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**Applicant**: CLF LIGHTING B.V.

Address : HANDELSTRAAT 25 6851 EH HUISSEN

Sample Name : CLF Xena RGBW Par

Style/Item No. : CLF Xena RGBW Par, CLF Quadcolor Mini Par

Manufacturer : CLF LIGHTING B.V.

Sample Received Date : May 31, 2017
Testing Completed Date : June 22, 2017
Revise Date : July 18, 2017

**Test Requested**: As requested by client, to evaluate the compliance of the submitted sample

with the Directive 2011/65/EU and amendment directive 2015/863/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic

equipment.

**Test Method**: 1. Review was performed for the sample and the related Bill of Material

submitted by the Applicant.

2. a) To refer to the standard IEC 62321-3-1:2013: Screening by XRF

Spectroscopy.

b) Wet chemical test

1) to refer to IEC 62321-5: 2013, determine the Cadmium, Lead content by ICP-OES.

2) to refer to IEC 62321-4: 2013, determine the Mercury content by ICP-OES.

3) to refer to IEC 62321:2008 Ed.1 & IEC 62321-7-1:2015, determine the Hexavalent Chromium content by UV-VIS.

4) to refer to IEC 62321-6:2015, determine the Polybrominated Biphenyls and Polybrominated Diphenyl Ethers by GC-MS.

**Test Results**: Please refer to next page (s).





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#### Conclusion:

Basing on the test results obtained from the homogenous materials, the submitted sample **COMPLIES** with the requirements stated in the Annex II of RoHS Directive 2011/65/EU and amendment directive 2015/863/EU.

Signed for and on behalf of EMTEK (Dongguan) Co., Ltd.

Prepared by:

Kira Fu Report Engineer Reviewed by:

Carrie Zhang Supervisor Approved by:

Lab Director





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#### **Test Results:**

No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
A CANTELL		Pb	BL		
		Cd	BL		
1	Silver metal with black coating	Hg	BL	NA	Non comment
	ooding	Cr	BL		
		Br	NA	NA NA	
Wife EAV		Pb	BL		
		Cd	BL		
2	Silver metal with black coating	Hg	BL	NA	Non comment
	Couling	Cr	BL		
ALYTER ETAL		Br	NA		
ELENYER		Pb	BL		
Willet Ed	Silver metal with black coating	Cd	BL	NA.	Non comment
3		Hg	BL		
er y y ter fer		Cr	BL		
		Br	NA		
A VIETE		Pb	BL		
AFTER ALLE		Cd	BL		
4	Silver metal with black coating	Hg	BL	NA	Non comment
	ooganig	Cr	BL		
FEELVIEFE		Br	NA	NA NA NA	
VILLE FELVI		Pb	BL		
		Cd	BL		
5	Label	Hg	BĹ	NA	Non comment
		Cr	BL		
		Br	BL		
TE STATE		Pb	BL		
A TATE OF THE		Cd	BL		
6	Copper metal	Hg	BL	NA	Non comment
ALERT BY		Cr	BL		
EL CALLET		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
E E E VIE		Pb BL			
		Cd	BL		
7	White hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
E ELYLEE		Pb	BL		
ALE ELA		Cd	BL		
8	White hard plastic	Hg	BL	NA	Non comment
VILLE ELVI		Cr	BL		
		Br	BL		
NATE CELL		Pb	BL		
EL LINE	Silver metal with black coating	Cd	BL	NA NA	Non comment
9		Hg	BL		
ELECTIVATE OF		Cr	BL		
		Br	NA		
CHECK TON		Pb	BL	NA NA	
LEL VIETE		Cd	BL		
10	Silver metal with black coating	Hg	BL		Non comment
	oogaii g	Cr	BL		
		Br	NA		
ER VIET		Pb	BL		
ALTERETA VA		Cd	BL		
11	Silver metal with black coating	Hg	BL	NA	Non comment
	Ocaling	Cr	BL		
		Br	NA		
		Pb	BL		
Tel Fel Viles		Cd	BL	NA	
12	White hard plastic	Hg	BL		Non comment
The Bay		Cr	BL		
A VIET E		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
ET ELVIE		Pb	BL		
		Cd	BL		
13		Substances   EDXRF(1)   Testing(2) (mg/kg)	Non comment		
	County	Cr	BL		
		Br	NA	NA NA NA	
TELY LEFE		Pb	BL		
		Cd	BL		
14		Hg	BL	NA	Non comment
	Journa	Cr	BL		
		Br	NA		
MELET A		Pb	BL		
	Blue hard plastic	Cd	BL	NA NA	Non comment
15		Hg	BL		
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
16	White hard plastic	Hg	BL	NA	Non comment
		Cr	BL	NA  NA  NA  NA	
ALEE TO VIEW		Br	BL		
EN VIEW		Pb	BL		
		Cd	BL		
17	Transparent glass	Hg	BL	NA	Non comment
ALTER BY		Cr	BL		
		Br BL			
Vite a		Pb	BL		
Captal Ville		Cd	BL	NA NA	
18	Black soft plastic	Hg	BL		Non comment
Carlot State of State		Cr	BL		
VILLE E		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
	Pb	Pb	BL		
		Cd	BL		
19		Non comment			
	Jodania	Cr	EDXRF <sup>(1)</sup> Testing <sup>(2)</sup> (mg/kg)           BL         NA           BL         NA		
		Br	NA	NA NA NA NA	
TELY LEFT		Pb	BL		
		Cd	BL		
20		Hg	BL	NA	Non comment
ALE ELVA	Joannie	Cr	BL		
		Br	NA		
STATE TO		Pb	BL		
EL TELVI	Transparent hard plastic	Cd	BL		Non comment
21		Hg	BL		
ELECTIVE E		Cr	BL		
A VIETE		Br	BL		
CATE CATE		Pb	BL		
A VIETE		Cd	BL		
22	Silver metal with black coating	Hg	BL	NA	Non comment
A YELL	Godding	Cr	BL	NA  NA  NA  NA	
VITE ELV		Br	NA		
EL VIEL		Pb	BL		
A LIE E E LA		Cd	BL		
23	Silver metal with black coating	Hg	BL	NA	Non comment
Mark Car		Cr	BL		
		Br	NA		
N. C. L. C.		Pb	BL.		
		Cd	BL		
24	Silver metal with black coating	Hg	BL	NA	Non comment
Ser edy	Scanig	Cr	BL		
A VIET C		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
TELL ELVIE		Pb	BL		
		Cd	BL		
25	Silver metal with black coating	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA	Testing <sup>(2)</sup> (mg/kg)	
EL ELVITER		Pb	BL		
ALLE FERN		Cd	BL		
26	Silver metal with black coating	Hg	BL	NA	Non comment
NI TELEFOR		Cr	BL		
		Br	NA		
STATE LE		Pb	BL		
F ELVIE		Cd	BL	NA	Non comment
27	Silver metal with black coating	Hg	BL		
		Cr	BL		
		Br	NA		
VITER BY V		Pb	OL		As declared by client, the material should be exempted
FEEL VEEL		Cd	BL		
28	Copper metal	Hg	BL	Pb:25585	for lead content
		Cr	BL		requirement according to Annex
ALE ELANGE		Br	NA		clause 6(c).
FEATURET.		Pb	BL		
		Cd	BL		
29	Blush soft plastic	Hg	BL	NA	Non comment
LANGER SEV		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL	NA NA	
30	Silver metal with black coating	Hg	BL		Non comment
THE ENT	coding	Cr	BL		
en Viet		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
CE CELVIE		Pb BL	BL		
		Cd	BL		
31	Silver metal with black coating	Hg	BL	NA	Non comment
		Cr	BL		
ALTER ELLAN		Br	NA		
F G VIEFE		Pb	BL		
		Cd	BL		
32	Silver metal	Hg	BL	NA	Non comment
ALER ELA		Cr	BL		
		Br	NA		
STATE FEET		Pb	BL		
	White PCB	Cd	BL	NA NA	Non comment
33		Hg	BL		
TEEN YER		Cr	BL		
		Br	BL		
CELET VICE		Pb	BL	NA	Non comment
		Cd	BL		
34	Silver metal	Hg	BL		
ELYVEET E		Cr	BL		
		Br	NA	NA NA	
TEN VIEW		Pb	BL		
A THE FEEL OF		Cd	BL		
35	SMD resistor	Hg	BL	NA	Non comment
ALE TEN		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL	NA NA	
36	White hard plastic	Hg	BL		Non comment
THE BUTTON		Cr	BL		
SALVIET S		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
CH ELY LE		Pb	BL		
		Cd	BL		
37	SMD capacitor	Cd         BL           Hg         BL           Cr         BL           Br         BL           Pb         BL           Cd         BL           MD diode         Hg         BL           NA         Cr         BL           Br         BL         NA           Cd         BL         NA           cr         BL         NA	Non comment		
		Cr	BL		
ALLE ELLA		Br	BL		
FERVIETE ELVIEFE		Pb	BL		
		Cd	BL		
38	SMD diode	Hg	BL	NA	Non comment
ALTER EN		Cr	BL		
		Br	BL		
EL VIEFEFE		Pb	BL		
F ELVIE	Transparent hard plastic	Cd	BL	NA.	Non comment
39		Hg	BL		
		Cr	BL		
		Br	BL		
VIETEL VI		Pb	BL		
ELYVER E		Cd	BL		
40	Silver metal	Hg	BL	NA NA	Non comment
HELY TELL		Cr	BL		
		Br	NA		
FEET VIET		Pb	BL		
		Cd	BL		
41	SMD IC	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL	NA	
42	Silver metal	Hg	BL		Non comment
A SECTION		Cr	BL		
ed Viet		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
TELYLER E		Cd	BL		
43	Black solid	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL	Testing <sup>(2)</sup> (mg/kg)	
E TO VIETE		Pb	BL		
ALE EN		Cd	BL		
44	Copper metal	Hg	BL	NA	Non comment
ALLE ELY		Cr	BL		
		Br	NA		
er viter er v		Pb	BL		
THE BUYE		Cd	BL		Non comment
45	Beige hard plastic	Hg	BL	NA	
		Cr	BL		
		Br	BL		
VIETER VIE		Pb	BL		
TENTIFE E		Cd	BL		
46	Silver metal	Hg	BL	NA	Non comment
FELY VIEW		Cr	BL		
		Br	NA	NA  NA  NA  NA	
ELVIEL		Pb	BL		
ALIE ETA		Cd	BL		
47	Transparent soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
CALLAN YOU		Br	BL		
		Pb	BL		
CART OF THE		Cd	BL	NA	
48	Yellow LED	Hg	BL		Non comment
Age and		Cr	BL		
A VIET E		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
49	Silver metal with black coating	Hg	BL	NA	Non comment
	ooding	Cr	BL		
		Br	NA	Testing <sup>(2)</sup> (mg/kg)	
EL LA VIELE		Pb	BL		
		Cd	BL		
50	Beige paper	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
A A THE ET A		Pb	BL		
	Silver metal	Cd	BL		Non comment
51		Hg	BL		
A E E A VIET		Cr	BL		
ELY VEFFE		Br	NA		
VIET ELVIE		Pb	BL		
		Cd	BL		
52	Silver metal	Hg	BL	NA	Non comment
ELY/VEF		Cr	BL		
VILLE ELVI		Br	NA		
FERNALE		Pb	BL		
A A THE LET A		Cd	BL		
53	Black soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
a Viete		Pb	BL		
		Cd	BL		
54	Grey metal	Hg	BL	NA	Non comment
Ker edy		Cr	BL		
ed Viet		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
CAN LEFT		Cd	BL		
55	Silver metal	Hg	BL	NA	Non comment
		Substances   EDXRF(1)   Testing(2) (mg/kg)     Pb			
		Br	NA	NA  NA  NA  NA	
TELYLER E		Pb	BL		
VILLE EN VI		Cd	BL		
56	Black hard plastic	Hg	BL	NA	Non comment
VIEFER V		Cr	BL		
		Br	BL	NA 	
ALECENA LIEUTENA		Pb	BL		
	Silver metal with black coating	Cd	BL	NA	Non comment
57		Hg	BL		
		Cr	BL		
		Br	NA		
CALLEY TO THE		Pb	BL		
		Cd	BL		
58	Silver metal with black coating	Cr         BL           Br         NA           Pb         BL           Cd         BL           Hg         BL           NA	Non comment		
		Cr	BL	NA NA NA	
		Br	NA		
ENVIEW		Pb	BL		
VIET ELV		Cd	BL		
59	White hard plastic	Hg	BL	NA	Non comment
Y LEFT EN		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL	NA NA	
60	Silver metal	Hg	BL		Non comment
STATE OF STA		Cr	BL		
Willet &		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
61	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
E ELYTEL		Pb	BL		
		Cd	BL		
62	Silver metal	Hg	BL	NA	Non comment
Y TELEVET		Cr	BL		
		Br	NA		
A THE LET		Pb	BL		
E ELVITE	Black soft plastic with silver printing	Cd	BL	NA	Non comment
63		Hg	BL		
		Cr	BL		
		Br	BL		
VIETE EN		Pb	BL		
		Cd	BL		
64	Black hard plastic	Hg	BL	NA NA	Non comment
TELY VET		Cr	BL	NA	
		Br	BL		
FERTYLER		Pb	BL		
A THE LEAD		Cd	BL		
65	Label	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL.		
		Cd	BL	NA Non cor	
66	Yellow soft plastic	Hg	BL		Non comment
Car and		Cr	BL		
ANGE E		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
67	Blue soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL	NA NA	
ELANTER E		Pb	BL		
		Cd	BL		
68	Black soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
E	Red soft plastic	Cd	BL		Non comment
69		Hg	BL	NA.	
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
70	Black solid	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
71	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br N	NA		
		Pb	BL		
		Cd	BL	NA	
72	SMD IC	Hg	BL		Non comment
The service		Cr	BL		
		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
73	SMD resistor	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
F ELY LIEFE		Pb	BL		
VILLE FERVI		Cd	BL		
74	Green PCB	Hg	BL		Non comment
		Cr	BL		
		Br	X	NA NA	
STATELER STATE		Pb	BL		
		Cd	BL		Non comment
75	Silver metal	Hg	BL	NA	
		Cr	BL		
		Br	NA		
TELET TO		Pb	BL		
		Cd	BL		
76	SMD capacitor	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL	NA  PBBs:ND PBDEs:ND  NA	
EL VIEL A		Pb	BL		
		Cd	BL		
77	SMD diode	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
A VIET OF		Pb	BL		
		Cd	BL		
78	Silver metal	Hg	BL	NA	Non comment
THE CANE		Cr	BL		
Willet &		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
79	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL	Testing <sup>(2)</sup> (mg/kg)	
FERNIEFE		Pb	BL		
		Cd	BL		
80	Copper metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
er Viter Egy		Pb	BL		
FER BLANE	Silver metal	Cd	BL		Non comment
81		Hg	BL		
		Cr	BL		
		Br	NA		
VIET EN VER		Pb	BL		
		Cd	BL		
82	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
83	White hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
84	Silver metal	Hg	BL	NA	Non comment
The second		Cr	BL		
ANTES O		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
THE ENTY		Pb	BL		
TO VICE TO		Cd	BL		
85	Gun metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA	NA NA NA Pb:31340	
FERNIELE BANKELE		Pb	BL		
		Cd	BL		
86	Silver metal with black coating	Hg	BL	NA	Non comment
		Cr	BL	NA	
		Br	NA		
TANKETE A		Pb	BL		
E E E E		Cd	BL		Non comment
87	Silver metal with black coating	Hg	BL	NA	
		Cr	BL	NA NA Pb:31340	
		Br	NA		
VILLE TELVICE		Pb	OL		As declared by client, the materia should be exempted
		Cd	BL		
88	Copper metal	Hg	BL	Pb:31340	for lead content
		Cr	BL		requirement according to Annex
		Br	NA		clause 6(c).
FELLY VIEW		Pb	BL		
ALEE EAN		Cd	BL		
89	Copper metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL.		
KARANYA TARANYA		Cd	BL	NA NA	
90	White hard plastic	Hg	BL		Non comment
TE BENY		Cr	BL		
A VIET E		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
ALLEY EX		Cd	BL		
91	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA	Testing <sup>(2)</sup> (mg/kg)	
ELY VIETE		Pb	BL		
VIET EN		Cd	BL		
92	Silver metal with black coating	Hg	BL	NA	Non comment
THE ET A	ocating	Cr	BL		
		Br	NA		
VIET E		Pb	BL		
EL LINE		Cd	BL	NA NA NA	Non comment
93	Silver metal with black coating	Hg	BL		
	Southing	Cr	BL		
ALEE EE V		Br	NA		
EFERTAL S		Pb	BL		Non comment
A THE E		Cd	BL		
94	Silver metal with black coating	Hg	BL	NA	
ELY TELE	Couring	Cr	BL		
ALEE ELV		Br	NA	NA  NA  NA  NA	
ELY VIEW		Pb	BL		
VILLE ELV		Cd	BL		
95	Transparent hard plastic	Hg	BL	NA	Non comment
THE ELL		Cr	BL		
		Br	BL		
With the		Pb	BL		
effety v		Cd	BL		
96	Silver metal with black coating	Hg	BL	NA	Non comment
E E E VIE	coding	Cr	BL		
Wite te		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
97	White hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL	NA NA NA	
FERNIEFE		Pb	BL		
		Cd	BL		
98	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
er Viter Egy		Pb	BL		
	Silver metal	Cd	BL		Non comment
99		Hg	BL		
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
100	Silver metal	Hg	BL	NA NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
101	Silver metal	Hg	BL	NA	Non comment
	Cr BL				
		Br	NA		
A VIET OF		Pb	BL		
		Cd	BL		
102	Label	Hg	BL	NA	Non comment
		Cr	BL		
A VIET CO		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
THE THAT		Pb	BL		
ACT VITE A		Cd	BL		
103	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
EL VIET		Pb	BL		
		Cd	BL		
104	Transparent hard plastic	Hg	BL	NA	Non comment
ALTER EN		Cr	BL		
		Br	BL		
A TELEFE		Pb	BL		
F ELVIE		Cd	BL		Non comment
105	Silver metal	Hg	BL	NA	
		Cr	BL		
TELY LEFE		Br	NA		
VIETE EN		Pb	BL	NA	
		Cd	BL		Non comment
106	Silver metal	Hg	BL		
		Cr	BL		
		Br	NA		
FELLY VIE		Pb	BL		
A VIETE		Cd	BL		
107	White hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
WEEF OY		Cd	BL	NA -	
108	Black soft plastic with silver printing	Hg	BL		Non comment
Let Edy	printing	Cr	BL		
ed Viet		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
109	SMD capacitor	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL	NA NA NA NA	
FERNIEFE P		Pb	BL		
		Cd	BL		
110	SMD resistor	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL	NA.	Non comment
111	SMD triode	Hg	BL		
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
112	SMD IC	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
113	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
A VARAGE A		Pb	BL		
		Cd	BL		
114	Green PCB	Hg	BL		Non comment
Ter edy		Cr	BL	DECIND	
ANIET E		Br	X		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
115	SMD diode	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
FERNIEFE		Pb	BL		
		Cd	BL		
116	Grey soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
STATE E		Pb	BL		
	Black soft plastic	Cd	BL		Non comment
117		Hg	BL	NA NA	
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
118	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA	NA NA NA	
EL VIET E		Pb	BL		
		Cd	BL		
119	Black solid	Hg	BL	NA	Non comment
	Cr BL				
		Br	BL		
		Pb	BL		
		Cd	BL		
120	Silver metal	Hg	BL	NA	Non comment
CONTRACTOR OF		Cr	BL		
A VIET S		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
EF ELVIE		Pb	BL		
TELY LIET EN		Cd	BL		
121	Copper metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
F G VIEFE		Pb	BL		
		Cd	BL		
122	Black solid	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
STATE ELA		Pb	BL		
E EL ELVI	Black solid with brown printing	Cd	BL	NA NA	Non comment
123		Hg	BL		
TELEFORY TELEF		Cr	BL		
		Br	BL		
VIETERALIA GENERALIA		Pb	BL	NA NA	
FERNATE E		Cd	BL		Non comment
124	Copper metal	Hg	BL		
		Cr	BL		
VITE E E		Br	NA	NA NA NA	
FER LY LEE		Pb	BL		
ALTER EN		Cd	BL		
125	Copper metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL.		
KEEP ON		Cd	BL	NA No	
126	Brown solid with black printing	Hg	BL		Non comment
Mark and Mark	Piniting	Cr	BL		
ANTER S		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
127	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
F ELY VIETE		Pb	BL		
		Cd	BL		
128	Beige hard plastic	Hg	BL	NA	Non comment
VIET EFF		Cr	BL		
		Br	BL		
SAN LEFE		Pb	BL		
	Green solid	Cd	BL	NA NA	Non comment
129		Hg	BL		
EFFEVILLE		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
130	Blue solid with black printing	Hg	BL	NA	Non comment
FERNIEL C	pinalig	Cr	BL		
		Br	BL		
EL VIEL S		Pb	BL		
		Cd	BL		
131	Blue solid with black printing	Hg	BL	NA	Non comment
	Pollwing.	Cr	BL		
		Br	BL		
STEEL S		Pb	BL		
		Cd	BL		
132	Beige hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
Willet &		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
ELEVILE FERVIE		Pb	BL		
		Cd	BL		
133	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
ALTER TO A		Br	NA	Testing <sup>(2)</sup> (mg/kg)	
ELY LEFE		Pb	BL		
		Cd	BL		
134	Silver foil	Hg	BL	NA	Non comment
A THE LET A		Cr	BL		
		Br	NA		
STATE FEET		Pb	+ BL		
EL VILLE	Label	Cd	BL		Non comment
135		Hg	BL	NA 	
		Cr	BL		
		Bř	BL		
THE ENTY		Pb	BL		Non comment
TATELE E		Cd	BL		
136	Green solid	Hg	BL	NA	
ELYLER E		Cr	BL		
		Br	BL	NA NA NA	
ER VIET		Pb	BL		
A THE ELL		Cd	BL		
137	Yellow hard plastic with grey printng	Hg	BL	NA	Non comment
	9,9, pilling	Cr BL			
		Br	BL		
N. C. C. C.		Pb	BL		
CET OF Y		Cd	BL	NA NA	
138	Brown hard plastic	Hg	BL		Non comment
Ser Edy		Cr	BL		
Night of		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
139 E	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
FERNIEFE		Pb	BL		
		Cd	BL		
140	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
	Silver metal	Cd	BL		Non comment
141		Hg	BL	NA NA	
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
142	Green solid	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
EL LY LEE LE		Pb	BL		
		Cd	BL		
143	Copper metal	Hg	BL	NA	Non comment
		Cr	Cr BL		
		Br	NA		
		Pb	BL		
		Cd	BL	NA NA	
144	Red metal	Hg	BL		Non comment
The state of the		Cr	BL		
A Light Co		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
LIET ET VIET		Pb	BL		
		Cd	BL		
145	Green soft plastic with silver printing	Hg	BL	NA	Non comment
	Silver printing	Cr	BL		
		Br	BL		
EL CALLER		Pb	BL		
ALLER EN A		Cd	BL		
146	Purple soft plastic with silver printing	Hg	BL	NA	Non comment
	olivoi piinting	Cr	BL		
		Br	BL		
CANTEL CON		Pb	BL		Non comment
THE ELVI	Silver metal	Cd	BL		
147		Hg	BL	NA	
		Cr	BL		
		Br	NA		
Vite Februsia		Pb	BL	NA NA	Non comment
		Cd	BL		
148	Silver metal	Hg	BL		
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
149	White soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL	NA	
150	Label	Hg	BL		Non comment
King and King		Cr	BL		
ta Viet		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
VIET ELVI		Pb	BL		
		Cd	BL		
151	Black soft plastic with silver printing	Hg	BL	NA	Non comment
	Pilling	Cr	BL		
		Br	BL		
ELLY LEE		Pb	BL		
VIET EN		Cd	BL		
152	Label	Hg	BL	NA	Non comment
Y TEEFER S		Cr	BL		
		Br	BL		
A A THE LEA		Pb	BL		Non comment
E ELYNTE	Yellow soft plastic	Cd	BL	NA	
153		Hg	BL		
TELEVILLE		Cr	BL		
A LEE LEE		Br	BL		
VIETE ELY		Pb	BL	NA	Non comment
ELLY LEFE		Cd	BL		
154	Black solid with silver coating	Hg	BL		
ELY VIET	coating	Cr	BL		
ALE CELVY		Br	BL		
FE TYLE		Pb	BL		
MANAGERA MEREKAN		Cd	BL		
155	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
A CONTRACTOR		Br	NA		
a Victoria		Pb	BL		
Keffer of V		Cd	BL	NA NA	
156	Black solid	Hg	BL		Non comment
A BANK		Cr	BL		
er Viet		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
TEAT ENVIOLE		Pb	BL		
TELY LEFT EN		Cd	BL		
157	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
TENTEL E		Pb	BL		
THE FEET		Cd	BL		
158	Copper metal	Hg	BL	NA	Non comment
VIET ET V		Cr	BL		
TEL TITLE		Br	NA		
CANTEL CAN	Copper metal	Pb	BL		Non comment
ELECTIVIET CONTRACT		Cd	BL		
159		Hg	BL	NA	
		Cr	BL		
		Br	NA		
VIETE ENV		Pb	BL	NA -	Non comment
STATE OF		Cd	BL		
160	Silver metal	Hg	BL		
ENTITE E		Cr	BL		
VITE ELY		Br	NA		
TEL VIET		Pb	BL		
A VIETERA		Cd	BL		
161	Silver metal with black coating	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL.		
KARADAY TARAKAYA	Transparent hard plastic	Cd	BL	NA NA	
162	with black coating/silver	Hg	BL		Non comment
Age and	printing	Cr	BL		
AVIET E		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
CHELLINIE		Pb	BL		
		Cd	BL		
163	Silver metal with black coating	Hg	BL	NA	Non comment
	ooding	Cr	BL		
		Br	NA		
F G VIEF		Pb	BL		
		Cd	BL		
164	Silver metal with black coating	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
ALLE ELA		Pb	BL		
F EN THE	White hard plastic	Cd	BL		Non comment
165		Hg	BL	NA	
TELET AL		Cr	BL		
		Br	BL		
VIET ELVI		Pb	OL	Pb:25777	As declared by client, the materia should be exempte
		Cd	BL		
166	Copper metal	Hg	BL		for lead content
		Cr	BL		requirement according to Anne
		Br	NA		clause 6(c).
FEET VIEW		Pb	BL		
		Cd	BL		
167	Silver metal with black coating	Hg	BL	NA	Non comment
	o en la companya de l	Cr	BL		
		Br	NA		
		Pb	BL.		
METER AND		Cd	BL	NA	
168	Silver metal with black coating	Hg	BL		Non comment
	Coding	Cr	BL		
A VIET E		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
CH CALLY		Pb	BL		
		Cd	BL		
169	White hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
E ELYTEL		Pb	BL		
		Cd	BL		
170	Black soft plastic with silver printing	Hg	BL	NA	Non comment
ZYZEKETY ZEKETY	Pinking	Cr	BL		
		Br	BL		
		Pb	BL		Non comment
ELECTIVE CONTRACTOR	Silver metal	Cd	BL		
171		Hg	BL	NA	
ALERA TA		Cr	BL		
ELVIEFE		Br	NA.		
VIETER IN		Pb	BL	NA	Non comment
		Cd	BL		
172	Black soft plastic with silver printing	Hg	BL		
ELY LEFT	philing	Cr	BL		
VILLE FELL		Br	BL		
EL LIVIE		Pb	BL		
MATERIAL STATES		Cd	BL		
173	Yellow hard plastic with grey printing	Hg	BL	NA	Non comment
Mark Cal	gicy printing	Cr	BL		
A PARTY A		Br	BL		
ar Viete		Pb	BL		
Keffeld V		Cd	BL	NA NA	
174	Black soft plastic	Hg	BL		Non comment
EL ERY		Cr	BL		
ar Liet		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
CH CALLY		Pb	BL		
		Cd	BL		
175	White soft plastic with silver printing	Hg	BL	NA	Non comment
	panting	Cr	BL		
		Br	BL		
E ELYTEL		Pb	BL		
		Cd	BL		
176	Silver metal	Hg	BL	NA	Non comment
Y TELEVET		Cr	BL		
		Br	NA		
A THE LEE		Pb	BL		Non comment
E ELVITE	Silver metal	Cd	BL		
177		Hg	BL	NA .	
		Cr	BL		
		Br	NA		
VIETE EN		Pb	BL	NA	Non comment
		Cd	BL		
178	White hard plastic	Hg	BL		
TELY VET		Cr	BL		
		Br	BL		
FER TYLE		Pb	BL		
A THE LEAD		Cd	BL		
179	Copper metal	Hg	BL	NA	Non comment
METER EN		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL	NA Non c	
180	Black hard plastic	Hg	BL		Non comment
Mer ed		Cr	BL		
A VIET E		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
ELECTION OF THE PROPERTY OF TH		Pb	BL		
		Cd	BL		
181	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
E BY TEE		Pb	BL		
VIET ELV		Cd	BL		
182	Transparent hard plastic	Hg	BL	NA	Non comment
VIET EN		Cr	BL		
TEL STEE		Br	BL		
VI LEFTER		Pb	+ BL		Non comment
THE BUTTE	Red soft plastic	Cd	BL		
183		Hg	BL	NA	
		Cr	BL		
		Br	BL		
VIETERALY		Pb	BL	NA	Non comment
ELY VIEW		Cd	BL		
184	Black soft plastic with silver printing	Hg	BL		
ELY VIET	Pillating	Cr	BL		
VITE ELV		Br	BL		
EL VIER		Pb	BL		
A THE LEAD		Cd	BL		
185	Silver metal	Hg	BL	NA	Non comment
NET EN		Cr	BL		
		Br	NA		
A VIET E		Pb	BL		
CATE OF STATE		Cd	BL	NA .	
186	Orange hard plastic with black printing	-Hg	BL		Non comment
THE BUT	Sidor printing	Cr	BL		
A VIET E		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
CHELLEY NE		Pb	BL		
TO VIET E		Cd	BL		
187	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
FIELVIEFE		Pb	BL		
VILLE FERV		Cd	BL		
188	Silver metal	Hg	BL	NA	Non comment
Y TELEFET		Cr	BL		
		Br	NA		
A VIET E		Pb	BL		Non comment
E EL LA LE	Yellow/green soft plastic with grey printing	Cd	BL		
189		Hg	BL	NA	
TELEVITER		Cr	BL		
HANTELE S		Br	BL		
VIETE ENVI		Pb	BL	NA.	Non comment
ELLY VIETE		Cd	BL		
190	Red soft plastic	Hg	BL		
HE HY LEEK		Cr	BL		
ALEE ELV		Br	BL		
FERNALE F		Pb	BL		
A A TATE OF A TA		Cd	BL		
191	Blue soft plastic	Hg	BL	NA	Non comment
METER ELV		Cr	BL		
		Br	BL		
CANTER C		Pb	BL		
		Cd	BL	NA Non com	
192	Silver metal	Hg	BL		Non comment
A SECTION		Cr	BL		
an Viet		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
THE ENTY		Pb	BL		
		Cd	BL		
193	Silver metal	Hg	BĹ	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
ALLE EN A		Cd	BL		
194	Red soft plastic with silver printing	Hg	BL	NA	Non comment
	pinang	Cr	BL		
ELECTIVE C		Br	BL		
CAN TELEFOR		Pb	BL		Non comment
EL EL VI	Red soft plastic with silver printing	Cd	BL		
195		Hg	BL	NA.	
CEL CALLE		Cr	BL		
STATE E		Br	BL		
VERFER N.		Pb	BL	NA	Non comment
ALVIETE		Cd	BL		
196	Silver metal	Hg	BL		
		Cr	BL		
VILLE EN		Br	NA		
TEANTIE		Pb	BL		
YEEFERY)		Cd	BL		
197	White hard plastic	Hg	BL	NA	Non comment
ALTER EN		Cr	BL		
		Br	BL		
A VIET OF		Pb	BL		
		Cd	BL	NA NA	
198	Blue soft plastic with silver printing	Hg	BL		Non comment
TEL ELY	printing	Cr	BL		
AVIET S		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
CHE TO VIEW		Pb	BL		
TO VIET E		Cd	BL		
199	Yellow/green soft plastic with grey printing	Hg	BL	NA	Non comment
	3.7.	Cr	BL		
A THE LET A		Br	BL		
F ELVIEFE		Pb	BL		
		Cd	BL		
200	White hard plastic	Hg	BL	NA	Non comment
A VIET ET V		Cr	BL		
		Br	BL		
A VIET E		Pb	BL		Non comment
F ELVIER	Black hard plastic	Cd	BL		
201		Hg	BL	NA	
		Cr	BL		
		Br	BL		
VIETE EN V		Pb	BL	NA -	
F GA VIEF		Cd	BL		Non comment
202	Silver metal	Hg	BL		
THE TATELY		Cr	BL		
		Br	NA		
FER VIEW		Pb	BL		
		Cd	BL		
203	Blue hard plastic	Hg	BL	NA	Non comment
Mark Car		Cr	BL		
		Br	BL		
CANTER C		Pb	BL		
		Cd	BL	NA	
204	Black hard plastic	Hg	BL		Non comment
THE BUYE		Cr	BL		
ed Viet		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
205	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA	Testing <sup>(2)</sup> (mg/kg)	
FERNIEFE A		Pb	BL		
		Cd	BL		
206	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL	NA NA	
		Br	BL		
MANAGE CONTRACTOR OF THE PROPERTY OF THE PROPE		Pb	BL		
		Cd	BL		Non comment
207	Copper metal	Hg	BL	NA NA	
EEE VITEE		Cr	BL BL BL NA BL NA BL BL BL BL		
		Br	NA.	NA NA NA NA NA	
VIETER VIET		Pb	BL		
		Cd	BL		
208	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
A TELEVICIENT		Pb	BL		
		Cd	BL		
209	Silver metal	Hg	BL	NA	Non comment
ALTER BY		Cr	BL		
		Br	NA		
A VIEW OF		Pb	BL		
		Cd	BL		
210	Copper metal	Hg	BL	NA	Non comment
THE STATE OF		Cr	BL		
A VIET C		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
211	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA	Testing <sup>(2)</sup> (mg/kg)	
FERVIEFE		Pb	BL		
		Cd	BL		
212	Silver metal	Hg	BL	NA	Non comment
		Cr	BL	NA  NA  PBBs:ND PBDEs:ND  NA	
		Br	NA		
er Viter Er		Pb	BL		
CALLETY CO		Cd	BL		
213	White hard plastic	Hg	<del>CHANG TANG TOLEN</del> IYA KANYA ELIYA	Non comment	
		Cr	BL	NA  NA  PBBs:ND PBDEs:ND  NA	
		Br	BL		
		Pb	BL		
		Cd	BL		
214	Green PCB	Hg	BL	NA  NA  PBBs:ND PBDEs:ND  NA	Non comment
		Cr	BL		
		Br	X		
		Pb	BL		
		Cd	BL		
215	Beige hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
216	Silver metal	Hg	BL	NA	Non comment
Mark and Co		Cr	BL		
A VIET OF		Br	NA	NA  PBBs:ND PBDEs:ND  NA	





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
THE LEVILLE		Pb	BL		
		Cd	BL		
217	SMD capacitor	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL	Testing <sup>(2)</sup> (mg/kg)	
FERVIETE		Pb	BL		
		Cd	BL		
218	SMD diode	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL	NA  NA  PBBs:ND PBDEs:ND	
A VIET ELY		Pb	BL		
F. Cally Life		Cd	BL		Non comment
219	SMD crystal resonator	Hg	BL	NA	
		Cr	BL	NA NA PBBs:ND PBDEs:ND NA	
		Br	BL		
VIET FEVI		Pb	BL		
FERTVER E		Cd	BL		
220	Green PCB	Hg	BL	NA  NA  PBBs:ND PBDEs:ND	Non comment
		Cr	BL		
		Br	X		
FERNAL FE		Pb	BL		
A THE FEET OF		Cd	BL		
221	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
A VIA		Pb	BL		
		Cd	BL		
222	Silver metal	Hg	BL	NA	Non comment
A BOY		Cr	BL		
EL VIET E		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
VIER BYVER		Pb	BL		
		Cd	BL		
223	White hard plastic	Hg	BL BL NA BL	Non comment	
		Cr	BL		
		Br	BL	NA  NA  NA  NA	
E CONTROL CO		Pb	BL		
		Cd	BL		
224	SMD IC	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL	NA NA NA	
ALLE ELAN		Pb	BL		
FEFER NEED WEE	SMD resistor	Cd	BL	NA.	Non comment
225		Hg	BL		
		Cr	d BL g BL NA Cr BL Br BL b BL		
		Br	BL	NA NA NA NA	
		Pb	BL		
		Cd	BL		
226	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
TEN VITE		Pb	BL		
		Cd	BL		
227	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
KARTAY S		Cd	BL		
228	White foam	Hg	BL	NA	Non comment
		Cr	BL		
ar Viet of		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
229	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA	NA  NA  NA  NA	
FERNIE E		Pb	BL		
		Cd	BL		
230	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL	NA NA NA	
		Br	BL		
CANTEL EN		Pb	BL		
		Cd	BL		Non comment
231	Copper metal	Hg	BL	NA	
		Cr	BL		
		Br	NA	NA NA NA NA	
		Pb	BL	NA NA NA	
		Cd	BL		
232	Silver metal	Hg	BL		Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
233	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
KEE DY VE		Cd	BL		
234	Grey soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
VIET ELVIE		Pb	BL		
		Cd	BL		
235	Black soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
EL LANGE		Pb	BL		
		Cd	BL		
236	Transparent glass with black printing	Hg	BL	NA	Non comment
ALLER ET A	bledk printing	Cr	BL		
		Br	BL		
		Pb	BL		
TELL ELVILE	Transparent glass with silver coating	Cd	BL	NA NA	Non comment
237		Hg	BL		
		Cr	BL		
		Br	BL		
VIETE ET VI		Pb	BL		
		Cd	BL		
238	Grey transparent hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
239	Yellow electronic wire	Hg	BL	NA	Non comment
		Cr	BL		
		Br BL			
		Pb	BL		
VIET BY		Cd	BL	NA NA	
240	Silver metal	Hg	BL		Non comment
West and the		Cr	BL		
tay viet		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
CELETY CELL		Pb	BL		
Ter Viter		Cd	BL		
241	White hard plastic	Pb	Non comment		
		Cr	EDXRF <sup>(1)</sup> Testing <sup>(2)</sup> (mg/kg)           BL         BL           BL         NA           BL         BL           BL         BL           BL         NA           BL         BL           BL         BL           BL         NA           BL         BL           BL         NA           BL         BL           BL         BL		
		Br	BL	NA NA NA	
ELENTIE E		Pb	BL		
VIET EN		Cd	BL		
242	Black soft plastic	Hg	BL	NA	Non comment
TITLE EN		Cr	BL		
		Br	BL		
STATES EN		Pb	BL		
THE BUTTE		Cd	BL	NA .	Non comment
243	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Hg	BL		
TELETY TE					
		Br	NA		
VIETERALY SEPTEMENT		Pb	BL		
ELYLIEF E		Cd	BL		
244		Hg	BL		Non comment
ELY LE		Cr	BL		
ALLE ELV		Br	BL		
EL EL VIE		Pb	BL		
		Cd	BL		
245	Grey hard plastic	Hg	BL	NA	Non comment
STATE OF		Cr	BL		
		Br	BL		
Car Vine		Pb	BL		
KIEFERY EFERVI		Cd	BL		
246	Black solid	Hg	BL	NA	Non comment
Car all		Cr	BL		
AN VIET		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
TELET ELVI		Pb	BL		
TELYLER F		Cd	BL		
247 Silver metal Hg Cr	Silver metal	Hg	BL	NA	Non comment
	Cr	BL			
		Br	NA		
E ELYTE		Pb	BL		
		Cd	BL		
248	White hard plastic	Hg	BL	NA	Non comment
Z VIETER ELV		Cr	BL		
		Br	BL		
A THE EN		Pb	BL		
E E E E L'A	Red soft plastic with black printing	Cd	BL		Non comment
249		Hg	BL	NA NA	
ARTHURY TO		Cr	BL		
er Vere		Br	BL		
VIETER AN		Pb	BL		Non comment
		Cd	BL		
250	Copper metal	Hg	BL	NA	
		Cr	BL	NA NA	
VIETE ET		Br	NA		
		Pb	BL		
A TATE OF THE		Cd	BL		
251	Black soft plastic with silver printing	Hg	BL	NA	Non comment
	pining	Cr	BL		
	Br BL				
A VIGE		Pb	BL		
VLEFE OV		Cd	BL		
252	Black soft plastic	Hg	BL	NA Non cor	Non comment
Ker en k		Cr	BL		
AVITET E		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
VIET ELVIE		Pb	BL		
		Cd	BL		
253	Blue soft plastic with black	Pb BL Cd BL Hg BL NA  Cr BL  Br BL  Cd BL  Ref plastic with printing  ft plastic with printing  Ft plastic with printing  Pb BL Cd BL  Ref plastic with printing  Pb BL Cd BL  Ref plastic with printing  Pb BL Cd BL  Ref plastic with printing  Ref plastic with printing  Pb BL Cd BL  Ref plastic with printing  Ref plastic with printing	Non comment		
	panting	Cr	BL		
		Br	BL	Testing <sup>(2)</sup> (mg/kg)  NA  NA  NA	
ELVIELE ELVIELE		Pb	BL		
		Cd	BL		
254	Brown soft plastic with black printing	Hg	BL	NA	Non comment
ANTERES	black printing	Cr	BL		
		Br	BL		
A VIET E		Pb	BL		
F ELVIE	Green soft plastic with	Cd	BL	NA	Non comment
255		Hg	BL		
	black printing	ng Cr BL NA			
ELANTELE STATES		Br	BL	NA  NA  NA  NA	
THE REALTY		Pb	BL		
FERNYEER		Cd	BL		
256	Yellow soft plastic with	Hg	BL	NA	Non comment
EL VIELE	Diack printing	Cr	BL		
VILLE CLAVA		Br	BL		
FER VIEW		Pb	BL		
		Cd	BL		
257	Orange soft plastic with black printing	Hg	BL	NA	Non comment
ALLE ELV	Diack printing	Cr	BL		
		Br	BL		
a Victoria		Pb	BL		
		Cd	BL	NA NA	
258	Silver metal	Hg	BL		Non comment
A STATE OF S		Cr	BL		
ed Viet		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
259	White hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
TEL TEL VIETE		Pb	BL		
		Cd	BL		
260	Red soft plastic	Hg	BL	NA	Non comment
CELVIEL ELV		Cr	BL		
		Br	BL		
EL VIETE		Pb	BL		
VIET GAVIE		Cd	BL		Non comment
261	Silver metal	Hg	BL	NA NA	
		Cr	BL.		
		Br	NA		
THE ELLY		Pb	BL	NA	
		Cd	BL		Non comment
262	Black soft plastic with silver printing	Hg	BL		
EFFEY YEF	Philad 9	Cr	BL		
		Br	BL	NA NA NA	
TELET VIEW		Pb	BL		
		Cd	BL		
263	Black soft plastic with silver printing	Hg	BL	NA	Non comment
A VIET EN	pillising	Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL	NA No	
264	Silver metal	Hg	BL		Non comment
Liter Bay		Cr	BL		
Edvilet		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
VIET ET V		Pb	BL		
		Cd	BL		
265	White hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL	Testing <sup>(2)</sup> (mg/kg)	
E ENTRE		Pb	BL		
		Cd	BL		
266	Copper metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
STATE LET		Pb	BL		
TELL BY		Cd	BL		Non comment
267	Black soft plastic with silver printing	Hg	BL	NA NA NA	
	paining .	Cr	BL		
		Br	BL		
VIET ET VI		Pb	BL		
		Cd	BL		
268	Blue hard plastic with black printing	Hg	BL	NA	Non comment
	Pillating	Cr	BL		
		Br	BL		
EFERTATE		Pb	BL		
		Cd	BL		
269	Blue hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
STATE OF		Pb	OL		As declared by
Liter Bay		Cd	BL		client, the material should be exempted
270	Silver metal	Hg	BL	Pb:19894	for lead content
ALEGE BY		Cr	BL	BL       NA         BL       NA         BL       NA         BL       NA         BL       NA         BL       BL         BL       NA         BL       BL         BL       BL         BL       BL         BL       Pb:19894	requirement according to Annex
EN VIET E		Br	NA		clause 6(c).





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark
CELETY TEL		Pb	BL		
Tel Villet Ed		Cd	BL		
271	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA	Testing <sup>(2)</sup> (mg/kg)	
TELY LEFE		Pb	BL		
		Cd	BL		
272	Silver metal with black coating	Hg	BL	NA	Non comment
	o and	Cr	BL		
		Br	NA	NA  NA  NA  NA	
N. LETTER		Pb	BL		
THE BUTTER	Yellow hard plastic	Cd	BL	DXRF <sup>(1)</sup> Testing <sup>(2)</sup> (mg/kg)           BL         BL           BL         NA           BL         BL           BL         NA           BL         BL           BL         BL	Non comment
273		Hg	BL		
		Cr	BL		
		Br	BL		
VIETE TO VIE		Pb	BL	NA NA	
		Cd	BL		
274	White hard plastic	Hg	BL		Non comment
		Cr	BL		
		Br	BL		
TEN VIEW		Pb	BL		
		Cd	BL		
275	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
276	Copper metal	Hg	BL	NA	Non comment
THE BOX		Cr	BL		
A VIET S		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Remark	
VILET ENVILER	Brown soft plastic	Pb	BL			
277		Cd	BL		Non comment	
		Hg	BL	NA		
		Cr	BL			
		Br	BL			
ELLY LEFT	Blue soft plastic	Pb	BL			
		Cd	BL			
278		Hg	BL	NA	Non comment	
STATE OF		Cr	BL			
		Br	BL			
A LIGHT CONTRACTOR	Yellow/green soft plastic	Pb	BL		Non comment	
E E ELVITER		Cd	BL			
279		Hg	BL	NA		
		Cr	BL			
		Br	BL			
280	Black soft plastic	Pb	BL		Non comment	
		Cd	BL			
		Hg	BL	NA		
		Cr	BL			
		Br	BL			
TEAN LEFT	Silver metal Silver metal	Pb	BL		Non comment	
281		Cd	BL			
		Hg	BL	NA		
		Cr	BL			
		Br	NA			
		Pb	BL.			
		Cd	BL			
		Hg	BL	NA	Non comment	
		Cr	BL			
ed Viet		Br	NA			





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No.	Sample description	Restricted Results of Results of Chemical substances EDXRF <sup>(1)</sup> Results of Chemical Testing <sup>(2)</sup> (mg/kg)		Remark		
LIET ELVIE		Pb	BL			
	Black hard plastic	Cd	BL			
283		Hg	BL	NA	Non comment	
		Cr	BL			
		Br	BL			
EL EL VIELE	Black hard plastic	Pb	BL			
		Cd	BL		Non comment	
284		Hg	BL	NA		
		Cr	BL			
		Br	BL			
	Silver metal	Pb	BL			
EFF EFVIE		Cd	BL		Non comment	
285		Hg	BL	NA		
		Cr	BL			
		Br	NA			
	Silver metal	Pb	OL		As declared by client, the material should be exempted	
t ed vitet e		Cd	BL			
286		Hg	BL	Pb:24758	for lead content	
		Cr	BL		requirement according to Annex	
A THE FEAT OF		Br	NA		clause 6(c).	





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- Remark: (1) ① Results are obtained by XRF for primary screening, and further wet chemical testing by ICP-OES / AAS (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).
  - ② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA= Not Applicable.
  - ③ The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.

Element	Polymer	Metal	Composite Materials	
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma)$ $\leq OL$	BL ≤(70-3 σ)< X <(130+3 σ) ≤ OL	LOD < X <(150+3 σ )≤ OL	
Pb	BL ≤(700-3 σ )< X <(1300+3 σ )≤ OL	BL $\leq$ (700-3 $\sigma$ )< X <(1300+3 $\sigma$ ) $\leq$ OL	BL ≤(500-3 σ)< X <(1500+3 σ)≤ OL	
Hg	BL ≤(700-3 σ)< X <(1300+3 σ)≤ OL	BL $\leq$ (700-3 $\sigma$ )< X <(1300+3 $\sigma$ ) $\leq$ OL	BL ≤(500-3 σ)< X <(1500+3 σ)≤ OL	
Br	BL ≤ (300-3 <i>σ</i> )< X	NA	BL ≤ (250-3 σ )< X	
Cr Cr	BL ≤ (700-3 <i>σ</i> )< X	BL ≤ (700-3 σ )< X	BL ≤ (500-3 <i>σ</i> )< X	

- (2) ① mg/kg = ppm = 0.0001%, ND = Not Detected (Less than reporting limit value.).
  - 2 Unit, Reporting Limit (RL) and Requirement limit in wet chemical test.

Test items	Pb	Cd	Hg	Cr <sup>6+</sup> (Non-metal)	Cr <sup>6+</sup> (metal)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RL	2	2	2	2	2	5	5
Requirement Limit	1000	100	1000	1000	Negative	1000	1000

3 According to IEC 62321:2008 & IEC 62321-7-1:2015, result on Cr<sup>6+</sup> for metal sample is shown as Positive/Negative.

Negative = Absence of  $Cr^{6+}$  coating, Positive = Presence of  $Cr^{6+}$  coating. Storage condition and production date of the tested sample are unavailable and thus results of  $Cr^{6+}$  represent status of the sample at the time of testing.

According to IEC 62321-3-1:2013, this column represents the results of wet chem test. And "NA" means no need to perform wet chem test, when the XRF sereening results are qualified.

Declaration: Report ED170213035CEV1 was repealed and replaced by Report ED170213035CEV2.





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Photo Appendix







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#### Photo Appendix



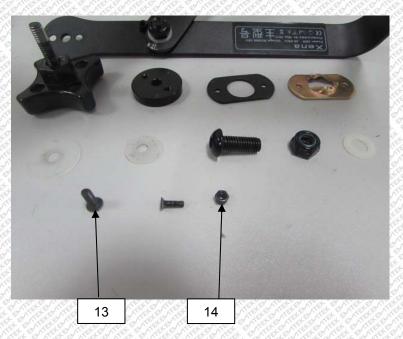


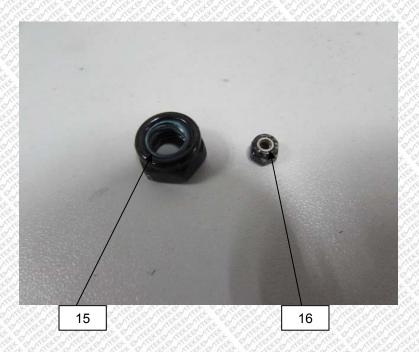




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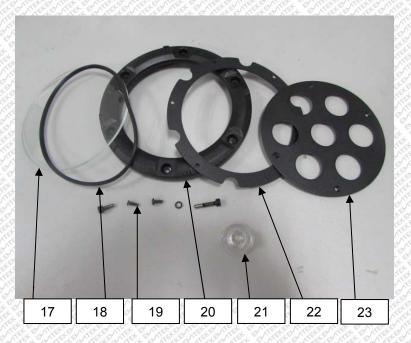


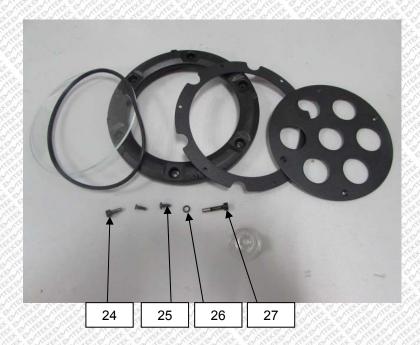




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#### Photo Appendix



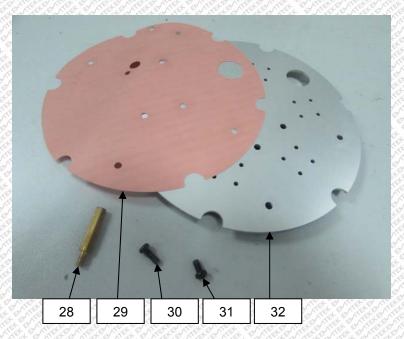


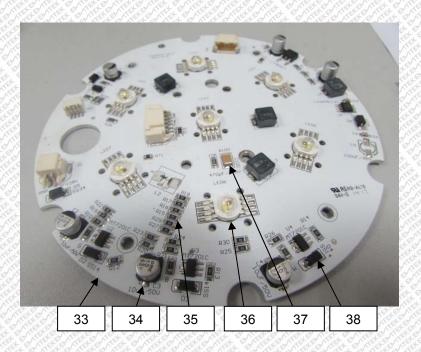




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#### Photo Appendix



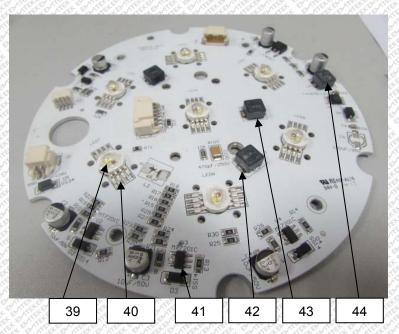


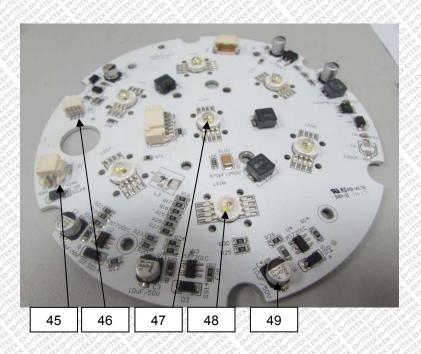




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#### Photo Appendix



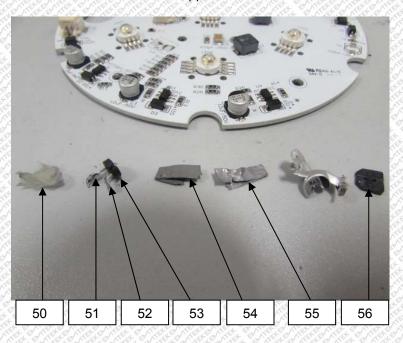


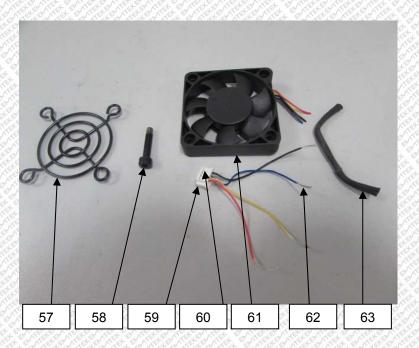




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#### Photo Appendix



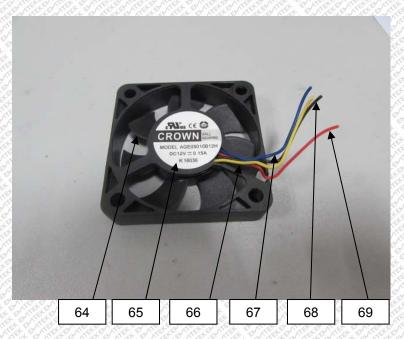


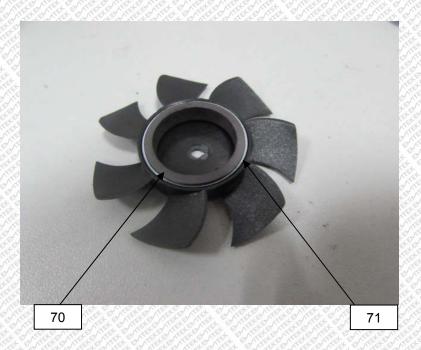




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#### Photo Appendix



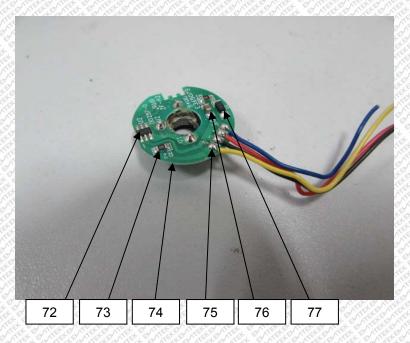


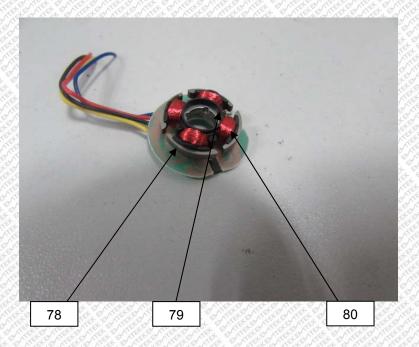




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#### Photo Appendix



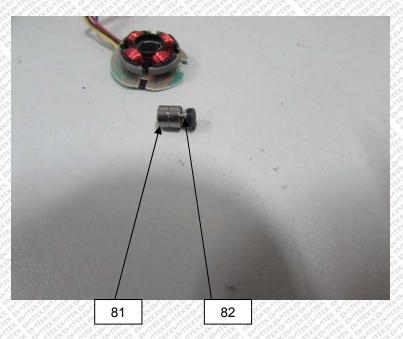


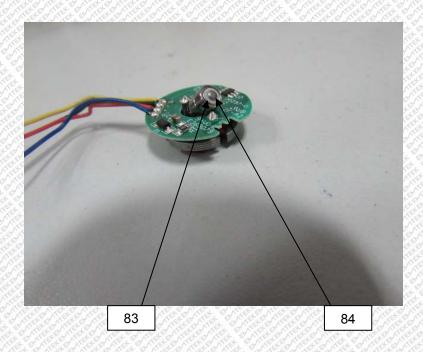




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#### Photo Appendix



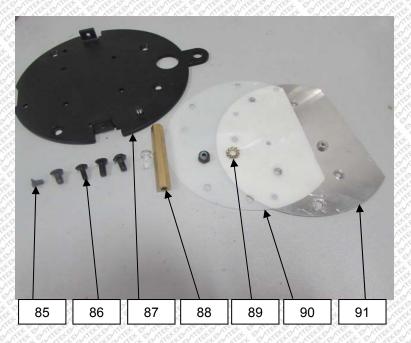


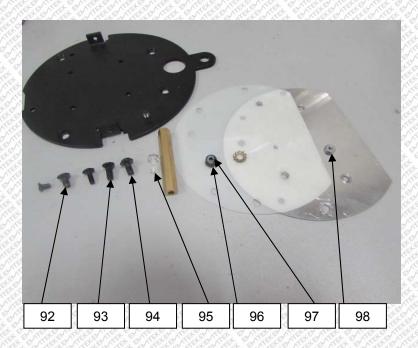




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#### Photo Appendix



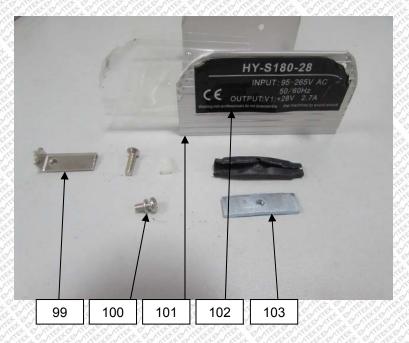






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#### Photo Appendix



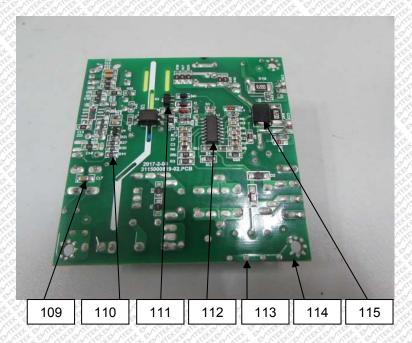


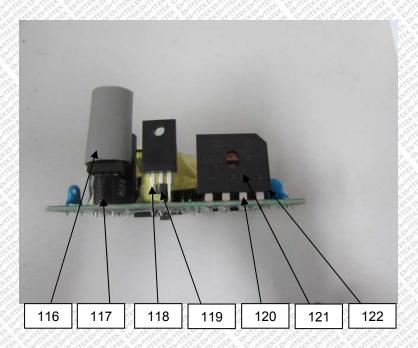




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#### Photo Appendix



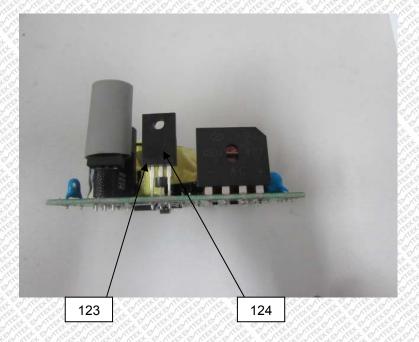


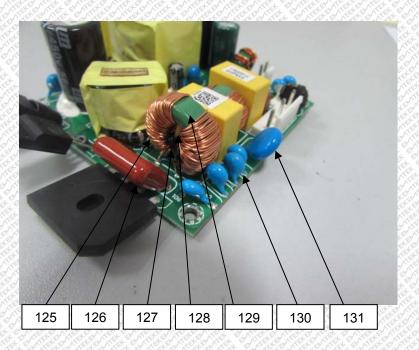




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#### Photo Appendix



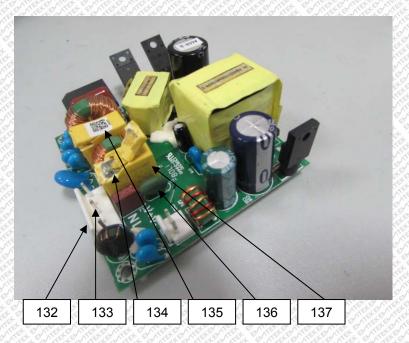


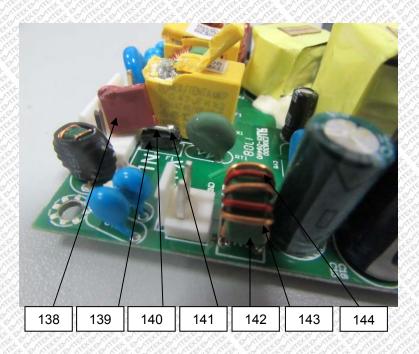




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#### Photo Appendix



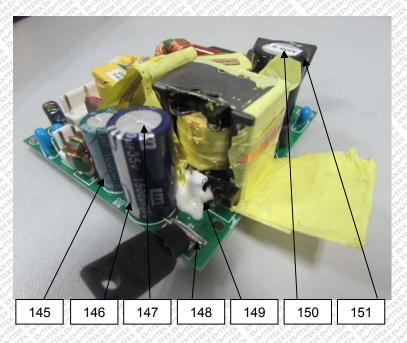


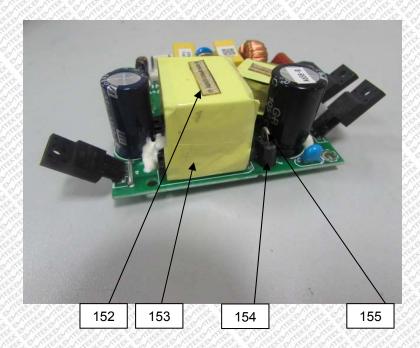




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#### Photo Appendix



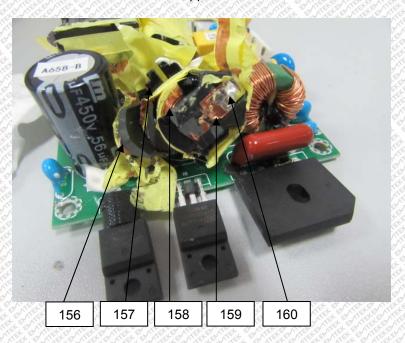


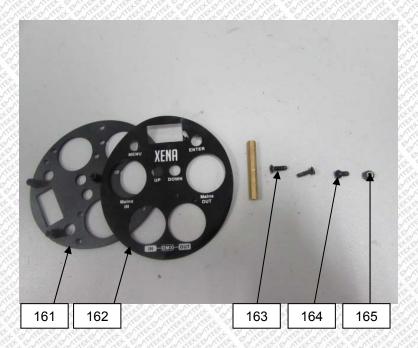




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#### Photo Appendix



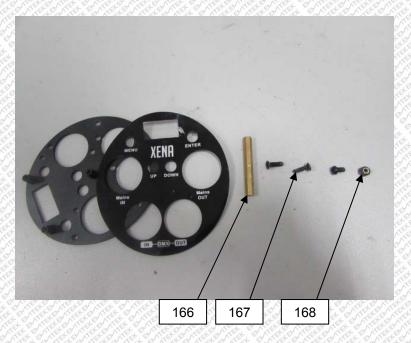


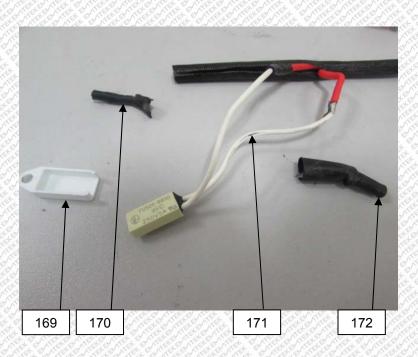




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#### Photo Appendix



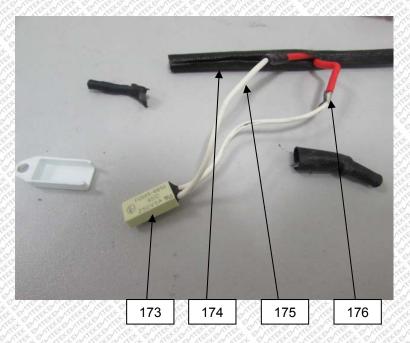


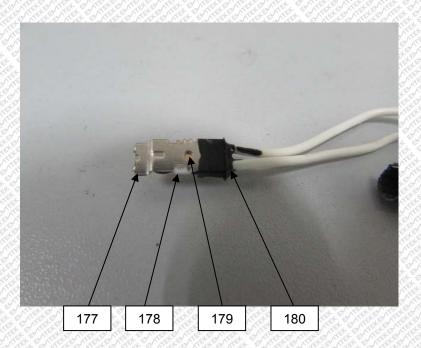




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#### Photo Appendix



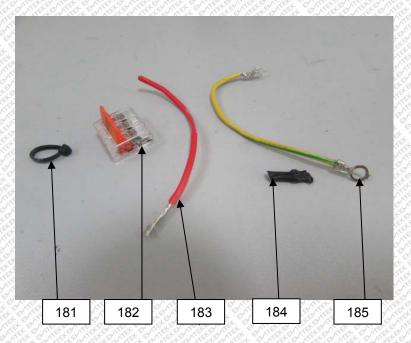


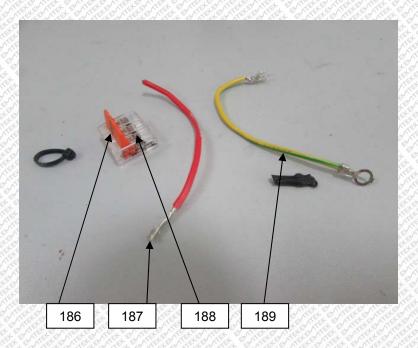




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#### Photo Appendix



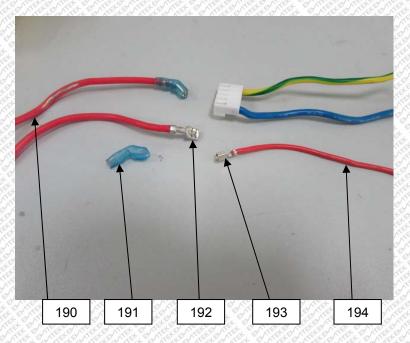


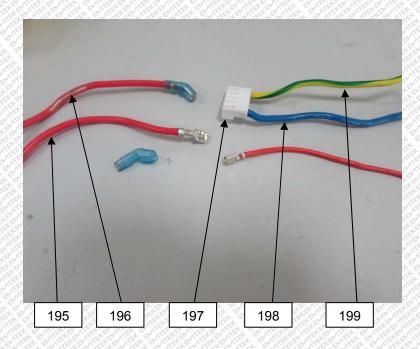




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#### Photo Appendix









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#### Photo Appendix



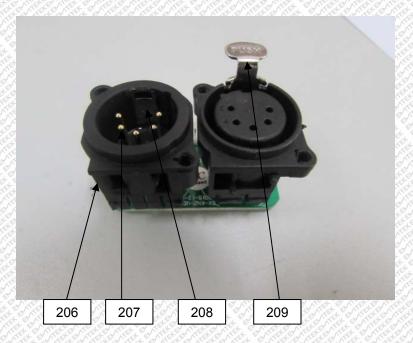


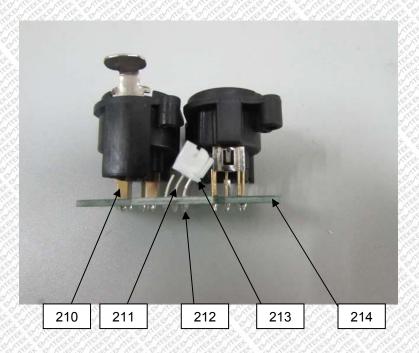




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#### Photo Appendix



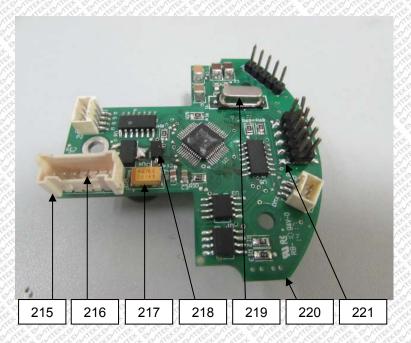


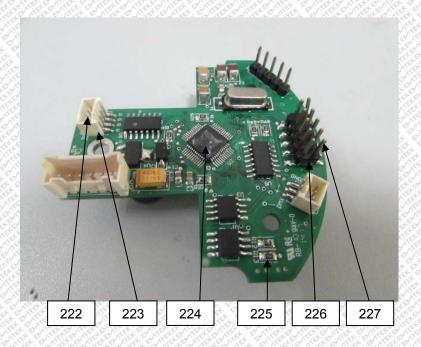




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#### Photo Appendix



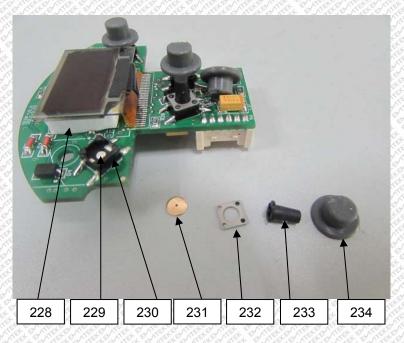


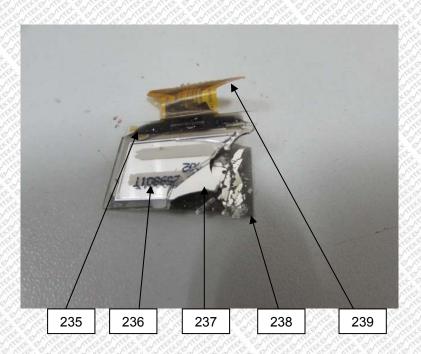




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#### Photo Appendix



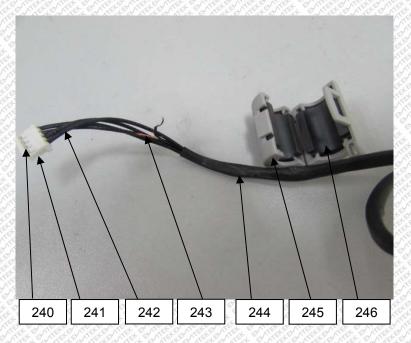


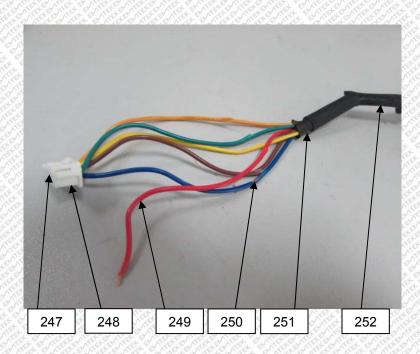




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#### Photo Appendix



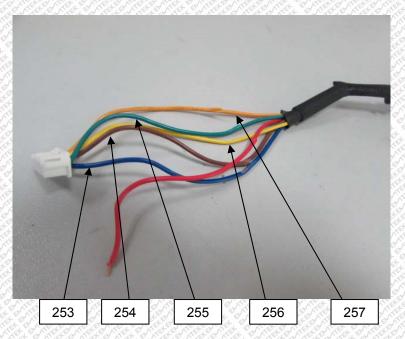


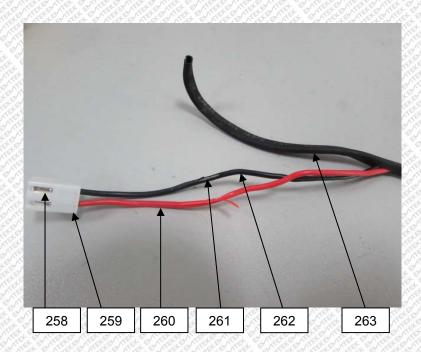




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#### Photo Appendix



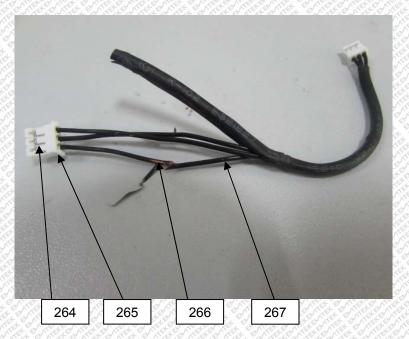






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#### Photo Appendix



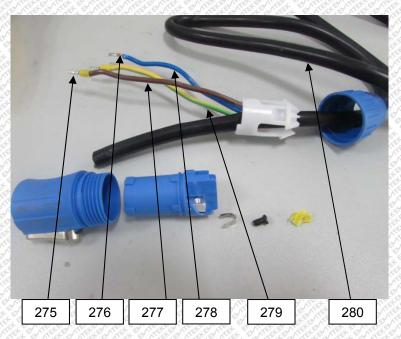






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#### Photo Appendix



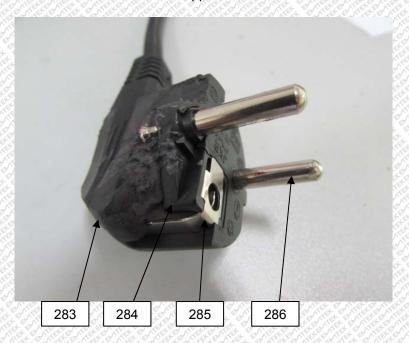






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#### Photo Appendix



\* \* \* \* \* \* The End \* \* \* \* \* \*





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#### **ANNEX**

#### **EXEMPTION LIST**

- Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
- 1(a) For general lighting purposes < 30W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2011 until 31 December 2012; 2.5mg shall be used per burner after 31 December 2012)
- 1(b) For general lighting purposes ≥ 30W and <50W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2011)
- 1(c) For general lighting purposes ≥ 50W and <150W: 5mg
- 1(d) For general lighting purposes ≥ 150W: 15mg
- 1(e) For general lighting purposes with circular or square structural shape and tube diameter ≤17mm (no limitation of use until 31 December 2011; 7mg may be used per burner after 31 December 2011)
- 1(f) For special purposes: 5mg
- 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 purples not exceeding (per lamp):
- 2(a)(1) Tri-band phosphor with normal lifetime and a tube diameter < 9mm (e.g. T2): 5mg (expires on 31 December 2011; 4mg may be used per lamp after 31 December 2011)
- 2(a)(2) Tri-band phosphor with normal lifetime and a tube diameter ≥ 9mm and ≤ 17mm (e.g. T5): 5mg (expires on 31 December 2011; 3mg may be used per lamp after 31 December 2011)
- 2(a)(3) Tri-band phosphor with normal lifetime and a tube diameter > 17mm and ≤ 28mm (e.g. T8): 5mg (expires on 31 December 2011; 3.5mg may be used per lamp after 31 December 2011)
- 2(a)(4) Tri-band phosphor with normal lifetime and a tube diameter > 28mm (e.g. T12): 5mg (expires on 31 December 2012; 3.5mg may be used per lamp after 31 December 2012)
- 2(a)(5) Tri-band phosphor with long lifetime (≥ 25000h): 8mg (expires on 31 December 2011; 5mg may be used per lamp after 31 December 2011)
- 2(b) Mercury in other fluorescent lamps not exceeding (per lamp):
- 2(b)(2) Non-linear halophosphate lamps (all diameters): 15mg (expires on 13 April 2016)
- 2(b)(3) Non-linear tri-band phosphor lamps with tube diameter > 17mm (e.g. T9) (no limitation of use until 31 December 2011; 15mg 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; 15mg 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 (≤ 500mm) (No limitation of use until 31 December 2011; 3.5mg may be used per lamp after 31 December 2011)
- 3(b) Medium length (> 500m and ≤ 1500mm) (No limitation of use until 31 December 2011; 5mg may be used per lamp after 31 December 2011)
- 3(c) Long length (> 1500mm) (No limitation of use until 31 December 2011; 13mg 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; 15mg 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  $P \le 155W$  (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
- 4(b)-II 155W < P ≤ 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
- 4(b)-III P > 405W (no limitation of use until 31 December 2011; 40mg 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  $P \le 155W$  (no limitation of use until 31 December 2011; 25mg may be used per burner after 31 December 2011) 4(c)-II  $155W < P \le 405W$  (no limitation of use until 31 December 2011; 30mg may be used per burner after 31 December 2011)
- 4(c)-III P > 405W (no limitation of use until 31 December 2011; 40mg 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 lightartwork, where the mercury content shall be limited as follows: (Expires on 31 December 2018)
  - (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.





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#### **ANNEX**

#### **EXEMPTION LIST**

#### Continued

1	5(a)	Lead in glass of cathode ray tubes
3	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
1	6(b)	Lead as an alloying element in aluminium containing up to 0.4% lead by weight
	6(c)	Copper alloy containing up to 4% lead by weight.
	7(a)	Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead)
	7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications
A TO	7(c)-l	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 125V AC or 250V DC or higher
	7(c)-III	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125V AC or 250V 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
N X N	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
4	9`′	Hexavalent chromium as an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution
7	9(b)	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications
4	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)
	13(a)	Lead in white glasses used for optical applications
	13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards
1	14	Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors
6		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)
	15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages
F	17	Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications
7	18(b)	Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb)
	21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glass
	24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors
1	25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring
6	29	Lead bound in crystal glass as defined in Annex 1 (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC
1	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)
	32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes
	33	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers
	34	Lead in cermet-based trimmer potentiometer elements
	37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body
	38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide
	39	Cadmium in colour converting II-VI LEDs (< 10 μg Cd per mm <sup>2</sup> of light- emitting area) for use in solid state illumination or display systems (expires on 1 July 2014)
	11	Load in solders and termination finishes of electrical and electronic components and finishes of printed circuit beards used in

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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 (2)) (Expires on 31 December 2018)