TEST REPORT

LAB NO. : (6624)031-0519
DATE : February 7, 2024

Applicant:
SHAOXING SHANGYU NORTH ELECTRON MANUFACTURE CO.,LTD.
XINGYUE INDUSTRY ZONE, XIAOYUE TOWN,SHANGYU DISTRICT,SHAOXING CITY,ZHEJIANG,P.R.CHINA

Date of Submission: 2024-1-31
Test Period: 2024-1-31 to 2024-2-7
Sample Mode: Sample Presentation
BV EE Ref. No.: /

Sample Description:	Sample(s) received is(are) stated to be: MINI FRIDGE		
Manufacturer:	/	Buyer:	/
Style No(s):	LY0204E,LY2107	PO No.:	/
Country of Origin:	/	Country of Destination:	Oversea Country

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments (EU) 2015/863	PASS

REMARK
If there are questions or concerns on this report, please contact the following persons:

General enquiry and invoicing
Mr. Speed Yu/ Ms. Cabell Chen
(021) 24166888*6832/6850
Speed.yu @bureauveritas.com/ Cabell.chen@bureauveritas.com

Technical enquiry
Mr. Gorden Yu/ Ken He
(021) 24166888*6852/6859
Gorden.yu @bureauveritas.com/ Kenny.he@bureauveritas.com

BUREAU VERITAS
CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)
Laboratory Test Location:
No.368,Guangzhong Road, Zhuanqiao Town, Minhang, Shanghai
No.168,Guanghua Road, Zhuanqiao Town, Minhang, Shanghai

PREPARED BY : Ann

Connie Ye
Analytical Technical Specialist

Bureau Veritas
Consumer Products Services Division (Shanghai)
No.168, Guanghua Road , Zhuanqiao Town, Minhang, Shanghai, China.
Post Code: 201108
Tel: 86-21-24166888 Fax: 86-21-64890042
Email: bvcps_sh_info@cn.bureauveritas.com
Http: www. bureauveritas.com/cps

Photo of the Submitted Sample

TEST RESULT

Compliance Test - Heavy Metals, Flame Retardants Content - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments

Test Method : See Appendix.

See Analytes and their corresponding Maximum Allowable Limit in Appendix

-			Result					
Parameter			**Lead (Pb)**	**Cadmium (Cd)**	**Mercury (Hg)**	**Chromium VI (Cr VI)**	**PBBs & PBDEs**	**Conclusion**
Unit			**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	-
Test Item	**Description**	**Location**	-	-	-	-	-	-
1	Silvery metal	Housing	ND	ND	ND	Negative*	NA	PASS
2	Silvery metal		ND	ND	ND	ND	NA	PASS
3	Black sponge		ND	ND	ND	ND	ND	PASS
4	White plastic		ND	ND	ND	ND	ND	PASS
5	White plastic		ND	ND	ND	ND	ND	PASS
6	Transparent plastic		ND	ND	ND	ND	ND	PASS
7	Transparent plastic		ND	ND	ND	ND	ND	PASS
8	White plastic		ND	ND	ND	ND	ND	PASS
9	Silvery metal		ND	ND	ND	ND	NA	PASS
10	Silvery metal		<500	ND	ND	Negative*	NA	PASS
11	Silvery metal		ND	ND	ND	ND	NA	PASS
12	Grey plastic		ND	ND	ND	ND	ND	PASS
13	Silvery metal		ND	ND	ND	Negative*	NA	PASS
14	Transparent glass		ND	ND	ND	ND	NA	PASS
15	White plastic		ND	ND	ND	ND	ND	PASS
16	Grey plastic		ND	ND	ND	ND	ND	PASS
17	Black plastic		ND	ND	ND	ND	ND	PASS
18	Black plastic	Inside	ND	ND	ND	ND	ND	PASS
19	Blue plastic wire jacket		ND	ND	ND	ND	ND	PASS
20	Brown plastic wire jacket		ND	ND	ND	ND	ND	PASS
21	Black plastic		ND	ND	ND	ND	ND	PASS
22	Silvery metal		ND	ND	ND	ND	NA	PASS
23	Silvery metal		ND	ND	ND	ND	NA	PASS
24	Silvery metal solder		ND	ND	ND	ND	NA	PASS
25	White glue		ND	ND	ND	ND	ND	PASS
26	Silvery metal		ND	ND	ND	ND	NA	PASS
27	Silvery plastic label with black printing	Fan	ND	ND	ND	ND	ND	PASS
28	Black plastic		ND	ND	ND	ND	<500*	PASS
29	Black plastic		ND	ND	ND	ND	<500*	PASS
30	Silvery metal		ND	ND	ND	ND	NA	PASS
31	Black magnet		ND	ND	ND	<500	NA	PASS
32	Green PCB		ND	ND	ND	ND	ND	PASS

-			Result					
Parameter			Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	Conclusion
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-
33	Silvery metal solder	Fan	ND	ND	ND	ND	NA	PASS
34	White plastic	PCB	ND	ND	ND	ND	ND	PASS
35	Yellow plastic wire jacket		ND	ND	ND	ND	ND	PASS
36	Red plastic wire jacket		ND	ND	ND	ND	ND	PASS
37	Black plastic wire jacket		ND	ND	ND	ND	ND	PASS
38	Red plastic wire jacket		ND	ND	ND	ND	ND	PASS
39	Black plastic wire jacket		ND	ND	ND	ND	ND	PASS
40	Green LED		ND	ND	ND	ND	ND	PASS
41	Brown EC		ND	ND	ND	ND	ND	PASS
42	Silvery metal		ND	ND	ND	ND	NA	PASS
43	Black plastic		ND	ND	ND	ND	<500*	PASS
44	Brown plastic		ND	ND	ND	ND	ND	PASS
45	Silvery metal		ND	ND	ND	ND	NA	PASS
46	Green PCB		ND	ND	ND	ND	<500*	PASS
47	Silvery metal solder		ND	ND	ND	ND	NA	PASS
48	Red plastic wire jacket		ND	ND	ND	ND	ND	PASS
49	Black plastic wire jacket		ND	ND	ND	ND	ND	PASS
50	Black EC		<500	ND	ND	ND	<500*	PASS
51	Blue EC		ND	ND	ND	ND	ND	PASS
52	Black EC		ND	ND	ND	ND	ND	PASS
53	Black EC		ND	ND	ND	ND	ND	PASS
54	Grey EC		ND	ND	ND	ND	ND	PASS
55	Yellow plastic		ND	ND	ND	ND	ND	PASS
56	Black plastic		ND	ND	ND	ND	ND	PASS
57	Red plastic		ND	ND	ND	ND	ND	PASS
58	Black plastic		ND	ND	ND	ND	ND	PASS
59	Green plastic		ND	ND	ND	ND	ND	PASS
60	Yellow plastic		ND	ND	ND	ND	ND*	PASS
61	Silvery metal solder		ND	ND	ND	ND	NA	PASS
62	Black plastic	Power cord	ND	ND	ND	ND	ND	PASS
63	Blue plastic wire jacket		ND	ND	ND	ND	ND	PASS
64	Brown plastic wire jacket		ND	ND	ND	ND	ND	PASS
65	Golden metal with silvery plating		$1.01x10^4$	ND	ND	ND	NA	EX#
66	Black plastic		ND	ND	ND	ND	ND	PASS
67	Black plastic		<500	ND	ND	ND	ND*	PASS
68	Black plastic		ND	ND	ND	ND	ND	PASS
69	Red plastic		ND	ND	ND	ND	ND	PASS
70	Black plastic		ND	ND	ND	ND	ND	PASS

-			Result					
Parameter			Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	Conclusion
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-
71	Silvery metal	Power cord	ND	ND	ND	ND	NA	PASS
72	Silvery metal solder		ND	ND	ND	ND	NA	PASS
73	Golden metal with silvery plating		$2.20x10^4$	ND	ND	ND	NA	EX#
74	Silvery metal		ND	ND	ND	ND	NA	PASS
75	Silvery metal solder		ND	ND	ND	ND	NA	PASS
76	Black plastic		ND	ND	ND	ND	ND	PASS
77	Blue plastic wire jacket		ND	ND	ND	ND	ND	PASS
78	Brown plastic wire jacket		ND	ND	ND	ND	ND	PASS
79	Golden metal		ND	ND	ND	ND	NA	PASS
80	Black plastic		ND	ND	ND	ND	ND	PASS

Note / Key :

ND = Not detected ">" = Greater than "<" = Less than
NR = Not requested mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit: See Appendix. NA = Not applicable EX= Exempted

Remark :

- The testing approach is listed in table of Appendix.
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.
- According to European Parliament and Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
- For item 65,73:
  #According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(c) is reiterated here "Copper alloy containing up to 4 % lead by weight.". Test Item(s) was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.

TEST RESULT

Compliance Test - Phthalate Test – (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : Reference to IEC 62321-8: 2017.

Maximum Allowable Limit : 0.1% (Each)

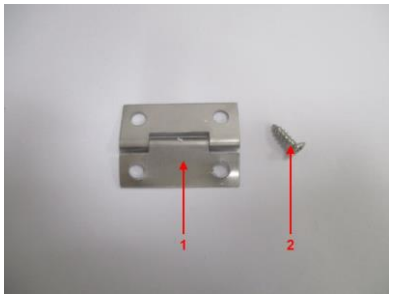
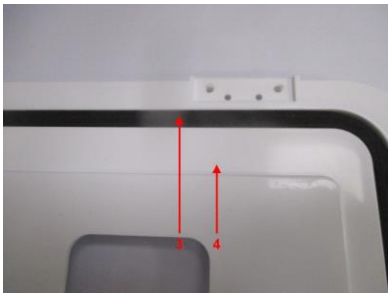
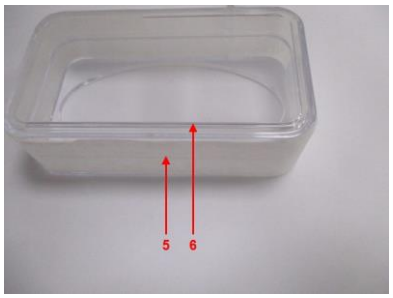
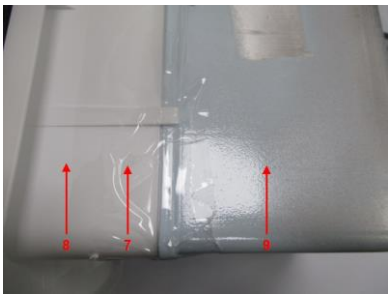
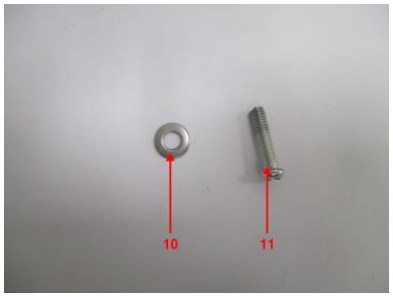
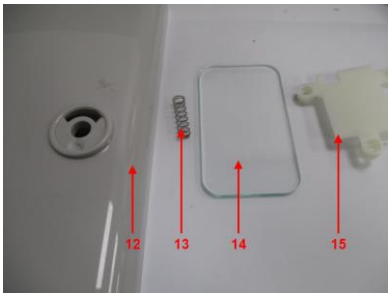
Parameter	CAS No.	Unit	MDL	Result		
				40+41+50+51 +52+53+54	18+19+20+21 +25	35+36+37+38 +39
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

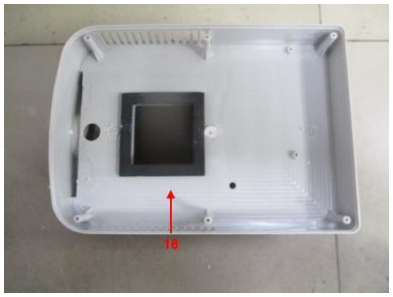
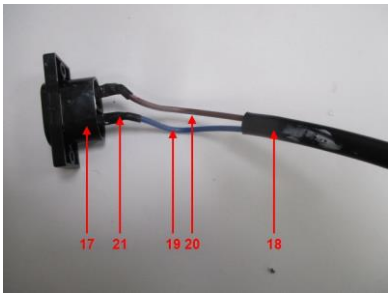
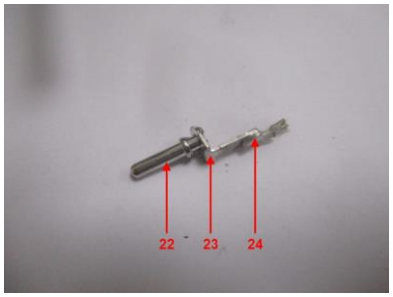
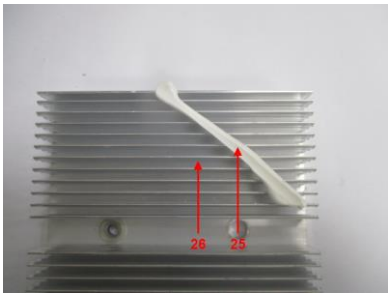
Parameter	CAS No.	Unit	MDL	Result		
				48+49+62+63 +64	66+70+76	77+78+80
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

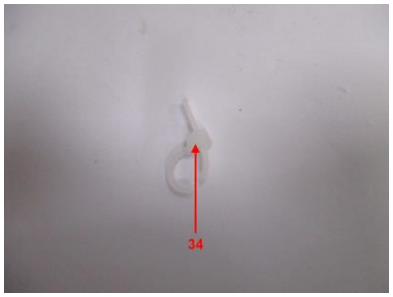
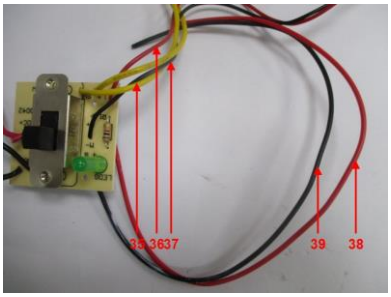
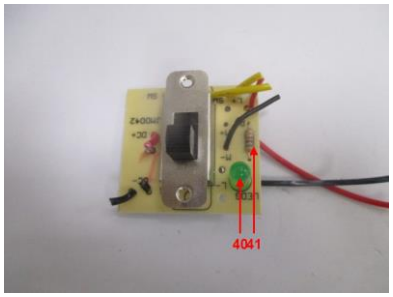
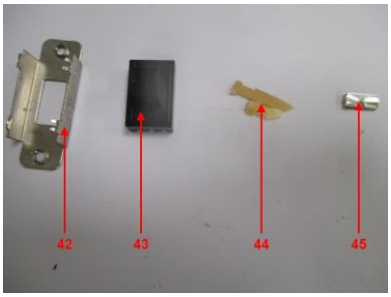
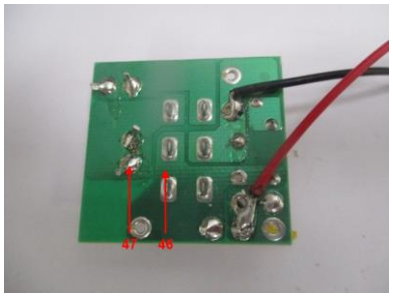
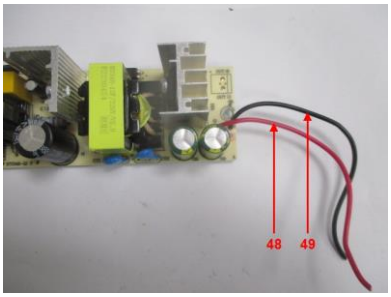
Parameter	CAS No.	Unit	MDL	Result		
				3+4+5+6+7 +8+12+15+16 +17	27+28+29+32 +34+43+44 +46+55+56	57+58+59+60 +67+68+69
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

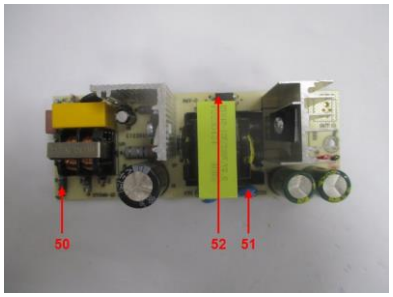
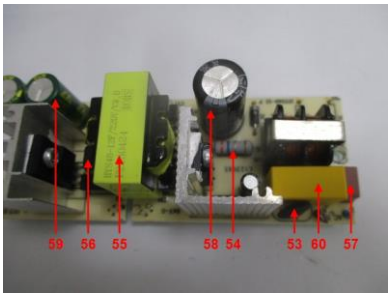
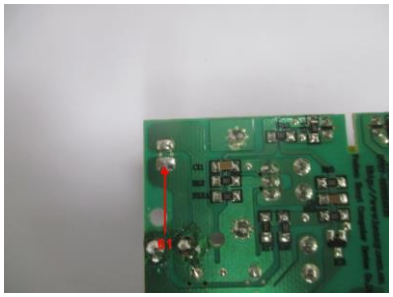
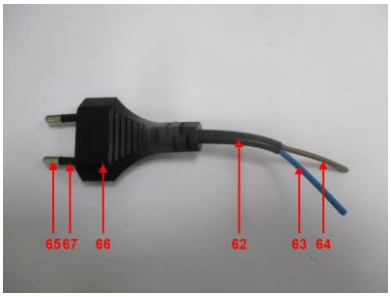
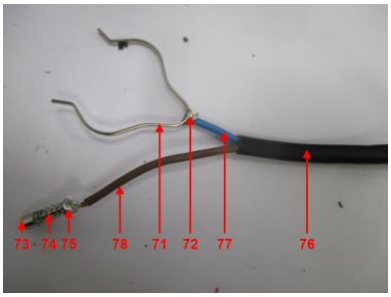
Note: mg/kg= milligram per kilogram % = percentage 1 mg/kg = 0.0001%
MDL = Method Detection Limit ND = Not Detected (< MDL) "-" = Not Regulated

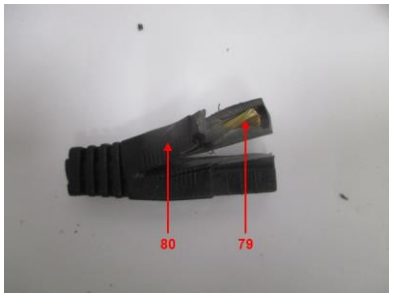
Comment :

Photograph(s) [Compliance Test for European Parliament and Council Directive 2011/65/EU] :	
Photograph depicting Test Item(s)	
	
	
	

 18	 17 21 19 20 18
 22 23 24	 26 25
 YAHENG 27 28 29	 30 31 32 33

 34	 35 36 37 39 38
 40 41	 42 43 44 45
 47 46	 48 49

 50 52 51	 59 56 55 58 54 53 60 57
 61	 65 67 66 62 63 64
 68 69 70	 73 74 75 78 71 72 77 76

END

APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Parliament and Council Directive 2011/65/EU] :

No.	Name of Analyte(s)	Detection Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF)[a]			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10[b]	1 000
2	Cadmium (Cd)	50	50	50	10[b]	100
3	Mercury (Hg)	100	200	200	10[c]	1 000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3[g, h] / 10[d] / See [e, i]	1 000 / Negative[i]
6	Bromine (Br)	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50[f]	Sum 1 000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Each 50[f]	Sum 1 000

NA = Not applicable IEC = International Electrotechnical Commission

[a] Test method with reference to International Standard IEC 62321-3-1: 2013.

[b] Test method with reference to International Standard IEC 62321-5: 2013.

[c] Test method with reference to International Standard IEC 62321-4: 2013+AMD1: 2017.

[d] Polymers and Electronics - Test method with reference to International Standard IEC 62321-7-2: 2017.

[e] Metal - Test method with reference to International Standard IEC 62321-7-1: 2015.

[f] Test method with reference to International Standard IEC 62321-6: 2015.

[g] Leather - Test method International Standard ISO 17075: 2017.

[h] Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2017.

[i] Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).

Testing Approach [Compliance Test for European Parliament and Council Directive 2011/65/EU] :

The testing approach was with reference to the following document(s).

1 International Standards IEC 62321-1: 2013 and IEC 62321-2: 2021

2 "RoHS Enforcement Guidance Document Version 1" by EU RoHS Enforcement Authorities Informal Network. (May 2006)

3 "RoHS Regulations - Government Guidance Notes" by United Kingdom Department for Business Innovation & Skills. (February 2011)

4 "Final Report to RoHS substances (Hg, Pb, Cr(VI), Cd, PBB and PBDE) in electrical and electronic equipment in Belgium" by Belgium Federal Public Service Health, Food Chain Safety and Environment. (November 2005)

Annex

The client declared that the materials used of below Styles are same as tested style.

CC10G, LY0818A, KWC-4, LY0204A, RJ48-BLACK-4-UK, RJ48-WHITE-4-UK, RJ48-PINK-4-UK, RJ48-BLUE-4-UK, RJ48-BLACK-4-EU, RJ48-WHITE-4-EU, RJ48-PINK-4-EU, RJ48-BLUE-4-EU, LY1904, LY1906, LY2006A, LY2206A, LY0309A, ASIM10N, ASIM10S, RJ48-BLACK-DE-UK, RJ48-BLACK-DE-EU, RJ48-M-PINK-UK, RJ48-M-WHITE-UK, RJ48-M-BLACK-UK, RJ48-M-BLUE-UK, RJ48-M-PINK-EU, RJ48-M-WHITE-EU, RJ48-M-BLACK-EU, RJ48-M-BLUE-EU, RJ48-4-ML-WHITE-EU, RJ48-4-ML-WHITE-UK, LY0204B, KRT04-BLACK-UK, KRT04-BLUE-UK, KRT04-PINK-UK, SP04, CZ04, DC04, FA04, LY0324, LY2304, LY2306, LY2010.

Remark:
Since the client was not able to provide the sample of additional Style, above additional Style(s) hasn't been tested, but only based on the guarantee letter provided by the client. Bureau Veritas-CPS takes no responsibility for any mistakes and the problems of product consistency caused by inaccurate and/or invalid information submitted by the client. The client will take the responsibility of all discrepancy and risk.