

虹堡科技股份有限公司

零件承認申請書

日期: 111 年 06 月 20 日

廠商名稱: 耕興股份有限公司

零件品名: ANTENNA CONTACTLESS SATURN1000E

零件規格: 0.75MM_4T_67.8*27.12MM_天線末端引腳加長

零件品號: 311600088002

請 RD 部協助承認此零件，檢附 2 份廠商承認書(樣品 10 pcs)

替代原因:

RD 進版

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

測試人員簽名: Steven Allen 3/9

依據檢驗規範

類別: 62A

品保簽收	採購簽收	審核主管	測試人員	申請人
		Jack Te Eason 2023/06/23	Steven Ted 8/8 Vicky 3/26 Allen 3/9	Irene.

梁依翠

★一式單張: 品保部門留存
★單據保存時間: 廠商存續年間

(4-PE01-03)

零件承認申請書首頁

料號：311600088002

品名：ANTENNA CONTACTLESS SATURN1000E

規格：0.75MM_4T_67.8*27.12MM_天線末端引腳加長

入料單體重量：2.324g

包裝裝箱數量：4,050PCS

☐RoHS ☒RoHS & HF

供應廠商名稱：耕興股份有限公司

供應商連絡方式：ROGER@sporton.com.tw

供應商連絡窗口：郭柏甫

供應商 Vander Code：97491093



耕興股份有限公司
SPORTON INTERNATIONAL INC.

Specification for Approval

Customer : 虹堡科技股份有限公司

Part Description : Air Coil
Ls=1.52uH Q=50(min.)

SPORTON Part No. : SGR-0.75x67.8x4-S

Customer Part No. : 311600088002

Issued Date : 2023/02/24

Revision : V1.5

PURCHASER CONFIRMED		

DRAWN BY	CHECKED BY	APPROVED BY
chin	Roger	Morris

☐ 耕興股份有限公司

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☐ 深圳耕興電子科技有限公司

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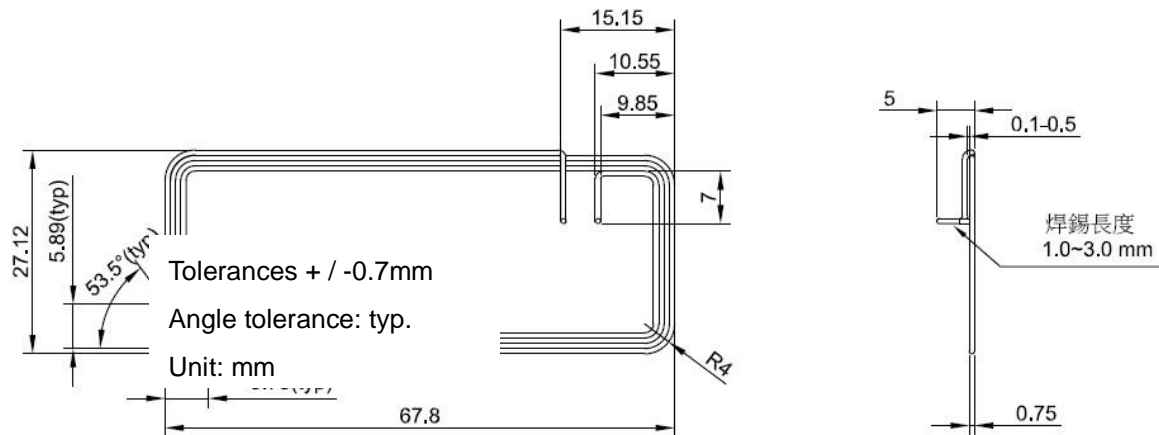
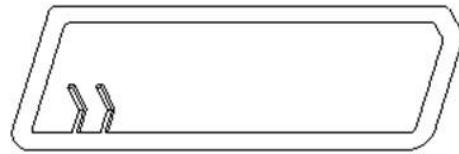
ECN HISTORY LIST					
EV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN
V1.0	18/06/07	新 發 行	Chs	Kylie	Anne
V1.1	18/12/13	修改焊錫長度	Chs	Roger	Tina
V1.2	19/01/11	折彎後彎曲尺寸修改為 typ. 刪除彎角角度標示	Chs	Roger	Tina
V1.3	22/01/27	修改引出腳長	Chs	Roger	Tina
V1.4	22/10/21	Add Packing and Quantity	Chs	Roger	chin
V1.5	23/02/24	Add Packing and Quantity 含圖示	Morris	Roger	chin
Remarks					

SGR-0.75x67.8x4-S Specification

APPLICATION

NFC Antenna can be used for data loggers transport and Industrial data collection.

線徑 0.75mm
繞圈 4圈
未標示公差部分 + / -0.7mm
R角及角度公差 typ.
跨線抬高 0.1-0.5mm



1. Shapes and Dimensions

- a、magnet wire : 0.75mm。
- b、Wound coil 4 laps。
- c、magnet wire : Self-Bonding Magnet Wires。

1-1、Measurement Description See Note 1

2. Specification

Ls=1.46μH (±10%) Q=40(min.)

Test Ls & Q Freq.:13.56MHz

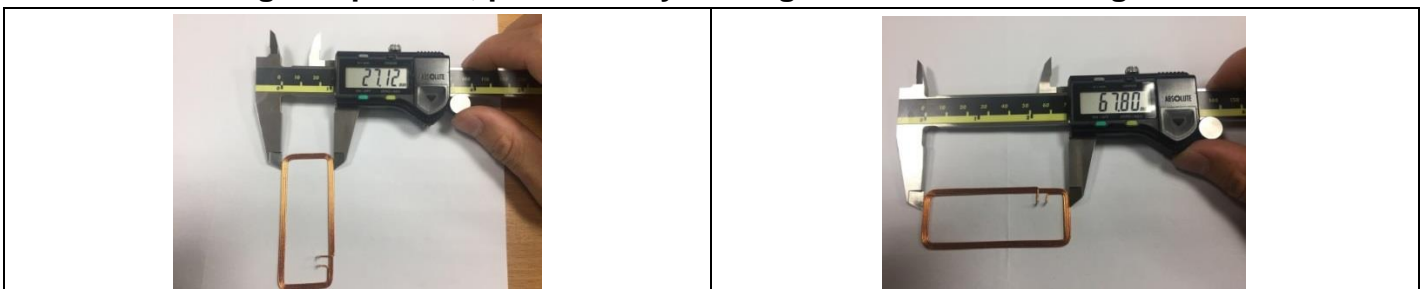
Test Temp.:25 ±3℃

3. Operating Temperature Range

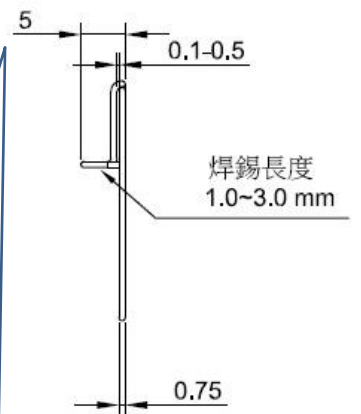
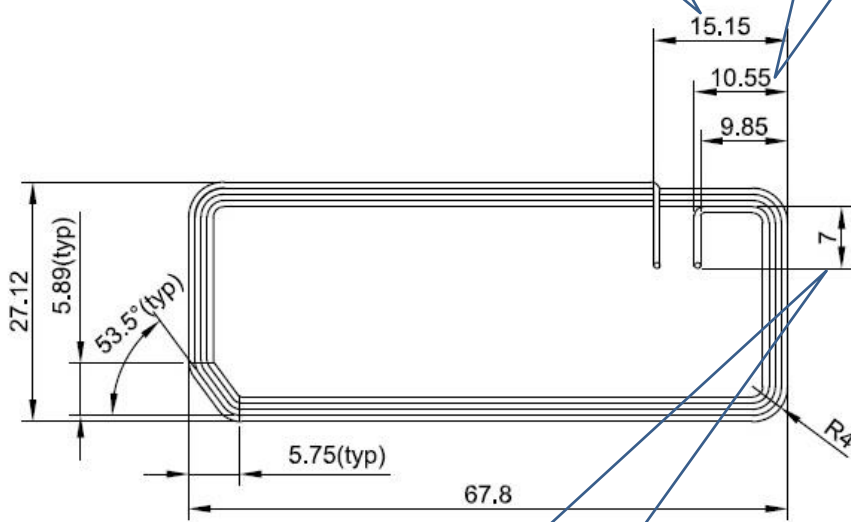
-40℃ to +105℃

Note 1




When measuring this product, please use your fingers Flatten measuring



Measurement Point, refer to the following Picture



4. Packing and Quantity

		
30pcsx15 格 x3 排=1350pcs	1350pcsx3 盒=4050pcs	1 箱=4050pcs





Test Report

No. CANEC2123297705

Date: 15 Dec 2021

Page 1 of 7

DONG GUAN YIDA INDUSTRIAL CO.,LTD.

136 CHA NAN ROAD, CHASHAN TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Solderable Polyurethane enamelled round copper wire,class 155

SGS Job No. : CP21-065827 - GZ
 Model No. : QA-*/155 φ0.400mm
 Material No. : 20211202W39
 Client Ref. Info. : Used for QA -*/155, QA -*/180 Φ0.030-1.800mm
 Supplier : DONG GUAN YIDA INDUSTRIAL CO.,LTD.
 Date of Sample Received : 09 Dec 2021
 Testing Period : 09 Dec 2021 - 15 Dec 2021
 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) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) 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

Jessie Li

Jessie Li
 Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
 Guangzhou Branch Testing Center: Chemical Laboratory.

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Test Report

No. CANEC2123297705

Date: 15 Dec 2021

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-232977.003	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 (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

Test Item(s)	Limit	Unit	MDL	003
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	8	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
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
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
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series

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

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Halogen

Test Method : With reference to EN 14582:2016, analysis was performed by IC.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
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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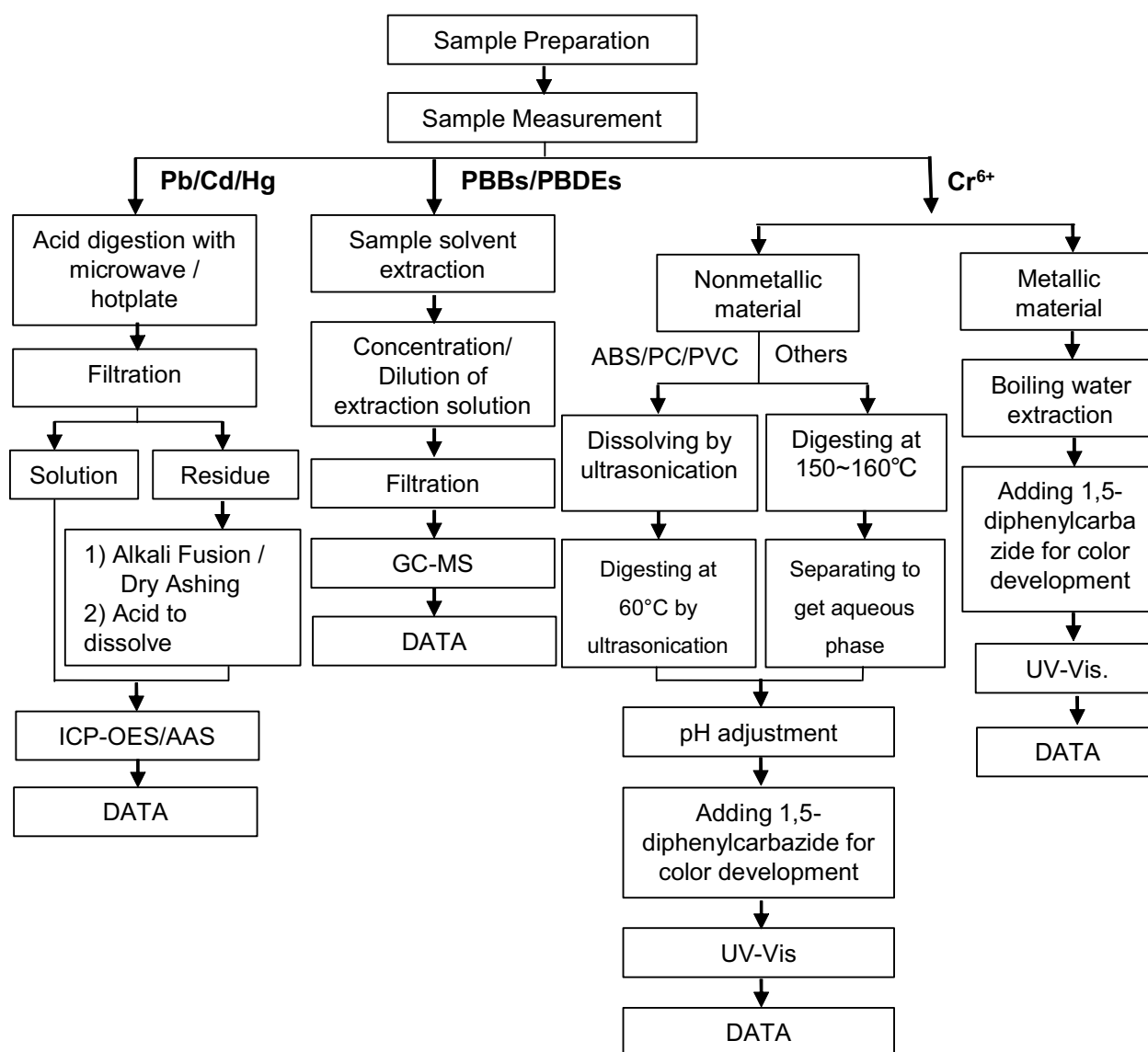
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ATTACHMENTS

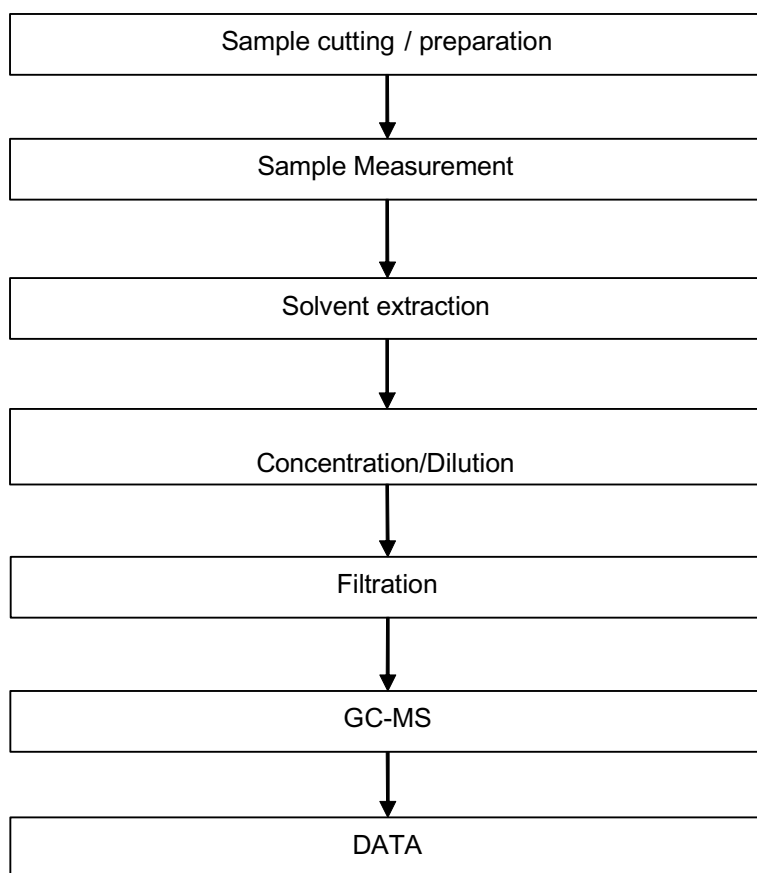
Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ and PBBs/PBDEs test method excluded).



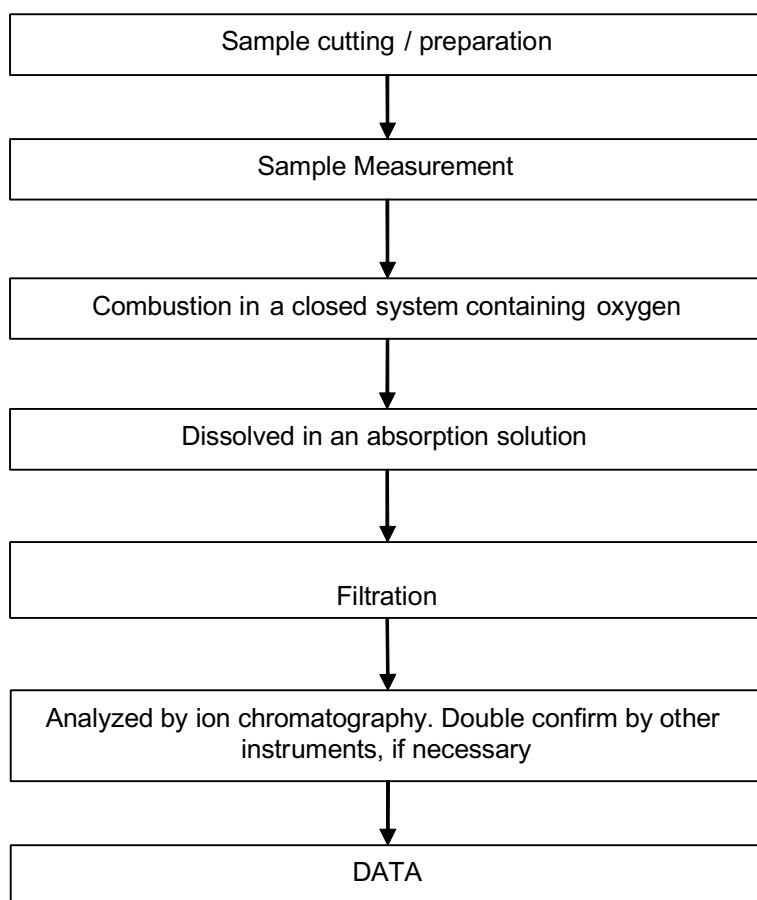
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Phthalates Testing Flow Chart



ATTACHMENTS

Halogen Testing Flow Chart



Test Report

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report

No. CANEC2215761101

Date: 27 Jul 2022

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Client Name : DONGGUAN CITY THOUSAND ISLAND METAL FOIL CO.,LTD.

Client Address : NO. 6, NO. 2, XINLONG ROAD, TANGXIA TOWN, DONGGUAN CITY, GUANGDONG PROVINCE.

Sample Name : Lead-free Solder Bar

The above sample(s) and information were provided by the client.

SGS Job No. : CP22-040790 - SZ

Date of Sample Received : 22 Jul 2022

Testing Period : 22 Jul 2022 - 27 Jul 2022

Test Requested : Selected test(s) as requested by the client.

Test Method(s) : Please refer to next page(s).

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

Result Summary :

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	PASS

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

Dongyu Xie

Dongyu Xie

Approved Signatory



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Guangzhou Branch Testing Center: Chemical Laboratory.

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Test Report

No. CANEC2215761101

Date: 27 Jul 2022

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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN22-157611.001	Silvery metal solder bar

Remarks :

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

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	27
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm ²	0.10	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Date: 27 Jul 2022

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
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
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series
- (3) ▼= 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.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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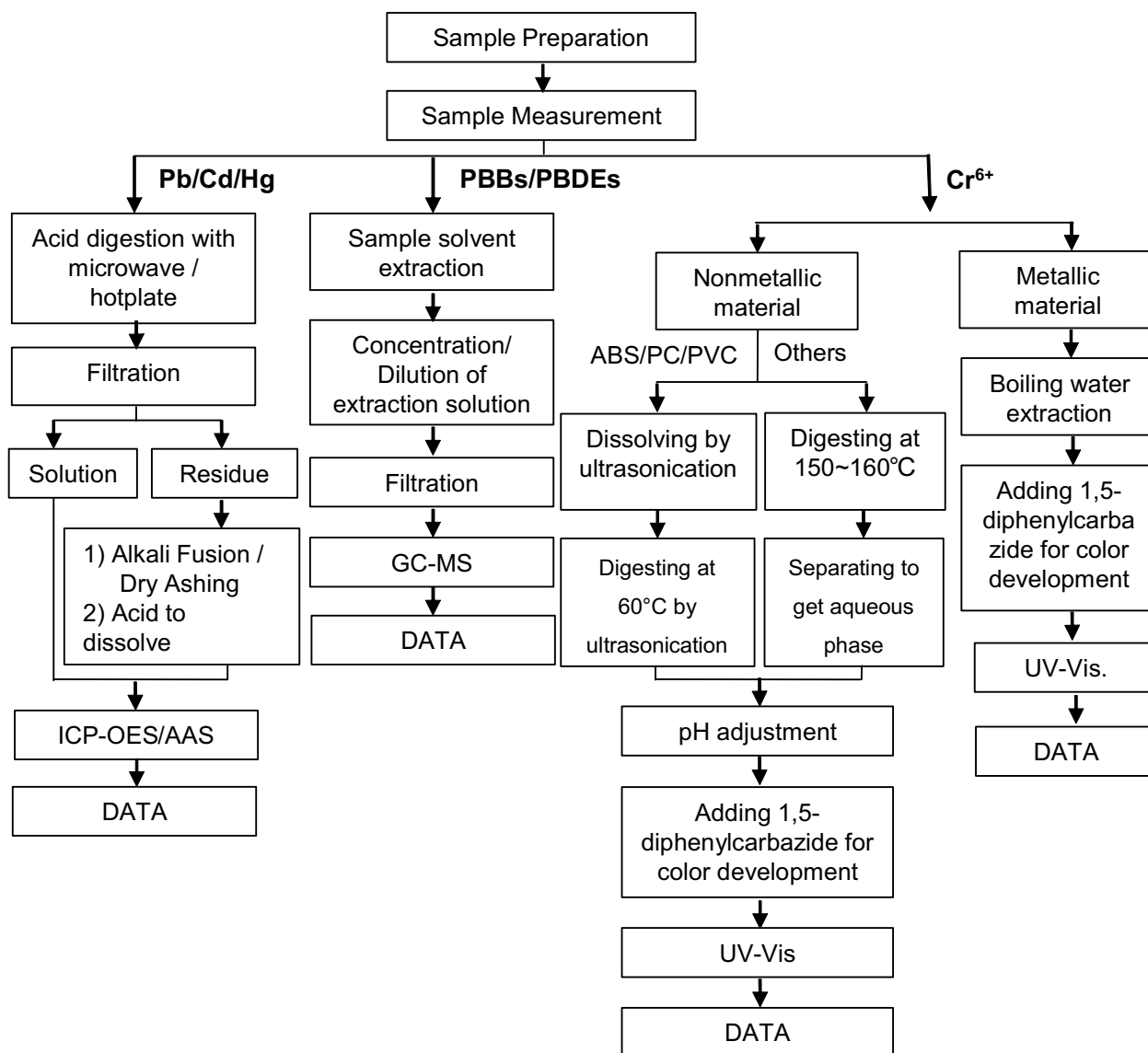
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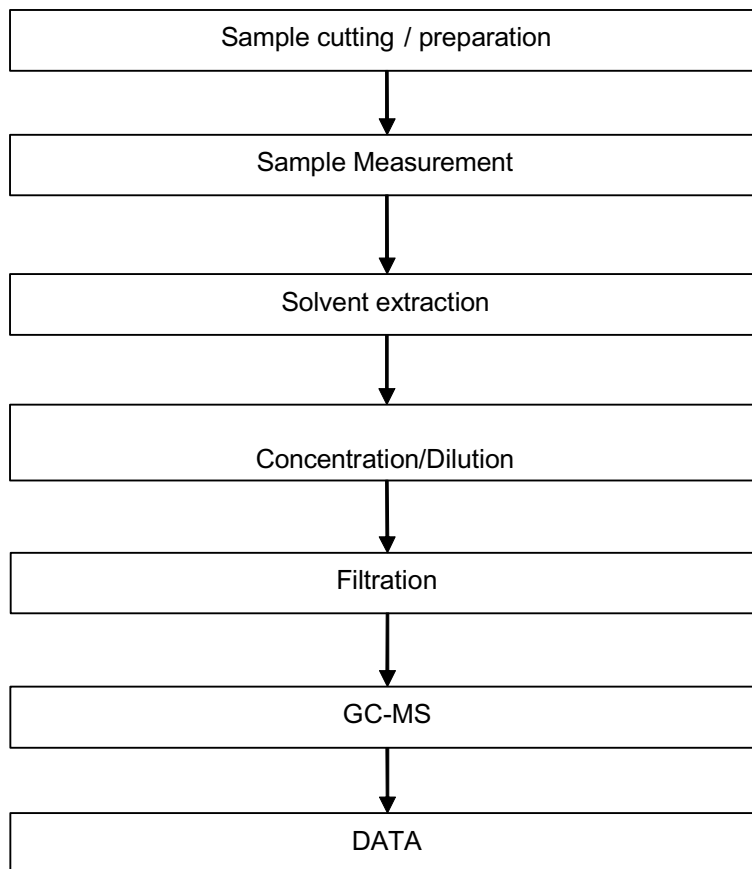
Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

- 1) 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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Phthalates Testing Flow Chart



Test Report

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Sample photo:



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