Prüfbericht - Nr.: *Test Report No.:*	Z06804480-1 Supplement No. 1 to Test Report Z06804480	**Seite 1 von 8** *Page 1 of 8*
Auftraggeber: *Client:*	**QUANZHOU SOUTHEAST PHOTOELECTRIC CO., LTD.** 51#, Detai Rd., Quanzhou Economy and Technology Development Zone, Fujian, P. R. China	
Prüfgegenstand: *Test item:*	33 materials (Please refer to material list on Page 2.)	
Bezeichnung: *Identification:*	ST-2812S, ST-0412S, ST-0612S, ST-0812S, ST-1214S, ST-1614S, ST-35814S, ST-061514S, ST-281214S, ST-055014S, ST066014S, ST-2812Z, ST-0412Z, ST-0612Z, ST-0812Z, ST-1214Z, ST-1614Z, ST-35814Z, ST-061514Z, ST-281214Z, ST-055014Z, ST-066014Z, ST-398014S, ST-398014Z, ST-2820H, ST-3620H, ST-0420H, ST-0620H, ST-0820H, ST-1220H, ST-1620H, ST-2820F, ST-0416F, ST-0616F, ST-0816F, ST-1216F, ST-1616F, ST-IR2516F, ST-IR0416F, ST-IR0616F, ST-IR0816F, ST-IR1216F, ST-IR1616F, ST-IR2516F, ST-IR350812Z, ST-IR261612Z, ST-IR1010012Z, ST-0510014Z, ST-0510014S, ST-IR350812S	
Anlieferungszustand: *Delivery condition:*	Einwandfrei: *apparent good*	**Eingangsdatum:** *Date of receipt:* Feb. 13th 2006; Mar. 22nd 2006; May. 18th 2006
Prüfort: *Testing location:*	TÜV Rheinland (Shenzhen) Co. Ltd. Industrial Products Testing Center	
Prüfgrundlage: *Test specification:*	IEC 111/54/CDV (Project Number: 62321, Ed.1) - Procedures for Determination of Levels of Six Regulated Substances in Electrical Products.	
Prüfergebnis: *Test result:*	**Nach Art und Umfang der durchgeführten Prüfungen entspricht der Prüfgegenstand der oben genannten Prüfgrundlage.** According to the kind and extent of tests performed the test items comply with the test specification.	

Geprüft: tested by:			**Kontrolliert:** *checked by:*		
Jan. 10th 2007	Leo Lee Senior Chemist		Jan. 10th 2007	Chen Ling Manager	
Datum *Date*	**Name** *Name*	**Unterschrift** *Signature*	**Datum** *Date*	**Name** *Name*	**Unterschrift** *Signature*

Sonstiges/ *Other Aspects:*

Test period: Mar. 02nd 2006 - Mar. 24th 2006; May 19th 2006 – Jun. 12th 2006

Based on the randomly sampled examinations performed, the test specimen correspond to above requirements. With regard to the parameters tested, the requirements of Commission Decision 2005/618/EC of 18 August 2005, amending Directive 2002/95/EC (RoHS), are met.

Abkürzungen:			*Abbreviations:*		
ok / P	=	*entspricht Prüfgrundlage*	*ok / P*	=	*passed*
fail / F	=	*entspricht nicht Prüfgrundlage*	*fail / F*	=	*failed*
n.a. / N	=	*nicht anwendbar*	*n.a. / N*	=	*not applicable*

Our Reference No.: Z06804480-1

1. Material list

Testing material No.	Component	Material	Colour
1	Body	Plastic	Black
2	Body (outside cylinder)	Plastic	Black
3	Screw	Metal	Silver
4	Cover	Plastic	Black
5	Wire	Plastic	Black
6	Wire (inner)	Plastic	Red
7	Wire (inner)	Plastic	White
8	Wire (inner)	Plastic	Yellow
9	Wire (inner)	Plastic	Grey
10	Wire (inner)	Plastic	Black
11	Wire (inner)	Plastic	White with black letters
12	Wire (inner)	Plastic	Lime-green
13	Wire (inner)	Metal	Silver
14	Plug	Plastic	Black
16	End of wire	Plastic	Black
17	Shrinkable tube	Plastic	Black with white letters
18	Wire connecter	Plastic	White
19	Wire connecter inner	Metal	Silver
20	PCB board	Plastic/metal	Green/silver
21	Sticker band	Plastic	Blue
22	Cylinder	Metal	Silver
23	Cylinder	Plastic	Black
24	Coil	Metal	Copper-colored
25	Coil	Metal	Red
26	Base of coil	Plastic	Black
27	Inner of base	Metal	Black sheet
28	Ring	Metal	Silver
29	Ring	Metal	Black
30	Washer	Metal	Golden
31	Red wire (short)	Plastic	Red
32	Washer (small)	Metal	Black
34	Lens holder	Metal	Black
36	Washer	Metal	Grey

TÜV RHEINLAND (SHENZHEN) CO., LTD.

Our Reference No.: Z06804480-1

2. Testing sample list

Testing sample No.	Testing required	Composition
1	Cadmium, Lead, Chromium (VI), Mercury	1
2	Cadmium, Lead, Chromium (VI), Mercury	2
3	Cadmium, Lead, Chromium (VI), Mercury	3
4	Cadmium, Lead, Chromium (VI), Mercury	4
5	Cadmium, Lead, Chromium (VI), Mercury	5
6	Cadmium, Lead, Chromium (VI), Mercury	6
7	Cadmium, Lead, Chromium (VI), Mercury	7
8	Cadmium, Lead, Chromium (VI), Mercury	8
9	Cadmium, Lead, Chromium (VI), Mercury	9
10	Cadmium, Lead, Chromium (VI), Mercury	10
11	Cadmium, Lead, Chromium (VI), Mercury	11
12	Cadmium, Lead, Chromium (VI), Mercury	12
13	Cadmium, Lead, Chromium (VI), Mercury	13
14	Cadmium, Lead, Chromium (VI), Mercury	14
16	Cadmium, Lead, Chromium (VI), Mercury	16
17	Cadmium, Lead, Chromium (VI), Mercury	17
18	Cadmium, Lead, Chromium (VI), Mercury	18
19	Cadmium, Lead, Chromium (VI), Mercury	19
20	Cadmium, Lead, Chromium (VI), Mercury	20
21	Cadmium, Lead, Chromium (VI), Mercury	21
22	Cadmium, Lead, Chromium (VI), Mercury	22
23	Cadmium, Lead, Chromium (VI), Mercury	23
24	Cadmium, Lead, Chromium (VI), Mercury	24
25	Cadmium, Lead, Chromium (VI), Mercury	25
27	Cadmium, Lead, Chromium (VI), Mercury	27
28	Cadmium, Lead, Chromium (VI), Mercury	28
29	Cadmium, Lead, Chromium (VI), Mercury	29
30	Cadmium, Lead, Chromium (VI), Mercury	30
31	Cadmium, Lead, Chromium (VI), Mercury	31
32	Cadmium, Lead, Chromium (VI), Mercury	32
34	Cadmium, Lead, Chromium (VI), Mercury	34
36	Cadmium, Lead, Chromium (VI), Mercury	36

Our Reference No.: Z06804480-1

2. Testing sample list

Testing sample No.	Testing required	Composition
37	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	1
38	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	2
39	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	5
40	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	12
41	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	14
42	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	16
43	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	17
44	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	18
45	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	20
46	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	26
47	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	4+5
48	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	6+7
49	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	8+9
50	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	10+11
51	Polybrominated Biphenyls + Polybrominated Diphenyl Ethers	21+23

Our Reference No.: Z06804480-1

3. Heavy metal

Test method : Cadmium - according to BS EN 1122; determination with ICP
Lead - according to EPA3050B; determination with ICP
Mercury - following EN 1483; determination with AAS
Chromium (VI) - following DIN 53314; determination with UV/VIS

Proposed limit by Technical Committee (TAC) : Cadmium: 0.01% = 100mg/kg
Chromium (VI): 0.1% = 1000mg/kg
Lead: 0.1% = 1000mg/kg
Mercury: 0.1% = 1000mg/kg

given as % by weight in homogenous materials

Test sample		MDL	No.1	No.2	No.3	No.4
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND
Lead (Pb)	mg/kg	10	ND	ND	>5000(*)	35
Mercury (Hg)	mg/kg	10	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	10	ND	ND	20	ND

Test sample		MDL	No.5	No.6	No.7	No.8
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND
Lead (Pb)	mg/kg	10	ND	10	15	15
Mercury (Hg)	mg/kg	10	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	10	ND	ND	15	10

Test sample		MDL	No.9	No.10	No.11	No.12
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND
Lead (Pb)	mg/kg	10	ND	10	ND	ND
Mercury (Hg)	mg/kg	10	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	10	ND	ND	ND	ND

Test sample		MDL	No.13	No.14	No.16
Cadmium (Cd)	mg/kg	10	ND	ND	ND
Lead (Pb)	mg/kg	10	55	ND	11
Mercury (Hg)	mg/kg	10	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	10	ND	ND	12

Test sample		MDL	No.17	No.18	No.19	No.20
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND
Lead (Pb)	mg/kg	10	ND	ND	240	14
Mercury (Hg)	mg/kg	10	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	10	ND	ND	ND	23

Test sample		MDL	No.21	No.22	No.23	No.24
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND
Lead (Pb)	mg/kg	10	18	ND	34	70
Mercury (Hg)	mg/kg	10	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	10	14	ND	17	ND

Notes:
- 10 mg/kg = 0.001% by weight
- ND = Not detected
- MDL = Method Detection Limit

Our Reference No.: Z06804480-1

3. Heavy metal

Test method : Cadmium - according to BS EN 1122; determination with ICP
Lead - according to EPA3050B; determination with ICP
Mercury - following EN 1483; determination with AAS
Chromium (VI) - following DIN 53314; determination with UV/VIS

Proposed limit by Technical Committee (TAC) : Cadmium: 0.01% = 100mg/kg
Chromium (VI): 0.1% = 1000mg/kg
Lead: 0.1% = 1000mg/kg
Mercury: 0.1% = 1000mg/kg

given as % by weight in homogenous materials

Test sample		MDL	No.25	No.26	No.27	No.28
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND
Lead (Pb)	mg/kg	10	64	ND	ND	74
Mercury (Hg)	mg/kg	10	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	10	ND	ND	ND	ND

Test sample		MDL	No.29	No.30	No.31	No.32
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND
Lead (Pb)	mg/kg	10	86	730	10	61
Mercury (Hg)	mg/kg	10	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	10	ND	ND	ND	ND

Test sample		MDL	No.34	No.36
Cadmium (Cd)	mg/kg	10	ND	ND
Lead (Pb)	mg/kg	10	59	160
Mercury (Hg)	mg/kg	10	ND	ND
Chromium VI (Cr VI)	mg/kg	10	ND	ND

Notes:
- 10 mg/kg = 0.001% by weight
- ND = Not detected
- MDL = Method Detection Limit

Our Reference No.: Z06804480-1

3. Polybrominated Biphenyls+Polybrominated Diphenyl Ethers

Test method : PBB/PBDE - according to EPA8082A; determination with GC/MS

Proposed limit by Technical Committee (TAC) : PBB: 0.1% = 1000mg/kg PBDE: 0.1% = 1000mg/kg

given as % by weight in homogenous materials

Test sample		MDL	No. 37	No. 38	No. 39	No. 40
Polybrominated Biphenyls (PBB)	mg/kg	10	ND	ND	ND	ND
Polybrominated Diphenyl Ethers (PBDE)	mg/kg	10	ND	ND	ND	ND

Test sample		MDL	No. 41	No. 42	No. 43	No. 44
Polybrominated Biphenyls (PBB)	mg/kg	10	ND	ND	ND	ND
Polybrominated Diphenyl Ethers (PBDE)	mg/kg	10	ND	ND	ND	ND

Test sample		MDL	No. 45	No. 46	No. 47	No. 48
Polybrominated Biphenyls (PBB)	mg/kg	10	ND	ND	ND	ND
Polybrominated Diphenyl Ethers (PBDE)	mg/kg	10	ND	ND	ND	ND

Test sample		MDL	No. 49	No. 50
Polybrominated Biphenyls (PBB)	mg/kg	10	ND	ND
Polybrominated Diphenyl Ethers (PBDE)	mg/kg	10	ND	ND

Notes:
- 10 mg/kg = 0.001% by weight
- ND = Not detected
- MDL = Method Detection Limit
- Analysis of PBB/PBDE includes the following compounds (BZ#):

Polybrominated Biphenyls (PBB)

BB-003	4-bromobiphenyl
BB-004	2,2'-dibromobiphenyl
BB-018	2,2',5-tribromobiphenyl
BB-077	3,3',4,4'-tetrabromobiphenyl
BB-101	2,2',4,5,5'-pentabromobiphenyl
BB-153	2,2',4,4',5,5'-hexabromobiphenyl
BB-209	2,2',3,3',4,4',5,5'6,6'-decabromobiphenyl

Polybrominated Diphenyl Ethers (PBDE)

BDE-003	4-bromodiphenyl ether
BDE-004	2,2'-dibromodiphenyl ether
BDE-028	2,4,4'-tribromodiphenyl ether
BDE-047	2,2',4,4'-tetrabromodiphenyl ether
BDE-085	2,2',3,4,4'-pentabromodiphenyl ether
BDE-099	2,2',4,4',5-pentadiphenyl ether
BDE-100	2,2',4,4',6-pentabromodiphenyl ether
BDE-153	2,2',4,4',5,5'-hexabromodiphenyl ether
BDE-154	2,2',4,4',5,6'-hexabromodiphenyl ether
BDE-180	2,2',3,4,4',5,5'-heptabromodiphenyl ether
BDE-196	2,2',3,3',4,4',5,6'-octabromodiphenyl ether
BDE-197	2,2',3,3',4,4',6,6'-octabromodiphenyl ether
BDE-203	2,2',3,4,4',5,5',6-octabromodiphenyl ether
BDE-206	2,2',3,3',4,4',5,5',6-nonabromodiphenyl ether
BDE-209	2,2',3,3',4,4',5,5',6,6'-decabromodiphenyl ether

Our Reference No.: Z06804480-1

3. Polybrominated Biphenyls+Polybrominated Diphenyl Ethers

Test method : PBB/PBDE - according to EPA8082A; determination with GC/MS

Proposed limit by Technical Committee (TAC) : PBB: 0.1% = 1000mg/kg PBDE: 0.1% = 1000mg/kg

given as % by weight in homogenous materials

Test sample		MDL	No. 51
Polybrominated Biphenyls (PBB)	mg/kg	10	ND
Polybrominated Diphenyl Ethers (PBDE)	mg/kg	10	40
BDE209	mg/kg	10	40

Notes:
- 10 mg/kg = 0.001% by weight
- ND = Not detected
- MDL = Method Detection Limit
- Analysis of PBB/PBDE includes the following compounds (BZ#):

Polybrominated Biphenyls (PBB)

BB-003	4-bromobiphenyl
BB-004	2,2'-dibromobiphenyl
BB-018	2,2',5-tribromobiphenyl
BB-077	3,3',4,4'-tetrabromobiphenyl
BB-101	2,2',4,5,5'-pentabromobiphenyl
BB-153	2,2',4,4',5,5'-hexabromobiphenyl
BB-209	2,2',3,3',4,4',5,5'6,6'-decabromobiphenyl

Polybrominated Diphenyl Ethers (PBDE)

BDE-003	4-bromodiphenyl ether
BDE-004	2,2'-dibromodiphenyl ether
BDE-028	2,4,4'-tribromodiphenyl ether
BDE-047	2,2',4,4'-tetrabromodiphenyl ether
BDE-085	2,2',3,4,4'-pentabromodiphenyl ether
BDE-099	2,2',4,4',5-pentadiphenyl ether
BDE-100	2,2',4,4',6-pentabromodiphenyl ether
BDE-153	2,2',4,4',5,5'-hexabromodiphenyl ether
BDE-154	2,2',4,4',5,6'-hexabromodiphenyl ether
BDE-180	2,2',3,4,4',5,5'-heptabromodiphenyl ether
BDE-196	2,2',3,3',4,4',5,6'-octabromodiphenyl ether
BDE-197	2,2',3,3',4,4',6,6'-octabromodiphenyl ether
BDE-203	2,2',3,4,4',5,5',6-octabromodiphenyl ether
BDE-206	2,2',3,3',4,4',5,5',6-nonabromodiphenyl ether
BDE-209	2,2',3,3',4,4',5,5',6,6'-decabromodiphenyl ether

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