## 承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N):/

华联威料号 (HLW P/N): JK1-231-2A17

品名规格 (PronameSpec):DC-044 中心柱2.0

送样日期 (Delivery Date):2022/08/16

承认日期 (Acknowledge Date): 2022/08/16

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 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

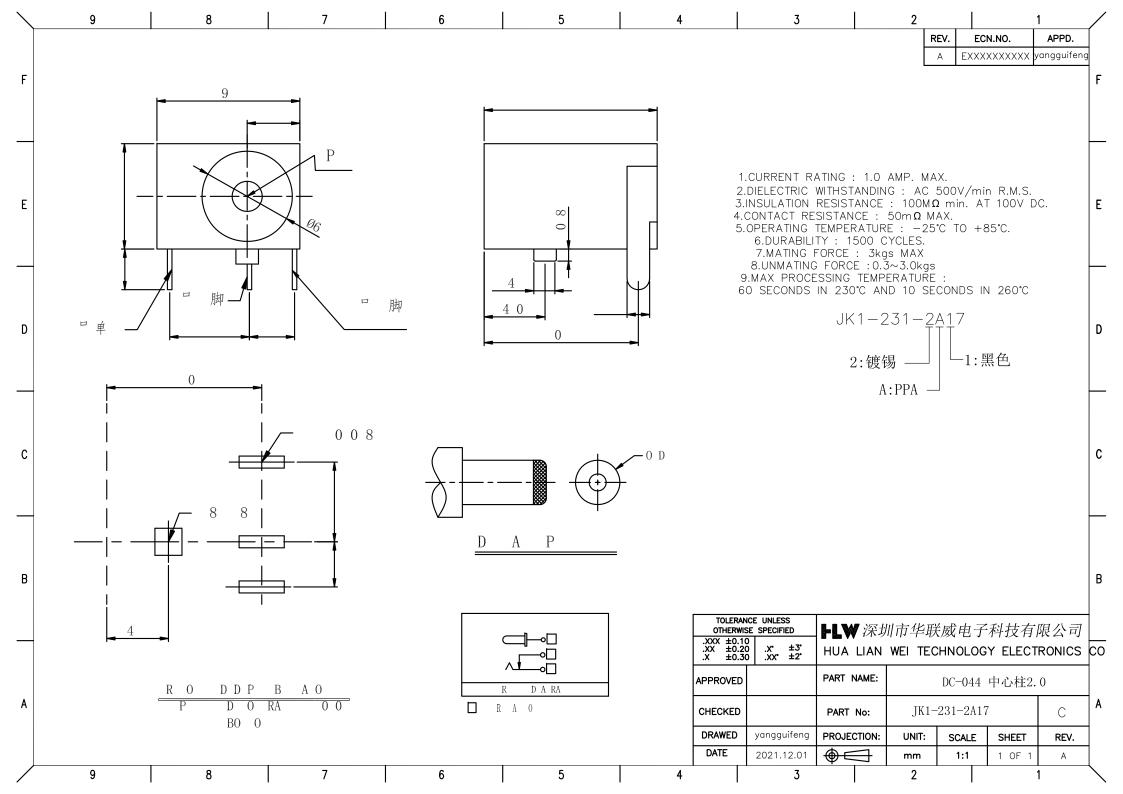
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# HLWCONN® 深圳市华联威电子科技有限公司

## 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 REQUIREMENT								
4	Rating Voltage	12VAC max	on any signal pin with respect to the shield						
5	Rating Current	1.0 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.						
	<del>1</del>	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						

			T 2 1 2 2 2 2 2 2 3 1 2 2 2 2 3 3 3 3 3 3					
12	Durability	Visual Inspection-No physical damage LLCR-50 m $\Omega$ max per contact initial,100 m $\Omega$ after 1500 insertions.	Insertion and extraction with plug up to 1500 cycles at a maximum rate of 200 cycles per hour.  EIA 364-09					
13	Vibration	No discontinuity at 1 $\mu$ s or longer(each contact) when continuity is tested per ANSI/FIA-364-46	ANSI/EIA-364-28,Condition III,Method 5A,15 minute/axis					
14	Mechanical Shock	No discontinuity at 1 $\mu$ 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: 260+5 °C. 2)Dipping time:5+0.5s EIA 364-52					
•		Environmental Requirement	S					
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					
17	Thermal Shock	No physical damage to the samples and LLCR-50 m $\Omega$ max per contact	Mated connectors exposed to 10 cycles between - 55°C to 85°C, 30 minutes duration at both temperature extremes					
18	Steady State Humidity	No physical damage to the samples and can pass the Dielectric Withstanding Voltage & Insulation Resistance	Expose mated connectors to a temperature of 40±2°C with relative humidity of 90-95% for 168 hours Min(seven complete cycles). Remove surface moisture and air dry for 24					
19	Temperature Life (Heat Aging)	[100] M Ohm Min. (insulation reisistance)	ANSI/EIA-364-17 Condition 4 105°C for 250 hours, Method A, mated					
20	Salt Spray	Visual Inspection-No physical damage LLCR-50 m $\Omega$ max per contact	Mated connector expose to 5% salt concentration for 12 hours at temperature 35+2°C. After the test specimens shall be washed with running water and dried					
21	Colour	Colour Atla	284C(Blue) 577C(Green) 701C(Red)					
22	Plating	Contact: <u>Cu:40u", Sn:40u", Ni:40u"</u> Shell: <u>Cu:40u", Ni:40u"</u> Ground: <u>Cu:40u", Ni:40u", Sn:40u"</u>						
Product Qualification and Requalification test								
	Test Group							

Test or Examination	A	В	С	D	Е	F	G	Н	I	J
		Test Sequence (a)								
Examination of Product	1, 7	1, 9	1,6	1, 5	1, 5	1, 5	1, 5	1, 3	1, 3	1, 3
Contact Resistance		2, 8	2, 5	2, 4	2, 4	2, 4	2, 4			
Dielectric withstanding	3, 6									
Insulation Resistance	2, 5									
Temperature Rising								2		
Mating Force		3, 7								
Unmating Force		4, 6								
Durability		5								
Vibration			3							
Mechanical Shock			4							
Solderability										2
Resistance to Soldering									2	
Thermal Shock				3						
Humidity Temperature	4				3					
Temperature Life						3				
Salt Spray							3			
備注	無客戶	 指定增加	]測試]	<u></u> 頁目外	依照	了	佳姓	 建行產品	可靠性語	——— 平估。

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 <b>品名稱</b> Part Name	DC-044 中心柱2.0	測試日期 Date of Testing	2022.08.13 2022.08.15		報告編號 port <b>N</b>	虎 NO.	MD	202208	315–0	01
	產品型號 Part Name	JK1-231-2A17	樣品數量 Quantity	5PCS		測試環境 ing Envi	竟 ronment		18 <i>~</i> 21 : 49~		
一.電	性測試 ELECTRIC	CAL TEST									
						測試記録	綠Testin	g Resul	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	30 mΩ Max	17.45 mΩ	18.22 m Ω	19.13 mΩ	17.92 mΩ	18.68 mΩ	Р	
2	Insulation resistance	Test voltage:500VDC Operation stated:1min	ULTRA HIGH RESISTANCE METER	100 M Ω Min	Pass	Pass	Pass	Pass	Pass	Р	
3	Dielectric withstand voltage	Test voltage:1000VAC Cut- off current:0.5mA Operation stated:1 min	BREAKDOWN TESTER	No discharge or flashover occur	Pass	Pass	Pass	Pass	Pass	Р	
二.機	二.機械特性測試 MECHANICAL TEST										
					測試記錄Testing		g Resul	判定Judg			
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	Durability test	Rate:200cycles/hour Total: 5000cycles	LIFE TESTER FOR CONNECTOR	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
2	Mating Force	29.4 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	1.2kg min	Pass	Pass	Pass	Pass	Pass	Р	
三.環	境特性測試 ENVI	RONMENTAL TEST									
序號	測試項目	測試條件	測試設備	規格		測試記録	綠Testin	g Resul	t	判定	Judge
NO.	Testing Item	Testing Conditions	Testing Equipment	SPEC	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	Ъ	
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 Result 半				判定、	Judge	
NO.	Tooling Itom	resting Conditions		0, 20	1	2	3	4	5	Pass	Fail
1	Salt spray test	Temperature: 35±2°C Concentration:5±1 %Duration:12H	SALT SPRAY TESTER	No Oxidation	Pass	Pass	Pass	Pass	Pass	Р	
2	Resistance to soldering heat test	Temperature: 260±5°C Duration:10±1sec	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
3	Solder ability test	Temperature: 260±5°C Duration:5±0.5 sec	CONTROLLED CONSTANT-TEMP SOLDER POT	Soldering area ≥95□	Pass	Pass	Pass	Pass	Pass	Р	
	判 定 Result ■合格 (ACCEPT) □ 不合格 (REJECT)										

核准(Approver): 欠必峰 測試(Tester): 但芬

# 深圳市华联威电子科技有限公司

# 檢驗報告

■首	牛檢驗 口人庫	■檢驗 □	出貨檢	験   □	客退檢	験 口	退料檢	驗 🗆	其他		2022도	丰08月16日	1 版次:A1
料號	JK1-231-2	2A17	制令	單號		/	送檢	單位	工程部		首件製作者		裝配
品名	DC-044 中心	心柱2.0	客戶代號		批	量	/		送檢時間		1		
		÷	. ,				數	量		PCS		忍時間	/ NDI 0.65
	抽樣標準			■單:		□雙次		1	詳数 CS)	AQL		MAJ:0.40	MIN:0.65
	MIL-STD-105I			正常	□ 力口 <i>,</i>		減量			ACC/REJ		/	/
不	良 数:	CRI (	/ 		IAJ (		) M	IIN (		)	不良	學率(%)	/
NO.	檢驗項目	檢測			驗記	錄	ı		判定	CRI	MAJ	MIN	備注
	單位:MM/G	儀器	1	2	3	4	5	AC	RE				
	9.5±0.30	D	9.53	9.54	9.54	9.54	9.53	√					
	3.5±0.30	D	3.52	3.55	3.52	3.54	3.56	√					
	2.7±0.30	D	2.73	2.72	2.73	2.71	2.72	√					
	5.3±0.30	D	5.32	5.33	5.31	5.32	5.32	<b>√</b>					
	11.5±0.30	D	11.53	11.50	11.53	11.52	11.53	<b>√</b>					
	1.4±0.30	D	1.42	1.43	1.40	1.43	1.42	<b>√</b>					
	0.8±0.30	D	0.82	0.83	0.82	0.84	0.83	<b>√</b>					
	1.4±0.30	D	1.42	1.40	1.43	1.42	1.43	<b>√</b>					
	4.05±0.20	D	4.06	4.05	4.05	4.06	4.05	<b>√</b>					
	1.5±0.30	D	1.52	1.53	1.53	1.52	1.52	√					
	10.25±0.20	D	10.26	10.25	10.24	10.25	10.26	√					
檢驗	依據: ■<<工科	呈圖紙>>	□<<	檢驗規	範>>	□<<夷	承認書>	·>	樣品	口其它			
檢測	義器:A游標卡尺	B千分尺	C厚薄	儀 D投	影鏡 E	放大鏡	F顯微錐	滰 G錫	爐 H	插拔力器	I間位尺	」 J其它	
品保	判定:												
	核 准 APP		《必锋			核 HK		/		檢驗 INSPI			旦芬

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-044 中心柱2.0 (端子)版次:A.0电镀规格:Ni40u", Sn40u"日期:2022/7/25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	60. 5u"	OK	2022/7/25	10:20:15
2	40u″MIN	58. 3u"	OK	2022/7/25	10:20:17
3	40u″MIN	67. 5u"	OK	2022/7/25	10:20:19
4	40u″MIN	62. 4u"	OK	2022/7/25	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	115. 3u"	OK	2022/7/25	10:25:10
2	40u"MIN	124. 7u"	OK	2022/7/25	10:25:12
3	40u"MIN	118. 9u"	OK	2022/7/25	10:25:14
4	40u"MIN	112. 4u"	OK	2022/7/25	10:25:16

核准:欠必锋 审核:李娟 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-1345			
METHOD	NEUTRL SALT SPRAY CORROSION TEST	REF	MIL OID 1010			
客户		试验起始日期	2022年08月15日 20:00 时起			
谷尸		DATE	2022年08月16日 08:00 时止			
样品名称	DC-044 中心柱2.0	试验数量	5PCS			
P/N JK1-231-2A17		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: 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)

CCIMCII at 2	o kinagniliteation no blac of green collobion	products are acceptable,
採口亭旦	试验后现象	判定
样品序号	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		日期 ate	2021/11/23	
品名	標准				尺寸		狀態		銅卷編號	
Article	Standard No				Dimension		Tenper		Coil No	
C2680	JISH3100:2017				0.18*400		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	\	١	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 Roughness		Camber	
	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	\	١	\		1	

品質部

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



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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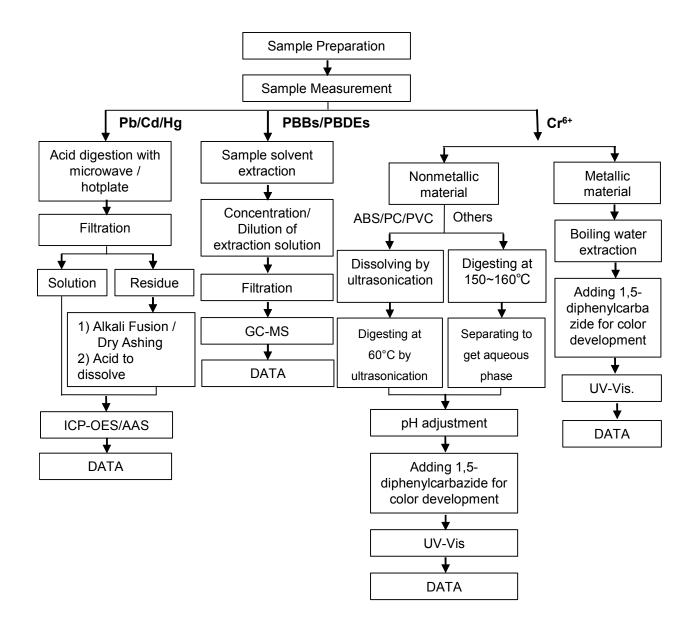
Date: 30 Aug 2022

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#### **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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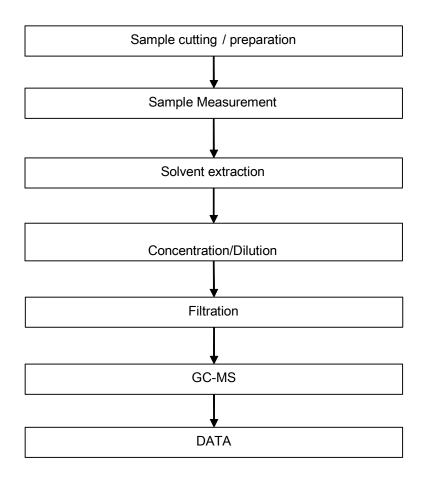
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Date: 30 Aug 2022

#### **ATTACHMENTS**

## Phthalates Testing Flow Chart





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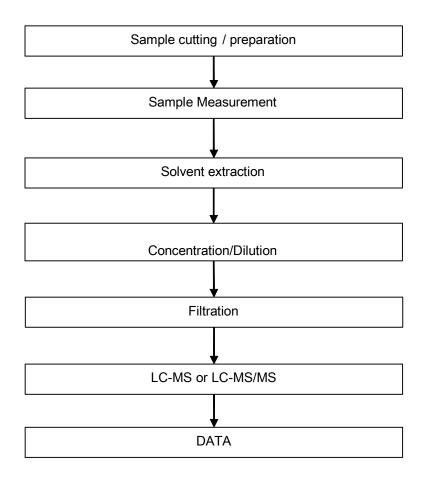
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#### PFOA / PFOS Testing Flow Chart





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