

Test Report

Report No.: AGC02182180402-001

Date: May 02, 2018

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Applicant: SHENZHEN INECAN ELECTRONIC CO., LTD
Address: 54A, PUXIA ROAD LIUYUE COMMUNITY, HENGANG STREET, LONGGANG DISTRICT, SHENZHEN, GUANGDONG PROVINCE 518173, CHINA.

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

Sample Name: Bluetooth headphone
Model No.: CNS-CBTHS2
Brand: CANYON
Manufacturers: Shenzhen Inecan Electronic Co., Ltd
Address: 54A Puxia Road, Liuyue Village, Henggang, Longgang District, Shenzhen, China
Sample Received Date: Apr. 24, 2018
Testing Period: Apr. 24, 2018 to May 02, 2018

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

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

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

Tested by: Luoxiao

Luoxiao

Test Engineer

Reviewed by: Leon

Suhongliang, Leon

Test Team Leader

Approved by: Lewis

Liulmw, Lewis

Technical Director



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Test Requested:

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.

2. 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.

Conclusion
Pass
Pass
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 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	/
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. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
1	Blue plastic frame (Head frame)	BL	BL	BL	BL	BL
2	Metal shaft (Head frame)	BL	BL	BL	BL	-
3	Black rubber frame (Head frame)	BL	BL	BL	BL	BL
4	Black wire jacket (Connecting line)	BL	BL	BL	X*	BL
5	Green enameled wire (Connecting line)	BL	BL	BL	BL	-
6	Brown enameled wire (Connecting line)	BL	BL	BL	BL	-
7	Red enameled wire (Connecting line)	BL	BL	BL	BL	-
8	Blue enameled wire (Connecting line)	BL	BL	BL	BL	-
9	Blue plastic case (Ear case)	BL	BL	BL	BL	BL
10	Silver coating (Ear case)	BL	BL	BL	BL	BL
11	Black screw (Screw components)	BL	BL	BL	BL	-
12	Silver screw (Screw components)	BL	BL	BL	BL	-
13	Black foam (Speaker)	BL	BL	BL	BL	BL
14	White dustproof net (Speaker)	BL	BL	BL	BL	BL
15	Black plastic frame (Speaker)	BL	BL	BL	X*	BL
16	Tin solder (Speaker)	BL	BL	BL	BL	-
17	PCB board (Speaker)	BL	BL	BL	BL	X*
18	Tin solder (Speaker)	BL	BL	BL	BL	-
19	Silver magnet (Speaker)	BL	BL	BL	BL	-
20	Vibrating diaphragm (Speaker)	BL	BL	BL	BL	BL
21	Enameled wire (Speaker)	BL	BL	BL	BL	-
22	Black leather (Earlap)	BL	BL	BL	BL	BL
23	Black mesh cloth (Earlap)	BL	BL	BL	BL	BL
24	White sponge (Earlap)	BL	BL	BL	BL	BL
25	PCB board	BL	BL	BL	BL	X*

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
26	Tin solder	BL	BL	BL	BL	-
27	Black plastic seat (Headset holder)	BL	BL	BL	BL	BL
28	Metal sheet (Headset holder)	BL	BL	BL	BL	-
29	Black plastic button (Touch switch)	BL	BL	BL	BL	BL
30	White plastic seat (Touch switch)	BL	BL	BL	BL	BL
31	Chip IC	BL	BL	BL	BL	BL
32	Chip crystal oscillator	BL	BL	BL	BL	BL
33	Chip capacitor	BL	BL	BL	BL	BL
34	Chip diode	BL	BL	BL	BL	BL
35	Micro metal connector (Micro connector)	BL	BL	BL	BL	-
36	Black plastic contact (Micro connector)	BL	BL	BL	BL	BL
37	Contact pin (Micro connector)	BL	BL	BL	BL	-
38	Copper shell (Micro head)	BL	BL	BL	BL	-
39	PCB board (Micro head)	BL	BL	BL	BL	X*
40	Tin solder (Micro head)	BL	BL	BL	BL	-
41	Red wire jacket (Micro head)	BL	BL	BL	BL	BL
42	Wire core (Micro head)	BL	BL	BL	BL	-
43	Black wire jacket (Micro head)	BL	BL	BL	BL	BL
44	Brown tape (Battery)	BL	BL	BL	BL	BL
46	Yellow gummed paper (Battery)	BL	BL	BL	BL	BL
47	Tin solder (Battery)	BL	BL	BL	BL	-
48	PCB board (Battery)	BL	BL	BL	BL	X*
49	Black wire jacket (Battery)	BL	BL	BL	BL	BL
50	Wire core (Battery)	BL	BL	BL	BL	-
51	Red wire jacket (Battery)	BL	BL	BL	BL	BL
52	Chip IC (Battery)	BL	BL	BL	BL	BL

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

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
53	Pin (Battery)	BL	BL	BL	BL	-
USB line						
54	Black handle (USB plug)	BL	BL	BL	BL	BL
55	Tin solder (USB plug)	BL	BL	BL	BL	-
56	White plastic plug (USB plug)	BL	BL	BL	BL	BL
57	Contact pin (USB plug)	BL	BL	BL	BL	-
58	USB metal plug (USB plug)	BL	BL	BL	BL	-
59	Tin solder (Micro plug)	BL	BL	BL	BL	-
60	Black plastic plug (Micro plug)	BL	BL	BL	BL	BL
61	Metal thimble (Micro plug)	BL	BL	BL	X*	-
62	Contact pin (Micro plug)	BL	BL	BL	BL	-
63	Micro metal plug (Micro plug)	BL	BL	BL	X*	-
64	Black outer wire jacket (Wire)	BL	BL	BL	BL	BL
65	Red wire jacket (Wire)	BL	BL	BL	BL	BL
66	Wire core (Wire)	BL	BL	BL	BL	-
67	Black wire jacket (Wire)	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.

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Remark:

- i 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 non-metal Cr⁶⁺

Test Item(s)	Unit	Result(s)		Limit
		4	15	
Hexavalent Chromium(Cr ⁶⁺)	mg/kg	N.D.	N.D.	1000

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

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2) The Test Results of metal Cr⁶⁺

Test Item(s)	MDL	Result(s)		Limit
		61	63	
Hexavalent Chromium (Cr ⁶⁺)	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
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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3) The Test Results of PBBs & PBDEs

Unit: mg/kg

Item(s)	MDL	Result(s)				Limit
		17	25	39	48	
Polybrominated Biphenyls (PBBs)						
Monobromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	Total PBBs Content <1000
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.	
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 Diphenylethers (PBDEs)						
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	Total PBDEs Content <1000
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.	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
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	/	N.D.	N.D.	N.D.	N.D.	
Conclusion	/	Pass	Pass	Pass	Pass	/

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

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2.Test Result(s) of Lead, Cadmium, Mercury :

Unit: %,w/w

Test item(s)	Test Method- Equipment	MDL	Result(s)	Limit
			45	
Lead (Pb)	Refer to IEC 62321-5:2013 ICP-OES	0.0005	N.D.	—
Cadmium (Cd)		0.0005	N.D.	0.002
Mercury (Hg)	Refer to IEC 62321-4:2013, ICP-OES	0.0001	N.D.	0.0005
Conclusion	-	-	Pass	/

Note:

- 0.1%,w/w=1000 mg/kg
- N.D.=Not Detected(less than method detection limit)
- MDL = Method Detection Limit
- “—”=Not regulated

Sample Description:

45	Electric core
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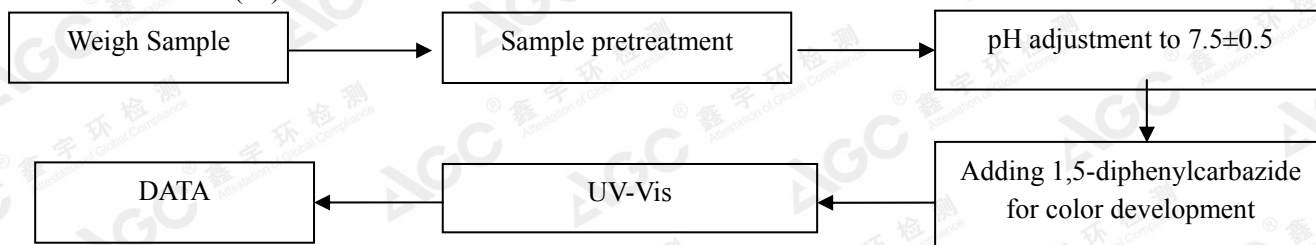
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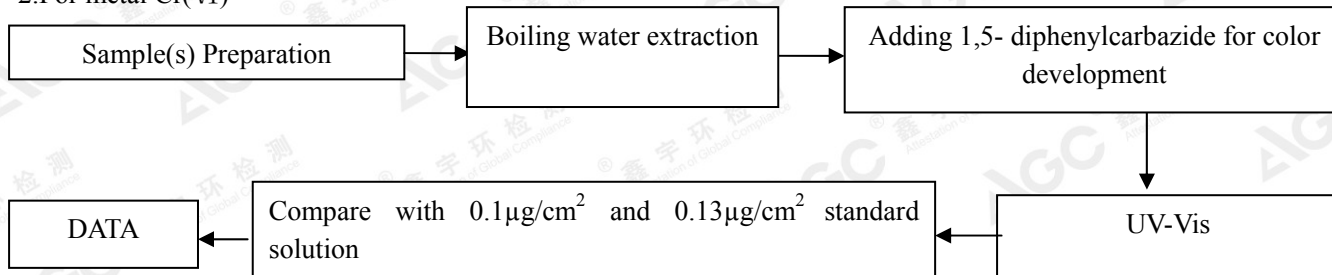
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Test Flow Chart

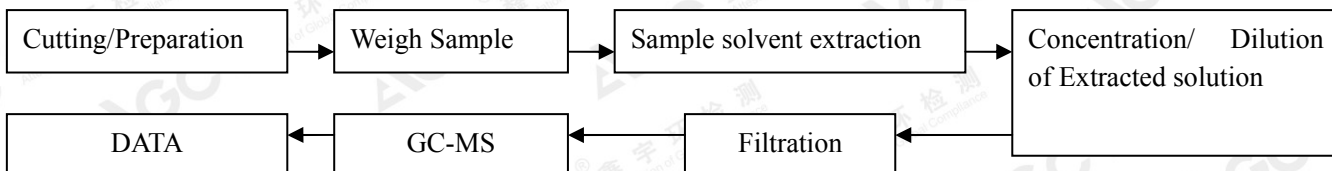
1. For non-metal Cr(VI)



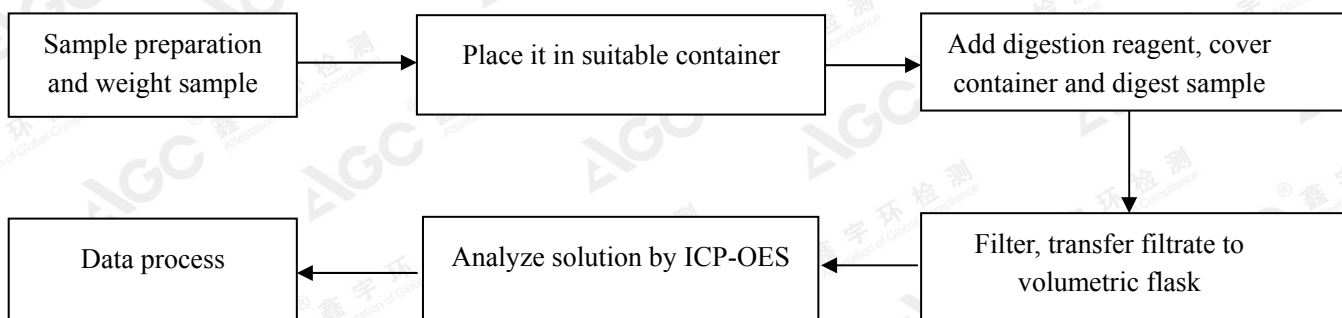
2. For metal Cr(VI)



2. For PBBs & PBDEs



3. The Test Flow Chart of Lead, Cadmium, Mercury



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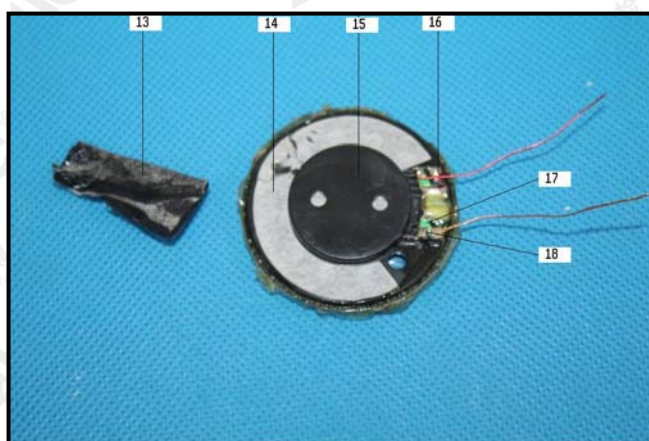
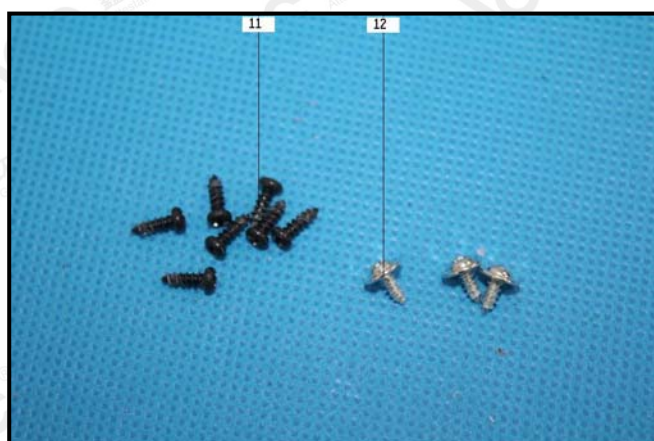
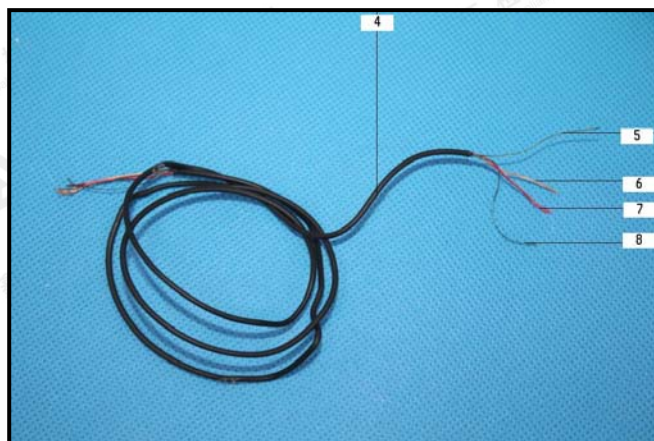
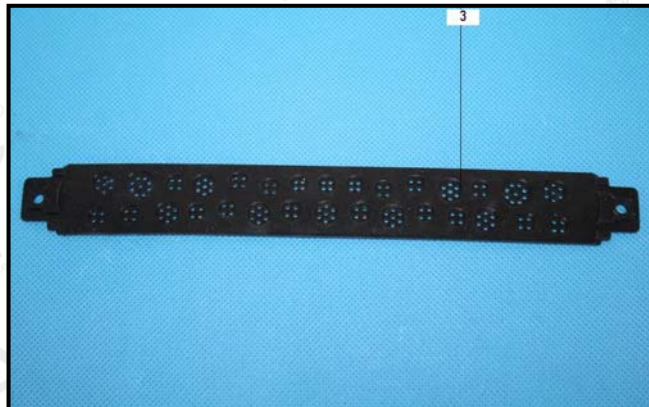
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The photo of the sample



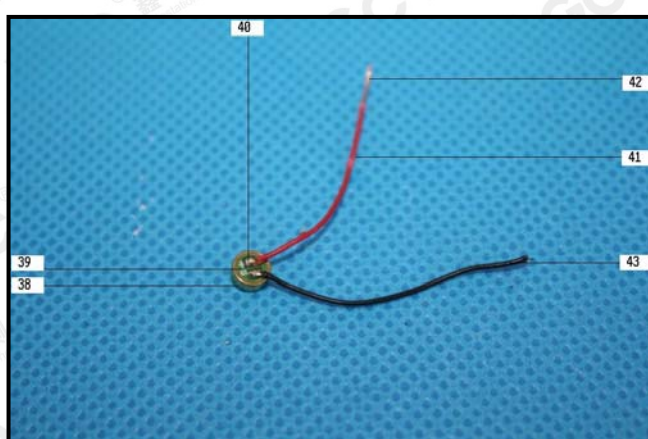
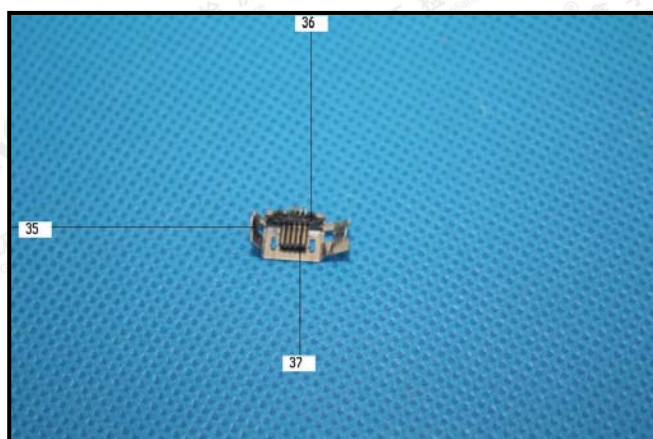
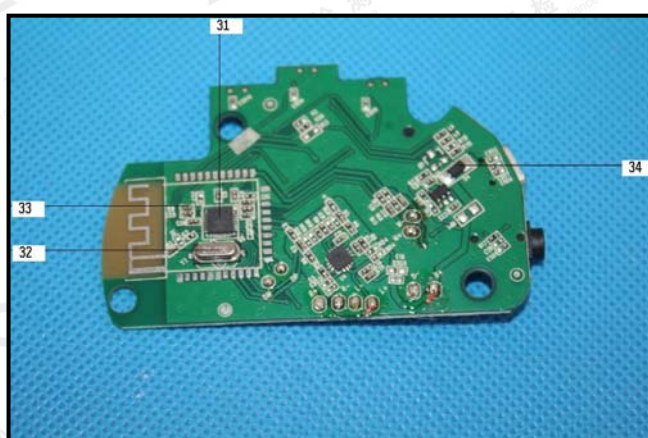
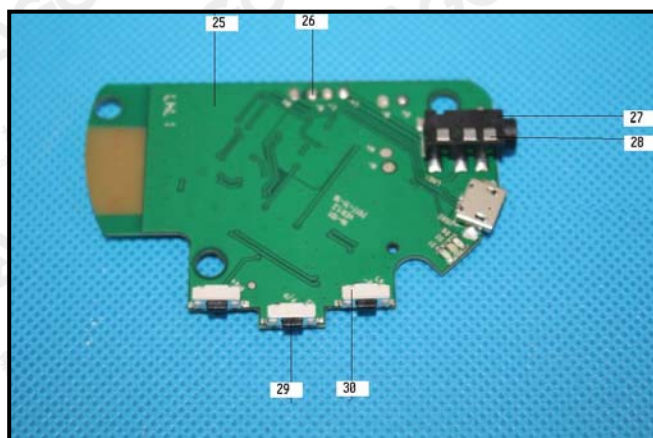
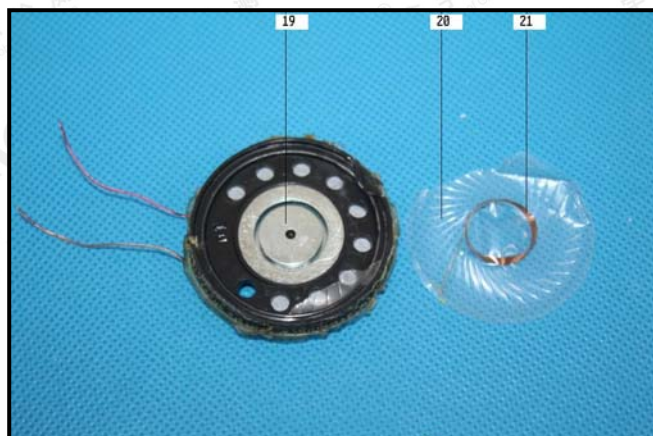
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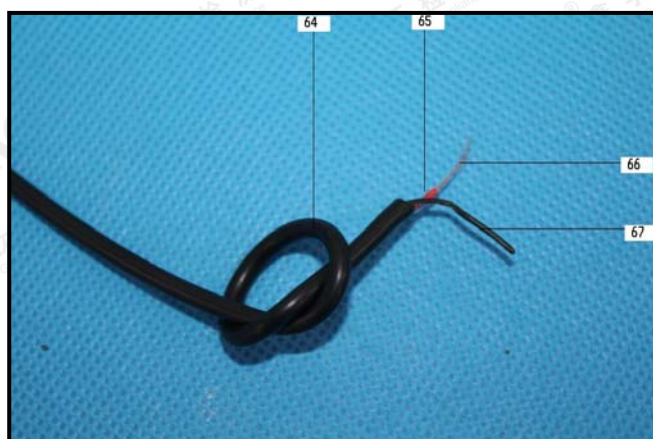
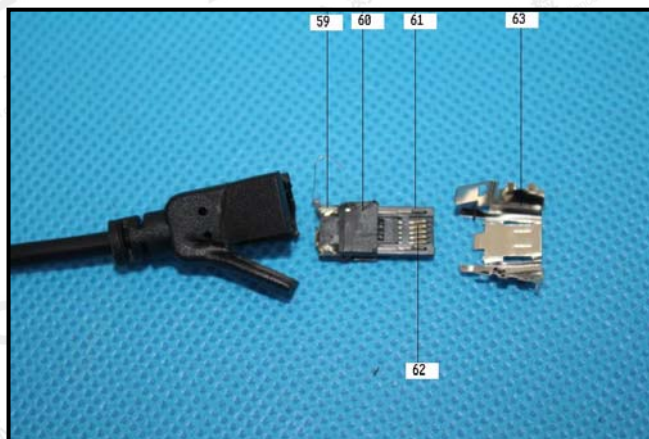
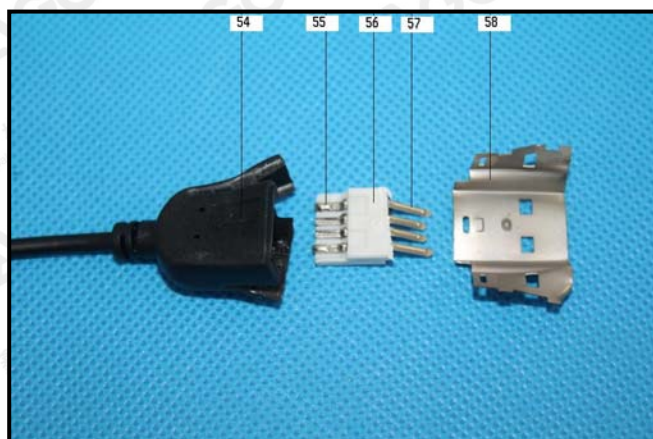
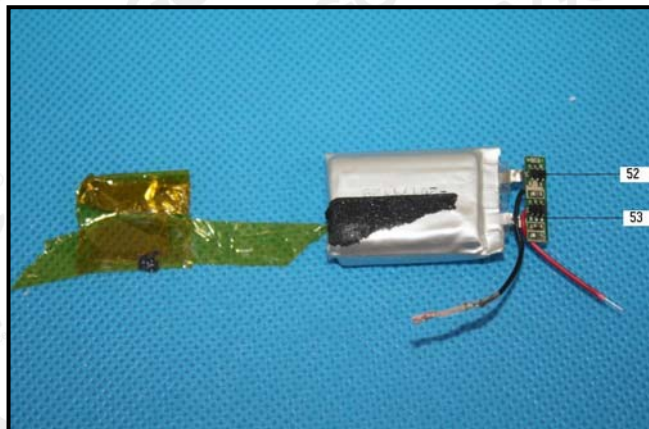
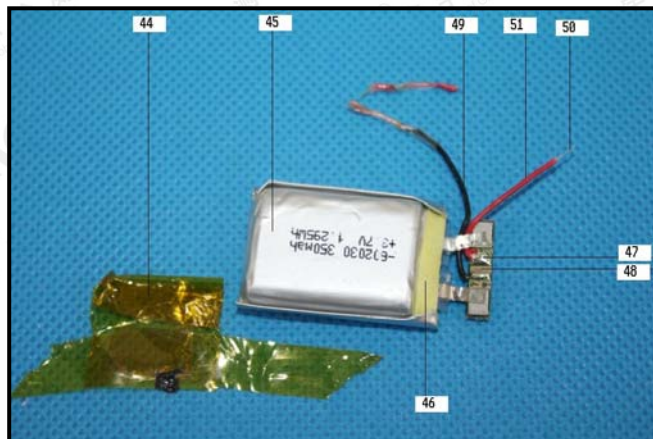
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