

Test Report

Number: GZHH00458186

Applicant: UNI-TREND TECHNOLOGY (CHINA) CO.,LTD
NO.6,GONG YE BEI 1ST ROAD, SONGSHAN
LAKE NATIONAL HIGH-TECH INDUSTRIAL
DEVELOPMENT ZONE,DONGGUAN CITY,
GUANGDONG PROVINCE,CHINA

Date: Aug 23, 2022

Attn: GUSSIE XIANG

Sample Description:

One (1) piece of submitted sample said to be :

Item Name : Professional Thermal Imager
Item No. : UTi384G
Reference No. : UTi256G
Manufacturer : Uni-Trend Technology (China) Co.,Ltd.
Country of Origin : China
Date Sample Received : Jun 24, 2022 & Jul 29, 2022 & Aug 01, 2022
Testing Period : Jun 24, 2022 to Aug 19, 2022



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued



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Conclusion:

Tested Sample
Tested components of
submitted sample

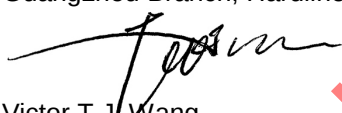
Standard
Restriction of the use of certain hazardous substance in
electrical and electronic equipment (RoHS Directive
2011/65/EU and amendment Commission Delegated
Directive (EU) 2015/863)

Result
Pass

Restricted Substances Content Requirement in Regulation
3(1) of The Restriction of the Use of Certain Hazardous
Substances in Electrical and Electronic Equipment
Regulations 2012 (S.I. 2012 No. 3032) as amended

Pass

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines


Victor T.J. Wang
Assistant General Manager



TREND.VN



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111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou,
Guangdong, China. / Block E, No.7-2 Caipin Road, Science City, GETDD, Guangzhou.

广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

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Tests Conducted

1 RoHS Chemical Test

Screening Test by XRF Spectroscopy

Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured with reference to IEC 62321-3-1 Edition 1.0:2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances.

(A) Results:

Screened Components	XRF Results		Chemical Confirmation Result
(1)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(2)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(3)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(4)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(5)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(6)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(7)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(8)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(9)	Cd	ND	Pb:(33776mg)/kg ^{#(1)}
	Pb	>(1300mg)/kg	
	Hg	ND	
	Cr	ND	
	Br	NT	
(10)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(11)	Cd	ND	Pb:(34244mg)/kg ^{#(1)}
	Pb	>(1300mg)/kg	
	Hg	ND	
	Cr	ND	
	Br	NT	
(12)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(13)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(14)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(15)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(16)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(17)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(18)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(19)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(20)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(21)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(22)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(23)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(24)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(25)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(26)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(27)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(28)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(29)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(30)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(31)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(32)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(33)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(34)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(35)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(36)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(37)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(38)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(39)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(40)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(41)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(42)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(43)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(44)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(45a)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(45b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(45c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(45d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(46)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(47a)	Cd	ND	NT
	Pb	>(1500mg)/kg ^{#(2)}	
	Hg	ND	
	Cr	ND	
	Br	ND	
(47b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(48a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(48b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(49)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(50)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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(51a)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(51b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(52a)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(52b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(53)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(54a)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(54b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(55)	Cd	ND	Cr ⁶⁺ : ND
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	ND	
(56)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(57)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(58)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(59)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(60)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(61)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(62a)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(62b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(63)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(64a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(64b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(65)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(66)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(67a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(67b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(68a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(68b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(69)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(70a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(70b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(71)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(72)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(73)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(74)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(75)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(76a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(76b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(77a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(77b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(78a)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(78b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(79)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(80)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(81)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(82a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(82b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(83)	Cd	ND	NT
	Pb	Detected	
	Hg	ND	
	Cr	Detected	
	Br	ND	
(84a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(84b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(85a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(85b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(86a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(86b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(87)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(88)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(89a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(89b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(90a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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(90b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(91a)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(91b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(91c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(92)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Detected	
(93)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(94a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

深圳天祥质量技术服务有限公司广州分公司

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广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩虹路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
intertek.com


Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(94b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(95)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(96)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(97)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(98)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(99a)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(99b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(100)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(101)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(102a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(102b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(103a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(103b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(104)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(105)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(106)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(107)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(108)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(109)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(110)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(111)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(112)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(113)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(114)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(115)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(116)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(117)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(118)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(119)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(120)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(121)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(122)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(123)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(124)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(125)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Test Report

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(126)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(127)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(128)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(129)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(130)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(131)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(132)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(133)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(134)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(135)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(136a)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(136b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(137)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(138)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(139)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(140)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(141)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(142a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(142b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(143)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(144a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Test Report

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(144b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(145)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(146a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(146b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(147)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(148)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(149a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(149b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(150)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(151)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(152)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(153)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(154)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(155)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(156)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(157)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(158)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(159)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(160)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(161)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(162)	Cd	ND	Pb:(30420mg)/kg ^{#(1)}
	Pb	>(1300mg)/kg	
	Hg	ND	
	Cr	ND	
	Br	NT	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(163)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(164)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(165)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(166)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(167)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(168)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(169)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(170)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(171)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(172)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(173)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(174a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(174b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(175)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(176)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(177)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(178)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(179)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(180)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(181)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(182)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(183)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(184)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(185a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(185b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(185c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(185d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(186)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(187)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(188)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(189)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(190)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(191)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(192)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(193a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(193b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(194)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(195)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(196)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(197)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(198)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(199)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
intertek.com


Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(200)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(201)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(202)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
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Test Report

Number: GZHH00458186

Tests Conducted

(B) Phthalate Screening Test

Non-toys:

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(1)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(2)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(3)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(4)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(5)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(6)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(7)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(10)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(12)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(13)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Fax +8620 3205 3537
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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(18)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(19)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(20)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(21)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(23)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(25)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(26)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(27)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(30)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(32)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(35)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(37)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(44)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(45b)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(46)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(47a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(48a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(51a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(52a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(53)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(54a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(60)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(61)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(62a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(63)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(64a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(65)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(67a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(68a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(69)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(70a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(71)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(76a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Fax +8620 3205 3537
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Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(77a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(79)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(80)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(82a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(84a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(85a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(87)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(89a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(91b)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(92)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(93)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Tel +8620 8213 9688
Fax +8620 3205 3537
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Number: GZHH00458186

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(94a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(95)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(98)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(99a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(100)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(101)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(102a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(103a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(104)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(106)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(107)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(108)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(109)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(111)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(112)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(113)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(114)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(115)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(116)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(117)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(119)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(121)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(122)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(123)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(126)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(128)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(129)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(131)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(132)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(133)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(134)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(135)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(136a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(137)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(138)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(141)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(142a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(143)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(144a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(145)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(146a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(147)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(148)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(149a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(152)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(153)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(154)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(155)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(157)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(165)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(168)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(169)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(171)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(172)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(174a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(182)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(183)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(186)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(187)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(189)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(192)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(193a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(200)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(201)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(202)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	

DBP =Dibutyl phthalate
 DEHP = Di-(2-ethyl hexyl) phthalate
 BBP = Benzyl butyl phthalate
 DIBP = Di-(iso-butyl) phthalate



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Test Report

Number: GZHH00458186

Tests Conducted

Detected = Below the lower screening limit of table (C) and pass

ND = Not detected

NT = Not tested

P = Pass

Negative = A negative test result indicated the concentration of Cr(VI) is less than threshold of (0).(10) $\mu\text{g}/\text{cm}^2$ for boiling-water-extraction procedures by UV-VIS Spectrophotometer analysis. The coating is considered a non-Cr(VI) based coating.

Remark:

(#1) = As claimed by the declaration submitted from the applicant, the Lead content of the component comes from Copper alloy only. According to EU RoHS Directive ((2011/65/EU), Lead in Copper alloy containing up to 4% (40,000 mg/kg) Lead by weight can be exempted.

(# 2) = As claimed by the declaration submitted from the applicant , the Lead content of the component comes from the constituent of high melting temperature type solders (i.e. Lead-based alloys containing 85% by weight or more Lead) only. According to EU RoHS Directive ((2011/65/EU), Lead in high melting temperature type solders of the component can be exempted.

(C) Screening Limits

(C1) XRF Screening limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 300 < X$	Not applicable	$P \leq 250 < X$



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(C2) Preliminary Screening limits in mg/kg for phthalates test.

Phthalates	Polymer Materials
Dibutyl phthalate (DBP)	$P \leq 600 < X$
Di-((2)-ethyl hexyl) phthalate (DEHP)	$P \leq 600 < X$
Benzyl butyl phthalate (BBP)	$P \leq 600 < X$
Di-(iso-butyl) phthalate (DIBP)	$P \leq 600 < X$

P = Pass

X = Inconclusive result

F = Fail

mg/kg = milligram per kilogram = ppm

(D) Estimated Detection Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF Screening and Chemical Confirmation Test Report is sufficient for its/his/her purposes.

The results shown in this XRF Screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis is required to obtain quantitative data.



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Tests Conducted

(E) Chemical Test Methods:

Testing Item	Testing Method	Detection Limit
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion and determined by ICP - OES	2 mg/kg
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	100 mg/kg
Chromium (VI) (Cr ⁶⁺) Content	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer	0.10 µg/cm ²
Chromium (VI)(Cr ⁶⁺) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, Hexavalent chromium – Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method	10 mg/kg
Dibutyl phthalate (DBP) & Di-(2-ethyl hexyl) phthalate (DEHP) & Benzyl butyl phthalate (BBP) & Di-(iso-butyl) phthalate (DIBP)	With reference to IEC 62321-8 Edition 1.0:2017, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis	50 mg/kg

(F) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Di-(2-ethyl hexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di-(iso-butyl) phthalate (DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863 for homogeneous material.

Tested Components: See component list in the last section of this report



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Tests Conducted

2 RoHS Chemical Test

Screening Test by XRF Spectroscopy

Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured with reference to IEC (62321)-(3)-(1) Edition (1).(0):(2013) by XRF spectroscopy and chemical confirmation test for RoHS restricted substances.

(A) Results:

Screened Components	XRF Results		Chemical Confirmation Result
(1)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(2)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(3)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(4)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(5)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(6)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(7)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(8)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(9)	Cd	ND	Pb:(33776mg)/kg ^{#(1)}
	Pb	>(1300mg)/kg	
	Hg	ND	
	Cr	ND	
	Br	NT	
(10)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(11)	Cd	ND	Pb:(34244mg)/kg ^{#(1)}
	Pb	>(1300mg)/kg	
	Hg	ND	
	Cr	ND	
	Br	NT	
(12)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(13)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China. / Block E, No.7-2 Caipin Road, Science City, GETDD, Guangzhou.

广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
intertek.com



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(14)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(15)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(16)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(17)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(18)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(19)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(20)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
intertek.com


Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(21)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(22)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(23)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(24)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(25)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(26)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(27)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China. / Block E, No.7-2 Caipin Road, Science City, GETDD, Guangzhou.

广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

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Fax +8620 3205 3537
intertek.com.cn
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Test Report

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(28)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(29)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(30)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(31)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(32)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(33)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(34)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
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Test Report

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(35)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(36)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(37)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(38)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(39)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(40)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(41)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	



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广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩虹路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
intertek.com


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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(42)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(43)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(44)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(45a)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(45b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(45c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(45d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(46)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(47a)	Cd	ND	NT
	Pb	>(1500mg)/kg ^{#(2)}	
	Hg	ND	
	Cr	ND	
	Br	ND	
(47b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(48a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(48b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(49)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(50)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Test Report

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(51a)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(51b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(52a)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(52b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(53)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(54a)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(54b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China. / Block E, No.7-2 Caipin Road, Science City, GETDD, Guangzhou.

广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
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Test Report

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(55)	Cd	ND	Cr ⁶⁺ : ND
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	ND	
(56)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(57)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(58)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(59)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(60)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(61)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
Fax +8620 3205 3537
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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(62a)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(62b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(63)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(64a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(64b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(65)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(66)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China. / Block E, No.7-2 Caipin Road, Science City, GETDD, Guangzhou.

广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
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Test Report

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(67a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(67b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(68a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(68b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(69)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(70a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(70b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(71)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(72)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(73)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(74)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(75)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(76a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(76b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Tel +8620 8213 9688
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Test Report

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(77a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(77b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(78a)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(78b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(79)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(80)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(81)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(82a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(82b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(83)	Cd	ND	NT
	Pb	Detected	
	Hg	ND	
	Cr	Detected	
	Br	ND	
(84a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(84b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(85a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(85b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(86a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(86b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(87)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(88)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(89a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(89b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(90a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(90b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(91a)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(91b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(91c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(92)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Detected	
(93)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(94a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩虹路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
intertek.com


Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(94b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(95)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(96)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(97)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(98)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(99a)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(99b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(100)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(101)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(102a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(102b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(103a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(103b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(104)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(105)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(106)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(107)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(108)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(109)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(110)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(111)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(112)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(113)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(114)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(115)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(116)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(117)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(118)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Fax +8620 3205 3537
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Test Report

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(119)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(120)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(121)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(122)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(123)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(124)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(125)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(126)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(127)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(128)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(129)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(130)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(131)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(132)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(133)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(134)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(135)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(136a)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(136b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(137)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(138)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Tel +8620 8213 9688
Fax +8620 3205 3537
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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(139)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(140)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(141)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(142a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(142b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(143)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(144a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(144b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(145)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(146a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(146b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(147)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(148)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(149a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(149b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(150)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(151)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(152)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(153)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(154)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(155)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(156)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(157)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(158)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(159)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(160)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(161)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(162)	Cd	ND	Pb:(30420mg)/kg ^{#(1)}
	Pb	>(1300mg)/kg	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(163)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(164)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(165)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(166)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(167)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(168)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(169)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(170)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(171)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(172)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(173)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(174a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(174b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(175)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(176)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(177)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(178)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(179)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(180)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(181)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(182)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(183)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(184)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(185a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(185b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(185c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(185d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(186)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	



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广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

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Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(187)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(188)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(189)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(190)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(191)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(192)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(193a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(193b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(194)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(195)	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(196)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(197)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(198)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(199)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(200)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(201)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(202)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

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Number: GZHH00458186

Tests Conducted

(B) Phthalate Screening Test

Non-toys:

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(1)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(2)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(3)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(4)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(5)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(6)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(7)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(10)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(12)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(13)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(18)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(19)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(20)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(21)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(23)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(25)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(26)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(27)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(30)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(32)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(35)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(37)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(44)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(45b)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(46)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(47a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(48a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(51a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(52a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(53)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(54a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(60)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(61)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(62a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(63)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(64a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(65)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(67a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(68a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(69)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(70a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(71)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(76a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(77a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(79)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(80)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(82a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(84a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(85a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(87)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(89a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(91b)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(92)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(93)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(94a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(95)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(98)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(99a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(100)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(101)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(102a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(103a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(104)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(106)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(107)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(108)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(109)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(111)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(112)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(113)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(114)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(115)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(116)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(117)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(119)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(121)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(122)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(123)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(126)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(128)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(129)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(131)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(132)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(133)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(134)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(135)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(136a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(137)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(138)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(141)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(142a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(143)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(144a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(145)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(146a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(147)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(148)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(149a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(152)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(153)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(154)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(155)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(157)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(165)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(168)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(169)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(171)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(172)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(174a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

深圳天祥质量技术服务有限公司广州分公司

111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China. / Block E, No.7-2 Caipin Road, Science City, GETDD, Guangzhou.

广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
intertek.com



Test Report

Number: GZHH00458186

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(182)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(183)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(186)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(187)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(189)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(192)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(193a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(200)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(201)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(202)	DEHP	P	NT
	BBP	P	
	DBP	P	

DBP =Dibutyl phthalate
 DEHP = Di-(2-ethyl hexyl) phthalate
 BBP = Benzyl butyl phthalate
 DIBP = Di-(iso-butyl) phthalate



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Tel +8620 8213 9688
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intertek.com.cn
intertek.com



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Tests Conducted

Detected = Below the lower screening limit of table (C) and pass

ND = Not detected

NT = Not tested

P = Pass

Negative = A negative test result indicated the concentration of Cr(VI) is less than threshold of (0).(10) $\mu\text{g}/\text{cm}^2$ for boiling-water-extraction procedures by UV-VIS Spectrophotometer analysis. The coating is considered a non-Cr(VI) based coating.

Remark:

(#1) = As claimed by the declaration submitted from the applicant, the Lead content of the component comes from Copper alloy only. According to EU RoHS Directive ((2011/65/EU), Lead in Copper alloy containing up to 4% (40,000 mg/kg) Lead by weight can be exempted.

(# 2) = As claimed by the declaration submitted from the applicant , the Lead content of the component comes from the constituent of high melting temperature type solders (i.e. Lead-based alloys containing 85% by weight or more Lead) only. According to EU RoHS Directive ((2011/65/EU), Lead in high melting temperature type solders of the component can be exempted.

(C) Screening Limits

(C1) XRF Screening limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 300 < X$	Not applicable	$P \leq 250 < X$



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(C2) Preliminary Screening limits in mg/kg for phthalates test.

Phthalates	Polymer Materials
Dibutyl phthalate (DBP)	$P \leq 600 < X$
Di-((2)-ethyl hexyl) phthalate (DEHP)	$P \leq 600 < X$
Benzyl butyl phthalate (BBP)	$P \leq 600 < X$
Di-(iso-butyl) phthalate (DIBP)	$P \leq 600 < X$

P = Pass

X = Inconclusive result

F = Fail

mg/kg = milligram per kilogram = ppm

(D) Estimated Detection Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF Screening and Chemical Confirmation Test Report is sufficient for its/his/her purposes.

The results shown in this XRF Screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis is required to obtain quantitative data.



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Tests Conducted

(E) Chemical Test Methods:

Testing Item	Testing Method	Detection Limit
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion and determined by ICP - OES	2 mg/kg
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	100 mg/kg
Chromium (VI) (Cr ⁶⁺) Content	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer	0.10 µg/cm ²
Chromium (VI) (Cr ⁶⁺) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, Hexavalent chromium – Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method	10 mg/kg
Dibutyl phthalate (DBP) & Di-(2-ethyl hexyl) phthalate (DEHP) & Benzyl butyl phthalate (BBP) & Di-(iso-butyl) phthalate (DIBP)	With reference to IEC 62321-8 Edition 1.0:2017, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis	50 mg/kg

(F) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Di-(2-ethyl hexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di-(iso-butyl) phthalate (DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863 for homogeneous material.

Tested Components: See component list in the last section of this report



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Test Report

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Tests Conducted

Component list:

- (1) yellow soft plastic with white printing
- (2) black soft plastic with white printing
- (3) blue soft plastic with white printing
- (4) black plastic with adhesive
- (5) dull black plastic
- (6) dark red soft plastic
- (7) transparent plastic with glue and inaccessible coatings
- (8) black treated metal
- (9) gold color metal
- (10) red soft plastic
- (11) gold color metal (nut)
- (12) transparent soft plastic(wire covering)
- (13) red soft plastic
- (14) silver color metal (spring)
- (15) black treated metal with blue printing(screw)
- (16) black treated metal with blue printing(screw)
- (17) black treated metal (screw)
- (18) deep red soft plastic
- (19) black plastic
- (20) black fabric with adhesive
- (21) black foam with adhesive
- (22) dull silver color metal
- (23) blue foam with adhesive
- (24) silver color metal
- (25) white glue
- (26) black sponge
- (27) dull apricot woven
- (28) black treated metal with oil
- (29) transparent glass
- (30) transparent plastic label with inaccessible coatings (yellow, black)
- (31) silver color metal (spring)
- (32) dull gunmetal color soft plastic with adhesive
- (33) black treated metal
- (34) black treated metal
- (35) conformal coating with green solder mask & copper color metal pad & fibreboard (PCB)
- (36) grey-brown ceramic with silver color metal (SMD capacitor)
- (37) black body with brown printing & silver color metal(SMD diode)
- (38) brown ceramic with silver color metal (SMD capacitor)
- (39) black ceramic with silver color metal (SMD capacitor)
- (40) black ceramic with silver color metal (SMD capacitor)



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Tests Conducted

- (41) silver color metal
- (42) silver color metal
- (43) white ceramic with silver color metal (SMD capacitor)
- (44) khaki plastic (jack)
- (45) crystal
 - a) silver color metal
 - b) black plastic
 - c) copper color metal (pin)
 - d) silver color metal (spring)
- (46) transparent plastic & white fiberboard with yellow coating & silver color metal (SMD LED)
- (47) diode
 - a) black body
 - b) silver color metal (pin)
- (48) IC
 - a) black body
 - b) silver color metal (pin)
- (49) dark grey ceramic with silver color metal (SMD inductor)
- (50) brown ceramic with silver color metal (SMD capacitor)
- (51) plug
 - a) light apricot plastic
 - b) silver color metal (pin)
- (52) plug
 - a) apricot plastic
 - b) silver color metal (pin)
- (53) white glue
- (54) plug
 - a) black plastic
 - b) gold color/silver color metal (pin)
- (55) silver color metal & quartz & green material (SMD crystal)
- (56) silver color metal & quartz & green material (SMD crystal)
- (57) silver color metal & quartz & green material (SMD crystal)
- (58) silver color metal sheet
- (59) silver color solder
- (60) white coating on plastic
- (61) transparent plastic excluding coating
- (62) plug
 - a) apricot plastic
 - b) gold color metal (pin)
- (63) light brown plastic
- (64) plug
 - a) white plastic with blue printing
 - b) silver color metal (pin)
- (65) black plastic with silver color metal (SMD IC)



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Tests Conducted

- (66) gold color ceramic with silver color metal (SMD cysctal)
- (67) IC
 - a)black body
 - b)silver color metal (pin)
- (68) IC
 - a)black body
 - b)silver color metal (pin)
- (69) black plastic with silver color metal (SMD IC)
- (70) IC
 - a)black body
 - b)silver color metal (pin)
- (71) black plastic with silver color metal (SMD IC)
- (72) silver color metal sheet
- (73) blue ceramic with black material & white printing & silver color metal (SMD resistor)
- (74) silver color metal & quartz & green material (SMD crystal)
- (75) white ceramic with black material & white printing & silver color metal (SMD resistor)
- (76) IC
 - a)black body
 - b)silver color metal (pin)
- (77) IC
 - a)black body
 - b)silver color metal(pin)
- (78) inductor
 - a)dull silver color metal with black printing
 - b)copper color metal
- (79) black/brown FPC with white printing and LED
- (80) black plastic with beige printing & silver color metal (SMD triode)
- (81) silver color metal & quartz & green material (SMD crystal)
- (82) IC
 - a)black body
 - b)silver color metal (pin)
- (83) white ceramic with black material & white printing & silver color metal (SMD resistor)
- (84) IC
 - a)black body
 - b)silver color metal (pin)
- (85) IC
 - a)black body
 - b)silver color metal pin)
- (86) inductor(SMD crystal)
 - a)dull silver color metal with black printing
 - b)copper color metal
- (87) black plastic with silver color metal (SMD IC)
- (88) dark grey ceramic with silver color metal (SMD inductor)
- (89) IC
 - a)black body
 - b)silver color metal (pin)
- (90) inductor
 - a)dull silver color metal with black printing
 - b)copper color metal



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Tests Conducted

- (91) jack
 - a) silver color metal (case)
 - b) black plastic
 - c) copper color metal (pin)
- (92) transparent brown plastic with coatings (black, white, red)
- (93) black plastic
- (94) plug
 - a) white plastic label with blue printing
 - b) silver color metal (pin)
- (95) white soft plastic with brown printing (wire covering)
- (96) silver color metal wire
- (97) silver color solder
- (98) conformal coating with green solder mask & copper color metal pad & fibreboard (pcb)
- (99) plug
 - a) black plastic
 - b) gold color metal (pin)
- (100) conformal coating with green solder mask & copper color metal pad & fibreboard (pcb)
- (101) black body with brown printing & silver color metal (SMD diode)
- (102) plug
 - a) apricot plastic
 - b) gold color/silver color metal (pin)
- (103) plug
 - a) white plastic
 - b) silver color metal (pin)
- (104) grey soft plastic (wire covering)
- (105) silver color metal wire
- (106) conformal coating with green solder mask & copper color metal pad & fibreboard (pcb)
- (107) black plastic with white printing and gold color metal (SD card)
- (108) gold color plastic label with transparent plastic film and inaccessible coating
- (109) black foam with adhesive
- (110) silver color metal with black printing
- (111) conformal coating with green solder mask & copper color metal pad & fibreboard / transparent glass with black printing
- (112) pearlized white coating on plastic
- (113) transparent plastic excluding coating
- (114) transparent plastic
- (115) white plastic
- (116) transparent white plastic
- (117) white plastic
- (118) silver-grey metal
- (119) black soft plastic
- (120) silver color metal



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Tests Conducted

- (121) black plastic
- (122) transparent plastic and adhesive
- (123) black soft plastic (thick wire covering)
- (124) silver color metal wire
- (125) silver color solder
- (126) black/brown FPC and black printing
- (127) silver color metal
- (128) black grey glue
- (129) black soft plastic (thin wire covering)
- (130) silver color metal wire
- (131) red soft plastic (thin wire covering)
- (132) black foam
- (133) transparent double sides adhesive tape
- (134) yellow/brown FPC with white printing
- (135) transparent yellow plastic
- (136) plug
 - a) black plastic
 - b) silver color/gold color metal (pin)
- (137) yellow/brown FPC with white printing
- (138) transparent/black plastic label with inaccessible coatings (silver color)
- (139) silver color metal
- (140) silver color metal
- (141) black plastic
- (142) plug
 - a) grey plastic
 - b) silver color metal (pin)
- (143) transparent yellow plastic label
- (144) IC
 - a) black body
 - b) silver color metal (pin)
- (145) black FPC with white printing
- (146) IC
 - a) black body
 - b) silver color metal (pin)
- (147) black/brown FPC with white printing
- (148) black FPC with white printing
- (149) IC
 - a) black body
 - b) silver color metal (pin)
- (150) gold color metal



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Tests Conducted

- (151) silver color metal
- (152) black/gold color FPC with white printing
- (153) yellow/brown FPC with white printing
- (154) transparent plastic & white fiberboard with white coating & silver color metal (SMD LED)
- (155) transparent plastic
- (156) transparent glass
- (157) conformal coating with green solder mask & copper color metal pad & fibreboard (PCB)
- (158) silver color metal
- (159) silver color metal
- (160) white ceramic
- (161) transparent grey glass
- (162) gold color metal (nut)
- (163) silver color metal
- (164) silver color metal
- (165) yellow/brown FPC with white printing
- (166) silver color metal
- (167) black treated metal
- (168) white glue
- (169) conformal coating with green solder mask & copper color metal pad & fibreboard (PCB)
- (170) silver color metal with blue printing(screw)
- (171) black FPC with white printing
- (172) black fabric with glue
- (173) silver color metal with blue printing(screw)
- (174) plug
 - a) black plastic
 - b) gold color/silver color metal
- (175) silver color metal
- (176) black treated metal
- (177) bright black treated metal
- (178) black treated metal
- (179) silver color metal (screw)
- (180) silver color metal with silver color glitter
- (181) silver color/blue metal
- (182) black plastic
- (183) grey plastic
- (184) black treated metal (screw)
- (185) inductor
 - a) silver color metal
 - b) copper color metal(wire)
 - c) black magnet
 - d) silver color metal (pin)
- (186) conformal coating with green solder mask & copper color metal pad & fibreboard (PCB)
- (187) transparent plastic with adhesive
- (188) silver color metal
- (189) conformal coating with green solder mask & copper color metal pad & fibreboard (PCB)
- (190) transparent glass with black printing



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Tests Conducted

- (191) transparent grey glass
- (192) transparent plastic with dark grey printing
- (193) plug
 - a) white plastic
 - b) silver color metal (pin)
- (194) silver color metal (screw)
- (195) silver color metal with blue printing(screw)
- (196) silver color metal (screw)
- (197) silver color metal (screw)
- (198) silver color metal (screw)
- (199) black treated metal (screw)
- (200) black soft plastic
- (201) black coating on metal
- (202) silver color metal excluding coating

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深圳天祥质量技术服务有限公司广州分公司

111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China. / Block E, No.7-2 Caipin Road, Science City, GETDD, Guangzhou.

广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
intertek.com



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深圳天祥质量技术服务有限公司广州分公司

111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China. / Block E, No.7-2 Caipin Road, Science City, GETDD, Guangzhou.

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Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
intertek.com



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深圳天祥质量技术服务有限公司广州分公司

111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China. / Block E, No.7-2 Caipin Road, Science City, GETDD, Guangzhou.

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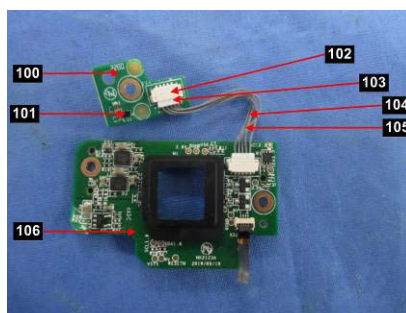
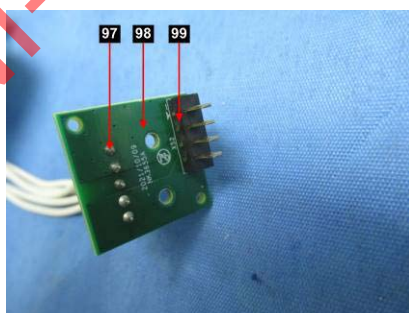
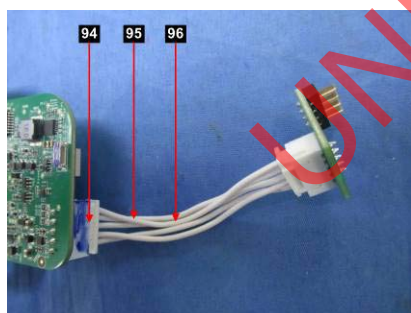
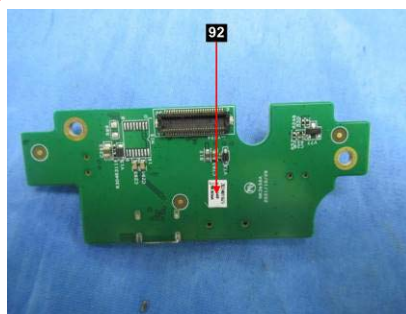
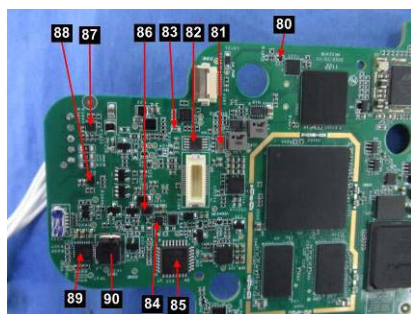
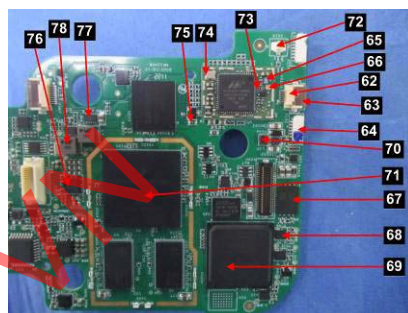
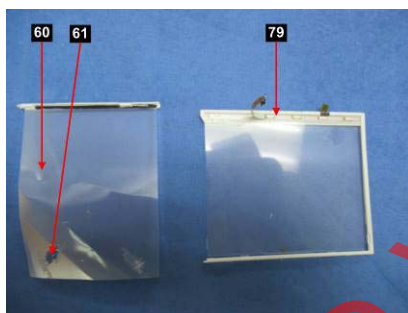
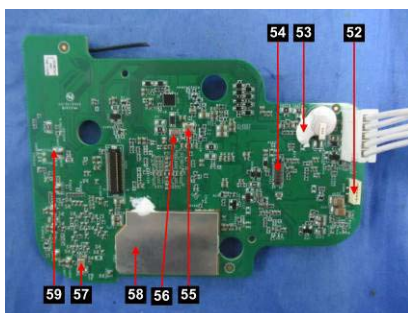
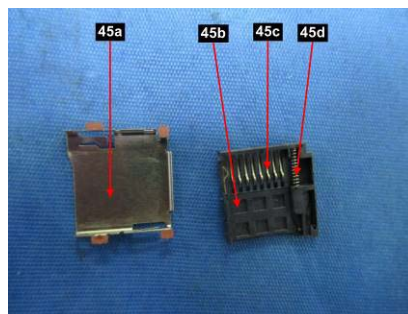
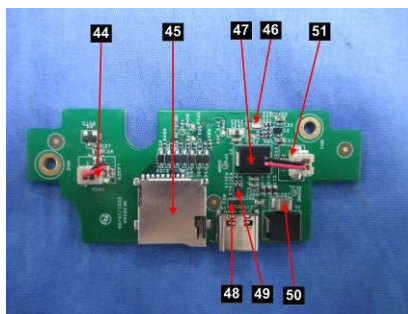
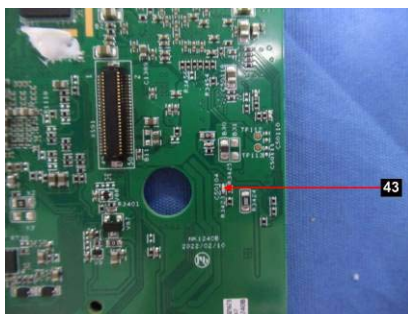
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Fax +8620 3205 3537
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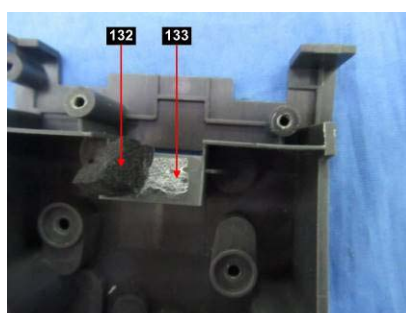
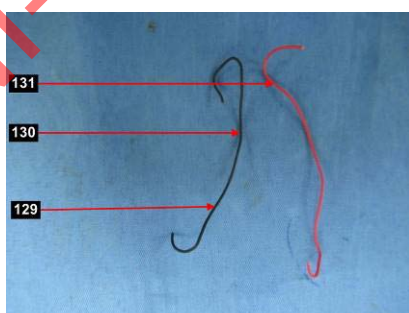
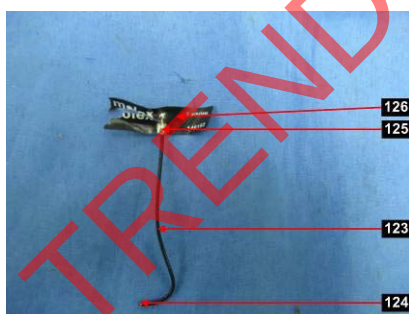
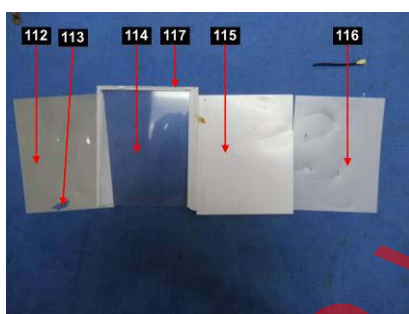
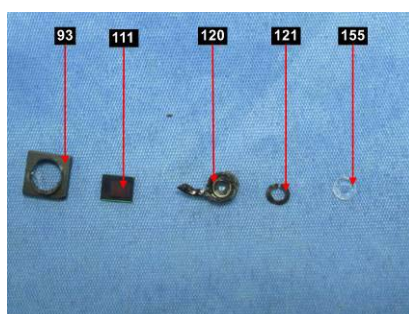
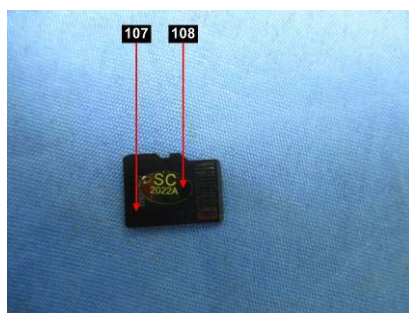
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深圳天祥质量技术服务有限公司广州分公司

111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China. / Block E, No.7-2 Caipin Road, Science City, GETDD, Guangzhou.

广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
intertek.com



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

深圳天祥质量技术服务有限公司广州分公司

111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China. / Block E, No.7-2 Caipin Road, Science City, GETDD, Guangzhou.

广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

Tel +8620 8213 9688

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111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China. / Block E, No.7-2 Caipin Road, Science City, GETDD, Guangzhou.

广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

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广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室/广州经济技术开发区科学城彩频路 7 号之二 E 栋(510663)

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End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/(09):(2019) (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

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intertek.com.cn
intertek.com

