



Test Report

Report No. ESTC-220531013
Date: 2 Aug 2022
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APPLICANT : **Zhuhai Gotech Intelligent Technology Co., Ltd.**
66 Yongda Road, Hongqi Town, Jinwan District, 519090 Zhuhai,
P.R.China

DATE OF SUBMISSION : 31 May 2022

TEST PERIOD : 31 May 2022 to 4 Jul 2022

SAMPLE DESCRIPTION : Door Bell

Model No. : MD7L, MD7LA, MD7LB, MD8L, MD8LA, MD9L

Supplier : /

Manufacturer : Zhuhai Gotech Intelligent Technology Co., Ltd.
2 jinliang Road, Hongqi Town, Jinwan District, Zhuhai 519090
P.R.China

Trade name: STAVIX

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)	PASS	-
Phthalates Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments up to EU No. 2015/ 863 Annex II	PASS	-

EST TECHNOLOGY CO., LTD.

Spark Zhang
Manager, Chemical Department



RT/ZH

REMARK

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

Report Enquiry: (86-769) 83081888 Ext. 618 E-mail: gdest@gdest.cn

Business Contact: (86-769) 83081888

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1. Material List

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
001		Black plastic	Case, door bell	-
002		Silvery metal	Magnet, case, door bell	-
003		Coppery metal	Nut, case, door bell	-
004		Black printed white plastic	Label, case, door bell	-
005		Black coated silvery metal	Screw, case, door bell	-
006		Silvery metal	Screw, case, door bell	-
007		Black soft plastic	Pads, case, door bell	-
008		Gray soft plastic	Cushion, door bell	-
009		Coppery metal	Terminal, insulation	-
010		Black plastic	Holder, terminal,	-
011		Black plastic	Insulation	-
012		Gray plastic	Insulation	-
013		Translucent plastic	Insulation	-
014		White glue	Glue	-
015		Silvery solder	Solder, patch	-
016		Black plastic with adhesive	Patch	-
017		Blue plastic	Patch, information	-
018		Blue printed white plastic	Information belt	-
019		Black soft plastic	Microphone sleeve	-
020		Silvery metal	Case, microphone	-
021		Silvery metal	Gasket, microphone	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
022		Silvery metal	Core of microphone	-
023		Coppery metal	Coil of microphone	-
024		Silvery solder	Solder, microphone	-
025		Green plastic	Board, microphone	-
026		Red soft plastic	Insulation	-
027		Black soft plastic	Insulation	-
028		White plastic	Connector	-
029		Silvery metal	Horn, connector	-
030			Black soft plastic	Speaker sleeve
031	Black plastic		Frame, speaker	-
032	Silvery metal		Cover, speaker	-
033	Black plastic		Net, cover, speaker	-
034	Silvery metal		Magnet, speaker	-
035	Transparent plastic		Dust cap, speaker	-
036	Coppery metal		Coil of dust cap	-
037	Silvery solder		Solder, speaker	-
038	Red soft plastic		Insulation	-
039	Black soft plastic		Insulation	-
040		Black plastic	Case, camera	-
041		Black plastic	Frame, camera	-
042		Transparent body	Glass plate, camera	-

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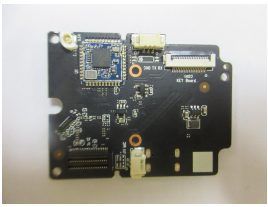
Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)	
043		Black plastic	Patch, camera	-	
044		Transparent body	Glass head, camera	-	
045		Silvery metal	Core of inductance	-	
046		Coppery metal	Coil of inductance	-	
047		Silvery solder	Solder, inductance	-	
048		Red soft plastic	Insulation	-	
049		Black soft plastic	Insulation	-	
050			Silvery metal	Case, Type-c socket	-
051			Black plastic	Holder, Type-c socket	-
052	Silvery metal		Horn, Type-c socket	-	
053	Rice white plastic		Connector	-	
054	Silvery metal		Horn, connector	-	
055	Gray body		SMD inductance	-	
056	Silvery body		SMD capacitor	-	
057	Black body		SMD IC	-	
058	Black body		SMD resistor	-	
059	Transparent body		U57	-	
060	Brown body	SMD capacitor	-		
061		Black plastic	Connector	-	
062		White plastic	Connector	-	
063		Black plastic	Holder, connector	-	

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
064		Black body	X1	-
065		White glue	Glue	-
066		White coated nature printed black plastic	PCB	-
067		White printed green plastic	Electrolytic capacitor sleeve	-
068		Silvery metal	Electrolytic capacitor shell	-
069		Black soft plastic	Rubber seal	-
070		Silvery metal	Aluminum foil	-
071		Brown paper	Electrolytic paper	-
072		Silvery metal	Pin of electrolytic capacitor	-
073		Silvery metal	Case, S2	-
074		Black plastic	Button, S2	-
075		Rice white plastic	Holder, S2	-
076		Silvery metal	Gasket, S2	-
077		Silvery metal	Case, S3	-
078		Black plastic	Button, S3	-
079		Silvery metal	Contact plate, S3	-
080		Brown plastic	Board, S3	-
081		Silvery metal	Case, SD card	-
082		Black plastic	Holder, SD card	-
083		Silvery metal	Horn, SD card	-
084	Silvery metal	contact plate, PCB	-	

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
085		Gray body	Inductance	-
086		Black body	SMD transistor	-
087		Black body	SMD diode	-
088		Deep gray body	Inductance	-
089		Silvery solder	Solder, PCB	-
090		White coated nature printed black plastic	PCB	-
091		Black coated silvery metal	Gasket, PCB	-
092		Transparent plastic	LED	-
093		Blue plastic	LED	-
094		Translucent plastic	Holder, LED	-
095		Silvery metal	Horn, LED	-
096		Black plastic	Cover, J17	-
097		Silvery metal	Case, J17	-
098		Transparent gray body	Glass plate, J17	-
099		Silvery metal	Horn, J17	-
100		Black plastic	Button	-
101		Silvery metal	Case, button	-
102		Black plastic	Holder, button	-
103		Silvery metal	Gasket, button	-
104		Silvery metal	Horn, button	-
105		Transparent body	SMD LED	-

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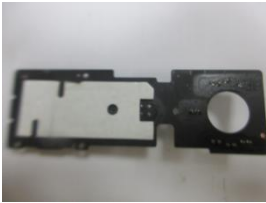




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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
106		Black foam with adhesive	Foam, PCB	-
107		Silvery solder	Solder, PCB	-
108		White coated nature printed black plastic	PCB	-
109		Blue plastic	Battery sleeve	-
110		Black foam	Foam, battery sleeve	-
111		Green paper with adhesive	Insulation paper	-
112		White plastic	Connector	-
113		Red soft plastic	Insulation	-
114		Black soft plastic	Insulation	-
115		Silvery metal	Wire	-
116		Silvery metal	Contact plate	-
117		Silvery solder	Solder, PCB	-
118		White coated nature printed green plastic	PCB	-
119		Black plastic	Cover, AC adapter	-
120		Transparent blue plastic	LED cover	-
121		Black soft plastic	Ring, cover	-
122		Translucent white soft plastic	Cushion, cover	-
123		Black plastic	Button, cushion	-
124		Black plastic	Ring, cover	-
125		Transparent glue	Glue, ring	-
126		Silvery metal	Screw, cover	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
127		Black plastic	Case, AC adapter	-
128		Silvery metal	AC plug	-
129		Black plastic	Holder, AC plug	-
130		Silvery solder	Solder, AC plug	-
131		Black plastic	Button, case. AC adapter	-
132		White printed black plastic	Electrolytic capacitor sleeve	-
133		Yellow printed green plastic	Electrolytic capacitor sleeve	-
134		Silvery metal	X2	-
135		Black plastic	Gasket, X2	-
136		Gray body	Fuse	-
137		Silvery metal	Terminal, fuse	-
138		Gray core	Core of inductance	-
139		Coppery metal	Coil of inductance	-
140		White body	SMD capacitor	-
141		Transparent body	SMD LED	-
142		Silvery solder	Solder, PCB	-
143		White coated nature printed green plastic	PCB	-
144		Black plastic	Frame, speaker	-
145		Color metal	Core of speaker	-
146		Black metal	Magnet, speaker	-
147		Transparent plastic	Dust cap, speaker	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
148		Coppery metal	Coil of speaker	-
149		Silvery metal	Case, speaker	-
150		Silvery solder	Solder, speaker	-
151		Green plastic	Board, speaker	-
152		Red soft plastic	Insulation	-
153		Black soft plastic	Insulation	-
154		Black plastic	Case, control box	-
155		Bright black plastic	Cover, control box	-
156		Translucent plastic	LED	-
157		Yellow glue	Glue	-
158		White glue	Glue	-
159		Black plastic	Button, case, control box	-
160		Silvery metal	Screw, case, control box	-
161		Silvery solder	Solder, board, speaker	-
162		Brown plastic	Board, speaker	-
163		Red soft plastic	Insulation	-
164	Black soft plastic	Insulation	-	
165		Silvery metal	Case, USB socket	-
166		White plastic	Holder, USB socket	-
167		Silvery metal	Horn, USB socket	-
168		Golden metal	Spring	-






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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
169		White soft plastic	Case, USB plug	-
170		Silvery metal	Case, USB plug	-
171		White plastic	Holder, USB plug	-
172		Silvery metal	Horn, USB plug	-
173		Silvery solder	Solder, USB plug	-
174		Translucent plastic	Filler, USB plug	-
175		White soft plastic	Cable jacket	-
176		Red soft plastic	Insulation	-
177		Black soft plastic	Insulation	-
178		Coppery metal	Wire	-
179		Silvery metal	Case, Type-c plug	-
180		Purple plastic	Holder, Type-c plug	-
181		Silvery metal	Horn, Type-c plug	-
182		Green plastic	PCB, Type-c plug	-
183		Cyan metal	Screw	-
184		Silvery metal	Circilp needle	-
185		Green plastic	Screw tube	-
186		Black soft plastic	Button	-
187		Silvery metal	AC plug	-

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2. Test Result

2.1: XRF Screening test results

Test Method: Cadmium, Lead, Mercury, Chromium, Bromine

-With reference to IEC 62321-3-1: 2013 -XRF Screening Procedure

Instrument: Energy dispersive X-ray fluorescence spectrometer

Material No.	ppm[mg/kg]				
	Pb	Cd	Hg	Cr	Br
	Limit (mg/kg)				
	1000	100	1000	Cr VI:1000	PBB: 1000 PBDE: 1000
001	ND	ND	ND	ND	ND
002	ND	ND	ND	ND	NA
003	D(*2)	ND	ND	ND	NA
004	ND	ND	ND	ND	ND
005	ND	ND	ND	ND	NA
006	ND	ND	ND	ND	NA
007	ND	ND	ND	ND	ND
008	ND	ND	ND	ND	ND
009	ND	ND	ND	ND	NA
010	ND	ND	ND	ND	ND
011	ND	ND	ND	ND	ND
012	ND	ND	ND	ND	ND
013	ND	ND	ND	ND	ND
014	ND	ND	ND	ND	ND
015	ND	ND	ND	ND	NA
016	ND	ND	ND	ND	ND
017	ND	ND	ND	ND	ND
018	ND	ND	ND	ND	ND
019	ND	ND	ND	ND	ND
020	ND	ND	ND	ND	NA
021	ND	ND	ND	ND	NA
022	ND	ND	ND	ND	NA
023	ND	ND	ND	ND	NA
024	ND	ND	ND	ND	NA
025	ND	ND	ND	ND	D(*1)
026	ND	ND	ND	ND	ND
027	ND	ND	ND	ND	ND
028	ND	ND	ND	ND	ND
029	ND	ND	ND	ND	NA
030	ND	ND	ND	ND	ND
031	ND	ND	ND	ND	ND
032	ND	ND	ND	D(*3)	NA
033	ND	ND	ND	ND	ND
034	ND	ND	ND	ND	NA

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035	ND	ND	ND	ND	ND
036	ND	ND	ND	ND	NA
037	ND	ND	ND	ND	NA
038	ND	ND	ND	ND	ND
039	ND	ND	ND	ND	ND
040	ND	ND	ND	ND	ND
041	ND	ND	ND	ND	ND
042	ND	ND	ND	ND	ND
043	ND	ND	ND	ND	ND
044	ND	ND	ND	ND	ND
045	ND	ND	ND	ND	NA
046	ND	ND	ND	ND	NA
047	ND	ND	ND	ND	NA
048	ND	ND	ND	ND	ND
049	ND	ND	ND	ND	ND
050	ND	ND	ND	ND	NA
051	ND	ND	ND	ND	ND
052	ND	ND	ND	ND	NA
053	ND	ND	ND	ND	D(*1)
054	ND	ND	ND	ND	NA
055	ND	ND	ND	ND	ND
056	ND	ND	ND	ND	ND
057	ND	ND	ND	ND	ND
058	ND	ND	ND	ND	D(*1)
059	ND	ND	ND	ND	ND
060	ND	ND	ND	ND	ND
061	ND	ND	ND	ND	ND
062	ND	ND	ND	ND	ND
063	ND	ND	ND	ND	ND
064	ND	ND	ND	ND	ND
065	ND	ND	ND	ND	ND
066	ND	ND	ND	ND	D(*1)
067	ND	ND	ND	ND	ND
068	ND	ND	ND	ND	NA
069	ND	ND	ND	ND	ND
070	ND	ND	ND	ND	NA
071	ND	ND	ND	ND	ND
072	ND	ND	ND	ND	NA
073	ND	ND	ND	ND	NA
074	ND	ND	ND	ND	ND
075	ND	ND	ND	ND	ND
076	ND	ND	ND	D(*3)	NA
077	ND	ND	ND	ND	NA
078	ND	ND	ND	ND	ND
079	ND	ND	ND	ND	NA
080	ND	ND	ND	ND	ND

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081	ND	ND	ND	D(*3)	NA
082	ND	ND	ND	ND	ND
083	ND	ND	ND	ND	NA
084	ND	ND	ND	D(*3)	NA
085	ND	ND	ND	ND	ND
086	ND	ND	ND	ND	ND
087	ND	ND	ND	ND	ND
088	ND	ND	ND	ND	ND
089	ND	ND	ND	ND	NA
090	ND	ND	ND	ND	D(*1)
091	ND	ND	ND	ND	NA
092	ND	ND	ND	ND	D(*1)
093	ND	ND	ND	ND	ND
094	ND	ND	ND	ND	ND
095	ND	ND	ND	ND	NA
096	ND	ND	ND	ND	ND
097	ND	ND	ND	ND	NA
098	D(*2)	ND	ND	ND	ND
099	ND	ND	ND	ND	NA
100	ND	ND	ND	ND	ND
101	ND	ND	ND	ND	NA
102	ND	ND	ND	ND	ND
103	ND	ND	ND	D(*3)	NA
104	ND	ND	ND	ND	NA
105	ND	ND	ND	ND	ND
106	ND	ND	ND	ND	ND
107	ND	ND	ND	ND	NA
108	ND	ND	ND	ND	D(*1)
109	ND	ND	ND	ND	ND
110	ND	ND	ND	ND	ND
111	ND	ND	ND	ND	ND
112	ND	ND	ND	ND	ND
113	ND	ND	ND	ND	ND
114	ND	ND	ND	ND	ND
115	ND	ND	ND	ND	NA
116	ND	ND	ND	ND	NA
117	ND	ND	ND	ND	NA
118	ND	ND	ND	ND	D(*1)
119	ND	ND	ND	ND	D(*1)
120	ND	ND	ND	ND	ND
121	ND	ND	ND	ND	ND
122	ND	ND	ND	ND	ND
123	ND	ND	ND	ND	ND
124	ND	ND	ND	ND	ND
125	ND	ND	ND	ND	ND
126	ND	ND	ND	ND	NA

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127	ND	ND	ND	ND	D(*1)
128	ND	ND	ND	ND	NA
129	ND	ND	ND	ND	D(*1)
130	ND	ND	ND	ND	NA
131	ND	ND	ND	ND	D(*1)
132	ND	ND	ND	ND	ND
133	ND	ND	ND	ND	ND
134	ND	ND	ND	ND	NA
135	ND	ND	ND	ND	ND
136	ND	ND	ND	ND	ND
137	ND	ND	ND	ND	NA
138	ND	ND	ND	ND	ND
139	ND	ND	ND	ND	NA
140	ND	ND	ND	ND	ND
141	ND	ND	ND	ND	ND
142	ND	ND	ND	ND	NA
143	ND	ND	ND	ND	ND
144	ND	ND	ND	ND	D(*1)
145	ND	ND	ND	ND	NA
146	ND	ND	ND	ND	NA
147	ND	ND	ND	ND	ND
148	ND	ND	ND	ND	NA
149	ND	ND	ND	ND	NA
150	ND	ND	ND	ND	NA
151	ND	ND	ND	ND	D(*1)
152	ND	ND	ND	ND	ND
153	ND	ND	ND	ND	ND
154	ND	ND	ND	ND	ND
155	ND	ND	ND	ND	ND
156	ND	ND	ND	ND	ND
157	ND	ND	ND	ND	ND
158	ND	ND	ND	ND	ND
159	ND	ND	ND	ND	ND
160	ND	ND	ND	ND	NA
161	ND	ND	ND	ND	NA
162	ND	ND	ND	ND	D(*1)
163	ND	ND	ND	ND	ND
164	ND	ND	ND	ND	ND
165	ND	ND	ND	ND	NA
166	ND	ND	ND	ND	D(*1)
167	ND	ND	ND	ND	NA
168	ND	ND	ND	ND	NA
169	ND	ND	ND	ND	ND
170	ND	ND	ND	ND	NA
171	ND	ND	ND	ND	ND
172	ND	ND	ND	ND	NA

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173	ND	ND	ND	ND	NA
174	ND	ND	ND	ND	ND
175	ND	ND	ND	ND	ND
176	ND	ND	ND	ND	ND
177	ND	ND	ND	ND	ND
178	ND	ND	ND	ND	NA
179	ND	ND	ND	D(*3)	NA
180	ND	ND	ND	ND	ND
181	ND	ND	ND	ND	NA
182	ND	ND	ND	ND	D(*1)
183	ND	ND	ND	ND	NA
184	ND	ND	ND	ND	NA
185	ND	ND	ND	ND	ND
186	ND	ND	ND	ND	ND
187	ND	ND	ND	ND	NA

Remark:

-mg/kg is equal to ppm (parts per million)

(*1) The screening result was found in the inconclusive region, thus the further wet chemistry tests are suggested.

(*2) The screening result was found above the limit, thus the further wet chemistry tests are suggested.

(*3) The chromium screening result was found in the inconclusive region, thus the further wet chemistry tests are suggested.

Guidelines: XRF Screening limits for different matrices

Materials	Concentration (ppm)				
	Cd	Cr	Pb	Hg	Br
Metallic	$BL \leq 70 < X \leq 130 < OL$	$BL \leq 700 < OL$	$BL \leq 700 < X \leq 1300 < OL$	$BL \leq 700 < X \leq 1300 < OL$	NA
Polymeric	$BL \leq 70 < X \leq 130 < OL$	$BL \leq 700 < OL$	$BL \leq 700 < X \leq 1300 < OL$	$BL \leq 700 < X \leq 1300 < OL$	$BL \leq 200 < X$
Electronic Components	$DL < X \leq 150 < OL$	$BL \leq 500 < OL$	$BL \leq 700 < X \leq 1300 < OL$	$BL \leq 500 < X \leq 1500 < OL$	$BL \leq 200 < X$

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2.2: Confirmation Test Results

Test Methods: for total Lead, Cadmium, Mercury

-Ref. to IEC 62321-4: 2013+AMD1:2017 & IEC 62321-5: 2013, analysis was performed by ICP-AES or AAS.

For Hexavalent Chromium

-Ref. to IEC 62321-7-1: 2015, analysis was performed by Spot-test and water-boiling procedure.(Metal)

-Ref. to IEC 62321-7-2: 2017, analysis was performed by UV/VIS(Polymeric and electronics).

-Ref. to International Standard ISO 17075-1: 2017(Leather and other materials).

For PBBs, PBDEs-Ref. to IEC 62321-6: 2015, analysis was performed by GC-MS.

	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs
Limit ppm (mg/kg)	1000	100	1000	1000	1000	1000

Material No.	ppm(mg/kg)					
	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs
003	26000(*1)	-	-	-	-	-
025	-	-	-	-	ND	ND
032	-	-	-	Negative	-	-
053	-	-	-	-	ND	ND
058	-	-	-	-	ND	ND
066	-	-	-	-	ND	ND
076	-	-	-	Negative	-	-
081	-	-	-	Negative	-	-
084	-	-	-	Negative	-	-
090	-	-	-	-	ND	ND
092	-	-	-	-	ND	ND
098	7900(*2)	-	-	-	-	-
103	-	-	-	Negative	-	-
108	-	-	-	-	ND	ND
118	-	-	-	-	ND	ND
119	-	-	-	-	ND	ND
127	-	-	-	-	ND	ND
129	-	-	-	-	ND	ND
131	-	-	-	-	ND	ND
144	-	-	-	-	ND	700
151	-	-	-	-	ND	ND
162	-	-	-	-	ND	ND
166	-	-	-	-	ND	ND
179	-	-	-	Negative	-	-
182	-	-	-	-	ND	ND

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Remark:

(*1) According to Annex III of European Parliament and Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(c) is reiterated here “Copper alloy containing up to 4 % lead by weight”.

(*2) According to Annex III of European Parliament and Council Directive 2011/65/EU, 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”.

Note / Key:

ND = Not Detected

“D” = detected

“BL” = below Limit

“X” = Inconclusive Range

“DL” = Detection Limit

“OL” = over Limit

NA = Not Applicable

10000 mg/kg = 1 %

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

Detection Limit : See Appendix.



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2.3: Detection Limit

List of Analytes Detection Limit and Maximum Allowable Limit Compliance Test for European Council Directive 2011/65/EU :							
No.	Name of Analytes	Detection Limit (mg/kg)				Wet Chemistry	Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF) ^[a]					
		Plastic	Metallic / glass / ceramic	Others			
1	Lead (Pb)	100	200	200	10	1000	
2	Cadmium (Cd)	50	50	50	10	100	
3	Mercury (Hg)	100	200	200	10	1000	
4	Chromium (Cr)	100	200	200	NA	NA	
5	Chromium VI (Cr VI)	NA	NA	NA	10 /Sec ^[a, b]	1000 / Negative ^[b]	
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	Sum 1000	
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	Sum 1000	
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.						
[b]	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).						

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BBP/DBP/DEHP/DIBP Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments up to EU No. 2015/ 863 Annex II

Test Methods:

With reference to International Standard IEC 62321-8:2017, Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
001	Black plastic	Case, door bell	-
004	Black printed white plastic	Label, case, door bell	-
007	Black soft plastic	Pads, case, door bell	-
008	Gray soft plastic	Cushion, door bell	-
010	Black plastic	Holder, terminal,	-
011	Black plastic	Insulation	-
012	Gray plastic	Insulation	-
013	Translucent plastic	Insulation	-
014	White glue	Glue	-
016	Black plastic with adhesive	Patch	-
017	Blue plastic	Patch, information	-
018	Blue printed white plastic	Information belt	-
019	Black soft plastic	Microphone sleeve	-
025	Green plastic	Board, microphone	-
026	Red soft plastic	Insulation	-
027	Black soft plastic	Insulation	-
028	White plastic	Connector	-
030	Black soft plastic	Speaker sleeve	-
031	Black plastic	Frame, speaker	-
033	Black plastic	Net, cover, speaker	-
035	Transparent plastic	Dust cap, speaker	-
038	Red soft plastic	Insulation	-
039	Black soft plastic	Insulation	-

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040	Black plastic	Case, camera	-
041	Black plastic	Frame, camera	-
043	Black plastic	Patch, camera	-
048	Red soft plastic	Insulation	-
049	Black soft plastic	Insulation	-
051	Black plastic	Holder, Type-c socket	-
053	Rice white plastic	Connector	-
061	Black plastic	Connector	-
062	White plastic	Connector	-
063	Black plastic	Holder, connector	-
065	White glue	Glue	-
066	White coated nature printed black plastic	PCB	-
067	White printed green plastic	Electrolytic capacitor sleeve	-
069	Black soft plastic	Rubber seal	-
074	Black plastic	Button, S2	-
075	Rice white plastic	Holder,S2	-
078	Black plastic	Button, S3	-
080	Brown plastic	Board, S3	-
082	Black plastic	Holder, SD card	-
090	White coated nature printed black plastic	PCB	-
092	Transparent plastic	LED	-
093	Blue plastic	LED	-
094	Translucent plastic	Holder, LED	-
096	Black plastic	Cover, J17	-
100	Black plastic	Button	-
102	Black plastic	Holder, button	-
106	Black foam with adhesive	Foam, PCB	-
108	White coated nature printed black plastic	PCB	-

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109	Blue plastic	Battery sleeve	-
110	Black foam	Foam, battery sleeve	-
111	Green paper with adhesive	Insulation paper	-
112	White plastic	Connector	-
113	Red soft plastic	Insulation	-
114	Black soft plastic	Insulation	-
118	White coated nature printed green plastic	PCB	-
119	Black plastic	Cover, AC adapter	-
120	Transparent blue plastic	LED cover	-
121	Black soft plastic	Ring, cover	-
122	Translucent white soft plastic	Cushion, cover	-
123	Black plastic	Button, cushion	-
124	Black plastic	Ring, cover	-
125	Transparent glue	Glue, ring	-
127	Black plastic	Case, AC adapter	-
129	Black plastic	Holder, AC plug	-
131	Black plastic	Button, case. AC adapter	-
132	White printed black plastic	Electrolytic capacitor sleeve	-
133	Yellow printed green plastic	Electrolytic capacitor sleeve	-
135	Black plastic	Gasket, X2	-
143	White coated nature printed green plastic	PCB	-
144	Black plastic	Frame, speaker	-
147	Transparent plastic	Dust cap, speaker	-
151	Green plastic	Board, speaker	-
152	Red soft plastic	Insulation	-
153	Black soft plastic	Insulation	-
154	Black plastic	Case, control box	-
155	Bright black plastic	Cover, control box	-

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156	Translucent plastic	LED	-
157	Yellow glue	Glue	-
158	White glue	Glue	-
159	Black plastic	Button, case, control box	-
162	Brown plastic	Board, speaker	-
163	Red soft plastic	Insulation	-
164	Black soft plastic	Insulation	-
166	White plastic	Holder, USB socket	-
169	White soft plastic	Case, USB plug	-
171	White plastic	Holder, USB plug	-
174	Translucent plastic	Filler, USB plug	-
175	White soft plastic	Cable jacket	-
176	Red soft plastic	Insulation	-
177	Black soft plastic	Insulation	-
180	Purple plastic	Holder, Type-c plug	-
182	Green plastic	PCB, Type-c plug	-
185	Green plastic	Screw tube	-
186	Black soft plastic	Button	-

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
001	ND	ND	ND	ND	PASS
004	ND	ND	ND	ND	PASS
007	ND	ND	ND	ND	PASS
008	ND	ND	ND	ND	PASS
010	ND	ND	ND	ND	PASS
011	ND	ND	ND	ND	PASS
012	ND	ND	ND	ND	PASS
013	ND	ND	ND	ND	PASS
014	ND	ND	ND	ND	PASS
016	ND	ND	ND	ND	PASS
017	ND	ND	ND	ND	PASS
018	ND	ND	ND	ND	PASS
019	ND	ND	ND	ND	PASS
025	ND	ND	ND	ND	PASS
026	ND	ND	ND	ND	PASS
027	ND	ND	ND	ND	PASS
028	ND	ND	ND	ND	PASS
030	ND	ND	ND	ND	PASS
031	ND	ND	ND	ND	PASS
033	ND	ND	ND	ND	PASS
035	ND	ND	ND	ND	PASS
038+039+176+177	ND	ND	0.007	ND	PASS
040	ND	ND	ND	ND	PASS
041	ND	ND	ND	ND	PASS
043	ND	ND	ND	ND	PASS
048	ND	ND	ND	ND	PASS
049	ND	ND	ND	ND	PASS

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
051	ND	ND	ND	ND	PASS
053	ND	ND	ND	ND	PASS
061	ND	ND	ND	ND	PASS
062	ND	ND	ND	ND	PASS
063	ND	ND	ND	ND	PASS
065	ND	ND	ND	ND	PASS
066	ND	ND	ND	ND	PASS
067	ND	ND	ND	ND	PASS
069	ND	ND	ND	ND	PASS
074	ND	ND	ND	ND	PASS
075	ND	ND	ND	ND	PASS
078	ND	ND	ND	ND	PASS
080	ND	ND	ND	ND	PASS
082	ND	ND	ND	ND	PASS
090	ND	ND	ND	ND	PASS
092	ND	ND	ND	ND	PASS
093	ND	ND	ND	ND	PASS
094	ND	ND	ND	ND	PASS
096	ND	ND	ND	ND	PASS
100	ND	ND	ND	ND	PASS
102	ND	ND	ND	ND	PASS
106	ND	ND	ND	ND	PASS
108	ND	ND	ND	ND	PASS
109	ND	ND	ND	ND	PASS
110	ND	ND	ND	ND	PASS
111	ND	ND	ND	ND	PASS
112	ND	ND	ND	ND	PASS
113	ND	ND	ND	ND	PASS

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
114	ND	ND	ND	ND	PASS
118	ND	ND	ND	ND	PASS
119	ND	ND	ND	ND	PASS
120	ND	ND	ND	ND	PASS
121	ND	ND	ND	ND	PASS
122	ND	ND	ND	ND	PASS
123	ND	ND	ND	ND	PASS
124	ND	ND	ND	ND	PASS
125	ND	ND	ND	ND	PASS
127	ND	ND	ND	ND	PASS
129	ND	ND	ND	ND	PASS
131	ND	ND	ND	ND	PASS
132	ND	ND	ND	ND	PASS
133	ND	ND	ND	ND	PASS
135	ND	ND	ND	ND	PASS
143	ND	ND	ND	ND	PASS
144	ND	ND	ND	ND	PASS
147	ND	ND	ND	ND	PASS
151	ND	ND	ND	ND	PASS
152	ND	ND	ND	ND	PASS
153	ND	ND	ND	ND	PASS
154	ND	ND	ND	ND	PASS
155	ND	ND	ND	ND	PASS
156	ND	ND	ND	ND	PASS
157	ND	ND	ND	ND	PASS
158	ND	ND	ND	ND	PASS
159	ND	ND	ND	ND	PASS
162	ND	ND	ND	ND	PASS

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
163	ND	ND	ND	ND	PASS
164	ND	ND	ND	ND	PASS
166	ND	ND	ND	ND	PASS
169	ND	ND	ND	ND	PASS
171	ND	ND	ND	ND	PASS
174	ND	ND	ND	ND	PASS
175	ND	ND	ND	ND	PASS
180	ND	ND	ND	ND	PASS
182	ND	ND	ND	ND	PASS
185	ND	ND	ND	ND	PASS
186	ND	ND	ND	ND	PASS

Note / key:

BBP = Butyl benzyl phthalate (CAS No: 85-68-7)

DEHP = Di(2-ethylhexyl) phthalate (CAS No: 117-81-7)

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005

% = percent

DBP = Dibutyl phthalate (CAS No: 84-74-2)

DiBP = Diisobutyl phthalate (CAS No: 84-69-5)

10000 mg/kg = 1 %

Remark:

The item(s) I130, I142, I150, I161, I145 were provided by client dated on Jun 22 and Jun 30, 2022

3.Photo of the Submitted Sample



*EST Technology authenticate the photo on original report only
*** End of Report ****