

TEST REPORT

REPORT No.: R2DG1805184156E

Date: May 29, 2018

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SHENZHEN IP-COM NETWORKS CO.,LTD.

Unit A, First Floor, Tower E3, No.1001, Zhongshanyuan Road, Nanshan District, Shenzhen, 518052 China

The test results are copied from the test report No. R2DG1804034095E, dated May 3, 2018.

Report on the submitted samples said to be:

Sample Description : 5km Outdoor Point to Point CPE
Style/Item No. : CPE9
Sample Receiving Date : April 3, 2018
Testing Period : From April 3, 2018 to May 3, 2018
Results : Please refer to next page(s).

Summary of Test Results:


TEST REQUEST


CONCLUSION

RoHS Directive 2011/65/EU and its amendment directives –XRF screening test and Wet
A Chemical Testing (Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs
content)

Pass

Signed for and on behalf of
BACL

Checked by: 
Jane Xu
Technical Supervisor

Approved by: 
William Wei
Laboratory Manager

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Results:

A. RoHS Directive 2011/65/EU and its amendment directives

XRF screening test

Test method: With reference to IEC62321-3-1:2013 screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1*	Black plastic(shell, EU adapter)	BL	BL	BL	BL	IN
2	Golden metal with silvery plating(connector, pin, EU adapter)	BL	BL	BL	BL	---
3	Black plastic(pin holder, EU adapter)	BL	BL	BL	BL	BL
4* ²	Silvery plated golden metal(pin, EU adapter)	OL	BL	BL	BL	---
5	Blue body with black printing(resistor"RV1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
6	Blue body with black printing(capacitor"CX1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
7	Black plastic with white printing(sleeve, fuse"F1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
8	Silvery metal(edge, fuse"F1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	---
9	White ceramic(shell, fuse"F1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
10	Silvery metal(pin, fuse"F1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	---
11*	Black body with grey printing(diode"D3", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	IN
12	Black plastic(sleeve, inductor"L1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
13	Coppery metal(coil, inductor"L1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	---
14	Black magnet(core, inductor"L1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
15	Blue plastic with white printing(sleeve, capacitor"EC3", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
16	Black plastic with white printing(sleeve, capacitor"EC294", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
17	Silvery metal(shell, capacitor"EC294", PCB)	BL	BL	BL	BL	---
18	Black rubber(base, capacitor"EC294", PCB)	BL	BL	BL	BL	BL
19	Transparent soft plastic(film, capacitor"EC294", PCB)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
20	Brown paper with liquid(film, capacitor"EC294", PCB)	BL	BL	BL	BL	BL
21	Silvery metal(foil, capacitor"EC294", PCB)	BL	BL	BL	BL	---
22	Dull silvery metal(foil, capacitor"EC294", PCB)	BL	BL	BL	BL	---
23	Silvery metal(connector, capacitor"EC294", PCB)	BL	BL	BL	BL	---
24	Silvery metal(pin, capacitor"EC294", PCB)	BL	BL	BL	BL	---
25	Yellow adhesive plastic with black printing(tape, inductor"LF1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
26	Copper metal(coil, inductor"LF1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	---
27	Black plastic(bobbin, inductor"LF1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
28	Black magnet(core, inductor"LF1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
29	Transparent adhesive plastic with black printing(label, transformer"T1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
30	Yellow adhesive plastic(tape, transformer"T1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
31	Black magnet(core, transformer"T1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
32	Copper metal(coil, transformer"T1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	---
33	Copper metal with yellow printing(coil, transformer"T1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	---
34	Black plastic(bobbin, transformer"T1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
35	Transparent soft plastic(interlayer, transformer"T1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
36	Black plastic(base, transformer"T1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
37* ¹	Red body(diode"D2", PCB"BN036-A12012C", EU adapter)	OL	BL	BL	BL	BL
38*	Black body(diode"D1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	IN
39	Brown body(capacitor"C294", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
40	Black body with white printing(resistor"R1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
41	Black body(IC"U1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
42	Black body(EC"BD1", PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	BL
43*	Green PCB(PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	IN
44	Silvery solder(PCB"BN036-A12012C", EU adapter)	BL	BL	BL	BL	---
45	Black soft plastic with white printing(wire jacket, cable, EU adapter)	BL	BL	BL	BL	BL
46	Coppery metal(wire, cable, EU adapter)	BL	BL	BL	BL	---
47	Black plastic(SR, cable, EU adapter)	BL	BL	BL	BL	BL
48	Black plastic(shell, plug, cable, EU adapter)	BL	BL	BL	BL	BL
49	Golden metal with silvery plating(shell, plug, cable, EU adapter)	BL	BL	BL	BL	---
50*	Black plastic(connector holder, plug, cable, EU adapter)	BL	BL	BL	BL	IN
51	Golden metal with silvery plating(connector, plug, cable, EU adapter)	BL	BL	BL	BL	---
52	Silvery solder(connector, plug, cable, EU adapter)	BL	BL	BL	BL	---
53*	Black plastic(shell, UK adapter)	BL	BL	BL	BL	IN
54	Blue plastic(wire jacket, pin, UK adapter)	BL	BL	BL	BL	BL
55	Coffee plastic(wire jacket, pin, UK adapter)	BL	BL	BL	BL	BL
56	Silvery metal(wire, pin, UK adapter)	BL	BL	BL	BL	---
57*	Black plastic(pin holder, UK adapter)	BL	BL	BL	BL	IN
58* ²	Silvery plated golden metal(pin, UK adapter)	OL	BL	BL	BL	---
59	Silvery solder(pin, UK adapter)	BL	BL	BL	BL	---
60	Blue body with black printing(resistor"RV1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
61	Blue body with black printing(capacitor"CX1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
62	Black plastic with white printing(sleeve, fuse"F1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
63	Silvery metal(edge, fuse"F1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	---
64	White ceramic(shell, fuse"F1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
65	Silvery metal(pin, fuse"F1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
66	Black body with grey printing(diode"D3", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
67	Black plastic(sleeve, inductor"L1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
68	Coppery metal(coil, inductor"L1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	---
69	Black magnet(core, inductor"L1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
70	Blue plastic with white printing(sleeve, capacitor"EC3", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
71	Black plastic with white printing(sleeve, capacitor"EC294", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
72	Silvery metal(shell, capacitor"EC294", PCB)	BL	BL	BL	BL	---
73	Black rubber(base, capacitor"EC294", PCB)	BL	BL	BL	BL	BL
74	Transparent soft plastic(film, capacitor"EC294", PCB)	BL	BL	BL	BL	BL
75	Brown paper with liquid(film, capacitor"EC294", PCB)	BL	BL	BL	BL	BL
76	Silvery metal(foil, capacitor"EC294", PCB)	BL	BL	BL	BL	---
77	Dull silvery metal(foil, capacitor"EC294", PCB)	BL	BL	BL	BL	---
78	Silvery metal(connector, capacitor"EC294", PCB)	BL	BL	BL	BL	---
79	Silvery metal(pin, capacitor"EC294", PCB)	BL	BL	BL	BL	---
80	Yellow adhesive plastic with black printing(tape, inductor"LF1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
81	Coppery metal(coil, inductor"LF1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	---
82	Black plastic(bobbin, inductor"LF1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
83	Black magnet(core, inductor"LF1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
84	Transparent adhesive plastic with black printing(label, transformer"T1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
85	Yellow adhesive plastic(tape, transformer"T1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
86	Black magnet(core, transformer"T1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
87	Coppery metal(coil, transformer"T1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
88	Coppery metal with yellow printing(coil, transformer" T1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	---
89	Black plastic(bobbin, transformer" T1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
90	Transparent soft plastic(interlayer, transformer" T1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
91	Black plastic(base, transformer" T1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
92*1	Red body(diode" D2", PCB"BN036-A12012C", UK adapter)	OL	BL	BL	BL	BL
93	Black body(diode" D1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
94	Brown body(capacitor" C294", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
95	Black body with white printing(resistor" R1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
96	Black body(IC" U1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
97	Black body(EC" BD1", PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	BL
98*	Green PCB(PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	IN
99	Silvery solder(PCB"BN036-A12012C", UK adapter)	BL	BL	BL	BL	---
100	Black soft plastic with white printing(wire jacket, cable, UK adapter)	BL	BL	BL	BL	BL
101	Coppery metal(wire, cable, UK adapter)	BL	BL	BL	BL	---
102	Black plastic(SR, cable, UK adapter)	BL	BL	BL	BL	BL
103	Black plastic(shell, plug, cable, UK adapter)	BL	BL	BL	BL	BL
104	Golden metal with silvery plating(shell, plug, cable, UK adapter)	BL	BL	BL	BL	---
105*	Black plastic(connector holder, plug, cable, UK adapter)	BL	BL	BL	BL	IN
106	Golden metal with silvery plating(connector, plug, cable, UK adapter)	BL	BL	BL	BL	---
107	Silvery solder(connector, plug, cable, UK adapter)	BL	BL	BL	BL	---
108	Transparent plastic(pin holder, plug, Ethernet cable)	BL	BL	BL	BL	BL
109	Grey soft plastic(sealing, plug, Ethernet cable)	BL	BL	BL	BL	BL
110	Golden metal with silvery plating(pin, plug, Ethernet cable)	BL	BL	BL	BL	---
111	Grey soft plastic(shell, plug, Ethernet cable)	BL	BL	BL	BL	BL

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		Pb	Cd	Hg	Cr	Br
112	Grey soft plastic(cable jacket, cable, Ethernet cable)	BL	BL	BL	BL	BL
113	Blue/white soft plastic(wire jacket, cable, Ethernet cable)	BL	BL	BL	BL	BL
114	Blue soft plastic(wire jacket, cable, Ethernet cable)	BL	BL	BL	BL	BL
115	Orange/white soft plastic(wire jacket, cable, Ethernet cable)	BL	BL	BL	BL	BL
116	Orange soft plastic(wire jacket, cable, Ethernet cable)	BL	BL	BL	BL	BL
117	Coffee/white soft plastic(wire jacket, cable, Ethernet cable)	BL	BL	BL	BL	BL
118	Coffee soft plastic(wire jacket, cable, Ethernet cable)	BL	BL	BL	BL	BL
119	Green/white soft plastic(wire jacket, cable, Ethernet cable)	BL	BL	BL	BL	BL
120	Green soft plastic(wire jacket, cable, Ethernet cable)	BL	BL	BL	BL	BL
121	Coppery metal(wire, cable, Ethernet cable)	BL	BL	BL	BL	---
122	White plastic(shell, PCB"10025414 V1.0")	BL	BL	BL	BL	BL
123*	Black plastic(shell, power socket"JP1", PCB"10025414 V1.0")	BL	BL	BL	BL	IN
124	Silvery metal(pin, power socket"JP1", PCB"10025414 V1.0")	BL	BL	BL	BL	---
125	Silvery metal(connector, power socket"JP1", PCB"10025414 V1.0")	BL	BL	BL	BL	---
126*	Yellow plastic(pin holder, net socket"J1", PCB"10025414 V1.0")	BL	BL	BL	BL	IN
127	Golden metal(pin, net socket"J1", PCB"10025414 V1.0")	BL	BL	BL	BL	---
128*	Cyan PCB(PCB"10025414 V1.0")	BL	BL	BL	BL	IN
129	Silvery solder(PCB"10025414 V1.0")	BL	BL	BL	BL	---
130	White plastic with grey printing(shell, Access Point)	BL	BL	BL	BL	BL
131	Green adhesive plastic with black printing(sticker, shell, Access Point)	BL	BL	BL	BL	BL
132	Silvery adhesive plastic with black printing(label, Access Point)	BL	BL	BL	BL	BL
133	White adhesive plastic with black printing(label, Access Point)	BL	BL	BL	BL	BL
134	Transparent adhesive plastic(film, Access Point)	BL	BL	BL	BL	BL
135*	Silvery metal with black coating(screw, Access Point)	BL	BL	BL	IN	---
136	White adhesive paper with black printing(sticker, inner, Access Point)	BL	BL	BL	BL	BL

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		Pb	Cd	Hg	Cr	Br
137	Lt blue soft silica gel(radiator, plate, Access Point)	BL	BL	BL	BL	BL
138	Silvery metal(nut, plate, Access Point)	BL	BL	BL	BL	---
139	Silvery metal(plate, Access Point)	BL	BL	BL	BL	---
140	Silvery solder(plate, Access Point)	BL	BL	BL	BL	---
141	Silvery metal(screw, PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	---
142	Silvery metal(gasket, screw, PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	---
143	Black soft plastic(wire jacket, PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	BL
144	Silvery metal(wire, PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	---
145	White plastic(terminal holder, terminal plug, PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	BL
146	Silvery metal(terminal, terminal plug, PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	---
147*	Beige plastic(pin holder, socket"CON1", PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	IN
148	Silvery metal(pin, socket"CON1", PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	---
149	Transparent body(LED"D1", PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	BL
150	Brown body(capacitor"C5", PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	BL
151	Black body(resistor"R5", PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	BL
152	Black body with white printing(resistor"R10", PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	BL
153*	Green PCB(PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	IN
154	Silvery solder(PCB"10035285 V2.0", Access Point)	BL	BL	BL	BL	---
155	Lt pink plastic(wire jacket, antenna, PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
156	Silvery metal(conductor, antenna, PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	---
157	Transparent plastic(interlayer, antenna, PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
158	Silvery metal(wire, antenna, PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	---
159*	Blue plastic(pin holder, net socket"RJ2", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	IN

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		Pb	Cd	Hg	Cr	Br
160	Silvery metal(pin, net socket"RJ2", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	---
161	Silvery metal(plate, PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	---
162	Silvery metal(shell, switch"SW1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	---
163	Black plastic(button, switch"SW1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
164	Silvery metal with golden plating(foil, switch"SW1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	---
165*	Black plastic(connector holder, switch"SW1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	IN
166	Silvery metal(connector, switch"SW1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	---
167	Green plastic with golden printing(sleeve, capacitor"C294", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
168	Silvery metal(shell, capacitor"C294")	BL	BL	BL	BL	---
169	Black rubber(base, capacitor"C294")	BL	BL	BL	BL	BL
170	Transparent soft plastic(film, capacitor"C294")	BL	BL	BL	BL	BL
171	Brown paper with liquid(film, capacitor"C294")	BL	BL	BL	BL	BL
172	Silvery metal(foil, capacitor"C294")	BL	BL	BL	BL	---
173	Dull silvery metal(foil, capacitor"C294")	BL	BL	BL	BL	---
174	Silvery metal(connector, capacitor"C294")	BL	BL	BL	BL	---
175	Silvery metal(pin, capacitor"C294")	BL	BL	BL	BL	---
176	Black plastic(shell, transformer"T1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
177	Coppery metal(coil, transformer"T1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	---
178	Coppery metal with red plating(coil, transformer"T1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	---
179	Coppery metal with green plating(coil, transformer"T1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	---
180	Black magnet(core, transformer"T1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
181	Black body(diode"D8", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
182	Dull grey body with black printing(inductor"L28", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
183	Black body(triode"Q3", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
184	Black body(IC"U1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
185	Silvery body(crystal"Y1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
186	Black plastic(base, crystal"Y1", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
187	Brown body(capacitor"C21", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
188	Black body with white printing(resistor"R119", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
189	Black body(resistor"R154", PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	BL
190*	Green PCB(PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	IN
191	Silvery solder(PCB"10035284 V2.1", Access Point)	BL	BL	BL	BL	---

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Remark:

(1)

--- = Not Conducted

* = Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	$BL \leq 70-3\sigma < X < 130+3\sigma \leq OL$	$BL \leq 70-3\sigma < X < 130+3\sigma \leq OL$	$LOD < X < 150+3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700-3\sigma < X < 1300+3\sigma \leq OL$	$BL \leq 700-3\sigma < X < 1300+3\sigma \leq OL$	$BL \leq 500-3\sigma < X < 1500+3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700-3\sigma < X < 1300+3\sigma \leq OL$	$BL \leq 700-3\sigma < X < 1300+3\sigma \leq OL$	$BL \leq 500-3\sigma < X < 1500+3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700-3\sigma < X$	$BL \leq 700-3\sigma < X$	$BL \leq 500-3\sigma < X$
Br	mg/kg	$BL \leq 300-3\sigma < X$	---	$BL \leq 250-3\sigma < X$

BL = Below Limit

OL = Over Limit

IN = Inconclusive

LOD = Limit of Detection

*¹ = As claimed by the material declaration submitted by the client, the materials of the sample No. 37、92 are glass. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.

*² = As claimed by the material declaration submitted by the client, the materials of the sample No. 4、58 are copper alloy. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

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

(3) The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium(Cd)	100
Lead(Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominate ddiphenylethers (PBDEs)	1000

(4) As requested by applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU and its amendment directives, other components were not screened included in this report.

(5) Photo appendix is included.

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect(e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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Wet Chemical Testing:

Test method:

Lead Content:

With reference to IEC62321-5:2013, by acid digestion and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) or Atomic Absorption Spectrometry (AAS).

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

1) The test results of Pb

Item	Unit	MDL	Results	
			4	58
Lead (Pb) Content	mg/kg	10	24790	18230

2) The test results of Cr (VI)

Item	Unit	MDL	Results	Limit
			135	
Hexavalent Chromium (Cr(VI))	µg/cm ²	0.10	N.D.	**
Conclusion	/	/	Pass	/

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Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- ** =
 - a. The sample is positive for CrVI if the CrVI concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$. The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10 \mu\text{g}/\text{cm}^2$). The coating is considered a non-CrVI based coating
 - c. The result between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ is considered to be inconclusive -unavoidable coating variations may influence the determination

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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3) The test results of PBBs & PBDEs

Item	Unit	MDL	Results					Limit
			1	11	38	43	50	
Polybrominated Biphenyls								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results				Limit
			53	57	98	105	
Polybrominated Biphenyls							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results				Limit
			123	126	128	147	
Polybrominated Biphenyls							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	251	N.D.	N.D.	
Total content	mg/kg	/	N.D.	251	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results				Limit
			153	159	165	190	
Polybrominated Biphenyls							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	385	N.D.	N.D.	
Total content	mg/kg	/	N.D.	385	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- The results less than MDL are not taken into account while calculating the sum contents.
- mg/kg = ppm
- Photo is included.

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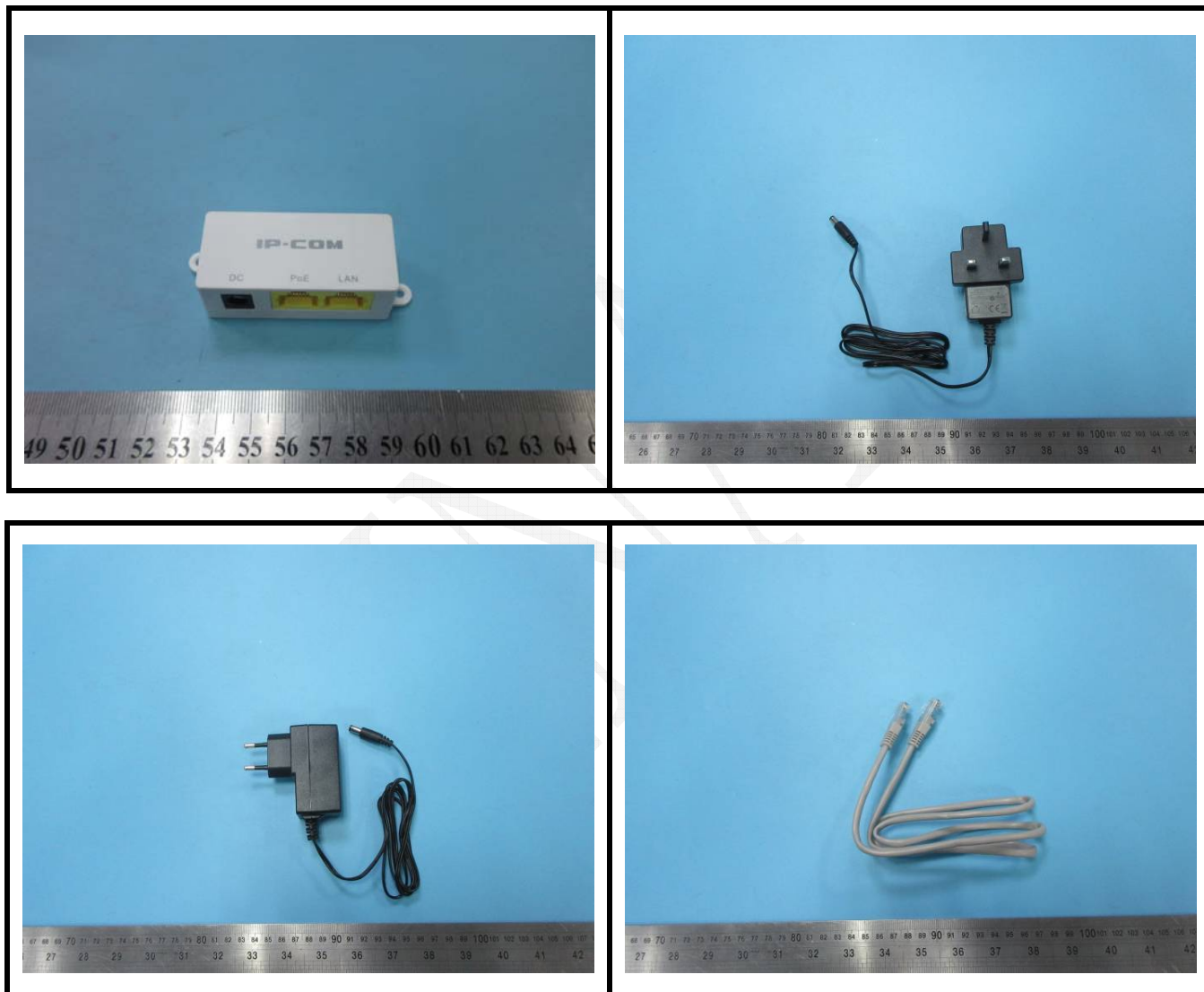
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Photograph of Sample



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