

Test Report

Number: GZHH00332883

Applicant: SHANTOU SIX SEVEN EIGHT TOYS INDUSTRIAL CO., LTD.
BUMEI INDUSTRIAL DISTRICT, CHENGHAI, SHANTOU, GUANGDONG PROVINCE, CHINA

Date: Sep 06, 2019

Sample Description:

Five (5) sets of submitted sample said to be :

Item Name : Construction Vehicle & Equipment Series
Reference No. : 8020E、8021E、8022E、8023E、8024E、8025E、8026E、8027E、8028E、8029E、8030E、8031E、8032E、8033E、8034E、8035E、8036E、8037E、8038E、8039E、8040E、8041E、8042E、8043E、8044E、8045E、8046E、8047E、8048E、8049E、8050E、8051E、8052E、8053E、8054E、8055E、8056E、8057E、8058E、8059E、8060E、8061E、8062E、8063E、8064E、8065E、8066E、8067E、8068E、8069E、8070E、8071E、8072E、8073E、8074E、8075E、8076E、8077E、8078E、8079E、8080E、8081E、8082E、8083E、8084E、8085E、8086E、8087E、8088E、8089E、8090E、8091E、8092E、8093E、8094E、8095E、8096E、8097E、8098E、8020RCE

Manufacturer : SHANTOU SIX SEVEN EIGHT TOYS INDUSTRIAL CO., LTD.
Country of Origin : China



To be continued



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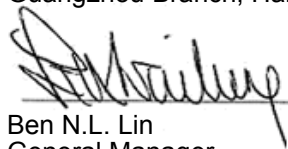
Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Tested component(s) of submitted sample sets	Screening by XRF spectroscopy and chemical test for RoHS Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863 with effective from 22 July 2019	Pass

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines



Ben N.L. Lin
General Manager



Tests Conducted

1 Screening Test by XRF Spectroscopy

Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured with reference to IEC 62321-3-1 Edition 1.0: 2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances.

(A) Results:

Screened Components	XRF Results		Chemical Confirmation Result
1	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
2	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
3	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
4	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
5	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
6	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
7	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
8	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
9	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
10	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
11	Cd	ND	Cr ⁶⁺ : ND
	Pb	Detected	
	Hg	ND	
	Cr	Inconclusive	
	Br	ND	
12	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
13	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
14	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
15	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
16	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
17	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
18	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
19	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
20	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
21a	Cd	ND	PBBs : ND PBDEs : See appendix
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
21b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
21c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
21d	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
21e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
22	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
23	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
24	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
25	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
26	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
27a	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
27b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
28	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
29a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
29b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
29c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
29d	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
30	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
31	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
32	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
33	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
34	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
35	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
36	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
37a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
37b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
38	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
39	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
40	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
41	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
42	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
43	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
44	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
45	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
46	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
47	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
48	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
49	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
50	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
51a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
51b	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
51c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
51d	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
51e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
51f	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
51g	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
51h	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
51i	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
51j	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
51k	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
51l	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
51m	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
51n	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
51o	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
51p	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
51q	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
52	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
53	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
54	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
55	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
56	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
57	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
58	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
59	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
60	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
61	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
62	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
63	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
64	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
65	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
66a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
66b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
67a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
67b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
67c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
67d	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
67e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
67f	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
68	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
69	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
70a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
70b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
71a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
71b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
71c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
71d	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
71e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
71f	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
71g	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
71h	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
71i	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
71j	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
71k	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
71l	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
71m	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
71n	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
71o	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
71p	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
71q	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
72	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
73	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
74	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
75	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
76	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
77	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
78a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
78b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
79	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
80	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
81	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
82	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
83	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
84	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
85	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
86	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
87	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
88a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
88b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
88c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
88d	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
88e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
88f	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
89	Cd	ND	NT
	Pb	>1500mg/kg [#]	
	Hg	ND	
	Cr	ND	
	Br	ND	
90	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
91	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
92	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
93	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
94	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
95	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
96	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
97	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
98	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
99	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
100	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
101	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
102	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
103	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
104	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
105	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
106	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
107a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
107b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
108a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
108b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
109	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
110	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
111	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
112a	Cd	ND	PBBs : ND PBDEs : See appendix
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
112b	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
112c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
112d	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
112e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Detected	
112f	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
112g	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
112h	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
113	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
114a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
114b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
114c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
114d	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
114e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
114f	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
114g	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
114h	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
114i	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
114j	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
114k	Cd	ND	Cr ⁶⁺ : ND
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	ND	
114l	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
114m	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
114n	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
114o	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
114p	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
114q	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
115a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
115b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
115c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
115d	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
115e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
115f	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
115g	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
115h	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
115i	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
115j	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
115k	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
115l	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
115m	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	



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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
115n	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
115o	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
115p	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
115q	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
116	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
117	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
118	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
119	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
120	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
121a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
121b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
121c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
122	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
123	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
124	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
125	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
126	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
127	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
128	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
129	Cd	ND	Cr ⁶⁺ : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
130	Cd	ND	PBBs : ND PBDEs : See appendix
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
131	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
132	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
133	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
134	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
135	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
136	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
137	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
138	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
139	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
140	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
141	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
142	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
143	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
144	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
145	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
146	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
147	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
148	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
149	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Tests Conducted

(B) Phthalate Screening Test

Toys:

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
1	DIBP	P	NT
4	DIBP	P	NT
6	DIBP	P	NT
7	DIBP	P	NT
9	DIBP	P	NT
10	DIBP	P	NT
12	DIBP	P	NT
15	DIBP	P	NT
17	DIBP	P	NT
19	DIBP	P	NT
21a	DIBP	P	NT
21d	DIBP	P	NT
22	DIBP	P	NT
24	DIBP	P	NT
27a	DIBP	P	NT
28	DIBP	P	NT
29a	DIBP	P	NT
30	DIBP	P	NT
31	DIBP	P	NT
32	DIBP	P	NT
37a	DIBP	P	NT
39	DIBP	P	NT
42	DIBP	P	NT
43	DIBP	P	NT
44	DIBP	P	NT
45	DIBP	P	NT
47	DIBP	P	NT
48	DIBP	P	NT
49	DIBP	P	NT
51a	DIBP	P	NT
51b	DIBP	P	NT
51h	DIBP	P	NT
51j	DIBP	P	NT
51k	DIBP	P	NT
51n	DIBP	P	NT
52	DIBP	P	NT
53	DIBP	P	NT
54	DIBP	P	NT
55	DIBP	P	NT
56	DIBP	P	NT
57	DIBP	P	NT



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Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
58	DIBP	P	NT
59	DIBP	P	NT
61	DIBP	P	NT
65	DIBP	P	NT
66a	DIBP	P	NT
67b	DIBP	P	NT
67e	DIBP	P	NT
71a	DIBP	P	NT
71b	DIBP	P	NT
71h	DIBP	P	NT
71j	DIBP	P	NT
71k	DIBP	P	NT
71n	DIBP	P	NT
72	DIBP	P	NT
74	DIBP	P	NT
75	DIBP	P	NT
77	DIBP	P	NT
78a	DIBP	P	NT
79	DIBP	P	NT
80	DIBP	P	NT
81	DIBP	P	NT
82	DIBP	P	NT
83	DIBP	P	NT
84	DIBP	P	NT
85	DIBP	P	NT
87	DIBP	P	NT
88b	DIBP	P	NT
88e	DIBP	P	NT
91	DIBP	P	NT
92	DIBP	P	NT
96	DIBP	P	NT
97	DIBP	P	NT
98	DIBP	P	NT
101	DIBP	P	NT
102	DIBP	P	NT
103	DIBP	P	NT
105	DIBP	P	NT
109	DIBP	P	NT
110	DIBP	P	NT
112a	DIBP	P	NT
112d	DIBP	P	NT
112e	DIBP	P	NT
112f	DIBP	P	NT
113	DIBP	P	NT
114a	DIBP	P	NT
114b	DIBP	P	NT



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Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
114h	DIBP	P	NT
114j	DIBP	P	NT
114l	DIBP	P	NT
114n	DIBP	P	NT
115a	DIBP	P	NT
115b	DIBP	P	NT
115h	DIBP	P	NT
115j	DIBP	P	NT
115k	DIBP	P	NT
115n	DIBP	P	NT
116	DIBP	P	NT
118	DIBP	P	NT
120	DIBP	P	NT
123	DIBP	P	NT
124	DIBP	P	NT
128	DIBP	P	NT
130	DIBP	P	NT
137	DIBP	P	NT
148	DIBP	P	NT
150	DIBP	P	NT

DIBP = Di-(iso-butyl) phthalate

Detected = Below the lower screening limit of table (C) and pass

ND = Not detected

NT = Not tested

P = Pass

Negative = A negative test result indicated the concentration of Cr(VI) is less than threshold of 0.10µg/cm² for boiling-water-extraction procedures by UV-VIS Spectrophotometer analysis. The coating is considered a non-Cr(VI) based coating.

Remark:

(#) = As claimed by the declaration submitted from the supplier of applicant, the Lead content of the component comes from the constituent of glass or ceramic (other than dielectric ceramic in capacitors) in electrical and electronic component only, e.g. piezoelectronic devices, or in a glass or ceramic compound. According to EU RoHS Directive (2011/65/EU), Lead in ceramic or glass of the component can be exempted.



Tests Conducted

Appendix:

Testing Item	Result		
	21a	112a	130
Polybrominated Biphenyls (PBBs)(mg/kg)			
Monobromobiphenyl (MonoBB)	ND	ND	ND
Dibromobiphenyl (DiBB)	ND	ND	ND
Tribromobiphenyl (TriBB)	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND	ND
Polybrominated Diphenyl Ethers (PBDEs)(mg/kg)			
Monobromodiphenyl Ether (MonoBDE)	ND	ND	ND
Dibromodiphenyl Ether (DiBDE)	ND	ND	ND
Tribromodiphenyl Ether (TriBDE)	ND	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	ND
Octabromodiphenyl Ether (OctaBDE)	ND	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	76	58
Decabromodiphenyl Ether (DecaBDE)	9	484	276

(C) Screening Limits

(C1)XRF Screening limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 300 < X$	Not applicable	$P \leq 250 < X$



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Tests Conducted

(C2) Preliminary Screening limits in mg/kg for phthalates test.

Phthalates	Polymer Materials
Dibutyl phthalate (DBP)	P ≤ 600 < X
Di-(2-ethyl hexyl) phthalate (DEHP)	P ≤ 600 < X
Benzyl butyl phthalate (BBP)	P ≤ 600 < X
Di-(iso-butyl) phthalate (DIBP)	P ≤ 600 < X

P = Pass

X = Inconclusive result

F = Fail

mg/kg = milligram per kilogram = ppm

(D) Estimated Detection Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

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 and Chemical Confirmation Test Report is sufficient for its/his/her purposes.

The results 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 is required to obtain quantitative data.



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Tests Conducted

(E) Chemical Test Methods:

Testing Item	Testing Method	Reporting Limit
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Chromium (VI) (Cr ⁶⁺) Content	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer	0.10µg/cm ²
Chromium (VI)(Cr ⁶⁺) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, Hexavalent chromium – Determination of hexavalent chromium (Cr(VI) in polymers and electronics by the colorimetric method	10 mg/kg
Dibutyl phthalate (DBP) & Di-(2-ethyl hexyl) phthalate (DEHP) & Benzyl butyl phthalate (BBP) & Di-(iso-butyl) phthalate (DIBP)	With reference to IEC 62321-8 Edition 1.0:2017, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis	100mg/kg

(F) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Di-(2-ethyl hexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di-(iso-butyl) phthalate (DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863 for homogeneous material.

Tested Components:

- (1) Semi-transparent black plastic.
- (2) Silver color metal.
- (3) Silver color metal.
- (4) Black plastic.
- (5) Silver color metal wire.



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Tests Conducted

Tested Components:

- (6) Deep blue soft plastic(thick wire covering).
 - (7) Red soft plastic(thick wire covering).
 - (8) Silver color metal.
 - (9) Conformal coating with green solder mask & copper color metal pad & fibreboard (PCB).
 - (10) Black body with beige printing & silver color metal (SMD triode) .
 - (11) White ceramic with black material & white printing & silver color metal (SMD resistor) .
 - (12) Transparent plastic with silver color metal (SMD capacitor) .
 - (13) Solder.
 - (14) Copper color metal wire.
 - (15) Black soft plastic with white printing(wire covering).
 - (16) Silver color metal.
 - (17) Light brown soft plastic.
 - (18) Silver color metal.
 - (19) Light brown plastic.
 - (20) Solder.
 - (21) Switch.
 - a) Black plastic (button).
 - b) Silver color metal sheet .
 - c) Copper/silver color metal sheet .
 - d) Black plastic (holder).
 - e) Silver color metal (pin).
 - (22) Conformal coating with green solder mask & copper color metal pad & fibreboard (PCB).
 - (23) Silver color metal sheet.
 - (24) Beige plastic.
 - (25) Red metal wire.
 - (26) Gray-black magnet.
 - (27) LED .
 - a) Transparent red plastic .
 - b) Silver color metal (pin).
 - (28) Black plastic.
 - (29) Inductor.
 - a) Green plastic with coatings(silver color, gold color, orange) .
 - b) Black magnet .
 - c) Copper color enamelled wire .
 - d) Silver color metal (pin).
 - (30) White soft plastic(thin wire covering).
 - (31) Red soft plastic(thin wire covering).
 - (32) Black soft plastic(thin wire covering).
 - (33) Light gray ceramic with silver color metal (SMD capacitor) .
 - (34) Dark grey ceramic with silver color metal (SMD inductor).
 - (35) White ceramic with silver color metal (SMD capacitor) .
 - (36) Brown ceramic with silver color metal (SMD capacitor) .
 - (37) IC .
 - a) Black body .
 - b) Silver color metal (pin).
 - (38) Solder.
 - (39) Transparent deep blue plastic.
 - (40) Silver color metal.
- *****



Test Report

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Tests Conducted

Tested Components:

- (41) Silver color metal sheet.
- (42) Bright silver color coating on plastic.
- (43) Black plastic excluding coatings.
- (44) Black plastic.
- (45) Off-white plastic.
- (46) Silver color metal.
- (47) Gray plastic.
- (48) White coating on plastic.
- (49) Black coating on plastic.
- (50) Silver color metal.
- (51) Motor.
 - a) Yellow plastic (lid).
 - b) Semi-transparent plastic.
 - c) Copper color metal (brush).
 - d) Dull silver color metal (case).
 - e) Dull copper color metal (washer of case).
 - f) Grey-black metal (fork).
 - g) Black magnet with white coating.
 - h) White plastic (washer).
 - i) Gold color metal sheet.
 - j) Red plastic(washer).
 - k) Semi-transparent plastic(washer).
 - l) Solder.
 - m) Silver-grey metal sheet .
 - n) White plastic sheet .
 - o) Copper color metal wire.
 - p) Copper color metal (washer).
 - q) Silver color metal (axle).
- (52) Yellow soft plastic(thick wire covering).
- (53) Yellow soft plastic(thin wire covering).
- (54) Green soft plastic(thin wire covering).
- (55) Deep green soft plastic(thick wire covering).
- (56) White soft plastic(thick wire covering).
- (57) Deep blue soft plastic(thin wire covering).
- (58) Yellow green soft plastic(thick wire covering).
- (59) Light brown soft plastic(thick wire covering).
- (60) Copper color metal wire.
- (61) Conformal coating with green solder mask & copper color metal pad & fibreboard (PCB).
- (62) Solder.
- (63) Solder.
- (64) Beige ceramic with silver color metal (SMD capacitor) .
- (65) Black body with brown printing & silver color metal (SMD diode) .
- (66) IC .
 - a) Black body .
 - b) Silver color metal (pin).



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Tests Conducted

Tested Components:

- (67) Switch.
 - a) Black treated metal (case).
 - b) Red plastic .
 - c) Silver color metal sheet .
 - d) Silver color metal (spring).
 - e) Light brown plastic.
 - f) Light silver color metal (pin).
- (68) Solder.
- (69) Solder.
- (70) Capacitor.
 - a) Brown ceramic body .
 - b) Silver color metal (pin).
- (71) Motor.
 - a) Green plastic (lid).
 - b) Semi-transparent plastic.
 - c) Copper color metal (brush).
 - d) Dull silver color metal (case).
 - e) Dull copper color metal (washer of case).
 - f) Grey-black metal (fork).
 - g) Black magnet with white coating.
 - h) White plastic (washer).
 - i) Gold color metal sheet.
 - j) Red plastic(washer).
 - k) Semi-transparent plastic(washer).
 - l) Solder.
 - m) Silver-grey metal sheet .
 - n) White plastic sheet .
 - o) Copper color metal wire.
 - p) Copper color metal (washer).
 - q) Silver color metal (axle).
- (72) Black soft plastic.
- (73) Silver color metal.
- (74) Orange plastic.
- (75) Transparent plastic.
- (76) Silver color metal.
- (77) Semi-transparent/yellow glue.
- (78) LED .
 - a) Transparent plastic .
 - b) Silver color metal (pin).
- (79) Beige tape.
- (80) Fuchsia soft plastic(thin wire covering).
- (81) Black soft plastic with white printing.
- (82) Blue soft plastic(thin wire covering).
- (83) Conformal coating with green solder mask & copper color metal pad & fibreboard (PCB).
- (84) Yellow green soft plastic(thin wire covering).
- (85) White soft plastic(thin wire covering).



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Tests Conducted

Tested Components:

- (86) Solder.
- (87) Black soft plastic.
- (88) Switch.
 - a) Silver color metal (case).
 - b) Black plastic .
 - c) Silver color metal sheet .
 - d) Silver color metal (spring).
 - e) Light brown plastic.
 - f) Light silver color metal (pin).
- (89) Transparent glass with inaccessible orange-red / black material & silver color metal (SMD diode) .
- (90) Solder.
- (91) Brown plastic.
- (92) Silver color string.
- (93) Silver color metal (spring).
- (94) Silver color metal .
- (95) Silver color metal (spring).
- (96) Black knit string.
- (97) Dull black soft plastic.
- (98) Silver color coating on plastic.
- (99) Silver color metal sheet.
- (100) Solder.
- (101) Brown soft plastic(thin wire covering).
- (102) Light green soft plastic(thin wire covering).
- (103) Light orange soft plastic(thin wire covering).
- (104) Silver color metal sheet.
- (105) Conformal coating with green solder mask & copper color metal pad & fibreboard (PCB).
- (106) Solder.
- (107) Inductor.
 - a) Beige ceramic with coatings (gold color,black,brown) .
 - b) (d) silver color metal (pin).
- (108) Inductor.
 - a) Beige ceramic with coatings (gold color,black,brown,yellow) .
 - b) (d) silver color metal (pin).
- (109) Black plastic with IC chip & silver color metal(IC package).
- (110) Conformal coating with green solder mask & copper color metal pad & fibreboard (PCB).
- (111) Solder.
- (112) Speaker.
 - a) Black plastic .
 - b) Multicolor metal .
 - c) Dark grey-black magnet with transparent glue .
 - d) Conformal coating with green solder mask & copper color metal pad & fibreboard & solder (PCB).
 - e) Transparent yellow glue .
 - f) Transparent plastic.
 - g) Silver color metal (washer).
 - h) Copper color enamelled wire .



Test Report

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Tests Conducted

Tested Components:

- (113) Semi-transparent glue.
- (114) Motor.
 - a) Off-white plastic (lid).
 - b) Semi-transparent plastic.
 - c) Copper color metal (brush).
 - d) Dull silver color metal (case).
 - e) Dull gray color metal (washer of case).
 - f) Grey-black metal (fork).
 - g) Black magnet.
 - h) White plastic (washer).
 - i) Copper color metal sheet.
 - j) Red plastic(washer).
 - k) Black magnet with silver color metal & solder & beige printing .
 - l) Semi-transparent plastic(washer).
 - m) Silver-grey metal sheet .
 - n) White plastic sheet .
 - o) Copper color metal wire.
 - p) Copper color metal (washer).
 - q) Silver color metal (axle).
- (115) Motor.
 - a) Deep blue plastic (lid).
 - b) Semi-transparent plastic.
 - c) Copper color metal (brush).
 - d) Dull silver color metal (case).
 - e) Dull gray color metal (washer of case).
 - f) Grey-black metal (fork).
 - g) Black magnet.
 - h) White plastic (washer).
 - i) Copper color metal sheet.
 - j) Red plastic(washer).
 - k) Semi-transparent plastic(washer).
 - l) Solder.
 - m) Silver-grey metal sheet .
 - n) White plastic sheet .
 - o) Copper color metal wire.
 - p) Copper color metal (washer).
 - q) Silver color metal (axle).
- (116) Transparent soft plastic.
- (117) Solder.
- (118) Green soft plastic(thinner wire covering).
- (119) Silver color metal.
- (120) Semi-transparent plastic.
- (121) Bulb.
 - a) Transparent glass .
 - b) Dark silver-grey metal .
 - c) Silver color/red metal (pin).



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Tests Conducted

Tested Components:

- (122) Red coating on plastic.
- (123) Black plastic.
- (124) Black frosted plastic.
- (125) Silver color metal.
- (126) Solder.
- (127) Dull silver color metal.
- (128) Orange frosted plastic.
- (129) Silver color metal.
- (130) Dull black plastic.
- (131) Silver color metal.
- (132) Silver color metal.
- (133) Silver color metal.
- (134) Silver color metal.
- (135) Silver color metal.
- (136) Solder.
- (137) Transparent/semi-transparent plastic.
- (138) Solder.
- (139) Silver color metal sheet.
- (140) Silver color metal(spring).
- (141) Silver color metal.
- (142) Solder.
- (143) Solder.
- (144) Solder.
- (145) Solder.
- (146) Solder.
- (147) Solder.
- (148) Semi-transparent yellow glue.
- (149) Solder.
- (150) Red wet paint

Date sample received: Jul 16, 2019, Jul 17, 2019, Aug 14, 2019 & Aug 29, 2019

Testing period: Jul 16, 2019 to Sep 06, 2019



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Tests Conducted

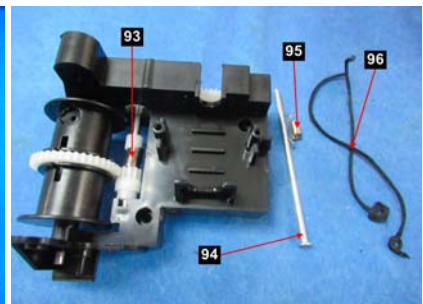
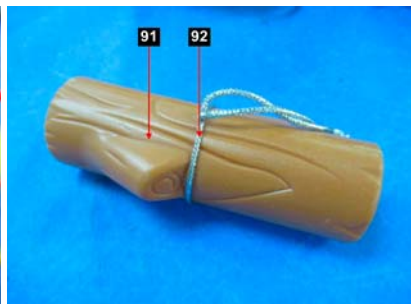
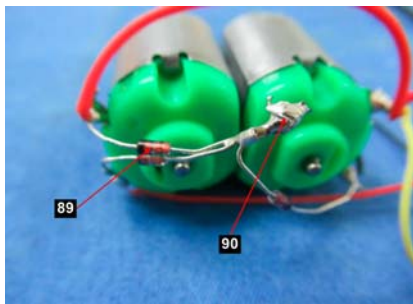
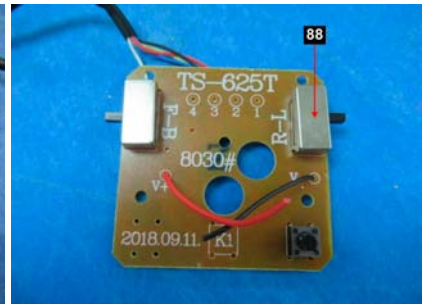
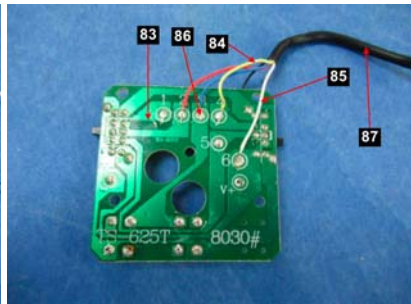
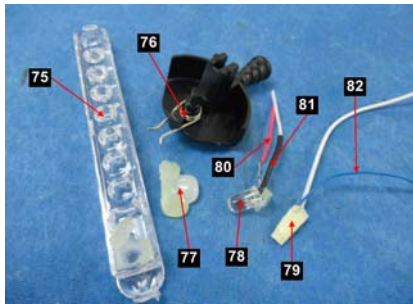
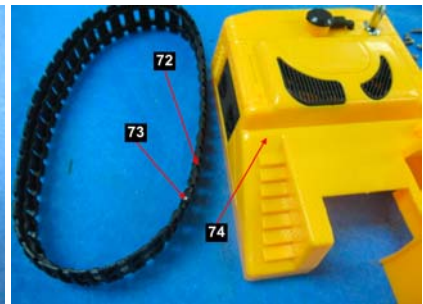
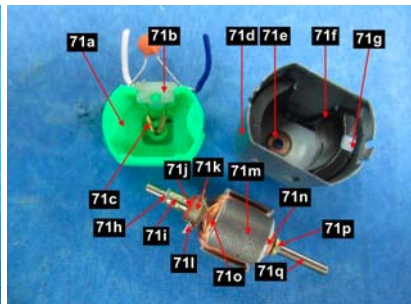
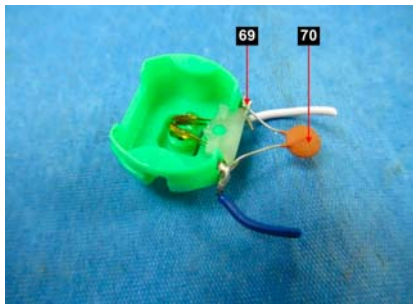
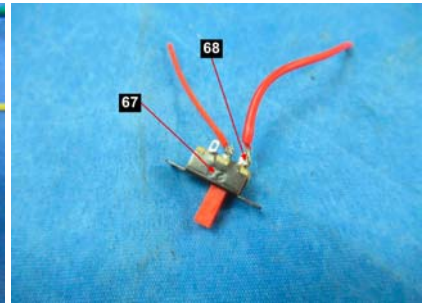
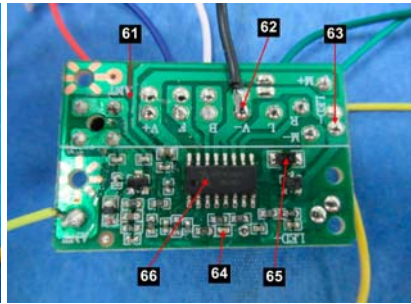
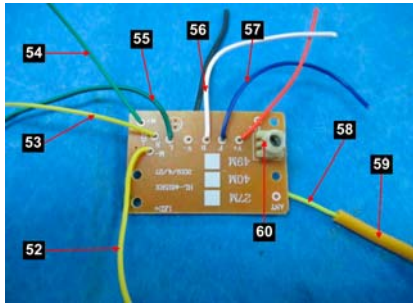




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Tests Conducted

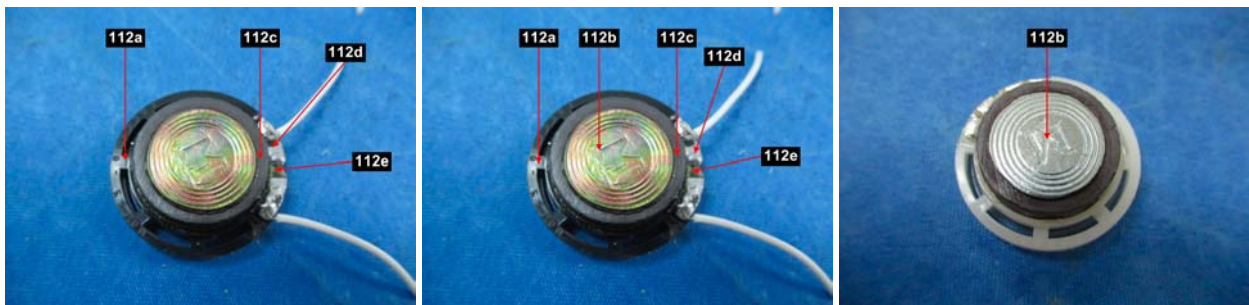
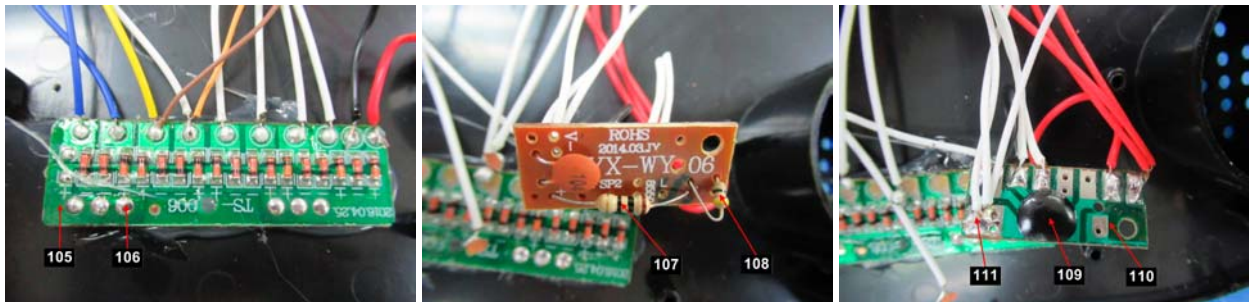
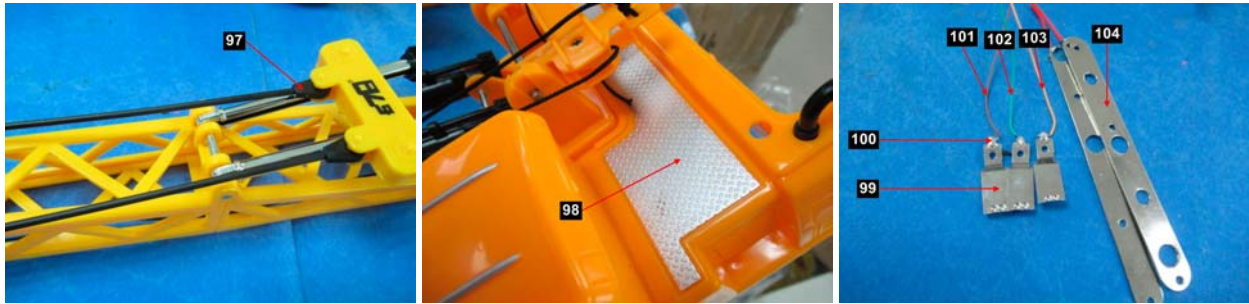




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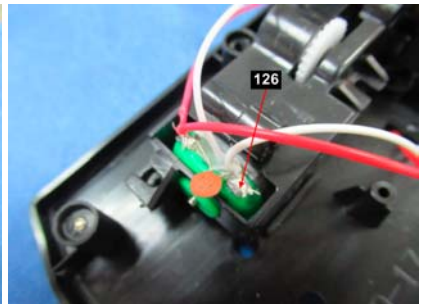
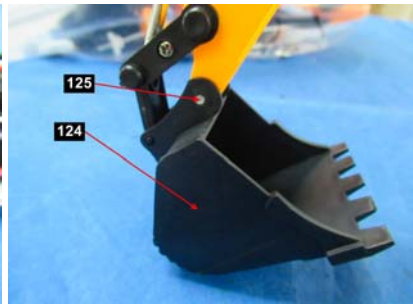
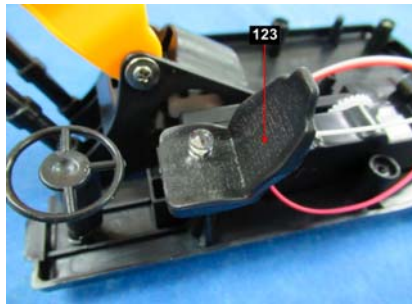
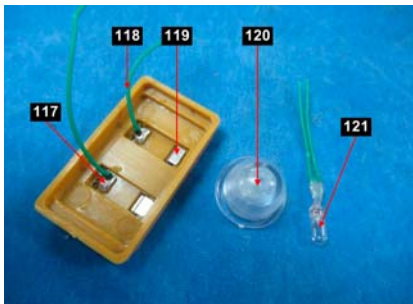
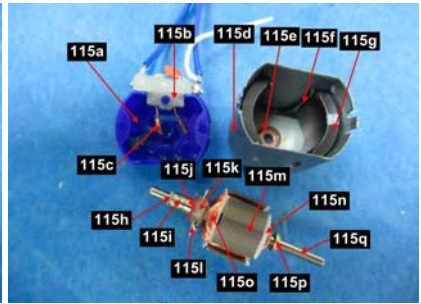
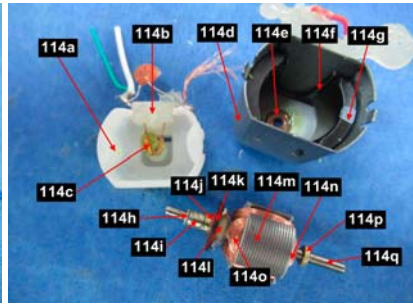
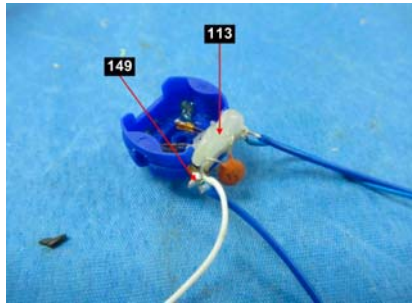




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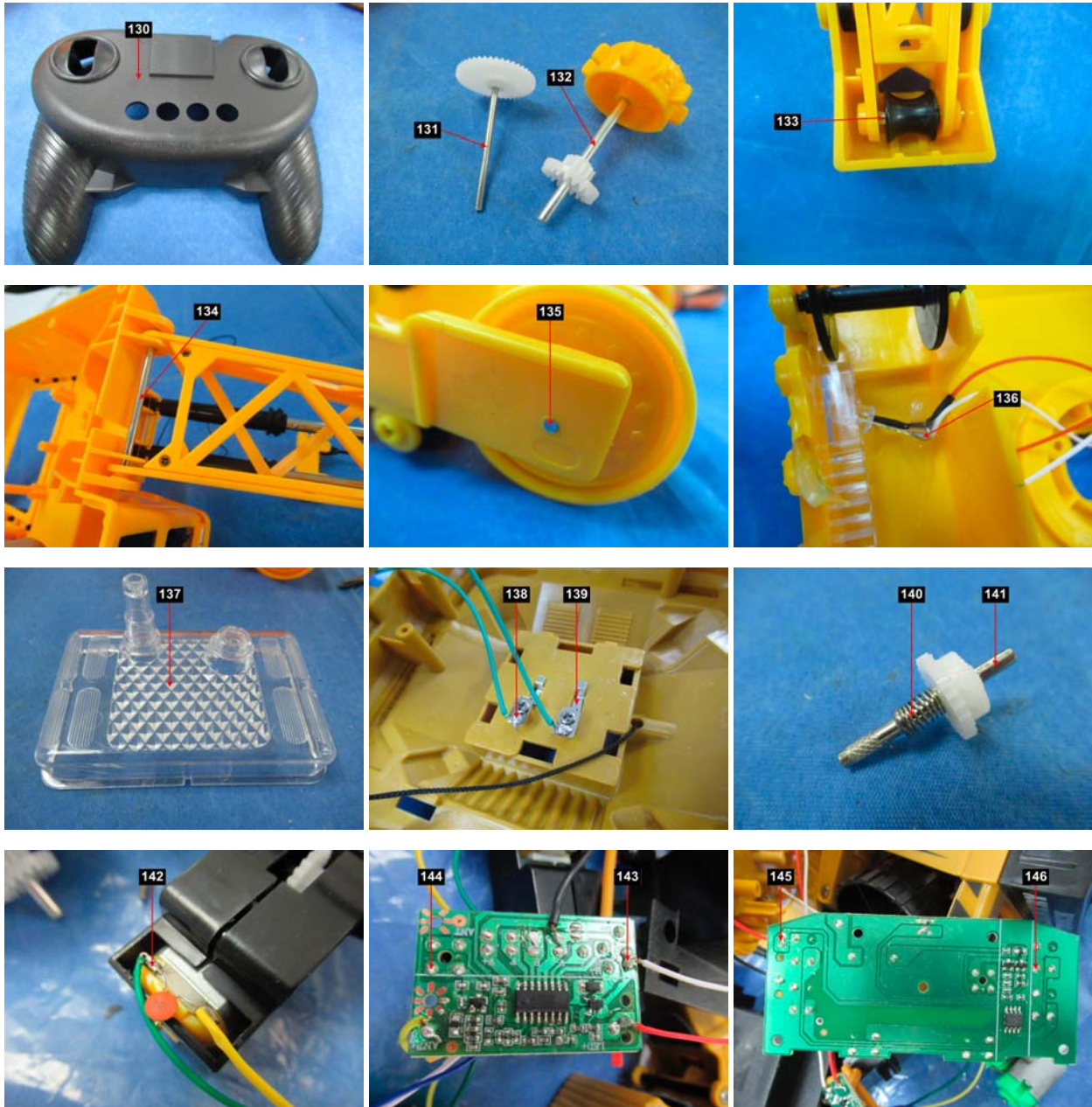




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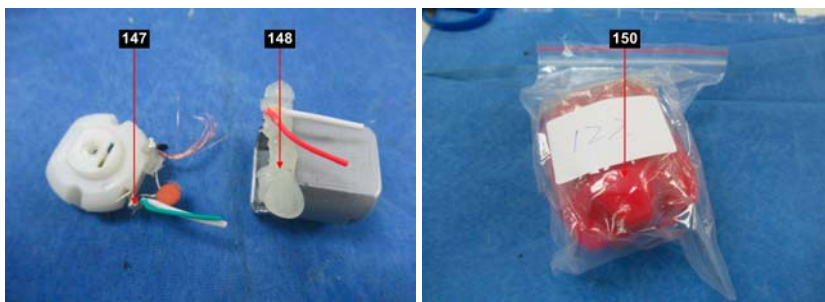




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End of report

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