

Report No.: AGC00552181218-001

Date: Jan.24, 2019

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Applicant:Shenzhen Huafurui Technology Co., Ltd.Address:Unit 1401 & 1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden),
Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district,
Shenzhen,P.R. China

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

Sample Name:	Smart Phone
Sample Model:	X19
Brand:	CUBOT
Manufacturer:	Shenzhen Huafurui Technology Co., Ltd.
Address:	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden),
	Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district,
	Shenzhen, P.R. China
Test site:	1,6/F.,Building 2,No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang,
lest site.	Baoan District, Shenzhen, Guangdong, China
Sample Received Date:	Dec.27, 2018
Testing Period:	Dec.27, 2018 to Jan.24, 2019
Test Requested:	Please refer to following page(s).
Test Method:	Please refer to following page(s).
Test Result:	Please refer to following page(s).

Approved by:



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Test Requested:

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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, 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.

3. As specified by client, to determine theDBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863.

Pass

Pass

Conclusion

Pass

Test Methods:

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 ⁶⁺)	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	20°
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg

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Test Result(s):

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

		- 6	8	Unit: %,w/w
Test item(s)	Test Method/ Equipment	MDL	Result(s)	Limit
Lead (Pb)	Refer to	0.0005	N.D.	
Cadmium (Cd)	IEC 62321-5:2013 ICP-OES	0.0005	N.D.	0.002
Mercury (Hg)	Refer to IEC 62321-4: 2013+A1:2017 ICP-OES	0.0001	N.D.	0.0005
Conclusion			Pass	1

Note:

- 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

39 💿	Electric core (battery)
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Test Results:

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

Seq.	Tested Part(s)	C C	Results(mg/kg)				
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br	
1 ©	Touch-screen glass(Touch screen glass)	BL	BL	BL	BL	BL	
2	Black FPC(Touch screen glass)	BL	BL	BL	BL	BL	
3	Chip IC(Touch screen glass)	BL	BL	BL	BL	BL	
4	Brown tape(Touch screen glass)	BL	BL	BL	BL	BL	
5	Display glass(Display)	BL	BL	BL	BL	BL	
6	Lower diffusion(Display)	BL	BL	BL	BL	BL	
7	Upper intensify(Display)	BL	BL	BL	BL	BL	
8	Light guide plate(Display)	BL	BL	BL	BL	BL	
9	Reflector panel(Display)	BL	BL	BL	BL	BL	
10	Black cotton stick(Partition)	BL	BL	BL	BL	BL	
11	Metal clapboard(Partition)	BL	BL	BL	BL	- C	
12	Black plastic frame(Partition)	BL	BL	BL	BL	BL	
13	Copper nut(Partition)	BL	OL*	BL	BL	_ 0	
14	Black double-sided adhesive(Partition)	BL	BL	BL	BL	BL	
15	Phone back cover	BL	BL	BL	BL	BL	
16	Black plastic frame(Frame)	BL	BL	BL	BL	BL	
17	Transparent lamp shade(Frame)	G BL	BL	BL	BL	BL	
18	Camera lens(Frame)	BL	BL	BL	BL	BL	
19	Black screw	BL	BL	BL	BL	60	
20	Black shade(Receiver)	BL	BL	BL	BL	BL	
21	Metal contact piece(Receiver)	BL	BL	BL	X*	<u> </u>	
22	Black plastic frame(Receiver)	BL	BL	BL	BL	BL	
23	Magnetic shielding cover(Receiver)	BL	BL	BL	BL	-	
24	Copper contact piece(Connecting plate)	BL	BL	BL	X*	-	

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Seq.	Tested Part(s)	6	Results(mg/kg)				
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br	
25	Chip microphone(Connecting plate)	BL	BL	BL	BL	BL	
26	FPC(Connecting plate)	BL	BL	BL	BL	BL	
27	Tin solder(Connecting plate)	BL	BL	BL	BL		
28	TYPE-C Metaljoint(Connecting plate)	BL	BL	BL	BL	0	
29	Red wire jacket(Motor)	BL	BL	BL	BL	BL	
30	Black cotton stick(Motor)	BL	BL	BL	BL	BL	
31	Silver metal shell(Motor)	BL	BL	BL	BL	G -	
32	Silver magnet(Motor)	BL	BL	BL	BL	-	
33	Blue wire jacket(Motor)	BL	BL	BL	BL	BL	
34	Wire core(Motor)	BL	BL	BL	BL		
35	Black plastic stents(Motor)	BL	BL	BL	BL	X*	
36	Enameled wire(Motor)	BL	BL	BL	BL	<u> </u>	
37	FPC connecting piece	BL	BL	BL	BL	BL	
38	Silver tape(Battery)	BL	BL	BL	BL	BL	
40	Brown tape(Battery)	BL	BL	BL	BL	BL	
41	Tin solder(Battery)	BL	BL	BL	BL	-	
42	Black PCB board(Battery)	BL	BL	BL	BL	X*	
43	Chip IC(Battery)	BL ®	BL	BL	BL	BL	
44	Tin plating pin(Battery)	BL	BL	BL	BL	-	
45	Metal contact piece(Speaker)	BL	BL	BL	X*		
46	Black plastic frame(Speaker)	BL	BL	BL	BL	BL	
47	Magnetic shielding cover(Speaker)	BL	BL	BL	BL	® -	
48	Black metal cassette	BL	BL	BL	X*	0.	
49	Copper terminal(Antenna)	BL	BL	BL	BL	-	
50	Black wire jacket(Antenna)	BL	BL	BL	BL	BL	
51	FPC(Front camera)	BL®	BL	BL	BL	BL	

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Seq.	Tested Devit(a)	6	Results(mg/kg)				
No.	• Tested Part(s)	Cd	[©] Pb	Hg	Cr	Br	
52	Black plastic seat(Front camera)	BL	BL	BL	BL®	BL	
53	Transparent lens(Front camera)	BL	BL	BL	BL	BL	
54	Square glass(Front camera)	BL	BL	BL	BL	BL	
55	Chip core(Front camera)	BL	BL	BL	BL	BL	
56	Black plastic seat(Rear Camera)	BL	BL	BL	BL	BL	
57	Transparent lens(Rear Camera)	BL	BL	BL	BL	BL	
58	Chip core(Rear Camera)	BL	BL	BL	BL	BL	
59	FPC(Rear Camera)	BL	BL	BL	BL	BL	
60	FPC(Fingerprint unlock key)	BL	BL	BL	BL	BL	
61	Blue touch button(Fingerprint unlock key)	BL	BL	BL	BL	.0	
62	Metal shield cover(Main board)	BL	BL	BL	BL	-	
63	Chip IC(Main board)	BL	BL	BL	BL	BL	
64	Metal holder(Main board)	BL	BL	BL	X*	G-	
65	Black plastic slot(Main board)	BL	BL	BL	BL	BL	
66	Patch actinic lamp(Main board)	BL	BL	BL	BL	BL	
67	Chip inductor(Main board)	BL	BL	BL	X*	BL	
68	Chip resistor(Main board)	BL	BL	BL	BL	BL	
69	Chip capacitor(Main board)	BL ®	BL	BL	BL	BL	
70	Tin solder(Main board)	BL	BL	BL	BL	-	
71	Blue PCB board(Main board)	BL	BL	BL	BL	X*	
72	Black audio holder(Main board)	BL	BL	BL	BL	BL	
73	White plastic shell(Shell)	BL	BL	BL	BL	BL	
74	Metal plug(Shell)	BL	BL	BL	BL	0.	
75	Metal contact piece	BL	BL	BL	BL	-	
76	Black heat shrinkable casing(Fuse)	BL	BL	BL	BL	BL	
77	Khaki fuse(Fuse)	BL®	BL	BL	BL	BL	

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Seq.	Tostad Dout(s)	8	Results(mg/kg)				
No.	Tested Part(s)	Cd	[©] Pb	Hg	Cr	Br	
78	Black thermistor	BL	BL	BL	BL	BL	
79	Green sleeving(Electrolytic capacitor)	BL	BL	BL	BL	BL	
80	Aluminum shell(Electrolytic capacitor)	BL	BL	BL	BL		
81	Ceramic capacitance	BL	BL	BL	BL	BL	
82	USB metal joint(USB joint)	BL	BL	BL	BL	9.	
83	White plastic contact(USB joint)	BL	BL	BL	BL	_© X*	
84	Three layer insulation line(Transformer)	BL	BL	BL	BL	BL	
85	Transparent sleeving(Transformer)	BL	BL	BL	BL	BL	
86	Yellow tape(Transformer)	BL	BL	BL	BL	BL	
87	Black plastic skeleton(Transformer)	BL	BL	BL	BL	BL	
88	Tin solder	BL	BL	BL	BL	-	
89	PCB board	BL	BL	BL	BL	X*	
90	Chip resistor	BL	BL	BL	BL	BL	
91	Chip capacitor	BL	BL	BL	BL	BL	
92	Black plastic piece	BL	BL	BL	BL	BL	
93	Chip IC	BL	BL	BL	BL	BL	
94	White handle(USB plug)	BL	BL	BL	BL	BL	
95	Transparent inner glue(USB plug)	BL o	BL	BL	BL	BL	
96	Tin solder(USB plug)	BL	BL	BL	BL	-	
97	White plastic plug(USB plug)	BL	BL	BL	BL	BL	
98	Contact pin(USB plug)	BL	BL	BL	BL	0-	
99	USB metal plug(USB plug)	BL	BL	BL	BL	© -	
100	Tin solder(TYPE-C plug)	BL	BL	BL	BL	0.	
101	Green PCB board(TYPE-C plug)	BL	BL	BL	BL	X*	
102	Tin plated pin(TYPE-C plug)	BL	BL	BL	BL	-	
103	White plastic plug(TYPE-C plug)	BL	BL	BL	BL	X*	

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Seq.	Tested Part(s)	Results(mg/kg)				
No.		Cd	Pb	Hg	Cr	Br
104	Type-c metal plug(TYPE-C plug)	BL	BL	BL	X* ®	_
105	White outer wire jacket(Wire rod)	BL	BL	BL	BL	BL
106	Red wire jacket(Wire rod)	BL	BL	BL	BL	BL
107	Black wire jacket(Wire rod)	BL	BL	BL	BL	BL
108	White wire jacket(Wire rod)	BL	BL	BL	BL	BL
109	Wire core(Wire rod)	BL	BL	BL	BL	® -
110	Green wire jacket(Wire rod)	BL	BL	BL	BL	BL

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></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.
- iii 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)	© 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.

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B、 The Test Results of Chemical Method:

1) The Test Results of Pb

Test Item(s)	Unit	Result(s)	
rest rem(s)		13	
Lead(Pb)	mg/kg	34125*	

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

mg/kg = parts per million

MDL = Method Detection Limit

1 = As claimed by the material declaration submitted by the client, the materials of the sample No.13 is copper alloy, according to the RoHS 2011/65 / EU, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

2) The Test Results of non-metal Cr⁶⁺

Test Item(s)	Unit	Result(s) 67	Limit
Hexavalent Chromium(Cr ⁶⁺)	mg/kg	N.D.	1000

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

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3)The Test Results of metal Cr⁶⁺

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Track Marrie (a)	MDI	Result(s)							
Test Item(s)	tem(s) MDL	21	24	45	48	64	104	Limit	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	Negative	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="" cm<sup="" μg="">2 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.
	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
e.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 μ g/cm ²	concentration is above the limit of quantification
3 _©	equivalent comparison standard solution	and the statistical margin of error. The sample
C.C		coating is considered to contain Cr(VI).

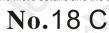
=Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.

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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4) The Test Results of PBBs & PBDEs

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6						Unit: mg/kg
Item(s)	MDL		Resu	ılt(s)	0	Limit
Itelli(s)	MIDL	35	42	71	83	Linin
Polybrominated Biphenyls (PBI	Bs)					
Monobromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	5	N.D	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	Total PBBs Content <1000
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	Content <1000
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	1	N.D.	N.D.	N.D.	N.D.	
Polybrominated Diphenylethers	s (PBDEs)					
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	J C
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	No.
Hexabromodiphenyl ether	© 5	N.D.	N.D.	N.D.	N.D.	Total PBDEs Content <1000
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5 (N.D.	N.D.	N.D.	N.D.	
Total content	L.C	N.D.	N.D.	N.D.	N.D.	
Conclusion		Pass	Pass	Pass	Pass	/

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	<u> </u>	8	0		Unit: mg/l
Item(s)	MDL	GU	Result(s)	0	Limit
		89 101		103	
Polybrominated Biphenyls (P	BBs)			_	
Monobromobiphenyl	5	N.D.	N.D.	N.D.	
Dibromobiphenyl	5	N.D.	N.D.	N.D.	
Tribromobiphenyl	5 @	N.D.	N.D.	N.D.	6
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	Total PBBs Content <1000
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl	。 5	N.D.	N.D.	N.D.	6
Decabromodiphenyl	5	N.D.	N.D.	N.D.	
Total content	10	N.D.	N.D.	N.D.	
Polybrominated Diphenylethe	ers (PBDEs)				
Monobromodiphenyl ether	5 8	N.D.	N.D.	N.D.	-C
Dibromodiphenyl ether	5	N.D.	N.D. 💿	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	0
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	Total PBDEs Content <1000
Heptabromodiphenyl ether	\$ 5	N.D.	N.D.	N.D.	
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	1	N.D.	N.D.	N.D.	
Conclusion	I.C	Pass	Pass	Pass	

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

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

	- CO	C	C			Ur	it: mg/kg
	Test Method/	MDL	GC	.			
Test Item(s)	Equipment		1	2	3	64	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer 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		18	Pass	Pass	Pass	Pass	51

Unit: mg/kg

Bert Harry (a)	Test Method/ Equipment	MDL -	6	T ::4			
Test Item(s)			5	6	7	8	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer 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		P	Pass	Pass	Pass	Pass	G /
8				8		Un	it ma/ka

NO GO C	Test Method/	MDL	Result(s)				it: mg/kg
Test Item(s)	Equipment		9	10	12	14	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer 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		1®	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

	Test Method/ Equipment	MDL	8	Limit			
Test Item(s)			15	16	17	18	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	60	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	© /
	- 6	8				Un	it: mg/kg

Result(s) **Test Method**/ Test Item(s) MDL Limit Equipment 25 20 22 26 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

		Č				Unit: mg/kg	
CC True Harris	Test Method/	MDI	- C	Limit			
Test Item(s)	Equipment	MDL	29	30	33	35	Liiiit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer 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	C /

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Unit: mg/kg

	Test Method/ Equipment	MDL	[®]	T - 1			
Test Item(s)			37	38	40	42	- Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer 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

Test Item(s)	Test Method/	MDL	Result(s)				T :14
	Equipment		43	46	50	51	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer 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	® /

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Unit: mg/kg

Unit: mg/kg

	Test Method/	MDL	Ē	T			
Test Item(s)	Equipment		52	53	54	55	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	0	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) I	EC 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	8	1	Pass	Pass	Pass	Pass	© /
	- 6	8				Un	it: mg/kg

Result(s) **Test Method**/ Test Item(s) MDL Limit Equipment 56 57 58 59 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/	d/ MDL -		Result(s)				
Test Item(s)	Equipment		60	63	65	66	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	0		Pass	Pass	Pass	Pass	C /	

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Unit: mg/kg

Test Item(s)	Test Method/		C	Rest	T :		
	Equipment	MDL	67	68	69	71	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer 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		1	Pass	Pass	Pass	Pass	© /

Unit: mg/kg **Result(s) Test Method**/ MDL Test Item(s) Limit Equipment 72 73 77 76 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. N.D. 1000 Di-iso-butyl phthalate (DIBP) N.D. N.D. Pass Pass Conclusion Pass Pass

				Unit: mg/k				
	Test Method/ Equipment	MDI	Result(s)					
Test Item(s)		MDL	78	79	81	83	Limit	
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer 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		1®	Pass	Pass	Pass	Pass	/	

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Unit: mg/kg

	Test Method/		C	.			
Test Item(s)	Equipment	MDL	84	85	86	87	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer 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) II	EC 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	R		Pass	Pass	Pass	Pass	© /

	No	- C	C		8	Un	nit: mg/kg
	Test Method/		G				
Test Item(s)	Equipment	MDL	89	90	91	92	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer 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	GC	ľ	Pass	Pass	Pass	Pass	\mathbf{O}_{I}
		3	-	ų	8	Un	nit: mg/kg

Test Item(s)	Test Method/ Equipment MDL	MDI	C.	T			
		MDL	93	94	95	97	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	J. CC		Pass	Pass	Pass	Pass	1

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Unit: mg/kg

Test Item(s)	Test Method/	MDI	C	T			
	Equipment	MDL	101	103	105	106	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	GC C	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	8	1	Pass	Pass	Pass	Pass	

8				®	Ur	nit: mg/kg	
	Test Method/	ethod/		Result(s)			
Test Item(s)	Equipment	MDL	107	108	110	- Limit	
Di-(2-ethylhexyl) Phthalate (DEHP)		50	N.D.	N.D.	N.D.	1000	
Dibutyl phthalate (DBP)	Refer to	50	N.D.	N.D.	N.D.	1000	
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017	50	N.D.	N.D.	N.D.	1000	
Di-iso-butyl phthalate (DIBP)	GC-MS	50	N.D.	N.D.	N.D.	1000	
Conclusion	SGC	ľ	Pass	Pass	Pass		

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

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Report No.: AGC00552181218-001 Date: Jan.24, 2019 Page 21 of 27 **Test Flow Chart** 1.For Lead(Pb), Cadmium(Cd), Mercury(Hg)(2006/66/EC) Add digestion reagent, cover Sample preparation Place it in suitable container and weight sample container and digest sample Filter, transfer filtrate to Analyze solution by ICP-OES Data process volumetric flask 2.For Pb & Cd Acid digestion with Sample Preparation Weigh Sample microwave/hotplate **ICP-OES** DATA Filtration 3.For non-metal Cr(VI) pH adjustment to 7.5±0.5 Weigh Sample Sample pretreatment Adding 1,5-diphenylcarbazide DATA UV-Vis for color development 4.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

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4. For PBBs, PBDEs, D	BP, BBP, DEHP, DIBP		
Cutting/Preparation	Weigh Sample	Sample solvent extraction	Concentration/ Dilution of Extracted solution
DATA	GC-MS	Filtration	

Test result on specimen No.102 was resubmitted on Jan.22, 2019.

The photo of the sample



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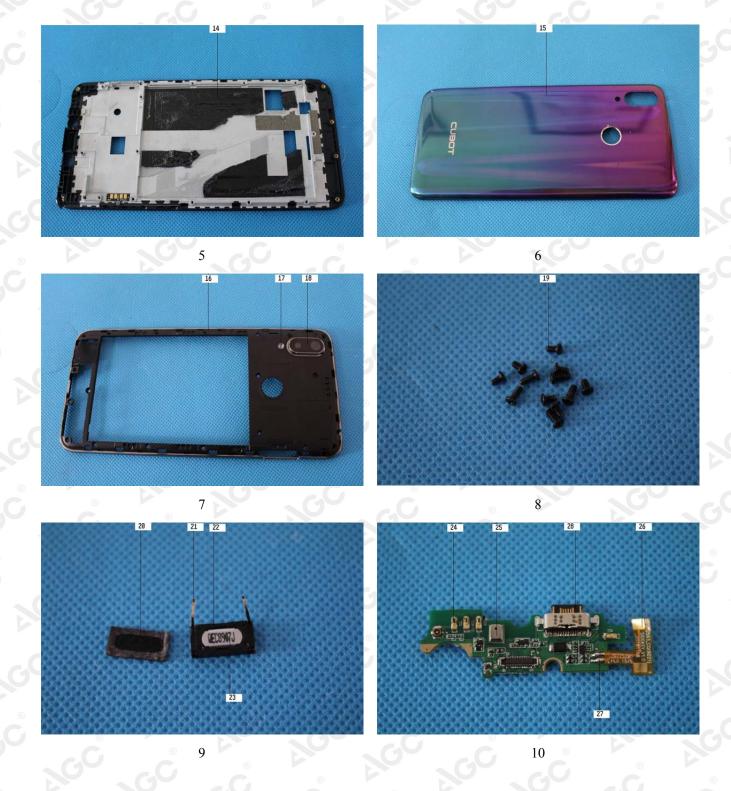
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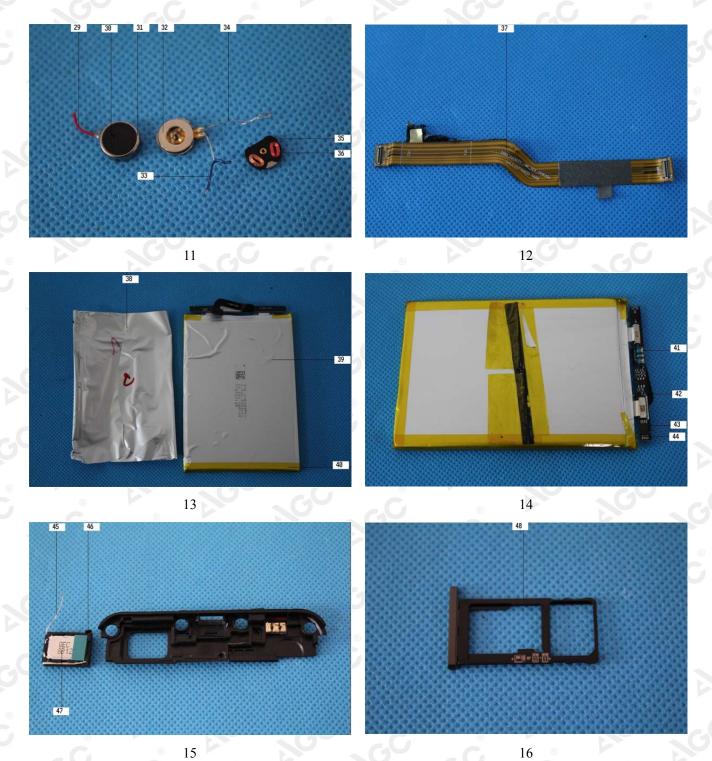
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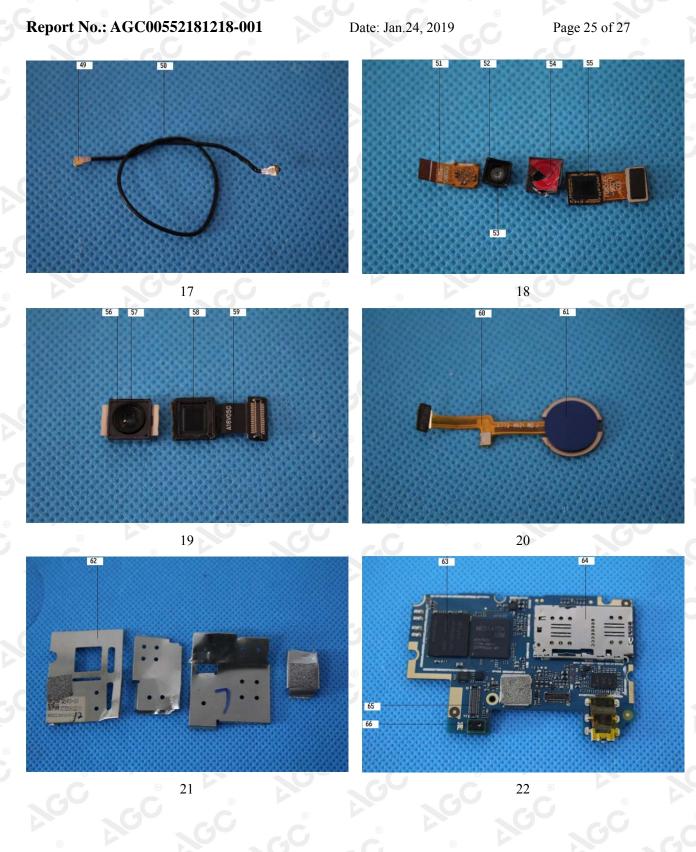
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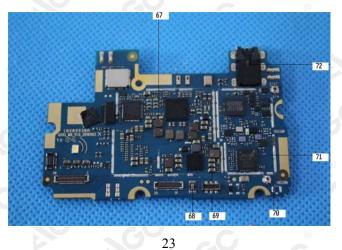


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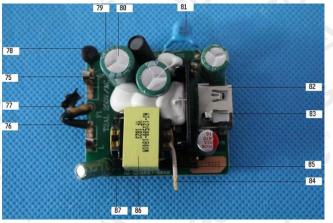
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74





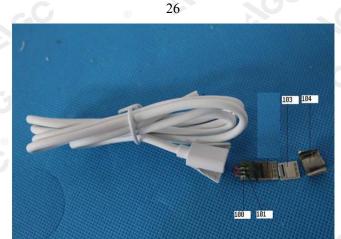
73











28

27

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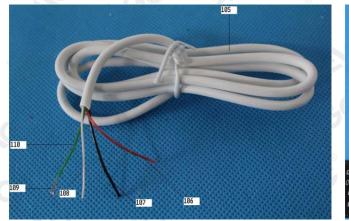
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