

Report No.: 18300RC00392701

Test Report

Client Name : Woan Technology (Shenzhen) Co., Ltd.

Room 101-116, Building B4, Yintian Industrial Zone,Address: Xixiang Street, Bao'an District, Shenzhen, Guangdong,
P.R.China, 518102

Product Name : SwitchBot Hub Mini

Date : Sept. 22, 2020



Shenzhen Anbotek Compliance Laboratory Limited

* Approved *

Shenzhen Anbotek Compliance Laboratory Limited

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Report No.: 18300RC00392701 Date: Sept. 22, 2020

Page 1 of 7

 Applicant
 : Woan Technology (Shenzhen) Co., Ltd.

 Address
 : Room 101-116, Building B4, Yintian Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, P.R.China, 518102

 The submitted sample and sample information was/were submitted and identified by/on the behalf

| of the client | eV | K nbotek Anbote. Anu hotek |
|----------------------|----------|----------------------------------|
| Sample Name | 90. 0 | SwitchBot Hub Mini |
| Test Model No. | Aupo | W0202200 |
| Sample Received Date | : P | Sept. 11, 2020 |
| Testing Period | : | Sept. 11, 2020 to Sept. 21, 2020 |
| | | |

Test Requested

As specified by client, to assess the reuse/recycle/recovery of the submitted sample under article 11 and Annex V of Directive 2012/19/EU.

Conclusion

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Product Safety

: When tested as specified, the results shown on the report meet the requirements of the Reuse/Recycling/Recovery Rate of Directive 2012/19/EU released on EU Official Journal (OJ)

Authorized Signatory

Test Result(s): Please refer to the following page(s).

linna Edited by

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Report No.: 18300RC00392701 Date: Sept. 22, 2020

Page 2 of 7

1. Product Description

| Product Name | SwitchBot Hub Mini |
|--------------------------------------|--------------------|
| Product Model | W0202200 |
| Product Weight | 59.2g |
| Product Size | 6.6cm×6.5cm×2.2cm |
| Category under the WEEE directive | SMALL EQUIPMENT |

Product Photo



2. Result of Reuse/Recycling/Recovery Assessments

| Reuse/Recycling/Recovery | Reuse/Recycling Rate (%) | Recovery Rate (%) |
|---|-------------------------------|---------------------------------|
| Reuse/Recycling/Recovery Target of Products Under WEEE Directive | nbolek 55 ^{00tek} An | Anbotek 75 ^{potek} Ant |
| Result of Assessment | Anootek 76.5 Anootek | 76.5 |
| WEEE Compliance | Pass | Pass |

Remark: Battery was not within the scope of WEEE, it should be complied with the Battery Directive 2006/66/EC.

3. Appearance of the Product



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Report No.: 18300RC00392701 Date: Sept. 22, 2020

Page 3 of 7

4. Disassembly Assessment

4.1 Disassembly Procedure

The product is disassembled into different parts and grouped by the type of material sharing common characteristic(such as plastic, metal, glass) based on the treatment requirements as set out in the WEEE Directive, followed by the current state of the art of recycling and recovery technology. In addition, the recycling is subject to the economic feasibility, disassembly tools, only bigger parts that can be easily separated are included in the recycling and reuse calculation. Other parts, respectively materials that cannot be separated by e.g. standard tools are classified as either unspecified materials or distributed to the relative waste fraction is expected with recovery rate.

4.2 Disassembly Tools

The disassembly tools used for this product show as following:



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Report No.: 18300RC00392701 Date: Sept. 22, 2020

Page 4 of 7

4.4 Disassembly Time

10 minute and 30 seconds

4.5 Disassembly Tree



5. Selective Treatment for Materials and Components

According to Article 8(2) and the Annex VII of the WEEE Directive, this product contains components and materials items are described in the following table.

| Component/Material | Photo No. | Size/Model | Quantity | Weight (g) |
|--------------------|-----------|-------------|-------------------|------------|
| Anbore PCB Anbo | B4 otek | 5.9cm×6.1cm | wote ^M | 13.9 × |

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Report No.: 18300RC00392701 Date: Sept. 22, 2020

Page 5 of 7

6. Material Recycling Information

6.1 Material Reuse/Recycling and Recovery Table

| Photo No. | Component / Material Composition | Weight (g) | Percent Weight (%) | Reuse / Recycling Rate(%) | Energy Recovery Rate(%) | Recovery Rate(%) |
|--------------|--|----------------------|-----------------------|---------------------------------------|-------------------------------|---------------------|
| B1 | Plastic Parts | 26.5 | 44.8 | 35.8 | of I yot | 35.8 |
| B2 | Cable | 16.8 | 28.4 | o ^{tek} 21.3 m ^{bo} | I pri | 21.3 hot |
| B3 | Metal Parts | ote ^k 2 p | 3.4 | 1.8 | boter / Ant | 1.8 |
| B4 bote | PCB | 13.9 | 23.4 | 17.6 | bote | 17.6 |
| ok n | Lose rate | Ann Liek | anbriek | Anbo | brek | Anbor |
| No. Pu. | Total | 59.2 | 100.0 | 76.5 | Am | 76.5 |

Note: Plastic containing brominated flame retardants is not assessed in the list

6.2 Reuse/Recycling and Recovery Rate Calculation

| Calculation Method | botek Anbor h hotek A |
|---|----------------------------|
| Product total weight | a (g) |
| Weight of components, sub-assemblies and consumables which are reused for their original purpose or recycled. | b (g) |
| Weight of materials or components where energy is recovered through incineration. | hubotek c (g) potek hubote |
| Reuse / Recycling Rate | b/a *100 (%) |
| Recovery Rate | (b+c)/a *100 (%) |

7. ANNEX VII of WEEE Directive (2012/19/EU)

Selective treatment for materials and components of waste electrical and electronic equipment referred to in Article 8(2)

As a minimum the following substances, mixtures and components have to be removed from any separately collected WEEE

—polychlorinated biphenyls (PCB) containing capacitors in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT),

-mercury containing components, such as switches or backlighting lamps,

-batteries,

—printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres,

-toner cartridges, liquid and paste, as well as colour toner,

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Report No.: 18300RC00392701 Date: Sept. 22, 2020

Page 6 of 7

-plastic containing brominated flame retardants,

-asbestos waste and components which contain asbestos,

-cathode ray tubes,

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----chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), hydrocarbons (HC),

-gas discharge lamps,

—liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimeters and all those back-lighted with gas discharge lamps,

-external electric cables,

—components containing refractory ceramic fibres as described in Commission Directive 97/69/EC of 5 December 1997 adapting to technical progress for the 23rd time Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances,

—components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionizing radiation,

—electrolyte capacitors containing substances of concern (height > 25 mm, diameter > 25 mm or proportionately similar volume). These substances, mixtures and components shall be disposed of or recovered in compliance with Directive 2008/98/EC.

8. Recommendations for WEEE Directive Compliance

(1) To make the product comply with the reuse/recycling/recovery target required under WEEE Directive (2012/19/EU) and other EU waste regulation, the applicant company should consider the product they design can be easily reused and recycled by selecting recyclable materials and components.

(2) To make the product easily dismantled, less the disassembling time, the applicant company should design the product for easy disassembly by choosing easy separate techniques, avoiding the utilizing embedded components, designing the separable procedure.

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Report No.: 18300RC00392701 Date: Sept. 22, 2020

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Product Safety

Page 7 of 7

(3) The product should be subjected to the RoHS Directive (2011/65/EU), restricting using hazardous substance. In addition, the materials selected to design should consider the dangerous substance regulated or list under other environmental specifications, as Regulation (EC) 1907/2006(REACH), 67/548/EEC, etc.

(4) In case that a product have new design, or employ materials or components, then the product should need to be reassessed and retested in accordance with the WEEE Directive for reuse/recycle/recycling target and RoHS for restricted substances requirement.

(5) The applicant company should take attention to the future possible update concerning the WEEE Directive and related requirement.

***** End of Report *****

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