

WHA YU INDUSTRIAL CO., LTD. (HEAD OFFICE)
TAI HWA ELECTRONIC CO., LTD.(CHINA)
SHANGHAI HUA YU ELECTRONIC CO., LTD.(CHINA)
AEON TECH CO., LTD. (CHINA)

SPECIFICATION FOR APPROVAL

CUSTOMER: 華碩電腦股份有限公司

PART NAME: RF Antenna Assembly

PART NO.: 14G150001000

REVISION:

W. Y. P/NO.: C660-510003-A

REV.: X3

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :		
DATE :		

WHA YU GROUP

WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

譚裕實業股份有限公司

Address: No.326, Sec 2, Kung Tao 5 Road, Hsin Chu City, Taiwan, R.O.C.

Tel:+886-3-5714225(REP.)

Fax:+ 886-3-5713853 · + 886-3-5723600

TAI HWA ELECTRONIC CO., LTD. (CHINA)

台樺電業製品廠

Address: Pak Ho District, Hiu Street Town, Dong Guan City, Guangdong, China

Tel: + 86-769-5599375 · + 86-769-5912375

Fax: + 86-769-5599376

HUA HONG INTERNATIONAL LTD.

華弘國際有限公司

Rm.1103A,President Commercial Centre,608 Nathan Road,Mong Kok,Kowloon,Hong Kong

Tel: + 86-852-27712210

Fax: + 86-852-23843747

SHANGHAI HUA YU ELECTRONIC CO., LTD. (CHINA)

上海譚裕電子有限公司

Address:3586,Wai Qing Song Road, Qing Pu County, Shanghai China

Tel: + 86-21-59741348 · + 86-21-59744101~4

Fax: + 86-21-59741347

SU ZHOU AEON TECH CO., LTD. (CHINA)

蘇州華廣電通有限公司

Address:Limin North Road, LiLi Town,LiLi Industrial Park,LinHu Economic Zone

Wujiang City, Jiangsu Province, China

Tel: + 86-512-63627980

Fax: + 86-512-63627981

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RF Antenna Cable Assembly

Specification

1. Electrical Properties :

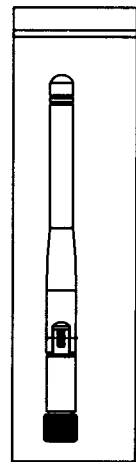
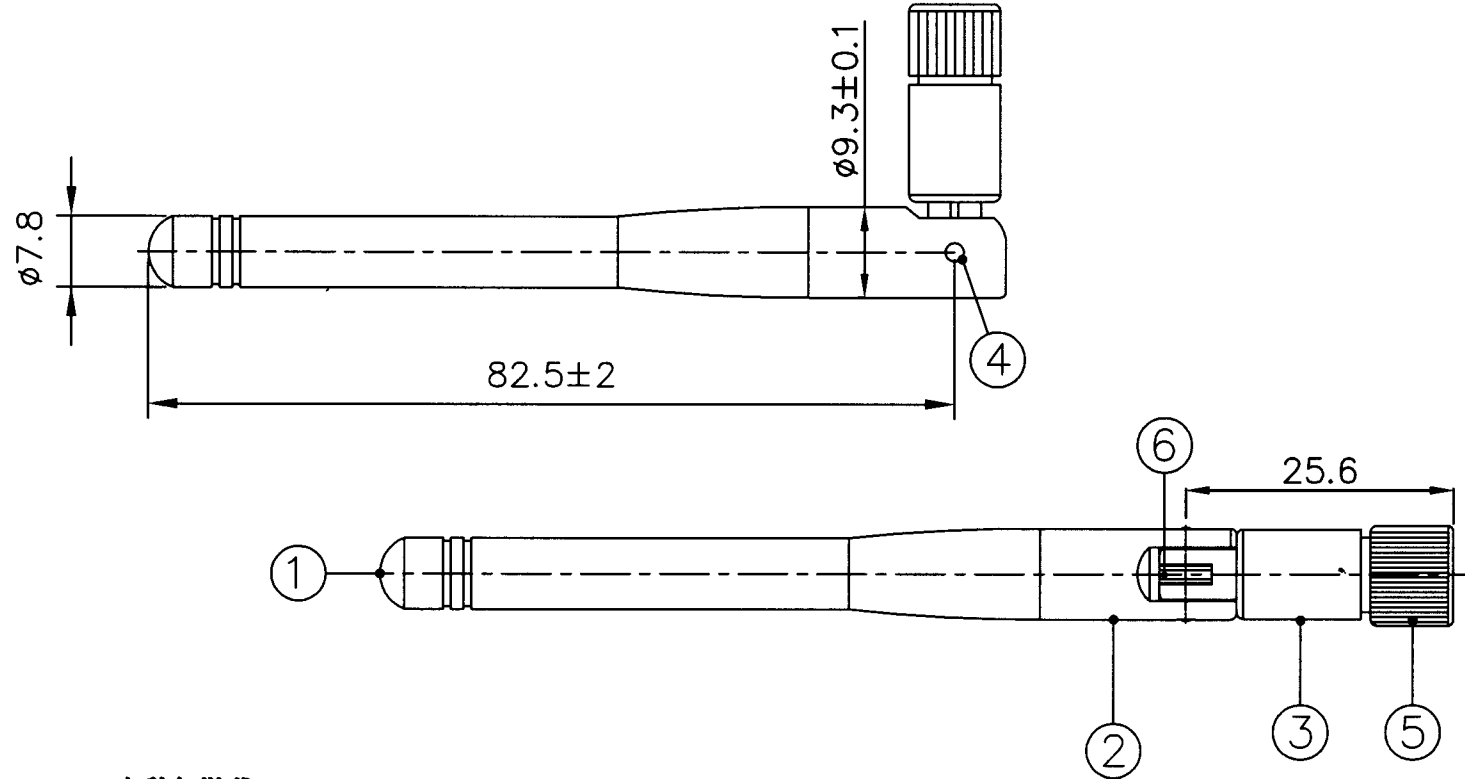
- 1.1 Frequency Rang..... 2.4GHz ~ 2.5GHz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR 1.92 Max.
- 1.4 Return Loss..... -10dB Maximum
- 1.5 Electrical Wave..... 1/2 λ Diople
- 1.6 Gain..... 1.8 dBi
- 1.7 Admitted Power..... 1W

2. Physical Properties :

- 2.1 Cable..... RG-178 Cable
- 2.2 Antenna Cover..... TPE
- 2.3 Antenna Base..... PC
- 2.4 Operating Temp. -20°C ~ +65°C
- 2.5 Storage Temp. -30°C ~ +75°C
- 2.6 Color Black
- 2.7 Connector..... SMA Plug Reverse

CG-

REV	DATE	DESCRIPTION
X1	2/19-2004	New Issue
X2	9/26-2005	Modify material , Add package



Packing : 1pcs/bag


自黏包裝袋

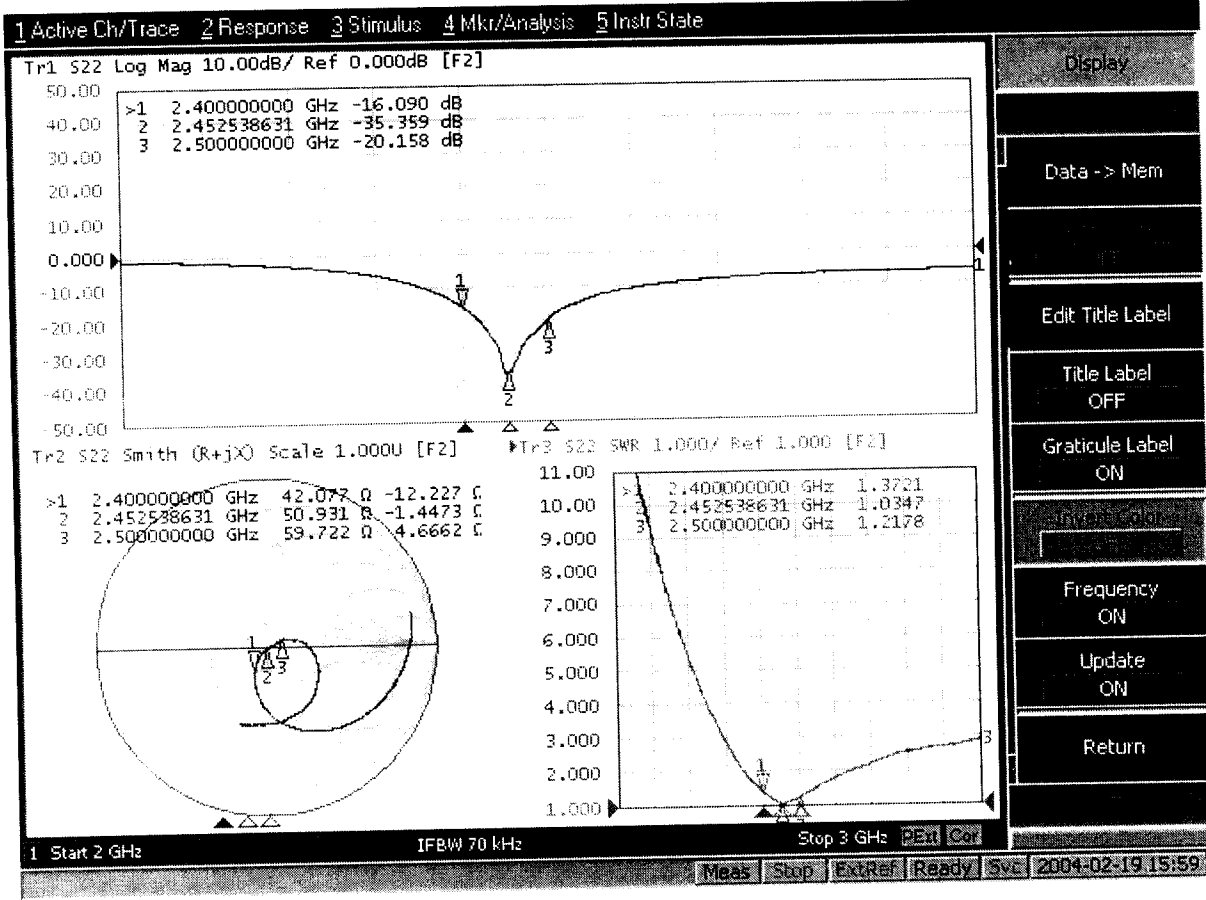
NO	DESCRIPTION	QTY	REMARK
6	Cable	RG-178 , Translucent Brown ; 50 Ω	1
5	Connector	SMA Straight Plug/Reverse	1
4	Rivet	Brass , Zn Plated (Black)	2
3	Antenna Base	PBT ; Color:Black	1
2	Antenna Base	PC ; Color:Black	1
1	Antenna Cover	TPE ; Color:Black	1

CUSTOMER'S SIGNATURE

XX	± 5	APPROVED
X	± 1.0	CHECKED
X	± 0.1	DRAWING
XX	± 0.01	
XXX	± 0.005	

CUSTOMER: 華碩電腦股份有限公司		
PART NO :		
PARTNAME: RF Antenna Assembly		
W.Y P/NO : C660-510003-A		
REV	UNIT	FILE :
X2	m/m	SHEET : 1/1


Wha Yu INDUSTRIAL CO.,LTD.
 華裕實業股份有限公司
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Display

Data -> Mem

Edit Title Label

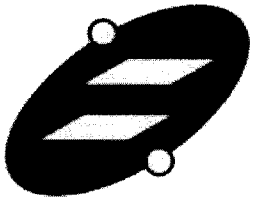
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Graticule Label ON

Frequency ON

Update ON

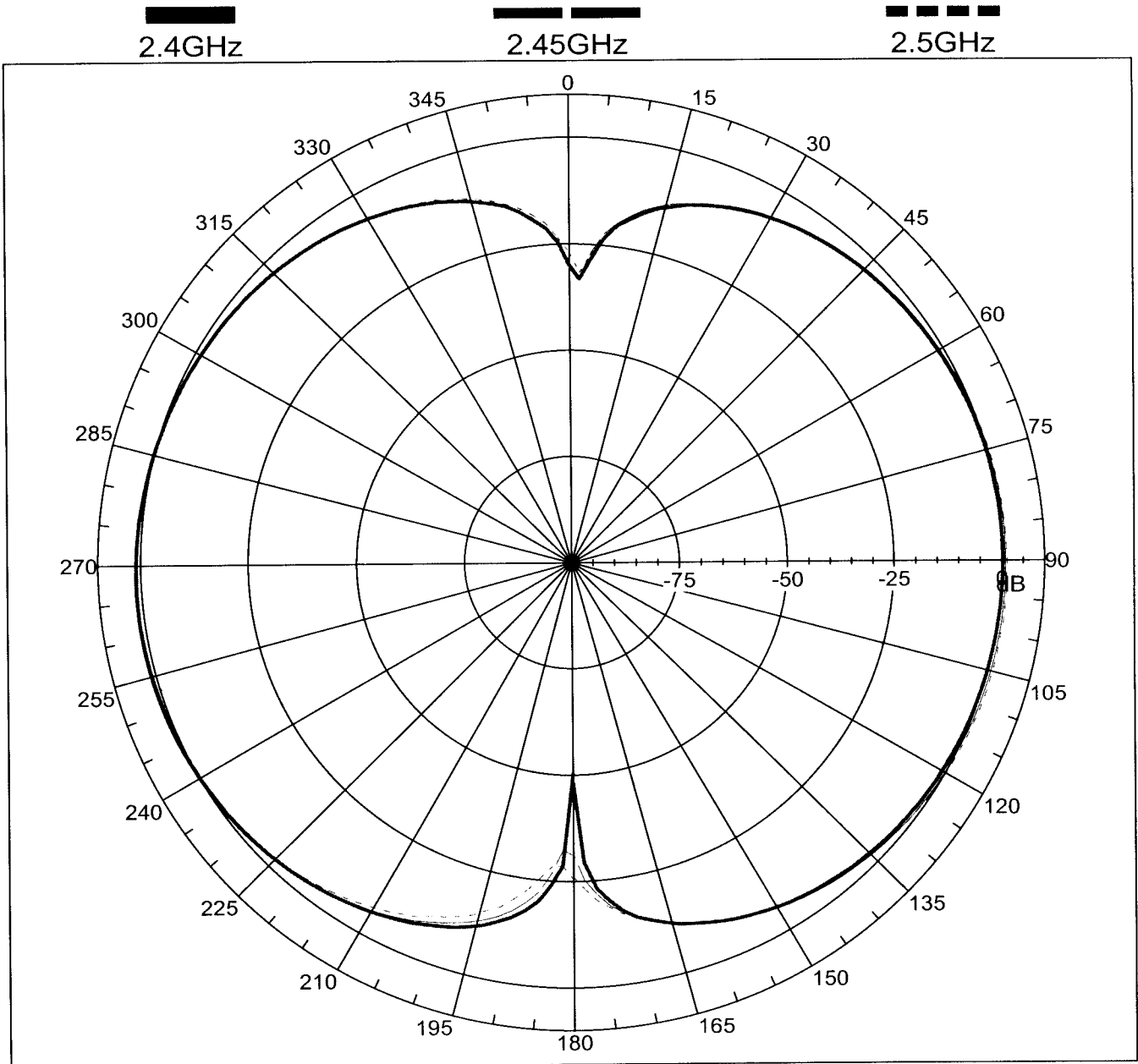
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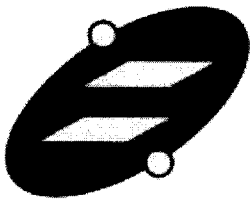


譚裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

Far-field amplitude of 2.4GHz small dipole antenna-E-plane.nsi

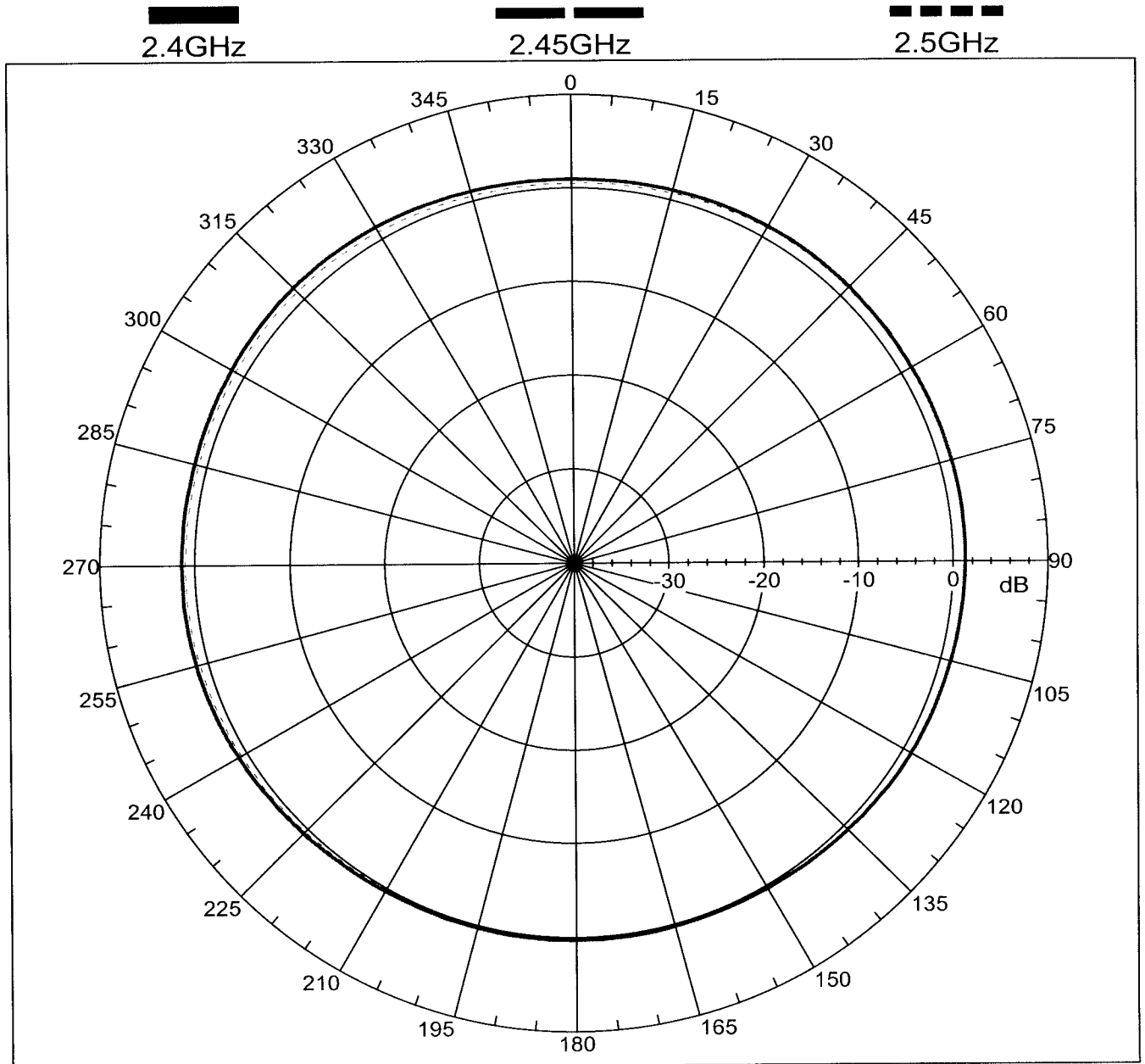




譚裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

Far-field amplitude of 2.4GHz small dipole antenna-H-plane.nsi



PRODUCT SPECIFICATION	ISSUED DATE	July.12, 2000	PAGE	1/2
	REVISION		REVISION NO.	

PRODUCT NAME : Coaxial Cable
RATING : -55°C ~ 200°C
ITEM : RG 178 B/U

誠 謙

No.	Revised Date	Revised Details	Page	Report

REPORTED BY :

APPROVED BY :




Q.C Engineer HOON LEE

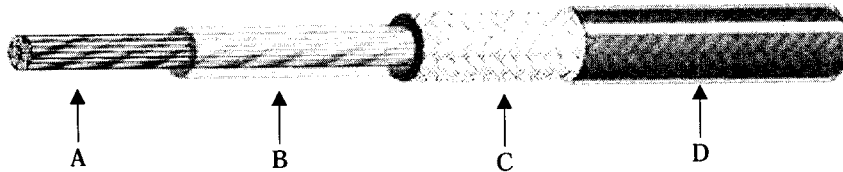
Q.C Manager SOON-MOK SHIN

PRODUCT SPECIFICATION	ISSUED DATE	July.12, 2000	PAGE	2/2
	REVISION		REVISION NO.	

1. APPLICATIONS

This specification is applies to Coaxial Cable manufactured by the YOUNG CHANG SILICONE CO.,LTD

2. STRUCTURE



- A. Conductor: SCCS
- B. Insulation : PFA
- C. Shield : Silver-Plated Copper
- D. Jacket : FEP

3. DIMENSION

Conductor (SCCS)			Insulation		Shield		Jacket	
Structure	Cross sectional area	Diameter	Material	Diameter	Material	Diameter	Material	Diameter
Q'ty/mmφ	mm ² (SQ)	mmφ		mmφ		mmφ		mmφ
7/0.102	0.06	0.30	PFA	0.84±0.05	SPC	1.25	FEP	1.80±0.10

4. ELECTRIC PROPERTIES

Impedance	Capacitance	Maximum Attenuation (dB/100ft)				Dielectric Sterngth
		100Mhz	400Mhz	1Ghz	3Ghz	
ohms	pF/ft(Max)					V/1min
50 ± 2	32	16.0	33.0	52.0	94.0	2000



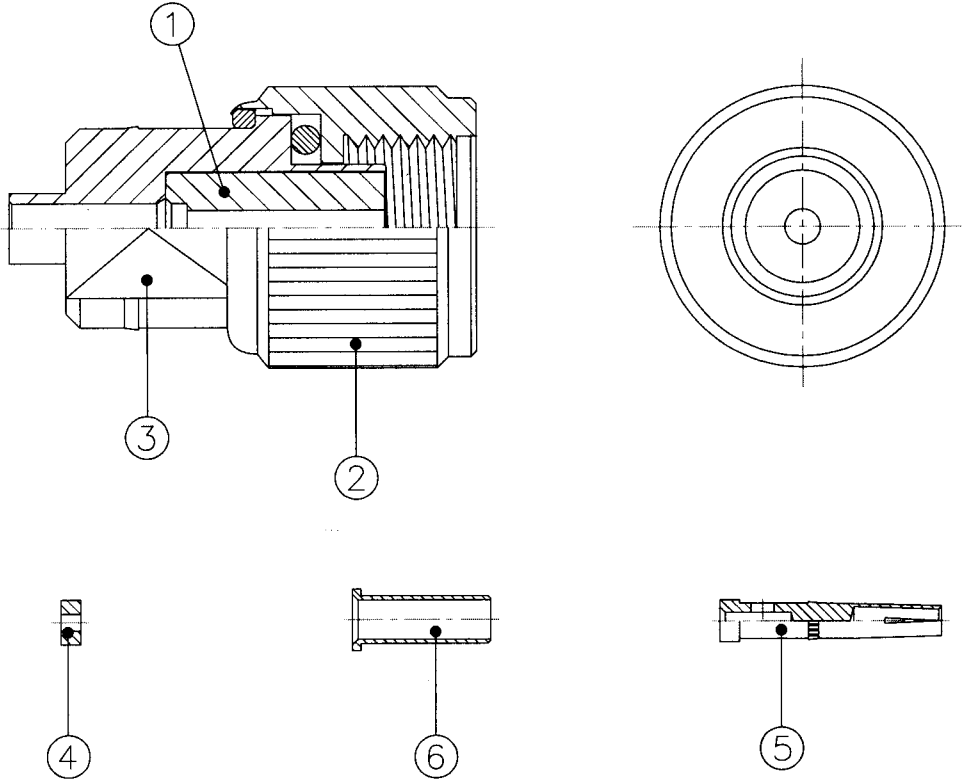
譚裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

Connector 材質證明書

譚裕料號 Whayu P/N	100-2001150-AZ	產品名稱 Product Name	SMA Plug Reverse Straight For RG-178
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結構圖面



材質成份

表面處理

		材質成份							表面處理	
1	絕緣體	Teflon	PTFE							N/A
2	外殼	Brass	Cu	Pb	Fe	Fe+Sn	Zn		電著	
3	本體	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍鎳	
4	絕緣體	Teflon	PTFE							N/A
5	中心針	Phos. Bronze	Cu	Sn	P	Zn	Pb		鍍金	
6	尾管	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍鎳	

Remark :



ET-QA-0017-A2

SGS Test Report

Product : RF Antenna

Contents

No	Description		Report No.	Page
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2	Antenna Body	TPE EL-630	GZSCR050640653/LP	P.20~21
3	Antenna Base	PC L-1250Z	GZSCR050640656/LP	P.22~23
4	Antenna Base	PBT	SH533383/CHEM	P.24~25
5	Rivet	Brass , Zn Plated	GZML060201325 SZTYR050305623/LP	P.26~28
6	Connector	SMA Plug Reverse	SH517723/CHEM GZML060201325 GZSCR050421403/LP 2054827/EC 2054838/EC	P.29~40
7	Ground Tube	Brass ; Tin Plated	GZ0602013169/CHEM GZSCR051191692/LP	P.41~43

Result for RoHS : PASS

SGS**Test Report No. F690501/LF-CTS500034**

Date: September 22, 2005

Page 1 of 2

To: DO SOL CO., LTD
1256-7
Jungwang-dong
Shiheung-city,
KYUNGGI-DO 429-450
Korea

The following merchandise was submitted and identified by the client as :

Commodity : Please refer to the next page.
SGS File No. : GP05-0026
Received Date : September 14, 2005
Test Performing Date : September 15, 2005
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)

SGS Testing Korea Co. Ltd.

Jason Han / Lab Director

Jeff Jang / Technical Mgr

SGS**Test Report No. F690601/LF-CTS500034**

Date: September 22, 2005

Page 2 of 2

Sample No. : GP05-0026.003

Sample Description : AgCu Wire

Style/Item No. :

Comments : Materials: METAL

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium(Cd)	mg/kg	USEPA 3050B, ICP-AES	0.5	N.D.
Lead (Pb)	mg/kg	USEPA 3050B, ICP-AES	5	N.D.
Mercury (Hg)	mg/kg	USEPA 3502, ICP-AES	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	USEPA 3060, UV-vis	1	N.D.

*** End ***

NOTE: N.D. = Not detected.(<MDL)
 ppm = mg/kg
 MDL = Method Detection Limit
 "-" = No Regulation
 "*" = Qualitative analysis (No Unit)
 Negative = Undetectable / Positive = Detectable

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SGS

Test Report No. F690501/LF-CTS500035

Date: September 22, 2005

Page 1 of 2

To: DO SOL CO., LTD
1256-7
Jungwang-dong
Shiheung-city,
KYUNGGI-DO 429-450
Korea

The following merchandise was submitted and identified by the client as :

Commodity : Please refer to the next page.
SGS File No. : GP05-0026
Received Date : September 14, 2005
Test Performing Date : September 15, 2005
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)

SGS Testing Korea Co. Ltd.




Test Report No. F690601/LF-CTS500036

Date: September 22, 2005

Page 2 of 2

Sample No. : GP05-0026.004
Sample Description : AgCp40% Wire
Style/Item No. :
Comments : Materials: METAL

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium(Cd)	mg/kg	USEPA 3050B, ICP-AES	0.5	N.D.
Lead (Pb)	mg/kg	USEPA 3050B, ICP-AES	5	N.D.
Mercury (Hg)	mg/kg	USEPA 3502, ICP-AES	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	USEPA 3060, UV-vis	1	N.D.

*** End ***

NOTE: N.D. = Not detected. (<MDL)
 ppm = mg/kg
 MDL = Method Detection Limit
 "-" = No Regulation
 ** = Qualitative analysis (No Unit)
 Negative = Undetectable / Positive = Detectable

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18-34, Sanbon-dong, Guro-gu, Gyeonggi-do, Korea 435-040 t +82 (0)31 428 5111 f +82 (0)31 427 2314 www.sgs-lab.co.kr
 1002 2, Hwasan-ri Onsan-eub, Ulsan-gun, Ulsan, Korea 689 890 t +82 (0)52 239 6908-10 f +82 (0)52 239 6913



Test Report No. F690501/LF-CTSGP06-0418

Date: January 11, 2006

Page 1 of 3

To: **BOGO CHEMICAL CORPORATION**
123-4
Samsung-dong
Gangnam-gu
SEOUL
Korea

The following merchandise was submitted and identified by the client as :

Commodity : AP-210 (DAIKIN)
SGS File No. : GP06-0418
Received Date : January 06, 2006
Test Performing Date : January 09, 2006
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)

Brendan Lee
Monet Jeong
Jully Oh
Jerry Jung
/Testing Person

Jeff Jang / Technical Mgr

SGS Testing Korea Co. Ltd.

Jason Han / Lab Director

**Test Report No. F690501/LF-CTSGP06-0418**

Date: January 11, 2006

Page 2 of 3

Sample No. : GP06-0418.001
 Sample Description : AP-210 (DAIKIN)
 Style/Item No. : N/A
 Comments : Material is PFA RESIN

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium(Cd)	mg/kg	US EPA 3050B(1996), US EPA 6010B(1996)	0.5	N.D.
Lead (Pb)	mg/kg	US EPA 3050B(1996), US EPA 6010B(1996)	5	N.D.
Mercury (Hg)	mg/kg	US EPA 3052(1996), US EPA 6010B(1996)	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	US EPA 3060A(1996), US EPA 7196A(1992)	1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Monobromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	6.10

NOTE: N.D. = Not detected.(<MDL)
 ppm = mg/kg
 MDL = Method Detection Limit
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 ** = Qualitative analysis (No Unit)
 Negative = Undetectable / Positive = Detectable

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Picture of Sample as Received:

*** End ***

NOTE: N.D. = Not detected.(<MDL)
ppm = mg/kg
MDL = Method Detection Limit
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Negative = Undetectable / Positive = Detectable

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Test Report No. F690501/LF-CTSGP05-5552

Date: January 04, 2006

Page 1 of 3

To: **BOGO CHEMICAL CORPORATION**
123-4
Samsung-dong
Gangnam-gu
SEOUL
Korea

The following merchandise was submitted and identified by the client as :

Commodity : NP-21 (DAIKIN)
SGS File No. : GP05-5552
Received Date : January 02, 2006
Test Performing Date : January 03, 2006
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)

SGS Testing Korea Co. Ltd.

Jason Han / Lab Director

Jeff Jang / Technical Mgr

**Test Report No. F690501/LF-CTSGP05-5552**

Date: January 04, 2006

Page 2 of 3

Sample No. : GP05-5552.001
 Sample Description : NP-21 (DAIKIN)
 Style/Item No. : N/A
 Comments : Material is FEP Resin.

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium(Cd)	mg/kg	EN 1122(2001), US EPA 6010B(1996)	0.5	N.D.
Lead (Pb)	mg/kg	US EPA 3050B(1996), US EPA 6010B(1996)	5	N.D.
Mercury (Hg)	mg/kg	US EPA 3052(1996), US EPA 6010B(1996)	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	US EPA 3060A(1996), US EPA 7196A(1992)	1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Monobromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.

NOTE: N.D. = Not detected.(<MDL)
 ppm = mg/kg
 MDL = Method Detection Limit
 "-" = No Regulation
 ** = Qualitative analysis (No Unit)
 Negative = Undetectable / Positive = Detectable

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Picture of Sample as Received:



*** End ***

NOTE: N.D. = Not detected.(<MDL)
ppm = mg/kg
MDL = Method Detection Limit
"-." = No Regulation
** = Qualitative analysis (No Unit)
Negative = Undetectable / Positive = Detectable

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Test Report

No.: GZSGR050640653/LP

Date: JUN 27, 2005

Page 1 of 2

PIN SHINE ELECTRONIC & PLASTIC PRODUCTS (DONGGUAN) CO., LTD.
WEST PART OF LIU WU INDUSTRIAL AREA,
SAN HENG ROAD, NEW DISTRICT OF SHI JIE TOWN,
DONG GUAN CITY, GUANG DONG PROVINCE

Report on the submitted sample said to be CD-01

SGS Ref No. : GZML05062383
Sample Receiving Date : JUN 21, 2005
Testing Period : JUN 21, 2005 TO JUN 26, 2005

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.
(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : (1) Lead content - with reference to EPA method 3050B: 1996.
Cadmium content - with reference to BS EN1122: 2001 method E.
Mercury content - with reference to EPA 3052: 1996.
Hexavalent Chromium content - with reference to EPA 3060A & EPA 7196A.
Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.
(2) With reference to SGS in-house method. Analysis was performed by GC/MS.

RESULTS : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.

Zhang Li, Amy
Sr. Engineer

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GZCM 248258



Test Report

No.: GZSCR050640653/LP

Date: JUN 27, 2005.

Page 2 of 2

Results :

(1)

	Black plastic part
Lead Content (Pb)	N.D.
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Note : - N.D. = Not Detected (< 2 ppm)
 - ppm = mg/kg

(2)

Flame Retardants	Black plastic part	Detection Limit (ppm)
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	5
Dibromobiphenyl	N.D.	5
Tribromobiphenyl	N.D.	5
Tetrabromobiphenyl	N.D.	5
Pentabromobiphenyl	N.D.	5
Hexabromobiphenyl	N.D.	5
Heptabromobiphenyl	N.D.	5
Octabromobiphenyl	N.D.	5
Nonabromodiphenyl	N.D.	5
Decabromodiphenyl	N.D.	5
Polybrominated Diphenylethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5
Dibromodiphenyl ether	N.D.	5
Tribromodiphenyl ether	N.D.	5
Tetrabromodiphenyl ether	N.D.	5
Pentabromodiphenyl ether	N.D.	5
Hexabromodiphenyl ether	N.D.	5
Heptabromodiphenyl ether	N.D.	5
Octabromodiphenyl ether	N.D.	5
Nonabromodiphenyl ether	N.D.	5
Decabromodiphenyl ether	N.D.	5

Note : - N.D. = Not Detected (< 5 ppm)
 - ppm = mg/kg

*** End of Report ***

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GZCM 248321



Test Report

No.: GZSCR050640856/LP

Date: JUN 27, 2005

Page 1 of 2

PIN SHINE ELECTRONIC & PLASTIC PRODUCTS (DONGGUAN) CO., LTD.
WEST PART OF LIU WU INDUSTRIAL AREA,
SAN HENG ROAD, NEW DISTRICT OF SHI JIE TOWN,
DONG GUAN CITY, GUANG DONG PROVINCE

Report on the submitted sample said to be CD-05

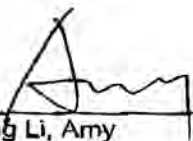
SGS Ref No. : GZML06062386
Sample Receiving Date : JUN 21, 2005
Testing Period : JUN 21, 2005 TO JUN 26, 2005

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.
(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : (1) Lead content - with reference to EPA method 3050B: 1996.
Cadmium content - with reference to BS EN1122: 2001 method B.
Mercury content - with reference to EPA 3052: 1995.
Hexavalent Chromium content - with reference to EPA 3060A & EPA 7196A.
Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.
(2) With reference to SGS in-house method. Analysis was performed by GC/MS.

RESULTS : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.



Zhang Li, Amy
Sr. Engineer

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GZC 248259



Test Report

No.: GZSCR050640656/LP

Date: JUN 27, 2005

Page 2 of 2

Results :

(1)

Black plastic part

Lead Content (Pb)	N.D.
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Note : - N.D. = Not Detected (< 2 ppm)
 - ppm = mg/kg

(2)

Flame Retardants	Black plastic part	Detection Limit (ppm)
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	5
Dibromobiphenyl	N.D.	5
Tribromobiphenyl	N.D.	5
Tetrabromobiphenyl	N.D.	5
Pentabromobiphenyl	N.D.	5
Hexabromobiphenyl	N.D.	5
Heptabromobiphenyl	N.D.	5
Octabromobiphenyl	N.D.	5
Nonabromodiphenyl	N.D.	5
Decabromodiphenyl	N.D.	5
Polybrominated Diphenylethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5
Dibromodiphenyl ether	N.D.	5
Tribromodiphenyl ether	N.D.	5
Tetrabromodiphenyl ether	N.D.	5
Pentabromodiphenyl ether	N.D.	5
Hexabromodiphenyl ether	N.D.	5
Heptabromodiphenyl ether	N.D.	5
Octabromodiphenyl ether	N.D.	5
Nonabromodiphenyl ether	N.D.	5
Decabromodiphenyl ether	N.D.	5

Note : - N.D. = Not Detected (< 5 ppm)
 - ppm = mg/kg

*** End of Report ***

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GZCR 248285

Test Report

No. SH533383/CHEM

Date: 6.7.2005

Page 1 of 2

KUNSHAN XIANGXIN PRECISION MOLD CO., LTD
HUGUANG DONG ROAD, NANGANG, ZHANG PU, KUNSHAN

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

Sample Name : FIXED BASE
SGS Ref No. : SHEC0050612569-1
Buyer : WHA YU INDUSTRIAL CO., LTD
Model : $\Phi 13 \times 25.3$ mm
Material : PBT 310

Sample Receiving Date : June 02, 2005
Testing Period : June 02 to June 07, 2005

Test Requested : 1) To determine the Cadmium Content of the submitted sample.
2) To determine the Lead content of the submitted sample.
3) To determine Mercury Content of the submitted sample.
4) To determine Hexavalent Chromium content of the submitted sample.
5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs)
(Polybrominated biphenyl ethers) Content of the submitted sample.

Test method : 1) With reference to BS EN 1122:2001, Method B
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
2) With reference to US EPA Method 3050B
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
3) With reference to US EPA 3052/EPA7473
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES)/Hg Analyzer.
4) With reference to US EPA3060A and US EPA7196A
Analysis was performed by UV-VIS Spectrometric method.
5) With reference to USEPA 8081/8270C/3540C/3550B, Analysis was performed by GC/MS.

Test Results : Please refer to next page

Signed and on behalf of
SGS-CSTC Chemical Laboratory



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SHCH 274892

Test Results :

No.	Item	Unit	MDL	A
1	Cadmium (Cd)	ppm	2	N.D.
2	Lead (Pb)	ppm	2	40
3	Mercury (Hg)	ppm	2	N.D.
4	Hexavalent Chromium (Cr VI)	ppm	2	N.D.
5	PBBs(Polybrominated biphenyls)	---	---	---
	PBBs(Bromobiphenyl)	ppm	5	N.D.
	PBBs(Dibromobiphenyl)	ppm	5	N.D.
	PBBs(Tribromobiphenyl)	ppm	5	N.D.
	PBBs(Tetrabromobiphenyl)	ppm	5	N.D.
	PBBs(Pentabromobiphenyl)	ppm	5	N.D.
	PBBs(Hexabromobiphenyl)	ppm	5	N.D.
	PBBs(Heptabromobiphenyl)	ppm	5	N.D.
	PBBs(Octabromobiphenyl)	ppm	5	N.D.
	PBBs(Nonabromobiphenyl)	ppm	5	N.D.
	PBBs(Polybrominated biphenyls)	ppm	5	N.D.
	PBBEs(PBDEs)(Polybrominated biphenyl ethers)	---	---	---
	PBBEs(PBDEs)(Monobromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Dibromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Tribromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Tetrabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Pentabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Hexabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Heptabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Octabromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Nonabromobiphenyl ether)	ppm	5	N.D.	
PBBEs(PBDEs)(Decabromobiphenyl ether)	ppm	5	N.D.	

Sample Appearance Description:

A. Black plastic

Note : ppm=mg/kg

MDL= Method Detection Limit

N.D. = Not detected. (<MDL)

*** End of Report ***

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SHCH 274891



Test Report

No.: GZML060201325

Date: FEB 24, 2006

Page 1 of 2

ZHONG SHAN SHI YANG METAL PRODUCTS CO., LTD.
THE THIRD INDUSTRIAL AREA, NAN LANG TOWN, ZHONG SHAN CITY, GUANGDONG PROVINCE,
P.R. CHINA

Report on the submitted sample said to be COPPER (铜棒) C3804

SGS Ref No. : GZ0602015827/CHEM

Sample Receiving Date : FEB 17, 2006

Testing Period : FEB 17, 2006 TO FEB 23, 2006

Test Requested : (1) As specified by client, to determine the Lead, Cadmium & Mercury content in the submitted sample.
(2) Determination of the presence of Hexavalent Chromium Cr(VI) in the submitted metallic samples.

Test Method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.
Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.
Mercury content - With reference to EPA 3052. 1996 / 7473: 1998 / other acid digestion.
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).
(2) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 - Boiling-water-extraction method)

Results : Please refer to next page

Signed for and on behalf of
SGS-CSTC Ltd.

Cathy Peng
Tech Engineer

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Address: 861000 Guangdong Province, Guangzhou City, Guangzhou Science and Technology Park, No. 861
Tel: (86) 20 82113369 Fax: (86) 20 82113368
E-mail: sgschina@sgs.com.cn www.sgs.com.cn

Feb. 25 2006 10:49 P2

FROM: SHIYANG METAL PRODUCTS CO., LTD
FAX NO.: 0760 5214769

Member of the SGS Group (SGS) Group

MAR-16-2006 16:40 FROM:

Test Report

No.: GZML060201325

Date: FEB 24, 2003 Page 2 of 2

Results:

(1)

Lead Content (Pb)(ppm)
Cadmium Content (Cd)(ppm)
Mercury Content (Hg)

Golden metal rod
3.10x10⁻⁴
19
N.D.

Note: - N.D. = Not Detected (< 2 ppm)
- ppm = mg/kg

(2)

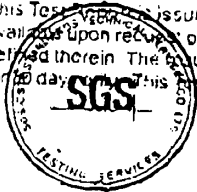
Hexavalent Chromium Content [Cr(VI)]

Golden metal rod
Negative

Note: - Negative means the concentration of Hexavalent Chromium extracted from 50cm² sample is less than the detection limit.
- Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm² sample surface area by boiling-water-extraction method

*** End of Report ***

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Tel: +86-21-20131999 Fax: +86-21-20131998
E-mail: china@sgs.com Website: www.sgs.com

(AS SGS) Group SGS eqi lo requiam

Feb. 25 2003 10:50

FRX NO. : 0760 S214769

FROM : SHIYANG METAL PRODUCTS CO., LTD

MAR-16-2006 16:40 FROM:



Test Report

No.: SZTYR050305623/LP

Date: MAR 10, 2005

Page 1 of 1

YING SHENG (XIN HE) ELECTRONICS & PLATING CO., LTD.
FENG HUANG SHAN SHA JIAO, HUMEN, DONGGUAN

Report on the submitted sample said to be 镀锌

Buyer : 索尼
Sample Receiving Date : MAR 04, 2005
Testing Period : MAR 05, 2005 TO MAR 09, 2005

Test Requested : To determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : Lead content - with reference to EPA Method 3050B: 1996 / other acid digestion.
Cadmium content - with reference to EN1122: 2001 method B / other acid digestion.
Mercury content - with reference to EPA Method 3052: 1996 / other acid digestion.
Hexavalent Chromium content - with reference to EPA Method 3060A: 1996 / other wet digestion.
Analysis was performed by Atomic Absorption Spectrometer (AAS), Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) and UV-VIS Spectrophotometer.

Results

	Silver color metal parts
Lead Content (ppm)	8
Cadmium Content	N.D.
Mercury Content	N.D.
Hexavalent Chromium Content	N.D.

Note: - N.D. = Not Detected (< 2 ppm)
- ppm = mg/kg
- Results shown are of the total weight of dry sample.

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.



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Test Report

No. SH517723/CHEM

Date: 4.14.2005

Page 1 of 4

FLUOTECH INDUSTRIES CO., LTD.
NO.26, DIN HU 2ST, KNEI-SHAN, TAO YUAN, TAIWAN

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

Sample Name : PTFE ROD
SGS Ref No. : SHEC0050305667
Model : 10mm STICK
Material : PTFE

Sample Receiving Date : March 31, 2005
Testing Period : March 31 to April 14, 2005

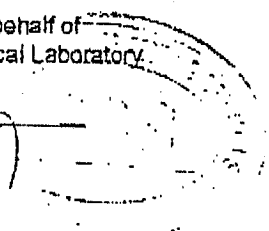
- Test Requested :
- 1) *To determine the Cadmium Content of the submitted sample.
 - 2) *To determine the Lead content of the submitted sample.
 - 3) *To determine Mercury Content of the submitted sample.
 - 4) *To determine Hexavalent Chromium content of the submitted sample.
 - 5) *To determine the PBBs(Polybrominated biphenyls) PBDEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submitted sample.
 - 6) *To determine the PCBs(Polychlorinated Biphenyls) Content of the submitted sample.
 - 7) *To determine the Mirex(CAS NO:002385-85-5) Content of the submitted sample.
 - 8) ***As specified by Client, to detection and determination of certain listed aromatic amines derived from Azo Colorants (EN14362-2:2003).

Test method/Test Results: Please refer to next page

Conclusion : 8) *** According to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected in the commodity submitted.

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Ella Zhang
Supervisor



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SHCH 245801

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Shanghai Branch | 中國·上海·徐匯區宜山路689號3号楼1樓、7樓、9樓、10樓 郵編: 200233 t +86 21 6495 1616*2822 f +86 21 5450 0314 www.cn.sgs.com

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Test Report

No. SH517723/CHEM

Date: 4.14.2005

Page 2 of 4

Test method

- 1) * ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.
- 2) *ICP-AES after reference to US EPA 3050B or other acid digestion.
- 3) *ICP-AES after reference to US EPA 3052 or other acid digestion.
- 4) *UV-VIS after reference to US EPA 3060A.
- 5) *With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)
- 6) *With reference to US EPA 8082. Analysis was performed by GC/MS.
- 7) *Analysis was performed by GC/MS.
- 8) *** Extraction test on coloured textile - Detection of the use of certain azo colorants in fibres with extractable dyes with the use of Gas Chromatographic Mass Spectrometry (GC-MS) / Thin Layer Chromatography (TLC) Technique.

Test Results

No.	Test Item(s):	Unit	MDL	Result
				A
1	Cadmium (Cd) *	ppm	2	N.D.
2	Lead (Pb) *	ppm	2	N.D.
3	Mercury (Hg) *	ppm	2	N.D.
4	Hexavalent Chromium (Cr VI)*	ppm	2	N.D.

5) *PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content

Test Item(s):	Unit	MDL	Result
			A
Monobromobiphenyl	%	0.0005	
Dibromobiphenyl	%	0.0005	N.D.
Tribromobiphenyl	%	0.0005	N.D.
Tetrabromobiphenyl	%	0.0005	N.D.
Pentabromobiphenyl	%	0.0005	N.D.
Hexabromobiphenyl	%	0.0005	N.D.
Heptabromobiphenyl	%	0.0005	N.D.
Octabromobiphenyl	%	0.0005	N.D.
Nonabromobiphenyl	%	0.0005	N.D.
Decabromobiphenyl	%	0.0005	N.D.
Total PBBs (Polybrominated biphenyls)/Sum of above	%	-	N.D.
Monobromobiphenyl ether	%	0.0005	N.D.
Dibromobiphenyl ether	%	0.0005	N.D.
Tribromobiphenyl ether	%	0.0005	N.D.
Tetrabromobiphenyl ether	%	0.0005	N.D.

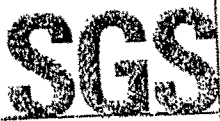
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151005 14 4048

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Singapore Branch, Indong Center, Jurong East, Singapore

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Test Report

No. SH517723/CHEM

Date: 4.14.2005

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Pentabromobiphenyl ether	%	0.0005	N.D.
Hexabromobiphenyl ether	%	0.0005	N.D.
Heptabromobiphenyl ether	%	0.0005	N.D.
Octabromobiphenyl ether	%	0.0005	N.D.
Nonabromobiphenyl ether	%	0.0005	N.D.
Decabromobiphenyl ether	%	0.0005	N.D.
Total PBDEs (pbdes(Polybrominated biphenyl ethers)/Sum of above	%		N.D.

6) *PCBs Content

Test Item (s):	Unit	MDL	Result
			Δ
PCBs(Polychlorinated Biphenyls) (CAS NO:001336-36-3)	ppm	0.5	N.D.

7) *Mirex Content

Test Item (s):	Unit	MDL	Result
			Δ
Mirex (CAS NO:002385-85-5)	ppm	4	N.D.

8) *** To detection and determination of certain listed aromatic amines derived from Azo Colorants (EN14362-2:2003)

No.	Amines Substances	CAS-No.	Result
1.	4-aminodiphenyl/xenylamine/ Biphenyl-4-ylamine	92-67-1	Δ n.d.
2.	Benzidin	92-87-5	n.d.
3.	4-chlor-o-toluidine	95-69-2	n.d.
4.	2-naphthylamine	91-59-8	n.d.
5.	o-aminoazotoluene/ 4-o-tolylazo-o-toluidine/ 4-amino-2',3'-dimethylazobenzene	97-56-3	n.d.
6.	2-amino-4-nitrotoluol/5-nitro-o-toluidine	99-55-8	n.d.
7.	p-chloranilin/4-chloroaniline	106-47-8	n.d.
8.	2,4-diaminoanisol/ 4-methoxy-m-phenylenediamine	615-05-4	n.d.
9.	4,4'-diaminodiphenylmethane/ 4,4'-methylenedianiline	101-77-9	n.d.
10.	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	n.d.
11.	3,3'-dimethoxybenzidine/o-dianisidine	119-90-4	n.d.
12.	3,3'-dimethylbenzidine/4,4'-bi-o-Toluidine	119-93-7	n.d.
13.	3,3'-dimethyl-4,4'-diaminodiphenylmethane/	838-88-0	n.d.

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 SGS S.p.A. - Sede Legale (Sede di Direzione Generale) | 中国上海徐汇区宜山路389号3号楼11楼, 7楼, 9楼, 10楼 邮编: 200233 | +86 21 6495 1616*2822 | +86 21 6450 0314 | www.cn.sgs.com

Member of the SGS Group (Società Genérale de Surveillance)



Test Report

No. SH517723/CHEM

Date: 4.14.2005

Page 4 of 4

	4,4'-methylenedi-o-toluidine		
14.	p-cresidin/6-methoxy-m-toluidine	120-71-8	n.d.
15.	4,4'-methylen-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	n.d.
16.	4,4'-oxydianiline	101-80-4	n.d.
17.	4,4'-thiodianiline	139-65-1	n.d.
18.	o-toluidina/2-aminotoluene	95-53-4	n.d.
19.	2,4-toluylendiamin/ 4-methyl-m-phenylenediamine	95-80-7	n.d.
20.	2,4,5-trimethylaniline	137-17-7	n.d.
21.	4-aminoazobenzene	60-09-3	n.d.
22.	o-anisidine/ 2-methoxyaniline	90-04-0	n.d.
23.	2,4-Xylidin	95-68-1	n.d.
24.	2,6-Xylidin	87-62-7	n.d.

Overall Rating PASS

Note : n.d. = not detectable
 Detection Limit = 5 ppm (mg/kg)
 Requirement: no relevant amine exceeding 30 ppm (mg/kg).

Forbidden Arylamines for Azo Dye Regulation

- [] No. 1-22-Commission of the European Communities: Directive 2002/61/EC adopted by the Council on 19 July 2002
- [] No. 1-20, 22-24- Greening Label: Oko-Tex Standard 100-2002 edition (European Countries)

Remarks : Azo colorants that are able to form 4-aminoazobenzene (CASNr: 60-09-3), generate under the testing condition into aniline and 1, 4-phenylenediamine. The detection of it can only be ascertained with the chemical structure of the colorant used.

Sample Description:

A. White solid

Note : ppm=mg/kg

0.01%= 100ppm

N.D. = Not detected (<MDL)

MDL= Method Detection Limit

"-"= Not Applicable

***These tests were subcontracted to SGS-SHSL TEXTLIE LAB (Date of testing: 2005/03/31-04/04).

* These tests were subcontracted to SGS Taiwan Ltd (Date of testing: 2005/04/04-04/14).

*** End of Report ***

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Test Report

No.: GZML060201325

Date: FEB 24, 2006

Page 1 of 2

ZHONG SHAN SHI YANG METAL PRODUCTS CO., LTD.
THE THIRD INDUSTRIAL AREA, NAN LANG TOWN, ZHONG SHAN CITY, GUANGDONG PROVINCE,
P.R. CHINA

Report on the submitted sample said to be COPPER (铜棒) C3804

SGS Ref No. : GZ0602015827/CHEM

Sample Receiving Date : FEB 17, 2006

Testing Period : FEB 17, 2006 TO FEB 23, 2006

Test Requested : (1) As specified by client, to determine the Lead, Cadmium & Mercury content in the submitted sample.
(2) Determination of the presence of Hexavalent Chromium Cr(VI) in the submitted metallic samples.

Test Method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.
Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.
Mercury content - With reference to EPA 3052. 1996 / 7473: 1998 / other acid digestion.
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).
(2) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 - Boiling-water-extraction method)

Results : Please refer to next page

Signed for and on behalf of
SGS-CSTC Ltd.

Cathy Peng
Tech Engineer

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SGS (China) Co., Ltd. (SGS) 中国有限公司
地址: 中国广东省广州市天河区珠江新城花城大道18号
电话: 020-82027500 020-82027501 020-82027502 020-82027503 020-82027504 020-82027505 020-82027506 020-82027507 020-82027508 020-82027509 020-82027510 020-82027511 020-82027512 020-82027513 020-82027514 020-82027515 020-82027516 020-82027517 020-82027518 020-82027519 020-82027520 020-82027521 020-82027522 020-82027523 020-82027524 020-82027525 020-82027526 020-82027527 020-82027528 020-82027529 020-82027530 020-82027531 020-82027532 020-82027533 020-82027534 020-82027535 020-82027536 020-82027537 020-82027538 020-82027539 020-82027540 020-82027541 020-82027542 020-82027543 020-82027544 020-82027545 020-82027546 020-82027547 020-82027548 020-82027549 020-82027550 020-82027551 020-82027552 020-82027553 020-82027554 020-82027555 020-82027556 020-82027557 020-82027558 020-82027559 020-82027560 020-82027561 020-82027562 020-82027563 020-82027564 020-82027565 020-82027566 020-82027567 020-82027568 020-82027569 020-82027570 020-82027571 020-82027572 020-82027573 020-82027574 020-82027575 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星江电著黑河报

Test Report

No.: GZSCR050421403/LP

Date: APR 28, 2005

Page 1 of 4

DONG GUAN UNIRES CHEMICALS CO., LTD.
HENG TANG MANAGEMENT DISTRICT,
TANG XIA TOWN, DONG GUAN,
GUANG DONG PROVINCE, CHINA

Report on the submitted sample said to be EEB-068A

SGS Ref No. : GZ050403870EC
Sample Receiving Date : APR 13, 2005
Testing Period : APR 13, 2005 TO APR 18, 2005

Test Requested : As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test method : Cadmium content : With reference to BS EN 1122:2001 Method B see flowchart (1).
Lead content : Ashing after wet decomposition see flowchart (2).
Mercury content - With reference to EPA 3052: 1996.
Hexavalent Chromium content - with reference to EPA 3060A: 1996 & EPA 7196A: 1992 .
Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.

Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.


He Xiaoyan, Jane
Tech. Manager

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4F, Block 1, Guangzhou Financial Park, Lingnan Road, Zhuhan Street, Pu Area, Tianhe District, Guangzhou, China 510660 t: 86-20-32199999 f: 86-20-32199559 www.sgs.com
天津分公司 天津市东丽区东丽镇村灵山路裕景工业园八栋五楼 邮编 510660 t: 86-22-62791100 f: 86-20182138559 a: sgs@cn.sgs.com

Member of SGS S.p.A. (Societe Generale de Surveillances)



Test Report

No.: GZSCR050421403/LP

Date: APR 26, 2005

Page 2 of 4

Results :

	Black wet paint
Lead Content (Pb)	N.D.
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Note : - N.D. = Not Detected (< 2 ppm)
- ppm = mg/kg

*** End of Report ***

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Test Report

No. GZSCR060421403/LP

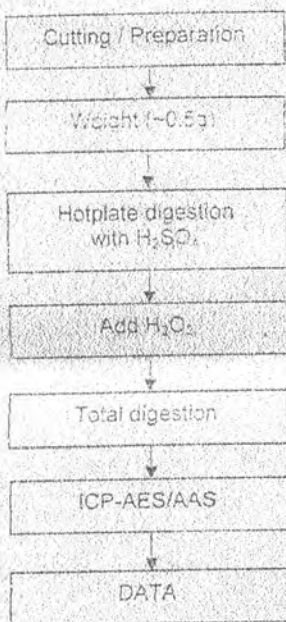
Date: APR 23, 2006

Page 5 of 9

ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content):



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

Operator : Sams Deng
Leader : Joe Li

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Test Report

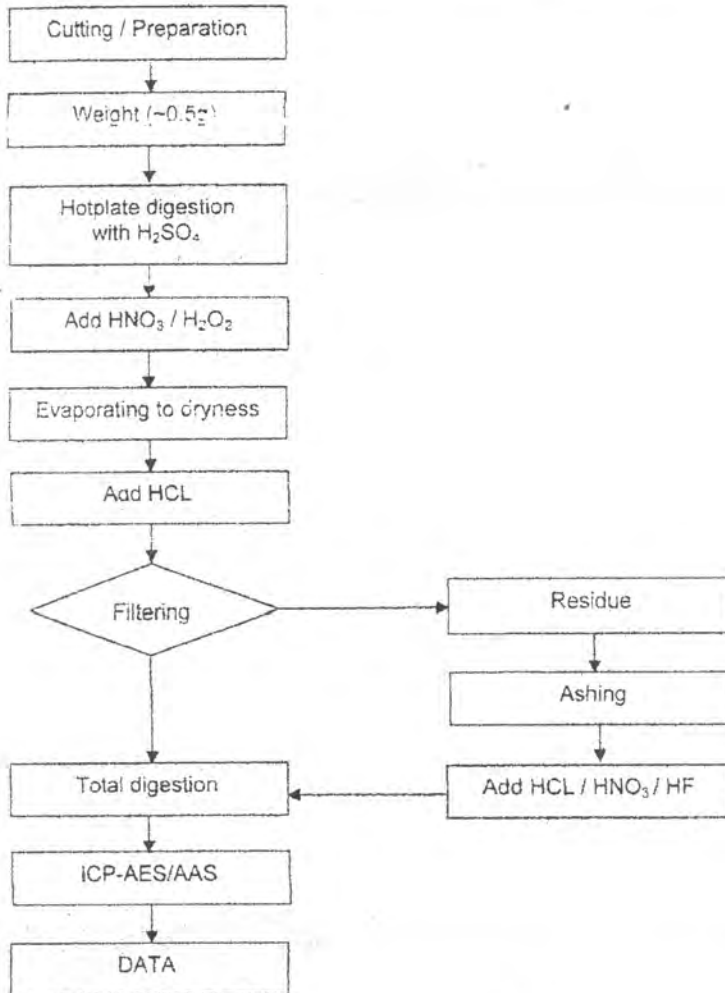
No.: GZSCR050421403/LP

Date: APR 28, 2005

Page 4 of 4

(2)

Flow chart of digestion (wet decomposition and ashing) (Lead content) :



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

Operator : Vincent Li
Leader : Adams Yu

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4/F, Block 6, Yu Jing Industrial Park, Ling Shan Road, Zhu Cui Dong Pu Area, Tianhe District, Guangzhou, China 510660 Tel: (86-20) 82169100 Fax: (86-20) 82167558
中国·广州·天河区东圃珠村灵山路裕康工业园八栋四楼 邮编: 510660 电话: (86-20) 82169100 传真: (86-20) 82167558

Member of SGS Group (Société Générale de S...)



To: 李小姐

Test Report

No. 2054827/EC

Date: Mar 08 2006

Page 1 of 2

SAMLUNG PRECISION METAL PLATING FACTORY SHENZHEN CHINA
XING YE XI YI ROAD, SHAJING TOWN, SHENZHEN, CHINA

Report on the submitted sample said to be 五金件鍍金.

SGS Job No. : 1990289
 SGS Ref. No. : SZECD060207466RS-4.4
 Buyer : SONY
 Sample Receiving Date : MAR 02 2006
 Testing Period : MAR 02 - 08 2006

- Test Requested :
- 1) To determine the Cadmium content in the submitted sample.
 - 2) To determine the Lead content in the submitted sample.
 - 3) To determine the Mercury content in the submitted sample.
 - 4) Determination of the presence of Hexavalent Chromium Cr(VI) in the submitted metallic samples.

Test Method :

- 1-3) With reference to SGS in-House Method. The sample was digested by acid. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
- 4) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 - Boiling-water-extraction method)

Test Results	Test Item	1	Detection Limit
1)	Cadmium (Cd) Content	ND	2 ppm
2)	Lead (Pb) Content	13 ppm	2 ppm
3)	Mercury (Hg) Content	ND	2 ppm

(Results shown are of the total weight of samples)

Notes : ppm = mg/kg
 ND = Not Detected
 Not detected is reported when the reading is less than detection limit value


4) 1
 Hexavalent Chromium [Cr(VI)] Negative

Note : - Negative means the concentration of Hexavalent Chromium extracted from 50 cm² sample surface area is less than the detection limit
 - Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50 cm² sample surface area by boiling-water-extraction method

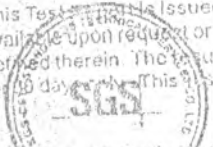
Sample Description :
 1. Coppery Metal w/ Golden Coating

Remark : Test was conducted in SGS Hong Kong Limited

Signed for and on behalf of
SGS Hong Kong Ltd


 Ho Ka Tung, Family
 Laboratory Executive

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SZE 138068



70.1.1.1

Test Report

No. 2054838/EC

Date : Mar 08 2006

Page 1 of 2

SAMLUNG PRECISION METAL PLATING FACTORY SHENZHEN CHINA
XING YE XI YI ROAD, SHAJING TOWN, SHENZHEN, CHINA

Report on the submitted sample said to be 五金件鍍銀.

SGS Job No. : 1990319
 SGS Ref. No. : SZECO06020746GRS-4.1
 Buyer : SONY
 Sample Receiving Date : MAR 02 2006
 Testing Period : MAR 02 - 03 2006

Test Requested : 1) To determine the Cadmium content in the submitted sample.
 2) To determine the Lead content in the submitted sample.
 3) To determine the Mercury content in the submitted sample.
 4) Determination of the presence of Hexavalent Chromium Cr(VI) in the submitted metallic samples.

Test Method : 1-3) With reference to SGS In-House Method. The sample was digested by acid. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
 4) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 - Boiling-water-extraction method)

Test Results	Test Item	1	Detection Limit
1)	Cadmium (Cd) Content	ND	2 ppm
2)	Lead (Pb) Content	16 ppm	2 ppm
3)	Mercury (Hg) Content	ND	2 ppm

(Results shown are of the total weight of samples)

Notes : ppm = mg/kg
 ND = Not Detected
 Not detected is reported when the reading is less than detection limit value

4) 1
 Hexavalent Chromium [Cr(VI)] Negative

Note : - Negative means the concentration of Hexavalent Chromium extracted from 50 cm² sample surface area is less than the detection limit
 - Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50 cm² sample surface area by boiling-water-extraction method

Sample Description :
 1. Coppery Metal w/ Silvery Coating

Remark : Test was conducted in SGS Hong Kong Limited

Signed for and on behalf of
SGS Hong Kong Ltd

Ho Ka Ting, Family
Laboratory Executive

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SZE 138061



Test Report

No.: GZ0602013169/CHEM

Date: FEB 17, 2006

Page 1 of 1

SHEN ZHEN HUEYNITEH CO. LTD

5/F BUILDING, BAI SHI ZHOU YUAN ZINENG INDUSTRIAL ZONE, SHAHE TOWN, SHEN ZHEN CITY

Report on the submitted sample said to be 黄铜管

SGS Ref No. : SZ060204487RS-4.1
 Material : Cu
 Buyer : SONY
 Sample Receiving Date : FEB 13, 2006
 Testing Period : FEB 13, 2006 TO FEB 17, 2006

Test Requested : As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method
 Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.
 Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.
 Mercury content - With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion.
 Hexavalent Chromium content - With reference to EPA 3060A : 1996 & EPA 7196A : 1992
 Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS Spectrophotometer.

Results

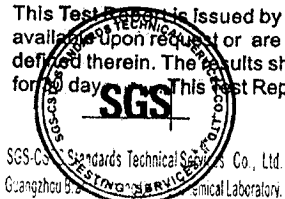
Item	Unit	MDL	Golden metal
Lead Content (Pb)	ppm	2	186
Cadmium Content (Cd)	ppm	2	N.D.
Mercury Content (Hg)	ppm	2	N.D.
Hexavalent Chromium (Cr VI)	ppm	2	N.D.

Note : - N.D. = Not Detected (< MDL)
 - MDL= Method Detection Limit
 ppm = mg/kg

Signed for and on behalf of SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer

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Member of the SGS Group (SGS SA)



Test Report

No: GZSC051191692/LP

Date: NOV 29, 2005

Page 1 of 2

NEW-MINGTAI ELECTRONIC HARDWARE ELECTROPLATE FACTORY
OLD VILLAGE HALL (LAOXIANGFU), TONG-LE VILLAGE, LONG-GANG TOWN, SHENZHEN

Report on the submitted sample said to be 锡/锡膏/GP Sn


SGS Ref No. : SZ051125313EC-3.1
Sample Receiving Date : NOV 23, 2005
Testing Period : NOV 23, 2005 TO NOV 29, 2005

Test Requested (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.
(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method (1) Lead content: - With reference to EPA method 3050B: 1995 / other acid digestion.
Cadmium content: - With reference to BS EN1122: 2001 method B / other acid digestion.
Mercury content: - With reference to EPA 1631: 1995 / 7473: 1995 / other acid digestion.
Hexavalent Chromium content: - With reference to ISO 3513: 2000 (Clause 6.6)
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.
(2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS

RESULTS Please refer to next page

Signed for and on behalf of
SGS-CSTC Ltd.


Jiang Li Amy
Sr. Engineer

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GZCM 379029



Test Report

No.: GZSCR051191692/LP

Date: NOV 29, 2005

Page 2 of 2

Results :

(1)

Item	Unit	MDL	Silver metal part
Lead Content (Pb)	ppm	2	23
Cadmium Content (Cd)	ppm	2	N.D.
Mercury Content (Hg)	ppm	2	N.D.
Hexavalent Chromium (Cr VI)	µg/cm ²	0.02	N.D.

Note : - N.D. = Not Detected (< MDL)
 - MDL = Method Detection Limit
 - ppm = mg/kg

(2)

	Silver metal part
Flame Retardants	
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.
Polybrominated Diphenylethers (PBDEs)	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note : - N.D. = Not Detected (< 5 ppm)
 - ppm = mg/kg

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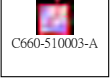


Component Vendor Self-Assessment Checklist for Green ASUS survey form

For complex component

Version 1.03

製造廠商/Vendor name	謙裕實業	填表人員/The Name of Person to fill up this	RD-JANE
華碩料號/ASUS Part No.	14G150001000	品名規格/Part Name	RF Antenna Assembly
廠商料號/Manufacture P/N	C660-510003-A	送件日期/The Date to fill in this form	2006.03.23

請確認是否準備齊全下列文件:

Green ASUS survey form 必備文件及詳細Check List					
Item	GA survey form 需附文件	附註檔案/Attached file	注意事項 (需確實填寫) 並確認填寫完整後, 請在框中打勾/Please make sure the all items of every section had been finished.		
1	Certificate for Approval /不使用禁用物質證明書 (承認用)	 C660-510003-A	<input checked="" type="checkbox"/> a. 需填寫日期 / Date <input checked="" type="checkbox"/> b. 需填寫供應商編號 / Vendor Code <input checked="" type="checkbox"/> c. 需填寫公司名稱 / Company name <input checked="" type="checkbox"/> d. 需填寫負責人姓名 / Responsible-person name <input checked="" type="checkbox"/> e. 需填寫電子郵件 / E-mail <input checked="" type="checkbox"/> f. 需填寫零件品名 / Part name <input checked="" type="checkbox"/> g. 需填寫ASUS料號 / ASUS Part Number <input checked="" type="checkbox"/> h. 需填寫零件廠商料號 / Part Number <input checked="" type="checkbox"/> i. 需填寫零件生產地點 / Production plant <input checked="" type="checkbox"/> j. 需蓋公司章在右上方處 / Company's stamp in the right upper side <input checked="" type="checkbox"/> k. 需請負責人蓋章或簽名在上方處 / Signature of responsible-person in the upper side		
2	Composition table and 3rd party test report /零件成分表及第三公正單位測試報告	 零件成分表C660-510003-A	需填寫組成成份 / Compositions : <input checked="" type="checkbox"/> a. 使用部位 / The position for use <input checked="" type="checkbox"/> b. 原材料名 / Raw materials <input checked="" type="checkbox"/> c. 材料編號 / Material No. <input checked="" type="checkbox"/> d. 生產廠家 / Vendor <input checked="" type="checkbox"/> e. 第三公正單位測試報告 / 3rd party test report		
3	GAC survey file /GAC調查檔案	 無鉛調查表C660-510003-A	<input checked="" type="checkbox"/> 此料件完全不需經過SMD與DIP製程 / Will not pass any reflow and wave-soldering process (如確認該料件完全不需經過SMD及DIP製程, 不須填寫選項e及f / If this part will not pass reflow and wave-soldering process, please skip the items e and f.) <table border="1" style="float: right; margin-left: 20px;"> <tr> <td style="width: 50px; height: 20px;"></td> <td style="width: 50px; height: 20px;"></td> </tr> </table> <input checked="" type="checkbox"/> a. 需填寫ASUS料號 / ASUS part number <input checked="" type="checkbox"/> b. 需填寫品名規格 / Part component name <input checked="" type="checkbox"/> c. 需填寫外部電極&引線端子組成狀況 / Composition of electrode & Leading terminal : 狀態 / Status <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E (Please refer to Note) 預定導入日期 / Deadline : _____ <input checked="" type="checkbox"/> d. 需填寫零件本體組成狀況 / Composition inside part component : 狀態 / Status <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E (Please refer to Note) 預定導入日期 / Deadline : _____ <input checked="" type="checkbox"/> e. SMD件環境溫度耐熱調查 / SMD heat resistance capability : <input checked="" type="checkbox"/> (1) 不需過reflow 製程, 不須填寫選項(2)及(3)/Will not pass reflow process, you can skip following items (2) and (3). (2) 瞬間溫度260度 /Peak Temp endure 260°C <input type="checkbox"/> Y <input type="checkbox"/> N (3) 環境溫度維持225度60秒 / Reflow Temp endure > 225°C, 60 sec <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> f. DIP件耐溫標準, 塑膠部分在過錫爐時, 錫液和塑膠是否為 / DIP Plastic heat resistance capability : <input checked="" type="checkbox"/> (1) 不需過波焊製程, 不須填寫選項(2), (3)及(4) /Will not pass wave-soldering process, you can skip following items (2), (3) and (4). (2) 直接接觸需承受270度5秒 / Direct contact 270°C, 5 sec <input type="checkbox"/> Y <input type="checkbox"/> N (3) 間接接觸需承受230度5秒 / In-direct contact 230°C, 5 sec <input type="checkbox"/> Y <input type="checkbox"/> N (4) 完全不接觸需承受130度5秒 / no contact 130°C, 5 sec <input type="checkbox"/> Y <input type="checkbox"/> N		
4	Others /其他需求				