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FLASHBAY ELECTRONICS

BLGD B & C XI FENG CHENG IND ZONE,NO.2 FUYUAN ROAD HE PING, VILLAGE, FUYONG TOWN ,SHENZHEN,CHINA

Sample Name: Power Bank

SGS Job No.: CP18-024499 - SZ

Tested Basic Model No.

(P.O.No):

Foto

Date of Sample Received: 14 May 2018

Verification Period: 14 May 2018 - 02 Jul 2018

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Verification Method : Please refer to next page(s).

Verification Result : Please refer to next page(s).

Verification Conclusion: Based on the verification results of the submitted samples, the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Note: The test results are related only to the tested items. The report shall not be

reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of

Semylias

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jenny Liao

**Approved Signatory** 



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Verification Method:

- 1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.
- 2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
- (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy
- (2) Wet chemical test method
- a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES
- b.With reference to IEC 62321-5:2013, determination of Lead by ICP-OES c.With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES
- d.With reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 & ISO 17075-1:2017. determination of Hexavalent chromium by Colorimetric method using UV-Vis. e.With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
- 3. With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.



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In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	 Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	Pink plastic sheet w/ black	Pb	BL	 	Comply	
	printing	Cd	BL	 	Comply	14 May 2018
		Hg	BL	 	Comply	14 May 2010
		Cr(VI)▼	BL	 	Comply	
		PBBs	BL	 	Comply	
		PBDEs	BL	 	Comply	
		DBP		 ND	Comply	
		BBP		 ND	Comply	
		DEHP		 ND	Comply	
		DIBP		 ND	Comply	
2	Yellow translucent	Pb	BL	 	Comply	
_	adhesive plastic sheet	Cd	BL	 	Comply	14 May 2018
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs	BL	 	Comply	
		PBDEs	BL	 	Comply	
		DBP		 ND	Comply	
		BBP		 ND	Comply	
		DEHP		 ND	Comply	
		DIBP		 ND	Comply	
3	White plastic ring	Pb	BL	 	Comply	
•	process rang	Cd	BL	 	Comply	14 May 2018
		Hg	BL	 	Comply	1 1 + IVIAY 2010
		Cr(VI)▼	BL	 	Comply	
		PBBs	BL	 	Comply	
		PBDEs	BL	 	Comply	
		DBP		 ND	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
4	Black adhesive sponge	Pb	BL			Comply	
	sheet	Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	14 May 2010
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
5	Silvery metal sheet	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	14 May 2010
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
6	Silvery metal solder	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	11 May 2010
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
7	Red plastic (wire	Pb	BL			Comply	
	insulation)	Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	14 May 2010
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
8	Black plastic (wire	Pb	BL			Comply	
	insulation)	Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	1 1-4 IVIQY 2010
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		 ND	Comply	
		DEHP		 ND	Comply	
		DIBP		 ND	Comply	
9	Black plastic (heat	Pb	BL	 	Comply	
	shrinkable tube)	Cd	BL	 	Comply	14 May 2018
		Hg	BL	 	Comply	14 May 2010
		Cr(VI)▼	BL	 	Comply	
		PBBs	BL	 	Comply	
		PBDEs	BL	 	Comply	
		DBP		 ND	Comply	
		BBP		 ND	Comply	
		DEHP		 ND	Comply	
		DIBP		 ND	Comply	
10	Silvery metal pin	Pb	BL	 	Comply	
		Cd	BL	 	Comply	14 May 2018
		Hg	BL	 	Comply	14 May 2010
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	 Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
11	Transparent body (LED)	Pb	BL	 	Comply	
		Cd	BL	 	Comply	14 May 2018
		Hg	BL	 	Comply	i i may 2010
		Cr(VI)▼	BL	 	Comply	
		PBBs	IN	 ND	Comply	
		PBDEs	IN	 ND	Comply	
		DBP		 ND	Comply	
		BBP		 ND	Comply	
		DEHP		 ND	Comply	
		DIBP		 ND	Comply	
12	Black body	Pb	BL	 	Comply	
		Cd	BL	 	Comply	14 May 2018
		Hg	BL	 	Comply	14 Way 2016
		Cr(VI)▼	BL	 	Comply	
		PBBs	BL	 	Comply	
		PBDEs	BL	 	Comply	
		DBP		 ND	Comply	
		BBP		 ND	Comply	
		DEHP		 ND	Comply	
		DIBP		 ND	Comply	
13	Black adhesive plastic	Pb	BL	 	Comply	
-	sheet	Cd	BL	 	Comply	14 May 2018
		Hg	BL	 	Comply	1 1 T IVIAY 2010
		Cr(VI)▼	BL	 	Comply	
		PBBs	BL	 	Comply	
		PBDEs	BL	 	Comply	
		DBP		 ND	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		 ND	Comply	
		DEHP		 ND	Comply	
		DIBP		 ND	Comply	
14	Silvery metal shell	Pb	BL	 	Comply	
		Cd	BL	 	Comply	14 May 2018
		Hg	BL	 	Comply	14 May 2010
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		
15	Silvery metal pin	Pb	BL	 	Comply	
		Cd	BL	 	Comply	14 May 2018
		Hg	BL	 	Comply	14 May 2010
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
16	Beige plastic part	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	may 2010
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
17	Beige plastic part	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	14 May 2010
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
18	Black plastic button	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	1 + IVIAY 2010
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	 Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		 ND	Comply	
		DEHP		 ND	Comply	
		DIBP		 ND	Comply	
19	Silvery metal pin	Pb	BL	 	Comply	
		Cd	BL	 	Comply	14 May 2018
		Hg	BL	 	Comply	14 May 2010
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		
20	Silvery metal shell	Pb	BL	 	Comply	
		Cd	BL	 	Comply	14 May 2018
		Hg	BL	 	Comply	Trimay 2010
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
21	Black plastic part	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	11 May 2010
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
22	Golden metal pin	Pb	BL			Comply	
	Joseph Market Pro-	Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	14 Way 2010
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
23	Green "PCB"	Pb	BL			Comply	
20	0.0011 1 0.0	Cd	BL			Comply	14 May 2040
		Hg	BL			Comply	14 May 2018
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP					
		DEHP					
		DIBP					
24	Silvery metal solder	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	14 May 2010
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
25	White plastic cover	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	Trimay 2010
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
26	White plastic part	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	14 May 2010
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
27	White adhesive plastic	Pb	BL			Comply	
	sheet w/ multicolor	Cd	BL			Comply	14 May 2018
	printing	Hg	BL			Comply	14 May 2010
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
28	Black plastic part	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	1 + 1   1   1   2   1   0
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
29	Black plastic part	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	14 May 2010
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
30	Transparent plastic shell	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	11 May 2010
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
31	White plastic part	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	Trimay 2010
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
32 -C#	White plastic part	Pb	BL			Comply	
		Cd	BL			Comply	08 Jun 2018
		Hg	BL			Comply	00 3411 20 10
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
33 -C	Transparent plastic part	Pb	BL			Comply	
		Cd	BL			Comply	14 May 2018
		Hg	BL			Comply	08 Jun 2018
		Cr(VI)▼	BL			Comply	00 0011 20 10
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	 Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		 ND	Comply	
		DEHP		 ND	Comply	
		DIBP		 ND	Comply	



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#### Remark:

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).
  - (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg).

Element	Polymer	Metal	Composite Materials		
Cd	BL ≤(70-3σ)< X <(130+3σ)≤OL	BL ≤(70-3σ)< X <(130+3σ)≤OL	LOD < X <(150+3σ)≤ OL		
Pb	BL ≤(700-3σ)< X<(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X<(1500+3σ)≤ OL		
Hg	BL $\leq$ (700-3 $\sigma$ )< X $<$ (1300+3 $\sigma$ ) $\leq$ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL		
Br	BL ≤ (300-3σ)< X		BL ≤ (250-3σ)< X		
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X		

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.
- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg)

Compound	Polymer			
DBP	BL ≤ 600< X			
BBP	BL ≤ 600< X			
DEHP	BL ≤ 600< X			
DIBP	BL ≤ 600< X			

- (3) (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, = Without BOM.
  - (b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg						
MDL	10	10	10	100	100	100	100



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The MDL for single compound of PBBs and PBDEs is 100 mg/kg, MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg, MDL of Cr(VI) for metal sample is 0.10µg/cm<sup>2</sup>.

#### (c) ▼ =Metal sample

- a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI
- b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10  $\mu g/cm^2$ ). The coating is considered a non-CrVI based coating
- c. The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive 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.

IEC 62321 series is equivalent to EN 62321 series
<a href="http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP">http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP</a> ORG ID,FSP LANG ID:1258637, 25>

- (4) #=According to the declaration from applicant, the materials of "part No.32-C" is the same as those in "report No.CANEC1809071101- part No.31-C", and its results for support the results of "part No.32-C". The applicant will take the responsibility of all discrepancy and risk.
- (5) Results & Photos of No.1~No.24 in this report refer to verification report CANEC1809070901 No.1~No.24.



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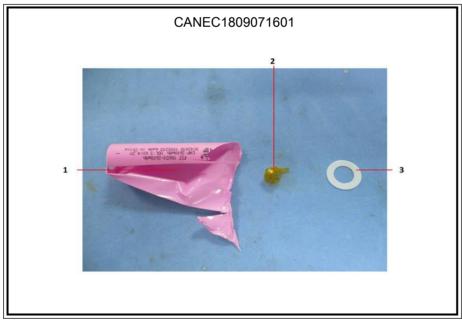
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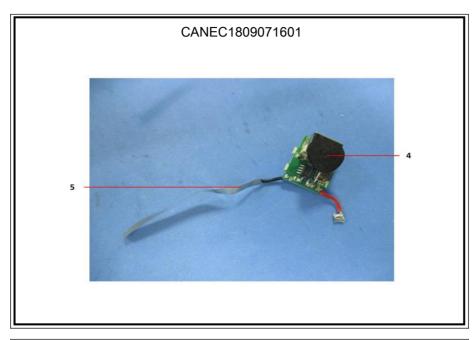
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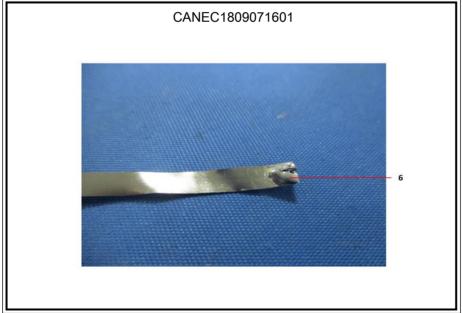


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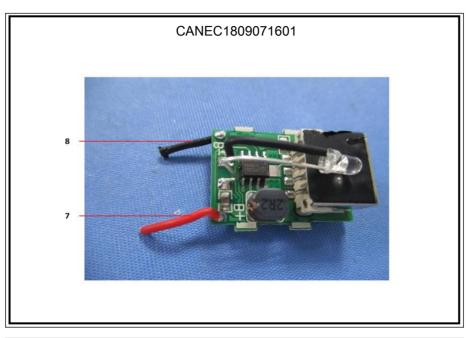
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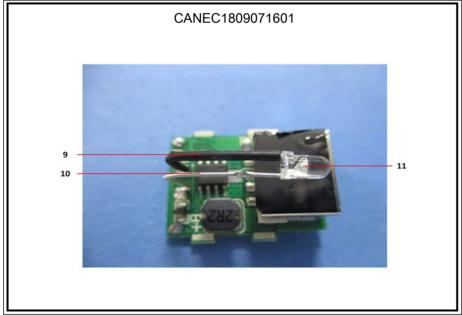
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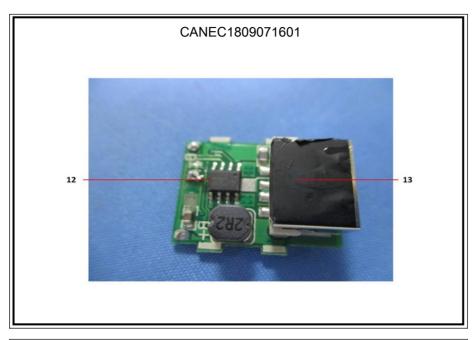
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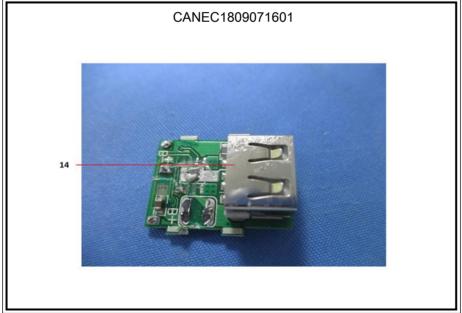
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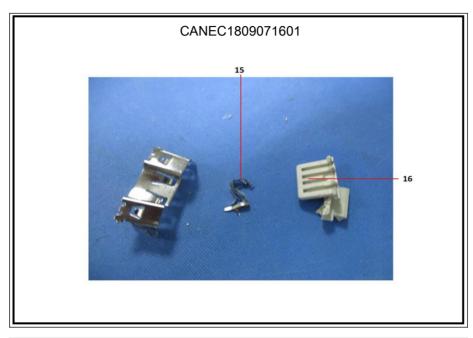
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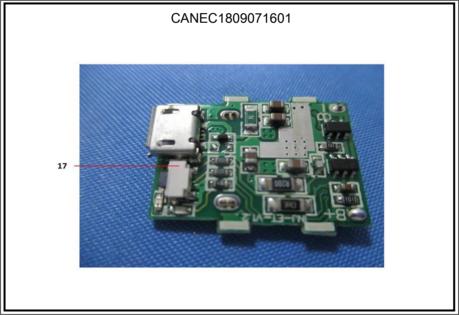
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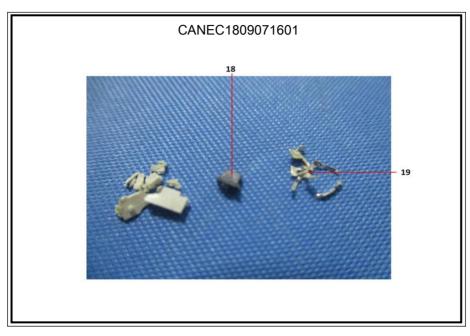
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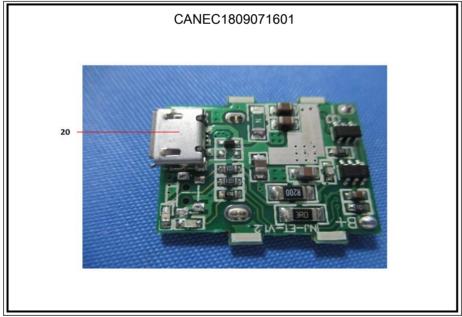


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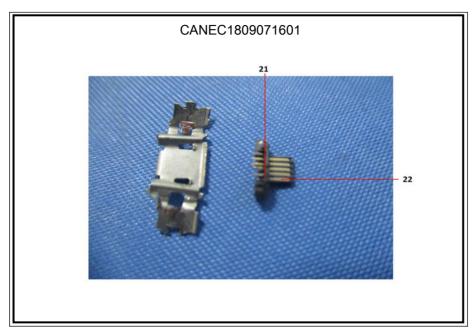
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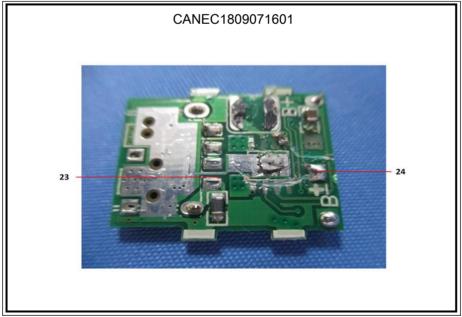


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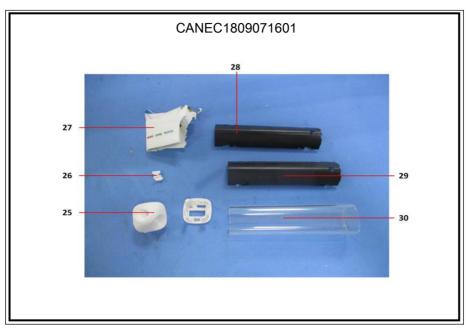
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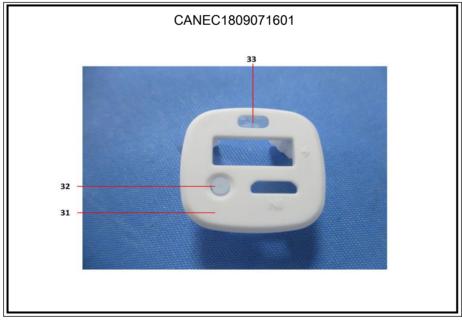
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SGS authenticate the photo on original report only \*\*\* End of Report \*\*\*



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