

Verification Report

No. SHAEC2302917701

Date: 09 Jun 2023

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Client Name : Compex Systems Pte Ltd

Client Address : No:9 Harrison Road, Harrison Industrial Building, #05-01, Singapore 369651

Sample Name : WIRELESS NETWORK CARD & PCI ADAPTER& WIRELESS ACCESS POINT &ANTENNA

Client Ref. Information : Please refer to remark (8)

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

SGS Job No. : SP23-010033 - SH

Date of Sample Received : 19 Apr 2023

Test Period : 19 Apr 2023 - 07 Jun 2023

Test Requested : With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

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

Test 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 (PBBs), Polybrominated diphenyl ethers (PBDEs), 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 (Shanghai) Co., Ltd.

Jessica Chen

Jessica Chen
Approved Signatory

scan to see the report



BC11B3C0



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Test Method(s) :

1. With reference to IEC 62321-2:2021, review was performed for the samples disjointed from the submitted articles.
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, ISO 17075-1:2017, IEC 62321-6:2015 and IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.

Test Part Description :

SN ID	Sample No	SGS Sample ID	Description
SN1	1	SHA23-029177.001	White plastic (jacket)
SN2	2	SHA23-029177.002	Golden metal (guide vane)
SN3	3	SHA23-029177.003	Silvery metal (boot)
SN4	4	SHA23-029177.004	Transparent plastic (wire sheath) (wire harness)
SN5	5	SHA23-029177.005	Silvery metal (wire core) (wire harness)
SN6	6	SHA23-029177.006	Black plastic (jacket)
SN7	7	SHA23-029177.007	Black metal (radiator fin)
SN8	8	SHA23-029177.008	Black PCB (body)
SN9	9	SHA23-029177.009	Silvery metal (soldering tin) (PCB)
SN10	10	SHA23-029177.010	Black audion (body) (PCB)
SN11	11	SHA23-029177.011	Copper-colored metal (PCB)
SN12	12	SHA23-029177.012	Green solid (PCB)
SN13	13	SHA23-029177.013	Silvery metal (PCB)
SN14	14	SHA23-029177.014	Gray capacitor (body) (PCB)
SN15	15	SHA23-029177.015	Silvery metal (PCB)
SN16	16	SHA23-029177.016	Gray capacitor (body) (PCB)
SN17	17	SHA23-029177.017	Black IC (body) (PCB)
SN18	18	SHA23-029177.018	Silvery metal (PCB)
SN19	19	SHA23-029177.019	Black IC (body) (PCB)
SN20	20	SHA23-029177.020	Black IC (body) (PCB)
SN21	21	SHA23-029177.021	Black PCB (body)
SN22	22	SHA23-029177.022	Silvery metal (PCB)
SN23	23	SHA23-029177.023	Black/White adhesive plastic (PCB)



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SN ID	Sample No	SGS Sample ID	Description
SN24	24	SHA23-029177.024	Black IC (body) (PCB)
SN25	25	SHA23-029177.025	Black inductor (body) (PCB)
SN26	26	SHA23-029177.026	Black IC (body) (PCB)
SN27	27	SHA23-029177.027	Silvery crystal resonator (body) (PCB)
SN28	28	SHA23-029177.028	Black IC (body) (PCB)
SN29	29	SHA23-029177.029	Black metal (PCB)
SN30	30	SHA23-029177.030	Black PCB (body) (PCB)
SN31	31	SHA23-029177.031	Pink solid (PCB)
SN32	32	SHA23-029177.032	Silvery metal (PCB)
SN33	33	SHA23-029177.033	Silvery metal (PCB)
SN34	34	SHA23-029177.034	Black IC (body) (PCB)
SN35	35	SHA23-029177.035	Black inductor (body) (PCB)
SN36	36	SHA23-029177.036	Brown capacitor (body) (PCB)
SN37	37	SHA23-029177.037	Golden metal (guide vane)
SN38	38	SHA23-029177.038	Black metal (radiator fin)
SN39	39	SHA23-029177.039	Silvery metal (pin)
SN40	40	SHA23-029177.040	Golden metal (fixed block)
SN41	41	SHA23-029177.041	Silvery metal (bracket)
SN42	42	SHA23-029177.042	Black IC (body) (PCB)
SN43	43	SHA23-029177.043	Black IC (body) (PCB)
SN44	44	SHA23-029177.044	Brown capacitor (body) (PCB)
SN45	45	SHA23-029177.045	Black inductor (body) (PCB)
SN46	46	SHA23-029177.046	Silvery crystal resonator (body) (PCB)
SN47	47	SHA23-029177.047	Black PCB (body)
SN48	48	SHA23-029177.048	Green PCB (body)
SN49	49	SHA23-029177.049	Silvery metal (protective shell)
SN50	50	SHA23-029177.050	Black ferrite
SN51	51	SHA23-029177.051	Black plastic (bracket)
SN52	52	SHA23-029177.052	Yellow adhesive plastic (label)
SN53	53	SHA23-029177.053	Yellow adhesive plastic (label)



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SN ID	Sample No	SGS Sample ID	Description
SN54	54	SHA23-029177.054	Copper-colored metal (enamelled wire)
SN55	55	SHA23-029177.055	Silvery metal (pin)
SN56	56	SHA23-029177.056	Black adhesive (gasket cement)
SN57	57	SHA23-029177.057	Silvery metal (protective shell)
SN58	58	SHA23-029177.058	Silvery metal (fixed piece)
SN59	59	SHA23-029177.059	Black plastic (connecting shell)
SN60	60	SHA23-029177.060	Black plastic (fixed piece)
SN61	61	SHA23-029177.061	Silvery metal (pin)
SN62	62	SHA23-029177.062	Silvery metal (protective shell)
SN63	63	SHA23-029177.063	Black plastic (connecting shell)
SN64	64	SHA23-029177.064	Golden metal (pin)
SN65	65	SHA23-029177.065	Gray plastic (fixed piece)
SN66	66	SHA23-029177.066	Silvery metal (connecting shell)
SN67	67	SHA23-029177.067	Blue plastic (bracket)
SN68	68	SHA23-029177.068	Silvery metal (pin)
SN69	69	SHA23-029177.069	Black plastic (connecting shell)
SN70	70	SHA23-029177.070	Silvery metal (pin)
SN71	71	SHA23-029177.071	Silvery metal (guide vane)
SN72	72	SHA23-029177.072	Silvery metal (shell) (electrolytic capacitor)
SN73	73	SHA23-029177.073	Black rubber (electrolytic capacitor)
SN74	74	SHA23-029177.074	Silvery metal (aluminum foil) (electrolytic capacitor)
SN75	75	SHA23-029177.075	Silvery metal (aluminum foil) (electrolytic capacitor)
SN76	76	SHA23-029177.076	Black plastic (electrolytic capacitor)
SN77	77	SHA23-029177.077	Beige paper (electrolytic capacitor)
SN78	78	SHA23-029177.078	Silvery metal (pin) (electrolytic capacitor)
SN79	79	SHA23-029177.079	Black plastic (connecting shell)
SN80	80	SHA23-029177.080	Silvery metal (pin)
SN81	81	SHA23-029177.081	Black plastic (shell)
SN82	82	SHA23-029177.082	Black ferrite



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SN ID	Sample No	SGS Sample ID	Description
SN83	83	SHA23-029177.083	Silvery metal (pin)
SN84	84	SHA23-029177.084	Silvery inductor (body) (PCB)
SN85	85	SHA23-029177.085	Black IC (body) (PCB)
SN86	86	SHA23-029177.086	White IC (body) (PCB)
SN87	87	SHA23-029177.087	Black IC (body) (PCB)
SN88	88	SHA23-029177.088	Black IC (body) (PCB)
SN89	89	SHA23-029177.089	Black IC (body) (PCB)
SN90	90	SHA23-029177.090	Black diode (body) (PCB)
SN91	91	SHA23-029177.091	Black IC (body) (PCB)
SN92	92	SHA23-029177.092	Black IC (body) (PCB)
SN93	93	SHA23-029177.093	Black diode (body) (PCB)
SN94	94	SHA23-029177.094	Black IC (body) (PCB)
SN95	95	SHA23-029177.095	Gray inductor (body) (PCB)
SN96	96	SHA23-029177.096	Gray inductor (body) (PCB)
SN97	97	SHA23-029177.097	Gray inductor (body) (PCB)
SN98	98	SHA23-029177.098	Silvery metal (PCB)
SN99	99	SHA23-029177.099	Silvery metal (PCB)
SN100	100	SHA23-029177.100	Silvery metal (PCB)
SN101	101	SHA23-029177.101	Black IC (body) (PCB)
SN102	102	SHA23-029177.102	Black IC (body) (PCB)
SN103	103	SHA23-029177.103	Black inductor (body) (PCB)
SN104	104	SHA23-029177.104	Black plastic (PCB)
SN105	105	SHA23-029177.105	Black IC (body) (PCB)
SN106	106	SHA23-029177.106	Beige solid (PCB)
SN107	107	SHA23-029177.107	Silvery metal (PCB)
SN108	108	SHA23-029177.108	Brown inductor (body) (PCB)
SN109	109	SHA23-029177.109	Golden metal (PCB)
SN110	110	SHA23-029177.110	Black IC (body) (PCB)
SN111	111	SHA23-029177.111	Gray capacitor (body) (PCB)
SN112	112	SHA23-029177.112	Gray IC (body) (PCB)



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SN113	113	SHA23-029177.113	Black audion (body) (PCB)
SN114	114	SHA23-029177.114	Black IC (body) (PCB)
SN115	115	SHA23-029177.115	Black diode (body) (PCB)
SN116	116	SHA23-029177.116	Black IC (body) (PCB)
SN117	117	SHA23-029177.117	Black IC (body) (PCB)
SN118	118	SHA23-029177.118	Black IC (body) (PCB)
SN119	119	SHA23-029177.119	Black IC (body) (PCB)
SN120	120	SHA23-029177.120	Black IC (body) (PCB)
SN121	121	SHA23-029177.121	Black IC (body) (PCB)
SN122	122	SHA23-029177.122	Brown capacitor (body) (PCB)
SN123	123	SHA23-029177.123	Black inductor (body) (PCB)
SN124	124	SHA23-029177.124	Black diode (body) (PCB)
SN125	125	SHA23-029177.125	Brown capacitor (body) (PCB)
SN126	126	SHA23-029177.126	Gray capacitor (body) (PCB)
SN127	127	SHA23-029177.127	Silvery crystal resonator (body) (PCB)
SN128	128	SHA23-029177.128	Green PCB (body)
SN129	129	SHA23-029177.129	Silvery metal (soldering tin) (PCB)
SN130	130	SHA23-029177.130	Black IC (body) (PCB)
SN131	131	SHA23-029177.131	Black diode (body) (PCB)
SN132	132	SHA23-029177.132	Black IC (body) (PCB)
SN133	133	SHA23-029177.133	Black IC (body) (PCB)
SN134	134	SHA23-029177.134	Black IC (body) (PCB)
SN135	135	SHA23-029177.135	Black diode (body) (PCB)
SN136	136	SHA23-029177.136	Brown capacitor (body) (PCB)
SN137	137	SHA23-029177.137	Black IC (body) (PCB)
SN138	138	SHA23-029177.138	White inductor (body) (PCB)
SN139	139	SHA23-029177.139	White IC (body) (PCB)
SN140	140	SHA23-029177.140	Black IC (body) (PCB)
SN141	141	SHA23-029177.141	Brown capacitor (body) (PCB)
SN142	142	SHA23-029177.142	Black IC (body) (PCB)



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SN ID	Sample No	SGS Sample ID	Description
SN143	143	SHA23-029177.143	Gray inductor (body) (PCB)
SN144	144	SHA23-029177.144	Black IC (body) (PCB)
SN145	145	SHA23-029177.145	Black IC (body) (PCB)
SN146	146	SHA23-029177.146	Brown capacitor (body) (PCB)
SN147	147	SHA23-029177.147	Gray solid (PCB)



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Test Results :

Test Item(s)	1	2	3	4	5	6	7	8
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	ND	BL	BL	BL
PBBs	BL	---	---	BL	---	BL	---	ND
PBDEs	BL	---	---	BL	---	BL	---	ND
DBP	ND	---	---	BL	---	BL	---	ND
BBP	ND	---	---	BL	---	BL	---	ND
DEHP	ND	---	---	BL	---	BL	---	ND
DIBP	ND	---	---	BL	---	BL	---	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	9	10	11	12	13	14	15	16
Pb	BL	BL	BL	BL	OL▲	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	BL	BL	ND	ND	BL
PBBs	---	BL	---	BL	---	BL	---	BL
PBDEs	---	BL	---	BL	---	BL	---	BL
DBP	---	ND	---	ND	---	---	---	BL
BBP	---	ND	---	ND	---	---	---	BL
DEHP	---	ND	---	ND	---	---	---	BL
DIBP	---	ND	---	ND	---	---	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	17	18	19	20	21	22	23	24
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	---	BL	ND	ND	---	BL	BL



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Test Item(s)	17	18	19	20	21	22	23	24
PBDEs	BL	---	BL	ND	ND	---	BL	BL
DBP	BL	---	BL	BL	BL	---	ND	BL
BBP	BL	---	BL	BL	BL	---	ND	BL
DEHP	BL	---	BL	BL	BL	---	ND	BL
DIBP	BL	---	BL	BL	BL	---	ND	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	25	26	27	28	29	30	31	32
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	ND	BL	BL	BL	BL	BL
PBBs	BL	ND	BL	BL	---	ND	BL	---
PBDEs	BL	ND	BL	BL	---	ND	BL	---
DBP	BL	BL	---	BL	---	BL	BL	---
BBP	BL	BL	---	BL	---	BL	BL	---
DEHP	BL	BL	---	BL	---	BL	BL	---
DIBP	BL	BL	---	BL	---	BL	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	33	34	35	36	37	38	39	40
Pb	BL	BL	BL	BL	OL▲	BL	BL	OL▲
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	---	BL	ND	ND	---	---	---	---
PBDEs	---	BL	ND	ND	---	---	---	---
DBP	---	BL	BL	BL	---	---	---	---
BBP	---	BL	BL	BL	---	---	---	---
DEHP	---	BL	BL	BL	---	---	---	---
DIBP	---	BL	BL	BL	---	---	---	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS



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Test Item(s)	41	42	43	44	45	46	47	48
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	ND	BL	BL
PBBs	---	BL	BL	BL	BL	BL	ND	ND
PBDEs	---	BL	BL	BL	BL	BL	ND	ND
DBP	---	BL	BL	BL	ND	---	BL	BL
BBP	---	BL	BL	BL	ND	---	BL	BL
DEHP	---	BL	BL	BL	ND	---	BL	BL
DIBP	---	BL	BL	BL	ND	---	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	49	50	51	52	53	54	55	56
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	BL	BL	BL	BL	BL
PBBs	---	BL	BL	BL	BL	BL	---	BL
PBDEs	---	BL	BL	BL	BL	BL	---	BL
DBP	---	---	ND	BL	BL	ND	---	BL
BBP	---	---	ND	BL	BL	ND	---	BL
DEHP	---	---	ND	BL	BL	ND	---	BL
DIBP	---	---	ND	BL	BL	ND	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	57	58	59	60	61	62	63	64
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	BL	BL	BL	BL	BL	BL
PBBs	---	---	ND	ND	---	---	ND	---
PBDEs	---	---	ND	ND	---	---	ND	---
DBP	---	---	ND	BL	---	---	BL	---
BBP	---	---	ND	BL	---	---	BL	---
DEHP	---	---	ND	BL	---	---	BL	---
DIBP	---	---	ND	BL	---	---	BL	---



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Test Item(s)	57	58	59	60	61	62	63	64
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	65	66	67	68	69	70	71	72
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	BL	BL	BL	BL	ND	BL
PBBs	BL	---	BL	---	ND	---	---	---
PBDEs	BL	---	BL	---	ND	---	---	---
DBP	ND	---	BL	---	ND	---	---	---
BBP	ND	---	BL	---	ND	---	---	---
DEHP	ND	---	BL	---	ND	---	---	---
DIBP	ND	---	BL	---	ND	---	---	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	73	74	75	76	77	78	79	80
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	---	---	BL	BL	---	BL	---
PBDEs	BL	---	---	BL	BL	---	BL	---
DBP	BL	---	---	BL	BL	---	ND	---
BBP	BL	---	---	BL	BL	---	ND	---
DEHP	BL	---	---	BL	BL	---	ND	---
DIBP	BL	---	---	BL	BL	---	ND	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	81	82	83	84	85	86	87	88
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	ND	BL	BL	BL	BL
PBBs	BL	BL	---	BL	BL	ND	BL	BL
PBDEs	BL	BL	---	BL	BL	ND	BL	BL
DBP	BL	---	---	BL	BL	BL	BL	BL



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Test Item(s)	81	82	83	84	85	86	87	88
BBP	BL	---	---	BL	BL	BL	BL	BL
DEHP	BL	---	---	BL	BL	BL	BL	BL
DIBP	BL	---	---	BL	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	89	90	91	92	93	94	95	96
Pb	BL	BL	BL	BL	OL▲	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	ND	ND
PBBs	ND	BL	BL	BL	BL	BL	BL	BL
PBDEs	ND	BL	BL	BL	BL	BL	BL	BL
DBP	BL	BL	BL	ND	BL	BL	BL	BL
BBP	BL	BL	BL	ND	BL	BL	BL	BL
DEHP	BL	BL	BL	ND	BL	BL	BL	BL
DIBP	BL	BL	BL	ND	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	97	98	99	100	101	102	103	104
Pb	BL	OL▲	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	ND	BL	BL	BL	BL
PBBs	ND	---	---	---	BL	BL	BL	ND
PBDEs	ND	---	---	---	BL	BL	BL	ND
DBP	BL	---	---	---	BL	BL	BL	BL
BBP	BL	---	---	---	BL	BL	BL	BL
DEHP	BL	---	---	---	BL	BL	BL	BL
DIBP	BL	---	---	---	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	105	106	107	108	109	110	111	112
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)	---	---	---	<200 *	---	---	---	---



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Test Item(s)	105	106	107	108	109	110	111	112
Cr(VI)▼	BL	BL	BL	---	BL	BL	BL	BL
PBBs	ND	BL	---	BL	---	BL	BL	BL
PBDEs	ND	BL	---	BL	---	BL	BL	BL
DBP	ND	BL	---	BL	---	BL	BL	BL
BBP	ND	BL	---	BL	---	BL	BL	BL
DEHP	ND	BL	---	BL	---	BL	BL	BL
DIBP	ND	BL	---	BL	---	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	113	114	115	116	117	118	119	120
Pb	BL	BL	BL	19809▲	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	BL	BL	BL	BL	BL	BL
PBDEs	BL	BL	BL	BL	BL	BL	BL	BL
DBP	BL	BL	BL	BL	BL	ND	BL	BL
BBP	BL	BL	BL	BL	BL	ND	BL	BL
DEHP	BL	BL	BL	BL	BL	ND	BL	BL
DIBP	BL	BL	BL	BL	BL	ND	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	121	122	123	124	125	126	127	128
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	ND	BL
PBBs	BL	BL	BL	BL	BL	BL	BL	ND
PBDEs	BL	BL	BL	BL	BL	BL	BL	ND
DBP	BL	BL	BL	BL	BL	BL	---	BL
BBP	BL	BL	BL	BL	BL	BL	---	BL
DEHP	BL	BL	BL	BL	BL	BL	---	BL
DIBP	BL	BL	BL	BL	BL	BL	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS



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Test Item(s)	129	130	131	132	133	134	135	136
Pb	BL	BL	BL	BL	22468▲	8021▲	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	---	BL	BL	BL	BL	BL	BL	ND
PBDEs	---	BL	BL	BL	BL	BL	BL	ND
DBP	---	BL	ND	BL	BL	BL	BL	BL
BBP	---	BL	ND	BL	BL	BL	BL	BL
DEHP	---	BL	ND	BL	BL	BL	BL	BL
DIBP	---	BL	ND	BL	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	137	138	139	140	141	142	143	144
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	ND	BL
PBBs	BL	BL	ND	BL	BL	BL	ND	BL
PBDEs	BL	BL	ND	BL	BL	BL	ND	BL
DBP	BL	BL	BL	ND	BL	BL	BL	BL
BBP	BL	BL	BL	ND	BL	BL	BL	BL
DEHP	BL	BL	BL	ND	BL	BL	BL	BL
DIBP	BL	BL	BL	ND	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	145	146	147
Pb	BL	BL	BL
Cd	BL	BL	BL
Hg	BL	BL	BL
Cr(VI)▼	BL	BL	BL
PBBs	BL	ND	BL
PBDEs	BL	ND	BL
DBP	BL	BL	BL
BBP	BL	BL	BL
DEHP	BL	BL	BL
DIBP	BL	BL	BL



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Test Item(s)	145	146	147
Conclusion	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	Polymer	Metal	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 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 PBBs/PBDEs) are recommended to be performed.
- (d) The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) Screening results of Phthalates (PHTH) are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg).

Test Items	CAS No.	Polymer/ Composite Materials
Dibutyl Phthalate (DBP)	84-74-2	$BL \leq 600 < X$
Benzylbutyl Phthalate (BBP)	85-68-7	$BL \leq 600 < X$
Bis(2-ethylhexyl) Phthalate DEHP)	117-81-7	$BL \leq 600 < X$
Diisobutyl Phthalate (DIBP)	84-69-5	$BL \leq 600 < X$

- (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	Cd	Hg	DBP	BBP	DEHP	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 PBBs and PBDEs 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 0.10µg/cm².

- (c) ▼=Metal sample

- a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm².
The sample coating is considered to contain CrVI



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- b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²).
The coating is considered a non-CrVI 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 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)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.
- (5) IEC 62321 series is equivalent to EN 62321 series.

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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(6)▲=According to the declaration from the client,

Lead (Pb) in No.13, 37, 40, 98 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III

6(c)]: Copper alloy containing up to 4 % lead by weight.

Lead (Pb) in No.93, 116, 133, 134 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX

III 7(a)]: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

(7) * = Considering insufficient sample amount, the Method Detection Limit (MDL) is raised appropriately.

(8) Client Ref. Information:

WP546,WP543, WPJ543,WPE72,WPJ72Z, WPE418, WPE418 PS, WPE419,
WPJ344, WPJ344-A,WPJ558, WPJ558-A,WPJ342, WPJ342-A, WPJ342-GE,
WPE71-IS, WPE71-TS,BD5065,WPJ559, WPJ557-A, WPJ557,
WPJ419, WPJ419-B, WPJ419-VA, WPJ429,WPJ429-B,WPJ429-VA,WPJ429-CY,
WPJ531, WPJ531-A, WP531-VA,WPJ563, WPJ563-A, WPJ564,
AP148,WPQ864,WPQ862,WPQ865,WPQ865G,WPQ869,WPQ872,WPQ872-I,WPQ873,WPQ873-I,
WPQ874,WPQ876,WPQ878,DK01,HK01,DK03,MMQ872,MMQ872-LCS
MMQ873,MMO873,MMA873,MMO873-LCS,MMA873-LCS,
MMQ873-PCL,MMO873-PCL,MMA873-PCL
CP03,CP01,AP.DK01,AP.HK01,AP.DK03,AP.CP03,AP.CP01,AP.MI02.1,AP.AL02.3
PALM.AP,HK01.2,AP.HK01.2,WPQ618DG,MMQ618DG,WPQ618-CP
WPQ600, WPQ610, WPQ673,WPQ618,WPQ618-I,WPQ628,TSM400,
WLM200NX,WLM200N2-26,WLM200N2,WLM200N5-23ESD,WLM200N5-23ESD-4.9,
WLM200N5-26ESD, WLM200N5-26ESD-4.9,
WLE200NX, WLE200NX-I,WLE200N2, WLE200N2SM (300-07539) , WLE200N2-23,
WLE200N5-23ESD,WLE350NX, WLE351NX,WLE250NX, WLE251NX,
WLE350N5-25, WLE250N5-25,WLE350N2-25, WLE250N2-25,
WLE900V5-27ESD, WLE900V5-27ESD-I, WLE600V5-27ESD,WLE600V5-27,
WLE900VX, WLE900VX-I, WLE600VX, WLE600VX-I,
WLE1200V2,WLE1200V2-22,WLE1200V5,WLE1200V5-18,WLE1200V5-20,



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WLE1200V5-23,WLE1000V5-20,WLE1000V5-20-I,WLE1216V2-20,WLE1216V2-20-I,WLE1216VX,WLE1216VX-I,WLE1216V5-20,WLE1216V5-20-I, WLE1216V5-23,WLE1216V5-23-I,WLE650V5-18,WLE650V5-18A,WLE650V5-18I,WLE650V5-18A-I,WLE650V5-18-I,WLE650V5-23,WLE650V5-25,WLE650V5-25A,WLE650V5-25A-I,WLE650V5-25-I,WLE350N5-20J, WSD377, WLT674,WLE200-3G6, WLE250-900M,WLU200NX,WLU35,WLU201NX,WLT654,WLT654-A,WLT654-B,WLE654AX,WLE3000H2, WLE3000H2-I, WLE3000H5, WLE3000H5-I, WLE3000H6, WLE3000H6-I,WLE1500H2,WLE1500H2-I, WLE1500H5,WLE1500H5-I, WLE1500H6, WLE1500H6-I,WLE3000H25,WLE3000H25-I,WLT3000H25,WLT3000H25-I,WLT639,WLT3000H5,WLT3000H5-I,WLT3000H2,WLT3000H2-I,WLE3000HX,WLE3000HX-I,WLT3000HX,WLT3000HX-I,WLT1500H2,WLT1500H2-I,WLT1500H5,WLT1500H5-I,WLT3000H6,WLT3000H6-I,WLT1500H6,WLT1500H6-I,WLE3002HX,WLE3002HX-I,WLE3003HX,WLE3003HX-I,WLE3000H56,WLE3000H56HP,WLE3000H56LP,WLW7000E2,WLW7000E5,WLW7000E6,WLW7002E25,WLW7002E26,WLW7002E56,WLE7002E25,WLE7002E56,WLE7002E26,WLW3000H6E,WLW3000H6U,WLW3000H6,WLT206H,WLT206,WLE206,WLE206H,WLW518,WLW518H25-V,WPQ518-VA,WSB419,WSB429,WSB419-B,WSB429-B,WPQ518,WPQ518-VA,WPQ950,PN01.1,PN02.1,PN02.3,PN02.6,PN02.7,RA.PN01.1,RA.PN02.1,RA.PN02.3,RA.PN02.6,RA.PN02.7,POE 3AF 6A02 MODULE,PSE MODULE-5980-6A02,PSE-LTC4274A-6A01,POE-LT4276B-6C01,POE-MAX5974A-6B01,POE-MAX5974A-6B03,POE-MAX5974A-6B05,POE-MAX5974A-6B06,POE-MAX5974A-6B07,POEGAT60-56110,P-SMA-DP ,P-SMA-DP-LTE,SMA-DP,SMA-DP-LTE,2N7-VP-UFL , 5N13-MMCX , 5N13-UFL , 5N17 ,PYRAMID-2.4G4.40DBI-UFL ,PYRAMID-5DBI-4SIDE-2MMCX ,PYRAMID-5DBI-4SIDE-4UFL ,PYRAMID-5DBI-ASS-1-UFL ,PYRAMID-5DBI-ASS-MMCX,PYRAMID-5DBI-ASS-UFL,PYRAMID-5DBI-ASS-UFL-1,PYRAMID-5DBI-ASS-UFL600VX ,FLAT-5G-7.1-12E-12UFL-TE ,FLAT-6DBI-2.45G-12UFL-TE,FLAT-7-2.45G-12UFL-HK1-TE,FLAT-7DBI-2.45G-12UFL,FLATANT-6DBI-2X2-4UFL ,FLATANT-6DBI-3X3-6UFL,FLATANT-6DBI-3X3-6UFL-SPL ,FLATANT-6DBI-4X4-8UFL ,MT0152570,ROUND-6DBI-4X4-8UFL,ROUND-6DBI-4X4-8UR2.0,ROUND-6DBI-4X4-8UFL-03TE

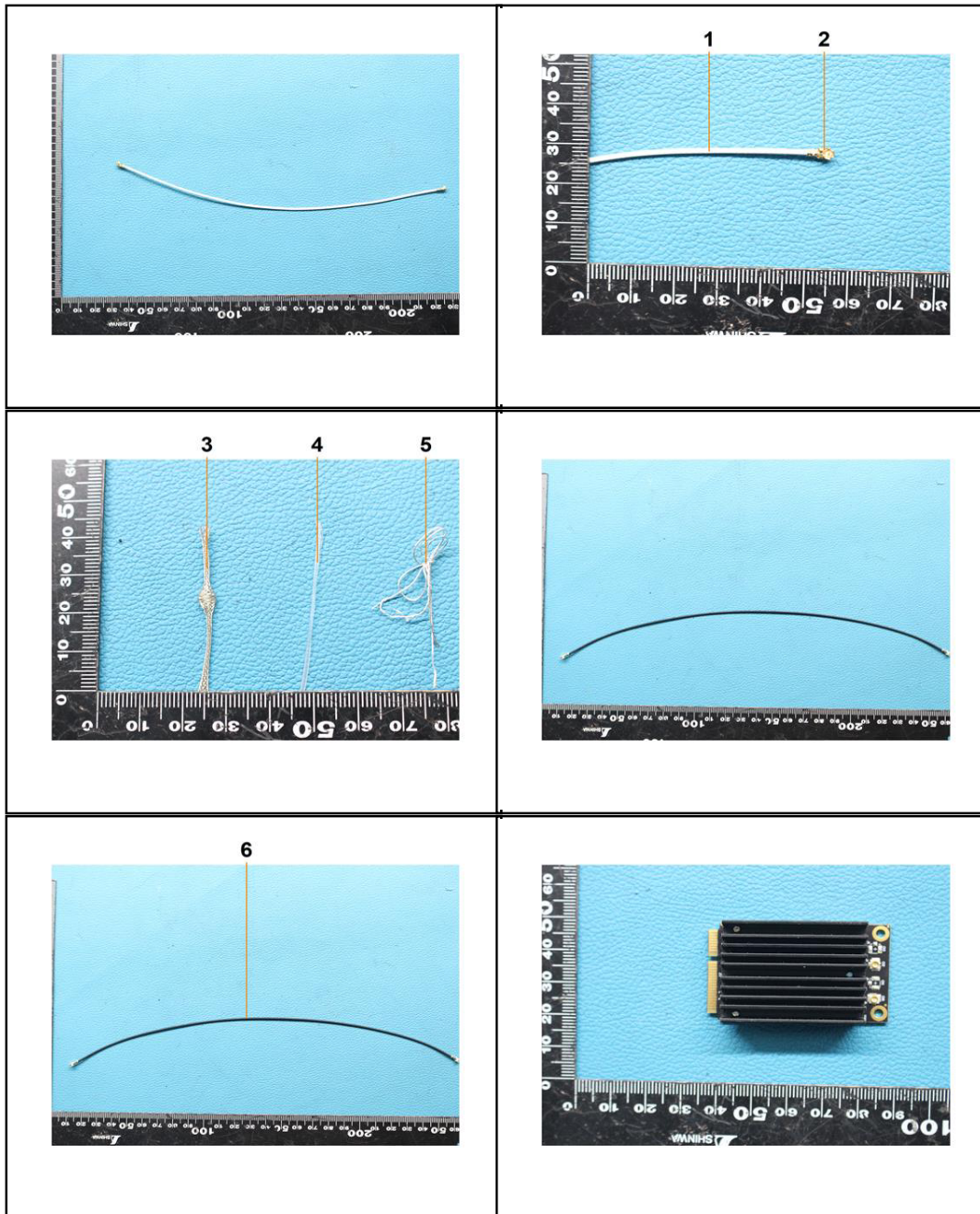


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Sample photo:



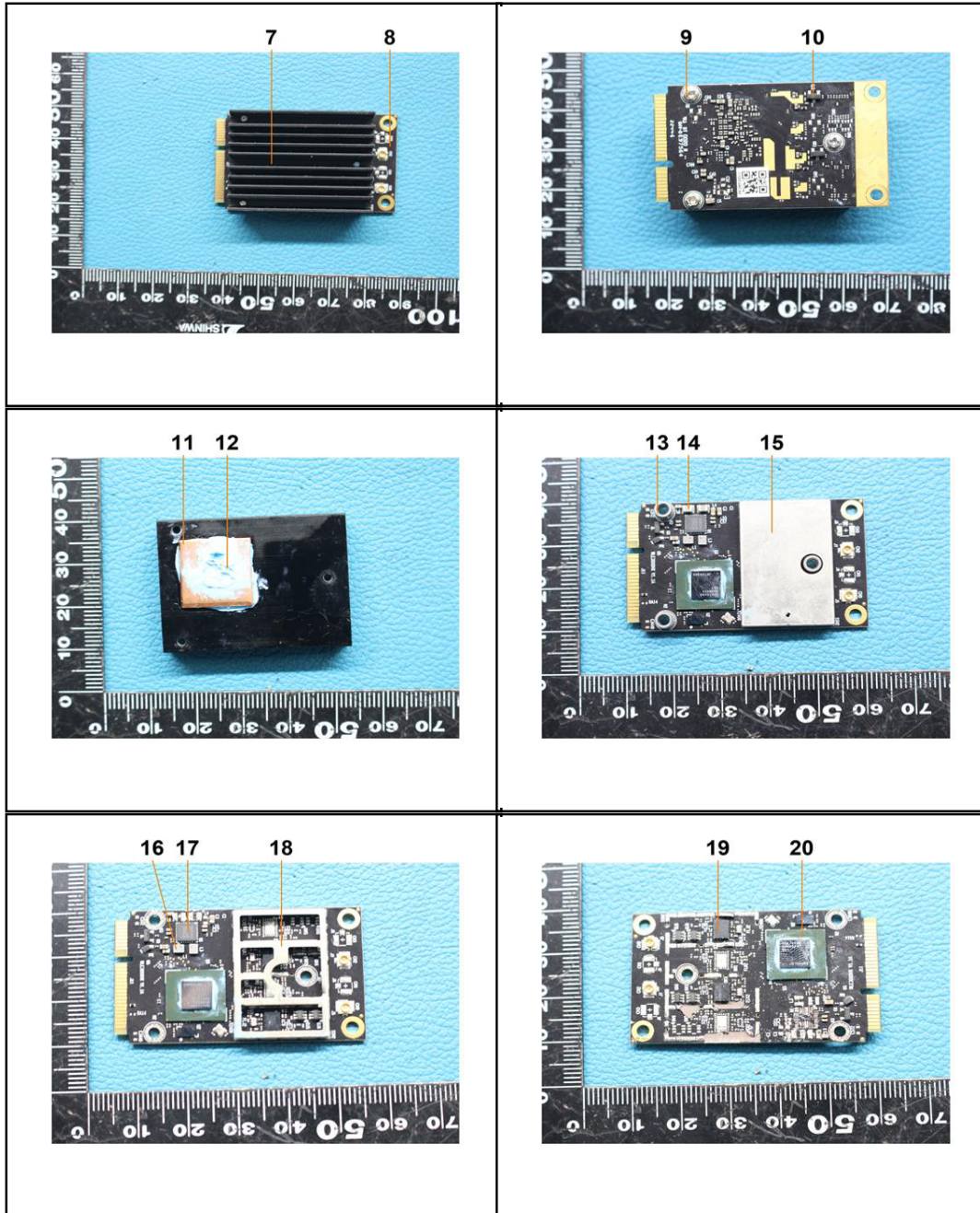
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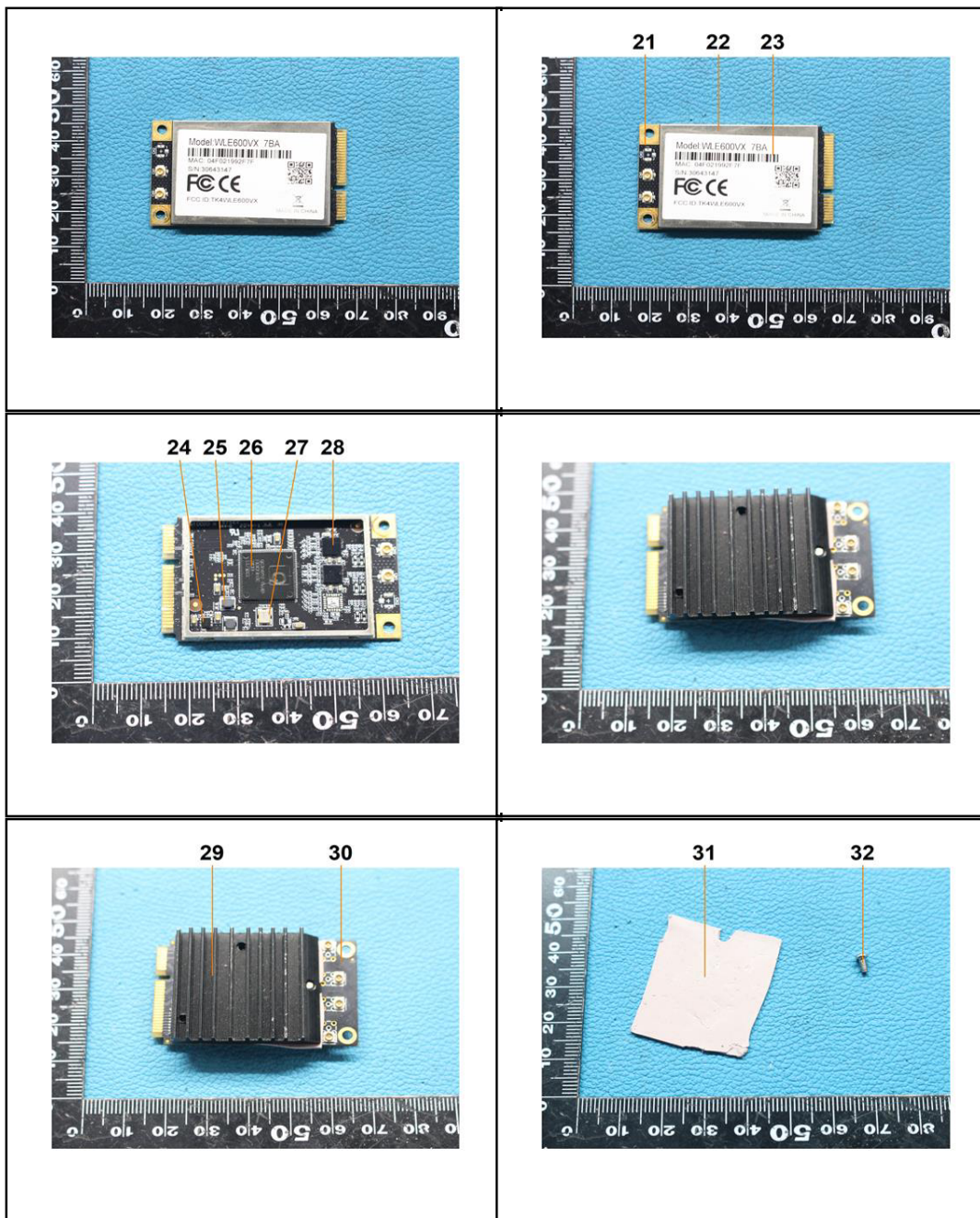
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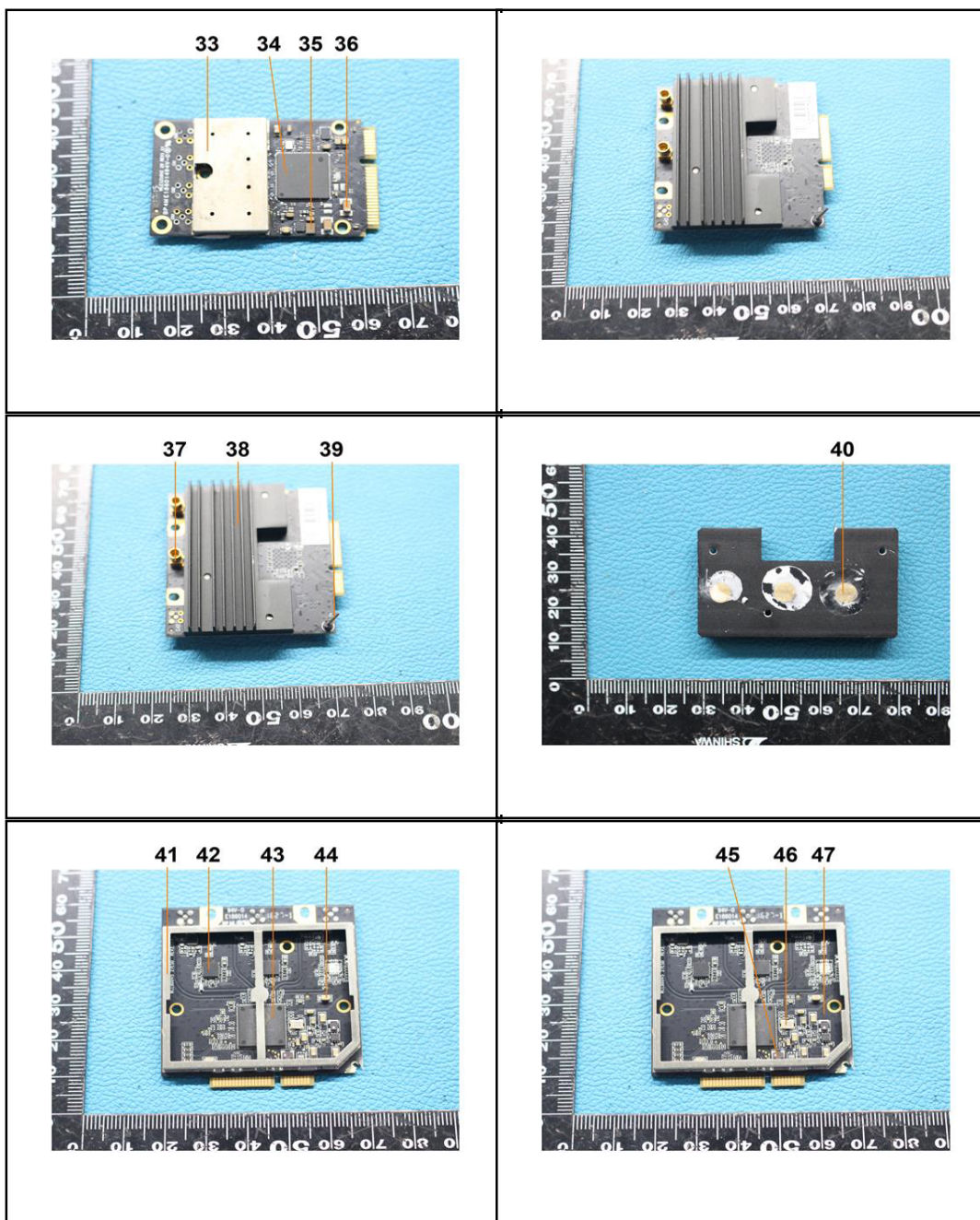
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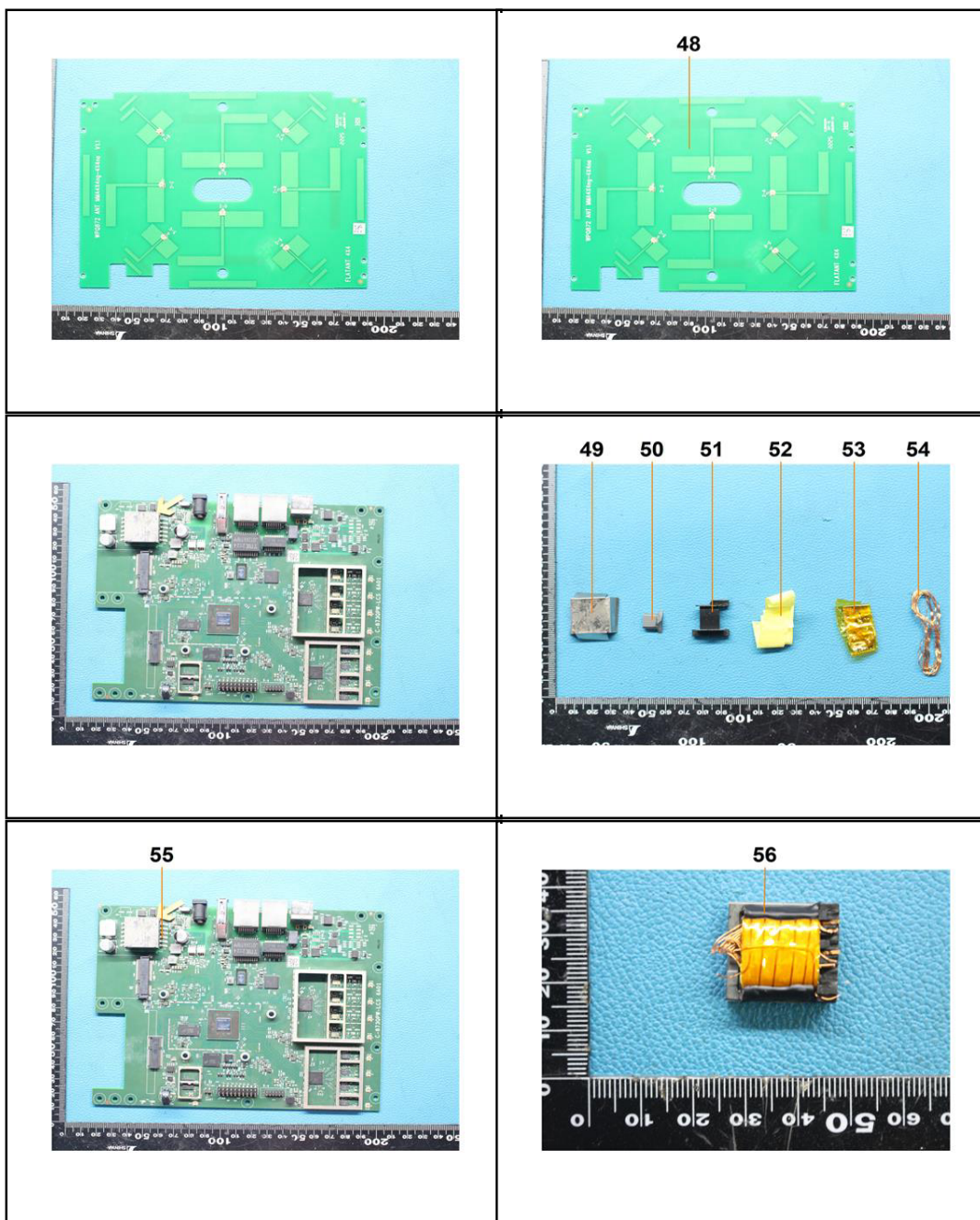
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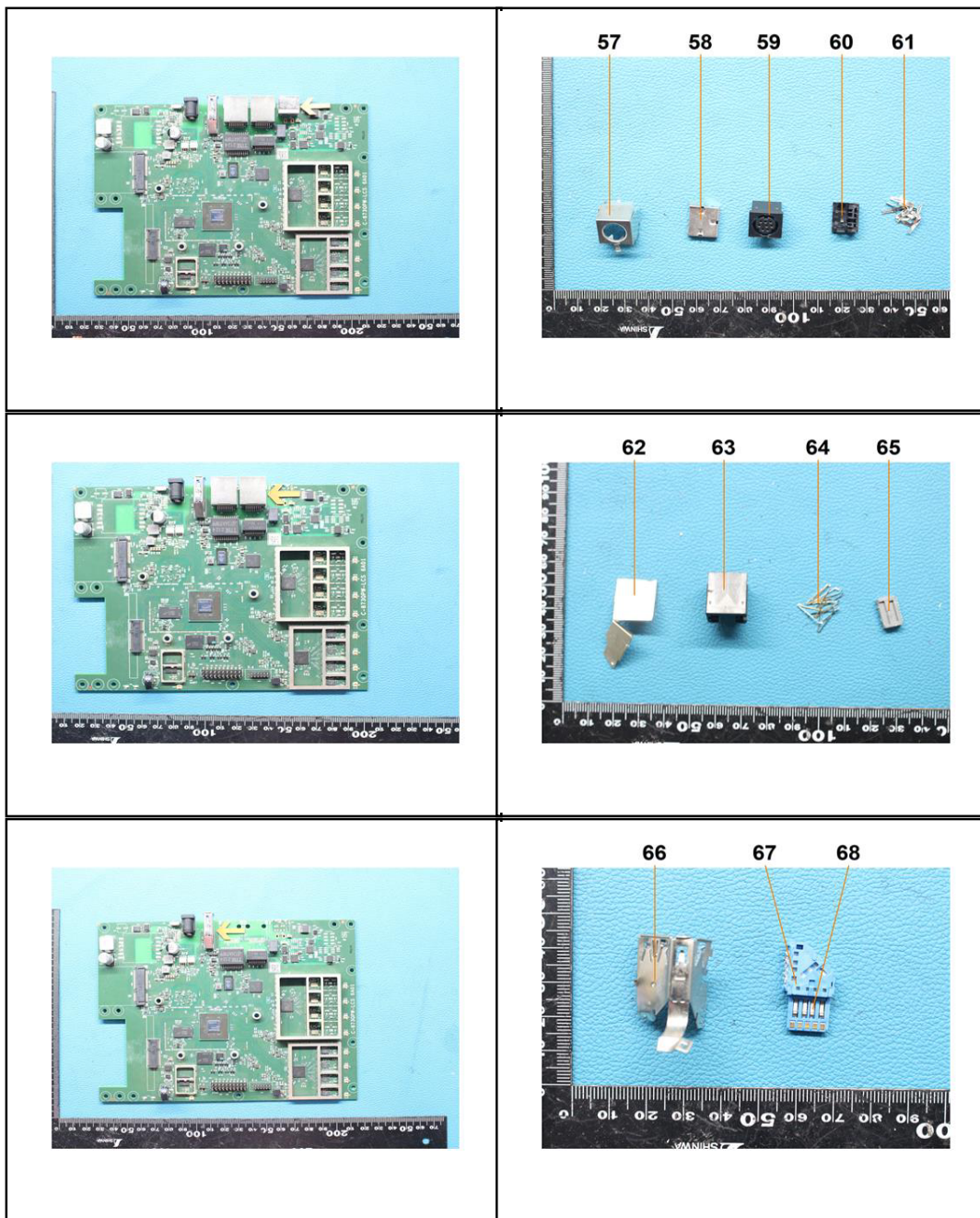
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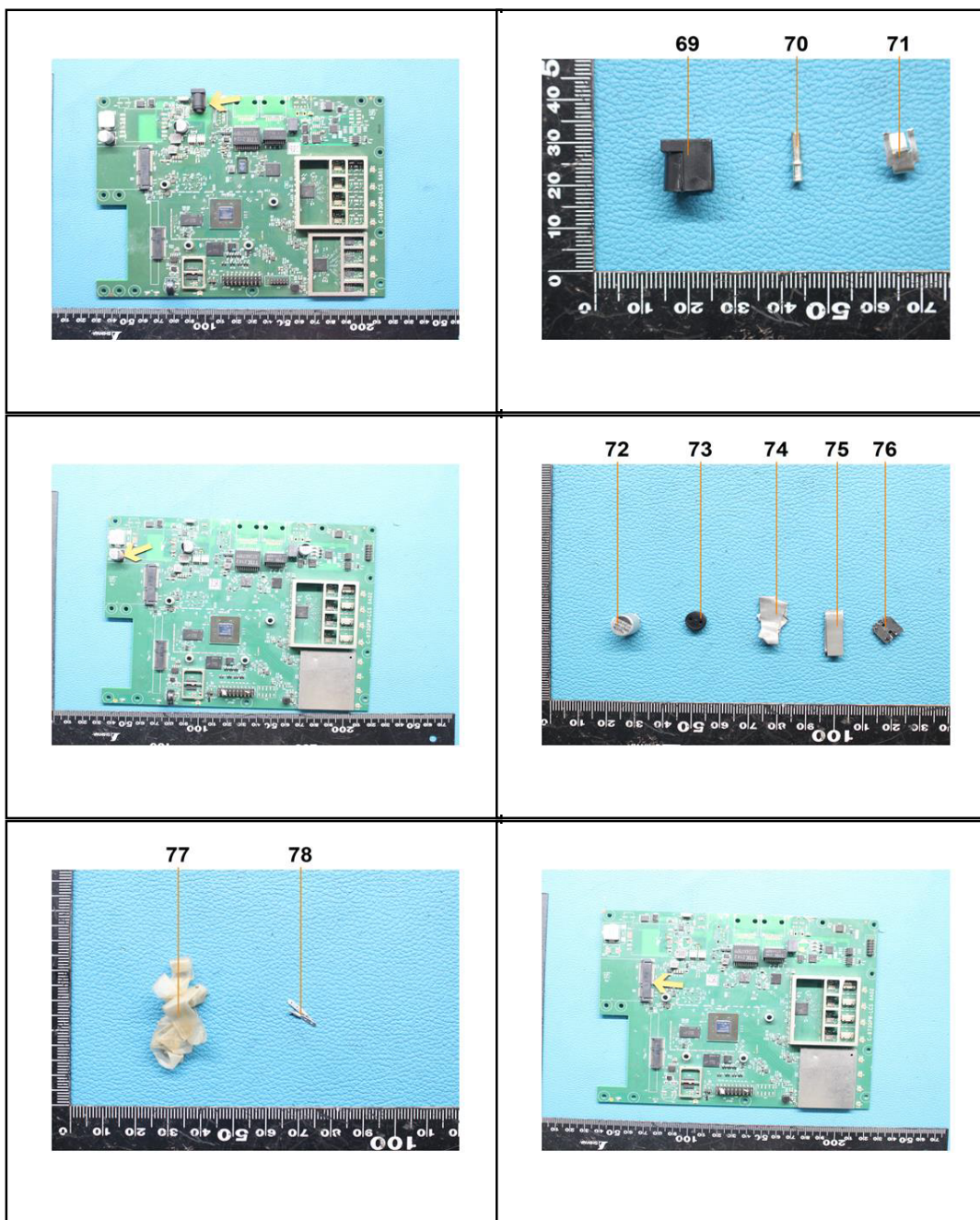


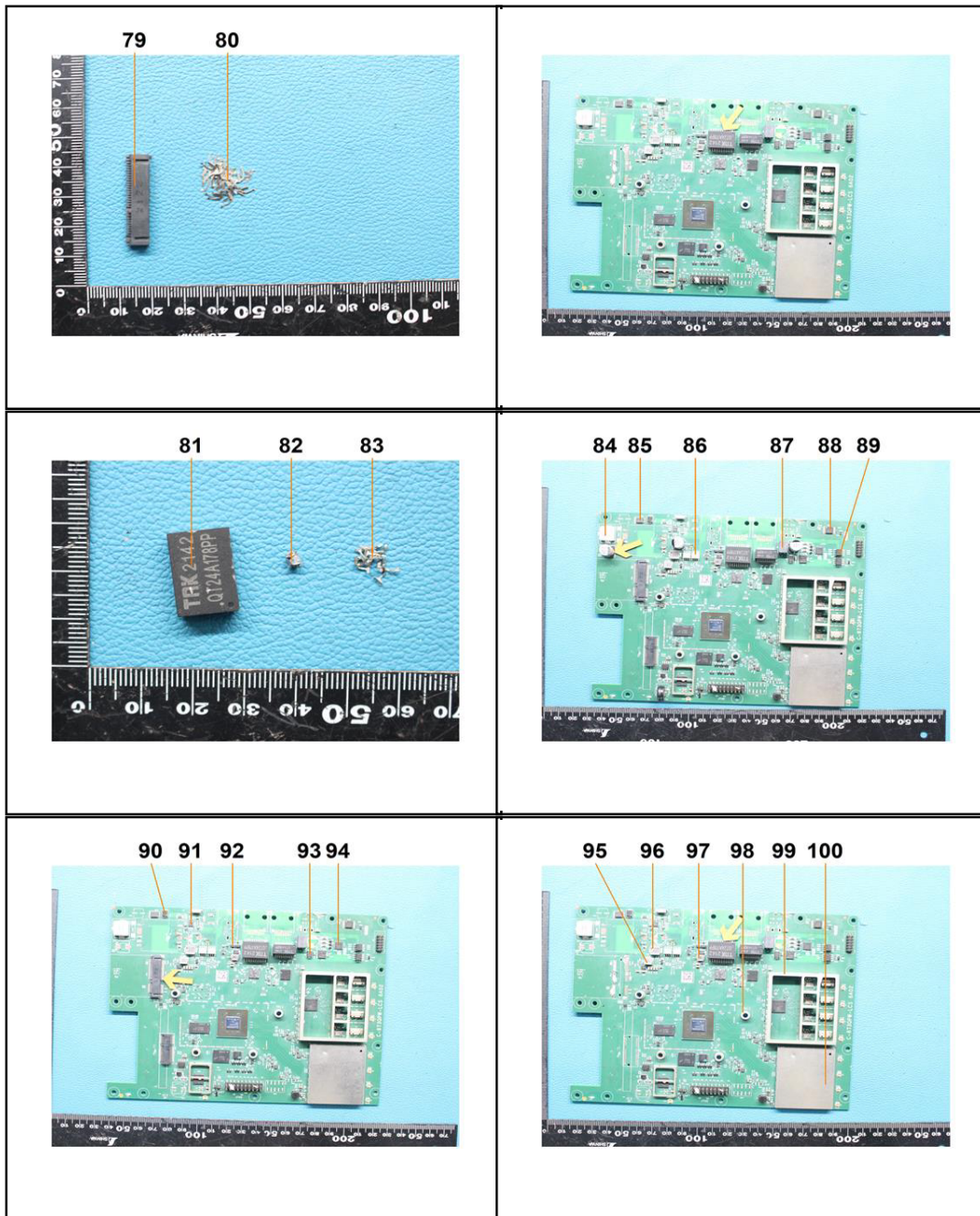


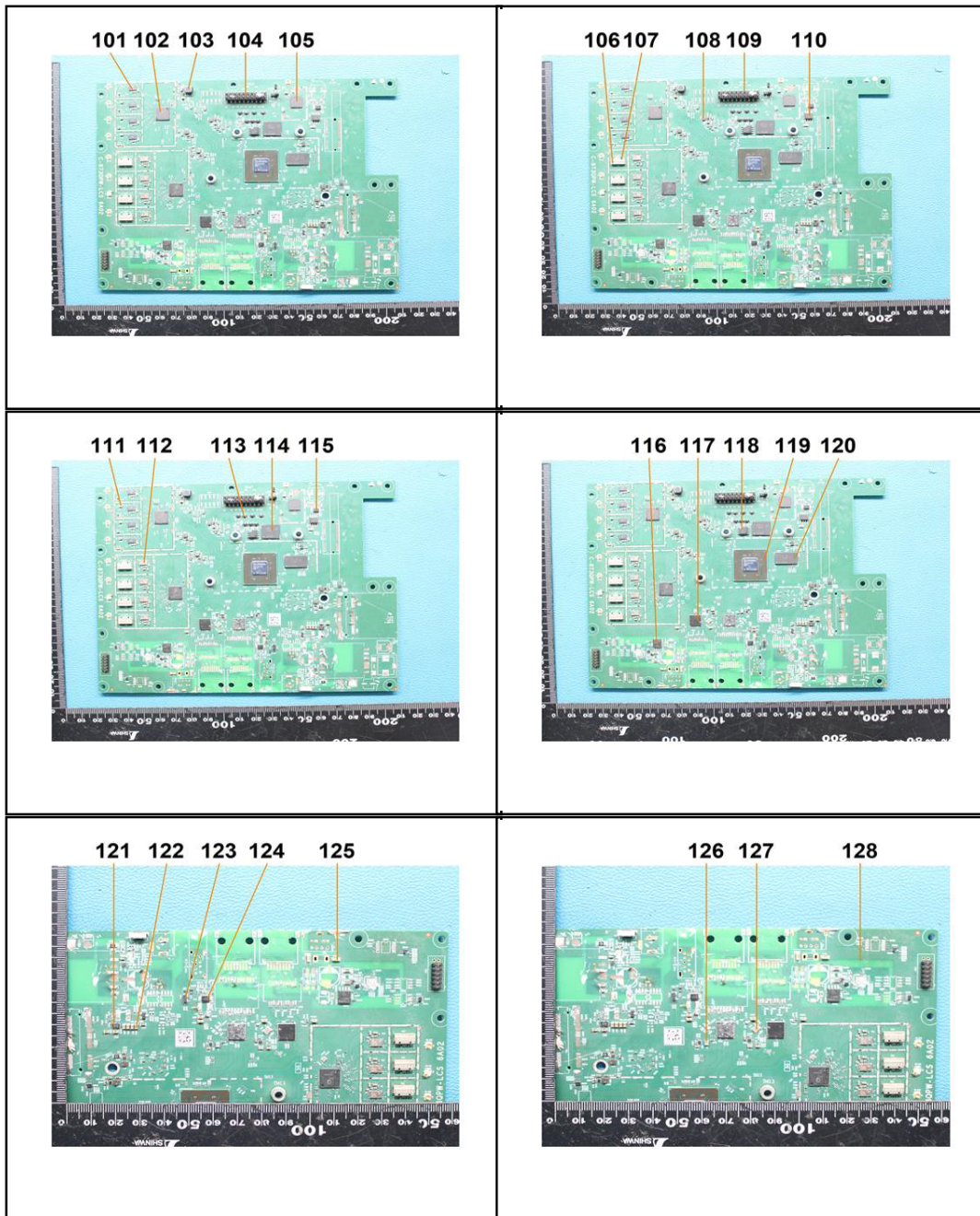


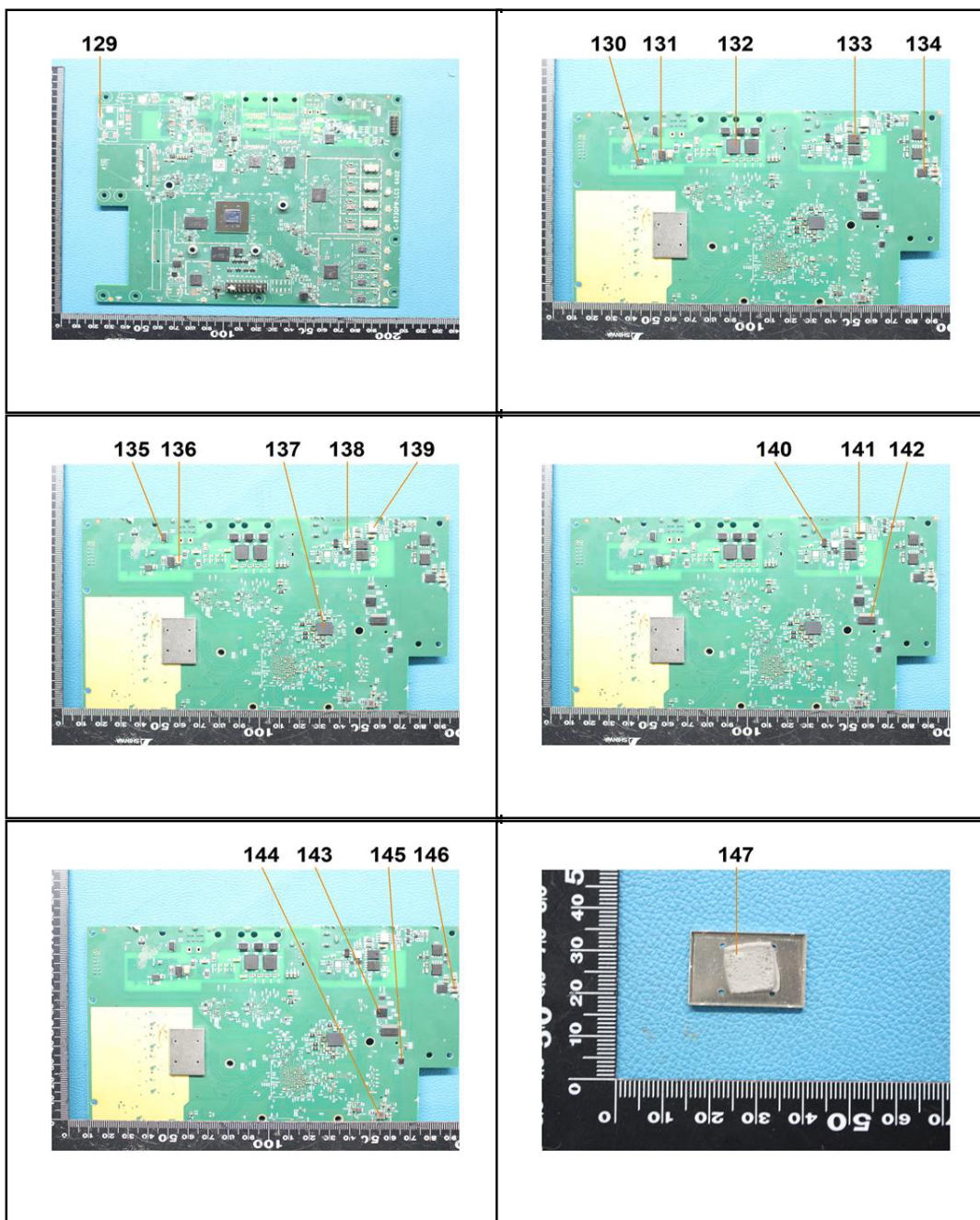












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