

TEST REPORT

Applicant: KABOOM ASIA LIMITED
18B 235 WING LOK ST TRADE CTR
235 WING LOK ST
SHEUNG WAN
HK



Number: HKGH0322986601

Date: May 15, 2025

Attn: DICK TANG/SAM YEUNG

Sample and Information provided by customer :
Item Name : **KONOYE 041, KINCHIKA 043**
Item No. : **KAB-KOO-MIX 0003**
Quantity : 6 sets
Labelled Age Group : 8+
Packaging Provided : Yes

For and on behalf of :
Intertek Testing Services HK Ltd.



Dorothy M.Y. Lau
Vice President



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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) EN 71-1 : 2014 + A1 : 2018 - Mechanical and physical properties	Pass
(2) EN 71-2:2020 - Flammability Test	Pass
(3) EN 71-3 : 2019 + A1 : 2021 - Migration of certain elements	Pass
(4) EN 71-3 : 2019 + A2 : 2024 - Migration of certain elements	Pass
(5) BS EN 71-1:2014 + A1:2018 / EN 71-1:2014 + A1:2018 - Mechanical and physical properties	Pass
(6) BS EN 71-2:2020 / EN 71-2:2020 - Flammability Test	Pass
(7) BS EN 71-3 : 2019 + A1 : 2021 - Migration of certain elements	Pass
(8) BS EN 71-3 : 2019 + A2 : 2024 - Migration of certain elements	Pass
(9) Regulation (EC) No. 1907/2006 on REACH Annex XVII as amended by Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217 - Cadmium content requirement	Pass
(10) Cadmium Content Requirement in Annex XVII Entry 23 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) - Cadmium content requirement	Pass
(11) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52, amendment no. 552/2009 & 2018/2005 - Phthalates content	Pass



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<u>Requirement</u>	<u>Result</u>
(12) REACH Regulation (EC) no. 1907/2006, Annex XVII, Item 51 & 52 & amendment no. 552/2009 & 2018/2005 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended - Phthalates content	Pass
(13) REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 Annex XVII Item 50 - Polycyclic aromatic hydrocarbons content	Pass
(14) REACH Regulation (EC) no. 1907/2006 & amendment no. 1272/2013, Annex XVII, Item 50 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended - Polycyclic aromatic hydrocarbons content	Pass
(15) 94/62/EC and its amendment (packaging and packaging waste) - Toxic elements test	Pass
Regulation (EU) 2025/40 (packaging and packaging waste) - Toxic elements test	Pass
(16) Heavy Metals Content Requirement in The Packaging (Essential Requirements) Regulations 2015 (S.I. 2015 No. 1640) as amended - Toxic elements test	Pass
(17) EN IEC 62115 : 2020+A11:2020 Safety of electric toys	Pass (Subjected to remark enclosed)
(18) European Standard EN IEC 62115: 2020 + A11: 2020 on Safety of electric toys, Annex E 19.E.2	Pass
(19) RoHS Directive (2011/65/EU) - Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment	Pass
(20) RoHS Directive (2011/65/EU) and amendment Commission Delegated Directive (EU) 2015/863 - Phthalates content	Pass
(21) Restricted Substances Content Requirement in Regulation 3(1) of the The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012 No. 3032) as amended - Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment	Pass



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<u>Requirement</u>	<u>Result</u>
(22) Restricted Substances Content Requirement in Regulation 3(1) of The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012 No. 3032) as amended - Phthalates content	Pass

Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.qrd.by/decision-rule-doc..>

If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.



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(1) Mechanical and Physical Test

Test Standard : Standard on Safety of toys EN 71-1:2014 + A1:2018

Age group for testing : For Ages Over 8 Years

Clause	Testing Items
8.4.2.6	Perpendicular tension test for rotors and propellers (6 N)
8.4.2.7	Tension test for rotors and propellers (90N)
8.5	Drop Test (850 mm x 5)
8.7	Impact test (1 kg)

Clause	Requirement	Assessment
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	P
4.8	Points and Metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	P
4.11	Mouth actuated toys and other toys intended to be put into mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	P
4.21	Toys containing non -electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27	Flying toys	P
5	Toys intended for children under 36 months	
5.1	General requirements for toys intended for children under 36 months	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA



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Clause	Requirement	Assessment
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling (7.24)	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile Toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic / electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	P
7.26	Improvised projectiles	NA

Abbreviation : P = Pass NA = Not Applicable



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Below are additional information according to the Toy Safety Directive 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements and not accredited:

Marking

The manufacturer's and importer's name, registered trade name or registered trademark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking. After checking, it was found that

	Toy	Packaging
Manufacturer's name	Absent	Present
Manufacturer's address	Absent	Present
EU Importer's name	Absent	Present
EU Importer's address	Absent	Present
Product identification code	Absent	Present
CE-marking	Present	Present

Date sample received : Mar 07, 2025

Test Period : Mar 07, 2025 to Mar 14, 2025



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(2) Flammability Test

Test Standard : European Standard on Safety of Toys EN 71-2:2020

Clause	Requirement	Assessment
4.1	General requirements	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Mar 07, 2025

Test Period : Mar 07, 2025 to Mar 14, 2025



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(3) 19 Toxic Element Migration Test

Test Method : EN 71-3 : 2019 + A1 : 2021. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

Element	Result (mg/kg)			Limit (mg/kg)
	(3)	(4)	(5)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	<5.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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Element	Result (mg/kg)			Limit (mg/kg)
	(6)	(7)	(8)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
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Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	<5.0	12
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Element	Result (mg/kg)		Limit (mg/kg)
	(9)	(10)	
Soluble Aluminium (Al)	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	560
Soluble Arsenic (As)	<10	<10	47
Soluble Barium (Ba)	<10	<10	18750
Soluble Boron (B)	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	130
Soluble Copper (Cu)	<10	<10	7700
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Soluble Manganese (Mn)	<10	<10	15000
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Soluble Tin (Sn)	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	12
Soluble Zinc (Zn)	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI).

@ : Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.



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Tested Components:

- (1) @ White coating on plastic (remote control).
- (2) @ Black coating on plastic (plane).
- (3) Black plastic (remote control case).
- (4) Transparent red plastic (LED).
- (5) Black foam with silver color/ blue/ yellow printings (plane).
- (6) Blue plastic (battery case, motor holder).
- (7) Light blue plastic (blade).
- (8) Yellow plastic (battery case, motor holder).
- (9) Light yellow plastic (blade).
- (10) Transparent black plastic (USB adaptor case).

Date sample received : Mar 07, 2025

Test Period : Mar 07, 2025 to Mar 13, 2025



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(4) 19 Toxic Element Migration Test

Test Method : EN 71-3 : 2019 + A2 : 2024. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

Element	Result (mg/kg)			Limit (mg/kg)
	(3)	(4)	(5)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
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Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
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Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
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Element	Result (mg/kg)			Limit (mg/kg)
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Element	Result (mg/kg)		Limit (mg/kg)
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Soluble Manganese (Mn)	<10	<10	15000
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Soluble Zinc (Zn)	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI).

@ : Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.



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Tested Components:

- (1) @ White coating on plastic (remote control).
- (2) @ Black coating on plastic (plane).
- (3) Black plastic (remote control case).
- (4) Transparent red plastic (LED).
- (5) Black foam with silver color/ blue/ yellow printings (plane).
- (6) Blue plastic (battery case, motor holder).
- (7) Light blue plastic (blade).
- (8) Yellow plastic (battery case, motor holder).
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- (10) Transparent black plastic (USB adaptor case).

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(5) Mechanical and Physical Test

Test Standard : Standard on Safety of toys BS EN 71-1:2014 + A1:2018 / EN 71-1:2014 + A1:2018

Age group for testing : For Ages Over 8 Years

The submitted samples were undergone the following abuse tests:	
<u>Clause</u>	<u>Testing Items</u>
8.4.2.6	Perpendicular tension test for rotors and propellers (6 N)
8.5	Drop Test (850 mm x 5)
8.6	Tip over test (Three times)

<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	P
4.8	Points and Metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	P
4.11	Mouth actuated toys and other toys intended to be put into mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	P
4.21	Toys containing non -electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA



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Clause	Requirement	Assessment
4.27	Flying toys	P
5	Toys intended for children under 36 months	
5.1	General requirements for toys intended for children under 36 months	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling (7.24)	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile Toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic / electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but	NA



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Clause	Requirement	Assessment
	under 36 months	
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	P
7.26	Improvised projectiles	NA

Abbreviation : P = Pass NA = Not Applicable

Below is additional information checking according to the UK Toy (Safety) Regulations requirement. The checking is not within accreditation scope.

Marking

The manufacturer's and importer's name, registered trade name or registered trademark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself.

	Toy	Packaging
Name of authorised representative in Great Britain	Absent	Absent
Address of authorised representative in Great Britain	Absent	Absent
Product identification code	Absent	Present

With reference to the guidance of using UKCA marking from 1 January 2021 by the Department for Business, Energy and Industrial Strategy published on 1 September 2020, toys or packagings shall also bear the UKCA marking.

However, as per the official publishment on 14 November 2022, CE marking is continued to be recognised for 2 more years in UK market until 31 December, 2024. After checking, it was found that

	Toy	Packaging
UKCA marking	Absent	Absent



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Below are additional information according to the Toy Safety Directive 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements and not accredited:

Marking

The manufacturer's and importer's name, registered trade name or registered trademark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking. After checking, it was found that

	Toy	Packaging
Manufacturer's name	Absent	Present
Manufacturer's address	Absent	Present
EU Importer's name	Absent	Present
EU Importer's address	Absent	Present
Product identification code	Absent	Present
CE-marking	Present	Present

Date sample received : Mar 07, 2025

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(6) Flammability Test

Test Standard : Standard on Safety of Toys BS EN 71-2:2020 / EN 71-2:2020

Clause	Requirement	Assessment
4.1	General requirements	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Mar 07, 2025

Test Period : Mar 07, 2025 to Mar 14, 2025



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(7) 19 Toxic Element Migration Test

Test Method : BS EN 71-3 : 2019 + A1 : 2021. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(3)	(4)	(5)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	<5.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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	Result (mg/kg)			Limit (mg/kg)
	(6)	(7)	(8)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	<5.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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	Result (mg/kg)		Limit (mg/kg)
	(9)	(10)	
Soluble Aluminium (Al)	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	560
Soluble Arsenic (As)	<10	<10	47
Soluble Barium (Ba)	<10	<10	18750
Soluble Boron (B)	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	130
Soluble Copper (Cu)	<10	<10	7700
Soluble Lead (Pb)	<10	<10	23
Soluble Manganese (Mn)	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	94
Soluble Nickel (Ni)	<10	<10	930
Soluble Selenium (Se)	<10	<10	460
Soluble Strontium (Sr)	<100	<100	56000
Soluble Tin (Sn)	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	12
Soluble Zinc (Zn)	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI).

@ : Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.



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Tested Components:

- (1) @ White coating on plastic (remote control).
- (2) @ Black coating on plastic (plane).
- (3) Black plastic (remote control case).
- (4) Transparent red plastic (LED).
- (5) Black foam with silver color/ blue/ yellow printings (plane).
- (6) Blue plastic (battery case, motor holder).
- (7) Light blue plastic (blade).
- (8) Yellow plastic (battery case, motor holder).
- (9) Light yellow plastic (blade).
- (10) Transparent black plastic (USB adaptor case).

Date sample received : Mar 07, 2025

Test Period : Mar 07, 2025 to Mar 13, 2025



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(8) 19 Toxic Element Migration Test

Test Method : BS EN 71-3 : 2019 + A2 : 2024. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

Element	Result (mg/kg)			Limit (mg/kg)
	(3)	(4)	(5)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	<5.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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Element	Result (mg/kg)			Limit (mg/kg)
	(6)	(7)	(8)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	<5.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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Number : HKGH0322986601

Element	Result (mg/kg)		Limit (mg/kg)
	(9)	(10)	
Soluble Aluminium (Al)	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	560
Soluble Arsenic (As)	<10	<10	47
Soluble Barium (Ba)	<10	<10	18750
Soluble Boron (B)	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	130
Soluble Copper (Cu)	<10	<10	7700
Soluble Lead (Pb)	<10	<10	23
Soluble Manganese (Mn)	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	94
Soluble Nickel (Ni)	<10	<10	930
Soluble Selenium (Se)	<10	<10	460
Soluble Strontium (Sr)	<100	<100	56000
Soluble Tin (Sn)	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	12
Soluble Zinc (Zn)	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI).

@ : Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.



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Tested Components:

- (1) @ White coating on plastic (remote control).
- (2) @ Black coating on plastic (plane).
- (3) Black plastic (remote control case).
- (4) Transparent red plastic (LED).
- (5) Black foam with silver color/ blue/ yellow printings (plane).
- (6) Blue plastic (battery case, motor holder).
- (7) Light blue plastic (blade).
- (8) Yellow plastic (battery case, motor holder).
- (9) Light yellow plastic (blade).
- (10) Transparent black plastic (USB adaptor case).

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(9) Cadmium (Cd) Content

Test Method : In House method TC008.TP. Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2)	ND	0.1
(3/4/5)	ND	0.01
(6/7/8)	ND	0.01
(9/10)	ND	0.01
(11/12/13)	ND	0.01
(14/15/16)	ND	0.01
(17/18/19)	ND	0.01
(20)	ND	0.01
(21)	ND	0.01
(22)	ND	0.01
(23)	ND	0.01
(24)	ND	0.01
(25/26/27)	ND	0.01
(28)	ND	0.01

ND : Not detected (< 0.0005%)

The above limit was quoted according to Regulation (EC) No. 1907/2006 on REACH Annex XVII as amended by Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217

Tested Components:

- (1) White coating on plastic (remote control).
- (2) Black coating on plastic (plane).
- (3) Black plastic (remote control case).
- (4) Transparent red plastic (LED).
- (5) Black foam with silver color/ blue/ yellow printings (plane).
- (6) Blue plastic (battery case, motor holder).
- (7) Light blue plastic (blade).
- (8) Yellow plastic (battery case, motor holder).
- (9) Light yellow plastic (blade).
- (10) Transparent black plastic (USB adaptor case).
- (11) Black plastic (wire covering) (internal).
- (12) Red plastic (wire covering) (internal).
- (13) Transparent plastic (antenna) (internal).
- (14) Green printed brown PCB (PCB) (internal).
- (15) Transparent plastic (LED holder) (internal).
- (16) Black plastic (tactile switch, slide switch) (internal).
- (17) Brown PCB (PCB of slide switch) (internal).
- (18) White plastic (wire covering) (internal).
- (19) Blue plastic (wire covering) (internal).



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- (20) Plastic part of buzzer (internal).
- (21) Plastic part of variable resistor (internal).
- (22) Plastic part of direction switch (internal).
- (23) Plastic part of grey motor (internal).
- (24) Plastic part of white motor (internal).
- (25) Transparent blue plastic (LED) (internal).
- (26) Transparent green plastic (LED) (internal).
- (27) Green PCB (PCB) (internal).
- (28) Snow white plastic (connector) (internal).

Date sample received : Mar 07, 2025

Test Period : Mar 07, 2025 to Mar 13, 2025



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Number : HKGH0322986601

(10) Cadmium (Cd) Content

Test Method : In House method TC008.TP. Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2)	ND	0.1
(3/4/5)	ND	0.01
(6/7/8)	ND	0.01
(9/10)	ND	0.01
(11/12/13)	ND	0.01
(14/15/16)	ND	0.01
(17/18/19)	ND	0.01
(20)	ND	0.01
(21)	ND	0.01
(22)	ND	0.01
(23)	ND	0.01
(24)	ND	0.01
(25/26/27)	ND	0.01
(28)	ND	0.01

ND : Not detected (< 0.0005%)

The above limit was quoted according to Annex XVII Entry 23 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758)

Tested Components:

- (1) White coating on plastic (remote control).
- (2) Black coating on plastic (plane).
- (3) Black plastic (remote control case).
- (4) Transparent red plastic (LED).
- (5) Black foam with silver color/ blue/ yellow printings (plane).
- (6) Blue plastic (battery case, motor holder).
- (7) Light blue plastic (blade).
- (8) Yellow plastic (battery case, motor holder).
- (9) Light yellow plastic (blade).
- (10) Transparent black plastic (USB adaptor case).
- (11) Black plastic (wire covering) (internal).
- (12) Red plastic (wire covering) (internal).
- (13) Transparent plastic (antenna) (internal).
- (14) Green printed brown PCB (PCB) (internal).
- (15) Transparent plastic (LED holder) (internal).
- (16) Black plastic (tactile switch, slide switch) (internal).
- (17) Brown PCB (PCB of slide switch) (internal).
- (18) White plastic (wire covering) (internal).



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- (19) Blue plastic (wire covering) (internal).
- (20) Plastic part of buzzer (internal).
- (21) Plastic part of variable resistor (internal).
- (22) Plastic part of direction switch (internal).
- (23) Plastic part of grey motor (internal).
- (24) Plastic part of white motor (internal).
- (25) Transparent blue plastic (LED) (internal).
- (26) Transparent green plastic (LED) (internal).
- (27) Green PCB (PCB) (internal).
- (28) Snow white plastic (connector) (internal).

Date sample received : Mar 07, 2025

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(11) Phthalate Content Test

Test Method : ISO 8124-6 : 2023 method A with internal standard calibration, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Seven Phthalates content:

Compound	Result (% w/w)			Limit (% w/w)
	(1)	(2/3/4)	(5/6/7)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	<0.0100	0.1
Diisononyl phthalate (DINP)	<0.0100	<0.0100	<0.0100	--
Di-n-octyl phthalate (DnOP)	<0.0100	<0.0100	<0.0100	--
Diisodecyl phthalate (DIDP)	<0.0100	<0.0100	<0.0100	--
Sum of DINP, DnOP & DIDP	<0.0100	<0.0100	<0.0100	0.1

Compound	Result (% w/w)	Limit (% w/w)
	(8/9)	
Dibutyl phthalate (DBP)	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	0.1
Diisononyl phthalate (DINP)	<0.0100	--
Di-n-octyl phthalate (DnOP)	<0.0100	--
Diisodecyl phthalate (DIDP)	<0.0100	--
Sum of DINP, DnOP & DIDP	<0.0100	0.1

Four Phthalates content:

Compound	Result (% w/w)			Limit (% w/w)
	(10/11/12)	(13/14/15)	(16/17/18)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	<0.0100	0.1



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Compound	Result (% w/w)			Limit (% w/w)
	(19)	(20)	(21)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	<0.0100	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(22)	(23)	(24/25/26)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	<0.0100	0.1

Compound	Result (% w/w)	Limit (% w/w)
	(27)	
Dibutyl phthalate (DBP)	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	0.1

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 taking into account the (EU) regulation 2018/2005 modifying entry 51 for which the DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination with the first three phthalates which already exist in the entry 51, in a concentration equal to or greater than 0,1 % by weight of the plasticised material.

Tested Components:

- (1) White/ black coatings on plastic (remote control, plane).
- (2) Black plastic (remote control case).
- (3) Transparent red plastic (LED).
- (4) Black foam with silver color/ blue/ yellow printings (plane).
- (5) Blue plastic (battery case, motor holder).
- (6) Light blue plastic (blade).
- (7) Yellow plastic (battery case, motor holder).
- (8) Light yellow plastic (blade).
- (9) Transparent black plastic (USB adaptor case).
- (10) Black plastic (wire covering) (internal).
- (11) Red plastic (wire covering) (internal).
- (12) Transparent plastic (antenna) (internal).
- (13) Green printed brown PCB (PCB) (internal).
- (14) Transparent plastic (LED holder) (internal).



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- (15) Black plastic (tactile switch, slide switch) (internal).
- (16) Brown PCB (PCB of slide switch) (internal).
- (17) White plastic (wire covering) (internal).
- (18) Blue plastic (wire covering) (internal).
- (19) Plastic part of buzzer (internal).
- (20) Plastic part of variable resistor (internal).
- (21) Plastic part of direction switch (internal).
- (22) Plastic part of grey motor (internal).
- (23) Plastic part of white motor (internal).
- (24) Transparent blue plastic (LED) (internal).
- (25) Transparent green plastic (LED) (internal).
- (26) Green PCB (PCB) (internal).
- (27) Snow white plastic (connector) (internal).

Date sample received : Mar 07, 2025

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(12) Phthalate Content Test

Test Method : ISO 8124-6 : 2023 method A with internal standard calibration, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Seven Phthalates content:

Compound	Result (% w/w)			Limit (% w/w)
	(1)	(2/3/4)	(5/6/7)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	<0.0100	0.1
Diisononyl phthalate (DINP)	<0.0100	<0.0100	<0.0100	--
Di-n-octyl phthalate (DnOP)	<0.0100	<0.0100	<0.0100	--
Diisodecyl phthalate (DIDP)	<0.0100	<0.0100	<0.0100	--
Sum of DINP, DnOP & DIDP	<0.0100	<0.0100	<0.0100	0.1

Compound	Result (% w/w)	Limit (% w/w)
	(8/9)	
Dibutyl phthalate (DBP)	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	0.1
Diisononyl phthalate (DINP)	<0.0100	--
Di-n-octyl phthalate (DnOP)	<0.0100	--
Diisodecyl phthalate (DIDP)	<0.0100	--
Sum of DINP, DnOP & DIDP	<0.0100	0.1

Four Phthalates content:

Compound	Result (% w/w)			Limit (% w/w)
	(10/11/12)	(13/14/15)	(16/17/18)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	<0.0100	0.1



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Compound	Result (% w/w)			Limit (% w/w)
	(19)	(20)	(21)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	<0.0100	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(22)	(23)	(24/25/26)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	<0.0100	0.1

Compound	Result (% w/w)	Limit (% w/w)
	(27)	
Dibutyl phthalate (DBP)	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	0.1

The above limit was quoted according to REACH Regulation (EC) no. 1907/2006, Annex XVII, Item 51 & 52 & amendment no. 552/2009 & 2018/2005 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended.

Tested Components:

- (1) White/ black coatings on plastic (remote control, plane).
- (2) Black plastic (remote control case).
- (3) Transparent red plastic (LED).
- (4) Black foam with silver color/ blue/ yellow printings (plane).
- (5) Blue plastic (battery case, motor holder).
- (6) Light blue plastic (blade).
- (7) Yellow plastic (battery case, motor holder).
- (8) Light yellow plastic (blade).
- (9) Transparent black plastic (USB adaptor case).
- (10) Black plastic (wire covering) (internal).
- (11) Red plastic (wire covering) (internal).
- (12) Transparent plastic (antenna) (internal).
- (13) Green printed brown PCB (PCB) (internal).
- (14) Transparent plastic (LED holder) (internal).
- (15) Black plastic (tactile switch, slide switch) (internal).
- (16) Brown PCB (PCB of slide switch) (internal).
- (17) White plastic (wire covering) (internal).



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- (18) Blue plastic (wire covering) (internal).
- (19) Plastic part of buzzer (internal).
- (20) Plastic part of variable resistor (internal).
- (21) Plastic part of direction switch (internal).
- (22) Plastic part of grey motor (internal).
- (23) Plastic part of white motor (internal).
- (24) Transparent blue plastic (LED) (internal).
- (25) Transparent green plastic (LED) (internal).
- (26) Green PCB (PCB) (internal).
- (27) Snow white plastic (connector) (internal).

Date sample received : Mar 07, 2025

Test Period : Mar 07, 2025 to Mar 14, 2025



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(13) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : The document AfPS GS 2019:01 PAK issued by the Federal Institute for Occupational Safety and Health, solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Compound	Result (ppm)			Limit (ppm)
	(1/2/3)	(4/5/6)	(7/8)	
Benzo(a)pyrene	<0.10	<0.10	<0.10	0.5
Benzo(e)pyrene	<0.10	<0.10	<0.10	0.5
Benzo(a)anthracene	<0.10	<0.10	<0.10	0.5
Chrysene	<0.10	<0.10	<0.10	0.5
Benzo(b)fluoranthene	<0.10	<0.10	<0.10	0.5
Benzo(j)fluoranthene	<0.10	<0.10	<0.10	0.5
Benzo(k)fluoranthene	<0.10	<0.10	<0.10	0.5
Dibenzo(a,h)anthracene	<0.10	<0.10	<0.10	0.5

The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

Tested Components:

- (1) Black plastic (remote control case).
- (2) Transparent red plastic (LED).
- (3) Black foam with silver color/ blue/ yellow printings (plane).
- (4) Blue plastic (battery case, motor holder).
- (5) Light blue plastic (blade).
- (6) Yellow plastic (battery case, motor holder).
- (7) Light yellow plastic (blade).
- (8) Transparent black plastic (USB adaptor case).

Date sample received : Mar 07, 2025

Test Period : Mar 07, 2025 to Mar 13, 2025



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(14) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : The document AfPS GS 2019:01 PAK issued by the Federal Institute for Occupational Safety and Health, solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Compound	Result (ppm)			Limit (ppm)
	(1/2/3)	(4/5/6)	(7/8)	
Benzo(a)pyrene	<0.10	<0.10	<0.10	0.5
Benzo(e)pyrene	<0.10	<0.10	<0.10	0.5
Benzo(a)anthracene	<0.10	<0.10	<0.10	0.5
Chrysene	<0.10	<0.10	<0.10	0.5
Benzo(b)fluoranthene	<0.10	<0.10	<0.10	0.5
Benzo(j)fluoranthene	<0.10	<0.10	<0.10	0.5
Benzo(k)fluoranthene	<0.10	<0.10	<0.10	0.5
Dibenzo(a,h)anthracene	<0.10	<0.10	<0.10	0.5

The above limit was quoted according to REACH Regulation (EC) no. 1907/2006 & amendment no. 1272/2013, Annex XVII, Item 50 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

Tested Components:

- (1) Black plastic (remote control case).
- (2) Transparent red plastic (LED).
- (3) Black foam with silver color/ blue/ yellow printings (plane).
- (4) Blue plastic (battery case, motor holder).
- (5) Light blue plastic (blade).
- (6) Yellow plastic (battery case, motor holder).
- (7) Light yellow plastic (blade).
- (8) Transparent black plastic (USB adaptor case).

Date sample received : Mar 07, 2025

Test Period : Mar 07, 2025 to Mar 13, 2025



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(15) Toxic Elements Analysis

Test Method : Acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

	Result (ppm)			Limit (ppm)
	(1)	(2/3/4)	(5/6)	
Total Lead (Pb)	<5	<5	<5	--
Total Cadmium (Cd)	<5	<5	<5	--
Total Mercury (Hg)	<5	<5	<5	--
Chromium VI (Cr (VI))	<5	<5	<5	--
Sum of Lead, Cadmium, Mercury and Chromium Cr (VI)	<20	<20	<20	100

	Result (ppm)	Limit (ppm)
	(7)	
Total Lead (Pb)	<5	--
Total Cadmium (Cd)	<5	--
Total Mercury (Hg)	<5	--
Chromium VI (Cr (VI))	<5	--
Sum of Lead, Cadmium, Mercury and Chromium Cr (VI)	<20	100

Tested Components:

- (1) Transparent coating on plastic film (box, tray) (packaging).
- (2) Brown paper board with plastic film (box, tray) (packaging).
- (3) Transparent plastic (window of box) (packaging).
- (4) Transparent adhesive tape (on box) (packaging).
- (5) Translucent plastic (tie) (packaging).
- (6) Transparent plastic sheet with adhesive (bag) (packaging).
- (7) Silver color metal (staples) (packaging).

Date sample received : Mar 07, 2025

Test Period : Mar 07, 2025 to Mar 13, 2025



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(16) Toxic Elements Analysis

Test Method : 94/62/EC and its amendment on packaging and packaging waste, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

	Result (ppm)			Limit (ppm)
	(1)	(2/3/4)	(5/6)	
Total Lead (Pb)	<5	<5	<5	--
Total Cadmium (Cd)	<5	<5	<5	--
Total Mercury (Hg)	<5	<5	<5	--
Chromium VI (Cr (VI))	<5	<5	<5	--
Sum of Lead, Cadmium, Mercury and Chromium Cr (VI)	<20	<20	<20	100

	Result (ppm)	Limit (ppm)
	(7)	
Total Lead (Pb)	<5	--
Total Cadmium (Cd)	<5	--
Total Mercury (Hg)	<5	--
Chromium VI (Cr (VI))	<5	--
Sum of Lead, Cadmium, Mercury and Chromium Cr (VI)	<20	100

Tested Components:

- (1) Transparent coating on plastic film (box, tray) (packaging).
- (2) Brown paper board with plastic film (box, tray) (packaging).
- (3) Transparent plastic (window of box) (packaging).
- (4) Transparent adhesive tape (on box) (packaging).
- (5) Translucent plastic (tie) (packaging).
- (6) Transparent plastic sheet with adhesive (bag) (packaging).
- (7) Silver color metal (staples) (packaging).

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(17) Safety of Electric Toys

Test Standard : European Standard EN IEC 62115:2020+A11:2020 on Safety of electric toys

Age group for testing : For Ages Over 8 Years

Power source

Controller (TX) : 1.5V, LR03 size x 3pcs

Car (RX) : 3.7V; 400mAh, Li-ion rechargeable battery x 1pc, charged by USB 5VDC

Included battery : Yes (Rechargeable battery x 1pc)

Operated function : Sound, light, and motion

Clause	Requirement	Findings	Assessment
1	Scope		--
2	Normative reference		--
3	Term and definitions		--
4	General requirement		--
5	General conditions for test		--
5.2	Precondition		A
	Tension test	No break	A
	Drop test	Mass: TX<0.5kg, RX<1kg No break	A
	Tip over test		NA
	Static strength test		NA
	Dynamic strength test		NA
	Tension test for seams and materials		NA
5.7.2	Electric toys that are used with batteries	Connections were prevented by the construction	P
6	Criteria for reduced testing		NA
6.1	General		--
6.2	Short-circuit resistance		NA
6.3	Low power electric toys		NA
6.4	Battery circuits		NA
7	Marking and instructions		P
7.1	General		P#1
7.2	Marking on electric toys		P
7.2.1	Identification		#2
7.2.2	Electric toys with replaceable batteries		P
7.2.3	Transformer toys and power supply toys		NA
7.2.4	Electric toys with more than one power supply		NA
7.2.5	Electric toys with detachable lamps		NA
7.2.6	Symbols		P
7.2.7	Durability	Legible	P



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Clause	Requirement	Findings	Assessment
7.3	Instructions and markings on packaging		P
7.3.1	General		P
7.3.2	Transformer toys and power supply toys		NA
7.3.3	Electric toys that are used with replaceable batteries		P
7.3.3.1	General		P
7.3.3.2	Coin batteries		NA
7.3.3.3	Button batteries		NA
7.4	Instructions for electric toys that can be connected to class I equipment		NA
7.5	Instructions for ride-on electric toys		NA
7.6	Temperature warnings		NA
8	Power input		NA
9	Heating and abnormal operation		P
9.1	General		P
9.2	Test condition		--
9.3	Normal operation	Refer to table	P
9.4	Normal operation with insulation short-circuited	No short circuit found	P
9.5	Abnormal operation with temperature controls made inoperable		NA
9.6	With accessible moving parts locked	Refer to table	P
9.7	Additional transformers and power supplies		NA
9.8	Abnormal supply to electric toys via a USB connection.		NA
9.9	Fault condition in electronic circuits	TX: SC LED: NH RX: SC LED, Qs, Ds:NH SC= short circuit, NH= No hazard	P
9.10	Compliance criteria		P
10	Electric strength	250VAC, 50Hz, 60Hz for 1 min No breakdown occur	P
10.1	Electric strength at operating temperature		P
10.2	Electric strength under humid conditions	RH 93% ± 3%. T= 20°C ~ 30°C for 48hrs	P
11	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid		NA
12	Mechanical strength		P
12.1	Enclosures	0.5J, 3 blows, no damage that could impair compliance with 9.3, 9.5, 9.7, 9.8, 10, 11, 13.4.1, 13.4.2, 13.4.3 and 13.6, 14, and 17	P
12.2	Attachment strength	No such part	NA
13	Construction		P
13.1	Nominal supply voltage	TX:4.5V & RX:3.7V <24V	P



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Clause	Requirement	Findings	Assessment
13.2	Transformers, power supplies and battery chargers		P
13.3	Thermal cut-outs.	No such component	NA
13.4	Batteries		P
13.4.1	Small batteries	Need tool to open battery cover	P
13.4.2	Other batteries	Need tool to open battery cover	P
13.4.3	Electrolyte leakage		NA
13.4.4	Electric toys placed above a child	Not intended for fix above children	NA
13.4.5	Parallel connection of batteries	No batteries connected in parallel	P
13.4.6	Battery compartment fasteners		P
13.5	Plug and sockets		P
13.6	Charging batteries		NA
13.7	Series motors	No series motor	NA
13.8	Working voltage	<24V	NA
13.9	Electric toys connecting to other equipment.		NA
13.10	Speed limitation of ride-on electric toys	No such toy	NA
14	Protection of cords and wires		P
14.1	Edges and moving parts	smooth and free from sharp edges	P
14.2	Fixed parts	Meet clause 17	P
15	Components		P
15.1.1	General		P
15.1.2	Switches and automatic controls	< 3A	NA
15.1.3	Other components		P
15.2	Prohibited components	No such components	P
15.3	Transformers and power supplies		NA
15.4	Battery chargers		NA
15.5	Batteries		#3
16	Screws and connections		P
16.1	Fixings		P
16.2	Connections		NA
17	Clearances and creepage distances	TX: on Battery compartment: 13.2mm > 0.5mm on PCB: 0.3 mm > 0.2mm RX: on Battery compartment: 3.2mm > 0.5mm on PCB: 0.3 mm > 0.2mm	P
18	Resistance to heat and fire		P
18.1	Resistance to heat	TX, RX <12V	NA



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Clause	Requirement	Findings	Assessment
18.2	Resistance to fire		P
18.2.1	General		P
18.2.2	Non-metallic parts	550°C, Duration of burning (tb)(s): 0s <30s	P
18.2.3	Insulating material	TX, RX <12V	NA
19	Radiation and similar hazards		--
19.1	General		--
19.2	Optical radiation (In Annex E)		--
19.3	Other electromagnetic radiation (In Annex I)		NA
Annex A	Experimental sets		NA
Annex B	Needle flame test		NA
Annex C	Automatic controls and switches		NA
C.1	Automatic controls		NA
C.2	Switches		NA
Annex D	Electric toys with protective electronic circuits		NA
D.1	General		NA
D.2	Dangerous malfunction		NA
D.2.1	General		NA
D.2.2	Electrostatic discharges		NA
D.2.3	Radiated fields		NA
D.2.4	Transient bursts		NA
D.2.5	Voltage surges		NA
D.2.6	Injected current		NA
D.2.7	Voltage dips and interruptions		NA
D.2.8	Mains signals		NA
Annex E	Safety of electric toys incorporating optical radiation sources		--
	19.E.2 - 19.E.4 Radiation Hazard		#4
	19.E.5 Modulated accessible emission warning		NA
Annex F	Flowcharts showing the assessment of optical radiation safety of LEDs in electric toys		--
Annex G	Examples of calculations on LEDs		--
Annex H	Explanation of the principles used for the requirements of Annex E		--
Annex I	Electric toys generating electromagnetic fields (EMF)		P
Annex J	Safety of remote controls for electric ride-on toys		NA
Annex K	Flow charts showing the application of Clause 9		--



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9.3	TABLE: Heating Test (Normal operation)			P
	Test voltage (V) :	TX:4.5V; RX:3.7V		—
	Ambient (°C) :	21.2		—
Channel	Thermocouple Locations	Max. temperature rise, (K)	Max. temperature limit, (K)	
TX				
2	Battery surface	1.5	45	
3	Battery surface	1.2	45	
7	Battery surface	1.3	45	
4	Battery contact plate	1.8	45	
5	Battery cover	1.4	55	
6	PCB enclosure	2.3	55	
RX				
10	Battery surface	34.4	55	
11	PCB enclosure	4.3	55	
12	Front-left motor enclosure	14.9	55	
14	Front-right motor enclosure	15.2	55	
13	Back-left motor enclosure	20.9	55	
15	Back-right motor enclosure	14.9	55	
Measurement Uncertainty: $U_{95} = \pm 2.0K$				

9.6	TABLE: Heating Test (Lock motor)			P
	Test voltage (V) :	RX: 3.7V		—
	Ambient (°C) :	20.8		—
Channel	Thermocouple Locations	Max. temperature rise, (K)	Max. temperature limit, (K)	
RX				
10	Battery surface	1.6	55	
11	PCB enclosure	1.6	55	
12	Front motor enclosure	4.7	55	
13	Back motor enclosure	5.3	55	
Supplementary information: Test is terminated after 30 s as toy is kept switched on by hand.				
Measurement Uncertainty: $U_{95} = \pm 2.0K$				

Abbreviation : P = Pass A=Applicable NA = Not Applicable



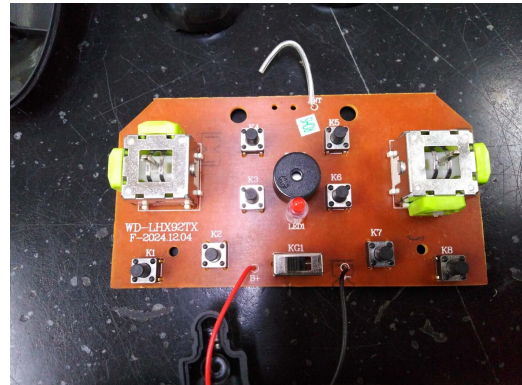
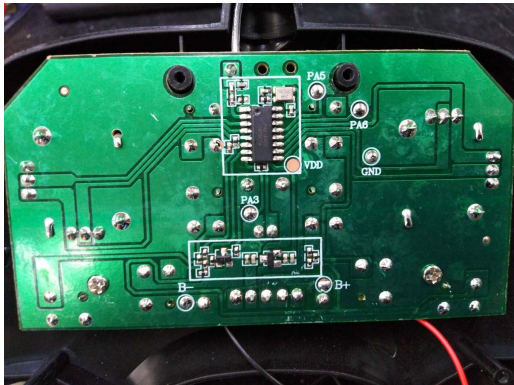
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Remark(s):

- #1 = Only the English version of the marking and instructions were assessed. According to the standard, instruction sheets and other texts required by the standard shall be written in the official language of the country in which the product is to be sold.
- #2 = Clause 7.2.1 Below are additional information according to the requirement in Toy Safety Directive 2009/48/EC relating to marking of toys and do not constitute requirements of this European Standard:
The manufacturer's and importer's name, registered trade name or registered trade mark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
- #3 = Clause 15.5 Batteries
Secondary batteries supplied with electric toys complied with IEC 62133 latest version.
Received test report: AGC07403230203TA01 from applicant.
- #4 = Intertek HK did not perform actual test for the standard.
Referred to test result in Annex E Clause 19.E.2-19.E.4.

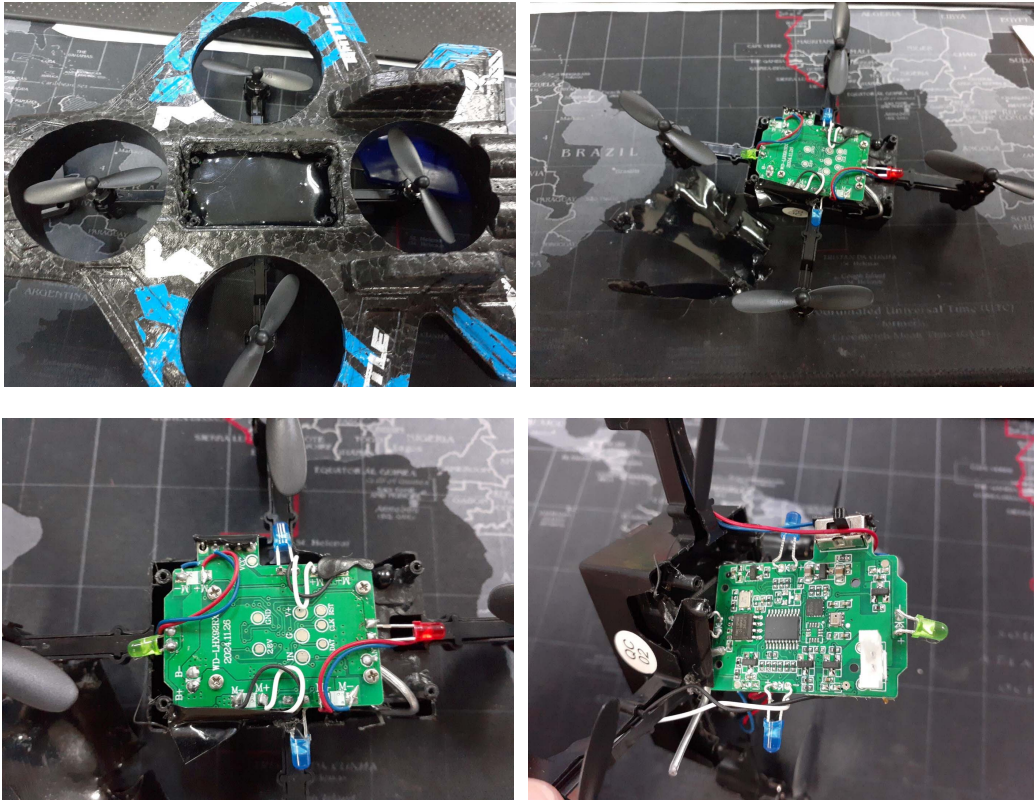
TX:



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RX:



Date sample received : Mar 07, 2025
Testing period: Mar 07, 2025 to May 12 , 2025



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(18) Optical Radiation

Test Standard : European Standard EN IEC 62115: 2020 + A11: 2020 on Safety of electric toys, Annex E

Clause	Title/Description	Result
19.E.2	Light-emitting diodes (LEDs)	Pass
19.E.3	Lasers (IEC 60825-1: 2014)	Not Applicable
19.E.4	UV-emitting lamps	Not Applicable

Table of measuring data

For Red LED used in remote unit (red diffused)					
Condition	Measured Wavelength	Spectral Emission Bandwidth	Measuring Distance	Measured Radiant Intensity	Limit
Normal (without cover)	627nm	14.4nm	200mm	0.16mW/sr	0.76W/sr
Fault (without cover)	627nm	14.4nm	200mm	0.34mW/sr	0.76W/sr

For Red LED used in aeroplane unit (red diffused)					
Condition	Measured Wavelength	Spectral Emission Bandwidth	Measuring Distance	Measured Radiant Intensity	Limit
Normal (without cover)	628nm	18.2nm	200mm	1.40mW/sr	0.76W/sr
Fault (without cover)	628nm	18.2nm	200mm	1.48mW/sr	0.76W/sr



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For Green LED used in aeroplane unit (green diffused)

Condition	Measured Wavelength	Spectral Emission Bandwidth	Measuring Distance	Measured Radiant Intensity	Limit
Normal (without cover)	565nm	14.0nm	200mm	0.04mW/sr	0.76W/sr
Fault (without cover)	565nm	14.0nm	200mm	0.05mW/sr	0.76W/sr

For Blue LED used in aeroplane unit (blue diffused)

Condition	Measured Wavelength	Spectral Emission Bandwidth	Measuring Distance	Measured Radiant Intensity	Limit
Normal (without cover)	465nm	20.0nm	200mm	3.76mW/sr	0.06W/sr
Fault (without cover)	465nm	20.0nm	200mm	4.34mW/sr	0.06W/sr

Remark:

1. When determining the test conclusion, the Measurement Uncertainty of test has been considered. The decision rules are based on IEC Guide 115 with complying the relevant requirements of environment and equipment.
2. The test was conducted by operating the remote unit of apparatus at rated voltage 4.5VDC, the aeroplane unit of apparatus at rated voltage 3.7VDC and the USB cable unit of apparatus at rated voltage 5.0VDC.
3. 1 pc. 3mm round type red diffused Red LED is used in the remote unit of apparatus.
4. 1 pc. 3mm round type red diffused Red LED is used in the aeroplane unit of apparatus.
5. 1 pc. 3mm round type green diffused Green LED is used in the aeroplane unit of apparatus.
6. 2 pcs. 3mm round type blue diffused Blue LEDs used in the aeroplane unit of apparatus are identical to each other.

Date sample received : Mar 07, 2025
 Testing period : Mar 07, 2025 to Mar 18, 2025



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(19) RoHS Test

(A) Result

Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(1)	ND	ND	ND	ND	NA	--
(2)	ND	ND	ND	ND	ND	--
(3)	ND	#1	ND	ND	#	PBBs:ND PBDEs:ND
(4)	ND	ND	ND	ND	ND	--
(5)	ND	ND	ND	ND	ND	--
(6)	--	--	--	--	--	Cd:ND Pb:57 mg/kg Hg:ND Cr ⁶⁺ :ND
(7)	ND	ND	ND	ND	ND	--
(8)	ND	ND	ND	ND	ND	--
(9)	ND	ND	ND	ND	NA	--
(10)	ND	ND	ND	ND	ND	--
(11)	ND	ND	ND	ND	NA	--
(12)	ND	ND	ND	ND	NA	--
(13)	ND	ND	ND	ND	NA	--
(14)	ND	ND	ND	ND	NA	--
(15)	ND	ND	ND	ND	NA	--
(16)	ND	ND	ND	ND	ND	--
(17)	ND	ND	ND	ND	ND	--
(18)	ND	ND	ND	ND	ND	--
(19)	ND	ND	ND	ND	ND	--
(20)	ND	ND	ND	ND	ND	--
(21)	ND	ND	ND	ND	ND	--
(22)	ND	ND	ND	ND	ND	--
(23)	ND	ND	ND	ND	ND	--
(24)	ND	ND	ND	ND	NA	--
(25)	ND	ND	ND	ND	ND	--
(26)	ND	ND	ND	ND	NA	--
(27)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(28)	ND	ND	ND	ND	ND	--
(29)	ND	ND	ND	ND	NA	--
(30)	ND	ND	ND	ND	NA	--
(31)	ND	ND	ND	ND	ND	--



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Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(32)	ND	ND	ND	#	NA	Cr ⁶⁺ :< 0.10
(33)	ND	ND	ND	ND	NA	--
(34)	ND	ND	ND	ND	NA	--
(35)	ND	ND	ND	ND	ND	--
(36)	ND	ND	ND	ND	NA	--
(37)	ND	ND	ND	ND	NA	--
(38)	ND	ND	ND	ND	ND	--
(39)	ND	ND	ND	ND	NA	--
(40)	ND	ND	ND	ND	ND	--
(41)	ND	ND	ND	ND	NA	--
(42)	ND	ND	ND	ND	NA	--
(43)	ND	ND	ND	ND	NA	--
(44)	ND	ND	ND	ND	NA	--
(45)	ND	ND	ND	ND	NA	--
(46)	ND	ND	ND	ND	ND	--
(47)	ND	ND	ND	ND	ND	--
(48)	ND	ND	ND	ND	ND	--
(49)	ND	ND	ND	ND	NA	--
(50)	ND	ND	ND	ND	ND	--
(51)	ND	ND	ND	ND	NA	--
(52)	ND	ND	ND	ND	NA	--
(53)	ND	ND	ND	#	NA	Cr ⁶⁺ :< 0.10
(54)	ND	ND	ND	ND	NA	--
(55)	ND	ND	ND	ND	ND	--
(56)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(57)	ND	ND	ND	ND	ND	--
(58)	ND	ND	ND	#	NA	Cr ⁶⁺ :< 0.10
(59)	ND	ND	ND	ND	NA	--
(60)	ND	ND	ND	ND	ND	--
(61)	ND	ND	ND	ND	NA	--
(62)	ND	ND	ND	ND	ND	--
(63)	ND	ND	ND	ND	NA	--
(64)	ND	ND	ND	ND	ND	--
(65)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(66)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(67)	ND	ND	ND	ND	ND	--
(68)	ND	ND	ND	ND	ND	--



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Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(69)	ND	ND	ND	ND	ND	--
(70)	ND	ND	ND	ND	ND	--
(71)	ND	ND	ND	ND	NA	--
(72)	ND	ND	ND	ND	ND	--
(73)	ND	ND	ND	ND	ND	--
(74)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(75)	ND	ND	ND	ND	NA	--
(76)	ND	ND	ND	ND	ND	--
(77)	ND	ND	ND	ND	NA	--
(78)	ND	ND	ND	ND	ND	--
(79)	ND	ND	ND	ND	NA	--
(80)	ND	ND	ND	ND	ND	--
(81)	ND	ND	ND	ND	NA	--
(82)	ND	ND	ND	ND	NA	--
(83)	ND	ND	ND	ND	NA	--
(84)	ND	ND	ND	ND	NA	--
(85)	ND	ND	ND	ND	NA	--
(86)	ND	ND	ND	ND	NA	--
(87)	ND	ND	ND	ND	ND	--
(88)	ND	ND	ND	ND	NA	--
(89)	ND	ND	ND	#	NA	Cr ⁶⁺ :< 0.10
(90)	ND	ND	ND	ND	ND	--
(91)	ND	ND	ND	ND	NA	--
(92)	ND	ND	ND	ND	NA	--
(93)	ND	ND	ND	ND	NA	--
(94)	ND	ND	ND	ND	NA	--
(95)	ND	ND	ND	ND	NA	--
(96)	ND	ND	ND	ND	NA	--
(97)	ND	ND	ND	ND	ND	--
(98)	ND	ND	ND	ND	NA	--
(99)	ND	ND	ND	#	NA	Cr ⁶⁺ :< 0.10



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- ND : Not Detected
- NA : Not Applicable
- D : Detected : Below the lower screening limit of table(B) and pass.
- ppm : part per million = mg/kg
- # : Inconclusive
- #1 : As confirmed by the client, the Lead content of the component is coming from the constituent of ceramic part of the electronic component only. According to EU RoHS Directive, Lead in electronic ceramic parts of this component can be exempted.

List of Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) in chemical confirmation test:

PBBs	PBDEs
Monobromobiphenyl (monoBB)	Monobromodiphenyl ether (MonoBDE)
Dibromobiphenyl (DiBB)	Dibromodiphenyl ether (DiBDE)
Tribromobiphenyl (TriBB)	Tribromodiphenyl ether (TriBDE)
Tetrabromobiphenyl (TetraBB)	Tetrabromodiphenyl ether (TetraBDE)
Pentabromobiphenyl (PentaBB)	Pentabromodiphenyl ether (PentaBDE)
Hexabromobiphenyl (HexaBB)	Hexabromodiphenyl ether (HexaBDE)
Heptabromobiphenyl (HeptaBB)	Heptabromodiphenyl ether (HeptaBDE)
Octabromobiphenyl (OctaBB)	Octabromodiphenyl ether (OctaBDE)
Nonabromobiphenyl (NonaBB)	Nonabromodiphenyl ether (NonaBDE)
Decabromobiphenyl (DecaBB)	Decabromodiphenyl ether (DecaBDE)

(B) XRF screening limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 300 < X$	Not applicable	$P \leq 250 < X$



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P = Pass
X = Inconclusive result
F = Fail
mg/kg = milligram per kilogram = ppm

(C) Estimated detection limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not Applicable	200

Disclaimers:

This XRF screening report is for reference purposes only. The applicant shall make Its/His/Her own judgement as to whether the information provided in this XRF screening report is sufficient for Its/His/Her purposes.

The results shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. Plastic, Rubber, Metal, Glass, Ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.



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(D) Test Methods

Testing Item	Testing Method	Reporting Limit
XRF screening	With reference to IEC 62321-3-1 edition 1.0 : 2013, by X-ray fluorescence spectrometry	Refer to (C)
Cadmium (Cd) Content	With reference to IEC 62321-5 edition 1.0 : 2013, by acid digestion and determined by ICP-OES	10 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 edition 1.0 : 2013, by acid digestion and determined by ICP-OES	10 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4 edition 1.0 : 2013+AMD1:2017, by acid digestion and determined by ICP-OES	10 mg/kg
Chromium (VI) (Cr ⁶⁺) Content (For Non-Metal)	With reference to IEC 62321-7-2 : 2017, by alkaline digestion and determined by UV-VIS spectrophotometer	5 mg/kg
Chromium (VI) (Cr ⁶⁺) Content (For Leather)	With reference to ISO 17075-1 : 2017, by phosphate butter extraction and determined by UV-VIS spectrophotometer	1 mg/kg
Chromium (VI) (Cr ⁶⁺) Content (For Metal)	With reference to IEC 62321-7-1 : 2015, by boiling water extraction and determined by UV-VIS spectrophotometer	0.1 µg/cm ²
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 : 2015, by solvent extraction and determined by GC/MS.	20 mg/kg

The explanation of Chromium VI (Cr⁶⁺) analysis result (For Metal)

Colorimetric result	Qualitative result	Explanation
< 0.10 µg/cm ²	Negative	The result of sample is negative for Cr (VI). The sample coating is considered a non-Cr(VI) based coating.
≥ 0.10 µg/cm ² and ≤ 0.13 µg/cm ²	Inconclusive	The result of sample is considered to be inconclusive. If addition samples are available, recommend to add trials and get the average result for the final determination.
> 0.13 µg/cm ²	Positive	The result of sample is positive for Cr(VI). The sample coating is considered to contain Cr(VI). A result expresses as positive, while not an actual value, which indicates a visual observation was used.



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(E) RoHS requirements

Restricted substances	Limits
Cadmium (Cd)	0.01% (100 ppm)
Lead (Pb)	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)

The above limits were quoted from Annex II of 2011/65/EU.

Tested Components:

- (1) Silver color metal (case of USB plug).
- (2) Translucent black plastic (USB plug cover).
- (3) White body with black printing with silver color metal (SMD resistor).
- (4) Black body with silver color metal (SMD transistor).
- (5) Transparent/ white body (SMD LED).
- (6) Solder (on PCB).
- (7) Light green/ brown fibre board (PCB).
- (8) White plastic (housing slot/housing).
- (9) Silver color metal (pin of housing slot).
- (10) Black plastic with white coating (screwdriver, controller).
- (11) Silver color metal (screwdriver).
- (12) Silver color metal (battery spring).
- (13) Silver color metal (battery contact plate).
- (14) Solder (on contact plate).
- (15) Silver color metal (screw).
- (16) Silver color body (SMD oscillator).
- (17) Black body with silver color metal (SMD IC).
- (18) Light brown body with silver color metal (SMD capacitor).
- (19) Grey body with silver color metal (SMD capacitor).
- (20) White body with silver color metal (SMD capacitor).
- (21) Green/ brown fibre board (PCB).
- (22) Red plastic (wire insulator).
- (23) Black plastic (wire insulator).
- (24) Copper color metal (wire).
- (25) Transparent plastic (cover of antenna).
- (26) Silver color metal (antenna).
- (27) Transparent red plastic (LED).
- (28) Translucent plastic (holder of LED).
- (29) Silver color metal (lead of LED).
- (30) Silver color metal (frame of tactile switch).
- (31) Black plastic (button and case of tactile switch).
- (32) Silver color metal (contact plate of tactile switch).
- (33) Silver color metal (lead of tactile switch).
- (34) Silver color metal (frame of slide switch).



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- (35) Black plastic (switch of slide switch).
- (36) Dull silver color metal (spring of slide switch).
- (37) Silver color metal (contact plate of slide switch).
- (38) Light brown fibre board (PCB of slide switch).
- (39) Silver color metal (lead of slide switch).
- (40) Black plastic (case of buzzer).
- (41) Silver color metal (thick contact plate of buzzer).
- (42) Silver color metal (thin contact plate of buzzer).
- (43) Dark grey metal (magnet of buzzer).
- (44) Silver color metal (coil holder of buzzer).
- (45) Copper color metal (coil of buzzer).
- (46) Green fibre board (PCB of buzzer).
- (47) Light green plastic (case of variable resistor).
- (48) Brown fibre board (PCB of variable resistor).
- (49) Silver color metal (contact plate of variable resistor).
- (50) Off white plastic (contact plate holder of variable resistor).
- (51) Silver color metal (lead of variable resistor).
- (52) Silver color metal (case of direction control switch).
- (53) Silver color metal (rod of direction control switch).
- (54) Silver color metal (rivet of direction control switch).
- (55) Off white plastic (rod holder of direction control switch).
- (56) Light ivory plastic (rod holder of direction control switch).
- (57) Grey plastic (rod holder of direction control switch).
- (58) Silver grey metal (rod holder of direction control switch).
- (59) Dull silver color metal (spring of direction control switch).
- (60) Light green plastic (spring holder of direction control switch).
- (61) Silver color metal (terminal of housing).
- (62) Black foam with printings (plane).
- (63) Black plated metal (screw).
- (64) Yellow plastic with black coating (battery case of plane).
- (65) Transparent blue plastic (LED).
- (66) Transparent green plastic (LED).
- (67) Blue plastic (thin wire insulator).
- (68) White plastic (thin wire insulator).
- (69) Light red plastic (thin wire insulator).
- (70) Black plastic (thin wire insulator).
- (71) Silver color metal (wire).
- (72) Paper label with plastic film (sticker).
- (73) Black body with silver color metal (flat SMD IC).
- (74) Green fibre board (PCB).
- (75) Silver color metal (frame of slide switch with clip).
- (76) Black plastic (switch of slide switch with clip).
- (77) Silver color metal (contact plate of slide switch with clip).
- (78) Light brown fibre board (PCB of slide switch with clip).
- (79) Silver color metal (lead of slide switch with clip).
- (80) Off white plastic (cap of white motor).
- (81) Silver color metal (contact plate of white motor).
- (82) Silver color metal (case of white motor).
- (83) Silver color metal (tube of white motor).
- (84) Light copper color metal (washer of white motor).
- (85) Silver color metal (magnet of white motor).
- (86) Silver color metal (commutator case of white motor).
- (87) Translucent black plastic with silver color printing (commutator of white motor).
- (88) Copper color metal (coil of white motor).
- (89) Silver color metal (axle of white motor).
- (90) Grey plastic (cap of grey motor).



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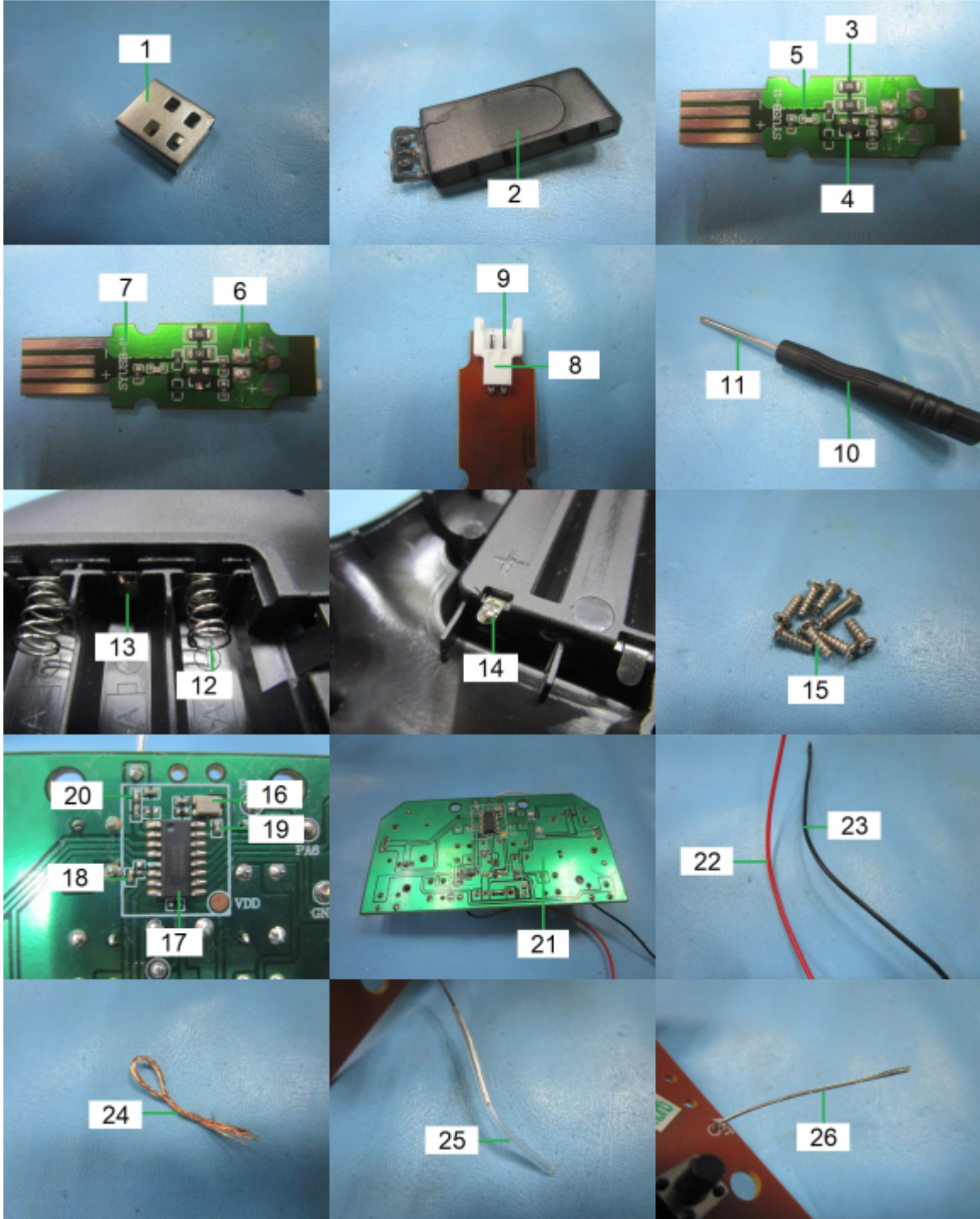
- (91) Silver color metal (contact plate of grey motor).
- (92) Silver color metal (case of grey motor).
- (93) Silver color metal (tube of grey motor).
- (94) Gold color metal (washer of grey motor).
- (95) Silver color metal (magnet of grey motor).
- (96) Silver color metal (commutator case of grey motor).
- (97) Translucent yellow plastic with silver color printing (commutator of grey motor).
- (98) Copper color metal (coil of grey motor).
- (99) Silver color metal (axle of grey motor).



TEST REPORT

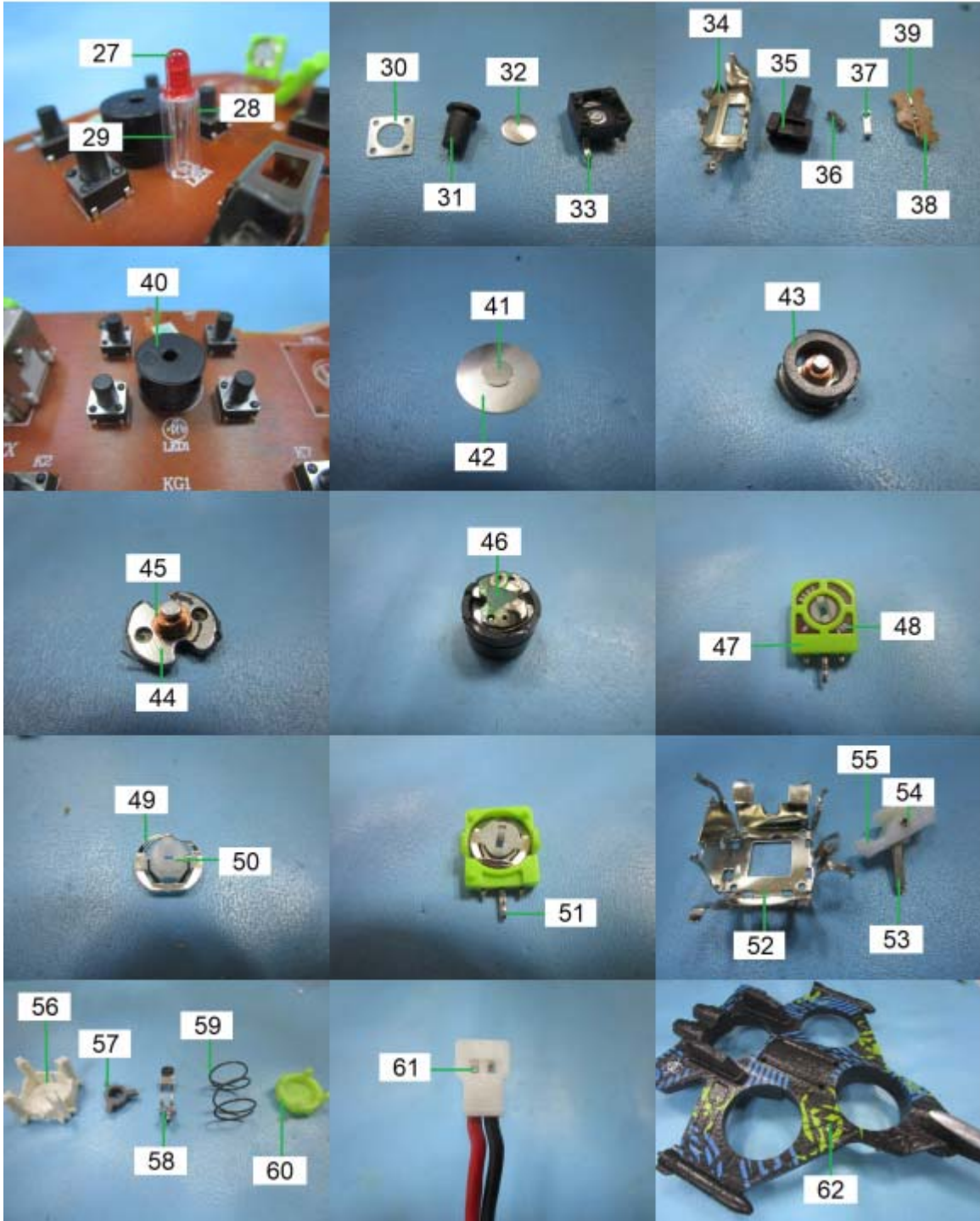
Number : HKGH0322986601

TESTED COMPONENTS PHOTOS OF HJ03229866



TEST REPORT

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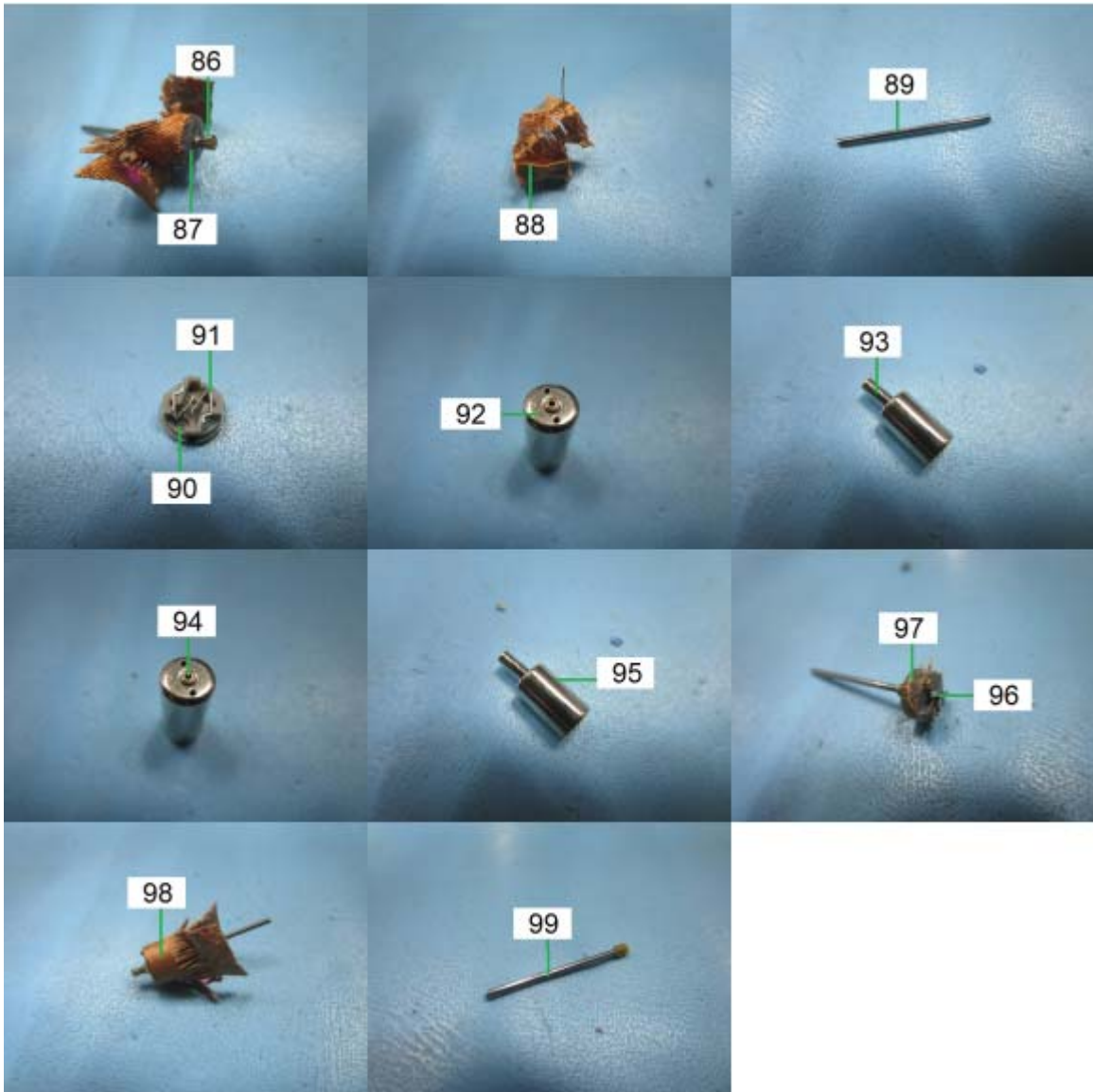
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Date sample received : Mar 07, 2025 and Mar 26, 2025
Test Period : Mar 07, 2025 to Mar 26, 2025



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(20) Phthalate Content Test

Test Method : IEC 62321-8:2017, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% w/w)			Limit (% w/w)
	(1)	(2/3/4)	(5/6/7)	
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(8/9)	(10/11/12)	(13/14/15)	
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(16/17/18)	(19)	(20)	
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(21)	(22)	(23)	
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)		Limit (% w/w)
	(24/25/26)	(27)	
Diisobutyl phthalate (DIBP)	<0.01	<0.01	0.1

The above limit was quoted according to Commission Delegated Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Tested Components:

- (1) White/ black coatings on plastic (remote control, plane).
- (2) Black plastic (remote control case).
- (3) Transparent red plastic (LED).
- (4) Black foam with silver color/ blue/ yellow printings (plane).
- (5) Blue plastic (battery case, motor holder).
- (6) Light blue plastic (blade).
- (7) Yellow plastic (battery case, motor holder).
- (8) Light yellow plastic (blade).
- (9) Transparent black plastic (USB adaptor case).
- (10) Black plastic (wire covering) (internal).
- (11) Red plastic (wire covering) (internal).
- (12) Transparent plastic (antenna) (internal).
- (13) Green printed brown PCB (PCB) (internal).
- (14) Transparent plastic (LED holder) (internal).



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- (15) Black plastic (tactile switch, slide switch) (internal).
- (16) Brown PCB (PCB of slide switch) (internal).
- (17) White plastic (wire covering) (internal).
- (18) Blue plastic (wire covering) (internal).
- (19) Plastic part of buzzer (internal).
- (20) Plastic part of variable resistor (internal).
- (21) Plastic part of direction switch (internal).
- (22) Plastic part of grey motor (internal).
- (23) Plastic part of white motor (internal).
- (24) Transparent blue plastic (LED) (internal).
- (25) Transparent green plastic (LED) (internal).
- (26) Green PCB (PCB) (internal).
- (27) Snow white plastic (connector) (internal).

Date sample received : Mar 07, 2025

Test Period : Mar 07, 2025 to Mar 14, 2025



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(21) RoHS Test

(A) Result

Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(1)	ND	ND	ND	ND	NA	--
(2)	ND	ND	ND	ND	ND	--
(3)	ND	#1	ND	ND	#	PBBs:ND PBDEs:ND
(4)	ND	ND	ND	ND	ND	--
(5)	ND	ND	ND	ND	ND	--
(6)	--	--	--	--	--	Cd:ND Pb:57 mg/kg Hg:ND Cr ⁶⁺ :ND
(7)	ND	ND	ND	ND	ND	--
(8)	ND	ND	ND	ND	ND	--
(9)	ND	ND	ND	ND	NA	--
(10)	ND	ND	ND	ND	ND	--
(11)	ND	ND	ND	ND	NA	--
(12)	ND	ND	ND	ND	NA	--
(13)	ND	ND	ND	ND	NA	--
(14)	ND	ND	ND	ND	NA	--
(15)	ND	ND	ND	ND	NA	--
(16)	ND	ND	ND	ND	ND	--
(17)	ND	ND	ND	ND	ND	--
(18)	ND	ND	ND	ND	ND	--
(19)	ND	ND	ND	ND	ND	--
(20)	ND	ND	ND	ND	ND	--
(21)	ND	ND	ND	ND	ND	--
(22)	ND	ND	ND	ND	ND	--
(23)	ND	ND	ND	ND	ND	--
(24)	ND	ND	ND	ND	NA	--
(25)	ND	ND	ND	ND	ND	--
(26)	ND	ND	ND	ND	NA	--
(27)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(28)	ND	ND	ND	ND	ND	--
(29)	ND	ND	ND	ND	NA	--
(30)	ND	ND	ND	ND	NA	--
(31)	ND	ND	ND	ND	ND	--



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Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(32)	ND	ND	ND	#	NA	Cr ⁶⁺ :< 0.10
(33)	ND	ND	ND	ND	NA	--
(34)	ND	ND	ND	ND	NA	--
(35)	ND	ND	ND	ND	ND	--
(36)	ND	ND	ND	ND	NA	--
(37)	ND	ND	ND	ND	NA	--
(38)	ND	ND	ND	ND	ND	--
(39)	ND	ND	ND	ND	NA	--
(40)	ND	ND	ND	ND	ND	--
(41)	ND	ND	ND	ND	NA	--
(42)	ND	ND	ND	ND	NA	--
(43)	ND	ND	ND	ND	NA	--
(44)	ND	ND	ND	ND	NA	--
(45)	ND	ND	ND	ND	NA	--
(46)	ND	ND	ND	ND	ND	--
(47)	ND	ND	ND	ND	ND	--
(48)	ND	ND	ND	ND	ND	--
(49)	ND	ND	ND	ND	NA	--
(50)	ND	ND	ND	ND	ND	--
(51)	ND	ND	ND	ND	NA	--
(52)	ND	ND	ND	ND	NA	--
(53)	ND	ND	ND	#	NA	Cr ⁶⁺ :< 0.10
(54)	ND	ND	ND	ND	NA	--
(55)	ND	ND	ND	ND	ND	--
(56)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(57)	ND	ND	ND	ND	ND	--
(58)	ND	ND	ND	#	NA	Cr ⁶⁺ :< 0.10
(59)	ND	ND	ND	ND	NA	--
(60)	ND	ND	ND	ND	ND	--
(61)	ND	ND	ND	ND	NA	--
(62)	ND	ND	ND	ND	ND	--
(63)	ND	ND	ND	ND	NA	--
(64)	ND	ND	ND	ND	ND	--
(65)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(66)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(67)	ND	ND	ND	ND	ND	--
(68)	ND	ND	ND	ND	ND	--



TEST REPORT

Number : HKGH0322986601

Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(69)	ND	ND	ND	ND	ND	--
(70)	ND	ND	ND	ND	ND	--
(71)	ND	ND	ND	ND	NA	--
(72)	ND	ND	ND	ND	ND	--
(73)	ND	ND	ND	ND	ND	--
(74)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(75)	ND	ND	ND	ND	NA	--
(76)	ND	ND	ND	ND	ND	--
(77)	ND	ND	ND	ND	NA	--
(78)	ND	ND	ND	ND	ND	--
(79)	ND	ND	ND	ND	NA	--
(80)	ND	ND	ND	ND	ND	--
(81)	ND	ND	ND	ND	NA	--
(82)	ND	ND	ND	ND	NA	--
(83)	ND	ND	ND	ND	NA	--
(84)	ND	ND	ND	ND	NA	--
(85)	ND	ND	ND	ND	NA	--
(86)	ND	ND	ND	ND	NA	--
(87)	ND	ND	ND	ND	ND	--
(88)	ND	ND	ND	ND	NA	--
(89)	ND	ND	ND	#	NA	Cr ⁶⁺ :< 0.10
(90)	ND	ND	ND	ND	ND	--
(91)	ND	ND	ND	ND	NA	--
(92)	ND	ND	ND	ND	NA	--
(93)	ND	ND	ND	ND	NA	--
(94)	ND	ND	ND	ND	NA	--
(95)	ND	ND	ND	ND	NA	--
(96)	ND	ND	ND	ND	NA	--
(97)	ND	ND	ND	ND	ND	--
(98)	ND	ND	ND	ND	NA	--
(99)	ND	ND	ND	#	NA	Cr ⁶⁺ :< 0.10



TEST REPORT

Number : HKGH0322986601

ND : Not Detected

NA : Not Applicable

D : Detected : Below the lower screening limit of table(B) and pass.

ppm : part per million = mg/kg

: Inconclusive

#1 : As confirmed by the client, the Lead content of the component is coming from the constituent of ceramic part of the electronic component only. According to The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012 No. 3032) as amended, Regulation 3(4), Lead in electronic ceramic parts of this component can be exempted.

List of Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) in chemical confirmation test:

PBBs	PBDEs
Monobromobiphenyl (monoBB)	Monobromodiphenyl ether (MonoBDE)
Dibromobiphenyl (DiBB)	Dibromodiphenyl ether (DiBDE)
Tribromobiphenyl (TriBB)	Tribromodiphenyl ether (TriBDE)
Tetrabromobiphenyl (TetraBB)	Tetrabromodiphenyl ether (TetraBDE)
Pentabromobiphenyl (PentaBB)	Pentabromodiphenyl ether (PentaBDE)
Hexabromobiphenyl (HexaBB)	Hexabromodiphenyl ether (HexaBDE)
Heptabromobiphenyl (HeptaBB)	Heptabromodiphenyl ether (HeptaBDE)
Octabromobiphenyl (OctaBB)	Octabromodiphenyl ether (OctaBDE)
Nonabromobiphenyl (NonaBB)	Nonabromodiphenyl ether (NonaBDE)
Decabromobiphenyl (DecaBB)	Decabromodiphenyl ether (DecaBDE)

(B) XRF screening limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 300 < X$	Not applicable	$P \leq 250 < X$



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P = Pass
X = Inconclusive result
F = Fail
mg/kg = milligram per kilogram = ppm

(C) Estimated detection limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not Applicable	200

Disclaimers:

This XRF screening report is for reference purposes only. The applicant shall make Its/His/Her own judgement as to whether the information provided in this XRF screening report is sufficient for Its/His/Her purposes.

The results shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. Plastic, Rubber, Metal, Glass, Ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

(D) Test Methods



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Testing Item	Testing Method	Reporting Limit
XRF screening	With reference to IEC 62321-3-1 edition 1.0 : 2013, by X-ray fluorescence spectrometry	Refer to (C)
Cadmium (Cd) Content	With reference to IEC 62321-5 edition 1.0 : 2013, by acid digestion and determined by ICP-OES	10 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 edition 1.0 : 2013, by acid digestion and determined by ICP-OES	10 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4 edition 1.0 : 2013+AMD1:2017, by acid digestion and determined by ICP-OES	10 mg/kg
Chromium (VI) (Cr ⁶⁺) Content (For Non-Metal)	With reference to IEC 62321-7-2 : 2017, by alkaline digestion and determined by UV-VIS spectrophotometer	5 mg/kg
Chromium (VI) (Cr ⁶⁺) Content (For Leather)	With reference to ISO 17075-1 : 2017, by phosphate butter extraction and determined by UV-VIS spectrophotometer	1 mg/kg
Chromium (VI) (Cr ⁶⁺) Content (For Metal)	With reference to IEC 62321-7-1 : 2015, by boiling water extraction and determined by UV-VIS spectrophotometer	0.1 µg/cm ²
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 : 2015, by solvent extraction and determined by GC/MS.	20 mg/kg

The explanation of Chromium VI (Cr⁶⁺) analysis result (For Metal)

Colorimetric result	Qualitative result	Explanation
$< 0.10 \mu\text{g}/\text{cm}^2$	Negative	The result of sample is negative for Cr (VI). The sample coating is considered a non-Cr(VI) based coating.
$\geq 0.10 \mu\text{g}/\text{cm}^2$ and $\leq 0.13 \mu\text{g}/\text{cm}^2$	Inconclusive	The result of sample is considered to be inconclusive. If addition samples are available, recommend to add trials and get the average result for the final determination.
$> 0.13 \mu\text{g}/\text{cm}^2$	Positive	The result of sample is positive for Cr(VI). The sample coating is considered to contain Cr(VI). A result expresses as positive, while not an actual value, which indicates a visual observation was used.



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(E) RoHS requirements

Restricted substances	Limits
Cadmium (Cd)	0.01% (100 ppm)
Lead (Pb)	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)

The above limits were quoted from Restricted Substances Content Requirement in Regulation 3(1) of the The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012 No. 3032)

Tested Components:

- (1) Silver color metal (case of USB plug).
- (2) Translucent black plastic (USB plug cover).
- (3) White body with black printing with silver color metal (SMD resistor).
- (4) Black body with silver color metal (SMD transistor).
- (5) Transparent/ white body (SMD LED).
- (6) Solder (on PCB).
- (7) Light green/ brown fibre board (PCB).
- (8) White plastic (housing slot/housing).
- (9) Silver color metal (pin of housing slot).
- (10) Black plastic with white coating (screwdriver, controller).
- (11) Silver color metal (screwdriver).
- (12) Silver color metal (battery spring).
- (13) Silver color metal (battery contact plate).
- (14) Solder (on contact plate).
- (15) Silver color metal (screw).
- (16) Silver color body (SMD oscillator).
- (17) Black body with silver color metal (SMD IC).
- (18) Light brown body with silver color metal (SMD capacitor).
- (19) Grey body with silver color metal (SMD capacitor).
- (20) White body with silver color metal (SMD capacitor).
- (21) Green/ brown fibre board (PCB).
- (22) Red plastic (wire insulator).
- (23) Black plastic (wire insulator).
- (24) Copper color metal (wire).
- (25) Transparent plastic (cover of antenna).
- (26) Silver color metal (antenna).
- (27) Transparent red plastic (LED).
- (28) Translucent plastic (holder of LED).
- (29) Silver color metal (lead of LED).
- (30) Silver color metal (frame of tactile switch).
- (31) Black plastic (button and case of tactile switch).
- (32) Silver color metal (contact plate of tactile switch).
- (33) Silver color metal (lead of tactile switch).



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- (34) Silver color metal (frame of slide switch).
- (35) Black plastic (switch of slide switch).
- (36) Dull silver color metal (spring of slide switch).
- (37) Silver color metal (contact plate of slide switch).
- (38) Light brown fibre board (PCB of slide switch).
- (39) Silver color metal (lead of slide switch).
- (40) Black plastic (case of buzzer).
- (41) Silver color metal (thick contact plate of buzzer).
- (42) Silver color metal (thin contact plate of buzzer).
- (43) Dark grey metal (magnet of buzzer).
- (44) Silver color metal (coil holder of buzzer).
- (45) Copper color metal (coil of buzzer).
- (46) Green fibre board (PCB of buzzer).
- (47) Light green plastic (case of variable resistor).
- (48) Brown fibre board (PCB of variable resistor).
- (49) Silver color metal (contact plate of variable resistor).
- (50) Off white plastic (contact plate holder of variable resistor).
- (51) Silver color metal (lead of variable resistor).
- (52) Silver color metal (case of direction control switch).
- (53) Silver color metal (rod of direction control switch).
- (54) Silver color metal (rivet of direction control switch).
- (55) Off white plastic (rod holder of direction control switch).
- (56) Light ivory plastic (rod holder of direction control switch).
- (57) Grey plastic (rod holder of direction control switch).
- (58) Silver grey metal (rod holder of direction control switch).
- (59) Dull silver color metal (spring of direction control switch).
- (60) Light green plastic (spring holder of direction control switch).
- (61) Silver color metal (terminal of housing).
- (62) Black foam with printings (plane).
- (63) Black plated metal (screw).
- (64) Yellow plastic with black coating (battery case of plane).
- (65) Transparent blue plastic (LED).
- (66) Transparent green plastic (LED).
- (67) Blue plastic (thin wire insulator).
- (68) White plastic (thin wire insulator).
- (69) Light red plastic (thin wire insulator).
- (70) Black plastic (thin wire insulator).
- (71) Silver color metal (wire).
- (72) Paper label with plastic film (sticker).
- (73) Black body with silver color metal (flat SMD IC).
- (74) Green fibre board (PCB).
- (75) Silver color metal (frame of slide switch with clip).
- (76) Black plastic (switch of slide switch with clip).
- (77) Silver color metal (contact plate of slide switch with clip).
- (78) Light brown fibre board (PCB of slide switch with clip).
- (79) Silver color metal (lead of slide switch with clip).
- (80) Off white plastic (cap of white motor).
- (81) Silver color metal (contact plate of white motor).
- (82) Silver color metal (case of white motor).
- (83) Silver color metal (tube of white motor).
- (84) Light copper color metal (washer of white motor).
- (85) Silver color metal (magnet of white motor).
- (86) Silver color metal (commutator case of white motor).
- (87) Translucent black plastic with silver color printing (commutator of white motor).
- (88) Copper color metal (coil of white motor).
- (89) Silver color metal (axle of white motor).



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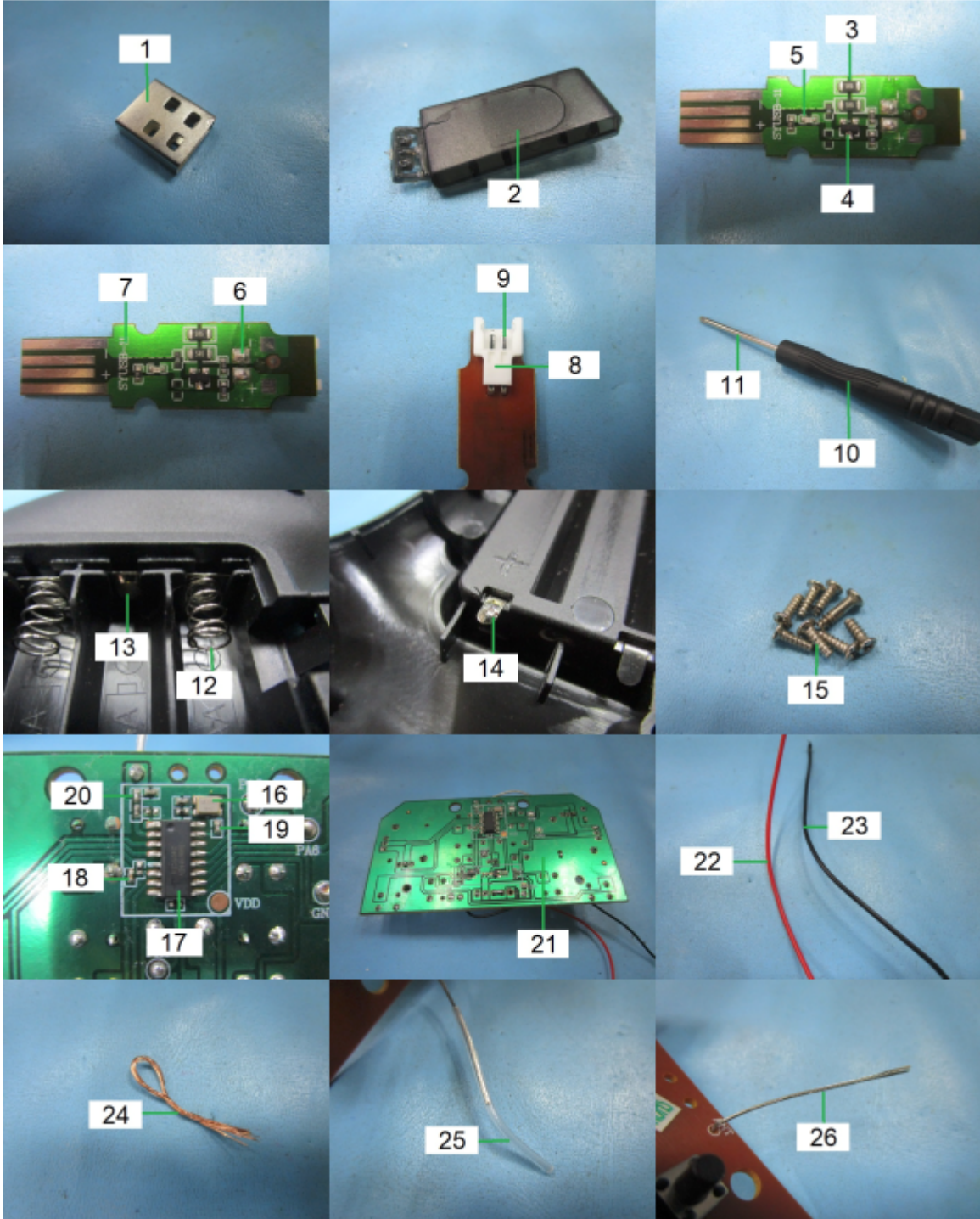
- (90) Grey plastic (cap of grey motor).
- (91) Silver color metal (contact plate of grey motor).
- (92) Silver color metal (case of grey motor).
- (93) Silver color metal (tube of grey motor).
- (94) Gold color metal (washer of grey motor).
- (95) Silver color metal (magnet of grey motor).
- (96) Silver color metal (commutator case of grey motor).
- (97) Translucent yellow plastic with silver color printing (commutator of grey motor).
- (98) Copper color metal (coil of grey motor).
- (99) Silver color metal (axle of grey motor).



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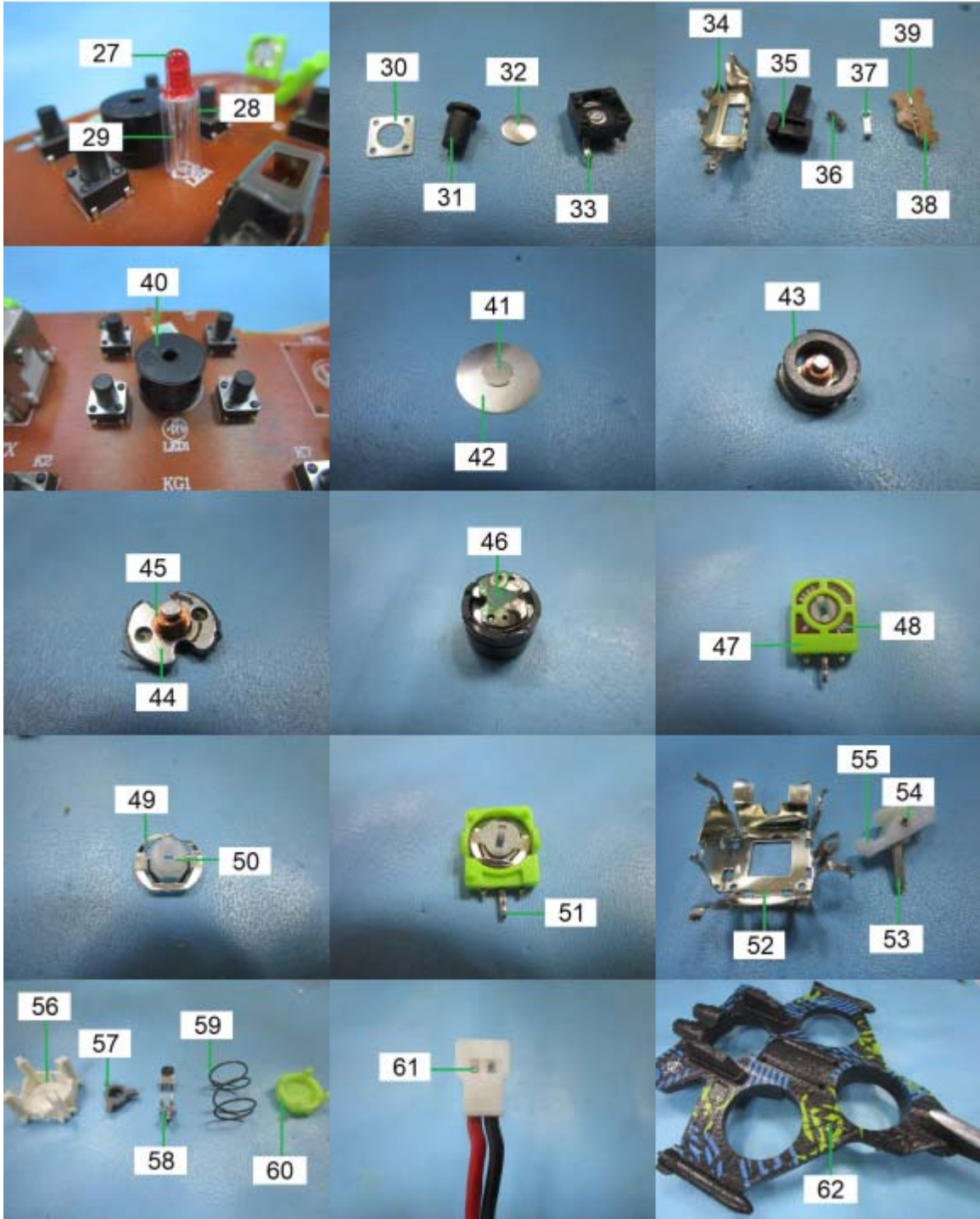
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TESTED COMPONENTS PHOTOS OF HJ03229866



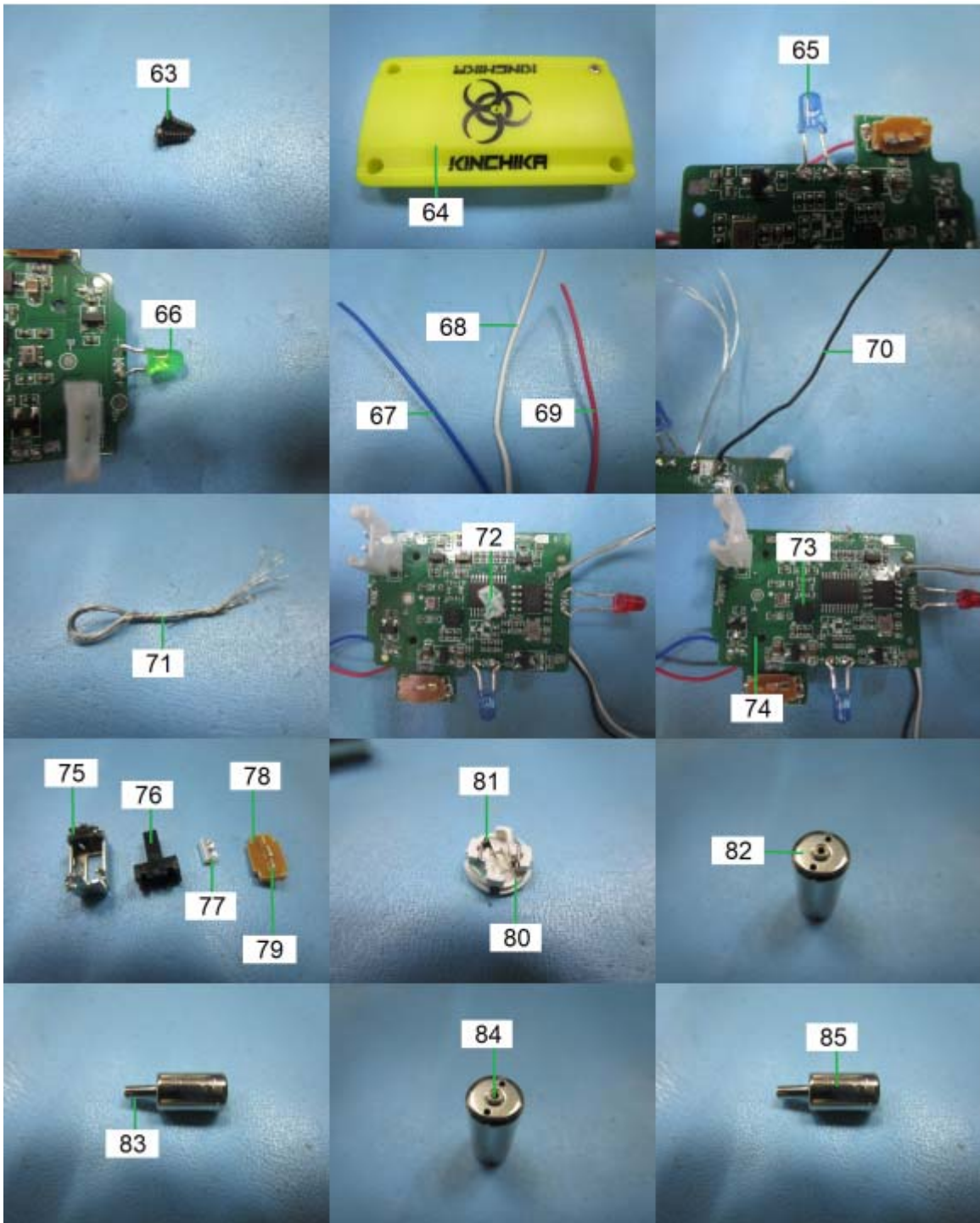
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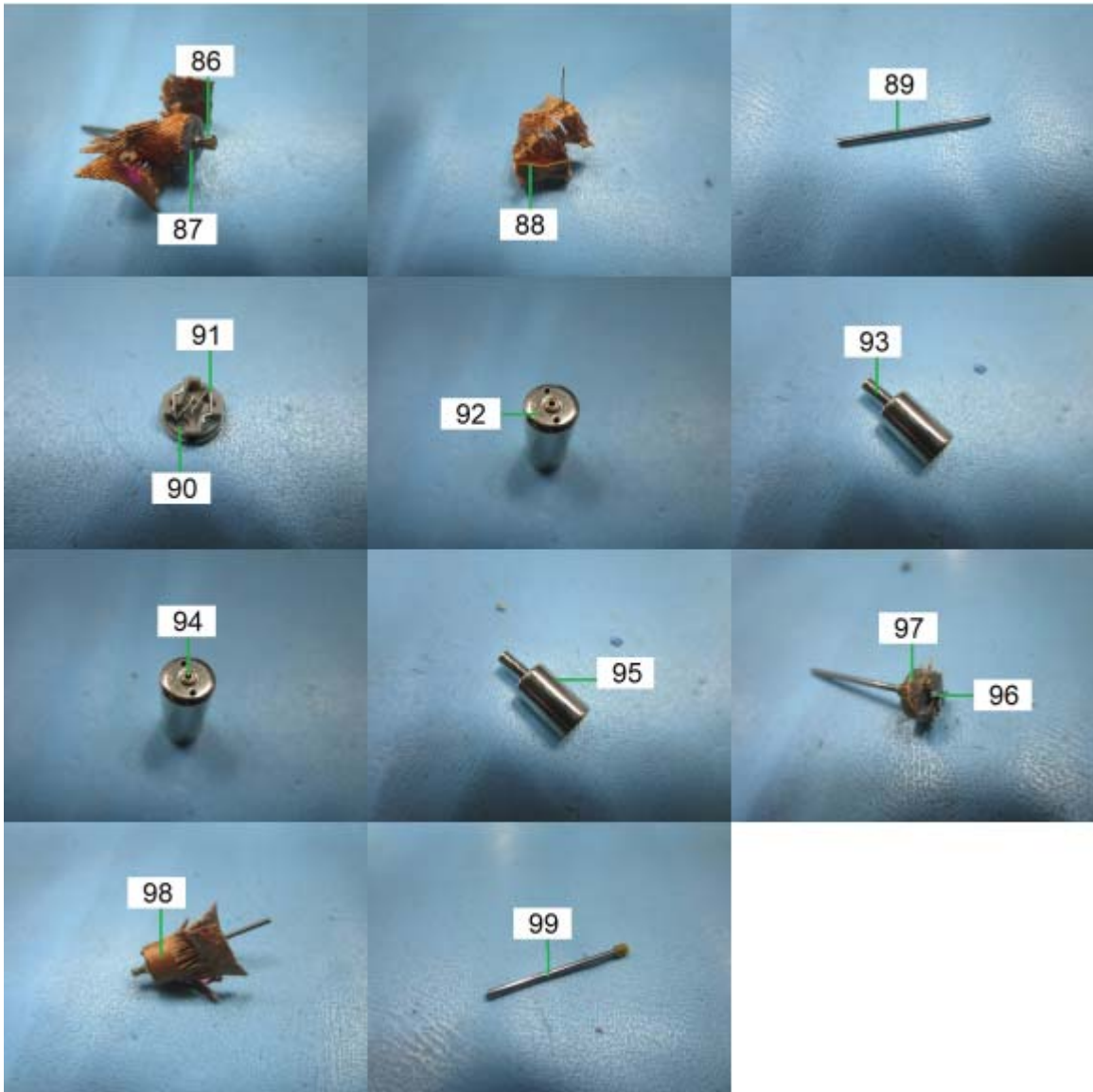
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(22) Phthalate Content Test

Test Method : BS EN 62321-8:2017, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (%, w/w)			Limit (%, w/w)
	(1)	(2/3/4)	(5/6/7)	
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(8/9)	(10/11/12)	(13/14/15)	
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(16/17/18)	(19)	(20)	
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(21)	(22)	(23)	
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)		Limit (%, w/w)
	(24/25/26)	(27)	
Diisobutyl phthalate (DIBP)	<0.01	<0.01	0.1

The above limits were quoted from The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012 No. 3032) as amended, Regulation 3(1) on restricted substances content in homogeneous materials.



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Tested Components:

- (1) White/ black coatings on plastic (remote control, plane).
- (2) Black plastic (remote control case).
- (3) Transparent red plastic (LED).
- (4) Black foam with silver color/ blue/ yellow printings (plane).
- (5) Blue plastic (battery case, motor holder).
- (6) Light blue plastic (blade).
- (7) Yellow plastic (battery case, motor holder).
- (8) Light yellow plastic (blade).
- (9) Transparent black plastic (USB adaptor case).
- (10) Black plastic (wire covering) (internal).
- (11) Red plastic (wire covering) (internal).
- (12) Transparent plastic (antenna) (internal).
- (13) Green printed brown PCB (PCB) (internal).
- (14) Transparent plastic (LED holder) (internal).
- (15) Black plastic (tactile switch, slide switch) (internal).
- (16) Brown PCB (PCB of slide switch) (internal).
- (17) White plastic (wire covering) (internal).
- (18) Blue plastic (wire covering) (internal).
- (19) Plastic part of buzzer (internal).
- (20) Plastic part of variable resistor (internal).
- (21) Plastic part of direction switch (internal).
- (22) Plastic part of grey motor (internal).
- (23) Plastic part of white motor (internal).
- (24) Transparent blue plastic (LED) (internal).
- (25) Transparent green plastic (LED) (internal).
- (26) Green PCB (PCB) (internal).
- (27) Snow white plastic (connector) (internal).

Date sample received : Mar 07, 2025

Test Period : Mar 07, 2025 to Mar 14, 2025



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End of report

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