



TEST REPORT

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Test Report No. : 6127603.50QS
Project no. : 6127603

Contact
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Report Issue Date: 2022.03.31
Page 1 of 11

Client : Cixi Baofanly Electrical Co.,Ltd
Yirang Road,Zhouxiang town,Cixi,Zhejiang province,China

Date sample received : 2022.03.09

Product : Rechargeable hair straightener brush;rechargeable hair straightener;rechargeable hair curler

Product description : Please refer to next page(s).

Model : THW-RHS06;THW-RHS06A;THW-RHS01;THW-RHS02;THW-RHS03;
THW-RHS08;THW-RHS05;THW-RHS05A;THW-RHS05B;THW-RHS05C

Manufacturer : Cixi Baofanly Electrical Co.,Ltd
Yirang Road,Zhouxiang town,Cixi,Zhejiang province,China

Factory : Cixi Baofanly Electrical Co.,Ltd
Yirang Road,Zhouxiang town,Cixi,Zhejiang province,China

Test Requested : Test of RoHS conformity (2011/65/EU) and its subsequent amendments directive (EU) 2015/863

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

Result : Please refer to next page(s).

Conclusion : Requirement passed

Testing Period : 2022.03.09—2022.03.22

Signed for and on behalf of

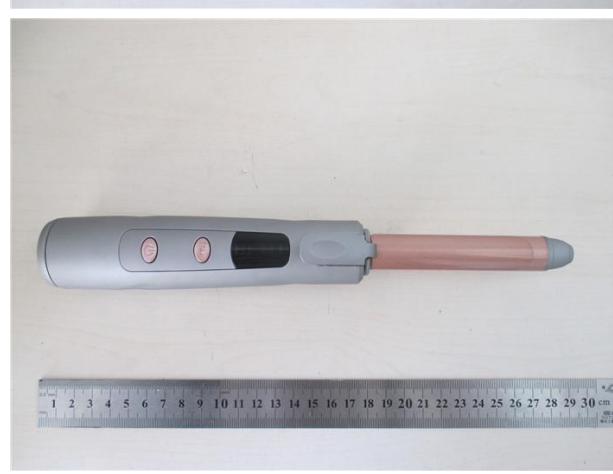
DEKRA Testing and Certification (Shanghai) Ltd



Liu YuPing (刘宇平)
Project Manager

Wang Yueqing (王悦青)
Test Engineer

Picture of the product





TEST RESULTS

| sample-no. | sample designation | Pb (%) | Cd (%) | Hg (%) | Cr VI (%) | PBB (%) | PBDE (%) | DEHP* (%) | BBP* (%) | DBP* (%) | DIBP* (%) |
|------------|-----------------------|---------------------|--------|---------------------------|-----------|---------------------------|---------------------|-----------|----------|----------|-----------|
| 001 | pink plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 002 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 003 | copper-colored metal | < 0.1 | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A | N/A |
| 004 | silvery solder | < 0.1 | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A | N/A |
| 005 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 006 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 007 | beige plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 008 | silvery metal | < 0.1 | < 0.01 | < 0.1 < 0.1 ¹⁾ | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 009 | black metal | < 0.1 | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A | N/A |
| 010 | silvery metal | < 0.1 | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A | N/A |
| 011 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 012 | black rubber | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 013 | pink plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 014 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 015 | yellow plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 016 | silvery metal | < 0.1 | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A | N/A |
| 017 | red plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 018 | blue plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 019 | silvery metal | < 0.1 | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A | N/A |
| 020 | yellow FPC | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A |
| 021 | silvery solder | < 0.1 | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A | N/A |
| 022 | silvery metal | < 0.1 | < 0.01 | < 0.1 < 0.1 ¹⁾ | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 023 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 024 | silvery mica | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A |
| 025 | green PCB | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A |
| 026 | silvery solder | < 0.1 | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A | N/A |
| 027 | white switch | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A |
| 028 | black IC | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A |
| 029 | gray ferrite inductor | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A |
| 030 | black IC | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A |
| 031 | black IC | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A |
| 032 | black resistor | < 0.1 ³⁾ | < 0.01 | < 0.1 | < 0.1 | < 0.1 < 0.1 ²⁾ | < 0.1 ²⁾ | N/A | N/A | N/A | N/A |
| 033 | brown capacitor | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 < 0.1 ²⁾ | < 0.1 ²⁾ | N/A | N/A | N/A | N/A |
| 034 | yellow LED | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 < 0.1 ²⁾ | < 0.1 ²⁾ | N/A | N/A | N/A | N/A |

| | | | | | | | | | | |
|-----|--------------------------|---------------------|--------|-------|---------------------|---------------------|---------------------|-------|-------|-------|
| 035 | black controlled silicon | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A |
| 036 | silvery metal | < 0.1 | < 0.01 | < 0.1 | < 0.1 ¹⁾ | N/A | N/A | N/A | N/A | N/A |
| 037 | black IC | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A |
| 038 | black IC | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A |
| 039 | silvery plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 040 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 041 | silvery metal | < 0.1 | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A |
| 042 | silvery plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 043 | silvery metal | < 0.1 | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A |
| 044 | pink plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 045 | black diode | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 ²⁾ | < 0.1 ²⁾ | N/A | N/A | N/A |
| 046 | black IC | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | N/A | N/A | N/A |
| 047 | pink metal | < 0.1 | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A |
| 048 | black rubber | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 049 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 050 | pink plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 051 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 052 | silvery metal | < 0.1 | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A |
| 053 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 054 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 055 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 ²⁾ | < 0.1 ²⁾ | < 0.1 | < 0.1 | < 0.1 |
| 056 | black metal | 2.6 ^{3)a)} | < 0.01 | < 0.1 | < 0.1 | N/A | N/A | N/A | N/A | N/A |
| 057 | black plastic | < 0.1 | < 0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

1) The analysis by X-ray fluorescence spectrometry showed a detection for Cr. The verification and quantification of Cr (VI) was performed by photometric analysis.

2) The analysis by X-ray fluorescence spectrometry showed a detection for Br. The verification and quantification of PBB/PBDE was performed by GC-MS.

3) The analysis by X-ray fluorescence spectrometry showed a detection for Pb. The verification and quantification of Pb was performed by ICP-OES.

a) The annex to directive 2011/65/EU (exemptions of RoHS-directive) contains following point:

“6 (c) Copper alloy containing up to 4 % lead by weight.”

N/A: Not applicable

*=With reference to IEC62321-8:2017, Analysis was performed by GC-MS.

Description of the analysis procedure (brief version):***Test of RoHS conformity***

The measurements are performed according to IEC 62321-3-1 : 2013, "Electrotechnical products - Determination of levels of six regulated substances".

The product is divided in single material samples. The materials are analysed on different parameters of the RoHS-directive to assure that the complete product is RoHS-conform or not. At first a XRF (X-ray fluorescence spectrometry) screening is performed. For every sample following statements can be made.

Table: Screening limits in mg/kg for regulated elements in various matrices

| Element | Polymers | Metals | Composite Material |
|---------|------------------------------------|------------------------------------|------------------------------------|
| Cd | BL ≤ (70-3σ) < X < (130+3σ) ≤ OL | BL ≤ (70-3σ) < X < (130+3σ) ≤ OL | LOD < X < (150+3σ) ≤ OL |
| Pb | BL ≤ (700-3σ) < X < (1300+3σ) ≤ OL | BL ≤ (700-3σ) < X < (1300+3σ) ≤ OL | BL ≤ (500-3σ) < X < (1500+3σ) ≤ OL |
| Hg | BL ≤ (700-3σ) < X < (1300+3σ) ≤ 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 |

Below limit (**BL**): the tested material complies to the RoHS directive.

Inconclusive (**X**): If the level of the measurement is around the maximum allowed, or if the level for Chrome or Bromine is too high, other more accurate methods are needed to determine the exact level or the composition of Chrome and Bromine.

Over limit (**OL**): If the level of lead, mercury or cadmium is well above the maximum allowed levels (the XRF uncertainty is taken into account), the tested material does not comply with the RoHS directive.

In case of **inconclusive** XRF results, following analysis procedures are applied:

In order to examine the material samples for the heavy metals cadmium, lead and mercury they are digested in acid and the solutions are used to carry out the analysis for the heavy metals by ICP-OES or atomic-absorption spectroscopy.

Hexavalent chromium is checked by extracting the sample with water at 100 °C (determination of Cr VI in colorless and colored chromate coating on metals) respectively with alkaline extraction at 90-95 °C (determination of Cr VI in polymers and electronic components) followed by photometric analysis.

In the case of metallic components with a surface coating containing hexavalent Chromium (passivation) the concentration is expressed in mg of Chromium VI per component. In order to obtain further information about the concentration on the surface coating it is necessary to know the weight per unit area of the coating and the surface area of the component. Information about surface coatings is to be provided by the client.

The examination for bromine-based flame retardant products is carried out by gas chromatography-mass spectrometry after extraction by solvents; this involves the individual analysis and quantification of the substances specified in the RoHS. The current valid regulations relating to exceptions in respect of the analysed substances are to be taken into account by the client.

The following Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) are analyzed:

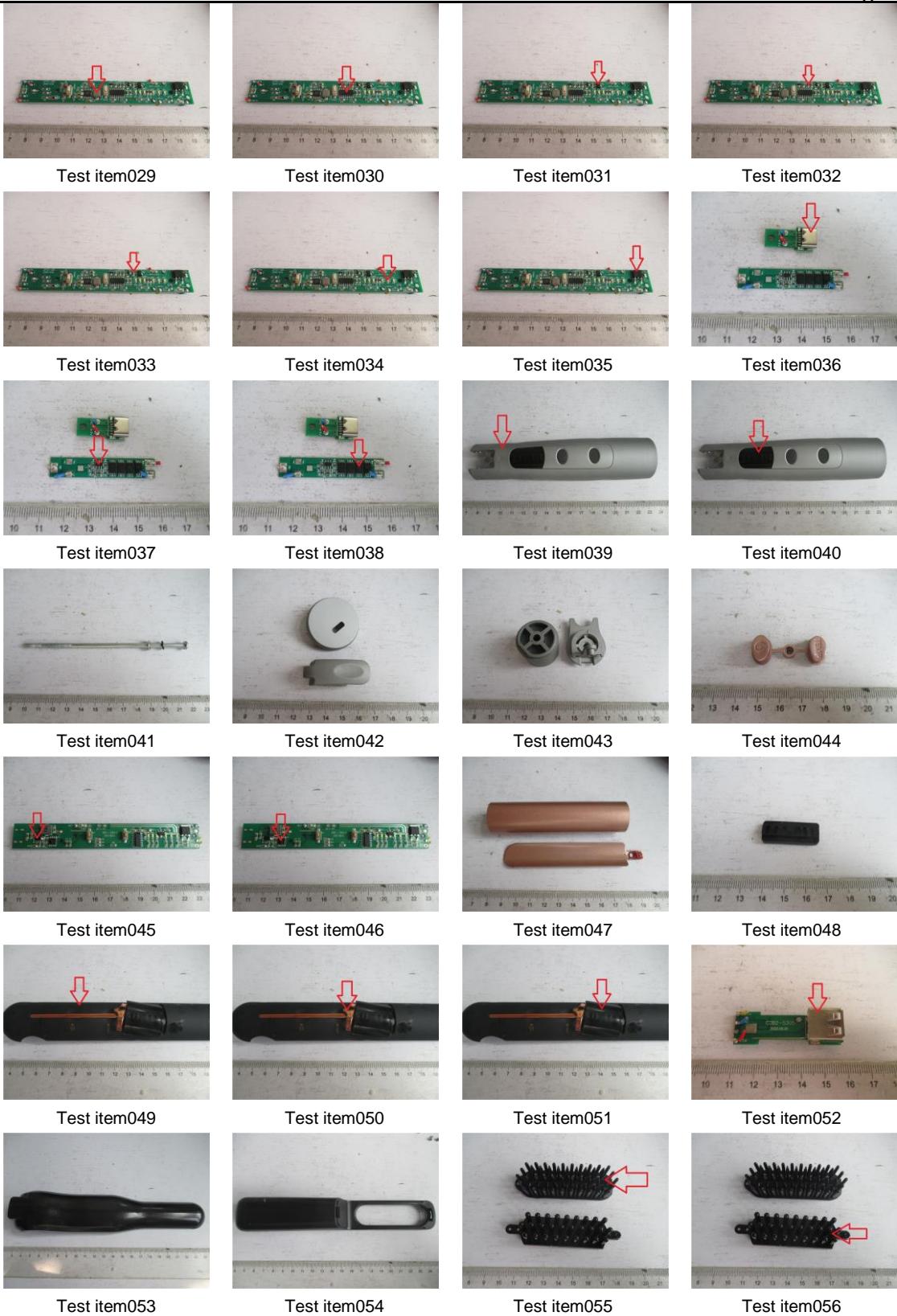
2-Bromobiphenyl PBB2, Dibromobiphenyl PBB15, Tribromobiphenyl PBB30, Tetrabromobiphenyl PBB52, Pentabromobiphenyl PBB103, Hexabromobiphenyl PBB153, Heptabromobiphenyl PBB250, Octabromobiphenyl PBB250, Nonabromobiphenyl PBB250, Decabromobiphenyl PBB209, Bromodiphenylether BDE2, Dibromodiphenylether BDE15, Tribromodiphenylether BDE30, Tetrabromodiphenylether BDE62, Pentabromodiphenylether BDE99, Hexabromodiphenylether BDE153, Heptabromodiphenylether BDE183, Octabromodiphenylether BDE203, Nonabromodiphenylether BDE206, Decabromodiphenylether BDE209.

Limits according to RoHS (2011/65/EU) and its subsequent amendments directive (EU) 2015/863 / Test methods (additional chemical analysis):

| Parameter | Limits according to RoHS | Test method |
|---------------------|--------------------------------|--|
| Cadmium | 0,01 % (100 mg/kg or 0,1 g/kg) | IEC62321-5:2013 |
| Lead | 0,1 % (1000 mg/kg or 1 g/kg) | IEC62321-5:2013 |
| Hexavalent Chromium | 0,1 % (1000 mg/kg or 1 g/kg) | Metal: IEC62321-7-1:2015 Non-metal: IEC62321-7-2:2017 |
| Mercury | 0,1 % (1000 mg/kg or 1 g/kg) | IEC62321-4:2013/AMD1:2017 |
| PBB and PBDE | 0,1 % (1000 mg/kg or 1 g/kg) | IEC62321-6:2015 |
| DEHP | 0,1 % (1000 mg/kg or 1 g/kg) | IEC62321-8:2017 |
| BBP | 0,1 % (1000 mg/kg or 1 g/kg) | IEC62321-8:2017 |
| DBP | 0,1 % (1000 mg/kg or 1 g/kg) | IEC62321-8:2017 |
| DIBP | 0,1 % (1000 mg/kg or 1 g/kg) | IEC62321-8:2017 |

Sample Photos







Test item057

---End of Report---

Please note that every statement made in this report is only valid for the samples tested and reported herein. Samples were provided by applicant. Without consent of the testing organization, this report shall not be reproduced except in full and the clients shall not be unauthorized use of test results for improper propaganda. DEKRA declines any responsibility with deviations required by the customer that may affect the validity of result. The information is provided by the customer in this report may affect the validity of the results; the test lab is not responsible for it. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to calculate the uncertainty associated with the measurement result, unless the specification, standard or customer have special requirements. This report is not used for social proof function in China market

Annex

Information in annex are given by client, the authenticity is guaranteed by client

Reference Model : THW-RHS09; THW-RHS11