

# **Test Report**

Report No. : AGC07686230401-004

SMA connector cable/ SMB connector cable/ TNC connector cable/

**SAMPLE NAME** : BNC connector cable/ F connector cable/ N connector cable/

MCX connector cable

SMA connector, SMB connector, TNC connector, BNC connector,

**MODEL NAME**: F connector, N connector, MCX connector/

RF connector coaxial cable/ RF connector Antenna

**APPLICANT**: RENHAO WEIYE TECHNOLOGY(WUHAN) CO., LTD

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

**DATE OF ISSUE** : Apr. 28, 2023

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





Applicant : RENHAO WEIYE TECHNOLOGY(WUHAN) CO., LTD

Address : No.555, Wenhua Avenue, Hongshan District 430070, Wuhan City, Hubei, 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 cable/ SMB connector cable/ TNC connector cable/ BNC connector

cable/ F connector cable/ N connector cable/ MCX connector cable

Model : SMA connector, SMB connector, TNC connector, BNC connector, F connector,

N connector, MCX connector/RF connector coaxial cable/RF connector Antenna

Manufacturer : Dongguan Dosin Precision Industry Co., Ltd

Address : No 2, Xizheng 2nd Road, Shajiao, Humen Town, Dongguan,523936

Guangdong

Supplier : Renhotec Sample Received Date : Apr. 10, 2023

Testing Period : Apr. 10, 2023 to Apr. 24, 2023

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

Test Requested: Conclusion

2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 - Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Pass

Approved by : Jessie lians

Liangdan, Jessie.Liang

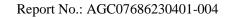
Technical Director



Report Revise Record

Report No.:	AGC07686230401-004

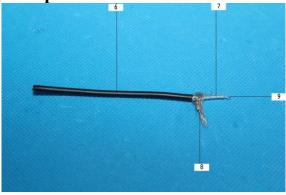
Report Version	Issued Date	Valid Version	Notes
/	Apr. 28, 2023	Valid	Initial release



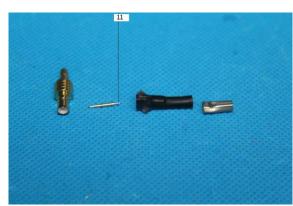


The photo of the sample







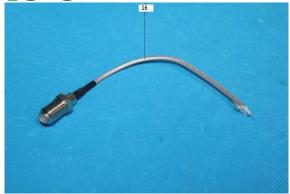


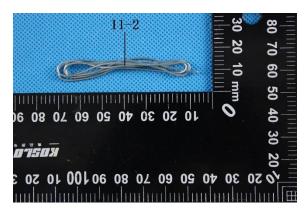






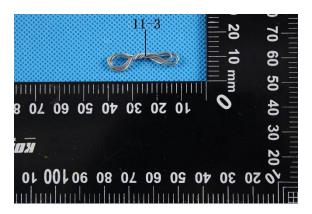




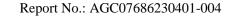








The photo of AGC07686230401-004 is for use only with the original report.





Test point	Test module	Test parts	Test point description
	ctor cable/ SMB conr r cable/ MCX connect		nector cable/ BNC connector cable/ F connector cable/
1			Metal joint
2			Milk white plastic
3		Joint	Metal threaded ring joint
4			Wire buckle
5			Black heat shrink tubing
6			Black outer wire jacket
7		Wire rod	Transparent wire jacket
8			Metallic braided wire
9			Conductor
10		Plug	Red sealing ring
11		Plug	Solder
12		Wire rod	Transparent outer wire jacket
13		Tains	Metal joint
14		Joint	Metal gear ring
15		Plug	Milk white plastic
16			Transparent outer wire jacket
11-2			Solder
11-3			Solder

Note: "---" = The test point exists alone in the sample and is not attached to the test module or test parts.



Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

## 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863

## - Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Test Item	Test Method/ Instrument	MDL	Maximum Limit
Lead (Pb)		/	1000mg/kg
Cadmium (Cd)		/	100mg/kg
Mercury (Hg)	IEC 62321-3-1:2013/ XRF	/	1000mg/kg
Total Chromium		/	/
Total Bromine		/	/
Chemistry Method		L	
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	2mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	2mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	2mg/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>	/
-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	1000mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	1000mg/kg



Test point	Test	Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	C07686230401-00
	I		IN	34978	
	(	Cd	BL	/	
	F	Ig	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
1	Br	PBBs PBDEs	N/A	/	Conformity Exemption
	DI	BP	N/A	/	clause 6(c)
		BP	N/A	/	
		BP	N/A	/	
		ЕНР	N/A	/	
		Pb	BL	/	
		Cd Cd	BL	/	
		Ig	BL	/	
		Cr <sup>6+</sup> )	BL	/	
2	Br	PBBs PBDEs	BL	/	Conformity
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
		EHP	N/A	N.D.	
		Pb	IN	33262	
		Cd Cd	BL	/	
		Ig	BL	/	
		Cr <sup>6+</sup> )	BL	/	
3	Br	PBBs PBDEs	N/A	/	Conformity Exemption
	Dl	BP	N/A	/	clause 6(c)
		BP	N/A	/	
		BP	N/A	/	
		EHP	N/A	/	
		Pb	BL	/	
		Cd Cd	BL	/	
		Ig	BL	/	
		Cr <sup>6+</sup> )	BL	/	
<u> </u>		PBBs		/	
4	Br	PBDEs	N/A	/	Conformity
-	Di	BP	N/A	/	
-		BP	N/A	/	
-		BP	N/A	,	
-		EHP	N/A	,	



Test point	Test	Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	F	<b>P</b> b	BL	/	
	(	Cd	BL	/	
	F	Ig	BL	/	
	Cr(0	Cr <sup>6+</sup> )	BL	/	
<u>_</u>		PBBs	D.I.	N.D.	G C :
5	Br	PBDEs	IN	N.D.	Conformity
	DI	BP	N/A	N.D.	
	D	BP	N/A	N.D.	
	B	BP	N/A	N.D.	
	DE	ЕНР	N/A	N.D.	
	F	<b>P</b> b	BL	/	
	(	Cd	BL	/	
	H	Ig	BL	/	
		Cr <sup>6+</sup> )	BL	/	
		PBBs		/	
6	Br	PBDEs	BL	/	Conformity
	DIBP		N/A	N.D.	
	DBP		N/A	215	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
		Pb	BL	/	
		Cd Cd	BL	/	
		Ig	BL	/	
	Cr(C	$\operatorname{Cr}^{6+}$ )	BL	/	
7	Br	PBBs PBDEs	BL	/	Conformity
	DI	BP	N/A	N.D.	
		BP	N/A	N.D.	
		BP	N/A	N.D.	
	DEHP		N/A	N.D.	
		Pb	BL	/	
		Cd Cd	BL	/	
		lg	BL	/	
		Cr <sup>6+</sup> )	BL	/	
<u> </u>		PBBs		/	
8	Br PBDEs		N/A	/	Conformity
-	DI	BP	N/A	,	
-		BP	N/A	/	
<u> </u>		BP	N/A	,	
-		EHP	N/A	/	



Test point	Tes	t Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	Pb		BL	/	
Ī	(	Cd	BL	/	
		Hg	BL	/	
	Cr(	(Cr <sup>6+</sup> )	BL	/	
9	Br	PBBs PBDEs	N/A	/	Conformity
	D	IBP	N/A	/	
		)BP	N/A	/	
	E	BBP	N/A	/	
	D	ЕНР	N/A	/	
		Pb	BL	/	
		Cd	BL	/	
	]	Hg	BL	/	
		$(Cr^{6+})$	BL	/	
10	Br	PBBs PBDEs	BL	/	Conformity
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
		Pb	BL	/	
	(	Cd	BL	/	
		Hg	BL	/	
		(Cr <sup>6+</sup> )	BL	/	
11	Br	PBBs PBDEs	N/A	/	Conformity
	D	·IBP	N/A	/	
		)BP	N/A	/	
	BBP		N/A	/	1
_		ЕНР	N/A	/	
		Pb	BL	/	
ļ		Cd	BL	/	
	]	Hg	BL	/	
		$(Cr^{6+})$	BL	/	
12	Br	PBBs PBDEs	BL	/	Conformity
-	D	IBP	N/A	N.D.	
-		)BP	N/A	N.D.	
-		BBP	N/A	N.D.	
		EHP	N/A	N.D.	



Test point	Tes	t Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
		Pb	IN	39	
		Cd	BL	/	
		Hg	BL	/	
		$(Cr^{6+})$	BL	/	
12		PBBs	27/4	/	
13	Br	PBDEs	N/A	/	Conformity
	Г	OIBP	N/A	/	
	Ι	OBP	N/A	/	
	F	3BP	N/A	/	
	D	EHP	N/A	/	
		Pb	BL	/	
		Cd	BL	/	
		Hg	BL	/	
		(Cr <sup>6+</sup> )	BL	/	
1.4	D	PBBs	27/4	/	
14	Br	PBDEs	N/A	/	Conformity
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
		Pb	BL	/	
		Cd	BL	/	
		Hg	BL	/	
		(Cr <sup>6+</sup> )	BL	/	
1.5		PBBs	DI	/	G 6
15	Br	PBDEs	BL	/	Conformity
	Γ	OIBP	N/A	N.D.	
	Ι	OBP	N/A	N.D.	
	F	3BP	N/A	N.D.	
	D	ЕНР	N/A	N.D.	
		Pb	BL	/	
		Cd	BL	/	
		Hg	BL	/	
		(Cr <sup>6+</sup> )	BL	/	
16		PBBs		/	CC :
16	Br PBDEs		BL	/	Conformity
	Г	DIBP	N/A	N.D.	
		OBP	N/A	N.D.	
		BBP	N/A	N.D.	
_		ЕНР	N/A	N.D.	



TD:4		T4	X-ray Fluorescence	Wet Chemistry	C 1
Test point	Test Item		Spectrometry (XRF)	Method	Conclusion
			mg/kg	mg/kg	
	I	Pb	BL	/	
	(	Cd	BL	/	
	I	Ig	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
11-2	Br	PBBs	N/A	/	Conformity
11-2	ВГ	PBDEs	IN/A	/	Conformity
	DI	BP	N/A	/	
	DBP		N/A	/	
	BBP	BP	N/A	/	1
	DEHP		N/A	/	
	Pb		BL	/	
	(	Cd	BL	/	
	I	Ig	BL	/	
	Cr(C		BL	/	
11-3	11-3 Br	PBBs	N/A	/	Conformity
11-3	DI	PBDEs	IN/A	/	Conformity
	DIBP		N/A	/	
	DBP		N/A	/	
	В	BP	N/A	/	
	DH	ЕНР	N/A	/	

Remark: The results of the following test points was submitted on Apr.20, 2023:11

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤50-3σ <x &lt;150+3σ≤OL</x 
Pb	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Hg	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td>N/A</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	N/A	BL≤250-3σ <x< td=""></x<>

#### Remark:

- (1) BL= Below Limit, OL= Over limited, IN = Inconclusive, Scanning by XRF and detected by chemical method, N/A = Not applicable.
- (2) Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value.
- (3) The XRF scanning test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.



(4) Boiling-water-extraction:(X represents the results of the tested sample)

` '	` 1	1 /
Number	Colorimetric result (Cr(VI) concentration)	Judgement
1	$X \le 0.1 \mu g/cm^2$	Negative
2	$0.1 \mu g/cm^2 \le X \le 0.13 \mu g/cm^2$	Uncertainty
3	$X > 0.13 \mu g/cm^2$	Positive

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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.

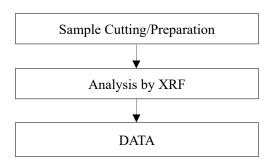
Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

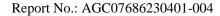
Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

(5) Disclaimers: 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.

Exemption clause	Exemption
6(c)	Copper alloy containing up to 4 % lead by weight

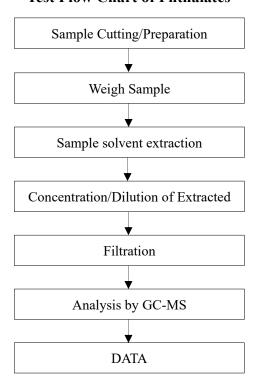
#### Test Flow Chart of XRF

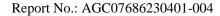






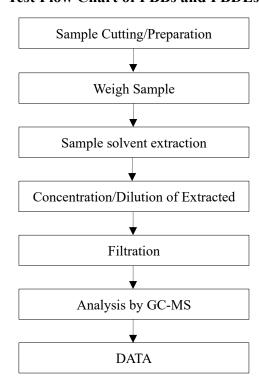
## **Test Flow Chart of Phthalates**

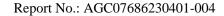






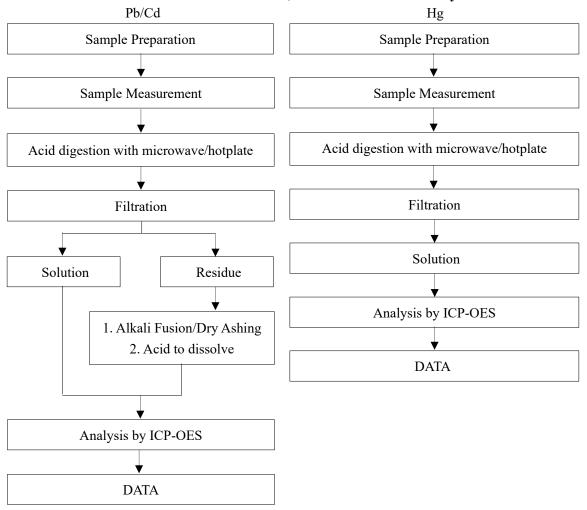
## **Test Flow Chart of PBBs and PBDEs**







## Test Flow Chart of Lead, Cadmium and Mercury



These sample were dissolved totally by pre-conditioning method according to above flow chart



## Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
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- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations. 7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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