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**Guidance on monitoring validity of the results for chemical
analysis laboratory**

化学分析实验室结果有效性监控指南

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Foreword

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Chemical analysis involves many industries and fields such as chemical industry, petroleum, geology, environment, food and medicine, and the validity of laboratory test results is monitored especially important. With the wide application of the international standard ISO /IEC 17025 and the continuous enhancement of laboratory quality awareness, laboratory managers have More and more attention has been paid to the monitoring of the validity of the test results, and the monitoring of the validity of the test results has become an important part of laboratory management. Although ISO /IEC 17025 gives general requirements for laboratories to ensure the validity of results, and applies to all testing laboratories carrying out test results with The organization and management of effectiveness monitoring, however, due to the uneven level of laboratory capacity, many laboratories are carrying out results effectiveness monitoring and management. There is still a lot of confusion. According to the technical characteristics of chemical analysis laboratories, this document clarifies the general principles of monitoring and management of the effectiveness of results, and guides the risk-based The basic method of analyzing and evaluating results is used for monitoring and planning, and the selection and evaluation of internal monitoring methods, external monitoring methods and their results are given. The specific guidance for application is aimed at improving the quality of laboratory test results and improving the validity and reliability of laboratory test results. Guidelines for Monitoring the Validity of Chemical Analysis Laboratory Results

1 Scope

GB/Z 27426-2022 is the Chinese national standard on guidance on monitoring validity of the results for chemical analysis laboratory, in the field of services and company organization. The /Z suffix marks it as a guiding technical document: it does not prescribe requirements that can be certified against, but sets out the technique, the method or the state of the art that the standards bodies recommend following. It was issued on 12 October 2022 by the State Administration for Market Regulation; Standardization Administration of China. As a guiding technical document it carries no separate date of entry into force: it

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This document provides general principles, monitoring planning, internal and external monitoring methods and implementation requirements for the effectiveness of monitoring results in chemical analysis laboratories. Points and results evaluation and other guidance. This document is intended to guide the monitoring of the validity of chemical analysis laboratory results.

2 Common Terms and Definitions

GB/T 19000-2016 Quality Management System Fundamentals and Terminology

GB/T 27025-2019 General requirements for the competence of testing and calibration laboratories

JJF1001-2011 General Metrology Terms and Definitions

JJF1033-2016 Measurement Standard Assessment Specification

JJF1059.1-2012 Evaluation and representation of measurement uncertainty

3 Terms, Definitions and Symbols GB/T 6379.1-2004, GB/T 15000.2-2019, GB/T 19000-2016, JJF1001-2011,

JJF1033-2016 Terms and definitions defined in

JJF1059.1-2012 apply to this document. For convenience, this document repeats the following terms and definitions.

3.1 Terms and Definitions

3.1.1 effectiveness The extent to which planned activities are completed and planned results are obtained. [Source: GB/T 19000-2016, 3.7.11]

3.1.2 calibration A set of operations under specified conditions, the first step of which is to determine the relationship between the magnitude provided by the measuring standard and the corresponding indication, the second step It is to use this information to determine the relationship between the measurement results obtained from the indication value, where both the quantity provided by the measurement standard and the corresponding indication value have measurement uncertainty. fixed. [Source: JJF1001-2011, 4.10]