



Enjoy Life

Test Report

No. A190606001001

Date: Aug 02, 2019

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SHENZHEN INTERTHINGS TECHNOLOGY CO.,LTD
305, T3 BUILDING, SILICON VALLEY COMPOUND, LONGHUA DISTRICT, SHENZHEN, CHINA.

Sample Description:	IP CAMERA	Buyer:	/
Color:	/	Factory:	YINGHE DIGITAL TECHNOLOGY (GUANGDONG) CO.,LTD.
Order No.:	/	Exported to:	/
Style No.:	IPC128/ALT-285/SM01-OCB20	Product End Use:	/
Content:	/	Trademark:	ALTEC LANSING, LANBERG
Age Group:	/	Report Date:	Aug 02, 2019
Sample Receive Date:	Jun 06, 2019	Contact Information:	/
Test Period:	From Jun 06, 2019 to Aug 01, 2019		

SUMMARY OF TEST RESULTS

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

Signed for and on behalf of
Anrray Test Co., Ltd.

Tony Tang Manager, Chemical Lab



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Photo of the Submitted Sample



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Test Item Description and Photo List

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
001		Black coated white plastic	Case,camera	1
002		Silvery metal	Gasket,camera	1
003		Black plastic	Cover,camera	1
004		Grey plastic	Adhesive,camera	1
005		Silver coated white plastic	Cap,camera	1
006		Black coated white plastic	Holder,screen,camera	1
007		Black printed transparent glass	Screen,camera	1
008		Grey soft plastic	Washer,screen,camera	1
009		Transparent plastic	Cap,LED,camera	1
010		Silvery metal	Screw,PCB,camera	1
011		Beige glue	Glue,mic,camera	1
012		Black soft plastic	Sleeve,mic,camera	1
013		White fabric with adhesive	Net fabric,mic,camera	1
014		Silvery metal	Case,mic,camera	1
015		White plastic	Sleeve,mic,camera	1

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
016		Silvery metal	Tube,mic,camera	1
017		Silvery metal	Gasket,mic,camera	1
018		Silvery metal	Ring,mic,camera	1
019		Black body	Audion,PCB,mic	1
020		White body	Capacitor,PCB,mic	1
021		Green printed brown plastic with coppery metal	PCB,mic	1
022		White soft plastic	Wire jacket,PCB,mic	1
023		Red soft plastic	Wire jacket,PCB,mic	1
024		Silvery metal	Wire,PCB,mic	1
025		Silvery metal	Fastener,mic	1
026		White plastic	Socket,mic	1
027		Transparent plastic	LED(big),PCB	1
028		Black body	Audion,PCB	1
029	Brown body	Capacitor,PCB	1	
030	Black body	Capacitor,PCB	1	

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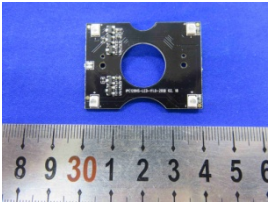
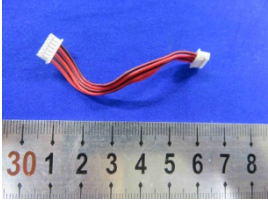
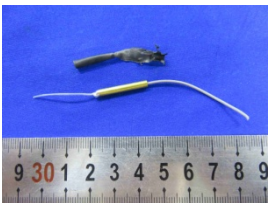
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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
031		Grey body	Capacitor,PCB	1
032		Transparent plastic	LED(small),PCB	1
033		White printed black body	Resistor,PCB	1
034		Black printed beige plastic with coppery metal	PCB	1
035		White plastic	Socket,PCB	1
036		Silvery metal	Fastener,PCB	1
037		Black printed red soft plastic	Wire jacket,PCB	1
038		Black coated red soft plastic	Wire jacket,PCB	1
039		Silvery metal	Wire,PCB	1
040		Black soft plastic	Sleeve,PCB	1
041		Grey soft plastic	Wire jacket,PCB	1
042		Silvery metal	Wire,PCB	1
043		Brass metal	Tube,PCB	1
044		Silvery metal	Solder,PCB	1
045		Transparent soft plastic	Wire jacket,PCB	1

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046		Black coated silvery metal	Screw,PCB	1
047		White plastic	Holder,battery,camera	1
048		Silvery metal	Contact plate,lens	1
049		Coppery metal	Coil,lens	1
050		Green printed brown plastic with coppery metal	PCB,lens	1
051		Red soft plastic	Wire jacket,lens	1
052		Black soft plastic	Wire jacket,lens	1
053	Silvery metal	Wire,lens	1	
054		Black plastic	Frame,lens	1
055		Transparent glass	Lens,camera	1
056		Black magnet	Magnet,lens	1
057		Black plastic	Holder,magnet,lens	1

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
058		Black plastic	Holder,lens	1
059		Black coated silvery metal	Nut,lens	1
060		Black coated silvery metal	Tube,lens	1
061		Black printed transparent glass	Glass,lens	1
062		Transparent glass	Lens(big),camera	1
063		Transparent glass	Lens(small),lens	1
064		Black coated silvery metal	Gasket,lens	1
065		Black coated silvery metal	Stopper,lens	1
066	Black plastic	Cap,crystal,camera	1	
067		Silvery metal	Cap,crystal,PCB	1
068		Silvery metal	Base,crystal,PCB	1



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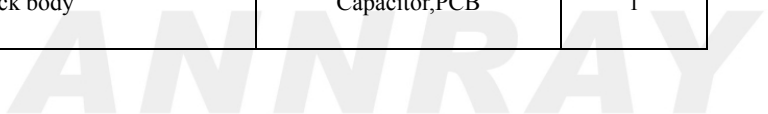
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069		Silvery metal	Pin,crystal,PCB	1
070		Pewter glass	Glass,crystal,PCB	1
071		White plastic	Sleeve,pin,crystal,PCB	1
072		Black body	IC(small),PCB	1
073		Brown body	Capacitor(big),PCB	1
074		Brown body	Capacitor(small),PCB	1
075		Silvery metal	Case,switch,PCB	1
076		Black plastic	Switch,PCB	1
077		Silvery metal	Contact plate,switch	1
078		Brown plastic	Washer,switch,PCB	1
079		Silvery metal	Pin,switch,PCB	1
080		Black body	IC(big),PCB	1
081		Black body	Resistor,PCB	1
082		Black body	Capacitor,PCB	1



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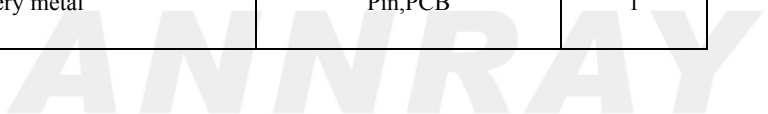
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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
083		Black body	Inductor,PCB	1
084		White body	Capacitor,PCB	1
085		Transparent glass	IC,PCB	1
086		Black body	Audion,PCB	1
087		White printed black body	Resistor,PCB	1
088		Silvery metal	SD,socket,PCB	1
089		Black plastic	SD,socket,PCB	1
090		Silvery metal	Spring,socket,PCB	1
091		Silvery metal	Pin,SD,socket,PCB	1
092		Ivory plastic	Socket,PCB	1
093		Silvery metal	Holder,socket,PCB	1
094		Silvery metal	Pin,socket,PCB	1
095		Blue plastic	LED,PCB	1
096	Silvery metal	Pin,PCB	1	



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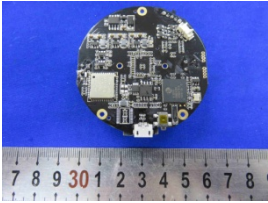
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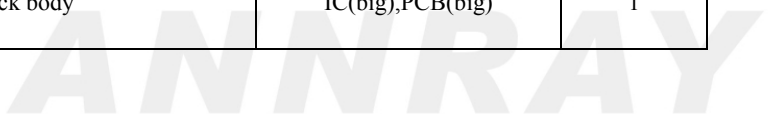
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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
097		Black body	IC(big rectangle),PCB(big)	1
098		Brown body	Capacitor,PCB(big)	1
099		Black body	Diode,PCB(big)	1
100		Silvery metal	Case,PCB(small)	1
101		Black body	Capacitor,PCB(small)	1
102		Brown body	Capacitor(big),PCB(small)	1
103		Brown body	Capacitor(small),PCB(small)	1
104		White body	Capacitor,PCB(small)	1
105		Golden metal	Crystal,PCB(small)	1
106		Black body	IC,PCB(small)	1
107		White printed black body	Resistor,PCB(big)	1
108		Black body	IC(small),PCB(big)	1
109		Black body	IC(middle),PCB(big)	1
110	Black body	IC(big),PCB(big)	1	



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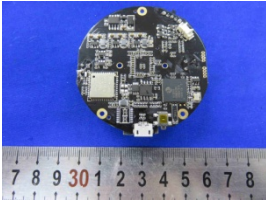
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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
111		Black body	IC(small rectangle),PCB(big)	1
112		Golden metal	Crystal,PCB(big)	1
113		Black body	Diode,PCB	1
114		Silvery metal	Socket,PCB(big)	1
115		Black plastic	Socket,PCB(big)	1
116		Silvery metal	Pin,socket,PCB(big)	1
117		Silvery metal	Case,switch,PCB	1
118		Black plastic	Switch,PCB	1
119		Transparent brown plastic	Film,switch,PCB	1
120		Silvery metal	Gasket,switch,PCB	1
121		Black plastic	Base,switch,PCB	1
122		Silvery metal	Contact plate,switch,PCB	1
123		Black printed beige plastic with coppery metal	PCB(small)	
124		Blue/black printed beige plastic with coppery metal	PCB(big)	1

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
125		Silvery metal	Cap,holder,camera	1
126		Silvery magnet	Magnet,holder,camera	1
127		Grey soft plastic	Cushion,holder,camera	1
128		Black soft plastic	Binding,cable	1
129		Silvery metal		1
130		Black soft plastic	USB,cable	1
131		Silvery metal	USB,cable	1
132		White plastic	USB,cable	1
133		Golden/silvery metal	Pin,USB,cable	1
134		White printed black soft plastic	Wire jacket(outer),cable	1
135		Red soft plastic	Wire jacket(inner),cable	1
136		Green soft plastic	Wire jacket(inner),cable	1
137		White soft plastic	Wire jacket(inner),cable	1
138		Black soft plastic	Wire jacket(inner),cable	1
139		Coppery metal	Wire,cable	1

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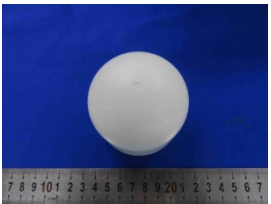

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
140		Black soft plastic	DC plug,cable	1
141		Silvery metal	DC plug,cable	1
142		Grey plastic	DC plug,cable	1
143		Silvery metal	Pin,DC plug,cable	1
144		Light golden metal	Pin,DC plug,cable	1
145		White plastic	Case,camera	2
146		White soft plastic	Binding,cable	2
147		Silvery metal		2
148		White soft plastic	USB,cable	2
149		Silvery metal	USB,cable	2
150		White plastic	USB,cable	2
151		White soft plastic	USB(inner),cable	2
152		Golden/silvery metal	Pin,USB,cable	2

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
153		White soft plastic	DC plug,cable	2
154		Silvery metal	DC plug,cable	2
155		Grey plastic	DC plug,cable	2
156		Silvery metal	Pin,DC plug,cable	2
157		Light golden metal	Pin,DC plug,cable	2
158		White soft plastic	Wire jacket(outer),cable	2

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TEST RESULT

European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

Test Method : See Appendix.

See Analytes and their corresponding Maximum Allowable Limit in Appendix

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	mg/kg	-
Test Item(s)	-	-	-	-	-	-	-
001	ND	ND	ND	ND	ND	ND	PASS
002	ND	ND	ND	ND	NA	NA	PASS
003	ND	ND	ND	ND	ND	ND	PASS
004	ND	ND	ND	ND	ND	ND	PASS
005	ND	ND	ND	ND	ND	ND	PASS
006	ND	ND	ND	ND	ND	ND	PASS
007	ND	ND	ND	ND	ND	ND	PASS
008	ND	ND	ND	ND	ND	ND	PASS
009	ND	ND	ND	ND	ND	ND	PASS
010	ND	ND*	ND	ND	NA	NA	PASS
011	ND	ND	ND	ND	ND	ND	PASS
012	ND	ND	ND	ND	ND	ND	PASS
013	ND	ND	ND	ND*	ND	ND	PASS
014	ND	ND	ND	Negative*	NA	NA	PASS
015	ND	ND	ND	ND	ND	ND	PASS
016	ND	ND	ND	Negative*	NA	NA	PASS
017	ND	ND	ND	ND	NA	NA	PASS
018	ND	ND	ND	Negative*	NA	NA	PASS
019	ND	ND	ND	ND	ND	ND	PASS
020	ND	ND	ND	ND	ND	ND	PASS
021	ND	ND	ND	ND	ND*	ND*	PASS
022	ND	ND	ND	ND*	ND	ND	PASS
023	ND	ND	ND	ND*	ND	ND	PASS



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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	mg/kg	-
Test Item(s)	-	-	-	-	-	-	-
024	ND	ND	ND	ND	NA	NA	PASS
025	ND	ND	ND	ND	NA	NA	PASS
026	ND	ND	ND	ND	ND	ND	PASS
027	ND	ND	ND	ND	ND	ND	PASS
028	ND	ND	ND	ND	ND	ND	PASS
029	ND	ND	ND	ND	ND	ND	PASS
030	ND	ND	ND	ND	ND	ND	PASS
031	ND	ND	ND	ND	ND	ND	PASS
032	ND	ND	ND	ND	ND	ND	PASS
033	ND	ND	ND	ND	ND	ND	PASS
034	ND	ND	ND	ND	ND*	ND*	PASS
035	ND	ND	ND	ND	ND	ND	PASS
036	ND	ND	ND	ND	NA	NA	PASS
037	ND	ND	ND	ND*	ND	ND	PASS
038	ND	ND	ND	ND	ND	ND	PASS
039	ND	ND	ND	ND	NA	NA	PASS
040	ND	ND	ND	ND	ND	ND	PASS
041	ND	ND	ND	ND	ND	ND	PASS
042	ND	ND	ND	ND	NA	NA	PASS
043	ND	ND	ND	ND	NA	NA	PASS
044	ND	ND	ND	ND	NA	NA	PASS
045	ND	ND	ND	ND*	ND	ND	PASS
046	ND	ND	ND	ND	NA	NA	PASS
047	ND	ND	ND	ND	ND	ND	PASS
048	ND	ND	ND	Negative*	NA	NA	PASS
049	ND	ND*	ND	ND	NA	NA	PASS
050	ND	ND	ND	ND	ND*	ND*	PASS
051	ND	ND	ND	ND	ND	ND	PASS
052	ND	ND	ND	ND*	ND	ND	PASS
053	ND	ND	ND	ND	NA	NA	PASS
054	ND	ND	ND	ND*	ND*	ND*	PASS
055	ND	ND	ND	ND	ND	ND	PASS

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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	mg/kg	-
Test Item(s)	-	-	-	-	-	-	-
056	ND	ND*	ND	ND	NA	NA	PASS
057	ND	ND	ND	ND*	ND	ND	PASS
058	ND	ND	ND	ND	ND	ND	PASS
059	ND	ND	ND	Negative*	NA	NA	PASS
060	38*	ND	ND	ND	NA	NA	PASS
061	ND	ND	ND	ND	ND	ND	PASS
062	ND	ND	ND	ND*	ND	ND	PASS
063	ND	ND	ND	ND	ND	ND	PASS
064	ND	ND	ND	ND	NA	NA	PASS
065	ND	ND	ND	Negative*	NA	NA	PASS
066	ND	ND	ND	ND	ND	ND	PASS
067	ND	ND*	ND	ND	NA	NA	PASS
068	ND	ND	ND	ND	NA	NA	PASS
069	ND	ND	ND	ND	NA	NA	PASS
070	31816\$	ND	ND	ND*	ND	ND	EXEMPTED
071	ND	ND	ND	ND*	ND	ND	PASS
072	ND	ND	ND	ND	ND	ND	PASS
073	ND	ND	ND	ND	ND	ND	PASS
074	ND	ND	ND	ND	ND	ND	PASS
075	ND	ND	ND	ND	NA	NA	PASS
076	ND	ND	ND	ND*	ND	ND	PASS
077	ND	ND*	ND	ND	NA	NA	PASS
078	ND	ND	ND	ND	ND	ND	PASS
079	ND	ND	ND	ND	NA	NA	PASS
080	ND	ND	ND	ND	ND	ND	PASS
081	ND	ND	ND	ND	ND	ND	PASS
082	ND	ND	ND	ND*	ND	ND	PASS
083	ND	ND	ND	ND	ND	ND	PASS
084	ND	ND	ND	ND	ND	ND	PASS
085	ND	ND	ND	ND	ND	ND	PASS
086	ND	ND	ND	ND	ND*	ND*	PASS
087	ND	ND	ND	ND	ND	ND	PASS

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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	mg/kg	-
Test Item(s)	-	-	-	-	-	-	-
088	ND	ND	ND	Negative*	NA	NA	PASS
089	ND	ND	ND	ND	ND	ND	PASS
090	ND	ND	ND	Negative*	NA	NA	PASS
091	ND	ND	ND	ND	NA	NA	PASS
092	ND	ND	ND	ND*	ND	ND	PASS
093	ND	ND	ND	ND	NA	NA	PASS
094	ND	ND	ND	ND	NA	NA	PASS
095	ND	ND	ND	ND	ND*	ND*	PASS
096	ND	ND	ND	ND	NA	NA	PASS
097	ND	ND	ND	ND	ND	ND	PASS
098	ND	ND	ND	ND	ND	ND	PASS
099	ND	ND	ND	ND	ND*	ND*	PASS
100	ND	ND	ND	ND	NA	NA	PASS
101	ND	ND	ND	ND	ND	ND	PASS
102	ND	ND	ND	ND	ND	ND	PASS
103	ND	ND	ND	ND	ND	ND	PASS
104	ND	ND	ND	ND	ND	ND	PASS
105	ND	ND*	ND	ND	NA	NA	PASS
106	ND	ND	ND	ND	ND	ND	PASS
107	ND	ND	ND	ND	ND	ND	PASS
108	ND	ND	ND	ND	ND	ND	PASS
109	ND	ND	ND	ND	ND	ND	PASS
110	ND	ND	ND	ND	ND	ND	PASS
111	ND	ND	ND	ND	ND	ND	PASS
112	ND	ND*	ND	ND	NA	NA	PASS
113	ND	ND	ND	ND	ND	ND	PASS
114	ND	ND	ND	Negative*	NA	NA	PASS
115	ND	ND	ND	ND	ND	ND	PASS
116	ND	ND	ND	ND	NA	NA	PASS
117	ND	ND	ND	Negative*	NA	NA	PASS
118	ND	ND	ND	ND	ND*	ND*	PASS
119	ND	ND	ND	ND	ND	ND	PASS

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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	mg/kg	-
Test Item(s)	-	-	-	-	-	-	-
120	ND	ND	ND	Negative*	NA	NA	PASS
121	ND	ND	ND	ND	ND	ND	PASS
122	ND	ND	ND	ND	NA	NA	PASS
123	ND	ND	ND	ND	ND*	ND*	PASS
124	ND	ND	ND	ND	ND*	ND*	PASS
125	ND	ND	ND	ND	NA	NA	PASS
126	ND	ND	ND	ND	NA	NA	PASS
127	ND	ND	ND	ND	ND	ND	PASS
128	ND	ND	ND	ND	ND	ND	PASS
129	ND	ND	ND	ND	NA	NA	PASS
130 ☆	ND	ND	ND	ND	ND	ND	PASS
131	ND	ND	ND	ND	NA	NA	PASS
132	ND	ND	ND	ND	ND	ND	PASS
133	ND	ND	ND	ND	NA	NA	PASS
134	ND	ND	ND	ND	ND	ND	PASS
135	ND	ND	ND	ND	ND	ND	PASS
136	ND	ND	ND	ND	ND	ND	PASS
137	ND	ND	ND	ND	ND	ND	PASS
138	ND	ND	ND	ND	ND	ND	PASS
139	ND	ND	ND	ND	NA	NA	PASS
140	ND	ND	ND	ND	ND	ND	PASS
141	ND	ND	ND	Negative*	NA	NA	PASS
142	ND	ND	ND	ND*	ND	ND	PASS
143	ND	ND	ND	Negative*	NA	NA	PASS
144	ND	ND	ND	ND	NA	NA	PASS
145	ND	ND	ND	ND	ND	ND	PASS
146	ND	ND	ND	ND	ND	ND	PASS
147	ND	ND	ND	ND	NA	NA	PASS
148	ND	ND	ND	ND*	ND	ND	PASS
149	ND	ND	ND	ND	NA	NA	PASS
150	ND	ND	ND	ND	ND	ND	PASS
151	ND	ND	ND	ND*	ND	ND	PASS

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APPENDIX

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

No.	Name of Analytes	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]	1000
2	Cadmium (Cd)	50	50	50	10 ^[b]	100
3	Mercury (Hg)	100	200	200	10 ^[c]	1000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3 ^[g] / 10 ^[d] See ^[e, i]	1000 / 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 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 ^[f]	Sum 1000

XRF screening limits for different materials:

Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
Metal	P≤70<X<130≤F	P≤700<X	P≤700<X<1300≤F	P≤700<X<1300≤F	N.A.
Polymers	P≤70<X<130≤F	P≤700<X	P≤700<X<1300≤F	P≤700<X<1300≤F	P≤300<X
Composite material	P≤50<X<150≤F	P≤500<X	P≤500<X<1500≤F	P≤500<X<1500≤F	P≤250<X

P=Pass; F=Fail; X=Inconclusive result

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List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [for European Council Directive 2011/65/EU] :	
	NA = Not applicable
[a]	Test method with reference to IEC 62321-3-1:2013.
[b]	Test method with reference to IEC 62321-5:2013.
[c]	Test method with reference to IEC 62321-4:2013.
[d]	Polymers and Electronic-Test method with reference to European standard IEC 62321-7-2:2017.
[e]	Metal-Test method with reference to European standard IEC 62321-7-1:2015. ^[h]
[f]	Test method with reference to European standard IEC 62321-6:2015.
[g]	Leather-Test method International standard ISO 17075-1:2017.
[h]	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. 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 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 Council Directive 2011/65/EU, Article 4(1).
[i]	

Testing Approach [Compliance Test for European 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)



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RESULTS:

Phthalates (DBP, BBP, 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 Amendments up to EU No. 2015/863 Annex II

Test Method : IEC 62321-8:2017, analyzed by Gas Chromatograph Mass Spectrometer.

Analyte	CAS No.	Result(% ,w/w)			Requirement (% ,w/w)
		Test Item(s)			
		001+003+004	005+006+009	011+015+026	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Conclusion	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(% ,w/w)			Requirement (% ,w/w)
		Test Item(s)			
		027+032+035	047+054+057	058+066+071	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Conclusion	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(% ,w/w)			Requirement (% ,w/w)
		Test Item(s)			
		076+078+089	092+095+115	118+119+121	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Conclusion	-	PASS	PASS	PASS	-



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RESULTS:

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		132+142+145	150+155	008+012+022	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	ND	0.011	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Conclusion	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		023+037+038	040+041+045	051+052+127	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.005	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	0.024	ND	ND	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Conclusion	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		128	134+135+136	137+138+140	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	0.046	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Conclusion	-	PASS	PASS	PASS	-



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RESULTS:

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		146+148	151+153+158	007+055+061	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Conclusion	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		062+063	070+085	013	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Conclusion	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		019+020+028	029+030+031	033+072+073	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Conclusion	-	PASS	PASS	PASS	-



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RESULTS:

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		074+080+081	082+083+084	086+087+097	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Conclusion	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		098+099+101	102+103+104	106+107+108	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Conclusion	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		109+111+113	021+034+050	123+124	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Conclusion	-	PASS	PASS	PASS	-



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RESULTS:

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		130	-	-	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.078	-	-	0.1
Dibutyl phthalate (DBP)	84-74-2	0.008	-	-	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	-	-	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	-	-	0.1
Conclusion	-	PASS	-	-	-

Note / Key : ND = Not detected(<Detection Limit) Detection Limit : 0.005% 10 000 mg/kg = 1 %
 mg/kg = milligram per kilogram = ppm = part per million % = percent

Remark: Composite testing(s) was/were specified by client.
 Tested part(s) was/were specified by client.
 ☆The test item(130) was/were raw materials and provided by client dated on Jul 29, 2019.
 Although the Test Item(s) complies (comply) with the above requirement, it is possible that, if tested separately, one or more of the constituents of this (these) Test Item(s) may not comply with this requirement.

*** End of Report ***



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