

Report No.: SZC18102280441-4 Date: Oct. 25, 2018 Page 1 of 6

Applicant: FOSHAN BLUE ROCKET ELECTRONICS CO., LTD

Address: NO.45 GUXIN ROAD, CHANCHENG DISTRICT, FOSHAN, GUANGDONG, P.R.C.CHINA

Report on the submitted sample(s) said to be:

Sample Name: Semiconductor Device

Sample Description: 1.Black body

2. Silvery metal pin

Sample Model: TO-126F/126

Sample No.: QT1810228044104

Sample Received Date: Oct. 22, 2018

Testing Period: Oct. 22, 2018 - Oct. 25, 2018

Test Requested: As specified by client, to determine the Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP,

DIBP content in the submitted sample.

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

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

Conclusion: Based on the performed tests on submitted samples, the results of Pb, Cd, Hg, Cr(VI), PBBs,

PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by EU RoHS Directive

2011/65/EU and its amendment Directive EU 2015/863.

Signed for and on behalf of HCT

Michael

Fax: 0755-89594380

Unit D,Penglitai Industrial Estate, Longping Xi Road, Longgang District, Shenzhen

E-mail: hongcai@hct-test.com Service Tel: 400-0066-989

HONGCAI TESTING TECHNOLOGY CO.,LTD



Report No.: SZC18102280441-4 Date: Oct. 25, 2018 Page 2 of 6

Test Result(s):

Unit: mg/kg

Test Items	Test Method/	110	Content	EU RoHS Directive 2011/65/EU and its
	Equipment	MDL	1	amendment Directive EU 2015/863
Lead(Pb)	IEC 62321-5:2013.	2	N.D.	1000
Cadmium(Cd)	ICP-OES/AAS	2	N.D.	100
Mercury(Hg)	IEC 62321-4:2013 +AMD1:2017. ICP-OES	2	N.D.	1000
Hexavalent Chromium(Cr(VI))	IEC 62321-5:2013/ IEC 62321-7-2:2017. ICP-OES/AAS UV-VIS	8	N.D.	1000
Mono-bromobiphenyl		5	N.D.	
Di-bromobiphenyl		5	N.D.	Ho
Tri-bromobiphenyl		5	N.D.	
Tetra-bromobiphenyl	//C,	5	N.D.	
Penta-bromobiphenyl		5	N.D.	
Hexa-bromobiphenyl		5	N.D.	Ho
Hepta-bromobiphenyl	10,	5	N.D.	
Octa-bromobiphenyl		5	N.D.	
Nona-bromobiphenyl		5	N.D.	
Deca-bromobiphenyl		5	N.D.	
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015.	_	N.D.	1000
Mono-bromodiphenyl ether	GC-MS	5	N.D.	.,67
Di-bromodiphenyl ether	.107	5	N.D.	Kin
Tri-bromodiphenyl ether	Kin	5	N.D.	
Tetra-bromodiphenyl ether		5	N.D.	,
Penta-bromodiphenyl ether		5	N.D.	(C)
Hexa-bromodiphenyl ether	TC1	5	N.D.	
Hepta-bromodiphenyl ether		5	N.D.	
Octa-bromodiphenyl ether		5	N.D.	
Nona-bromodiphenyl ether		5	N.D.	
Deca-bromodiphenyl ether		5	N.D.	_<
Polybrominated DiphenylEthers(PBDEs)		_	N.D.	1000





Report No.: SZC18102280441-4 Date: Oct. 25, 2018 Page 3 of 6

Test Items	Test Method/Equipment	MDL	Content	EU RoHS Directive 2011/65/EU and its
			1	amendment Directive EU 2015/863
Dibutyl phthalate (DBP)	IEC 62321-8:2017, GC-MS	30	N.D.	1000
Butylbenzyl phthalate (BBP)		30	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)		30	N.D.	1000
Di-iso-butyl phthalate(DIBP)		30	N.D.	1000

Test Items	Test Method/ Equipment	MDL -	Content	EU RoHS Directive 2011/65/EU and its	
			2	amendment Directive EU 2015/863	
Lead(Pb)	IEC 62321-5:2013.	2	N.D.	1000	
Cadmium(Cd)	ICP-OES/AAS	2	N.D.	100	
Mercury(Hg)	IEC 62321-4:2013 +AMD1:2017. ICP-OES	2	N.D.	1000	

Test Item	Test Method/ Equipment	MDL (μg/cm²)	Result (µg/cm²)	Qualitative Result	EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863
Hexavalent Chromium(Cr(VI))◆	IEC 62321-7-1:2015. UV-VIS	0.05	N.D.	Negative	- 401

Note: mg/kg=ppm= parts per million

MDL=method detection limit

"-" =Not regulated

N.D.=not detected(less than method detection limit)

Results shown as N.D. are ignored in the sum calculation.

As specified by client, only test the designated sample.

The detected Chromium (Cr) content is "N.D.", therefore, the Hexavalent Chromium (Cr (VI)) content is "N.D.", No need for validation test of the Hexavalent Chromium (Cr (VI)).

If Chromium (Cr) content exceeds Hexavalent Chromium (Cr (VI)) method detection limit, Validation test of the Hexavalent Chromium (Cr (VI)) is required.





Report No.: SZC18102280441-4 Date: Oct. 25, 2018 Page 4 of 6

- - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than $0.10\mu g/cm^2$). The coating is considered a non-Cr(VI) based coating;
 - c. The result between $0.10\mu g/cm^2$ and $0.13\mu g/cm^2$ is considered to be inconclusive -unavoidable coating variations may influence the determination;

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



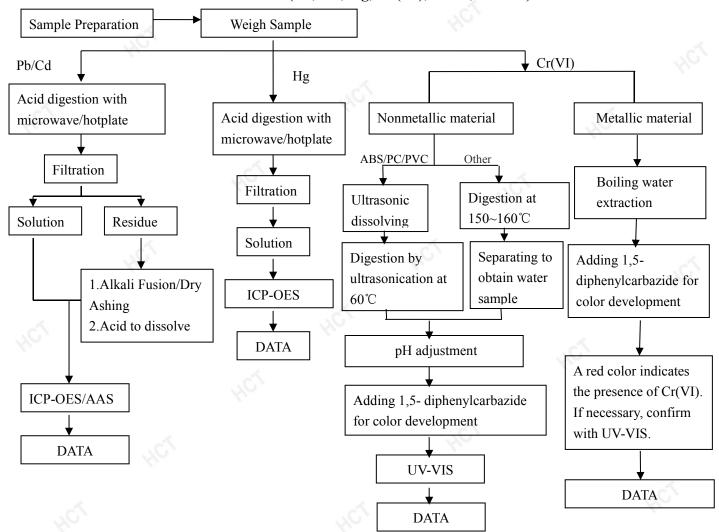
Fax: 0755-89594380

E-mail: hongcai@hct-test.com Service Tel: 400-0066-989



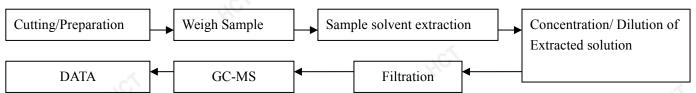
Report No.: SZC18102280441-4 Date: Oct. 25, 2018 Page 5 of 6

Test Flow Chart (Pb, Cd, Hg, Cr(VI), PBBs, PBDEs)



These sample were dissolved totally by pre-conditioning method according to above flow chart(Cr(VI) test method excluded)

PBBs/PBDEs

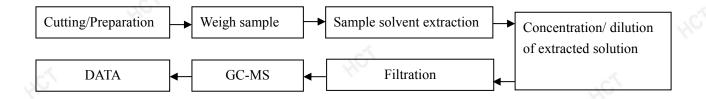




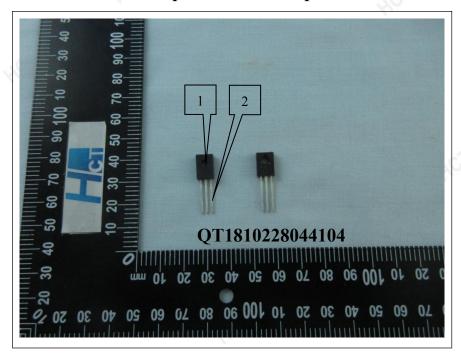


Report No.: SZC18102280441-4 Date: Oct. 25, 2018 Page 6 of 6

Test Flow Chart (DBP, BBP, DEHP, DIBP)



The photo of the sample



***End ***

This report will go into effect with HCT stamp. This report could not be revised. This report is only responsible for the test result of submitted samples. Without written authorization, any copy of this report for propaganda is invalid.



HONGCAI TESTING TECHNOLOGY CO.,LTD

Web:www.hct-test.com Tel: 0755-84616666