



# TEST REPORT

**Applicant** : Shenzhen Baleka Technology Co., Ltd.  
**Address** : No. 505, 5th Floor, B3, Labor Community Mingyou Center, Xixiang Street,  
Baoan District, Shenzhen, Guangdong China

## REPORT ON THE SUBMITTED SAMPLE SAID TO BE:

**Sample name** : EMS Hot And Cold Skin Care Device  
**Manufacturer** : Shenzhen Baleka Technology Co., Ltd.  
**Address** : No. 505, 5th Floor, B3, Labor Community Mingyou Center, Xixiang Street,  
Baoan District, Shenzhen, Guangdong China  
**Brand Name:** : Baleka  
**Model** : D818, D868

**Testing period** : Apr. 10, 2020 to Apr. 17, 2020  
**Test request** : Selected test(s) as requested by client.  
**Test method** : Please refer to next page(s).  
**Test Result** : Please refer to next page(s).

Selected test (s) in the selected parts as requested by client with the

**Conclusion** : RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended  
by Directive (EU) 2017/2102.

**Signed for and on behalf of HSO**



**Frank Liu, Senior Manager**

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**Test Content:**

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm <sup>2</sup>	0.13	0.1
Hexavalent Chromium (CrVI)(Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate (DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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**Sample Description :**

No.	Name	Description
1	Cold and heat conduction metal sheet	Cold and heat conduction metal sheet
2	LCD screen	LCD screen
3	Charge jack	Charge jack
4	USB wire	White USB wire
5	Power switch	Power switch
6	LED red and blue light	LED red and blue light
7	Gear adjustment key	White gear adjustment key
8	EVA foam	EVA foam
9	Base part	White plastic base part
10	Screw hole plug	White screw hole plug
11	Electroplated metal parts	Silvery electroplated metal parts
12	Transparent makeup removing ring	Transparent makeup removing ring
13	PCBA	PCBA Board
14	Polymer battery	Polymer battery
15	USB port	USB port
16	Plastic shell	WhiteABS plastic shell
17	Yellow transparent tape	Yellow transparent tape
18	Fan	Black plastic fan
19	Thermistor	Thermistor
20	Motor	Motor
21	Massage head shell	Electroplated silver ABS massage head shell
22	Silicone ring	Silicone ring
23	Light plate light guide	Light plate light guide

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<b>24</b>	<b>Motor pressure plate</b>	<b>White ABS motor pressure plate</b>
<b>25</b>	<b>USB tail handle</b>	<b>Zinc alloy USB tail handle</b>
<b>26</b>	<b>Screw</b>	<b>Screw</b>
<b>27</b>	<b>Sticker</b>	<b>QS Sticker</b>

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**Test Results:**

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	----	N.D.	N.D.	N.D.	N.D.
PBDEs	----	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	----	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	----	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	----	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	----	N.D.	N.D.	N.D.	N.D.

Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.

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Test Item(s)	No.11	No.12	No.13	No.14	No.15
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	----
PBDEs	N.D.	N.D.	N.D.	N.D.	----
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	----
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	----
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	----
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	----

Test Item(s)	No.16	No.17	No.18	No.19	No.20
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	----
PBDEs	N.D.	N.D.	N.D.	N.D.	----
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	----
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	----
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	----
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	----

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Test Item(s)	No.21	No.22	No.23	No.24	No.25
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	----	----
PBDEs	N.D.	N.D.	N.D.	----	----
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	----	----
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	----	----
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	----	----
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	----	----

Test Item(s)	No.26	No.27		
Cadmium (Cd)	N.D.	N.D.		
Lead (Pb)	N.D.	N.D.		
Mercury (Hg)	N.D.	N.D.		
Hexavalent Chromium (CrVI)	N.D.	N.D.		
PBBs	N.D.	N.D.		
PBDEs	N.D.	N.D.		
Dibutyl Phthalate (DBP)	N.D.	N.D.		
Butyl benzyl phthalate (BBP)	N.D.	N.D.		
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.		
Diisobutyl phthalate (DIBP)	N.D.	N.D.		

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**Note:**

1. mg/kg= ppm
2. N.D.= Not Detected(<MDL)
3. MDL = Method Detection Limit
4. -- = No Testing
5. when Cr(VI) in a sample is detected below the 0.10  $\mu\text{g}/\text{cm}^2$  LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10  $\mu\text{g}/\text{cm}^2$  and 0.13  $\mu\text{g}/\text{cm}^2$  has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above 0.13  $\mu\text{g}/\text{cm}^2$ , the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

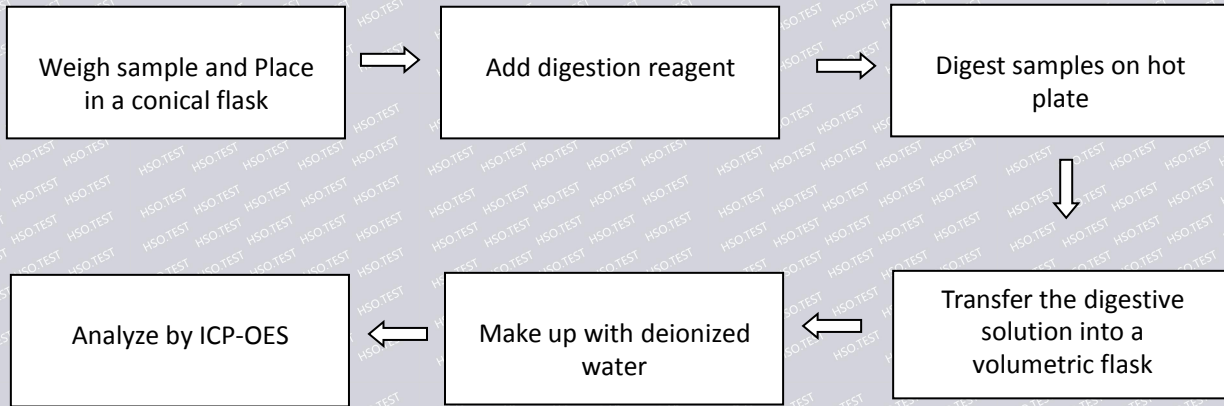
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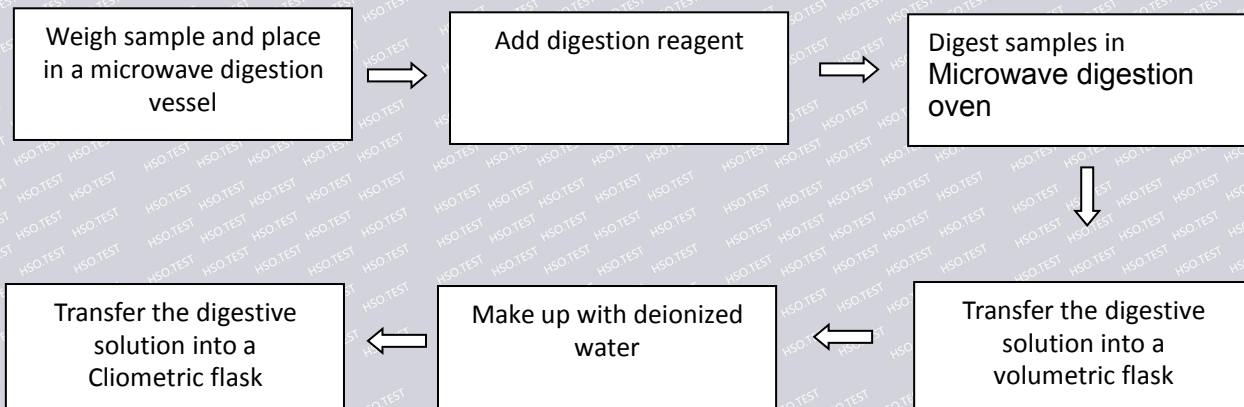


### Test Process:

#### 1. Test for Cd/Pb Content



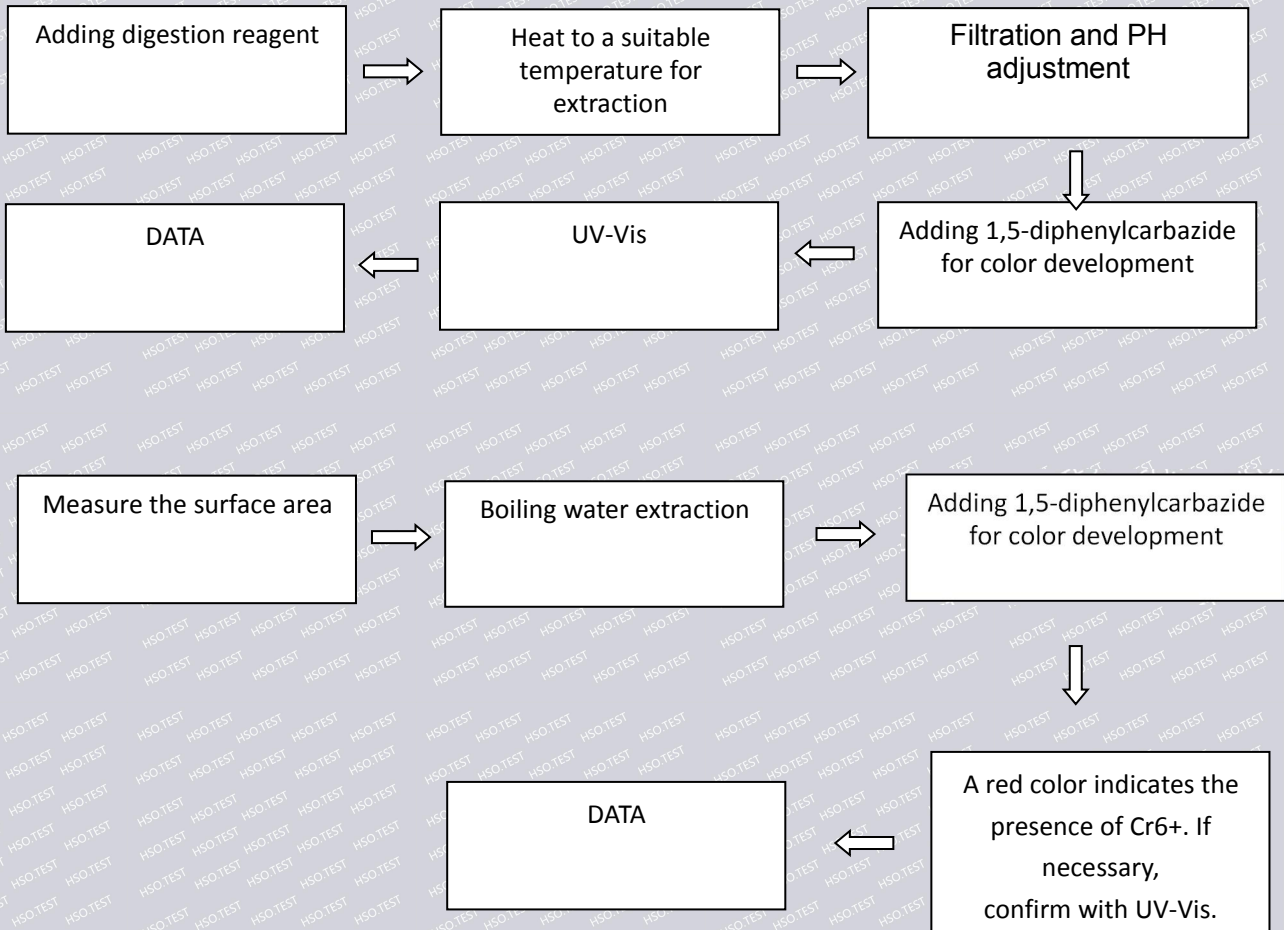
#### 2. Test for Hg Content



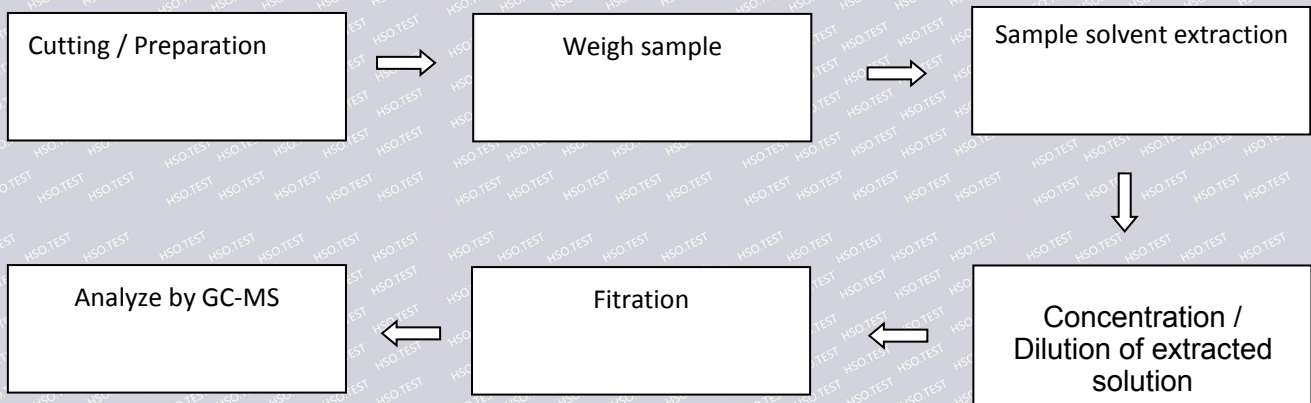
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### 3.Test for Chromium (VI) Content Nonmetal material



### 4.Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



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### Photo Documentation

Fig. 1



Fig.2



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Fig. 3



Fig. 4



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Fig. 5



Fig. 6



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Fig.7

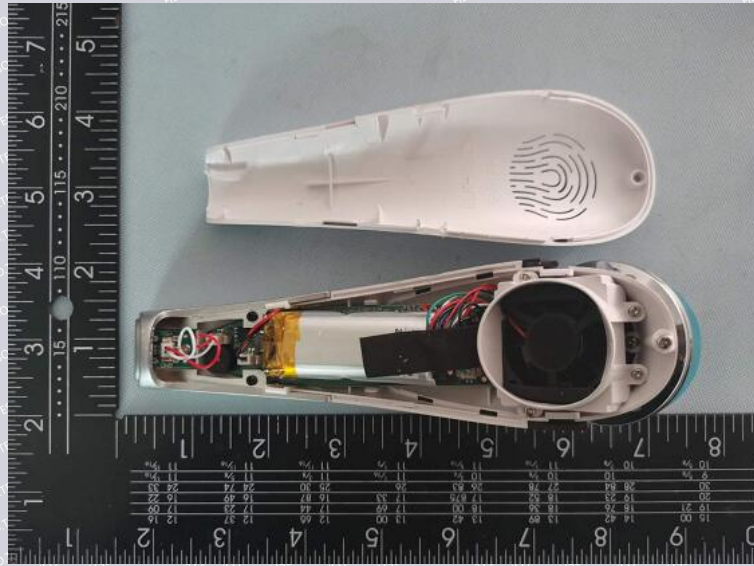
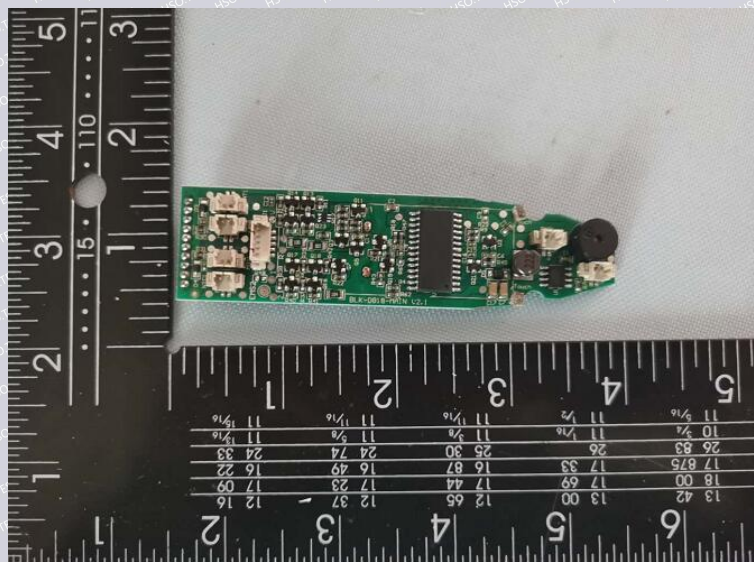


Fig.8



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Fig.9

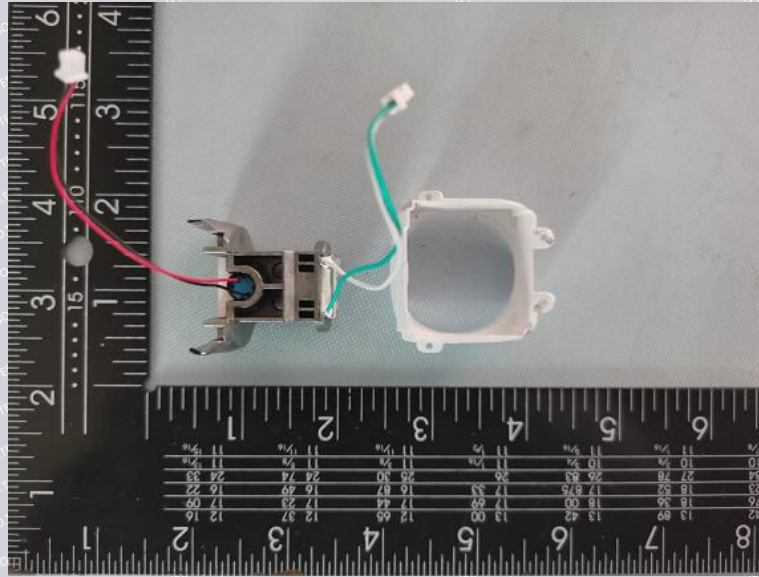
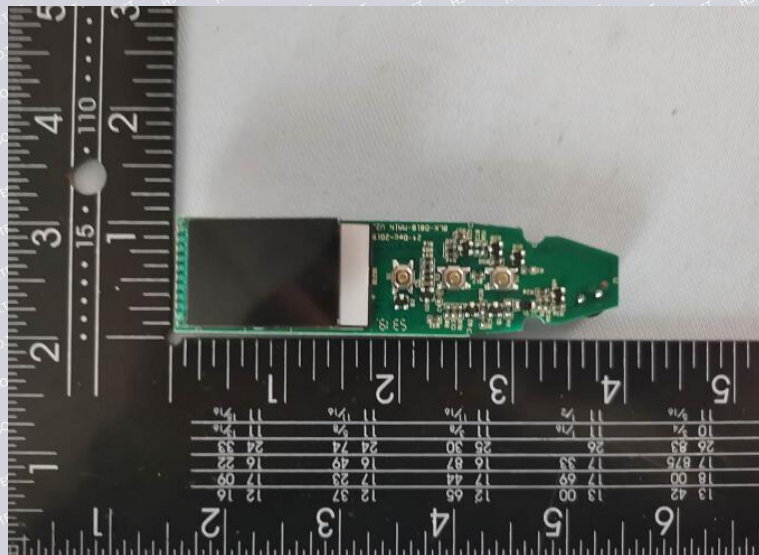


Fig.10



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Fig.11

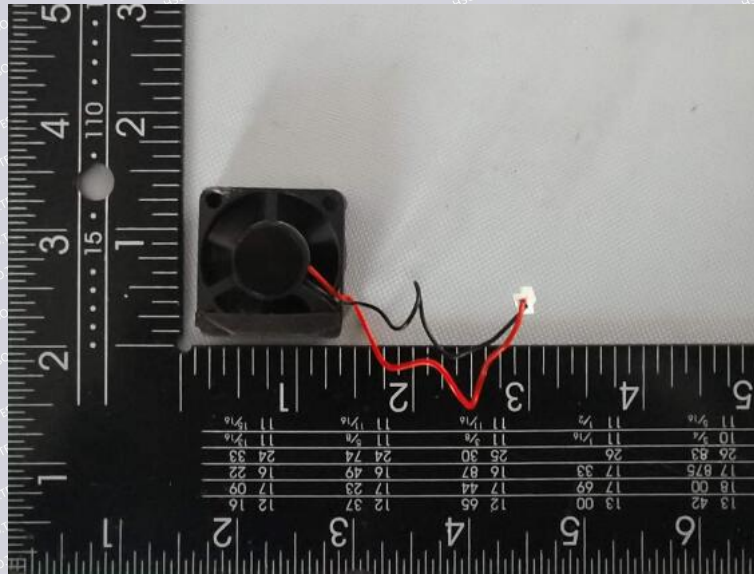
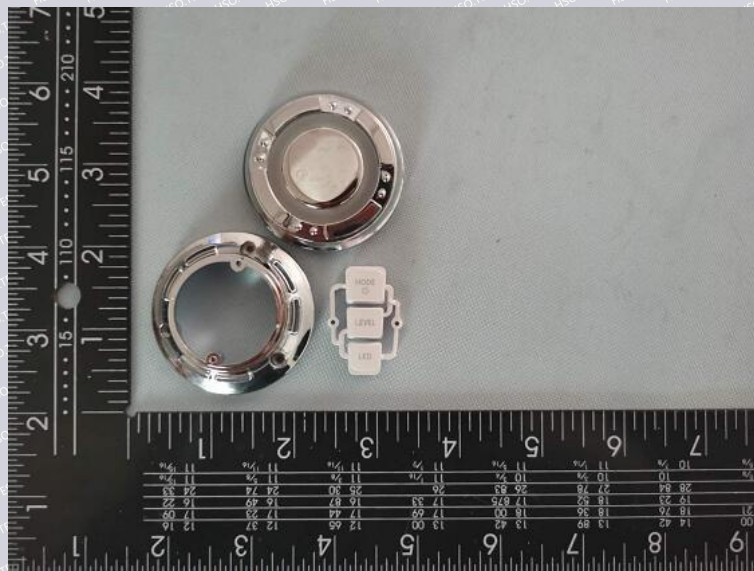


Fig.12



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Fig.13

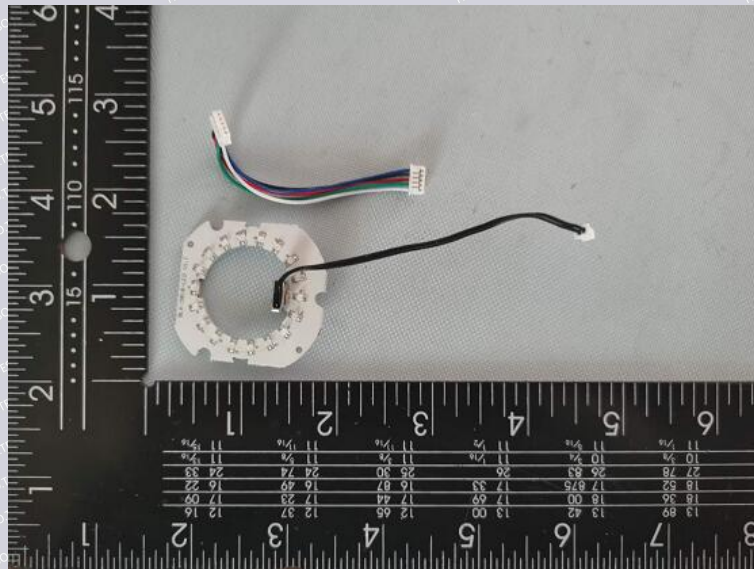
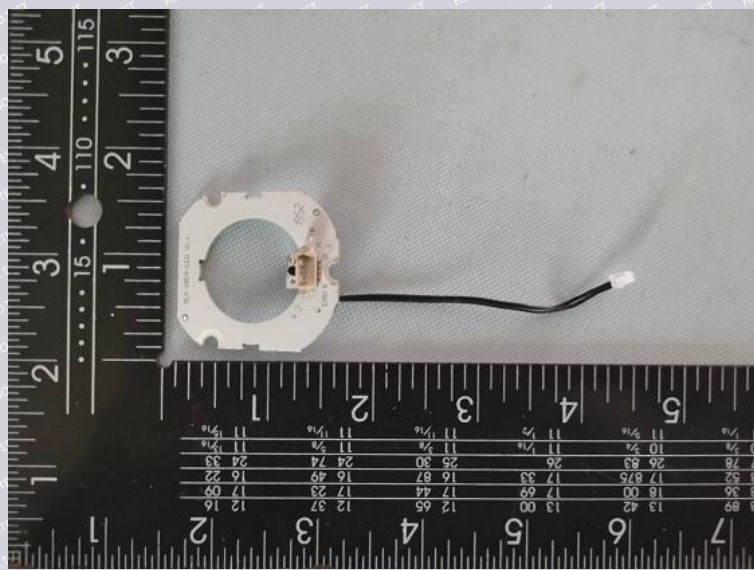


Fig.14



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Fig.15

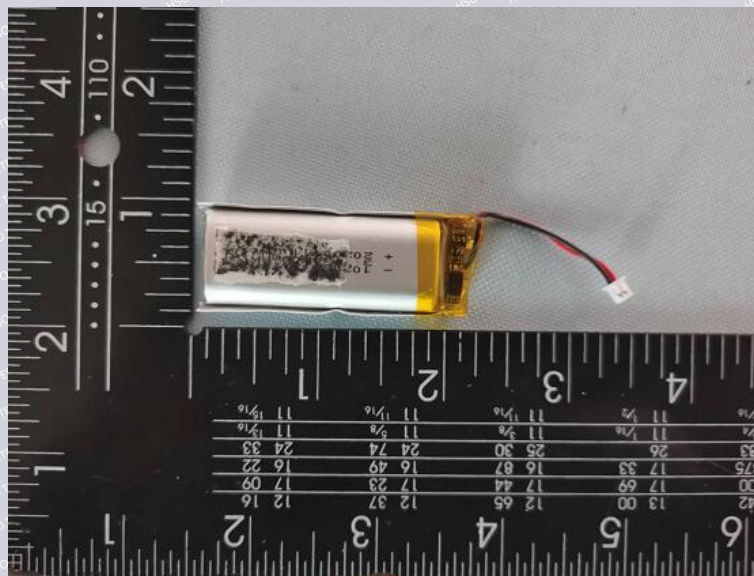
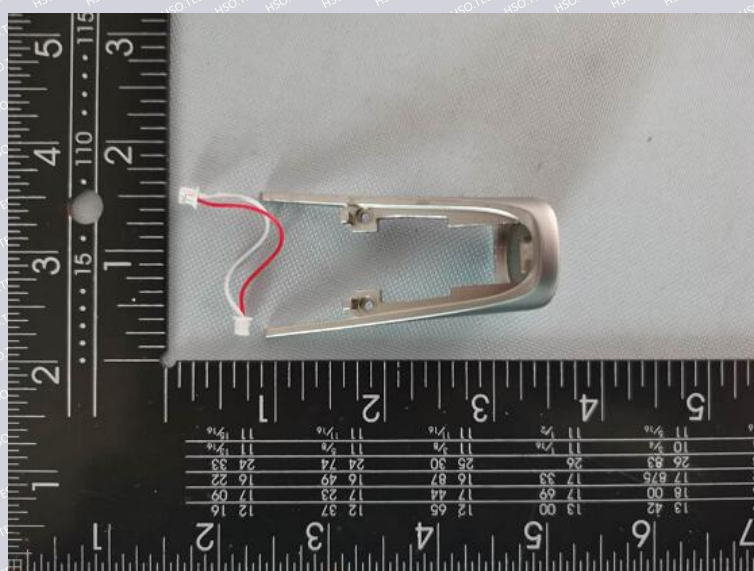


Fig.16



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Fig.17

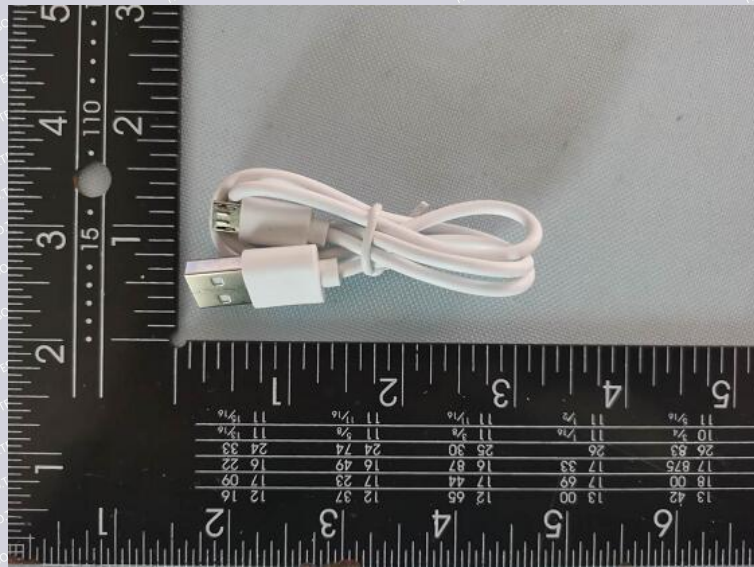
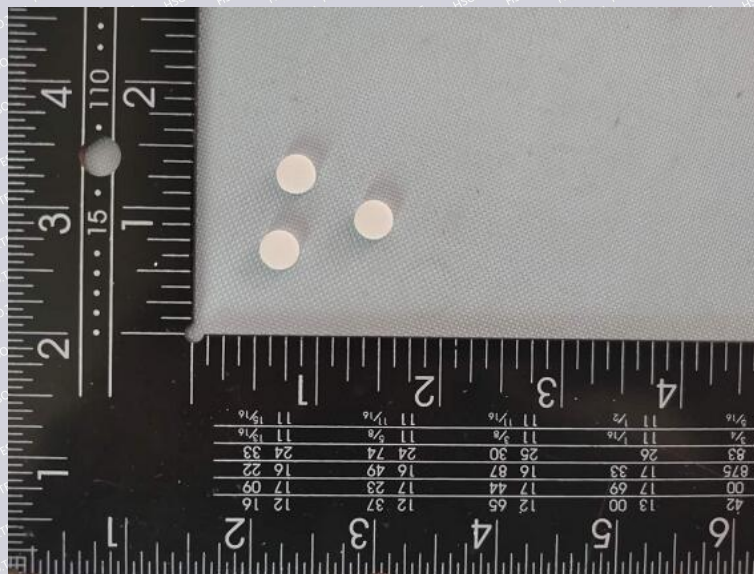


Fig.18



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Fig.19

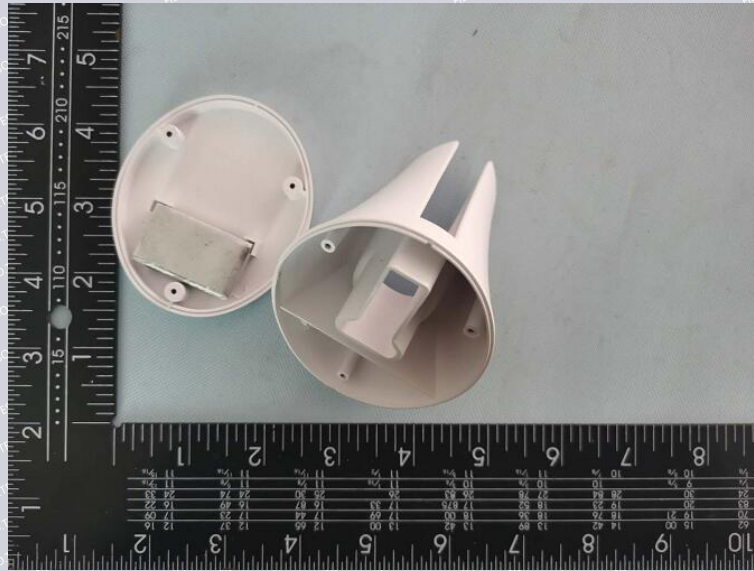


Fig.20



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Fig.21

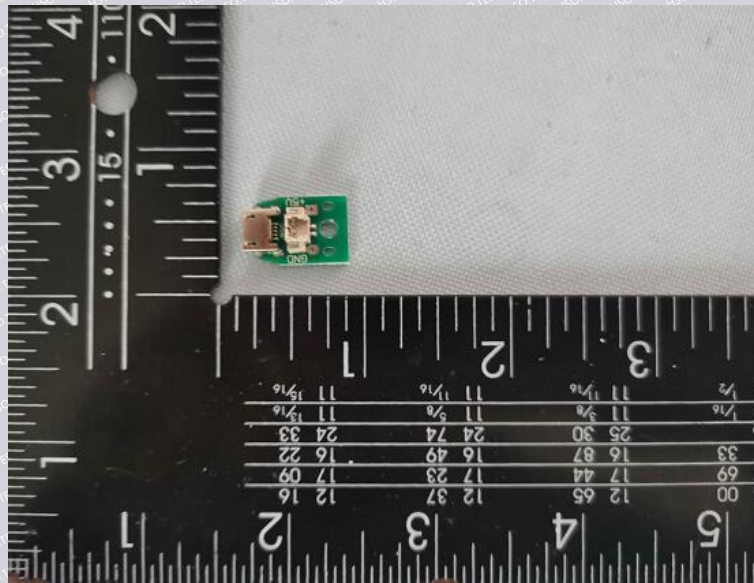
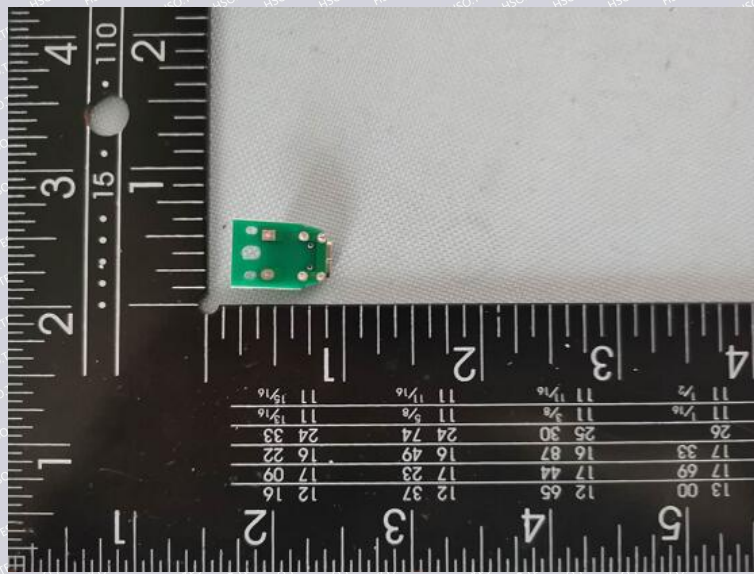


Fig.22



\*\*\*\*\*THE END OF REPORT\*\*\*\*\*

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