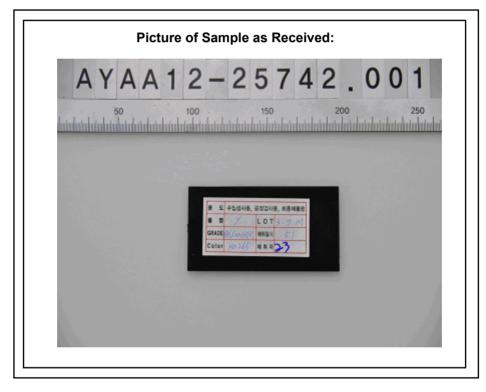


## Test Report No. F690101/LF-CTSAYAA12-25742

Issued Date: 2012. 07. 10 Page 3 of 5

Sample No.	: AYAA12-25742.001
Sample Description	: LUPOY GN5001RFG-K0265
Item No./Part No.	: N/A
Materials	: N/A
Halogen Contents	

Test Items	Unit	Test Method	MDL	Results
Chlorine(Cl)	mg/kg	BS EN 14582:2007 , IC	30	N.D.
Bromine(Br)	mg/kg	BS EN 14582:2007 , IC	30	N.D.



- NOTE: (1) N.D. = Not detected.(<MDL)
  - (2) mg/kg = ppm
  - (3) MDL = Method Detection Limit
  - (4) = No regulation
  - (5) Negative = Undetectable / Positive = Detectable
  - (6) \*\* = Qualitative analysis (No Unit)
  - (7) \* = Boiling-water-extraction:
    - Negative = Absence of CrVI coating

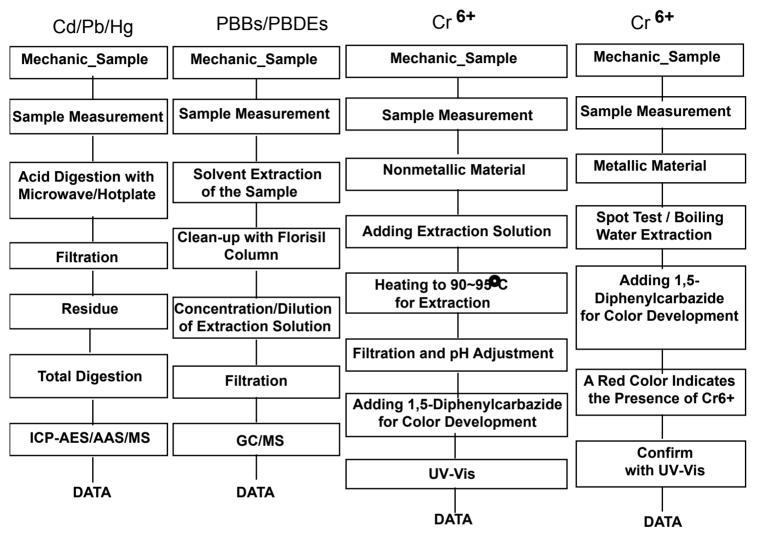
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

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### Test Report No. F690101/LF-CTSAYAA12-25742

## Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr<sup>6+</sup> /PBBs&PBDEs Testing



The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg. Section Chief : Gilsae Yi

NOTE: (1) N.D. = Not detected.(<MDL)

- (2) mg/kg = ppm
- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) Negative = Undetectable / Positive = Detectable
- (6) \*\* = Qualitative analysis (No Unit)
- (7) \* = Boiling-water-extraction:
  - Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

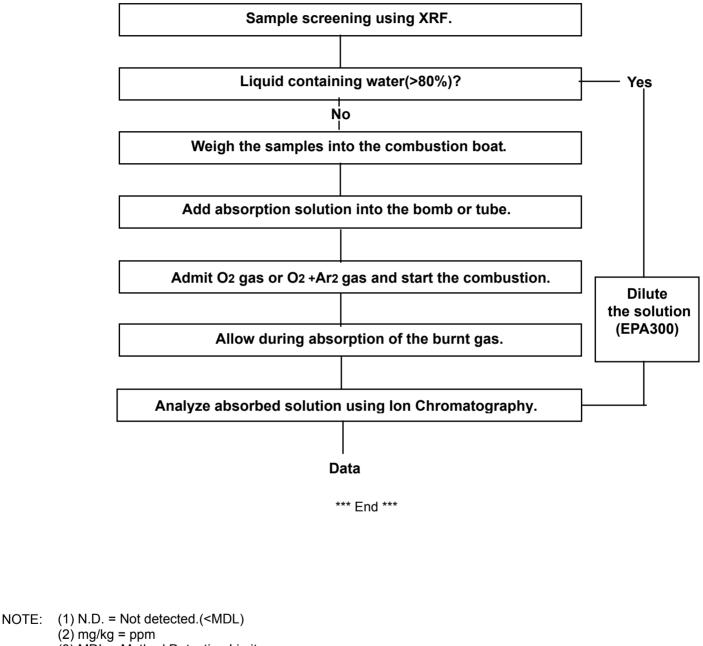
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Test Report No. F690101/LF-CTSAYAA12-25742

Issued Date: 2012. 07. 10 Page 5 of 5

## Flow Chart for Halogen Test



- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) Negative = Undetectable / Positive = Detectable
- (6) \*\* = Qualitative analysis (No Unit)
- (7) \* = Boiling-water-extraction:
  - Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

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322, The O valley, 555-9, Hogye-dong, Dongan-gu, Anyang-si, Gyeonggi-do, Korea 431-080



No.: GZ1208415927/CHEM

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Date: Aug 20, 2012 Page 1 of 5
```

YUENFUNG ELECTRONICS (SHENZHEN) CO., LTD

BLOCK 24, FIRST INDUSTRIAL AREA, FUYONG TOWN, BAOAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE.

The following sample(s) was/were submitted and identified on behalf of the applicant as PC PC-110

SGS Job No.
Manufacturer
Date of Sample Received
Testing Period
Test Requested
Test Method
Test Results

Conclusion:

: SZ-13492012EC : KAIWAN : Aug 15, 2012 : Aug 15, 2012 TO Aug 20, 2012 : Selected test (s) as requested by client. : Please refer to next page(s). : Please refer to next page(s).

: Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) **comply with** the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

Stison

Alison Zhang Approved Signatory

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No.: GZ1208415927/CHEM

Test Results:

Test Part Description: Specimen No.

SGS Sample ID Description

1 GZ1208415927.001 Transparent plastic grains

Remarks:

- (1) 1mg/kg=1ppm=0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (<MDL)</p>
- (4) "-" = Not Regulated

#### RoHS Directive 2011/65/EU

Test Method: With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs and PBDEs by GC-MS.

Test Item(s):	Limit	Unit	MDL	001
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	2	ND
Sum of PBBs	1000	mg/kg		ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl		mg/kg	5	ND
Tribromobiphenyl		mg/kg	5	ND
Tetrabromobiphenyl		mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl		mg/kg	5	ND
Sum of PBDEs	1000	mg/kg		ND
Monobromodiphenyl ether		mg/kg	5	ND
Dibromodiphenyl ether		mg/kg	5	ND

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Test Report	No.: GZ1208415927/CHEM			Date: Aug 20, 2012	Page 3 of 5
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether		mg/kg	5	ND	
Pentabromodiphenyl ether		mg/kg	5	ND	
Hexabromodiphenyl ether		mg/kg	5	ND	
Heptabromodiphenyl ether		mg/kg	5	ND	
Octabromodiphenyl ether		mg/kg	5	ND	
Nonabromodiphenyl ether		mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

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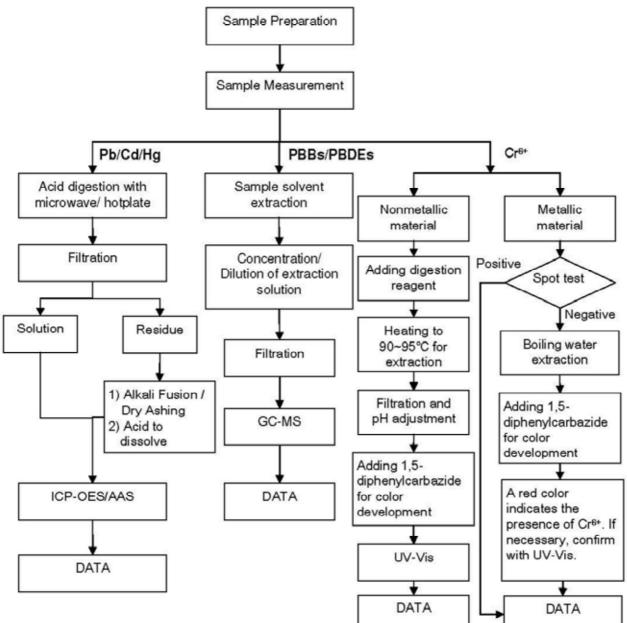


No.: GZ1208415927/CHEM

#### ATTACHMENTS

#### **RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Bella Wang / Cutey Yu / Ross Zhan
- 2) Name of the person in charge of testing: Adams Yu / Ryan Yang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart
- (Cr6+ and PBBs/PBDEs test method excluded).



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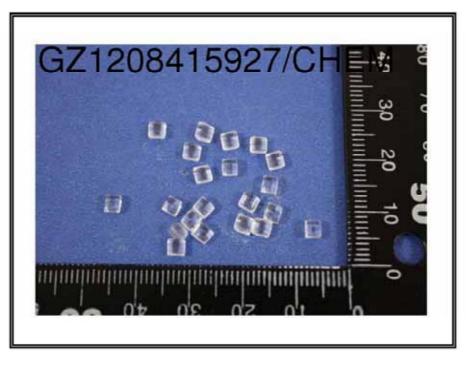
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No.: GZ1208415927/CHEM

Sample photo:



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Issued Date: 2013/02/27 Page 1 of 7

PTM Engineering Plastics (Nantong) Co., Ltd Nantong Economic and Technological Development Zone, China Hing 171

The following sample(s) was/were submitted and identified by/on behalf of the client as:

SGS File No.	: A Y A A11-00130
Item No./Part No.	: M90-44
Main Substance	: POM
Received Date	: 2013/02/23
Test Period	: 2013/02/21 TO 2013/02/27
Test Requested	
·	: In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
Test Method	
	: With reference to IEC 62321, Ed.1 111/54/CDV
	Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
	(1) Determination of Cadmium by ICP.
	(2) Determination of Lead by ICP.
	(3) Determination of Mercury by ICP.
	(4) Determination of Hexavalent Chromium by Colorimetric Method.
T ( D ) "	(5) Determination of PBBs and PBDEs by GC/MS.
Test Results	
Conclusion	: Please refer to next pages
	: Based on the performed tests on submitted samples, the results comply with the

RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of SCO-CSTO Chemical Laboratory

> Ella Zhang Section Manager

Signed for and on behalf of SGS=CSTC Chemical Laboratory

> Sandy Hao Lab Manager



#### Issued Date: 2013/02/27 Page 2 of 7

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	<u>1</u>	<u>MDL</u>	<u>RoHS</u> Limit
Cadmium(Cd)	(1)	ND	2	100
Lead (Pb)	(2)	ND	2	1000
Mercury (Hg)	(3)	ND	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	ND	2	1000
Sum of PBBs		ND	-	1000
Monobromobiphenyl		ND	5	-
Dibromobiphenyl		ND	5	-
Tribromobiphenyl		ND	5	-
Tetrabromobiphenyl		ND	5	-
Pentabromobiphenyl		ND	5	-
Hexabromobiphenyl		ND	5	-
Heptabromobiphenyl	(5)	ND	5	-
Octabromobiphenyl		ND	5	-
Nonabromobiphenyl		ND	5	-
Decabromobiphenyl		ND	5	-
Sum of PBDEs (Note 4)		ND	-	1000
Monobromodiphenyl ether		ND	5	-
Dibromodiphenyl ether		ND	5	-
Tribromodiphenyl ether		ND	5	-
Tetrabromodiphenyl ether		ND	5	-
Pentabromodiphenyl ether		ND	5	-
Hexabromodiphenyl ether		ND	5	-
Heptabromodiphenyl ether		ND	5	-
Octabromodiphenyl ether	1	ND	5	-
Nonabromodiphenyl ether		ND	5	-
Decabromodiphenyl ether		ND	5	-
Sum of PBDEs (Mono to Deca)		ND	-	-

Test Part Description: 1. Beige plastic pellet

Note:

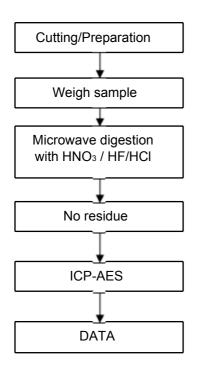
- (1) mg/kg = ppm
- (2) ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
- "-" = Not Regulated (5)
- (6) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC



Issued Date: 2013/02/27 Page 3 of 7

#### ATTACHMENTS

Cd and Pb Measurement Flowchart for sample



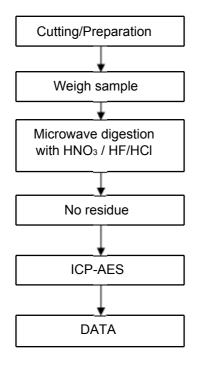
The samples were dissolved totally by pre-conditioning method according to above flow chart.

Tested by : Ken Wang Checked by : Terry Wang



Issued Date: 2013/02/27 Page 4 of 7

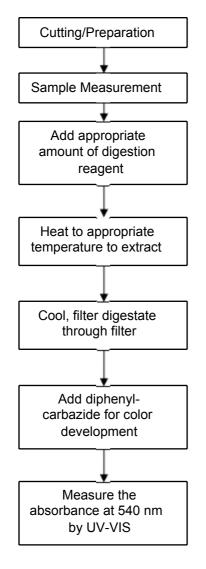
Hg Measurement Flowchart for sample



Tested by	: Ken Wang
Checked by	: Terry Wang



CrVI Measurement Flowchart for sample

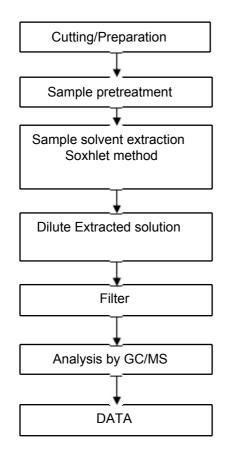


Tested by Checked by : George Xu : Terry Wang



Issued Date: 2013/02/27 Page 6 of 7

PBBs/PBDEs Measurement Flowchart for sample



Tested by Checked by : Diane Wang : Tracy Yue



Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*



No. CANEC1213021201 Date: 28 Sep 2012

Page 1 of 5

DONG GUAN WIDE CROSS METALS MATERIAL CO., LTD

OLD VILLAGE MANAGEMENT DISTRICT HUANGJIANG TOWN DONGGUAN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : C3604

SGS Job No. :	CP12-046440 - SZ
Date of Sample Received :	24 Sep 2012
Testing Period :	24 Sep 2012 - 28 Sep 2012
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

mary

Almay Gao Approved Signatory

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No. CANEC1213021201

Page 2 of 5

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN12-130212.001	Brassy metal

#### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive 2011/65/EU

- Test Method : With reference to IEC 62321:2008
  - (1) Determination of Cadmium by ICP-OES.
  - (2) Determination of Lead by ICP-OES.
  - (3) Determination of Mercury by ICP-OES.
  - (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	11
Lead (Pb)	1,000	mg/kg	2	31411 *1>
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	$\diamond$	Negative

#### Notes :

- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II
- (2) Spot-test:
- Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
- (The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
- Boiling-water-extraction:
- Negative = Absence of CrVI coating
- Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.
- For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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No. CANEC1213021201

Date: 28 Sep 2012 Page 3 of 5

Remark<1>: According to the declaration from the client, Lead (Pb) in specimen is exempted by EU RoHS Directive 2011/65/EU based on: Copper alloy containing up to 4 % lead by weight.

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No. CANEC1213021201

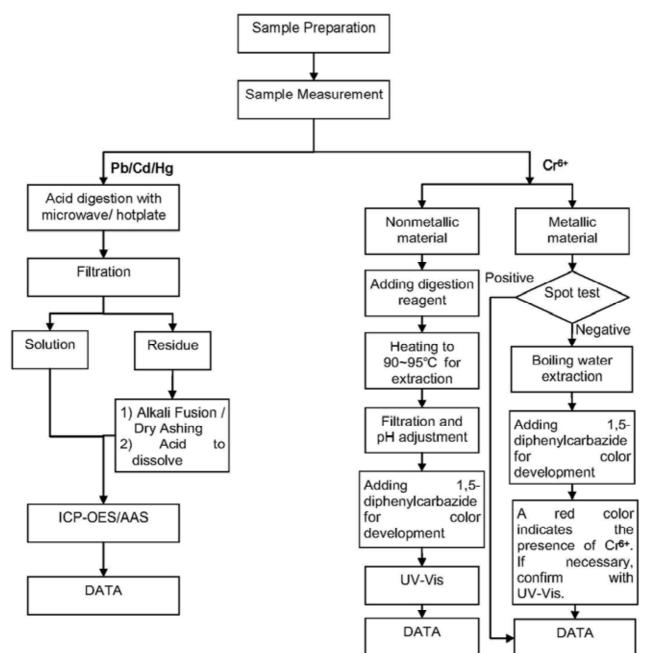
Date: 28 Sep 2012

Page 4 of 5

#### ATTACHMENTS

#### **RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Bella Wang
- Name of the person in charge of testing: Adams Yu
- These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ test method excluded).



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#### Report No. RLNBF000119930001

Page 1 of 4

# ApplicantNINGHAI YINGFENG OPTICAL COMPONENT CO.,LIMITEDAddressNINGHAI TOWN,ZHEJIANG PROVINCE

The following sample	(s) and sample information was/were submitted and identified by/on the	
behalf of the client		
Sample Name	POM	
Sample Received Date	Jan. 10, 2013	
Testing Period	Jan. 10, 2013 to Jan. 14, 2013	
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) in the submitted sample(s).	

#### **Test Method**

Test Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis	2 mg/kg
Polybrominated Biphenyls(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg

Test Result(s)

Please refer to the following page(s).

e Mia Tested Reviewed by Jan. 14, 2013 Approved by Date Chen Qian No. 13431481 Approved Signatory Centre Testing International(Ningbo)Co., ltd. 7-8/F/., Building A, No. 750. Chuangyuan Road, Gaoxin District, Ningbo, Zhengjiang, China



Report No. RLNBF000119930001



## **Test Report**

Page 2 of 4

ested Item(s)	Result		
Lead(Pb)	N.D.		
Cadmium(Cd)	N.D.		
Mercury(Hg)	N.D.		
Hexavalent Chromium(Cr(VI))	N.D.		
Fested Item(s)	Result		
Polybrominated Biphenyls(PBBs)	(6))	670	
Monobromobiphenyl	N.D.		
Dibromobiphenyl	N.D.		
Tribromobiphenyl	N.D.		
Tetrabromobiphenyl	N.D.		
Pentabromobiphenyl	N.D.		
Hexabromobiphenyl	N.D.		
Heptabromobiphenyl	N.D.		
Octabromobiphenyl	N.D.		
Nonabromobiphenyl	N.D.		
Decabromobiphenyl	N.D.		
Fested Item(s)	Result		
Polybrominated Diphenyl Ethers(PBDEs)			
Monobromodiphenyl ether	N.D.		
Dibromodiphenyl ether	N.D.		
Tribromodiphenyl ether	N.D.		
Tetrabromodiphenyl ether	N.D.		
Pentabromodiphenyl ether	N.D.	(67)	
Hexabromodiphenyl ether	N.D.		
Heptabromodiphenyl ether	N.D.		
Octabromodiphenyl ether	N.D.		
Nonabromodiphenyl ether	N.D.		
Decabromodiphenyl ether	N.D.		

Tested Sample/Part Description White plastic grains

Note:

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



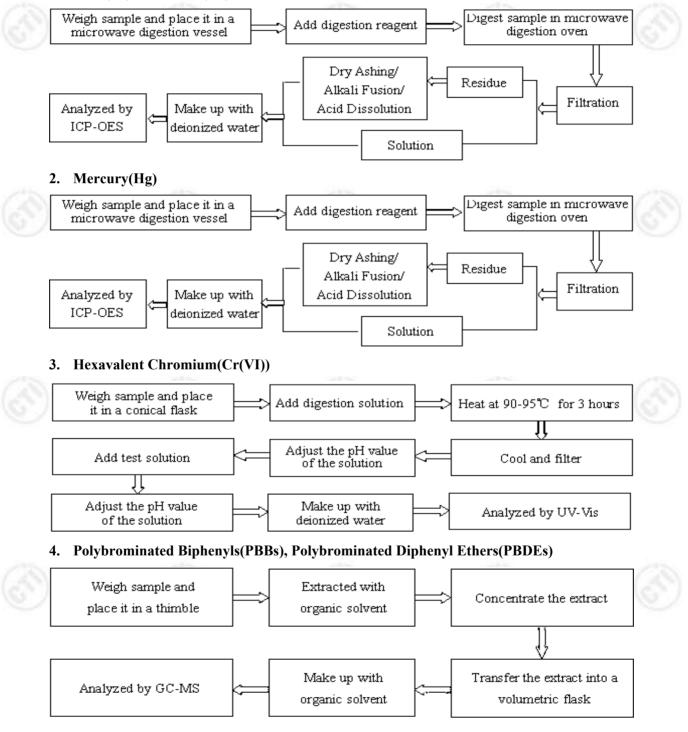


Page 3 of 4

**Test Process** 

1

#### 1. Lead(Pb), Cadmium(Cd)





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Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com 71 E-mail:info@cti-cert.com

400-6788-333

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Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.





No. CANEC1212565501 Date: 19 Sep 2012 Page 1 of 4

#### SHENZHEN CITY YONGLIXIN HARDWARE PRODUCTS CO., LTD

PART B7 THE THIRD INDUSTRIAL PARK, JIANGBIAN SONG GANG, BAO AN DISTRICT. SHENZHEN CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Nickel plated layer

SGS Job No. :	CP12-044987 - SZ
Date of Sample Received :	14 Sep 2012
Testing Period :	14 Sep 2012 - 19 Sep 2012
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).

Signed for and on behalf of SGS-CSTC Ltd.

Annie Liang Approved Signatory

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No. CANEC1212565501

Date: 19 Sep 2012

Page 2 of 4

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN12-125655.001	Silver-grey metal plating

#### Remarks :

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### Elementary Analysis

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Unit	MDL	001
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	$\diamond$	Negative

#### Notes :

(1) Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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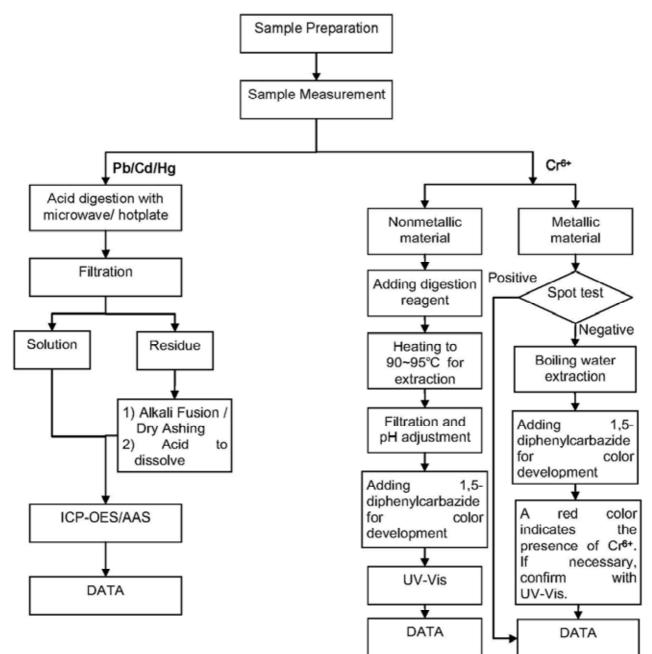
Date: 19 Sep 2012

Page 3 of 4

### ATTACHMENTS

#### **RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Bella Wang
- 2) Name of the person in charge of testing: Adams Yu
- These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ test method excluded).



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No. SHAEC1222647204

Date: 26 Dec 2012

Page 1 of 4

KUNSHAN CHENG TONGMING METAL CO., LTD.

NO.1 TONGMING ROAD PENGLANG TOWN KUNSHAN CITY JIANGSU CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : SWRCH18A

SGS Job No. :	SP12-036767 - SH
Date of Sample Received :	21 Dec 2012
Testing Period :	21 Dec 2012 - 26 Dec 2012
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).

Signed for and on behalf of SGS-CSTC Ltd.

for

JJ Fan Approved Signatory



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HL: (86-21) 61402594 HL: (86-21) 54500353



No. SHAEC1222647204

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA12-226472.004	Gray metal

#### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive 2011/65/EU

- Test Method : With reference to IEC 62321:2008
  - (1) Determination of Cadmium by ICP-OES.
  - (2) Determination of Lead by ICP-OES.
  - (3) Determination of Mercury by ICP-OES.
  - (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	004
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))	. <del></del> 5	-	$\diamond$	Negative

Notes :

- (1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II
- (2) Spot-test:

Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating

Positive = Presence of Cr(VI) coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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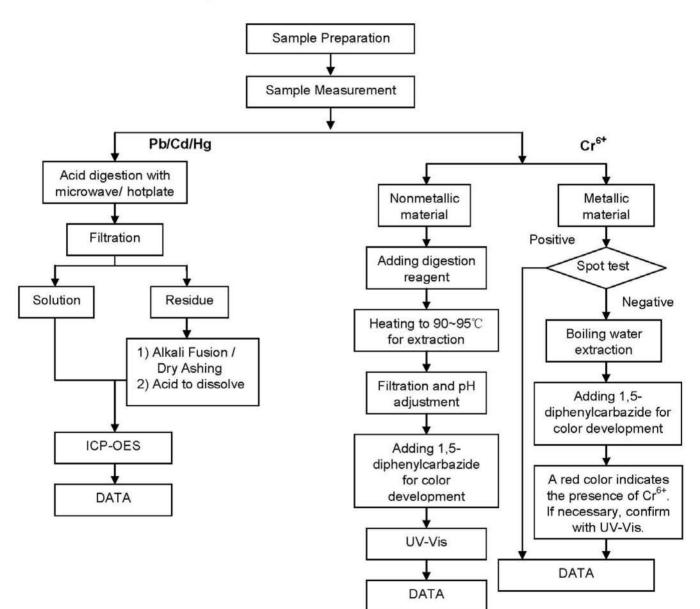
Date: 26 Dec 2012

Page 3 of 4

#### ATTACHMENTS

#### **RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Jan Shi/Yoyo Wang/Allen Xiao
- 2) Name of the person in charge of testing: Jeff Zhang/George Xu
- These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)



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#### Report No. RLSHE001285480003

Page 1 of 6

THE LIMITED COMPANY OF FUAN ELECTRONIC INSULATION NUBBER Applicant MANUFACTURE IN KUN SHAN NUMBER 839 OF BACHENGWEICHENG ROAD OF KUNSHAN Address

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

2

EVA foam
EVA
Dec. 4, 2012
Dec. 4, 2012 to Dec. 10, 201

**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), Fluorine (F), Chlorine (Cl), Bromin (Br), Iodine (I), Hexabromocyclododecane (HBCDD), Phthalates in the submitted sample(s).

**Test Method Test Result(s)** 

Please refer to the following page(s).

Please refer to the following page(s).







Tested

Approved by



No. 13574658

Centre Testing International (Shenzhen) Co., Ltd.Shanghai Branch No.1996, New Jinqiao Road, Pudong District, Shanghai

Senior Laboratory Manager



### Report No. RLSHE001285480003

### Page 2 of 6

#### **Test Method**

Test Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2mg/kg
Cadmium(Cd)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2mg/kg
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis	2mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5mg/kg
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3550C:2007	GC-MS	5mg/kg
Phthalates	Refer to EN 14372:2004	GC-MS	50mg/kg
Fluorine (F)	Refer to BS EN 14582:2007	IC	10mg/kg
Chlorine (Cl)	Refer to BS EN 14582:2007	IC	10mg/kg
Bromine (Br)	Refer to BS EN 14582:2007	IC	10mg/kg
Iodine (I)	Refer to BS EN 14582:2007	IC	10mg/kg

#### Test Result(s)

Tested Item(s)	Result
Lead(Pb)	17 mg/kg
Cadmium (Cd)	N.D.
Mercury(Hg)	N.D.
Hexavalent Chromium (Cr(VI))	N.D.
Tested Item(s)	Result
Polybrominated Biphenyls (PBBs)	
Monobromobiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromobiphenyl	N.D.
Decabromobiphenyl	N.D.

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Tested Item(s)		Result	
Polybrominated Diphenyl Ethers (PBD	Es)		
Monobromodiphenyl ether	1000	N.D.	
Dibromodiphenyl ether	(20)	N.D.	
Tribromodiphenyl ether	~	N.D.	
Tetrabromodiphenyl ether		N.D.	
Pentabromodiphenyl ether		N.D.	1000
Hexabromodiphenyl ether	6	N.D.	
Heptabromodiphenyl ether	0	N.D.	- O
Octabromodiphenyl ether	N.D.		
Nonabromodiphenyl ether	N.D.		
Decabromodiphenyl ether	N.D.		
Tested Item(s)		Result	
Hexabromocyclododecane (HBCDD)		N.D.	
Tested Item(s)		Result	2452
Halogen	6	8	
Fluorine (F)		N.D.	
Chlorine (Cl)		170 mg/kg	
Bromine (Br)		N.D.	
lodine (I)		N.D.	
Tested Item(s)	CAS No.	EC No.	Result
Phthalates			
Dibutyl phthalate(DBP)	84-74-2	201-557-4	N.D.
Benzylbutyl phthalate(BBP)	85-68-7	201-622-7	N.D.
Bis(2-ethyl(hexyl)) phthalate (DEHP)	117-81-7	204-211-0	N.D.

Tested Sample/Part Description Black foam

Note:

The sample had been dissolved totally tested for Lead, Cadmium, Mercury. -MDL = Method Detection Limit -N.D. = Not Detected (<MDL) mg/lig = nom = norts nor million

-mg/kg = ppm = parts per million



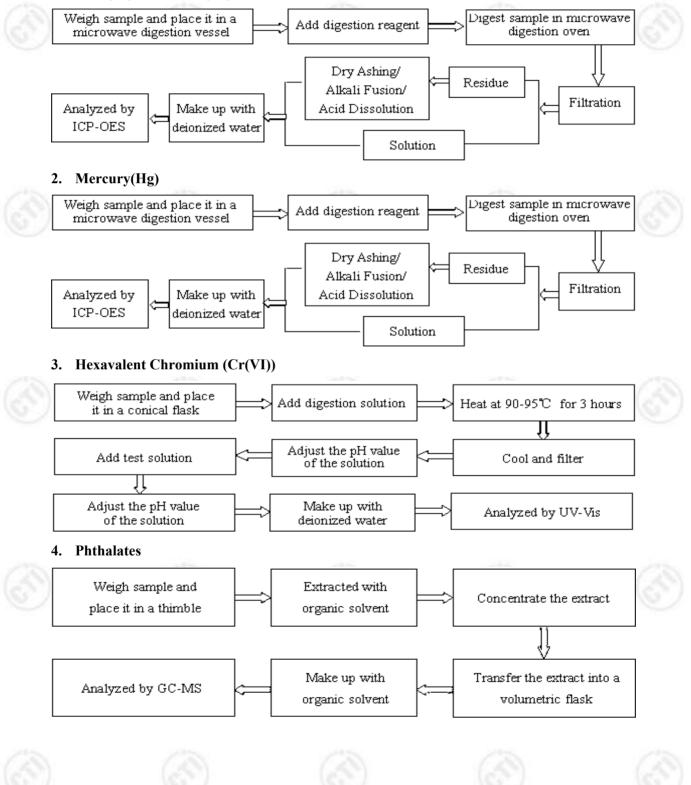


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#### **Test Process**

1

#### 1. Lead(Pb), Cadmium(Cd)



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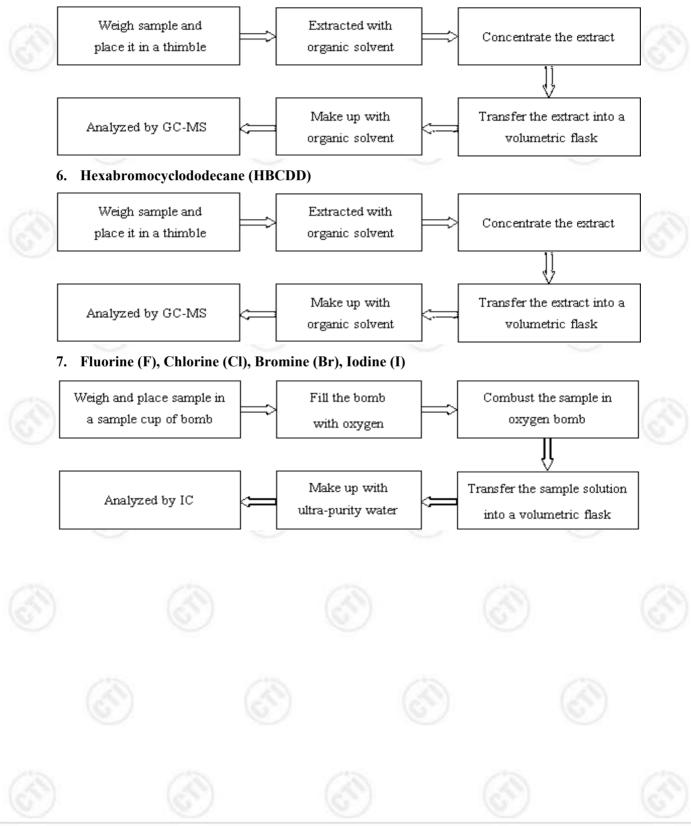
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## 5. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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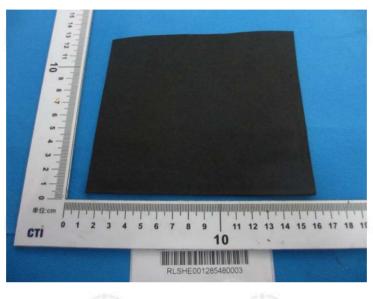
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# Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

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No. CANEC1300355801

Date: 15 Jan 2013

Page 1 of 11

SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO., LTD.

WOER MANSION, LANJING NORTH ROAD, PINGSHAN INDUSTRIAL ZONE, LONGGANG DISTRICT, SHENZHEN CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Please see remark

SGS Job No. :	CP13-000963 - SZ
Date of Sample Received :	08 Jan 2013
Testing Period :	08 Jan 2013 - 15 Jan 2013
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

M'N

Marco liang Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN13-003558.001	Black plastic tube w/ white printing

Remarks :

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive 2011/65/EU

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.

(5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Limit	<u>Unit</u>	MDL	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Report	No. CANEC13003558	01	Date: 15	Jan 2013	Page 3 of 11			
Test Item(s)	Limit	<u>Unit</u>	MDL	<u>001</u>				
Dibromodiphenyl ether	-	mg/kg	5	ND				
Tribromodiphenyl ether	-	mg/kg	5	ND				
Tetrabromodiphenyl ether	-	mg/kg	5	ND				
Pentabromodiphenyl ether	-	mg/kg	5	ND				
Hexabromodiphenyl ether	-	mg/kg	5	ND				
Heptabromodiphenyl ether	-	mg/kg	5	ND				
Octabromodiphenyl ether	-	mg/kg	5	ND				
Nonabromodiphenyl ether	-	mg/kg	5	ND				
Decabromodiphenyl ether	-	mg/kg	5	ND				

#### Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

#### <u>Halogen</u>

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	MDL	<u>001</u>
Fluorine (F)	mg/kg	50	91
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

#### **Elementary Analysis**

Test Method : With reference to US EPA Method 3052:1996, analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	MDL	<u>001</u>
Arsenic (As)	mg/kg	10	ND
Selenium (Se)	mg/kg	10	ND
Antimony (Sb)	mg/kg	10	ND
Barium (Ba)	mg/kg	10	ND

#### Hexabromocyclododecane (HBCDD)

Test Method : Determination of HBCDD by GC-MS based on IEC 62321:2008.

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Test Item(s)	٠	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD)		mg/kg	10	ND

No. CANEC1300355801

Notes :

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

Date: 15 Jan 2013

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#### **Phthalate**

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	% (w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	% (w/w)	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	% (w/w)	0.003	ND

Notes :

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

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Sample Name:

RSFR-H HEAT SHRINKABLE TUBINGS (E203950 🔊 🐼 WOER RSFR-H

TUBE 125°C VW-1 H)

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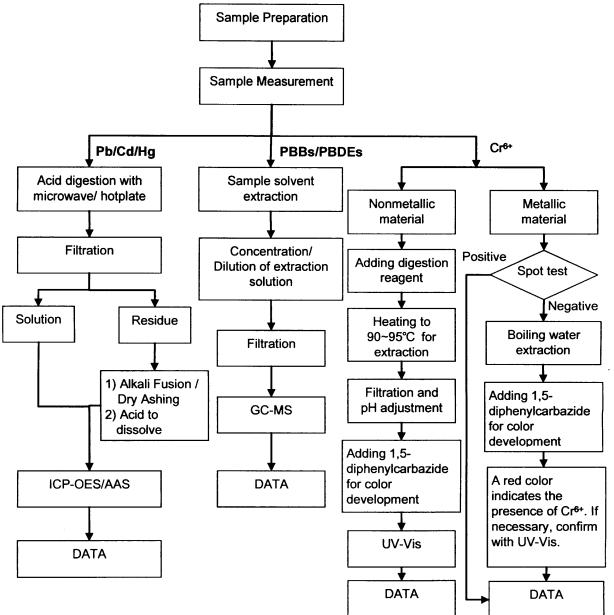
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## ATTACHMENTS

#### **RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Michael Tso / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
- These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



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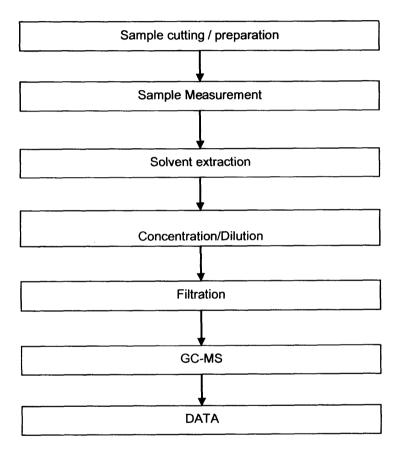
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#### **ATTACHMENTS**

#### Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Liu Qiong
- 2) Name of the person in charge of testing: Yolanda Wei



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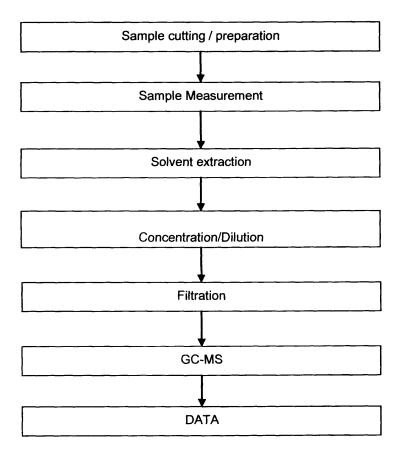
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### ATTACHMENTS

#### **HBCDD Testing Flow Chart**

- 1) Name of the person who made testing: Cutey Yu
- 2) Name of the person in charge of testing: Yolanda Wei



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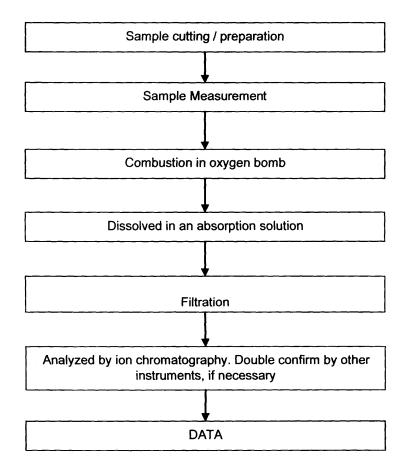
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#### ATTACHMENTS

#### Halogen Testing Flow Chart

1) Name of the person who made testing: Bella Wang

2) Name of the person in charge of testing: Adams Yu



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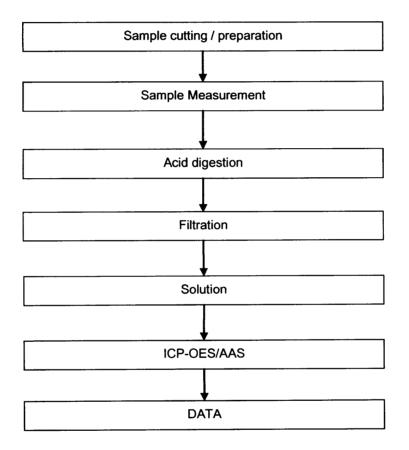
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#### **ATTACHMENTS**

#### **Elementary Testing Flow Chart**

1) Name of the person who made testing: Bella Wang

2) Name of the person in charge of testing: Adams Yu



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Sec. A. Carto

# SGS

# **Test Report**

No. CANEC1300355801

Date: 15 Jan 2013

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Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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# 譁裕實業股份有限公司 WHA YU INDUSTRIAL CO., LTD

# RoHS 排外條款說明 **RoHS Exclusive item Hazardous Substance**

本公司保證,本產品均屬環保產品,皆符合 RoHS 法規要求,並適用 於 RoHS 規定之排除條款。

We hereby confirm and assure that all parts and sub-materials delivered to your company comply with RoHS Standard and apply to RoHS Exclusive item.

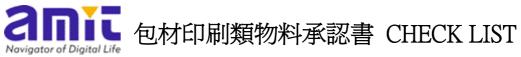
## RoHS 合金類排除條款要求如下: RoHS Exclusive item 3

合金種類 alloys item	鉛允許含量(ppm) Lead acceptance concentration
鋼材 steel	<3,500ppm
鋁合金 aluminum alloys	<4,000ppm
銅合金 copper alloys	<40,000ppm
焊錫 solder	<1,000ppm

#### 立承諾書人

公司名稱:譁裕實業股份有限公司 company name: WHA YU INDUSTRIAL CO., LTD 公司地址:新竹市公道五路二段 326 號 company address:No.326. Sec 2. Kung Tao 5 Road. Hsin Chu City, Taiwan 聯絡電話: 03-5714225 TEL:+886-3-5714225 負責人: 林祺牛 董事長 sign by 立約日期: 西元 2006 年 9月 05日 Date: 2006. 09. 05





※第一頁為承認書(APPROVAL SHEET)封面,必須註明以下資訊,包括:
□ 1、永洋料號(AMIT P/N)料號是否印製於彩盒上
■ 2、供應商對應料號與供應商型號(Part NO, Internal code)
■ 2 Klan All All All All All All All All All Al
■ 4、產品名稱
※第二頁 <mark>必需</mark> 爲承認書的目錄,且必須符合下列的格式:
目錄(Specification Index)
■ 1、零件基本資料
■ 2、規格(specification)
■ 3、圖面(mechanical drawing)
■ 4、性能檢測報告(Performance Test Report)
□ 5、可靠度測試報告(Rellabibility test)
□ 6、各項性能測試報告(performance report)
□ a、安規認証証明(safety certification)
□ b、Adapter 供應商須提供 BOM(組成零件及其供應商順序)
□ c、Adapter 供應商須提供包裝方式(Packing information)
(項目 5-6 爲天線及 Adapter 涉及電氣特性部份須提供, 其它供應商不必提供)
□ 7、包裝方式(Packing information)(文字描述與圖面圖示,須敘述以何包裝進貨,每箱
之數量。例如每箱為 40 個,以珍珠袋包裝,包裝箱內以間隔板間隔)。
□ 8、其他:此項目為某特定零件必須附上的附件,例如:銘板(Front Panel)-須附上底片,
以方便核對孔位(請塡入項目,如底片…)。
※■9、永洋 RoHS 調査表(請另外填寫"永洋 RoHS 調査表範本 for 零件供應商(Excel
※■9、水井 Kond 調查衣(韶分外填為 水井 Kond 調查衣軋本_101 令件快感的(EXCE
檔)"並按照內容說明指示提供所需要的資料,請附加檔案至 Excel 檔中。)
請注意
※ 如有物質超標請提供相關佐證資料(超標材質與符合條款)及材質證明。
※ 限用物質承諾保證書須在送樣承認前經 AMIT 稽核審查合格,方可進行承認流程。
※ 送樣承認時須同時檢附 AMIT RoHS 調查表-Excel File。
※ 請務必依 Check List 所條列之項目,於承認書送出時確認資料是否完整正確

AMIT 申請人員確認:\_\_\_\_\_;供應商確認:\_\_\_\_<u>況芳</u>\_\_\_\_

										定數據 mg/kg=ppm											物質	物質成份表				
Item	<b>永洋料號</b> (P/N)	<b>永祥品名</b> (Description)	原版/製油陶型製 (SUPPLIER PN)	₩₩ 製造同名幣	<b>零件單直</b> (mg)	<mark>分量之均句材質</mark> (Homogeneous Material ) Sub-parts	<b>原材料概色</b> ( <b>國際・油風及港料必填</b> ) The color of raw material (Required for plastic, ink and paint)	If the plating layer exist or not?(Y/N)/If yes, please describe the material of the plating layer	分離之 均句材質 單重(mg)	(Pb)	(Cd)	👷(Hg)	大 <mark>優勝</mark> (Cr+6)	<b>P53</b>	PEDE	PPOS	實驗室名帶	分析報告號碼	橡鋼報告日期	第三公司单位化学分 行報告 Attached test report	÷	元案·化合物 比重 (%)	苏新集款	材質識明		
		φ1.13mm Coaxial Cable- 外被				Jacket	Transparency Brown			ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)	ND (<5ppm)	сп	RLSHE001184460005	2012/10/8	RI. SI BUNJI INAA SOO	FEP	100	YES			
	φ1.13mm Coaxial Cabl 編練	φ1.13mm Coaxial Cable- 編織	編織				Braid shield(Sliver-Tinned Copper)	N			ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	Negative	ND (<5ppm)	ND (<5ppm)	ND (<5ppm)	сп	RLNBE000117020001	2012/12/25	RLNBE000117020	Cu Ag Si	98.368 0.62 <0.008	YES		
1	11320Y11164A1	φ1.13mm Coaxial Cable- 絕祿		SHENYU	770	Insulation	N	Y	770	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)	ND (<5ppm)	SGS	SHAEC1301214305	2013/2/1	DMARC 130121430	FEP	100	YES	1.13林康灰色		
		φ1.13mm Coaxial Cable- 導體				Conductor(Silver-Coated Copper clad Steel)	N			ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	Negative	ND (<5ppm)	ND (<5ppm)	٠	SGS	SHAEC1207662608	2012/5/19	SHAEC1207662608	Cu Ag Pb Bi	98.368 0.62 <0.0021 <0.0016	YES			
				GUANG		TPE	N	N		ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)		SGS	CE/2012/44809	2012/11/16	CE_2012_44609	TPE	100	YES			
2	11320Y11164A1	Antenna Body		QUAN	4600	Black Powder	Black	N	4600	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)	٠	SGS	P690101/LF-CTSAYAA12-2574	2012/7/10				YES	1155LL0820		
_				GUANG	1800	PC-110	N	N		ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)	٠	SGS	GZ1208415927/CHEM	2012/8/20	0212000027_0	PC	100	YES	12		
3	11320Y11164A1	Antenna Base		QUAN	1800	Black Powder	Black	N	1800	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)	٠	SGS	F690101/LE-CTSAYAA12-2574	2012/7/10	CT 822 82 X 22 4 8 5 7 43				PC-11089 3838999		
,	11320Y11164A1	Antenna Base		GUANG	1550	PC-110	N	N	1550	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)	۰	SGS	GZ1208415927/CHEM	2012/8/20	GE1200000-0	PC	100	YES	PC I OFF BURN		
7	11320111104741	Antenna base		QUAN	1550	Black Powder	Black	N	1550			ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)	٠	SGS	P690101/LF-CTSAYAA12-2574	2012/7/10	CTENTIAL DE STAL				PC-11097 Billion
5	11320Y11164A1	Rivet		RAYCONG	40	POM	N	N	40	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)	٠	SGS	CE/2013/81088A	2013/2/27	CE_2013_01000A	POM	100	YES			
Ĵ	11.520111104711	River		RATCONG	40	Black Powder	Black	Ν	40	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)	٠	SGS	P690101/LF-CTSAYAA12-2574	2012/7/10	TTEN YAA (S-2014)			YES			
6	11320Y11164A1	Ground Tube		HONGCHANG	980	Brass	N	N	980	31,411.	11.	ND (<2ppm)	Negative		٠	•	SGS	CANEC1213021201	2012/9/28		Cu Ph Fe Fe+Sn Zn	57~61 1.8~3.7 <0.5 <1.2 REV	YES			
						POM	N	N		ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)	٠	CTI	RLNBF000119930001	2013/1/14	Rethomodification and the	POM	100	YES			
						Ni-Plated	N	Y		ND (<3ppm)	ND (<2ppm)	ND (<2ppm)	Negative	*	*		SGS	CANEC1212565501	2012/9/19	CAMICIPIZIOSO	Ni	100	YES			
7	11320Y11164A1	Helix		JUE MAO	1000	統綱	N	N	1000	ND (<3ppm)	ND (<2ppm)	ND (<2ppm)	Negative	*	*		SGS	SHAEC1222647204	2012/12/26	SHARE TYPE OF YES			YES			
						Ni-Plated	N	Y		ND (<3ppm)	ND (<2ppm)	ND (<2ppm)	Negative	*	*	*	SGS	CANEC1212565501	2012/9/19	CARE TYT SOSSO	Ni	100	YES			
8	11320Y11164A1	EVA		MING ZHAN	35	EVA	N	N	30	17.	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)	*	сп	RLSHE001285480003	2012/12/10	RLSHE0012854800 03	EVA PE 發海濟 碳酸鈣		YES			
9	11320Y11164A1	H.S Tube		WOER	50	Heat Shrink Tube	N	N	50	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<2ppm)	ND (<5ppm)	ND (<5ppm)	٠	SGS	CANEC1300355801	2013/1/15	CANISCI 300355801	PE ATJ APP	48 35 10	YES	(X) HE ASSAU		