

Report No. ECL01I070650001R1 Page 1 of 57

#### CENTRE TESTING INTERNATIONAL



**Applicant** COMPEX SYSTEMS PTE LTD

Address NO:9 HARRISON ROAD, HARRISON INDUSTRIAL BUILDING, #05-01,

SINGAPORE 369651

**Product Name** WIRELESS NETWORK MINI PCIE & PCI ADAPTER& WIRELESS

**ACCESS POINT** 

**Client Reference** 

**Information** 

Please refer to page 3

#### Conclusion

Tested Sample	According to directive	Result
9.1 24 19. 1	RoHS Directive 2011/65/EU with	- D
Submitted Sample	amendment (EU) 2015/863	Pass
**********	***************************************	********

Pass means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment(EU) 2015/863.

Tested by

Ethan

Reviewed by

Kanxiaoyan

Appropried to MAL PINAL PINAL Su F

Centre Testing International Pinkiao(Shanghai) Co., Ltd.

Hongwei

Date

Jan. 5, 2017

Su Hongwei Semor Laboratory Manager

No. R270339414

No.1996, Xinjinqiao Road, Pudong New District, Shanghai, China



Report No. ECL	01I070650001R1					Page	e 2 of 57
		Rep	ort Cor	ntent			
Sample Inform	nation		··(ii)··		··· <del>(i)</del>	· · · · · · · · · · · · · · · · · · ·	3
Test Requested	1					·	4
Photo(s) of the	Product(s)						4
Test Method		(C)		6		0	5
Test Result(s).							7
Test Process	(6)		(6).)		(6)		36
Photo(s) of the	•	· -					39
RoHS Directiv	e Exemption	S		(65)	• • • • • • • • • • • •	(61)	51



Report No. ECL01I070650001R1

Page 3 of 57

Sample Received Date Nov. 28, 2016

Testing Period Nov. 28, 2016 to Jan. 4, 2017

Client Reference Information

WP546,WP543,WPJ543,WPE72,WPJ72Z,WLM54AG,R52-350,WPJ344,WPJ344-A,WPJ558,WPJ558-A,WPJ342,WPJ342-A, WPE71-IS, WPE71-TS,WPJ559,WPJ557-A, WPJ557
WPJ531,WPJ531-A, WP531-VA,WPJ563, WPJ563-A, AP148,WPQ864,WPQ862,WPQ865,WPQ865G,WPQ869

WLM200NX,WLM200N2-26, WLM200N2,WLM200N5-23ESD, WLM200N5-23ESD-4.9, WLM200N5-26ESD, WLM200N5-26ESD-4.9

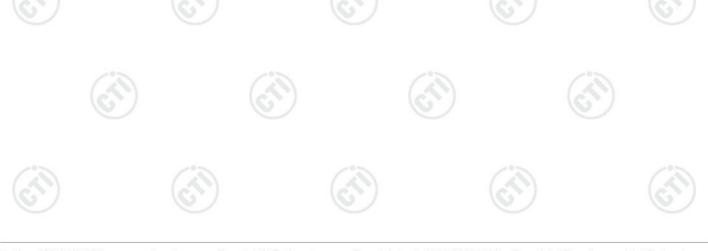
WLE200NX,WLE200NX-I, WLE200N2,WLE200N2SM,

WLE200N2-23,WLE200N5-23ESD,WLE350NX,WLE351NX,WLE250NX,WLE251NX,WLE350N5-25,WLE250N5-25,WLE350N2-25,WLE250N2-25,WLE900V5-27ESD,WLE600V5-27ESD,WLE900VX,WLE900VX-I, WLE900VX-I-SWI, WLE900VX-4.9, WLE900VX-I-4.9 WLE600VX, WLE600VX-I, WLE600VX-4.9, WLE600VX-I-4.9

WLE1200V2,WLE1200V5,WLE1200V5-18,WLE1200V5-20, WLE1200V5-23,WLE1216V5-23, WLE650V5-18, WLE650V5-18A, WLE650V5-18I WLE650V5-23, WLE650V5-25, WLE350N5-20J, WLE1216V5-20

WLE200-3G6, WLE250-900M, WLU200NX, WLU35, WLU201NX

POE 3AF 6A02 MODULE, PSE MODULE-5980-6A02, PSE-LTC4274A-6A01, PSE-LTC4274A-6A02, POE-LT4276B-6C01, POE-LT4276B-6C02, POE-MAX5974A-6B01, POE-MAX5974A-6B02





Report No. ECL01I070650001R1

Page 4 of 57

#### **Test Requested**

1.As specified by client, to screen Lead(Pb), Cadmium(Cd), Mercury(Hg), Chromium(Cr) and Bromine(Br) in the submitted sample(s) by XRF.

2.As specified by client, when screening results exceed the XRF screening limit in IEC 62321-3-1:2013 Ed.1.0, further use of chemical methods are required to test the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted samples.

3.As specified by client, to mitxed test Phthalates (Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP), Di-2-ethylhexyl phthalate(DEHP), Diisobutyl phthalate(DIBP)) in the submitted samples by risk analysis, When the mixed test results are larger than the mixed test limits, the materials of the project are tested separately.

**Photo(s) of the Product(s)** 

#### WIRELESS NETWORK MINI PCIE & PCI ADAPTER & WIRELESS ACCESS POINT









Report No. ECL01I070650001R1

Page 5 of 57

#### **Test Method**

#### A. Screening limits for regulated elements according to IEC 62321-3-1:2013 Ed.1.0(Unit: mg/kg)

	_		
Element	Polymers	Metals	Composite material
Pb	BL $\leq$ (700-3 $\sigma$ ) <x <(1300+3<math="">\sigma)</x>	BL $\leq$ (700-3 $\sigma$ ) $<$ X $<$ (1300+3 $\sigma$ )	BL $\leq$ (500-3 $\sigma$ ) $<$ X $<$ (1500+3 $\sigma$ )
10	≤OL	≤OL	≤OL
C4	BL $\leq$ (70-3 $\sigma$ ) $<$ X $<$ (130+3 $\sigma$ )	BL $\leq$ (70-3 $\sigma$ ) $<$ X $<$ (130+3 $\sigma$ )	$LOD < X < (150 + 3\sigma) \le OL$
Cd	≪OL	≪OL	LOD <a<(130+36) <="" ol<="" td=""></a<(130+36)>
Hg	BL $\leq$ (700-3 $\sigma$ ) $<$ X $<$ (1300+3 $\sigma$ )	BL $\leq$ (700-3 $\sigma$ ) $<$ X $<$ (1300+3 $\sigma$ )	BL $\leq$ (500-3 $\sigma$ ) $<$ X $<$ (1500+3 $\sigma$ )
ng	≪OL	≪OL	≪OL
Cr	BL≤(700-3σ)< X	BL≤(700-3σ)< X	BL≤(500-3σ)< X
Br	BL≤(300-3σ)< X	N/A	BL≤(250-3σ)< X

#### **B.** Mixed test limits for Phthalates

Test Item(s)	Mixed test limits(Unit: mg/kg)
Dibutyl phthalate(DBP)	X≥(1000-U <sub>95</sub> )/N
Benzylbutyl phthalate(BBP)	X≥(1000-U <sub>95</sub> )/N
Di-2-ethylhexyl phthalate(DEHP)	X≥(1000-U <sub>95</sub> )/N
Diisobutyl phthalate(DIBP)	X≥(1000-U <sub>95</sub> )/N

#### C. Chemical Test

Tested Item(s)	Test Method	Measured Equipment(s)	MDL	Limit
I 1 (DL)	IEC 62321-5:2013 Ed.1.0	ICP-OES	10 mg/kg	1000 //
Lead (Pb)	Refer to IEC 62321-5:2013 Ed.1.0	ICP-OES	10 mg/kg	1000 mg/kg
Codminm (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	10 mg/kg	100 may/lya
Cadmium (Cd)	Refer to IEC 62321-5:2013 Ed.1.0	ICP-OES	10 mg/kg	100 mg/kg
Manayayı (Ha)	IEC 62321-4:2013 Ed.1.0	ICP-OES	10 mg/kg	1000 ma/lra
Mercury (Hg)	Refer to IEC 62321-4:2013 Ed.1.0	ICP-OES	10 mg/kg	1000 mg/kg
Hexavalent	IEC 62321:2008 Ed.1 Annex C	UV-Vis	10 mg/kg	
Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis $0.10\mu g/cm^2 \qquad 1000$ (LOQ)		1000 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	100 mg/kg	1000 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	Polybrominated Diphenyl Ethers IEC 62321-6:2015		100 mg/kg	1000 mg/kg
Phthalates (DBP, BBP, DEHP, DIBP)	Phthalates DBP, BBP, DEHP, Refer to IEC 62321-8 CDV		50 mg/kg	1000 mg/kg for each

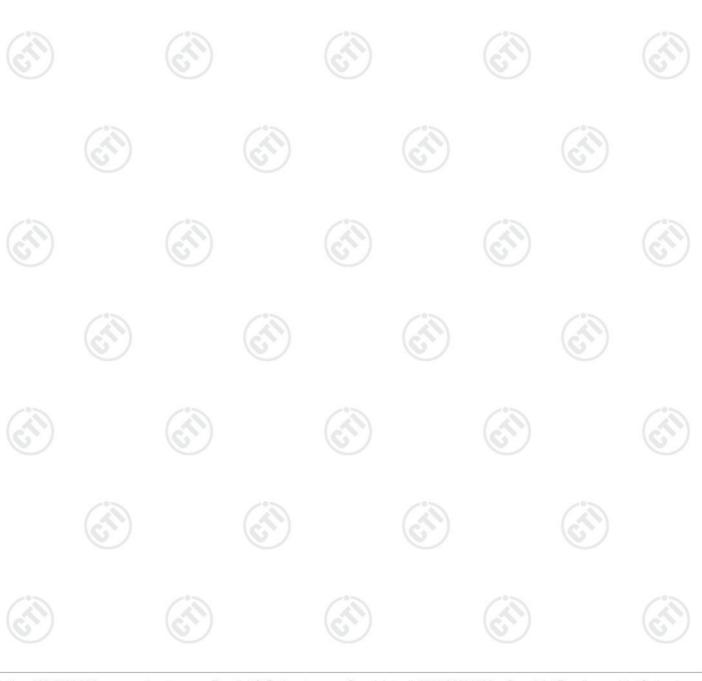


Report No. ECL01I070650001R1

#### Page 6 of 57

#### Remark:

- BL = Under the XRF screening limit
- OL = Above the screening limit
- X = The range of needing to do further testing
- $3\sigma$  = The reproducibility of analytical instruments
- N/A= Not applicable
- LOD = Detection limit
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm<sup>2</sup>
- $U_{95}$  = The uncertainty of the test item is 95%
- N =Sample number of mixed test





Report No. ECL01I070650001R1

Page 7 of 57

#### Test Result(s)

Sample No.	Sample  Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
(2)	( &	Pb	BL	/		Nov. 28, 2016
	0	Cd	BL	/		
1.1	Silvery metal	Hg	BL	/	PASS	
	-0-	Cr(Cr(VI))	BL	/		100
		Br(PBBs&PBDEs)	N/A		/	
		Pb	BL		1	Nov. 28, 2016
		Cd	BL	/		
1.2	White label with	Hg	BL	/	PASS	
	black printing	Cr(Cr(VI))	BL	/	C:	( )
	(6	Br(PBBs&PBDEs)	BL	/	((1)	(6)
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		
1.3	PCB	Hg	BL	_0-/	PASS	-0-
		Cr(Cr(VI))	BL			
		Br(PBBs&PBDEs)	IN	N.D.		
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		102.0
1.4	Yellow electronic	Hg	BL	/	PASS	(2
	component	Cr(Cr(VI))	BL	/		(6)
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		Nov. 28, 2016
		Cd	BL			
1.5	White electronic	Hg	BL		PASS	
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/	-0	Nov. 28, 2016
	6	Cd	BL	/		(4
1.6	Black electronic	Hg	BL	/	PASS	6
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL		1	Nov. 28, 2016
		Cd	BL	(6)		
1.7	Grey electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/	· ·	_0



Report No. ECL01I070650001R1

Page 8 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
2/		Pb	BL	/	C'S	Nov. 28, 2016
	(6	Cd	BL	/	((2))	(6.
1.8	Black electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	/		
	-0-	Br(PBBs&PBDEs)	BL	1		
		Pb	BL		/	Nov. 28, 2016
		Cd	BL	1/	1	6
1.9	Grey electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/	C:D	(2
·)	(6)	Pb	BL	/	(6)	Nov. 28, 2016
	3371.14	Cd	BL	/		
1.10	White electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	-0-1		-°>
	(2)	Br(PBBs&PBDEs)	BL		(	
		Pb	BL		1	Nov. 28, 2016
		Cd	BL	/		
1.11	Grey electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	/		
	(6	Br(PBBs&PBDEs)	BL	/	6,7	(0)
		Pb	BL	/		Nov. 28, 2016
	Dial data da da	Cd	BL	/		
1.12	Black electronic	Hg	BL		PASS	
	component	Cr(Cr(VI))	BL	(6)	(	
		Br(PBBs&PBDEs)	BL	1		
		Pb	BL	/		Nov. 28, 2016
	W/hite alenturais	Cd	BL	/	·	
1.13	White electronic component	Hg	BL	/	PASS	(65
	component	Cr(Cr(VI))	BL	/		(6)
		Br(PBBs&PBDEs)	BL	/		
	F. 18200	Pb	BL	/		Nov. 28, 2016
	Dino di settici	Cd	BL			
1.14	Blue electronic	Hg	BL	(G)	PASS	5)
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		





Report No. ECL01I070650001R1

Page 9 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
(2)	(6	Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		
1.15	Black electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL		/	
		Pb	BL	V //	/	Nov. 28, 2016
		Cd	BL	/		
1.16	Black electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	/	C:	()
	(6	Br(PBBs&PBDEs)	BL	/	(3)	(6)
		Pb	BL	/		Nov. 28, 2016
	Light yellow	Cd	BL	/		
1.17	electronic	Hg	BL		PASS	-0-
	components	Cr(Cr(VI))	BL		- (	
		Br(PBBs&PBDEs)	BL			
		Pb	BL	/		Nov. 28, 2016
	Light yellow	Cd	BL	/	PASS	2.0
1.18	electronic	Hg	BL	/		(2
	components	Cr(Cr(VI))	BL	/		(C)
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		Nov. 28, 2016
	(i)	Cd	BL			(3)
1.19	Black electronic	Hg	BL		PASS	(17)
	component	Cr(Cr(VI))	BL	/	1	
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/	-0-	Nov. 28, 2016
	D	Cd	BL	/		63
1.20	Black electronic	Hg	BL	/	PASS	(6)
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/	1	
		Pb	BL		1	Nov. 28, 2016
		Cd	BL	(3)	(	
1.21	Silvery electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	/	1	
		Br(PBBs&PBDEs)	BL	/	-0	



Report No. ECL01I070650001R1

Page 10 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
2/		Pb	BL	/	C'S	Nov. 28, 2016
	Light yellow	Cd	BL	/	((1)	( &
1.22	electronic	Hg	BL	/	PASS	
	components	Cr(Cr(VI))	BL	/		
	-0-	Br(PBBs&PBDEs)	BL	1		
		Pb	BL		/	Nov. 28, 2016
		Cd	BL		\	
1.23	Silvery soldering	Hg	BL	/	PASS	
	tin	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/	C:O	()
• )	(6	Pb	BL	/	(6)	Nov. 28, 2016
		Cd	BL	/		
2.1	Silvery metal	Hg	BL	/	PASS	
	·	Cr(Cr(VI))	BL			-02
	(2)	Br(PBBs&PBDEs)	N/A		1	
		Pb	BL			Nov. 28, 2016
		Cd	BL	/		
2.2	Silvery metal	Hg	BL	/	PASS	
	0	Cr(Cr(VI))	BL	/		CA.
	6	Br(PBBs&PBDEs)	N/A	/		(6)
		Pb	BL	/		Nov. 28, 2016
	XX71.14 . 1 . 1 . 1 . 1 . 1 . 1	Cd	BL	/		
2.3	White label with	Hg	BL		PASS	
	black printing	Cr(Cr(VI))	BL	(6)	(	(J.)
		Br(PBBs&PBDEs)	BL	1		
		Pb	BL	/		Nov. 28, 2016
	Matalasith and day	Cd	BL	/	·	
2.4	Metal with golden plating	Hg	BL	/	PASS	(2)
	praining	Cr(Cr(VI))	BL	/		0
	_	Br(PBBs&PBDEs)	N/A	/		
	53230	Pb	BL	/		Nov. 28, 2016
		Cd	BL		/	
2.5 V	White plastic	Hg	BL	(G)	PASS	57
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		





Report No. ECL01I070650001R1

Page 11 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
(2)	(8	Pb	BL	/	(3)	Nov. 28, 2016
	6	Cd	BL	/		
2.6	Metal with golden	Hg	BL	/	PASS	
	plating	Cr(Cr(VI))	BL	/		-0-
		Br(PBBs&PBDEs)	N/A	1	/	
	0	Pb	BL		1	Nov. 28, 2016
		Cd	BL	/		
2.7	PCB	Hg	BL	/	PASS	
		Cr(Cr(VI))	IN	N.D.	C:D	()
	(6	Br(PBBs&PBDEs)	IN	N.D.	(67)	(6)
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		
2.8	Black electronic	Hg	BL	-0-1	PASS	-0
	component	Cr(Cr(VI))	BL		(	
		Br(PBBs&PBDEs)	BL	1	,	
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/	PASS	_
2.9	Black electronic	Hg	BL	/		
	component	Cr(Cr(VI))	BL	/		(0)
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/° /		(3)
2.10	White electronic	Hg	BL	1	PASS	(2)
	component	Cr(Cr(VI))	BL	1		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/	100	Nov. 28, 2016
		Cd	BL	/		63
2.11	Black electronic	Hg	BL	/	PASS	6
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL		1	Nov. 28, 2016
		Cd	BL	(3)		
2.12	Brown electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/	· >	



Report No. ECL01I070650001R1

Page 12 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
2/		Pb	BL	/	(3)	Nov. 28, 2016
	Light yellow	Cd	BL	/	((1))	(c.
2.13	electronic	Hg	BL	/	PASS	
	components	Cr(Cr(VI))	BL	/	1	
	-0-	Br(PBBs&PBDEs)	BL			-0-
		Pb	BL		(	Nov. 28, 2016
		Cd	BL		\	
2.14	Silvery metal pin	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/	C'A	(2
·)	(6)	Pb	BL	/	(6)	Nov. 28, 2016
		Cd	BL	/		
2.15	Black body	Hg	BL	/	PASS	
	C*>	Cr(Cr(VI))	BL			· · ·
		Br(PBBs&PBDEs)	BL		(	
		Pb	BL			Nov. 28, 2016
	D1 1 1	Cd	BL	/		
2.16	Black electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	/		
	(6)	Br(PBBs&PBDEs)	BL	/	6	(0)
		Pb	BL	/		Nov. 28, 2016
	Day and starting	Cd	BL	/		
2.17	Brown electronic	Hg	BL		PASS	(3)
	component	Cr(Cr(VI))	BL	(6)	(	
		Br(PBBs&PBDEs)	BL	1		
		Pb	BL	/		Nov. 28, 2016
	White electronic	Cd	BL	/	0	
2.18	1.2	Hg	BL	/	PASS	(65
	component	Cr(Cr(VI))	BL	/		0
		Br(PBBs&PBDEs)	BL	/		
	5220	Pb	BL	/		Nov. 28, 2016
	Dlooll	Cd	BL			
2.19	Black electronic	Hg	BL	(G)	PASS	5)
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		





Report No. ECL01I070650001R1

Page 13 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
(2)	( c	Pb	BL	/	(5)	Nov. 28, 2016
		Cd	BL	/		
2.20	Silvery electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL		/	
	0	Pb	BL	//	1	Nov. 28, 2016
	Light yellow	Cd	BL	/		
2.21	electronic	Hg	BL	/	PASS	
	components	Cr(Cr(VI))	BL	/	C:	( )
	(6	Br(PBBs&PBDEs)	BL	/	(3)	(6)
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		
2.22	Silvery metal pin	Hg	BL	-0-1	PASS	· ·
		Cr(Cr(VI))	BL			
		Br(PBBs&PBDEs)	N/A	1		
		Pb	BL	/		Nov. 28, 2016
	G'1 11 1	Cd	BL	/		
2.23	Silvery soldering	Hg	BL	/	PASS	CA
	tin	Cr(Cr(VI))	BL	/		0
		Br(PBBs&PBDEs)	N/A	/		
		Pb	BL	/		Nov. 28, 2016
	Court I	Cd	BL	/ 1	,	(3)
2.24	Black electronic	Hg	BL		PASS	
	component	Cr(Cr(VI))	BL	/	1	
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/	-0-	Nov. 28, 2016
	n	Cd	BL	/		(3
2.25	Black electronic	Hg	BL	/	PASS	(6)
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL		1	Nov. 28, 2016
	Light yellow	Cd	BL		(	5
2.26	electronic	Hg	BL	/	PASS	
	components	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/	·	J-0;



Report No. ECL01I070650001R1

Page 14 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
2/		Pb	BL	/	C'S	Nov. 28, 2016
	( 6	Cd	BL	/	((1))	Dec. 26, 2016
3.1	Black plastic	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
	-0-	Br(PBBs&PBDEs)	IN	N.D.		10-
		Pb	BL		/	Nov. 28, 2016
		Cd	BL		\	6.
3.2	Metal with golden	Hg	BL	/	PASS	
	plating	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/	Cin	(2
·)	(6)	Pb	BL	/	(0,)	Nov. 28, 2016
		Cd	BL	/		
3.3	Black plastic	Hg	BL	/	PASS	
	·	Cr(Cr(VI))	BL	/		· -
		Br(PBBs&PBDEs)	IN	N.D.	(	
		Pb	BL			Nov. 28, 2016
	Metal with	Cd	BL	/		
3.4	silvery/gold	Hg	BL	/	PASS	
	plating	Cr(Cr(VI))	BL	/		CA
	(6)	Br(PBBs&PBDEs)	N/A	/	6)	(0)
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		
3.5	Silvery metal	Hg	BL	/° \	PASS	(3)
	(67)	Cr(Cr(VI))	BL		(	
		Br(PBBs&PBDEs)	N/A	/		
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/	-0-	_0
3.6	Black plastic	Hg	BL	/	PASS	(3
	6	Cr(Cr(VI))	BL	/		6
		Br(PBBs&PBDEs)	IN	N.D.		
	political and the second	Pb	BL	/		Nov. 28, 2016
	(2)	Cd	BL		1	
3.7	Black plastic	Hg	BL	(6)	PASS	5
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	IN	N.D.	7	





Report No. ECL01I070650001R1

Page 15 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
(4)	(6	Pb	BL	/		Nov. 28, 2016
	Metal with	Cd	BL	/		
3.8	silvery/gold	Hg	BL	/	PASS	
	plating	Cr(Cr(VI))	BL	/	(	-0.
		Br(PBBs&PBDEs)	N/A			
		Pb	BL	(V) //	/	Nov. 28, 2016
		Cd	BL	/		
3.9	Silvery metal	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/	Cil	( )
	(6)	Br(PBBs&PBDEs)	N/A	/	(3)	(6)
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		
3.10	Black plastic	Hg	BL	0-/	PASS	· ·
	(27)	Cr(Cr(VI))	BL		(	
		Br(PBBs&PBDEs)	IN	N.D.	\	
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		
3.11	Black plastic	Hg	BL	/	PASS	CA
	6	Cr(Cr(VI))	BL	/	6.7	(0)
		Br(PBBs&PBDEs)	IN	N.D.		
		Pb	BL	/		Nov. 28, 2016
	Metal with	Cd	BL	/°7	,	
3.12	silvery/gold	Hg	BL	(8)	PASS	
	plating	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/		
		Pb	BL	/	· ·	Nov. 28, 2016
	( )	Cd	BL	/		(23
3.13	Black plastic	Hg	BL	/	PASS	0
		Cr(Cr(VI))	BL	/		
	2.95	Br(PBBs&PBDEs)	IN	N.D.		100
		Pb	BL		/	Nov. 28, 2016
	Metal with	Cd	BL		(	5
	silvery/gold	Hg	BL	/	PASS	
	plating	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/	-02	-09



Report No. ECL01I070650001R1

Page 16 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
	Pb	BL	/	(3)	Nov. 28, 2016	
	( €	Cd	BL	/	((1))	(6.7
3.15	Silvery metal pin	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
	-0-	Br(PBBs&PBDEs)	N/A			-0-
		Pb	BL		(	Nov. 28, 2016
	March March	Cd	BL			
3.16	Metal with silvery	Hg	BL	/	PASS	
	plating	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/	C'A	()
	(6	Pb	BL	/	(0)	Nov. 28, 2016
	Metal with	Cd	BL	/		
3.17	silvery/gold	Hg	BL	/	PASS	
	plating	Cr(Cr(VI))	BL			-05
	Br(PBBs&PBDEs)	N/A		(		
		Pb	BL		,	Nov. 28, 2016
	36 (1 21 21	Cd	BL	/		Dec. 26, 2016
3.18	Metal with silvery	Hg	BL	/	PASS	
	plating	Cr(Cr(VI))	IN	N.D. <sup>▼</sup>		
	(6)	Br(PBBs&PBDEs)	N/A	/		6
		Pb	BL	/		Nov. 28, 2016
	Metal with	Cd	BL	/		
3.19	silvery/gold	Hg	BL	/°2/	PASS	
	plating	Cr(Cr(VI))	BL		(	(J.)
		Br(PBBs&PBDEs)	N/A	1		
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/	0	_
3.20	Black plastic	Hg	BL	/	PASS	(6
	0	Cr(Cr(VI))	BL	/		0
		Br(PBBs&PBDEs)	IN	N.D.		
	5925	Pb	BL	/		Nov. 28, 2016
	White help to the	Cd	BL		PASS	
3.21	White label with	Hg	BL			(i)
	black printing	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		





Report No. ECL01I070650001R1

Page 17 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
(L)	( &	Pb	BL	/	(60)	Nov. 28, 2016
		Cd	BL	/		0
3.22	White label with	Hg	BL	/	PASS	
	black printing	Cr(Cr(VI))	BL	1		
		Br(PBBs&PBDEs)	BL	1	/	
		Pb	BL			Nov. 28, 2016
		Cd	BL	/		
3.23	Metal with silvery	Hg	BL	/	PASS	
	plating	Cr(Cr(VI))	BL	/	C:D	( )
	(6	Br(PBBs&PBDEs)	N/A	/		(6)
_	Pb	BL	/		Nov. 28, 2016	
		Cd	BL	/		
3.24	Black plastic	Hg	BL	-0-1	PASS	-0
		Cr(Cr(VI))	BL			
		Br(PBBs&PBDEs)	IN	N.D.	,	
		Pb	BL	/		Nov. 28, 2016
	Cupreous metal	Cd	BL	/		
3.25		Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/	(C)	(0)
		Br(PBBs&PBDEs)	N/A	/		
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	· 1	1	
3.26	Black plastic	Hg	BL	(6)1)	PASS	
		Cr(Cr(VI))	BL	1	1	
		Br(PBBs&PBDEs)	IN	N.D.		
		Pb	BL	/	~°\	Nov. 28, 2016
	(2	Cd	BL	/		(3
3.27	Silvery metal	Hg	BL	/	PASS	0
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/		
		Pb	BL		/	Nov. 28, 2016
	Maral and a 21	Cd	BL	(3)	PASS	(5)
3.28	Metal with silvery	Hg	BL	/		
	plating	Cr(Cr(VI))	BL	/		
	-	Br(PBBs&PBDEs)	N/A	/	· ·	_0



Report No. ECL01I070650001R1

Page 18 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
2/		Pb	BL	/	C'S)	Nov. 28, 2016
	') (c	Cd	BL	/	((1)	
3.29	Black plastic	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
	-0-	Br(PBBs&PBDEs)	IN	N.D.		-0
		Pb	BL		(	Nov. 28, 2016
		Cd	BL	1	\	
3.30	Black plastic	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	IN	N.D.	Cin	()
·)	(6	Pb	BL	/	(6)	Nov. 28, 2016
	36 (1 21 2	Cd	BL	/		
3.31	Metal with silvery	Hg	BL	/	PASS	
	plating	Cr(Cr(VI))	BL			-02
		Br(PBBs&PBDEs)	N/A		(	
		Pb	BL		,	Nov. 28, 2016
	26.1.11	Cd	BL	/		
3.32	Metal with silvery	Hg	BL	/	PASS	
	plating	Cr(Cr(VI))	BL	/		G.
	(6)	Br(PBBs&PBDEs)	N/A	/	6)	6
		Pb	BL	/		Nov. 28, 2016
	Maril Maril	Cd	BL	/		
3.33	Metal with silvery	Hg	BL	/	PASS	
	plating	Cr(Cr(VI))	BL	(C) 1	(	(J.)
		Br(PBBs&PBDEs)	N/A	1		
		Pb	BL	/		Nov. 28, 2016
	Dia da minati a sociale	Cd	BL	/	0	
3.34	Black plastic with white printing	Hg	BL	/	PASS	(2)
	winte printing	Cr(Cr(VI))	BL	/		0
		Br(PBBs&PBDEs)	BL	/		
	5220	Pb	BL	/		Nov. 28, 2016
3.35 Silvery		Cd	BL		/	
	Silvery metal	Hg	BL	(6)	PASS	5°)
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/		





Report No. ECL01I070650001R1

Page 19 of 57

Sample	Sample	Tested Item(s)	XRF	Chemical Test	Conclusion	Sample Received/
No.	Description		Screening Test	(mg/kg)		Resubmitted Date
	(6)	Pb	BL	/	((2))	Nov. 28, 2016
		Cd	BL	/		
3.36	Black rubber	Hg	BL	/	PASS	
	-0	Cr(Cr(VI))	BL	1		0
		Br(PBBs&PBDEs) BL /				
		Pb	BL		\	Nov. 28, 2016
		Cd	BL	/		
3.37	Grey metal	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		(2
	(6)	Br(PBBs&PBDEs)	N/A	/	(6)	(6)
		Pb	BL	/		Nov. 28, 2016
	T 1 1 . 11	Cd	BL	/		
3.38	Light yellow	Hg	BL	-0-1	PASS	
	electrolysis paper	Cr(Cr(VI))	BL			
		Br(PBBs&PBDEs)	BL			
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		220
3.39	Grey metal	Hg	BL	/	PASS	
	(6	Cr(Cr(VI))	BL	/	6.	(0)
		Br(PBBs&PBDEs)	N/A	/		
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/ 1		
3.40.1	Silvery metal	Hg	BL	1	PASS	
		Cr(Cr(VI))	BL	1	1	
		Br(PBBs&PBDEs)	N/A	/		
		Pb	BL	/	-05	Nov. 28, 2016
	G	Cd	BL	/		
3.40.2	Silvery metal pin	Hg	BL	/	PASS	(6)
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/		
		Pb	BL		1	Nov. 28, 2016
3.41 Bla	(67)	Cd	BL	(37)	PASS	
	Black plastic	Hg	BL	/		
	•	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	IN	N.D.	-0	



Report No. ECL01I070650001R1

Page 20 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
2		Pb	BL	/	C'S	Nov. 28, 2016
	( &	Cd	BL	/		( %
3.42	Silvery metal	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
	-0-	Br(PBBs&PBDEs)	N/A	/		-0-
		Pb	BL		- /	Nov. 28, 2016
	(C)	Cd	BL		1	
3.43	Black rubber	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/	CONT.	()
-)	(6	Pb	BL	/	(0,)	Nov. 28, 2016
		Cd	BL	/		
3.44	Grey metal	Hg	BL	/	PASS	
	C*>	Cr(Cr(VI))	BL			~
(6		Br(PBBs&PBDEs)	N/A		(	
		Pb	BL			Nov. 28, 2016
	7.1. 11	Cd	BL	/		
3.45	Light yellow	Hg	BL	/	PASS	
	electrolysis paper	Cr(Cr(VI))	BL	/		CA
	(6)	Br(PBBs&PBDEs)	BL	/	6	(6)
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		
3.46	Grey metal	Hg	BL		PASS	
	(C))	Cr(Cr(VI))	BL	(C) 1	(	
		Br(PBBs&PBDEs)	N/A	1		
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/	-0	
3.47.1	Silvery metal	Hg	BL	/	PASS	(64
	6	Cr(Cr(VI))	BL	/		0
		Br(PBBs&PBDEs)	N/A	/		
	5220	Pb	BL	/		Nov. 28, 2016
		Cd	BL		1	
3.47.2	Silvery metal pin	Hg	BL	(6)	PASS	(S)
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/		





Report No. ECL01I070650001R1

Page 21 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
	(8	Pb	BL	/		Nov. 28, 2016
	0	Cd	BL	/		0
3.48	Black plastic with	Hg	BL	/	PASS	
	white printing	Cr(Cr(VI))	BL	/	=	
		Br(PBBs&PBDEs)	BL		1	(P)
	(C)	Pb	BL		/	Nov. 28, 2016
		Cd	BL	/		
3.49.1	Black resin	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		(3
	(6	Br(PBBs&PBDEs)	BL	/		(6)
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/	PASS	
3.49.2	Silvery metal pin	Hg	BL			-0
		Cr(Cr(VI))	BL			
		Br(PBBs&PBDEs)	N/A			
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		
3.50	Green lacquered	Hg	BL	/	PASS	
	wire	Cr(Cr(VI))	BL	/		(0)
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		Nov. 28, 2016
	( )	Cd	BL	~°~\		(3)
3.51	Blue lacquered	Hg	BL		PASS	(30)
	wire	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/	-0-	Nov. 28, 2016
	- L	Cd	BL	/		(3
3.52	Red lacquered	Hg	BL	/	PASS	(6)
	wire	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL		1	Nov. 28, 2016
		Cd	BL		PASS	
3.53 Black plastic with	_	Hg	BL	/		
	white printing	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/	· S	_0



Report No. ECL01I070650001R1

Page 22 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
	Pb	BL	/	C'S	Nov. 28, 2016	
	(e.	Cd	BL	/	((1)	(c.
3.54.1	Black resin	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL			-0-
		Pb	BL			Nov. 28, 2016
		Cd	BL			
3.54.2	Silvery metal pin	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/		(2)
·)	(6)	Pb	BL	/	(6)	Nov. 28, 2016
		Cd	BL	/		
3.55	Green lacquered wire	Hg	BL	/	PASS	
	wire	Cr(Cr(VI))	BL	-0-1		-°>
	(27)	Br(PBBs&PBDEs)	BL		(	
		Pb	BL			Nov. 28, 2016
	DI I I	Cd	BL	/		
3.56	Blue lacquered	Hg	BL	/	PASS	
	wire	Cr(Cr(VI))	BL	/		CA
	(6	Br(PBBs&PBDEs)	BL	/	(C.S)	(0)
		Pb	BL	/		Nov. 28, 2016
	5 11	Cd	BL	/		
3.57	Red lacquered	Hg	BL	/°.\	PASS	
	wire	Cr(Cr(VI))	BL	(6)1)	(	
		Br(PBBs&PBDEs)	BL	1		
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/	-0-	_0
3.58	Black plastic	Hg	BL	/	PASS	(23)
	0	Cr(Cr(VI))	BL	/		0
		Br(PBBs&PBDEs)	IN	N.D.		
	F-92-75	Pb	BL	/		Nov. 28, 2016
		Cd	BL		PASS	
3.59	Silvery metal	Hg	BL			5)
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/		





Report No. ECL01I070650001R1

Page 23 of 57

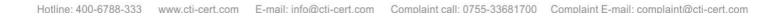
Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
(0)	(6	Pb	BL	/		Nov. 28, 2016
	0	Cd	BL	/		0
3.60	PCB	Hg	BL	/	PASS	
	-05	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL		ĺ	
		Pb	BL	//	PASS	Nov. 28, 2016
		Cd	BL	/		
3.61.1	Black electronic	Hg	BL	/		
	component	Cr(Cr(VI))	BL	/	C:	()
	(6	Br(PBBs&PBDEs)	BL	/	((1)	(6)
		Pb	BL	/		Nov. 28, 2016
	Light yellow	Cd	BL	/		
3.61.2	electronic	Hg	BL		PASS	-0-
	components	Cr(Cr(VI))	BL			
		Br(PBBs&PBDEs)	BL		\	
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		12.0
3.62	РСВ	Hg	BL	/	PASS	(2
		Cr(Cr(VI))	IN	N.D.		(0)
		Br(PBBs&PBDEs)	IN	N.D.		
		Pb	BL	/		Nov. 28, 2016
	Light yellow	Cd	BL			(3)
3.63	electronic	Hg	BL		PASS	(30)
	components	Cr(Cr(VI))	BL	/	1	
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/	-0-	Nov. 28, 2016
		Cd	BL	/		64
3.64	Black electronic	Hg	BL	/	PASS	6
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/	1	
		Pb	BL		/	Nov. 28, 2016
		Cd	BL		PASS	(3)
3.65	Silvery metal pin	Hg	BL	/		
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/	-0-	0



Report No. ECL01I070650001R1

Page 24 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
7		Pb	BL	/	(°)	Nov. 28, 2016
	Light yellow	Cd	BL	/	$\overline{(c^{(1)})}$	(c)
3.66	3.66 electronic	Hg	BL	/	PASS	
	components	Cr(Cr(VI))	BL	/		
-0.5	Br(PBBs&PBDEs)	BL			-0-	
		Pb	BL		(	Nov. 28, 2016
		Cd	BL	1/	\	
3.67	Black body	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/	Cin	(
• )	(6)	Pb	BL	/	(6)	Nov. 28, 2016
		Cd	BL	/		
3.68	Silvery metal pin	Hg	BL	/	PASS	
	C*>	Cr(Cr(VI))	BL			· · ·
		Br(PBBs&PBDEs)	N/A		(	
		Pb	BL		1	Nov. 28, 2016
		Cd	BL	/		Dec. 26, 2016
3.69	Brown electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	IN	N.D.		
	(6)	Br(PBBs&PBDEs)	BL	/	6	6
		Pb	BL	/		Nov. 28, 2016
	December 1 section of	Cd	BL	/		Dec. 26, 2016
3.70	Brown electronic	Hg	BL		PASS	
	component	Cr(Cr(VI))	IN	N.D.	(	(J.)
		Br(PBBs&PBDEs)	IN	N.D.		
		Pb	BL	/		Nov. 28, 2016
	Diagla ala stuania	Cd	BL	/	0	
3.71	Black electronic component	Hg	BL	/	PASS	(6
	Component	Cr(Cr(VI))	BL	/		0
		Br(PBBs&PBDEs)	BL	/		
	525	Pb	BL	/		Nov. 28, 2016
	Dischart de la const	Cd	BL		PASS	
3.72	Black electronic	Hg	BL			(i)
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		





Report No. ECL01I070650001R1

Page 25 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
110.	Description	Pb	BL	/ /		Nov. 28, 2016
	6	Cd	BL	/		6
3.73	Brown electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL		/	(II)
	(6)	Pb	BL		\	Nov. 28, 2016
		Cd	BL	/		
3.74	Black electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	/		-
	(c.	Br(PBBs&PBDEs)	BL	/		(63)
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/	PASS	ŕ
3.75	Black electronic	Hg	BL	_0-/		
	component	Cr(Cr(VI))	BL		(	
	Br(PBBs&PBDEs)	BL		,		
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		5,300
3.76	Black electronic	Hg	BL	/	PASS	(2
	component	Cr(Cr(VI))	BL	/	(0)	(C)
		Br(PBBs&PBDEs)	BL	/		
		Pb	OL	30140#		Nov. 28, 2016
		Cd	BL	/°3/		Dec. 26, 2016
3.77	Black electronic	Hg	BL	(637)	PASS	
	component	Cr(Cr(VI))	BL	/	1	
		Br(PBBs&PBDEs)	IN	N.D.		
		Pb	BL	/	-05	Nov. 28, 2016
	Light yellow	Cd	BL	/		64
3.78	electronic	Hg	BL	/	PASS	6
	components	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL		1	Nov. 28, 2016
		Cd	BL	1	PASS	
3.79	Black body	Hg	BL	/		
	_	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/	0	_0



Report No. ECL01I070650001R1

Page 26 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received Resubmitted Date
2/		Pb	BL	/	C'S	Nov. 28, 2016
	( &	Cd	BL	/	((1)	( &
3.80	Silvery metal pin	Hg	BL	/	PASS	0
		Cr(Cr(VI))	BL	/		
	-0-	Br(PBBs&PBDEs)	N/A	1		10-
		Pb	BL	1	/	Nov. 28, 2016
	Light yellow	Cd	BL	1	\	
3.81	electronic	Hg	BL	/	PASS	
	components	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/	C:D	
.)	(6	Pb	BL	/	(67)	Nov. 28, 2016
	DI I I I I	Cd	BL	/		
3.82	Black electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	-0-1		-02
	(2)	Br(PBBs&PBDEs)	BL		(	
		Pb	BL			Nov. 28, 2016
		Cd	BL	/		
3.83	Black body	Hg	BL	/	PASS	
	0	Cr(Cr(VI))	BL	/		G
	(6)	Br(PBBs&PBDEs)	BL	/	6)	6
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		
3.84	Silvery metal pin	Hg	BL	· /	PASS	
	$(c_{j,j})$	Cr(Cr(VI))	BL		(	(S)
		Br(PBBs&PBDEs)	N/A	/		
		Pb	OL	N.D.		Nov. 28, 2016
	W/hite alentura	Cd	BL	/	· ·	
3.85	White electronic	Hg	BL	/	PASS	(~
	component	Cr(Cr(VI))	BL	/		6
		Br(PBBs&PBDEs)	BL	/		
	52230	Pb	BL	/		Nov. 28, 2016
		Cd	BL		/	
3.86	Silvery metal pin	Hg	BL	(G)	PASS	(S)
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/		





Report No. ECL01I070650001R1

Page 27 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date	
(4)	(6	Pb	BL	/		Nov. 28, 2016	
		Cd	BL	/		0	
3.87	Black electronic	Hg	BL	/	PASS		
	component	Cr(Cr(VI))	BL	/	=		
		Br(PBBs&PBDEs)	BL		/		
	(0.)	Pb	BL		1	Nov. 28, 2016	
		Cd	BL	/		Dec. 26, 2016	
3.88	Brown electronic	Hg	BL	/	PASS		
	component	Cr(Cr(VI))	IN	N.D.	Cin .	( )	
	(6	Br(PBBs&PBDEs)	BL	/	((1)	(6)	
		Pb	BL	/		Nov. 28, 2016	
		Cd	BL	/			
3.89	Black electronic	Hg	BL		PASS	-0-	
	component	Cr(Cr(VI))	BL		- (		
		Br(PBBs&PBDEs)	BL				
	White electronic component	Pb	BL	/		Nov. 28, 2016	
		Cd	BL	/		2.0	
3.90		Hg	BL	/	PASS		
		Cr(Cr(VI))	BL	/	6)	(0)	
		Br(PBBs&PBDEs)	BL	/			
		Pb	BL	/		Nov. 28, 2016	
		Cd	BL	/°./	PASS	(3)	
3.91	Silvery electronic	Hg	BL				
	component	Cr(Cr(VI))	BL	/			
		Br(PBBs&PBDEs)	BL	/			
		Pb	BL	/	-0-	Nov. 28, 2016	
	D	Cd	BL	/		64	
3.92	Black electronic	Hg	BL	/	PASS	(6)	
	component	Cr(Cr(VI))	BL	/			
		Br(PBBs&PBDEs)	BL	/			
		Pb	BL		1	Nov. 28, 2016	
		Cd	BL	(6)	(		
3.93	Black electronic	Hg	BL	/	PASS		
	component	Cr(Cr(VI))	BL	/			
		Br(PBBs&PBDEs)	BL	/	· S	_0	



Report No. ECL01I070650001R1

Page 28 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received Resubmitted Date
2		Pb	OL	N.D.	C'S	Nov. 28, 2016
	( e	Cd	BL	/	((1))	Dec. 26, 2016
3.94	Black body	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
	-0	Br(PBBs&PBDEs)	IN	N.D.		-0-
		Pb	BL		/	Nov. 28, 2016
		Cd	BL		\	
3.95	Silvery metal pin	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/	C'A	
• )	(6)	Pb	BL	/	(6)	Nov. 28, 2016
	District states of	Cd	BL	/		
3.96	Black electronic	Hg	BL	/	PASS	
	component	Cr(Cr(VI))	BL	-0-/		·
		Br(PBBs&PBDEs)	BL		(	
		Pb	BL			Nov. 28, 2016
	D1 1 1 1 1	Cd	BL	/		
3.97	Black electronic component	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		0
	6	Br(PBBs&PBDEs)	BL	/	6)	6
		Pb	BL	/		Nov. 28, 2016
	Light yellow	Cd	BL	/		
3.98	electronic	Hg	BL	/° \	PASS	
	components	Cr(Cr(VI))	BL	(6)	(	
		Br(PBBs&PBDEs)	BL	1		
		Pb	BL	/		Nov. 28, 2016
	District and the second	Cd	BL	/	-05	
3.99	Black electronic	Hg	BL	/	PASS	(~
	component	Cr(Cr(VI))	BL	/		6
		Br(PBBs&PBDEs)	BL	/		
	5220	Pb	BL	/		Nov. 28, 2016
	Disabation :	Cd	BL		/	
3.100	Black electronic	Hg	BL		PASS	
	component	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		





Report No. ECL01I070650001R1

Page 29 of 57

Sample No.	Sample Description	Tested Item(s)	XRF Screening Test	Chemical Test (mg/kg)	Conclusion	Sample Received/ Resubmitted Date
110.	Description	Pb	BL	/ (mg/kg)		Nov. 28, 2016
	6	Cd	BL			11011 20, 2010
3.101	Black body	Hg	BL		PASS	
3.101	Black coay	Cr(Cr(VI))	BL	,		
		Br(PBBs&PBDEs)	BL		/	(1)
		Pb	BL		(	Nov. 28, 2016
		Cd	BL	/		, , ,
3.102	Silvery metal pin	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/	C'S)	/ 07
	( &	Br(PBBs&PBDEs)	N/A	/	((1))	(6)
/		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/		
3.103	Black electronic	Hg	BL	o-/	PASS	-0-
	component	Cr(Cr(VI))	BL		(	
		Br(PBBs&PBDEs)	BL		\	
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/	1	
3.104	Black body	Hg	BL	/	PASS	(2
	(6)	Cr(Cr(VI))	BL	/	(())	(6)
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		Nov. 28, 2016
		Cd	BL	/°3/		
3.105	Silvery metal pin	Hg	BL		PASS	(50)
		Cr(Cr(VI))	BL	1	1	
		Br(PBBs&PBDEs)	N/A	/		
		Pb	BL	/	-07	Nov. 28, 2016
	G.	Cd	BL	/		64
3.106	Black body	Hg	BL	/	PASS	(6)
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	1	1	Nov. 28, 2016
		Cd	BL	(6)	(	
3.107	Silvery metal pin	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/	0	J-03



Report No. ECL01I070650001R1

Page 30 of 57

Sample	Sample	Tooted Item(a)	XRF	Chemical Test	Conclusion	Sample Received/
No.	Description	Tested Item(s)	Screening Test	(mg/kg)	Conclusion	Resubmitted Date
		Pb	BL	/	CO.	Nov. 28, 2016
(5)	Silvery soldering tin	Cd	BL	/	PASS	(6)
3.108		Hg	BL	/		
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	N/A	/		

#### Mixed test results of Phthalates<sup>\*</sup>

Sample	Sample	Tested	Test Result	Conclusion <sup>▲</sup>	Sample Received/	
No.	Description	Item(s)	(mg/kg)	Concrusion	Resubmitted Date	
	W1 (4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	DBP	N.D.	PASS	Nov. 28, 2016	
1.2+1.3	White label with black printing	BBP	N.D.	PASS	Dec. 26, 2016	
+1.4	+PCB+Yellow electronic	DEHP	N.D.	PASS		
	component	DIBP	N.D.	PASS		
	1770 to 1	DBP	N.D.	PASS	Nov. 28, 2016	
1.5+1.6	White electronic component	BBP	N.D.	PASS	Dec. 26, 2016	
+1.7	+Black electronic component	DEHP	N.D.	PASS		
	+Grey electronic component	DIBP	N.D.	PASS		
		DBP	N.D.	PASS	Nov. 28, 2016	
1.8+1.1	Black electronic component+Blue	BBP	N.D.	PASS	Dec. 26, 2016	
4+1.15	electronic component	DEHP	N.D.	PASS	6	
	+Black electronic component	DIBP	N.D.	PASS		
	Light yellow electronic components	DBP	N.D.	PASS	Nov. 28, 2016	
1.17+1.	+Black electronic	BBP	N.D.	PASS	Dec. 26, 2016	
19+1.20	component+Black electronic	DEHP	N.D.	PASS	(6.5)	
	component	DIBP	N.D.	PASS		
		DBP	N.D.	PASS	Nov. 28, 2016	
1.21+2.	Silvery electronic component	BBP	N.D.	PASS	Dec. 26, 2016	
5+2.7	+White plastic	DEHP	N.D.	PASS	(2	
	+PCB	DIBP	N.D.	PASS	6	
		DBP	N.D.	PASS	Nov. 28, 2016	
2.9+2.1	Black electronic component+Black	BBP	N.D.	PASS	Dec. 26, 2016	
1+2.12	electronic component+Brown	DEHP	N.D.	PASS		
	electronic component	DIBP	N.D.	PASS	(67)	













Report No. ECL01I070650001R1

Page 31 of 57

Sample No.	Sample Description	Tested Item(s)	Test Result (mg/kg)	Conclusion <sup>▲</sup>	Sample Received/ Resubmitted Date
(4)	(25)	DBP	N.D.	PASS	Nov. 28, 2016
2.15+2.	Black body	BBP	N.D.	PASS	Dec. 26, 2016
18+2.19	+White electronic component	DEHP	N.D.	PASS	<del>-</del>
	+Black electronic component	DIBP	N.D.	PASS	
		DBP	N.D.	PASS	Nov. 28, 2016
3.1+3.3	Black plastic	BBP	N.D.	PASS	Dec. 26, 2016
4+3.36	+Black plastic with white printing	DEHP	N.D.	PASS	
	+Black rubber	DIBP	N.D.	PASS	
67	C.	DBP	N.D.	PASS	Nov. 28, 2016
3.38+3.	Light yellow electrolysis paper	BBP	N.D.	PASS	Dec. 26, 2016
48+3.49	+Black plastic with white printing	DEHP	N.D.	PASS	
.1	+Black resin	DIBP	N.D.	PASS	
	/*> /*·	DBP	N.D.	PASS	Nov. 28, 2016
3.50+3.	Green lacquered wire	BBP	N.D.	PASS	Dec. 26, 2016
51+3.52	+Blue lacquered wire	DEHP	N.D.	PASS	
	+Red lacquered wire	DIBP	N.D.	PASS	=
		DBP	N.D.	PASS	Nov. 28, 2016
3.60+3.	PCB+Black electronic	BBP	N.D.	PASS	Dec. 26, 2016
61.1+3.	component+PCB	DEHP	N.D.	PASS	6
62		DIBP	N.D.	PASS	
		DBP	N.D.	PASS	Nov. 28, 2016
3.67+3.	Black body	BBP	N.D.	PASS	Dec. 26, 2016
69+3.70	+Brown electronic component	DEHP	N.D.	PASS	(67)
	+Brown electronic component	DIBP	N.D.	PASS	
		DBP	N.D.	PASS	Nov. 28, 2016
3.71+3.	Black electronic component+Brown	BBP	N.D.	PASS	Dec. 26, 2016
73+3.77	electronic component+Black	DEHP	N.D.	PASS	(4
	electronic component	DIBP	N.D.	PASS	0
		DBP	N.D.	PASS	Nov. 28, 2016
3.79+3.	Black body+Black electronic	BBP	N.D.	PASS	Dec. 26, 2016
82+3.83	component+Black body	DEHP	N.D.	PASS	
		DIBP	N.D.	PASS	(62)





Report No. ECL01I070650001R1

Page 32 of 57

Sample No.	Sample Description	Tested Item(s)	Test Result (mg/kg)	Conclusion <sup>▲</sup>	Sample Received/ Resubmitted Date
(2,0)	(65)	DBP	N.D.	PASS	Nov. 28, 2016
3.85+3.	White electronic component	BBP	N.D.	PASS	Dec. 26, 2016
88+3.94	+Brown electronic component	DEHP	N.D.	PASS	
	+Black body	DIBP	N.D.	PASS	
205.2		DBP	N.D.	PASS	Nov. 28, 2016
3.97+3.	Black electronic component+Black	BBP	N.D.	PASS	Dec. 26, 2016
99+3.10	electronic component+Black body	DEHP	N.D.	PASS	
1		DIBP	N.D.	PASS	
To:		DBP	N.D.	PASS	Nov. 28, 2016
3.104+3	Black body+Black body	BBP	N.D.	PASS	Dec. 26, 2016
		DEHP	N.D.	PASS	
		DIBP	N.D.	PASS	

<sup>-</sup>A: As specified by client, the test of Phthalates (Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP), Di-2-ethylhexyl phthalate(DEHP), Diisobutyl phthalate(DIBP)) was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.

#### Remark:

- N.D. = Not Detected (<MDL or LOQ)
- MDL = Method Detection Limit
- mg/kg = ppm = parts per million
- /=Not tested
- N/A= Not applicable
- IN= Uncertain, Further chemical test
- BL = Under the screening limit
- OL = Further chemical test will be conducted while the result is above the screening limit.
- The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10μg/cm<sup>2</sup>.
   The coating is considered a non-Cr(VI) based coating.
- When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.
- \*= According to the client's statement, lead mainly comes from the high melting temperat ure type solders. Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead) is exempted from the restriction, with reference to EU Directive 2011/6 5/EU annex III Exemption Applications 7(a).



Report No. ECL01I070650001R1

Page 33 of 57

According to the client's statement, The sample material reference information see table:

Samp	ole No.	Sample No. in Reference Report					
1	.9			1.7	(°)		
1.	10		(6.75)	1.5	(67)		
1.	.11			1.7			
1.	.12			1.8			
1.	.13	/		1.5		100	
1.	16	(11)		1.8		(4)	
1.	18			1.17		(0)	
1.	22			1.17			
2	1			1.1			
	2			1.1	(1)		
2	3		(62)	1.2	(67)		
	6			2.4			
	2.8			1.8			
	10	7.		1.5		/0>	
	13			1.17		(2)	
\~.2 /	16			1.8		6	
2.	17			2.12			
2.	20			1.21			
	21			1.17	(2)		
2.	22		(0)	2.14	(0)		
	23			1.23			
2.	24			1.6			
2.	25	To.		1.20		13	
	26	(5)		1.7		(6.7)	
3	1.3			3.1			
	.6			3.1			
	.7			3.1	- O-		
	.8			3.4	(41)		
	10		(6)	3.1	(6)		
	11			3.1			
	12			3.4			
	13			3.1			
-	14			3.4		(6)	
	17			3.4			
	19			3.4			
3.							



Report No. ECL01I070650001R1

Page 34 of 57

Canada Na in Dafanana Danant	
(A) (A)	
	/05
3.1	
3.16	
3.16	
3.16	
3.1	
3.36	
3.37	
3.38	
3.39	100
3.40.1	(6.7)
3.40.2	
3.48	
3.49.1	
3.49.2	
3.50	
3.51	
3.52	
3.1	(1)
1.17	(67)
1.17	
1.8	
1.8	
	(6)
111	
	3.16 3.16 3.1 3.36 3.37 3.38 3.39 3.40.1 3.40.2 3.48 3.49.1 3.49.2 3.50 3.51 3.52 3.1 1.17 1.17 1.8 1.17 1.8 1.17 2.14



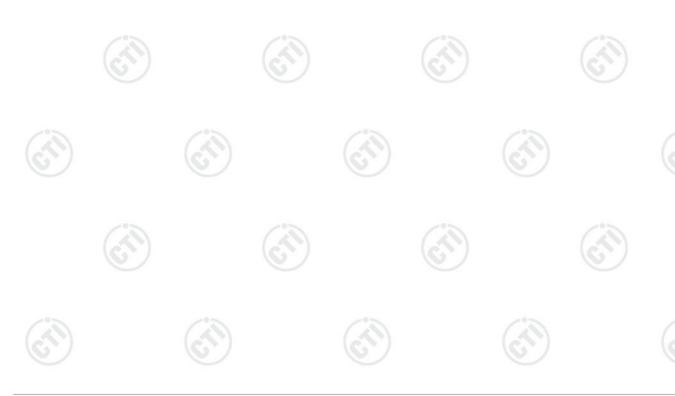
Report No. ECL01I070650001R1

Page 35 of 57

Sample No.		Sample No. in Refer	ence Report	
3.86		2.14		
3.87		1.20		
3.89		1.20	(0,7,2)	
3.90		1.5		
3.91		1.21		
3.92		1.8		-0-
3.93	(40)	1.8		(41)
3.95		2.14		(0)
3.96		1.8		
3.98		1.17		
3.100		1.8		
3.102		2.14	(0,)	
3.103		1.8		
3.105		2.14		
3.107		2.14		/°N
3.108	(6/67)	1.23		(27)
1.70.7	1000			

#### Note:

This testing report displaces the original report of No. ECL01I070650001, and the original one No. ECL01I070650001 was invalid since the date of this testing report released.



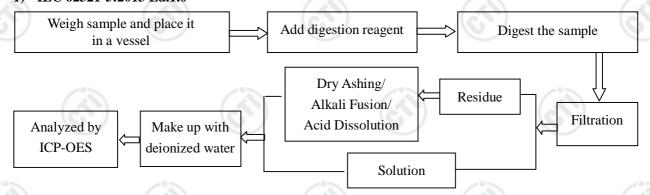


Report No. ECL01I070650001R1

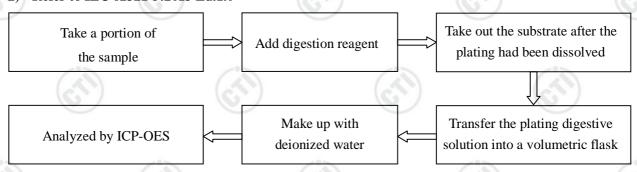
Page 36 of 57

#### **Chemical Test Process**

- 1. Lead (Pb), Cadmium (Cd)
- 1) IEC 62321-5:2013 Ed.1.0

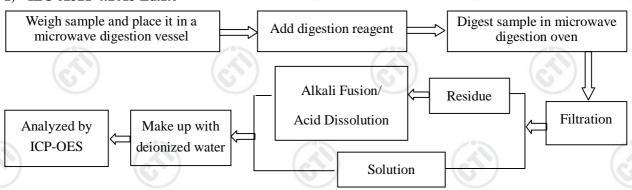


#### 2) Refer to IEC 62321-5:2013 Ed.1.0

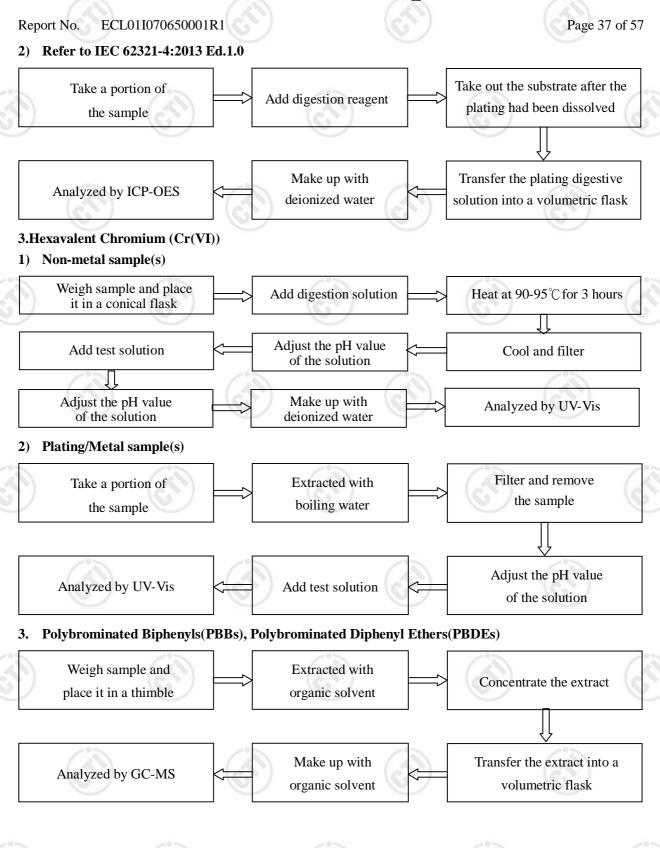


#### 2. Mercury (Hg)

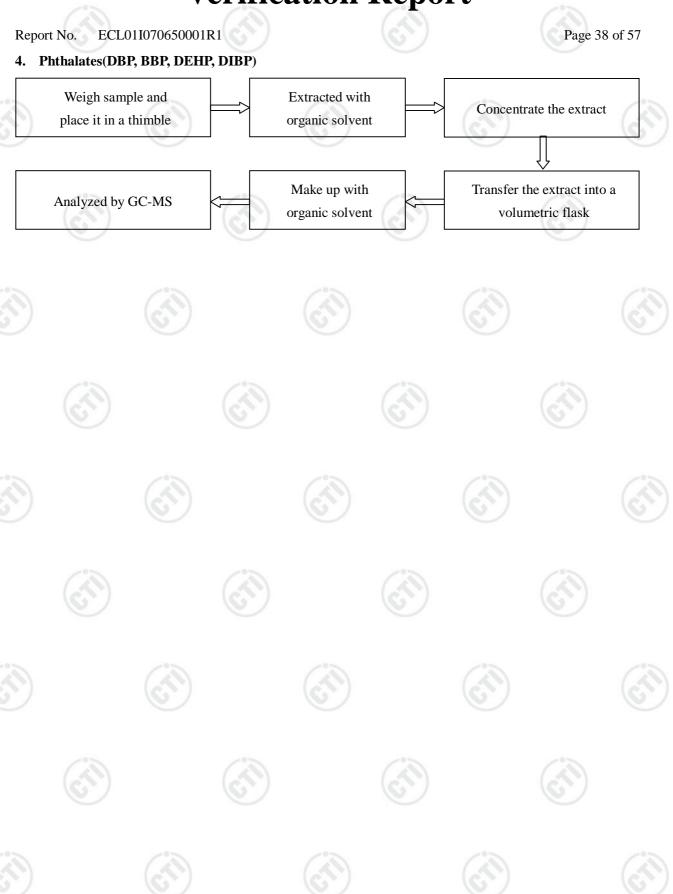
#### 1) IEC 62321-4:2013 Ed.1.0









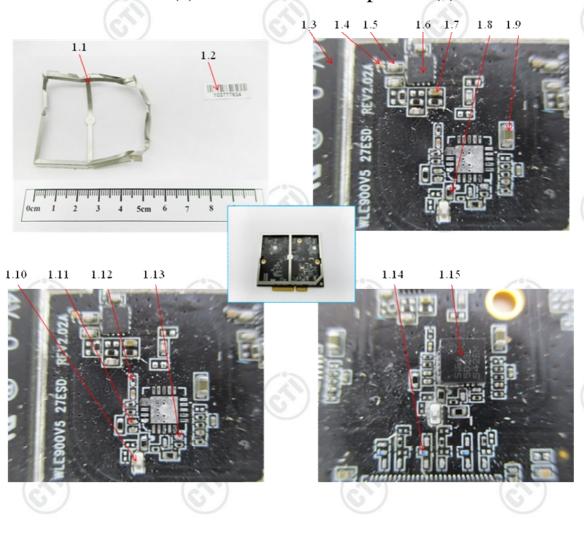




Report No. ECL01I070650001R1

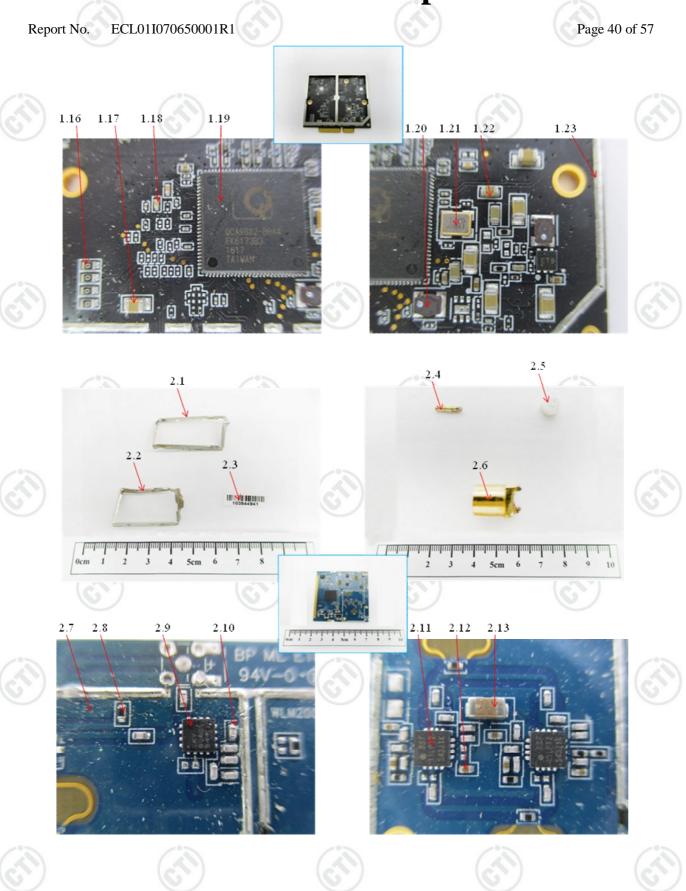
Page 39 of 57

#### Photo(s) of the tested component(s)









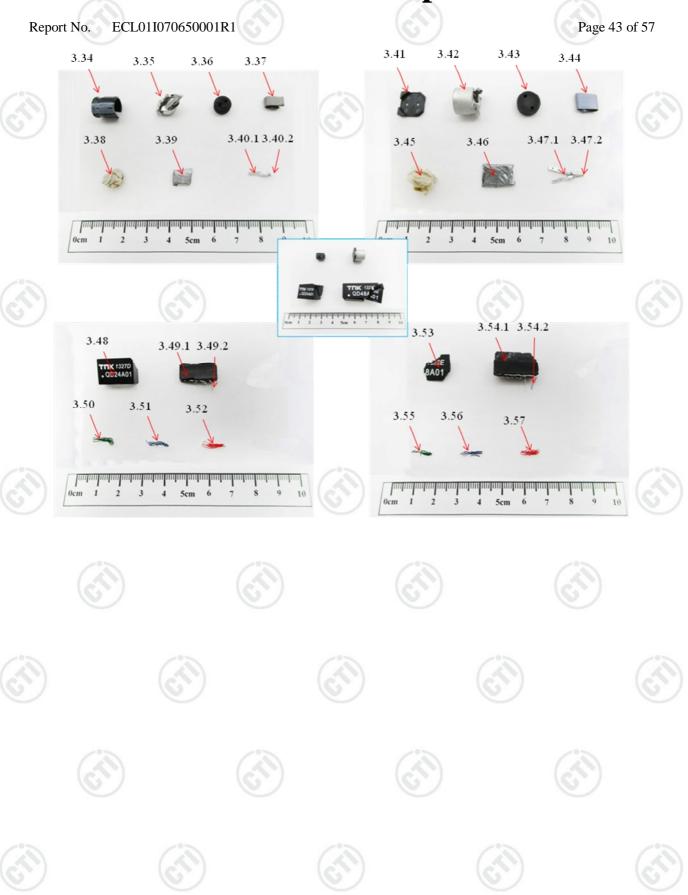
























Page 46 of 57



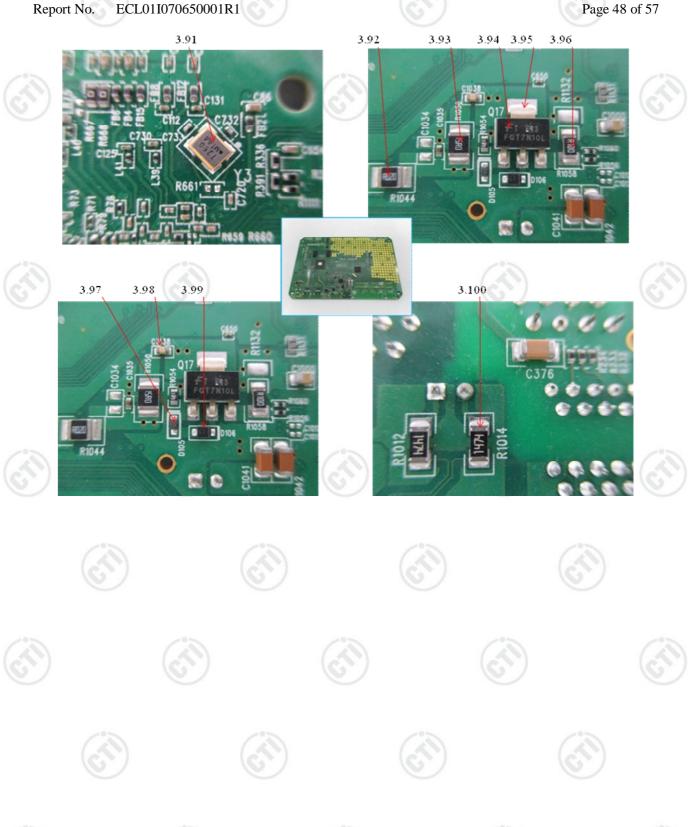








Page 48 of 57







Report No. ECL01I070650001R1

Page 49 of 57























































Report No. ECL01I070650001R1

Page 51 of 57

#### **Exempted Items of RoHS Directive**

In accordance with Directive 2011/65/EU as amended , there are 41 exemption items in Annex III of 2011/65/EU altogether.

	Exemption	Scope and dates of applicability	
1	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):		
1(a)	For general lighting purposes < 30 W: 5 mg	Expires on 31 December 2011; 3,5 mg may be used per burner after 31 December 2011 until 31 December 2012; 2,5 mg shall be used per burner after 31 December 2012.	
1(b)	For general lighting purposes ≥ 30 W and < 50 W: 5 mg	Expires on 31 December 2011; 3,5 mg may be used per burner after 31 December 2011.	
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	No limitation of use until 31 December 2011; 7 mg may be used per burner after 31 December 2011.	
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): 5 mg	Expires on 31 December 2011; 4 mg may be used per lamp after 31 December 2011.	
2(a)(2)	Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤ 17 mm (e.g. T5): 5 mg	Expires on 31 December 2011; 3 mg may be used per lamp after 31 December 2011.	
2(a)(3)	Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8): 5 mg	Expires on 31 December 2011; 3,5 mg may be used per lamp after 31 December 2011.	
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): 8 mg	Expires on 31 December 2011; 5 mg may be used per lamp after 31 December 2011.	
2(b)	Mercury in other fluorescent lamps not exceeding (per lamp):	and por many units of Becoming 2011.	
2(b)(1)	Linear halophosphate lamps with tube > 28 mm (e.g. T10 and T12): 10 mg	Expires on 13 April 2012.	



Report No.	ECL01I070650001R1	Page 52 of 57
------------	-------------------	---------------

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)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011.	
2(b)(4)	Lamps for other general lighting and special purposes (e.g. induction lamps).	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011.	
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)	No limitation of use until 31 December 2011; 3,5 mg may be used per lamp after 31 December 2011.	
3(b)	Medium length (> 500 mm and ≤ 1 500 mm)	No limitation of use until 31 December 2011; 5 mg may be used per lamp after 31 December 2011.	
3(c)	Long length (> 1500 mm)	No limitation of use until 31 December 2011; 13 mg may be used per lamp after 31 December 2011.	
4(a)	Mercury in other low pressure discharge lamps (per lamp).	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011.	
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	No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 December 2011.	
4(b)-II	155 W < P≤405 W	No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011.	
4(b)-III	P > 405 W	No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011.	
4(c)	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):		
4(c)-I	P ≤ 155 W	No limitation of use until 31 December 2011; 25 mg may be used per burner after 31 December 2011.	



Report No. ECL01I070650001R1 Page 53 of 57

4( ) 77	155 W . D < 405 W	NT II	1 2011
4(c)-II	$155 \text{ W} < P \le 405 \text{ W}$	No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 December 2011.	
4(c)-III	P > 405 W	No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011.	
4(d)	Mercury in High Pressure Mercury (vapour) lamps (HPMV).	Expires on 13 April 2015.	/
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 201	8.
(	(a) 20 mg per electrode pair + 0,3 mg per tube length in cm ,but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20°C;		
	(b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications.	Cin	
5(a)	Lead in glass of cathode ray tubes.		
5(b)	Lead in glass of fluorescent tubes not exceeding 0,2 % by weight.	<b></b>	(.)
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.		(6)
7(a)	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead).		(3)
7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications.		
	telecommunications.		



Report No.	ECL01I070650001R1	Page 54 of 57
------------	-------------------	---------------

		1 uge 3 1 01 3 /
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)-IV	Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors.	
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	May be used in spare parts for EEE placed on
12(a)	conduction module C-ring.	the market before 24 September 2010.
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 connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight.	Expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011.



Report No.	ECL01I070650001R1	Page 55 of 57
------------	-------------------	---------------

15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip	
1.0	packages.	T. 1.0.1.1.2212
16	Lead in linear incandescent lamps with silicate	Expires on 1 September 2013.
17	coated tubes.	
17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications.	
18(a)	Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as speciality lamps for diazoprinting reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr,Ba) <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> :Pb).	Expires on 1 January 2011.
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).	
19	Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact energy saving lamps (ESL).	Expires on 1 June 2011.
20	Lead oxide in glass used for bonding front and	Expires on 1 June 2011.
5)	rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCDs).	
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 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.	
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring.	
26	Lead oxide in the glass envelope of black light blue lamps.	Expires on 1 June 2011.
27	Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers.	Expired on 24 September 2010.





Report N	No. ECL01I070650001R1	(cri)	Page 56 of 5
29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC.		
30	Cadmium alloys as electrical/mechanical solder joints to electrical 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).	CII	
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.	Ci D	
36	Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display.	Expired on 1 July 2010.	(0)
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.		6
39	Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm 2 of light-emitting area) for use in solid state illumination or display systems.	Expires on 1 July 2014.	(FI)
40	Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment.	Expires on 31 December 2013.	
41	Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems,	Expires on 31 December 2018.	
	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	(FI)	



European Parliament and of the Council.





Report No. ECL01I070650001R1

Page 57 of 57

\*\*\* End of Report \*\*\*

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

