

Test Report

Report No.: A001R20170711029

Date: Jul.20, 2017

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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 : Slide USB with type C; Pivot USB with type C

Model No. : P300.11; P300.12

Sample Receiving Date : Jul.11, 2017

Testing Period : Jul.11, 2017 to Jul.20, 2017

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

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

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

Tested by: Huohuisu Luo

Luohuisu

Test Engineer

Reviewed by: Leon

Suhongliang, Leon

Test Team Leader

Approved by: Jason

Jiangyuncheng, Jason

Laboratory Manager



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Test Requested:
Conclusion

1. 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 Result(s):
Test Results:

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
1	Metal shell	BL	BL	BL	BL	-
2	White plastic shell	BL	BL	BL	BL	BL
3	Hot melt adhesive	BL	BL	BL	BL	BL
4	IC Ontology(IC)	BL	BL	BL	BL	BL
5	Pin(IC)	BL	BL	BL	BL	-
6	PCB board	BL	BL	BL	BL	X*
7	Tin solder	BL	OL*	BL	BL	-
8	Chip inductor	BL	BL	BL	BL	BL
9	Chip resistor	BL	BL	BL	BL	BL
10	SMD capacitor	BL	BL	BL	BL	BL
11	Patch IC	BL	BL	BL	BL	BL
12	Metal shell(USB plug)	BL	BL	BL	BL	-
13	Blue plastic plug(USB plug)	BL	BL	BL	BL	BL
14	Pin(USB plug)	BL	BL	BL	BL	-
15	Metal shell(TYPE-C plug)	BL	BL	BL	X*	-
16	Black plastic plug(TYPE-C plug)	BL	BL	BL	BL	BL
17	Pin(TYPE-C plug)	BL	BL	BL	BL	-
Difference						
18	Metal aluminum shell(Shell)	BL	BL	BL	BL	-
19	White plastic shell(Shell)	BL	BL	BL	BL	BL

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Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X$ $< 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X$ $< 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X$ $< 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X$ $< 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X$ $< 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	-	$BL \leq 250 - 3\sigma < X$

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.

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) Test Results of metal Cr⁶⁺

Test Item(s)	MDL	Result(s)	Limit
		15	
Hexavalent Chromium (Cr ⁶⁺)	**	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 µg/cm ² 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 ≥ the 0,10 µg/cm ² and ≤ the 0,13 µg/cm ² equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
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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2) The Test Results of PBBs & PBDEs

Unit:mg/kg

Item(s)	MDL	Result(s)	Limit
		6	
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	5	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	
Tribromobiphenyl	5	N.D.	
Tetrabromobiphenyl	5	N.D.	
Pentabromobiphenyl	5	N.D.	
Hexabromobiphenyl	5	N.D.	
Heptabromobiphenyl	5	N.D.	
Octabromobiphenyl	5	N.D.	
Nonabromodiphenyl	5	N.D.	
Decabromodiphenyl	5	N.D.	
Total content	/	N.D.	
Polybrominated Diphenylethers (PBDEs)			
Monobromodiphenyl ether	5	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	
Tribromodiphenyl ether	5	N.D.	
Tetrabromodiphenyl ether	5	N.D.	
Pentabromodiphenyl ether	5	N.D.	
Hexabromodiphenyl ether	5	N.D.	
Heptabromodiphenyl ether	5	N.D.	
Octabromodiphenyl ether	5	N.D.	
Nonabromodiphenyl ether	5	N.D.	
Decabromodiphenyl ether	5	N.D.	
Total content	/	N.D.	
Conclusion	/	Pass	/

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

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3) The Test Results of Pb

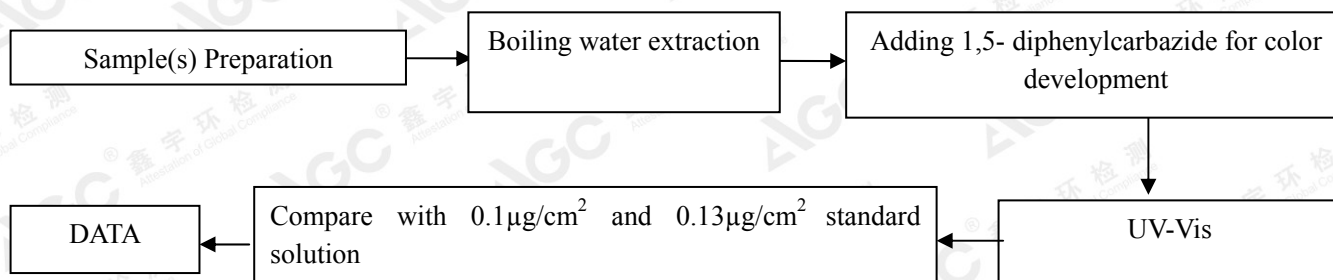
Test Item(s)	Unit	Result(s)
		7
Lead(Pb)	mg/kg	815

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

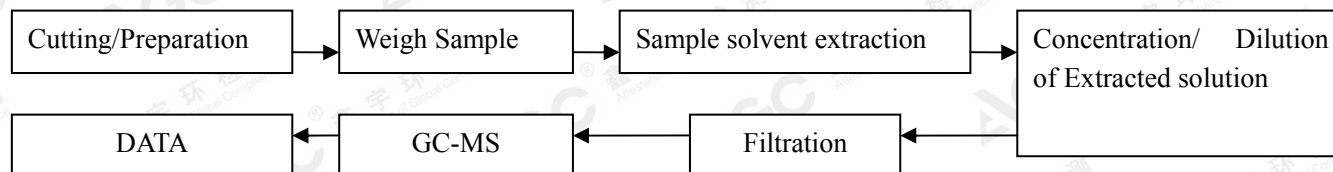
MDL = Method Detection Limit

Test Flow Chart

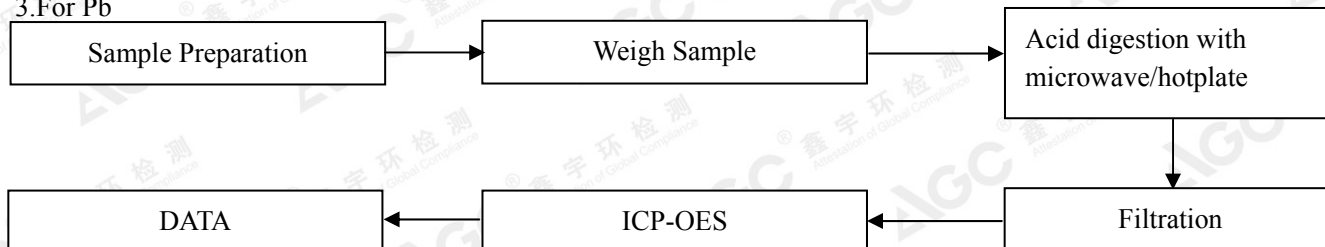
1.For metal Cr(VI)



2.For PBBs & PBDEs



3.For Pb



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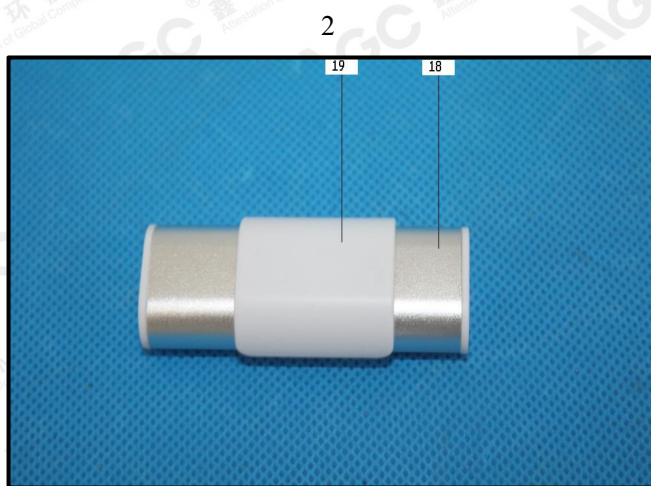
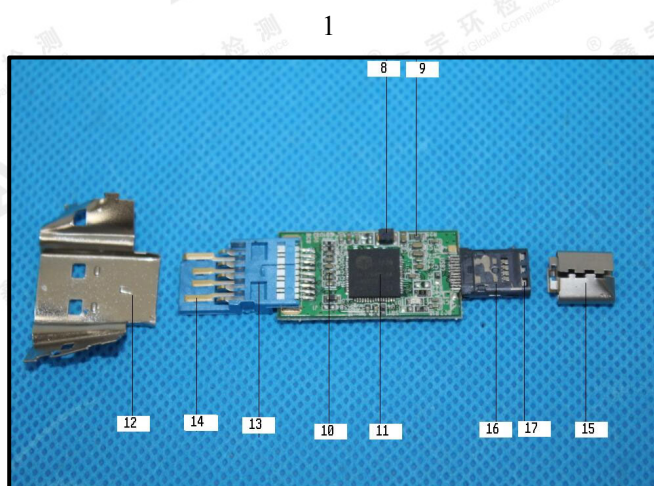
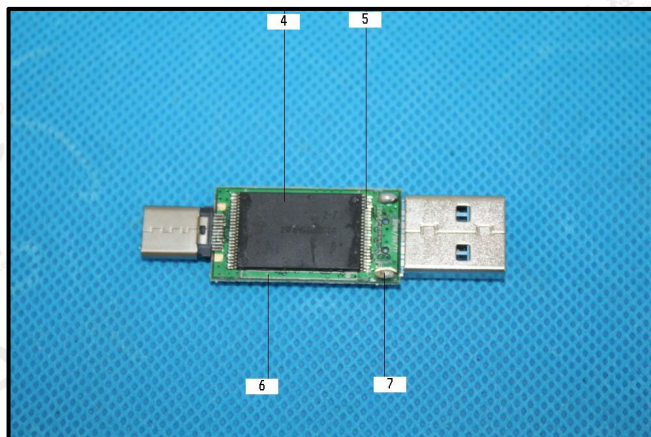
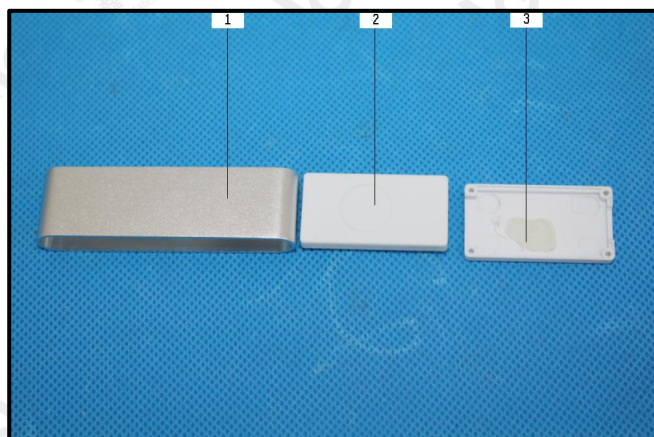
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The photo of the sample



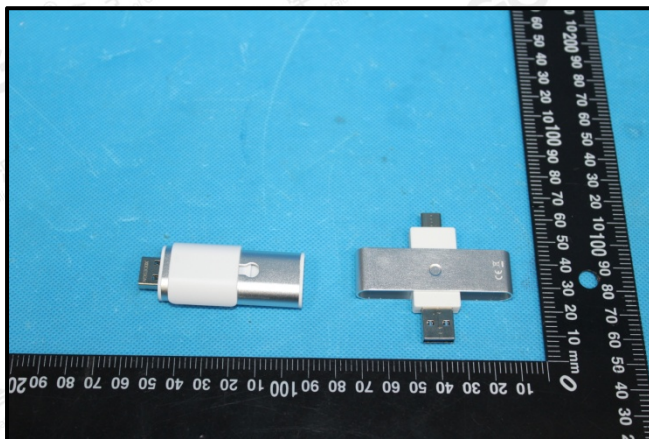
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AGC authenticate the photo only on original report

*** End of Report ***

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