

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, C41N2403, 15.48V, 40Wh, Capacity 2590mAh (Typical)/

Sample name:

2515mAh (Rated)/ COSMX/ 162(g)

委托单位

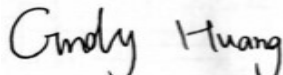
新普科技股份有限公司
SIMPLO TECHNOLOGY CO., LTD.

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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Form NO. W11-002-B08

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样品名称 Sample name	可充电电池组 Rechargeable Li-ion Battery Pack ASUS, C41N2403, 15.48V, 40Wh, Capacity 2590mAh (Typical)/ 2515mAh (Rated)/ COSMX/ 162(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 2024/04/25	检测起迄日期 Test Date	Cell Test Duration: 2024/04/25~2024/05/13
	Pack 2024/04/29		Pack Test Duration: 2024/04/29~2024/05/15
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	2024/05/21
以下空白	Blank below	

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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检测环境条件 Test environment condition	环境温度：23.8℃~26.5℃；环境湿度：27%~33%。 Ambient temperature：23.8℃~26.5℃；Ambient humidity：27%~33%。
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.

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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	17.345	17.336	99.95%	161.013	161.002	0.01%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	17.345	17.330	99.91%	160.550	160.542	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	17.331	17.321	99.94%	161.081	161.073	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	17.343	17.334	99.95%	161.252	161.245	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	17.340	17.332	99.95%	161.127	161.120	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	17.347	17.340	99.96%	161.281	161.273	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	17.339	17.326	99.93%	161.185	161.177	0.00%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	17.331	17.320	99.94%	160.835	160.826	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.								

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	17.336	16.949	97.77%	161.002	160.995	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	17.330	16.933	97.71%	160.542	160.526	0.01%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	17.321	16.928	97.73%	161.073	161.057	0.01%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	17.334	16.903	97.51%	161.245	161.230	0.01%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	17.332	16.974	97.93%	161.120	161.110	0.01%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	17.340	16.985	97.95%	161.273	161.266	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	17.326	16.971	97.95%	161.177	161.165	0.01%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	17.320	16.963	97.94%	160.826	160.816	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 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	16.949	16.940	99.95%	160.995	160.977	0.01%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	16.933	16.929	99.98%	160.526	160.518	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	16.928	16.912	99.91%	161.057	161.044	0.01%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	16.903	16.899	99.98%	161.230	161.217	0.01%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	16.974	16.969	99.97%	161.110	161.093	0.01%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	16.985	16.978	99.96%	161.266	161.245	0.01%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	16.971	16.964	99.96%	161.165	161.152	0.01%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	16.963	16.950	99.92%	160.816	160.796	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.								

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	16.940	16.938	99.99%	160.977	160.971	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	16.929	16.927	99.99%	160.518	160.513	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	16.912	16.910	99.99%	161.044	161.038	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	16.899	16.896	99.98%	161.217	161.211	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	16.969	16.964	99.97%	161.093	161.088	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	16.978	16.973	99.97%	161.245	161.239	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	16.964	16.958	99.96%	161.152	161.147	0.00%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	16.950	16.945	99.97%	160.796	160.790	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	60.1	O
02	1 Cycle 完全充电 1 Cycle Fully charged	59.9	O
03	1 Cycle 完全充电 1 Cycle Fully charged	59.7	O
04	1 Cycle 完全充电 1 Cycle Fully charged	59.6	O
05	25 Cycles 完全充电 25 Cycles Fully charged	59.5	O
06	25 Cycles 完全充电 25 Cycles Fully charged	60.1	O
07	25 Cycles 完全充电 25 Cycles Fully charged	59.6	O
08	25 Cycles 完全充电 25 Cycles Fully charged	59.6	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	27.6	O
02 C	1Cycle 50% 容量 1 Cycle 50% Capacity	28.2	O
03 C	1Cycle 50% 容量 1 Cycle 50% Capacity	28.0	O
04 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	28.0	O
05 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	28.0	O
06 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	27.7	O
07 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	27.5	O
08 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	27.8	O
09 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	27.3	O
10 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	27.4	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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仪器清册 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: 2024-05-21

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	2023/5/19	2024/6/19	
T.1 Altitude Simulation								
V	ML-522	Altitude	SVT-120	kPa:0~95	HSIN JIANG	2023/5/31	2024/6/30	
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	2023/5/31	2024/6/30	
	ML-1169	Electronic Balance	JWI-700W	1~60kg	JADEVER	2023/5/11	2024/6/11	
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	2023/6/7	2024/7/7	
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-AR1	T:-60 to 100℃	GF	2023/8/31	2024/9/30	
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	2023/5/31	2024/6/30	
	ML-1169	Electronic Balance	JWI-700W	1~60kg	JADEVER	2023/5/11	2024/6/11	
	ML-1164	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2024/3/18	2025/4/18	
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	2023/5/16	2024/6/16	
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	2023/5/31	2024/6/30	
	ML-1169	Electronic Balance	JWI-700W	1~60kg	JADEVER	2023/5/11	2024/6/11	
	ML-1163	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2024/4/14	2025/5/14	
V	ML-1152	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2024/4/15	2025/5/15	
T.4 Shock								
	ML-056	Shock	DP-1200-25	G:10~500G	King Design	2023/7/24	2024/8/24	
V	ML-1160	Shock	KingDesign / DP-1200-100	(3~20)ms, (7~150)g	King Design	2023/5/16	2024/6/16	
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	2023/5/31	2024/6/30	
	ML-1169	Electronic Balance	JWI-700W	1~60kg	JADEVER	2023/5/11	2024/6/11	
V	ML-1163	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2024/4/14	2025/5/14	
	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	
V	ML-1153	Data Acquisition	LR-8450	1~100 Vdc, 0 to 500℃	HIOKI	2024/4/12	2025/5/12	
	ML-1159	Chamber	GTH-1000-60-CP-AR1	T:-60 to 100℃	GF	2023/8/31	2024/9/30	
	ML-1164	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2024/4/2	2025/5/2	

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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	
V	ML-1083	Data Logger	1161	15~35 °C; 30~80 %RH	TES	2023/9/15	2024/10/15	
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	2023/5/24	2024/6/24	
	ML-1157	Learning	17020E	200V, 400A, 40 Kw	Chroma	2023/5/19	2024/6/19	
	ML-1153	Data Acquisition	LR-8450	1-100 Vdc, 0 to 500°C	HIOKI	2024/4/12	2025/5/12	
	ML-1159	Chamber	GTH-1000-60-CP-AR10	T:-60 to 100°C	GF	2023/8/31	2024/9/30	
	ML-1164	Data Logger	LR8514	15~35 °C; 30~80 %RH	HIOKI	2024/4/6	2025/5/6	
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	2023/6/30	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	2023/5/24	2024/6/24	
	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	2023/5/24	2024/6/24	
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	2023/6/30	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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