

# 检测报告 Test Report

报告编号 RLNBF00012149  
Report No. RLNBF00012149

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申请单位 浙江中讯电子有限公司  
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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
Product Name	Please refer to the following page(s)
样品型号	请参见下页
Part No.	Please refer to the following page(s)
测试样品名称	请参见下页
Test Sample Name	Please refer to the following page(s)
客户部品名称	请参见下页
Integration Sample Name	Please refer to the following page(s)
样品接收日期	2013.01.18
Sample Received Date	Jan. 18, 2013
样品检测日期	2013.01.18-2013.01.22
Testing Period	Jan. 18, 2013 to Jan. 22, 2013

检测要求/检测依据/检测结果: 请参见下页。

Test Requested/Test Method/Test Result(s): Please refer to the following page(s).

## 结论 Conclusion

测试样品 Tested Sample	依据指令 According to directive	结果 Result
提交样品 Submitted Sample	2011/65/EU	合格 Pass

主 检  
Tested by  
批准  
Approved by

Shen Qian  
Chen Qian

Chen Qian  
Approved Signatory

审 核  
Reviewed by  
日 期  
Date

Wei Miao  
2013.01.22

宁波市华测检测技术有限公司

Centre Testing International(Ningbo)Co.,Ltd.

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

序号 No.	成品名称 Product Name	样品型号 Part No.	测试样品名称 Test Sample Name	客户部品名称 Integration Sample Name
1	船形开关 ROCKER SWITCH	KCD1	黑色尼龙PA66 BLACK NYLON PA66	黑色塑胶 BLACK PLASTIC
2			镀锌碳素弹簧钢丝 ZINC PLATED CARBON SPRING STEEL WIRES	弹簧 SPRING
3			钢珠 STEEL BALL	钢珠 STEEL BALL
4			黄铜镀铜锡 CU/SN PLATED BRASS	银色金属 SILVER METAL
5			银铜合金触点 SILVER/COPPER CONTACT	触点 CONTACT

## 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)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) 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)	方法检测限 MDL
铅 Lead (Pb)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
	IEC 62321:2008 Ed.1 Sec.9		
镉 Cadmium (Cd)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
	IEC 62321:2008 Ed.1 Sec.9		
汞 Mercury (Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
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	5 mg/kg
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg

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### 检测结果 Test Result(s):

测试项目 Tested Item(s)	结果 Result			指令限值 Directive Limit
	1	2	3	
铅 Lead (Pb)	7 mg/kg	N.D.	N.D.	1000 mg/kg
镉 Cadmium (Cd)	N.D.	N.D.	N.D.	100 mg/kg
汞 Mercury (Hg)	N.D.	N.D.	N.D.	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	Negative	Negative	1000 mg/kg

测试项目 Tested Item(s)	结果 Result		指令限值 Directive Limit
	4	5	
铅 Lead (Pb)	214 mg/kg	N.D.	1000 mg/kg
镉 Cadmium (Cd)	3 mg/kg	N.D.	100 mg/kg
汞 Mercury (Hg)	N.D.	N.D.	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	Negative	Negative	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	指令限值 Directive Limit
	1	
多溴联苯 Polybrominated Biphenyls(PBBs)		
一溴联苯 Monobromobiphenyl	N.D.	1000 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	
三溴联苯 Tribromobiphenyl	N.D.	
四溴联苯 Tetrabromobiphenyl	N.D.	
五溴联苯 Pentabromobiphenyl	N.D.	
六溴联苯 Hexabromobiphenyl	N.D.	
七溴联苯 Heptabromobiphenyl	N.D.	
八溴联苯 Octabromobiphenyl	N.D.	
九溴联苯 Nonabromobiphenyl	N.D.	
十溴联苯 Decabromobiphenyl	N.D.	

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测试项目 Tested Item(s)	结果 Result	指令限值 Directive Limit
	1	
多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)		
一溴二苯醚 Monobromodiphenyl ether	N.D.	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	
三溴二苯醚 Tribromodiphenyl ether	N.D.	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	
八溴二苯醚 Octabromodiphenyl ether	N.D.	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	
十溴二苯醚 Decabromodiphenyl ether	N.D.	

## 测试样品/部位描述

### Tested Sample/Part Description

- 1 黑色塑料颗粒 Black plastic grains
- 2 有淡蓝色镀层的金属 Metal with light blue plating
- 3 银色金属 Silvery metal
- 4 有银色镀层的金属 Metal with silvery plating
- 5 触点 Contact

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

-Negative 表示阴性

阴性=不含有六价铬, 由表面积为 50cm<sup>2</sup> 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 50cm<sup>2</sup> sample surface area used.

备注: 1.本报告样品No.1的测试结果引用自报告RLNBF000121450001。

2.本报告样品No.2的测试结果引用自报告RLNBF000121450003。

3.本报告样品No.4的测试结果引用自报告RLNBF000121450002。

4.本报告样品No.5的测试结果引用自报告RLNBF000121480002。

Remark: 1.The sample No. 1 test result(s) of this report is presented in reference to the result(s) that reported in RLNBF000121450001.

2.The sample No. 2 test result(s) of this report is presented in reference to the result(s) that reported in RLNBF000121450003.

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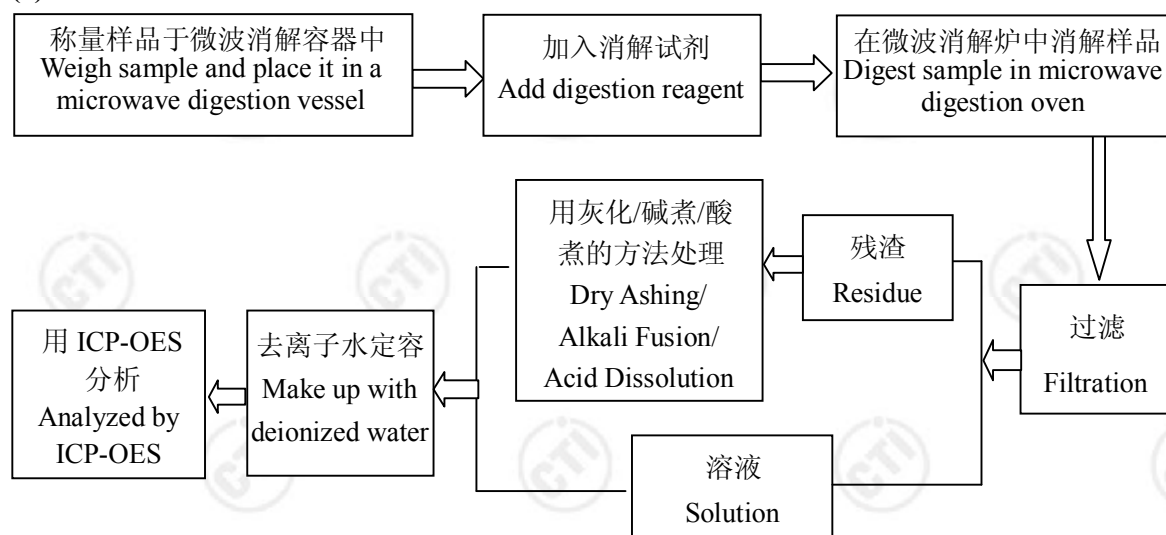
3.The sample No. 4 test result(s) of this report is presented in reference to the result(s) that reported in RLNBF000121450002.

4.The sample No. 5 test result(s) of this report is presented in reference to the result(s) that reported in RLNBF000121480002.

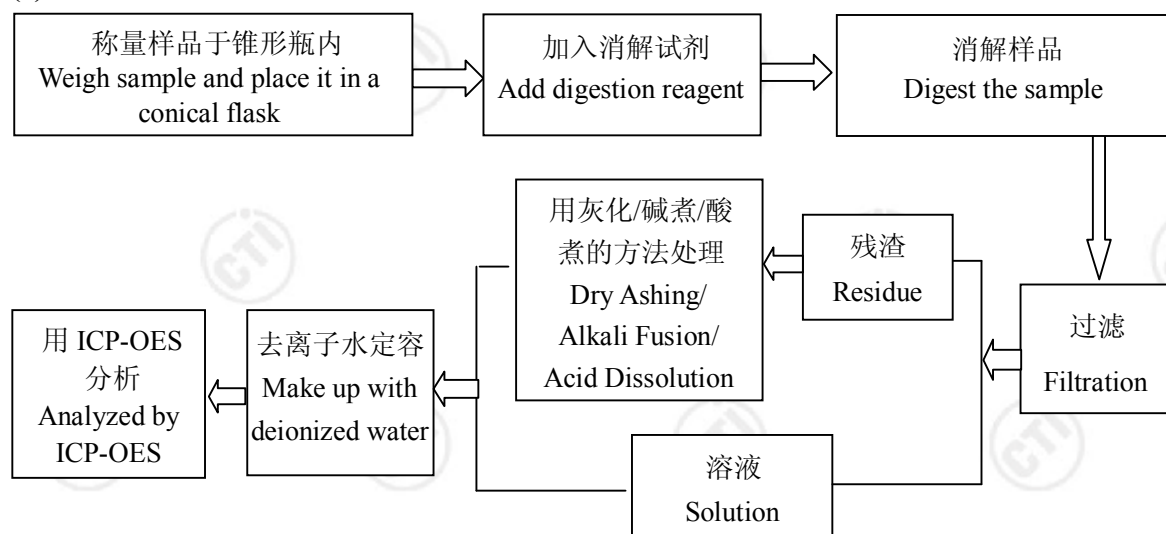
## 检测流程 Test Process:

### 1. 铅/镉 Pb/Cd

#### (1)IEC 62321:2008 Ed.1 Sec.8



#### (2)IEC 62321:2008 Ed.1 Sec.9



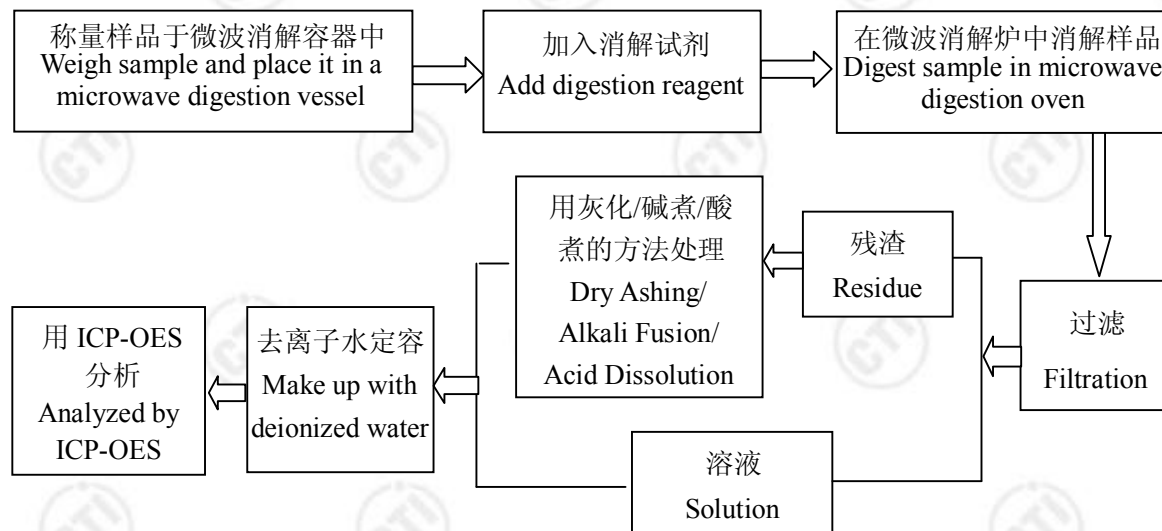


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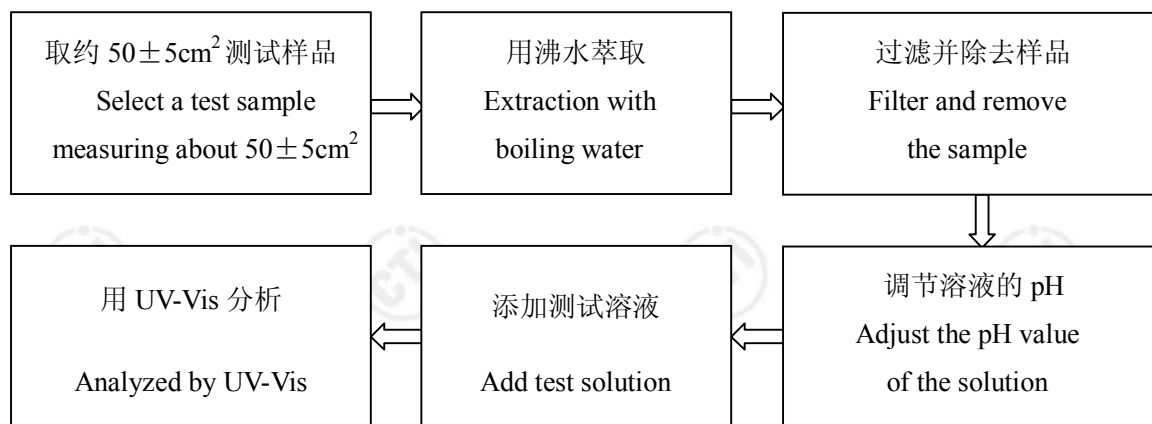
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## 2. 汞 Hg



## 3. 六价铬 Chromium(VI)

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



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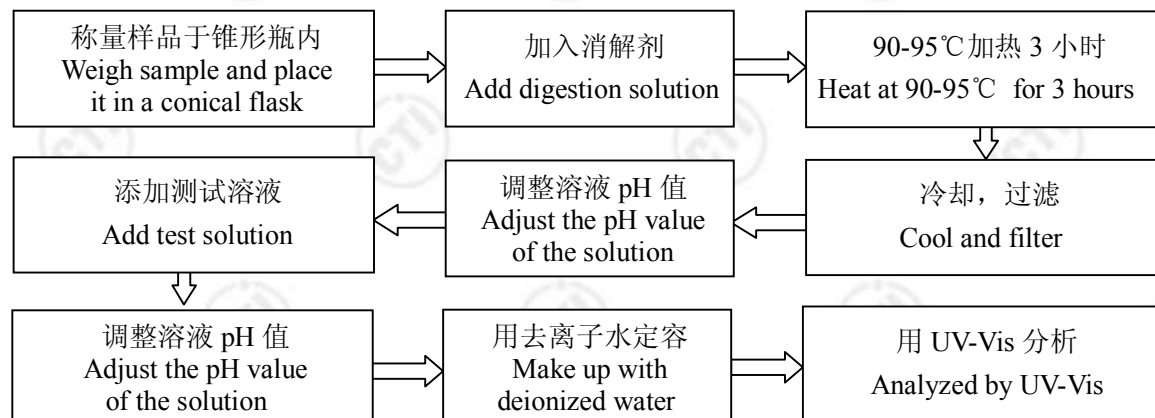
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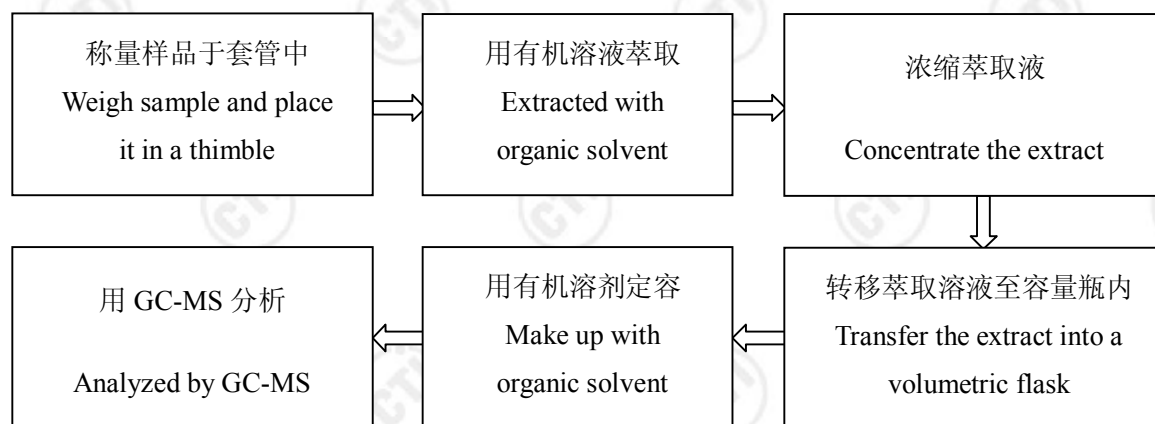
(2) IEC 62321:2008 Ed. 1 Annex C

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## 4. 多溴联苯/多溴二苯醚 PBBs/PBDEs



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成品图片

Photo(s) of the product(s)





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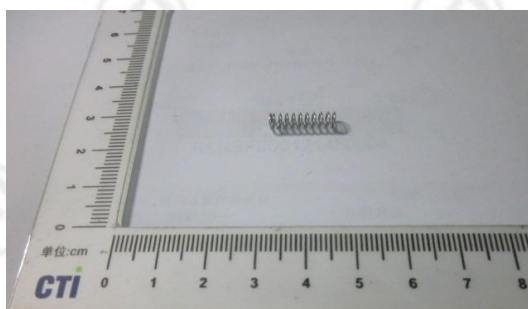
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## 样品图片

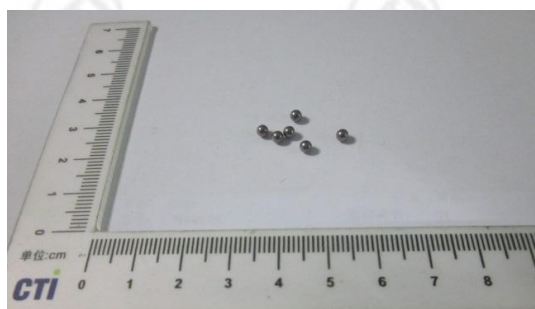
## Photo(s) of the sample(s)



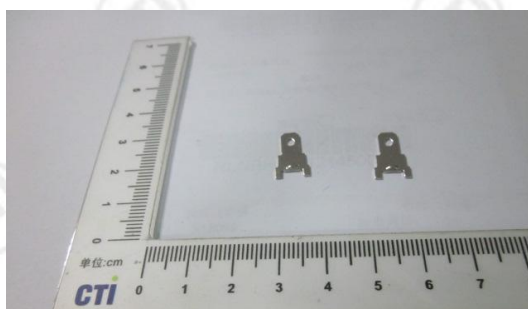
1



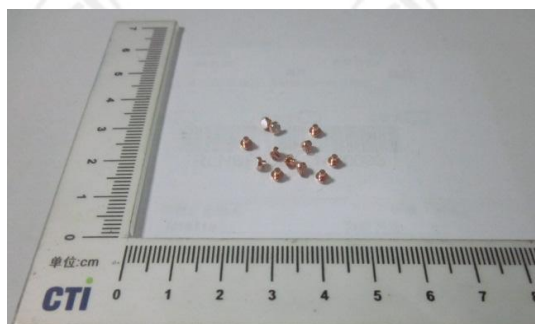
2



3



4



5

\*\*\*报告结束\*\*\*

\*\*\* End of report \*\*\*

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