

Verification Report No.: NGBEC24003700601 Date: Nov 21, 2024 Page 1 of 20

Client Name: JIANGSU DAYBRIGHT INTELLIGENT ENERGY CO.,LTD
Client Address: NO 223, JIANGJUN AVENUE, JIANGNING DISTRICT, NANJING JIANGSU P.R.CHINA

Sample Name: Rechargeable Li-ion Battery
Tested Basic Model No.: LW5000
The above sample(s) and information were provided by the client.

SGS Job No.: TIC1020240612142926BJUT
Sample Receiving Date: Jul 02, 2024
Verification Period: Jul 02, 2024 ~ Nov 21, 2024
Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.
Verification Method(s): Please refer to next page(s).
Verification Result(s): Please refer to next page(s).

Test Result Summary:

Test Items	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Damon Li

Damon Li
Approved Signatory

scan to see the report



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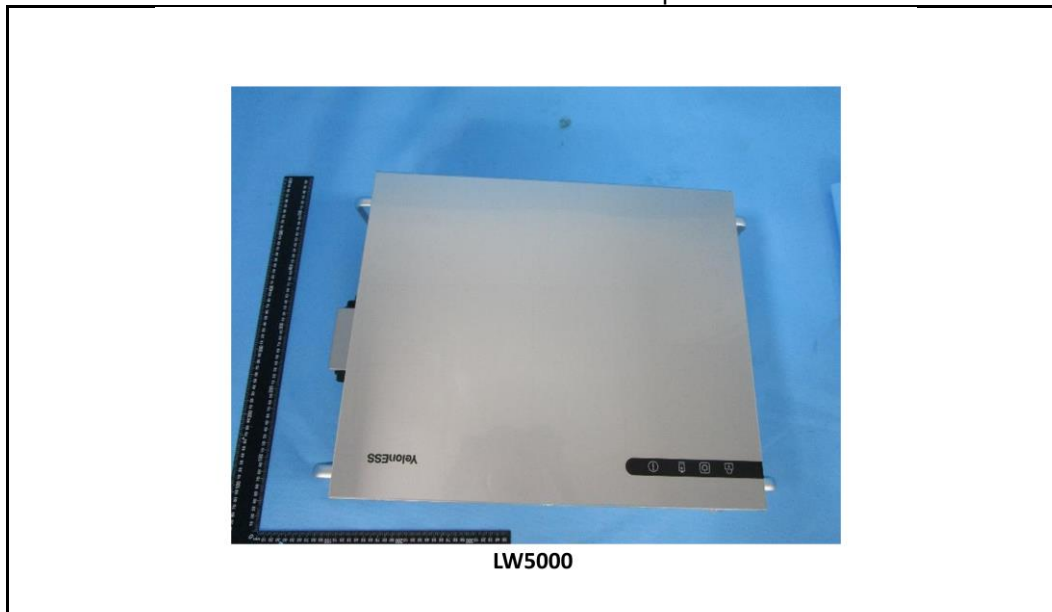
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Ningbo Branch Chemical Laboratory

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Photo of Submitted Sample



LW5000

Verification Method(s):

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.
 - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
 - (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-12:2023, IEC 62321-6:2015 and IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.



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Verification Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB24-0037006-0001.C001	Black coating
SN2	A2	NGB24-0037006-0001.C002.C001	Silvery coating
SN3	A3	NGB24-0037006-0001.C003	Transparent plastic base
SN4	A4	NGB24-0037006-0001.C004	Beige adhesive
SN5	A5	NGB24-0037006-0001.C005	Black foam frame
SN6	A6	NGB24-0037006-0001.C006	Silvery coating
SN7	A7	NGB24-0037006-0001.C007	Silvery metal base
SN8	A8	NGB24-0037006-0001.C008	Black plastic piece
SN9	A9	NGB24-0037006-0001.C009	Silvery metal screw
SN10	A10	NGB24-0037006-0001.C010	Silvery metal nut
SN11	A11	NGB24-0037006-0001.C011	Silvery metal screw
SN12	A12	NGB24-0037006-0001.C012	Black plastic lump
SN13	A13	NGB24-0037006-0001.C013	Silvery metal rod
SN14	A14	NGB24-0037006-0001.C014	Silvery metal spring
SN15	A15	NGB24-0037006-0001.C015	Transparent black plastic cover
SN16	A16	NGB24-0037006-0001.C016	Gray plastic bracket
SN17	A17	NGB24-0037006-0001.C017	Black foam bar
SN18	A18	NGB24-0037006-0001.C018	Golden metal lump
SN19	A19	NGB24-0037006-0001.C019	White plastic lump
SN20	A20	NGB24-0037006-0001.C020	Green PCB body
SN21	A21	NGB24-0037006-0001.C021	Silvery metal soldering tin
SN22	A22	NGB24-0037006-0001.C022	Yellow capacitor body
SN23	A23	NGB24-0037006-0001.C023	Red electronic components
SN24	A24	NGB24-0037006-0001.C024	Black plastic button
SN25	A25	NGB24-0037006-0001.C025	Silvery metal bracket
SN26	A26	NGB24-0037006-0001.C026	Black plastic shell
SN27	A27	NGB24-0037006-0001.C027	Silvery metal piece
SN28	A28	NGB24-0037006-0001.C028	Transparent blue plastic sheath
SN29	A29	NGB24-0037006-0001.C029	Silvery metal joint
SN30	A30	NGB24-0037006-0001.C030	Black plastic sheath
SN31	A31	NGB24-0037006-0001.C031	Red plastic jacket
SN32	A32	NGB24-0037006-0001.C032	Black plastic jacket
SN33	A33	NGB24-0037006-0001.C033	Orange plastic sheath
SN34	A34	NGB24-0037006-0001.C034	Silvery metal piece
SN35	A35	NGB24-0037006-0001.C035	White rubber washer
SN36	A36	NGB24-0037006-0001.C036	Orange plastic bracket
SN37	A37	NGB24-0037006-0001.C037	Black plastic bracket
SN38	A38	NGB24-0037006-0001.C038	Silvery metal lump
SN39	A39	NGB24-0037006-0001.C039	Black rubber ring
SN40	A40	NGB24-0037006-0001.C040	White plastic lump
SN41	A41	NGB24-0037006-0001.C041	Black plastic sheath
SN42	A42	NGB24-0037006-0001.C042	Silvery metal piece
SN43	A43	NGB24-0037006-0001.C043	Copper-colored metal piece
SN44	A44	NGB24-0037006-0001.C044	Silvery metal lump
SN45	A45	NGB24-0037006-0001.C045	Black plastic sheath
SN46	A46	NGB24-0037006-0001.C046	Black rubber jacket
SN47	A47	NGB24-0037006-0001.C047	White solid adhesive



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SN ID	Sample No.	SGS Sample ID	Description
SN48	A48	NGB24-0037006-0001.C048	Silvery metal handle
SN49	A49	NGB24-0037006-0001.C049	Silvery metal lump
SN50	A50	NGB24-0037006-0001.C050	Silvery metal lump
SN51	A51	NGB24-0037006-0001.C051	Red rubber ring
SN52	A52	NGB24-0037006-0001.C052	Silvery metal nut
SN53	A53	NGB24-0037006-0001.C053	Black plastic cover
SN54	A54	NGB24-0037006-0001.C054	Black rubber ring
SN55	A55	NGB24-0037006-0001.C055	Black plastic bar
SN56	A56	NGB24-0037006-0001.C056	Black plastic nut
SN57	A57	NGB24-0037006-0001.C057	Black rubber washer
SN58	A58	NGB24-0037006-0001.C058	Black plastic shell
SN59	A59	NGB24-0037006-0001.C059	Black rubber mat
SN60	A60	NGB24-0037006-0001.C060	Silvery metal bracket
SN61	A61	NGB24-0037006-0001.C061	White plastic bracket
SN62	A62	NGB24-0037006-0001.C062	Blue PCB body
SN63	A63	NGB24-0037006-0001.C063	Silvery metal soldering tin
SN64	A64	NGB24-0037006-0001.C064	Black solid adhesive
SN65	A65	NGB24-0037006-0001.C065	Semitransparent plastic cable tie
SN66	A66	NGB24-0037006-0001.C066	White plastic label
SN67	A67	NGB24-0037006-0001.C067	Semitransparent solid adhesive
SN68	A68	NGB24-0037006-0001.C068	White plastic joint
SN69	A69	NGB24-0037006-0001.C069	Black fiber adhesive tape
SN70	A70	NGB24-0037006-0001.C070	White plastic sheath
SN71	A71	NGB24-0037006-0001.C071	Black plastic jacket
SN72	A72	NGB24-0037006-0001.C072	Black rubber ring
SN73	A73	NGB24-0037006-0001.C073	Black plastic shell
SN74	A74	NGB24-0037006-0001.C074	Black plastic bracket
SN75	A75	NGB24-0037006-0001.C075	Silvery metal pin
SN76	A76	NGB24-0037006-0001.C076	Black solid adhesive
SN77	A77	NGB24-0037006-0001.C077	Yellow plastic jacket
SN78	A78	NGB24-0037006-0001.C078	Green plastic jacket
SN79	A79	NGB24-0037006-0001.C079	Blue plastic jacket
SN80	A80	NGB24-0037006-0001.C080	White plastic jacket
SN81	A81	NGB24-0037006-0001.C081	Silvery metal piece
SN82	A82	NGB24-0037006-0001.C082	Orange rubber piece
SN83	A83	NGB24-0037006-0001.C083	Black foam lump
SN84	A84	NGB24-0037006-0001.C084	Black foam piece
SN85	A85	NGB24-0037006-0001.C085	White plastic label
SN86	A86	NGB24-0037006-0001.C086	White fibreglass sheath
SN87	A87	NGB24-0037006-0001.C087	Red rubber jacket
SN88	A88	NGB24-0037006-0001.C088	Red plastic jacket
SN89	A89	NGB24-0037006-0001.C089	Silvery metal piece
SN90	A90	NGB24-0037006-0001.C090	Black plastic sheath
SN91	A91	NGB24-0037006-0001.C091	Semitransparent plastic joint
SN92	A92	NGB24-0037006-0001.C092	Red plastic jacket
SN93	A93	NGB24-0037006-0001.C093	Gray solid adhesive
SN94	A94	NGB24-0037006-0001.C094	Silvery metal board
SN95	A95	NGB24-0037006-0001.C095	Black plastic shell
SN96	A96	NGB24-0037006-0001.C096	Black solid adhesive



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SN ID	Sample No.	SGS Sample ID	Description
SN97	A97	NGB24-0037006-0001.C097	Green PCB body
SN98	A98	NGB24-0037006-0001.C098	Silvery metal soldering tin
SN99	A99	NGB24-0037006-0001.C099	Black plastic lump
SN100	A100	NGB24-0037006-0001.C100	Green coating
SN101	A101	NGB24-0037006-0001.C101	Black plastic shell
SN102	A102	NGB24-0037006-0001.C102	Black electronic components
SN103	A103	NGB24-0037006-0001.C103	Black plastic shell
SN104	A104	NGB24-0037006-0001.C104	Black rubber lump
SN105	A105	NGB24-0037006-0001.C105	Gray plastic shell
SN106	A106	NGB24-0037006-0001.C106	Black solid adhesive
SN107	A107	NGB24-0037006-0001.C107	Black plastic bracket
SN108	A108	NGB24-0037006-0001.C108	Silvery metal bracket
SN109	A109	NGB24-0037006-0001.C109	Black audion body
SN110	A110	NGB24-0037006-0001.C110	Yellow capacitor body
SN111	A111	NGB24-0037006-0001.C111	Blue capacitor body
SN112	A112	NGB24-0037006-0001.C112	Blue capacitor body
SN113	A113	NGB24-0037006-0001.C113	Black rectifier bridge body
SN114	A114	NGB24-0037006-0001.C114	Black rectifier bridge body
SN115	A115	NGB24-0037006-0001.C115	Black diode body
SN116	A116	NGB24-0037006-0001.C116	Black audion body
SN117	A117	NGB24-0037006-0001.C117	Black diode body
SN118	A118	NGB24-0037006-0001.C118	Silvery metal bracket
SN119	A119	NGB24-0037006-0001.C119	Silvery copper-colored metal lump
SN120	A120	NGB24-0037006-0001.C120	Silvery metal soldering tin
SN121	A121	NGB24-0037006-0001.C121	Green PCB body
SN122	A122	NGB24-0037006-0001.C122	Black plastic piece
SN123	A123	NGB24-0037006-0001.C123	Black plastic lump
SN124	A124	NGB24-0037006-0001.C124	Green plastic bar
SN125	A125	NGB24-0037006-0001.C125	Silvery metal bar
SN126	A126	NGB24-0037006-0001.C126	Black plastic sheath
SN127	A127	NGB24-0037006-0001.C127	Silvery metal board
SN128	A128	NGB24-0037006-0001.C128	White plastic sheath
SN129	A129	NGB24-0037006-0001.C129	Silvery metal lump
SN130	A130	NGB24-0037006-0001.C130	Black electronic components
SN131	A131	NGB24-0037006-0001.C131	Black plastic jacket
SN132	A132	NGB24-0037006-0001.C132	Black plastic jacket
SN133	A133	NGB24-0037006-0001.C133	White plastic jacket
SN134	A134	NGB24-0037006-0001.C134	Red plastic jacket
SN135	A135	NGB24-0037006-0001.C135	Semitransparent plastic lump
SN136	A136	NGB24-0037006-0001.C136	White foam piece
SN137	A137	NGB24-0037006-0001.C137	Black plastic piece
SN138	A138	NGB24-0037006-0001.C138	Blue plastic adhesive tape
SN139	A139	NGB24-0037006-0001.C139	Silvery metal piece
SN140	A140	NGB24-0037006-0001.C140	Gray metal piece



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Verification Result(s):

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified. (Unless otherwise specified, the unit is mg/kg).

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	BL	---	BL
PBDE	BL	BL	BL	BL	BL	BL	---	BL
DEHP	ND	ND	BL	ND	BL	ND	---	BL
BBP	ND	ND	BL	ND	BL	ND	---	BL
DBP	ND	ND	BL	ND	BL	ND	---	BL
DIBP	ND	ND	BL	ND	BL	ND	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	ND	ND	BL	BL	ND	BL	BL
PBB	---	---	---	ND	---	---	BL	BL
PBDE	---	---	---	ND	---	---	BL	BL
DEHP	---	---	---	ND	---	---	BL	BL
BBP	---	---	---	ND	---	---	BL	BL
DBP	---	---	---	ND	---	---	BL	BL
DIBP	---	---	---	ND	---	---	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Pb	BL	23908▲	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	---	BL	ND	---	BL	ND	BL
PBDE	BL	---	BL	ND	---	BL	ND	BL
DEHP	ND	---	BL	BL	---	BL	ND	ND
BBP	ND	---	BL	BL	---	BL	ND	ND
DBP	ND	---	BL	BL	---	BL	ND	ND
DIBP	ND	---	BL	BL	---	BL	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
Pb	ND	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	BL	BL	BL	BL	BL



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Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
PBB	---	ND	---	BL	---	BL	BL	BL
PBDE	---	ND	---	BL	---	BL	BL	BL
DEHP	---	ND	---	ND	---	ND	ND	ND
BBP	---	ND	---	ND	---	ND	ND	ND
DBP	---	ND	---	ND	---	ND	ND	ND
DIBP	---	ND	---	ND	---	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A33	A34	A35	A36	A37	A38	A39	A40
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	---	BL	ND	ND	---	BL	BL
PBDE	BL	---	BL	ND	ND	---	BL	BL
DEHP	ND	---	BL	BL	BL	---	ND	ND
BBP	ND	---	BL	BL	BL	---	ND	ND
DBP	ND	---	BL	BL	BL	---	ND	ND
DIBP	ND	---	BL	BL	BL	---	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A41	A42	A43	A44	A45	A46	A47	A48
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	---	---	---	BL	BL	BL	---
PBDE	BL	---	---	---	BL	BL	BL	---
DEHP	BL	---	---	---	BL	BL	BL	---
BBP	BL	---	---	---	BL	BL	BL	---
DBP	BL	---	---	---	BL	BL	BL	---
DIBP	BL	---	---	---	BL	BL	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A49	A50	A51	A52	A53	A54	A55	A56
Pb	32489▲	30478▲	BL	31162▲	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	---	---	BL	---	ND	BL	BL	ND
PBDE	---	---	BL	---	ND	BL	BL	ND
DEHP	---	---	ND	---	BL	ND	ND	BL
BBP	---	---	ND	---	BL	ND	ND	BL
DBP	---	---	ND	---	BL	ND	ND	BL
DIBP	---	---	ND	---	BL	ND	ND	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS



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Test Item(s)	A57	A58	A59	A60	A61	A62	A63	A64
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	ND	BL	---	ND	ND	---	BL
PBDE	BL	ND	BL	---	ND	ND	---	BL
DEHP	ND	BL	ND	---	ND	ND	---	BL
BBP	ND	BL	ND	---	ND	ND	---	BL
DBP	ND	BL	ND	---	ND	ND	---	BL
DIBP	ND	BL	ND	---	ND	ND	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A65	A66	A67	A68	A69	A70	A71	A72
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	BL	BL	BL
PBDE	BL	BL	BL	BL	BL	BL	BL	BL
DEHP	BL	ND	BL	BL	BL	BL	BL	BL
BBP	BL	ND	BL	BL	BL	BL	BL	BL
DBP	BL	ND	BL	BL	BL	BL	BL	BL
DIBP	BL	ND	BL	BL	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A73	A74	A75	A76	A77	A78	A79	A80
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	---	BL	BL	ND	BL	BL
PBDE	BL	BL	---	BL	BL	ND	BL	BL
DEHP	BL	BL	---	BL	BL	BL	BL	BL
BBP	BL	BL	---	BL	BL	BL	BL	BL
DBP	BL	BL	---	BL	BL	BL	BL	BL
DIBP	BL	BL	---	BL	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A81	A82	A83	A84	A85	A86	A87	A88
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	ND	BL	BL	BL	BL
PBB	---	BL	BL	BL	BL	BL	BL	BL



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Test Item(s)	A81	A82	A83	A84	A85	A86	A87	A88
PBDE	---	BL	BL	BL	BL	BL	BL	BL
DEHP	---	BL	BL	BL	ND	BL	BL	BL
BBP	---	BL	BL	BL	ND	BL	BL	BL
DBP	---	BL	BL	BL	ND	BL	BL	BL
DIBP	---	BL	BL	BL	ND	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A89	A90	A91	A92	A93	A94	A95	A96
Pb	BL	BL	BL	BL	BL	66	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	ND	BL	BL
PBB	---	BL	BL	BL	BL	---	ND	BL
PBDE	---	BL	BL	BL	BL	---	ND	BL
DEHP	---	ND	ND	BL	BL	---	BL	BL
BBP	---	ND	ND	BL	BL	---	BL	BL
DBP	---	ND	ND	BL	BL	---	BL	BL
DIBP	---	ND	ND	BL	BL	---	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A97	A98	A99	A100	A101	A102	A103	A104
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	ND	---	BL	BL	ND	BL	BL	BL
PBDE	ND	---	BL	BL	ND	BL	BL	BL
DEHP	ND	---	ND	ND	ND	BL	ND	ND
BBP	ND	---	ND	ND	ND	BL	ND	ND
DBP	ND	---	ND	ND	ND	BL	ND	ND
DIBP	ND	---	ND	ND	ND	BL	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A105	A106	A107	A108	A109	A110	A111	A112
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	ND	ND	ND	---	ND	BL	BL	BL
PBDE	ND	ND	ND	---	ND	BL	BL	BL
DEHP	ND	ND	ND	---	ND	BL	ND	ND
BBP	ND	ND	ND	---	ND	BL	ND	ND
DBP	ND	ND	ND	---	ND	BL	ND	ND
DIBP	ND	ND	ND	---	ND	BL	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS



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Test Item(s)	A113	A114	A115	A116	A117	A118	A119	A120
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	ND	BL
PBB	ND	BL	BL	ND	BL	---	---	---
PBDE	ND	BL	BL	ND	BL	---	---	---
DEHP	BL	BL	BL	BL	BL	---	---	---
BBP	BL	BL	BL	BL	BL	---	---	---
DBP	BL	BL	BL	BL	BL	---	---	---
DIBP	BL	BL	BL	BL	BL	---	---	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A121	A122	A123	A124	A125	A126	A127	A128
Pb	BL	BL	BL	BL	BL	BL	ND	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	ND	BL	BL	BL
PBB	ND	BL	BL	BL	---	BL	---	BL
PBDE	ND	BL	BL	BL	---	BL	---	BL
DEHP	BL	BL	BL	BL	---	BL	---	ND
BBP	BL	BL	BL	BL	---	BL	---	ND
DBP	BL	BL	BL	BL	---	BL	---	ND
DIBP	BL	BL	BL	BL	---	BL	---	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A129	A130	A131	A132	A133	A134	A135	A136
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	---	BL	ND	BL	BL	BL	BL	BL
PBDE	---	BL	ND	BL	BL	BL	BL	BL
DEHP	---	BL	BL	ND	BL	BL	ND	ND
BBP	---	BL	BL	ND	BL	BL	ND	ND
DBP	---	BL	BL	ND	BL	BL	ND	ND
DIBP	---	BL	BL	ND	BL	BL	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A137	A138	A139	A140
Pb	BL	BL	ND	BL
Hg	BL	BL	BL	BL
Cd	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL
PBB	BL	BL	---	---
PBDE	BL	BL	---	---



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Test Item(s)	A137	A138	A139	A140
DEHP	BL	BL	---	---
BBP	BL	BL	---	---
DBP	BL	BL	---	---
DIBP	BL	BL	---	---
Conclusion	PASS	PASS	PASS	PASS



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Notes:

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

(a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-1:2013 Annex A as below table.

Element	Polymers	Metals	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	Not applicable	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or Cr are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".

(c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL = Over Limit, IN (The symbol X marks the region) = Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBB/PBDE) are recommended to be performed.

(d) The EDXRF screening test for elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) below the limits are shown as "BL". Further chemical testing by GC-MS is to be performed if the results exceed limits.

Test Items	CAS No.
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
Butyl benzyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Diisobutyl phthalate (DIBP)	84-69-5

(3) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL = Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

(b) Unit and MDL in wet chemical test

Test Items	Pb	Hg	Cd	DEHP	BBP	DBP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBB and PBDE is 100 mg/kg,

MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.

MDL of Cr(VI) for metal sample is 0.10 µg/cm².

(c) ▼ = Metal sample

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus



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Cr(VI) results represent status of the sample at the time of testing.

(4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBB/PBDE/DEHP/BBP/DBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.

(5) IEC 62321 series is equivalent to EN 62321 series.

(6)▲=According to the declaration from the client, Lead (Pb) in A18, A49, A50 and A52 are exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 6(c)]: Copper alloy containing up to 4 % lead by weight. More information about exemption can be found via the following link:
<https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>

(7) Battery is not in the scope of RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU. The test results do not include the result of battery core.

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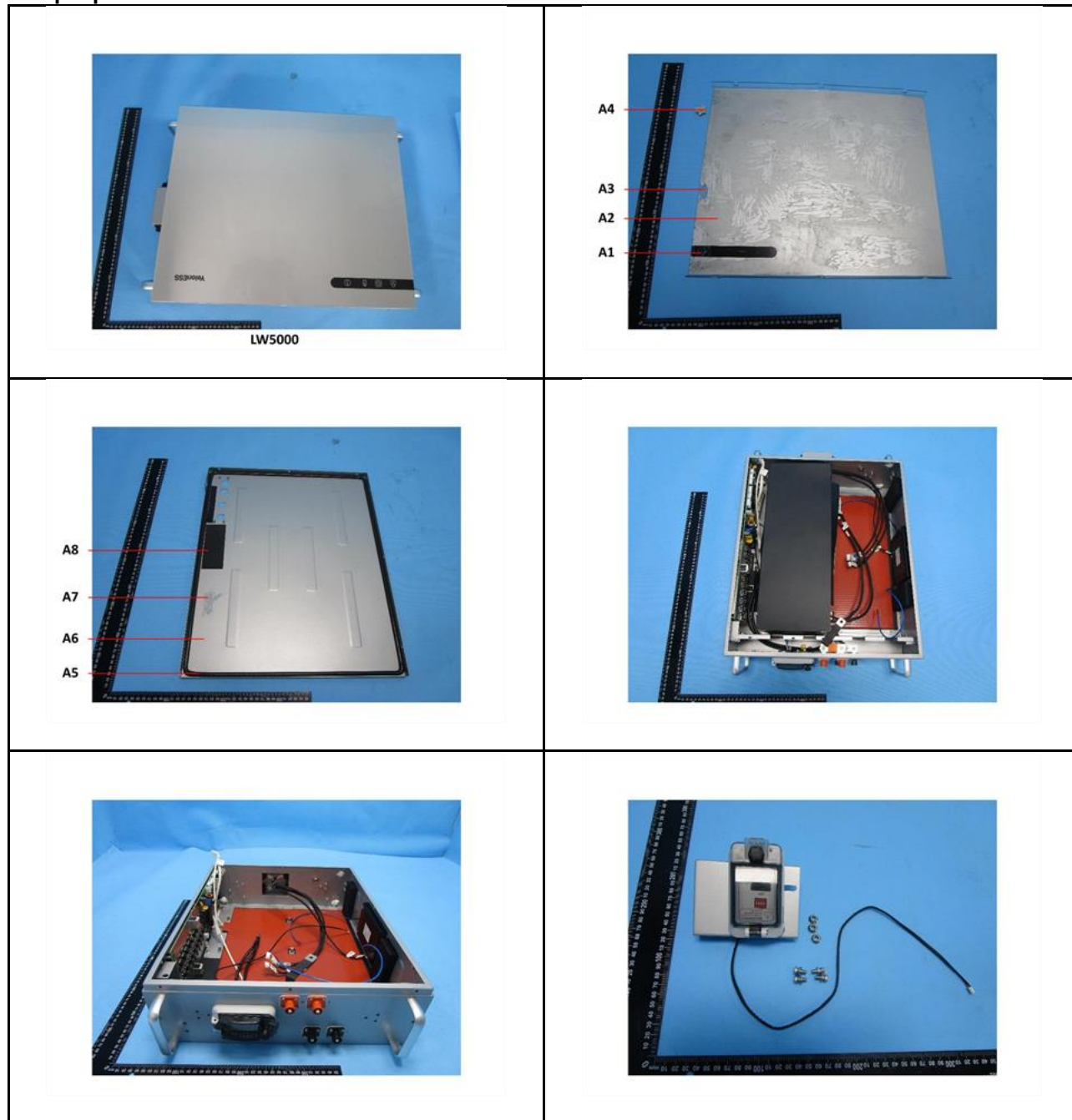
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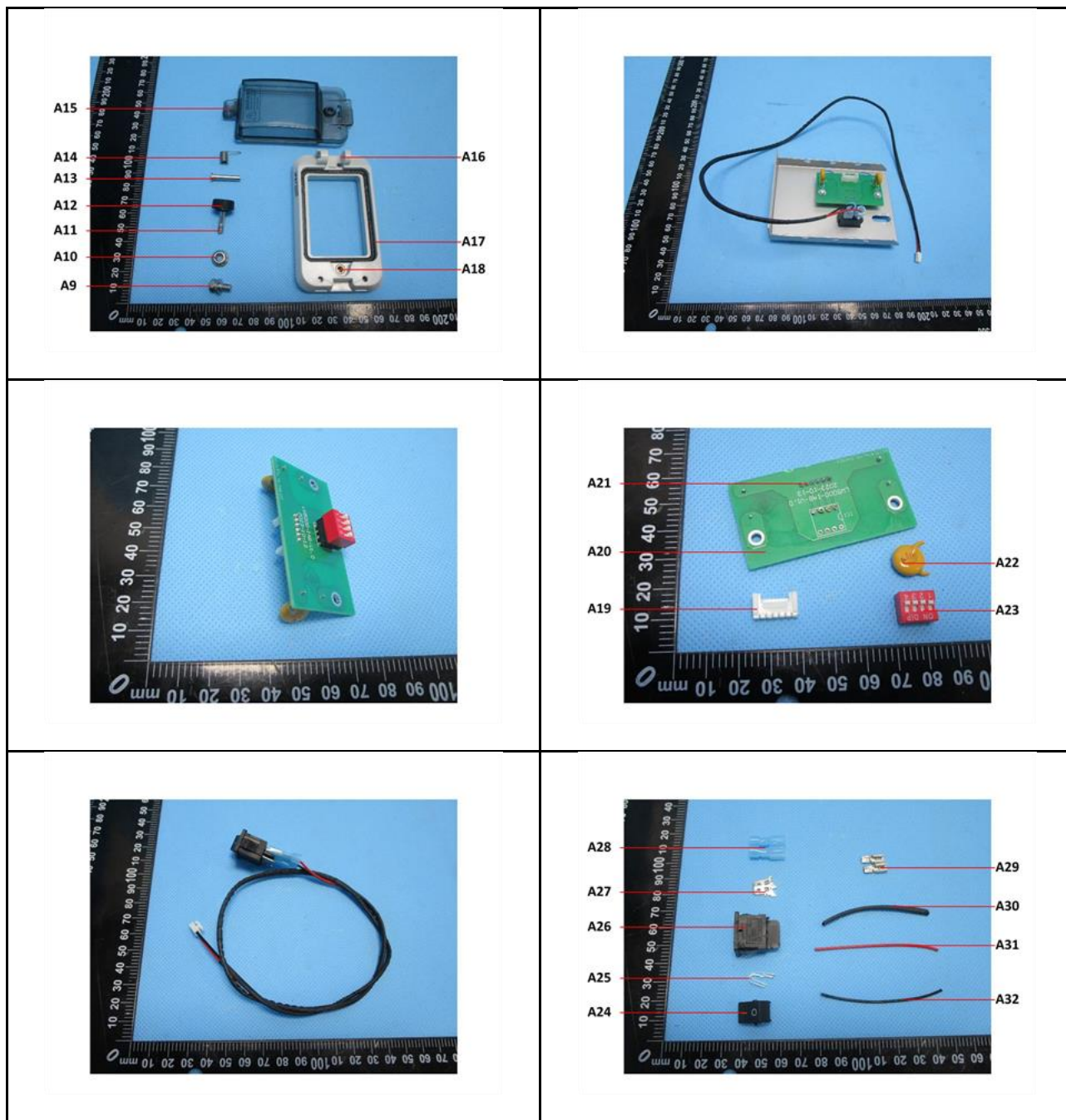
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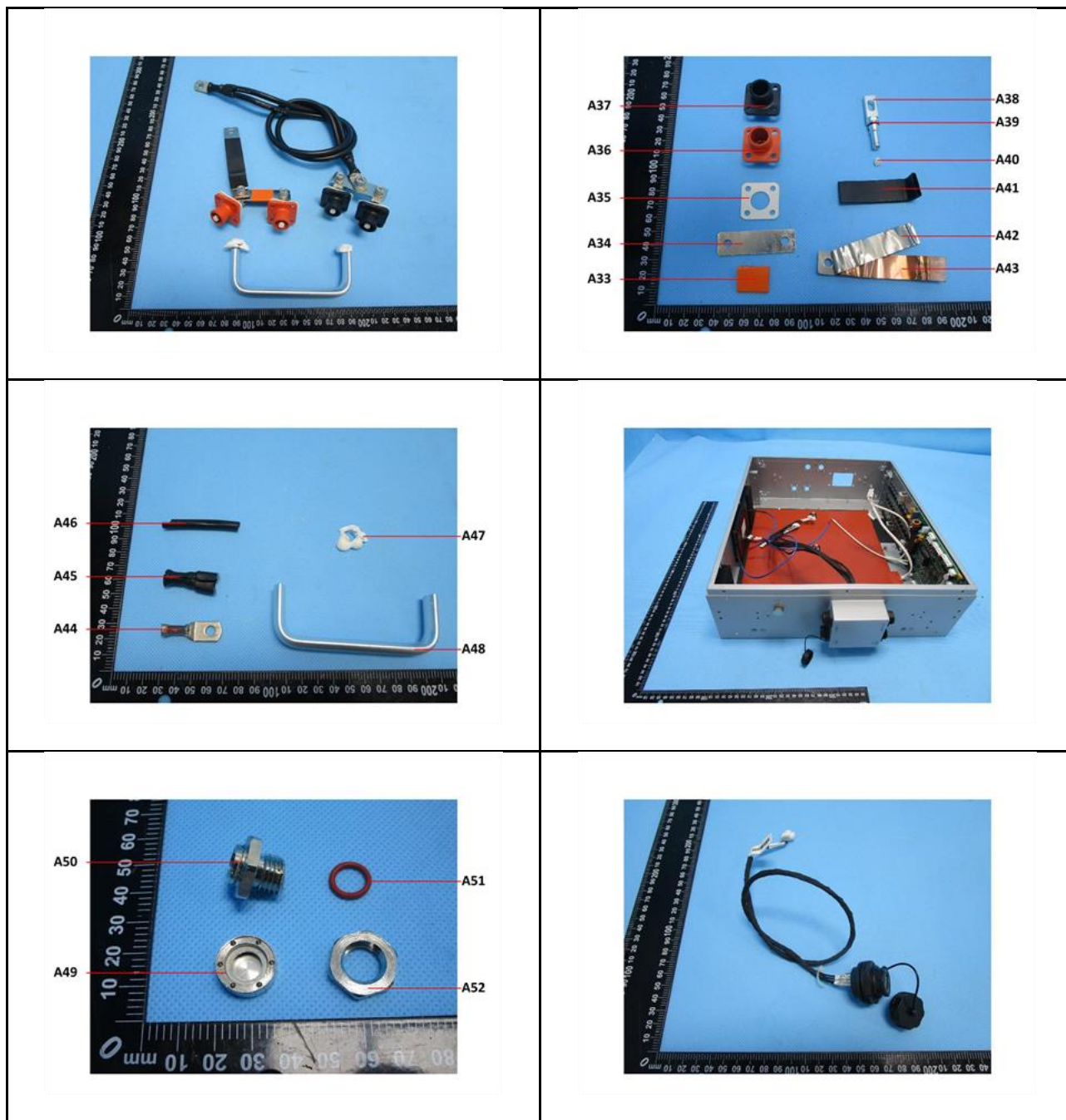
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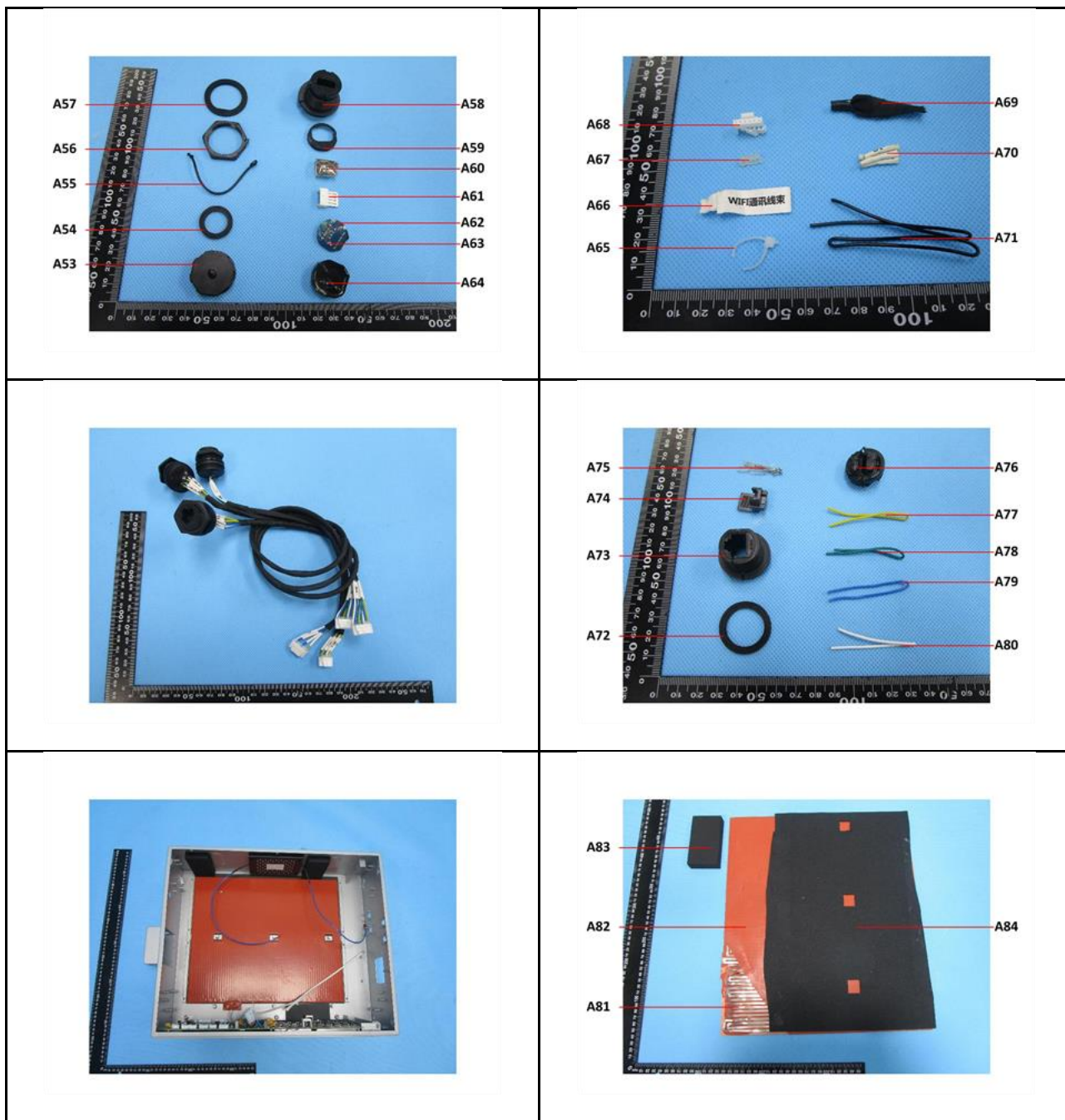
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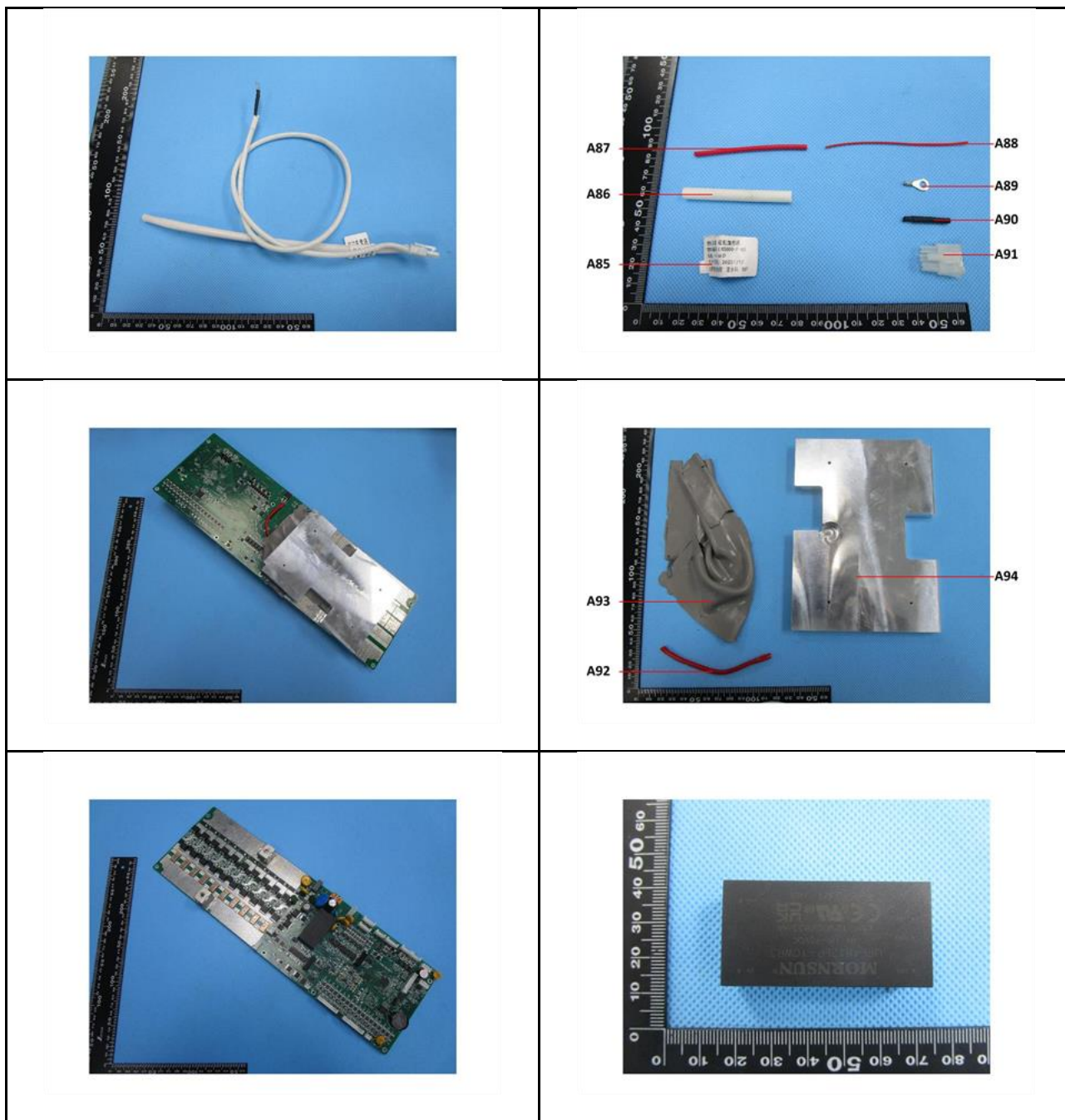
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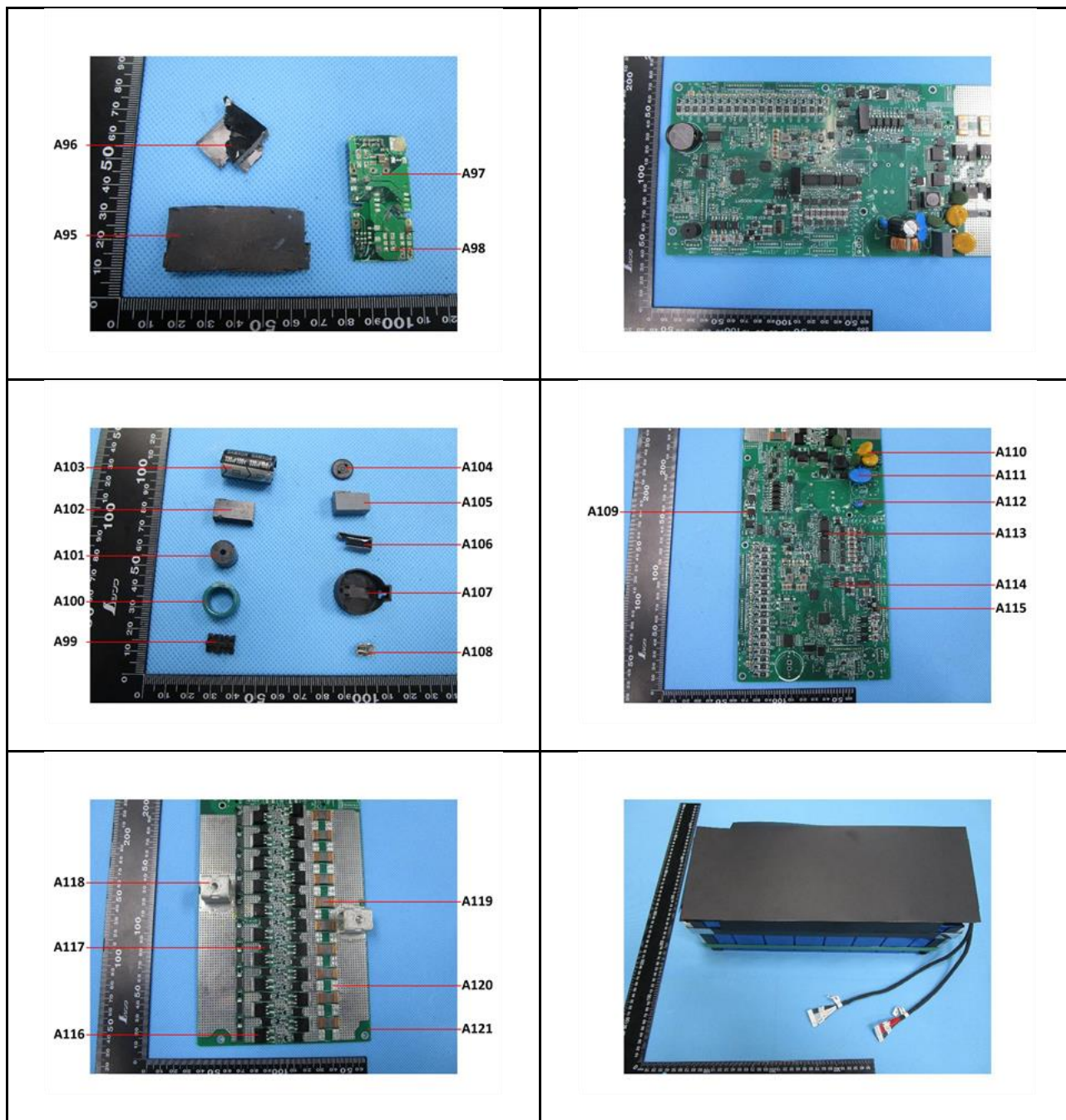














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