		Report	
Applicant:	D.O BRASIL IND.COM.D		
Address:	RUA DAS OITICICAS, 77	SAO PAULO_SP BRAZIL	
-	nitted sample(s) said to be:		
Sample Name:	HANDBANK ECO		
Model:	HANDBANK ECO		
Sample Received:	2015.04.13		
Testing Period:	2015.04.13—2015.04.23		
Test Requested:		equirements, Split the sam	ple and determine the Pb,
	Cd, Hg, Cr(VI), PBBs & PB	DEs content of the parts.	
Test Method:	1. Sample prepared with	reference to IEC 62321-2:2	013 Determination of
	certain substances in e	electrotechnical products - P	art 2: Disassembly,
	disjunction and mecha	nical sample preparation	
	2. Sample Screening test	ing with reference to IEC 62	2321-3-1:2013
	Determination of certai	n substances in electrotech	nical products - Part 3-1:
	Screening - Lead, mer	cury, cadmium, total chromi	um and total bromine using
	X-ray fluorescence spe	ectrometry.	
	3. Wet Chemical Test Me	thod	
	a. Determination of Le	ad ,Cadmium by ICP-OES	with reference to IEC
	62321-5:2013		
	b. Determination of M	ercury by ICP-OES with refe	erence to IEC
	62321-4:2013		
	c. Determination of He	exavalent Chromium by Spo	ot test or UV-Vis Method
	with reference to IEC	62321:2008	
	d. Determination of Pl	3Bs and PBDEs by GC-MS	with reference to IEC
	62321:2008		
Test Result(s):	Please refer to the followin	g page(s).	
Test Conclusion:	Based on the analysis on t	he submitted samples, the t	test results comply with the
	RoHS Directive 2011/65/EU	J (RoHS 2.0) and its subsec	quent amendments.
Remark:	Only selected materials v	vere tested as per client's	requirement.
	ahua	$\neg$	LING TES
Tested by:	ken mar	Inspected by:	La contraction
	ken 2huo Jim Shong		
Approved by:	Am my	Date:2015.0	4.23
	echnical Manager		



## Test Report

Test Result(s):

1 bl	White paper label with lack printing Black soft plastic	Pb Cd Hg Cr(VI) PBBs PBDEs Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL BL BL BL BL		Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 17, 2015 Apr. 17, 2015
1 bl	label with lack printing Black soft	Hg Cr(VI) PBBs PBDEs Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL BL BL BL		Comply Comply Comply Comply Comply Comply Comply	
1 bl	label with lack printing Black soft	Cr(VI) PBBs PBDEs Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL BL	     	Comply Comply Comply Comply Comply Comply Comply	
2	lack printing	PBBs PBDEs Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	 	Comply Comply Comply Comply Comply Comply	
2	Black soft	PBDEs Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL		Comply Comply Comply Comply Comply	Apr. 17, 2015
2		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL		Comply Comply Comply Comply	Apr. 17, 2015
2		Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL		Comply Comply Comply	Apr. 17, 2015
2		Hg Cr(VI) PBBs PBDEs	BL BL BL		Comply Comply	Apr. 17, 2015
2		Cr(VI) PBBs PBDEs	BL BL		Comply	Apr. 17, 2015
s	plastic	PBBs PBDEs	BL			Apr. 17, 2015
	<u>č</u> )	PBDEs			Comply	
S	$\overline{\mathbf{S}}$		BI			
, s	6)		DE		Comply	
S		Pb	BL	<u>    (</u> , C`)	Comply	$(\mathbf{x}\mathbf{G})$
s		Cd	BL		Comply	
	Silvery color	Hg	BL		Comply	
3	3 metal	Cr(VI)	BL		Comply	Apr. 17, 2015
		PBBs			NA	
		PBDEs			NA	
/		Pb	BL		Comply	
	Ġ)	Cd	BL	<u>(</u> ()	Comply	
		Hg	BL		Comply	Apr. 17, 2015
4 B	Black plastic	Cr(VI)	BL		Comply	Apr. 23, 2015
)	(	PBBs	IN	N.D.	Comply	
	X	PBDEs	IN	N.D.	Comply	
		Pb	BL		Comply	
( An	~~\	Cd	BL	( )	Comply	
	Black soft	Hg	BL	<u>(</u> ())	Comply	(())
5	plastic	Cr(VI)	BL		Comply	Apr. 17, 2015
	-	PBBs	BL		Comply	
		PBDEs	BL		Comply	(
			C			1

# TCT通测检测 TESTING CENTRE TECHNOLOGY Test Report

metal pin         Cr(VI)         BL          Comply           PBBs          NA         PBDEs          NA           PBDEs          NA         PBDEs          NA           PBDEs          NA         NA         NA           PBDEs          NA         NA           PBDEs          Comply         Apr           Solder         Hg         BL          Comply           PBDEs          NA         PBDEs            PBDEs          NA         PBDEs            PBDEs          NA         PBDEs            Black outside         Hg         BL          Comply           PBDEs         BL          Comply         Apr           PBDEs         BL          Comply         Apr           PBDEs         BL          Comply         Apr           PBDEs         BL          Comply         Apr           PBDEs          NA         PBDE<	Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
6         Silvery color metal pin         Hg         BL          Comply Comply         Apr.           9         PBBs          NA         PBDEs          NA           7         PBDEs          NA         PBDEs          NA           7         Solder         Pb         BL          NA         PBDEs           7         Solder         Pb         BL          Comply         PBDE           7         Solder         Pb         BL          Comply         PA           7         Solder         Pb         BL          Comply         PA           7         Solder         Pb         BL          Comply         PA           7         Solder         PBDEs          NA         PB         PB          NA         PB           8         Black outside         Hg         BL          Comply         Apr.           9         Black outside         Hg         BL          Comply         Apr.           9         Silvery color         Hg         BL			Pb	BL		Comply	
6         metal pin         Cr(VI)         BL          Comply         Apr           PBDEs          NA         PBDEs          NA           PBDEs          NA          NA           PBDEs          NA          NA           PBDEs          NA          NA           PBDEs          Comply          Apr           Solder         Pb         BL          Comply           PBDEs          NA          NA           PBDEs          NA          NA           PBDEs          NA          NA           PBDEs         BL          NA            NA         Pb         BL          NA            PBDEs         BL          Comply                      <	1		Cd	BL		Comply	(
metal pin         Cr(VI)         BL          Comply           PBBs          NA         PBDEs          NA           PBDEs          NA         PBDEs          NA           PBDEs          NA         NA         NA           PBDEs          NA         NA           PBDEs          Comply         Apr           Solder         Hg         BL          Comply           PBDEs          NA         PBDEs            PBDEs          NA         PBDEs            PBDEs          NA         PBDEs            Black outside         Hg         BL          Comply           PBDEs         BL          Comply         Apr           PBDEs         BL          Comply         Apr           PBDEs         BL          Comply         Apr           PBDEs         BL          Comply         Apr           PBDEs          NA         PBDE<	6	Silvery color	Hg	BL	/	Comply	Apr. 17, 2015
PBDEsNAPbBLComplyCdBLComplyHgBLComplyHgBLComplyPBBsNAPBDEsNAPBDEsNAPBDEsNAPBDEsNAPBDEsComplyPBDEsBLPBDEsBLPBDEsBLPBDEsBLPBDEsBLPBDEsBLPBDEsBLPBDEsBLPBDEsBLPBDEsBLPBDEsBLPBDEsBLPBDEsBLPBDEsBLPBDEsNAPBDEsNAPBDEsNAPBDEsNAPBDEsNAPBDEsNAPBDEsNAPBDEsNAPBDEsNAPBDEsNAPBDEsNAPBDEBLPBDEBLPBDENAPBDEBLPBDEBLPBDENAPBDEPBDE <td>U</td> <td rowspan="3">metal pin</td> <td>Cr(VI)</td> <td>BL</td> <td></td> <td>Comply</td> <td>Αρι. 17, 2013</td>	U	metal pin	Cr(VI)	BL		Comply	Αρι. 17, 2013
Pb         BL          Comply           7         Solder         Gd         BL          Comply           Hg         BL          Comply         Apr           Solder         Hg         BL          Comply           PBBs          NA         Apr           PBDEs          NA         Apr           8         Black outside         Hg         BL          NA           8         Black outside         Hg         BL          Comply           9         Black outside         Hg         BL          Comply           PBDEs         BL          Comply         Apr           9         Black outside         Hg         BL          Comply           PBDEs         BL          Comply         Apr           9         Silvery color         Hg         BL          Comply           9         Silvery color         Hg         BL          NA           PBDEs          NA         Apr           PBDEs			PBBs			NA	
7         Solder         Cd         BL          Comply         Apr.           7         Solder         Hg         BL          Comply         Apr.           9         PBC         BL          NA         Apr.           9         Silvery color         Hg         BL          NA           9         Silvery plastic         Cr(VI)         BL          Comply           9         Black outside         Hg         BL          Comply           9         Black outside         Hg         BL          Comply           9         Black outside         Hg         BL          Comply           9         Pables         BL          Comply         Apr           9         Silvery color         Hg         BL          Comply           10         Metal wire         Cr(VI)         BL          NA           10         Silvery plastic         Hg         BL          NA           10         Silvery plastic         Hg         BL          NA			PBDEs		- <del>(</del> , (, ))	NA	
7         Solder         Hg         BL          Comply         Apr.           7         Solder         (C(V))         BL          (Comply)         Apr.           9         PBDes          NA         (Comply)         Apr.           8         PBDes          NA         (Comply)         (Comply)           8         Pb         BL          NA         (Comply)           8         Pb         BL          NA         (Comply)           9         Black outside         Hg         BL          Comply         (Comply)           9         Black outside         Hg         BL          Comply         (Comply)           9         Pables         BL          Comply         (Comply)         (Comply)           9         Silvery color         Hg         BL          Comply         (Comply)           9         Silvery color         Hg         BL          Comply         (Comply)           9         Pb         BL          NA         (Comply)         (Comply)           9 </td <td></td> <td></td> <td>Pb</td> <td>BL</td> <td></td> <td>Comply</td> <td></td>			Pb	BL		Comply	
7         Solder         Cr(VI)         BL          Comply         Apr. 4           PBBs           NA         PBDEs          NA           PBDEs           NA         PBDEs          NA           Black outside         Pb         BL          Comply         Apr. 4           Black outside         Hg         BL          Comply         Apr. 4           Pastic jacket         Cr(VI)         BL          Comply         Apr. 4           PBDEs          Comply         Apr. 4           PBDEs          NA         PBDE          NA           PBDEs          NA         PB         Apr. 4         Apr. 4			Cd	BL		Comply	
BL          Comply         Image: stress of the stres	-	Caldar	Hg	BL		Comply	Are 17 0015
Image: state of the state of	) (	Solder	Cr(VI)	BL		Comply	Apr. 17, 2015
8     Pb     BL      Comply       Black outside     Hg     BL      Comply       plastic jacket     Cr(VI)     BL      Comply       PBBs     BL      Comply     Apr.       PBDEs     BL      Comply       PBDEs      Comply     Apr.       PBDEs      NA     PBDEs       PBDEs      NA     Apr.       PBDEs      NA     Apr.       10     Silvery plastic     Hg     BL        Silvery plastic     Hg     BL      Comply       Initial     Cr(VI)     BL      Comply			PBBs			NA	
8         Black outside plastic jacket         Hg         BL          Comply Comply         Apr. 4           9         Black outside plastic jacket         Hg         BL          Comply         Apr. 4           9         PBStivery color metal wire core         Pb         BL          Comply         Apr. 4           9         Silvery color metal wire core         Pb         BL          Comply         Apr. 4           9         Silvery color metal wire core         Pb         BL          Comply         Apr. 4           9         Silvery color metal wire core         Pb         BL          Comply         Apr. 4           10         PBDEs          NA         PBDEs          NA           10         Silvery plastic film         Hg         BL          Comply         Apr. 4			PBDEs			NA	
8     Black outside plastic jacket     Hg     BL      Comply     Apr. 4       9     PBS     BL      Comply     Apr. 4       9     PBDEs     BL      Comply     Apr. 4       9     Silvery color metal wire core     Pb     BL      Comply     Apr. 4       9     Silvery color metal wire core     Pb     BL      Comply     Apr. 4       9     Silvery color metal wire core     Pb     BL      Comply     Apr. 4       9     Silvery color metal wire core     Pb     BL      Comply     Apr. 4       9     BL      NA     Apr. 4     Apr. 4       10     Silvery plastic film     Pb     BL      Comply		( <u>,</u> C)	Pb	BL	<u>    (</u> C`)	Comply	$(\mathcal{C})$
8     plastic jacket     Cr(VI)     BL      Comply     Apr. 4       9     PBDEs     BL      Comply     Comply       9     Silvery color metal wire core     Pb     BL      Comply       9     Silvery color metal wire core     Cr(VI)     BL      Comply       9     Silvery color metal wire core     Cr(VI)     BL      Comply       9     Silvery color for metal wire core     PBDEs      Comply       0     Silvery plastic film     Pb     BL      NA		Cd	BL		Comply		
plastic jacketCr(VI)BLComplyPBBsBLComplyPBDEsBLComplyPbBLComplySilvery colorHgBLMetal wire coreCr(VI)BLCorePBBsComplyPBDEsNAPBDEsNAPBDEsNASilvery plasticHgBLfilmCr(VI)BLComplyApr.	0	8	Hg	BL		Comply	Ann. 17, 0015
$\begin{array}{ c c c c c } \hline & & & & & & & & & & & & & & & & & & $	8		Cr(VI)	BL		Comply	Apr. 17, 2015
9PbBLComply9Silvery color metal wire corePbBLComply10Silvery plastic filmPbBLComply10Silvery plastic filmHgBLNA			PBBs	BL		Comply	
9Silvery color metal wire coreCdBLComply ComplyApr. 49Metal wire coreCr(VI)BLComply ComplyApr. 49PBBsNAApr. 49PBDEsNAApr. 49PBDEsNAApr. 410Silvery plastic filmHgBLComply ComplyApr. 410Silvery plastic filmHgBLComply ComplyApr. 4			PBDEs	BL		Comply	
Silvery color metal wire coreHgBLComply ComplyApr. 49metal wire coreCr(VI)BLComplyApr. 49PBBsNAApr. 49PBDEsNAApr. 49PbBLComplyApr. 410Silvery plastic filmHgBLComply10Cr(VI)BLComplyApr. 4			Pb	BL		Comply	
9metal wire coreHgBLComply ComplyApr. 49metal wire coreCr(VI)BLComplyApr. 49PBBsNAApr. 49PBDEsNAApr. 410Silvery plastic filmHgBLComply Cr(VI)Apr. 4			Cd	BL	<u>    (</u> C)	Comply	(2)
Core         Cr(VI)         BL          Comply           PBBs           NA           PBDEs          NA           PBDEs          NA           Cd         BL            Silvery plastic         Hg         BL            film         Cr(VI)         BL          Comply	0	-	Hg	BL		Comply	A == 47,0045
PBBs       NA       PBDEs      NA       Pb     BL        Cd     BL        Silvery plastic     Hg     BL        film     Cr(VI)     BL      Comply	9		Cr(VI)	BL		Comply	Apr. 17, 2015
10     Pb     BL      Comply       10     Silvery plastic film     Hg     BL      Comply       10     Cr(VI)     BL      Comply	core	core	PBBs			NA	(
10CdBLComply10Silvery plasticHgBLComplyfilmCr(VI)BLComply			PBDEs			NA	
10Silvery plasticHgBLComplyApr.10filmCr(VI)BLComplyApr.			Pb	BL		Comply	
10 film Cr(VI) BL Comply Apr.			Cd BL Comply	Comply			
film Cr(VI) BL Comply	10	Silvery plastic	Hg	BL	(<)	Comply	Arr 17 0015
PBBs BL Comply	10	film	Cr(VI)	BL		Comply	Apr. 17, 2015
			PBBs	BL		Comply	
PBDEs BL Comply			PBDEs	BL		Comply	(

# TCT通测检测 TESTING CENTRE TECHNOLOGY Test Report

Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date	
		Pb	BL		Comply		
<i>\</i>		Cd	BL		Comply	(	
11	White inside	Hg	BL	/	Comply	Apr. 17, 2015	
plastic jacket	Cr(VI)	BL		Comply	Αρι. 17, 2013		
		PBBs	BL		Comply		
	PBDEs G	BL	- <del>(</del> , (, ))	Comply	$(\mathbf{C})$		
		Pb	BL		Comply		
		Cd	BL		Comply		
12	Green inside	Hg	BL		Comply	1	
12	plastic jacket	Cr(VI)	BL		Comply	Apr. 17, 2015	
		PBBs	BL		Comply		
		PBDEs	BL		Comply		
Black inside 13 plastic jacket	(LG)	Pb	BL	-( <u>,</u> C`)	Comply	$(\mathcal{S})$	
		Cd	BL		Comply		
	Black inside	Hg	BL		Comply		
	plastic jacket	Cr(VI)	BL		Comply	Apr. 17, 2015	
		PBBs	BL		Comply		
		PBDEs	BL		Comply		
		Pb	BL		Comply		
14 Red inside plastic jacket			Cd	BL	$(\mathcal{O})$	Comply	
	Red inside	Hg	BL		Comply		
	plastic jacket	Cr(VI)	BL		Comply	Apr. 17, 2015	
		PBBs	BL		Comply	(	
		PBDEs	BL		Comply	\ \	
		Pb	BL		Comply		
		Cd	BL	🔨	Comply		
	Copper color	Hg	BL	<u>(</u> C)	Comply	$(\mathcal{S})$	
15	metal wire core	Cr(VI)	BL		Comply	Apr. 17, 2015	
		PBBs			NA		
		PBDEs			NA	(	
/	X	J	Č	/	Y North Contraction of the second sec	1	
	No.: TCT150413	0007				Page 4 of 30	

# TCT通测检测 TESTING CENTRE TECHNOLOGY Test Report

16		1		(mg/kg)	on RoHS	/ Resubmitted
16	(	Pb	BL		Comply	
16	Silvery plastic	Cd	BL		Comply	(
	label with	Hg	BL		Comply	Apr. 17, 2015
	black printing	Cr(VI)	BL		Comply	Apr. 17, 2013
black printing	PBBs	BL		Comply		
	$(\mathbf{x}\mathbf{G}^{\mathbf{Y}})$	PBDEs G	BL	- <del>(</del> , C)	Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
47	Transparent	Hg	BL		Comply	Are 17 0015
17	soft plastic 📉	Cr(VI)	BL		Comply	Apr. 17, 2015
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
	$(\mathbf{x}\mathbf{G}^{\mathbf{x}})$	Pb	BL	<u>    (</u> ,G`)	Comply	$(\mathcal{G})$
		Cd	BL		Comply	
Black plastic	Hg	BL		Comply		
18	18 shell	Cr(VI)	BL		Comply	Apr. 17, 2015
	1	PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
	$\langle \mathcal{G} \rangle$	Cd	BL	$(\mathcal{O})$	Comply	
	Silvery color	Hg	BL		Comply	
19	metal screw	Cr(VI)	BL		Comply	Apr. 17, 2015
	C	PBBs			NA	(
	PBDEs			NA		
		Pb	BL		Comply	
		Cd	BL		Comply	
(	Silvery color	Hg	BL	<u>(</u> C)	Comply	Apr. 17, 2015
20	metal stick	Cr(VI)	IN	Negative	Comply	Apr. 23, 2015
		PBBs			NA	
		PBDEs			NA	(
		J		/		J

		IE	est Re	eport		
Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
21	White plastic	Hg	BL		Comply	Apr. 17, 2015
21		Cr(VI)	BL		Comply	Apr. 17, 2015
		PBBs	BL		Comply	
	- A.	PBDEs	BL		Comply	
	$(\mathbf{x}\mathbf{G})$	Pb	BL	-( <u>,</u> C)	Comply	
		Cd	BL		Comply	
22	Silvery color	Hg	BL		Comply	Apr. 17, 2015
~~~	metal pin	Cr(VI)	BL		Comply	Apr. 17, 2015
	X	PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
	$(\langle \mathcal{O} \rangle)$	Cd	BL	-(,C)	Comply	
23	Red plastic	Hg	BL		Comply	Apr. 17, 2015
20	jacket	Cr(VI)	BL		Comply	Apr. 17, 2013
		PBBs	BL		Comply	(
	, in the second	PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
24	Copper color	Hg	BL		Comply	Apr. 17, 2015
27	metal pin	Cr(VI)	BL		Comply	Api.2013
		PBBs			NA	
	(	PBDEs	(		NA	(
		Pb	BL		Comply	
	Lt. Blue	Cd	BL		Comply	
25	electrolytic	Hg	BL		Comply	Apr 17 2015
20	capacitor with	Cr(VI)	BL		Comply	Apr. 17, 2015
	black printing	PBBs	BL		Comply	
		PBDEs	BL		Comply	

Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
	Silvery color	Hg	BL		Comply	
26	metal	Cr(VI)	BL		Comply	Apr. 17, 2015
	metar		PBBs NA			
		PBDEs			NA	
	$(\mathcal{G})$	Pb	BL	- (6)	Comply	$(\mathcal{C})$
		Cd	BL		Comply	
		Hg	BL		Comply	Apr. 17, 2015
27	Black plastic	Cr(VI)	BL		Comply	Apr. 23, 2015
		PBBs	IN	N.D.	Comply	
		PBDEs	IN	N.D.	Comply	
		Pb	BL		Comply	
	$(\mathbf{x}\mathbf{G})$	Cd	BL	<u>    (</u> C)	Comply	$(\mathbf{C})$
20	28 Silvery color	Hg	BL		Comply	Apr. 17, 2015
20	metal pin	Cr(VI)	BL		Comply	Apr. 17, 2015
	(	PBBs			NA	(
	X	PBDEs			NA	
		Pb	BL		Comply	
	Silvery	Cd	BL		Comply	
29	electrolytic	Hg	BL		Comply	Apr. 17, 2015
	capacitor	Cr(VI)	BL		Comply	
		PBBs	BL		Comply	
	(	PBDEs	BL		Comply	(
		Pb	BL		Comply	
		Cd	BL		Comply	
30	Brown plastic	Hg	BL		Comply	Apr. 17, 2015
		Cr(VI)	BL		Comply	
		PBBs	BL		Comply	
		PBDEs	BL		Comply	

				eport	<i>—</i>	
Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
	Black	Cd	BL		Comply	
31	electronic	Hg	BL		Comply	Apr. 17, 2015
	component 🔇	Cr(VI)	BL		Comply	Apr. 23, 2015
	(long)	PBBs	IN	N.D.	Comply	
		PBDEs	IN	N.D.	Comply	
	$(\mathbf{x}\mathbf{G})$	Pb	BL	- <del>(</del> ,C)	Comply	(()
	Black	Cd	BL		Comply	
32	electronic	Hg	BL		Comply	Apr. 17, 2015
32	component	Cr(VI)	BL		Comply	Apr. 17, 2015
	(ring)	PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
	$(\mathbf{C})$	Cd	BL	-( <u>,</u> C)	Comply	$(\mathcal{O})$
33	Green PCB	Hg	BL		Comply	Apr. 17, 2015
	Gleen FCB	Cr(VI)	BL		Comply	Apr. 23, 2015
		PBBs	IN	N.D.	Comply	(
	No.	PBDEs	IN	N.D.	Comply	· · · · · · · · · · · · · · · · · · ·
		Pb	BL		Comply	
		Cd	BL		Comply	
34	Metal with	Hg	BL		Comply	Apr. 17, 2015
04	black printing	Cr(VI)	IN	Negative	Comply	Apr. 23, 2015
		PBBs			NA	
	(	PBDEs			NA	(
		Pb	BL		Comply	
		Cd	BL		Comply	
35	White plastic	Hg	BL		Comply	Apr. 17, 2015
00	jacket	Cr(VI)	BL		Comply	
		PBBs	BL		Comply	
	-	PBDEs	BL		Comply	

Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb Cd	BL BL BL		Comply Comply	
36	Black plastic	Hg Cr(VI) PBBs	BL BL	)	Comply Comply Comply	Apr. 17, 2015
		PBDEs	BL		Comply	
	S	Pb Cd	BL BL		Comply Comply	
37	White plastic jacket	Hg Cr(VI)	BL BL		Comply Comply	Apr. 17, 2015
		PBBs PBDEs	BL BL		Comply Comply	N.
		Pb Cd	BL BL		Comply Comply	$(\mathcal{C})$
38	Red plastic jacket	Hg Cr(VI)	BL BL		Comply Comply	Apr. 17, 2015
		PBBs PBDEs	BL BL	)	Comply Comply	()
39	Black plastic	Pb Cd Hg	BL BL BL		Comply Comply Comply	Apr. 17, 2015
	jacket	Cr(VI) PBBs PBDEs	BL BL BL		Comply Comply Comply	Арг. 17, 2013
)		Pb Cd	BL BL		Comply	
40	Silvery color metal	Hg Cr(VI) PBBs	BL BL 		Comply Comply NA NA	Apr. 17, 2015

Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
41	Green PCB	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN IN	  N.D. N.D.	Comply Comply Comply Comply Comply Comply	Apr. 17, 2015 Apr. 23, 2015
42	Solder	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL 		Comply Comply Comply Comply NA NA	Apr. 17, 2015
43	Yellow LED	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL		Comply Comply Comply Comply Comply Comply	Apr. 17, 2015
44	Black soft plastic	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL		Comply Comply Comply Comply Comply Comply	Apr. 17, 2015
45	Black plastic	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL		Comply Comply Comply Comply Comply Comply	Apr. 17, 2015

Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
46	Black plastic jacket	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL		Comply Comply Comply Comply Comply Comply	Apr. 17, 2015
47	Transparent plastic	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL		Comply Comply Comply Comply Comply Comply	Apr. 17, 2015
48	Black plastic	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN IN	  N.D. N.D.	Comply Comply Comply Comply Comply Comply	Apr. 17, 2015 Apr. 23, 2015
49	Solder	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL 		Comply Comply Comply Comply NA NA	Apr. 17, 2015
50	Brown plastic jacket	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL		Comply Comply Comply Comply Comply Comply	Apr. 17, 2015

Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
51	Silvery color metal spring	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL IN 	  Negative 	Comply Comply Comply Comply NA NA	Apr. 17, 2015 Apr. 23, 2015
52	Black plastic	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL		Comply Comply Comply Comply Comply Comply	Apr. 17, 2015
53	Translucent soft plastic	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL		Comply Comply Comply Comply Comply Comply	Apr. 17, 2015
54	Metal sheet with black coating	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL IN 	  Negative 	Comply Comply Comply Comply NA NA	Apr. 17, 2015 Apr. 23, 2015
55	Black plastic	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL		Comply Comply Comply Comply Comply Comply	Apr. 17, 2015

Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
56	Silvery color metal	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL 		Comply Comply Comply Comply NA NA	Apr. 17, 2015
	(C)	Pb G	BL		Comply	
57	Silvery-white color metal	Cd Hg Cr(VI) PBBs PBDEs	BL BL IN 	 Negative 	Comply Comply Comply NA NA	Apr. 17, 2015 Apr. 23, 2015
58	Black plastic jacket	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL		Comply Comply Comply Comply Comply Comply	Apr. 17, 2015
59	Red plastic jacket	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL		Comply Comply Comply Comply Comply Comply	Apr. 17, 2015
60	White plastic jacket	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	   	Comply Comply Comply Comply Comply Comply Comply	Apr. 17, 2015

Part No.         Part Description         Restricted Substances         EDXRF (1)         Chemical Testing (2) (mg/kg)         Conclusion on RoHS         /Resub Da           61         Description         Substances         (1)         Testing (2) (mg/kg)         on RoHS         J           61         Gray plastic         Hg         BL          Comply         J           61         Gray plastic         Hg         BL          Comply         Apr. 17           61         Gray plastic         Hg         BL          Comply         Apr. 17           61         Gray plastic         Hg         BL          Comply         Apr. 17           62         Silvery         PBDEs         BL          Comply         Apr. 17           62         Silvery         Hg         BL          Comply         Apr. 17           63         Silvery         Hg         BL          Comply         Apr. 17           64         PBDEs         BL          Comply         Apr. 17           63         Pellow plastic         Cr(VI)         BL          Comply         Apr. 17				51 110	eport		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				EDXRF	Chemical Testing (2)		Data Submitted / Resubmitted Date
61Gray plastic jacketHgBLComply ComplyApr. 17 $61$ jacketCr(VI)BLComplyApr. 17 $PBBsBLComplyPBDEsBLComplyPBDEsBLComplyApr. 17Apr. 1762SilveryelectroniccomponentPbBLComply62SilveryelectroniccomponentHgBLComply62FBBsBLComplyApr. 1763Yellow plasticCdBLComply63Yellow plasticPbBLComply64Black plasticHgBLComply64Black plasticHgBLComply64Black plasticHgBLComply64PbBLComply64PbBLComply64PbBLComply64PbBLComply64PbBLComply64PasticHgBLComply7PbBLComply7PbBLComply7PbBLComply7PbBLComply7PbBLComply7$			Pb	BL		Comply	
61         jacket         Cr(VI)         BL          Comply         Apr. 17           PBBs         BL          Comply         Comply         PBDEs         BL          Comply           PBDEs         BL          Comply         Comply         PBDEs         BL          Comply           62         Pb         BL          Comply         Apr. 17           62         Silvery         Hg         BL          Comply           62         electronic         Cr(VI)         BL          Comply           63         PBDEs         BL          Comply         Apr. 17           63         Yellow plastic         Hg         BL          Comply           64         PBDEs         BL          Comply         Apr. 17           64         Black plastic         Hg         BL          Comply         Apr. 17           64         Black plastic         Hg         BL          Comply         Apr. 17           64         Black plastic         Hg         BL          Comply </td <td></td> <td></td> <td>Cd</td> <td>BL</td> <td></td> <td>Comply</td> <td></td>			Cd	BL		Comply	
	24	Gray plastic	Hg	BL		Comply	Apr. 17, 0015
		jacket	Cr(VI)	BL	)	Comply	Apr. 17, 2015
$\begin{array}{c c c c c c c } & Pb & BL & & Comply \\ \hline \\ Silvery & Hg & BL & & Comply \\ electronic & Cr(VI) & BL & & Comply \\ electronic & Cr(VI) & BL & & Comply \\ PBBs & BL & & Comply \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ Cd & BL & & Comply \\ \hline \\ Cd & BL & & Comply \\ \hline \\ Cd & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ \hline \\ PBDEs & BL & & Comply \\ \hline \\ $			PBBs	BL		Comply	
			PBDEs	BL		Comply	
$\begin{array}{ c c c c c c } \hline Silvery \\ electronic \\ component \end{array} \begin{array}{ c c c c } Hg \\ Hg \\ electronic \\ Cr(VI) \\ PBBs \\ BL \\ PBDEs \\ BL \\ PBDEs \\ BL \\ PBDEs \\ BL \\ PBDE \\ PDE $		$\langle \mathcal{O} \rangle$	Pb	BL	-(xC)	Comply	
62electronic componentHgBLComplyApr. 17 $63$ $Cr(VI)$ BLComply $PBBs$ BLComply $63$ Yellow plasticPbBLComply $Apr. 17$ $63$ Yellow plasticHgBLComply $Apr. 17$ $63$ Yellow plasticPbBLComply $Apr. 17$ $64$ Yellow plasticHgBLComply $Apr. 17$ $64$ BaseBLComply $Apr. 17$ $64$ Black plasticHgBLComply $Apr. 17$ $64$ Black plasticHgBLComply $Apr. 17$ $64$ PbBLComply $Apr. 17$ $64$ PbPbPbComply $64$ PbPbComply $Apr. 17$ $64$ PbPbPbComply $64$ PbPb<		Silven	Cd	BL		Comply	
$\begin{array}{ c c c c c } & Cr(VI) & BL & & Comply \\ \hline \begin{tabular}{ c c c } & PBBs & BL & & Comply \\ \hline \begin{tabular}{ c c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & Pb & BL & & Comply \\ \hline \begin{tabular}{ c c } & Hg & BL & & Comply \\ \hline \begin{tabular}{ c c } & Hg & BL & & Comply \\ \hline \begin{tabular}{ c c } & Hg & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \ee begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \ee begin{tabular}{ c c } & PBDEs & BL & & Comply \\ \hline \ee begin{tabular}{ c c } & PBDE & BL & & Comply \\ \hline \ee begin{tabular}{ c c } & PBDE & BL & & Comply \\ \hline \ee begin{tabular}{ c c } & PBDE & BL & & Comply \\ \hline \ee begin{tabular}{ c c } & PBDE & BL & & Comply \\ \hline \ee begin{tabular}{ c } & PBDE & BL & & Comply \\ \hline \ee begin{tabular}{ c } & PBDE & BL & & Comply \\ \hline \ee begin{tabular}{ c } & PBDE & BL & & Comply \\ \hline \ee begin{tabular}{ c } & PBDE & BL & & Comply \\ \hline \ee begin{tabular}{ c } & PBD & & Comply \\ \hline \ee begin{tabular}{ c } & PBD & & Comply \\ \hline \ee begin{tabular}{ c } & PB & & Comply \\ \hline \ee begin{tabular}{ c } & PB &$	22	-	Hg	BL		Comply	Apr 17 2015
$\begin{array}{ c c c c c } \hline PBBs & BL & & Comply \\ \hline PBDEs & BL & & Comply \\ \hline PBDEs & BL & & Comply \\ \hline PBDEs & BL & & Comply \\ \hline Cd & BL & & Comply \\ \hline Hg & BL & & Comply \\ \hline Hg & BL & & Comply \\ \hline PBBs & BL & & Comply \\ \hline PBDEs & BL & & Comply \\ \hline Cd & BL & & Comply \\ \hline Hg & BL & & Comply \\ \hline PBDEs & BL & & Comply \\ \hline \end{array}$	52		Cr(VI)	BL		Comply	Apr. 17, 2015
63PbBLComply Comply4Yellow plasticHgBLComplyHgBLComplyApr. 17Cr(VI)BLComplyApr. 17PBBsBLComplyPBDEsBlack plasticHgBLComplyG4Black plasticHgBLComplyPBDEsBLComplyApr. 17PbBLComplyApr. 17PbBLComplyApr. 17Fillow plasticHgBLComplyPbBLComplyApr. 17PbBLComplyApr. 17PbBLComplyApr. 17PbBLComplyApr. 17PbBLComplyApr. 17PbBLComplyApr. 17PbBLComplyApr. 17PbBLComplyApr. 17PbBLComplyApr. 17		component	PBBs	BL		Comply	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			PBDEs	BL		Comply	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			Pb	BL		Comply	
63     Yellow plastic     Cr(VI)     BL      Comply     Apr. 17       PBBs     BL      Comply     Comply       PBDEs     BL      Comply       PBDEs     BL      Comply       PBDEs     BL      Comply       Black plastic     Hg     BL        jacket     Cr(VI)     BL        PBDEs     BL      Comply       PBDEs     BL      Comply       Apr. 17     Max	(	Vellow plastic	Cd	BL	<u>-(</u> C)	Comply	
Cr(VI)BLComplyPBBsBLComplyPBDEsBLComplyPBDEsBLComplyCdBLComplyCdBLComplyBlack plasticHgBLjacketCr(VI)BLPBBsBLComplyPBDEsBLComplyPBDEsBLComplyPbBLComply	33		Hg	BL		Comply	Apr. 17, 2015
PBDEs     BL      Comply       64     Pb     BL      Comply       64     Pb     BL      Comply       Black plastic     Hg     BL      Comply       jacket     Hg     BL      Comply       PBBs     BL      Comply       PBDEs     BL      Comply       Pb     BL      Comply       PBDEs     BL      Comply       Pb     BL      Comply			Cr(VI)	BL		Comply	, p.: , 2010
64     Pb     BL      Comply       64     Black plastic jacket     Hg     BL      Comply       PBBs     BL      Comply     Apr. 17       PBDEs     BL      Comply       Pb     BL      Comply       PBDEs     BL      Comply       Pb     BL      Comply			PBBs	BL		Comply	(
64     Cd     BL      Comply       Black plastic     Hg     BL      Comply       jacket     Cr(VI)     BL      Comply       PBBs     BL      Comply       PBDEs     BL      Comply       Pb     BL      Comply		2	PBDEs	BL		Comply	
64     Black plastic jacket     Hg     BL      Comply       jacket     Cr(VI)     BL      Comply       PBBs     BL      Comply       PBDEs     BL      Comply       Pb     BL      Comply			Pb	BL		Comply	
64     1     C     Apr. 17       jacket     Cr(VI)     BL      Comply       PBBs     BL      Comply       PBDEs     BL      Comply       Pb     BL      Comply			Cd			Comply	
jacket Cr(VI) BL Comply PBBs BL Comply PBDEs BL Comply Pb BL Comply	64	Black plastic	Hg	BL		Comply	Apr. 17, 2015
PBDEs     BL      Comply       Pb     BL      Comply	-	jacket				Comply	,
Pb BL Comply						Comply	
		(					(
Cd BL Comply							
Blue plastic   Hg   BL    Comply     65   Apr. 17	65						Apr. 17, 2015
jacket Cr(VI) BL Comply		jacket					
PBBs BL Comply							
			PBDEs	BL		Comply	

### TCT通测检测 Testing Centre TecHNOLOGY Test Report

### Remark:

 (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr<sup>6+</sup>.

(b)Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr<sup>6+</sup>) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg)

Polymer	Metal	Composite Materials
BL≤(70-3σ) <x<(130+3σ) td="" ≤ol<=""><td>BL≤(70-3σ)<x<(130+3σ) ≤OL</x<(130+3σ) </td><td>LOD<x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)></td></x<(130+3σ)>	BL≤(70-3σ) <x<(130+3σ) ≤OL</x<(130+3σ) 	LOD <x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)>
BL≤(700-3σ) <x<(1300+3σ)< td=""><td>BL≤(700-3σ)<x<(1300+3σ)< td=""><td>BL≤(500-3σ)<x<(1500+3< td=""></x<(1500+3<></td></x<(1300+3σ)<></td></x<(1300+3σ)<>	BL≤(700-3σ) <x<(1300+3σ)< td=""><td>BL≤(500-3σ)<x<(1500+3< td=""></x<(1500+3<></td></x<(1300+3σ)<>	BL≤(500-3σ) <x<(1500+3< td=""></x<(1500+3<>
≤OL	≤OL	σ) ≤OL
BL≤(700-3σ) <x<(1300+3σ)< td=""><td>BL≤(700-3σ)<x<(1300+3σ)< td=""><td>BL≤(500-3σ)<x<(1500+3< td=""></x<(1500+3<></td></x<(1300+3σ)<></td></x<(1300+3σ)<>	BL≤(700-3σ) <x<(1300+3σ)< td=""><td>BL≤(500-3σ)<x<(1500+3< td=""></x<(1500+3<></td></x<(1300+3σ)<>	BL≤(500-3σ) <x<(1500+3< td=""></x<(1500+3<>
≤OL	≤OL	σ) ≤OL
BL≤(300-3σ)<Χ		BL≤(250-3σ)<Χ
BL≤(700-3σ)<Χ	BL≤(700-3σ)<Χ	BL≤(500-3σ)<Χ
	$BL \le (70-3\sigma) < X < (130+3\sigma) \le OL$ $BL \le (700-3\sigma) < X < (1300+3\sigma)$ $\le OL$ $BL \le (700-3\sigma) < X < (1300+3\sigma)$ $\le OL$ $BL \le (300-3\sigma) < X$	$\begin{array}{llllllllllllllllllllllllllllllllllll$

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection,

-- = Not Regulated, NA = Not Applicable.

(d) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) (a) mg/kg = ppm = 0.0001%, N.D.= Not Detected (<MDL), --- = Not Conducted.

(b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg
Units	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr<sup>6+</sup> for polymer & composite sample is 2 mg/kg.

(c) According to IEC 62321:2008, result on  $Cr^{6+}$  for metal sample is shown as Positive/Negative.

Positive = Presence of Cr<sup>6+</sup> coating, Negative = Absence of Cr<sup>6+</sup> coating.



Exemptions	
RoHS Directive 2011/65/EU ANNEX III	
Exemption Items	Expires Date
1, Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):	
1(a), For general lighting purposes < 30 W:3.5 mg	2,5 mg shall be used per burne after 31 December 2012
1(b), For general lighting purposes≥ 30 W and < 50W:3.5mg	
1(c), For general lighting purposes $\geq$ 50 W and < 150 W: 5 mg	
1(d), For general lighting purposes ≥ 150 W: 15 mg	
1(e), For general lighting purposes with circular or square structural shape and tube diameter $\leq$ 17 mm: 7 mg	
1(f), For special purposes: 5 mg	
2(a), Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):	
2(a)(1), Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 4 mg	
2(a)(2), Tri-band phosphor with normal lifetime and a tube diameter $\ge 9 \text{ mm}$ and $\le 17 \text{ mm}$ (e.g. T5): 3 mg	
$2(a)(3)$ , Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and $\leq 28$ mm (e.g. T8):3.5mg	
2(a)(4), Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 5 mg	Expires on 31 December 2012 3,5 mg may be used per lamp after 31 December 2012
2(a)(5), Tri-band phosphor with long lifetime (≥ 25 000 h): 5 mg	
2(b), Mercury in other fluorescent lamps not exceeding (per lamp):	
2(b)(2), Non-linear halophosphate lamps (all diameters): 15 mg	Expires on 13 April 2016
2(b)(3), Non-linear tri-band phosphor lamps with tube diameter > 17 r (e.g. T9):15mg	mm
2(b)(4), Lamps for other general lighting and special purposes (e.g. induction lamps):15mg	
<ol> <li>Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceed (per lamp):</li> </ol>	ling
3(a), Short length (≤500 mm):3.5mg	
3(b), Medium length (> 500 mm and ≤ 1 500 mm):5mg	
3(c), Long length (> 1 500 mm):13mg	
4(a), Mercury in other low pressure discharge lamps (per lamp):15mg	
4(b), Mercury in High Pressure Sodium (vapour) lamps for general lig purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60:	
4(b) -I, P ≤155 W:30mg	
$4(b) - II, 155 W < P \le 405 W:40mg$	
4(b) -III, P > 405 W:40mg	
4(c), Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):	
4(c)-I, P ≤ 155 W:25mg	
4(c)-II, 155 W < P ≤ 405 W:30mg	
4(c)-III, P > 405 W:40mg	$(\mathcal{G})$
4(d), Mercury in High Pressure Mercury (vapour) lamps (HPMV)	Expires on 13 April 2015



### **Test Report**

RoHS Directive 2011/65/EU ANNEX III	
Exemption Items	Expires Date
4(e), Mercury in metal halide lamps (MH)	•
4(f), Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	
5(a), Lead in glass of cathode ray tubes	
5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight	
6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight	
6(b), Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	
6(c), Copper alloy containing up to 4 % lead by weight	
7(a), Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)	
7(b), Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications	
7(c)-I, Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound	
7(c)-II, Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	
7(c)-III, Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
7(c)- $\mathrm{IV}$ , Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors	Expires on 21 July 2016
8(a), Cadmium and its compounds in one shot pellet type thermal cut-offs	Expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012
8(b), Cadmium and its compounds in electrical contacts	
9, Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution	
9(b), Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	
11(a), Lead used in C-press compliant pin connector systems	May be used in spare parts for EEE placed on the market before 24 September 2010
11(b), Lead used in other than C-press compliant pin connector systems	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
12, Lead as a coating material for the thermal conduction module C-ring	May be used in spare parts for EEE placed on the market before 24 September 2010



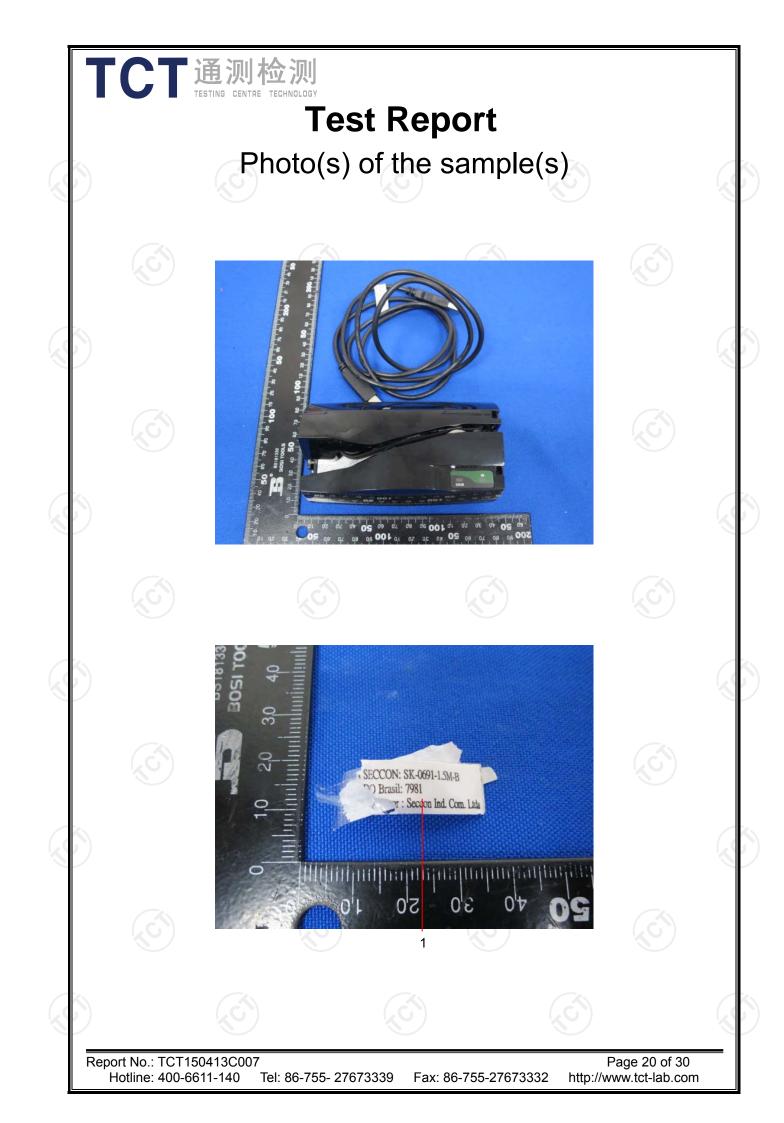
### Test Report

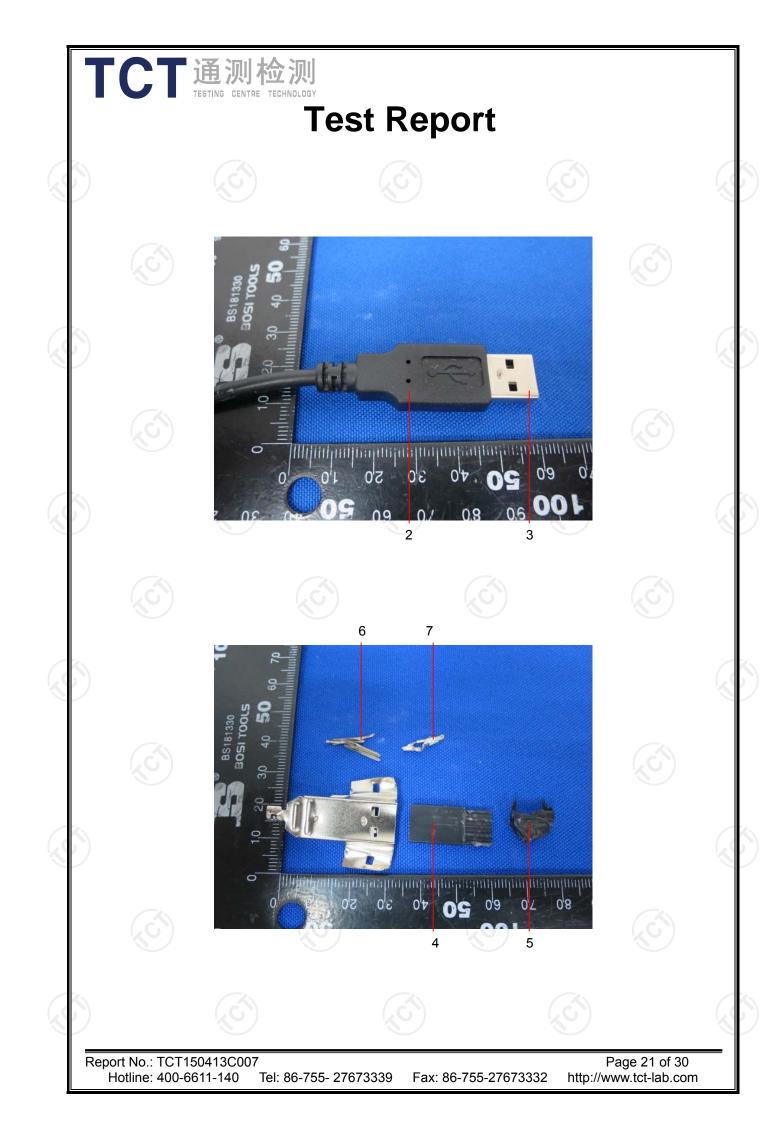
Exemptions RoHS Directive 2011/65/EU ANNEX III **Exemption Items** Expires Date 13(a), Lead in white glasses used for optical applications 13(b), Cadmium and lead in filter glasses and glasses used for reflectance standards 14, Lead in solders consisting of more than two elements for the Expires on 1 January 2011 and connection between the pins and the package of micropro-cessors with a after that date may be used in lead content of more than 80 % and less than 85 % by weight spare parts for EEE placed on the market before 1 January 2011 15. Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages 16, Lead in linear incandescent lamps with silicate coated tubes Expires on 1 September 2013 17, Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications 18(b), Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi<sub>2</sub>O<sub>5</sub> :Pb) 21, Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses 23, Lead in finishes of fine pitch components other than connectors with a May be used in spare parts for pitch of 0,65 mm and less EEE placed on the market before 24 September 2010 24, Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors 25, Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring 29, Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC (<sup>1</sup>) 30, Cadmium alloys as electrical/mechanical solder joints to elec-trical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more 31, Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting) 32, Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes 33, Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers 34, Lead in cermet-based trimmer potentiometer elements 37, Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body 38, Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide

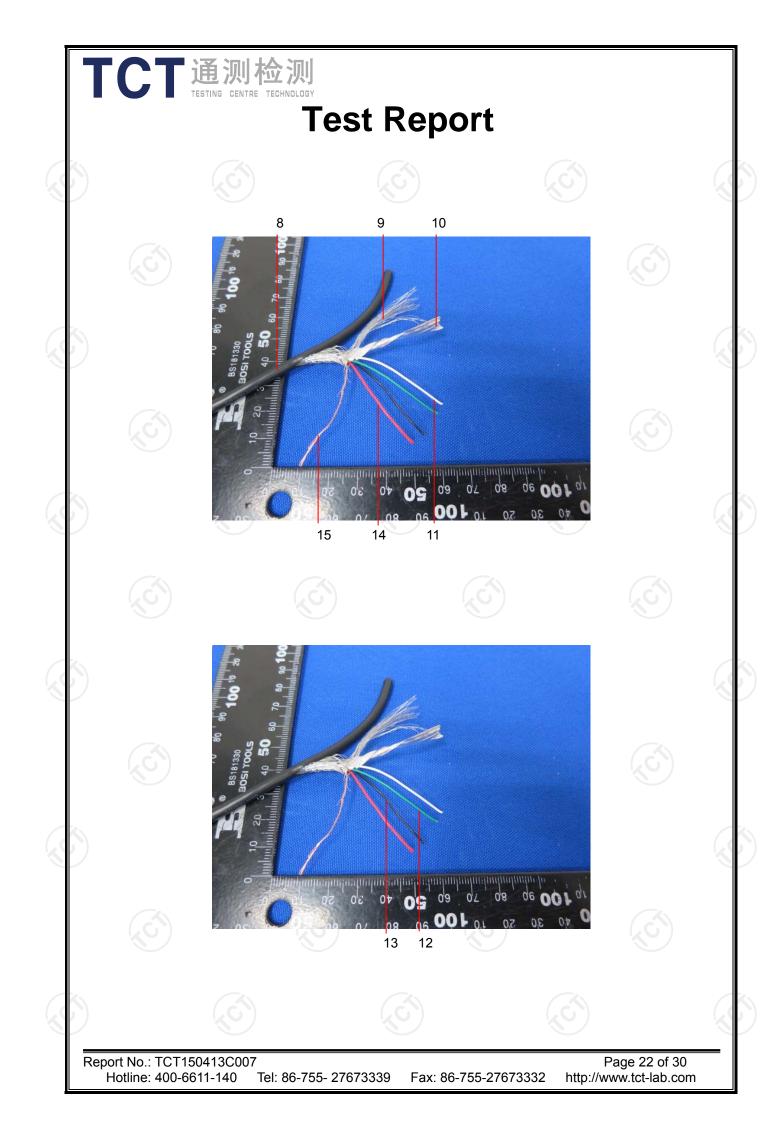
39, Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm<sup>2</sup> of Expires on 1 July 2014 light-emitting area) for use in solid state illumination or display systems 40, Cadmium in photoresistors for analogue optocouplers applied in Expires on 31 December 2013 professional audio equipment

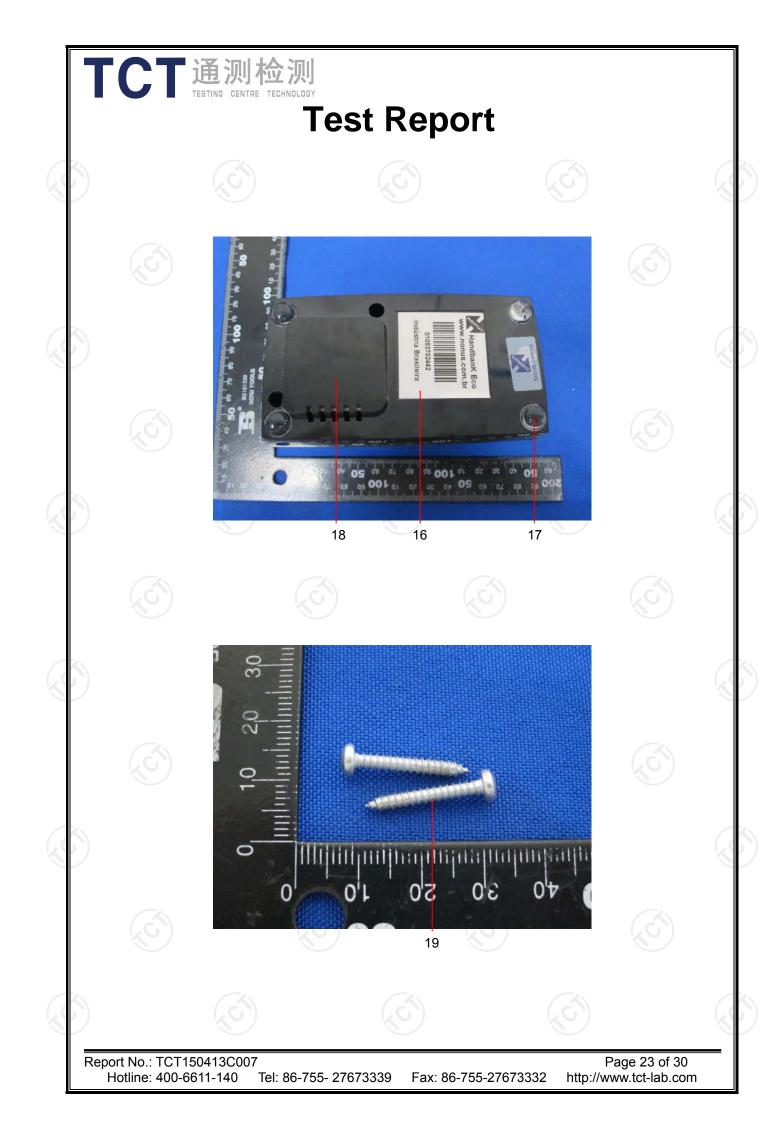
Report No.: TCT150413C007 Page 18 of 30 Hotline: 400-6611-140 Tel: 86-755- 27673339 Fax: 86-755-27673332 http://www.tct-lab.com

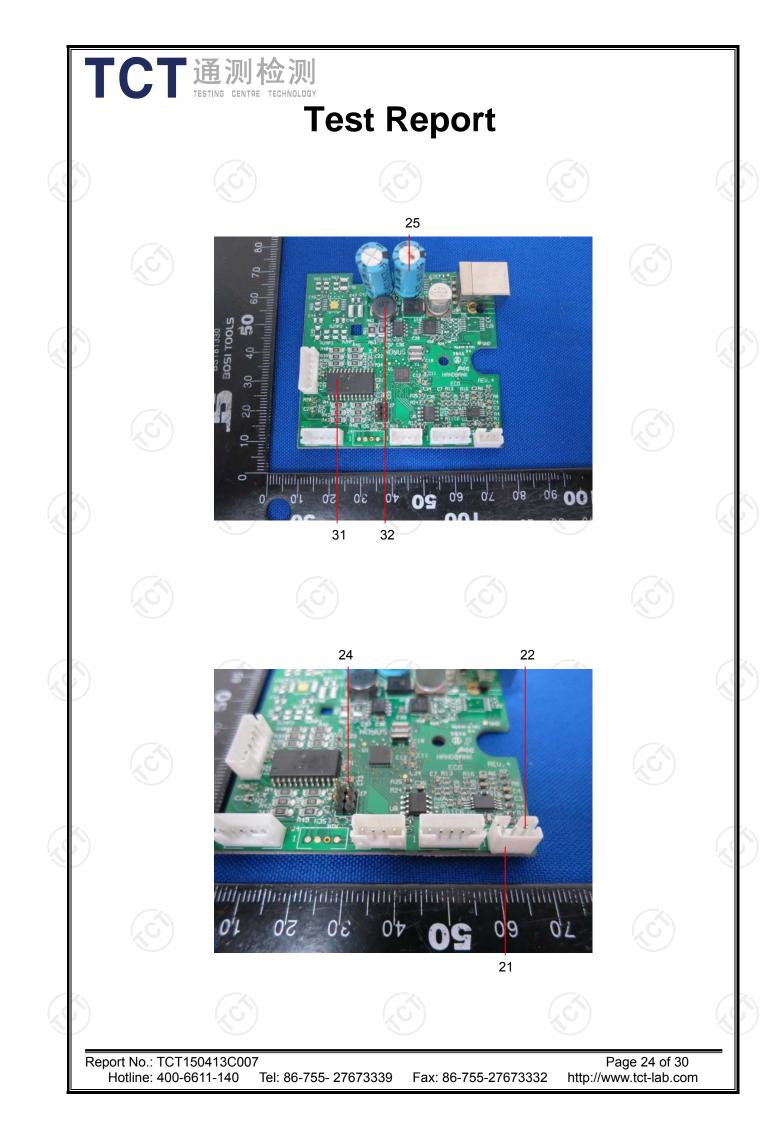
		<u> </u>		Exemptions				
RoHS	S Directive 20	)11/65/EU	ANNEX III	Ś		Ś		
2. Fo homo polyb	ogeneous ma	26, 29.12.1 es of Directi terials for le	emption Items 969, p.36. ive 2011/65/EU, a ead, mercury, hea ers (PBDE) and c	xavalent chrom	nium, polybrom	ue of 0,1 % by iinated biphen	yls (PBB) and	



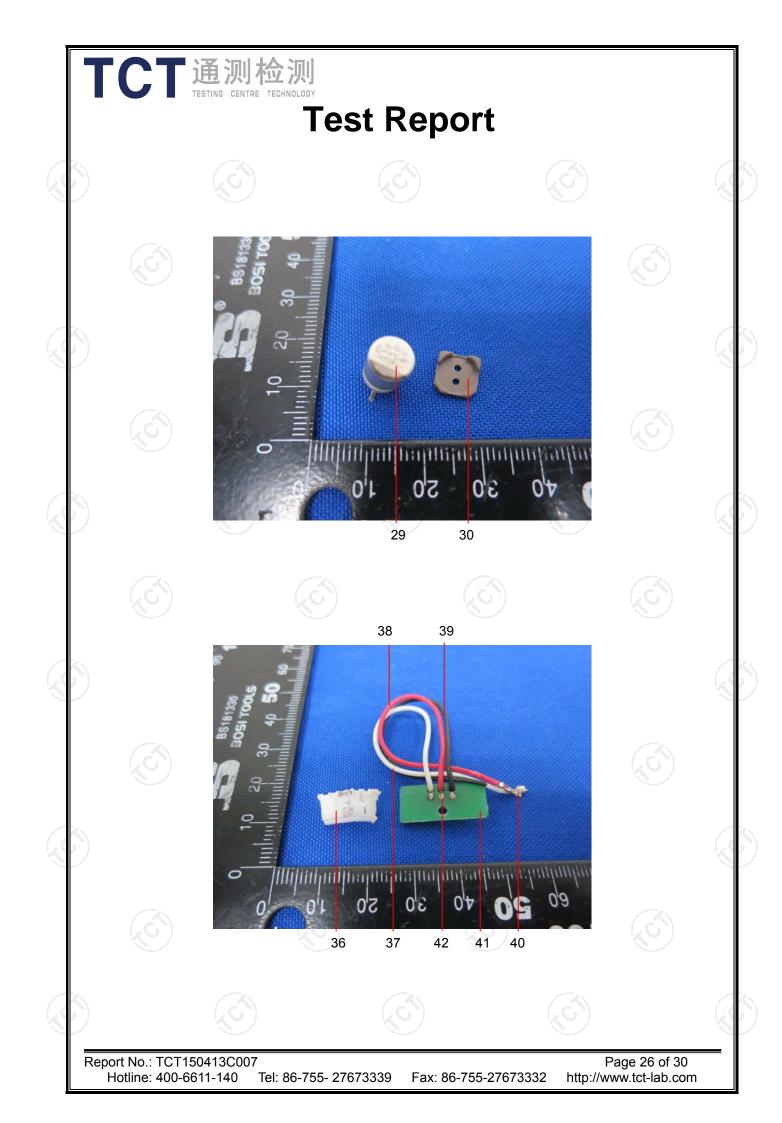


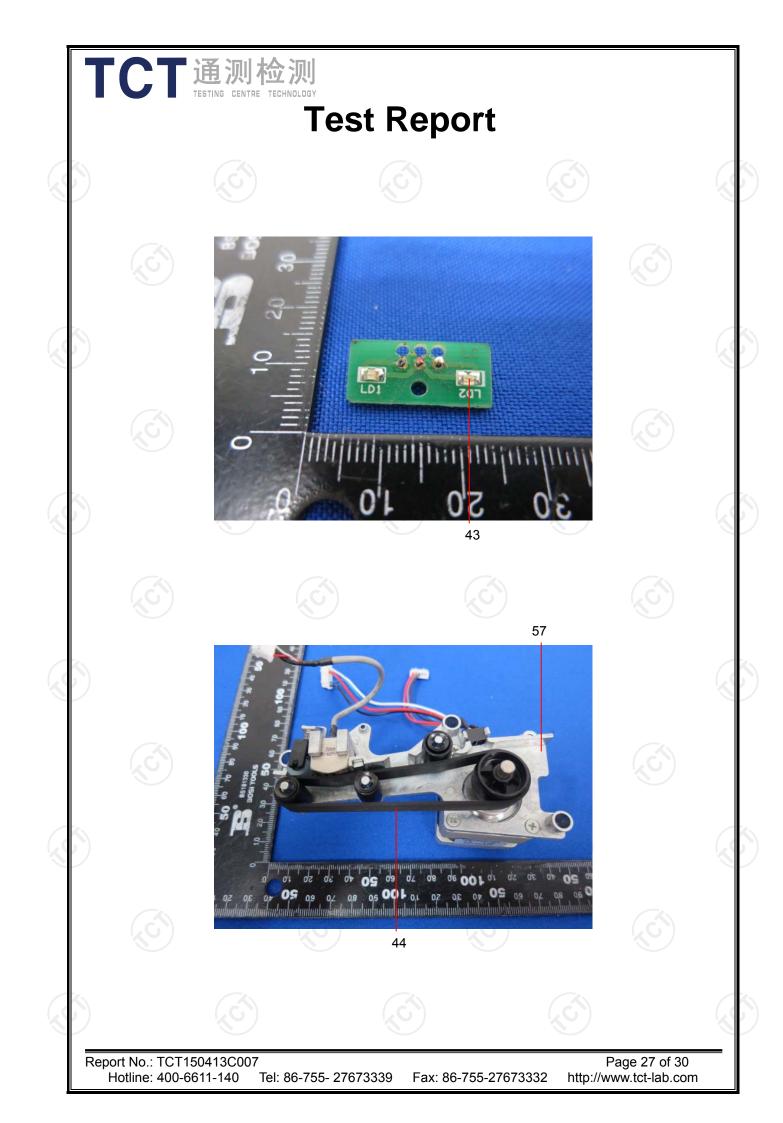


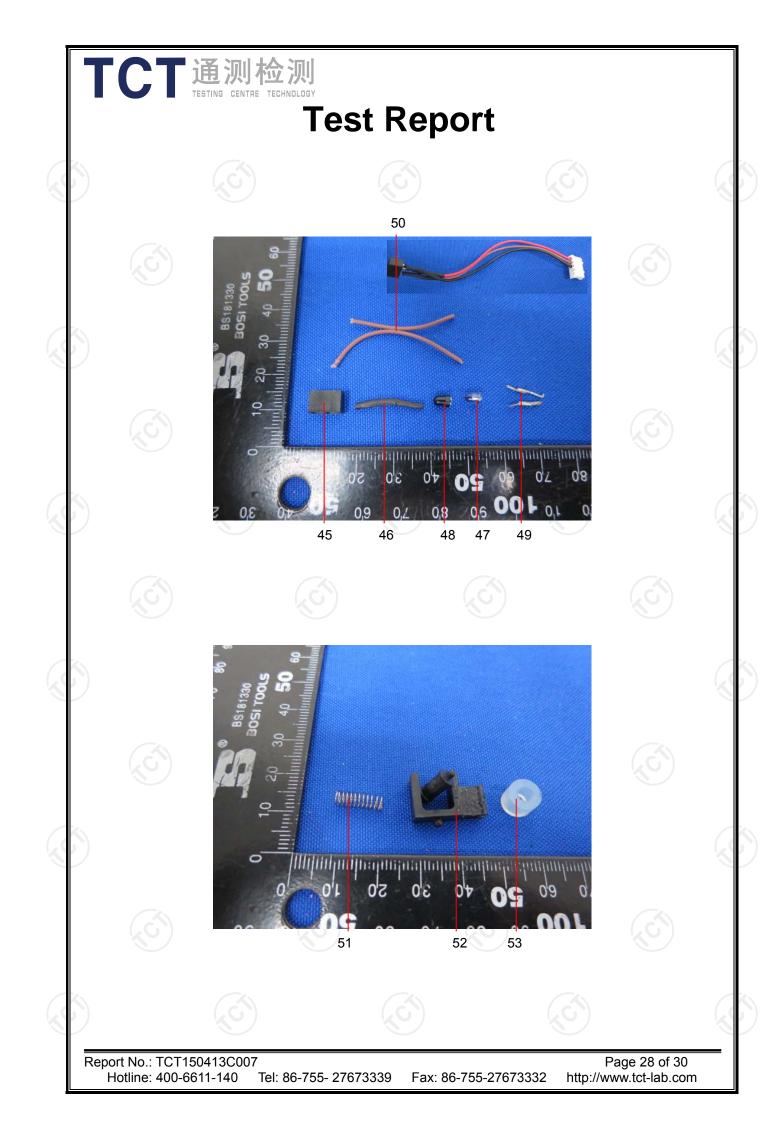


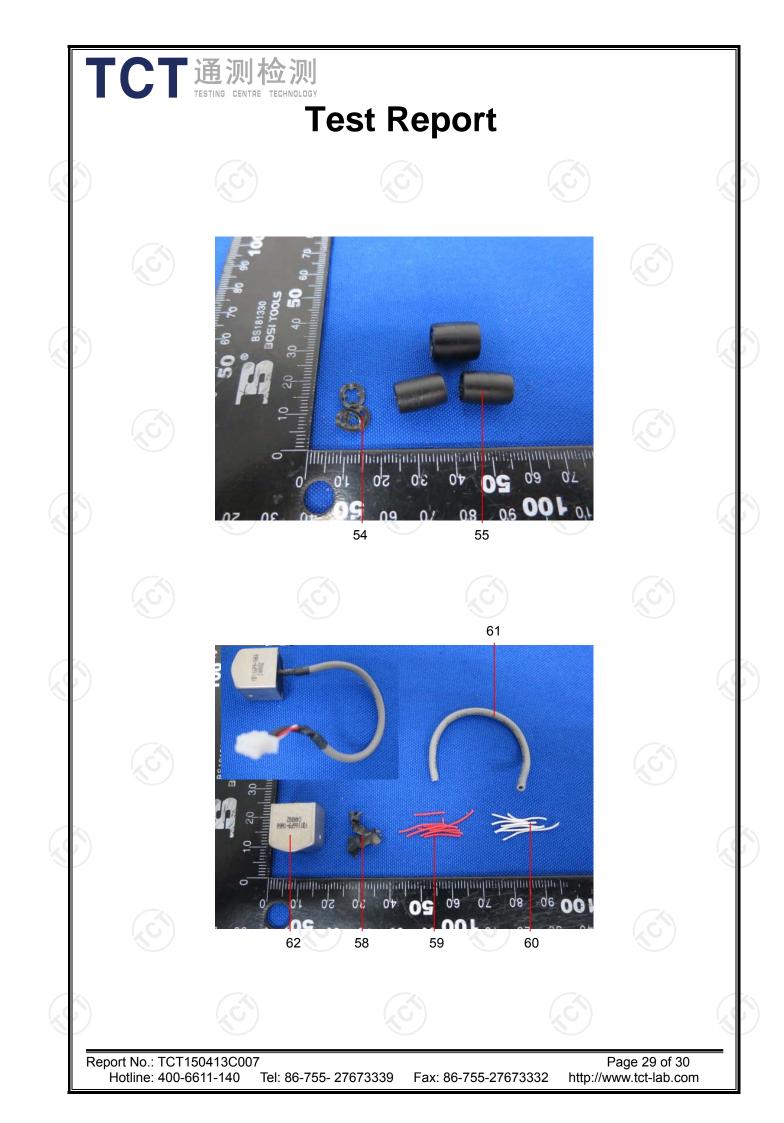












	56 34	20 64	
60 100 h 1 1 100 h			
00 01 02 00 07 09 09 63	0° 0 <b>° 0° 0°</b> 0° 0° 0° 0° 0′ 08 06 <b>001</b> 01 07 23 35	de <b>001</b> d' ds de <b>00</b> de de <b>20 t</b> d <b>20</b> de 30 65	
	*** End of Report *	**	