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Applicant: Xindao B.V.

Address: P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

Report on the submitted sample(s) said to be:

Sample Name: Vogue Headphone

Sample Model: P326.542

Sample Received Date: Aug.30, 2017

Testing Period: Aug.30, 2017 to Sep.06, 2017

Test Requested: Please refer to following page(s).

Test Method: Please refer to following page(s).

Test Result: Please refer to following page(s).

Tested by: Mo Xiao

Luoxiao

Suhongliang, Leon

Reviewed by:

Test Engineer Test Team Leader

Approved by:

Jiangyuncheng, Jason

Laboratory Manager



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Test Requested: Conclusion

As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs content in the submitted sample in accordance with EU RoHS Directive 2011/65/EU(RoHS) and its amendment directives on XRF and Chemical Method.

Pass

Test Methods:

A: <u>Screening by X-ray Fluorescence Spectrometry (XRF)</u>: With reference to IEC 62321-3-1:2013 Ed 1.0 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

B: Chemical test:

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg

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Test Results:

A, EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Seq.	T-4-1D-40	TILL.	Results(mg/kg)				
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br	
1	Black plastic head frame(head frame)	BL	BL	BL	BL	BL	
2	Black leather head frame(head frame)	BL	BL	BL	BL	BL	
3	White foam(head frame)	BL	BL	BL	BL	BL	
4	Gray frame cloth(head frame)	BL	BL	BL	BL	BL	
5	Silver metal telescopic frame(Telescopic frame)	BL	BL	BL	BL	- ////	
6	Silver coating(Telescopic frame)	BL	BL	BL	BL	BL	
7	Black plastic ear shell	BL	BL	BL	BL	X*	
8	Silver screw	BL	BL	BL	BL	- 1	
9	Black leather(Earmuff)	BL	BL	BL	BL	BL	
10	Blue Sponge(Earmuff)	BL	BL	BL	BL	BL	
11	Black mesh cloth(Earmuff)	BL	BL	BL	BL	BL	
12	Silver screw	BL	BL	BL	BL	glance _	
13	Copper card	BL	BL	BL	BL	-G	
14	Black wire leather(Connecting line)	BL	BL	BL	BL	BL	
15	Brown enameled wire(Connecting line)	BL	BL	BL	BL	平 环-10	
16	Red enameled wire(Connecting line)	BL	BL	BL	BL	allon G	
17	Black plastic shell(horn)	BL	BL	BL	BL	BL	
18	Black dust-proof net(horn)	BL	BL	BL	BL	BL	
19	Magnetic shield(horn)	BL	BL	BL	BL	G-*	
20	Tin solder(horn)	BL	BL	BL	BL	-	
21	PCB board(horn)	BL	BL	BL	BL	X*	
22	Black rubber(horn)	BL	BL	BL	BL	X*	
23	Red wire leather(horn)	BL	BL	BL	BL	BL	
24	Wire core(horn)	BL	BL	BL	BL	-	

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Seq.	Tostad Powt(s)	Results(mg/kg)					
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br	
25	Black wire leather(horn)	BL	BL	BL	BL	BL	
26	Diaphragm(horn)	BL	BL	BL	BL	BL	
27	Enameled wire(horn)	BL	BL	BL	BL	-	
28	magnet(horn)	BL	BL	BL	BL	BL	
29	Patch LED	BL	BL	BL	BL	BL	
30	IC Ontology(IC)	BL	BL	BL	BL	BL	
31	Pin(IC)	BL	BL	BL	BL	mplance _	
32	chip inductor	BL	BL	BL	BL	BL	
33	PCB board	BL	BL	BL	BL	X*	
34	Tin solder	BL	BL	BL	BL	The Table of the State of the S	
35	SMD crystal	BL	BL	BL	X*	BL	
36	Metal shell(Micro joint)	BL	BL	BL	BL	-	
37	Black plastic joint(Micro joint)	BL	BL	BL	BL	BL	
38	Pin(Micro joint)	BL	BL	BL	BL	8 4	
39	Black plastic button(Tact Switch)	BL	BL	BL	BL	BL	
40	metal sheet(Tact Switch)	BL	BL	BL	BL	不包	
41	Shrapnel(Tact Switch)	BL	BL	BL	X*	ation of Globa	
42	White plastic seat(Tact Switch)	BL	BL	BL	BL	BL	
43	Black rubber sleeve(Microphone)	BL	BL	BL	BL	BL	
44	Black dust-proof net(Microphone)	BL	BL	BL	BL	BL	
45	copper shell(Microphone)	BL	BL	BL	BL	<u> </u>	
46	Diaphragm(Microphone)	BL	BL	BL	BL	BL	
47	PCB board(Microphone)	BL	BL	BL	BL	X*	
48	White plastic ring(Microphone)	BL	BL	BL	BL	BL	
49	Hot melt adhesive(Microphone)	BL	BL	BL	BL	BL	
50	Black wire leather(Microphone)	BL 💨	BL	BL	BL	BL	

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Seq.	Tested Part(s)	Results(mg/kg)					
No.		Cd	Pb	Hg	Cr	Br	
51	Red wire leather(Microphone)	BL	BL	BL	BL	BL	
52	Brown tape(Battery)	BL	BL	BL	BL	BL	
53	Black foam(Battery)	BL	BL	BL	BL	BL	
54	Electric core(Battery)	BL	BL	BL	BL	BL	
55	Tin solder(Battery)	BL	BL	BL	BL	U .	
56	PCB board(Battery)	BL	BL	BL	BL	X*	
57	Black wire leather(Battery)	BL	BL	BL	BL	BL	
58	Wire core(Battery)	BL	BL	BL	BL	\ -C	
59	Red wire leather(Battery)	BL	BL	BL	BL	BL	
60	chip resistor(Battery)	BL	BL	BL	BL	BL	
61	SMD capacitor(Battery)	BL	BL	BL	BL	BL	
62	Patch IC(Battery)	BL	BL	BL	BL	BL	

Element	nt Unit Non-metal		Metal	Composite Material
Cd mg/kg		BL≤70-3σ <x <130+3σ≤OL</x 	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤50-3σ <x <150+3σ≤OL</x
Pb	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Hg	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td>C Management CC</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	C Management CC	BL≤250-3σ <x< td=""></x<>

BL= Below Limit

OL= Over limited

X= Inconclusive

"-"= Not regulated

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^{*=} Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.



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Remark:

- Results were obtained by XRF for primary scanning, 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 above warning value according to IEC 62321-3-1:2013 Ed 1.0.
- ii The XRF scanning 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 document 2005/618/EC amending 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 Scanning 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 scanning 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. The Test Results of Chemical Method:

1) The Test Results of non-metal Cr⁶⁺

Test Item(s)	Unit	Result(s)	Limit
Hexavalent Chromium(Cr ⁶⁺)	mg/kg	N.D.	1000

Note: N.D. = Not Detected or less than MDL

MDL = Method Detection Limit

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2)The Test Results of metal Cr⁶⁺

To de Marcella	MDI	Result(s)	T **4
Test Item(s)	MDL	41	Limit
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	# (

Note:

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit
- Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result			
1	The sample solution is <the 0,10="" cm<sup="" μg="">2 equivalent comparison standard solution</the>	The sample is negative for Cr(VI) – The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.			
2 2	The sample solution is \geq the 0,10 µg/cm ² and \leq the0,13 µg/cm ² equivalent comparison standard solutions				
3	The sample solution is > the 0,13 μg/cm ² equivalent comparison standard solution	The sample is positive for Cr(VI) – The Cr(VI) concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).			

- # =Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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3) The Test Results of PBBs & PBDEs

Unit:mg/kg

Ten (a)	MDI	1	lli.	Result(s)		III.	T . The New York	
Item(s)	MDL	7 21 22 33		33	47	Limit		
Polybrominated Biphenyls (P.	BBs)							
Monobromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.		
Dibromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.		
Tribromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	Comples (S)	
Tetrabromobiphenyl	The Sample 5	N.D.	N.D.	N.D.	N.D.	N.D.	Go	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.		
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	Total PBBs Content <1000	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	Content <1000	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	in the second	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	-ail	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	The state of the s	
Total content	/	N.D.	N.D.	N.D.	N.D.	N.D.	(i) Alterestation of Con-	
Polybrominated Diphenylethe	ers (PBDEs)							
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	-711	
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	The Completion	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	atalien of Global ®	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	V.G.C.	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	T. Indonesia	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	Total PBDEs Content <1000	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	Content < 1000	
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.		
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.		
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	也到	
Total content	1/2	N.D.	N.D.	N.D.	N.D.	N.D.	2G	
Conclusion	The company	Pass	Pass	Pass	Pass	Pass		

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Unit:mg/kg

Item(s)	MDL	Result(s)	Limit	
Techi(s)	The second street of the secon	56	Ejinit	
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	5	N.D.		
Dibromobiphenyl	5	N.D.		
Tribromobiphenyl	5	N.D.		
Tetrabromobiphenyl	1 5 3	N.D.		
Pentabromobiphenyl	5	N.D.	T I DDD G	
Hexabromobiphenyl	5	N.D.	Total PBBs Content <1000	
Heptabromobiphenyl	5	N.D.	1000	
Octabromobiphenyl	5	N.D.		
Nonabromodiphenyl	5	N.D.		
Decabromodiphenyl	5	N.D.		
Total content	The Island	N.D.		
Polybrominated Diphenylethers (PBDEs)				
Monobromodiphenyl ether	5	N.D.		
Dibromodiphenyl ether	5	N.D.		
Tribromodiphenyl ether	Th. 15	N.D.		
Tetrabromodiphenyl ether	§ 4 5	N.D.		
Pentabromodiphenyl ether	5	N.D.	T I DDDD G	
Hexabromodiphenyl ether	5	N.D.	Total PBDEs Content <1000	
Heptabromodiphenyl ether	5 1	N.D.	1000	
Octabromodiphenyl ether	5	N.D.		
Nonabromodiphenyl ether	5	N.D.		
Decabromodiphenyl ether	5	N.D.		
Total content	1 1	N.D.		
Conclusion	2 Th of Com	Pass	1000	

Note: N.D. = Not Detected or less than MDL

MDL = Method Detection Limit

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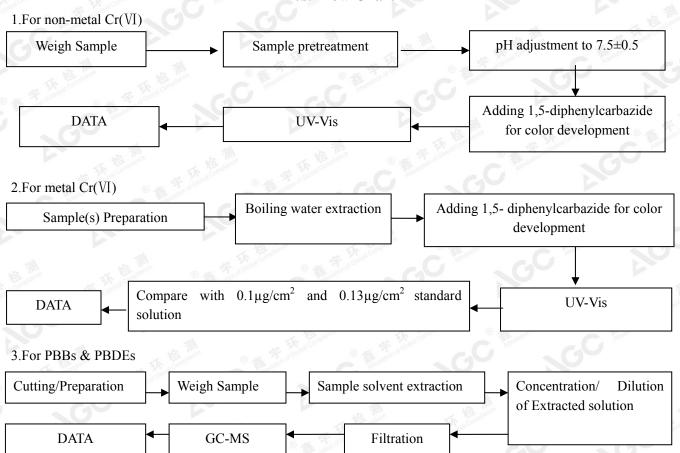
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Test Flow Chart



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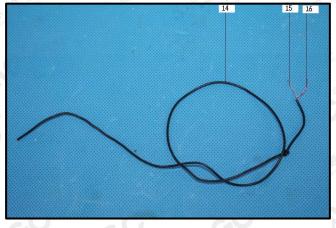
The photo of the sample

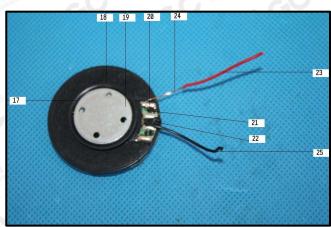


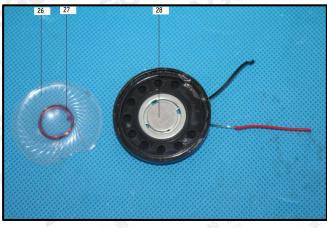
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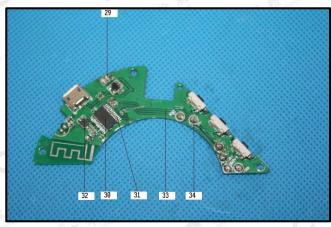


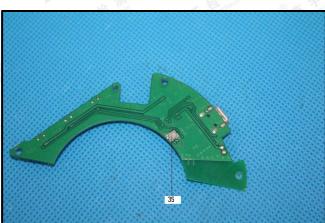
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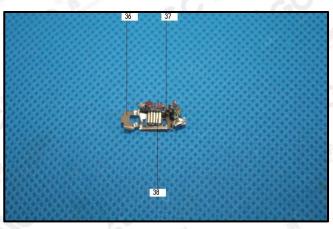








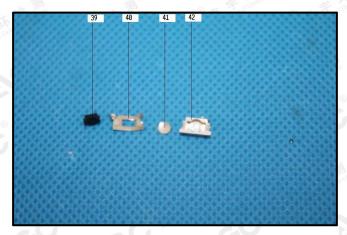


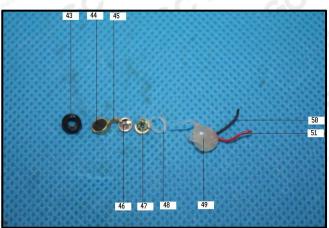


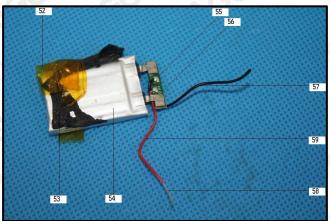
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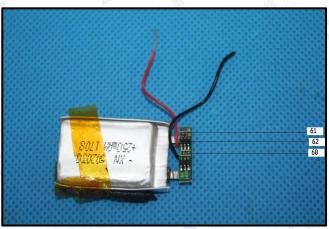


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