

# TEST REPORT

**Applicant:** Flashbay Electronics  
**Address:** Building2 ,Jixun Industrial Park ,Xinjiao ,Dong'ao Village ,Shatian Town ,Huiyang District ,Huizhou City , Guangdong Province,P.R.China

**The following sample(s) was/were submitted and identified on behalf of the client as:**

**Product name:** Bluetooth Speakers  
**Model:** TB, RY, SD, CU  
**Manufacturer& Factory:** Flashbay Electronics  
**Address:** Building2 ,Jixun Industrial Park ,Xinjiao ,Dong'ao Village ,Shatian Town ,Huiyang District ,Huizhou City , Guangdong Province,P.R.China

**Sample Received Date:** 2023-09-19  
**Testing Period:** 2023-09-19 ~ 2023-12-07

**Test Requirement:**

As specified by client, to screen the 235 substances of very high concern(SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).

**Summary:**

According to the specified scope and evaluation screening, the concentrations of 235 SVHC are  $\leq 0.1\%$  (w/w) in the submitted sample(s).

**Test Method:** Please refer to the following page(s);

**Test Result(s):** Please refer to the following page(s);

Compiled by: \_\_\_\_\_

Reviewed by: \_\_\_\_\_

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

2023-12-07

**Sample Description:**

No.	Sample name	Description	Remark
1	Bluetooth speaker (CU model) - shell	White plastic shell with lettering	•
2A		White coating of metal shell	•
3		Metal base material of metal shell	•
4		White plastic shell	•
5		Silvery metal rivet	•
6		White foam glue	•
7A		Grey rubber blanket	•
8		Silvery metal screw (large)	•
9		Silvery metal screw (small)	•
10	Bluetooth speaker (CU model) - microphone	Microphone body	•
11		Black cloth with glue	•
12		Black rubber blanket	•
13		Red wire jacket	•
14		Black wire jacket	•
15		Metal core of wire	•
16	Bluetooth speaker (CU model) - speaker	Silvery metal shell	•
17		Black rubber blanket	•
18		Magnet	•
19		Black fabric net	•
20		White plastic plate	•
21		Silvery metal sheet of white plastic plate	•
22		Silvery metal screw of white plastic plate	•
23		Black plastic shell	•
24		Black cloth with glue	•
25		Silvery fiber	•
26		Coil	•
27		White paper	•
28		Brown tape	•
29		Black plastic sheet	•
30		Red wire jacket	•
31	Black wire jacket	•	
32	Metal core of wire	•	
33	Bluetooth speaker (CU model) - PCBA(mixed test)	Green PCBA(mixed test)	•
34		Metal shell of Type-C interface	•
35		Grey plastic of Type-C interface	•
36		Metal plug pin of Type-C interface	•
37		Black plastic button of key switch	•

No.	Sample name	Description	Remark	
38	Bluetooth speaker (CU model) - PCBA(mixed test)	Silvery metal shrapnel of key switch	•	
39		Silvery metal sheet of key switch	•	
40		Black plastic pedestal of key switch	•	
41		Tin solder	•	
42		Aluminum shell of electrolytic capacitor	•	
43		Anode foil of electrolytic capacitor	•	
44		Cathode foil of electrolytic capacitor	•	
45		Electrolytic paper of electrolytic capacitor	•	
46		Rubber blanket of electrolytic capacitor	•	
47		Electrode pin of electrolytic capacitor	•	
48		Black plastic pedestal of electrolytic capacitor	•	
49		Bluetooth speaker (TB model) - speaker	Silvery metal core	Same as 25
50			Coil	Same as 26
51			White paper	Same as 27
52	Brown tape		Same as 28	
53	Black plastic sheet		Same as 29	
54	Red wire jacket		Same as 30	
55	Black wire jacket		Same as 31	
56	Metal core of wire		Same as 32	
57	Bluetooth speaker (RY model) - shell	White plastic cover	•	
58		Black plastic jacket with glue	•	
59		White plastic shell	Same as 4	
60		Silvery metal rivets	Same as 5	
61		White foam glue	Same as 6	
62		Grey rubber blanket with glue	Same as 7	
63		Silvery metal screw (large)	Same as 8	
64		Silvery metal screw (small)	Same as 9	
65	Bluetooth speaker (RY model) - microphone	Microphone body	Same as 10	
66		Black cloth with glue	Same as 11	
67		Black rubber blanket	Same as 12	
68		Red wire jacket	Same as 13	
69		Black wire jacket	Same as 14	
70		Metal core of wire	Same as 15	
71	Bluetooth speaker (RY model) - speaker	Silvery metal shell	Same as 16	
72		Black rubber blanket	Same as 17	
73		Magnet	Same as 18	
74		Black fabric net	Same as 19	
75		White plastic plate	Same as 20	

No.	Sample name	Description	Remark
76	Bluetooth speaker (RY model) - speaker	Silvery metal sheet of white plastic plate	Same as 21
77		Silvery metal screw of white plastic plate	Same as 22
78		Black plastic shell	Same as 23
79		Black cloth with glue	Same as 24
80		Silvery metal core	Same as 25
81		Coil	Same as 26
82		White paper	Same as 27
83		Brown tape	Same as 28
84		Black plastic sheet	Same as 29
85		Red wire jacket	Same as 30
86		Black wire jacket	Same as 31
87		Metal core of wire	Same as 32
88		Green PCBA(mixed test)	Same as 33
89		Metal shell of Type-C interface	Same as 34
90	Grey plastic of Type-C interface	Same as 35	
91	Metal plug pin of Type-C interface	Same as 36	
92	Black plastic button of key switch	Same as 37	
93	Silvery metal shrapnel of key switch	Same as 38	
94	Silvery metal sheet of key switch	Same as 39	
95	Bluetooth speaker (RY model) - PCBA(mixed test)	Black plastic pedestal of key switch	Same as 40
96	Tin solder	Same as 41	
97	Aluminum shell of electrolytic capacitor	Same as 42	
98	Anode foil of electrolytic capacitor	Same as 43	
99	Cathode foil of electrolytic capacitor	Same as 44	
100	Electrolytic paper of electrolytic capacitor	Same as 45	
101	Rubber blanket of electrolytic capacitor	Same as 46	
102	Electrode pin of electrolytic capacitor	Same as 47	
103	Black plastic pedestal of electrolytic capacitor	Same as 48	
104	Bluetooth speaker (TB model) - PCBA(mixed test)	Green PCBA(mixed test)	Same as 33
105	Metal shell of Type-C interface	Same as 34	
106	Grey plastic of Type-C interface	Same as 35	
107	Metal plug pin of Type-C interface	Same as 36	
108	Black plastic button of key switch	Same as 37	
109	Silvery metal shrapnel of key switch	Same as 38	
110	Silvery metal sheet of key switch	Same as 39	
111	Black plastic pedestal of key switch	Same as 40	
112	Bluetooth speaker (SD model) - shell	Brown wood	•
113	Black plastic jacket with glue	Same as 58	

No.	Sample name	Description	Remark
114	Bluetooth speaker (SD model) - shell	White plastic shell	Same as 4
115		Silvery metal rivet	Same as 5
116		White foam glue	Same as 6
117		Grey rubber blanket with glue	Same as 7
118		Silvery metal screw (large)	Same as 8
119		Silvery metal screw (small)	Same as 9
120	Bluetooth speaker (SD model) - microphone	Microphone body	Same as 10
121		Black cloth with glue	Same as 11
122		Black rubber blanket	Same as 12
123		Red wire jacket	Same as 13
124		Black wire jacket	Same as 14
125		Metal core of wire	Same as 15
126	Bluetooth speaker (SD model) - speaker	Silvery metal shell	Same as 16
127		Black rubber blanket	Same as 17
128		Magnet	Same as 18
129		Black fabric net	Same as 19
130		White plastic plate	Same as 20
131		Silvery metal sheet of white plastic plate	Same as 21
132		Silvery metal screw of white plastic plate	Same as 22
133		Black plastic shell	Same as 23
134		Black cloth with glue	Same as 24
135		Silvery metal core	Same as 25
136		Coil	Same as 26
137		White paper	Same as 27
138		Brown tape	Same as 28
139		Black plastic sheet	Same as 29
140	Red wire jacket	Same as 30	
141	Black wire jacket	Same as 31	
142	Metal core of wire	Same as 32	
143	Bluetooth speaker (SD model) - PCBA(mixed test)	Green PCBA(mixed test)	Same as 33
144		Metal shell of Type-C interface	Same as 34
145		Grey plastic of Type-C interface	Same as 35
146		Metal plug pin of Type-C interface	Same as 36
147		Black plastic button of key switch	Same as 37
148		Silvery metal shrapnel of key switch	Same as 38
149		Silvery metal sheet of key switch	Same as 39
150		Black plastic pedestal of key switch	Same as 40
151		Tin solder	Same as 41

No.	Sample name	Description	Remark
152	Bluetooth speaker (SD model) - PCBA(mixed test)	Aluminum shell of electrolytic capacitor	Same as 42
153		Anode foil of electrolytic capacitor	Same as 43
154		Cathode foil of electrolytic capacitor	Same as 44
155		Electrolytic paper of electrolytic capacitor	Same as 45
156		Rubber blanket of electrolytic capacitor	Same as 46
157		Electrode pin of electrolytic capacitor	Same as 47
158		Black plastic pedestal of electrolytic capacitor	Same as 48
159	Bluetooth speaker (TB model) - PCBA(mixed test)	Tin solder	Same as 41
160		Aluminum shell of electrolytic capacitor	Same as 42
161		Anode foil of electrolytic capacitor	Same as 43
162		Cathode foil of electrolytic capacitor	Same as 44
163		Electrolytic paper of electrolytic capacitor	Same as 45
164		Rubber blanket of electrolytic capacitor	Same as 46
165		Electrode pin of electrolytic capacitor	Same as 47
166		Black plastic pedestal of electrolytic capacitor	Same as 48
167	Bluetooth speaker (TB model) - shell	Silvery metal cover	•
168		Black plastic jacket with glue	Same as 58
169		White plastic shell	Same as 4
170		Silvery metal rivet	Same as 5
171		White foam glue	Same as 6
172		Grey rubber blanket with glue	Same as 7
173		Silvery metal screw (large)	Same as 8
174		Silvery metal screw (small)	Same as 9
175	Bluetooth speaker (TB model) - microphone	Microphone body	Same as 10
176		Black cloth with glue	Same as 11
177		Black rubber blanket	Same as 12
178		Red wire jacket	Same as 13
179		Black wire jacket	Same as 14
180		Metal core of wire	Same as 15
181	Bluetooth speaker (TB model) - speaker	Silvery metal shell	Same as 16
182		Black rubber blanket	Same as 17
183		Magnet	Same as 18
184		Black fabric net	Same as 19
185		White plastic plate	Same as 20
186		Silvery metal sheet of white plastic plate	Same as 21
187		Silvery metal screw of white plastic plate	Same as 22
188		Black plastic shell	Same as 23
189		Black cloth with glue	Same as 24

**Note:**

●=Actual tested sample

"Same as" = It means that the sample and the actual tested sample are of the same material and have not been tested.

According to the client's declarations, see the above table for the list of samples (parts) of the same material.

**Group Description:**

Group	No.
T1	3+5+8+9+15+16+18+21+22+25
T2	26+32+34+38+39+41+42+43+44+47
T3	36+167
T4	1+4+6+11+12+13+14
T5	10
T6	17+19+20+23+24+27+28+29+30
T7	31+35+37+40+45+46+48
T8	57+58+112
T9	33
T10	2A
T11	7A

**Test Result(s):**

Batch	No.	Test item(s)	CAS No.	Result(s),%				RL (%)
				T1	T2	T3	T4	
/	/	All tested SVHC in candidate list	/	N.D.	N.D.	N.D.	N.D.	/

Batch	No.	Test item(s)	CAS No.	Result(s),%				RL (%)
				T5	T6	T7	T8	
/	/	All tested SVHC in candidate list	/	N.D.	N.D.	N.D.	N.D.	/

Batch	No.	Test item(s)	CAS No.	Result(s),%			RL (%)
				T9	T10	T11	
/	/	All tested SVHC in candidate list	/	N.D.	N.D.	N.D.	/

**All tested SVHC in candidate list:**

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
I	1	Anthracene	120-12-7	204-371-1	0.050
I	2	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	0.050
I	3	Dibutyl phthalate(DBP)	84-74-2	201-557-4	0.050
I	4	Cobalt dichloride*	7646-79-9	231-589-4	0.010
I	5	Diarsenic pentaoxide*	1303-28-2	215-116-9	0.010
I	6	Diarsenic trioxide*	1327-53-3	215-481-4	0.010
I	7	Sodium dichromate*	7789-12-0/ 10588-01-9	234-190-3	0.010
I	8	Musk xylene	81-15-2	201-329-4	0.050
I	9	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.050
I	10	Hexabromocyclododecane (HBCDD)	25637-99-4/ 3194-55-6	247-148-4/ 221-695-9	0.050
I	11	ShortChain ChlorinatedParaffins(SCCPs)	85535-84-8	287-476-5	0.050
I	12	Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	232-064-2	0.010
I	14	Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	0.050
I	15	Triethyl arsenate*	15606-95-8	427-700-2	0.010
II	16	<sup>①</sup> Anthracene oil	90640-80-5	292-602-7	0.050
II	17	<sup>①</sup> Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	0.050
II	18	<sup>①</sup> Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.050
II	19	<sup>①</sup> Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.050
II	20	<sup>①</sup> Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.050
II	21	<sup>①</sup> Coal tar pitch, high temperature	65996-93-2	266-028-2	0.050
II	22	Acrylamide	79-06-1	201-173-7	0.050
II	23	2,4-Dinitrotoluene	121-14-2	204-450-0	0.050
II	24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.050
II	25	<sup>②</sup> Lead chromate	7758-97-6	231-846-0	0.010
II	26	<sup>②</sup> Lead chromate molybdate sulphateRed (C.I. Pigment Red 104)	12656-85-8	235-759-9	0.010
II	27	<sup>②</sup> Lead sulfochromate yellow(C.I. Pigment Yellow 34)	1344-37-2	215-693-7	0.010
II	28	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	0.050
III	29	Trichloroethylene	79-01-6	201-167-4	0.050
III	30	<sup>③</sup> Boric acid*	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.010



Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
III	31	<sup>③</sup> Disodium tetraborate, anhydrous*	1330-43-4/ 12179-04-3/ 1303-96-4	215-540-4	0.010
III	32	<sup>③</sup> Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	0.010
III	33	Sodium chromate*	7775-11-3	231-889-5	0.010
III	34	Potassium chromate*	7789-00-6	232-140-5	0.010
III	35	Ammonium dichromate*	7789-09-5	232-143-1	0.010
III	36	Potassium dichromate*	7778-50-9	231-906-6	0.010
IV	37	Cobalt( II ) sulphate*	10124-43-3	233-334-2	0.010
IV	38	Cobalt( II ) dinitrate*	10141-05-6	233-402-1	0.010
IV	39	Cobalt( II ) carbonate*	513-79-1	208-169-4	0.010
IV	40	Cobalt( II ) diacetate*	71-48-7	200-755-8	0.010
IV	41	2-Methoxyethanol	109-86-4	203-713-7	0.050
IV	42	2-Ethoxyethanol	110-80-5	203-804-1	0.050
IV	43	Chromium trioxide*	1333-82-0	215-607-8	0.010
IV	44	Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5/ 13530-68-2	231-801-5/ 236-881-5	0.010
V	45	2-ethoxyethyl acetate	111-15-9	203-839-2	0.050
V	46	Strontium chromate*	7789-06-2	232-142-6	0.010
V	47	<sup>①</sup> 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	0.050
V	48	Hydrazine	7803-57-8/ 302-01-2	206-114-9	0.050
V	49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.050
V	50	1,2,3-trichloropropane	96-18-4	202-486-1	0.050
V	51	<sup>①</sup> 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.050
VI	52	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.010
VI	53	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	0.010
VI	54	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.010
VI	55	<sup>②</sup> Aluminosilicate Refractory Ceramic Fibres (RCF) **	/	/	0.010
VI	56	<sup>②</sup> Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	/	/	0.010

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
VI	57	<sup>①</sup> Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.050
VI	58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.050
VI	59	2-Methoxyaniline (o-Anisidine)	90-04-0	201-963-1	0.050
VI	60	4-(1,1,3,3-tetramethylbutyl)phenol (4-tert-Octylphenol)	140-66-9	205-426-2	0.050
VI	61	1,2-Dichloroethane	107-06-2	203-458-1	0.050
VI	62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.050
VI	63	Arsenic acid*	7778-39-4	231-901-9	0.010
VI	64	Calcium arsenate*	7778-44-1	231-904-5	0.010
VI	65	Trilead diarsenate*	3687-31-8	222-979-5	0.010
VI	66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.050
VI	67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.050
VI	68	Phenolphthalein	77-09-8	201-004-7	0.050
VI	69	Lead diazide*	13424-46-9	236-542-1	0.010
VI	70	Lead 2,4,6-trinitro-m-phenylene dioxide (Lead styphnate)*	15245-44-0	239-290-0	0.010
VI	71	Lead dipicrate*	6477-64-1	229-335-2	0.010
VII	72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.050
VII	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.050
VII	74	<sup>③</sup> Diboron trioxide*	1303-86-2	215-125-8	0.010
VII	75	Formamide	75-12-7	200-842-0	0.050
VII	76	Lead(II) bis methanesulfonate*	17570-76-2	401-750-5	0.010
VII	77	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.050
VII	78	$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	0.050
VII	79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.050
VII	80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.050
VII	81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)	548-62-9	208-953-6	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
VII	82	[4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl]methylene]cycl ohexa-2,5- dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26)	2580-56-5	219-943-6	0.050
VII	83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C .I. Solvent Blue 4)	6786-83-0	229-851-8	0.050
VII	84	4,4'-bis(dimethylamino)-4''-(methylamino)t rityl alcohol	561-41-1	209-218-2	0.050
VIII	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	0.050
VIII	86	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	/	/	0.050
VIII	87	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.050
VIII	88	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	/	/	0.050
VIII	89	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.050
VIII	90	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.050
VIII	91	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane- 1,2- dicarboxylic anhydride, trans- cyclohexane-1,2-dicarboxylic anhydride	85-42-7/ 13149-00-3/ 14166-21-3	201-604-9/ 236-086-3/ 238-009-9	0.050
VIII	92	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0/ 19438-60-9/ 48122-14-1/ 57110-29-9	247-094-1/ 243-072-0/ 256-356-4/ 260-566-1	0.050
VIII	93	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.050
VIII	94	Diisopentylphthalate(DIPP)	605-50-5	210-088-4	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
VIII	95	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.050
VIII	96	N-pentyl-isopentylphthalate	776297-69-9	/	0.050
VIII	97	Methoxyacetic acid	625-45-6	210-894-6	0.050
VIII	98	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.050
VIII	99	1,2-Diethoxyethane	629-14-1	211-076-1	0.050
VIII	100	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.050
VIII	101	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	0.050
VIII	102	N-methylacetamide	79-16-3	201-182-6	0.050
VIII	103	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.010
VIII	104	Biphenyl-4-ylamine	92-67-1	202-177-1	0.050
VIII	105	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	0.050
VIII	106	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.010
VIII	107	Lead dinitrate*	10099-74-8	233-245-9	0.010
VIII	108	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.010
VIII	109	Lead monoxide (lead oxide)*	1317-36-8	215-267-0	0.010
VIII	110	Lead titanium trioxide*	12060-00-3	235-038-9	0.010
VIII	111	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.050
VIII	112	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.010
VIII	113	Dimethyl sulphate	77-78-1	201-058-1	0.050
VIII	114	Furan	110-00-9	203-727-3	0.050
VIII	115	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.010
VIII	116	Tetraethyllead*	78-00-2	201-075-4	0.010
VIII	117	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	0.010
VIII	118	Diethyl sulphate	64-67-5	200-589-6	0.050
VIII	119	Lead cyanamidate*	20837-86-9	244-073-9	0.010
VIII	120	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	0.010
VIII	121	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.010
VIII	122	o-Toluidine	95-53-4	202-429-0	0.050
VIII	123	o-aminoazotoluene	97-56-3	202-591-2	0.050
VIII	124	4-aminoazobenzene	60-09-3	200-453-6	0.050
VIII	125	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.050
VIII	126	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	0.050
VIII	127	Lead titanium zirconium oxide*	12626-81-2	235-727-4	0.010
VIII	128	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
VIII	129	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	0.050
VIII	130	Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	0.010
VIII	131	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.010
VIII	132	Orange lead (lead tetroxide)*	1314-41-6	215-235-6	0.010
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.010
VIII	134	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.050
VIII	135	Lead oxide sulfate*	12036-76-9	234-853-7	0.010
VIII	136	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.010
VIII	137	Silicic acid, lead salt*	11120-22-2	234-363-3	0.010
VIII	138	N,N-dimethylformamide	68-12-2	200-679-5	0.050
IX	139	Cadmium	7440-43-9	231-152-8	0.010
IX	140	Cadmium oxide*	1306-19-0	215-146-2	0.010
IX	141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.050
IX	142	4-Nonylphenol, branched and linear, ethoxylated[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	/	/	0.050
IX	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.050
X	145	<sup>①</sup> Trixylyl phosphate	25155-23-1	246-677-8	0.050
X	146	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	0.050
X	147	Dihexyl phthalate	84-75-3	201-559-5	0.050
X	148	Cadmium sulphide*	1306-23-6	215-147-8	0.010
X	149	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	0.050
X	150	Lead di(acetate)*	301-04-2	206-104-4	0.010
X	151	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.050
XI	153	Cadmium chloride	10108-64-2	233-296-7	0.010
XI	154	<sup>®</sup> Sodium peroxometaborate perboric acid, sodium salt*	/	239-172-9/ 234-390-0	0.010
XI	155	<sup>®</sup> Sodium peroxometaborate*	7632-04-4	231-556-4	0.010
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.050
XII	157	2-(2'-Hydroxy-3',5'-di-tert-butylphenyl)benzotriazole (UV-320)	3846-71-7	223-346-6	0.050
XII	158	Cadmium fluoride*	7790-79-6	232-222-0	0.010
XII	159	Cadmium sulphate*	10124-36-4/ 31119-53-6	233-331-6	0.010
XII	160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	239-622-4	0.050
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyloxy)-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	/	/	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq$ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5/ 68648-93-1	271-094-0/ 272-013-1	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	/	/	0.050
XIV	164	1,3-propanesultone	1120-71-4	214-317-9	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.050
XIV	167	Nitrobenzene	98-95-3	202-716-0	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1/ 21049-39-8/ 4149-60-4	206-801-3	0.050
XV	169	Benzo[def]chrysene	50-32-8	200-028-5	0.050
XVI	170	Bisphenol(BPA)	80-05-7	201-245-8	0.050
XVI	171	4-Heptylphenol, branched and linear (substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof)	/	/	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7/ 335-76-2/ 3830-45-3	206-400-3/ 221-470-5	0.050
XVI	173	4-tert-amylphenol	80-46-6	201-280-9	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	/	/	0.050
XVIII	175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	13560-89-9/ 135821-74-8/ 135821-03-3	/	0.050
XVIII	176	Benzo[a]anthracene	56-55-3	200-280-6	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	233-710-6	0.010
XVIII	178	Cadmium carbonate*	513-78-0	208-168-9	0.010
XVIII	179	Cadmium hydroxide*	21041-95-2	244-168-5	0.010
XVIII	180	Chrysene	218-01-9	205-923-4	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	/	/	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA)	552-30-7	209-008-0	0.050
XIX	183	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
XIX	184	Benzo[ghi]perylene	191-24-2	205-883-8	0.050
XIX	185	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.050
XIX	186	<sup>®</sup> Disodium octaborate*	12008-41-2	234-541-0	0.010
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	203-468-6	0.050
XIX	189	Lead	7439-92-1	231-100-4	0.010
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	262-967-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	239-139-9	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	205-916-6	0.050
XX	195	Fluoranthene	206-44-0	205-912-4	0.050
XX	196	Phenanthrene	85-01-8	201-581-5	0.050
XX	197	Pyrene	129-00-0	204-927-3	0.050
XXI	198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	/	/	0.050
XXI	199	4-tert-butylphenol	98-54-4	202-679-0	0.050
XXI	200	2-methoxyethyl acetate	110-49-6	203-772-9	0.050
XXI	201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides(covering any of their individual isomers and combinations thereof)	/	/	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	276-090-2	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	/	/	0.050
XXIII	206	1-vinylimidazole	1072-63-5	214-012-0	0.050
XXIII	207	2-methylimidazole	693-98-1	211-765-7	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0	0.050
XXIV	210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.050



Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	/	/	0.050
XXV	212	1,4-dioxane	123-91-1	204-661-8	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0/ 36483-57-5, 1522-92-5/ 96-13-9	221-967-7/ 253-057-0/ 202-480-9	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	/	/	0.050
XXV	215	4,4'-(1-methylpropylidene) bisphenol (bisphenol B)	77-40-7	201-025-1	0.050
XXV	216	Glutaral	111-30-8	203-856-5	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	/	/	0.050
XXV	218	<sup>®</sup> Orthoboric acid, sodium salt (Group) *	/	/	0.010
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)	/	/	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	/	/	0.050
XXVI	221	6,6'-di-tert-butyl-2,2'-methylene di-p-cresol	119-47-1	204-327-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0 <sup>2,6</sup> ]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	401-850-9	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
XXVIII	225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	253-692-3	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	201-236-9	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	201-250-5	0.050
XXVIII	228	® Barium diboron tetraoxide*	13701-59-2	237-222-4	0.010
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	/	/	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	224-208-8	0.050
XXVIII	231	Melamine	108-78-1	203-615-4	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	/	/	0.050
XXVIII	233	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropyl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	/	473-390-7	0.050
XXIX	234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	278-355-8	0.050
XXIX	235	Bis(4-chlorophenyl) sulphone	80-07-9	201-247-9	0.050

**Test Method:**

With reference to NTEK in-house method, Analysis is performed by Liquid Chromatography Mass Spectrometry/ Mass Spectrometry (LC-MS/MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer.

**Note:**

1. “%” =percent by weight, 0.1% = 1000 mg/kg =1000 ppm
2. RL = Report Limit, N.D. = Not Detected (<RL), /≠ Not Regulated or Not Applicable
3. \*: Concentration value of the substance by the conversion from the test results of certain elements. Concentration value of Bis(tributyltin)oxide by the conversion from the test results of Tributyl Tins.
4. \*\*: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
5. ①: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.
6. ②: In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of therepresentative compounds are calculated based on the result of specified heavy metal elements.
7. ③: Concentration value of Boric acid; Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide, hydrate; Diboron trioxide; Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate; Disodium octaborate; Orthoboric acid, sodium salt (Group) ; Barium diboron tetraoxide is calculated by the conversion from the test results of certain elements and confirmed by appropriate solvent extraction, meanwhile the book of materials is suggested to be checked for further confirmation.
8. REACH regulations related to obligations
  - (a) The chemical analysis of SVHC is performed by means of currently available analytical Techniques against the list published by ECHA, and shall refer to <http://echa.europa.eu/web/guest/candidate-list-table>. This list is under evaluation by ECHA and may subject to change in the future;
  - (b) Concerning article(s):

Notification: In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if ( i ) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and ( ii ) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w);

Inform: Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a

substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance;

(c) Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article. If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(d) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006.

9. Part No.2A Resubmitted Date: Nov.20,2023  
Part No.7A Resubmitted Date: Dec.04,2023
10. As specified by client, only test the designated sample.

Sample photo(s):



Fig.1



Fig.2

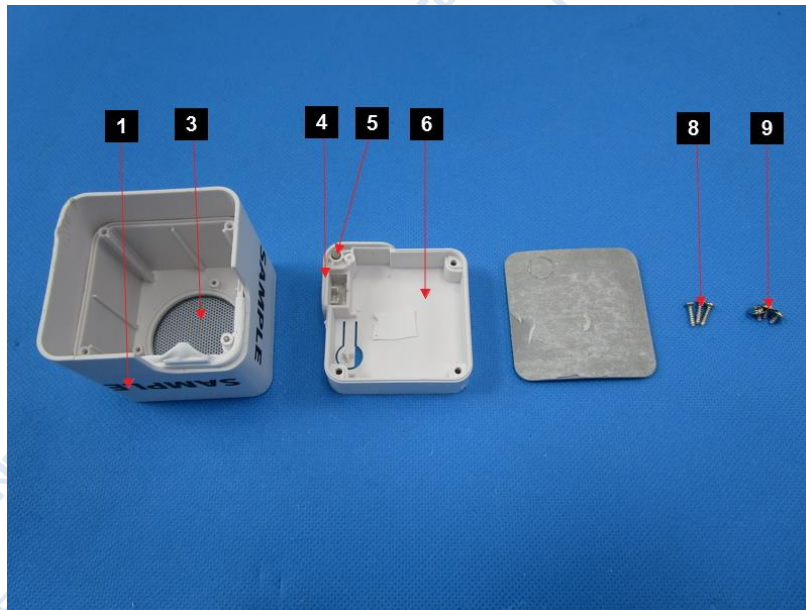


Fig.3

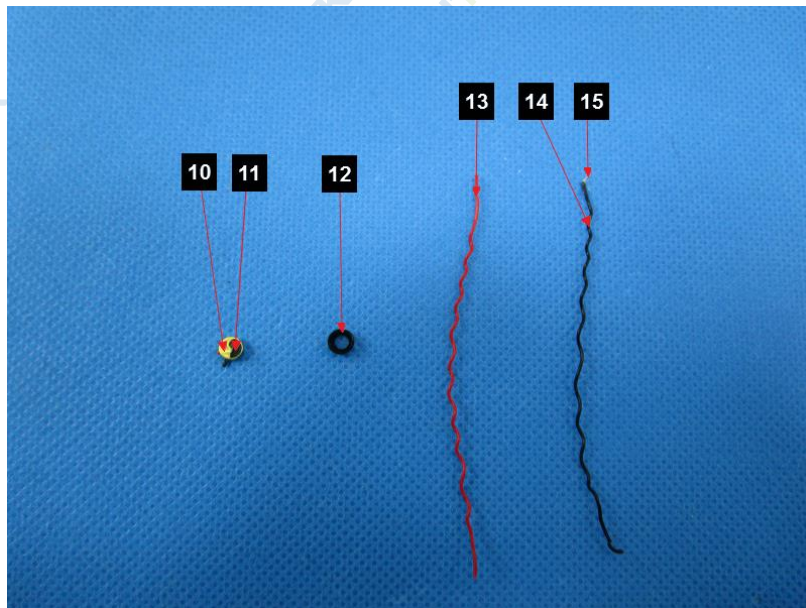


Fig.4

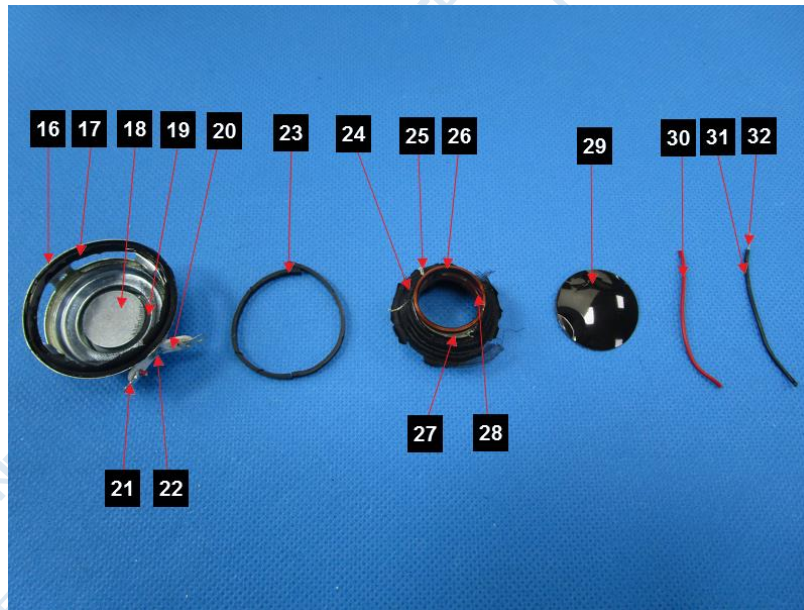


Fig.5

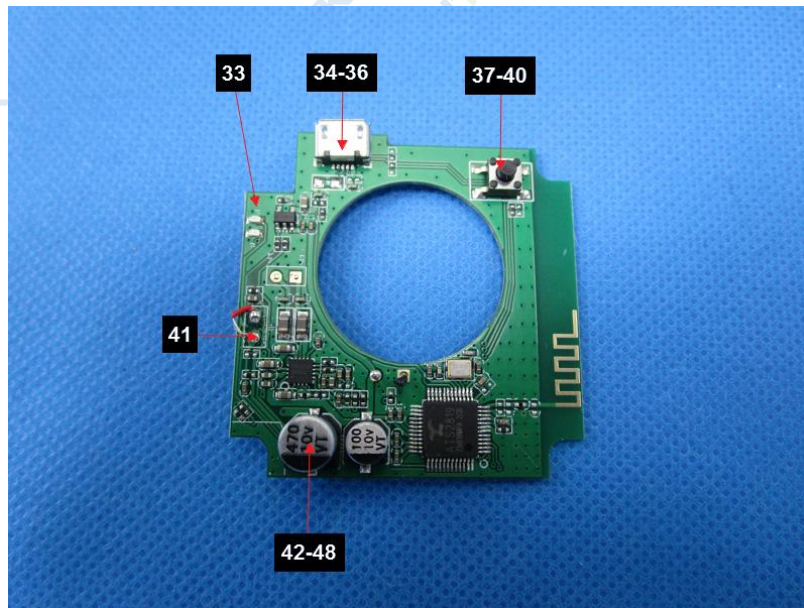


Fig.6



Fig.7

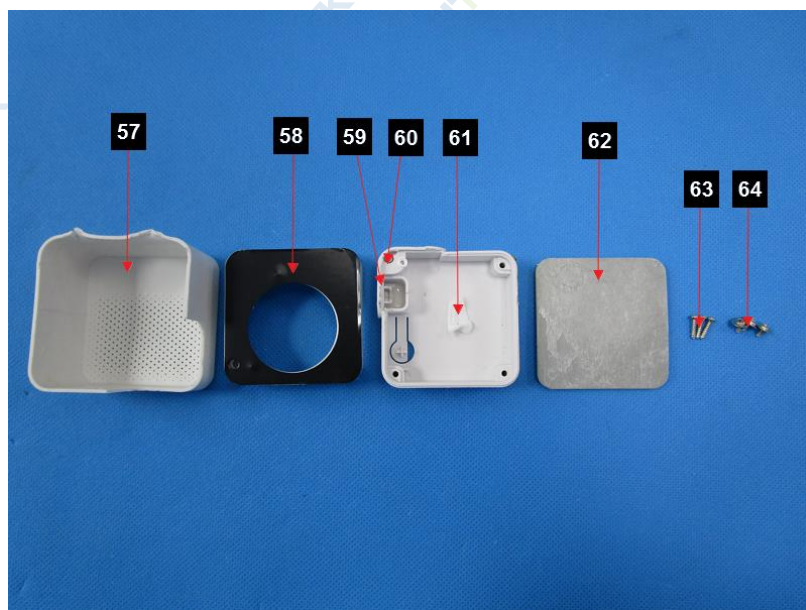


Fig.8



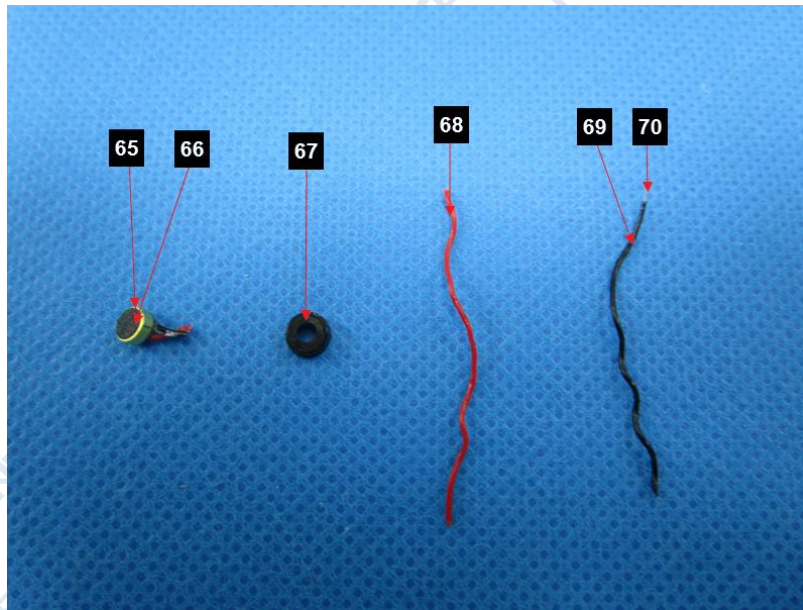


Fig.9

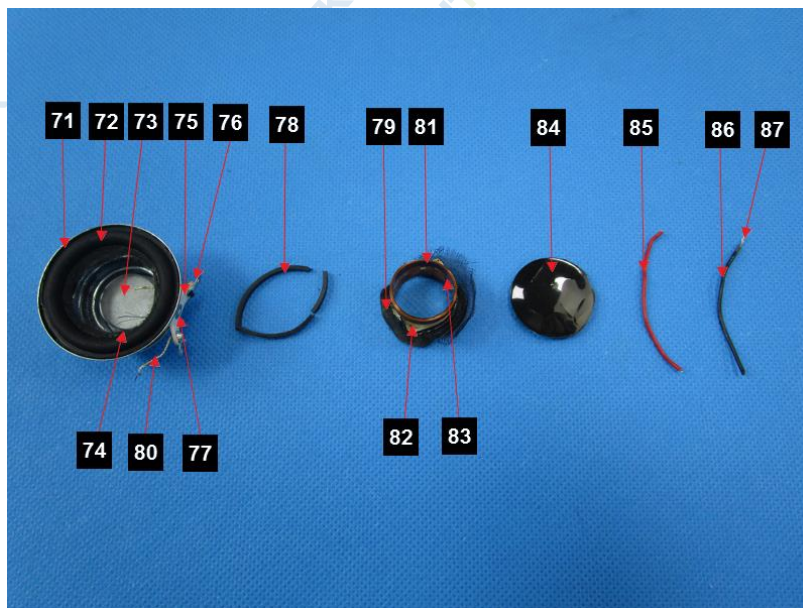


Fig.10

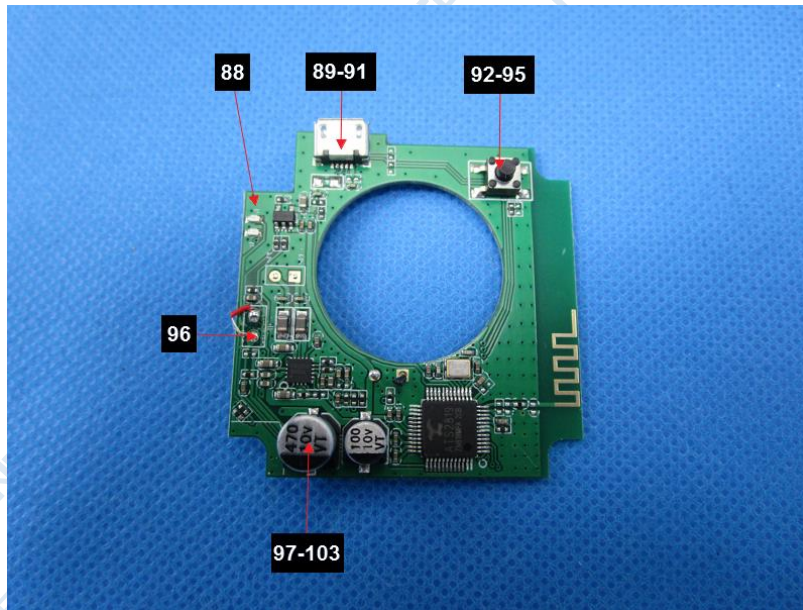


Fig.11

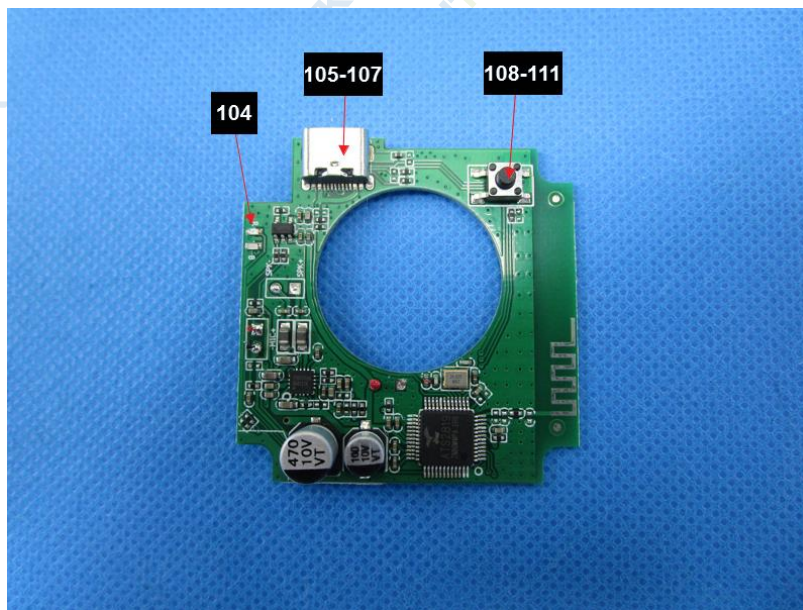


Fig.12

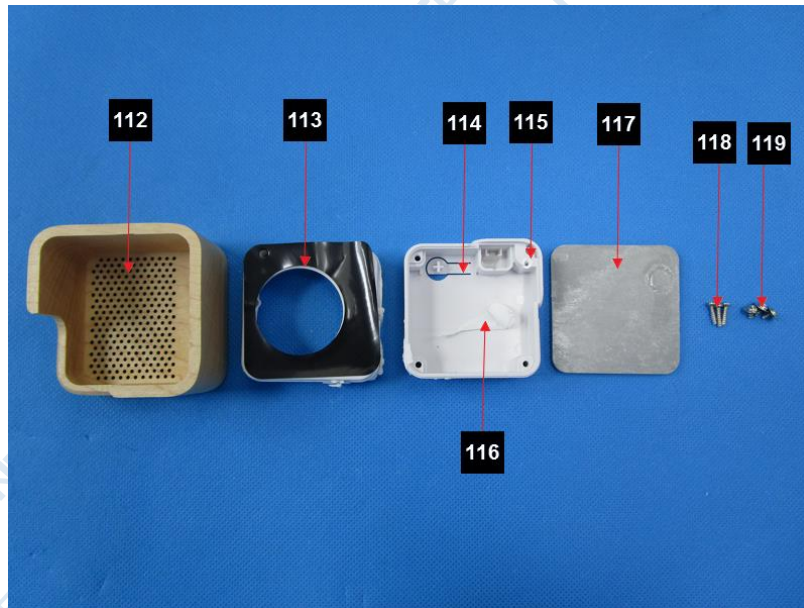


Fig.13

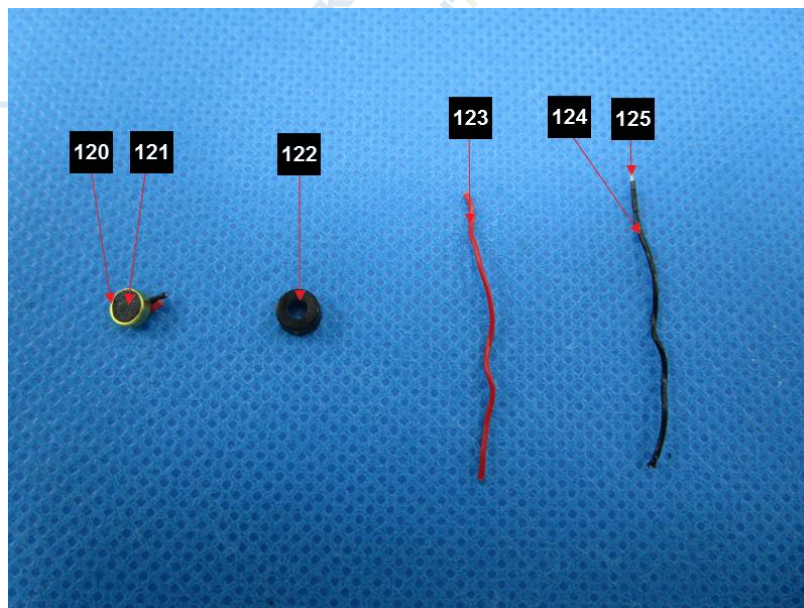


Fig.14

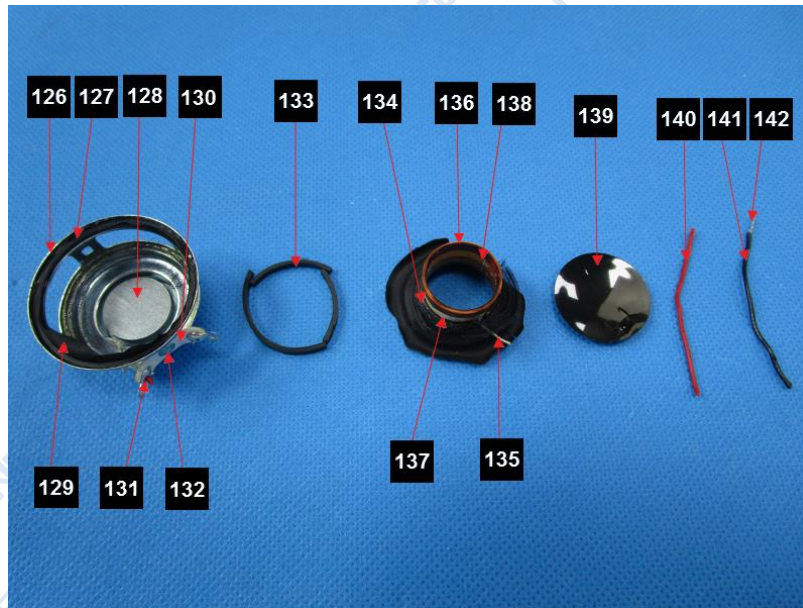


Fig.15

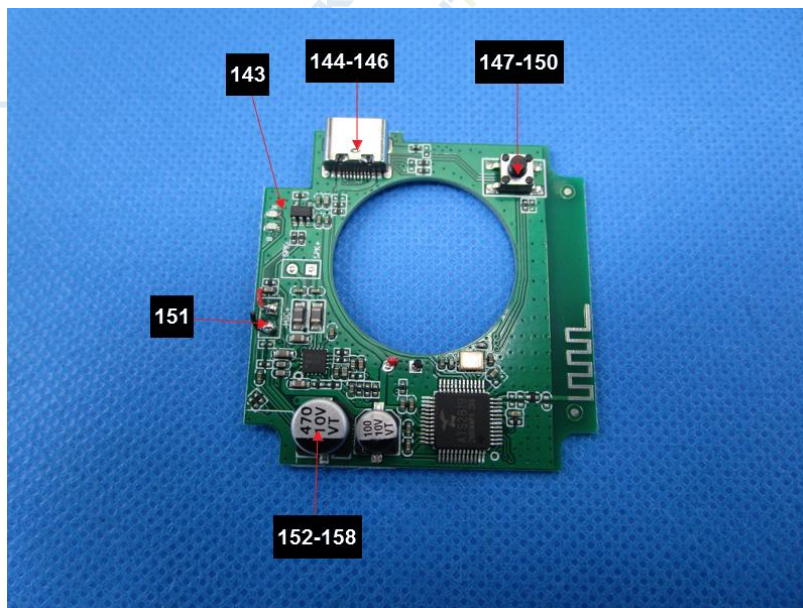


Fig.16

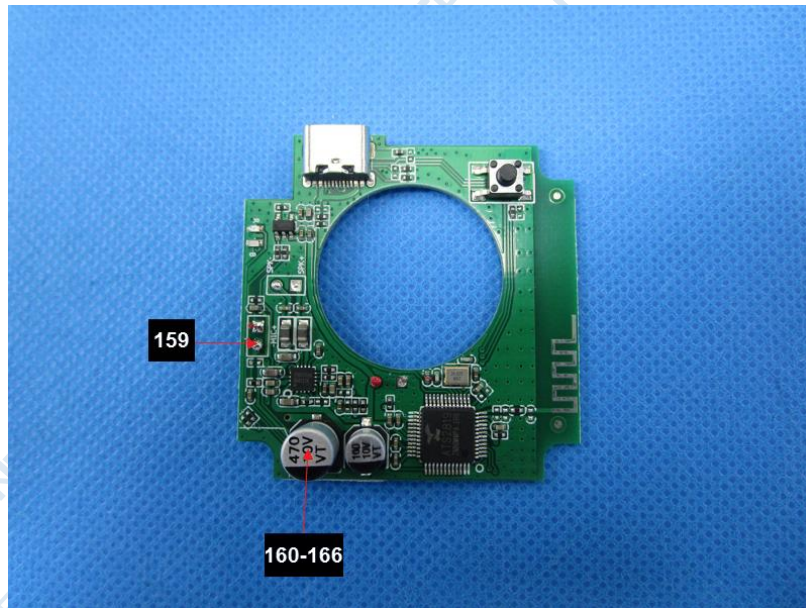


Fig.17

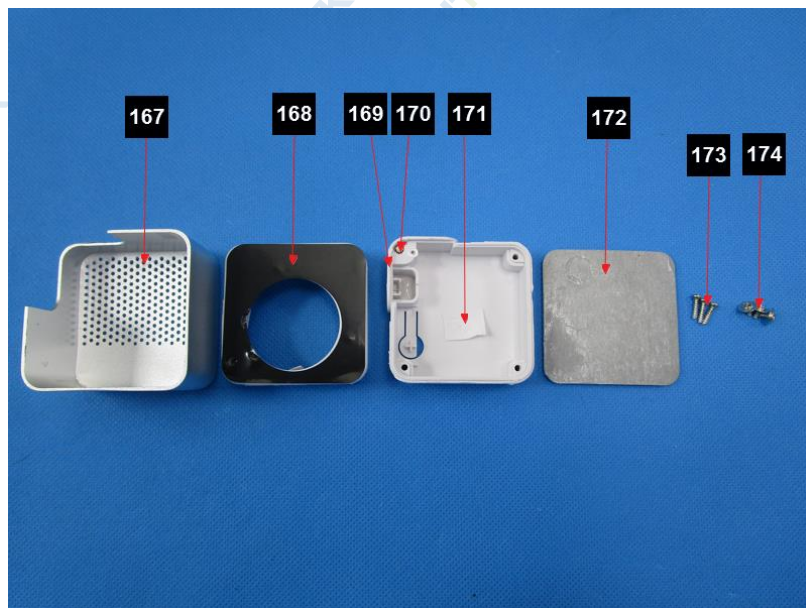


Fig.18

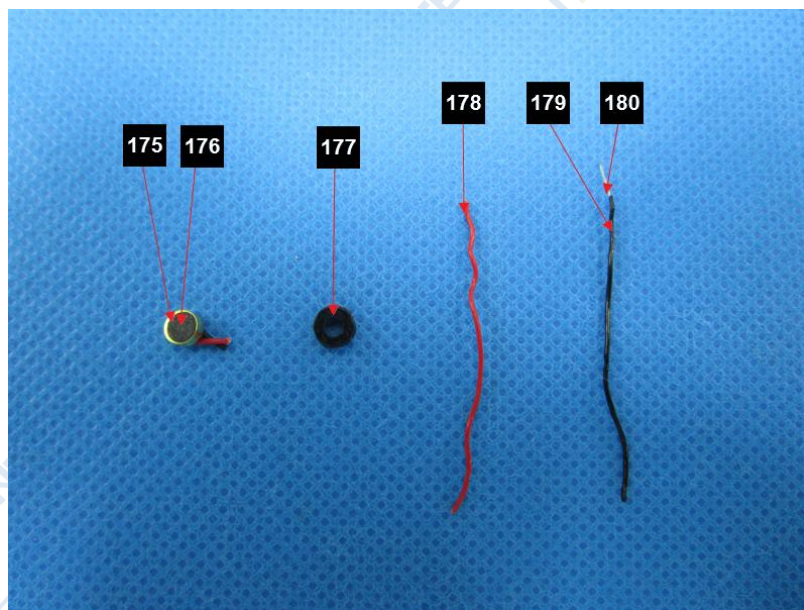


Fig.19

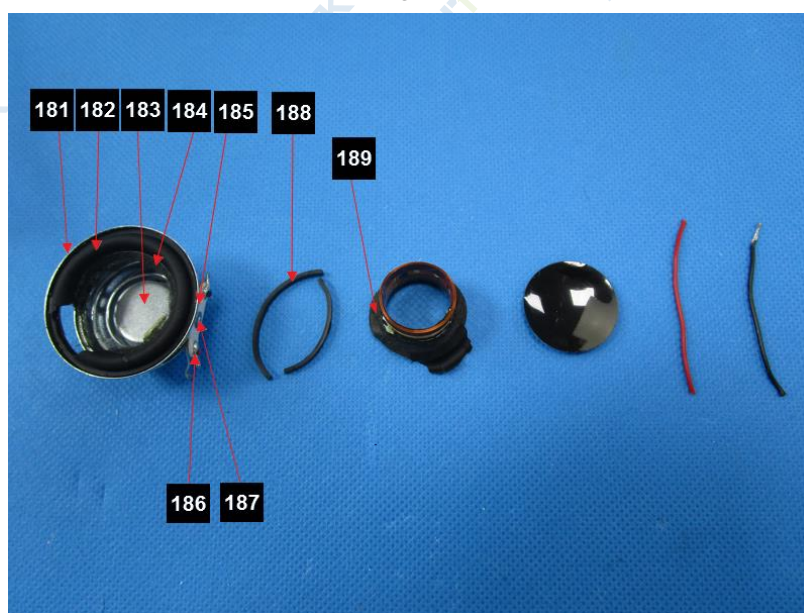


Fig.20

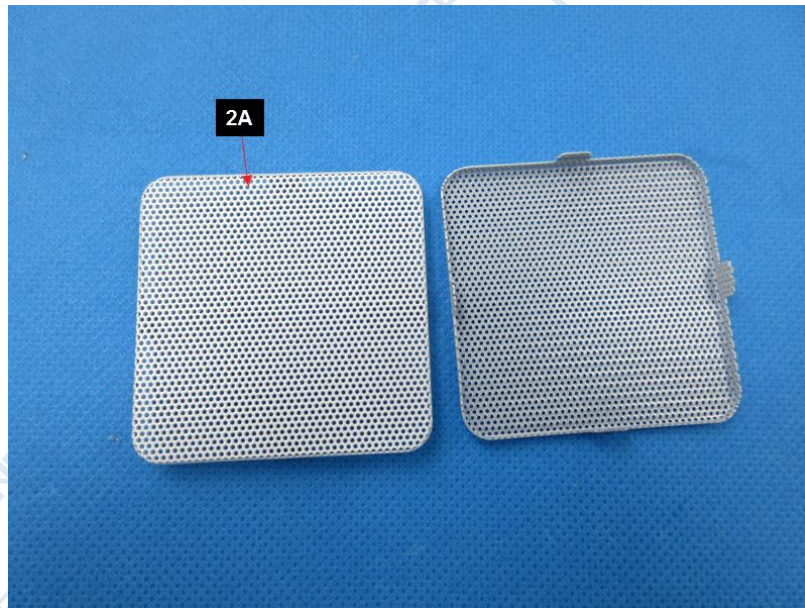


Fig.21

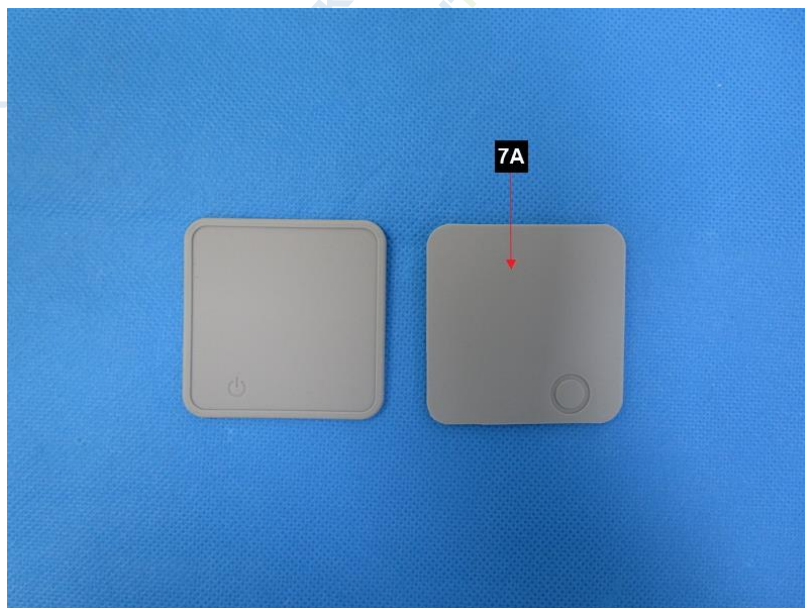


Fig.22

This test report displaces the original report No. S23091802911001, and the original one was invalid since the date of this test report released.

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

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