

Reference No.: SZ2018120209-1E Date: Dec. 20, 2018 Page No.: 1 of 22

Client: Mid Ocean Brands B.V.

Address: 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following merchandise was (were) submitted and identified by the client as:

Name of Product: Light bulb key ring with white LED light.

Test Model: IT3704

Model May Cover: Main Material:

Supplier: 107961

Buyer:

Sample Received: Dec. 06, 2018

Test Period: Dec. 06, 2018 - Dec. 12, 2018

As requested by the client, According to RoHS Directive 2011/65/EU(RoHS 2.0),

Split the sample and determine the Pb, Cd, Hg, Cr (VI), PBBs, PBDEs content of the parts.

Test Specification and Conclusion:

RoHS Directive 2011/65/EU(RoHS 2.0)

**PASS** 

Prepared By:

**David Chen Testing Engineer**  Reviewed By:

**Dora Cheng Reporter Supervisor**  Issued By

Lab Manager



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#### **TEST METHOD:**

- 1. Sample prepared with reference to IEC 62321-2:2013 Determination of certain substances in electrotechnical products Part 2: Disassembly, disjunction and mechanical sample preparation
- 2. Sample Screening testing with reference to IEC 62321-3-1:2013 Determination of certain substances in electrotechnical products Part 3-1: Screening Lead, mercury, cadmium, total chromium and total bromine using X-ray fluorescence spectrometry.
- 3. Wet Chemical Test Method
  - a. Determination of Lead ,Cadmium by ICP-OES with reference to IEC 62321-5:2013
  - b. Determination of Mercury by ICP-OES with reference to IEC 62321-4:2013+A1:2017
  - c. Determination of Hexavalent Chromium by Spot test or UV-Vis Method with reference to IEC 62321-7-1: 2015 or IEC 62321-7-2:2017
  - d. Determination of PBBs and PBDEs by GC-MS with reference to IEC 62321-6:2015

\*\*\*\*\*\*\* To be continued \*\*\*\*\*\*\*

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#### **TEST RESULTS:**

	RESULIS:	1			T
Part No.	Part Description	Restricted Substances	Result of EDXRF(1)	Result of Chemical Testing(2) (mg/kg)	Part Photos
		Pb	BL		
		Cd	BL		
4.44	Cilver vers to being	Hg	BL		
1#	Silvery metal ring	Cr(VI)	BL		
		PBBs			
		PBDEs			
		Pb	BL		
		Cd	BL		
2#	Silvery metal clip	Hg	BL		0000
2#	Silvery metal clip	Cr(VI)	BL		
		PBBs			
		PBDEs	<del></del>		
		Pb	BL		
		Cd	BL		
3#	Transparent plastic part	Hg	BL		0000
		Cr(VI)	BL		
		PBBs	BL		
		PBDEs	DL		



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Part No.	Part Description	Restricted Substances	Result of EDXRF(1)	Result of Chemical Testing(2) (mg/kg)	Part Photos
		Pb	BL		
		Cd	BL		
4#	Silveny metal part	Hg	BL		0006
4#	Silvery metal part	Cr(VI)	BL		
		PBBs			
		PBDEs			
		Pb	BL		
		Cd	BL		
5#	Transparent plastic	Hg	BL		0000
3#	bulb	Cr(VI)	BL		
		PBBs	BL		
		PBDEs	DL		
		Pb	BL		
		Cd	BL		
6#	Silvery metal contact	Hg	BL		0000
011	sheet	Cr(VI)	IN	Negative	
		PBBs			
		PBDEs			
		Pb	BL		
7#		Cd	BL		
	Blue plastic button	Hg	BL		
,	2.45 plactic button	Cr(VI)	BL		7,11
		PBBs	BL		
		PBDEs	DL		

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Part No.	Part Description	Restricted Substances	Result of EDXRF(1)	Result of Chemical Testing(2) (mg/kg)	Part Photos
		Pb	BL		
		Cd	BL		
8#	White plastic frame	Hg	BL		<i>A</i> • . 7
0#	writte plastic traffie	Cr(VI)	BL		
		PBBs	BL		1 2
		PBDEs	DL		
		Pb	BL		
		Cd	BL		
9#	Silvery metal sliding	Hg	BL		<i>∅</i> . □ . ¬
	block	Cr(VI)	BL		
		PBBs			
		PBDEs			
		Pb	BL		
		Cd	BL		1
10#	Silvery metal part	Hg	BL		
1011	Clivery Metal part	Cr(VI)	IN	Negative	
		PBBs			
		PBDEs			
		Pb	BL		
11#		Cd	BL		
	Black plating metal	Hg	BL		<b>∅</b> ■ . ¬
Ι Ιπ	spring	Cr(VI)	IN	Negative	
		PBBs			
		PBDEs	<b></b>		

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Part No.	Part Description	Restricted Substances	Result of EDXRF(1)	Result of Chemical Testing(2) (mg/kg)	Part Photos
		Pb	BL		
		Cd	BL		
12#	Black plastic frame	Hg	BL		11 . 7
12#	Black plastic frame	Cr(VI)	BL		7
		PBBs	BL		
		PBDEs	DL		
		Pb	BL		
		Cd	BL		
13#	Silvery metal pin	Hg	BL		1 . 7
1011	Onvery metal pin	Cr(VI)	BL		
		PBBs			
		PBDEs			
		Pb	BL		
		Cd	BL		
14#	Transparent plastic	Hg	BL		
1-477	frame	Cr(VI)	BL		
		PBBs	BL		
		PBDEs	DE		
		Pb	BL		
15#		Cd	BL		
	Silvery metal pin of	Hg	BL		
10π	lamp	Cr(VI)	IN	Negative	
		PBBs			
		PBDEs			

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Part No.	Part Description	Restricted Substances	Result of EDXRF(1)	Result of Chemical Testing(2) (mg/kg)	Part Photos
		Pb	BL		
		Cd	BL		
16#	Transparent LED	Hg	BL		
10#	Transparent LLD	Cr(VI)	BL		
		PBBs	IN	N.D.	
		PBDEs	IIN	N.D.	

\*\*\*\*\*\*\* To be continued \*\*\*\*\*\*\*

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#### Remark:

(1) (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)

Element	Polymer	Metal	Composite Materials
Cd	BL≤(70-3σ) <x<(130+3σ) td="" ≤ol<=""><td>BL≤(70-3σ)<x<(130+3σ) td="" ≤ol<=""><td>LOD<x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)></td></x<(130+3σ)></td></x<(130+3σ)>	BL≤(70-3σ) <x<(130+3σ) td="" ≤ol<=""><td>LOD<x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)></td></x<(130+3σ)>	LOD <x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)>
Pb	BL≤(700-3σ) <x<(1300+3σ) td="" ≤ol<=""><td>BL≤(700-3σ)<x<(1300+3σ) td="" ≤ol<=""><td>BL≤(500-3σ)<x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)></td></x<(1300+3σ)></td></x<(1300+3σ)>	BL≤(700-3σ) <x<(1300+3σ) td="" ≤ol<=""><td>BL≤(500-3σ)<x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)></td></x<(1300+3σ)>	BL≤(500-3σ) <x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)>
Hg	BL≤(700-3σ) <x<(1300+3σ) td="" ≤ol<=""><td>BL≤(700-3σ)<x<(1300+3σ) td="" ≤ol<=""><td>BL≤(500-3σ)<x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)></td></x<(1300+3σ)></td></x<(1300+3σ)>	BL≤(700-3σ) <x<(1300+3σ) td="" ≤ol<=""><td>BL≤(500-3σ)<x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)></td></x<(1300+3σ)>	BL≤(500-3σ) <x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)>
Br	BL≤(300-3σ) <x< td=""><td></td><td>BL≤(250-3σ)<x< td=""></x<></td></x<>		BL≤(250-3σ) <x< td=""></x<>
Cr	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ)<x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<></td></x<>	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<>	BL≤(500-3σ) <x< td=""></x<>

- (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 62321-7-1:2015, result on Cr<sup>6+</sup> for metal sample is shown as Positive/Negative.

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

(3) RoHS Requirement

Restricted substances	Limits
Lead (Pb)	0.1% (1000mg/kg)
Cadmium (Cd)	0.01% (100mg/kg)
Mercury (Hg)	0.1% (1000mg/kg)
Chromiun (VI) (Cr <sup>6+</sup> )	0.1% (1000mg/kg)
Polybrominated biphenyls (PBBs)	0.1% (1000mg/kg)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000mg/kg)

\*\*\*\*\*\* To be continued \*\*\*\*\*\*

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#### (4)RoHS Exemptions

(4)RoHS Exemptions					
Exemptions					
RoHS Directive 2011/65/EU ANNEX III and its subsequent amendments					
Exemption Items	Expires Date				
1, Mercury in single capped (compact) fluorescent lamps not exceeding (per					
burner):					
1(a), For general lighting purposes < 30 W:2.5 mg					
1(b), For general lighting purposes≥ 30 W and < 50W:3.5mg					
1(c), For general lighting purposes ≥ 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 ≤ 17 mm: 7 mg					
1(f), For special purposes: 5 mg					
1(g), For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3,5 mg	Expires on 31 December 2017				
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 $\geq$ 9 mm and $\leq$ 17 mm (e.g. T5): 3 mg					
2(a)(3), Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 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): 3.5 mg					
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 mm (e.g. T9):15mg					
2(b)(4), Lamps for other general lighting and special purposes (e.g. induction					
lamps):15mg					
3, Mercury in cold cathode fluorescent lamps and external electrode fluorescent					
lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):					
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 lighting					
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 ≤ 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					
T(0) II, 100 ¥¥ >1 = T00 ¥¥.00IIIg					

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Exemptions				
RoHS Directive 2011/65/EU ANNEX III and its subsequent amendments				
Exemption Items	Expires Date			
4(c)-III, P > 405 W:40mg				
4(e), Mercury in metal halide lamps (MH)				
4(f), Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex				
4(g), Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows:	Expires on 31 December 2018'			
(a) 20 mg per electrode pair+0,3mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 $^{\circ}$ C;				
(b) 15 mg per electrode pair+0,24mg per tube length in cm, but not more than 80 mg, for all other indoor applications				
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(a)-I, Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components	Expires on:  — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments;  — 21 July 2023 for category 8 in vitro diagnostic medical devices;  — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.  Expires on 21 July 2021 for categories 1-7 and 10.			
containing up to 0,2 % lead by weight				
6(b), Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	Expires on:  — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments,  — 21 July 2023 for category 8 in vitro diagnostic medical devices,  — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.			
6(b)-I Lead as an alloying element in aluminium containing up to 0,4 % lead by	Expires on 21 July 2021 for			
weight, provided it stems from lead-bearing aluminium scrap recycling  6(b)-II Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight	categories 1-7 and 10.  Expires on 18 May 2021 for categories 1-7 and 10			

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Exemptions	
RoHS Directive 2011/65/EU ANNEX III and its subsequent amendments	
Exemption Items	Expires Date
6(c), Copper alloy containing up to 4 % lead by weight	Expires on:  — 21 July 2021 for categories 1-7 and 10,  —21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments,  —21 July 2023 for category 8 in vitro diagnostic medical devices,  — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
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	Applies to categories 1-7 and 10 (except applications covered by point 24 of this Annex) and expires on 21 July 2021. For categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021. For category 8 in vitro diagnostic medical devices expires on 21 July 2023. For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.
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	Applies to categories 1-7 and 10 (except applications covered under point 34) and expires on 21 July 2021.  For categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021.  For category 8 in vitro diagnostic medical devices expires on 21 July 2023.  For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.

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Exemptions				
RoHS Directive 2011/65/EU ANNEX III and its subsequent amendments				
Exemption Items	Expires Date			
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	Applies to categories 8, 9 and 11;			
heating, ventilation, air conditioning and refrigeration (HVACR) applications	expires on:			
	— 21 July 2023 for category 8 in vitro diagnostic medical devices, —21 July 2024 for category 9 industrial monitoring and control instruments and for category 11, —21 July 2021 for other subcategories of categories 8 and 9.			
9(b)-(I), Lead in bearing shells and bushes for refrigerant- containing hermetic	Applies to category 1; expires on			
scroll compressors with a stated electrical power input equal or below 9 kW for	21 July 2019.'			
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			

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Exemptions		
RoHS Directive 2011/65/EU ANNEX III and its subsequent amendments		
Exemption Items	Expires Date	
13(a), Lead in white glasses used for optical applications	Applies to all categories; expires	
	on:	
	— 21 July 2023 for category 8 in	
	vitro diagnostic medical devices;	
	—21 July 2024 for category 9	
	industrial monitoring and control	
	instruments and for category 11;	
	— 21 July 2021 for all other	
	categories and subcategories	
13(b),Cadmium and lead in filter glasses and glasses used for reflectance	Applies to categories 8, 9 and 11;	
standards	expires on:	
	— 21 July 2023 for category 8 in	
	vitro diagnostic medical devices;	
	—21 July 2024 for category 9	
	industrial monitoring and control	
	instruments and for category 11;	
	—21 July 2021 for other	
	subcategories of categories 8 and	
	9	
13(b)-(I),Lead in ion coloured optical filter glass types	Applies to categories 1 to 7 and 10;	
	expires on 21 July 2021 for	
	categories 1 to 7 and 10'	
13(b)-(II) ,Cadmium in striking optical filter glass types; excluding applications	Applies to categories 1 to 7 and 10;	
falling under point 39 of this Annex	expires on 21 July 2021 for	
	categories 1 to 7 and 10'	
13(b)-(III), Cadmium and lead in glazes used for reflectance standards	Applies to categories 1 to 7 and 10;	
	expires on 21 July 2021 for	
	categories 1 to 7 and 10'	
14, Lead in solders consisting of more than two elements for the connection	Expires on 1 January 2011 and	
between the pins and the package of micropro-cessors with a lead content of more	after that date may be used in	
than 80 % and less than 85 % by weight	spare parts for EEE placed on the	
15, Lead in solders to complete a viable electrical connection between	market before 1 January 2011	
semiconductor die and carrier within integrated circuit flip chip packages		
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)		
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Exemptions		
RoHS Directive 2011/65/EU ANNEX III and its subsequent amendments		
Exemption Items	Expires Date	
21, Lead and cadmium in printing inks for the application of enamels on glasses,	Expires Date	
such as borosilicate and soda lime glasses		
23, Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less	May be used in spare parts for 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	Expires on:  — 21 July 2021 for categories 1-7 and 10,  — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments,  —21 July 2023 for category 8 in vitro diagnostic medical devices,  — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.	
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 $\binom{1}{1}$		
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 $$ $$ $\mu m$ diameter and less in power transformers		
34, Lead in cermet-based trimmer potentiometer elements	Applies to all categories; expires on:  — 21 July 2021 for categories 1-7 and 10,  —21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments,  —21 July 2023 for category 8 in vitro diagnostic medical devices,  — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.	
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		

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Exemptions	
RoHS Directive 2011/65/EU ANNEX III and its subsequent amendments	
Exemption Items	Expires Date
39(a), Cadmium selenide in downshifting cadmium-based semiconductor	Expires for all categories on 31
nanocrystal quantum dots for use in display lighting applications (< 0,2 µg Cd per	October 2019.
mm2 of display screen area)	
41, Lead in solders and termination finishes of electrical and electronic	Expires on 31 December 2018
components and finishes of printed circuit boards used in ignition modules and	
other electrical and electronic engine control systems, which for technical reasons	
must be mounted directly on or in the crankcase or cylinder of hand-held	
combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the	
European Parliament and of the Council)	
Note: (1) OJ L 326, 29.12.1969, p.36.	

Exemptions	
RoHS Directive 2011/65/EU ANNEX IV and its subsequent amendments	
Equipment onizing or detecting onizing radiation	
Exemption Items	Expires Date
1. Lead, cadmium and mercury in detectors for onizing radiation.	
2. Lead bearings in X-ray tubes.	
3. Lead in electromagnetic radiation amplification devices: micro-channel plate and capillary plate.	
4. Lead in glass frit of X-ray tubes and image intensifiers and lead in glass	
frit binder for assembly of gas lasers and for vacuum tubes that convert	
electromagnetic radiation into electrons.	
Lead in shielding for onizing radiation.	
6. Lead in X-ray test objects.	
7. Lead stearate X-ray diffraction crystals.	
8. Radioactive cadmium isotope source for portable X-ray fluorescence	
spectrometers.	
Sensors, detectors and electrodes	
8.1a. Lead and cadmium in ion selective electrodes including glass of pH	
electrodes.	
8.1b. Lead anodes in electrochemical oxygen sensors.	
8.1c. Lead, cadmium and mercury in infra-red light detectors.	
8.1d. Mercury in reference electrodes: low chloride mercury chloride,	
mercury sulphate and mercury oxide.	
9. Cadmium in helium-cadmium lasers.	
10. Lead and cadmium in atomic absorption spectroscopy lamps.	
11. Lead in alloys as a superconductor and thermal conductor in MRI.	
12. Lead and cadmium in metallic bonds creating superconducting	Expires on 30 June 2021
magnetic circuits in MRI, SQUID, NMR (Nuclear Magnetic Resonance) or	
FTMS (Fourier Transform Mass Spectrometer) detectors.	
13. Lead in counterweights.	

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Exemptions	
RoHS Directive 2011/65/EU ANNEX IV and its subsequent amendments	
Equipment onizing or detecting onizing radiation	
Exemption Items	Expires Date
14. Lead in single crystal piezoelectric materials for ultrasonic	
transducers.	
15. Lead in solders for bonding to ultrasonic transducers.	
16. Mercury in very high accuracy capacitance and loss measurement	
bridges and in high frequency RF switches and relays in monitoring and	
control instruments not exceeding 20 mg of mercury per switch or relay.	
17. Lead in solders in portable emergency defibrillators.	
18. Lead in solders of high performance infrared imaging modules to	
detect in the range 8-14 µm.	
19. Lead in Liquid crystal on silicon (LcoS) displays.	
20. Cadmium in X-ray measurement filters.	
21. Cadmium in phosphor coatings in image intensifiers for X-ray images	
until 31 December 2019 and in spare parts for X-ray systems placed on	
the EU market before 1 January 2020.	
22. Lead acetate marker for use in stereotactic head frames for use with	Expires on 30 June 2021.
CT and MRI and in positioning systems for gamma beam and particle	·
therapy equipment.	
23. Lead as an alloying element for bearings and wear surfaces in	Expires on 30 June 2021
medical equipment exposed to ionising radiation.	
24. Lead enabling vacuum tight connections between aluminium and	Expires on 31 December 2019
steel in X-ray image intensifiers.	
25. Lead in the surface coatings of pin connector systems requiring	Expires on 30 June 2021
nonmagnetic connectors which are used durably at a temperature below	
<ul> <li>20 °C under normal operating and storage conditions.</li> </ul>	
26. Lead in the following applications that are used durably at a	Expires on 30 June 2021
temperature below - 20 °C under normal operating and storage	
conditions:	
(a) solders on printed circuit boards;	
(b)termination coatings of electrical and electronic components and	
coatings of printed circuit boards;	
(c) solders for connecting wires and cables;	
(d) solders connecting transducers and sensors.	
Lead in solders of electrical connections to temperature measurement	
sensors in devices which are designed to be used periodically at	
temperatures below – 150 °C.	F : 00 L 0000
27. Lead in	Expires on 30 June 2020
— solders,	
termination coatings of electrical and electronic components and	
printed circuit boards,	
<ul> <li>connections of electrical wires, shields and enclosed connectors, which are used in</li> </ul>	
magnetic fields within the sphere of 1 m radius around the isocentre of the magnet in medical magnetic resonance imaging equipment, including	
patient monitors designed to be used within this sphere, or	
magnetic fields within 1 m distance from the external surfaces of cyclotron	
magnets, magnets for beam transport and beam direction control applied	
for particle therapy.	
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Exemptions	
RoHS Directive 2011/65/EU ANNEX IV and its subsequent amendments Equipment onizing or detecting onizing radiation	
Exemption Items	Expires Date
28. Lead in solders for mounting cadmium telluride and cadmium zinc telluride digital array detectors to printed circuit boards.	Expires on 31 December 2017
29. Lead in alloys, as a superconductor or thermal conductor, used in cryo-cooler cold heads and/or in cryo-cooled cold probes and/or in cryo-cooled equipotential bonding systems, in medical devices (category 8) and/or in industrial monitoring and control instruments.	Expires on 30 June 2021
30. Hexavalent chromium in alkali dispensers used to create photocathodes in X-ray image intensifiers until 31 December 2019 and in spare parts for X-ray systems placed on the EU market before 1 January 2020.	
31a. Lead, cadmium, hexavalent chromium, and polybrominated diphenyl	Expires on:
ethers (PBDE) in spare parts recovered from and used for the repair or	(a) 21 July 2021 for the use in medical
refurbishment of medical devices, including in vitro diagnostic medical devices, or electron microscopes and their accessories, provided that the	devices other than in vitro diagnostic
reuse takes place in auditable closed-loop business-to-business return	medical devices;
systems and that each reuse of parts is notified to the customer.	(b) 21 July 2023 for the use in in vitro
	diagnostic medical devices;
	(c) 21 July 2024 for the use in electron
	microscopes and their accessories.'
32. Lead in solders on printed circuit boards of detectors and data acquisition units for Positron Emission Tomographs which are integrated into Magnetic Resonance Imaging equipment.	Expires on 31 December 2019
33. Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators.	Expires on 30 June 2016 for class IIa and on 31 December 2020 for class IIb.
34. Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb) phosphors.	Expires on 22 July 2021
35. Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017	Expires on 21 July 2024
36. Lead used in other than C-press compliant pin connector systems for	Expires on 31 December 2020. May be
industrial monitoring and control instruments.	used after that date in spare parts for
	industrial monitoring and control
	instruments placed on the market before 1
	January 2021.'

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Exemptions	
RoHS Directive 2011/65/EU ANNEX IV and its subsequent amendments	
Equipment onizing or detecting onizing radiation  Exemption Items	Expires Date
37. Lead in platinized platinum electrodes used for conductivity	Expires Date  Expires on 31 December 2018
	Expired on a 1 Becombar 2010
measurementswhere at least one of the following conditions applies:	
(a) wide-range measurements with a conductivity range covering more	
than 1 order of magnitude (e.g. range between 0,1 mS/m and 5 mS/m) in	
laboratory applications for unknown concentrations;	
(b) measurements of solutions where an accuracy of +/- 1 % of the	
sample range and where high corrosion resistance of the electrode are	
required for any of the following:	
(i) solutions with an acidity < pH 1;	
(ii) solutions with an alkalinity > pH 13;	
(iii) corrosive solutions containing halogen gas;	
(c) measurements of conductivities above 100 mS/m that must be	
performed with portable instruments.	
38. Lead in solder in one interface of large area stacked die elements with more than 500 interconnects per interface which are used in X-ray detectors of computed tomography and X-ray systems	Expires on 31 December 2019. May be used after that date in spare parts for CT and X-ray systems placed on the market before 1 January 2020.
39. Lead in micro-channel plates (MCPs) used in equipment where at	(a) 21 July 2021 for medical devices and
least one of the following properties is present:	monitoring and control instruments;
(a)a compact size of the detector for electrons or ions, where the space	(b) 21 July 2023 for in-vitro diagnostic
for the detector is limited to a maximum of 3 mm/MCP (detector	medical devices;
thickness+space for installation of the MCP), a maximum of 6 mm in total,	(c) 21 July 2024 for industrial monitoring
and an alternative design yielding more space for the detector is	and control instruments
scientifically and technically impracticable;	
(b)a two-dimensional spatial resolution for detecting electrons or ions,	
where at least one of the following applies:	
(i)a response time shorter than 25 ns;	
(ii)a sample detection area larger than 149 mm <sup>2</sup> ;	
(iii)a multiplication factor larger than $1.3 \times 10^3$ .	
(c)a response time shorter than 5 ns for detecting electrons or ions;	
(d)a sample detection area larger than 314 mm² for detecting electrons or	
ions;	
(e)a multiplication factor larger than $4.0 \times 10^7$ .	
40. Lead in dielectric ceramic in capacitors for a rated voltage of less than	Expires on 31 December 2020. May be
125 V AC or 250 V DC for industrial monitoring and control instruments	used after that date in spare parts for industrial monitoring and control instruments placed on the market before 1 January 2021

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Exemptions	
RoHS Directive 2011/65/EU ANNEX IV and its subsequent amendments Equipment onizing or detecting onizing radiation	
Exemption Items	Expires Date
41. Lead as a thermal stabiliser in polyvinyl chloride (PVC) used as base material in amperometric, potentiometric and conductometric electrochemical sensors which are used in in-vitro diagnostic medical devices for the analysis of blood and other body fluids and body gases.	Expires on 31 December 2018
42. Mercury in electric rotating connectors used in intravascular ultrasound imaging systems capable of high operating frequency (> 50 MHz) modes of operation.	Expires on 30 June 2019
43. Cadmium anodes in Hersch cells for oxygen sensors used in industrial monitoring and control instruments, where sensitivity below 10 ppm is required.	Expires on 15 July 2023

\*\*\*\*\*\*\* To be continued \*\*\*\*\*\*\*

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#### **TESTED MAIN MODEL'S PRODUCT PHOTO**



\*\*\*\*\*\* END OF REPORT \*\*\*\*\*\*

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#### GENERAL CONDITIONS OF SERVICES

STQ Testing Services Co.,Ltd. (hereinafter "STQ"), while reserving the right to decline, without giving any reason whatsoever, any request for the undertaking of a test or investigation, will carry out at the request of the clients the required test or investigation subject always to the following conditions:

- 1.STQ only acts for the person or body originating the instructions (the "Clients"). No other party is entitled to give instructions, particularly on the scope of testing or delivery of report or certificate, unless authorized by the Clients.
- 2. The Sample(s) to be tested or investigated shall be delivered at the costs of the Clients and in accordance with the requirements of STQ. Improper shipping, packaging, and labeling of the Sample(s) by the Client may result in incorrect testing results, STQ shall be under no obligation to the Clients. At the conclusion of the test or investigation, the Clients shall, if required by STQ, collect the Sample(s). In any event, if the Sample(s) are not collected by the Clients within 60 days from the issuance date of the test report (for perishable items such as food and water samples, the relevant period shall be the preserving period up to 15 days), STQ may at its discretion dispose of the Sample(s) without any compensation to the Clients.
- 3.The Clients shall always comply with the following before or during STQ providing its services:
- a) provide sample(s) and relevant data, at the same time, guarantee the consistence of the sample(s) name they declared with the sample(s) or the goods provided. Otherwise, STQ will not bear any relevant responsibilities;
- b) giving timely instructions and adequate information to enable STQ to perform the services effectively;
- c) supply, when requested by STQ, any equipment and personnel for the performance of the services;
- d) take all necessary steps to eliminate or remedy any obstruction in the performance of the services;
- e) inform STQ in advance of any hazards or dangers, actual or potential, associated with any order of samples or testing;
- f) provide all necessary access for STQ's representative to enable the required services to be performed effectively;
- g) ensure all essential steps are taken for safety of working conditions, sites and installations during the performance of services;
- h) fully discharge all its liabilities under any contract like sales contract with a third party, whether or not a report or certificate has been issued by STQ, failing which STQ shall be under no obligation to the Clients.
- 4.Subject to STQ's accepting the Client's instructions, STQ will issue reports or certificates which reflect statements of opinion made with due care within the scope of instructions but STQ is not obliged to report upon any facts outside the instructions, if there were any dissidence about the report or certificate, the Client should provide the written declaration to STQ within 15 days after the date receiving the report or certificate, otherwise, STQ will not hear the case after the date limit.
- 5.STQ is irrevocably authorized by the Clients to deliver at its discretion the report or the certificate to any third party when instructed by the Clients or where it implicitly follows from circumstances, trade custom, usage or practice as determined by STQ.
- 6.A test report will be issued in confidence to the Clients and it will be strictly treated as such by STQ. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of STQ. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by STQ, to his customer, supplier or other persons directly concerned. STQ will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the report unless required by the relevant governmental authorities, laws or court orders.
- 7.Applicants wishing to use STQ's reports in court proceedings or arbitration shall inform STQ to that effect prior to submitting the sample for testing.
- 8. The report will refer only to the sample tested and will not apply to the bulk, unless the sampling has been carried out by STQ and is stated as such in the Report. Also, the report is only for reference.
- 9. Any documents containing engagements between the Clients and third parties like contracts of sale, letters of credit, bills of lading, etc. are regarded as information for STQ only and do not affect the scope of the services or the obligations accepted by STQ.
- 10.If the Clients do not specify the methods/standards to be applied, STQ will choose the appropriate ones and further information regarding the methods can be obtained by direct contact with STQ, for the in—house method, STQ will only provide the summary.
- 11.No liability shall be incurred by and no claim shall be made against STQ or its servants, agents, employees or independent contractors in respect of any loss or damage to any such materials, equipment and property occurring whilst at STQ or any work places in which the testing is carried out, or in the course of transit to or from STQ or the said work places, whether or not resulting from any acts, neglect or default on the part of any such servants, agents, employees or independent contractors of STQ.
- 12.STQ will not be liable, or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its reports or in any communication whatsoever about its said tests or investigations.
- 13. Subject to Clause 11 and 12, the total liability of STQ in respect of any claim of loss, damage or expense of whatsoever nature shall not exceed a total sum equal to two times the amount of the service fee payable in respect of the services directly related to such claim, and STQ's liability shall not include any indirect, special or consequential loss of the Clients.
- 14.In the event of STQ prevented by any cause outside STQ's control from performing any service for which an order has been given or an agreement made, the Clients shall pay to STQ:
  - a) the amount of all abortive expenditure actually made or incurred;
  - b) a proportion of the agreed fee or commission equal to the proportion (if any) of the service actually carried out by STQ, and STQ shall be relieved of all responsibility whatsoever for the partial or total non—performance of the required service.
- 15.STQ shall be discharged from all liabilities for all claims for loss, damage or expense unless suit is brought within one calendar year after the date of the performance by STQ of the service relating to the claim or in the event of any alleged non—performance within one year of the date when such service should have been completed.

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- 16. The Clients acknowledge that STQ does not, either by entering into a contract or by performing service, assume or undertake to discharge any duty of the Clients to any other persons. STQ is neither an insurer nor a guarantor and disclaims all liability in such capacity.
- 17. The Clients shall hold harmless and indemnify STQ and its officers, employees, agents or independent contractors against all claims made by any third party for loss, damage or expense of whatsoever nature including reasonable legal expenses relating to the performance or non- performance of any services to the extent that the aggregate of any such claims relating to any one service exceed the limits mentioned in Clause 13.
- 18. Any unauthorized alteration, forgery or falsification of the content or appearance of the report/certificate is unlawful and offenders may be prosecuted to the fullest extent of the law; in the event of improper use of the report, STQ reserves the right to withdraw it, and to adopt any other measures which may be appropriate.
- 19.Samples are deposited with and accepted by STQ on the basis that either they are insured by the Clients or the Clients assumes entire responsibility for loss through fire, theft, burglary or for damages arising in the course of analysis or handling, without recourse whatsoever to STQ or its servants, agent, employees or independent contractors.
- 20.If the requirements of the Clients require the analysis of samples by the Clients' or any third party's laboratory, STQ will only convey the result of the analysis without responsibility for its accuracy. If STQ is only able to witness an analysis by the Clients' or any third Party's laboratory STQ will only confirm that the correct sample has been analyzed without responsibility for the accuracy of any analysis or results.
- 21.In the event of any unforeseen additional time or costs being incurred in the course of carrying out any of its services, STQ shall be entitled to charge the Clients additional fees to reflect the additional time and costs incurred.
- 22.All rights (including but not limited to copyright) in any reports, certificates or other materials produced by STQ in the course of providing its services shall remain vested in STQ.
- 23.Unless otherwise agreed in writing, payment is to be made within 10 days from the date of Invoice or the date of the Debit Note, all charges rendered by STQ or interest will become due at the rate of three percent per month from the date of invoice until actual payment. The Clients are also responsible for settling all STQ's costs of collecting the charges owed, including legal fees.
- 24. Test results may be transmitted by electronic means at the Client's request. However, it should be noted that electronic transmission cannot guarantee the information contained will not be lost, delayed or intercepted by third party. STQ is not liable for any disclosure, error or omission in the content of such messages as a result of electronic transmission.
- 25.If necessary, STQ may subcontract part of or all tests to competent subcontractors. If no objection is raised at the time of the Clients submitting the application, STQ shall assume the Client's approval.
- 26. This report/certificate does not relieve sellers/suppliers from their contractual responsibility with regards to the quality/quantity of this delivery nor does it prejudice the Client's right to claim towards sellers/suppliers for compensation for any apparent and/or hidden defects not detected during STQ's random inspection or testing or audit.
- 27.STQ reserves the right to include Special Conditions in addition to the foregoing General Conditions if warranted by the particular circumstances of the required test or investigation [this clause is only effective when the other party has been informed].
- 28. The foregoing General Conditions shall in all respects be governed, construed, interpreted and operated in accordance with the relevant Chinese laws and regulations. Unless otherwise agreed, the arbitration shall take place in P. R. C
- 29. These General Condition have been drafted in Chinese and may be translated into other languages. In the event of any discrepancy, the Chinese version shall prevail.
- 30.In general sample will be stored for 60 days. But for liquid, powder, etc semi-product & fragile product, it will be stored only for 7 days.
- 31. The effective date of this "GENERAL CONDITIONS OF SERVICES" is 1st May of 2017 and Version 2.0.

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