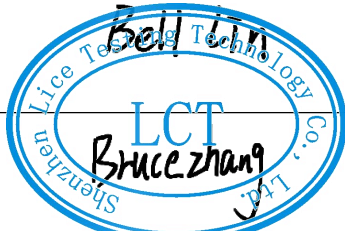




FCC Part 15B Test Report

Report Number.....:	LCT-250103010329	
Applicant' s name.....:	Shenzhen KeepTeen Electronic Technology Co., Ltd.	
Address.....:	Room 502,5th Floor, No.1 Longtang Industrial Zone,Henggang Street, Longgang District, Shenzhen	
Equipment Under Test (EUT)		
EUT Name.....:	Solar Charger	
Model No.....:	D5	
Serial No..... :	D5-L, K5, K7	
Brand Name..... :	N/A	
Testing Laboratory.....:	Shenzhen Lice Testing Technology Co., Ltd. Room 112-113, Building B15, Yintian Industrial Zone, Yantian, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China	
Standards..... :	FCC Part 15 Subpart B	
Conclusions.....:	PASS	
Receipt Date.....:	2025-01-16	
Test Date.....:	2025-01-16 to 2025-01-19	
Issue Date.....:	2025-01-19	
Test/Witness Engineer.....:	Bell Lin	
Approved & Authorized.....:	Bruce Zhang	

The test results of this report relate only to the tested sample identified in this report. This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laborator.

Contents

CONTENTS	2
1. GENERAL INFORMATION	3
1.1 Client Information	3
1.2 General Description of EUT (Equipment Under Test)	3
1.3 Block Diagram Showing The Configuration of System Tested	3
1.4 Test standards	3
1.5 Test Facility	4
1.6 Equipment Used Test	4
2. TEST SUMMARY	5
3. CONDUCTED EMISSION TEST	6
3.1 Test Standard and Limit	6
3.2 Test Setup	6
3.3 Test Procedure	6
3.4 Test Data	7
4. RADIATED EMISSION TEST	8
4.1 Test Standard and Limit	8
4.2 Test Setup	8
4.3 Test Procedure	8
4.4 Test Condition	9
4.5 Test Data	9
5. PHOTOGRAPHS - CONSTRUCTIONAL DETAILS	12

1. General Information

1.1 Client Information

Applicant	:	Shenzhen KeepTeen Electronic Technology Co., Ltd.
Address	:	Room 502,5th Floor, No.1 Longtang Industrial Zone,Henggang Street, Longgang District, Shenzhen
Manufacturer	:	Shenzhen KeepTeen Electronic Technology Co., Ltd.
Address	:	Room 502,5th Floor, No.1 Longtang Industrial Zone,Henggang Street, Longgang District, Shenzhen

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Solar Charger
Model No.	:	D5
Serial No.	:	D5-L, K5, K7
Brand Name	:	N/A
Power Supply	:	DC 5V, 3A
Remark: All above models are identical in schematic, structure and critical components except for only different model name; therefore, EMC testing was performed with D5 only.		

1.3 Block Diagram Showing The Configuration of System Tested



1.4 Test standards

The objective is to determine compliance with FCC Part 15, Subpart B, and section 15.107, 15.109 rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.5 Test Facility

The testing report were performed by the Shenzhen Lice Testing Technology Co., Ltd., in their facilities located at Room 112-113, Building B15, Yintian Industrial Zone, Yantian, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.

1.6 Equipment Used Test

1.6.1 Test Equipment Used to Measure Conducted Emission

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC001	EMI Test Receiver	Rohde & Schwarz	ESCS30	Dec. 28, 2024	1 Year
LCT-EMC002	AMN	Rohde & Schwarz	ENV216	Dec. 28, 2024	1 Year
LCT-EMC003	AMN	SCHWARZBECK	NNBL 8226-2	Dec. 28, 2024	1 Year

1.6.2 Test Equipment Used to Measure Radiated Emission

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC004	EMI Test Receiver	Rohde & Schwarz	ES126	Dec. 28, 2024	1 Year
LCT-EMC005	Bilog Antenna	SCHWARZBECK	VULB9163	Dec. 28, 2024	1 Year
LCT-EMC006	Positioning Controller	C&C	CC-C-1F	N/A	N/A

2. Test Summary

Test Items	Test Requirement	Test Method	Result
Conducted Emission	FCC Part 15 Subpart B	ANSI C63.4	N/A
Radiated Emission	FCC Part 15 Subpart B	ANSI C63.4	Pass
Note: N/A is an abbreviation for Not Applicable.			

3. Conducted Emission Test

3.1 Test Standard and Limit

3.1.1 Test Standard
FCC Part 15 B

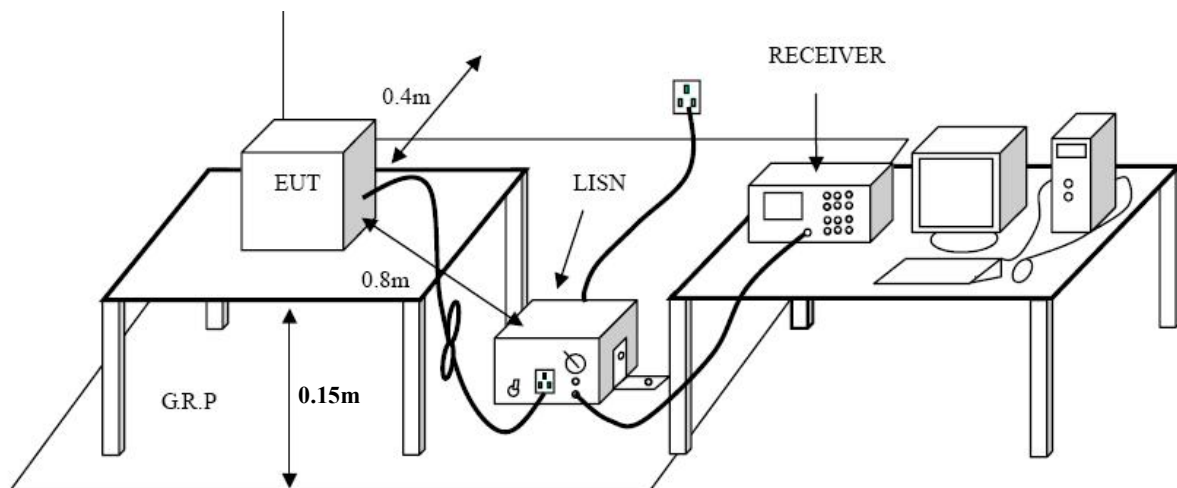
3.1.2 Test Limit

Conducted Emission Test Limit (Class B)

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

*decreasing linearly with logarithm of the frequency

3.2 Test Setup



3.3 Test Procedure

The EUT was placed 0.15 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

The cables shall be insulated (by up to 15 cm) from the horizontal ground reference plane, and shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

3.4 Test Data

This test is not applicable.

4. Radiated Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard

FCC Part 15 B

4.1.2 Test Limit

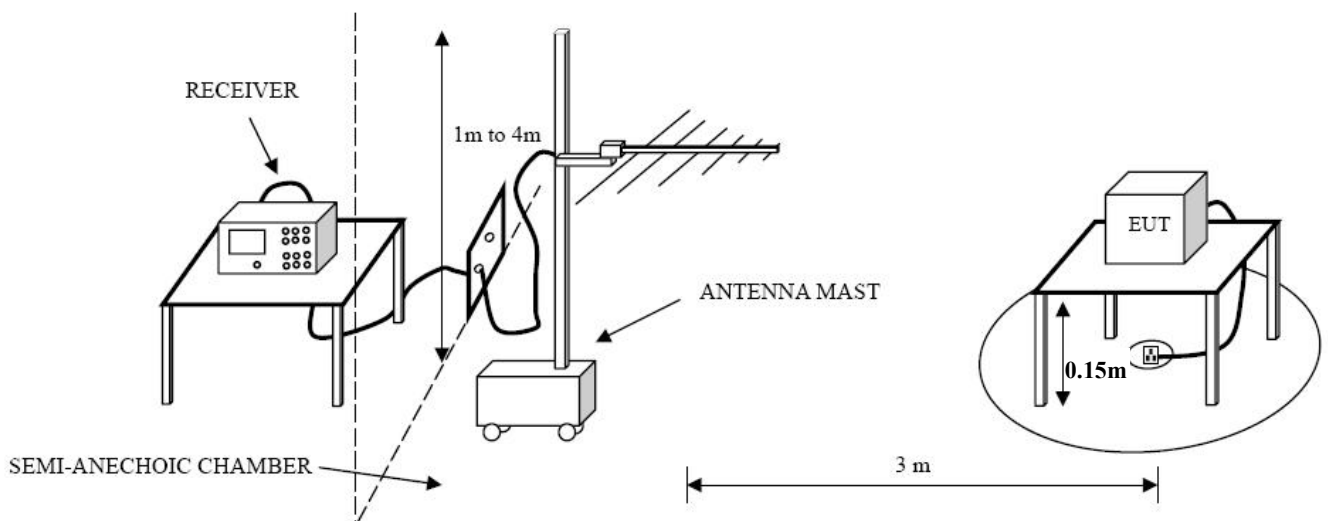
Radiated Emission Test Limit (Class B)

Frequency MHz	Field Strengths Limits dB(μ V/m)
30 ~ 88	40.0
88 ~ 216	43.5
216 ~ 960	46.0
960 ~ 1000	54.0

* The lower limit shall apply at the transition frequency.

* The test distance is 3m.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed on the top of a rotating table which is 0.15 meters above the ground. EUT is set 3.0 meters away from the receiving antenna that mounted on a antenna tower. The table was rotated 360 degrees to determine the position of the highest radiation, the antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

Measurements shall be made with a quasi-peak measuring receiver in the frequency range 30MHz to 1000MHz. If the Peak Mode measured value compliance with and lower than

quasi-peak mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

4.4 Test Condition

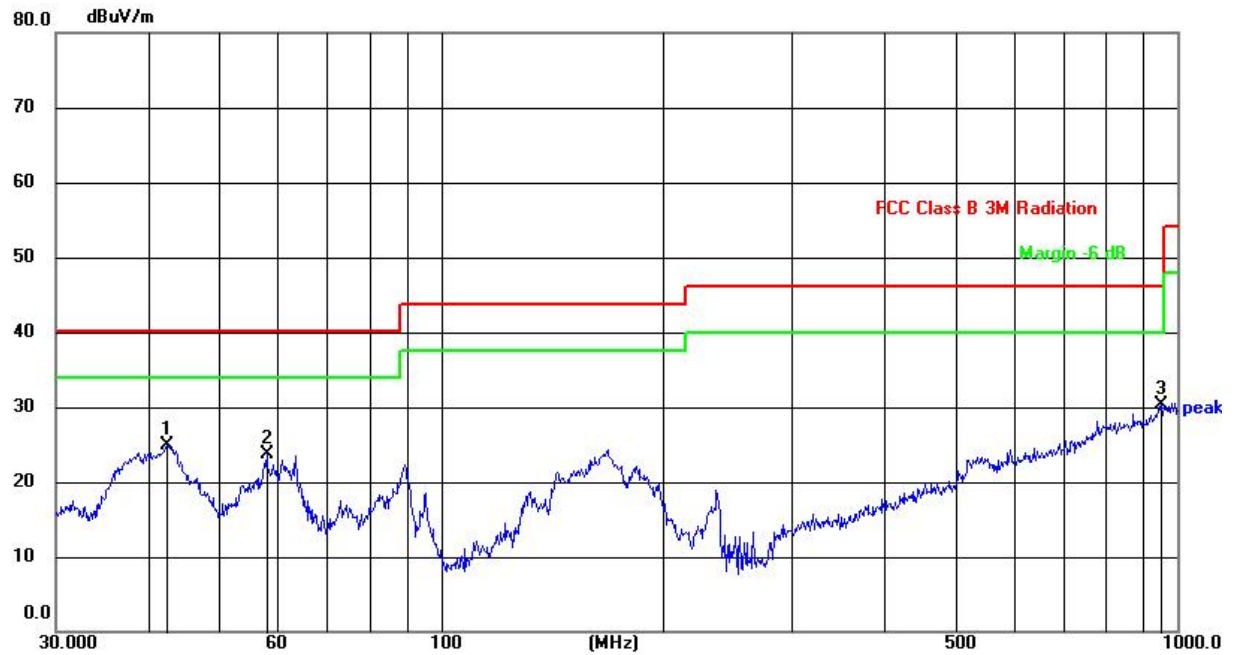
Temperature	:	25 °C
Relative Humidity	:	48 %
Pressure	:	1010 hPa
Test Power	:	DC 5V

4.5 Test Data

Please refer to the following pages.

Operating Condition: Normal

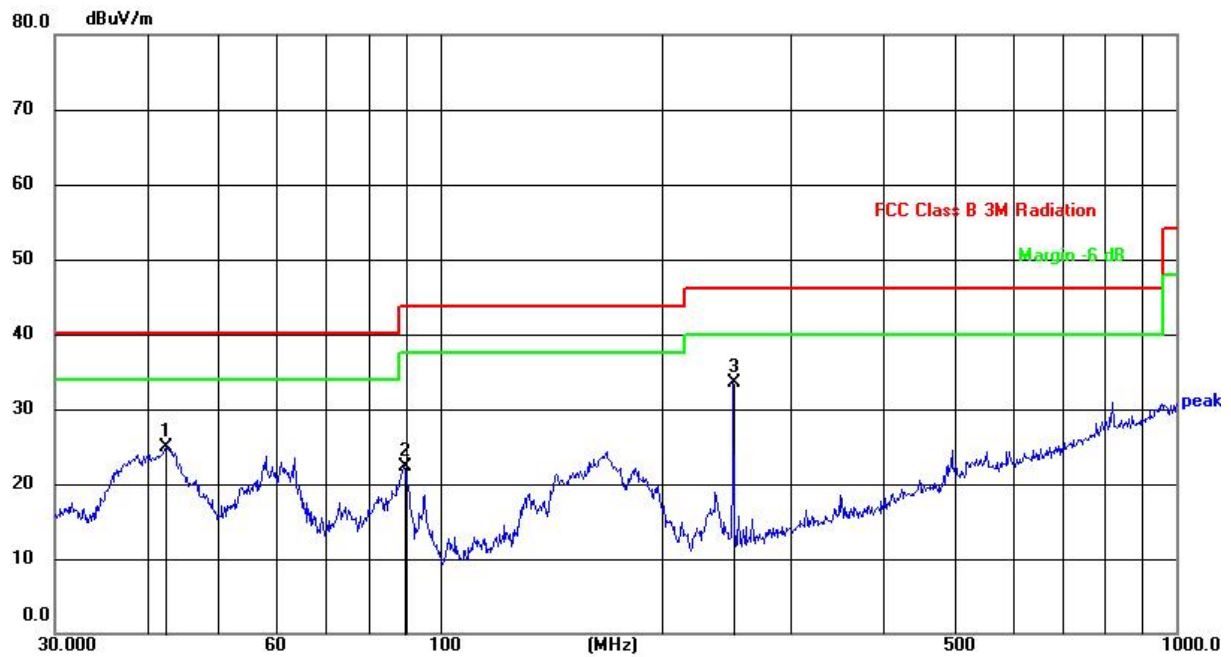
Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	42.4508	46.04	-21.06	24.98	40.00	-15.02	peak				
2	57.9992	46.05	-22.40	23.65	40.00	-16.35	peak				
3	952.0937	34.01	-3.79	30.22	46.00	-15.78	peak				

Operating Condition: Normal

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	42.4508	46.04	-21.06	24.98	40.00	-15.02	peak				
2	89.2764	47.77	-25.45	22.32	43.50	-21.18	peak				
3	250.3012	55.80	-22.25	33.55	46.00	-12.45	peak				

5. Photographs - Constructional Details

Photo 1 Appearance of EUT

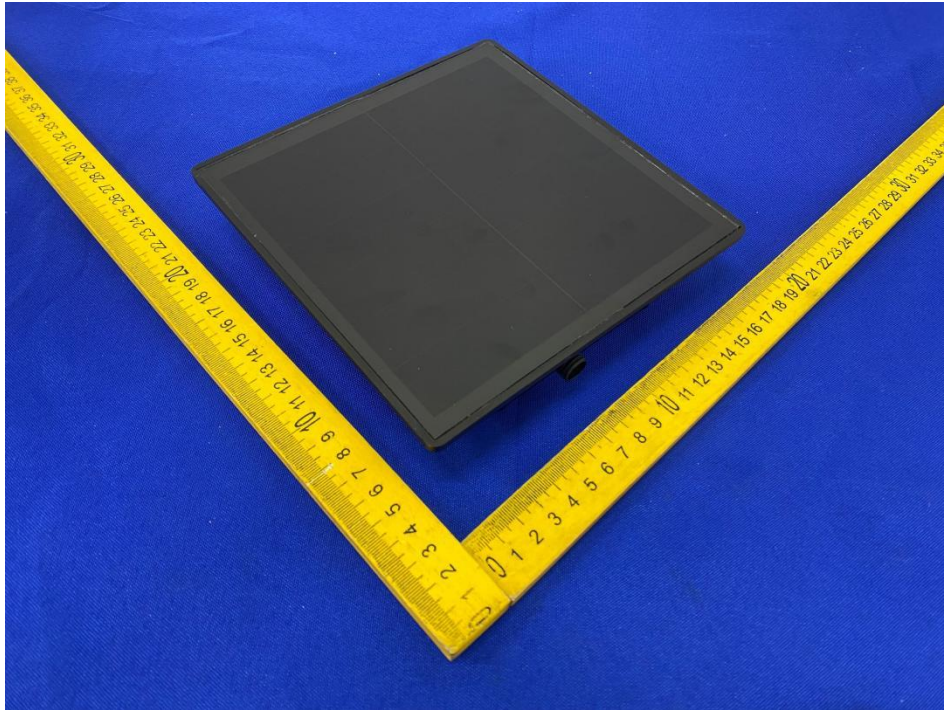


Photo 2 Appearance of EUT

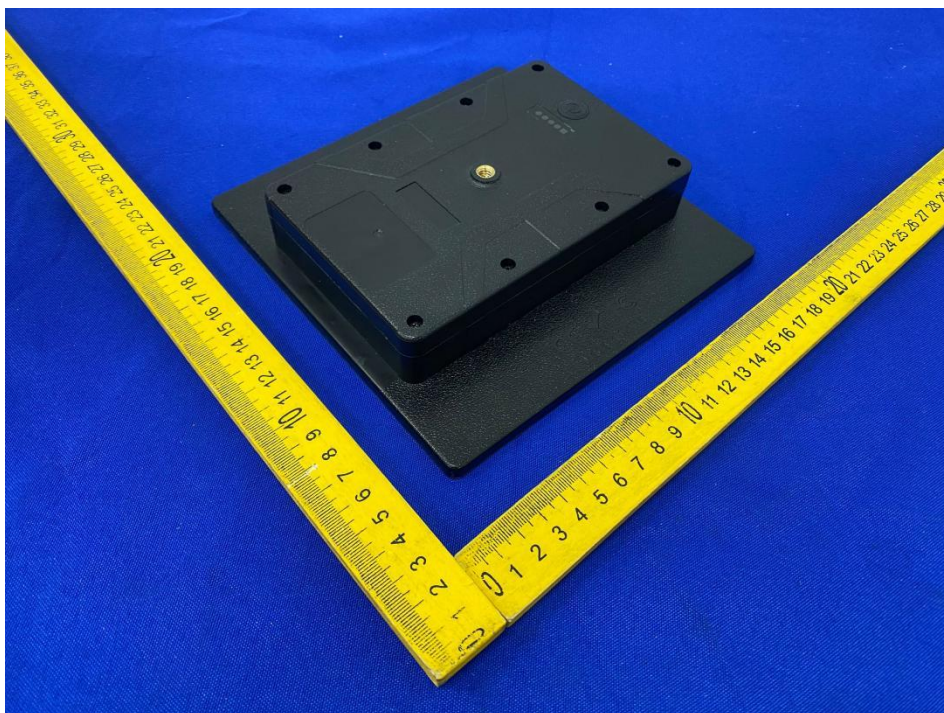


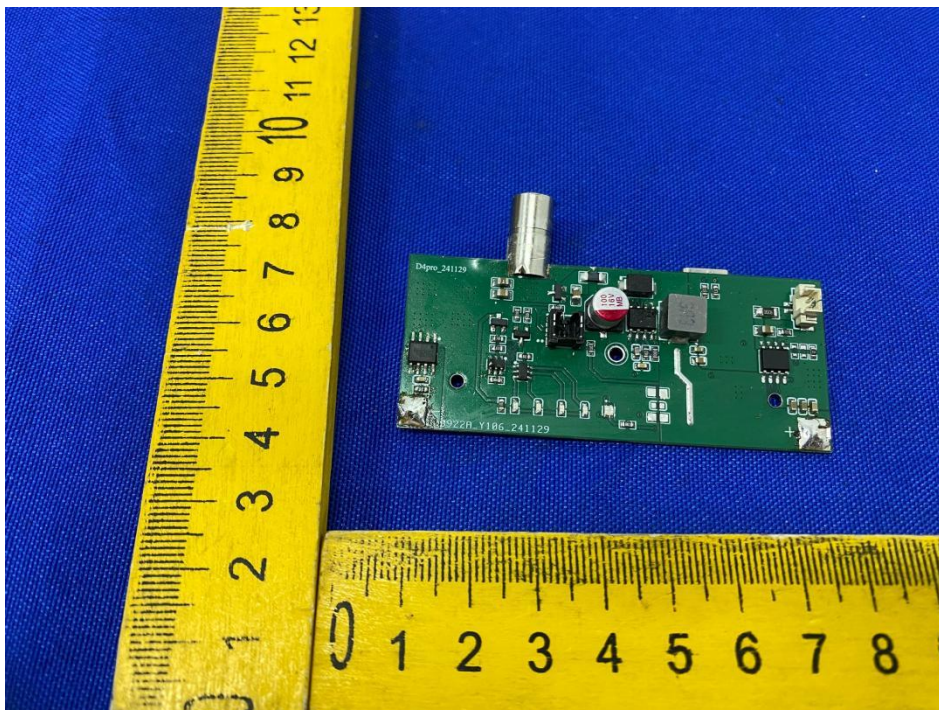
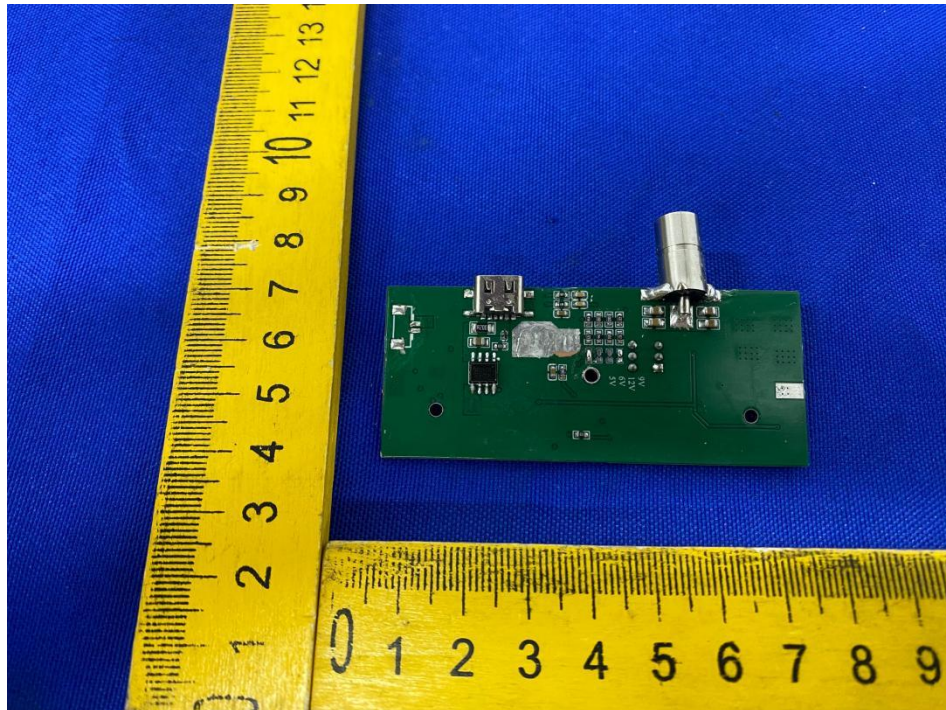
Photo 3 Inside of EUT**Photo 4 Appearance of PCB**

Photo 5 Appearance of PCB



END OF REPORT