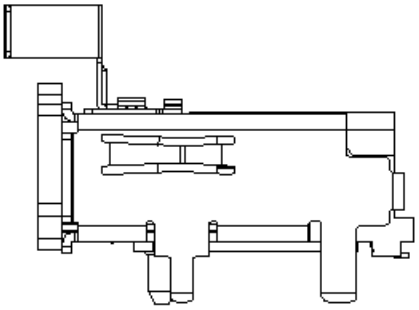
# 东莞市广业电子有限公司

# Dongguan Vast Electronics Co.,Ltd

## Approval Sheet

| | | |
|---|---|---|
| 客户<br>Customer | 钰纬科技 |  |
| 客户料号<br>Customer PN | / | |
| 广业料号<br>Vast PN | 109010922 | |
| 品名<br>Description | DISPLAYPORT RECEPTACLE SMT TYPE,WITH SPRING | |
| 日期<br>Date | 2024-06-07 | |

**Approval**

| | | | |
|---|---|---|---|
| CUSTOMER | Prepare | Review | Approval |
| | | | |
| VAST | Prepare | Review | Approval |
| | WangLisi | / | DengXikun |

**Company:东莞市广业电子有限公司(Dongguan Vast Electronics Co.,Ltd)**

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**TEL: 0769-38933333 FAX:0769-38932500**

**Http://www.vast.hk**

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廣業電子 VAST ELECTRONICS

# 文件制定&修改履历表

| 版本 | 日期 | 制定/修改/废止内容 | 制定 | 核准 |
|---|---|---|---|---|
| A0 | 2024/6/7 | 首次承认 | 王丽思 | 邓喜坤 |
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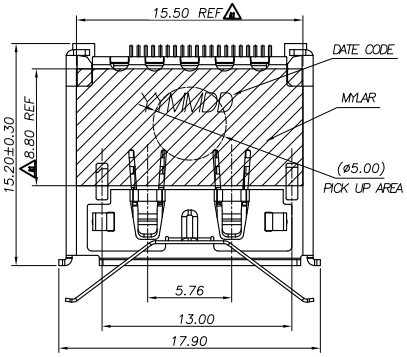
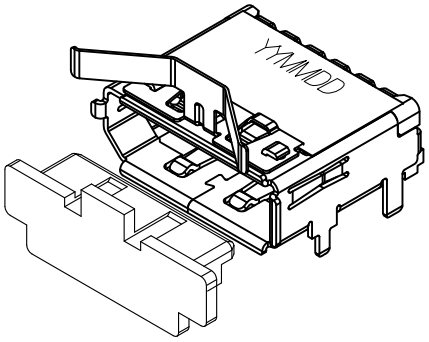
CLASS: ☐CONFIDENTIAL ■SECRET ☐GENERAL

RoHS H F

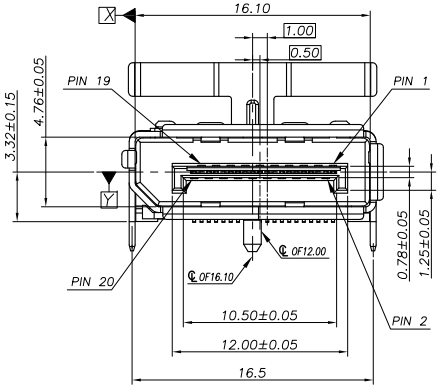
| REV. | ECN No. | DESCRIPTION | DATE | DRAWN | CHECKED | APPROVED |
|---|---|---|---|---|---|---|
| A0 | ECN-220362 | NEW RELEASE | 2022.4.29 | Yilong-Z | Liliang | Ben |
| A1 | ECN-220914 | Change the packaging spec. | 2022.10.12 | LIANGJING | Liliang | Ben |
| A2 | ECN-230024 | ADD CAP SIZE | 2023.01.04 | HZZ | DENGXIKUN | Nalson |

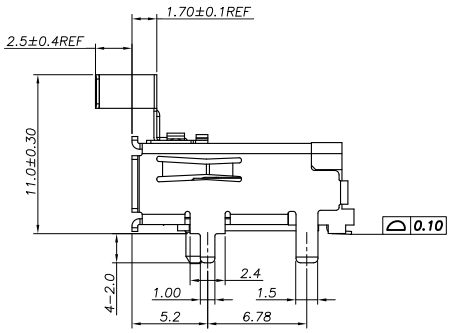


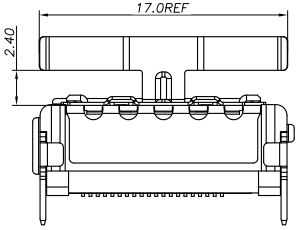



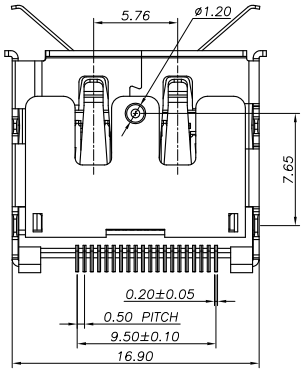

ISO-View
WITH CAP

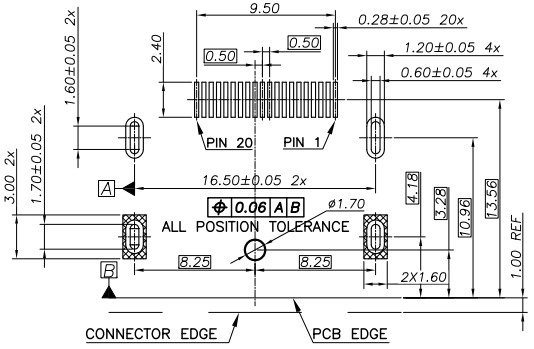
NOTE:
1. MATERIAL:
   PLASTIC: HIGH TEMPERATURE PLASTIC, UL94V-0, COLOR:BLACK
   CONTACT: COPPER ALLOY GOLD FLASH PLATING ON CONTACT AREA
   & MATTE TIN PLATING ON SOLDER AREA
   SHELL: BRASS WITH NICKEL PLATED OVERALL
   SPRING:STAINLESS STEEL.
   MYLAR:POLYESTER FILM.
2. MECHANICAL
   INSERTION FORCE: 4.5kgf Max.
   WITHDRAWAL FORCE:1KG Min.
3. ELECTRICAL:
   CONTACT CURRENT RATING: 0.5A MIN.
   WITHSTANDING VOLTAGE: 500 VAC FOR 1 MINUTE.
   INSULATION RESISTANCE: 100 MEGAOHMS MIN.
   CONTACT RESISTANCE: 30 MILLIOHMS MAX. )
4. ENVIRONMENTAL
   OPERATING TEMPERATURE:-25° C TO +85° C
5. PART No. INFORMATION



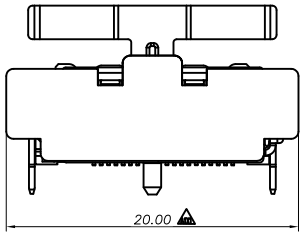



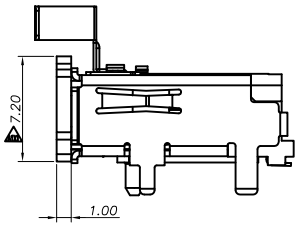




RECOMMENDED P.C.B. LAYOUT(THICKNESS=1.60mm)
TOLERANCE UNSPECIFIED ±0.05mm
STAND OFF AREA




| MILLIMETERS | INCH |
|---|---|
| X.°± 2° | X.°± |
| .X± 0.30 | .X± |
| .XX± 0.20 | .XX± |
| .XXX± 0.10 | .XXX± |

UNITS: mm
MAT'L: SEE NOTES
FINISH: SEE NOTES
QTY:

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Dongguan Vast Electronics Co., Ltd

| | |
|---|---|
| PART No.: 109010922 | TITLE: DISPLAYPORT RECEPTACLE SMT TYPE,WITH SPRING |
| APPD: Nalson | DWG NO.: C-109010922-00 |
| CHKD: dengxikun | SCALE: 2:1 / SHEET: 1/2 / REV.: A2 |
| DR: hzz | |

# Dongguan Vast Electronics Co.,Ltd

## Construction & Dimension Test report

A/0 No.: 1 of 1

Product Name:DP Model specifications: 109010922 The number of samples: 5

Acceptance time: ■New mode ☐ Design changes ☐ Repair mode ☐ Product testing

| Serial number | Sample No. / Serial number / Specifications(mm) | 1 | 2 | 3 | 4 | 5 | | Measurement Tools | Test results |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 15.50±0.20 | 15.539 | 15.497 | 15.482 | 15.513 | 15.520 | | B | OK |
| 2 | 15.20±0.30 | 15.186 | 15.176 | 15.215 | 15.191 | 15.225 | | B | OK |
| 3 | 8.80±0.20 | 8.843 | 8.824 | 8.782 | 8.778 | 8.815 | | B | OK |
| 4 | 5.76±0.20 | 5.749 | 5.751 | 5.745 | 5.766 | 5.779 | | B | OK |
| 5 | 13.00±0.20 | 13.045 | 13.025 | 13.020 | 12.989 | 12.974 | | B | OK |
| 6 | 17.90±0.20 | 17.852 | 17.883 | 17.892 | 17.922 | 17.915 | | B | OK |
| 7 | 16.10±0.20 | 16.084 | 16.078 | 16.116 | 16.098 | 16.081 | | B | OK |
| 8 | 3.32±0.15 | 3.335 | 3.327 | 3.318 | 3.334 | 3.326 | | B | OK |
| 9 | 4.76±0.05 | 4.736 | 4.759 | 4.748 | 4.774 | 4.764 | | B | OK |
| 10 | 10.50±0.05 | 10.523 | 10.516 | 10.483 | 10.509 | 10.492 | | B | OK |
| 11 | 12.00±0.05 | 12.019 | 12.023 | 11.992 | 11.985 | 12.012 | | B | OK |
| 12 | 16.5±0.30 | 16.497 | 16.513 | 16.485 | 16.518 | 16.527 | | B | OK |
| 13 | 0.78±0.05 | 0.801 | 0.775 | 0.769 | 0.793 | 0.798 | | B | OK |
| 14 | 1.25±0.05 | 1.274 | 1.247 | 1.236 | 1.267 | 1.259 | | B | OK |
| 15 | 5.76±0.20 | 5.742 | 5.751 | 5.775 | 5.746 | 5.764 | | B | OK |
| 16 | Φ1.20±0.20 | 1.228 | 1.216 | 1.244 | 1.237 | 1.240 | | B | OK |
| 17 | 0.20±0.05 | 0.216 | 0.186 | 0.197 | 0.224 | 0.218 | | B | OK |
| 18 | 0.50±0.20 | 0.525 | 0.523 | 0.528 | 0.530 | 0.521 | | B | OK |
| 19 | 9.50±0.10 | 9.463 | 9.481 | 9.511 | 9.479 | 9.523 | | B | OK |
| 20 | 16.90±0.20 | 16.925 | 16.938 | 16.881 | 16.919 | 16.895 | | B | OK |
| 21 | 7.65±0.20 | 7.674 | 7.662 | 7.642 | 7.675 | 7.648 | | B | OK |
| 22 | 1.70±0.10 | 1.677 | 1.683 | 1.724 | 1.693 | 1.715 | | B | OK |
| 23 | 2.5±0.40 | 2.539 | 2.494 | 2.522 | 2.513 | 2.482 | | B | OK |
| 24 | 11.0±0.30 | 11.042 | 11.016 | 11.025 | 10.982 | 10.971 | | B | OK |
| 25 | 2.0±0.30 | 2.031 | 2.023 | 2.016 | 2.032 | 2.013 | | B | OK |
| 26 | 1.00±0.20 | 1.024 | 1.017 | 1.023 | 1.011 | 1.020 | | B | OK |
| 27 | 5.2±0.30 | 5.186 | 5.231 | 5.213 | 5.192 | 5.226 | | B | OK |
| 28 | 6.78±0.20 | 6.803 | 6.772 | 6.788 | 6.768 | 6.792 | | B | OK |
| 29 | 1.5±0.30 | 1.488 | 1.514 | 1.494 | 1.519 | 1.522 | | B | OK |
| 30 | 2.4±0.30 | 2.427 | 2.395 | 2.387 | 2.423 | 2.416 | | B | OK |
| 31 | 0.10Max | 0.028 | 0.034 | 0.029 | 0.042 | 0.035 | | B | OK |
| 32 | 17.0±0.30 | 17.059 | 17.041 | 17.018 | 16.982 | 16.998 | | B | OK |
| 33 | 2.40±0.20 | 2.374 | 2.379 | 2.425 | 2.417 | 2.435 | | B | OK |
| 34 | 20.00±0.20 | 20.020 | 20.012 | 20.019 | 20.024 | 20.031 | | B | OK |
| 35 | 7.20±0.20 | 7.176 | 7.226 | 7.195 | 7.189 | 7.213 | | B | OK |
| 36 | 1.00±0.20 | 1.033 | 1.022 | 1.009 | 1.027 | 1.012 | | B | OK |

Instrument code: A : projector (投影机) B : secondary element (二次元)
C: vernier caliper (游标)

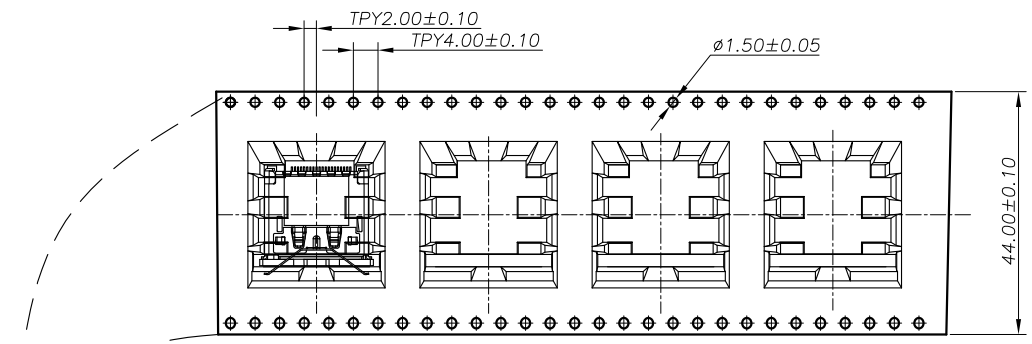
Remarks:

Test:WangLisi Check:DengXikun

CLASS: ☐CONFIDENTIAL ■SECRET ☐GENERAL

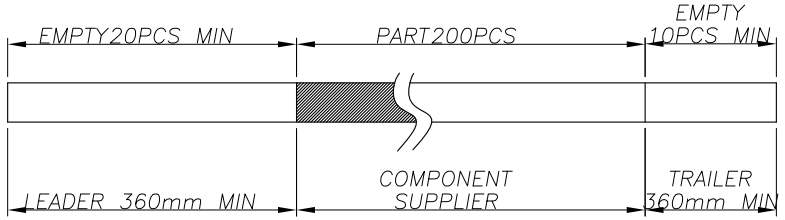
RoHS H F

User Direction of Unreeling




NOTES

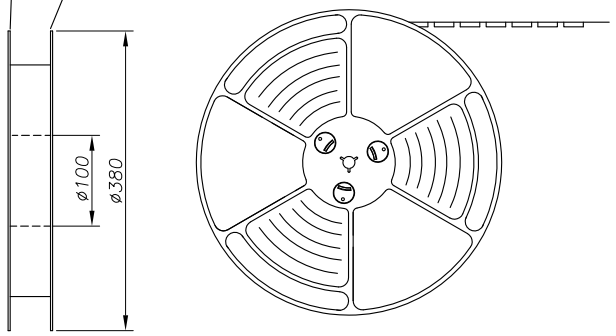
1. NUMBER OF ONNECTORS:200PCS/REEL
2. LEAD TAPE LENGTH

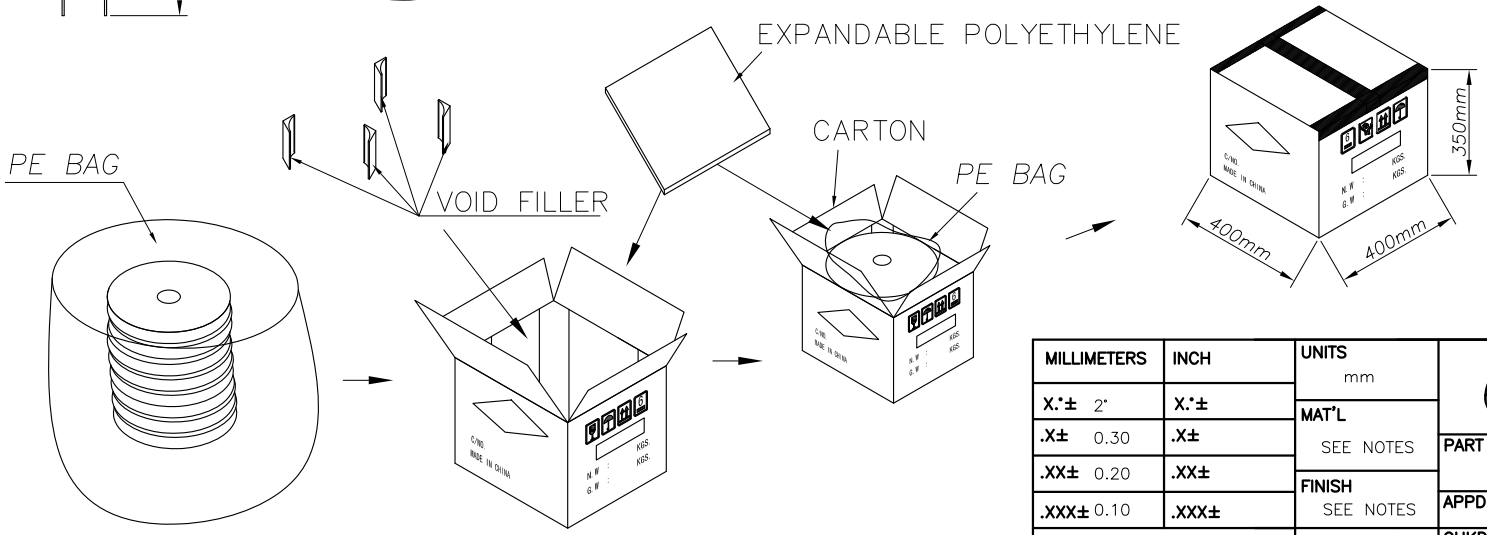



A1 3.QUANTITY:1200/CARTON

4. WEIGHT :
   - 3.1 NET WEIGHT : 3.8Kg
   - 3.2 GROSS WEIGHT : 7.82 Kg

User Direction of Unreeling




| MILLIMETERS | INCH |
|---|---|
| X.°± 2° | X.°± |
| .X± 0.30 | .X± |
| .XX± 0.20 | .XX± |
| .XXX± 0.10 | .XXX± |

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| UNITS | mm |
| MAT'L | SEE NOTES |
| FINISH | SEE NOTES |
| QTY | |

Dongguan Vast Electronics Co., Ltd

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|---|---|
| PART No.: | 109010922 |
| TITLE: | DISPLAYPORT RECEPTACLE SMT TYPE,WITH SPRING |
| APPD: | Nalson |
| DWG NO.: | C-109010922-00 |
| CHKD: | dengxikun |
| DR: | hzz |

| SCALE | SHEET | REV. |
|---|---|---|
| 1:1 | 2/2 | A2 |

## 1.SCOPE (范围)

### 1.1. CONTENTS(内容)

This specification covers the performance, tests and quality requirements for the Display port plug and receptacle connector. These connectors are cable mounted plug and printed circuit board mounted receptacle connectors.（此份产品规格适用于广业电子 Display port 连接器公端及母端的产品功能，测试方法及质量要求,这些连接器包括线端公头及线路板上的母头）

### 1.2. QUALIFICATION（条件）

When tests are performed on the subject product line, the procedures specified specifications shall be used.All inspections shall be performed using the applicable inspection plan and product drawing（当生产线测试产品时，应该使用标准规格，所有的检验应按照检验计划及产品图面执行）

## 2. APPLICABLE DOCUMENT (参考文献)

The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the latest edition of the document applies. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.（下面文件详细说明产品规格，除非有其它要求，应使用最新版本的文件，如果在产品规格书和产品图面不相符时，应优先选择产品图面，当产品规格书要求和参考文件不相符时，应优先选择产品规格书）

## 3. REQUIREMENTS (要求)3.1 DESIGN AND CONSTRUCTION(设计和结构)

Product shall be of the design, construction and physical dimensions specified on the applicable product drawing. (产品的设计，结构及尺寸应符合产品图面)

### 3.1RATING（额定条件）

Current: 0.5A (额定电流：0.5A)

Voltage: 40V AC (额定电压：40V AC)

Temperature: -25℃ to +85℃(Operation) （操作：-25℃ to +85℃）

-20 °C to +60°C (Storage) （储存：-20 °C to +60°C）

3.2 MASS Refer To Dongguan Vast Packaging Spec.( 量产参考广业包装规范)

3.3 Performance REQUEIREMENT and Test description (性能要求和测试描述)

The product shall be designed to meet the electrical, mechanical and environmental performance requirements specified in Figure 1. All tests shall be performed at ambient environmental conditions.
产品应符合下表中要求的电气，机械和环境要求。所有测试在符合要求的环境下进行

## 4 .Test Methods and Requirements: (测试方法及要求)

### 4.1 Examination of product (产品外观)

| Test items | | Test Conditions | Requirement |
|---|---|---|---|
| 4.1.1 | Examinatio Of Product 产品外观 | Visual<br>目视 | No peeling off the plating, deformation of the base or damage. 不得有电镀层剥落,塑料变形或破损 |
| 4.2.Electrical Performance (电气性能) | | | |
| 4.2.1 | Contact Current rating 额定电流 | (EIA-364-70A)<br>55 °C Max. ambient85°C Max. Temperature change.<br>适用的最大温度 85 °C | 0.5AMin |
| 4.2.2 | Applied Voltage Rating 额定电压 | 40 Volts AC(RMS.) continuous Max., on any signal pin with respect to the shield<br>40V 交流电应用于任何信号端至屏蔽 | No Breakdown 不能损坏 |
| 4.2.3 | Contact Resistance 接触阻抗 | (EIA -364-23)<br>Mated connectors,<br>Contact: measure by dry circuit, 20 m Volts maximum, 10 mA.<br>Shell: measure by open circuit, 5 Volts maximum, 100 mA.<br>配对的连接器，<br>端子:测试端子在回路中施加直流最大 20mV 10 mA 的电流再测端子的电阻值<br>外壳:测试外壳在开路中施加直流最大 5V 100 mA 的电流再测外壳的电阻值 | Contact ： Change from initial value=30mΩ.<br>Shell: Change from initial value=50mΩ<br>端子初始值最大不能超过30 mΩ<br>外壳初始值最大不能超过 50 mΩ |
| 4.2.4 | Dielectric Withstanding Voltage 耐电压 | (EIA -364-20C)<br>Unmated connectors, Apply 500V AC(RMS) between adjacent terminal or ground.<br>Mated connectors, Apply 300V AC(RMS)between adjacent terminal or ground.<br>没有配对的连接器在相邻的端子或接地之间通电：500V 的交 流□□<br>配对的连接器在相邻的端子或接地之间通电：300V 的交 流□□ | No Breakdown or flashover<br>不能有损坏或跳火花 |

| | | | | |
|---|---|---|---|---|
| 4.2.5 | Insulation Resistance<br>绝缘阻抗 | (EIA 364-21C)<br>Unmated connectors, apply 500 V DC between adjacent terminal or ground.<br>Mated connectors, apply 150 V DC between adjacent terminal or ground.<br>没有配对的连接器在相邻的端子或接地之间通上 500V 的直流电压 1 分钟<br>配对的连接器在相邻的端子或接地之间通上 150V 的直流电压 1 分钟 | 100 MΩ min(unmated)<br>10 MΩ min(mated)<br>没有配对需大于 100 MΩ<br>配对需大于 10 MΩ | |
| 4.3.Mechanical Performance (机械性能) | | | | |
| 4.3.1 | Insertion/ Withdrawal force<br>插入力/拔出力 | (EIA-364-13)<br>Insertion and withdrawal speed: 25mm/minute.<br>插入和拔出的速度为 25mm/分 | insertion force<br>插入力 | 44.1N {4.5kgf} Max |
| | | | Withdrawal force<br>拔出力 | 9.8 N {1.0kgf} minimum<br>39.2 N {4.0kgf} maximum |
| 4.3.2 | Latch Strength(with latch type)<br>挂钩强度 | (EIA-364-98)<br>Mate connectors, apply axial pull-out force at a rate of 13 mm/minute until the latch is disengaged or damaged<br>配对的连接器轴向以 13mm/Min 拔出，直到挂钩脱离或者损坏。 | No damage on either part of connector<br>Pull force: 49.0N(5.0kgf) Min.<br>拔出力 49.0N Min 连接器没有损坏 | |
| 4.3.3 | Durability<br>耐久测试 | (EIA -364-09)<br>Measure contact and shell resistance after the Following. Automatic cycling:10000 cycles at 100±50 Cycles per hour.<br>以每小时 100±50 的插拔次数测试 10000 次循环后量测端子和外壳的接触阻抗 | Contact Resistance 接触阻抗<br>Contact : Change from initial value: 30 milliohms maximum.<br>Shell: Change from initial value: 50 milliohms maximum.<br>端子:从初始值开始变化量小于 30mΩ<br>外壳:从初始值开始变化量小于 50mΩ | |
| 4.3.4 | Terminal retention force<br>端子保持力 | Apply axial pull out force on terminal in the housing at a rate of 25.4±3mm per minute<br>拉伸的速度应该在每分钟 25.4±3mm 之间 | Minimum retention force 3.92N (0.4kgf)/PIN<br>端子保持力不小于 3.92N(0.4kgf)<br>（此项测试仅适用于插 pin 结构） | |

| | | | |
|---|---|---|---|
| 4.3.5 | Vibration<br>振动 | (EIA-364-28 条件 3)<br>Amplitude:1.52mm P-P or 147m/s² {15G}<br>Sweep time:50-2000-50Hz in 20 minutes.<br>Duration:12 times in each(total of 36 times)X, Y, Z, axes.<br>Electrical load:DC100mA current shall be flowed during the test.(ANSI/EIA-364-28 Condition III)<br>在直流 100 毫安通电状态下测试，在 X，Y，Z 垂直 3 方向上，频率 50-2000-50 赫兹（加速度往复 20 分钟），全振幅 1.52mm P-P 或 147 m/s² {15G}，每轴 12 回计 36 回 | Appearance ： No Damage<br>Contact Resistance 接触阻抗<br>Contact：Change from initial value:30mΩMax.<br>Shell Part: Change from initial value:50mΩMax.<br>Discontinuity：1 μ sec Max.<br>外观：无损坏<br>端子：从初始值开始变化量小于 30 mΩ<br>外壳：从初始值开始变化量小于 50 mΩ<br>间断性：不超过 1 微秒 |
| 4.3.6 | Physical hock<br>物理冲击 | (EIA-364-27 条件 A)<br>Pusle width:11msec<br>Waveform: Half-sine<br>490 m/ s²(50G)3 strokes in each X,Y ,Z axes.<br>(ANSI/EIA-364-27 condition A)<br>周期：11msec<br>冲击波形：正弦半波 490 m/ s²(50G)3 循环在 X，Y，Z 轴 | Appearance ： No Damage<br>Contact Resistance 接触阻抗<br>Contact：Change from initial value:30mΩMax.<br>Shell Part: Change from initial value:50mΩMax.<br>Discontinuity：1 μ sec Max.<br>外观：无损坏<br>端子：从初始值开始变化量小于 30 mΩ<br>外壳：从初始值开始变化量小于 50 mΩ<br>间断性：不超过 1 微秒 |
| 4.4.Environmental Performance | | | |

| | | | |
|---|---|---|---|
| 4.4.1 | Thermal shock test<br>冷热冲击 | (EIA-364-32C Condition 1)<br>10 cycles of:<br>a) -55±3°C for 30 minutes<br>b) +85±3°C for 30 minutes<br>10个循环，<br>a) -55±3°C　30 分钟<br>b) +85±3°C　30 分钟 | Appearance : No Damage.<br>Contact Resistance 接触阻抗<br>Contact : Change from initial value: 30 milliohms maximum.<br>Shell: Change from initial value: 50 milliohms maximum.<br>外观：没有损坏<br>端子:从初始值开始变化量小于30mΩ<br>外壳:从初始值开始变化量小于50mΩ |
| 4.4.2 | Solder ability<br>焊锡性 | (EIA -364-52)<br>To be sipped in the solder bath 245°C±5°C for 3-5 seconds.<br>将焊锡脚浸在 245°C ± 5°C 的锡炉中 3-5 秒 | The inspected area of each lead must have 95% solder coverage minimum 表面粘锡面积不少于95% |
| 4.4.3 | Humidity<br>恒温恒湿 | (EIA- 364-31B)<br>(A) Mate connectors together and perform the test as follows　配对的连接器测试条件.<br>Temperature: +25 to +85°C（温度：+25 to +85°C）<br>Relative Humidity: 80 to 95%(相对湿度：80 to 95%),<br>Duration: 4 cycles(96 hours) 时间：4 个循环共 96 小时<br>Upon completion of the test, specimens shall be conditioned at ambient room conditions for 24 hours, after which the specified measurements shall be performed.<br>实验完成后,样品放置于室温条件中 24 小时后再进行测试 | Appearance : No Damage.<br>Contact Resistance 接触阻抗<br>Contact : Change from initial value: 30 milliohms maximum.<br>Shell: Change from initial value: 50 milliohms maximum.<br>外观：没有损坏<br>端子:从初始值开始变化量小于30mΩ<br>外壳:从初始值开始变化量小于50mΩ |
| | | (EIA- 364-31B)<br>(B) Unmated each connectors and perform the test as follows. 没有配对的连接器测试条件.<br>Temperature: +25 to +85°C（温度：+25 to +85°C）<br>Relative Humidity: 80 to 95%(相对湿度：80 to 95%)<br>Duration: 4 cycles(96 hours)　时间：4 个循环共 96 小时<br>Upon completion of the test, specimens shall be conditioned at ambient room conditions for 24 hours, after which the specified measurements shall be performed. | Appearance : No Damage.<br>外观：没有损坏<br>Conform to item of Dielectric Withstanding Voltage and Insulation Resistance.<br>符合耐电压及绝缘阻抗要求 |

| | | | |
|---|---|---|---|
| | | 实验完成后,样品放置于室温条件中 24 小时后再进行测试 | |
| 4.4.4 | Salt Spray<br>盐水喷雾 | (EIA -364-26B)<br>Temperature: 35+/-2°C 温度: 35+/-2°C<br>Concentration for salt : 5% 盐水浓度: 5%<br>(1)Duration: 48H 持续时间: 48 小时<br>Condition(条件):<br>Contact plated gold more than 15u”(include 15u”),and the material of shell for copper alloy，or stainless .<br>端子镀金厚度大于等于 15u”且壳体材质是铜合金或是不锈钢.<br>(2)Duration: 24H 持续时间: 24 小时<br>Condition(条件):<br>Contact plated gold less than 15u”,and/or the material of shell for steel.<br>端子镀金厚度小于 15u”且/或是壳体材质是铁材 | No detrimental corrosion(Terminal solder tail unrequested)<br>产品无氧化,锈蚀(端子焊脚镀锡处不作要求)<br>Contact Resistance 接触阻抗<br>Contact : Change from initial value: 30 milliohms maximum.<br>Shell: Change from initial value: 50 milliohms maximum.<br>端子:从初始值开始变化量小于 30mΩ<br>外壳:从初始值开始变化量小于 50mΩ |
| 4.4.5 | Cold resistance (Unmated)<br>耐寒性 | (JIS C 0020)<br>Unmated connectors and expose to -40°C +/-3°C for 250 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.<br>没配对的连接器放置于-40°C +/-3°C 温度中 250 小时，当完成实验后，样品放置一般环境中 1 到 2 小时后，再进行测试 | Contact resistance: 接触阻抗<br>Contact: change from initial value 30mΩMax.<br>Shell: change from initial value 50mΩMax.<br>Appearance: No damage.<br>端子：从初始值开始变化量小于 30 mΩ<br>外壳：从初始值开始变化量小于 50 mΩ<br>外观：无损坏 |
| 4.4.6 | Heat resistance (Unmated)<br>耐热性 | (EIA-364-17B)<br>Unmated connectors and expose to 85°C +/-2°C for 250 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements<br>shall be performed.<br>没配对的连接器放置于 85°C +/-2°C 温度中 250 小时，当完成实验后，样品放置一般环境中 1 到 2 小时后，再进行测试 | Contact resistance: 接触阻抗<br>Contact: change from initial value 30 mΩ Max.<br>Shell: change from initial value 50 mΩ Max.<br>Appearance: No damage.<br>端子：从初始值开始变化量小于 30 mΩ<br>外壳：从初始值开始变化量小于 50 mΩ<br>外观：无损坏 |

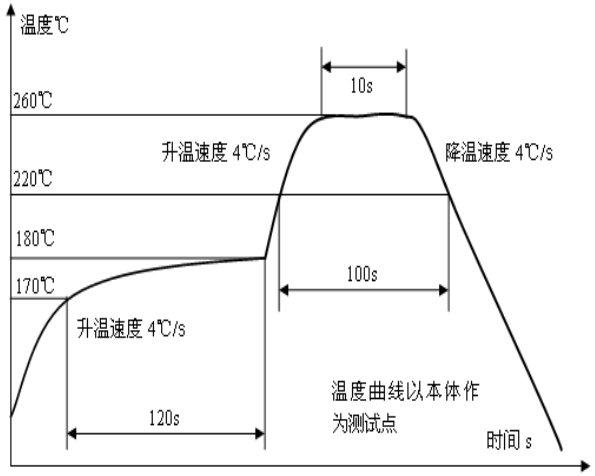
| | | | |
|---|---|---|---|
| 4.4.7 | Thermal Aging<br>高温老化 | （EIA-364-17B，Condition4，Method A）<br>Mate connector and expose to +105±2°C for 250 hours. Upon completion of the exposure period, the test specimens shall be conditional at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.<br>配对的连接器放置于 105±2°C 温度中 250 小时，当完成实验后，样品放置一般环境中 1 到 2 小时后，再进行测试 | Appearance： No Damage<br>外观：无损坏<br>Contact Resistance 接触阻抗<br>Contact: change from initial value 30 mΩ Max.端子：从初始值开始变化量小于 30 mΩ<br>Shell: change from initial value 50 mΩ Max.外壳：从初始值开始变化量小于 50 mΩ |
| 4.4.8 | IR-reflow<br>回流焊测试 | Solder Temp.：260±5°C, 10±0.5sec. 焊锡温度：260±5°C, 10±0.5sec.<br> | No physical damage shall occur.<br>不可有损坏 |

Figure 1

Note1：Shall meet visual requirements, show no physical damage, and meet requirement of additional tests as specified in the test sequence in Figures 2

说明一：测试要求不能有物理损坏，测试依据表格二的顺序进行。

3. PRODUCT QUALIFICATION AND REQUALIFICATION TEST：产品测试顺序表 Figure 2

| Test or Examination | Test Group | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **A** | **F** | **G** | **H** | **I** | **J** | **K** | **L** | **M** | | | | | |
| | Test Sequence | | | | | | | | | | | | | |
| 4.1.1.Examination of Product<br>产品外观 | **1,6** | **1,5** | **1,3** | **1,9** | **1,5** | **1,5** | **1,5** | **1,5** | **1,3** | | | | | |
| 4.2.3.Contact Resistance 接触阻抗 | **2,5** | **2,4** | | **2,8** | **2,4** | **2,4** | **2,4** | **2,4** | | | | | | |
| 4.2.4.Dielectric Withstanding Voltage 耐压 | | | | **3,7** | | | | | | | | | | |
| 4.2.5.Insulation Resistance 绝缘阻抗 | | | | **4,6** | | | | | | | | | | |
| 4.3.1Insertion / Withdrawal force 插拔力 | **3** | | | | | | | | | | | | | |
| 4.3.3.Durability 寿命测试 | **4** | | | | | | | | | | | | | |
| 4.4.1.Thermal shock test 冷热冲击 | | **3** | | | | | | | | | | | | |
| 4.4.2.Solderability 焊锡性 | | | **2** | | | | | | | | | | | |
| 4.4.3.Humidity 恒温恒湿 | | | | **5** | | | | | | | | | | |
| 4.4.4.Salt Spray 盐水喷雾 | | | | | **3** | | | | | | | | | |
| 4.4.5.Cold resistance 耐寒性 | | | | | | **3** | | | | | | | | |
| 4.4.6.Heat resistance 耐热性 | | | | | | | **3** | | | | | | | |
| 4.4.7.Thermal Aging 高温老化 | | | | | | | | **3** | | | | | | |
| 4.4.8. IR-reflow 回流焊测试 | | | | | | | | | **2** | | | | | |
| No. of Test Samples (Min.)<br>测试样品数量（最少） | **5** | **5** | **5** | **5** | **5** | **5** | **5** | **5** | **5** | | | | | |

NOTE 2：（a）Numbers indicate sequence in which tests are performed.

（b）Discontinuities shall not take place in this test group, during tests.

说明二：（a）测试依照矩阵要求数量进行测试

（b）在测试中，群组测试不能间断.

# 检 测 报 告
# Test Report



| | |
|---|---|
| **报告编号** Report No.: | VTR24030061-A |
| **产品名称** Product Name: | DP卧式 Connector |
| **产品料号** Part No.: | 109010922 |
| **样品数量** Sample Quantity: | 5Pcs |
| **试验环境** Environment: | 温度Temperature: 24 ℃　　湿度Humidity：61 %RH |
| **试验周期** Period: | 2024 年 03 月 23 日- 2024 年 04 月 14 日 |

**结果汇总 Result Summary:**

| 检测项目 Test Item | 测试结果 Result |
|---|---|
| Group A | Pass |

| 乔洪良 | 涂鑫 | 黄继检 |
|---|---|---|
| 核准Approved By: | 审核Checked By: | 实验员Tested By: |

东莞市广业电子有限公司 Dongguan Vast Electronics Co.,Ltd
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# 检 测 报 告
# Test Report



测试步骤 Test Sequence:

| 测试顺序<br>Testing Sequence | 设备名称<br>Equipment Name | 编号/型号<br>Model | 校准有效日期<br>Last Calibrated |
|---|---|---|---|
| Examination Of Product | Visual | / | / |
| Low Level Contact Resistance | Micro-Ohmmeter | TH2512B | 2025/5/6 |
| Mating&Unmating Force | Automatic push/pull test machine | 1220S | 2025/3/17 |
| Durability Test | Vertical durability testing machine | GC-CB-5 | / |

测试条件和要求Test Condition and Requirements:

| 测试项目Test Item | 测试条件Test Conditions | 测试要求Test Requirements |
|---|---|---|
| Examination Of Product | Visually, functionally inspected per applicable product drawing. Use magnifier or microscope if necessary (Reference:EIA-364-18B) | Visual inspection samples shall be free from defect such as damage, deformation, blister and burrs that are detrimental to the function and appearance. |
| Low Level Contact Resistance Test | Subject mated connectors in conduction of open circuit voltage 20mV DC max., 100mA max. Except wire conductor resistance (Reference:EIA-364-23C) ; | Contact:30mΩ Max.<br>Shell:50mΩ Max |
| Mating & Unmating Force | Test speed 25mm/minutes (Reference:EIA-364-13E) | Mating force:4.5kgf Max<br>Un-mating force:(1.0~4.0kgf) |
| Durability Test | 10000 insertion/extraction cycles at cycle rate of 100 cycles per hour (Reference:EIA-364-09D) | 1.Appearance:No physical damage<br>2.Contact: Change from initial value: 30 milliohms maximum.<br>Shell: Change from initial value: 50 milliohms maximum. |

1.Examination Of Product:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

2.Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 17.63 | 17.00 | 18.07 | 15.89 | 16.38 |
| 2 | 17.23 | 20.31 | 19.35 | 16.97 | 16.84 |
| 3 | 15.14 | 20.87 | 15.77 | 18.15 | 17.95 |
| 4 | 20.09 | 18.14 | 19.57 | 19.03 | 17.83 |

# 检 测 报 告
# Test Report



| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 5 | 20.08 | 17.31 | 17.29 | 20.23 | 19.87 |
| 6 | 16.01 | 18.72 | 18.04 | 17.70 | 15.38 |
| 7 | 16.31 | 20.94 | 15.26 | 16.09 | 19.70 |
| 8 | 19.25 | 17.83 | 18.76 | 16.28 | 20.32 |
| 9 | 18.39 | 20.78 | 16.86 | 18.18 | 18.48 |
| 10 | 18.02 | 20.32 | 15.34 | 19.00 | 16.92 |
| 11 | 18.39 | 18.35 | 18.79 | 16.48 | 16.62 |
| 12 | 19.82 | 17.33 | 17.90 | 20.95 | 19.06 |
| 13 | 19.52 | 15.01 | 19.75 | 18.73 | 15.49 |
| 14 | 19.15 | 15.20 | 18.50 | 16.87 | 15.51 |
| 15 | 18.01 | 20.52 | 17.60 | 15.83 | 18.59 |
| 16 | 19.71 | 16.34 | 20.63 | 20.61 | 20.92 |
| 17 | 20.12 | 18.78 | 16.23 | 18.56 | 20.53 |
| 18 | 18.13 | 15.38 | 18.98 | 20.88 | 18.61 |
| 19 | 20.53 | 17.25 | 17.67 | 15.86 | 17.53 |
| 20 | 19.24 | 19.33 | 15.62 | 17.71 | 18.85 |
| Shell | 2.31 | 2.36 | 2.38 | 2.35 | 2.33 |
| Result | Pass | Pass | Pass | Pass | Pass |

3.Mating & Unmating Force:(Unit:kgf)

| Sample / Item | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| Mating force | 2.46 | 2.39 | 2.36 | 2.49 | 2.44 |
| Un-mating force | 2.26 | 2.06 | 2.13 | 2.29 | 2.20 |
| Result | Pass | Pass | Pass | Pass | Pass |

4.After Durability Test 10000Cycles:(Unit:kgf)

| Sample / Item | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| Mating force | 2.38 | 2.38 | 2.45 | 2.44 | 2.31 |
| Un-mating force | 1.93 | 2.06 | 1.98 | 2.12 | 2.07 |
| Result | Pass | Pass | Pass | Pass | Pass |

5.After Durability Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 1 | 18.14 | 20.69 | 15.27 | 20.63 | 19.22 |
| 2 | 18.11 | 15.44 | 16.10 | 16.72 | 17.65 |
| 3 | 17.13 | 16.94 | 15.90 | 16.97 | 20.93 |
| 4 | 15.25 | 20.49 | 18.48 | 17.13 | 18.82 |

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 5 | 17.23 | 19.36 | 19.59 | 18.39 | 17.69 |
| 6 | 17.66 | 15.27 | 15.46 | 17.93 | 18.58 |
| 7 | 15.57 | 15.24 | 18.45 | 19.20 | 19.98 |
| 8 | 19.73 | 16.63 | 15.61 | 15.18 | 16.48 |
| 9 | 20.82 | 16.19 | 18.68 | 18.20 | 18.08 |
| 10 | 16.94 | 18.80 | 19.83 | 16.00 | 17.75 |
| 11 | 15.95 | 20.53 | 19.60 | 17.65 | 16.71 |
| 12 | 20.78 | 17.94 | 20.98 | 19.64 | 19.41 |
| 13 | 18.72 | 16.64 | 18.39 | 20.67 | 20.57 |
| 14 | 20.24 | 17.22 | 19.88 | 19.41 | 16.48 |
| 15 | 15.17 | 16.68 | 20.26 | 18.52 | 17.71 |
| 16 | 19.57 | 15.01 | 16.79 | 20.75 | 18.59 |
| 17 | 16.37 | 18.62 | 16.04 | 16.50 | 17.00 |
| 18 | 16.48 | 17.68 | 15.47 | 18.89 | 18.30 |
| 19 | 15.64 | 16.57 | 15.88 | 16.28 | 17.39 |
| 20 | 15.98 | 16.26 | 16.65 | 15.50 | 17.39 |
| Shell | 2.40 | 2.37 | 2.37 | 2.35 | 2.43 |

6.Change Before And After Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 1 | 0.51 | 3.69 | 2.80 | 4.74 | 2.84 |
| 2 | 0.88 | 4.87 | 3.25 | 0.25 | 0.81 |
| 3 | 1.99 | 3.93 | 0.13 | 1.18 | 2.98 |
| 4 | 4.84 | 2.35 | 1.09 | 1.90 | 0.99 |
| 5 | 2.85 | 2.05 | 2.30 | 1.84 | 2.18 |
| 6 | 1.65 | 3.45 | 2.58 | 0.23 | 3.20 |
| 7 | 0.74 | 5.70 | 3.19 | 3.11 | 0.28 |
| 8 | 0.48 | 1.20 | 3.15 | 1.10 | 3.84 |
| 9 | 2.43 | 4.59 | 1.82 | 0.02 | 0.40 |
| 10 | 1.08 | 1.52 | 4.49 | 3.00 | 0.83 |
| 11 | 2.44 | 2.18 | 0.81 | 1.17 | 0.09 |
| 12 | 0.96 | 0.61 | 3.08 | 1.31 | 0.35 |
| 13 | 0.80 | 1.63 | 1.36 | 1.94 | 5.08 |
| 14 | 1.09 | 2.02 | 1.38 | 2.54 | 0.97 |
| 15 | 2.84 | 3.84 | 2.66 | 2.69 | 0.88 |
| 16 | 0.14 | 1.33 | 3.84 | 0.14 | 2.33 |
| 17 | 3.75 | 0.16 | 0.19 | 2.06 | 3.53 |

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 18 | 1.65 | 2.30 | 3.51 | 1.99 | 0.31 |
| 19 | 4.89 | 0.68 | 1.79 | 0.42 | 0.14 |
| 20 | 3.26 | 3.07 | 1.03 | 2.21 | 1.46 |
| Shell | 0.09 | 0.01 | 0.01 | 0.00 | 0.10 |
| Result | Pass | Pass | Pass | Pass | Pass |

7.Examination Of Product:

| Sample / Item | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

# 检 测 报 告
# Test Report



| | |
|---|---|
| **报告编号** Report No.: | VTR24030061-F |
| **产品名称** Product Name: | DP卧式 Connector |
| **产品料号** Part No.: | 109010922 |
| **样品数量** Sample Quantity: | 5Pcs |
| **试验环境** Environment: | 温度Temperature: 24 ℃　　湿度Humidity：61 %RH |
| **试验周期** Period: | 2024 年 03 月 23 日- 2024 年 04 月 14 日 |

**结果汇总 Result Summary:**

| 检测项目 Test Item | 测试结果 Result |
|---|---|
| Group F | Pass |

| 核准Approved By: | 审核Checked By: | 实验员Tested By: |
|---|---|---|
| 乔洪良 | 涂鑫 | 黄继检 |

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# 检 测 报 告
# Test Report



测试步骤 Test Sequence:

| 测试顺序 Testing Sequence | 设备名称 Equipment Name | 编号/型号 Model | 校准有效日期 Last Calibrated |
|---|---|---|---|
| Examination Of Product | Visual | / | / |
| Low Level Contact Resistance | Micro-Ohmmeter | TH2512B | 2025/5/6 |
| Thermal Shock Test | Cold and hot impact testing | H-TS-80Z | 2025/7/17 |

测试条件和要求Test Condition and Requirements:

| 测试项目Test Item | 测试条件Test Conditions | 测试要求Test Requirements |
|---|---|---|
| Examination Of Product | Visually, functionally inspected per applicable product drawing. Use magnifier or microscope if necessary (Reference:EIA-364-18B) | Visual inspection samples shall be free from defect such as damage, deformation, blister and burrs that are detrimental to the function and appearance. |
| Low Level Contact Resistance Test | Subject mated connectors in conduction of open circuit voltage 20mV DC max., 100mA max. Except wire conductor resistance (Reference:EIA-364-23C) ; | Contact:30mΩ Max. Shell:50mΩ Max |
| Thermal Shock Test | Store in the chamber of Temperature:-55℃~+85℃;Time:10H 60minute per cycle,10cycles (Reference:EIA-364-32G) | 1.Appearance:No damage; 2.Contact:Change from initial value 30mΩ Max.;Shell:Change from initial value: 50mΩ Max.; |

试验结果记录Test/inspection Records:

1.Examination Of Product:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

2.Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 19.64 | 17.44 | 19.93 | 15.03 | 21.00 |
| 2 | 18.70 | 19.74 | 20.87 | 15.61 | 18.10 |
| 3 | 15.69 | 16.17 | 18.97 | 16.83 | 16.67 |
| 4 | 15.32 | 15.59 | 18.41 | 19.12 | 17.09 |
| 5 | 19.10 | 15.92 | 16.99 | 16.32 | 20.50 |
| 6 | 15.69 | 16.67 | 19.13 | 17.17 | 19.04 |
| 7 | 19.97 | 16.35 | 20.55 | 18.26 | 16.95 |
| 8 | 19.15 | 19.71 | 15.83 | 17.54 | 20.33 |

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 9 | 19.78 | 18.17 | 20.38 | 16.78 | 19.74 |
| 10 | 20.25 | 17.73 | 15.54 | 16.14 | 16.00 |
| 11 | 18.09 | 20.06 | 18.84 | 16.90 | 17.52 |
| 12 | 15.29 | 15.41 | 17.90 | 16.85 | 18.27 |
| 13 | 20.70 | 15.64 | 19.65 | 18.02 | 19.61 |
| 14 | 19.83 | 18.79 | 20.14 | 15.91 | 15.20 |
| 15 | 16.09 | 20.55 | 15.58 | 18.32 | 16.20 |
| 16 | 16.15 | 18.90 | 19.33 | 20.80 | 18.61 |
| 17 | 17.97 | 17.14 | 18.85 | 19.13 | 16.23 |
| 18 | 19.34 | 18.88 | 21.00 | 15.83 | 15.10 |
| 19 | 16.65 | 18.29 | 18.78 | 18.16 | 20.35 |
| 20 | 20.19 | 17.56 | 15.77 | 16.77 | 19.31 |
| Shell | 2.42 | 2.49 | 2.43 | 2.49 | 2.48 |
| Result | Pass | Pass | Pass | Pass | Pass |

3.After Thermal Shock Test:

| Sample / Item | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

4.After Thermal Shock Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 1 | 17.64 | 17.56 | 20.13 | 20.95 | 18.53 |
| 2 | 18.35 | 15.21 | 16.72 | 15.33 | 15.20 |
| 3 | 18.65 | 18.90 | 15.10 | 17.01 | 18.29 |
| 4 | 18.03 | 16.81 | 15.89 | 17.25 | 16.42 |
| 5 | 15.09 | 20.71 | 19.55 | 18.99 | 20.45 |
| 6 | 16.28 | 20.35 | 15.79 | 17.79 | 18.49 |
| 7 | 18.36 | 19.99 | 20.13 | 16.85 | 19.03 |
| 8 | 15.13 | 20.36 | 17.84 | 15.70 | 16.94 |
| 9 | 17.61 | 20.14 | 17.75 | 17.24 | 18.45 |
| 10 | 15.75 | 16.98 | 15.16 | 16.58 | 19.43 |
| 11 | 19.49 | 19.35 | 18.59 | 17.32 | 15.55 |
| 12 | 15.66 | 15.27 | 20.32 | 17.45 | 19.81 |
| 13 | 17.64 | 15.06 | 19.57 | 15.45 | 20.07 |
| 14 | 18.71 | 20.33 | 16.67 | 15.63 | 20.96 |
| 15 | 15.10 | 18.82 | 18.87 | 17.88 | 15.34 |

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 16 | 20.15 | 20.02 | 16.48 | 20.31 | 16.77 |
| 17 | 18.89 | 19.96 | 18.55 | 18.54 | 16.48 |
| 18 | 17.85 | 18.69 | 17.18 | 19.62 | 19.16 |
| 19 | 17.31 | 20.86 | 15.16 | 17.03 | 17.63 |
| 20 | 15.13 | 20.36 | 19.49 | 20.52 | 18.61 |
| Shell | 2.42 | 2.33 | 2.41 | 2.36 | 2.35 |

5.Change Before And After Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 1 | 2.00 | 0.12 | 0.20 | 5.92 | 2.47 |
| 2 | 0.35 | 4.53 | 4.15 | 0.28 | 2.90 |
| 3 | 2.96 | 2.73 | 3.87 | 0.18 | 1.62 |
| 4 | 2.71 | 1.22 | 2.52 | 1.87 | 0.67 |
| 5 | 4.01 | 4.79 | 2.56 | 2.67 | 0.05 |
| 6 | 0.59 | 3.68 | 3.34 | 0.62 | 0.55 |
| 7 | 1.61 | 3.64 | 0.42 | 1.41 | 2.08 |
| 8 | 4.02 | 0.65 | 2.01 | 1.84 | 3.39 |
| 9 | 2.17 | 1.97 | 2.63 | 0.46 | 0.70 |
| 10 | 4.50 | 0.75 | 0.38 | 0.44 | 3.43 |
| 11 | 1.40 | 3.40 | 0.25 | 0.42 | 1.97 |
| 12 | 0.40 | 0.14 | 2.42 | 0.60 | 1.54 |
| 13 | 3.06 | 0.58 | 0.08 | 0.80 | 0.46 |
| 14 | 1.12 | 1.54 | 3.47 | 0.28 | 5.76 |
| 15 | 7.80 | 1.73 | 3.29 | 0.44 | 0.86 |
| 16 | 4.00 | 1.12 | 2.85 | 0.49 | 1.84 |
| 17 | 0.92 | 2.82 | 0.30 | 0.59 | 0.25 |
| 18 | 1.49 | 0.19 | 3.82 | 3.79 | 4.06 |
| 19 | 0.66 | 2.57 | 3.62 | 1.13 | 2.72 |
| 20 | 5.06 | 2.80 | 3.72 | 3.75 | 0.70 |
| Shell | 1.10 | 0.16 | 0.02 | 0.13 | 0.13 |
| Result | Pass | Pass | Pass | Pass | Pass |

6.Examination Of Product:

| Sample / Item | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

# 检 测 报 告
# Test Report



| | |
|---|---|
| 报告编号 Report No.: | VTR24030061-G |
| 产品名称 Product Name: | DP卧式 Connector |
| 产品料号 Part No.: | 109010922 |
| 样品数量 Sample Quantity: | 5Pcs |
| 试验环境 Environment: | 温度Temperature: 24 ℃ 湿度Humidity：61 %RH |
| 试验周期 Period: | 2024 年 03 月 23 日- 2024 年 04 月 14 日 |

结果汇总 Result Summary:

| 检测项目 Test Item | 测试结果 Result |
|---|---|
| Group G | Pass |

| 核准Approved By: | 审核Checked By: | 实验员Tested By: |
|---|---|---|
| 乔洪良 | 涂鑫 | 黄继检 |

东莞市广业电子有限公司 Dongguan Vast Electronics Co.,Ltd
广东省东莞市虎门镇捷南路881号
No.881, Jienan Road, Humen Town, Dongguan City, Guangdong Province

# 检 测 报 告
# Test Report



测试步骤 Test Sequence:

| 测试顺序<br>Testing Sequence | 设备名称<br>Equipment Name | 编号/型号<br>Model | 校准有效日期<br>Last Calibrated |
|---|---|---|---|
| Examination Of Product | Visual | / | / |
| Solderability Test | Soldering Oven | P100 | / |

测试条件和要求Test Condition and Requirements:

| 测试项目Test Item | 测试条件Test Conditions | 测试要求Test Requirements |
|---|---|---|
| Examination Of Product | Visually, functionally inspected per applicable product drawing. Use magnifier or microscope if necessary (Reference:EIA-364-18B) | Visual inspection samples shall be free from defect such as damage, deformation, blister and burrs that are detrimental to the function and appearance. |
| Solderability Test | Soldering Temperature:245±5℃,Soldering Time: 3~5 seconds (Reference:EIA-364-52) | Continuous solder coating with a minimum 95% coverage |

试验结果记录Test/inspection Records:

1.Examination Of Product:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

2.Solderability Test:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Records | ≥95% | ≥95% | ≥95% | ≥95% | ≥95% |
| Result | Pass | Pass | Pass | Pass | Pass |

3.Examination Of Product:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

# 检 测 报 告
# Test Report



| | |
|---|---|
| 报告编号 Report No.: | VTR24030061-H（Un-Mated） |
| 产品名称 Product Name: | DP卧式 Connector |
| 产品料号 Part No.: | 109010922 |
| 样品数量 Sample Quantity: | 5Pcs |
| 试验环境 Environment: | 温度Temperature: 24 ℃　　湿度Humidity：61 %RH |
| 试验周期 Period: | 2024 年 03 月 23 日- 2024 年 04 月 14 日 |

结果汇总 Result Summary:

| 检测项目 Test Item | 测试结果 Result |
|---|---|
| Group H | Pass |

| 乔洪良 | 涂鑫 | 黄继检 |
|---|---|---|
| 核准Approved By: | 审核Checked By: | 实验员Tested By: |

东莞市广业电子有限公司 Dongguan Vast Electronics Co.,Ltd
广东省东莞市虎门镇捷南路881号
No.881, Jienan Road, Humen Town, Dongguan City, Guangdong Province

# 检 测 报 告
# Test Report



测试步骤 Test Sequence:

| 测试顺序<br>Testing Sequence | 设备名称<br>Equipment Name | 编号/型号<br>Model | 校准有效日期<br>Last Calibrated |
|---|---|---|---|
| Examination Of Product | Visual | / | / |
| Low Level Contact Resistance | Micro-Ohmmeter | TH2512B | 2025/5/6 |
| Dielectric Withstanding Voltage | Hi-Pot Tester | LK2670A | 2025/5/6 |
| Insulation Resistance | Insulation Tester | CC7112 | 2025/5/6 |
| Humidity Test | Programmble constant Temperature and Humidity machine | BPL-80 | 2025/10/22 |

测试条件和要求Test Condition and Requirements:

| 测试项目Test Item | 测试条件Test Conditions | 测试要求Test Requirements |
|---|---|---|
| Examination Of Product | Visually, functionally inspected per applicable product drawing. Use magnifier or microscope if necessary (Reference:EIA-364-18B) | Visual inspection samples shall be free from defect such as damage, deformation, blister and burrs that are detrimental to the function and appearance. |
| Low Level Contact Resistance Test | Subject mated connectors in conduction of open circuit voltage 20mV DC max., 100mA max. Except wire conductor resistance (Reference:EIA-364-23C) ; | Contact:30mΩ Max.<br>Shell:50mΩ Max |
| Dielectric Withstanding Voltage | Un-mated,apply 500V AC for 1 minute between adjacent terminal or ground.Test time 60s (Reference:EIA-364-20E) | No Breakdown |
| Insulation Resistance Test | Un-mated,apply 500V DC between adjacent terminalor ground, Test time 60s (Reference:EIA-364-21E) | Insulation resistance≥100MΩ |
| Humidity&Temperature Test | Store in the chamber of temp.(25~85)℃,Humidity:80~95%(RH) for 4 cycles (96hours), Upon completion of the test, specimens shall be conditioned at ambient room conditions for 24hours , after which the specified measurements shall be performed (Reference:EIA-364-31B) | 1.Appearance:No damage<br>2.Conform to item of Dielectric Withstanding Voltage and Insulation Resistance. |

# 检 测 报 告
# Test Report



试验结果记录Test/inspection Records:

1.Examination Of Product:

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

2.Low Level Contact Resistance Test(Unit:mΩ):

| Pin. \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 17.40 | 17.97 | 20.09 | 18.51 | 17.46 |
| 2 | 20.49 | 20.21 | 15.83 | 16.58 | 15.26 |
| 3 | 20.97 | 15.84 | 16.45 | 20.49 | 19.46 |
| 4 | 20.10 | 15.11 | 17.99 | 18.92 | 17.04 |
| 5 | 16.31 | 15.07 | 20.87 | 18.53 | 15.87 |
| 6 | 16.93 | 15.20 | 16.91 | 18.26 | 18.22 |
| 7 | 19.51 | 15.97 | 17.35 | 16.59 | 16.41 |
| 8 | 18.18 | 16.15 | 20.71 | 19.29 | 19.88 |
| 9 | 19.49 | 18.89 | 19.11 | 19.70 | 15.75 |
| 10 | 18.14 | 20.11 | 19.98 | 15.92 | 16.25 |
| 11 | 18.62 | 17.87 | 18.14 | 18.67 | 18.80 |
| 12 | 16.76 | 15.30 | 19.21 | 20.43 | 18.96 |
| 13 | 19.49 | 15.40 | 18.61 | 19.58 | 17.43 |
| 14 | 19.34 | 19.72 | 17.49 | 20.26 | 19.35 |
| 15 | 18.03 | 18.35 | 16.87 | 15.64 | 20.06 |
| 16 | 19.40 | 16.85 | 19.16 | 16.58 | 18.40 |
| 17 | 16.78 | 16.66 | 15.39 | 16.82 | 18.20 |
| 18 | 16.64 | 16.49 | 16.65 | 18.41 | 19.22 |
| 19 | 20.33 | 19.93 | 16.58 | 18.21 | 18.89 |
| 20 | 16.90 | 17.19 | 15.18 | 19.74 | 19.86 |
| Shell | 2.33 | 2.45 | 2.33 | 2.45 | 2.41 |
| Result | Pass | Pass | Pass | Pass | Pass |

3.Dielectric Withstanding Voltage Test:

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Records | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

# 检 测 报 告
# Test Report



4.Insulation Resistance Test(Unit:MΩ):

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Records | ≥100 | ≥100 | ≥100 | ≥100 | ≥100 |
| Result | Pass | Pass | Pass | Pass | Pass |

5.After Humidity&Temperature Test:

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |

6.After Humidity&Temperature Insulation Resistance Test(Unit:MΩ):

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Records | ≥100 | ≥100 | ≥100 | ≥100 | ≥100 |
| Result | Pass | Pass | Pass | Pass | Pass |

7.After Humidity&Temperature Dielectric Withstanding Voltage Test:

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Records | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

8.After Humidity&Temperature Low Level Contact Resistance Test(Unit:mΩ):

| Pin. \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 20.01 | 19.58 | 17.74 | 16.30 | 15.60 |
| 2 | 16.69 | 15.34 | 17.55 | 19.57 | 16.99 |
| 3 | 17.51 | 18.88 | 18.00 | 18.18 | 17.19 |
| 4 | 16.28 | 15.58 | 18.57 | 20.73 | 15.03 |
| 5 | 17.98 | 17.49 | 16.60 | 15.98 | 16.22 |
| 6 | 16.28 | 16.01 | 15.25 | 17.00 | 17.49 |
| 7 | 15.83 | 18.75 | 18.07 | 18.90 | 18.62 |
| 8 | 21.00 | 18.77 | 15.21 | 17.87 | 19.02 |
| 9 | 20.75 | 16.96 | 16.17 | 20.76 | 20.67 |
| 10 | 16.54 | 16.03 | 15.66 | 17.05 | 18.45 |
| 11 | 19.13 | 19.57 | 15.49 | 17.78 | 16.53 |
| 12 | 15.69 | 17.07 | 16.53 | 17.46 | 19.66 |
| 13 | 15.33 | 16.46 | 15.38 | 15.68 | 18.75 |
| 14 | 18.77 | 20.66 | 19.43 | 17.47 | 17.32 |
| 15 | 15.68 | 18.36 | 18.83 | 15.07 | 17.56 |
| 16 | 17.18 | 19.44 | 19.26 | 15.64 | 17.49 |

# 检 测 报 告
# Test Report



| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 17 | 17.85 | 19.95 | 16.91 | 20.17 | 18.43 |
| 18 | 15.75 | 19.91 | 18.76 | 19.63 | 17.50 |
| 19 | 15.78 | 20.73 | 17.19 | 20.13 | 17.69 |
| 20 | 20.79 | 16.92 | 18.58 | 20.08 | 18.48 |
| Shell | 2.32 | 2.43 | 2.30 | 2.31 | 2.30 |
| Result | Pass | Pass | Pass | Pass | Pass |

9.Change Before And After Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 1 | 2.61 | 1.61 | 2.35 | 2.21 | 1.86 |
| 2 | 3.80 | 4.87 | 1.72 | 2.99 | 1.73 |
| 3 | 3.46 | 3.04 | 1.55 | 2.31 | 2.27 |
| 4 | 3.82 | 0.47 | 0.58 | 1.81 | 2.01 |
| 5 | 1.67 | 2.42 | 4.27 | 2.55 | 0.35 |
| 6 | 0.65 | 0.81 | 1.66 | 1.26 | 0.73 |
| 7 | 3.68 | 2.78 | 0.72 | 2.31 | 2.21 |
| 8 | 2.82 | 2.62 | 5.50 | 1.42 | 0.86 |
| 9 | 1.26 | 1.93 | 2.94 | 1.06 | 4.92 |
| 10 | 1.60 | 4.08 | 4.32 | 1.13 | 2.20 |
| 11 | 0.51 | 1.70 | 2.65 | 0.89 | 2.27 |
| 12 | 1.07 | 1.77 | 2.68 | 2.97 | 0.70 |
| 13 | 4.16 | 1.06 | 3.23 | 3.90 | 1.32 |
| 14 | 0.57 | 0.94 | 1.94 | 2.79 | 2.03 |
| 15 | 2.35 | 0.01 | 1.96 | 0.57 | 2.50 |
| 16 | 2.22 | 2.59 | 0.10 | 0.94 | 0.91 |
| 17 | 1.07 | 3.29 | 1.52 | 3.35 | 0.23 |
| 18 | 0.89 | 3.42 | 2.11 | 1.22 | 1.72 |
| 19 | 4.55 | 0.80 | 0.61 | 1.92 | 1.20 |
| 20 | 3.89 | 0.27 | 3.40 | 0.34 | 1.38 |
| Shell | 0.01 | 0.02 | 0.03 | 0.14 | 0.11 |
| Result | Pass | Pass | Pass | Pass | Pass |

10.Examination Of Product:

| Sample / Item | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

# 检 测 报 告
# Test Report



| | |
|---|---|
| 报告编号 Report No.: | VTR24030061-H(Mated) |
| 产品名称 Product Name: | DP卧式 Connector |
| 产品料号 Part No.: | 109010922 |
| 样品数量 Sample Quantity: | 5Pcs |
| 试验环境 Environment: | 温度Temperature: 24 ℃ 湿度Humidity：61 %RH |
| 试验周期 Period: | 2024 年 03 月 23 日- 2024 年 04 月 14 日 |

结果汇总 Result Summary:

| 检测项目 Test Item | 测试结果 Result |
|---|---|
| Group H | Pass |

| 核准Approved By: | 审核Checked By: | 实验员Tested By: |
|---|---|---|
| 乔洪良 | 涂鑫 | 黄继检 |

东莞市广业电子有限公司 Dongguan Vast Electronics Co.,Ltd
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# 检 测 报 告
# Test Report



测试步骤 Test Sequence:

| 测试顺序<br>Testing Sequence | 设备名称<br>Equipment Name | 编号/型号<br>Model | 校准有效日期<br>Last Calibrated |
|---|---|---|---|
| Examination Of Product | Visual | / | / |
| Low Level Contact Resistance | Micro-Ohmmeter | TH2512B | 2025/5/6 |
| Dielectric Withstanding Voltage | Hi-Pot Tester | LK2670A | 2025/5/6 |
| Insulation Resistance | Insulation Tester | CC7112 | 2025/5/6 |
| Humidity&Temperature Test | Programmble constant Temperature and Humidity machine | BPL-80 | 2025/10/22 |

测试条件和要求Test Condition and Requirements:

| 测试项目Test Item | 测试条件Test Conditions | 测试要求Test Requirements |
|---|---|---|
| Examination Of Product | Visually, functionally inspected per applicable product drawing. Use magnifier or microscope if necessary (Reference:EIA-364-18B) | Visual inspection samples shall be free from defect such as damage, deformation, blister and burrs that are detrimental to the function and appearance. |
| Low Level Contact Resistance Test | Subject mated connectors in conduction of open circuit voltage 20mV DC max., 100mA max. Except wire conductor resistance (Reference:EIA-364-23C) ; | Contact:30mΩ Max.<br>Shell:50mΩ Max |
| Dielectric Withstanding Voltage | Mated,apply 300V AC for 1 minute between adjacent terminal or ground.Test time 60s (Reference:EIA-364-20E) | No Breakdown |
| Insulation Resistance Test | Mated,apply 150V DC between adjacent terminalor ground, Test time 60s (Reference:EIA-364-21E) | Insulation resistance≥10MΩ |
| Humidity&Temperature Test | Store in the chamber of temp.(25~85)℃,Humidity:80~95%(RH) for 4 cycles (96hours), Upon completion of the test, specimens shall be conditioned at ambient room conditions for 24hours , after which the specified measurements shall be performed (Reference:EIA-364-31B) | 1.Appearance:No damage<br>2.Conform to item of Dielectric Withstanding Voltage and Insulation Resistance. |

# 检 测 报 告
# Test Report



试验结果记录Test/inspection Records:

1.Examination Of Product:

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

2.Low Level Contact Resistance Test(Unit:mΩ):

| Pin. \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 20.33 | 17.71 | 16.93 | 15.57 | 19.02 |
| 2 | 15.25 | 18.58 | 17.41 | 16.28 | 18.66 |
| 3 | 20.79 | 19.03 | 15.02 | 19.66 | 15.55 |
| 4 | 16.54 | 15.79 | 15.99 | 15.00 | 17.24 |
| 5 | 16.70 | 17.08 | 15.37 | 19.16 | 18.46 |
| 6 | 16.10 | 18.80 | 20.93 | 18.96 | 17.47 |
| 7 | 16.08 | 19.27 | 16.39 | 18.62 | 17.32 |
| 8 | 19.68 | 18.68 | 15.80 | 15.84 | 19.02 |
| 9 | 17.40 | 18.64 | 17.10 | 18.66 | 19.45 |
| 10 | 15.09 | 16.11 | 16.10 | 15.48 | 17.00 |
| 11 | 17.22 | 20.51 | 15.33 | 18.41 | 19.27 |
| 12 | 18.95 | 15.24 | 17.50 | 16.21 | 20.06 |
| 13 | 19.31 | 17.30 | 19.04 | 19.00 | 17.94 |
| 14 | 18.22 | 20.35 | 18.75 | 20.72 | 20.99 |
| 15 | 17.15 | 18.54 | 15.06 | 20.71 | 18.94 |
| 16 | 18.23 | 17.49 | 15.24 | 19.20 | 17.31 |
| 17 | 17.97 | 18.66 | 18.21 | 17.92 | 16.43 |
| 18 | 15.99 | 18.90 | 20.16 | 19.64 | 18.55 |
| 19 | 18.06 | 19.53 | 19.76 | 20.85 | 20.37 |
| 20 | 16.76 | 17.30 | 20.23 | 15.22 | 17.65 |
| Shell | 2.32 | 2.40 | 2.37 | 2.44 | 2.41 |
| Result | Pass | Pass | Pass | Pass | Pass |

3.Dielectric Withstanding Voltage Test:

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Records | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

4.Insulation Resistance Test(Unit:MΩ):

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Records | ≥10 | ≥10 | ≥10 | ≥10 | ≥10 |
| Result | Pass | Pass | Pass | Pass | Pass |

5.After Humidity&Temperature Test:

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |

6.After Humidity&Temperature Insulation Resistance Test(Unit:MΩ):

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Records | ≥10 | ≥10 | ≥10 | ≥10 | ≥10 |
| Result | Pass | Pass | Pass | Pass | Pass |

7.After Humidity&Temperature Dielectric Withstanding Voltage Test:

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Records | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

8.After Humidity&Temperature Low Level Contact Resistance Test(Unit:mΩ):

| Pin. \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 19.22 | 19.78 | 16.84 | 19.16 | 16.47 |
| 2 | 20.11 | 17.43 | 16.85 | 16.33 | 17.85 |
| 3 | 17.14 | 19.41 | 18.34 | 20.58 | 16.66 |
| 4 | 16.73 | 17.14 | 17.92 | 16.51 | 16.03 |
| 5 | 15.49 | 16.18 | 19.29 | 15.05 | 17.15 |
| 6 | 15.60 | 18.81 | 17.52 | 19.73 | 19.51 |
| 7 | 17.67 | 17.88 | 16.03 | 20.81 | 15.39 |
| 8 | 15.29 | 16.79 | 16.20 | 17.57 | 18.74 |
| 9 | 15.42 | 17.33 | 20.63 | 16.95 | 17.65 |
| 10 | 17.61 | 20.03 | 18.17 | 15.84 | 15.87 |
| 11 | 15.49 | 17.85 | 19.53 | 15.39 | 18.12 |
| 12 | 19.33 | 15.46 | 20.61 | 18.08 | 17.84 |
| 13 | 17.85 | 20.90 | 17.95 | 17.54 | 19.60 |
| 14 | 20.99 | 17.99 | 19.65 | 19.58 | 15.53 |
| 15 | 18.75 | 19.74 | 16.80 | 19.92 | 16.28 |
| 16 | 20.76 | 20.84 | 19.78 | 20.91 | 17.88 |

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 17 | 16.01 | 19.31 | 17.52 | 16.60 | 18.04 |
| 18 | 17.04 | 19.61 | 17.96 | 20.74 | 18.42 |
| 19 | 18.28 | 15.74 | 18.21 | 20.69 | 20.73 |
| 20 | 16.01 | 15.48 | 17.63 | 19.15 | 16.73 |
| Shell | 2.34 | 2.33 | 2.36 | 2.31 | 2.37 |
| Result | Pass | Pass | Pass | Pass | Pass |

9.Change Before And After Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 1 | 1.11 | 2.07 | 0.09 | 3.59 | 2.55 |
| 2 | 4.86 | 1.15 | 0.56 | 0.05 | 0.81 |
| 3 | 3.65 | 0.38 | 3.32 | 0.92 | 1.11 |
| 4 | 0.19 | 1.35 | 1.93 | 1.51 | 1.21 |
| 5 | 1.21 | 0.90 | 3.92 | 4.11 | 1.31 |
| 6 | 0.50 | 0.01 | 3.41 | 0.77 | 2.04 |
| 7 | 1.59 | 1.39 | 0.36 | 2.19 | 1.93 |
| 8 | 4.39 | 1.89 | 0.40 | 1.73 | 0.28 |
| 9 | 1.98 | 1.31 | 3.53 | 1.71 | 1.80 |
| 10 | 2.52 | 3.92 | 2.07 | 0.36 | 1.13 |
| 11 | 1.73 | 2.66 | 4.20 | 3.02 | 1.15 |
| 12 | 0.38 | 0.22 | 3.11 | 1.87 | 2.22 |
| 13 | 1.46 | 3.60 | 1.09 | 1.46 | 1.66 |
| 14 | 2.77 | 2.36 | 0.90 | 1.14 | 5.46 |
| 15 | 1.60 | 1.20 | 1.74 | 0.79 | 2.66 |
| 16 | 2.53 | 3.35 | 4.54 | 1.71 | 0.57 |
| 17 | 1.96 | 0.65 | 0.69 | 1.32 | 1.61 |
| 18 | 1.05 | 0.71 | 2.20 | 1.10 | 0.13 |
| 19 | 0.22 | 3.79 | 1.55 | 0.16 | 0.36 |
| 20 | 0.75 | 1.82 | 2.60 | 3.93 | 0.92 |
| Shell | 0.02 | 0.07 | 0.01 | 0.13 | 0.04 |
| Result | Pass | Pass | Pass | Pass | Pass |

10.Examination Of Product:

| Sample / Item | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

# 检 测 报 告
# Test Report



| | |
|---|---|
| **报告编号** Report No.: | VTR24030061-I |
| **产品名称** Product Name: | DP卧式 Connector |
| **产品料号** Part No.: | 109010922 |
| **样品数量** Sample Quantity: | 5Pcs |
| **试验环境** Environment: | 温度Temperature: 24 ℃　　湿度Humidity：61 %RH |
| **试验周期** Period: | 2024 年 03 月 23 日- 2024 年 04 月 14 日 |

**结果汇总 Result Summary:**

| 检测项目 Test Item | 测试结果 Result |
|---|---|
| Group I | Pass |

| 核准Approved By: | 审核Checked By: | 实验员Tested By: |
|---|---|---|
| 乔洪良 | 涂鑫 | 黄继检 |

东莞市广业电子有限公司 Dongguan Vast Electronics Co.,Ltd
广东省东莞市虎门镇捷南路881号
No.881, Jienan Road, Humen Town, Dongguan City, Guangdong Province

# 检 测 报 告
# Test Report



测试步骤 Test Sequence:

| 测试顺序 Testing Sequence | 设备名称 Equipment Name | 编号/型号 Model | 校准有效日期 Last Calibrated |
|---|---|---|---|
| Examination Of Product | Visual | / | / |
| Low Level Contact Resistance | Micro-Ohmmeter | TH2512B | 2025/5/6 |
| Salt Spray Test | Salt Spray Tester | GC-YW-90 | 2025/10/21 |

测试条件和要求Test Condition and Requirements:

| 测试项目Test Item | 测试条件Test Conditions | 测试要求Test Requirements |
|---|---|---|
| Examination Of Product | Visually, functionally inspected per applicable product drawing. Use magnifier or microscope if necessary (Reference:EIA-364-18B) | Visual inspection samples shall be free from defect such as damage, deformation, blister and burrs that are detrimental to the function and appearance. |
| Low Level Contact Resistance Test | Subject mated connectors in conduction of open circuit voltage 20mV DC max., 100mA max. Except wire conductor resistance (Reference:EIA-364-23C) ; | Contact:30mΩ Max. Shell:50mΩ Max |
| Salt Spray Test | Testing chamber temperature 35℃, Saturation chamber temperature 47℃, Salt concentration 5%, pH=6.68; time 24 hours. (Reference:EIA-364-26C) | 1.Appearance:No damage;(Terminal solder tail unrequested) 2.Contact:Change from initial value 30mΩ Max.;Shell:Change from initial value: 50mΩ Max.; |

试验结果记录Test/inspection Records:

1.Examination Of Product:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

2.Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 15.08 | 18.18 | 20.15 | 17.47 | 18.89 |
| 2 | 17.51 | 17.57 | 15.72 | 18.71 | 18.48 |
| 3 | 20.90 | 20.47 | 15.90 | 17.87 | 18.06 |
| 4 | 16.64 | 18.15 | 19.22 | 18.39 | 19.59 |
| 5 | 18.07 | 17.51 | 19.24 | 18.62 | 19.17 |
| 6 | 15.44 | 19.74 | 15.67 | 16.22 | 19.06 |
| 7 | 17.39 | 18.57 | 18.24 | 19.71 | 18.79 |
| 8 | 15.98 | 20.28 | 19.53 | 19.07 | 19.17 |

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 9 | 17.06 | 15.27 | 18.60 | 18.18 | 16.62 |
| 10 | 20.66 | 19.32 | 18.20 | 20.61 | 19.06 |
| 11 | 16.85 | 16.59 | 20.05 | 16.20 | 17.29 |
| 12 | 15.25 | 18.90 | 19.24 | 15.47 | 18.33 |
| 13 | 17.41 | 20.00 | 18.22 | 20.94 | 20.95 |
| 14 | 20.00 | 18.19 | 17.54 | 16.65 | 17.52 |
| 15 | 15.37 | 18.76 | 20.64 | 19.28 | 16.37 |
| 16 | 19.24 | 19.48 | 18.73 | 18.28 | 15.12 |
| 17 | 15.54 | 20.44 | 16.06 | 19.52 | 20.37 |
| 18 | 18.50 | 16.48 | 16.57 | 15.66 | 15.64 |
| 19 | 19.79 | 16.23 | 18.08 | 16.55 | 15.84 |
| 20 | 16.69 | 16.26 | 17.53 | 18.57 | 18.36 |
| Shell | 2.32 | 2.34 | 2.38 | 2.35 | 2.45 |
| Result | Pass | Pass | Pass | Pass | Pass |

3.After Salt Spray Test:

| Sample / Item | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| Shell | OK | OK | OK | OK | OK |
| Contact | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

4.After Salt Spray Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 1 | 20.03 | 19.06 | 18.42 | 18.28 | 20.47 |
| 2 | 17.62 | 18.91 | 19.53 | 17.84 | 18.00 |
| 3 | 18.29 | 20.51 | 17.92 | 19.02 | 18.04 |
| 4 | 20.18 | 20.81 | 20.25 | 15.03 | 16.81 |
| 5 | 15.88 | 16.57 | 19.07 | 16.24 | 20.35 |
| 6 | 19.75 | 20.59 | 16.96 | 20.23 | 16.46 |
| 7 | 18.12 | 15.71 | 16.54 | 16.41 | 17.11 |
| 8 | 15.79 | 20.87 | 19.83 | 20.06 | 17.30 |
| 9 | 15.18 | 16.04 | 17.27 | 17.51 | 16.10 |
| 10 | 17.24 | 17.11 | 20.03 | 16.85 | 16.50 |
| 11 | 19.87 | 17.89 | 18.02 | 18.10 | 15.54 |
| 12 | 18.10 | 18.98 | 15.16 | 19.73 | 17.37 |
| 13 | 15.85 | 17.44 | 20.96 | 18.44 | 17.87 |
| 14 | 15.92 | 19.68 | 15.20 | 20.21 | 16.38 |

| | | | | | |
|---|---|---|---|---|---|
| 15 | 15.52 | 16.65 | 17.06 | 18.16 | 18.53 |
| 16 | 17.60 | 17.96 | 20.53 | 19.30 | 19.75 |
| 17 | 17.72 | 18.21 | 16.43 | 20.52 | 17.50 |
| 18 | 18.46 | 19.20 | 19.87 | 20.60 | 17.57 |
| 19 | 20.39 | 20.94 | 20.39 | 15.52 | 16.88 |
| 20 | 18.43 | 20.36 | 20.59 | 18.38 | 17.15 |
| Shell | 2.34 | 2.45 | 2.43 | 2.31 | 2.47 |

5.Change Before And After Low Level Contact Resistance(Unit:mΩ):

| Sample / Pin. | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 4.95 | 0.88 | 1.73 | 0.81 | 1.58 |
| 2 | 0.11 | 1.34 | 3.81 | 0.87 | 0.48 |
| 3 | 2.61 | 0.04 | 2.02 | 1.15 | 0.02 |
| 4 | 3.54 | 2.66 | 1.03 | 3.36 | 2.78 |
| 5 | 2.19 | 0.94 | 0.17 | 2.38 | 1.18 |
| 6 | 4.31 | 0.85 | 1.29 | 4.01 | 2.60 |
| 7 | 0.73 | 2.86 | 1.70 | 3.30 | 1.68 |
| 8 | 0.19 | 0.59 | 0.30 | 0.99 | 1.87 |
| 9 | 1.88 | 0.77 | 1.33 | 0.67 | 0.52 |
| 10 | 3.42 | 2.21 | 1.83 | 3.76 | 2.56 |
| 11 | 3.02 | 1.30 | 2.03 | 1.90 | 1.75 |
| 12 | 2.85 | 0.08 | 4.08 | 4.26 | 0.96 |
| 13 | 1.56 | 2.56 | 2.74 | 2.50 | 3.08 |
| 14 | 4.08 | 1.49 | 2.34 | 3.56 | 1.14 |
| 15 | 0.15 | 2.11 | 3.58 | 1.12 | 2.16 |
| 16 | 1.64 | 1.52 | 1.80 | 1.02 | 4.63 |
| 17 | 2.18 | 2.23 | 0.37 | 1.00 | 2.87 |
| 18 | 0.04 | 2.72 | 3.30 | 4.94 | 1.93 |
| 19 | 0.60 | 4.71 | 2.31 | 1.03 | 1.04 |
| 20 | 1.74 | 4.10 | 3.06 | 0.19 | 1.21 |
| Shell | 0.02 | 0.11 | 0.05 | 0.04 | 0.02 |
| Result | Pass | Pass | Pass | Pass | Pass |

6.Examination Of Product:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

# 检 测 报 告
# Test Report



| | |
|---|---|
| 报告编号 Report No.: | VTR24030061-J |
| 产品名称 Product Name: | DP卧式 Connector |
| 产品料号 Part No.: | 109010922 |
| 样品数量 Sample Quantity: | 5Pcs |
| 试验环境 Environment: | 温度Temperature: 24 ℃ 湿度Humidity：61 %RH |
| 试验周期 Period: | 2024 年 03 月 23 日- 2024 年 04 月 14 日 |

结果汇总 Result Summary:

| 检测项目 Test Item | 测试结果 Result |
|---|---|
| Group J | Pass |

| 核准Approved By: | 审核Checked By: | 实验员Tested By: |
|---|---|---|
| 乔洪良 | 涂鑫 | 黄继检 |

东莞市广业电子有限公司 Dongguan Vast Electronics Co.,Ltd
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No.881, Jienan Road, Humen Town, Dongguan City, Guangdong Province

# 检 测 报 告
# Test Report



测试步骤 Test Sequence:

| 测试顺序 Testing Sequence | 设备名称 Equipment Name | 编号/型号 Model | 校准有效日期 Last Calibrated |
|---|---|---|---|
| Examination Of Product | Visual | / | / |
| Low Level Contact Resistance | Micro-Ohmmeter | TH2512B | 2025/5/6 |
| Low Temperature Life Test | Programmble constant Temperature and Humidity machine | GTTH-408-60-1P | 2025/5/6 |

测试条件和要求Test Condition and Requirements:

| 测试项目Test Item | 测试条件Test Conditions | 测试要求Test Requirements |
|---|---|---|
| Examination Of Product | Visually, functionally inspected per applicable product drawing. Use magnifier or microscope if necessary (Reference:EIA-364-18B) | Visual inspection samples shall be free from defect such as damage, deformation, blister and burrs that are detrimental to the function and appearance. |
| Low Level Contact Resistance Test | Subject mated connectors in conduction of open circuit voltage 20mV DC max., 100mA max. Except wire conductor resistance (Reference:EIA-364-23C) ; | Contact:30mΩ Max.<br>Shell:50mΩ Max |
| Low Temperature Life Test | Store in the chamber of temp.-40℃ for 250hours, Upon completion of the test, specimens shall be conditioned at ambient room conditions for 1 to 2 hours , after which the specified measurements shall be performed (Reference:JIS-C-0020) | 1.Appearance:No damage;<br>2.Contact:Change from initial value 30mΩ Max.;Shell:Change from initial value: 50mΩ Max.; |

试验结果记录Test/inspection Records:

1.Examination Of Product:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

2.Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 16.53 | 15.66 | 19.87 | 18.35 | 16.51 |
| 2 | 17.16 | 20.94 | 15.04 | 19.40 | 17.06 |
| 3 | 19.59 | 20.62 | 16.13 | 16.23 | 17.09 |
| 4 | 17.50 | 17.27 | 15.36 | 17.62 | 18.10 |

| | | | | | |
|---|---|---|---|---|---|
| 5 | 18.49 | 17.89 | 18.44 | 20.16 | 16.37 |
| 6 | 17.10 | 19.12 | 17.67 | 17.70 | 18.46 |
| 7 | 16.28 | 15.44 | 15.14 | 20.81 | 17.80 |
| 8 | 19.39 | 18.00 | 18.86 | 16.34 | 20.26 |
| 9 | 19.60 | 19.15 | 15.81 | 19.64 | 20.39 |
| 10 | 15.23 | 16.55 | 16.71 | 16.65 | 15.94 |
| 11 | 16.11 | 17.28 | 15.35 | 16.84 | 15.87 |
| 12 | 19.84 | 17.52 | 18.18 | 17.47 | 15.79 |
| 13 | 20.04 | 18.98 | 17.59 | 16.40 | 16.84 |
| 14 | 17.95 | 17.87 | 19.04 | 19.08 | 16.23 |
| 15 | 17.09 | 15.30 | 15.66 | 19.14 | 17.84 |
| 16 | 19.18 | 17.23 | 15.63 | 20.48 | 19.34 |
| 17 | 19.07 | 19.88 | 17.61 | 18.75 | 18.97 |
| 18 | 19.51 | 20.83 | 16.17 | 20.24 | 16.89 |
| 19 | 18.56 | 20.50 | 17.86 | 18.33 | 19.81 |
| 20 | 19.17 | 19.58 | 18.33 | 20.71 | 16.24 |
| Shell | 2.37 | 2.41 | 2.31 | 2.42 | 2.44 |
| Result | Pass | Pass | Pass | Pass | Pass |

3.After Low Temperature Life Test:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

4.After Low Temperature Life Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 15.68 | 18.43 | 20.67 | 19.70 | 15.25 |
| 2 | 16.42 | 19.05 | 19.90 | 15.96 | 17.25 |
| 3 | 20.94 | 19.88 | 17.97 | 17.56 | 17.40 |
| 4 | 20.03 | 20.07 | 18.77 | 17.28 | 18.33 |
| 5 | 17.55 | 15.93 | 15.15 | 19.31 | 19.15 |
| 6 | 16.71 | 15.10 | 19.11 | 16.75 | 19.43 |
| 7 | 15.53 | 17.48 | 18.42 | 17.75 | 18.02 |
| 8 | 17.82 | 15.10 | 19.97 | 17.79 | 19.36 |
| 9 | 18.20 | 19.28 | 15.49 | 16.53 | 16.50 |
| 10 | 19.64 | 20.84 | 18.57 | 16.77 | 20.21 |

| | | | | | |
|---|---|---|---|---|---|
| 11 | 19.57 | 18.42 | 16.02 | 17.60 | 18.27 |
| 12 | 15.97 | 15.93 | 16.12 | 19.20 | 15.91 |
| 13 | 15.70 | 15.97 | 17.87 | 16.34 | 15.38 |
| 14 | 19.78 | 18.04 | 20.40 | 15.33 | 15.67 |
| 15 | 19.92 | 15.09 | 20.18 | 16.68 | 17.95 |
| 16 | 16.44 | 17.95 | 19.67 | 20.27 | 18.45 |
| 17 | 20.85 | 18.51 | 19.02 | 15.75 | 15.75 |
| 18 | 19.68 | 19.66 | 17.32 | 20.58 | 16.35 |
| 19 | 19.51 | 17.67 | 19.24 | 17.27 | 15.53 |
| 20 | 20.87 | 19.31 | 18.73 | 19.48 | 16.04 |
| Shell | 2.37 | 2.33 | 2.44 | 2.38 | 2.40 |

5.Change Before And After Low Level Contact Resistance(Unit:mΩ):

| Sample / Pin. | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 0.85 | 2.77 | 0.80 | 1.35 | 1.26 |
| 2 | 0.74 | 1.89 | 4.86 | 3.44 | 0.19 |
| 3 | 1.35 | 0.74 | 1.84 | 1.33 | 0.31 |
| 4 | 2.53 | 2.80 | 3.41 | 0.34 | 0.23 |
| 5 | 0.94 | 1.96 | 3.29 | 0.85 | 2.78 |
| 6 | 0.39 | 4.02 | 1.44 | 0.95 | 0.97 |
| 7 | 0.75 | 2.04 | 3.28 | 3.06 | 0.22 |
| 8 | 1.57 | 2.90 | 1.11 | 1.45 | 0.90 |
| 9 | 1.40 | 0.13 | 0.32 | 3.11 | 3.89 |
| 10 | 4.41 | 4.29 | 1.86 | 0.12 | 4.27 |
| 11 | 3.46 | 1.14 | 0.67 | 0.76 | 2.40 |
| 12 | 3.87 | 1.59 | 2.06 | 1.73 | 0.12 |
| 13 | 4.34 | 3.01 | 0.28 | 0.06 | 1.46 |
| 14 | 1.83 | 0.17 | 1.36 | 3.75 | 0.56 |
| 15 | 2.83 | 0.21 | 4.52 | 2.46 | 0.11 |
| 16 | 2.74 | 0.72 | 4.04 | 0.21 | 0.89 |
| 17 | 1.78 | 1.37 | 1.41 | 3.00 | 3.22 |
| 18 | 0.17 | 1.17 | 1.15 | 0.34 | 0.54 |
| 19 | 0.95 | 2.83 | 1.38 | 1.06 | 4.28 |
| 20 | 1.70 | 0.27 | 0.40 | 1.23 | 0.20 |
| Shell | 2.44 | 2.44 | 2.42 | 2.40 | 2.47 |
| Result | Pass | Pass | Pass | Pass | Pass |

6.Examination Of Product:

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

# 检 测 报 告
# Test Report



| | |
|---|---|
| 报告编号 Report No.: | VTR24030061-K |
| 产品名称 Product Name: | DP卧式 Connector |
| 产品料号 Part No.: | 109010922 |
| 样品数量 Sample Quantity: | 5Pcs |
| 试验环境 Environment: | 温度Temperature: 24 ℃ 湿度Humidity：61 %RH |
| 试验周期 Period: | 2024 年 03 月 23 日- 2024 年 04 月 14 日 |

结果汇总 Result Summary:

| 检测项目 Test Item | 测试结果 Result |
|---|---|
| Group K | Pass |

| 核准Approved By: | 审核Checked By: | 实验员Tested By: |
|---|---|---|
| 乔洪良 | 涂鑫 | 黄继检 |

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# 检 测 报 告
# Test Report



测试步骤 Test Sequence:

| 测试顺序 Testing Sequence | 设备名称 Equipment Name | 编号/型号 Model | 校准有效日期 Last Calibrated |
|---|---|---|---|
| Examination Of Product | Visual | / | / |
| Low Level Contact Resistance | Micro-Ohmmeter | TH2512B | 2025/5/6 |
| High Temperature Life Test | High Temperature Oven | RHDM-453 | 2025/12/11 |

测试条件和要求Test Condition and Requirements:

| 测试项目Test Item | 测试条件Test Conditions | 测试要求Test Requirements |
|---|---|---|
| Examination Of Product | Visually, functionally inspected per applicable product drawing. Use magnifier or microscope if necessary (Reference:EIA-364-18B) | Visual inspection samples shall be free from defect such as damage, deformation, blister and burrs that are detrimental to the function and appearance. |
| Low Level Contact Resistance Test | Subject mated connectors in conduction of open circuit voltage 20mV DC max., 100mA max. Except wire conductor resistance (Reference:EIA-364-23C) ; | Contact:30mΩ Max. Shell:50mΩ Max |
| High Temperature Life Test | Store in the chamber of temperature:85℃ for 250hours,Upon completion of the test, specimens shall be conditioned at ambient room conditions for 1 to 2 hours , after which the specified measurements shall be performed (Reference:EIA-364-17C) | 1.Appearance:No damage; 2.Contact:Change from initial value 30mΩ Max.;Shell:Change from initial value: 50mΩ Max.; |

试验结果记录Test/inspection Records:

1.Examination Of Product:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

2.Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 20.56 | 19.35 | 17.92 | 18.11 | 16.95 |
| 2 | 16.28 | 15.73 | 17.52 | 18.37 | 19.74 |
| 3 | 18.89 | 20.94 | 15.63 | 16.01 | 15.97 |
| 4 | 19.39 | 17.60 | 19.48 | 19.34 | 20.91 |
| 5 | 20.48 | 16.21 | 15.72 | 15.01 | 20.51 |
| 6 | 16.43 | 16.96 | 19.93 | 17.17 | 20.09 |

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 7 | 16.18 | 15.84 | 17.37 | 15.47 | 18.70 |
| 8 | 20.96 | 20.81 | 16.54 | 17.85 | 16.08 |
| 9 | 20.08 | 20.89 | 19.79 | 19.84 | 19.57 |
| 10 | 16.76 | 19.76 | 15.44 | 18.47 | 15.35 |
| 11 | 20.03 | 15.58 | 16.01 | 15.52 | 16.88 |
| 12 | 18.43 | 15.26 | 18.82 | 19.30 | 20.89 |
| 13 | 19.01 | 15.63 | 15.10 | 15.13 | 17.91 |
| 14 | 16.19 | 15.18 | 17.33 | 20.62 | 17.59 |
| 15 | 17.80 | 17.17 | 16.30 | 15.81 | 18.09 |
| 16 | 20.55 | 16.09 | 17.52 | 17.55 | 20.87 |
| 17 | 17.51 | 17.09 | 18.74 | 20.49 | 17.49 |
| 18 | 19.05 | 16.93 | 20.16 | 17.15 | 19.50 |
| 19 | 19.68 | 19.13 | 16.96 | 20.17 | 15.62 |
| 20 | 18.29 | 16.87 | 17.23 | 19.87 | 15.74 |
| Shell | 2.32 | 2.31 | 2.43 | 2.37 | 2.39 |
| Result | Pass | Pass | Pass | Pass | Pass |

3.After High Temperature Life Test:

| Sample / Item | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

4.After High Temperature Life Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 1 | 18.62 | 15.30 | 20.41 | 20.63 | 16.68 |
| 2 | 17.93 | 15.15 | 19.02 | 17.88 | 15.74 |
| 3 | 17.20 | 19.05 | 17.39 | 19.47 | 17.84 |
| 4 | 15.54 | 16.15 | 18.06 | 18.85 | 16.94 |
| 5 | 17.63 | 16.08 | 15.06 | 19.08 | 20.00 |
| 6 | 17.40 | 15.50 | 16.56 | 19.24 | 20.02 |
| 7 | 15.40 | 17.87 | 20.55 | 18.63 | 18.36 |
| 8 | 15.25 | 16.20 | 19.04 | 18.12 | 16.92 |
| 9 | 15.07 | 18.90 | 19.45 | 15.75 | 16.86 |
| 10 | 15.56 | 18.84 | 18.32 | 16.51 | 16.89 |
| 11 | 19.80 | 20.75 | 15.38 | 20.91 | 15.73 |
| 12 | 20.67 | 20.64 | 16.83 | 19.80 | 16.96 |

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 13 | 19.68 | 15.60 | 19.28 | 18.33 | 20.62 |
| 14 | 17.15 | 16.27 | 16.15 | 20.57 | 15.44 |
| 15 | 19.50 | 20.43 | 20.49 | 19.68 | 20.39 |
| 16 | 19.49 | 20.23 | 18.86 | 15.34 | 16.52 |
| 17 | 19.60 | 18.75 | 17.87 | 19.99 | 16.39 |
| 18 | 20.75 | 16.27 | 19.39 | 18.80 | 15.76 |
| 19 | 15.99 | 18.62 | 16.44 | 15.88 | 16.97 |
| 20 | 20.91 | 16.64 | 17.87 | 20.90 | 19.80 |
| Shell | 2.43 | 2.41 | 2.39 | 2.47 | 2.46 |

5.Change Before And After Low Level Contac Rresistance(Unit:mΩ):

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 1 | 1.94 | 4.05 | 2.49 | 2.52 | 0.27 |
| 2 | 1.65 | 0.58 | 1.50 | 0.49 | 4.00 |
| 3 | 1.69 | 1.89 | 1.76 | 3.46 | 1.87 |
| 4 | 3.85 | 1.45 | 1.42 | 0.49 | 3.97 |
| 5 | 2.85 | 0.13 | 0.66 | 4.07 | 0.51 |
| 6 | 0.97 | 1.46 | 3.37 | 2.07 | 0.07 |
| 7 | 0.78 | 2.03 | 3.18 | 3.16 | 0.34 |
| 8 | 5.71 | 4.61 | 2.50 | 0.27 | 0.84 |
| 9 | 5.01 | 1.99 | 0.34 | 4.09 | 2.71 |
| 10 | 1.20 | 0.92 | 2.88 | 1.96 | 1.54 |
| 11 | 0.23 | 5.17 | 0.63 | 5.39 | 1.15 |
| 12 | 2.24 | 5.38 | 1.99 | 0.50 | 3.93 |
| 13 | 0.67 | 0.03 | 4.18 | 3.20 | 2.71 |
| 14 | 0.96 | 1.09 | 1.18 | 0.05 | 2.15 |
| 15 | 1.70 | 3.26 | 4.19 | 3.87 | 2.30 |
| 16 | 1.06 | 4.14 | 1.34 | 2.21 | 4.35 |
| 17 | 2.09 | 1.66 | 0.87 | 0.50 | 1.10 |
| 18 | 1.70 | 0.66 | 0.77 | 1.65 | 3.74 |
| 19 | 3.69 | 0.51 | 0.52 | 4.29 | 1.35 |
| 20 | 2.62 | 0.23 | 0.64 | 1.03 | 4.06 |
| Shell | 2.42 | 2.38 | 2.42 | 2.43 | 2.30 |
| Result | Pass | Pass | Pass | Pass | Pass |

6.Examination Of Product:

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

# 检 测 报 告
# Test Report



| | |
|---|---|
| 报告编号 Report No.: | VTR24030061-L |
| 产品名称 Product Name: | DP卧式 Connector |
| 产品料号 Part No.: | 109010922 |
| 样品数量 Sample Quantity: | 5Pcs |
| 试验环境 Environment: | 温度Temperature: 24 ℃ 湿度Humidity：61 %RH |
| 试验周期 Period: | 2024 年 03 月 23 日- 2024 年 04 月 14 日 |

结果汇总 Result Summary:

| 检测项目 Test Item | 测试结果 Result |
|---|---|
| Group L | Pass |

| 核准Approved By: | 审核Checked By: | 实验员Tested By: |
|---|---|---|
| 乔洪良 | 涂鑫 | 黄继检 |

东莞市广业电子有限公司 Dongguan Vast Electronics Co.,Ltd
广东省东莞市虎门镇捷南路881号
No.881, Jienan Road, Humen Town, Dongguan City, Guangdong Province

# 检 测 报 告
# Test Report



测试步骤 Test Sequence:

| 测试顺序<br>Testing Sequence | 设备名称<br>Equipment Name | 编号/型号<br>Model | 校准有效日期<br>Last Calibrated |
|---|---|---|---|
| Examination Of Product | Visual | / | / |
| Low Level Contact Resistance | Micro-Ohmmeter | TH2512B | 2025/5/6 |
| Thermal Aging Test | High Temperature Oven | RHDM-453 | 2025/12/11 |

测试条件和要求Test Condition and Requirements:

| 测试项目Test Item | 测试条件Test Conditions | 测试要求Test Requirements |
|---|---|---|
| Examination Of Product | Visually, functionally inspected per applicable product drawing. Use magnifier or microscope if necessary (Reference:EIA-364-18B) | Visual inspection samples shall be free from defect such as damage, deformation, blister and burrs that are detrimental to the function and appearance. |
| Low Level Contact Resistance Test | Subject mated connectors in conduction of open circuit voltage 20mV DC max., 100mA max. Except wire conductor resistance (Reference:EIA-364-23C) ; | Contact:30mΩ Max.<br>Shell:50mΩ Max |
| Thermal Aging Test | Store in the chamber of temperature:105℃ for 250hours,Upon completion of the test, specimens shall be conditioned at ambient room conditions for 1 to 2 hours , after which the specified measurements shall be performed | 1.Appearance:No damage;<br>2.Contact:Change from initial value 30mΩ Max.;Shell:Change from initial value: 50mΩ Max.; |

试验结果记录Test/inspection Records:

1.Examination Of Product:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

2.Low Level Contact Resistance Test(Unit:mΩ):

| Sample / Pin. | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| 1 | 19.13 | 17.28 | 18.11 | 18.90 | 17.95 |
| 2 | 18.52 | 19.05 | 16.55 | 15.17 | 19.37 |
| 3 | 18.10 | 20.45 | 17.48 | 15.12 | 18.84 |
| 4 | 20.25 | 17.62 | 18.69 | 15.06 | 17.89 |
| 5 | 20.13 | 20.11 | 17.09 | 16.70 | 15.87 |

# 检 测 报 告
# Test Report



| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 6 | 16.66 | 20.93 | 18.85 | 15.60 | 18.30 |
| 7 | 15.96 | 15.24 | 16.88 | 18.24 | 17.47 |
| 8 | 20.67 | 16.28 | 18.98 | 19.19 | 17.16 |
| 9 | 16.28 | 15.85 | 16.25 | 16.07 | 17.71 |
| 10 | 16.38 | 15.44 | 19.72 | 17.56 | 16.22 |
| 11 | 15.20 | 16.80 | 15.27 | 17.38 | 16.28 |
| 12 | 17.64 | 15.16 | 15.75 | 17.91 | 19.70 |
| 13 | 15.76 | 18.78 | 18.56 | 17.34 | 20.43 |
| 14 | 16.07 | 15.97 | 15.66 | 15.52 | 19.21 |
| 15 | 18.23 | 17.01 | 16.52 | 15.48 | 15.59 |
| 16 | 18.92 | 16.40 | 18.46 | 18.64 | 19.40 |
| 17 | 16.85 | 15.31 | 18.69 | 16.49 | 17.62 |
| 18 | 19.58 | 18.59 | 15.17 | 18.54 | 18.84 |
| 19 | 18.58 | 16.14 | 20.41 | 15.15 | 15.65 |
| 20 | 15.66 | 16.06 | 19.78 | 20.17 | 19.14 |
| Shell | 2.45 | 2.34 | 2.40 | 2.40 | 2.41 |
| Result | Pass | Pass | Pass | Pass | Pass |

3.After High Temperature Life Test:

| Sample / Item | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

4.After High Temperature Life Low Level Contact Resistance Test:(Unit:mΩ):

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 1 | 20.23 | 20.96 | 17.58 | 19.09 | 19.91 |
| 2 | 19.30 | 15.60 | 15.12 | 18.83 | 16.97 |
| 3 | 16.14 | 20.73 | 15.70 | 17.66 | 18.55 |
| 4 | 17.63 | 15.66 | 20.92 | 16.63 | 15.11 |
| 5 | 17.80 | 20.81 | 17.66 | 15.88 | 15.49 |
| 6 | 20.80 | 19.19 | 18.44 | 18.35 | 18.32 |
| 7 | 15.99 | 16.85 | 20.40 | 20.89 | 18.29 |
| 8 | 15.18 | 20.88 | 18.59 | 17.65 | 15.72 |
| 9 | 18.16 | 15.64 | 16.10 | 20.14 | 17.97 |

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 10 | 15.65 | 19.34 | 15.73 | 20.68 | 18.30 |
| 11 | 15.38 | 20.59 | 19.23 | 19.89 | 15.34 |
| 12 | 20.11 | 18.36 | 17.32 | 19.98 | 18.41 |
| 13 | 20.37 | 19.52 | 18.87 | 16.26 | 20.88 |
| 14 | 17.25 | 16.99 | 15.86 | 19.15 | 19.26 |
| 15 | 15.63 | 18.87 | 16.54 | 19.48 | 18.90 |
| 16 | 17.82 | 19.95 | 15.88 | 19.37 | 15.79 |
| 17 | 16.93 | 16.62 | 18.37 | 15.82 | 20.50 |
| 18 | 20.83 | 20.70 | 15.57 | 19.24 | 15.32 |
| 19 | 16.87 | 18.02 | 16.49 | 18.90 | 19.29 |
| 20 | 19.15 | 19.67 | 17.66 | 19.63 | 15.45 |
| Shell | 2.31 | 2.47 | 2.30 | 2.46 | 2.38 |

5.Change Before And After Low Level Contact Resistance(Unit:mΩ):

| Sample / Pin. | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| 1 | 1.10 | 3.68 | 0.53 | 0.19 | 1.96 |
| 2 | 0.78 | 3.45 | 1.43 | 3.66 | 2.40 |
| 3 | 1.96 | 0.28 | 1.78 | 2.54 | 0.29 |
| 4 | 2.62 | 1.96 | 2.23 | 1.57 | 2.78 |
| 5 | 2.33 | 0.70 | 0.57 | 0.82 | 0.38 |
| 6 | 4.14 | 1.74 | 0.41 | 2.75 | 0.02 |
| 7 | 0.03 | 1.61 | 3.52 | 2.65 | 0.82 |
| 8 | 5.49 | 4.60 | 0.39 | 1.54 | 1.44 |
| 9 | 1.88 | 0.21 | 0.15 | 4.07 | 0.26 |
| 10 | 0.73 | 3.90 | 3.99 | 3.12 | 2.08 |
| 11 | 0.18 | 3.79 | 3.96 | 2.51 | 0.94 |
| 12 | 2.47 | 3.20 | 1.57 | 2.07 | 1.29 |
| 13 | 4.61 | 0.74 | 0.31 | 1.08 | 0.45 |
| 14 | 1.18 | 1.02 | 0.20 | 3.63 | 0.05 |
| 15 | 2.60 | 1.86 | 0.02 | 4.00 | 3.31 |
| 16 | 1.10 | 3.55 | 2.58 | 0.73 | 3.61 |
| 17 | 0.08 | 1.31 | 0.32 | 0.67 | 2.88 |
| 18 | 1.25 | 2.11 | 0.40 | 0.70 | 3.52 |
| 19 | 1.71 | 1.88 | 3.92 | 3.75 | 3.64 |
| 20 | 3.49 | 3.61 | 2.12 | 0.54 | 3.69 |
| Shell | 2.48 | 2.37 | 2.38 | 2.34 | 2.45 |
| Result | Pass | Pass | Pass | Pass | Pass |

6.Examination Of Product:

| Item \ Sample | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

# 检 测 报 告
# Test Report



| | |
|---|---|
| **报告编号** Report No.: | VTR24030061-M |
| **产品名称** Product Name: | DP卧式 Connector |
| **产品料号** Part No.: | 109010922 |
| **样品数量** Sample Quantity: | 5Pcs |
| **试验环境** Environment: | 温度Temperature: 24 ℃　　湿度Humidity：61 %RH |
| **试验周期** Period: | 2024 年 03 月 23 日- 2024 年 04 月 14 日 |

**结果汇总 Result Summary:**

| 检测项目 Test Item | 测试结果 Result |
|---|---|
| Group M | Pass |

| 核准Approved By: | 审核Checked By: | 实验员Tested By: |
|---|---|---|
| 乔洪良 | 涂鑫 | 黄继检 |

东莞市广业电子有限公司 Dongguan Vast Electronics Co.,Ltd
广东省东莞市虎门镇捷南路881号
No.881, Jienan Road, Humen Town, Dongguan City, Guangdong Province

# 检 测 报 告
# Test Report



测试步骤 Test Sequence:

| 测试顺序<br>Testing Sequence | 设备名称<br>Equipment Name | 编号/型号<br>Model | 校准有效日期<br>Last Calibrated |
|---|---|---|---|
| Examination Of Product | Visual | / | / |
| IR-reflow | Reflow oven | IPC-710A | 2025/10/22 |

测试条件和要求Test Condition and Requirements:

| Test Item | Test Conditions | Test Requirements |
|---|---|---|
| Examination Of Product | Visually, functionally inspected per applicable product drawing. Use magnifier or microscope if necessary (Reference:EIA-364-18B) | Visual inspection samples shall be free from defect such as damage, deformation, blister and burrs that are detrimental to the function and appearance. |
| IR-reflow Test | Temp. 217℃.Max time for 60±0.5 sec. Temp. 230℃.Max time for 50±0.5 sec.Peak temp.260℃.Max time for 10 sec (Reference:EIA-364-56D). | Appearance:No damage |

试验结果记录Test/inspection Records:

1.Examination Of Product:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

2.IR-reflow Test:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

3.Examination Of Product:

| Sample / Item | No.1 | No.2 | No.3 | No.4 | No.5 |
|---|---|---|---|---|---|
| Appearance | OK | OK | OK | OK | OK |
| Result | Pass | Pass | Pass | Pass | Pass |

# Test Report



| | |
|---|---|
| **Company Name shown on Report** | GUANG DONG POLYGRUIMER NEW MATERIAL CO.,LTD |
| **Address** | NO.46,LIAOBU JINFU SECOND ROAD,LIAOBU TOWN,DONGGUAN CITY,GUANGDONG PROVINCE |

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant**

| | |
|---|---|
| Sample Name | LCP BK |
| Model No. | S475、S471、E4008 |
| Sample Received Date | Mar. 4, 2024 |
| Testing Period | Mar. 4, 2024 to Mar. 8, 2024 |

| | |
|---|---|
| **Test Requested** | As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Chlorine (Cl), Bromine (Br) in the submitted sample(s). |
| **Test Method/Test Result(s)** | Please refer to the following page(s). |

Approved by: Hill Zheng Date: Mar. 8, 2024

Hill Zheng
Technical Manager

No. R228412064

# Test Report



**Test Method**

| Tested Item(s) | Test Method | Measured Equipment(s) |
|---|---|---|
| Lead (Pb) | IEC 62321-5:2013 | ICP-OES |
| Cadmium (Cd) | IEC 62321-5:2013 | ICP-OES |
| Mercury (Hg) | IEC 62321-4:2013+AMD1:2017 CSV | ICP-OES |
| Hexavalent Chromium (Cr(VI)) | IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013 | UV-Vis/ICP-OES |
| Polybrominated Biphenyls (PBBs) | IEC 62321-6:2015 | GC-MS |
| Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321-6:2015 | GC-MS |
| Phthalates (DBP, BBP, DEHP, DIBP) | IEC 62321-8:2017 | GC-MS |
| Chlorine (Cl) | Refer to EN 14582:2016 | IC |
| Bromine (Br) | Refer to EN 14582:2016 | IC |

# Test Report



**Test Result(s)**

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| Lead (Pb) | N.D. | 2 mg/kg |
| Cadmium (Cd) | N.D. | 2 mg/kg |
| Mercury (Hg) | N.D. | 2 mg/kg |
| Hexavalent Chromium (Cr(VI)) | N.D. | 8 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| **Polybrominated Biphenyls (PBBs)** | | |
| Monobromobiphenyl | N.D. | 5 mg/kg |
| Dibromobiphenyl | N.D. | 5 mg/kg |
| Tribromobiphenyl | N.D. | 5 mg/kg |
| Tetrabromobiphenyl | N.D. | 5 mg/kg |
| Pentabromobiphenyl | N.D. | 5 mg/kg |
| Hexabromobiphenyl | N.D. | 5 mg/kg |
| Heptabromobiphenyl | N.D. | 5 mg/kg |
| Octabromobiphenyl | N.D. | 5 mg/kg |
| Nonabromobiphenyl | N.D. | 5 mg/kg |
| Decabromobiphenyl | N.D. | 5 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| **Polybrominated Diphenyl Ethers (PBDEs)** | | |
| Monobromodiphenyl ether | N.D. | 5 mg/kg |
| Dibromodiphenyl ether | N.D. | 5 mg/kg |
| Tribromodiphenyl ether | N.D. | 5 mg/kg |
| Tetrabromodiphenyl ether | N.D. | 5 mg/kg |
| Pentabromodiphenyl ether | N.D. | 5 mg/kg |
| Hexabromodiphenyl ether | N.D. | 5 mg/kg |
| Heptabromodiphenyl ether | N.D. | 5 mg/kg |
| Octabromodiphenyl ether | N.D. | 5 mg/kg |
| Nonabromodiphenyl ether | N.D. | 5 mg/kg |
| Decabromodiphenyl ether | N.D. | 5 mg/kg |

# Test Report



| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| **Phthalates (DBP, BBP, DEHP, DIBP)** | | |
| Dibutyl phthalate (DBP) CAS#:84-74-2 | N.D. | 50 mg/kg |
| Butyl benzyl phthalate (BBP) CAS#:85-68-7 | N.D. | 50 mg/kg |
| Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7 | N.D. | 50 mg/kg |
| Diisobutyl phthalate (DIBP) CAS#:84-69-5 | N.D. | 50 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| Chlorine (Cl) | N.D. | 10 mg/kg |
| Bromine (Br) | N.D. | 10 mg/kg |

**Sample/Part Description**

| No. | CTI Sample ID | Description |
|---|---|---|
| 1 | 001 | Black plastic grains |

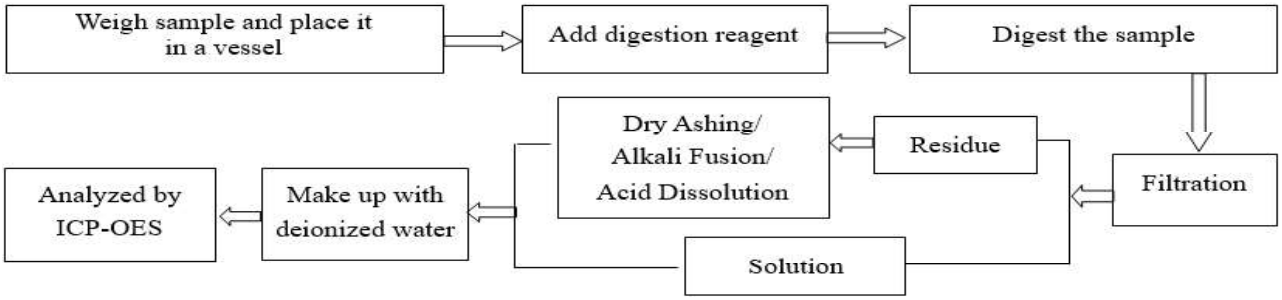
**Remark:** **-The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
**-Information Statement:Different Part No. with different buyer.**
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million
-The test result(s) is(are) presented in reference to the result(s) that reported in A2240104341101001.

# Test Report

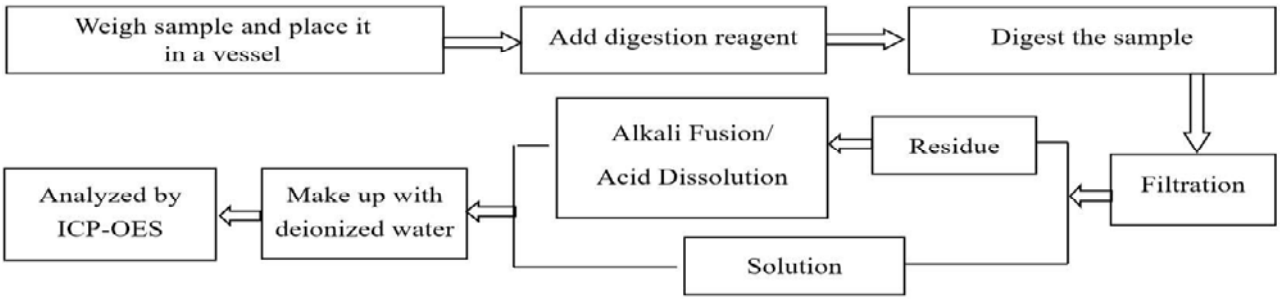


**Test Process**

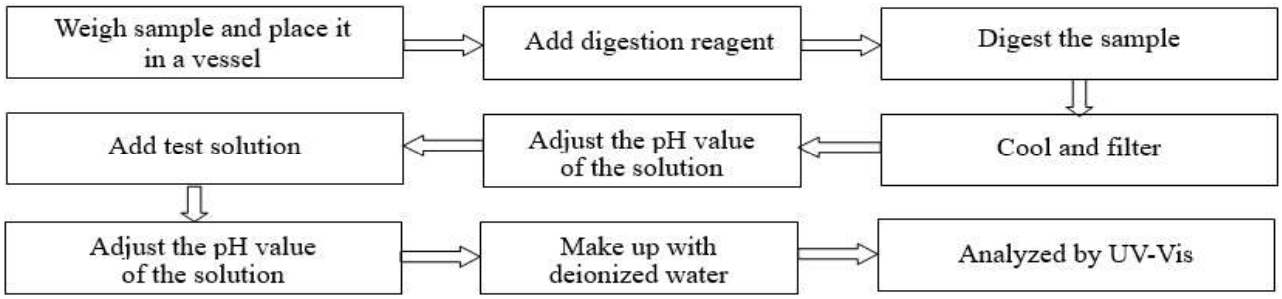
**1. Lead (Pb), Cadmium (Cd), Chromium(Cr)**



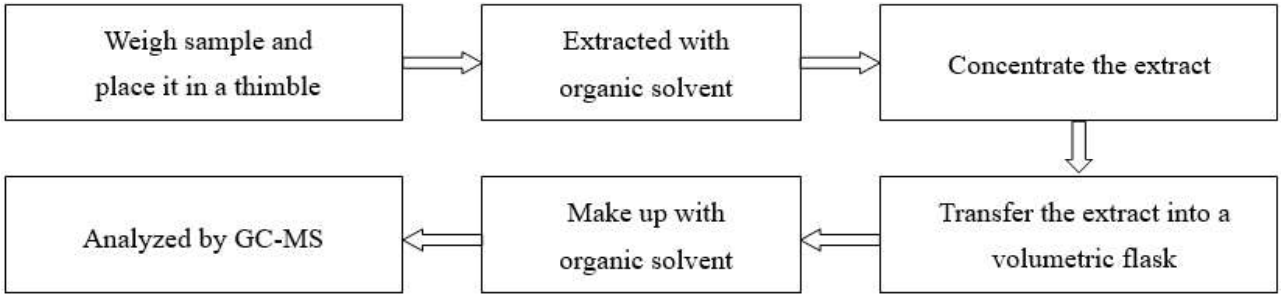

**2. Mercury (Hg)**



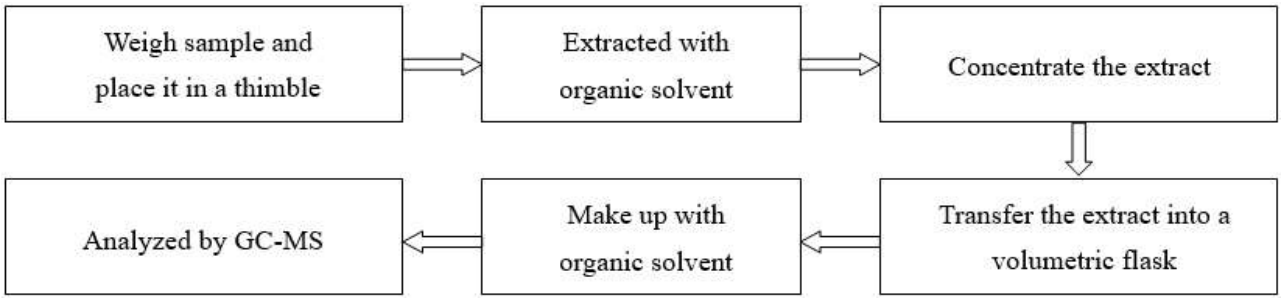

**3. Hexavalent Chromium (Cr(VI))**



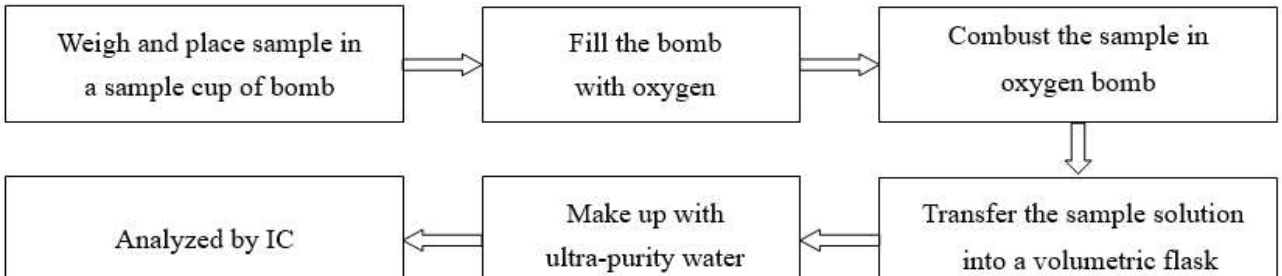

**4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)**



**5. Phthalates (DBP, BBP, DEHP, DIBP)**




**6. Chlorine (Cl), Bromine (Br)**



# Test Report



## Photo(s) of the sample(s)




Statement:

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2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
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*** End of Report ***

# Test Report

Report No. A223066882610100101 Page 1 of 7

| | |
|---|---|
| **Company Name shown on Report** | GUANG DONG POLYGRUIMER NEW MATERIAL CO.,LTD |
| **Address** | NO.46,LIAOBU JINFU SECOND ROAD,LIAOBU TOWN,DONGGUAN CITY,GUANGDONG PROVINCE |

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant**

| | |
|---|---|
| Sample Name | LCP BK |
| Part No. | 6400-G30、6400-G40、6400-MG35、6400-MG40、6400-MG40F、6400-MG50、E130I、E6808、E6807、E471I、E473I、E480I、E481I、6115、MG350、G525T |
| Sample Received Date | Dec. 19, 2023 |
| Testing Period | Dec. 19, 2023 to Dec. 22, 2023 |
| **Test Requested** | As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Chlorine (Cl), Bromine (Br) in the submitted sample(s). |
| **Test Method/Test Result(s)** | Please refer to the following page(s). |

Approved by: Hill Zheng Date: Dec. 22, 2023

Hill Zheng
Technical Manager

No. R228412074

# Test Report



**Test Method**

| Tested Item(s) | Test Method | Measured Equipment(s) |
|---|---|---|
| Lead (Pb) | IEC 62321-5:2013 | ICP-OES |
| Cadmium (Cd) | IEC 62321-5:2013 | ICP-OES |
| Mercury (Hg) | IEC 62321-4:2013+AMD1:2017 CSV | ICP-OES |
| Hexavalent Chromium (Cr(VI)) | IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013 | UV-Vis/ICP-OES |
| Polybrominated Biphenyls (PBBs) | IEC 62321-6:2015 | GC-MS |
| Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321-6:2015 | GC-MS |
| Phthalates (DBP, BBP, DEHP, DIBP) | IEC 62321-8:2017 | GC-MS |
| Chlorine (Cl) | Refer to EN 14582:2016 | IC |
| Bromine (Br) | Refer to EN 14582:2016 | IC |

# Test Report



**Test Result(s)**

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| Lead (Pb) | N.D. | 2 mg/kg |
| Cadmium (Cd) | N.D. | 2 mg/kg |
| Mercury (Hg) | N.D. | 2 mg/kg |
| Hexavalent Chromium (Cr(VI)) | N.D. | 8 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| **Polybrominated Biphenyls (PBBs)** | | |
| Monobromobiphenyl | N.D. | 5 mg/kg |
| Dibromobiphenyl | N.D. | 5 mg/kg |
| Tribromobiphenyl | N.D. | 5 mg/kg |
| Tetrabromobiphenyl | N.D. | 5 mg/kg |
| Pentabromobiphenyl | N.D. | 5 mg/kg |
| Hexabromobiphenyl | N.D. | 5 mg/kg |
| Heptabromobiphenyl | N.D. | 5 mg/kg |
| Octabromobiphenyl | N.D. | 5 mg/kg |
| Nonabromobiphenyl | N.D. | 5 mg/kg |
| Decabromobiphenyl | N.D. | 5 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| **Polybrominated Diphenyl Ethers (PBDEs)** | | |
| Monobromodiphenyl ether | N.D. | 5 mg/kg |
| Dibromodiphenyl ether | N.D. | 5 mg/kg |
| Tribromodiphenyl ether | N.D. | 5 mg/kg |
| Tetrabromodiphenyl ether | N.D. | 5 mg/kg |
| Pentabromodiphenyl ether | N.D. | 5 mg/kg |
| Hexabromodiphenyl ether | N.D. | 5 mg/kg |
| Heptabromodiphenyl ether | N.D. | 5 mg/kg |
| Octabromodiphenyl ether | N.D. | 5 mg/kg |
| Nonabromodiphenyl ether | N.D. | 5 mg/kg |
| Decabromodiphenyl ether | N.D. | 5 mg/kg |

# Test Report



| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| **Phthalates (DBP, BBP, DEHP, DIBP)** | | |
| Dibutyl phthalate (DBP) CAS#:84-74-2 | N.D. | 50 mg/kg |
| Butyl benzyl phthalate (BBP) CAS#:85-68-7 | N.D. | 50 mg/kg |
| Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7 | N.D. | 50 mg/kg |
| Diisobutyl phthalate (DIBP) CAS#:84-69-5 | N.D. | 50 mg/kg |

| Tested Item(s) | Result | MDL |
|---|---|---|
| | 001 | |
| Chlorine (Cl) | N.D. | 10 mg/kg |
| Bromine (Br) | N.D. | 10 mg/kg |

**Sample/Part Description**

| No. | CTI Sample ID | Description |
|---|---|---|
| 1 | 001 | Black plastic grains |

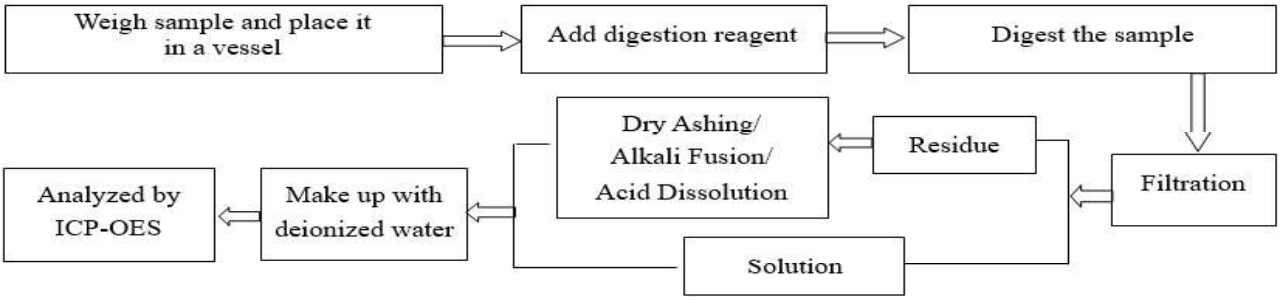
**Remark:** **-The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
**-Information Statement:Different Part No. with different buyer.**
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million
-The test result(s) is(are) presented in reference to the result(s) that reported in A2230668826101001.

# Test Report

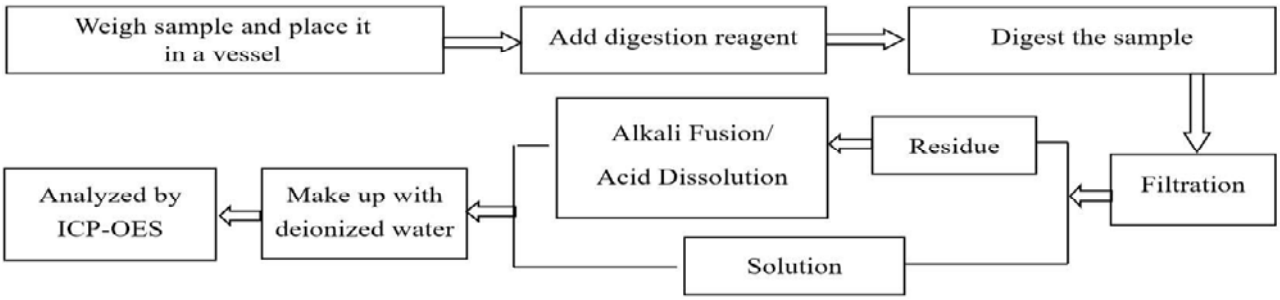


**Test Process**

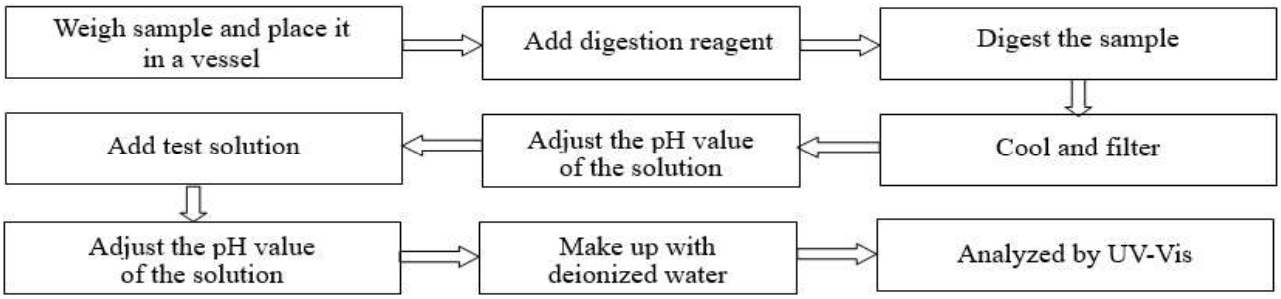
**1. Lead (Pb), Cadmium (Cd), Chromium(Cr)**



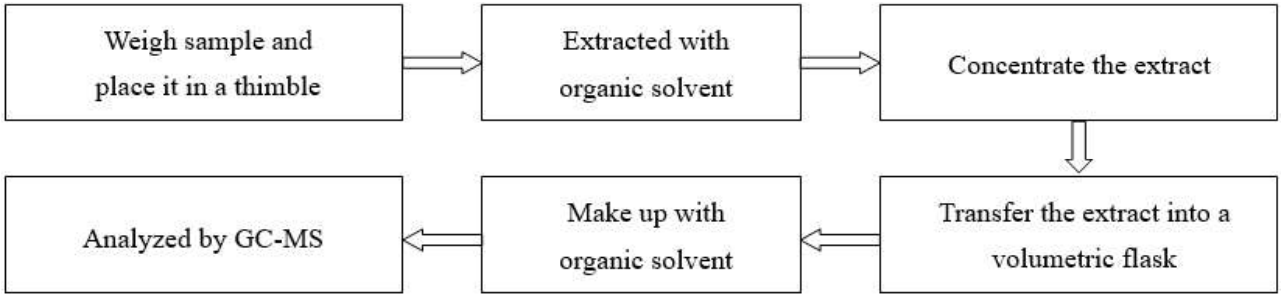

**2. Mercury (Hg)**



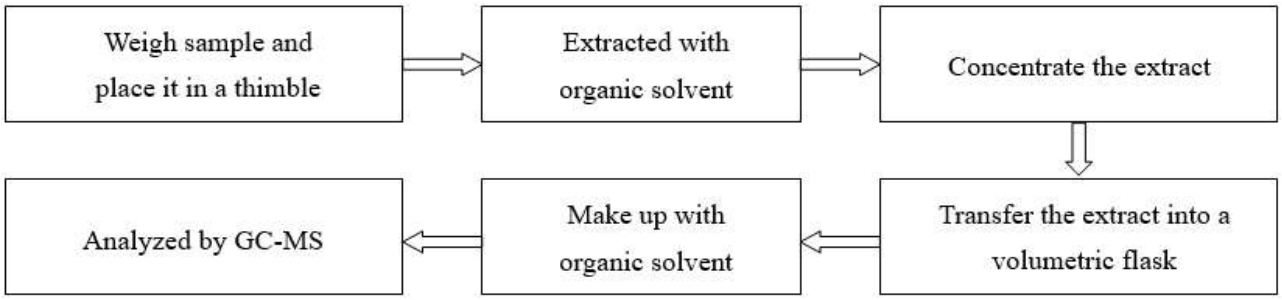

**3. Hexavalent Chromium (Cr(VI))**



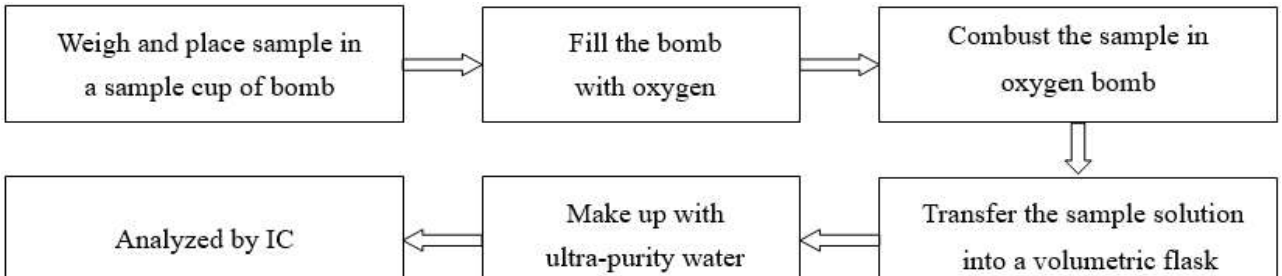

**4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)**



**5. Phthalates (DBP, BBP, DEHP, DIBP)**




**6. Chlorine (Cl), Bromine (Br)**



# Test Report



## Photo(s) of the sample(s)




Statement:

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# Test Report

**No.:** CANEC23016577105 **Date:** Dec 20, 2023 

Client Name: SHANGHAI WU XING COPPER CO.,LTD

Client Address: NO.219,WENGONG ROAD,XINBANG INDUSTRY AREA,SONGJIANGDISTRICT,SHANGHAI

Sample Name: A brass band

Model No.: H65(C2680)

The above sample(s) and information were provided by the client.

---

SGS Job No.: GZP23-022360

Sample Receiving Date: Dec 14, 2023

Testing Period: Dec 14, 2023 ~ Dec 20, 2023

Test Requested: Select test(s) as requested by the client.

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

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

| Test Requirement | Conclusion |
|---|---|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass |

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zm Guan
Approved Signatory

scan to see the report
7CA2175E

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**Test Result(s):**

Test Part Description：

| SN ID | Sample No. | SGS Sample ID | Description |
|---|---|---|---|
| SN1 | A3 | CAN23-0165771-0001.C003 | Brassy metal |

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit(s) | MDL | A3 |
|---|---|---|---|---|
| Cadmium(Cd) | 100 | mg/kg | 2 | ND |
| Lead(Pb) | 1000 | mg/kg | 2 | 14 |
| Mercury(Hg) | 1000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) ▼ | - | μg/cm² | 0.10 | ND |
| Polybromobiphenyl (PBBs) | 1000 | mg/kg | - | ND |
| Monobromobiphenyl (MonoBB) | - | mg/kg | 5 | ND |
| Dibromobiphenyl (DiBB) | - | mg/kg | 5 | ND |
| Tribromobiphenyl (TriBB) | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl (TetraBB) | - | mg/kg | 5 | ND |
| Pentabromobiphenyl (PentaBB) | - | mg/kg | 5 | ND |
| Hexabromobiphenyl (HexaBB) | - | mg/kg | 5 | ND |
| Heptabromobiphenyl (HeptaBB) | - | mg/kg | 5 | ND |
| Octabromobiphenyl (OctaBB) | - | mg/kg | 5 | ND |
| Nonabromobiphenyl (NonaBB) | - | mg/kg | 5 | ND |
| Decabromobiphenyl (DecaBB) | - | mg/kg | 5 | ND |
| Polybromodiphenyl ether(PBDEs) | 1000 | mg/kg | - | ND |
| Monobromodiphenylether (MonoBDE) | - | mg/kg | 5 | ND |
| Dibromodiphenylether (DiBDE) | - | mg/kg | 5 | ND |
| Tribromodiphenylether (TriBDE) | - | mg/kg | 5 | ND |
| Tetrabromodiphenylether (TetraBDE) | - | mg/kg | 5 | ND |
| Pentabromodiphenylether (PentaBDE) | - | mg/kg | 5 | ND |
| Hexabromodiphenylether (HexaBDE) | - | mg/kg | 5 | ND |
| Heptabromodiphenylether (HeptaBDE) | - | mg/kg | 5 | ND |
| Octabromodiphenylether (OctaBDE) | - | mg/kg | 5 | ND |
| Nonabromodiphenylether (NonaBDE) | - | mg/kg | 5 | ND |
| Decabromodiphenylether (DecaBDE) | - | mg/kg | 5 | ND |
| Dibutyl Phthalate(DBP) | 1000 | mg/kg | 50 | ND |
| Benzyl Butyl Phthalate(BBP) | 1000 | mg/kg | 50 | ND |

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| Test Item(s) | Limit | Unit(s) | MDL | A3 |
|---|---|---|---|---|
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl Phthalate(DIBP) | 1000 | mg/kg | 50 | ND |

**Notes:**

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 μg/cm². The sample coating is considered to contain Cr(VI)

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

检验检测专用章 Inspection & Testing Services

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Technical Services Technical Laboratory

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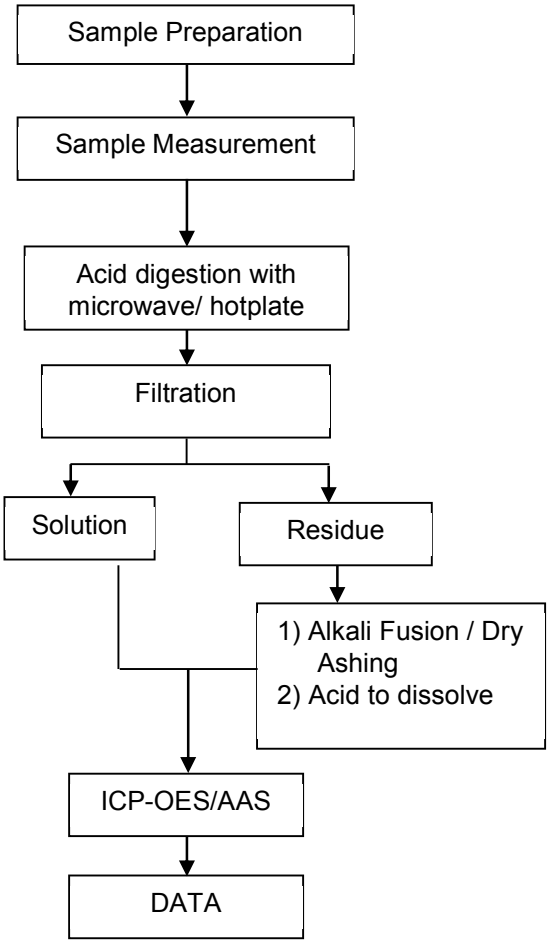
**Elements Testing Flow Chart**

These samples were dissolved totally by pre-conditioning method according to below flow chart.

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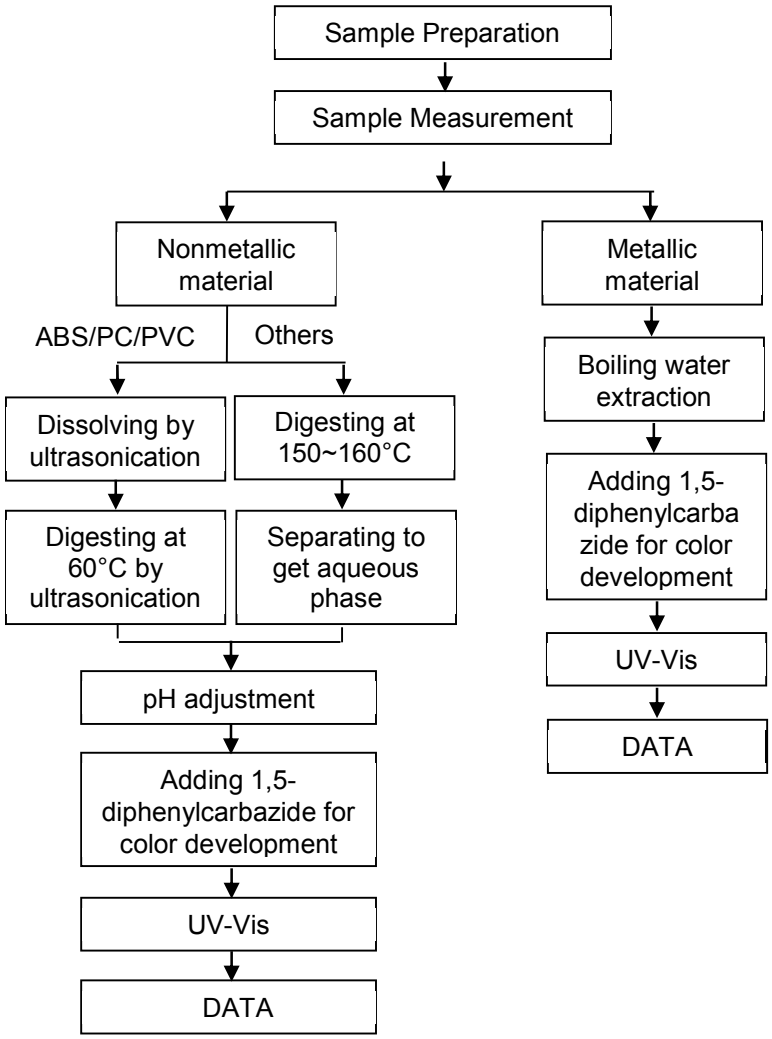
**ATTACHMENTS**

**Hexavalent Chromium (Cr(VI)) Testing Flow Chart**

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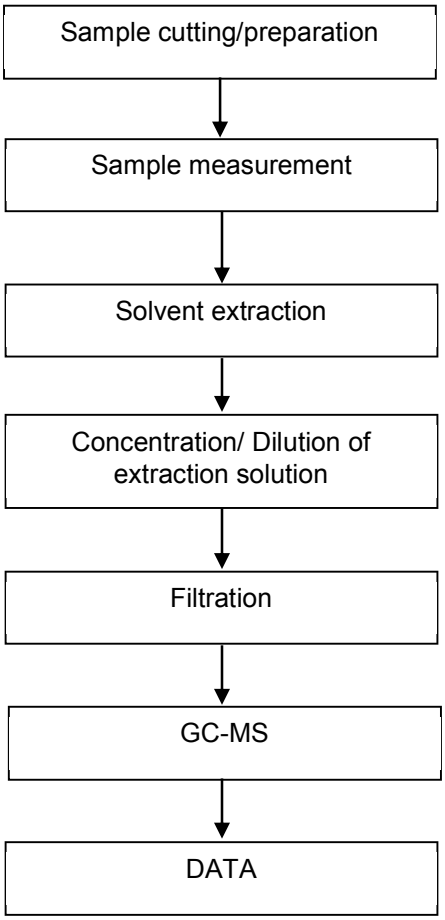
**ATTACHMENTS**

**PBBs/PBDEs Testing Flow Chart**

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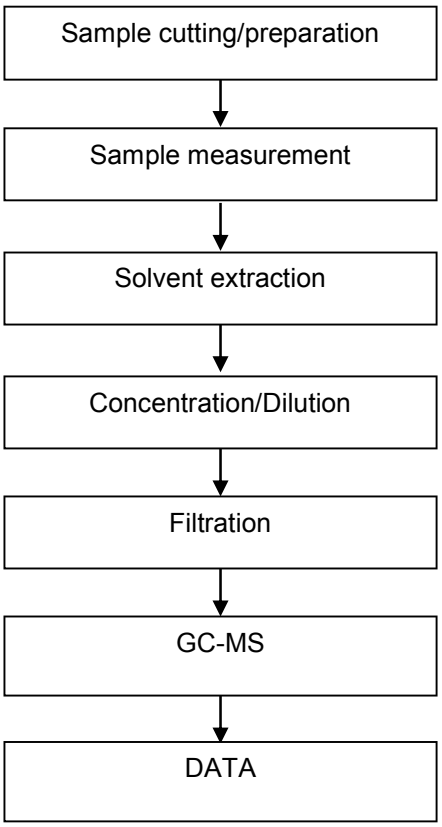
**ATTACHMENTS**

**Phthalates Testing Flow Chart**

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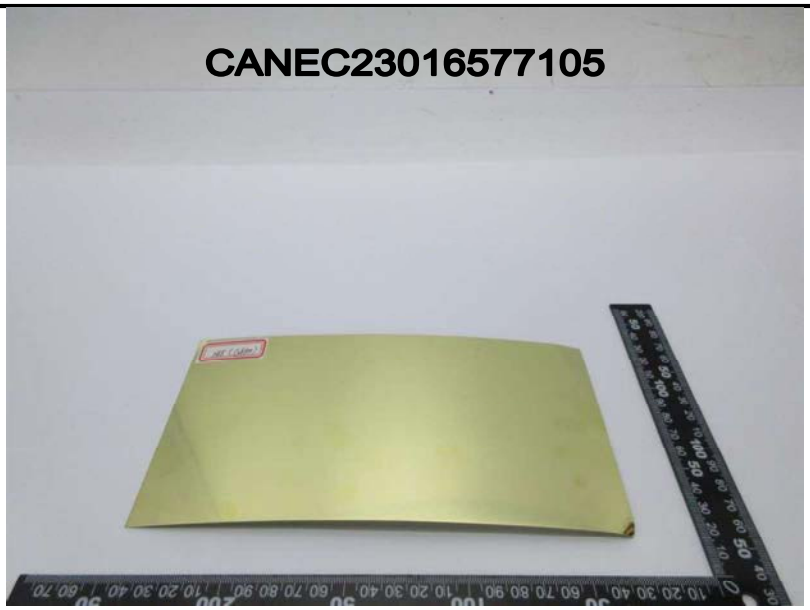
**Sample Photo:**




CAN23-0165771-0001.C003

SGS authenticate the photo on original report only

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# 检测报告
# Test Report

**报告编号** A2240076240101002E
**Report No.** A2240076240101002E



**报告抬头公司名称 Company Name shown on Report** 东莞市建华金属材料有限公司 DONGGUAN JIANHUA METAL MATERIALS CO.,LTD

**地 址 Address** 东莞市长安镇涌头社区德政东路49号 NO.49,DEZHENG EAST ROAD,YONGTOU COMMUNITY,CHANG'AN TOWN,DONGGUAN CITY CHINA

**以下测试之样品及样品信息由申请者提供并确认**
**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant**

| | |
|---|---|
| 样品名称 | SUS304 |
| Sample Name | SUS304 |
| 材料名称 | SUS304 |
| Material | SUS304 |
| 样品接收日期 | 2024.02.20 |
| Sample Received Date | Feb. 20, 2024 |
| 样品检测日期 | 2024.02.20-2024.02.23 |
| Testing Period | Feb. 20, 2024 to Feb. 23, 2024 |

**检测要求 Test Requested** 根据客户要求，对所提交样品中的铅(Pb)，镉(Cd)，汞(Hg)，六价铬(Cr(VI))，多溴联苯(PBBs)，多溴二苯醚(PBDEs)，邻苯二甲酸酯(DBP，BBP，DEHP，DIBP)进行测试。
As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

**检测依据/检测结果 Test Method/Test Result(s)** 请参见下页。
Please refer to the following page(s).

批 准 Approved by 郑晴涛 技术经理 Technical Manager

日 期 Date 2024.02.23

No. R158921500

# 检测报告
# Test Report



**********

**结论 Conclusion**

| 测试样品<br>Tested Sample | 依据标准/指令<br>According to standard/directive | 结果<br>Result |
|---|---|---|
| 提交样品<br>Submitted Sample | 欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863<br>RoHS Directive 2011/65/EU with amendment (EU) 2015/863 | 符合<br>PASS |

**********

符合表示检测结果满足欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863要求的限值。
PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

# 检测报告
# Test Report



**检测依据 Test Method**

| 测试项目<br>Test Item(s) | 测试方法<br>Test Method | 测试仪器<br>Measured Equipment(s) |
|---|---|---|
| 铅<br>Lead (Pb) | IEC 62321-5:2013 | ICP-OES |
| 镉<br>Cadmium (Cd) | IEC 62321-5:2013 | ICP-OES |
| 汞<br>Mercury (Hg) | IEC 62321-4:2013+AMD1:2017 CSV | ICP-OES |
| 六价铬<br>Hexavalent Chromium (Cr(VI)) | IEC 62321-7-1:2015 | UV-Vis |
| 多溴联苯<br>Polybrominated Biphenyls (PBBs)* | IEC 62321-6:2015 | GC-MS |
| 多溴二苯醚<br>Polybrominated Diphenyl Ethers (PBDEs)* | IEC 62321-6:2015 | GC-MS |
| 邻苯二甲酸酯<br>Phthalates (DBP, BBP, DEHP, DIBP)* | IEC 62321-8:2017 | GC-MS |

# 检测报告
# Test Report



**检测结果 Test Result(s)**

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL | 限值 Limit |
|---|---|---|---|
| | 002 | | |
| 铅 Lead (Pb) | N.D. | 2 mg/kg | 1000 mg/kg |
| 镉 Cadmium (Cd) | N.D. | 2 mg/kg | 100 mg/kg |
| 汞 Mercury (Hg) | N.D. | 2 mg/kg | 1000 mg/kg |
| 六价铬 Hexavalent Chromium (Cr(VI)) | N.D. ▼ | 0.10 μg/cm² (LOQ) | 1000 mg/kg |

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL | 限值 Limit |
|---|---|---|---|
| | 002 | | |
| **多溴联苯 Polybrominated Biphenyls (PBBs)*** | | | |
| 一溴联苯 Monobromobiphenyl | N.D. | 5 mg/kg | 1000 mg/kg |
| 二溴联苯 Dibromobiphenyl | N.D. | 5 mg/kg | |
| 三溴联苯 Tribromobiphenyl | N.D. | 5 mg/kg | |
| 四溴联苯 Tetrabromobiphenyl | N.D. | 5 mg/kg | |
| 五溴联苯 Pentabromobiphenyl | N.D. | 5 mg/kg | |
| 六溴联苯 Hexabromobiphenyl | N.D. | 5 mg/kg | |
| 七溴联苯 Heptabromobiphenyl | N.D. | 5 mg/kg | |
| 八溴联苯 Octabromobiphenyl | N.D. | 5 mg/kg | |
| 九溴联苯 Nonabromobiphenyl | N.D. | 5 mg/kg | |
| 十溴联苯 Decabromobiphenyl | N.D. | 5 mg/kg | |

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL | 限值 Limit |
|---|---|---|---|
| | 002 | | |
| **多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)*** | | | |
| 一溴二苯醚 Monobromodiphenyl ether | N.D. | 5 mg/kg | 1000 mg/kg |
| 二溴二苯醚 Dibromodiphenyl ether | N.D. | 5 mg/kg | |
| 三溴二苯醚 Tribromodiphenyl ether | N.D. | 5 mg/kg | |
| 四溴二苯醚 Tetrabromodiphenyl ether | N.D. | 5 mg/kg | |
| 五溴二苯醚 Pentabromodiphenyl ether | N.D. | 5 mg/kg | |
| 六溴二苯醚 Hexabromodiphenyl ether | N.D. | 5 mg/kg | |
| 七溴二苯醚 Heptabromodiphenyl ether | N.D. | 5 mg/kg | |
| 八溴二苯醚 Octabromodiphenyl ether | N.D. | 5 mg/kg | |
| 九溴二苯醚 Nonabromodiphenyl ether | N.D. | 5 mg/kg | |
| 十溴二苯醚 Decabromodiphenyl ether | N.D. | 5 mg/kg | |

# 检测报告
# Test Report



**检测结果 Test Result(s)**

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL | 限值 Limit |
|---|---|---|---|
| | 002 | | |
| **邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)*** | | | |
| 邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)<br>CAS#:84-74-2 | N.D. | 50 mg/kg | 1000 mg/kg |
| 邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP)<br>CAS#:85-68-7 | N.D. | 50 mg/kg | 1000 mg/kg |
| 邻苯二甲酸二(2-乙基)己酯<br>Di-(2-ethylhexyl) phthalate (DEHP)<br>CAS#:117-81-7 | N.D. | 50 mg/kg | 1000 mg/kg |
| 邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)<br>CAS#:84-69-5 | N.D. | 50 mg/kg | 1000 mg/kg |

# 检测报告
# Test Report



**样品/部位描述Sample/Part Description**

| 序号 No. | CTI样品ID CTI Sample ID | 描述 Description |
|---|---|---|
| 1 | 002 | 银色金属 Silvery metal |

**备注:** **对于检测铅，镉，汞之样品已消解完全。**

-N.D. = 未检出（小于方法检出限或定量限）

-mg/kg = ppm = 百万分之一

-1000 mg/kg = 0.1%

-LOQ = 定量限，六价铬的定量限为0.10 μg/cm²

-▼六价铬浓度小于0.10 μg/cm²，样品未检出六价铬。由于未获知样品的存储条件和生产日期，样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

**Remark:** **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²

-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

**注释:** **–“*”表示该项目/方法不在CNAS认可范围内。**

**–本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。**

**Note:** **-“*” indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.**

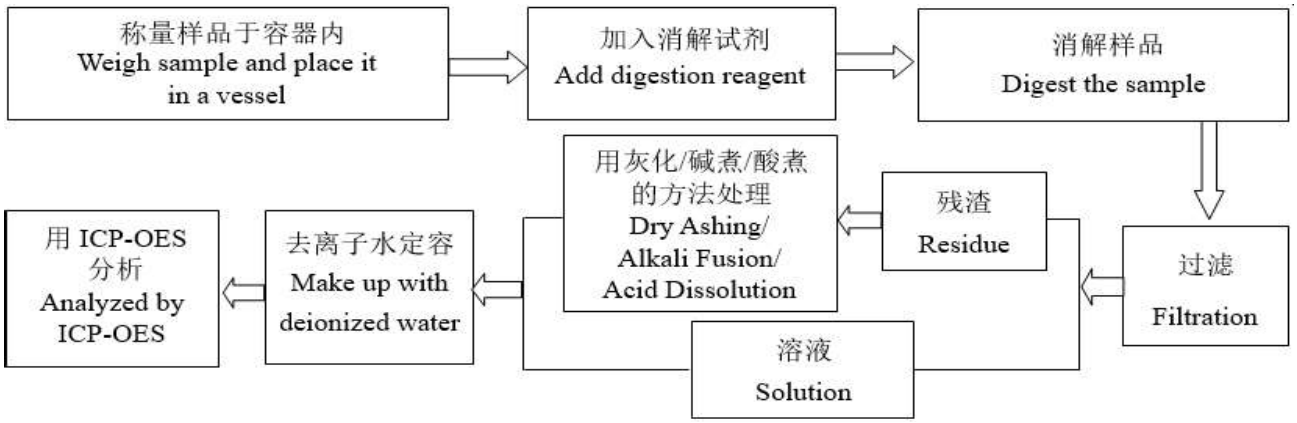
**-The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.**

# 检测报告
# Test Report

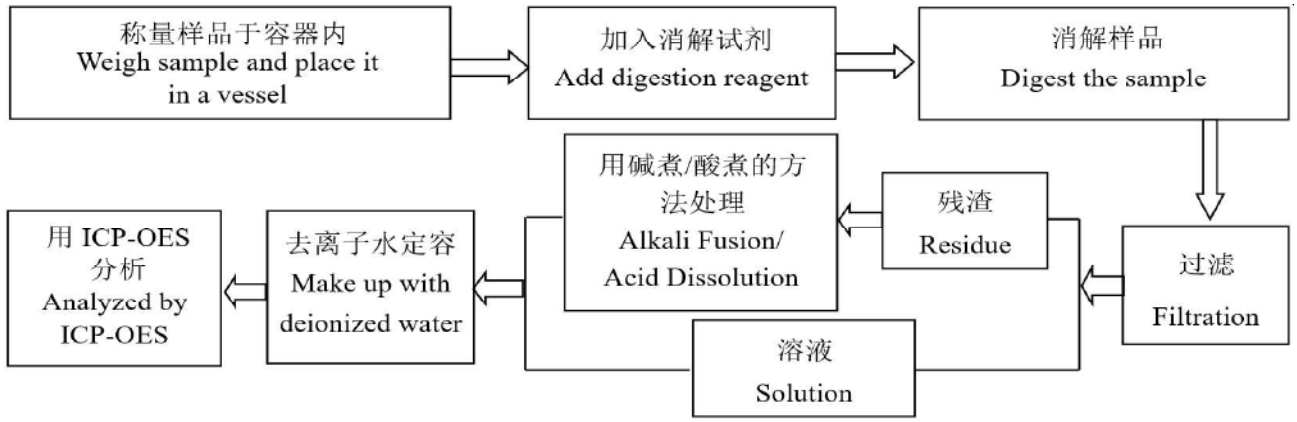


**检测流程 Test Process**

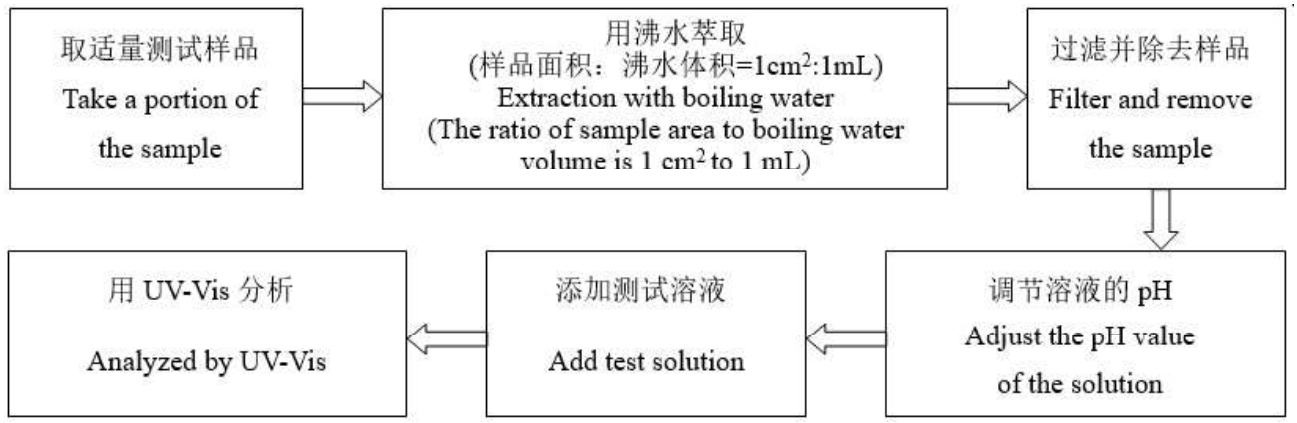
1. **铅(Pb)， 镉(Cd)**
   **Lead (Pb), Cadmium (Cd)**



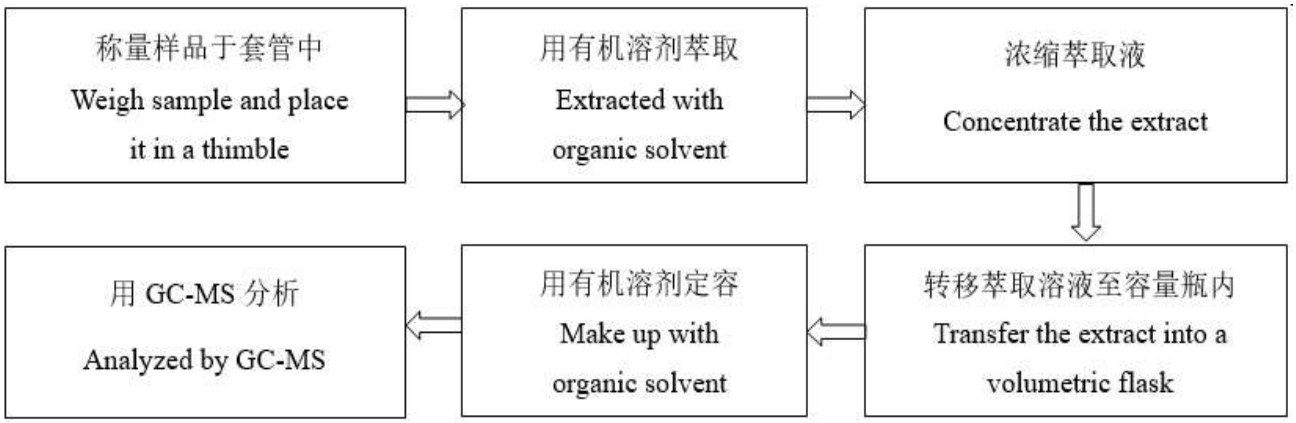

2. **汞(Hg)**
   **Mercury (Hg)**



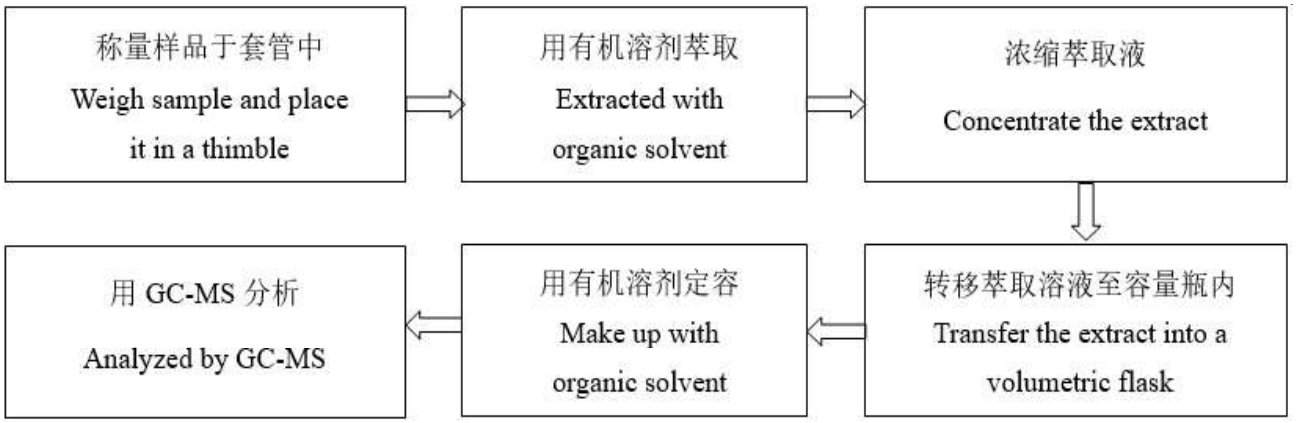

3. **六价铬(Cr(VI))**
   **Hexavalent Chromium (Cr(VI))**



**4. 多溴联苯(PBBs)， 多溴二苯醚(PBDEs)**
**Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)**



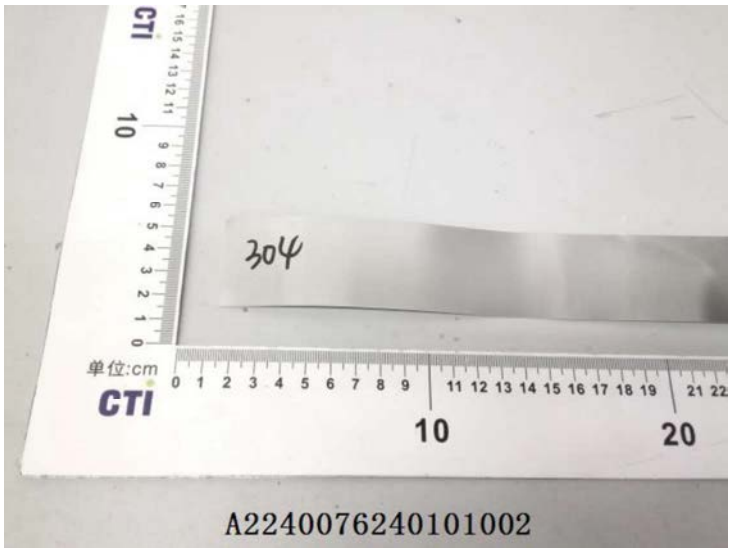

**5. 邻苯二甲酸酯(DBP， BBP， DEHP， DIBP)**
**Phthalates (DBP, BBP, DEHP, DIBP)**



# 检测报告
# Test Report



## 样品图片
## Photo(s) of the sample(s)

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***报告结束***
*** End of report ***

# Test Report

**No.:** CANEC24011132201 **Date:** May 30, 2024 

Client Name: HUIZHOU XINGYU TECHNOLOGY CO., LTD

Client Address: 3/F, BUILDING 401, PLATED BASE, LONGHUA ROAD, LONGXI TOWN, BOLUO COUNTY ,HUIZHOU CITY CHINA

Sample Name: Au plating

The above sample(s) and information were provided by the client.

---

SGS Job No.: GZP24-016669

Sample Receiving Date: May 27, 2024

Testing Period: May 27, 2024 ~ May 29, 2024

Test Requested: Select test(s) as requested by the client.

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

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

| Test Requirement | Conclusion |
|---|---|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass |

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jany Zhong

Jany Zhong
Approved Signatory

scan to see the report
D777BDCF

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**Test Result(s):**

Test Part Description：

| SN ID | Sample No. | SGS Sample ID | Description |
|---|---|---|---|
| SN1 | A1 | CAN24-0111322-0001.C001 | Golden plated metal |

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit(s) | MDL | A1 |
|---|---|---|---|---|
| Lead (Pb) | 1000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | μg/cm² | 0.10 | ND |
| Polybromobiphenyl (PBB) | 1000 | mg/kg | - | ND |
| Monobrominated biphenyl (MonoBB) | - | mg/kg | 5 | ND |
| Dibrominated biphenyl (DiBB) | - | mg/kg | 5 | ND |
| Tribrominated biphenyl (TriBB) | - | mg/kg | 5 | ND |
| Tetrabrominated biphenyl (TetraBB) | - | mg/kg | 5 | ND |
| Pentabrominated biphenyl (PentaBB) | - | mg/kg | 5 | ND |
| Hexabrominated biphenyl (HexaBB) | - | mg/kg | 5 | ND |
| Heptabrominated biphenyl (HeptaBB) | - | mg/kg | 5 | ND |
| Octabrominated biphenyl (OctaBB) | - | mg/kg | 5 | ND |
| Nonabrominated biphenyl (NonaBB) | - | mg/kg | 5 | ND |
| Decabrominated biphenyl (DecaBB) | - | mg/kg | 5 | ND |
| Polybromodiphenyl ether(PBDE) | 1000 | mg/kg | - | ND |
| Monobrominated diphenyl ether (MonoBDE) | - | mg/kg | 5 | ND |
| Dibrominated diphenyl ether (DiBDE) | - | mg/kg | 5 | ND |
| Tribrominated diphenyl ether (TriBDE) | - | mg/kg | 5 | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | - | mg/kg | 5 | ND |
| Pentabrominated diphenyl ether (PentaBDE) | - | mg/kg | 5 | ND |
| Hexabrominated diphenyl ether (HexaBDE) | - | mg/kg | 5 | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | - | mg/kg | 5 | ND |

检验检测专用章 Inspection & Testing Services

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| Test Item(s) | Limit | Unit(s) | MDL | A1 |
|---|---|---|---|---|
| Octabrominated diphenyl ether (OctaBDE) | - | mg/kg | 5 | ND |
| Nonabrominated diphenyl ether (NonaBDE) | - | mg/kg | 5 | ND |
| Decabrominated diphenyl ether (DecaBDE) | - | mg/kg | 5 | ND |
| Bis(2-ethylhexyl) phthalate (DEHP) | 1000 | mg/kg | 50 | ND |
| Butyl benzyl phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Dibutyl phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl phthalate (DIBP) | 1000 | mg/kg | 50 | ND |

**Notes:**

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) ▼ =
a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 μg/cm$^2$. The sample coating is considered to contain Cr(VI).
b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm$^2$). The coating is considered a non-Cr(VI) based coating.
c. The result between 0.10 μg/cm$^2$ and 0.13 μg/cm$^2$ is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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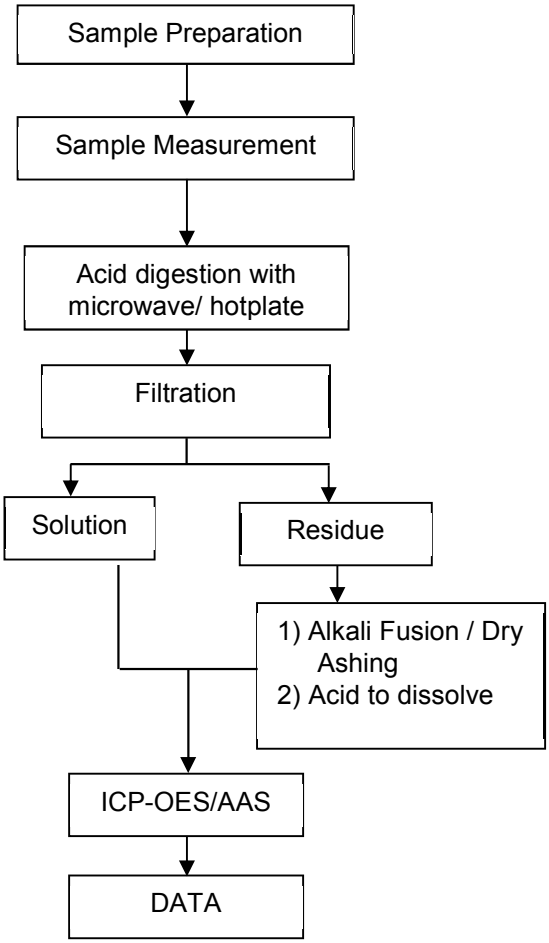
**Elements Testing Flow Chart**

These samples were dissolved totally by pre-conditioning method according to below flow chart.

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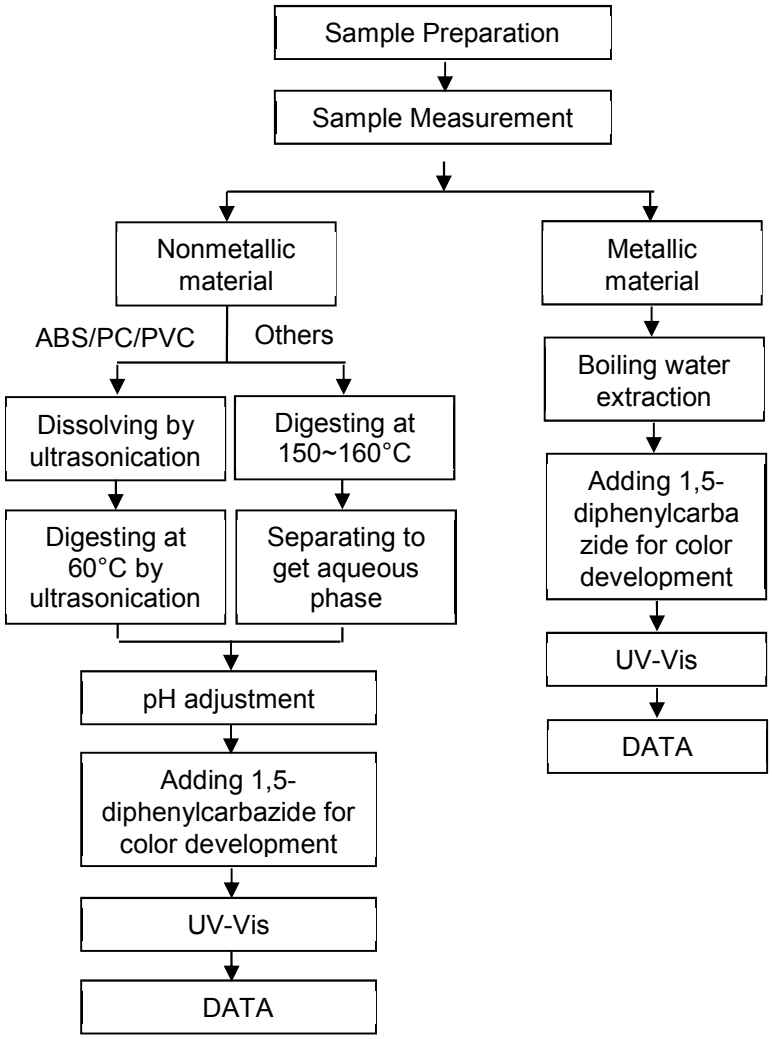
**Hexavalent Chromium (Cr(VI)) Testing Flow Chart**

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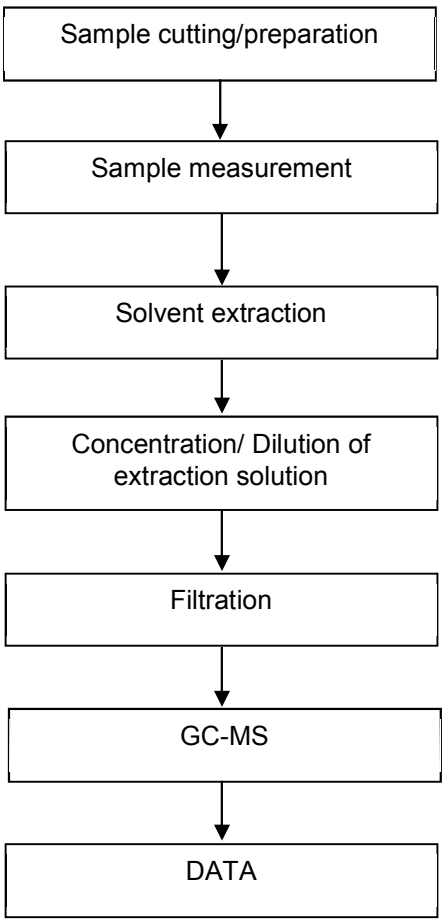
**PBB/PBDE Testing Flow Chart**

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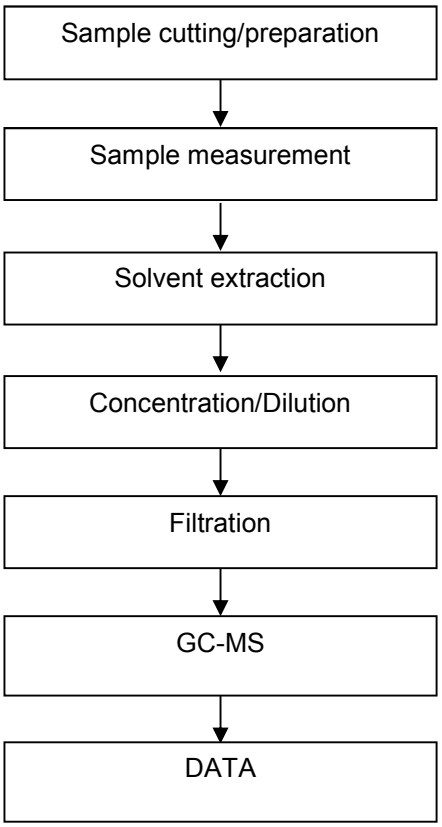
**Phthalates Testing Flow Chart**

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**Sample Photo:**




CAN24-0111322-0001.C001

SGS authenticate the photo on original report only

*** End of Report ***

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# Test Report

**No.:** CANEC24011132203 **Date:** May 30, 2024 

Client Name: HUIZHOU XINGYU TECHNOLOGY CO., LTD

Client Address: 3/F, BUILDING 401, PLATED BASE, LONGHUA ROAD, LONGXI TOWN, BOLUO COUNTY ,HUIZHOU CITY CHINA

Sample Name: Ni plating

The above sample(s) and information were provided by the client.

---

SGS Job No.: GZP24-016669

Sample Receiving Date: May 27, 2024

Testing Period: May 27, 2024 ~ May 29, 2024

Test Requested: Select test(s) as requested by the client.

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

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

| Test Requirement | Conclusion |
|---|---|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass |

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jany Zhong

Jany Zhong
Approved Signatory

scan to see the report

3614D14E

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**Test Result(s):**

Test Part Description：

| SN ID | Sample No. | SGS Sample ID | Description |
|---|---|---|---|
| SN1 | A2 | CAN24-0111322-0001.C002 | Silvery plated metal |

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit(s) | MDL | A2 |
|---|---|---|---|---|
| Lead (Pb) | 1000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | μg/cm² | 0.10 | ND |
| Polybromobiphenyl (PBB) | 1000 | mg/kg | - | ND |
| Monobrominated biphenyl (MonoBB) | - | mg/kg | 5 | ND |
| Dibrominated biphenyl (DiBB) | - | mg/kg | 5 | ND |
| Tribrominated biphenyl (TriBB) | - | mg/kg | 5 | ND |
| Tetrabrominated biphenyl (TetraBB) | - | mg/kg | 5 | ND |
| Pentabrominated biphenyl (PentaBB) | - | mg/kg | 5 | ND |
| Hexabrominated biphenyl (HexaBB) | - | mg/kg | 5 | ND |
| Heptabrominated biphenyl (HeptaBB) | - | mg/kg | 5 | ND |
| Octabrominated biphenyl (OctaBB) | - | mg/kg | 5 | ND |
| Nonabrominated biphenyl (NonaBB) | - | mg/kg | 5 | ND |
| Decabrominated biphenyl (DecaBB) | - | mg/kg | 5 | ND |
| Polybromodiphenyl ether(PBDE) | 1000 | mg/kg | - | ND |
| Monobrominated diphenyl ether (MonoBDE) | - | mg/kg | 5 | ND |
| Dibrominated diphenyl ether (DiBDE) | - | mg/kg | 5 | ND |
| Tribrominated diphenyl ether (TriBDE) | - | mg/kg | 5 | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | - | mg/kg | 5 | ND |
| Pentabrominated diphenyl ether (PentaBDE) | - | mg/kg | 5 | ND |
| Hexabrominated diphenyl ether (HexaBDE) | - | mg/kg | 5 | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | - | mg/kg | 5 | ND |

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| Test Item(s) | Limit | Unit(s) | MDL | A2 |
|---|---|---|---|---|
| Octabrominated diphenyl ether (OctaBDE) | - | mg/kg | 5 | ND |
| Nonabrominated diphenyl ether (NonaBDE) | - | mg/kg | 5 | ND |
| Decabrominated diphenyl ether (DecaBDE) | - | mg/kg | 5 | ND |
| Bis(2-ethylhexyl) phthalate (DEHP) | 1000 | mg/kg | 50 | ND |
| Butyl benzyl phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Dibutyl phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl phthalate (DIBP) | 1000 | mg/kg | 50 | ND |

**Notes:**

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) ▼ =
a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 μg/cm$^2$. The sample coating is considered to contain Cr(VI).
b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm$^2$). The coating is considered a non-Cr(VI) based coating.
c. The result between 0.10 μg/cm$^2$ and 0.13 μg/cm$^2$ is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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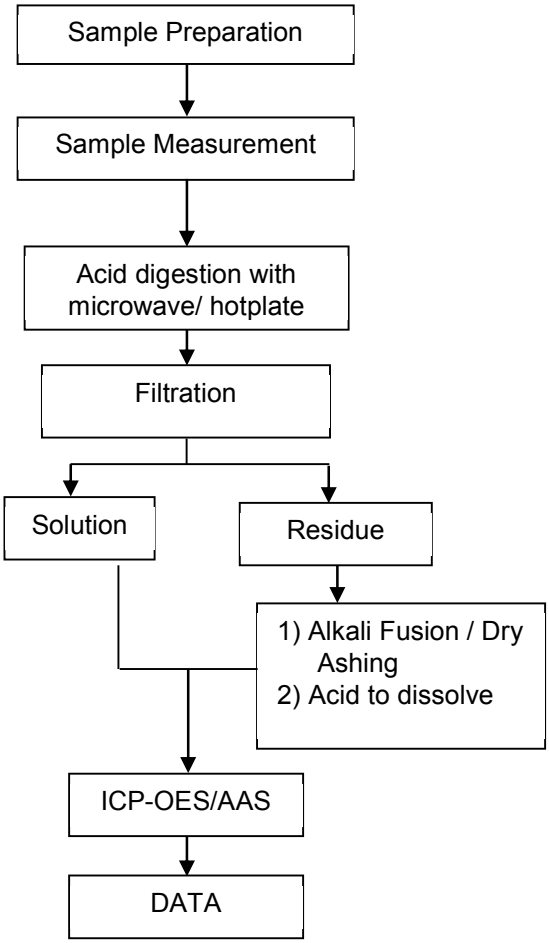
**Elements Testing Flow Chart**

These samples were dissolved totally by pre-conditioning method according to below flow chart.

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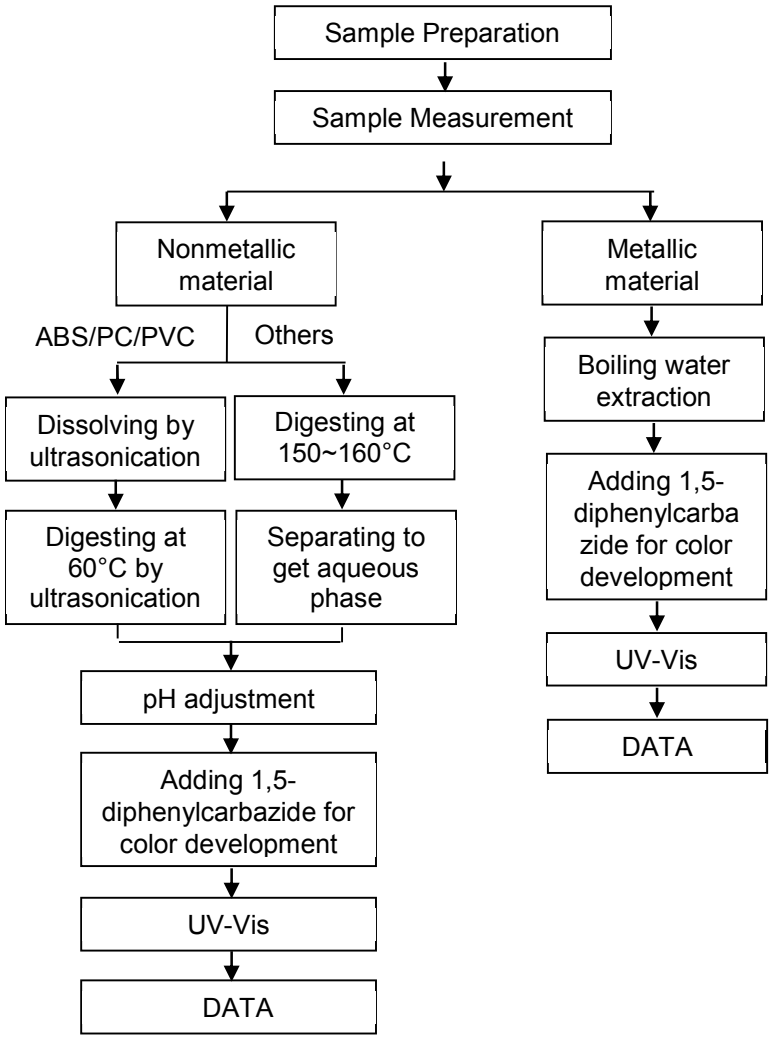
**Hexavalent Chromium (Cr(VI)) Testing Flow Chart**

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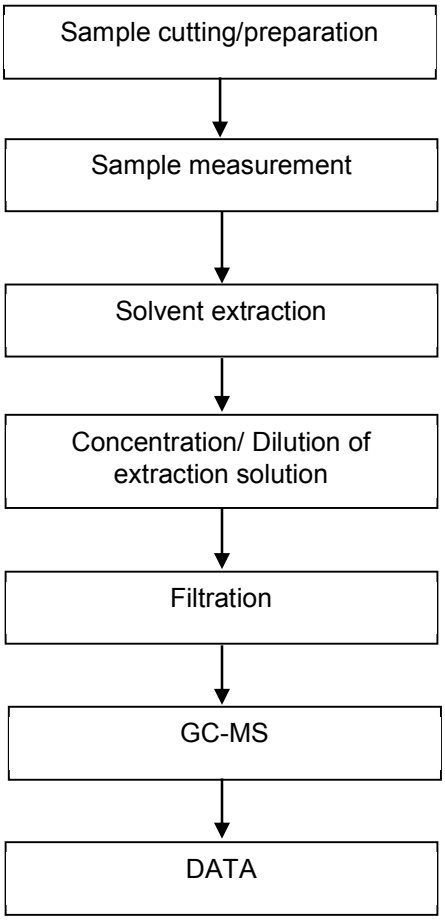
**PBB/PBDE Testing Flow Chart**

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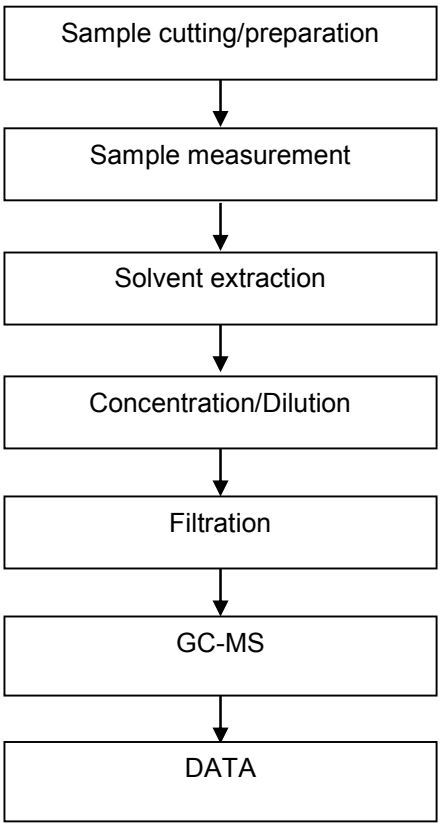
**Phthalates Testing Flow Chart**

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**Sample Photo:**




CAN24-0111322-0001.C002

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# Test Report

**No.:** CANEC24000522701_1 **Date:** Jan 22, 2024 

Client Name: HUIZHOU XINGYU TECHNOLOGY CO., LTD

Client Address: 3 / F, BUILDING 401, PLATED BASE, LONGHUA ROAD, LONGXI TOWN, BOLUO COUNTY ,HUIZHOU CITY CHINA

Sample Name: Misted tin plating

The above sample(s) and information were provided by the client.

---

**THIS REPORT IS TO SUPERSEDE TEST REPORT NO.CANEC24000522701, DATE: Jan 11, 2024.**

SGS Job No.: GZP24-000506

Sample Receiving Date: Jan 08, 2024

Testing Period: Jan 08, 2024 ~ Jan 11, 2024

Test Requested: Select test(s) as requested by the client.

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

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

| Test Requirement | Conclusion |
|---|---|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass |

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Allie Chen

Allie Chen
Approved Signatory

scan to see the report
BCC78C7D

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**Test Result(s):**

Test Part Description：

| SN ID | Sample No. | SGS Sample ID | Description |
|---|---|---|---|
| SN1 | A1 | CAN24-0005227-0001.C001 | Copper-coloured metal with Silver-white plating |

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit(s) | MDL | A1 |
|---|---|---|---|---|
| Lead (Pb) | 1000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | μg/cm² | 0.10 | ND |
| Polybrominated biphenyls (PBB) | 1000 | mg/kg | - | ND |
| Monobrominated biphenyl (MonoBB) | - | mg/kg | 5 | ND |
| Dibrominated biphenyl (DiBB) | - | mg/kg | 5 | ND |
| Tribrominated biphenyl (TriBB) | - | mg/kg | 5 | ND |
| Tetrabrominated biphenyl (TetraBB) | - | mg/kg | 5 | ND |
| Pentabrominated biphenyl (PentaBB) | - | mg/kg | 5 | ND |
| Hexabrominated biphenyl (HexaBB) | - | mg/kg | 5 | ND |
| Heptabrominated biphenyl (HeptaBB) | - | mg/kg | 5 | ND |
| Octabrominated biphenyl (OctaBB) | - | mg/kg | 5 | ND |
| Nonabrominated biphenyl (NonaBB) | - | mg/kg | 5 | ND |
| Decabrominated biphenyl (DecaBB) | - | mg/kg | 5 | ND |
| Polybrominated diphenyl ethers (PBDE) | 1000 | mg/kg | - | ND |
| Monobrominated diphenyl ether (MonoBDE) | - | mg/kg | 5 | ND |
| Dibrominated diphenyl ether (DiBDE) | - | mg/kg | 5 | ND |
| Tribrominated diphenyl ether (TriBDE) | - | mg/kg | 5 | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | - | mg/kg | 5 | ND |
| Pentabrominated diphenyl ether (PentaBDE) | - | mg/kg | 5 | ND |
| Hexabrominated diphenyl ether (HexaBDE) | - | mg/kg | 5 | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | - | mg/kg | 5 | ND |

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| Test Item(s) | Limit | Unit(s) | MDL | A1 |
|---|---|---|---|---|
| Octabrominated diphenyl ether (OctaBDE) | - | mg/kg | 5 | ND |
| Nonabrominated diphenyl ether (NonaBDE) | - | mg/kg | 5 | ND |
| Decabrominated diphenyl ether (DecaBDE) | - | mg/kg | 5 | ND |
| Bis(2-ethylhexyl) phthalate (DEHP) | 1000 | mg/kg | 50 | ND |
| Butyl benzyl phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Dibutyl phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl phthalate (DIBP) | 1000 | mg/kg | 50 | ND |

**Notes:**

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) ▼ =
a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 μg/cm$^2$. The sample coating is considered to contain Cr(VI).
b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm$^2$). The coating is considered a non-Cr(VI) based coating.
c. The result between 0.10 μg/cm$^2$ and 0.13 μg/cm$^2$ is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

This report updates Sample Photo.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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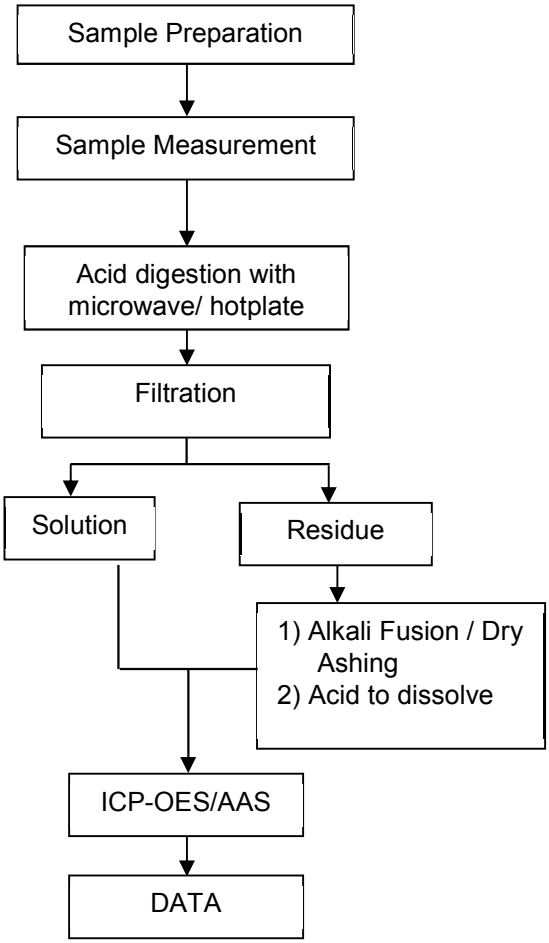
**Elements Testing Flow Chart**

These samples were dissolved totally by pre-conditioning method according to below flow chart.

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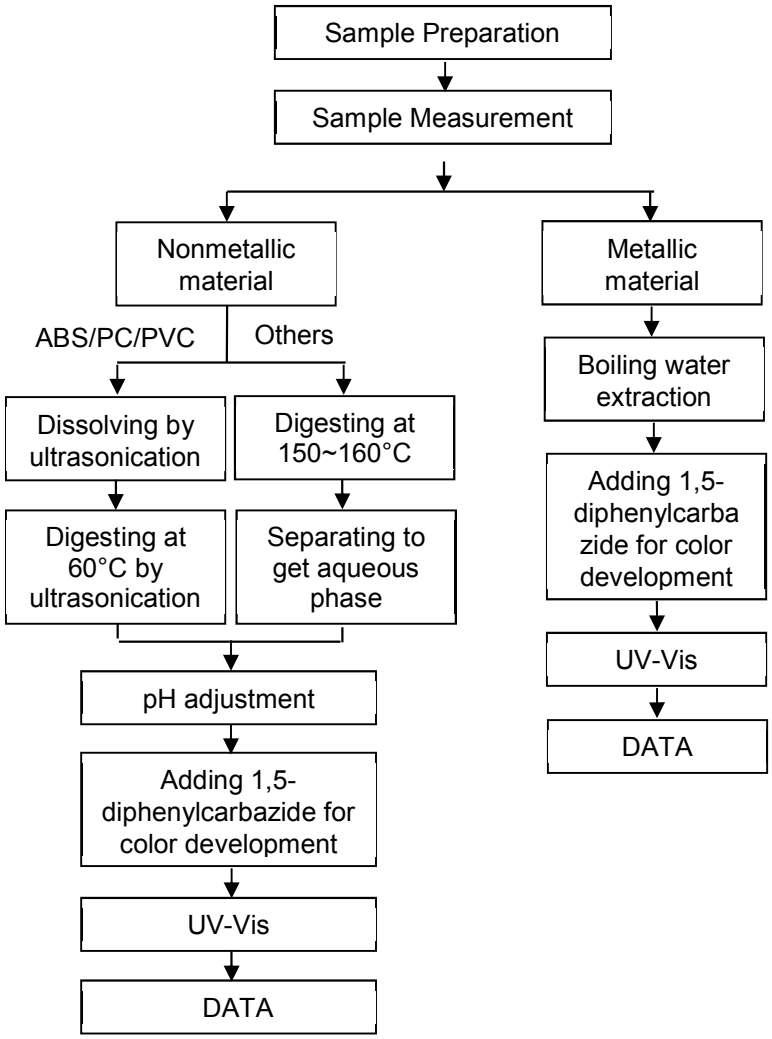
**Hexavalent Chromium (Cr(VI)) Testing Flow Chart**

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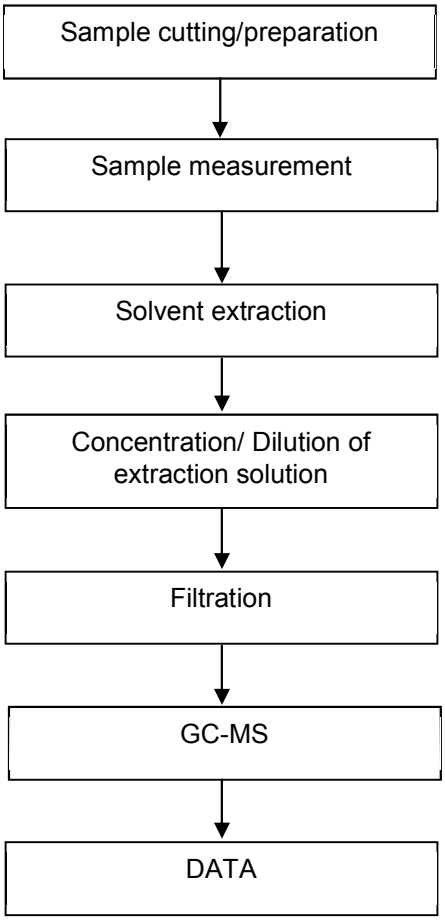
**PBBs/PBDEs Testing Flow Chart**

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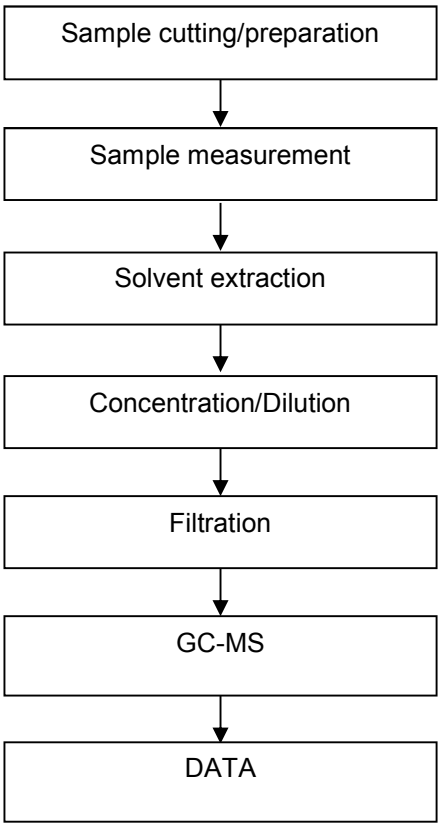
**Phthalates Testing Flow Chart**

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# 检测报告
# Test Report

**报告编号** A224007434610100102E
**Report No.** A224007434610100102E



**报告抬头公司名称** 深圳市多鑫实业有限公司
**Company Name shown on Report** SHENZHEN DUOXIN INDUSTRIAL CO. LTD
**地 址** 宝安区松岗街道江边创业五路多鑫工业园
**Address** DUOXIN INDUSTRIAL PARK, JIANGBIAN CHUANGYE ROAD 5, SONGGANG STREET, BAOAN DISTRICT

**以下测试之样品及样品信息由申请者提供并确认**
**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant**

| | |
|---|---|
| 样品名称 | 镀镍 |
| Sample Name | nickel plating |
| 样品接收日期 | 2024.02.19 |
| Sample Received Date | Feb. 19, 2024 |
| 样品检测日期 | 2024.02.19-2024.02.22 |
| Testing Period | Feb. 19, 2024 to Feb. 22, 2024 |

**检测要求** 根据客户要求，对所提交样品中的铅(Pb)，镉(Cd)，汞(Hg)，六价铬(Cr(VI))，多溴联苯(PBBs)，多溴二苯醚(PBDEs)，邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)进行测试。
**Test Requested** As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

**检测依据/检测结果** 请参见下页。
**Test Method/Test Result(s)** Please refer to the following page(s).

批 准
Approved by 郑晴涛
郑晴涛
技术经理 Technical Manager

日 期
Date 2024.02.22

No. R338851524

华测检测认证集团股份有限公司
Centre Testing International Group Co.,Ltd.
CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China
广东省深圳市宝安区新安街道兴东社区华测检测大楼

# 检测报告
# Test Report



**检测依据 Test Method**

| 测试项目<br>Test Item(s) | 测试方法<br>Test Method | 测试仪器<br>Measured Equipment(s) |
|---|---|---|
| 铅<br>Lead (Pb) | IEC 62321-5:2013 | ICP-OES |
| 镉<br>Cadmium (Cd) | IEC 62321-5:2013 | ICP-OES |
| 汞<br>Mercury (Hg) | IEC 62321-4:2013+AMD1:2017 CSV | ICP-OES |
| 六价铬<br>Hexavalent Chromium (Cr(VI)) | IEC 62321-7-1:2015 | UV-Vis |
| 多溴联苯<br>Polybrominated Biphenyls (PBBs)* | IEC 62321-6:2015 | GC-MS |
| 多溴二苯醚<br>Polybrominated Diphenyl Ethers (PBDEs)* | IEC 62321-6:2015 | GC-MS |
| 邻苯二甲酸酯<br>Phthalates (DBP, BBP, DEHP, DIBP)* | IEC 62321-8:2017 | GC-MS |

# 检测报告
# Test Report



**检测结果 Test Result(s)**

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL |
|---|---|---|
| | 001 | |
| 铅 Lead (Pb) | N.D. | 2 mg/kg |
| 镉 Cadmium (Cd) | N.D. | 2 mg/kg |
| 汞 Mercury (Hg) | N.D. | 2 mg/kg |
| 六价铬 Hexavalent Chromium (Cr(VI)) | N.D. ▼ | 0.10 μg/cm² (LOQ) |

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL |
|---|---|---|
| | 001 | |
| **多溴联苯 Polybrominated Biphenyls (PBBs)*** | | |
| 一溴联苯 Monobromobiphenyl | N.D. | 5 mg/kg |
| 二溴联苯 Dibromobiphenyl | N.D. | 5 mg/kg |
| 三溴联苯 Tribromobiphenyl | N.D. | 5 mg/kg |
| 四溴联苯 Tetrabromobiphenyl | N.D. | 5 mg/kg |
| 五溴联苯 Pentabromobiphenyl | N.D. | 5 mg/kg |
| 六溴联苯 Hexabromobiphenyl | N.D. | 5 mg/kg |
| 七溴联苯 Heptabromobiphenyl | N.D. | 5 mg/kg |
| 八溴联苯 Octabromobiphenyl | N.D. | 5 mg/kg |
| 九溴联苯 Nonabromobiphenyl | N.D. | 5 mg/kg |
| 十溴联苯 Decabromobiphenyl | N.D. | 5 mg/kg |

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL |
|---|---|---|
| | 001 | |
| **多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)*** | | |
| 一溴二苯醚 Monobromodiphenyl ether | N.D. | 5 mg/kg |
| 二溴二苯醚 Dibromodiphenyl ether | N.D. | 5 mg/kg |
| 三溴二苯醚 Tribromodiphenyl ether | N.D. | 5 mg/kg |
| 四溴二苯醚 Tetrabromodiphenyl ether | N.D. | 5 mg/kg |
| 五溴二苯醚 Pentabromodiphenyl ether | N.D. | 5 mg/kg |
| 六溴二苯醚 Hexabromodiphenyl ether | N.D. | 5 mg/kg |
| 七溴二苯醚 Heptabromodiphenyl ether | N.D. | 5 mg/kg |
| 八溴二苯醚 Octabromodiphenyl ether | N.D. | 5 mg/kg |
| 九溴二苯醚 Nonabromodiphenyl ether | N.D. | 5 mg/kg |
| 十溴二苯醚 Decabromodiphenyl ether | N.D. | 5 mg/kg |

# 检测报告
# Test Report



**检测结果 Test Result(s)**

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL |
|---|---|---|
| | 001 | |
| **邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)*** | | |
| 邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)<br>CAS#:84-74-2 | N.D. | 50 mg/kg |
| 邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP)<br>CAS#:85-68-7 | N.D. | 50 mg/kg |
| 邻苯二甲酸二(2-乙基)己酯<br>Di-(2-ethylhexyl) phthalate (DEHP)<br>CAS#:117-81-7 | N.D. | 50 mg/kg |
| 邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)<br>CAS#:84-69-5 | N.D. | 50 mg/kg |

**样品/部位描述Sample/Part Description**

| 序号 No. | CTI样品ID CTI Sample ID | 描述 Description |
|---|---|---|
| 1 | 001 | 有银色镀层的金属<br>Metal with silvery plating |

**备注:** **对于检测铅，镉，汞之样品已消解完全。**
-N.D. = 未检出 (小于方法检出限或定量限)
-mg/kg = ppm = 百万分之一
-1000 mg/kg = 0.1%
-LOQ = 定量限, 六价铬的定量限为 0.10 μg/cm²
-▼六价铬浓度小于 0.10 μg/cm²，样品未检出六价铬。由于未获知样品的存储条件和生产日期，样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。
-根据客户声明，本报告中的报告抬头公司名称与报告 A2240074346101001E 中的报告抬头公司名称为集团公司和分（附属）公司关系，本报告的测试结果引用自报告 A2240074346101001E。

**Remark:** **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL or LOQ)
-mg/kg = ppm = parts per million
-1000 mg/kg = 0.1%
-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.
-According to the client's statement, the Company Name shown on Report in this report and the Company Name shown on Report in the report A2240074346101001E are the Group-Branch relations, the test result(s) of this report is/are presented in reference to the result(s) that reported in A2240074346101001E.

**注释:** **-*表示该项目/方法不在 CNAS 认可范围内。**
**-本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。**

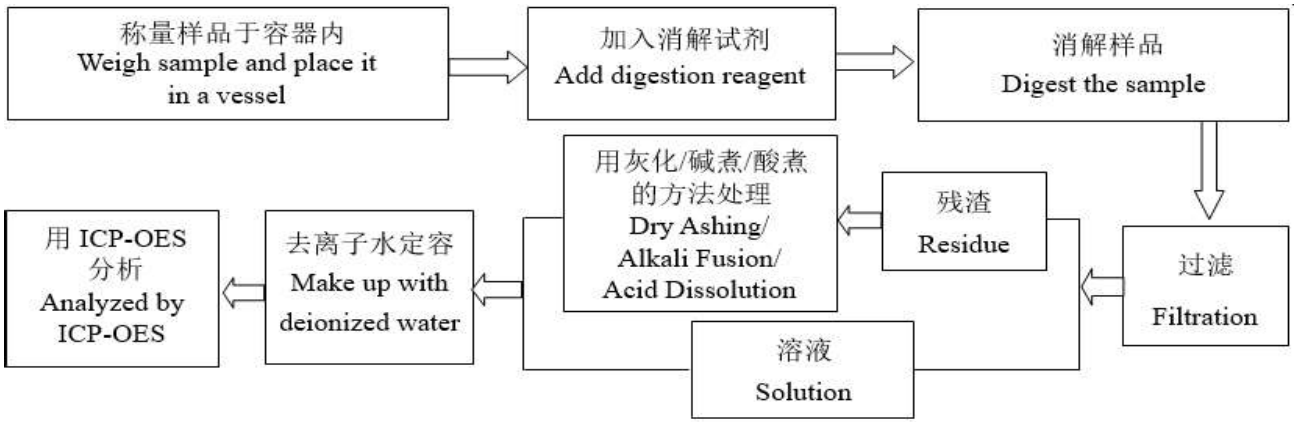
**Note:** **-*Indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.**
**-The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.**

# 检测报告
# Test Report

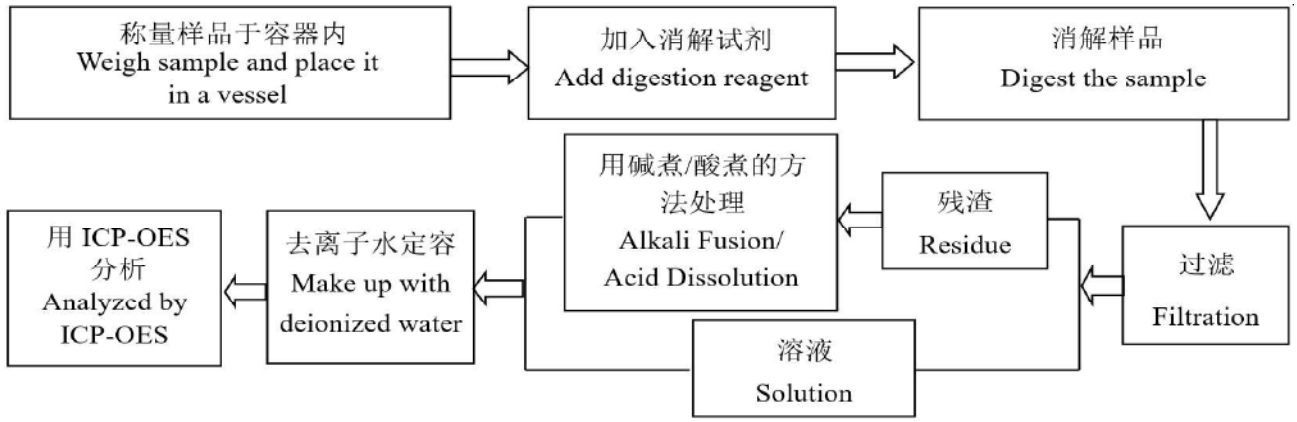


**检测流程 Test Process**

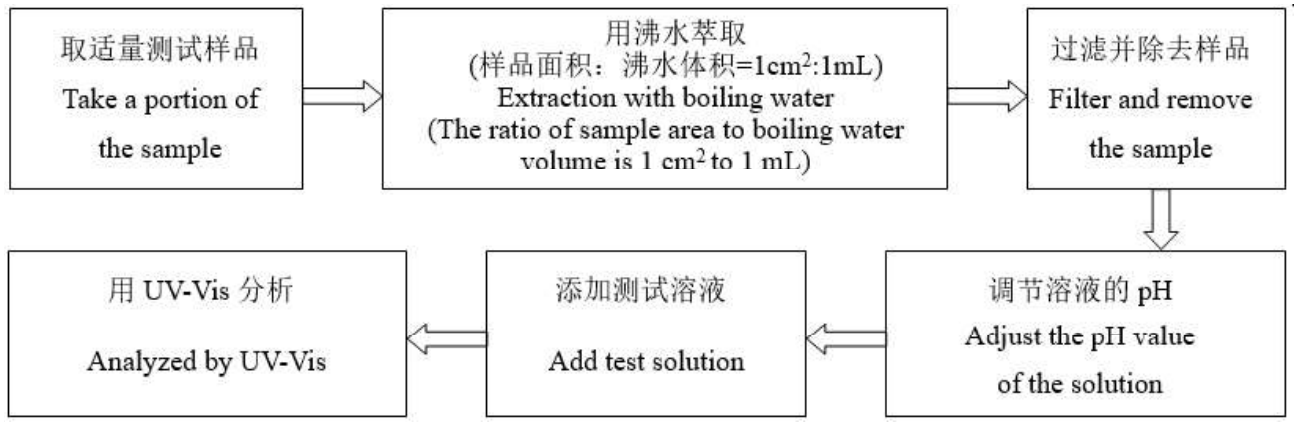
1. **铅(Pb)， 镉(Cd)**
   **Lead (Pb), Cadmium (Cd)**



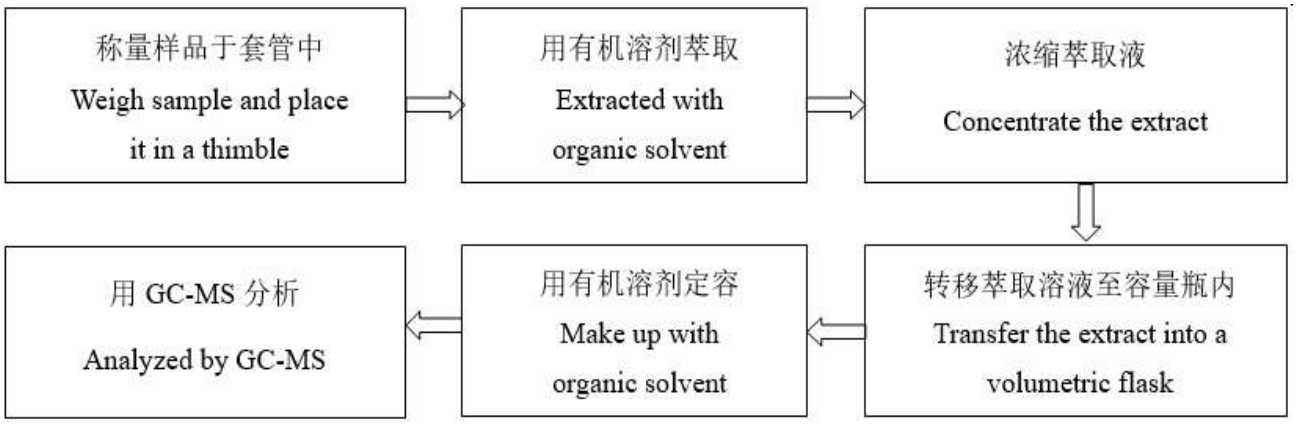

2. **汞(Hg)**
   **Mercury (Hg)**



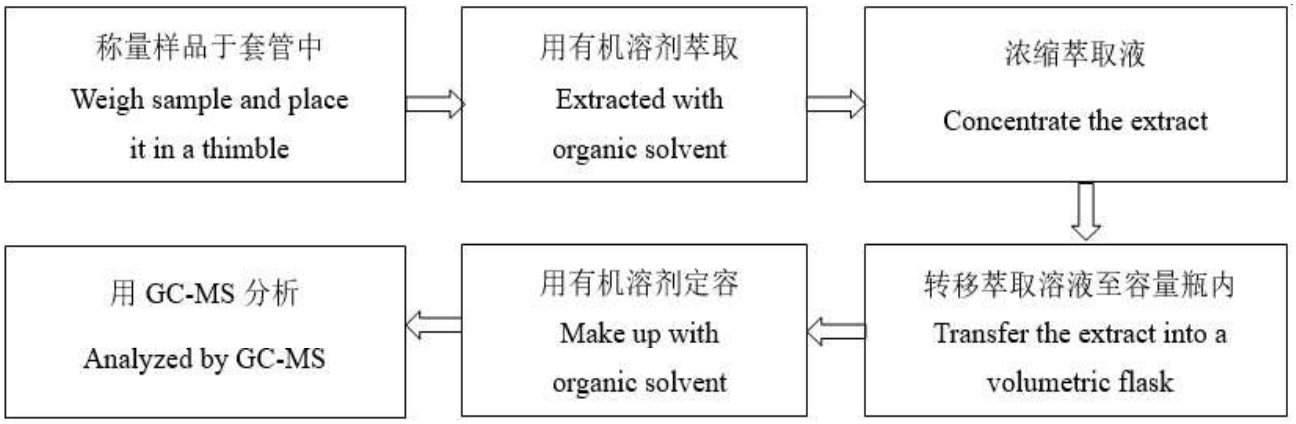

3. **六价铬(Cr(VI))**
   **Hexavalent Chromium (Cr(VI))**



**4. 多溴联苯(PBBs)， 多溴二苯醚(PBDEs)**
**Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)**




**5. 邻苯二甲酸酯(DBP， BBP， DEHP， DIBP)**
**Phthalates (DBP, BBP, DEHP, DIBP)**



# 检测报告
# Test Report



## 样品图片
## Photo(s) of the sample(s)




声明Statement：

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效；
   This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供，申请者应对其真实性负责，CTI未核实其真实性；
   The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn’t verified;
3. 本报告检测结果仅对受测样品负责；
   The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明，报告参照ILAC-G8:09/2019 / CNAS-GL015:2022使用简单接受(w=0)二元判定规则进行符合性判定;
   Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. 未经CTI书面同意，不得部分复制本报告；
   Without written approval of CTI, this report can’t be reproduced except in full;
6. 如检测报告中的英文内容与中文内容有差异，以中文为准。
   In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

***报告结束***
*** End of report ***

# 附录Appendix

**客户参考图片（非测试样品）Client Reference Photo (Non-tested sample)**




**声明Statement:**

1. 附录内容由申请者提供，申请者应对其真实性负责，CTI未核实其真实性。
   The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. 附录内容为A224007434610100102E报告的补充。
   The Appendix Information is/are the supplement(s) for the Report A224007434610100102E.