

虹堡科技股份有限公司

零件承認申請書

日期: 106 年 1 月 6 日

廠商名稱: 耕興股份有限公司

零件品名: ANTENNA CONTACTLESS VEGA3000 UL 0.7Ø 3T

零件規格: SPORTON

產品料號: 311600046000

請 RD 部 協助承認此零件，檢附 2 份廠商承認書

測試結果: ☒ 合格 ☐ 不合格

概述合格原因:

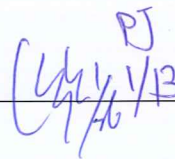
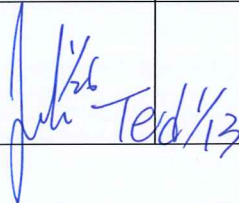
概述不合格原因:

IQC 準則

依據檢驗規範

類別: 62A

測試人員簽名: Jul 1/6 Ted 1/13

品保簽收	採購簽收	審核主管	測試人員	申請人
				



耕興股份有限公司
SPORTON INTERNATIONAL INC.

311600046000

Specification for Approval

Customer: 虹堡科技股份有限公司

Part Description: **Air Coil**
Ls=1.47 μ H Q=70(min.)

SPORTON Part No.: SGR-0.7x64.6x3-S

Customer Part No.:

Issued Date: 2016/05/05

Revision: V1.0

PURCHASER CONFIRMED

DRAWN BY	CHECKED BY	APPROVED BY
<i>Tina</i>	<i>Roger</i>	<i>Chs</i>

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ECN HISTORY LIST

[illegible]

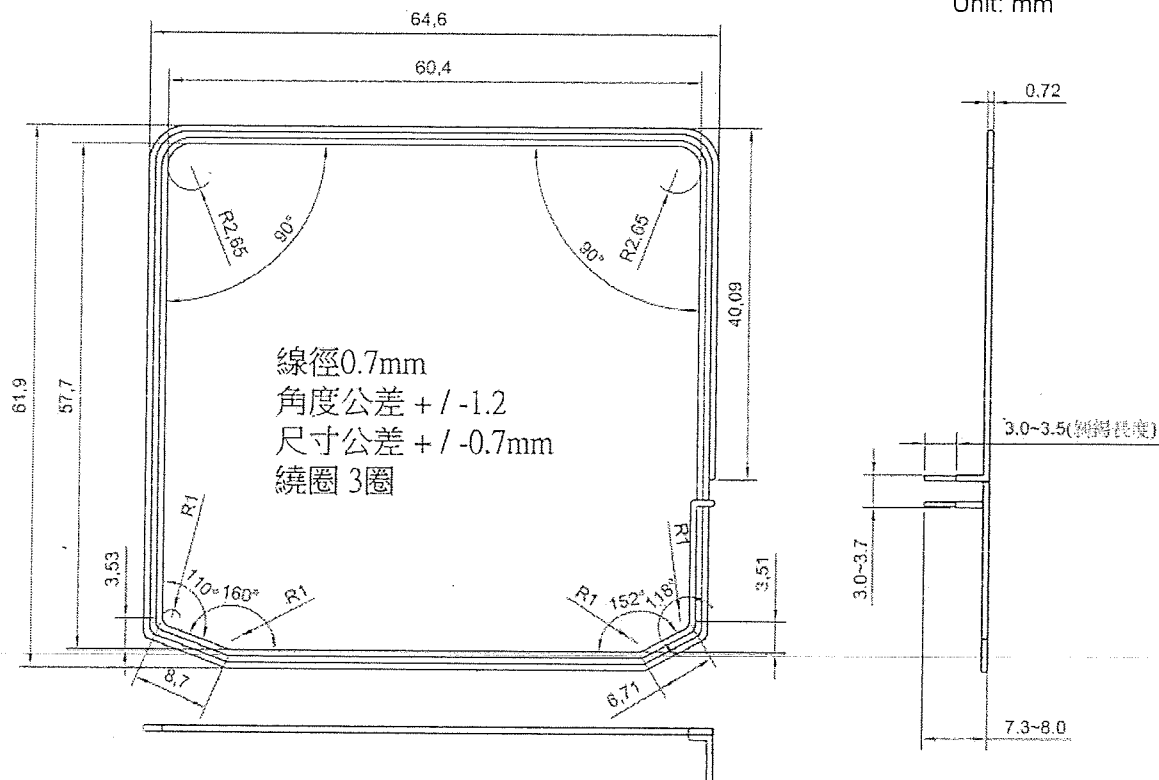
SGR-0.7x64.6x3-S Specification

1. Shapes and Dimension

Tolerances + / -0.7mm

Angle tolerance $\pm 1.2^\circ$

Unit: mm



a、magnet wire : 0.7mm。

b、Wound coil 2 to 4(The following picture is 3 laps)。

c、magnet wire : Self-Bonding Magnet Wires。

1-1、Measurement Description See Note 1

2. Specification

Ls=1.47 μ H ($\pm 10\%$) Q=70(min.)

Test Ls & Q Freq.:13.56MHz

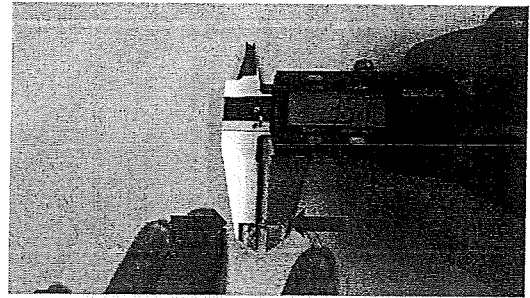
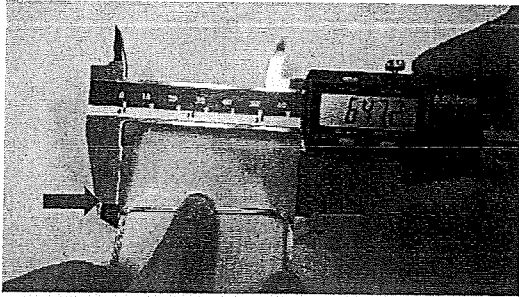
Test Temp.:25 $\pm 3^\circ$ C

3. Operating Temperature Range

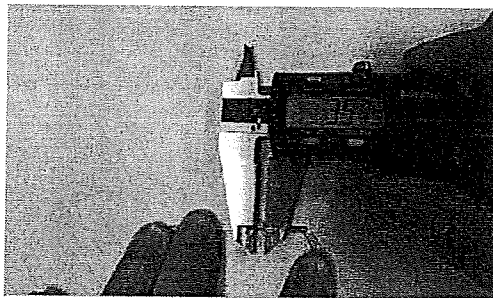
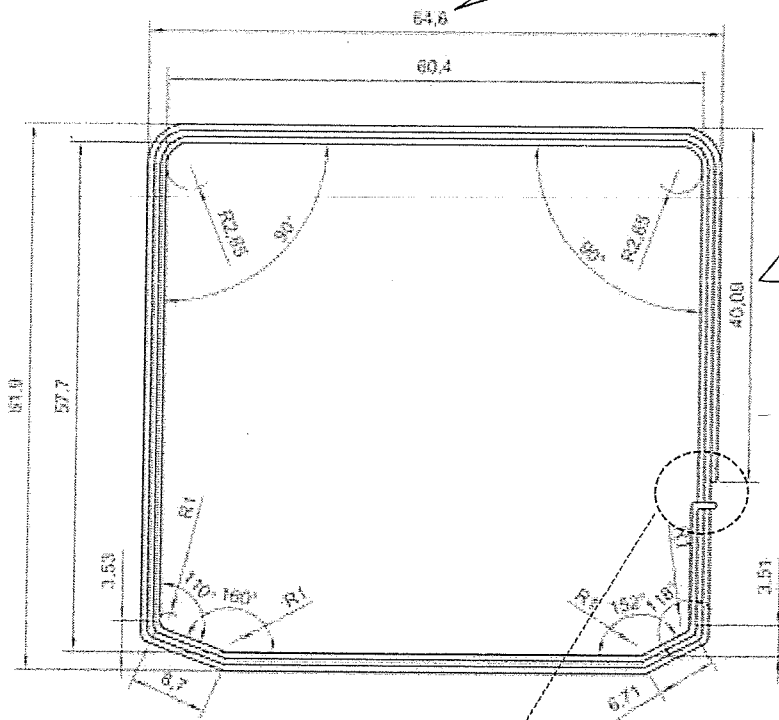
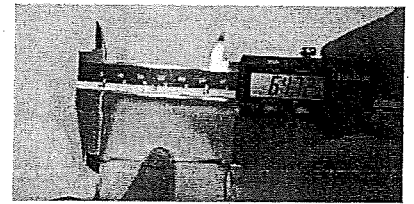
-40 $^\circ$ C to +105 $^\circ$ C

Note 1

Measurement Point, refer to the following Picture



When measuring this product, please use your fingers Flatten measuring





Test Report

No. CANEC1517392501

Date: 19 Oct 2015

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DONGGUAN YIDA INDUSTRIAL CO.,LTD

NANSHE DEVELOPMENT ZONE.CHASHAN TOWN.DONGGUAN CITY.GUANGDONG
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Solderable polyurethane enameled round copper wire

SGS Job No. : CP15-056561 - SZ

Model No. : QA-*/180

Client Ref. Info. : QA-*/155 QA-*/130 Q (A/X) -*/180 Q (A/X) -*/155 Q (A/X) -*/130
R/B/G/BK 0.030-1.800mm

Date of Sample Received : 13 Oct 2015

Testing Period : 13 Oct 2015 - 19 Oct 2015

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 sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) 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 Standards Technical Services Co., Ltd. Guangzhou Branch

Merry

Merry Lv

Approved Signatory



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Test Report

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Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN15-173925.001	Copper-colored metal wire w/ transparent surface

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 : (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
(3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
(4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
(5)With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
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
Dibromodiphenyl ether	-	mg/kg	5	ND



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Guangzhou Branch

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Test Item(s)	Limit	Unit	MDL	001
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 directive 2011/65/EU, Annex II.

Halogen

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

Test Item(s)	Unit	MDL	001
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND



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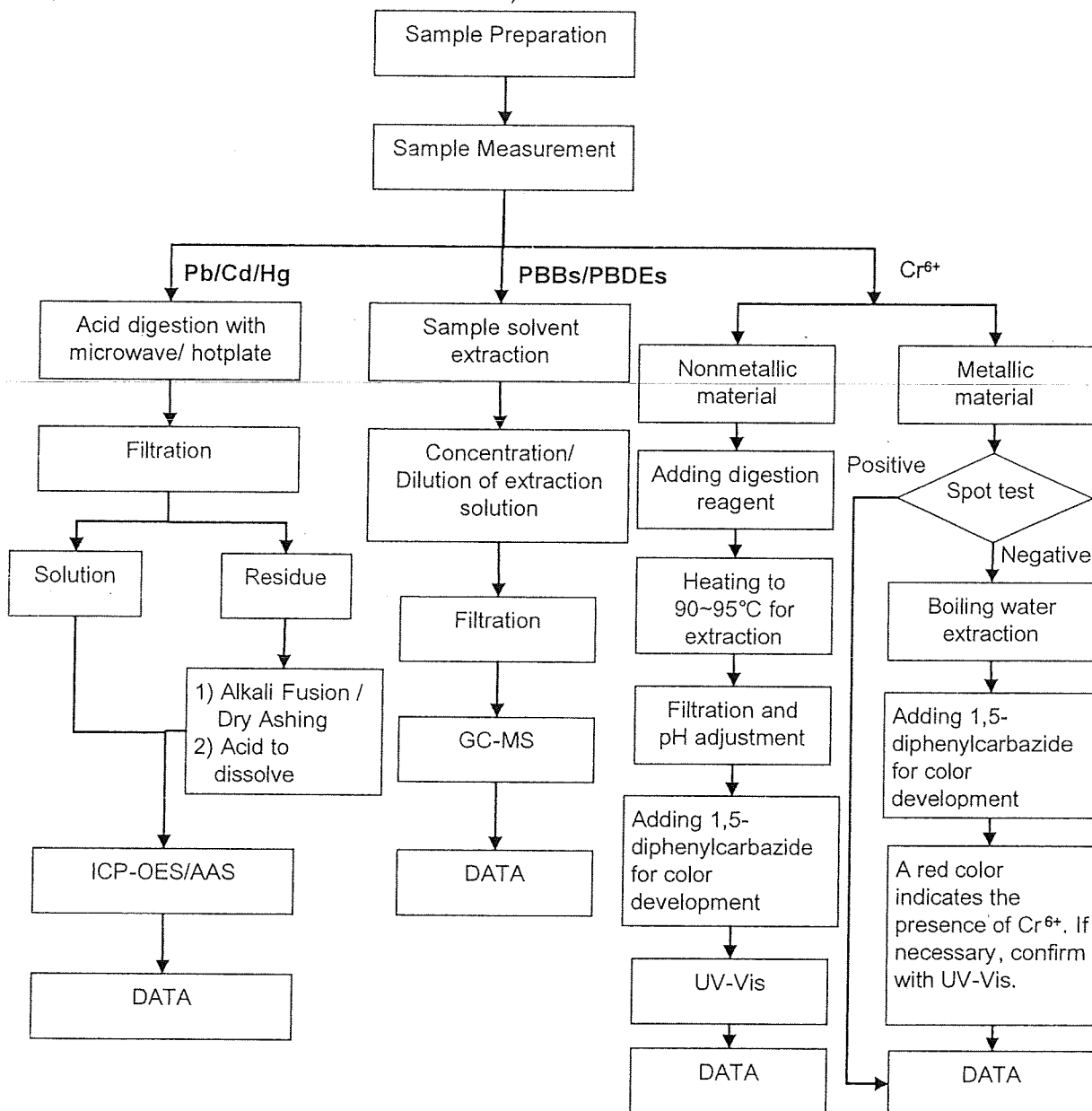
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 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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Test Report

No. CANEC1517392501

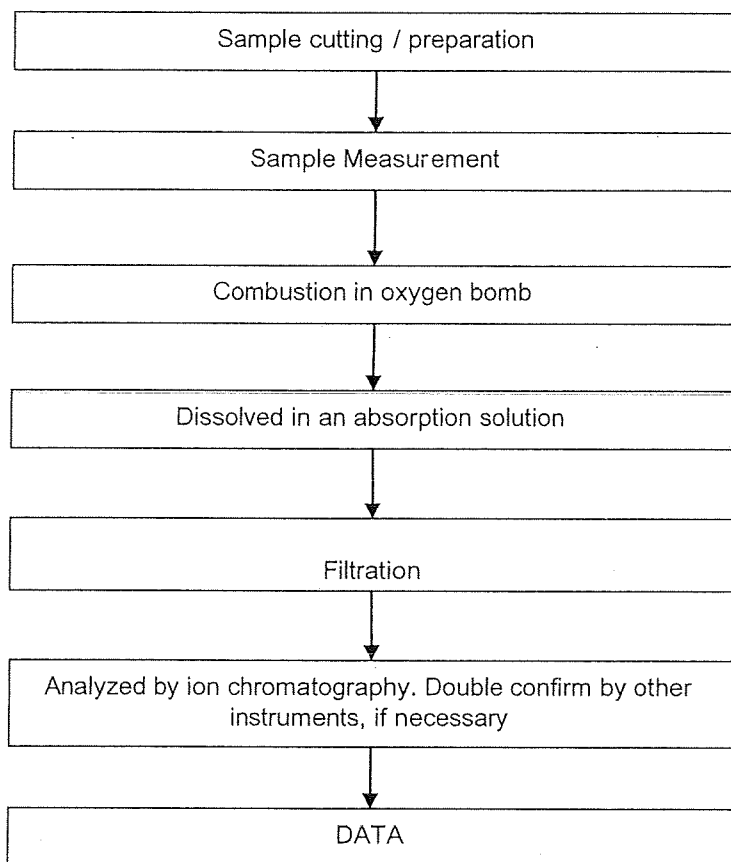
Date: 19 Oct 2015

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ATTACHMENTS

Halogen Testing Flow Chart

- 1) Name of the person who made testing: Hanming Xiao
- 2) Name of the person in charge of testing: Bella Wang



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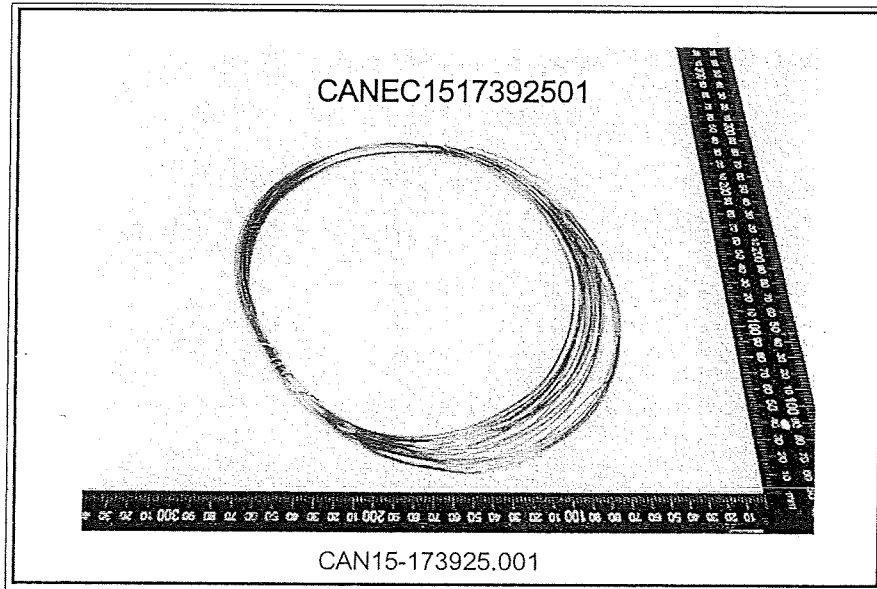
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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report

No. CANEC1520228303

Date: 26 Nov 2015

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SHENZHEN TONGCHUANG TIMES TIN SOLDER SCIENCE AND TECHNOLOGY CO., LTD.
B-BUILDING, HUAWAN INDUSTRIAL PARK, GUSHU STREET, BAO'AN ROAD, BAO'AN
DISTRICT, SHENZHEN, GUANGDONG
518100, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Lead-free Solder Bar

SGS Job No. : CP15-065663 - GZ

Date of Sample Received : 23 Nov 2015

Testing Period : 23 Nov 2015 - 26 Nov 2015

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 sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet

Violet, Shi

Approved Signatory



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Test Report

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN15-202283.002	Silvery metal

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
(3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
(4)With reference to IEC 62321-7-1:2015 , determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
(5)With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	002
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	57
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm ²	0.10	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

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Test Item(s)	Limit	Unit	MDL	002
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 RoHS Directive (EU) 2015/863.
- (2) ▽= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination

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

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25



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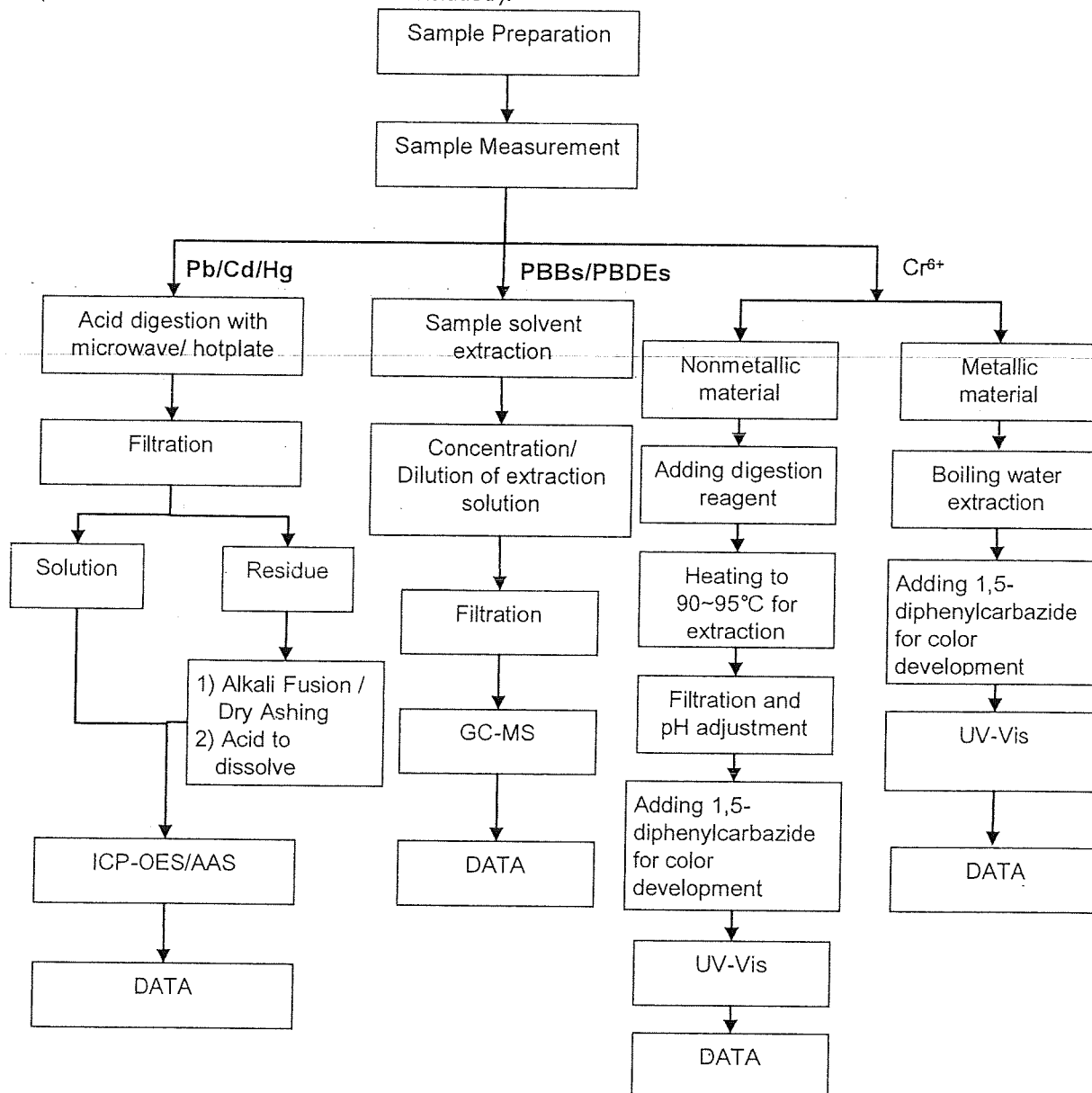
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ATTACHMENTS

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 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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Test Report

No. CANEC1520228303

Date: 26 Nov 2015

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Sample photo:



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