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## Test Report

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Report No. : AGC07686200901-002

**SAMPLE NAME** : Please refer to follow page(s).  
**MODEL NAME** : Please refer to follow page(s).  
**APPLICANT** : Shenzhen Renhotec Technology Electronics Co., Ltd  
**STANDARD(S)** : Please refer to follow page(s).  
**DATE OF ISSUE** : Nov.10, 2020

**Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.**



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Applicant : Shenzhen Renhotec Technology Electronics Co., Ltd  
 Address : No 5, Xinyuan North Fifth Road, Ludong Village, Humen Town,  
 Dongguan, 523939, Guangdong, China  
 Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

**Report on the submitted sample(s) said to be:**

Manufacturer : Shenzhen Renhotec Technology Electronics Co., Ltd  
 Address : No 5, Xinyuan North Fifth Road, Ludong Village, Humen Town,  
 Dongguan, 523939, Guangdong, China  
 Sample Received Date : Sep.29, 2020  
 Testing Period : Sep.29, 2020 to Nov.10, 2020

No.	Sample name	Material	Model No.	Series model	Difference between test model and series model
1	MS5015 circular connectors	aluminium alloy	MS3102 10SL- 4P	MS5015	The appearance and size are different
2	VG95234 circular connectors	aluminium alloy	MS3106 10SL- 4S	VG95234	The appearance and size are different

**Test Requested:**

As specified by client, to determine the Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.

**Conclusion**

**Pass**

Approved by: Jessie Liang  
 Liangdan, Jessie.Liang  
 Technical Director

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No.	Sample Description
MS3106 10SL-4S	
1.	Silver metal buckle
2.	Metal screw
3.	Metal screw washer
4.	Black sealing ring
5.	Metal threaded sleeve
6.	Black rubber ring
7.	Silver metal seat
8.	Plug black rubber
9.	Copper pin
MS3102 10SL-4P	
10.	Silver metal pin

**Test Result:**

(Test Method/ Instrument/ MDL and Limit: See Appendix)

No.	Test result (mg/kg)										Conclusion
	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	
1	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
2	N.D.	N.D.	N.D.	353	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
3	N.D.	N.D.	N.D.	487	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
5	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
7	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
9	22088*	N.D.	N.D.	273	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
10	23555*	N.D.	N.D.	229	N/A	N/A	N/A	N/A	N/A	N/A	Conformity

**Note:**

mg/kg = milligram per kilogram

μg/cm<sup>2</sup> = microgram per square centimeter

MDL = Method Detection Limit

N.D.=Not Detected (less than method detection limit)

N/A= Not applicable

**Exemption**

No.	Exemption clause	Content
9 10	6(c)	Copper alloy containing up to 4 % lead by weight

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### Remark:

- \*denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, nonuniformity composition, surface flatness.
- This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

- Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
1	The sample solution is < the 0,10 $\mu\text{g}/\text{cm}^2$ equivalent comparison standard solution	The sample is negative for Cr(VI) – The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
2	The sample solution is $\geq$ the 0,10 $\mu\text{g}/\text{cm}^2$ and $\leq$ the 0,13 $\mu\text{g}/\text{cm}^2$ equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
3	The sample solution is > the 0,13 $\mu\text{g}/\text{cm}^2$ equivalent comparison standard solution	The sample is positive for Cr(VI) – The Cr(VI) concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

- Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification.

The coating is considered a non-Cr(VI) based coating.

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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### Appendix:

Test Item	Test Method/ Instrument	MDL	Maximum Limit
X-ray Fluorescence Spectrometry(XRF)			
Lead (Pb)	IEC 62321-3-1:2013 / XRF	200mg/kg	1000mg/kg
Cadmium (Cd)		50mg/kg	100mg/kg
Mercury (Hg)		200mg/kg	1000mg/kg
Total Chromium		200mg/kg	/
Total Bromine		200mg/kg	/
Wet Chemistry Method			
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	10mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	10mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	10mg/kg	1000mg/kg
Non-metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg
Metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-1:2015/ UV-Vis	0.1µg/cm <sup>2</sup>	/
Polybrominated Biphenyls (PBBs) -Monobromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromodiphenyl (NonaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
PolybrominatedDiphenylethers (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
Di-iso-butyl phthalate (DIBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg
Dibutyl phthalate (DBP)		50mg/kg	1000mg/kg
Butylbenzyl phthalate (BBP)		50mg/kg	1000mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	1000mg/kg

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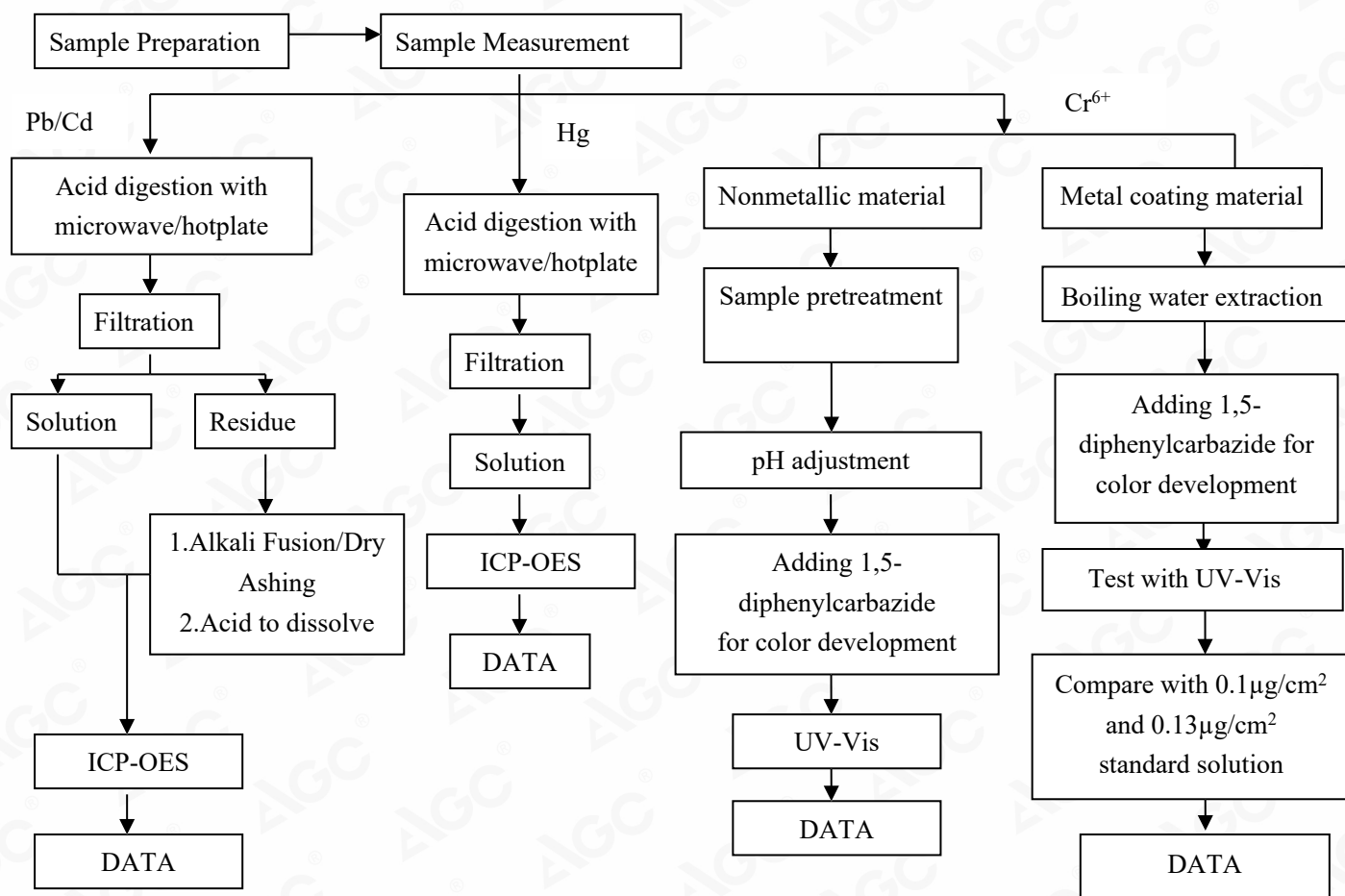
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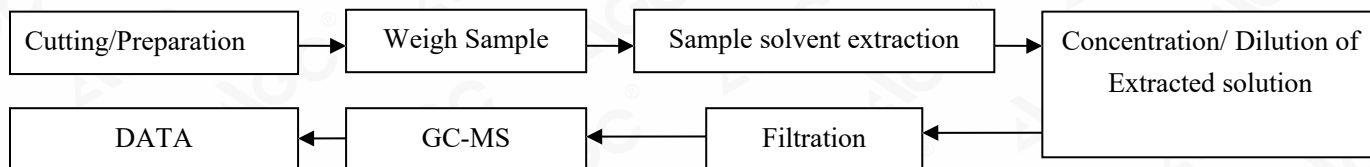
## Test Flow Chart

### 1.For Pb , Cd , Hg, Cr<sup>6+</sup>



These sample were dissolved totally by pre-conditioning method according to above flow chart (Cr<sup>6+</sup> test method excluded)

### 2.For PBBs, PBDEs, DBP, BBP, DEHP, DIBP



Test result on specimen No.4, No.6, No.8 were resubmitted on Nov.05, 2020

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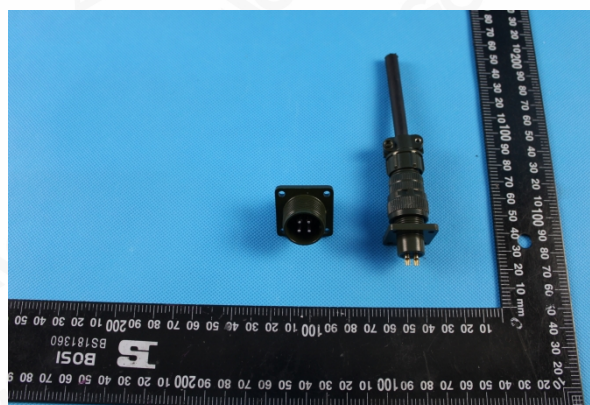
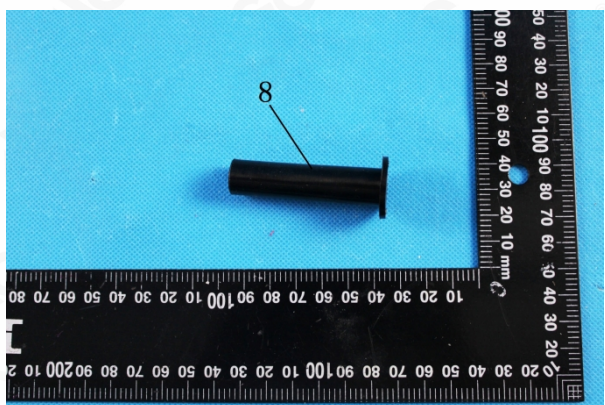
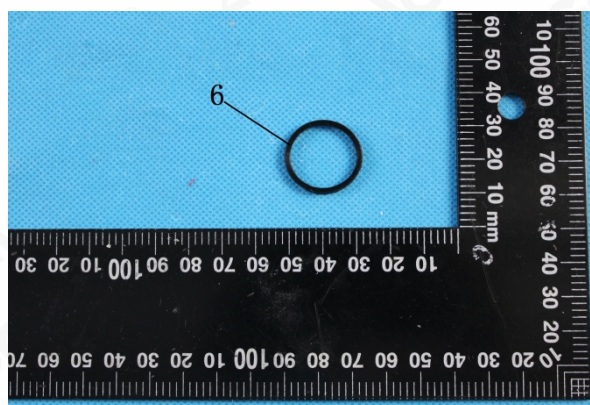
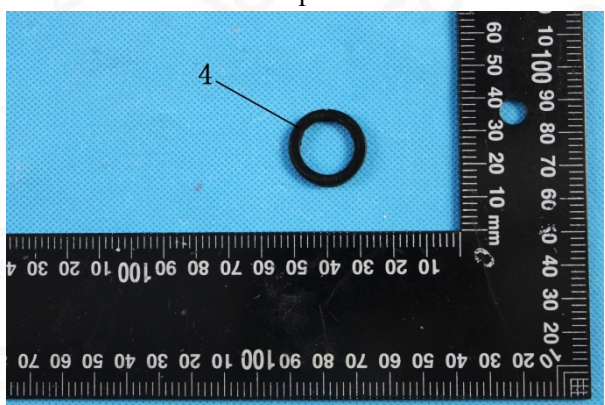
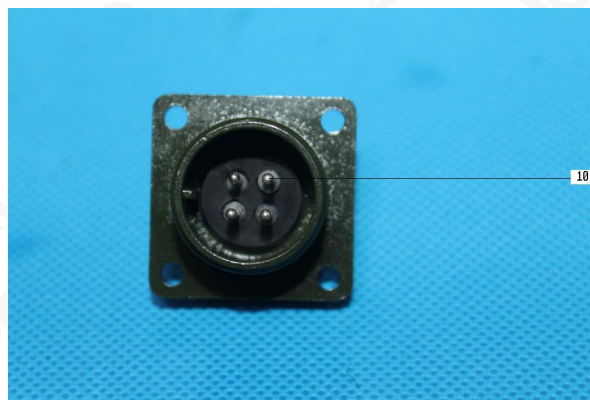
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### The photo of the sample



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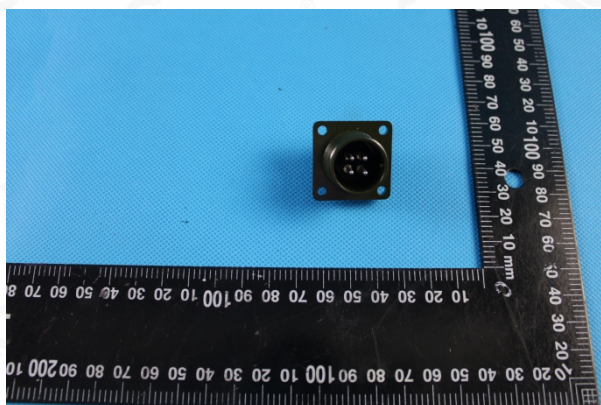
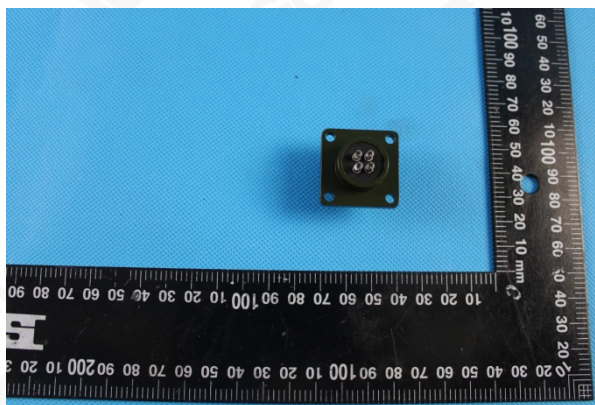
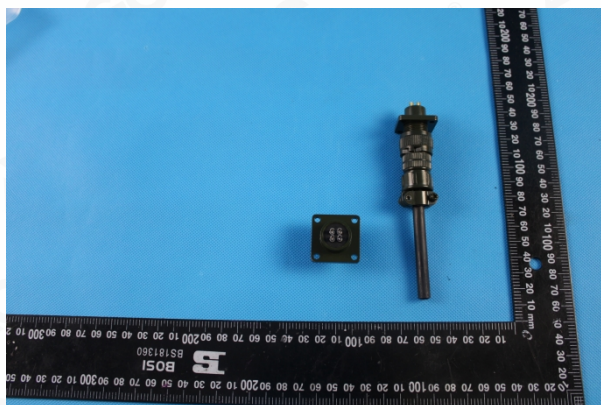
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AGC authenticates the photo only on original report

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