

TEST REPORT

Report No.: SZ4210810-33715E

Date: September 16, 2021

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Astera LED Technology GmbH
Stahlgruberring 36, 81829 Munich, Germany

Report on the submitted samples said to be:

Sample Name: Pixel Brick
Style/Item No.: PB15
Sample Receiving Date: August 11, 2021
Lately Re-submit Date: September 08, 2021
Testing Period: August 11, 2021 - September 10, 2021
Result: **Pass**

Signed for and on behalf of

BACL



Checked by: _____
Candy Lin



Approved by: _____
Lance Lee

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Summary of Test Result:

TEST REQUEST

CONCLUSION

A RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates (DBP, BBP, DEHP, DIBP) content

A.1 XRF screening test

Pass

A.2 Wet Chemical Testing

A.2.1 Total Lead content

Pass

A.2.2 Chromium VI (CrVI) content

Pass

A.2.3 PBBs & PBDEs content

Pass

A.3 Phthalates (DBP, BBP, DEHP, DIBP) content

Pass

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Result:

Tested part(s):

- (1) Silvery solder(PCB, battery)
- (2) White printed green coating white fiber with coppery metal(PCB, battery)
- (3) Black body(IC "U7", PCB, battery)
- (4) Black body(IC "U6", PCB, battery)
- (5) Black body(IC "U5", PCB, battery)
- (6) Black body(fuse "FU1", PCB, battery)
- (7) White body(SMD capacitor "C1", PCB, battery)
- (8) Brown body(SMD capacitor "C15", PCB, battery)
- (9) Brown body(SMD capacitor "C22", PCB, battery)
- (10) Brown body(SMD capacitor "C12", PCB, battery)
- (11) Black body(SMD resistor "R24", PCB, battery)
- (12) Black body(SMD resistor "R57", PCB, battery)
- (13) Black body(SMD resistor "R40", PCB, battery)
- (14) Black body(SMD resistor "R13", PCB, battery)
- (15) Silvery metal(pin, triode "Q4", PCB, battery)
- (16) Black body(triode "Q4", PCB, battery)
- (17) Black body(SMD triode "Q15", PCB, battery)
- (18) Black body(SMD diode "D2", PCB, battery)
- (19) Black body(SMD diode "D8", PCB, battery)
- (20) Black body(SMD diode "D4", PCB, battery)
- (21) Silvery metal(pin, battery)
- (22) Black foam with adhesive(battery)
- (23) Brown paper with adhesive(battery)
- (24) Golden tape(film, battery)
- (25) Blue plastic(film, battery)
- (26) Clear laminated black printed white plastic with adhesive(sticker, battery)
- (27) Silvery metal(wire, PCB, battery)
- (28) Black PVC(wire jacket, PCB, battery)
- (29) Black PVC(wire jacket, plug, battery)
- (30) Red PVC(wire jacket, plug, battery)
- (31) Blue PVC(wire jacket, plug, battery)

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- (32) Green PVC(wire jacket, plug, battery)
- (33) Brown PVC(wire jacket, plug, battery)
- (34) Silvery metal(wire, plug, battery)
- (35) Silvery metal(pin, plug, battery)
- (36) White plastic(plug, battery)
- (37) Green body(SMD capacitor"C2", beige PCB, white PCB, Pixel Brick)
- (38) Black printed green coating beige fiber with golden metal(beige PCB, white PCB, Pixel Brick)
- (39) Black printed green coating beige fiber with coppery metal(PCB, white PCB, Pixel Brick)
- (40) Black printed white coating brown fiber with coppery metal(white PCB, Pixel Brick)
- (41) Silvery solder(white PCB, Pixel Brick)
- (42) Grey body(inductor "L5", white PCB, Pixel Brick)
- (43) White/red/orange/yellow body(LED, white PCB, Pixel Brick)
- (44) Black/green body(SMD inductor "L8", white PCB, Pixel Brick)
- (45) Grey body(SMD inductor "L11", white PCB, Pixel Brick)
- (46) Grey body(SMD inductor "L6", white PCB, Pixel Brick)
- (47) Pink body(L9, white PCB, Pixel Brick)
- (48) White body(C33, white PCB, Pixel Brick)
- (49) Silvery body(SMD crystal oscillator "X3", white PCB, Pixel Brick)
- (50) Silvery metal(pin, AR1, white PCB, Pixel Brick)
- (51) Black body(AR1, white PCB, Pixel Brick)
- (52) Black body(SMD diode "D2", white PCB, Pixel Brick)
- (53) Black body(SMD triode "Q14", white PCB, Pixel Brick)
- (54) Black body(SMD triode "Q1", white PCB, Pixel Brick)
- (55) Black body(IC "U5", white PCB, Pixel Brick)
- (56) Silvery metal(pin, IC "U5", white PCB, Pixel Brick)
- (57) Black body(IC "Q202", white PCB, Pixel Brick)
- (58) Silvery metal(pin, IC "Q202", white PCB, Pixel Brick)
- (59) Black body(IC "U3", white PCB, Pixel Brick)
- (60) Silvery metal(pin, IC "U3", white PCB, Pixel Brick)
- (61) Black body(IC "U1", white PCB, Pixel Brick)
- (62) Black body(IC "U7", white PCB, Pixel Brick)
- (63) Black body(IC "U8", white PCB, Pixel Brick)
- (64) Black body(IC "U10", white PCB, Pixel Brick)
- (65) Black body(SMD resistor "R8", white PCB, Pixel Brick)

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- (66) Black body(SMD resistor "R10", white PCB, Pixel Brick)
- (67) Black body(SMD resistor "R203", white PCB, Pixel Brick)
- (68) Brown body(SMD capacitor "C21", white PCB, Pixel Brick)
- (69) Brown body(SMD capacitor "C56", white PCB, Pixel Brick)
- (70) Brown body(SMD capacitor "C57", white PCB, Pixel Brick)
- (71) Brown body(SMD capacitor "C10", white PCB, Pixel Brick)
- (72) Brown body(SMD capacitor "C11", white PCB, Pixel Brick)
- (73) White body(SMD capacitor "C47", white PCB, Pixel Brick)
- (74) White body(SMD capacitor "C442", white PCB, Pixel Brick)
- (75) Grey soft plastic(white PCB, Pixel Brick)
- (76) Silvery/golden metal(plug "CON1" white PCB, Pixel Brick)
- (77) Black plastic(plug "CON1" white PCB, Pixel Brick)
- (78) White plastic(ring, lamp holder, Pixel Brick)
- (79) Transparent plastic(lamp holder, Pixel Brick)
- (80) Translucent white plastic(light cover, Pixel Brick)
- (81) Silvery metal(screw, white PCB, Pixel Brick)
- (82) Silvery solder(black PCB, Pixel Brick)
- (83) White printed black coating brown fiber with coppery metal(black PCB, Pixel Brick)
- (84) White body(SMD capacitor, black PCB, Pixel Brick)
- (85) Brown body(SMD capacitor, black PCB, Pixel Brick)
- (86) Black body(SMD diode, black PCB, Pixel Brick)
- (87) Blue body(SMD resistor, black PCB, Pixel Brick)
- (88) Black body(SMD resistor, black PCB, Pixel Brick)
- (89) Silvery body(SMD crystal oscillator, black PCB, Pixel Brick)
- (90) Black body(IC "V3", black PCB, Pixel Brick)
- (91) Black body(IC "ESP", black PCB, Pixel Brick)
- (92) Silvery metal(pin, IC "ESP", black PCB, Pixel Brick)
- (93) Black body(IC "XMC", black PCB, Pixel Brick)
- (94) Silvery metal(pin, IC "XMC", black PCB, Pixel Brick)
- (95) Silvery metal(cover, black PCB, Pixel Brick)
- (96) Silvery solder(PCB, Pixel Brick)
- (97) White printed green coating green fiber with coppery metal(PCB, Pixel Brick)
- (98) Grey body(fuse, PCB, Pixel Brick)
- (99) Silvery body(SMD crystal oscillator "X3", PCB, Pixel Brick)

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- (100) Grey body(SMD capacitor "C64", PCB, Pixel Brick)
- (101) Grey body(SMD capacitor "C65", PCB, Pixel Brick)
- (102) Brown/white body(F1, PCB, Pixel Brick)
- (103) Black body(IC "U2", PCB, Pixel Brick)
- (104) Silvery metal(cover clip, PCB, Pixel Brick)
- (105) Silvery metal(cover, PCB, Pixel Brick)
- (106) Black body(IC "U5", PCB, Pixel Brick)
- (107) Black body(IC "U1", PCB, Pixel Brick)
- (108) Black body(IC "U3", PCB, Pixel Brick)
- (109) Silvery metal(pin, IC "U3", PCB, Pixel Brick)
- (110) Black body(SMD inductor "L4", PCB, Pixel Brick)
- (111) Yellow body(SMD capacitor "C29", PCB, Pixel Brick)
- (112) Brown body(SMD capacitor "C28", PCB, Pixel Brick)
- (113) White body(SMD capacitor "C214", PCB, Pixel Brick)
- (114) Silvery metal(pin, buzzer, PCB, Pixel Brick)
- (115) Black magnet(buzzer, PCB, Pixel Brick)
- (116) Coppery enameled wire(coil, buzzer, PCB, Pixel Brick)
- (117) Silvery metal(coil holder, buzzer, PCB, Pixel Brick)
- (118) Silvery metal(small plate, buzzer, PCB, Pixel Brick)
- (119) Silvery metal(big plate, buzzer, PCB, Pixel Brick)
- (120) Black plastic(case, buzzer, PCB, Pixel Brick)
- (121) Grey body(inductor "L16", PCB, Pixel Brick)
- (122) Black body(IC "U11", PCB, Pixel Brick)
- (123) Black body(IC "U7", PCB, Pixel Brick)
- (124) Black body(IC "Q6", PCB, Pixel Brick)
- (125) Grey body(SMD inductor "L19", PCB, Pixel Brick)
- (126) Black body(SMD inductor "NTC1", PCB, Pixel Brick)
- (127) Black coating with green/red coating(case, Pixel Brick)
- (128) Silvery metal(parts, Pixel Brick)
- (129) Black metal(button, parts, Pixel Brick)
- (130) Black metal(snap ring, parts, Pixel Brick)
- (131) Silvery metal(spring, parts, Pixel Brick)
- (132) Transparent plastic(light cover, parts, Pixel Brick)
- (133) Transparent glass(light cover, parts, Pixel Brick)

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- (134) Black metal(knob, Pixel Brick)
- (135) Black coated silvery metal(gasket, knob, Pixel Brick)
- (136) Grey soft plastic with adhesive(gasket, knob, Pixel Brick)
- (137) Silvery metal(holder, Pixel Brick)
- (138) Black metal(connect plate, holder, Pixel Brick)
- (139) Black plated silvery metal(screw, connect plate, holder, Pixel Brick)
- (140) Black plastic(socket plug, Pixel Brick)
- (141) Black soft plastic(inner socket, Pixel Brick)
- (142) Black plated silvery metal(screw on back, Pixel Brick)
- (143) Black plated silvery metal(screw on front , Pixel Brick)
- (144) Black plastic(frame, Pixel Brick)
- (145) Silvery metal(spring, frame, Pixel Brick)
- (146) Black soft plastic(edge, light cover, Pixel Brick)
- (147) Clear laminated black/white printed with adhesive(sticker, Pixel Brick)
- (148) Black plastic(case, Pixel Brick)
- (149) Red soft plastic(seal ring, plastic case, Pixel Brick)
- (150) Coppery metal(nut on case, Pixel Brick)
- (151) Silvery metal(case, Pixel Brick)
- (152) Black metal(button, Pixel Brick)
- (153) Black plated silvery metal(screw, button holder, Pixel Brick)
- (154) Silvery metal(spring, button, Pixel Brick)
- (155) Silvery solder(socket, Pixel Brick)
- (156) Silvery metal(wire, socket, Pixel Brick)
- (157) Red soft plastic(wire jacket, socket, Pixel Brick)
- (158) Black soft plastic(wire jacket, socket, Pixel Brick)
- (159) Red soft plastic(seal ring, Pixel Brick)
- (160) Black soft plastic(wire sleeve, socket, Pixel Brick)
- (161) Black plastic(case, socket, Pixel Brick)
- (162) Silvery plated coppery metal(tube, socket, Pixel Brick)
- (163) Silvery metal(pin, socket, Pixel Brick)
- (164) Silvery metal(pin, wire plug, Pixel Brick)
- (165) White plastic(wire plug, Pixel Brick)
- (166) Red PVC(wire plug, Pixel Brick)
- (167) Black PVC(wire plug, Pixel Brick)

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- (168) White plastic with adhesive(film, Pixel Brick)
- (169) Translucent glue(inner Pixel Brick)
- (170) Silvery metal(back cover, Pixel Brick)
- (171) White adhesive(screen PCB, Pixel Brick)
- (172) Black printed white plastic with adhesive(sticker, screen PCB, Pixel Brick)
- (173) Brown plastic(FPC, screen PCB, Pixel Brick)
- (174) Golden plastic with coppery metal(FPC, screen PCB, Pixel Brick)
- (175) Golden tape(screen PCB, Pixel Brick)
- (176) Black plastic(socket, screen PCB, Pixel Brick)
- (177) Beige plastic(socket, screen PCB, Pixel Brick)
- (178) Silvery metal(holder, socket, screen PCB, Pixel Brick)
- (179) Silvery/golden metal(pin, socket, screen PCB, Pixel Brick)
- (180) Clear laminated black/white/purple/orange printed with adhesive(control panel, screen PCB, Pixel Brick)
- (181) Silvery metal(pin, AR1, screen PCB, Pixel Brick)
- (182) Black body(AR1, screen PCB, Pixel Brick)
- (183) Silvery metal(cover of screen, screen PCB, Pixel Brick)
- (184) Black tape(screen, screen PCB, Pixel Brick)
- (185) Golden plastic with coppery metal(FPC, screen, screen PCB, Pixel Brick)
- (186) Black glue(screen, screen PCB, Pixel Brick)
- (187) Transparent black plastic(film, screen, screen PCB, Pixel Brick)
- (188) Transparent glass(screen, screen PCB, Pixel Brick)
- (189) Transparent silvery/grey glass(screen, screen PCB, Pixel Brick)
- (190) White adhesive(screen, screen PCB, Pixel Brick)
- (191) Yellow body(SMD capacitor "C4", screen PCB, Pixel Brick)
- (192) Brown body(SMD capacitor "C3", screen PCB, Pixel Brick)
- (193) Brown body(SMD capacitor "C6", screen PCB, Pixel Brick)
- (194) Yellow body(SMD capacitor "C1", screen PCB, Pixel Brick)
- (195) Black body(SMD resistor "R2", screen PCB, Pixel Brick)
- (196) Black body(SMD inductor "L1", screen PCB, Pixel Brick)
- (197) Black body(SMD diode "D1", screen PCB, Pixel Brick)
- (198) White printed green coating beige fiber with coppery metal(screen PCB, Pixel Brick)
- (199) Silvery solder(screen PCB, Pixel Brick)
- (200) Black plastic(film, inner Pixel Brick)
- (201) White plastic(socket "P3", PCB, Pixel Brick)

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- (202) Silvery metal(pin, socket "P3", PCB, Pixel Brick)
- (203) Golden metal(pin, socket "P2", PCB, Pixel Brick)
- (204) Black plastic(socket "P2", PCB, Pixel Brick)
- (205) Silvery metal(pin, socket "P1", PCB, Pixel Brick)
- (206) Beige plastic(socket "P1", PCB, Pixel Brick)
- (207) Silvery/golden metal(pin, FPC socket, PCB, Pixel Brick)
- (208) Black plastic(FPC socket, PCB, Pixel Brick)
- (209) Grey white plastic(FPC socket, PCB, Pixel Brick)
- (210) Golden metal(pin, socket "CON200", PCB, Pixel Brick)
- (211) Black plastic(socket "CON200", PCB, Pixel Brick)
- (212) Grey body(SMD inductor "L7", PCB, Pixel Brick)
- (213) Black body(SMD diode "D1", PCB, Pixel Brick)
- (214) Black body(SMD triode "D5", PCB, Pixel Brick)
- (215) Black body(SMD diode "D7", PCB, Pixel Brick)
- (216) Black body(SMD diode "D200", PCB, Pixel Brick)
- (217) Black body(SMD triode "Q200", PCB, Pixel Brick)
- (218) Brown body(SMD capacitor "C59", PCB, Pixel Brick)
- (219) Brown body(SMD capacitor "C89", PCB, Pixel Brick)
- (220) Brown body(SMD capacitor "C93", PCB, Pixel Brick)
- (221) Brown body(SMD capacitor "C4", PCB, Pixel Brick)
- (222) White body(SMD capacitor "C17", PCB, Pixel Brick)
- (223) White body(SMD capacitor "C44", PCB, Pixel Brick)
- (224) Black body(SMD resistor "R37", PCB, Pixel Brick)
- (225) Black body(SMD resistor "R34", PCB, Pixel Brick)
- (226) Black body(SMD resistor "R33", PCB, Pixel Brick)

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A RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates (DBP, BBP, DEHP, DIBP) content

A.1 XRF screening test

Test method: IEC 62321-3-1:2013

Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(1)	BL	BL	BL	BL	---
(2)*	BL	BL	BL	BL	X
(3)	BL	BL	BL	BL	BL
(4)	BL	BL	BL	BL	BL
(5)	BL	BL	BL	BL	BL
(6)	BL	BL	BL	BL	BL
(7)	BL	BL	BL	BL	BL
(8)	BL	BL	BL	BL	BL
(9)	BL	BL	BL	BL	BL
(10)	BL	BL	BL	BL	BL
(11)	BL	BL	BL	BL	---
(12)	BL	BL	BL	BL	---
(13)	BL	BL	BL	BL	---
(14)	BL	BL	BL	BL	---
(15)	BL	BL	BL	BL	---
(16)	BL	BL	BL	BL	BL
(17)	BL	BL	BL	BL	BL
(18)	BL	BL	BL	BL	BL
(19)	BL	BL	BL	BL	BL
(20)	BL	BL	BL	BL	BL
(21)	BL	BL	BL	BL	---
(22)	BL	BL	BL	BL	BL
(23)	BL	BL	BL	BL	BL
(24)	BL	BL	BL	BL	BL
(25)	BL	BL	BL	BL	BL
(26)	BL	BL	BL	BL	BL
(27)	BL	BL	BL	BL	---

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(28)	BL	BL	BL	BL	BL
(29)	BL	BL	BL	BL	BL
(30)	BL	BL	BL	BL	BL
(31)	BL	BL	BL	BL	BL
(32)	BL	BL	BL	BL	BL
(33)	BL	BL	BL	BL	BL
(34)	BL	BL	BL	BL	---
(35)	BL	BL	BL	BL	---
(36)	BL	BL	BL	BL	BL
(37)	BL	BL	BL	BL	BL
(38)*	BL	BL	BL	BL	X
(39)*	BL	BL	BL	BL	X
(40)*	BL	BL	BL	BL	X
(41)	BL	BL	BL	BL	---
(42)	BL	BL	BL	BL	BL
(43)	BL	BL	BL	BL	BL
(44)	BL	BL	BL	BL	BL
(45)	BL	BL	BL	BL	BL
(46)	BL	BL	BL	BL	BL
(47)	BL	BL	BL	BL	BL
(48)	BL	BL	BL	BL	BL
(49)	BL	BL	BL	BL	BL
(50)	BL	BL	BL	BL	---
(51)	BL	BL	BL	BL	BL
(52)	BL	BL	BL	BL	BL
(53)	BL	BL	BL	BL	BL
(54)	BL	BL	BL	BL	BL
(55)	BL	BL	BL	BL	BL
(56)	BL	BL	BL	BL	---
(57)	BL	BL	BL	BL	BL
(58)	BL	BL	BL	BL	---

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(59)	BL	BL	BL	BL	BL
(60)	BL	BL	BL	BL	---
(61)	BL	BL	BL	BL	BL
(62)	BL	BL	BL	BL	BL
(63)	BL	BL	BL	BL	BL
(64)	BL	BL	BL	BL	BL
(65)	BL	BL	BL	BL	---
(66)	BL	BL	BL	BL	---
(67)	BL	BL	BL	BL	---
(68)	BL	BL	BL	BL	BL
(69)	BL	BL	BL	BL	BL
(70)	BL	BL	BL	BL	BL
(71)	BL	BL	BL	BL	BL
(72)	BL	BL	BL	BL	BL
(73)	BL	BL	BL	BL	BL
(74)	BL	BL	BL	BL	BL
(75)	BL	BL	BL	BL	BL
(76)	BL	BL	BL	BL	---
(77)*	BL	BL	BL	BL	X
(78)	BL	BL	BL	BL	BL
(79)	BL	BL	BL	BL	BL
(80)	BL	BL	BL	BL	BL
(81)	BL	BL	BL	BL	---
(82)	BL	BL	BL	BL	---
(83)	BL	BL	BL	BL	BL
(84)	BL	BL	BL	BL	BL
(85)	BL	BL	BL	BL	BL
(86)	BL	BL	BL	BL	BL
(87)	BL	BL	BL	BL	---
(88)	BL	BL	BL	BL	---
(89)	BL	BL	BL	BL	BL

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(90)	BL	BL	BL	BL	BL
(91)	BL	BL	BL	BL	BL
(92)	BL	BL	BL	BL	---
(93)	BL	BL	BL	BL	BL
(94)	BL	BL	BL	BL	---
(95)	BL	BL	BL	BL	---
(96)	BL	BL	BL	BL	---
(97)*	BL	BL	BL	BL	X
(98)	BL	BL	BL	BL	BL
(99)	BL	BL	BL	BL	BL
(100)	BL	BL	BL	BL	BL
(101)	BL	BL	BL	BL	BL
(102)	BL	BL	BL	BL	BL
(103)	BL	BL	BL	BL	BL
(104)	BL	BL	BL	BL	---
(105)	BL	BL	BL	BL	---
(106)	BL	BL	BL	BL	BL
(107)	BL	BL	BL	BL	BL
(108)	BL	BL	BL	BL	BL
(109)	BL	BL	BL	BL	---
(110)	BL	BL	BL	BL	BL
(111)	BL	BL	BL	BL	BL
(112)	BL	BL	BL	BL	BL
(113)	BL	BL	BL	BL	BL
(114)	BL	BL	BL	BL	---
(115)	BL	BL	BL	BL	BL
(116)	BL	BL	BL	BL	BL
(117)	BL	BL	BL	BL	---
(118)	BL	BL	BL	BL	---
(119)	BL	BL	BL	BL	---
(120)	BL	BL	BL	BL	BL

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(121)	BL	BL	BL	BL	BL
(122)	BL	BL	BL	BL	BL
(123)	BL	BL	BL	BL	BL
(124)	BL	BL	BL	BL	BL
(125)	BL	BL	BL	BL	BL
(126)	BL	BL	BL	BL	BL
(127)	BL	BL	BL	BL	BL
(128)	BL	BL	BL	BL	---
(129)	BL	BL	BL	BL	---
(130)*	BL	BL	BL	X	---
(131)	BL	BL	BL	BL	---
(132)	BL	BL	BL	BL	BL
(133)	BL	BL	BL	BL	BL
(134)	BL	BL	BL	BL	---
(135)	BL	BL	BL	BL	---
(136)	BL	BL	BL	BL	BL
(137)*	BL	BL	BL	X	---
(138)	BL	BL	BL	BL	---
(139)*	BL	BL	BL	X	---
(140)	BL	BL	BL	BL	BL
(141)	BL	BL	BL	BL	BL
(142)*	BL	BL	BL	X	---
(143)*	BL	BL	BL	X	---
(144)*	BL	BL	BL	BL	X
(145)	BL	BL	BL	BL	---
(146)	BL	BL	BL	BL	BL
(147)	BL	BL	BL	BL	BL
(148)*	BL	BL	BL	BL	X
(149)	BL	BL	BL	BL	BL
(150)*/*1	X	BL	BL	BL	---
(151)	BL	BL	BL	BL	---

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(152)	BL	BL	BL	BL	---
(153)*	BL	BL	BL	X	---
(154)	BL	BL	BL	BL	---
(155)	BL	BL	BL	BL	---
(156)	BL	BL	BL	BL	---
(157)	BL	BL	BL	BL	BL
(158)	BL	BL	BL	BL	BL
(159)	BL	BL	BL	BL	BL
(160)	BL	BL	BL	BL	BL
(161)	BL	BL	BL	BL	BL
(162)* ¹	OL(27447)	BL	BL	BL	---
(163)* ¹	OL(24553)	BL	BL	BL	---
(164)	BL	BL	BL	BL	---
(165)	BL	BL	BL	BL	BL
(166)	BL	BL	BL	BL	BL
(167)	BL	BL	BL	BL	BL
(168)	BL	BL	BL	BL	BL
(169)	BL	BL	BL	BL	BL
(170)	BL	BL	BL	BL	---
(171)	BL	BL	BL	BL	BL
(172)	BL	BL	BL	BL	BL
(173)	BL	BL	BL	BL	BL
(174)	BL	BL	BL	BL	---
(175)	BL	BL	BL	BL	BL
(176)	BL	BL	BL	BL	BL
(177)	BL	BL	BL	BL	BL
(178)	BL	BL	BL	BL	---
(179)	BL	BL	BL	BL	---
(180)	BL	BL	BL	BL	BL
(181)	BL	BL	BL	BL	---
(182)	BL	BL	BL	BL	BL

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(183)	BL	BL	BL	BL	---
(184)	BL	BL	BL	BL	BL
(185)	BL	BL	BL	BL	---
(186)	BL	BL	BL	BL	BL
(187)	BL	BL	BL	BL	BL
(188)	BL	BL	BL	BL	BL
(189)	BL	BL	BL	BL	BL
(190)	BL	BL	BL	BL	BL
(191)	BL	BL	BL	BL	BL
(192)	BL	BL	BL	BL	BL
(193)	BL	BL	BL	BL	BL
(194)	BL	BL	BL	BL	BL
(195)* ²	OL(1511)	BL	BL	BL	---
(196)	BL	BL	BL	BL	BL
(197)	BL	BL	BL	BL	BL
(198)*	BL	BL	BL	BL	X
(199)	BL	BL	BL	BL	---
(200)	BL	BL	BL	BL	BL
(201)	BL	BL	BL	BL	BL
(202)	BL	BL	BL	BL	---
(203)	BL	BL	BL	BL	---
(204)*	BL	BL	BL	BL	X
(205)	BL	BL	BL	BL	---
(206)*	BL	BL	BL	BL	X
(207)	BL	BL	BL	BL	---
(208)*	BL	BL	BL	BL	X
(209)	BL	BL	BL	BL	BL
(210)	BL	BL	BL	BL	---
(211)*	BL	BL	BL	BL	X
(212)	BL	BL	BL	BL	BL
(213)	BL	BL	BL	BL	BL

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(214)	BL	BL	BL	BL	BL
(215)	BL	BL	BL	BL	BL
(216)	BL	BL	BL	BL	BL
(217)	BL	BL	BL	BL	BL
(218)	BL	BL	BL	BL	BL
(219)	BL	BL	BL	BL	BL
(220)	BL	BL	BL	BL	BL
(221)	BL	BL	BL	BL	BL
(222)	BL	BL	BL	BL	BL
(223)	BL	BL	BL	BL	BL
(224)	BL	BL	BL	BL	---
(225)	BL	BL	BL	BL	---
(226)	BL	BL	BL	BL	---

Note:

--- = Not Applicable.

* = Screening by XRF and detected by chemical method. The test result of chemical method please refer to next pages.

*¹ = As claimed by the material declaration submitted by the client, the materials of the sample No. 150,162,163 are copper alloy. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

*² = As claimed by the material declaration submitted by the client, the materials of the sample No. 195 is ceramic. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted in electronic ceramic parts (e.g. piezoelectronic devices).

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Remark:

i Result were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

Note:

BL = Below Limit

OL = Over Limit

IN / X = Inconclusive (questionable, need further chemical analysis)

ii The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

iii The maximum permissible limit is quoted from the RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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A.2 Wet Chemical Testing

A.2.1 Total Lead content

Test method: IEC 62321-5:2013

Item	Unit	MDL	Result	Limit
			(150)	
Lead(Pb)	mg/kg	10	29562*1	1000
Conclusion	/	/	Pass	/

A.2.2 Chromium VI (CrVI) content

Test method: IEC 62321-7-1:2015

Item	Unit	MDL	Result						Limit
			(130)	(137)	(139)	(142)	(143)	(153)	
hexavalent chromium(Cr VI)	µg/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	See Remark
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Limit Remark:

- The sample is positive for CrVI if the CrVI concentration is greater than 0.13µg/cm². The sample coating is considered to contain CrVI
 - The sample is negative for CrVI if CrVI is ND (concentration less than 0.10µg/cm²). The coating is considered a non-CrVI based coating
 - The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive -unavoidable coating variations may influence the determination
- For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

A.2.3 PBBs & PBDEs content

Test method: IEC 62321-6:2015

Item	Unit	MDL	Result						Limit
			(2)	(38)	(39)	(40)	(77)	(97)	
Monobromobiphenyl (MonoBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromobiphenyl(DiBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromobiphenyl(TriBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromobiphenyl(PentaBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromobiphenyl(HexaBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromobiphenyl (HeptaBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromobiphenyl(OctaBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromobiphenyl(NonaBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromobiphenyl(DecaBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-

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Item	Unit	MDL	Result						Limit
			(2)	(38)	(39)	(40)	(77)	(97)	
Monobromodiphenyl ether (MonoBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
sum of MonoBB, DiBB, TriBB, TetraBB, PentaBB, HexaBB, HeptaBB, OctaBB, NonaBB, DecaBB	mg/kg	-	/	/	/	/	/	/	1000
sum of MonoBDE, DiBDE, TriBDE, TetraBDE, PentaBDE, HexaBDE, HeptaBDE, OctaBDE, NonaBDE, DecaBDE	mg/kg	-	/	/	/	/	/	/	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result				Limit
			(144)	(148)	(198)	(204)	
Monobromobiphenyl (MonoBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Dibromobiphenyl (DiBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Tribromobiphenyl (TriBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Tetrabromobiphenyl (TetraBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Pentabromobiphenyl (PentaBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-

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Item	Unit	MDL	Result				Limit
			(144)	(148)	(198)	(204)	
Hexabromobiphenyl(HexaBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Heptabromobiphenyl (HeptaBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Octabromobiphenyl(OctaBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Nonabromobiphenyl(NonaBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Decabromobiphenyl(DecaBB)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
sum of MonoBDE,DiBDE,TriBDE,TetraBDE,PentaBDE,HexaBDE,HeptaBDE,OctaBDE,NonaBDE,DecaBDE	mg/kg	-	/	/	/	/	1000
sum of MonoBB,DiBB,TriBB,TetraBB,PentaBB,HexaBB,HeptaBB,OctaBB,NonaBB,DecaBB	mg/kg	-	/	/	/	/	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Result			Limit
			(206)	(208)	(211)	
Monobromobiphenyl (MonoBB)	mg/kg	5	N.D.	N.D.	N.D.	-
Dibromobiphenyl (DiBB)	mg/kg	5	N.D.	N.D.	N.D.	-
Tribromobiphenyl (TriBB)	mg/kg	5	N.D.	N.D.	N.D.	-
Tetrabromobiphenyl (TetraBB)	mg/kg	5	N.D.	N.D.	N.D.	-
Pentabromobiphenyl (PentaBB)	mg/kg	5	N.D.	N.D.	N.D.	-
Hexabromobiphenyl (HexaBB)	mg/kg	5	N.D.	N.D.	N.D.	-
Heptabromobiphenyl (HeptaBB)	mg/kg	5	N.D.	N.D.	N.D.	-
Octabromobiphenyl (OctaBB)	mg/kg	5	N.D.	N.D.	N.D.	-
Nonabromobiphenyl (NonaBB)	mg/kg	5	N.D.	N.D.	N.D.	-
Decabromobiphenyl (DecaBB)	mg/kg	5	N.D.	N.D.	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/kg	5	N.D.	N.D.	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/kg	5	N.D.	N.D.	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/kg	5	N.D.	N.D.	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/kg	5	N.D.	N.D.	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/kg	5	N.D.	N.D.	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/kg	5	N.D.	N.D.	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/kg	5	N.D.	N.D.	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/kg	5	N.D.	N.D.	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/kg	5	N.D.	N.D.	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/kg	5	N.D.	N.D.	N.D.	-
sum of MonoBDE, DiBDE, TriBDE, TetraBDE, PentaBDE, HexaBDE, HeptaBDE, OctaBDE, NonaBDE, DecaBDE	mg/kg	-	/	/	/	1000

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Item	Unit	MDL	Result			Limit
			(206)	(208)	(211)	
sum of MonoBB, DiBB, TriBB, TetraBB, PentaBB, HexaBB, HeptaBB, OctaBB, NonaBB, DecaBB	mg/kg	-	/	/	/	1000
Conclusion	/	/	Pass	Pass	Pass	/

A.3 Phthalates(DBP, BBP, DEHP, DIBP)content

Test method: IEC 62321-8:2017

Item	Unit	MDL	Result						Limit
			(2)+(38)	(3)+(4)+(5)	(6)+(16)+(17)	(18)+(19)+(20)	(22)	(23)+(24)+(25)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(26)+(190)	(28)+(29)+(30)	(31)+(32)+(33)	(36)+(201)	(39)+(40)+(83)	(43)+(47)+(48)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	31	86	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	54	132	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(51)+(52)+(53)	(54)+(55)+(57)	(59)+(61)+(62)	(63)+(64)+(86)	(75)+(77)+(136)	(78)+(79)+(80)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	139	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Result						Limit
			(90)+(91)+(93)	(97)+(198)	(102)+(103)	(106)+(107)+(108)	(113)+(116)+(122)	(120)+(209)+(211)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(123)+(124)+(217)	(127)	(132)+(133)+(165)	(140)+(144)	(141)	(146)+(149)+(157)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	35	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(147)	(148)+(161)	(158)+(159)+(160)	(166)+(167)	(168)	(169)+(171)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	77	104	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result				Limit
			(172)+(175)+(180)	(173)+(174)+(185)	(176)+(177)+(200)	(182)+(197)+(213)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Result			Limit
			(184)+(186)+(187)	(204)+(206)+(208)	(214)+(215)+(216)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- N.D.= Not Detected or less than MDL

- MDL = Method Detection Limit

- "+" = Composite testing.

-The Result less than MDL are not taken into account while calculating the sum contents.

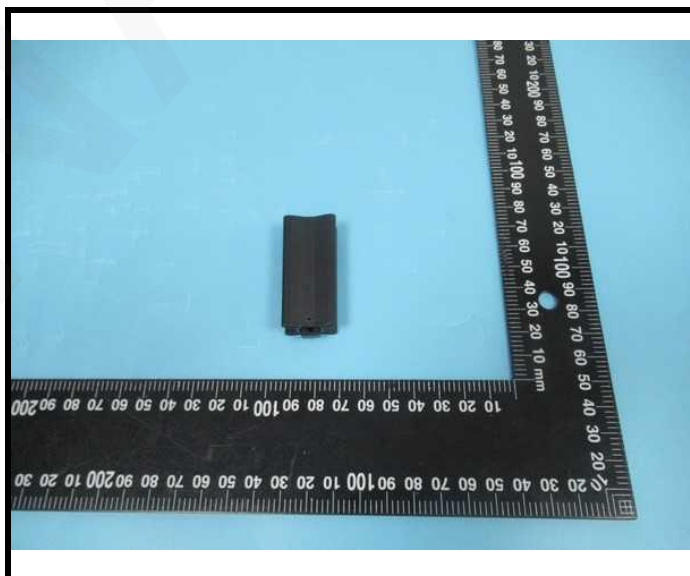
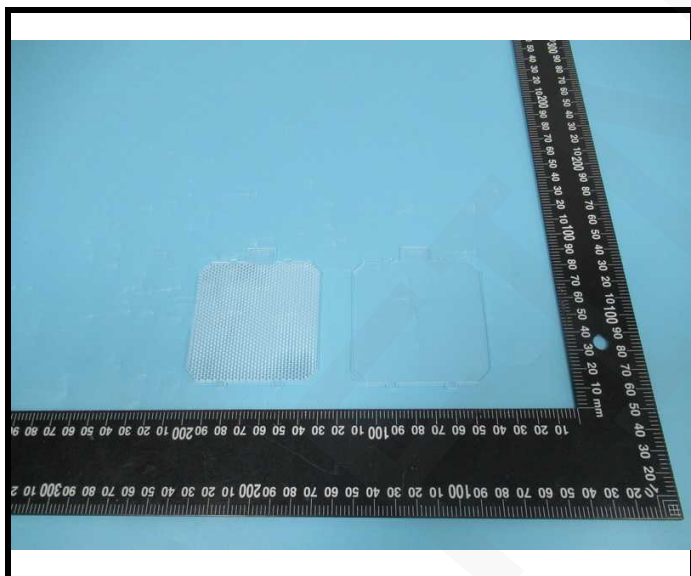
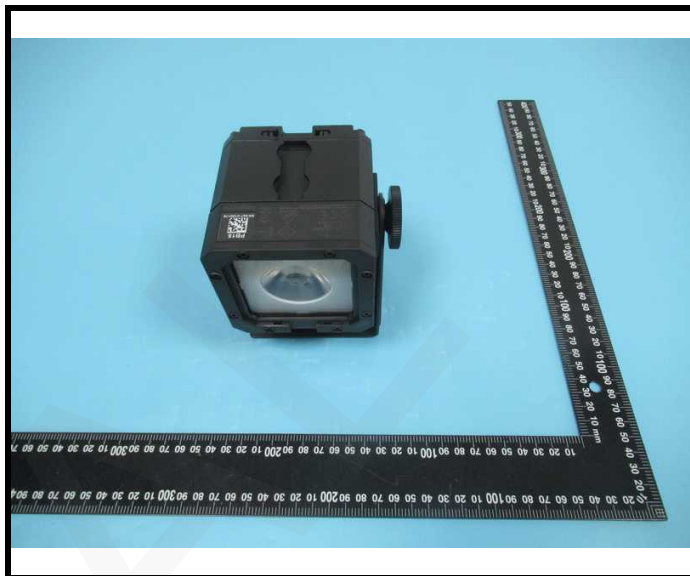
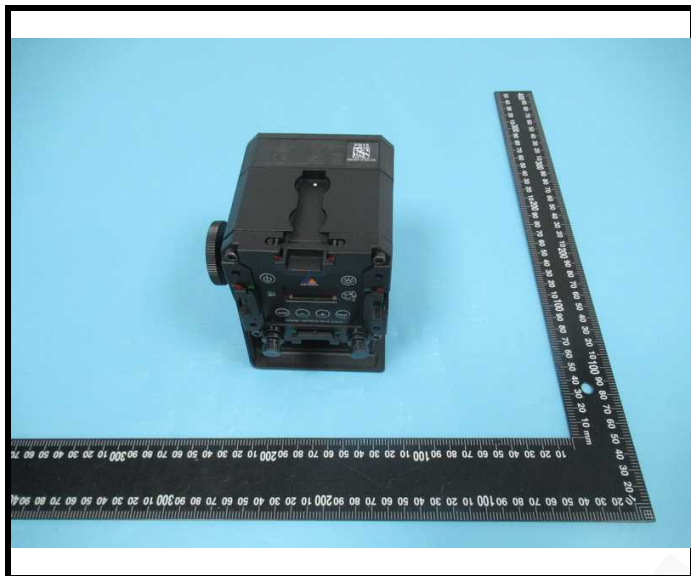
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Photograph of Sample

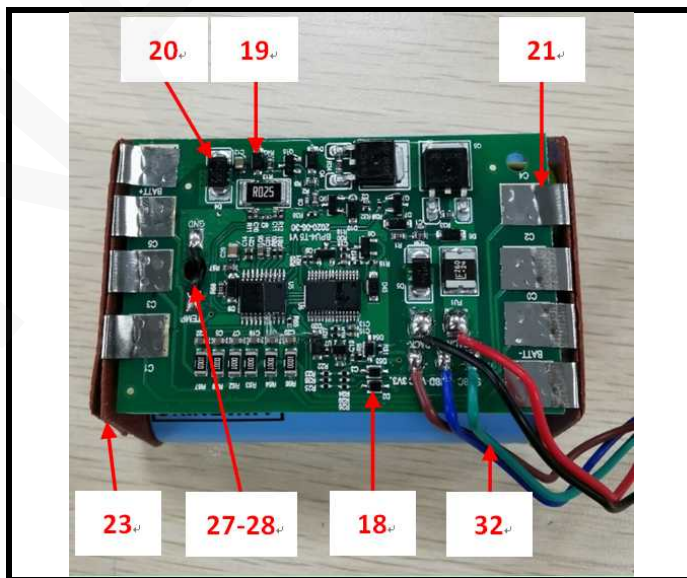
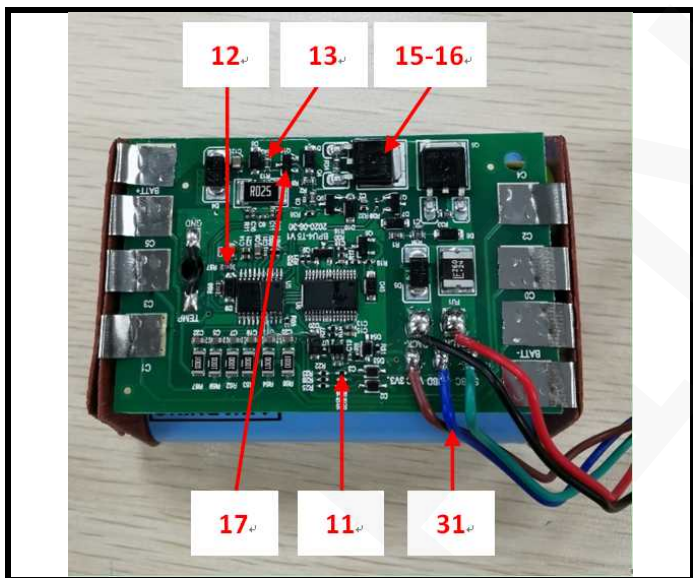
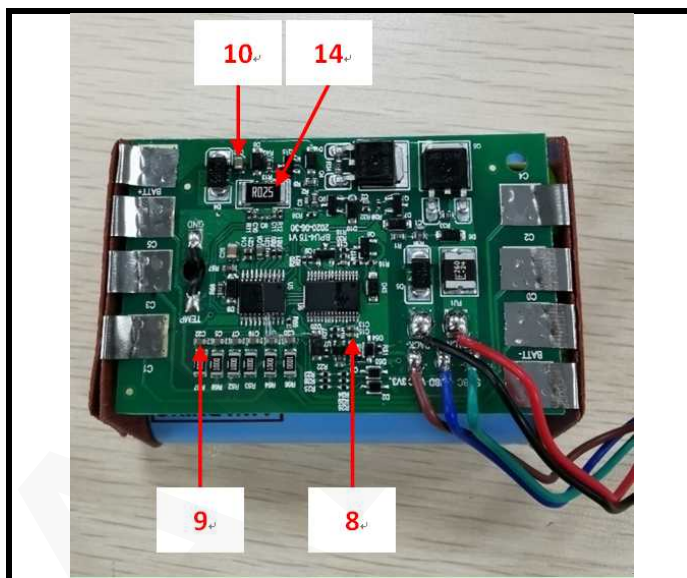
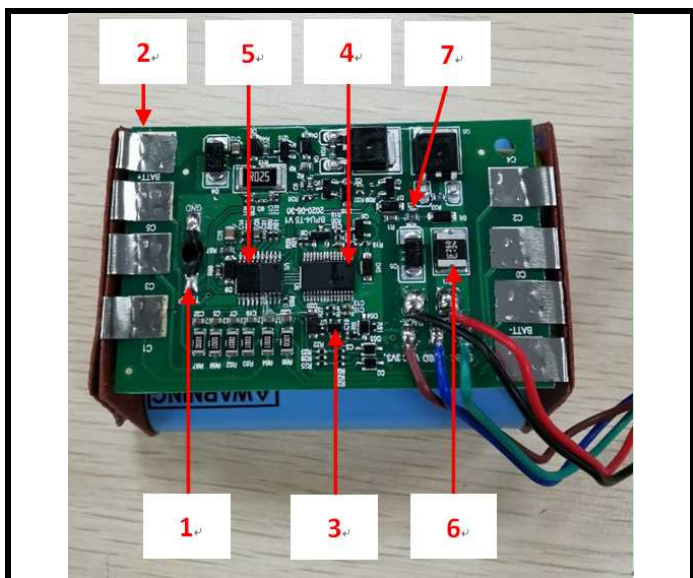


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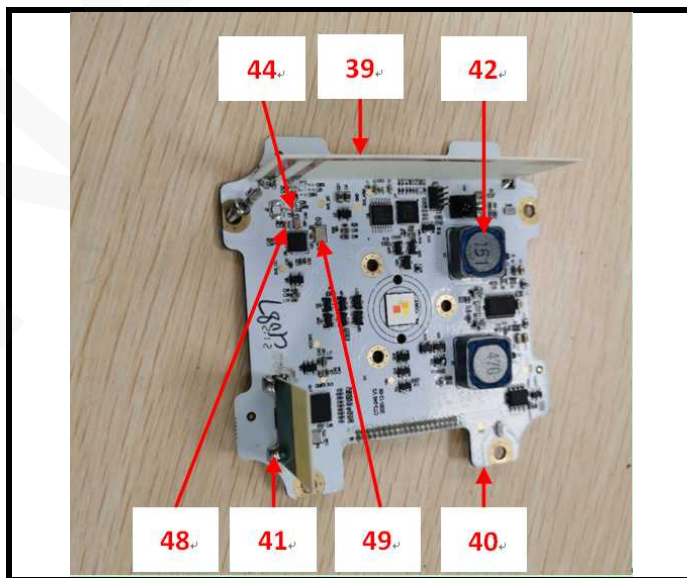
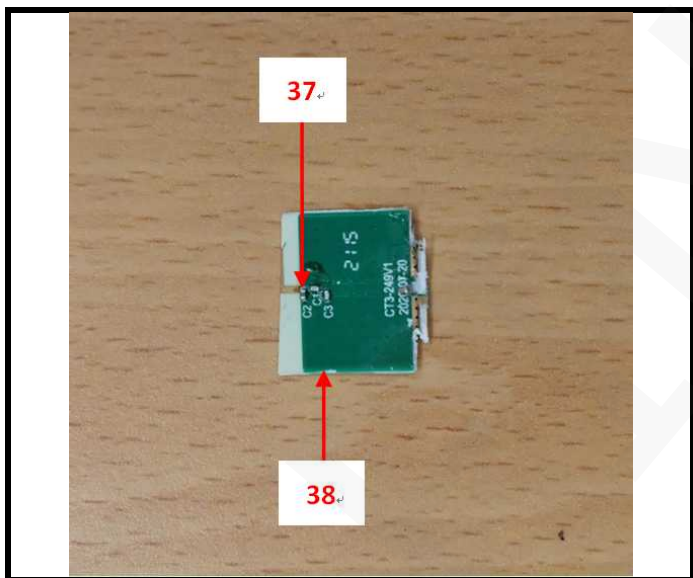
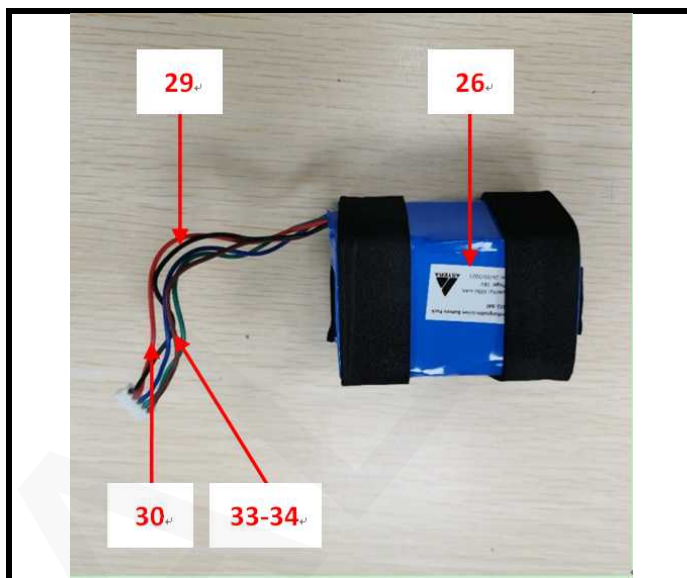
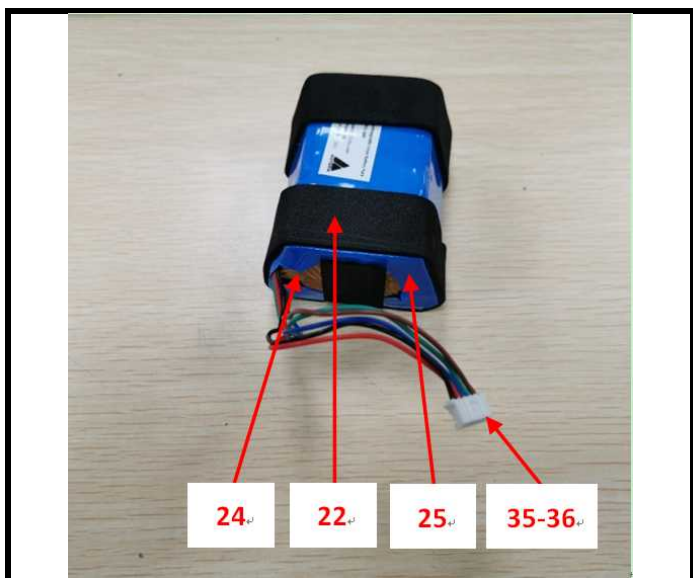


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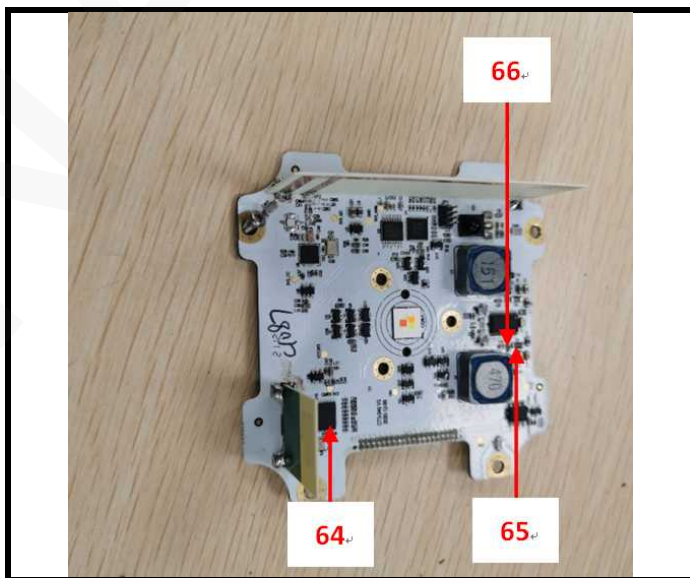
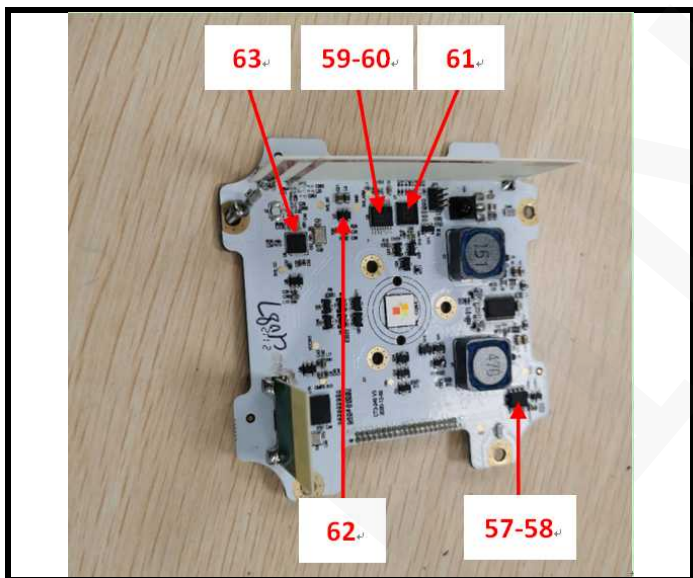
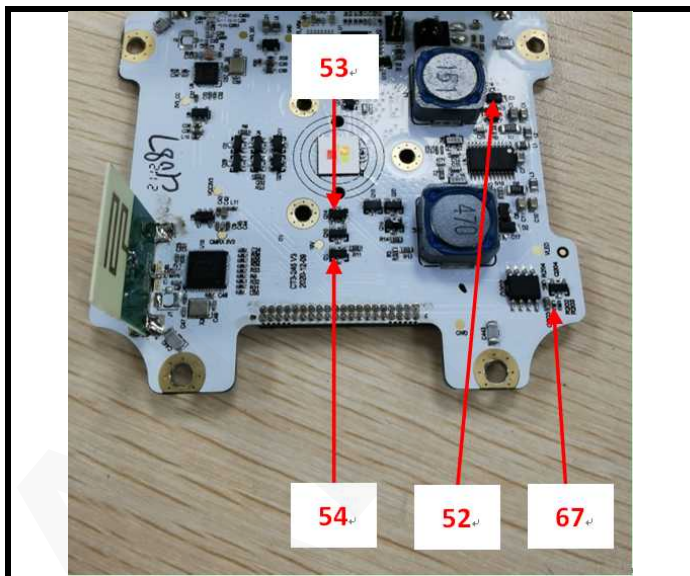
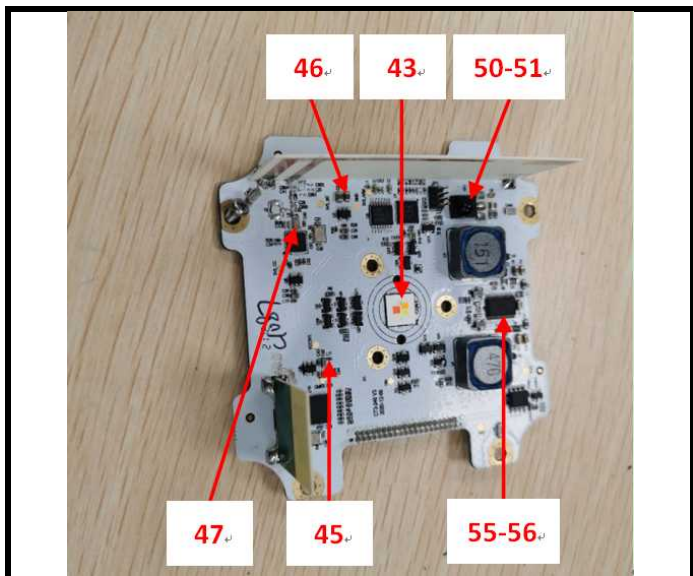


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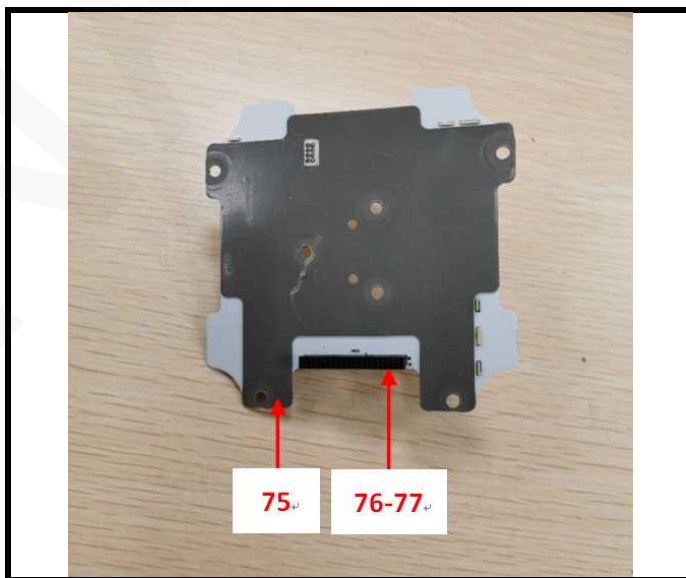
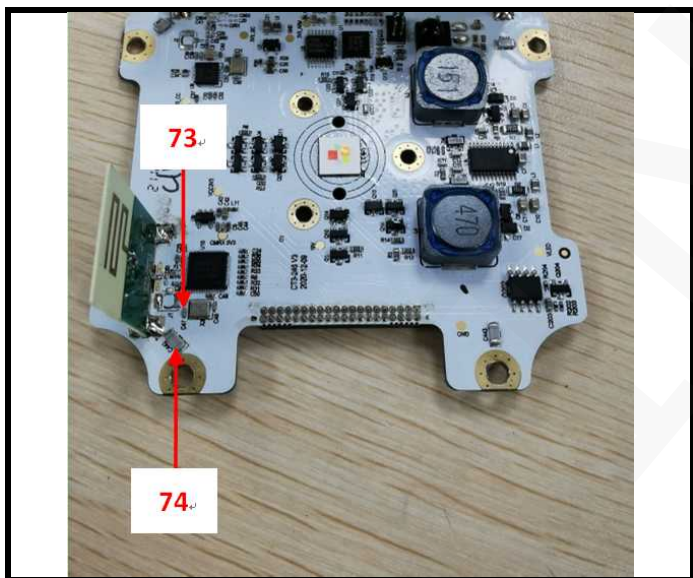
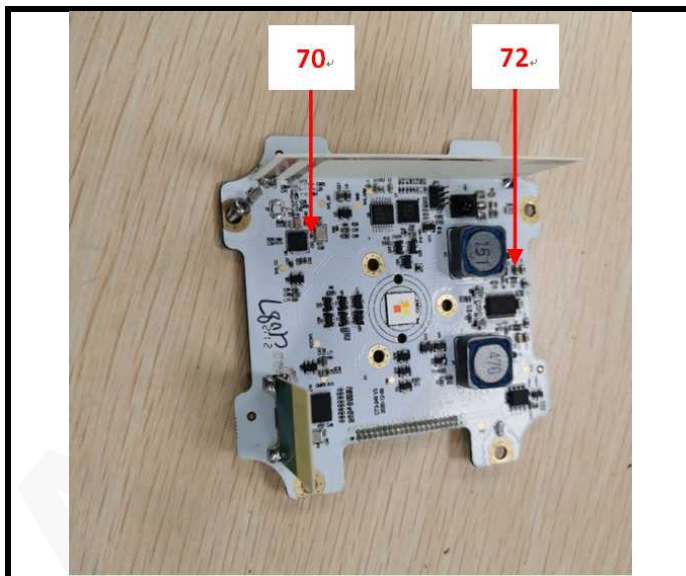
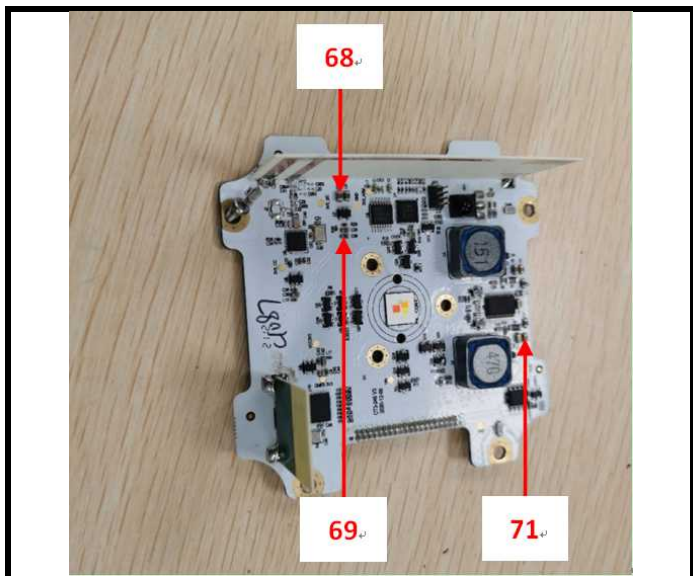


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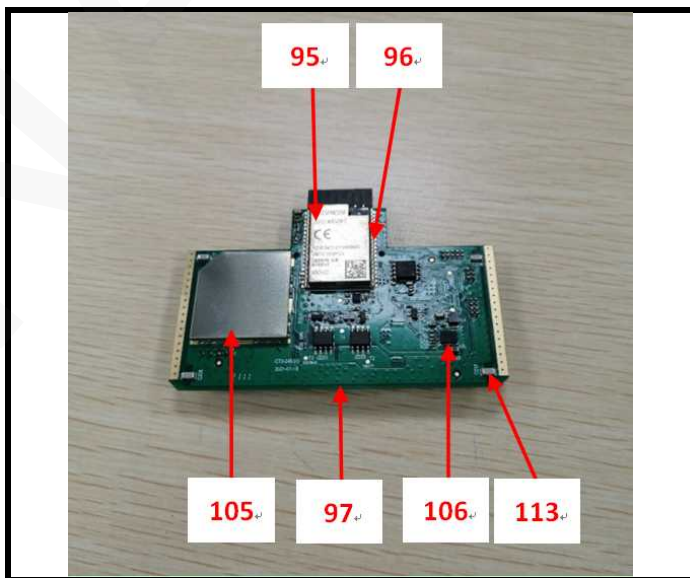
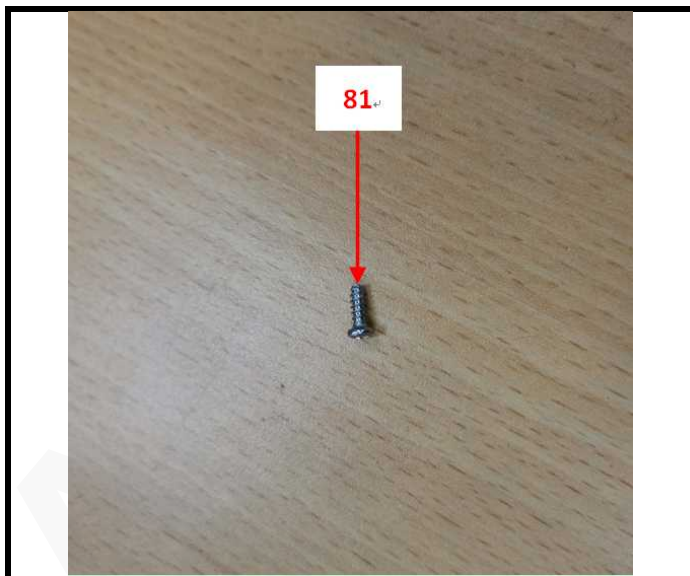
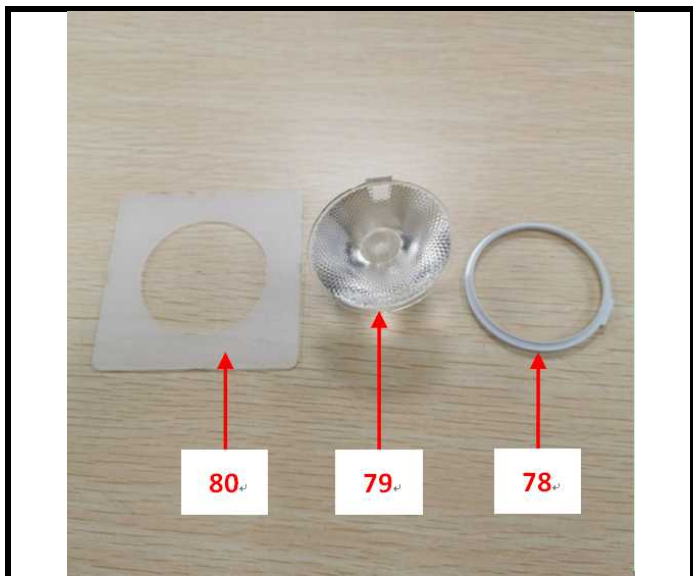


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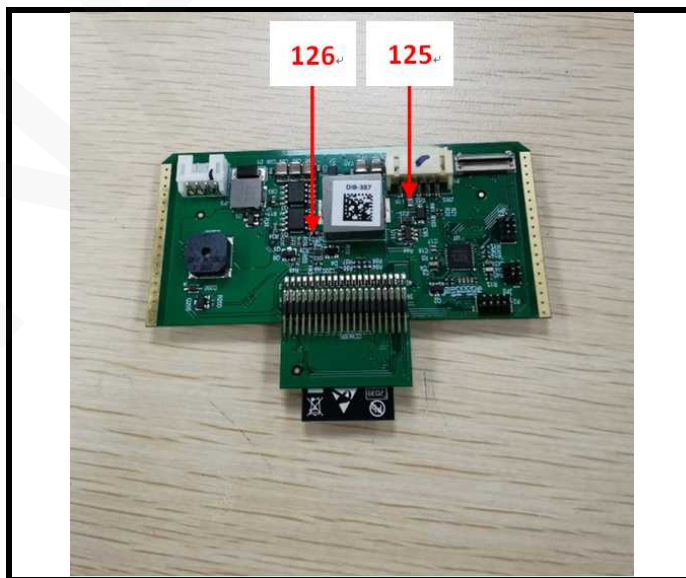
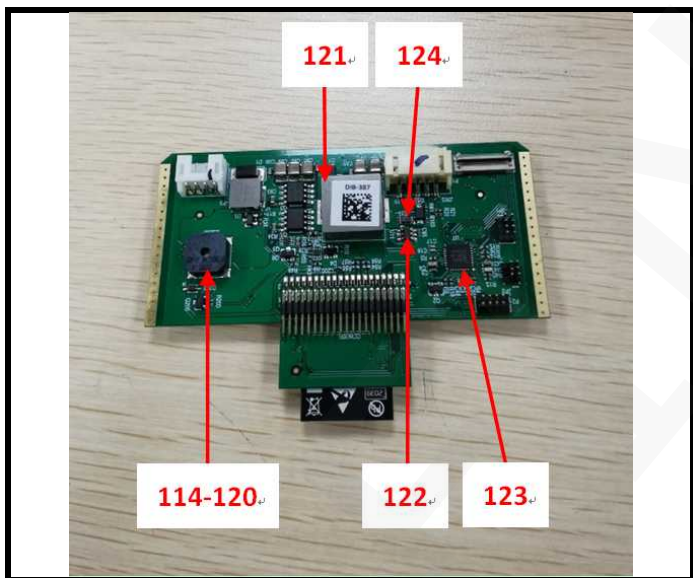
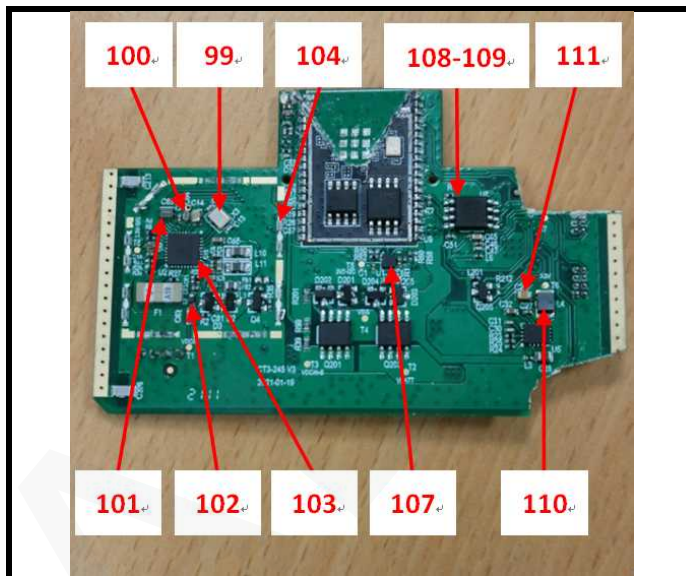
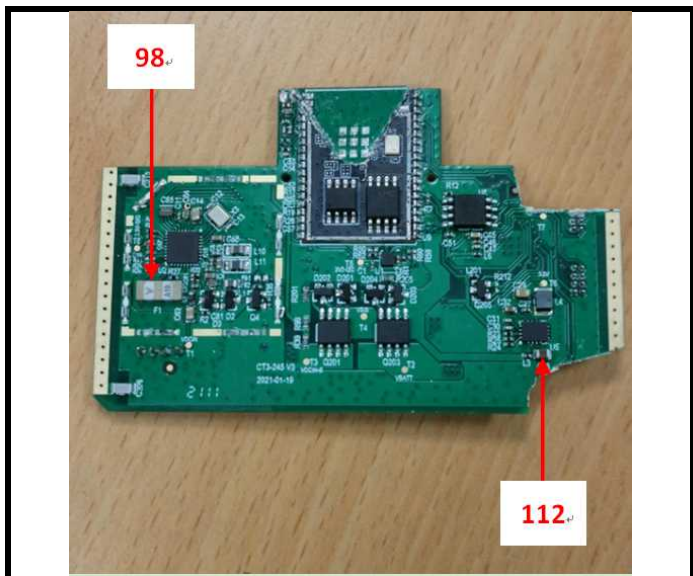


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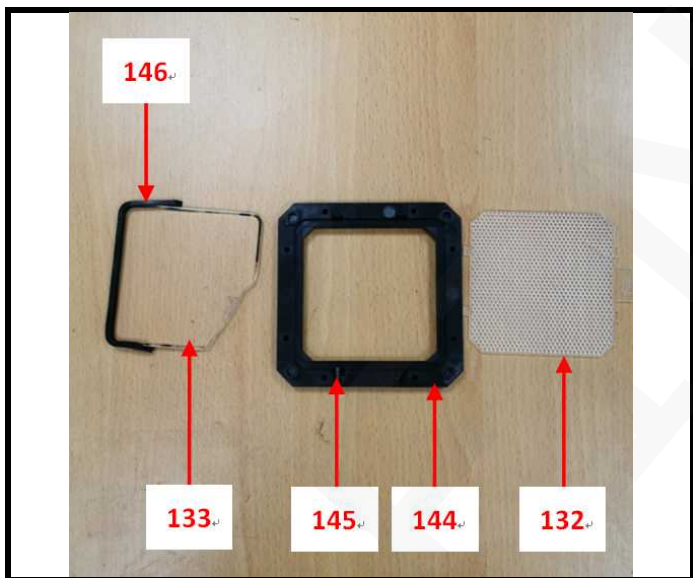
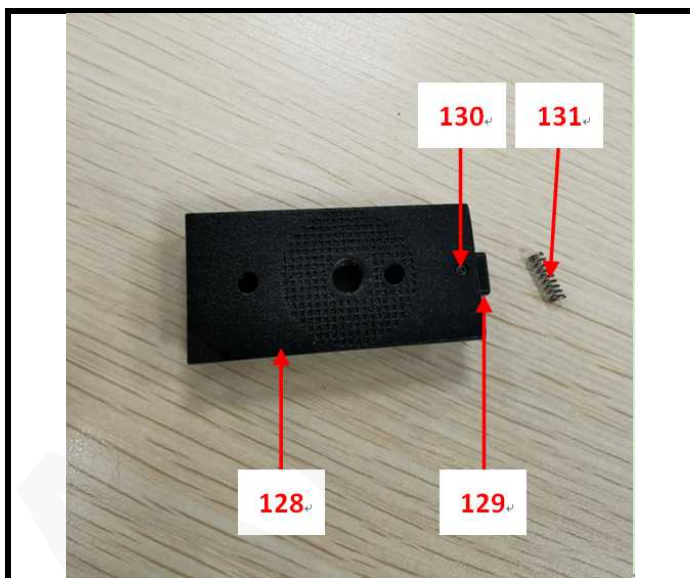


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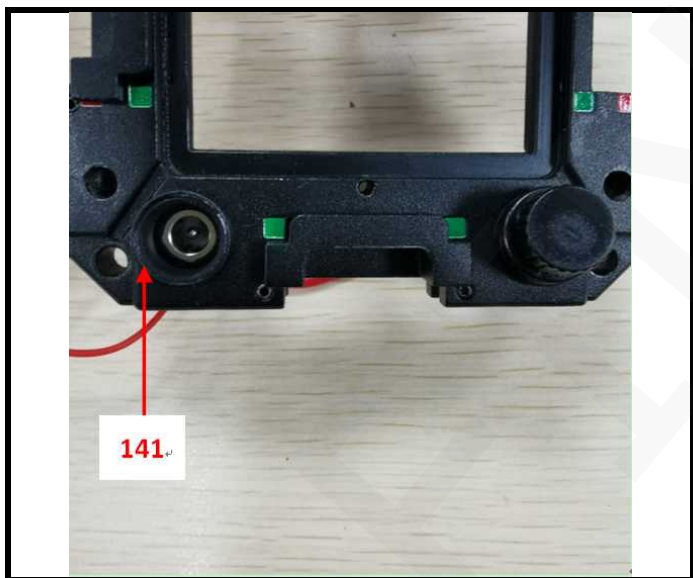


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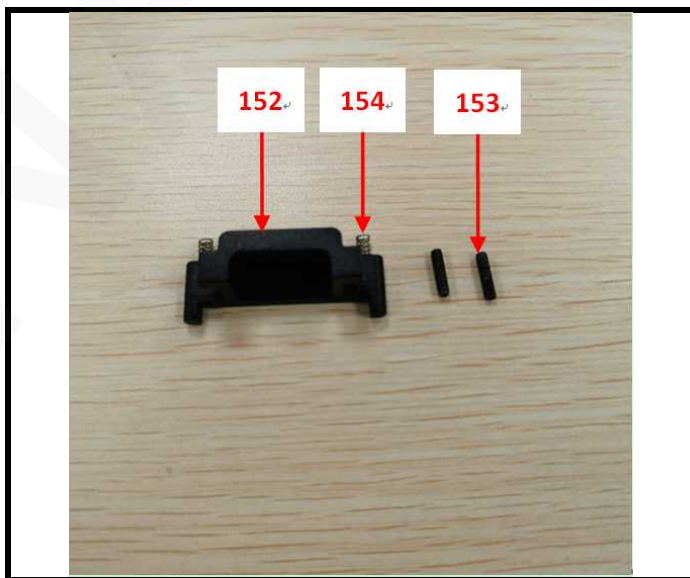
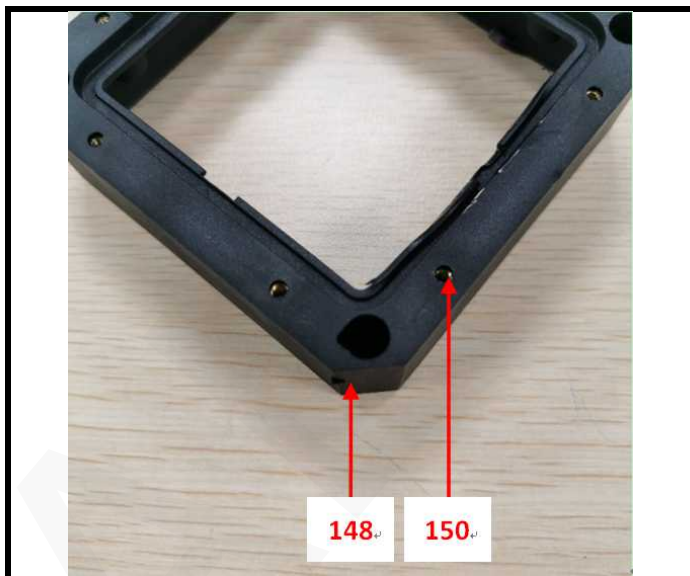
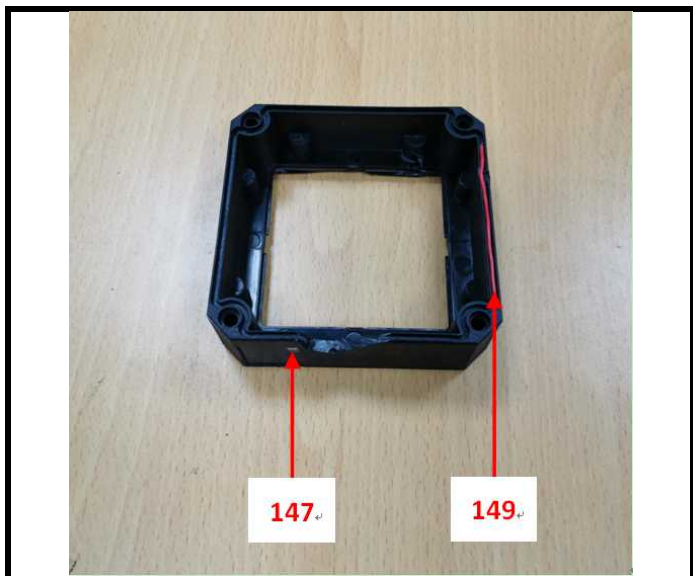


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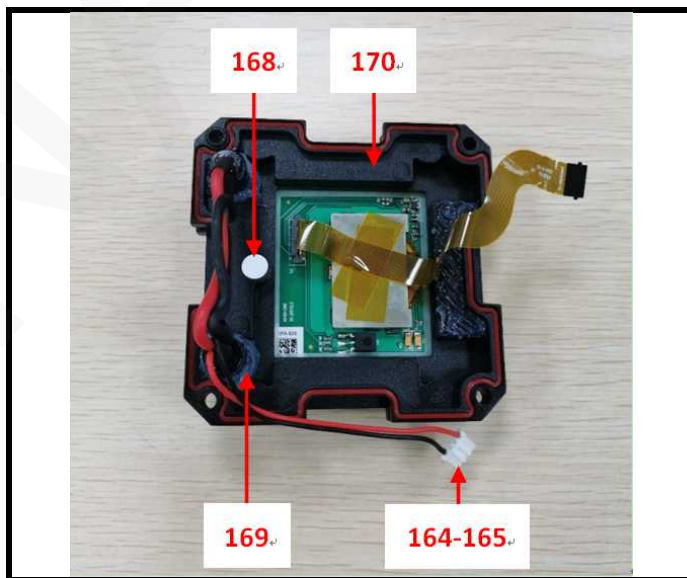
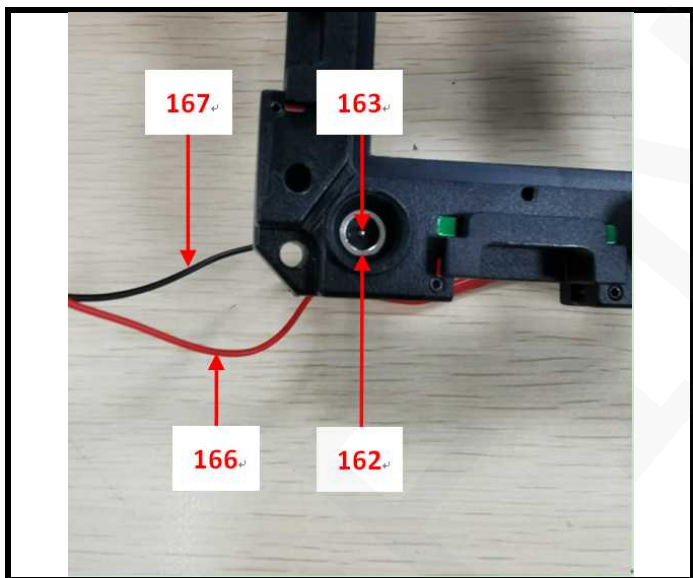
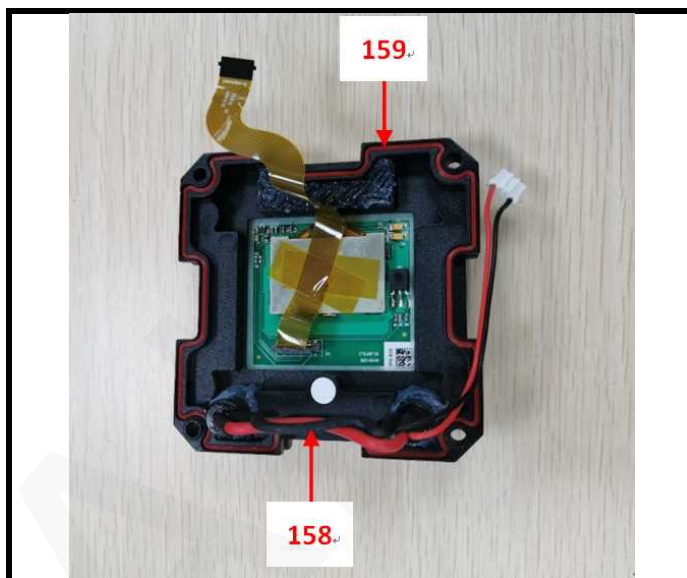
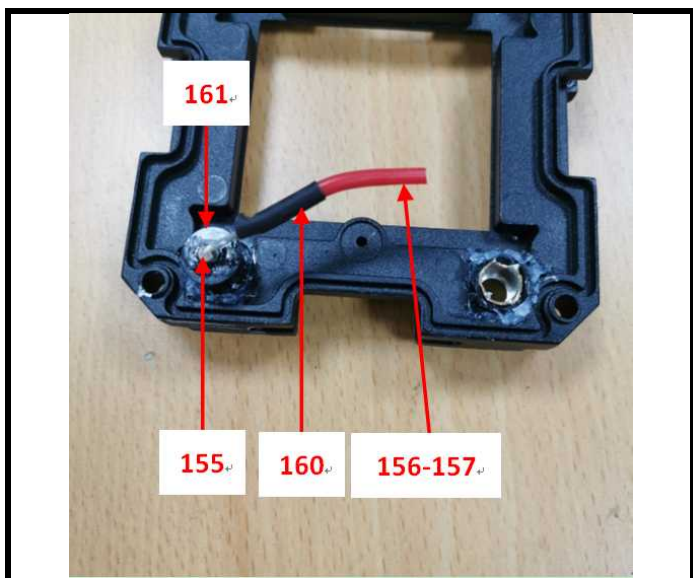


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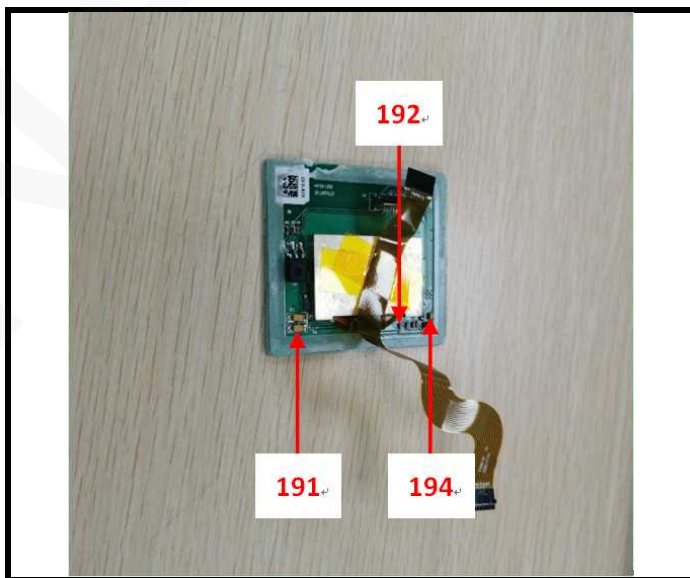
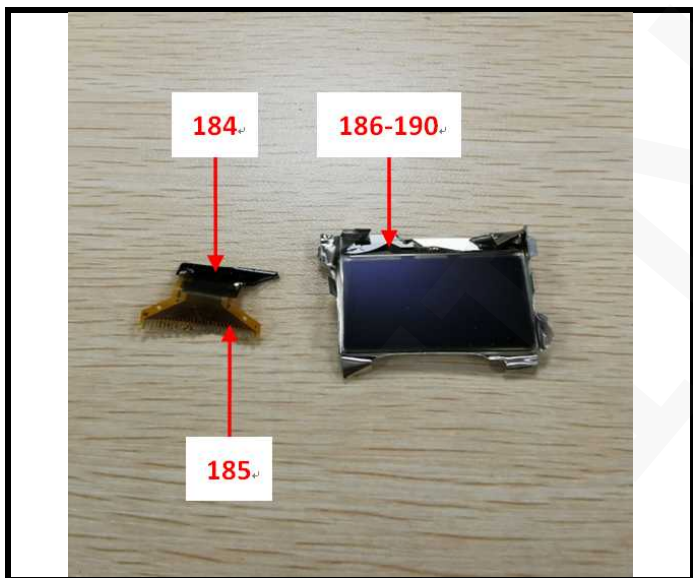
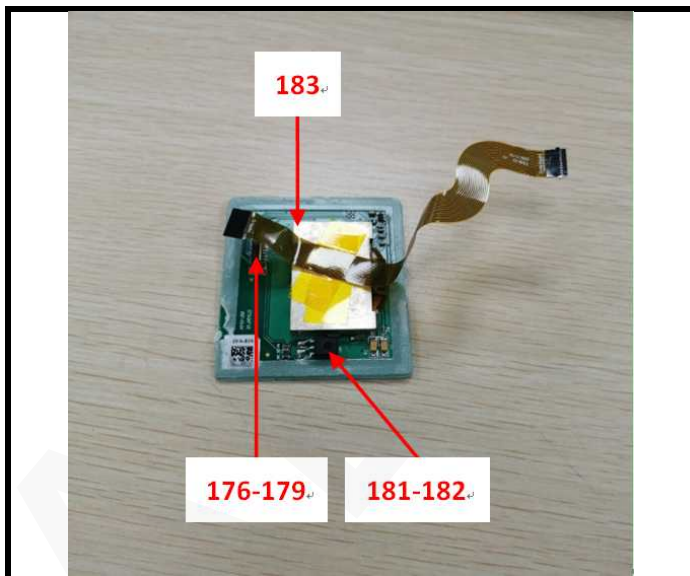
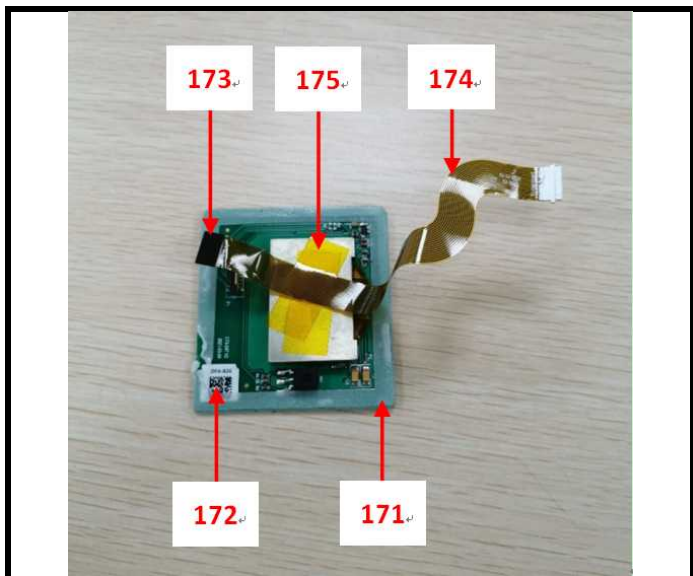


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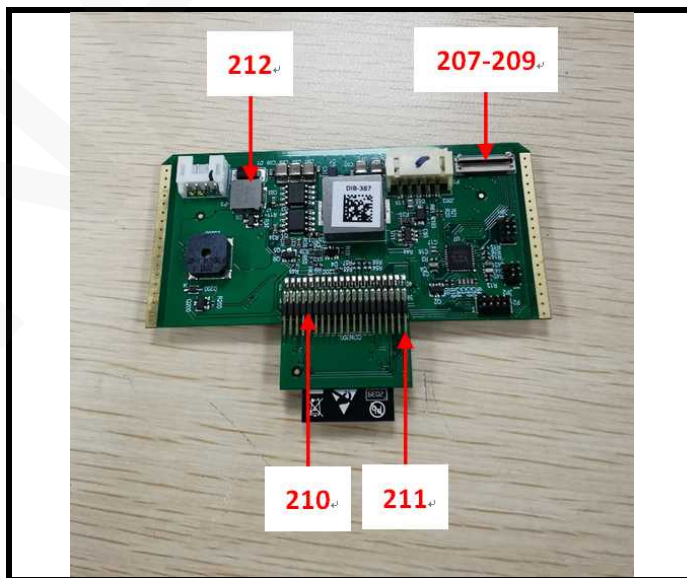
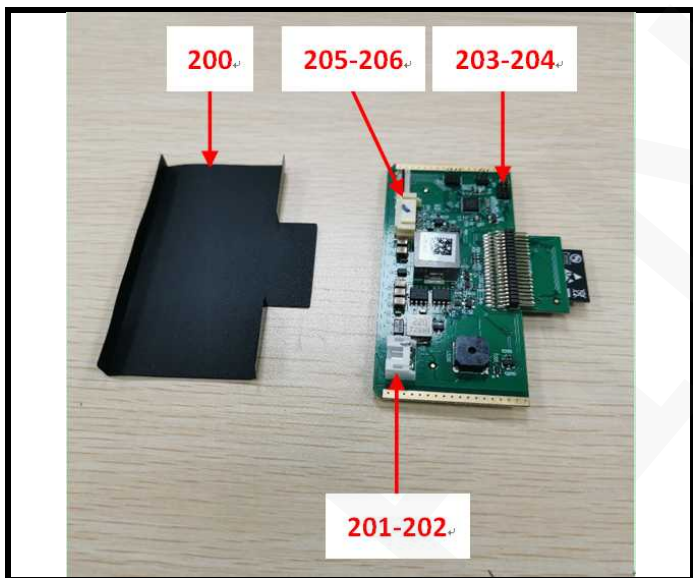
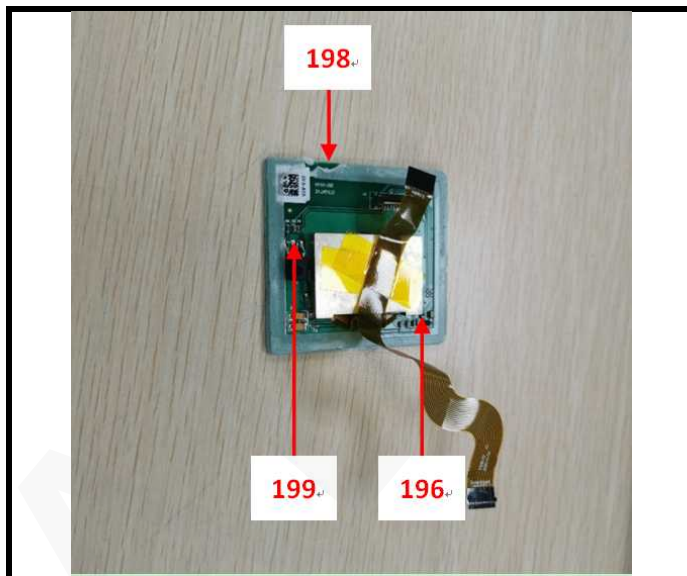
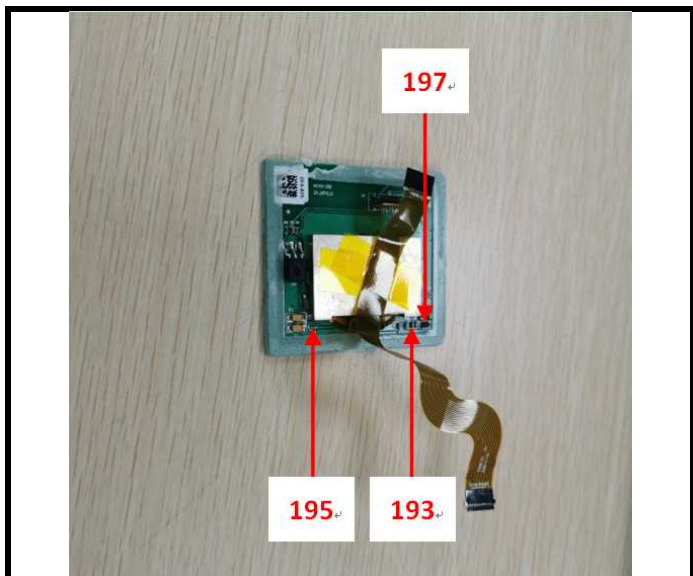


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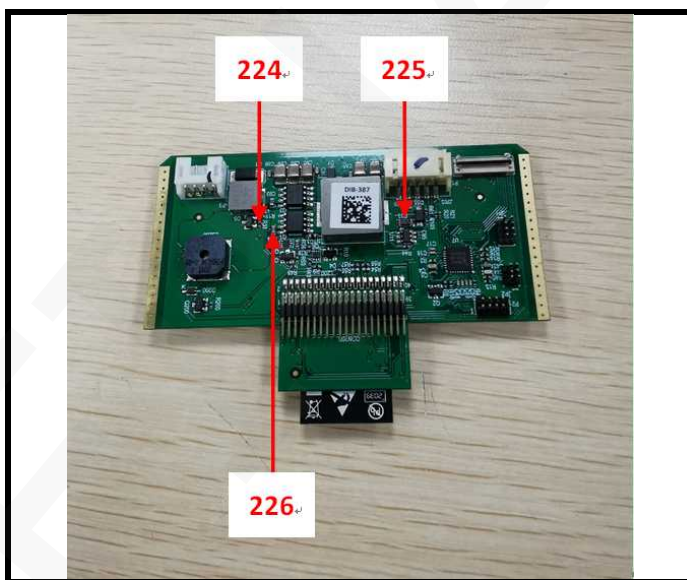
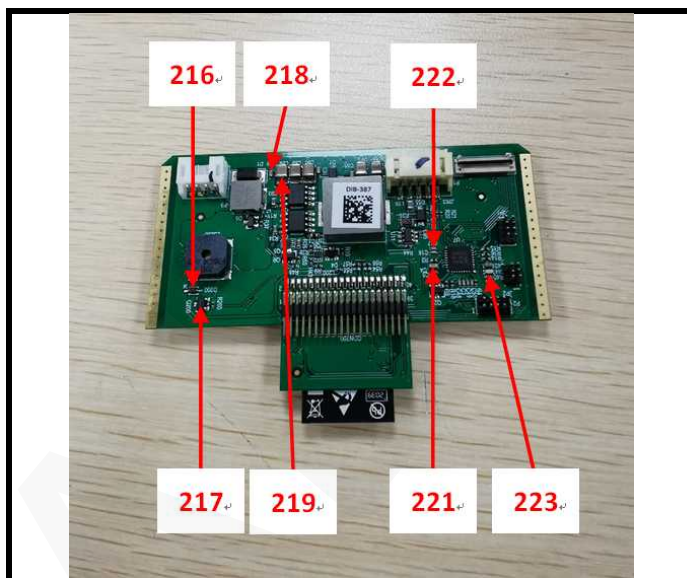
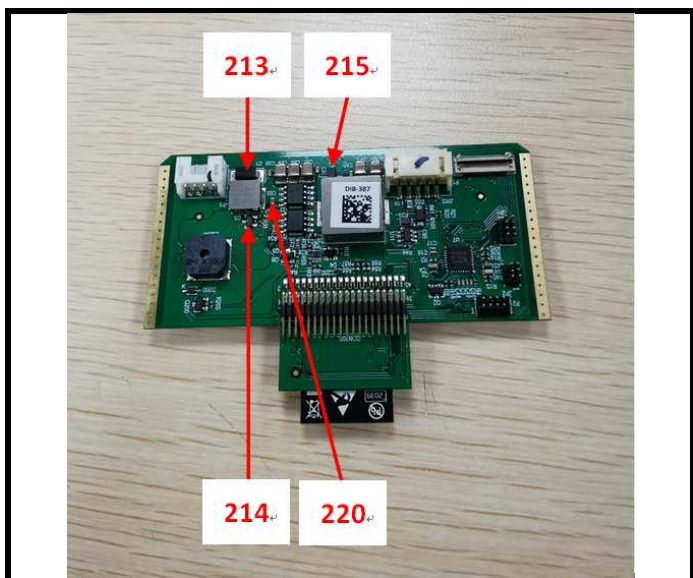


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- 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
- 3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
- 4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
- 6.The test samples were in good condition before testing.

*** End of Report ***