

#### Verification Report No. CANEC1618780901 Date: 10 Oct 2016

FLASHBAY ELECTRONICS

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

Sample Name: Power Bank

CP16-060230 - SZ SGS Job No.:

Tested Basic Model No.

(P.O. No.):

Core

23 Sep 2016 Date of Sample Received:

Verification Period: 23 Sep 2016 - 10 Oct 2016

Verification Requested: With reference to RoHS Directive 2015/863/EU 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) do not exceed 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

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, determination of Mercury by ICP-OES
- d. With reference to IEC 62321-7-1:2015 & IEC 62321:2008, 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



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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	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	White plastic part	_	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
2	Blue plastic shell	_	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	20 000 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
3	Transparent adhesive	-	Pb	BL		Comply	23 Sep 2016
	plastic tape w/ white		Cd	BL		Comply	'
	printing		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
4	White plastic part	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
5	Black plastic shell	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
6	Black plastic part	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
7	Brown plastic sheet	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
8	Black adhesive sponge	-	Pb	BL		Comply	23 Sep 2016
	sheet		Cd	BL		Comply	,
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
9	Silvery metal part	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	· I
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
10	Silvery metal solder	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
11	Green "PCB"	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
12	Black body	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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13	Silvery metal shell	_	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	,
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
14	White plastic part	_	Pb	BL		Comply	23 Sep 2016
	' '		Cd	BL		Comply	20 00p 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
15	Silvery metal pin	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	,
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
16	Red plastic (wire	-	Pb	BL		Comply	23 Sep 2016
	insulation)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
17	Silvery metal solder	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	,
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
18	Silvery metal sheet	-	Pb	BL		Comply	23 Sep 2016
	,		Cd	BL		Comply	20 00p 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
19	Black plastic (wire	-	Pb	BL		Comply	23 Sep 2016
	insulation)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
20	Silvery metal solder	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	' '
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
21	Silvery metal shell	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	i i
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
22	Black plastic part	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	20 00p 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
23	Golden metal pin	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
24	Beige plastic shell	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
25	Black plastic switch	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
26	Silvery metal pin	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
27	Silvery metal part	-	Pb	BL		Comply	23 Sep 2016
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				



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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 $\leq$ (70-3 $\sigma$ )< X $<$ (130+3 $\sigma$ ) $\leq$ 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) (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	
Unit	mg/kg	mg/kg	mg/kg	
MDL	10	10	10	

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



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- (c) ▼ =Metal sample
  - a. The sample is positive for CrVI if the CrVI concentration is greater than  $0.13~\mu g/cm^2$ . 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\_ORG\_ID,FSP\_LANG\_ID:1258637">http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:1258637</a>, 25>



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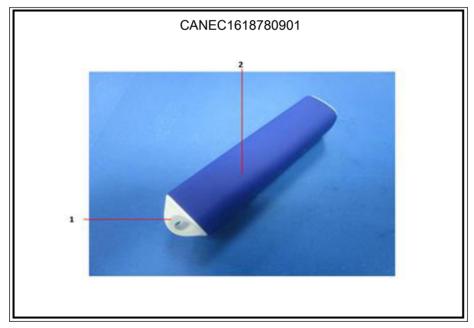
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Sample photo:







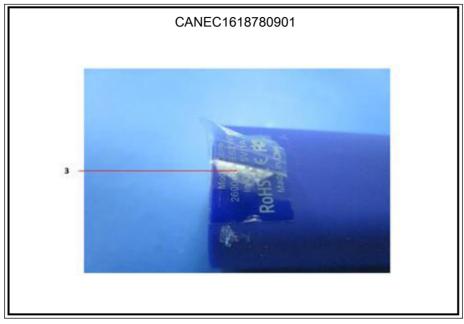
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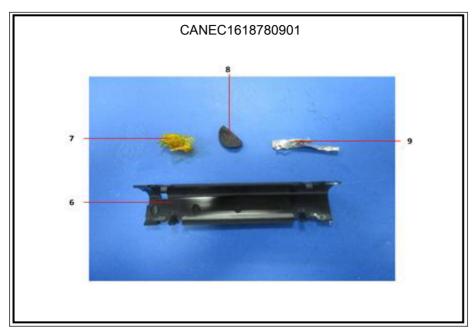
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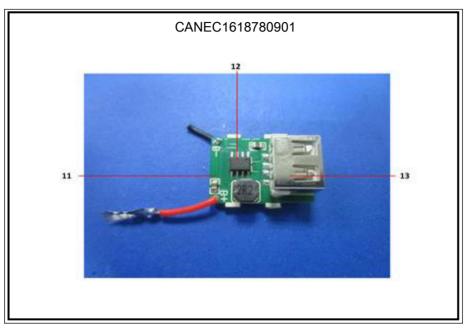
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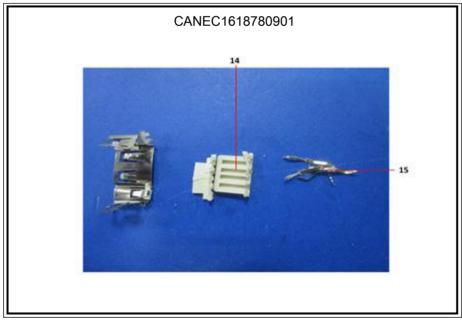


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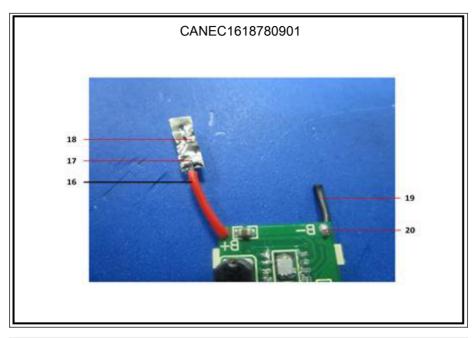
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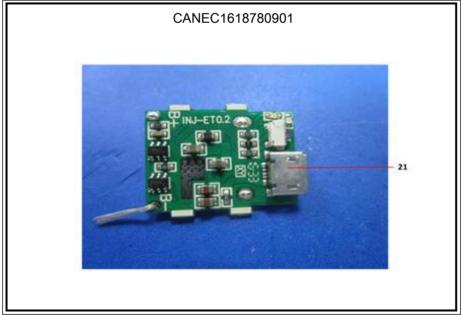


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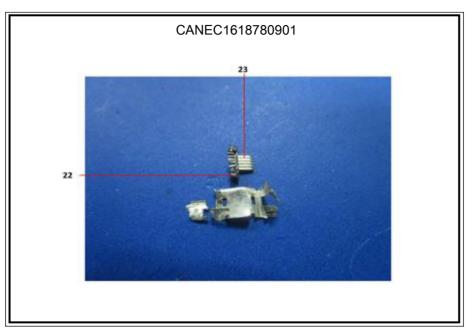
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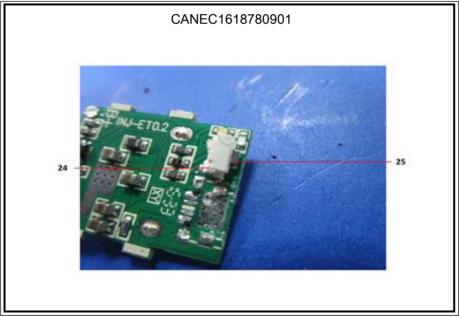
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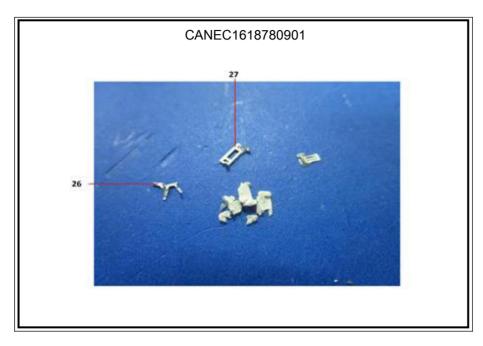
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