

TEST REPORT

Report No.: **RSZ191202K7363E**

Date: December 05, 2019

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KIDdesigns Inc.

1299 Main Street, Rahway NJ 07065, U.S.A

Report on the submitted samples said to be:

Sample Description:	DISNEY FROZEN WALKIE TALKIES ; NICKELODEON PAW PATRIK WALKIE TALKIES
Style/Item No.:	FR-V200, FR-V200.U3Xv9M ; PW-V200, PW-V200.EXv8, PW-V200.UEXv8 (PW-V302.11Xv0)
Country of Origin:	CHINA
Country of Destination:	EU
Sample Receiving Date:	December 02,2019
Testing Period:	December 02,2019 - December 05,2019
Result:	Pass

Signed for and on behalf of

BACL



Checked by: _____

May Chen
Engineer



Approved by: _____

Lance Lee
Lab vice-Manager



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Summary of Test Result:

TEST REQUEST

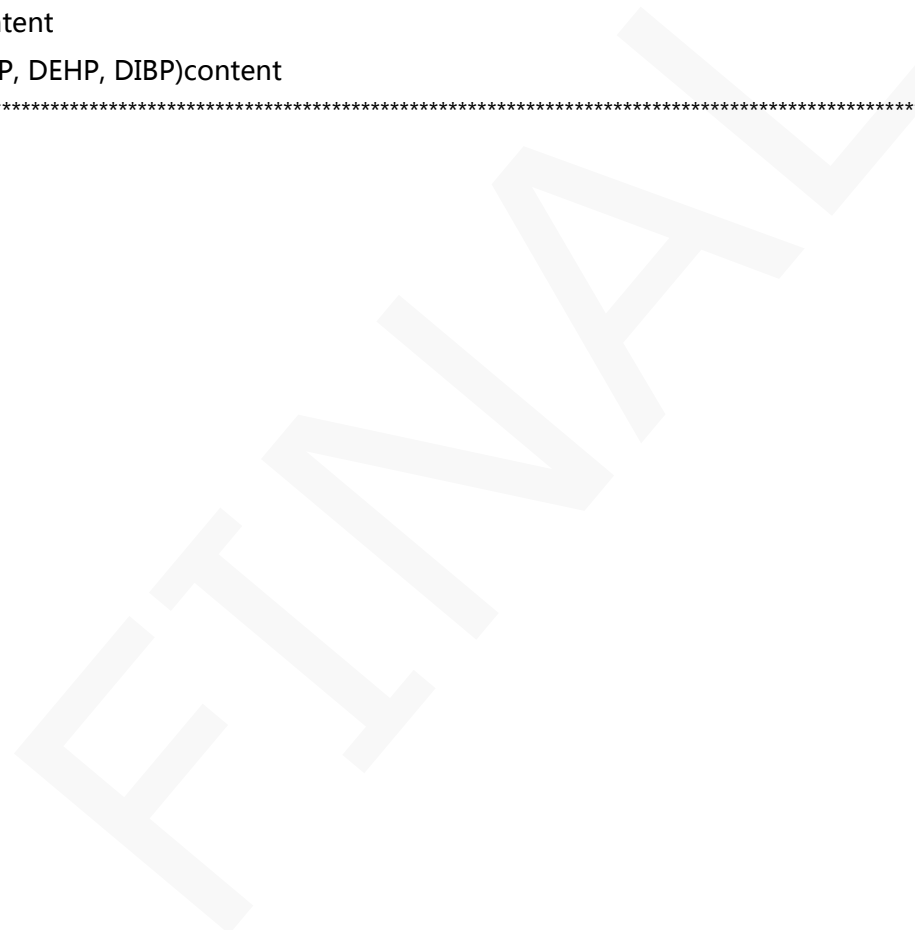
CONCLUSION

RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates(DBP, BBP, DEHP, DIBP)content

A XRF screening test Pass

B Wet Chemical Testing
1.PBBs & PBDEs content Pass

C Phthalates(DBP, BBP, DEHP, DIBP)content Pass



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Result:

Tested part(s):

- (1) White coating (case)
- (2) Blue plastic (case)
- (3) Silvery metal (screw)
- (4) Transparent plastic (washer , screw , semi product)
- (5) Silvery metal (nut , screw)
- (6) Transparent plastic (cover , label)
- (7) Multi color printed white paper (label)
- (8) White plastic (antenna)
- (9) White plastic (button)
- (10) White plastic (washer , screw)
- (11) Black soft plastic (cover , connector , battery)
- (12) Silvery metal (contact plate , connector , battery)
- (13) Brown paper (holder , contact plate , connector , battery)
- (14) Coppery metal (connector , wire , main PCB)
- (15) Red soft plastic (wire jacket , main PCB)
- (16) Black soft plastic (wire jacket , main PCB)
- (17) Silvery metal (wire , main PCB)
- (18) Yellow soft plastic (wire jacket , main PCB)
- (19) Green plastic (case , speaker)
- (20) Transparent plastic (diaphragm , speaker)
- (21) Coppery metal (coil , speaker)
- (22) Silvery metal (cover , magnet , speaker)
- (23) Black magnet (speaker)
- (24) Silvery metal (base , magnet , speaker)
- (25) Brown plastic with coppery metal (PCB , speaker)
- (26) Silvery solder (PCB , speaker)
- (27) Silvery metal (spring , antenna)
- (28) Silvery solder (spring , antenna , raw material)
- (29) Multi printed green coated white ceramic (resistor , main PCB)
- (30) Silvery metal (pin , main PCB)
- (31) Silvery metal (cover , switch , main PCB)

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- (32) Black plastic (handle , switch , main PCB)
- (33) Silvery metal (slider , switch , main PCB)
- (34) Brown fiberboard (base , switch , main PCB)
- (35) Silvery metal (pin , switch , main PCB)
- (36) Silvery metal (cover , button , main PCB)
- (37) Black plastic (button , main PCB)
- (38) Black plated silvery metal (spring , button , main PCB)
- (39) Silvery metal (slider , button , main PCB)
- (40) Brown fiberboard (base , button , main PCB)
- (41) Silvery metal (pin , button , main PCB)
- (42) Silvery metal (pin , capacitor , main PCB , semi product)
- (43) Dull silvery metal (foil , capacitor , main PCB , semi product)
- (44) Silvery metal (foil , capacitor , main PCB , semi product)
- (45) Brown paper (capacitor , main PCB , semi product)
- (46) Black soft plastic (base , capacitor , main PCB , semi product)
- (47) Silvery metal (case , capacitor , main PCB , semi product)
- (48) Grey printed green plastic (sleeve , capacitor , main PCB , semi product)
- (49) Dark white plastic (coil holder , transformer , main PCB)
- (50) Red plated coppery metal (coil , transformer , main PCB)
- (51) Black core (body , transformer , main PCB)
- (52) Silvery body (crystal oscillator , main PCB)
- (53) Black coated transparent / coppery body (glass diode , main PCB)
- (54) Brown body (SMD capacitor , main PCB)
- (55) Black / white body (SMD resistor , main PCB)
- (56) Black body (triode , main PCB)
- (57) Black body (IC , main PCB)
- (58) White printed green coated brown plastic with coppery metal (main PCB)
- (59) Silvery solder (main PCB)
- (60) Dark white coating (case)
- (61) Deep blue plastic (case)
- (62) Multi color printed white paper (dog label)
- (63) Grey plastic (antenna)
- (64) Grey plastic (button)

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(65) Grey plastic (washer , screw)

Remark: As the declaration of same material by client, the data of test parts (1)-(59) in this report were cited the data of test parts (1)-(59) from the test report No. RSZ190815K4820E-M1. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.

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A XRF screening test

Test method: IEC 62321-3-1:2013

Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(1)	BL	BL	BL	BL	BL
(2)	BL	BL	BL	BL	BL
(3)	BL	BL	BL	BL	--
(4)	BL	BL	BL	BL	BL
(5)	BL	BL	BL	BL	--
(6)	BL	BL	BL	BL	BL
(7)	BL	BL	BL	BL	BL
(8)	BL	BL	BL	BL	BL
(9)	BL	BL	BL	BL	BL
(10)	BL	BL	BL	BL	BL
(11)	BL	BL	BL	BL	BL
(12)	BL	BL	BL	BL	--
(13)	BL	BL	BL	BL	BL
(14)	BL	BL	BL	BL	--
(15)	BL	BL	BL	BL	BL
(16)	BL	BL	BL	BL	BL
(17)	BL	BL	BL	BL	--
(18)	BL	BL	BL	BL	BL
(19)	BL	BL	BL	BL	BL
(20)	BL	BL	BL	BL	BL
(21)	BL	BL	BL	BL	--
(22)	BL	BL	BL	BL	--
(23)	BL	BL	BL	BL	BL
(24)	BL	BL	BL	BL	--
(25)*	BL	BL	BL	BL	X
(26)	BL	BL	BL	BL	--
(27)	BL	BL	BL	BL	--
(28)	BL	BL	BL	BL	--
(29)	BL	BL	BL	BL	--

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(30)	BL	BL	BL	BL	--
(31)	BL	BL	BL	BL	--
(32)	BL	BL	BL	BL	BL
(33)	BL	BL	BL	BL	--
(34)	BL	BL	BL	BL	BL
(35)	BL	BL	BL	BL	--
(36)	BL	BL	BL	BL	--
(37)	BL	BL	BL	BL	BL
(38)	BL	BL	BL	BL	--
(39)	BL	BL	BL	BL	--
(40)	BL	BL	BL	BL	BL
(41)	BL	BL	BL	BL	--
(42)	BL	BL	BL	BL	--
(43)	BL	BL	BL	BL	--
(44)	BL	BL	BL	BL	--
(45)	BL	BL	BL	BL	BL
(46)	BL	BL	BL	BL	BL
(47)	BL	BL	BL	BL	--
(48)	BL	BL	BL	BL	BL
(49)	BL	BL	BL	BL	BL
(50)	BL	BL	BL	BL	--
(51)	BL	BL	BL	BL	BL
(52)	BL	BL	BL	BL	BL
(53)*1	OL(16606)	BL	BL	BL	--
(54)	BL	BL	BL	BL	BL
(55)	BL	BL	BL	BL	BL
(56)	BL	BL	BL	BL	BL
(57)	BL	BL	BL	BL	BL
(58)	BL	BL	BL	BL	BL
(59)	BL	BL	BL	BL	--
(60)	BL	BL	BL	BL	BL

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(61)	BL	BL	BL	BL	BL
(62)	BL	BL	BL	BL	BL
(63)	BL	BL	BL	BL	BL
(64)	BL	BL	BL	BL	BL
(65)	BL	BL	BL	BL	BL

Note:

-- = Not Applicable.

* = Screening by XRF and detected by chemical method. The test result of chemical method please refer to next pages.

*1 = As claimed by the material declaration submitted by the client, the materials of the sample No. 53 is glass of electronic components . And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.

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Remark:

i Result were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

Note:

BL = Below Limit

OL = Over Limit

IN / X = Inconclusive (questionable, need further chemical analysis)

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

iii The maximum permissible limit is quoted from the RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result 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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B Wet Chemical Testing

1.PBBs & PBDEs content

Test method: IEC 62321-6:2015

Item	Unit	MDL	Result	Limit
			(25)	
Monobromobiphenyl (MonoBB)	mg/Kg	5	N.D.	-
Dibromobiphenyl(DiBB)	mg/Kg	5	N.D.	-
Tribromobiphenyl(TriBB)	mg/Kg	5	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/Kg	5	N.D.	-
Pentabromobiphenyl(PentaBB)	mg/Kg	5	N.D.	-
Hexabromobiphenyl(HexaBB)	mg/Kg	5	N.D.	-
Heptabromobiphenyl (HeptaBB)	mg/Kg	5	N.D.	-
Octabromobiphenyl(OctaBB)	mg/Kg	5	N.D.	-
Nonabromobiphenyl(NonaBB)	mg/Kg	5	N.D.	-
Decabromobiphenyl(DecaBB)	mg/Kg	5	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/Kg	5	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/Kg	5	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/Kg	5	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/Kg	5	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/Kg	5	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/Kg	5	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/Kg	5	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/Kg	5	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/Kg	5	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/Kg	5	N.D.	-

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Item	Unit	MDL	Result		Limit
			(25)		
sum of OctaBDE,DecaBDE,NonaBDE,HexaBDE,MonoBDE,DiBDE,TriBDE,PentaBDE,TetraBDE,HeptaBDE	mg/Kg	-	/		1000
sum of OctaBB,NonaBB,TriBB,DecaBB,TetraBB,MonoBB,DiBB,PentaBB,HexaBB,HeptaBB	mg/Kg	-	/		1000
Conclusion	/	/	Pass		/

C Phthalates(DBP, BBP, DEHP, DIBP)content

Test method: IEC 62321-8:2017

Item	Unit	MDL	Result						Limit
			(1)	(2)+(6)+(8)	(4)	(9)+(10)+(19)	(11)+(49)	(15)+(16)+(18)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	172	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(20)+(32)+(37)	(46)+(48)	(60)	(61)	(63)+(64)+(65)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Note:

- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit
- "+" = Composite testing.
- The Result less than MDL are not taken into account while calculating the sum contents.

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Photograph of Sample



BACL authenticate the photo on original report only

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Statement:

- 1.This report cannot be reproduced except in full, without prior written approval of the Company.
- 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
- 3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
- 4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
- 6.The test samples were in good condition before testing.

*** End of Report ***