



Test Report

No.T51910261505TC

Date: AUG 12, 2019

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FUJIAN FUAN WENDY ELECTRICAL MACHINERY CO., LTD.
QIN XI YANG INDUSTRIAL ZONE FUAN, FUFIAN 355000 CHINA

The following samples were submitted and identified by/on behalf of the client as:

WATER PUMP

Item No. : JSP 600S/800S/1000S/1200S + 19L/24L/24LSS/50L; JSP
400/600/800/1000/1200/1500F3 + 19L/24L/24LSS/50L; MH/MHB/MHS/MHP
60-90-120-145-170 2-10M/T + 50L/60L/100L; MV/MVL 60-90-120-145-170
2-10 M/T; 2CP2000 / KG130; IDB-35/50, MF60/60B/70/80/90/100; SPO
55-65-85-105

Sample Receiving Date : JUL 12, 2019

Further Information Date : AUG 06, 2019

Testing Period : JUL 12, 2019 TO AUG 06, 2019

Test Requested		Conclusion
1.	European RoHS Directive 2015/863/EU amending Annex II to Directive 2011/65/EU – Certain hazardous substances in the specified specimen(s) as listed	--
	Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) Content Screening by X-ray fluorescence spectrometry and analysis by wet chemical	PASS
	Phthalate Content	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center



T51910261505TC

Qu Ping, Kiky
Dept. Manager



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Results:
1.1 EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - XRF

Method: With reference to IEC 62321-3-1:2013

Analysis was performed by X-ray Fluorescence Spectrometry (XRF)

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
1	Silvery label paper w/ black printing	BL	BL	BL	BL	BL	PASS
2	Silvery metal shell	BL	BL	BL	NA	X	Refer to chemical method
3	Black rubber inner bile	BL	BL	BL	BL	BL	PASS
4	Iridescent metal part	BL	BL	BL	NA	X	Refer to chemical method
5	Beige plastic part	BL	BL	BL	BL	BL	PASS
6	Black plastic nut	BL	BL	BL	BL	BL	PASS
7	Black rubber ring	BL	BL	BL	BL	BL	PASS
8	Cream plastic part	BL	BL	BL	BL	BL	PASS
9	Black plastic shell	BL	BL	BL	BL	BL	PASS
10	Silvery Blue metal ring	BL	BL	BL	NA	X	Refer to chemical method
11	Silvery metal part	BL	BL	BL	NA	BL	PASS
12	Silvery blue metal torsional spring	BL	BL	BL	NA	X	Refer to chemical method
13	Silvery metal spring	BL	BL	BL	NA	X	Refer to chemical method
14	Silvery blue metal part	BL	BL	BL	NA	X	Refer to chemical method
15	Silvery metal connector	OL ###1	BL	BL	NA	BL	PASS
16	Coppery metal connected part	BL	BL	BL	NA	BL	PASS
17	Iridescent metal washer	BL	BL	BL	NA	X	Refer to chemical method
18	Iridescent metal square washer	BL	BL	BL	NA	X	Refer to chemical method



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
19	Silvery blue metal nut	BL	BL	BL	NA	X	Refer to chemical method
20	Black powder(Pressure gauge)	BL	BL	BL	BL	BL	PASS
21	Transparent plastic round platform(Pressure gauge)	BL	BL	BL	BL	BL	PASS
22	Silvery metal ring w/ black surface(Pressure gauge)	BL	BL	BL	NA	BL	PASS
23	Dull coppery metal connected part(Pressure gauge)	BL	BL	BL	NA	BL	PASS
24	Golden metal part(Pressure gauge)	BL	BL	BL	NA	BL	PASS
25	Golden metal pin(Pressure gauge)	BL	OL	BL	NA	BL	Refer to chemical method
26	Golden metal wire(Pressure gauge)	BL	BL	BL	NA	BL	PASS
27	Silvery metal fixed part(Pressure gauge)	BL	BL	BL	NA	BL	PASS
28	Silvery metal rivetshaft(Pressure gauge)	BL	BL	BL	NA	BL	PASS
29	Silvery metal dial plate(Pressure gauge)	BL	BL	BL	NA	BL	PASS
30	Silvery metal cover(Pressure gauge)	BL	OL	BL	NA	BL	Refer to chemical method
31	Silvery metal pin(Pressure gauge)	BL	BL	BL	NA	X	Refer to chemical method
32	Black rubber ring(Pressure gauge)	BL	BL	BL	BL	BL	PASS
33	White powder(Pressure gauge)	BL	BL	BL	BL	BL	PASS
34	Silvery metal wire(Pressure gauge)	BL	BL	BL	NA	BL	PASS
35	Blue plastic thread(Pressure gauge)	BL	BL	BL	BL	BL	PASS
36	Red plastic thread(Pressure gauge)	BL	BL	BL	BL	BL	PASS
37	Black rubber washer (Big) (Motor)	BL	BL	BL	BL	BL	PASS
38	Apricot plastic cover (Motor)	BL	BL	BL	BL	BL	PASS
39	Silvery metal cover (Motor)	BL	BL	BL	NA	X	Refer to chemical method
40	Silvery metal washer (Motor)	BL	BL	BL	NA	BL	PASS
41	Black plastic fan (Motor)	BL	BL	BL	X	BL	Refer to chemical method
42	Green coating (Motor)	BL	BL	BL	BL	BL	PASS
43	Silvery metal shell (Big) (Motor)	OL	OL	BL	NA	BL	Refer to chemical method



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
44	Silvery metal cover w/ black surface (Motor)	BL	BL	BL	NA	BL	PASS
45	Silvery metal circlip (Motor)	BL	BL	BL	NA	X	Refer to chemical method
46	White ceramic ring (Motor)	BL	BL	BL	BL	BL	PASS
47	Black metal washer (Motor)	BL	BL	BL	NA	X	Refer to chemical method
48	Black rubber washer (Small) (Motor)	BL	BL	BL	BL	BL	PASS
49	Silvery metal spring (Motor)	BL	BL	BL	NA	X	Refer to chemical method
50	Silvery metal ring (Motor)	BL	BL	BL	NA	X	Refer to chemical method
51	Black material (Motor)	BL	BL	BL	NA	BL	PASS
52	Black rubber fixed part (Motor)	BL	BL	BL	BL	BL	PASS
53	Silvery metal iump (Motor)	BL	BL	BL	NA	BL	PASS
54	Silvery metal shaft (Motor)	BL	X	BL	NA	BL	Refer to chemical method
55	White woven tube (Motor)	BL	BL	BL	BL	BL	PASS
56	Cream woven rope (Motor)	BL	BL	BL	BL	BL	PASS
57	Silvery metal rotor plate (Motor)	BL	BL	BL	NA	X	Refer to chemical method
58	Cream plastic sheet (Motor)	BL	BL	BL	BL	BL	PASS
59	Coppery enameled wire (Motor)	BL	BL	BL	BL	BL	PASS
60	Transparent plastic tube (Motor)	BL	BL	BL	BL	BL	PASS
61	Silvery metal part (Motor)	BL	BL	BL	NA	BL	PASS
62	Silvery metal plate (Motor)	BL	BL	BL	NA	BL	PASS
63	Coppery w/ silvery metal electric contact (Motor)	OL ###1	BL	BL	NA	BL	PASS
64	Silvery metal cover (Small) (Motor)	BL	BL	BL	NA	BL	PASS
65	Black rubber (Bearing)	BL	BL	BL	BL	BL	PASS
66	Silvery w/ golden metal ring (Bearing)	BL	BL	BL	NA	BL	PASS
67	Silvery metal ring (Big) (Bearing)	BL	BL	BL	NA	X	Refer to chemical method
68	Silvery metal ring (Small) (Bearing)	BL	BL	BL	NA	X	Refer to chemical method
69	Silvery metal fixed part (Bearing)	BL	BL	BL	NA	BL	PASS
70	Silvery metal bead (Bearing)	BL	BL	BL	NA	X	Refer to chemical method



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
71	Black soft plastic (Plug)	BL	BL	BL	BL	BL	PASS
72	Silvery metal part (Plug)	BL	BL	BL	NA	BL	PASS
73	Silvery metal pin (Plug)	BL	OL	BL	NA	BL	Refer to chemical method
74	Black plastic (Plug)	BL	BL	BL	X	BL	Refer to chemical method
75	Gray plastic shell (Electrolytic capacitor)	BL	BL	BL	X	BL	Refer to chemical method
76	Black plastic shell (Electrolytic capacitor)	BL	BL	BL	X	BL	Refer to chemical method
77	Transparent plastic sheet (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS
78	Silvery foil paper (Electrolytic capacitor)	BL	BL	BL	NA	BL	PASS
79	Silvery material (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS
80	Yellow plastic tube (Electrolytic capacitor)	BL	BL	BL	X	BL	Refer to chemical method
81	Red plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
82	Black plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
83	Black plastic (Outside) (Wire jacket)	BL	BL	BL	BL	BL	PASS
84	Blue plastic (Inside) (Wire jacket)	BL	BL	BL	BL	BL	PASS
85	Yellow plastic (Inside) (Wire jacket)	BL	BL	BL	BL	BL	PASS
86	Yellow w/ blue plastic (Inside) (Wire jacket)	BL	BL	BL	BL	BL	PASS
87	Silvery metal core wire	BL	BL	BL	NA	BL	PASS
88	Coppery metal core wire	BL	BL	BL	NA	BL	PASS
89	Silvery metal nut	BL	BL	BL	NA	BL	PASS
90	Black metal screw	BL	BL	BL	NA	BL	PASS
91	Silvery blue metal screw	BL	BL	BL	NA	X	Refer to chemical method
92	Silvery metal screw	BL	BL	BL	NA	X	Refer to chemical method
93	Red coating	BL	BL	BL	BL	BL	PASS
94	Blue coating	BL	BL	BL	BL	BL	PASS
95	Black coating	BL	BL	BL	BL	BL	PASS
96	Transparent plastic cover	BL	BL	BL	BL	BL	PASS
97	Silvery metal shaft	BL	BL	BL	NA	X	Refer to chemical method



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
98	Silvery metal washer	BL	BL	BL	NA	X	Refer to chemical method
99	Silvery white metal shell	BL	BL	BL	NA	X	Refer to chemical method

RoHS Restricted Substances	Maximum Concentration Value (by weight in homogenous materials)
Lead (Pb)	0.1%
Cadmium (Cd)	0.01%
Mercury (Hg)	0.1%
Hexavalent Chromium (Cr VI)	0.1%
Polybrominated biphenyls (PBBs)	0.1%
Polybrominated diphenylethers (PBDEs)	0.1%

Remark: (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for CrVI) and GC/MS (for PBBs/PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013

Element	Unit	Non-metal	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	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	mg/kg	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	mg/kg	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$



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BL = Below Limit by XRF analysis

OL = Over Limit by XRF analysis

X = Inconclusive

LOD = Limit of Detection

NA = Not Applicable

1% = 10000 mg/kg = 10000 ppm

- (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 the EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU

Note: - ###¹ According to the product specification provided from client, it is possible the source of cadmium in specimen No.15, No.63 could be from the electrical contacts which is exempted by RoHS regulatory (Directive 2015/863/EU amending Annex II to Directive 2011/65/EU of The European Parliament and of The Council of 31 March 2015). However, the numerical result of detected restricted substances in specimen No.15, No.63 cannot be related back to the concentration of the substances in the original homogeneous material.



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1.2 EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Wet Chemical for Lead, Cadmium, Hexavalent Chromium, PBBs & PBDEs content

Method: With reference to IEC62321-5:2013, IEC62321-7-1:2015, IEC62321-6:2015

For Lead, Cadmium, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS)

For Hexavalent Chromium, analysis was performed by Ultraviolet Visible Spectrophotometer (UV-Vis)

For PBBs & PBDEs, analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	2	4	10		
Lead (Pb)	--	--	--	10	1000
Cadmium(Cd)	--	--	--	10	100
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	Negative	Negative	See Note	#
Sum of PBBs	--	--	--	--	1000
Monobromobiphenyl	--	--	--	100	--
Dibromobiphenyl	--	--	--	100	--
Tribromobiphenyl	--	--	--	100	--
Tetrabromobiphenyl	--	--	--	100	--
Pentabromobiphenyl	--	--	--	100	--
Hexabromobiphenyl	--	--	--	100	--
Heptabromobiphenyl	--	--	--	100	--
Octabromobiphenyl	--	--	--	100	--
Nonabromobiphenyl	--	--	--	100	--
Decabromobiphenyl	--	--	--	100	--
Sum of PBDEs	--	--	--	--	1000
Monobromodiphenyl ether	--	--	--	100	--
Dibromodiphenyl ether	--	--	--	100	--
Tribromodiphenyl ether	--	--	--	100	--
Tetrabromodiphenyl ether	--	--	--	100	--
Pentabromodiphenyl ether	--	--	--	100	--
Hexabromodiphenyl ether	--	--	--	100	--
Heptabromodiphenyl ether	--	--	--	100	--
Octabromodiphenyl ether	--	--	--	100	--
Nonabromodiphenyl ether	--	--	--	100	--
Decabromodiphenyl ether	--	--	--	100	--
Comment	PASS	PASS	PASS	--	--

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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	12	13	14		
Lead (Pb)	--	--	--	10	1000
Cadmium(Cd)	--	--	--	10	100
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	Negative	Negative	See Note	#
Sum of PBBs	--	--	--	--	1000
Monobromobiphenyl	--	--	--	100	--
Dibromobiphenyl	--	--	--	100	--
Tribromobiphenyl	--	--	--	100	--
Tetrabromobiphenyl	--	--	--	100	--
Pentabromobiphenyl	--	--	--	100	--
Hexabromobiphenyl	--	--	--	100	--
Heptabromobiphenyl	--	--	--	100	--
Octabromobiphenyl	--	--	--	100	--
Nonabromobiphenyl	--	--	--	100	--
Decabromobiphenyl	--	--	--	100	--
Sum of PBDEs	--	--	--	--	1000
Monobromodiphenyl ether	--	--	--	100	--
Dibromodiphenyl ether	--	--	--	100	--
Tribromodiphenyl ether	--	--	--	100	--
Tetrabromodiphenyl ether	--	--	--	100	--
Pentabromodiphenyl ether	--	--	--	100	--
Hexabromodiphenyl ether	--	--	--	100	--
Heptabromodiphenyl ether	--	--	--	100	--
Octabromodiphenyl ether	--	--	--	100	--
Nonabromodiphenyl ether	--	--	--	100	--
Decabromodiphenyl ether	--	--	--	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	17	18	19		
Lead (Pb)	--	--	--	10	1000
Cadmium(Cd)	--	--	--	10	100
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	Negative	Negative	See Note	#
Sum of PBBs	--	--	--	--	1000
Monobromobiphenyl	--	--	--	100	--
Dibromobiphenyl	--	--	--	100	--
Tribromobiphenyl	--	--	--	100	--
Tetrabromobiphenyl	--	--	--	100	--
Pentabromobiphenyl	--	--	--	100	--
Hexabromobiphenyl	--	--	--	100	--
Heptabromobiphenyl	--	--	--	100	--
Octabromobiphenyl	--	--	--	100	--
Nonabromobiphenyl	--	--	--	100	--
Decabromobiphenyl	--	--	--	100	--
Sum of PBDEs	--	--	--	--	1000
Monobromodiphenyl ether	--	--	--	100	--
Dibromodiphenyl ether	--	--	--	100	--
Tribromodiphenyl ether	--	--	--	100	--
Tetrabromodiphenyl ether	--	--	--	100	--
Pentabromodiphenyl ether	--	--	--	100	--
Hexabromodiphenyl ether	--	--	--	100	--
Heptabromodiphenyl ether	--	--	--	100	--
Octabromodiphenyl ether	--	--	--	100	--
Nonabromodiphenyl ether	--	--	--	100	--
Decabromodiphenyl ether	--	--	--	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	25	30	31		
Lead (Pb)	27392###2	26541###2	--	10	1000
Cadmium(Cd)	--	--	--	10	100
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	Negative	See Note	#
Sum of PBBs	--	--	--	--	1000
Monobromobiphenyl	--	--	--	100	--
Dibromobiphenyl	--	--	--	100	--
Tribromobiphenyl	--	--	--	100	--
Tetrabromobiphenyl	--	--	--	100	--
Pentabromobiphenyl	--	--	--	100	--
Hexabromobiphenyl	--	--	--	100	--
Heptabromobiphenyl	--	--	--	100	--
Octabromobiphenyl	--	--	--	100	--
Nonabromobiphenyl	--	--	--	100	--
Decabromobiphenyl	--	--	--	100	--
Sum of PBDEs	--	--	--	--	1000
Monobromodiphenyl ether	--	--	--	100	--
Dibromodiphenyl ether	--	--	--	100	--
Tribromodiphenyl ether	--	--	--	100	--
Tetrabromodiphenyl ether	--	--	--	100	--
Pentabromodiphenyl ether	--	--	--	100	--
Hexabromodiphenyl ether	--	--	--	100	--
Heptabromodiphenyl ether	--	--	--	100	--
Octabromodiphenyl ether	--	--	--	100	--
Nonabromodiphenyl ether	--	--	--	100	--
Decabromodiphenyl ether	--	--	--	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	39	41	43		
Lead (Pb)	--	--	743	10	1000
Cadmium(Cd)	--	--	ND	10	100
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	--	--	See Note	#
Sum of PBBs	--	ND	--	--	1000
Monobromobiphenyl	--	ND	--	100	--
Dibromobiphenyl	--	ND	--	100	--
Tribromobiphenyl	--	ND	--	100	--
Tetrabromobiphenyl	--	ND	--	100	--
Pentabromobiphenyl	--	ND	--	100	--
Hexabromobiphenyl	--	ND	--	100	--
Heptabromobiphenyl	--	ND	--	100	--
Octabromobiphenyl	--	ND	--	100	--
Nonabromobiphenyl	--	ND	--	100	--
Decabromobiphenyl	--	ND	--	100	--
Sum of PBDEs	--	904	--	--	1000
Monobromodiphenyl ether	--	ND	--	100	--
Dibromodiphenyl ether	--	ND	--	100	--
Tribromodiphenyl ether	--	ND	--	100	--
Tetrabromodiphenyl ether	--	ND	--	100	--
Pentabromodiphenyl ether	--	ND	--	100	--
Hexabromodiphenyl ether	--	ND	--	100	--
Heptabromodiphenyl ether	--	ND	--	100	--
Octabromodiphenyl ether	--	ND	--	100	--
Nonabromodiphenyl ether	--	ND	--	100	--
Decabromodiphenyl ether	--	904	--	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	45	47	49		
Lead (Pb)	--	--	--	10	1000
Cadmium(Cd)	--	--	--	10	100
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	Negative	Negative	See Note	#
Sum of PBBs	--	--	--	--	1000
Monobromobiphenyl	--	--	--	100	--
Dibromobiphenyl	--	--	--	100	--
Tribromobiphenyl	--	--	--	100	--
Tetrabromobiphenyl	--	--	--	100	--
Pentabromobiphenyl	--	--	--	100	--
Hexabromobiphenyl	--	--	--	100	--
Heptabromobiphenyl	--	--	--	100	--
Octabromobiphenyl	--	--	--	100	--
Nonabromobiphenyl	--	--	--	100	--
Decabromobiphenyl	--	--	--	100	--
Sum of PBDEs	--	--	--	--	1000
Monobromodiphenyl ether	--	--	--	100	--
Dibromodiphenyl ether	--	--	--	100	--
Tribromodiphenyl ether	--	--	--	100	--
Tetrabromodiphenyl ether	--	--	--	100	--
Pentabromodiphenyl ether	--	--	--	100	--
Hexabromodiphenyl ether	--	--	--	100	--
Heptabromodiphenyl ether	--	--	--	100	--
Octabromodiphenyl ether	--	--	--	100	--
Nonabromodiphenyl ether	--	--	--	100	--
Decabromodiphenyl ether	--	--	--	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	50	54	57		
Lead (Pb)	--	583	--	10	1000
Cadmium(Cd)	--	--	--	10	100
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	--	Negative	See Note	#
Sum of PBBs	--	--	--	--	1000
Monobromobiphenyl	--	--	--	100	--
Dibromobiphenyl	--	--	--	100	--
Tribromobiphenyl	--	--	--	100	--
Tetrabromobiphenyl	--	--	--	100	--
Pentabromobiphenyl	--	--	--	100	--
Hexabromobiphenyl	--	--	--	100	--
Heptabromobiphenyl	--	--	--	100	--
Octabromobiphenyl	--	--	--	100	--
Nonabromobiphenyl	--	--	--	100	--
Decabromobiphenyl	--	--	--	100	--
Sum of PBDEs	--	--	--	--	1000
Monobromodiphenyl ether	--	--	--	100	--
Dibromodiphenyl ether	--	--	--	100	--
Tribromodiphenyl ether	--	--	--	100	--
Tetrabromodiphenyl ether	--	--	--	100	--
Pentabromodiphenyl ether	--	--	--	100	--
Hexabromodiphenyl ether	--	--	--	100	--
Heptabromodiphenyl ether	--	--	--	100	--
Octabromodiphenyl ether	--	--	--	100	--
Nonabromodiphenyl ether	--	--	--	100	--
Decabromodiphenyl ether	--	--	--	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
	67	68		
Lead (Pb)	--	--	10	1000
Cadmium(Cd)	--	--	10	100
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	Negative	See Note	#
Sum of PBBs	--	--	--	1000
Monobromobiphenyl	--	--	100	--
Dibromobiphenyl	--	--	100	--
Tribromobiphenyl	--	--	100	--
Tetrabromobiphenyl	--	--	100	--
Pentabromobiphenyl	--	--	100	--
Hexabromobiphenyl	--	--	100	--
Heptabromobiphenyl	--	--	100	--
Octabromobiphenyl	--	--	100	--
Nonabromobiphenyl	--	--	100	--
Decabromobiphenyl	--	--	100	--
Sum of PBDEs	--	--	--	1000
Monobromodiphenyl ether	--	--	100	--
Dibromodiphenyl ether	--	--	100	--
Tribromodiphenyl ether	--	--	100	--
Tetrabromodiphenyl ether	--	--	100	--
Pentabromodiphenyl ether	--	--	100	--
Hexabromodiphenyl ether	--	--	100	--
Heptabromodiphenyl ether	--	--	100	--
Octabromodiphenyl ether	--	--	100	--
Nonabromodiphenyl ether	--	--	100	--
Decabromodiphenyl ether	--	--	100	--
Comment	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	70	73	74		
Lead (Pb)	--	20269###2	--	10	1000
Cadmium(Cd)	--	--	--	10	100
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	--	--	See Note	#
Sum of PBBs	--	--	ND	--	1000
Monobromobiphenyl	--	--	ND	100	--
Dibromobiphenyl	--	--	ND	100	--
Tribromobiphenyl	--	--	ND	100	--
Tetrabromobiphenyl	--	--	ND	100	--
Pentabromobiphenyl	--	--	ND	100	--
Hexabromobiphenyl	--	--	ND	100	--
Heptabromobiphenyl	--	--	ND	100	--
Octabromobiphenyl	--	--	ND	100	--
Nonabromobiphenyl	--	--	ND	100	--
Decabromobiphenyl	--	--	ND	100	--
Sum of PBDEs	--	--	ND	--	1000
Monobromodiphenyl ether	--	--	ND	100	--
Dibromodiphenyl ether	--	--	ND	100	--
Tribromodiphenyl ether	--	--	ND	100	--
Tetrabromodiphenyl ether	--	--	ND	100	--
Pentabromodiphenyl ether	--	--	ND	100	--
Hexabromodiphenyl ether	--	--	ND	100	--
Heptabromodiphenyl ether	--	--	ND	100	--
Octabromodiphenyl ether	--	--	ND	100	--
Nonabromodiphenyl ether	--	--	ND	100	--
Decabromodiphenyl ether	--	--	ND	100	--
Comment	PASS	PASS	PASS	--	--



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Test Report

No. T51910261505TC

Date: AUG 12, 2019

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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	75	76	80		
Lead (Pb)	--	--	--	10	1000
Cadmium(Cd)	--	--	--	10	100
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	--	See Note	#
Sum of PBBs	ND	ND	ND	--	1000
Monobromobiphenyl	ND	ND	ND	100	--
Dibromobiphenyl	ND	ND	ND	100	--
Tribromobiphenyl	ND	ND	ND	100	--
Tetrabromobiphenyl	ND	ND	ND	100	--
Pentabromobiphenyl	ND	ND	ND	100	--
Hexabromobiphenyl	ND	ND	ND	100	--
Heptabromobiphenyl	ND	ND	ND	100	--
Octabromobiphenyl	ND	ND	ND	100	--
Nonabromobiphenyl	ND	ND	ND	100	--
Decabromobiphenyl	ND	ND	ND	100	--
Sum of PBDEs	ND	ND	ND	--	1000
Monobromodiphenyl ether	ND	ND	ND	100	--
Dibromodiphenyl ether	ND	ND	ND	100	--
Tribromodiphenyl ether	ND	ND	ND	100	--
Tetrabromodiphenyl ether	ND	ND	ND	100	--
Pentabromodiphenyl ether	ND	ND	ND	100	--
Hexabromodiphenyl ether	ND	ND	ND	100	--
Heptabromodiphenyl ether	ND	ND	ND	100	--
Octabromodiphenyl ether	ND	ND	ND	100	--
Nonabromodiphenyl ether	ND	ND	ND	100	--
Decabromodiphenyl ether	ND	ND	ND	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	91	92	97		
Lead (Pb)	--	--	--	10	1000
Cadmium(Cd)	--	--	--	10	100
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	Negative	Negative	See Note	#
Sum of PBBs	--	--	--	--	1000
Monobromobiphenyl	--	--	--	100	--
Dibromobiphenyl	--	--	--	100	--
Tribromobiphenyl	--	--	--	100	--
Tetrabromobiphenyl	--	--	--	100	--
Pentabromobiphenyl	--	--	--	100	--
Hexabromobiphenyl	--	--	--	100	--
Heptabromobiphenyl	--	--	--	100	--
Octabromobiphenyl	--	--	--	100	--
Nonabromobiphenyl	--	--	--	100	--
Decabromobiphenyl	--	--	--	100	--
Sum of PBDEs	--	--	--	--	1000
Monobromodiphenyl ether	--	--	--	100	--
Dibromodiphenyl ether	--	--	--	100	--
Tribromodiphenyl ether	--	--	--	100	--
Tetrabromodiphenyl ether	--	--	--	100	--
Pentabromodiphenyl ether	--	--	--	100	--
Hexabromodiphenyl ether	--	--	--	100	--
Heptabromodiphenyl ether	--	--	--	100	--
Octabromodiphenyl ether	--	--	--	100	--
Nonabromodiphenyl ether	--	--	--	100	--
Decabromodiphenyl ether	--	--	--	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
	98	99		
Lead (Pb)	--	--	10	1000
Cadmium(Cd)	--	--	10	100
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	Negative	See Note	#
Sum of PBBs	--	--	--	1000
Monobromobiphenyl	--	--	100	--
Dibromobiphenyl	--	--	100	--
Tribromobiphenyl	--	--	100	--
Tetrabromobiphenyl	--	--	100	--
Pentabromobiphenyl	--	--	100	--
Hexabromobiphenyl	--	--	100	--
Heptabromobiphenyl	--	--	100	--
Octabromobiphenyl	--	--	100	--
Nonabromobiphenyl	--	--	100	--
Decabromobiphenyl	--	--	100	--
Sum of PBDEs	--	--	--	1000
Monobromodiphenyl ether	--	--	100	--
Dibromodiphenyl ether	--	--	100	--
Tribromodiphenyl ether	--	--	100	--
Tetrabromodiphenyl ether	--	--	100	--
Pentabromodiphenyl ether	--	--	100	--
Hexabromodiphenyl ether	--	--	100	--
Heptabromodiphenyl ether	--	--	100	--
Octabromodiphenyl ether	--	--	100	--
Nonabromodiphenyl ether	--	--	100	--
Decabromodiphenyl ether	--	--	100	--
Comment	PASS	PASS	--	--



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- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - -- = Not Conducted
 - Negative = The Cr(VI) concentration is below 0.10ug/cm². The coating is considered a non- Cr(VI) based coating.
 - Positive = The Cr(VI) concentration is above 0.13ug/cm² and the statistical margin of error. The coating is considered to contain Cr(VI).
 - Inconclusive = The Cr(VI) concentration is between the value of 0.10ug/cm² to 0.13ug/cm². Unavoidable coating variations may influence the determination. Additional 3 trials should be tested, use the averaged result of the 3 trials for the final determination.
 - Storage conditions and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing
 - # Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement. Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.
 - The maximum permissible limit is quoted from the EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU.
 - ###2 According to the product specification provided from client, specimen No.25, No.30, No.73 of the submitted sample is copper alloy containing up to 40000 mg/kg Lead by weight which is exempted by RoHS regulatory (Directive 2015/863/EU amending Annex II to Directive 2011/65/EU of The European Parliament and of The Council of 31 March 2015).



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1.2 EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Phthalates Content

Method: With reference to IEC 62321-8:2017

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	1	2	3		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	223	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	547	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	529	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	4	5	6		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	189	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	7	8	9		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	10	11	12		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	514	624	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000



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Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	13	14	15		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	125	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	16	17	18		
Dibutyl Phthalate (DBP)	84-74-2	ND	731	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	19	20	21		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	22	23	24		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000



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Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	25	26	27		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	28	29	30		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	31	32	33		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	34	35	36		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000



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Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	37	38	39		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	40	41	42		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	43	44		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	100	1000



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Specimen Description:

1. Silvery label paper w/ black printing
2. Black rubber inner bile
3. Black rubber ring
4. Black powder(Pressure gauge)
5. Black rubber ring(Pressure gauge)
6. White powder(Pressure gauge)
7. Blue plastic thread(Pressure gauge)
8. Red plastic thread(Pressure gauge)
9. Black rubber washer (Big) (Motor)
10. Green coating (Motor)
11. Black rubber washer (Small) (Motor)
12. Black rubber fixed part (Motor)
13. White woven tube (Motor)
14. Black rubber (Bearing)
15. Transparent plastic sheet (Electrolytic capacitor)
16. Silvery material (Electrolytic capacitor)
17. Red plastic (Wire jacket)
18. Black plastic (Wire jacket)
19. Black plastic (Outside) (Wire jacket)
20. Blue plastic (Inside) (Wire jacket)
21. Yellow plastic (Inside) (Wire jacket)
22. Yellow w/ blue plastic (Inside) (Wire jacket)
23. Red coating
24. Blue coating
25. Black coating
26. Beige plastic part
27. Black plastic nut
28. Cream plastic part
29. Black plastic shell
30. Transparent plastic round platform(Pressure gauge)



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Specimen Description:

31. Apricot plastic cover (Motor)
32. Black plastic fan (Motor)
33. Black material
34. Cream woven rope (Motor)
35. Cream plastic sheet (Motor)
36. Coppery enameled wire (Motor)
37. Transparent plastic tube (Motor)
38. Black soft plastic (Plug)
39. Black plastic (Plug)
40. Gray plastic shell (Electrolytic capacitor)
41. Black plastic shell (Electrolytic capacitor)
42. Silvery foil paper (Electrolytic capacitor)
43. Yellow plastic tube (Electrolytic capacitor)
44. Transparent plastic cover

- Note:
- mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm



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Sample Picture (As received)

Pic.1



Pic.2



Pic.3



Pic.4



Sample Picture (As received)

Pic.5



Pic.6



Pic.7



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*** End of Report ***