CONSUMER PRODUCTS SERVICES DIVISION

KIDDESIGNS INC (HK)

Technical Report: **(5221)118-0807** May 13, 2021
Date Received: April 28, 2021

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8 HOK CHEUNG STREET
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HONG KONG

Sample Description:	NICKELODEON PAW PATROL BLUETOOTH WIRELESS HEADPHONES		
Vendor:	N/A	Sample Size:	6
Manufacturer:	/	Style No(s):	(PW-B52CH) PW-B52CH.EXV1
Buyer:	N/A	SKN/SKU No.:	N/A
Labeled Age Grade:	NOT PRESENT	PO No.:	N/A
Appropriate Age Grade:	CHILDREN PRODUCTS, OVER 6 YEARS OF AGE	Ref #:	/
Client Specified Age Grade:	NOT SPECIFIED	Country of Origin:	CHINA
Tested Age Grade:	CHILDREN PRODUCTS, OVER 6 YEARS OF AGE	Assortment No.:	N/A
UPC Code:	092298953533	Protocol No.:	CPSD-AN-06572.01-USA

EXECUTIVE SUMMARY:

The sample(s) MEET the following requirement(s):

- The mechanical hazards requirements of 16 CFR 1500, “Federal Hazardous Substances Act Regulations”.
- The flammability requirements of 16 CFR 1500.3(c)(6)(vi), "Flammable solid" (FHSA regulations).
- The soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).
- The initial total heavy metals content analysis for soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).
- The total lead content requirement in plastic coated cords according to the California Proposition 65 settlements of San Francisco Superior Court 312962.
- The total lead content requirements in chargers, headphones, headsets and splitters according to the California Proposition 65 settlements of Los Angeles Superior Court, BC 451036, BC 463718, BC 475262.
- The total lead content requirements in computer and electronics accessories according to the California Proposition 65 settlements of San Francisco Superior Court CGC-09-485784.

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EXECUTIVE SUMMARY:

The sample(s) MEET the following requirement(s):

- The DEHP and DINP content requirement in bluetooth headphones, headphones and earphones according to the California Proposition 65 settlement of Alameda Superior Court RG17851900 and Los Angeles Superior Court BC668988.

- The BBP, DBP & DEHP content requirement in computer and electronics accessories according to the California Proposition 65 settlements of San Francisco Superior Court CGC-09-485784.

- The BBP, DBP, DEHP, DnHP and DIDP content requirements in headphone cables according to the California Proposition 65 settlements of County of San Mateo case number 474817.

- The total lead content requirements in children products according to the California Proposition 65 settlements of Alameda Superior Court RG 07356892.

- The phthalates (BBP, DBP, DEHP, DINP, DIBP, DPENP, DHEXP & DCHP) content requirements of the Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) and 108(c), 16 CFR 1307).

- The total lead content of 100ppm requirements by composite testing in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).

- The total lead content of 90ppm requirements of 16 CFR 1303, “Ban of lead-containing paint and certain consumer products bearing lead-containing paint” as mandated by Congress in section 101(f) of the Consumer Products Safety Improvement Act (CPSIA) of 2008, Public Law 110-314.

- The DEHP and DINP content requirements in binders according to the California Proposition 65 settlements of Vinocur Out of Court Settlement 2018-08-14.

Note: According to the associated documents of Consumer Product Safety Improvement Act (CPSIA) of 2008, exemptions were granted to certain materials or products, such as natural materials / paper and similar materials / CMYK process printing inks / metal & alloys / electronics devices components / ordinary books / dyed & undyed textiles. Therefore, the lead content analysis of some components was not conducted.

Note: The received sample(s) contained accessible material(s) of less than 10 milligrams by weight on one single sample, therefore such material(s) was not subject to the heavy metals analysis of ASTM F963-17, “Standard consumer safety specification on toy safety”, Section 4.3.5.1(2) and 4.3.5.2, as specified in Section 8.3.3.6(2) and Section 8.3.5.3(2).

Note: Insufficient surface coatings were found on the submitted samples. Therefore, the heavy metals tests were conducted on the submitted wet paints.

BUREAU VERITAS HONG KONG LIMITED

Lai Ka Ming, Kent
Director
Toys and Juvenile Products Department

KL/sz

RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety". Annex A1
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.

USE AND ABUSE TESTS

The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable		
Test	**Test Parameters**	**Standard Reference**
Impact Test	4 x 3 ft	1500.53(b)
Torque Test	4 in-lbs	1500.53(e)
Tension Test	15 lbs	1500.53(f)
Compression Test	30 lbs	1500.53(g)

RESULTS:

PHYSICAL AND MECHANICAL HAZARDS (FHSA 16 CFR 1500)

Part	Requirement	Result
16 CFR 1500.47 & 1500.86(a)(6)	Sound Pressure Level – Toy Cap	N/A
16 CFR 1501	Small Parts	N/A
16 CFR 1500.49	Sharp Edges	M
16 CFR 1500.48	Sharp Points	M
16 CFR 1511	Pacifier	N/A
16 CFR 1510	Rattles	N/A
16 CFR 1500.18(a)(17)	Small Ball	N/A
16 CFR 1500.19	Small Objects, Small Balls, Marbles and Balloons	N/A
16 CFR 1500.86	Toy Caps	N/A
16 CFR 1500.14(b)(8)	Art Materials	N/A

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

FLAMMABILITY (16 CFR SECTION 1500.3(c)6)(vi))

Requirement	Test Method Reference	Findings
Burn rate no greater than 0.1 of an inch per second	16 CFR 1500.44	Most rapid burn rate not exceed 0.1 of an inch per second.

RESULTS:

PHTHALATES CONTENT IN CHILDREN`S TOYS AND CHILD CARE ARTICLES (Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108(a) and 108(c), 16 CFR 1307)

Test Method: With reference to U. S. CPSC-CH-C1001-09.3 (April 1, 2010) / CPSC-CH-C1001-09.4 (January 17, 2018).

Sample Identity	Color / Component	Location	Style
A.	white coating	words, wet paint	
B.	grey printed blue plastic	body	
C.	yellow plastic	band & ear cups	
D.	clear laminated multicolor printed white paper sticker	sticker	
E.	black soft plastic/ grey soft plastic/ black fabric	band, ear cups	
F.	clear plastic	light of ear cups	
G.	black soft plastic	radio cord	
H.	dull black soft plastic	end of plug of radio cord	
I.	bright black soft plastic matt black soft plastic flat black soft plastic	USB cord end of small plug of USB cord end of large plug of USB	
J.	bright black plastic	pin of plug of radio cord	
K.	dull black plastic white plastic	small plug of USB cord large plug of USB cord	
L.	black plastic off black plastic	end of small plug of USB cord end of large plug of USB	

RESULTS:

PHTHALATES CONTENT IN CHILDREN`S TOYS AND CHILD CARE ARTICLES (Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108(a) and 108(c), 16 CFR 1307)

Test Parameter:	Listed Phthalates (See Remark)		
Requirement:	Each 0.1%		
Sample ID	Detected Analyte	Concentration (%)	Conclusion
A.	ND	ND	PASS
B.	ND	ND	PASS
C.	ND	ND	PASS
D.	ND	ND	PASS
E.	ND	ND	PASS
F.	ND	ND	PASS
G.	ND	ND	PASS
H.	ND	ND	PASS
I.	ND	ND	PASS
J.	ND	ND	PASS
K.	ND	ND	PASS
L.	ND	ND	PASS

Results reported in percentage
ND = None detected
Detection Limit: Each Phthalate (0.005%)

LIST OF RESTRICTED PHTHALATES		
Number	Chemical Name	CAS Number
1.	Butyl benzyl phthalate (BBP)	85-68-7
2.	Dibutyl phthalate (DBP)	84-74-2
3.	Di(2-ethylhexyl) phthalate (DEHP)	117-81-7
4.	Di-iso-nonyl phthalate (DINP)	28553-12-0 & 68515-48-0
5.	Di-iso-butyl phthalate (DIBP)	84-69-5
6.	Di-n-pentyl phthalate (DPENP or DnPP)	131-18-0
7.	Di-n-hexyl phthalate (DHEXP or DnHP)	84-75-3
8.	Dicyclohexyl phthalate (DCHP)	84-61-7

RESULTS:

BBP/DBP/DEHP/DnHP/DIDP PHTHALATES CONTENT REQUIREMENTS IN HEADPHONE CABLES (California Proposition 65 settlements of County of San Mateo case number 474817)

	Color / Component	Location	Style
A.	grey printed blue plastic	body	
B.	yellow plastic	band & ear cups	
C.	clear laminated multicolor printed white paper sticker	sticker	
D.	black soft plastic/ grey soft plastic/ black fabric	band, ear cups	
E.	clear plastic	light of ear cups	
F.	black soft plastic	radio cord	
G.	dull black soft plastic	end of plug of radio cord	
H.	bright black plastic	pin of plug of radio cord	

Test Parameter	BBP	DBP	DEHP	DnHP	DIDP	
Limit (%)	0.01	0.01	0.01	0.01	0.01	
Sample	Result (%)					Conclusion
A	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
B	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
C	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
D	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
E	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
F	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
G	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
H	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass

Detection Limit :
BBP = Butyl benzyl phthalate (0.005%)
DBP = Dibutyl phthalate (0.005%)
DEHP = Di(2-ethylhexyl) phthalate (0.005%)
DnHP = Di-n-hexyl phthalate (0.005%)
DIDP = Di-iso-decyl phthalate (0.005%)

Results reported in percentage
LT = Less than
ND = None detected

RESULTS:

DEHP AND DINP CONTENT REQUIREMENT IN BLUETOOTH HEADPHONES, HEADPHONES AND EARPHONES (California Proposition 65 settlement of Alameda Superior Court RG17851900 and Los Angeles Superior Court BC668988)

Analyte				DEHP	DINP	
Requirement: Maximum allowable limit: (%)				0.1	0.1	
Sample Description				Result	Result	Conclusion
	Color / Component	Location	Style	(%)	(%)	
A.	white coating	words, wet paint		LT 0.005	LT 0.005	Pass
B.	grey printed blue plastic	body		LT 0.005	LT 0.005	Pass
C.	yellow plastic	band & ear cups		LT 0.005	LT 0.005	Pass
D.	clear laminated multicolor printed white paper sticker	sticker		LT 0.005	LT 0.005	Pass
E.	black soft plastic/ grey soft plastic/ black fabric	band, ear cups		LT 0.005	LT 0.005	Pass
F.	clear plastic	light of ear cups		LT 0.005	LT 0.005	Pass
G.	black soft plastic	radio cord		LT 0.005	LT 0.005	Pass
H.	dull black soft plastic	end of plug of radio cord		LT 0.005	LT 0.005	Pass
I.	bright black plastic	pin of plug of radio cord		LT 0.005	LT 0.005	Pass

% = percentage by weight *LT = Less Than*
Detection limit :
DEHP = Diethylhexyl phthalate (0.005%)
DINP = Di-iso-nonyl Phthalate (0.005%)

RESULTS:

PHTHALATES CONTENT REQUIREMENT IN COMPUTER AND ELECTRONICS ACCESSORIES (California Proposition 65 settlements of San Francisco Superior Court CGC-09-485784)

	Color / Component	Location	Style
A.	white coating	words, wet paint	
B.	grey printed blue plastic	body	
C.	yellow plastic	band & ear cups	
D.	clear laminated multicolor printed white paper sticker	sticker	
E.	black soft plastic/ grey soft plastic/ black fabric	band, ear cups	
F.	clear plastic	light of ear cups	
G.	black soft plastic	radio cord	
H.	dull black soft plastic	end of plug of radio cord	
I.	bright black plastic	pin of plug of radio cord	

Test Parameter:	BBP	DBP	DEHP	
Limit (%):	0.1	0.1	0.1	
Sample	Result (%)			Conclusion
A.	LT 0.005	LT 0.005	LT 0.005	Pass
B.	LT 0.005	LT 0.005	LT 0.005	Pass
C.	LT 0.005	LT 0.005	LT 0.005	Pass
D.	LT 0.005	LT 0.005	LT 0.005	Pass
E.	LT 0.005	LT 0.005	LT 0.005	Pass
F.	LT 0.005	LT 0.005	LT 0.005	Pass
G.	LT 0.005	LT 0.005	LT 0.005	Pass
H.	LT 0.005	LT 0.005	LT 0.005	Pass
I.	LT 0.005	LT 0.005	LT 0.005	Pass

Detection Limit :
BBP = Butyl benzyl phthalate (0.005%)
DBP = Dibutyl phthalate (0.005%)
DEHP = Di(2-ethylhexyl) phthalate (0.005%)

Results reported in percentage
LT = Less than
ND = None detected

RESULTS:

DEHP and DINP PHTHALATES CONTENT REQUIREMENTS IN ELECTRONIC CABLES (California Proposition 65 settlements of Vinocur Out of Court Settlement 2018-08-14)

	Color / Component	Location	Style
A.	Composite of bright black soft plastic matt black soft plastic flat black soft plastic	 USB cord end of small plug of USB cord end of large plug of USB	
B.	dull black plastic white plastic	small plug of USB cord large plug of USB cord	
C.	black plastic off black plastic	end of small plug of USB cord end of large plug of USB	

Test Parameter	DEHP	DINP	
Limit (%)	0.1	0.1	
Sample	Result (%)		Conclusion
A.	ND	ND	PASS
B.	ND	ND	PASS
C.	ND	ND	PASS

Detection Limit :
DEHP = Di(2-ethylhexyl) phthalate (0.005%)
DINP = Di-iso-nonyl phthalate (0.005%)

Results reported in percentage
LT = Less than
ND = None detected

RESULTS:

TOTAL LEAD CONTENT IN PLASTIC COATED CORD (California Proposition 65 settlements of San Francisco Superior Court 312962)

Test Method: EPA 3051 Microwave digestion followed by Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Spectrometry

Analyte	Lead	
Requirement: Maximum allowable limit:	200 mg/kg	

Analyte				Lead (Pb)	Conclusion
Sample Description				Result (mg/kg)	
	Color / Component	Location	Style		
(A)	black soft plastic dull black soft plastic	radio cord end of plug of radio cord		LT 10	PASS
(B)	bright black soft plastic matt black soft plastic flat black soft plastic	USB cord end of small plug of USB cord end of large plug of USB		LT 10	PASS
(C)	black plastic off black plastic	end of small plug of USB cord end of large plug of USB		LT 10	PASS

LT = Less Than *mg/kg = milligrams per kilogram (ppm=parts per million)*
** = Average of duplicate analyses*

RESULTS:

TOTAL LEAD CONTENT IN CHARGERS, HEADPHONES, HEADSETS AND SPLITTERS (California Proposition 65 settlements of Los Angeles Superior Court, BC 451036, BC 463718, BC 475262)

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Spectrometry

Analyte	Lead	
Requirement: Maximum allowable limit:	100 mg/kg	

Analyte				Lead (Pb)	Conclusion
Sample Description				Result (mg/kg)	
	Color / Component	Location	Style		
(A)	white coating	words, wet paint		LT 10	PASS
(B)	grey printed blue plastic yellow plastic	Body band & ear cups		LT 10	PASS
(C)	clear laminated multicolor printed white paper sticker clear plastic	Sticker light of ear cups		LT 10	PASS
(D)	black soft plastic/ grey soft plastic/ black fabric	band, ear cups		LT 10	PASS
(E)	black soft plastic dull black soft plastic	radio cord end of plug of radio cord		LT 10	PASS

LT = Less Than *mg/kg = milligrams per kilogram (ppm=parts per million)*
** = Average of duplicate analyses*

RESULTS:

TOTAL LEAD CONTENT IN COMPUTER AND ELECTRONICS ACCESSORIES (California Proposition 65 settlements of San Francisco Superior Court CGC-09-485784)

Analyte	Lead	
Requirement: Maximum allowable limit:	100 mg/kg	

Analyte				Lead (Pb)	Conclusion
Sample Description				Result (mg/kg)	
	Color / Component	Location	Style		
(A)	white coating	words, wet paint		LT 10	PASS
(B)	grey printed blue plastic yellow plastic	Body band & ear cups		LT 10	PASS
(C)	clear laminated multicolor printed white paper sticker clear plastic	Sticker light of ear cups		LT 10	PASS
(D)	black soft plastic/ grey soft plastic/ black fabric	band, ear cups		LT 10	PASS
(E)	black soft plastic dull black soft plastic	radio cord end of plug of radio cord		LT 10	PASS

LT = Less Than *mg/kg = milligrams per kilogram (ppm=parts per million)*
** = Average of duplicate analyses*

RESULTS:

TOTAL LEAD CONTENT IN SURFACE COATING BY COMPOSITE TESTING ("Ban of Lead-containing paint and certain consumer products bearing Lead-containing paint", Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1003.09.1:2011

Element:				Lead		
Requirement: Maximum allowable limit:				90 mg/kg		
Sample Description				Result (mg/kg)		Conclusion
Color / Component		Location	Style	Overall	Potential	
(A)	white coating	words, wet paint		LT 10	-	PASS

LT = Less Than
** = Average of duplicate analyses*
mg/kg = milligrams per kilogram (ppm = parts per million)
Potential = Estimated lead content per component is based on calculation by component individual weight

TOTAL LEAD CONTENT IN SUBSTRATE BY COMPOSITE TESTING (100PPM) (Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1001-08.3:2012 or U.S. CPSC-CH-E1002-08.3:2012

Analyte	Lead	
Requirement: Maximum allowable limit:	100 mg/kg	

Analyte				Lead (Pb)	Conclusion
Sample Description				Result (mg/kg)	
Color / Component		Location	Style		
(A)	grey printed blue plastic yellow plastic	Body band & ear cups		LT 10	PASS
(B)	clear laminated multicolor printed white paper sticker clear plastic	Sticker light of ear cups		LT 10	PASS
(C)	black soft plastic/ grey soft plastic/ black fabric	band, ear cups		LT 10	PASS
(D)	black soft plastic dull black soft plastic	radio cord end of plug of radio cord		LT 10	PASS
(E)	bright black soft plastic matt black soft plastic flat black soft plastic	USB cord end of small plug of USB cord end of large plug of USB		LT 10	PASS
(F)	black plastic off black plastic	end of small plug of USB cord end of large plug of USB		LT 10	PASS

LT = Less Than
** = Average of duplicate analyses*
mg/kg = milligrams per kilogram (ppm = parts per million)

RESULTS:

TOTAL LEAD CONTENT IN CHILDREN PRODUCTS (California Proposition 65 settlements of Alameda Superior Court RG 07356892)

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Spectrometry

		Maximum allowable limit	
Analyte		Lead	
Type 1	Paint and surface coatings	90 mg/kg	
Type 2	Substrate materials	100 mg/kg	

Analyte				Lead (Pb)	Conclusion
Sample Description				Result (mg/kg)	
	Color / Component	Location	Style		
Type 1: Paint and surface coatings					
(A)	white coating	words, wet paint		LT 10	PASS
Type 2: Substrate materials					
(B)	grey printed blue plastic yellow plastic	Body band & ear cups		LT 10	PASS
(C)	clear laminated multicolor printed white paper sticker clear plastic	Sticker light of ear cups		LT 10	PASS
(D)	black soft plastic/ grey soft plastic/ black fabric	band, ear cups		LT 10	PASS
(E)	black soft plastic dull black soft plastic	radio cord end of plug of radio cord		LT 10	PASS
(F)	bright black soft plastic matt black soft plastic flat black soft plastic	USB cord end of small plug of USB cord end of large plug of USB		LT 10	PASS
(G)	black plastic off black plastic	end of small plug of USB cord end of large plug of USB		LT 10	PASS

LT = Less Than *mg/kg = milligrams per kilogram (ppm=parts per million)*
** = Average of duplicate analyses*

RESULTS:

TOTAL HEAVY METALS CONTENT – INITIAL ANALYSIS FOR SOLUBLE HEAVY METALS CONTENT IN SUBSTRATE (ASTM F963-17, Section 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Sample Identity	Color	Location	Style
Type I: Substrate other than modeling clay			
A.	grey printed blue plastic yellow plastic	Body band & ear cups	
B.	clear laminated multicolor printed white paper sticker clear plastic	Sticker light of ear cups	
C.	black soft plastic/ grey soft plastic/ black fabric	band, ear cups	
D.	black soft plastic dull black soft plastic	radio cord end of plug of radio cord	
E.	bright black soft plastic matt black soft plastic flat black soft plastic	USB cord end of small plug of USB cord end of large plug of USB	
F.	bright black plastic dull black plastic white plastic	pin of plug of radio cord small plug of USB cord large plug of USB cord	
G.	black thread/ blue fabric	ear cups	
H.	black plastic off black plastic	end of small plug of USB cord end of large plug of USB	

RESULTS:

TOTAL HEAVY METALS CONTENT – INITIAL ANALYSIS FOR SOLUBLE HEAVY METALS CONTENT IN SUBSTRATE (ASTM F963-17, Section 4.3.5.2(2)(b))

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	
Max. Limit Type I (mg/kg)	25	1000	75	60	60	90	60	500	
Max. Limit Type II (mg/kg)	25	250	50	25	25	90	60	500	

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Sample	Result (mg/kg)								
A	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	PASS
B	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	PASS
C	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	64	LT 10	DATA
D	LT 7	13	LT 10	11	LT 5	LT 10	LT 10	LT 10	PASS
E	LT 7	20	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	PASS
F	LT 7	934	LT 10	8	LT 5	LT 10	149	LT 10	DATA
G	LT 7	76	LT 10	LT 7	LT 5	LT 10	100	LT 10	DATA
H	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	PASS

mg/kg = milligrams per kilogram (ppm=parts per million)
LT = Less Than
ND = None Detected
Detection limit (mg/kg): As and Cr = 7, Hg = 5, other elements = 10

As = Arsenic, Ba = Barium, Cd = Cadmium,
Cr = Chromium, Hg = Mercury, Pb = Lead,
Sb = Antimony, Se = Selenium

Remark:
Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein is for client's reference only.
On an initial analysis for soluble heavy metals content, any individually tested component of greater than the set limit or any composite tested components of greater than 80% of the set limit, the result is inconclusive for the requirement and therefore were retested with soluble heavy metals analysis of ASTM F963-17, Sections 8.3.5 (excluding 8.3.5.5(3)) as specified in Section 8.3.1.3. The result herein is for reference only (show data), please refer to soluble heavy metals content analysis for the corresponding conclusive results.

RESULTS:

SOLUBLE HEAVY METALS CONTENT IN SUBSTRATE (ASTM F963-17, Section 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3))

Sample Identity	Color	Location	Style
Type I: Substrate other than modeling clay			
A	black soft plastic/ grey soft plastic/ black fabric	band, ear cups	
B	black thread/ blue fabric	ear cups	
C	bright black plastic	pin of plug of radio cord	
D	dull black plastic	small plug of USB cord	
E	white plastic	large plug of USB cord	

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit Type I (mg/kg)	25	1000	75	60	60	90	60	500
Max. Limit Type II (mg/kg)	25	250	50	25	25	90	60	500
Analytical Correction	60%	30%	30%	30%	50%	30%	60%	60%

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Sample	Result (mg/kg)								(g)	
A	LT 2	2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
B	LT 2	8	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
C	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
D	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0335	PASS
E	LT 2	3	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS

mg/kg = milligrams per kilogram (ppm=parts per million)
CR = adjusted analytical result
LT = Less Than
ND = None Detected

As = Arsenic, Ba = Barium, Cd = Cadmium,
Cr = Chromium, Hg = Mercury, Pb = Lead,
Sb = Antimony, Se = Selenium
Detection limit (mg/kg): Each element 2

Remark:
Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein is for client's reference only.

RESULTS:

