



# Test Report

No. A220425056002R1

Date: Jun 24, 2022

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SHENZHEN XMACAW TECHNOLOGY CO.,LTD  
4C10, 4/F, INDUSTRY-UNIVERSITY-RESEARCH BLDG., NANJING UNIVERSITY, NO.6 YUEXING 3RD ROAD, HIGH-TECH ZONE COMMUNITY,YUEHAI STREET, NANSHAN, SHENZHEN

Sample Description/Name: PROJECTOR  
 Serial Model No.: MAIN TEST: A1  
 SERIES: AirH6,V1,T051,P1, P2, P3, P5, P6, P8, P9, N1, N2, N3, N5, N6,N8, N9, A2, A3, A5, A6, A8, A9, D1, D2, D3, D5, D6, D8, D9, V1, V2, V3,V5, V6, V7, V8, V9,M18, M16, M17, M19, M20, M21, M22, M23, M24, M25,M26, M27, M28, H1, H2, H3, H5, H8, SN1, SN2, SN3, SN5, SN6, P1, P2, P3,P5, P6, P7, P8, P9, Y3, O1, V53, V52, SAIL 1 , T4 , G1 , KP1 , KP1 PRO , KP1 PLUS , Meta-P2

Color: / Buyer: /  
 Order No. : / Supplier: /  
 Style No. : / Exported to: /  
 Content: / Product End Use: /  
 Age: / Contact Information: /  
 Sample Receive Date: Apr 25, 2022 Report Date: Jun 24, 2022  
 Test Period: From Apr 25, 2022 to Apr 29, 2022

### 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  
Annray Testing And  
Certification(Guangdong) Co., Ltd.

Ocean Chen Supervisor, Chemical Lab



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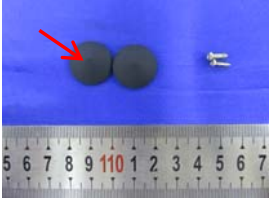
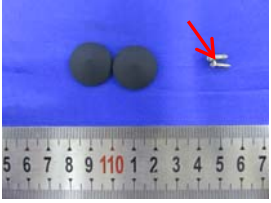




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Test Item Description and Photo List

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
001		Black soft plastic with adhesive	Washer,projector	-
002		Silvery metal	Screw,projector	-
003		Gunmetal metal	Cover,projector	-
004		Black fabric with adhesive	Cover(inner),projector	-
005		Black plastic	Case,projector	-
006		Black coated transparent plastic with adhesive	Sticker(hole),projector	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
007		Silvery metal	Screw,PCB,projector	-
008		Beige plastic	Socket,PCB,projector	-
009		Silvery metal	Pin (socket),PCB,projector	-
010		Silvery metal	Holder(socket),PCB, projector	-
011		Black plastic	Button,K1,PCB,projector	-
012		Silvery metal	Case,K1,PCB,projector	-
013		Silvery metal	Gasket,K1,PCB,projector	-
014		Silvery metal	Pin,K1,PCB,projector	-
015		Yellow body	LED1,PCB,projector	-



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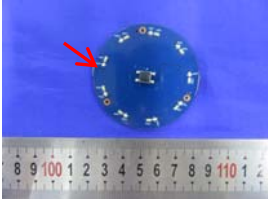
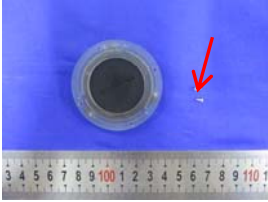
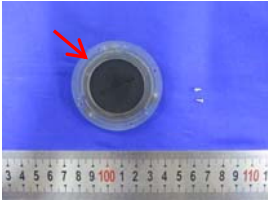
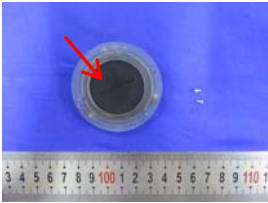


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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
016		Transparent body	LED2,PCB,projector	-
017		Silvery metal	Screw,button,projector	-
018		Translucent plastic	Frame(button),projector	-
019		Black plastic	Button,projector	-
020		Black fabric with adhesive	Sticker,projector	-
021		White printed black plastic with adhesive	Sticker,projector	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
022		Grey foam with adhesive	Cover(wire jacket), projector	-
023		Black/green printed white paper with adhesive	Label,motor,projector	-
024		Beige plastic	Cap,motor,projector	-
025		Translucent natural plastic	Frame,motor,projector	-
026		Silvery metal	Pin(PCB),motor,projector	-
027		Green printed beige plastic with coppery metal	PCB,motor,projector	-
028		White printed black soft plastic	Sleeve,(Wire jacket), motor,projector	-
029		Black soft plastic	Wire jacket,motor,projector	-
030		Red soft plastic	Wire jacket,motor,projector	-
031		Yellow soft plastic	Wire jacket,motor,projector	-
032		Brown soft plastic	Wire jacket,motor,projector	-
033	Blue soft plastic	Wire jacket,motor,projector	-	
034	Silvery metal	Wire,motor,projector	-	

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
035		Silvery metal	Fastener,cable,	-
036		White plastic	Socket,PCB	-
037		Silvery metal	Case,motor,projector	-
038		White plastic	Gear,motor,projector	-
039		Silvery metal	Shaft(thick), motor,projector	-
040		Silvery metal	Shaft(thin), motor,projector	-
041		Black magnet	Magnet,motor,projector	-
042		Silvery metal	Case,motor,projector	-
043		Coppery metal	Coil,motor,projector	-
044			Grey soft plastic	Wire jacket,PCB,projector
045	Golden metal		Fastener,cable,PCB	-
046	Green soft plastic		Wire jacket,PCB,projector	-
047	Black printed grey soft plastic		Wire jacket(outer), PCB,projector	-
048	White soft plastic		Wire jacket,PCB,projector	-
049	Silvery metal		Wire,PCB,projector	-
050	Grey body		F823,PCB,projector	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
051		Brown body	8C41,PCB,projector	-
052		Black printed dark grey body	LP7,PCB,projector	-
053		Black body	1Q19,PCB,projector	-
054		Black printed dark grey body	1L2,PCB,projector	-
055		Brown printed black body	U78,PCB,projector	-
056		White printed black body	RA65,PCB,projector	-
057		Brown printed black body	U1,PCB,projector	-
058		Black body	1Q3,PCB,projector	-
059		Black body	L13,PCB,projector	-
060		Black body	5D5,PCB,projector	-
061		Silvery metal	Case(Y1),PCB,projector	-
062		Grey body	Inner(Y1),PCB,projector	-
063		Silvery metal	Cover(3U2),PCB,projector	-
064		Green printed brown plastic with coppery metal	PCB	-
065		Black body	U70,PCB,projector	-
066		Black body	U17,PCB,projector	-
067		Brown printed black body	8U1,PCB,projector	-
068		Brown printed black body	8T1,PCB,projector	-
069		Silvery metal	Pin(8T1),PCB,projector	-
070		Black coated silvery metal	Case,C1,PCB,projector	-
071		Black soft plastic	Stopper(C1),PCB,projector	-
072		Brown body(filler,C12,PCB)	Filler(C1),PCB,projector	-
073		Silvery metal	Pin(C1),PCB,projector	-
074		Black plastic	Base(C1),PCB,projector	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)	
075		Black body	IR1,PCB,projector	-	
076		Black plastic	Case(J1),PCB,projector	-	
077		Silvery metal	Pin(J1),PCB,projector	-	
078		Silvery metal	Case(J5),PCB,projector	-	
079		Grey body	Inner(J5),PCB,projector	-	
080		Silvery metal	Pin(J5),PCB,projector	-	
081		Silvery metal	Case(J7),PCB,projector	-	
082		White plastic	Inner(J7),PCB,projector	-	
083		Silvery metal	Pin(J7),PCB,projector	-	
084		Silvery metal	Case(J4),PCB,projector	-	
085		Black plastic	Inner(J4),PCB,projector	-	
086		Silvery metal	Pin(J4),PCB,projector	-	
087			Blue/white printed brown plastic with copper metal	PCB	-
088			Translucent brown plastic with copper metal	FPC	-
089	Black plastic		Frame,screen,PCB,projector	-	
090	Translucent grey plastic with adhesive		Polarizer,screen,projector	-	
091	Transparent grey glass		Glass,screen,PCB,projector	-	
092	Pewter glass		Glass,screen,PCB,projector	-	
093		Transparent glass	Lens,projector	-	



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
094		Transparent plastic	Lens,projector	-
095		Transparent glass	Mirror,projector	-
096		Brown printed black body	F1,PCB,projector	-
097		Black printed blue body	Mov1,PCB,projector	-
098		Transparent/yellow plastic	Wire jacket,coil,TL1, PCB,projector	-
099		Coppery metal	Coil,TL1, PCB,projector	-
100		Green body	TL1,PCB,projector	-
101		Grey printed black body	RH1,PCB,projector	-
102		Silvery metal	Pin,RH1,PCB,projector	-
103		Black printed yellow plastic	Case,CX1,PCB,projector	-
104		Yellow body	Filler,CX1,PCB,projector	-
105		Black plastic	Frame,TL2, PCB,projector	-
106		Coppery metal	Coil,TL2, PCB,projector	-
107		Silvery metal	Pin,TL2,PCB,projector	-
108		Brown printed black body	BD1,PCB,projector	-
109		Silvery metal	Pin,BD1,PCB,projector	-
110		Green printed white paper with adhesive	Label,E1,PCB,projector	-
111		White printed black plastic	Case,E1,PCB,projector	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
112		Silvery metal	Case,E1,PCB,projector	-
113		Black soft plastic	Stopper,E1,PCB,projector	-
114		Brown body	Filler,E1,PCB,projector	-
115		Silvery metal	Pin,E1,PCB,projector	-
116		Green body	C1,PCB,projector	-
117		White plastic	Socket,CON1,PCB,projector	-
118		Silvery metal	Pin,CON1,PCB,projector	-
119		Golden printed black plastic	Case,E2,PCB,projector	-
120		Silvery metal	Frame(S1),PCB,projector	-
121		Black body	Q1,PCB,projector	-
122		Grey body	Q1,PCB,projector	-
123		Silvery metal	Pin,Q1,PCB,projector	-
124		Silvery metal	Screw,Q1,PCB,projector	-
125		Brown printed black body	OPT1,PCB,projector	-
126		Silvery metal	Pin,OPT1,PCB,projector	-
127		Silvery metal	Pin,R1,PCB,projector	-
128		Golden printed green plastic	Case,E4,PCB,projector	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
129		Black printed yellow plastic with adhesive	Sticker,transformer, PCB,projector	-
130		Copper metal	Foil, transformer, PCB,projector	-
131		Dark grey body	Core,transformer PCB,projector	-
132		Black plastic	Frame,transformer PCB,projector	-
133		Copper metal	Coil(thick),transformer PCB,projector	-
134		Copper metal	Coil(thin),transformer PCB,projector	-
135		Translucent plastic	Sleeve(coil),transformer PCB,projector	-
136		Silvery metal	Pin,transformer PCB,projector	-
137		White body	C4,PCB,projector	-
138		Black body	D8,PCB,projector	-
139		Black body	U2,PCB,projector	-
140		Silvery metal	Pin,U2,PCB,projector	-
141		Black body	Q2,PCB,projector	-
142		Silvery metal	Pin,Q2,PCB,projector	-
143		Silver//black/red printed transparent plastic with adhesive	Label,fan,projector	-
144		Black foam with adhesive	Washer,fan,projector	-
145		Black plastic	Case, motor, fan,projector	-
146		Silvery metal	Gasket(gear),motor, fan,projector	-

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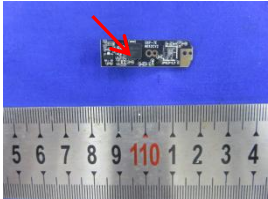
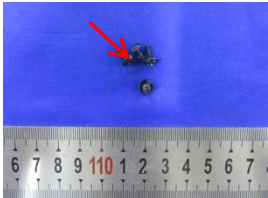
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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)	
147		Silvery metal	Case(gear),motor, fan,projector	-	
148		Silvery metal	Inner(gear),motor, fan,projector	-	
149		Brown plastic	Inner(gear),motor, fan,projector	-	
150		Silvery metal	Bead(gear),motor, fan,projector or	-	
151		Silvery metal	Spring,motor, fan,projector	-	
152		Gunmetal metal	Blade,motor, Air anion purifier	-	
153		Coppery metal	Coil,motor, fan,projector	-	
154		Silvery metal	Shaft,motor, fan,projector	-	
155		White plastic	Ring,motor, fan,projector	-	
156		Silvery metal	Holder, magnet, fan,projector	-	
157		Gunmetal soft magnet	Holder,motor, fan,projector	-	
158			Black printed brown plastic with coppery metal	PCB,projector	-
159			Black coated silvery metal	Screw,projector	-

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160		Silvery metal	Screw,projector	-
161		Grey soft plastic	Washer(screw),projector	-
162		Black plastic	Case,speaker,projector	-
163		Black soft plastic	Cover,speaker,projector	-
164		Silvery metal	Gasket,speaker,projector	-
165		Black paper	Cover,speaker,projector	-
166		Natural paper	Inner,speaker,projector	-
167		Black coated silvery metal	Frame,speaker,projector	-
168		Coppery metal	Wire,speaker,projector	-
169		White paperboard	Speaker,projector	-
170		Silvery metal with solder	Contact plate, speaker,projector	-
171		Silvery metal	Rivet,speaker,projector	-
172		Brass metal	Coil,speaker,projector	-
173		Brown plastic	Coil(inner),speaker, projector	-
174		Brown fabric	Speaker,projector	-
175		Gunmetal magnet	Magnet,speaker, projector	-
176		Silvery metal	Gasket,speaker, projector	-



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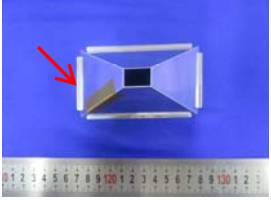
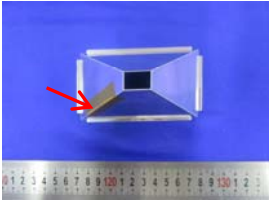
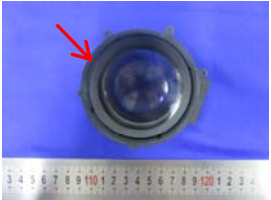


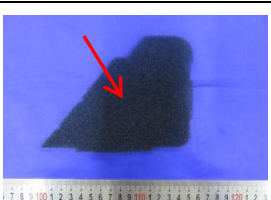
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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
177		Silvery metal	Frame, speaker, projector	-
178		Brown plastic with adhesive	Sticker(frame), speaker, projector	-
179		Grey coated beige plastic	Case, camera, projector	-
180		Beige plastic	Inner, camera, projector	-
181		Transparent glass	Camera, projector	-
182		Black foam	Foam, projector	-

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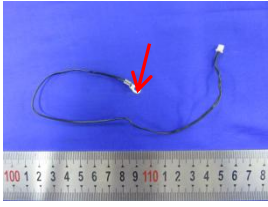
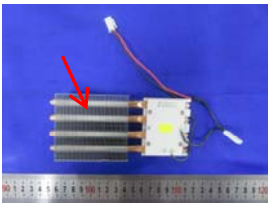
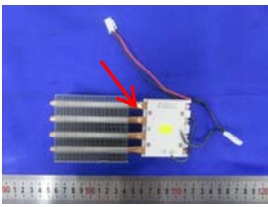
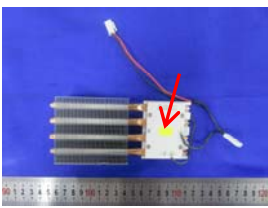
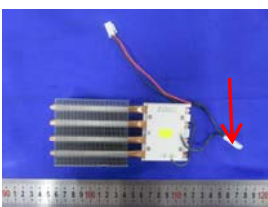
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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
183		Golden metal	Nut(base),projector	-
184		Silvery metal	Contact plate (Wire jacket),projector	-
185		Silvery metal	Frame,radiator,projector	-
186		Brass metal	Shaft,radiator,projector	-
187		Yellow/white soft plastic	Cover,Radiator,projector	-
188		Grey printed white plastic	Switch,radiator,projector	-



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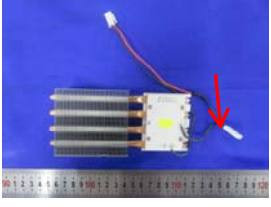
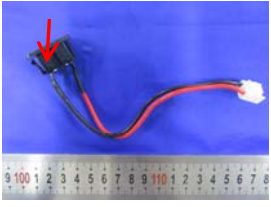
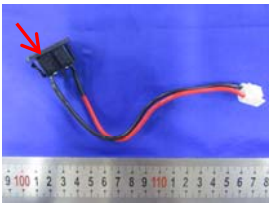
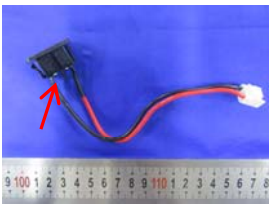
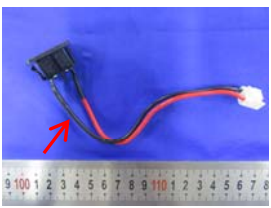
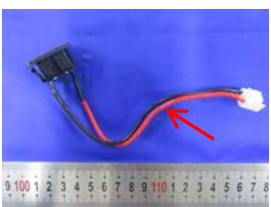
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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
189		Black body	Switch,radiator,projector	-
190		Black plastic	Case,AC plug,projector	-
191		Silvery metal	Pin,AC plug,projector	-
192		Silvery metal	Contact plate (Wire jacket),projector	-
193		Grey printed black soft plastic	Wire jacket, AC,plug,projector	-
194		Black printed red soft plastic	Wire jacket, AC,plug,projector	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
195		Silvery metal	Wire, PCB, AC,plug,projector	-

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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	NA	NA	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	NA	NA	PASS
008	ND	ND	ND	ND	ND	ND	PASS
009	ND	ND	ND	ND	NA	NA	PASS
010	ND	ND	ND	ND	NA	NA	PASS
011	ND	ND	ND	ND	ND	ND	PASS
012	ND	ND	ND	Negative*	NA	NA	PASS
013	ND	ND	ND	ND	NA	NA	PASS
014	ND	ND	ND	ND	NA	NA	PASS
015	ND	ND	ND	ND	ND*	ND*	PASS
016	ND	ND	ND	ND	ND	ND	PASS
017	ND	ND	ND	ND	NA	NA	PASS
018	ND	ND	ND	ND	ND	ND	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

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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)	-	-	-	-	-	-	-
023	ND	ND	ND	ND	ND	ND	PASS
024	ND	ND	ND	ND	ND*	ND*	PASS
025	ND	ND	ND	ND	ND*	ND*	PASS
026	ND	ND	ND	ND	NA	NA	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	NA	NA	PASS
035	ND	ND	ND	ND	NA	NA	PASS
036	ND	ND	ND	ND	ND	ND	PASS
037	ND	ND	ND	ND	NA	NA	PASS
038	ND	ND	ND	ND	ND	ND	PASS
039	ND	ND	ND	ND	NA	NA	PASS
040	ND	ND	ND	Negative*	NA	NA	PASS
041	ND	ND	ND	ND	ND	ND	PASS
042	ND	ND	ND	Negative*	NA	NA	PASS
043	ND	ND	ND	ND	NA	NA	PASS
044	ND	ND	ND	ND	ND	ND	PASS
045	ND	ND	ND	ND	NA	NA	PASS
046	ND	ND	ND	ND	ND	ND	PASS
047	ND	ND	ND	ND	ND	ND	PASS
048	ND	ND	ND	ND	ND	ND	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	ND	ND	PASS
054	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)	-	-	-	-	-	-	-
055	ND	ND	ND	ND	ND	ND	PASS
056	ND	ND	ND	ND	ND	ND	PASS
057	ND	ND	ND	ND	ND	ND	PASS
058	ND	ND	ND	ND	ND	ND	PASS
059	ND	ND	ND	ND	ND	ND	PASS
060	ND	ND	ND	ND	ND	ND	PASS
061	ND	ND	ND	ND	NA	NA	PASS
062	ND	ND	ND	ND	ND	ND	PASS
063	ND	ND	ND	ND	NA	NA	PASS
064	ND	ND	ND	ND	ND*	ND*	PASS
065	ND	ND	ND	ND	ND	ND	PASS
066	ND	ND	ND	ND	ND	ND	PASS
067	ND	ND	ND	ND	ND	ND	PASS
068	ND	ND	ND	ND	ND	ND	PASS
069	ND	ND	ND	ND	NA	NA	PASS
070	ND	ND	ND	ND	NA	NA	PASS
071	ND	ND	ND	ND	ND	ND	PASS
072	ND	ND	ND	ND	ND	ND	PASS
073	ND	ND	ND	ND	NA	NA	PASS
074	ND	ND	ND	ND	ND*	ND*	PASS
075	ND	ND	ND	ND	ND	ND	PASS
076	ND	ND	ND	ND	ND	ND	PASS
077	ND	ND	ND	ND	NA	NA	PASS
078	ND	ND	ND	ND	NA	NA	PASS
079	ND	ND	ND	ND	ND	ND	PASS
080	ND	ND	ND	ND	NA	NA	PASS
081	ND	ND	ND	ND	NA	NA	PASS
082	ND	ND	ND	ND	ND	ND	PASS
083	ND	ND	ND	ND	NA	NA	PASS
084	ND	ND	ND	ND	NA	NA	PASS
085	ND	ND	ND	ND	ND*	ND*	PASS
086	ND	ND	ND	ND	NA	NA	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)	-	-	-	-	-	-	-
087	ND	ND	ND	ND	ND*	ND*	PASS
088	ND	ND	ND	ND	ND	ND	PASS
089	ND	ND	ND	ND	ND	ND	PASS
090	ND	ND	ND	ND	ND	ND	PASS
091	ND	ND	ND	ND	ND	ND	PASS
092	ND	ND	ND	ND	ND	ND	PASS
093	ND	ND	ND	ND	ND	ND	PASS
094	ND	ND	ND	ND	ND	ND	PASS
095	ND	ND	ND	ND	ND	ND	PASS
096	ND	ND	ND	ND	ND	ND	PASS
097	ND	ND	ND	ND	ND	ND	PASS
098	ND	ND	ND	ND	ND	ND	PASS
099	ND	ND	ND	ND	NA	NA	PASS
100	ND	ND	ND	ND	ND	ND	PASS
101	ND*	ND	ND	ND	ND	ND	PASS
102	ND	ND	ND	ND	NA	NA	PASS
103	ND	ND	ND	ND	ND*	ND*	PASS
104	ND	ND	ND	ND	ND	ND	PASS
105	ND	ND	ND	ND	ND	ND	PASS
106	ND	ND	ND	ND	NA	NA	PASS
107	ND	ND	ND	ND	NA	NA	PASS
108	ND*	ND	ND	ND	ND*	ND*	PASS
109	ND	ND	ND	ND	NA	NA	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	ND	ND	ND	PASS
115	ND	ND	ND	ND	NA	NA	PASS
116	ND	ND	ND	ND*	ND	ND	PASS
117	ND	ND	ND	ND	ND	ND	PASS
118	ND	ND	ND	ND	NA	NA	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)	-	-	-	-	-	-	-
119	ND	ND	ND	ND	ND	ND	PASS
120	ND	ND	ND	ND	NA	NA	PASS
121	ND	ND	ND	ND	ND	ND	PASS
122	ND	ND	ND	ND	ND	ND	PASS
123	ND	ND	ND	ND	NA	NA	PASS
124	ND	ND	ND	ND	NA	NA	PASS
125	ND	ND	ND	ND	ND*	ND*	PASS
126	ND	ND	ND	ND	NA	NA	PASS
127	ND	ND	ND	ND	NA	NA	PASS
128	ND	ND	ND	ND	ND	ND	PASS
129	ND	ND	ND	ND	ND	ND	PASS
130	ND	ND	ND	ND	NA	NA	PASS
131	ND	ND	ND	ND	ND	ND	PASS
132	ND	ND	ND	ND	ND	ND	PASS
133	ND	ND	ND	ND	NA	NA	PASS
134	ND	ND	ND	ND	NA	NA	PASS
135	ND	ND	ND	ND	ND	ND	PASS
136	ND	ND	ND	ND	NA	NA	PASS
137	ND	ND	ND	ND	ND	ND	PASS
138	ND	ND	ND	ND	ND	ND	PASS
139	ND	ND	ND	ND	ND	ND	PASS
140	ND	ND	ND	ND	NA	NA	PASS
141	ND	ND	ND	ND	ND	ND	PASS
142	ND	ND	ND	ND	NA	NA	PASS
143	ND	ND	ND	ND	ND	ND	PASS
144	ND	ND	ND	ND	ND	ND	PASS
145	ND	ND	ND	ND	ND*	ND*	PASS
146	ND	ND	ND	Negative*	NA	NA	PASS
147	ND	ND	ND	Negative*	NA	NA	PASS
148	ND	ND	ND	Negative*	NA	NA	PASS
149	ND	ND	ND	ND	ND	ND	PASS
150	ND	ND	ND	Negative*	NA	NA	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)	-	-	-	-	-	-	-
151	ND	ND	ND	ND	NA	NA	PASS
152	ND	ND	ND	ND	NA	NA	PASS
153	ND	ND	ND	ND	NA	NA	PASS
154	ND	ND	ND	Negative*	NA	NA	PASS
155	ND	ND	ND	ND	ND	ND	PASS
156	ND	ND	ND	ND	NA	NA	PASS
157	ND	ND	ND	ND	ND	ND	PASS
158	ND	ND	ND	ND	ND*	ND*	PASS
159	ND	ND	ND	ND	NA	NA	PASS
160	ND	ND	ND	ND	NA	NA	PASS
161	ND	ND	ND	ND	ND	ND	PASS
162	ND	ND	ND	ND	ND	ND	PASS
163	ND	ND	ND	ND	ND	ND	PASS
164	ND	ND	ND	ND	NA	NA	PASS
165	ND	ND	ND	ND	ND	ND	PASS
166	ND	ND	ND	ND	ND	ND	PASS
167	ND	ND	ND	ND	NA	NA	PASS
168	ND	ND	ND	ND	NA	NA	PASS
169	ND	ND	ND	ND	ND	ND	PASS
170	ND	ND	ND	ND	ND	ND	PASS
171	ND	ND	ND	ND	NA	NA	PASS
172	ND	ND	ND	ND	NA	NA	PASS
173	ND	ND	ND	ND	ND	ND	PASS
174	ND	ND	ND	ND	ND	ND	PASS
175	ND	ND	ND	ND	ND	ND	PASS
176	ND	ND	ND	Negative*	NA	NA	PASS
177	ND	ND	ND	ND	NA	NA	PASS
178	ND	ND	ND	ND	ND	ND	PASS
179	ND	ND	ND	ND	ND	ND	PASS
180	ND	ND	ND	ND	ND	ND	PASS
181	ND	ND	ND	ND	ND	ND	PASS
182	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) <sup>[a]</sup>			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10 <sup>[b]</sup>	1000
2	Cadmium (Cd)	50	50	50	10 <sup>[b]</sup>	100
3	Mercury (Hg)	100	200	200	10 <sup>[c]</sup>	1000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3 <sup>[g]</sup> / 10 <sup>[d]</sup> See [e, i]	1000 / Negative <sup>[i]</sup>
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 <sup>[f]</sup>	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 <sup>[f]</sup>	Sum 1000



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## APPENDIX

XRF screening limits for different materials:					
Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
<b>Metal</b>	P≤70<X<130≤F	P≤700<X	P≤700<X<1300≤F	P≤700<X<1300≤F	N.A.
<b>Polymers</b>	P≤70<X<130≤F	P≤700<X	P≤700<X<1300≤F	P≤700<X<1300≤F	P≤300<X
<b>Composite material</b>	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

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 GasChromatographMass Spectrometer.

Analyte	CAS No.	Result(% ,w/w)			Requirement (% ,w/w)
		Test Item(s)			
		001+004+005	006+008+011	018+019+021	
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
<b>Conclusion</b>	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(% ,w/w)			Requirement (% ,w/w)
		Test Item(s)			
		022+024+025	028+029+030	031+032+033	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	0.020	0.008	0.1
Benzylbutyl phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
<b>Conclusion</b>	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(% ,w/w)			Requirement (% ,w/w)
		Test Item(s)			
		036+038+044	046+047+048	071+074+076	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	84-74-2	ND	0.052	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
<b>Conclusion</b>	-	PASS	PASS	PASS	-



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#### RESULTS:

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		082+085+089	090+094+098	103+105+111	
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
<b>Conclusion</b>	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		113+117+119	128+129+132	135+143+144	
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
<b>Conclusion</b>	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(%w/w)			Requirement (%w/w)
		Test Item(s)			
		145+149+155	161+162+163	173+178+179	
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
<b>Conclusion</b>	-	PASS	PASS	PASS	-



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## RESULTS:

Analyte	CAS No.	Result(% ,w/w)			Requirement (% ,w/w)
		Test Item(s)			
		180+182+187	188+190	193+194	
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
<b>Conclusion</b>	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(% ,w/w)			Requirement (% ,w/w)
		Test Item(s)			
		020+174	027+064	087+185	
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
<b>Conclusion</b>	-	PASS	PASS	PASS	-

Analyte	CAS No.	Result(% ,w/w)			Requirement (% ,w/w)
		Test Item(s)			
		023+165+166	169+110	088	
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
<b>Conclusion</b>	-	PASS	PASS	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: Tested part(s) was/were specified by client.  
 Although the Test Item(s) (046+047+048) 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.

This report is to supersede Annraytest report No. A220425056002 dated on Jun 23, 2022.



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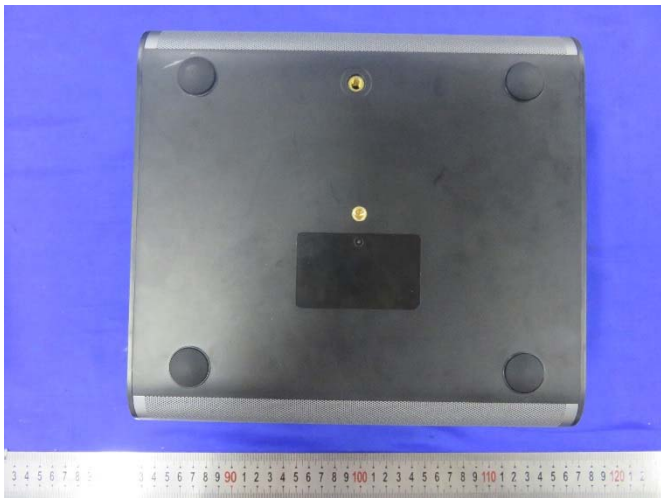
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**SAMPLE PHOTO:**



\*\*\* End of Report \*\*\*

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