TEST REPORT

Report No.: SZ1231009-58633E Date: November 23, 2023

Dragino Technology Co., Limited.
Room 202,BaoChengTai industrial park,No.8 CaiYun LongCheng Street,LongGang District,Shenzhen China

Report on the submitted samples said to be:

Sample Name:	LoRaWAN Sensor Node
Tested Style/Item No.:	SN50v3-LB
Additional Style/ Item No.:	D20-LB,D20S-LB,D22-LB,D23-LB,S31-LB,S31B-LB,SW3L-LB-004,SW3L-LB-006,SW3L-LB-010,WL03A-LB,DS03A-LB,CPL03-LB,TS01-LB
Sample Receiving Date:	October 09,2023
Lately Re-submit Date:	October 30,2023
Testing Period:	October 09,2023 - November 21,2023
Result:	**Please refer to next page(s).**

Signed for and on behalf of

BACL

Checked by: Queenie Lee

Approved by: Len Xie

TEST REPORT

****

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 in the components of submitted sample as the requirement of client	
A.1 XRF screening test	Pass
A.2 Wet Chemical Testing	
A.2.1 PBBs & PBDEs content	Pass
A.3 Phthalates(DBP, BBP, DEHP, DIBP)content	Pass

****

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 in the components of submitted sample as the requirement of client

A.1 XRF screening test

Test method: IEC 62321-3-1:2013

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(1)	White printed black plastic(cover, antenna) [1]-[14]	BL	BL	BL	BL	BL
(2)*1	Light golden metal(nut, antenna) [1]-[14]	OL (11873)	BL	BL	BL	---
(3)	Silvery solder(nut/tube, antenna) [1]-[14]	BL	BL	BL	BL	---
(4)	Golden metal(tube, antenna) [1]-[14]	BL	BL	BL	BL	---
(5)*1	Golden metal(pin, antenna) [1]-[14]	OL (14422)	BL	BL	BL	---
(6)	Silvery solder(pin, antenna) [1]-[14]	BL	BL	BL	BL	---
(7)	Golden metal(spring, antenna) [1]-[14]	BL	BL	BL	BL	---
(8)	Grey printed black plastic(heat-shrink tubing, spring, antenna) [1]-[14]	BL	BL	BL	BL	BL
(9)	White plastic(insulator, antenna) [1]-[14]	BL	BL	BL	BL	BL
(10)	Black plastic(screwed pipe, cable gland, converter) [1]-[6][8]-[13]	BL	BL	BL	BL	BL
(11)	Black plastic(nut, cable gland, converter) [1]-[6][8]-[13]	BL	BL	BL	BL	BL
(12)	Black plastic(cap, cable gland, converter) [1]-[6][8]-[13]	BL	BL	BL	BL	BL
(13)	Black soft plastic(washer, cable gland, converter) [1]-[6][8]-[13]	BL	BL	BL	BL	BL
(14)	Black soft plastic(drivepipe, cable gland, converter) [1]-[6][8]-[13]	BL	BL	BL	BL	BL
(15)	Black plastic(shell, converter) [1]-[14]	BL	BL	BL	BL	BL
(16)	Translucent soft plastic(button, shell, converter) [1]-[14]	BL	BL	BL	BL	BL
(17)	Orange soft plastic(seal ring, shell, converter) [1]-[14]	BL	BL	BL	BL	BL
(18)	Clear laminated black/blue/green printed silvery plastic with adhesive(label, shell, converter) [1]-[14]	BL	BL	BL	BL	BL
(19)	Black plastic(stopper, shell, converter) [1]-[14]	BL	BL	BL	BL	BL
(20)	Black plastic(nut, stopper, shell, converter) [1]-[14]	BL	BL	BL	BL	BL
(21)	Translucent soft plastic(washer, stopper, shell, converter) [1]-[14]	BL	BL	BL	BL	BL
(22)	Silvery metal(screw, shell, converter) [1]-[14]	BL	BL	BL	BL	---
(23)*1	Golden metal(antenna connector, converter) [1]-[14]	OL (11606)	BL	BL	BL	---
(24)	Silvery solder(antenna connector, converter) [1]-[14]	BL	BL	BL	BL	---

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(25)*1	Golden metal(nut, antenna connector, converter) [1]-[14]	OL (13874)	BL	BL	BL	---
(26)	Golden metal(big washer, antenna connector, converter) [1]-[14]	BL	BL	BL	BL	---
(27)	Golden metal(small washer, antenna connector, converter) [1]-[14]	BL	BL	BL	BL	---
(28)*1	Golden metal(pin, antenna connector, converter) [1]-[14]	OL (6767)	BL	BL	BL	---
(29)	White plastic(insulator, antenna connector, converter) [1]-[14]	BL	BL	BL	BL	BL
(30)	Translucent soft plastic(washer, antenna connector, converter) [1]-[14]	BL	BL	BL	BL	BL
(31)	Grey printed black plastic(heat-shrink tubing, connecting cable, antenna connector, converter) [1]-[14]	BL	BL	BL	BL	BL
(32)	Black plastic(cable jacket, connecting cable, antenna connector, converter) [1]-[13]	BL	BL	BL	BL	BL
(33)	Clear plastic(wire jacket, connecting cable, antenna connector, converter) [1]-[13]	BL	BL	BL	BL	BL
(34)	Silvery metal(wire core, connecting cable, antenna connector, converter) [1]-[13]	BL	BL	BL	BL	---
(35)	Silvery metal(shielding net, connecting cable, antenna connector, converter) [1]-[13]	BL	BL	BL	BL	---
(36)	Golden metal(cover, plug, connecting cable, antenna connector, converter) [1]-[14]	BL	BL	BL	BL	---
(37)	Golden metal(contact plate, plug, connecting cable, antenna connector, converter) [1]-[14]	BL	BL	BL	BL	---
(38)	Black plastic(insulator, plug, connecting cable, antenna connector, converter) [1]-[14]	BL	BL	BL	BL	BL
(39)	Black PVC(wire jacket, connecting cable, battery, converter) [1]-[14]	BL	BL	BL	BL	BL
(40)	Red PVC(wire jacket, connecting cable, battery, converter) [1]-[14]	BL	BL	BL	BL	BL
(41)	Silvery metal(wire core, connecting cable, battery, converter) [1]-[14]	BL	BL	BL	BL	---
(42)	Silvery metal(contact plate, plug, connecting cable, battery, converter) [1]-[14]	BL	BL	BL	BL	---
(43)	White plastic(plug, connecting cable, battery, converter) [1]-[14]	BL	BL	BL	BL	BL
(44)	Clear laminated black/red/olive green printed white plastic with adhesive(label, battery, converter) [1]-[14]	BL	BL	BL	BL	BL
(45)	Black PVC(outer sleeve, battery, converter) [1]-[14]	BL	BL	BL	BL	BL
(46)	Black PVC(inner sleeve, battery, converter) [1]-[14]	BL	BL	BL	BL	BL
(47)	Black paper with adhesive(pad, battery, converter) [1]-[14]	BL	BL	BL	BL	BL
(48)	White paper with adhesive(tape, battery, converter) [1]-[14]	BL	BL	BL	BL	BL
(49)	Silvery metal(connecting plate, battery, converter) [1]-[14]	BL	BL	BL	BL	---
(50)	Silvery solder(connecting plate, battery, converter) [1]-[14]	BL	BL	BL	BL	---

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(51)	Silvery metal(screw, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(52)*1	Silvery metal(stud, main PCB, converter) [1]-[14]	OL (8908)	BL	BL	BL	---
(53)	Orange plastic with adhesive(washer, stud, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(54)*	White printed blue coated beige plastic with coppery metal(main PCB, converter) [1]-[14]	BL	BL	BL	BL	X
(55)	Silvery solder(main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(56)	Silvery metal(screw, big connector, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(57)	Silvery metal(contact plate, big connector, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(58)*1	Silvery metal(base, big connector, main PCB, converter) [1]-[14]	OL (12645)	BL	BL	BL	---
(59)	Green plastic(cover, big connector, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(60)	Black plastic(cover, small connector, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(61)	Golden plated silvery metal(pin, small connector, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(62)	Silvery metal(pin, big pin header, main PCB, converter) [14]	BL	BL	BL	BL	---
(63)	Black plastic(pin holder, big pin header, main PCB, converter) [14]	BL	BL	BL	BL	BL
(64)	Yellow plastic(cover, small pin header, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(65)	Black plastic(pin holder, small pin header, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(66)	Silvery metal(pin, small pin header, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(67)	Silvery metal(contact plate, small pin header, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(68)	Black plastic(pin holder, medium pin header, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(69)	Silvery metal(pin, medium pin header, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(70)	Silvery metal(pin, big socket, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(71)	White plastic(big socket, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(72)	White plastic(small socket, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(73)	Silvery metal(pin, small socket, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(74)	Silvery metal(cover, slide switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(75)	Black plastic(base, slide switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(76)	White plastic(slider, slide switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(77)	Silvery metal(slider, slide switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(78)	Silvery metal(contact plate, slide switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(79)	Silvery metal(button holder, big key switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(80)	Black plastic(button, big key switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(81)	Black plastic(base, big key switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(82)	Silvery metal(metal dome, big key switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(83)	Silvery metal(contact plate, big key switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(84)	Silvery metal(cover, small key switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(85)	Black plastic(button, small key switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(86)	Black plastic(base, small key switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(87)	Silvery metal(metal dome, small key switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(88)	Silvery metal(contact plate, small key switch, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(89)	Silvery metal(pin, LED, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(90)	Clear body(LED, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(91)	Brown printed yellow body(capacitor, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(92)	Black body(IC, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(93)	Golden/black body(SMD fuse, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(94)	Black body(big SMD diode, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(95)	Black body(medium SMD diode, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(96)	Black body(small SMD diode, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(97)	Black body with black glue(SMD inductor, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(98)	Black/white body(SMD resistor, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(99)	Brown body(SMD capacitor, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(100)	Silvery solder(small PCB, main PCB, converter) [1]-[14]	BL	BL	BL	BL	---
(101)*	White printed green coated beige plastic with coppery metal(small PCB, main PCB, converter) [1]-[14]	BL	BL	BL	BL	X
(102)	Black body(big IC, small PCB, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(103)	Black body(small IC, small PCB, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(104)	Silvery body(crystal oscillator, small PCB, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(105)	Black body(SMD resistor, small PCB, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(106)	Brown body(SMD capacitor, small PCB, main PCB, converter) [1]-[14]	BL	BL	BL	BL	BL
(107)*	White printed black coated beige plastic with coppery metal(big PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	X
(108)	Silvery solder(big PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	---
(109)	Black body(SMD resistor, big PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	BL

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(110)	Brown body(SMD capacitor, big PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	BL
(111)	Silvery solder(small PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	---
(112)*	White printed red coated beige plastic with coppery metal(small PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	X
(113)	White plastic(base, antenna socket, small PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	BL
(114)	Golden metal(cover, antenna socket, small PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	---
(115)	Golden metal(pin, antenna socket, small PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	---
(116)	Black body(big IC, small PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	BL
(117)	Black body(small IC, small PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	BL
(118)	Silvery body(big crystal oscillator, small PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	BL
(119)	Silvery body(small crystal oscillator, small PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	BL
(120)	Black body with black glue(SMD inductor, small PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	BL
(121)	Black body(SMD resistor, small PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	BL
(122)	Brown body(SMD capacitor, small PCB, network card, converter) [1]-[14]	BL	BL	BL	BL	BL
(123)	Reddish brown soft plastic(cable jacket, main cable) [2]	BL	BL	BL	BL	BL
(124)	Black plastic(wire jacket, main cable) [2]	BL	BL	BL	BL	BL
(125)	Red plastic(wire jacket, main cable) [2]	BL	BL	BL	BL	BL
(126)	Yellow plastic(wire jacket, main cable) [2]	BL	BL	BL	BL	BL
(127)	Silvery metal(wire core, main cable) [2]	BL	BL	BL	BL	---
(128)	Silvery solder(terminal, wire core, main cable) [2]	BL	BL	BL	BL	---
(129)	Silvery metal(shell, probe) [2]	BL	BL	BL	BL	---
(130)	Black dry glue(glue filling, probe) [2]	BL	BL	BL	BL	BL
(131)	Black body(sensor, probe) [2]	BL	BL	BL	BL	BL
(132)	Black plastic(heat-shrinkable tubing, pin, sensor, probe) [2]	BL	BL	BL	BL	BL
(133)	Translucent plastic(drivepipe, pin, sensor, probe) [2]	BL	BL	BL	BL	BL
(134)	Silvery metal(pin, sensor, probe) [2]	BL	BL	BL	BL	---
(135)	Silvery solder(pin, sensor, probe) [2]	BL	BL	BL	BL	---
(136)	Grey printed black plastic(heat-shrinkable tubing, main cable) [3]	BL	BL	BL	BL	BL
(137)	Black soft plastic(cable jacket, main cable) [3]	BL	BL	BL	BL	BL
(138)	Black plastic(wire jacket, main cable) [3]	BL	BL	BL	BL	BL
(139)	White plastic(wire jacket, main cable) [3]	BL	BL	BL	BL	BL

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(140)	Dark red plastic(sleeve, shielding net, main cable) [3]	BL	BL	BL	BL	BL
(141)	Silvery metal(shielding net, main cable) [3]	BL	BL	BL	BL	---
(142)	Silvery metal(wire core, main cable) [3]	BL	BL	BL	BL	---
(143)	Silvery solder(terminal, wire core, main cable) [3]	BL	BL	BL	BL	---
(144)	Black soft plastic(shell, probe) [3]	BL	BL	BL	BL	BL
(145)	Silvery metal(inner shell, probe) [3]	BL	BL	BL	BL	---
(146)	Black dry glue(glue filling, probe) [3]	BL	BL	BL	BL	BL
(147)	White soft plastic(sleeve, sensor, probe) [3]	BL	BL	BL	BL	BL
(148)	Black body(sensor, probe) [3]	BL	BL	BL	BL	BL
(149)	Clear plastic(drivepipe, pin, sensor, probe) [3]	BL	BL	BL	BL	BL
(150)	Silvery metal(pin, sensor, probe) [3]	BL	BL	BL	BL	---
(151)	Silvery solder(pin, sensor, probe) [3]	BL	BL	BL	BL	---
(152)	Black PVC(short cable jacket, main cable) [4]	BL	BL	BL	BL	BL
(153)	White PVC(wire jacket, short cable, main cable) [4]	BL	BL	BL	BL	BL
(154)	Green PVC(wire jacket, short cable, main cable) [4]	BL	BL	BL	BL	BL
(155)	Red PVC(wire jacket, short cable, main cable) [4]	BL	BL	BL	BL	BL
(156)	Yellow PVC(wire jacket, short cable, main cable) [4]	BL	BL	BL	BL	BL
(157)	Silvery metal(wire core, short cable, main cable) [4]	BL	BL	BL	BL	---
(158)	Silvery solder(terminal, wire core, short cable, main cable) [4]	BL	BL	BL	BL	---
(159)	Grey printed black PVC(long cable jacket, main cable) [4][5]	BL	BL	BL	BL	BL
(160)	Black PVC(wire jacket, long cable, main cable) [4][5]	BL	BL	BL	BL	BL
(161)	Red PVC(wire jacket, long cable, main cable) [4][5]	BL	BL	BL	BL	BL
(162)	Yellow PVC(wire jacket, long cable, main cable) [4][5]	BL	BL	BL	BL	BL
(163)	Silvery metal(wire core, long cable, main cable) [4][5]	BL	BL	BL	BL	---
(164)	Black PVC(splitter, main cable) [4]	BL	BL	BL	BL	BL
(165)*	White printed green coated beige plastic with coppery metal(PCB, splitter, main cable) [4]	BL	BL	BL	BL	X
(166)	Silvery solder(PCB, splitter, main cable) [4]	BL	BL	BL	BL	---
(167)	Silvery metal(shell, probe) [4]	BL	BL	BL	BL	---
(168)	White soft plastic(sleeve, probe) [4]	BL	BL	BL	BL	BL
(169)	Reddish brown soft plastic(sleeve, probe) [4]	BL	BL	BL	BL	BL

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(170)	Black dry glue(glue filling, probe) [4]	BL	BL	BL	BL	BL
(171)	Black body(sensor, probe) [4]	BL	BL	BL	BL	BL
(172)	Black plastic(heat-shrinkable tubing, pin, sensor, probe) [4]	BL	BL	BL	BL	BL
(173)	Translucent plastic(drivepipe, pin, sensor, probe) [4]	BL	BL	BL	BL	BL
(174)	Silvery metal(pin, sensor, probe) [4]	BL	BL	BL	BL	---
(175)	Silvery solder(pin, sensor, probe) [4]	BL	BL	BL	BL	---
(176)	Black PVC(short cable jacket, main cable) [5]	BL	BL	BL	BL	BL
(177)	Black PVC(wire jacket, short cable, main cable) [5]	BL	BL	BL	BL	BL
(178)	White PVC(wire jacket, short cable, main cable) [5]	BL	BL	BL	BL	BL
(179)	Green PVC(wire jacket, short cable, main cable) [5]	BL	BL	BL	BL	BL
(180)	Red PVC(wire jacket, short cable, main cable) [5]	BL	BL	BL	BL	BL
(181)	Yellow PVC(wire jacket, short cable, main cable) [5]	BL	BL	BL	BL	BL
(182)	Coppery metal(wire core, short cable, main cable) [5]	BL	BL	BL	BL	---
(183)	Silvery solder(terminal, wire core, short cable, main cable) [5]	BL	BL	BL	BL	---
(184)	Black PVC(splitter, main cable) [5]	BL	BL	BL	BL	BL
(185)*	White printed green coated beige plastic with coppery metal(PCB, splitter, main cable) [5]	BL	BL	BL	BL	X
(186)	Silvery solder(PCB, splitter, main cable) [5]	BL	BL	BL	BL	---
(187)	Black plastic(sleeve, probe) [5]	BL	BL	BL	BL	BL
(188)	Grey printed black plastic(heat-shrinkable tubing, main cable) [6]	BL	BL	BL	BL	BL
(189)	Grey printed black PVC(cable jacket, main cable) [6]	BL	BL	BL	BL	BL
(190)	Black PVC(wire jacket, main cable) [6]	BL	BL	BL	BL	BL
(191)	Red PVC(wire jacket, main cable) [6]	BL	BL	BL	BL	BL
(192)	Green PVC(wire jacket, main cable) [6]	BL	BL	BL	BL	BL
(193)	Yellow PVC(wire jacket, main cable) [6]	BL	BL	BL	BL	BL
(194)	Silvery metal(wire core, main cable) [6]	BL	BL	BL	BL	---
(195)	Silvery solder(terminal, wire core, main cable) [6]	BL	BL	BL	BL	---
(196)	White plastic(screwed pipe, cable gland, probe) [6]	BL	BL	BL	BL	BL
(197)	White plastic(cap, cable gland, probe) [6]	BL	BL	BL	BL	BL
(198)	Brown body(SMD capacitor, small PCB, PCB “TS61”, converter) [14]	BL	BL	BL	BL	BL
(199)*1	Golden metal(nut, probe) [6]	OL (26062)	BL	BL	BL	---

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(200)	White plastic(shell, probe) [6]	BL	BL	BL	BL	BL
(201)	White plastic(inner shell, probe) [6]	BL	BL	BL	BL	BL
(202)	Black dry glue(glue filling, probe) [6]	BL	BL	BL	BL	BL
(203)	Clear plastic(sleeve, PCB, probe) [6]	BL	BL	BL	BL	BL
(204)	White dry glue(PCB, probe) [6]	BL	BL	BL	BL	BL
(205)*	White printed red coated beige plastic with coppery metal(PCB, probe) [6]	BL	BL	BL	BL	X
(206)	Silvery solder(PCB, probe) [6]	BL	BL	BL	BL	---
(207)	Black body(sensor, PCB, probe) [6]	BL	BL	BL	BL	BL
(208)	Black body(SMD resistor, PCB, probe) [6]	BL	BL	BL	BL	BL
(209)	Brown body(SMD capacitor, PCB, probe) [6]	BL	BL	BL	BL	BL
(210)	Grey printed black PVC(wire jacket, connecting cable, probe) [7]	BL	BL	BL	BL	BL
(211)	Black body(SMD resistor, small PCB, PCB “TS61”, converter) [14]	BL	BL	BL	BL	BL
(212)	Black printed green PVC(wire jacket, connecting cable, probe) [7]	BL	BL	BL	BL	BL
(213)	Black printed yellow PVC(wire jacket, connecting cable, probe) [7]	BL	BL	BL	BL	BL
(214)	Silvery metal(wire core, connecting cable, probe) [7]	BL	BL	BL	BL	---
(215)	Silvery solder(terminal, wire core, connecting cable, probe) [7]	BL	BL	BL	BL	---
(216)	Black plastic(nut, probe) [7]	BL	BL	BL	BL	BL
(217)	Beige body(SMD LED, small PCB, PCB “TS61”, converter) [14]	BL	BL	BL	BL	BL
(218)	Black plastic(shell, probe) [7]	BL	BL	BL	BL	BL
(219)	White plastic(inner shell, probe) [7]	BL	BL	BL	BL	BL
(220)	Black dry glue(glue filling, probe) [7]	BL	BL	BL	BL	BL
(221)	Black body(SMD triode, small PCB, PCB “TS61”, converter) [14]	BL	BL	BL	BL	BL
(222)	White dry glue(PCB, probe) [7]	BL	BL	BL	BL	BL
(223)*	White printed red coated beige plastic with coppery metal(PCB, probe) [7]	BL	BL	BL	BL	X
(224)	Silvery solder(PCB, probe) [7]	BL	BL	BL	BL	---
(225)	Black body(sensor, PCB, probe) [7]	BL	BL	BL	BL	BL
(226)	Black body(SMD resistor, PCB, probe) [7]	BL	BL	BL	BL	BL
(227)	Brown body(SMD capacitor, PCB, probe) [7]	BL	BL	BL	BL	BL
(228)	Grey printed black plastic(heat-shrinkable tubing, main cable) [8][9][10]	BL	BL	BL	BL	BL
(229)	Grey printed black PVC(cable jacket, main cable) [8][9][10]	BL	BL	BL	BL	BL
(230)	Black PVC(wire jacket, main cable) [8][9][10]	BL	BL	BL	BL	BL

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(231)	Red PVC(wire jacket, main cable) [8][9][10]	BL	BL	BL	BL	BL
(232)	Yellow PVC(wire jacket, main cable) [8][9][10]	BL	BL	BL	BL	BL
(233)	Coppery metal(wire core, main cable) [8][9][10]	BL	BL	BL	BL	---
(234)	Black body(small IC, small PCB, PCB "TS61", converter) [14]	BL	BL	BL	BL	BL
(235)	Silvery metal(screw, shell, probe) [8]	BL	BL	BL	BL	---
(236)	Black plastic(shell, probe) [8]	BL	BL	BL	BL	BL
(237)	Clear laminated black/blue/green printed silvery plastic with adhesive(label, shell, probe) [8]	BL	BL	BL	BL	BL
(238)	Black body(big IC, small PCB, PCB "TS61", converter) [14]	BL	BL	BL	BL	BL
(239)	White printed green coated beige plastic with coppery metal(small PCB, PCB "TS61", converter) [14]	BL	BL	BL	BL	BL
(240)	White plastic(impeller, probe) [8]	BL	BL	BL	BL	BL
(241)	Black magnet(magnet ring, impeller, probe) [8]	BL	BL	BL	BL	BL
(242)	Silvery metal(shaft, impeller, probe) [8]	BL	BL	BL	BL	---
(243)	Silvery solder(small PCB, PCB "TS61", converter) [14]	BL	BL	BL	BL	---
(244)*	Green coated beige plastic with coppery metal(PCB, probe) [8][9][10]	BL	BL	BL	BL	X
(245)	Black body(sensor, PCB, probe) [8][9][10]	BL	BL	BL	BL	BL
(246)	Silvery metal(pin, sensor, PCB, probe) [8][9][10]	BL	BL	BL	BL	---
(247)	Silvery metal(screw, shell, probe) [9]	BL	BL	BL	BL	---
(248)	Clear laminated black/blue/dark green printed silvery plastic with adhesive(label, shell, probe) [9]	BL	BL	BL	BL	BL
(249)	Black plastic(shell, probe) [9]	BL	BL	BL	BL	BL
(250)	Silvery metal(shielding case, small PCB, PCB "TS61", converter) [14]	BL	BL	BL	BL	---
(251)	Brown body(SMD capacitor, PCB "TS61", converter) [14]	BL	BL	BL	BL	BL
(252)	Black dry glue(PCB, probe) [9]	BL	BL	BL	BL	BL
(253)	White plastic(impeller, probe) [9]	BL	BL	BL	BL	BL
(254)	Black magnet(magnet ring, impeller, probe) [9]	BL	BL	BL	BL	BL
(255)	Silvery metal(shaft, impeller, probe) [9]	BL	BL	BL	BL	---
(256)	Silvery metal(screw, shell, probe) [10]	BL	BL	BL	BL	---
(257)	Clear laminated black/blue/dark green printed silvery plastic with adhesive(label, shell, probe) [10]	BL	BL	BL	BL	BL
(258)	Black plastic(shell, probe) [10]	BL	BL	BL	BL	BL
(259)	Black soft plastic(thick seal ring, probe) [10]	BL	BL	BL	BL	BL

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(260)	Black soft plastic(thin seal ring, probe) [10]	BL	BL	BL	BL	BL
(261)	Black dry glue(shell, probe) [10]	BL	BL	BL	BL	BL
(262)	White plastic(impeller, probe) [10]	BL	BL	BL	BL	BL
(263)	Black magnet(magnet ring, impeller, probe) [10]	BL	BL	BL	BL	BL
(264)	Silvery metal(shaft, impeller, probe) [10]	BL	BL	BL	BL	---
(265)	Yellow PVC(cable jacket, main cable) [11]	BL	BL	BL	BL	BL
(266)	Brown PVC(wire jacket, main cable) [11]	BL	BL	BL	BL	BL
(267)	Blue PVC(wire jacket, main cable) [11]	BL	BL	BL	BL	BL
(268)	Coppery metal(wire core, main cable) [11]	BL	BL	BL	BL	---
(269)	Silvery solder(terminal, wire core, main cable) [11]	BL	BL	BL	BL	---
(270)	Yellow PVC(wire jacket, thick cable, twisted pair cable) [11]	BL	BL	BL	BL	BL
(271)	Coppery metal(wire core, thick cable, twisted pair cable) [11]	BL	BL	BL	BL	---
(272)	Black plastic(wire jacket, thin cable, twisted pair cable) [11]	BL	BL	BL	BL	BL
(273)	Silvery metal(wire core, thin cable, twisted pair cable) [11]	BL	BL	BL	BL	---
(274)	Black plated silvery metal(nut, male plug) [11]	BL	BL	BL	BL	---
(275)	Black PVC(holder, male plug/female plug) [11]	BL	BL	BL	BL	BL
(276)	Black plastic(cover, male plug) [11]	BL	BL	BL	BL	BL
(277)	White plastic(sleeve, pin, male plug/female plug) [11]	BL	BL	BL	BL	BL
(278)	Golden metal(pin, male plug) [11]	BL	BL	BL	BL	---
(279)	Silvery solder(pin, male plug) [11]	BL	BL	BL	BL	---
(280)	Black plated silvery metal(nut, female plug) [11]	BL	BL	BL	BL	---
(281)	Black plastic(cover, female plug) [11]	BL	BL	BL	BL	BL
(282)*1	Golden metal(pin, female plug) [11]	OL (12017)	BL	BL	BL	---
(283)	Silvery solder(pin, female plug) [11]	BL	BL	BL	BL	---
(284)	Silvery metal(corrugated pipe, main cable) [12]	BL	BL	BL	BL	---
(285)*1	Silvery metal(end cap, corrugated pipe, main cable) [12]	OL (14290)	BL	BL	BL	---
(286)	Grey printed black PVC(cable jacket, main cable) [12]	BL	BL	BL	BL	BL
(287)	Black PVC(wire jacket, main cable) [12]	BL	BL	BL	BL	BL
(288)	Red PVC(wire jacket, main cable) [12]	BL	BL	BL	BL	BL
(289)	Coppery metal(wire core, main cable) [12]	BL	BL	BL	BL	---

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(290)	Silvery solder(terminal, wire core, main cable) [12]	BL	BL	BL	BL	---
(291)	Silvery metal(shell, magnetic patch) [12]	BL	BL	BL	BL	---
(292)	Black magnet(inner, magnetic patch) [12]	BL	BL	BL	BL	BL
(293)	Black dry glue(glue filling, magnetic patch/probe) [12]	BL	BL	BL	BL	BL
(294)	Translucent dry glue(glue filling, probe) [12]	BL	BL	BL	BL	BL
(295)	Black plastic(heat-shrinkable tubing, switch, probe) [12]	BL	BL	BL	BL	BL
(296)	Clear blue glass(cover, switch, probe) [12]	BL	BL	BL	BL	BL
(297)	Golden metal(pin, switch, probe) [12]	BL	BL	BL	BL	---
(298)	Black body(SMD resistor, PCB “TS61”, converter) [14]	BL	BL	BL	BL	BL
(299)	Grey printed black PVC(cable jacket, main cable) [13]	BL	BL	BL	BL	BL
(300)	Black PVC(wire jacket, main cable) [13]	BL	BL	BL	BL	BL
(301)	White PVC(wire jacket, main cable) [13]	BL	BL	BL	BL	BL
(302)	Red PVC(wire jacket, main cable) [13]	BL	BL	BL	BL	BL
(303)	Orange PVC(wire jacket, main cable) [13]	BL	BL	BL	BL	BL
(304)	Green PVC(wire jacket, main cable) [13]	BL	BL	BL	BL	BL
(305)	Yellow PVC(wire jacket, main cable) [13]	BL	BL	BL	BL	BL
(306)	Silvery metal(wire core, main cable) [13]	BL	BL	BL	BL	---
(307)	Silvery solder(terminal, wire core, main cable) [13]	BL	BL	BL	BL	---
(308)	Black plastic(slotted stopper, shell, converter) [14]	BL	BL	BL	BL	BL
(309)	Black plastic(nut, slotted stopper, shell, converter) [14]	BL	BL	BL	BL	BL
(310)	Grey plastic(cable jacket, connecting cable, antenna connector, converter) [14]	BL	BL	BL	BL	BL
(311)	Clear plastic(wire jacket, connecting cable, antenna connector, converter) [14]	BL	BL	BL	BL	BL
(312)	Silvery metal(wire core, connecting cable, antenna connector, converter) [14]	BL	BL	BL	BL	---
(313)	Silvery metal(shielding net, connecting cable, antenna connector, converter) [14]	BL	BL	BL	BL	---
(314)	White/black coated orange plastic with adhesive(label, shielding case, small PCB, main PCB, converter) [14]	BL	BL	BL	BL	BL
(315)	Silvery metal(shielding case, small PCB, main PCB, converter) [14]	BL	BL	BL	BL	---
(316)	Silvery solder(PCB “TS61”, converter) [14]	BL	BL	BL	BL	---
(317)*	White printed green coated beige plastic with coppery metal(PCB “TS61”, converter) [14]	BL	BL	BL	BL	X
(318)	Black body(IC, PCB “TS61”, converter) [14]	BL	BL	BL	BL	BL
(319)	Black body(sensor, PCB “TS61”, converter) [14]	BL	BL	BL	BL	BL

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(320)	Silvery metal(pin, sensor, PCB "TS61" , converter) [14]	BL	BL	BL	BL	---

Note:
[1]SN50v3-LB; [2]D20-LB; [3]D20S-LB; [4]D22-LB; [5]D23-LB; [6]S31-LB; [7]S31B-LB; [8]SW3L-LB-004; [9]SW3L-LB-006; [10]SW3L-LB-010; [11]WL03A-LB; [12]DS03A-LB; [13]CPL03-LB; [14]TS01-LB

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. 2,5,23,25,28,52,58,199,282,285 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.

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≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

Note:
BL = Below Limit
OL = Over Limit
IN = 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.

A.2 Wet Chemical Testing

A.2.1 PBBs & PBDEs content

Test method: IEC 62321-6:2015

Item	Unit	MDL	Result					Limit
			(54)	(101)	(107)	(112)	(165)	
Monobromobiphenyl (MonoBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromobiphenyl(DiBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromobiphenyl(TriBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromobiphenyl(PentaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromobiphenyl(HexaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromobiphenyl (HeptaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromobiphenyl(OctaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromobiphenyl(NonaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromobiphenyl(DecaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-

Item	Unit	MDL	Result					Limit
			(54)	(101)	(107)	(112)	(165)	
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**	**Pass**	/

Item	Unit	MDL	Result					Limit
			(185)	(205)	(223)	(244)	(317)	
Monobromobiphenyl (MonoBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromobiphenyl(DiBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromobiphenyl(TriBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromobiphenyl(PentaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromobiphenyl(HexaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromobiphenyl (HeptaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromobiphenyl(OctaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromobiphenyl(NonaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromobiphenyl(DecaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-

Item	Unit	MDL	Result					Limit
			(185)	(205)	(223)	(244)	(317)	
Octabromodiphenyl ether (OctaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/kg	50	N.D.	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**	**Pass**	/

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

Test method: IEC 62321-8:2017

Item	Unit	MDL	Result						Limit
			(1)+(10)+(11)	(8)+(9)+(21)	(12)+(15)+(19)	(13)+(14)+(16)	(17)+(18)	(20)+(59)	
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
			(29)+(30)+(31)	(32)+(33)+(38)	(39)	(40)	(43)+(44)+(47)	(45)	
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
			(46)	(48)+(53)+(54)	(60)+(63)+(64)	(65)+(68)+(71)	(72)+(75)+(76)	(80)+(81)+(85)	
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
			(86)+(90)+(91)	(92)+(93)+(94)	(95)+(96)+(97)	(101)+(102)+(103)	(104)+(107)+(112)	(113)+(116)+(117)	
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
			(118)+(119)+(120)	(123)+(137)	(124)+(125)+(126)	(130)+(131)+(132)	(133)+(136)+(140)	(138)+(139)	
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
			(144)+(168)+(169)	(146)+(147)+(148)	(149)+(165)+(170)	(152)	(153)	(154)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	307	347	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	76	N.D.	N.D.	142	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
			(155)	(156)	(159)	(160)	(161)	(162)	
Dibutyl Phthalate(DBP)	mg/kg	30	246	279	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
			(164)	(171)+(172) +(173)	(176)	(177)	(178)	(179)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	432	379	740	666	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.	83	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
			(180)	(181)	(184)	(185)+(188) +(202)	(187)+(196) +(197)	(189)	
Dibutyl Phthalate(DBP)	mg/kg	30	267	780	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.	41	N.D.	39	38	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
			(190)	(191)	(192)	(193)	(200)+(201) +(216)	(203)+(204) +(205)	
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	35	196	N.D.	88	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
			(207)+(220)+(222)	(210)	(212)	(213)	(217)+(221)+(234)	(218)+(219)+(236)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	253	117	434	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.	77	65	109	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
			(223)+(225)+(228)	(229)	(230)	(231)	(232)	(237)+(244)+(245)	
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
			(238)+(239)+(319)	(240)+(249)+(253)	(248)+(252)+(257)	(258)+(262)+(276)	(259)+(260)	(261)+(277)+(295)	
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.	298	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
			(265)	(266)	(267)	(270)	(272)	(275)	
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.	36	N.D.	41	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
			(281)+(308)+(309)	(286)	(287)	(288)	(293)+(294)	(299)	
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	41	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
			(300)	(301)	(302)	(303)	
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**	/

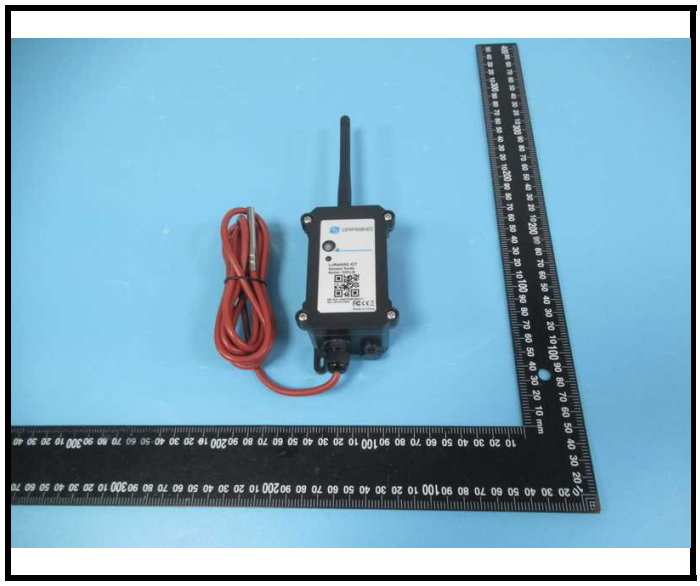
Item	Unit	MDL	Result				Limit
			(304)	(305)	(310)+(311)	(314)+(317)+(318)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	**Pass**	**Pass**	**Pass**	**Pass**	/

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.

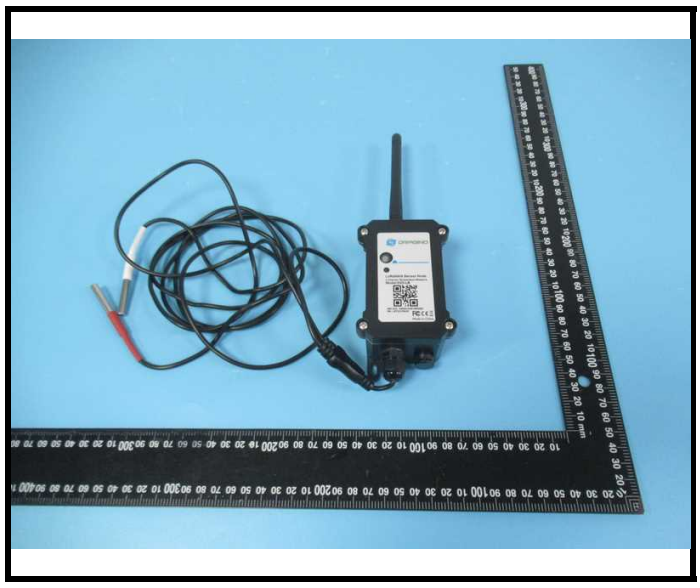
****

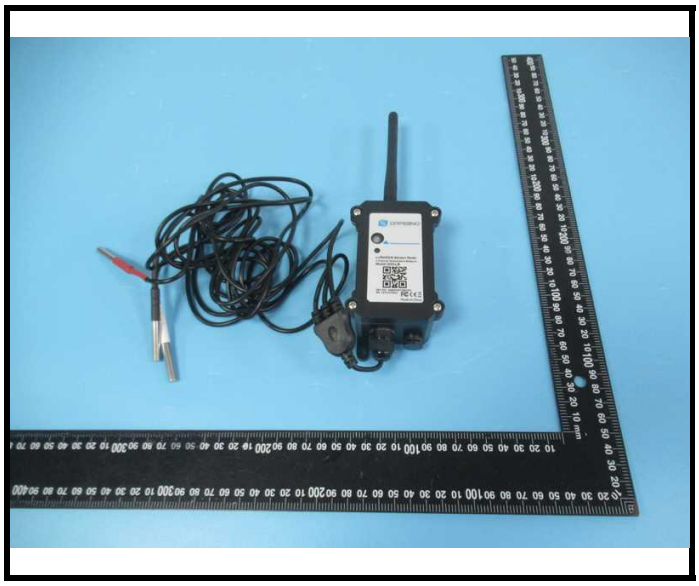
Photograph of Sample

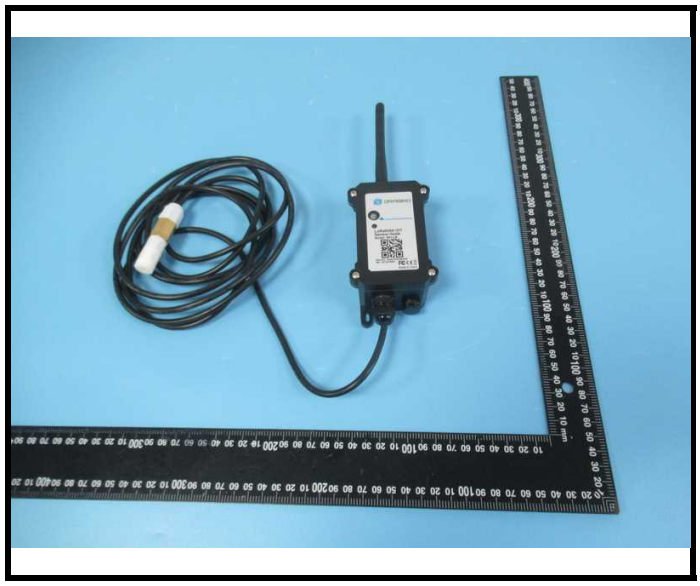


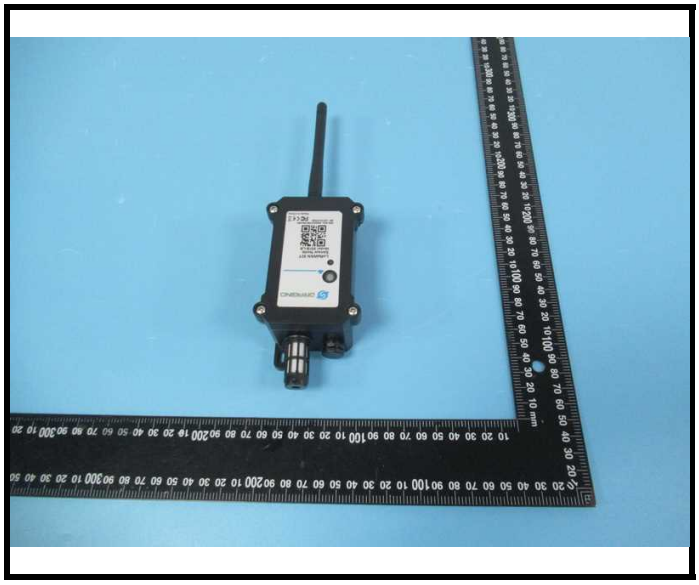








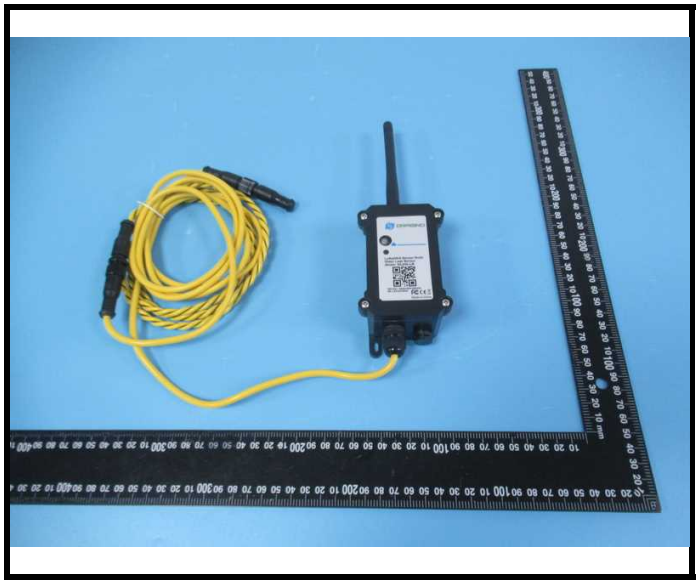


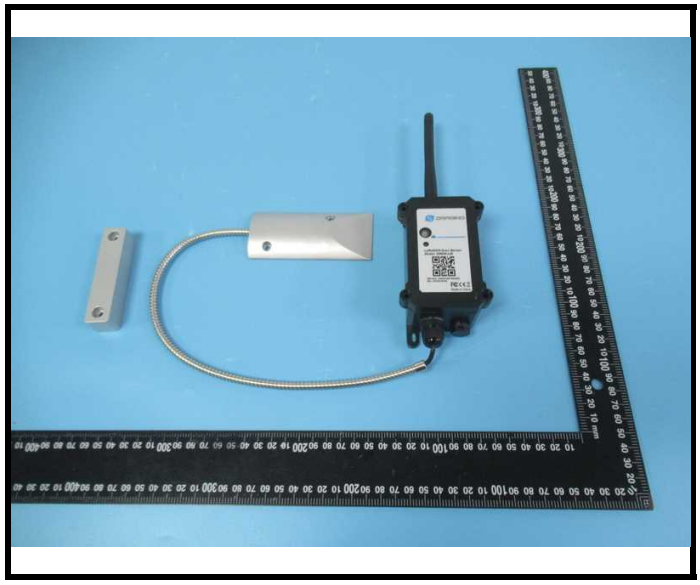


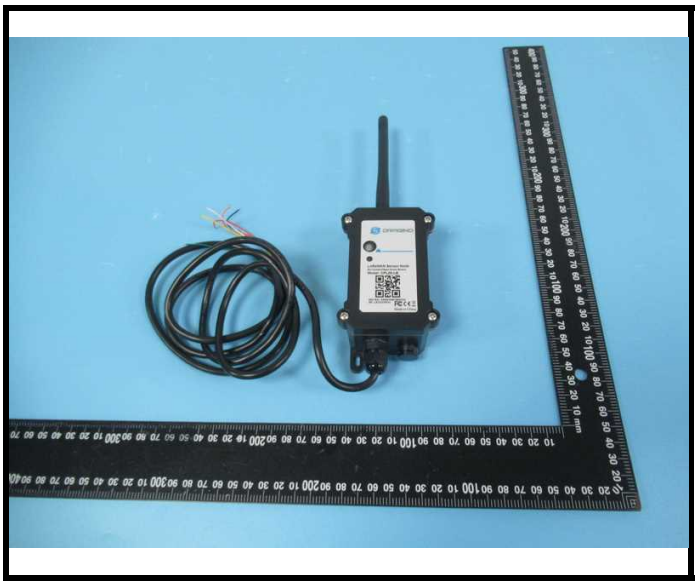














BACL authenticate the photo on original report only

Statement:

1.This report cannot be reproduced except in full, without prior written approval of the Company.
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 ***