

Report No.: SR092133
Test Report

Ref No.: CP2009-2334SH
Date: 12/31/2009
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Applicant: Nantong Fujitsu Microelectronic Co., Ltd
Address: No.288, Chongchuan Road, Nantong, Jiangsu, China

Sample Description:	The submitted sample(s) stated to be LQFP48NT ①Pin ②Plastic		
Model No.:	--	Listed No.:	--
Lot No.:	--	Main Substances:	--
Buyer:	--		
Supplier/Manufacture:	--		

Date Received: Dec. 29, 2009
Test Period: Dec. 29, 2009 –Dec. 31, 2009
Test Location: Machinery & Electrical Products Testing Center of Shanghai Entry-Exit
Inspection and Quarantine Bureau of P.R. China
No. 1208, Minsheng Road Pudong Shanghai 200135, P.R.China
Test Requested: Please refer to next pages
Test Method: Please refer to next pages
Test Process: Please refer to next pages
Test Result: Please refer to next pages

For and on behalf of
SMEC

Miao Junwen
Director

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Test Requested:

- 1) To determine the Cadmium content of the submitted sample(s)
- 2) To determine the Lead content of the submitted sample(s)
- 3) To determine the Mercury content of the submitted sample(s)
- 4) To determine the Hexavalent Chromium content of the submitted sample(s)
- 5) To determine the PBBs and PBDEs contents of the submitted sample(s)
- 6) To determine the PFOS&PFOA contents of the submitted sample(s)

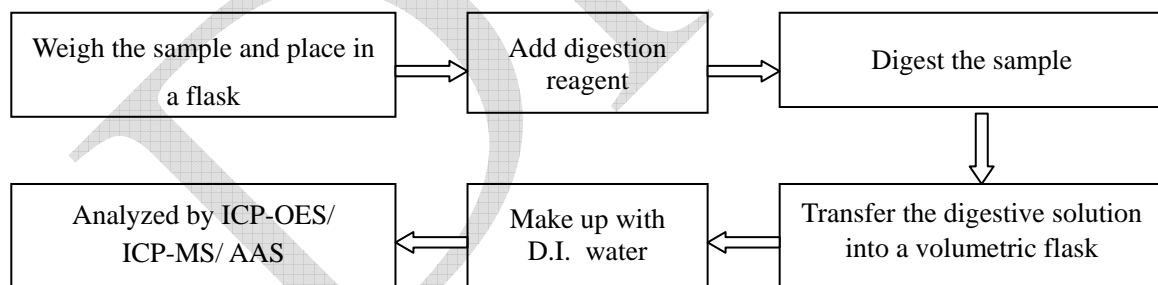
Test Method:

- 1) With reference to IEC 62321:2008. Determination of Cadmium by ICP-OES/ ICP-MS/ AAS
- 2) With reference to IEC 62321:2008. Determination of Lead by ICP-OES/ ICP-MS/ AAS
- 3) With reference to IEC 62321:2008. Determination of Mercury by CV-AAS/ CV-AFS/ ICP-OES/ ICP-MS
- 4) With reference to IEC 62321:2008. Determination of Hexavalent Chromium by UV-Vis
- 5) With reference to IEC 62321:2008. Determination of PBBs and PBDEs by GC/MS
- 6) With reference to US EPA 3540C/3550C method. Analysis was performed by LC-MS.

Test Process:

①Pin

- 1) To determine the content of Pb/Cd with reference to IEC 62321:2008 Sec.9

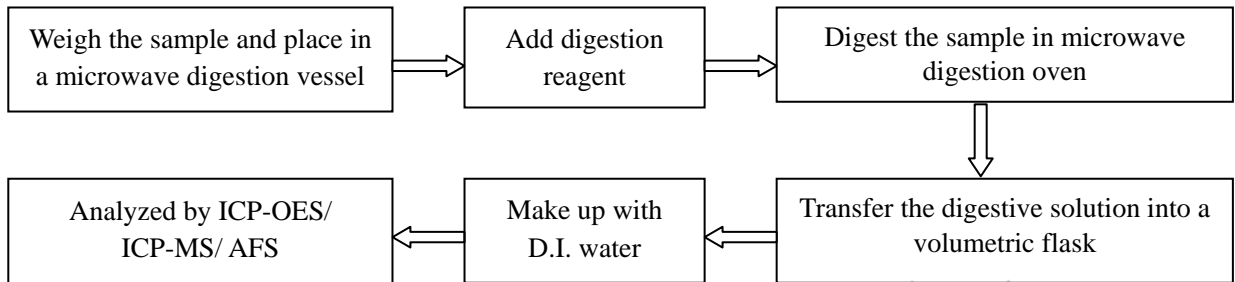


The samples were dissolved totally by pre-conditioning method according to above flow chart

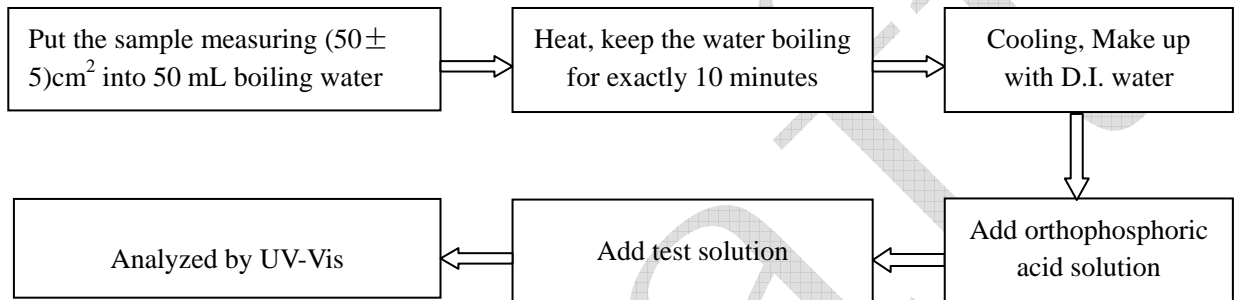
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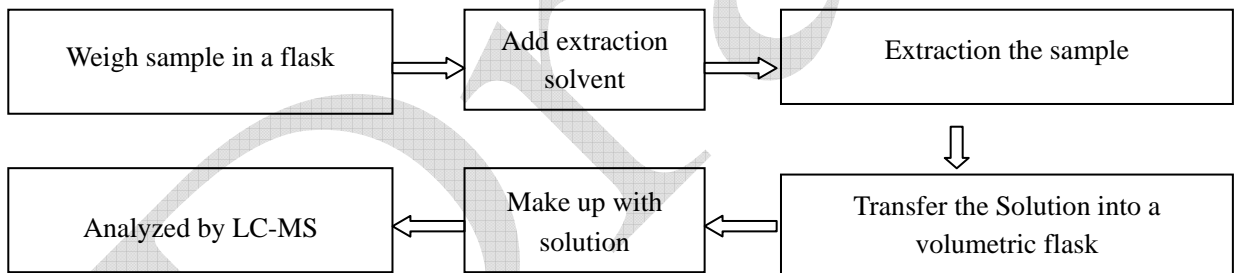
2) To determine the content of Hg with reference to IEC 62321:2008 Sec.7



3) To determine the content of Cr⁶⁺ with reference to IEC 62321:2008 Annex B



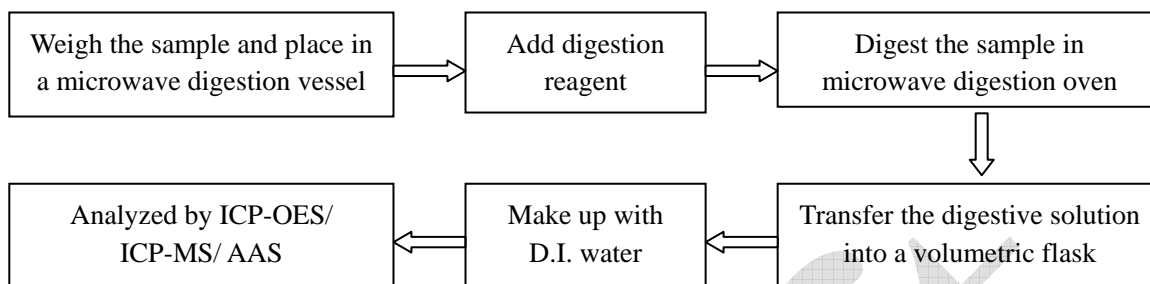
4) To determine the contents of PFOS&PFOA with reference to US EPA 3540C/3550C



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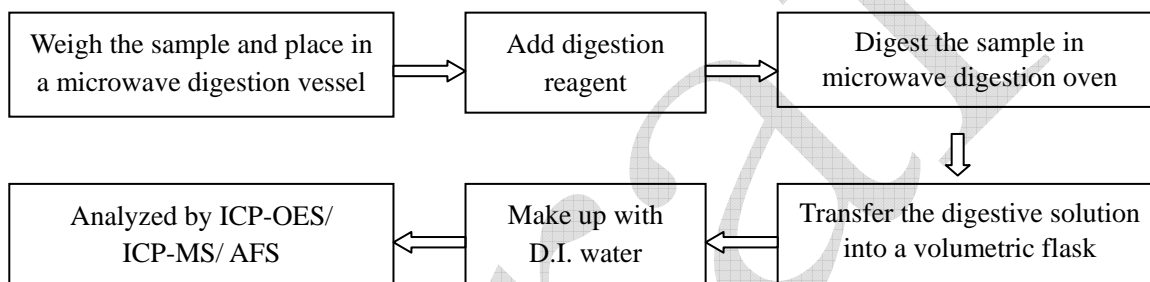
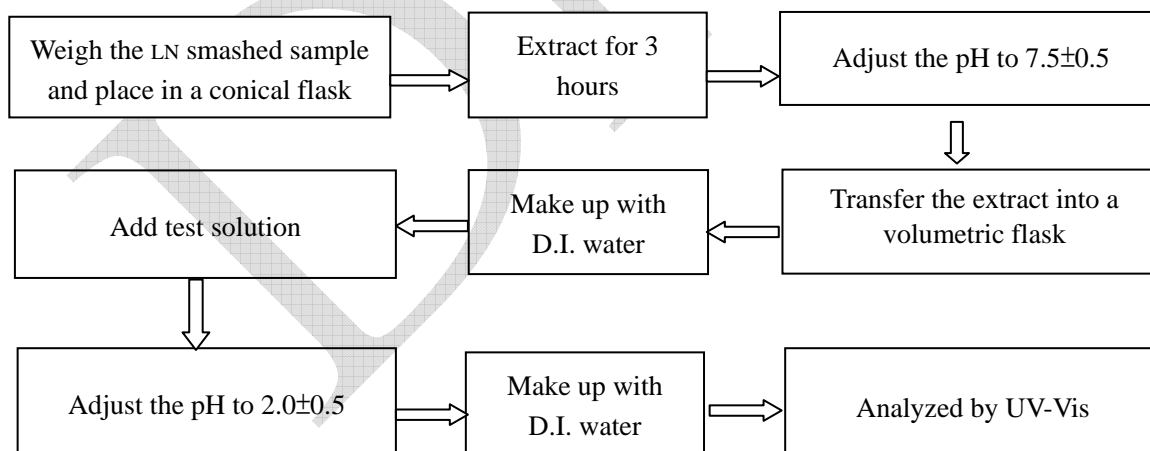
②Plastic

5) To determine the content of Pb/Cd with reference to IEC 62321:2008 Sec.8/10



The samples were dissolved totally by pre-conditioning method according to above flow chart

6) To determine the content of Hg with reference to IEC 62321:2008 Sec.7

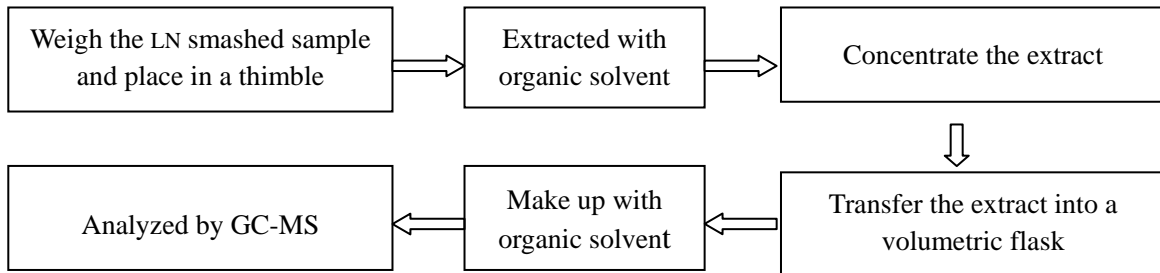
7) To determine the content of Cr⁶⁺ with reference to IEC 62321:2008 Annex C

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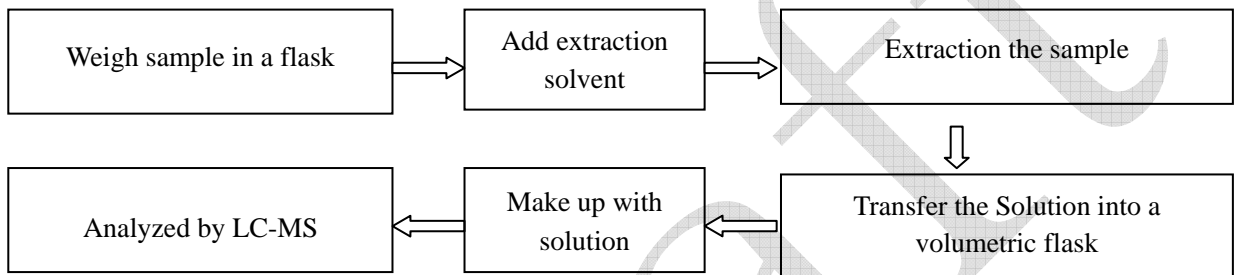
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8) To determine the contents of PBBs/ PBDEs with reference to IEC 62321:2008 Annex A



9) To determine the contents of PFOS&PFOA with reference to US EPA 3540C/3550C



Pretreatment: Dong Shuangyan/ Xu Hua/ Li Guangming Data Review: Wei Biwen
 Analysis: Zheng Yi/ Lin Li/ Yu Wenjia Report Preparation: Chen Jingjing

Test result summary on sample: LQFP48NT ①Pin

Test Item	Unit	Result	Reporting Limit	RoHS Limit
Cadmium(Cd)	mg/kg	ND	2	100
Lead (Pb)	mg/kg	ND	2	1000
Mercury (Hg)	mg/kg	ND	2	1000
Hexavalent Chromium (Cr VI)	#	Negative	#	#
PFOS				
PFOS	mg/kg	ND	10	--
PFOS				
PFOS	mg/kg	ND	10	--

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Test result summary on sample: LQFP48NT ②Plastic

Test Item	Unit	Result	Reporting Limit	RoHS Limit
Cadmium(Cd)	mg/kg	ND	2	100
Lead (Pb)	mg/kg	ND	2	1000
Mercury (Hg)	mg/kg	ND	2	1000
Hexavalent Chromium (Cr VI)	mg/kg	ND	2	1000
Polybrominated Biphenyls (PBBs)				
1. Monobromobiphenyls	mg/kg	ND	5	--
2. Dibromobiphenyls	mg/kg	ND	5	--
3. Tribromobiphenyls	mg/kg	ND	5	--
4. Tetrabromobiphenyls	mg/kg	ND	5	--
5. Pentabromobiphenyls	mg/kg	ND	5	--
6. Hexabromobiphenyls	mg/kg	ND	5	--
7. Heptabromobiphenyls	mg/kg	ND	5	--
8. Octabromobiphenyls	mg/kg	ND	5	--
9. Nonabromobiphenyls	mg/kg	ND	5	--
10. Decabromobiphenyls	mg/kg	ND	5	--
Sum of PBBs	mg/kg	ND	--	1000
Polybrominated Diphenyl Ethers (PBDEs)				
1. Monobromodiphenyl ethers	mg/kg	ND	5	--
2. Dibromodiphenyl ethers	mg/kg	ND	5	--
3. Tribromodiphenyl ethers	mg/kg	ND	5	--
4. Tetrabromodiphenyl ethers	mg/kg	ND	5	--
5. Pentabromodiphenyl ethers	mg/kg	ND	5	--
6. Hexabromodiphenyl ethers	mg/kg	ND	5	--
7. Heptabromodiphenyl ethers	mg/kg	ND	5	--
8. Octabromodiphenyl ethers	mg/kg	ND	5	--
9. Nonabromodiphenyl ethers	mg/kg	ND	5	--
10. Decabromodiphenyl ethers	mg/kg	ND	5	--
Sum of PBDEs	mg/kg	ND	--	1000
PFOS				
PFOS	mg/kg	ND	10	--
PFOA				
PFOA	mg/kg	ND	10	--

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Note:

- 1) mg/kg = ppm
- 2) ND = Not detected, which will be showed if below reporting limit
- 3) # = Testing Cr VI by IEC 62321:2008 Annex B and the result is showed as Positive/Negative
Negative = Absence of Cr VI, which means that the Cr VI concentration in extraction solution is less than 0.02 mg/kg with 50 cm² sample surface area
Positive = Presence of Cr VI, which means that the Cr VI concentration in extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area
- 4) -- = Not applicable
- 5) Reference information: EU Directive 2006/122/EC
 - i) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
 - ii) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1 μ g/m² of the coated material.

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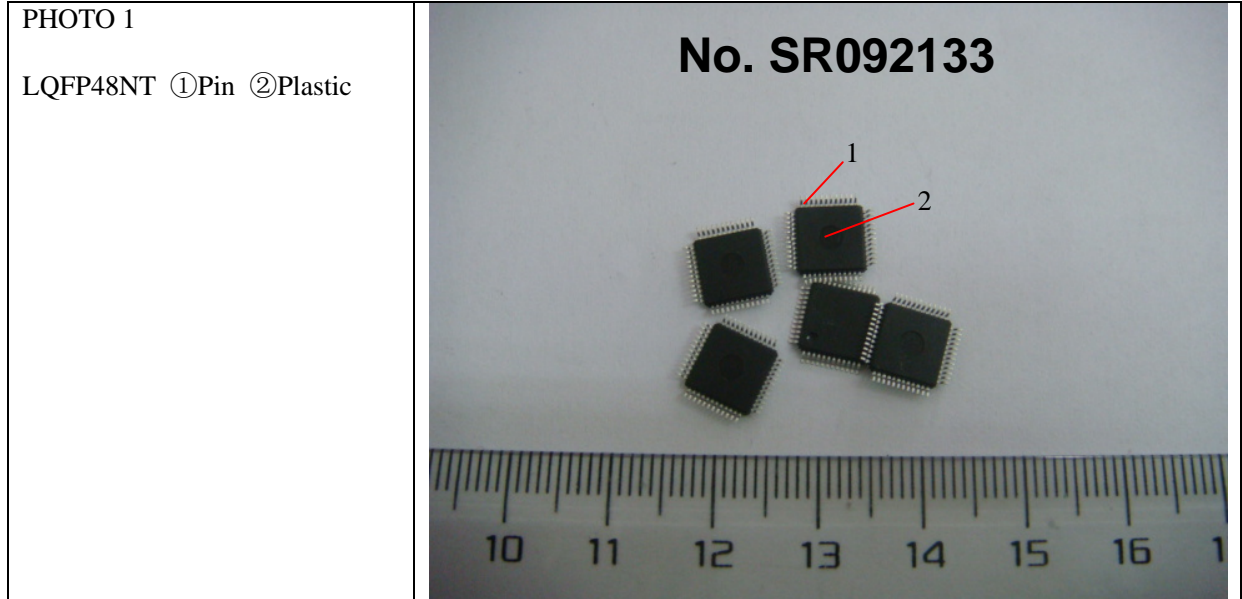
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ANNEX

Sample Photo



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

DRAFT