承 認 書

客戶名稱	鈺 緯 科 技	品名規格	
客戶料號	3KH00278000(K1188)	稳德料号	
使用機型		成品單重	
認可日期	2024年10月23日	材料種類	

客戶簽認		
	設計驗證 工程課 2024-12-10 發行 鈺緯科技開發股份有限公司	
核　准	核對	經辦

廠商簽認		
核　准	核 對	經 辦
	陳熙偉	曾貴梅

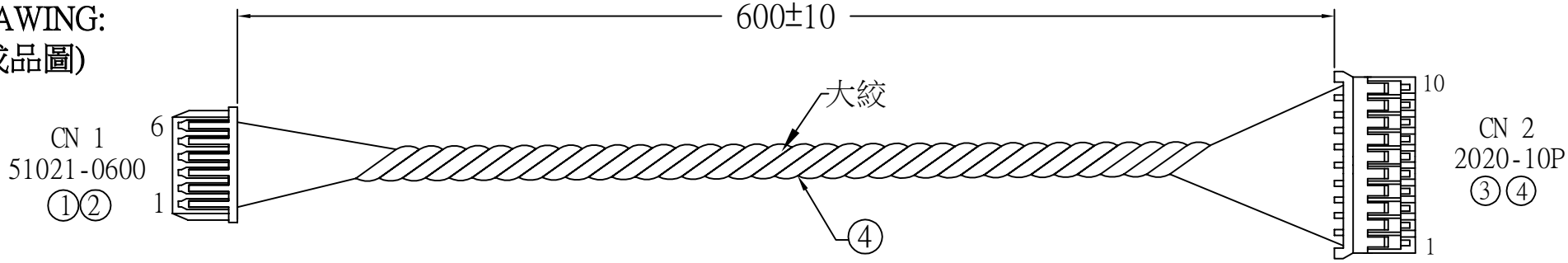
东莞穩德電子有限公司

地址：廣東省東莞市虎門鎮新聯高科技工業區

TEL:(0769)85509740　　FAX:(0769)85504618

http://www.wentek.com.tw　　E-mail:sales@dgwender.com.cn

DRAWING:
(成品圖)



CN 1	COLOR	CN 2
1	黑	1
2	x	
3	棕	6
4	橙	5
5	x	
6	紅	10

備註;
1.裁線長度：1.3 x 638 x 2.5
2.測試條件:
>測試電壓:300 V.DC.
>導通阻抗:2Ω(MAX).
>絕緣阻抗:20MΩ(MIN).

設計驗證
工程課
2024-12-10
發行
鈺緯科技開發股份有限公司

NO. 項次	Description 規格說明	Unit 單位	Q"TY 單用量	Remark 備注
5	UL1571#28 OD:0.8 黑,棕,橙,紅 L=638	PCS	各1	眾達
4	HSG:2020-10P	PCS	1	旗欣
3	TER:2012P	PCS	4	旗欣
2	TER:50079-8000	PCS	4	molex
1	HSG:51021-0600	PCS	1	molex

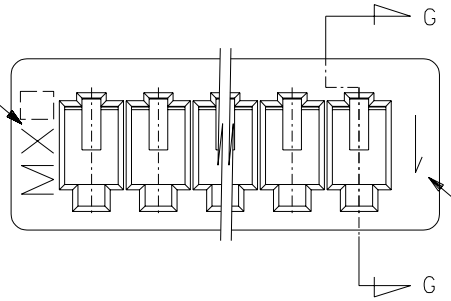
No. 項次	Date 日期	Design Change Record 變更記錄	Confirm 確認

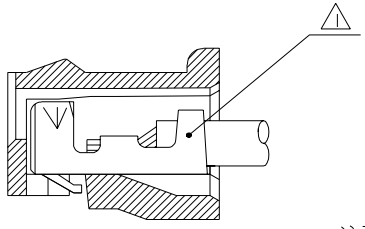
Approval 檢查規范			
Approve 核准	Check 复核	Confirm 確認	Draw By 繪圖

ISSUE NO. 版次	REV. A	Customer 客戶名稱	鈺緯科技	WEN DE ELECTRONICS CO.,LTD
	Unit : mm 單位	Drawing No. 品名		
A	Scale : 比例	PART NO. 料號	3KH00278000 (K1188)	
	2022.09.26	DRAW NO. 繪圖編號		

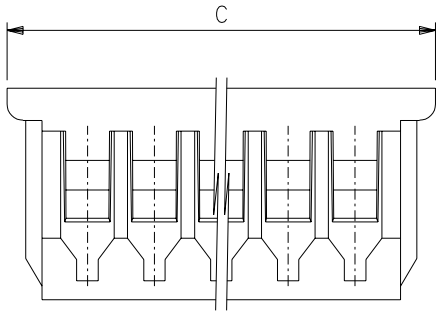
DWG. NO. SD-51021-**0*

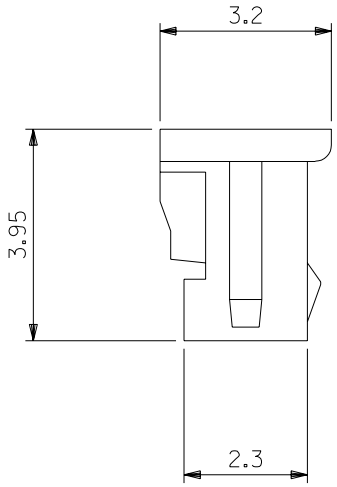
トレードマーク
TRADE MARK

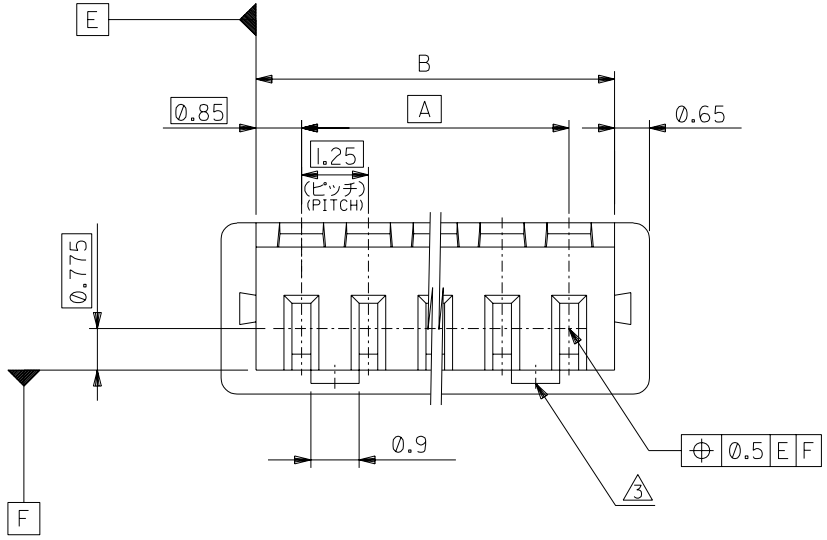




SECT. G-G







注記 NOTES

1. 適合ターミナル：50058, 50079 シリーズ
   APPLICABLE TERMINAL : 50058, 50079 SERIES
2. 嵌合相手： 53047, 53048, 53261, 53398 シリーズ
   MATE WITH : 53047, 53048, 53261, 53398 SERIES
3. ロックは，2，3極は1ヶ，4極以上は2ヶとする。
   LOCKING WINDOW : ONE PLACE FOR 2 & 3 CKT.
   AND TWO PLACES FOR MORE THAN 3 CKT.
4. ウエハーの色 COLOR OF WAFER
   ENG. NO. の下1桁に対応する。
   CORRESPONS TO LAST DIGIT OF ENG.NO.
   黒 BLACK ; 51021-**01

C	B	A	ENG.NO. 4	極数 CKTS.
20.5	19.2	17.5	51021-150*	15
19.25	17.95	16.25	-140*	14
18	16.7	15	-130*	13
16.75	15.45	13.75	-120*	12
15.5	14.2	12.5	-110*	11
14.25	12.95	11.25	-100*	10
13	11.7	10	-090*	9
11.75	10.45	8.75	-080*	8
10.5	9.2	7.5	-070*	7
9.25	7.95	6.25	-060*	6
8	6.7	5	-050*	5
6.75	5.45	3.75	-040*	4
5.5	4.2	2.5	-030*	3
4.25	2.95	1.25	51021-020*	2

角度 ANGLE	±3°
30 以上 OVER	±0.3
10 以上 30 未満 OVER UNDER	±0.25
10 未満 UNDER	±0.2
一般公差 GENERAL TOLERANCES	

記号 LTR	変更内容 REVISION RECORD	DR. CHK.	日付 DATE
0	新規作成 RELEASED (J50396)	T.A H.H	'95/5/31

材料 MATERIAL: PBTP UL94V-0
仕上げ FINISH:
適用電線範囲 WIRE RANGE:
被覆外径 INS. RANGE:

DRAWN BY '95/5/31 T.ASAKAWA
CHK'D BY '95/5/31 Y.M H.HIRAMOTO
APP'D BY '95/5/31 M.FUKUSHIMA
尺度 SCALE 10 : 1

MOLEX-JAPAN CO.,LTD.
日本モレックス株式会社

REVISE ONLY ON CAD SYSTEM

TITLE 名称
1.25 WIRE TO BOARD CONN.
RECEPTACLE HOUSING
(DYED COLOR)

DWG. NO. SD-51021-**0* REV 0

:MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

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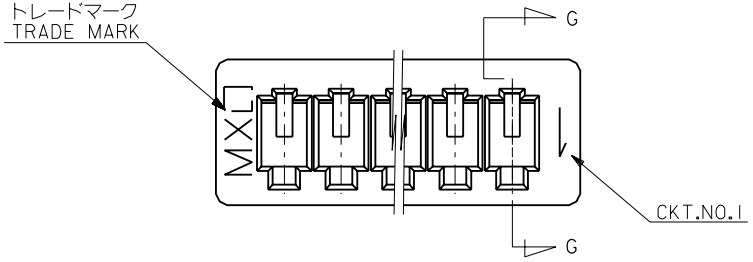
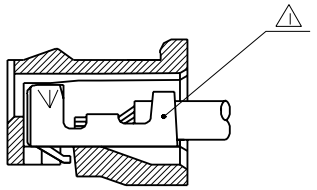
EN-0IC(032)MXJ-32

51021S12

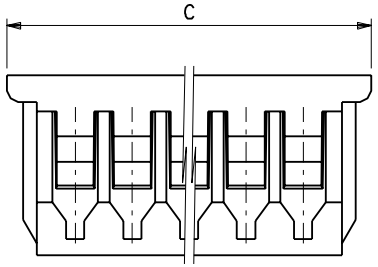
DWG. NO. SD-51021-**00

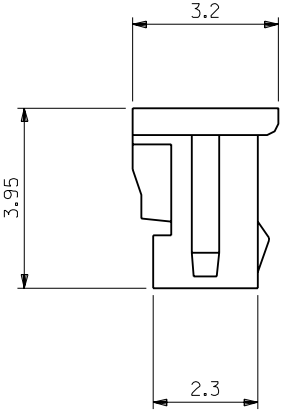
:MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

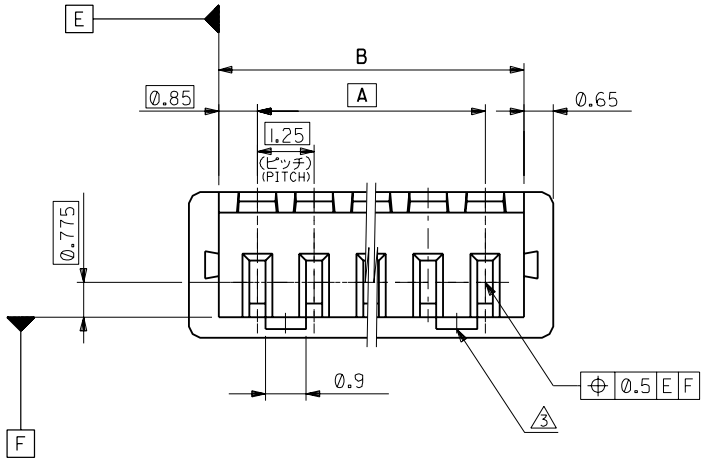




SECT. G-G







注記 NOTES

1. 適合ターミナル：50058, 50079 シリーズ
   APPLICABLE TERMINAL : 50058, 50079 SERIES
2. 嵌合相手： 53047, 53048, 53261, 53398 シリーズ
   MATE WITH : 53047, 53048, 53261, 53398 SERIES
3. ロックは，2，3極は1ヶ，4極以上は2ヶとする。
   LOCKING WINDOW : ONE PLACE FOR 2 & 3 CKT.
   AND TWO PLACES FOR MORE THAN 3 CKT.

C	B	A	ENG.NO.	極数 CKTS.
20.5	19.2	17.5	51021-1500	15
19.25	17.95	16.25	-1400	14
18	16.7	15	-1300	13
16.75	15.45	13.75	-1200	12
15.5	14.2	12.5	-1100	11
14.25	12.95	11.25	-1000	10
13	11.7	10	-0900	9
11.75	10.45	8.75	-0800	8
10.5	9.2	7.5	-0700	7
9.25	7.95	6.25	-0600	6
8	6.7	5	-0500	5
6.75	5.45	3.75	-0400	4
5.5	4.2	2.5	-0300	3
4.25	2.95	1.25	51021-0200	2

角度 ANGLE	±3°
30 以上 OVER	±0.3
10 以上 30 未満 OVER UNDER	±0.25
10 未満 UNDER	±0.2
一般公差 GENERAL TOLERANCES	

記号 LTR	変更内容 REVISION RECORD	DR. CHK.	日付 DATE
D	変更及び再作図 REVISED&REDRAWN (J30522)	K.T H.H	'93/6/1

材料 MATERIAL	PBTP UL94V-0
仕上げ FINISH	
適用電線範囲 WIRE RANGE	
被覆外径 INS. RANGE	

DRAWN BY '93/6/1 K.TOJO | CHK'D BY '93/6/1 H.HIRAMOTO
APP'D BY '93/6/1 M.FUKUSHIMA | 尺度 SCALE 10 : 1

MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社

REVISE ONLY ON CAD SYSTEM

TITLE 名称

1.25 WIRE TO BOARD CONN. RECEPTACLE HOUSING

DWG. NO. SD-51021-**00 | REV D

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EN-01C(032)MXJ-32

5102.1S11

FEATURES AND SPECIFICATIONS

1.25mm (.049") Pitch Wire-to-Board and Wire-to-Wire Crimp Terminal

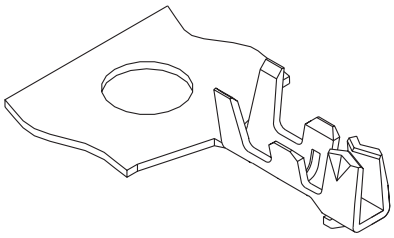
50079/50058 Female

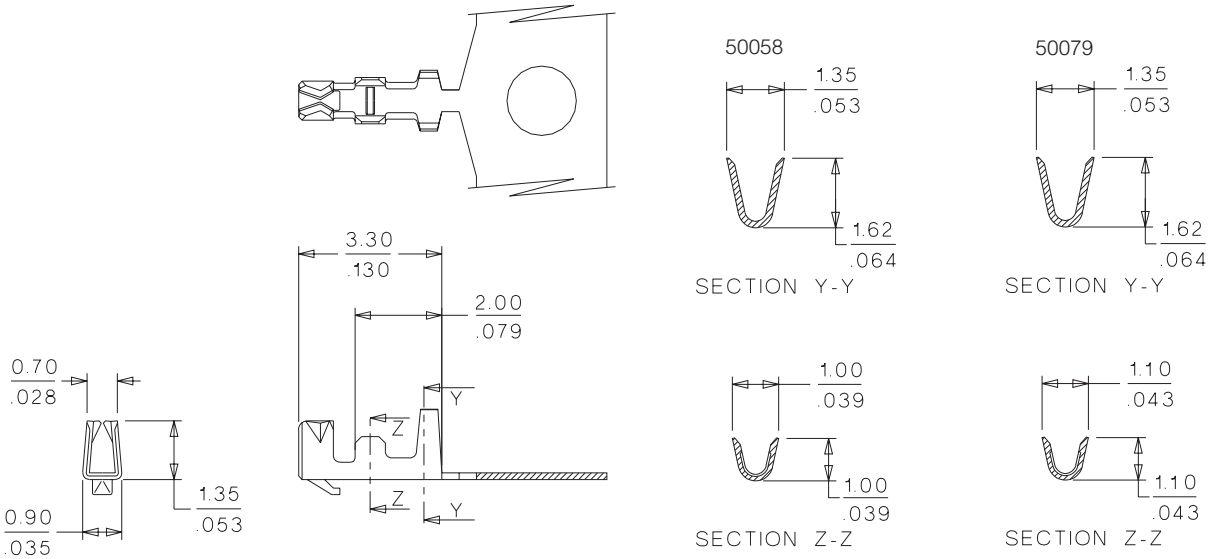
Features and Benefits
- Locking tang for secure housing retention

Reference Information
Packaging: Reel or bag
Use With: 51021
Mates With: 51025 and 50133
Designed In: Millimeters

Electrical
Voltage: 125V
Current: 1.0A
32 AWG—0.8A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 250V AC/1 min.
Insulation Resistance: 100 MΩ min.

Physical
Contact: Phosphor Bronze
Plating: Tin
Wire Range:
26 to 28 AWG—50079
28 to 32 AWG—50058
Insulation Range: 1.00mm dia. max.
Strip Length: 1.40 to 1.90mm



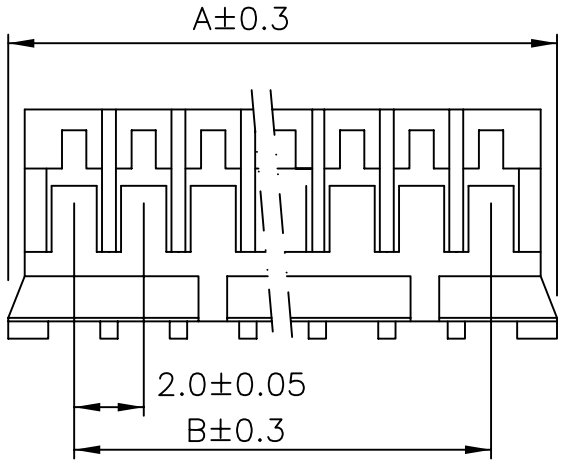


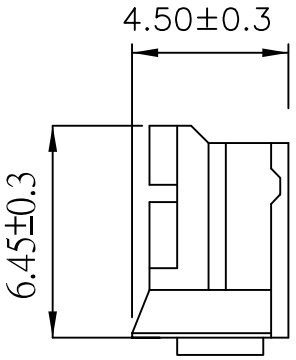
ORDERING INFORMATION

Order No.	Wire Range AWG	Terminal
50079-8000	26 - 28	Reel
50058-8000	28 - 32	
50079-8100	26 - 28	Bag
50058-8100	28 - 32	

EVER-CONN

2020 SERIES





PART NO.	A	B
2020-02	5.8	2.0
2020-03	7.8	4.0
2020-04	9.8	6.0
2020-05	11.8	8.0
2020-06	13.8	10.0
2020-07	15.8	12.0
2020-08	17.8	14.0
2020-09	19.8	16.0
2020-10	21.8	18.0

PART NO.	A	B
2020-11	23.8	20.0
2020-12	25.8	22.0
2020-13	27.8	24.0
2020-14	29.8	26.0
2020-15	31.8	28.0
2020-16	33.8	30.0
2020-17	35.8	32.0
2020-18	37.8	34.0
2020-19	39.8	36.0
2020-20	41.8	38.0

MAT'L:NYLON 66 UL94V-0

CURRENT RATING:2A AC,DC

VOLTAGE RATING:250V AC DC

MATES WITH:2012P SERIES TERMINAL

ACCEPTS WITH:2021 & 2022 SERIES WAFER

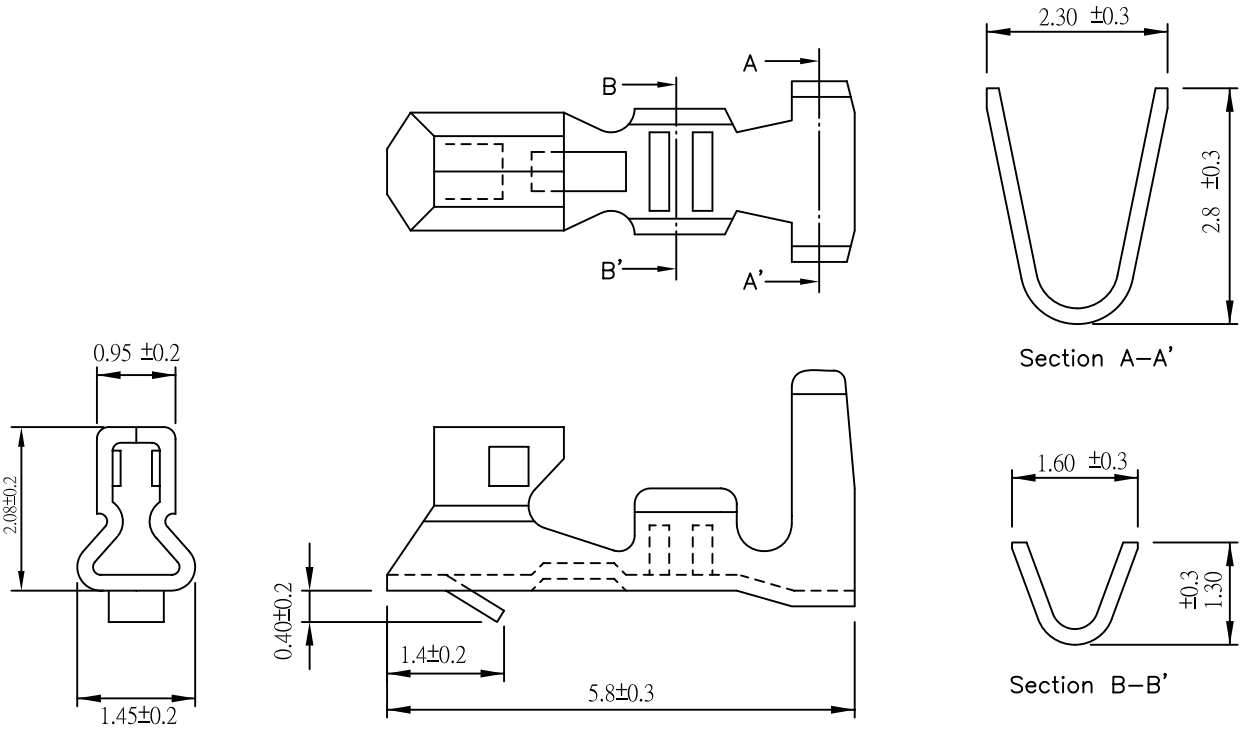
UL FILE:E115256

REMARKS REV 0

TOLERANCES LNLESS OTHERWISE SPECIFIED										
		±0.4	±0.5	MARK	REVISED	CLN	REVISER	SCALE	/	mm
	PARTITION	20-40	40 UP	ISSUER	LAY	CHECK		ANGLE		3TH ANGLE
	TYPE	±0.2	±0.3	旗欣股份有限公司 EVER CONNECTOR INDUSTRIAL CO.,LID				DATE 10.04.17		DWG NO. 2020
	PARTITION	1-10	10-20							

EVER-CONN
E.C.I.

2012P SERIES



2012P SERIES
MAT'L:PHOSPHOR BRONZE
TREATMENT:TIN PLATED
THICKNESS:0.2mm
MATES:2020 SERIES HOUSING
MATES WITH 2021 & 2022 SERIES WAFER
ACCEPTS:0.5mm (.02") SQUIRE OR ROUND PIN
INS. O.D.:1.3mm-0.8mm
WIRE RANGE:AWG#24~30
CURRENT RATING:2A AC,DC
VOLTAGE RATING:250V AC,DC
UL FILE NO:E115256

ウニオ REMARKS REV 0												
									TITLE	MATERIAL	FINISH	
TOLERANCES UNLESS OTHERWISE SPECIFIED	TYPE	±0.4	±0.5	MARK	REVISED	Y. M. D.	REVISER		ACALE	/	UNIT	mm
	PARTITION	20-40	40 UP	ISSUER	YANG	CHECK			ANGLE		3TH ANGLE	
	TYPE	±0.2	±0.3	旗欣股份有限公司 EVER CONNECTOR INDUSTRIAL CO., LID.					DATE	05.5.31	DWG NO.	2012P
	PARTITION	1-10	10-20									

UL 1571 HOOK-UP WIRE
80℃ 30V PVC 電子線

UL Subject 758

UL FILE NO：E309338

▲說明：

- 導體使用單條或絞線最少至 50AWG 裸銅或鍍錫銅
- PVC 絕緣
- 額定溫度：80℃，額定電壓：30 Volts
- 使用標準厚度,易剝,截斷容易
- 可通過 UL 垂直型耐燃測試

Product Description:

- Tinned,annealed,stranded or Solid copper conductor,MIN,50AWG
- Color-coded PVC insulation
- Rated temperature: 80℃,Rated voltage: 30 Volts
- Uniform thickness of wire to ensure easy stripping and cutting
- Passed UL VW-1 vertical flame test

▲ 應用：

- 電子設備二次回路中內部連接用線。

Applications:

- Internal wiring of class 2circuits electronic epuipment

構造和電氣性能

Structure & electric properties



UL 1571	額 定 Range		導 體 Conducor		絕 緣 體 Insulation		公差值 Tolerance mm	最大導體阻抗 Maximum Conductor Resistance Ω/km	最小絕緣阻抗 Minimum Insulation Resistance MΩ/km	絕緣耐電壓 (VAC/min) Insulation Potential Strength
	溫度 Temp °C	電壓 Voltage V	線號 AWG	構成 No./mm	厚度 Thickness mm	外徑 O.D. mm				
多芯線 Stranded	80°C	30V	28	7/0.127	0.20	0.80	±0.05	248	15	500

UL 1571 HOOK-UP WIRE
80℃ 30V PVC 電子線

UL Subject 758 UL FILE NO：E309338

STYLE			UL 1571		CSA
RATING TEMP / VOLT			80℃/30V		
CONDUCTOR	SIZE		AWG	28	
	NUMBER		NO.	7	
	DIAMETER		MM	0.127	
	MIN.DIAMETER		MM	0.117	
	CROSS SEC AREA OF COND	AVG.	CM	253	
		MIN		248	
	LAY OF BUNCH		INCH	0.50	
	MAX.RESISTANCE		Ω/KM	248	
INSULATION	O.D.(±0.05)		MM	0.80	
	INSULATION THICKNESS	AVG	MIL	8	
		MIN		6	
	JACKET THICKNESS	AVG	MIL		
		MI			
ADHESIVE TEST			KG		
INSULATION RESISTANCE			MΩ/KM	15	
SPARK TEST			KV	2	
ELONGATION			%	100	
TENSIL STRENGTH			PSI	1500	
ELO.(AFTER AGING)			%	OF UNAGED 65	
TEN.ST.(AFTER AGING)			%	OF UNAGED 70	
AGING TEMP TIME				113℃/168HRS	
OIL LMMERSION TEST					
FIAME TEST				VW-1	
HEAT SHOCK TEST				121℃/1HR 1.60MM MANDREL	
DEFORMATION TEST				113℃/1HR 50%	
COLD BEND TEST				-10℃/1HR 0.4MM MANDREL	
INSULATION POTENTIALST				500VAC/MIN	

印 字 內 容：c AWM 1571 VW-1 80°C 30V E309338 （28）AWG KAI TAT CO -LF-

TEST REPORT

Lab No. : **(6223)348-0078**
Date : **December 22, 2023**
Page : **1 of 9**

APPLICANT **申請人**	:	EVER CONNECTOR INDUSTRIAL CO., LTD NO. 1, Ln. 91, Benzhou Rd., Gangshan Dist., Kaohsiung City 820, Taiwan (R.O.C.) 旗欣股份有限公司 820 高雄市岡山區本洲路 91 巷 1 號
CONTACT PERSON **聯絡人**	:	—
DATE OF SUBMISSION **送樣日期**	:	December 14, 2023 2023 年 12 月 14 日
PERFORMANCE PERIOD **測試日期**	:	December 14, 2023 to December 22, 2023 2023 年 12 月 14 日 至 2023 年 12 月 22 日
SAMPLE DESCRIPTION **樣品描述**	:	TERMINAL-PHOSHOR BRONZE

SUMMARY OF TEST RESULTS 測試結果摘要

TEST REQUESTED 測試要求	CONCLUSION 結論	REMARK 備註
Heavy Metals and Flame Retardants Content – European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) 重金屬和阻燃劑含量 – 有關歐盟委員會針對電子產品的指令(電子電氣禁用某些有害物質指令)，2011/65/EU	PASS 通過	—
Phthalates Test – Directive (EU)2015/863 Amendment of European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) (Note: The amendment will be effective on 22 July 2019. For medical devices, monitoring and control instruments, effective date will be 22 July 2021.) 鄰苯二甲酸鹽測試 – 指令2011/65/EU 歐洲議會和理事會關於電子電氣設備中限制使用某些有害物質 (RoHS)的修正案指令(EU)2015/863. (注釋:修正案將於2019年7月22日起生效。對於醫療設備及監測和控制設備生效日期為2021年7月22日)	PASS 通過	—
Perfluorooctanoic acid (PFOA) Content & Perfluorooctane sulphonate (PFOS) Content 全氟辛酸含量和全氟辛烷磺酸含量	DATA 數據	Test result in page 4 測試結果請見第 4 頁

C/N /TC/JK

Bureau Veritas
Consumer Product Service (H.K.) Ltd.
Taiwan Branch
37, Zhongyang S Rd., Sec. 2, Beitou,
Taipei 112, Taiwan, R.O.C.

Tel : 886-2-2895-3666
Fax: 886-2-2895-6999
http://www.cps.bureauveritas.com

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REMARK 備註

If there are questions or concerns on this report, please contact:
若有任何疑問或諮詢，請與我們聯絡:

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BUREAU VERITAS CONSUMER PRODUCTS SERVICES
(H.K.) LIMITED, TAIWAN BRANCH

PREPARED BY : Tiffany Chin

VICO LIN
MANAGER
ANALYTICAL DEPARTMENT

C/N /TC/JK

TEST RESULT 測試結果

Tested item 測試部件	
1.	Silvery metal / 銀色金屬

Heavy Metals and Flame Retardants Content – European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)
重金屬和阻燃劑含量 - 有關歐盟委員會針對電子產品的指令(電子電氣禁用某些有害物質指令)，2011/65/EU

Compounds 化合物	**Unit** 單位	**Tested item** 測試部件	**RoHS' Limits** 限用有害物質指令限值
		1	
Lead [Pb] / 鉛	mg/kg	9.88	1000
Cadmium [Cd] / 鎘	mg/kg	N.D.	100
Mercury [Hg] / 汞	mg/kg	N.D.	1000
Chromium (VI) [Cr(VI)] / 六價鉻	—	Negative	Negative
Polybrominated Biphenyls[PBBs] / 多溴聯苯			
Bromobiphenyls / 一溴聯苯	mg/kg	N.D.	
Dibromobiphenyls / 二溴聯苯	mg/kg	N.D.	
Tribromobiphenyls / 三溴聯苯	mg/kg	N.D.	
Tetrabromobiphenyls / 四溴聯苯	mg/kg	N.D.	
Pentabromobiphenyls / 五溴聯苯	mg/kg	N.D.	
Hexabromobiphenyls / 六溴聯苯	mg/kg	N.D.	
Heptabromobiphenyls / 七溴聯苯	mg/kg	N.D.	
Octabromobiphenyls / 八溴聯苯	mg/kg	N.D.	
Nonabromobiphenyls / 九溴聯苯	mg/kg	N.D.	
Decabromobiphenyl / 十溴聯苯	mg/kg	N.D.	
Sum of PBBs / 多溴聯苯總和	mg/kg	N.D.	1000
Polybrominated Diphenyl Ethers[PBDEs] / 多溴聯苯醚			
Bromodiphenyl ethers / 一溴聯苯醚	mg/kg	N.D.	
Dibromodiphenyl ethers / 二溴聯苯醚	mg/kg	N.D.	
Tribromodiphenyl ethers / 三溴聯苯醚	mg/kg	N.D.	
Tetrabromodiphenyl ethers / 四溴聯苯醚	mg/kg	N.D.	
Pentabromodiphenyl ethers / 五溴聯苯醚	mg/kg	N.D.	
Hexabromodiphenyl ethers / 六溴聯苯醚	mg/kg	N.D.	
Heptabromodiphenyl ethers / 七溴聯苯醚	mg/kg	N.D.	
Octabromodiphenyl ethers / 八溴聯苯醚	mg/kg	N.D.	
Nonabromodiphenyl ethers / 九溴聯苯醚	mg/kg	N.D.	
Decabromodiphenyl ether / 十溴聯苯醚	mg/kg	N.D.	
Sum of PBDEs / 多溴聯苯醚總和	mg/kg	N.D.	1000
Conclusion 結論	—	PASS 通過	—

C/N /TC/JK

TEST RESULT 測試結果

Phthalates Test – Directive (EU)2015/863 Amendment of European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)
鄰苯二甲酸鹽測試- 指令 2011/65/EU 歐洲議會和理事會關於電子電氣設備中限制使用某些有害物質 (RoHS)的修正案指令(EU)2015/863.

Test Item 測試項目	CAS No. CAS 编號	Unit 單位	Tested item 測試部件	Maximum Allowable Limit 最大允许限值
			1	
Dibutyl phthalate (DBP) 鄰苯二甲酸二丁酯	84-74-2	%	N.D.	0.1
Butyl benzyl phthalate (BBP) 鄰苯二甲酸丁苄酯	85-68-7	%	N.D.	0.1
Bis(2-ethylhexyl) phthalate (DEHP) 鄰苯二甲酸二異辛酯	117-81-7	%	N.D.	0.1
Diisobutyl phthalate (DIBP) 鄰苯二甲酸二異丁酯	84-69-5	%	N.D.	0.1
Sum of Phthalates 鄰苯二甲酸鹽總和	—	%	N.D.	—
Conclusion 結論	—	—	PASS 通過	—

Perfluorooctanoic acid (PFOA) and Perfluorooctane sulphonate (PFOS) Content
全氟辛酸和全氟辛烷磺酸含量

Compounds 化合物	Unit 單位	Tested item 測試部件
		1
Perfluorooctanoic acid (PFOA) 全氟辛酸	mg/kg	N.D.
Perfluorooctane sulphonate (PFOS) 全氟辛烷磺酸	mg/kg	N.D.

Note 註解:
N.D. = Not Detected (低於報告限值) — = Empty (空白)
Negative = (陰性) Positive = (陽性)
% = percent (百分率) 10 000 mg/kg = 1 %
mg/kg = milligram per kilogram = ppm (毫克/公斤, 百萬分之一)

C/N /TC/JK

Reporting Limit / 報告限值:
Pb, Cd, Hg: 2 mg/kg
Cr(VI) (金屬，Metal): 0.1 µg/cm^2
Metal 金屬
Cr(VI): 0.1 µg/cm^2
#The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13µg/cm^2. The coating is considered to contain Cr(VI).
當六價鉻結果大於 0.13µg/cm^2，表示樣品表層含有六價鉻。
#The sample is negative for Cr(VI) if the Cr(VI) concentration is less than 0.10µg/cm^2. The coating is considered a non-Cr(VI) based coating.
當六價鉻結果小於 0.10µg/cm^2，表示樣品表層不含六價鉻。
#The result between 0.10µg/cm^2 and 0.13µg/cm^2 is considered to be inconclusive – unavoidable coating variations may influence the determination.
當六價鉻結果介於 0.10µg/cm^{2}和 0.13µg/cm^{2}之間，表示樣品表層不確定含有六價鉻 –不可避免塗料的變化性可能影響結果判定。
PBBs & PBDEs: Each 5 mg/kg
DBP, BBP, DEHP, DIBP: Each 0.005% ; Sum: 0.02%
Perfluorooctanoic acid (PFOA) and Perfluorooctane sulphonate (PFOS): 0.01 mg/kg

Test Parameter 測試項目	Test Method 測試方法
Lead [Pb] / 鉛	With reference to IEC 62321-5: 2013. 參照 IEC 62321-5: 2013.
Cadmium [Cd] / 鎘	
Mercury [Hg] / 汞	With reference to IEC 62321-4: 2013+AMD 1:2017 CSV. 參照 IEC 62321-4: 2013+AMD 1:2017 合併版本.
Chromium (VI) [Cr(VI)] / 六價鉻	Metal 金屬: With reference to IEC 62321-7-1:2015.[a] 參照 IEC 62321-7-1:2015.[a]
Polybrominated Biphenyls[PBBs] and Polybrominated Diphenyl Ethers [PBDEs] / 多溴聯苯和多溴聯苯醚:	With reference to IEC 62321-6: 2015. 參照 IEC 62321-6: 2015.
Dibutyl phthalate (DBP), Butyl benzyl phthalate (BBP), Bis(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP) / 鄰苯二甲酸二丁酯, 鄰苯二甲酸丁苄酯, 鄰苯二甲酸二異辛酯, 鄰苯二甲酸二異丁酯	With reference to IEC 62321-8: 2017. 參照 IEC 62321-8: 2017.

Test Parameter 測試項目	Test Method 測試方法
Perfluorooctanoic acid (PFOA) and Perfluorooctane sulphonate (PFOS) Content / 全氟辛酸和全氟辛烷磺酸含量	With reference to DIN CEN/TS 15968:2010. 參照 DIN CEN/TS 15968:2010.
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples. 該方法的原理是在由 IEC TC111 WG3 組織的兩次研究中得到充分評估並獲得了認可。這些研究著重於對金屬樣品上的防腐塗層中六價鉻的存在檢測(定性測試)

Remark 備註:

1. The result only relates to the tested item. The report shall not be reproduced except full without the written approval of the testing laboratory. Parameters which are not covered by the lab's testing scope are subcontracted to laboratories with government approval. The accreditation relates to competences given in the accreditation certificate.
   測試結果僅代表經測試部件。本報告未經測試實驗室認可不得複製。未在本實驗室測試範疇之測試均委外至經官方核可之實驗室。委外實驗室之能力經認證許可。
2. Samples test were conducted as per applicant's request.
   樣品測試進行為依照申請人的要求。

- End 結束 -

C/N /TC/JK

Photo of the Submitted Sample
委送樣品照片

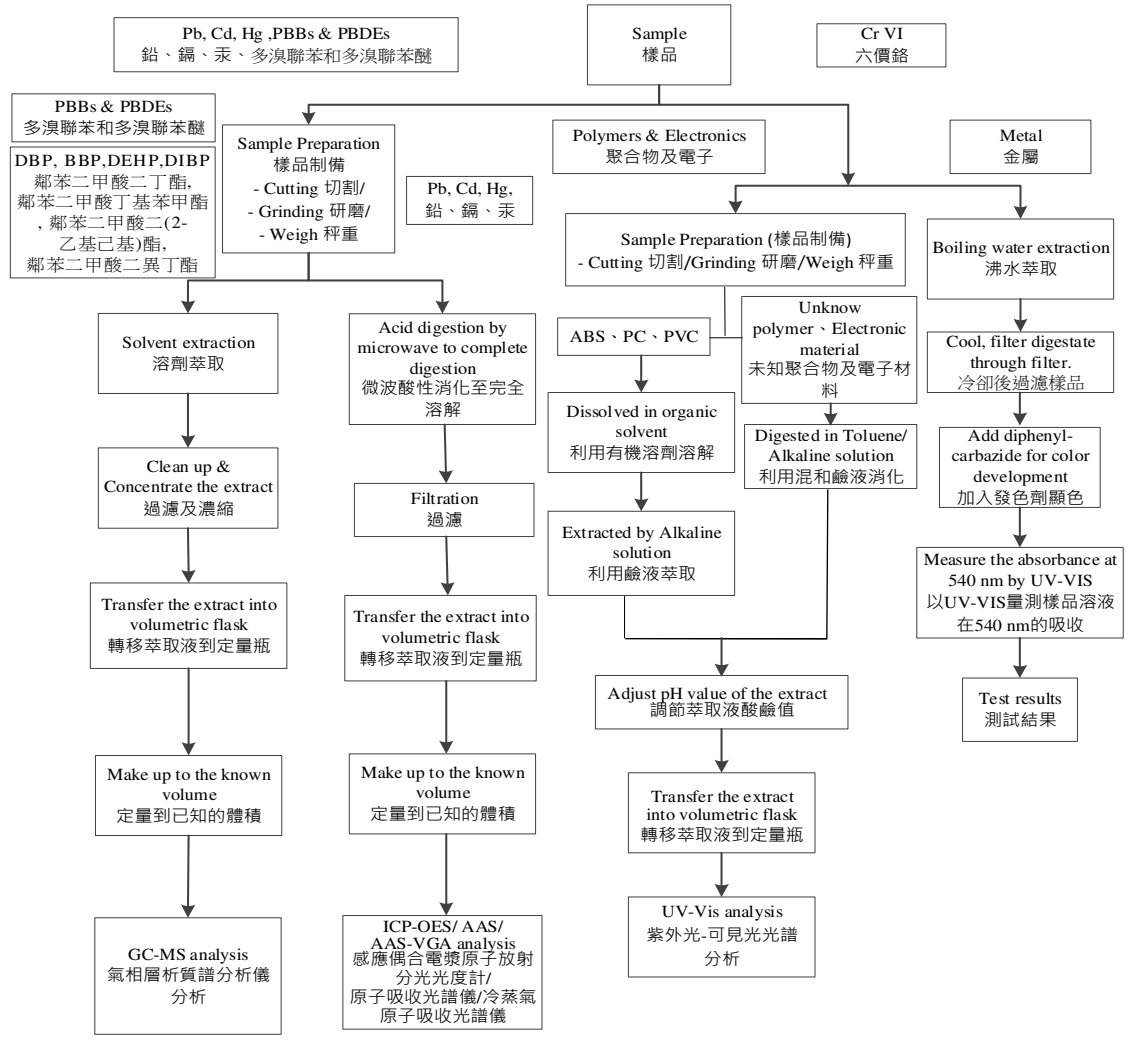


Sample

C/N /TC/JK

APPENDIX(附錄)

Test Flowchart of Heavy Metals, Flame Retardants and Phthalates Content [European Council Directive 2011/65/EU]:
重金屬, 阻燃劑及鄰苯二甲酸鹽含量的測試流程圖 [歐盟委員會指令 2011/65/EU]:
These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr^{6+} test method excluded)
根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)



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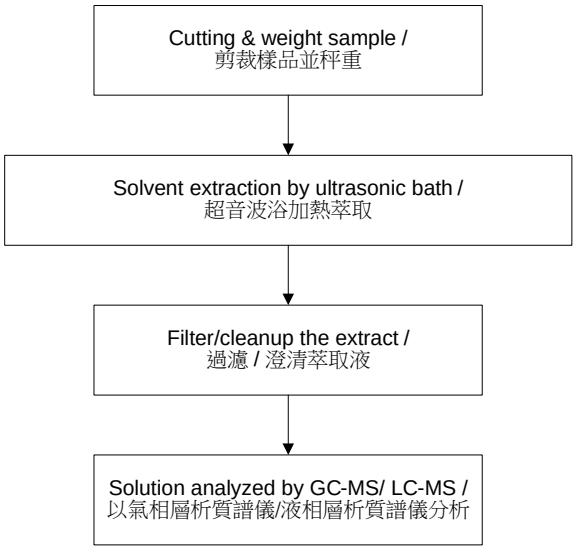
APPENDIX(附錄)

Determinations of Perfluorooctanoic acid (PFOA), Perfluorooctane sulphonate (PFOS) Content:
全氟辛酸與全氟辛烷磺酸含量的測試流程圖:



C/N /TC/JK

TEST REPORT

Lab No. : **(6223)348-0081**
Date : **December 22, 2023**
Page : **1 of 11**

APPLICANT **申請人**	:	EVER CONNECTOR INDUSTRIAL CO., LTD NO. 1, Ln. 91, Benzhou Rd., Gangshan Dist., Kaohsiung City 820, Taiwan (R.O.C.) 旗欣股份有限公司 820 高雄市岡山區本洲路 91 巷 1 號
CONTACT PERSON **聯絡人**	:	—
DATE OF SUBMISSION **送樣日期**	:	December 14, 2023 2023 年 12 月 14 日
PERFORMANCE PERIOD **測試日期**	:	December 14, 2023 to December 22, 2023 2023 年 12 月 14 日 至 2023 年 12 月 22 日
SAMPLE DESCRIPTION **樣品描述**	:	NYLON UL94-V0

SUMMARY OF TEST RESULTS 測試結果摘要

TEST REQUESTED 測試要求	CONCLUSION 結論	REMARK 備註
Heavy Metals and Flame Retardants Content – European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) 重金屬和阻燃劑含量 – 有關歐盟委員會針對電子產品的指令(電子電氣禁用某些有害物質指令)，2011/65/EU	PASS 通過	—
Phthalates Test – Directive (EU)2015/863 Amendment of European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) (Note: The amendment will be effective on 22 July 2019. For medical devices, monitoring and control instruments, effective date will be 22 July 2021.) 鄰苯二甲酸鹽測試 – 指令2011/65/EU 歐洲議會和理事會關於電子電氣設備中限制使用某些有害物質 (RoHS)的修正案指令(EU)2015/863. (注釋:修正案將於2019年7月22日起生效。對於醫療設備及監測和控制設備生效日期為2021年7月22日)	PASS 通過	—
Phthalates Test 鄰苯二甲酸鹽測試	DATA 數據	Test result in page 4 測試結果請見第 4 頁

C/N /TC/JK

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Consumer Product Service (H.K.) Ltd.
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This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

TEST REQUESTED 測試要求	CONCLUSION 結論	REMARK 備註
Halogenated compounds – F, Cl, Br & I 含鹵素物質檢測 – 氟, 氯, 溴 和 碘	DATA 數據	Test result in page 5 測試結果請見第 5 頁
Perfluorooctanoic acid (PFOA) Content & Perfluorooctane sulphonate (PFOS) Content 全氟辛酸含量和全氟辛烷磺酸含量	DATA 數據	Test result in page 5 測試結果請見第 5 頁

REMARK 備註

If there are questions or concerns on this report, please contact:
若有任何疑問或諮詢，請與我們聯絡:

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BUREAU VERITAS CONSUMER PRODUCTS SERVICES
(H.K.) LIMITED, TAIWAN BRANCH

PREPARED BY : Tiffany Chin

VICO LIN
MANAGER
ANALYTICAL DEPARTMENT

C/N /TC/JK

TEST RESULT 測試結果

Tested item 測試部件	
1.	White solid / 白色固體

Heavy Metals and Flame Retardants Content – European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)
重金屬和阻燃劑含量 - 有關歐盟委員會針對電子產品的指令(電子電氣禁用某些有害物質指令)，2011/65/EU

Compounds 化合物	**Unit** 單位	**Tested item** 測試部件	**RoHS' Limits** 限用有害物質指令限值
		1	
Lead [Pb] / 鉛	mg/kg	N.D.	1000
Cadmium [Cd] / 鎘	mg/kg	N.D.	100
Mercury [Hg] / 汞	mg/kg	N.D.	1000
Chromium (VI) [Cr(VI)] / 六價鉻	mg/kg	N.D.	1000
Polybrominated Biphenyls[PBBs] / 多溴聯苯			
Bromobiphenyls / 一溴聯苯	mg/kg	N.D.	
Dibromobiphenyls / 二溴聯苯	mg/kg	N.D.	
Tribromobiphenyls / 三溴聯苯	mg/kg	N.D.	
Tetrabromobiphenyls / 四溴聯苯	mg/kg	N.D.	
Pentabromobiphenyls / 五溴聯苯	mg/kg	N.D.	
Hexabromobiphenyls / 六溴聯苯	mg/kg	N.D.	
Heptabromobiphenyls / 七溴聯苯	mg/kg	N.D.	
Octabromobiphenyls / 八溴聯苯	mg/kg	N.D.	
Nonabromobiphenyls / 九溴聯苯	mg/kg	N.D.	
Decabromobiphenyl / 十溴聯苯	mg/kg	N.D.	
Sum of PBBs / 多溴聯苯總和	mg/kg	N.D.	1000
Polybrominated Diphenyl Ethers[PBDEs] / 多溴聯苯醚			
Bromodiphenyl ethers / 一溴聯苯醚	mg/kg	N.D.	
Dibromodiphenyl ethers / 二溴聯苯醚	mg/kg	N.D.	
Tribromodiphenyl ethers / 三溴聯苯醚	mg/kg	N.D.	
Tetrabromodiphenyl ethers / 四溴聯苯醚	mg/kg	N.D.	
Pentabromodiphenyl ethers / 五溴聯苯醚	mg/kg	N.D.	
Hexabromodiphenyl ethers / 六溴聯苯醚	mg/kg	N.D.	
Heptabromodiphenyl ethers / 七溴聯苯醚	mg/kg	N.D.	
Octabromodiphenyl ethers / 八溴聯苯醚	mg/kg	N.D.	
Nonabromodiphenyl ethers / 九溴聯苯醚	mg/kg	N.D.	
Decabromodiphenyl ether / 十溴聯苯醚	mg/kg	N.D.	
Sum of PBDEs / 多溴聯苯醚總和	mg/kg	N.D.	1000
Conclusion 結論	—	PASS 通過	—

C/N /TC/JK

TEST RESULT 測試結果

Phthalates Test – Directive (EU)2015/863 Amendment of European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)
鄰苯二甲酸鹽測試- 指令 2011/65/EU 歐洲議會和理事會關於電子電氣設備中限制使用某些有害物質 (RoHS)的修正案指令(EU)2015/863.

Test Item 測試項目	CAS No. CAS 编號	Unit 單位	Tested item 測試部件	Maximum Allowable Limit 最大允许限值
			1	
Dibutyl phthalate (DBP) 鄰苯二甲酸二丁酯	84-74-2	%	N.D.	0.1
Butyl benzyl phthalate (BBP) 鄰苯二甲酸丁苄酯	85-68-7	%	N.D.	0.1
Bis(2-ethylhexyl) phthalate (DEHP) 鄰苯二甲酸二異辛酯	117-81-7	%	N.D.	0.1
Diisobutyl phthalate (DIBP) 鄰苯二甲酸二異丁酯	84-69-5	%	N.D.	0.1
Sum of Phthalates 鄰苯二甲酸鹽總和	—	%	N.D.	—
Conclusion 結論	—	—	PASS 通過	—

Phthalates Test
鄰苯二甲酸鹽測試

Test Item 測試項目	CAS No. CAS 编號	Unit 單位	Tested item 測試部件
			1
Di-n-octyl phthalate (DNOP) 鄰苯二甲酸二正辛酯 (DNOP)	117-84-0	%	N.D.
Di-isodecyl phthalate (DIDP) 鄰苯二甲酸二異癸酯 (DIDP)	26761-40-0	%	N.D.
Di-isononyl phthalate (DINP) 鄰苯二甲酸二異壬酯 (DINP)	28553-12-0	%	N.D.
Sum of Phthalates / 鄰苯二甲酸鹽總和	—	%	N.D.

C/N /TC/JK

TEST RESULT 測試結果

Halogen Content - Fluorine, Chlorine, Bromine and Iodine
鹵素含量 – 氟、氯、溴和碘

Compounds 化合物	Unit 單位	Tested item 測試部件
		1
Halogenated Compounds / 鹵素:		
Fluorine [F] / 氟	mg/kg	N.D.
Chlorine [Cl] / 氯	mg/kg	N.D.
Bromine [Br] / 溴	mg/kg	N.D.
Iodine [I] / 碘	mg/kg	N.D.
Sum of Halogenated Compounds / 鹵素總和	mg/kg	N.D.

Perfluorooctanoic acid (PFOA) and Perfluorooctane sulphonate (PFOS) Content
全氟辛酸和全氟辛烷磺酸含量

Compounds 化合物	Unit 單位	Tested item 測試部件
		1
Perfluorooctanoic acid (PFOA) 全氟辛酸	mg/kg	N.D.
Perfluorooctane sulphonate (PFOS) 全氟辛烷磺酸	mg/kg	N.D.

Note 註解:
N.D. = Not Detected (低於報告限值) — = Empty (空白)
Negative = (陰性) Positive = (陽性)
% = percent (百分率) 10 000 mg/kg = 1 %
mg/kg = milligram per kilogram = ppm (毫克/公斤, 百萬分之一)

C/N /TC/JK

Reporting Limit / 報告限值:
Pb, Cd, Hg: 2 mg/kg
Cr(VI): 8 mg/kg
PBBs & PBDEs: Each 5 mg/kg
Phthalates Content: Each 0.005%
F, I , Cl, Br: 50 mg/kg
Perfluorooctanoic acid (PFOA) and Perfluorooctane sulphonate (PFOS): 0.01 mg/kg

Test Parameter 測試項目	Test Method 測試方法
Lead [Pb] / 鉛	With reference to IEC 62321-5: 2013. 參照 IEC 62321-5: 2013.
Cadmium [Cd] / 鎘	
Mercury [Hg] / 汞	With reference to IEC 62321-4: 2013+AMD 1:2017 CSV. 參照 IEC 62321-4: 2013+AMD 1:2017 合併版本.
Chromium (VI) [Cr(VI)] / 六價鉻	Polymers & Electronics 聚合物及電子: With reference to IEC 62321-7-2:2017. 參照 IEC 62321-7-2:2017.
Polybrominated Biphenyls[PBBs] and Polybrominated Diphenyl Ethers [PBDEs] / 多溴聯苯和多溴聯苯醚:	With reference to IEC 62321-6: 2015. 參照 IEC 62321-6: 2015.
Phthalates Test / 鄰苯二甲酸鹽測試	With reference to IEC 62321-8: 2017. 參照 IEC 62321-8: 2017.
Halogenated Compounds: F, Cl, Br, I / 鹵素: 氟, 氯, 溴, 碘	With reference to EN14582:2016(E). 參照 EN14582:2016(E).
Perfluorooctanoic acid (PFOA) and Perfluorooctane sulphonate (PFOS) Content / 全氟辛酸和全氟辛烷磺酸含量	With reference to DIN CEN/TS 15968:2010. 參照 DIN CEN/TS 15968:2010.

Remark 備註:

1. The result only relates to the tested item. The report shall not be reproduced except full without the written approval of the testing laboratory. Parameters which are not covered by the lab's testing scope are subcontracted to laboratories with government approval. The accreditation relates to competences given in the accreditation certificate.
   測試結果僅代表經測試部件。本報告未經測試實驗室認可不得複製。未在本實驗室測試範疇之測試均委外至經官方核可之實驗室。委外實驗室之能力經認證許可。
2. Samples test were conducted as per applicant's request.
   樣品測試進行為依照申請人的要求。

- End 結束 -

C/N /TC/JK

Photo of the Submitted Sample
委送樣品照片

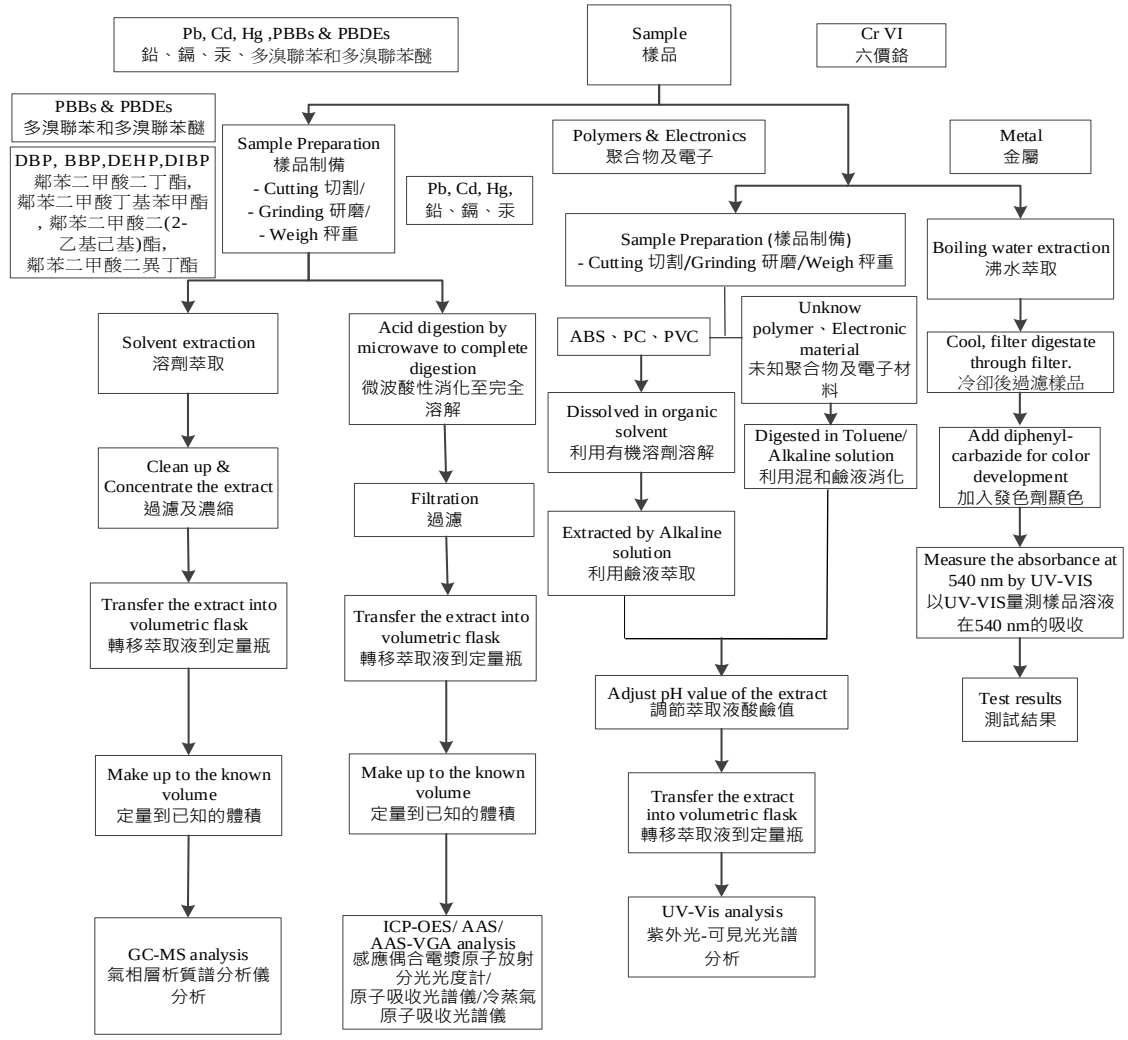


Sample

C/N /TC/JK

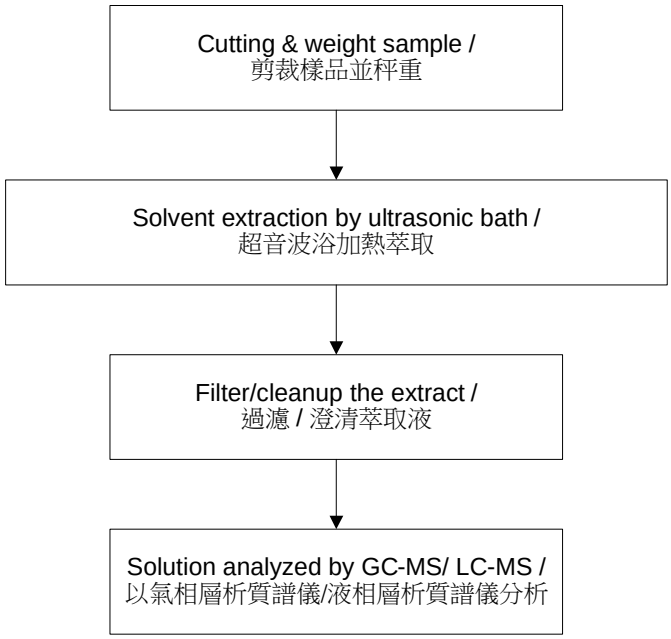
APPENDIX(附錄)

Test Flowchart of Heavy Metals, Flame Retardants and Phthalates Content [European Council Directive 2011/65/EU]:
重金屬, 阻燃劑及鄰苯二甲酸鹽含量的測試流程圖 [歐盟委員會指令 2011/65/EU]:
These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr^{6+} test method excluded)
根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)



APPENDIX(附錄)

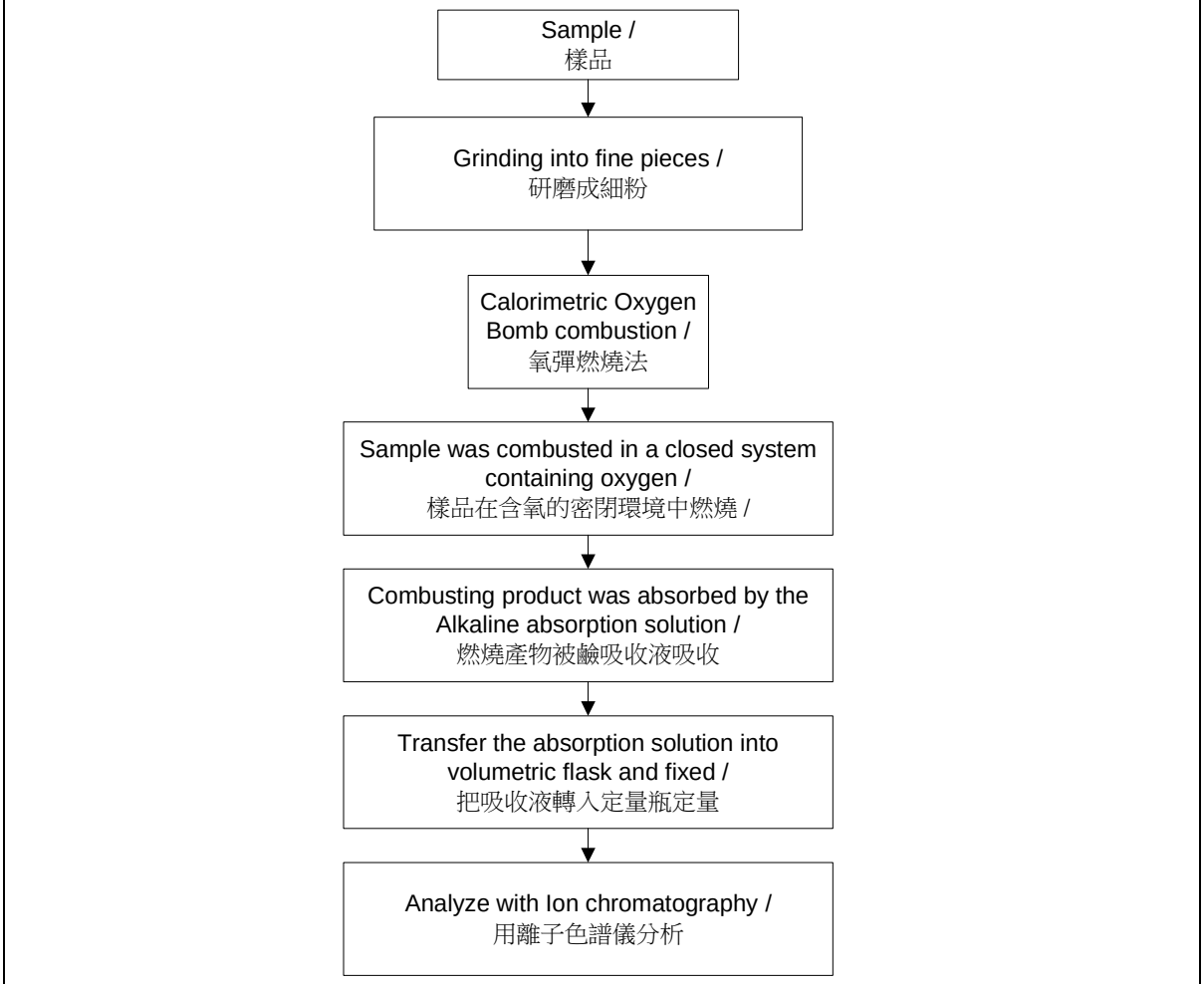
Test Flowchart of of Phthalates test:
鄰苯二甲酸鹽的測試流程圖:



C/N /TC/JK

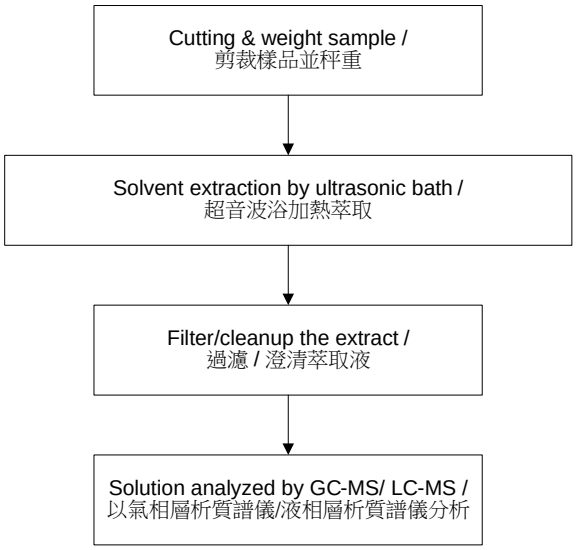
APPENDIX(附錄)

Test Flowchart of Halogenated Compounds-F, Cl, Br, I:
鹵素: 氟, 氯, 溴, 碘的測試流程圖:



APPENDIX(附錄)

Determinations of Perfluorooctanoic acid (PFOA), Perfluorooctane sulphonate (PFOS) Content:
全氟辛酸與全氟辛烷磺酸含量的測試流程圖:



C/N /TC/JK

Test Report

Report No. A2240282836101018

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS
Phthalates*	Refer to EN 14372:2004(E)	GC-MS

CTI 华测检测

Test Report

Report No. A2240282836101018

Test Result(s)

Tested Item(s)	Result	MDL	Limit
	018		
Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg

Tested Item(s)	Result	MDL	Limit
	018		
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	5 mg/kg	
Hexabromobiphenyl	N.D.	5 mg/kg	
Heptabromobiphenyl	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	5 mg/kg	

Tested Item(s)	Result	MDL	Limit
	018		
Polybrominated Diphenyl Ethers (PBDEs)			
Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	5 mg/kg	
Hexabromodiphenyl ether	N.D.	5 mg/kg	
Heptabromodiphenyl ether	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	5 mg/kg	

Test Report

Test Result(s)

Tested Item(s)	Result	MDL	Limit
	018		
Phthalates (DBP, BBP, DEHP, DIBP)			
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

Tested Item(s)	Result	MDL
	018	
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

Tested Item(s)	Result	MDL
	018	
Phthalates*		
Di-2-propylheptyl phthalate (DPHpP) CAS#:53306-54-0	N.D.	30 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	018	Black wire jacket

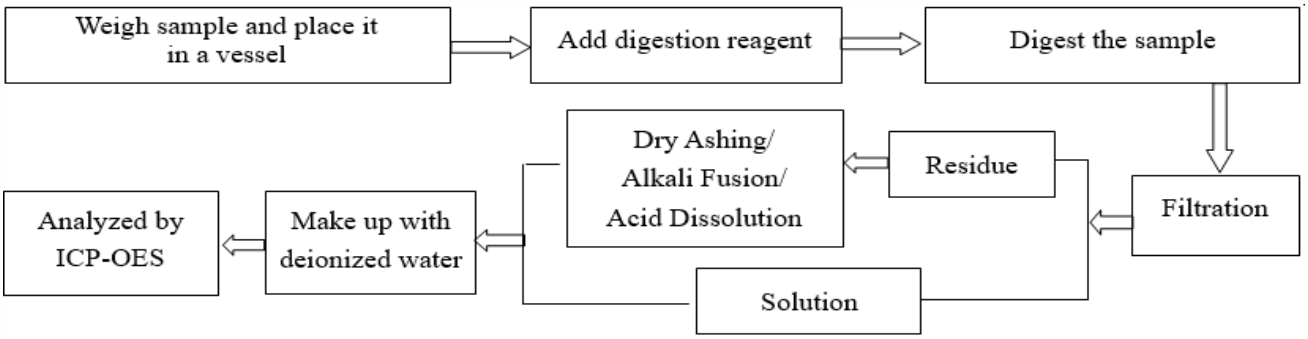
Remark: **-The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-Information Statement: Different Model No. with different buyer, Products are sold to different countries or regions, with different model rules.

-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million
-1000 mg/kg = 0.1%

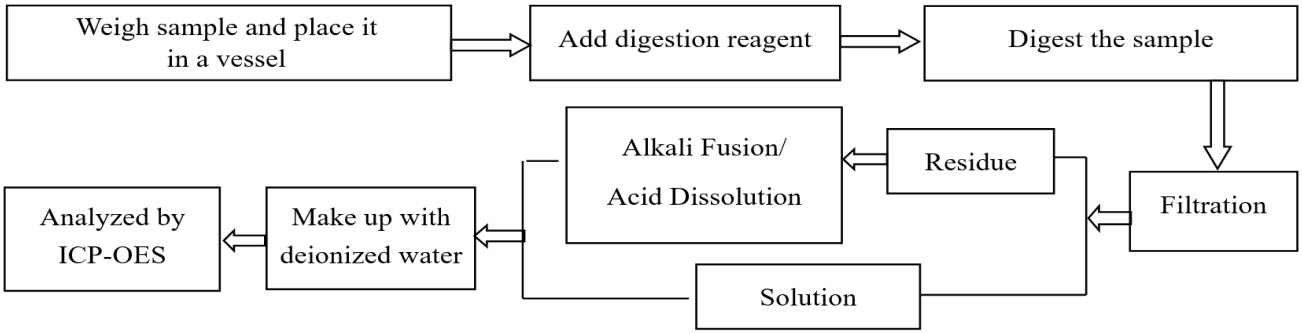
Note: ***indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.**

Test Process

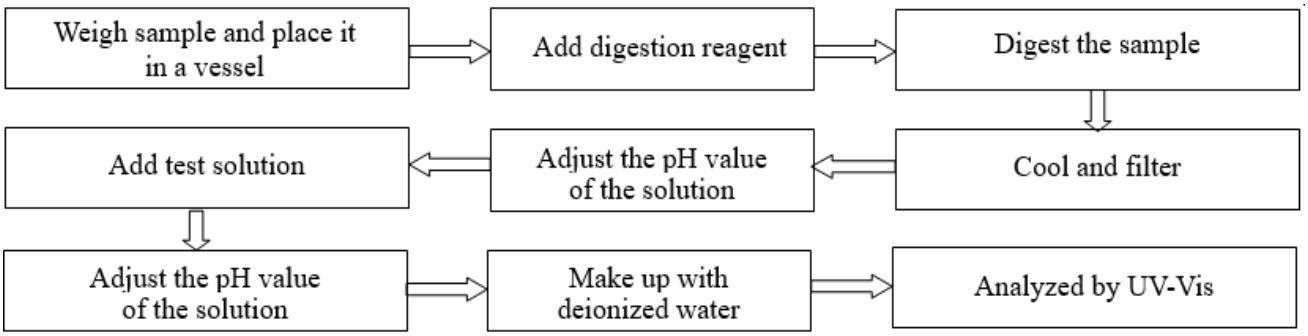
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



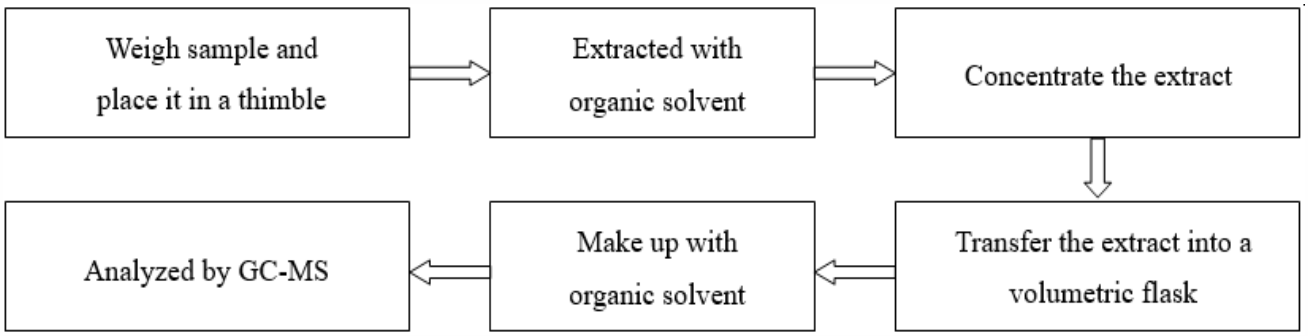
2. Mercury (Hg)



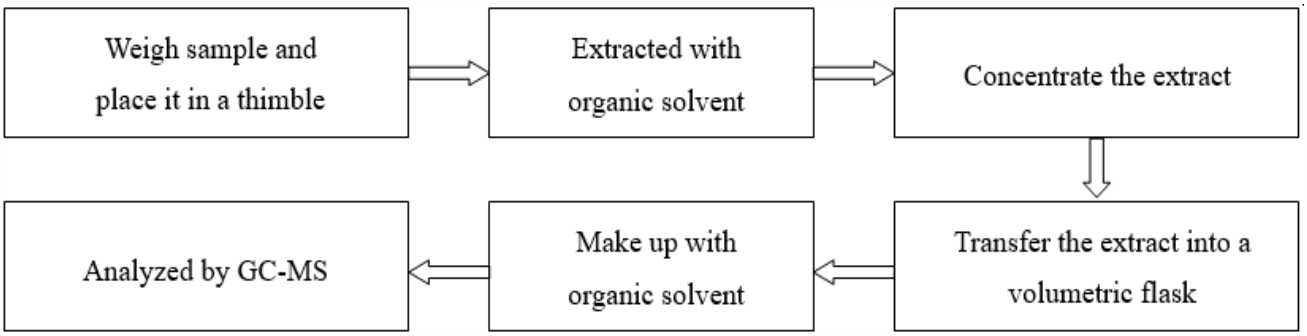
3. Hexavalent Chromium (Cr(VI))



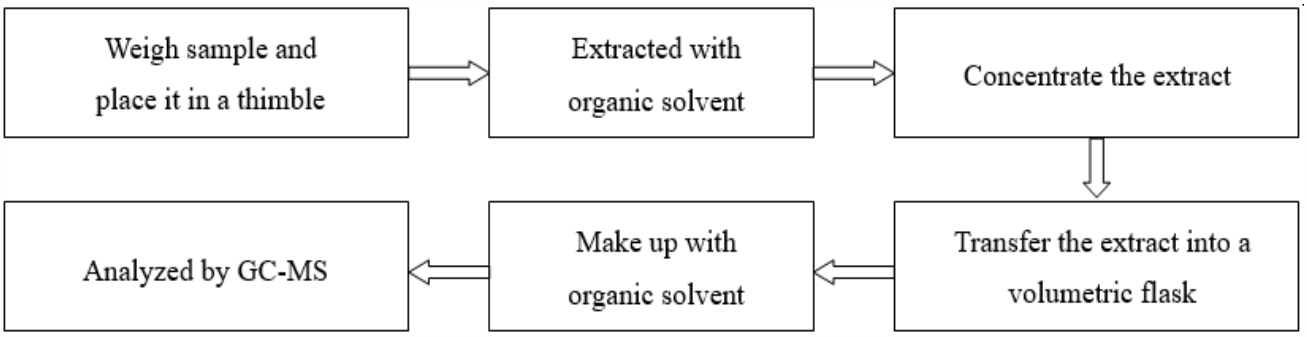
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



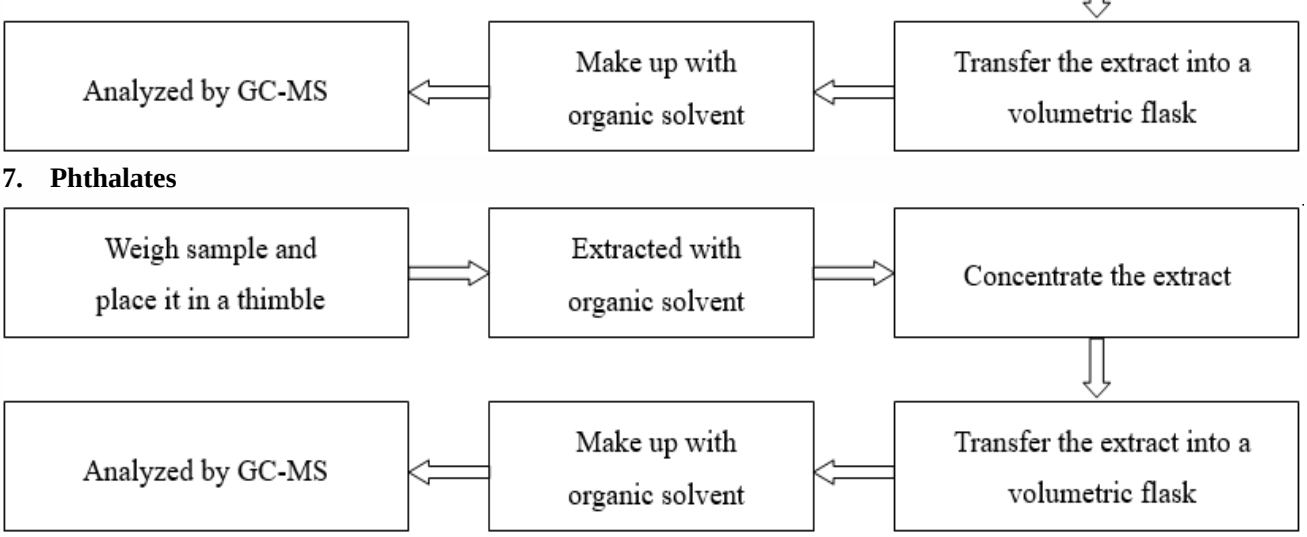
5. Phthalates (DBP, BBP, DEHP, DIBP)



6. Hexabromocyclododecane (HBCDD)



7. Phthalates



Test Report

Report No. A2240282836101018

Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 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 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

Test Report

No.: CANEC24002065602 **Date:** Feb 04, 2024

Client Name: DONGGUAN LUCKY FLY CONDUCTORCO.LTD

Client Address: QIAO ZI REGION CHANGPING TOWN DONGGUAN CITY GUANGDONG PROVINCE

Sample Name: TINNED COPPER WIRE

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

SGS Job No.: GZP24-002885

Sample Receiving Date: Jan 26, 2024

Testing Period: Jan 26, 2024 ~ Feb 03, 2024

Test Requested: Select 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).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Perfluorooctane Sulfonates (PFOS) and its derivatives	See Results
Element(s)	See Results

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

Arsene Ye

Arsene Ye
Approved Signatory

scan to see the report

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663
t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	CAN24-0020656-0001.C002	Silvery plated metal wire

Remarks:

(1) 1 mg/kg = 1 ppm = 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 (PBB), Polybrominated diphenyl ethers (PBDE), 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+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A2
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	0.10	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Technical Services Co., Ltd. Chemical Laboratory
检验检测专用章 Inspection & Testing Services

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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

Test Item(s)	Limit	Unit(s)	MDL	A2
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (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 Cr(VI) if the Cr(VI)concentration is greater than 0.13 μg/cm^2. The sample coating is considered to contain Cr(VI).
b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm^2). The coating is considered a non-Cr(VI) based coating.
c. The result between 0.10 μg/cm^2 and 0.13 μg/cm^2 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.

AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 15 PAHs	-	mg/kg	-	ND

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Chemical Laboratory 检验检测专用章 Inspection & Testing Services

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Test Item(s)	CAS No.	Unit(s)	MDL	A2
Material Category	-	-	-	-

Notes:

AfPS（German commission for Product Safety）: PAHs requirements

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children[a,b] up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact[c] with skin during the intended or foreseeable use[d].		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1

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Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Notes:
[a] A "Child" is legally defined as a person before reaching the age of 14 years.
[b] Use by children includes both active and passive contact by children.
[c] Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)
[d] According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark:
The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Perfluorooctane Sulfonates (PFOS) and its derivatives

Test Method: Modified CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
PFOS and its derivatives	-	mg/kg	-	ND
Perfluorooctane Sulfonates (PFOS) and its salts*	1763-23-1	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND

Notes:
(1) Perfluorooctane sulfonates (PFOS) and its salts* including PFOS (CAS No. 1763-23-1), POSF(CAS No. 307-35-7), PFOS-K (CAS No. 2795-39-3), PFOS-NH_4 (CAS No. 29081-56-9), PFOS-$N(C_{10}H_{21})_2(CH_3)_2$ (CAS No. 251099-16-8), PFOS-$NH_2(C_2H_4OH)_2$ (CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5), PFOS-$N(C_2H_5)_4$ (CAS No. 56773-42-3) and PFOS-Na (CAS No. 4021-47-0). The result of PFOS is used to represent PFOS and its salts.

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Element(s)

Test Method: With reference to US EPA 3050B:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	A2
Beryllium(Be)	mg/kg	5	ND

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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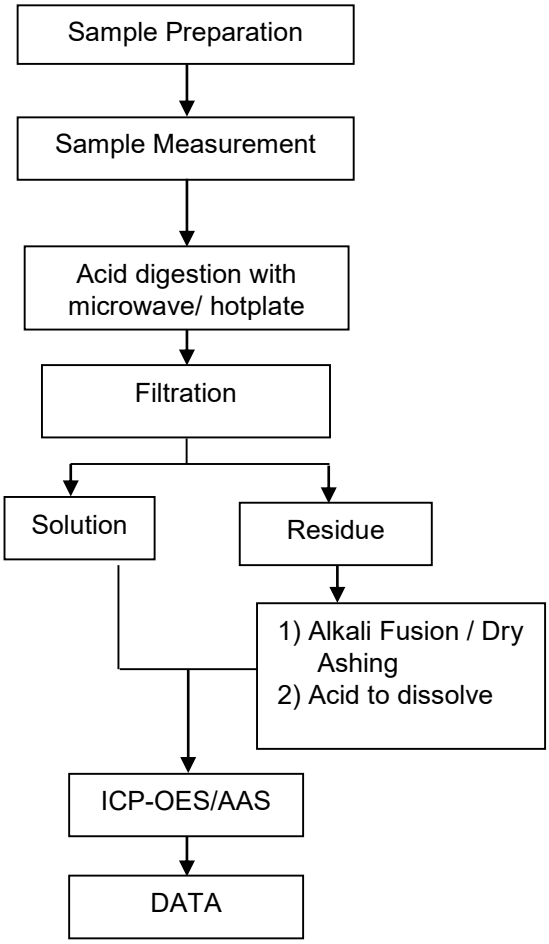
Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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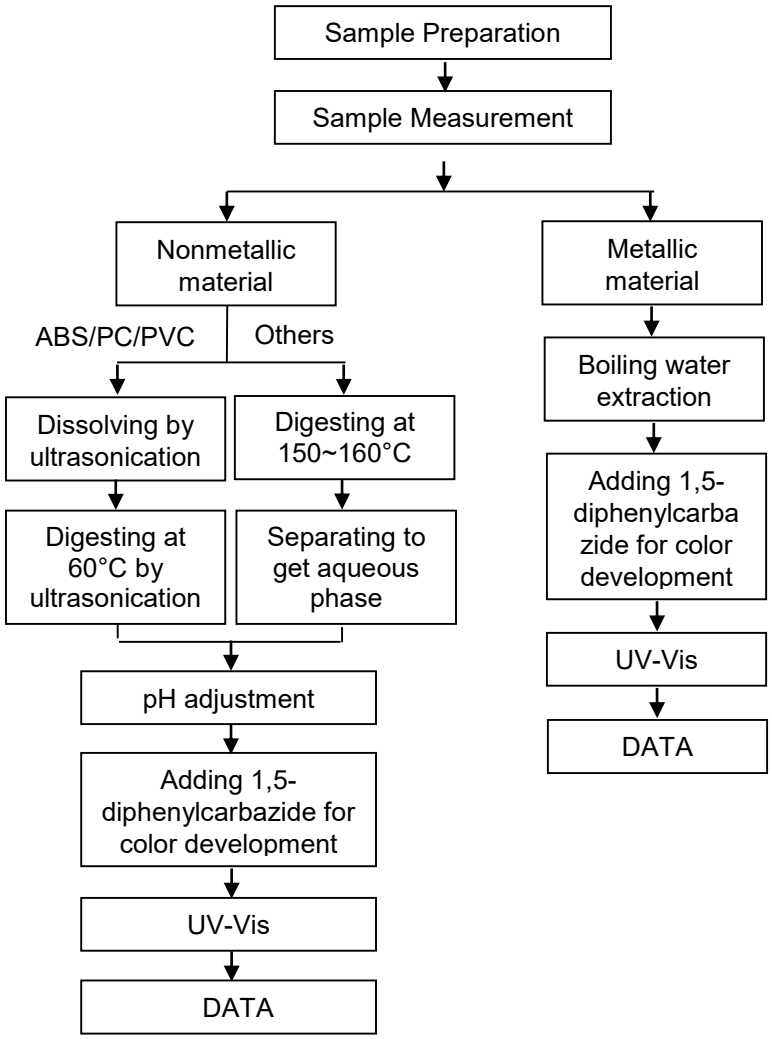
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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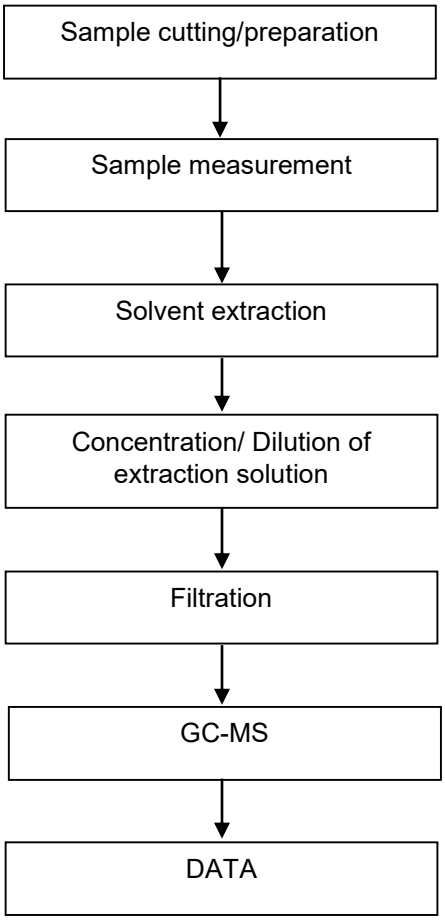
PBB/PBDE Testing Flow Chart



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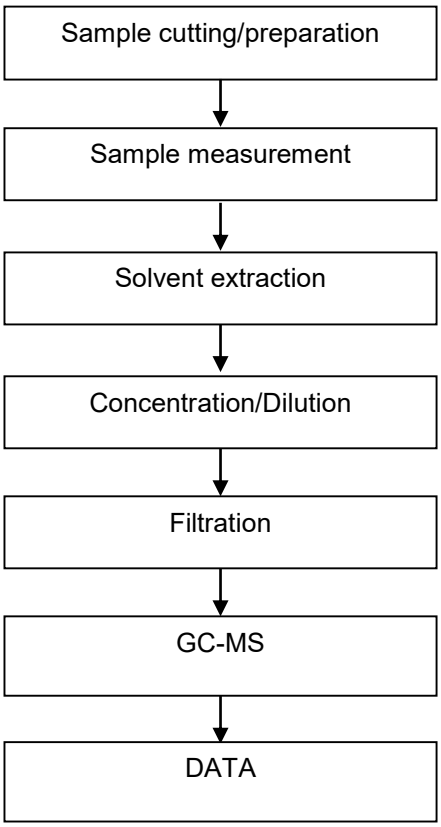
Phthalates Testing Flow Chart



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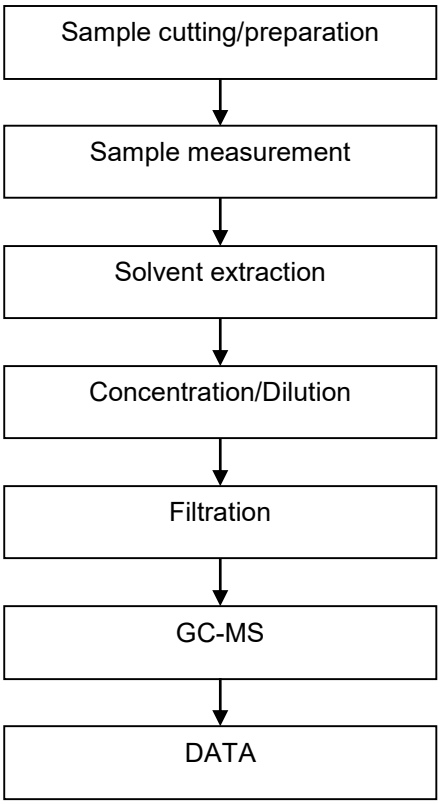
PAHs Testing Flow Chart



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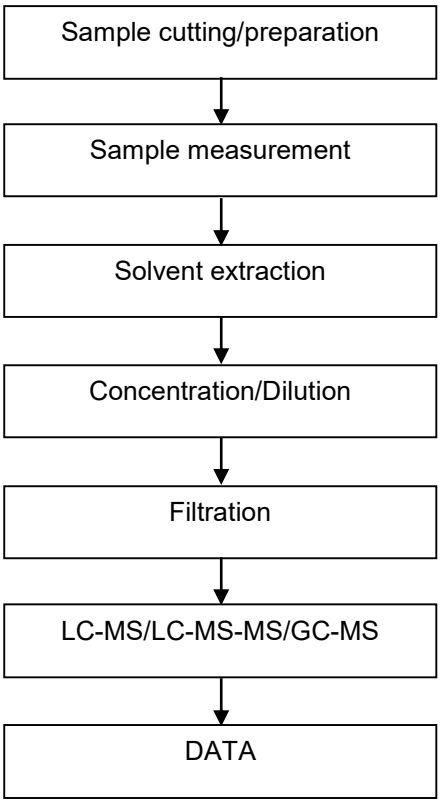
PFASs/ PFOS/PFOA Testing Flow Chart



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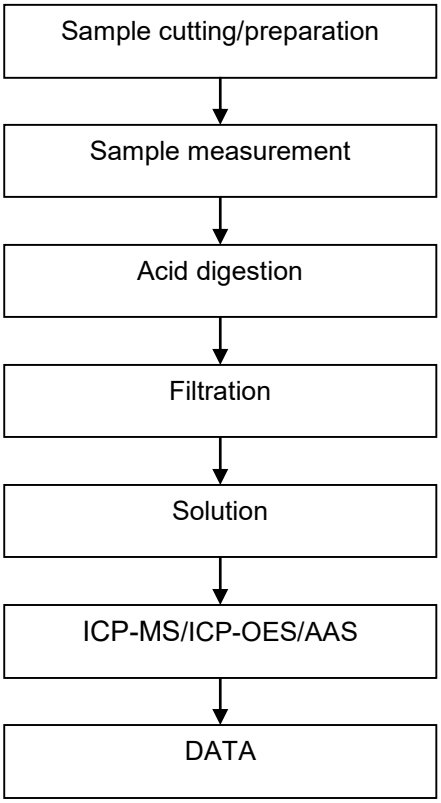
Elements Testing Flow Chart



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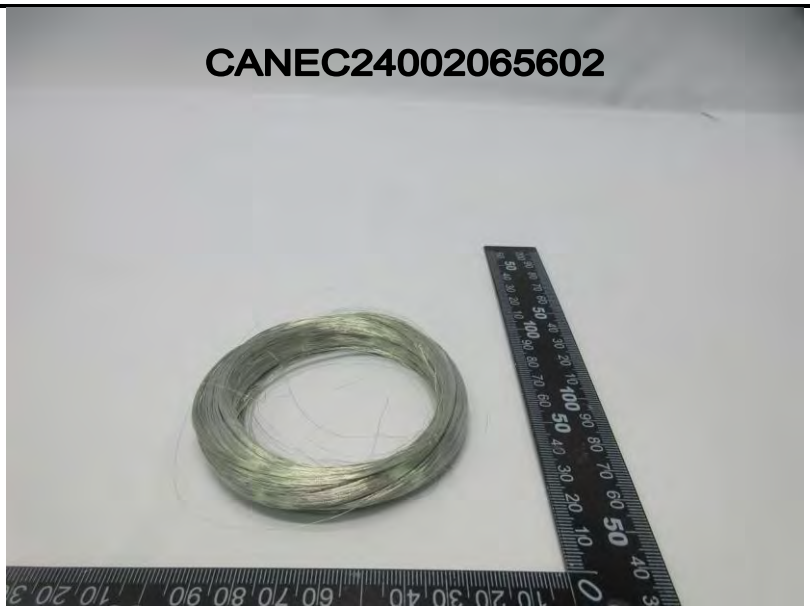

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