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Company Name UNIMICRON (SUZHOU) TECHNOLOGY CORP.

shown on Report

Address NO. 160 FENGLI ST. SUZHOU INDUSTRIAL PARK, JIANGSU

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name(s) Au Plating layer Part No. Au Plating layer Material Au Plating layer

Supplier **UMTC**

Sample Received Date Aug. 16, 2021

Testing Period Aug. 16, 2021 to Aug. 21, 2021

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), Arsenic(As), Beryllium(Be), Antimony(Sb), Hexabromocyclododecane (HBCDD), Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) in the submitted sample(s).

Test Method/Test Result(s) Please refer to the following page(s).

Tested

检验检测专用章

Reviewed by

Date

Hu Wei

Aug. 21, 2021

Chen kaimin

Lab Manager

No. R460051122

No.1351, Wanfang Road, Minhang District, Shanghai, China

Centre Testing International Pinbiao(Shanghai) Co., Ltd.



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Test Method

Tested Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	Refer to IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	Refer to IEC 62321-5:2013	ICP-OES
Mercury (Hg)	Refer to IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
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
A:-(A -)	Refer to US EPA 3050B:1996 &	ICP-OES
Arsenic(As)	US EPA 6010D:2018	ICP-OES
Beryllium(Be)	Refer to US EPA 3050B:1996 &	ICP-OES
Berymun(Be)	US EPA 6010D:2018	ICP-OES
Antimony(Sb)	Refer to US EPA 3050B:1996 &	ICP-OES
Anumony(Sb)	US EPA 6010D:2018	ICP-OES
Havahrama ayala da dagana (HBCDD)	Refer to US EPA 3550C:2007 &	GC-MS
Hexabromocyclododecane (HBCDD)	US EPA 8270E:2018	GC-IVIS
Perfluorooctane Sulfonates(PFOS)	Refer to CEN/TS 15968:2010	LC-MS-MS/LC-MS
Perfluorooctanoic Acid(PFOA)	Refer to CEN/TS 15968:2010	LC-MS-MS/LC-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

Test Result(s)

Tested Item(s)	Result	MDL
resteu rtem(s)	001	MIDL
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium	N.D. [▼]	0.10 ya/am 2(I.OO)
(Cr(VI))	N.D.	0.10 μg/cm ² (LOQ)



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Tested Item(s)	Result	MDL
	001	— NIDL
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
rested tem(s)	001	MIDL
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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Tested Item(s)	Result	- MDL
Tested Helli(s)	001	- WIDL
Phthalates (DBP, BBP, DEHP, D	IBP)	
Dibutyl phthalate (DBP)	N.D.	50 mg/kg
CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg
CAS#:85-68-7	N.D.	
Di-(2-ethylhexyl) phthalate	N.D.	50 ma/lra
(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	50 mg/kg
CAS#:84-69-5	N.D.	50 mg/kg

Tested Item(s)	Result	MDL
rested item(s)	001	MIDL
Arsenic (As)	N.D.	10 mg/kg

Tested Item(s)	Result	MDL
	001	WIDE
Beryllium (Be)	N.D.	10 mg/kg

Tested Item(s)	Result	MDL
	002	WIDE
Antimony (Sb)	N.D.	2 mg/kg

Tested Item(s)	Result 001	MDL
Hexabromocyclododecane (HBCDD)	N.D.	5 mg/kg



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Tested Item(s)	Result 001	MDL
Perfluorooctane Sulfonates (PFOS)	N.D.	$0.5~\mu g/m^2$

Tested Item(s)	Result	MDL
rested rem(s)	001	MIDL
Perfluorooctanoic Acid (PFOA)	N.D.	0.5 μg/m²

Tested Item(s)	Result	MDL
rested rem(s)	001	MIDE
Fluorine (F)	N.D.*	50 mg/kg
Chlorine (Cl)	N.D.*	50 mg/kg
Bromine (Br)	N.D.*	50 mg/kg
Iodine (I)	N.D.*	50 mg/kg

Sample/Part Description

001 Golden plating

002 Metal with golden plating

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Arsenic, Beryllium, Antimony.

- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL or LOQ)
- -mg/kg = ppm = parts per million
- -LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
- -▼The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating.
- -*=The value is converted from the test result with the density and thickness provided by client (Density =19.3g/cm 3 , thickness=2.63 μ m).

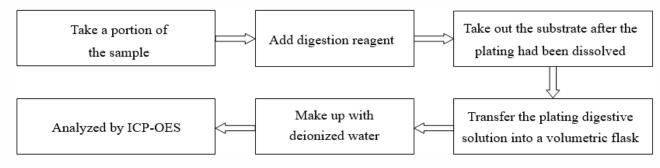


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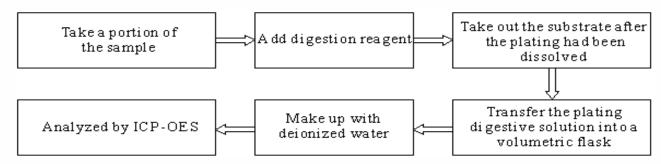
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Test Process

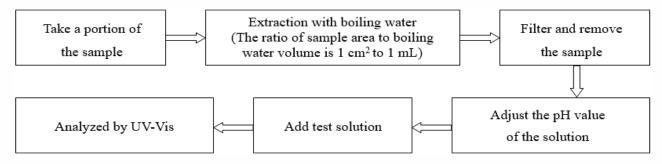
1. Lead (Pb), Cadmium (Cd)



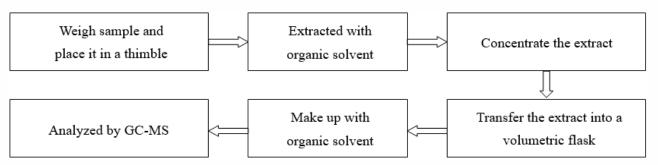
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

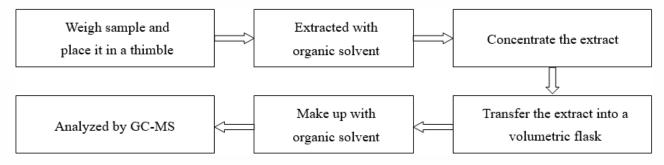




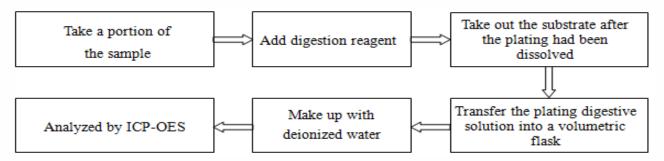
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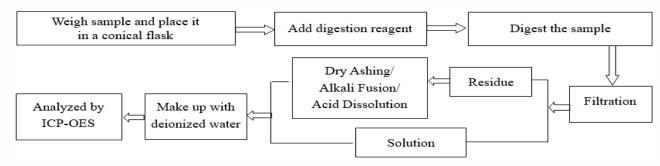
5. Phthalates (DBP, BBP, DEHP, DIBP)



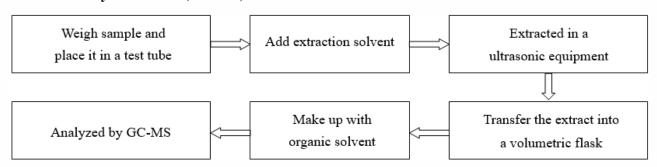
6. Arsenic(As), Beryllium(Be)



7. Antimony(Sb)



8. Hexabromocyclododecane (HBCDD)

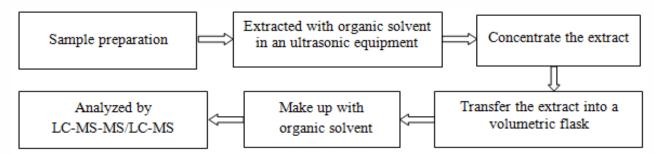




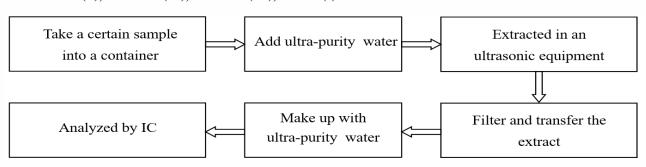
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9. Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA)



10. Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)

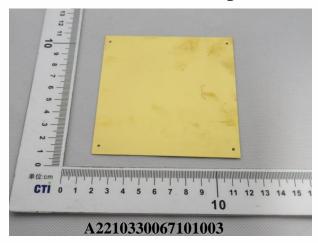


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Photo(s) of the sample(s)



Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 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;
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*** End of Report ***