

Test Report No. XMNML1901705327 Date: 11 Dec 2019 Page 1 of 13

HOLLYLAND(CHINA) ELECTRONICS TECHNOLOGY CORPORATION LIMITED & HOLLYLAND(XIAMEN) TECHNOLOGY CORPORATION LIMITED

NO.829, FANGSHAN EAST 2ND ROAD, XIANG'AN, XIAMEN, CHINA

Results and photos of No.058 and No.059 in this report refer to No.005 and No.006 in test report XMNML1901637201;

Results and photos of No.060 in this report refer to No.007 in test report XMNML1901637202; Results and photos of No.049~054 in this report refer to test report XMNML1901703501.

The following sample(s) was/were submitted and identified on behalf of the clients as: Material for: 25F/25T/4NT Series

SGS Job No.: XMIN1911008452PC - XM

Date of Second Sample

Received:

No.052 was received in 11 Dec 2018

Date of Sample Received: 22 Nov 2019

Testing Period: 22 Nov 2019 - 06 Dec 2019

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).

Based on the performed tests on selected part of submitted sample(s), the Conclusion:

> results of Cadmium, Lead, Mercury, 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. Xiamen Branch

中国・福建・厦门市火炬(翔安)产业区翔虹路31号

Rae Chen

Approved Signatory

Rae chem





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Test Results:

#### Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	XMN19-017053.049	Grey solder paste(said to be "solder")
SN2	XMN19-017053.050	Brassy metal cap(said to be"cap 1")
SN3	XMN19-017053.051	Copper-colored metalcap(after removed silver-white plating)(said to be"cap 2")
SN4	XMN19-017053.052	Silver-white metal plating on metal(said to be"The Plating of Cap 2")
SN5	XMN19-017053.053	White ceramic tube(said to be"ceramic tube")
SN6	XMN19-017053.054	Black plastic tube(said to be"plastic tube")
SN7	XMN19-017053.058	Silvery metal wire(said to be"Element")
SN8	XMN19-017053.059	White thread(said to be"Glass fiber")
SN9	XMN19-017053.060	Lt-brown sand(said to be"White Sand")

#### Remarks:

- (1) 1 mg/kg = 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)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>049</u>	<u>053</u>	<u>054</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	124	ND	6
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>049</u>	<u>053</u>	<u>054</u>
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>059</u>	<u>060</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	
Lead (Pb)	1,000	mg/kg	2	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	
Sum of PBBs	1,000	mg/kg	-	ND	ND	
Monobromobiphenyl	-	mg/kg	5	ND	ND	
Dibromobiphenyl	-	mg/kg	5	ND	ND	
Tribromobiphenyl	-	mg/kg	5	ND	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>059</u>	<u>060</u>	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	

#### Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. 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:12586
- (2) 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.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.
- (4) The result(s) of No.049 shown are of the total weight of dried sample.

#### 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 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>050</u>	<u>051</u>	<u>058</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	37	35	13
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	_	ua/cm²	0.10	ND	ND	ND

#### Notes:

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



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- (2) ▼= 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  $\mu$ g/cm2). The coating is considered a non-CrVI based coating
  - c. The result between 0.10  $\mu$ g/cm2 and 0.13  $\mu$ g/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.

### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>052</u>
Cadmium (Cd)	100	mg/kg	10	ND
Lead (Pb)	1,000	mg/kg	10	67
Mercury (Hg)	1,000	mg/kg	10	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND

#### Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. 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
- (2) ▼= 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  $\mu$ g/cm2). The coating is considered a non-CrVI based coating
  - c. The result between 0.10  $\mu$ g/cm2 and 0.13  $\mu$ g/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.

Remark: The test was subcontracted to SGS Guangzhou chemical lab.



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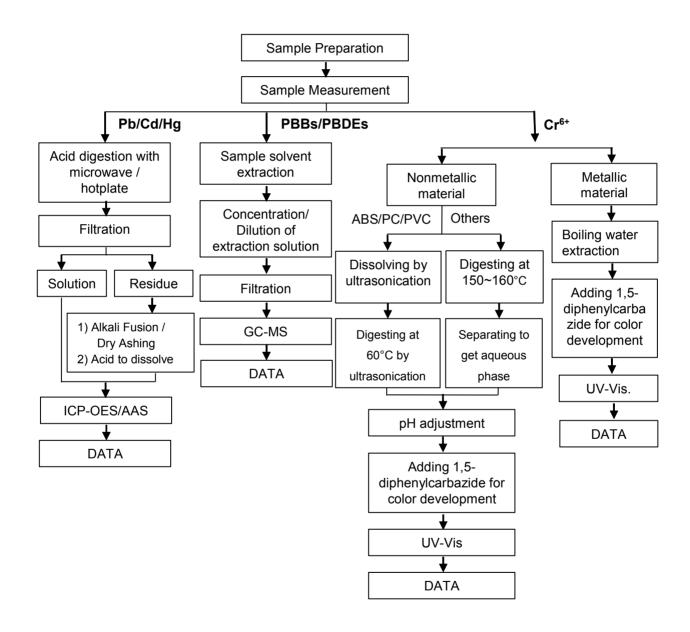
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#### **ATTACHMENTS**

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

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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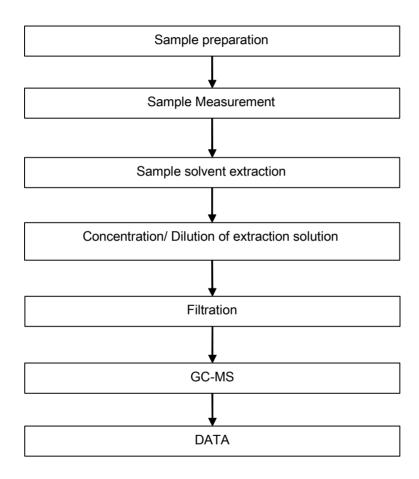
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### **Phthalates Testing Flow Chart**





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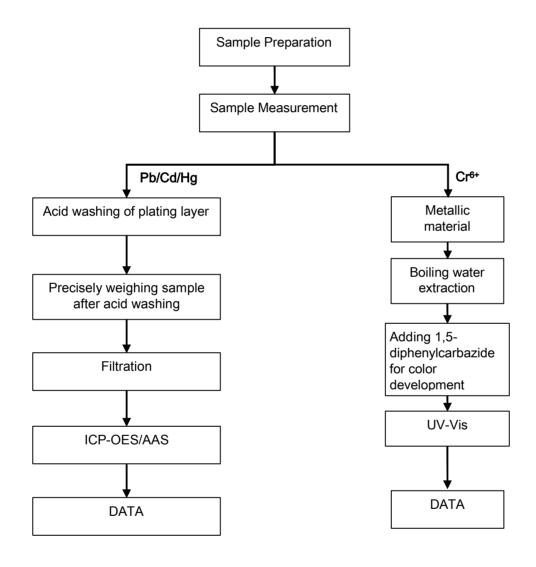
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#### **ATTACHMENTS**

### Plating Pb/Cd/Hg/Cr6+Testing Flow Chart





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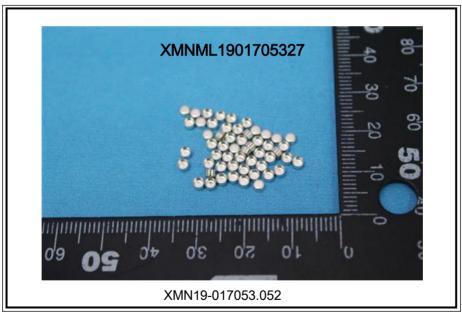
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