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SHINKO ELECTRIC INDUSTRIES CO., LTD. 80 OSHIMADA-MACHI, NAGANO-SHI, 381-2287 JAPAN

The following sampl Sample Submitted By Sample Name	/	:	ere submitted and identified by the applicant as: SHINKO ELECTRIC INDUSTRIES CO., LTD. Au PLATING
Sample Receiving Da Testing Period		:	27-Oct-2022 27-Oct-2022 to 03-Nov-2022
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). 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.





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### **Test Part Description**

No.1 : GOLDEN COLORED METAL

#### Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	100
Lead (Pb) (CAS No.: 7439-92-1)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Hexavalent Chromium Cr(VI) (CAS No.: 18540-29-9) (#2)	With reference to IEC 62321-7-1: 2015, analysis was performed by UV- VIS.	µg/cm²	0.1	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	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	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		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	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	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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85-68-7)analysis was performed by GC/MS.Dibutyl phthalate (DBP) (CAS No.: 84- 74-2)With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.mg/kg50n.d.1Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.mg/kg50n.d.1Disobutyl phthalate (DIBP) (CAS No.: 84-69-5)With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.mg/kg50n.d.1Disobutyl phthalate (DIDP) (CAS No.: Diisodecyl phthalate (DIDP) (CAS No.:With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.mg/kg50n.d.1Disodecyl phthalate (DIDP) (CAS No.:With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.mg/kg50n.d.1	1000 1000 1000 1000
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74-2)analysis was performed by GC/MS.Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.mg/kg50n.d.2Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.mg/kg50n.d.2Diisodecyl phthalate (DIDP) (CAS No.:With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.mg/kg50n.d.2Diisodecyl phthalate (DIDP) (CAS No.:With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.mg/kg50n.d.2	1000
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(CAS No.: 117-81-7)analysis was performed by GC/MS.Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.mg/kg50n.d.Diisodecyl phthalate (DIDP) (CAS No.:With reference to IEC 62321-8: 2017, with reference to IEC 62321-8: 2017, mg/kgmg/kg50n.d.	
Diisobutyl phthalate (DIBP) (CAS No.:With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.mg/kg50n.d.30B4-69-5)Diisodecyl phthalate (DIDP) (CAS No.:With reference to IEC 62321-8: 2017, With reference to IEC 62321-8: 2017, mg/kg50n.d.30	1000
84-69-5)analysis was performed by GC/MS.Diisodecyl phthalate (DIDP) (CAS No.:With reference to IEC 62321-8: 2017,mg/kg50n.d.	1000
Diisodecyl phthalate (DIDP) (CAS No.: With reference to IEC 62321-8: 2017, mg/kg 50 n.d.	
	-
26761-40-0, 68515-49-1) analysis was performed by GC/MS.	
Diisononyl phthalate (DINP) (CAS No.: With reference to IEC 62321-8: 2017, mg/kg 50 n.d.	-
28553-12-0, 68515-48-0) analysis was performed by GC/MS.	
Di-n-octyl phthalate (DNOP) (CAS No.: With reference to IEC 62321-8: 2017, mg/kg 50 n.d.	-
117-84-0) analysis was performed by GC/MS.	
Bis(2-methoxyethyl) phthalate (DMEP) With reference to IEC 62321-8: 2017, mg/kg 50 n.d.	-
(CAS No.: 117-82-8) analysis was performed by GC/MS.	
Di-n-pentyl phthalate (DNPP) (CAS No.: With reference to IEC 62321-8: 2017, mg/kg 50 n.d.	-
131-18-0) analysis was performed by GC/MS.	
Di-n-hexyl phthalate (DNHP) (CAS No.: With reference to IEC 62321-8: 2017, mg/kg 50 n.d.	-
84-75-3) analysis was performed by GC/MS.	
1,2-Benzenedicarboxylic acid, di-C6-8- With reference to IEC 62321-8: 2017, mg/kg 50 n.d.	-
branched alkyl esters, C7-rich (DIHP) analysis was performed by GC/MS.	
(CAS No.: 71888-89-6)	
1,2-Benzenedicarboxylic acid, di-C7- With reference to IEC 62321-8: 2017, mg/kg 50 n.d.	-
11-branched and linear alkyl esters analysis was performed by GC/MS.	
(DHNUP) (CAS No.: 68515-42-4)	
Hexabromocyclododecane (HBCDD) With reference to IEC 62321-9: 2021, mg/kg 20 n.d.	-
and all major diastereoisomers analysis was performed by GC/MS.	
identified (α- HBCDD, β- HBCDD, γ-	
HBCDD) (CAS No.: 25637-99-4, 3194-	
55-6 (134237-51-7, 134237-50-6,	
134237-52-8))	

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
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.	-
PFOA and its salts (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.	-
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2013, analysis was performed by FT-IR and Flame Test.	**	-	Negative	-
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.	-
Arsenic (As) (CAS No.: 7440-38-2)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Tributyl tin (TBT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.	-
Triphenyl tin (TPT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	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.	-
Dibutyl tin (DBT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.	-
Dioctyl tin (DOT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	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.	-
lodine (l) (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	
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: 2015, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Bisphenol A (CAS No.: 80-05-7)	With reference to RSTS-CHEM-239-1, analysis was performed by LC/MS/MS.	mg/kg	1	n.d.	-

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  $\mu$ g/cm<sup>2</sup>. 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  $\mu$ g/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10  $\mu$ g/cm<sup>2</sup> and 0.13  $\mu$ g/cm<sup>2</sup> is considered to be inconclusive - unavoidable coating variations may influence the determination.

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### 10. $\blacktriangle$ : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$		
AX	А	F
Bis(tributyltin)oxide (TBTO)	Tributyl Tin (TBT)	1.0276

Parameter Conversion Table : https://eecloud.sgs.com/Region\_TW/DocDownload.aspx#otherDoc

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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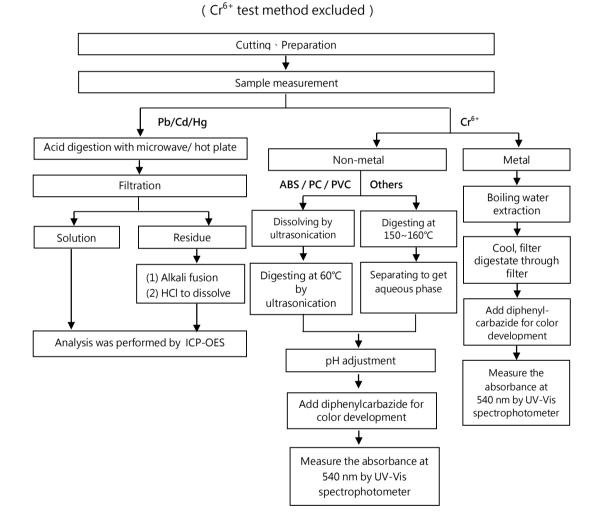
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#### Analytical flow chart of heavy metal

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



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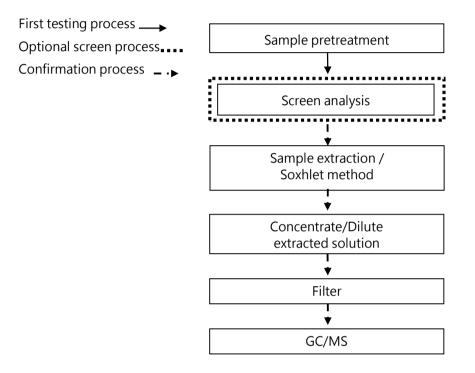
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### Analytical flow chart – PBBs / PBDEs



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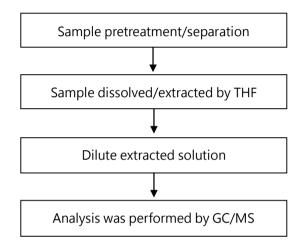
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SHINKO ELECTRIC INDUSTRIES CO., LTD. 80 OSHIMADA-MACHI, NAGANO-SHI, 381-2287 JAPAN

### Analytical flow chart - Phthalate

#### [Test method: IEC 62321-8]



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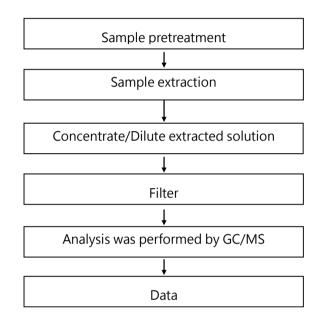
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### Analytical flow chart - HBCDD



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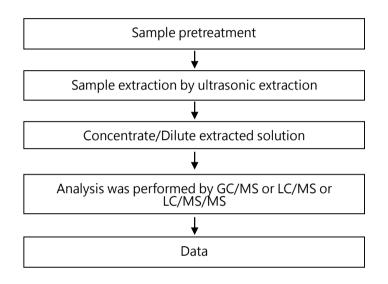


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### Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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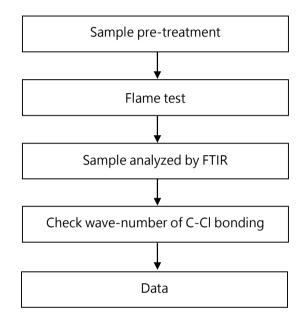
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### Analysis flow chart - PVC



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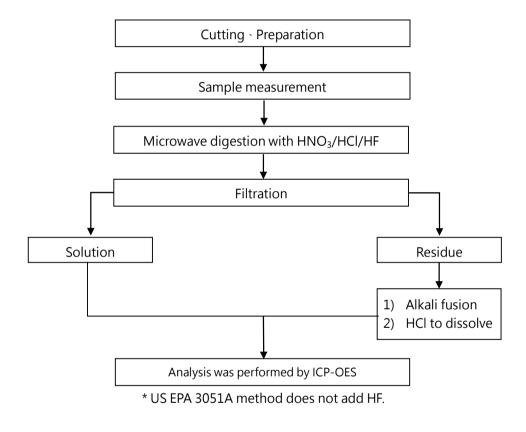
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### Analytical flow chart of elements (Heavy metal included)

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

[ Reference method : US EPA 3051A  $\scriptstyle \times$  US EPA 3052 ]



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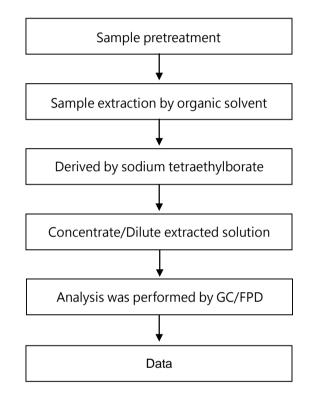


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### Analytical flow chart - Organic-Tin



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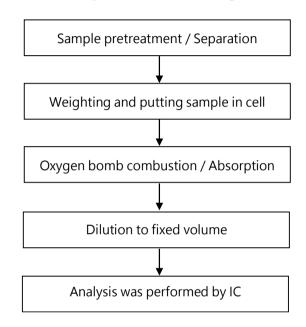


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Analytical flow chart - Halogen

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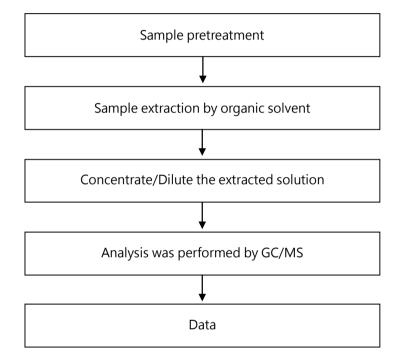
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### Analytical flow chart

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



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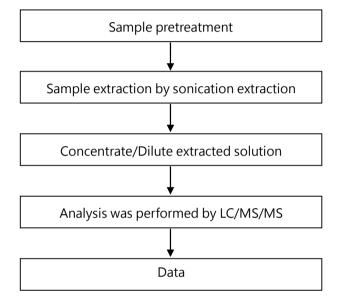


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### Analytical flow chart - Bisphenol A



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



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\*\* End of Report \*\*

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