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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 46501-2025

**Code for design of user experience laboratory for household
appliances**

家用电器用户体验实验室设计规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China National Light Industry Council. This document is under the jurisdiction of the National Technical Committee on Standardization of Household Appliances (SAC/TC46). This document was drafted by: China Household Electric Appliance Research Institute, Wuhu Midea Intelligent Kitchen Appliance Manufacturing Co., Ltd., and Ningbo Fotile Kitchenware Co., Ltd. Qingdao Haier Air Conditioner Co., Ltd., Qingdao Hisense Hitachi Air Conditioning Systems Co., Ltd., Guangdong Vanward Gas Appliances Co., Ltd., Guangdong Midea Refrigeration Equipment Co., Ltd., Qingdao Haier Smart Kitchen Appliances Co., Ltd., Sichuan Changhong Electronic Holding Group Co., Ltd., Ecovacs Robotics Joint-stock company, Zhejiang Supor Home Appliance Manufacturing Co., Ltd., Shenzhen Angel Drinking Water Industry Group Co., Ltd., Hisense Refrigerator Co., Ltd. Qingdao Haier Smart Technology R&D Co., Ltd., Zhuhai Jingshi Measurement & Control Technology Co., Ltd., Songyan Technology (Hangzhou) Co., Ltd., China Household Electric Appliance Research Institute (Beijing) Testing and Certification Co., Ltd. The main drafters of this document are. Qu Zongfeng, Liang Jing, Li Yu, Tang Xuejin, Wei Weijie, Gao Ru, Yao Kuntong, Ren Zhaoting, Ma Haichuan, Gao Kai, and Yang Lin. Zhong Ming, Yan Hai, Tang Hui, Cheng Haiyan, Li Yan, Jia Guowei, Wu Chuanhui, Yang Jianwen, Jiao Can. Home Appliance User Experience Lab Design Specifications

1 Scope

GB/T 46501-2025 is the Chinese national standard covering the room where appliances are tested on real users - the layout and the observation arrangement, the recording equipment and the acoustics, the utilities the appliances need, and the consent and privacy of the participants. First edition, in force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026.

This document specifies the design requirements for a user experience laboratory for home appliances. This document applies to the design of a home appliance user experience laboratory (hereinafter referred to as the "Laboratory").

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 32146.1-2015 Technical requirements for the design and construction of testing and inspection laboratories - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 User experience Users' feelings and reactions to using or expecting to use a system, product or service. [Source: GB/T 18978.11-2023, 3.2.3, with modifications]

3.2 The main area used for research, testing, evaluation, and optimization of user experience.

Note. Includes functional areas such as user interview room, user evaluation room, monitoring and observation room, and human factors-specific evaluation room.

3.3 User Interview Room The main area used for receiving users, introducing tests, conducting interviews, etc.

3.4 The main area used to evaluate the user experience of a product.

3.5 Primarily used for testing personnel to observe users without interfering with experiments, and for monitoring laboratories and experimental equipment. area.