

TEST REPORT

REPORT No.: R2DG1803274086E

Date: April 11, 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. R2DG1801234032E, dated February 7, 2018.

Report on the submitted samples said to be:

Sample Description : 500m Outdoor Point to Point CPE
Style/Item No. : CPE3
Sample Receiving Date : January 24, 2018
Testing Period : From January 24, 2018 to February 7, 2018
Results : Please refer to next page(s).

Summary of Test Results:


TEST REQUEST


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)

CONCLUSION

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	Milk white plastic(tie, accessories)	BL	BL	BL	BL	BL
2	Green plastic(bolt, Accessories)	BL	BL	BL	BL	BL
3*	Silvery metal with light blue plating(screw, Accessories)	BL	BL	BL	IN	---
4	White plastic(bottom shell, PoE injector)	BL	BL	BL	BL	BL
5	White plastic with silvery printing(top shell, PoE injector)	BL	BL	BL	BL	BL
6*	Yellow plastic(pin holder, PCB, PoE injector)	BL	BL	BL	BL	IN
7	Silvery metal(pin, PCB, PoE injector)	BL	BL	BL	BL	---
8*	Black plastic(pin holder, power socket, PoE injector)	BL	BL	BL	BL	IN
9	Silvery metal(pin, power socket, PoE injector)	BL	BL	BL	BL	---
10	Silvery metal(connector, power socket, PoE injector)	BL	BL	BL	BL	---
11	Silvery solder(PCB, PoE injector)	BL	BL	BL	BL	---
12*	Navy PCB(PoE injector)	BL	BL	BL	BL	IN
13	Silvery plastic with black printing(label, shell, CPE)	BL	BL	BL	BL	BL
14	Green adhesive paper(sticker, shell,CPE)	BL	BL	BL	BL	BL
15	Silvery metal(screw, shell, CPE)	BL	BL	BL	BL	---
16	White plastic(button, shell,CPE)	BL	BL	BL	BL	BL
17	White adhesive paper with black printing(label, shell,CPE)	BL	BL	BL	BL	BL
18	White plastic with silvery printing(shell, CPE)	BL	BL	BL	BL	BL
19	White adhesive plastic with black printing(label, shell, CPE)	BL	BL	BL	BL	BL
20	Silvery metal(screw, PCB"10033954 V1.1" fixer , CPE)	BL	BL	BL	BL	---
21	White glue(PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
22*	Green PCB(PCB"10034045 V1.0" , CPE)	BL	BL	BL	BL	IN
23	Silvery metal(nut, PCB"10034045 V1.0" , CPE)	BL	BL	BL	BL	---
24	Silvery metal(plate, screw,PCB"10034045 V1.0" , CPE)	BL	BL	BL	BL	---
25	Silvery metal(screw,PCB"10034045 V1.0" , CPE)	BL	BL	BL	BL	---
26	White plastic(cushion, PCB"10034045 V1.0" , CPE)	BL	BL	BL	BL	BL
27	Translucent plastic(cushion, PCB"10034045 V1.0" , CPE)	BL	BL	BL	BL	BL
28	White plastic(PCB"10033954 V1.1" fixer , CPE)	BL	BL	BL	BL	BL
29*	Black plastic(cushion, PCB"10034043" V1.0)	BL	BL	BL	BL	IN
30	Silvery solder(PCB"10034043" V1.0, CPE)	BL	BL	BL	BL	---
31*	Green PCB(PCB"10034043" V1.0, CPE)	BL	BL	BL	BL	IN
32	Transparent plastic(lens, LED, PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	BL
33	Black adhesive plastic(cushion, lens, LED, PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	BL
34*	Silvery metal(shield, PCB"10033954 V1.1" , CPE)	BL	BL	BL	IN	---
35*	Black plastic(pin holder,socket"J4", PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	IN
36	Silvery metal(pin, socket"J4", PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	---
37	Silvery metal(connector, socket"J4", PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	---
38	Black plastic(button,switch"SW1", PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	BL
39	Silvery metal(shell, switch"SW1", PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	---
40	Copper/silvery metal(foil, switch"SW1", PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	---
41	Silvery metal(connector, switch"SW1", PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	---
42	Black plastic(base, switch"SW1", PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	BL
43*	Blue plastic(pin holder,socket"RJ12", PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	IN
44	Silvery metal(pin, socket"RJ12", PCB"10033954 V1.1" , CPE)	BL	BL	BL	BL	---
45	Green plastic with white printing(sleeve,capacitor"C995", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
46	Silvery metal(shell, capacitor"C995", PCB"10033954 V1.1")	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
47	Silvery metal(connector, capacitor"C995", PCB"10033954 V1.1")	BL	BL	BL	BL	---
48	Silvery metal(pin, capacitor"C995", PCB"10033954 V1.1")	BL	BL	BL	BL	---
49	Silvery metal(foil, capacitor"C995", PCB"10033954 V1.1")	BL	BL	BL	BL	---
50	Dull silvery metal(foil, capacitor"C995", PCB"10033954 V1.1")	BL	BL	BL	BL	---
51	Black soft rubber(base, capacitor"C995", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
52	Transparent adhesive plastic(tape, capacitor"C995", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
53	Brown paper with liquid(film, capacitor"C995", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
54	Black body(IC"U26", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
55	Black body(diode"D8", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
56	Black magnet(core,inductor"L438", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
57	Coppery metal(coil, inductor"L438", PCB"10033954 V1.1")	BL	BL	BL	BL	---
58	Black body(EC"RV", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
59	Black body with white printing(transformer"T2", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
60	Black body(IC"U11", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
61	Silvery body(crystal, PCB"10033954 V1.1")	BL	BL	BL	BL	BL
62	Brown body(capacitor"C609", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
63	Transparent body(LED"D18", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
64	Black body(IC"U11", PCB"10033954 V1.1")	BL	BL	BL	BL	BL
65	Silvery solder(PCB"10033954 V1.1")	BL	BL	BL	BL	---
66*	Green PCB(PCB"10033954 V1.1")	BL	BL	BL	BL	IN

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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

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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:

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 Cr (VI)

Item	Unit	MDL	Results		Limit
			3	34	
Hexavalent Chromium (Cr(VI))	µg/cm ²	0.10	N.D.	N.D.	**
Conclusion	/	/	Pass	Pass	/

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 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² 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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2) The test results of PBBs & PBDEs

Item	Unit	MDL	Results				Limit
			6	8	12	22	
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
			29	31	35	43	66	
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	/

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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Photograph of Sample



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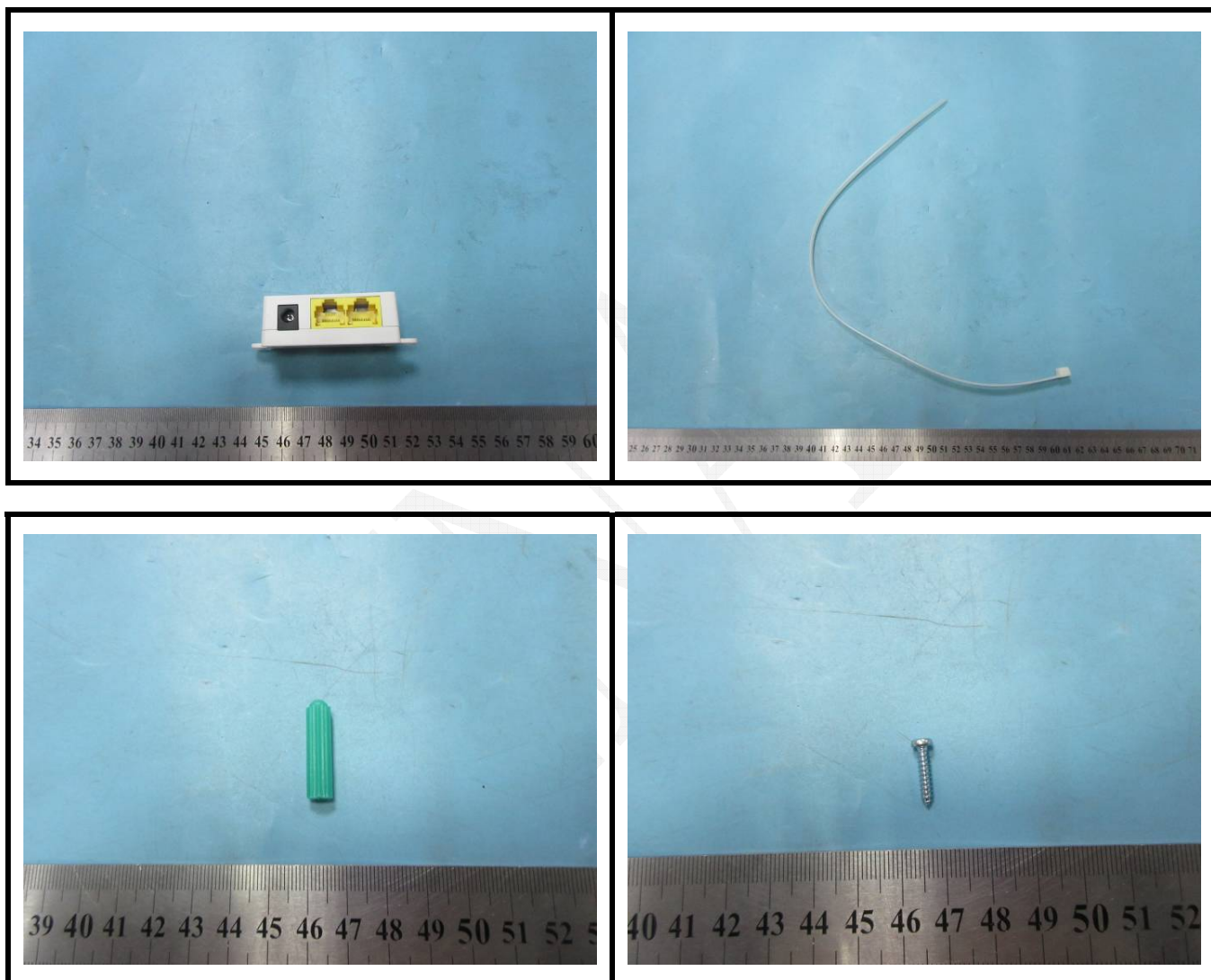
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