

Client Name: SHENZHEN RAKWIRELESS TECHNOLOGY CO.,LTD
Client Address: ROOM 506, BUILDING B, NEW COMPARK, PINGSHAN FIRST ROAD, TAOYUAN STREET, NANSHAN DISTRICT, SHENZHEN, GUANGDONG, CHINA

Sample Name: WisNode Bridge Serial Prime
Tested Basic Model No.: RAK2470

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

SGS Job No.: SZP24-036231
Sample Receiving Date: Aug 15, 2024
Verification Period: Aug 15, 2024 ~ Aug 29, 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. Shenzhen Branch

Tina Fan
 Approved Signatory

scan to see the report



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Photo of Submitted Sample



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	SZX24-0026293-0001.C001	Black plastic (Cable jacket)
SN2	A2	SZX24-0026293-0001.C002	Black plastic part
SN3	A3	SZX24-0026293-0001.C003	Black plastic part
SN4	A4	SZX24-0026293-0001.C004	Golden metal pin
SN5	A5	SZX24-0026293-0001.C005	Silvery metal solder
SN6	A6	SZX24-0026293-0001.C006	White plastic (Wire insulation)
SN7	A7	SZX24-0026293-0001.C007	Black plastic (Wire insulation)
SN8	A8	SZX24-0026293-0001.C008	Yellow plastic (Wire insulation)
SN9	A9	SZX24-0026293-0001.C009	Red plastic (Wire insulation)
SN10	A10	SZX24-0026293-0001.C010	Black plastic part
SN11	A11	SZX24-0026293-0001.C011	Black soft plastic ring
SN12	A12	SZX24-0026293-0001.C012	Black plastic part
SN13	A13	SZX24-0026293-0001.C013	Black soft plastic part
SN14	A14	SZX24-0026293-0001.C014	White plastic part
SN15	A15	SZX24-0026293-0001.C015	Silvery metal pin
SN16	A16	SZX24-0026293-0001.C016	Cream plastic part with white surface
SN17	A17	SZX24-0026293-0001.C017	Translucent white dry glue
SN18	A18	SZX24-0026293-0001.C018	Silvery metal part
SN19	A19	SZX24-0026293-0001.C019	Silvery metal part
SN20	A20	SZX24-0026293-0001.C020	White plastic label with black printing
SN21	A21	SZX24-0026293-0001.C021	Black sponge with adhesive glue
SN22	A22	SZX24-0026293-0001.C022	Black body
SN23	A23	SZX24-0026293-0001.C023	Black body
SN24	A24	SZX24-0026293-0001.C024	Black body
SN25	A25	SZX24-0026293-0001.C025	Black body
SN26	A26	SZX24-0026293-0001.C026	Black body
SN27	A27	SZX24-0026293-0001.C027	Silvery metal cover with yellow surface
SN28	A28	SZX24-0026293-0001.C028	Cream plastic part
SN29	A29	SZX24-0026293-0001.C029	Silvery metal pin
SN30	A30	SZX24-0026293-0001.C030	Silvery metal part
SN31	A31	SZX24-0026293-0001.C031	Silvery metal part
SN32	A32	SZX24-0026293-0001.C032	Silvery metal part
SN33	A33	SZX24-0026293-0001.C033	Black plastic part
SN34	A34	SZX24-0026293-0001.C034	Silvery metal pin with golden surface
SN35	A35	SZX24-0026293-0001.C035	Silvery metal solder
SN36	A36	SZX24-0026293-0001.C036	Black "PCB"
SN37	A37	SZX24-0026293-0001.C037	Black body
SN38	A38	SZX24-0026293-0001.C038	Silvery metal solder
SN39	A39	SZX24-0026293-0001.C039	Green "PCB"
SN40	A40	SZX24-0026293-0001.C040	Black plastic part



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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	26319▲	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	---	---	BL	ND	BL
PBDE	ND	ND	ND	---	---	BL	ND	BL
DEHP	ND	ND	ND	---	---	ND	ND	ND
BBP	ND	ND	ND	---	---	ND	ND	ND
DBP	831	ND	ND	---	---	ND	ND	ND
DIBP	ND	ND	ND	---	---	ND	ND	ND
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)▼	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	BL	BL	ND	BL	BL	---	BL
BBP	ND	BL	BL	ND	BL	BL	---	BL
DBP	200	BL	BL	ND	BL	BL	---	BL
DIBP	ND	BL	BL	ND	BL	BL	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Pb	BL	BL	BL	BL	BL	OL▲	OL▲	OL▲
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	ND	BL	BL	BL	BL	BL
PBB	BL	---	---	BL	BL	BL	BL	BL
PBDE	BL	---	---	BL	BL	BL	BL	BL
DEHP	BL	---	---	<600*	BL	BL	BL	BL
BBP	BL	---	---	<600*	BL	BL	BL	BL
DBP	BL	---	---	<600*	BL	BL	BL	BL
DIBP	BL	---	---	<600*	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
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	ND	ND	ND



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Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
PBB	BL	BL	---	ND	---	---	---	---
PBDE	BL	BL	---	ND	---	---	---	---
DEHP	BL	BL	---	ND	---	---	---	---
BBP	BL	BL	---	ND	---	---	---	---
DBP	BL	BL	---	ND	---	---	---	---
DIBP	BL	BL	---	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	ND	BL	BL	BL	BL	BL	BL
PBB	BL	---	---	ND	BL	---	ND	BL
PBDE	BL	---	---	ND	BL	---	ND	BL
DEHP	BL	---	---	ND	BL	---	ND	<600*
BBP	BL	---	---	ND	BL	---	ND	<600*
DBP	BL	---	---	ND	BL	---	ND	<600*
DIBP	BL	---	---	ND	BL	---	ND	<600*
Conclusion	PASS	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	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) * =Considering insufficient sample amount, the Method Detection Limit (MDL) is raised appropriately.
- (7) ▲ = According to the declaration from the client, Lead (Pb) in No.A4 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.A22~No.A24 are 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).

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>

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.



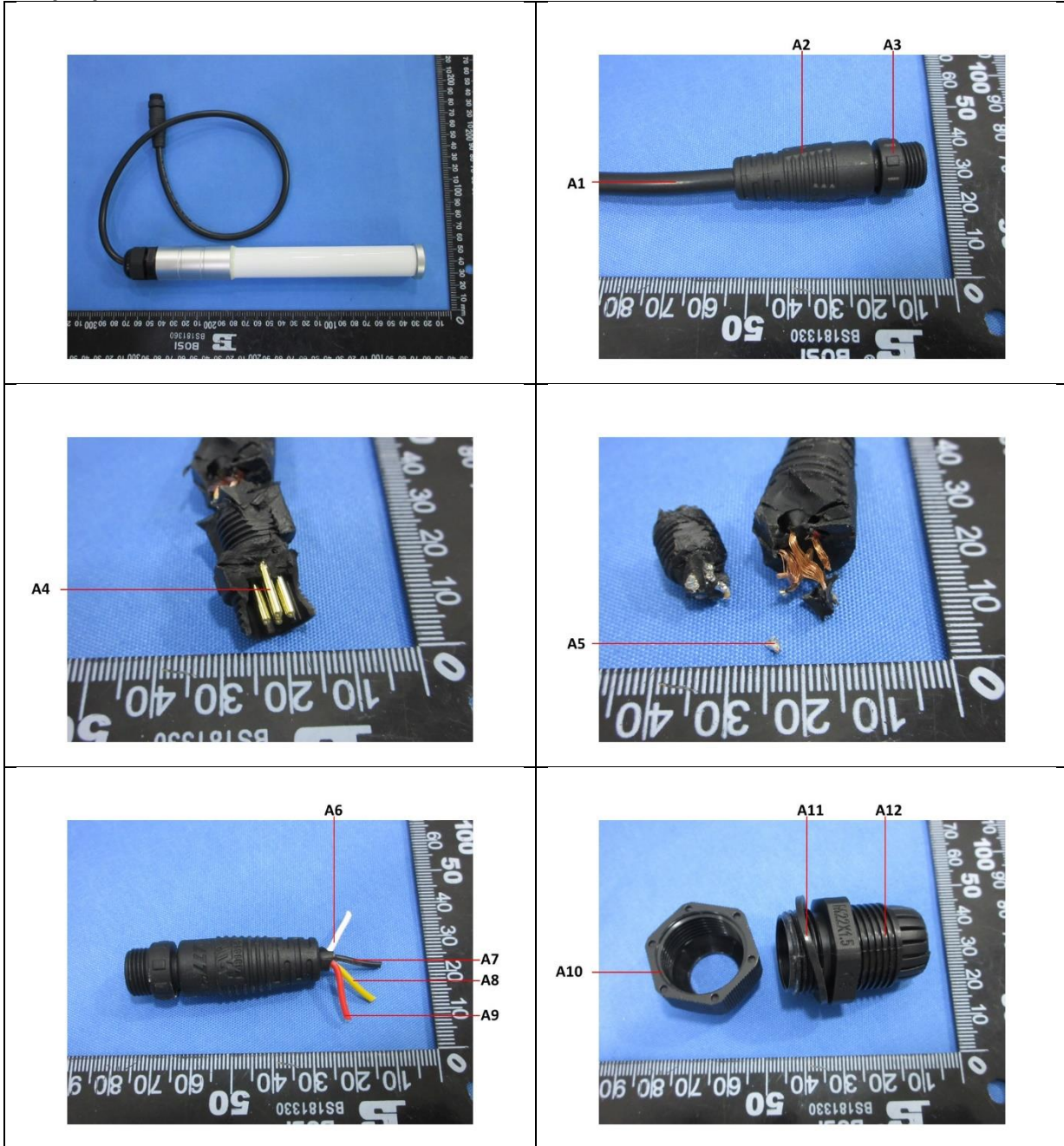
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Sample photos:

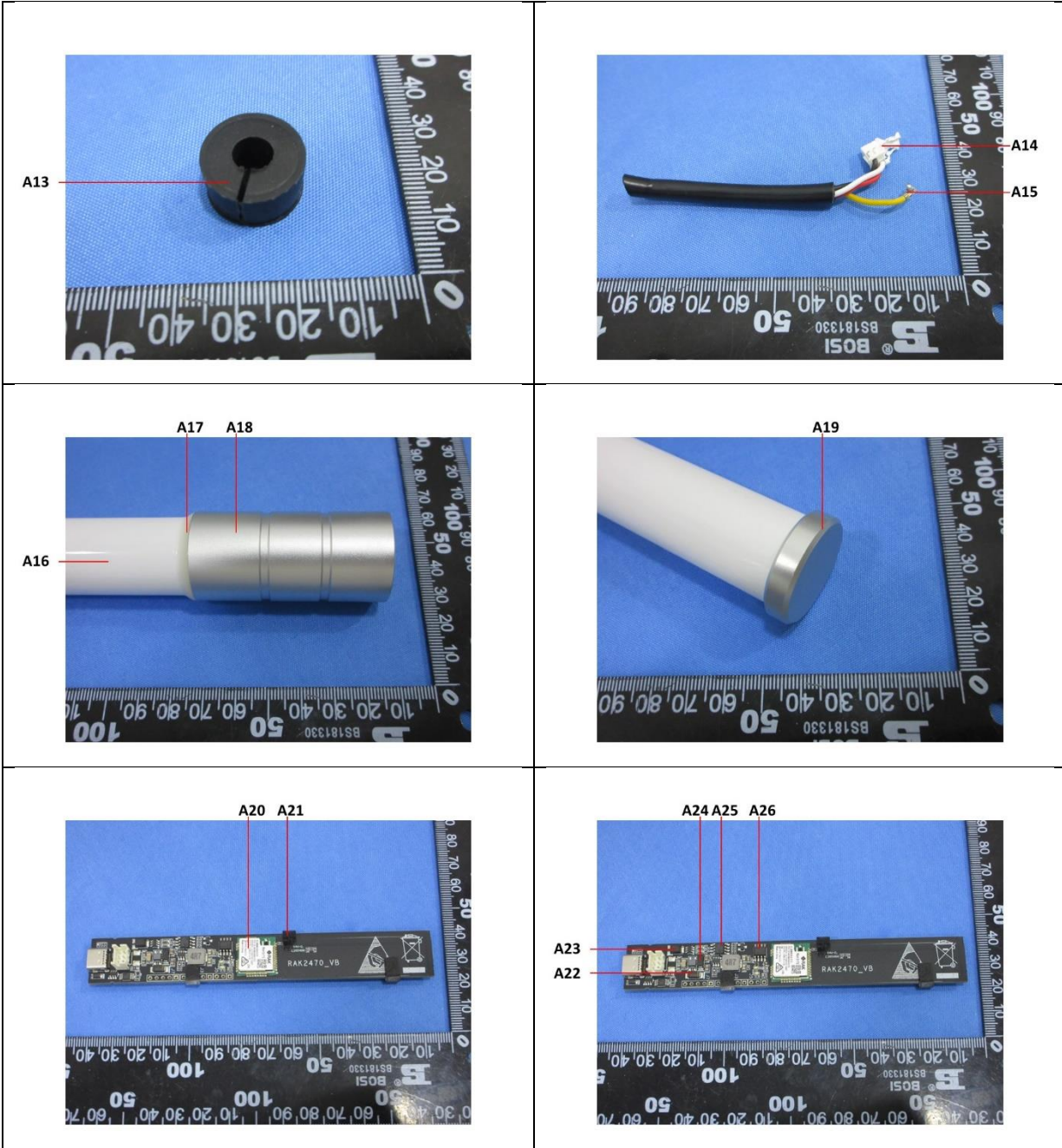


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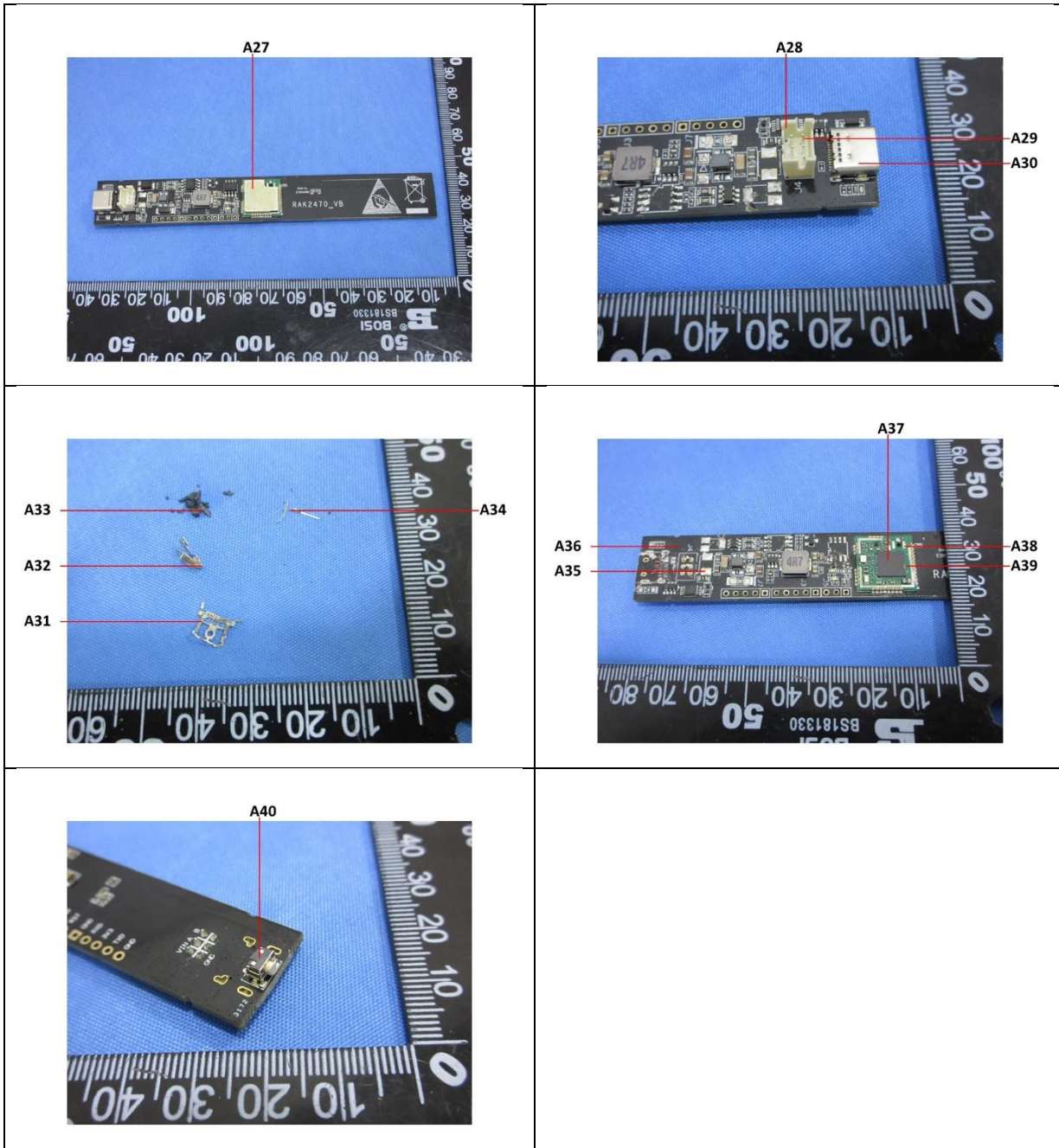


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