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

GB/T 10092-2009

Replacing GB/T 10092-1988

**Statistical interpretation of data - Multiple comparison for test
results**

数据的统计处理和解释 测试结果的多重比较

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Table of Contents

1 Scope	1
2 Normative references	1
4 Test leadership team and their responsibilities 2 5 finishing the test results, calculations and test	2
5.1 Test results finishing	2
5.2 calculate the average and the processing of each treated sample variance	3
5.4 recalculation process and calculate the variance of 3 public 6 multiple comparison procedure	4
6.2 k (T method)	5
6.3 treatment groups Mean comparison between (S method)	6
11 Annex B (informative) with multiple comparison statistical table	12

Foreword

"Data processing and interpretation of the statistics" includes the following national standards. Statistical processing and interpretation

--- GB/T 3359 statistical data to determine the tolerance interval Statistical interpretation of comparison in the case of two paired observations mean

--- GB/T 3361 data Statistical interpretation of Binomial Distribution Reliability sided lower confidence limit

--- GB/T 4087 data

--- Statistical processing and interpretation binomial distribution parameters GB/T 4088 Estimation and Test Data

--- Statistical processing and interpretation of the Poisson distribution parameters GB/T 4089 Estimation and test data

--- GB/T 4882 Statistical interpretation of data normality test

--- Analyzing and processing GB /statistical processing and interpretation of normal sample outliers T 4883 data

--- GB/T 4885 Normal distribution complete reliability lower confidence limit

--- GB /statistical processing and interpretation of the mean and variance of normal distribution of data T 4889 Estimation and Testing

--- GB Statistical interpretation of normal distribution mean and variance test the efficacy/T 4890 data

--- GB /Statistical interpretation Gamma distribution (Pearson III distribution) parameters T 8055 data estimates

--- GB /statistical processing and interpretation of data distribution index T 8056 judgment and sample handling outliers Analyzing and Processing

--- GB /statistical processing and interpretation of Type I extreme value distribution of the sample outliers T 6380 data

1 Scope

GB/T 10092-2009 is the Chinese national standard on statistical interpretation of data - multiple comparison for test results, in the field of services and company organization. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 15 October 2009 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2009. Classification: ICS 03.120.30, CCS A41. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the basic principles and methods for the same individual indicators more treatments for multiple comparisons test and statistical analysis, to Obtain comparable results. This standard applies to production and scientific experiments of any one single indicator (average) comparison problem. Compare several products such as the quality of Indicators, several process conditions or results of several test methods.

Note. This standard is assumed that the test results of the same treatment from the same normal population, involved in the variance comparison of different treatments are basically the same.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 3358.1 Statistics Vocabulary and symbols - Part 1. General statistical terms and terms (

GB/T 3358.1- for Probability 2009, ISO 3534-1.2006, IDT)

GB/T 3358.2 Statistics Vocabulary and symbols - Part 2. Applied Statistics (GB/T 3358.2-2009, ISO 3534-2.2006, IDT)

GB/T 3358.3 Statistics Vocabulary and symbols - Part 3. Design of Experiments (GB/T 3358.3-2009, ISO 3534-3.1999, IDT)

GB/T 6379.2 measurement methods and results of Accuracy (trueness and precision) - Part 2. Determine the standard measurement method to repeat Of the basic methods of reproduction (GB/T 6379.2-2004, ISO 5725-2.1994, IDT)

3 Terms and Definitions

GB/T 3358.1, GB/T 3358.2 and GB/T 3358.3 and established the following terms and definitions apply to this standard.

3.1 Characteristics of test methods according to the provisions of the obtained values.

Note 1. The test method should specify one or multiple observations, test results reported is the average of the observed values or its other functions (such as median or Standard deviation). It can be required by the applicable standards be amended, as amended gas volume at standard temperature and pressure. Therefore, a test result If the results can be calculated by several observations. In the simplest case, the test result is the observation itself.

Note 2. The test method is defined in ISO /IEC Guide 2 for the "completion of a testing technique prescribed procedures."

3.2 Comparison of various objects involved in the process is called.

3.3 Benchmark comparison plays a role in the treatment of special treatment.

3.4 At the same statistical test whether there were significant differences between the relatively more treatments.