

Verification
On Behalf of
Smart Team Holdings Limited

Macaron Charger
Model No.: MAC2014

Prepared for : Smart Team Holdings Limited
Address : Flat A01, 5/F., Great Wall Fty Bldg., 11 Cheung Shun Street,
Lai Chi Kwok, Kowloon, HK

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited
Address : 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road,
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Report Number : 201404569F
Date of Test : Apr. 30~May 04, 2014
Date of Report : May 05, 2014

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APPENDIX I (Photos of EUT) (3 Pages)

TEST REPORT VERIFICATION

Applicant : Smart Team Holdings Limited
Manufacturer : Shenzhen Smart Team Technology Ltd.
EUT : Macaron Charger
Model No. : MAC2014
Rating : DC 5V, 1A
Trade Mark : N.A.

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B 15.109 & FCC / ANSI C63.4-2009

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements.

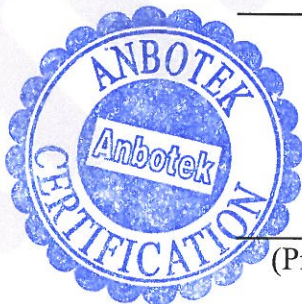
This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited

Date of Test : Apr. 30~May 04, 2014

Prepared by :

Barak Ban
(Engineer/ Barak Ban)

Reviewer :



Dolly Mo
(Project Manager/ Dolly Mo)

Approved & Authorized Signer :

Tom Chen
(Manager/ Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	: Macaron Charger
Model Number	: MAC2014
Test Power Supply	: DC 5V via adapter AC 120V, 60Hz / DC 5V
Applicant	: Smart Team Holdings Limited
Address	: Flat A01, 5/F., Great Wall Fty Bldg., 11 Cheung Shun Street, Lai Chi Kwok, Kowloon, HK
Manufacturer	: Shenzhen Smart Team Technology Ltd.
Address	: Xutai Industrial Zone, Long Wo Road, Long Tian Village, Keng Zi Town, Longang District, Shenzhen, Guangdong, China
Factory	: Shenzhen Smart Team Technology Ltd.
Address	: 3/F., A Building, Xutai Industrial Zone, Long Wo Road, Long Tian Village, Keng Zi Town, Longang District, Shenzhen, Guangdong, China
Date of receipt	: Apr. 30, 2014
Date of Test	: Apr. 30~May 04, 2014

1.2. Description of Test Facility

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

CNAS - LAB Code: L3503

Shenzhen Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, 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 752021, July 10, 2013

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A-1, Feb. 22, 2013

Test Location

All Emissions tests were performed
Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

1.3. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.3dB

Conduction Uncertainty : Uc = 3.4dB

1.4. Test Summary

For the EUT described above. The standards used were FCC Part 15 Subpart B for Emissions.

Table 1 : Tests Carried Out Under FCC Part 15 Subpart B

Standard	Test Items	Status
FCC Part 15 Subpart B	Power Line Conducted Emission Test (150KHz To 30MHz)	x
FCC Part 15 Subpart B	Radiated Emission Test (30MHz To 1000MHz)	√

√ Indicates that the test is applicable

x Indicates that the test is not applicable

2. RADIATED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

2.1.1. For Anechoic Chamber

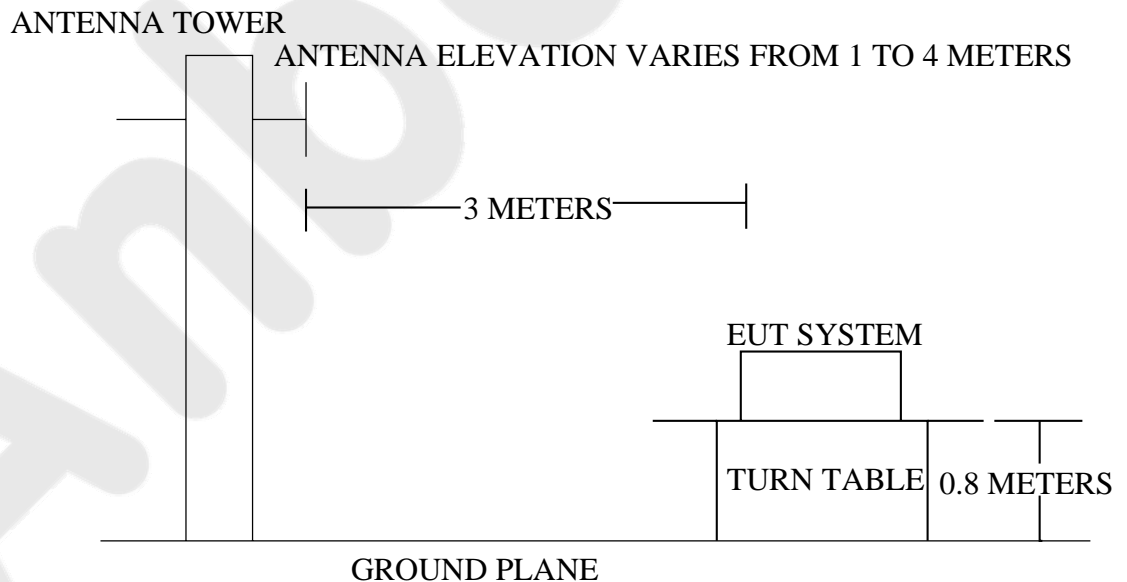
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 23, 2014	1 Year
2.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	May 14, 2013	3 Year
3.	Pre-amplifier	SONOMA	310N	186860	Aug. 09, 2014	1 Year

2.2. Block Diagram of Test Setup

2.2.1 Block diagram of connection between the EUT and simulators



2.2.2. Anechoic Chamber Test Setup Diagram



2.3. Radiated Emission Limit (Subpart B Class B)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30~88	3	100	40.0
88~216	3	150	43.5

216~960	3	200	46.0
960~1000	3	500	54.0

- Remark :
- (1) Emission level (dB) $\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

2.4. EUT Configuration on Measurement

The following equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

2.5. Operating Condition of EUT

2.5.1. Setup the EUT as shown in Section 2.2.

2.5.2. Let the EUT work in test mode (Charging / Discharging) and measure it.

2.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (Trilog Broadband Antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission measurement.

The bandwidth of the EMI test receiver (ESCI) is set at 120kHz.

The frequency range from 30MHz to 1000MHz is checked.

The test mode (Charging) is tested in chamber and all the test results are listed in Section 2.7.

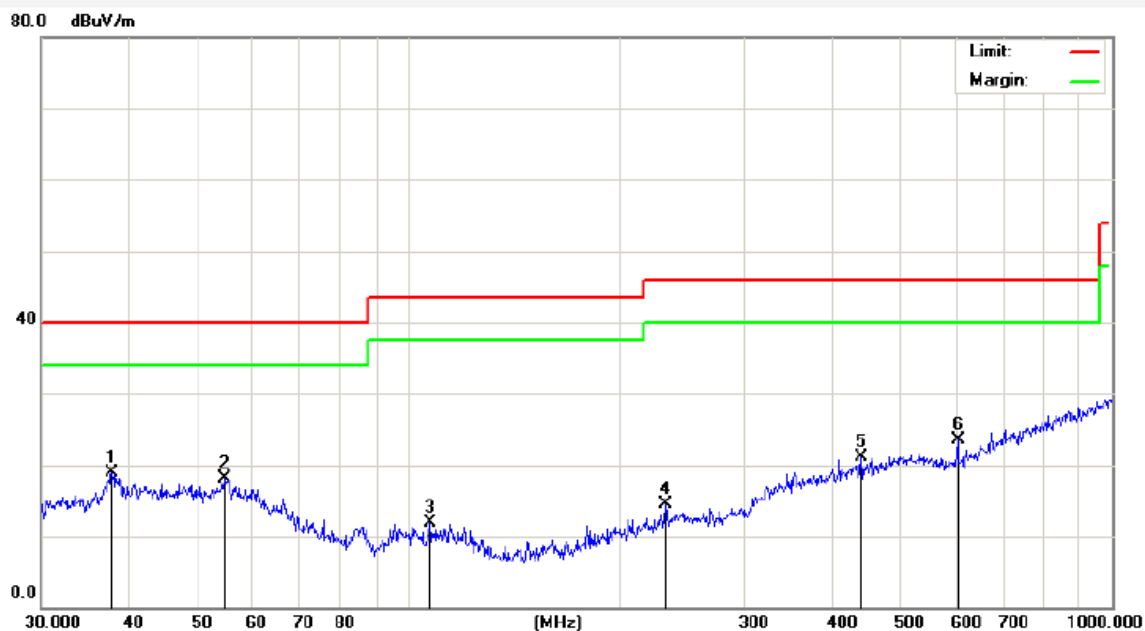
2.7. Radiated Emission Measurement Results

PASS.

The test curves are shown in the following pages.

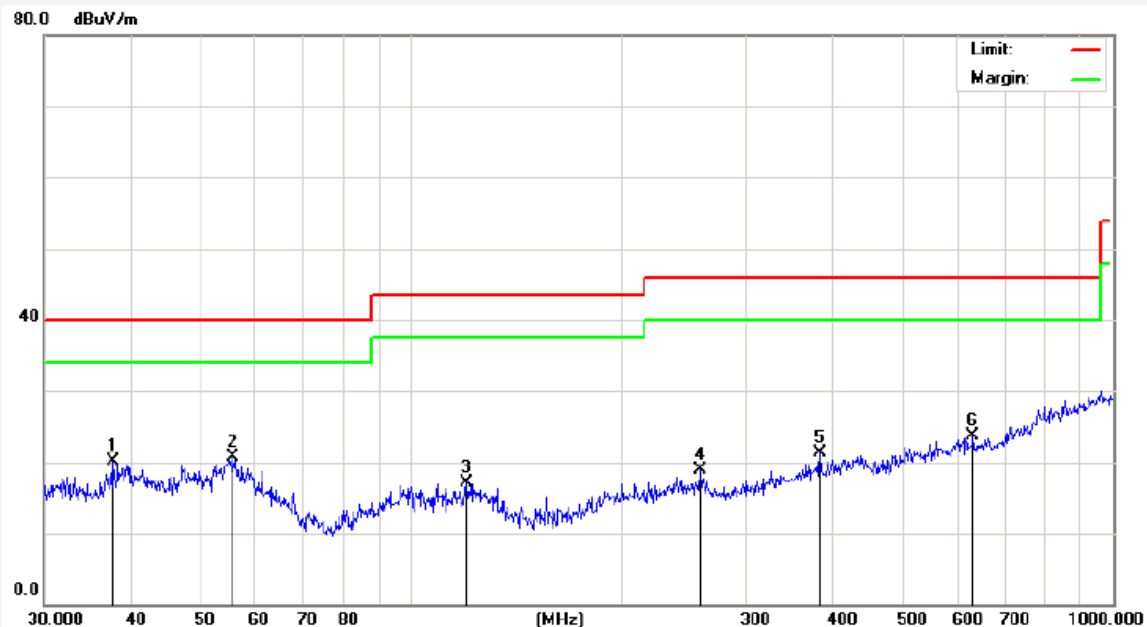
The EUT was tested on (Charging / Discharging) modes, only the worst data of (Charging) is attached in the following pages.

Job No.: AT1404509F Polarization: Horizontal
Standard: (RE)FCC PART15 B _3m Power Source: DC 5V via adapter AC 120V, 60Hz
Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH
Mode: Charging Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	37.8121	34.17	-15.21	18.96	40.00	-21.04	peak			
2	54.6429	33.09	-14.90	18.19	40.00	-21.81	peak			
3	107.1337	32.65	-20.67	11.98	43.50	-31.52	peak			
4	231.7179	33.48	-18.92	14.56	46.00	-31.44	peak			
5	440.1963	33.32	-12.21	21.11	46.00	-24.89	peak			
6	603.5392	34.59	-11.14	23.45	46.00	-22.55	peak			

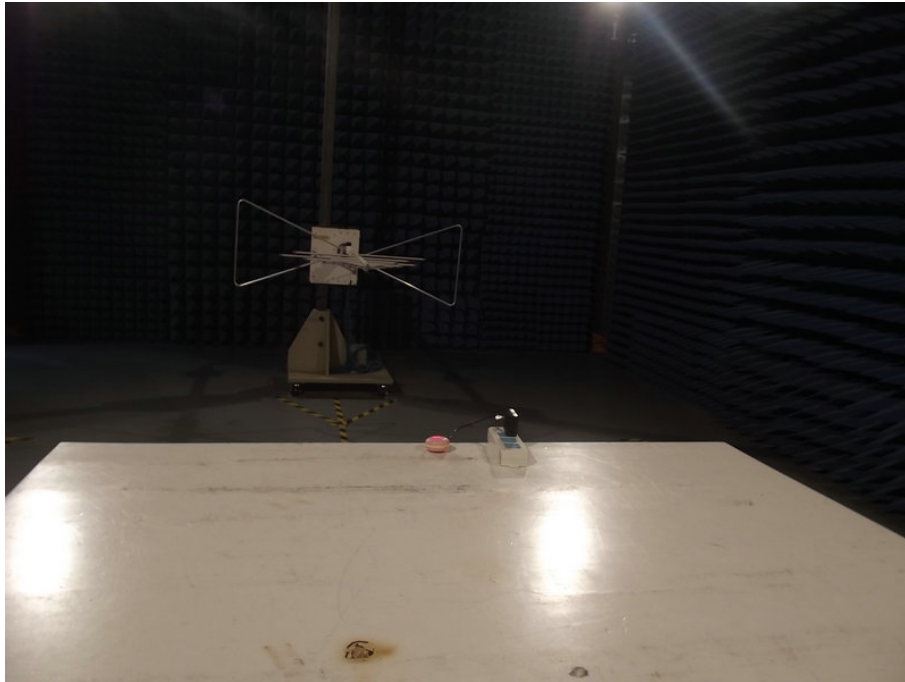
Job No.: AT1404509F Polarization: Vertical
Standard: (RE)FCC PART15 B _3m Power Source: DC 5V via adapter AC 120V, 60Hz
Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH
Mode: Charging Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	37.5479	35.49	-15.31	20.18	40.00	-19.82	peak			
2	55.8047	35.67	-15.00	20.67	40.00	-19.33	peak			
3	119.8556	33.43	-16.32	17.11	43.50	-26.39	peak			
4	258.3264	32.92	-14.00	18.92	46.00	-27.08	peak			
5	382.5879	33.47	-12.21	21.26	46.00	-24.74	peak			
6	631.6884	32.74	-9.00	23.74	46.00	-22.26	peak			

3. PHOTOGRAPH

3.1. Photo of Radiated Emission Test



APPENDIX I (Photos of EUT)

Figure 1
The EUT- Front View



Figure 2
The EUT- Back View



Figure 3
The EUT- Side View

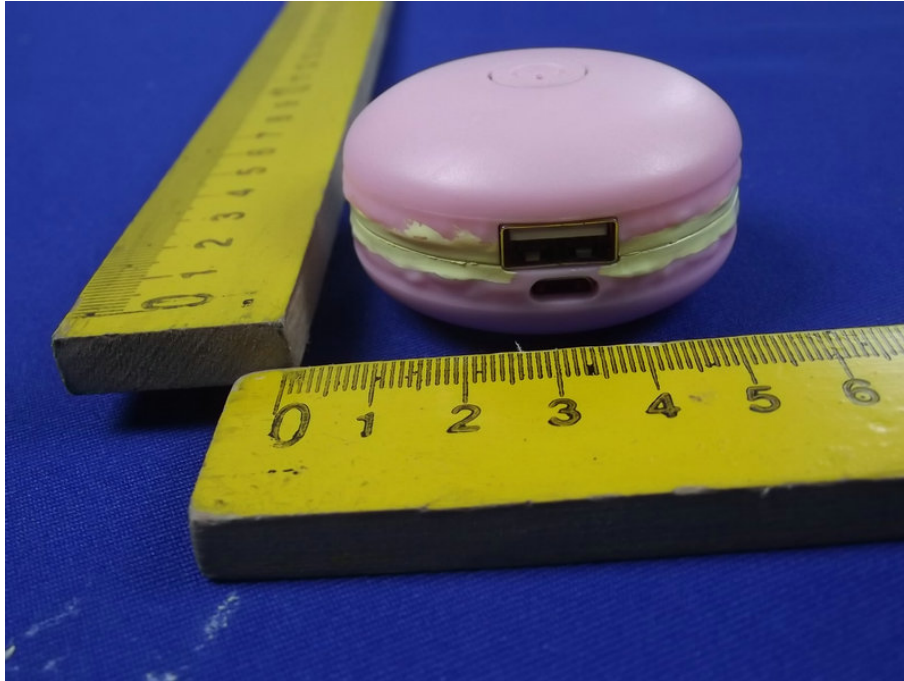


Figure 4
The EUT- Inside View

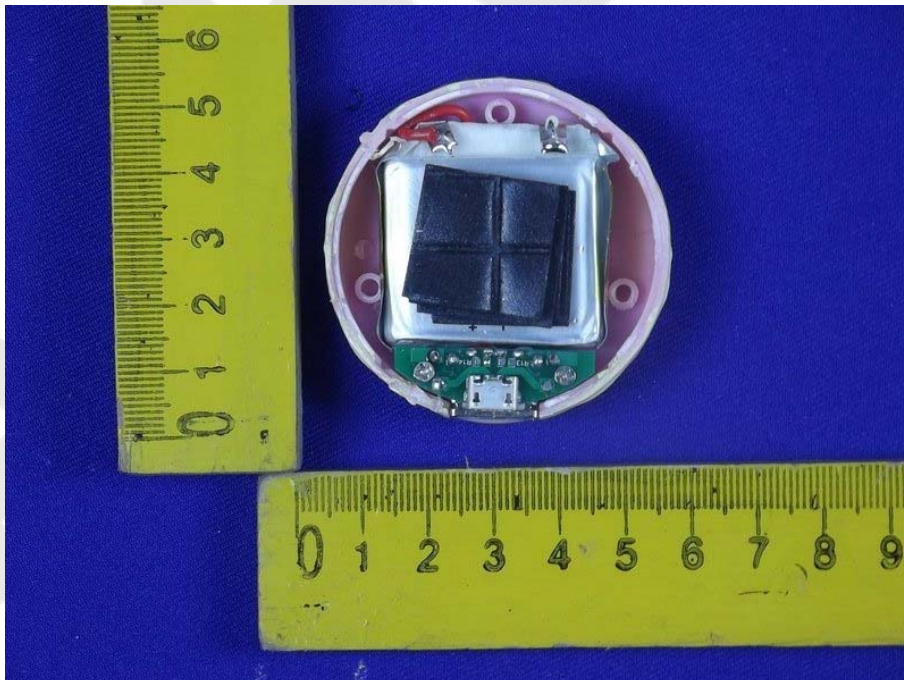


Figure 5
PCB of the EUT -Front View

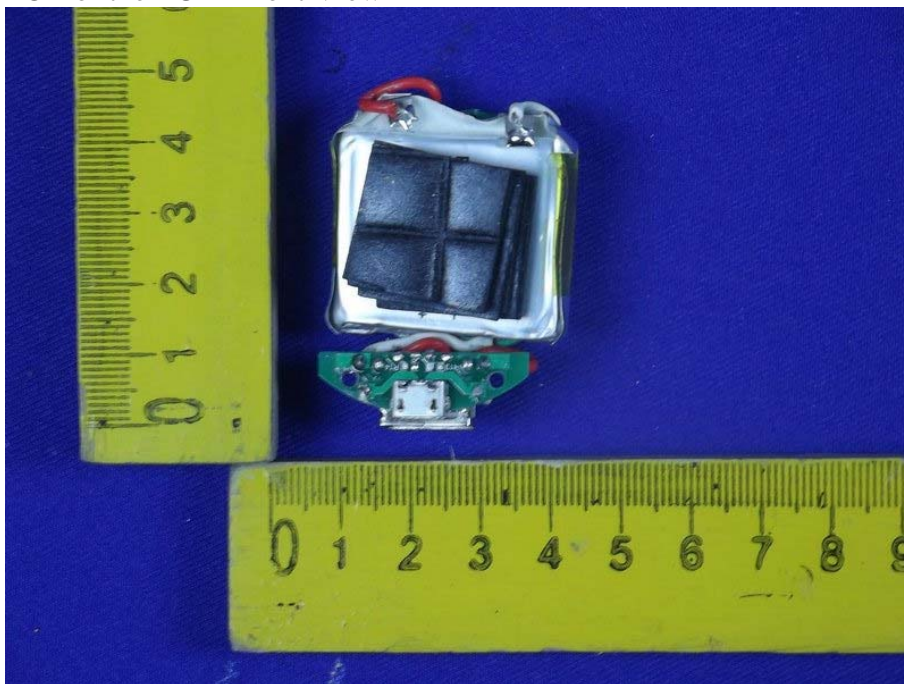


Figure 6
PCB of the EUT -Back View

