

承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N): /

华联威料号 (HLW P/N): DC JACK

品名规格 (PronameSpec): JK1-147-C188

送样日期 (Delivery Date):2021/11/17

承认日期 (Acknowledge Date):2021/11/20

Approved No:	客	户									
	Customer										
采 购 部	品 质 部	工程部	确认								
Purchasing Dept	QC Dept	Engineering Dept	Approved By								
深圳	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								
将成英	欠必锋	魏红	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

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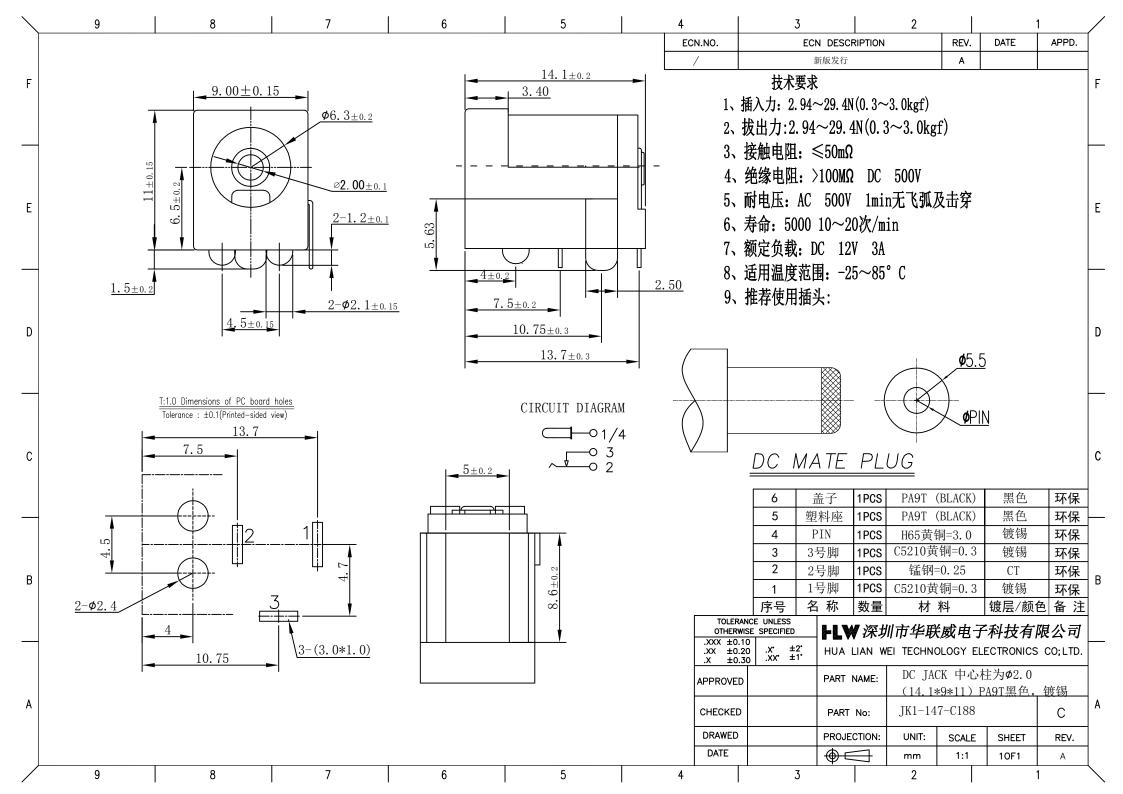


FLWCONN®

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▶ ■ 深圳市华联威电子科技有限公司

JACK系列產品SPEC

	TEST ITEM	REQUIREMENT	PROCEDURE
1	Examination of Product	Meets requirements of product drawing. No physical damage.	Visual inspection.
2	Operating Temperature	-25°C to 85 °C	
3	Storage Temperature	-25°C to 85 °C	
		ELECTRICAL REQUIREMEN	NT
4	Rating Voltage	12V AC max	on any signal pin with respect to the shield
5	Rating Current	3.0 A per contact	55°C, maximum ambient 85°C, maximum temperature change (ANSI/EIA 364-70, TP-70)
6	Contact Resistance	[50] m Ohm Max	Subject mated contacts assembled in housing to 20mV Max open circuit at 100mA Max. EIA-364-23.
7	Dielectric withstanding Voltage	No flashover ,no creeping discharge, no breakdown	500 VAC for 1 minute between adjacent terminals. EIA 364-20
8	Insulation Resistance	[100] M Ohm Min.	Mated connector with a voltage of 500V DC for 1 minutes between adjacent terminals EIA 364-21
9	Temperature Rising	30°C Max. Under loaded rating current	Contact series-wired, apply test current of loaded rating current to the circuit, and measure the temperature rising by probing on soldered areas of contacts, after the temperature becomes stabilized deduct ambient temperature from the measured value.
		Mechanical Requirement	
10	Connector Mating Force	3.0 kgf Max	Mating the connector with standard audio plug at a rate of 12.7 mm per minute EIA 364-13
11	Connector Unmating Force	0.30~3.0 kgf	Unmating the connector with standard audio plug at a rate of 12.7 mm per minute EIA 364-13
12	Durability	Visual Inspection-No physical damage LLCR-50 m Ω max per contact initial,100 m Ω after 5000 insertions.	Insertion and extraction with plug up to 5000 cycles at a maximum rate of 200 cycles per hour. EIA 364-09
13	Vibration	No discontinuity at 1 μ s or longer(each contact) when continuity is tested per ANSI/EIA-364-46	ANSI/EIA-364-28,Condition III,Method 5A,15 minute/axis
14	Mechanical Shock	No discontinuity at 1 μ s or longer(each contact) when continuity is tested per ANSI/EIA-364-46	ANSI/EIA-364-27 Condition A(specified pulse)
15	Solder ability	At least 95% of the immersed area shall be covered with new solder	1)Temperature of fused solder: 265+5°C°C. 2)Dipping time:5+0.5s EIA 364-52



▶ ■ 深圳市华联威电子科技有限公司

JACK系列產品SPEC

	TEST ITEM	REQUIREMENT						PR	ROCEDU	RE	
]	Environn	nental Re	quirements					
16	Resistance to Solder Heat	Forming resin shall not be distorted, and terminations shall not be separated.			1) Depth of dipping termination: the distance between the mounting surface and solder surface shall be 1 mm to 2mm. 2) Temperature: 265+5°C. 3) Dipping time: 10+1s Socket EIA 364-56						
17	Thermal Shock		cal damag per conta		amples an	d LLCR-50	− 55°C t		exposed to 0 minutes nes EIA		
18	Steady State Humidity	No physical damage to the samples and can pass the Dielectric Withstanding Voltage & Insulation Resistance			•				5% for or 24		
19	Temperature Life			•	ation reisis	tance)			Condition	4 105°C	for 168
17	(Heat Aging)	30 m ohr	ns Max (c	ontact res	sistance)		ł – – – – – – – – – – – – – – – – – – –	thod A,m		0714	
20	Salt Spray		Visual Inspection-No physical damageLLCR-50 m Ω max per contact					Mated connector expose to 5% salt concentration for 24 hours at temperature 3°C°C. AAftfterer thethe ttesestt ssppecimensecimens shshaallll bbee			re 35+2
			Product	Oualifica	ation and l	Requalificat	ion test				
		Ι	110000	Qualifica	ation and i	Test C					
Tes	st or Examination	A	В	С	D	E	F	G	Н	I	J
10.	or Damillation					Test Seque					
Exam	ination of Product	1, 7	1, 9	1, 6	1, 5	1, 5	1, 5	1, 5	1, 3	1, 3	1, 3
	ct Resistance		2, 8	2, 5	2, 4	2, 4	2, 4	2, 4			
	etric withstanding	3, 6									
	ation Resistance	2, 5									
	erature Rising		0.7						2		
	g Force		3, 7								
	ating Force	-	4, 6 5	 	1		1		1		
Dural Vibra		-	3	3			 		 		
	anical Shock	1		4	1		1		1		
	rability			<u> </u>							2
	tance to Soldering	1		1	1		1		1	2	
	nal Shock				3					_	
	dity Temperature	4				3					
	erature Life			<u> </u>			3				
Salt S	nrav							3			
	備注	無客戶	指定增加	1測試項	目外,包	 大照此標准	進行產品	品可靠性	上評估。		

審核:皮洪斌 制定: Hexing



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	DC JACK	測試日期 Date of Testing	2021.11.17 2020.11.20		報告編號 port N	t NO.	MD	20211 1	20-0)1
	產品型號 Part Name	JK1-147-C188	樣品數量 Quantity	5PCS	測試環境 Measuring Environmer				18~21°C :49%~57%		
一.電	性測試 ELECTRIC	CAL TEST									
						測試記錄	綠Testing	g Result	t	判定、	Judge
序 號 NO.	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipment	規格 SPEC	1	2	3	4	5	Pass	Fail
1	Contact resistance	Test current:100mA max	DIGITAL MICRO- OHMMETER	50 m Ω Max	18.45 m Ω	19.22 m Ω	18.13 mΩ	17.92 mΩ	18.68 m Ω	Р	
2	Insulation resistance	Test voltage:500VDC Operation stated:1min	ULTRA HIGH RESISTANCE METER	100 MΩ Min	Pass	Pass	Pass	Pass	Pass	Р	
3	Dielectric withstand voltage	Test voltage:500VAC Cut- off current:0.5mA Operation stated:1 min	BREAKDOWN TESTER	No discharge or flashover occur	Pass	Pass	Pass	Pass	Pass	Р	
二.機	械特性測試 MECH	HANICAL TEST									
序	測試項目	測試條件	測試設備	規格		測試記錄	綠Testing	g Result	判定Judge		
號 NO.	Testing Item	Testing Conditions	Testing Equipment	SPEC	1	2	3	4	5	Pass	Fail
1	Durability test	Rate:200cycles/hour Total: 5000cycles	LIFE TESTER FOR CONNECTOR	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
2	Mating Force	30 Newtons maximum at a maximum rare of 12.5mm(0.492") per minute	Insertion force testing machine	3.0kg max	Pass	Pass	Pass	Pass	Pass	Р	
3	Un-Mating Force	2.94Newtons minimum at a maximum rare of 12.5mm(0.492") per minute	Insertion force testing machine	0.3kg min	Pass	Pass	Pass	Pass	Pass	Р	
三.環	境特性測試 ENVI	RONMENTAL TEST									
序號	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipment	規格 SPEC		測試記錄	綠Testing	g Result	t	判定、	Judge
NO.				5. 20	1	2	3	4	5	Pass	Fail
1	Humidity- Temperature cycle	Temperature: 40±2°C Humidityy: 90~95% Duration:168H	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
2	Heat test	Temperature: 70 ±2°CDuration:96H	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	

3	Cold test	Temperature: −25 ±3°CDuration:168H	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
4	Temperature cycling test	Temperature:85~-25°C Duration:5 cycle	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
四.物	四.物理測試 PHYSICAL TEST										
序號	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipment	規格 SPEC	測試記錄Testing			g Resul	t	判定、	Judge
NO.					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	Resistance to soldering heat test	Temperature: 265±5°C Duration:10±1sec	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
3	Solder ability test	Temperature: 265±5°C Duration:5±0.5 sec	CONTROLLED CONSTANT-TEMP SOLDER POT	Soldering area	Pass	Pass	Pass	Pass	Pass	Р	
	判定 Result SOLDER POT										

審核(Approver): 汪志根 測試(Tester): 但芬

■首件檢験	險 □入庫檢驗 □	出貨檢	驗 口名	字退檢	驗口	退料模	魚験 🗆	1其他		2021年	F 11 月	20日 版	次: A1
料號	JK1-147-C18	8	制令国	單號	ı	/	送檢	單位		[程部		製作者	裝配
品名	DC JACK		客戶何	十號	,	/	批	量		1		☆時間	/
рр р							數	量	5	SPCS .		忍時間	/
	抽樣標準		l	單等	ζ []雙次		抽样		AQL		MAJ:0.40	MIN:0.65
M	IL-STD-105E(II)		正	常	□加膚	量	減量	(5PC	CS)	ACC/REJ	0	/	/
不良数:		CRI (/)	MAJ	(/)	MIN	(/)	不良	以率(%)	/
NO.	檢驗項目	檢測		檢	驗 記	錄		品管料	訂定	CRI	MAJ	MIN	件分
NO.	單位:MM/G	儀器	1	2	3	4	5	AC	RE	CKI	WIAJ	IVIIIN	備注
	9.00 ± 0.20	D	8.94	8.96	8.98	9.00	9.02	√					
	14.20±0.25	D	14.03	14.06	14.09	14.12	14.15	√					
	11.00±0.20	D	10.95	10.98	11.08	11.04	11.07	√					
	6.50±0.20	D	6.36	6.38	6.40	6.42	6.44	√					
	1.50±0.20	D	1.44	1.45	1.46	1.47	1.48	√					
尺	1.20±0.20	D	1.17	1.18	1.19	1.20	1.21	√					
寸	6.30±0.20	D	6.23	6.26	6.29	6.32	6.35	√					
	2.00±0.20	D	1.92	1.95	1.98	2.01	2.04	√					
測	4.00±0.15	D	3.97	3.98	3.99	4.00	4.01	√					
量	7.50±0.20	D	7.37	7.39	7.41	7.43	7.45	√					
里	10.75±0.20	D	10.65	10.68	10.71	10.74	10.77	√					
	2.50 ± 0.20	D	2.48	2.49	2.50	2.51	2.52	√					
	13.70±0.20	D	13.63	13.65	13.67	13.69	13.71	√					
												_	
檢驗依據:	<<工程圖紙>>	□<<;	檢驗規範	範>>	<u></u>	承認書	>> [1樣品		其它			
檢測儀器:	A游標卡尺 B千分尺	C厚薄	儀 D投景	ド鏡 E	放大鏡	F顯微		易爐 Hi	動拔え	力器 I間位	Z尺 J	其它	
品保判定:			合格Ac	cept		貨Reje	ect	□特爭	₹Wa	aive [Sort	
	核准		汪志根		審	核	χ̈́	联革		檢驗	員	旧	芬

保存期限:三年 保存部門: 品保部 QR-M-003



▶■ 深圳市华联威电子科技有限公司

电镀报告表

品名:DC JACK (端子) 版次:A.0 电镀规格:Sn:30u" 日期:2020-11-09 页次:1/1

厂商:同华

测试设备:CMI X-射线膜厚测试仪

1、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	30u"min	93. 4u″	OK	2020-11-09	19:17:14
2	30u"min	98. 6u″	OK	2020-11-09	19:18:50
3	30u"min	96. 3u″	OK	2020-11-09	19:21:11
4	30u"min	94. 5u″	OK	2020-11-09	19:23:05

核准: 汪志根 检验员: 但芬



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-1344			
METHOD	NEUTRL SALT SPRAY CORROSION TEST	REF	MIL OID TOTT			
客户		试验起始日期	2021年11月19日 20:00 时起			
谷 厂		DATE	2019年11月20日 20:00 时止			
样品名称	DC JACK	试验数量	5PCS			
P/N	JK1-147-C188	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,不包含镀锡区),即判定合格.

(Inspext the ecimen at 20 xmagnification no blue or green corrosion products are acceptable)

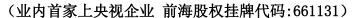
样品序号	试验后现象	判定
件加力与	PHENOMENON AFTER TEST	COMMENT
1	无蓝、绿色腐蚀物之现象	OK
2	无蓝、绿色腐蚀物之现象	OK
3	无蓝、绿色腐蚀物之现象	OK
4	无蓝、绿色腐蚀物之现象	OK
5	无蓝、绿色腐蚀物之现象	OK

核准: 汪志根 审核: / 试验员:但芬



YouHua Science and Technology Co.,Ltd.

深圳市优化新材料科技有限公司





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地址: 深圳市宝安公明镇塘尾优化工业园

网址:www.szyouhua.cn

物性表 PA9T 9T30FK

性能	Properties	测试标准 Standard	测试条件 Condition	单位 Unit	数值 Value
物理性能	Physical Properties				
密度	Specific Gravity	ASTM D792	23 ℃	g/cm³	1.62
-P. Tul. (<i>L. /e</i> -z	Mold Shrinkage,Flow	A CTM DOES	Cold mold, 48 hrs	%	0.1-0.6
成型收缩	Mold Shrinkage, Cross-Flow	ASTM D955	Cold mold, 48 hrs	%	0.1-0.6
吸水率	Moisture Absorption	ASTM D570	23 °C; 50 % RH	%	0.2
填充量	Filler Content		800°C/2h	%	30±3
机械性能	Mechanical Properties				
拉伸强度	Tensile Strength	ASTM D638	50mm/min	Мра	170
断裂伸长率	Elongation at Break	ASTM D638	50mm/min	%	2.5
弯曲强度	Flexural Strength	ASTM D790	3mm/min	Мра	230
弯曲模量	Flexural Modulus	ASTM D790	3mm/min	Мра	10000
悬臂梁冲击强度	Izod Impact, Notched	ASTM D256	23℃	J/m	80
熔融指数	MFR	ASTM D1238	320℃/2.16kg	g/10min	25
热性能	Thermal Properties				
热变形温度	HDT	ASTM D648	1.8 Mpa	$^{\circ}\! \mathbb{C}$	285
阻燃性能	Flammability	UL94	1.5mm		V-0
电性能	Electrical Properties				
体积电阻率	volume resistivity	IEC 60093		Ω·cm	1.0×10 ¹⁶
表面电阻率	surface resistivity	IEC 60243-1		Ω	1.0×10 ¹⁵
注塑工艺					
干燥温度 /时间	Drying temperatureand time			°C/hrs	140-150/5-8
加工温度	Processing temperature			$^{\circ}\!\mathbb{C}$	290-330
模温	Mold temperature			$^{\circ}\!\mathbb{C}$	70-160

备注:以上数据在优化公司实验室测得,真实可靠,但并非绝对值,并不作任何商业保证。

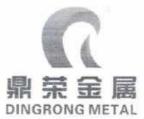
深圳市优化新材料科技有限公司

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地址:深圳市宝安公明镇塘尾优化工业园

更多信息请查阅优化新材料官网http://www.szyouhua.cn/



东莞市鼎荣金属材料有限公司

DongGuanDingRongMetalsMaterialCo..Ltd 产品质量证明书 CERTIFICATE OF QUALITY 电话: 0769-85220060 传真: 0769-85220061

网址: www.dingrongjinshu.com 邮箱: dingrong1978@163.com

地址: 东莞市虎门镇雅瑶怀雅大道73号

客户名称 Customer	4	半联威	产品名称 product name	C2680 (H65)
合同编号 Contract No	P0202	007070005	执行标准 Carried Standard	GB/T2059-2017
尺寸公差 (mm) Size Tolerance	厚度 (Thickness) 宽度 (Width)	0. 25 +0-0. 01 50/29 +0-0. 08	生产日期 Dete	2020/7/17

性能与含量

序号	批号 状态 卷数		規格及重量 Material Description			化学成份 Chemical compositon			物理性能 Physical Property					
NO.	Lot No.	Temper	Volume	厚度 Thick	宽度 Width	重量 Weight	铜Cu%	铅Pb%	铁Fe%	磷P%	锌Zn%	抗拉强度 (N/mm ²) Tensile Strength	延伸率 (%) Elongation	硬度值(HV) Hardness
1	QD5550-DR	ЕН	1	0. 25	- 50	153. 8	63.5~68	≤0.03	≤0.050	≤0.004	余量	490-590	Ç.	-160-180
2	QD5550-DR	EH	3	0. 25	29	267.6	64. 69	0.0051	0.0033	0.0017	余量	543	6	176
				ù⊢ (Tota							质量核	验验量材料		

- 一、到货后请立即验收并放于室内干燥处。
- 二、本材质证明书希妥善保管,如对我司产品品质与异议,持材质证明在一个月内与我司联系,我司将城城为品质是为用章
- 三、如有质量问题,请注明产品牌号、规格、状态、批号、收获日期等信息,以便于追溯与改进。
- 四、本材质证明涂改、复印无效。

品质主管: 范善益

审核人: 梅旭峰

检验人: 林和



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



Dongyu Xie
Approved Signatory



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t (86–20) 82155555 t (86–20) 82155555



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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No. CANEC2222380701

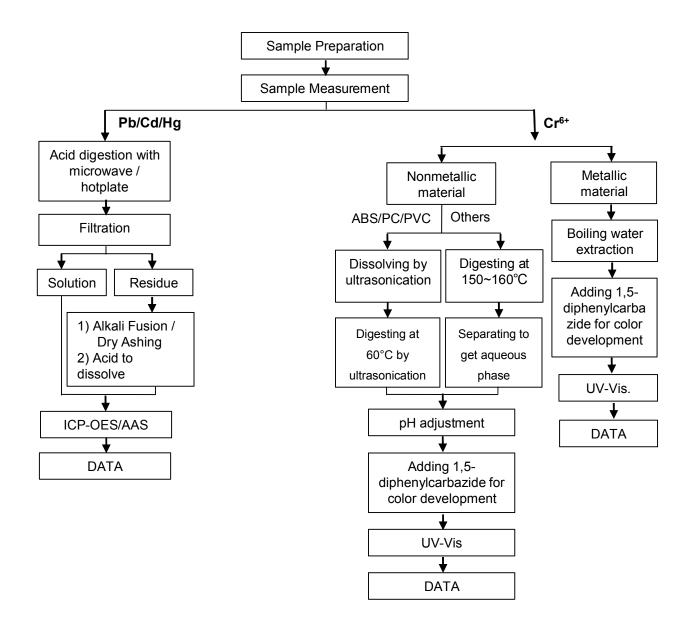
Date: 26 Oct 2022

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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

Page 4 of 4

Date: 26 Oct 2022

Sample photo:



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Test Report No. CANEC2222380713 Date: 26 Oct 2022 Page 1 of 6

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 : PA9T black plastic

Model No.: PA9T 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

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.

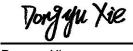
Test Method(s): Please refer to next page(s).

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, 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)	

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. CANEC2222380713 Date: 26 Oct 2022 Page 2 of 6

Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description SN1 CAN22-223807.013 Black plastic

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 62321-7-2:2017, 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>013</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	5
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1000	mg/kg	8	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. CANEC22223807	Date: 2	26 Oct 2022	Page 3 of 6	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</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) 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.

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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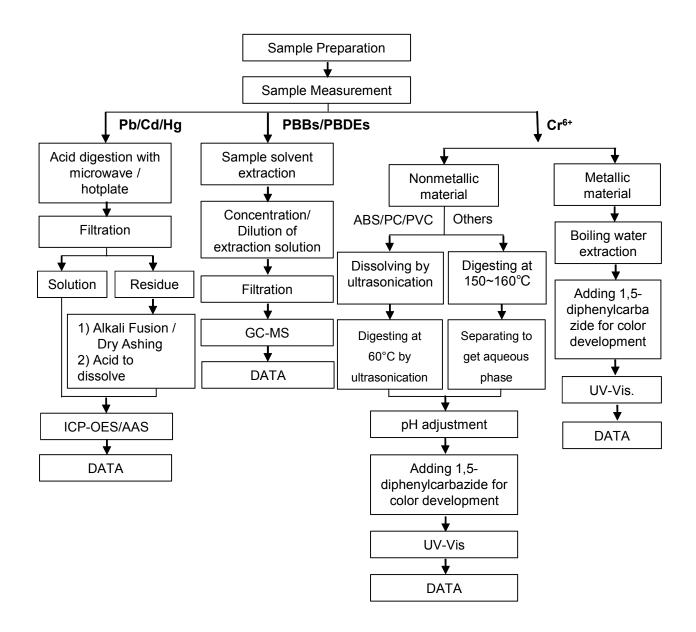
Date: 26 Oct 2022

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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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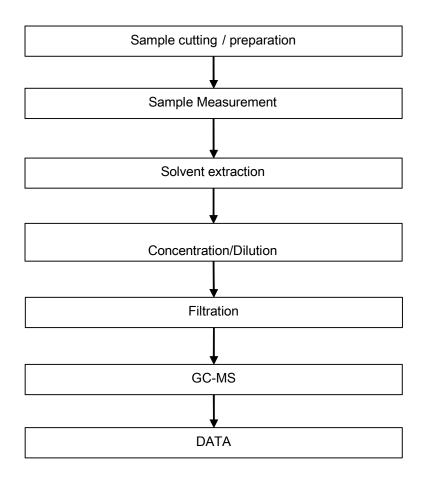
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Date: 26 Oct 2022

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Phthalates Testing Flow Chart





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No. CANEC2222380713

Date: 26 Oct 2022

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Sample photo:



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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. CANEC22182270	Date: 3	0 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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No. CANEC2218227001

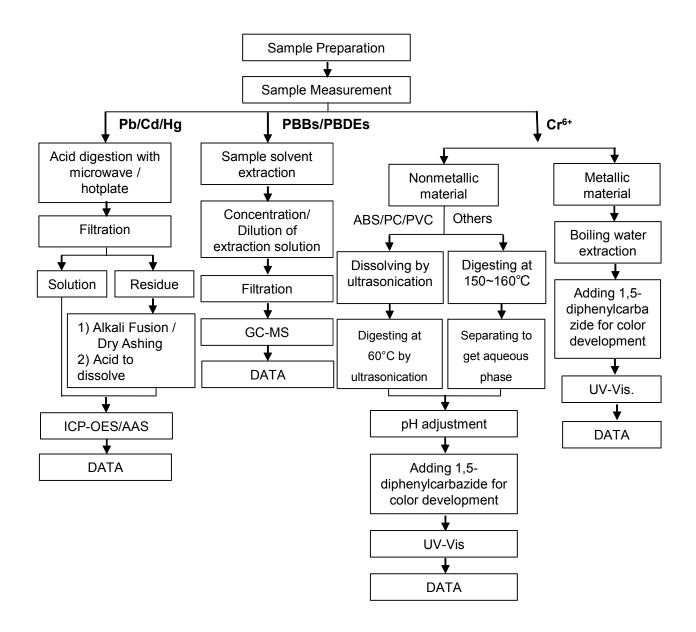
Date: 30 Aug 2022

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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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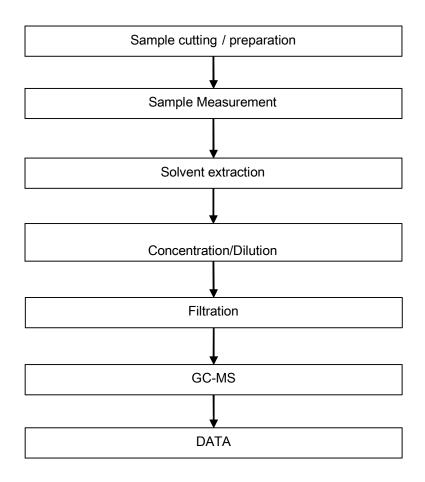


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Date: 30 Aug 2022 Page 6 of 8

ATTACHMENTS

Phthalates Testing Flow Chart





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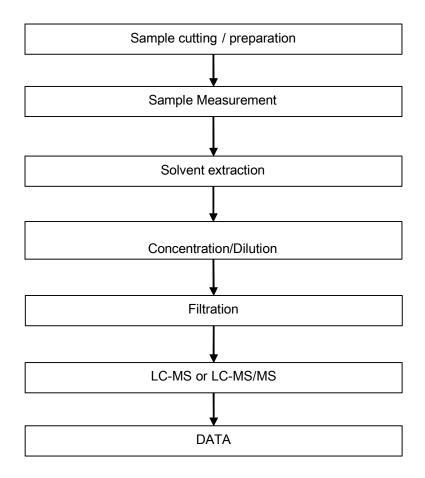
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ATTACHMENTS

PFOA / PFOS Testing Flow Chart





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No. CANEC2218227001

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Sample photo:



SGS authenticate the photo on original report only

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

Client Name: SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD

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.

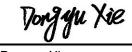
Test Method(s): Please refer to next page(s).

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



Dongyu Xie Approved Signatory





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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)

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)	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. CANEC22182270	03	Date: 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>	003
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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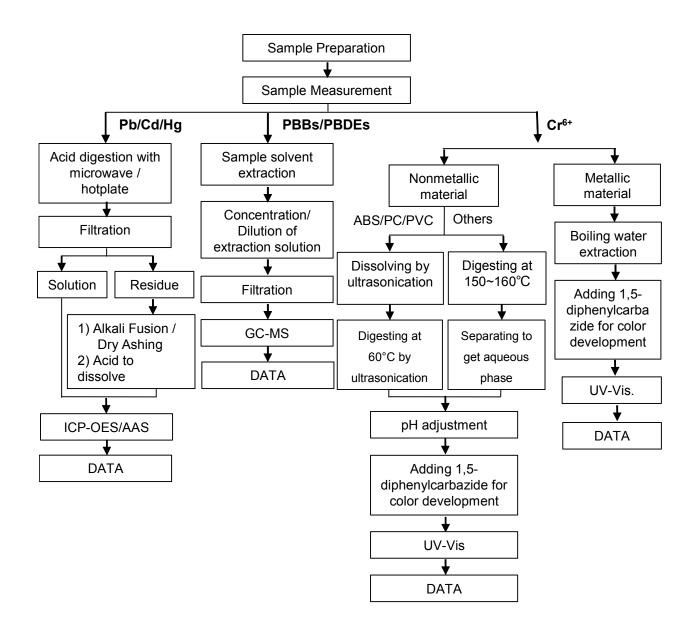
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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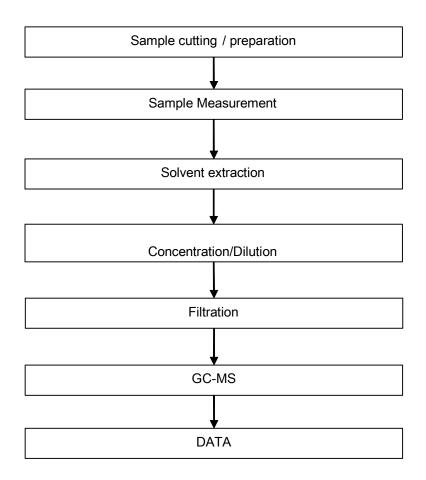


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Phthalates Testing Flow Chart





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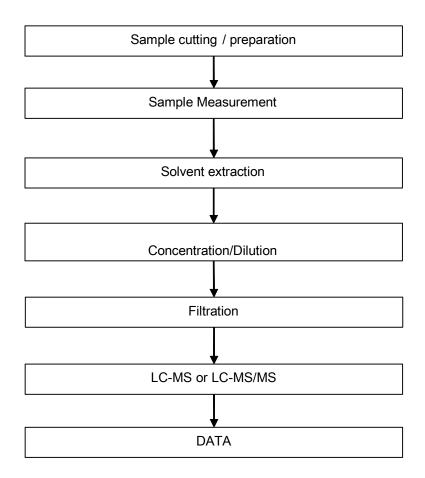
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PFOA / PFOS Testing Flow Chart





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