

Report No.: 18300RC10148502
报告编号: 18300RC10148502

Test Report

检测报告

Client Name : Fujian Qiaoguang Electronic Technology co.,ltd.
委托单位 : 福建省乔光电子科技有限公司

Address : Dayang Road.Xiyuan Town.Zhangping City.Dengbang
地址 : New Industrial and Trade Zone
漳平市西园镇大洋路登榜工贸新区

Product Name : Zinc oxide varistor silver plate
产品名称 : 氧化锌压敏电阻银片

Date : Apr. 21, 2021
日期 : 2021年04月21日

Shenzhen Anbotek Compliance Laboratory Limited


深圳安博检测股份有限公司

检测专用章

Shenzhen Anbotek Compliance Laboratory Limited

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Applicant : Fujian Qiaoguang Electronic Technology co.,ltd.**申请单位** : 福建省乔光电子科技有限公司**Address** : Dayang Road.Xiyuan Town.Zhangping City.Dengbang New Industrial and Trade Zone**地址** : 漳平市西园镇大洋路登榜工贸新区**The submitted sample and sample information was/were submitted and identified by/on the behalf of the client/委托检测之样品及样品信息由申请者提供并确认****Sample Name/样品名称** : Zinc oxide varistor silver plate/氧化锌压敏电阻银片**Material/材料** : Zinc oxide + silver /氧化锌+银**Sample Received Date** : Apr. 14, 2021**样品接收日期** : 2021年04月14日**Testing Period** : Apr. 14, 2021 to Apr. 20, 2021**样品测试日期** : 2021年04月14日至2021年04月20日**Test Requested** : As specified by client, to test the Lead(Pb), Cadmium(Cd), Mercury(Hg),**检测要求** : Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Diisobutyl phthalate (DIBP), Dibutyl phthalate(DBP), Benzyl butyl phthalate(BBP), Di-2-ethylhexyl Phthalate (DEHP) in the submitted sample in accordance with the RoHS Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863 with effective from 22 July 2019. 根据客户要求,依据 RoHS 指令 2011/65/EU 以及修订指令(EU) 2015/863(从2019年7月22日开始生效),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),邻苯二甲酸二异丁酯(DIBP),邻苯二甲酸二丁酯(DBP),邻苯二甲酸丁基酯(BBP),邻苯二甲酸二(2-乙基己基)酯(DEHP)进行测试。**Test Method:** Please refer to the following page(s). /**检测方法:** 请参见下页。**Test Result(s):** Please refer to the following page(s). /**检测结果:** 请参见下页。Edited by Mabel Lin
报告编制人Reviewed by Rosa Yang
报告审核人Authorized Signatory Wendy Wang
授权签字人

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Tested Sample/Part Description: (测试样品/部位描述)

A# All parts mixed / 整体混测

Test Method: (检测方法)

Tested Item(s) 测试项目	Test Method 测试方法	Measured Equipment(s) 测试仪器
Lead(Pb)/ 铅 (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)/ 镉 (Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)/ 汞 (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES
Hexavalent Chromium(Cr(VI)) 六价铬 (Cr(VI))	IEC 62321-7-2:2017	UV-Vis
Polybrominated Biphenyls(PBBs) 多溴联苯 (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs) 多溴二苯醚 (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates/ 邻苯二甲酸酯	IEC 62321-8:2017	GC-MS

Test Result(s): (检测结果)

Tested Item(s) 测试项目	Result/结果 Unit/单位 (mg/kg)	MDL/方法检测限 Unit/单位 (mg/kg)	Limit/限值 Unit/单位 (mg/kg)
	A#		
Lead (Pb)/铅(Pb)	9	2	1000
Cadmium (Cd)/镉(Cd)	N.D.	2	100
Mercury (Hg)/汞(Hg)	N.D.	2	1000
Hexavalent Chromium (Cr(VI))/ 六价铬(Cr(VI))	N.D.	8	1000

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Tested Item(s) 测试项目	Result/结果 Unit/单位(mg/kg)	MDL/方法检测限 Unit/单位(mg/kg)	Limit/限值 Unit/单位(mg/kg)
	A#		
Polybrominated Biphenyls(PBBs) 多溴联苯(PBBs)	N.D.	--	1000
Monobromobiphenyl/一溴联苯	N.D.	5	--
Dibromobiphenyl/二溴联苯	N.D.	5	--
Tribromobiphenyl/三溴联苯	N.D.	5	--
Tetrabromobiphenyl/四溴联苯	N.D.	5	--
Pentabromobiphenyl/五溴联苯	N.D.	5	--
Hexabromobiphenyl/六溴联苯	N.D.	5	--
Heptabromobiphenyl/七溴联苯	N.D.	5	--
Octabromobiphenyl/八溴联苯	N.D.	5	--
Nonabromobiphenyl/九溴联苯	N.D.	5	--
Decabromobiphenyl/十溴联苯	N.D.	5	--
Polybrominated Diphenyl Ethers(PBDEs) 多溴二苯醚(PBDEs)	N.D.	--	1000
Monobromodiphenyl ether/一溴二苯醚	N.D.	5	--
Dibromodiphenyl ether/二溴二苯醚	N.D.	5	--
Tribromodiphenyl ether/三溴二苯醚	N.D.	5	--
Tetrabromodiphenyl ether/四溴二苯醚	N.D.	5	--
Pentabromodiphenyl ether/五溴二苯醚	N.D.	5	--
Hexabromodiphenyl ether/六溴二苯醚	N.D.	5	--
Heptabromodiphenyl ether/七溴二苯醚	N.D.	5	--
Octabromodiphenyl ether/八溴二苯醚	N.D.	5	--
Nonabromodiphenyl ether/九溴二苯醚	N.D.	5	--
Decabromodiphenyl ether/十溴二苯醚	N.D.	5	--



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Tested Item(s) 测试项目	Result/结果 Unit/单位 (mg/kg)	MDL/方法检测限 Unit/单位 (mg/kg)	Limit/限值 Unit/单位 (mg/kg)
	A#		
Dibutyl phthalate(DBP)/ 邻苯二甲酸二丁酯(DBP) CAS #:84-74-2	N.D.	50	1000
Benzylbutyl phthalate(BBP)/ 邻苯二甲酸丁苄酯(BBP) CAS #:85-68-7	N.D.	50	1000
Di-2-ethylhexyl Phthalate (DEHP)/ 邻苯二甲酸二(2-乙基己基)酯(DEHP) CAS #:117-81-7	N.D.	50	1000
Diisobutyl phthalate (DIBP)/ 邻苯二甲酸二异丁酯 (DIBP) CAS #:84-69-5	N.D.	50	1000

Note: (备注)

-N.D. = Not Detected (<MDL) =未检出 (小于方法检测限)

-mg/kg = ppm = parts per million =百万分之几

-#=According to the applicant's request, the admixture of specimen A is tested as a whole. The testing results of specimen A may be different from that of any sole material in specimen A.

-#=根据客户的要求, 对样品 A 进行混测。样品 A 的测试结果可能与单测样品 A 中任何一种材料的结果有差异。



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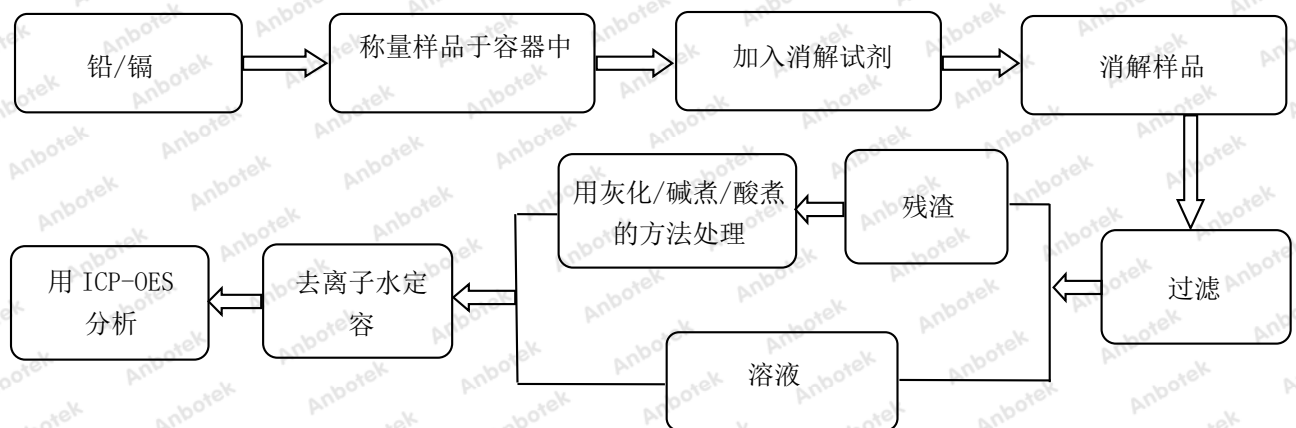
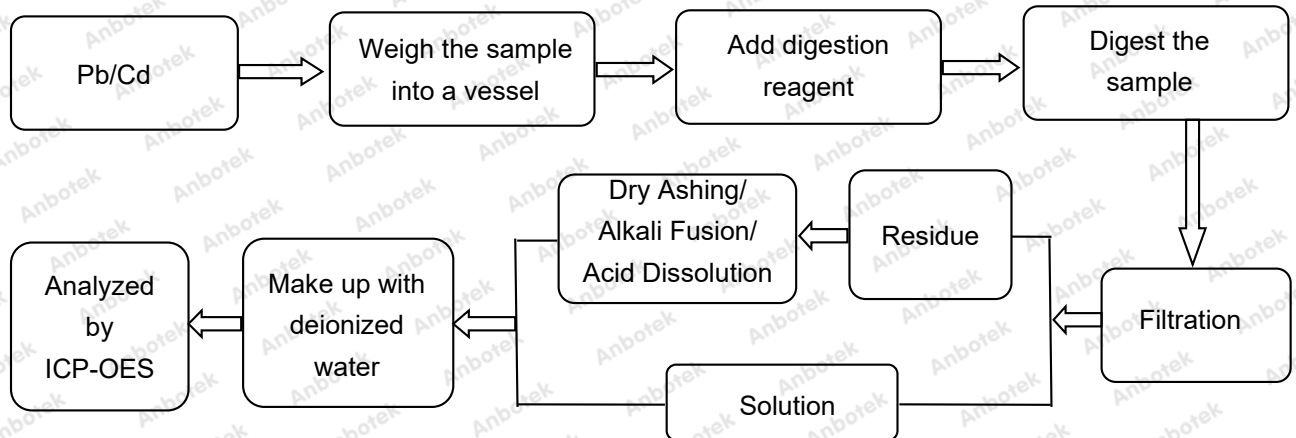
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Test Process: (检测流程)

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

对于检测铅, 镉, 汞之样品已完全溶解。

◆ IEC 62321-5:2013



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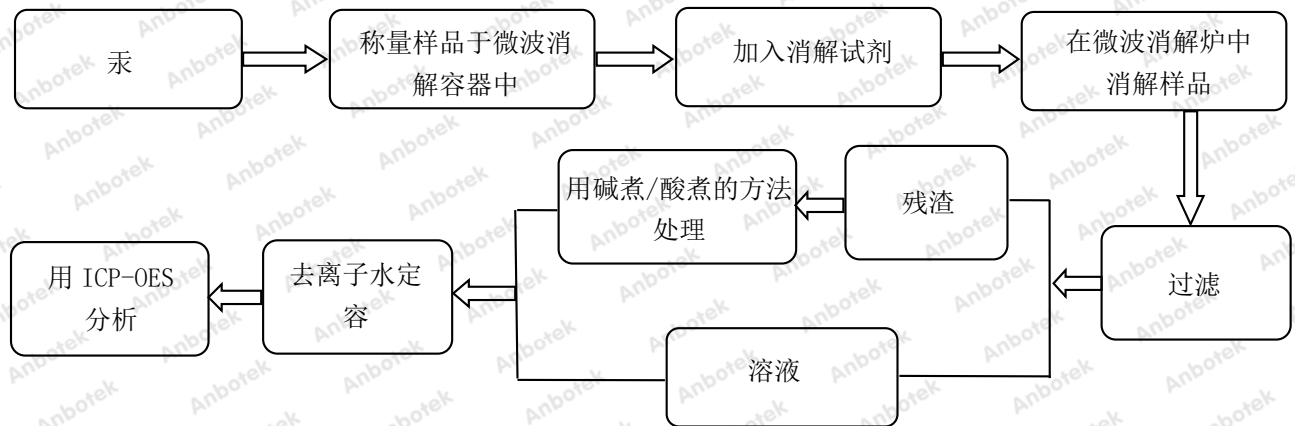
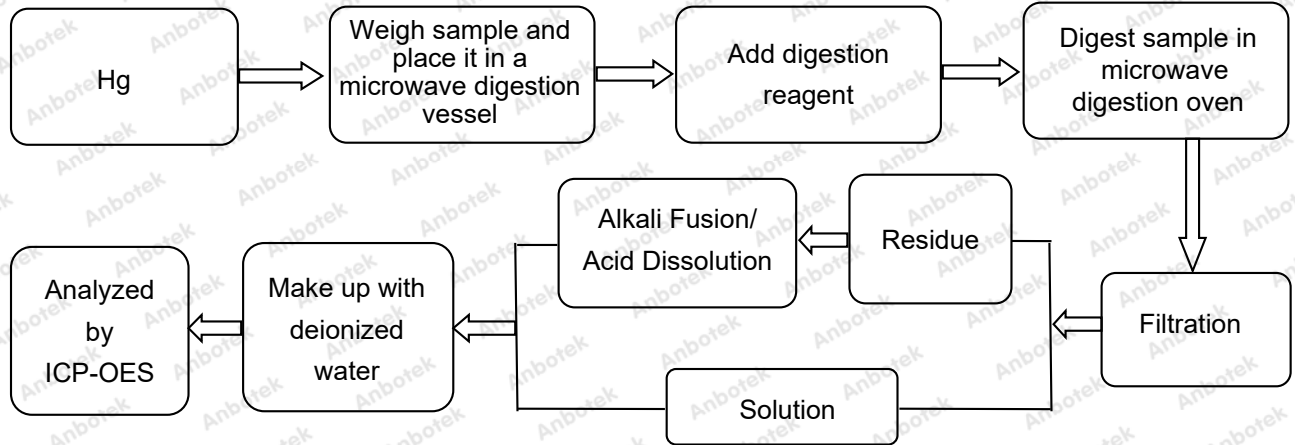
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◆ IEC 62321-4:2013+AMD1:2017



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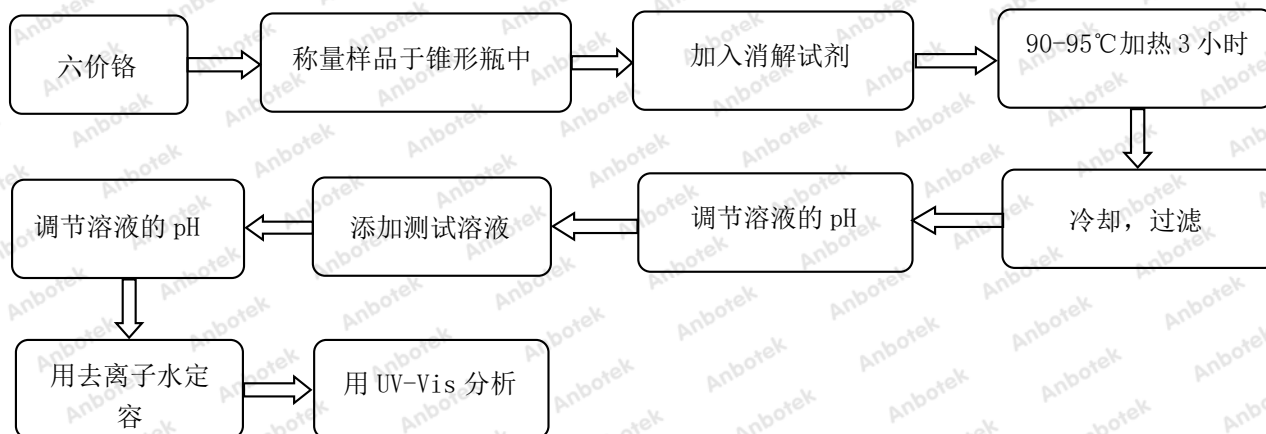
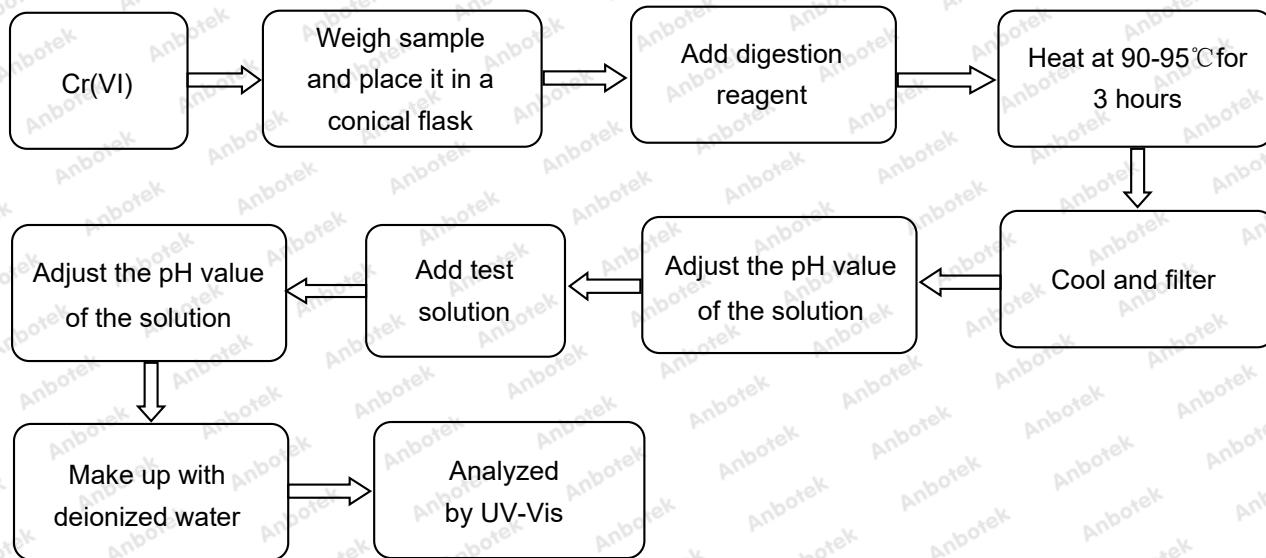
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◆ IEC 62321-7-2:2017



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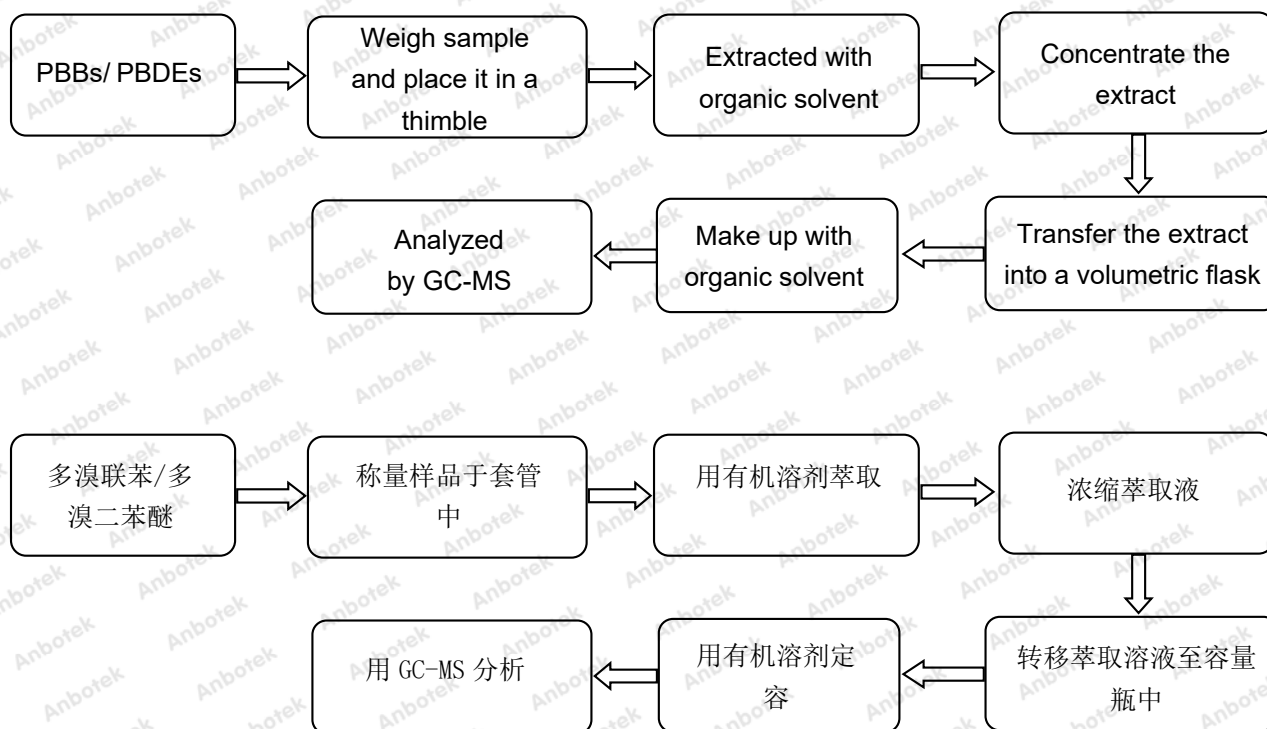
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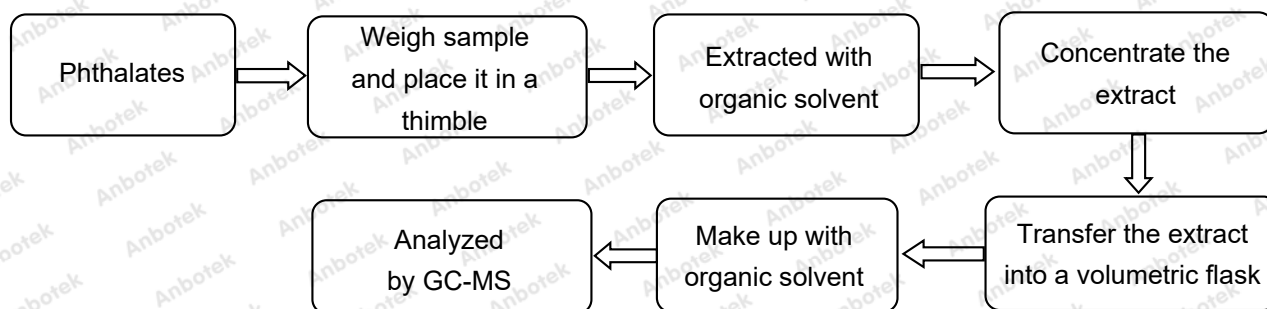
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◆ IEC 62321-6:2015



◆ IEC 62321-8:2017



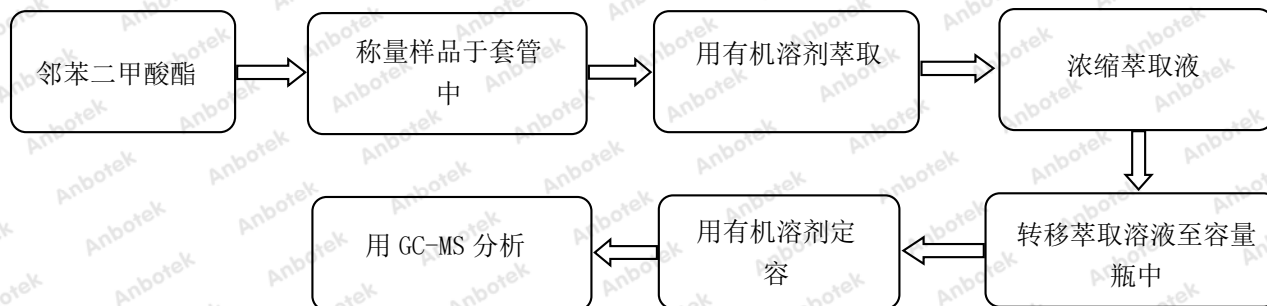
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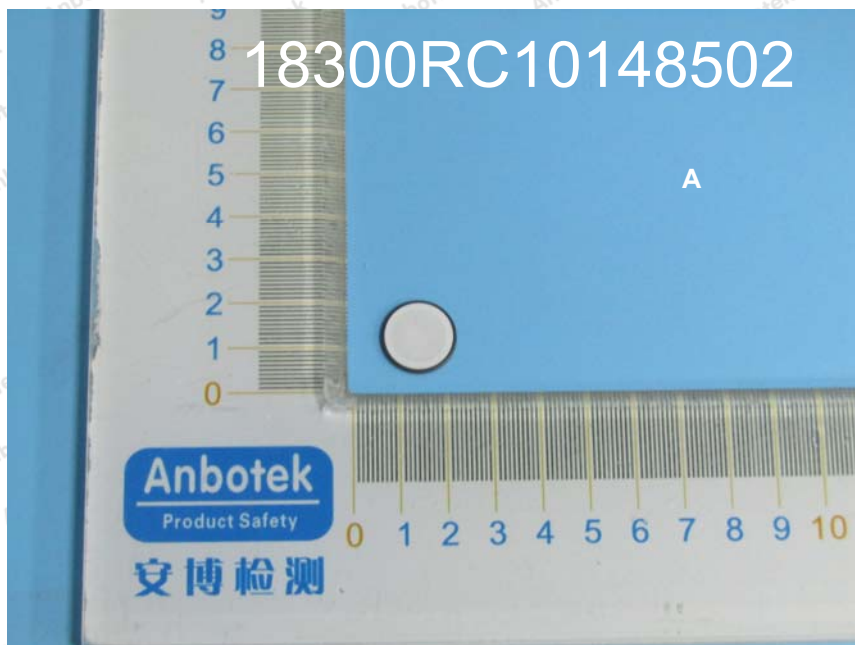
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Photograph of Sample

样品图片



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

***** 报告结束 *****

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