

#### Report No.: AGC07709200701-001

AGC

Date: Jul.08, 2020

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Applicant:	Dongguan Dosin Hardware Electronics Co.,Ltd
Address:	No 5,Xinyuan Fifth Road, Humen Town, Dongguan,Guangdong
Test site:	6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an
8	District, Shenzhen, Guangdong, China
Report on the submi	tted sample(s) said to be:
Sample Name:	SMA connector
Mode No.:	DOSIN-806
Series model.:	SMA connector series
Difference between te model and series model	Appearance and size differences
Supplier:	Dosin
Manufacturer:	Dongguan Dosin Hardware Electronics Co.,Ltd
Address:	No 5,Xinyuan Fifth Road, Humen Town, Dongguan,Guangdong
Sample Received Date	e: Jul.02, 2020
Testing Period:	Jul.02, 2020 to Jul.08, 2020

#### **Test Requested:**

#### Conclusion

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.

Pass





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No.	Sample Description	S	- 6	8		N	
1	3	Copper seat	S	GO	8		
2	Connector	Copper pin		N	- 60	C	
3	E GO	White plastic	8			S	-

#### **Test Result:**

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

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

	Test result (mg/kg)							Construction			
No.	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	Conclusion
1	29573*	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
2	20857*	N.D.	N.D.	N.D.	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

#### Note:

mg/kg = milligram per kilogram

 $\mu$ g/cm<sup>2</sup> = microgram per square centimeter N/A= Not applicable

MDL = Method Detection Limit

#### Exemption

I	No.	Exemption clause	Content
	1,2 💿	6(c)	Copper alloy containing up to 4 % lead by weight

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#### **Remark:**

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- \*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.

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

Boiling-water-extraction:

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	Limit
X-ray Fluorescence Spectrometry(XRF)		8	
Lead (Pb)		200mg/kg	≤1000mg/kg
Cadmium (Cd)		50mg/kg	≤100mg/kg
Mercury (Hg)	IEC 62321-3-1:2013 / XRF	200mg/kg	≤1000mg/kg
Total Chromium		200mg/kg	1
Total Bromine		200mg/kg	/ ®
Wet Chemistry Method	0		e.G
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	$0.1 \mu g/cm^2$	<sub>©</sub> /
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)		50mg/kg	≤1000mg/kg
Dibutyl phthalate (DBP)		50mg/kg	≤1000mg/kg
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	$\leq 1000 \text{mg/kg}$
Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	$\leq 1000 \text{mg/kg}$

Note:

 $\leq$  "= Less than or equal to

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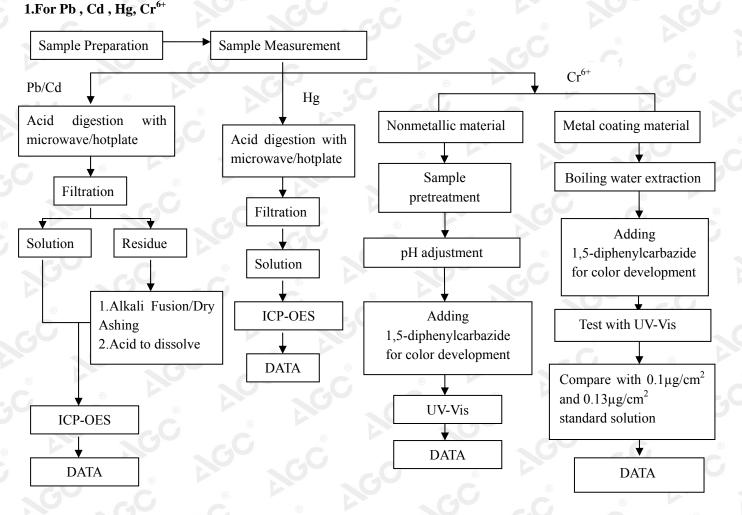


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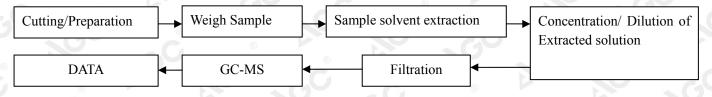
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**Test Flow Chart** 



These sample were dissolved totally by pre-conditioning method according to above flow chart ( $Cr^{6+}$  test method excluded)

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



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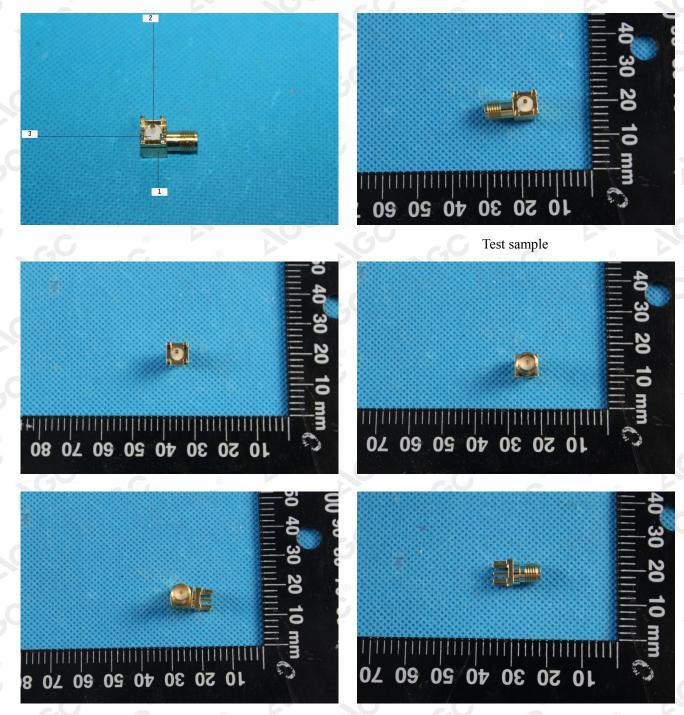


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### The photo of the sample



AGC07709200701-001 AGC authenticate the photo only on original report

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

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