

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, C41N2401, 15.56V, 70Wh, Capacity 4500mAh (Typical),
Sample name: 4370mAh (Rated)/ 68Wh/ COSMX/ 236(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, C41N2401, 15.56V, 70Wh, Capacity 4500mAh (Typical), 4370mAh (Rated)/ 68Wh/ COSMX/ 236(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 2024/05/20	检测起迄日期 Test Date	Cell Test Duration: 2024/05/20~2024/06/03
	Pack 2024/06/12		Pack Test Duration: 2024/06/12~2024/06/28
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	2024/07/04
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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：23.8°C~26.8°C；环境湿度：28%~36%。 Ambient temperature：23.8°C~26.8°C；Ambient humidity：28%~36%。</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	17.561	17.456	99.40%	235.489	235.485	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	17.447	17.442	99.97%	235.636	235.631	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	17.446	17.439	99.96%	235.422	235.417	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	17.442	17.436	99.97%	235.560	235.554	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	17.461	17.457	99.98%	235.424	235.417	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	17.468	17.461	99.96%	235.474	235.469	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	17.461	17.456	99.97%	235.743	235.738	0.00%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	17.466	17.462	99.98%	235.853	235.847	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	17.456	16.952	97.11%	235.485	235.442	0.02%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	17.442	16.922	97.02%	235.631	235.587	0.02%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	17.439	16.921	97.03%	235.417	235.371	0.02%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	17.436	16.921	97.05%	235.554	235.511	0.02%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	17.457	16.955	97.12%	235.417	235.374	0.02%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	17.461	16.964	97.15%	235.469	235.425	0.02%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	17.456	16.962	97.17%	235.738	235.701	0.02%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	17.462	16.974	97.21%	235.847	235.810	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	16.952	16.946	99.96%	235.442	235.445	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	16.922	16.918	99.98%	235.587	235.588	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	16.921	16.917	99.98%	235.371	235.369	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	16.921	16.916	99.97%	235.511	235.514	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	16.955	16.950	99.97%	235.374	235.378	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	16.964	16.957	99.96%	235.425	235.429	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	16.962	16.957	99.97%	235.701	235.706	0.00%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	16.974	16.969	99.97%	235.810	235.811	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 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	16.946	16.942	99.98%	235.445	235.440	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	16.918	16.909	99.95%	235.588	235.590	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	16.917	16.910	99.96%	235.369	235.363	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	16.916	16.915	99.99%	235.514	235.511	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	16.950	16.948	99.99%	235.378	235.373	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	16.957	16.956	99.99%	235.429	235.425	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	16.957	16.954	99.98%	235.706	235.702	0.00%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	16.969	16.952	99.90%	235.811	235.810	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	59.2	O
02	1 Cycle 完全充电 1 Cycle Fully charged	59.1	O
03	1 Cycle 完全充电 1 Cycle Fully charged	59.1	O
04	1 Cycle 完全充电 1 Cycle Fully charged	59.0	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	59.2	O
07	25 Cycles 完全充电 25 Cycles Fully charged	59.1	O
08	25 Cycles 完全充电 25 Cycles Fully charged	59.0	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	27.4	O
02 C	1Cycle 50% 容量 1 Cycle 50% Capacity	27.9	O
03 C	1Cycle 50% 容量 1 Cycle 50% Capacity	27.0	O
04 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	27.8	O
05 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	27.5	O
06 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	27.8	O
07 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	27.6	O
08 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	27.5	O
09 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	27.4	O
10 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	27.2	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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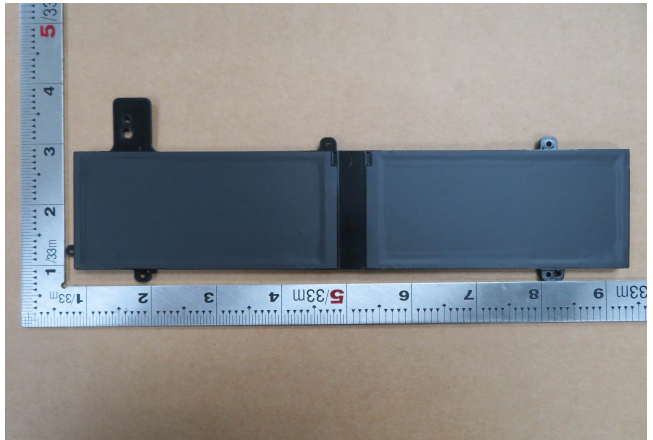
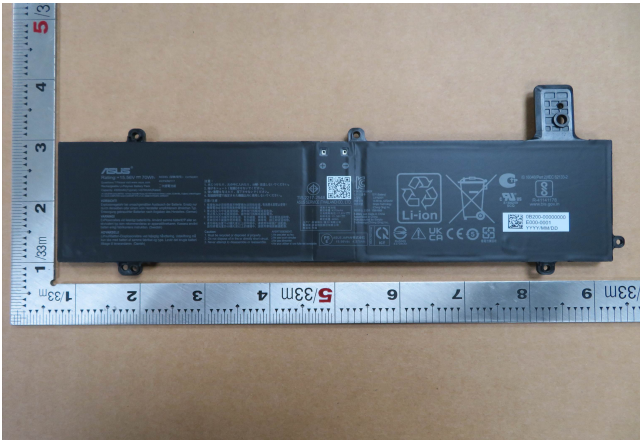
附表 8 Appendix 8

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.

待测物照片 Sample Pictures:



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儀器清冊 Test Equipment List:

SMP SIMPLO TECHNOLOGY CO., LTD.

Address : No.471, Sec.2, Pa Teh Rd., Hu Kou, Hsin Chu Hsien 303, Taiwan
TEL: +886-3-5695920; FAX: +886-3-5695931

Revised Date: 2024-07-04

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	2023/8/31	2024/9/30	EV
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent		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	2023/7/24	2024/8/24	
	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	2023/7/24	2024/8/24	
	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	2023/6/30	2024/7/30	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200℃	Yokogawa	2023/6/30	2024/7/30	
	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	2023/8/31	2024/9/30	EV
	ML-1164	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2024/4/2	2025/5/2	EV

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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	2023/8/21	2024/9/21	
V	ML-1023	Oven	GCT-125-20-TR-SP	-20~100 °C	GF	2023/7/25	2024/8/25	
	ML-1083	Data Logger	1161	15~35 °C; 30~80 %RH	TES	2023/9/15	2024/10/15	
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	
V	ML-1083	Data Logger	1161	15~35 °C; 30~80 %RH	TES	2023/9/15	2024/10/15	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2023/7/30	2024/8/30	
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-AR1	T:-60 to 100°C	GF	2023/8/31	2024/9/30	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	2023/9/15	2024/10/15	
	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	2023/6/30	2024/7/30	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2023/6/30	2024/7/30	
	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	2023/9/15	2024/10/15	
	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	2023/6/30	2024/7/30	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2023/6/30	2024/7/30	
	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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