

Test Report

No. TCJS.2606163-01EN

Date: 2026/06/12

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Applicant : HANGZHOU KinCony ELECTRONICS CO.,LTD
Address : Room 321, Building 6, Xixi Century Center, Xihu District, Hangzhou City, Zhejiang Province, China
Sample Name : Smart Controller
Sample Model : KC868-H32B Pro, KC868-H32BS, KC868-H32B, KC868-COLB, KC868-D16, KC868-AM, KC868-ASR, KC868-A2, KC868-A2v3, KC868-A4, KC868-A4S, KC868-A6, KC868-A6v3, KC868-A8, KC868-A8v3, KC868-A8S, KC868-A16, KC868-A16v3, KC868-A16S, KC868-A24, KC868-A32, KC868-A32M, KC868-A128, KC868-A256, KC868-AI, KC868-AGv3, KC868-AK, KC868-AIO, KC868-AP, A32 Pro, AG8, S3, Z1, HAV2, AIO, Hybrid, N10, N20, N30, N60, M30, M16v2, M1, MB, F4, F8, F16, F24, F32, B4, B4M, B8, B8M, B16, B16M, B24, B24M, B32M, T16M, T32M, T64M, T128M, TA, TS, TR, G1, ALR, Server-Mini, Server16, Pi5v2, Pi5R8, Pi5M8, Pi5R16, Pi5M16, Pi5R32, Pi5M32, DM4, DM8, DM16, DM32, E8v3, E16v3, E24v3, CO16, CO32, CO64, MT4, MT8
Sample Receive Date : June 08, 2026
Sample Testing Period : June 08, 2026---June 12, 2025
Test Result Summary :

As requested by the applicant, for details refer to attached page(s).

Test Requirement	CONCLUSION(S)
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, RoHS Directive 2011/65/EU and its amendment Directive (EU) 2015/863.	Please refer to next page(s).

* Applicant, address, sample name and model, country of origin and export information have been provided by the customer. ZTS is not responsible for its authenticity.

For and on behalf of
Shanghai Zhuojian Testing Technology Co., Ltd

Authorized Signature _____



Approved Signatory-ZTS/SHO

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A. Pb, Cd, Cr(VI), Hg, PBBs&PBDEs**Test Method:**

1. Disassembly, disjointment and mechanical sample preparation
—Ref. to IEC 62321-2: 2013, Disassembly, disjointment and mechanical sample preparation.
2. With reference to IEC 62321-1: 2013, tests were performed for the samples indicated by the photos in this report.
 - (1) Screening – Lead, mercury, cadmium, total chromium and total bromine
—Ref. to IEC 62321-3-1: 2013, Screening for Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry.
 - (2) Wet chemical test method
 - a. Total Lead, Cadmium, Chromium and Mercury content
—Ref. to IEC 62321-4: 2013+AMD1:2017, determination of Mercury in polymers, metals and electronics by ICP-OES.
—Ref. to IEC 62321-5: 2013, determination of Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by ICP-OES.
 - b. Chromium (VI) content
—For Colourless and coloured corrosion-protected coatings on metals, Ref. to IEC 62321-7-1: 2015, determination of presence of hexavalent chromium (Cr(VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method.
—For polymers and electronics, Ref. to IEC 62321-7-2: 2017, determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method.
 - c. PBBs, PBDEs
—Ref. to IEC 62321-6: 2015, determination of polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography -mass spectrometry (GC-MS).

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Test result(s):

Part No.	Part Description	Results of EDXRF					Chemical confirmation results (mg/kg)	Conclusion
		Pb	Cd	Hg	Cr	Br		
1	Black coating 1	BL	BL	BL	BL	---	CrVI: Negative	Pass
2	Green plastic 1	BL	BL	BL	BL	---	CrVI: Negative	Pass
3	Silver screw 1	33 (BL)	BL	BL	IN	---	---	Pass
4	Transparent plastic	BL	BL	BL	BL	---	CrVI: Negative	Pass
5	Silver metal 1	31 (BL)	BL	BL	IN	---	CrVI: Negative	Pass
6	Black PCB 1	BL	BL	BL	BL	---	---	Pass
7	Silver metal 2	BL	BL	BL	BL	---	---	Pass
8	Green plastic 2	BL	BL	BL	IN	---	CrVI: Negative	Pass
9	Bronze pillar 1	27881	BL	BL	BL	---	CrVI: Negative	Pass
10	Black PCB 2	BL	BL	BL	BL	BL	---	Pass
11	White plastic 1	BL	BL	BL	BL	BL	---	Pass
12	Red plastic	33 (BL)	BL	BL	BL	BL	---	Pass
13	Black coating 2	35 (BL)	BL	BL	BL	BL	---	Pass
14	Black plastic 1	BL	BL	BL	BL	BL	---	Pass
15	Black plastic 2	BL	BL	BL	BL	BL	---	Pass
16	Bronze pillar 2	31553	BL	BL	BL	BL	---	Pass
17	Silver screw 2	BL	BL	BL	BL	BL	---	Pass
18	White plastic 2	BL	BL	BL	BL	BL	---	Pass
19	Black screw	BL	BL	BL	BL	BL	---	Pass

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Remark:

(^1) “---”= Not Applicable;

(^2) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr(VI).

(b) The XRF screening test for RoHS elements-The reading may be different to the actual content in the sample be of non-uniformity composition.

(c) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Pb, Cd, Hg), UV-VIS for Cr(VI) and GC/MSD (for PBBs/PBDEs) is recommended to be performed if the concentration exceeds the below warning value according to IEC 62321-3-1: 2013.

Attached table 1, XRF screening limits in mg/kg for regulated elements in various matrices:

Element	Polymer Materials	Metallic Materials	Electronics
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (250+3\sigma) \leq OL$
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	$BL \leq (300-3\sigma) < X$	N.A.	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Note: ① BL “below limit” = the result less than the limit.

② OL “over limit” = the result greater than the limit.

③ IN = inconclusive, the region where need further chemical testing by ICP-OES (for Pb、Cd、Hg), UV-VIS (for Cr(VI)) and GC/MSD (for PBBs, PBDEs).

④ 3σ = Repeability of the analyser at the action level.

⑤ LOD = Limit of detection.

(^3) (a) mg/kg=ppm=0.0001%;

(b) N.D. = Not detected (lower than RL);

(c) Reporting Limit (RL) and Limit of Directive 2011/65/EU.

Parameter	Unit	Limit	Reporting Limit (RL)
Lead (Pb)	mg/kg	1000	10
Cadmium (Cd)	mg/kg	100	10
Mercury (Hg)	mg/kg	1000	10
Chromium VI (Cr VI)	mg/kg	1000	R1
Group PBBs	mg/kg	1000	R2
Group PBDEs	mg/kg	1000	R2

R1: Cr(VI) for metal sample, the reporting limit (RL)= Method Detection Limit (MDL)=0.10 ug/cm².

The reporting limit (RL) of Cr(VI) for polymers and electronics is 10mg/kg.

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R2: The reporting limit (RL) for single compound of PBBs & PBDEs is 50mg/kg.

(d) According to IEC 62321-7-1: 2015, result on Cr(VI) for metal sample is shown as Negative, Inconclusive or Positive: Negative = Absence of Cr(VI), Inconclusive = Maybe exist Cr(VI), Positive = Presence of Cr(VI).

Colorimetric result (Cr(VI) concentration)	Qualitative result
The sample solution is < the 0.10 ug/cm ² equivalent comparison standard solution	The sample is negative for Cr(VI)–The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
The sample solution is ≥ the 0.10 ug/cm ² and ≤ the 0.13 ug/cm ² equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination. Recommendation: if addition samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trials for the final determination.
The sample solution is > the 0.13 ug/cm ² equivalent comparison standard solution	The sample is positive for Cr(VI)–The Cr(VI) concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI)

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B. Phthalates—DBP, BBP, DEHP & DIBP**Test Method:** Ref. to IEC 62321-8: 2017

Determination of Phthalates in polymers by Gas Chromatography-Mass Spectrometry (GC-MS)

Test result:

Test item	DBP	BBP	DEHP	DIBP
Maximum Permissible Limit (mg/kg)	1000	1000	1000	1000

Material No.	Test item (mg/kg)				Conclusion
	DBP	BBP	DEHP	DIBP	
2	N.D.	N.D.	N.D.	N.D.	Pass
4	N.D.	N.D.	N.D.	N.D.	Pass
8	N.D.	N.D.	N.D.	N.D.	Pass
11	N.D.	N.D.	N.D.	N.D.	Pass
12	N.D.	N.D.	504	N.D.	Pass
14	N.D.	N.D.	N.D.	N.D.	Pass
15	N.D.	N.D.	N.D.	N.D.	Pass
18	N.D.	N.D.	N.D.	N.D.	Pass

Remark: 1. Reporting Limit (RL) for BBP, DBP, DEHP, DIBP=50mg/kg.
2. N.D. = Not Detected (<RL).

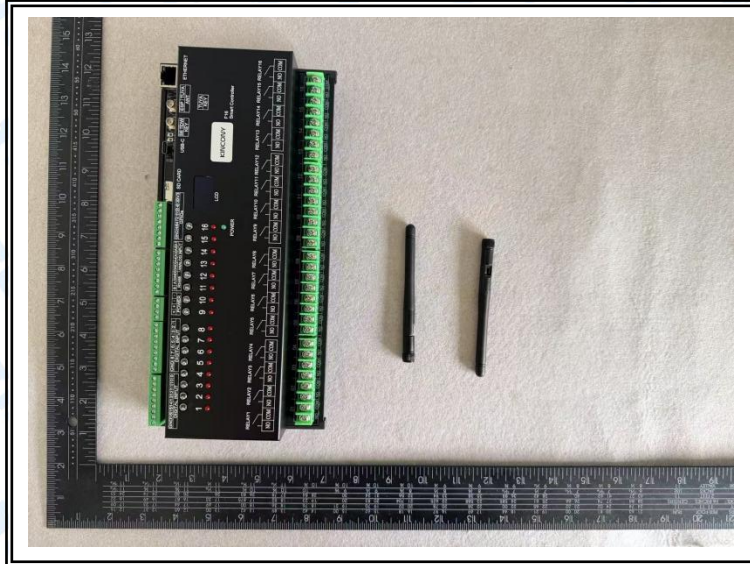
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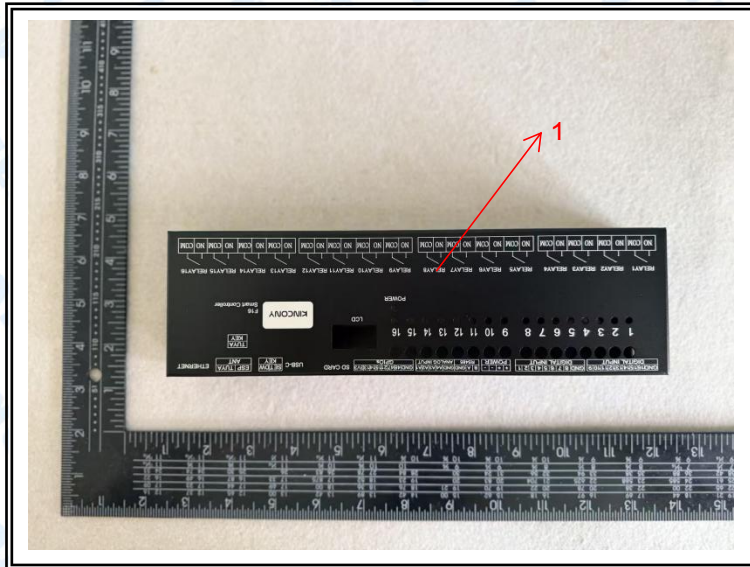
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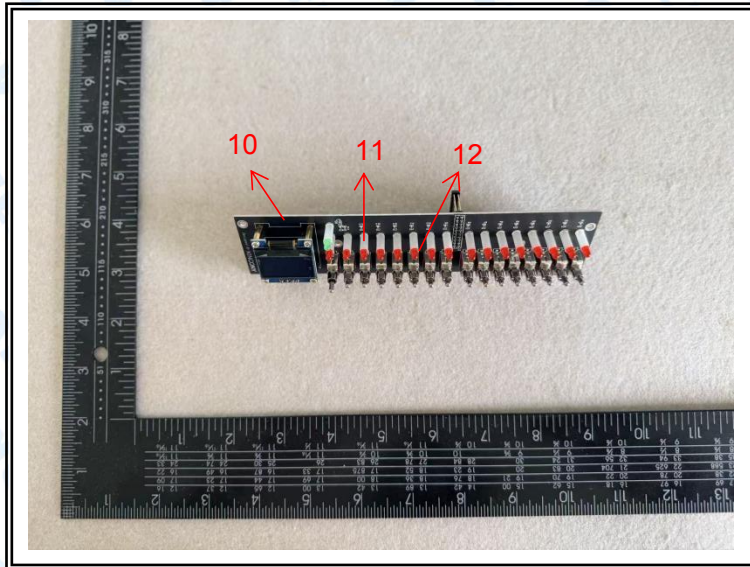
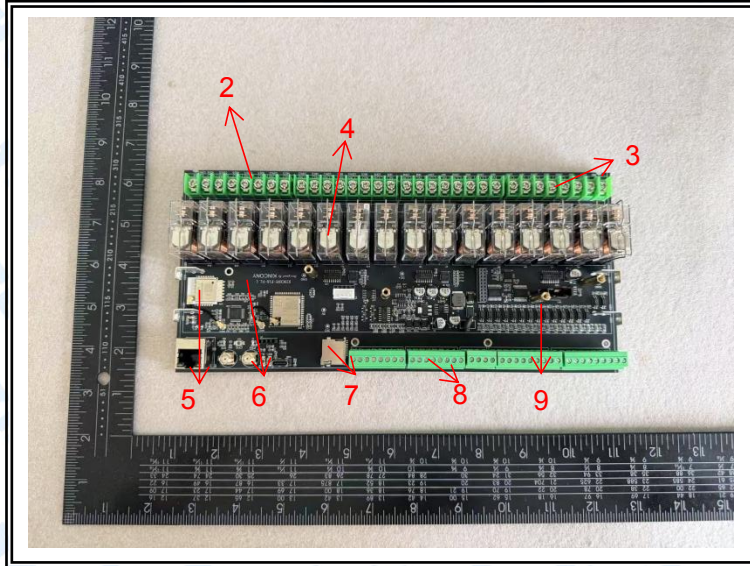
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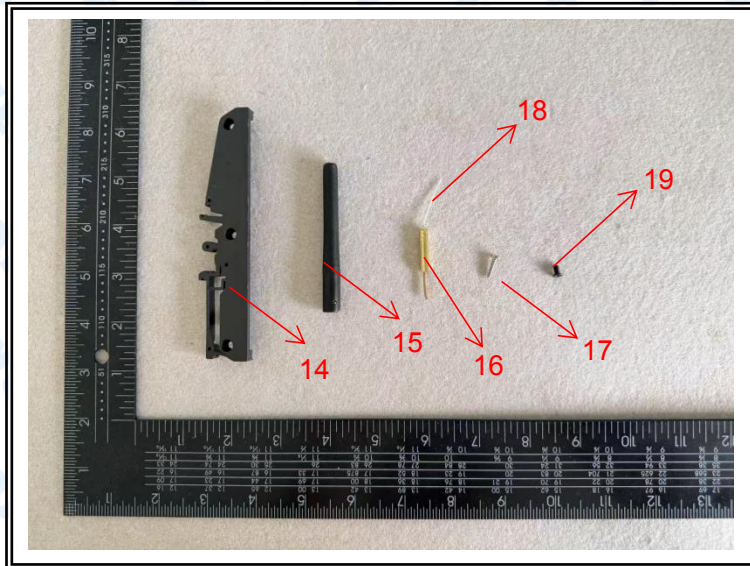
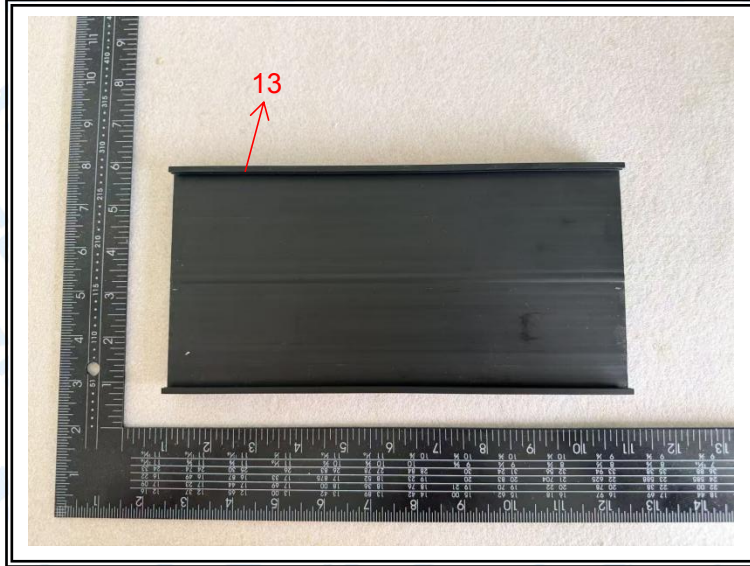
Sample Name : Smart Controller



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