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CNAS L5868

UN38.3测试报告

UN38.3 test report

报告编号 Report No.: MTi230407005-21B1

签发日期 Date of issue: May. 25, 2023

样品名称: 蓝牙耳机充电盒
Sample Name : Bluetooth Earbuds Charging Case

型号: RBE775
Model :

委托方: Raycon Inc.
Client :


委托方地址: 1115 Broadway, Suite 12, New York, NY 10010
Address :

深圳市微测检测有限公司
Shenzhen Microtest Co., Ltd.



ST/SG/AC.10/11/Rev.7 UNITED NATIONS Manual of “Tests and Criteria” 联合国《试验和标准手册》 (第七修订版) (Section 38.3: Lithium batteries) (38.3章节: 锂电池)	
Sample Name.....:	Bluetooth Earbuds Charging Case
样品名称	蓝牙耳机充电盒
Trade Mark.....:	Raycon
商标	
Sample Model.....:	RBE775
样品型号	
Manufacturer.....:	Raycon Inc.
制造商	
Address.....:	1115 Broadway, Suite 12, New York, NY 10010
地址	
Testing Laboratory.....:	Shenzhen Microtest Co., Ltd.
测试实验室	深圳市微测检测有限公司 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinxing Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China. 深圳市宝安区福海街道新和社区福海大道新兴工业园二区7号101
Received Date.....:	2023-05-06
接收日期:	
Tested Date.....:	2023-05-06~2023-05-23
测试日期	
测试方法和判定标准/ Test method and criterion: UNITED NATIONS Manual of “Tests and Criteria” (ST/SG/AC.10/1 1/Rev7, Section38.3). 联合国《试验和标准手册》第七修订版, 38.3标准要求.	
Tested by (signature):	Checked by (signature):
测试 (签名): 	审核 (签名): 
Approved by (signature): 	
批准 (签名): 	

I、Sample Information 样品信息

Bluetooth Earbuds Charging Case 蓝牙耳机充电盒			
Sample Model 样品型号	RBE775	Rated Energy/ Capacity 额定能量/容量	2.96Wh/800mAh
Standard Charge Current 标准充电电流	800mA	Standard Discharge Current 标准放电电流	100mA
 <p> Model: RBE775 Capacity: 3.7V800mAh / 2.96Wh Input: DC 5V/800mA Output: 5V/ 1A Designed in the USA Made in China FCC ID: 2AZOV-RBE775 IC: 27185-RBE775 RDID: D775-23E-0323 </p>			
Cell 电芯			
Sample Model 样品型号	802540	Rated Energy/ Capacity 额定能量/容量	2.96Wh/800mAh
Nominal Voltage 标称电压	3.7V	Cell Shape 电芯形状	Prismatic 棱形
Standard Charge Current 标准充电电流	160mA	Maximum Charge Current 最大充电电流	400mA
Standard Discharge Current 标准放电流	400mA	Maximum Discharge Current 最大放电电流	800mA
Upper Limit Charge Voltage 上限充电电压	4.2V	Cut-off Voltage 放电截止电压	3.0V

Test T.1: Altitude simulation 高度模拟

(1) Test procedure 试验过程

Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hours at ambient temperature (20±5)°C.

试验的电芯或电池应在11.6kPa或更少的气压下存放至少6小时，温度控制在(20±5)°C

(2) Requirement 要求

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

电芯或电池应满足以下要求：无漏液、无排气、无分解、无破裂以及无着火现象的发生。样品试验后开路电压应不低于试验前开路电压的90%，此要求不适用于完全放电状态的电池和电芯。

Data 数据如下表：

No. 编号	Pre-test测试前		After test测试后		Mass loss 质量损失 (%)	Voltage after test/ Voltage pre- test 试验后电压/试验 前电压 (%)	Verdict 结论
	Mass 质量 (g)	Voltage 电压 (V)	Mass 质量 (g)	Voltage 电压 (V)			
C1	53.551	5.09	53.551	5.09	0.000	99.80	PASS/合格
C2	53.457	5.10	53.457	5.10	0.000	100.00	PASS/合格
C3	54.105	5.10	54.105	5.10	0.000	100.00	PASS/合格
C4	54.648	5.10	54.648	5.10	0.000	100.00	PASS/合格
C5	54.236	5.10	54.236	5.10	0.000	100.00	PASS/合格
C6	54.286	5.11	54.282	5.11	0.007	100.00	PASS/合格
C7	54.200	5.10	54.200	5.10	0.000	100.00	PASS/合格
C8	53.482	5.10	53.482	5.09	0.000	99.80	PASS/合格
C9	54.029	5.10	54.024	5.09	0.009	99.80	PASS/合格
C10	53.523	5.10	53.523	5.10	0.000	100.00	PASS/合格

#: No leakage, No venting, No disassembly No rupture and no fire. , ? ire

#: 无漏液、无排气、无分解、无破裂以及无着火现象

No.C1 to C5 five cells at first cycle, in fully charged state;

编号C1-C5 5个在第一个充放电周期后完全充电状态的电池；

No.C6 to C10 five cells after 25 cycles, in fully charged state.

编号C6-C10 5个在第二十五个充放电周期后完全充电状态的电池。

Test T.2: Thermal test 耐热测试

(1) Test procedure 试验过程

Test cells and batteries are to be stored for at least six hours at a test temperature equal to(72 ± 2)°C, followed by storage for at least six hours at a test temperature equal to(-40±2)°C. The maximum time interval between test temperature extremes is 30 minutes. This procedure is to be repeated until 10 total cycles are complete, after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20±5)°C. For large cells and batteries the duration of exposure

to the test temperature extremes should be at least 12 hours.

试验电池和电池组在试验温度等于(72±2)°C下存放至少6小时,接着在试验温度等于(-40±2)°C下存放至少6小时。两个极端温度之间的最大时间间隔为30分钟。这一过程须重复10次,接着将所有电池在环境温度(20±5)°C下存放24小时。对于大型电池和电池组,暴露于极端试验温度的时间至少应为12小时。

(2) Requirement 要求

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

电芯或电池满足以下要求:无漏液、无排气、无分解、无破裂以及无着火现象的发生。样品试验后开路电压应不低于试验前开路电压的90%,此要求不适用于完全放完电状态的电池和电芯。

Data 数据如下表:

No. 编号	Pre-test测试前		After test测试后		Mass loss 质量损失 (%)	Voltage after test/ Voltage pre- test 试验后电压/试验 前电压 (%)	Verdict 结论
	Mass 质量 (g)	Voltage 电压 (V)	Mass 质量 (g)	Voltage 电压 (V)			
C1	53.551	5.09	53.547	5.06	0.007	99.41	PASS/合格
C2	53.457	5.10	53.454	5.08	0.005	99.61	PASS/合格
C3	54.105	5.10	54.101	5.09	0.007	99.80	PASS/合格
C4	54.648	5.10	54.645	5.06	0.005	99.22	PASS/合格
C5	54.236	5.10	54.233	5.09	0.006	99.80	PASS/合格
C6	54.282	5.11	54.280	5.10	0.004	99.80	PASS/合格
C7	54.200	5.10	54.195	5.08	0.009	99.61	PASS/合格
C8	53.482	5.09	53.480	5.07	0.004	99.61	PASS/合格
C9	54.024	5.09	54.021	5.01	0.006	98.39	PASS/合格
C10	53.523	5.10	53.521	5.08	0.004	99.61	PASS/合格

#: No leakage, No venting, No disassembly No rupture and no fire

#: 无漏液、无排气、无分解、无破裂以及无着火现象

No.C1 to C5 five cells at first cycle, in fully charged state;

编号C1-C5 5个在第一个充放电周期后完全充电状态的电池;

No.C6 to C10 five cells after 25 cycles, in fully charged state.

编号C6-C10 5个在第二十五个充放电周期后完全充电状态的电池。

Test T.3: Vibration 振动

(1) Test procedure 试验过程

1 Cells and batteries are firmly secured to the platform of the vibration machine /电芯和电池牢固地安装在振动台的台面上。

2 The vibration :a sinusoidal waveform with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes/振动以正弦波形式,以7Hz增加至200Hz,然后在减少回到7Hz为一个循环,一个循环持续15分钟的对数前移传送。

3 the logarithmic frequency sweep is as follows: from 7Hz a peak acceleration of 1gn is maintained until 18 Hz is reached, The amplitude is then maintained at 0.8mm (1.6mm total excursion) and the frequency increased until a peak acceleration of 8gn occurs (approximately 50Hz), A peak acceleration of 8 gn is then

maintained until the frequency is increased to 200Hz/对数扫频为:从7赫兹开始保持1gn的最大加速度直到频率为18赫兹,然后将振幅保持在0.8毫米(总偏移1.6毫米)并增加频率直到最大加速度达到8g_n(频率约为50赫兹),将最大加速度保持在8g_n直到频率增加到200赫兹。

4 This cycle repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting position of the cell /以振动的其中一个方向必须是垂直样品极性,对每个电芯从三个互相垂直的方向上循环12次,共3个小时。

(2) Requirement 要求

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire during the test and after the test and if the open circuit voltage of each test cell or battery directly after testing in its third perpendicular mounting position is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.电芯或电池满足以下要求:无漏液、无排气、无分解、无破裂以及无着火现象的发生。样品试验后开路电压应不低于试验前开路电压的90%,此要求不适用于完全放完电状态的电池和电芯。

Data 数据如下表:

No. 编号	Pre-test测试前		After test测试后		Mass loss 质量损失 (%)	Voltage after test/ Voltage pre- test 试验后电压/试验 前电压 (%)	Verdict 结论
	Mass 质量(g)	Voltage 电压(V)	Mass 质量(g)	Voltage 电压(V)			
C1	53.547	5.06	53.547	5.06	0.000	100.00	PASS/合格
C2	53.454	5.08	53.453	5.08	0.002	100.00	PASS/合格
C3	54.101	5.09	54.101	5.08	0.000	99.80	PASS/合格
C4	54.645	5.06	54.645	5.06	0.000	100.00	PASS/合格
C5	54.233	5.09	54.233	5.09	0.000	100.00	PASS/合格
C6	54.280	5.10	54.280	5.10	0.000	100.00	PASS/合格
C7	54.195	5.08	54.192	5.06	0.006	99.61	PASS/合格
C8	53.480	5.07	53.480	5.07	0.000	100.00	PASS/合格
C9	54.021	5.01	54.021	5.01	0.000	100.00	PASS/合格
C10	53.521	5.08	53.521	5.08	0.000	100.00	PASS/合格

#: No leakage, No venting, No disassembly No rupture and no fire

#: 无漏液、无排气、无分解、无破裂以及无着火现象

No.C1 to C5 five cells at first cycle, in fully charged state;

编号C1-C5 5个在第一个充放电周期后完全充电状态的电池;

No.C6 to C10 five cells after 25 cycles, in fully charged state.

编号C6-C10 5个在第二十五个充放电周期后完全充电状态的电池。

Test T.4: Shock 机械冲击

(1) Test procedure 试验过程

Test cells and batteries shall be secured to the testing machine by means of a rigid mount which will support all mounting surfaces of each test battery. Each cell or battery shall be subjected to a halfsine shock of peak acceleration of 150gn and pulse duration of 6 milliseconds. Each cell or battery shall be subjected to three shocks in the positive direction followed by three shocks in the negative direction of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks. However, large cells and large batteries shall be subjected to a half-sine shock of peak acceleration of 50gn and pulse duration of 11 milliseconds. Each cell or battery is subjected to three shocks in the positive direction followed by three shocks in the negative direction of each of three mutually perpendicular mounting positions of the cell for a

total of 18 shocks.

以稳固的支架固定住每个电芯和电池样品的全部试验表面。对每个电芯或电池以峰值为150gn的半正弦的加速度冲击，脉冲持续6毫秒，大型电池和大型电池组须经受最大加速度50gn和脉冲持续时间11毫秒的半正弦波冲击。每个电池或电池组须在三个互相垂直的电池安装方位的正方向经受三次冲击，接着在反方向经受三次冲击，总共经受18次冲击。

Battery	Minimum peak acceleration	Pulse duration
Small batteries	150 gn or result of formula $Acceleration(g_n) = \sqrt{\left(\frac{100850}{mass^*}\right)}$ Whichever is smaller	6 ms
Large batteries	50 gn or result of formula $Acceleration(g_n) = \sqrt{\left(\frac{30000}{mass^*}\right)}$ Whichever is smaller	11 ms

* Mass is expressed in kilograms.

(2) Requirement 要求

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

电芯或电池应满足以下要求：无漏液、无排气、无分解、无破裂以及无着火现象的发生。样品试验后开路电压应不低于试验前开路电压的90%，此要求不适用于完全放完电的电池和电芯。

Data 数据如下表：

No. 编号	Pre-test 测试前		After test 测试后		Mass loss 质量损失 (%)	Voltage after test/ Voltage pre- test 试验后电压/试验 前电压 (%)	Verdict 结论
	Mass 质量 (g)	Voltage 电压 (V)	Mass 质量 (g)	Voltage 电压 (V)			
C1	53.547	5.06	53.547	5.06	0.000	100.00	PASS/合格
C2	53.453	5.08	53.453	5.08	0.000	100.00	PASS/合格
C3	54.101	5.08	54.101	5.08	0.000	100.00	PASS/合格
C4	54.645	5.06	54.645	5.06	0.000	100.00	PASS/合格
C5	54.233	5.09	54.231	5.08	0.004	99.80	PASS/合格
C6	54.280	5.10	54.280	5.10	0.000	100.00	PASS/合格
C7	54.192	5.06	54.192	5.06	0.000	100.00	PASS/合格
C8	53.480	5.07	53.480	5.07	0.000	100.00	PASS/合格
C9	54.021	5.01	54.020	5.01	0.002	100.00	PASS/合格
C10	53.521	5.08	53.521	5.08	0.000	100.00	PASS/合格

#: No leakage, No venting, No disassembly No rupture and no fire

#: 无漏液、无排气、无分解、无破裂以及无着火现象

No.C1 to C5 five cells at first cycle, in fully charged state;
编号C1-C5 5个在第一个充放电周期后完全充电状态的电池;
No.C6 to C10 five cells after 25 cycles, in fully charged state.
编号C6-C10 5个在第二十五个充放电周期后完全充电状态的电池。

Test T.5: External short circuit 外部短路

(1) Test procedure 试验过程

The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches $(57\pm 4)^{\circ}\text{C}$ and then the cell or battery shall be subjected to a short circuit condition with a total external resistance of less than 0.1 ohm at $(57\pm 4)^{\circ}\text{C}$. This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to $(57\pm 4)^{\circ}\text{C}$.

试验电芯和电池在 $(57\pm 4)^{\circ}\text{C}$ 的环境温度下, 经受外部电阻小于0.1欧姆的短路试验, 短路时间持续到至少电芯或电池表面温度回复到 $(57\pm 4)^{\circ}\text{C}$ 后1小时才结束。

(2) Requirement 要求

Cells and batteries meet this requirement if their external temperature does not exceed 170°C and there is no disassembly, no rupture and no fire during the test and within six hours after the test.

电芯或电池应满足以下要求: 在试验过程中以及试验后6个小时内不起火、不解体、无破裂、表面温度不超过 170°C 。

Data 数据如下表:

No. 编号	Peak temperature($^{\circ}\text{C}$) 表面最高温度	Verdict 结论
C1	57.3	PASS/合格
C2	57.6	PASS/合格
C3	57.5	PASS/合格
C4	58.0	PASS/合格
C5	57.2	PASS/合格
C6	57.2	PASS/合格
C7	57.6	PASS/合格
C8	57.5	PASS/合格
C9	57.3	PASS/合格
C10	57.6	PASS/合格

#: No leakage, No venting, No disassembly No rupture and no fire

#: 无漏液、无排气、无分解、无破裂以及无着火现象

No.C1 to C5 five cells at first cycle, in fully charged state;
编号C1-C5 5个在第一个充放电周期后完全充电状态的电池;
No.C6 to C10 five cells after 25 cycles, in fully charged state.
编号C6-C10 5个在第二十五个充放电周期后完全充电状态的电池。

Test T.6: Impact /Crush (applicable to cylindrical cells not less than 18.0mm in diameter) / Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18.0mm in diameter) 撞击(适用于直径不小于18.0mm的圆柱形电池)/挤压(适用于棱形、袋状、硬币/纽扣电芯和直径小于18.0mm的圆柱形电芯)

(1) Test procedure 试验过程– Impact 撞击

The sample cell or component cell is to be placed on a flat smooth surface. A (15.8±0.1)mm diameter, at least 6cm long, or the longest dimension of the cell, whichever is greater, Type 316 stainless steel bar is to be placed across the centre of the sample. A (9.1±0.1)kg mass is to be dropped from a height of (61±2.5)cm at the intersection of the bar and sample in a controlled manner using a near frictionless, vertical sliding track or channel with minimal drag on the falling mass. The vertical track or channel used to guide the falling mass shall be oriented 90 degrees from the horizontal supporting surface. The test sample is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the (15.8±0.1)mm diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact.

将试验电池或元件电池放在平坦光滑平面上，将一根直径为(15.8±0.1)mm的长度取6cm或比电池更长的尺寸中的最长那个的不锈钢棒横放在样品中心，将一质量为(9.1±0.1)kg的重锤从(61±2.5)cm的高度跌落到钢棒与试验样品交叉点上。重锤跌落由一个滑摩擦的、对重锤阻力最小的垂直轨道或管道加以控制用以引导落锤沿水平支撑表面呈90度落下。待试电池纵轴与平面平行，与横放在试样中心的直径(15.8±0.1)mm弯曲表面的纵轴垂直。每个样品只经受一次撞击。

(2) Test procedure 试验过程– Crush 挤压

A cell or component cell is to be crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1.5cm/s at the first point of contact. The crushing is to be continued until the first of the three options below is reached.

- (a) The applied force reaches (13±0.78)kN;
- (b) The voltage of the cell drops by at least 100 mV; or
- (c) The cell is deformed by 50% or more of its original thickness.

Once the maximum pressure has been obtained, the voltage drops by 100 mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released.

A prismatic or pouch cell shall be crushed by applying the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces. For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis.

Each test cell or component cell is to be subjected to one crush only. The test sample shall be observed for a further 6 h. The test shall be conducted using test cells or component cells that have not previously been subjected to other tests.

将电芯或电芯组件放在两个平面之间进行挤压。挤压力度逐渐加大，在第一个接触点上的速度大约为1.5cm/s。挤压持续进行，直到出现以下三种情况之一：

- (a) 施加的力量达到(13±0.78)kN;
- (b) 电芯的电压下降至少100mV; 或
- (c) 电芯变形达原始厚度的50%或以上。

棱形或袋状电芯应从最宽的一面施压，纽扣/硬币形电池应从其平坦表面施压，圆柱形电芯应从与纵轴垂直的方向施压。每块电芯或组成电芯只进行一次挤压测试，试验样品应持续观察6h。本试验应用从未进行过其它试验的电芯或电芯组件。

(3) Requirement 要求

Cells and component cells meet this requirement if their external temperature does not exceed 170°C and there is no disassembly and no fire during the test and within six hours after this test.

电芯与电芯组件应满足以下要求：试验过程中及试验结束后6个小时之内不起火、不解体、表面温度不超过

170°C。

Data 数据如下表:

No. 编号	Peak temperature(°C) 表面最高温度	Verdict 结论
C11	24.2	PASS/合格
C12	23.6	PASS/合格
C13	22.5	PASS/合格
C14	23.0	PASS/合格
C15	23.9	PASS/合格
C16	23.5	PASS/合格
C17	25.3	PASS/合格
C18	24.0	PASS/合格
C19	23.6	PASS/合格
C20	24.6	PASS/合格

No.C11 to C15 five cells at first cycle at 50% of the design rated capacity;

编号C11-C15 5个在第一个充放电周期50%额定容量状态的电芯;

No.C16 to C20 five cells after 25 cycles at 50% of the design rated capacity.

编号C16-C20 5个在第二十五个充放电周期50%额定容量状态的电芯。

Test T.8: Forced discharge 强制放电

(1) Test procedure 试验过程

Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer. The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell. Each cell shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere).

在环境温度下, 将电池连接在12V的直流电源上进行强制放电, 此直流电源提供给电芯的初始电流为制造商规定的最大放电电流。对于指定的放电电流则需要和测试电芯串联一个匹配的电阻负载, 每一个电芯的强制放电时间等于额定容量除以试验初始的放电电流。

(2) Requirement 要求

Primary or rechargeable cells meet this requirement if there is no disassembly and no fire during the test and within seven days after the test.

一次或可充电电芯应满足以下要求: 试验样品在试验后7天内不解体、不起火。



Data 数据如下表:

No.编号	Verdict 结论
C21	PASS/合格
C22	PASS/合格
C23	PASS/合格
C24	PASS/合格
C25	PASS/合格
C26	PASS/合格
C27	PASS/合格
C28	PASS/合格
C29	PASS/合格
C30	PASS/合格
C31	PASS/合格
C32	PASS/合格
C33	PASS/合格
C34	PASS/合格
C35	PASS/合格
C36	PASS/合格
C37	PASS/合格
C38	PASS/合格
C39	PASS/合格
C40	PASS/合格

No.C21 to C30 ten cells at first cycle, in fully discharged state states;

编号C21-C30 10个为在第一个交替充电放电周期完全放电状态的电芯;

No.C31 to C40 ten cells after 25cycle, in fully discharged state states.

编号C31-C40 10个为在二十五个交替充电放电周期结束后完全放电状态的电芯。

Photos of The Sample

样品图片



Photo 1



Photo 2

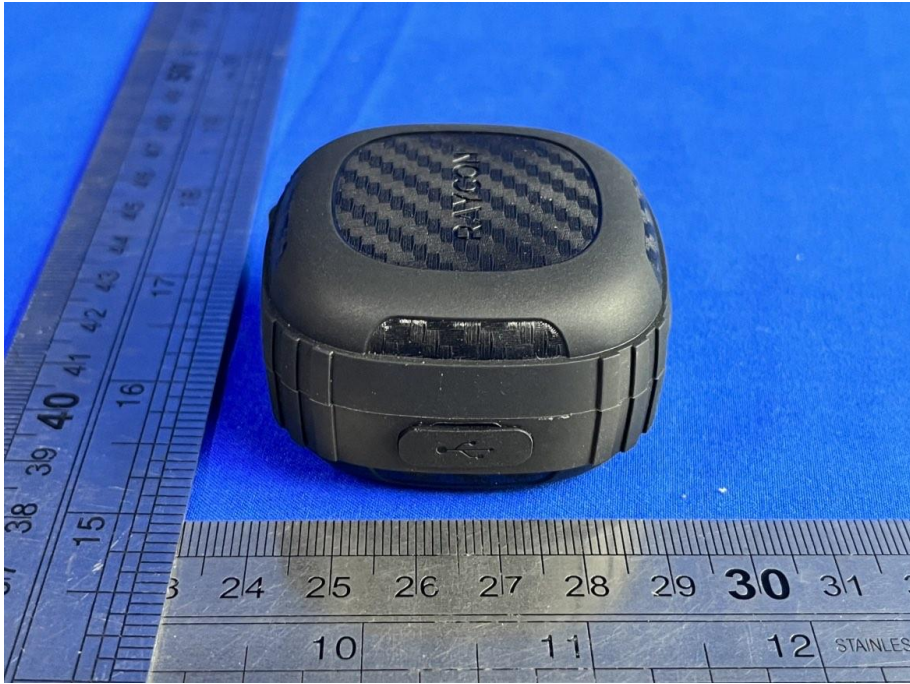


Photo 3

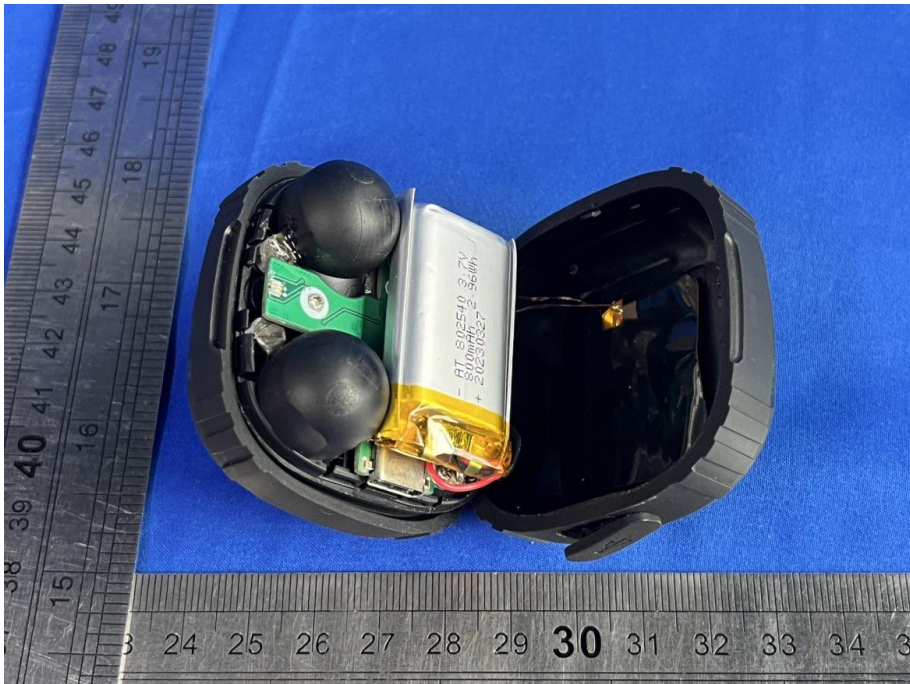


Photo 4

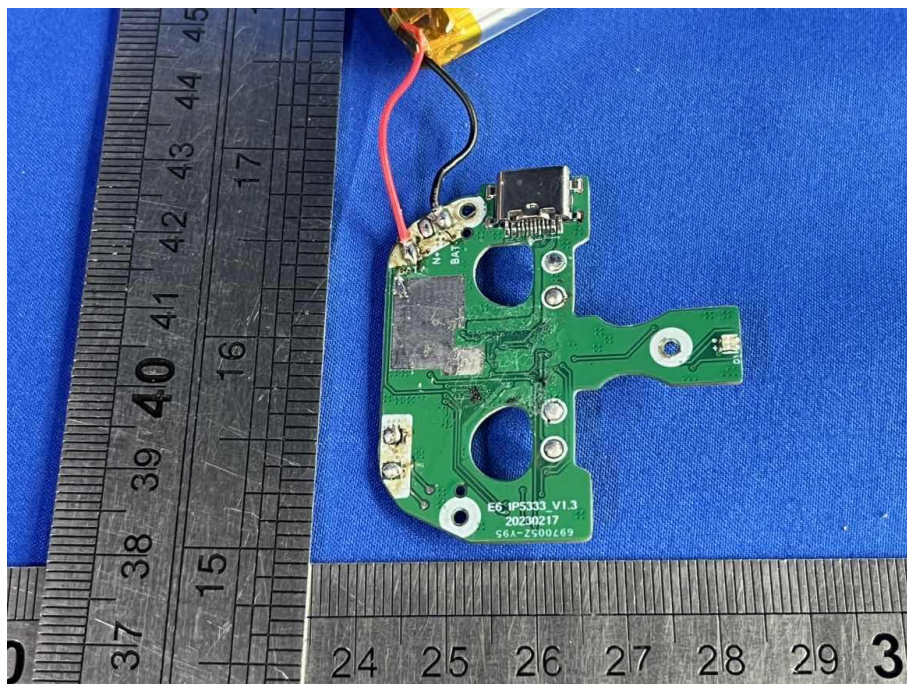


Photo 5

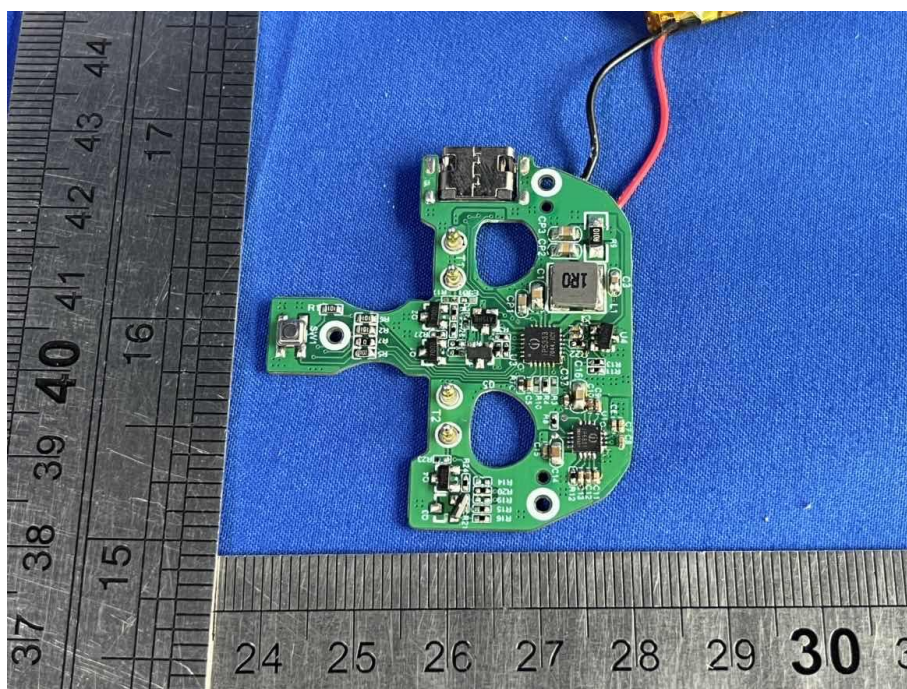


Photo 6

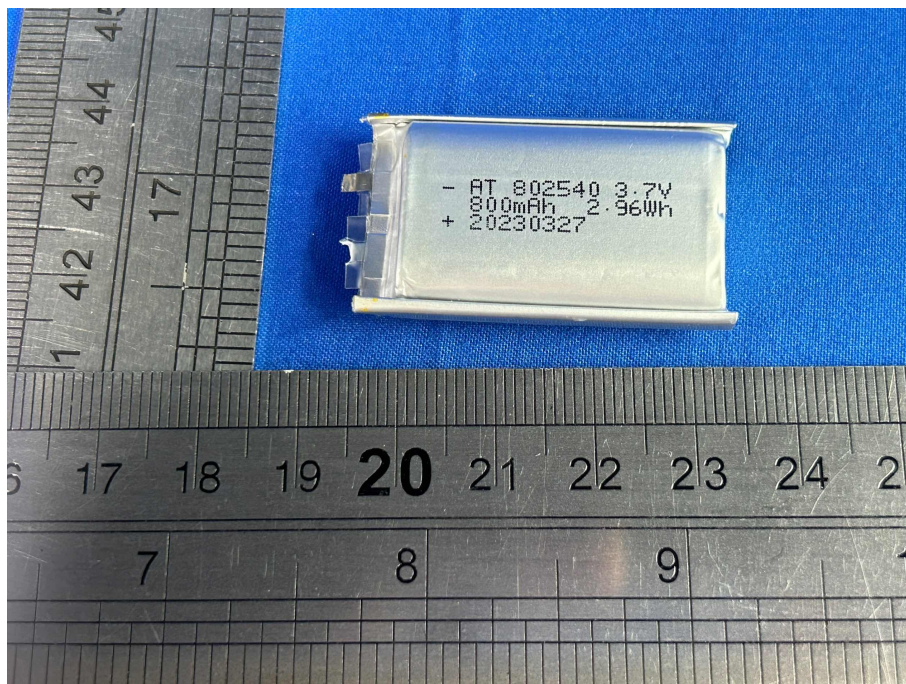


Photo 7

Main Test Equipment

主要测试设备

No.序号	Code编号	Instrument Name 仪器名称
1	MTi-B001	Low Pressure Chamber 低气压试验箱
2	MTi-B002	High-Low Temperature Chamber 高低温试验箱
3	MTi-B006	Hydraulic Shock Tester 液压冲击试验台
4	MTi-B007	Electro-dynamic Vibration Test System 电磁动态振动测试系统
5	MTi-B010	Drop Tester 跌落试验机
6	MTi-B013	Oven 烤箱
7	MTi-B021	Electronic Balance 电子天平
8	MTi-B024	10V/10A Battery Charger System 电池充放电系统
9	MTi-B026	25V/10A Battery Charger System 电池充放电系统
10	MTi-B029	温度记录仪 Temperature Recorder
11	MTi-B031	DC Source 直流稳压电源
12	MTi-B032	DC Source 直流稳压电源
13	MTi-B033	DC Electronic load 直流电子负载
14	MTi-B044	Temperature Recorder 温度记录仪
15	MTi-B049	Multimeter 万用表
16	MTi-B052	Crush Tester 挤压试验机
17	MTi-B053	Impact Tester 撞击试验机
Remark:The above equipment are within the calibration cycle. 备注:以上仪器设备均在计量校准周期内。		

Important Notice

注 意 事 项

1. The test report is invalid without the official stamp of the lab.

本报告无检测单位“检验专用章”无效。

2. The test report is invalid without the signature of ratifier, reviewer.

本报告无批准人、审核人签名无效。

3. Nobody is allowed to photocopy or partly photocopy this report without written permission of the lab.

未经本实验室书面同意，不得部分地复制本报告。

4. The test report is invalid if illegal transfer, altered or tampering in any media form.

本报告私自转让、涂改或以任何媒体形式篡改无效。

5. If any test method is deviation from the designated test method, must be commented in the test data sheet.

如果报告中部分项目相对于测试依据有偏离的，需在当前测试项目中予以说明。

6. Objections to the test report must be submitted to lab within 15 days.

对检测报告若有异议，应于收到报告之日起十五天内向检测单位提出。

7. The test report is valid for the tested sample only.

本报告仅对测试样品有效。

***** End of Report 报告结束*****