

Test Report

Report No.: DGC190411011YE

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Applicant : LEILONG DEVELOPMENT LIMITED
Address : UNIT D 16/F ONE CAPITAL PLACE 18 LUARD ROAD WAN CHAI HK

The following sample(s) was/were submitted and identified on behalf of the client as:

Product Name : SD NAND
Model No. : CSNP1GCR01-BMW, CSNP1GTR01-BMW, CSNP1GCR01-AMW,
CSNP1GTR01-AWM, CSNP4GCR01-BMW, CSNP4GTR01-BMW,
CSNP4GCR01-AMW, CSNP4GTR01-AMW, CSNP32GCR01-BMW,
CSNP32GTR01-BMW, CSNP32GCR01-AMW, CSNP32GTR01-AMW
Lot No. : TXW01PZ
Manufacturer : CHUANG SHI SCIENCE AND TECHNOLOGY LIMITED
Address : No 1206, B Block, Zhantao Science and Technology Building, minzhi Avenue,
Longhua District, Shenzhen City i

Date of Sample Received : Apr. 11, 2019
Test period : Apr. 11, 2019 - Apr. 16, 2019

Test requested

In accordance with RoHS Directive 2011/65/EU and amendment 2015/863/EU, to determine Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr⁶⁺), PBBs/PBDEs, Di (2-ethyl hexyl)-phthalate (DEHP), Dibutyl phthalate (DBP), Butylbenzyl phthalate (BBP), Diisobutyl phthalate (DIBP) content on submitted samples.

Test method : Please refer to next page.

Test result : Please refer to next page.

Tested by:

George Zhang
(Senior Engineer)

Reviewed by:

Tammy He
(Supervisor)

**Approved by:**

Caby Yang
(Technical director)

Date:

Apr. 16, 2019

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Test results:

Test Items	Test methods	Unit	MDL	Results	RoHS Limit
				No.1	
Cadmium (Cd)	With reference to IEC 62321-5: 2013, test by ICP-OES	mg/kg	2	N.D.	100
Lead (Pb)				N.D.	1000
Mercury (Hg)	With reference to IEC 62321-4: 2013, test by ICP-OES	mg/kg	2	N.D.	1000
Chromium (Cr ⁶⁺) by Alkaline extraction	With reference to IEC 62321-7-2:2017, test by UV-Vis	mg/kg	2	N.D.	1000
Sum of PBBs	With reference to IEC 62321-6: 2015, test by GC-MS	mg/kg	---	N.D.	1000
Monobromobiphenyl		mg/kg	5	N.D.	---
Dibromobiphenyl		mg/kg	5	N.D.	---
Tribromobiphenyl		mg/kg	5	N.D.	---
Tetrabromobiphenyl		mg/kg	5	N.D.	---
Pentabromobiphenyl		mg/kg	5	N.D.	---
Hexabromobiphenyl		mg/kg	5	N.D.	---
Heptabromobiphenyl		mg/kg	5	N.D.	---
Octabromobiphenyl		mg/kg	5	N.D.	---
Nonabromobiphenyl		mg/kg	5	N.D.	---
Decabromobiphenyl		mg/kg	5	N.D.	---
Sum of PBDEs		mg/kg	---	N.D.	1000
Monobromobiphenyl ether		mg/kg	5	N.D.	---
Dibromobiphenyl ether		mg/kg	5	N.D.	---
Tribromobiphenyl ether		mg/kg	5	N.D.	---
Tetrabromobiphenyl ether		mg/kg	5	N.D.	---
Pentabromobiphenyl ether		mg/kg	5	N.D.	---
Hexabromobiphenyl ether		mg/kg	5	N.D.	---
Heptabromobiphenyl ether		mg/kg	5	N.D.	---
Octabromobiphenyl ether		mg/kg	5	N.D.	---
Nonabromobiphenyl ether	mg/kg	5	N.D.	---	
Decabromobiphenyl ether	mg/kg	5	N.D.	---	
Di (2-ethyl hexyl)-phthalate (DEHP)	With reference to IEC 62321-8: 2017, test by GC-MS	mg/kg	30	N.D.	1000
Butylbenzyl phthalate (BBP)		mg/kg	30	N.D.	1000
Dibutyl phthalate (DBP)		mg/kg	30	N.D.	1000
Diisobutyl phthalate (DIBP)		mg/kg	30	N.D.	1000

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Test Part Description:

No.1: Black chip (the whole sample mixture test)

Note:

- (1) mg/kg=ppm=0.0001%;
- (2) N.D.=Not Detected(<MDL);
- (3) MDL=Method Detection Limit;
- (4) “---”=Not Conducted;
- (5) Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely;
- (6) The client specifies the whole sample mixture test.

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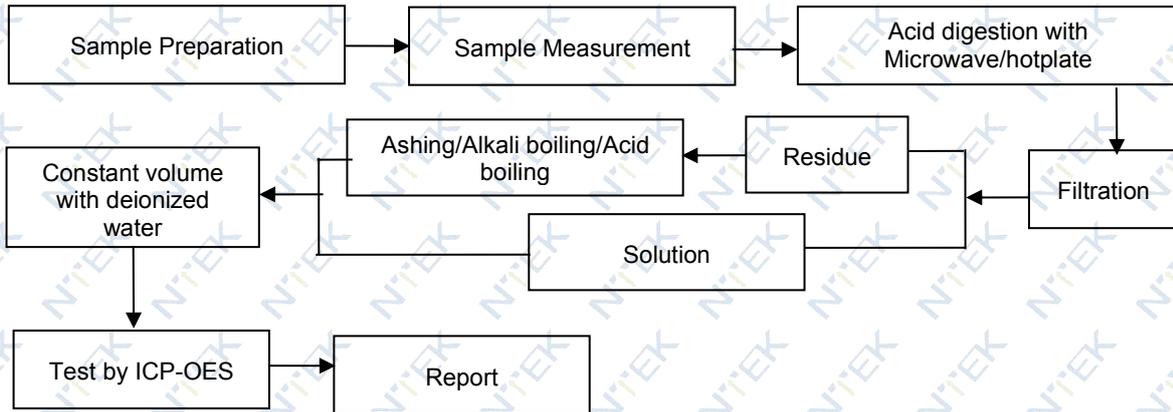
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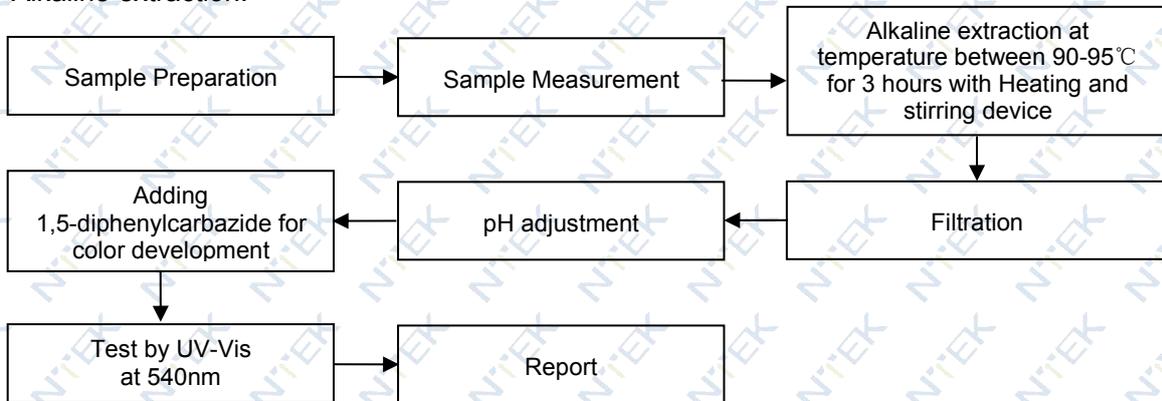
Operation Flow Chart:

1. To Determine Lead, Cadmium, Mercury:

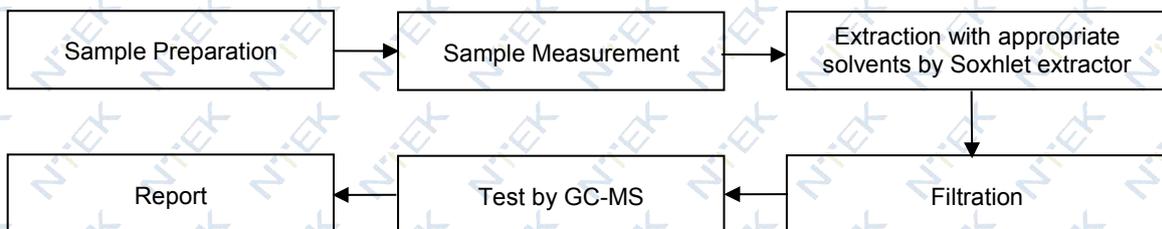


2. To Determine Cr⁶⁺:

Alkaline extraction:



3. To Determine PBBs/PBDEs, DEHP, BBP, DBP, DIBP:



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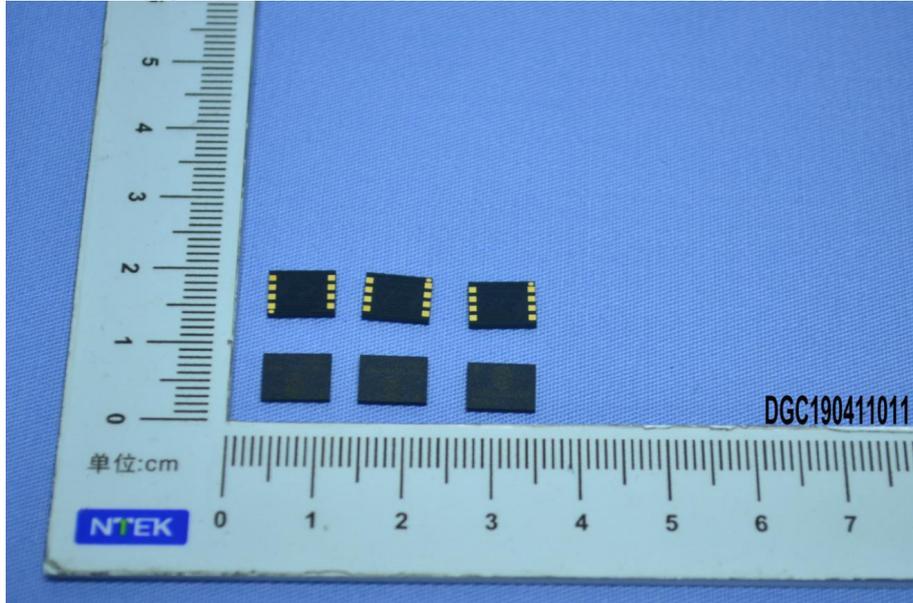
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Photograph of Sample:



End of Report

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