







Report No. A223010845210115 Page 1 of 8

Company Name DONG GUAN BRIGHT LED ELECTRONICS LTD

shown on Report

Address NO.8,GAO LONG EAST RD ,GAOBU TOWN,DONG GUAN CTY,GUANG DONG

PROVINCE, CHINA 523283

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

the applicant

CTI Sample ID	Final Product Name	Sample Name(s)
016	CMD	Chip 樹脂
017	SMD	Chip PCB

Sample Received Date Mar. 15, 2023

Testing Period Mar. 15, 2023 to Mar. 31, 2023

**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) in the submitted sample(s).

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

Date

Mar. 31, 2023

Hill Zheng Technical Manager

flill The

No. R450141684

CARA TENING INTERNATIONAL Group Co., Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A22301084521	0115	Page 2 of 8
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Conclusion		
<b>Tested Sample</b>	According to standard/directive	Result
0.1 '4 10 1	RoHS Directive 2011/65/EU with	DAGG
Submitted Sample	amendment (EU) 2015/863	PASS
*********	***************	********
PASS means that the results shown	on the report comply with the limits set by RoHS Directive 2011	/65/EU with amendment (EU)
2015/863.		

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



Report No. A223010845210115 Page 3 of 8

#### **Test Method**

Tested Item(s)	Test Method	Measured Equipment(s)	
Lead (Pb)	IEC 62321-5:2013	ICP-OES	
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES	
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	UV-Vis/ICP-OES	
Hexavaient Chronnum (Cr(V1))	Total Chromium by IEC 62321-5:2013	UV-VIS/ICF-OES	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	
Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS	
(PBDEs)	IEC 02321-0:2013		
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	

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Report No. A223010845210115 Page 4 of 8

#### Test Result(s)

Tested Item(s)	Result		MDL	Limit
rested tem(s)	016	017	MIDL	Limit
Lead (Pb)	N.D.	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	8 mg/kg	1000 mg/kg

Tested Item(s)	Result		MDL	Limit
rested tem(s)	016	017	WIDL	Limit
Polybrominated Biphenyls (PBBs	)			
Monobromobiphenyl	N.D.	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	N.D.	5 mg/kg	1000 m ~/lra
Hexabromobiphenyl	N.D.	N.D.	5 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	N.D.	5 mg/kg	

Tested Item(s)	Result		MDL	Limit
rested item(s)	016	017	MIDL	Liiiit
Polybrominated Diphenyl Ether	s (PBDEs)			
Monobromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Dibromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	N.D.	5 mg/kg	1000 m = /lr =
Hexabromodiphenyl ether	N.D.	N.D.	5 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	N.D.	5 mg/kg	



Page 5 of 8

Report No. A223010845210115

Tested Item(s)	Result		MDL	Limit
Tested Item(s)	016	017	MIDL	Limit
Phthalates (DBP, BBP, DEHP, DI	BP)			
Dibutyl phthalate (DBP)	N.D.	ND	50 m = /ls =	1000 m a/lsa
CAS#:84-74-2	N.D.	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP)	ND	ND	50 /	1000 mg/kg
CAS#:85-68-7	N.D.	N.D.	50 mg/kg	
Di-(2-ethylhexyl) phthalate	ND	ND	50 ma/lsa	1000 //
(DEHP) CAS#:117-81-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	ND	ND	50 /l	1000 /1
CAS#:84-69-5	N.D.	N.D.	50 mg/kg	1000 mg/kg

#### Sample/Part Description

No.	CTI Sample ID	Description
1	016	Purple solid
2	017	PCB (Tested as a whole)#

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

- -MDL = Method Detection Limit
- -N.D. = Not Detected (< MDL)
- -mg/kg = ppm = parts per million
- -1000 mg/kg = 0.1%
- -#The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.



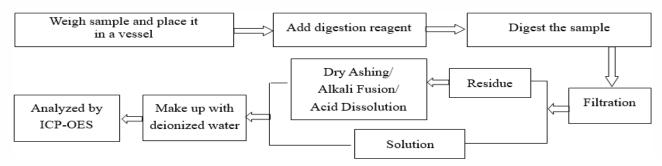
Report No. A223010845210115

Page 6 of 8

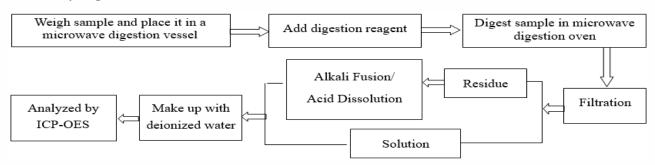
S LOUP CO LY SE S

#### **Test Process**

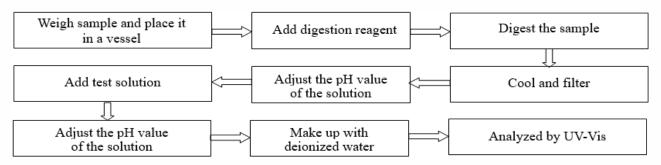
#### 1. Lead (Pb), Cadmium (Cd), Chromium(Cr)



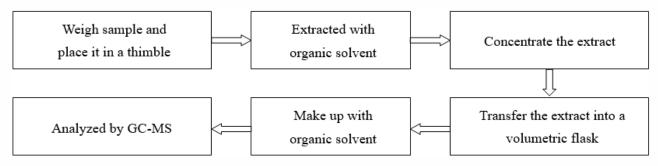
#### 2. Mercury (Hg)



#### 3. Hexavalent Chromium (Cr(VI))



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

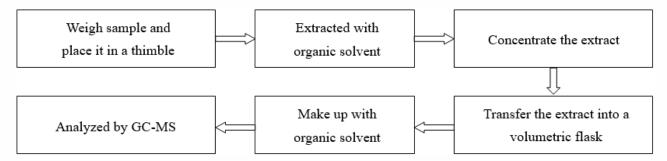




Report No. A223010845210115

Page 7 of 8

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

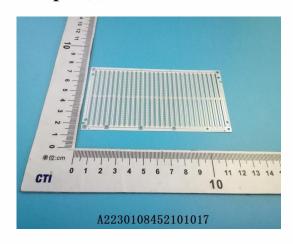




Report No. A223010845210115 Page 8 of 8

### 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;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

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



### **Appendix**

#### **Client Reference Photo (Non-tested sample)**



#### Final Product

#### **Statement:**

- 1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
- 2. The Appendix Information is/are the supplement(s) for the Report A223010845210115.