



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

RoHS 2002/95/EC

Test Report Number : CGZ2110325-0016-C



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TEST REPORT

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1 概况

1.1 申请人资料

公司名称 : 衡阳瑞达电源有限公司
 地址 : 湖南省衡阳市石鼓区松木工业园新竹村化工路1号
 联系人 : /
 电话 : +86-734-8539120
 传真 : +86-734-8595518
 手机 : 13487348818
 电邮 : johnsonhujiaxin@ritarpower.com

1.2 生产商和买家

生产商 : 衡阳瑞达电源有限公司
 地址 : 湖南省衡阳市石鼓区松木工业园新竹村化工路1号
 联系人 : /
 电话 : +86-734-8539120
 传真 : +86-734-8595518
 手机 : 13487348818
 电邮 : johnsonhujiaxin@ritarpower.com
 买家 : /

1.3 测试样品

产品名称 : 铅酸蓄电池材料及附件
 型号 : RTXX, RAXX, RLXX Series
 商标 : ritar
 样品状态 : 有效

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1.4 指令

2002/95/EC

电气、电子设备中限制使用某些有害物质指令
 2003年1月27日

与:

2002/96/EC

报废电子电气设备指令
 2003年1月27日

2005/618/EC

电气和电子设备中某些有害物质最大浓度值的修订指令
 2005年8月18日

2 测试结果

2.1 概况

2.1.1 收样日期

2011.04.18

2.1.2 测试日期

2011.04.18 至 2011.04.20

2.1.3 测试要求

申请人指定根据 2002/95/EC (RoHS) 指令测试提交样品的铅, 镉, 汞, 六价铬, 多溴联苯和多溴二苯醚的含量。

2.1.4 测试方法

测试项目	测试方法	测试仪器
铅 (Pb)	参照 IEC62321: 2008	ICP-AES
镉 (Cd)	参照 IEC62321: 2008	ICP-AES
汞 (Hg)	参照 IEC62321: 2008	ICP-AES
六价铬 (Cr VI)	参照 IEC62321: 2008	UV-Vis
多溴联苯 (PBBs)	参照 IEC62321: 2008	GC-MS
多溴二苯醚 (PBDEs)	参照 IEC62321: 2008	GC-MS

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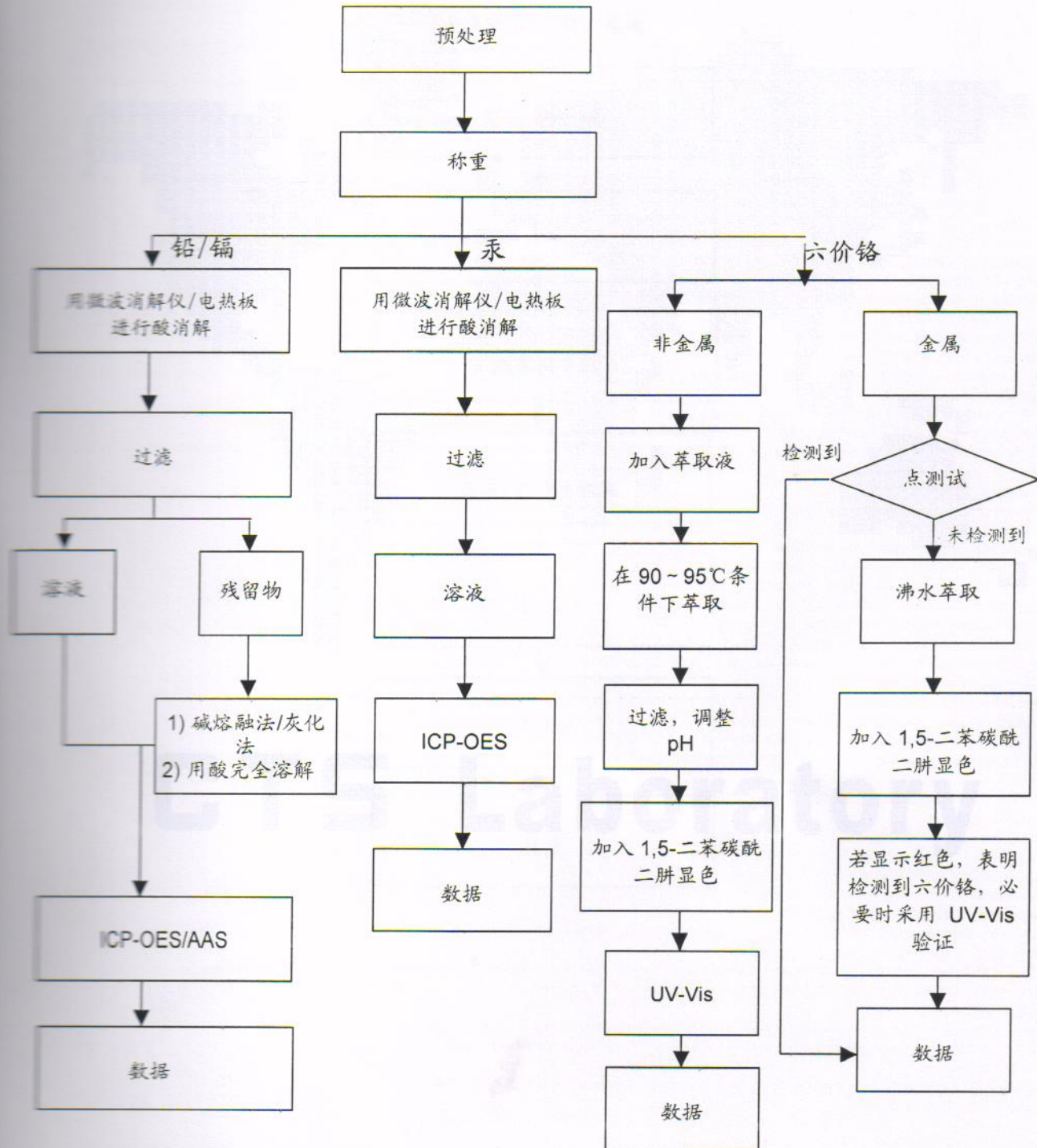
E-mail: cts@cts-lab.com

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2.1.5 测试方法流程图



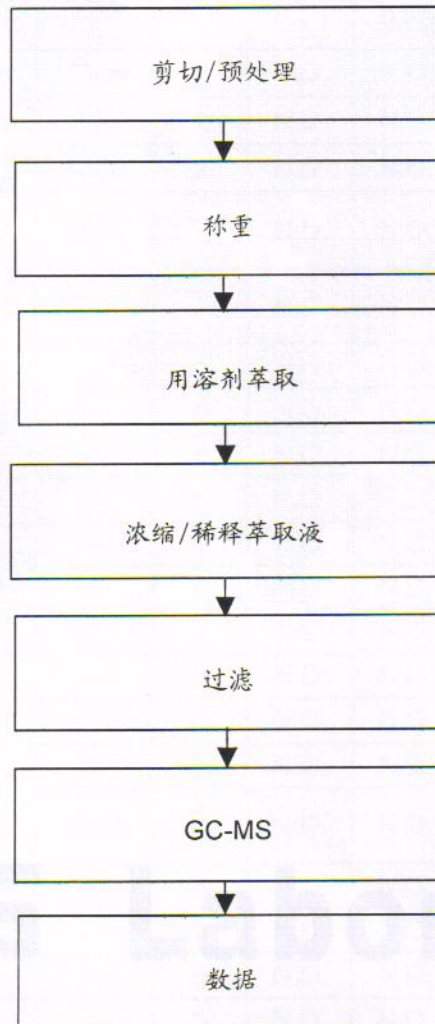
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多溴联苯/多溴二苯醚



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22 结果

测试项目	单位	限值	MDL	结果					
				No.1	No.2	No.3	No.4	No.8	No.9
铅 (Pb)	mg/kg	1000	2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
镉 (Cd)	mg/kg	100	2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
汞 (Hg)	mg/kg	1000	2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
铬采取法测六价铬 (CrVI)	mg/kg	1000	2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
多溴联苯总和 (PBBs)	mg/kg	1000	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
一溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
二溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
三溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
四溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
五溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
六溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
七溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
八溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
九溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
十溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
多溴二苯醚总和 (PBDEs)	mg/kg	1000	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
一溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
二溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
三溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
四溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
五溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
六溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
七溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
八溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
九溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
十溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

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测试项目	单位	限值	MDL	结果					
				No.12	No.13	No.16	No.17	No.18	No.19
铅 (Pb)	mg/kg	1000	2	N.D.	N.D.	N.D.	10	11	19
镉 (Cd)	mg/kg	100	2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
汞 (Hg)	mg/kg	1000	2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
砷萃取法测六价铬 (CrVI)	mg/kg	1000	2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
多溴联苯总和 (PBBs)	mg/kg	1000	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
一溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
二溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
三溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
四溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
五溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
六溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
七溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
八溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
九溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
十溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
多溴二苯醚总和 (PBDEs)	mg/kg	1000	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
一溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
二溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
三溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
四溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
五溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
六溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
七溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
八溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
九溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
十溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

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测试项目	单位	限值	MDL	结果					
				No.20	No.21	No.22	No.23	No.24	No.25
铅 (Pb)	mg/kg	1000	2	3	4	N.D.	263	N.D.	32
镉 (Cd)	mg/kg	100	2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
汞 (Hg)	mg/kg	1000	2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
蘸萃取法测六价铬 (CrVI)	mg/kg	1000	2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
多溴联苯总和 (PBBs)	mg/kg	1000	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
一溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
二溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
三溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
四溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
五溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
六溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
七溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
八溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
九溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
十溴联苯	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
多溴二苯醚总和 (PBDEs)	mg/kg	1000	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
一溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
二溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
三溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
四溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
五溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
六溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
七溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
八溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
九溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
十溴二苯醚	mg/kg	---	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

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				No.14	No.15	No.26
铅 (Pb)	mg/kg	1000	2	N.D.	21	N.D.
镉 (Cd)	mg/kg	100	2	N.D.	N.D.	N.D.
汞 (Hg)	mg/kg	1000	2	N.D.	N.D.	N.D.
点测试/沸水萃取法测 六价铬 (CrVI)	**	#	参见备注 6	Negative	Negative	Negative

测试项目	单位	限值	MDL	结果		
				No.5	No.6	No.7
镉 (Cd)	mg/kg	100	2	N.D.	N.D.	N.D.
汞 (Hg)	mg/kg	1000	2	N.D.	N.D.	N.D.
点测试/沸水萃取法测 六价铬 (CrVI)	**	#	参见备注 6	Negative	Negative	Negative

测试项目	单位	限值	MDL	结果	
				No.10	No.11
镉 (Cd)	mg/kg	100	2	N.D.	N.D.
汞 (Hg)	mg/kg	1000	2	N.D.	N.D.
点测试/沸水萃取法测 六价铬 (CrVI)	**	#	参见备注 6	Negative	Negative

测试部位描述 :

- No.1 : 电池槽
- No.2 : 中盖密封胶
- No.3 : 红色密封胶
- No.4 : 黑色密封胶
- No.5 : 铅
- No.6 : 正极板
- No.7 : 负极板
- No.8 : 隔板

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No.9 : 硫酸
 No.10 : 合金铅
 No.11 : F2 端子
 No.12 : 端子保护套
 No.13 : 印油
 No.14 : 螺栓 (含平垫+弹垫)
 No.15 : 连接条
 No.16 : 提手绳
 No.17 : 纸箱内纸卡
 No.18 : 纸箱内泡沫
 No.19 : 包装纸箱
 No.20 : 包装胶袋
 No.21 : 封箱胶纸
 No.22 : 木托盘
 No.23 : 拉伸膜
 No.24 : 打包带
 No.25 : 卡板护角
 No.26 : 打包带扣

注释 : 1. 样品中要求测定的镉, 汞和铅含量已完全溶解。
 2. N.D.= 未检出(<方法检出限)
 3. 1 mg/kg=1 ppm=0.0001%=1 毫克/千克
 4. MDL=检测方法极限值
 5. * *=定性分析 (无单位)
 6. 点测试法:
 Negative=镀层中未检测到六价铬, Positive=镀层中检测到六价铬;
 (当点测试结果无法确定时, 将采用沸水萃取法作进一步的结果验证。)
 沸水萃取法:
 Negative=镀层中未检测到六价铬
 Positive=镀层中检测到六价铬: 表明 50cm² 表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于 0.02 mg/kg。
 7. #=未规定
 Positive 表明在测试样品中检测到六价铬, 且测试结果不符合 RoHS 的

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相关要求;

Negative 表明在测试样品中未检测到六价铬, 且测试结果符合 RoHS 的相关要求。

8. 根据客户的申请, 中文报告翻译自英文报告 CGZ2110325-0015-C。有任何歧义, 请以英文内容为准。

编制人: *Milv*

审核人: *Annie*

批准人: *Hyt*

报告结束



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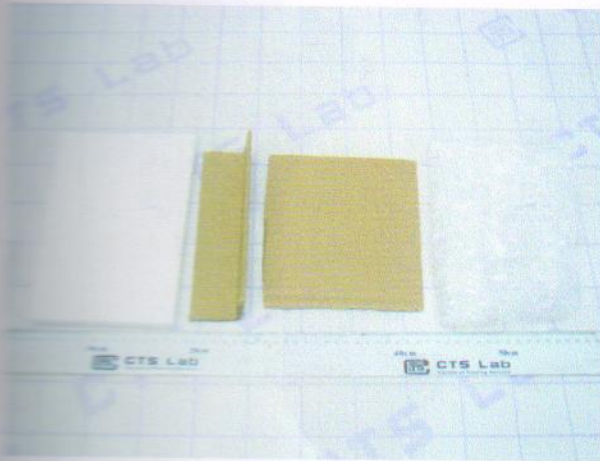
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3 参考图片



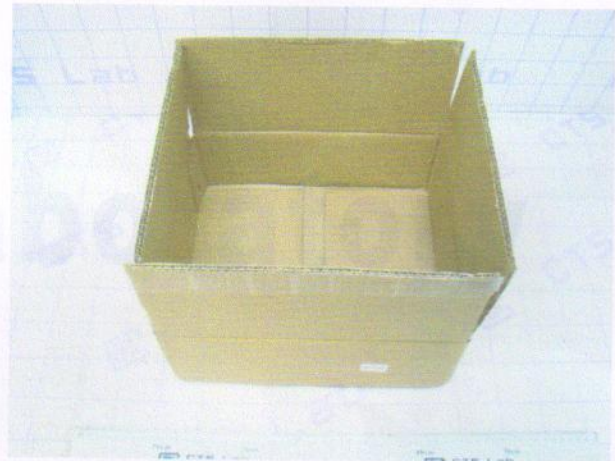
1-5



2-5



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4-5

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