Test Report

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ZHANG BO TOYS FACTORY
XIACUN INDUSTRIAL ZONE,LIANXIA TOWN,CHENGHAI DISTRICT,
SHANTOU CITY,GUANGDONG,CHINA

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

REMOTE CONTROL AIRCRAFT SERIES

Item No.	:	XS803C,DCH-260,XS801,XS801W,XS801VR,XS801GT,XS801C-1,XS801-1,XS801C,XS802,XS802C,XS802W,XS803,XS803W,XS803VR,XS803GT,XS804,XS804C,XS804W,XS805,XS805C,XS805W,XS806,XS806C,XS806W,XS806VR,XS806GT,XS807,XS807C,XS807W,XS808,XS808C,XS808W,XS808VR,XS808GT,XS809,XS809C,XS809W,XS810,XS810C,XS810W,XS811,D61,D62,D63,D51,D52,D53,D86,D85,D65
Requested Age Grading	:	14+
Sample Receiving Date	:	APR 01, 2017
Last Submission Sample Date	:	APR 21, 2017
Further Information Date	:	APR 28, 2017
Testing Period	:	APR 01, 2017 TO APR 28, 2017

Test Requested		Conclusion
1.	European RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC (Selected specimen(s) was/were tested as specified by the applicant, please refer to test result page(s) for details)	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 Hardlines

Feng Shaohong, Jessica
Lab Manager
CNAS Approved Signatory

Results:

1.1 EU 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	Multi-colored film paper label	BL	BL	BL	BL	BL	PASS
2	White soft plastic w/ red printing	BL	BL	BL	BL	BL	PASS
3	Brown coating	BL	BL	BL	BL	BL	PASS
4	Silvery coating	BL	BL	BL	BL	BL	PASS
5	Green coating	BL	BL	BL	BL	BL	PASS
6	Grey coating	BL	BL	BL	BL	BL	PASS
7	Black plastic (Wing)	BL	BL	BL	BL	BL	PASS
8	Black plastic (Shelter) (Stand bar)	BL	BL	BL	BL	BL	PASS
9	Black plastic (Body)	BL	BL	BL	BL	BL	PASS
10	Orange plastic (Wing)	BL	BL	BL	BL	BL	PASS
11	White plastic (Wing)	BL	BL	BL	BL	BL	PASS
12	Black coating (Wing)	BL	BL	BL	BL	BL	PASS
13	Off-white plastic (Shelter)	BL	BL	BL	BL	BL	PASS
14	White plastic (Stand bar)	BL	BL	BL	BL	BL	PASS
15	White plastic (Body)	BL	BL	BL	BL	BL	PASS
16	Transparent green plastic	BL	BL	BL	BL	BL	PASS
17	Transparent pink plastic	BL	BL	BL	BL	BL	PASS
18	White plastic gear	BL	BL	BL	BL	BL	PASS
19	Silvery metal shaft	BL	BL	BL	NA	BL	PASS

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
20	Transparent plastic (Accumulator)	BL	BL	BL	BL	BL	PASS
21	Transparent adhesive tape w/ black printing (Accumulator)	BL	BL	BL	BL	BL	PASS
22	Green plastic sheet (Accumulator)	BL	BL	BL	BL	BL	PASS
23	Transparent yellow adhesive tape (Accumulator)	BL	BL	BL	BL	BL	PASS
24	Beige sticker (Accumulator)	BL	BL	BL	BL	BL	PASS
25	Silver metal electrode plate (Accumulator)	BL	BL	BL	NA	BL	PASS
26	Black chip IC (6 feet)	BL	BL	BL	**X**	BL	Refer to chemical method
27	Black chip resistor	BL	**X**$^{\#\#\#1}$	BL	BL	**X**	Refer to chemical method
28	Brown chip capacitor	BL	BL	BL	BL	BL	PASS
29	Cream PCB w/ green printing (Accumulator)	BL	BL	BL	**X**	BL	Refer to chemical method
30	Silvery metal solder (Accumulator)	BL	BL	BL	NA	BL	PASS
31	Black hot melt tube (Submitted on Apr 21, 2016)	BL	BL	BL	BL	BL	PASS
32	White plastic frame (Plug) (Socket)	BL	BL	BL	BL	BL	PASS
33	Silvery metal pin (Plug) (Socket)	BL	BL	BL	NA	BL	PASS
34	Transparent LED body	BL	BL	BL	**X**	BL	Refer to chemical method
35	Silvery metal pin (LED)	BL	**OL**	BL	NA	BL	Refer to chemical method
36	Silvery metal solder (LED)	BL	BL	BL	NA	BL	PASS
37	Creamy white plastic (Socket) (Submitted on Apr 21, 2016)	BL	BL	BL	BL	BL	PASS

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
38	Silvery metal pin (Socket)	BL	BL	BL	NA	BL	PASS
39	Black plastic terminal (Switch)	BL	BL	BL	BL	BL	PASS
40	Silvery metal shell (Switch)	BL	BL	BL	NA	BL	PASS
41	Silvery-white "U" shaped metal part (Switch)	BL	BL	BL	NA	BL	PASS
42	Brown hard board w/ red printing (Switch)	BL	BL	BL	BL	BL	PASS
43	Silvery metal pin (Switch)	BL	BL	BL	NA	BL	PASS
44	Black plastic cover (Motor)	BL	BL	BL	BL	BL	PASS
45	Cream material (Motor)	BL	BL	BL	BL	BL	PASS
46	Silvery metal shell (Motor)	BL	BL	BL	NA	BL	PASS
47	Silvery metal brush (Motor)	BL	BL	BL	NA	BL	PASS
48	Silvery metal pin (Motor)	BL	BL	BL	NA	BL	PASS
49	Coppery metal washer (Motor)	BL	BL	BL	NA	BL	PASS
50	Silvery metal tube (Inside) (Motor)	BL	BL	BL	NA	BL	PASS
51	Silvery metal shaft (Motor)	BL	BL	BL	NA	**X**	Refer to chemical method
52	Cream plastic cover (Motor)	BL	BL	BL	BL	BL	PASS
53	Translucent plastic tube (Motor)	BL	BL	BL	BL	BL	PASS
54	Blue plastic washer (Motor)	BL	BL	BL	BL	BL	PASS
55	Coppery metal coil (Motor)	BL	BL	BL	NA	BL	PASS
56	Silvery magnet (Motor)	BL	BL	BL	NA	BL	PASS
57	Black plastic sheet w/ brown printing (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
58	Silvery metal shell (Electrolytic capacitor)	BL	BL	BL	NA	BL	PASS
59	Black rubber stopper (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS
60	Brown wet paper (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS
61	Silvery foil (Electrolytic capacitor)	BL	BL	BL	NA	BL	PASS
62	Silvery metal pin (Electrolytic capacitor)	BL	BL	BL	NA	BL	PASS
63	Transparent plastic tube (Crystal oscillator)	BL	BL	BL	BL	BL	PASS
64	Silvery color metal Body (Crystal oscillator)	BL	BL	BL	NA	BL	PASS
65	Silvery metal pin (Crystal oscillator)	BL	BL	BL	NA	BL	PASS
66	Black plastic (Remote control)	BL	BL	BL	**X**	BL	Refer to chemical method
67	White plastic (Remote control)	BL	BL	BL	BL	BL	PASS
68	Orange plastic (Remote control)	BL	BL	BL	BL	BL	PASS
69	Translucent yellow hot melt glue	BL	BL	BL	BL	BL	PASS
70	Silvery metal electrode plate (Battery compartment)	BL	BL	BL	NA	BL	PASS
71	Silvery metal spring (Battery compartment)	BL	BL	BL	NA	BL	PASS
72	Silvery metal solder (Battery compartment)	BL	**X**	BL	NA	BL	Refer to chemical method
73	Black plastic terminal (Switch) (Big)	BL	BL	BL	BL	BL	PASS
74	Silvery metal shell (Switch) (Big)	BL	BL	BL	NA	BL	PASS
75	Silvery-white "U" shaped metal part (Switch) (Big)	BL	BL	BL	NA	BL	PASS

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
76	Dull silvery metal spring (Switch) (Big)	BL	BL	BL	NA	BL	PASS
77	Brown hard board w/ red printing (Switch) (Big)	BL	BL	BL	BL	BL	PASS
78	Silvery metal pin (Switch) (Big)	BL	BL	BL	NA	BL	PASS
79	Black plastic terminal (Push switch) (Short) (Submitted on Apr 21, 2016)	BL	BL	BL	BL	BL	PASS
80	Silvery metal quadrate plate (Push switch) (Short)	BL	BL	BL	NA	BL	PASS
81	Coppery & silvery metal round plate (Push switch) (Short)	BL	BL	BL	NA	BL	PASS
82	(Short)Black plastic frame (Push switch) (Short) (Submitted on Apr 21, 2016)	BL	BL	BL	**X**	BL	Refer to chemical method
83	Silvery metal pin (Push switch) (Short)	BL	BL	BL	NA	BL	PASS
84	Black plastic terminal (Push switch) (Long)	BL	BL	BL	BL	BL	PASS
85	Silvery metal quadrate plate (Push switch)	BL	BL	BL	NA	BL	PASS
86	Silvery metal round plate (Push switch)	BL	BL	BL	NA	BL	PASS
87	Black plastic frame (Push switch)	BL	BL	BL	BL	BL	PASS
88	Silvery metal pin (Push switch)	BL	BL	BL	NA	BL	PASS
89	Transparent red LED body	BL	BL	BL	**X**	BL	Refer to chemical method
90	Silvery metal pin (LED)	BL	BL	BL	NA	BL	PASS
91	Black plastic frame (Microphone)	BL	BL	BL	**X**	BL	Refer to chemical method
92	Silvery metal round plate (Small) (Microphone)	BL	BL	BL	NA	BL	PASS

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
93	Silvery metal thin plate (Big) (Microphone)	BL	BL	BL	NA	**X**	Refer to chemical method
94	Silvery metal cylindrical (Microphone)	BL	BL	BL	NA	BL	PASS
95	Silvery metal plate (Microphone)	BL	BL	BL	NA	BL	PASS
96	Coppery metal coil (Microphone)	BL	BL	BL	NA	BL	PASS
97	Black magnet (Microphone)	BL	BL	BL	NA	BL	PASS
98	Beige PCB w/ green printing (Microphone)	BL	BL	BL	**X**	BL	Refer to chemical method
99	Silvery metal pin (Microphone)	BL	BL	BL	NA	BL	PASS
100	Black material (Microphone)	BL	BL	BL	**X**	BL	Refer to chemical method
101	Silvery metal solder (Microphone)	BL	BL	BL	NA	BL	PASS
102	Blue plastic frame (Electronic unit) (Rocket)	BL	BL	BL	BL	BL	PASS
103	Black plastic cover (Electronic unit) (Rocket) (Blue)	BL	BL	BL	BL	BL	PASS
104	Silvery metal brush (Electronic unit) (Rocket) (Blue)	BL	BL	BL	NA	BL	PASS
105	Dk. Brown hard board w/ white & black printing (Electronic unit) (Rocket)	BL	BL	BL	BL	BL	PASS
106	Silvery metal pin (Electronic unit) (Rocket) (Blue)	BL	BL	BL	NA	BL	PASS
107	Green plastic frame (Electronic unit) (Rocket)	BL	BL	BL	BL	BL	PASS
108	Black plastic cover (Electronic unit) (Rocket) (Green)	BL	BL	BL	BL	BL	PASS
109	Silvery metal brush (Electronic unit) (Rocket) (Green)	BL	BL	BL	NA	BL	PASS

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
110	Dk. Brown hard board w/ white & grey printing (Electronic unit) (Rocket)	BL	BL	BL	BL	BL	PASS
111	Silvery metal pin (Electronic unit) (Rocket) (Green)	BL	BL	BL	NA	BL	PASS
112	Lt.Green plastic frame (Electronic unit) (Rocket) (Lt.Green)	BL	BL	BL	BL	BL	PASS
113	Black plastic cover (Electronic unit) (Rocket) (Lt.Green)	BL	BL	BL	BL	BL	PASS
114	Silvery metal brush (Electronic unit) (Rocket) (Lt.Green)	BL	BL	BL	NA	BL	PASS
115	Dk. Brown hard board w/ white & black printing (Electronic unit) (Rocket) (Lt.Green)	BL	BL	BL	BL	BL	PASS
116	Silvery metal pin (Electronic unit) (Rocket) (Lt.Green)	BL	BL	BL	NA	BL	PASS
117	Silvery metal terminal (Rocker)	BL	BL	BL	NA	BL	PASS
118	Silvery metal frame (Rocker)	BL	BL	BL	NA	BL	PASS
119	Coppery metal plate (Rocker)	BL	BL	BL	NA	BL	PASS
120	Black plastic connect part (Rocker)	BL	BL	BL	BL	BL	PASS
121	Silvery metal part (Rocker)	BL	BL	BL	NA	BL	PASS
122	Silvery metal shaft (Rocker)	BL	BL	BL	NA	BL	PASS
123	White plastic frame (Inside) (Rocker)	BL	BL	BL	BL	BL	PASS
124	Blue plastic cover (Rocker)	BL	BL	BL	BL	BL	PASS
125	Dull silvery metal spring (Rocker)	BL	BL	BL	NA	BL	PASS
126	Tansparent black plastic shell (USB)	BL	BL	BL	BL	BL	PASS
127	Silvery metal shell (USB)	BL	BL	BL	NA	BL	PASS

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
128	Off white plastic part (USB)	BL	BL	BL	**X**	BL	Refer to chemical method
129	Silvery metal pin (USB)	BL	BL	BL	NA	BL	PASS
130	Black plastic non-slipping block (Charging interface)	BL	BL	BL	BL	BL	PASS
131	Tansparent black plastic shell (Charging interface)	BL	BL	BL	BL	BL	PASS
132	White plastic part (Charging interface)	BL	BL	BL	BL	BL	PASS
133	Silvery metal pin (Charging interface)	BL	BL	BL	NA	BL	PASS
134	Black chip resistor w/ white printing (Big)	BL	**X**$^{\#\#\#1}$	BL	**X**	BL	Refer to chemical method
135	Black chip resistor w/ white printing (Small)	BL	**OL**$^{\#\#\#1}$	BL	BL	BL	PASS
136	Black chip audion	BL	BL	BL	**X**	BL	Refer to chemical method
137	Chip LED	BL	BL	BL	**X**	BL	Refer to chemical method
138	Cream PCB w/ green & white printing (USB)	BL	BL	BL	**X**	BL	Refer to chemical method
139	Silvery metal solder (Cream PCB) (USB) (Submitted on Apr 21, 2016)	BL	BL	BL	NA	BL	PASS
140	Black plastic cover (Camera)	BL	BL	BL	BL	BL	PASS
141	Transparent dry glue (Camera)	BL	BL	BL	**X**	BL	Refer to chemical method
142	Black foam pad w/ adhesive glue (Camera)	BL	BL	BL	BL	BL	PASS
143	Silvery metal plate (Camera)	BL	BL	BL	NA	**X**	Refer to chemical method

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
144	Digital screen w/ PCB (Camera)	BL	BL	BL	BL	BL	PASS
145	Yellow FPC (Camera)	BL	BL	BL	BL	BL	PASS
146	Brown chip capacitor (FPC) (Camera)	BL	BL	BL	BL	BL	PASS
147	Black plastic frame (Camera)	BL	BL	BL	BL	BL	PASS
148	Silvery blue metal cap screw	BL	BL	BL	NA	BL	PASS
149	Transparent blue glass (Camera)	BL	BL	BL	NA	BL	PASS
150	Transparent plastic convex lens (Camera)	BL	BL	BL	BL	BL	PASS
151	Black plastic washer (Camera)	BL	BL	BL	BL	BL	PASS
152	Transparent plastic (Camera)	BL	BL	BL	BL	BL	PASS
153	SD card	BL	BL	BL	BL	BL	PASS
154	Silvery metal shell (SD card slot)	BL	BL	BL	NA	**X**	Refer to chemical method
155	Silvery metal spring (SD card slot)	BL	BL	BL	NA	BL	PASS
156	Silvery "—" shaped metal part (SD card slot)	BL	BL	BL	NA	**X**	Refer to chemical method
157	Black plastic part (SD card slot)	BL	BL	BL	BL	BL	PASS
158	Silvery metal pin (SD card slot)	BL	BL	BL	NA	BL	PASS
159	Silvery metal shell (Slot) (Camera)	BL	BL	BL	NA	BL	PASS
160	Grey plastic part (Slot) (Camera)	BL	BL	BL	BL	BL	PASS
161	Coppery metal pin (Slot) (Camera)	BL	BL	BL	NA	BL	PASS
162	Golden metal frame (Microphone)	BL	BL	BL	NA	BL	PASS
163	White plastic ring (Microphone)	BL	BL	BL	BL	BL	PASS
164	Red plastic washer(Microphone)	BL	BL	BL	BL	BL	PASS

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
165	Silvery metal cylindrical (Microphone)	BL	BL	BL	NA	BL	PASS
166	Silvery metal plate (Microphone)	BL	BL	BL	NA	BL	PASS
167	Silvery plastic film (Microphone)	BL	BL	BL	BL	BL	PASS
168	Silvery metal washer (Microphone)	BL	BL	BL	NA	BL	PASS
169	Black chip audion (Microphone)	BL	BL	BL	BL	BL	PASS
170	Grey chip capacitor (Microphone)	BL	BL	BL	BL	BL	PASS
171	Cream PCB w/ green printing (Microphone)	BL	BL	BL	**X**	BL	Refer to chemical method
172	Golden metal pin (Microphone)	BL	BL	BL	NA	BL	PASS
173	Black plastic shell (Card reader)	BL	BL	BL	BL	BL	PASS
174	Silvery metal frame (Card reader)	BL	BL	BL	NA	BL	PASS
175	Grey plastic part (Card reader)	BL	BL	BL	BL	BL	PASS
176	Silvery metal pin (Card reader)	BL	**OL**	BL	NA	BL	Refer to chemical method
177	Black material (Card reader)	BL	BL	BL	BL	BL	PASS
178	Brown PCB w/ Blue printing (Card reader)	BL	BL	BL	BL	BL	PASS
179	Transparent plastic terminal (Screwdriver)	BL	BL	BL	BL	BL	PASS
180	Silvery metal terminal (Screwdriver)	BL	BL	BL	NA	BL	PASS
181	Square chip IC (Big)	BL	BL	BL	BL	BL	PASS
182	Square chip IC (Medium)	BL	BL	BL	**X**	BL	Refer to chemical method
183	Square chip IC (Small)	BL	BL	BL	**X**	BL	Refer to chemical method
184	Black chip IC (16 feet) (Big)	BL	BL	BL	BL	BL	PASS

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
185	Black chip IC (16 feet) (Small)	BL	BL	BL	BL	BL	PASS
186	Black chip IC (8 feet)	BL	BL	BL	BL	BL	PASS
187	Black chip capacitor	BL	BL	BL	BL	BL	PASS
188	Brown chip capacitor (Big)	BL	BL	BL	BL	BL	PASS
189	Dk.Brown chip capacitor	BL	BL	BL	BL	BL	PASS
190	Black chip diode	BL	BL	BL	X	BL	Refer to chemical method
191	Grey chip capacitor	BL	BL	BL	BL	BL	PASS
192	Silvery chip crystal oscillator	BL	BL	BL	NA	BL	PASS
193	Yellow PCB w/ Blue printing	BL	BL	BL	X	BL	Refer to chemical method
194	Silvery metal solder (Yellow PCB)	BL	BL	BL	NA	BL	PASS
195	Cream PCB w/ Blue printing	BL	BL	BL	X	BL	Refer to chemical method
196	Silvery metal solder (Cream PCB w/ Blue printing)	BL	BL	BL	NA	BL	PASS
197	Cream PCB w/ green printing	BL	BL	BL	X	BL	Refer to chemical method
198	Silvery metal solder (Cream PCBw/ green printing)	BL	BL	BL	NA	BL	PASS
199	Brown PCB w/ Blue printing	BL	BL	BL	BL	BL	PASS
200	Silvery metal solder (Brown PCB)	BL	BL	BL	NA	BL	PASS
201	Red plastic (Flat cable)	BL	BL	BL	BL	BL	PASS
202	Black plastic (Flat cable)	BL	BL	BL	BL	BL	PASS
203	Yellow plastic (Flat cable)	BL	BL	BL	BL	BL	PASS

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
204	White plastic (Flat cable)	BL	BL	BL	BL	BL	PASS
205	Red soft plastic (Flat cable)	BL	BL	BL	BL	BL	PASS
206	Black soft plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
207	Transparent plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
208	Red plastic (Wire jacket) (Thick)	BL	BL	BL	BL	BL	PASS
209	Red plastic (Wire jacket) (Thin)	BL	BL	BL	BL	BL	PASS
210	Dk.Red plastic (Wire jacket) (Thick)	BL	BL	BL	BL	BL	PASS
211	Dk.Red plastic (Wire jacket) (Thin)	BL	BL	BL	BL	BL	PASS
212	Black plastic (Wire jacket) (Thick)	BL	BL	BL	BL	BL	PASS
213	Black plastic (Wire jacket) (Medium)	BL	BL	BL	BL	BL	PASS
214	Black plastic (Wire jacket) (Thin)	BL	BL	BL	BL	BL	PASS
215	White plastic (Wire jacket) (Thick)	BL	BL	BL	BL	BL	PASS
216	White plastic (Wire jacket) (Thin)	BL	BL	BL	BL	BL	PASS
217	Off-white plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
218	Yellow plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
219	Blue plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
220	Green plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
221	Black plastic (Wire jacket) (Outside)	BL	BL	BL	BL	BL	PASS
222	Silvery metal wire	BL	BL	BL	NA	BL	PASS
223	Coppery metal wire	BL	BL	BL	NA	BL	PASS
224	Silvery metal screw	BL	BL	BL	NA	BL	PASS
225	Silvery metal cap screw	BL	BL	BL	NA	BL	PASS

Note:
- BL = Below Limit by XRF analysis
- OL = Over Limit by XRF analysis
- X = Inconclusive (questionable, need further chemical analysis)
- NA = Not Applicable
- 1% = 10000 mg/kg = 10000 ppm
- ###1According to the product specification provided from client, it is possible the source of lead in specimen No.27, No.134 & No.135 could be from the glass/ceramic material of that electronic component which is exempted by RoHS regulatory (Directive 2011/65/EU of The European Parliament and of The Council of 8 June 2011). However, the numerical result of detected restricted substances in specimen No.27, No.134 & No.135 cannot be related back to the concentration of the substances in the original homogeneous material.

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 ≤ (70-3σ) < X < (130+3σ) ≤ OL	BL ≤ (70-3σ) < X < (130+3σ) ≤ OL	LOD < X < (150+3σ) ≤ OL
Pb	mg/kg	BL ≤ (700-3σ) < X < (1300+3σ) ≤ OL	BL ≤ (700-3σ) < X < (1300+3σ) ≤ OL	BL ≤ *(500-3σ) < X < (1500+3σ)* ≤ OL
Hg	mg/kg	BL ≤ (700-3σ) < X < (1300+3σ) ≤ OL	BL ≤ (700-3σ) < X < (1300+3σ) ≤ OL	BL ≤ *(500-3σ) < X < (1500+3σ)* ≤ OL
Br	mg/kg	BL ≤ (300-3σ) < X	--	BL ≤ *(250-3σ) < X*
Cr	mg/kg	BL ≤ (700-3σ) < X	BL ≤ (700-3σ) < X	BL ≤ (500-3σ) < X

BL = Below Limit by XRF analysis

OL = Over Limit by XRF analysis

X = Inconclusive

LOD = Limit of Detection

(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 2011/65/EU Annex II

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%

1.2 EU Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Wet Chemical

Method: With reference to IEC 62321: 2008, IEC62321-5:2013, 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)
	26	27	29		
Lead (Pb) (Pb)	--	--	--	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction (Cr(VI))	--	ND	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction (Cr(VI))	--	--	--	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	--	--

Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	34	35	51		
Lead (Pb) (Pb)	--	705	--	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction (Cr(VI))	--	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction (Cr(VI))	--	--	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	--	--

Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	66	72	82		
Lead (Pb) (Pb)	--	364	--	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction (Cr(VI))	--	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction (Cr(VI))	--	--	--	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	16	--	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	16	--	ND	5	--
Comment	PASS	PASS	PASS	--	--

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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	89	91	93		
Lead (Pb) (Pb)	--	--	--	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction (Cr(VI))	--	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction (Cr(VI))	--	--	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	59	--	--	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	8	--	5	--
Decabromodiphenyl ether	ND	51	--	5	--
Comment	PASS	PASS	PASS	--	--

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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	98	100	128		
Lead (Pb) (Pb)	--	--	--	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction (Cr(VI))	--	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction (Cr(VI))	--	--	--	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	ND	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	ND	ND	5	--
Comment	PASS	PASS	PASS	--	--

Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	134	136	137		
Lead (Pb) (Pb)	--	--	--	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction (Cr(VI))	--	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction (Cr(VI))	--	--	--	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	ND	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	ND	ND	5	--
Comment	PASS	PASS	PASS	--	--

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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	138	141	143		
Lead (Pb) (Pb)	--	--	--	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction (Cr(VI))	--	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction (Cr(VI))	--	--	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 Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	154	156	171		
Lead (Pb) (Pb)	--	--	--	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction (Cr(VI))	--	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction (Cr(VI))	Negative	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	--	--

Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	176	182	183		
Lead (Pb) (Pb)	10400###2	--	--	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction (Cr(VI))	--	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction (Cr(VI))	--	--	--	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 Item(s)	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
	190	193		
Lead (Pb) (Pb)	--	--	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction (Cr(VI))	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction (Cr(VI))	--	--	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	--	--

Test Item(s)	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
	195	197		
Lead (Pb) (Pb)	--	--	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction (Cr(VI))	--	--	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction (Cr(VI))	--	--	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	--	--

Note:
- mg/kg = milligram per kilogram
- MDL = Method Detection Limit
- ND = Not Detected (lower than MDL)
- -- = Not Conducted
- Negative = Absence of Cr(VI) coating,
- Positive = Presence of Cr(VI) coating.
  (The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm^2 specimen surface area.)
- 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 2011/65/EU Annex II
- ###2 According to the product specification provided from client, specimen No.176 of the submitted sample is copper alloy containing up to 40000 mg/kg Lead by weight which is exempted by RoHS regulatory (Directive 2011/65/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 ***