### **FLWCONN®**

## 承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N):/

华联威料号 (HLW P/N):U)+& 5%(6!; '%',

品名规格 (PronameSpec): HMD9 7 % D'CAH % \$

送样日期 (Delivery Date):2022/08/05

承认日期 (Acknowledge Date): 2022/08/05

Approved No:	客	户	
	Custo	omer	
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 SI	HI HUA LIAN WEI EL	ECTRONICS TECHNOLOGY	Y CO; LTD.
业务部	品 管 部	工 程 部	核 准
Sales Dept	QC Dept	Engineering Dept	Checked By
吴鑫萍	欠必锋	陈建辉	唐竹君

地址:深圳市龙华区观澜街道桂香社区观澜桂花路 307 号

TEL: 0755-28888886 28888866

邮箱: hua@hIwconn.com

Http://www.hlwconn.com

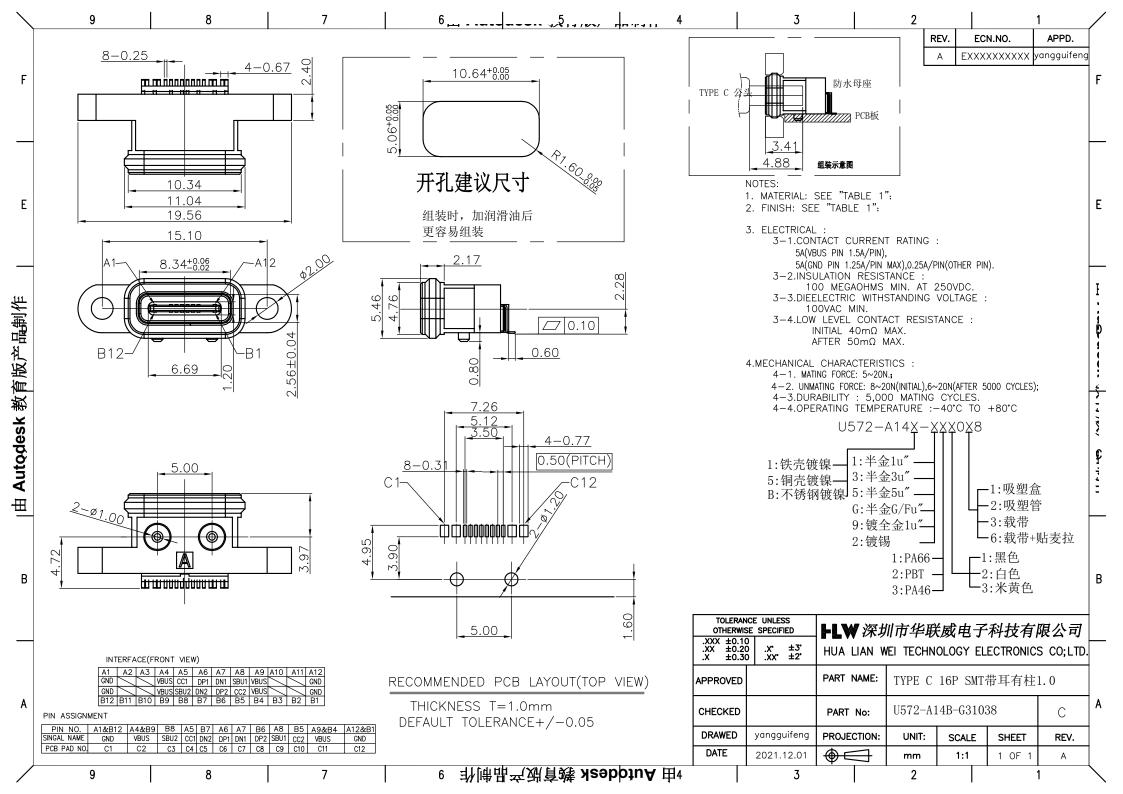


## **FLWCONN**®

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SGS



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

### USB 3.1 TYPE-C系列产品SPEC

版本版次: C 制定日期 20200707 适用范围 通用

- 1. Scope (范围)
- 1.1 Contents(内容)

This specification covers the performance, tests and quality requirements for the Electronics USB 3.1 TYPE-C Connector.(此份产品规格适用于USB 3.1 TYPE-C连接器的产品功能,测试方法及质量要求)

- 2. Requirements (要求):
- 2.1 Rating(额定条件)
- A. Voltage rating(额定电压):30V AC
- B. Current rating(额定电流):1.5A
- C. Operation Temperature Range(工作温度范围):-30℃ to +80℃
- 3. Test Condition(测试条件):
- 3.1 Temperature range(温度范围):-15℃ to +35℃
- 3.2 Humidity range (湿度范围):25% to 85%
- 4. Test Methods and Requirements:(测试方法及要求)

#### 4.1 Examination of product (产品外观)

Examination Visual

	of Product 产品外观	目视	deformation of the base or damage. 不得有电镀层剥落, 塑料变形或破损
4.2. El	ectrical Perforn	nance(电气性能)	
4.2.1	Contact Resistance 接触阻抗	(EIA-364-06B) 适合USB 3.1 TYPE-C嵌合;开放电压20mv以下; 短路电流100ma的状态下测定。 Mate applicable USB 3.1 TYPE-C and measure by dry circuit, 20mv MAX, 100mA. 40mΩMAX	40mΩ MAX
4.2.2	Dielectric Withstanding Voltage (耐电压)	(EIA-364-20C) Unmated connectors, apply 100V AC (RMS.) for 1 minute between adjacent terminals of ground. 没有配对的连接器在相邻的端子或接地之间通上100V的交流电压1分钟	1. No Breakdown or flashover 2. Leakage current:0.5mA Max 1. 不能有损坏或跳火花 2. 漏电流<0.5mA
4.2.3	nsulation Resistance 绝缘阻抗	(EIA-364-21C) Unmated connectors, apply 500V DC for 1 minute between adjacent terminals of ground. 没有配对的连接器在相邻的端子或接地之间通上 500V的直流电压1分钟	100MΩ min(unmated) 没有配对需大于100 MΩ
4.3Me	chanical Perfor	mance(机械性能)	

No peeling off the plating

4.3.1	Insertion/Wit hdrawal Force 插入力/拔出 力	(EIA-364-13) Insertion and withdrawal speed: 25mm/minute. 插入和拔出的速度为25mm/分	插入力 Insertion 0.50kgf/MIN,2.0kgf/MAX 拔出力 Withdrawal 0.80kgf/MIN,2.0kgf/MAX After 10000 cycles 0.6kgf/MIN,2.0kgf/MAX
4.3.2	Durability 寿命测试	(EIA-364-09) 适合USB 3.1 TYPE-C;用每分钟12.5mm的速度, 平行的插入,拔出。 Insert and extract applicable USB 3.1 TYPE-C at the speed rate of 12.5 mm/minute.	10000 cycles
4.3.3	Vibration 振动	(EIA-364-28条件3) Amplitude:1.52mm P-P or 147m/s^2 {15G} Sweep time: 50-2000-50Hz in 20 minutes. Duration: 12 times in each (total of 36 times) X, Y, Z, axes. Electrical load DC 100mA current shall be flowed during the test.(ANSI/EIA-364-28 Condition III) 在直流100毫安通电状态下测试,在X,Y,Z垂直3方向上,频率50-2000-50赫兹(加速度往复20分钟),全振幅1.52mm P-P或147 m/s^2 {15G},每轴12回计36回	Appearance: No damage 外观:无损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value:30mΩ Max. 端子:从初始值开始变化量小于30mΩ
4.3.4	Physical shock 冲击性	(EIA-364-27条件A) Pulse width: 11msec Waveform: Half-sine 490m/s²(50G)3 strokes in each X, Y, Z axes. (ANSI/EIA-364-27 condition A) 周期: 11msec 冲击波形: 正弦半波490m/s²(50G)3 循环在X, Y, Z 轴	Appearance: No damage 外观:无损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 40mΩ Max 端子:从初始值开始变化量小于40mΩ Discontinuity: 1μ sec Max. 间断性:不超过1微秒
ļ	vironmental Pe		
4.41	Thermal shock test 冷热冲击	EIA-364-32C条件1) 10 cycles of: a)-55±3℃ for 30 minutes b) +85±3℃ for 30 minutes 10个循环, a)-55±3℃ 30 分钟 b) +85±3℃ 30 分钟	Appearance: No Damage. 外观:没有损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 40mΩ Max 端子:从初始值开始变化量小 于40mΩ

	T	(	T
4.42	Solder ability		The inspected area of each lead
	焊锡性	To be sipped in the solder bath 260±5℃ Coverage	must have 90% solder coverage
		for 3 seconds.	minimum
		将焊锡脚浸在260±5℃的锡炉中<3秒	
4.43	Humidity 恒温恒湿	(EIA-364-31B) (A) Mate connectors together and perform the test as follows 配对的连接器测试条件 Temperature: +25℃ to +85℃(温度: +25℃到+85℃) Relative Humidity: 90% to 95%(相对湿度: 90%到95%) Duration:4 cycles(96 hours) (持续时间: 4个循环共96小时) Upon completion of the test, specimens shall be conditioned ambient room conditions for 24 hours, after which the specified measurements shall be performed. 试验完成后,样品放置于室温条件中24小时后再进行测试	Appearance: No Damage 外观,没有损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 30mΩ Max 端子: 从初始值开始变化量小 于30mΩ
		(EIA-364-31B) (B) Unmated each connector and perform the test as follows. 没有配对的连接器测试条件 Temperature: +25℃ to +85℃(温度: +25℃到+85℃) Relative Humidity: 90% to 95%(相对湿度: 90%到95%) Duration:4 cycles(96 hours) (持续时间: 4个循环共96小时)  Upon completion of the test, specimens shall be conditioned ambient room conditions for 24 hours, after which the specified measurements shall be performed. 试验完成后,样品放置于室温条件中24小时后再进行测试	Appearance: No Damage 外观,没有损坏 Conform to item of dielectric withstanding Voltage and Insulation Resistance. 符合耐电压及绝缘阻抗要求

4.44	Salt Spray 盐水喷雾	EIA-364-26B) Temperature: 35±2℃ 温度: 35±2℃ Concentration for salt: 5% 盐水浓度: 5% (1)Duration: 24H 持续时间: 24小时	No detrimental corrosion( Terminal solder tail unrequested) 产品无氧化,锈蚀(端子焊脚
		Condition(条件): Contact plated gold more than 15u" (include 15 u"), and the material of shell for copper alloy, or stainless. 端子镀金厚度大于等于15 u"且壳体材质是铜合金或是不锈钢 (2) Duration: H 持续时间: 24小时 Condition(条件): Contact plated gold less than 15 u", and/or the material of shell for steel 端子镀金厚度小于15u"且/或壳体材质是铁材	镀锡处不作要求)
4.45	Cold resistance (Unmated) 冷阻抗	(EIA-364-17B) Unmated connectors and expose to -25±3℃ for168 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. 没配对的连接器放置于-25±3℃温度中168小时,当完成实验后,样品放置一般环境中1到2小时后,在进行测试	
4.46	Heat resistance (Unmated) 热阻抗	(EIA-364-17B) Mated connectors and expose to 85±2℃ for168 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.  配对的连接器放置于85±2℃温度中168小时,当完成实验后,样品放置一般环境中1到2小时后,在进行测试	Appearance: No Damage. 外观:没有损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子:从初始值开始变化量小于30mΩ 外壳:从初始值开始变化量小于50mΩ

#### 4.4..7 Thermal (EIA-364-31B, Condition 4, Method A) Appearance: No Damage. Aging Unmated connectors and expose to $+85\pm2^{\circ}\mathrm{C}$ for 外观:没有损坏 Contact Resistance 接触阻抗 高温老化 250 hours. Upon completion of the exposure Contact: Change from initial period, the test specimens shall be conditioned at Value 40mΩ Max ambient room conditions for 1 to 2 hours, after which the specified measurements shall be 端子: 从初始值开始变化量小 performed. 于40m 没配对的连接器放置于+85±2℃温度中250小时, 当完成实验后,样品放置一般环境中1到2小时 后,在进行测试 for wave soldering: mil-std-202f, method 210 4.4.8 Resistance to No physical damage shall occur. 不可有损坏 Soldering A,test condition B 波峰焊: mil-std-202f, method 210 A, 试验条件B Heat Pre-heat :80℃,60 Seconds 预热:80℃,60秒 Temperature : 260 ± 5 ℃ 温度:260±5℃ Immersion duration: 10 ± 1 sec. 浸泡时间:10±1秒 for manual soldering:手动焊接: mil-std-202f,method 210 A,test condition A Pre-heat : No预热:没有 Temperature : 350 ± 10 ℃温度:350±10℃ Immersion duration: 3.5±0.5 sec. 浸泡时间: 3.5±0.5 Solder Temp: 260±5 °C,10±0.5sec 焊锡温度: 260±5℃,10±0.5sec 温度℃ 10s 260°C 升温速度 4℃/s 降温速度 4℃/s 220°C 180°C 100s 升温速度 4℃/s 温度曲线以本体作 120s 为测试点 时间 s Note 1: Shall meet visual requirements, show no physical damage, and meet requirement of additional tests as specified in the test sequence in Figures 2

说明1: 测试要求不能有物理损坏,测试依据表格二的顺序进行

3.Product Qualification And Requalification Test:产品测试顺序表 Figure 2

Test or Examination
ABCDDEFFGGHHI

 A
 B
 C
 D
 E
 F
 G
 H
 I
 J
 K
 L
 M
 N

 Test Sequence

 4.1.1.Examination of Product 产品外观
 1,3
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4.2.1.Contact	2,8		2,4		2,4	2,4	2,4		2,4	2,4	2,4	2,	2,4	
Resistance 接触阻												4		
4.2.2.Dielectric Withstanding	3,7													
4.2.3.Insulation Resistance 绝缘阻	4,6													
4.3.1.Insertion/With drawal force 插拔力		2												
4.3.2.Durability 寿命 测试			3											
4.3.3.Vibration 振动 性					3									
4.3.4.Physical shock 冲击性						3								
4.4.1.Thermal shock test 冷热冲击							3							
4.4.2.Solderability 焊锡性								2						
4.4.3.Humidity 恒温 恒湿	5								3					
4.4.4.Salt Spray 盐水 喷雾										3				
4.4.5.Cold resistance 冷阻抗											3			
4.4.6.Heat resistance 热阻抗												3		
4.4.7.Thermal Aging 高温老化													3	
4.4.8.IR-reflow 回流 焊测试														2
NO. of Test samples(Min.) 测试	5	5	5	5	5	5	5	5	5	5	5	5	5	5

NOTE 2: (a) Numbers indicate sequence in which tests are performed.

(b) Discontinuities shall not take place in this test group, during tests.

说明 2: (a)测试依照矩阵要求数量进行。

(b)在测试中,群组测试不能间断

核准: 唐竹君 制作人: 魏红



### 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	TYPE C 16P SMT 带耳有柱 1.0	測試日期 Date of Testing	2022.08.02 2022.08.04	報告編	號 Repo	or t NO.	ME	20220	804-0	)1
	產品型號 Part Name	U572-A14B-G31038	樣品數量 Quantity	5PCS		環境 Mea nvironme		I	emp:18 f R.H.:49		
一•電	性測試 ELEC	TRICAL TEST									
		測試言					錄 Testin	ıg Result			定 dge
序 號 NO.	測試項目 Testing Item	測試條件 Tes ting Con di tions	測試設備 Testing Equipment	規格 SPEC	1	2	3	4	5	Pass	Fail
1	Contact resis tance	Test current:100mA max	DIGITAL MICRO— OHMMETER	40 m Ω Max	14.77 m Ω	15.42 m Ω	15.86 mΩ	16.37 m Ω	17.53 m Ω	Р	
2	In sula tion resis tance	Test voltage:500VDC Operation stated:1min	ULTRA HIGH RESISTANCE METER	100 mΩ Min	Pass	Pass	Pass	Pass	Pass	Р	
3	Dielec tric withstand voltage	Test voltage:100VAC Cut—off current:0.5mA Operation stated:1 min	BREAKDOWN TESTER	No discharge or flashover occur	Pass	Pass	Pass	Pass	Pass	Р	
二. 機	機特性測試	MECHANICAL TEST							1	1	
	NHI N-F H	NTO NAME OF	7047 V74 V44	規格 SPEC		測試記録	錄 Testin	ıg Result		判定 Judge	
序號 NO.	測試項目 Testing Item	測試條件 Tes ting Con di tions	測試設備 Testing Equipment		1	2	3	4	5	Pass	Fail
1	Durability test	Ra te:200cycles/hour Total: 10000 cycles	LIFE TESTER FOR CONNECTOR	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
2	Mating Force	5N-20Newtons maximun at a maximum rare of 12.5mm per minute	Insertion force testing machine	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
	Un—Mating Force	8N-20N NewtNewtonso ns m minimuminimum at a maximum rare of 12.5mm per minute	Insertion force testing machine	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
三.環	境特性測試।	ENVIRONMENTAL TEST									
序號 NO.	測試項目 Testing Item	測試條件 Tes ting Con di tions	測試設備 Testing Equipment	規格 SPEC		測試記録	錄 Testin	g Result		1	定 dge
110.	. 553.119 110111	resting Con di tions	. com.g _qaipinont		1	2	3	4	5	Pass	Fail
1	Humidi ty— Tempera ture cycle	Temperature: 40±2°C Dura tion :168H	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	

2	Heat test	Temperature: 70±2°C Dura tion :168H	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	Р		
---	-----------	--	------	--------------------	------	------	------	------	------	---	--	--

3	Cold test	Temperature: -25 ±3°C Dura tion :168H	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
4	Tempera ture cycling test	Temperature: 70—25 C Duration:5 cycle	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	<b>No physical</b> damage	Pass	Pass	Pass	Pass	Pass	Р	
四.物	理測試 PHYS	ICAL TEST									
序	測試項目 Testing Item	測試條件 Testing Con di tions	測試設備 Testing Equipment	規格 SPEC		測試記	錄 Testin	g Result		判 Juo	定 lge
NO.	resumg item	resumg con artions	resting Equipment	OI LO	1	2	3	4	5	Pass	Fail
1	Salt spray test	Temperature: 35±2°C Concentration:5±1 % Duration:24H	SALT SPRAY TESTER	No Oxidation	Pass	Pass	Pass	Pass	Pass	Р	
2	Solder ability test	Temperature: 260 土 5°CDura tio n:10 ±1	OVEN	NO physical damage	Pass	Pass	Pass	Pass	Pass	Р	
3	Solder ability test	sec Temperature: 260 ±10 C Dura tion :10 ±1 sec	CONTROLLED CONSTANT-TEMP SOLDER POT	Soldering area <u> </u>	Pass	Pass	Pass	Pass	Pass	Р	
	判定 Result	■合格(ACCI	EPT)	Γ	」不合	格(REJ	ECT)				

核准(Approver): 欠必锋

測試(Tester): 但芬

## **FLWCONN®** 深圳市华联威电子科技有限公司

# 檢驗報告

■ 自1	牛險驗 口入庫	L 饮歌 L i	<b></b>	い ロ	各返傚	「「一」	<b>迟</b> 科饮	駅 🏻	丹他		2022	‡08月05⊨	l 版-火:A1
料號	U572-A14B-	G31038	制令	單號		/	送檢	單位	I	程部	首件	製作者	裝配
品名	TYPE C 16P SM	T带耳有柱	安 与	代號		/	批	量		/		<b>僉時間</b>	1
пп, п	1. 0		- 🗆 /	1 4300		•	數	量	5	PCS		忍時間	1
	抽樣標準			■單:	次	□雙次			羊数	AQL		MAJ:0.40	MIN:0.65
	MIL-STD-1051	E(II)		正常	□ <b>力</b> □	嚴 🗆	减量	( 5P	CS)	ACC/REJ	0	/	/
不	良 数:	CRI (	/	) N	IAJ (	/	) M	IN (	/	)	不良	學率(%)	/
NO.	檢驗項目	檢測		檢	驗記	錄		品管	判定	CRI	MAJ	MIN	備注
110.	單位:MM/G	儀器	1	2	3	4	5	AC	RE	Citi	1717 13	171117	
	0.25±0.20	D	0.26	0.25	0.25	0.26	0.24	√					
	0.67±0.20	D	0.67	0.68	0.67	0.66	0.68	$\checkmark$					
	2.40±0.20	D	2.41	2.42	2.42	2.43	2.42	<b>√</b>					
	10.34±0.20	D	10.34	10.32	10.32	10.31	10.31	<b>√</b>					
	11.04±0.20	D	11.04	11.03	11.02	11.02	11.03	<b>√</b>					
	19.56±0.20	D	19.57	19.56	19.54	19.56	19.54	<b>√</b>					
	15.10±0.20	D	15.10	15.12	15.13	15.12	15.13	<b>√</b>					
	6.69±0.20	D	6.70	6.68	6.68	6.70	6.69	<b>√</b>					
	2.56±0.04	D	2.57	2.56	2.57	2.58	2.56	<b>√</b>					
	2.00±0.20	D	2.03	2.02	2.01	2.03	2.02	√					
	2.17±0.20	D	2.03	2.16	2.18	2.19	2.16	√					
	2.28±0.20	D	2.28	2.27	2.28	2.29	2.29	$\checkmark$					
	5.46±0.20	D	5.48	5.46	5.47	5.46	5.47	√					
	0.80±0.20	D	0.82	0.83	0.84	0.83	0.82	√					
檢驗的		 呈圖紙>>	□<<	<b>檢驗</b> 規	[範>>	□<<夷	· 《認書>	·> []	樣品	口其它			
檢測		B千分尺	C厚薄	儀 D投	影鏡 E	放大鏡	F顯微錐	竟 G錫	爐 H	插拔力器	I間位尺	· J其它	
品保	判定:												
	核 准 APP	久	《必锋			核 HK		/		檢驗 INSPI		但	3芬

保存部門:品保部 保存期限:三年 QR-M-003

### FLWCONN®

### 深圳市华联威电子科技有限公司

### 电镀报告表

品名:HMD9 7 %D CAH %S (端子) 版次:A. 0 电镀规格:Ni30u", Sn100u", Au G/Fu" 日期:2022-07-04 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	30u″MIN	50. 5u"	OK	2022/7/4	10:20:15
2	30u″MIN	56. 3u"	OK	2022/7/4	10:20:17
3	30u″MIN	67. 5u"	OK	2022/7/4	10:20:19
4	30u″MIN	62. 4u"	OK	2022/7/4	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	100u"MIN	105. 3u"	OK	2022/7/4	10:25:10
2	100u"MIN	104. 7u"	OK	2022/7/4	10:25:12
3	100u"MIN	105. 9u″	OK	2022/7/4	10:25:14
4	100u"MIN	107. 4u"	OK	2022/7/4	10:25:16

#### 3、表层电镀测试(Au)

数据	测试标准	实测值	判定	测试日期	测试时间
1	0.5u"MIN	0. 52u"	OK	2022/7/4	10:30:32
2	0.5u"MIN	0. 55u"	OK	2022/7/4	10:30:34
3	0.5u"MIN	0.53u"	OK	2022/7/4	10:30:36
4	0.5u"MIN	0.54u"	OK	2022/7/4	10:30:38

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:HMD9 7 % D' GAH
 % \$ (外売)
 版次:A. 0

 电镀规格:Ni:50u"MIN
 日期:2022/07/20
 页次:1/1

厂商:金和源

测试设备:CMI X-射线膜厚测试仪

#### 1、表层电镀测试(Ni)

数据	测试标准	实测值	判定	测试日期	测试时间
1	50u"min	55. 2u"	OK	2022/7/20	14:35:05
2	50u″min	51. 3u"	OK	2022/7/20	14:35:07
3	50u"min	58. 6u"	OK	2022/7/20	14:35:09
4	50u″min	56.8u″	OK	2022/7/20	14:35:11

核准:欠必锋 审核:刘联英 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-1345
METHOD	NEUTRL SALT SPRAY CORROSION TEST	REF	MIL 010 1010
客户		试验起始日期	2022年08月04日 20:00 时起
谷尸		DATE	2022年08月05日 20:00 时止
样品名称:	····HMD9·7·%*D·GAH %'\$	试验数量	5PCS
P/N	U) +&! 5%(6!; ' %\$',	QTY	

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: 24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)

002111011 0:0 =	o managarra accaration incompany of Green correspond	products are acceptable,
样品序号	试验后现象	判定
件邮片与	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	20 10 10 10 10 10 10 10 10 10 10 10 10 10	钜鼎銅材廠檢驗報告單				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	Co	il 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	\	\	\	\		1	
實測 Actual	\	178	574	5	\	\	\		\	

品質部

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

### 材质证明书(2020/A) MATERIAL CERTIFICATE

生产	厂家	S	SHNZHEN	CITY	XINQIA	METAL	PRODU	ICTS C	O. LTD	生产编号	B201	91101	开立日期 Issue Date	2019.11、5	证明书编号 Certificate No	20191105-0
钢种	名称			SUS	304	1\2H				订单编号 Order No	J	IS	依据规范 By Standard			
项目 Item	钢卷 Coi	编号 I No	Thic	(mm) kness		(mm) idth	长 Ler	度 ngth	数量 Quant	重量(K Weight(		成品表	面加工			
1 2 3 4 5 6			0	.3	29	96	CC	DIL	1	1400						
	С	Si	化学点 Mn	战份Che ₽	mical C	Cr	tion (	% ) Mo	N	标准 Spec	硬度 Hardness	降伏强度 (N/mm²) Yield stress	引张强度 (N/mm²) Tensile Stress	伸长率(%) Elongation	弯曲试验 Bend Test	
标准 Spec	0.080 max	0.750 max	2.000 max	0.045 max	0.030 max	18.00 20.00	8.00 10.50			试片编号 Specimen	270-290HV	865 min	1059 min	-		
1 2 3 4 5 6	0.042	0.320	1.180	0.031	0.006	18.03	8.01			20140328-01	270	497	870	东莞	OK	

可能与此表中所列出的数据有所不同.

Data shown are typical, For reference only, and should not be construed as maximum or minimum values for specification or for final design data. On any particular piece of material may vary from those shown herein.

Only discrepancy pls contact of within 3 days

技术部经理 Manager

### 材质证明

Material identification

厂商 Customer: 东莞市三鑫塑胶原料有限公司

名称 Material name: 聚己二酰丁二胺

规格 Specifications: PA46 黑色 防火 VO

说明 Description: 材料包含 PA46 纯树脂+波纤及少量添加剂。

### 物料成份表

#### Chemicai composition of

	规格 Grade	PA46 BK VO	
С	组成 hemicai composition	分子式 Molecular formula	含量(%) Content(%)
1	PA46 树脂	聚己二酰丁二胺	≧ 69.69%
2	波纤	SiO <sub>2</sub>	30%
3	添加剂	N.A.	≦0.31



**Test Report** No. CANEC2119174201 Date: 22 Oct 2021 Page 1 of 4

SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: C2680 Terminal

SGS Job No. : CP21-055214 - GZ

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

Date of Sample Received: 18 Oct 2021

Testing Period: 18 Oct 2021 - 22 Oct 2021

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).

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

Mercury, Cadmium, Hexavalent chromium 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

Allie Chen

Allie Chen
Approved Signatory





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0663 t (86–20) 82155555 0663 t (86–20) 82155555



#### **Test Report** No. CANEC2119174201 Date: 22 Oct 2021 Page 2 of 4

Test Results:

#### Test Part Description:

Specimen No. SGS Sample ID Description

CAN21-191742.001 SN<sub>1</sub> Silver-grey/brassy metal

#### Remarks:

(1) 1 mg/kg = 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

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, Test Method: 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)	1,000	mg/kg	2	44
Mercury (Hg)	1,000	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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586

- (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/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> 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.



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No. CANEC2119174201

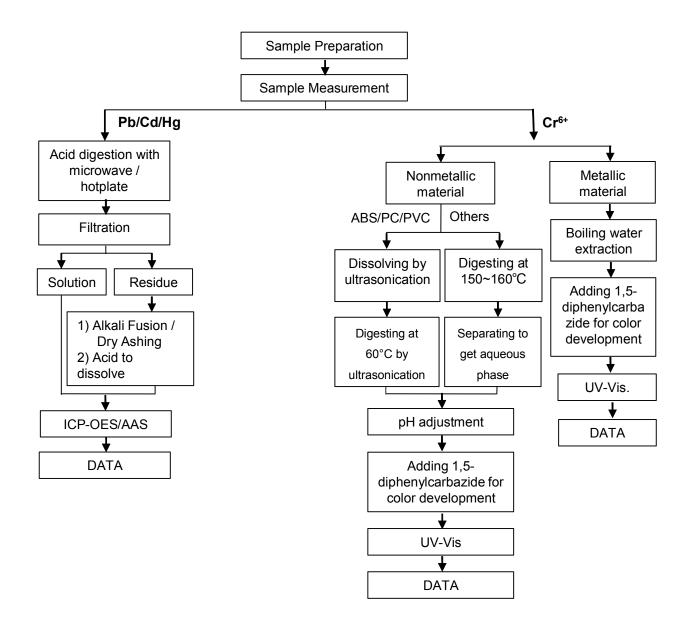
Date: 22 Oct 2021

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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. (Cr<sup>6+</sup> test method excluded).





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Date: 22 Oct 2021

Sample photo:



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



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**Test Report** No. CANEC2119174205 Date: 22 Oct 2021 Page 1 of 4

SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: SUS304 hardware

SGS Job No. : CP21-055214 - GZ

Model No.: SUS304

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

Date of Sample Received: 18 Oct 2021

Testing Period: 18 Oct 2021 - 22 Oct 2021

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).

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

Mercury, Cadmium, Hexavalent chromium 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

Allie Chen

Allie Chen
Approved Signatory





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#### **Test Report** No. CANEC2119174205 Date: 22 Oct 2021 Page 2 of 4

Test Results:

#### Test Part Description:

Specimen No. SGS Sample ID Description CAN21-191742.005 SN<sub>1</sub> Silver-grey metal

#### Remarks:

(1) 1 mg/kg = 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

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586

- (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/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> 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.



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No. CANEC2119174205

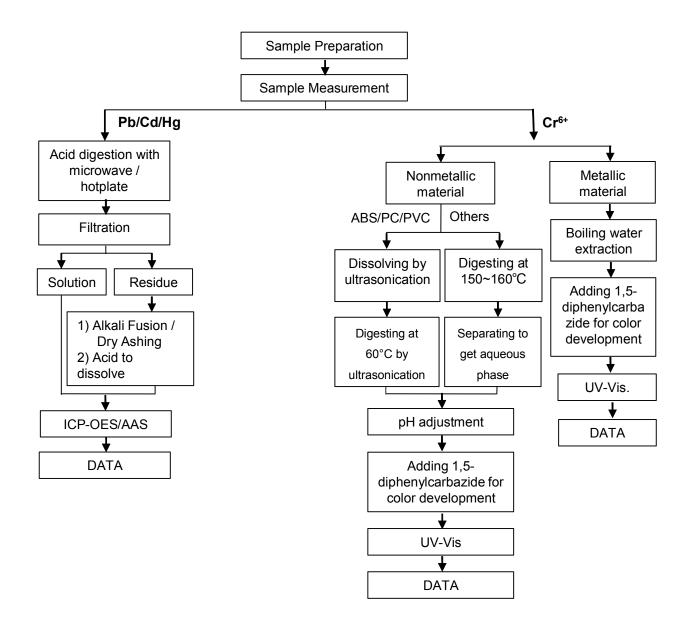
Date: 22 Oct 2021

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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. (Cr<sup>6+</sup> test method excluded).





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Date: 22 Oct 2021

Sample photo:



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Test Report No. CANEC2119174212 Date: 22 Oct 2021 Page 1 of 6

SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: PA46 black plastic

SGS Job No.: CP21-055214 - GZ Model No.: PA46 black plastic

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

Date of Sample Received: 18 Oct 2021

Testing Period: 18 Oct 2021 - 22 Oct 2021

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).

Conclusion: Based on the performed tests on selected part of submitted sample(s), the

> results of Lead, 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

Allie Chen

Allie Chen Approved Signatory





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#### **Test Report** No. CANEC2119174212 Date: 22 Oct 2021 Page 2 of 6

Test Results:

#### Test Part Description:

Specimen No. SGS Sample ID Description SN<sub>1</sub> CAN21-191742.012 Black plastic

#### Remarks:

(1) 1 mg/kg = 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

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, 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>012</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
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



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Test Report	No. CANEC21191742	12	Date: 2	22 Oct 2021	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>012</u>	
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)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutvl Phthalates (DIBP)	1.000	ma/ka	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 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37,25
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.



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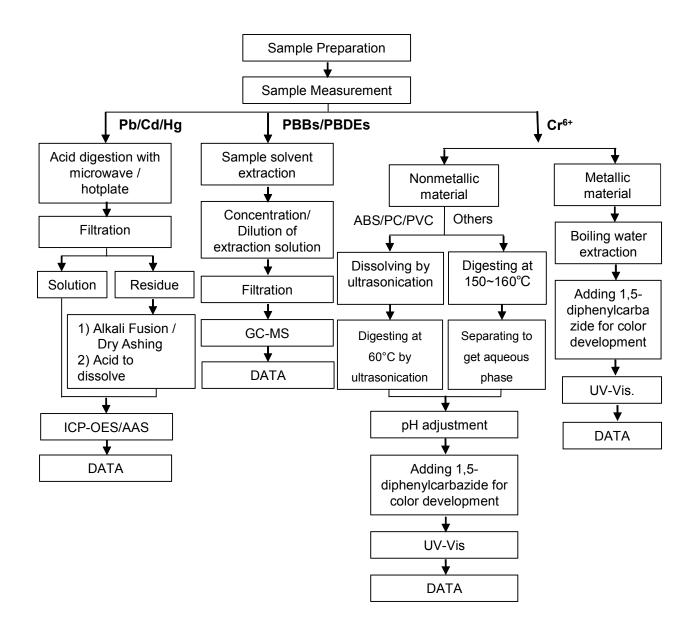
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#### **ATTACHMENTS**

#### 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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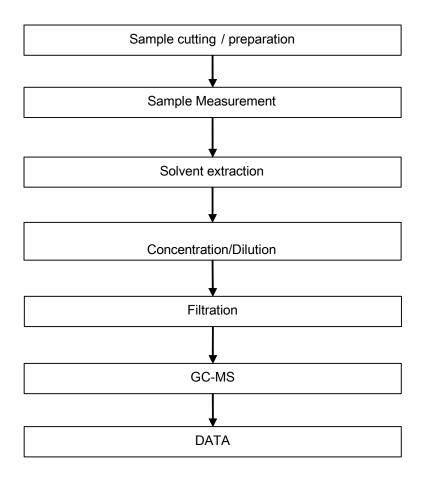
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#### **ATTACHMENTS**

#### **Phthalates Testing Flow Chart**





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**Test Report** No. CANEC2117633803 Date: 27 Sep 2021 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD
TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

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

SGS Job No. : CP21-051017 - SZ

Date of Sample Received: 18 Sep 2021

Testing Period: 18 Sep 2021 - 27 Sep 2021

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).

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

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

Allie Chen

Allie Chen Approved Signatory





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#### **Test Report** No. CANEC2117633803 Date: 27 Sep 2021 Page 2 of 8

Test Results:

#### Test Part Description:

Specimen No. SGS Sample ID Description

> SN<sub>1</sub> CAN21-176338.003 Silver-gray plated metal

#### 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

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>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	37
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	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
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



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No. CANEC2117633803		Date: 27 Sep 2021		Page 3 of 8
<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
	Limit 1000 1000	Limit Unit - mg/kg - mg/kg - mg/kg - mg/kg - mg/kg - mg/kg 1000 mg/kg 1000 mg/kg	Limit         Unit         MDL           -         mg/kg         5           -         mg/kg         5           -         mg/kg         5           -         mg/kg         5           1000         mg/kg         50           1000         mg/kg         50           1000         mg/kg         50	Limit         Unit         MDL         003           -         mg/kg         5         ND           -         mg/kg         5         ND           -         mg/kg         5         ND           -         mg/kg         5         ND           1000         mg/kg         50         ND           1000         mg/kg         50         ND           1000         mg/kg         50         ND           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 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37.25
- (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



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Notes:

(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-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH(OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N( $C_2H_5$ )<sub>4</sub> (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



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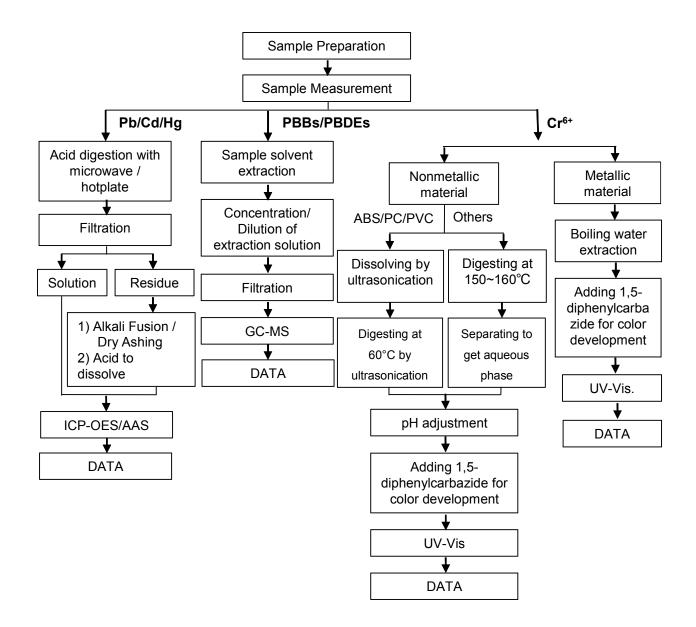
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#### **ATTACHMENTS**

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

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).





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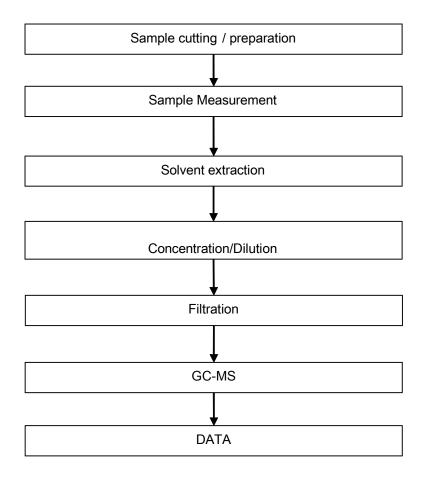
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#### **ATTACHMENTS**

## **Phthalates Testing Flow Chart**





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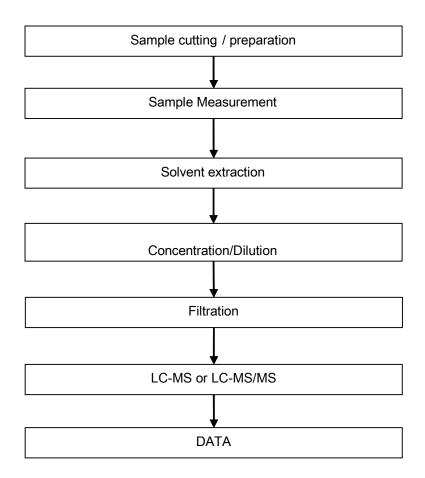
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#### **ATTACHMENTS**

## PFOA / PFOS Testing Flow Chart





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Sample photo:



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**Test Report** No. CANEC2117633802 Date: 27 Sep 2021 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD
TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

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

SGS Job No. : CP21-051017 - SZ

Date of Sample Received: 18 Sep 2021

Testing Period: 18 Sep 2021 - 27 Sep 2021

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).

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

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

Allie Chen

Allie Chen Approved Signatory





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#### **Test Report** No. CANEC2117633802 Date: 27 Sep 2021 Page 2 of 8

Test Results:

## Test Part Description:

Specimen No. SGS Sample ID Description

SN<sub>1</sub> CAN21-176338.002 Silver-gray plated metal

#### 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

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.

Cadmium (Cd)         100         mg/kg         2         ND           Lead (Pb)         1,000         mg/kg         2         29           Mercury (Hg)         1,000         mg/kg         2         ND           Hexavalent Chromium (Cr(VI))▼         -         μg/cm²         0.10         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	Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Mercury (Hg)         1,000         mg/kg         2         ND           Hexavalent Chromium (Cr(VI))▼         -         μg/cm²         0.10         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	Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼-μg/cm²0.10NDSum of PBBs1,000mg/kg-NDMonobromobiphenyl-mg/kg5NDDibromobiphenyl-mg/kg5NDTribromobiphenyl-mg/kg5NDTetrabromobiphenyl-mg/kg5ND	Lead (Pb)	1,000	mg/kg	2	29
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	Mercury (Hg)	1,000	mg/kg	2	ND
Monobromobiphenyl-mg/kg5NDDibromobiphenyl-mg/kg5NDTribromobiphenyl-mg/kg5NDTetrabromobiphenyl-mg/kg5ND	Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Dibromobiphenyl - mg/kg 5 ND Tribromobiphenyl - mg/kg 5 ND Tetrabromobiphenyl - mg/kg 5 ND	Sum of PBBs	1,000	mg/kg	-	ND
Tribromobiphenyl - mg/kg 5 ND Tetrabromobiphenyl - mg/kg 5 ND	Monobromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl - mg/kg 5 ND	Dibromobiphenyl	-	mg/kg	5	ND
	Tribromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl - mg/kg 5 ND	Tetrabromobiphenyl	-	mg/kg	5	ND
	Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl - mg/kg 5 ND	Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl - mg/kg 5 ND	Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl - mg/kg 5 ND	Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl - mg/kg 5 ND	Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl - mg/kg 5 ND	Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs 1,000 mg/kg - ND	Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether - mg/kg 5 ND	Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether - mg/kg 5 ND	Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether - mg/kg 5 ND	Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether - mg/kg 5 ND	Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether - mg/kg 5 ND	Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC21176338	02	Date: 2	27 Sep 2021	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
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 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37.25
- (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>002</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



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Notes:

(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)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



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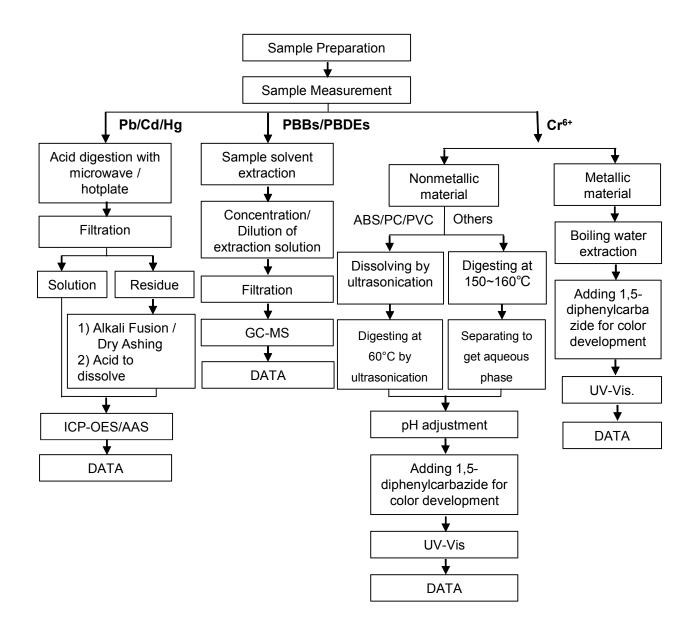
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#### **ATTACHMENTS**

## 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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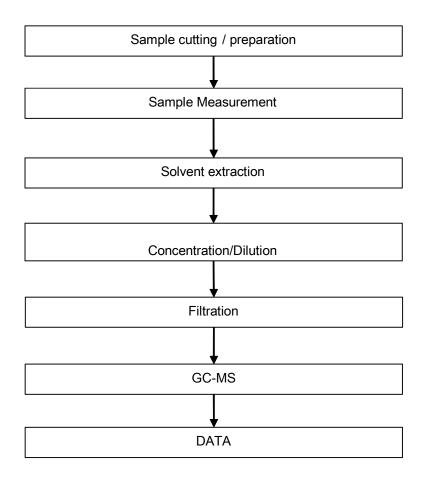
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#### **ATTACHMENTS**

## **Phthalates Testing Flow Chart**





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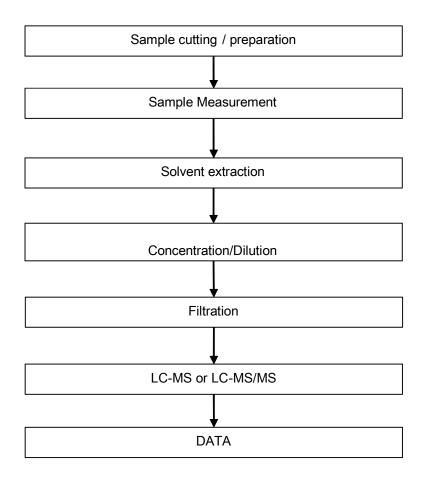
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## PFOA / PFOS Testing Flow Chart





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Sample photo:



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**Test Report** No. CANEC2117633801 Date: 27 Sep 2021 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD
TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

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

SGS Job No. : CP21-051017 - SZ

Date of Sample Received: 18 Sep 2021

Testing Period: 18 Sep 2021 - 27 Sep 2021

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).

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

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

Allie Chen

Allie Chen Approved Signatory





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#### **Test Report** Page 2 of 8 No. CANEC2117633801 Date: 27 Sep 2021

Test Results:

#### Test Part Description:

Specimen No. SGS Sample ID Description SN<sub>1</sub> CAN21-176338.001 Gold plated metal

#### 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

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)	1,000	mg/kg	2	73
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	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
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



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<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
	Limit 1000 1000	Limit Unit - mg/kg - mg/kg - mg/kg - mg/kg - mg/kg - mg/kg 1000 mg/kg 1000 mg/kg	Limit         Unit         MDL           -         mg/kg         5           -         mg/kg         5           -         mg/kg         5           -         mg/kg         5           1000         mg/kg         50           1000         mg/kg         50           1000         mg/kg         50           1000         mg/kg         50	Limit         Unit         MDL         001           -         mg/kg         5         ND           -         mg/kg         5         ND           -         mg/kg         5         ND           -         mg/kg         5         ND           1000         mg/kg         50         ND           1000         mg/kg         50         ND           1000         mg/kg         50         ND           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 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37.25
- (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



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Notes:

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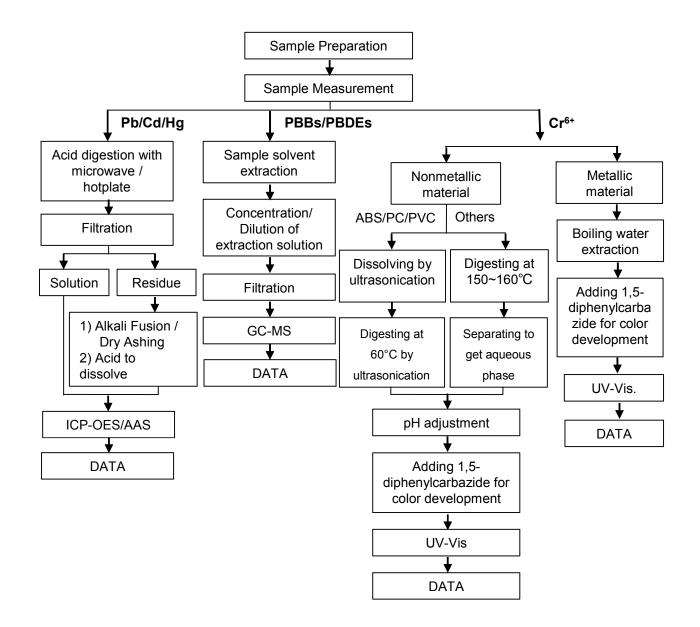
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#### **ATTACHMENTS**

## 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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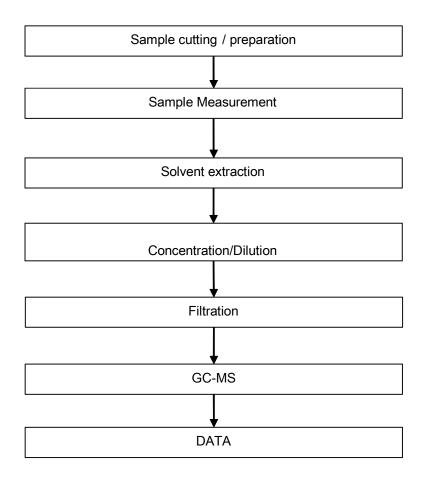


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## **Phthalates Testing Flow Chart**





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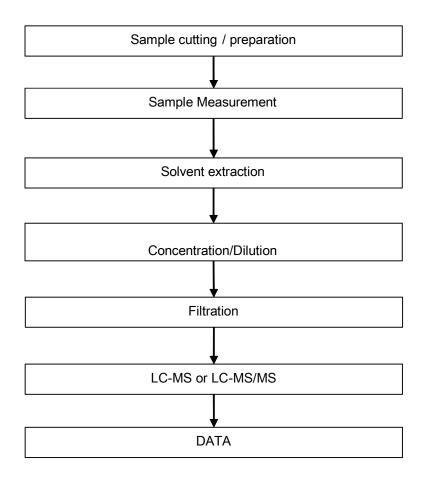
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#### **ATTACHMENTS**

## PFOA / PFOS Testing Flow Chart





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198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663

中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663

t (86–20) 82155555 t (86–20) 82155555



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