WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE) DONGGUAN AEON TECH CO.,LTD.(CHINA) SUZHOU AEON TECH CO.,LTD.(CHINA)

AEON TECH (SHANGHAI) CO.,LTD.(CHINA)

DONGGUAN PARNER TECH CO.,LTD.(CHINA) **DONGGUAN PARNER TECH CO.,LTD.(CHINA)** 

#### SPECIFICATION FOR APPROVAL

**CUSTOMER:** 永洋科技股份有限公司

PART NAME: PIFA Antenna

11320Y11030A1 **REVISION:** PART NO.:

W. Y. P/NO.: C381-510137-A(SSR-83208) REV.: X1

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY:	Romed富能議	
DATE :	%。四個調團	

#### WHA YU GROUP

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2.		成品圖	2
3.		測試報告	3~7
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5.		SGS測試	11~31
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#### **PIFA Antenna**

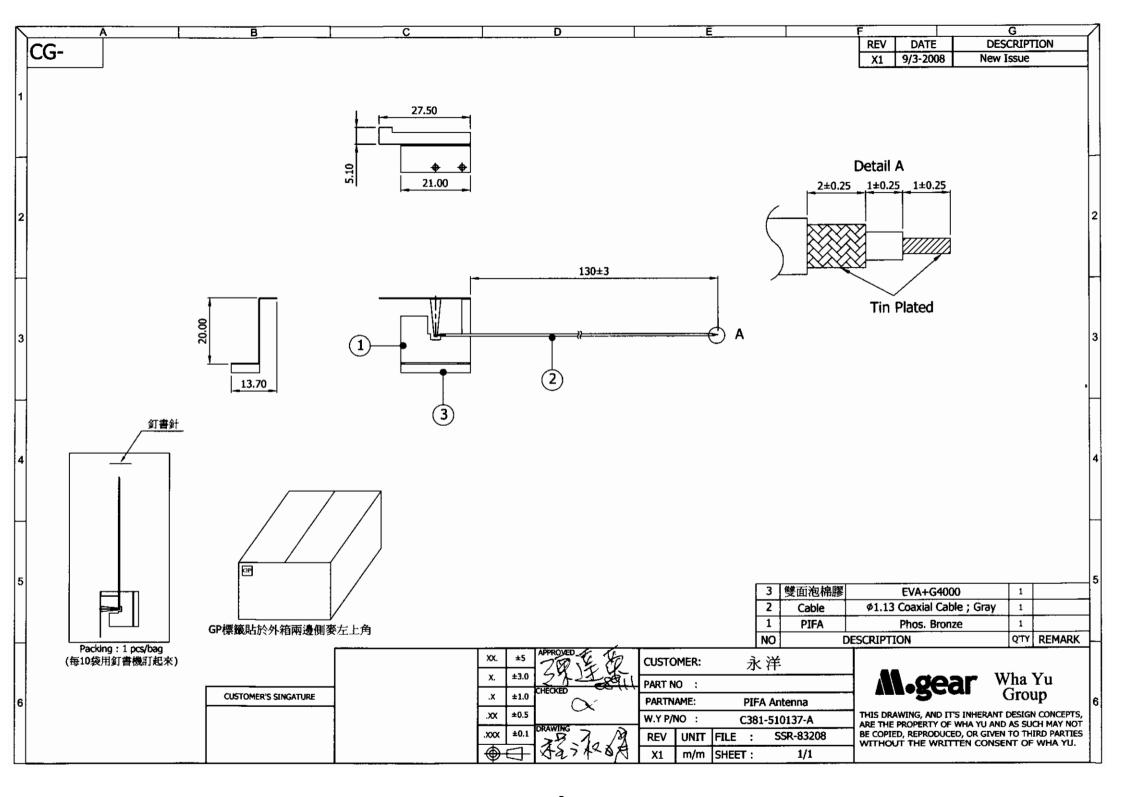
### **Specification**

1. Electrical Properties: (With Housing)

- 2. Physical Properties:
  - 2.1 Operating Temp. .....  $-20^{\circ}$ C  $\sim +65^{\circ}$ C

1.10 Cable......  $\phi$  1.13 Coaxial Cable

2.2 Storage Temp. .....  $-30^{\circ}$ C  $\sim +75^{\circ}$ C

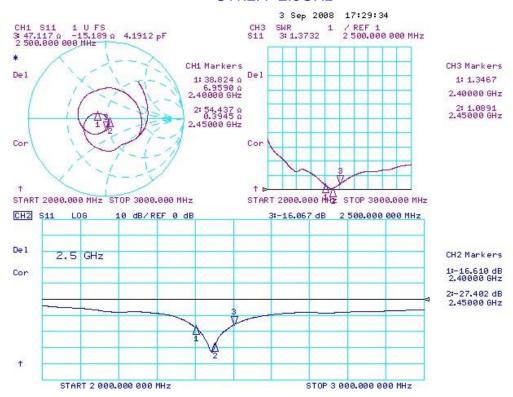


### RF Antenna Assembly

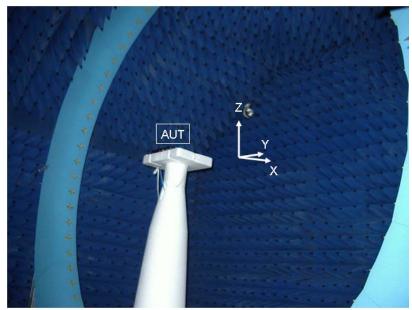
P/NO: C381-510137-A (SSR-83208)

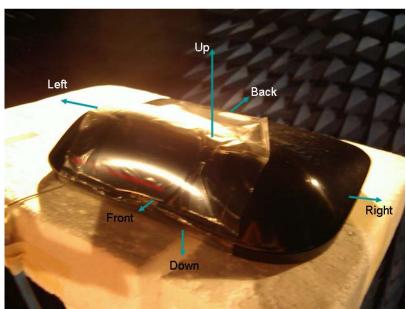
SPEC: 2.4GHz~2.5GHz

#### S11:2.4~2.5GHz

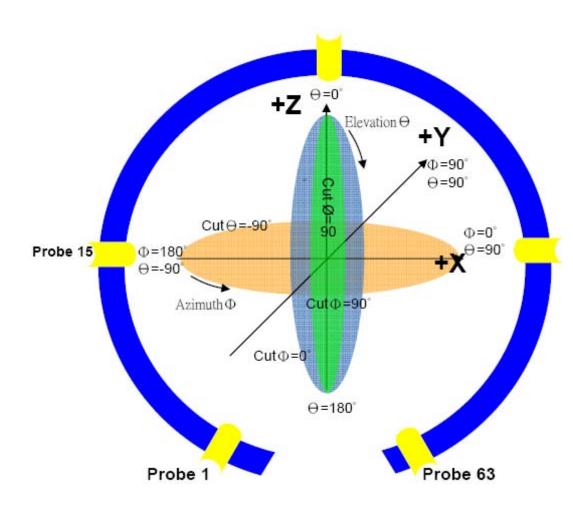


### Measurement location of the antenna





	XY	YZ	XZ
0°	Right	Up	Up
90°	Back	Back	Right
180°	Left	Down	Down
270°	Front	Front	Left

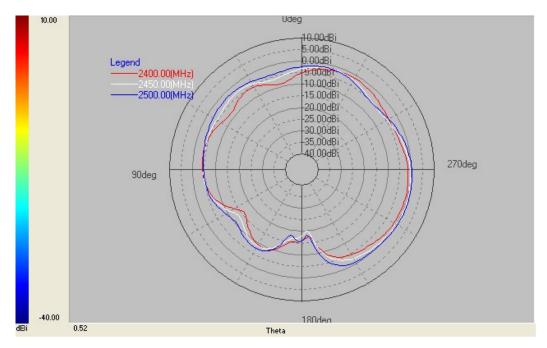


	$\theta$	$\varphi$
Total angle	175°	360°
How many angle scan one point	5°	5°
Total scan point	36	73

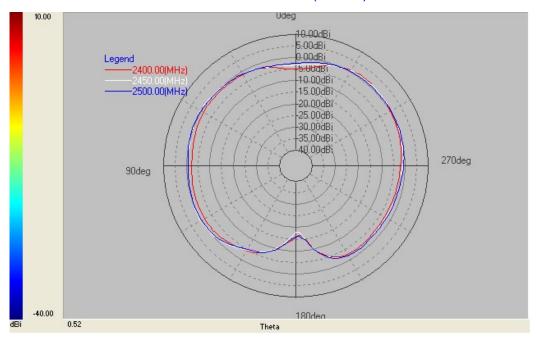


### 2D patterns

#### 2.4~2.5GHz

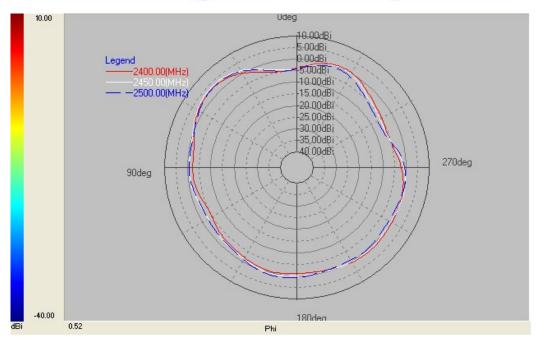


X-Z Plane (E-total)



Y-Z Plane (E-total)

# M.gear Wha Yu Group



X-Y Plane (E-total)

#### **Return Loss**

	PIFA (dB)
2.4GHz	-16.6
2.45GHz	-27.4
2.5GHz	-16.1

### 3D total Peak Gain & Efficiency

Frequency	PIFA		
	Peak Gain (dBi)	Efficiency (%)	
2.4GHz	2.9	64	
2.45GHz	3.4	68	
2.5GHz	2.8	65	

Date: 2005/02/02

Our Spec. No. WS05-M016

MESSRS.

#### **SPECIFICATION**

**FOR** 

#### HIGH FREQUENCY COAXIAL CABLE

"KHCX - 32AWG - SB - TA\* GRAY

SHOWA ELECTRIC WIRE & CABLE CO., LTD.

**TORANOMON** 

TOKYO JAPAN

T. Mori

Manager, Engineering Section

J. mori

Engineering Dept. Electronic Wire Business Unit

#### 1. 適用(SCOPE)

本仕様書は電子機器などの内部配線に使用される細径同軸 "KHCX-32AWG-SB-TA" の構造と特性につい

This specification covers the construction and characteristics of coaxial cable "KHCX-32AWG-SB-TA" for internal wiring of electronic equipment.

#### 2. ケーブル型名の説明 (EXPLANATION OF CABLE TYPE)

 $\frac{\text{KHCX} - 32\text{AWG} - \text{SB} - \text{TA}}{(1) \quad (2) \quad (3) \quad (4)}$ 

- (1) ケーブル略称 (Cable Abbreviation)
- (2) 導体サイズ (Conductor Size)
- (3) Inner Conductor Type (4) Outer Conductor Type.

#### 3. 構造(CONSTRUCTION)

Ą		要求特性
It	tem	Requirement
	材質	銀めっき軟銅線
	Material	Silver coated annealed copper wire
内部導体	構成	7/0.08mm
Inner conductor	Stranding	7/0.08mm
	外径	標準 0.24mm
	Diameter	Nom. 0.24mm
	材質	FEP
	Material	rix
	色別	自然色
絶縁体	Color	Natural
Insulation	厚さ	標準 0.22mm
	Thickness	Nom. 0.22mm
	外径	0.68 +0.04/ -0.02mm
	Diameter	
	材質	錫めっき銅合金線編組
	Material	Tinned copper alloy wire braid shield
外部導体	構成	16/4/0.05 mm
Outer conductor	Stranding	10/ DVIO IIII
	編組密度	A 000/
	Coverage	Approx. 90%
	材質	FEP
	Material	
シース	色別	灰・白・黒
Sheath	Color	Gray · White · Black
	厚さ	標準 0.10mm
J. ( 41 07	Thickness	Nom. 0.10mm
仕上外径		1.13mm +0.08/ -0.05mm
Overall diameter		
概算質量		3 kg/km
Approximate mass		

#### 4. 特性 (CHARACTERISTICS)

項目	単位	要求特性	
Item	Unit	Requirements	
導体抵抗		597以下 (20℃)	
Conductor Resistance	Ω/km	Max. 520 (at 20°C)	
絶縁抵抗		1,500 以上 (DC 500V 1 分間充電後,20℃)	
Insulation Resistance	MΩkm	Min. 1,500 (After charge DC 500V for 1 min. at 20°C)	
		絶縁体: AC.1.5kV/0.15 秒間(スパークテスト)	
		Dielectric core: No breakdown at AC.1.5kV for 0.15sec by spark test.	
実し際にて		シース:AC.1.5kV/0.15 秒間(スパークテスト)	
耐電圧 Dialactuia Stuameth	-	Jacket: No breakdown at AC.1.5kV for 0.15sec by spark test.	
Dielectric Strength		内部導体-外部導体間:AC.500V/1 分間	
		No breakdown at AC.500V for 1 min between outer conductor and	
		inner conductor.	
静電容量	<b>T</b> 1	標準 98 (at 1kHz)	
Capacitance	pF/m	Nom. 98 (at 1kHz)	
特性インピーダンス	Ω	50±2 (at TDR)	
Characteristic Impedance	84	30 ± 2 (at 1510)	
		2.0GHz: 2.9 以下 Max.2.9	
		2.4GHz: 3.2 以下 Max.3.2	
減衰量	dB/m	3.0GHz:3.7以下 Max.3.7	
Attenuation	ab/m	4.0GHz: 4.3 以下 Max.4.3	
		5.0GHz: 4.8 以下 Max.4.8	
		6.0GHz: 5.3 以下 Max.5.3	
VSWR		2.4~2.5GHz: 1.20 以下 Max.1.20	
		4.8~6.0GHz: 1.40 以下 Max.1.40	
耐はんだ性		絶縁体およびシースの寸法変化は 0.2mm 以下のこと。	
Heat resistance for		Shrink and expansion of dielectric core or jacket should not be more	
solder		than 0.2mm.	
Soldet		試験条件(test condition):255℃±5℃ * 3 sec.	

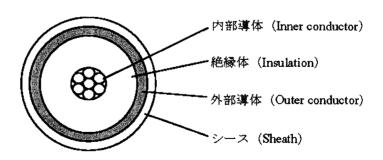


図1.ケーブル構造図

Fig.1. Cable Cross-Section

## **SGS Test Report**

**Product**: **PIFA** Antenna

### Contents

No	Description		Report No.	Page
1	Cable	$\varphi$ 1.13mm Cable	CE/2007/C0427	P.12~16
2	PIFA	Phos. Bronze	CE/2007/C5809A	P.17~22
3	雙面泡棉膠	EVA+G4000	ASZ0803110703C CE/2008/65270	P.23~31

**Result for RoHS: PASS** 



No.: CE/2007/C0427 Date: 2007/12/06 Page : 1 of 5

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444 

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

Sample Description ANTENNA COAXIAL CABLE UL-STYLE 11032

Style/Item No. FOR KHCX-30AWG-SB-TA / KHCX-32AWG-SB-TA /

KHCX-36AWG-SB-TA / KHCX-32AWG-WSB-TA GRAY

Sample Receiving Date 2007/12/03

**Testing Period** 2007/12/03 TO 2007/12/06

In accordance with the RoHS Directive 2002/95/EC, and its **Test Requested** 

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.

Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of Hexavalent Chromium for metallic

samples by Spot test / Colorimetric Method.

(6) Determination of PBB and PBDE by GC/MS.

Test Result(s) Please refer to next page(s).

Chenyu Kung / Operation Manager

Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



No.: CE/2007/C0427 Date: 2007/12/06 Page : 2 of 5

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444



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

÷12212	Method Resu			sult	ult	
Test Item (s):	(Refer to)	No.1	No.2	No.3	No.4	MDL
Cadmium (Cd)	(1)	n.d.	n.d.	n.d.	n.d.	2
Lead (Pb)	(2)	n.d.	n.d.	n.d.	n.d.	2
Mercury (Hg)	(3)	n.d.	n.d.	n.d.	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	n.d.	<u> </u>	7200	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(5)		7500	Negative	Negati∨e	See Note 5
Sum of PBBs		n.d.	n.d.	24	8222	32
Monobromobiphenyl		n.d.	n.d.	- <del></del>	( <del></del>	5
Dibromobiphenyl		n.d.	n.d.	22	8222	5
Tribromobiphenyl		n.d.	n.d.		1000	5
Tetrabromobiphenyl		n.d.	n.d.	822	1200	5
Pentabromobiphenyl		n.d.	n.d.	<del></del>	N <del>ees</del>	5
Hexabromobiphenyl		n.d.	n.d.	<u> 200</u> 1	15500	5
Heptabromobiphenyl		n.d.	n.d.	<u> ==                                  </u>	14-2	5
Octabromobiphenyl		n.d.	n.d.	73	0.555	5
Nonabromobiphenyl		n.d.	n.d.			5
Decabromobiphenyl		n.d.	n.d.		2000	5
Sum of PBDEs (Mono to Nona) (Note 4)	(6)	n.d.	n.d.	222		92
Monobromobiphenyl ether		n.d.	n.d.			5
Dibromobiphenyl ether		n.d.	n.d.	2-2	8222	5
Tribromobiphenyl ether		n.d.	n.d.	<del></del>		5
Tetrabromobiphenyl ether		n.d.	n.d.	<u>855</u> k	7222	5
Pentabromobiphenyl ether		n.d.	n.d.	-	10	5
Hexabromobiphenyl ether		n.d.	n.d.	<u> 201</u>	7 <u>200</u>	5
Heptabromobiphenyl ether		n.d.	n.d.	9-6	re <del>se</del>	5
Octabromobiphenyl ether		n.d.	n.d.	7.7	157075	5
Nonabromobiphenyl ether		n.d.	n.d.		(H=E)	5
Decabromobiphenyl ether		n.d.	n.d.	5-8	2000	5
Sum of PBDEs (Mono to Deca)		n.d.	n.d.		(1 <del>444</del> )	- 22



Test Report No.: CE/2007/C0427 Date: 2007/12/06 Page: 3 of 5

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD.
NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444



#### **TEST PART DESCRIPTION:**

NO.1 : GRAY PLASTIC JACKET NO.2 : TRANSPARENT PLASTIC

NO.3 : SILVER COLORED METAL WIRE NO.4 : SILVER COLORED METAL FOIL

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. Spot-test:

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

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

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer. Positive = Presence of Cr(VI) coating / surface layer;

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.

6. "-" = Not Regulated

7. "---" = Not Conducted



No.: CE/2007/C0427 Date: 2007/12/06 Page : 4 of 5

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444







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No.: CE/2007/C0427 Date: 2007/12/06 Page : 5 of 5

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444







\*\* End of Report \*\*

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號碼(No.): CE/2007/C5809A 日期(Date): 2007/12/28 頁數(Page): 1 of 6

新泰伸科技股份有限公司 HTS TECHNOLOGY CO., LTD. 桃園縣楊梅鎮民隆路8號

8, MING LUNG RD., YANG MEI JEN, TAO YUAN, TAIWAN 326, R. O. C.

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) 收件日期(Sample Receiving Date) 測試期間(Testing Period)

: 磷青銅 C5210 (PHOSPHOR BRONZE C5210)

\_\_\_\_\_

2007/12/21

2007/12/21 TO 2007/12/28

測試需求(Test Requested)

: 參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).

測試方法(Test Method)

- 參考IEC 62321, Ed. 1 111/54/CDV方法檢測. (With reference to IEC 62321, Ed.1 111/54/CDV. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).
  - (1) 用感應藕合電漿原子發射光譜儀檢測鎬含量. / Determination of Cadmium by ICP-AES.
  - (2) 用感應藕合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by
  - (3) 用感應藕合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
  - (4) 針對金屬材質之樣品,用Spot test / Colorimetric方法檢測六價鉻含量./ Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.
  - (5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / Determination of PBB and PBDE by GC/MS.

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

結論(Conclusion)

根據客户所提供樣品的測試結果,符合RoHS(2002/95/EC)及其修定指令之要求 (Based on the performed tests on submitted samples, the test results are compliant with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).

Chenyu Kung / Operation Manager Signed for and on behalf of SGS TAIWAN LTD.

Chemical Laboratory - Taipei

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8, MING LUNG RD., YANG MEI JEN, TAO YUAN, TAIWAN 326, R. O. C.

#### 測試結果(Test Results) 單位(Unit): mg/kg

測試項目	測試方法 Method	結果 (Result)	方法偵測	RoHS 限値
(Test Items)	Method (Refer to)	No.1	極限値 (MDL)	下区1但 (Limit)
鎬 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	15	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by	(4)	Negative	See Note 5	#
Spot test / boiling water extraction				
多溴聯苯總和 / Sum of PBBs		n.d.	_	1000
一溴聯苯 / Monobromobiphenyl		n.d.	5	-
二溴聯苯 / Dibromobiphenyl		n.d.	5	-
三溴聯苯 / Tribromobiphenyl		n.d.	5	-
四溴聯苯 / Tetrabromobiphenyl		n.d.	5	-
五溴聯苯 / Pentabromobiphenyl		n.d.	5	-
六溴聯苯 / Hexabromobiphenyl		n.d.	5	-
七溴聯苯 / Heptabromobiphenyl		n.d.	5	-
八溴聯苯 / Octabromobiphenyl		n.d.	5	-
九溴聯苯 / Nonabromobiphenyl		n.d.	5	-
十溴聯苯 / Decabromobiphenyl		n.d.	5	-
多溴聯苯醚總和(一至九溴)/ Sum of		n.d.	-	1000
PBDEs (Mono to Nona) (Note 4)	(5)			
一溴聯苯醚 / Monobromobiphenyl ether		n.d.	5	-
二溴聯苯醚 / Dibromobiphenyl ether		n.d.	5	-
三溴聯苯醚 / Tribromobiphenyl ether		n.d.	5	-
四溴聯苯醚 / Tetrabromobiphenyl ether		n.d.	5	-
五溴聯苯醚 / Pentabromobiphenyl ether		n.d.	5	-
六溴聯苯醚 / Hexabromobiphenyl ether		n.d.	5	-
七溴聯苯醚 / Heptabromobiphenyl ether		n.d.	5	-
八溴聯苯醚 / Octabromobiphenyl ether		n.d.	5	-
九溴聯苯醚 / Nonabromobiphenyl ether		n.d.	5	-
十溴聯苯醚 / Decabromobiphenyl ether		n.d.	5	-
多溴聯苯醚總和(一至十溴)/ Sum of PBDEs (Mono to Deca)		n.d.	-	-

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桃園縣楊梅鎮民隆路8號

8, MING LUNG RD., YANG MEI JEN, TAO YUAN, TAIWAN 326, R. O. C.

#### 測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 銅色金屬 (COPPER COLORED METAL)

#### 備註(Note):

- 1. mg/kg = ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. 根據2005年10月13日歐盟會議公佈2005/717/EC,修訂2002/95/EC內容,通過解除高分子材質中十溴聯苯醚之使用限制. (According to 2005/717/EC DecaBDE is exempt.)
- 5. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

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

(當該測項無法確認時,測試樣品可藉由boiling-water-extraction測試方法進一步確認)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with  $50 \text{ cm}^2$  sample surface area.

該溶液濃度≧0.02 mg/kg with 50 cm<sup>2</sup> (sample surface area)

- 6. # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as not comply with RoHS requirement. (Positive表示測試區域之六價鉻不符合RoHS要求)

  Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement. (Negative表示測試區域之六價鉻符合RoHS要求)
- 7. "-" = Not Regulated (無規格值)

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號碼(No.): CE/2007/C5809A

日期(Date): 2007/12/28

頁數(Page): 4 of 6

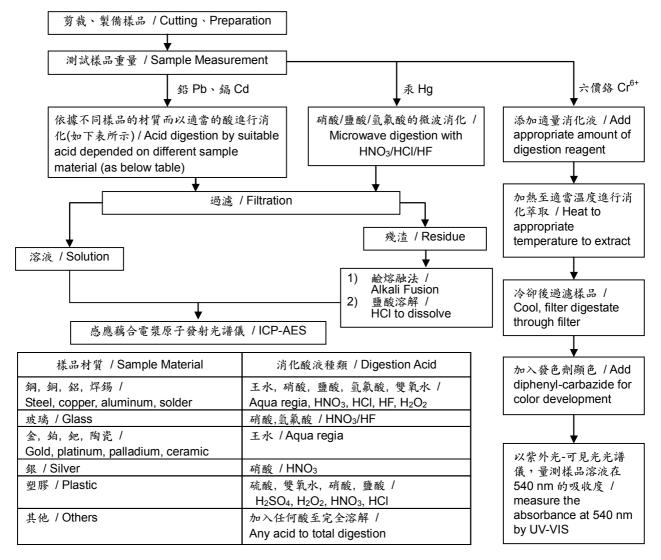
rest Report

新泰伸科技股份有限公司 HTS TECHNOLOGY CO.,LTD.

桃園縣楊梅鎮民隆路8號

8, MING LUNG RD., YANG MEI JEN, TAO YUAN, TAIWAN 326, R. O. C.

- 1) 根據以下的流程圖之條件,樣品已完全溶解。( 六價絡測試方法除外 ) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded )
- 2) 測試人員:張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人: 龔振裕 / Name of the person in charge of measurement: Chenyu Kung



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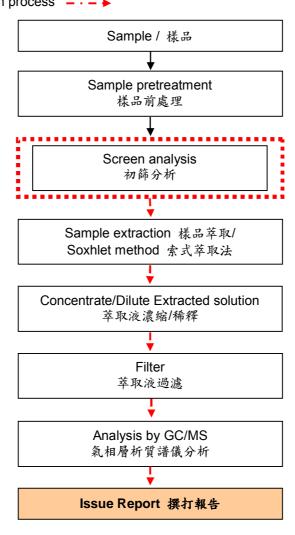
日期(Date): 2007/12/28

頁數(Page): 5 of 6

新泰伸科技股份有限公司 HTS TECHNOLOGY CO.,LTD. 桃園縣楊梅鎮民隆路8號

8, MING LUNG RD., YANG MEI JEN, TAO YUAN, TAIWAN 326, R. O. C.

#### 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART



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8, MING LUNG RD., YANG MEI JEN, TAO YUAN, TAIWAN 326, R. O. C.



報告結尾 \*\*





NO.: ASZ0803110703C

Date: Mar 14, 2008

Page 1 of 4

Customer: HUIZHOU PROSPERITY FOAM RUBBER INDUSTRY CO., LTD

Address: QIU BAO ROAD, XIN TANG VILLAGE, QIU CHANG TOWN, HUIYANG, HUIZHOU CITY, GUANGDONG

PROVINCE, CHINA

Report on the submitted sample said to be

Sample name: EVA

Model: /

Item/Lot No.: /

Material: plastic PE

Buyer: /

Supplier: /

Manufacturer: /

Sample received date: Mar 11, 2008

Testing period: From Mar 11, 2008 to Mar 14, 2008

#### Testing Requested

As specified by client, to determine the Lead, Cadmium, Mercury, Hexavalent Chromium, PBB & PBDE content in the submitted sample in accordance with Directive 2002/95/EC (RoHS).

#### Testing method:

With reference to IEC 62321, 111/95/CDV

Testing Item	Pretreatment method	Measuring instrument	MQL
Lead (Pb)	IEC 62321, section 8	ICP-OES	2mg/kg
Cadmium (Cd)	IEC 62321, section 8	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321, section 7	CV-AAS	2 mg/kg
Chromium (Cr VI)	IEC 62321, Annex C	UV-VIS	2 mg/kg
PBBs/ PBDEs	IEC 62321, Annex A	GC-MS	5 mg/kg

#### Conclusion:

-When tested as specified the submitted sample complied with the requirements of commission Decision of 18 Aug 2005 amending Directive 2002/95/EC notified under document 2005/618/EC

\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)\*\*\*\*\*\*

Signed for AOV Ltd

Written by

Inspected by

Approved by

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AOV Testing Technology Co. Ltd.

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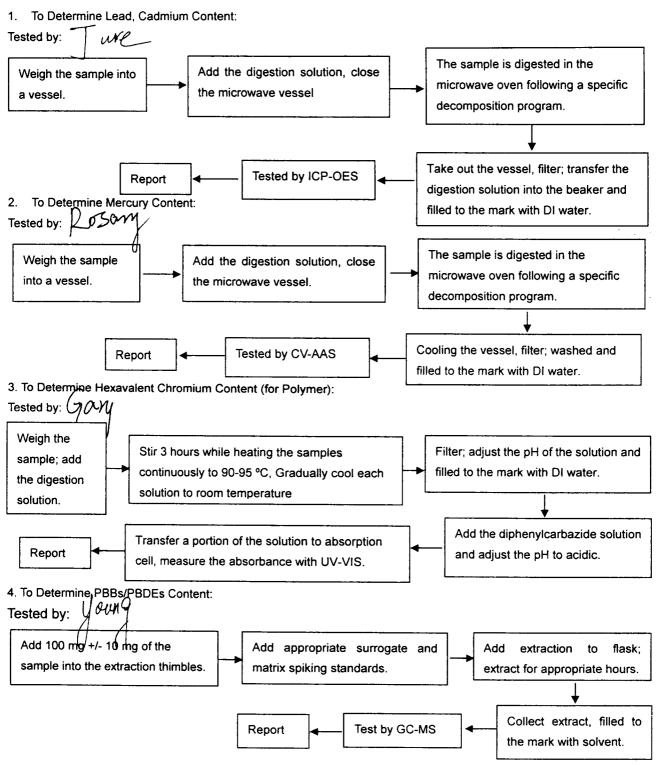


NO.: ASZ0803110703C

Date: Mar 14, 2008

Page 2 of 4

#### **Test Flow:**



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NO.: ASZ0803110703C

Date: Mar 14, 2008

Page 3 of 4

#### Test Results:

Item	Unit	RoHS Limit	Α
Lead (Pb)	mg/kg	1000	50.9
Cadmium (Cd)	mg/kg	100	3.7
Mercury (Hg)	mg/kg	1000	N.D.
Chromium (CrVI)	mg/kg	1000	N.D.

Flame Retardants	Unit	RoHS Limit	Α				
PBBs	mg/kg	1000					
MonoBB	mg/kg	1	N.D.				
DiBB	mg/kg	1	N.D.				
TriBB	mg/kg	1	N.D.				
TetraBB	mg/kg	1	N.D.				
PentaBB	mg/kg	1	N.D.				
HexaBB	mg/kg	1	N.D.				
HeptaBB	mg/kg	1	N.D.				
OctaBB	mg/kg	1	N.D.				
NonaBB	mg/kg	1	N.D.				
DecaBB	mg/kg	1	N.D.				
PBDEs	mg/kg	1000					
MonoBDE	mg/kg	1	N.D.				
DiBDE	mg/kg	1	N.D.				
TriBDE	mg/kg	1	N.D.				
TetraBDE	mg/kg	1	N.D.				
PentaBDE	mg/kg	1	N.D.				
HexaBDE	mg/kg	1	N.D.				
HeptaBDE	mg/kg	1	N.D.				
OctaBDE	mg/kg	1	N.D.				
NonaBDE	mg/kg	1	N.D.				
DecaBDE	mg/kg	/	N.D.*				

#### **Specimen Description:**

A: black plastic

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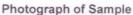
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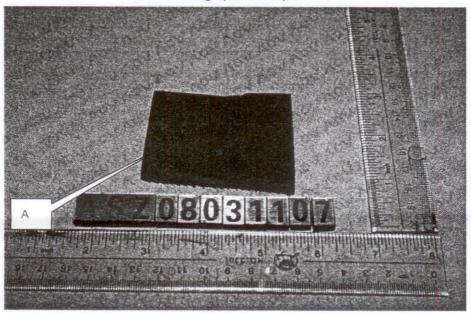
Date: Mar 14, 2008

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#### Note:

- -Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely.
- -mg/kg=ppm
- N.D.=not detected(<MQL)
- MQL=Method Quantitation Limit
- -\*(Deca BDE) In polymeric applications is exempted by commission Decision of 13 Oct 2005 amending directive 2002/95/EC notified under document 2005/717/EC
- Photo is included





**EVA** 

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

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For Question, Please Contact with SGS www.tw.sgs.gom

**Test Report** 

No.: CE/2008/65270

Date: 2008/06/23

Page : 1 of 5

SONY CHEMICAL & INFORMATION DEVICE CORPORATION 8F, 1-11-2, OSAKI, SHINAGAWA-KU, TOKYO, 141-0032 JAPAN

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

Sample Description

: ADHESIVE

Style/Item No.

G4000 LOT: 7M01-1

Sample Receiving Date

2008/06/18

**Testing Period** 

2008/06/18 TO 2008/06/23

Test Requested

In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

**Test Method** 

(1) With reference to US EPA Method 3052 for Cadmium Content. Analysis was performed by ICP-AES.

(2) With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.

(3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.

(4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium for non-metallic samples. Analysis

was performed by UV/Vis Spectrometry.

(5) With reference to US EPA 3540C for PBBs/PBDEs Content.

Analysis was performed by GC/MS.

Test Result(s)

Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of SGS TAIWAN LTD.

Chemical Laboratory - Taipei

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No.: CE/2008/65270

Date: 2008/06/23

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

T414(-)-	Method	Result	
Test Item (s):	(Refer to)	No.1	MDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI)	(4)	n.d.	2
Sum of PBBs		n.d.	-
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
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona)	(5)	n.d.	
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
Sum of PBDEs (Mono to Deca)		n.d.	¥ _

#### **TEST PART DESCRIPTION:**

NO.1

TRANSPARENT TWIN ADHESIVE (EXCLUDING THE RELEASE PAPER)

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. "-" = Not Regulated

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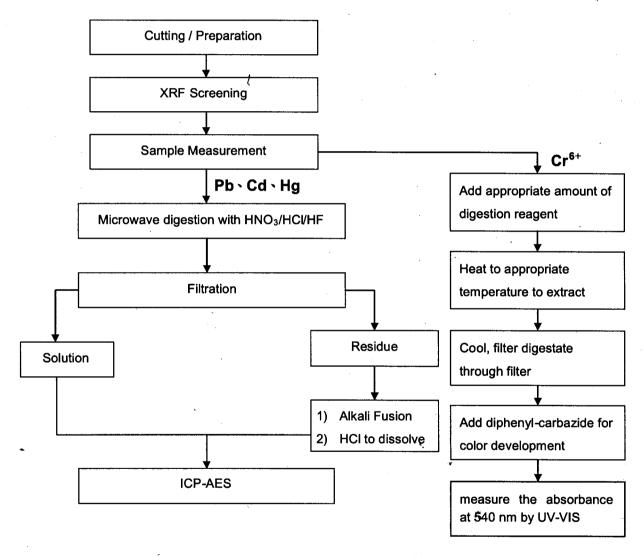
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Date: 2008/06/23

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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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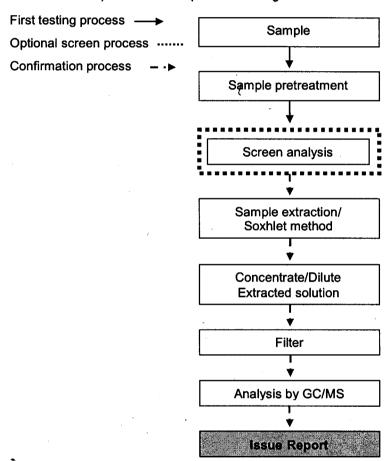
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#### PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



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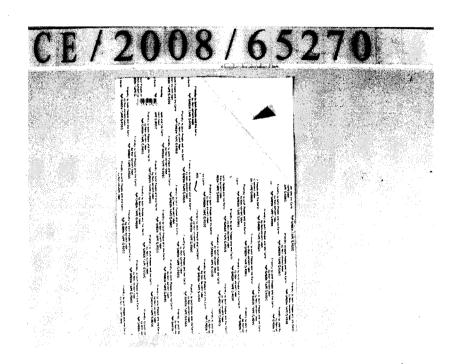
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\*\* End of Report \*\*

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#### 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 :

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: 林祺生 董事長

sign by

立約日期:西元 2006年 9月 05日

Date: 2006. 09. 05





#### 永洋料號:

										蒙層存在與否/蒙層材		ICP測定數據 mg/kg=ppm										物質用	2份表		
It	em (	使用零件料號 (P/N)	使用零件品名 (Description)	等件位置 (Localtion )	零件數 (Qty.)	零件 製造商	零件單 重(mg)	<b>分離之均勻材質</b> (Homogeneous Material ) Sub-parts	原材料颜色 (遺膠、油墨及漆料必模) The color of raw material (Required for plastic, ink and	實說明 If the plating layer	分離之 均勻材質 單重(mg)	∰(Pb)	<b>∰</b> (Cd)	<b>汞</b> (Hg)	六 <mark>價絡</mark> (Cr+6)	PBB	PBDE	實驗室名稱	分析報告號碼	檢測報告日期	第三公 <mark>體單位化學</mark> 分析報告 Attached test report	元素/化合物 名稱	元素/化合物 比重 (%)	排除條款	材實證明
																						Cu	98.368	NA	
														ND								Ag	0.62	NA	
								Silver Coatedv annealed copper wire	_	_	40 ND	ND	ND		Negative	NA	NA	SGS	CE/2007/C0427	2007/12/6		Pb	< 0.0021	NA	1
																			, 		Bi	<0.0016	NA		
																					CE_2007_C0427	Other	REM	NA	
	1	100-1003096-AZ	Cable	(2)	1	SHOWA	439	FEP	Natural	_	93	ND	ND	ND	ND	ND	ND	SGS	CE/2007/C0427	C0427 2007/12/6		FEP	100	NA	_
																						Cu	98.368	NA	
								Tinned copper alloy wire braid shield	_	_	184	ND	ND	ND	Negative	NA	NA	SGS				Ag	0.62	NA	
																						Si	<0.008	NA	
																					<u> </u>	Other	REM	NA	
								FEP	Gray	_	122	ND	ND	ND	ND	ND	ND	SGS	CE/2007/C0427	2007/12/6		FEP	100	NA	
																						Cu	85.95~91.50	YES	
						İ													CE/2007/C5809		CE_2007_C5809A	Pb	3.5~4.5	YES	
	2	100-4012282-AZ	PIFA	1	1	HTS	1490	Phos.Bronze	_	_	1490	15	ND	ND	Negative	ND	ND	SGS	A	2007/12/28	CE_2007_C5809A	Zn	1.5~4.5	YES	_
																						P	0.01~0.05	YES	
																						Other	REM	YES	
		907-11438-A	MARTIN LA DES	0		PROSPERI TY	110	EVA	Black	_	110	50.9	3.7	ND	ND	ND	ND	AOV	ASZ0803110703 C	2008/3/14	ASZ0803110703C	EVA	78.6	NA	_
	٥	507-11430-A	雙面泡棉膠	(3)	ľ	SONY	110	G4000	Transparent	_	110	ND	ND	ND	ND	ND	ND	SGS	CE/2008/65270	2008/6/23	CE_2008_65270	G4000	24.4	NA	

						分離之均勻材質 (Homogeneous Material ) Sub-parts	原材料颜色 (翅膠、油墨及漆料必填) The color of raw material (Required for plastic, ink	exist or not?(Y/N)/If			ICP測定數據 mg/kg=ppm									物質成份表			
Item	永洋科號 (P/N)		原 厳 / 製 造 間 型 號 (SUPPLIER PN)	原廠/ 製造間名稱	零件單重 (mg)				分離之 均勻材質 單重(mg)	可材質 44(円に)	∰(Cd)	汞(Hg)	六 <b>價絡</b> (Cr+6)	PBB	PBDE	實驗室名稱	分析報告號碼	檢測報告日期	第三公體單位化學 分析報告 Attached test report	元素/化合物 名稱	元素/化合物 比重 (%)	排除條款	材質體明
																				Cu	98.368	NA	
																				Ag	0.62	NA	
						Silver Coatedv annealed copper wire	_	-	40	ND	ND	ND	Negative		NA	SGS	CE/2007/C0427	2007/12/6		Pb	<0.0021	NA	
					439															Bi	<0.0016	NA	
				SHOWA																Other	REM	NA	
1	_	Cable	KHCX-32AWG-SB-TA			FEP	Natural	_	93	ND	ND	ND	ND	ND	ND	SGS	CE/2007/C0427	2007/12/6	CE_2007_C0427	FEP	100	NA	_
						Tinned copper alloy wire braid shield			184									2007/12/6		Cu	98.368	NA NA	
							_	_		ND	ND	ND	Negative	NA	NA	SGS	CE/2007/C0427			Ag Si	0.62 <0.008	NA NA	
																				Other	REM	NA NA	
						FEP	Gray	_	122	ND	ND	ND	ND	ND	ND	SGS	CE/2007/C0427	2007/12/6	1	FEP	100	NA NA	1
						<del></del>	2.5,													Cu	85.95~91.50	YES	
				HTS														2007/12/28	-	Pb	3.5~4.5	YES	Ţ
2	_	PIFA	_		1490	Phos.Bronze	_	_	1490	15	ND	ND	Negative	ND	ND	SGS	CE/2007/C5809A		CE_2007_C5809A	Zn	1.5~4.5	YES	_
																				Р	0.01~0.05	YES	
																				Other	REM	YES	
2	_	## 727 No 4ds 058	-	PROSPERITY	110	EVA	Black	- 440	110	50.9	3.7	ND	ND	ND	ND	AOV	ASZ0803110703C	2008/3/14	ASZ0803110703C	EVA	78.6	NA	
3		雙面泡棉膠	G4000 LOT:7M01-1 SONY	110	G4000	Transparent	_	110	ND	ND	ND	ND	ND	ND	SGS	CE/2008/65270	2008/6/23	CE_2008_65270	G4000	24.4	NA	_	