



TEST REPORT

LAB NO. : (2420)199-0089
DATE : August 04, 2020
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Applicant:
JIANGSU SAINTY MACHINERY IMP.& EXP. CO.,LTD
BUILDING C, 21 SOFTWARE AVENUE, NANJING, CHINA

Date of Submission: 2020-07-17, 2020-07-31
Test Period: 2020-07-17 to 2020-08-04

Sample Description:	scales		
Sample Status:	Intact		
Manufacturer:	/	Buyer:	/
Style No.(s):	SS-1032; SS-1022;SS-4000	PO No.:	/
Country of Origin:	/	Country of Destination:	/

Test Item(s): Details see attached page(s).

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Compliance Test - Heavy Metals, Flame Retardants Content - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments	PASS
Compliance Test - Phthalate Test – (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS

Note: The tested part of the sample was specified by client.
The composite testing was performed as per client's request.
The test conclusion was given based on the results of tested part.

REMARK

If there are questions or concerns on this report, please contact the following persons:

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NINGBO BRANCH



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Photo of the Submitted Sample



24201990089



TEST RESULT

Compliance Test - Heavy Metals, Flame Retardants Content - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments

Test Method : See Appendix.

See Analytes and their corresponding Maximum Allowable Limit in Appendix

-			Result					Conclusion
Parameter			Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-
Tested components of SS-1032; SS-1022; SS-4000								
1	Black plastic housing	Battery box	ND	ND	ND	ND	ND	PASS
2	Black soft plastic slice	Base	ND	ND	ND	ND	ND	PASS
3	Transparent glass cover	Cover	ND	ND	ND	ND	NA	PASS
4	White soft plastic	Part	ND	ND	ND	ND	ND	PASS
5	Transparent soft plastic	Part	ND	ND	ND	ND	ND	PASS
6	Transparent soft plastic	Part	ND	ND	ND	ND	ND	PASS
7	White soft plastic sheet	Inside	ND	ND	ND	ND	ND	PASS
8	White soft plastic sheet	Inside	ND	ND	ND	ND	ND	PASS
9	Coppery metal sheet	Inside	ND	ND	ND	ND	NA	PASS
10	Silvery metal screw	Part	ND	ND	ND	ND	NA	PASS
11	Black plastic sheet	Part	ND	ND	ND	ND	ND	PASS
12	Silvery metal sheet	Part	<500	ND	ND	ND	NA	PASS
13	White soft plastic sheet	Inside	ND	ND	ND	ND	ND	PASS
14	Black plastic lid	Part	ND	ND	ND	ND	ND	PASS
15	White soft plastic wire	Inside	ND	ND	ND	ND	ND	PASS
16	Red soft plastic wire	Inside	ND	ND	ND	ND	ND	PASS
17	Black soft plastic wire	Inside	ND	ND	ND	ND	ND	PASS
18	Silvery metal wire	Inside	ND	ND	ND	ND	NA	PASS
19	Black soft plastic wire	Inside	ND	ND	ND	ND	ND	PASS
20	Red soft plastic wire	Inside	ND	ND	ND	ND	ND	PASS
21	Coppery metal wire	Inside	ND	ND	ND	ND	NA	PASS
22	Silvery metal solder	Part	<500	ND	ND	ND	NA	PASS
23	Green PCB	PCB	ND	ND	ND	ND	ND	PASS
24	Black chip resistance	PCB	EX [#]	ND	ND	ND	ND	EX [#]
25	Gray capacitor	PCB	ND	ND	ND	ND	ND	PASS
26	Silvery metal solder ^{R1}	PCB	ND	ND	ND	ND	NA	PASS
27	Black plastic sheet	PCB	ND	ND	ND	ND	ND	PASS
28	Transparent glass	Part	ND	ND	ND	ND	NA	PASS
29	Transparent soft plastic sheet	Part	ND	ND	ND	ND	ND	PASS
30	Silvery plastic sheet	Part	ND	ND	ND	ND	ND	PASS
31	Black soft plastic article	Part	ND	ND	ND	ND	ND	PASS
32	Black plastic housing	Cover	ND	ND	ND	ND	ND	PASS
33	Silvery metal solder	Battery box	<500	ND	ND	ND	NA	PASS



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-			Result					
Parameter			Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	Conclusion
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-
34	Silvery metal sheet	Battery box	ND	ND	ND	ND	NA	PASS
Tested different components for additional model(s)								
35	black plastic housing	Battery box	ND	ND	ND	ND	ND	PASS
36	Black plastic housing	Cover	ND	ND	ND	ND	ND	PASS
37	Black plastic sheet	Cover	ND	ND	ND	ND	ND	PASS
38	Yellow soft plastic sheet	Part	ND	ND	ND	ND	ND	PASS
39	Yellow wood	Cover	ND	ND	ND	ND	ND	PASS
40	Gray plastic sheet	Inside	ND	ND	ND	ND	ND	PASS
41	Black plastic wire	Inside	ND	ND	ND	ND	ND	PASS
42	Black soft plastic slice	Base	ND	ND	ND	ND	ND	PASS
43	Silvery white plastic housing	Cover	ND	ND	ND	ND	ND	PASS
44	Transparent plastic housing	Battery box	ND	ND	ND	ND	ND	PASS
45	Silvery metal spring	Battery box	<500	ND	ND	ND	NA	PASS
46	Transparent plastic housing	Cover	ND	ND	ND	ND	ND	PASS
47	White transparent soft plastic sheet	Part	ND	ND	ND	ND	ND	PASS
48	Transparent plastic sheet	Part	ND	ND	ND	ND	ND	PASS
49	White plastic sheet	Part	ND	ND	ND	ND	ND	PASS
50	White LED	PCB	ND	ND	ND	ND	ND	PASS
51	Silvery white plastic housing	Cover	ND	ND	ND	ND	ND	PASS
52	Silvery white plastic key	Cover	ND	ND	ND	ND	ND	PASS
53	Black silvery plastic sheet	Inside	ND	ND	ND	ND	ND	PASS
54	Silvery metal sheet	PCB	ND	ND	ND	ND	NA	PASS
55	White plastic sheet	Part	ND	ND	ND	ND	ND	PASS
56	Black soft plastic sheet	Part	ND	ND	ND	ND	ND	PASS
57	Silvery metal sheet	Part	ND	ND	ND	ND	NA	PASS
58	Silvery metal bar	Part	ND	ND	ND	ND	NA	PASS



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Note / Key :

ND = Not detected

NR = Not requested

Detection Limit: See Appendix.

R1=second submission

“>” = Greater than

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

NA = Not applicable

“<” = Less than

EX= Exempted

Remark :

- The testing approach is listed in table of Appendix.
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.
- According to European Parliament and Council Directive 2011/65/EU, Article 5 “Adaptation of the Annexes to scientific and technical progress”, exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
- The components chosen to be screen for additional models have been agreed with the client.
- For item 24:
#According to Annex III of European Council Directive 2011/65/EU with Amendment (EU)2018/736, exemptions were granted a few materials and Clause 7(c)-I is reiterated here “Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.”. Test Item(s) was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.



TEST RESULT

Compliance Test - Phthalate Test – (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : Reference to IEC 62321-8: 2017.

Maximum Allowable Limit : 0.1% (Each)

Parameter	CAS No.	Unit	MDL	Result			
				1+11+14	2+31+42	4+5	6+7+8
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	MDL	Result			
				13	15+16+17	19+20+41	23+24+25+50
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	0.015	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	MDL	Result			
				27+32+35	29	30+47+49	36+44+48
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	MDL	Result			
				37+51+52	38+40+56	39	43+46+55
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS



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Parameter	CAS No.	Unit	MDL	Result
				53
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND
Conclusion	-	-	-	PASS

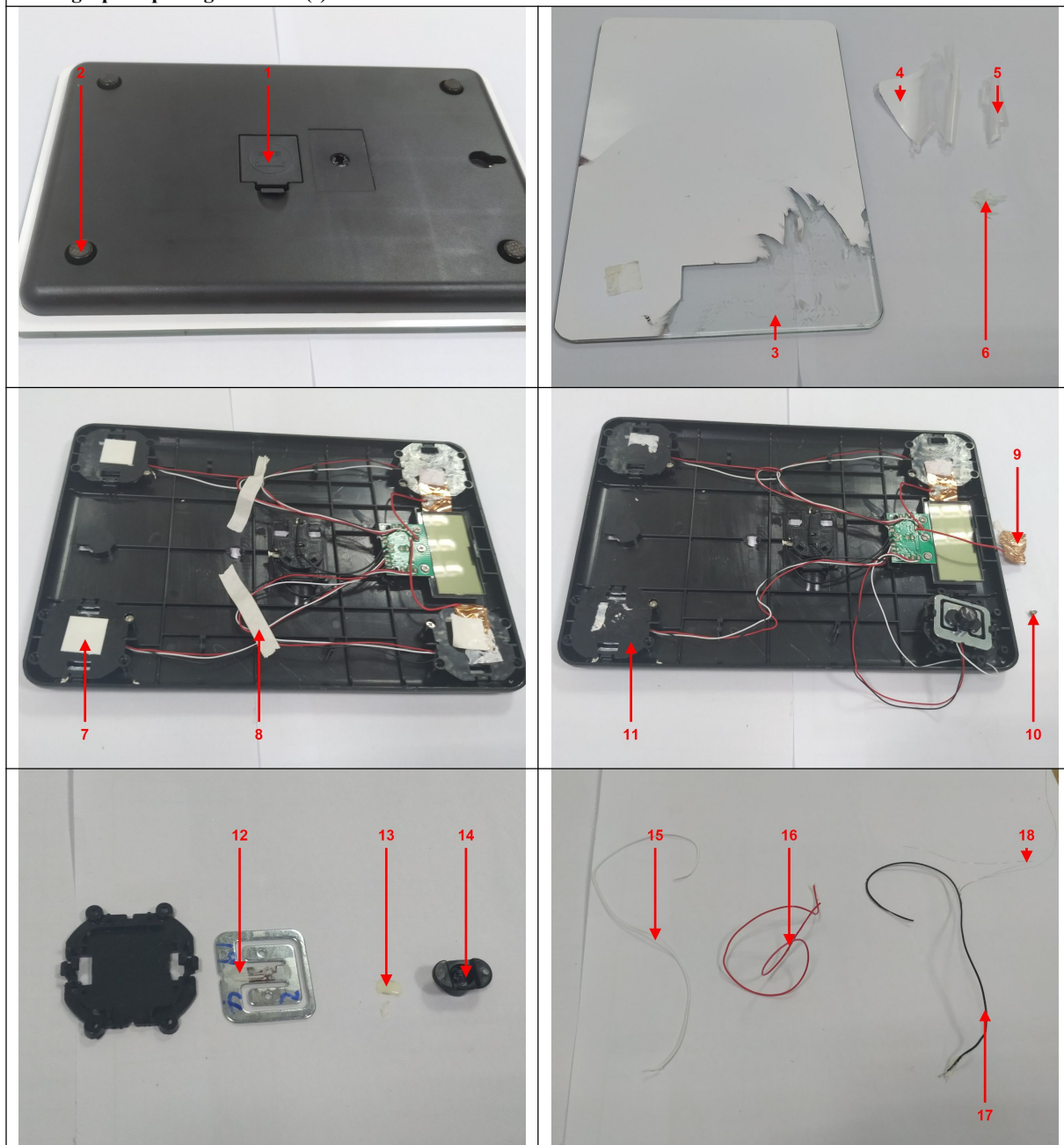
Note: mg/kg= milligram per kilogram % = percentage 1 mg/kg = 0.0001%
MDL = Method Detection Limit ND = Not Detected (< MDL) “-“ = Not Regulated



Comment :

Photograph(s) | Compliance Test for European Parliament and Council Directive 2011/65/EU | :

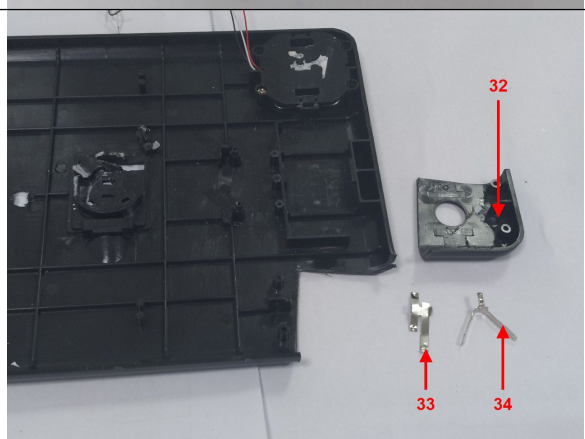
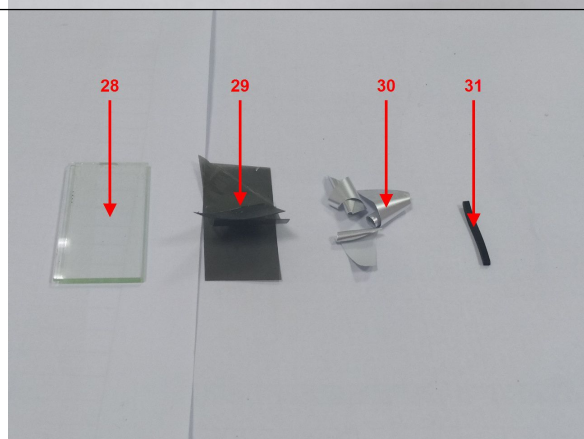
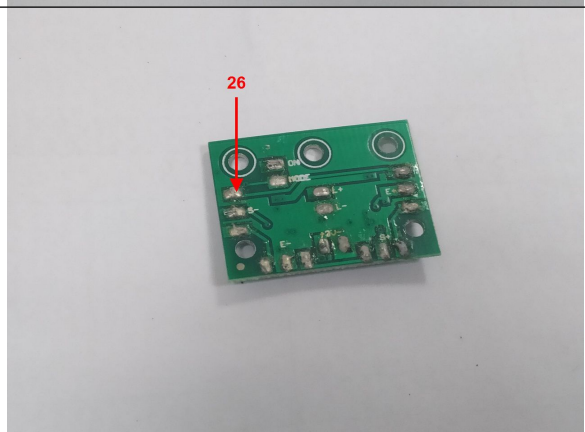
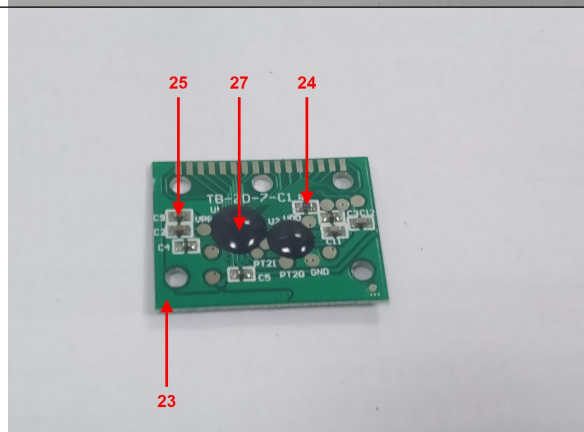
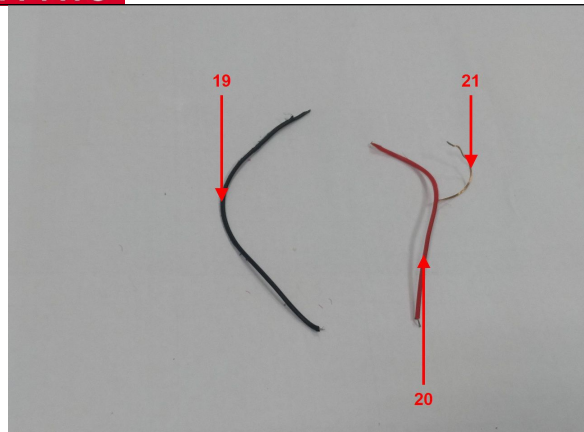
Photograph depicting Test Item(s)





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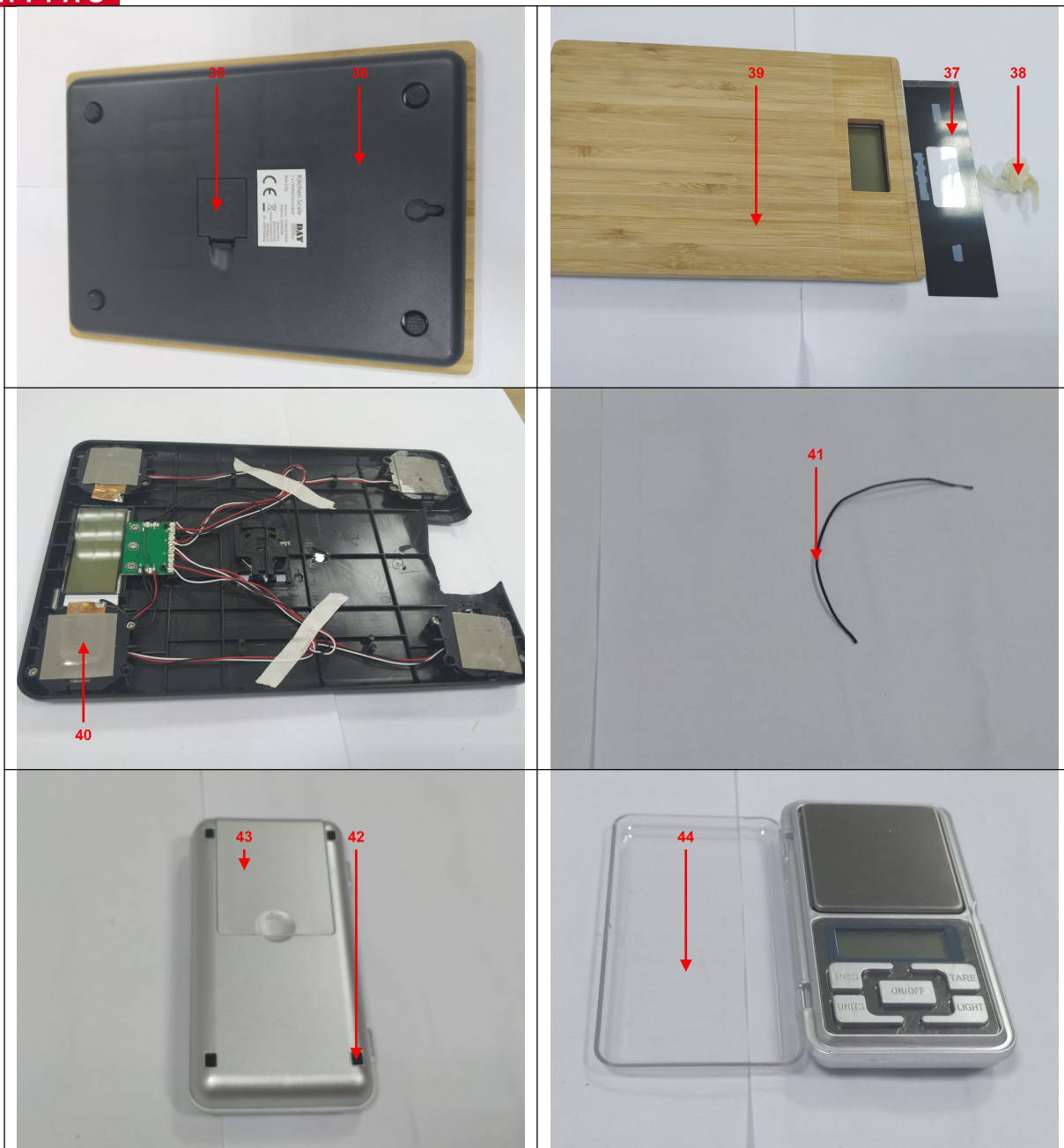
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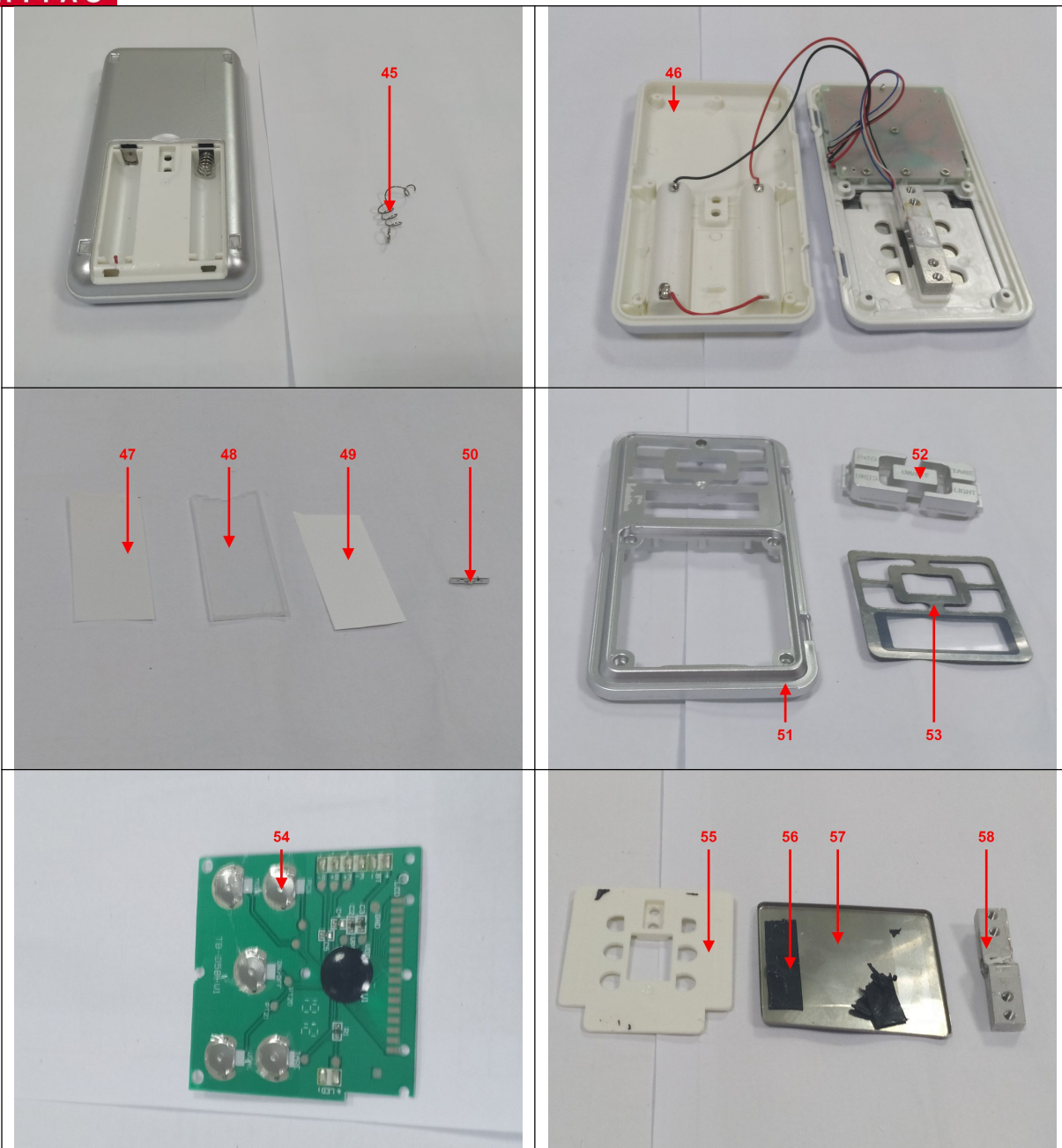
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APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Parliament and Council Directive 2011/65/EU] :

No.	Name of Analyte(s)	Detection Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF) ^[a]			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10 ^[b]	1 000
2	Cadmium (Cd)	50	50	50	10 ^[b]	100
3	Mercury (Hg)	100	200	200	10 ^[c]	1 000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3 ^[g, h] / 10 ^[d] / See ^[e, i]	1 000 / Negative ^[i]
6	Bromine (Br)	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50 ^[f]	Sum 1 000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Each 50 ^[f]	Sum 1 000

NA = Not applicable IEC = International Electrotechnical Commission

[a] Test method with reference to International Standard IEC 62321-3-1: 2013.

[b] Test method with reference to International Standard IEC 62321-5: 2013.

[c] Test method with reference to International Standard IEC 62321-4: 2013+AMD1: 2017 CSV.

[d] Polymers and Electronics - Test method with reference to International Standard IEC 62321-7-2: 2017.

[e] Metal - Test method with reference to International Standard IEC 62321-7-1: 2015.

[f] Test method with reference to International Standard IEC 62321-6: 2015.

[g] Leather - Test method International Standard ISO 17075: 2017.

[h] Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2017.

[i] Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).

Testing Approach [Compliance Test for European Parliament and Council Directive 2011/65/EU] :

The testing approach was with reference to the following document(s).

- 1 International Standards IEC 62321-1: 2013 and IEC 62321-2: 2013
- 2 "RoHS Enforcement Guidance Document Version 1" by EU RoHS Enforcement Authorities Informal Network. (May 2006)
- 3 "RoHS Regulations - Government Guidance Notes" by United Kingdom Department for Business Innovation & Skills. (February 2011)
- 4 "Final Report to RoHS substances (Hg, Pb, Cr(VI), Cd, PBB and PBDE) in electrical and electronic equipment in Belgium" by Belgium Federal Public Service Health, Food Chain Safety and Environment. (November 2005)

END



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Annex

The client declared that below model(s) consist(s) of above tested different components and part components of the tested model(s) SS-1032; SS-1022; SS-4000.

SS-1001 SS-1002 SS-1003 SS-1004 SS-1005 SS-1006
SS-1007 SS-1008 SS-1009 SS-1010 SS-1011 SS-1012
SS-1013 SS-1014 SS-1015 SS-1016 SS-1017 SS-1018
SS-1019 SS-1020 SS-1021 SS-1022 SS-1023 SS-1024
SS-1025 SS-1026 SS-1027 SS-1028 SS-1029 SS-1030
SS-1031 SS-1032 SS-1033 SS-1034 SS-1035 SS-1036
SS-1037 SS-1038 SS-1039 SS-1040 SS-1041 SS-1042
SS-1043 SS-1044 SS-1045 SS-1046 SS-1047 SS-1048
SS-1049 SS-1050 SS-1051 SS-1052 SS-1053 SS-1054
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SS-1061 SS-1062 SS-1063 SS-1064 SS-1065 SS-1066
SS-1067 SS-1068 SS-1069 SS-1070 SS-1071 SS-1072
SS-1073 SS-1074 SS-1075 SS-1076 SS-1077 SS-1078
SS-1079 SS-1080 SS-1081 SS-1082 SS-1083 SS-1084
SS-1085 SS-1086 SS-1087 SS-1088 SS-1089 SS-1090
SS-1091 SS-1092 SS-1093 SS-1094 SS-1095 SS-1096
SS-1097 SS-1098 SS-1099 SS-1100 SS-1101 SS-1101B SS-1102
SS-1103 SS-1104 SS-1105 SS-1106 SS-1107
SS-1108 SS-1109 SS-1110 SS-1111 SS-1112 SS-1113
SS-1114 SS-1115 SS-1116 SS-1117 SS-1118 SS-1119
SS-1120 SS-1121 SS-1122 SS-1123 SS-1124 SS-1125
SS-1126 SS-1127 SS-1128 SS-1129 SS-1130 SS-1131
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SS-1931 SS-1932 SS-1933 SS-1934 SS-1935 SS-1936
SS-1937 SS-1938 SS-1939 SS-1940 SS-1941 SS-1942
SS-1943 SS-1944 SS-1945 SS-1946 SS-1947 SS-1948
SS-1949 SS-3001 SS-3002 SS-3003 SS-3200 SS-4000



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Remark:

Since the client was not able to provide the sample of additional Style, above additional Style(s) hasn't been tested, but only based on the guarantee letter provided by the client. Bureau Veritas-CPS takes no responsibility for any mistakes and the problems of product consistency caused by inaccurate and/or invalid information submitted by the client. The client will take the responsibility of all discrepancy and risk.