



Centre of Testing Service

TEST PROTOCOL

RoHS 2002/95/EC

Project no.:

CTSGZ061219-04022-C

CENTRE OF TESTING SERVICE

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**TEST REPORT**

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Applicant : FOSHAN PLAIN LIGHTING CO., LTD.
SHAXI DONGHE ROAD, HUANGQI, NANHAI, FOSHAN CITY, GUANGDONG
CHINA

Description of Samples : Product: ENERGY SAVING LAMP
Model no.: PSL-2U, PSL-3U, PSL-4U, PSL-5U, PSL-6U, PSL-8U, PSL-10U,
PSL-S, PLN/5U, PLN/6U, PLN/8U, PLN/10U
Brand name: /
Quantity submitted: 1 pc

Data Samples Received : Dec. 18, 2006

Date Tested : Dec. 18, 2006 to Jan. 17, 2007

Investigation Requested : Test for screening for elements (Lead, Mercury, Cadmium, Chromium and Bromine) as specified in the EU ROHS directive 2002/95/EC and 2005/618/EC – Restriction of the use of certain hazardous substances in electrical and electronic equipments.

Method used : X-Ray Fluorescence Spectrometry method in reference to IEC documents (draft). IEC 62321/ Ed. 1: -Procedures for the determination of levels of six regulated substances (Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated biphenyls and Polybrominated biphenyl Ether) in electrotechnical products.

Remarks : Please refer to the following page(s)



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1. Test results of all parts by EDXRF:

No.	Sample Description	Results				
		Pb	Cd	Hg	Cr	Br
1	Silvery metal sheet	P	P	P	P	/
2	Black glass	P	P	P	P	/
3	Silvery metal	P	P	P	P	/
4	Beige plastic base	P	P	P	P	X
5	White powder	P	P	P	P	P
6	Coppery metal wire	P	P	P	P	/
7	PCB board with green coating and copper foil	P	P	P	P	X
8	Silvery metal wire	P	P	P	P	/
9	Brown plastic jacket with white printing	X	P	P	P	P
10	Aluminium crust	P	P	P	P	/
11	Black rubber shim	P	P	P	P	P
12	Brown paper	P	P	P	P	P
13	Green body of CBB capacitance (630V 473K)	P	P	P	P	P
14	Green body of capacitance (3A332J)	P	P	P	P	P
15	Green body of capacitance (2A223J)	P	P	P	P	P
16	Green body of capacitance (630V 102J)	P	P	P	P	P
17	Black of body of diode	P	P	P	P	X
18	Silvery metal pin (FR107)	P	P	P	P	/

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No.	Sample Description	Results				
		Pb	Cd	Hg	Cr	Br
19	Black body of IC (W/13003)	P	P	P	P	X
20	Silvery metal pin (w/13003)	P	P	P	P	/
21	Silvery metal pin (DB3)	P	P	P	P	/
22	Silvery metal pin	P	P	P	P	/
23	Silvery metal set	P	P	P	P	/
24	Silvery metal cap	P	P	P	P	/
25	Yellow adhesive tape	P	P	P	P	P
26	Black magnetism frame	P	P	P	P	P
27	Black carbon	P	P	P	P	P
28	Silvery metal pin (L2)	P	P	P	P	/
29	Blue plastic cable	P	P	P	P	P
30	Brown plastic cable	P	P	P	P	P
31	Cupreous wire	P	P	P	P	/
32	Silvery metal wire	P	P	P	P	/

Note: P = Below Limit (Pass)
 F = Over Limit (Fail)
 X = Inconclusive

Remarks:

- (1) Results are obtained by EDXRF for primary screening, and further chemical testing is recommended to be performed, if the concentration exceeds the below warning value according to IEC/TCD 111 (Draft).

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Element	Polymer Materials	Metallic Materials	Composite Materials
Pb	$P \leq 500 < X < 1300 \leq F$	$P \leq 500 < X < 1300 \leq F$	$P \leq 500 < X < 1300 \leq F$
Cd	$P \leq 50 < X < 130 \leq F$	$P \leq 50 < X < 130 \leq F$	$X < 130 \leq F$
Hg	$P \leq 500 < X < 1300 \leq F$	$P \leq 500 < X < 1300 \leq F$	$P \leq 500 < X < 1300 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 250 < X$	/	$P \leq 250 < X$

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The test results only apply to the materials requested by customer.

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2. Test results by chemical analysis on EDXRF fail & inconclusive items:

Test items	Results (Unit: mg/kg)					RoHS Limit
	<u>No.4</u>	<u>No.7</u>	<u>No.9</u>	<u>No.17</u>	<u>No.19</u>	
Lead (Pb)	/	/	26	/	/	1000
Cadmium (Cd)	/	/	/	/	/	100
Mercury (Hg)	/	/	/	/	/	1000
Hexavalent Chromium (CrVI)	/	/	/	/	/	1000
Polybrominated Biphenyls (PBBs)	N.D.	N.D.	/	N.D.	N.D.	1000
Polybrominated Diphenylether (PBDEs)	N.D.	N.D.	/	N.D.	N.D.	1000

Note: N.D. = not detected (less than M.D.L)

Remark:

(1) RoHS limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC.

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Attachment:

No.	Parts Name	Subsection items 1	Subsection items 2	Materiels
1	灯座部分	银色圆形金属接线片		
2		黑色玻璃		
3		银色螺旋金属灯头		
4		米白色塑料灯座		
5	白色胶泥粉			
6	灯管部分	杜镁丝		
7	PCB 板部分	PCB 板		
8		焊锡		
9		电解电容 (GRP/10 μ F 220V)	外皮	
10			铝壳	
11			封口胶垫	
12		电解电容 (GRP/10 μ F 230V)	内芯	
13		绿色 CBB 电容 (630V 473K)	本体	
14		绿色电容 (3A332J)	本体	
15		绿色电容 (2A223J)	本体	
16		绿色电容 (630V 102J)	本体	
17		二极管 (FR107)	本体	
18			引脚	
19		IC (W/13003)	本体	
20			引脚	
21	PCB 板部分	蓝色二极管 (DB3)	引脚	

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No.	Parts Name	Subsection items 1	Subsection items 2	Materiels
22		保险管	引脚	
23			银色金属套	
24			银色金属帽	
25		电感 L2	黄色粘胶带	
26			磁框	
27			黑色绕线架	
28			引脚	
29		蓝色线皮		
30	导线	棕色线皮		
31		铜线芯		
32		焊锡		

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3. Tests report combine**Test report**

Report No	Issue date
SGS GZ0601008061/CHEM	2006.02.09
SGS GZSCR051299036/LP	2005.12.19
SGS GZSCR051299035/LP	2005.12.19
SGS GZSCR0512107328/LP	2006.01.05
SGS GZ0601004391/CHEM	2006.01.19
SGS SH6013328/CHEM	2006.02.23
SGS GZSCR051299037/LP	2005.12.19
SGS GZ0602015002/CHEM	2006.02.22
SGS GZ0604051566/CHEM	2006.04.19
SGS SH6013521/CHEM	2006.02.23
SGS SH6013323/CHEM	2006.02.23
SGS SH6013326/CHEM	2006.02.23
SGS SH6013321/CHEM	2006.02.23
SGS TJTC 0610901/CHEM	2006.08.28
ITS SZHJ07014002	2006.08.28
ITS SZHJ07013402	2006.08.30
ITS SZHJ07014001	2006.08.28
ITS SZHJ07013401	2006.08.30
ITS SZHJ07014003	2006.08.28
SGS SH6013029/CHEM	2006.02.16
ITS SZHJ060618	2005.07.10

Conclusion: Based on the reports submitted by clients, we outline the test data as following

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Survey part

Part name No.1	电感, 变压器 INDUCTANCE, TRANSFORMER
Model:	/
Vendor:	佛山市南海区志通电子有限公司
Report no:	SGS GZ0601008061/CHEM
Part name No.2	METAL DXIDE FILM FIXED RESISTORS
Model:	ROC, ROD, ROE, ROF, ROG
Vendor:	FOSHAN KANGYI ELECTRONICS LIMITED
Report no:	SGS GZSCR051299036/LP
Part name No.3	PRECISION METAL FILM FIXED RESISTORS
Model:	RMB, RMC, RMD, RME, RMF
Vendor:	FOSHAN KANGYI ELECTRONICS LIMITED
Report no:	SGS GZSCR051299035/LP
Part name No.4	保险管
Model:	/
Vendor:	DONGGUAN DONGCHENG ANDU ELECTRONICS COMPONENT FACTORY
Report no:	SGS GZSCR0512107328/LP
Part name No.5	铝电解电容器
Model:	/
Vendor:	GUANGDONG ZHAOQING HONGYI ELECTRONICS CO., LTD
Report no:	SGS GZ0601004391/CHEM
Part name No.6	Solder
Model:	Solder
Vendor:	YANGZHOU YANGJIE ELECTRONIC CO., LTD
Report no:	SGS SH6013328/CHEM
Part name No.7	CARBON FILM FIXED RESISTORS
Model:	RCB, RCC, RCD, RCE, RCF, RCG
Vendor:	FOSHAN KANGYI ELECTRONICS LIMITED
Report no:	SGS GZSCR051299037/LP
Part name No.8	环保型环氧 A/B
Model:	/
Vendor:	REFER TO ORIGINAL REPORT
Report no:	SGS GZ0602015002/CHEM
Part name No.9	铝电解电容器-电解液, 透明塑料胶带
Model:	/
Vendor:	GUANG DONG ZHOU QING HONG YI ELECTRONICS CO., LTD
Report no:	SGS GZ0604051566/CHEM
Part name No.10	Molded Plastic

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Model: /
Vendor: YANGZHOU YANGJIE ELECTRONIC CO., LTD
Report no: SGS SH6013521/CHEM

Part name No.11 Dice
Model: Dice
Vendor: YANGZHOU YANGJIE ELECTRONIC CO., LTD
Report no: SGS SH6013323/CHEM

Part name No.12 Zn Case
Model: Zn Case
Vendor: YANGZHOU YANGJIE ELECTRONIC CO., LTD
Report no: SGS SH6013326/CHEM

Part name No.13 Ink
Model: Ink
Vendor: YANGZHOU YANGJIE ELECTRONIC CO., LTD
Report no: SGS SH6013321/CHEM

Part name No.14 芯柱
Model: L.M.S.
Vendor: 保定蓝波节能灯具有限公司
Report no: SGS TJTC 0610901/CHEM

Part name No.15 白色粉末 (稀土三基色红粉)
Model: /
Vendor: 湖南信多利新材料有限公司
Report no: ITS SZHJ07014002

Part name No.16 WHITE POWDER [YTTIUM EUROPIUM OXIDE (YEO) RED TRIPHOSPHOR]
Model: /
Vendor: HUNAN XING DUO LI NEW MATERIAL CO, LTD
Report no: ITS SZHJ07013402

Part name No.17 白色粉末 (稀土三基色双峰蓝粉)
Model: /
Vendor: 湖南信多利新材料有限公司
Report no: ITS SZHJ07014001

Part name No.18 WHITE POWDER (BARIUM MANGNESIUM ALUMINATE: EU, MN).
Model: /
Vendor: HUNAN XING DUO LI NEW MATERIAL CO, LTD
Report no: ITS SZHJ07013401

Part name No.19 白色粉末 (稀土三基色绿粉)
Model: /
Vendor: 湖南信多利新材料有限公司

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Report no:	ITS SZHJ07014003
Part name No.20	电子粉架
Model:	/
Vendor:	南京恒松电子材料有限公司
Report no:	SGS SH6013029/CHEM
Part name No.21	灰色金属 (灯丝/FILAMENT)
Model:	/
Vendor:	苏州市迪盛工贸有限公司
Report no:	ITS SZHJ060618

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Test Data Summary

Item		Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (CrVI)	PBBs	PBDEs
Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acceptable Limit		1000	100	1000	1000	1000	1000
PartNo.1 电感, 变压器 INDUCTANCE, TRANSFORMER	深灰色磁芯	13	N.D.	N.D.	N.D.	N.D.	N.D.
	黑色塑料	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	铜色金属线	81	N.D.	N.D.	N.D.	N.D.	N.D.
	银色金属棒	126	N.D.	N.D.	N.D.	N.A.	N.A.
	黄色粘性塑胶带	N.D.	N.D.	N.D.	N.D.	N.D.	53
PartNo.2 METAL OXIDE FILM FIXED RESISTORS	Gray body w/ multi-color printing (mixed)	17	N.D.	N.D.	N.D.	N.D.	N.D.
	Silvery metal pin	292	N.D.	N.D.	N.D.	N.A.	N.A.
PartNo.3 PRECISION METAL FILM FIXED RESISTORS	Blue body w/ multi-color printing (mixed)	32	N.D.	N.D.	N.D.	N.D.	N.D.
	Silvery metal pin	438	N.D.	N.D.	N.D.	N.A.	N.A.
PartNo.4 保险管	White thread	18	N.D.	N.D.	N.D.	N.D.	N.D.
	Silvery metal wire (inner white wire)	8	N.D.	N.D.	N.D.	N.A.	N.A.
	Silvery plated metal cap	4	N.D.	N.D.	N.D.	N.A.	N.A.
	Transparent glass tube	22	N.D.	N.D.	N.D.	N.A.	N.A.
	White ceramic	68	N.D.	N.D.	N.D.	N.A.	N.A.
	Silvery metal wire	19	N.D.	N.D.	N.D.	N.A.	N.A.

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Item		Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (CrVI)	PBBs	PBDEs
Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acceptable Limit		1000	100	1000	1000	1000	1000
PartNo.5 铝电解电容器	Black plastic (胶塞)	12	N.D.	N.D.	N.D.	N.D.	N.D.
	Lt-brown plastic tube w/ black printing (套管)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Lt-yellow tape (电解纸)	14	N.D.	N.D.	N.D.	N.D.	N.D.
	Silvery metal (铝壳)	N.D.	N.D.	N.D.	N.D.	N.A.	N.A.
	Silvery metal foil (正 箔)+Silvery metal foil (负 箔)	4	N.D.	N.D.	N.D.	N.A.	N.A.
	Silvery metal pin (15137+30)+ Silvery metal pin (15137+35) (导 针)	87	N.D.	N.D.	N.D.	N.A.	N.A.
PartNo.6 Solder	Silvery metal sheet	186	N.D.	N.D.	N.D.	N.A.	N.A.
PartNo.7 CARBON FILM FIXED RESISTORS	Brown body w/ multi- color printing (mixed)	27	N.D.	N.D.	N.D.	N.D.	N.D.
	Silvery metal pin	240	N.D.	N.D.	N.D.	N.A.	N.A.
PartNo.8 环保型环氧 A/B	Green plastic sheet	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PartNo.9 铝电解电容器- 电解液, 透明 塑料胶带	Transparent adhesive plastic tape	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Brown liquid	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PartNo.10 Molded Plastic	Black plastic	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

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Item		Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (CrVI)	PBBs	PBDEs
Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acceptable Limit		1000	100	1000	1000	1000	1000
PartNo.11 Dice	Silvery-grey solid sheet	N.D.	N.D.	N.D.	N.D.	N.A.	N.A.
PartNo.12 Zn Case	Silvery metal	56	8	N.D.	N.D.	N.A.	N.A.
PartNo.13 Ink	Black ink	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PartNo.14 芯柱	透明玻璃管(金属丝未检测)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PartNo.15	白色粉末 (稀土三基色红粉)	N.D. (<2)	N.D. (<2)	N.D. (<2)	N.D. (<1)	N.A.	N.A.
PartNo.16	WHITE POWDER [YTTIUM EUROPIUNT OXIDE (YEO) RED TRIPHOSPHOR]	N.D. (<2)	N.D. (<2)	N.D. (<2)	N.D. (<1)	N.A.	N.A.
PartNo.17	白色粉末 (稀土三基色双峰蓝粉)	N.D. (<2)	N.D. (<2)	N.D. (<2)	N.D. (<1)	N.A.	N.A.
PartNo.18	WHITE POWDER (BARIUM MANGNESIUM ALUMINUTE: EU, MN)	N.D. (<2)	N.D. (<2)	N.D. (<2)	N.D. (<1)	N.A.	N.A.
PartNo.19	白色粉末 (稀土三基色绿粉)	N.D. (<2)	N.D. (<2)	N.D. (<2)	N.D. (<1)	N.A.	N.A.
PartNo.20 电子粉架	灰白色液体	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PartNo.21	灰色金属 (灯丝 /FILAMENT)	N.D. (<2)	N.D. (<2)	N.D. (<2)	N.D. (<2)	N.A.	N.A.

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TEST REPORT

REPORT NO. : CTSGZ061219-04022-C
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NOTE: (1) N.D.=Not detected (<MDL)
(2) N.A.=Not applicable
(3) N.C.=Not conducted

Disclaim:

- 1.The detection limit of other labs may be different from that of CTS.
- 2.CTS take no responsibility for any mistakes caused by inaccurate and/or invalid information submitted by the applicant.

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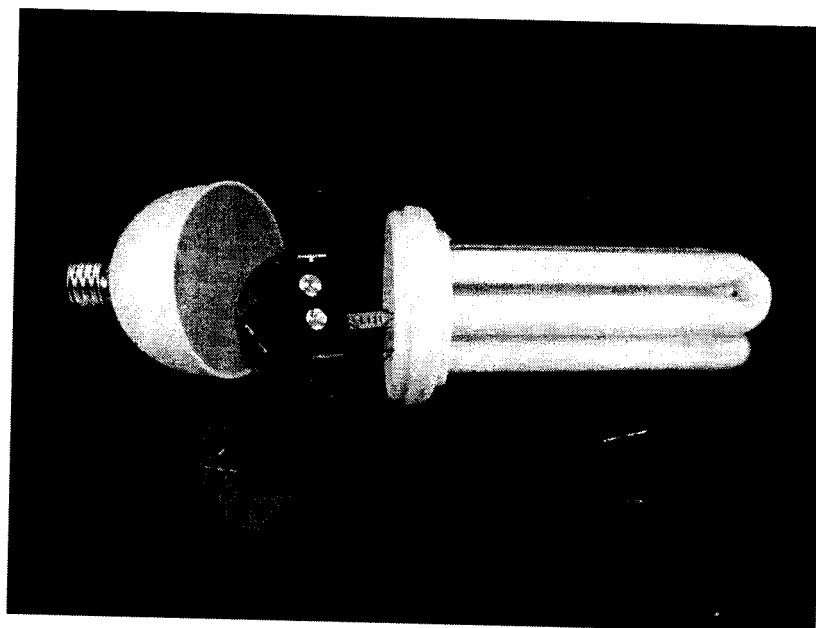
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TEST REPORT

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4 Sample reference photo



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TEST REPORT

REPORT NO. : CTS02051219-04022-C
 DATE : Jan. 17, 2007
 PAGE : 1 of 15

Applicant FOSHAN FLAIN LIGHTING CO., LTD.
 SHANI DONGHE ROAD, HUANGQI, NANHAI, FOSHAN CITY, GUANGDONG
 CHINA

Description of Samples Product: ENERGY SAVING LAMP
 Model no.: PSL-2U, PSL-3U, PSL-4U, PSL-5U, PSL-6U, PSL-8U, PSL-10U,
 PSL-S, FLN3U, FLN6U, FLN8U, FLN10U
 Brand name:
 Quantity submitted: 1 pc

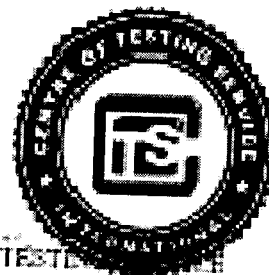
Date Samples Received Dec. 18, 2006

Date Tested Dec. 18, 2006 to Jan. 17, 2007

Investigation Requested Test for screening for elements (Lead, Mercury, Cadmium, Chromium and
 Bromine) as specified in the EU RoHS directive 2002/95/EC and 2005/618/EC -
 Restriction of the use of certain hazardous substances in electrical and electronic
 equipments

Method used X-Ray Fluorescence Spectrometry method in reference to IEC documents (2nd ed.)
 IEC 62321/ Ed. 1 - Procedures for the determination of levels of six regulated
 substances (Lead, Mercury, Cadmium, Hexavalent Chromium, Polychlorinated
 biphenyls and Polybrominated biphenyl Ether) in electrotechnical products

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Test Report No. CTS02051219-04022-C

**TEST REPORT**

REPORT NO. : CTS02051219-04022-C
 DATE : Jan. 17, 2007
 PAGE : 1 of 15

Applicant : FOSHAN FLAIN LIGHTING CO., LTD.
 SHAN DONGHE ROAD, HUANGQI, NANHAI, FOSHAN CITY, GUANGDONG
 CHINA

Description of Samples : Product: ENERGY SAVING LAMP
 Model no.: PSL-1U, PSL-3U, PSL-4U, PSL-5U, PSL-6U, PSL-8U, PSL-10U
 PSL-3, PLN3U, PLN6U, PLN8U, PLN10U
 Brand name:
 Quantity submitted: 1 pc

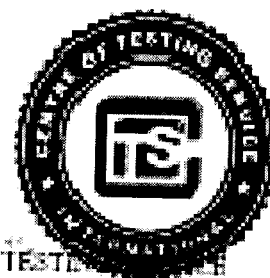
Date Samples Received : Dec. 18, 2006

Date Tested : Dec. 18, 2006 to Jan. 17, 2007

Investigation Requested : Test for screening for elements (Lead, Mercury, Cadmium, Chromium and
 Bromine) as specified in the EU ROHS directive 2002/95/EC and 2005/618/EC -
 Restriction of the use of certain hazardous substances in electrical and electronic
 equipments

Method used : X-Ray Fluorescence Spectrometry method in reference to IEC documents (2nd)
 IEC 62321/ Ed. 1 - Procedures for the determination of levels of six regulated
 substances (Lead, Mercury, Cadmium, Hexavalent Chromium, Polychlorinated
 biphenyls and Polybrominated biphenyl Ether) in electrotechnical products

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