FLWCONN®

承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N): /

华联威料号 (HLW P/N): 216104-1064-G31018

品名规格 (PronameSpec): 2.0 间距简牛双排 90 度 2*13PIN

送样日期 (Delivery Date):2022/03/14

承认日期 (Acknowledge Date): 2022/03/14

Approved No:	客	户									
Customer											
采 购 部	品 质 部	工程 部	确认								
Purchasing Dept	QC Dept	Engineering Dept	Approved By								
深 垻	市华联威电	子科技有限公司									
SHEN ZHEN S	HI HUA LIAN WEI EI	LECTRONICS TECHNOLOG	Y CO; LTD.								
业务部	品 管 部	工 程 部	核 准								
Sales Dept	QC Dept	Engineering Dept	Checked By								
万金菊	欠必锋	魏红	唐竹君								

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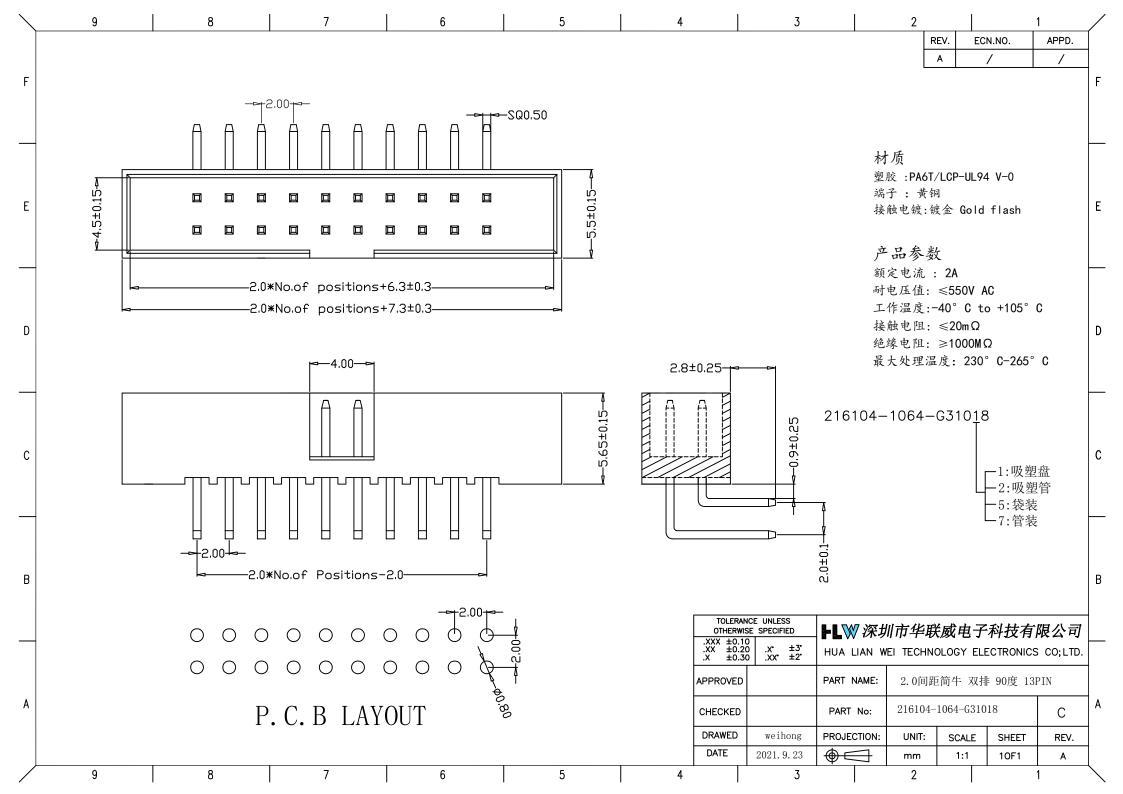


FLWCONN®

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FLWCONN® 深圳市华联威电子科技有限公司 HUA LIAN WEI TECHNOLOGY ELECTRONICS CO., LTD

排针排母系列技术标准

- 1.范围
- 1.1 本标准适用于间距为 2.54、2.0、1.27、1.00mm 的排针排母。
- 2.相关文件
- 2.1 当此规范与产品图发生冲突时以图面为准; 当此规范与其它参考文件发生冲突时, 以此规范为准。
- 3.产品编号
- 3.1 排针编号按本公司编码原则(XLC-PH-XX-G(R、SMT)-D(S))
- 3.2 排母編号按本公司编码原则(XLC-FH-XX-G(R、SMT)-D(S))
- 4.材料要求
- 4.1 排针排母的接触端子用磷铜或青铜。
- 4.2 排针排母的胶芯用含玻纤 30%耐高温,高绝缘以及其它综合性能优良的 PA9T、PA6T、PBT、LCP 等工程塑料。
- 4.3 镀层要求 依客户要求
- 5. 引脚共面性
- 5.1 SMT 型排针的引脚共面性: ≤0.10mm.
- 5.2 SMT 型排母的引脚共面性: ≤0.10mm.
- 6.温度范围

工作温度为-40~105℃

7.测试程序及要求

表 1

条款	测试项目	试验方法	技术要求	备注
7.1	外观检查	目视法或放大镜	无机械损伤、镀层脱落及变形等	
7.2	外形尺寸	用精度为 0.02mm 的卡尺及投影机	按产品图面要求	
7.3	引脚共面	SMT 型产品顺畅通过平整度检测治	排针: ≤0.10mm	
	性	具	排母: ≤0.10mm	
		电气性能		·
7.4	接触电阻	施加开路电压 20mV, 电流不大于 100mA,或用小电流电阻测试仪(排针排母插合后,测试点: 离胶芯基面 2mm 左右)	≤20mΩ	
7.5	绝缘电阻	施加 DC 500V 1 分钟 (测试点:相邻端子之间)	≥5000MΩ	

7.6	耐电压	施加 AC 1000V rms 50 秒 (测试点:	无击穿、飞弧现象、漏电流不大于
		相邻端子之间)	1mA
7 7	州体节伊	机械性能	PER 2 54> 1 OV C/DIN
7.7	烘烤前保	拉拨力测试机量测	间距: 2.54mm≥1.0Kgf/PIN
	持力		2.00mm≥0.8Kgf/PIN
			1.27mm≥0.25Kgf/PIN
			1.00mm≥0.08Kgf/PIN
7.8	过回流炉	 将回流炉升温至 260℃,产品放入回	间距: 2.54mm≥0.2Kgf/PIN
	后保持力	流炉入口经升温区、测试区(10S	2.00mm≥0.1Kgf/PIN
		以内)、冷却区后有出口取出(产品	1.27mm≥0.03Kgf/PIN
		外观无损伤,变形,翘曲等不良);	1.00mm≥0.02Kgf/PIN
		 拉拨力测试机量测	
		GROZEARERRANDER	
		200 200 000 000 000 000 000 000 000 000	
		N (23) popula N (23) popula	产品抽技力测试装置
		回流炉测试温度分区显示	
		E-Mony to portuge X/A estate A	FU: 0 40FMCF
		0.0 per 200 pe	FY: 0.405KGF
			FF: 1.372KGF 06
			过260度回流炉后 2*3P整体拔出力 1.372KGF
			单PIN拔出力=0.228KGF
7.9	插入力	以不低于 12.7mm/分的速度完成一	间距: 2.54mm≤0.30Kgf/PIN
	(排母)	次插拔之后,测量排针插入排母时	2.00mm≤0.20Kgf/PIN
		的插入力,用拉拔力测试机量测。	1.27mm≤0.15Kgf/PIN
			1.00mm≤0.08Kgf/PIN
7.10	拔出力	以不低于 12.7mm/分的速度完成一	间距: 2.54mm≥0.06Kgf/PIN
	(排母)	次插拔之后,测量排针拔出排母时	2.00mm≥0.05Kgf/PIN
		的拔出力,用拉拔力测试机量测。	1.27mm≥0.03Kgf/PIN
			1.00mm≥0.015Kgf/PIN
7.11	机械耐久	以 15 次/分左右的频率插拔插合的	1.接触电阻符合 7.4 的规定。
	(寿命)	排针排母,100次后进行检测。	2.插入力符合 7.9 条的规定。
			3.拔出力符合 7.10 条的规定。
			4.外观无机械损伤。
		环境适应性	
7.12	热冲击	排针暴露在高低温中交替循环5次:	1. 外观无机械损伤,裂纹,破碎等
		低温: -40℃,0.5 小时	现象。
		高温: +105℃,0.5 小时	2. 接触电阻符合 7.4 的规定。
		试验后检验性能。	3. 绝缘电阻符合 7.5 的规定。
7.13	温度寿命	在高温中,在不通电流情况下:85℃	1. 外观无机械损伤,裂纹,破碎等
		±5℃250 小时	现象。
			2. 接触电阻符合 7.4 的规定。
	1	1	

7.14	盐雾试验	将排针、排母放置于温度为+35℃±2℃,盐水浓渡为5±1%的环境中,喷雾12小时后,用自来水清洗干净,在干燥温度35℃±2℃下保持4小时后,检测性能。	 外观完好,无锈蚀。(折料带折断处不作检查要求) 接触电阻符合 7.4 条的规定。 绝缘电阻符合 7.5 条的规定。 耐电压符合 7.6 的规定。 插入力符合 7.9 条规定。 拔出力符合 7.10 条规定。 	
7.15	可焊性	端子锡脚先沾入助焊剂中 5~10 秒, 然后再沾入 260±5℃的焊槽内浸渍 5+0/-0.5 秒 引脚在 260 ℃焊料槽中停留时间 10	测试完样品用10倍放大镜检查无损 伤(如针孔、表面起泡或粗糙现象), 沾锡面积95%以上 塑料体无损伤,变形等不良现象。	_
		秒		

8. 逐批检查:

- 8.1 抽样按 GB/T19001:2008 idt IS09001:2008 要求进行,采用特殊检验水平 S-2,一次抽样方法。
- 8.2 逐批检查项目及缺陷分类 AOL 值:

#	$^{\circ}$
\rightarrow	٠,

	检查项目	条款	AQL 1	备注	
			0.65	1.5	自然
1	外观	7.1	/	/	全检
2	外形尺寸	7.2	/	√	
3	引脚共面性	7.3	/	/	全检
4	接触电阻	7.4	√	/	
5	插入力	7.9	√	/	
6	拔出力	7.10	√	/	

8.3 判定: 当 NG 数超过规定时, 判为不合格, 退回重工, 再重新按规定提交逐批检查。

9. 周期检验

- 9.1 周期检查按 GB/T19001:2008 idt IS09001:2008 标准执行,采用判别水平 II,一次抽样方法, RQL=30。
- 9.2 试验时机:
 - A· 批量生产前;
 - B· 关键结构, 材料更改时;
 - C· 生产满 100K 或半年;
 - D. 停产三个月以上恢复生产时;
 - E· 客户要求时。
- 9.3 试验样品经逐批检查合格的产品中随机抽取,作为周期检验用样品,样品数总共 25PCS,分成 5组 试验。试验分组及内容如下表:

表 3

测试项目		测试群										
	1	1 2 3 4 5										
			测试	顺序								
外观检查	1,7	1,5	1,5	1,9	1,3	1,3						
接触电阻	2,5	2,4	2,4	2,6								

绝缘电阻	3,6					
耐电压						
插入力				3,7		
拔出力				4,8		
机械耐久(寿命)				5		
热冲击	4					
温度寿命		3				
盐雾试验			3			
可焊性					2	
耐焊锡热						2

9.4 判定:

当周期检查试验不合格时,应立即停产,并进行检讨分析,找出原因,经采取改进措施后,经试验 合格后方能恢复生产,如为偶然因素,允许重作一次试验,周期试验合格可作为验收和交货依据。

10.包装:

用相应的管装、卷装、PE 袋包装产品,然后装入内箱再装入外箱,每步包装均要求贴标签。包装数量详见包装图。

11.储存:

包装好的产品,应储存放置在无污染、温度在-15~40 $^{\circ}$ 化相对湿度不超过 80%的环境仓库中,存放整齐。

12.运输:

可用任何方式运输,防止重压、严重碰撞、淋雨、雪等。

核准: 唐竹君 制作: 杨桂峰



FLWCONN® 深圳市华联威电子科技有限公司

SHENZHENHUALIANWEIELECTRONICS CO., LTD.

測試報告

TEST REPORT

產品 名稱 Part Name	2. 0间距(简牛双排90度 13PIN		測試日期 e of Testing	2022. 03. 13– 2022. 03. 14		報告編號 Report NO.		MD20220314-01		L
產品 型號 Part Name				樣品數量 Quantity			測試環境 Date of Testing		濕 度Temp:18 ² 21℃ 相對濕度 R.H.:49% ^{57%}		21°C
一. 電	性測試 ELEC	TRICAL TEST									
序號 NO	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipment	規格 SPEC		i	錄Testing		l _	判 <i>5</i> Jud	ge
1	接觸阻抗	20mA	s 直流低電 阻測試儀	20mΩ Max	1 Pass	2 Pass	3 Pass	4 Pass	5 Pass	ОК V	NG
2	絕緣阻抗	500 V DC/1分钟	絕緣電阻 測試儀	5000 MΩ Min.	Pass	Pass	Pass	Pass	Pass	V	
3	耐壓測試	1000V AC / 0.5 mA 50秒	耐壓測試 儀	No damaged	OK	OK	OK	OK	OK	v	
二. 机	械特性測試	MECHANICAL TEST									
序號 NO	測試項目 Testing	測試條件	測試設備 Testing 規格		測記		記錄Testing Result		判定 Judge		
NO	Item	Testing Conditions	Equipment s	SPEC	1	2	3	4	5	OK	NG
4	插入力	每分钟12.7±3㎜的速度	插拔力計	间距 插拔 力 2.94 2.54mm N MAX 1.96 2.00mm N MAX 1.47 1.27mm N MAX 0.78 1.00mm 4N	OK	OK	OK	OK	OK	V	
5	拔出力 每分钟12.7±3mm的速度	插拔力計	1.00mm 4N MAX 间距		OK	OK	OK	OK	v		
				1. 27mm							
6	锁口保持力	间距 插拔力 2.54mm 9.8N MIN 2.00mm 7.84N MIN 1.27mm 2.45N MIN 1.00mm 0.08N MIN	吊重测试 机	不得发生物理损坏 。	OK	OK	OK	OK	OK	V	

7	耐久性	测试速度:每分钟15个循环,测试次数:100次循环最少	则试次数: 100次循环 插拔力計 个侍友生物埋顶坏		OK	OK	OK	OK	OK	V	
三. 环	三. 环境特性测试 ENVIRONMENTAL TEST										
序號	測試項目 Testing	測試條件	測試設備 Testing	規格		測試記	錄Testing	g Result		判 Jud	
NO	lesting Item	Testing Conditions	Equipment	SPEC	1	2	3	4	5	ОК	NG
9	冷热冲击	温度-40±3℃ 温度105±3℃ 持续时间0.5H	高低温试验箱	不得发生物理损坏。	OK	OK	OK	OK	OK	V	
10	湿温循环	温度85℃±5℃, 持续时间:250H	湿温循环 机	最大接触阻抗20m Ω	OK	OK	OK	OK	OK	V	
11	盐雾试验	温度:35±2℃ 12小时	盐雾试验 箱	最大接触阻抗20m Ω	OK	OK	OK	OK	OK	V	
12	可焊性	焊锡温度: 260±5℃	熔锡炉	沾锡面积达90%以 上	OK	OK	OK	OK	OK	V	
13	焊接耐热试 验	260±5℃ 10秒	工业烘烤 箱	不得发生物理损坏	OK	OK	OK	OK	OK	V	
	完合判定 JUDGMENT		■ 合格 (<i>A</i>	acceptable)		□ 不台	↑格(Reje	ect)			
核准	È(Approver):	欠必锋							測試(T	ester):	旦芬

HLWCONN® 深圳市华联威电子科技有限公司 檢驗報告

■首件檢験	出貨檢	驗 口名		魚 □ 延	退料檢縣	魚 口事	丰他		2022年	三03月	14日 版	次:A1	
料號	216104-1064-G3	1018	制令	單號		/	送檢單位		工程部		首件製作者		裝配
П <i>Б</i>	2.0间距简牛双排	90度	客戶代號			ı	批	量		1	送杭	鐱時間	1
品名	2*13PIN		各尸			/		量	5	PCS	確記	忍時間	/
			■單次]雙次		抽样	数	AQL	CRI:0	MAJ:0.40	MIN:0.6	
M	IIL-STD-105E(II)		1	E常	□加瀾	曼 □洞	成量	(5PC	(S)	ACC/RE.	0	/	/
不良数:		CRI (/) 1	MAJ (/)	MIN (/)	不良	以率(%)	/
NO.	檢驗項目	檢測		檢	驗 記	錄		品管判	『定	CRI	MAJ	MIN	備注
NO.	單位:MM/G	儀器	1	2	3	4	5	AC	RE	CKI	WIAJ	IVIIIN	
	2.00±0.20	D	2.03	2.00	2.01	1.99	2.03	√					
	4.50±0.15	D	4.53	4.55	4.52	4.51	4.52	√					
尺	32.60±0.20	D	32.63	32.64	32.63	32.62	32.65	√					
	33.60±0.20	D	33.62	33.63	33.64	33.65	33.62	√					
寸	4.00±0.20	D	4.02	4.00	4.02	4.03	4.01	√					
	5.65±0.15	D	5.67	5.68	5.72	5.70	5.73	√					
測	24.00±0.20	D	24.03	24.05	24.06	24.05	24.03	√					
量	2.80±0.25	D	2.83	2.85	2.84	2.86	2.84	√					
- 五	0.90 ± 0.25	D	0.92	0.93	0.91	0.92	0.93	√					
檢驗依據:	□<<	檢驗規範	範>> []<<承	認書>>	> 口核	影品 [] 其	它				
檢測儀器:	A游標卡尺 B千分尺	C厚薄	儀 D投景	彡鏡 E放	大鏡 I	顯微鏡	G錫爐	i H插技		器I間位	尺 J非	其它	
品保判定:			合格Ac	cept	□退貨	Reject	: []特采V	Vaiv	/e	」挑選	Sort	

核准: 欠必锋 审核: 李娟 检验员: 但芬

FLWCONN®

深圳市华联威电子科技有限公司

电镀报告表

品名:2.0间距简牛双排90度 端子 版次:A.0 电镀规格:Ni40u", Sn40u" 日期:2021/12/12 页次:1/1

厂商:同华

测试设备:CMI X-射线膜厚测试仪

1、底层电镀测试(Ni)

数据	测试标准	实测值	判定	测试日期	测试时间
1	40u"MIN	46. 5u"	OK	2021/12/12	10:20:15
2	40u″MIN	48. 3u"	OK	2021/12/12	10:20:17
3	40u″MIN	47. 5u″	OK	2021/12/12	10:20:19
4	40u″MIN	42. 4u"	OK	2021/12/12	10:20:21

2、表层电镀测试(Sn)

数据	测试标准	实测值	判定	测试日期	测试时间
1	40u"MIN	45. 3u"	OK	2021/12/12	10:25:10
2	40u"MIN	46. 7u"	OK	2021/12/12	10:25:12
3	40u"MIN	48. 9u″	OK	2021/12/12	10:25:14
4	40u"MIN	42. 4u"	OK	2021/12/12	10:25:16

核准:欠必锋 审核:李娟 检验员:但芬

FLWCONN®

深圳市华联威电子科技有限公司

盐水喷雾实验报告

试验方法	盐水喷雾腐蚀试验法	参考资料	MIL-STD-1216
METHOD	NEUTRL SALT SPRAY CORROSION TEST	REF	MID 010 1210
安白	/	试验起始日期	2022年03月13日 20:00 时起
各广	客户 /		2022年03月14日 08:00 时止
样品名称	2.0间距简牛双排90度2*13PIN	试验数量	5PCS
P/N	216104-1064-G31018		

试验条件 (TEST CONDDITION)

- 1、盐水溶解(SALT SOLUTION:浓度50±10g/L,PH值6.5-7.2.
- 2、试验室温度 (TEMP. IT THE SPRAY DHAMBR):35±1℃.
- 3、盐水桶温度 (TEMP. OF SALE SOL'N TANK): 35±1℃.
- 4、 压力桶温度 (TEMP.OF SAR SUPPLIERY): 47±1℃.
- 5、 试验室相对湿度(R.H IN THE CHAMBER) 85%.
- 6、 压缩空气压力(COMPRESSED AIR PRESSURE): 1.00±0.01Kg/cm².
- 7、 样品放置位置(SPECIMEN SUPPORTED ANGLE): 尼龙绳吊挂70°-90°.
- 8、 喷雾收集量 (COLLECT RATE OF SALT SOL′N) 1-2mL/(8 cm²hr).
- 9、盐雾测试时间: 12小时 (H)

判定方法(ADFUSGD METHOD)

试验后以20倍放大镜观察、无蓝、绿色腐蚀物之现象(不包含折弯处),即判定合格.(Inspext the ecimen at 20 xmagnification no blue or green corrosion products are acceptable)

样品序号	试验后现象	判定
件加力与	PHENOMENON AFTER TEST	COMMENT
1	无蓝、绿色腐蚀物之现象	OK
2	无蓝、绿色腐蚀物之现象	OK
3	无蓝、绿色腐蚀物之现象	OK
4	无蓝、绿色腐蚀物之现象	OK
5	无蓝、绿色腐蚀物之现象	OK

核准:欠必锋 审核: 李娟 试验员:但芬

钜鼎銅材廠檢驗報告單

公司名稱 Customer	钜鼎銅材廠檢驗報告單		重量 Weight(kg)	1078	出貨日期 Date		2021/11/23			
品名	2 12 12 12	標	[准			寸		態	銅卷編號	
Article		Stand	ard No		Dime	ension	Ter	nper	Coil No	
C2680	v.	JISH31	00:2017		0.18	*400	E	EH	1021	-C-08
				化學	式分Chemical Con	mpositions(%)				
元素 Element	Cu %	Zn%	Pb%	Fe%	\	\	1	\	化學成分	雜質
規範 Spec	64.0-68.0	餘量	<0.05	<0.05	\	1	\	\	合格	合格
實測 Actual	64.32	餘量	0.0036	0.0136	\	1	١	\	合格	合格
				機械性	質子Mechanical	Properties				
項目	結晶粒度	硬度	抗拉強度	伸長度	導電率	彎曲試驗	表面	粗度	彎	曲度
Item	Grain Size	Hardness	TensionStrength	Elongation	Electrical Conduc	Bending Test	Surface F	Roughness		mber
	Mm	Hv	Mpa	%	%IACS	180	Ra(u m)	m	m\n
規範MAX Spec	\	170-190	490-610	\	\	\	\		i,	
實測 Actual	\	178	574	5	\	١	\		\	

品質部

聯系電話:0755-28111847 傳真: 0755-28110077 送货专用量

材质证明表

供应商:深圳市宝时达塑胶制品有限公司

日期:2020年1月6日

Material name	Element name composition	Element%(by weight)	ICP Test data(ppm)		Test date				
部件材质名	构成之元素名称	元素百分比(以重量计)	Cd	Pb	Hg	Cr6+	PBBS	PBDES	(检测日期)
D. 05	PA6T	67%	此部分请参考所提供的SGS报告				.告		
PA6T E630	玻璃纤维	29%							2020年 1月6日
	助剂	4%							

*表格列数不够可按格式自行增加附页

制表人:车业明



Test Report No. CANML2208463101 Date: 15 May 2022 Page 1 of 6

DONGGUAN CHUANXU PLASTIC SCIENCE&TECHNOLOGY CO.,LTD

CHUANXU INDUSTRIAL ZONE, NANMEN INDUSTRIAL PARK, QIAOLI, CHANGPING TOWN, DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as: PA6T

SGS Job No.: SZIN2205006005PC - SZ

Date of Sample Received: 11 May 2022

11 May 2022 - 15 May 2022 Testing Period:

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

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

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

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Zm guan

Approved Signatory

Luguan



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Test Report No. CANML2208463101 Date: 15 May 2022 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN22-084631.001 Black plastic grains

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.

(3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4)With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis and/or with reference to IEC 62321-5:2013, determination of Chromium by ICP-OES.

(5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

(6) With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	6
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND



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Test Report	No. CANML2208463	101	Date: 15 May 2022		Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Sum of PBDEs	1,000	mg/kg	-	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37.25.
- (2) The result of Hexavalent Chromium (Cr(VI)) is "ND" as the result of Chromium (Cr) is "ND", and confirmation test of Hexavalent Chromium (Cr(VI)) is not required.
- (3) If the Chromium (Cr) content is greater than the MDL of Hexavalent Chromium (Cr(VI)). And confirmation test of Hexavalent Chromium (Cr(VI)) is required.



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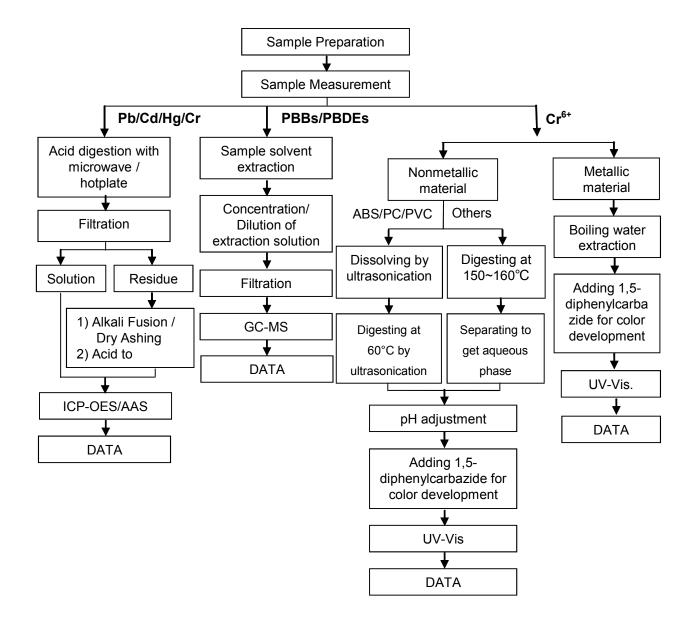
Date: 15 May 2022

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Edith Zhang / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Qiong Liu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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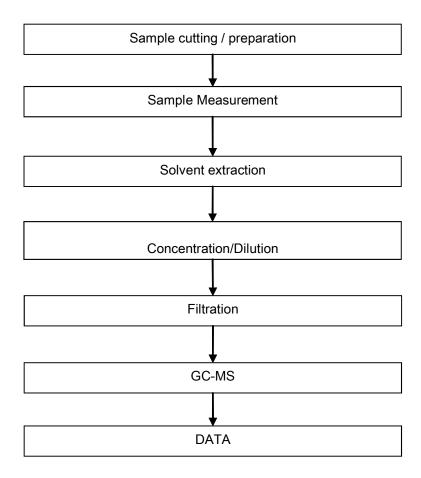
Date: 15 May 2022

Page 5 of 6

ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu





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No. CANML2208463101

Date: 15 May 2022

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Sample photo:



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Test Report No. CANEC2222380701 Date: 26 Oct 2022 Page 1 of 4

Client Name: SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

Client Address: 101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN

SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

Sample Name: C2680 Terminal

Model No.: C2680 terminal after plating

Client Ref. Info.: Used for USB series, HDMI series, RJ series, 1394 series, MICRO series, MINI

series, DISPLAYPORT series, VGA series, DVI series, TYPE-C series, JACK

series

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

SGS Job No.: CP22-057100 - GZ

Date of Sample Received: 20 Oct 2022

Testing Period: 20 Oct 2022 - 26 Oct 2022

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

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

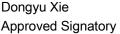
Test Result(s): Please refer to next page(s).

Result Summary:

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU-	PASS
Lead, Mercury, Cadmium and Hexavalent chromium	

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







ivices Co., Ltd.

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Test Report No. CANEC2222380701 Date: 26 Oct 2022 Page 2 of 4

Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN22-223807.001 Silver-grey/brassy metal

Remarks:

(1) 1 mg/kg = 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 and **Hexavalent chromium**

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	3
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	0.10	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 CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI 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.



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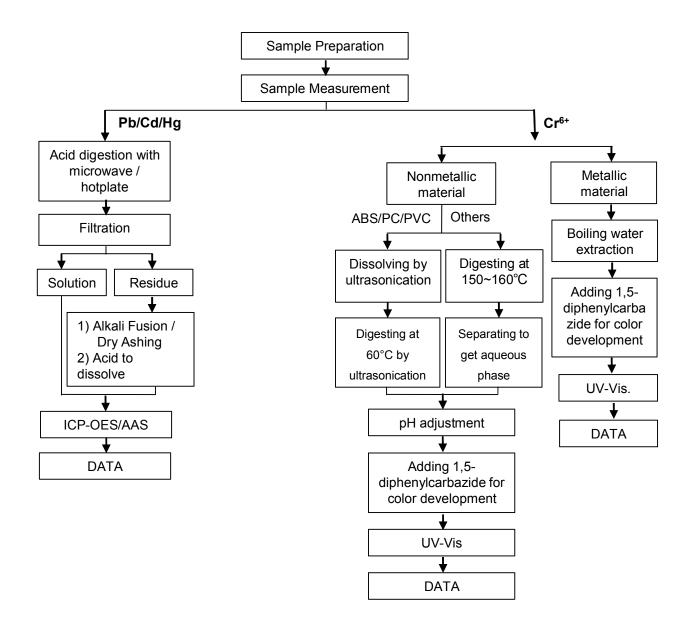
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ATTACHMENTS

Pb/Cd/Hg/Cr6+ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded).





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No. CANEC2222380701

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Date: 26 Oct 2022

Sample photo:



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*** End of Report ***



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Test Report Date: 30 Aug 2022 No. CANEC2218227001 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD Client Name:

Client Address: TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

Sample Name: Nickel(Ni)

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

SGS Job No.: CP22-047169 - SZ

Date of Sample Received: 25 Aug 2022

Testing Period: 25 Aug 2022 - 30 Aug 2022

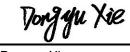
Test Requested: Selected test(s) as requested by the client.

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

Result Summary:

Test Requested	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
Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives	See Results

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



Dongyu Xie Approved Signatory





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Test Report No. CANEC2218227001 Date: 30 Aug 2022 Page 2 of 8

Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description

> SN1 CAN22-182270.001 Silver-gray plated metal

Remarks:

(1) 1 mg/kg = 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)

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC Test Method: 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	49
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC2218227001		Date: 30 Aug 2022		Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (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 CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI 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.

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND

Notes:



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No. CANEC2218227001 Date: 30 Aug 2022 Page 4 of 8

(1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

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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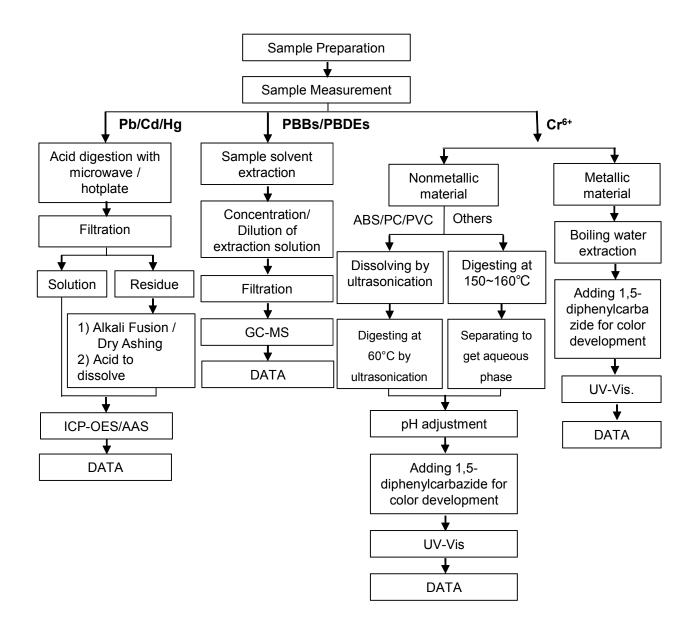
Date: 30 Aug 2022

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ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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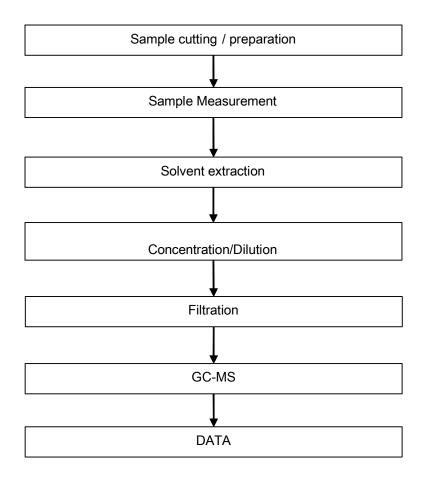
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ATTACHMENTS

Phthalates Testing Flow Chart





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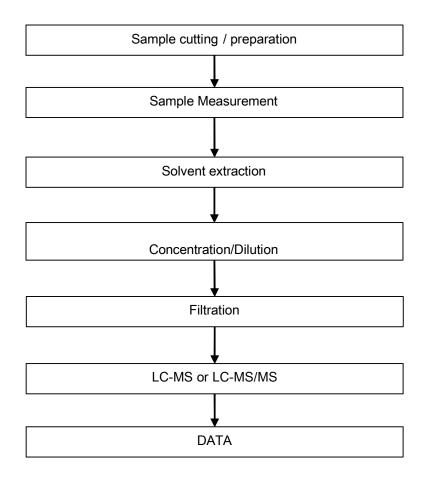
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ATTACHMENTS

PFOA / PFOS Testing Flow Chart





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No. CANEC2218227001

Date: 30 Aug 2022 Page 8 of 8

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report Date: 30 Aug 2022 No. CANEC2218227003 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD Client Name:

Client Address: TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

Sample Name: Bright Tin(SN)

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

SGS Job No.: CP22-047169 - SZ

Date of Sample Received: 25 Aug 2022

Testing Period: 25 Aug 2022 - 30 Aug 2022

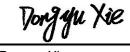
Test Requested: Selected test(s) as requested by the client.

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

Result Summary:

Test Requested	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
Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives	See Results

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



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Test Report No. CANEC2218227003 Date: 30 Aug 2022 Page 2 of 8

Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN22-182270.003 Silver-gray plated metal

Remarks:

(1) 1 mg/kg = 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+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	44
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC2218227003		Date: 3	30 Aug 2022	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (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 CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI 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.

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND

Notes:



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No. CANEC2218227003 Date: 30 Aug 2022

(1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

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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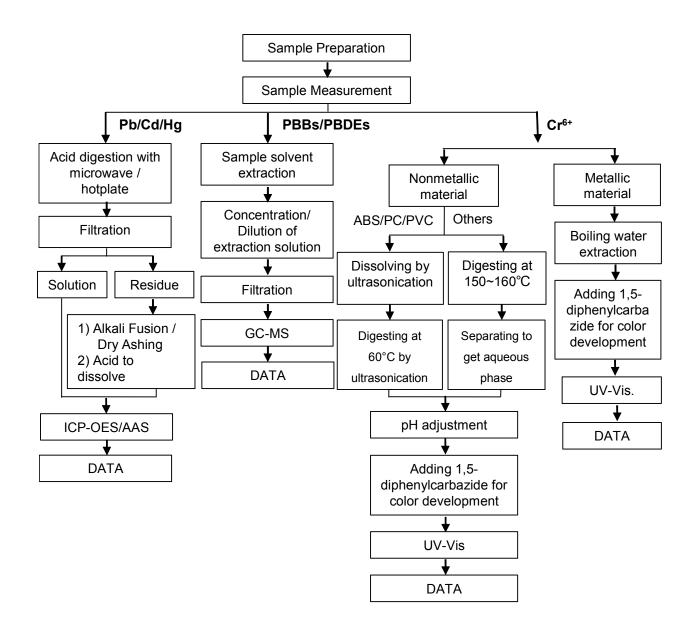
Date: 30 Aug 2022

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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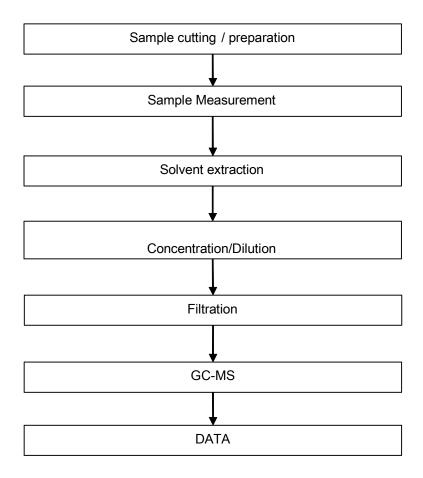
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Phthalates Testing Flow Chart





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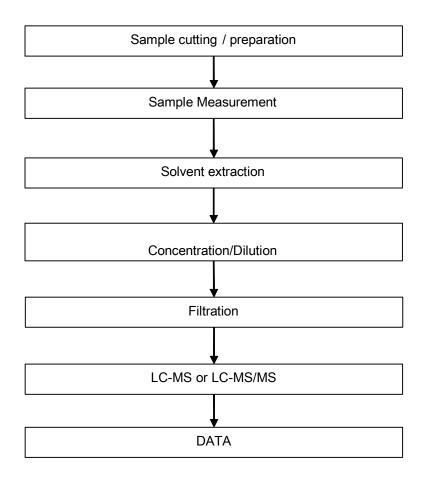
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PFOA / PFOS Testing Flow Chart





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Date: 30 Aug 2022

Sample photo:



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Test Report Date: 30 Aug 2022 No. CANEC2218227002 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD

Client Address: TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

Sample Name: Gold (AU)

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

SGS Job No.: CP22-047169 - SZ

Date of Sample Received: 25 Aug 2022

Testing Period: 25 Aug 2022 - 30 Aug 2022

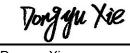
Test Requested: Selected test(s) as requested by the client.

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

Result Summary:

Test Requested	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
Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives	See Results

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



Dongyu Xie Approved Signatory





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Test Report No. CANEC2218227002 Date: 30 Aug 2022 Page 2 of 8

Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN22-182270.002 Gold plated metal

Remarks:

(1) 1 mg/kg = 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+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	50
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC2218227002		Date: 30 Aug 2022		Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (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 CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI 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.

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	002
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	<u>002</u> ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND

Notes:



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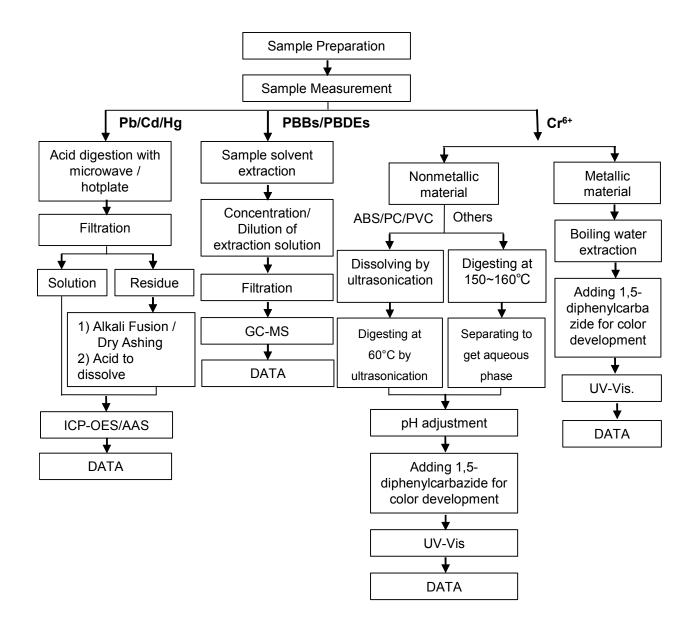
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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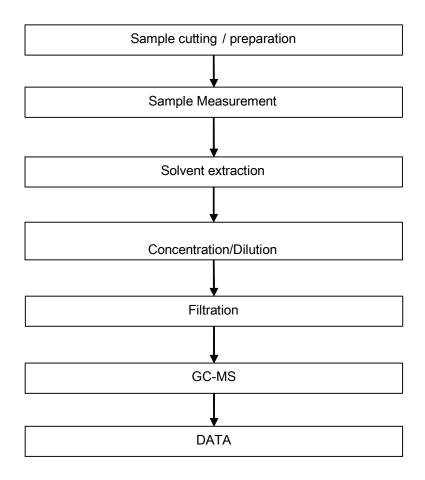
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Phthalates Testing Flow Chart



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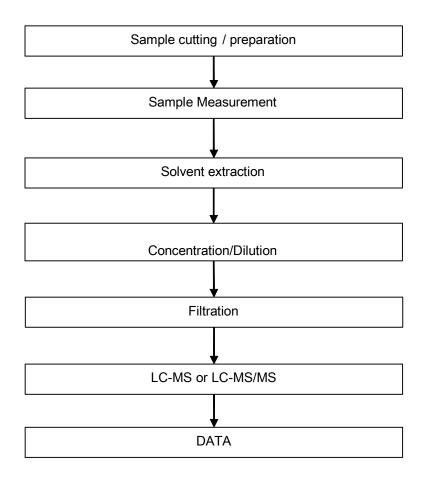
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ATTACHMENTS

PFOA / PFOS Testing Flow Chart





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Sample photo:



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