

Block B, Jinling Business Square,No.801 Yi Shan Road, Shanghai, China, 200233

Tel: +86 21 6120 6565 Fax: +86 21 6127 9740 www.intertek.com www.intertek.com.cn China Toll-Free: 800 999 1338

TEST REPORT

APPLICANT: EPCOS (ZHUHAI FTZ) CO., LTD.

LIANFENG LU, ZHUHAI FREE TRAD ZONE, WANZAI, ZHUHAI,

GUANGDONG, CHINA. ATTN: SUNNY PAN

THIS IS TO SUPERSEDE REPORT NO. SHAHO0254100 DATED MAY 06, 2011

NUMBER: SHAH00254100S101

DATE: MAY 16, 2011

SAMPLE DESCRIPTION:

SAMPLE NO.	MATERIAL DESCRIPTION	APPLICATION
1	METALLIZED POLYPROPYLENE	C, F
	FILM	
2	METALLIZED POLYEESTER	A, B, D, E
	FILM	
3	COVER FILM	A, D
4	SPRAYED METAL SnCu3	A, B, C, D, E, F, K, M
5	SPRAYED METAL Al	A, B, C, D, E, M
6	SPRAYED METAL Zn	B, C, E, F, K, L
7	CURED EPOXY(BLUE)	B, C, K
8	CURED POWDER (BLUE)	E, F, L
9	LEAD WIRE Cu	B, C, E, F, K, L
11	LEAD WIRE Fe	A, B, C, D , E, F, M
13	PBT PLASTIC BOX	В, С, Ј, К
14	PLASTIC TUBE(PET)	D
15	PRINT INK	A, B, C, D, E, F, G, H, I, J, K,
		L, M
******	*********	***********

TO BE CONTINUED

PREPARED AND CHECKED BY: FOR INTERTEK TESTING SERVICES LTD., SHANGHAI

MYRA LV CHEMICAL LAB SENIOR MANAGER AUTHORIZED BY:

FOR INTERTEK TESTING SERVICES LTD., SHANGHAI

STEPHEN TSANG GENERAL MANAGER



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16	LEAD WIRE Cu	G,	I,	K				
17	TERMINAL	J,	K					
18	YELLOW TAPE	G,	Η,	I				
19	METAILIZED FILM	G,	Η,	I,	J,	K,	L,	M
20	SPRAYED METAL	G,	Η,	I,	J,	Κ,	L,	M
21	CURED EPOXY (YELLOW)	G,	Η,	I,	J,	Κ,	L	
22	WIRE-METAL	Η						
23	WIRE-PLASTIC	Η						
24	PET TRANSPARENT TAPE	Α						
25	PLASTIC TUBE (POLIOLEFINA)	D						
26	PP TRANSPARENT TAPE	Α						

TO BE CONTINUED

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ABOVE SUBSTANCE USED IN BELOW SERIES:

A: MKT FILM CAPACITOR (UN-COATED): B3256*, B3257*

B: MKT FILM CAPACITOR (BOXED): B3252*,B3293*

C: MKP FILM CAPACITOR (BOXED): B3265*, B32656S*, B3267*, B3292*,

B8112*, B8113*, B3202*, B3277*, B3291*, B3262*, B3279*

D: MKT FILM CAPACITOR (MINIBLUE): B3255*

E: MKT FILM CAPACITOR (DIPPED): B3251*, B3259*

F: MKP FILM CAPACITOR (DIPPED): B3260*, B3261*, B8119*

G: MKT AXIAL ROUND: B32231*, B32232*, B32227*, B32237*,

H: MKP AXIAL CAPACITOR: B32665*

I: MKP AXIAL SNUBBER: B32669*

J: MKP BOXED SNUBBER: B32656*

K: MFP FILM CAPACITOR (BOXED): B32686A*, B32686S*

L: MFP FILM CAPACITOR (DIPPED):B3263*

M: MKN FILM CAPACITOR (UN-COATED): B32861*

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

TO BE CONTINUED

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TEST REPORT NUMBER: SHAH00254100S101

TESTS CONDUCTED

(A) TEST RESULT SUMMARY:

TESTING ITEM	RESULT			
IBSIING IIBM	(4)	(5)	(6)	(9)
CADMIUM (Cd) CONTENT (mg/kg)	ND	ND	ND	ND
LEAD (Pb) CONTENT (mg/kg)	241	70	ND	76
MERCURY (Hg) CONTENT (mg/kg)	ND	ND	ND	ND
CHROMIUM (VI)(Cr ⁶⁺) RESULT (BY BOILING WATER EXTRACTION ON METAL) (mg/kg WITH 50cm ²)	ND	ND	ND	ND

TESTING ITEM	RESULT				
IEDIING IIEM	(11)	(16)	(17)	(20)	(22)
CADMIUM (Cd) CONTENT (mg/kg)	ND	ND	ND	ND	ND
LEAD (Pb) CONTENT (mg/kg)	ND	28	92	30	22
MERCURY (Hg) CONTENT (mg/kg)	ND	ND	ND	ND	ND
CHROMIUM (VI)(Cr ⁶⁺) RESULT (BY BOILING WATER EXTRACTION ON METAL) (mg/kg WITH 50cm ²)	ND	ND	ND	ND	ND
**********	****	****	*****	****	*****



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TESTS CONDUCTED

TESTING ITEM		RESULT	
IESIING IIEM	(1)	(2)	(3)
CADMIUM (Cd) CONTENT (mg/kg)	ND	ND	ND
LEAD (Pb) CONTENT (mg/kg)	ND	ND	ND
MERCURY (Hg) CONTENT (mg/kg)	ND	ND	ND
CHROMIUM (VI) (Cr^{6+}) CONTENT (mg/kg) (FOR NON-METAL)	ND	ND	ND
POLYBROMINATED BIPHENYLS (PBBs) (mg/kg)			
MONOBROMO BIPHENYLS (MonoBB)	ND	ND	ND
DIBROMO BIPHENYLS (DiBB)	ND	ND	ND
TRIBROMO BIPHENYLS (TriBB)	ND	ND	ND
TETRABROMO BIPHENYLS (TetraBB)	ND	ND	ND
PENTABROMO BIPHENYLS (PentaBB)	ND	ND	ND
HEXABROMO BIPHENYLS (HexaBB)	ND	ND	ND
HEPTABROMO BIPHENYLS (HeptaBB)	ND	ND	ND
OCTABROMO BIPHENYLS (OctaBB)	ND	ND	ND
NONABROMO BIPHENYLS (NonaBB)	ND	ND	ND
DECABROMO BIPHENYL (DecaBB)	ND	ND	ND
POLYBROMINATED DIPHENYL ETHERS (PBDEs) (mg	/kg)		
MONOBROMO DIPHENYL ETHERS (MonoBDE)	ND	ND	ND
DIBROMO DIPHENYL ETHERS (DiBDE)	ND	ND	ND
TRIBROMO DIPHENYL ETHERS (TriBDE)	ND	ND	ND
TETRABROMO DIPHENYL ETHERS (TetraBDE)	ND	ND	ND
PENTABROMO DIPHENYL ETHERS (PentaBDE)	ND	ND	ND
HEXABROMO DIPHENYL ETHERS (HexaBDE)	ND	ND	ND
HEPTABROMO DIPHENYL ETHERS (HeptaBDE)	ND	ND	ND
OCTABROMO DIPHENYL ETHERS (OctaBDE)	ND	ND	ND
NONABROMO DIPHENYL ETHERS (NonaBDE)	ND	ND	ND
DECABROMO DIPHENYL ETHER (DecaBDE)	ND	ND	ND



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TESTS CONDUCTED

MICHING THON		RESULT			
TESTING ITEM	(7)	(8)	(13)		
CADMIUM (Cd) CONTENT (mg/kg)	ND	ND	ND		
LEAD (Pb) CONTENT (mg/kg)	ND	ND	ND		
MERCURY (Hg) CONTENT (mg/kg)	ND	ND	ND		
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (mg/kg) (FOR NON-METAL)	ND	ND	ND		
POLYBROMINATED BIPHENYLS (PBBs) (mg/kg)					
MONOBROMO BIPHENYLS (MonoBB)	ND	ND	ND		
DIBROMO BIPHENYLS (DiBB)	ND	ND	ND		
TRIBROMO BIPHENYLS (TriBB)	ND	ND	ND		
TETRABROMO BIPHENYLS (TetraBB)	ND	ND	ND		
PENTABROMO BIPHENYLS (PentaBB)	ND	ND	ND		
HEXABROMO BIPHENYLS (HexaBB)	ND	ND	ND		
HEPTABROMO BIPHENYLS (HeptaBB)	ND	ND	ND		
OCTABROMO BIPHENYLS (OctaBB)	ND	ND	ND		
NONABROMO BIPHENYLS (NonaBB)	ND	ND	ND		
DECABROMO BIPHENYL (DecaBB)	ND	ND	ND		
POLYBROMINATED DIPHENYL ETHERS (PBDEs) (mg	/kg)				
MONOBROMO DIPHENYL ETHERS (MonoBDE)	ND	ND	ND		
DIBROMO DIPHENYL ETHERS (DiBDE)	ND	ND	ND		
TRIBROMO DIPHENYL ETHERS (TriBDE)	ND	ND	ND		
TETRABROMO DIPHENYL ETHERS (TetraBDE)	ND	ND	ND		
PENTABROMO DIPHENYL ETHERS (PentaBDE)	ND	ND	ND		
HEXABROMO DIPHENYL ETHERS (HexaBDE)	ND	ND	ND		
HEPTABROMO DIPHENYL ETHERS (HeptaBDE)	ND	ND	ND		
OCTABROMO DIPHENYL ETHERS (OctaBDE)	ND	ND	ND		
NONABROMO DIPHENYL ETHERS (NonaBDE)	ND	ND	ND		
DECABROMO DIPHENYL ETHER (DecaBDE)	ND	ND	ND		



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TESTS CONDUCTED

MRGMING IMPN		RESULT	
TESTING ITEM	(14)	(15)	(18)
CADMIUM (Cd) CONTENT (mg/kg)	ND	ND	ND
LEAD (Pb) CONTENT (mg/kg)	ND	ND	ND
MERCURY (Hg) CONTENT (mg/kg)	ND	ND	ND
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (mg/kg) (FOR NON-METAL)	ND	ND	ND
POLYBROMINATED BIPHENYLS (PBBs) (mg/kg)			
MONOBROMO BIPHENYLS (MonoBB)	ND	ND	ND
DIBROMO BIPHENYLS (DiBB)	ND	ND	ND
TRIBROMO BIPHENYLS (TriBB)	ND	ND	ND
TETRABROMO BIPHENYLS (TetraBB)	ND	ND	ND
PENTABROMO BIPHENYLS (PentaBB)	ND	ND	ND
HEXABROMO BIPHENYLS (HexaBB)	ND	ND	ND
HEPTABROMO BIPHENYLS (HeptaBB)	ND	ND	ND
OCTABROMO BIPHENYLS (OctaBB)	ND	ND	ND
NONABROMO BIPHENYLS (NonaBB)	ND	ND	ND
DECABROMO BIPHENYL (DecaBB)	ND	ND	ND
POLYBROMINATED DIPHENYL ETHERS (PBDEs) (mg	/kg)		
MONOBROMO DIPHENYL ETHERS (MonoBDE)	ND	ND	ND
DIBROMO DIPHENYL ETHERS (DiBDE)	ND	ND	ND
TRIBROMO DIPHENYL ETHERS (TriBDE)	ND	ND	ND
TETRABROMO DIPHENYL ETHERS (TetraBDE)	ND	ND	ND
PENTABROMO DIPHENYL ETHERS (PentaBDE)	ND	ND	ND
HEXABROMO DIPHENYL ETHERS (HexaBDE)	ND	ND	ND
HEPTABROMO DIPHENYL ETHERS (HeptaBDE)	ND	ND	ND
OCTABROMO DIPHENYL ETHERS (OctaBDE)	ND	ND	ND
NONABROMO DIPHENYL ETHERS (NonaBDE)	ND	ND	ND
DECABROMO DIPHENYL ETHER (DecaBDE)	ND	ND	ND



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TESTING ITEM		RESULT	
IESIING IIEM	(19)	(21)	(23)
CADMIUM (Cd) CONTENT (mg/kg)	ND	ND	ND
LEAD (Pb) CONTENT (mg/kg)	ND	ND	ND
MERCURY (Hg) CONTENT (mg/kg)	ND	ND	ND
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (mg/kg) (FOR NON-METAL)	ND	ND	ND
POLYBROMINATED BIPHENYLS (PBBs) (mg/kg)			
MONOBROMO BIPHENYLS (MonoBB)	ND	ND	ND
DIBROMO BIPHENYLS (DiBB)	ND	ND	ND
TRIBROMO BIPHENYLS (TriBB)	ND	ND	ND
TETRABROMO BIPHENYLS (TetraBB)	ND	ND	ND
PENTABROMO BIPHENYLS (PentaBB)	ND	ND	ND
HEXABROMO BIPHENYLS (HexaBB)	ND	ND	ND
HEPTABROMO BIPHENYLS (HeptaBB)	ND	ND	ND
OCTABROMO BIPHENYLS (OctaBB)	ND	ND	ND
NONABROMO BIPHENYLS (NonaBB)	ND	ND	ND
DECABROMO BIPHENYL (DecaBB)	ND	ND	ND
POLYBROMINATED DIPHENYL ETHERS (PBDEs) (mg	/kg)		
MONOBROMO DIPHENYL ETHERS (MonoBDE)	ND	ND	ND
DIBROMO DIPHENYL ETHERS (DiBDE)	ND	ND	ND
TRIBROMO DIPHENYL ETHERS (TriBDE)	ND	ND	ND
TETRABROMO DIPHENYL ETHERS (TetraBDE)	ND	ND	ND
PENTABROMO DIPHENYL ETHERS (PentaBDE)	ND	ND	ND
HEXABROMO DIPHENYL ETHERS (HexaBDE)	ND	ND	ND
HEPTABROMO DIPHENYL ETHERS (HeptaBDE)	ND	ND	ND
OCTABROMO DIPHENYL ETHERS (OctaBDE)	ND	ND	ND
NONABROMO DIPHENYL ETHERS (NonaBDE)	ND	ND	ND
DECABROMO DIPHENYL ETHER (DecaBDE)	ND	ND	ND



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TESTS CONDUCTED

TESTING ITEM	RESULT		
IESIING IIEM	(24)	(25)	(26)
CADMIUM (Cd) CONTENT (mg/kg)	ND	ND	ND
LEAD (Pb) CONTENT (mg/kg)	ND	ND	ND
MERCURY (Hg) CONTENT (mg/kg)	ND	ND	ND
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (mg/kg) (FOR NON-METAL)	ND	ND	ND
POLYBROMINATED BIPHENYLS (PBBs) (mg/kg)			
MONOBROMO BIPHENYLS (MonoBB)	ND	ND	ND
DIBROMO BIPHENYLS (DiBB)	ND	ND	ND
TRIBROMO BIPHENYLS (TriBB)	ND	ND	ND
TETRABROMO BIPHENYLS (TetraBB)	ND	ND	ND
PENTABROMO BIPHENYLS (PentaBB)	ND	ND	ND
HEXABROMO BIPHENYLS (HexaBB)	ND	ND	ND
HEPTABROMO BIPHENYLS (HeptaBB)	ND	ND	ND
OCTABROMO BIPHENYLS (OctaBB)	ND	ND	ND
NONABROMO BIPHENYLS (NonaBB)	ND	ND	ND
DECABROMO BIPHENYL (DecaBB)	ND	ND	ND
POLYBROMINATED DIPHENYL ETHERS (PBDEs) (mg	/kg)		
MONOBROMO DIPHENYL ETHERS (MonoBDE)	ND	ND	ND
DIBROMO DIPHENYL ETHERS (DiBDE)	ND	ND	ND
TRIBROMO DIPHENYL ETHERS (TriBDE)	ND	ND	ND
TETRABROMO DIPHENYL ETHERS (TetraBDE)	ND	ND	ND
PENTABROMO DIPHENYL ETHERS (PentaBDE)	ND	ND	ND
HEXABROMO DIPHENYL ETHERS (HexaBDE)	ND	ND	ND
HEPTABROMO DIPHENYL ETHERS (HeptaBDE)	ND	ND	ND
OCTABROMO DIPHENYL ETHERS (OctaBDE)	ND	ND	ND
NONABROMO DIPHENYL ETHERS (NonaBDE)	ND	ND	ND
DECABROMO DIPHENYL ETHER (DecaBDE)	ND	ND	ND



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TESTS CONDUCTED

REMARK:

mg/kg = MILLIGRAM PER KILOGRAM = ppm mg/kg WITH 50cm² = MILLIGRAM PER KILOGRAM WITH 50 SQUARE CENTIMETER ND = NOT DETECTED

(B) 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)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT 2005/618/EC FOR HOMOGENEOUS MATERIAL.



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TESTS CONDUCTED

(C) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY ACID DIGESTION AND DETERMINED BY ICP- OES	2 mg/kg
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY ACID DIGESTION AND DETERMINED BY ICP- OES	2 mg/kg
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY ACID DIGESTION AND DETERMINED BY ICP- OES	2 mg/kg
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR NON-METAL)	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY ALKALINE DIGESTION AND DETERMINED BY UV- VIS SPECTROPHOTOMETER	1 mg/kg
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR METAL)	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY BOILING WATER EXTRACTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	0.02mg/kg WITH 50cm ² (IN TESTING SOLUTION)
POLYBROMINATED BIPHENYLS (PBBs) & POLYBROMINATED DIPHENYL ETHERS (PBDEs)	WITH REFERENCE TO IEC IEC 62321 EDITION 1.0: 2008, BY SOLVENT EXTRACTION AND DETERMINED BY GC/MS AND FURTHER HPLC CONFIRMATION WHEN NECESSARY.	5 mg/kg

DATE SAMPLE RECEIVED: APR.28, 2011

TESTING PERIOD: APR.28, 2011 TO MAY 04, 2011



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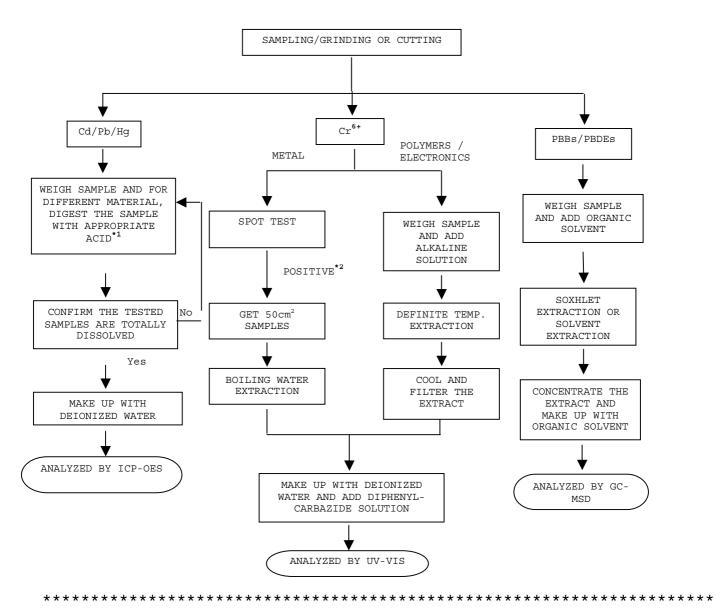
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TESTS CONDUCTED

(D) MEASUREMENT FLOWCHART:

TEST FOR Cd/Pb/Hg/Cr (VI)/PBBs/PBDEs CONTENTS REFERENCE STANDARD: IEC 62321 EDITION 1.0: 2008





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TESTS CONDUCTED REMARKS:

*1: LIST OF APPROPRIATE ACID:

MATERIAL	ACID ADDED FOR DIGESTION
POLYMERS	HNO ₃ ,HCl,HF,H ₂ O ₂ ,H ₃ BO ₃
METALS	HNO _{3,} HCl,HF
ELECTRONICS	HNO ₃ ,HCl,H ₂ O ₂ ,HBF ₄

*2: IF THE RESULT OF SPOT TEST IS POSITIVE, CHROMIUM VI WOULD BE DETERMINED AS DETECTED.



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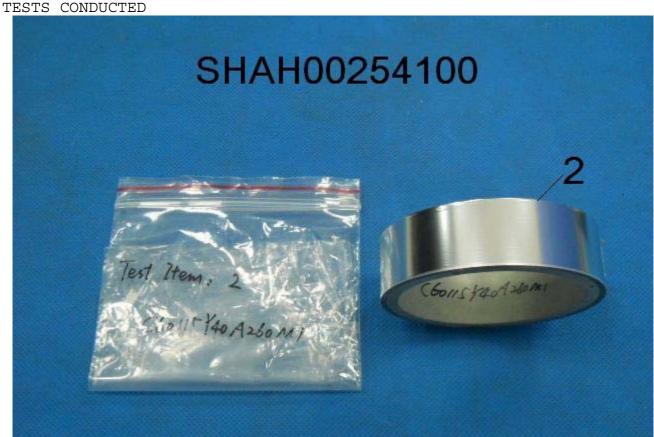
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Tel: +86 21 6120 6565 Fax: +86 21 6127 9740 www.intertek.com www.intertek.com.cn China Toll-Free: 800 999 1338

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END OF REPORT

To: Epcos (Zhuhai Ftz) Co., Ltd.

Attention: Sunny Pan Date: May 16, 2011

Re: Report Revision Notification

Intertek Testing Services Report Number SHAH00254100 Dated May 06, 2011.

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report Number SHAH00254100S101.

Please return the original captioned report to us immediately.

Thank you for your attention.

PREPARED AND CHECKED BY: FOR INTERTEK TESTING SERVICES LTD., SHANGHAI

MYRA LV CHEMICAL LAB SENIOR MANAGER AUTHORIZED BY: FOR INTERTEK TESTING SERVICES LTD., SHANGHAI

STEPHEN TSANG GENERAL MANAGER