
RoHS Test Report

Report No. : AGC07686211101-005S1

SAMPLE NAME : SMA connector+BNC connector+N connector+
SMA male to female RF adapter+ Right angle SMA male to male
RF cable/SMA T type RF adapter

MODEL NAME : SMA connector /BNC connector /N connector /TNC connector,
RF connector/Adapter, SMA to IpeX RF Coaxial cable/ Antenna RF
connector/RF wire series

APPLICANT : Shenzhen Renhotec Technology Electronics Co., Ltd

STANDARD(S) : Please refer to the following page(s).

**DATE OF
ISSUE** : Dec.20, 2021

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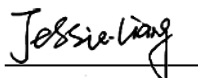
Applicant : Shenzhen Renhotec Technology Electronics Co., Ltd
Address : 8th Floor, Building 1, Yongfu Science and Technology Innovation Center
Industrial Park, Nanzha District 5, Humen Town, Dongguan 523939, China
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

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

Sample Name : SMA connector+BNC connector+N connector+SMA male to female RF
adapter+ Right angle SMA male to male RF cable/SMA T type RF adapter
Model No. : SMA connector /BNC connector /N connector /TNC connector,
RF connector/Adapter, SMA to IpeX RF Coaxial cable/ Antenna RF
connector/RF wire series
Manufacturer : Shenzhen Renhotec Technology Electronics Co., Ltd
Address : 8th Floor, Building 1, Yongfu Science and Technology Innovation Center
Industrial Park, Nanzha District 5, Humen Town, Dongguan 523939, China
Difference between test
model and series model : The size and number of cores are different
Sample Received Date : Nov.17, 2021
Testing Period : Nov.17, 2021 to Nov.25, 2021

Test Requested:

As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, 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: 

Liangdan, Jessie.Liang

Technical Director

Test Point Description

Test point	Test parts	Test point description
1	Connector	Silver metal shell
2		Copper metal pin
3		White inner plastic
5		Red sealing ring
6		Metal spring
11		Connector
12	Grey outer skin	
14	Black inner glue	
15	Metal braided wire	
16	Transparent thread skin	
28	Blue wire connector	
33		Metal circlip
35		Blue thread skin
38		Wire core
51	Black wire connector	Transparent inner liner

Test Result:

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

Test point	Test result (mg/kg)										Conclusion
	Pb	Cd	Hg	Cr ⁶⁺	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	
1	22180*	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
2	20586*	N.D.	N.D.	267	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
3	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.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
6	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
15	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
28	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
33	N.D.	N.D.	N.D.	385	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
35	N.D.	N.D.	N.D.	293	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
38	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
51	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity

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Note:

mg/kg = milligram per kilogram
 MDL = Method Detection Limit
 N/A= Not applicable

µg/cm² = microgram per square centimeter
 N.D.=Not Detected (less than method detection limit)

Exemption

Test point	Exemption clause	Content
1, 2	6(c)	Copper alloy containing up to 4 % lead by weight

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 µg/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 ≥ the 0,10 µg/cm ² and ≤ the 0,13 µg/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 µg/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.
- As specified by client, only test the designated sample.

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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 ⁶⁺)	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015/ UV-Vis	0.1µg/cm ²	/
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
Polybrominated Diphenylethers (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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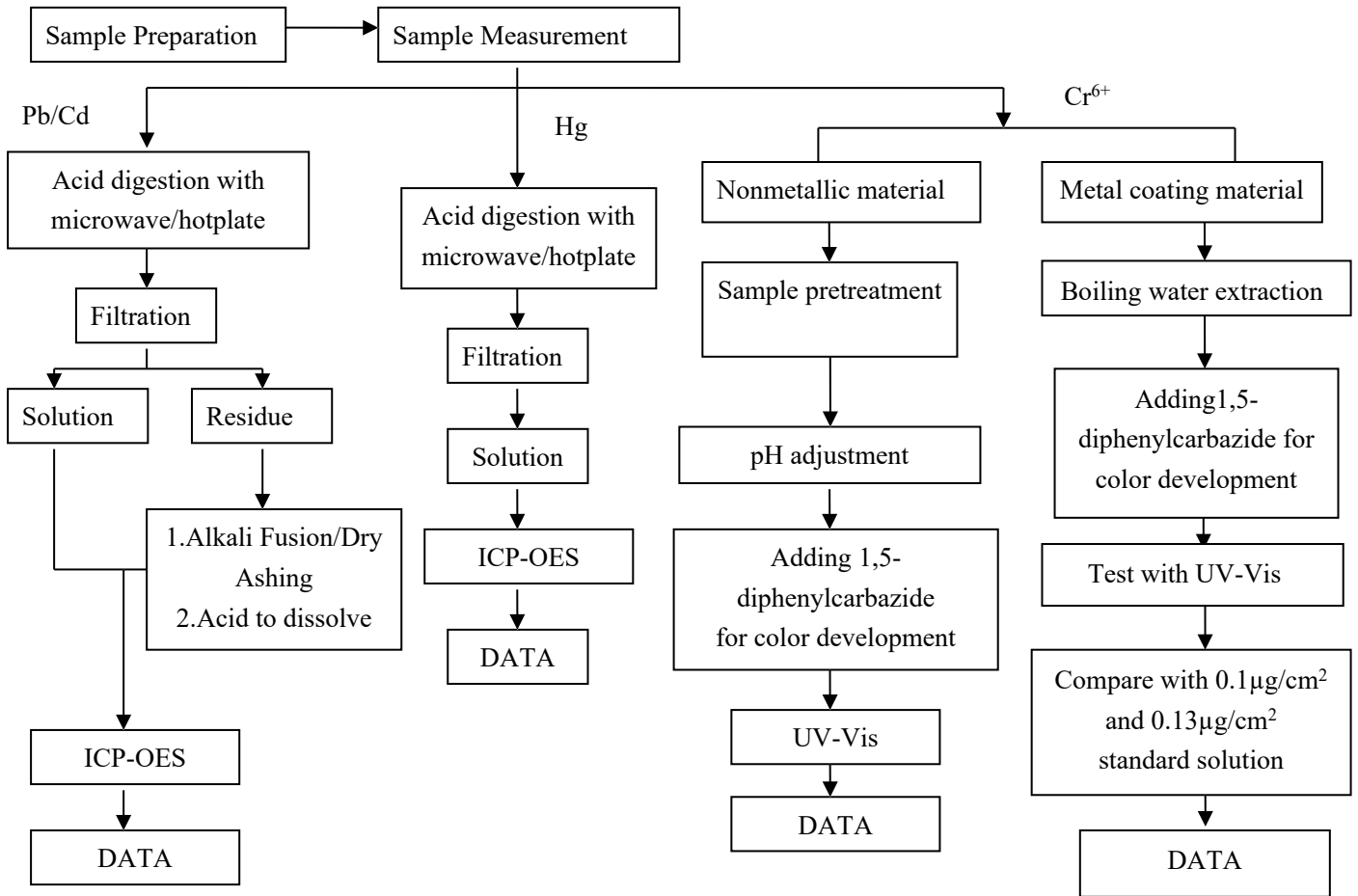
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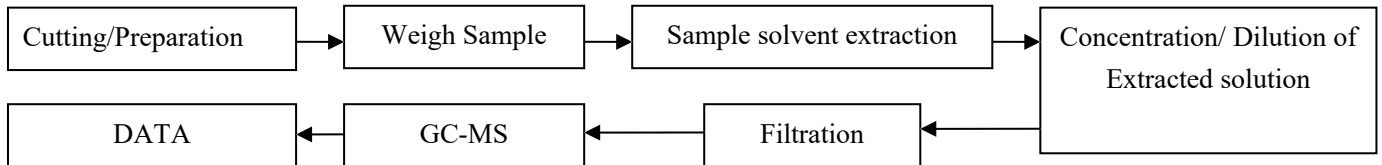
Test Flow Chart

1.For Pb , Cd, Hg, Cr⁶⁺



These sample were dissolved totally by pre-conditioning method according to above flow chart (Cr⁶⁺ test method excluded)

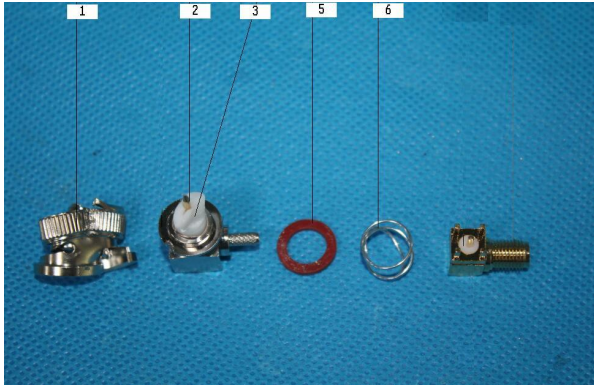
2.For PBBs, PBDEs, DBP, BBP, DEHP, DIBP



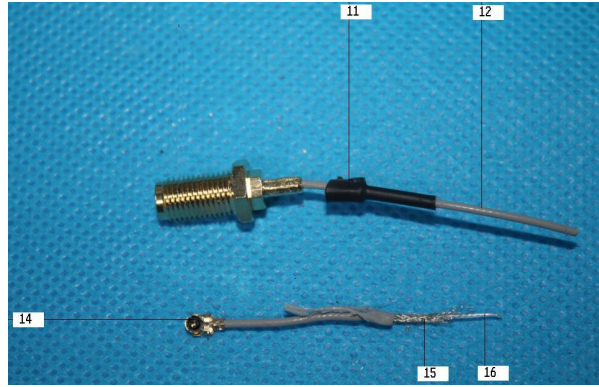
This report is to supersede the report with No.: AGC07686211101-005 dated on Nov.25, 2021.

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The photo of the sample



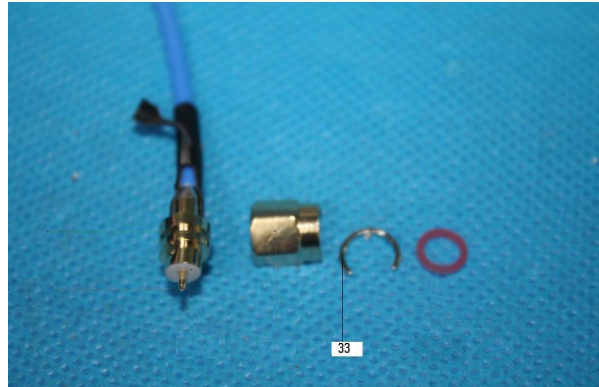
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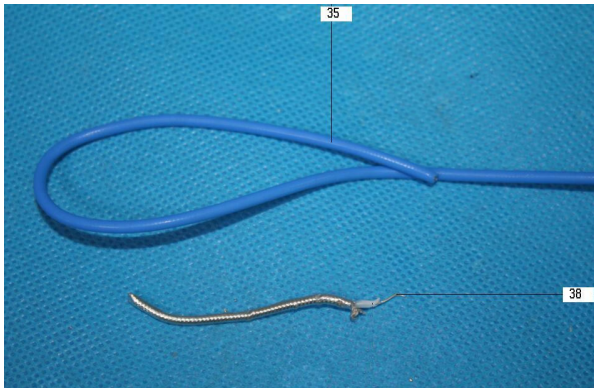
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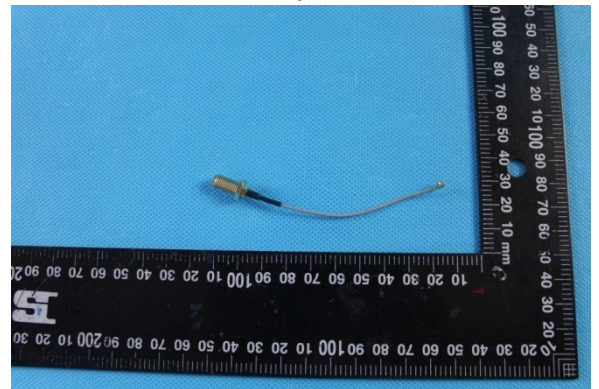
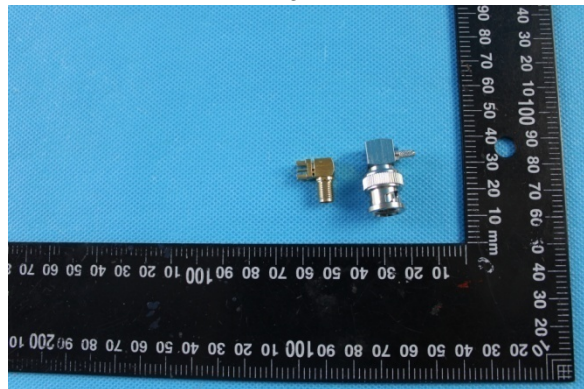
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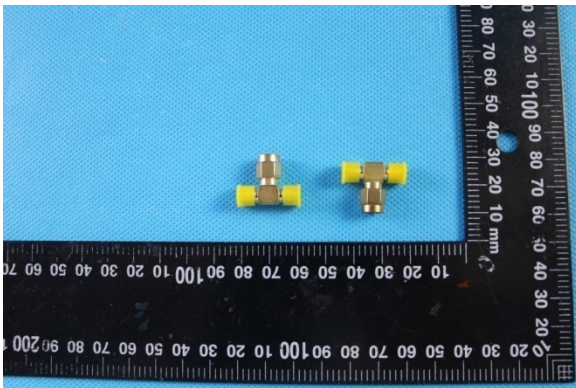
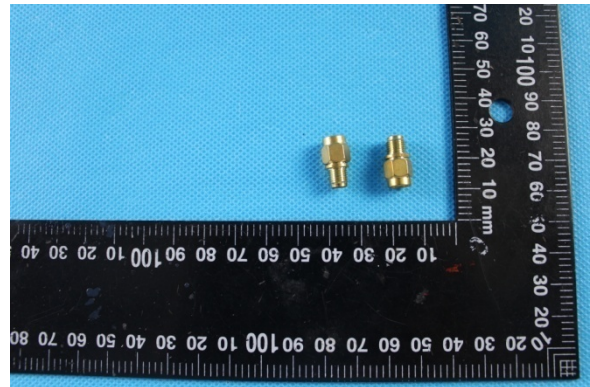
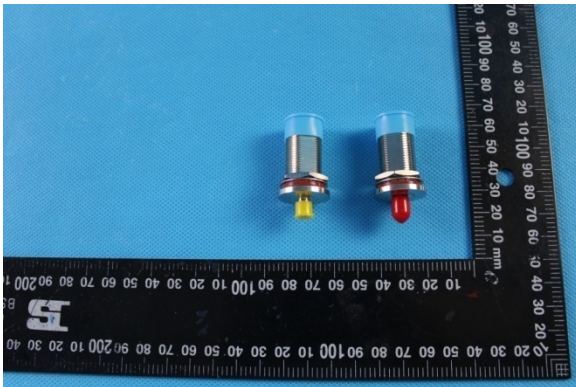
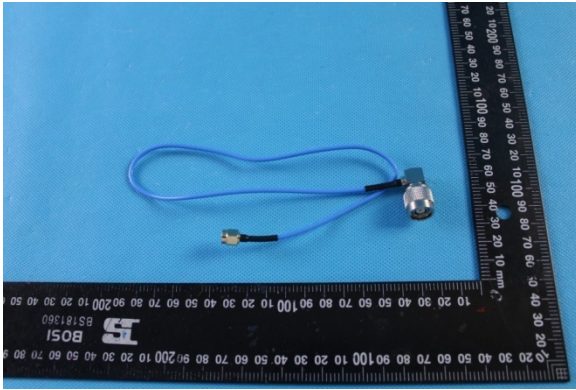
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*** End of Report ***

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