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**INDUSTRY STANDARD OF THE
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**Calibration Specification for Workstation of Chromatographic
Data
(English Translation)**

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Table of Contents

Introduction (II)	
1 Scope (1)	
2 References (1)	
3 Overview (1)	
4 Metering characteristics (1)	
5 Calibration conditions (2)	
5.1 Environmental conditions (2)	
5.2 Measuring equipment (2)	
6 Calibration items and calibration methods (2)	
6.1 Sampling frequency (2)	
6.2 Baseline noise and baseline drift (2)	
6.3 Interval error and repeatability (3)	
6.4 Voltage indication error and repeatability (3)	
6.5 Dynamic Linearity (4)	
6.6 Qualitative Repeatability and Quantitative Repeatability (4)	
6.7 Quantitative error (4)	
7 Calibration results (4)	
8 Recurrence time interval (5)	
Appendix A Chromatographic Signal Generators (6)	
Appendix B Calibration records (for reference) (7)	
Appendix C Calibration Certificate Inside Page Format (9)	
Appendix D Examples of Measurement Uncertainty Evaluation (11)	

8 Recurrence time interval (5)

Appendix A Chromatographic Signal Generators (6)	
Appendix B Calibration records (for reference) (7)	
Appendix C Calibration Certificate Inside Page Format (9)	
Appendix D Examples of Measurement Uncertainty Evaluation (11)	

Introduction

This specification is based on JJF 1001-2011 "General measurement terms and definitions", JJF 1071-2010 "National measurement Calibration rules for the preparation of rules ", JJF 1059.1-2012" measurement uncertainty assessment and representation "as the basis and basis, Reference GB/T 25478-2010 "Chromatographic Data Workstation", ASTM E1657-98 (2011) "Liquid Chromatography Quot; Standard Practice for Test & It; RTI ID = 0.0 & gt; & lt;/RTI & gt;

Photometric Detectors Used in Liquid Chromatography).

This specification is the first release.

Standard for Calibration of Chromatographic Data Workstations

1 Scope

This specification applies to the chromatographic data of the analog interface used in liquid chromatography, gas chromatograph, ion chromatograph Station calibration. Other types of chromatographic data The calibration of the workstation can be done with reference to this specification.

2 reference file

This specification refers to the following documents.

Chromatographic Data Workstation Standard Test Method for Variable Wavelength Photometric Detectors for Liquid Chromatography (Standard Practice for Testing Variable-Wavelength Photometric Detectors Used in Liquid Chromatography for dated references, only the dated edition applies to this specification; references that are not dated , The latest version (including all modifications) applies to this specification.

3 Overview

The chromatographic data workstation consists of a computer, one or more data collectors and colors that convert analog signals into digital Spectrum data processing software, is able to complete the chromatograph signal conversion, data acquisition, analysis, storage and other functions Complete system.

4 measurement characteristics Chromatographic data station measurement of the technical indicators in Table 1.

Table 1 Chromatographic data workstation main technical indicators

Terms and Conditions Technical Specifications 4.1 sampling frequency $\geq 20\text{Hz}$

4.2 Baseline noise $\leq 6\mu\text{V}$

4.3 Baseline drift $\leq 50\mu\text{V/h}$

- 4.4 Maximum permissible error of time interval $\pm 0.6s$ 4.5 time interval repeatability $\leq 1s$
- 4.6 Voltage indication maximum allowable error $\pm 1\%$ 4.7 voltage indication repeatability $\leq 0.01\%$
- 4.8 Dynamic linear correlation coefficient $r \geq 0.9998$
- 4.9 Qualitative Repetitive RSD Retention Time $\leq 0.3\%$
- 4.10 Quantitative repeatability RSD peak height $\leq 0.3\%$, RSD peak area $\leq 0.3\%$
- 4.11 Quantitative maximum allowable error $\pm 0.5\%$ Note. The technical indicators are not used for qualified judgment, for reference only.