



**BUREAU
VERITAS**

TEST REPORT

测试报告

LAB NO. 报告编号 : (8818)058-0002
DATE 完成日期 : Mar 5, 2018
PAGE 页码 : 1 OF 6

APPLICANT
申请公司名称 : **SHENZHEN UNIGREAT TECHNOLOGY CO.LTD**
深圳市嘉宇顺科技有限公司
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PARK,SHIYAN,SHUITIAN,BAOAN DISTRICT, SHENZHEN
深圳市宝安区石岩镇水田石龙仔石环路10号

DATE OF SUBMISSION
样品收取日期 : FEB 26, 2018
2018年2月26日

TEST PERIOD
测试周期 : FEB 26, 2018 TO MAR 5, 2018
2018年2月26日至2018年3月5日

SAMPLE DESCRIPTION
样品描述 : 金属端子

Sample Size : 样品数量 1

BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

Harvey Xue
Manager, Analytical Lab

RT/NL/LL

REMARK

If there are questions or concerns on this report, please contact the following persons:

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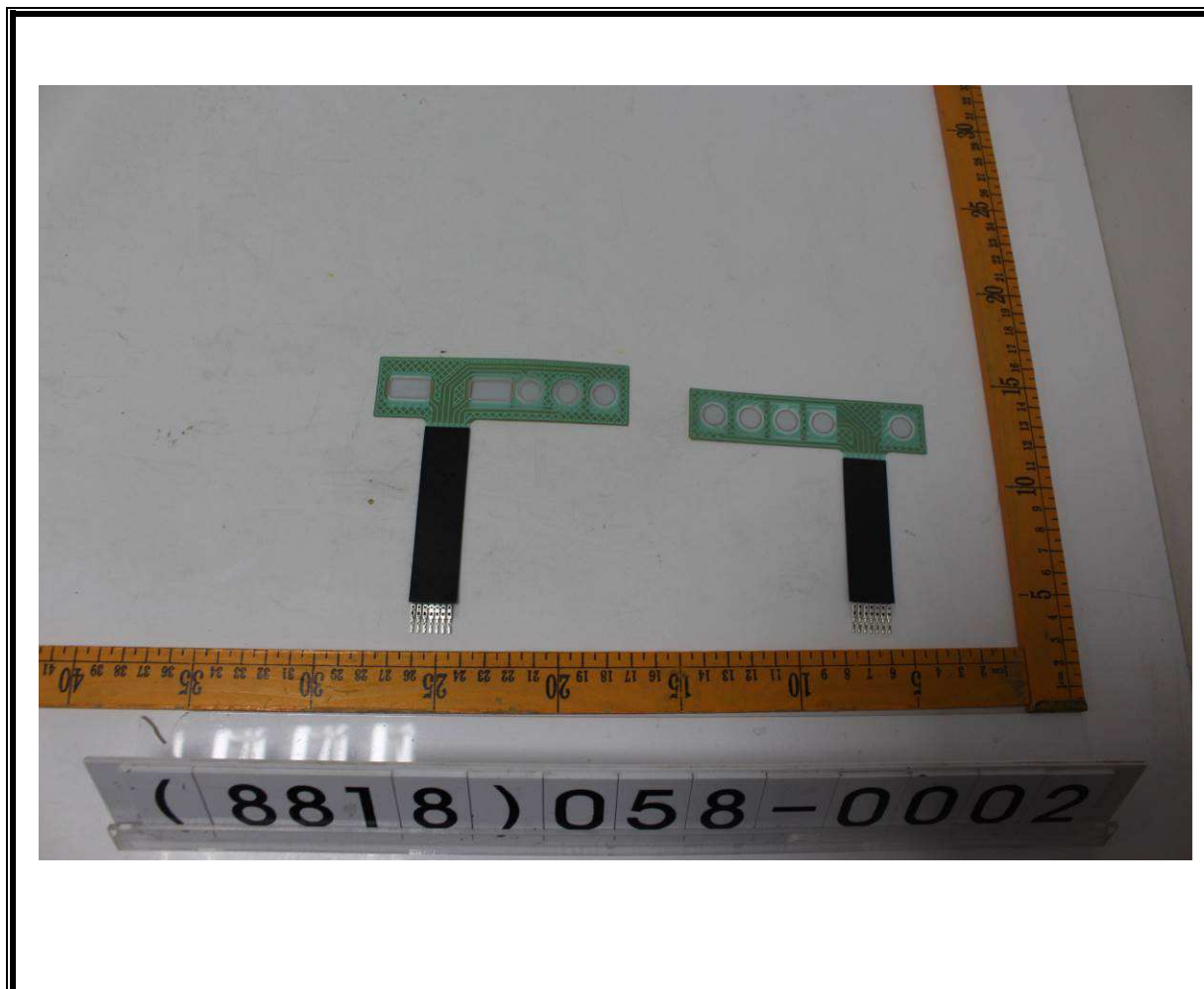
SUMMARY OF TEST RESULTS

测试结果摘要

TEST REQUESTED 测试项目	CONCLUSION 结论	REMARK 备注
Heavy Metals Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)on Certain Component 重金属 - 有关欧盟委员会针对电子产品的指令(电子电器禁用某些有害物质指令), 2011/65/EU	PASS 通过	-

Photo of the Submitted Sample

递交样品照片





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TEST RESULT

测试结果

Heavy Metals Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

重金属 - 有关欧盟委员会针对电子产品的指令(电子电器禁用某些有害物质指令), 2011/65/EU

Test Method : See Appendix I.
测试方法 : 见附录

Test Item(s) 测试项目	Item / Component Description(s) 项目 / 部件描述	Location(s) 位置	Style(s) 款式
I001	Silvery plated copper metal 银色镀铜色金属	Top 端子	-

See Analytes (Parameter) and their corresponding Maximum Allowable Limit (Req.) in Result Table 分析物 (参数) 及其对应的最大允许限 (要求) - 见结果表	Type I 类 I	Metallic material 金属材料
	Type II 类 II	Glass or ceramic material 玻璃或陶瓷材料
	Type III 类 III	Other non-metallic material except Type II 其他非金属材料, 类 II 材料除外

-	Unit 单位	Req. 要求	Result 结果
Test Item(s) 测试项目	-	-	I001
Type 类型	-	I	I
Parameter 参数	-	-	-
Lead (Pb) 铅	mg/kg	1000	34
Cadmium (Cd) 镉	mg/kg	100	ND
Mercury (Hg) 汞	mg/kg	1000	ND
Chromium VI (Cr VI) 六价铬	mg/kg	Negative 阴性	Negative* 阴性*
Conclusion 结论	-	-	PASS 通过



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Note / key:

ND = Not detected 未检出 “>” = Greater than 大于 Req. = Requirement 要求
NR = Not requested 未要求 mg/kg = milligram(s) per kilogram毫克每千克= ppm = part(s) per million
NA = Not Applicable 10000 mg/kg = 1 % % = percent百分率
Detection Limit检出限 (mg/kg) :
For Type I - Each (Pb, Cd & Hg) 10
类 I - 各 (铅, 镉和汞) 10
For Type II - Each (Pb, Cd, Hg & Cr VI) 10
类 II - 各 (铅, 镉, 汞和六价铬) 10
For Type III- Polymers & Electronics - Each (Pb, Cd, Hg & Cr VI): 10; Each (PBBs & PBDEs): 50
Others - Each (Pb, Cd & Hg): 10; Cr VI: 3.0; Each (PBBs & PBDEs): 50
类 III -聚合物及电子产品 - 各 (铅, 镉, 汞和六价铬): 10; 各 (多溴联苯和多溴联苯醚): 50
其他材料 - 各 (铅, 镉和汞): 10; 六价铬: 3.0; 各 (多溴联苯和多溴联苯醚): 50

Remark:

- The list of analytes is summarized in table of Appendix I.
分析物列表 – 见附录。
 - * Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1).
* 金属材料的六价铬结果以阴性和阳性表示。阴性表示六价铬未被检出在测试表面，即结果被认为符合 2011/65/EU 指令中，条款 4(1) 的要求。而阳性则表示六价铬存在在测试表面，即不符合 2011/65/EU 指令中，条款 4(1)的要求。
 - According to European Council Directive 2011/65/EU, Article 5 “Adaptation of the Annexes to scientific and technical progress”, exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
根据欧盟委员会 2011/65/EU 指令中，条款 5 “适应科学技术进步的附件”，附件 III 和 IV 中列明的测试项目中的材料和部件可予以豁免。
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APPENDIX I 附录I

List of Analytes and their Corresponding Test Methods [European Council Directive 2011/65/EU] : 分析物名单及其相应的测试方法 [欧盟委员会指令 2011/65/EU]:		
No.	Name of Analytes 分析物名称	Test Method(s) 测试方法
1	Lead (Pb) 铅	With reference to International Standard IEC 62321-5: 2013.
2	Cadmium (Cd) 镉	参照国际标准 IEC 62321-5: 2013.
3	Mercury (Hg) 汞	With reference to International Standard IEC 62321-4: 2013. 参照国际标准 IEC 62321-4: 2013.
4	Chromium VI (Cr VI) 六价铬	<u>Metal 金属:</u> With reference to International Standard IEC 62321-7-1: 2015. 参照国际标准 IEC 62321-7-1: 2015. <u>Polymers and Electronics 聚合物及电子产品:</u> With reference to European Standard EN 62321: 2009, Annex C. 参照 EN 62321: 2009, 附录 C. <u>Leather 皮革:</u> International Standard ISO 17075-1:2017 国际标准 ISO 17075-1:2017 <u>Other than Metal, Leather, Polymers and Electronics 其他非金属, 皮革, 聚合物及电子产品材料:</u> With reference to International Standard ISO 17075-1:2017 参照国际标准 ISO 17075-1:2017
5	Polybromobiphenyls (PBBs) 多溴联苯 - Bromobiphenyl (MonoBB) 一溴联苯 - Dibromobiphenyl (DiBB) 二溴联苯 - Tribromobiphenyl (TriBB) 三溴联苯 - Tetrabromobiphenyl (TetraBB) 四溴联苯 - Pentabromobiphenyl (PentaBB) 五溴联苯 - Hexabromobiphenyl (HexaBB) 六溴联苯 - Heptabromobiphenyl (HeptaBB) 七溴联苯 - Octabromobiphenyl (OctaBB) 八溴联苯 - Nonabromobiphenyl (NonaBB) 九溴联苯 - Decabromobiphenyl (DecaBB) 十溴联苯	With reference to International Standard IEC 62321-6: 2015. 参照国际标准 IEC 62321-6: 2015.
6	Polybromodiphenyl ethers (PBDEs) 多溴联苯醚 - Bromodiphenyl ether (MonoBDE) 一溴联苯醚 - Dibromodiphenyl ether (DiBDE) 二溴联苯醚 - Tribromodiphenyl ether (TriBDE) 三溴联苯醚 - Tetrabromodiphenyl ether (TetraBDE) 四溴联苯醚 - Pentabromodiphenyl ether (PentaBDE) 五溴联苯醚 - Hexabromodiphenyl ether (HexaBDE) 六溴联苯醚 - Heptabromodiphenyl ether (HeptaBDE) 七溴联苯醚 - Octabromodiphenyl ether (OctaBDE) 八溴联苯醚 - Nonabromodiphenyl ether (NonaBDE) 九溴联苯醚 - Decabromodiphenyl ether (DecaBDE) 十溴联苯醚	With reference to International Standard IEC 62321-6: 2015. 参照国际标准 IEC 62321-6: 2015.
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples. 该方法的原理是在由 IEC TC111 WG3 组织的两次研究中得到了充分评估并获得了认可。这些研究侧重于对金属样品上防腐涂层中六价铬的存在的检测(定性测试)。	