







Report No. A2220128262101001

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Company Name shown on Report	MIWARE SEMICONDUCTOR (SHANGHAI) CO.LTD.				
Address	O.3387 SHENDU RODA PUJIANG MINHANG SHANGHAI CHINA				
The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant					
Sample Name	GAS DISCHARGE TUBE				
Part No.	SMD1206,SMD1210,SMD1812,SMD5042,2D-5,2D-8,3D-5,3D-6,3D-8,SMD5042, SMD5057,2R-5,R-5,2R-8,3R-5,3R-6,3R-7,3R-8				
Sample Received Da	tte Apr. 6, 2022				
Testing Period	Apr. 6, 2022 to Apr. 11, 2022				
Test Requested	As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) in the submitted sample(s).				
Test Method	Please refer to the following page(s).				
Test Result(s)	Please refer to the following page(s).				

prov 专用章 ectionentering Services International Group Co., Ltd.

Kid Zhang Hill Zhang

Hill Zheng

Reviewed by

fleten Liu

Date

Apr. 11, 2022

No. R158921838

Technical Manager

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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Test Method			
	Test Item(

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))*	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)*	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)*	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)*	IEC 62321-8:2017	GC-MS
Fluorine (F)	Refer to EN 14582:2016	IC
Chlorine (Cl)	Refer to EN 14582:2016	IC
Bromine (Br)	Refer to EN 14582:2016	IC
Iodine (I)	Refer to EN 14582:2016	IC



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Test Result(s)				
Tested Item(s)	Result	MDL		
Lead(Pb)	N.D.	2 mg/kg		
Cadmium(Cd)	N.D.	2 mg/kg		
Mercury(Hg)	N.D.	2 mg/kg		
Hexavalent Chromium(Cr(VI))*	N.D.	8 mg/kg		
Tested Item(s)	Result	MDL		
Polybrominated Biphenyls (PBBs)*				
Monobromobiphenyl	N.D.	5 mg/kg		
Dibromobiphenyl	N.D.	5 mg/kg		
Tribromobiphenyl	N.D.	5 mg/kg		
Tetrabromobiphenyl	N.D.	5 mg/kg		
Pentabromobiphenyl	N.D.	5 mg/kg		
Hexabromobiphenyl	N.D.	5 mg/kg		
Heptabromobiphenyl	N.D.	5 mg/kg		
Octabromobiphenyl	N.D.	5 mg/kg		
Nonabromobiphenyl	N.D.	5 mg/kg		
Decabromobiphenyl	N.D.	5 mg/kg		
Tested Item(s)	Result	MDL		
Polybrominated Diphenyl Ethers (PBDEs)*				
Monobromodiphenyl ether	N.D.	5 mg/kg		
Dibromodiphenyl ether	N.D.	5 mg/kg		
Tribromodiphenyl ether	N.D.	5 mg/kg		
Tetrabromodiphenyl ether	N.D.	5 mg/kg		
Pentabromodiphenyl ether	N.D.	5 mg/kg		
Hexabromodiphenyl ether	N.D.	5 mg/kg		
Heptabromodiphenyl ether	N.D.	5 mg/kg		
Octabromodiphenyl ether	N.D.	5 mg/kg		
Nonabromodiphenyl ether	N.D.	5 mg/kg		
Decabromodiphenyl ether	N.D.	5 mg/kg		

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Test Result(s)					
Tested Item(s)	Result	MDL			
Phthalates (DBP, BBP, DEHP, DIBP)*					
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg			
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg			
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg			
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg			
Tested Item(s)	Result	MDL			
Fluorine(F)	N.D.	10 mg/kg			
Chlorine(Cl)	N.D.	10 mg/kg			
Bromine(Br)	N.D.	10 mg/kg			
Iodine(I)	N.D.	10 mg/kg			

Sample/Part Description Mixed test, silvery metal and white ceramic

Remark: -The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury. -As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.

-Information Statement:Different Part No. with different buyer.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million

Note:

*indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.

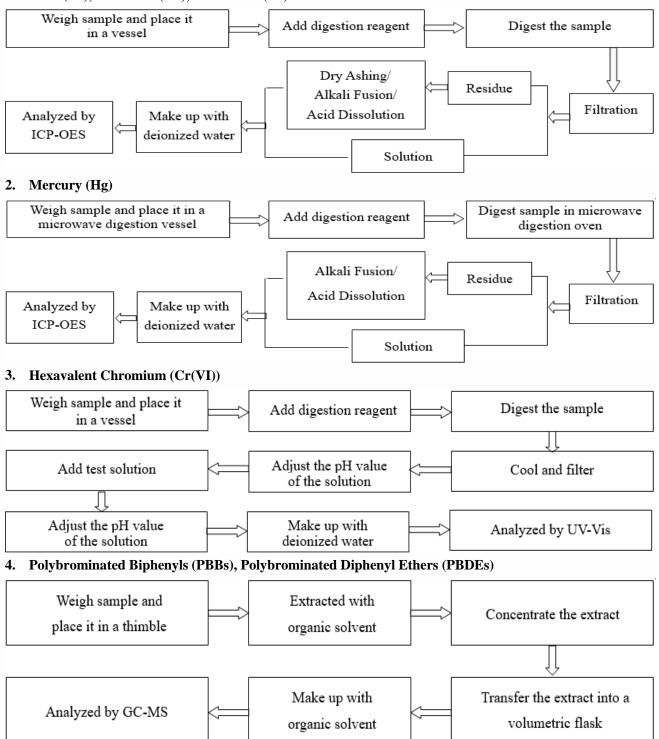
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Test Process

1. Lead (Pb), Cadmium (Cd), Chromium (Cr)

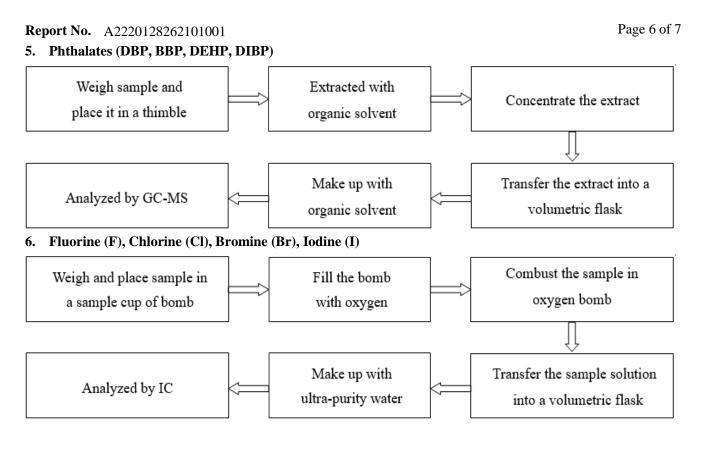


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Test Report





Photo(s) of the sample(s)



Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

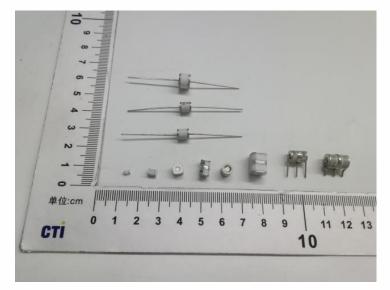
*** End of report ***

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Appendix

Client Reference Photo (Non-tested sample)



Statement:

- 1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
- 2. The Appendix Information is/are the supplement(s) for the Report A2220128262101001.