

Date : 05-Sep-2017

Page : 1 of 8

## **TEST REPORT**

APPLICANT : Xindao B.V.

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

**PRODUCT DESCRIPTION** : True wireless sport earbuds

ITEM NUMBER : P326.28

COUNTRY OF ORIGIN : China

**COUNTRY OF IMPORT** : Europe

**SAMPLE RECEIVED DATE** : 24-Aug-2017

TURN AROUND TIME : 24-Aug-2017 to 05-Sep-2017

TEST SPECIFICATION : EC Directive 2011/65/EU —The Restriction of the Use of

Certain Hazardous Substances in Electrical and

Electronic Equipment — (RoHS)

**CONCLUSION** : Based on the analysis on the submitted sample(s), the

test results do comply with the RoHS directive

2011/65/EU.

Signed for and on behalf of Eurofins Product Testing Service (Shanghai) Co., Ltd

Joyce Liu Lab Manager



Report No. : EFSH17081805-CG-01 Date : 05-Sep-2017 Page : 2 of 8

## **SAMPLE PHOTO**



EFSH17081805-CG-01



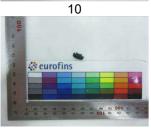
Date : 05-Sep-2017 Page : 3 of 8

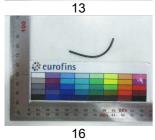
## **COMPONENT PHOTO(S)**





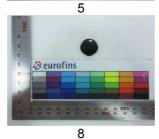


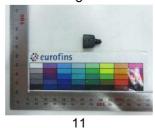




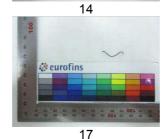


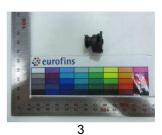


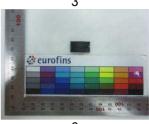


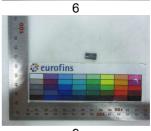


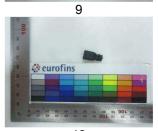




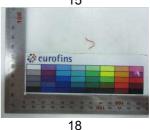










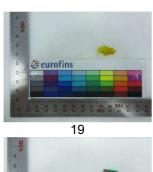


EFSH17081805-CG-01



Date : 05-Sep-2017 Page : 4 of 8

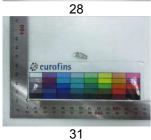
## **COMPONENT PHOTO(S)**



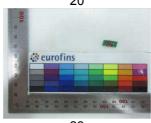


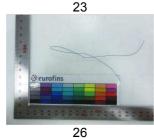




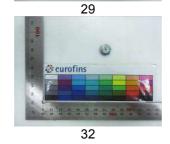


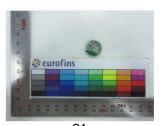




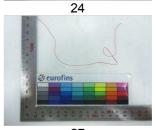
















EFSH17081805-CG-01



Report No. : EFSH17081805-CG-01 Date : 05-Sep-2017 Page : 5 of 8

## **COMPONENT PHOTO(S)**











38



36

# EFSH17081805-CG-01



Report No. : EFSH17081805-CG-01 Date : 05-Sep-2017 Page : 6 of 8

## **TEST RESULT**

#### Screening Test by XRF Spectroscopy A.

As specified by client, to analyze the contents of Lead, Cadmium, Mercury, Chromium, Bromine in the submitted sample by XRF. Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013 Ed.1

		Test Results (mg/kg)					
	Component	Cd	Pb	Hg	Cr	Br	
No.		Limit (mg/kg)					
110.		100	1000	1000	Cr(VI):1000	PBB:1000	
		100	1000	1000	01(11):1000	PBDE:1000	
1	Black plastic block 1	ND	ND	ND	ND	ND	
2	Black plastic block 2	ND	ND	ND	185	ND	
3	Black plastic block 3	ND	ND	ND	ND	ND	
4	Black plastic block 4	ND	ND	ND	ND	ND	
5	Black plastic block 5	ND	ND	ND	ND	ND	
6	Black plastic block 6	ND	ND	ND	ND	NC	
7	Black plastic block 7	ND	ND	ND	ND	ND	
8	Black plastic block 8	ND	ND	ND	ND	ND	
9	Black plastic block 9	ND	ND	ND	250	ND	
10	Black electronic component	11	ND	ND	ND	ND	
11	Black rubber block 1	ND	ND	ND	ND	ND	
12	Black rubber block 2	ND	ND	ND	ND	ND	
13	Black rubber block 3	ND	ND	ND	ND	ND	
14	Grey rubber block	ND	ND	ND	ND	ND	
15	Black rubber sheath	ND	ND	ND	ND	ND	
16	Black rubber wire sheath 1	ND	ND	ND	ND	ND	
17	Black rubber wire sheath 2	ND	ND	ND	287	ND	
18	Red rubber wire sheath	ND	ND	ND	192	ND	
19	Transparent yellow plastic tape	ND	ND	ND	347	ND	
20	Circuit board 1	ND	ND	ND	ND	NC	
21	Circuit board 2	32	ND	ND	ND	NC	
22	Circuit board 3	ND	ND	ND	ND	NC	
23	Silver metal soldering tin	ND	ND	ND	NC	NA	
24	Silver metal wire	13	ND	ND	NC	NA	
25	Copper metal wire 1	ND	ND	ND	NC	NA	
26	Blue metal wire	ND	ND	ND	NC	NA	
27	Red metal wire	ND	ND	ND	NC	NA	
28	Silver metal block 1	ND	ND	ND	NC	NA	
29	Silver metal block 2	ND	ND	ND	NC	NA	
30	Silver metal block 3	ND	ND	ND	NC	NA	
31	Silver metal block 4	17	ND	ND	NC	NA	
32	Silver metal block 5	ND	ND	ND	NC	NA	
33	Silver metal block 6	ND	ND	ND	NC	NA	
34	Silver metal sheet	ND	ND	ND	NC	NA	
35	Golden metal ring	ND	ND	ND	NC	NA	
36	Copper metal wire 2	ND	ND	ND	NC	NA	
37	Silver magnet	ND	ND	ND	NC	NA	
38	Silver metal screw	ND	ND	ND	NC	NA	



Date : 05-Sep-2017

Page: 7 of 8

### **TEST RESULT**

Abbreviation: Pb denotes Lead

Cd denotes Cadmium

Hg denotes Mercury

Cr denotes Chromium

Cr(VI) denotes Chromium(VI)

Br denotes Bromine

PBBs denotes Total Polybrominated Biphenyls
PBDEs denotes Total Polybrominated Diphenyl Ethers

NA denotes Not Applicable

ND denotes Not Detected (Cd<10mg/kg, Pb/ Hg/ Cr<100mg/kg, Br<300mg/kg)

NC denotes Not Conclusive

### XRF Screening limits for different materials:

Element	Polymers	Metals	Composite Material	
Cd	BL ≤(70-3σ) <x <<br="">(130+3σ) ≤ OL</x>	BL $\leq$ (70-3 $\sigma$ ) $<$ X $<$ (130+3 $\sigma$ ) $\leq$ OL	LOD <x< (150+3σ)="" td="" ≤ol<=""></x<>	
Pb	BL ≤ (700-3σ) <x <<br="">(1300+3σ) ≤OL</x>	BL ≤ (700-3σ) < X < (1300+3σ) ≤ OL	BL $\leq$ (500-3 $\sigma$ ) $<$ X $<$ (1500+3 $\sigma$ ) $\leq$ OL	
Hg	BL $\leq$ (700-3 $\sigma$ ) $<$ X $<$ (1300+3 $\sigma$ ) $\leq$ OL	BL $\leq$ (700-3 $\sigma$ ) $<$ X $<$ (1300+3 $\sigma$ ) $\leq$ OL	BL ≤ (500-3σ) <x <<br="">(1500+3σ) ≤OL</x>	
Br	BL ≤(300-3σ) < X	1	BL ≤ (250-3 $\sigma$ ) < X	
Cr	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<>	

#### Note:

BL= Below limit

X = The region where further investigation is necessary

OL = Over limit

 $3\sigma$  = The repeatability of the analyzer at the action level

LOD = Limit of detection

XRF testing results are only used for reference.

### B. Confirmation Test by Wet Chemistry

Tested Item(s)	Test Method	Measured Equipment	MDL
Lead (Pb) /Cadmium (Cd)	IEC 62321-5:2013 Ed.1	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed.1	ICP-OES	2 mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015 Ed.1	UV-Vis	0.01µg/cm <sup>2</sup>
Hexavalent Chromium (Cr(VI))	IEC62321-7-2:2017	07-718	2 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6: 2015 Ed.1	GC-MS	50 mg/kg
Polybrominated DiphenylEthers (PBDEs)	1EC 02321-0. 2015 Ed. 1	GC-IVIS	



Date : 05-Sep-2017

Page : 8 of 8

### **TEST RESULT**

Component No.	Boiling-water-extraction for Cr(VI) (*1)			
23	Negative			
24	Negative			
25	Negative			
26	Negative			
27	Negative			
28	Negative			
29	Negative			
30	Negative			
31	Negative			
32	Negative			
33	Negative			
34	Negative			
35	Negative			
36	Negative			
37	Negative			
38	Negative			

#### Remark:

(\*1) The screening result of Chromium(VI) was found in the inconclusive region, Thus the Chromium(VI) content in surface layer have been confirmed with reference to IEC 62321-7-1:2015.

Negative - The Cr(VI) concentration is below 0.10µg/cm<sup>2</sup>. The coating is considered a non-Cr(VI) based coating.

	Test Results (mg/kg)					
Component No.	Cd	Pb	Hg	Cr (VI)	PBBs	PBDEs
Component No.	Limit (mg/kg)					
	100	1000	1000	1000	1000	1000
6	-	-	-	-	ND	ND
20	-	-	-	-	ND	ND
21	-	-	-	-	ND	ND
22	-	-	-	-	ND	ND

### Note:

The sample had been dissolved totally tested for Lead, Cadmium, Mercury. MDL = method detection limit ND = not detected (<MDL) mg/kg = milligram per kilogram  $\mu$ g/cm<sup>2</sup>= micrograms per square centimeter

\*\*\* END OF THE REPORT \*\*\*