

Test Report No.:

**1160037865a 001**

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**Client:**

**Zhejiang Uniview Technologies Co., Ltd.**

1-3/F Area A and 2/F Area B, Building 2;1-11/F South Tower,  
Building 10, 88 Jiangling Road, Xixing Town, Binjiang District,  
Hangzhou City

**Test item(s):**

IP Camera

**Test Model No(s):**

IPC2122SR3-UPF40-C

**Reference Style No(s).**

IPC2122SR3-PF40-C, IPC2122SR3-PF60-C,IPC2124SR3-PF40-C  
IPC2124SR3-PF60-C,IPC2122SR3-UPF40-C,  
IPC2122SRa-xxxxxxx-yyy-yyyy-zzz  
IPC2124SRa-xxxxxxx-yyy-yyyy-zzz  
IPC2122ERa-xxxxxxx-yyy-yyyy-zzz  
IPC2124ERa-xxxxxxx-yyy-yyyy-zzz

**Sample Receiving date:**

2017-07-13

**Delivery condition:**

Apparent good, Samples tested as received

**Test specification:**

**Test result:**

**Overall results according to tests performed**

- Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE) Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Bis(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP) According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU last amended by (EU) 2015/863**

**PASS**

**Other Information:**

Test period: 2017-07-17 ~ 2017-07-28

The testing items in the report were subcontracted to the lab which complied with ISO17025.

For and on behalf of  
TÜV Rheinland / CCIC (Ningbo) Co., Ltd.



2017-08-01 Xie Xianqiang Department Manager

Date Name/Position

Test result is drawn according to the kind and extent of tests performed.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

Test Report No.:

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**1. Screening Test by XRF Spectroscopy**

 Test Method: Cadmium, Lead, Mercury, Chromium, Bromine  
 -With reference to IEC 62321-3-1: 2013

Testing Period: 2017-07-17 ~ 2017-07-28

Material No.	Result (mg/kg)				
	Cd	Pb	Cr	Hg	Br
	Limit(mg/kg)				
	100	1000	Cr(VI): 1000	1000	PBB: 1000 PBDE: 1000
1(white coating )	n.d.	n.d.	n.d.	n.d.	n.d.
2(silver metal base material)	n.d.	d(^1)	n.d.	n.d.	N.A.
3(black plastic cap)	n.d.	n.d.	n.d.	n.d.	d(^1)
4(black coating)	n.d.	n.d.	n.d.	n.d.	n.d.
5(base metarila)	n.d.	d(^1)	n.d.	n.d.	N.A.
6(transparence plastic )	n.d.	n.d.	n.d.	n.d.	n.d.
7(black glue)	n.d.	n.d.	n.d.	n.d.	n.d.
8(white rubber )	n.d.	n.d.	n.d.	n.d.	n.d.
9(black foam ring )	n.d.	n.d.	n.d.	n.d.	n.d.
10(black rubber ring )	n.d.	n.d.	n.d.	n.d.	n.d.
11(black lamp cap)(LED)	n.d.	n.d.	n.d.	n.d.	d(^1)
12(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
13(soldering tin)(pins)	n.d.	d(^1)	n.d.	n.d.	N.A.
14(red wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
15(black wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
16(copper wire )	n.d.	n.d.	n.d.	n.d.	N.A.
17(metal terminals)	n.d.	n.d.	n.d.	n.d.	N.A.
18(white plastic )	n.d.	n.d.	n.d.	n.d.	d(^1)
19(aluminum substrate)	n.d.	n.d.	n.d.	n.d.	N.A.
20(white plastic )	n.d.	n.d.	n.d.	n.d.	n.d.
21(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
22(soldering tin))	n.d.	d(^1)	n.d.	n.d.	N.A.
23(led)	n.d.	n.d.	n.d.	n.d.	n.d.
24(substrate)	n.d.	n.d.	n.d.	n.d.	n.d.
25(green PCB board)	n.d.	n.d.	n.d.	n.d.	d(^1)
26(soldering tin)(PCB)	n.d.	d(^1)	n.d.	n.d.	N.A.
27(SMD resistor)	n.d.	n.d.	n.d.	n.d.	n.d.
28(SMD capacitor)	n.d.	n.d.	n.d.	n.d.	n.d.
29(black plastic button)(switch)	n.d.	n.d.	n.d.	n.d.	n.d.
30(bimetallic strip)	n.d.	n.d.	n.d.	n.d.	N.A.

Material No.	Result (mg/kg)				
	Cd	Pb	Cr	Hg	Br
	Limit(mg/kg)				
	100	1000	Cr(VI): 1000	1000	PBB: 1000 PBDE: 1000
31(metal plate)	n.d.	n.d.	n.d.	n.d.	N.A.
32(black plastic shell)	n.d.	n.d.	n.d.	n.d.	n.d.
33(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
34(IC module)	n.d.	n.d.	n.d.	n.d.	n.d.
35(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
36(yellow glue)	n.d.	n.d.	n.d.	n.d.	n.d.
37(crystal oscillator)	n.d.	n.d.	n.d.	n.d.	N.A.
38(big rectangle chip)	n.d.	n.d.	n.d.	n.d.	n.d.
39(small rectangle chip)	n.d.	n.d.	n.d.	n.d.	n.d.
40(square chip)	n.d.	n.d.	n.d.	n.d.	n.d.
41(battery contact chip)	n.d.	n.d.	n.d.	n.d.	N.A.
42(audion)	n.d.	n.d.	n.d.	n.d.	n.d.
43(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
44(black plastic)(connector)	n.d.	n.d.	n.d.	n.d.	d(^1)
45(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
46(big inductance )	n.d.	n.d.	n.d.	n.d.	N.A.
47(vernished wire )	n.d.	n.d.	n.d.	n.d.	N.A.
48(small inductance )	n.d.	n.d.	n.d.	n.d.	N.A.
49(vernished wire )	n.d.	n.d.	n.d.	n.d.	N.A.
50(yellow plastic)(connector)	n.d.	n.d.	n.d.	n.d.	d(^1)
51(brown plastic )	n.d.	n.d.	n.d.	n.d.	n.d.
52(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
53(square IC module)	n.d.	n.d.	n.d.	n.d.	n.d.
54(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
55(black PCB board)	n.d.	n.d.	n.d.	n.d.	d(^1)
56(soldering tin)(PCB)	n.d.	d(^1)	n.d.	n.d.	N.A.
57(light grey plastic )	n.d.	n.d.	n.d.	n.d.	d(^1)
58(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
59(audion)	n.d.	n.d.	n.d.	n.d.	n.d.
60(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
61(SMD resistor)	n.d.	n.d.	n.d.	n.d.	n.d.
62(SMD capacitor)	n.d.	n.d.	n.d.	n.d.	n.d.
63(black shell)(electrolytic capacitor)	n.d.	n.d.	n.d.	n.d.	n.d.
64(aluminium tube)	n.d.	n.d.	n.d.	n.d.	N.A.

Material No.	Result (mg/kg)				
	Cd	Pb	Cr	Hg	Br
	Limit(mg/kg)				
	100	1000	Cr(VI): 1000	1000	PBB: 1000 PBDE: 1000
65(inner core )	n.d.	n.d.	n.d.	n.d.	n.d.
66(black rubber)	n.d.	n.d.	n.d.	n.d.	n.d.
67(metal)(pins )	n.d.	n.d.	n.d.	n.d.	N.A.
68(yellow tape)(inductance)	n.d.	n.d.	n.d.	n.d.	d(^1)
69(magnet)	n.d.	n.d.	n.d.	n.d.	N.A.
70(vernished wire )	n.d.	n.d.	n.d.	n.d.	N.A.
71(yellow transparence film)	n.d.	n.d.	n.d.	n.d.	n.d.
72(black plastic)	n.d.	n.d.	n.d.	n.d.	n.d.
73(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
74(big IC module)	n.d.	n.d.	n.d.	n.d.	n.d.
75(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
76(SMD capacitor)	n.d.	n.d.	n.d.	n.d.	n.d.
77(magnet)(inductance)	n.d.	n.d.	n.d.	n.d.	N.A.
78(vernished wire )	n.d.	n.d.	n.d.	n.d.	N.A.
79(small IC moudle )	n.d.	n.d.	n.d.	n.d.	n.d.
80(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
81(light yellow plastic )	n.d.	n.d.	n.d.	n.d.	d(^1)
82(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
83(blue shell)(electrolytic capacitor)	n.d.	n.d.	n.d.	n.d.	n.d.
84(aluminium tube)	n.d.	n.d.	n.d.	n.d.	N.A.
85(inner core )	n.d.	n.d.	n.d.	n.d.	n.d.
86(black rubber)	n.d.	n.d.	n.d.	n.d.	n.d.
87(metal)(pins )	n.d.	n.d.	n.d.	n.d.	N.A.
88(big diode )	n.d.	n.d.	n.d.	n.d.	n.d.
89(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
90(small diode)	n.d.	n.d.	n.d.	n.d.	n.d.
91(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
92(IC module)	n.d.	n.d.	n.d.	n.d.	n.d.
93(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
94(small rectangle PCB board)	n.d.	n.d.	n.d.	n.d.	d(^1)
95(soldering tin)(PCB)	n.d.	d(^1)	n.d.	n.d.	N.A.
96(SMD resistor)	n.d.	n.d.	n.d.	n.d.	n.d.
97(SMD capacitor)	n.d.	n.d.	n.d.	n.d.	n.d.
98(small IC module)	n.d.	n.d.	n.d.	n.d.	n.d.

Material No.	Result (mg/kg)				
	Cd	Pb	Cr	Hg	Br
	Limit(mg/kg)				
	100	1000	Cr(VI): 1000	1000	PBB: 1000 PBDE: 1000
99(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
100(big IC module)	n.d.	n.d.	n.d.	n.d.	n.d.
101(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
102(grey plastic )	n.d.	n.d.	n.d.	n.d.	n.d.
103(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
104(display screen )	n.d.	n.d.	n.d.	n.d.	n.d.
105(black shell)(camera)	n.d.	n.d.	n.d.	n.d.	n.d.
106(lens)	n.d.	n.d.	n.d.	n.d.	n.d.
107(metal)(black screws)	n.d.	n.d.	d(^2)	n.d.	N.A.
108(transparence glue)	n.d.	n.d.	n.d.	n.d.	n.d.
109(black plastic pedestal)	n.d.	n.d.	n.d.	n.d.	n.d.
110(black metal pedestal)	n.d.	n.d.	n.d.	n.d.	N.A.
111(black transparence film)	n.d.	n.d.	n.d.	n.d.	n.d.
112(transparence plastic sheet)	n.d.	n.d.	n.d.	n.d.	n.d.
113(blue/red plastic sheet)	n.d.	n.d.	n.d.	n.d.	n.d.
114(silver metal holder)	n.d.	n.d.	n.d.	n.d.	N.A.
115(black plastic holder)	n.d.	n.d.	n.d.	n.d.	n.d.
116(vernished wire )	n.d.	n.d.	n.d.	n.d.	N.A.
117(soldering tin)	n.d.	d(^1)	n.d.	n.d.	N.A.
118(magnet)	n.d.	n.d.	n.d.	n.d.	N.A.
119(black plastic )	n.d.	n.d.	n.d.	n.d.	n.d.
120(red wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
121(black wire sheath)	n.d.	n.d.	n.d.	n.d.	d(^1)
122(copper wire )	n.d.	n.d.	n.d.	n.d.	N.A.
123(metal terminals)	n.d.	n.d.	n.d.	n.d.	N.A.
124(white plastic )	n.d.	n.d.	n.d.	n.d.	n.d.
125(black wire sheath)	n.d.	n.d.	n.d.	n.d.	d(^1)
126(blue plastic sheet)	n.d.	n.d.	n.d.	n.d.	n.d.
127(white glue)	n.d.	n.d.	n.d.	n.d.	n.d.
128(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
129(white plastic )	n.d.	n.d.	n.d.	n.d.	d(^1)
130(metal terminals)	n.d.	n.d.	n.d.	n.d.	N.A.
131(red wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
132(black wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.

Material No.	Result (mg/kg)				
	Cd	Pb	Cr	Hg	Br
	Limit(mg/kg)				
	100	1000	Cr(VI): 1000	1000	PBB: 1000 PBDE: 1000
133(copper wire )	n.d.	n.d.	n.d.	n.d.	N.A.
134(silver metal sheet)	n.d.	n.d.	n.d.	n.d.	N.A.
135(grey foam )	n.d.	n.d.	n.d.	n.d.	n.d.
136(black rubber button)	n.d.	n.d.	n.d.	n.d.	n.d.
137(grey metal )	n.d.	d(^1)	n.d.	n.d.	N.A.
138(silver metal)	n.d.	d(^1)	n.d.	n.d.	N.A.
139(white plastic )	n.d.	n.d.	n.d.	n.d.	d(^1)
140(metal terminals)	n.d.	n.d.	n.d.	n.d.	N.A.
141(red wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
142(black wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
143(brown wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
144(white/light brown wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
145(orange wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
146(white /blue wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
147(blue wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
148(orange/white wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
149(green wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
150(white/green wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
151(copper wire )	n.d.	n.d.	n.d.	n.d.	N.A.
152(white wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
153(white glue)	n.d.	n.d.	n.d.	n.d.	n.d.
154(whtie bushing )	n.d.	n.d.	n.d.	n.d.	n.d.
155(white wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
156(beige wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
157(white plastic shell)	n.d.	n.d.	n.d.	n.d.	n.d.
158(white hard plastic )	n.d.	n.d.	n.d.	n.d.	n.d.
159(black plastic )	n.d.	n.d.	n.d.	n.d.	d(^1)
160(black plastic )	n.d.	n.d.	n.d.	n.d.	d(^1)
161(metal)(pins)	n.d.	n.d.	n.d.	n.d.	N.A.
162(light grey plastic )	n.d.	n.d.	n.d.	n.d.	d(^1)
163(transparence glue)	n.d.	n.d.	n.d.	n.d.	n.d.
164(big white wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
165(white plastic shell)	n.d.	n.d.	n.d.	n.d.	n.d.
166(metal shell)	n.d.	d(^1)	n.d.	n.d.	N.A.

Material No.	Result (mg/kg)				
	Cd	Pb	Cr	Hg	Br
	Limit(mg/kg)				
	100	1000	Cr(VI): 1000	1000	PBB: 1000 PBDE: 1000
167(contact)	n.d.	d(^1)	n.d.	n.d.	N.A.
168(soldering tin)	n.d.	d(^1)	n.d.	n.d.	N.A.
169(black plastic )	n.d.	n.d.	n.d.	n.d.	d(^1)
170(small white wire sheath)	n.d.	n.d.	n.d.	n.d.	n.d.
171(metal)(silver screws)	n.d.	n.d.	d(^2)	n.d.	N.A.
172(metal)(flat gasket)	n.d.	n.d.	n.d.	n.d.	N.A.
173(metal)(spring washer)	n.d.	n.d.	n.d.	n.d.	N.A.
174(metal)(screws)	n.d.	n.d.	d(^2)	n.d.	N.A.
175(metal)(silver screws)	n.d.	n.d.	d(^2)	n.d.	N.A.
176(metal)(silver screws)	n.d.	n.d.	d(^2)	n.d.	N.A.
177(metal)(small screws )	n.d.	n.d.	d(^2)	n.d.	N.A.
178(whitie rubber ring)	n.d.	n.d.	n.d.	n.d.	n.d.
179(big whtie rubber ring )	n.d.	n.d.	n.d.	n.d.	n.d.
180(beige plastic )	n.d.	n.d.	n.d.	n.d.	n.d.
181(light yellow plastic )	n.d.	n.d.	n.d.	n.d.	n.d.
182(metal)(silver screws)	n.d.	n.d.	d(^2)	n.d.	N.A.

**Abbreviation:**

Pb	denotes Lead
Cd	denotes Cadmium
Hg	denotes Mercury
Cr	denotes Chromium
Cr(VI)	denotes Chromium(VI)
Br	denotes Bromine
PBBs	denotes Total Polybrominated Biphenyls
PBDEs	denotes Total Polybrominated Diphenyl Ethers
<	denotes less than
N.A.	denotes Not Applicable
n.d.	denotes Not Detected
d	denotes Detected

**Remark:**

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

(^2) The Chromium (VI) content in surface layer has been confirmed with reference to IEC 62321-7-1: 2015.

**XRF Screening limits for different materials:**

Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
<b>Metallic material</b>	P≤ 50 < X ≤150 < F	P≤ 630 < X	P≤ 690 < X≤1360 < F	P≤ 520 < X≤1560 < F	NA
<b>Polymeric material</b>	P≤ 50 < X ≤150 < F	P≤ 630 < X	P≤ 690 < X≤1360 < F	P≤ 520 < X≤1560 < F	P≤ 300 < X
<b>Electronic material</b>	P≤ 50 < X ≤180 < F	P≤ 500 < X	P≤ 550 < X≤1640 < F	P≤410 < X≤1870 < F	P≤ 240 < X



## 2. Confirmation Test by Wet Chemistry

Test Method: Total Cadmium, Lead, Mercury, Chromium  
 -Ref. to IEC 62321-4: 2013 & IEC 62321-5: 2013  
 Chromium (VI)  
 - For Metal material - Ref. to IEC 62321-7-1: 2015  
 - For Plastic or Electronic material – Ref. to IEC 62321: 2008 Annex C  
 - For Leather material - Ref. to ISO 17075: 2007  
 PBBs, PBDEs – Ref. to IEC 62321-6: 2015  
 Testing Period: 2017-07-17 ~ 2017-07-28

Material list:

Material No.	Material	Color	Test Plan
			A=Test HM only B=Test FR only C=Test HM+FR
2	metal	silver	A
3	plastic	black	B
5	metal	silver	A
11	plastic	black	B
13	metal	silver	A
18	plastic	white	B
22	metal	silver	A
25	PCB	green	B
26	metal	silver	A
44	plastic	black	B
50	plastic	yellow	B
55	PCB	black	B
56	metal	silver	A
57	plastic	light grey	B
68	plastic	yellow	B
81	plastic	light yellow	B
94	PCB	black	B
95	metal	silver	A
107	metal	black	A
117	metal	silver	A
121	plastic	black	B

Material No.	Material	Color	Test Plan
			A=Test HM only B=Test FR only C=Test HM+FR
125	plastic	black	B
129	plastic	white	B
137	metal	grey	A
138	metal	silver 1	A
139	plastic	white	B
159	plastic	white	B
160	plastic	black	B
162	plastic	light grey	B
166	metal	silver	A
167	metal	silver	A
168	metal	silver	A
169	plastic	black	B
171	metal	silver	A
174	metal	silver	A
175	metal	silver	A
176	metal	silver	A
177	metal	silver	A
182	metal	silver	A

Abbreviation: HM (Heavy metal) = Cd, Pb, Hg, Cr (VI)  
 FR (Flame Retardant) = PBBs, PBDEs

**Test result:**

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

Material No.	Ppm (mg/kg)					
	Cd	Pb	Cr <sup>VI</sup>	Hg	PBBs	PBDEs
	MDL (mg/kg)					
	2	2	2	2	--(^3)	--(^3)
2	N.A.	129	N.A.	N.A.	N.A.	N.A.
3	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
5	N.A.	225	N.A.	N.A.	N.A.	N.A.
11	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
13	N.A.	N.D.	N.A.	N.A.	N.A.	N.A.
18	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
22	N.A.	134	N.A.	N.A.	N.A.	N.A.
25	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
26	N.A.	252	N.A.	N.A.	N.A.	N.A.
44	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
50	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
55	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
56	N.A.	54	N.A.	N.A.	N.A.	N.A.
57	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
68	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
81	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
94	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
95	N.A.	48	N.A.	N.A.	N.A.	N.A.
117	N.A.	76	N.A.	N.A.	N.A.	N.A.
121	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
125	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
129	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
137	N.A.	24	N.A.	N.A.	N.A.	N.A.
138	N.A.	16	N.A.	N.A.	N.A.	N.A.
139	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
159	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.

Material No.	Ppm (mg/kg)					
	Cd	Pb	Cr <sup>^</sup>	Hg	PBBs	PBDEs
	MDL (mg/kg)					
	2	2	2	2	--(^3)	--(^3)
160	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
162	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
166	N.A.	N.D.	N.A.	N.A.	N.A.	N.A.
167	N.A.	20770 <sup>[6(c)]</sup>	N.A.	N.A.	N.A.	N.A.
168	N.A.	455	N.A.	N.A.	N.A.	N.A.
169	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.

Material no.	Hexavalent Chromium Content ( $\mu\text{g}/\text{cm}^2$ ) <sup>(*)</sup>
	RL: 0.10 $\mu\text{g}/\text{cm}^2$
107	Negative
171	Negative
174	Negative
175	Negative
176	Negative
177	Negative
182	Negative

**Abbreviation:**

Pb	denotes Lead
Cd	denotes Cadmium
Hg	denotes Mercury
Cr	denotes Chromium
Cr(VI)	denotes Chromium(VI)
PBBs	denotes Total Polybrominated Biphenyls
PBDEs	denotes Total Polybrominated Diphenyl Ethers
N.D.	denotes Not Detected
MDL	denotes Method Detection Limit
N.A.	denotes Not Applicable
^	The total Chromium have been determined

**Remark:**

1. Component(s)/ materials(s) with an area of less than 2mm x 2mm will not be selected for testing according to RoHS Directive 2011/65/EU due to technical reason.
2. For the test sample does not have detail materials information provided by client, visually identical materials (e.g. wire insulation, solder points, etc.) will be considered as the same material.
3. Solder points on a printing circuit board will be examined several times based on optical anomalies or discoloration of the solder point(s) unless the solder point(s) is obviously generated automatically during production.
4. All other materials will be sampled and tested at one test point representatively.

(\*1) The total chromium content in Metal sample was found to be exceeded the maximum permissible limit (1000mg/kg). Thus, the Chromium (VI) content in surface layer have been confirmed with reference to IEC 62321-7-1: 2015 Annex.

	Chromium (VI) concentration	Qualitative result
Negative	<0.1µg/cm <sup>2</sup>	The sample is negative for Cr(VI). –The Cr(VI) concentration is below the limit of quantification. The coating is considered a non Cr(VI) based coating.
Inconclusive	≥0.1µg/cm <sup>2</sup> and ≤0.13 µg/cm <sup>2</sup>	The result is considered to be inconclusive. –Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trails for the final determination.
Positive	>0.13 µg/cm <sup>2</sup>	The sample is positive for Cr(VI). –The Cr(VI) concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

(\*2) The total chromium content in plastic sample or electronic sample was found to be exceeded the maximum permissible limit (1000mg/kg). Thus, the Chromium (VI) content have been confirmed with reference to IEC 62321: 2008 Annex C.

(\*3) The total chromium content in leather sample was found to be exceeded the maximum permissible limit (1000mg/kg). Thus, the Chromium (VI) content have been confirmed with reference to ISO 17075: 2007.

(^3) The method detection limit for each individual PBBs and individual PBDEs are:

Method Detection Limit in ppm (mg/kg)		
PBBs	Monbromobiphenyl	5
	Dibromobiphenyl	5
	Tribromobiphenyl	5
	Tetrabromobiphenyl	5
	Pentabromobiphenyl	5
	Hexabromobiphenyl	5
	Heptabromobiphenyl	5
	Octabromobiphenyl	5
	Nonabromobiphenyl	5
	Decabromobiphenyl	5
PBDEs	Monbromodiphenyl ether	5
	Dibromodiphenyl ether	5
	Tribromodiphenyl ether	5
	Tetrabromodiphenyl ether	5
	Pentabromodiphenyl ether	5
	Hexabromodiphenyl ether	5
	Heptabromodiphenyl ether	5
	Octabromodiphenyl ether	5
	Nonabromodiphenyl ether	5
	Decabromodiphenyl ether	5

6(c) Copper alloy containing up to 4 % lead by weight.

**3. BBP, DBP, DEHP, DIBP content**

Test method: Organic solvent extraction, analyzed by GCMS (Ref. to DIN EN 62321-8: 2014 (IEC 111/321/CD: 2013))

**Test result:**

	<b>BBP</b>	<b>DBP</b>	<b>DEHP</b>	<b>DIBP</b>
<b>Maximum permissible Limit (mg/kg)</b>	1000	1000	1000	1000

<b>Test No.</b>	<b>Material No.</b>	<b>(mg/kg)</b>			
		<b>BBP</b>	<b>DBP</b>	<b>DEHP</b>	<b>DIBP</b>
		<b>RL (mg/kg)</b>			
		<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>
T001	1+3+4	n.d.	n.d.	n.d.	n.d.
T002	6+11+18	n.d.	n.d.	n.d.	n.d.
T003	7	n.d.	n.d.	n.d.	n.d.
T004	8	n.d.	n.d.	n.d.	n.d.
T005	9	n.d.	n.d.	n.d.	n.d.
T006	10	n.d.	n.d.	n.d.	n.d.
T007	14+15	64	n.d.	n.d.	n.d.
T008	20+23+24	n.d.	n.d.	n.d.	n.d.
T009	25+27	n.d.	n.d.	n.d.	n.d.
T010	28+32+34	n.d.	n.d.	n.d.	n.d.
T011	36+38+39	n.d.	n.d.	n.d.	n.d.
T012	40+42	n.d.	n.d.	n.d.	n.d.
T013	44+50	n.d.	n.d.	n.d.	n.d.
T014	51+53+55	n.d.	n.d.	n.d.	n.d.
T015	57+59+61	n.d.	n.d.	n.d.	n.d.
T016	62+63	n.d.	n.d.	n.d.	n.d.
T017	65+66	n.d.	n.d.	n.d.	n.d.
T018	68+71+72	n.d.	n.d.	n.d.	n.d.
T019	74+76+79	n.d.	n.d.	n.d.	n.d.
T020	81+83	n.d.	n.d.	n.d.	n.d.
T021	85+86	n.d.	n.d.	n.d.	n.d.
T022	88+90+92	n.d.	n.d.	n.d.	n.d.
T023	94+96+97	n.d.	n.d.	n.d.	n.d.
T024	98+100	n.d.	n.d.	n.d.	n.d.
T025	102+104	n.d.	n.d.	n.d.	n.d.
T026	105+106+108	n.d.	n.d.	n.d.	n.d.
T027	109+111+112	n.d.	n.d.	n.d.	n.d.
T028	113+115	n.d.	n.d.	n.d.	n.d.
T029	119+121	n.d.	n.d.	n.d.	n.d.
T030	120	n.d.	n.d.	n.d.	n.d.
T031	124+125+126	n.d.	n.d.	n.d.	n.d.



Test No.	Material No.	(mg/kg)			
		BBP	DBP	DEHP	DIBP
		RL (mg/kg)			
		50	50	50	50
T032	127+129	n.d.	n.d.	n.d.	n.d.
T033	131+132	n.d.	n.d.	82	n.d.
T034	135+139	n.d.	n.d.	n.d.	n.d.
T035	136	n.d.	n.d.	n.d.	n.d.
T036	141	n.d.	n.d.	n.d.	n.d.
T037	142	n.d.	n.d.	n.d.	n.d.
T038	143	n.d.	n.d.	n.d.	n.d.
T039	144+146+148	n.d.	n.d.	n.d.	n.d.
T040	145	n.d.	n.d.	n.d.	n.d.
T041	147	n.d.	n.d.	n.d.	n.d.
T042	149	n.d.	n.d.	n.d.	n.d.
T043	150	n.d.	n.d.	n.d.	n.d.
T044	152	n.d.	n.d.	n.d.	n.d.
T045	153	n.d.	n.d.	n.d.	n.d.
T046	154	n.d.	n.d.	282	n.d.
T047	155	n.d.	n.d.	n.d.	n.d.
T048	156	n.d.	n.d.	n.d.	n.d.
T049	157	n.d.	n.d.	304	n.d.
T050	158	n.d.	n.d.	323	n.d.
T051	159+160+162	n.d.	n.d.	n.d.	n.d.
T052	163+169	n.d.	n.d.	n.d.	n.d.
T053	164	n.d.	n.d.	n.d.	n.d.
T054	165	n.d.	n.d.	255	n.d.
T055	170	n.d.	n.d.	95	n.d.
T056	178+179	n.d.	n.d.	n.d.	n.d.
T057	180+181	n.d.	n.d.	n.d.	n.d.

**Abbreviation:** BBP= Benzylbutyl phthalate  
 DBP= Dibutyl phthalate  
 DEHP= Bis(2-ethylhexyl) phthalate  
 DIBP= Diisobutyl phthalate  
 n.d.= Not Detected (< Reporting Limit)  
 RL = Reporting Limit  
 N.A. = Not Applicable  
 mg/kg= milligram per kilogram

**Remark:**

Zhejiang Uniview Technologies Co., Ltd. declared that:  
The following models and test model IPC2122SR3-UPF40-C are the same serials, all components were made by the same raw material but different in shapes and sizes. Zhejiang Uniview Technologies Co., Ltd. will be responsible for this statement.

IPC2122SR3-PF40-C

IPC2122SR3-PF60-C

IPC2124SR3-PF40-C

IPC2124SR3-PF60-C

IPC2122SR3-UPF40-C

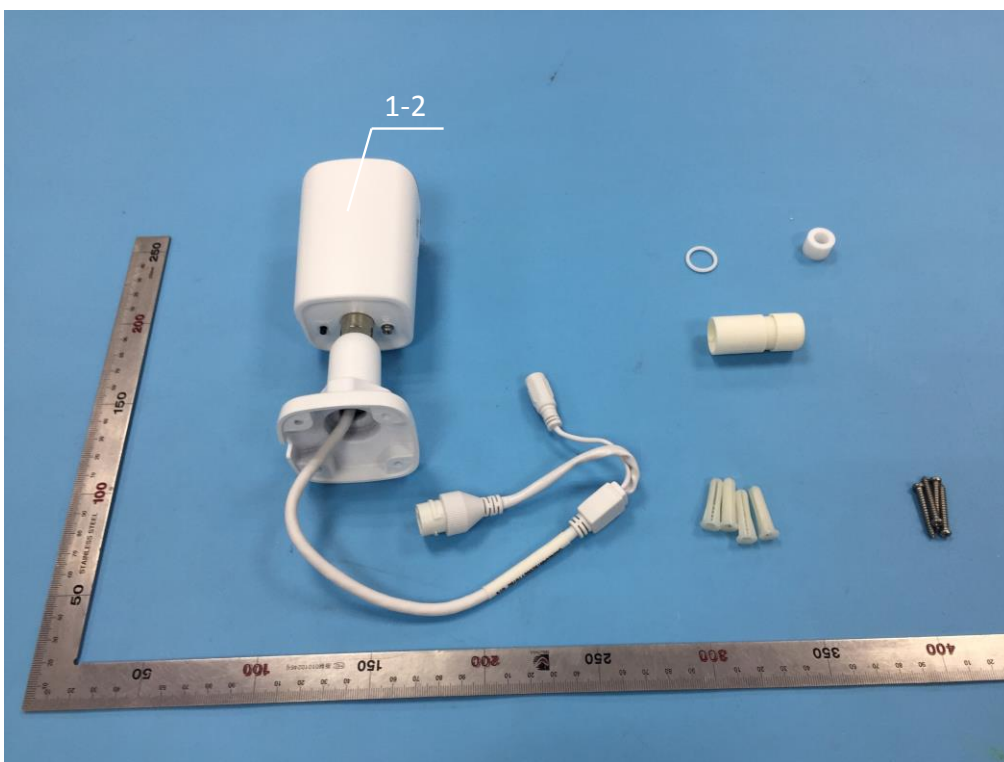
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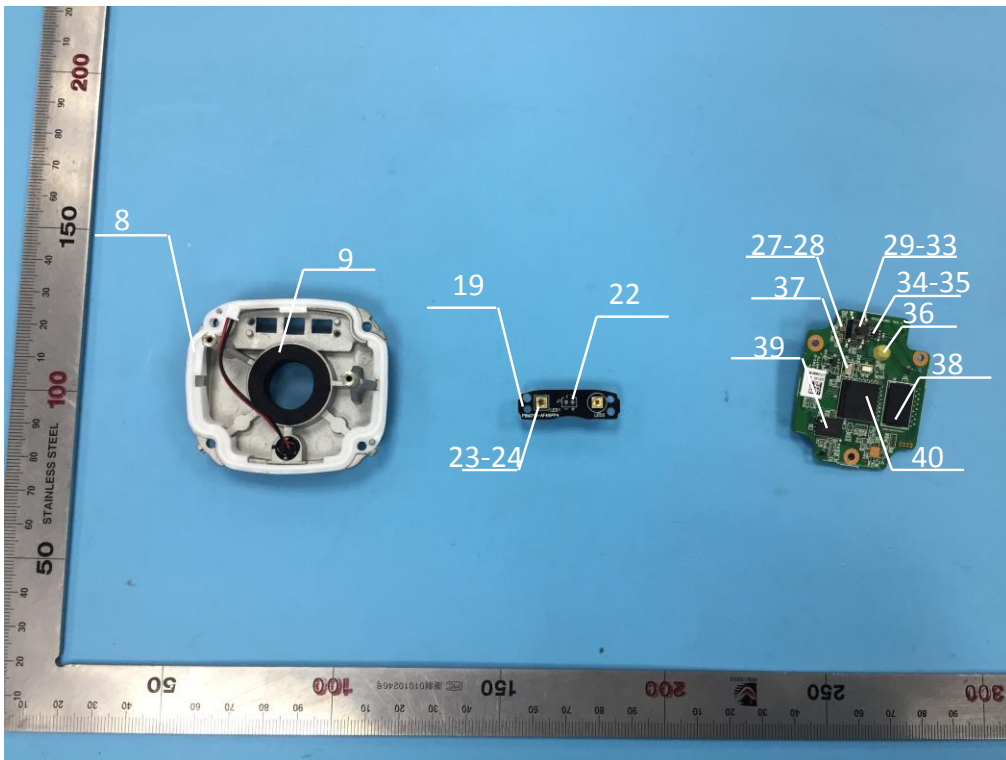
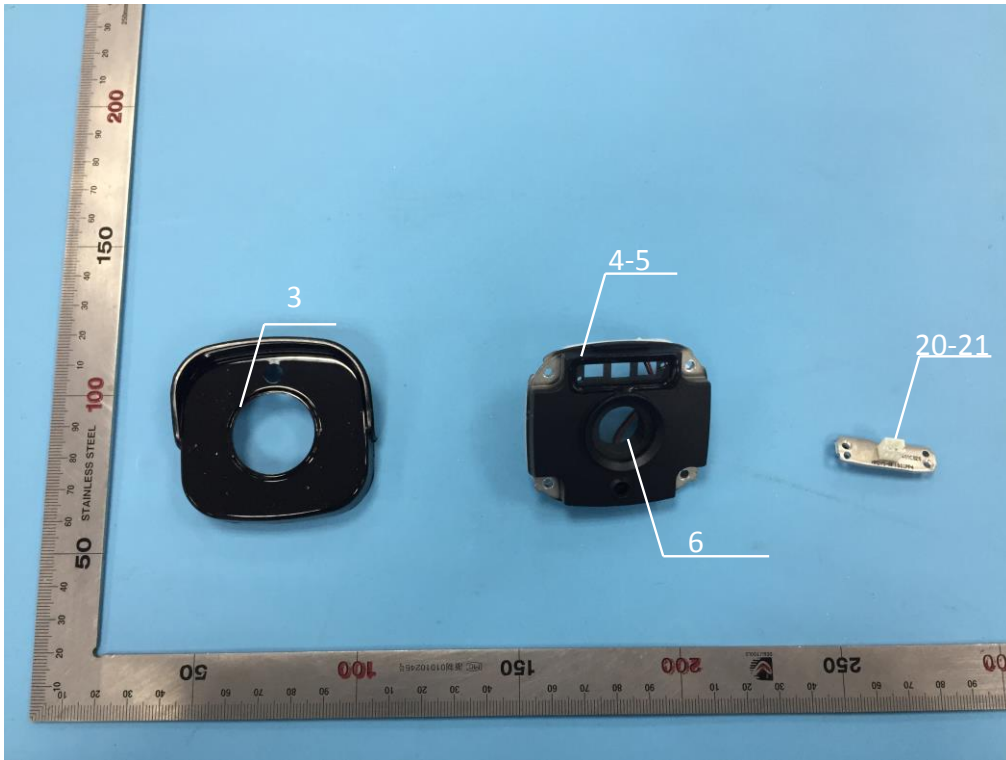
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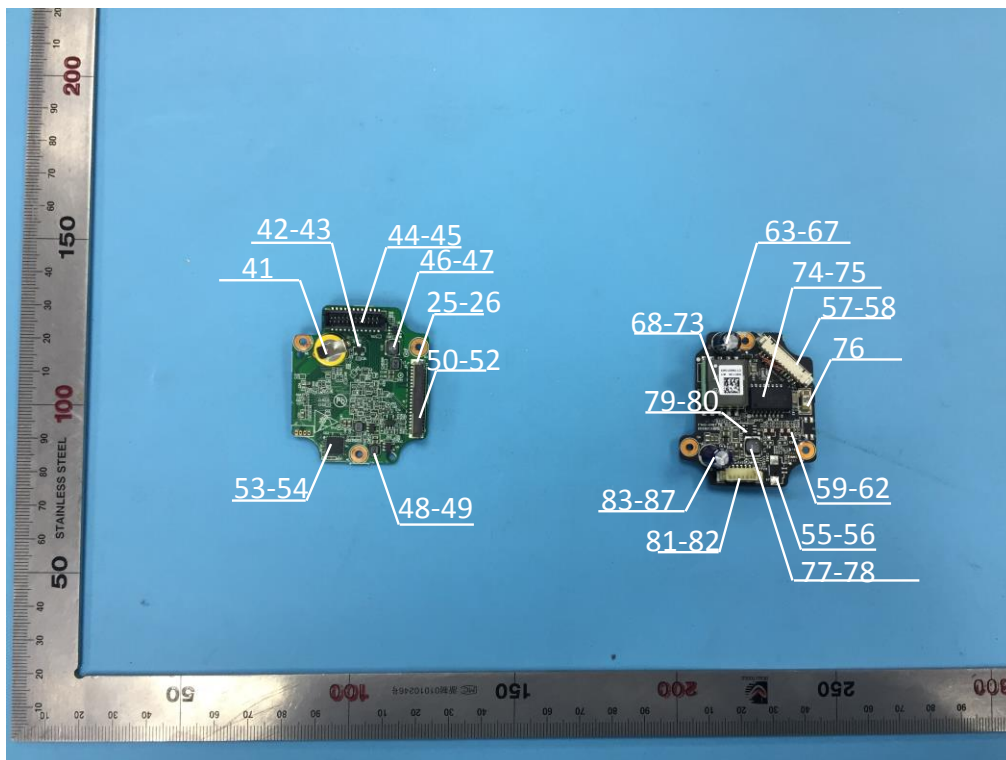
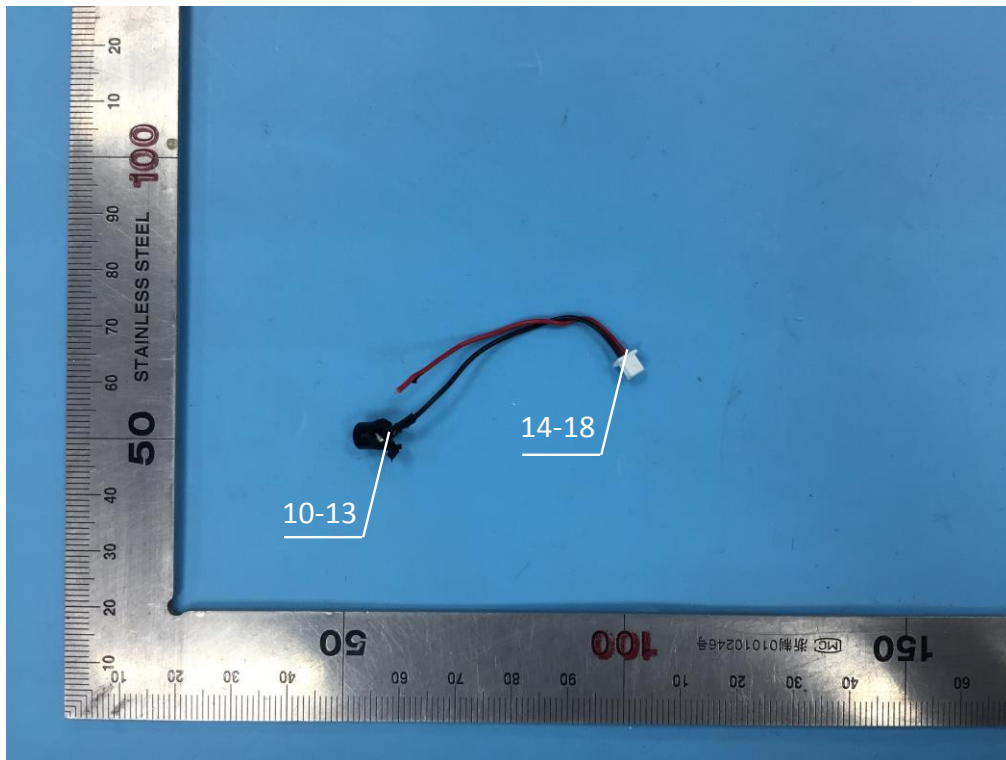
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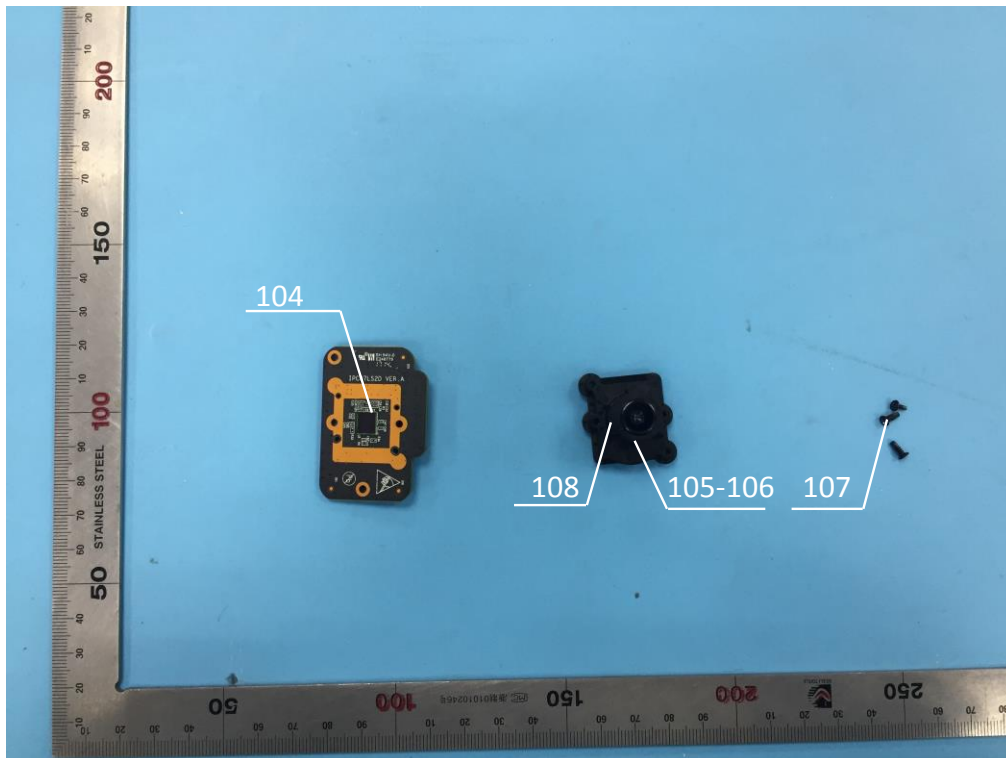
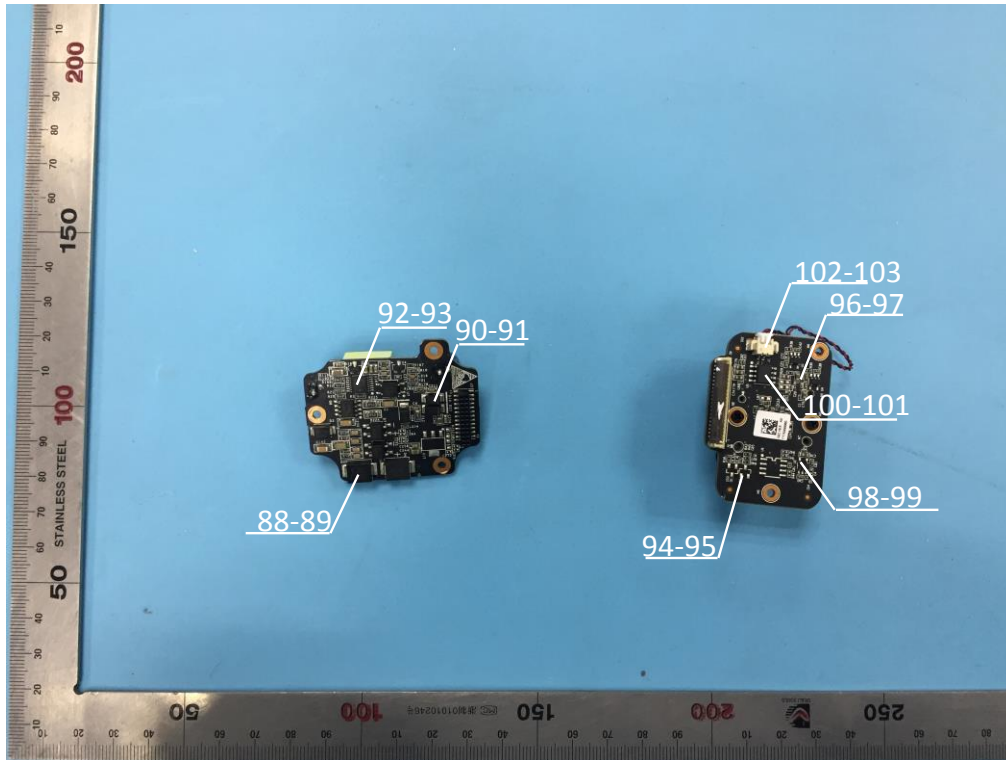
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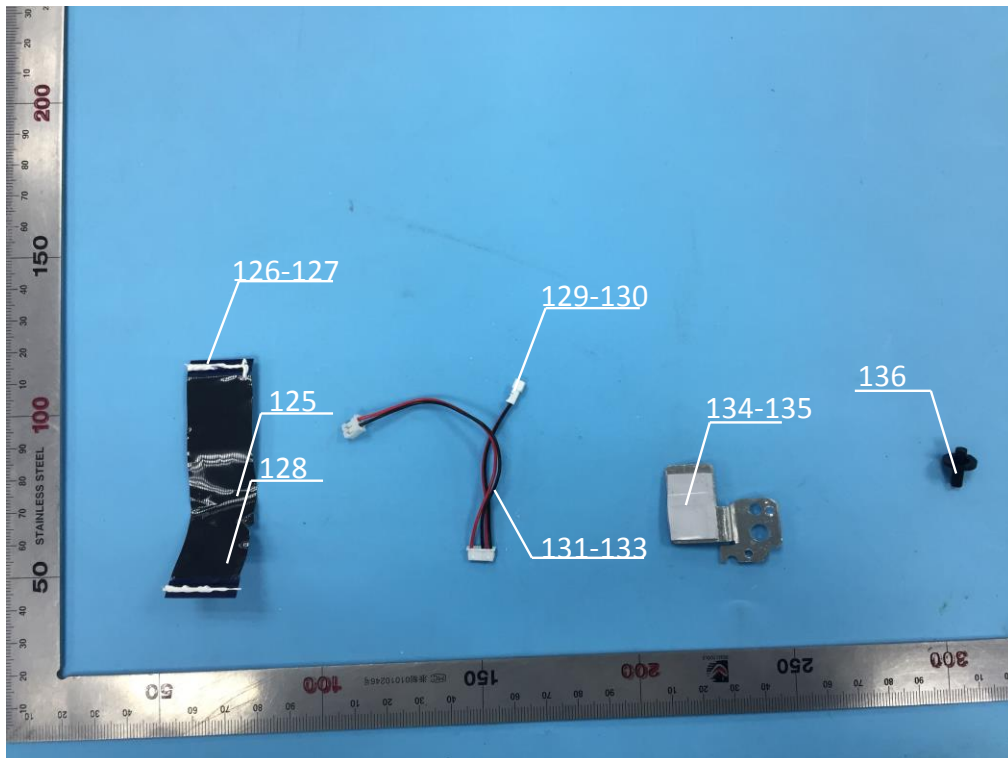
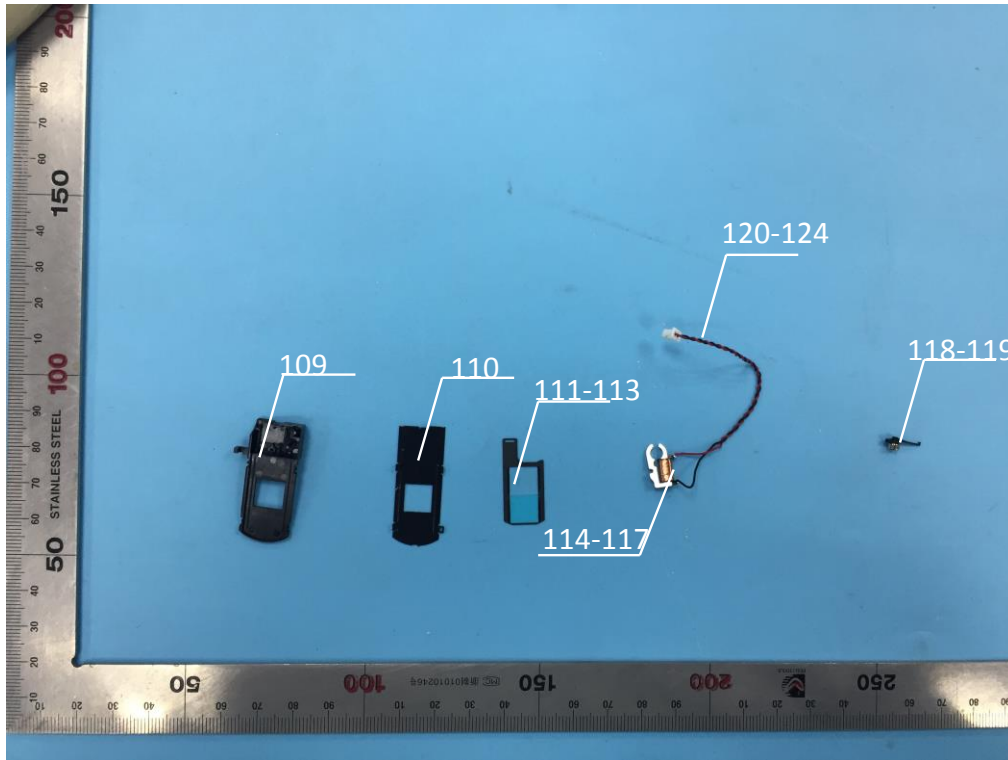


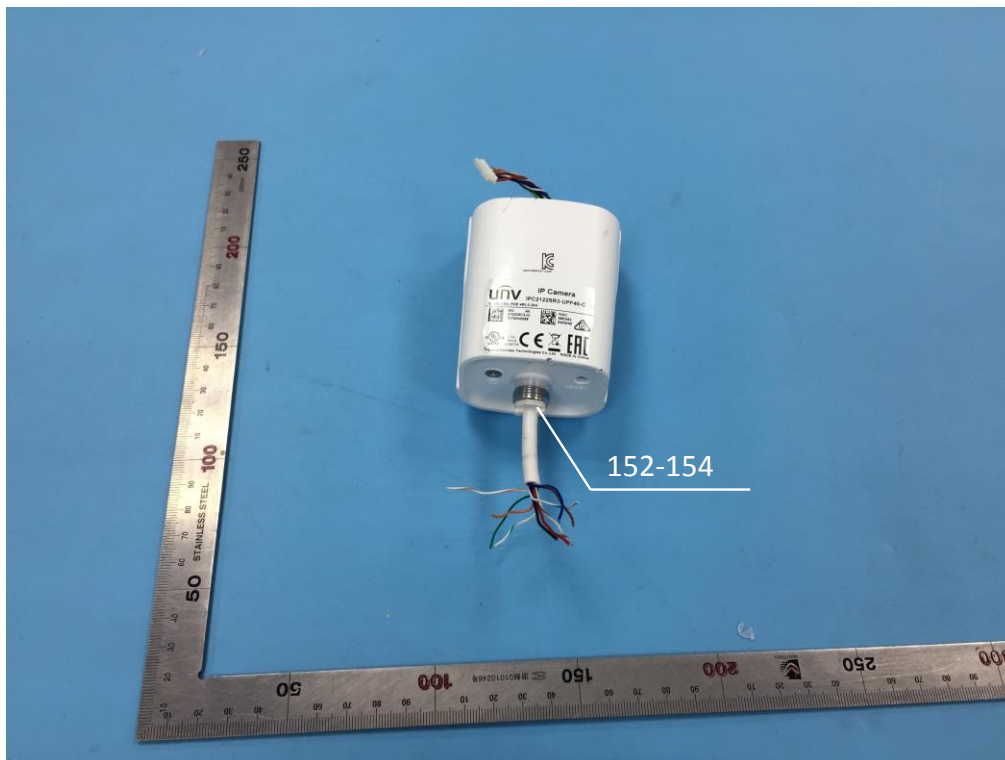
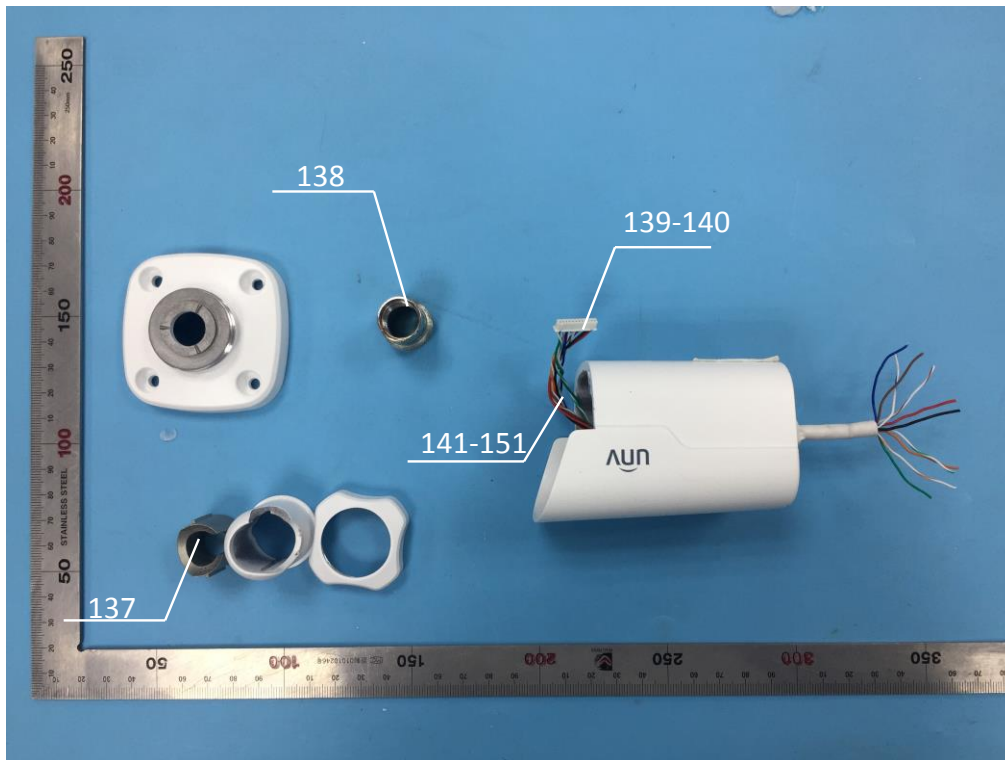




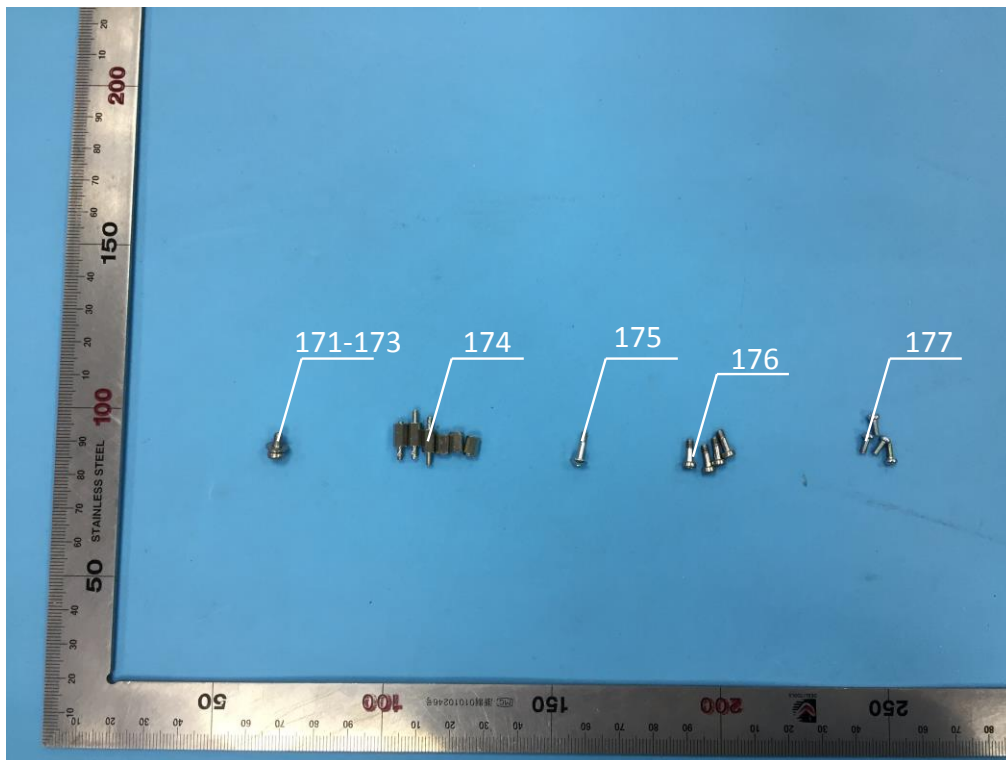


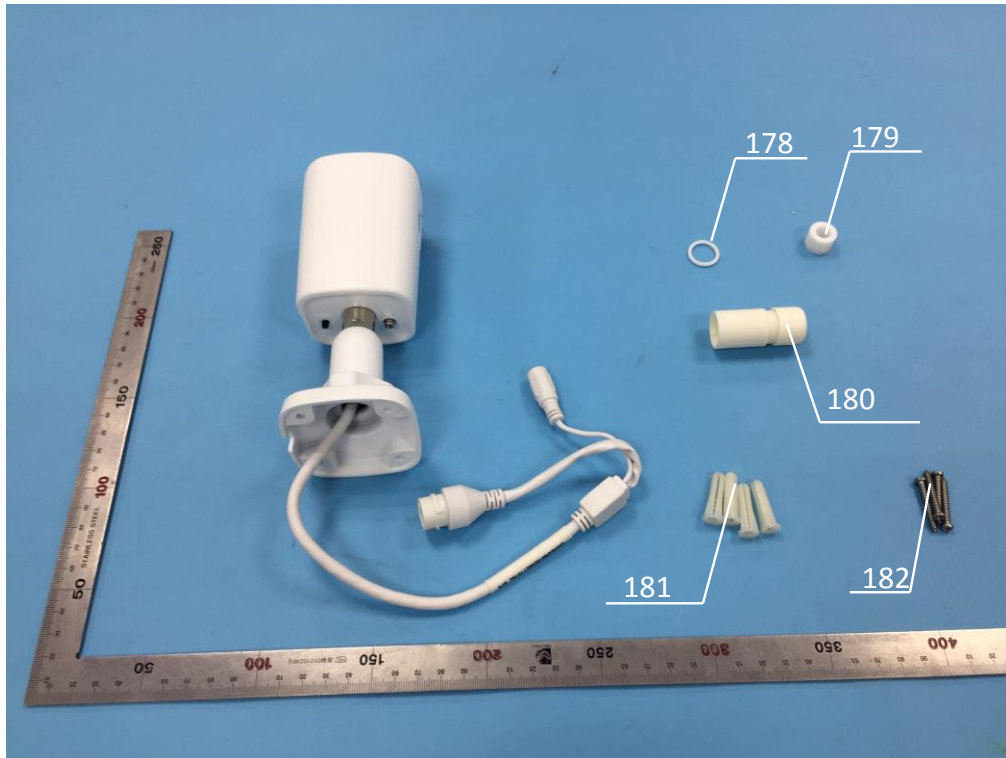












**\*\*\*End of Report\*\*\***