

Test Report

No.: EKR23700155

Date: 25-Jul-2023

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TANAKA DENSHI KOGYO K.K.
TANAKA ELECTRONICS TAIWAN CO.,LTD
2303-15 YOSHIDA , YOSHINO GARI-CHO , KANZAKI-GUN , SAGA 842-0031 JAPAN
1TH FLOOR FINAL TEST BUILDING NO.550.SEC 1. ZHONGHUA RD. ZHONGLI DIST. TAOYUAN CITY 32016,TAIWAN

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By : TANAKA DENSHI KOGYO K.K.
Sample Name : Pd COATING Cu WIRE
Style/Item No. : CLR-1A TYPE
Color : SILVER

Sample Receiving Date : 04-Jul-2023
Testing Period : 04-Jul-2023 to 25-Jul-2023

Test Requested : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).
(2) Please refer to next pages for the other item(s).

Test Results : Please refer to following pages.

Conclusion : (1) Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Ray Chang

Ray Chang, Ph.D./Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.

Chemical Laboratory-Kaohsiung



PIN CODE: FCB76543

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1TH FLOOR FINAL TEST BUILDING NO.550.SEC 1. ZHONGHUA RD. ZHONGLI DIST. TAOYUAN CITY 32016,TAIWAN

Test Part Description

No.1 : Pd COATING Cu WIRE

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit	
				No.1		
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	100	
Lead (Pb)		mg/kg	2	n.d.	1000	
Mercury (Hg)		mg/kg	2	n.d.	1000	
Hexavalent Chromium Cr(VI) (#2)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	µg/cm ²	0.1	n.d.	-	
Monobromobiphenyl	With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.	mg/kg	5	n.d.	-	
Dibromobiphenyl		mg/kg	5	n.d.	-	
Tribromobiphenyl		mg/kg	5	n.d.	-	
Tetrabromobiphenyl		mg/kg	5	n.d.	-	
Pentabromobiphenyl		mg/kg	5	n.d.	-	
Hexabromobiphenyl		mg/kg	5	n.d.	-	
Heptabromobiphenyl		mg/kg	5	n.d.	-	
Octabromobiphenyl		mg/kg	5	n.d.	-	
Nonabromobiphenyl		mg/kg	5	n.d.	-	
Decabromobiphenyl		mg/kg	5	n.d.	-	
Sum of PBBs		With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	-	n.d.	1000
Monobromodiphenyl ether		mg/kg	5	n.d.	-	
Dibromodiphenyl ether		mg/kg	5	n.d.	-	
Tribromodiphenyl ether		mg/kg	5	n.d.	-	
Tetrabromodiphenyl ether		mg/kg	5	n.d.	-	
Pentabromodiphenyl ether		mg/kg	5	n.d.	-	
Hexabromodiphenyl ether		mg/kg	5	n.d.	-	
Heptabromodiphenyl ether		mg/kg	5	n.d.	-	
Octabromodiphenyl ether		mg/kg	5	n.d.	-	
Nonabromodiphenyl ether		mg/kg	5	n.d.	-	
Decabromodiphenyl ether	mg/kg	5	n.d.	-		
Sum of PBDEs	mg/kg	-	n.d.	1000		

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Dibutyl phthalate (DBP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Butyl benzyl phthalate (BBP)		mg/kg	50	n.d.	1000
Diisobutyl phthalate (DIBP)		mg/kg	50	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP)		mg/kg	50	n.d.	1000
Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	-
Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	n.d.	-
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		mg/kg	50	n.d.	-
Di-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3)		mg/kg	50	n.d.	-
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Polychlorinated biphenyls (PCBs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	0.5	n.d.	-
Polychlorinated naphthalene (PCNs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Polychlorinated terphenyls (PCTs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	0.5	n.d.	-
Short Chain Chlorinated Paraffins(C10-C13) (SCCP) (CAS No.: 85535-84-8)	With reference to ISO 18219-1: 2021, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Iodine (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Tributyl tin (TBT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.	-
Triphenyl tin (TPT)		mg/kg	0.03	n.d.	-
Dibutyl tin (DBT)		mg/kg	0.03	n.d.	-
Diocetyl tin (DOT)		mg/kg	0.03	n.d.	-
Bis(tributyltin) oxide (TBTO) (CAS No.: 56-35-9)	Calculated from the result of Tributyl Tin (TBT).	mg/kg	0.03▲	n.d.	-
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-
Perfluorooctanoic acid (PFOA) and it's salt (CAS No.: 335-67-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to US EPA 3550C: 2007, analysis was performed by LC/MS/MS.	mg/kg	10	n.d.	-
PFOA and its salts (CAS No.: 335-67-1 and its salts)	With reference to US EPA 3550C: 2007, analysis was performed by LC/MS/MS.	mg/kg	10	n.d.	-
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321: 2008, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.	**	-	Negative	-

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1TH FLOOR FINAL TEST BUILDING NO.550.SEC 1. ZHONGHUA RD. ZHONGLI DIST. TAOYUAN CITY 32016,TAIWAN

Note :

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected (Less than MDL)
4. "-" = Not Regulated
5. **= Qualitative analysis (No Unit)
6. Negative = Undetectable ; Positive = Detectable
7. PFOS and its salts including :
CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
8. PFOA and its salts including :
CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.
9. (#2) =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.
10. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$

AX	A	F
Bis(tributyltin)oxide (TBTO)	Tributyl Tin (TBT)	1.0276

Parameter Conversion Table : https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others

11. 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. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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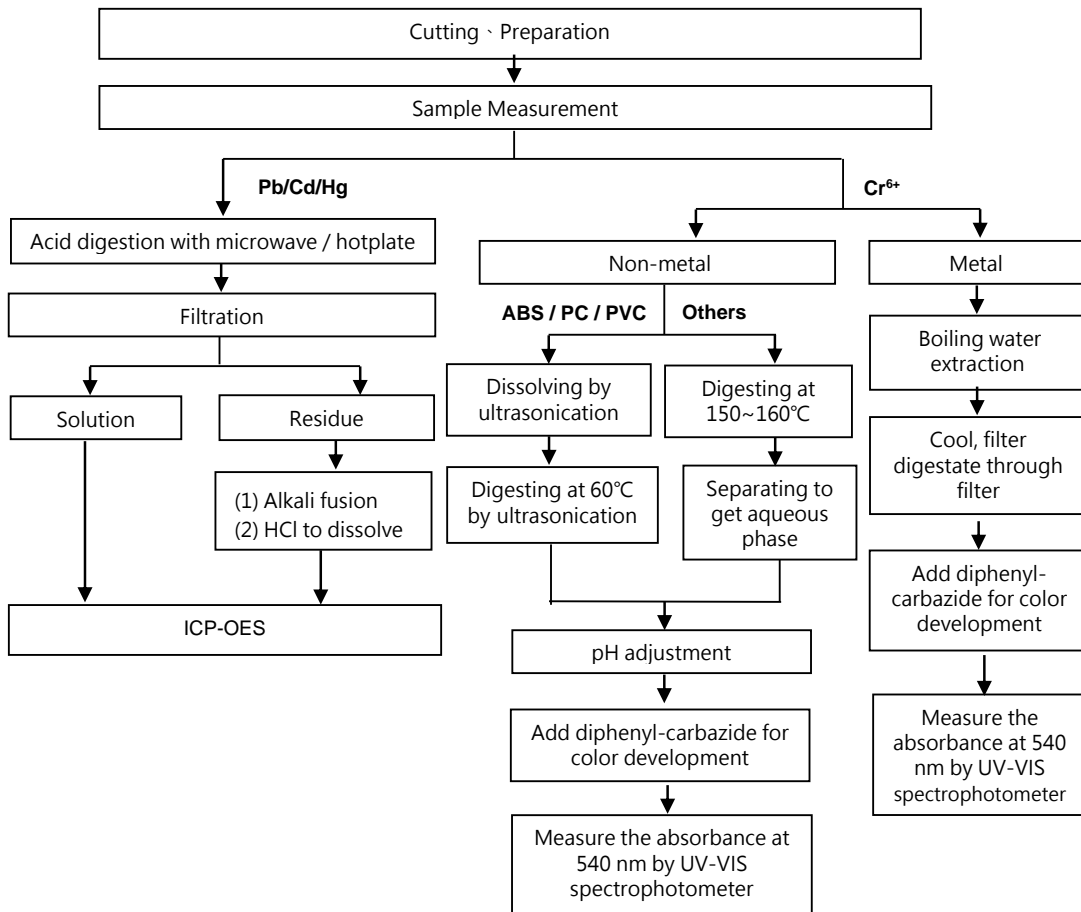
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1TH FLOOR FINAL TEST BUILDING NO.550.SEC 1. ZHONGHUA RD. ZHONGLI DIST. TAOYUAN CITY 32016,TAIWAN

Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)



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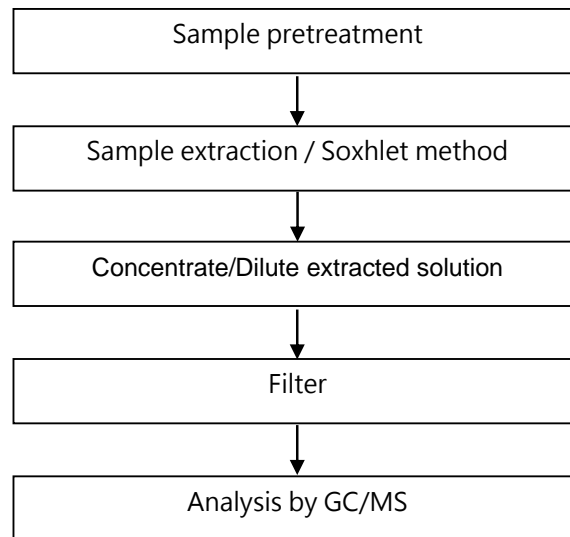
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PBB/PBDE analytical FLOW CHART



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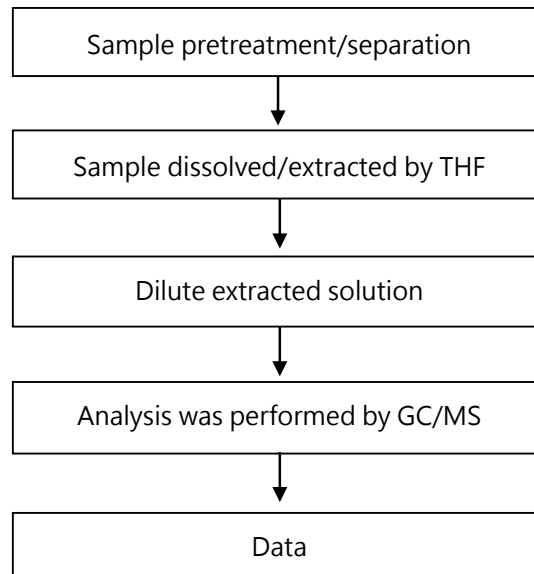
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Analytical flow chart of phthalate content

【Test method: IEC 62321-8】



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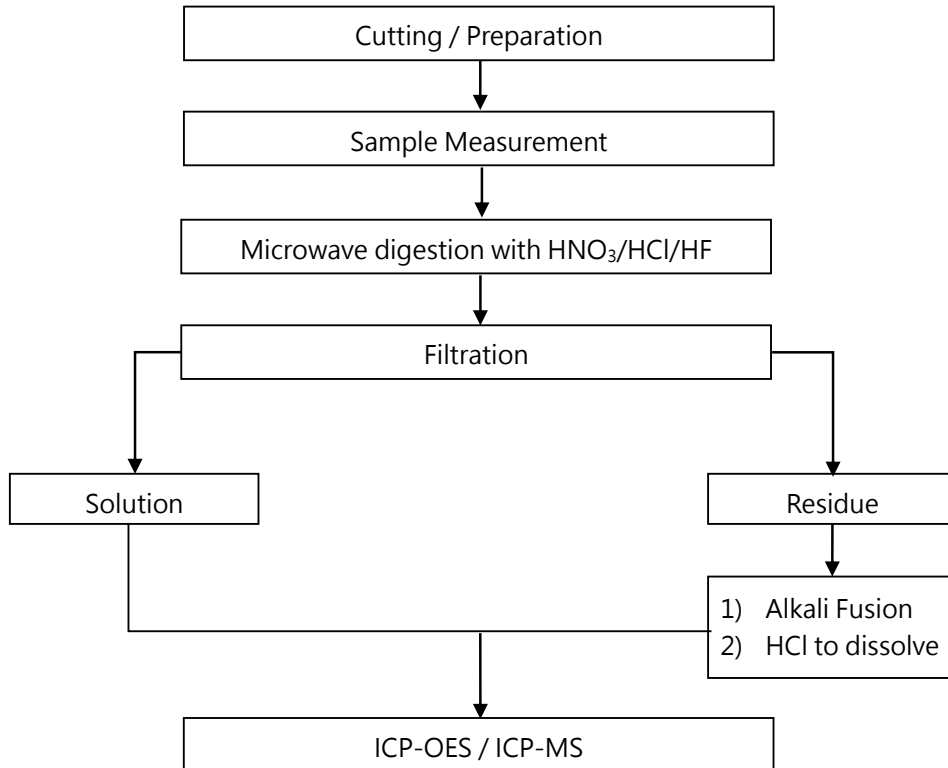
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Analytical flow chart of Elements (Heavy metal included)

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

【Reference method : US EPA 3051 、 US EPA 3052】



* US EPA 3051 method does not add HF.

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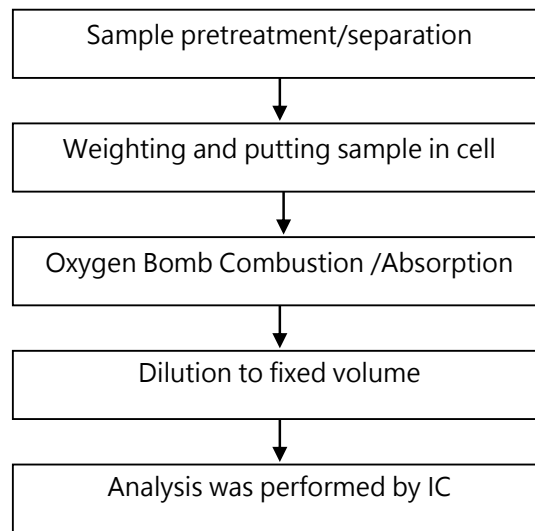
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Analytical flow chart of Halogen



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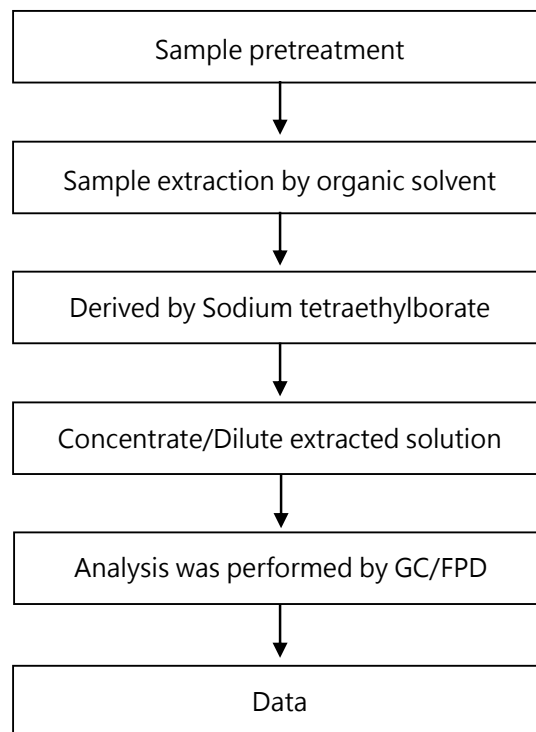
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Analytical flow chart - Organic-Tin



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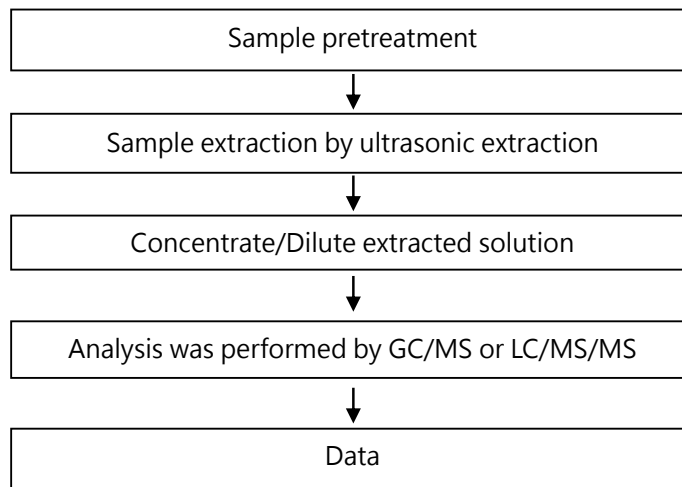
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1TH FLOOR FINAL TEST BUILDING NO.550.SEC 1. ZHONGHUA RD. ZHONGLI DIST. TAOYUAN CITY 32016,TAIWAN

Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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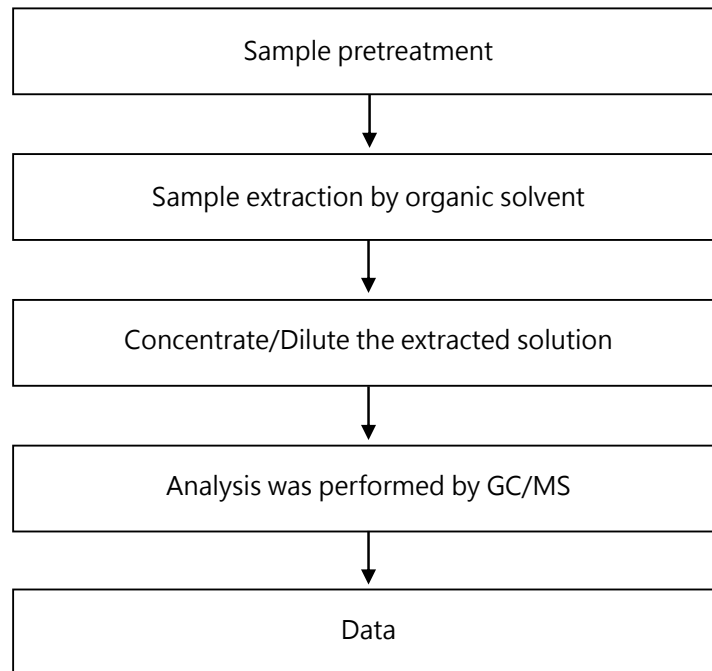
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Analytical flow chart

* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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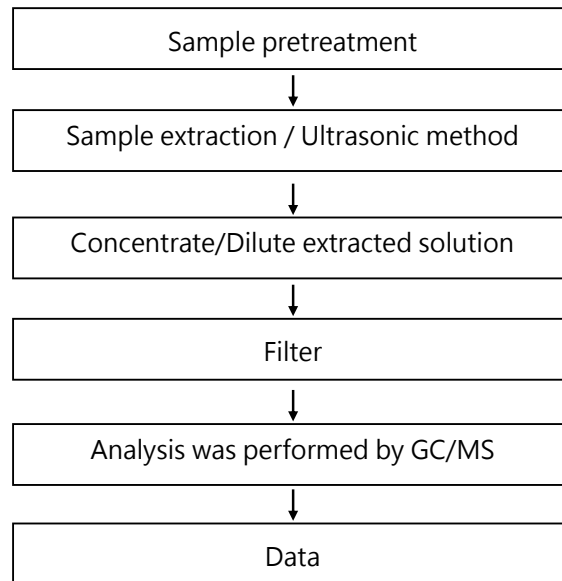
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Analytical flow chart - HBCDD



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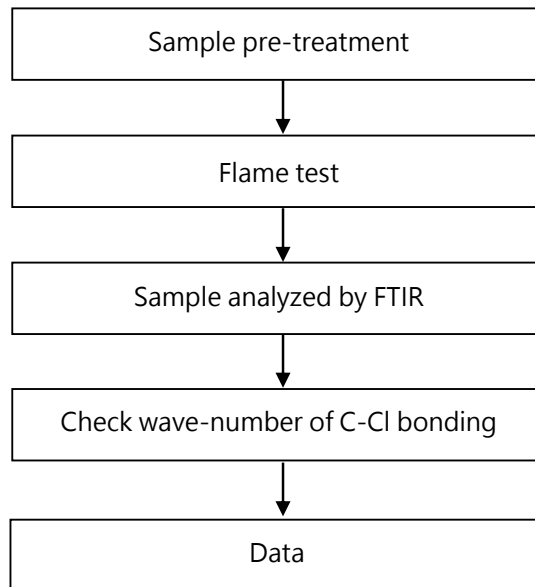
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Analysis flow chart - PVC



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* The tested sample / part is marked by an arrow if it's shown on the photo. *

EKR23700155



** End of Report **

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