



UN38.3 检测报告

UN38.3 Test Report

样品名称:	聚合物锂离子电池组 BLP887
Sample Name:	Rechargeable Li-ion Polymer Battery BLP887
型号规格:	BLP887 7.74V 2440mAh 18.88Wh (Rated)/2500mAh 19.35Wh(Typ)
Model:	
委托单位:	东莞新能德科技有限公司
Applicant:	Dongguan NVT Technology Co.,Ltd.
检测项目:	高度模拟、温度试验、振动、冲击、外部短路、挤压、过度充电、强制放电
Test Items:	Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Crush, Overcharge, Forced discharge
检测类别:	委托检测
Test Category:	Commission test

北京迪捷姆空运技术开发有限公司

Beijing DGM Air Transport Technology Co., Ltd.

报告书使用约定

Terms of the Using of the Report

1. 本公司依据委托人（托运人或其代理人）提供的物品，做出检测并出具此报告书。

The report is issued by DGM China according to the test of the goods and the information of its shipping provided by the applicant (shipper or his agent).

2. 依据检测的需要，本公司要求委托人提供真实、完整的货物样品及资料。

According to the demand of test, DGM China requires the applicant to provide true and exact sample and data of the cargo.

3. 委托人保证申报的物品和/或提供的样品与交运的货物是一致的。

The applicant guarantees that the declared goods and/or the sample who provides should be identical with the contents of cargo that is to be transported.

4. 本公司仅对样品的检测结果负责。

DGM China is only responsible for the test of the sample provided by the applicant.

5. 本报告书经主检员、审核人和批准人签字并加盖本公司印章后生效。

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样品类型 Sample Type	锂离子电池 Li-ion Battery	商标 Trademark	realme
		型号/规格 Model	BLP887 7.74V 2440mAh 18.88Wh (Rated)/2500mAh 19.35Wh(Typ)
委托单位 Applicant	名称 Name	东莞新能德科技有限公司 Dongguan NVT Technology Co.,Ltd.	
	地址 Address	广东东莞东坑镇角社村兴国路 8 号 No.8, XingGuo Middle Road, Jiaoshe Village, Dongkeng town, Dongguan, Guangdong Province, PRC	
来样方式 Means of Receiving	委托方送样 Submitted by applicant	送样日期 Accepted Date	2021-07-18
检测日期 Test Date	2021-07-19~2021-08-09		
检测地点 Test Site	深圳实验室 Shenzhen Laboratory	出证地点 Certificate Site	深圳分公司 Shenzhen Branch
检测项目 Test Items	高度模拟、温度试验、振动、冲击、外部短路、挤压、过度充电、强制放电 Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Crush, Overcharge, Forced discharge		
检测依据 Test Method	联合国《关于危险货物运输的建议书-试验和标准手册》(第 6 版修订一) 38.3 节 UN Recommendations on the Transport of Dangerous Goods Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 /Amend. 1/ Subsection 38.3		
检测结论 Conclusion	根据联合国《关于危险货物运输的建议书-试验和标准手册》(第 6 版修订一) 38.3 节的规定, 该电池样品通过所有项目检测, 符合该条款的性能要求。 The samples have passed all test items of UN Recommendations on the Transport of Dangerous Goods - Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 /Amend. 1/ Subsection 38.3 检测单位(盖章) Test Lab(Stamp) 签发日期(Issue Date): 2021 年 08 月 23 日		

检测:

Tested by:

罗晓峰

审核:

Checked by:

王明

批准:

Approved by:

马海

电池信息 Information for Battery			
电芯生产厂家 Cell manufacturer	宁德新能源科技有限公司 Ningde Amperex Technology Limited		
电芯厂家联系电话 Phone number	//	邮箱 e-mail	//
电芯厂家地址 Address	福建省宁德市蕉城区漳湾镇新港路 1 号 No.1 Xin Gang Road, Zhang Wan Town, Jiao Cheng Zone, Ningde City, FuJian Province352106, P.R.China		
电芯厂家网址 Website	//		
Pack 厂家 Pack manufacturer	东莞新能德科技有限公司 Dongguan NVT Technology Co.,Ltd.		
Pack 厂家联系电话 Phone number	+86-18566933011	邮箱 e-mail	tanxj@nvtpower.com
Pack 厂家地址 Address	广东东莞东坑镇角社村兴国路 8 号 No.8, XingGuo Middle Road, Jiaoshe Village, Dongkeng town, Dongguan, Guangdong Province, PRC		
Pack 厂家网址 Website	//		

电芯参数 Information for cell			
电芯型号 Cell Model	513290		
标称电压 Nominal Voltage	3.87V	额定容量 Rated Capacity	2465mAh(9.54Wh)
标准充电电流 Standard Charging Current	493mA	标准放电电流 Standard discharging Current	493mA
最大连续充电电流 Maximum charging current	7395mA	最大放电电流 Maximum discharge current	3944mA
充电限制电压 Limited charging voltage	4.45V	放电截止电压 Cut-Off voltage	3.0V
外观形状 Appearance	黑色长方体 Black cuboid	电芯尺寸 Cell size	84.4×31.6×5.0mm

电池参数 Information for battery			
标准充电电流 Standard charging current	488mA	标准放电电流 Standard discharging current	488mA
最大连续充电电流 Maximum charging current	6500mA	最大放电电流 Maximum discharge current	2440mA
充电限制电压 Limited charging voltage	8.9V	放电截止电压 Cut-Off voltage	6.0V
规格/型号 Model	BLP887 7.74V 2440mAh 18.88Wh(Rated)/2500mAh 19.35Wh(Typ)	电池尺寸 Battery size	89.8×63.6×5.2mm
组成电芯数量 Number of cell	2 个电芯 Two cells	外观形状 Appearance	黑色长方体 Black cuboid

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序号 No.	检测项目 Test Items	标准要求或标准条款 Standard Requirement or the Clause of Standard	检测结果 Test Result	单项评价 Conclusion	备注 Remark
1	高度模拟 Altitude Simulation	ST/SG/AC.10/11/Rev.6/ Amend. 1/ Subsection 38.3 Test T.1	无泄漏、无排气、无解体、无破裂、无起火， 试验后的开路电压不低于试验前的 90%。 No leakage, no venting, no disassembly, no rupture and no fire. The open circuit voltage of each battery after testing is not less than 90% of its voltage immediately prior to this procedure.	符合 Pass	/
2	温度试验 Thermal Test	ST/SG/AC.10/11/Rev.6/ Amend. 1/ Subsection 38.3 Test T.2	无泄漏、无排气、无解体、无破裂、无起火， 试验后的开路电压不低于试验前的 90%。 No leakage, no venting, no disassembly, no rupture and no fire. The open circuit voltage of each battery after testing is not less than 90% of its voltage immediately prior to this procedure.	符合 Pass	/
3	振动 Vibration	ST/SG/AC.10/11/Rev.6/ Amend. 1/ Subsection 38.3 Test T.3	无泄漏、无排气、无解体、无破裂、无起火， 试验后的开路电压不低于试验前的 90%。 No leakage, no venting, no disassembly, no rupture and no fire. The open circuit voltage of each battery after testing is not less than 90% of its voltage immediately prior to this procedure.	符合 Pass	/
4	冲击 Shock	ST/SG/AC.10/11/Rev.6/ Amend. 1/ Subsection 38.3 Test T.4	无泄漏、无排气、无解体、无破裂、无起火， 试验后的开路电压不低于试验前的 90%。 No leakage, no venting, no disassembly, no rupture and no fire. The open circuit voltage of each battery after testing is not less than 90% of its voltage immediately prior to this procedure.	符合 Pass	/
5	外部短路 External Short Circuit	ST/SG/AC.10/11/Rev.6/ Amend. 1/ Subsection 38.3 Test T.5	外壳温度不超过 170 °C，无解体、无破裂、无 起火。 External temperature does not exceed 170°C. No disassembly, no rupture and no fire.	符合 Pass	/
6	挤压 Crush	ST/SG/AC.10/11/Rev.6/ Amend. 1/ Subsection 38.3 Test T.6	外壳温度不超过 170 °C，无解体、无起火。 External temperature does not exceed 170°C. No disassembly, no fire.	符合 Pass	/
7	过度充电 Overcharge	ST/SG/AC.10/11/Rev.6/ Amend. 1/ Subsection 38.3 Test T.7	无解体、无起火。 No disassembly, no fire.	符合 Pass	/
8	强制放电 Forced Discharge	ST/SG/AC.10/11/Rev.6/ Amend. 1/ Subsection 38.3 Test T.8	无解体、无起火。 No disassembly, no fire.	符合 Pass	/
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T.1: 高度模拟

T.1: Altitude Simulation

样品编号 Sample No.	样品状态 Sample Status	检测前 Pre-test		检测后 After-test				有无泄漏、排气、解体、破裂、起火 Leakage, Venting, Disassembly, Rupture, Fire(Yes/No)
		质量 Mass	开路电压 OCV	质量 Mass	质量损失 Mass Loss	开路电压 OCV	剩余电压 Residual	
		m ₁ (g)	V ₁ (V)	m ₂ (g)	(%)	V ₂ (V)	OCV (%)	
A1	首次完全充电 First cycle fully charged	68.790	8.817	68.789	0.001	8.815	99.98	No
A2	首次完全充电 First cycle fully charged	68.922	8.821	68.919	0.004	8.820	99.99	No
A3	首次完全充电 First cycle fully charged	68.698	8.817	68.697	0.001	8.816	99.99	No
A4	首次完全充电 First cycle fully charged	68.873	8.819	68.871	0.003	8.818	99.99	No
A5	25 次完全充电 25 cycles fully charged	69.088	8.814	69.087	0.001	8.814	100.00	No
A6	25 次完全充电 25 cycles fully charged	68.900	8.816	68.897	0.004	8.814	99.98	No
A7	25 次完全充电 25 cycles fully charged	69.126	8.814	69.124	0.003	8.812	99.98	No
A8	25 次完全充电 25 cycles fully charged	68.688	8.815	68.687	0.001	8.814	99.99	No

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T.2: 温度试验

T.2: Thermal Test

样品编号 Sample No.	样品状态 Sample Status	检测前 Pre-test		检测后 After-test				有无泄漏、排气、 解体、破裂、起火 Leakage, Venting, Disassembly, Rupture, Fire(Yes/No)
		质量 Mass	开路电压 OCV	质量 Mass	质量损失 Mass Loss	开路电压 OCV	剩余电压 Residual	
		m ₁ (g)	V ₁ (V)	m ₂ (g)	(%)	V ₂ (V)	OCV (%)	
A1	首次完全充电 First cycle fully charged	68.789	8.815	68.785	0.006	8.793	99.75	No
A2	首次完全充电 First cycle fully charged	68.919	8.820	68.916	0.004	8.791	99.67	No
A3	首次完全充电 First cycle fully charged	68.697	8.816	68.692	0.007	8.788	99.68	No
A4	首次完全充电 First cycle fully charged	68.871	8.818	68.868	0.004	8.791	99.69	No
-A5	25 次完全充电 25 cycles fully charged	69.087	8.814	69.083	0.006	8.790	99.73	No
A6	25 次完全充电 25 cycles fully charged	68.897	8.814	68.894	0.004	8.787	99.69	No
A7	25 次完全充电 25 cycles fully charged	69.124	8.812	69.120	0.006	8.792	99.77	No
A8	25 次完全充电 25 cycles fully charged	68.687	8.814	68.683	0.006	8.790	99.73	No

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T.3: 振动

T.3: Vibration

样品编号 Sample No.	样品状态 Sample Status	检测前 Pre-test		检测后 After-test				有无泄漏、排气、 解体、破裂、起火 Leakage, Venting, Disassembly, Rupture, Fire(Yes/No)
		质量 Mass m ₁ (g)	开路电压 OCV V ₁ (V)	质量 Mass m ₂ (g)	质量损失 Mass Loss (%)	开路电压 OCV V ₂ (V)	剩余电压 Residual OCV (%)	
A1	首次完全充电 First cycle fully charged	68.785	8.793	68.783	0.003	8.791	99.98	No
A2	首次完全充电 First cycle fully charged	68.916	8.791	68.914	0.003	8.790	99.99	No
A3	首次完全充电 First cycle fully charged	68.692	8.788	68.691	0.001	8.787	99.99	No
A4	首次完全充电 First cycle fully charged	68.868	8.791	68.866	0.003	8.790	99.99	No
A5	25 次完全充电 25 cycles fully charged	69.083	8.790	69.082	0.001	8.788	99.98	No
A6	25 次完全充电 25 cycles fully charged	68.894	8.787	68.891	0.004	8.785	99.98	No
A7	25 次完全充电 25 cycles fully charged	69.120	8.792	69.118	0.003	8.791	99.99	No
A8	25 次完全充电 25 cycles fully charged	68.683	8.790	68.682	0.001	8.788	99.98	No
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T.4: 冲击

T.4: Shock

样品编号 Sample No.	样品状态 Sample Status	检测前 Pre-test		检测后 After-test				有无泄漏、排气、 解体、破裂、起火 Leakage, Venting, Disassembly, Rupture, Fire(Yes/No)
		质量 Mass	开路电压 OCV	质量 Mass	质量损失 Mass Loss	开路电压 OCV	剩余电压 Residual	
		m ₁ (g)	V ₁ (V)	m ₂ (g)	(%)	V ₂ (V)	OCV (%)	
A1	首次完全充电 First cycle fully charged	68.783	8.791	68.782	0.001	8.789	99.98	No
A2	首次完全充电 First cycle fully charged	68.914	8.790	68.914	0.000	8.789	99.99	No
A3	首次完全充电 First cycle fully charged	68.691	8.787	68.689	0.003	8.787	100.00	No
A4	首次完全充电 First cycle fully charged	68.866	8.790	68.864	0.003	8.788	99.98	No
A5	25 次完全充电 25 cycles fully charged	69.082	8.788	69.081	0.001	8.787	99.99	No
A6	25 次完全充电 25 cycles fully charged	68.891	8.785	68.890	0.001	8.785	100.00	No
A7	25 次完全充电 25 cycles fully charged	69.118	8.791	69.116	0.003	8.790	99.99	No
A8	25 次完全充电 25 cycles fully charged	68.682	8.788	68.681	0.001	8.786	99.98	No

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T.5: 外部短路**T.5: External Short Circuit**

样品编号 Sample No	样品状态 Sample Status	样品表面最高温度(℃) Highest External Temperature/℃	有无解体、破裂、起火 Disassembly, Rupture, Fire(Yes/No)
A1	首次完全充电 First cycle fully charged	58.3	No
A2	首次完全充电 First cycle fully charged	58.1	No
A3	首次完全充电 First cycle fully charged	57.7	No
A4	首次完全充电 First cycle fully charged	57.9	No
A5	25 次完全充电 25 cycles fully charged	58.4	No
A6	25 次完全充电 25 cycles fully charged	58.2	No
A7	25 次完全充电 25 cycles fully charged	58.1	No
A8	25 次完全充电 25 cycles fully charged	58.6	No
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T.6: 挤压**T.6: Crush**

样品编号 Sample No.	样品状态 Sample Status	样品表面最高温度(℃) Highest External Temperature/℃	有无解体、起火 Disassembly, Fire(Yes/No)
B1	首次 50%容量 First cycle charged 50% rated capacity	45.3	No
B2	首次 50%容量 First cycle charged 50% rated capacity	43.1	No
B3	首次 50%容量 First cycle charged 50% rated capacity	43.6	No
B4	首次 50%容量 First cycle charged 50% rated capacity	47.6	No
B5	首次 50%容量 First cycle charged 50% rated capacity	45.1	No
B6	25 次 50%容量 25 cycle charged 50% rated capacity	44.5	No
B7	25 次 50%容量 25 cycle charged 50% rated capacity	47.1	No
B8	25 次 50%容量 25 cycle charged 50% rated capacity	48.2	No
B9	25 次 50%容量 25 cycle charged 50% rated capacity	44.5	No
B10	25 次 50%容量 25 cycle charged 50% rated capacity	43.6	No
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T.7: 过度充电

T.7: Overcharge

样品编号 Sample No.	样品状态 Sample Status	有无解体、起火 Disassembly, Fire(Yes/No)
C1	首次完全充电 First cycle fully charged	No
C2	首次完全充电 First cycle fully charged	No
C3	首次完全充电 First cycle fully charged	No
C4	首次完全充电 First cycle fully charged	No
C5	25 次完全充电 25 cycles fully charged	No
C6	25 次完全充电 25 cycles fully charged	No
C7	25 次完全充电 25 cycles fully charged	No
C8	25 次完全充电 25 cycles fully charged	No
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T.8: 强制放电

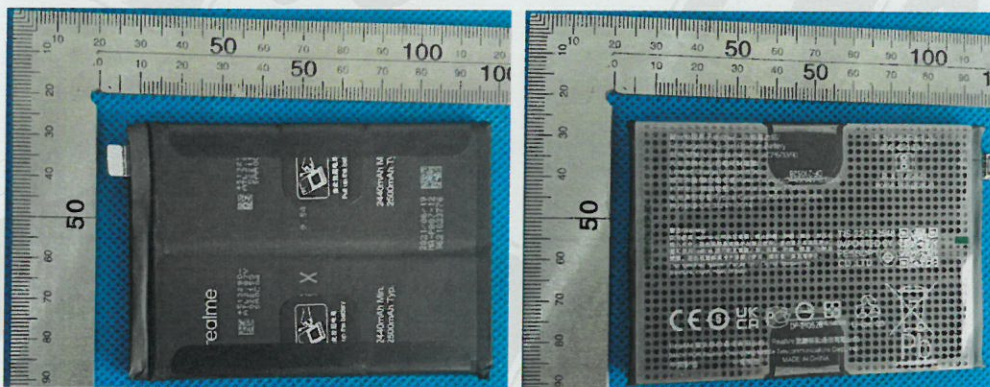
T.8: Forced Discharge

样品编号 Sample No.	样品状态 Sample Status	有无解体、起火 Disassembly, Fire(Yes/No)
D1	首次完全放电 First cycle fully discharged	No
D2	首次完全放电 First cycle fully discharged	No
D3	首次完全放电 First cycle fully discharged	No
D4	首次完全放电 First cycle fully discharged	No
D5	首次完全放电 First cycle fully discharged	No
D6	首次完全放电 First cycle fully discharged	No
D7	首次完全放电 First cycle fully discharged	No
D8	首次完全放电 First cycle fully discharged	No
D9	首次完全放电 First cycle fully discharged	No
D10	首次完全放电 First cycle fully discharged	No
D11	25 次完全放电 25 cycles fully discharged	No
D12	25 次完全放电 25 cycles fully discharged	No
D13	25 次完全放电 25 cycles fully discharged	No
D14	25 次完全放电 25 cycles fully discharged	No
D15	25 次完全放电 25 cycles fully discharged	No
D16	25 次完全放电 25 cycles fully discharged	No
D17	25 次完全放电 25 cycles fully discharged	No
D18	25 次完全放电 25 cycles fully discharged	No
D19	25 次完全放电 25 cycles fully discharged	No
D20	25 次完全放电 25 cycles fully discharged	No
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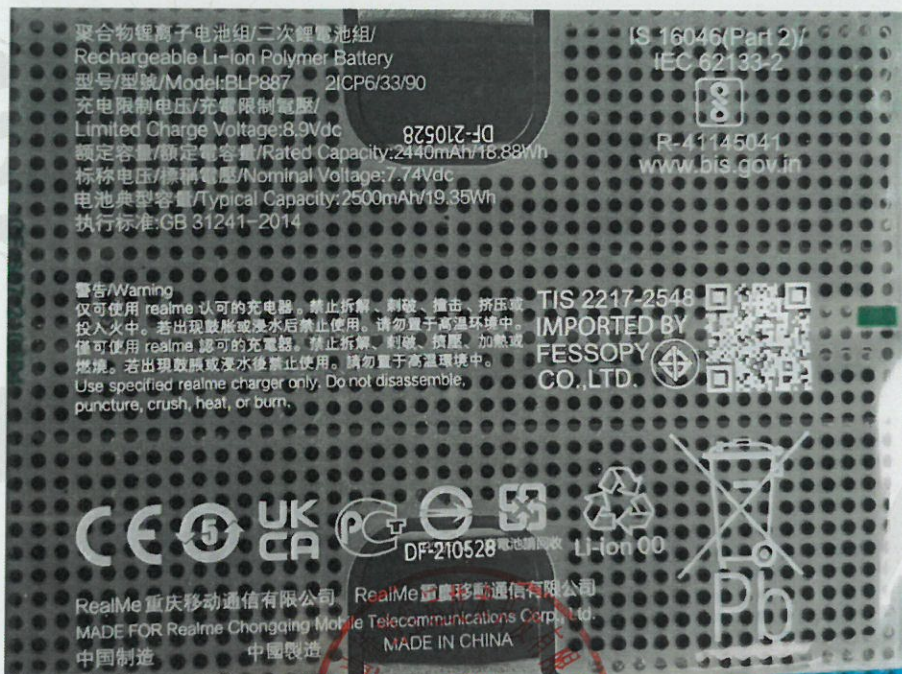
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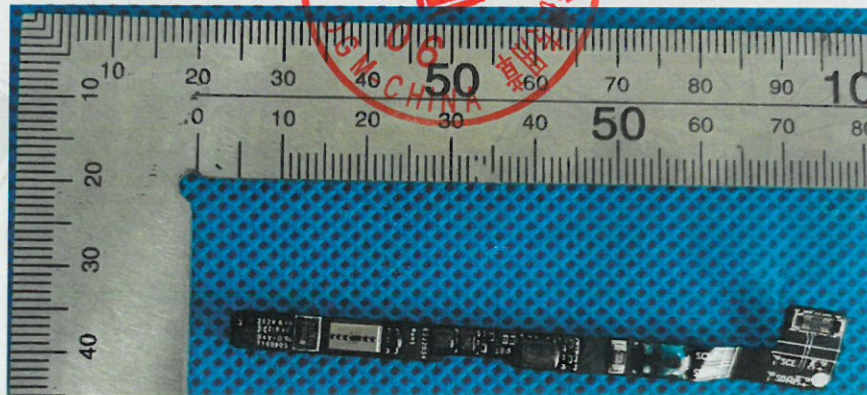
电池图片/Battery pictures

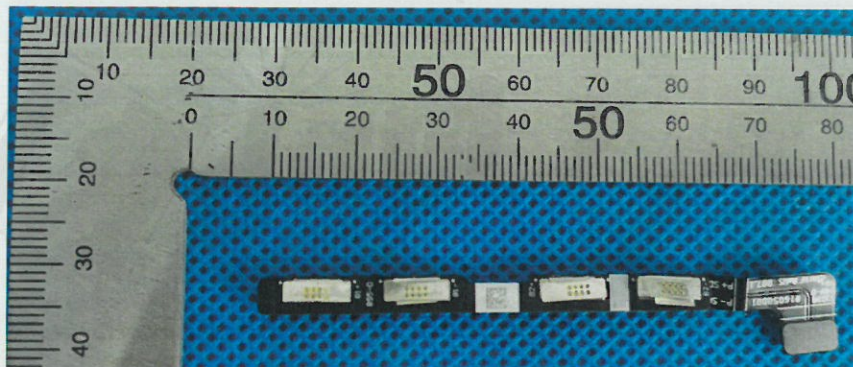


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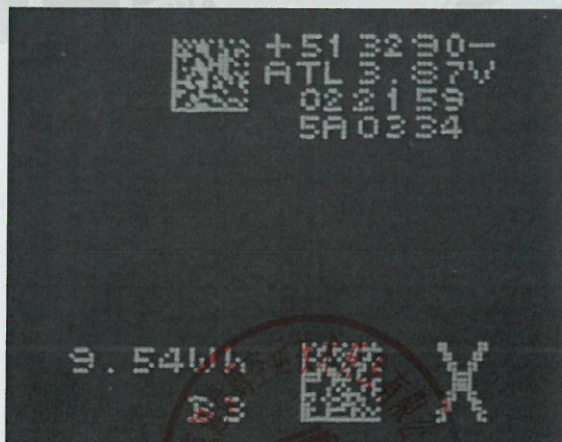
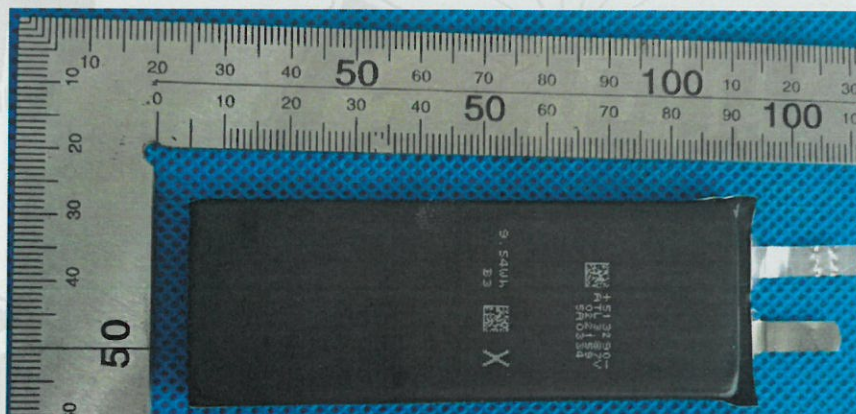


保护装置/Protective devices





内部电芯/Internal cell



* End of the report *