TEST REPORT

Applicant:	Flashbay Electronics 1-4/F of Bldg No.3, Bldg No.2, 101-501F of Bldg No.1, Xifengcheng Industrial Park, No.2, Fuyuan Road, Heping Community, Fuhai Street, Baoan District, Shenzhen City, Guangdong Province, P.R. China	**Manufacturer:**	Flashbay Electronics 1-4/F of Bldg No.3, Bldg No.2, 101-501F of Bldg No.1, Xifengcheng Industrial Park, No.2, Fuyuan Road, Heping Community, Fuhai Street, Baoan District, Shenzhen City, Guangdong Province, P.R. China

Sample Description:

Product Name	:	Bluetooth Speakers
Brand Name	:	N/A
Model No.	:	Ace-Y2200, Unison-Y2200
Electrical Rating	:	5Vdc, 1A, Class III apparatus
Mass of equipment	:	0.235 kg
Date Received	:	November 28, 2018
Date Test Conducted	:	November 28, 2018 – September 06, 2019
Report Issue Date	:	September 06, 2019
Standard(s)	:	IEC 62368-1:2014 + Japan deviation
Conclusion	:	PASS

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Prepared by:

Jetter Yang
Project Engineer

Approved by:

Storm Xiong
Senior Project Engineer

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General Remark:

1. When determining of test conclusion, measurement uncertainty of tests have been considered.
2. Instruction sheets and other texts (such as markings, etc) required by the standard should be the official language(s) of the country in which the appliance is to be sold.
3. All the models covered in this report were identical except for brand name and model name and the appearance (only for color, silk-screen of enclosure).
4. The equipment under test (EUT) has been evaluated at maximum ambient (Tma) of +40°C according to the manufacturer's declaration.
5. The equipment is a Bluetooth Speakers supplied by external DC source, whose output comply with PS1.

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TEST REPORT

Revision History:

-NIL

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Marking Plate:

Remark:

1. The manufacturer has the responsibility to put manufacturer name / trade mark and their address, batch number on the equipment. And the importer also has the responsibility to put their name / trade mark and address on the equipment before place the equipment on the market.
2. WEEE logo shall be at least 7 mm in height, CE mark shall be at least 5 mm in height.

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Energy source identification and classification table:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.) (Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.	
Electrically-caused injury (Clause 5): (Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification) Example: +5 V dc input ES1	
Source of electrical energy	**Corresponding classification (ES)**
5Vdc input	ES1
Electrically-caused fire (Clause 6): (Note: List sub-assembly or circuit designation and corresponding energy source classification) Example: Battery pack (maximum 85 watts): PS2	
Source of power or PIS	**Corresponding classification (PS)**
Lithium battery (maximum power: <100W)	PS2
Injury caused by hazardous substances (Clause 7) (Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.) Example: Liquid in filled component Glycol	
Source of hazardous substances	**Corresponding chemical**
Battery (in the EUT)	Electrolyte
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit MS2	
Source of kinetic/mechanical energy	**Corresponding classification (MS)**
Shape edges and corner of product	MS1
Equipment mass- Approximate 0.01kg<7Kg.	MS1
Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.) Example: Hand-held scanner – thermoplastic enclosure TS1	
Source of thermal energy	**Corresponding classification (TS)**
Enclosure surface	TS1
Radiation (Clause 10) (Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1	
Type of radiation	**Corresponding classification (RS)**
LED used for indicating light	RS1

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Overview of employed safeguards:

Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (ES3: Primary Filter circuit)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Ordinary	ES1: secondary parts	N/A	N/A	N/A
6.1	Electrically-caused fire			
Material part (e.g. mouse enclosure)	Energy Source (PS2: 100 Watt circuit)	Safeguards		
		Basic	Supplementary	Reinforced
All combustible materials around all circuit within equipment	PS2: Lithium battery (maximum power: <100W)	No ignition and attainable high temperatu re value	Control fire spread, V-1 or better fire enclosure provided	N/A
7.1	Injury caused by hazardous substances			
Body Part (e.g., skilled)	Energy Source (hazardous material)	Safeguards		
		Basic	Supplementary	Reinforced
Ordinary	Chemical electrolyte	N/A	The metallic enclosure of battery used as container	N/A
8.1	Mechanically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (MS3:High Pressure Lamp)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Ordinary	MS1	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part (e.g., Ordinary)	Energy Source (TS2)	Safeguards		
		Basic	Supplementary	Reinforced
Ordinary	TS1: Accessible surface	N/A	N/A	N/A
10.1	Radiation			
Body Part (e.g., Ordinary)	Energy Source (Output from audio port)	Safeguards		
		Basic	Supplementary	Reinforced
Ordinary	RS1	N/A	N/A	N/A
Supplementary Information: (1) See attached energy source diagram for additional details.				

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(2) “N” – Normal Condition; “A” – Abnormal Condition; “S” Single Fault

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Test Results:

Clause	Title/Description	Result
4	GENERAL REQUIREMENTS	P
5	ELECTRICALLY-CAUSED INJURY	P
6	ELECTRICALLY- CAUSED FIRE	P
7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	P
8	MECHANICALLY-CAUSED INJURY	P
9	THERMAL BURN INJURY	P
10	RADIATION	P
ANNEX B	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS	P
ANNEX C	UV RADIATION	N/A
ANNEX D	TEST GENERATORS	N/A
ANNEX E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS	P
ANNEX F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS	P
ANNEX G	COMPONENTS	N/A
ANNEX H	CRITERIA FOR TELEPHONE RINGING SIGNALS	N/A
ANNEX J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION	N/A
ANNEX K	SAFETY INTERLOCKS	N/A
ANNEX L	DISCONNECT DEVICES	N/A

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TEST REPORT

Test Results:

Clause	Title/Description	Result
ANNEX M	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS	P
ANNEX N	ELECTROCHEMICAL POTENTIALS	N/A
ANNEX O	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
ANNEX P	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS	P
ANNEX Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	N/A
ANNEX R	LIMITED SHORT CIRCUIT TEST	N/A
ANNEX S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
ANNEX T	MECHANICAL STRENGTH TESTS	P
ANNEX U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION	N/A
ANNEX V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)	N/A
--	NATIONAL DIFFEENCE OF JAPAN	P

Note: P=PASS, N/A=NOT APPLICABLE, N/D=NOT DEMANDED, F=FAIL.

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Critical Component List:

Object/part No.	Manufac-turer/trademark	Type/model	Technical data	Standard	Mark(s) of conformity
Plastic Enclosure	LG Chem Huizhou Petrochemical Co Ltd	AF312C	V-0, 70℃ Required thickness: 2.5 mm min. Measured thickness: 2.5 mm min.	UL94	UL
PCB	SHENZHEN XIANGYU PRINTED CIRCUIT CO LTD	XY-1	V-0, 125℃	UL796	UL
Or	Interchangeable	--	Min. rated: V-1, 125℃.min	UL796	UL
Speaker (two provided)	Interchangeable	--	For each 4ohm, 3W	IEC/EN 62368-1	Test in appliance
Lithium battery	Flashbay Electronics	854546	3.7Vdc, 2200mAh Max. charging current: 2200mA; Max. charging voltage: 4.35V Max. charging temperature: 45℃ Max. discharging current: 2200mA	IEC/EN 62133	Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch. Test Report No. BAT181128N045

1) An asterisk indicates a mark which assures the agreed level of surveillance.

2) Interchangeability based on specified rating.

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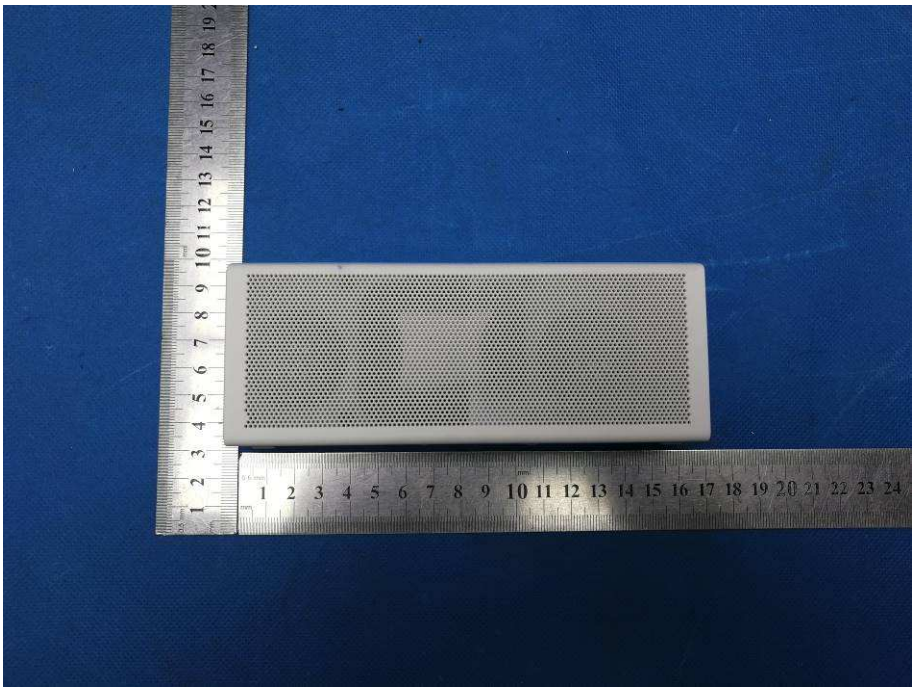
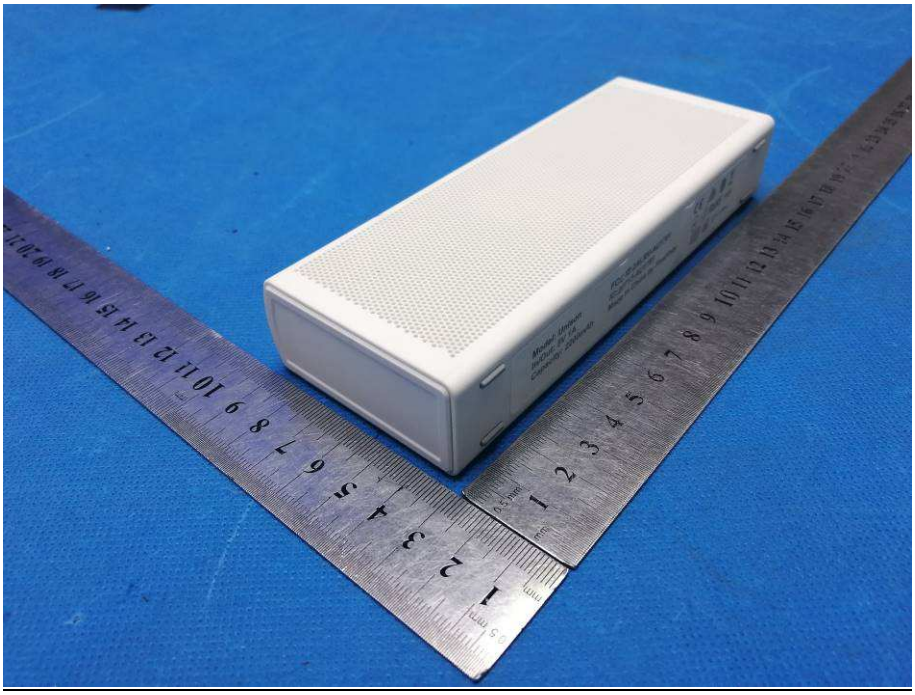
TEST REPORT

Product Photos (Representative):

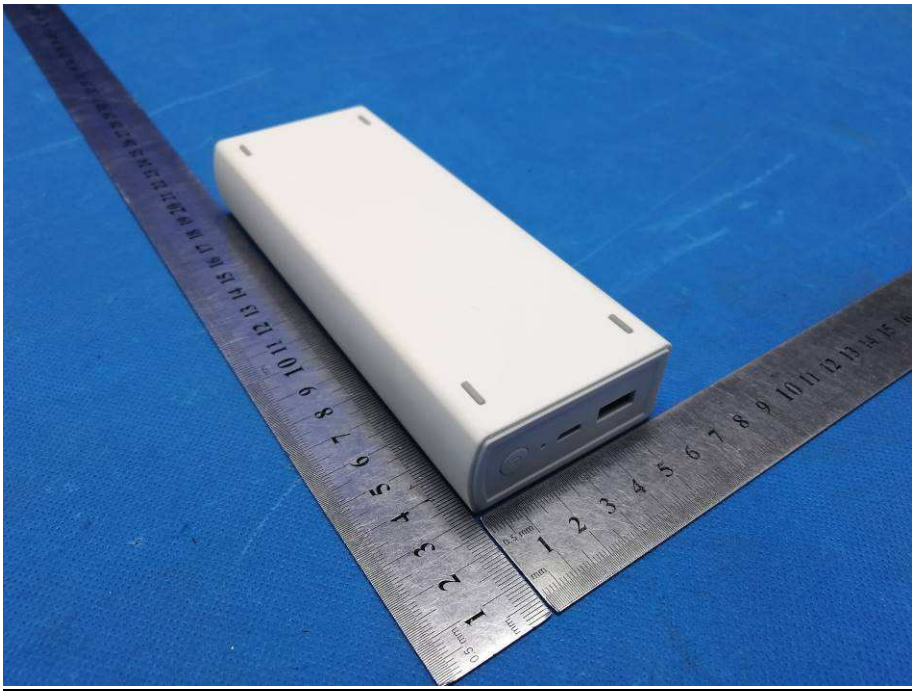


External view-1

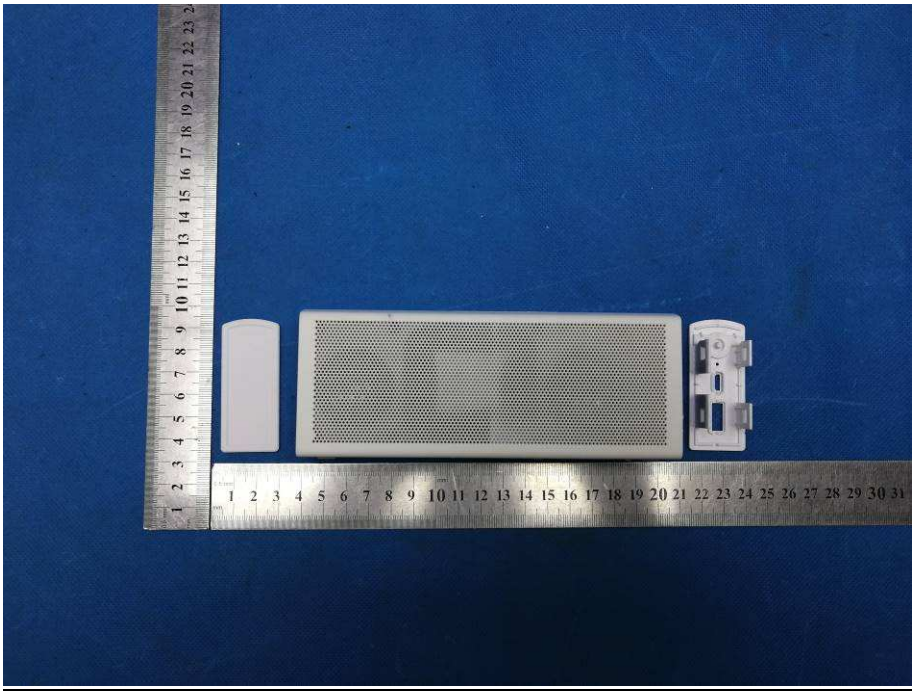


External view-2

TEST REPORT

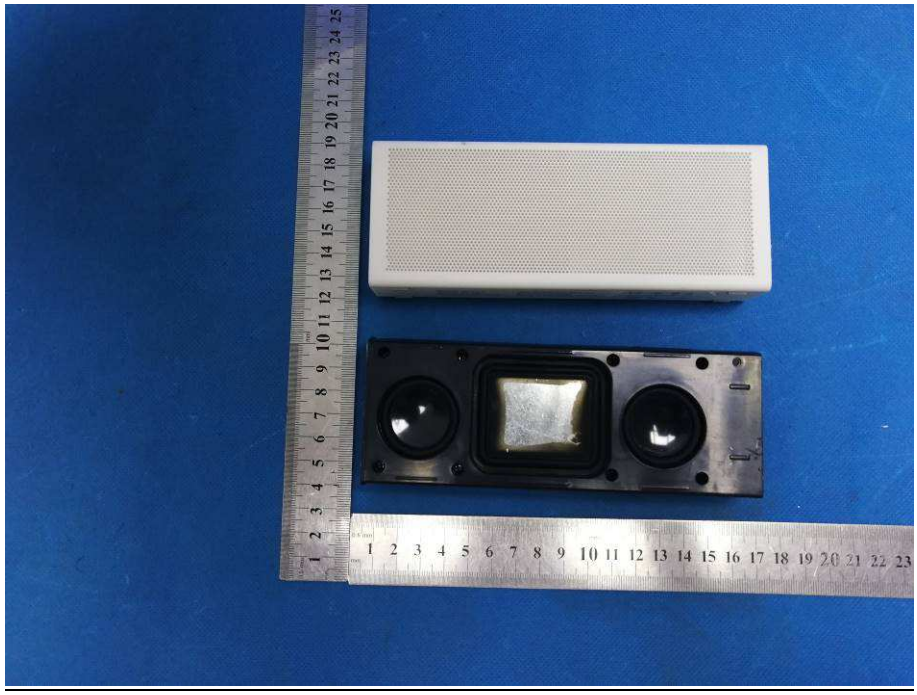


External view-3

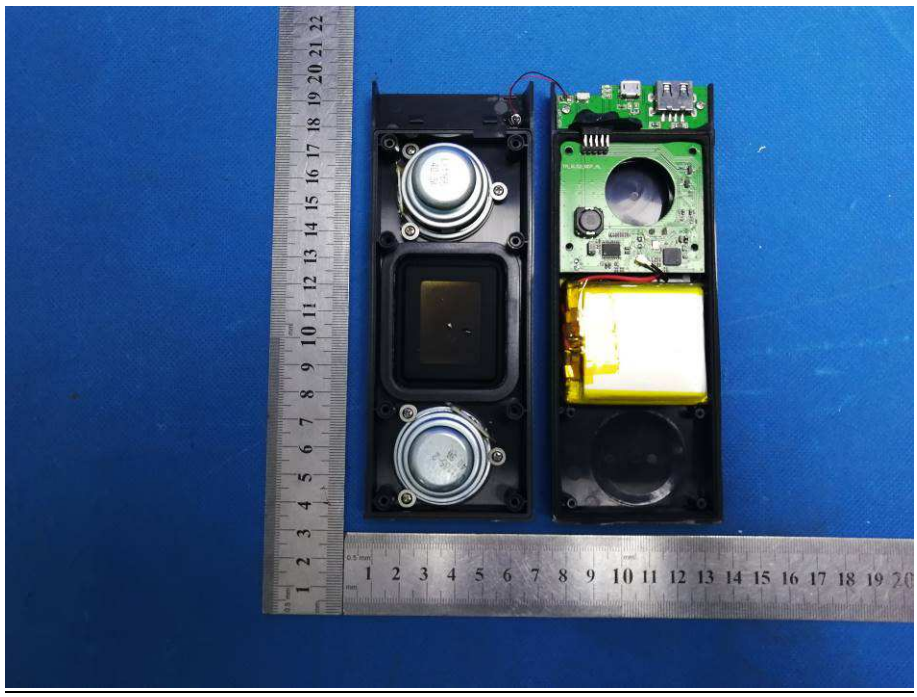


Internal view-1

TEST REPORT

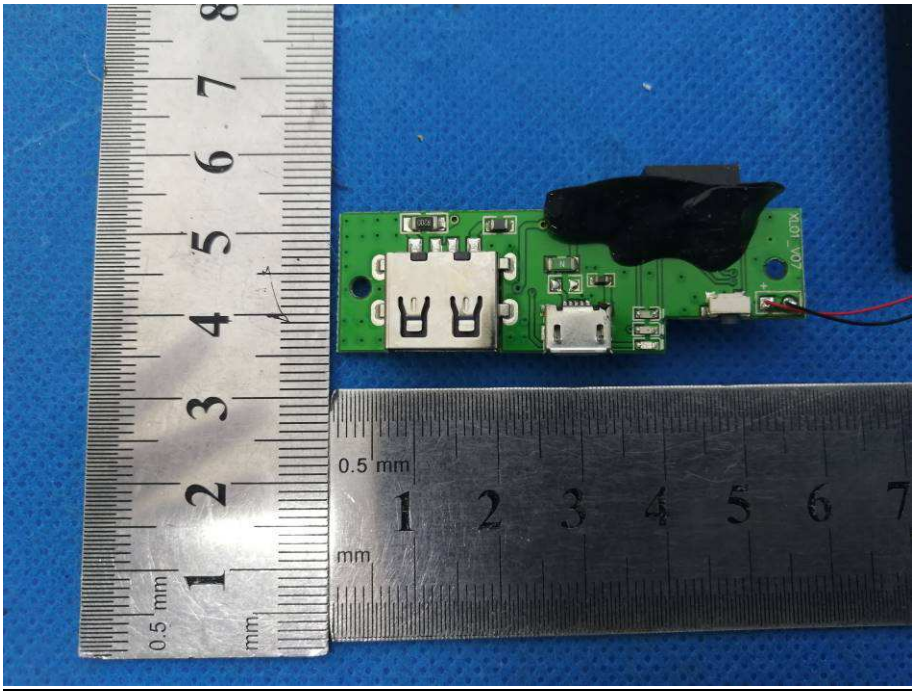


Internal view-2

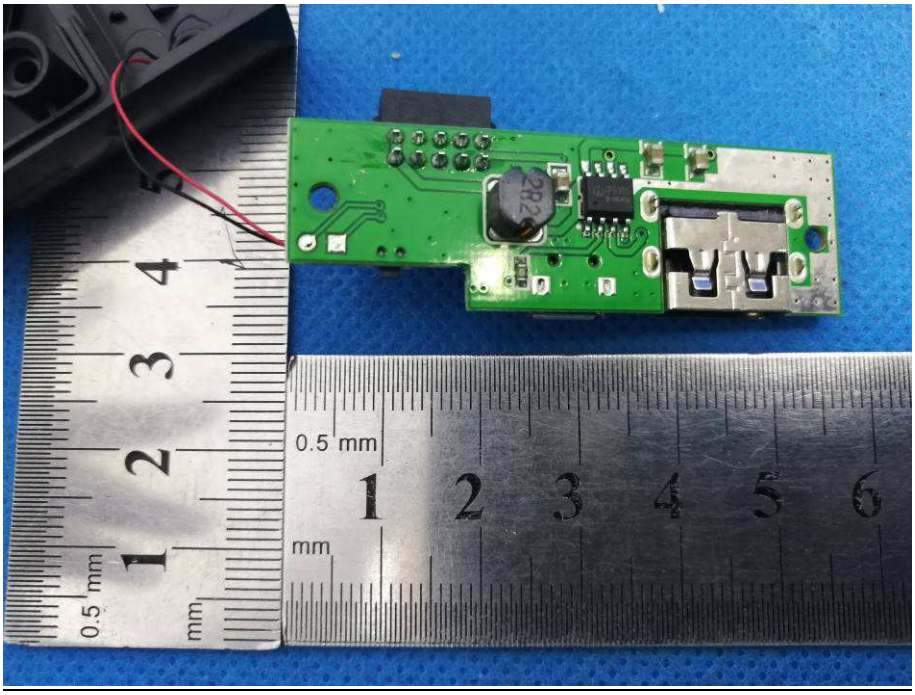


Internal view-3

TEST REPORT

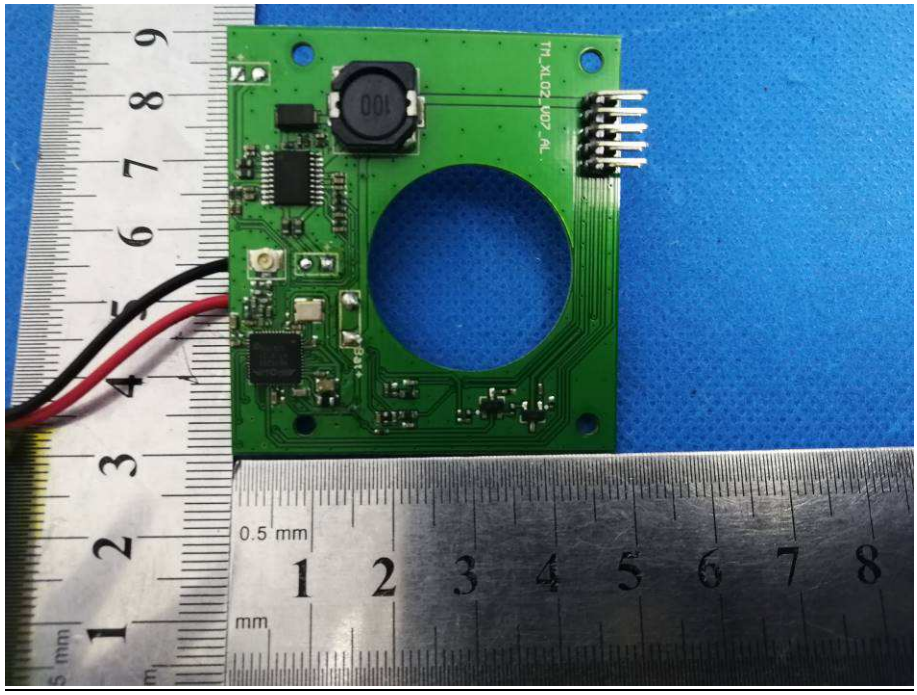


PCB view-1

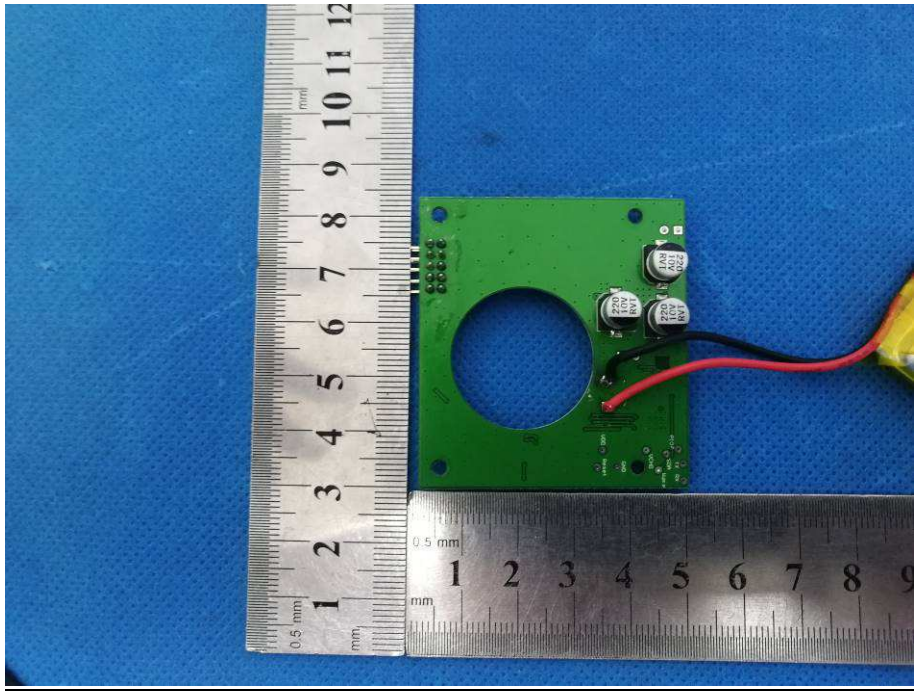


PCB view-2

TEST REPORT

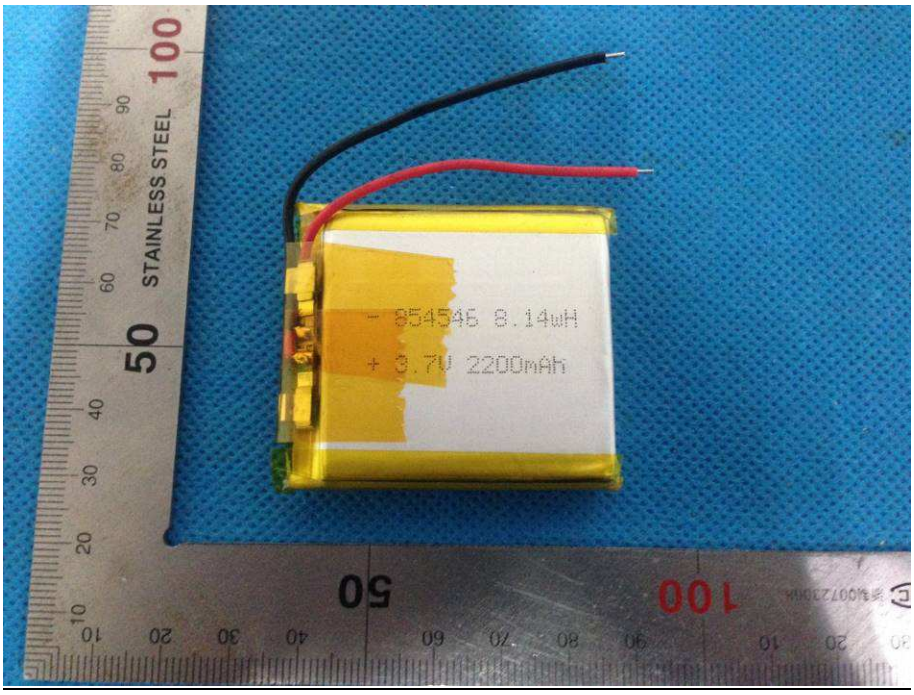


PCB view-3

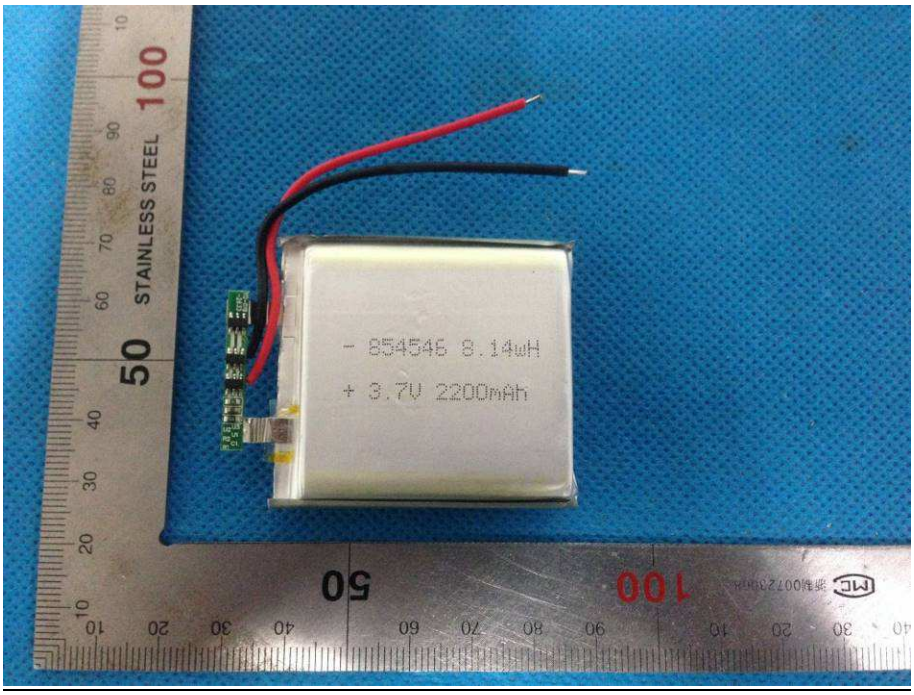


PCB view-4

TEST REPORT

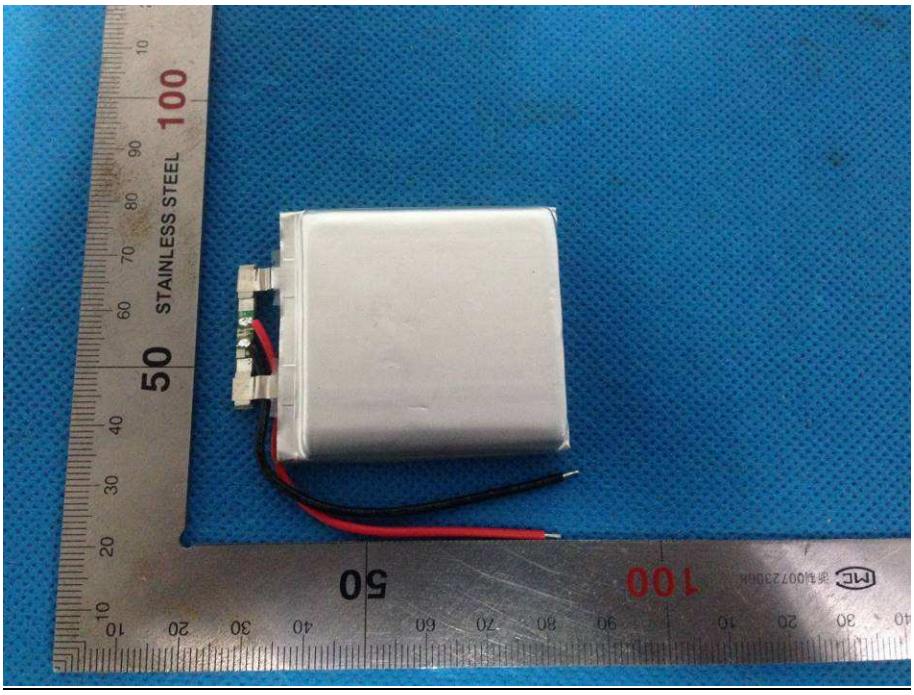


Battery view-1

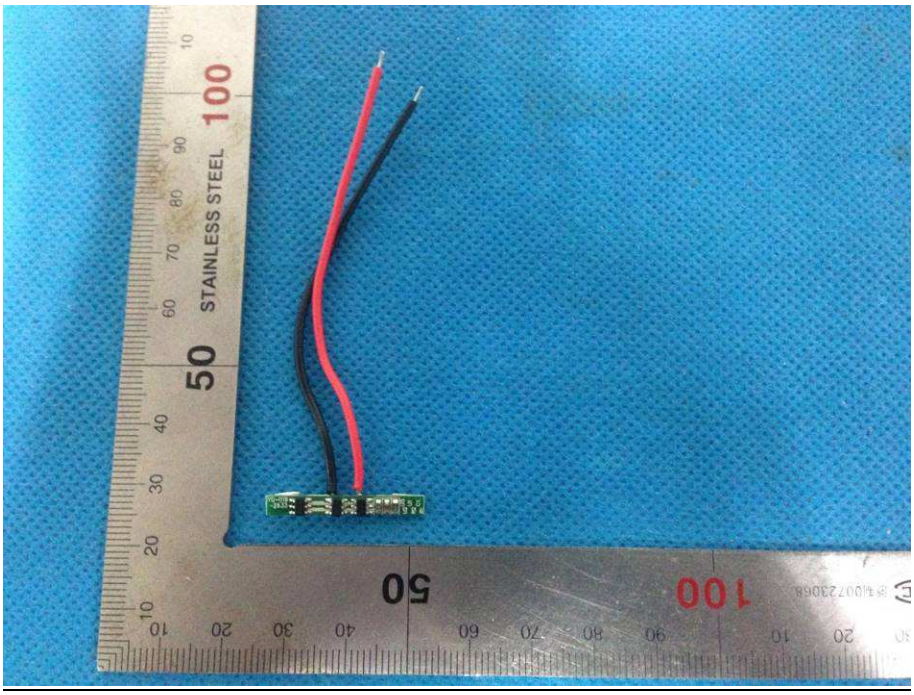


Battery view-2

TEST REPORT

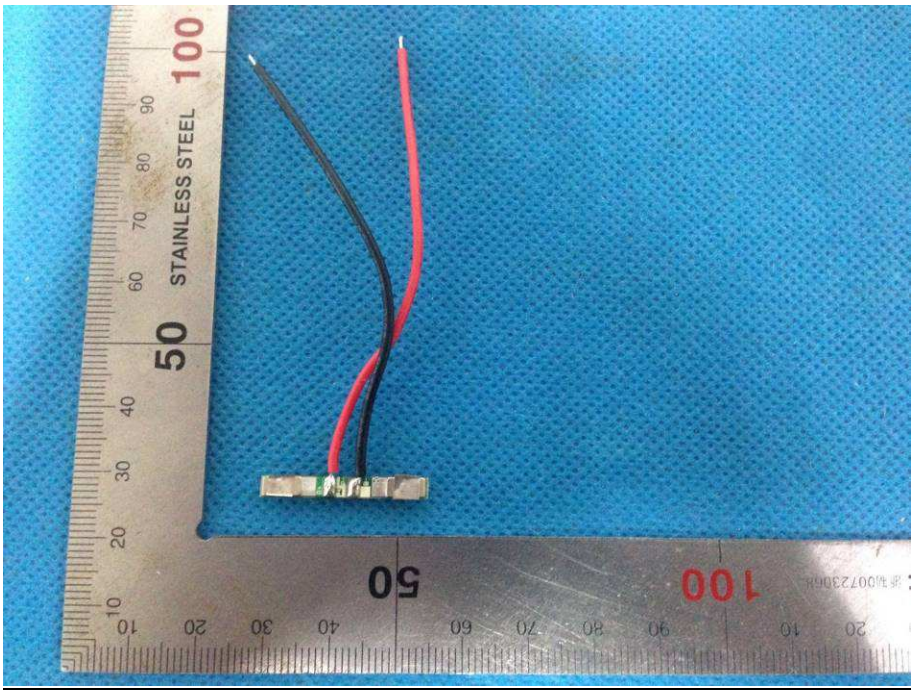


Battery view-3



Battery board view-1

TEST REPORT



Battery board view-2

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