

**Test Result:** 

# **Test Report**

### Report No.: AGC-08009-19-08-02-001

Date: Sep.03, 2019

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Mid Ocean Brands B.V. Applicant: 7/F.,King Tower,111King Lam Street,Cheung Sha Wan,Kowloon,HongKong. Address: 1,6/F.,Building 2,No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Test site: Baoan District, Shenzhen, Guangdong, China

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

Sample Name:	Bluetooth speaker
Sample Model:	MO9062, MO8906
Manufacturers:	103221
Sample Received Date:	Aug.28, 2019
Testing Period:	Aug.28, 2019 to Sep.03, 2019
Test Requested:	Please refer to following page(s).
Test Method:	Please refer to following page(s).

Please refer to following page(s).





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Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

NO.

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Test Requested:		Conclusion
1. As specified by client, to determine the Pb, Cd, Hg, submitted sample in accordance with EU RoHS Dir	$Cr^{6+}$ , PBBs, PBDEs content in the ective 2011/65/EU(RoHS) and its	Pass
amendment directives on XRF and Chemical Method.	cenve 2011/05/EO(Rolls) and its	1 455
2.As specified by client, to determine the DBP, BBP, DEI	HP, DIBP content in the submitted	© Pass
(EU) 2015/863.		
3.As specified by client, to determine the Pb, Cd, Hg	, Cr <sup>6+</sup> , PBBs, PBDEs, DBP, BBP,	
(RoHS) and its amendment directive (EU) 2015/863.	rdance with Directive 2011/65/EU	e Pass

#### **Test Methods:**

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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: <u>Chemical test:</u>

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017 Ed 1.1	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	R Contraction of the second se
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.	Tostad Part(s)					
No.	lested Part(s)	Cd	Pb	Hg	Cr	Br
1 ®	White plastic shell(outer shell)	BL	BL	BL	BL	BL
2	Milk white plastic shell(outer shell)	BL	BL	BL	BL	BL
3	Transparent plastic shell(outer shell)	BL	BL	BL	BL	BL
4	Silver screw(outer shell)	BL	BL	BL	BL	-
5	White coating(outer shell)	BL	BL	BL	BL	BL
6	Metal sound-absorbing cover(outer shell)	BL	BL	BL	BL	-
7	T iron(horn)	BL	BL	BL	BL	-
8	Black magnet(horn)	BL	BL	BL	BL	BL
9	Tin solder(horn)	BL	OL*	BL	BL	5
10	White connecting piece(horn)	BL	BL	BL	BL	BL
11	Black rubber vibrating film(horn)	BL	BL	BL	BL	BL
12	Black globe-roof(horn)	BL	BL	BL	BL	BL
13	Damper(horn)	BL	BL	BL	BL	BL
14	Silver magnet(horn)	BL	BL	BL	BL	<u> </u>
15	Metal frame(horn)	BL	BL	BL	BL	-
16	Enameled coil(horn)	BL	BL	BL	BL	-
17	Blue wire jacket(horn)	BL	BL	BL	BL	BL
18	Wire core(horn)	BL	BL	BL	BL	8
19	Blue wire jacket(horn)	BL	BL	BL	BL	BL
20	Brown tape(battery)	BL	BL	BL	BL	BL
21	Black double-sided adhesive(battery)	BL	BL	BL	BL	BL
22	Electric core(battery)	BL	BL	BL	BL	BL
23	Tin solder(battery)	BL	BL	BL	BL 💿	-
24	PCB board(battery)	BL	BL	BL	BL	X*

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Seq.	Tested Bert(c)	Results(mg/kg)					
No.	lested Part(s)	Cd	Pb	Hg	Cr	Br	
25	Black wire jacket(battery)	BL	BL	BL	BL®	BL	
26	Wire core(battery)	BL	BL	BL	BL		
27	Red wire jacket(battery)	BL	BL	BL	BL	BL	
28	Chip IC(battery)	BL	BL	BL	BL	BL	
29	Tin solder(battery)	BL	BL	BL	BL	9-	
30	Microphone(circuit board)	BL	BL	BL	BL	BL	
31	Tin solder(circuit board)	BL	BL	BL	BL	5 -	
32	PCB board(circuit board)	BL	BL	BL	BL	X*	
33	Black audio seat(circuit board)	BL	BL	BL	BL	BL	
34	IC body(IC)(circuit board)	BL	BL	BL	BL	X*	
35	Tin solder(IC)(circuit board)	BL	BL	BL	BL	-	
36	Chip crystal(circuit board)	BL	BL	BL	BL	BL	
37	Glass diode(circuit board)	BL	OL*	BL	BL	BL	
38	Chip capacitor(circuit board)	BL	BL	BL	BL	BL	
39	Chip resistor(circuit board)	BL	BL	BL	BL	BL	
40	Black plastic button(touch switch)(circuit board)	BL	BL	BL	BL	BL	
41	White plastic seat(touch switch)(circuit board)	BL	BL	BL	BL	BL	
42	Metal shrapnel(touch switch)(circuit board)	BL	BL	BL	X*	-6	
43	Silver metal sheet(touch switch)(circuit board)	BL	BL	BL	BL	-	
44	Black toggle plastic(toggle switch)(circuit board)	BL	BL	BL	BL	X*	
45	Silver metal shell(toggle switch)(circuit board)	BL	BL	BL	BL	9-	
46	Epoxy resin board(toggle switch)(circuit board)	BL	BL	BL	BL	BL	
47	Metal buckle(toggle switch)(circuit board)	BL	BL	BL	BL	0	
48	Silver metal cover(memory card)(circuit board)	BL	BL	BL	X*	-	
49	Black plastic seat(memory card)(circuit board)	BL	BL	BL	BL	BL	
50	Contact pin(memory card)(circuit board)	BL	BL	BL	BL	6	

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Seq.	Tostad Part(c)	Results(mg/kg)						
No.	lestea Part(s)		<sup>©</sup> Pb	Hg	Cr	Br		
51	Metal spring(memory card)(circuit board)	BL	BL	BL	BL ®	_		
52	USB metal joint(USB joint)	BL	BL	BL	BL	-		
53	Black plastic joint(USB joint)	BL	BL	BL	BL	BL		
54	Contact pin(USB joint)	BL	BL	BL	BL			
55	Mini metal joint(Mini joint)	BL	BL	BL	BL	0		
56	Black plastic joint(Mini joint)	BL	BL	BL	BL	BL		
57	Contact pin(Mini joint)	BL	BL	BL	BL	<b>D</b> -		

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.

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#### Remark:

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- 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.
- ii The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	0 100
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.

#### B. The Test Results of Chemical Method:

1) The Test Results of Pb

T 4 I4 ()	Unit			Resu	ult(s)	
lest Item(s)	Umt	B	9		37	
Lead(Pb)	mg/kg		690	8	19575*	-Č

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

mg/kg = parts per million

- MDL = Method Detection Limit
- =As claimed by the material declaration submitted by the client, the materials of the sample No.37 is glass, according to the ROHS 2011/65 / EU, lead in glass of electronic components is exempted.

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

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	MDI	Resu	ılt(s)	<b>T</b> • • • •
lest item(s)	MDL	42	48 0	Limit
Hexavalent Chromium (Cr <sup>6+</sup> )	See note	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 is negative for Cr(VI) – The Cr(VI)			
© 1	The sample solution is <the 0,10="" cm<sup="" µg="">2</the>	concentration is below the limit of			
	equivalent comparison standard solution	quantification. The coating is considered a			
		non-Cr(VI) based coating.			
	The sample solution is $\geq$ the 0,10 µg/cm <sup>2</sup>	The result is considered to be inconclusive –			
2	and $\leq$ the0,13 µg/cm <sup>2</sup> equivalent	Unavoidable coating variations may influence			
-C	comparison standard solutions	the determination.			
S		The sample is positive for Cr(VI) – The Cr(VI)			
2	The sample solution is > the 0,13 $\mu$ g/cm <sup>2</sup>	concentration is above the limit of quantification			
3 ©	equivalent comparison standard solution	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

GC

		Result(s)				
Item(s)	MDL	24	32	34	44	Limit
Polybrominated Biphenyls (P	BBs)					
Monobromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	6
Tribromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	3 20
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	NO
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	8
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	Total PBBs Content <1000
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Total content		N.D.	N.D.	N.D.	N.D.	
Polybrominated Diphenylethe	ers (PBDEs)					
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	NO
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	- 5	N.D.	N.D.	N.D.	N.D.	- C
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	© 5	N.D.	N.D.	N.D.	N.D.	Total PBDEs
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	Content <1000
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	No ci
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	-C
Total content	F.C	N.D.	N.D.	N.D.	N.D.	
Conclusion		Pass	Pass	Pass	<sup>©</sup> Pass	

Note: N.D. = Not Detected or less than MDL mg/kg = parts per million

MDL = Method Detection Limit

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### 2. Test result of DBP, BBP, DEHP, DIBP content

		Č	Ē			Un	it: mg/kg			
Test Item(s)	Test Method/ Equipment	MDI	Result(s)							
		MDL ®	1	2	3	5				
Di-(2-ethylhexyl) Phthalate (DEHP)		50	N.D.	N.D. ®	N.D.	N.D.	1000			
Dibutyl phthalate (DBP)	Refer to	50	N.D.	N.D.	N.D.	N.D.	1000			
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017	50	N.D.	N.D.	N.D.	N.D.	1000			
Di-iso-butyl phthalate (DIBP)	GC-MS	GC-MS	GC-MS	GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	i c	6	Pass	Pass	Pass	Pass	51			

		C C	1	Č.	Un	it: mg/kg	
Test Item(s)	Test Method/ Equipment	MDI	Result(s)				
		MDL	8	10 💿	11	12	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	©	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)	Refer to	50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017	50	N.D.	N.D.	N.D. 💿	N.D.	1000
Di-iso-butyl phthalate (DIBP)	GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion			Pass	Pass	Pass	Pass	/

						Ur	it: mg/kg
Test Item(s)	Test Method/ Equipment MI	MDI	Result(s)				- G
		MIDL	13	17	19	20	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)		50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)	Refer to	50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017	50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)	GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		97	Pass	Pass	Pass	Pass	

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I Init.	ma/ka
Unit:	mg/kg

Test Item(s)	Test Method/	MDI	<sup>®</sup>	T :			
	Equipment	MDL	21	22	24	25	Lillin
Di-(2-ethylhexyl) Phthalate (DEHP)	Pefer to	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017	50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)	GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion			Pass	Pass	Pass	Pass	© /

Unit: mg/kg Result(s) **Test Method**/ MDL Test Item(s) Limit Equipment 27 28 30 32 N.D. N.D. 1000 Di-(2-ethylhexyl) Phthalate (DEHP) 50 N.D. N.D. 50 N.D. N.D. N.D. N.D. 1000 Dibutyl phthalate (DBP) Refer to Butylbenzyl phthalate (BBP) IEC 62321-8:2017 1000 50 N.D. N.D. N.D. N.D. GC-MS 50 N.D. 1000 Di-iso-butyl phthalate (DIBP) N.D. N.D. N.D. Pass Pass Conclusion 1 Pass Pass /

	0	6		C	Un	it: mg/kg	
Test Item(s)	Test Method/	© MDI	Result(s)				
	Equipment	33	34	36	37		
Di-(2-ethylhexyl) Phthalate (DEHP)	8	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)	Refer to	50	<sup>®</sup> N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017	50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)	GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		C D	Pass	Pass	Pass	Pass	/

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Unit	ma/ka
Unit.	IIIg/Kg

Unit: mg/kg

Test Item(s)	Test Method/ Equipment MDL	MDI	Result(s)				T :
		MDL	38	39	40	41	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Pafarta	<sup>©</sup> 50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017	50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)	GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion			Pass	Pass	Pass	Pass	© /
	- C.	8				Ur	it: mg/kg

Result(s) **Test Method**/ Test Item(s) MDL Limit Equipment 44 49 46 53 Di-(2-ethylhexyl) Phthalate (DEHP) 50 N.D. N.D. N.D. N.D. 1000 50 N.D. N.D. N.D. N.D. 1000 Dibutyl phthalate (DBP) Refer to IEC 62321-8:2017 50 N.D. N.D. N.D. N.D. 1000 Butylbenzyl phthalate (BBP) GC-MS N.D. 1000 Di-iso-butyl phthalate (DIBP) 50 N.D. N.D. N.D. Conclusion Pass Pass Pass Pass

	Test Method/	50	Result(s)		
lest item(s)	Equipment	MDL	56		
Di-(2-ethylhexyl) Phthalate (DEHP)	Pafer to	50	N.D.	1000	
Dibutyl phthalate (DBP)		50	N.D.	1000	
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017	50	N.D.	1000	
Di-iso-butyl phthalate (DIBP)	GC-MS	50	N.D.	1000	
Conclusion	8	/	Pass	<b>G</b> /	

Note: 1. MDL=Method Detection Limit

2. N.D.=Not Detected(less than method detection limit)

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NO.



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3.(1) Test result of the Pb, Cd, Hg, Cr<sup>6+</sup> content

			B	UI	in ing kg
Tost itom(s)	• Test Method/	MDI	Resi	Limit	
Test ttem(s)	Equipment	© NIDL	1-1	1-2	Linnt
Cadmium (Cd)	IEC 62321-5:2013	2	N.D.	N.D.	100
Lead (Pb)	ICP-OES	2	13	N.D.	1000
Mercury (Hg)	IEC 62321-4:2013+A1:2017 ICP-OES	20	N.D.	N.D.	1000
Hexavalent Chromium	IEC 62321-7-2:2017 UV-Vis	1	/	N.D.	1000
(Cr <sup>6+</sup> )	IEC 62321-7-1:2015 UV-Vis	See note	Negative		#
Conclusion			Pass	Pass	1

Note: 1. MDL=Method Detection Limit

- 2. N.D.=Not Detected(less than method detection limit)
- 3. mg/kg =parts per million
- 4. As specified by client, only test the designated sample.

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Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result					
-C		The sample is negative for Cr(VI) – The Cr(VI)					
1	The sample solution is <the 0,10="" <math="">\mug/cm<sup>2</sup></the>	concentration is below the limit of					
	equivalent comparison standard solution	quantification. The coating is considered a					
8		non-Cr(VI) based coating.					
	The sample solution is $\geq$ the 0,10 µg/cm <sup>2</sup>	The result is considered to be inconclusive –					
2	and $\leq$ the0,13 µg/cm <sup>2</sup> equivalent	Unavoidable coating variations may influence					
	comparison standard solutions	the determination.					
8		The sample is positive for Cr(VI) – The Cr(VI)					
- 2	The sample solution is > the 0,13 $\mu$ g/cm <sup>2</sup>	concentration is above the limit of quantification					
$\mathbf{C}$	equivalent comparison standard solution	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.(2) Test result of the PBBs, PBDEs content

C			B				
Trat item (a)	Test Method/	Test Method/	Res	Result(s)			
Test Item(s)	Equipment	MDL	1-1	1-2			
Mono-bromobiphenyl		5	N.D.	N.D.			
Di-bromobiphenyl		5	N.D.	N.D.			
Tri-bromobiphenyl	8	5	N.D.	N.D.	8		
Tetra-bromobiphenyl	C c	5	N.D.	N.D.	C.C		
Penta-bromobiphenyl		5	N.D.	N.D.			
Hexa-bromobiphenyl		5	N.D.	N.D.	®		
Hepta-bromobiphenyl	8	5	N.D.	N.D.	C		
Octa-bromobiphenyl		5	N.D.	N.D.			
Nona-bromobiphenyl	L'AN NO	5	N.D.	N.D.	8		
Deca-bromobiphenyl	0	5	N.D.	N.D.	5		
Polybrominated Biphenyls (PBBs)	GU G	®	N.D.	N.D.	1000		
Mono-bromodiphenyl ether	IEC 62321-6:2015	5	N.D.	N.D.			
Di-bromodiphenyl ether	GC-MS	5	N.D.	N.D.	ß		
Tri-bromodiphenyl ether		5	N.D.	N.D.	C.C		
Tetra-bromodiphenyl ether	NO S	5	N.D.	N.D.	No		
Penta-bromodiphenyl ether		5	N.D.	N.D.	8		
Hexa-bromodiphenyl ether	G	© 5	N.D.	N.D.	-0		
Hepta-bromodiphenyl ether		5	N.D.	N.D.			
Octa-bromodiphenyl ether		5	N.D.	N.D.	8		
Nona-bromodiphenyl ether		5	N.D.	N.D.	6		
Deca-bromodiphenyl ether		5 ®	N.D.	N.D.	.0		
Polybrominated Diphenyl Ethers(PBDEs)		NGC	N.D.	N.D.	1000		
Conclusion			Pass	Pass			

Note:

- 1. MDL=Method Detection Limit
  - 2. N.D.=Not Detected(less than method detection limit)
  - 3. mg/kg = parts per million
  - 4. "—"=Not regulated
  - 5. As specified by client, only test the designated sample.

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### 3.(3) Test result of DBP, BBP, DEHP, DIBP content

	Ollit. liig/kg				
Test Item(s)	Test Method/ Equipment	MDL	Result(s)		
			1-1	1-2	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	1000
Conclusion		<sub>®</sub> /	Pass	Pass	C/

Note: 3. MDL=Method Detection Limit

4. N.D.=Not Detected(less than method detection limit)

5. mg/kg = parts per million

6. As specified by client, only test the designated sample.

### Sample Description

1-1	Black outer shell	8		No	SC	8	8
1-2	White outer ring	200	~C	©		NO	5

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Page 16 of 20 Report No.: AGC-08009-19-08-02-001 Date: Sep.03, 2019 **Test Flow Chart** 1.For Pb Acid digestion with Weigh Sample Sample Preparation microwave/hotplate Filtration **ICP-OES** DATA 2.For metal Cr(VI) Boiling water extraction Adding 1,5- diphenylcarbazide for color Sample(s) Preparation development Compare with  $0.1\mu g/cm^2$  and  $0.13\mu g/cm^2$  standard UV-Vis DATA solution 3. For PBBs, PBDEs, DBP, BBP, DEHP, DIBP Concentration/ Cutting/Preparation Weigh Sample Sample solvent extraction Dilution of Extracted solution DATA GC-MS Filtration

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### 4. For Pb, Cd, Hg, Cr<sup>6+</sup>



These sample were dissolved totally by pre-conditioning method according to above flow chart ( $Cr^{6+}$  test method excluded)

As client's request, test results of No.1 to No.57 copied from test results of No.1 to No.57 test report No. AGC03507190403-001 respectively.

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### The photo of the sample



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