

Verification Report

No. CANEC2011539201

Date: 10 Aug 2020

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FLASHBAY ELECTRONICS

BLDG B, XIFENGCHENG INDUSTRIAL PARK, NO.2 FUYUAN RD, 2ND HIGH-TECH AREA, HEPING,
FUYONG, BAOAN, SHENZHEN 518103, GUANGDONG, CHINA

Sample Name : USB Flash Drives
SGS Job No. : CP20-035276 - SZ
Tested Basic Model No. : Walletstick
(P.O.No) :
Date of Sample Received : 10 Jul 2020
Verification Period : 10 Jul 2020 - 10 Aug 2020
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.

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+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.



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) | Screening Result of PHTH(2) | Result of Wet Chemical Testing(3) (mg/kg) | Conclusion on EU RoHS | Sample Submitted / Resubmitted Date |
|----------|--------------------|-----------------------|---------------------|-----------------------------|---|-----------------------|-------------------------------------|
| 1 | Silvery metal part | Pb | BL | --- | --- | Comply | 10 Jul 2020 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▼ | IN | --- | ND | Comply | |
| | | PBBs | --- | --- | --- | --- | |
| | | PBDEs | --- | --- | --- | --- | |
| | | DBP | --- | --- | --- | --- | |
| | | BBP | --- | --- | --- | --- | |
| | | DEHP | --- | --- | --- | --- | |
| | | DIBP | --- | --- | --- | --- | |
| 2 | Black body | Pb | BL | --- | --- | Comply | 10 Jul 2020 |
| | | Cd | BL | --- | --- | Comply | |
| | | 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 | |



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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 | $BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$ | $BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$ | $LOD < X < (150+3\sigma) \leq OL$ |
| Pb | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$ |
| Hg | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$ |
| Br | $BL \leq (300-3\sigma) < X$ | -- | $BL \leq (250-3\sigma) < X$ |
| Cr | $BL \leq (700-3\sigma) < X$ | $BL \leq (700-3\sigma) < X$ | $BL \leq (500-3\sigma) < X$ |

(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 | $BL \leq 600 < X$ |
| BBP | $BL \leq 600 < X$ |
| DEHP | $BL \leq 600 < X$ |
| DIBP | $BL \leq 600 < X$ |

(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 | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| MDL | 10 | 10 | 10 | 100 | 100 | 100 | 100 |

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/cm².



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(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 µg/cm²).

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.

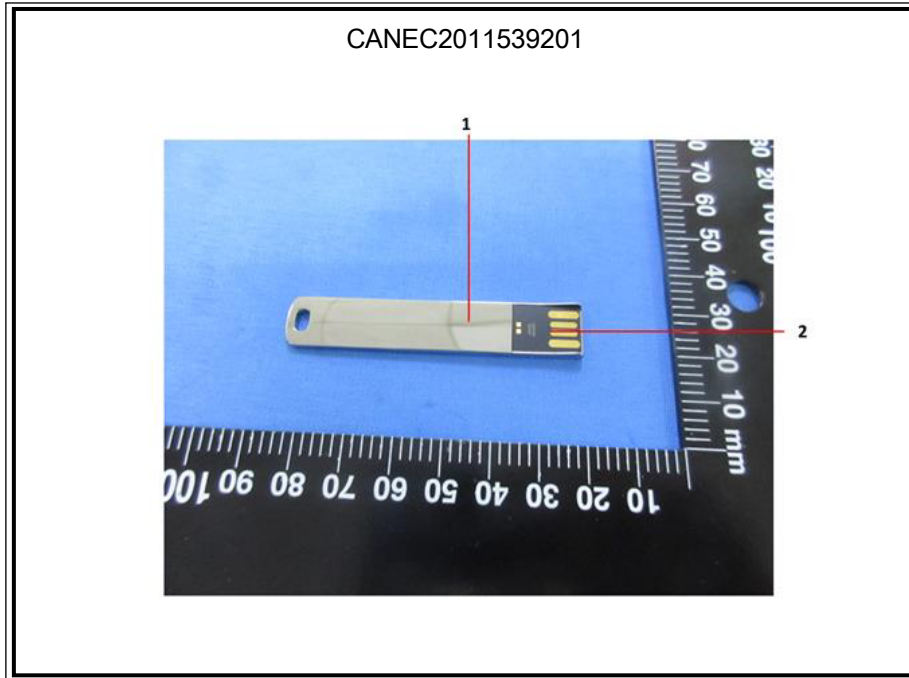
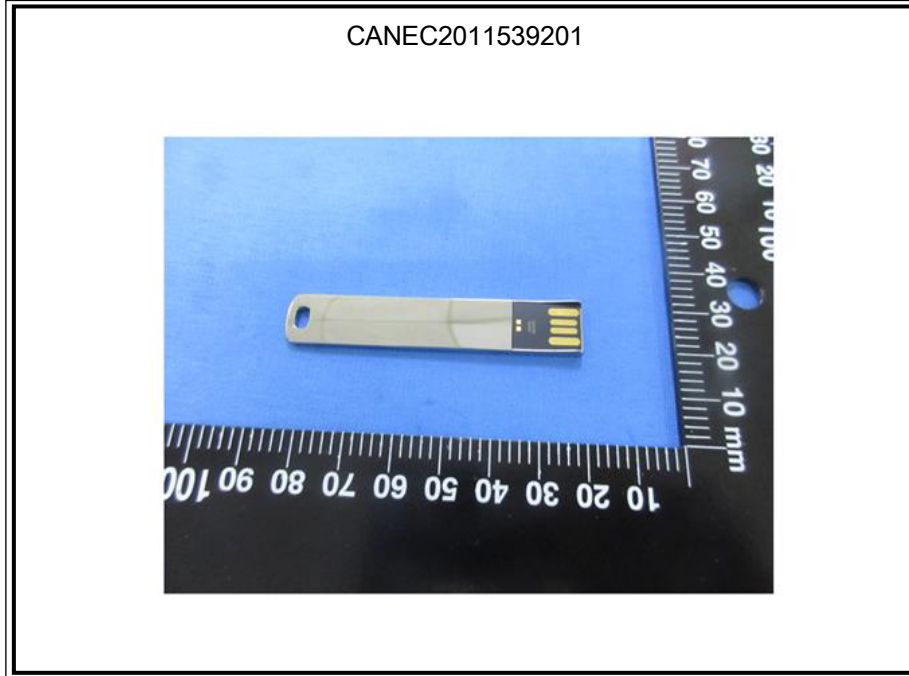
(4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25



Sample photo:



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