Control Number: SASU-2508001
Issue Date: 2025/08/19

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
Sample name:	ASUS, C41N2503, 15.6V, 49.5Wh, Capacity 3174mAh (Typical)/ 3082mAh (Rated)/ 48.1Wh/ ATL/ 167(g)
委托单位	新普科技股份有限公司
Consignor:	SIMPLO TECHNOLOGY CO., LTD.
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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Form NO. W11-002-B08

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<table>
<tr><td>样品名称
Sample name</td><td colspan="3">可充电电池组 Rechargeable Li-ion Battery Pack
ASUS, C41N2503, 15.6V, 49.5Wh, Capacity 3174mAh (Typical)/
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Consignor</td><td colspan="3">新普科技股份有限公司
SIMPLO TECHNOLOGY CO., LTD.</td></tr>
<tr><td>生产单位
Manufacturer</td><td colspan="3">新普科技（重庆）有限公司
SIMPLO TECHNOLOGY (CHONGQING) INC</td></tr>
<tr><td>检测方法/判定标准
Test method/Criterion</td><td colspan="3">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</td></tr>
<tr><td>样品外观
Appearance</td><td colspan="3">黑色塑料外壳。
Black plastic film shell.</td></tr>
<tr><td rowspan="2">样品接受日期
Accepted Date</td><td>Cell
2025/06/02</td><td rowspan="2">检测起迄日期
Test Date</td><td>Cell Test Duration:
2025/06/02~2025/06/17</td></tr>
<tr><td>Pack
2025/05/29</td><td>Pack Test Duration:
2025/05/29~2025/06/13</td></tr>
<tr><td>检测项目
Test Items</td><td colspan="3">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；</td></tr>
<tr><td>检测结论
Conclusion</td><td colspan="3">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</td></tr>
<tr><td>备注
Remarks</td><td colspan="3">1. This report is published based on the test results of Report No. SASU-2506001.
2. Due to the change of label, the sample picture need to be modified and this report has been updated.</td></tr>
<tr><td colspan="4">报告版本清单 List of report version</td></tr>
<tr><td>版本 Version</td><td colspan="2">修改内容 Modify content</td><td>生效日 Issue date</td></tr>
</table>

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01	First publish	2025/08/19
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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 試驗 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 試驗 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 試驗 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 試驗 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	
	以下空白	Blank below			

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检测环境条件 Test environment condition	环境温度：21.0℃~24.1℃；环境湿度：36%~59%。 Ambient temperature：21.0℃~24.1℃；Ambient humidity：36%~59%。
报告声明 Report statement	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.
	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.
	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,客戶提供的信息除外。 The laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer.

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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			
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	17.432	17.424	99.95%	165.652	165.650	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	17.430	17.428	99.99%	165.997	165.991	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	17.433	17.425	99.95%	165.801	165.797	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	17.428	17.424	99.98%	165.733	165.729	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	17.458	17.455	99.98%	165.787	165.784	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	17.460	17.458	99.99%	165.722	165.717	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	17.457	17.455	99.99%	166.114	166.110	0.00%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	17.457	17.454	99.98%	165.572	165.569	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.

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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	17.424	16.910	97.05%	165.650	165.628	0.01%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	17.428	16.912	97.04%	165.991	165.969	0.01%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	17.425	16.902	97.00%	165.797	165.772	0.02%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	17.424	16.907	97.03%	165.729	165.703	0.02%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	17.455	16.980	97.28%	165.784	165.758	0.02%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	17.458	16.979	97.26%	165.717	165.697	0.01%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	17.455	16.977	97.26%	166.110	166.087	0.01%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	17.454	16.972	97.24%	165.569	165.544	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.

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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	16.910	16.904	99.96%	165.628	165.629	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	16.912	16.908	99.98%	165.969	165.970	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	16.902	16.889	99.92%	165.772	165.775	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	16.907	16.898	99.95%	165.703	165.705	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	16.980	16.975	99.97%	165.758	165.759	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	16.979	16.972	99.96%	165.697	165.698	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	16.977	16.971	99.96%	166.087	166.088	0.00%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	16.972	16.965	99.96%	165.544	165.546	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.
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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	16.904	16.899	99.97%	165.629	165.622	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	16.908	16.901	99.96%	165.970	165.965	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	16.889	16.884	99.97%	165.775	165.770	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	16.898	16.893	99.97%	165.705	165.701	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	16.975	16.971	99.98%	165.759	165.755	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	16.972	16.969	99.98%	165.698	165.694	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	16.971	16.967	99.98%	166.088	166.083	0.00%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	16.965	16.960	99.97%	165.546	165.542	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.
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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	表面最高溫度 Max. External Temperature/℃(<170℃)	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	58.9	O
03	1 Cycle 完全充电 1 Cycle Fully charged	59.0	O
04	1 Cycle 完全充电 1 Cycle Fully charged	59.2	O
05	25 Cycles 完全充电 25 Cycles Fully charged	58.8	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	59.2	O
08	25 Cycles 完全充电 25 Cycles Fully charged	59.1	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.			

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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	表面最高溫度 Max. External Temperature/℃(<170℃)	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	表面最高溫度 Max. External Temperature/℃(<170℃)	其他现象 Other Event
01 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	25.2	O
02 C	1Cycle 50% 容量 1 Cycle 50% Capacity	24.4	O
03 C	1Cycle 50% 容量 1 Cycle 50% Capacity	24.7	O
04 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	25.7	O
05 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	25.8	O
06 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	24.0	O
07 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	24.8	O
08 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	24.8	O
09 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	24.4	O
10 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	25.8	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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仪器清册 Test Equipment List:

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Revised Date: 2025-06-13

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	2025/1/14	2026/2/14	
V	ML-762	Learning	715C	0~18V 0~7A	SMP	2025/1/2	2026/2/2	
V	ML-763	Learning	715C	0~18V 0~7A	SMP	2025/1/14	2026/2/14	
	ML-925	Learning	750C8	20~60V 0~30A	SMP	2025/1/2	2026/2/2	EV
V	ML-1139	Learning	L720-191212-D	0~18V 0~12A	SMP	2025/1/2	2026/2/2	
	ML-1157	Learning	17020E	200V, 400A, 40 Kw	Chroma	2025/5/7	2026/6/7	EV
	T.1 Altitude Simulation							
V	ML-522	Altitude	SVT-120	kPa:0~95	HSIN JIANG	2025/5/7	2026/6/7	
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2025/1/2	2026/2/2	
V	ML-995	Electronic Balance	UX1020H	0.1-200 gf(TAF) 0.1-1000 gf	SHIMADZU	2025/1/6	2026/2/6	
	ML-1035	Electronic Balance	JWI-700W	0.01~30kg	JADEVER	2025/5/7	2026/6/7	
	ML-1169	Electronic Balance	JWI-700W	1~60kg	JADEVER	2025/5/5	2026/6/5	EV
V	ML-1207	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
V	ML-964	Barometric Air Pressure	MP55	750 to 1095 mbar	KIMO	2025/5/14	2026/6/14	
	T.2 Thermal Test							
V	ML-789	Thermal Shock	GTST-080-65-AW	T:-40 to 100℃	GF	2025/1/2	2026/2/2	
	ML-1242	Temperature Chamber	GCT-1000-60-CP-AR10	T:-60 to 150°C	GIANT FORCE	2025/2/13	2026/3/13	EV
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2025/1/2	2026/2/2	
V	ML-995	Electronic Balance	UX1020H	0.1-200 gf(TAF) 0.1-1000 gf	SHIMADZU	2025/1/6	2026/2/6	
	ML-1035	Electronic Balance	JWI-700W	0.01~30kg	JADEVER	2025/5/7	2026/6/7	
	ML-1169	Electronic Balance	JWI-700W	1~60kg	JADEVER	2025/5/5	2026/6/5	EV
	ML-1164	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/28	2026/4/28	EV
V	ML-1206	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
	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	2025/1/20	2026/2/20	EV
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2025/1/2	2026/2/2	
V	ML-995	Electronic Balance	UX1020H	0.1-200 gf(TAF) 0.1-1000 gf	SHIMADZU	2025/1/6	2026/2/6	
	ML-1035	Electronic Balance	JWI-700W	0.01~30kg	JADEVER	2025/5/7	2026/6/7	
	ML-1169	Electronic Balance	JWI-700W	1~60kg	JADEVER	2025/5/5	2026/6/5	EV
	ML-1163	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2025/4/14	2026/5/14	EV
V	ML-1152	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/4/14	2026/5/14	
	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	2025/5/6	2026/6/6	EV
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2025/1/2	2026/2/2	
V	ML-995	Electronic Balance	UX1020H	0.1-200 gf(TAF) 0.1-1000 gf	SHIMADZU	2025/1/6	2026/2/6	
	ML-1035	Electronic Balance	JWI-700W	0.01~30kg	JADEVER	2025/5/7	2026/6/7	
	ML-1169	Electronic Balance	JWI-700W	1~60kg	JADEVER	2025/5/5	2026/6/5	EV
	ML-1163	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2025/4/14	2026/5/14	EV
V	ML-1206	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
	T.5 External Short Circuit							
V	ML-894	Battery Hitester	BT3562	10mΩ ~ 3kΩ 0-59V	HIOKI	2025/4/7	2026/5/7	
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2025/1/2	2026/2/2	
	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-1153	Data Acquisition	LR-8450	1-100 Vdc, 0 to 500°C	HIOKI	2025/4/11	2026/5/11	
V	ML-339	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2025/4/11	2026/5/11	
	ML-1159	Chamber	GTH-1000-60-CP-AR10	T:-60 to 100°C	GF	2024/8/20	2025/9/20	EV

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Revised Date: 2025-06-13

Test Instruments Reference List

Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date_Last	Calibration Date_Next	Remarks
	ML-1164	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/28	2026/4/28	EV
	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	
V	ML-1206	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
	ML-1225	Temperature Chamber	GCT-420DU-40-CP-AR	-40~100 °C	Giant Force	2024/11/26	2025/12/26	EV
	T.6 Impact / Crush							
V	ML-458	Data Acquisition	XL122-D	1-50 Vdc, 0 to 200°C	Yokogawa	2025/4/11	2026/5/11	
	ML-1153	Data Acquisition	LR-8450	1-100 Vdc, 0 to 500°C	HIOKI	2025/4/11	2026/5/11	
	ML-1016	Impact Tester	KD-2054E	9.1kg 15.8mm H:610mm	King Design	2025/3/21	2026/4/21	
	ML-553	Crush Tester	BCT-01	1.32~10.2 ton Speed : 10, 15, 20mm/s	Simplo	2025/3/21	2026/4/21	
V	ML-866	Crush Tester	M0654	1327kg 15mm 2-5 Vdc, 10 to 200°C	JYI SHENG	2025/2/20	2026/3/20	
V	ML-1208	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
	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	2025/4/11	2026/5/11	
	ML-489	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2025/4/11	2026/5/11	
	ML-904	Programmable DC Source	DS10014-MO	1-100Vdc, 0.3-14.4A	B&K Precision	2025/4/11	2026/5/11	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2025/4/11	2026/5/11	
	ML-490	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2025/5/8	2026/6/8	
	ML-1157	Learning	17020E	200V, 400A, 40 Kw	Chroma	2025/5/7	2026/6/7	EV
	ML-1006	Learning	17020 (69225-100-4)	200V, 400A, 40 Kw	Chroma	2024/8/20	2025/9/20	EV
	ML-1153	Data Acquisition	LR-8450	1-100 Vdc, 0 to 500°C	HIOKI	2025/4/11	2026/5/11	EV
	ML-1159	Chamber	GTH-1000-60-CP-AR10	T:-60 to 100°C	GF	2025/4/11	2026/5/11	EV
	ML-1164	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/28	2026/4/28	EV
	ML-1208	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
V	ML-1207	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
	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	2025/3/7	2026/4/7	
V	ML-1200	Overcharge & Forced discharge tester	T901	Charge: 0.2~29.4Vdc, 0.2~18A Discharge: 3~19.5Vdc 0.1~17A	SMP	2025/4/11	2026/5/11	
	ML-1000	TEMP. & HUMIDITY CHAMBER	GTH-360DU-40-CP-AR	-40~100 °C	GIANT FORCE	2024/8/20	2025/9/20	EV
	T.8 Forced Discharge							
	ML-894	Battery Hitester	BT3562	10mΩ ~ 3kΩ 0-59V	HIOKI	2025/4/7	2026/5/7	
	ML-132	Electronic Load	3311C	60V,60A, 300W	Prodigit	2025/1/13	2026/2/13	
	ML-133	Electronic Load	3311C	60V,60A, 300W	Prodigit	2025/1/13	2026/2/13	
	ML-136	Electronic Load	3311C	60V,60A, 300W	Prodigit	2025/1/13	2026/2/13	
	ML-192	Electronic Load	3311C	60V,60A, 300W	Prodigit	2025/1/13	2026/2/13	
	ML-269	Electronic Load	3311C	60V,60A, 300W	Prodigit	2025/1/13	2026/2/13	
	ML-532	DC Electronic Load	33511-01	120V, 99.64A	Prodigit	2025/5/7	2026/6/7	
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2025/4/11	2026/5/11	
	ML-489	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2025/4/11	2026/5/11	
	ML-904	Programmable DC Source	DS10014-MO	1-100Vdc, 0.3-14.4A	B&K Precision	2025/4/11	2026/5/11	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2025/4/11	2026/5/11	
	ML-490	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2025/5/8	2026/6/8	
	ML-1208	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
V	ML-1207	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
	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	2025/3/7	2026/4/7	
V	ML-1200	Overcharge & Forced discharge tester	T901	Charge: 0.2~29.4Vdc, 0.2~18A Discharge: 3~19.5Vdc 0.1~17A	SMP	2025/4/11	2026/5/11	

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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