## Verification Report

Report No. A2190208782101001

## CENTRE TESTING INTERNATIONAL




#### Abstract

Applicant SHANGHAI YONGJI ELECTRICAL CO.,LTD. /JOVEAN \& ROGY ELECTRICAL HOLDING CO.,LTD. OFWENZHOU /ZHEJIANG YONGJI ELECTRICAL CO.,LTD. Address

Product Name Product Part No. NO.2239, SOUTH JINSHI ROAD, JINSHANWEI TOWN, JINSHAN DISTRICT, SHANGHAI, P.R.CHINA/NO.132, XINGUANG ROAD, XINGUANG INDUSTRIAL ZONE,LIUSHI TOWN,YUEQING CITY ZHEJIANG PROVINCE, P.R. CHINA /NO.788, NANMING ROAD, LISHUI ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE,LISHUI CITY ZHEJIANG PROVINCE,P.R. CHINA RCCB RCCB JVL16-63,JVL1-63, JVL66-63, JVL11-63,JVL11-32, JVL16-100, JVL7-125, Information JVL22-63, JVL15-63,JVL4-63, JVL19-63, JVL29-63, JVRO16-32, JVL16-40, JVL5-40, FI-100, JVL6-32, JVL16-32, JVRO27-63,JVL16-63-B,JVRO16-32-B




## Conclusion

| Tested Sample | According to standard/directive | Result |
| :---: | :---: | :---: |
| Submitted Sample | RoHS Directive 2011/65/EU withamendment (EU) 2015/863 | PASS |

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment(EU) 2015/863.


## Verification Report

Report No．A2190208782101001
Page 2 of 51

## Report Content

Sample Information．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1
Test Requested．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 3
Photo（s）of the Product（s）．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 3
Test Method．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 4
Test Result（s）．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 6
Test Process ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 30
Photo（s）of the tested component（s）．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 33
Exempted Items of RoHS Directive ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 39

## Verification Report

Report No．A2190208782101001
Page 3 of 51

Sample Received Date
Testing Period

Test Requested

Aug．15， 2019
Aug．15， 2019 to Sep．27， 2019

With reference to RoHS Directive 2011／65／EU withamendment（EU） 2015／863，toconduct verification test forLead $(\mathrm{Pb})$ ，Cadmium $(\mathrm{Cd})$ ，Mercury $(\mathrm{Hg})$ ， Hexavalent Chromium（ $\mathrm{Cr}(\mathrm{VI})$ ），Polybrominated Biphenyls（PBBs）， Polybrominated Diphenyl Ethers（PBDEs）and Phthalates（Dibutyl phthalate（DBP）， Benzylbutyl phthalate（BBP），Di－2－ethylhexyl phthalate（DEHP），Diisobutyl phthalate（DIBP））in the submitted samples．

## Photo（s）of the Product（s）

Final Product


## Verification Report

Report No. A2190208782101001
Page 4 of 51

## Test Method

A.Screening limits for regulated elements according to IEC 62321-3-1:2013(Unit: mg/kg)

| Element | Polymers | Metals | Composite material |
| :---: | :---: | :---: | :---: |
| Pb | $\mathrm{BL} \leqslant(700-3 \sigma)<\mathrm{X}<(1300+3 \sigma)$ <br> $\leqslant \mathrm{OL}$ | $\mathrm{BL} \leqslant(700-3 \sigma)<\mathrm{X}<(1300+3 \sigma)$ <br> $\leqslant \mathrm{OL}$ | $\mathrm{BL} \leqslant(500-3 \sigma)<\mathrm{X}<(1500+3 \sigma)$ <br> $\leqslant \mathrm{OL}$ |
| Cd | $\mathrm{BL} \leqslant(70-3 \sigma)<\mathrm{X}<(130+3 \sigma)$ <br> $\leqslant \mathrm{OL}$ | $\mathrm{BL} \leqslant(70-3 \sigma)<\mathrm{X}<(130+3 \sigma)$ <br> $\leqslant \mathrm{OL}$ | $\mathrm{LOD}<\mathrm{X}<(150+3 \sigma) \leqslant \mathrm{OL}$ |
| Hg | $\mathrm{BL} \leqslant(700-3 \sigma)<\mathrm{X}<(1300+3 \sigma)$ <br> $\leqslant \mathrm{OL}$ | $\mathrm{BL} \leqslant(700-3 \sigma)<\mathrm{X}<(1300+3 \sigma)$ <br> $\leqslant \mathrm{OL}$ | $\mathrm{BL} \leqslant(500-3 \sigma)<\mathrm{X}<(1500+3 \sigma)$ <br> Cr |
| Br | $\mathrm{BL} \leqslant(700-3 \sigma)<\mathrm{X}$ | $\mathrm{BL} \leqslant(700-3 \sigma)<\mathrm{X}$ | $\mathrm{BL} \leqslant(500-3 \sigma)<\mathrm{X}$ |

B. Screening limits for Phthalates

| Test Item(s) | Screening limits(Unit: mg/kg) |
| :---: | :---: |
| Dibutyl phthalate(DBP) | BL $\leqslant 600<\mathrm{X}$ |
| Benzylbutyl phthalate(BBP) | $\mathrm{BL} \leqslant 600<\mathrm{X}$ |
| Di-2-ethylhexyl phthalate(DEHP) | $\mathrm{BL} \leqslant 600<\mathrm{X}$ |
| Diisobutyl phthalate(DIBP) | $\mathrm{BL} \leqslant 600<\mathrm{X}$ |

C.Chemical Test

| Tested Item(s) | Test Method | Measured <br> Equipment(s) | MDL | Limit |
| :---: | :---: | :---: | :---: | :---: |
| Lead (Pb) | IEC 62321-5:2013 | ICP-OES | $10 \mathrm{mg} / \mathrm{kg}$ | $1000 \mathrm{mg} / \mathrm{kg}$ |
|  | Refer to IEC 62321-5:2013 |  | $10 \mathrm{mg} / \mathrm{kg}$ |  |
| Cadmium (Cd) | IEC 62321-5:2013 | ICP-OES | $10 \mathrm{mg} / \mathrm{kg}$ | $100 \mathrm{mg} / \mathrm{kg}$ |
|  | Refer to IEC 62321-5:2013 |  | $10 \mathrm{mg} / \mathrm{kg}$ |  |
| Mercury (Hg) | IEC 62321-4:2013+AMD1:2017 CSV | ICP-OES | $10 \mathrm{mg} / \mathrm{kg}$ | $1000 \mathrm{mg} / \mathrm{kg}$ |
|  | Refer to <br> IEC 62321-4:2013+AMD1:2017 CSV |  | $10 \mathrm{mg} / \mathrm{kg}$ |  |
| Hexavalent Chromium ( $\mathrm{Cr}(\mathrm{VI}$ ) | IEC 62321-7-2:2017 | UV-Vis | $20 \mathrm{mg} / \mathrm{kg}$ | $1000 \mathrm{mg} / \mathrm{kg}$ |
|  | IEC 62321-7-1:2015 |  | $\begin{gathered} 0.10 \mu \mathrm{~g} / \mathrm{cm}^{2} \\ (\mathrm{LOQ}) \end{gathered}$ |  |
| Polybrominated Biphenyls <br> (PBBs) | IEC 62321-6:2015 | GC-MS | $100 \mathrm{mg} / \mathrm{kg}$ | $1000 \mathrm{mg} / \mathrm{kg}$ |
| Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321-6:2015 | GC-MS | $100 \mathrm{mg} / \mathrm{kg}$ | $1000 \mathrm{mg} / \mathrm{kg}$ |
| Phthalates <br> (DBP, BBP, DEHP, DIBP) | IEC 62321-8:2017 | GC-MS | $50 \mathrm{mg} / \mathrm{kg}$ | $\begin{aligned} & 1000 \mathrm{mg} / \mathrm{kg} \\ & \text { for each } \end{aligned}$ |

## Verification Report

Report No. A2190208782101001

## Remark:

- $\quad \mathrm{BL}=$ Under the screening limit
- $\quad \mathrm{OL}=$ Above the screening limit
- $\quad X=$ The range of needing to do further testing
- $3 \sigma=$ The reproducibility of analytical instruments
- N/A= Not applicable
- $\quad$ LOD $=$ Detection limit
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is $0.10 \mu \mathrm{~g} / \mathrm{cm}^{2}$


## Verification Report

Report No. A2190208782101001
Page 6 of 51
Test Result(s)

| Sample No. | Sample Description | Tested Items | XRF <br> Screening <br> Test | Phthalates <br> Screening Test | Chemical <br> Test ( $\mathrm{mg} / \mathrm{kg}$ ) | Conclusion | Sample <br> Received/ <br> Resubmitted <br> Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1 | Grey plastic | Pb | BL | 1 | 1 | PASS | Aug. 15, 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ) | BL | 1 | 1 |  |  |
|  |  | Br(PBBs\&PBDEs) | IN | 1 | N.D. |  |  |
|  |  | DBP | N/A | BL | 1 |  |  |
|  |  | BBP | N/A | BL | 1 |  |  |
|  |  | DEHP | N/A | BL | 1 |  |  |
|  |  | DIBP | N/A | BL | 1 |  |  |
| 1.2 | Grey plastic with black/red printing | Pb | BL | 1 | 1 | PASS | Aug. 15, 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ) | BL | 1 | 1 |  |  |
|  |  | Br(PBBs\&PBDEs) | IN | 1 | N.D. |  |  |
|  |  | DBP | N/A | BL | 1 |  |  |
|  |  | BBP | N/A | BL | 1 |  |  |
|  |  | DEHP | N/A | BL | 1 |  |  |
|  |  | DIBP | N/A | BL | 1 |  |  |
| 1.3 | Colorless <br> transparent plastic | Pb | BL | 1 | 1 | PASS | Aug. 15, 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ) | BL | 1 | 1 |  |  |
|  |  | Br(PBBs\&PBDEs) | BL | 1 | 1 |  |  |
|  |  | DBP | N/A | BL | 1 |  |  |
|  |  | BBP | N/A | BL | 1 |  |  |
|  |  | DEHP | N/A | BL | 1 |  |  |
|  |  | DIBP | N/A | BL | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 7 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ <br> Resubmitted <br> Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.4 | Colorless <br> transparent plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | ／ |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.5 | Dark grey plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | ／ | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | ／ |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.6 | White double sided tape | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.7 | White glue | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | ／ |  |  |
|  |  | $\mathrm{Br}(\mathrm{PBBs} \& \mathrm{PBDEs})$ | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 8 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening <br> Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ <br> Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.8 | Metal with light blue plating | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | IN | 1 | N．D．${ }^{\text { }}$ |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.9 | Metal with light blue plating | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | IN | 1 | N．D．${ }^{\text { }}$ |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.10 | Metal with light blue plating | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | IN | 1 | N．D．${ }^{\text { }}$ |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.11 | Metal with light blue plating | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | IN | 1 | N．D．${ }^{\text {V }}$ |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 9 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ <br> Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.12 | Metal with silvery plating | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.13 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Br}(\mathrm{PBBs} \& \mathrm{PBDEs})$ | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.14 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.15 | Silvery metal | Pb | BL | 1 | 1 | PASS | $\begin{gathered} \text { Aug. 15, } 2019 \\ \text { Sep. } 2,2019 \end{gathered}$ |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | IN | 1 | N．D．${ }^{\text { }}$ |  |  |
|  |  | $\mathrm{Br}(\mathrm{PBBs} \&$ PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 10 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample Received／ Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.16 | Silvery metal | Pb | BL | 1 | 1 | PASS | $\begin{gathered} \text { Aug. } 15,2019 \\ \text { Sep. } 2,2019 \end{gathered}$ |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | IN | 1 | N．D．${ }^{\text { }}$ |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | ／ |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1．17－A | Golden metal | Pb | 1 | 1 | $27327^{* 1}$ | PASS | $\begin{aligned} & \text { Aug. } 15,2019 \\ & \text { Sep. } 18,2019 \end{aligned}$ |
|  |  | Cd | 1 | 1 | 50 |  |  |
|  |  | Hg | 1 | 1 | N．D． |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | 1 | 1 | N．D．${ }^{\text {² }}$ |  |  |
|  |  | Br（PBBs\＆PBDEs） | 1 | 1 | ／ |  |  |
|  |  | DBP | 1 | 1 | 1 |  |  |
|  |  | BBP | 1 | 1 | 1 |  |  |
|  |  | DEHP | 1 | 1 | 1 |  |  |
|  |  | DIBP | 1 | 1 | 1 |  |  |
| 1.18 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.19 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 11 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ <br> Resubmitted <br> Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.20 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.21 | Silvery metal | Pb | BL | 1 | 1 | PASS | $\begin{gathered} \text { Aug. } 15,2019 \\ \text { Sep. } 2,2019 \end{gathered}$ |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | IN | 1 | N．D．${ }^{\text { }}$ |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | ／ |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.22 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | IN | ／ | N．D．${ }^{\text {V }}$ |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | ／ |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.23 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | ／ |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 12 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening <br> Test | Phthalates <br> Screening Test | Chemical <br> Test （ $\mathrm{mg} / \mathrm{kg}$ ） | Conclusion | Sample <br> Received／ Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.24 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.25 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.26 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.27 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 13 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening <br> Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample Received／ Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.28 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | ／ | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.29 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.30 | Metal with silvery plating | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.31 | Silvery contact | Pb | BL | 1 | 1 | PASS | $\begin{aligned} & \text { Aug. } 15,2019 \\ & \text { Sep. } 2,2019 \end{aligned}$ |
|  |  | Cd | OL | 1 | $7643^{\# 3}$ |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | IN | 1 | N．D．${ }^{\text { }}$ |  |  |
|  |  | $\operatorname{Br}$（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 14 of 51

| $\begin{aligned} & \text { Sample } \\ & \text { No. } \end{aligned}$ | Sample Description | Tested Items | XRF Screening Test | Phthalates Screening Test | Chemical Test （ $\mathrm{mg} / \mathrm{kg}$ ） | Conclusion | Sample <br> Received／ <br> Resubmitted <br> Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.32 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.33 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.34 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | $\operatorname{Br}$（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.35 | Red steel tapes | Pb | BL | 1 | 1 | PASS | $\text { Aug. 15, } 2019$ |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 15 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ <br> Resubmitted Date ${ }^{\text {d }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.36 | Black plastic | Pb | BL | 1 | ／ | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.37 | Black plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | IN | 1 | N．D． |  |  |
|  |  | DBP | N／A | BL | ／ |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.38 | Black plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | ／ |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | IN | ／ | N．D． |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.39 | Light yellow plastic | Pb | BL | ／ | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 16 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.40 | Light brown plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.41 | Light yellow plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.42 | Light yellow plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Br}(\mathrm{PBBs} \&$ PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.43 | Light yellow plastic | Pb | BL | ／ | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | ／ |  |  |
|  |  | $\operatorname{Br}(\mathrm{PBBs} \& \mathrm{PBDEs})$ | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 17 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF Screening Test | Phthalates Screening Test | Chemical <br> Test <br> （mg／kg） | Conclusion | Sample <br> Received／ <br> Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.44 | Light yellow plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.45 | White plastic | Pb | BL | ／ | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | ／ | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.46 | White plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | ／ |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.47 | Brown rubber | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | $\operatorname{Br}$（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 18 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.48 | Brown rubber | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.49 | Brown plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.50 | Green ink | Pb | BL | ／ | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.51 | Black plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | ／ |  |  |
|  |  | Br（PBBs\＆PBDEs） | IN | 1 | N．D． |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 19 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample Received／ Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.52 | White plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | ／ |  |  |
|  |  | Br（PBBs\＆PBDEs） | IN | 1 | N．D． |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | ／ |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.53 | Light <br> brown plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | ／ |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | ／ |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.54 | Silvery metal | Pb | BL | ／ | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | ／ | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | ／ |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.55 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |

华测检测
CENTRE TESTING INIERNAIIONAI

## Verification Report

Report No．A2190208782101001
Page 20 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ <br> Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.56 | Golden metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | ／ |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.57 | Blue plastic wire jacket | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.58 | Green plastic wire jacket | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Br}(\mathrm{PBBs} \&$ PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | IN | N．D． |  |  |
|  |  | BBP | N／A | IN | N．D． |  |  |
|  |  | DEHP | N／A | IN | N．D． |  |  |
|  |  | DIBP | N／A | IN | N．D． |  |  |
| 1.59 | Cupreous metal wire | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | $\operatorname{Br}$（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |

华测㮛测

## Verification Report

Report No．A2190208782101001
Page 21 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.60 | Body with multicolor ink | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.61 | Silvery metal pin | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.62 | Silvery <br> soldering tin | Pb | IN | 1 | 184 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| $1.63-\mathrm{A}$ | Black plastic wire jacket | Pb | 1 | 1 | N．D． | PASS | Aug．15， 2019 <br> Sep．2， 2019 <br> Sep．18， 2019 |
|  |  | Cd | 1 | 1 | N．D． |  |  |
|  |  | Hg | 1 | 1 | N．D． |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | 1 | 1 | N．D． |  |  |
|  |  | Br （PBBs\＆PBDEs） | 1 | 1 | N．D． |  |  |
|  |  | DBP | 1 | 1 | N．D． |  |  |
|  |  | BBP | 1 | 1 | N．D． |  |  |
|  |  | DEHP | 1 | 1 | N．D． |  |  |
|  |  | DIBP | 1 | 1 | N．D． |  |  |

## Verification Report

Report No．A2190208782101001
Page 22 of 51

| Sample No． | Sample Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.64 | Silvery metal wire | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.65 | Cupreous <br> lacquered wire | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | $\operatorname{Br}($ PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| $1.66-\mathrm{A}$ | Blue adhesive tape | Pb | 1 | 1 | N．D． | PASS | Aug．15， 2019 <br> Sep．2， 2019 <br> Sep．18， 2019 |
|  |  | Cd | 1 | 1 | N．D． |  |  |
|  |  | Hg | 1 | 1 | N．D． |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | 1 | 1 | N．D． |  |  |
|  |  | $\operatorname{Br}(\mathrm{PBBs} \&$ PBDEs） | 1 | 1 | N．D． |  |  |
|  |  | DBP | 1 | 1 | N．D． |  |  |
|  |  | BBP | 1 | 1 | N．D． |  |  |
|  |  | DEHP | 1 | 1 | N．D． |  |  |
|  |  | DIBP | 1 | 1 | N．D． |  |  |
| 1.67 | Black plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | $\operatorname{Br}(\mathrm{PBBs} \& P B D E s)$ | IN | 1 | N．D． |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 23 of 51

| Sample No． | Sample Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ <br> Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.68 | Black plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | IN | 1 | N．D． |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.69 | White foam | Pb | BL | 1 | 1 | PASS | $\begin{gathered} \text { Aug. 15, } 2019 \\ \text { Sep. 2, } 2019 \end{gathered}$ |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | IN | N．D． |  |  |
|  |  | BBP | N／A | IN | N．D． |  |  |
|  |  | DEHP | N／A | IN | N．D． |  |  |
|  |  | DIBP | N／A | IN | N．D． |  |  |
| 1.70 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.71 | White plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 24 of 51

| Sample No． | Sample <br> Description | Tested Items | XRF Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample Received／ Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.72 | White plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.73 | Blue plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.74 | White plastic | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.75 | Cupreous <br> lacquered wire | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | ／ |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | $\operatorname{Br}$（PBBs\＆PBDEs） | BL | 1 | 1 |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 25 of 51

| Sample <br> No． | Sample <br> Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ <br> Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.76 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.77 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.78 | Silvery metal | Pb | BL | 1 | 1 | PASS | $\begin{gathered} \text { Aug. } 15,2019 \\ \text { Sep. } 2,2019 \end{gathered}$ |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | ／ |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | IN | 1 | N．D．${ }^{\text { }}$ |  |  |
|  |  | $\mathrm{Br}(\mathrm{PBBs} \&$ PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | ， |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.79 | Cupreous metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | $\operatorname{Br}(\mathrm{PBBs} \& \mathrm{PBDEs})$ | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 26 of 51

| Sample <br> No． | Sample <br> Description | Tested Items | XRF <br> Screening Test | Phthalates <br> Screening Test | Chemical <br> Test （mg／kg） | Conclusion | Sample <br> Received／ <br> Resubmitted Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.80 | Golden metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br（PBBs\＆PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.81 | Silvery metal | Pb | BL | 1 | 1 | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Br}(\mathrm{PBBs} \&$ PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |
| 1.82 | Black body | Pb | OL | 1 | $19638^{\# 2}$ | PASS | Aug．15， 2019 |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
|  |  | Br （PBBs\＆PBDEs） | IN | 1 | N．D． |  |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |
| 1.83 | Silvery metal pin | Pb | BL | 1 | 1 | PASS | $\begin{gathered} \text { Aug. 15, } 2019 \\ \text { Sep. } 2,2019 \end{gathered}$ |
|  |  | Cd | BL | 1 | 1 |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | IN | 1 | N．D．${ }^{\text { }}$ |  |  |
|  |  | $\mathrm{Br}(\mathrm{PBBs} \&$ PBDEs） | N／A | 1 | 1 |  |  |
|  |  | DBP | N／A | 1 | 1 |  |  |
|  |  | BBP | N／A | 1 | 1 |  |  |
|  |  | DEHP | N／A | 1 | 1 |  |  |
|  |  | DIBP | N／A | 1 | 1 |  |  |

## Verification Report

Report No．A2190208782101001
Page 27 of 51

| Sample <br> No． | Sample Description | Tested Items | XRF <br> Screening Test | Phthalates Screening Test | $\begin{gathered} \text { Chemical } \\ \text { Test } \\ (\mathrm{mg} / \mathrm{kg}) \end{gathered}$ | Conclusion | Sample <br> Received／ <br> Resubmitted <br> Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1．84－A | Silvery soldering tin | Pb | 1 | 1 | 29 | PASS | Aug．15， 2019 <br> Sep．18， 2019 |
|  |  | Cd | 1 | 1 | N．D． |  |  |
|  |  | Hg | 1 | 1 | N．D． |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | 1 | 1 | N．D．${ }^{\text {² }}$ |  |  |
|  |  | Br（PBBs\＆PBDEs） | 1 | 1 | 1 |  |  |
|  |  | DBP | 1 | 1 | ／ |  |  |
|  |  | BBP | 1 | 1 | 1 |  |  |
|  |  | DEHP | 1 | 1 | 1 |  |  |
|  |  | DIBP | 1 | 1 | 1 |  |  |
|  |  | Pb | BL | 1 | 1 |  | Aug．15， 2019 |
|  |  | Cd | BL | 1 | ， |  |  |
|  |  | Hg | BL | 1 | 1 |  |  |
|  |  | $\mathrm{Cr}(\mathrm{Cr}(\mathrm{VI})$ ） | BL | 1 | 1 |  |  |
| 1.85 | PCB | Br（PBBs\＆PBDEs） | IN | 1 | N．D． | PASS |  |
|  |  | DBP | N／A | BL | 1 |  |  |
|  |  | BBP | N／A | BL | 1 |  |  |
|  |  | DEHP | N／A | BL | 1 |  |  |
|  |  | DIBP | N／A | BL | 1 |  |  |

## Verification Report

Report No．A2190208782101001

## Remark：

－N．D．$=$ Not Detected $(<\mathrm{MDL}$ or LOQ $)$
－MDL＝Method Detection Limit
－ $\mathrm{mg} / \mathrm{kg}=\mathrm{ppm}=$ parts per million
－$\quad 1000 \mathrm{mg} / \mathrm{kg}=0.1 \%$
－$\quad 1=$ Not tested
－$\quad \mathrm{IN}=$ Uncertain，Further chemical test
－N／A＝Not applicable
－$\quad \mathrm{BL}=$ Under the screening limit
－$\quad \mathrm{OL}=$ Further chemical test will be conducted while the result is above the screening limit．
－$\quad$ The sample is negativefor $\mathrm{Cr}(\mathrm{VI})$－The $\mathrm{Cr}(\mathrm{VI})$ concentration is below $0.10 \mu \mathrm{~g} / \mathrm{cm}^{2}$ ．
The coating is considered a non－ $\mathrm{Cr}(\mathrm{VI})$ based coating．
－When conducting the test for PBBs\＆PBDEs，XRF was introduced to screen Br Exclusively；When conducting the test for Hexavalent Chromium，XRF was introduced to screen Chromium exclusively．
－The sample with A in＇Sample No．＇is the improved one instead of the original submitted sample．
－\＃1 According to the client＇s statement，the material of the sample（s）fall into exemption items 6（c）according to EU Directive 2011／65／EU：Copper alloy containing up to $4 \%$ lead by weight．
－$\quad{ }^{\# 2}$ According to the client＇s statement，the material of the sample（s）fall into exemption items 7（c）－I according to EU Directive 2011／65／EU：Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors，e．g．piezoelectronic devices，or in a glass or ceramic matrix compound．
${ }^{\# 3}$ According to the client＇s statement，the material of the sample（s）fall into exemption items 8（b）according to EU Directive 2011／65／EU：Cadmium and its compounds in electrical contacts．
－According to the client＇s statement，the sample material reference information see table：

| Sample No． | Sample No．in this Report |
| :---: | :---: |
| 1.9 | 1.8 |
| 1.10 | 1.8 |
| 1.11 | 1.8 |
| 1.20 | 1.19 |
| 1.22 | 1.21 |
| 1.23 | 1.19 |
| 1.25 | 1.19 |
| 1.26 | 1.19 |
| 1.27 | 1.19 |
| 1.28 | 1.19 |
| 1.29 | 1.19 |
| 1.30 | 1.12 |
| 1.33 | 1.19 |
| 1.34 | 1.19 |
| 1.41 | 1.39 |

## Verification Report

Report No．A2190208782101001
Page 29 of 51

| Sample No． | Sample No．in this Report |
| :---: | :---: |
| 1.42 | 1.39 |
| 1.43 | 1.39 |
| 1.44 | 1.39 |
| 1.48 | 1.47 |
| 1.68 | 1.67 |
| 1.77 | 1.76 |

## Verification Report

Report No．A2190208782101001

## Test Process

1．Lead（Pb），Cadmium（Cd）
1）IEC 62321－5：2013


2）Refer to IEC 62321－5：2013


2．Mercury（Hg）
1）IEC 62321－4：2013＋AMD1：2017 CSV


## Verification Report

Report No．A2190208782101001
2）Refer toIEC 62321－4：2013＋AMD1：2017 CSV


3．Hexavalent Chromium（ $\mathrm{Cr}(\mathrm{VI})$ ）
1）IEC62321－7－2：2017


2）IEC 62321－7－1：2015


4．Polybrominated Biphenyls（PBBs），Polybrominated Diphenyl Ethers（PBDEs）


## Verification Report

Report No．A2190208782101001
5．Phthalates（DBP，BBP，DEHP，DIBP）


## Verification Report

## Photo（s）of the tested component（s）



## Verification Report

Report No．A2190208782101001
Page 34 of 51


## Verification Report

Report No．A2190208782101001
Page 35 of 51


## Verification Report

Report No．A2190208782101001
Page 36 of 51


## Verification Report



## Verification Report



## Verification Report

Report No．A2190208782101001
Page 39 of 51

## Exempted Items of RoHS Directive

In accordance with Directive 2011／65／EU as amended，there are 42 exemption items in Annex III of 2011／65／EU altogether．

|  | Exemption | Scope and dates of applicability |
| :---: | :---: | :---: |
| 1 | Mercury in single capped（compact）fluorescent lamps not exceeding（per burner）： |  |
| 1（a） | For general lighting purposes $<30 \mathrm{~W}: 5 \mathrm{mg}$ | Expires on 31 December 2011；3，5 mg may be used per burner after 31 December 2011 until31 December 2012；2，5 mg shall be used per burner after 31 December 2012 |
| 1（b） | For general lighting purposes $\geq 30 \mathrm{~W}$ and $<$ $50 \mathrm{~W}: 5 \mathrm{mg}$ | Expires on 31 December 2011；3，5 mg may be used per burner after 31 December 2011 |
| 1（c） | For general lighting purposes $\geq 50 \mathrm{~W}$ and $<$ $150 \mathrm{~W}: 5 \mathrm{mg}$ |  |
| 1（d） | For general lighting purposes $\geq 150 \mathrm{~W}: 15 \mathrm{mg}$ |  |
| 1（e） | For general lighting purposes with circular or square structural shape and tube diameter $\leq$ 17 mm | No limitation of use until 31 December 2011； 7 mg may be used per burner after 31 December 2011 |
| 1（f） | For special purposes： 5 mg |  |
| 1（g） | For general lighting purposes $<30 \mathrm{~W}$ with a lifetime equal or above $20000 \mathrm{~h}: 3,5 \mathrm{mg}$ | Expires on 31 December 2017 |
| 2（a） | Mercury in double－capped linear fluorescent lamps for general lighting purposes not exceeding（per lamp）： |  |
| 2（a）（1） | Tri－band phosphor with normal lifetime and a tube diameter $<9 \mathrm{~mm}$（e．g．T2）： 5 mg | Expires on 31 December 2011； 4 mg may be used per lamp after 31 December 2011 |
| 2（a）（2） | Tri－band phosphor with normal lifetime and a tube diameter $\geq 9 \mathrm{~mm}$ and $\leq 17 \mathrm{~mm}$（e．g．T5）： 5 mg | Expires on 31 December 2011； 3 mg may be used per lamp after 31 December 2011 |
| 2（a）（3） | Tri－band phosphor with normal lifetime and a tube diameter $>17 \mathrm{~mm}$ and $\leq 28 \mathrm{~mm}$（e．g．T8）： 5 mg | Expires on 31 December 2011；3，5 mg may be used per lamp after 31 December 2011 |
| 2（a）（4） | Tri－band phosphor with normal lifetime and a tube diameter＞ 28 mm （e．g．T12）： 5 mg | Expires on 31 December 2012；3，5 mg may be used per lamp after 31 December 2012 |
| 2（a）（5） | Tri－band phosphor with long lifetime（ $\geq$ 25000 h ）： 8 mg | Expires on 31 December 2011； 5 mg may be used per lamp after 31 December 2011 |
| 2（b） | Mercury in other fluorescent lamps not exceeding（per lamp）： |  |

## Verification Report

Report No. A2190208782101001
Page 40 of 51

|  | Exemption | Scope and dates of applicability |
| :---: | :---: | :---: |
| 2(b)(1) | Linear halophosphate lamps with tube $>28 \mathrm{~mm}$ (e.g. T10 and T12): 10 mg | Expires on 13 April 2012 |
| 2(b)(2) | Non-linear halophosphate lamps (all diameters): 15 mg | Expires on 13 April 2016 |
| 2(b)(3) | Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9) | No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011 |
| 2(b)(4) | Lamps for other general lighting and special purposes (e.g. induction lamps) | No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011 |
| 3 | Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp): |  |
| 3(a) | Short length ( $\leq 500 \mathrm{~mm}$ ) | No limitation of use until 31 December 2011; $3,5 \mathrm{mg}$ may be used per lamp after 31 December 2011 |
| 3(b) | Medium length ( $>500 \mathrm{~mm}$ and $\leq 1500 \mathrm{~mm}$ ) | No limitation of use until 31 December 2011; 5 mg may be used per lamp after 31 December 2011 |
| 3(c) | Long length (> 1500 mm ) | No limitation of use until 31 December 2011; 13 mg may be used per lamp after 31 December 2011 |
| 4(a) | Mercury in other low pressure discharge lamps (per lamp) | No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011 |
| 4(b) | Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index $\mathrm{Ra}>60$ : |  |
| 4(b)-I | $\mathrm{P} \leq 155 \mathrm{~W}$ | No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 <br> December 2011 |
| 4(b)-II | $155 \mathrm{~W}<\mathrm{P} \leq 405 \mathrm{~W}$ | No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011 |
| 4(b)-III | $\mathrm{P}>405 \mathrm{~W}$ | No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011 |

## Verification Report

Report No．A2190208782101001
Page 41 of 51

|  | Exemption | Scope and dates of applicability |
| :---: | :---: | :---: |
| 4（c） | Mercury in other High Pressure Sodium（vapour） lamps for general lighting purposes not exceeding（per burner）： |  |
| 4（c）－I | P $\leq 155 \mathrm{~W}$ | No limitation of use until 31 December 2011； 25 mg may be used per burner after 31 December 2011 |
| 4（c）－II | $155 \mathrm{~W}<\mathrm{P} \leq 405 \mathrm{~W}$ | No limitation of use until 31 December 2011； 30 mg may be used per burner after 31 December 2011 |
| 4（c）－III | $\mathrm{P}>405 \mathrm{~W}$ | No limitation of use until 31 December 2011； 40 mg may be used per burner after 31 December 2011 |
| 4（d） | Mercury in High Pressure Mercury（vapour） lamps（HPMV） | Expires on 13 April 2015 |
| 4（e） | Mercury in metal halide lamps（MH） |  |
| 4（f） | Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex |  |
| 4（g） | Mercury in hand crafted luminous discharge tubes used for signs，decorative or architectural and specialist lighting and light－artwork，where the mercury content shall be limited as follows： <br> （a） 20 mg per electrode pair $+0,3 \mathrm{mg}$ per tube length in cm ，but notmore than 80 mg ，for outdoor applications and indoor applications exposed to temperatures below $20^{\circ} \mathrm{C}$ ； <br> （b） 15 mg perelectrode pair $+0,24 \mathrm{mg}$ per tube length in cm ，but not more than 80 mg ，for all other indoor applications． | Expires on 31 December 2018 |
| 5（a） | Lead in glass of cathode ray tubes |  |
| 5（b） | Lead in glass of fluorescent tubes not exceeding $0,2 \%$ by weight |  |

## Verification Report

Report No
A2 190208782101001
Page 42 of 51

|  | Exemption | Scope and dates of applicability |
| :---: | :---: | :---: |
| 6（a） | Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to $0,35 \%$ lead by weight | Expires on： <br> －21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments； －21 July 2023 for category 8 in vitro diagnostic medical devices； <br> －21 July 2024 for category 9 industrial monitoring and control instruments，and for category 11. |
| 6（a）－I | Lead as an alloying element in steel for machining purposes containing up to $0,35 \%$ lead by weight and in batch hot dip galvanised steel components containing up to $0,2 \%$ lead by weight | Expires on 21 July 2021 for categories 1－7 and 10 ． |
| 6（b） | Lead as an alloying element in aluminium containing up to $0,4 \%$ lead by weight | Expires on： <br> －21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments， －21 July 2023 for category 8 in vitro diagnostic medical devices， －21 July 2024 for category 9 industrial monitoring and control instruments，and for category 11. |
| 6（b）－I | Lead as an alloying element in aluminium containing up to $0,4 \%$ lead by weight，provided it stems from lead－bearing aluminium scrap recycling | Expires on 21 July 2021 for categories 1－7 and 10 ． |
| 6（b）－II | Lead as an alloying element in aluminium for machining purposes with a lead content up to $0,4 \%$ by weight | Expires on 18 May 2021 for categories 1－7 and 10 ． |

## Verification Report

Report No. A2190208782101001
Page 43 of 51

|  | Exemption | Scope and dates of applicability |
| :---: | :---: | :---: |
| 6(c) | Copper alloy containing up to $4 \%$ lead by weight | Expires on: <br> -21 July 2021 for categories 1-7 and 10, -21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, -21 July 2023 for category 8 in vitro diagnostic medical devices, -21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11. |
| 7(a) | Lead in high melting temperature type solders (i.e. lead-based alloys containing $85 \%$ by weight or more lead) | Applies to categories 1-7 and 10 (except applications covered by point 24 of this Annex) and expires on 21 July 2021. <br> For categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021. <br> For category 8 in vitro diagnostic medical devices expires on 21 July 2023. <br> For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024. |
| 7(b) | Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications |  |
| 7(c)-I | Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound | Applies to categories 1-7 and 10 (except applications covered under point 34) and expires on 21 July 2021. <br> For categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021. <br> For category 8 in vitro diagnostic medical devices expires on 21 July 2023. <br> For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024. |

## Verification Report

Report No．A2190208782101001
Page 44 of 51

|  | Exemption | Scope and dates of applicability |
| :---: | :---: | :---: |
| 7（c）－II | Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher | Does not apply to applications covered by point 7（c）－I and 7（c）－IV of this Annex． <br> Expires on： <br> －21 July 2021 for categories 1－7 and 10； <br> －21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments； <br> －21 July 2023 for category 8 in vitro diagnostic medical devices； <br> －21 July 2024 for category 9 industrial monitoring and control instruments，and for category 11 |
| 7（c）－III | Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC | Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013 |
| 7（c）－IV | Lead in PZT based dielectric ceramic materials for capacitors which are part of integrated circuits or discrete semiconductors | -21 July 2021 for categories 1－7 and 10； －21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments； -21 July 2023 for category 8 in vitro diagnostic medical devices； <br> －21 July 2024 for category 9 industrial monitoring and control instruments，and for category 11 |
| 8（a） | Cadmium and its compounds in one shot pellet type thermal cut－offs | Expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012 |
| 8（b） | Cadmium and its compounds in electrical contacts | Applies to categories 8， 9 and 11 and expires on： <br> -21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments； -21 July 2023 for category 8 in vitro diagnostic medical devices； <br> －21 July 2024 for category 9 industrial monitoring and control instruments，and for category 11 |

## Verification Report

Report No．A2190208782101001
Page 45 of 51

|  | Exemption | Scope and dates of applicability |
| :---: | :---: | :---: |
| 8（b）－I | Cadmium and its compounds in electrical contacts used in： <br> －circuit breakers， <br> －thermal sensing controls， <br> －thermal motor protectors（excluding hermetic thermal motor protectors）， <br> －AC switches rated at： <br> -6 A and more at 250 V AC and more，or <br> -12 A and more at 125 V AC and more， <br> －DC switches rated at 20 A and more at 18 V DC and more，and －switches for use at voltage supply frequency $\geq$ 200 Hz | Applies to categories 1 to 7 and 10 and expires on 21 July 2021 |
| 9 | Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to $0,75 \%$ by weight in the cooling solution |  |
| 9（b） | Lead in bearing shells and bushes for refrigerant－containing compressors for heating， ventilation，air conditioning and refrigeration （HVACR）applications | Applies to categories 8， 9 and 11；expires on： －21 July 2023 for category 8 in vitro diagnostic medical devices， －21 July 2024 for category 9 industrial monitoring and control instruments and for category 11， －21 July 2021 for other subcategories of categories 8 and 9 ． |
| 9（b）－（I） | Lead in bearing shells and bushes for refrigerant－ containing hermetic scroll compressors with a stated electrical power input equal or below 9 kW for heating，ventilation，air conditioning and refrigeration（HVACR）applications | Applies to category 1；expires on 21 July 2019. |
| 11（a） | Lead used in C－press compliant pin connector systems C－press | May be used in spare parts for EEE placed on the market before 24 September 2010 |
| 11（b） | Lead used in other than C－press compliant pin connector systems | Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013 |
| 12 | Lead as a coating material for the thermal conduction module C－ring | May be used in spare parts for EEE placed on the market before 24 September 2010 |

## Verification Report

Report No. A2190208782101001
Page 46 of 51

|  | Exemption | Scope and dates of applicability |
| :---: | :---: | :---: |
| 13(a) | Lead in white glasses used for optical applications | Applies to all categories; expires on: -21 July 2023 for category 8 in vitro diagnostic medical devices; <br> -21 July 2024 for category 9 industrial monitoring and control instruments and for category 11; <br> -21 July 2021 for all other categories and subcategories |
| 13(b) | Cadmium and lead in filter glasses and glasses used for reflectance standards | Applies to categories 8, 9 and 11; expires on: -21 July 2023 for category 8 in vitro diagnostic medical devices; <br> -21 July 2024 for category 9 industrial monitoring and control instruments and for category 11; <br> -21 July 2021 for other subcategories of categories 8 and 9 |
| 13(b)-I | Lead in ion coloured optical filter glass types | Applies to categories 1 to 7 and 10 ; expires on 21 July 2021 for categories 1 to 7 and 10 |
| 13(b)-II | Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex |  |
| 13(b)-III | Cadmium and lead in glazes used for reflectance standards |  |
| 14 | Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than $80 \%$ and less than $85 \%$ by weight | Expired on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011 |
| 15 | Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages | Applies to categories 8, 9 and 11 and expires on: <br> -21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; -21 July 2023 for category 8 in vitro diagnostic medical devices; -21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11 |

## Verification Report

Report No．A2190208782101001
Page 47 of 51

|  | Exemption | Scope and dates of applicability |
| :--- | :--- | :--- |
| 15（a） | Lead in solders to complete a viable electrical <br> connection between the semiconductor die and <br> carrier within integrated circuit flip chip <br> packages where at least one of the following <br> criteria applies： <br> －a semiconductor technology node of 90 nm or <br> larger； <br> －a single die of 300 mm² or larger in any <br> semiconductor technology node； | Applies to categories 1 to 7 and 10 and <br> expires on 21 July 2021 |
| －stacked die packages with die of 300 $\mathrm{mm}^{2}$ or <br> larger，or silicon interposers of 300 mm |  |  |
| 16 | Lead in lingear incandescent lamps with silicate <br> coated tubes | Expires on 1 September 2013 |
| 17 | Lead halide as radiant agent in high intensity <br> discharge（HID）lamps used for professional <br> reprography applications | Lead as activator in the fluorescent powder（1 \％ <br> lead by weight or less）of discharge lamps when <br> used as speciality lamps for diazoprinting <br> reprography，lithography，insect traps， <br> photochemical and curing processes containing <br> phosphors such as SMS（（Sr，Ba）2MgSi2O7：Pb） |

## Verification Report

Report No．A2190208782101001
Page 48 of 51

|  | Exemption | Scope and dates of applicability |
| :---: | :---: | :---: |
| 20 | Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays（LCDs） | Expires on 1 June 2011 |
| 21 | Lead and cadmium in printing inks for the application of enamels on glasses，such as borosilicate and soda lime glasses | Applies to categories 8， 9 and 11 and expires on： <br> －21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments； －21 July 2023 for category 8 in vitro diagnostic medical devices； －21 July 2024 for category 9 industrial monitoring and control instruments，and for category 11 |
| 21（a） | Cadmium when used in colour printed glass to provide filtering functions，used as a component in lighting applications installed in displays and control panels of EEE | Applies to categories 1 to 7 and 10 except applications covered by entry 21（b）or entry 39 and expires on 21 July 2021 |
| 21（b） | Cadmium in printing inks for the application of enamels on glasses，such as borosilicate and soda lime glasses | Applies to categories 1 to 7 and 10 except applications covered by entry 21（a）or 39 and expires on 21 July 2021 |
| 21（c） | Lead in printing inks for the application of enamels on other than borosilicate glasses | Applies to categories 1 to 7 and 10 and expires on 21 July 2021 |
| 23 | Lead in finishes of fine pitch components other than connectors with a pitch of $0,65 \mathrm{~mm}$ and less | May be used in spare parts for EEE placed on the market before 24 September 2010 |
| 24 | Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors | Expires on： <br> －21 July 2021 for categories 1－7 and 10， －21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments， －21 July 2023 for category 8 in vitro diagnostic medical devices， －21 July 2024 for category 9 industrial monitoring and control instruments，and for category 11 |
| 25 | Lead oxide in surface conduction electron emitter displays（SED）used in structural elements， notably in the seal frit and frit ring |  |
| 26 | Lead oxide in the glass envelope of black light blue lamps | Expires on 1 June 2011 |

## Verification Report

Report No．A2 190208782101001
Page 49 of 51

|  | Exemption | Scope and dates of applicability |
| :---: | :---: | :---: |
| 27 | Lead alloys as solder for transducers used in high－powered（designated to operate for several hours at acoustic power levels of 125 dB SPL and above）loudspeakers | Expired on 24 September 2010 |
| 29 | Lead bound in crystal glass as defined in Annex I （Categories 1，2， 3 and 4）of Council Directive 69／493／EEC | －21 July 2021 for categories 1－7 and 10； －21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments； －21 July 2023 for category 8 in vitro diagnostic medical devices； －21 July 2024 for category 9 industrial monitoring and control instruments，and for category 11 |
| 30 | Cadmium alloys as electrical／mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high－powered loudspeakers with sound pressure levels of $100 \mathrm{~dB}(\mathrm{~A})$ and more |  |
| 31 | Lead in soldering materials in mercury free flat fluorescent lamps（which，e．g．are used for liquid crystal displays，design or industrial lighting） |  |
| 32 | Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes | －21 July 2021 for categories 1－7 and 10， <br> －21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments， －21 July 2023 for category 8 in vitro diagnostic medical devices， －21 July 2024 for category 9 industrial monitoring and control instruments，and for category 11 |
| 33 | Lead in solders for the soldering of thin copper wires of $100 \mu \mathrm{~m}$ diameter and less in power trans formers |  |

## Verification Report

Report No．A2190208782101001
Page 50 of 51

|  | Exemption | Scope and dates of applicability |
| :---: | :---: | :---: |
| 34 | Lead in cermet－based trimmer potentiometer elements | Applies to all categories；expires on： <br> －21 July 2021 for categories 1－7 and 10， <br> －21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments， －21 July 2023 for category 8 in vitro diagnostic medical devices， －21 July 2024 for category 9 industrial monitoring and control instruments，and for category 11. |
| 36 | Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display | Expired on 1 July 2010 |
| 37 | Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body | －21 July 2021 for categories 1－7 and 10； <br> －21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments； －21 July 2023 for category 8 in vitro diagnostic medical devices； －21 July 2024 for category 9 industrial monitoring and control instruments，and for category 11 |
| 38 | Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide |  |
| 39（a） | Cadmium selenide in downshifting cadmium－based semiconductor nanocrystal quantum dots for use in display lighting applications（ $<0,2 \mu \mathrm{~g} \mathrm{Cd}$ per $\mathrm{mm}^{2}$ of display screen area） | －Expires for all categories on 31 October 2019 |
| 40 | Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment | Expires on 31 December 2013 |

## Verification Report

Report No．A2190208782101001
Page 51 of 51

|  | Exemption | Scope and dates of applicability |
| :--- | :--- | :--- |
| 41 | Lead in solders and termination finishes of <br> electrical and electronic components and finishes <br> of printed circuit boards used in ignition modules <br> and other electrical and electronic engine control <br> systems，which for technical reasons must be <br> mounted directly on or in the crankcase or <br> cylinder of hand－held combustion engines <br> （classes SH：1，SH：2，SH：3 of Directive 97／68／EC <br> of the European Parliament and of the Council <br> $(2))$ | Expires on 31 December 2018 |
| 42 | Lead in bearings and bushes of diesel or gaseous <br> fuel powered internal combustion engines <br> applied in non－road professional use equipment： <br> －with engine total displacement $\geq 15$ litres；or <br> －with engine total displacement＜15 litres and <br> the engine is designed to operate in applications <br> where the time between signal to start and full <br> load is required to be less than 10 seconds；or <br> regular maintenance is typically performed in a <br> harsh and dirty outdoor environment，such as <br> mining，construction，and agriculture applications | Applies to category 11，excluding <br> applications covered by entry 6（c）of this <br> Annex． |

> *** End of Report ***

## Statement：

1．This report is considered invalid without approved signature，special seal and the seal on the perforation；
2．The sample（s）and sample information was／were provided by the client who should be responsible for the authenticity which CTI hasn＇t verified；
3．The result（s）shown in this report refer（s）only to the sample（s）tested；
4．Without written approval of CTI，this report can＇t be reproduced except in full；
5．In case of any discrepancy between the English version and Chinese version of the testing reports（if generated），the Chinese version shall prevail．

