

Test Report

No.: SHAEC24014367501

Date: Sep 11, 2024

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Client Name: Renac Power Technology Co., Ltd.

Client Address: Block C-12, No. 20 Datong Road, Comprehensive Bonded Zone, Suzhou Hi-Tech District, Suzhou, China

Sample Name: Rechargeable Li-ion Battery System

Client Ref. Information: TB-H4-5,
TB-H4-10, TB-H4-15, TB-H4-20,
TB-H4-25, TB-H4-30

The above sample(s) and information were provided by the client.

SGS Job No.: SHP24-020654

Sample Receiving Date: Jul 01, 2024

Testing Period: Jul 01, 2024 ~ Jul 29, 2024

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organotin compounds	Pass
Regulation (EU) No 2023/1542 Article 6(1), Entry 50 of Regulation (EU) 2021/1199 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
Regulation (EU) No 2023/1542 Article 6(1), Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Jenny Lan
Approved Signatory

scan to see the report



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Test Result(s):

Photo of Submitted Sample



SHA24-0143675

SGS authenticate the photo on original report only

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0143675-0001.C001	Black plastic
SN2	A2	SHA24-0143675-0001.C002	Black plastic
SN3	A3	SHA24-0143675-0001.C003	Black plastic
SN4	A4	SHA24-0143675-0001.C004	Black plastic
SN5	A5	SHA24-0143675-0001.C005	Black soft plastic
SN6	A6	SHA24-0143675-0001.C006	Black plastic
SN7	A7	SHA24-0143675-0001.C007	Black soft plastic
SN8	A8	SHA24-0143675-0001.C008	Yellow/Green soft plastic
SN9	A9	SHA24-0143675-0001.C009	White soft plastic
SN10	A10	SHA24-0143675-0001.C010	Black plastic
SN11	A11	SHA24-0143675-0001.C011	Black soft plastic
SN12	A12	SHA24-0143675-0001.C012	Black adhesive plastic
SN13	A13	SHA24-0143675-0001.C013	White plastic
SN14	A14	SHA24-0143675-0001.C014	White plastic
SN15	A15	SHA24-0143675-0001.C015	Red plastic
SN16	A16	SHA24-0143675-0001.C016	Black plastic
SN17	A17	SHA24-0143675-0001.C017	Brown rubber
SN18	A18	SHA24-0143675-0001.C018	Black plastic
SN19	A19	SHA24-0143675-0001.C019	Black adhesive plastic
SN20	A20	SHA24-0143675-0001.C020	Black adhesive
SN21	A21	SHA24-0143675-0001.C021	White adhesive plastic



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SN ID	Sample No.	SGS Sample ID	Description
SN22	A22	SHA24-0143675-0001.C022	Gray adhesive
SN23	A23	SHA24-0143675-0001.C023	Green FPC
SN24	A24	SHA24-0143675-0001.C024	Black plastic
SN25	A25	SHA24-0143675-0001.C025	Green FPC
SN26	A26	SHA24-0143675-0001.C026	Gray plastic
SN27	A27	SHA24-0143675-0001.C027	White rubber
SN28	A28	SHA24-0143675-0001.C028	Beige plastic
SN29	A29	SHA24-0143675-0001.C029	White plastic
SN30	A30	SHA24-0143675-0001.C030	Red plastic
SN31	A31	SHA24-0143675-0001.C031	Black plastic
SN32	A32	SHA24-0143675-0001.C032	White plastic
SN33	A33	SHA24-0143675-0001.C033	White soft plastic
SN34	A34	SHA24-0143675-0001.C034	Black soft plastic
SN35	A35	SHA24-0143675-0001.C035	Black soft plastic
SN36	A36	SHA24-0143675-0001.C036	White soft plastic
SN37	A37	SHA24-0143675-0001.C037	Orange soft plastic
SN38	A38	SHA24-0143675-0001.C038	Red soft plastic
SN39	A39	SHA24-0143675-0001.C039	Blue soft plastic
SN40	A40	SHA24-0143675-0001.C040	Black plastic
SN41	A41	SHA24-0143675-0001.C041	Black plastic
SN42	A42	SHA24-0143675-0001.C042	Black rubber
SN43	A43	SHA24-0143675-0001.C043	Black epoxy
SN44	A44	SHA24-0143675-0001.C044	Green PCB
SN45	A45	SHA24-0143675-0001.C045	Black plastic
SN46	A46	SHA24-0143675-0001.C046	Black plastic
SN47	A47	SHA24-0143675-0001.C047	White plastic
SN48	A48	SHA24-0143675-0001.C048	White soft plastic
SN49	A49	SHA24-0143675-0001.C049	White fibreglass
SN50	A50	SHA24-0143675-0001.C050	Green soft plastic
SN51	A51	SHA24-0143675-0001.C051	Yellow soft plastic
SN52	A52	SHA24-0143675-0001.C052	Blue soft plastic
SN53	A53	SHA24-0143675-0001.C053	Black plastic
SN54	A54	SHA24-0143675-0001.C054	Black plastic
SN55	A55	SHA24-0143675-0001.C055	Black rubber
SN56	A56	SHA24-0143675-0001.C056	Green PCB
SN57	A57	SHA24-0143675-0001.C057	White plastic
SN58	A58	SHA24-0143675-0001.C058	Black plastic
SN59	A59	SHA24-0143675-0001.C059	Black fibreglass
SN60	A60	SHA24-0143675-0001.C060	Black plastic
SN61	A61	SHA24-0143675-0001.C061	White rubber
SN62	A62	SHA24-0143675-0001.C062	Black soft plastic
SN63	A63	SHA24-0143675-0001.C063	White soft plastic
SN64	A64	SHA24-0143675-0001.C064	Black soft plastic
SN65	A65	SHA24-0143675-0001.C065	Black plastic
SN66	A66	SHA24-0143675-0001.C066	Black soft plastic
SN67	A67	SHA24-0143675-0001.C067	Red soft plastic
SN68	A68	SHA24-0143675-0001.C068	White soft plastic
SN69	A69	SHA24-0143675-0001.C069	White plastic
SN70	A70	SHA24-0143675-0001.C070	Black plastic



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SN ID	Sample No.	SGS Sample ID	Description
SN71	A71	SHA24-0143675-0001.C071	Black plastic
SN72	A72	SHA24-0143675-0001.C072	Black adhesive rubber
SN73	A73	SHA24-0143675-0001.C073	Orange plastic
SN74	A74	SHA24-0143675-0001.C074	Purple plastic
SN75	A75	SHA24-0143675-0001.C075	Red plastic
SN76	A76	SHA24-0143675-0001.C076	Beige plastic
SN77	A77	SHA24-0143675-0001.C077	Beige plastic
SN78	A78	SHA24-0143675-0001.C078	Beige plastic
SN79	A79	SHA24-0143675-0001.C079	Purple plastic
SN80	A80	SHA24-0143675-0001.C080	Purple plastic
SN81	A81	SHA24-0143675-0001.C081	Black plastic
SN82	A82	SHA24-0143675-0001.C082	Black plastic
SN83	A83	SHA24-0143675-0001.C083	Black plastic
SN84	A84	SHA24-0143675-0001.C084	Black plastic
SN85	A85	SHA24-0143675-0001.C085	Black plastic
SN86	A86	SHA24-0143675-0001.C086	Black plastic
SN87	A87	SHA24-0143675-0001.C087	Red plastic
SN88	A88	SHA24-0143675-0001.C088	Red soft plastic
SN89	A89	SHA24-0143675-0001.C089	White soft plastic
SN90	A90	SHA24-0143675-0001.C090	Red plastic
SN91	A91	SHA24-0143675-0001.C091	Red soft plastic
SN92	A92	SHA24-0143675-0001.C092	Black plastic
SN93	A93	SHA24-0143675-0001.C093	Black plastic
SN94	A94	SHA24-0143675-0001.C094	Orange plastic
SN95	A95	SHA24-0143675-0001.C095	Black plastic
SN96	A96	SHA24-0143675-0001.C096	Black plastic
SN97	A97	SHA24-0143675-0001.C097	Black plastic
SN98	A98	SHA24-0143675-0001.C098	Black plastic
SN99	A99	SHA24-0143675-0001.C099	Brown plastic
SN100	A100	SHA24-0143675-0001.C100	Brown plastic
SN101	A101	SHA24-0143675-0001.C101	Brown plastic
SN102	A102	SHA24-0143675-0001.C102	Green PCB
SN103	A103	SHA24-0143675-0001.C103	Black plastic
SN104	A104	SHA24-0143675-0001.C104	Beige adhesive
SN105	A105	SHA24-0143675-0001.C105	Beige plastic
SN106	A106	SHA24-0143675-0001.C106	Beige plastic
SN107	A107	SHA24-0143675-0001.C107	Black plastic
SN108	A108	SHA24-0143675-0001.C108	Green PCB
SN109	A109	SHA24-0143675-0001.C109	Brown plastic
SN110	A110	SHA24-0143675-0001.C110	Silvery battery
SN111	A111	SHA24-0143675-0001.C111	Yellow adhesive plastic
SN112	A112	SHA24-0143675-0001.C112	White adhesive plastic
SN113	A113	SHA24-0143675-0001.C113	Black plastic
SN114	A114	SHA24-0143675-0001.C114	White plastic
SN115	A115	SHA24-0143675-0001.C115	Beige plastic
SN116	A116	SHA24-0143675-0001.C116	Beige plastic
SN117	A117	SHA24-0143675-0001.C117	Gray plastic
SN118	A118	SHA24-0143675-0001.C118	White epoxy
SN119	A119	SHA24-0143675-0001.C119	Black plastic



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SN ID	Sample No.	SGS Sample ID	Description
SN120	A120	SHA24-0143675-0001.C120	Black plastic
SN121	A121	SHA24-0143675-0001.C121	White capacitor
SN122	A122	SHA24-0143675-0001.C122	Black plastic
SN123	A123	SHA24-0143675-0001.C123	Black plastic
SN124	A124	SHA24-0143675-0001.C124	Black plastic
SN125	A125	SHA24-0143675-0001.C125	White plastic
SN126	A126	SHA24-0143675-0001.C126	Black soft plastic
SN127	A127	SHA24-0143675-0001.C127	Blue plastic
SN128	A128	SHA24-0143675-0001.C128	Green plastic
SN129	A129	SHA24-0143675-0001.C129	Black IC
SN130	A130	SHA24-0143675-0001.C130	Green PCB
SN131	A131	SHA24-0143675-0001.C131	Gray adhesive
SN132	A132	SHA24-0143675-0001.C132	Gray plastic
SN133	A133	SHA24-0143675-0001.C133	Black foam
SN134	A134	SHA24-0143675-0001.C134	Orange plastic
SN135	A135	SHA24-0143675-0001.C135	Orange plastic
SN136	A136	SHA24-0143675-0001.C136	Orange plastic
SN137	A137	SHA24-0143675-0001.C137	White rubber
SN138	A138	SHA24-0143675-0001.C138	Red soft plastic
SN139	A139	SHA24-0143675-0001.C139	Black plastic
SN140	A140	SHA24-0143675-0001.C140	Black plastic
SN141	A141	SHA24-0143675-0001.C141	Black plastic
SN142	A142	SHA24-0143675-0001.C142	White rubber
SN143	A143	SHA24-0143675-0001.C143	Black plastic
SN144	A144	SHA24-0143675-0001.C144	Black plastic
SN145	A145	SHA24-0143675-0001.C145	Black rubber
SN146	A146	SHA24-0143675-0001.C146	Black plastic
SN147	A147	SHA24-0143675-0001.C147	Black plastic
SN148	A148	SHA24-0143675-0001.C148	Transparent plastic
SN149	A149	SHA24-0143675-0001.C149	Black soft plastic
SN150	A150	SHA24-0143675-0001.C150	Transparent plastic
SN151	A151	SHA24-0143675-0001.C151	Blue soft plastic
SN152	A152	SHA24-0143675-0001.C152	White/Blue soft plastic
SN153	A153	SHA24-0143675-0001.C153	White/Brown soft plastic
SN154	A154	SHA24-0143675-0001.C154	Brown soft plastic
SN155	A155	SHA24-0143675-0001.C155	White/Orange soft plastic
SN156	A156	SHA24-0143675-0001.C156	Orange soft plastic
SN157	A157	SHA24-0143675-0001.C157	Green soft plastic
SN158	A158	SHA24-0143675-0001.C158	White/Green soft plastic
SN159	A159	SHA24-0143675-0001.C159	Gray plastic
SN160	A160	SHA24-0143675-0001.C160	Green PCB
SN161	A161	SHA24-0143675-0001.C161	Gray adhesive
SN162	A162	SHA24-0143675-0001.C162	Green PCB
SN163	A163	SHA24-0143675-0001.C163	White plastic
SN164	A164	SHA24-0143675-0001.C164	Green PCB
SN165	A165	SHA24-0143675-0001.C165	Transparent plastic
SN166	A166	SHA24-0143675-0001.C166	Beige plastic
SN167	A167	SHA24-0143675-0001.C167	White plastic
SN168	A168	SHA24-0143675-0001.C168	White plastic



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SN ID	Sample No.	SGS Sample ID	Description
SN169	A169	SHA24-0143675-0001.C169	Gray plastic
SN170	A170	SHA24-0143675-0001.C170	Silvery capacitor
SN171	A171	SHA24-0143675-0001.C171	Green PCB
SN172	A172	SHA24-0143675-0001.C172	Gray plastic
SN173	A173	SHA24-0143675-0001.C173	Black plastic
SN174	A174	SHA24-0143675-0001.C174	Black plastic
SN175	A175	SHA24-0143675-0001.C175	Black soft plastic
SN176	A176	SHA24-0143675-0001.C176	Black soft plastic
SN177	A177	SHA24-0143675-0001.C177	White rubber
SN178	A178	SHA24-0143675-0001.C178	Blue soft plastic
SN179	A179	SHA24-0143675-0001.C179	Black adhesive fibre
SN180	A180	SHA24-0143675-0001.C180	Beige plastic
SN181	A181	SHA24-0143675-0001.C181	Brown solid
SN182	A182	SHA24-0143675-0001.C182	Beige adhesive
SN183	A183	SHA24-0143675-0001.C183	Gray adhesive
SN184	A184	SHA24-0143675-0001.C184	Black plastic
SN185	A185	SHA24-0143675-0001.C185	Black adhesive plastic
SN186	A186	SHA24-0143675-0001.C186	Black soft plastic
SN187	A187	SHA24-0143675-0001.C187	Orange plastic
SN188	A188	SHA24-0143675-0001.C188	Yellow adhesive plastic
SN189	A189	SHA24-0143675-0001.C189	Beige plastic
SN190	A190	SHA24-0143675-0001.C190	Transparent adhesive
SN191	A191	SHA24-0143675-0001.C191	Black adhesive
SN192	A192	SHA24-0143675-0001.C192	Red soft plastic
SN193	A193	SHA24-0143675-0001.C193	Green PCB
SN194	A194	SHA24-0143675-0001.C194	Blue adhesive plastic
SN195	A195	SHA24-0143675-0001.C195	Black adhesive plastic
SN196	A196	SHA24-0143675-0001.C196	Green plastic
SN197	A197	SHA24-0143675-0001.C197	Transparent plastic
SN198	A198	SHA24-0143675-0001.C198	White plastic
SN199	A199	SHA24-0143675-0001.C199	Black solid
SN200	A200	SHA24-0143675-0001.C200	Gray solid
SN201	A201	SHA24-0143675-0001.C201	Black plastic
SN202	A202	SHA24-0143675-0001.C202	Black plastic
SN203	A203	SHA24-0143675-0001.C203	Black adhesive
SN204	A204	SHA24-0143675-0001.C204	Yellow adhesive plastic
SN205	A205	SHA24-0143675-0001.C205	Brown plastic
SN206	A206	SHA24-0143675-0001.C206	Black plastic
SN207	A207	SHA24-0143675-0001.C207	Black rubber
SN208	A19+A111	SHA24-0143675-0002	Black adhesive plastic + Yellow adhesive plastic
SN209	A34+A42	SHA24-0143675-0003	Black soft plastic + Black rubber
SN210	A108+A180	SHA24-0143675-0004	Green PCB + Beige plastic

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated



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Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Tin Screening for Organotin

Test Method: SGS In-house method, analysis was performed by EDXRF.

Test Item(s)	Unit(s)	MDL	A1	A2	A3
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A4	A5	A6
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A7	A8	A9
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A10	A11	A12
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A13	A14	A15
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A16	A17	A18
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A19	A20	A21
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A22	A23	A24
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A25	A26	A27
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A28	A29	A30
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A31	A32	A33
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass



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Test Item(s)	Unit(s)	MDL	A34	A35	A36
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A37	A38	A39
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A40	A41	A42
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A43	A44	A45
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A46	A47	A48
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A49	A50	A51
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A52	A53	A54
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A55	A56	A57
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A58	A59	A60
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A61	A62	A63
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A64	A65	A66
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A67	A68	A69
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass



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Test Item(s)	Unit(s)	MDL	A70	A71	A72
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A73	A74	A75
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A76	A77	A78
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A79	A80	A81
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A82	A83	A84
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A85	A86	A87
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A88	A89	A90
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A91	A92	A93
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A94	A95	A96
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A97	A98	A99
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A100	A101	A102
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A103	A104	A105
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass



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Test Item(s)	Unit(s)	MDL	A106	A107	A108
Tin (Sn)	mg/kg	700	<700	>700#	<700
Conclusion			Pass	See Result	Pass

Test Item(s)	Unit(s)	MDL	A109	A111	A112
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A113	A114	A115
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A116	A117	A118
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A119	A120	A122
Tin (Sn)	mg/kg	700	<700	<700	>700#
Conclusion			Pass	Pass	See Result

Test Item(s)	Unit(s)	MDL	A123	A124	A125
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A126	A127	A128
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A130	A131	A132
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A133	A134	A135
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A136	A137	A138
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A139	A140	A141
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A142	A143	A144
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass



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Test Item(s)	Unit(s)	MDL	A145	A146	A147
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A148	A149	A150
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A151	A152	A153
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A154	A155	A156
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A157	A158	A159
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A160	A161	A162
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A163	A164	A165
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A166	A167	A168
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A169	A171	A172
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A173	A174	A175
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A176	A177	A178
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A179	A180	A181
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass



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Test Item(s)	Unit(s)	MDL	A182	A183	A184
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A185	A186	A187
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A188	A189	A190
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A191	A192	A193
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A194	A195	A196
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A197	A198	A199
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A200	A201	A202
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A203	A204	A205
Tin (Sn)	mg/kg	700	<700	<700	<700
Conclusion			Pass	Pass	Pass

Test Item(s)	Unit(s)	MDL	A206	A207
Tin (Sn)	mg/kg	700	<700	<700
Conclusion			Pass	Pass

Notes:

- (1) Confirmation test of organic tin is not required in case of Total Tin, after conversion, does not exceed the Organotin by weight of Tin requirement as specified in Entry 20 of Annex XVII.
- (2) # = If the Total Tin content is over 700 mg/kg, it is strongly recommended to perform further Organotin test to check the compliance with Entry 20 of REACH ANNEX XVII.

Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organotin compounds

Test Method: With reference to ISO 17353:2004, analysis was performed by GC-MS.



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Test Item(s)	Limit	Unit(s)	MDL	A107	A110	A122
Tributyltin(TBT) by Weight of Tin	-	%	0.01	ND	ND	ND
Tricyclohexyltin(TCyT) by Weight of Tin	-	%	0.01	ND	ND	ND
Trimethyltin(TMT) by Weight of Tin	-	%	0.01	ND	ND	ND
Trioctyltin(TOT) by Weight of Tin	-	%	0.01	ND	ND	ND
Triphenyltin(TPhT) by Weight of Tin	-	%	0.01	ND	ND	ND
Tripropyltin (TPT) by weight of Tin	-	%	0.01	ND	ND	ND
Σ of Tri substituted organotin compounds by Weight of Tin	0.1	%	-	ND	ND	ND
Dioctyltin(DOT) by Weight of Tin	0.1	%	0.01	ND	ND	ND
Dibutyltin(DBT) by Weight of Tin	0.1	%	0.01	ND	ND	ND
Conclusion				Pass	Pass	Pass

Regulation (EU) No 2023/1542 Article 6(1),Entry 50 of Regulation (EU) 2021/1199 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A15	A16	A40
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND	ND	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND	ND	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND	ND	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND	ND	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND	ND	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND	ND	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A139	A180
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A139	A180
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND	ND
Conclusion					Pass	Pass

Regulation (EU) No 2023/1542 Article 6(1), Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances

Test Method: Modified CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A110	A199	A108+A180
C9-C14 PFCA, their salts							
Perfluorononane Acid (PFNA), its salts^	375-95-1	-	µg/kg	10	ND	ND	ND
Perfluorodecane Acid (PFDA), its salts^	335-76-2	-	µg/kg	10	ND	ND	ND
Perfluoroundecanoic Acid (PFUnDA), its salts^	2058-94-8	-	µg/kg	10	ND	ND	ND
Perfluorododecanoic Acid (PFDoDA), its salts^	307-55-1	-	µg/kg	10	ND	ND	ND
Perfluorotridecanoic Acid (PFTrDA), its salts^	72629-94-8	-	µg/kg	10	ND	ND	ND
Perfluorotetradecanoic Acid (PFTDA), its salts^	376-06-7	-	µg/kg	10	ND	ND	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	-	µg/kg	10	ND	ND	ND
Sum of C9-C14 PFCA, their salts	-	25	µg/kg	-	ND	ND	ND
C9-C14 PFCA-related substances							
Perfluorodecane sulfonic acid (PFDS), its salts^	335-77-3	-	µg/kg	10	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A110	A199	A108+A180
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	-	µg/kg	10	ND	ND	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	-	µg/kg	100	ND	ND	ND
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	-	µg/kg	10	ND	ND	ND
Perfluoroundecane sulfonic acid (PFUnDS), its salts^	749786-16-1	-	µg/kg	10	ND	ND	ND
Perfluorododecane sulfonic acid (PFDoDS), its salts^	79780-39-5	-	µg/kg	10	ND	ND	ND
Perfluorotridecane sulfonic acid (PFTrDS), its salts^	791563-89-8	-	µg/kg	10	ND	ND	ND
10:2 Fluorotelomerphosphatediester (10:2 diPAP)	1895-26-7	-	µg/kg	100	ND	ND	ND
Perfluorodecyl iodide (PFDI)	423-62-1	-	µg/kg	100	ND	ND	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	-	µg/kg	100	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A110	A199	A108+A180
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts^	39108-34-4	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	µg/kg	100	ND	ND	ND
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA), its salts^	27854-31-5	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	-	µg/kg	100	ND	ND	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	-	µg/kg	100	ND	ND	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts^	678-41-1	-	µg/kg	10	ND	ND	ND
2H,2H,3H,3H-Perfluoroundecanoic Acid (H ₄ PFUnDA/ 8:3 FTCA), its salts^	34598-33-9	-	µg/kg	10	ND	ND	ND
1H,1H,2H-Heptafluoro-1-decene (PFDE)	21652-58-4	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyltrichlorosilane/ 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane	78560-44-8 /83048-65-1	-	µg/kg	100	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A110	A199	A108+A180
1H,1H,2H,2H-Perfluorodecylmethyldichlorosilane	3102-79-2	-	µg/kg	100	ND	ND	ND
2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	-	µg/kg	10	ND	ND	ND
2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	-	µg/kg	10	ND	ND	ND
Sum of C9-C14 PFCA-related substances	-	260	µg/kg	-	ND	ND	ND
Conclusion					Pass	Pass	Pass

Notes:

- (1) 1µg/kg=1ppb.
- (2) Until 25 August 2024, the concentration limit for the sum of C9-C14 PFCA in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups. From 25 August 2024, the concentration limit shall be 100 ppb for the sum of C9-C14 PFCA, in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups.
- (3) The concentration limit shall be 1000ppb for the sum of C9-C14 PFCA, where these are present in PTFE micro powders produced by ionising irradiation or by thermal degradation, as well as in mixtures and articles for industrial and professional uses containing PTFE micro powders.
- (4) ^=Substances refer to its salts/derivative listed in below table.

Substance Name	CAS No.
PFNA, its salts	
Perfluorononane Acid (PFNA)	375-95-1
Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8
Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH ₄)	4149-60-4
Potassium perfluorononanoate (PFNA-K)	21049-38-7
Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3
Silver perfluorononanoate (PFNA-Ag)	7358-16-9
Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))	77032-23-6
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-ethylethanamine (1:1) (PFNA-NH ₂ (C ₂ H ₅) ₂)	77032-27-0
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-methylmethanamine (1:1) (PFNA-NH ₂ (CH ₃) ₂)	77032-24-7
Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃)	327176-80-7
Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀))	95682-66-9
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with benzenamine (1:1) (PFNA-NH ₃ (C ₆ H ₅))	95682-67-0
Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH ₃ (C ₆ H ₁₁))	328531-06-2
Perfluorononanoate (anion)	72007-68-2



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PFDA, its salts	
Perfluorodecane Acid (PFDA)	335-76-2
Sodium perfluorodecanoate (PFDA-Na)	3830-45-3
Perfluorodecanoate ammonium salt (PFDA-NH ₄)	3108-42-7
Potassium perfluorodecanoate (PFDA-K)	51604-85-4
Silver perfluorodecanoate (PFDA-Ag)	5784-82-7
Lithium perfluorodecanoate (PFDA-Li)	84743-32-8
Perfluorodecanoate (anion)	73829-36-4
PFUnDA, its salts	
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8
Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7
Ammonium perfluoroundecanoate (PFUnDA-NH ₄)	4234-23-5
Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8
Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2
Perfluoroundecanoate (anion)	196859-54-8
PFDODA, its salts	
Perfluorododecanoic Acid (PFDODA)	307-55-1
Ammonium tricosafuorododecanoate (PFDODA-NH ₄)	3793-74-6
Sodium perfluorododecanoate (PFDODA-Na)	60872-01-7
Perfluorododecanoate (anion)	171978-95-3
PFTrDA, its salts	
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8
Ammonium perfluorotridecanoate (PFTrDA-NH ₄)	4288-72-6
Perfluorotridecanoate (anion)	862374-87-6
PFTDA, its salts	
Perfluorotetradecanoic Acid (PFTDA)	376-06-7
Perfluorotetradecanoate (anion)	365971-87-5
PFDS, its salts	
Perfluorodecane Sulfonate (PFDS)	335-77-3
Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7
Perfluorodecanesulfonate K-salt (PFDS-K)	2806-16-8
Perfluorodecanesulfonic acid ammonium salt (PFDS-NH ₄)	67906-42-7
Perfluorodecane sulfonate (anion)	126105-34-8
PFNS, its salts	
Perfluoro nonane sulfonic acid (PFNS)	68259-12-1
Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2
ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4
Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5
Perfluorononane sulfonate (anion)	474511-07-4
PFUnDS, its salts	
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1
Perfluoroundecanesulfonate (anion)	441296-91-9
PFDODS, its salts	
Perfluorododecanesulfonic acid (PFDODS)	79780-39-5
Sodium perfluoro-1-dodecanesulfonate (PFDODS-Na)	1260224-54-1
Potassium perfluorododecanesulfonate (PFDODS-K)	85187-17-3
Perfluorododecane sulfonate (anion)	343629-43-6
PFTrDS, its salts	
Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8



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Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1
8:2 FTS, its salts	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4
Potassium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-K)	438237-73-1
Ammonium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-NH ₄)	149724-40-3
Sodium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-Na)	27619-96-1
H₂PFDA/8:2 FTCA, its salts	
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA)	27854-31-5
Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7
8:2diPAP, its salts	
Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)hydrogen phosphate (8:2diPAP)	678-41-1
Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6
H₄PFUnDA/ 8:3 FTCA, its salts	
2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnDA/ 8:3 FTCA)	34598-33-9
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H ₄ PFUnDA-K)	83310-58-1

Remark:

Test was conducted on composite of random parts of the item as per client's request. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

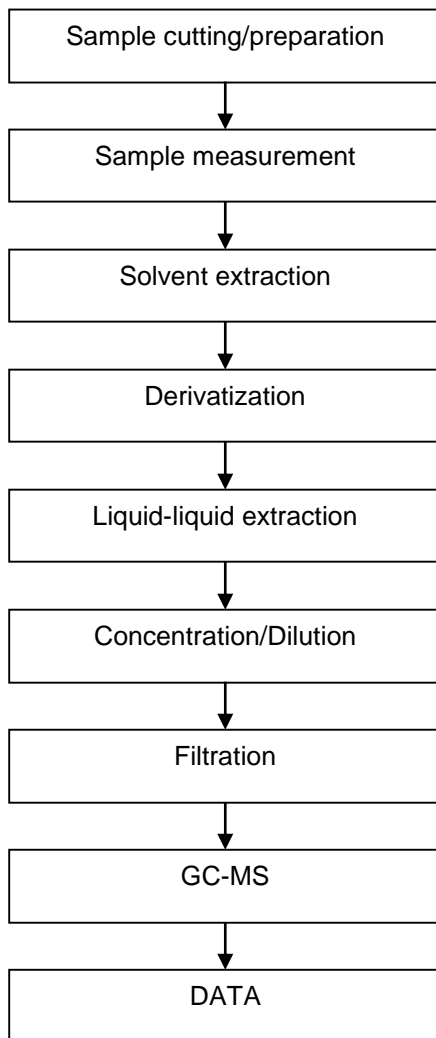


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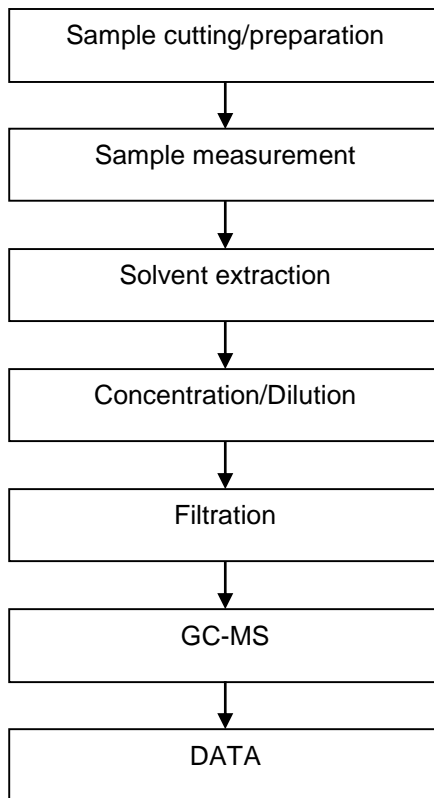
Organotin Testing Flow Chart



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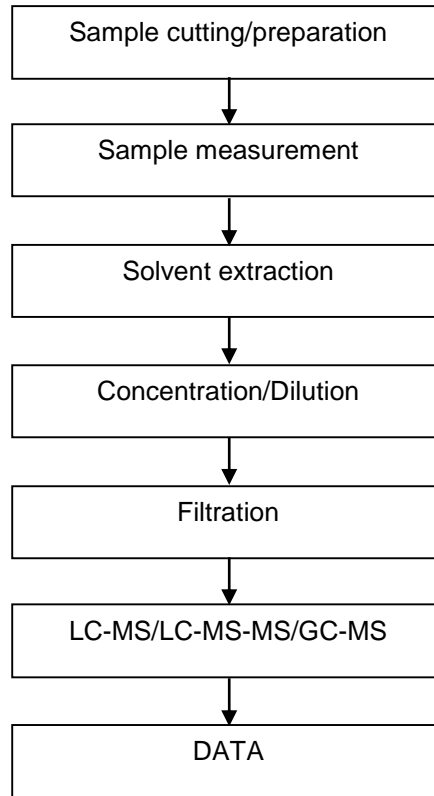
PAHs Testing Flow Chart



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PFASs/ PFOS/PFOA Testing Flow Chart



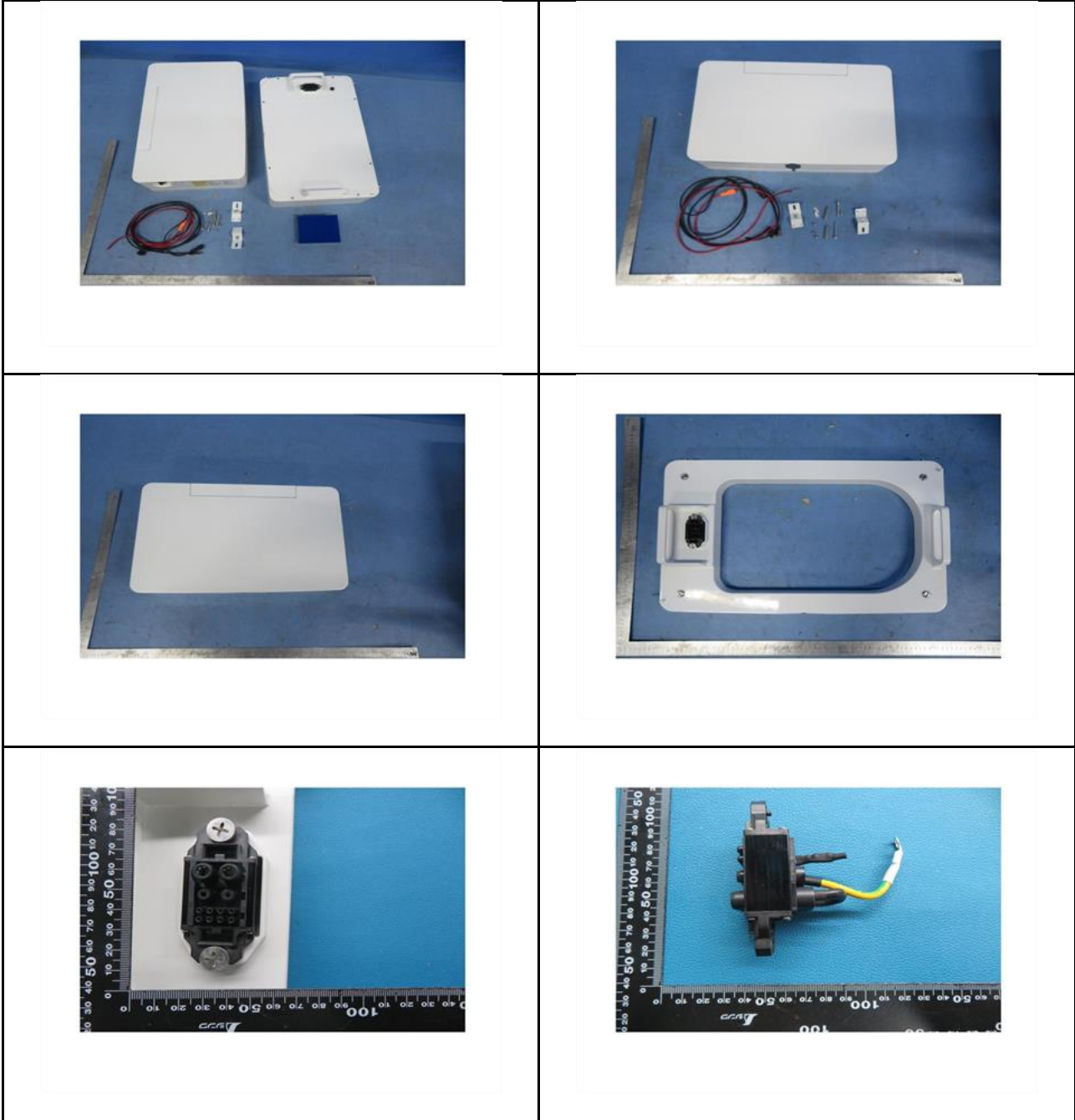
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Sample photos:



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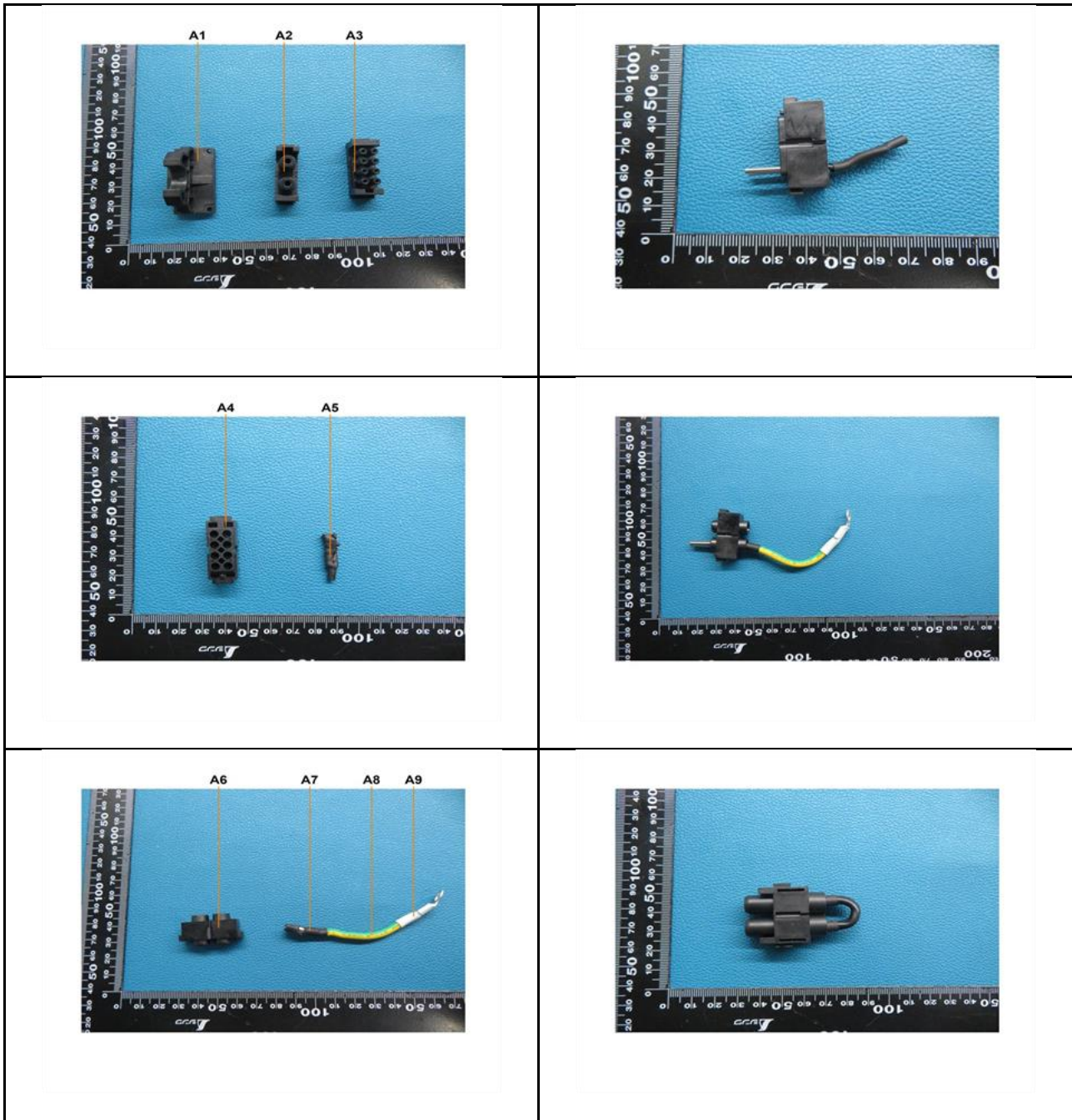
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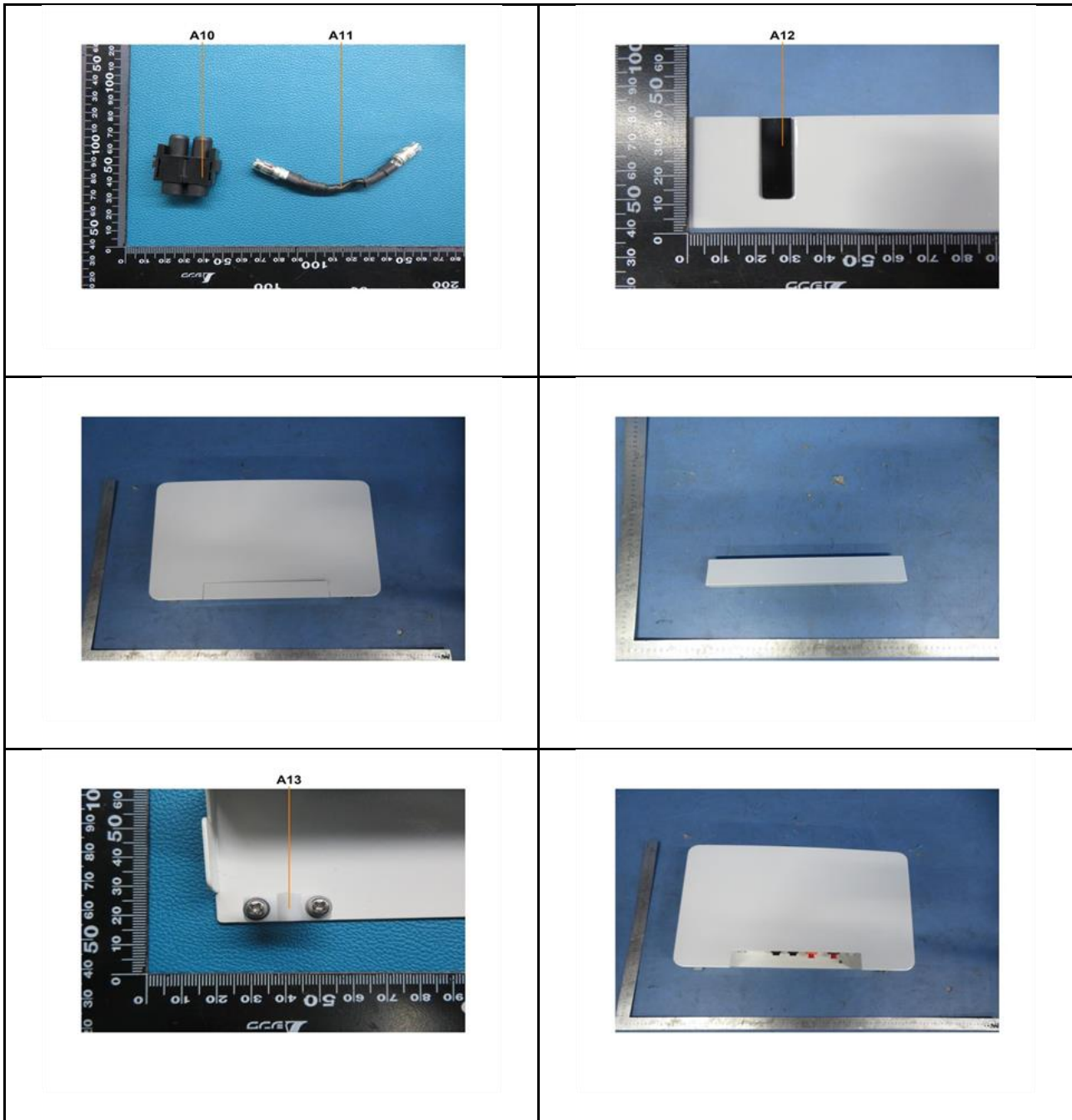
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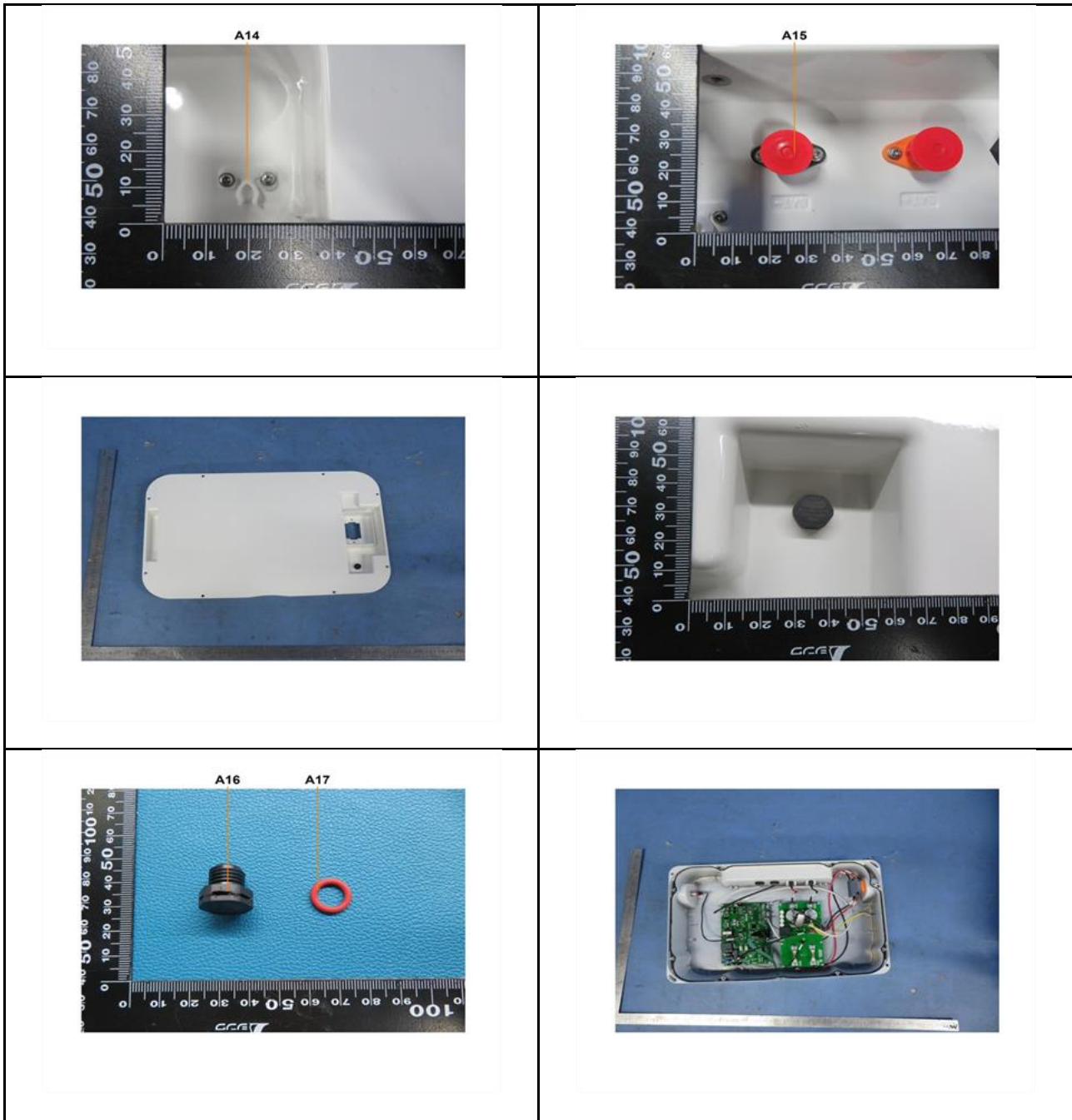


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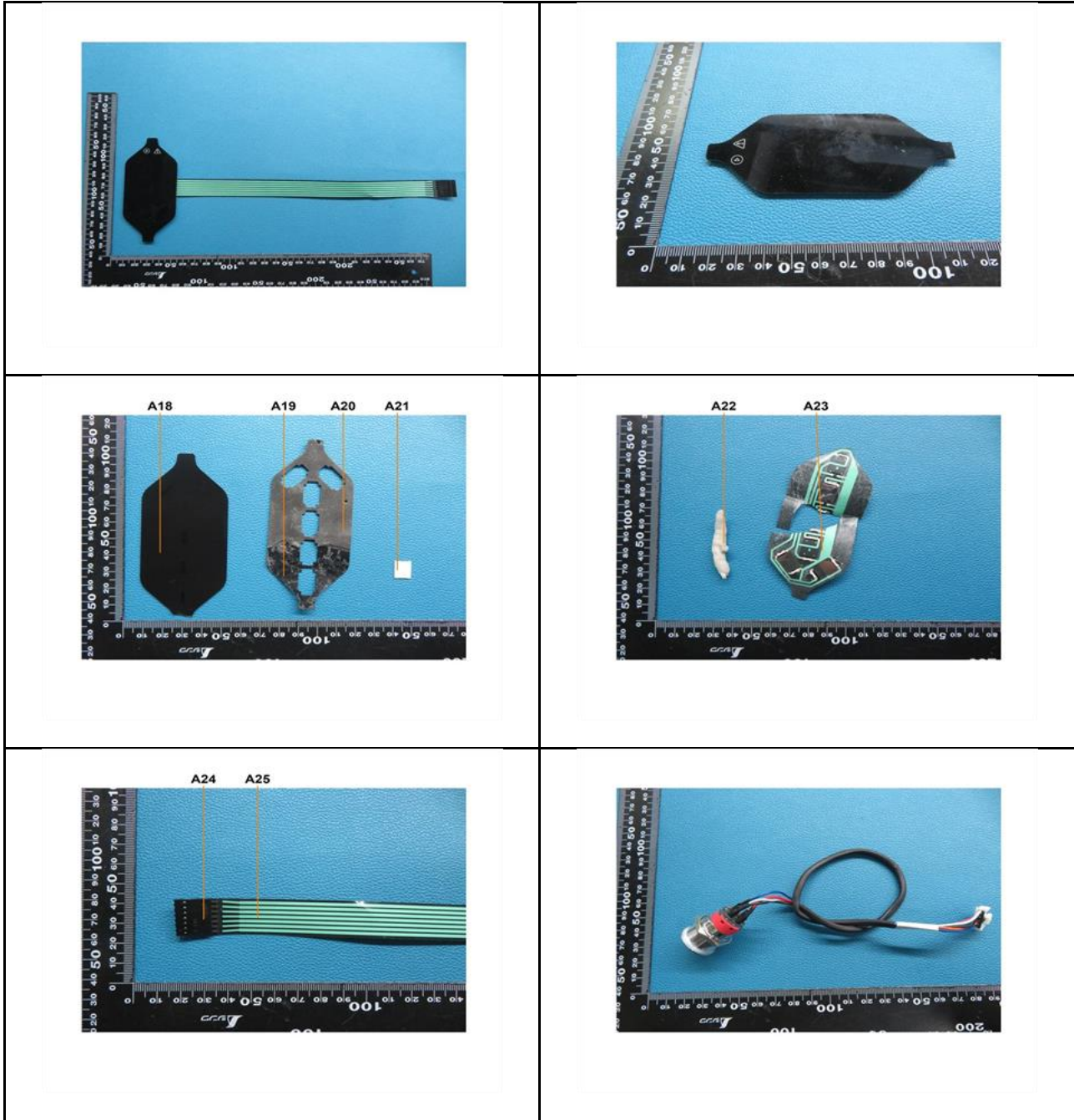
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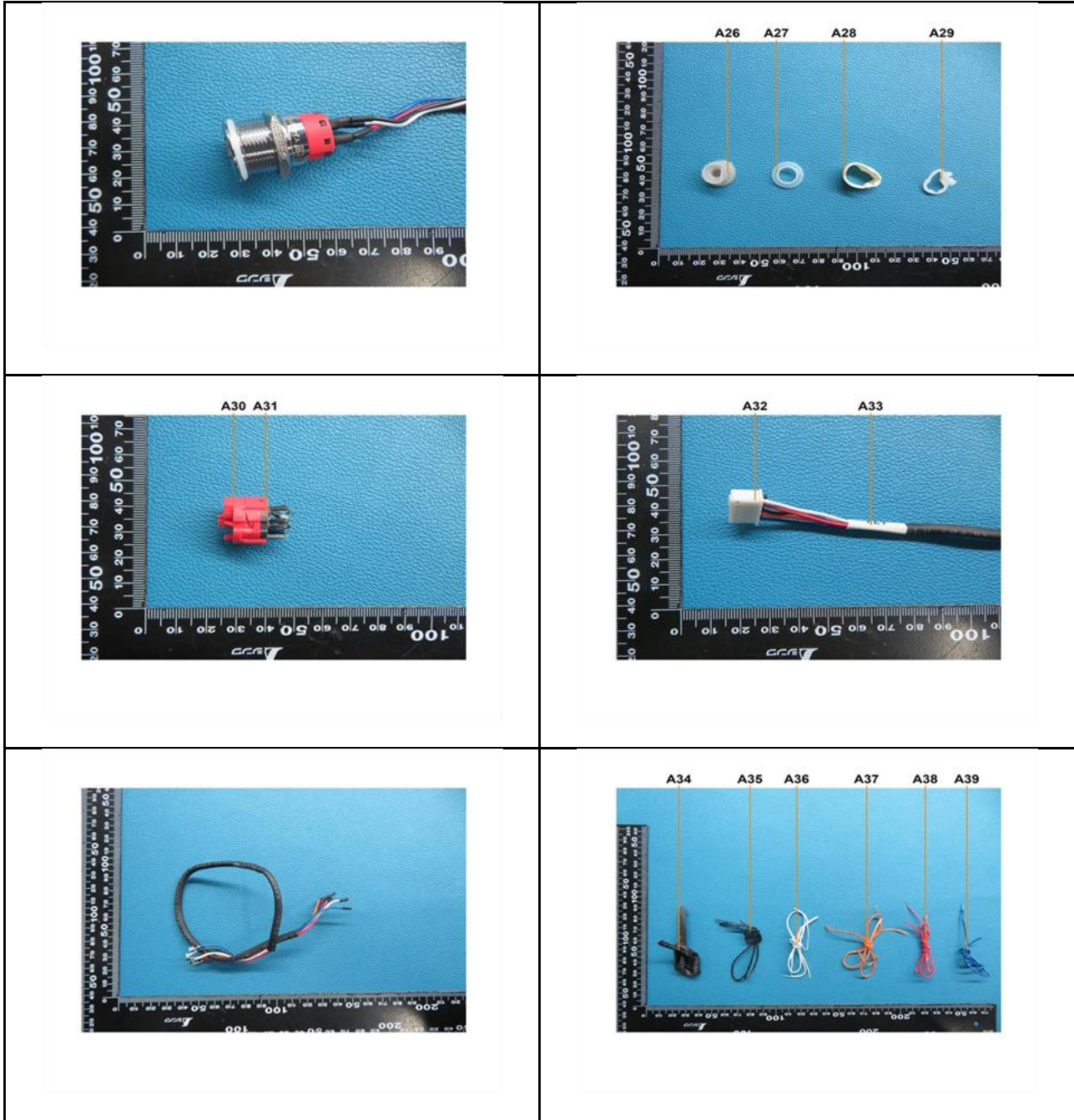
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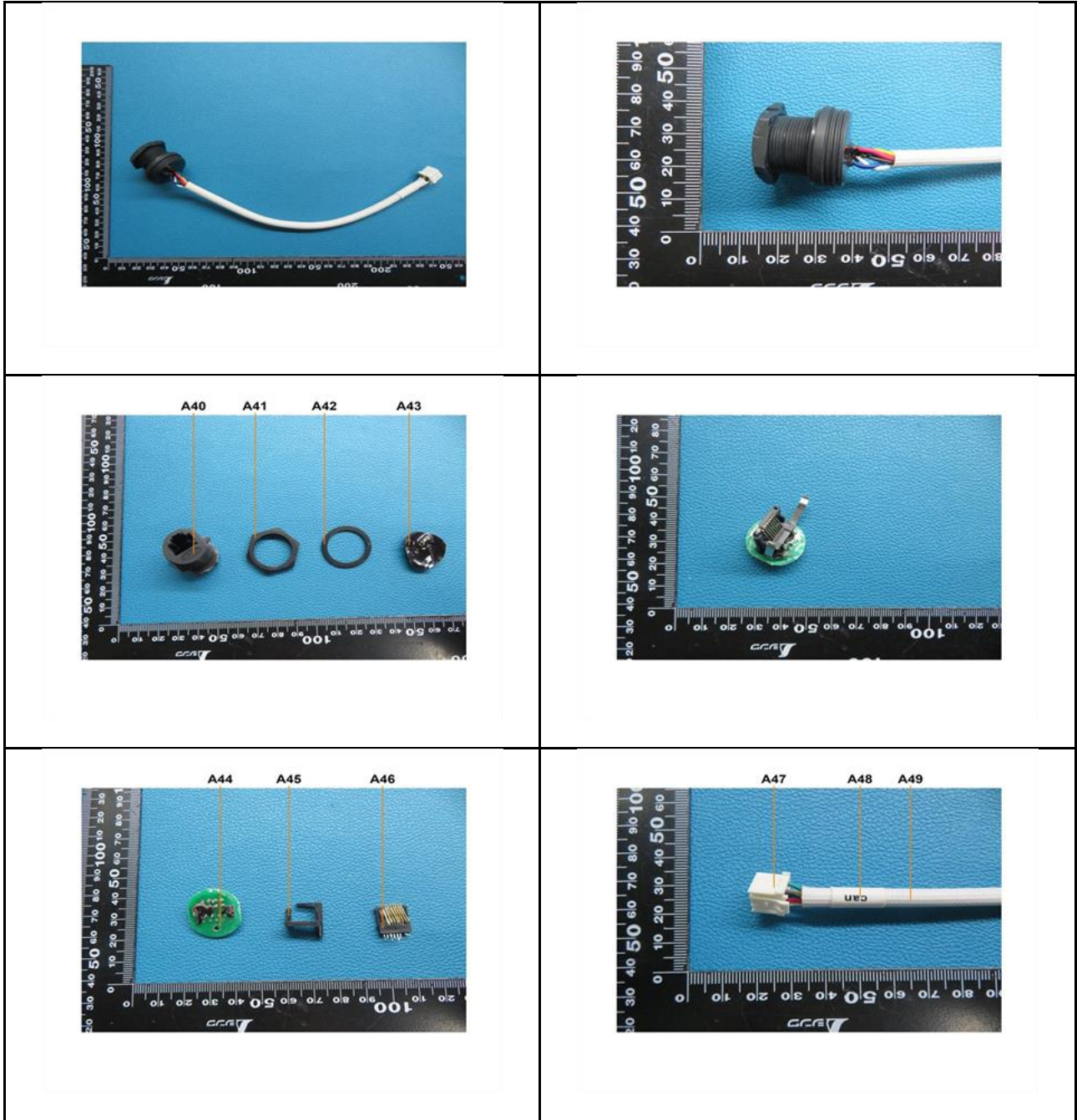
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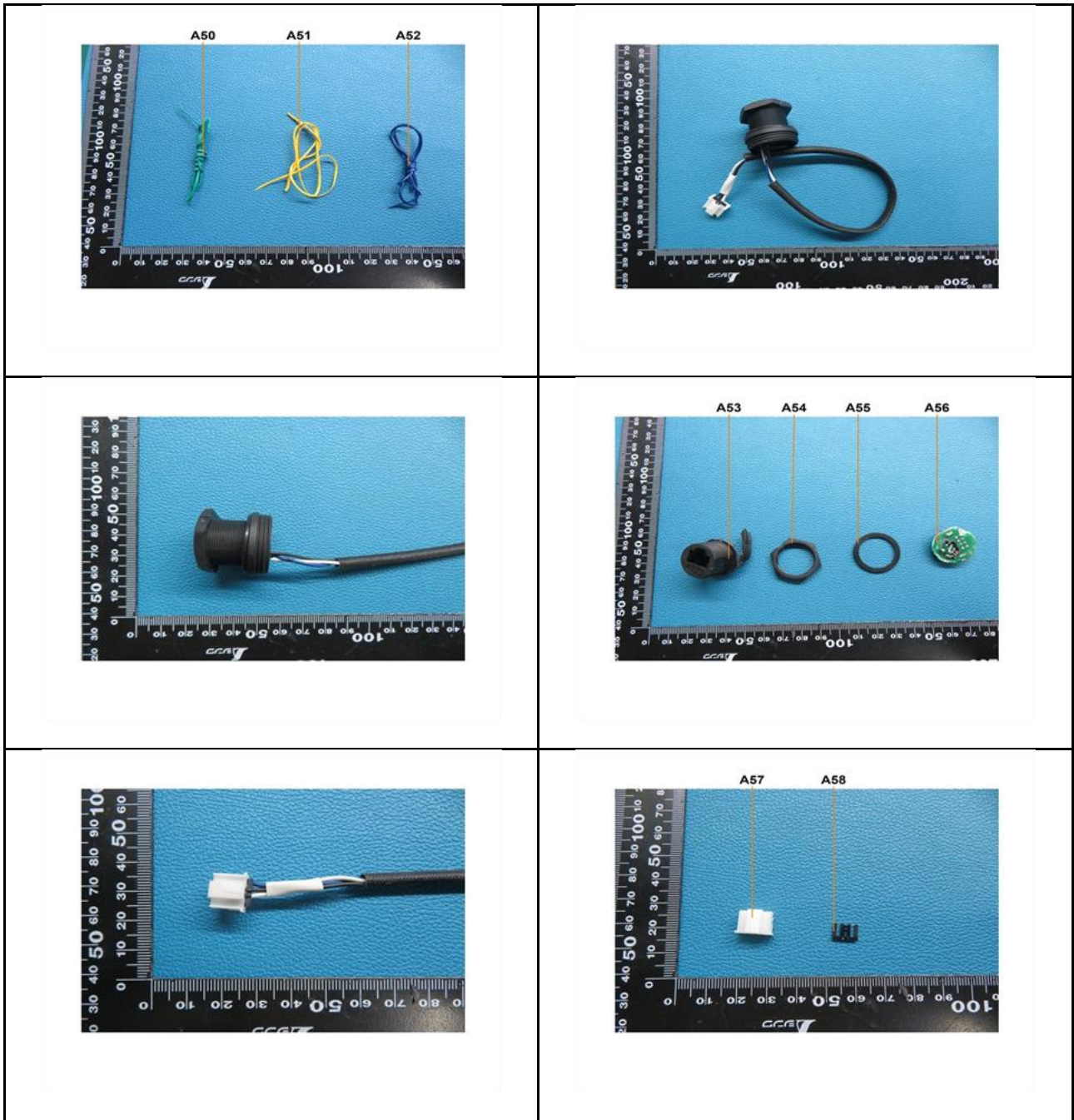
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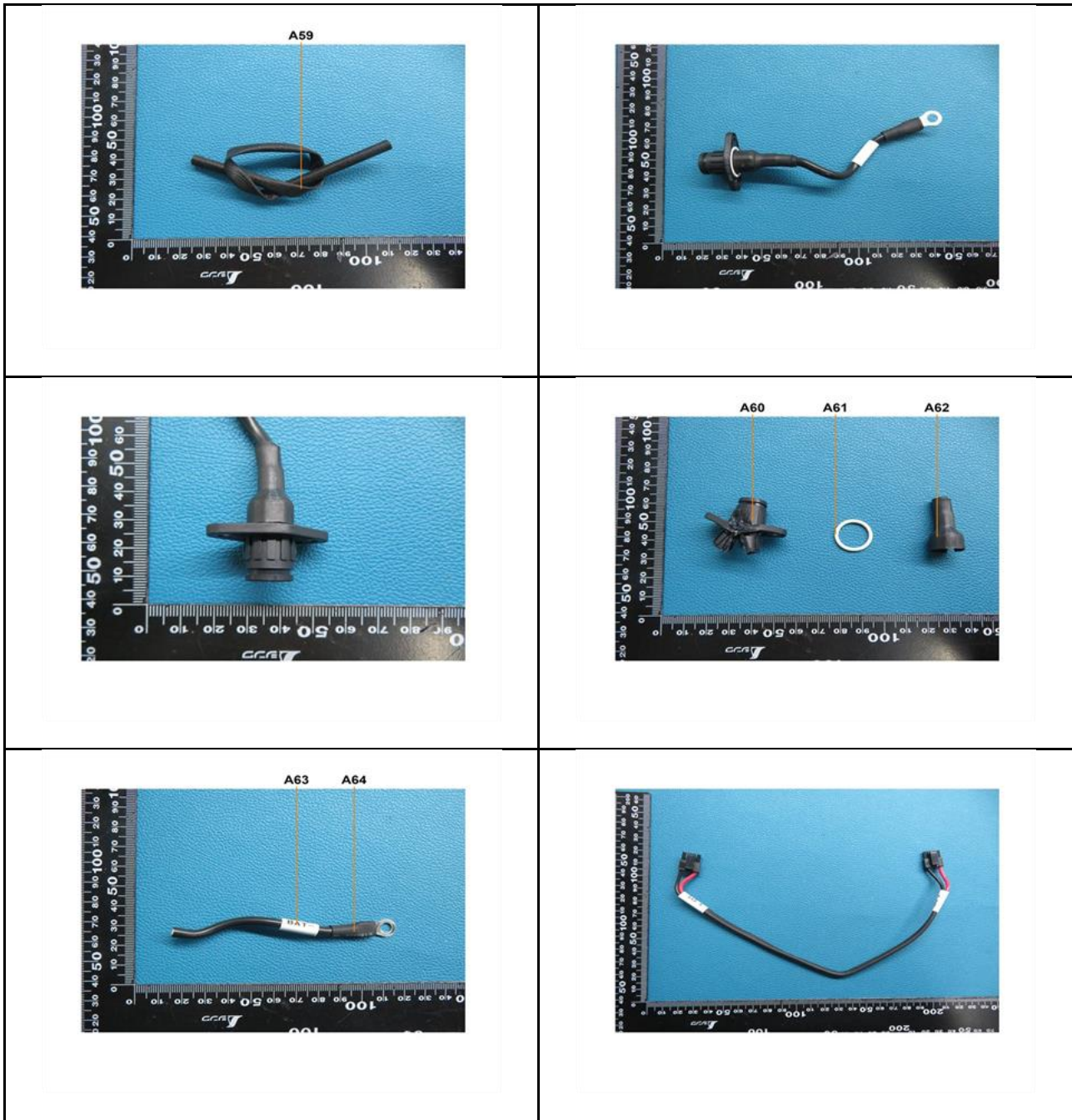
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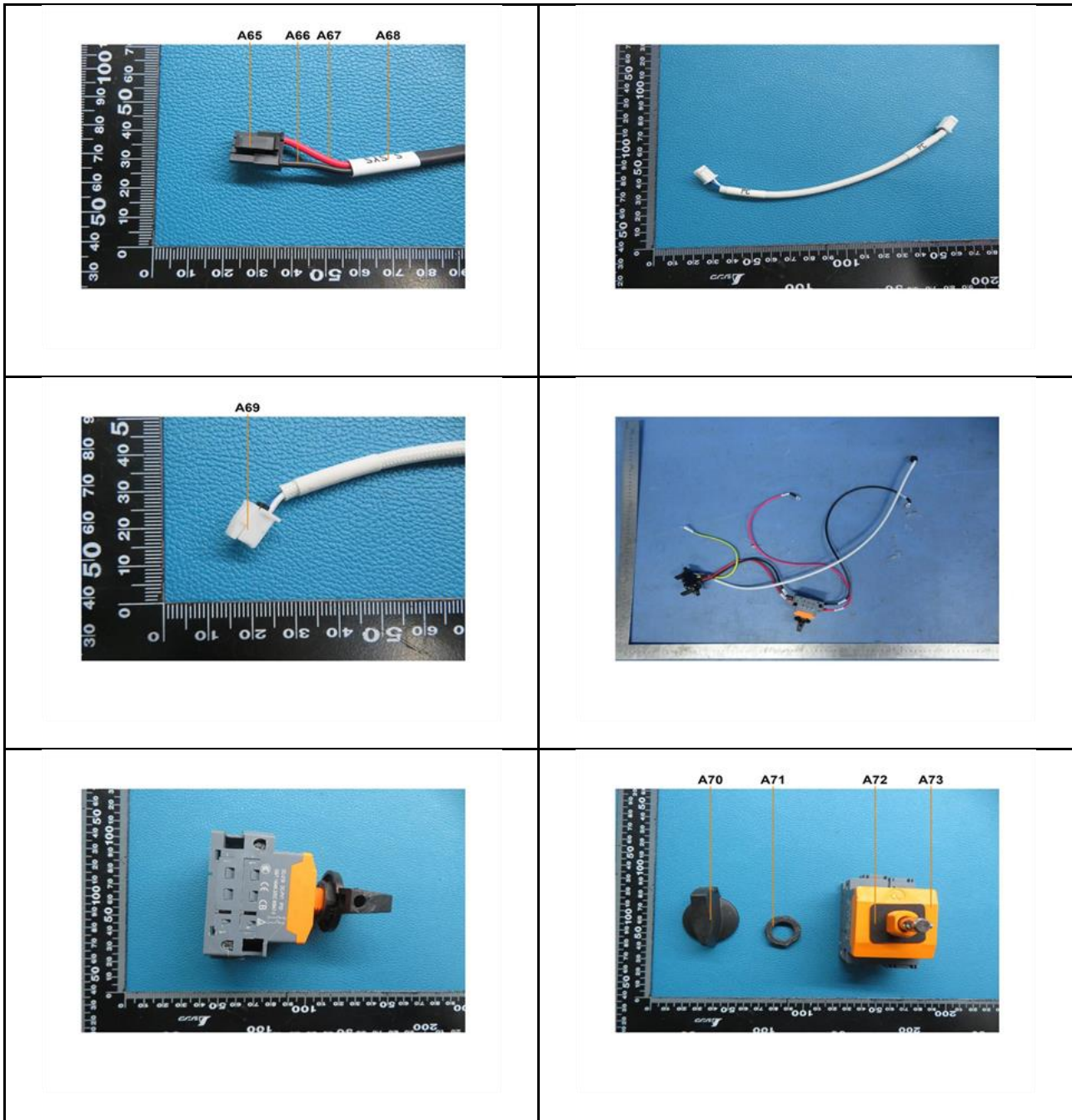
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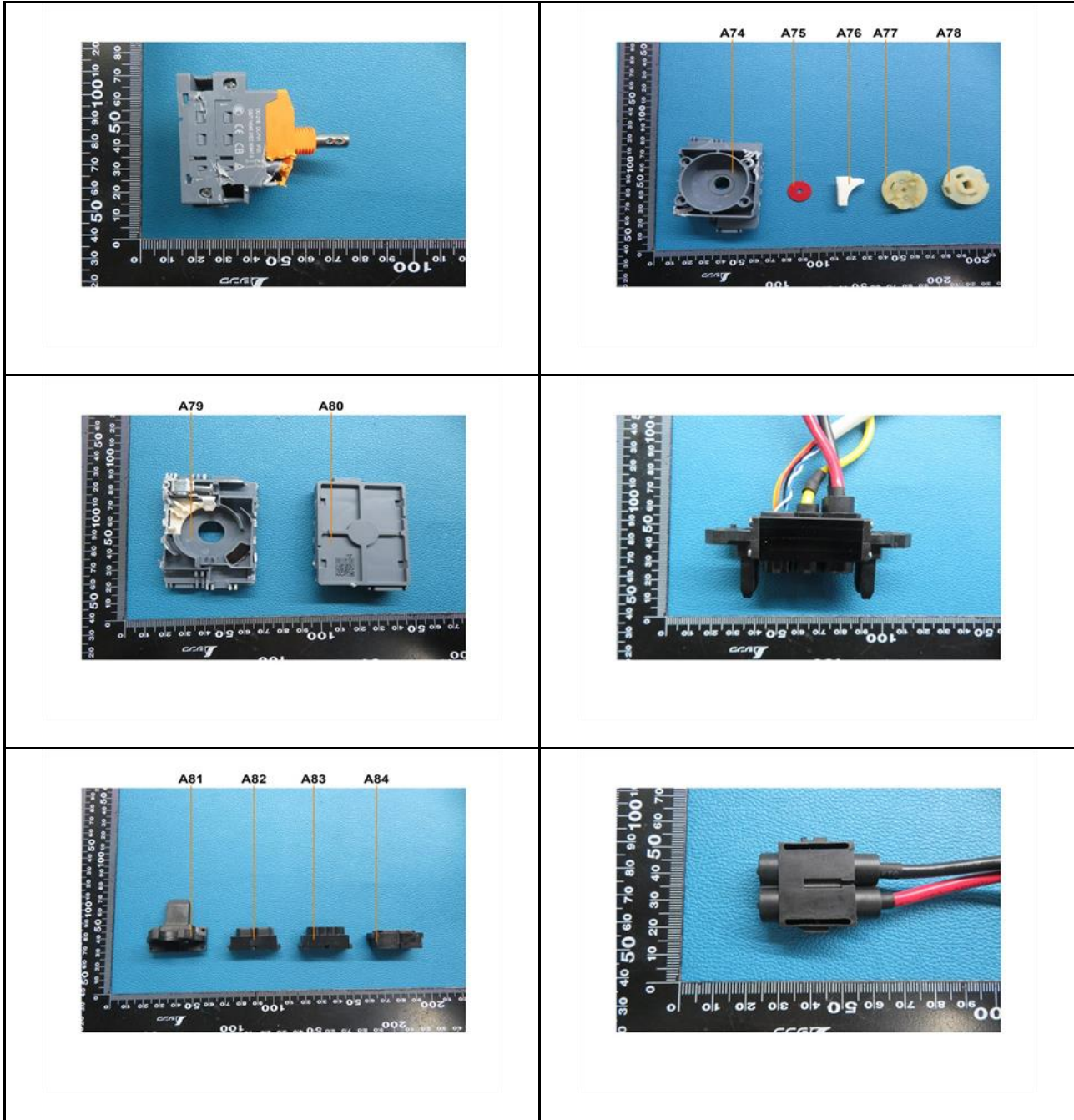
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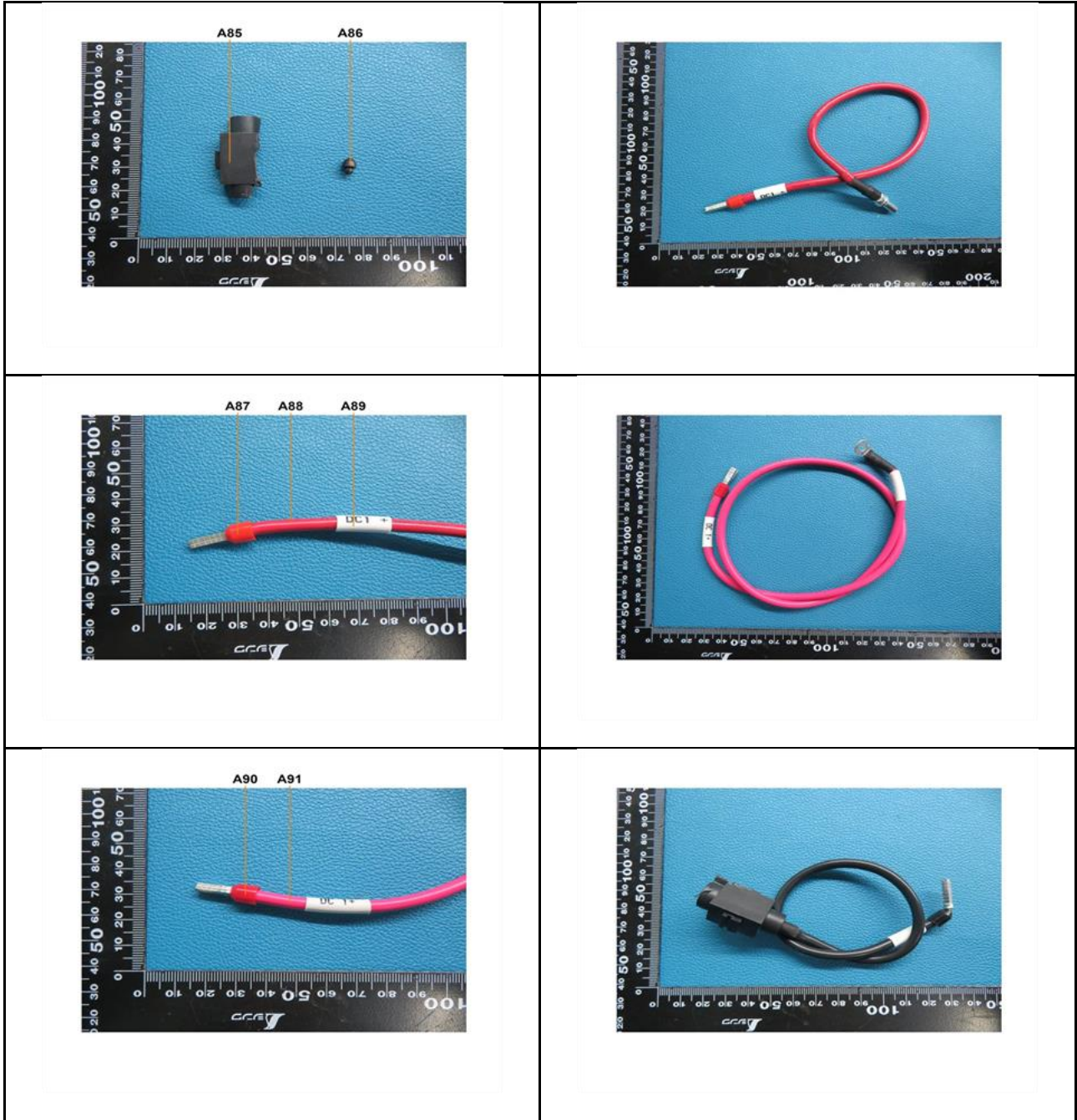
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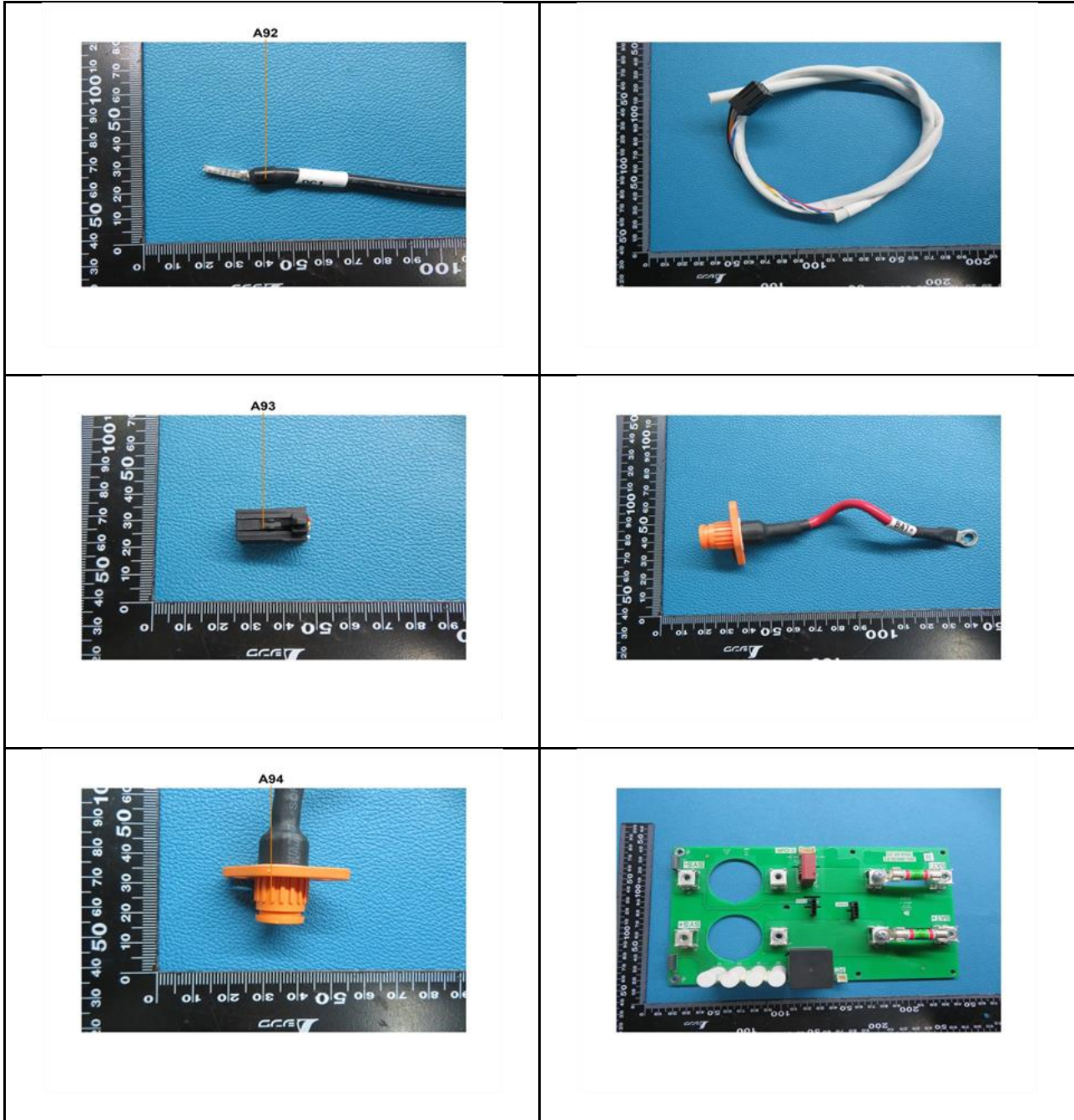
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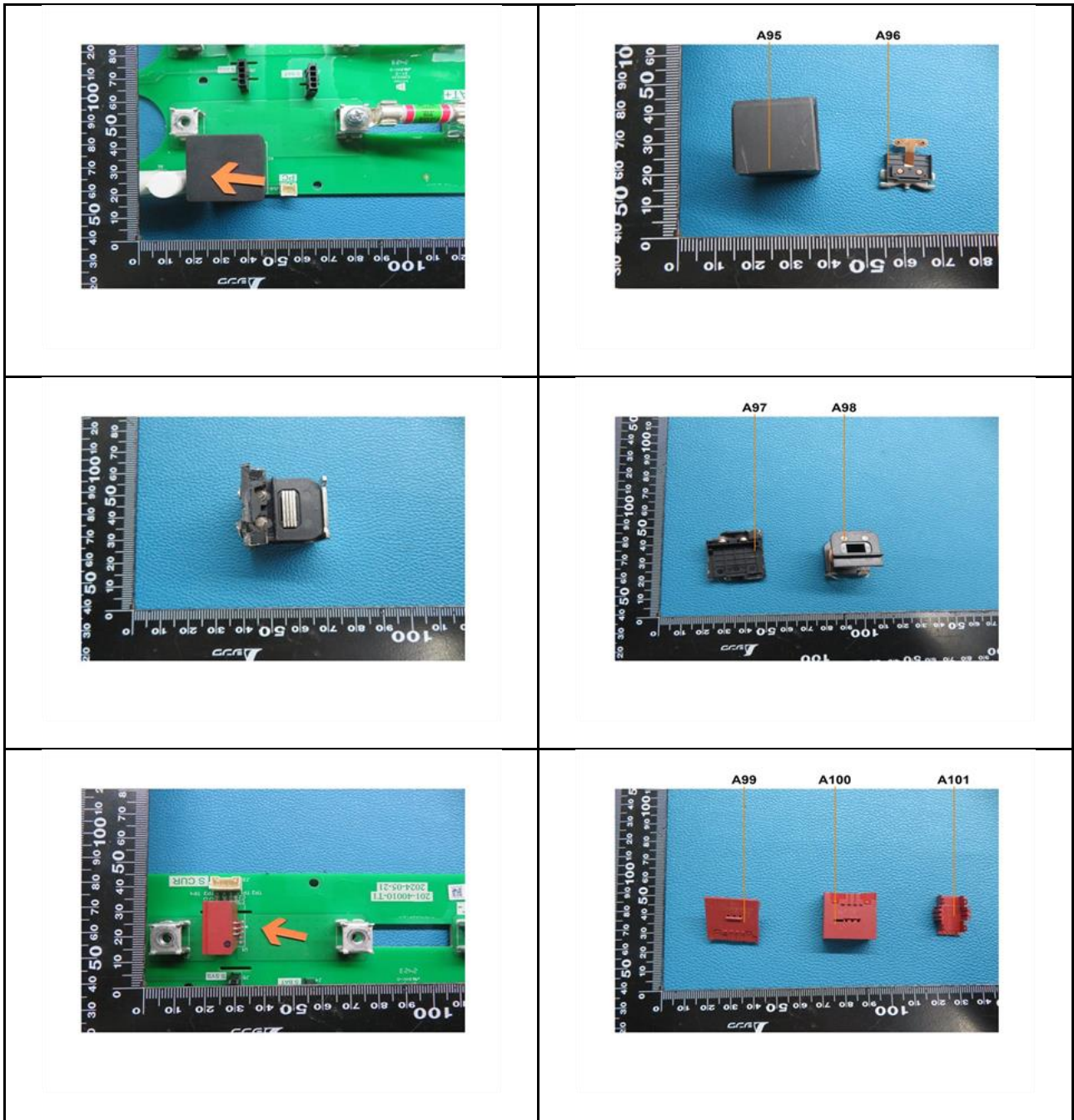


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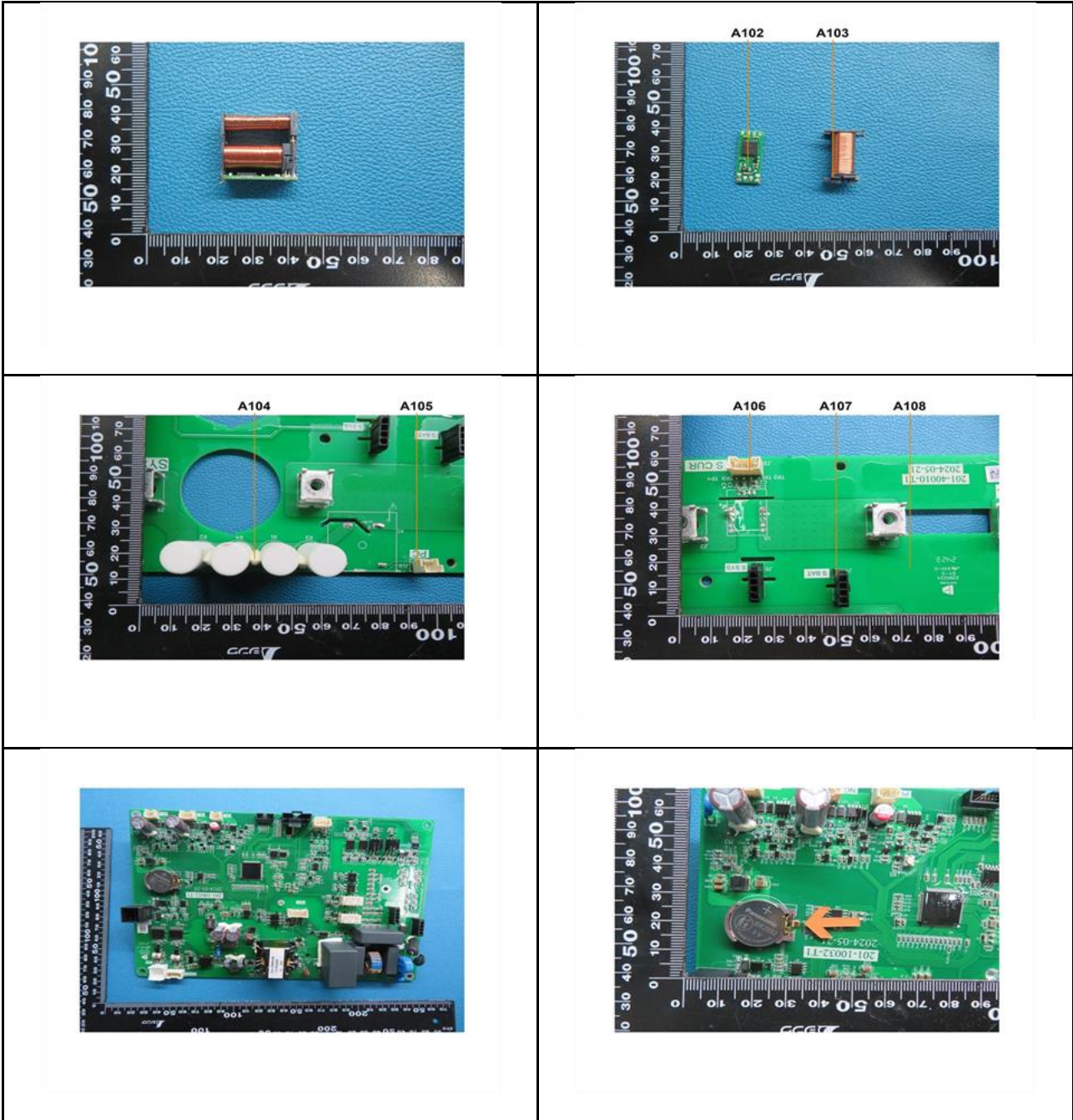


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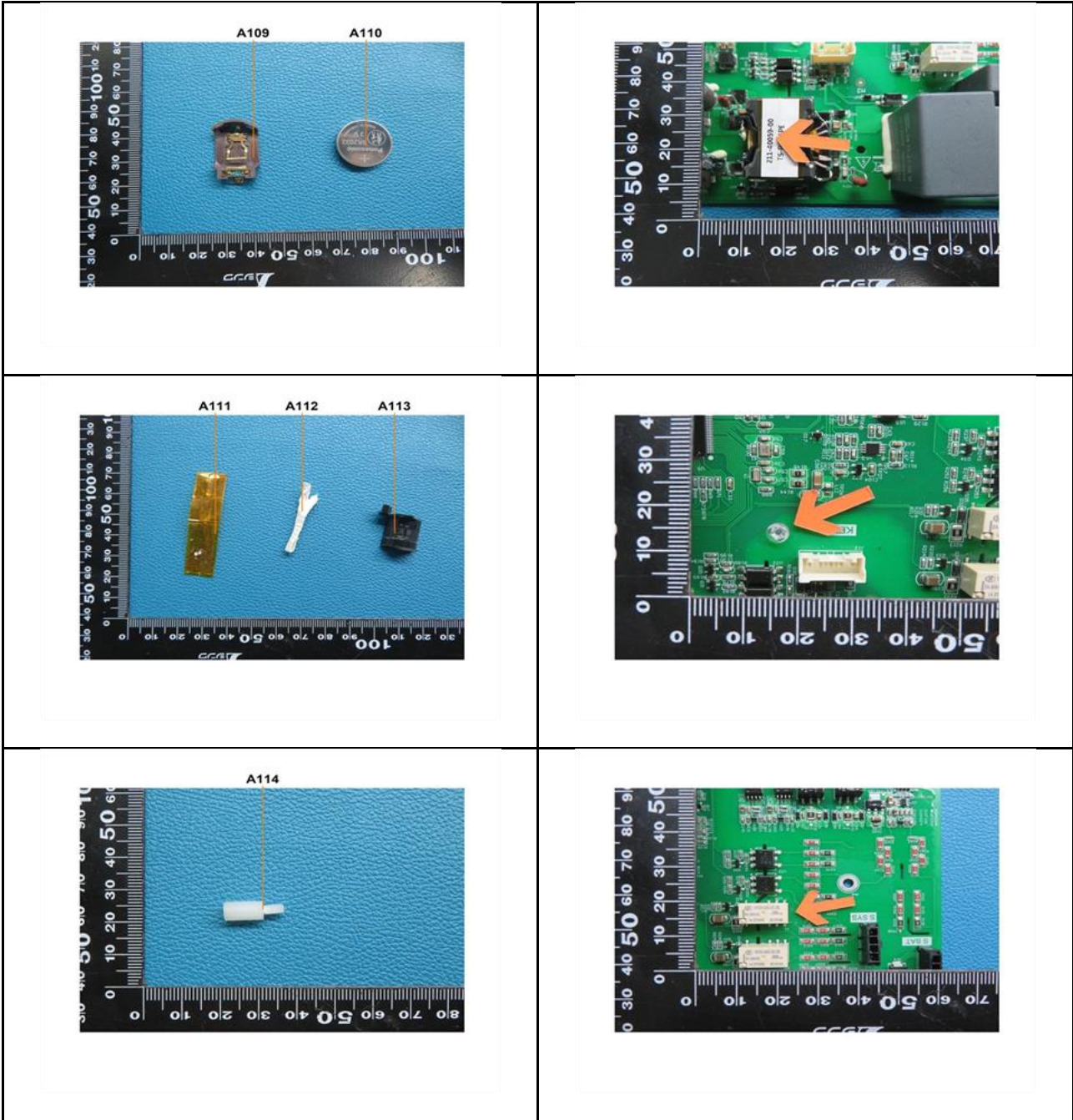


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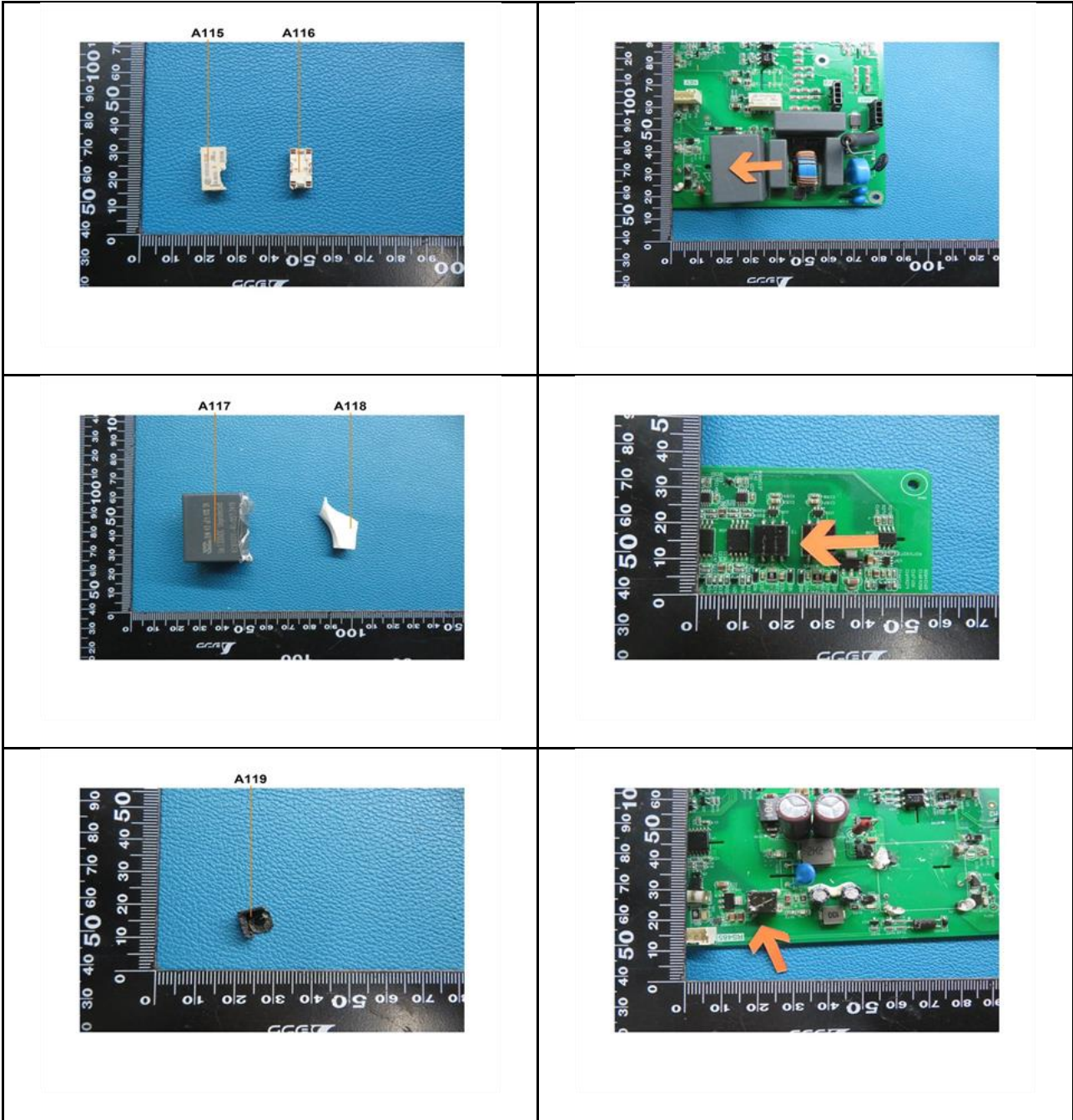
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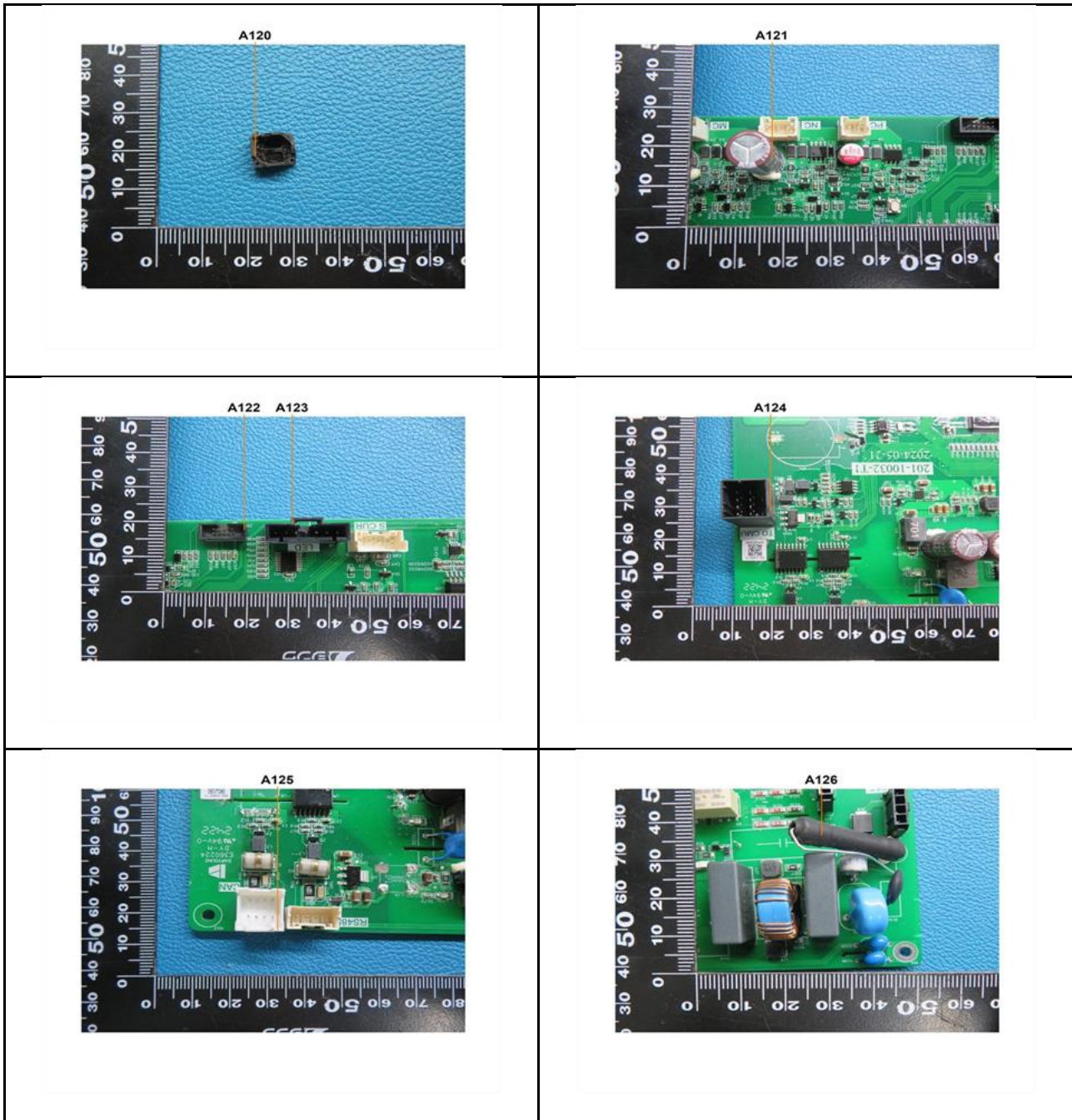
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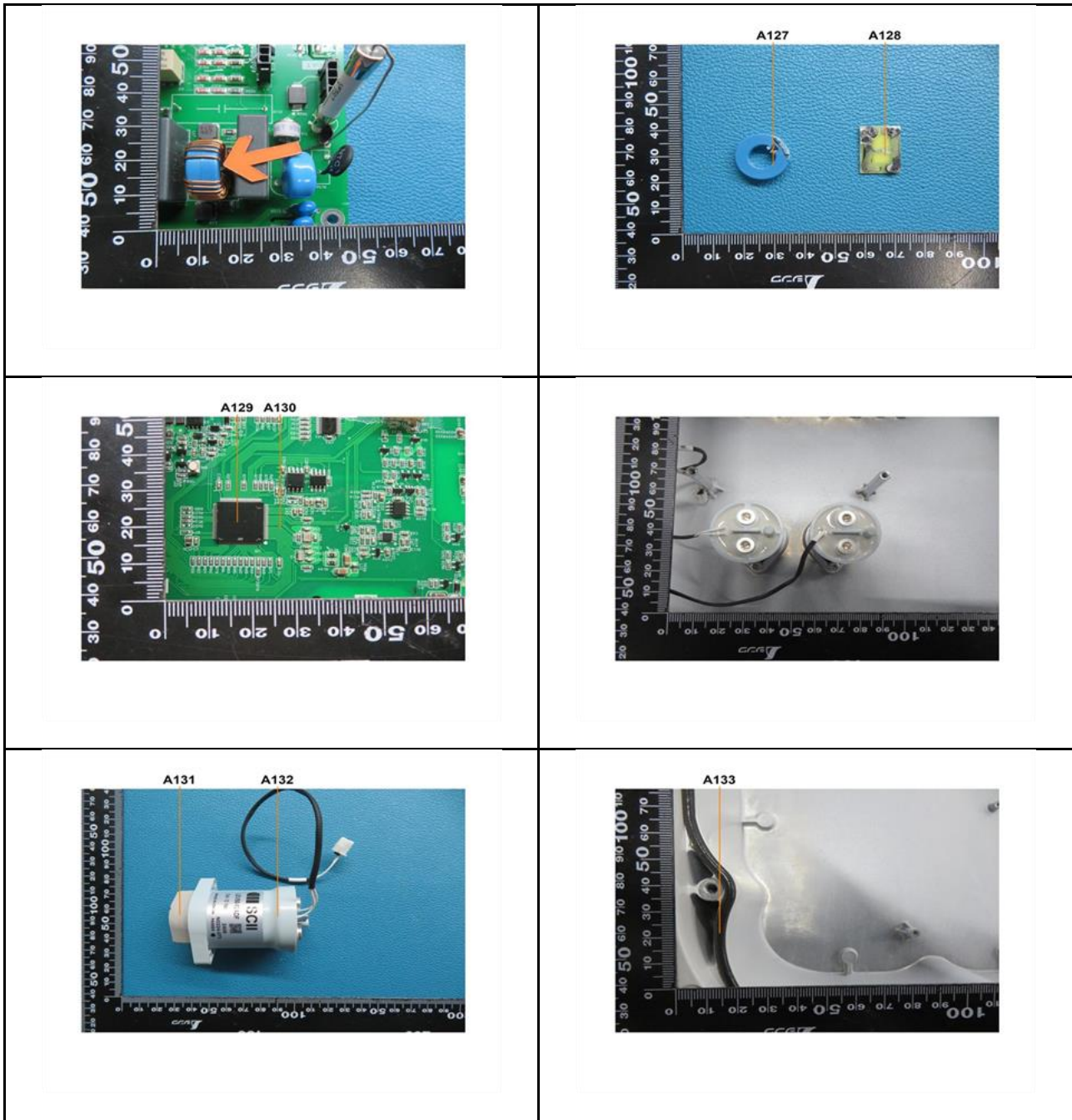
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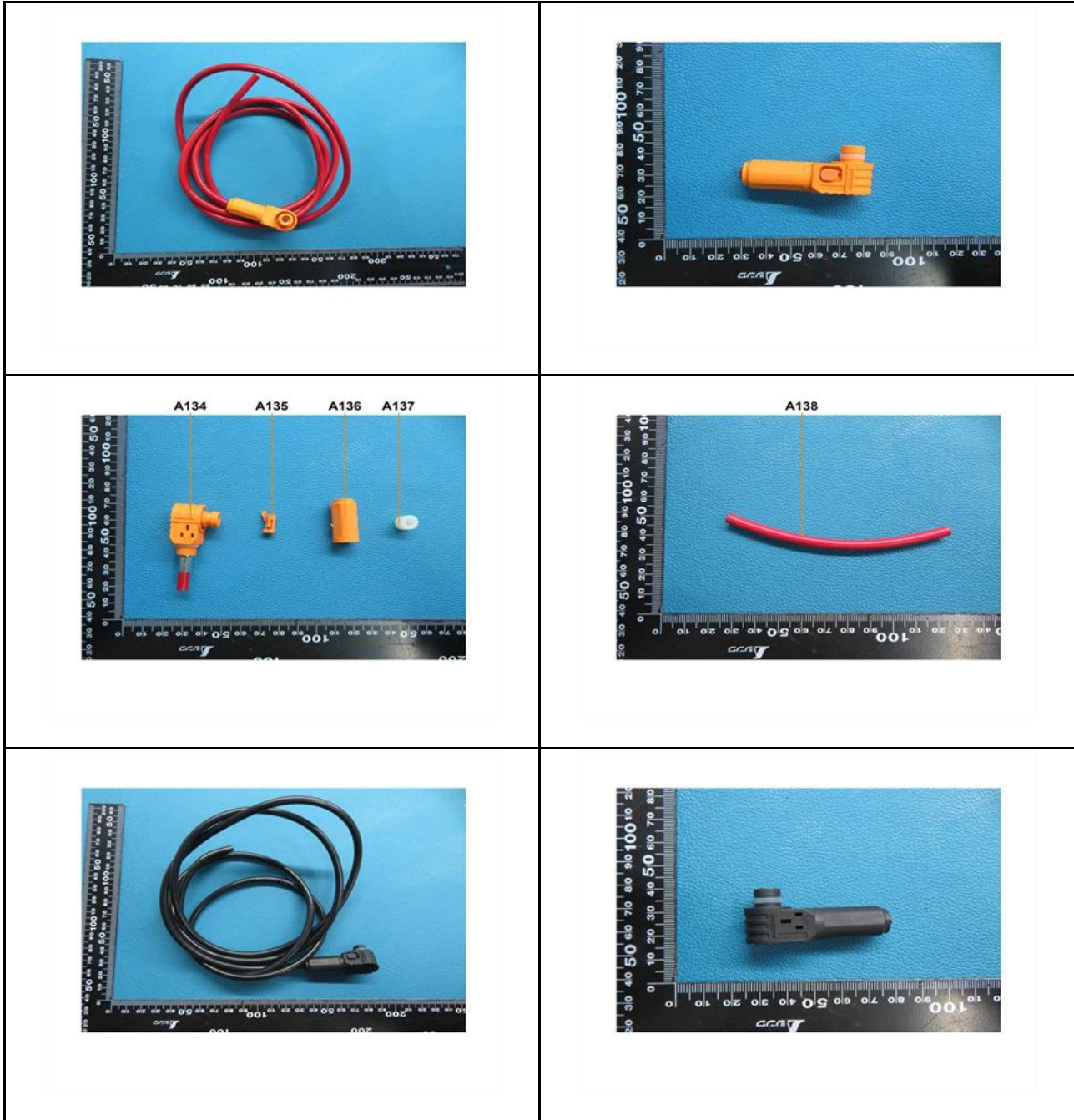


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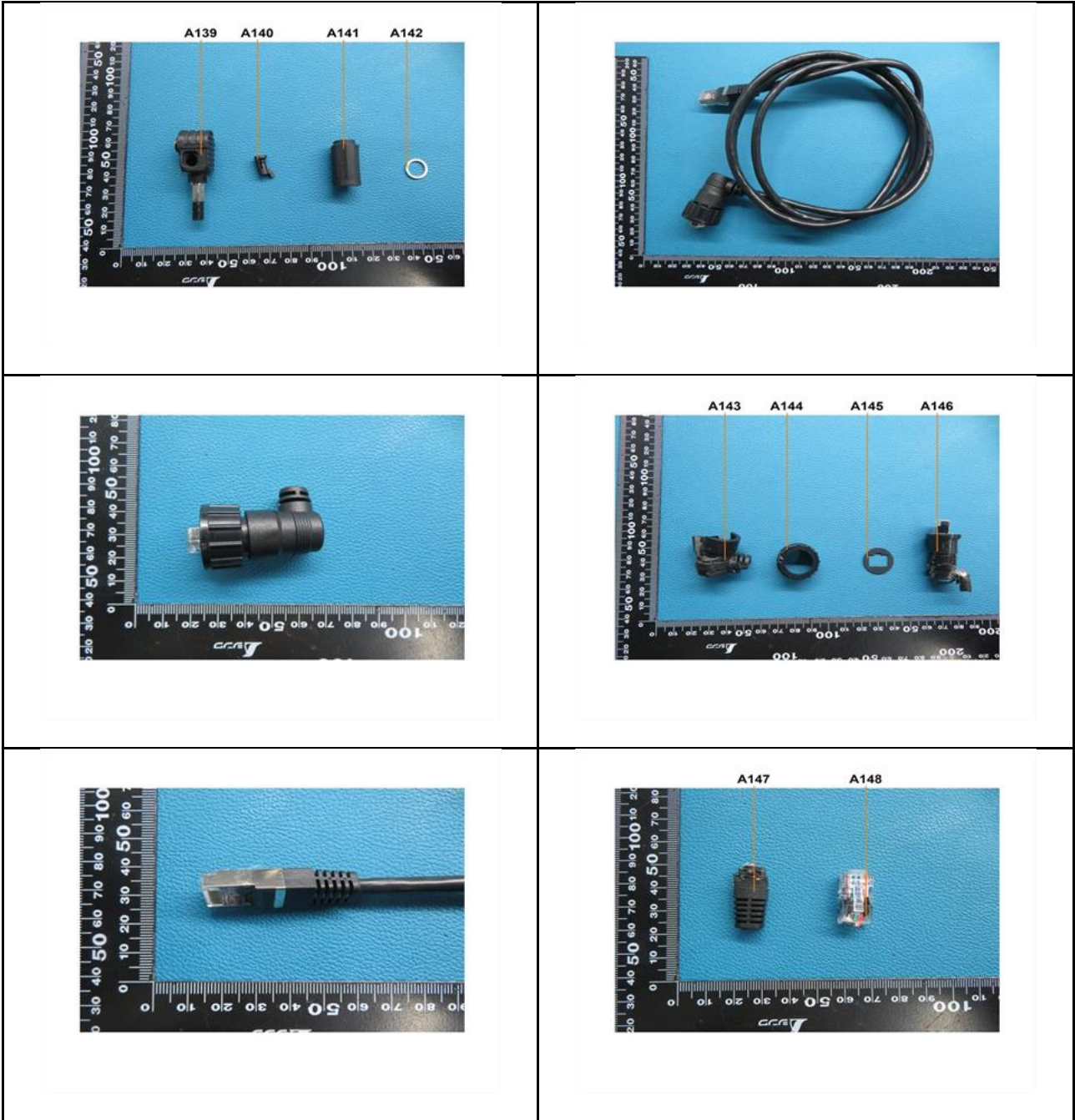
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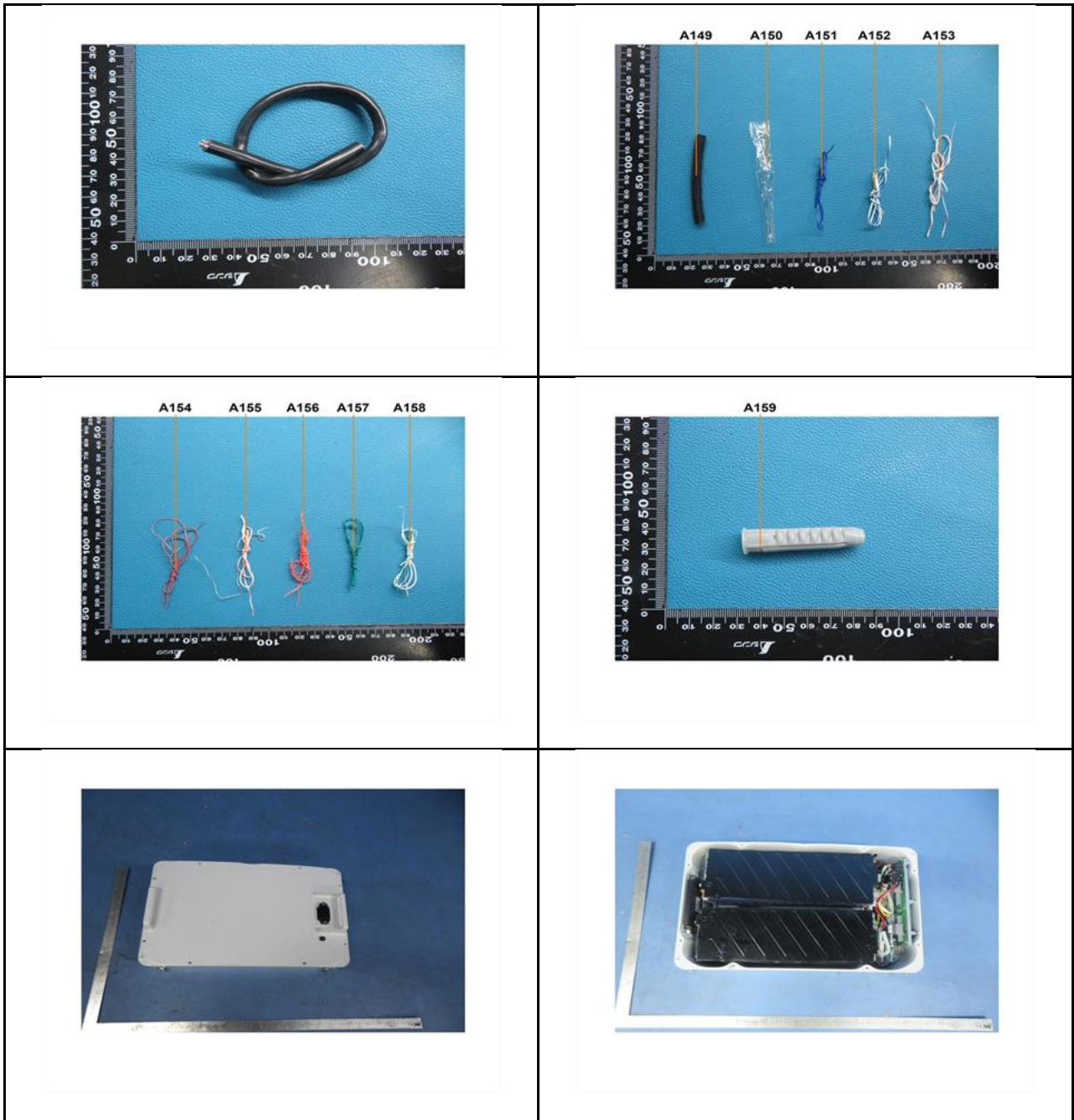
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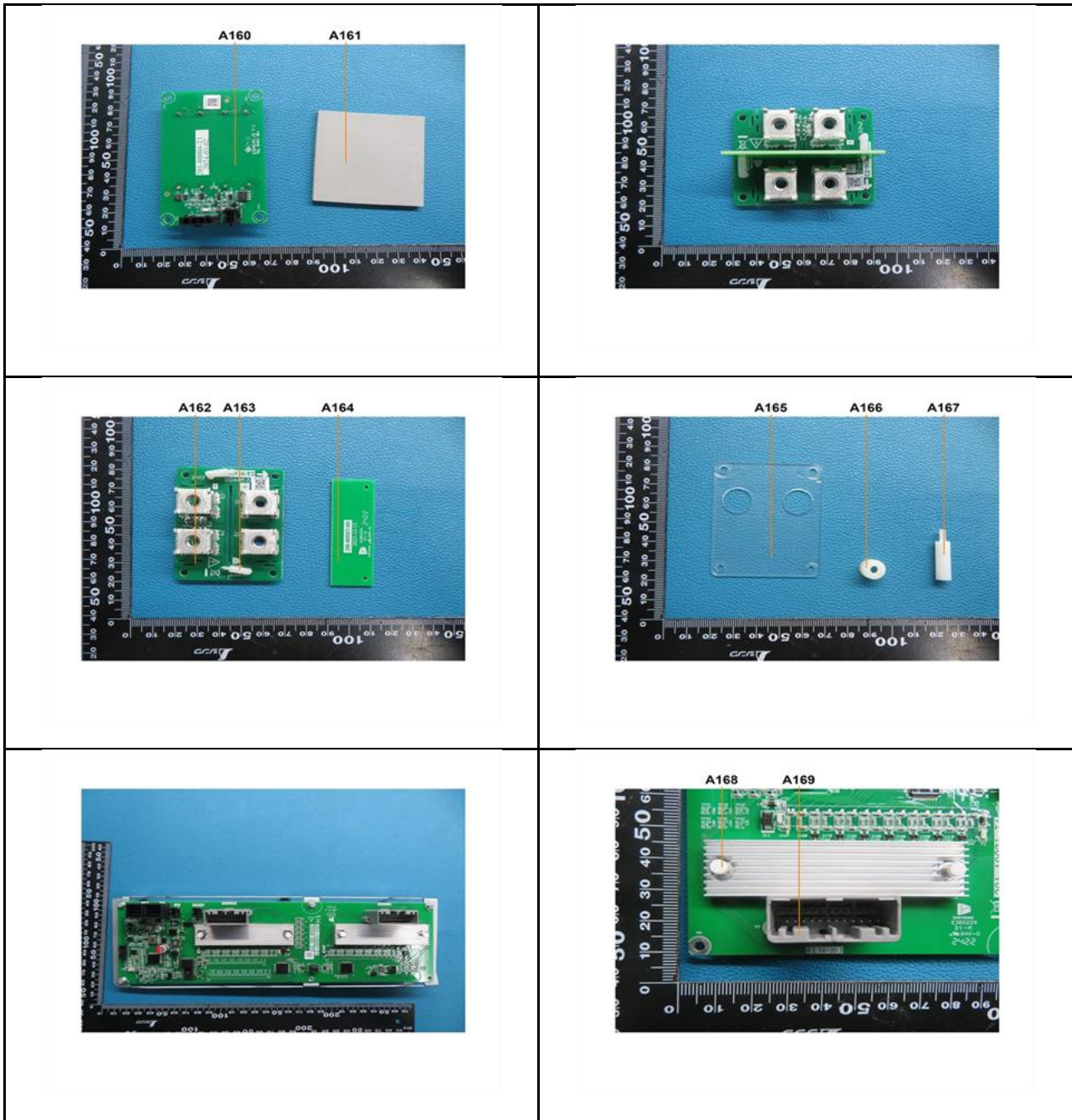
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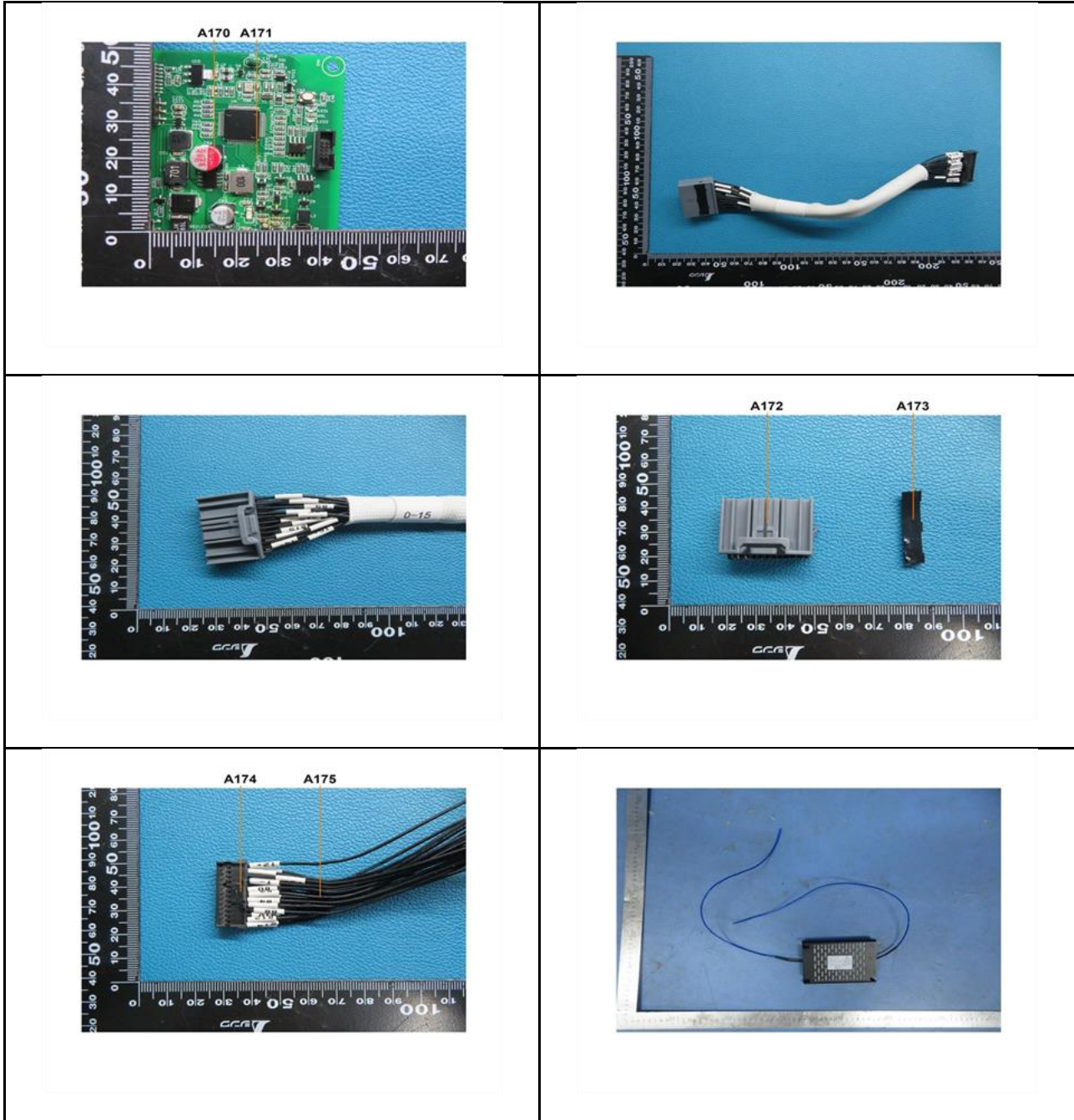
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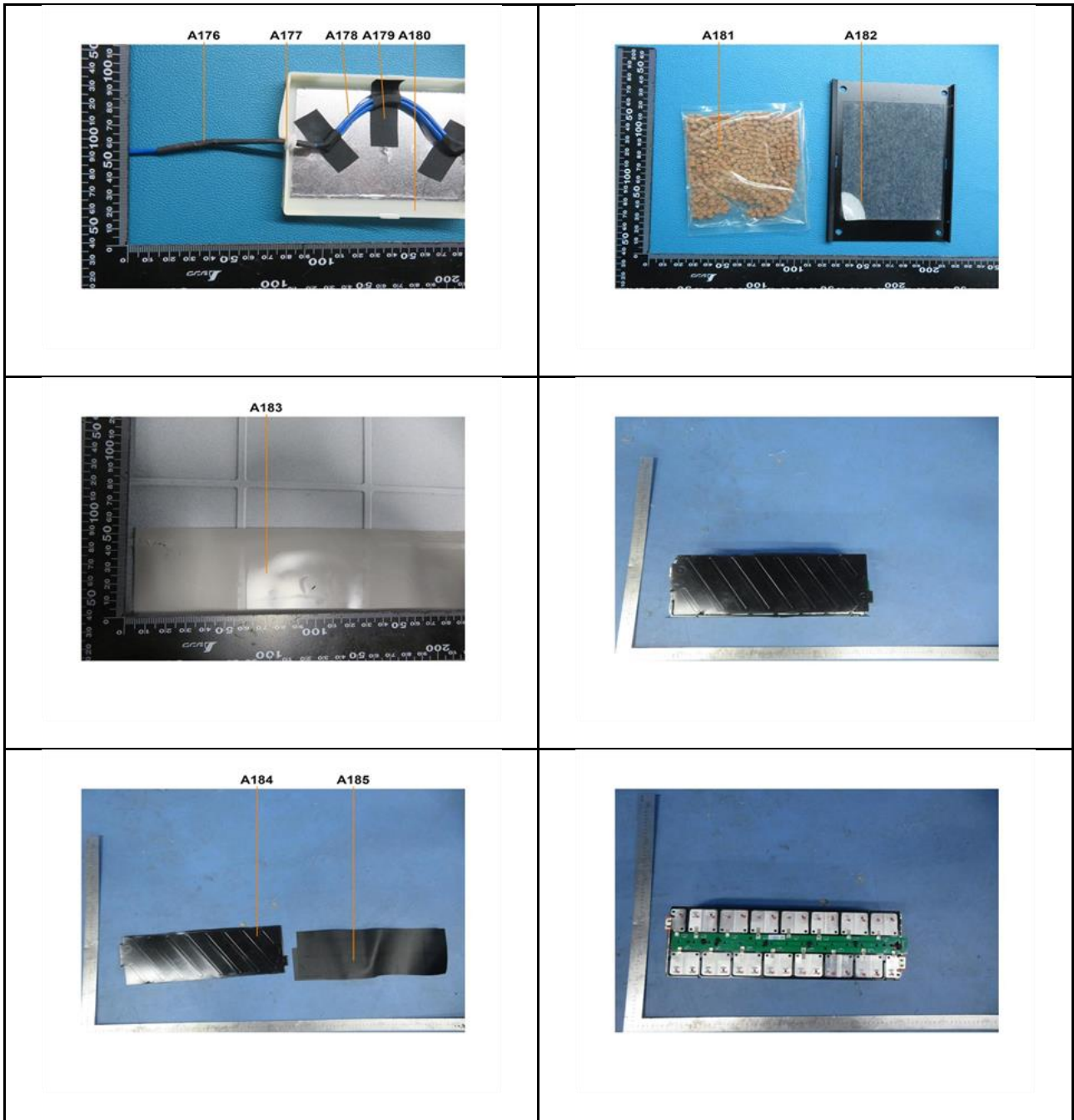
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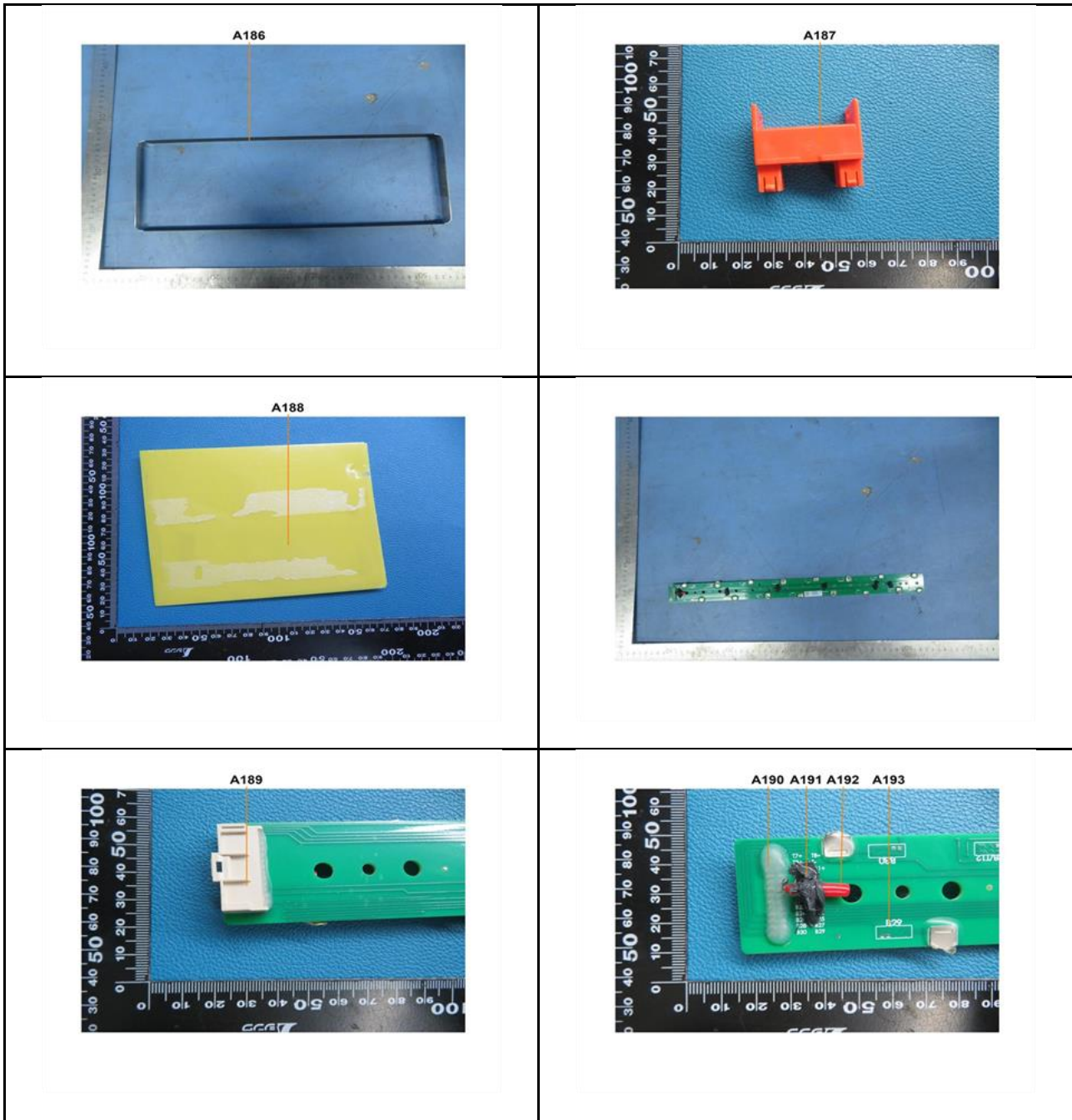
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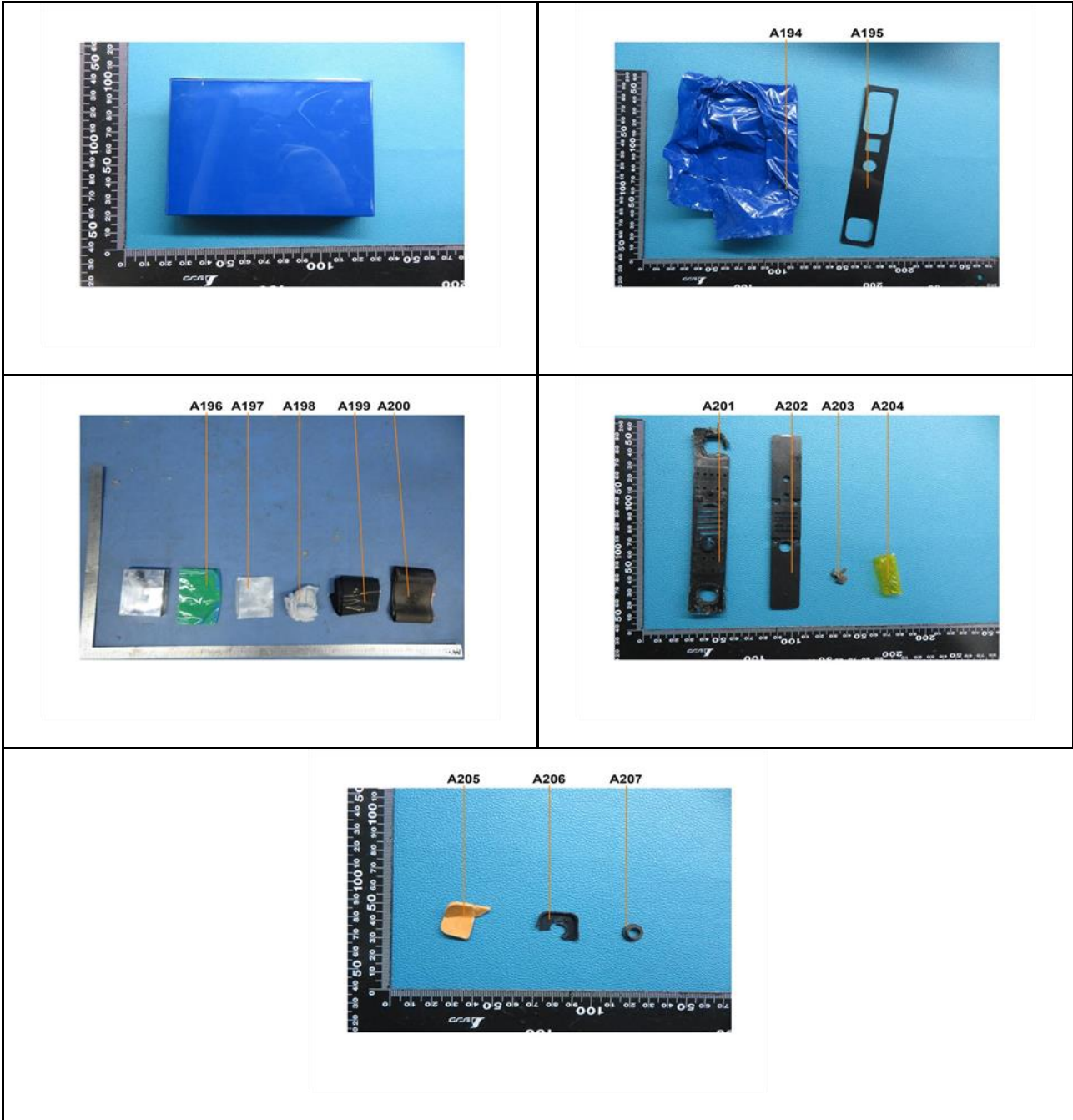
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