

Verification Report

No. CANEC2223256201

Date: 17 Nov 2022

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Client Name : ZHEJIANG CHONG BO SCIENCE & TECHNOLOGY CO.,LTD

Client Address : No. 620, Jiulong North Road, Dongcheng Street, Yongkang City Zhejiang Province

Sample Name : COUNT

Tested Basic Model No. CB-JP034

(P.O.No) :

Client Ref. Info. : See Note (6)

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

SGS Job No. : 23109153 - XM

Date of Sample Received : 31 Oct 2022

Verification Period : 31 Oct 2022 - 16 Nov 2022

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 Co., Ltd. Guangzhou Branch

Violet Shi

Violet, Shi
Approved Signatory

scan to see the report



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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center Chemical Laboratory.

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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, ISO 17075-1:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Verification Part Description :

SN ID	Sample No	SGS Sample ID	Description
SN1	A1	CAN22-232562.001	White plastic shell
SN2	A2	CAN22-232562.002	Red plastic button
SN3	A3	CAN22-232562.003	Black plastic shell with white printing
SN4	A4	CAN22-232562.004	White plastic cover
SN5	A5	CAN22-232562.005	Silvery metal spring
SN6	A6	CAN22-232562.006	Silvery metal sheet
SN7	A7	CAN22-232562.007	Silvery metal wire (solder)



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SN ID	Sample No	SGS Sample ID	Description
SN8	A8	CAN22-232562.008	Black plastic (wire insulation)
SN9	A9	CAN22-232562.009	Silvery metal screw
SN10	A10	CAN22-232562.010	Black plastic part
SN11	A11	CAN22-232562.011	White plastic sheet
SN12	A12	CAN22-232562.012	Copper-colored metal wire
SN13	A13	CAN22-232562.013	Silvery metal sheet
SN14	A14	CAN22-232562.014	Silvery metal sheet
SN15	A15	CAN22-232562.015	Silvery metal sheet
SN16	A16	CAN22-232562.016	Green "PCB"
SN17	A17	CAN22-232562.017	Black body
SN18	A18	CAN22-232562.018	Silvery metal solder
SN19	A19	CAN22-232562.019	Grey rubber sheet
SN20	A20	CAN22-232562.020	Grey translucent adhesive plastic sheet
SN21	A21	CAN22-232562.021	Transparent glass sheet with liquid
SN22	A22	CAN22-232562.022	Grey translucent adhesive plastic sheet
SN23	A23	CAN22-232562.023	Grey rubber button
SN24	A24	CAN22-232562.024	Black material sheet



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Verification Results :

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	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	---	---	---	BL
PBDEs	BL	BL	BL	BL	---	---	---	BL
DBP	BL	BL	BL	BL	---	---	---	ND
BBP	BL	BL	BL	BL	---	---	---	ND
DEHP	BL	BL	BL	BL	---	---	---	ND
DIBP	BL	BL	BL	BL	---	---	---	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
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
PBDEs	---	BL	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)	A17	A18	A19	A20	A21	A22	A23	A24
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	BL	BL	BL



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



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	$BL \leq 600 < X$
Benzybutyl 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.



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(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 Cr(VI) if the Cr(VI) concentration is greater than 0.13µg/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 0.10µg/cm²).

The coating is considered a non-Cr(VI) based coating

c. The result between 0.10µg/cm² and 0.13µg/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.

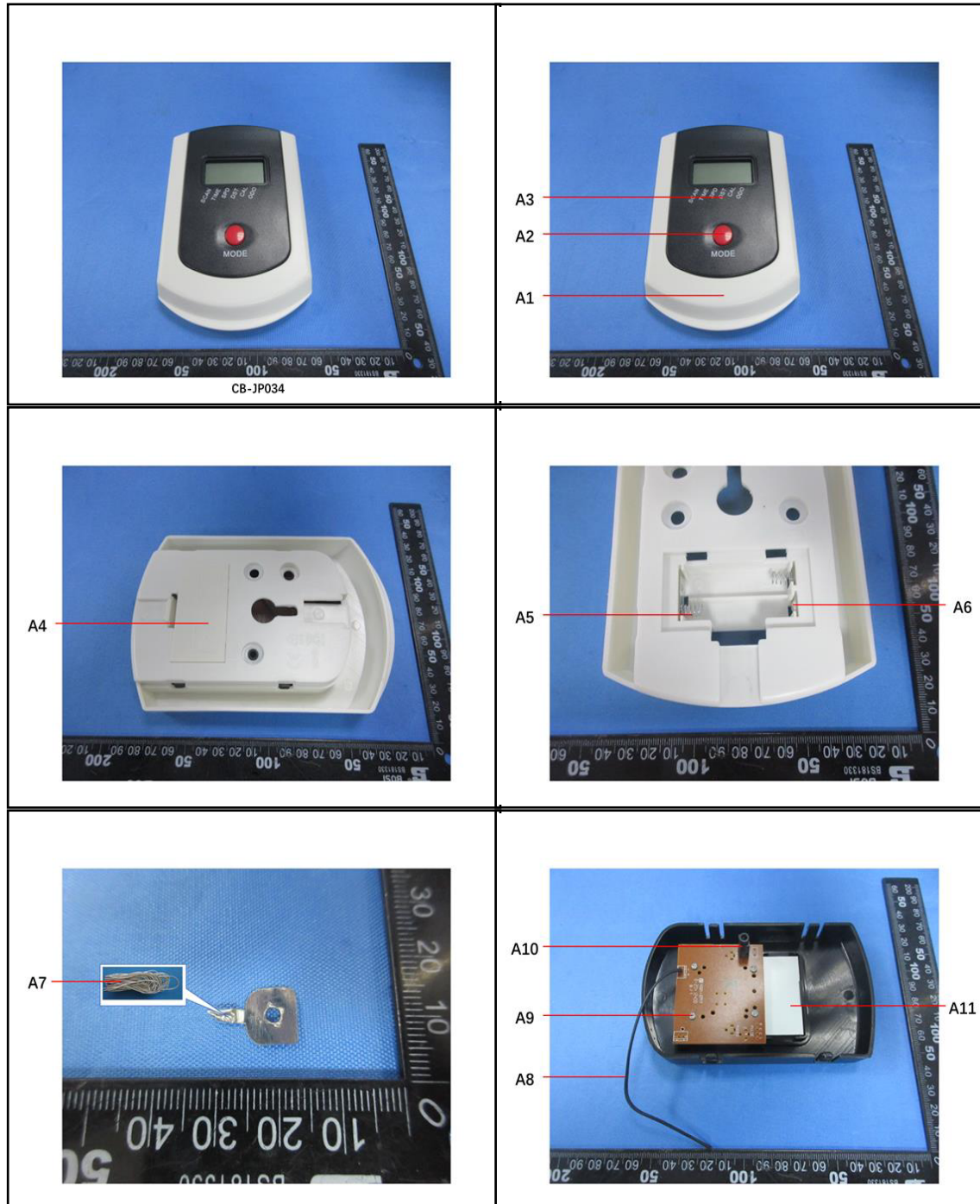


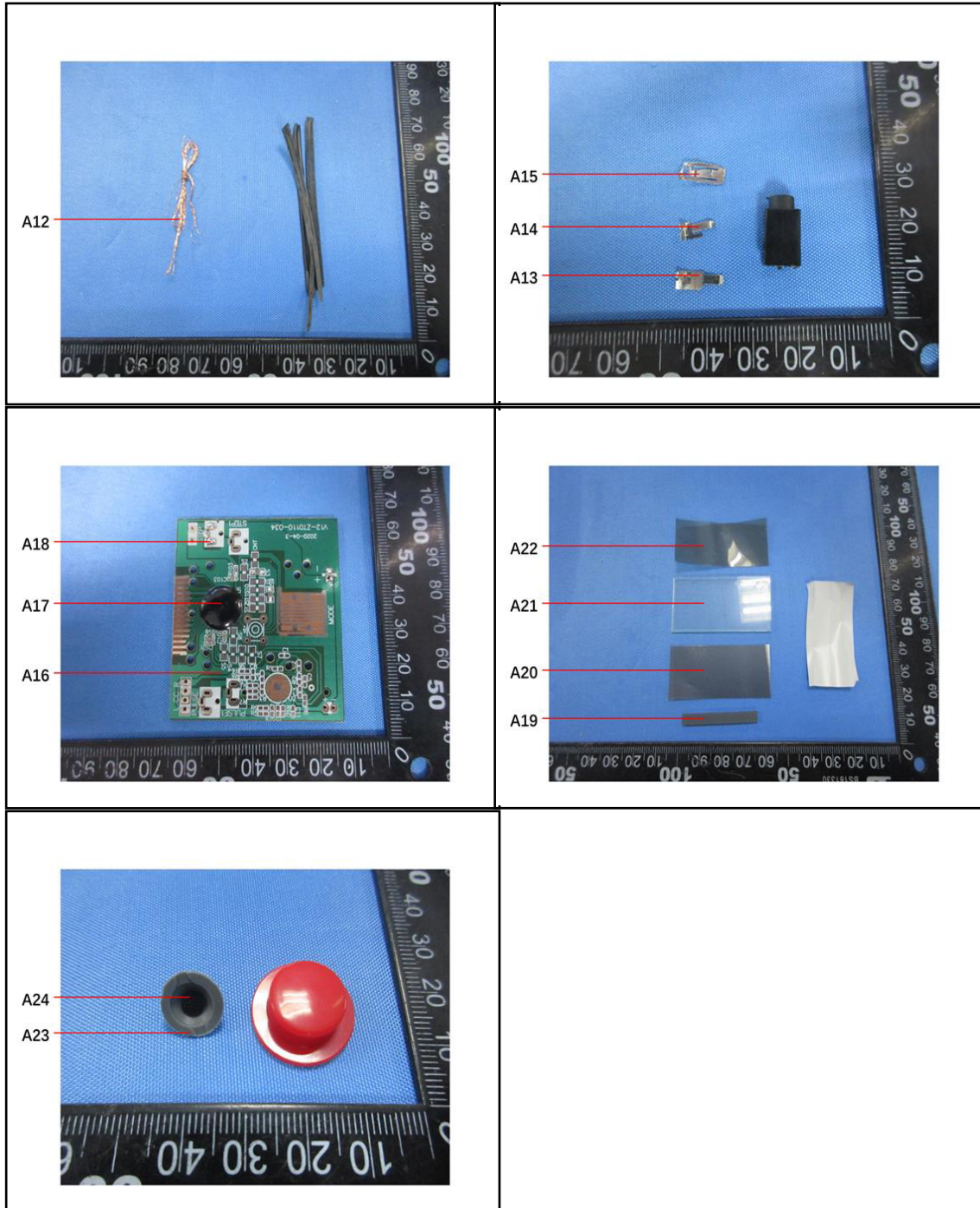
(6)

CB-JP001 CB-JP002 CB-JP003 CB-JP004 CB-JP006 CB-JP007 CB-JP008 CB-JP011 CB-JP012 CB-JP013
CB-JP015 CB-JP016 CB-JP017 CB-JP018 CB-JP020 CB-JP021 CB-JP023 CB-JP025 CB-JP026 CB-JP027
CB-JP028 CB-JP030 CB-JP032 CB-JP033 CB-JP034 CB-JP035 CB-JP036 CB-JP038 CB-JP039 CB-JP040
CB-JP041 CB-JP042 CB-JP050 CB-JP052 CB-JP056 CB-JP057 CB-JP059 CB-JP060 CB-JP065 CB-JP066
CB-JP067 CB-HC8002 CB-8008 CB-8009 CB-8010 CB-8011 CB-8015 CB-8016 CB-8017 CB-8018 CB-8019
CB-8020 CB-8022 CB-2001 CB-2003 CB-2005 CB-TP001 CB-TP003 CB-TP004 CB-TP005 CB-TP007
CB-TP008 CB-TP009 CB-TP010 CB-TP011 CB-TP012 CB-TP013 CB-TP015 CB-TP017 CB-TP019 CB-TP022
CB-TP025 CB-TP026 CB-TP027 CB-TP028 CB-TP029 CB-TP030 CB-TP031 CB-TP032 CB-TP035 CB-8001
CB-JP063



Sample photo:





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*** End of Report ***

