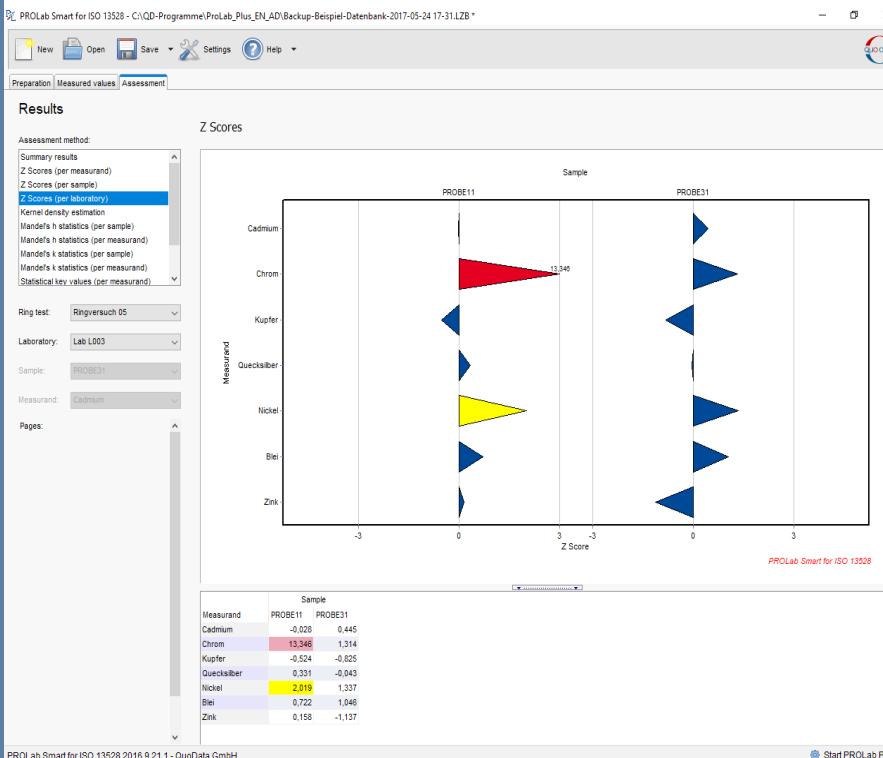


Figure 1 „Summary results“: Overview of the measurement results with the corresponding variances and tolerances. All precision data shown are calculated on the fly with the robust algorithms from ISO 13528:2015.

Figure 2 „Z Scores“: Representation of the laboratory- or analyst-specific error as scores according to ISO 13528:2015. Charts like the one below are able to highlight sample-specific and/or across-sample effects.



PROLab™ Smart is QuoData's software for planning and evaluation of proficiency tests. With its intuitive user interface PROLab™ Smart is designed for the occasional analysis of PT data according to ISO 13528:2015 and the assessment of lab performance across several laboratories.

That's how it works

With just a few clicks you can plan your proficiency test and assess data.

1. specify the interlaboratory test
2. carry out measurements (multiple labs or multiple analysts)
3. enter or import data (via copy & paste, Excel or text files)
4. results are available immediately

All charts are...

- generated with a single click
- clear and concise
- based on very simple and flexible measurement value tables

Statistical analysis

- ISO 17043 compliant evaluation acc. to ISO 13528:2015: robust algorithm A+S, Z Scores and Q/Hampel
- no complicated outlier analysis required – variance analysis at your fingertips

Output scores

- robust mean values
- robust reproducibility and repeatability s.d.
- uncertainty of the mean
- tolerance limits (individual values, to the 5 % level)
- Z Scores



High flexibility regarding study design and output

- between 3 and 100 participants per study (depending on license)
- unlimited number of analytes and samples
- up to 12 repeated measurements (per sample, participant and analyte)
- from data input to creating powerful graphics in only a few mouse clicks
- 4 different types of charts for laboratory assesment
- extensive chart editor to customize the included charts
- export charts as PNG, BMP, WMF, and SVG file
- chart raw data available as exportable tables
- export of data tables to text, Excel, XML and HTML files
- file format can also be used with more sophisticated versions of PROLab™ (PROLab™ Standard and PROLab™ Plus)

Comprehensive service

- free annual updates
- free technical hotline
- free PROLab™ user forum
- annual user workshops (fee applies)

Licensing & testing

Please request your 4-week test license now. We would be pleased to provide a price offer meeting your individual needs.

PROLab Smart for ISO 13528 - C:\QD-Programme\ProLab_Plus_EN_AD\Backup-Beispiel-Datenbank-2017-05-24 17-31.LZB *

Preparation | Measured values | Assessment

Measured values

Import data | Export report

Ansicht: Values per measurand, Values per sample 1, Values per sample 2, Values per laboratory, Laboratories & measurands X sam, Laboratories & samples X measur

Ring test: Ringversuch 05

Measurand: Cadmium

Laboratory	PROBE11				PROBE21				PROBE31			
	M 1	M 2	M 3	M 4	M 1	M 2	M 3	M 4	M 1	M 2	M 3	M 4
Lab L003	0.514	0.487	0.494	0.492	0.438	0.449	0.447	0.451	0.824	0.957	1.158	1.165
Lab L005	0.547	0.560	0.551	0.552	0.438	0.449	0.447	0.451	0.782	0.818	0.794	0.830
Lab L007									0.896	1.028	1.020	1.025
Lab L008	0.464	0.452	0.458	0.454	0.342	0.332	0.331	0.330	0.785	0.757	0.757	0.756
Lab L012	0.561	0.518	0.532	0.528	0.595	0.689	0.672	0.679	0.846	0.927	1.382	1.311
Lab L013	0.500	0.490	0.491	0.493	0.436	0.460	0.457	0.453	1.020	1.108	1.088	1.084
Lab L016	0.444	0.455	0.461	0.456	0.449	0.441	0.445	0.439	0.953	1.020	1.016	1.022

PROLab Smart for ISO 13528 2016.9.21.1 - QuoData GmbH

Preparation | Measured values | Assessment

Preparation of ring test

Structure of ring test:

- Backup-Beispiel-Datenbank-2017-05-24
 - Ringversuch 01
 - Ringversuch 02
 - Ringversuch 03
 - Ringversuch 04
 - Ringversuch 05
 - Laboratories
 - Measurands
 - Samples
 - Units and target values
 - Ringversuch 06
 - Ringversuch 07
 - Ringversuch 08
 - Ringversuch 09
 - Ringversuch 10
 - Ringversuch 11
 - Ringversuch 12
 - Ringversuch 13
 - Ringversuch 14
 - Ringversuch 15
 - Ringversuch 16
 - Ringversuch 17
 - Ringversuch 18
 - Ringversuch 19
 - Ringversuch 20
 - X1

Ring test Ringversuch 05

Date of analysis: 01.07.2007

Date of report:

Date of conclusion:

Description:

Laboratories: Lab L012, Lab L013, Lab L016, 7 laboratories

Measurands: Cadmium, Chrom, Kupfer, Quecksilber, 7 measurands

Samples: PROBE11, PROBE21, PROBE31, PROBE51, 4 samples

Start PROLab Plus

