

Applicant: SHENZHEN JLC TECHNOLOGY GROUP CO.,LTD.

Applicant Address: 27TH FLOOR, OLYMPIC BUILDING, SHANGBAO ROAD, FUTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE

The following samples were submitted and identified on behalf of the clients as

Sample Name: PCB
Sample description: ENIG (Electroless Nickel/ Immersion Gold)
Manufacturer: SHENZHEN JLC TECHNOLOGY GROUP CO.,LTD.
Manufactured Address: 27TH FLOOR, OLYMPIC BUILDING, SHANGBAO ROAD, FUTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE
Sample Quantity: 1
CPST Internal Reference No.: C231113061
Sample Received Date: Nov 13, 2023
Test Period: Nov 13, 2023 to Nov 17, 2023
Test Method: Please refer to next page(s).
Test Result: Please refer to next page(s).

CONCLUSION :

TESTED SAMPLES	TEST ITEM	RESULT
PCB	1.RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863	
	— Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content	PASS
	—Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content	PASS

Signed for and on behalf of
Eurones (Dongguan) Consumer Products Testing Service Co., Ltd

WRITTEN BY :

Jane Lian

Lian chao zhen, Jane
Report writer

REVIEWED BY:

Sunshine Liu

Liu Xiao Fang, Sunshine
Report Reviewer

APPROVED BY:

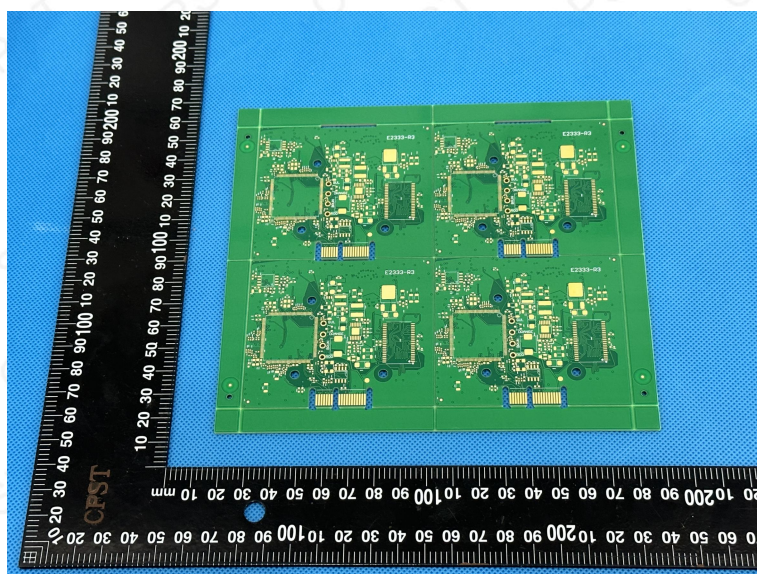
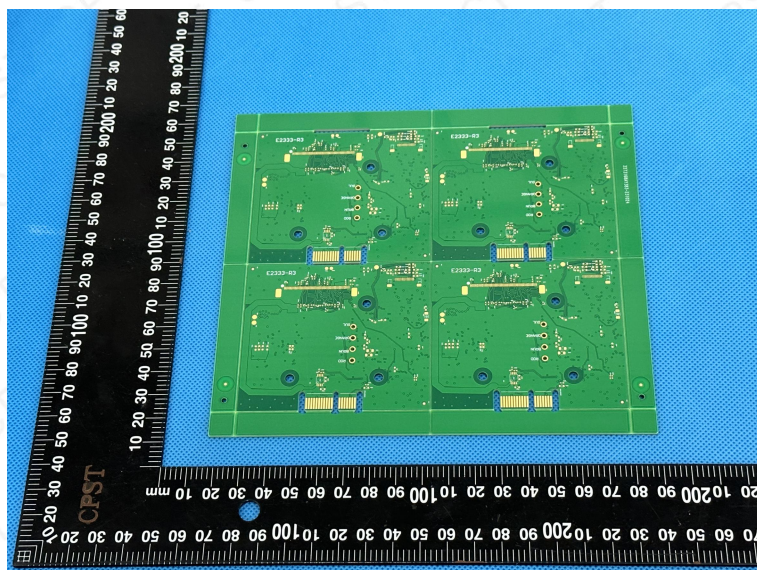
Will Pan

Pan Jian Ding, Will
Technical Supervisor

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Photo of the Submitted Sample



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Test Result(s):

Description of Specimen : PCB board (whole test)

1.RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863—Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs

Test Items	Unit	Test Method	Result	MDL	Limit
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES/AAS	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES/AAS	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES/AAS	N.D.	2	100
Hexavalent Chromium (CrVI)	mg/kg	IEC 62321-7-2:2017, UV-VIS	N.D.	2	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Sum of PBBs	mg/kg	-	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Sum of PBDEs	mg/kg	-	N.D.	-	1000

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- Note:
1. mg/kg = milligram per kilogram = ppm
 2. N.D. = Not Detected (< MDL)
 3. MDL = Method Detection Limit
 4. "-" = Not Regulated

RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863 —Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP)

Content

Test method:IEC 62321-8:2017, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS) .

Test Items	Unit	Result	MDL	Limit
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	N.D.	50	1000
Benzylbutyl phthalate (BBP)	mg/kg	N.D.	50	1000
Dibutyl phthalate (DBP)	mg/kg	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	50	1000

Note:

1. mg/kg = milligram per kilogram = ppm
2. N.D. = Not Detected (<MDL)
3. MDL = Method detection limit

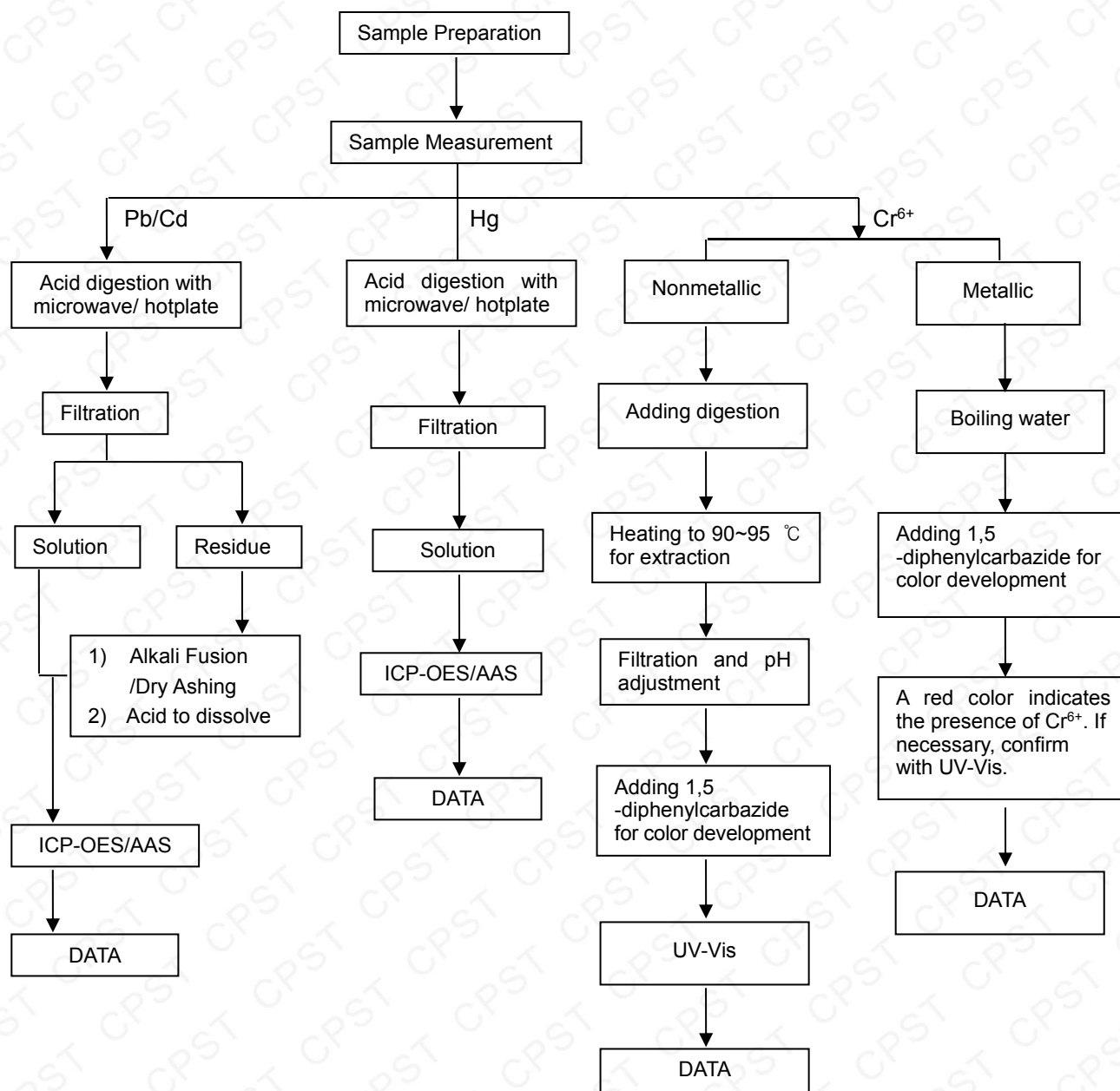
Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample. The test report is only for customer research, teaching, internal quality control, product development and other purposes, for reference only.

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Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart

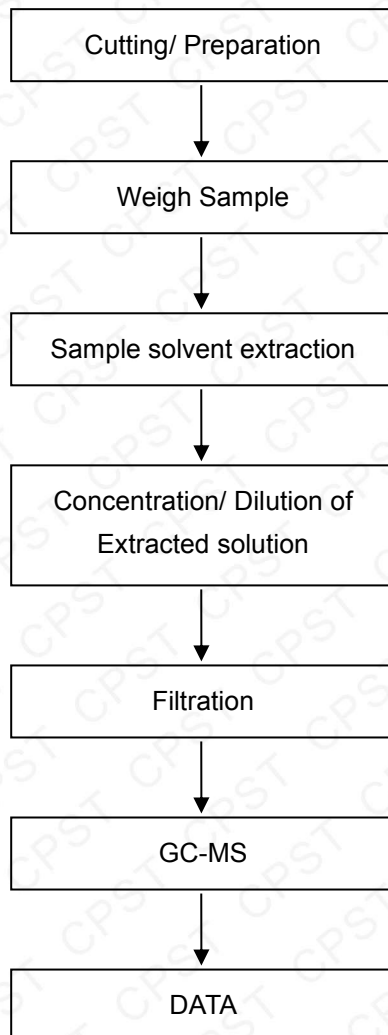
- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)



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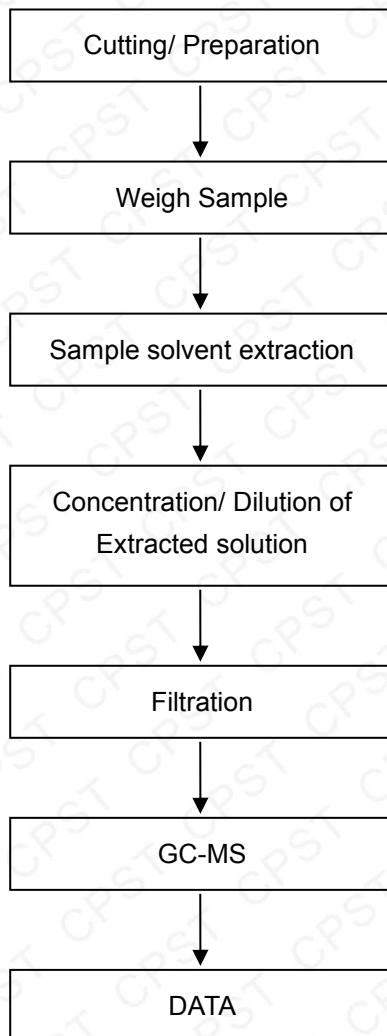
PBBs/PBDEs Testing Flow Chart



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Phthalates Testing Flow Chart



Declaration: Report C231113061002-1 was repealed and replaced by Report C231113061002-1A.

*** End of Report ***

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Applicant Address: 27TH FLOOR, OLYMPIC BUILDING, SHANGBAO ROAD, FUTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE

The following samples were submitted and identified on behalf of the clients as

Sample Name: PCB
Sample description: Lead-free HASL
Manufacturer: SHENZHEN JLC TECHNOLOGY GROUP CO.,LTD.
Manufactured Address: 27TH FLOOR, OLYMPIC BUILDING, SHANGBAO ROAD, FUTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE
Sample Quantity: 1
CPST Internal Reference No.: C231113061
Sample Received Date: Nov 13, 2023
Test Period: Nov 13, 2023 to Nov 17, 2023
Test Method: Please refer to next page(s).
Test Result: Please refer to next page(s).

CONCLUSION :

TESTED SAMPLES	TEST ITEM	RESULT
PCB	1.RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863	
	— Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content	PASS
	—Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content	PASS

Signed for and on behalf of
Eurones (Dongguan) Consumer Products Testing Service Co., Ltd

WRITTEN BY :

Jane Lian

Lian chao zhen, Jane
Report writer

REVIEWED BY:

Sunshine Liu

Liu Xiao Fang, Sunshine
Report Reviewer

APPROVED BY:

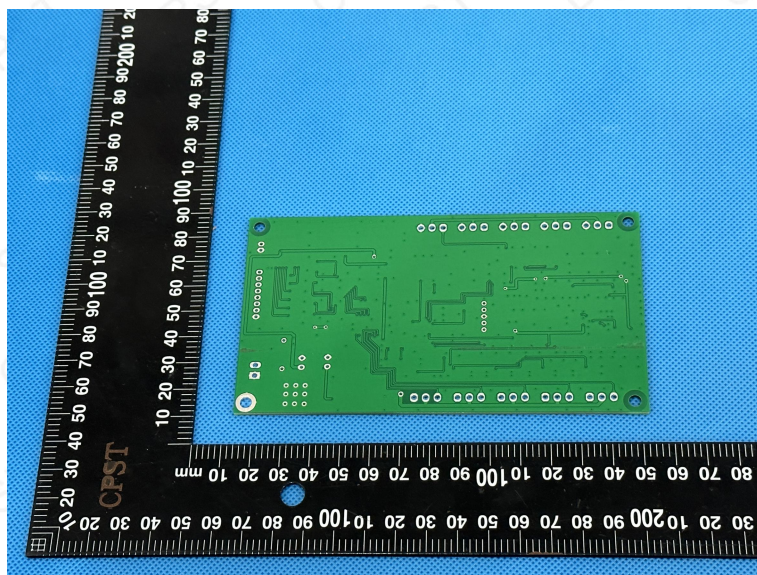
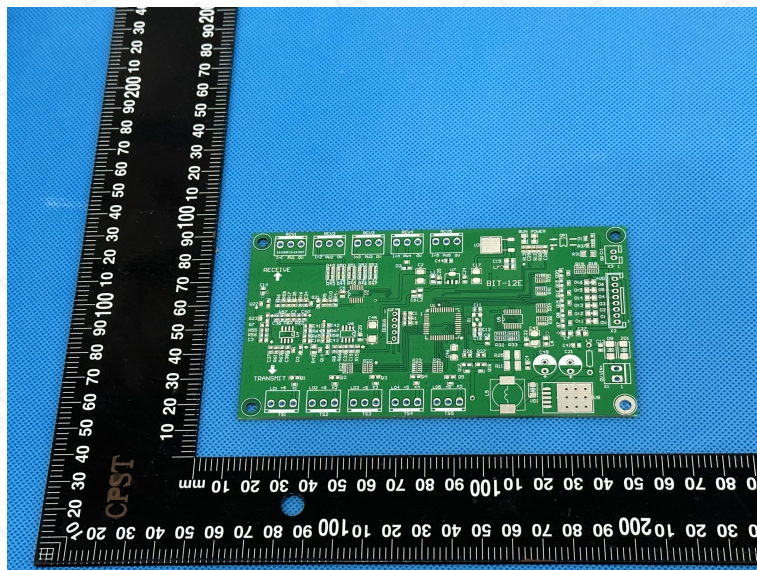
Will Pan

Pan Jian Ding, Will
Technical Supervisor

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Photo of the Submitted Sample



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Test Result(s):

Description of Specimen : PCB board (whole test)

1.RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863—Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs

Test Items	Unit	Test Method	Result	MDL	Limit
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES/AAS	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES/AAS	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES/AAS	N.D.	2	100
Hexavalent Chromium (CrVI)	mg/kg	IEC 62321-7-2:2017, UV-VIS	N.D.	2	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Sum of PBBs	mg/kg	-	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Sum of PBDEs	mg/kg	-	N.D.	-	1000

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RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863 —Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP)

Content

Test method:IEC 62321-8:2017, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS) .

Test Items	Unit	Result	MDL	Limit
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	N.D.	50	1000
Benzylbutyl phthalate (BBP)	mg/kg	N.D.	50	1000
Dibutyl phthalate (DBP)	mg/kg	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	50	1000

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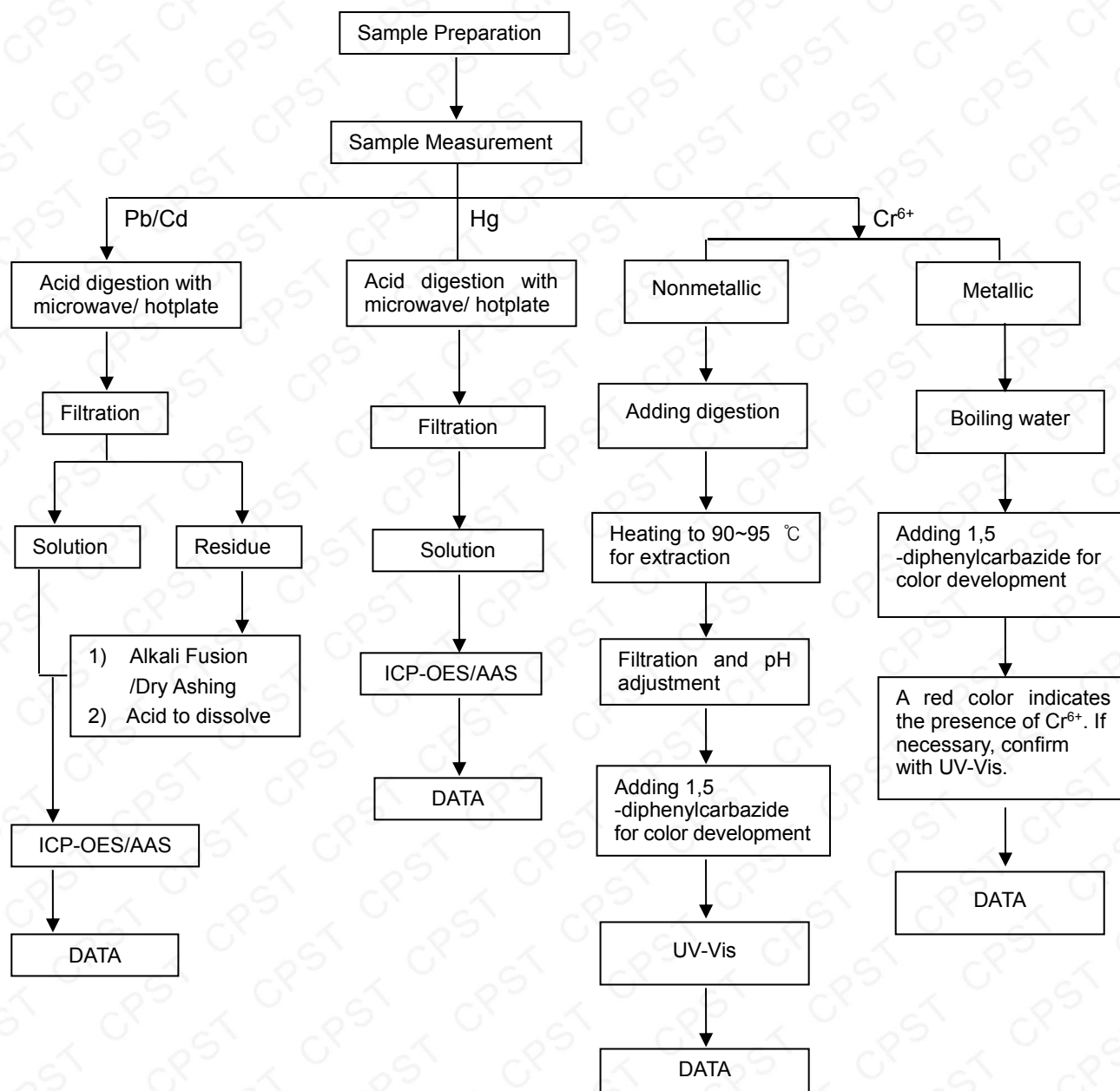
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Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart

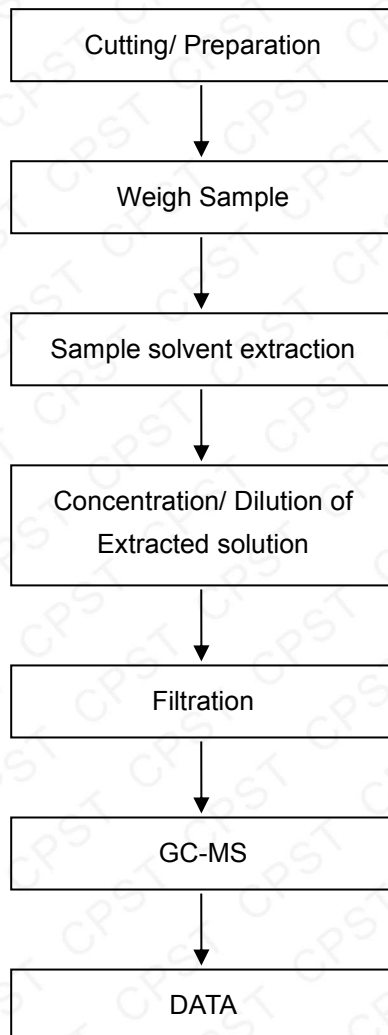
- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)



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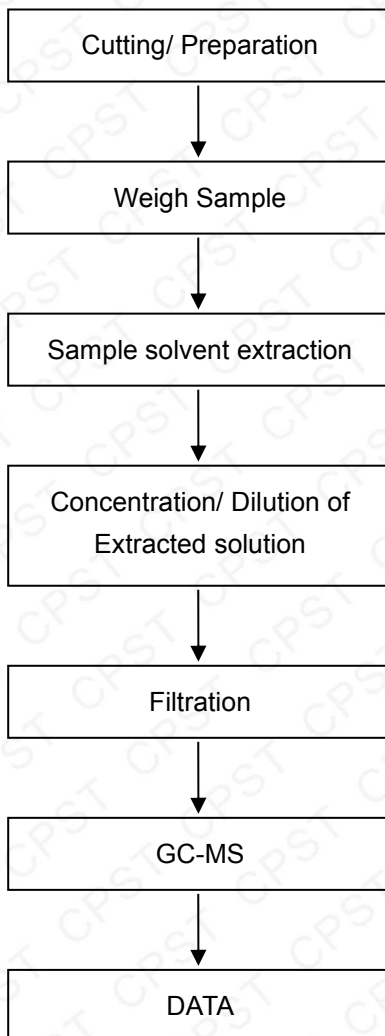
PBBs/PBDEs Testing Flow Chart



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Phthalates Testing Flow Chart



Declaration: Report C231113061001-1 was repealed and replaced by Report C231113061001-1A.

*** End of Report ***

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