



# Test Report



中国认可  
国际互认  
检测  
TESTING  
CNAS L6964

Report No. : UNIB22080903HR-01

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Applicant : SHENZHEN JIUHU TECHNOLOGY CO.,LTD  
Address : Floor 4, Building E, No.10 HuanGuan South Road, GuanLan JunLong Community,  
ShenZhen  
Name of sample : Wireless Headset  
Receiving Date : Aug. 10, 2022  
Test Date : Aug. 10, 2022-Aug. 15, 2022  
Test Address : No.47-3, Industrial Road, Zhushan, Dalong Street, Panyu District,  
Guangzhou, Guangdong, China  
Test Method(s) : Please refer to“Test Results”  
Testing Item(s) : Pb, Cd, Hg, Cr (VI), PBBs, PBDEs, DEHP, DBP, BBP, DIBP  
Decision Basis : RoHS Directive-2011/65/EU and Amendment (EU) 2015/863  
Conclusion : Pass

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

*Roger Cheng*

Roger Cheng  
Approved Signatory

Oct. 10, 2022

Issue Date



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## 1、 Conclusion

This sample(s) was tested according to applicant requirements. According to the test results, the conclusions are as follows:

Test Item(s)	Testing Standard(s)	Decision Basis	Conclusion
(Pb), (Cd), (Hg), (Cr), (Br)	IEC62321-3-1:2013	RoHS Directive-2011/65/EU and Amendment (EU) 2015/863	Pass
(Hg)	IEC 62321-4:2013 +A1:2017		Pass
(Pb), (Cd)	IEC 62321-5:2013		Pass
(PBBs), (PBDEs)	IEC 62321-6:2015		Pass
Cr (VI)	IEC 62321-7-1:2015 IEC 62321-7-2:2017		Pass
(DEHP), (DBP), (BBP), (DIBP)	IEC 62321-8:2017		Pass

## 2、 Sample information(s)

The following information of sample(s) was/were submitted and identified by applicant:

Product Model : X10S, JH-TWS30

Manufacturer : SHENZHEN JIUHU TECHNOLOGY CO.,LTD

### 3、 Test Part Description

The sample(s) was/were disassembled according to IEC 62321-2:2021.

No.	Description	Material
M001	Silver grey metal (USB)	Metal
M002	White plastic	Polymer
M003	Silver pins	Metal
M004	Black PCB	Composite material
M005	Resonator	Composite material
M006	White LED light	Composite material
M007	Black resistor patch	Composite material
M008	Black IC	Composite material
M009	Brown capacitor patch	Composite material
M010	Black diode	Composite material
M011	Black triode	Composite material
M012	Grey black capacitor patch	Composite material
M013	Black plastic	Polymer
M014	Yellow plastic	Polymer
M015	Silver pins	Metal
M016	Black wire (thick)	Polymer
M017	Black wire (thin)	Polymer
M018	Silver grey wire core	Metal
M019	Green PCB	Composite material
M020	Black plastic buttons	Polymer
M021	Silver grey metal	Metal
M022	Black heat shrink film	Polymer

#### Notes:

1.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.

2.The test articles (parts/material) is specified by the applicant.

## 4、 Test Results

4.1 The method detection limit (MDL, mg/kg) for each element is as follows:

Test Item(s)	(Pb)	(Cd)	(Hg)	(Cr)	(Br)
MDL	10	10	10	10	20

The screening range of XRF for each element in different materials is as follows (mg/kg):

Element	Polymers	Metals	Composite material
(Pb)	$BL \leq (700-3\delta) < X < (1300+3\delta) \leq OL$	$BL \leq (700-3\delta) < X < (1300+3\delta) \leq OL$	$BL \leq (500-3\delta) < X < (1500+3\delta) \leq OL$
(Cd)	$BL \leq (70-3\delta) < X < (130+3\delta) \leq OL$	$BL \leq (70-3\delta) < X < (130+3\delta) \leq OL$	$MDL < X < (150+3\delta) \leq OL$
(Hg)	$BL \leq (700-3\delta) < X < (1300+3\delta) \leq OL$	$BL \leq (700-3\delta) < X < (1300+3\delta) \leq OL$	$BL \leq (500-3\delta) < X < (1500+3\delta) \leq OL$
(Cr)	$BL \leq 700-3\delta < X$	$BL \leq 700-3\delta < X$	$BL \leq 500-3\delta < X$
(Br)	$BL \leq 300-3\delta < X$	--	$BL \leq 250-3\delta < X$

### Notes:

- It is the result on total Br while test on Restricted Substances is PBBs/PBDEs, It is result on total Cr while test item on restricted Substances is Cr(VI).
- Result are obtained by XRF for primary screening, and further chemical testing by ICP(for Cd, Pb, Hg),UV-VIS(for CrVI), and GC-MS(for PBBs, PBDEs) is recommended to be performed, if the concentration Exceeds the below warning value according to IEC 62321(unit: mg/kg).
- BL= Below limit, OL= Over Limit, IN=Inconclusive, LOD=Limit of Detection
- The XRF Screening test for RoHS elements- the reading may be different to the actual content in the Sample be of non-uniformity composition.
- With reference to RoHS Directive 2011/65/EU and Amendment (EU) 2015/863, The limit of Cadmium is 100 ppm, limit of lead is 1000 ppm, limit of Metal mercury 1000 ppm, limit of Hexavalent chromium is 1000 ppm, limit of PBBs are 1000 ppm, limit of PBDEs are 1000 ppm. The limit of DEHP, DBP, BBP and DIBP $\leq$ 1000mg/kg (0.1%).
- " $\delta$ " is the standard deviation of analysis results.
- According to IEC 62321, result on Cr(VI) for metal sample is show as Positive/Negative, Negative= Absence of Cr(VI); Positive= Presence of Cr(VI) .



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Part No.	Test Substance	Results of EDXRF(mg/kg)	Results of Wet Chemical Testing(mg/kg)	MDL(mg/kg)	Verdict
M001	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	Negative	--	Pass
	(PBBs)	--	--	--	NA
	(PBDEs)	--	--	--	NA
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	--	--	NA
	Benzylbutyl Phthalate (BBP)	--	--	--	NA
	Dibutyl Phthalate (DBP)	--	--	--	NA
	Diisobutyl phthalate (DIBP)	--	--	--	NA
M002	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	ND	--	20	Pass
	(PBDEs)	ND	--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	ND	50	Pass
	Benzylbutyl Phthalate (BBP)	--	ND	50	Pass
	Dibutyl Phthalate (DBP)	--	ND	50	Pass
	Diisobutyl phthalate (DIBP)	--	ND	50	Pass

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M003	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	Negative	--	Pass
	(PBBs)	--	--	--	NA
	(PBDEs)	--	--	--	NA
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	--	--	NA
	Benzylbutyl Phthalate (BBP)	--	--	--	NA
	Dibutyl Phthalate (DBP)	--	--	--	NA
	Diisobutyl phthalate (DIBP)	--	--	--	NA
M004	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	ND	--	20	Pass
	(PBDEs)	ND	--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	ND	50	Pass
	Benzylbutyl Phthalate (BBP)	--	ND	50	Pass
	Dibutyl Phthalate (DBP)	--	ND	50	Pass
	Diisobutyl phthalate (DIBP)	--	ND	50	Pass

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Part No.	Test Substance	Results of EDXRF(mg/kg)	Results of Wet Chemical Testing(mg/kg)	MDL(mg/kg)	Verdict
M005	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	ND	--	20	Pass
	(PBDEs)	ND	--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	75	50	Pass
	Benzylbutyl Phthalate (BBP)	--	75	50	Pass
	Dibutyl Phthalate (DBP)	--	ND	50	Pass
M006	Diisobutyl phthalate (DIBP)	--	ND	50	Pass
	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	ND	--	20	Pass
	(PBDEs)	ND	--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	ND	50	Pass
	Benzylbutyl Phthalate (BBP)	--	126	50	Pass
Dibutyl Phthalate (DBP)	--	ND	50	Pass	
Diisobutyl phthalate (DIBP)	--	ND	50	Pass	

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

SZ: 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China.  
深圳市宝安区西乡街道铁岗社区宝田一路365号嘉皇源科技园附楼2楼(P.C.518102) Tel:+86-755-86180996 Fax:+86-755-86180156  
GZ: #47-3, Industrial Road, Zhushan Village, Dalong Street, Panyu District, Guangzhou, China.  
广州市番禺区大龙街竹山村工业路 47-3 (P.C. 511450) Tel:+86-20-39277769 Fax:+86-755-86180156

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Part No.	Test Substance	Results of EDXRF(mg/kg)	Results of Wet Chemical Testing(mg/kg)	MDL(mg/kg)	Verdict
M007	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	ND	--	20	Pass
	(PBDEs)	ND	--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	ND	50	Pass
	Benzylbutyl Phthalate (BBP)	--	105	50	Pass
	Dibutyl Phthalate (DBP)	--	ND	50	Pass
Diisobutyl phthalate (DIBP)	--	ND	50	Pass	
M008	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	ND	--	20	Pass
	(PBDEs)	ND	--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	ND	50	Pass
	Benzylbutyl Phthalate (BBP)	--	ND	50	Pass
	Dibutyl Phthalate (DBP)	--	ND	50	Pass
Diisobutyl phthalate (DIBP)	--	ND	50	Pass	

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Part No.	Test Substance	Results of EDXRF(mg/kg)	Results of Wet Chemical Testing(mg/kg)	MDL(mg/kg)	Verdict
M009	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	ND	--	20	Pass
	(PBDEs)	ND	--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	ND	50	Pass
	Benzylbutyl Phthalate (BBP)	--	ND	50	Pass
	Dibutyl Phthalate (DBP)	--	ND	50	Pass
M010	Diisobutyl phthalate (DIBP)	--	ND	50	Pass
	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	ND	--	20	Pass
	(PBDEs)	ND	--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	103	50	Pass
	Benzylbutyl Phthalate (BBP)	--	107	50	Pass
Dibutyl Phthalate (DBP)	--	ND	50	Pass	
Diisobutyl phthalate (DIBP)	--	ND	50	Pass	

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Part No.	Test Substance	Results of EDXRF(mg/kg)	Results of Wet Chemical Testing(mg/kg)	MDL(mg/kg)	Verdict
M011	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	ND	--	20	Pass
	(PBDEs)	ND	--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	94	50	Pass
	Benzylbutyl Phthalate (BBP)	--	98	50	Pass
	Dibutyl Phthalate (DBP)	--	ND	50	Pass
M012	Diisobutyl phthalate (DIBP)	--	ND	50	Pass
	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	ND	--	20	Pass
	(PBDEs)	ND	--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	ND	50	Pass
	Benzylbutyl Phthalate (BBP)	--	ND	50	Pass
Dibutyl Phthalate (DBP)	--	ND	50	Pass	
Diisobutyl phthalate (DIBP)	--	ND	50	Pass	

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Part No.	Test Substance	Results of EDXRF(mg/kg)	Results of Wet Chemical Testing(mg/kg)	MDL(mg/kg)	Verdict
M013	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	321	--	20	Pass
	(PBDEs)		--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	141	50	Pass
	Benzylbutyl Phthalate (BBP)	--	128	50	Pass
	Dibutyl Phthalate (DBP)	--	ND	50	Pass
	Diisobutyl phthalate (DIBP)	--	ND	50	Pass
M014	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	4.0×10 <sup>4</sup>	ND	20	Pass
	(PBDEs)		ND	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	112	50	Pass
	Benzylbutyl Phthalate (BBP)	--	116	50	Pass
	Dibutyl Phthalate (DBP)	--	ND	50	Pass
	Diisobutyl phthalate (DIBP)	--	ND	50	Pass

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Part No.	Test Substance	Results of EDXRF(mg/kg)	Results of Wet Chemical Testing(mg/kg)	MDL(mg/kg)	Verdict
M015	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	Negative	--	Pass
	(PBBs)	--	--	--	NA
	(PBDEs)	--	--	--	NA
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	--	--	NA
	Benzylbutyl Phthalate (BBP)	--	--	--	NA
	Dibutyl Phthalate (DBP)	--	--	--	NA
	Diisobutyl phthalate (DIBP)	--	--	--	NA
M016	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	3.7×10 <sup>3</sup>	ND	20	Pass
	(PBDEs)		ND	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	295	50	Pass
	Benzylbutyl Phthalate (BBP)	--	ND	50	Pass
	Dibutyl Phthalate (DBP)	--	ND	50	Pass
	Diisobutyl phthalate (DIBP)	--	70	50	Pass

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Part No.	Test Substance	Results of EDXRF(mg/kg)	Results of Wet Chemical Testing(mg/kg)	MDL(mg/kg)	Verdict
M017	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	1.8×10 <sup>4</sup>	ND	20	Pass
	(PBDEs)		ND	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	ND	50	Pass
	Benzylbutyl Phthalate (BBP)	--	ND	50	Pass
	Dibutyl Phthalate (DBP)	--	ND	50	Pass
	Diisobutyl phthalate (DIBP)	--	ND	50	Pass
M018	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	Negative	--	Pass
	(PBBs)	--	--	--	NA
	(PBDEs)	--	--	--	NA
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	--	--	NA
	Benzylbutyl Phthalate (BBP)	--	--	--	NA
	Dibutyl Phthalate (DBP)	--	--	--	NA
	Diisobutyl phthalate (DIBP)	--	--	--	NA

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M019	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	ND	--	20	Pass
	(PBDEs)	ND	--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	115	50	Pass
	Benzylbutyl Phthalate (BBP)	--	ND	50	Pass
	Dibutyl Phthalate (DBP)	--	ND	50	Pass
M020	Diisobutyl phthalate (DIBP)	--	ND	50	Pass
	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	559	--	20	Pass
	(PBDEs)		--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	120	50	Pass
	Benzylbutyl Phthalate (BBP)	--	94	50	Pass
Dibutyl Phthalate (DBP)	--	ND	50	Pass	
Diisobutyl phthalate (DIBP)	--	ND	50	Pass	

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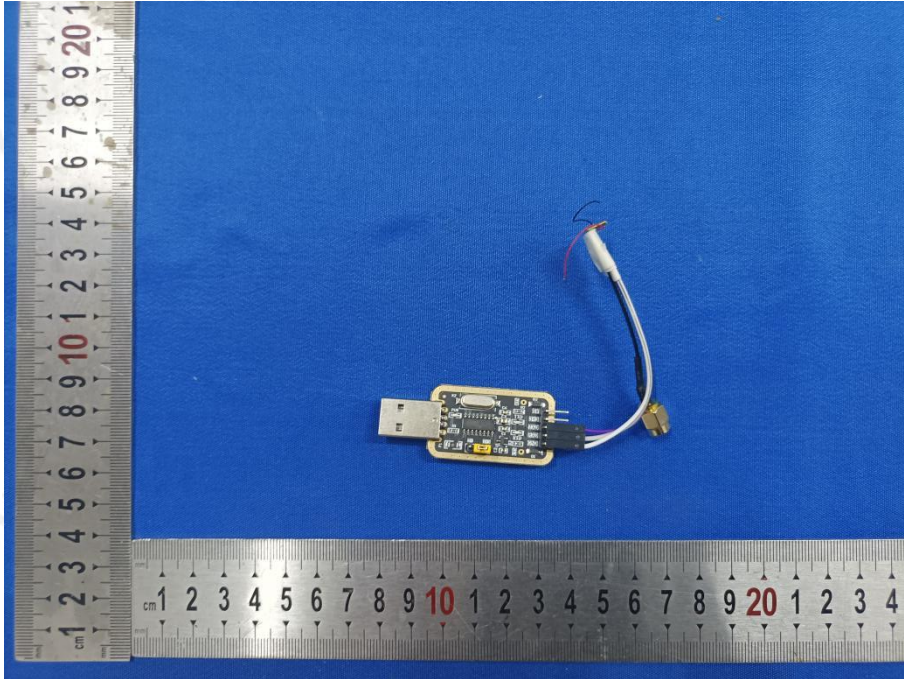
Part No.	Test Substance	Results of EDXRF(mg/kg)	Results of Wet Chemical Testing(mg/kg)	MDL(mg/kg)	Verdict
M021	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	Negative	--	Pass
	(PBBs)	--	--	--	NA
	(PBDEs)	--	--	--	NA
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	--	--	NA
	Benzylbutyl Phthalate (BBP)	--	--	--	NA
	Dibutyl Phthalate (DBP)	--	--	--	NA
	Diisobutyl phthalate (DIBP)	--	--	--	NA
M022	(Cd)	ND	--	10	Pass
	(Pb)	ND	--	10	Pass
	(Hg)	ND	--	10	Pass
	(Cr <sup>6+</sup> )	ND	--	10	Pass
	(PBBs)	ND	--	20	Pass
	(PBDEs)	ND	--	20	Pass
	Di-(2-ethylhexyl) Phthalate (DEHP)	--	210	50	Pass
	Benzylbutyl Phthalate (BBP)	--	165	50	Pass
	Dibutyl Phthalate (DBP)	--	95	50	Pass
	Diisobutyl phthalate (DIBP)	--	ND	50	Pass

## Remarks:

- 1) 1mg/kg = 0.0001%
- 2) ND= Not Detected(<MDL)
- 3) "--" =No Testing or blank.
- 4) NA= Not Applicable

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## 5、 Sample Photo(s)



Sample pictures are only used to inform the applicant that the samples received and tested in our laboratory are shown in the picture, and do not prove the appearance and quality of the applicant's products.

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



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SZ: 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China.

深圳市宝安区西乡街道铁岗社区宝田一路365号嘉皇源科技园附楼2楼(P.C.518102) Tel:+86-755-86180996 Fax:+86-755-86180156

GZ: #47-3, Industrial Road, Zhushan Village, Dalong Street, Panyu District, Guangzhou, China.

广州市番禺区大龙街竹山村工业路 47-3 (P.C. 511450) Tel:+86-20-39277769 Fax:+86-755-86180156