

# ISO/TR 11462-3:2020 (E)

## Guidelines for implementation of statistical process control (SPC) — Part 3: Reference data sets for SPC software validation

---

### Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions, and symbols and abbreviated terms
3.1	Terms and definitions
3.2	Symbols and abbreviated terms
4	Overview of the test examples
5	Reference data sets description and evaluation
5.1	Test data set 1
5.1.1	Test data set 1 information
5.1.2	Test data set 1 results
5.1.2.1	List of sample statistics
5.1.2.2	$\bar{x}$ chart
5.1.2.3	X chart
5.1.2.4	$\tilde{x}$ chart
5.1.2.5	s chart
5.1.2.6	R chart
5.1.2.7	Moving range chart
5.1.2.8	Process capability
5.2	Test data set 2
5.2.1	Test data set 2 information
5.2.2	Test data set 2 results
5.2.2.1	List of sample statistics
5.2.2.2	$\bar{x}$ chart
5.2.2.3	X chart
5.2.2.4	$\tilde{x}$ chart
5.2.2.5	s chart
5.2.2.6	R chart
5.2.2.7	Moving range chart
5.2.2.8	Process capability
5.3	Test data set 3
5.3.1	Test data set 3 information
5.3.2	Test data set 3 results
5.3.2.1	List of sample statistics
5.3.2.2	$\bar{x}$ - chart
5.3.2.3	X chart
5.3.2.4	$\tilde{x}$ chart
5.3.2.5	s chart
5.3.2.6	R chart
5.3.2.7	Moving range chart
5.3.2.8	Process capability
5.4	Test data set 4
5.4.1	Test data set 4 information
5.4.2	Test data set 4 results
5.4.2.1	List of sample statistics
5.4.2.2	$\bar{x}$ chart

5.4.2.3	X chart
5.4.2.4	$\bar{x}$ - chart
5.4.2.5	s chart
5.4.2.6	R chart
5.4.2.7	Moving range chart
5.4.2.8	Process capability
5.5	Test data set 5
5.5.1	Test data set 5 information
5.5.2	Test data set 5 results
5.5.2.1	List of sample statistics
5.5.2.2	$\bar{x}$ chart
5.5.2.3	X chart
5.5.2.4	$\bar{x}$ chart
5.5.2.5	s chart
5.5.2.6	R chart
5.5.2.7	Moving range chart
5.5.2.8	Process capability
5.6	Test data set 6
5.6.1	Test data set 6 information
5.6.2	Test data set 6 results
5.6.2.1	List of sample statistics
5.6.2.2	$\bar{x}$ chart
5.6.2.3	X chart
5.6.2.4	$\bar{x}$ chart
5.6.2.5	s chart
5.6.2.6	R chart
5.6.2.7	Moving range chart
5.6.2.8	Process capability
5.7	Test data set 7
5.7.1	Test data set 7 information
5.7.2	Test data set 7 results
5.7.2.1	List of sample statistics
5.7.2.2	$\bar{x}$ chart
5.7.2.3	X chart
5.7.2.4	$\bar{x}$ chart
5.7.2.5	s chart
5.7.2.6	R chart
5.7.2.7	Moving range chart
5.7.2.8	Process capability
5.8	Test data set 8
5.8.1	Test data set 8 information
5.8.2	Test data set 8 results
5.8.2.1	List of sample statistics
5.8.2.2	$\bar{x}$ chart
5.8.2.3	X chart
5.8.2.4	$\bar{x}$ chart
5.8.2.5	s chart
5.8.2.6	R chart
5.8.2.7	Moving range chart
5.8.2.8	Process capability
5.9	Test data set 9
5.9.1	Test data set 9 information
5.9.2	Test data set 9 results
5.9.2.1	List of sample statistics
5.9.2.2	$\bar{x}$ chart
5.9.2.3	X chart
5.9.2.4	$\bar{x}$ chart
5.9.2.5	s chart
5.9.2.6	R chart
5.9.2.7	Moving range chart
5.9.2.8	Process capability
5.10	Test data set 10
5.10.1	Test data set 10 information
5.10.2	Test data set 10 results

- 5.10.2.1 List of sample statistics
- 5.10.2.2  $\bar{x}$  chart
- 5.10.2.3 X chart
- 5.10.2.4  $\tilde{x}$  chart
- 5.10.2.5 s chart
- 5.10.2.6 R chart
- 5.10.2.7 Moving range chart
- 5.10.2.8 Process capability
- 5.11 Test data set 11
  - 5.11.1 Test data set 11 information
  - 5.11.2 Test data set 11 results
    - 5.11.2.1 List of sample statistics
    - 5.11.2.2 Grubbs tests for outliers
    - 5.11.2.3 Bartlett test for homogeneity of variances
    - 5.11.2.4 Fisher test for equal location
    - 5.11.2.5 Process capability

**Annex A (informative) Test data values**

- A.1 Test data sets 1-10
- A.2 Test data set 11

Page count: 129