



Test Report

Report No. : UNIB19052904HR-01

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Applicant :

Address :

Name of sample : Bluetooth Headphone

Receiving Date : 2019.05.29

Test Date : 2019.05.29-2019.06.03

Test Location : Guangzhou Chemistry Laboratory

Test Method : Please refer to "Test Results"

Testing Item : Please refer to next page(s)

Decision Rule : RoHS Directive 2011/65/EU and Amendment (EU)2015/863.

Conclusion : Pass

Signed for and on behalf of
Shenzhen United Testing Technology Co.,Ltd

Huang Yong

Huang Yong
Approved Signatory

2019.06.17

Signatory Date



深圳市代耐检测技术有限公司
Shenzhen United Testing Technology Co.,Ltd.

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1、Sample information

For samples, the information provided by the applicant is as follows:

Product Model :
Sample Quantity : 2pcs
Manufacturer :

2、Conclusion

The sample was detected and according to the detection results, the conclusion are as follows:

Test item	Decision Rule	Conclusion
Pb、Cd、Hg、Cr (VI)、PBBs、PBDEs、DEHP、DBP、BBP、DIBP	RoHS Directive 2011/65/EU and Amendment (EU)2015/863	Pass

3、Sample Split

The sample is split according to IEC 62321-2:2013.

No.	Description	Material
No.1	Black screw	Metal
No.2	Black plastic shell	Polymer
No.3	White label	Polymer
No.4	White foam	Polymer
No.5	Black wire	Polymer
No.6	Color wire core	Metal
No.7	Silver grey metal strip	Metal
No.8	Black plastic ring	Polymer
No.9	White film	Polymer
No.10	White foam	Polymer
No.11	Green PCB (long strip)-Green PCB	Polymer
No.12	Green PCB (long strip)-Black chip resistor	Polymer
No.13	Green PCB (long strip)-Black IC	Polymer
No.14	Green PCB (long strip)-Silver grey solder joint	Metal
No.15	Green PCB (long strip)-Silver grey metal sheet	Metal
No.16	Transparent film	Polymer
No.17	Silver grey metal ring	Metal
No.18	Silver grey magnet	Metal
No.19	Copper coil	Metal
No.20	Green PCB (short strip)-Green PCB	Polymer
No.21	Green PCB (short strip)-Silver grey solder joint	Metal



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No.	Description	Material
No.22	Black rubber	Polymer

Note: This table is used to identify each test part of the Sample. Different descriptions in the "Description" column are only used to distinguish each test part. "Material" column are only gives a simple Description of the material of each test part, which does not mean that this is the result of a material identification.

4、Test Results

4.1 XRF screening

The total amount of lead, cadmium, mercury, chromium and bromine was screened by X-ray fluorescence spectrometer (XRF).

XRF screening technical requirements: Lead, Mercury: $\text{Pass} \leq 700 \text{ mg/kg} - 3\delta < C < 1300 \text{ mg/kg} + 3\delta \leq \text{Fail}$,

Cadmium : $\text{Pass} \leq 70 \text{ mg/kg} - 3\delta < C < 130 \text{ mg/kg} + 3\delta \leq \text{Fail}$, Chromium : $\text{Pass} \leq 700 \text{ mg/kg} - 3\delta < C$, Bromine : $\text{Pass} \leq 250 \text{ mg/kg} - 3\delta < C$. "C"=Indicates that a chemical test is required. Chromium pass meets Hexavalent Chromium standards compliant, Bromine pass means that PBBs and PBDEs are standards compliant.

DEHP、DBP、BBP、DIBP is used for GC-MS quantitative test. According to the requirements of the RoHS Directive, The content of DEHP, DBP, BBP and DIBP $\leq 0.1\%$.

4.1.1 No.1

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.2 No.2

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

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4.1.3 No.3

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.4 No.4

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.5 No.5

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.6 No.6

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

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4.1.7 No.7

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

4.1.8 No.8

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.9 No.9

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.10 No.10

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

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4.1.11 No.11

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.12 No.12

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.13 No.13

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.14 No.14

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

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4.1.15 No.15

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

4.1.16 No.16

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.17 No.17

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

4.1.18 No.18

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

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4.1.19 No.19

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

4.1.20 No.20

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.21 No.21

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	--	--	--	--	--
DEHP	117-81-7	--	--	--	--	--
DBP	84-74-2	--	--	--	--	--
BBP	85-68-7	--	--	--	--	--
DIBP	84-69-5	--	--	--	--	--

4.1.22 No.22

Test item	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead(Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium(Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury(Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium(Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine(Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

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Note:

- 1、1mg/kg = 0.0001%
- 2、ND= Not Detected(<MDL)
- 3、“--”=No Testing or blank or not applicable.
- 4、Polybrominated biphenyls (PBBs) include: Monobromobiphenyl, Dibromobiphenyl, Tribromobiphenyl, Tetrabromobiphenyl, Pentabromobiphenyl, Hexabromobiphenyl, Heptabromobiphenyl, Octabromobiphenyl, Nonabromobiphenyl, Decabromobiphenyl.
- 5、Polybrominated diphenyl ethers (PBDEs) Included: Monobromodiphenyl ether, Dibromodiphenyl ether, Tribromodiphenyl ether, Tetrabromodiphenyl ether, Pentabromodiphenyl ether, Hexabromodiphenyl ether, Heptabromodiphenyl ether, Octabromodiphenyl ether, Nonabromodiphenyl ether, Decabromodiphenyl ether.

5、Sample Photo



The sample picture is only used to inform the applicant that the sample received by the laboratory is shown in the picture, which does not prove the appearance and quality of the applicant's products.

*****End of Report*****

Note: This report must have the signature of the authorized signatory and the special seal of the report, otherwise it will be considered invalid.

This report shall not be modified, added or deleted without authorization. This report is valid only for samples presented in the "Sample Photo".

If there is any objection to the test datas and conclusions of this report, please submit it in writing within 10 working days after the date of issuance of the report.

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