



中国认可
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检测
TESTING
CNAS L2929

Test Report

No.T51810232610TC

Date: SEP 19, 2019

Page 1 of 19

DONGHUANG TOYS FACTORY
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

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

REMOTE-CONTROL PLANES, RC DRONE

Item No. : DH8001D, DH8001D-1, DH8002D, DH8003D, DH881, DH8001A, DH866D, DH859D, DH808, DH815, DH831, DH832, DH833, DH835, DH836, DH837, DH838, DH855, DH856, DH857, DH858, DH859, DH860, DH861, DH862, DH863, DH865, DH866, DH867, DH868, DH869, DH870, DH871, DH872, DH873, DH880, DH888, DH999, DH777, DH666, DH8009, DH8008, DH8007, DH8006, DH8005, DH8010, DH8011, DH8012, DH8013, DH8015, DH8016, DH8017, DH8018, DH8019, DH886, DH816, DH866-3, DH830A, DH808-1, DH829, DH888-A1, DH888-B1, DH888-C1, DH888-D1

Requested Age Grading : 6+
Sample Receiving Date : AUG 22, 2019
Last Submission Sample Date : SEP 11, 2019
Testing Period : AUG 22, 2019 TO SEP 16, 2019

Test Requested		Conclusion
1.	European RoHS Directive 2015/863/EU Annex II; recasting 2002/95/EC – Certain hazardous substances	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

Feng Shaohong, Jessica
Lab Manager
CNAS Approved Signatory



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Results:
1.1 EU Directive 2015/863/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	Red coating	BL	BL	BL	BL	BL	PASS
2	Black coating	BL	BL	BL	BL	BL	PASS
3	Silvery coating	BL	BL	BL	BL	BL	PASS
4	Blue coating	BL	BL	BL	BL	BL	PASS
5	White coating	BL	BL	BL	BL	BL	PASS
6	White paper sheet w/ multi-color printing	BL	BL	BL	BL	BL	PASS
7	White plastic shell	BL	BL	BL	BL	BL	PASS
8	Black plastic (Propeller)	BL	BL	BL	BL	BL	PASS
9	Black plastic (Balance beam)	BL	BL	BL	BL	BL	PASS
10	Silvery metal fixed part (Balance beam)	BL	BL	BL	NA	X	Refer to chemical method
11	Black plastic fixed part	BL	BL	BL	BL	BL	PASS
12	Black plastic body	BL	BL	BL	BL	BL	PASS
13	Silvery blue metal plate	BL	BL	BL	NA	X	Refer to chemical method
14	Silvery blue metal tube	BL	BL	BL	NA	BL	PASS
15	Silvery metal shaft	BL	BL	BL	NA	BL	PASS
16	Dull golden metal washer	BL	BL	BL	NA	BL	PASS
17	Golden metal gear	BL	OL###1	BL	NA	BL	Refer to chemical method


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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
18	White plastic gear	BL	BL	BL	BL	BL	PASS
19	Cream plastic gear	BL	BL	BL	BL	BL	PASS
20	Yellow dry glue	BL	BL	BL	BL	BL	PASS
21	Transparent yellow plastic tape (Battery)	BL	BL	BL	BL	BL	PASS
22	Silvery metal electrode plate (Battery)	BL	BL	BL	NA	BL	PASS
23	Silvery metal solder (Battery)	BL	BL	BL	NA	BL	PASS
24	Transparent LED body	BL	BL	BL	X	BL	Refer to chemical method
25	Silvery metal pin (Transparent LED)	BL	BL	BL	NA	BL	PASS
26	Atrovirens receiver	BL	BL	BL	X	BL	Refer to chemical method
27	Silvery metal pin (receiver)	BL	BL	BL	NA	BL	PASS
28	Black heat shrinkable tube (receiver)	BL	BL	BL	BL	BL	PASS
29	Black plastic tube (Plug)	BL	BL	BL	BL	BL	PASS
30	Silvery metal plate (Plug)	BL	BL	BL	NA	BL	PASS
31	Golden metal pin (Plug)	BL	BL	BL	NA	BL	PASS
32	Brown plastic terminal (Chip switch)	BL	BL	BL	BL	BL	PASS
33	Silvery metal frame (Chip switch)	BL	BL	BL	NA	BL	PASS
34	Silvery "+" shaped metal part (Chip switch)	BL	BL	BL	NA	BL	PASS
35	Silvery "-" shaped metal part (Chip switch) (Submitted on Jun 11, 2018)	BL	BL	BL	NA	X	Refer to chemical method
36	Black plastic frame (Chip switch)	BL	BL	BL	BL	BL	PASS



No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
37	Silvery metal pin (Chip switch)	BL	BL	BL	NA	BL	PASS
38	Cream plastic cover (Little motor)	BL	BL	BL	BL	BL	PASS
39	Silvery metal shell (Little motor)	BL	BL	BL	NA	BL	PASS
40	Silvery metal electrode plate (Little motor)	BL	BL	BL	NA	BL	PASS
41	Silvery metal brush (Little motor)	BL	BL	BL	NA	BL	PASS
42	Black plastic bushing (Little motor)	BL	BL	BL	BL	BL	PASS
43	Silvery & coppery metal tube plate (Little motor)	BL	BL	BL	NA	BL	PASS
44	Coppery metal washer (Little motor)	BL	BL	BL	NA	BL	PASS
45	Yellow plastic washer (Little motor)	BL	BL	BL	BL	BL	PASS
46	Silvery metal shaft (Little motor) (Submitted on Jun 11, 2018)	BL	BL	BL	NA	X	Refer to chemical method
47	Silvery metal tube (Inside) (Little motor)	BL	BL	BL	NA	BL	PASS
48	Coppery metal coil (Little motor)	BL	BL	BL	NA	BL	PASS
49	Silvery magnet (Little motor)	BL	BL	BL	NA	BL	PASS
50	Black plastic cover (Motor)	BL	BL	BL	BL	BL	PASS
51	Silvery metal shell (Motor)	BL	BL	BL	NA	BL	PASS
52	Silvery metal electrode plate(Motor)	BL	BL	BL	NA	BL	PASS
53	Silvery metal brush (Motor)	BL	BL	BL	NA	BL	PASS
54	Coppery "凸"shape part (Motor)	BL	BL	BL	BL	BL	PASS
55	Cream plastic bushing (Motor)	BL	BL	BL	BL	BL	PASS
56	Silvery metal tube plate (Motor)	BL	BL	BL	NA	BL	PASS



No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
57	Black plastic tube (Motor)	BL	BL	BL	BL	BL	PASS
58	Dull golden metal washer (Motor)	BL	BL	BL	NA	BL	PASS
59	Silvery metal round plate (Motor) (Submitted on Jun 11, 2018)	BL	BL	BL	NA	X	Refer to chemical method
60	Grey plastic washer (Motor)	BL	BL	BL	BL	BL	PASS
61	White plastic washer (Motor)	BL	BL	BL	BL	BL	PASS
62	Silvery metal shaft (Motor) (Submitted on Jun 11, 2018)	BL	BL	BL	NA	X	Refer to chemical method
63	Silvery metal rotor (Motor)	BL	BL	BL	NA	X	Refer to chemical method
64	Green material (Motor)	BL	BL	BL	BL	BL	PASS
65	Coppery metal coil (Motor)	BL	BL	BL	NA	BL	PASS
66	White coating (Motor)	BL	BL	BL	BL	BL	PASS
67	Black magnet (Motor)	BL	BL	BL	NA	BL	PASS
68	Brown PCB w/ green printing (Motor)	BL	BL	BL	X	BL	Refer to chemical method
69	Silvery metal solder (Motor)	BL	X	BL	NA	BL	Refer to chemical method
70	Black plastic shell (Remote control)	BL	BL	BL	BL	BL	PASS
71	Red plastic key (Remote control)	BL	BL	BL	BL	BL	PASS
72	Transparent blue plastic part (Remote control)	BL	BL	BL	BL	BL	PASS
73	Silvery metal electrode plate (Battery compartment)	BL	BL	BL	NA	BL	PASS
74	Silvery metal spring (Battery compartment)	BL	BL	BL	NA	BL	PASS



No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
75	Silvery metal solder (Battery compartment)	BL	BL	BL	NA	BL	PASS
76	Translucent red LED body (Submitted on Jun 11, 2018)	BL	BL	BL	NA	BL	PASS
77	Translucent green LED body (Submitted on Jun 11, 2018)	BL	BL	BL	NA	BL	PASS
78	Silvery metal pin (LED)	BL	BL	BL	NA	BL	PASS
79	Transparent plastic fixed part (LED)	BL	BL	BL	BL	BL	PASS
80	Black plastic terminal (Switch)	BL	BL	BL	BL	BL	PASS
81	Silvery metal shell (Switch)	BL	BL	BL	NA	BL	PASS
82	Silvery metal bead (Switch)	BL	BL	BL	NA	BL	PASS
83	Silvery metal spring (Switch) (Submitted on Jun 11, 2018)	BL	BL	BL	NA	BL	PASS
84	Silvery metal "U" shape part (Switch)	BL	BL	BL	NA	BL	PASS
85	Brown hard board (Switch)	BL	BL	BL	BL	BL	PASS
86	Silvery metal pin (Switch)	BL	BL	BL	NA	BL	PASS
87	Black plastic terminal (Push switch)	BL	BL	BL	BL	BL	PASS
88	Silvery metal quadrate plate (Push switch)	BL	BL	BL	NA	BL	PASS
89	Coppery & silvery metal round plate (Push switch)	BL	BL	BL	NA	BL	PASS
90	Black plastic frame (Push switch)	BL	BL	BL	X	BL	Refer to chemical method
91	Silvery metal pin (Push switch)	BL	BL	BL	NA	BL	PASS
92	Black plastic terminal (Rotary switch)	BL	BL	BL	X	BL	Refer to chemical method
93	Silvery metal frame (Rotary switch)	BL	BL	BL	NA	BL	PASS



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 Shenzhen Branch

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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
94	Silvery metal brush (Rotary switch)	BL	BL	BL	NA	BL	PASS
95	Black plastic frame (Rotary switch)	BL	BL	BL	X	BL	Refer to chemical method
96	Brown hard board w/ black and white printing (Rotary switch)	BL	BL	BL	BL	BL	PASS
97	Silvery metal pin (Rotary switch)	BL	BL	BL	NA	BL	PASS
98	Black plastic frame (Electronic unit) (Rocket)	BL	BL	BL	BL	BL	PASS
99	Silvery metal brush (Electronic unit) (Rocket)	BL	BL	BL	NA	BL	PASS
100	Black plastic frame (Electronic unit) (Rocket)	BL	BL	BL	BL	BL	PASS
101	Dk. Brown hard board w/ white printing (Electronic unit) (Rocket)	BL	BL	BL	BL	BL	PASS
102	Silvery metal pin (Electronic unit) (Rocket)	BL	BL	BL	NA	BL	PASS
103	Silvery metal terminal (Rocker)	BL	BL	BL	NA	BL	PASS
104	Silvery metal frame (Rocker)	BL	BL	BL	NA	BL	PASS
105	Golden metal plate (Rocker)	BL	BL	BL	NA	BL	PASS
106	Silvery metal part (Rocker)	BL	BL	BL	NA	BL	PASS
107	Silvery metal rivet shaft (Rocker)	BL	BL	BL	NA	BL	PASS
108	Dull silvery metal spring (Rocker)	BL	BL	BL	NA	BL	PASS
109	Black plastic frame (Inside) (Rocker)	BL	BL	BL	BL	BL	PASS
110	Blue plastic cover (Rocker)	BL	BL	BL	BL	BL	PASS
111	Transparent black plastic (USB)	BL	BL	BL	BL	BL	PASS
112	Silvery metal shell (USB)	BL	BL	BL	NA	BL	PASS



No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
113	White plastic part (USB)	BL	BL	BL	X	BL	Refer to chemical method
114	Silvery metal pin (USB)	BL	BL	BL	NA	BL	PASS
115	Black plastic terminal (Plug)	BL	BL	BL	BL	BL	PASS
116	Silvery metal tube (Plug)	BL	OL###2	BL	NA	BL	Refer to chemical method
117	Yellow plastic tube (Plug)	BL	BL	BL	BL	BL	PASS
118	Silvery metal pin (Plug)	BL	BL	BL	NA	BL	PASS
119	Silvery metal solder (Plug) (Submitted on Jun 11, 2018)	BL	X	BL	NA	BL	Refer to chemical method
120	Black chip IC	BL	BL	BL	BL	BL	PASS
121	Black chip IC (14 pins)	BL	BL	BL	BL	BL	PASS
122	Black chip IC (8 pins)	BL	BL	BL	BL	BL	PASS
123	Black chip IC (6 pins)	BL	BL	BL	BL	BL	PASS
124	Black chip IC (3+2 pins) (Submitted on Jun 11, 2018)	BL	BL	BL	BL	BL	PASS
125	Black chip audion (Submitted on Jun 11, 2018)	BL	BL	BL	BL	BL	PASS
126	Black chip resistor (Submitted on Jun 11, 2018)	BL	X###3	BL	BL	BL	PASS
127	Brown chip capacitor	BL	BL	BL	BL	BL	PASS
128	Chip glass diode	BL	OL###4	BL	BL	BL	PASS
129	Chip LED	BL	BL	BL	BL	BL	PASS
130	Cream PCB w/ green & white printing	BL	BL	BL	X	BL	Refer to chemical method
131	Silvery metal solder (Cream PCB)	BL	BL	BL	NA	BL	PASS



No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
132	Brown PCB w/ green & white printing	BL	BL	BL	BL	BL	PASS
133	Silvery metal solder (Brown PCB)	BL	BL	BL	NA	BL	PASS
134	Yellow PCB w/ green & white printing	BL	BL	BL	X	BL	Refer to chemical method
135	Silvery metal solder (Yellow PCB) (Submitted on Jun 11, 2018)	BL	X	BL	NA	BL	Refer to chemical method
136	Black plastic (Wire jacket) (Outside)	BL	BL	BL	BL	BL	PASS
137	White plastic (Wire jacket) (Inside)	BL	BL	BL	BL	BL	PASS
138	Green plastic (Wire jacket) (Inside)	BL	BL	BL	BL	BL	PASS
139	Red soft plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
140	Black soft plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
141	Red plastic (Wire jacket) (Thick)	BL	BL	BL	BL	BL	PASS
142	Red plastic (Wire jacket) (Middle)	BL	BL	BL	BL	BL	PASS
143	Red plastic (Wire jacket) (Thin)	BL	BL	BL	BL	BL	PASS
144	White plastic (Wire jacket) (Thick)	BL	BL	BL	BL	BL	PASS
145	White plastic (Wire jacket) (Thin)	BL	BL	BL	BL	BL	PASS
146	Black plastic (Wire jacket) (Thick)	BL	BL	BL	BL	BL	PASS
147	Yellow plastic (Wire jacket) (Thick)	BL	BL	BL	BL	BL	PASS
148	Blue plastic (Wire jacket) (Thick)	BL	BL	BL	BL	BL	PASS
149	Dull blue plastic (Wire jacket) (Thick)	BL	BL	BL	BL	BL	PASS
150	Silvery metal core wire	BL	BL	BL	NA	BL	PASS
151	Coppery metal core wire	BL	BL	BL	NA	BL	PASS
152	Silvery metal screw	BL	BL	BL	NA	BL	PASS
153	Silvery blue metal cap screw	BL	BL	BL	NA	BL	PASS



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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	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

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 Annex II



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Note: - ###3. ####4 According to the product specification provided from client, it is possible the source of lead in specimen No.126, No.128 could be from the glass/ceramic material of that electronic component which is exempted by RoHS regulatory (Directive 2015/863/EU of The European Parliament and of The Council of 8 June 2011). However, the numerical result of detected restricted substances in specimen No.126, No.128 cannot be related back to the concentration of the substances in the original homogeneous material.

1.2 EU Directive 2015/863/EU (RoHS, Previously 2002/95/EC) - Wet Chemical for Lead, Hexavalent Chromium, PBBs & PBDEs content

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

For Lead, 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)
	10	13	17		
Lead (Pb)	--	--	28939 ^{###1}	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	Negative	--	See Note	#
Sum of PBBs	--	--	--	--	1000
Monobromobiphenyl	--	--	--	5	--
Dibromobiphenyl	--	--	--	5	--
Tribromobiphenyl	--	--	--	5	--
Tetrabromobiphenyl	--	--	--	5	--
Pentabromobiphenyl	--	--	--	5	--
Hexabromobiphenyl	--	--	--	5	--
Heptabromobiphenyl	--	--	--	5	--
Octabromobiphenyl	--	--	--	5	--
Nonabromobiphenyl	--	--	--	5	--
Decabromobiphenyl	--	--	--	5	--
Sum of PBDEs	--	--	--	--	1000
Monobromodiphenyl ether	--	--	--	5	--
Dibromodiphenyl ether	--	--	--	5	--
Tribromodiphenyl ether	--	--	--	5	--
Tetrabromodiphenyl ether	--	--	--	5	--
Pentabromodiphenyl ether	--	--	--	5	--
Hexabromodiphenyl ether	--	--	--	5	--
Heptabromodiphenyl ether	--	--	--	5	--
Octabromodiphenyl ether	--	--	--	5	--
Nonabromodiphenyl ether	--	--	--	5	--
Decabromodiphenyl ether	--	--	--	5	--
Comment	PASS	PASS	PASS	--	--



Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	24	26	35		
Lead (Pb)	--	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	Negative	See Note	#
Sum of PBBs	ND	ND	--	--	1000
Monobromobiphenyl	ND	ND	--	5	--
Dibromobiphenyl	ND	ND	--	5	--
Tribromobiphenyl	ND	ND	--	5	--
Tetrabromobiphenyl	ND	ND	--	5	--
Pentabromobiphenyl	ND	ND	--	5	--
Hexabromobiphenyl	ND	ND	--	5	--
Heptabromobiphenyl	ND	ND	--	5	--
Octabromobiphenyl	ND	ND	--	5	--
Nonabromobiphenyl	ND	ND	--	5	--
Decabromobiphenyl	ND	ND	--	5	--
Sum of PBDEs	ND	ND	--	--	1000
Monobromodiphenyl ether	ND	ND	--	5	--
Dibromodiphenyl ether	ND	ND	--	5	--
Tribromodiphenyl ether	ND	ND	--	5	--
Tetrabromodiphenyl ether	ND	ND	--	5	--
Pentabromodiphenyl ether	ND	ND	--	5	--
Hexabromodiphenyl ether	ND	ND	--	5	--
Heptabromodiphenyl ether	ND	ND	--	5	--
Octabromodiphenyl ether	ND	ND	--	5	--
Nonabromodiphenyl ether	ND	ND	--	5	--
Decabromodiphenyl ether	ND	ND	--	5	--
Comment	PASS	PASS	PASS	--	--



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Test Report

No. T51810232610TC

Date: SEP 19, 2018

Page 13 of 19

Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	46	59	62		
Lead (Pb)	--	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	Negative	Negative	See Note	#
Sum of PBBs	--	--	--	--	1000
Monobromobiphenyl	--	--	--	5	--
Dibromobiphenyl	--	--	--	5	--
Tribromobiphenyl	--	--	--	5	--
Tetrabromobiphenyl	--	--	--	5	--
Pentabromobiphenyl	--	--	--	5	--
Hexabromobiphenyl	--	--	--	5	--
Heptabromobiphenyl	--	--	--	5	--
Octabromobiphenyl	--	--	--	5	--
Nonabromobiphenyl	--	--	--	5	--
Decabromobiphenyl	--	--	--	5	--
Sum of PBDEs	--	--	--	--	1000
Monobromodiphenyl ether	--	--	--	5	--
Dibromodiphenyl ether	--	--	--	5	--
Tribromodiphenyl ether	--	--	--	5	--
Tetrabromodiphenyl ether	--	--	--	5	--
Pentabromodiphenyl ether	--	--	--	5	--
Hexabromodiphenyl ether	--	--	--	5	--
Heptabromodiphenyl ether	--	--	--	5	--
Octabromodiphenyl ether	--	--	--	5	--
Nonabromodiphenyl ether	--	--	--	5	--
Decabromodiphenyl ether	--	--	--	5	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	63	68	69		
Lead (Pb)	--	--	66	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	--	--	See Note	#
Sum of PBBs	--	ND	--	--	1000
Monobromobiphenyl	--	ND	--	5	--
Dibromobiphenyl	--	ND	--	5	--
Tribromobiphenyl	--	ND	--	5	--
Tetrabromobiphenyl	--	ND	--	5	--
Pentabromobiphenyl	--	ND	--	5	--
Hexabromobiphenyl	--	ND	--	5	--
Heptabromobiphenyl	--	ND	--	5	--
Octabromobiphenyl	--	ND	--	5	--
Nonabromobiphenyl	--	ND	--	5	--
Decabromobiphenyl	--	ND	--	5	--
Sum of PBDEs	--	ND	--	--	1000
Monobromodiphenyl ether	--	ND	--	5	--
Dibromodiphenyl ether	--	ND	--	5	--
Tribromodiphenyl ether	--	ND	--	5	--
Tetrabromodiphenyl ether	--	ND	--	5	--
Pentabromodiphenyl ether	--	ND	--	5	--
Hexabromodiphenyl ether	--	ND	--	5	--
Heptabromodiphenyl ether	--	ND	--	5	--
Octabromodiphenyl ether	--	ND	--	5	--
Nonabromodiphenyl ether	--	ND	--	5	--
Decabromodiphenyl ether	--	ND	--	5	--
Comment	PASS	PASS	PASS	--	--



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Test Report

No. T51810232610TC

Date: SEP 19, 2018

Page 15 of 19

Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	90	92	95		
Lead (Pb)	--	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	--	See Note	#
Sum of PBBs	ND	ND	ND	--	1000
Monobromobiphenyl	ND	ND	ND	5	--
Dibromobiphenyl	ND	ND	ND	5	--
Tribromobiphenyl	ND	ND	ND	5	--
Tetrabromobiphenyl	ND	ND	ND	5	--
Pentabromobiphenyl	ND	ND	ND	5	--
Hexabromobiphenyl	ND	ND	ND	5	--
Heptabromobiphenyl	ND	ND	ND	5	--
Octabromobiphenyl	ND	ND	ND	5	--
Nonabromobiphenyl	ND	ND	ND	5	--
Decabromobiphenyl	ND	ND	ND	5	--
Sum of PBDEs	ND	18	ND	--	1000
Monobromodiphenyl ether	ND	ND	ND	5	--
Dibromodiphenyl ether	ND	ND	ND	5	--
Tribromodiphenyl ether	ND	ND	ND	5	--
Tetrabromodiphenyl ether	ND	ND	ND	5	--
Pentabromodiphenyl ether	ND	ND	ND	5	--
Hexabromodiphenyl ether	ND	ND	ND	5	--
Heptabromodiphenyl ether	ND	ND	ND	5	--
Octabromodiphenyl ether	ND	ND	ND	5	--
Nonabromodiphenyl ether	ND	ND	ND	5	--
Decabromodiphenyl ether	ND	18	ND	5	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	113	116	119		
Lead (Pb)	--	8741 ^{###2}	284	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	--	See Note	#
Sum of PBBs	ND	--	--	--	1000
Monobromobiphenyl	ND	--	--	5	--
Dibromobiphenyl	ND	--	--	5	--
Tribromobiphenyl	ND	--	--	5	--
Tetrabromobiphenyl	ND	--	--	5	--
Pentabromobiphenyl	ND	--	--	5	--
Hexabromobiphenyl	ND	--	--	5	--
Heptabromobiphenyl	ND	--	--	5	--
Octabromobiphenyl	ND	--	--	5	--
Nonabromobiphenyl	ND	--	--	5	--
Decabromobiphenyl	ND	--	--	5	--
Sum of PBDEs	ND	--	--	--	1000
Monobromodiphenyl ether	ND	--	--	5	--
Dibromodiphenyl ether	ND	--	--	5	--
Tribromodiphenyl ether	ND	--	--	5	--
Tetrabromodiphenyl ether	ND	--	--	5	--
Pentabromodiphenyl ether	ND	--	--	5	--
Hexabromodiphenyl ether	ND	--	--	5	--
Heptabromodiphenyl ether	ND	--	--	5	--
Octabromodiphenyl ether	ND	--	--	5	--
Nonabromodiphenyl ether	ND	--	--	5	--
Decabromodiphenyl ether	ND	--	--	5	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	130	134	135		
Lead (Pb)	--	--	288	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	--	See Note	#
Sum of PBBs	ND	ND	--	--	1000
Monobromobiphenyl	ND	ND	--	5	--
Dibromobiphenyl	ND	ND	--	5	--
Tribromobiphenyl	ND	ND	--	5	--
Tetrabromobiphenyl	ND	ND	--	5	--
Pentabromobiphenyl	ND	ND	--	5	--
Hexabromobiphenyl	ND	ND	--	5	--
Heptabromobiphenyl	ND	ND	--	5	--
Octabromobiphenyl	ND	ND	--	5	--
Nonabromobiphenyl	ND	ND	--	5	--
Decabromobiphenyl	ND	ND	--	5	--
Sum of PBDEs	ND	ND	--	--	1000
Monobromodiphenyl ether	ND	ND	--	5	--
Dibromodiphenyl ether	ND	ND	--	5	--
Tribromodiphenyl ether	ND	ND	--	5	--
Tetrabromodiphenyl ether	ND	ND	--	5	--
Pentabromodiphenyl ether	ND	ND	--	5	--
Hexabromodiphenyl ether	ND	ND	--	5	--
Heptabromodiphenyl ether	ND	ND	--	5	--
Octabromodiphenyl ether	ND	ND	--	5	--
Nonabromodiphenyl ether	ND	ND	--	5	--
Decabromodiphenyl ether	ND	ND	--	5	--
Comment	PASS	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 Annex II
 - ###1, ###2 According to the product specification provided from client, specimen No.17, No.116 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 of The European Parliament and of The Council of 8 June 2011).



Sample Photo:



SGS authenticate the photo on original report only

*** End of Report ***



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