



**BUREAU
VERITAS**

CONSUMER PRODUCTS SERVICES DIVISION

PURE TOY LIMITED

Technical Report: (9320)185-0971 REVISED^{2ND}
Date Received: Jul 03, 2020
Date Modified: Aug 06, 2020
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Aug 10, 2020
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SCOOBY XU

PURE TOY LIMITED
CHENGHUA TOYS INDUSTRIAL ZONE,
CHENGHAI, SHANTOU, GUANGDONG,
515800, CHINA

PASS

Sample Description:	2.4G RC DRONE	Sample Size:	4 SET
Vendor:	N/A	Style No(s):	SEE ATTACHMENT
Manufacturer:	N/A	SKN/SKU No.:	N/A
Buyer:	N/A	PO#:	N/A
Labeled Age Grade:	14+	Ref #:	N/A
Appropriate Age Grade:	NOT REQUEST	Country of Origin:	CHINA
Client Specified Age Grade:	8+	Country of	EU
		Destination:	
Tested Age Grade:	OVER 8 YEARS OF AGE	Assortment No.:	N/A
UPC Code:	N/A	Item#:	N/A

EXECUTIVE SUMMARY:

The sample(s) MEET the following requirement:

- The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1: 2014+A1:2018, clauses 1-7.
- The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2011+A1:2014.
- The migration of certain elements requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2019.
- The total cadmium content requirement of Regulation (EC) No. 1907/2006 Annex XVII, Entry 23, Point 1(a).
- Polycyclic Aromatic Hydrocarbons (PAHs) Content - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII with its Latest Amendments, Entry 50, Point 6.
- European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).
- The DNOP, DINP and DIDP content requirement(s) of the European Parliament and Council Regulation (EC) No. 1907/2006 of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII Restrictions on the Manufacture, placing on the Market and Use of Certain Dangerous Substances, Mixtures and Articles, Entry 52.

Bureau Veritas Consumer Products Services

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C/N ZJL/PX

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The sample(s) MEET the following requirement:

- The BBP, DBP DEHP and DIBP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 51 (amended up to EU No. 2018/2005).
- The classification in accordance with standard IEC 60825-1.
- The requirements of the tested clauses of the European Standard EN 62115: 2005 + A2: 2011 + A11: 2012 + A12: 2015, "Electric toys - Safety"

Compliance with this standard is also on condition that the toy complies with EN71 Standard

Note: The submitted sample incorporating lasers or light emitting diodes (LED), compliance with the standard covered by this report is on condition that the lasers or light emitting diodes in toys are classified as Class 1 in accordance with IEC 60825-1 Standard under the condition specified in Annex E of EN 62115 / IEC 62115.

Note: For battery charger, compliance with the standard covered by this report is on condition that the transformer complies with the IEC 60335-2-29 Standard.

Note: Components shall comply with the safety requirements specified in the relevant IEC standards as far as they reasonably apply as specified in clause 16.1

Note: At the request of the client, the sample(s) were evaluated for use by children over 8 years of age.

Note: Per client's request, package photo(s) were not attached.

Note: There is only one EU company name and address present on the sample. It has to be noted that, according to TSD 2009/48/EC, If the manufacturer (declaring himself as manufacturer by establishing and signing the EC declaration of conformity) is outside the community and the products are placed on the EU market by an importer, the toy will bear two company name and addresses: the one of the manufacturer and the one of the importer.

Note: The manufacturer / importer information was present on the packaging only. It has to be noted that, according to TSD 2009/48/EC, the manufacturers/ importer shall indicate their name, registered trade name or registered trade mark and the address at which they can be contacted on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy.

Note: The product identification is present on the packaging only. It has to be noted that, according to TSD 2009/48/EC, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or, where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

Note: The test of EN62115, IEC 60825-1 and EN71 Part 1 were subcontracted to BVCPS Shenzhen, and Shenzhen's report number is: (8520)188-0349.

Note: Per client's request, the samples in the last 3 photos are only for exhibition, they were not conducted the actual test in this report.

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PURE TOY LIMITED
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ATTACHMENT:

Style no.(s):

S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12,S13,S14,S15,S16,S17,S18,S19,S20,S21,S22,S23,S24,S25,S26,S27,S28,S29,S30,S31,S32,S33,S34,S35,S36,S37,S38,S39,S40,S41,S42,S43,
S44,S45,S46,S47,S48,S49,S50,S51,S52,S53,S54,S55,S56,S57,S58,S59,S60,S61,S62,S63,
S64,S65,S66,S67,S68,S69,S1-GPS,S1-W,S1-M,S2-W,S4-W,S9-W,S16A,S16B,S20-GPS,
S21A,S21B,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,
819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,
840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,301T,303T,702T,703,707,709,737,601,602,603,604,605,606,607,608,609,610,611, 612, **208001, 001**



RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the EN71: Part 1 : 2014 +A1:2018, CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age Determination Guidelines prepared by Technical Committee CEN/TC 52 and Age Grade Determination Guidelines of the Consumer Product Safety Commission (CPSC).	
Note :	The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.
Note :	If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2 & 6

Symbol	Explanation				
NM	The sample(s) DOES NOT MEET the requirement of this Subclause				
M	The sample(s) MEET the requirement of this Subclause				
N/A	Not Applicable				
NR	Not Requested				
NE	Not Evaluated				
NT	Not Tested				
NP	None Present				
P	Present				
R	Refer to Comment Section of this report				
Symbol	Language Present	Symbol	Language Present	Symbol	Language Present
B	Belgian language	G	German language	PR	Portuguese language
D	Danish language	GR	Greek language	S	Spanish language
E	English language	H	Dutch language	SD	Swedish language
F	Finnish language	I	Italian language	SZ	Swiss language
FR	French language	N	Norwegian language		



RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1 – 2018)**

Subclause	Requirement	Result
4.1	Material cleanliness	M
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 & 7.6	Edges	M
4.8 & 7.6	Points and metallic wires	M
4.8e	Splinters	M
4.9	Protruding parts	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	M
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2 & 7.8	Masks and helmets	NA
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	NA
4.15.1.3	Toys propelled by child – Strength	NA
4.15.1.4	Toys propelled by child – Stability	NA
4.15.1.5	Toys propelled by child – Braking	NA
4.15.1.6	Toys propelled by child - Transmission	NA
4.15.1.7	Toys propelled by child – insertion mark	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	NA
4.15.2.3	Toy bicycles – Braking	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by child	NA
4.15.5 & 7.18	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17.2	All projectiles	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.26	Certain projectiles toys without stored energy	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA



RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1 – 2018)**

Subclause	Requirement	Result
4.19 & 7.13 & 7.14	Percussion caps	NA
4.20.2.1-4.20.2.8, 4.20.2.10, 4.20.2.12	Acoustics	M
4.20.2.9, 4.20.2.11 & 7.14	Acoustics – percussion toys & cap-firing toys	NA
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	NA
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27.1	Flying toys – General	M
4.27.2 & 7.25.1	Rotors and propellers on flying toys	NA
4.27.3 & 7.25.2	Rotors and propellers on remote controlled flying toys	M
FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS		
5.1	General	NA
5.1a	Small parts – as received	NA
5.1b	Small parts, sharp points, sharp edges – after tests	NA
5.1c	Cross section <2mm metal points & wires	NA
5.1e	Toys contain glue	NA
5.1f	Casing of toys	NA
5.2	Fillings, coverings and seams	NA
5.3	Adhesion of plastic sheeting	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA
5.4.3 & 7.22	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA
5.4.4	Fixed loops, tangled loops and nooses	NA
5.4.5	Cords and chains on pull along toys	NA
5.4.6 & 7.21	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9 & 7.11 & 7.23	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.5 & 7.12	Liquid filled toys	NA
5.6	Electrically driven toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size	NA



RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1 – 2018)**

Subclause	Requirement	Result
5.9 & 7.17	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 & 7.24	Sledges with cords for pulling	NA
6	Packaging	NA
WARNINGS, INSTRUCTIONS FOR USE		
7.1	General	M
7.2	Toys not intended for children under 36 months	NA
7.5	Functional toys	NA

2009/48/EC GENERAL LABELING REQUIREMENT

Requirement	Result
CE Mark	M
Manufacturer/ Importer name and address	M
Product Identification	M

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section



REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.3	8.25.1	4.15.1.5	8.26.1	4.22	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32	5.4.5	8.40
4.5	8.5, 8.7, 8.11, 8.12	4.15.1.8	8.29	4.23	8.2, 8.3, 8.4.2.1, 8.4.2.2, 8.5, 8.6, 8.7, 8.8, 8.34, 8.35	5.4.6	8.40
4.6	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14	4.15.2.4	8.26.2	4.24	8.37	5.4.7	8.20
4.7	8.11	4.15.3	8.21, 8.23.1	4.25	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1	5.7.8	8.39
4.8	8.12, 8.13	4.15.4	8.21, 8.23.1	4.26	8.38	5.5	8.15
4.9	8.4.2.3, 8.11, 8.12	4.15.5	8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27	4.27.1	8.43	5.6	8.29
4.10.1	8.18.2, 8.18.3	4.16	8.23.2	4.27.2	8.4.2.6	5.8	8.16
4.10.2	8.5, 8.6, 8.7, 8.11, 8.12	4.17.1	8.3, 8.4.2.1, 8.7, 8.8, 8.42	4.27.3	8.4.2.6	5.10	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32
4.11	8.2, 8.3, 8.4.2.1, 8.9, 8.17	4.17.2	8.3, 8.4.2.4, 8.7, 8.8, 8.32.1, 8.43, 8.44	5.1	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12	5.11	8.33
4.13	8.19	4.17.3	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.3	8.4.2.1, 8.25	5.12	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9,
4.14.1	8.31.1, 8.31.2	4.17.4	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.4.1	8.40	5.13	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32
4.14.2	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12	4.18	8.2, 8.3, 8.4.2.1	5.4.2	8.38, 8.40, 8.41	5.14	8.38
4.15.1.3	8.11, 8.12, 8.21, 8.22	4.20	8.28	5.4.3	8.38, 8.40, 8.41	6	8.3, 8.4.2.1, 8.25.1, 8.32.1
4.15.1.4	8.23.1	4.21	8.30	5.4.4	8.36, 8.38		



FLAMMABILITY (EN 71 PART 2: 2011 + A1: 2014)

Subclause	Requirement	Result
4.1	Cellulose nitrate	NP
4.1	Surface flash on a piled surface	NA
*4.1	Flammable gases	NA
*4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by a child	NA
4.4	warning on product and packaging (10 - 30 mm/s)	NA
4.5	Soft-filled toys	NA

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.2.2	5.2	4.2.4	5.3	4.3	5.4	4.5	5.5
4.2.3	5.3	4.2.5	5.4	4.4	5.4	-	-

Remark:

ISE= Ignited but Self-Extinguished;

"0" in rate of spread of flame = the sample fails to ignite and if the first thread is not severed

L = Lengthwise

W =Widthwise



RESULTS:

Heavy Metals and Flame Retardants Content - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments

Test Method : See Appendix.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A23	Silvery metal (small screw of remote control of sample A/ B)	/	/
A24	Silvery metal (wide screw of remote control of sample A/ B)	/	/
A59	Black metal (spring of button of remote control of sample A/ B)	/	/
A74	Silvery metal (case of rocker of remote control of sample A/ B)	/	/
A75	Silvery metal (axle of rocker of remote control of sample A/ B)	/	/
A84	Silvery metal (screw of drone of sample A/ B)	/	/
A85	Silvery metal (screw of drone of sample A/ B)	/	/
A86	Silvery metal (screw of drone of sample A/ B)	/	/
A87	Silvery metal (axle of drone of sample A/ B)	/	/
A88	Silvery metal (axle of drone of sample A/ B)	/	/
A90	Silvery metal (plug of battery of drone of sample A/ B)	/	/
A133	Silvery magnet (motor of drone of sample A/ B)	/	/
A135	Silvery metal (axle of motor of drone of sample A/ B)	/	/

See Analytes (Parameter) and their corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Metallic material
	Type II	Glass or ceramic material
	Type III	Other non-metallic material except Type II

-	Req.	Result				
Test Item(s)	-	A23	A24	A59	A74	A75
Type	I	I	I	I	I	I
Parameter	-	-	-	-	-	-
Chromium VI (Cr VI)	Negative	Negative	Negative	Negative	Negative	Negative
Conclusion	-	PASS	PASS	PASS	PASS	PASS



-	Req.	Result				
Test Item(s)	-	A84	A85	A86	A87	A88
Type	I	I	I	I	I	I
Parameter	-	-	-	-	-	-
Chromium VI (Cr VI)	Negative	Negative	Negative	Negative	Negative	Negative
Conclusion	-	PASS	PASS	PASS	PASS	PASS

-	Req.	Result		
Test Item(s)	-	A90	A133	A135
Type	I	I	I	I
Parameter	-	-	-	-
Chromium VI (Cr VI)	Negative	Negative	Negative	Negative
Conclusion	-	PASS	PASS	PASS

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A22	Silvery solder (solder of USB of sample A/ B)	/	/
A108	White soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/

-	Unit	Req.	Result	
Test Item(s)	-	-	A22	A108
Type	-	II	II	II
Parameter	-	-	-	-
Lead (Pb)	mg/kg	1000	51.9	ND
Cadmium (Cd)	mg/kg	100	ND	ND
Mercury (Hg)	mg/kg	1000	ND	ND
Conclusion	-	-	PASS	PASS

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A5	Transparent plastic (LED of drone of sample A/ B)	/	/
A9	Transparent red plastic (LED of remote control of sample A/ B)	/	/
A56	White plastic (button of remote control of sample A/ B)		
A70	Green/ black PCB (buzzer of remote control of sample A/ B)		
A110	Green/ beige PCB (small PCB of drone of sample A/ B)		
A111	Beige plastic (plug of small PCB of drone of sample A/ B)		
A119	Green PCB (PCB of drone of sample A/ B)		
A130	Black plastic (lid of motor of drone of sample A/ B)		

-	Unit	Req.	Result			
Test Item(s)	-	-	A5	A9	A56	A70
Type	-	III	III	III	III	III
Parameter	-	-	-	-	-	-
PBBs	mg/kg	1000	ND	ND	ND	ND
MonoBB	mg/kg	-	ND	ND	ND	ND



DiBB	mg/kg	-	ND	ND	ND	ND
TriBB	mg/kg	-	ND	ND	ND	ND
TetraBB	mg/kg	-	ND	ND	ND	ND
PentaBB	mg/kg	-	ND	ND	ND	ND
HexaBB	mg/kg	-	ND	ND	ND	ND
HeptaBB	mg/kg	-	ND	ND	ND	ND
OctaBB	mg/kg	-	ND	ND	ND	ND
NonaBB	mg/kg	-	ND	ND	ND	ND
DecaBB	mg/kg	-	ND	ND	ND	ND
PBDEs	mg/kg	1000	ND	ND	ND	ND
MonoBDE	mg/kg	-	ND	ND	ND	ND
DiBDE	mg/kg	-	ND	ND	ND	ND
TriBDE	mg/kg	-	ND	ND	ND	ND
TetraBDE	mg/kg	-	ND	ND	ND	ND
PentaBDE	mg/kg	-	ND	ND	ND	ND
HexaBDE	mg/kg	-	ND	ND	ND	ND
HeptaBDE	mg/kg	-	ND	ND	ND	ND
OctaBDE	mg/kg	-	ND	ND	ND	ND
NonaBDE	mg/kg	-	ND	ND	ND	ND
DecaBDE	mg/kg	-	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

-	Unit	Req.	Result			
Test Item(s)	-	-	A110	A111	A119	A130
Type	-	III	III	III	III	III
Parameter	-	-	-	-	-	-
PBBs	mg/kg	1000	ND	ND	ND	ND
MonoBB	mg/kg	-	ND	ND	ND	ND
DiBB	mg/kg	-	ND	ND	ND	ND
TriBB	mg/kg	-	ND	ND	ND	ND
TetraBB	mg/kg	-	ND	ND	ND	ND
PentaBB	mg/kg	-	ND	ND	ND	ND
HexaBB	mg/kg	-	ND	ND	ND	ND
HeptaBB	mg/kg	-	ND	ND	ND	ND
OctaBB	mg/kg	-	ND	ND	ND	ND
NonaBB	mg/kg	-	ND	ND	ND	ND
DecaBB	mg/kg	-	ND	ND	ND	ND
PBDEs	mg/kg	1000	ND	ND	ND	ND
MonoBDE	mg/kg	-	ND	ND	ND	ND
DiBDE	mg/kg	-	ND	ND	ND	ND
TriBDE	mg/kg	-	ND	ND	ND	ND
TetraBDE	mg/kg	-	ND	ND	ND	ND
PentaBDE	mg/kg	-	ND	ND	ND	ND
HexaBDE	mg/kg	-	ND	ND	ND	ND
HeptaBDE	mg/kg	-	ND	ND	ND	ND
OctaBDE	mg/kg	-	ND	ND	ND	ND
NonaBDE	mg/kg	-	ND	ND	ND	ND
DecaBDE	mg/kg	-	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

Note / Key :



ND = Not detected “>” = Greater than Req. = Requirement
 NR = Not requested mg/kg = milligram(s) per kilogram = ppm = part(s) per million
 % = percent 10 000 mg/kg = 1 %
 Detection Limit (mg/kg) :
 For Type I - Each (Pb, Cd & Hg) : 2.0
 For Type II - Each (Pb, Cd, Hg & Cr VI) : 2.0
 For Type III - Metal, Polymers & Electronics - Each (Pb, Cd, Hg & Cr VI) : 2.0; Each (PBBs & PBDEs) : 50;
 Others - Each (Pb, Cd & Hg) : 2.0; Cr VI : 3.0; Each (PBBs & PBDEs) : 50

APPENDIX

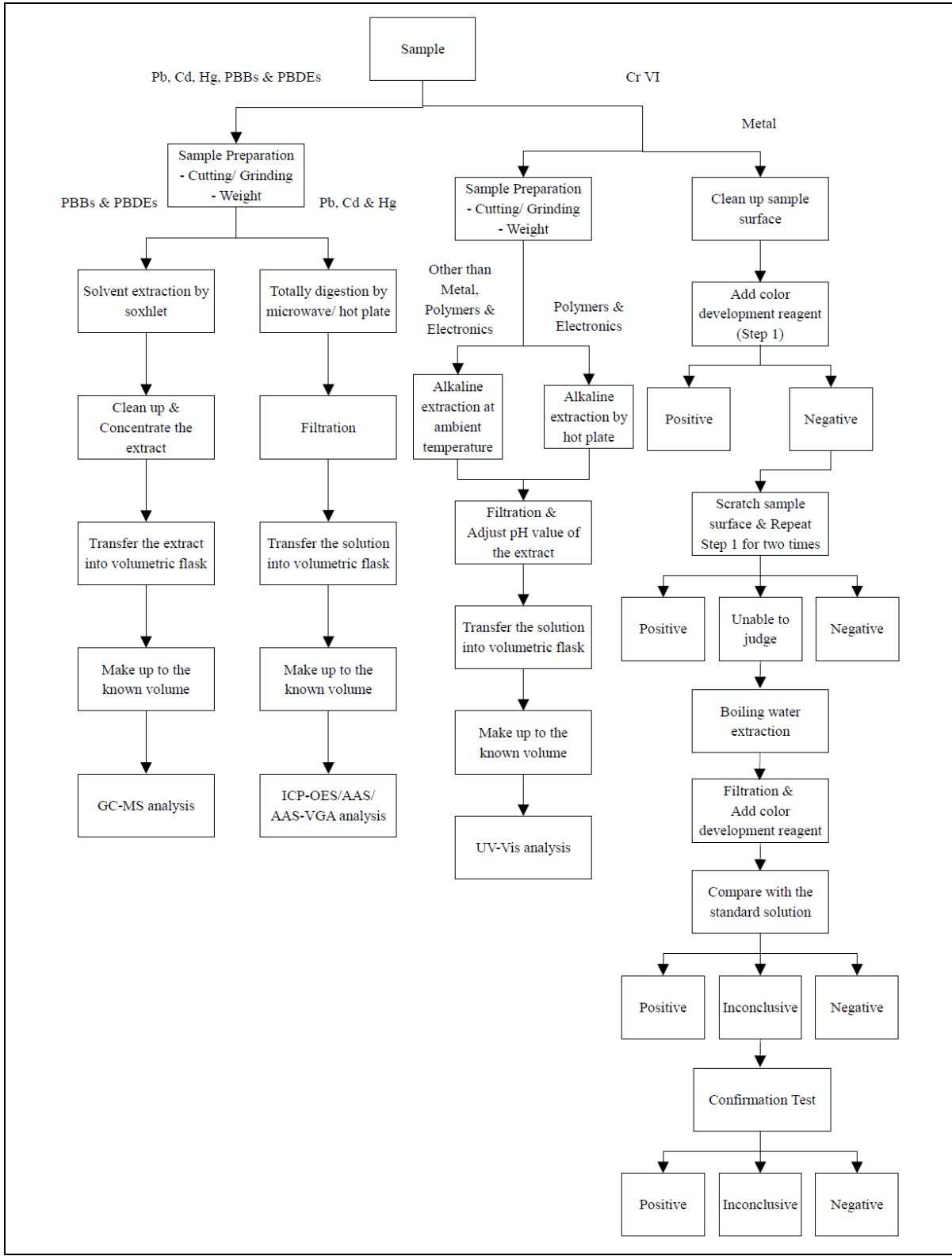
List of Analytes and their Corresponding Test Methods [European Parliament and Council Directive 2011/65/EU] :		
No.	Name of Analyte(s)	Test Method(s)
1	Lead (Pb)	With reference to International Standard IEC 62321-5: 2013.
2	Cadmium (Cd)	
3	Mercury (Hg)	With reference to International Standard IEC 62321-4: 2013.
4	Chromium VI (Cr VI)	<u>Metal</u> : With reference to International Standard IEC 62321-7-1: 2015. <u>Polymers & Electronics</u> : With reference to European Standard EN 62321: 2009, Annex C. <u>Leather</u> : International Standard ISO 17075-1: 2017 <u>Other than Metal, Polymers, Electronics & Leather</u> : With reference to International Standard ISO 17075-1: 2017
5	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	With reference to International Standard IEC 62321-6: 2015.
6	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	
IEC = International Electrotechnical Commission		



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**Test Flowchart of Heavy Metals and Flame Retardants Content
[European Parliament and Council Directive 2011/65/EU] :**





Phthalates Content - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments

Test Method : With reference to International Standard IEC 62321-8: 2017.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1+B1	Silvery/ black coating on plastic (pattern of body, fan of drone of sample A)+Silvery/ white coating on plastic (pattern of body, fan of drone of sample B)	/	/
A2+A3+A4+A5+A6+A7+A8+A9+A10+A12	Dull white plastic (body of drone, remote control of sample A, rocker, button of remote control of sample B)+White plastic (fan of drone of sample A)+Snow white plastic (undercarriage, shalf, cover of battery case of drone of sample A)+Transparent plastic (LED of drone of sample A/ B)+Black plastic (switch of drone of sample A/ B)+Transparent plastic film (cover of battery of drone of sample A/ B)+Light white plastic (gear of drone of sample A/ B)+Transparent red plastic (LED of remote control of sample A/ B)+Transparent plastic (handle of screwdriver of sample A/ B)+Black plastic (USB of sample A/ B)	/	/
A14+A15+A17+A18+A19+A34+A36+A37+A42+A43	Black plastic (plug of USB of sample A/ B)+White plastic (plug of USB of sample A/ B)+Green/ brown PCB (PCB of USB of sample A/ B)+Transparent plastic (SMD LED of USB of sample A/ B)+Black plastic (triode of USB of sample A/ B)+Green/ brown PCB (PCB of remote control of sample A/ B)(internal)+Black plastic with silvery metal (diode of PCB of remote control of sample A/ B)+Black plastic with silvery metal (triode of PCB of remote control of sample A/ B)+Black plastic with silvery metal (IC of PCB of remote control of sample A/ B)+Transparent plastic (cover of LED of remote control of sample A/ B)	/	/



A29+A31+A32	Black soft plastic (wire covering of remote control of sample A/ B)+Red soft plastic (wire covering of remote control of sample A/ B)+Transparent soft plastic (wire covering of remote control, drone of sample A/ B)	/	/
A45+A60+A61	Transparent glue (fastener of crystal of remote control of sample A/ B)+Grey printed black soft plastic (sleeve of capacitor of remote control, drone of sample A/ B)+Black soft plastic (base of capacitor of remote control, drone of sample A/ B)	/	/
A52+A55+A56+A57+A67+A70+A77+A78+A79+A80	Black plastic (button of remote control of sample A/ B)+Blue plastic (button of remote control of sample A/ B)+White plastic (button of remote control of sample A/ B)+Black plastic (button of remote control of sample A/ B)+Black plastic (buzzer of remote control of sample A/ B)+Green/ black PCB (buzzer of remote control of sample A/ B)+Dark blue plastic (rocker of remote control of sample A/ B)+Light green plastic (rocker of remote control of sample A/ B)+Green plastic (rocker of remote control of sample A/ B)+Light white plastic (rocker of remote control of sample A/ B)	/	/
A82+A89+A110+A111+A115+A119+A120+A121	Brown/ white PCB (PCB of rocker of remote control of sample A/ B)+White plastic (plug of battery, PCB of drone of sample A/ B)+Green/ beige PCB (small PCB of drone of sample A/ B)+Beige plastic (plug of small PCB of drone of sample A/ B)+Brown plastic (base of switch of drone of sample A/ B)+Green PCB (PCB of drone of sample A/ B)+Black plastic with silvery metal (triode of PCB of drone of sample A/ B)+Black plastic with silvery metal (triode of PCB of drone of sample A/ B)	/	/
A91	Black soft plastic with white printing (thick wire covering of battery, PCB of drone of sample A/ B)	/	/
A92	Light red soft plastic with white printing (thick wire covering of battery of drone of sample A/ B)	/	/



A94	Red soft plastic (thin wire covering of motor of drone of sample A/ B)	/	/
A95+A96+A97	Blue soft plastic (thin wire covering of motor of drone of sample A/ B)+Black soft plastic (thin wire covering of motor of drone of sample A/ B)+White soft plastic (thin wire covering of motor of drone of sample A/ B)	/	/
A99+A100+A102	Black soft plastic (wire covering of LED of drone of sample A/ B)+Red soft plastic (wire covering of LED of drone of sample A/ B)+Yellow soft plastic (wire covering of LED of drone of sample A/ B)	/	/
A103	Red soft plastic (thick wire covering of PCB of drone of sample A/ B)	/	/
A105	Red soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A106	Yellow soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A107	Black soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A108	White soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A124+A125+A129 +A130+A137+B2	Black plastic with silvery metal (IC of PCB of drone of sample A/ B)+Transparent plastic (SMD LED of drone of sample A/ B)+White plastic (lid of motor of drone of sample A/ B)+Black plastic (lid of motor of drone of sample A/ B)+Dull white plastic (motor of drone of sample A/ B)+Black plastic (body, fan, undercarriage, shalf of drone, body of remote control of sample B, rocker, button of remote control of sample A)	/	/

Maximum Allowable Limit :	Each of the listed phthalates : 0.1 %^[a]
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Test Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
A1+B1	ND	ND	%	PASS
A2+A3+A4+A5+A6+A7+A8+A9+A10+A12	ND	ND	%	PASS
A14+A15+A17+A18+A19+A34+A36+A37+A42+A43	ND	ND	%	PASS
A29+A31+A32	ND	ND	%	PASS
A45+A60+A61	ND	ND	%	PASS



A52+A55+A56+A57+A67+A70+A77+A78+A79+A80	ND	ND	%	PASS
A82+A89+A110+A111+A115+A119+A120+A121	ND	ND	%	PASS
A91	ND	ND	%	PASS
A92	ND	ND	%	PASS
A94	ND	ND	%	PASS
A95+A96+A97	DEHP	0.008	%	PASS
A99+A100+A102	ND	ND	%	PASS
A103	DEHP DBP	0.006 0.065	%	PASS
A105	ND	ND	%	PASS
A106	ND	ND	%	PASS
A107	ND	ND	%	PASS
A108	ND	ND	%	PASS
A124+A125+A129+A130+A137+B2	ND	ND	%	PASS

Note / Key :

ND = Not detected

">" = Greater than

Conc. = Concentration

% = percent

1 % = 10 000 mg/kg

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit (%) - Each of the listed phthalates : 0.005

APPENDIX

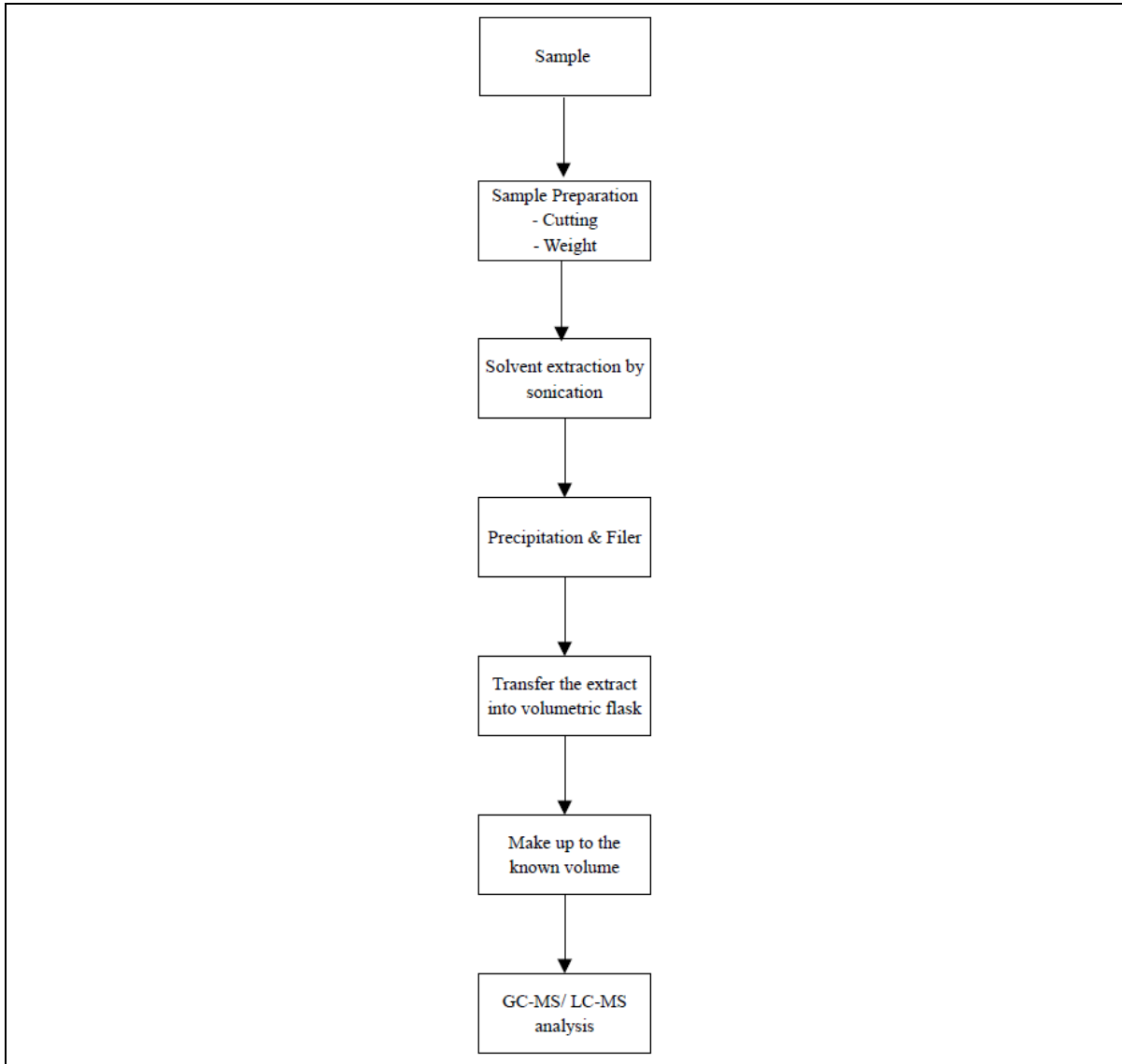
List of Phthalates [European Parliament and Council Directive 2011/65/EU] :

No.	Name of Analyte(s)	CAS-No.	No.	Name of Analyte(s)	CAS-No.
1	Butyl benzyl phthalate (BBP)	85-68-7	3	Di-2-ethylhexyl phthalate (Bis (2-ethylhexyl) phthalate) (DEHP)	117-81-7
2	Di-n-butyl phthalate (Dibutyl phthalate) (DBP)	84-74-2	4	Di-iso-butyl phthalate (Diisobutyl phthalate) (DIBP)	84-69-5

CAS-No. = Chemical Abstracts Service registry number

Test Flowchart of Phthalates Content [European Parliament and Council Directive 2011/65/EU] :

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Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment

Test Method : European Standard EN 71 Part 3: 2019, Section 8.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1	Silvery/ black coating on plastic (pattern of body, fan of drone of sample A)	/	/
A2	Dull white plastic (body of drone, remote control of sample A, rocker, button of remote control of sample B)	/	/
A3	White plastic (fan of drone of sample A)	/	/
A4	Snow white plastic (undercarriage, shalf, cover of battery case of drone of sample A)	/	/
A5	Transparent plastic (LED of drone of sample A/ B)	/	/
A6	Black plastic (switch of drone of sample A/ B)	/	/
A7	Transparent plastic film (cover of battery of drone of sample A/ B)	/	/
A8	Light white plastic (gear of drone of sample A/ B)	/	/
A9	Transparent red plastic (LED of remote control of sample A/ B)	/	/
B1	Silvery/ white coating on plastic (pattern of body, fan of drone of sample B)	/	/
B2	Black plastic (body, fan, undercarriage, shalf of drone, body of remote control of sample B, rocker, button of remote control of sample A)	/	/

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Dry, brittle, powder-like or pliable toy material
	Type II	Liquid or sticky toy material
	Type III	Scraped-off toy material

-	Unit	Req.	Result				
Test Item(s)	-	-	A1	A2	A3	A4	A5
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-	-
Aluminium (Al)	mg/kg	70000	ND	ND	ND	ND	ND
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND



Chromium III (Cr III)	mg/kg	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	ND	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Req.	Result				
Test Item(s)	-	-	A6	A7	A8	A9	B1
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-	-
Aluminium (Al)	mg/kg	70000	ND	ND	ND	ND	ND
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	ND	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Req.	Result
Test Item(s)	-	-	B2
Type	-	III	III
Parameter	-	-	-
Mass of Trace Amount	g	-	-
Aluminium (Al)	mg/kg	70000	ND
Antimony (Sb)	mg/kg	560	ND
Arsenic (As)	mg/kg	47	ND
Barium (Ba)	mg/kg	18750	ND
Boron (B)	mg/kg	15000	ND



Cadmium (Cd)	mg/kg	17	ND
Chromium III (Cr III)	mg/kg	460	ND
Chromium VI (Cr VI)	mg/kg	0.053	ND
Cobalt (Co)	mg/kg	130	ND
Copper (Cu)	mg/kg	7700	ND
Lead (Pb)	mg/kg	23	ND
Manganese (Mn)	mg/kg	15000	ND
Mercury (Hg)	mg/kg	94	ND
Nickel (Ni)	mg/kg	930	ND
Selenium (Se)	mg/kg	460	ND
Strontium (Sr)	mg/kg	56000	ND
Tin (Sn)	mg/kg	180000	ND
Organic tin	mg/kg	12	ND
Zinc (Zn)	mg/kg	46000	ND
Conclusion	-	-	PASS

Note / Key :

ND = Not detected “>” = Greater than Req. = Requirement
NR = Not requested g = gram(s) INCON. = Inconclusive
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
[] = Detection Limit by test method with reference to EN 71 Part 3: 2019, Annex F
{ } = Detection Limit by test method with reference to EN 71 Part 3: 2019, Annex G
Detection Limit (mg/kg) :
For Type I - Al : 562.5 ; Sb : 4.5 ; As : 0.38 ; Ba : 150 ; B : 120 ; Cd : 0.13 ; Cr III : 3.75 ; Cr VI : 0.005 [0.002] ;
Co : 1.05 ; Cu : 62.25 ; Pb : 0.2 ; Mn : 120 ; Hg : 0.75 ; Ni : 7.5 ; Se : 3.75 ; Sr : 450 ; Sn : 1 500 ;
Organic tin : 0.09 {0.02} ; Zn : 375
For Type II - Al : 140.6 ; Sb : 1.13 ; As : 0.09 ; Ba : 37.5 ; B : 30 ; Cd : 0.03 ; Cr III : 0.94 ; Cr VI : 0.005
[0.002] ; Co : 0.26 ; Cu : 15.6 ; Pb : 0.05 ; Mn : 30 ; Hg : 0.19 ; Ni : 1.88 ; Se : 0.94 ; Sr : 112.5 ; Sn : 375 ;
Organic tin : 0.02 {0.02} ; Zn : 93.8
For Type III - Al : 7 000 ; Sb : 56 ; As : 4.7 ; Ba : 1 875 ; B : 1 500 ; Cd : 1.7 ; Cr III : 46 ; Cr VI : 0.005
[0.002] ; Co : 13 ; Cu : 770 ; Pb : 2.3 ; Mn : 1 500 ; Hg : 9.4 ; Ni : 93 ; Se : 46 ; Sr : 5 600 ; Sn : 18 000 ;
Organic tin : 1.2 {2} ; Zn : 4 600

Remark :

- Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further verified.
- Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.
- The European Commission amended the maximum allowable limit(s) of migratable aluminium of European Parliament and Council Directive 2009/48/EC in particular regarding to Annex II, Part III, Point 13. See details in Comment.
- The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.
- The received sample(s) contained accessible component(s) of less than 10 milligrams by weight on one single sample, therefore such component(s) was (were) not subject to migration of certain elements of European Standard, "Safety of Toys, EN 71 Part 3: 2019", as specified in Section 7.1 - Selection of test portions.
- # denotes as result(s) was (were) verified by:
For organic tin content - test method with reference to European Standard EN 71 Part 3: 2019, Annex G and reported as tributyltin (TBT) cation.
For Cr VI content - test method with reference to European Standard EN 71 Part 3: 2019, Annex F.
- The conclusion(s) of Test Item(s) may be affected after European Commission Directive (EU) 2019/1922 of 18 November 2019 amending, for the purposes of adaptation to technical and scientific developments, point 13 of part III of Annex II to Directive 2009/48/EC of the European Parliament and of the Council on the safety of toys, as regards aluminium become effective.
- Test Item(s) was (were) de-waxed by iso-octane before testing.

Comment :



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Latest amendment of European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 :			
-	Type I	Type II	Type III
Element(s)	Aluminium (Al)	Aluminium (Al)	Aluminium (Al)
Current	5 625 mg/kg	1 406 mg/kg	70 000 mg/kg
Amended^[a]	2 250 mg/kg	560 mg/kg	28 130 mg/kg

^[a] denotes as these maximum allowable limits apply from May 20, 2021 according to European Commission Directive (EU) 2019/1922 of 18 November 2019 amending, for the purposes of adaptation to technical and scientific developments, point 13 of part III of Annex II to Directive 2009/48/EC of the European Parliament and of the Council on the Safety of Toys, as regards aluminium.



Total Cadmium Content - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with its Latest Amendment, Annex XVII, Entry 23

Test Method : U. S. CPSC-CH-E1003-09.1 (February 25, 2011), U. S. CPSC Test Method CPSC-CH-E1001-08.3 (November 15, 2012) or U. S. CPSC Test Method CPSC-CH-E1002-08.3 (November 15, 2012).

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1+B1	Silvery/ black coating on plastic (pattern of body, fan of drone of sample A)+Silvery/ white coating on plastic (pattern of body, fan of drone of sample B)	/	/
A2+A3+A4	Dull white plastic (body of drone, remote control of sample A, rocker, button of remote control of sample B)+White plastic (fan of drone of sample A)+Snow white plastic (undercarriage, shalf, cover of battery case of drone of sample A)	/	/
A5+A6+A7	Transparent plastic (LED of drone of sample A/ B)+Black plastic (switch of drone of sample A/ B)+Transparent plastic film (cover of battery of drone of sample A/ B)	/	/
A8+A9+B2	Light white plastic (gear of drone of sample A/ B)+Transparent red plastic (LED of remote control of sample A/ B)+Black plastic (body, fan, undercarriage, shalf of drone, body of remote control of sample B, rocker, button of remote control of sample A)	/	/
A10+A12+A14	Transparent plastic (handle of screwdriver of sample A/ B)+Black plastic (USB of sample A/ B)+Black plastic (plug of USB of sample A/ B)	/	/
A15+A18+A19	White plastic (plug of USB of sample A/ B)+Transparent plastic (SMD LED of USB of sample A/ B)+Black plastic (triode of USB of sample A/ B)	/	/
A17+A34+A70	Green/ brown PCB (PCB of USB of sample A/ B)+Green/ brown PCB (PCB of remote control of sample A/ B)(internal)+Green/ black PCB (buzzer of remote control of sample A/ B)	/	/
A29+A31+A32	Black soft plastic (wire covering of remote control of sample A/ B)+Red soft plastic (wire covering of remote control of sample A/ B)+Transparent soft plastic (wire covering of remote control, drone of sample A/ B)	/	/
A36+A37+A42	Black plastic with silvery metal (diode of PCB of remote control of sample A/ B)+Black plastic with silvery metal (triode of PCB of remote control of sample A/ B)+Black plastic with silvery metal (IC of PCB of remote control of sample A/ B)	/	/
A43+A45+A52	Transparent plastic (cover of LED of remote control of sample A/ B)+Transparent glue (fastener of crystal of remote control of sample A/ B)+Black plastic (button of remote control of sample A/ B)	/	/



A55+A56+A57	Blue plastic (button of remote control of sample A/ B)+White plastic (button of remote control of sample A/ B)+Black plastic (button of remote control of sample A/ B)	/	/
A60+A61+A67	Grey printed black soft plastic (sleeve of capacitor of remote control, drone of sample A/ B)+Black soft plastic (base of capacitor of remote control, drone of sample A/ B)+Black plastic (buzzer of remote control of sample A/ B)	/	/
A77+A78+A79	Dark blue plastic (rocker of remote control of sample A/ B)+Light green plastic (rocker of remote control of sample A/ B)+Green plastic (rocker of remote control of sample A/ B)	/	/
A80+A89	Light white plastic (rocker of remote control of sample A/ B)+White plastic (plug of battery, PCB of drone of sample A/ B)	/	/
A82+A110+A119	Brown/ white PCB (PCB of rocker of remote control of sample A/ B)+Green/ beige PCB (small PCB of drone of sample A/ B)+Green PCB (PCB of drone of sample A/ B)	/	/
A91+A92+A111	Black soft plastic with white printing (thick wire covering of battery, PCB of drone of sample A/ B)+Light red soft plastic with white printing (thick wire covering of battery of drone of sample A/ B)+Beige plastic (plug of small PCB of drone of sample A/ B)	/	/
A94+A95+A96	Red soft plastic (thin wire covering of motor of drone of sample A/ B)+Blue soft plastic (thin wire covering of motor of drone of sample A/ B)+Black soft plastic (thin wire covering of motor of drone of sample A/ B)	/	/
A97+A99+A100	White soft plastic (thin wire covering of motor of drone of sample A/ B)+Black soft plastic (wire covering of LED of drone of sample A/ B)+Red soft plastic (wire covering of LED of drone of sample A/ B)	/	/
A102+A103+A105	Yellow soft plastic (wire covering of LED of drone of sample A/ B)+Red soft plastic (thick wire covering of PCB of drone of sample A/ B)+Red soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A105	Red soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A106+A107+A108	Yellow soft plastic (wire covering of small PCB of drone of sample A/ B)+Black soft plastic (wire covering of small PCB of drone of sample A/ B)+White soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A106	Yellow soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A107	Black soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A108	White soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/



A115+A120+A121	Brown plastic (base of switch of drone of sample A/ B)+Black plastic with silvery metal (triode of PCB of drone of sample A/ B)+Black plastic with silvery metal (triode of PCB of drone of sample A/ B)	/	/
A124+A125+A129	Black plastic with silvery metal (IC of PCB of drone of sample A/ B)+Transparent plastic (SMD LED of drone of sample A/ B)+White plastic (lid of motor of drone of sample A/ B)	/	/
A130+A137	Black plastic (lid of motor of drone of sample A/ B)+Dull white plastic (motor of drone of sample A/ B)	/	/

Maximum Allowable Limit :	Type I	Plastic Material: 100 mg/kg
	Type II	Paints: 100 mg/kg (When total Zn below 100 000 mg/kg) or 1000 mg/kg (When total Zn equals to or greater than 100 000 mg/kg)

Test Item(s)	Result		Unit	Conclusion
	Type	Total Cadmium (Cd)		
A1+B1	I	ND	mg/kg	PASS
A2+A3+A4	I	ND	mg/kg	PASS
A5+A6+A7	I	ND	mg/kg	PASS
A8+A9+B2	I	ND	mg/kg	PASS
A10+A12+A14	I	ND	mg/kg	PASS
A15+A18+A19	I	ND	mg/kg	PASS
A17+A34+A70	I	ND	mg/kg	PASS
A29+A31+A32	I	ND	mg/kg	PASS
A36+A37+A42	I	ND	mg/kg	PASS
A43+A45+A52	I	ND	mg/kg	PASS
A55+A56+A57	I	ND	mg/kg	PASS
A60+A61+A67	I	ND	mg/kg	PASS
A77+A78+A79	I	ND	mg/kg	PASS
A80+A89	I	ND	mg/kg	PASS
A82+A110+A119	I	ND	mg/kg	PASS
A91+A92+A111	I	ND	mg/kg	PASS
A94+A95+A96	I	ND	mg/kg	PASS
A97+A99+A100	I	ND	mg/kg	PASS
A102+A103+A105	I	ND	mg/kg	PASS
A105	I	ND	mg/kg	PASS
A106+A107+A108	I	ND	mg/kg	PASS
A106	I	ND	mg/kg	PASS
A107	I	ND	mg/kg	PASS
A108	I	ND	mg/kg	PASS
A115+A120+A121	I	ND	mg/kg	PASS
A124+A125+A129	I	ND	mg/kg	PASS
A130+A137	I	ND	mg/kg	PASS

Note / Key :

ND = Not detected

">" = Greater than

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

10 000 mg/kg = 1 %

% = percent

U. S. EPA = United States Environmental Protection Agency

No. = Number(s)



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Detection Limit (mg/kg) : 10

Remark :

- Plastic material(s) produced from recovered polyvinyl chloride (PVC) is (are) not allowed to comply with this requirement and has (have) to comply with another total cadmium requirement with maximum allowable limit of 1 000 mg/kg.
 - Total zinc content testing should be conducted when the Test Item(s) was (were) found with total cadmium content over 100 mg/kg.
-



Polycyclic Aromatic Hydrocarbons (PAHs) Content - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII with its Latest Amendments, Entry 50, Point 6

Test Method : With reference to test method mentioned in German AfPS GS 2019:01 PAK.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1+B1	Silvery/ black coating on plastic (pattern of body, fan of drone of sample A)+Silvery/ white coating on plastic (pattern of body, fan of drone of sample B)	/	/
A2+A3+A4	Dull white plastic (body of drone, remote control of sample A, rocker, button of remote control of sample B)+White plastic (fan of drone of sample A)+Snow white plastic (undercarriage, shalf, cover of battery case of drone of sample A)	/	/
A5+A6+A7	Transparent plastic (LED of drone of sample A/ B)+Black plastic (switch of drone of sample A/ B)+Transparent plastic film (cover of battery of drone of sample A/ B)	/	/
A8+A9+B2	Light white plastic (gear of drone of sample A/ B)+Transparent red plastic (LED of remote control of sample A/ B)+Black plastic (body, fan, undercarriage, shalf of drone, body of remote control of sample B, rocker, button of remote control of sample A)	/	/
A10+A12+A14	Transparent plastic (handle of screwdriver of sample A/ B)+Black plastic (USB of sample A/ B)+Black plastic (plug of USB of sample A/ B)	/	/

Maximum Allowable Limit :	0.5 mg/kg (Each of all listed PAHs)^[a]
----------------------------------	--

Test Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
A1+B1	ND	ND	mg/kg	PASS
A2+A3+A4	ND	ND	mg/kg	PASS
A5+A6+A7	ND	ND	mg/kg	PASS
A8+A9+B2	ND	ND	mg/kg	PASS
A10+A12+A14	ND	ND	mg/kg	PASS

Note / Key :

ND = Not detected
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
1 % = 10 000 mg/kg
Detection Limit (mg/kg): 0.1

“>” = Greater than

Conc. = Concentration
% = percent



Remark :

- The list of polycyclic aromatic hydrocarbons is summarized in table of Appendix.
- Rubber or plastic component(s) of Toys (Including activity toys and childcare articles) that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity under normal or reasonably foreseeable conditions of use is (are) applicable to be tested.
- ^[a] denotes as this maximum allowable limit applies to product(s) placed on the market for the first time on or after December 27, 2015 only.

APPENDIX

List of Polycyclic Aromatic Hydrocarbons

[European Parliament and Council Regulation EC No. 1907/2006, Annex XVII, Entry 50, Point 6] :

No.	Name of Analyte(s)	CAS-No.	No.	Name of Analyte(s)	CAS-No.
1	Benzo[a]pyrene (BaP)	50-32-8	5	Benzo[b]fluoranthene (BbFA)	205-99-2
2	Benzo[e]pyrene (BeP)	192-97-2	6	Benzo[j]fluoranthene (BjFA)	205-82-3
3	Benzo[a]anthracene (BaA)	56-55-3	7	Benzo[k]fluoranthene (BkFA)	207-08-9
4	Chrysene (CHR)	218-01-9	8	Dibenzo[a,h]anthracene (DBAhA)	53-70-3

CAS-No. = Chemical Abstracts Service registry number



Phthalates Content in Certain Articles - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with its Latest Amendment, Entry 51

Test Method : International Standard ISO 8124-6: 2018, Method A.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1+B1	Silvery/ black coating on plastic (pattern of body, fan of drone of sample A)+Silvery/ white coating on plastic (pattern of body, fan of drone of sample B)	/	/
A2+A3+A4	Dull white plastic (body of drone, remote control of sample A, rocker, button of remote control of sample B)+White plastic (fan of drone of sample A)+Snow white plastic (undercarriage, shalf, cover of battery case of drone of sample A)	/	/
A5+A6+A7	Transparent plastic (LED of drone of sample A/ B)+Black plastic (switch of drone of sample A/ B)+Transparent plastic film (cover of battery of drone of sample A/ B)	/	/
A8+A9+B2	Light white plastic (gear of drone of sample A/ B)+Transparent red plastic (LED of remote control of sample A/ B)+Black plastic (body, fan, undercarriage, shalf of drone, body of remote control of sample B, rocker, button of remote control of sample A)	/	/
A10+A12+A14	Transparent plastic (handle of screwdriver of sample A/ B)+Black plastic (USB of sample A/ B)+Black plastic (plug of USB of sample A/ B)	/	/
A15+A18+A19	White plastic (plug of USB of sample A/ B)+Transparent plastic (SMD LED of USB of sample A/ B)+Black plastic (triode of USB of sample A/ B)	/	/
A17+A34+A70	Green/ brown PCB (PCB of USB of sample A/ B)+Green/ brown PCB (PCB of remote control of sample A/ B)(internal)+Green/ black PCB (buzzer of remote control of sample A/ B)	/	/
A29+A31+A32	Black soft plastic (wire covering of remote control of sample A/ B)+Red soft plastic (wire covering of remote control of sample A/ B)+Transparent soft plastic (wire covering of remote control, drone of sample A/ B)	/	/



A36+A37+A42	Black plastic with silvery metal (diode of PCB of remote control of sample A/ B)+Black plastic with silvery metal (triode of PCB of remote control of sample A/ B)+Black plastic with silvery metal (IC of PCB of remote control of sample A/ B)	/	/
A43+A52+A55	Transparent plastic (cover of LED of remote control of sample A/ B)+Black plastic (button of remote control of sample A/ B)+Blue plastic (button of remote control of sample A/ B)	/	/
A45+A60+A61	Transparent glue (fastener of crystal of remote control of sample A/ B)+Grey printed black soft plastic (sleeve of capacitor of remote control, drone of sample A/ B)+Black soft plastic (base of capacitor of remote control, drone of sample A/ B)	/	/
A56+A57+A67	White plastic (button of remote control of sample A/ B)+Black plastic (button of remote control of sample A/ B)+Black plastic (buzzer of remote control of sample A/ B)	/	/
A77+A78+A79	Dark blue plastic (rocker of remote control of sample A/ B)+Light green plastic (rocker of remote control of sample A/ B)+Green plastic (rocker of remote control of sample A/ B)	/	/
A80+A89+A111	Light white plastic (rocker of remote control of sample A/ B)+White plastic (plug of battery, PCB of drone of sample A/ B)+Beige plastic (plug of small PCB of drone of sample A/ B)	/	/
A82+A110+A119	Brown/ white PCB (PCB of rocker of remote control of sample A/ B)+Green/ beige PCB (small PCB of drone of sample A/ B)+Green PCB (PCB of drone of sample A/ B)	/	/
A91+A92+A94	Black soft plastic with white printing (thick wire covering of battery, PCB of drone of sample A/ B)+Light red soft plastic with white printing (thick wire covering of battery of drone of sample A/ B)+Red soft plastic (thin wire covering of motor of drone of sample A/ B)	/	/



A95+A96+A97	Blue soft plastic (thin wire covering of motor of drone of sample A/ B)+Black soft plastic (thin wire covering of motor of drone of sample A/ B)+White soft plastic (thin wire covering of motor of drone of sample A/ B)	/	/
A99+A100+A102	Black soft plastic (wire covering of LED of drone of sample A/ B)+Red soft plastic (wire covering of LED of drone of sample A/ B)+Yellow soft plastic (wire covering of LED of drone of sample A/ B)	/	/
A103	Red soft plastic (thick wire covering of PCB of drone of sample A/ B)+	/	/
A105	Red soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A106	Yellow soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A107	Black soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A108	White soft plastic (wire covering of small PCB of drone of sample A/ B)	/	/
A115+A120+A121	Brown plastic (base of switch of drone of sample A/ B)+Black plastic with silvery metal (triode of PCB of drone of sample A/ B)+Black plastic with silvery metal (triode of PCB of drone of sample A/ B)	/	/
A124+A125+A129	Black plastic with silvery metal (IC of PCB of drone of sample A/ B)+Transparent plastic (SMD LED of drone of sample A/ B)+White plastic (lid of motor of drone of sample A/ B)	/	/
A130+A137	Black plastic (lid of motor of drone of sample A/ B)+Dull white plastic (motor of drone of sample A/ B)	/	/

Maximum Allowable Limit :	Less than 0.1 % (Each or Sum of all listed phthalates)
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Test Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
A1+B1	ND	ND	%	PASS
A2+A3+A4	ND	ND	%	PASS
A5+A6+A7	ND	ND	%	PASS
A8+A9+B2	ND	ND	%	PASS
A10+A12+A14	ND	ND	%	PASS
A15+A18+A19	ND	ND	%	PASS
A17+A34+A70	ND	ND	%	PASS
A29+A31+A32	ND	ND	%	PASS



A36+A37+A42	ND	ND	%	PASS
A43+A52+A55	ND	ND	%	PASS
A45+A60+A61	ND	ND	%	PASS
A56+A57+A67	ND	ND	%	PASS
A77+A78+A79	ND	ND	%	PASS
A80+A89+A111	ND	ND	%	PASS
A82+A110+A119	ND	ND	%	PASS
A91+A92+A94	DEHP DBP	0.00537 0.0193	%	PASS
A95+A96+A97	DEHP	0.00678	%	PASS
A99+A100+A102	ND	ND	%	PASS
A103	DEHP DBP	0.00915 0.0627	%	PASS
A105	ND	ND	%	PASS
A106	ND	ND	%	PASS
A107	ND	ND	%	PASS
A108	ND	ND	%	PASS
A115+A120+A121	ND	ND	%	PASS
A124+A125+A129	ND	ND	%	PASS
A130+A137	ND	ND	%	PASS

Note / Key :

ND = Not detected	“>” = Greater than	Conc. = Concentration
mg/kg = milligram(s) per kilogram = ppm = part(s) per million		% = percent
1 % = 10 000 mg/kg		
Detection Limit (%) - Each of the listed phthalates : 0.005		

Remark :

- The following articles that are exempted for testing:
 - (i) Articles exclusively for industrial or agricultural use, or for use exclusively in the open air, provided that no plasticized material comes into contact with human mucous membranes or into prolonged contact with human skin;
 - (ii) Measuring devices for laboratory use, or parts thereof;
 - (iii) Materials and articles intended to come into contact with food within the scope of Regulation (EC) No. 1935/2004 or Commission Regulation (EU) No. 10/2011;
 - (iv) Medical devices within the scope of Directives 90/385/EEC, 93/42/EEC or 98/79/EC, or parts thereof;
 - (v) Electrical and electronic equipment within the scope of Directive 2011/65/EU; and
 - (vi) Immediate packaging of medicinal products within the scope of Regulation (EC) No 726/2004, Directive 2001/82/EC or Directive 2001/83/EC.
- The list of phthalates is summarized in table of Appendix.
- Test Item(s) was (were) claimed to be placed on the market before July 7, 2020 by client. Therefore, this (these) Test Item(s) containing the found phthalate(s) level should be considered as data.

APPENDIX

List of Phthalates [European Regulation EC No. 1907/2006, Annex XVII, Entry 51] :					
No.	Name of Analyte(s)	CAS-No. [EC No.]	No.	Name of Analyte(s)	CAS-No. [EC No.]
1	Butyl benzyl phthalate (BBP)	85-68-7 [201-622-7]	3	Di-2-ethylhexyl phthalate (Bis(2-ethylhexyl) phthalate) (DEHP)	117-81-7 [204-211-0]
2	Di-n-butyl phthalate (Dibutyl phthalate) (DBP)	84-74-2 [201-557-4]	4	Di-iso-butyl phthalate (Diisobutyl phthalate) (DIBP)	84-69-5 [201-553-2]



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CAS-No. = Chemical Abstracts Service registry number
EC No. = European Commission number



Phthalates Content in Toys and Childcare Articles which can be placed in the Mouth by Children - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EU No. 412/2012, Annex XVII, Entry 52

Test Method : International Standard ISO 8124-6: 2018, Method A.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1+B1	Silvery/ black coating on plastic (pattern of body, fan of drone of sample A)+Silvery/ white coating on plastic (pattern of body, fan of drone of sample B)	/	/
A2+A3+A4	Dull white plastic (body of drone, remote control of sample A, rocker, button of remote control of sample B)+White plastic (fan of drone of sample A)+Snow white plastic (undercarriage, shalf, cover of battery case of drone of sample A)	/	/
A5+A6+A7	Transparent plastic (LED of drone of sample A/ B)+Black plastic (switch of drone of sample A/ B)+Transparent plastic film (cover of battery of drone of sample A/ B)	/	/
A8+A9+B2	Light white plastic (gear of drone of sample A/ B)+Transparent red plastic (LED of remote control of sample A/ B)+Black plastic (body, fan, undercarriage, shalf of drone, body of remote control of sample B, rocker, button of remote control of sample A)	/	/

Maximum Allowable Limit :	0.1 % (Sum of all listed phthalates)
----------------------------------	---

Test Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
A1+B1	ND	ND	%	PASS
A2+A3+A4	ND	ND	%	PASS
A5+A6+A7	ND	ND	%	PASS
A8+A9+B2	ND	ND	%	PASS

Note / Key :

ND = Not detected
% = percent
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit (%) : Each : 0.005

“>” = Greater than
1 % = 10 000 mg/kg
Conc. = Concentration

Remark :

- The list of phthalates is summarized in table of Appendix.
- Test Item(s) has (have) to comply together with the phthalates requirement of European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EU No. 412/2012, Annex XVII, Entry 51.



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APPENDIX

List of Phthalates [European Regulation EC No. 1907/2006, Annex XVII, Entry 52] :

No.	Name of Analytes	CAS-No. [EC No.]	No.	Name of Analytes	CAS-No. [EC No.]
1	Di-iso-nonyl phthalate (DINP)	28553-12-0 & 68515-48-0 [249-079-5 & 271-090-9]	3	Di-iso-decyl phthalate (DIDP)	26761-40-0 & 68515-49-1 [247-977-1 & 271-091-4]
2	Di-n-octyl phthalate (DNOP)	117-84-0 [204-214-7]	-	-	-

CAS-No. = Chemical Abstracts Service registry number
EC No. = European Commission number



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SUMMARY OF TEST RESULTS

The sample is classified as Class 1 Laser Product pursuant to IEC 60825-1.

Test Executed	Requirements	Test Standard	Limit	Result
Tests for Classification of Laser Products	Annex E, Sec. 20, EN 62115:2005	Sec. 8, Sec. 9, IEC 60825-1:1993 + A1:1997 + A2:2001	Table 1, IEC 60825-1:1993 + A1:1997 + A2:2001	Can be Classified as Class 1 Laser Product



Test method and equipment:

The following test equipment are applied for the tests:

Equip. No	Equipment Name	Brand Name	Model
M006003L	Digital Light Meter	TES	TES-1336A
M006004L	Digital Light Meter	Sper Scientific	840020
M008005L	Digital Caliper (0-12")	Mitutoyo	CD-12"C
M008006L	Digital Caliper (0-12")	Mitutoyo	CD-12"C
M015003L	Stainless Steel Ruler (0-12")	Endo Keiki	NIL
M019001L	Optical Sensor Head	Advantest	Q82214
M019002L	Optical Power Meter + Optical Sensor Interface Unit	Advantest	Q8221 / Q82203
M019003L	Optical Spectrum Analyzer	Advantest	Q8341
M019004L	Optical Sensor Head	Advantest	Q82214
M019005L	Optical Power Meter + Optical Sensor Interface Unit	Advantest	Q8221 / Q82203
T031001L	Laser Test Fixture + Sample Platform	NIL	NIL
T032001L	7mm Sensor Aperture Stop	NIL	NIL
T032003L	Ø0.5mm Field Stop Aperture	NIL	NIL
T032004L	Ø5mm Field Stop Aperture	NIL	NIL
T033001L	Filter (Yellow)	Lee Filter	101
T033002L	Filter (Green)	Lee Filter	124
T033003L	Filter (Red)	Lee Filter	182
T033004L	Filter (Blue)	Lee Filter	195

The measurements are carried out with the measurement set up following Section 9 of IEC 60825-1.

The measurement condition 2 specified in Section 9.3 and Table 10 of IEC 60825-1 is adopted.

Description of the lasers or LEDs under test:

Source No.	Feature
LED 1	CW; Single- λ ; Red LED (Controller)
LED 2	CW; Single- λ ; Red LED (Plane, Big)
LED 3	CW; Multi- λ non-additive; Blue-Red LED
LED 4	CW; Single- λ ; Red LED (Plane Small)
LED 5	CW; Single- λ ; Red LED (Charger)



Test Results:

I) TESTS DURING OPERATION

Basic Parameters of the lasers or LEDs

Single-wavelength source:

Parameters	Unit	LED 1	LED 2	LED 4	LED 5
Color of the laser/LED	(e.g. Red / Amber / Yellow / Green / Blue, etc.)	Red	Red	Red	Red
Wavelength (λ) measured / Given by manufacturer	(nm)	629	635	630	630
Time Base estimated	(sec)	100	100	100	100
Apparent source size (a) measured	(mm)	0.51	0.31	>10	>10
Angular subtense (α) estimated	(mrad)	5.1	3.06	>100	>100
Is the laser or LED continuous wave or pulsed?		CW	CW	CW	CW
Break Point (T_2)	(second)	10.88	10.37	100	100

Multi-Wavelength Source (Additive):

Parameters	Unit	LED 3	
Color of the laser/LED	(e.g. White)	Blue	Red
Wavelength (λ) measured / Given by manufacturer	(nm)	455	630
Time Base estimated	(sec)	100	
Apparent source size (a) measured	(mm)	0.31	
Angular subtense (α) estimated	(mrad)	3.06	
Is the laser or LED continuous wave or pulsed?		CW	
Break Point (T_2)	(second)	10.37	



For continuous wave (CW) lasers or LEDs:

Note: a laser or LED operating with a continuous output for a period equal to or greater than 0.25 second.

A) TESTS AGAINST RETINAL PHOTOCHEMICAL HAZARD (RPH):

Single-wavelength source:

Parameters	Unit	LED 1	LED 2	LED 4	LED 5
Limiting angle of acceptance (γ_p)	(mrad)	N/A	N/A	N/A	N/A
Measurement aperture (d)	(mm)	N/A	N/A	N/A	N/A
Measurement distance (r)	(mm)	N/A	N/A	N/A	N/A
Exposure time (t)	(sec)	N/A	N/A	N/A	N/A
Radiant power (P)	(μ W)	N/A	N/A	N/A	N/A
Radiant energy (Q)	(μ J)	N/A	N/A	N/A	N/A
The corresponding RPH AEL for Class 1 Laser	< μ W or μ J>	N/A	N/A	N/A	N/A
Does the laser or LED meet the RPH AEL of Class 1 Laser?		N/A	N/A	N/A	N/A

Multi-wavelength source (Additive):

Parameters	Unit	LED 3	
		455	630
Wavelength (λ)	(nm)	455	630
Limiting angle of acceptance (γ_p)	(mrad)	11.00	N/A
Measurement aperture (d)	(mm)	7	N/A
Measurement distance (r)	(mm)	27.82	N/A
Exposure time (t)	(sec)	100	N/A
Radiant power (P)	(μ W)	N/A	N/A
Radiant energy (Q)	(μ J)	93.99	N/A
The corresponding RPH AEL for Class 1 Laser	(μ J)	4909	N/A
$\Sigma[(P/AEL)],$ or $\Sigma[(Q/AEL)]$	None	<1	
Does the laser or LED meet the RPH AEL of Class 1 Laser?		Meet	



B) TESTS AGAINST RETINAL THERMAL HAZARD (RTH):

Single-wavelength source:

Parameters	Unit	LED 1	LED 2	LED 4	LED 5
Angle of acceptance (γ)	(mrad)	≥ 5.1	≥ 3.06	100	100
Measurement aperture (d)	(mm)	7	7	7	7
Measurement distance (r)	(mm)	23.58	18.76	100	100
Exposure time (t)	(sec)	100	100	100	100
Radiant power (P)	(μ W)	6.52 μ W	96.68 μ W	N/A	N/A
Radiant energy (Q)	(μ J)	N/A	N/A	0.11 μ J	0.27 μ J
The corresponding RTH AEL for Class 1 Laser	μ W or μ J	1310	795.73	1475730	1475730
Does the laser or LED meet the RPH AEL of Class 1 Laser?		Meet	Meet	Meet	Meet

Multi-wavelength source (Additive):

Parameters	Unit	LED 3	
Wavelength (λ)	(nm)	455	630
Angle of acceptance (γ)	(mrad)	≥ 3.06	
Measurement aperture (d)	(mm)	7	
Measurement distance (r)	(mm)	18.76	
Exposure time (t)	(sec)	100	
Radiant power (P)	(μ W)	432.28	21.25
Radiant energy (Q)	(μ J)	N/A	N/A
The corresponding RTH AEL for Class 1 Laser	(μ W)	795.73	795.73
$\Sigma[(P/AEL)]$, or $\Sigma[(Q/AEL)]$	None	<1	
Does the laser or LED meet the RPH AEL of Class 1 Laser?		Meet	



II) TESTS WITH PARTS SUCH AS LENSES, REFLECTORS OR FILTERS THAT COULD AFFECT FOCUSING
REMOVED

Basic Parameters of the lasers or LEDs

Single-wavelength source:

Parameters	Unit	LED 4	LED 5
Color of the laser/LED	(e.g. Red / Amber / Yellow / Green / Blue, etc.)	RED	RED
Wavelength (λ) measured / Given by manufacturer	(nm)	630	630
Time Base estimated	(sec)	100	100
Apparent source size (a) measured	(mm)	0.2	0.2
Angular subtense (α) estimated	(mrad)	2.04	2.04
Is the laser or LED continuous wave or pulsed?		CW	CW
Break Point (T_2)	(second)	10.13	10.13



For continuous wave (CW) lasers or LEDs:

Note: a laser or LED operating with a continuous output for a period equal to or greater than 0.25 second.

A) TESTS AGAINST RETINAL PHOTOCHEMICAL HAZARD (RPH):

Single-wavelength source:

Parameters	Unit	LED 4	LED 5
Limiting angle of acceptance (γ_p)	(mrad)	N/A	N/A
Measurement aperture (d)	(mm)	N/A	N/A
Measurement distance (r)	(mm)	N/A	N/A
Exposure time (t)	(sec)	N/A	N/A
Radiant power (P)	(μ W)	N/A	N/A
Radiant energy (Q)	(μ J)	N/A	N/A
The corresponding RPH AEL for Class 1 Laser	< μ W or μ J>	N/A	N/A
Does the laser or LED meet the RPH AEL of Class 1 Laser?		N/A	N/A

B) TESTS AGAINST RETINAL THERMAL HAZARD (RTH):

Single-wavelength source:

Parameters	Unit	LED 4	LED 5
Angle of acceptance (γ)	(mrad)	≥ 2.04	≥ 2.04
Measurement aperture (d)	(mm)	7	7
Measurement distance (r)	(mm)	15.81	15.81
Exposure time (t)	(sec)	100	100
Radiant power (P)	(μ W)	10.89	5.32
Radiant energy (Q)	(μ J)	N/A	N/A
The corresponding RTH AEL for Class 1 Laser	(μ W)	533.66	533.66
Does the laser or LED meet the RTH AEL of Class 1 Laser?		Meet	Meet

N/A = Not Applicable



RESULTS:

European Standard EN 62115: 2005 + A2: 2011 + A11: 2012 + A12: 2015, "Electric toys - Safety"

Clause	Parameter	Result
5.13	Electrical connection can be made as reversed polarity due to incorrect insertion.	NOT POSSIBLE
7	Marking and Instructions	M
8	Power input	NA
9	Heating and abnormal operation	M-See Remark
10	Electric strength at operating temperature	M
11	Moisture resistance	M
12	Electric strength at room temperature	M
13	Mechanical strength	M
14	Construction	M
15	Protection of cords and wires	M
16	Components	M-See Executive Summary
17	Screws and connections	M
18	Creepage distance and clearances	M
19	Resistance to heat and fire	M
20	Radiation, toxicity and similar hazards	See Executive Summary
Annex ZB	Toys with protective electronic circuit	M
Annex ZC	Toys generating Electromagnetic Fields (EMF)	NA

M = Meet
NA = Not applicable

NM/R = Not Meet-refer to Comment Section
NR = Not requested by the client



RESULTS:

Remark:

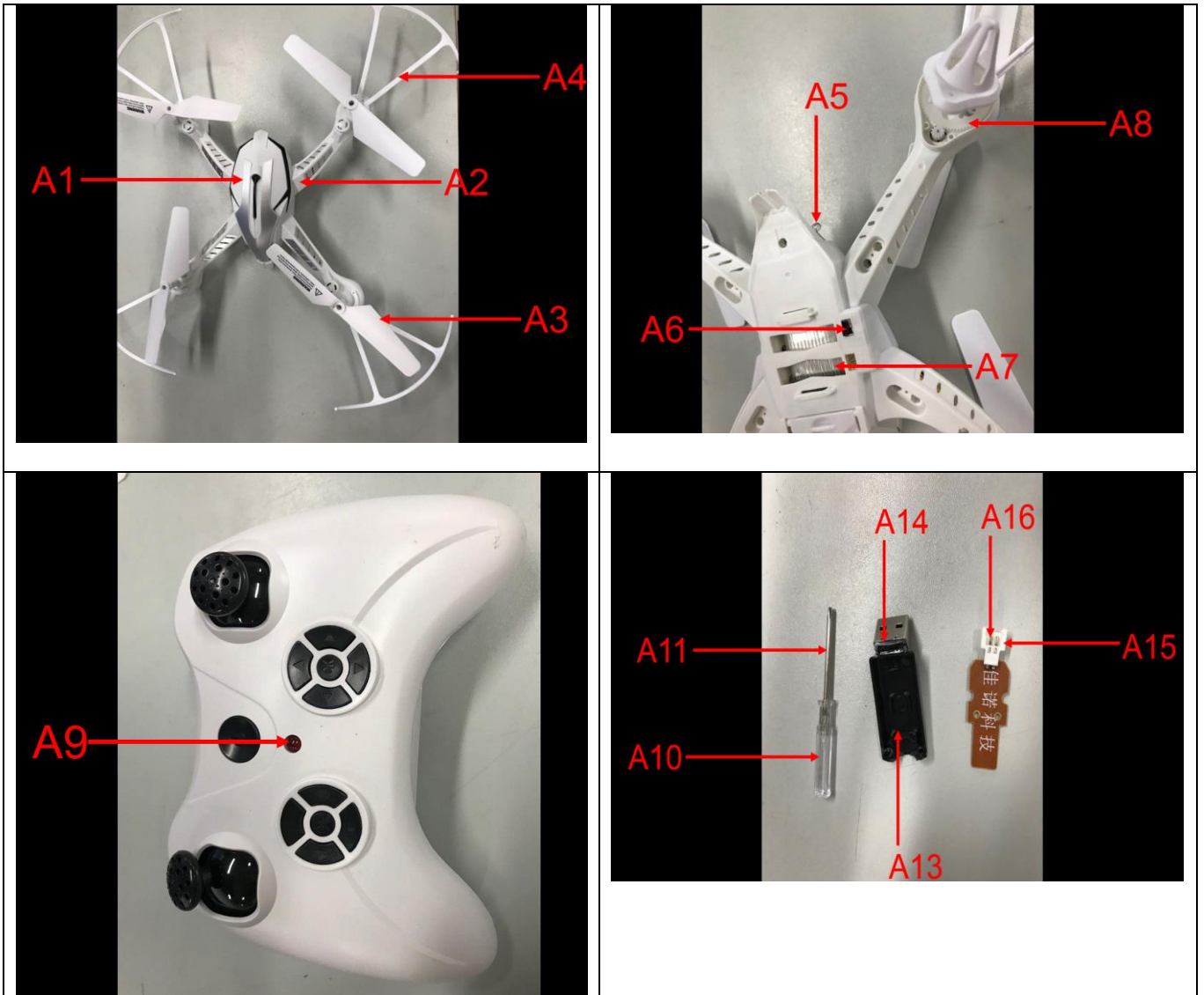
Clause	Parameter												
9.3	The maximum temperature rises at normal operation were recorded as follows: Ambient Temperature (°C): 23.1												
	<table border="1"><thead><tr><th><u>Location</u></th><th><u>Temperature Rise (K)</u></th><th><u>Limit (K)</u></th></tr></thead><tbody><tr><td>Battery Surface (TX)</td><td>2.6</td><td>45</td></tr><tr><td>Enclosure (near motor) (RX)</td><td>4.9</td><td>50</td></tr><tr><td>Battery Surface (RX)</td><td>8.9</td><td>45</td></tr></tbody></table>	<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>	Battery Surface (TX)	2.6	45	Enclosure (near motor) (RX)	4.9	50	Battery Surface (RX)	8.9	45
	<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>										
	Battery Surface (TX)	2.6	45										
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Battery Surface (RX)	8.9	45											
9.6	The maximum temperature rises at lock rotor were recorded as follows: Ambient Temperature (°C): 23.1												
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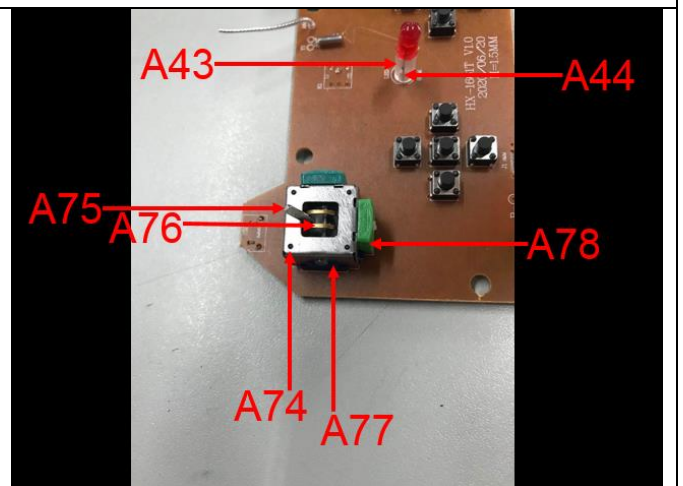
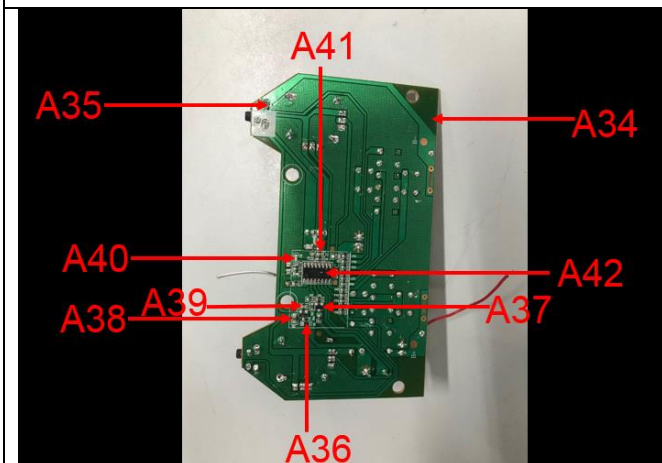
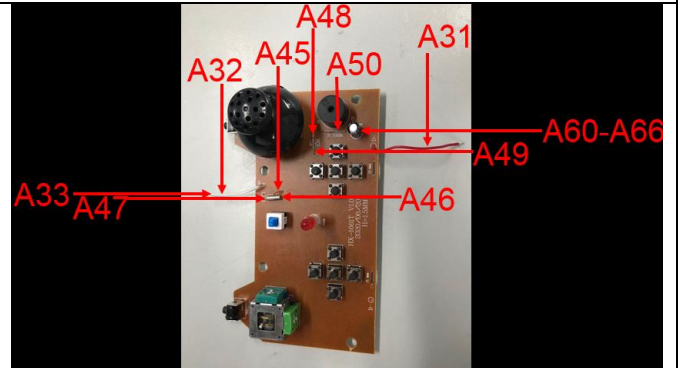
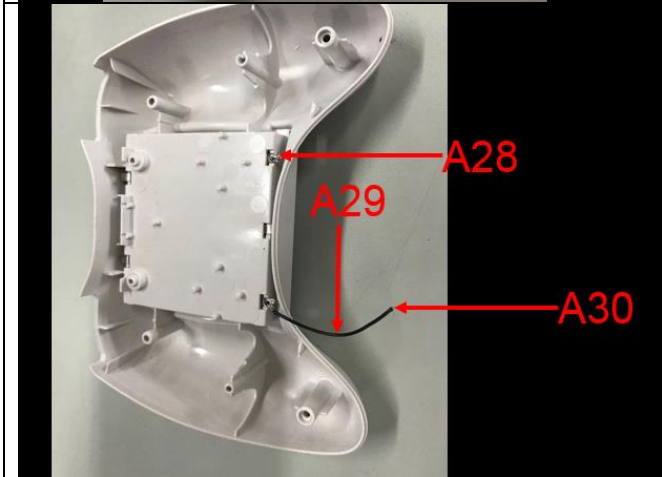
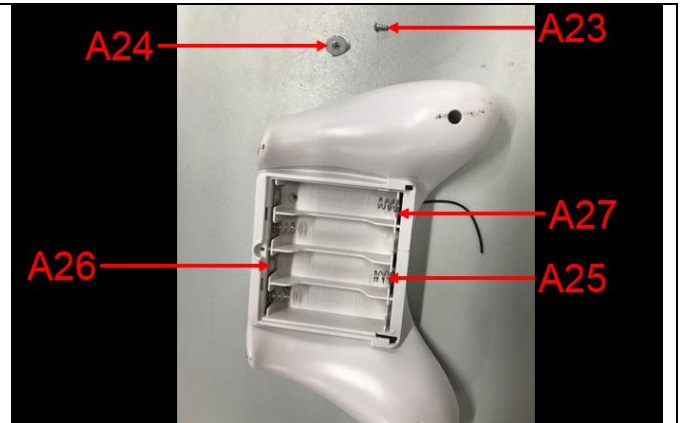
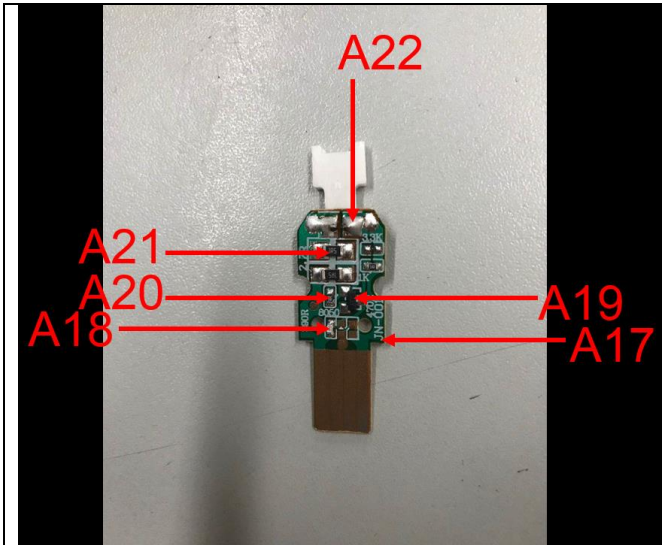
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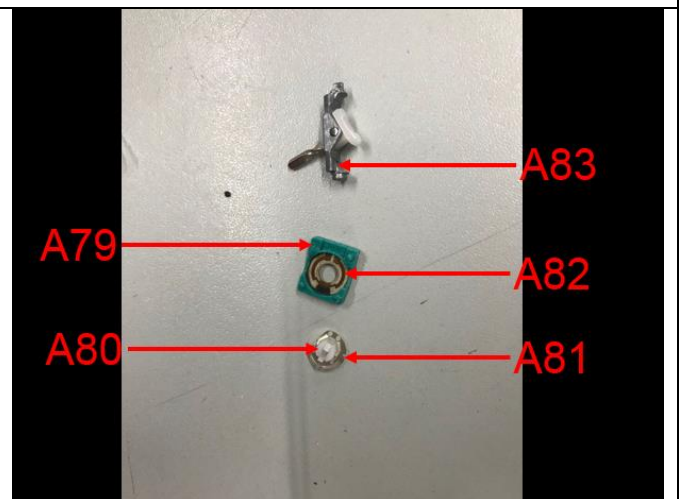
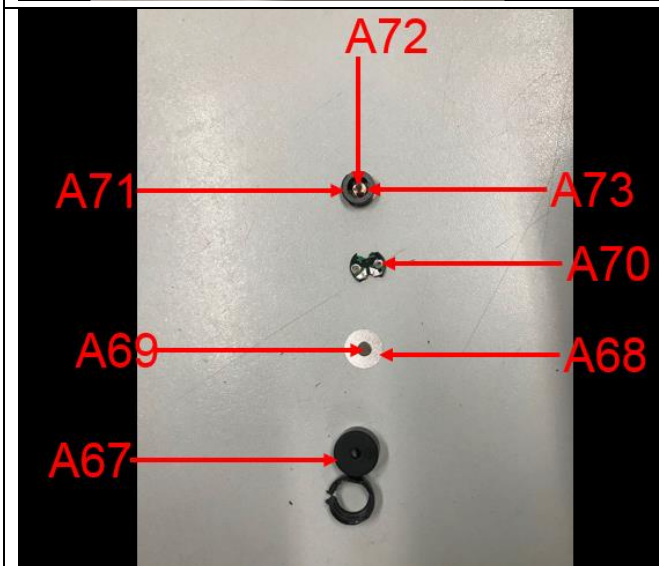
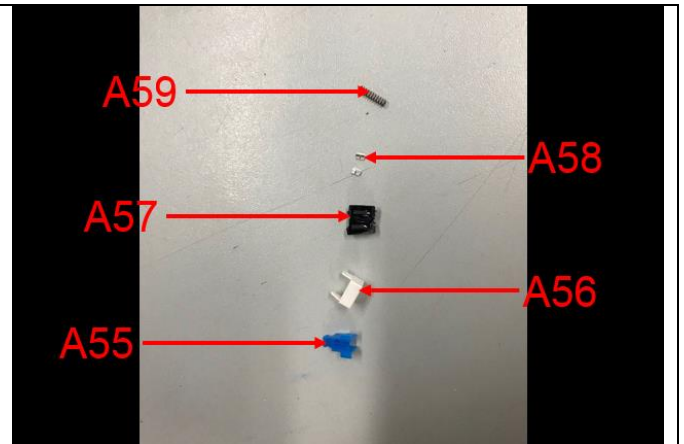
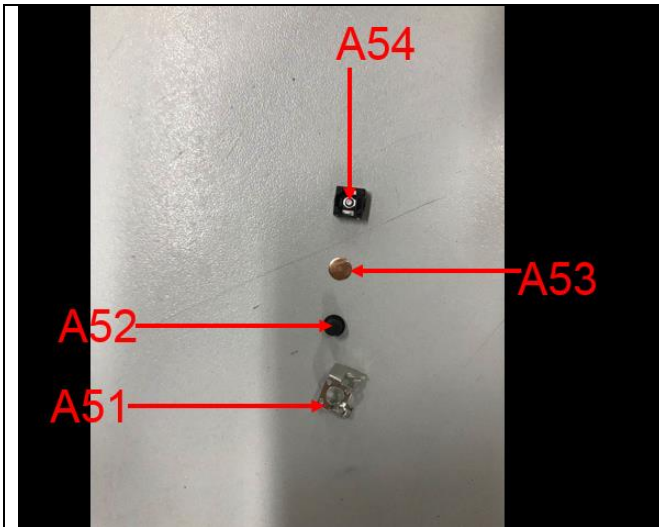
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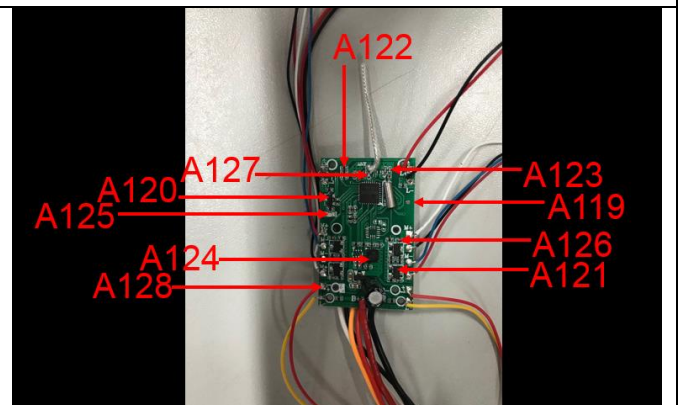
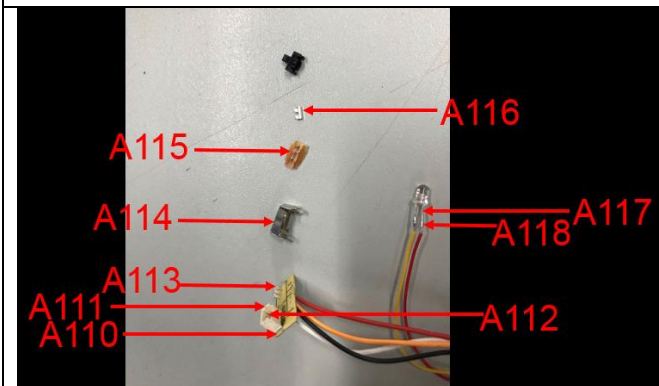
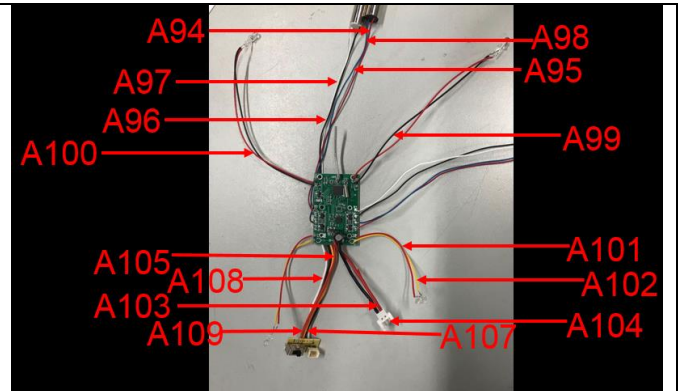
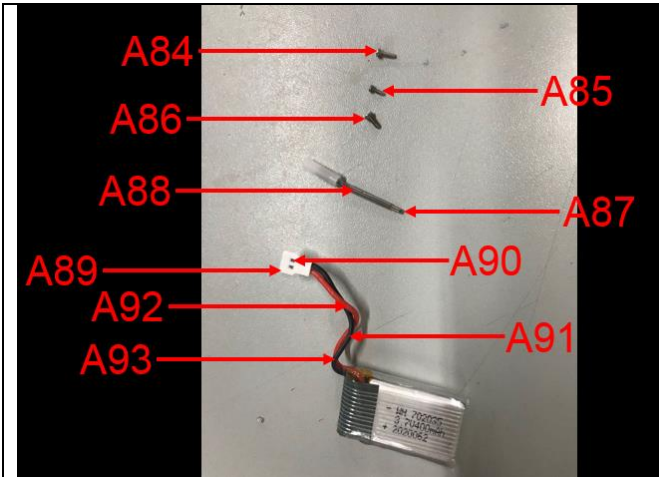


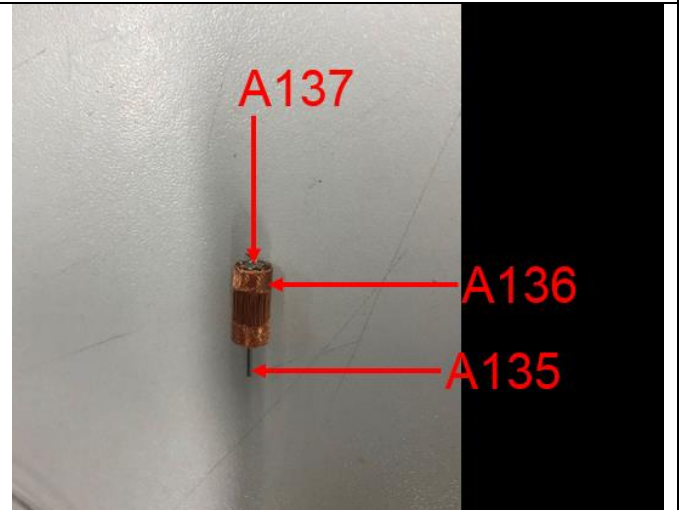
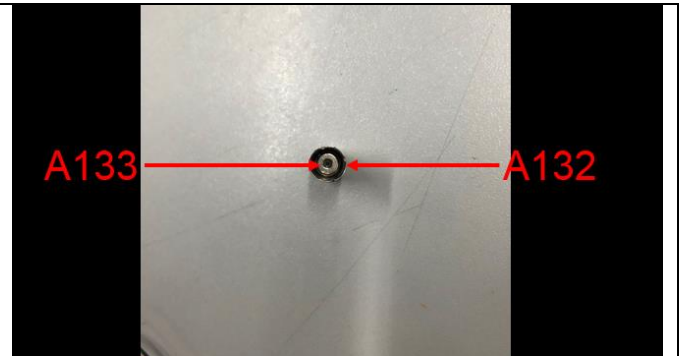
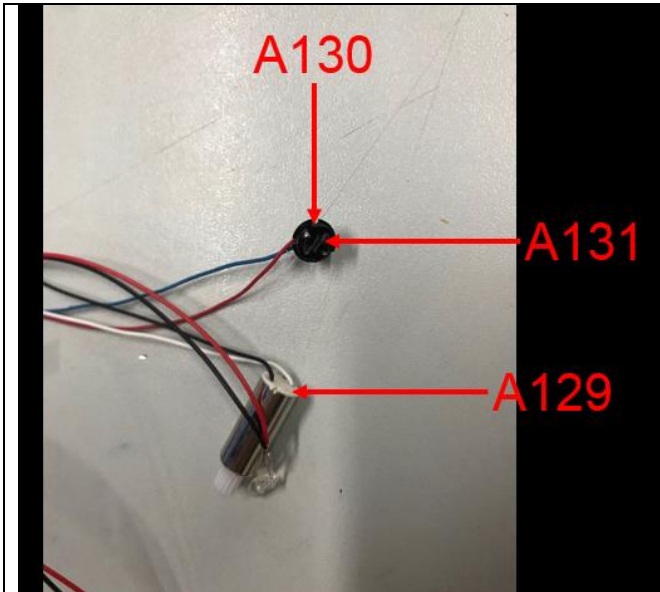


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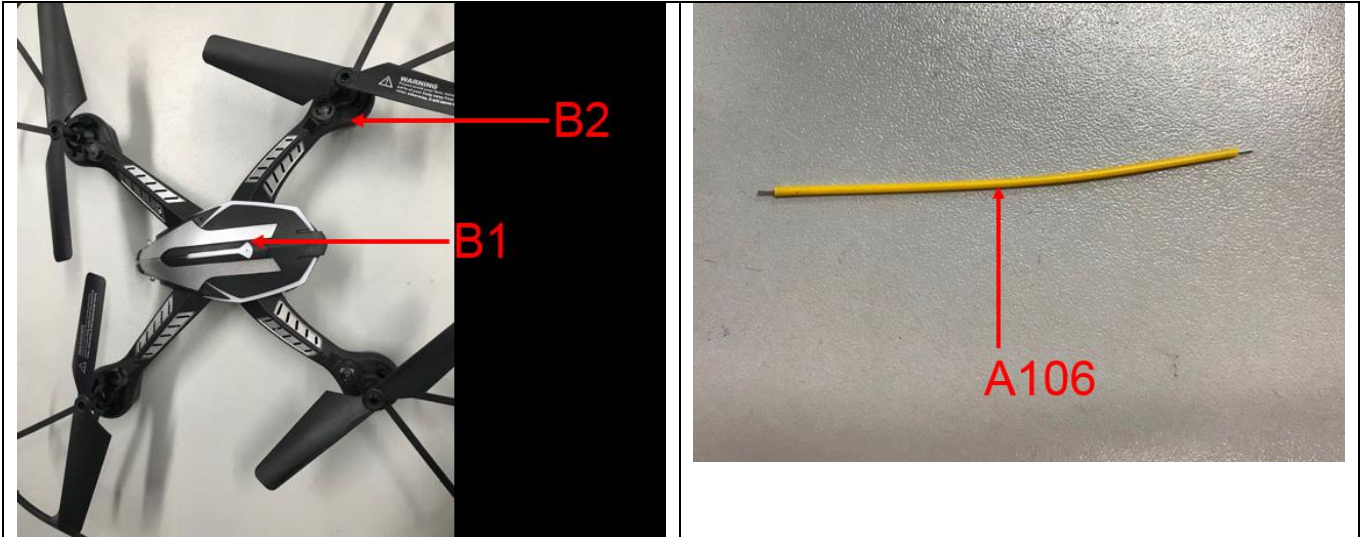






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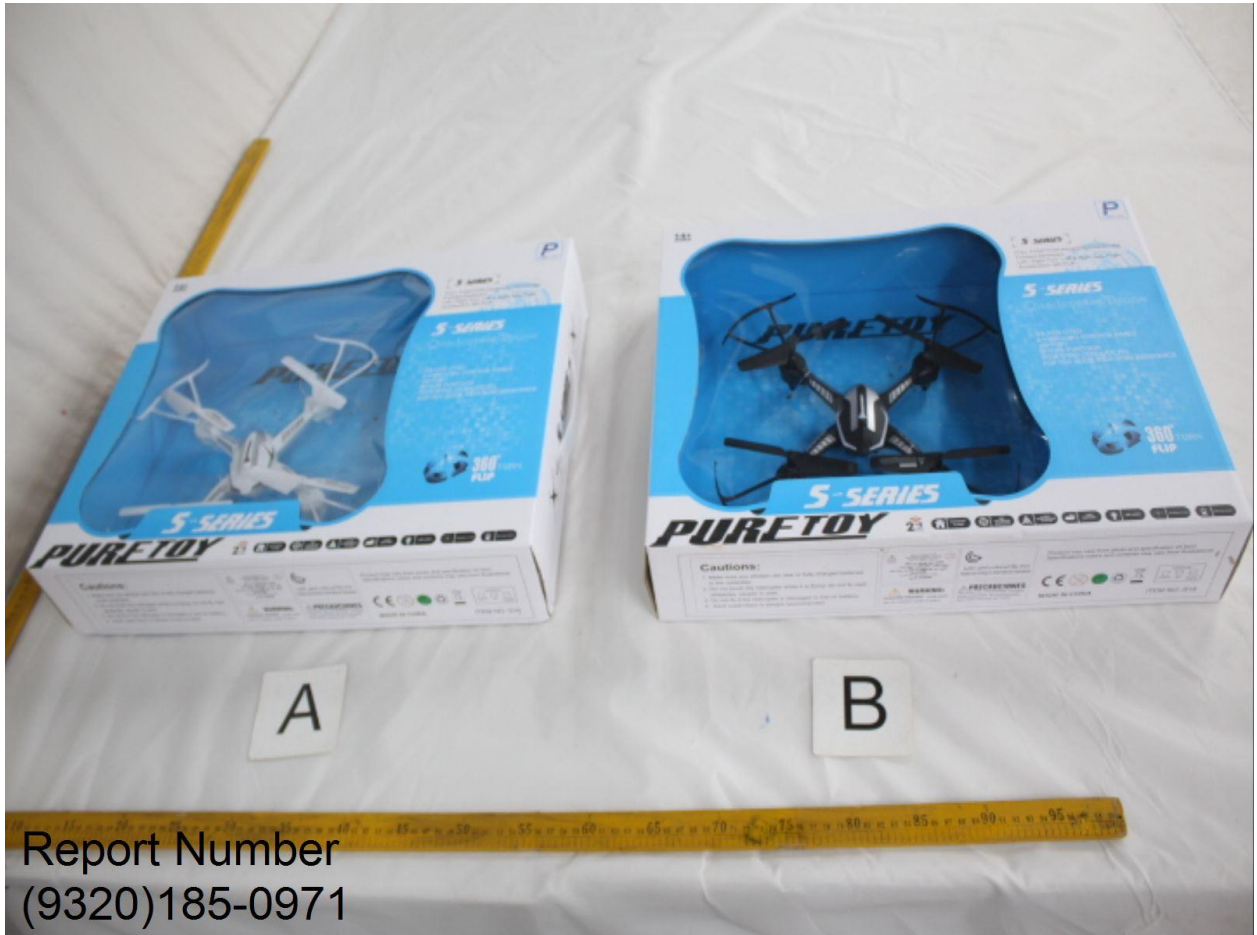
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Eagle V8
EAGLE REMOTE CONTROL

2.4GHz

Model No. EW-0808
Product No. EW-0808

Net weight: 168g (6.3oz)
Gross weight: 200g (7.1oz)
Max. flight time: 12 minutes
Max. flight height: 120m (394ft)
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1. THE PRODUCT PACKAGING CONTENTS

1. Drone (1)
2. Remote Control (1)
3. Spare Propellers (4)
4. Spare Propeller Guards (4)
5. Spare Batteries (2)
6. Spare ESCs (2)
7. Spare Motors (2)
8. Spare Propellers (4)
9. Spare Propeller Guards (4)
10. Spare Batteries (2)
11. Spare ESCs (2)
12. Spare Motors (2)

2. THE INSTALLATION OF BATTERY OF REMOTE CONTROL DEVICE

1. Turn the remote control device upside down.
2. Insert the battery into the battery compartment.
3. Close the battery cover.

NOTE:
1. Do not use old or damaged batteries.
2. Do not use different brands of batteries.

3. THE BATTERY CHARGING OF FLYING DEVICE

1. Connect the USB cable to the PC and the USB cable to the USB port of the drone.
2. Turn on the power switch of the drone.
3. When the red indicator light is on, it indicates that the battery is being charged.

4. QUADROPTER ASSEMBLING

1. Remove the propellers, propeller guards and propeller nuts.
2. Turn the motor clockwise until the propeller is locked. Then insert the propeller into the motor. (Note: The propeller must be inserted in the correct direction.)
3. Turn the motor counter-clockwise until the propeller is locked. Then insert the propeller into the motor. (Note: The propeller must be inserted in the correct direction.)
4. Repeat the steps 2 and 3 for the other two motors.

5. SCREW OF DRONE

Make sure that the three screws are in a position to be in the center of the battery cover. Then turn on the power of the remote control device, and then turn on the drone.

6. THE OPERATION AND CONTROL OF FLYING DEVICE

1. TAKE OFF: Turn on the power switch of the drone. Then turn on the remote control device. Push the throttle lever up to take off. Push the throttle lever down to land.

2. FORWARD: Push the left stick forward to move forward. Push the left stick backward to move backward.

3. TURN LEFT/RIGHT: Push the right stick left to turn left. Push the right stick right to turn right.

4. STOP: Push the throttle lever down to land.

5. RETURN HOME: Push the return home button on the remote control device.

7. THE ROLLING MODE

1. Turn on the power switch of the drone. Then turn on the remote control device.
2. Push the return home button on the remote control device.
3. The drone will enter the rolling mode.

8. RECALLS MODE WITH ONE KEY RETURN

1. Turn on the power switch of the drone. Then turn on the remote control device.
2. Push the recall button on the remote control device.
3. The drone will return to the recall point.

9. THE APPLICATION OF CAMERA

1. Turn on the power switch of the drone. Then turn on the remote control device.
2. Push the camera button on the remote control device.
3. The camera will be activated.

10. TRIGGER SHOOTING DURING FLIGHT

Function	Trigger	Return Mode
Take off	Throttle lever up	Return to Home
Land	Throttle lever down	Return to Home
Forward	Left stick forward	Return to Home
Backward	Left stick backward	Return to Home
Turn Left	Right stick left	Return to Home
Turn Right	Right stick right	Return to Home
Return Home	Return Home button	Return to Home
Rolling Mode	Return Home button	Return to Home
Recalls Mode	Recalls button	Return to Home
Camera	Camera button	Return to Home

11. ATTENTION

1. Do not fly over people or crowded areas.
2. Do not fly near airports or military bases.
3. Do not fly in restricted airspace.
4. Do not fly in bad weather.
5. Do not fly for more than 12 minutes.
6. Do not fly higher than 120m.
7. Do not fly faster than 15m/s.
8. Do not fly in wind speed higher than 4m/s.
9. Do not fly in humidity higher than 95% RH.

12. INFORMATION OF BATTERIES

1. Use only the batteries specified in the manual.
2. Do not use old or damaged batteries.
3. Do not use different brands of batteries.
4. Do not use batteries with different capacities.
5. Do not use batteries with different voltages.

13. NOTICE

1. The charge used with this toy is required to be designed to be used with other parts, and the use of other parts may cause damage to the toy. Please refer to the user manual for more information.

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2.4GHz

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2. THE INSTALLATION OF BATTERY OF REMOTE CONTROL DEVICE

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NOTE:
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1. Connect the USB cable to the PC and the USB cable to the USB port of the drone.
2. Turn on the power switch of the drone.
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4. QUADROPTER ASSEMBLING

1. Remove the propellers, propeller guards and propeller nuts.
2. Turn the motor clockwise until the propeller is locked. Then insert the propeller into the motor. (Note: The propeller must be inserted in the correct direction.)
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1. Do not fly over people or crowded areas.
2. Do not fly near airports or military bases.
3. Do not fly in restricted airspace.
4. Do not fly in bad weather.
5. Do not fly for more than 12 minutes.
6. Do not fly higher than 120m.
7. Do not fly faster than 15m/s.
8. Do not fly in wind speed higher than 4m/s.
9. Do not fly in humidity higher than 95% RH.

12. INFORMATION OF BATTERIES

1. Use only the batteries specified in the manual.
2. Do not use old or damaged batteries.
3. Do not use different brands of batteries.
4. Do not use batteries with different capacities.
5. Do not use batteries with different voltages.

13. NOTICE

1. The charge used with this toy is required to be designed to be used with other parts, and the use of other parts may cause damage to the toy. Please refer to the user manual for more information.

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END OF REPORT