

Report No.: AGC03507191005-002

Date: Oct.30, 2019

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Applicant: Address: Test site:

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

Sample Name:	charger cable with three plugs
Model No.:	1839
Item No.:	9215
Country of Origin:	CHINA
Country of Destination:	EUROPE
Sample Received Date:	Oct.11, 2019
Testing Period:	Oct.11, 2019 to Oct.30, 2019
Test Requested:	Please refer to following page(s
Test Method:	Please refer to following page(s
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Test Requested:

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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.

2. As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.

Pass

Pass

Conclusion

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1.Test Result(s) of Polycyclic Aromatic Hydrocarbons (PAHs)

0	-	O III	t. mg/kg		
Tost Itom(s)	Test Method	MDI	Result(s)	T :	
Test Item(s)	/Equipment	NIDL	G1 -1		
Benzo[a]anthracene (BaA)		0.1	N.D.	1	
Chrysene (CHR)		0.1	• N.D.	1	
Benzo[b]fluoranthene (BbFA)	6	0.1	N.D.	1.	
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	- 1	
Benzo[j]fluoranthene (BjFA)	AfPS GS 2014:01 PAK	0.1	N.D.	1	
Benzo[a]pyrene (BaP)	GC-MS	0.1	N.D.	_© 1	
Benzo[e]pyrene(BeP)		0.1	N.D.	1	
Dibenzo[a,h]anthracene (DBAhA)		0.1	N.D.	1	
Sum of 8 PAHs		. 7.	N.D.	The second secon	
Conclusion			Pass	/	

Note: 1. MDL=Method Detection Limit

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

3. "—"=Not regulated

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

Sample Description

1 1	White outside wire shooth	
1-1	white outside whe sheath	

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2.Test Methods:

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A: Screening by X-ray Fluorescence Spectrometry (XRF) : With reference to IEC 62321-3-1:2013 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	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015	UV-Vis	8
PBBs/PBDEs	IEC 62321-6:2015	GC-MS	5 mg/kg
Di-iso-butyl phthalate (DIBP)		GC-MS	50 mg/kg
Dibutyl phthalate (DBP)	IEC (2221 8-2017	GC-MS	50 mg/kg
Butylbenzyl phthalate (BBP)	1EC 02321-8.2017	GC-MS	50 mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)	NOV SC	GC-MS	50 mg/kg

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Test Results:

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

Seq.		Results(mg/kg)					
No.	lested Part(s)	Cd	Pb	Hg	Cr	Br	
1 ©	Red metal handle(USB plug)	BL	BL	BL	BL	N/A	
2	White glue(USB plug)	BL	BL	BL	BL	BL	
3	White plastic plug(USB plug)	BL	BL	BL	BL	BL	
4	Pin(USB plug)	BL	BL	BL	BL	N/A	
5	USB metal plug(USB plug)	BL	BL	BL	BL	N/A	
6	Solder(USB plug)	BL	BL	BL	BL	N/A	
7	White glue(Micro plug)	BL	BL	BL	BL	BL	
8	Solder(Micro plug)	BL	BL	BL	BL	N/A	
9	Grey plastic plug(Micro plug)	BL	BL	BL	BL	BL	
10	Thimble(Micro plug)	BL	BL	BL	X*	N/A	
11	Pin(Micro plug)	BL	BL	BL	BL	N/A	
12	Micro metal plug(Micro plug)	BL	BL	BL	X*	N/A	
13	White glue(TYPE-C plug)	BL	BL	BL	BL	BL	
14	Solder(TYPE-C plug)	BL	BL	BL	BL	N/A	
15	PCB board(TYPE-C plug)	BL	BL	BL	BL	X*	
16	Tin plating pin(TYPE-C plug)	BL	BL	BL	BL	N/A	
17	Grey plastic plug(TYPE-C plug)	BL	BL	BL	BL	BL	
18	TYPE-C metal plug(TYPE-C plug)	BL	BL	BL	X*	N/A	
19	Chip capacitor(TYPE-C plug)	BL	BL	BL	BL	BL	
20	Chip resistor(TYPE-C plug)	BL	BL	BL	BL	BL	
21	Red braided wire(Wire rod)	BL	BL	BL	BL	BL	
22	White outside wire sheath(Wire rod)	BL	BL	BL	BL	BL	
23	Red wire sheath(Wire rod)	BL	BL	BL	BL 💿	BL	
24	Wire core(Wire rod)	BL	BL	BL	BL	N/A	

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Seq.		Results(mg/kg)				
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br
25	Black wire sheath(Wire rod)	BL	BL	BL	BL	BL
26	PCB board(Thread buckle)	BL	BL	BL	BL	X*
27	Solder(Thread buckle)	BL	BL	BL	BL	N/A
28	White glue(Thread buckle)	BL	BL	BL	BL	BL
29	Red button(Thread buckle)	BL	BL	BL	BL	N/A
30	Key chain(rivet)	BL	BL	BL	BL	N/A
31	Rivet(rivet)	BL	BL	BL	BL	N/A
Blue	lifference		0	8		
32	Blue metal grip	BL	BL	BL	BL	N/A
33	Blue braid	BL	BL	BL	BL	BL
34	Blue line buckle	BL	BL	BL	BL	N/A
Black	difference		No.	N.C	0	8
35	Black metal grip	BL	BL	BL	BL	N/A
36	Black braided wire	BL	BL	BL	BL	BL
37	Black wire clasp	BL	BL	BL	BL	N/A
White	difference		0	e		
38	White metal grip	BL	BL	BL	BL	N/A
39	White braided yarn	BL	BL	BL	BL	BL
40	White line buckle	BL	BL	BL	BL	N/A

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Element	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>N/A</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	N/A	BL≤250-3σ <x< td=""></x<>

Note: BL= Below Limit

OL= Over limited

X= Inconclusive

"N/A"=Not applicable

*= 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.
- 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 RoHS directive 2011/65/EU and its amendment directive (EU) 2015/863:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominateddiphenylethers (PBDEs)	1000
Di-iso-butyl phthalate (DIBP)	1000
Dibutyl phthalate (DBP)	1000
Butylbenzyl phthalate (BBP)	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	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、 <u>The Test Results of Chemical Method:</u>

1)The Test Results of metal Cr⁶⁺

	MDI	Result(s)					
lest Item(s)	MDL	10	12	18			
Hexavalent Chromium (Cr ⁶⁺)	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
0		The sample is negative for $Cr(VI)$ – The $Cr(VI)$
- C	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 ²	The result is considered to be inconclusive –
2	and \leq the0,13 µg/cm ² equivalent	Unavoidable coating variations may influence
S	comparison standard solutions	the determination.
		The sample is positive for Cr(VI) – The Cr(VI)
2	The sample solution is > the 0,13 μ g/cm ²	concentration is above the limit of quantification
3	equivalent comparison standard solution	and the statistical margin of error. The sample
2	GU C .	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

	GU	C.	0	Unit:mg/kg	
Item(s)	MDL	Resu	lt(s)	Limit	
item(3)	®	15	26		
Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	5	N.D.	N.D.		
Dibromobiphenyl	5	N.D.	N.D.	0	
Tribromobiphenyl	5	N.D.	N.D.		
Tetrabromobiphenyl	5	N.D.	N.D.		
Pentabromobiphenyl	5	N.D.	N.D.		
Hexabromobiphenyl	5	N.D.	N.D.	Iotal PBBs Content <1000	
Heptabromobiphenyl	5	N.D.	N.D.		
Octabromobiphenyl	5	N.D.	N.D.		
Nonabromodiphenyl	© 5	N.D.	N.D.	e.C	
Decabromodiphenyl	5	N.D.	N.D.		
Total content		N.D.	N.D.		
PolybrominatedDiphenylethers (PBDEs)					
Monobromodiphenyl ether	5	N.D.	N.D.	- C	
Dibromodiphenyl ether	5	N.D.	N.D.	NGC	
Tribromodiphenyl ether	5	N.D.	N.D.		
Tetrabromodiphenyl ether	5	N.D.	N.D.		
Pentabromodiphenyl ether	65	N.D.	N.D.		
Hexabromodiphenyl ether	5	N.D.	N.D.	Total PBDEs	
Heptabromodiphenyl ether	5	N.D.	N.D.		
Octabromodiphenyl ether	5	N.D.	N.D.		
Nonabromodiphenyl ether	5	N.D.	N.D.		
Decabromodiphenyl ether	5	N.D.	N.D.	Ci o	
Total content		N.D.	N.D.	On C	
Conclusion	<0	Pass	Pass	1	

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

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3)Test result of DBP, BBP, DEHP, DIBP content

		Unit: mg/kg			
Test item Limit	DIBP	DBP	BBP	DEHP	Conclusion
Seq. No.	1000	1000	1000	1000	Not
	N.D.	N.D.	N.D.	N.D.	Pass
· 3	N.D.	N.D.	⊚ N.D.	N.D.	Pass
7 0	N.D.	N.D.	N.D.	N.D.	Pass
9 20	N.D.	N.D.	N.D.	N.D.	Pass
13	N.D.	N.D.	N.D.	N.D.	Pass
15 💿	N.D.	N.D.	N.D.	N.D.	Pass
17	N.D.	N.D.	N.D.	N.D.	Pass
. 19	N.D.	N.D.	N.D.	N.D.	Pass
20	N.D.	N.D.	N.D.	N.D.	Pass
21	N.D.	N.D.	N.D.	N.D.	Pass
· 22	N.D.	N.D.	0 N.D.	N.D.	Pass
23	N.D.	N.D.	N.D.	N.D.	Pass
25	N.D.	N.D.	N.D.	N.D.	Pass
26	N.D.	N.D.	N.D.	N.D.	Pass
28	N.D.	N.D.	N.D.	N.D.	Pass
33	N.D.	N.D.	N.D.	N.D.	Pass
36	N.D.	N.D.	N.D.	N.D.	Pass
39	N.D.	N.D.	N.D.	N.D.	Pass

Note: 1. MDL=Method Detection Limit

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

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Test Flow Chart

1. For PAHs



Test result on specimen No.3 was resubmitted on Oct.24, 2019.

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The photo of the sample



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