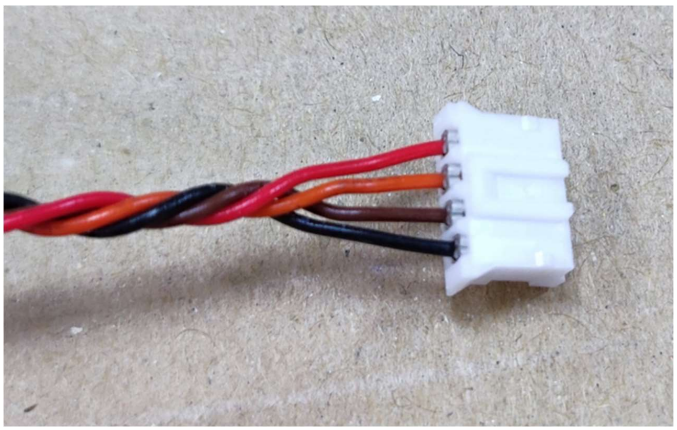
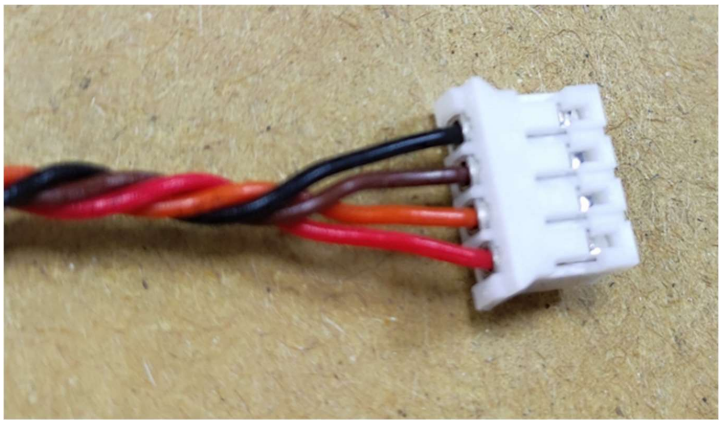
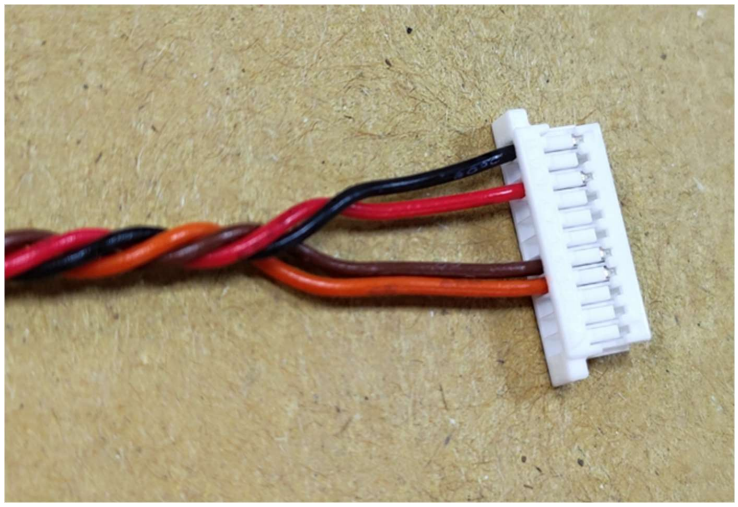
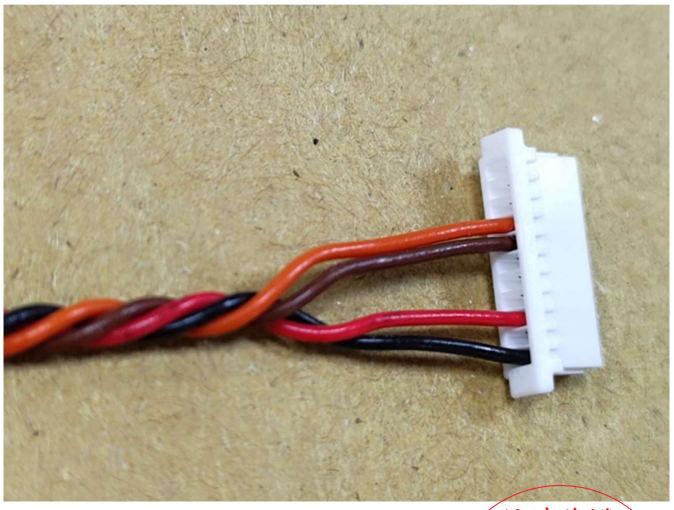










設計驗證
工程課
2023.11.10
發行
鈺緯科技開發股份有限公司

承　認　書

客戶名稱	鈺緯科技	品名規格	
客戶料號	3KH00294000(K1167)	稳德料号	
使用機型		成品單重	
認可日期	2023年09月27日	材料種類	

客戶簽認		
設計驗證 工程課 2023.11.10 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

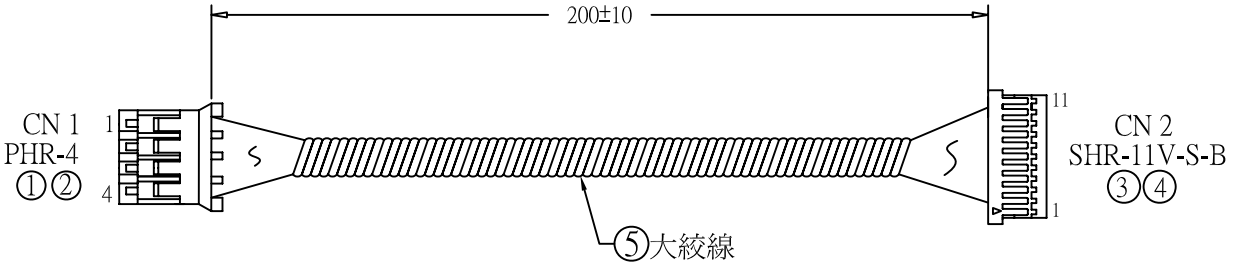
东莞穩德電子有限公司

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	紅	9
2	橙	4
3	棕	5
4	黑	11

備註：
1、裁線長度： 2.5 x 218 x 1.3
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
2023.11.10
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鈺緯科技開發股份有限公司

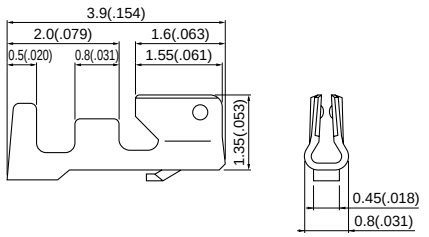
NO. 項次	Description 規格說明	Unit 單位	Q"TY 單用量	Remark 備注
5	UL1571#28 OD:0.8 紅,橙,棕,黑 L=218	PCS	各1	眾達
4	TER:SSH-003T-P0.2-H	PCS	4	JST
3	HSG:SHR-11V-S-B	PCS	1	JST
2	TER:SPH-002T-P0.5L	PCS	4	JST
1	HSG:PHR-4	PCS	1	JST

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

Approval 檢查規范				ISSUE NO. 版次	REV. A	Customer 客戶名稱	鈺緯科技	WEN DE ELECTRONICS CO.,LTD.
Approve 核准	Check 复核	Confirm 確認	Draw By 繪圖		Unit : mm 單位	Drawing No. 品名		
				A	Scale : 比例	PART NO. 料號	3KH00294000 (K1167)	
					2023.10.31	DRAW NO. 繪圖編號		

Q-008B

Contact



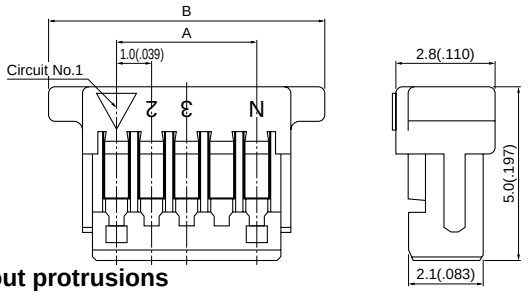
Model No.	Applicable wire			Q'ty / reel
	mm²	AWG#	Insulation O.D. mm(in.)	
SSH-003T-P0.2-H	0.032 to 0.08	32 to 28	0.4 to 0.8(.016 to .031)	23,000

Material and Finish
Phosphor bronze, tin-plated

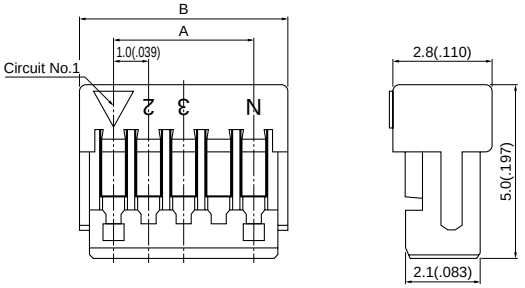
Note: Contact JST for gold-plated contacts.

Housing

With protrusions



Without protrusions



Circuits	Model No.		Dimensions mm(in.)			Q'ty / box
			A	B		
	With protrusions	Without protrusions		With protrusions	Without protrusions	
2	**SHR-02V-S-B**	**SHR-02V-S**	1.0(.039)	5.0(.197)	3.0(.118)	2,000
3	**SHR-03V-S-B**	**SHR-03V-S**	2.0(.079)	6.0(.236)	4.0(.157)	2,000
4	**SHR-04V-S-B**	**SHR-04V-S**	3.0(.118)	7.0(.276)	5.0(.197)	2,000
5	**SHR-05V-S-B**	**SHR-05V-S**	4.0(.157)	8.0(.315)	6.0(.236)	2,000
6	**SHR-06V-S-B**	**SHR-06V-S**	5.0(.197)	9.0(.354)	7.0(.276)	2,000
7	**SHR-07V-S-B**	**SHR-07V-S**	6.0(.236)	10.0(.394)	8.0(.315)	2,000
8	**SHR-08V-S-B**	**SHR-08V-S**	7.0(.276)	11.0(.433)	9.0(.354)	2,000
9	**SHR-09V-S-B**	**SHR-09V-S**	8.0(.315)	12.0(.472)	10.0(.394)	2,000
10	**SHR-10V-S-B**	**SHR-10V-S**	9.0(.354)	13.0(.512)	11.0(.433)	2,000
11	**SHR-11V-S-B**	**SHR-11V-S**	10.0(.394)	14.0(.551)	12.0(.472)	2,000
12	**SHR-12V-S-B**	**SHR-12V-S**	11.0(.433)	15.0(.591)	13.0(.512)	2,000
13	**SHR-13V-S-B**	**SHR-13V-S**	12.0(.472)	16.0(.630)	14.0(.551)	2,000
14	**SHR-14V-S-B**	**SHR-14V-S**	13.0(.512)	17.0(.669)	15.0(.591)	2,000
15	**SHR-15V-S-B**	**SHR-15V-S**	14.0(.551)	18.0(.709)	16.0(.630)	2,000
20	**SHR-20V-S-B**	–	19.0(.748)	23.0(.906)	21.0(.827)	2,000

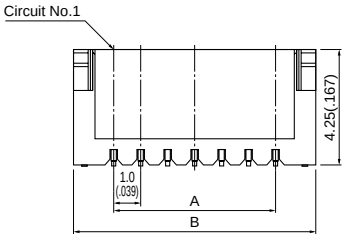
Meterial
PBT, UL94V-0, natural (white)

Note: SHR-20V-S-B is not CSA approved.

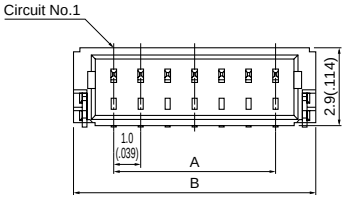
Shrouded header

The shrouded headers are interchangeable with those of the SR insulation displacement connectors.

Top entry type



Side entry type

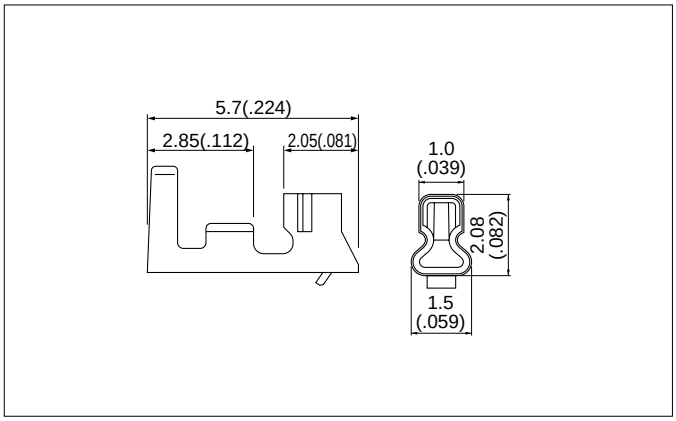


Circuits	Model No.		Dimensions mm(in.)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**BM02B-SRSS-TB**	**SM02B-SRSS-TB**	1.0(.039)	4.0(.157)	1,500	3,000
3	**BM03B-SRSS-TB**	**SM03B-SRSS-TB**	2.0(.079)	5.0(.197)	1,500	3,000
4	**BM04B-SRSS-TB**	**SM04B-SRSS-TB**	3.0(.118)	6.0(.236)	1,500	3,000
5	**BM05B-SRSS-TB**	**SM05B-SRSS-TB**	4.0(.157)	7.0(.276)	1,500	3,000
6	**BM06B-SRSS-TB**	**SM06B-SRSS-TB**	5.0(.197)	8.0(.315)	1,500	3,000
7	**BM07B-SRSS-TB**	**SM07B-SRSS-TB**	6.0(.236)	9.0(.354)	1,500	3,000
8	**BM08B-SRSS-TB**	**SM08B-SRSS-TB**	7.0(.276)	10.0(.394)	1,500	3,000
9	**BM09B-SRSS-TB**	**SM09B-SRSS-TB**	8.0(.315)	11.0(.433)	1,500	3,000
10	**BM10B-SRSS-TB**	**SM10B-SRSS-TB**	9.0(.354)	12.0(.472)	1,500	3,000
11	**BM11B-SRSS-TB**	**SM11B-SRSS-TB**	10.0(.394)	13.0(.512)	1,500	3,000
12	**BM12B-SRSS-TB**	**SM12B-SRSS-TB**	11.0(.433)	14.0(.551)	1,500	3,000
13	**BM13B-SRSS-TB**	**SM13B-SRSS-TB**	12.0(.472)	15.0(.591)	1,500	3,000
14	**BM14B-SRSS-TB**	**SM14B-SRSS-TB**	13.0(.512)	16.0(.630)	1,500	3,000
15	**BM15B-SRSS-TB**	**SM15B-SRSS-TB**	14.0(.551)	17.0(.669)	1,500	3,000
20	–	**SM20B-SRSS-TB**	19.0(.748)	22.0(.866)	–	3,000

Material and Finish
Contact: Copper alloy, copper-undercoated, tin/lead-plated Housing: Polyamide, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin/lead-plated

Note: 1. The products listed above are supplied on embossed-tape.
2. Contact JST for the headers with gold-plated pins.
3. Contact JST for the top entry type headers with suction cap.
4. SM20B-SRSS-TB is not CSA approved.

Contact

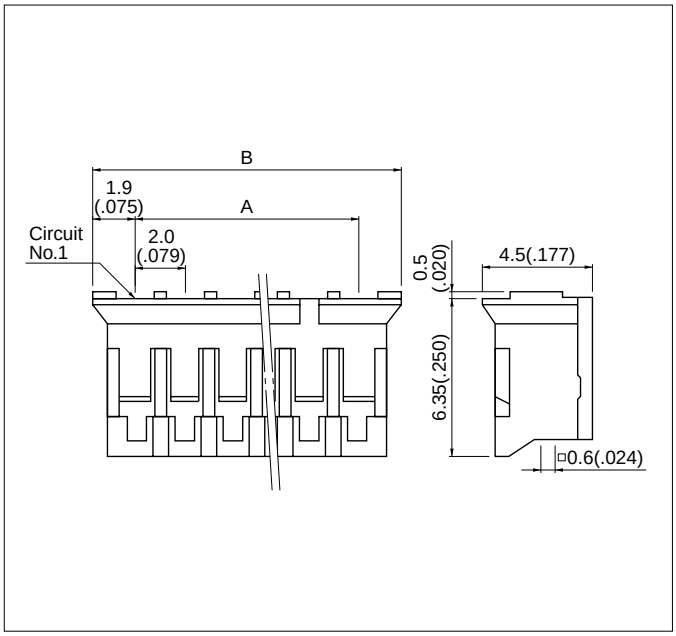


Model No.	Applicable wire			Q'ty / reel
	mm²	AWG #	Insulation O.D. mm(in.)	
SPH-002T-P0.5S	0.05 to 0.22	30 to 24	0.9 to 1.5(.035 to .059)	8,000
SPH-004T-P0.5S	0.032 to 0.08	32 to 28	0.5 to 0.9(.020 to .035)	10,000

Material and Finish
Phosphor bronze, tin-plated

Note: 1. When using AWG#32 or #30 wires, reflow-treated headers (Low insertion force type, Model no. B#B-PH-KL or S#B-PH-KL) are recommendable.
2. Contact JST for gold-plated contacts.

Housing



Cir-cuits	Model No.	Dimensions mm(in.)		Q'ty / box
		A	B	
2	**PHR- 2**	2.0(.079)	5.8(.228)	1,000
3	**PHR- 3**	4.0(.157)	7.8(.307)	1,000
4	**PHR- 4**	6.0(.236)	9.8(.386)	1,000
5	**PHR- 5**	8.0(.315)	11.8(.465)	1,000
6	**PHR- 6**	10.0(.394)	13.8(.543)	1,000
7	**PHR- 7**	12.0(.472)	15.8(.622)	1,000
8	**PHR- 8**	14.0(.551)	17.8(.701)	1,000
9	**PHR- 9**	16.0(.630)	19.8(.780)	1,000
10	**PHR-10**	18.0(.709)	21.8(.858)	1,000
11	**PHR-11**	20.0(.787)	23.8(.937)	1,000
12	**PHR-12**	22.0(.866)	25.8(1.016)	1,000
13	**PHR-13**	24.0(.945)	27.8(1.094)	1,000
14	**PHR-14**	26.0(1.024)	29.8(1.173)	1,000
15	**PHR-15**	28.0(1.102)	31.8(1.252)	1,000
16	**PHR-16**	30.0(1.181)	33.8(1.331)	1,000

Material and Finish
Nylon 66, UL94V-0, natural (white)

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **PHR-2-oo**
(blank)…natural (white)
BK…black R…red TR…tomato red BL…blue Y…yellow
L…lemon yellow M…green D…orange N…brown
P…purple PK…pink H…gray LE…light blue
FY…vivid yellow

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

No.: CANEC23004242102 **Date:** Jun 14, 2023

Client Name: SHENZHEN CHEN JIA TECHNOLOGY CO., LTD.

Client Address: RM506, SHIYUAN CENTER, FENGHUA GARDEN, BAISHIXIA, FUYONG TOWN, BAOAN DISTRICT, SHENZHEN

Sample Name:	TERMINAL
Model No.:	SXA-001T-P0.6
Material No.:	SXA-001T-P0.6
Client Ref. Information:	SEE ATTACHMENT
Main Substance:	copper alloy, phosphor bronze, copper alloy tin-plated, copper alloy, gold-plated, phosphor bronze tin-plated, phosphor bronze gold-plated
Manufacturer:	J.S.T Mfg. Co. LTD

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

SGS Job No.:	GZP23-003973
Sample Receiving Date:	Jun 08, 2023
Testing Period:	Jun 08, 2023 ~ Jun 14, 2023
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 and Hexavalent chromium	Pass

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

Jessie-JX Li
Approved Signatory

scan to see the report
A8167252

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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 sgs.china@sgs.com

Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	CAN23-0042421-0001.C002	Silvery plated metal

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 and Hexavalent chromium

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 and IEC 62321-7-1:2015, analysis was performed by ICP-OES and UV-Vis .

Test Item(s)	Limit	Unit(s)	MDL	A2
Cadmium(Cd)	100	mg/kg	2	ND
Lead(Pb)	1000	mg/kg	2	20
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 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.

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.

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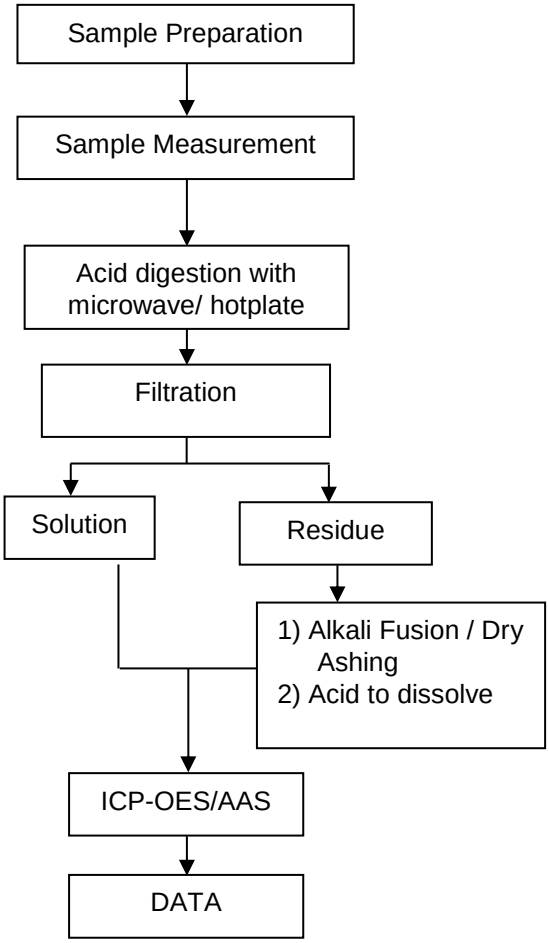
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 sgs.china@sgs.com

ATTACHMENTS

Elements Testing Flow Chart

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



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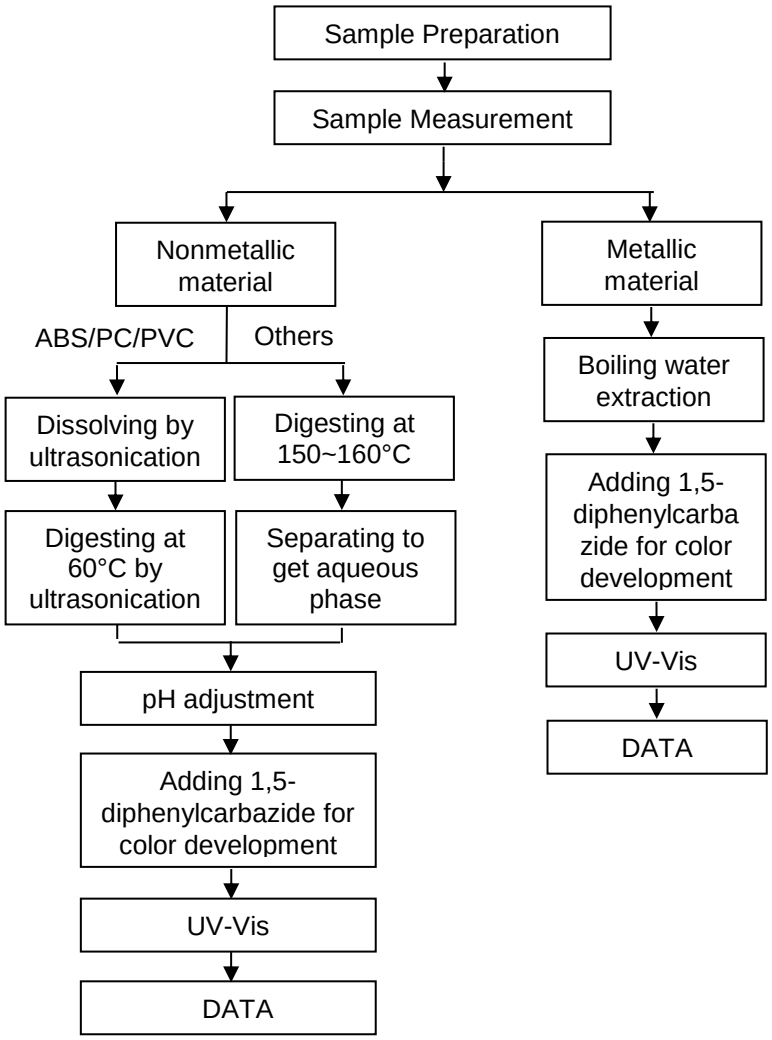
ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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Attachment:

Be used for: 1, 1.25FJ connector, 1.25FJ-N connector;

2, 2.54SB header, 2.5FJ connector, 2.5FJ-N connector, 2.5SB header;

A, ACA connector, ACH connector, ACH connector, ACHF Connector, ACHL connector,
ADH Connector, AGH connector, AIT connector, AIT-II connector, AN connector,
APSH connector, ARV connector, AS connector, ASG connector, ASR connector,
ASU connector, ATL connector, ATLC connector, ATSS connector,
AUH Connector, AYU1 connector;

B, BC header, BCC connector, BD connector, BD connector, BH connector,
BH connector, BH connector, BHL connector, BHM connector, BHM connector,
BHS connector, BHS connector, BHT connector, BHT connector,
BIC connector, BL connector, BTT connector;

C, CFF connector, CIF connnecor, CIT connector, CK connector, CL connector, CN connector,
CN connector, CPI connector, CPT connector, CR connector, CRK connector, CS connector,
CSH connector, CSR connector, CZ/CZW connector, CZH/CZHW connector;

D, DA connector, DAC connector, DB connector, DCJ connector, DD/DS connector,
DIM connector, DIN connector, DM-144P connector, DM-144P connector,
DM-200P connector, DM-72P connector, DR connector, DV connector, Dsub connector;

E, E-4, EA1 connector, EA2 connector, EH connector, EL connector, EP connector, EP-1;

F, FAB connector, FAZ connector, FCH Connector, FCT connector, FDZ connector,
FE connector, FFS connector, FGEM connector, FH connector, FHA Connector,
FHH connector, FHJ connector, FHS connector, FHSY connector, FHY connector,
FJ connector, FJ-K connector, FJ-L connector, FJ-V connector, FKZ connector,
FLH connector, FLT connector, FLZ connector, FLZT connector, FLZX connector,
FM connector, FMN connector, FMS connector, FMZ connector, FOX connector,
FPZ connector, FUN connector, FVX connector, FVXL Connector, FVXS connector,
FXM connector, FXR connector, FXRH connector, FXS connector, FXV connector,
FXVL Connector, FXW connector, FXY connector, FXZ connector, FXZT connector,
FY connector, FZ connector, FZA Connector, FZC Connector;

G, GH connector, GHD connector, GIT connector, GIT connector, GVH connector;

H, HCH connector, HCM connector, HIC connector, HIL connector, HIT connector,
HL connector, HL connector, HM connector, HPD-M2A, HPS connector, HQF connector,
HQM connector, HR connector, HR connector, HSDP connector, HTB connector,
HVD connector, HVGT connector, HVGW connector, HVQ connector;

I, IG connector, IS Connector;

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J, JAK connnector, JAN connector, JAS connector, JAV connector, JDV connector,
JE connector, JED connector, JET connector, JFA connector, JFC connector,
JFPS connector, JL connector, JM connector, JMC connector, JMD connector,
JQ connector, JU connector, JUX connector, JWPF connector, JWPF connector,
JWPS connector, JWPS connector, JXV connector;
K, KR connector, KRD connector, KRW connector;
L, LC connector, LD-Y connector, LEA connector, LEB connector, LEH connector,
LEK connector, LEL connector, LEN connector, LEX connector, LV connector;
M, MBS header, MD connector, MEC connector, MG connector, MIH connector,
MIO connector, MJ connector, MMJ connector, MQ connector, MS connector,
MSA connector, MSA terminal, MUF connector, MV connector, MWP connector;
N, NAC-I connector, NFG connector, NH connector, NR connector, NRD connector,
NSH connector, NSHD connector, NV connector, NVA connector;
O, OTZ connector;
P, PA connector, PA connector, PAD connector, PAF connector, PAL connector,
PB connector, PBV connector, PC Card connector, PEA connector, PFW connector,
PH connector, PH connector, PHD connector, PLI connector, PND connector, PNI connector,
PNI connector, PNI connector, PS connector, PUD connector, PXA connector;
R, RA connector, RAD connector, RARSF connector, RC connector, RCD-M9BE,
RCY connector, RE connector, RF connector, RFC connector, RHM connector,
RIC connector, RIJ connector, RIZ connector, RK header, RPJ connector, RPZ connector,
RTZ connector, RV connector, RWZ connector, RWZ connector, RX connector;
S, SAB connector, SAC connector, SAN connector, SBO connector, SBO2 connector,
SCD-M15B, SCK connector, SCN connector, SCR connector, SCRL Connector,
SCRT Connector, SCYT Connector, SD connector, SDF connector, SDHK Connector,
SIN connector, SDHL connector, SDHR Connector, SDK connector, SDN connector,
SFH connector, SGN connector, SH connector, SHC connector, SHD connector,
SHJ connector, SHL connector, SHLD connector, SHLV connector, SJN connector,
SL connector, SM connector, SMF connector, SNA connector, SPF connector,
SPH2 connector, SQF connector, SQH connector, SQM connector, SQSII connector,
SQS connector, SQSK connector, SQW connector, SQXW connector, SQZ connector,
SR/SZ connector, SRV connector, SSR connector, SUH connector, SUR connector,
SV connector, SZN connector;
T, TB header, TCS connector, THR connector, TR/TRW connector, TRZ connector,

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TSD connector, TSF connector, TZ/TZW connector;

U, UB connector, UB3 connector;

V, V connector, VA connector, VB connector, VH connector, VH connector, VL connector, VL connector, VR connector, VS header, VT connector, VU connector, VYH connector;

W, WIC connector, WPJ connector, WPJ connector, WPK connector;

X, XA connector, XA connector, XA connector, XA connector, XA connector, XAD connector, XAD connector, XAF connector, XAG connector, XAG connector, XH connector, XH connector, XL connector, XL connector, XM connector, XM connector, XMA connector, XNI connector, XSR connector;

Y, YF-1, YL connector, YLN connector;

Z, ZA connector, ZE connector, ZF/ZFW connector, ZH connector, ZPD connector, ZR connector, ZRO connector, ZM connector, ZL connector

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Sample Photo:



CAN23-0042421-0001.C002

SGS authenticate the photo on original report only

*** End of Report ***

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Test Report

No.: CANEC23004242101 **Date:** Jun 14, 2023

Client Name: SHENZHEN CHEN JIA TECHNOLOGY CO., LTD.

Client Address: RM506, SHIYUAN CENTER, FENGHUA GARDEN, BAISHIXIA, FUYONG TOWN, BAOAN DISTRICT, SHENZHEN

Sample Name:	HOUSING
Model No.:	XAP-04V-1
Material No.:	XAP-04V-1
Client Ref. Information:	SEE ATTACHMENT
Main Substance:	PA, PA 6, PA 66, PA 6T, PA 9T, PBT, PPS, LCP
Manufacturer:	J.S.T Mfg. Co. LTD

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

SGS Job No.:	GZP23-003973
Sample Receiving Date:	Jun 08, 2023
Testing Period:	Jun 08, 2023 ~ Jun 14, 2023
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 (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

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

Jessie Li

Jessie-JX Li
Approved Signatory

scan to see the report
E5CBF545

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0042421-0001.C001	White plastic

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 (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+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Cadmium(Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND

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Test Item(s)	Limit	Unit(s)	MDL	A1
Bis-(2-ethylhexyl) Phthalate(DEHP)	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) 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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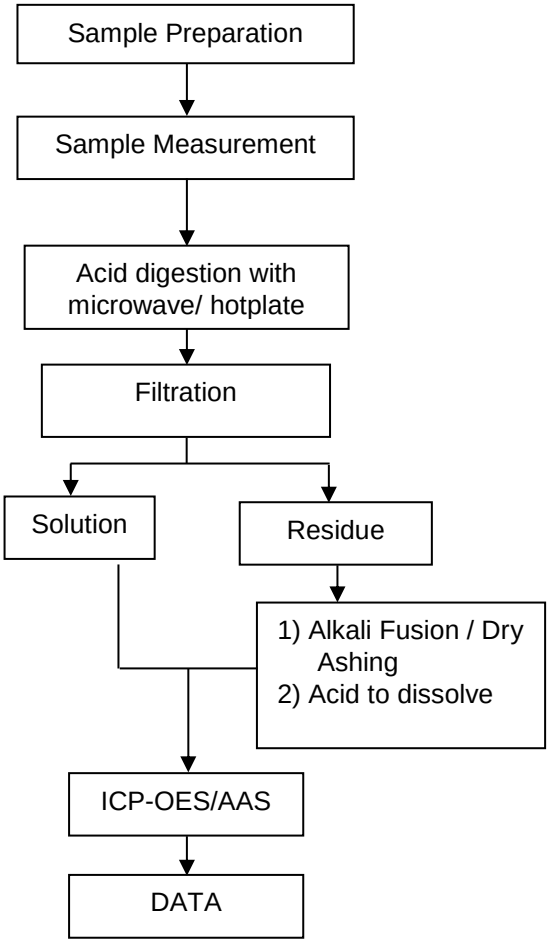
Elements Testing Flow Chart

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



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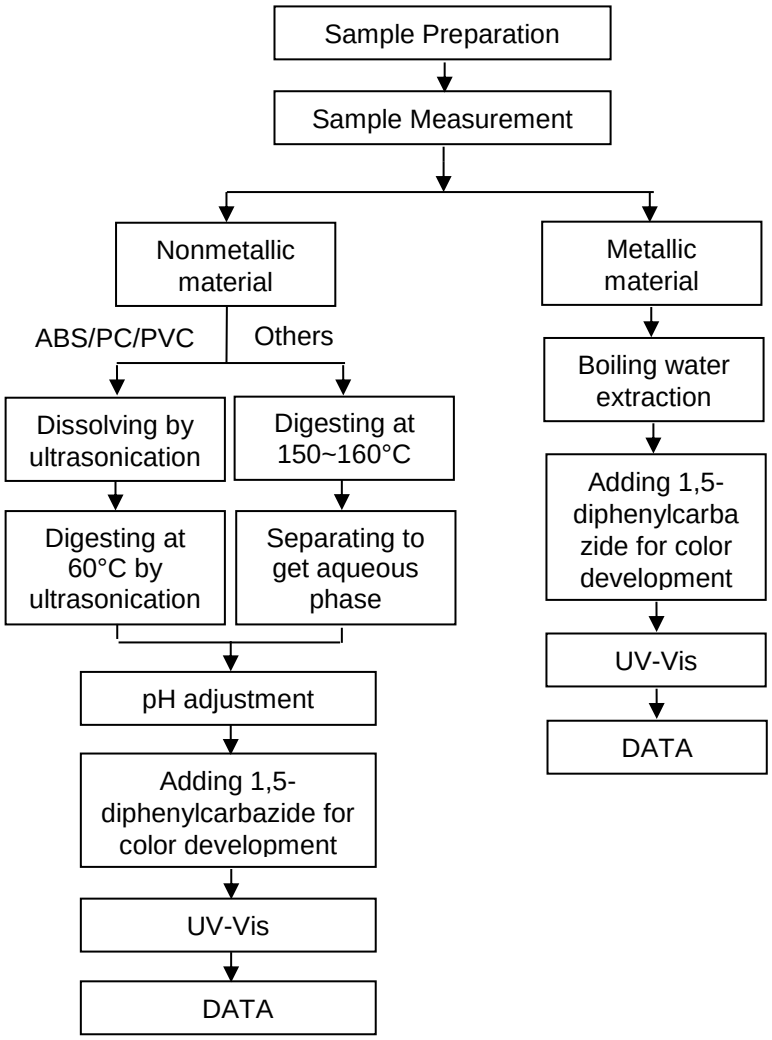
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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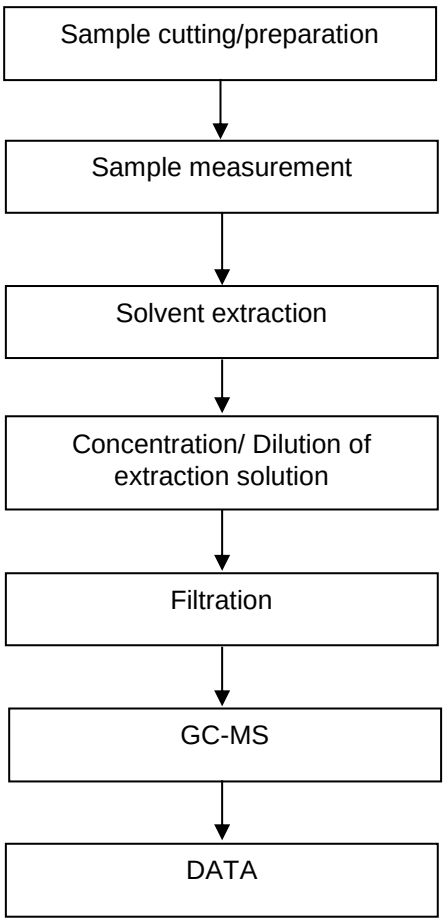
PBBs/PBDEs Testing Flow Chart



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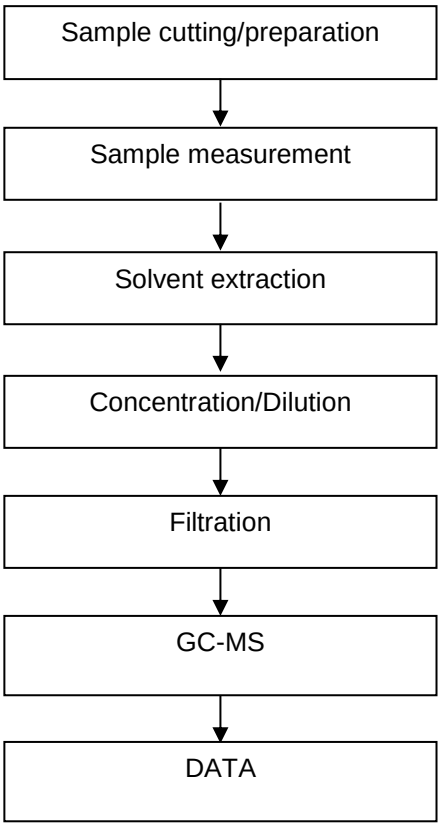
Phthalates Testing Flow Chart



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Attachment:

Be used for: 1, 1.25FJ connector, 1.25FJ-N connector;

2, 2.54SB header, 2.5FJ connector, 2.5FJ-N connector, 2.5SB header;

A, ACA connector, ACH connector, ACH connector, ACHF Connector, ACHL connector,
ADH Connector, AGH connector, AIT connector, AIT-II connector, AN connector,
APSH connector, ARV connector, AS connector, ASG connector, ASR connector,
ASU connector, ATL connector, ATLC connector, ATSS connector,
AUH Connector, AYU1 connector;

B, BC header, BCC connector, BD connector, BD connector, BH connector,
BH connector, BH connector, BHL connector, BHM connector, BHM connector,
BHS connector, BHS connector, BHT connector, BHT connector,
BIC connector, BL connector, BTT connector;

C, CFF connector, CIF connnecor, CIT connector, CK connector, CL connector, CN connector,
CN connector, CPI connector, CPT connector, CR connector, CRK connector, CS connector,
CSH connector, CSR connector, CZ/CZW connector, CZH/CZHW connector;

D, DA connector, DAC connector, DB connector, DCJ connector, DD/DS connector,
DIM connector, DIN connector, DM-144P connector, DM-144P connector,
DM-200P connector, DM-72P connector, DR connector, DV connector, Dsub connector;

E, E-4, EA1 connector, EA2 connector, EH connector, EL connector, EP connector, EP-1;

F, FAB connector, FAZ connector, FCH Connector, FCT connector, FDZ connector,
FE connector, FFS connector, FGEM connector, FH connector, FHA Connector,
FHH connector, FHJ connector, FHS connector, FHSY connector, FHY connector,
FJ connector, FJ-K connector, FJ-L connector, FJ-V connector, FKZ connector,
FLH connector, FLT connector, FLZ connector, FLZT connector, FLZX connector,
FM connector, FMN connector, FMS connector, FMZ connector, FOX connector,
FPZ connector, FUN connector, FVX connector, FVXL Connector, FVXS connector,
FXM connector, FXR connector, FXRH connector, FXS connector, FXV connector,
FXVL Connector, FXW connector, FXY connector, FXZ connector, FXZT connector,
FY connector, FZ connector, FZA Connector, FZC Connector;

G, GH connector, GHD connector, GIT connector, GIT connector, GVH connector;

H, HCH connector, HCM connector, HIC connector, HIL connector, HIT connector,
HL connector, HL connector, HM connector, HPD-M2A, HPS connector, HQF connector,
HQM connector, HR connector, HR connector, HSDP connector, HTB connector,
HVD connector, HVGT connector, HVGW connector, HVQ connector;

I, IG connector, IS Connector;

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J, JAK connnector, JAN connector, JAS connector, JAV connector, JDV connector,
JE connector, JED connector, JET connector, JFA connector, JFC connector,
JFPS connector, JL connector, JM connector, JMC connector, JMD connector,
JQ connector, JU connector, JUX connector, JWPF connector, JWPF connector,
JWPS connector, JWPS connector, JXV connector;
K, KR connector, KRD connector, KRW connector;
L, LC connector, LD-Y connector, LEA connector, LEB connector, LEH connector,
LEK connector, LEL connector, LEN connector, LEX connector, LV connector;
M, MBS header, MD connector, MEC connector, MG connector, MIH connector,
MIO connector, MJ connector, MMJ connector, MQ connector, MS connector,
MSA connector, MSA terminal, MUF connector, MV connector, MWP connector;
N, NAC-I connector, NFG connector, NH connector, NR connector, NRD connector,
NSH connector, NSHD connector, NV connector, NVA connector;
O, OTZ connector;
P, PA connector, PA connector, PAD connector, PAF connector, PAL connector,
PB connector, PBV connector, PC Card connector, PEA connector, PFW connector,
PH connector, PH connector, PHD connector, PLI connector, PND connector, PNI connector,
PNI connector, PNI connector, PS connector, PUD connector, PXA connector;
R, RA connector, RAD connector, RARSF connector, RC connector, RCD-M9BE,
RCY connector, RE connector, RF connector, RFC connector, RHM connector,
RIC connector, RIJ connector, RIZ connector, RK header, RPJ connector, RPZ connector,
RTZ connector, RV connector, RWZ connector, RWZ connector, RX connector;
S, SAB connector, SAC connector, SAN connector, SBO connector, SBO2 connector,
SCD-M15B, SCK connector, SCN connector, SCR connector, SCRL Connector,
SCRT Connector, SCYT Connector, SD connector, SDF connector, SDHK Connector,
SIN connector, SDHL connector, SDHR Connector, SDK connector, SDN connector,
SFH connector, SGN connector, SH connector, SHC connector, SHD connector,
SHJ connector, SHL connector, SHLD connector, SHLV connector, SJN connector,
SL connector, SM connector, SMF connector, SNA connector, SPF connector,
SPH2 connector, SQF connector, SQH connector, SQM connector, SQSII connector,
SQS connector, SQSK connector, SQW connector, SQXW connector, SQZ connector,
SR/SZ connector, SRV connector, SSR connector, SUH connector, SUR connector,
SV connector, SZN connector;
T, TB header, TCS connector, THR connector, TR/TRW connector, TRZ connector,

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TSD connector, TSF connector, TZ/TZW connector;

U, UB connector, UB3 connector;

V, V connector, VA connector, VB connector, VH connector, VH connector, VL connector,

VL connector, VR connector, VS header, VT connector, VU connector, VYH connector;

W, WIC connector, WPJ connector, WPJ connector, WPK connector;

X, XA connector, XA connector, XA connector, XA connector, XA connector,

XAD connector, XAD connector, XAF connector, XAG connector, XAG connector,

XH connector, XH connector, XL connector, XL connector, XM connector,

XM connector, XMA connector, XNI connector, XSR connector;

Y, YF-1, YL connector, YLN connector;

Z, ZA connector, ZE connector, ZF/ZFW connector, ZH connector, ZPD connector,

ZR connector, ZRO connector, ZM connector, ZL connector

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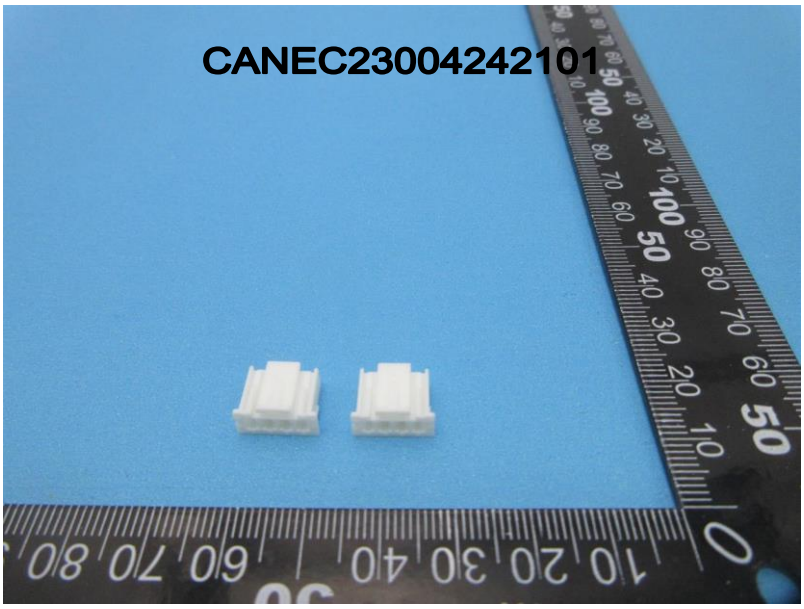
Sample Photo:



CAN23-0042421-0001.C001

SGS authenticate the photo on original report only

*** End of Report ***

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Test Report (SVHC)

Client Name : DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD

Client Address : QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE CHINA

Sample Name : BARE COPPER WIRE, TINNED COPPER WIRE

Main Substance : CU,SN

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

SGS Job No. : CP23-002716 - GZ

Date of Sample Received : 03 Feb 2023

Testing Period : 03 Feb 2023 - 09 Feb 2023

Test Requested : As requested by client, SVHC screening is performed according to:
(i) Two hundred and thirty-three (233) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 17, 2023 regarding Regulation (EC) No 1907/2006 concerning the REACH.
(ii) One (1) potential Substances of Very High Concern (SVHC) in the notification of WTO on Jun 1, 2021.

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

Summary :

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.	PASS

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

Coral Qiu

Coral Qiu
Approved Signatory

scan to see the report

CB666B8A

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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table
   These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:
   2.1 Concerning article(s):
   Communication:
   Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

   Notification:
   In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

   SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:
   http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

   2.2 Concerning material(s):
   Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

   If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

   2.3 Concerning substance and preparation:
   If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety

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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:
- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
(a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
(b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
(d) a substance for which there are Europe-wide workplace exposure limits.

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample :

Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN23-012223.003	Copper-colored metal wire(a)+silvery plated metal wire(b)

Test Method :

SGS In-House method- SGS-CCL-TOP-092-01, SGS-CCL-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.

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(SVHC)

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Potential SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested Potential SVHC	-	ND	-

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Notes :

1.The table above only shows detected SVHC, and SVHC that below RL are not reported.
Please refer to Appendix for the full list of tested SVHC.
2.RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.) ND = Not detected (lower than RL),
ND is denoted on the SVHC substance.
3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
** The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium, cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
5. Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
6. § The substance is proposed for the identification as SVHC only where it contains
Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
7. / = Potential SVHC
8.Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.
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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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050

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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005

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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005

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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005

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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005

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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005

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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.050
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl,branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	0.050
/	234	Resorcinol	108-46-3	0.050

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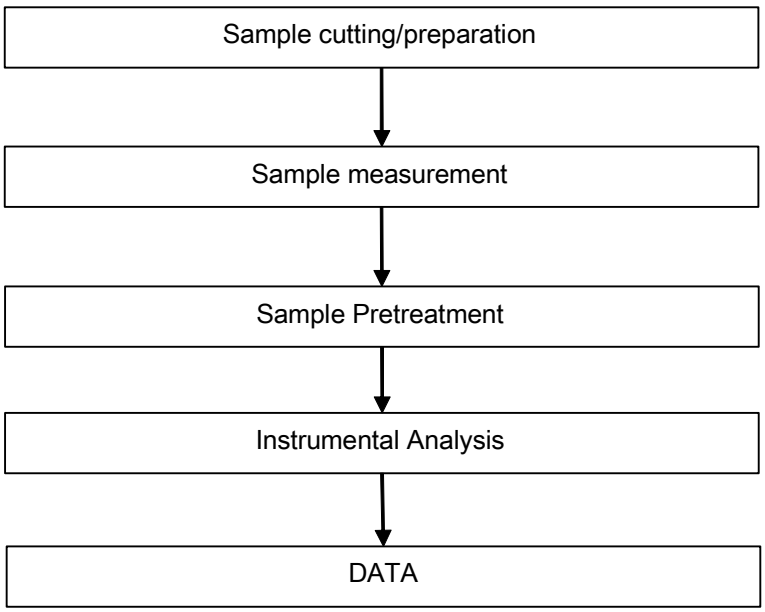
ATTACHMENTS

SVHC Testing Flow Chart



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Test Report

Report No. A2230262860101018

Company Name shown on Report	KAI TAT INDUSTRIES COMPANY
Address	BUILDING 1, NO.2 CHANGZHEN ROAD,CHANGZHEN COMMUNITY,YUTANG STREET,GUANGMING DISTRICT,SHENZHEN CITY

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name	UL1061
Color	Black jacket
Material	PVC Electronic wire
Sample Received Date	Jun. 1, 2023
Testing Period	Jun. 1, 2023 to Jun. 17, 2023

Test Requested	As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD), Phthalates in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).

****

Conclusion

Tested Sample	According to standard/directive	Result
Submitted Sample	RoHS Directive 2011/65/EU with amendment (EU) 2015/863	PASS

****

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

Approved by: Hill Zheng

Hill Zheng

Technical Manager

Date: Jun. 17, 2023

No. R262627962

Centre Testing International Group Co.,Ltd.
CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

Report No. A2230262860101018

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

Test Report

Report No. A2230262860101018

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

Report No. A2230262860101018

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

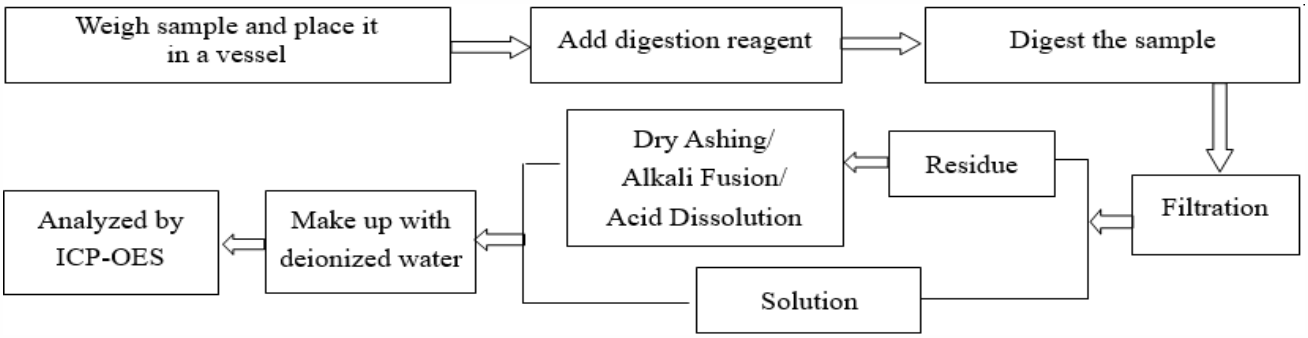
Note: ***Indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.**

Test Report

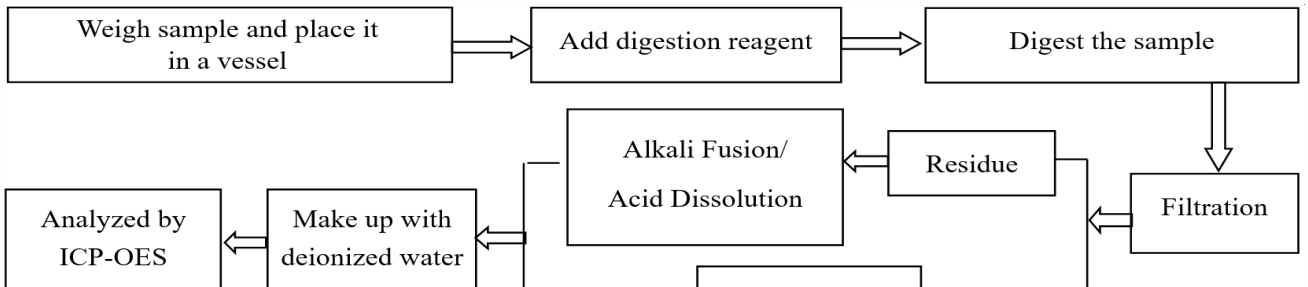
Report No. A2230262860101018

Test Process

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

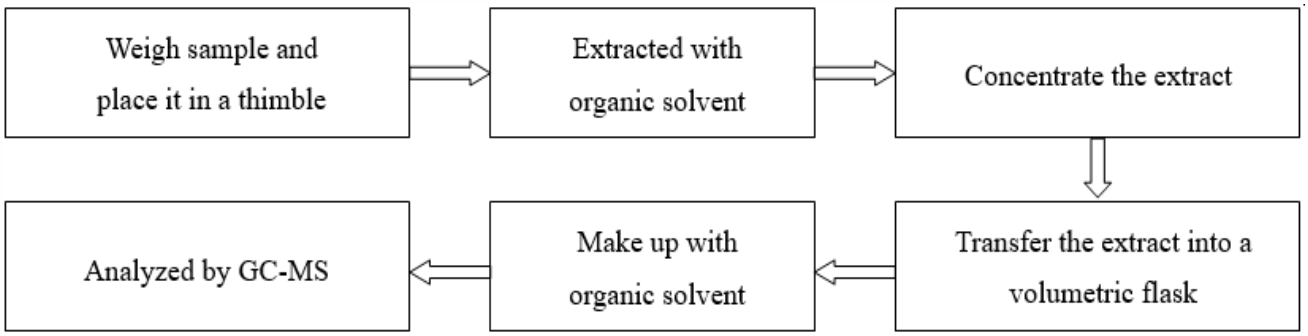


2. Mercury (Hg)

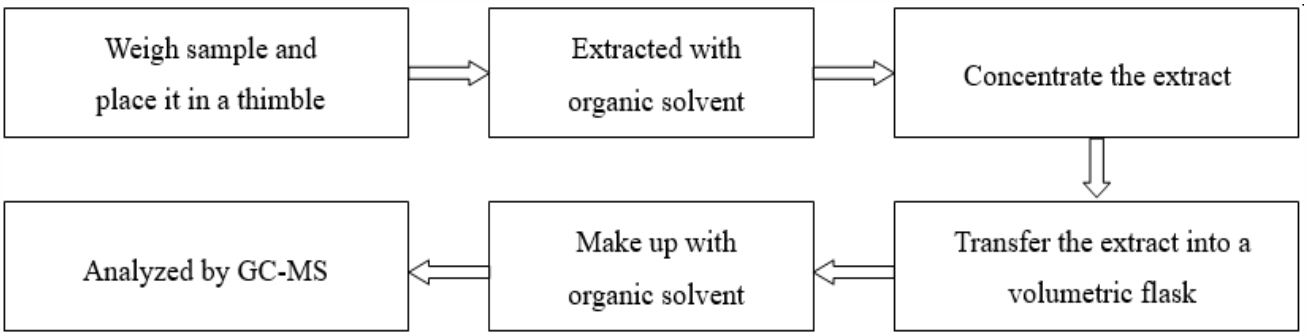


3. Hexavalent Chromium (Cr(VI))

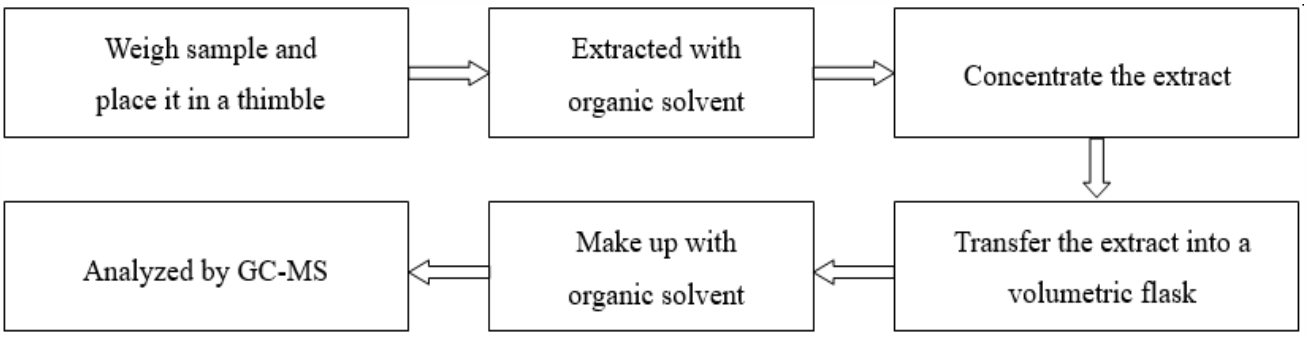
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



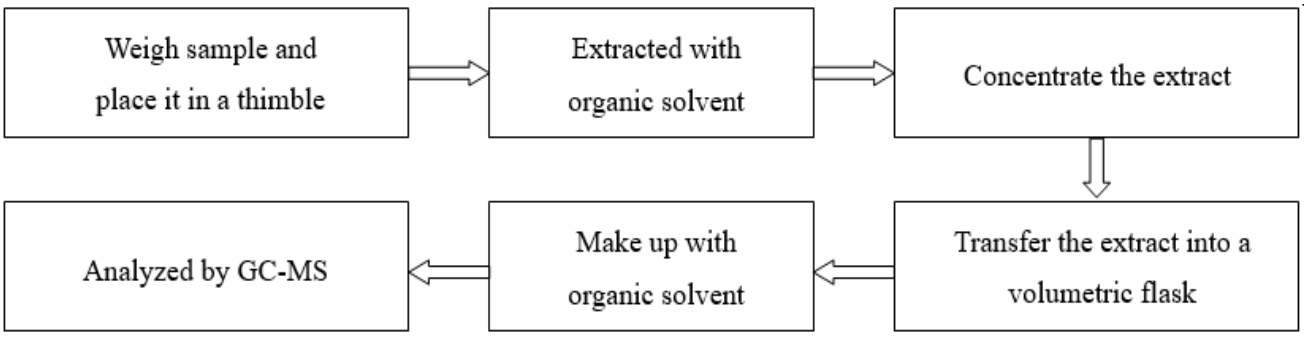
5. Phthalates (DBP, BBP, DEHP, DIBP)



6. Hexabromocyclododecane (HBCDD)



7. Phthalates



Test Report

Report No. A2230262860101018

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. Without written approval of CTI, this report can't be reproduced except in full;
5. 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 ***

Appendix

Client Reference Information

1007, 1061, 1095, 1571, 20276, 2468, 1015, 1617, 1672, 1185, 1533, 2464, 2547, 2517, 2854, 2835, 1430, 1431, 10272, 1032, 2651, 2661, 1569, 3443, 1028, 1685, 2103, 2661, 2920, 20080and FEIBIAO PVC LINE, CAR PVC LINE and rehearsal and line

Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2230262860101018.

Test Report

Report No. A2230262860101012

Company Name shown on Report KAI TAT INDUSTRIES COMPANY

Address BUILDING 1, NO.2 CHANGZHEN ROAD,CHANGZHEN COMMUNITY,YUTANG STREET,GUANGMING DISTRICT,SHENZHEN CITY

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name	UL1061
Color	Brown jacket
Material	PVC Electronic wire
Sample Received Date	Jun. 1, 2023
Testing Period	Jun. 1, 2023 to Jun. 17, 2023

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD), Phthalates in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

****

Conclusion

Tested Sample	According to standard/directive	Result
Submitted Sample	RoHS Directive 2011/65/EU with amendment (EU) 2015/863	PASS

****

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

Approved by Hill Zheng

Hill Zheng
Technical Manager

Date Jun. 17, 2023

No. R262627962

Centre Testing International Group Co.,Ltd.
CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

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

Test Report

Report No. A2230262860101012

Test Result(s)

Tested Item(s)	Result	MDL	Limit
	012		
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
	012		
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
	012		
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

Report No. A2230262860101012

Test Result(s)

Tested Item(s)	Result	MDL	Limit
	012		
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
	012	
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

Tested Item(s)	Result	MDL
	012	
Phthalates		
Di-2-propylheptyl phthalate (DPHpP) CAS#:53306-54-0*	N.D.	30 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	012	Brown wire jacket

Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million
-1000 mg/kg = 0.1%

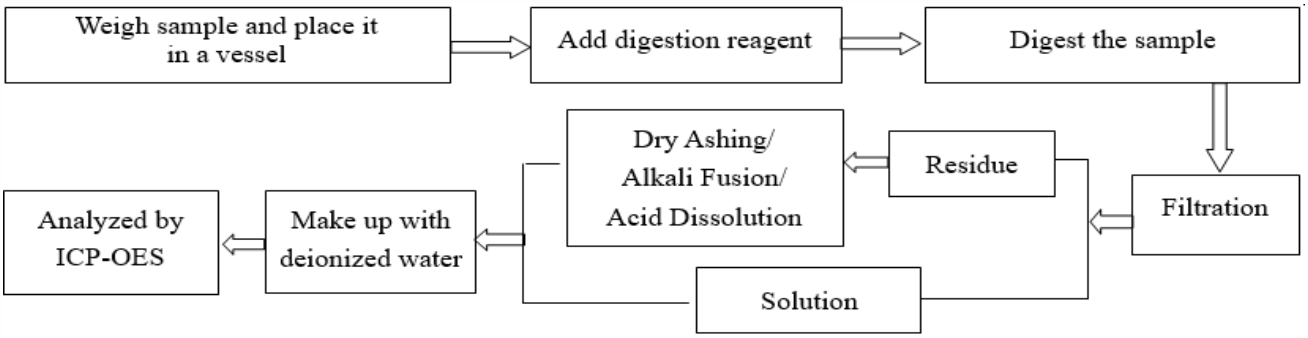
Note: ***Indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.**

Test Report

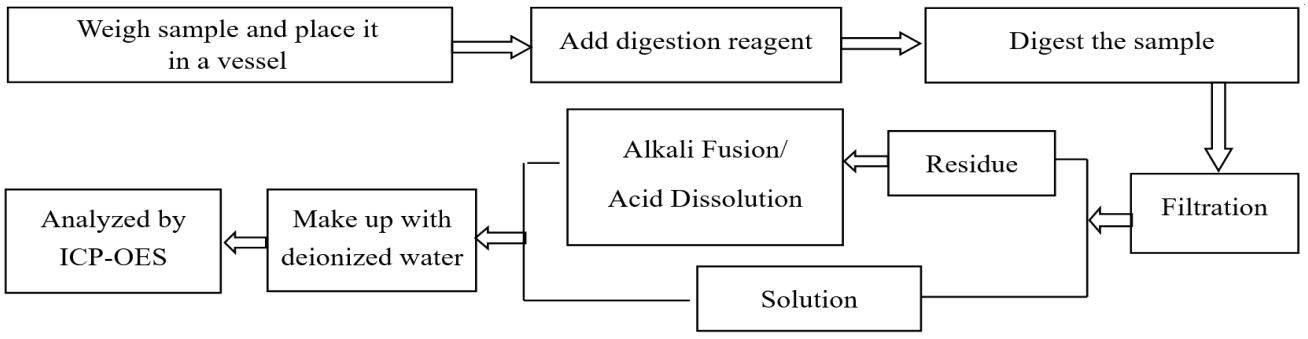
Report No. A2230262860101012

Test Process

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

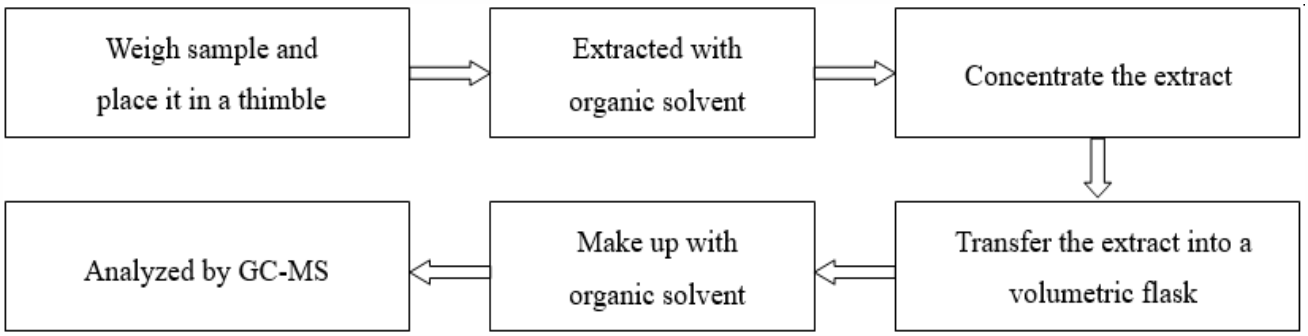


2. Mercury (Hg)

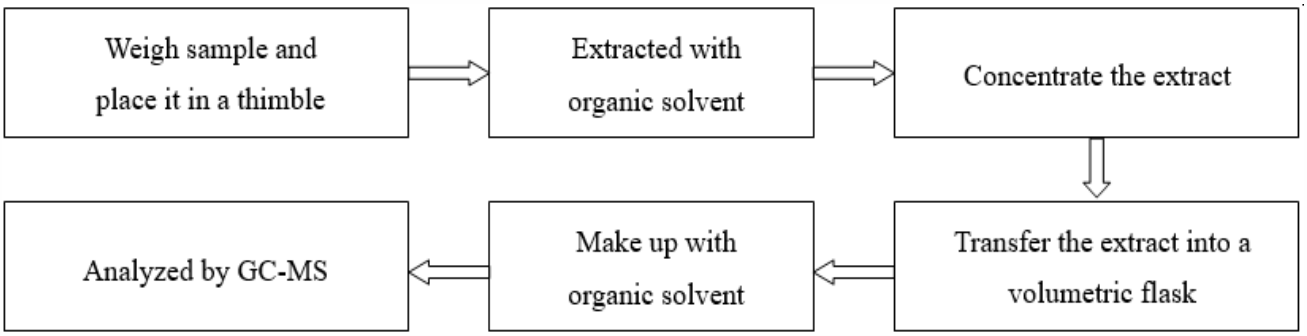


3. Hexavalent Chromium (Cr(VI))

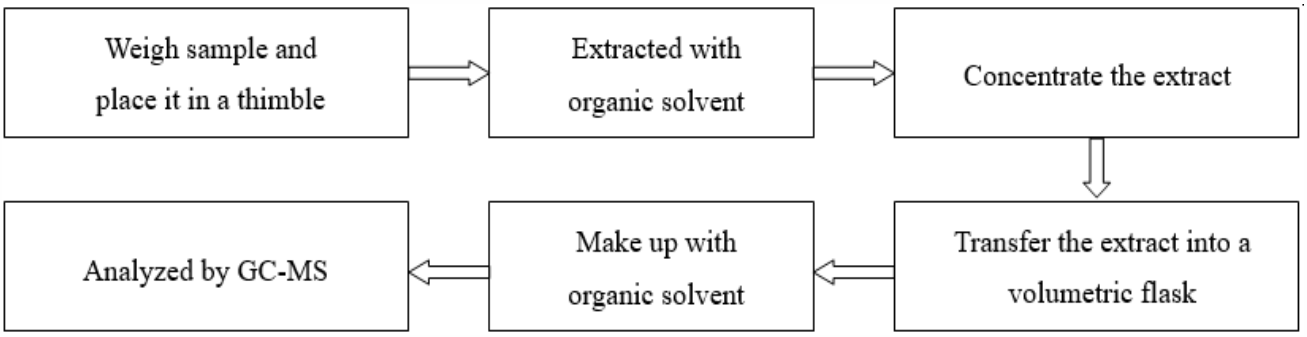
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



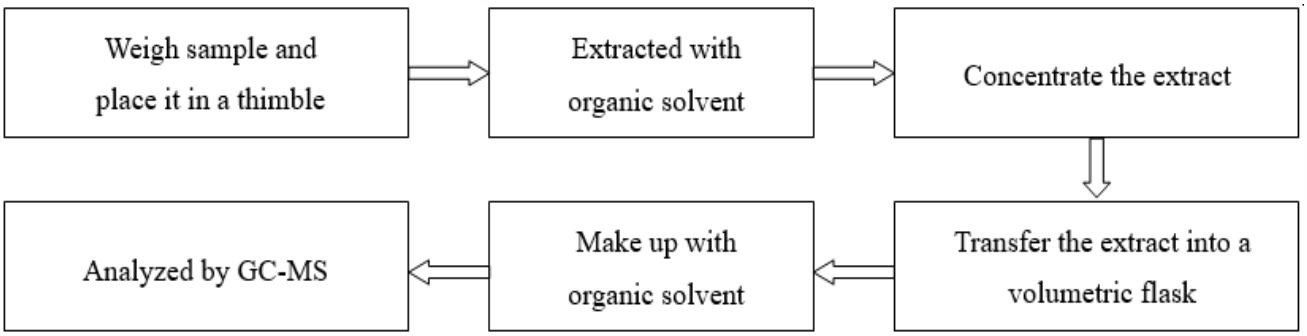
5. Phthalates (DBP, BBP, DEHP, DIBP)



6. Hexabromocyclododecane (HBCDD)

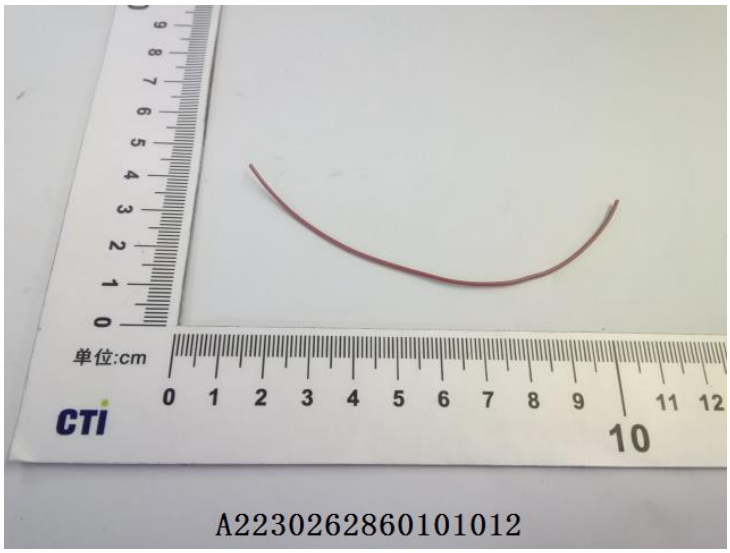


7. Phthalates



Test Report

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;
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*** End of report ***

Appendix

Client Reference Information

1007, 1061, 1095, 1571, 20276, 2468, 1015, 1617, 1672, 1185, 1533, 2464, 2547, 2517, 2854, 2835, 1430, 1431, 10272, 1032, 2651, 2661, 1569, 3443, 1028, 1685, 2103, 2661, 2920, 20080and FEIBIAO PVC LINE, CAR PVC LINE and rehearsal and line

Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2230262860101012.

Test Report

Report No. A2230262860101016

Company Name shown on Report	KAI TAT INDUSTRIES COMPANY
Address	BUILDING 1, NO.2 CHANGZHEN ROAD,CHANGZHEN COMMUNITY,YUTANG STREET,GUANGMING DISTRICT,SHENZHEN CITY

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name	UL1061
Color	Orange jacket
Material	PVC Electronic wire
Sample Received Date	Jun. 1, 2023
Testing Period	Jun. 1, 2023 to Jun. 17, 2023

Test Requested	As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD), Phthalates in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).

****

Conclusion

Tested Sample	According to standard/directive	Result
Submitted Sample	RoHS Directive 2011/65/EU with amendment (EU) 2015/863	PASS

****

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

Approved by: Hill Zheng

Hill Zheng

Technical Manager

Date: Jun. 17, 2023

No. R262627962

Centre Testing International Group Co.,Ltd.
CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

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

Test Report

Report No. A2230262860101016

Test Result(s)

Tested Item(s)	Result	MDL	Limit
	016		
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
	016		
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
	016		
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

Report No. A2230262860101016

Test Result(s)

Tested Item(s)	Result	MDL	Limit
	016		
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
	016	
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

Tested Item(s)	Result	MDL
	016	
Phthalates		
Di-2-propylheptyl phthalate (DPHpP) CAS#:53306-54-0*	N.D.	30 mg/kg

Sample/Part Description

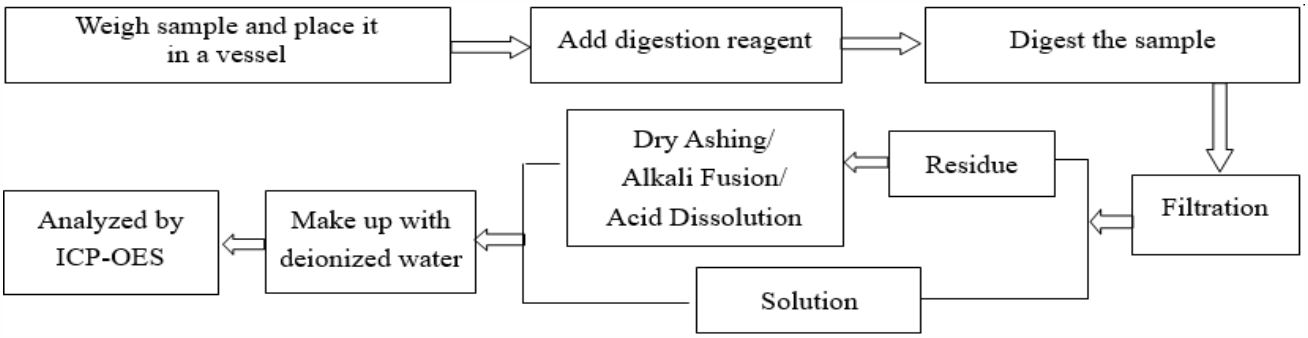
No.	CTI Sample ID	Description
1	016	Orange wire jacket

Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million
-1000 mg/kg = 0.1%

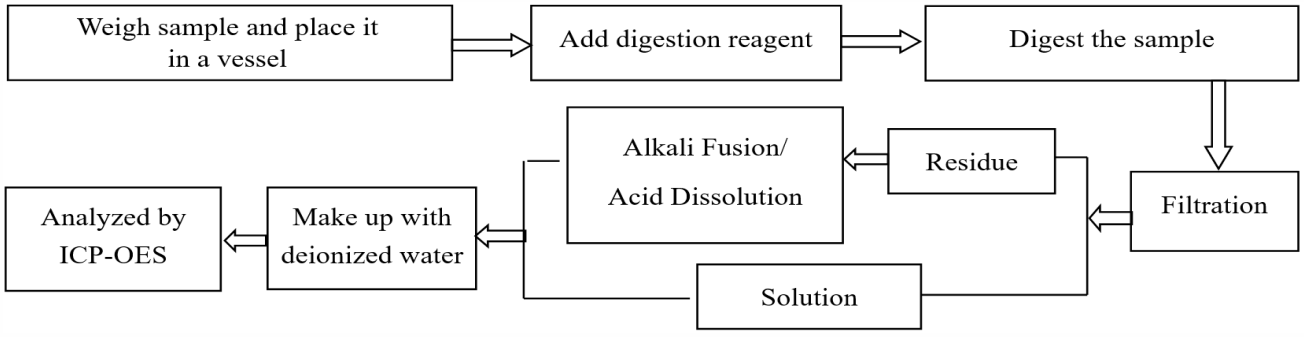
Note: ***Indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.**

Test Process

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

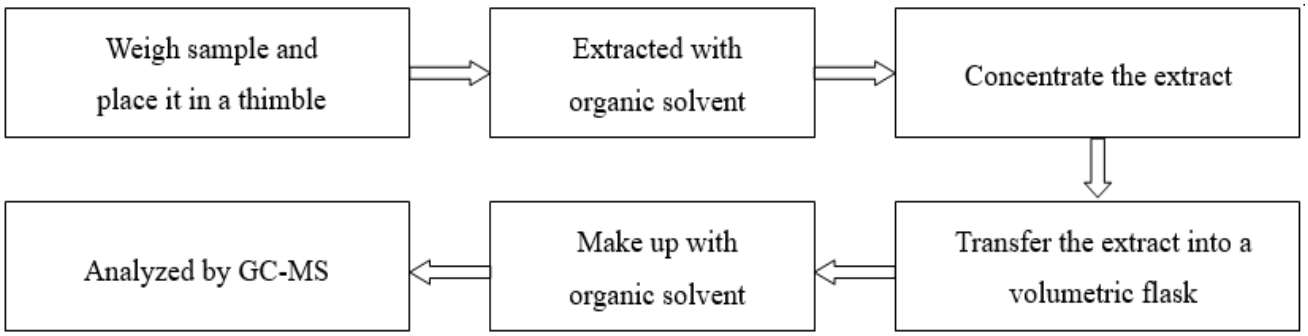


2. Mercury (Hg)

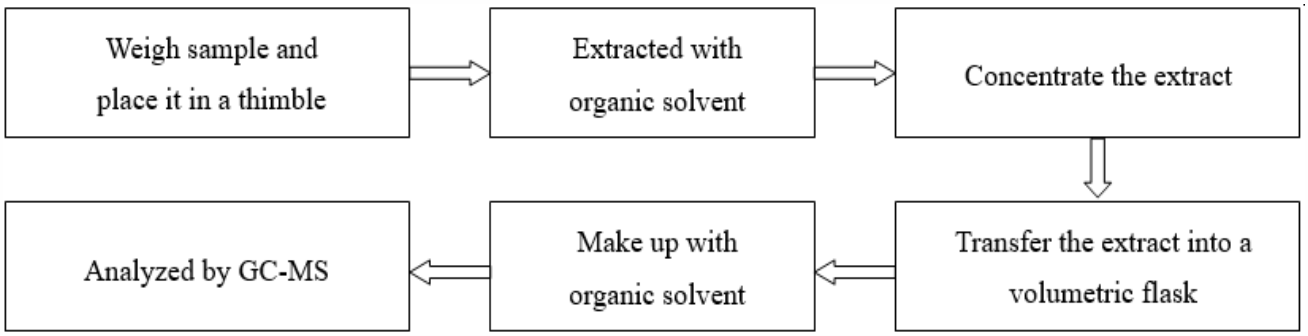


3. Hexavalent Chromium (Cr(VI))

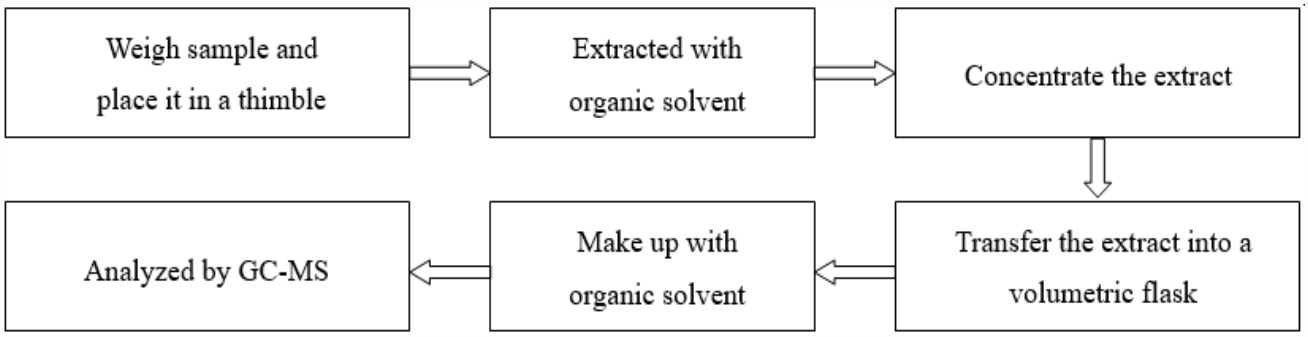
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



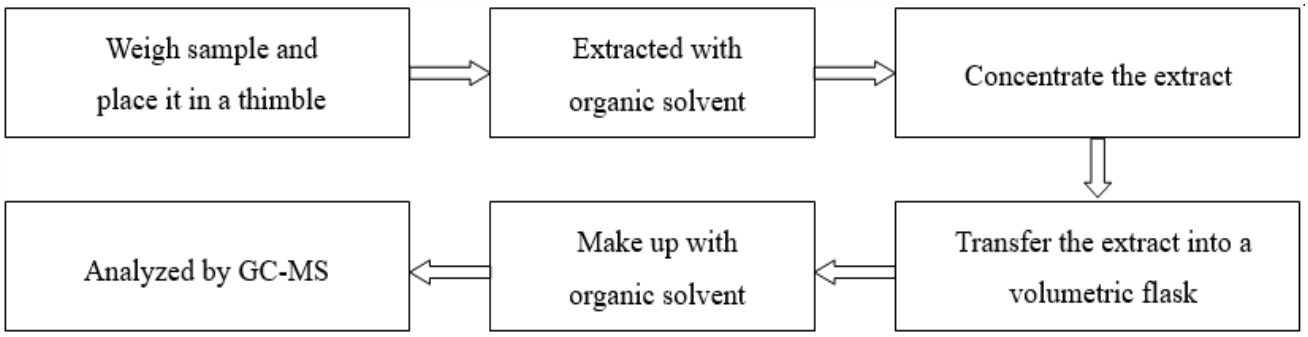
5. Phthalates (DBP, BBP, DEHP, DIBP)



6. Hexabromocyclododecane (HBCDD)



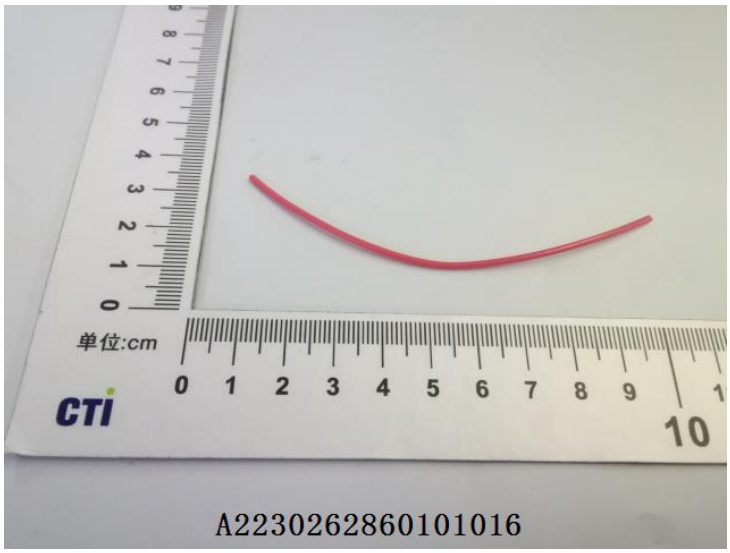
7. Phthalates



Test Report

Report No. A2230262860101016

Photo(s) of the sample(s)



Statement:

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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;
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*** End of report ***

Appendix

Client Reference Information

1007, 1061, 1095, 1571, 20276, 2468, 1015, 1617, 1672, 1185, 1533, 2464, 2547, 2517, 2854, 2835, 1430, 1431, 10272, 1032, 2651, 2661, 1569, 3443, 1028, 1685, 2103, 2661, 2920, 20080and FEIBIAO PVC LINE, CAR PVC LINE and rehearsal and line

Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2230262860101016.

Test Report

Report No. A2230262860101017

Company Name shown on Report KAI TAT INDUSTRIES COMPANY

Address BUILDING 1, NO.2 CHANGZHEN ROAD,CHANGZHEN COMMUNITY,YUTANG STREET,GUANGMING DISTRICT,SHENZHEN CITY

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name	UL1061
Color	Red jacket
Material	PVC Electronic wire
Sample Received Date	Jun. 1, 2023
Testing Period	Jun. 1, 2023 to Jun. 17, 2023

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD), Phthalates in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

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Conclusion

Tested Sample	According to standard/directive	Result
Submitted Sample	RoHS Directive 2011/65/EU with amendment (EU) 2015/863	PASS

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PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

Approved by Hill Zheng

Hill Zheng
Technical Manager

Date Jun. 17, 2023

No. R262627962

Centre Testing International Group Co.,Ltd.
CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

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

Test Report

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Test Result(s)

Tested Item(s)	Result	MDL	Limit
	017		
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
	017		
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
	017		
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

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Test Result(s)

Tested Item(s)	Result	MDL	Limit
	017		
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
	017	
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

Tested Item(s)	Result	MDL
	017	
Phthalates		
Di-2-propylheptyl phthalate (DPHpP) CAS#:53306-54-0*	N.D.	30 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	017	Red wire jacket

Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million
-1000 mg/kg = 0.1%

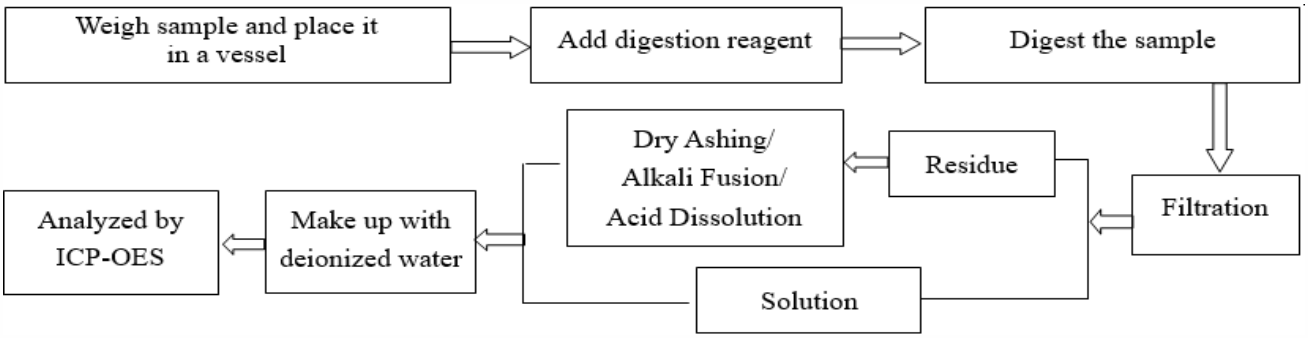
Note: ***Indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.**

Test Report

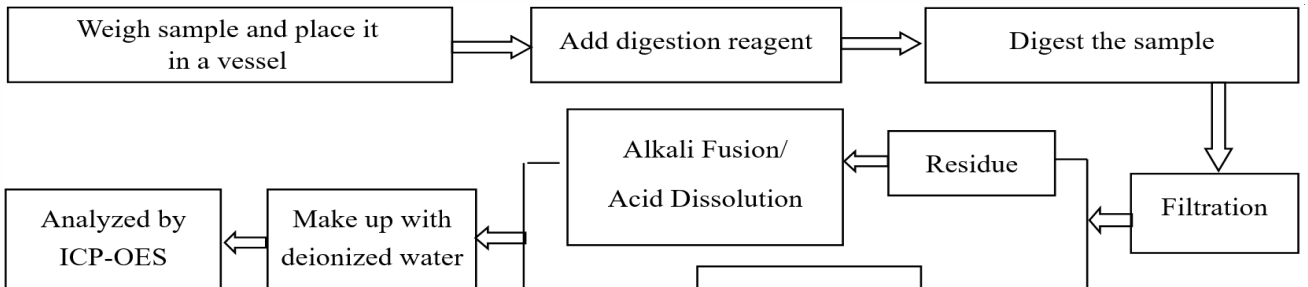
Report No. A2230262860101017

Test Process

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

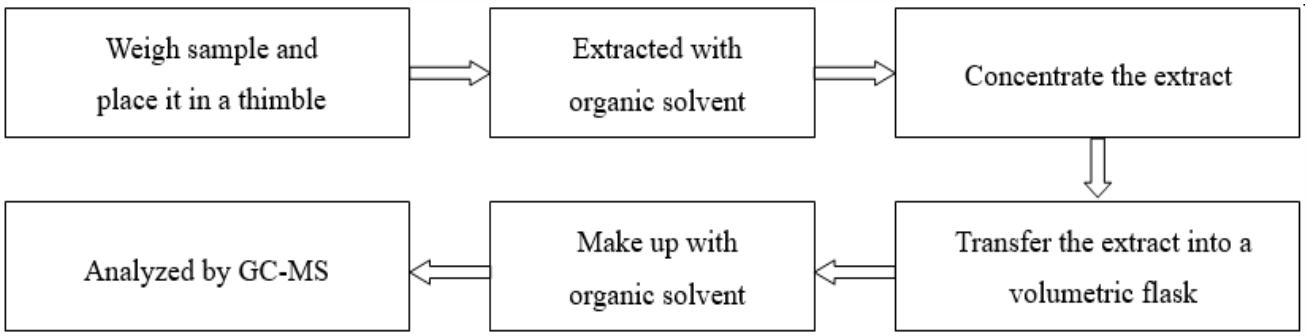


2. Mercury (Hg)

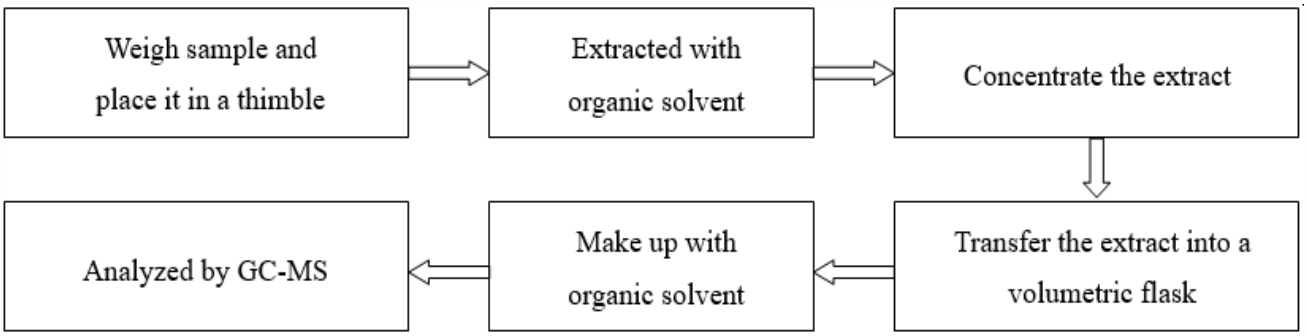


3. Hexavalent Chromium (Cr(VI))

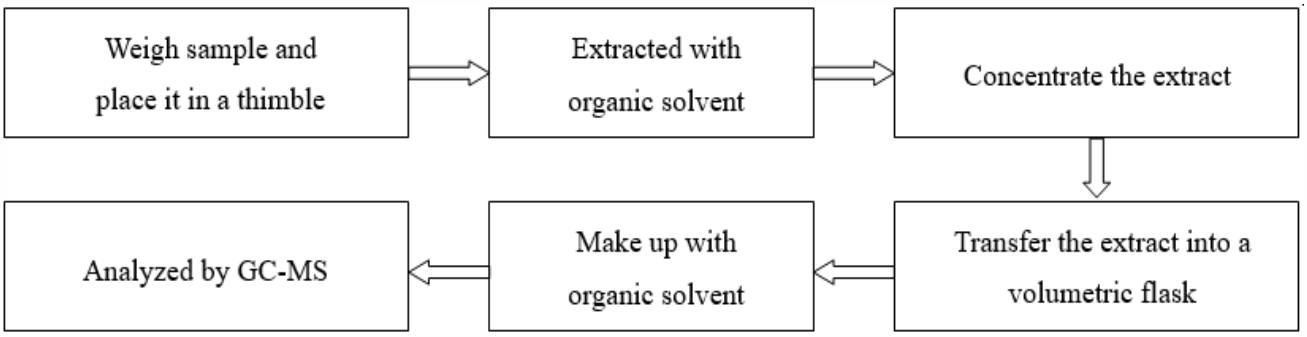
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



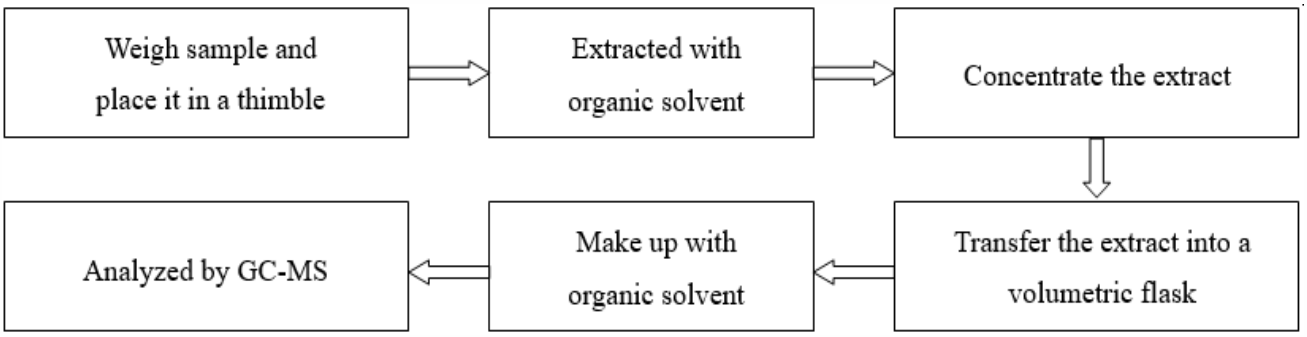
5. Phthalates (DBP, BBP, DEHP, DIBP)



6. Hexabromocyclododecane (HBCDD)



7. Phthalates



Test Report

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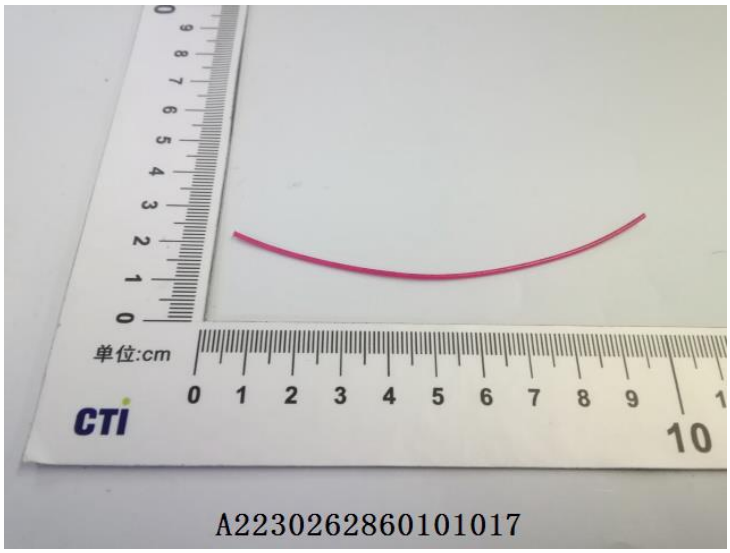
Photo(s) of the sample(s)



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. Without written approval of CTI, this report can't be reproduced except in full;
5. 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 ***

Appendix

Client Reference Information

1007, 1061, 1095, 1571, 20276, 2468, 1015, 1617, 1672, 1185, 1533, 2464, 2547, 2517, 2854, 2835, 1430, 1431, 10272, 1032, 2651, 2661, 1569, 3443, 1028, 1685, 2103, 2661, 2920, 20080and FEIBIAO PVC LINE, CAR PVC LINE and rehearsal and line

Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2230262860101017.