

# 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/Bluetooth Headphones  
**Model:** AQ ,UN ,MO  
**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 No.:** S230918029015 & S241025029001  
**Sample Received Date:** 2023-09-19 & 2024-10-26  
**Testing Period:** 2023-09-19 ~ 2023-10-09 & 2024-10-26~ 2024-11-30

**Test Requirement:**

As specified by client, to screen the 242 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 242 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: Nina Car Reviewed by: Luetta Mo

Approved by: May Li Date: 2024-11-30

**Sample Description:**

No.	Sample name	Description	Remark
1	Shell(AQ style)	White plastic with lettering(top cover,AQ style)	●
2		White plastic(shell,AQ style)	●
3		Black rubber(shell,AQ style)	●
4		Black rubber plug(mounting,AQ style)	●
5		White rubber ring(mounting,AQ style)	●
6		Silvery metal(screw(large),AQ style)	●
7		Silvery metal(screw(small),AQ style)	●
8	Microphone(AQ style)	Microphone body(MIC,AQ style)	●
9		Black cloth with glue(MIC,AQ style)	●
10		Black rubber sleeve(MIC,AQ style)	●
11		Red wire jacket(MIC,AQ style)	●
12		Black wire jacket(MIC,AQ style)	●
13		Metal core of wire(MIC,AQ style)	●
14	Speaker(AQ style)	Silvery metal shell(speaker,AQ style)	●
15		Magnet(speaker,AQ style)	●
16		Golden metal wire(speaker,AQ style)	●
17		White plastic plate(speaker,AQ style)	●
18		Silvery metal sheet(speaker,AQ style)	●
19		Silvery metal nail(speaker,AQ style)	●
20		Black fabric net(speaker,AQ style)	●
21		Coil(speaker,AQ style)	●
22		Brown tape(speaker,AQ style)	●
23		Black rubber sleeve(speaker,AQ style)	●
24		Black cloth with glue(speaker,AQ style)	●
25		Black plastic sheet(speaker,AQ style)	●
26		Red wire jacket(speaker,AQ style)	●
27		Black wire jacket(speaker,AQ style)	●
28	Metal core of wire(speaker,AQ style)	●	
29	PCBA (large) (AQ style) (mixed test)	Green PCBA(mixed test) (Green PCBA,AQ style)	●
30		Silvery metal(Type-C interface,AQ style)	●
31		Dark grey plastic(Type-C interface,AQ style)	●
32		Metal plug pin(Type-C interface,AQ style)	●
33		Black plastic button(black key switch,AQ style)	●
34		Silvery metal sheet(black key switch,AQ style)	●
35		Metal shrapnel(black key switch,AQ style)	●
36		Black plastic pedestal(black key switch,AQ style)	●
37		Tin solder(tin solder,AQ style)	●

No.	Sample name	Description	Remark
38	PCBA (large) (AQ style) (mixed test)	Aluminum shell(electrolytic capacitor,AQ style)	●
39		Anode foil(electrolytic capacitor,AQ style)	●
40		Cathode foil(electrolytic capacitor,AQ style)	●
41		Electrolytic paper(electrolytic capacitor,AQ style)	●
42		Rubber blanket(electrolytic capacitor,AQ style)	●
43		Electrode pin(electrolytic capacitor,AQ style)	●
44		Black plastic pedestal(electrolytic capacitor,AQ style)	●
45	PCBA (small) (AQ style) (mixed test)	Green PCBA(mixed test) (green PCBA,AQ style)	●
46		Black plastic button(beige key switch,AQ style)	●
47		Silvery metal shell(beige key switch,AQ style)	●
48		Beige plastic(beige key switch,AQ style)	●
49		Metal shrapnel(beige key switch,AQ style)	●
50		Red wire jacket(red wire jacket,AQ style)	●
51		Black wire jacket(black wire jacket,AQ style)	●
52		Metal core of wire(metal core of wire,AQ style)	●
53	Shell(MO style/AQ style)	White plastic(head beam,MO style)	●
54		Black rubber(head beam,MO style)	●
55		Grey foam with glue(head beam,MO style)	●
56		Black plastic(head beam,MO style)	●
57		Transparent plastic label with lettering(head beam,MO style)	●
58		Transparent plastic sheet with glue(head beam,MO style)	●
59		White plastic(ear pad,MO style)	●
60		Black foam with tape(ear pad,MO style)	●
61		Black plastic cover(ear pad,MO style)	●
62		Black leather(ear pad,MO style)	●
63		White foam(ear pad,MO style)	●
64		Black sewing thread(ear pad,MO style)	●
65		Black fabric net(ear pad,MO style)	●
66		Transparent double-sided adhesive(ear pad,MO style)	●
67	White plastic with lettering(ear pad,MO style)	●	
68	White plastic(button,MO style)	●	
69	Silvery metal(screw,MO style/AQ style)	Same as 6	
70	Microphone (MO style /AQ style)	Microphone body(MIC,MO style/AQ style)	Same as 8
71		Black cloth with glue(MIC,MO style/AQ style)	Same as 9
72		Black rubber sleeve(MIC,MO style/AQ style)	Same as 10
73		Red wire jacket(MIC,MO style/AQ style)	Same as 11

No.	Sample name	Description	Remark
74	Microphone	Black wire jacket(MIC,MO style/AQ style)	Same as 12
75	(MO style /AQ style)	Metal core of wire(MIC,MO style/AQ style)	Same as 13
76	Speaker(MO style)	Black plastic shell(speaker,MO style)	•
77		Black cloth with glue(speaker,MO style)	•
78		Silvery metal(speaker,MO style)	•
79		Magnet(speaker,MO style)	Same as 15
80		Transparent plastic sheet(speaker,MO style)	•
81		Coil(speaker,MO style)	•
82		Green PCBA(mixed test) (speaker,MO style)	•
83		Red metal wire core(speaker,MO style)	•
84		Cupreous metal wire core(speaker,MO style)	•
85		Black wire jacket(speaker,MO style)	•
86	PCBA(MO style /AQ style) (mixed test)	Green PCBA(mixed test) (green PCB,MO style)	•
87		Black plastic button(black key switch,MO style/AQ style)	Same as 33
88		Silvery metal sheet(black key switch,MO style/AQ style)	Same as 34
89		Metal shrapnel(black key switch,MO style/AQ style)	Same as 35
90		Black plastic pedestal(black key switch,MO style/AQ style)	Same as 36
91		Black plastic button (beige key switch,MO style/AQ style)	Same as 46
92		Silvery metal shell(beige key switch,MO style/AQ style)	Same as 47
93		Beige plastic(beige key switch,MO style/AQ style)	Same as 48
94		Metal shrapnel(beige key switch,MO style/AQ style)	Same as 49
95		Black plastic(headset jack,MO style)	•
96	Metal pin(headset jack,MO style)	•	
97	Silvery metal(Type-C interface,MO style/AQ style)	Same as 30	
98	Dark grey plastic(Type-C interface,MO style/AQ style)	Same as 31	
99	Metal plug pin(Type-C interface,MO style/AQ style)	Same as 32	
100	Shell(UN style /AQ style)	White plastic with lettering(shell,UN style)	•
101		White label paper with lettering(shell,UN style)	•
102		Black plastic(shell,UN style)	•
103		Black rubber(shell,UN style)	•
104		Silvery metal block(shell,UN style)	•

No.	Sample name	Description	Remark
105	Shell(UN style /AQ style)	Black foam with tape(shell,UN style)	•
106		Transparent double-sided adhesive(side cover,UN style)	•
107		White plastic cover(side cover,UN style)	•
108		White plastic button(side cover,UN style)	•
109		Gray rubber(standing leg,UN style)	•
110		Silvery metal(screw(large),UN style/AQ style)	Same as 6
111	Silvery metal(screw(small),UN style/AQ style)	Same as 7	
112	Microphone(UN style /AQ style)	Microphone body(MIC,UN style/AQ style)	Same as 8
113		Black cloth with glue(MIC,UN style/AQ style)	Same as 9
114		Black rubber sleeve(MIC,UN style/AQ style)	Same as 10
115		Red wire jacket(MIC,UN style/AQ style)	Same as 11
116		Black wire jacket(MIC,UN style/AQ style)	Same as 12
117		Metal core of wire(MIC,UN style/AQ style)	Same as 13
118	Speaker (UN style /AQ style)	Black plastic shell(speaker,UN style)	•
119		Silvery metal shell(speaker,UN style/AQ style)	Same as 14
120		Magnet(speaker,UN style/AQ style)	Same as 15
121		Golden metal wire(speaker,UN style/AQ style)	Same as 16
122		White plastic plate(speaker,UN style/AQ style)	Same as 17
123		Silvery metal sheet(speaker,UN style/AQ style)	Same as 18
124		Silvery metal nail(speaker,UN style/AQ style)	Same as 19
125		Black fabric net(speaker,UN style/AQ style)	Same as 20
126		Coil(speaker,UN style/AQ style)	Same as 21
127		Brown tape(speaker,UN style/AQ style)	Same as 22
128		Black rubber sleeve(speaker,UN style/AQ style)	Same as 23
129		Black cloth with glue(speaker,UN style/AQ style)	Same as 24
130		Black plastic sheet(speaker,UN style/AQ style)	Same as 25
131		Red wire jacket(speaker,UN style/AQ style)	Same as 26
132	Black wire jacket(speaker,UN style/AQ style)	Same as 27	
133	Metal core of wire(speaker,UN style/AQ style)	Same as 28	
134	PCBA (large) (UN style /AQ style) (mixed test)	Green PCBA(mixed test) (green PCBA,UN style)	•
135		Black plastic(black interface,UN style)	•
136		Metal plug pin(black interface,UN style)	•
137		Aluminum shell(electrolytic capacitor,UN style/AQ style)	Same as 38
138		Anode foil(electrolytic capacitor,UN style/AQ style)	Same as 39
139		Cathode foil(electrolytic capacitor,UN style/AQ style)	Same as 40
140	Electrolytic paper(electrolytic capacitor,UN style/AQ style)	Same as 41	



No.	Sample name	Description	Remark
141	PCBA (large) (UN style /AQ style) (mixed test)	Rubber blanket(electrolytic capacitor,UN style/AQ style)	Same as 42
142		Electrode pin(electrolytic capacitor,UN style/AQ style)	Same as 43
143		Black plastic pedestal(electrolytic capacitor,UN style/AQ style)	Same as 44
144		Magnet core(inductor,UN style)	●
145		Coil(inductor,UN style)	●
146	PCBA (small) (UN style /AQ style) (mixed test)	Green PCBA(mixed test) (green PCBA,UN style)	●
147		Black plastic button (beige key switch,UN style/AQ style)	Same as 46
148		Silvery metal shell(beige key switch,UN style/AQ style)	Same as 47
149		Beige plastic(beige key switch,UN style/AQ style)	Same as 48
150		Metal shrapnel(beige key switch,UN style/AQ style)	Same as 49
151		Silvery metal(Type-C interface,UN style/AQ style)	Same as 30
152		Dark grey plastic(Type-C interface,UN style/AQ style)	Same as 31
153		Metal plug pin(Type-C interface,UN style/AQ style)	Same as 32
154		Silvery metal(USB interface,UN style)	●
155		Dark grey plastic(USB interface,UN style)	●
156		Metal plug pin(USB interface,UN style)	●
157		Black colloid(black colloid,UN style)	●
158		Black plastic(black interface,UN style)	●
159		Metal plug pin(black interface,UN style)	●
160		Magnet core(inductor,UN style)	Same as 144
161	Coil(inductor,UN style)	Same as 145	

**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	6+7+13+14+15+16+18+19+21+28
T2	30+32+34+35+37+38+39+40+43+47
T3	49+52+78+81+83+84+96+104
T4	136+144+145+154+156+159
T5	1+2+4+5+8+9+10+12
T6	17+20+22+23+24+25+26+27+31
T7	41+42+44+46+48+50+51
T8	53+54+55+56+57+58+59+60
T9	61+62+63+64+65+66+67+68+76+77
T10	80+85+95+100+101+102+103+105+106+107
T11	108+109+118+135+155+157+158
T12	29+45+82+86
T13	134+146
T14	3
T15	11
T16	33
T17	36

**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	T12	
/	/	All tested SVHC in candidate list	/	N.D.	N.D.	N.D.	N.D.	/

Batch	No.	Test item(s)	CAS No.	Result(s),%		RL (%)
				T13		
/	/	All tested SVHC in candidate list	/	N.D.		/

Batch	No.	Test item(s)	CAS No.	Result(s),%		RL (%)
				T14		
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.081		0.050
/	/	Other tested SVHC in candidate list	/	N.D.		/

Batch	No.	Test item(s)	CAS No.	Result(s),%		RL (%)
				T15		
I	3	Dibutyl phthalate(DBP)	84-74-2	0.052		0.050
/	/	Other tested SVHC in candidate list	/	N.D.		/

Batch	No.	Test item(s)	CAS No.	Result(s),%		RL (%)
				T16	T17	
/	/	All tested SVHC in candidate list	/	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	Decamethylcyclotrasiloxane (D5)	541-02-6	208-764-9	0.050
XIX	186	<sup>③</sup> Disodium octaborate*	12008-41-2	234-541-0	0.010
XIX	187	Dodecamethylcyclotrasiloxane (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>③</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	<sup>Ⓢ</sup> 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
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	211-989-5	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetraethylbutyl)phenol	3147-75-9	221-573-5	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	438-340-0	0.050
XXX	239	Bumetizole	3896-11-5	223-445-4	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	/	700-960-7	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	201-279-3	0.050
XXXII	242	Triphenyl phosphate (TPP)	115-86-6	204-112-2	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. In the "Key Tips for Successful Submission of SCIP Notifications" published by ECHA in December 2020, it was clarified that boron compounds (e.g. boron trioxide, boric acid, disodium tetraborate) and lead compounds (e.g. lead oxide) used in the production of glass may not be present in these forms in the final glass products, and companies are not required to submit SCIP notifications for these items and are not required to comply with the information transmission obligations under Article 33 of the REACH Regulation. However, it is the responsibility of the company to confirm that the boron and lead compounds in the production process are completely converted into glass substances.
10. According to the same material declaration of client, sample No.1-161 test data of 235 substances of very high concern(SVHC) and photos are from sample No.1-161 of the report No. S23091802912001.
11. As specified by client, only test the designated sample.

**Sample photo(s):**



Fig.1 (Finished photo)



Fig.2 (Finished photo)



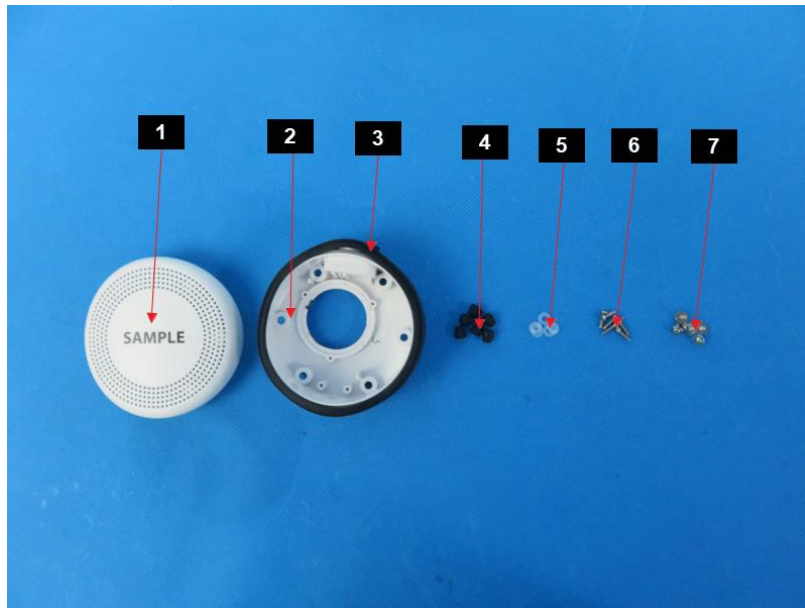


Fig.3

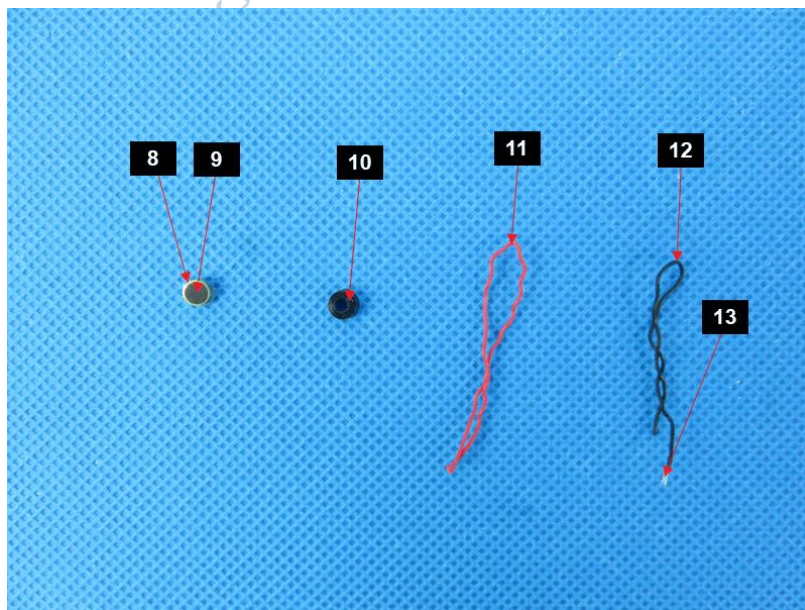


Fig.4



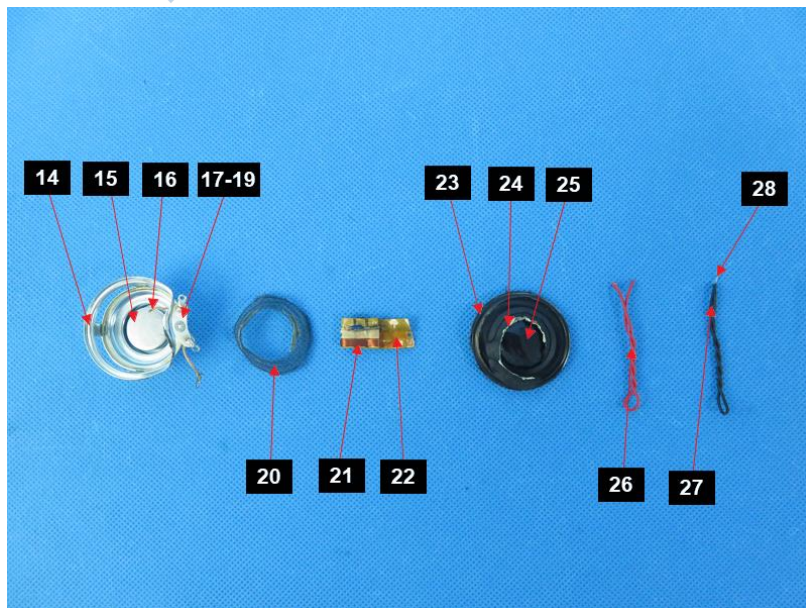


Fig.5

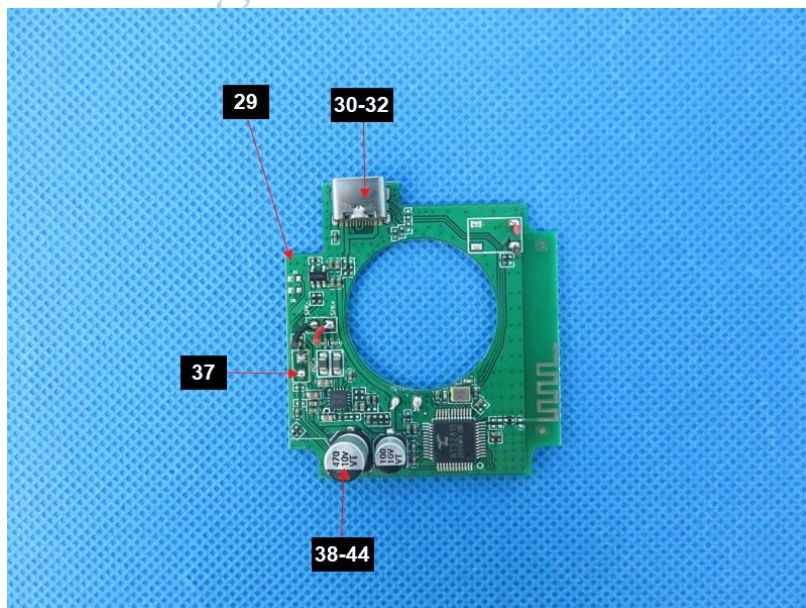


Fig.6

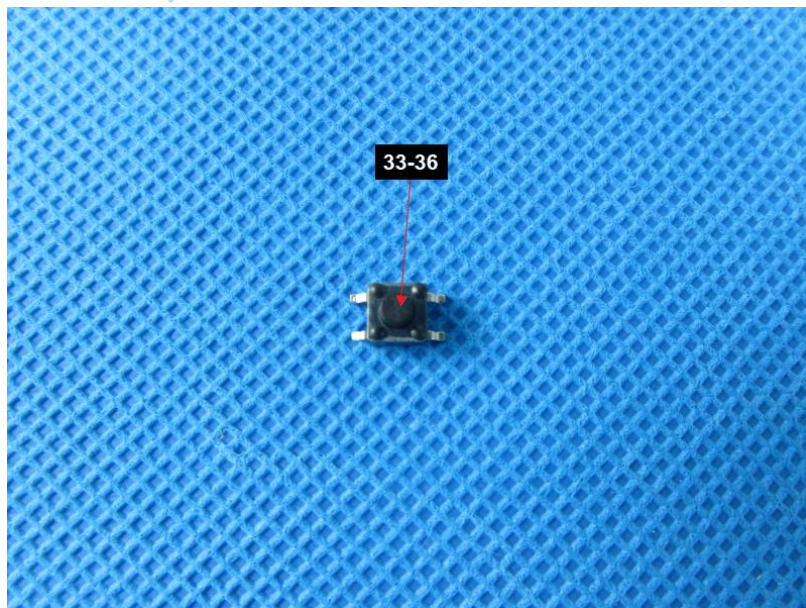


Fig.7

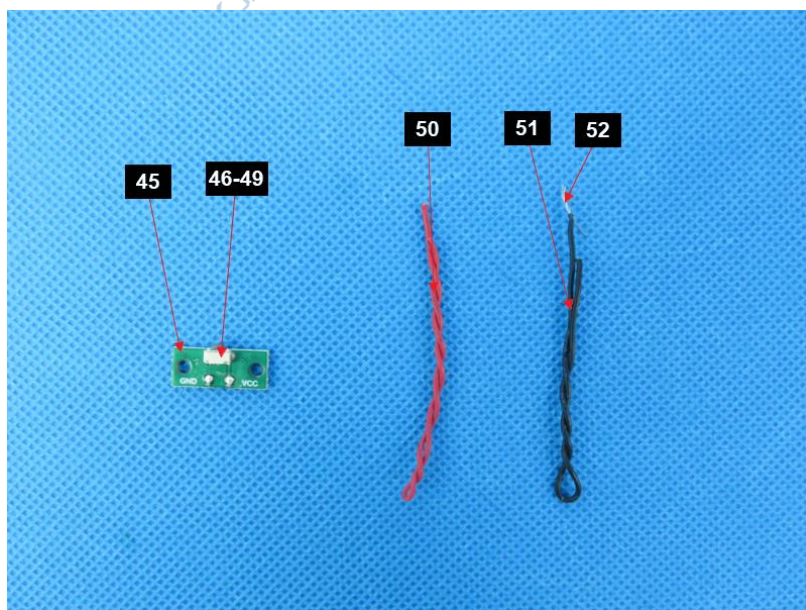


Fig.8



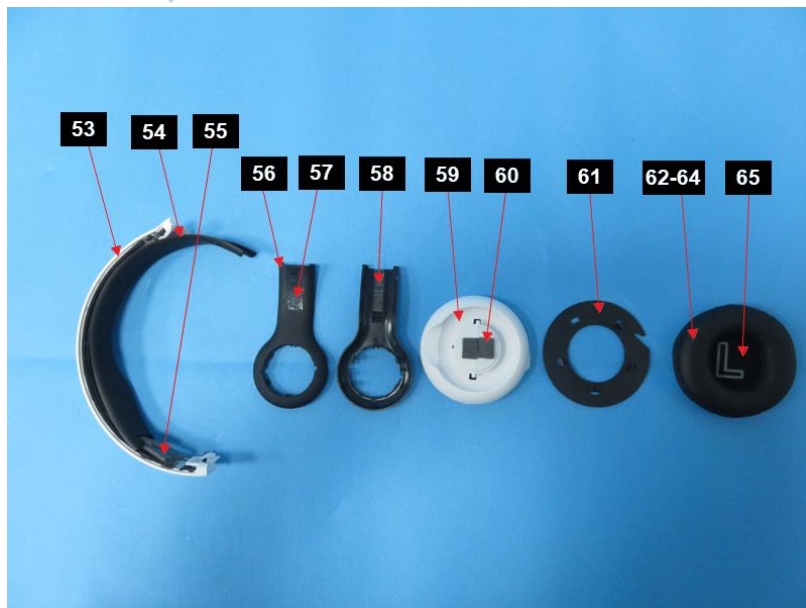


Fig.9

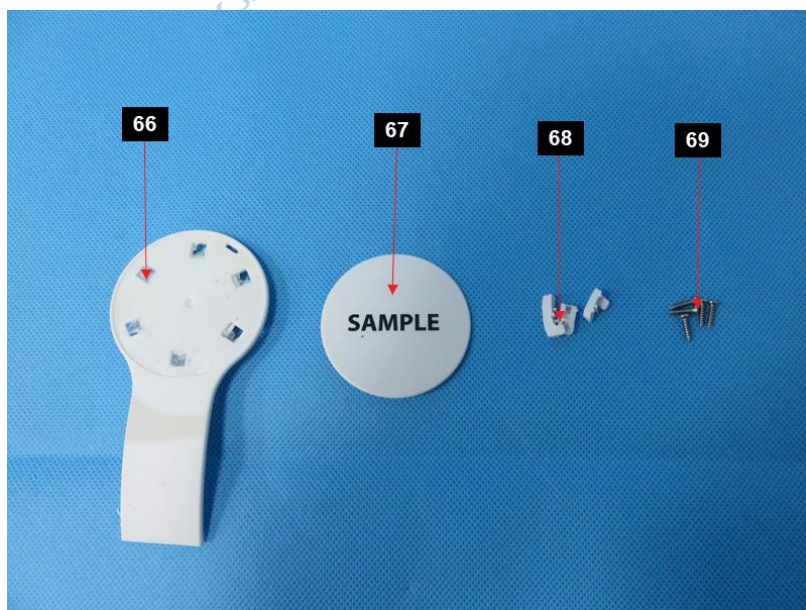


Fig.10

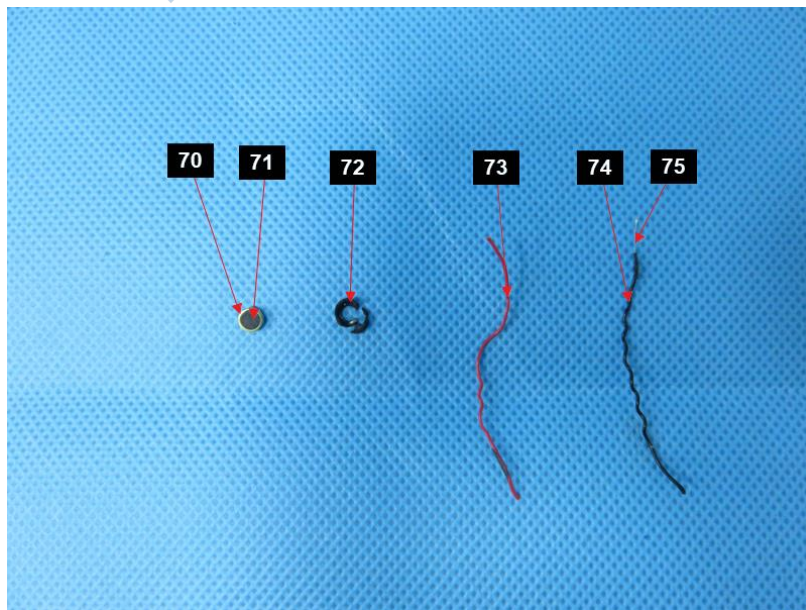


Fig.11

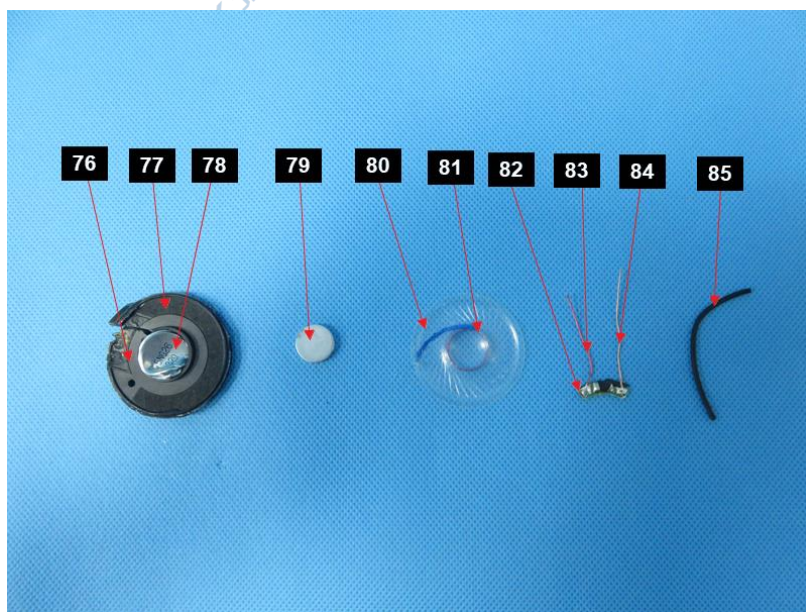


Fig.12



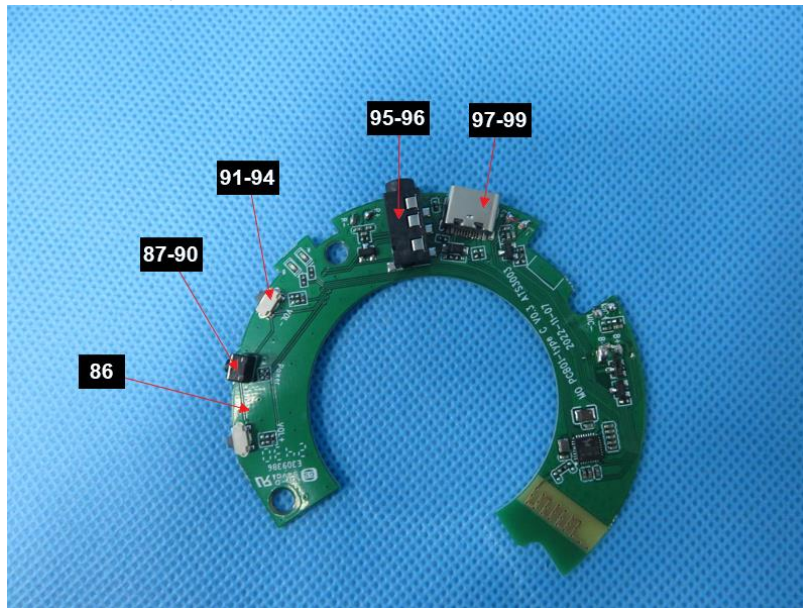


Fig.13

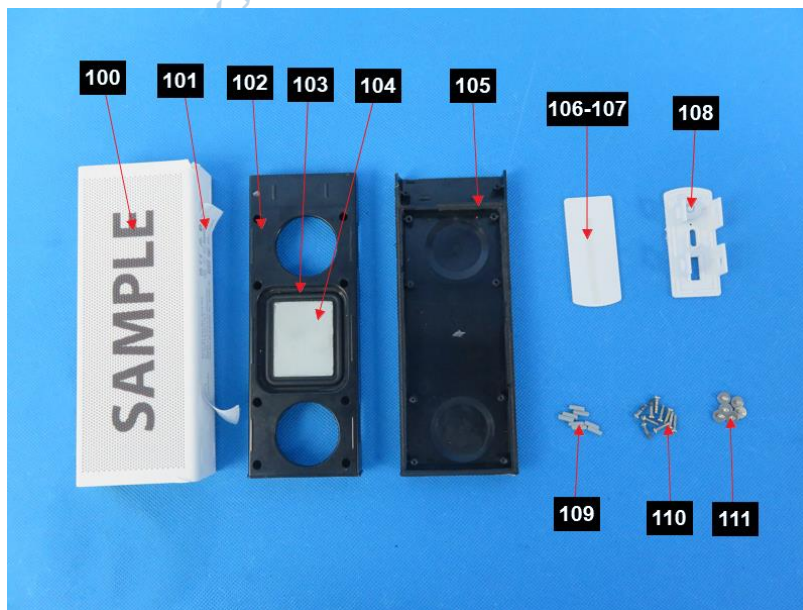


Fig.14





Fig.15

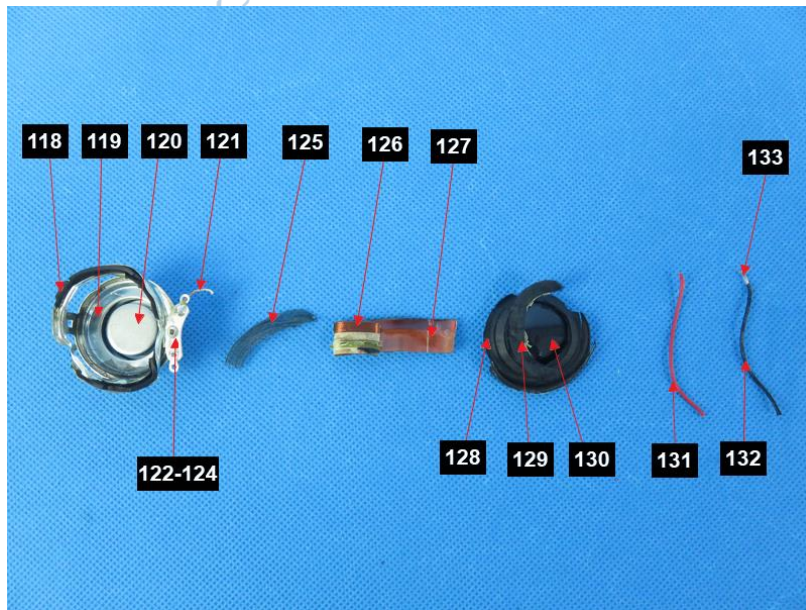


Fig.16

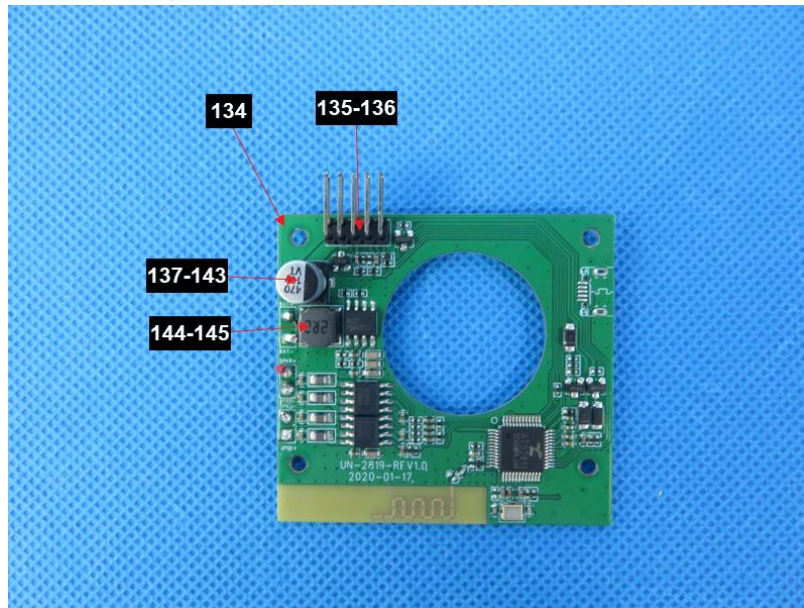


Fig.17

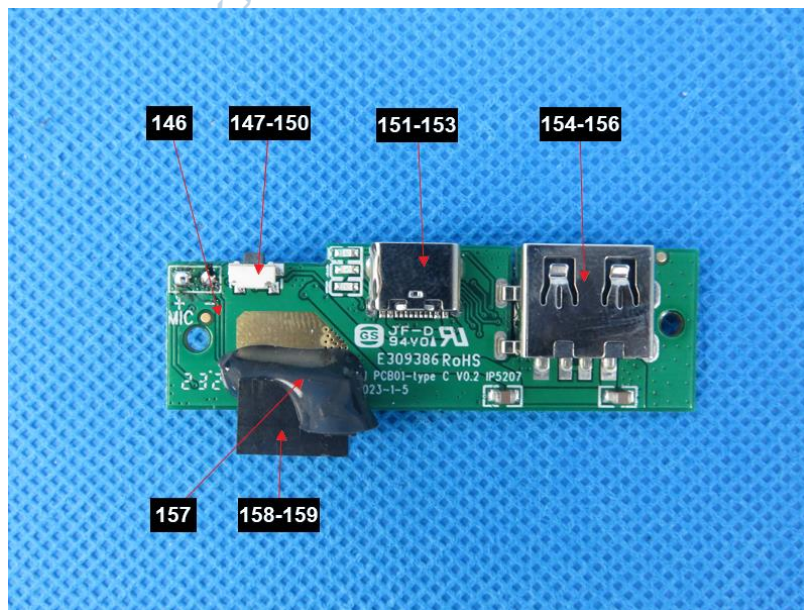


Fig.18



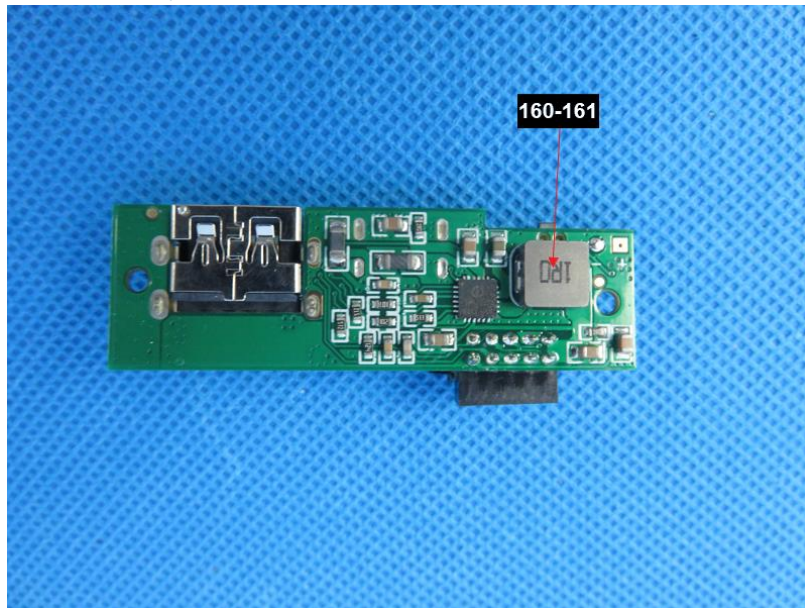


Fig.19

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

The test results or data in this report will be used only for education, scientific research, enterprise product development and internal quality control or other purposes.

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