### AGC<sup>®</sup>鑫 宇 环 检 测 Attestation of Global Compliance

## **Test Report**

Report No.: A001R20170918018

Date: Sep.29, 2017

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Applicant: Address:

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

	Bluetooth headset with case. Cable length from ear to ear 51 cm. Case 10cm height x
Sample Name:	3cm x 3cm. Lid and volume panel/ears in the same color, transparent tube and black
	cable
Model:	CTT 16928
Item No.:	7816
Country of origin:	CHINA
Country of destination:	EUROPE
Sample Received Date:	Sep.18, 2017
Testing Period:	Sep.18, 2017 to Sep.29, 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).

no Xian Tested by:

Luoxiao

Test Engineer

Reviewed by: \_\_\_\_\_

Suhongliang, Leon

Test Team Leader

Approved by:

Technical Director



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# Actestation of Global Compliance

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Conclusion

Pass

#### **Test Requested:**

As specified by client, to determine the Polycyclic Aromatic Hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006.
As specified by client, to determine Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium (Cr<sup>6+</sup>) content accordance with European Parliament and Council Directive 94/62/EC and Amendment Regulation 2013/2/EU on packaging and packaging waste.
As specified by client, to determine Lead(Pb), Cadmium(Cd), Mercury(Hg) content accordance with European Directive 2006/66/EC and its amendments 2013/56/EU.
As specified by client, to determine the Pb, Cd, Hg, Cr<sup>6+</sup>, 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.

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Test Result(s):

1. Test result of Polycyclic Aromatic Hydrocarbons (PAHs)

	Test Method	MD	Result(s)			all of One
Test Item(s)	/Equipment	MDL -	1-2	1-3	1-4	– Limit
Benzo[a]anthracene (BaA)	C CC	0.1	N.D.	N.D.	N.D.	1
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)	Pafarta	0.1	N.D.	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)	Refer to German consumer	0.1	N.D.	N.D.	N.D.	1
Benzo[j]fluoranthene (BjFA)	product safety	0.1	N.D.	N.D.	N.D.	1
Benzo[a]pyrene (BaP)	regulations	0.1	N.D.	N.D.	N.D.	a part 1
Benzo[e]pyrene(BeP)	(ProdSG: 2014)	0.1	N.D.	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)	GC-MS	0.1	N.D.	N.D.	N.D.	1
Sum of 8 PAHs	c.C	1	N.D.	N.D.	N.D.	/
Conclusion	clusion		Pass	Pass	Pass	1

Unit: mg/kg

Test Item (c)	Test Method	MDL	NO	Limit		
Test Item(s)	/Equipment	MDL	1-5	1-6	1-7	
Benzo[a]anthracene (BaA)		0.1	N.D.	N.D.	N.D.	1
Chrysene (CHR)	The Contract of Contract	0.1	N.D.	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)	Refer to	0.1	N.D.	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)	German consumer	0.1	N.D.	N.D.	N.D.	TA IN
Benzo[j]fluoranthene (BjFA)	product safety	0.1	N.D.	N.D.	N.D.	on of Globa
Benzo[a]pyrene (BaP)	regulations	0.1	N.D.	N.D.	N.D.	- 1
Benzo[e]pyrene(BeP)	(ProdSG: 2014)	0.1	N.D.	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)	GC-MS	0.1	N.D.	N.D.	N.D.	1
Sum of 8 PAHs		—	N.D.	N.D.	N.D.	
Conclusion	and The Comparts		Pass	Pass	Pass	

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and the standard of the second	C.G				Unit	: mg/kg
Test Item(s)	Test Method	MDI		Result(s)	2	E The Company
Test Item(s)	/Equipment	MDL	1-8	1-9	1-10	- Limit
Benzo[a]anthracene (BaA)	C Answirth C	0.1	N.D.	N.D.	N.D.	1
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)	Dafar ta	0.1	N.D.	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)	- Refer to German consumer	0.1	N.D.	N.D.	N.D.	<b>C</b> 1
Benzo[j]fluoranthene (BjFA)	product safety	0.1	N.D.	N.D.	N.D.	1
Benzo[a]pyrene (BaP)	regulations	0.1	N.D.	N.D.	N.D.	1
Benzo[e]pyrene(BeP)	(ProdSG: 2014)	0.1	N.D.	N.D.	N.D.	second 1
Dibenzo[a,h]anthracene (DBAhA)	GC-MS	0.1	N.D.	N.D.	N.D.	1
Sum of 8 PAHs	F. of Caluar Company 8 5 - For al	_	N.D.	N.D.	N.D.	
Conclusion	CO T		Pass	Pass	Pass	/

Unit: mg/kg

The second second	Test Method	MDI		T :				
Test Item(s)	/Equipment	MDL	1-11	1-12	1-13	– Limit		
Benzo[a]anthracene (BaA)	The second	0.1	N.D.	N.D.	N.D.			
Chrysene (CHR)	C Busines	0.1	N.D.	N.D.	N.D.	1		
Benzo[b]fluoranthene (BbFA)	Refer to	0.1	N.D.	N.D.	N.D.	110		
Benzo[k]fluoranthene (BkFA)	German consumer	0.1	N.D.	N.D.	N.D.	and Stall		
Benzo[j]fluoranthene (BjFA)	product safety	0.1	N.D.	N.D.	N.D.	1		
Benzo[a]pyrene (BaP)	regulations	0.1	N.D.	N.D.	N.D.	1		
Benzo[e]pyrene(BeP)	(ProdSG: 2014)	0.1	N.D.	N.D.	N.D.	1		
Dibenzo[a,h]anthracene (DBAhA)	GC-MS	GC-MS	[a,h]anthracene (DBAhA) GC-MS 0.1	0.1	N.D.	N.D.	N.D.	° 1
Sum of 8 PAHs	The state of the state	— © 4	N.D.	N.D.	N.D.			
Conclusion	C The second Grow		Pass	Pass	Pass	/		

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and the standard of the second	C S				Unit	: mg/kg
Test Item(s)	Test Method	MDL	Result(s)			E The Company
Test Item(s)	/Equipment	MDL	1-14	1-15	1-16	- Limit
Benzo[a]anthracene (BaA)	B Alexandra 6	0.1	N.D.	N.D.	N.D.	1
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)	Pafar ta	0.1	N.D.	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)	- Refer to German consumer	0.1	N.D.	N.D.	N.D.	1
Benzo[j]fluoranthene (BjFA)	product safety	0.1	N.D.	N.D.	N.D.	1
Benzo[a]pyrene (BaP)	regulations	0.1	N.D.	N.D.	N.D.	1
Benzo[e]pyrene(BeP)	(ProdSG: 2014)	0.1	N.D.	N.D.	N.D.	september 1
Dibenzo[a,h]anthracene (DBAhA)	GC-MS	0.1	N.D.	N.D.	N.D.	1
Sum of 8 PAHs		-	N.D.	N.D.	N.D.	
Conclusion	CC The		Pass	Pass	Pass	/

	H Good Co	Francisco		C M	Unit	: mg/kg
Tost Homes)	Test Method	MDL	Result(s)			T : :4
Test Item(s)	/Equipment	MDL	1-17	1-18	1-19	Limit
Benzo[a]anthracene (BaA)		0.1	N.D.	N.D.	N.D.	b 🍯
Chrysene (CHR)	Landre O & Frank	0.1	N.D.	N.D.	N.D.	G <sup>*</sup>
Benzo[b]fluoranthene (BbFA)	Refer to	0.1	N.D.	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)	German consumer	0.1	N.D.	N.D.	N.D.	The land
Benzo[j]fluoranthene (BjFA)	product safety	0.1	N.D.	N.D.	N.D.	on of Close
Benzo[a]pyrene (BaP)	regulations	0.1	N.D.	N.D.	N.D.	1
Benzo[e]pyrene(BeP)	(ProdSG: 2014)	0.1	N.D.	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)	GC-MS	0.1	N.D.	N.D.	N.D.	1
Sum of 8 PAHs		—	N.D.	N.D.	N.D.	
Conclusion	March The The Compares	101	Pass	Pass	Pass	

Note: 1. MDL=Method Detection Limit

- 2. N.D.=Not Detected(less than method detection limit)
- 3. As specified by client, only test the designated sample.

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#### 2. Lead(Pb), Cadmium(Cd), Mercury(Hg) , Hexavalent Chromium (Cr<sup>6+</sup>) content (94/62/EC)

						Jnit: mg/kg
Test Method/	MDI	147	Result(s)			– Limit
Equipment	MDL	1-14	1-15	1-16	1-17	
Refer to	5	N.D.	N.D.	N.D.	N.D.	4
IEC 62321-5:2013 ICP-OES	5	N.D.	N.D.	N.D.	N.D.	0 - En
Refer to IEC 62321-4:2013 ICP-OES	5	N.D.	N.D.	N.D.	N.D.	30_
Refer to IEC 62321-7-2:2017 UV-Vis	1	N.D.	N.D.	N.D.	N.D.	HE THE
	Barriel 0	N.D.	N.D.	N.D.	N.D.	100
C Same		Pass	Pass	Pass	Pass	1
	Equipment Refer to IEC 62321-5:2013 ICP-OES Refer to IEC 62321-4:2013 ICP-OES Refer to IEC 62321-7-2:2017	EquipmentMDLRefer to IEC 62321-5:2013 ICP-OES5Refer to IEC 62321-4:2013 ICP-OES5Refer to IEC 62321-7-2:20171	Equipment     MDL       Refer to IEC 62321-5:2013 ICP-OES     5     N.D.       Refer to IEC 62321-4:2013 ICP-OES     5     N.D.       Refer to IEC 62321-7-2:2017 UV-Vis     5     N.D.       /     /     N.D.	Hest Method/ Equipment     MDL     1-14     1-15       Refer to IEC 62321-5:2013 ICP-OES     5     N.D.     N.D.       Refer to IEC 62321-4:2013 ICP-OES     5     N.D.     N.D.       Refer to IEC 62321-7-2:2017 UV-Vis     5     N.D.     N.D.       /     /     /     N.D.     N.D.	Hest Method/ Equipment     MDL     1-14     1-15     1-16       Refer to IEC 62321-5:2013 ICP-OES     5     N.D.     N.D.     N.D.       Refer to IEC 62321-4:2013 ICP-OES     5     N.D.     N.D.     N.D.       Refer to IEC 62321-7-2:2017 UV-Vis     5     N.D.     N.D.     N.D.       /     /     /     N.D.     N.D.     N.D.	Test Method/ Equipment     MDL     Result(s)       Refer to IEC 62321-5:2013 ICP-OES     5     N.D.     N.D.     N.D.     N.D.       Refer to IEC 62321-4:2013 ICP-OES     5     N.D.     N.D.     N.D.     N.D.       Refer to IEC 62321-4:2013 ICP-OES     5     N.D.     N.D.     N.D.     N.D.       Refer to IEC 62321-7-2:2017 UV-Vis     5     N.D.     N.D.     N.D.     N.D.       /     /     /     N.D.     N.D.     N.D.     N.D.

	The second se	The Compliance	F Global Comp	C. Best	- CI	Unit: mg/kg
Track items (a)	Test Method/	MDL	Stranger C			
Test item(s)	Equipment	MDL	1-18	1-19	1-20	Limit
Lead (Pb)	Refer to IEC 62321-5:2013	5	N.D.	N.D.	42	-C
Cadmium (Cd)	ICP-OES	5	N.D.	N.D.	N.D.	0-
Mercury (Hg)	Refer to IEC 62321-4:2013 ICP-OES	5	N.D.	N.D.	N.D.	The store a con
Hexavalent Chromium (Cr <sup>6+</sup> )	Refer to IEC 62321-7-2:2017 UV-Vis		N.D.	N.D.	P.G.C	
Hexavalent Chromium (Cr <sup>6+</sup> )	Refer to IEC 62321-7-1:2015 UV-Vis	See note		A BAR	Negative	<b>, (</b>
$\begin{array}{l} \text{Sum of (Pb + Cd + } \\ \text{Cr}^{6+} + \text{Hg}) \end{array}$	· · ··································	Suma Success	N.D.	N.D.	42-52	100
Conclusion	NGO XGO	/	Pass	Pass	Pass	18 1

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#### Note:

- N.D.=Not Detected(less than method detection limit)
- MDL = Method Detection Limit
- Negative = Absence of Cr(VI) on the tested areas
- Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
N <sup>C</sup>	The sample solution is < the 0,10 $\mu$ g/cm <sup>2</sup> equivalent comparison standard solution	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	The sample solution is $\geq$ the 0,10 µg/cm <sup>2</sup> and $\leq$ the0,13 µg/cm <sup>2</sup> equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
C A State	The sample solution is > the 0,13 $\mu$ g/cm <sup>2</sup> 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.

As specified by client, only test the designated sample.

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### No.1

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#### 3. Test result of Lead(Pb), Cadmium(Cd), Mercury(Hg)

and the second second	2.0			Unit: %,w/w
Test item(a)	Test Method/	MDL	Result(s)	Limit
Test item(s)	Equipment	MIDL	and Global 1-1	
Lead (Pb)	Refer to IEC 62321-5:2013	0.0005	N.D.	
Cadmium (Cd)	ICP-OES	0.0005	N.D.	0.002
Mercury (Hg)	Refer to IEC 62321-4:2013, ICP-OES	0.0001	N.D.	0.0005
Conclusion	玉蓉! 玉楼	l'all	Pass	Service 1

#### Note:

- 0.1%,w/w=1000 mg/kg
- N.D.=Not Detected(less than method detection limit)
- MDL = Method Detection Limit
- "-"=Not regulated
- As specified by client, only test the designated sample.

#### Sample description:

1-1	Electric core	1-11	White plastic shell
1-2	Red plastic shell	1-12	White silicone plug
1-3	Red silicone plug	1-13	Black grip
1-4	Blue wire leather	1-14	Black outside leather
1-5	Blue plastic shell	1-15	White rubber cover(box)
1-6	Blue silicone plug	1-16	Blue rubber cover(box)
1-7	Black wire leather	1-17	Red rubber cover(box)
1-8	Black plastic shell	1-18	Black rubber cover(box)
1-9	Black silicone plug	1-19	Transparent plastic shell(box)
1-10	White wire leather	1-20	Metal buckle(box)

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#### 4.Test Methods:

- A: Screening by X-ray Fluorescence Spectrometry (XRF) : 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 <sup>6+</sup> )	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr <sup>6+</sup> )	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.	Tested Bert()	-111	Re	Results(mg/kg)			
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br	
1	Red plastic ear shell(ear shell)	BL	BL	BL	BL	BL	
2	Silver plating ring(ear shell)	BL	BL	BL	BL	BL	
3	Metal buckle(ear shell)	BL	BL	BL	BL	<u>***</u>	
4	Red silicone plug(ear shell)	BL	BL	BL	BL	BL	
5	Yellow glue(horn)	BL	X*	BL	BL	BL	
6	PCB board(horn)	BL	BL	BL	BL	BL	
7	Tin solder(horn)	BL	BL	BL	BL	20	
8	Metal shell(horn)	BL	BL	BL	BL	-	
9	Black foam ring(horn)	BL	BL	BL	BL	BL	
10	Metal cover(horn)	BL	BL	BL	BL	-	
11	Diaphragm(horn)	BL	BL	BL	BL	BL	
12	Enameled wire(horn)	BL	BL	BL	BL	Nance	
13	magnet(horn)	BL	BL	BL	BL	BL	
14	Red plastic shell(Sound controller)	BL	BL	BL	BL	BL	
15	Red buckle(Sound controller)	BL	BL	BL	BL	BL	
16	IC Ontology(IC) (Sound controller)	BL	BL	BL	BL	BL	
17	Pin(IC) (Sound controller)	BL	BL	BL	BL		
18	Tin solder(Sound controller)	BL	BL	BL	BL	-	
19	PCB board(Sound controller)	BL	BL	BL	BL	X*	
20	SMD capacitor(Sound controller)	BL	BL	BL	BL	BL	
21	Patch LED(Sound controller)	BL	BL	BL	BL	BL	
22	SMD crystal(Sound controller)	BL	BL	BL	BL	BL	
23	Black plastic seat(Tact Switch) (Sound controller)	BL	BL	BL	BL	BL	
24	Metal shrapnel(Tact Switch) (Sound controller)	BL	BL	BL	X*	-	

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Seq.	Tootod Dout(o)	S	Results(mg/kg)					
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br		
25	Black dust-proof net(Microphone) (Sound controller)	BL	BL	BL	BL	BL		
26	Copper Shell(Microphone) (Sound controller)	BL	BL	BL	BL	1		
27	metal Sheet(Microphone) (Sound controller)	BL	BL	BL	BL	-		
28	Diaphragm(Microphone) (Sound controller)	BL	BL	BL	BL	BL		
29	PCB board(Microphone) (Sound controller)	BL	BL	BL	BL	X*		
30	White plastic ring(Microphone) (Sound controller)	BL	BL	BL	BL	BL		
31	Metal shell(Micro joint) (Sound controller)	BL	BL	BL	BL	mpliance -		
32	Black plastic joint(Micro joint) (Sound controller)	BL	BL	BL	BL	BL		
33	Pin(Micro joint) (Sound controller)	BL	BL	BL	BL			
34	Brown tape(Battery)	BL	BL	BL	BL	BL		
36	Red skin(Battery)	BL	BL	BL	BL	BL		
37	Wire core(Battery)	BL	BL	BL	BL	-		
38	Black line leather(Battery)	BL	BL	BL	BL	BL		
39	Patch IC(Battery)	BL	BL	BL	BL	X*		
40	Tin solder(Battery)	BL	BL	BL	BL	3.		
41	PCB board(Battery)	BL	BL	BL	BL	BL		
42	Red wire leather(Wire rod)	BL	BL	BL	BL	BL		
43	Red enameled wire(Wire rod)	BL	BL	BL	BL			
44	Brown enameled wire(Wire rod)	BL	BL	BL	BL	-		
Diffe	rences (earphones)	. 5	K Barranance	T	the Completion			
45	Blue wire leather(Blue earphone)	BL	BL	BL	BL	BL		
46	Blue buckle(Blue earphone)	BL	BL	BL	BL	BL		
47	Blue plastic shell(Blue earphone)	BL	BL	BL	BL	BL		
48	Blue plastic ear shell(Blue earphone)	BL	BL	BL	BL	BL		
49	Blue silicone plug(Blue earphone)	BL	BL	BL	BL	BL		
50	Black wire leather(Black earphone)	BL	BL	BL	BL	BL		

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Seq.	Track Dr. (1)		Results(mg/kg)					
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br		
51	Black Buckle(Black earphone)	BL	BL	BL	BL	BL		
52	Black plastic shell(Black earphone)	BL	BL	BL	BL	BL		
53	Black plastic ear shell(Black earphone)	BL	BL	BL	BL	BL		
54	Black silicone plug(Black earphone)	BL	BL	BL	BL	BL		
55	White line leather(White earphone)	BL	BL	BL	BL	BL		
56	White buckle(White earphone)	BL	BL	BL	BL	BL		
57	White plastic shell(White earphone)	BL	BL	BL	BL	BL		
58	White plastic ear shell(White earphone)	BL	BL	BL	BL	BL		
59	White silicone plug(White earphone)	BL	BL	BL	BL	BL		
USB	line			不能	manance	THE TANK		
60	Black grip(USB plug)	BL	BL	BL	BL	BL		
61	Tin solder(USB plug)	BL	BL	BL	BL	-		
62	White plastic plug(USB plug)	BL	BL	BL	BL	BL		
63	Pin(USB plug)	BL	BL	BL	BL	8		
64	Metal shell(USB plug)	BL	BL	BL	BL	69		
65	Tin solder(Micro plug)	BL	BL	BL	BL	A. B		
66	Black plastic plug(Micro plug)	BL	BL	BL	BL	BL		
67	Metal Thimble(Micro plug)	BL	BL	BL	BL			
68	Pin(Micro plug)	BL	BL	BL	X*	-		
69	Metal shell(Micro plug)	BL	BL	BL	X*	<u>6</u>		
70	Black outside wire leather(Wire rod)	BL	BL	BL	BL	BL		
71	Red wire leather(Wire rod)	BL	BL	BL	BL	BL		
72	Wire core(Wire rod)	BL	BL	BL	BL	Compliant -		
73	Black wire leather(Wire rod)	BL	BL	BL	BL	BL		

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Lange Contraction	Ar Complia			
Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤50-3σ <x &lt;150+3σ≤OL</x 
Pb	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Hg	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;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></td><td>BL≤250-3σ<x< td=""></x<></td></x<>		BL≤250-3σ <x< td=""></x<>

Note: BL= Below Limit

- OL= Over limited
- X= Inconclusive
- "-"= Not regulated
- \*= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

Test result on specimen No.7 was resubmitted sample on Sep.27,2017.

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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:

<b>RoHS Restricted Substances</b>	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)				
Cadmium (Cd)	GO	100			
Lead (Pb)		1000	下地理		
Mercury (Hg)	the man	1000	The stored Const Ca		
Hexavalent Chromium (Cr(VI))	Fra Geoba Come	1000	No. No.		
Polybrominated biphenyls (PBBs)		1000			
Polybrominated diphenylethers (PBDEs)		1000	Andrew The		

#### 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 Pb

Test Item(s)	Unit	Result(s)
Test Item(s)	Umt	5 6
Lead(Pb)	mg/kg	36

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

MDL = Method Detection Limit

2)The Test Results of metal Cr<sup>6+</sup>

	MDI		Result(s)		<b>T</b> ••4
Test Item(s)	MDL	24	68	69	Limit
Hexavalent Chromium (Cr <sup>6+</sup> )	See note	Negative	Negative	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
	The sample solution is <the 0,10="" <math="">\mug/cm<sup>2</sup> 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	The sample solution is $\geq$ the 0,10 µg/cm <sup>2</sup> and $\leq$ the0,13 µg/cm <sup>2</sup> equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
30	The sample solution is > the 0,13 $\mu$ g/cm <sup>2</sup> 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:n
Item(s)	MDL		Result(s)		Limit
Delektroning (ad Direktroning (DDDs)	The Cont	19	29	39	a the state
Polybrominated Biphenyls (PBBs)	6	ND	ND	ND	
Monobromobiphenyl	5	N.D.	N.D.	N.D.	
Dibromobiphenyl	5	N.D.	N.D.	N.D.	KB MA
Tribromobiphenyl	5	N.D.	N.D.	N.D.	- C
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	Total PBBs
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	Content
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	<1000
Octabromobiphenyl	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	
Total content	18	N.D.	N.D.	N.D.	
Polybrominated Diphenylethers (PBDEs)					
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	his-
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	The Bangana
Tribromodiphenyl ether	5	N.D.	N.D.	N.D. 💿	Final Cloba
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	0
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	Total PBDEs
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	Content
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	<1000
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Total content	/ ,>	N.D.	N.D.	N.D.	Contraction of Contraction
Conclusion	The second	Pass	Pass	Pass	

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

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No.

1



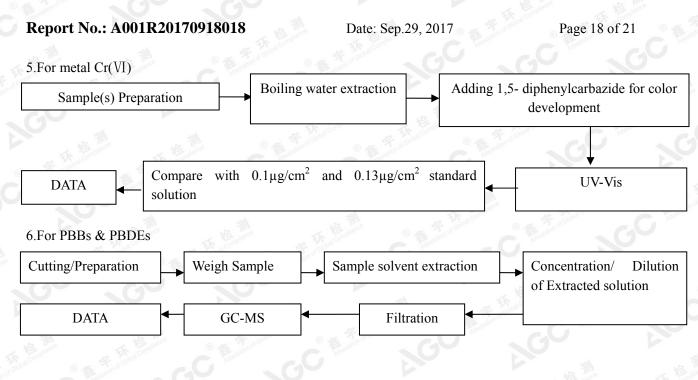
Report No.: A001R20170918018 Page 17 of 21 Date: Sep.29, 2017 **Test Flow Chart** 1.For PAHs **Cutting/Preparation** Weigh Sample Sample solvent extraction Concentration/ Dilution of Extracted solution DATA GC-MS Filtration 2.For Pb & Cd & Hg Acid digestion with Weigh Sample Sample Preparation microwave/hotplate DATA **ICP-OES** Filtration 3. For non-metal Cr(VI) Weigh Sample Sample pretreatment pH adjustment to 7.5±0.5 Adding 1,5-diphenylcarbazide DATA UV-Vis for color development 4.For Lead(Pb), Cadmium(Cd), Mercury(Hg)(2006/66/EC) Sample preparation Add digestion reagent, cover Place it in suitable container and weight sample container and digest sample Filter, transfer filtrate to Data process Analyze solution by ICP-OES volumetric flask

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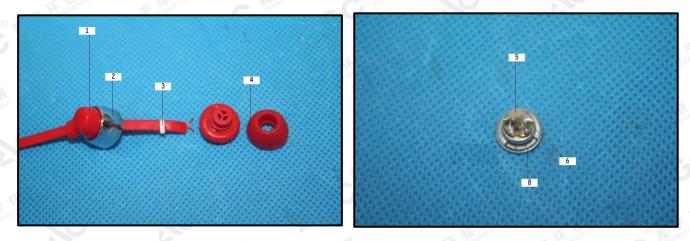
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#### The photo of the sample



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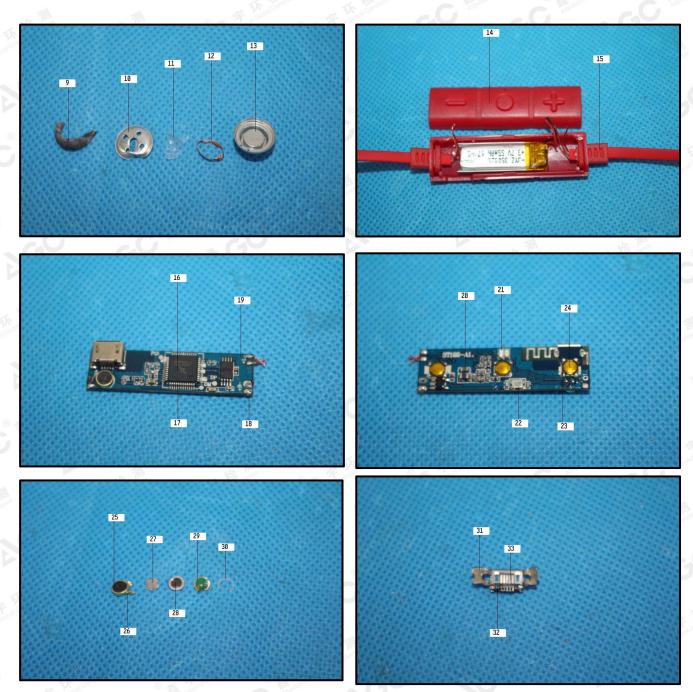




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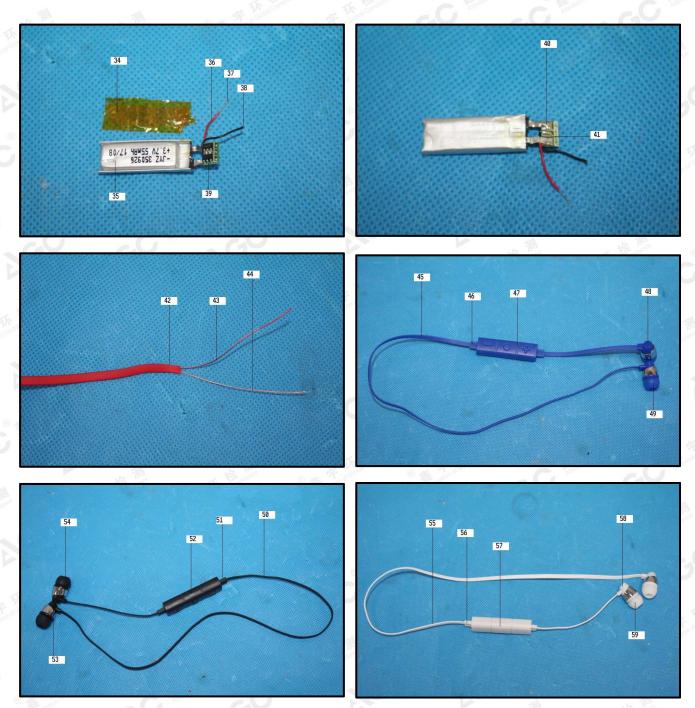
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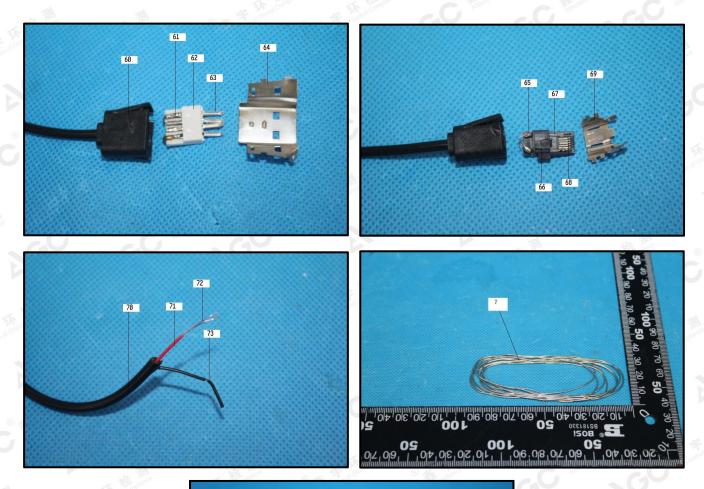
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