

检测报告 Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第 1 页 共 16 页
Page 1 of 16

申请单位 惠州市興利業精密電子廠有限公司[敬業電子(惠州)有限公司]
Applicant BENNIC COMPONENTS
地 址 廣東省惠州市惠城區惠風西四路82號(平南工業園50號小區)
Address 82, HUI FENG XI SI ROAD, HUIZHOU, GUANG DONG PROVIENCE

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 client

成品名称	请参见下页
Finished Product Name	Please refer to the following page
样品名称 Sample Name(s)	请参见下页 Please refer to the following page
样品接收日期	2014.10.13
Sample Received Date	Oct. 13, 2014
样品检测日期	2014.10.13-2014.10.16
Testing Period	Oct. 13, 2014 to Oct. 16, 2014

检测要求 请参见下页。
Test Requested Please refer to the following page(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).

主 检 Mike
Tested by

审 核 Danna
Reviewed by

批 准 Danny Liu
Approved by

日 期 2014.10.17
Date



Danny Liu
Technical Manager

No. R169562651

深圳市华测检测技术股份有限公司 广东省深圳市宝安区 70 区鸿威工业园
Centre Testing International (Shenzhen) Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

检测报告

Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第 2 页 共 16 页
Page 2 of 16

序号 No.	成品名称 Finished Product Name	样品名称 Sample Name(s)
(1)	塑膠電容器 FILM CAPACITORS	CP 線 TIN PLATE COPPER COVERED STEEL WIRE
(2)		CU 線 TIN PLATE COPPER WIRE
(3)		錫鋅線 TIN-ZINC ALLOY WIRE
(4)		鋅線 ZINC WIRE
(5)		銀線 SILVERY WIRE
(6)		金屬化聚丙烯稀膜 METALLIZED POLYPROPYLENE FILM
(7)		金屬化聚脂膜 METALLIZED POLYESTER FILM
(8)		銀色 UV 油墨 SILVERY INK(UV)
(9)		黑色 UV 油墨 BLACK INK(UV)
(10)		黑色瑪拉膠帶 BLACK COATED TRANSPARENT ADHESIVE PLASTIC TAPE
(11)		黃色瑪拉膠帶 YELLOW COATED TRANSPARENT ADHESIVE PLASTIC TAPE
(12)		白色環氧樹脂 WHITE EPOXY POTTING RESIN
(13)		黃色環氧樹脂 YELLOW EPOXY POTTING RESIN
(14)		黑色環氧樹脂 BLACK EPOXY POTTING RESIN
(15)		棕色環氧樹脂 BROWN EPOXY POTTING RESIN
(16)		塞珠 PLASTIC BEAD

检测报告

Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第 3 页 共 16 页
Page 3 of 16

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)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) in the submitted sample(s).

检测依据 Test Method

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis
	IEC 62321:2008 Ed.1 Annex C	
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result				方法检测限 MDL
	(1)	(2)	(3)	(4)	
铅 Lead (Pb)	N.D.	N.D.	65 mg/kg	31 mg/kg	2 mg/kg
镉 Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	阴性 Negative	阴性 Negative	阴性 Negative	阴性 Negative	/

检测报告

Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第 4 页 共 16 页
Page 4 of 16

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result				方法检测限 MDL
	(5)	(6)	(7)	(8)	
铅 Lead (Pb)	N.D.	N.D.	N.D.	N.D.	2 mg/kg
镉 Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	---	N.D.	N.D.	N.D.	2 mg/kg
	阴性 Negative	---	---	---	/

测试项目 Tested Item(s)	结果 Result				方法检测限 MDL
	(9)	(10)	(11)	(12)	
铅 Lead (Pb)	N.D.	N.D.	N.D.	N.D.	2 mg/kg
镉 Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.	N.D.	2 mg/kg

测试项目 Tested Item(s)	结果 Result				方法检测限 MDL
	(13)	(14)	(15)	(16)	
铅 Lead (Pb)	N.D.	N.D.	N.D.	7 mg/kg	2 mg/kg
镉 Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.	N.D.	2 mg/kg

检测报告

Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第 5 页 共 16 页
Page 5 of 16

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result				方法检测限 MDL
	(6)	(7)	(8)	(9)	
多溴联苯 Polybrominated Biphenyls(PBBs)					
一溴联苯 Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
三溴联苯 Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
四溴联苯 Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
五溴联苯 Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
八溴联苯 Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
九溴联苯 Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
十溴联苯 Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)					
一溴二苯醚 Monobromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg

检测报告

Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第 6 页 共 16 页
Page 6 of 16

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result				方法检测限 MDL
	(10)	(11)	(12)	(13)	
多溴联苯 Polybrominated Biphenyls(PBBs)					
一溴联苯 Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
三溴联苯 Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
四溴联苯 Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
五溴联苯 Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
八溴联苯 Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
九溴联苯 Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
十溴联苯 Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	5 mg/kg
多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)					
一溴二苯醚 Monobromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	5 mg/kg

检测报告

Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第 7 页 共 16 页
Page 7 of 16

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result			方法检测限 MDL
	(14)	(15)	(16)	
多溴联苯 Polybrominated Biphenyls(PBBs)				
一溴联苯 Monobromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
三溴联苯 Tribromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
四溴联苯 Tetrabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
五溴联苯 Pentabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
八溴联苯 Octabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
九溴联苯 Nonabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
十溴联苯 Decabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)				
一溴二苯醚 Monobromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg

检测报告 Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第 8 页 共 16 页
Page 8 of 16

测试样品/部位描述 Tested Sample/Part Description

- | | |
|---|--------------------------------|
| (1) 带有银色镀层的金属
Metal with silvery plating | (9) 黑色油墨 Black ink |
| (2) 带有银色镀层的金属
Metal with silvery plating | (10) 黑色胶带 Black adhesive tape |
| (3) 银色金属线
Silvery metal wire | (11) 黄色胶带 Yellow adhesive tape |
| (4) 银色金属线
Silvery metal wire | (12) 白色树脂 White resin |
| (5) 银白色金属线
Silver-white metal wire | (13) 黄色树脂 Yellow resin |
| (6) 银色薄膜 Silvery film | (14) 黑色树脂 Black resin |
| (7) 银色薄膜 Silvery film | (15) 棕色树脂 Brown resin |
| (8) 银色油墨 Silvery ink | (16) 黄色固体 Yellow solid |

注释: 对于检测铅, 镉, 汞之样品已完全溶解。

-N.D. = 未检出 (小于方法检测限)

-mg/kg = ppm = 百万分之几

-阴性表示不含有六价铬, 由表面积为 50cm² 的样品所萃取出来的溶液中的六价铬的浓度小于 0.02mg/kg

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

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm² sample surface area used.

备注: 1.本报告替换原报告SCL01G041424E, 自本报告签发之日起, 原报告SCL01G041424E作废。本报告编号末尾中R1表示本次修改后的报告版本。

2.报告编号中“E”表示此报告为中英文对照版本。

Remark: 1.This testing report displaces the original report of No.SCL01G041424E and the original one No.SCL01G041424E was invalid since the date of this testing report released. The end sign of report number R1 represents the revised version.

2.The end sign of report number E represents the bilingual version.

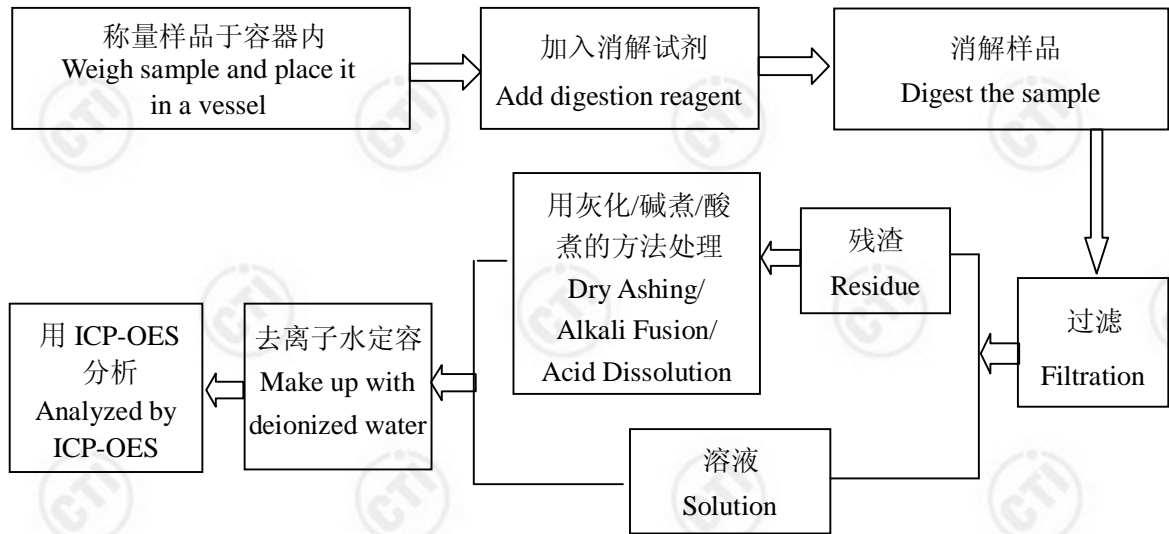
检测报告 Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

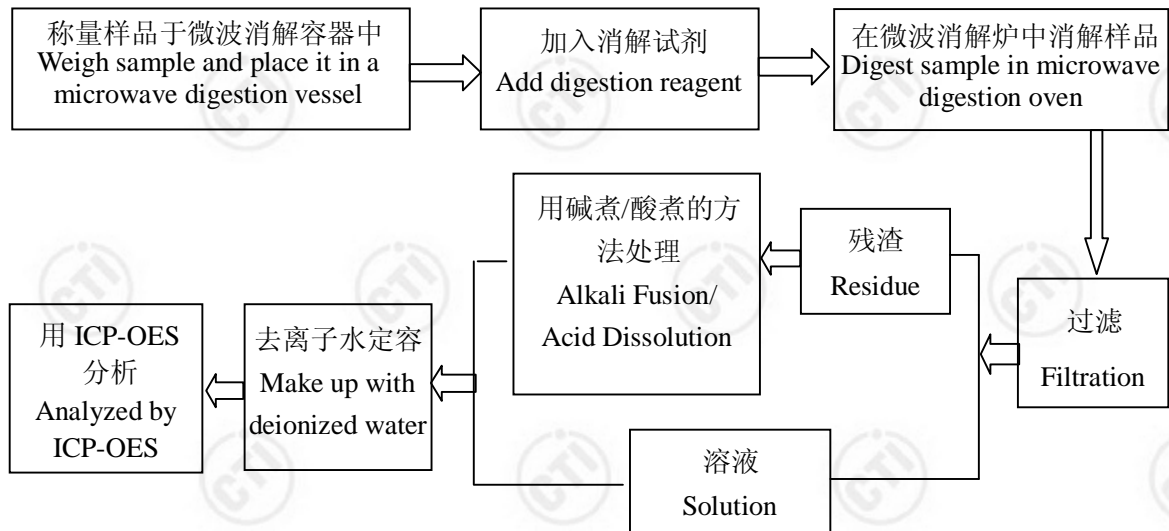
第 9 页 共 16 页
Page 9 of 16

检测流程 Test Process

1. 铅 Lead(Pb), 镉 Cadmium(Cd)



2. 汞 Mercury(Hg)



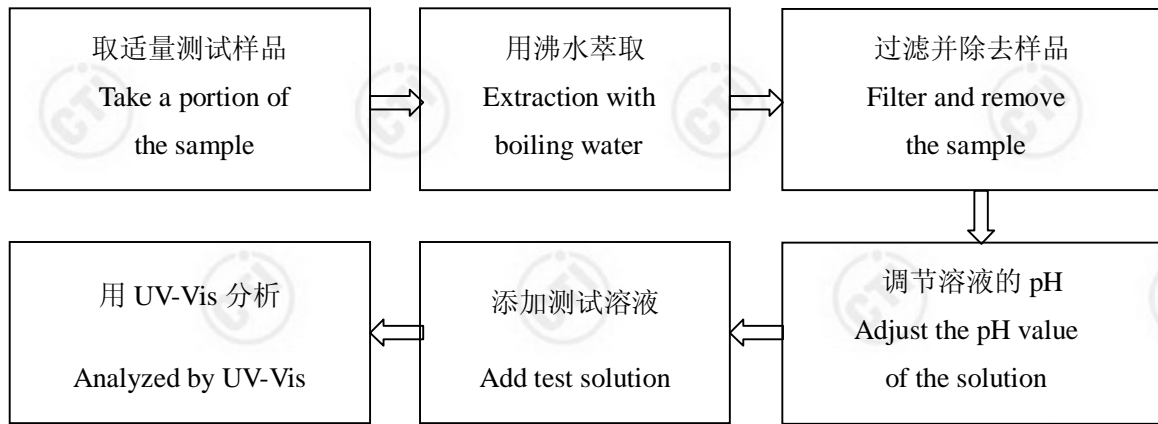
检测报告 Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

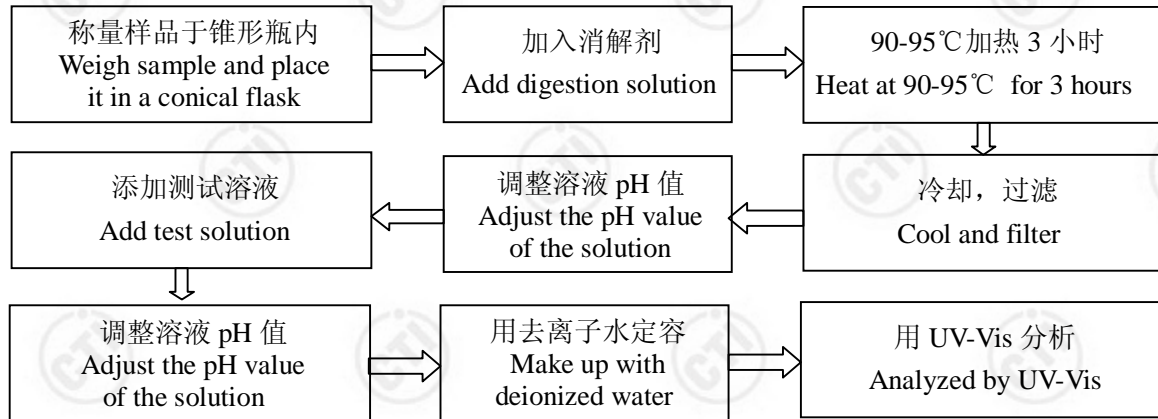
第 10 页 共 16 页
Page 10 of 16

3. 六价铬 Hexavalent Chromium (Cr(VI))

(1) IEC 62321:2008 Ed.1 Annex B



(2) IEC 62321:2008 Ed.1 Annex C

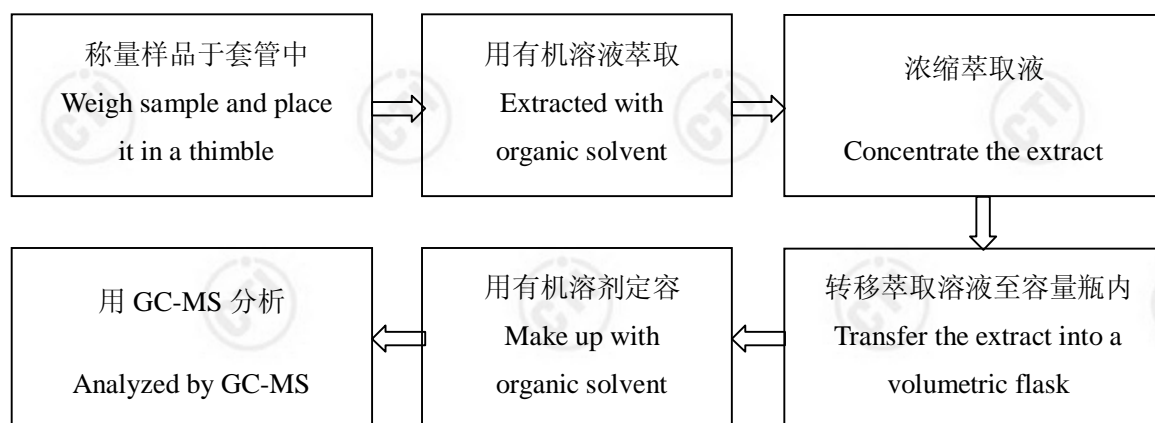


检测报告 Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第 11 页 共 16 页
Page 11 of 16

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



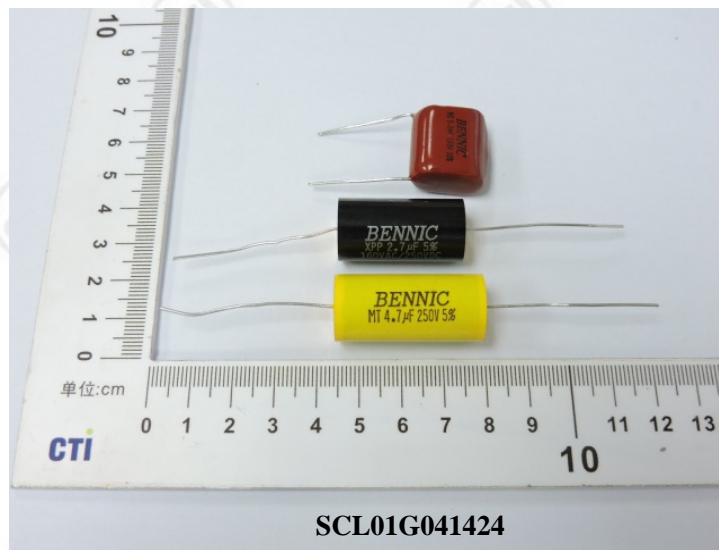
检测报告 Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第 12 页 共 16 页
Page 12 of 16

成品图片

Photo(s) of the Finished Product(s)



检测报告 Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第13页 共16页
Page 13 of 16

样品图片

Photo(s) of the sample(s)

(1)



(2)



(3)



(4)



检测报告 Test Report

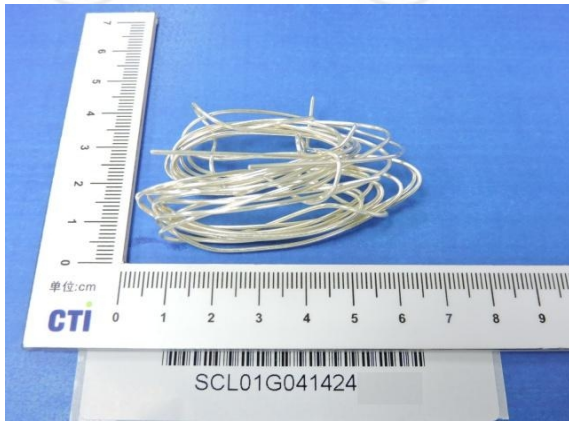
报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第 14 页 共 16 页
Page 14 of 16

样品图片

Photo(s) of the sample(s)

(5)



(6)



(7)



(8)



检测报告 Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第15页 共16页
Page 15 of 16

样品图片

Photo(s) of the sample(s)

(9)



(10)



(11)



(12)



检测报告 Test Report

报告编号 SCL01G041424ER1
Report No. SCL01G041424ER1

第 16 页 共 16 页
Page 16 of 16

样品图片

Photo(s) of the sample(s)

(13)



(14)



(15)



(16)



*** 报告结束 ***

*** End of Report ***

检测报告无批准人签字及“报告专用章”无效，本报告检测结果仅对受测样品负责。未经 CTI 书面同意，不得部分复制本报告。

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