

## Verification Report No.: SHAEC22004888401

Date: Feb 08, 2023

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Client Name: Suzhou Blauberg Motor Technology CO., LTD.

Client Address: No. 8 Zhujie, Suzhou Industrial Park, Suzhou Jiangsu, China

Sample Name: FAN

Tested Basic Model No.: EC72

Client Ref. Information: EC59, EC92

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

SGS Job No.: SP22-028629

Sample Receiving Date: Dec 15, 2022

Verification Period: Dec 15, 2022 - Jan 09, 2023

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 (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



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Photo of Submitted Sample



EC72

### 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, ISO 17075-1:2017, 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	SHA22-0048884-0001.C001	Silvery metal (screw)
SN2	A2	SHA22-0048884-0001.C002	Silvery metal (washer)
SN3	A3	SHA22-0048884-0001.C003	Silvery metal (washer)
SN4	A4	SHA22-0048884-0001.C004	Golden metal (screw sleeve)
SN5	A5	SHA22-0048884-0001.C005	Black plastic (fixed block)
SN6	A6	SHA22-0048884-0001.C006	Black plastic (fixed board)
SN7	A7	SHA22-0048884-0001.C007	Red plastic (fixed block)
SN8	A8	SHA22-0048884-0001.C008	Black metal (washer)
SN9	A9	SHA22-0048884-0001.C009	Silvery metal (washer)
SN10	A10	SHA22-0048884-0001.C010	Silvery metal (shell)
SN11	A11	SHA22-0048884-0001.C011	Silvery metal (dowel)
SN12	A12	SHA22-0048884-0001.C012	Black coating (shell)
SN13	A13	SHA22-0048884-0001.C013	Silvery metal (substrate) (shell)
SN14	A14	SHA22-0048884-0001.C014	Silvery metal (fixed piece)
SN15	A15	SHA22-0048884-0001.C015	Black rubber (protective shell)
SN16	A16	SHA22-0048884-0001.C016	Silvery metal (fixed block)
SN17	A17	SHA22-0048884-0001.C017	Silvery metal (screw)
SN18	A18	SHA22-0048884-0001.C018	Silvery metal (screw)
SN19	A19	SHA22-0048884-0001.C019	Black plastic (fixed shell)
SN20	A20	SHA22-0048884-0001.C020	Silvery metal (guide vane)
SN21	A21	SHA22-0048884-0001.C021	Silvery metal (pin)
SN22	A22	SHA22-0048884-0001.C022	Black plastic (jacket)
SN23	A23	SHA22-0048884-0001.C023	Red plastic (wire sheath) (wire harness)
SN24	A24	SHA22-0048884-0001.C024	White plastic (wire sheath) (wire harness)
SN25	A25	SHA22-0048884-0001.C025	Yellow plastic (wire sheath) (wire harness)
SN26	A26	SHA22-0048884-0001.C026	Yellow/Green plastic (wire sheath) (wire harness)
SN27	A27	SHA22-0048884-0001.C027	Brown plastic (wire sheath) (wire harness)
SN28	A28	SHA22-0048884-0001.C028	Blue plastic (wire sheath) (wire harness)
SN29	A29	SHA22-0048884-0001.C029	Black plastic (jacket)
SN30	A30	SHA22-0048884-0001.C030	Black rubber (fixed block)
SN31	A31	SHA22-0048884-0001.C031	Black plastic (fixed block)
SN32	A32	SHA22-0048884-0001.C032	Golden metal (pin)
SN33	A33	SHA22-0048884-0001.C033	Yellow adhesive plastic (adhesive tape)
SN34	A34	SHA22-0048884-0001.C034	Black plastic (bracket)
SN35	A35	SHA22-0048884-0001.C035	Yellow plastic (shell)
SN36	A36	SHA22-0048884-0001.C036	Yellow adhesive (gasket cement)
SN37	A37	SHA22-0048884-0001.C037	Yellow plastic (fixed piece)
SN38	A38	SHA22-0048884-0001.C038	Brown plastic (shell)
SN39	A39	SHA22-0048884-0001.C039	Black plastic (fixed block)
SN40	A40	SHA22-0048884-0001.C040	Silvery metal (guide vane)
SN41	A41	SHA22-0048884-0001.C041	Silvery metal (guide vane)
SN42	A42	SHA22-0048884-0001.C042	Silvery metal (guide vane)
SN43	A43	SHA22-0048884-0001.C043	Green capacitor (body) (PCB)
SN44	A44	SHA22-0048884-0001.C044	Black IC (body) (PCB)



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SN ID	Sample No.	SGS Sample ID	Description
SN45	A45	SHA22-0048884-0001.C045	Silvery metal (soldering tin) (PCB)
SN46	A46	SHA22-0048884-0001.C046	Green PCB (body)
SN47	A47	SHA22-0048884-0001.C047	White adhesive (gasket cement)



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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
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	OL▲	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	ND	ND	BL	BL	BL	BL	ND
PBBs	---	---	---	---	ND	BL	BL	---
PBDEs	---	---	---	---	ND	BL	BL	---
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

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

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	OL▲	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
PBDEs	---	---	BL	---	---	BL	BL	BL
DBP	---	---	BL	---	---	BL	BL	BL
BBP	---	---	BL	---	---	BL	BL	BL
DEHP	---	---	BL	---	---	BL	BL	BL
DIBP	---	---	BL	---	---	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

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



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Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
PBBs	BL	BL	BL	BL	BL	BL	BL	---
PBDEs	BL	BL	BL	BL	BL	BL	BL	---
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

Test Item(s)	A33	A34	A35	A36	A37	A38	A39	A40
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	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	ND	BL	BL	---
PBDEs	BL	BL	ND	ND	ND	BL	BL	---
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

Test Item(s)	A41	A42	A43	A44	A45	A46	A47
Cd	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	ND	OL ▲	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL
Cr(VI) ▼	BL	BL	ND	BL	BL	BL	BL
PBBs	---	---	BL	BL	---	ND	BL
PBDEs	---	---	BL	BL	---	ND	BL
DBP	---	---	BL	BL	---	BL	BL
BBP	---	---	BL	BL	---	BL	BL
DEHP	---	---	BL	BL	---	BL	BL
DIBP	---	---	BL	BL	---	BL	BL
Conclusion	PASS	PASS	PASS	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	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	$BL \leq (700-3\sigma) < X$ $X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$ $X < (1500+3\sigma) \leq OL$
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,



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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 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.

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

Lead (Pb) in No. A4, A21, A32 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.A44 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(c)-I]: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

(7) According to the declaration from applicant, the materials of Model "EC72" are the same as those in Model "EC59, EC92" and its results for support the results of Model "EC59, EC92". The applicant will take the responsibility of all discrepancy and risk.

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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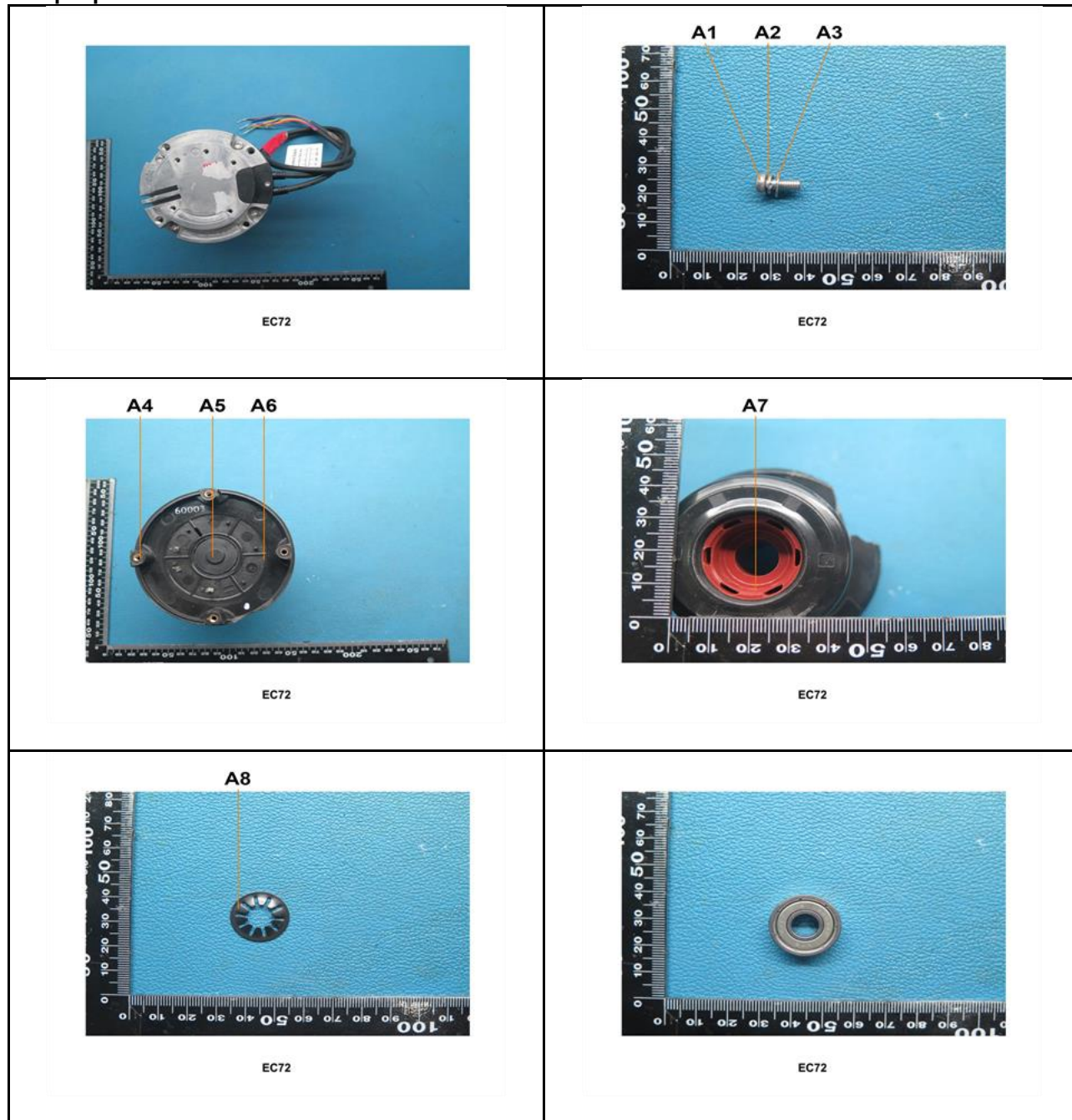
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**Sample photos:**



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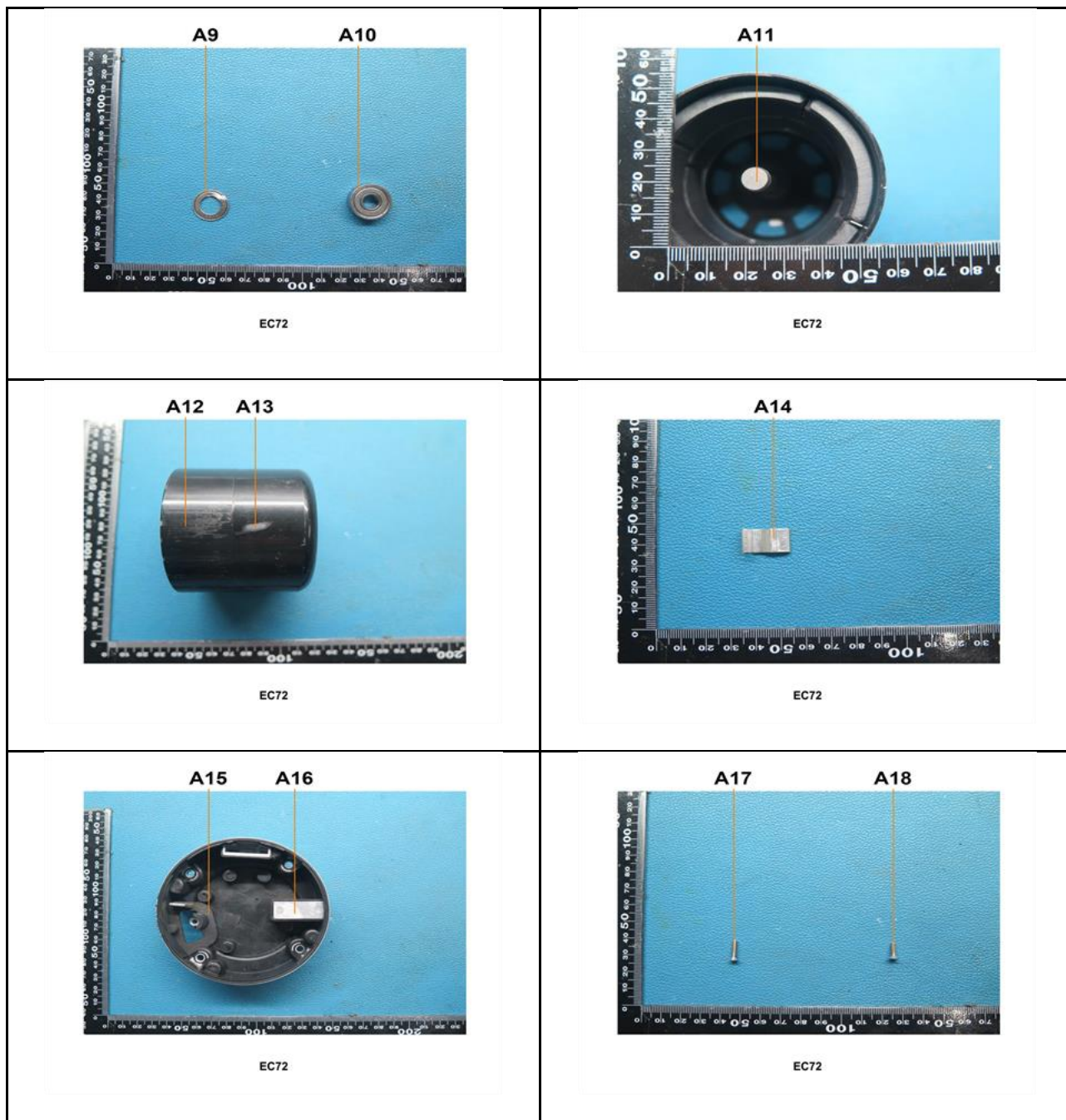
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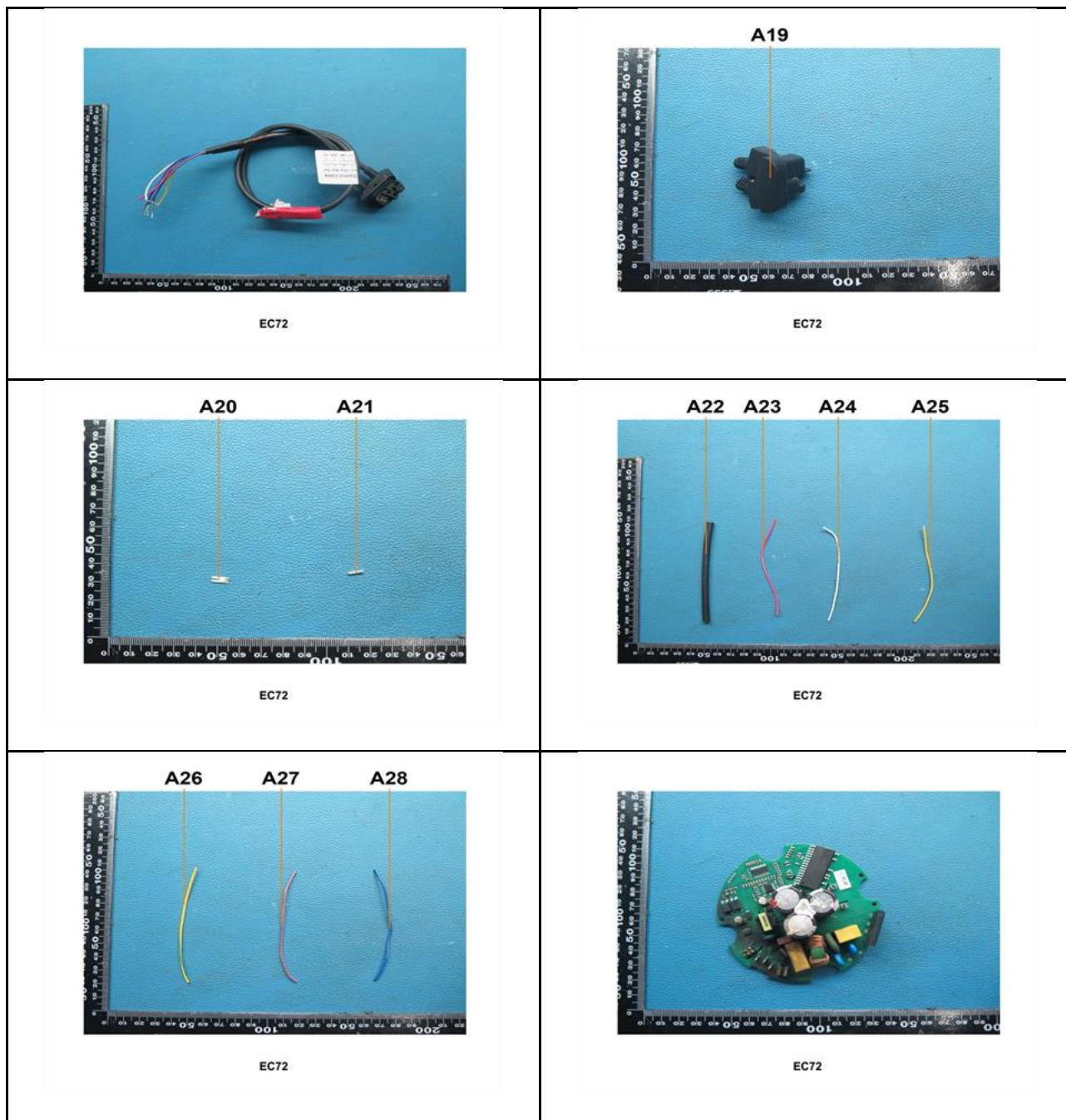


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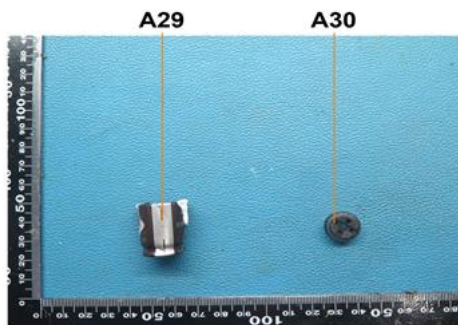
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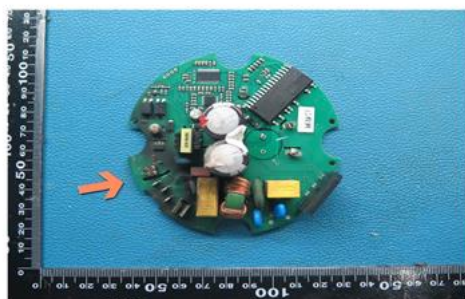
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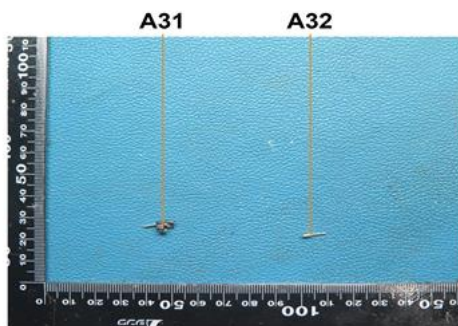
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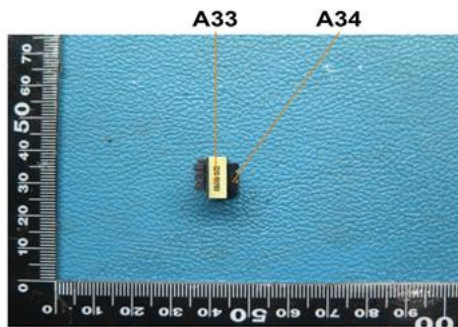
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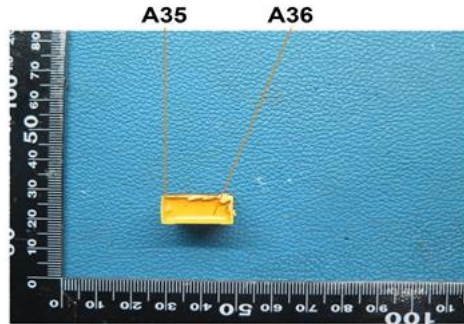
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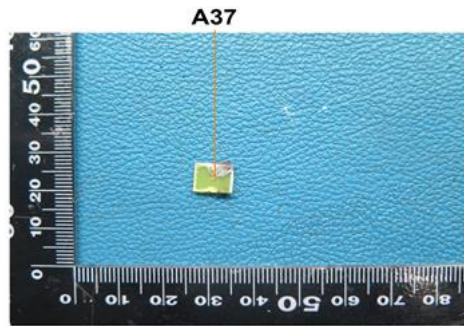
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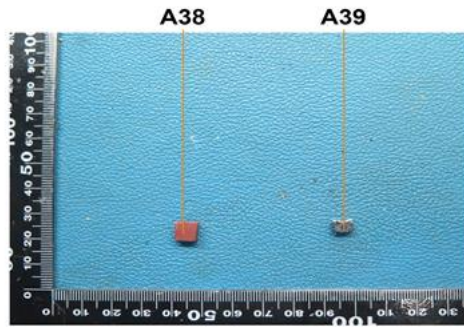
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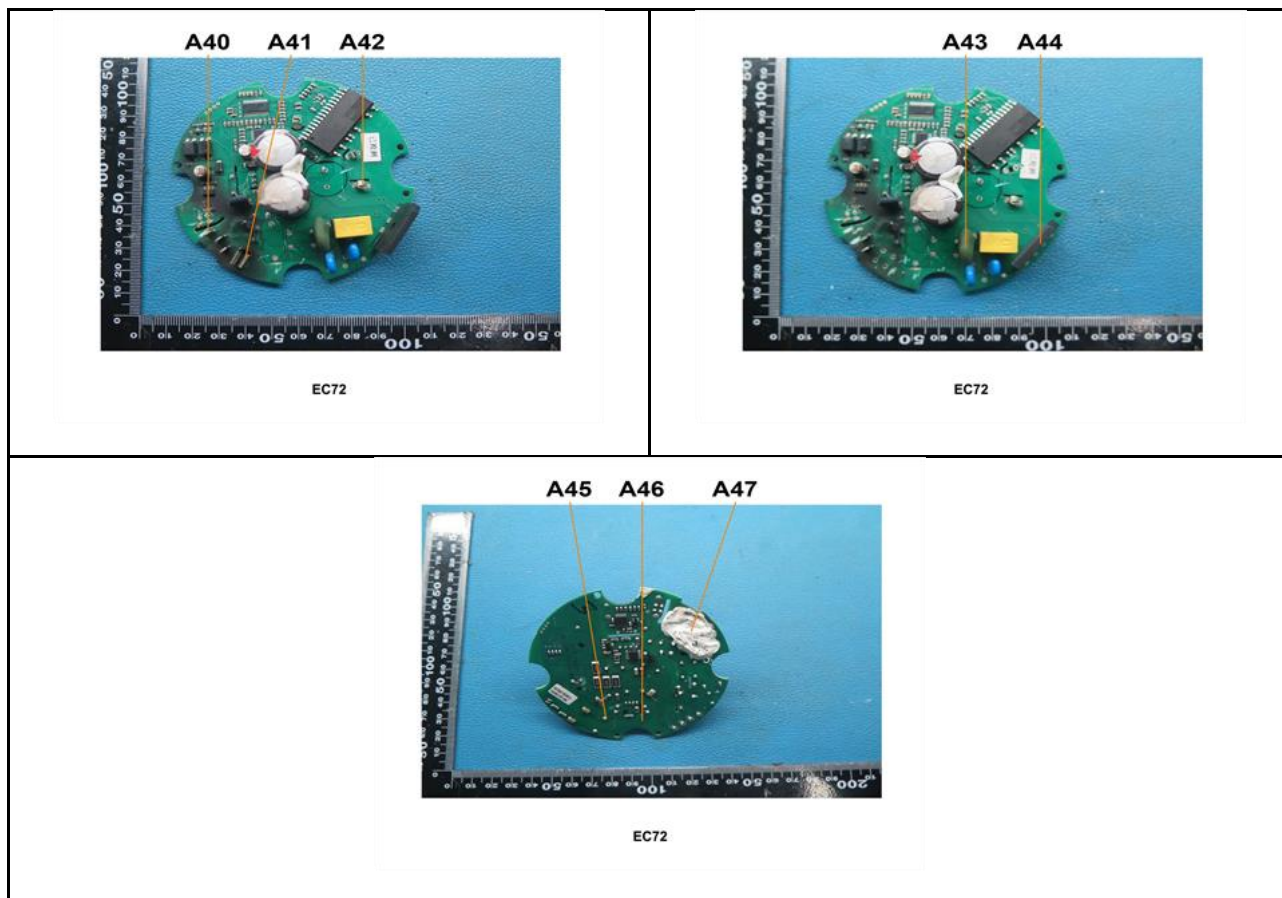
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