

Test Report

No. : CE/2019/55670A

Date : 2019/06/04

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FURUKAWA ELECTRIC CO., LTD.

5-1-9,HIGASHI-YAWATA, HIRATSUKA 254-0016 JAPAN

The following samples was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By : FURUKAWA ELECTRIC CO., LTD.
 Sample Description : WHITE DIE ATTACH FILM
 Style/Item No. : NEX-130E4X
 Sample Receiving Date : 2019/05/28
 Testing Period : 2019/05/28 to 2019/06/04

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 Result(s)

: Please refer to following pages.

* This report is combined with reports of CE/2019/55670, CE/2019/55671 and CE/2019/55672 *

Troy Chang
 Troy Chang / Manager - Tech
 Signed for and behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei



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Test Result(s)

PART NAME No.1 : BEIGE FILM (EXCLUDING THE RELEASE FILM) (CE/2019/55670)

PART NAME No.2 : WHITE FILM (EXCLUDING THE RELEASE FILM) (CE/2019/55671)

PART NAME No.3 : BEIGE FILM (EXCLUDING THE RELEASE FILM) (CE/2019/55672)

Test Item(s)	Unit	Method	MDL	Result		
				No.1	No.2	No.3
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 (2013) and performed by ICP-AES.	2	n.d.	---	---
Lead (Pb)	mg/kg		2	n.d.	---	---
Mercury (Hg)	mg/kg		2	n.d.	---	---
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.	8	n.d.	---	---
Sum of PBBs	mg/kg	With reference to IEC 62321-6 (2015) and performed by GC/MS.	-	n.d.	---	---
Monobromobiphenyl	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 PBDEs	mg/kg		-	n.d.	---	---
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.	---	---

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Test Item(s)	Unit	Method	MDL	Result		
				No.1	No.2	No.3
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.	---	---
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n.d.	---	---
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n.d.	---	---
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	mg/kg		50	n.d.	---	---
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	mg/kg		50	n.d.	---	---
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	n.d.	---	---
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg		50	n.d.	---	---
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	mg/kg		50	n.d.	---	---
DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	mg/kg		50	n.d.	---	---
DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)	mg/kg		50	n.d.	---	---
DIHP (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)	mg/kg		50	n.d.	---	---
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n.d.	---	---

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Test Item(s)	Unit	Method	MDL	Result		
				No.1	No.2	No.3
Tributyl Tin (TBT)	mg/kg	With reference to ISO 17353 (2004). Analysis was performed by GC/FPD.	0.03	---	n.d.	---
Triphenyl Tin (TphT)	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)	mg/kg	With reference to ISO 17353 (2004). Analysis was performed by GC/FPD. Calculated from the result of Tributyl Tin (TBT).	0.03 (▲)	---	n.d.	---
Halogen						
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582 (2016). Analysis was performed by IC.	50	---	---	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		50	---	---	135
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	---	---	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	---	---	n.d.
Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	With reference to CEN/TS 15968 (2010). Analysis was performed by LC/MS.	0.01	---	---	n.d.
PFOA (CAS No.: 335-67-1)	mg/kg		0.01	---	---	n.d.
Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.	0.5	---	---	n.d.
Polychlorinated Naphthalene (PCNs)	mg/kg		5	---	---	n.d.
Polychlorinated Terphenyls (PCTs)	mg/kg		0.5	---	---	n.d.
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	mg/kg		100	---	---	n.d.
PVC	**	Analysis was performed by FTIR and FLAME Test.	-	---	---	Negative
Antimony (Sb)	mg/kg	With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	---	---	n.d.
Beryllium (Be)	mg/kg		2	---	---	n.d.
Phosphorus (P)	mg/kg		2	---	---	n.d.

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Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected = less than MDL
4. " - " = Not Regulated
5. "---" = Not Conducted
6. ** = Qualitative analysis (No Unit)
7. Negative = Undetectable / Positive = Detectable
8. (▲) : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$

AX	A	F
Bis(tributyltin)oxide (TBTO)	Tributyl Tin (TBT)	1.024

PFOS Reference Information : POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².

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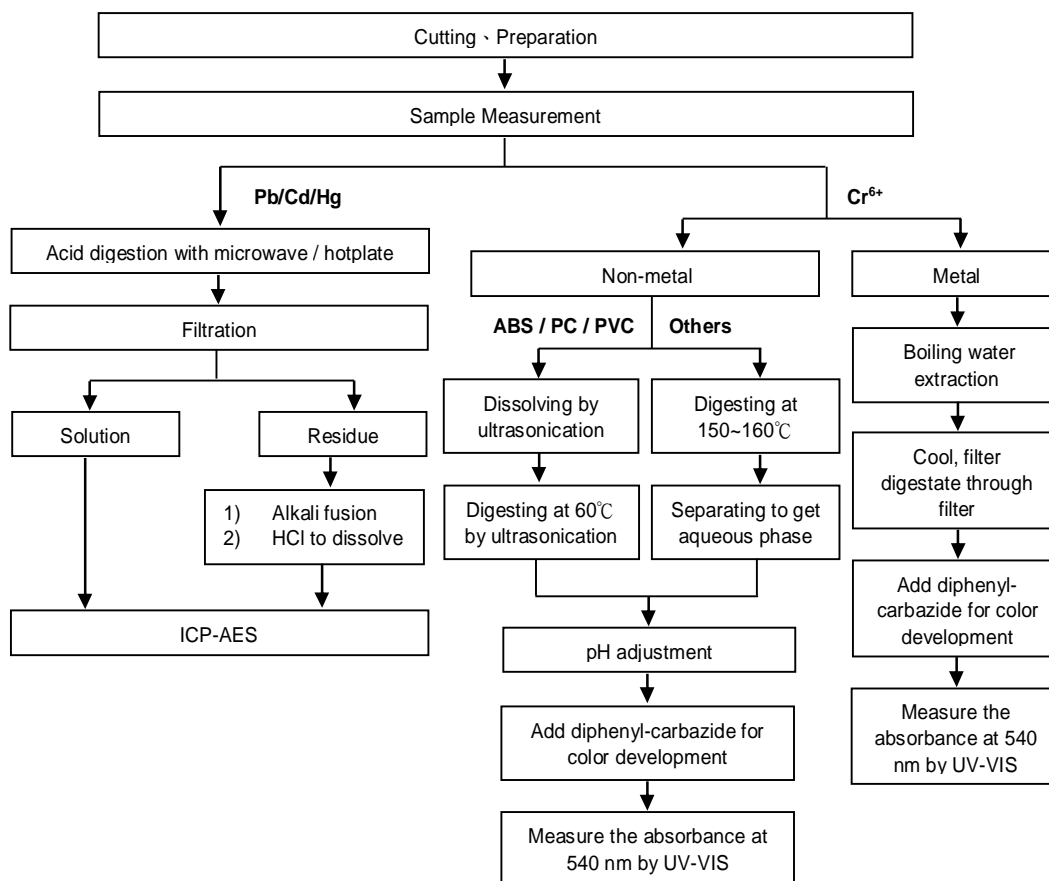
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5-1-9,HIGASHI-YAWATA, HIRATSUKA 254-0016 JAPAN

Analytical flow chart of Heavy Metal

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

- Technician : Rita Chen
- Supervisor: Troy Chang



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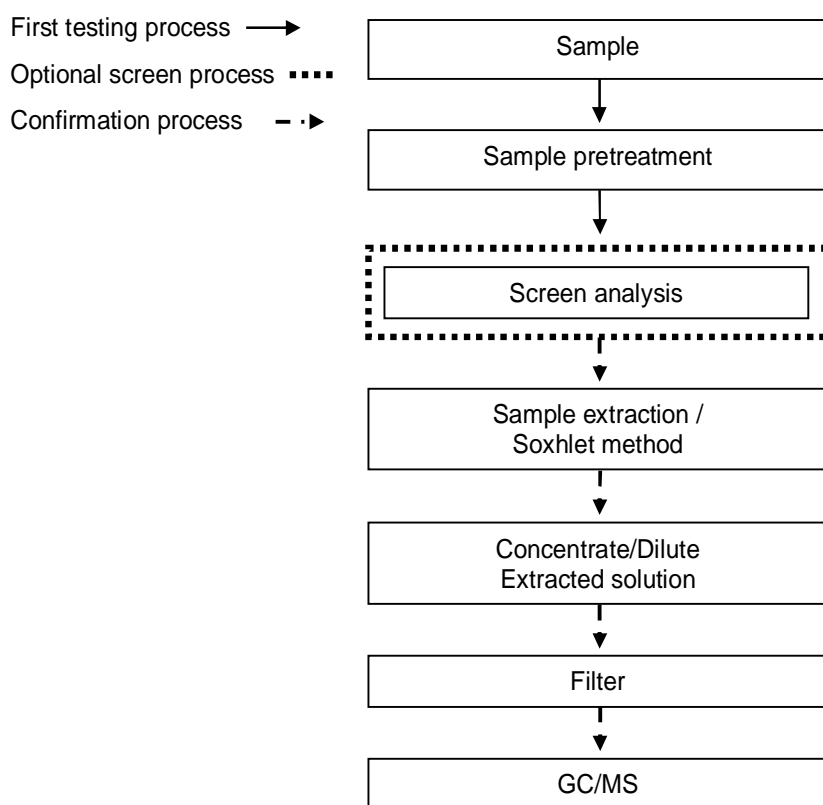
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Analytical flow chart – PBB / PBDE

- Technician : Yaling Tu
- Supervisor: Troy Chang



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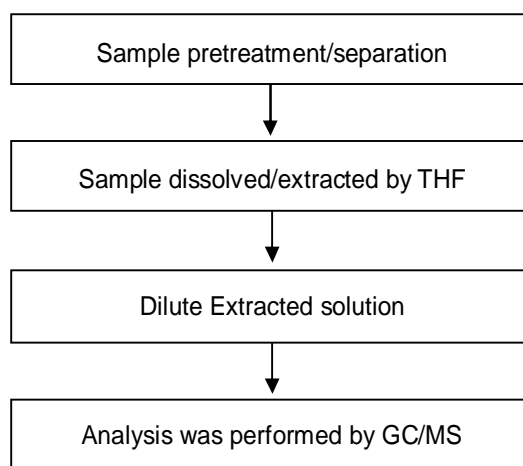
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5-1-9,HIGASHI-YAWATA, HIRATSUKA 254-0016 JAPAN

Analytical flow chart - Phthalate

- Technician: Yaling Tu
- Supervisor: Troy Chang

【Test method: IEC 62321-8】



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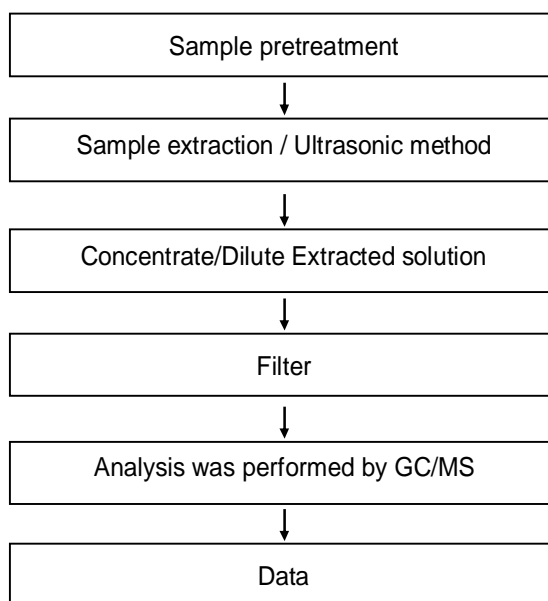
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FURUKAWA ELECTRIC CO., LTD.

5-1-9,HIGASHI-YAWATA, HIRATSUKA 254-0016 JAPAN

Analytical flow chart - HBCDD

- Technician: Yaling Tu
- Supervisor: Troy Chang



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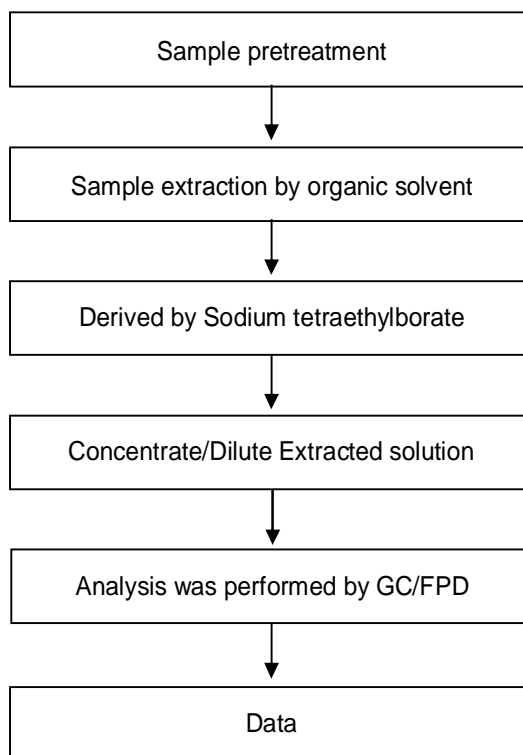
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FURUKAWA ELECTRIC CO., LTD.

5-1-9,HIGASHI-YAWATA, HIRATSUKA 254-0016 JAPAN

Analytical flow chart - Organic-Tin

- Technician: Yaling Tu
- Supervisor: Troy Chang



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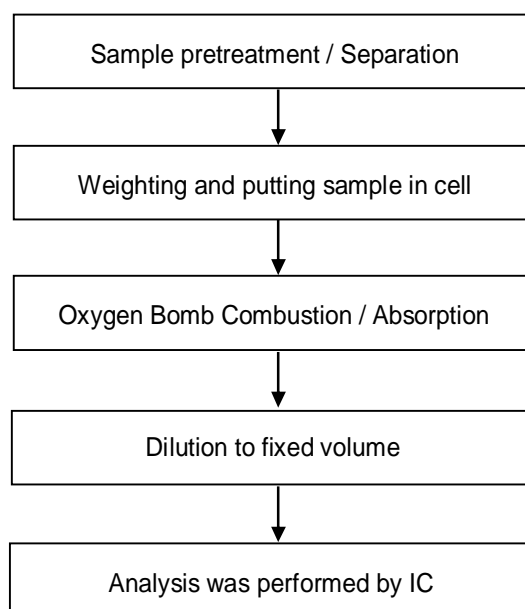
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Analytical flow chart - Halogen

- Technician: Rita Chen
- Supervisor: Troy Chang



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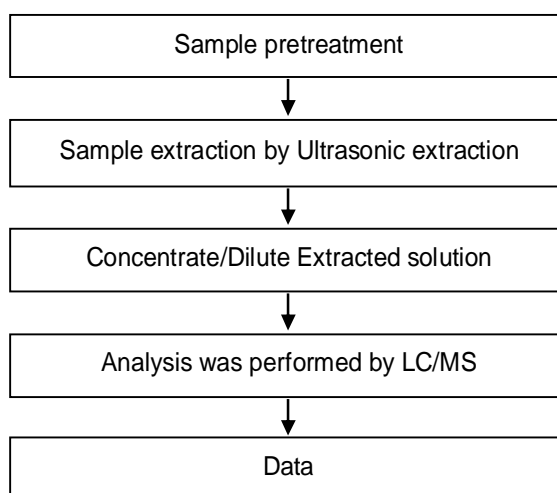
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Analytical flow chart - PFOA/PFOS

- Technician: Yaling Tu
- Supervisor: Troy Chang



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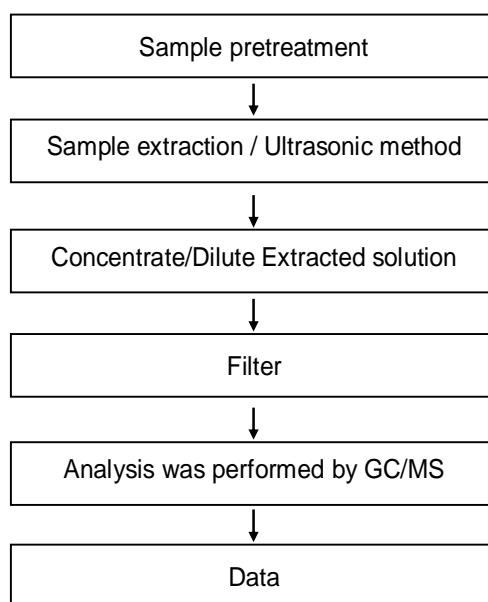
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Analytical flow chart - PCBs

- Technician: Yaling Tu
- Supervisor: Troy Chang



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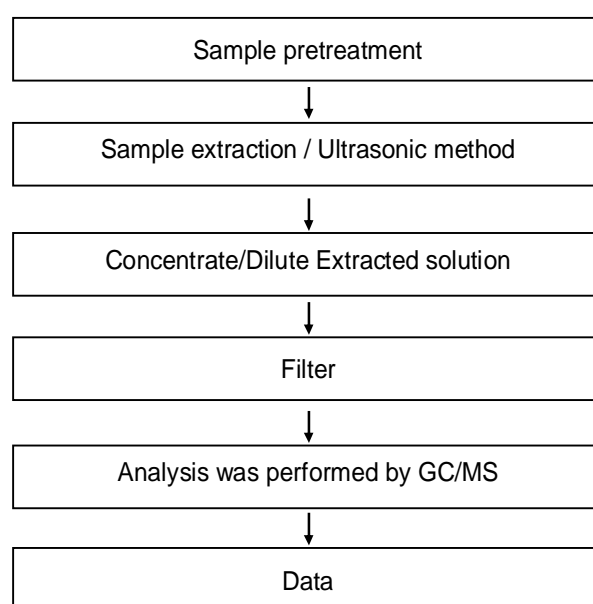
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Analytical flow chart - PCNs

- Technician: Yaling Tu
- Supervisor: Troy Chang



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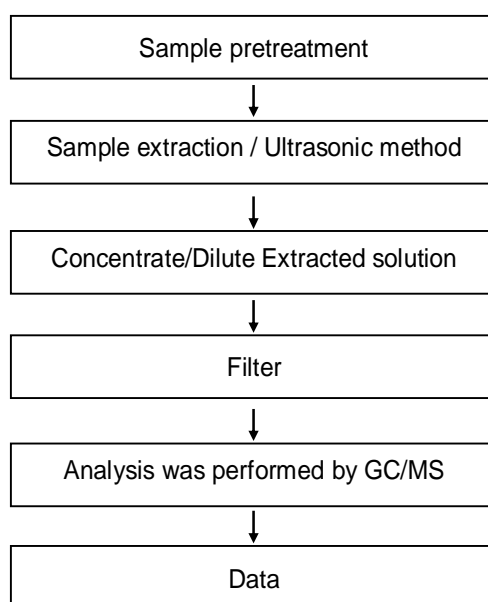
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Analytical flow chart - PCTs

- Technician: Yaling Tu
- Supervisor: Troy Chang



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Test Report

No. : CE/2019/55670A

Date : 2019/06/04

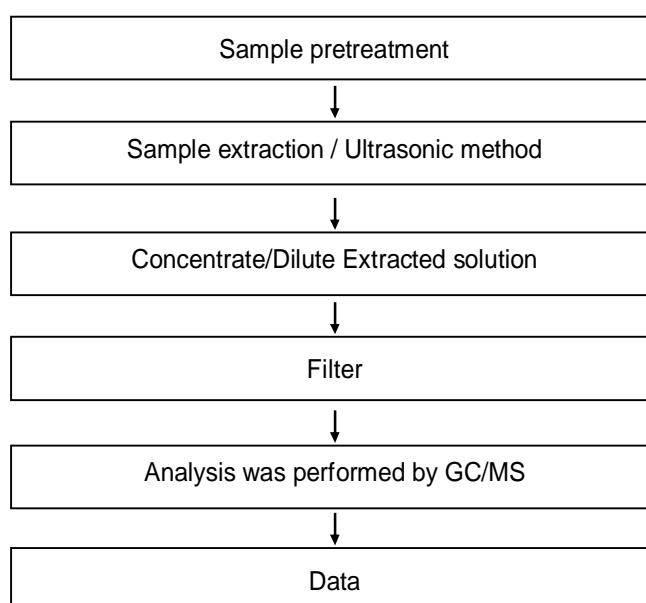
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FURUKAWA ELECTRIC CO., LTD.

5-1-9,HIGASHI-YAWATA, HIRATSUKA 254-0016 JAPAN

Analytical flow chart - Chlorinated Paraffins

- Technician: Yaling Tu
- Supervisor: Troy Chang



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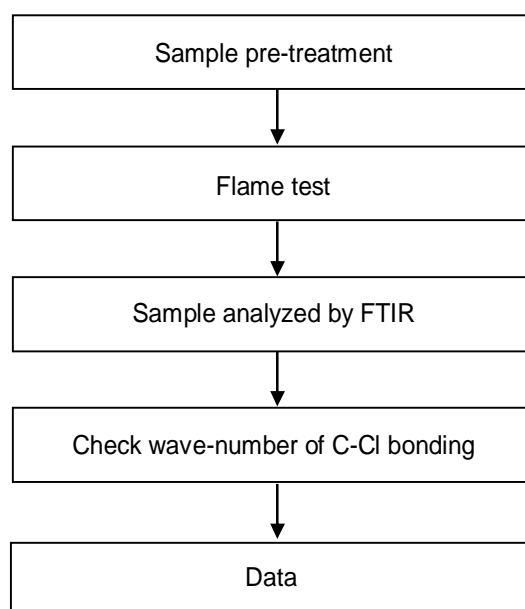
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FURUKAWA ELECTRIC CO., LTD.

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Analysis flow chart - PVC

- Technician: Yaling Tu
- Supervisor: Troy Chang



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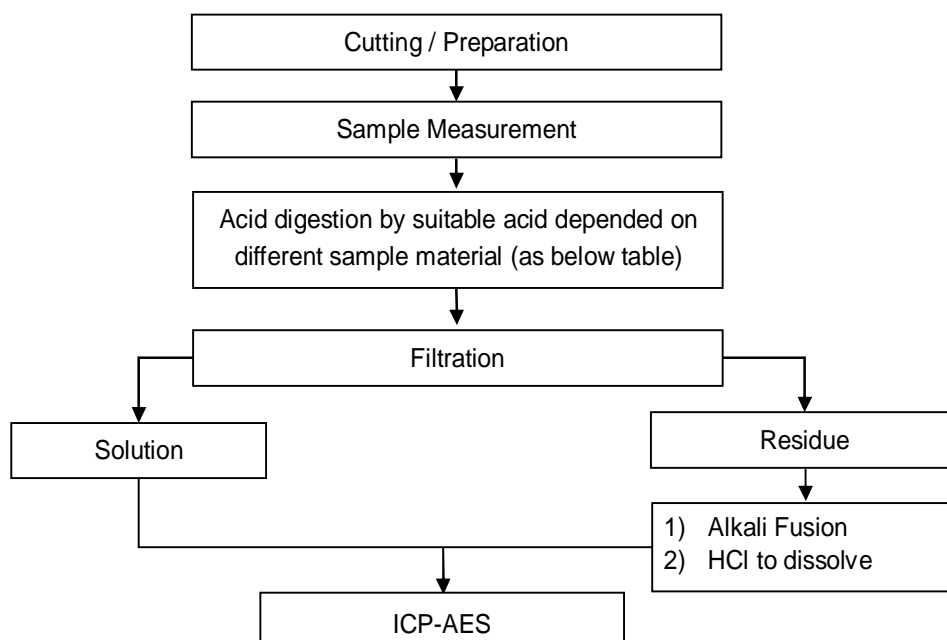
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These samples were dissolved totally by pre-conditioning method according to below flow chart.

- Technician: Rita Chen
- Supervisor: Troy Chang

Flow Chart of digestion for the elements analysis performed by ICP-AES



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Added appropriate reagent to total digestion

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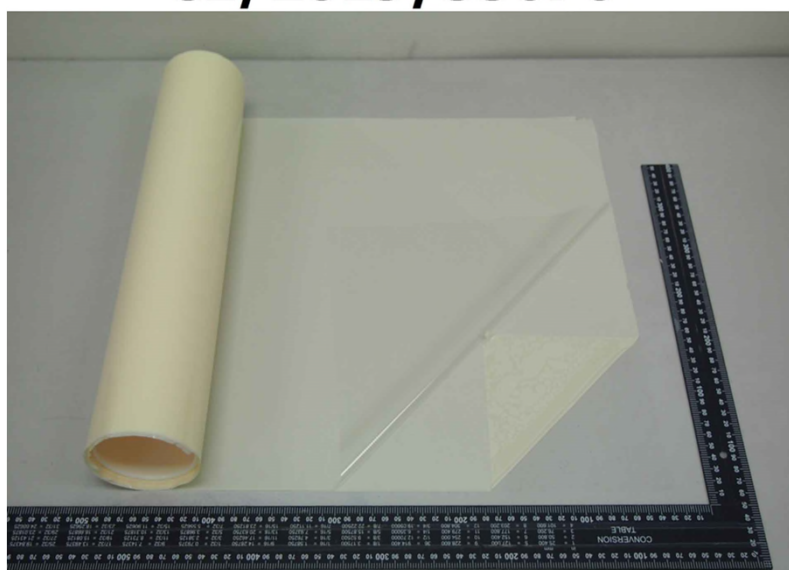
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

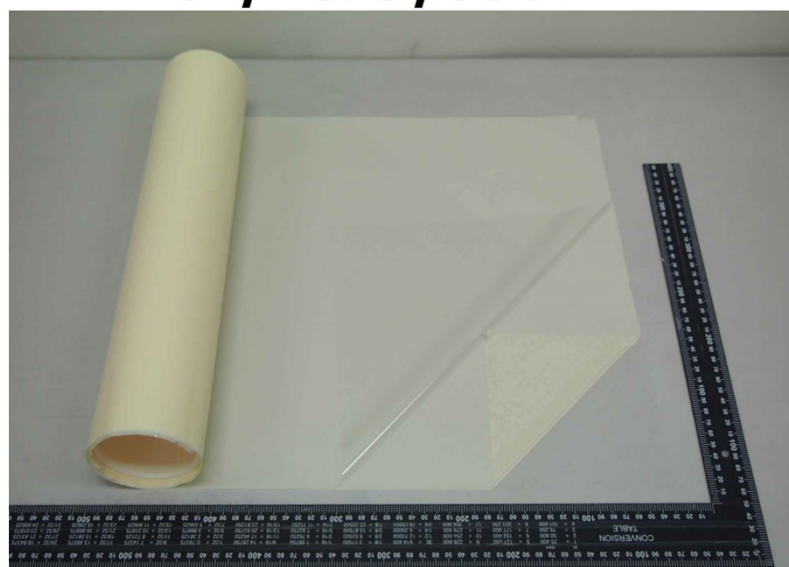
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No.2

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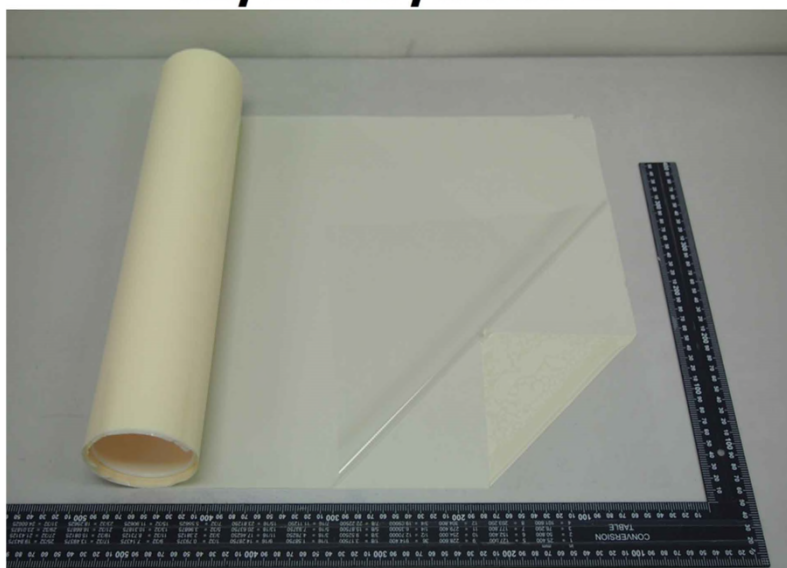
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No.3

CE/2019/55672



** End of Report **

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