

UN38.3 Test Report

UN38.3 测试报告

样品名称 可充电电池组 Rechargeable Li-ion Battery Pack
ASUS, C31N2315, 11.34V, 42Wh, Capacity 3708mAh (Typical)/
Sample name: 3600mAh (Rated)/ 41Wh/ ATL/ 177(g)

委托单位 新普科技股份有限公司
SIMPLO TECHNOLOGY CO., LTD.
Consignor:

报告版本: V01
Version of Test Report

批准 Approved By	审核 Checked By	编制 Prepared By
经理/报告签署人 Manager/ Authorized Signatory	报告签署人 Authorized Signatory	测试工程师 Test Engineer
		

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样品名称 Sample name	可充电电池组 Rechargeable Li-ion Battery Pack ASUS, C31N2315, 11.34V, 42Wh, Capacity 3708mAh (Typical)/ 3600mAh (Rated)/ 41Wh/ ATL/ 177(g)		
委托单位 Consignor	新普科技股份有限公司 SIMPLO TECHNOLOGY CO., LTD.		
生产单位 Manufacturer	新普科技（重庆）有限公司 SIMPLO TECHNOLOGY (CHONGQING) INC		
检测方法/判定标准 Test method/Criterion	联合国《标准与试验手册》ST/SG/AC.10/11/Rev8, section 38.3 UN Manual of the Tests and Criteria, Eighth revised edition, section 38.3		
样品外观 Appearance	黑色塑料外壳。 Black Plastic film shell.		
样品接受日期 Accepted Date	Cell 2024/12/18	检测起迄日期 Test Date	Cell Test Duration: 2024/12/18~2024/12/31
	Pack 2024/12/30		Pack Test Duration: 2024/12/30~2025/01/17
检测项目 Test Items	高度模拟；热测试；振动；冲击；外短路；挤压；过充电；强制放电； Altitude Simulation；Thermal Test；Vibration；Shock；External Short Circuit； Crush；Overcharge；Forced Discharge；		
检测结论 Conclusion	经检测，该样品试验符合联合国《标准与试验手册》ST/SG/AC.10/11/Rev8, section 38.3 标准要求。 The test results complied with the requirements of UN “Manual of the Tests and Criteria, Eighth revised edition.”, section 38.3		
备注 Remarks			

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报告版本清单 List of report version		
版本 Version	修改内容 Modify content	生效日 Issue date
01	First publish	2025/01/20
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序号 No.	检测项目 Test items	标准要求或标准条款号 Standard requirement or the clause number of the standard	检测结果 Test results	本项结论 Conclusion	备注 Remarks
1	高度模拟 Altitude Simulation	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 试验 T1 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T1	见附表 1 See Appendix 1	合格 Pass	
2	热测试 Thermal Test	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 试验 T2 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T2	见附表 2 See Appendix 2	合格 Pass	
3	振动 Vibration	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 试验 T3 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T3	见附表 3 See Appendix 3	合格 Pass	
4	冲击 Shock	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 试验 T4 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T4	见附表 4 See Appendix 4	合格 Pass	

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5	外短路 External Short Circuit	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 試驗 T5 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T5	见附表 5 See Appendix 5	合格 Pass
6-1	撞击 Impact	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 試驗 T6 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T6	见附表 6-1 See Appendix 6-1	N/A
6-2	挤压 Crush	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 試驗 T6 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T6	见附表 6-2 See Appendix 6-2	合格 Pass
7	过充电 Overcharge	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 試驗 T7 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T7	见附表 7 See Appendix 7	合格 Pass
8	强制放电 Forced Discharge	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 試驗 T8 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T8	见附表 8 See Appendix 8	合格 Pass
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<p>检测环境条件 Test environment condition</p>	<p>环境温度：21.1°C~22.4°C；环境湿度：34%~40%。 Ambient temperature：21.1°C~22.4°C；Ambient humidity：34%~40%。</p>
<p>报告声明 Report statement</p>	<p>测试结果包含符合基于 ST/SG/AC.10/11/Rev8, section 38.3 标准的决策规则的声明。 The test results contain statement of conformity with the decision rules which are based on the standards ST/SG/AC.10/11/Rev8, section 38.3.</p> <p>本试验结果基于标准未规定、客户无需求，不对测量不确定度进行评定。 This test result does not evaluate the measurement uncertainty based on the fact that the standard is not specified and the customer has no demand.</p> <p>本报告中呈现的测试结果仅适用收取的样品。 The test results apply to the samples as received. 实验室对报告中的所有信息负责,客户提供的信息除外。 The laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer.</p>

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附表 1 Appendix 1

序号 No.	1	检测项目 Test items			高度模拟 Altitude Simulation			
		开路电压 OCV/V		剩余 电压 Residual OCV	质量 Mass/g		质量 损失 Mass loss	其他现象 Other Event
试样 编号 Sample No.	样品状态 Sample Status	试验前 Before	试验后 After		试验前 Before	试验后 After		
01	1 Cycle 完全充电 1 Cycle Fully charged	12.755	12.750	99.96%	175.666	175.662	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	12.758	12.753	99.96%	176.034	176.028	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	12.756	12.749	99.95%	175.791	175.786	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	12.754	12.749	99.96%	175.709	175.701	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	12.748	12.742	99.95%	175.876	175.871	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	12.744	12.743	99.99%	175.737	175.731	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	12.739	12.714	99.80%	175.785	175.777	0.00%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	12.732	12.728	99.97%	175.541	175.534	0.00%	O
以下 空白	Blank below							

注：L-泄漏, V-泄气, D-解体, R-破裂, F-起火, O-无泄漏、无泄气、无解体、无破裂且无起火。
Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture and no fire.

附表 2 Appendix 2

序号 No.	2	检测项目 Test items			热测试 Thermal Test			
试样 编号 Sample No.	样品状态 Sample Status	开路电压 OCV/V		剩余 电压 Residual OCV	质量 Mass/g		质量 损失 Mass loss	其他现象 Other Event
		试验前 Before	试验后 After		试验前 Before	试验后 After		
01	1 Cycle 完全充电 1 Cycle Fully charged	12.750	12.554	98.46%	175.662	175.650	0.01%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	12.753	12.711	99.67%	176.028	175.987	0.02%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	12.749	12.701	99.62%	175.786	175.745	0.02%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	12.749	12.705	99.65%	175.701	175.661	0.02%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	12.742	12.675	99.47%	175.871	175.834	0.02%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	12.743	12.662	99.36%	175.731	175.696	0.02%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	12.714	12.640	99.42%	175.777	175.745	0.02%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	12.728	12.682	99.64%	175.534	175.500	0.02%	O
以下 空白	Blank below							

注：L-泄漏, V-泄气, D-解体, R-破裂, F-起火, O-无泄漏、无泄气、无解体、无破裂且无起火。
Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture and no fire.

附表 3 Appendix 3

序号 No.	3	检测项目 Test items			振动 Vibration			
试样 编号 Sample No.	样品状态 Sample Status	开路电压 OCV/V		剩余 电压 Residual OCV	质量 Mass/g		质量 损失 Mass loss	其他现象 Other Event
		试验前 Before	试验后 After		试验前 Before	试验后 After		
01	1 Cycle 完全充电 1 Cycle Fully charged	12.554	12.525	99.77%	175.650	175.638	0.01%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	12.711	12.331	97.01%	175.987	175.970	0.01%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	12.701	12.462	98.12%	175.745	175.737	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	12.705	12.480	98.23%	175.661	175.650	0.01%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	12.675	12.482	98.48%	175.834	175.822	0.01%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	12.662	12.481	98.57%	175.696	175.685	0.01%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	12.640	12.446	98.47%	175.745	175.733	0.01%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	12.682	12.460	98.25%	175.500	175.489	0.01%	O
以下 空白	Blank below							

注：L-泄漏, V-泄气, D-解体, R-破裂, F-起火, O-无泄漏、无泄气、无解体、无破裂且无起火。

Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture and no fire.

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附表 4 Appendix 4

序号 No.	4	检测项目 Test items			冲击 Shock			
试样 编号 Sample No.	样品状态 Sample Status	开路电压 OCV/V		剩余 电压 Residual OCV	质量 Mass/g		质量 损失 Mass loss	其他现象 Other Event
		试验前 Before	试验后 After		试验前 Before	试验后 After		
01	1 Cycle 完全充电 1 Cycle Fully charged	12.520	12.502	99.86%	175.633	175.629	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	12.326	12.315	99.91%	175.966	175.960	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	12.455	12.434	99.83%	175.734	175.728	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	12.474	12.451	99.82%	175.646	175.641	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	12.476	12.454	99.82%	175.818	175.813	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	12.475	12.442	99.74%	175.680	175.676	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	12.442	12.418	99.81%	175.728	175.724	0.00%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	12.455	12.437	99.86%	175.485	175.480	0.00%	O
以下 空白	Blank below							

注：L-泄漏, V-泄气, D-解体, R-破裂, F-起火, O-无泄漏、无泄气、无解体、无破裂且无起火。
Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture and no fire.

附表 5 Appendix 5

序号 No.	5	检测项目 Test items	外短路 External Short Circuit
试样 编号 Sample No.	样品状态 Sample Status	表面最高温度 Max. External Temperature/°C (<170°C)	其他现象 Other Event
01	1 Cycle 完全充电 1 Cycle Fully charged	59.0	O
02	1 Cycle 完全充电 1 Cycle Fully charged	58.8	O
03	1 Cycle 完全充电 1 Cycle Fully charged	58.8	O
04	1 Cycle 完全充电 1 Cycle Fully charged	60.8	O
05	25 Cycles 完全充电 25 Cycles Fully charged	58.7	O
06	25 Cycles 完全充电 25 Cycles Fully charged	59.0	O
07	25 Cycles 完全充电 25 Cycles Fully charged	59.0	O
08	25 Cycles 完全充电 25 Cycles Fully charged	58.8	O
以下 空白	Blank below		

注：D-解体, R-破裂, F-起火, O-无解体、无破裂且无起火

Note: D-Disassembly, R-Rupture, F-Fire, O-No disassembly, no rupture and no fire.

附表 6-1 Appendix 6-1

序号 No.	6-1	检测项目 Test items	撞击 Impact
试样编号 Sample No.	样品状态 Sample Status	表面最高温度 Max. External Temperature/°C (<170°C)	其他现象 Other Event
01 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
02 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
03 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
04 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
05 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
06 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	N/A	N/A
07 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	N/A	N/A
08 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	N/A	N/A
09 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	N/A	N/A
10 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	N/A	N/A
以下 空白	Blank below		
注： D-解体, F-起火, O-无解体且无起火。 Note: D-Disassembly, F-Fire, O-No disassembly and no fire.			

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附表 6-2 Appendix 6-2

序号 No.	6-2	检测项目 Test items	挤压 Crush
试样编号 Sample No.	样品状态 Sample Status	表面最高温度 Max. External Temperature/°C (<170°C)	其他现象 Other Event
01 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	23.8	O
02 C	1Cycle 50% 容量 1 Cycle 50% Capacity	23.1	O
03 C	1Cycle 50% 容量 1 Cycle 50% Capacity	23.4	O
04 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	23.3	O
05 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	23.3	O
06 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	23.3	O
07 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	23.5	O
08 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	23.4	O
09 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	23.1	O
10 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	23.5	O
以下 空白	Blank below		
注： D-解体, F-起火, O-无解体且无起火 Note: D-Disassembly, F-Fire, O-No disassembly and no fire.			

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附表 7 Appendix 7

序号 No.	7	检测项目 Test items	过充电 Overcharge
试样编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
09	1 Cycle 完全充电 1 Cycle Fully charged		O
10	1 Cycle 完全充电 1 Cycle Fully charged		O
11	1 Cycle 完全充电 1 Cycle Fully charged		O
12	1 Cycle 完全充电 1 Cycle Fully charged		O
13	25 Cycles 完全充电 25 Cycles Fully charged		O
14	25 Cycles 完全充电 25 Cycles Fully charged		O
15	25 Cycles 完全充电 25 Cycles Fully charged		O
16	25 Cycles 完全充电 25 Cycles Fully charged		O
以下 空白	Blank below		
注： D-解体, F-起火, O-无解体且无起火 Note: D-Disassembly, F-Fire, O-No disassembly and no fire.			

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附表 8 Appendix 8

序号 No.	8	检测项目 Test items	强制放电 Forced Discharge
试样编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
11 C	1 Cycle 完全放电 1 Cycle Fully Discharged		O
12 C	1 Cycle 完全放电 1 Cycle Fully Discharged		O
13 C	1 Cycle 完全放电 1 Cycle Fully Discharged		O
14 C	1 Cycle 完全放电 1 Cycle Fully Discharged		O
15 C	1 Cycle 完全放电 1 Cycle Fully Discharged		O
16 C	1 Cycle 完全放电 1 Cycle Fully Discharged		O
17 C	1 Cycle 完全放电 1 Cycle Fully Discharged		O
18 C	1 Cycle 完全放电 1 Cycle Fully Discharged		O
19 C	1 Cycle 完全放电 1 Cycle Fully Discharged		O
20 C	1 Cycle 完全放电 1 Cycle Fully Discharged		O
21 C	25 Cycles 完全放电 25 Cycles Fully Discharged		O
22 C	25 Cycles 完全放电 25 Cycles Fully Discharged		O
23 C	25 Cycles 完全放电 25 Cycles Fully Discharged		O
24 C	25 Cycles 完全放电 25 Cycles Fully Discharged		O
25 C	25 Cycles 完全放电 25 Cycles Fully Discharged		O
26 C	25 Cycles 完全放电 25 Cycles Fully Discharged		O
27 C	25 Cycles 完全放电 25 Cycles Fully Discharged		O
28 C	25 Cycles 完全放电 25 Cycles Fully Discharged		O
29 C	25 Cycles 完全放电 25 Cycles Fully Discharged		O
30 C	25 Cycles 完全放电 25 Cycles Fully Discharged		O
以下空白	Blank below		

注： D-解体, F-起火, O-无解体且无起火

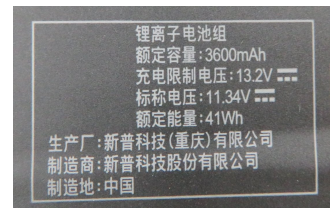
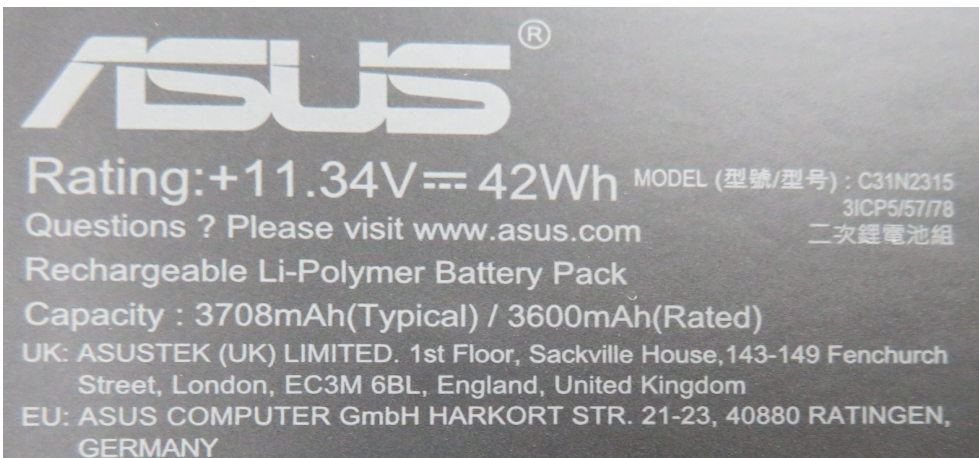
Note: D-Disassembly, F-Fire, O-No disassembly and no fire.

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待测物照片 Sample Pictures:



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儀器清冊 Test Equipment List:

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TEL: +886-3-5695920; FAX: +886-3-5695931

Revised Date: 2025-01-20

Test Instruments Reference List								
Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date Last	Calibration Date Next	Remarks
Pretest								
V	ML-761	Learning	715C	0~18V 0~7A	SMP	2024/1/16	2025/2/16	
V	ML-762	Learning	715C	0~18V 0~7A	SMP	2024/1/3	2025/2/3	
V	ML-763	Learning	715C	0~18V 0~7A	SMP	2024/1/16	2025/2/16	
	ML-925	Learning	750C8	20~60V 0~30A	SMP	2024/1/4	2025/2/4	
V	ML-1139	Learning	L720-191212-D	0~18V 0~12A	SMP	2024/1/3	2025/2/3	
	ML-1157	Learning	17020E	200V, 400A, 40 Kw	Chroma	2024/5/7	2025/6/7	EV
T.1 Altitude Simulation								
V	ML-522	Altitude	SVT-120	kPa:0~95	HSIN JIANG	2024/5/16	2025/6/16	
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2024/1/2	2025/2/2	
V	ML-995	Electronic Balance	UX1020H	0.1-200 gf(TAF) 0.1-1000 gf	SHIMADZU	2024/1/8	2025/2/8	
	ML-1035	Electronic Balance	JWI-700W	0.01~30kg	JADEVER	2024/5/16	2025/6/16	
	ML-1169	Electronic Balance	JWI-700W	1~60kg	JADEVER	2024/5/6	2025/6/6	EV
V	ML-1207	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2024/3/18	2025/4/18	
V	ML-964	Barometric Air Pressure	MP55	750 to 1095 mbar	KIMO	2024/5/17	2025/6/17	
T.2 Thermal Test								
V	ML-789	Thermal Shock	GTST-080-65-AW	T:-40 to 100 ℃	GF	2024/1/3	2025/2/3	
	ML-1159	Chamber	GTH-1000-60-CP-AR10	T:-60 to 100 ℃	GF	2024/8/20	2025/9/20	EV
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2024/1/2	2025/2/2	
V	ML-995	Electronic Balance	UX1020H	0.1-200 gf(TAF) 0.1-1000 gf	SHIMADZU	2024/1/8	2025/2/8	
	ML-1035	Electronic Balance	JWI-700W	0.01~30kg	JADEVER	2024/5/16	2025/6/16	
	ML-1169	Electronic Balance	JWI-700W	1~60kg	JADEVER	2024/5/6	2025/6/6	EV
	ML-1164	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2024/3/18	2025/4/18	EV
V	ML-1206	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2024/3/18	2025/4/18	
T.3 Vibration								
V	ML-233	Vibration	KD-9363-EM-300F2K-30N80	F:2~2000Hz G:0.2~8G	King Design	2024/7/18	2025/8/18	
	ML-1161	Vibration	KD-9363-EM5000F2K-76N800	F:2~2000Hz G:0.2~8G	King Design	2024/1/22	2025/2/22	EV
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2024/1/2	2025/2/2	
V	ML-995	Electronic Balance	UX1020H	0.1-200 gf(TAF) 0.1-1000 gf	SHIMADZU	2024/1/8	2025/2/8	
	ML-1035	Electronic Balance	JWI-700W	0.01~30kg	JADEVER	2024/5/16	2025/6/16	
	ML-1169	Electronic Balance	JWI-700W	1~60kg	JADEVER	2024/5/6	2025/6/6	EV
	ML-1163	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2024/4/14	2025/5/14	EV
V	ML-1152	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2024/4/15	2025/5/15	
T.4 Shock								
V	ML-056	Shock	DP-1200-25	G:10~500G	King Design	2024/7/18	2025/8/18	
	ML-1160	Shock	KingDesign / DP-1200-100	(3~20)ms, (7~150)g	King Design	2024/5/8	2025/6/8	EV
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2024/1/2	2025/2/2	
V	ML-995	Electronic Balance	UX1020H	0.1-200 gf(TAF) 0.1-1000 gf	SHIMADZU	2024/1/8	2025/2/8	
	ML-1035	Electronic Balance	JWI-700W	0.01~30kg	JADEVER	2024/5/16	2025/6/16	
	ML-1169	Electronic Balance	JWI-700W	1~60kg	JADEVER	2024/5/6	2025/6/6	EV
	ML-1163	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2024/4/14	2025/5/14	EV
V	ML-1206	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2024/3/18	2025/4/18	
T.5 External Short Circuit								
V	ML-894	Battery Hitester	BT3562	10mΩ ~ 3kΩ 0-59V	HIOKI	2024/4/2	2025/5/2	
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2024/1/2	2025/2/2	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200 ℃	Yokogawa	2024/6/28	2025/7/28	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200 ℃	Yokogawa	2024/6/28	2025/7/28	
	ML-1153	Data Acquisition	LR-8450	1-100 Vdc, 0 to 500 ℃	HIOKI	2024/4/12	2025/5/12	
V	ML-339	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200 ℃	Yokogawa	2024/4/12	2025/5/12	
	ML-1159	Chamber	GTH-1000-60-CP-AR10	T:-60 to 100 ℃	GF	2024/8/20	2025/9/20	EV
	ML-1164	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2024/4/2	2025/5/2	EV

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Revised Date: 2025-01-20

Test Instruments Reference List

Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date Last	Calibration Date Next	Remarks
	ML-521	Oven	9031	30~70 °C	YEOW LONG	2024/8/16	2025/9/16	
V	ML-1023	Oven	GCT-125-20-TR-SP	-20~100 °C	GF	2024/7/19	2025/8/19	
	ML-1083	Data Logger	1161	15~35 °C; 30~80 %RH	TES	2024/9/12	2025/10/12	
V	ML-1206	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2024/3/18	2025/4/18	
T.6 Impact / Crush								
V	ML-458	Data Acquisition	XL122-D	1-50 Vdc, 0 to 200°C	Yokogawa	2024/4/12	2025/5/12	
	ML-1153	Data Acquisition	LR-8450	1-100 Vdc, 0 to 500°C	HIOKI	2024/4/12	2025/5/12	
	ML-1016	Impact Tester	KD-2054E	9.1kg 15.8mm H:610mm	King Design	2024/3/22	2025/4/22	
	ML-553	Crush Tester	BCT-01	1.32~10.2 ton Speed : 10, 15, 20mm/s	Simplo	2024/4/23	2025/5/23	
V	ML-866	Crush Tester	M0654	1327kg 15mm 2-5 Vdc, 10 to 200°C	JYI SHENG	2024/3/22	2025/4/22	
	ML-1083	Data Logger	1161	15~35 °C; 30~80 %RH	TES	2024/9/12	2025/10/12	
V	ML-1208	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2024/3/18	2025/4/18	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2024/6/28	2025/7/28	
T.7 Overcharge								
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2024/4/12	2025/5/12	
	ML-489	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2024/4/12	2025/5/12	
	ML-904	Programmable DC Source	DS10014-MO	1-100Vdc, 0.3-14.4A	B&K Precision	2024/4/12	2025/5/12	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2024/4/12	2025/5/12	
	ML-488	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2024/4/12	2025/5/12	
	ML-490	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2024/5/15	2025/6/15	
	ML-1157	Learning	17020E	200V, 400A, 40 Kw	Chroma	2024/5/7	2025/6/7	EV
	ML-1153	Data Acquisition	LR-8450	1-100 Vdc, 0 to 500°C	HIOKI	2024/4/12	2025/5/12	EV
	ML-1159	Chamber	GTH-1000-60-CP-AR10	T:-60 to 100°C	GF	2024/8/20	2025/9/20	EV
	ML-1164	Data Logger	LR8514	15~35 °C; 30~80 %RH	HIOKI	2024/4/6	2025/5/6	EV
	ML-1083	Data Logger	1161	15~35 °C; 30~80 %RH	TES	2024/9/12	2025/10/12	
	ML-1208	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2024/3/18	2025/4/18	
V	ML-1207	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2024/3/18	2025/4/18	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2024/6/28	2025/7/28	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2024/6/28	2025/7/28	
	ML-918	Overcharge & Forced discharge tester	T901	Charge: 0.2~29.4Vdc, 0.2~18A Discharge: 3~19.5Vdc 0.1~11A	SMP	2024/3/8	2025/4/8	
V	ML-1200	Overcharge & Forced discharge tester	T901	Charge: 0.2~29.4Vdc, 0.2~18A Discharge: 3~19.5Vdc 0.1~17A	SMP	2024/4/12	2025/5/12	
T.8 Forced Discharge								
	ML-894	Battery Hitester	BT3562	10mΩ ~ 3kΩ 0-59V	HIOKI	2024/4/2	2025/5/2	
	ML-132	Electronic Load	3311C	60V,60A, 300W	Prodigit	2024/1/15	2025/2/15	
	ML-133	Electronic Load	3311C	60V,60A, 300W	Prodigit	2024/1/15	2025/2/15	
	ML-136	Electronic Load	3311C	60V,60A, 300W	Prodigit	2024/1/15	2025/2/15	
	ML-192	Electronic Load	3311C	60V,60A, 300W	Prodigit	2024/1/15	2025/2/15	
	ML-269	Electronic Load	3311C	60V,60A, 300W	Prodigit	2024/1/15	2025/2/15	
	ML-532	DC Electronic Load	33511-01	120V, 99.64A	Prodigit	2024/5/15	2025/6/15	
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2024/4/12	2025/5/12	
	ML-489	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2024/4/12	2025/5/12	
	ML-904	Programmable DC Source	DS10014-MO	1-100Vdc, 0.3-14.4A	B&K Precision	2024/4/12	2025/5/12	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2024/4/12	2025/5/12	
	ML-490	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2024/5/15	2025/6/15	
	ML-1083	Data Logger	1161	15~35 °C; 30~80 %RH	TES	2024/9/12	2025/10/12	
	ML-1208	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2024/3/18	2025/4/18	
V	ML-1207	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2024/3/18	2025/4/18	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2024/6/28	2025/7/28	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2024/6/28	2025/7/28	
	ML-918	Overcharge & Forced discharge tester	T901	Charge: 0.2~29.4Vdc, 0.2~18A Discharge: 3~19.5Vdc 0.1~11A	SMP	2024/3/8	2025/4/8	
V	ML-1200	Overcharge & Forced discharge tester	T901	Charge: 0.2~29.4Vdc, 0.2~18A Discharge: 3~19.5Vdc 0.1~17A	SMP	2024/4/12	2025/5/12	

Note 1: DC Voltage: 0.1-1000V; AC Voltage: 0.5-700V at 60Hz, 1kHz; Resistance: 10Ω-10MΩ; DC Current: 0.1mA-3A; AC Current: 0.01-3A at 60Hz, 0.01-1A, at 1kHz.

****报告结束 End of Test Report****

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