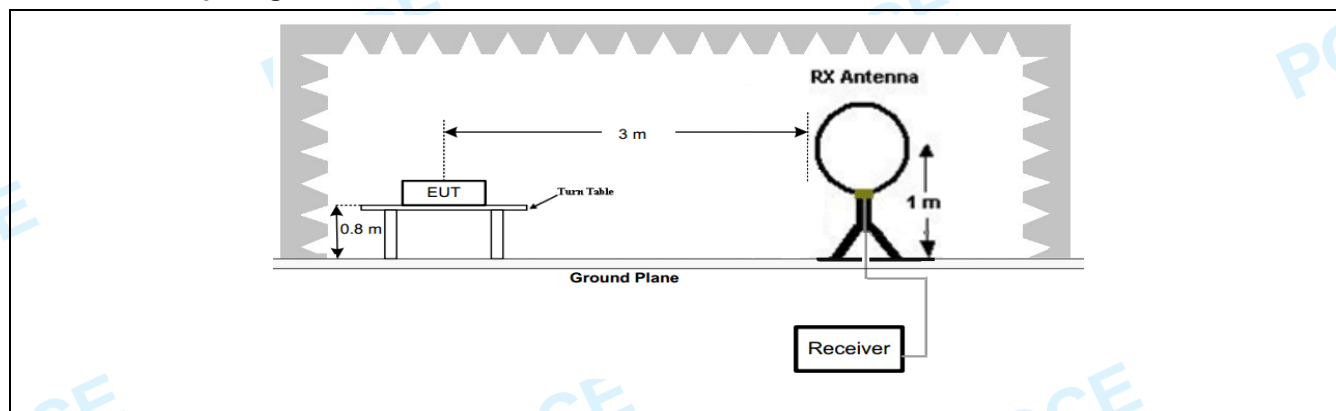
4.3 Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	<p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> <p>As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p>		
Test Method:	ANSI C63.10-2013 section 6.4		
Procedure:	ANSI C63.10-2013 section 6.4		

4.3.1 E.U.T. Operation:

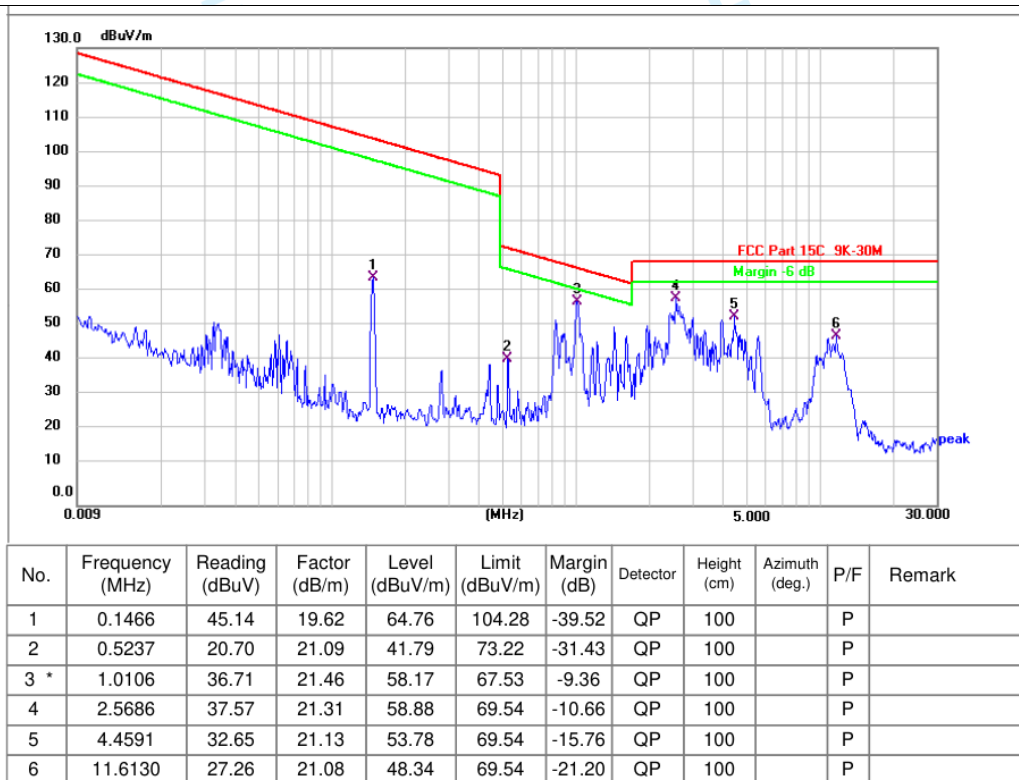
Operating Environment:			
Temperature:	23.8 °C	Humidity:	48.3 %
Pre test mode:	TM1, TM2, TM3		
Final test mode:	TM1(worst case)		

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

TM1 / Polarization: Horizontal / BW: 0.2 / CH: M



Remark: Margin= Measurement Level - Limit

Measurement Level=Test receiver reading + correction factor

Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

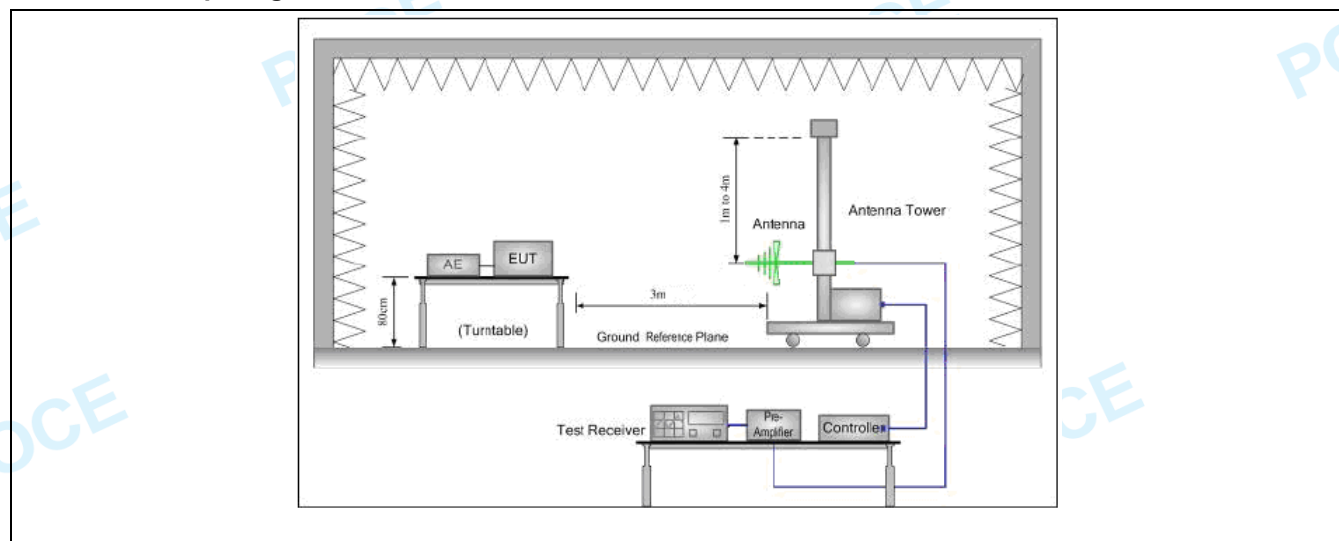
4.4 Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
<p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> <p>As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p>			
Test Method:	ANSI C63.10-2013 section 6.5		
Procedure:	ANSI C63.10-2013 section 6.5		

4.4.1 E.U.T. Operation:

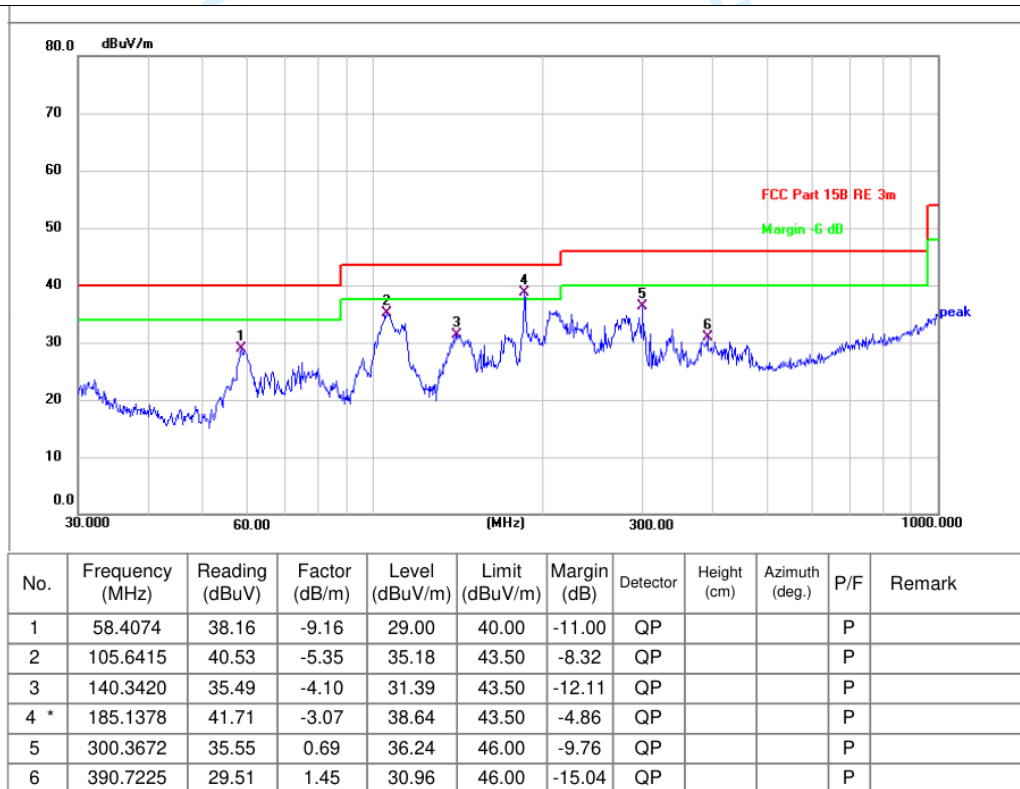
Operating Environment:			
Temperature:	23.8 °C	Humidity:	48.3 %
Pre test mode:	TM1, TM2, TM3		
Final test mode:	TM1(worst case)		

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

TM1 / Polarization: Horizontal



TM1 / Polarization: Vertical



Remark: Margin= Measurement Level - Limit

Measurement Level=Test receiver reading + correction factor

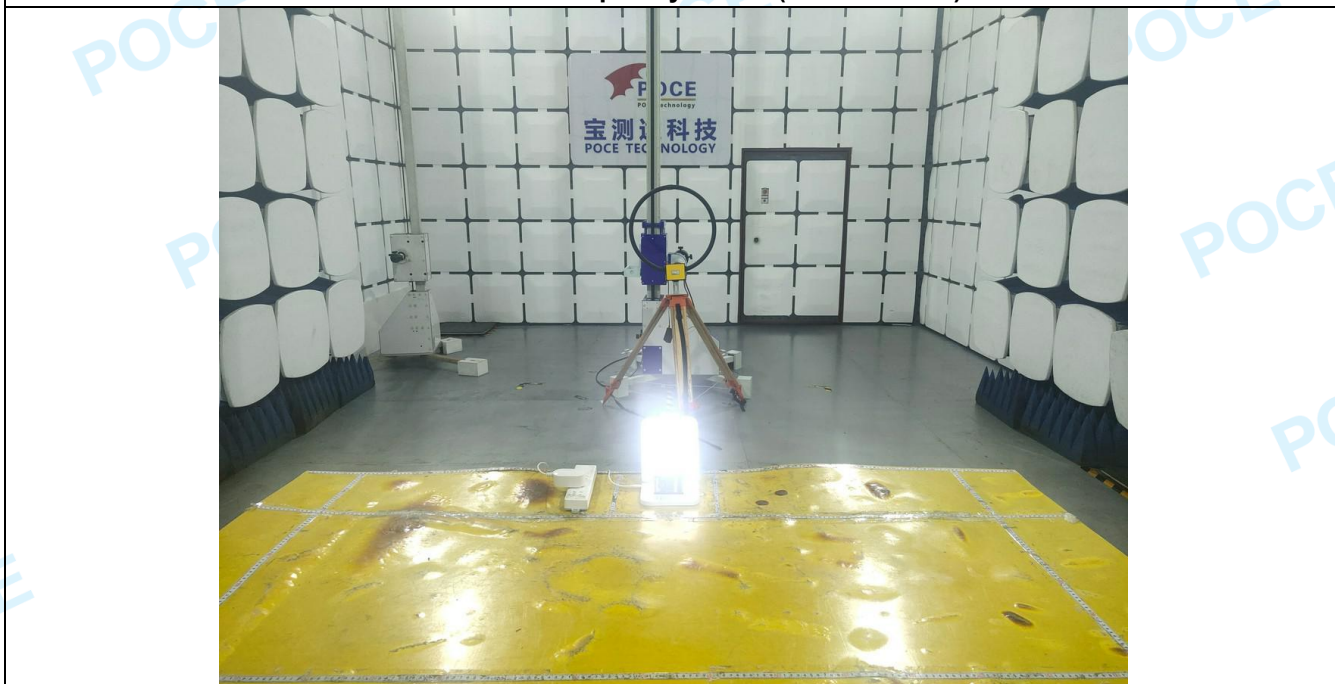
Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

5 TEST SETUP PHOTOS

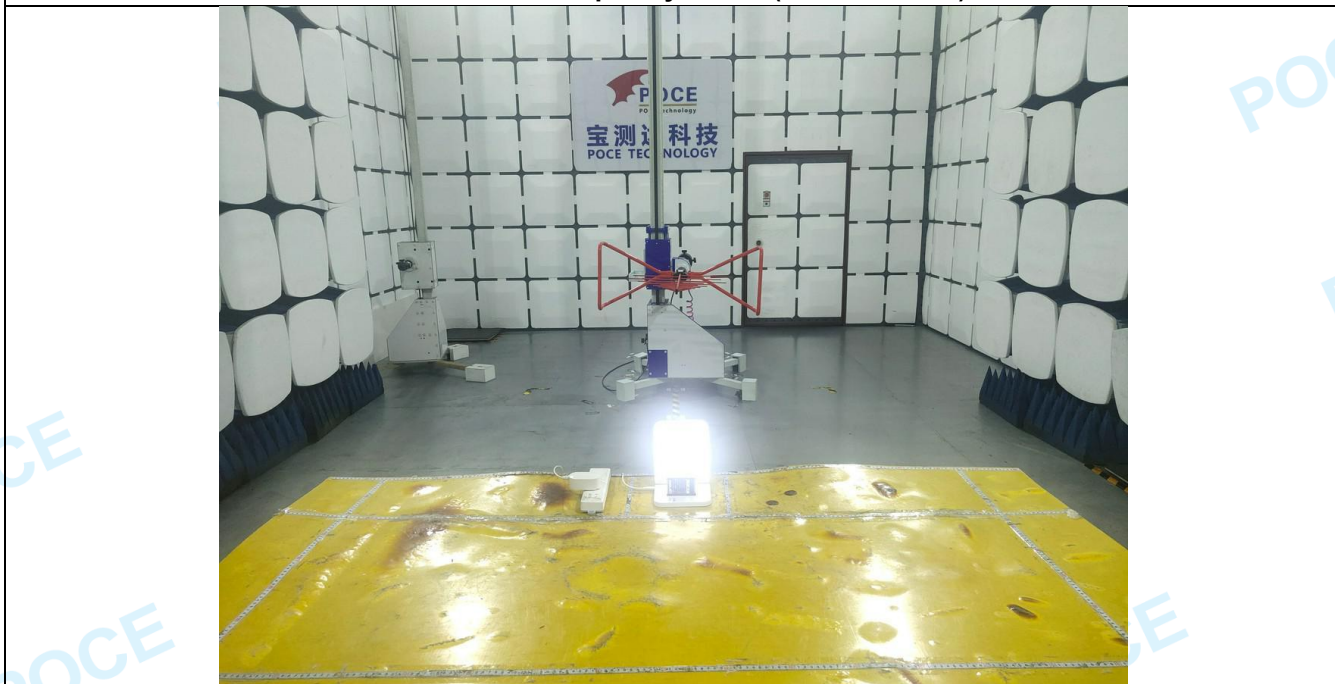
Conducted Emission at AC power line



Emissions in frequency bands (below 30MHz)



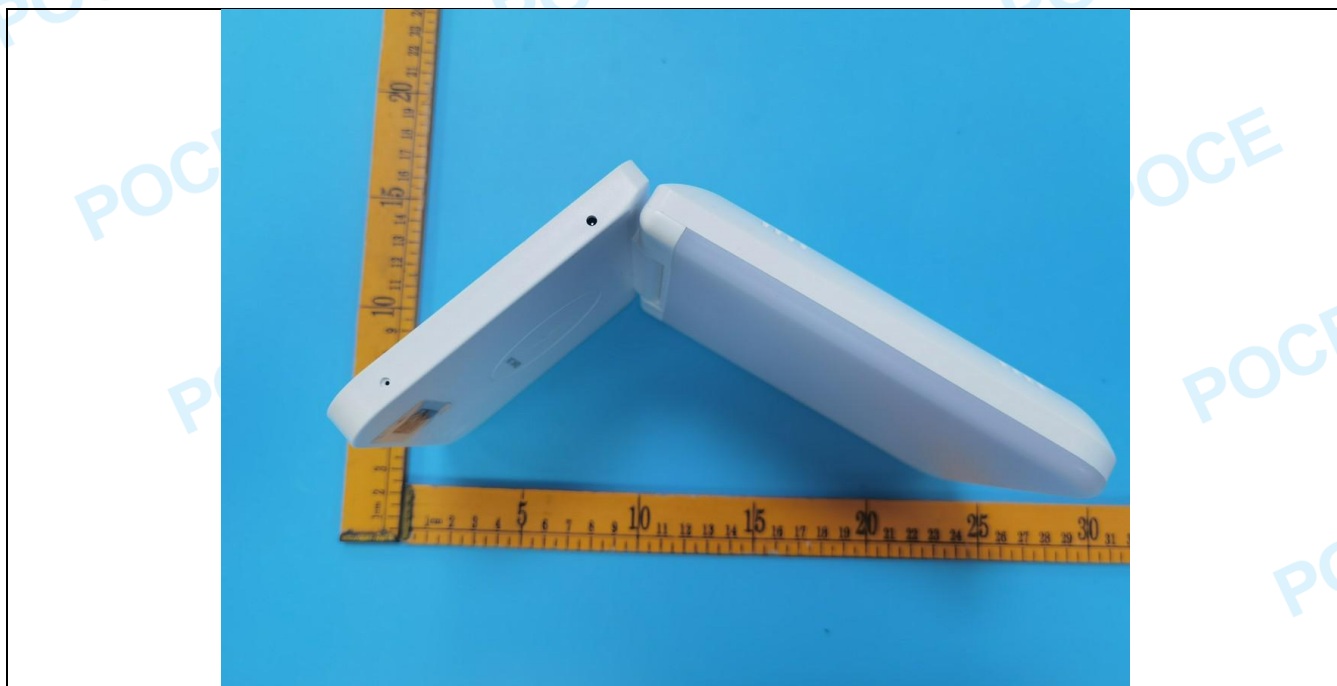
Emissions in frequency bands (30MHz - 1GHz)



6 PHOTOS OF THE EUT

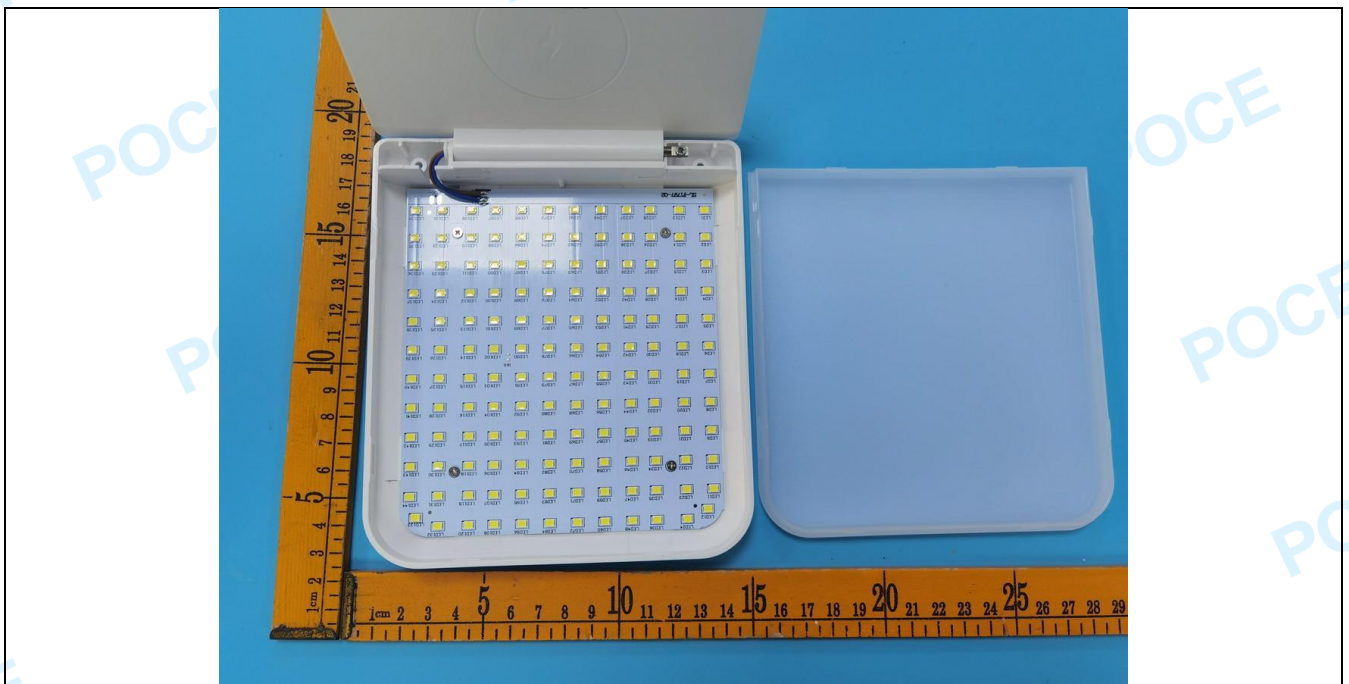
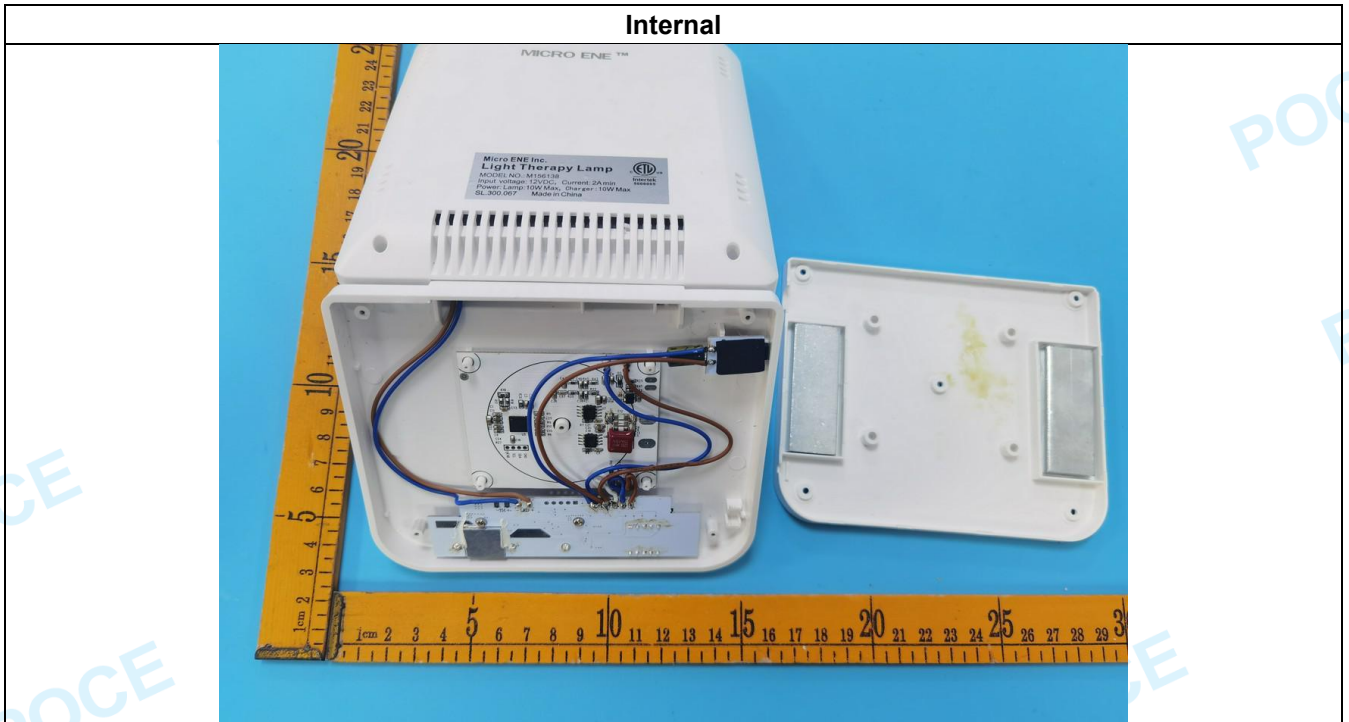
External

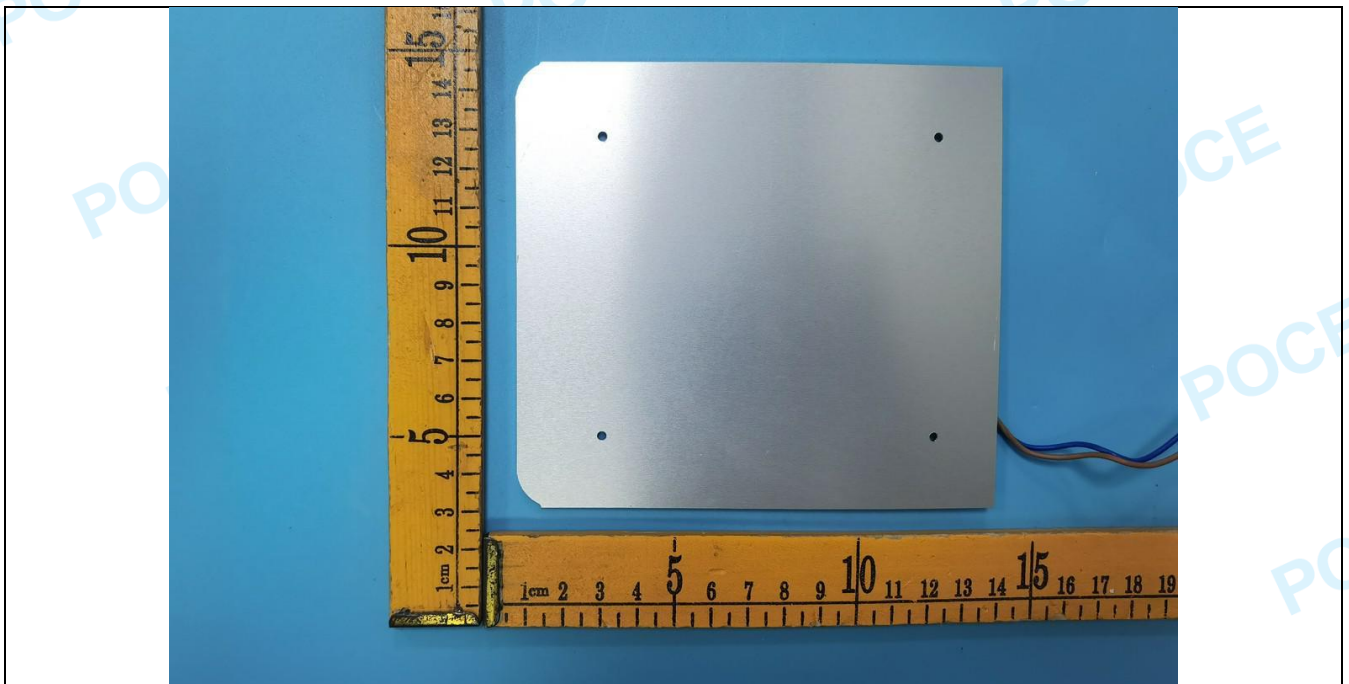
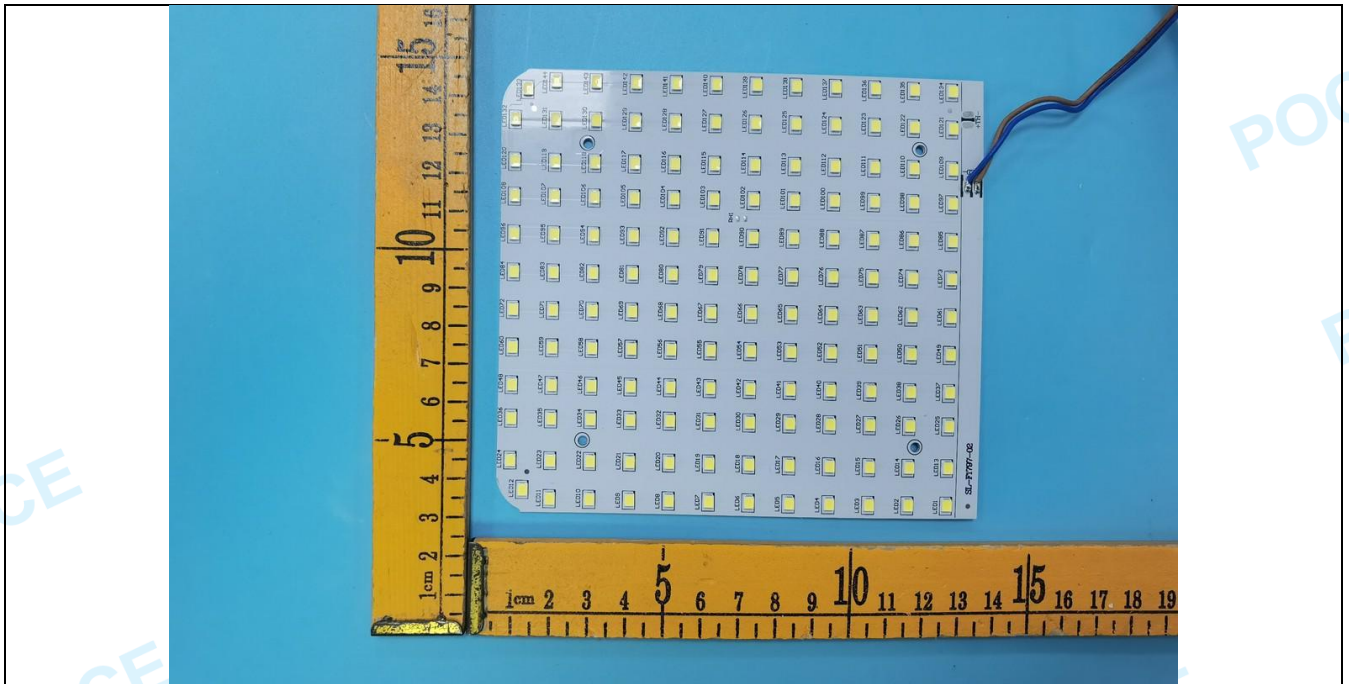


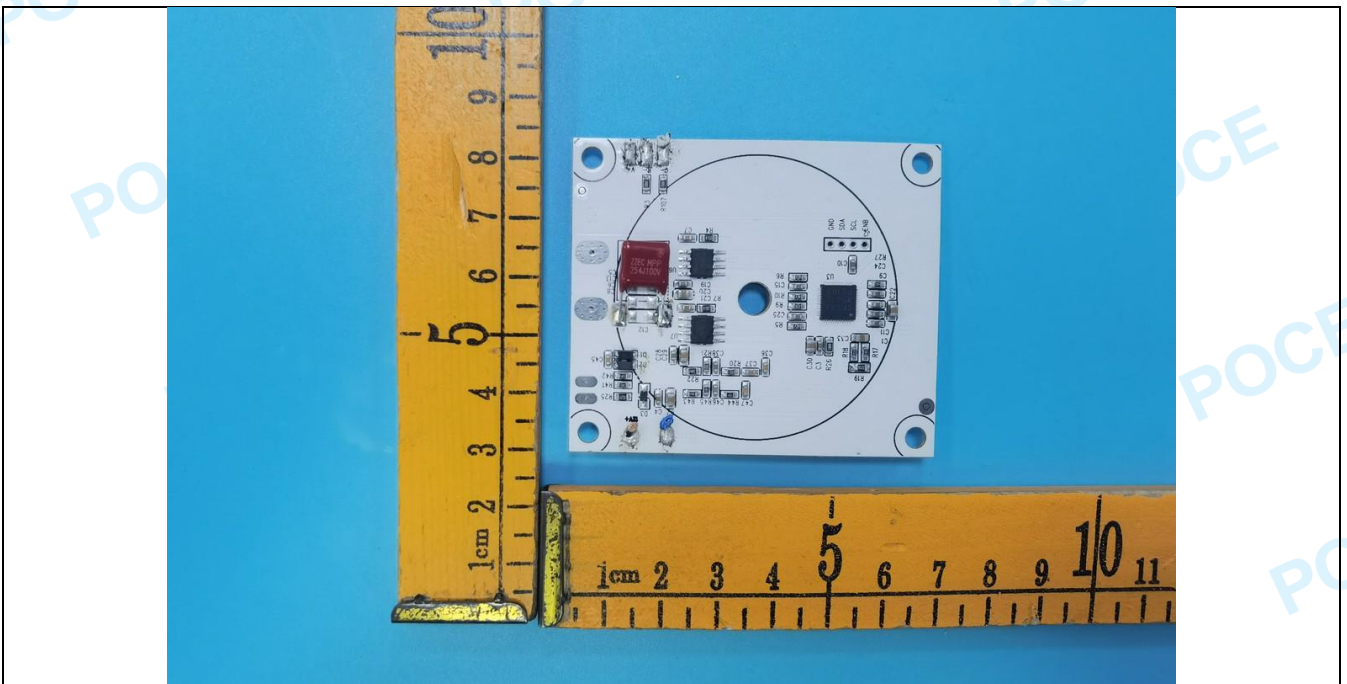
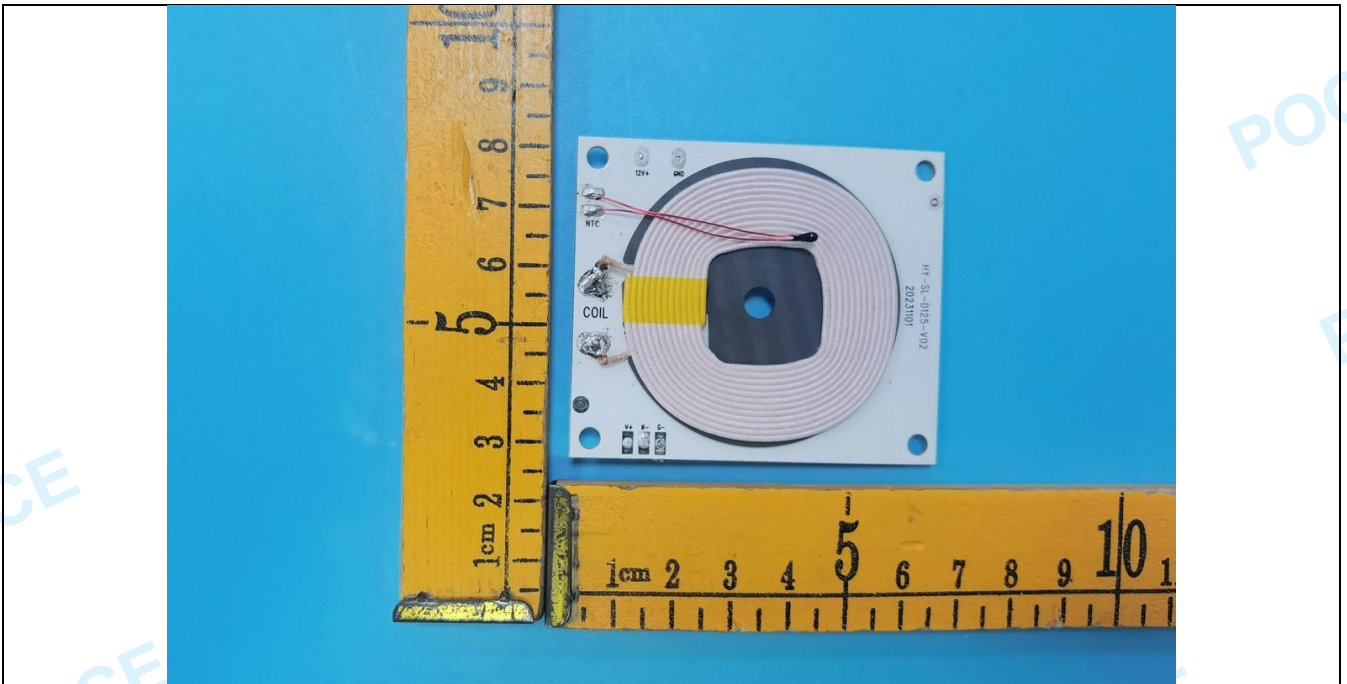


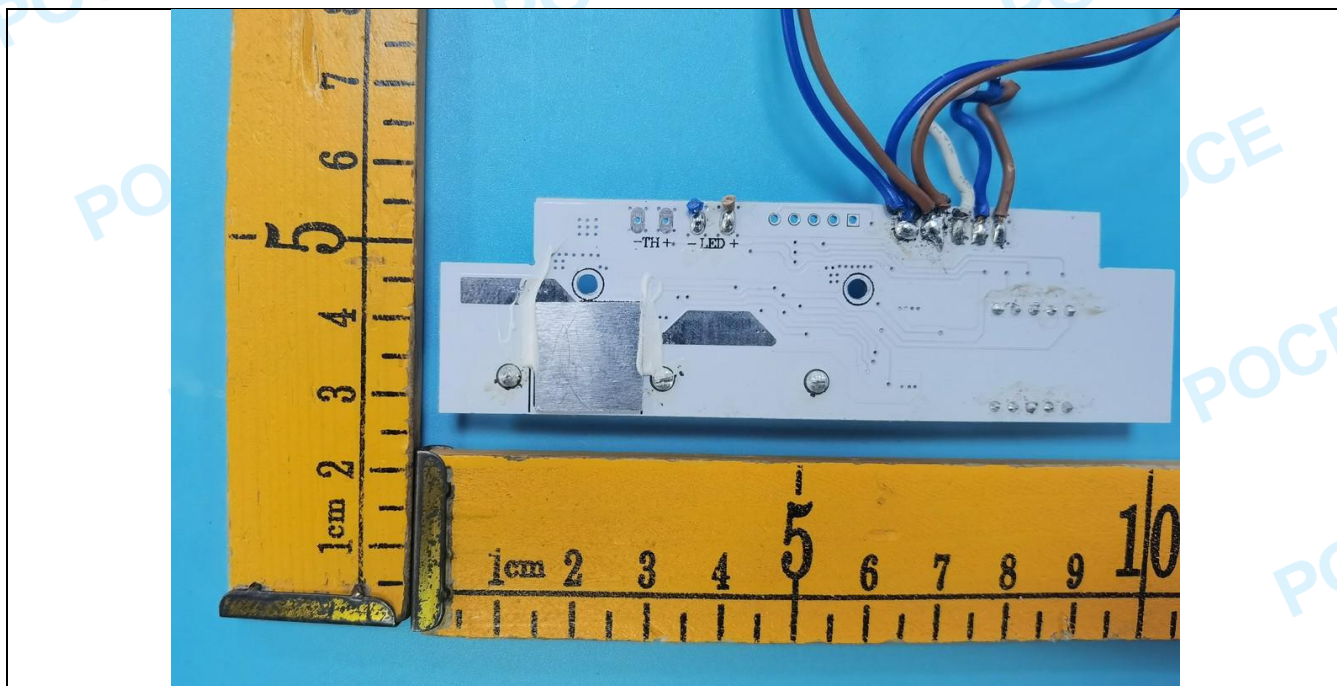
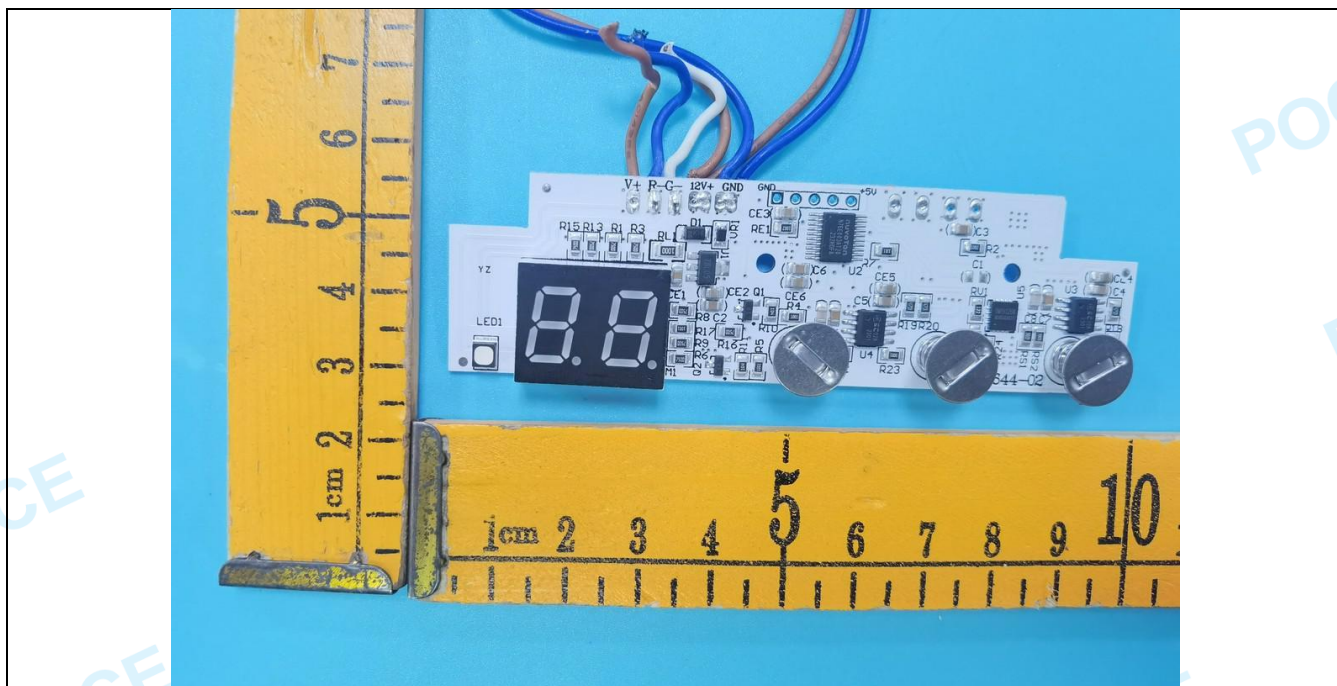


Internal









***** End of Report *****