

Fluxana, Deutschland - Zement FLX-CRM 122

Veranstalter: FluXana GmbH & Co. KG, Borschelstr. 3, 47551 Bedburg-Hau

Ringversuchsmaterial: FLX-CRM 122

RV geschlossen: 2015 – 3

Literatur: Final Proficiency Test Report FLX-CRM 118-122 (CRB Laborcode = 25)

Hauptelemente [MA%]

| | CRB | RV | 1sRV | Z-Score |
|--------------------------------|-------|--------|-------|---------|
| Al ₂ O ₃ | 5,54 | 5,634 | 0,195 | -0,5 |
| CaO | 59,14 | 59,166 | 0,498 | -0,1 |
| Fe ₂ O ₃ | 1,71 | 1,756 | 0,062 | -0,8 |
| K ₂ O | 0,85 | 0,867 | 0,068 | -0,2 |
| MgO | 2,00 | 2,001 | 0,080 | 0,0 |
| Na ₂ O | 0,21 | 0,189 | 0,063 | 0,3 |
| P ₂ O ₅ | 0,065 | 0,067 | 0,009 | -0,2 |
| SiO ₂ | 21,46 | 21,905 | 0,349 | -1,3 |
| SO ₃ | 3,39 | 3,267 | 0,147 | 0,8 |
| TiO ₂ | 0,356 | 0,356 | 0,020 | 0,0 |
| LOI | 4,45 | 4,646 | 0,151 | -1,3 |

Spurenelemente [µg/g]

| | CRB | RV | 1sRV | Z-Score |
|--------------------------------|-------|-------|-------|---------|
| Cr ₂ O ₃ | 0,007 | 0,007 | 0,004 | 0,0 |
| Mn ₂ O ₃ | 0,112 | 0,112 | 0,010 | 0,0 |
| SrO | 0,136 | 0,126 | 0,014 | 0,7 |
| ZnO | 0,026 | 0,027 | 0,006 | -0,2 |

Legende

CRB: Ergebnisse CRB – **RV:** Ergebnisse Ringversuch -- **1s-RV:** Standardabweichung Ringversuch

Z-Score: Differenz des Messwertes vom Mittelwert des Ringversuchs -- * Wert nicht zertifiziert

FLUXANA

Final Proficiency Test Report

FLX-CRM 118, FLX-CRM 119, FLX-CRM 120, FLX-CRM 121, FLX-CRM 122



Bedburg-Hau, 25.03.2015

Coordinator of PT
Charlotte Winkels-Herding

Charlotte Winkels-Herding

Head of Laboratory
Dr. Barbara Schäfer

B. Schäfer

Statistics and Report
Dr. Rainer Schramm

R. Schramm

Summary of test results

| FLX-CRM 118 | Mean % | U (95%) | s_r | s_R | Mean - 2*s_R | Mean + 2*s_R |
|--|---------------|----------------|----------------------|----------------------|-------------------------------|-------------------------------|
| Al₂O₃ | 6,945 | ±0,100 | 0,022 | 0,256 | 6,434 | 7,457 |
| CaO | 55,848 | ±0,215 | 0,084 | 0,501 | 54,847 | 56,85 |
| Cr₂O₃ | 0,011 | ±0,002 | 0,001 | 0,003 | 0,004 | 0,018 |
| Fe₂O₃ | 3,904 | ±0,045 | 0,014 | 0,116 | 3,673 | 4,136 |
| K₂O | 0,969 | ±0,021 | 0,008 | 0,052 | 0,864 | 1,074 |
| MgO | 2,059 | ±0,033 | 0,017 | 0,084 | 1,89 | 2,228 |
| Mn₂O₃ | 0,178 | ±0,007 | 0,003 | 0,015 | 0,148 | 0,207 |
| Na₂O | 0,169 | ±0,025 | 0,008 | 0,059 | 0,051 | 0,286 |
| P₂O₅ | 0,161 | ±0,003 | 0,002 | 0,007 | 0,148 | 0,175 |
| SiO₂ | 21,601 | ±0,135 | 0,037 | 0,304 | 20,992 | 22,21 |
| SrO | 0,084 | ±0,006 | 0,001 | 0,011 | 0,061 | 0,107 |
| Sulfate expressed as SO₃ | 2,915 | ±0,104 | 0,048 | 0,08 | 2,755 | 3,075 |
| Sulfide expressed as S | 0,131 | ±0,155 | 0,021 | 0,124 | -0,118 | 0,379 |
| Total S expressed as SO₃ | 2,965 | ±0,064 | 0,02 | 0,146 | 2,672 | 3,258 |
| TiO₂ | 0,305 | ±0,008 | 0,006 | 0,018 | 0,269 | 0,342 |
| ZnO | 0,051 | ±0,004 | 0,001 | 0,008 | 0,036 | 0,066 |
| LOI (1h @ 950°C) observed | 4,935 | ±0,065 | 0,029 | 0,172 | 4,591 | 5,279 |
| Sum (SO ₃ wet chemistry) | 100,46 | | | | | |
| Sum (SO ₃ xrf) | 100,19 | | | | | |
| Total S (Sulfate+Sulfide) SO ₃ | 3,24 | | | | | |
| FLX-CRM 119 | Mean % | U (95%) | s_r | s_R | Mean - 2*s_R | Mean + 2*s_R |
| Al₂O₃ | 7,378 | ±0,075 | 0,026 | 0,192 | 6,995 | 7,762 |
| CaO | 54,144 | ±0,255 | 0,109 | 0,596 | 52,952 | 55,336 |
| Cr₂O₃ | 0,01 | ±0,002 | 0,001 | 0,004 | 0,003 | 0,018 |
| Fe₂O₃ | 3,112 | ±0,042 | 0,012 | 0,107 | 2,897 | 3,327 |
| K₂O | 1,208 | ±0,025 | 0,009 | 0,063 | 1,082 | 1,333 |
| MgO | 1,329 | ±0,026 | 0,013 | 0,066 | 1,197 | 1,461 |
| Mn₂O₃ | 0,038 | ±0,004 | 0,001 | 0,009 | 0,02 | 0,057 |
| Na₂O | 0,269 | ±0,027 | 0,01 | 0,063 | 0,143 | 0,395 |
| P₂O₅ | 0,152 | ±0,003 | 0,004 | 0,008 | 0,135 | 0,168 |
| SiO₂ | 23,955 | ±0,154 | 0,043 | 0,349 | 23,256 | 24,653 |
| SrO | 0,155 | ±0,008 | 0,001 | 0,016 | 0,123 | 0,186 |
| Sulfate expressed as SO₃ | 2,393 | ±0,079 | 0,027 | 0,08 | 2,233 | 2,553 |
| Sulfide expressed as S | 0,029 | ±0,166 | 0,004 | 0,133 | -0,238 | 0,295 |
| Total S expressed as SO₃ | 2,434 | ±0,046 | 0,029 | 0,106 | 2,221 | 2,646 |
| TiO₂ | 0,352 | ±0,006 | 0,003 | 0,015 | 0,322 | 0,382 |
| ZnO | 0,039 | ±0,003 | 0,001 | 0,006 | 0,027 | 0,05 |
| LOI (1h @ 950°C) observed | 5,654 | ±0,073 | 0,023 | 0,194 | 5,267 | 6,041 |
| Sum (SO ₃ wet chemistry) | 100,26 | | | | | |
| Sum (SO ₃ xrf) | 100,23 | | | | | |
| Total S (Sulfate+Sulfide) SO ₃ | 2,47 | | | | | |

| FLX-CRM 120 | Mean % | U (95%) | s_r | s_R | Mean - 2*s_R | Mean + 2*s_R |
|---|---------------|----------------|----------------------|----------------------|-------------------------------|-------------------------------|
| Al ₂ O ₃ | 7,602 | ±0,089 | 0,036 | 0,227 | 7,148 | 8,056 |
| CaO | 53,438 | ±0,278 | 0,101 | 0,649 | 52,139 | 54,737 |
| Cr ₂ O ₃ | 0,007 | ±0,002 | 0,001 | 0,004 | -0,001 | 0,016 |
| Fe ₂ O ₃ | 1,198 | ±0,022 | 0,008 | 0,057 | 1,083 | 1,313 |
| K ₂ O | 0,656 | ±0,023 | 0,012 | 0,058 | 0,54 | 0,771 |
| MgO | 3,514 | ±0,039 | 0,019 | 0,1 | 3,313 | 3,715 |
| Mn ₂ O ₃ | 0,182 | ±0,007 | 0,002 | 0,016 | 0,15 | 0,213 |
| Na ₂ O | 0,194 | ±0,026 | 0,008 | 0,061 | 0,072 | 0,317 |
| P ₂ O ₅ | 0,086 | ±0,004 | 0,002 | 0,009 | 0,067 | 0,104 |
| SiO ₂ | 26,339 | ±0,185 | 0,05 | 0,418 | 25,504 | 27,175 |
| SrO | 0,121 | ±0,006 | 0,001 | 0,012 | 0,097 | 0,144 |
| Sulfate expressed as SO ₃ | 3,206 | ±0,124 | 0,02 | 0,08 | 3,046 | 3,366 |
| Sulfide expressed as S | 0,632 | ±0,149 | 0,013 | 0,133 | 0,366 | 0,898 |
| Total S expressed as SO ₃ | 4,348 | ±0,135 | 0,036 | 0,302 | 3,745 | 4,952 |
| TiO ₂ | 0,597 | ±0,011 | 0,005 | 0,027 | 0,544 | 0,651 |
| ZnO | 0,009 | ±0,002 | 0,001 | 0,003 | 0,002 | 0,015 |
| LOI (1h @ 950°C) observed | 1,842 | ±0,097 | 0,027 | 0,256 | 1,329 | 2,355 |
| Sum (SO ₃ wet chemistry) | 100,57 | | | | | |
| Sum (SO ₃ xrf) | 100,13 | | | | | |
| Total S (Sulfate+Sulfide) SO ₃ | 4,79 | | | | | |

| FLX-CRM 121 | Mean % | U (95%) | s_r | s_R | Mean - 2*s_R | Mean + 2*s_R |
|---|---------------|----------------|----------------------|----------------------|-------------------------------|-------------------------------|
| Al ₂ O ₃ | 8,782 | ±0,110 | 0,039 | 0,282 | 8,218 | 9,346 |
| CaO | 44,755 | ±0,285 | 0,108 | 0,664 | 43,427 | 46,082 |
| Cr ₂ O ₃ | 0,009 | ±0,002 | 0,001 | 0,004 | 0,001 | 0,017 |
| Fe ₂ O ₃ | 3,075 | ±0,042 | 0,019 | 0,107 | 2,861 | 3,289 |
| K ₂ O | 2,712 | ±0,052 | 0,01 | 0,129 | 2,454 | 2,97 |
| MgO | 1,405 | ±0,032 | 0,012 | 0,082 | 1,241 | 1,568 |
| Mn ₂ O ₃ | 0,112 | ±0,006 | 0,001 | 0,012 | 0,088 | 0,136 |
| Na ₂ O | 1,222 | ±0,047 | 0,015 | 0,111 | 0,999 | 1,444 |
| P ₂ O ₅ | 0,113 | ±0,004 | 0,006 | 0,008 | 0,096 | 0,129 |
| SiO ₂ | 30,743 | ±0,242 | 0,068 | 0,548 | 29,648 | 31,838 |
| SrO | 0,137 | ±0,007 | 0,001 | 0,014 | 0,109 | 0,164 |
| Sulfate expressed as SO ₃ | 2,492 | ±0,076 | 0,026 | 0,08 | 2,332 | 2,652 |
| Sulfide expressed as S | 0,025 | ±0,049 | 0,015 | 0,034 | -0,043 | 0,093 |
| Total S expressed as SO ₃ | 2,526 | ±0,051 | 0,017 | 0,117 | 2,292 | 2,761 |
| TiO ₂ | 0,351 | ±0,008 | 0,005 | 0,019 | 0,312 | 0,39 |
| ZnO | 0,03 | ±0,003 | 0,001 | 0,006 | 0,019 | 0,041 |
| LOI (1h @ 950°C) observed | 4,148 | ±0,055 | 0,019 | 0,147 | 3,854 | 4,443 |
| Sum (SO ₃ wet chemistry) | 100,15 | | | | | |
| Sum (SO ₃ xrf) | 100,12 | | | | | |
| Total S (Sulfate+Sulfide) SO ₃ | 2,55 | | | | | |

| FLX-CRM 122 | Mean % | U (95%) | s_r | s_R | Mean - 2*s_R | Mean + 2*s_R |
|--------------------|---------------|----------------|----------------------|----------------------|-------------------------------|-------------------------------|
|--------------------|---------------|----------------|----------------------|----------------------|-------------------------------|-------------------------------|

| | | | | | | |
|---|--------|--------|-------|-------|--------|--------|
| Al ₂ O ₃ | 5,634 | ±0,076 | 0,03 | 0,195 | 5,245 | 6,023 |
| CaO | 59,166 | ±0,209 | 0,095 | 0,488 | 58,189 | 60,143 |
| Cr ₂ O ₃ | 0,007 | ±0,002 | 0,001 | 0,004 | 0 | 0,015 |
| Fe ₂ O ₃ | 1,756 | ±0,024 | 0,011 | 0,062 | 1,631 | 1,881 |
| K ₂ O | 0,867 | ±0,027 | 0,01 | 0,068 | 0,73 | 1,003 |
| MgO | 2,001 | ±0,031 | 0,015 | 0,08 | 1,841 | 2,162 |
| Mn ₂ O ₃ | 0,112 | ±0,004 | 0,001 | 0,01 | 0,093 | 0,131 |
| Na ₂ O | 0,189 | ±0,027 | 0,008 | 0,063 | 0,062 | 0,316 |
| P ₂ O ₅ | 0,067 | ±0,004 | 0,001 | 0,009 | 0,048 | 0,085 |
| SiO ₂ | 21,905 | ±0,154 | 0,074 | 0,349 | 21,206 | 22,604 |
| SrO | 0,126 | ±0,007 | 0,001 | 0,014 | 0,099 | 0,154 |
| Sulfate expressed as SO ₃ | 2,682 | ±0,110 | 0,026 | 0,08 | 2,522 | 2,842 |
| Sulfide expressed as S | 0,288 | ±0,087 | 0,014 | 0,078 | 0,133 | 0,444 |
| Total S expressed as SO ₃ | 3,267 | ±0,066 | 0,025 | 0,147 | 2,973 | 3,56 |
| TiO ₂ | 0,356 | ±0,008 | 0,007 | 0,02 | 0,315 | 0,397 |
| ZnO | 0,027 | ±0,003 | 0,001 | 0,006 | 0,015 | 0,039 |
| LOI (1h @ 950°C) observed | 4,646 | ±0,057 | 0,017 | 0,151 | 4,344 | 4,947 |
| Sum (SO ₃ wet chemistry) | 100,26 | | | | | |
| Sum (SO ₃ xrf) | 100,13 | | | | | |
| Total S (Sulfate+Sulfide) SO ₃ | 3,40 | | | | | |

All values are in mass % and are based on original sample material.

| | |
|---------------------------|--|
| Mean | calculated |
| U (95%) | uncertainty calculated for a confidence interval of 95% (k=2) |
| s_r | Repeatability standard deviation |
| s_R | Reproducibility standard deviation |
| Range of tolerance | All labs within this range show satisfactory performance |

Interpretation of the results

The proficiency test shows a very good agreement between the participating laboratories. The determined reproducibility standard deviation corresponds very well to the reproducibility limit of ISO 29581-2:2010. For most of the xrf elements the 'expert' performance was achieved, for all xrf elements the 'normal' performance was achieved.

The repeatability standard deviation of the LOI is in agreement with the ISO 29581-2:2010 while the reproducibility standard deviation shows higher values than given in ISO 29581-2:2010.

For sulfate z-score calculation the reference reproducibility standard deviation was taken from EN 196-2:2013-10. For sulfide the high uncertainty for FLX-CRM 118, FLX-CRM 119 and FLX-CRM 121 indicates that the mean value is below or in the range of the limit of quantification. For sulfide the results can only be seen as information but cannot be used for lab performance evaluation.

The concentration values were not corrected for any sulfide contents. Some participants have provided results with a total sum higher than 101%. These results were excluded for further calculations.

Introduction

X-ray fluorescence analysis is a widely used technique for the analysis of oxidic materials. Different ISO methods like e.g. 12677:2013 or 29581-2:2010 describe the use in detail.

However for the calibration of xrf instruments dedicated standard material is needed. As a world wide supplier for xrf laboratories FLUXANA has developed a number of services to support xrf users. One of these services is the production of new reference materials and the organization of proficiency tests (PT).

From 2011 FLUXANA has introduced its own quality management.

In February 2014 FLUXANA has received accreditation from German DAKKS according DIN EN ISO/IEC 17025 for the test laboratory in Bedburg-Hau. In February 2015 DAKKS made the first control audit.

The production of reference materials and the performance of proficiency tests is not yet accredited. However FLUXANA has applied for the accreditation process at DAKKS.

All evaluations are performed in agreement with DIN EN ISO/IEC 17043:2010-08, ISO Guide 34:2009, ISO Guide 31:2000 and ISO Guide 35:2006.

Proficiency test provider

FLUXANA GmbH & CO.KG

Borschelstrasse 3

47551 Bedburg-Hau, Germany

Coordinator: Charlotte Winkels-Herding, QM

Responsible for evaluation and data processing: Dr. Rainer Schramm, CEO

Responsible for inhouse analytical tests: Dr. Barbara Schäfer, Head of test laboratory

Subcontractors

Delivery of material by Wilhelm Dyckerhoff Institut

Performing analysis by Participants of PT

Proficiency test items

The materials were delivered by:

Wilhelm Dyckerhoff Institut

Dyckerhoff Str.7

65203 Wiesbaden

Germany

From each material about 20kg were delivered and from FLUXANA homogeneously distributed into 50ml bottles. The bottles were then vacuum packed for storage.

| Test item | Description |
|-------------|----------------------------|
| FLX-CRM 118 | CEM II/B_M (V-LL) 32,5R |
| FLX-CRM 119 | CEM II/B-M (V-LL) 32,5R |
| FLX-CRM 120 | CEM III/A 42,5N |
| FLX-CRM 121 | CEM II/B-P 42,5N |
| FLX-CRM 122 | CEM II/B-M (S-LL) 52,5N-AZ |

Proficiency test

All laboratories which applied until 31.08.2014 for the participation of this proficiency test got their samples in September 2014 and sent in their results until end of October 2014.

Certificate of Analysis

There is a certification process planned according ISO Guide 34:2009. This will be independent from this proficiency test.

Homogeneity and Stability

The material was used as delivered. Based on ISO Guide 35:2006 and DIN ISO 13528:2009-01 a homogeneity and stability study of the materials were performed.

Metrological traceability

The analysis methods used by the participants are based on international measurement standards like ISO 29581-2 (xrf fusion), EN 196-2, DIN EN 15169, ICP-OES, AAS or combustion are considered as traceable. Other methods like XRF (Pellet), TXRF or the standard less method are not seen as traceable. Values from these methods will not be taken into account for the calculation of the assigned values and the target standard deviation.

Measurement uncertainty

Measurement uncertainty includes components arising from systematic effects, such as components associated with corrections and the assigned quantity values of measurement standards, as well as the definitional uncertainty. The participants did not provide any uncertainty with the concentration values. For this proficiency test the measurement uncertainty for the final mean was calculated from the repeatability and reproducibility standard deviations.

Evaluation

Launching the process of accreditation according DIN EN ISO/IEC 17043:2010-05 FLUXANA has adapted the evaluation process to robust statistical methods.

The assigned values were determined as consensus values from the participants who used traceable methods. Additionally all statistical data were calculated using robust statistical methods according DIN ISO 13528:2009-01, ISO/TS 20612:2007 and DIN 38402-45:2014-06.

For sulfate the reproducibility standard deviation to evaluate the participants was taken from EN-196-2:2013.

Advantages of using robust statistics

Statistical methods are robust in the sense that any outliers have only a limited effect on the overall result. Steps were taken to ensure that the results are still meaningful even if the proportion of outliers is 1/3. Robust statistics are also preferable for small populations.

Outliers

All data were used for the robust statistics after a check for obvious blunders. Outliers in the statistical sense are typically not detected when using robust statistical methods because the robust A+S algorithms were found to work better than the classical approach (which is outlier detection plus arithmetic mean and classical s.d. formula). Outlier shown in the table are only based on z-scores and marked with E in the graph.

Based on ISO 5725-2 there was also a Cochran outlier test performed to check the repeatability of the single laboratories. Test statistics from laboratories which are greater than 1% critical value were marked with 'C' in the column remark. This is for information only.

Number of measurements

All participants were requested to perform two measurements. This is necessary to perform the repeatability standard deviation for the laboratories. Nevertheless a few participants who performed only one measurement were taken into account and were not excluded. Robust statistics can handle different number of measurements per participant.

Publication of the results

All participants will be informed about the results of the PT with this report. Which results were delivered by which laboratory will be kept confidential. All laboratories are encoded where the code is only known by the organizer and the individual laboratory. The final report will be published on the FLUXANA website. A preliminary report was sent out for verification by the participants.

Further information

In the following evaluation report all accepted laboratory data are listed. Also all used methods are specified. Laboratories which are working under DIN EN ISO/IEC 17025 accreditation are highlighted. Under Remark additional information is given.

The concentration values were not corrected for any sulfide contents.

Participants

| | |
|---|------------------------|
| Fushe Kruje Cement Factory | Albania |
| Montanuniversität Leoben | Austria |
| VBE | Austria |
| Fabrika Cementa Lukavac | Bosnia and Herzegovina |
| Saskatchewan Research Council | Canada |
| Saint-Gobain Research (Shanghai) Co.,Ltd. | China |
| Vallourec | France |
| Société des Ciments d'Abidjan - SCA | France |
| Holcim (Deutschland) AG | Germany |
| Dyckerhoff GmbH | Germany |
| Dorfner Anzaplan | Germany |
| NUTECH GmbH | Germany |
| Thyssen Krupp Steel Europe AG | Germany |
| Gebr. Pfeiffer SE | Germany |
| K+S KALI GmbH | Germany |
| AREVA GmbH, c/o Geis Industrie-Service GmbH | Germany |
| HOPPECKE Batterien GmbH & Co. KG | Germany |
| CRB Analyse Service GmbH | Germany |
| HuK Umweltlabor GmbH | Germany |
| Rigaku Europe SE | Germany |
| Hochschule Rhein-Waal | Germany |
| Technische Hochschule Nürnberg Georg Simon Ohm | Germany |
| VDZ GmbH | Germany |
| FLUXANA GmbH & Co.KG | Germany |
| NUTECH GmbH | Germany |
| IOANNIS GIANNAKOPOULOS | Greece |
| CMS Clinker Sdn Bhd | Malaysia |
| CNESTEN | Morocco |
| SGS Nederland B.V. | Netherlands |
| Central Mining Institute | Poland |
| FERROCARBO Sp. z o.o. Zak?ad Bada? Laboratoryjnych | Poland |
| Institute of Heavy Organic Synthesis "Blachownia" | Poland |
| Górazdze Cement S.A. | Poland |
| Instytut Materialów Ceramicznych i Budowlanych | Poland |
| Holcim (Srbjia) d.o.o. | Serbia |
| PPC Cement Group Lab Services | South Africa |
| Lafarge Quality Department Southern Africa | South Africa |
| INSTITUTO NACIONAL DEL CARBÓN (INCAR-CSIC) | Spain |
| FUNDACION ITMA | Spain |
| SSAB Special Steels | Sweden |
| Thermo Fisher Scientific (Schweiz) | Switzerland |
| SGS Institut Fresenius GmbH | Switzerland |
| Adoçim Tokat Cement Plant | Turley |
| Eriez Manufacturing | USA |
| USCO SURVEY DESIGN AND CONSTRUCTION JOINT STOCK COMPANY | Vietnam |

Statistical Evaluation

Calculation of Mean m

The mean m for all laboratories was calculated using the Hampel estimator (ISO/TS 20612:2007 9.2.3) based on the laboratory means μ .

Calculation of reproducibility standard deviation s_R

The reproducibility standard deviation s_R was calculated using the Q-method (ISO/TS 20612:2007 9.2.3).

Calculation of repeatability standard deviation s_r

The repeatability standard deviation s_r was also calculated using the Q-method.

Uncertainty of Mean U

The uncertainty of mean U for k=2 (95% confidence level) was calculated from the reproducibility standard deviation s_R and the laboratories p with valid data according DIN ISO 13528:2009-01 and Nordtest TR 537 ed. 3.1:

$$(1) \quad U = 2 * 1.25 * \frac{s_R}{\sqrt{p}}$$

Laboratory performance

Laboratory proficiency assessment was based on z-scores. From all laboratory means μ the **z-score** z was calculated:

$$(2) \quad z = \frac{|m - \mu|}{s_R}$$

| | |
|-------|---|
| m | Mean value of all laboratories (assigned value) |
| μ | Mean value of individual laboratory |
| s_R | Reproducibility standard deviation |

Assessment on z-scores:

| | |
|-----------------|---|
| $z \leq 2.0$ | indicates ‚satisfactory‘ performance = generates no signal |
| $2.0 < z < 3.0$ | indicates ‚questionable‘ performance = generates a warning signal |
| $z \geq 3.0$ | indicates ‚unsatisfactory‘ performance = generates an action signal |

All laboratory means μ with $z \geq 2$ were marked with an ‘E’. z-scores with $3 \geq z \geq 2$ were highlighted with a yellow color, z-scores with $z \geq 3$ were highlighted with a red color.

Cochran's outlier test (ISO 5725-2:2002-12)

$$(3) \quad C = \frac{s_{max}^2}{\sum_{i=1}^p s_i^2}$$

| | |
|-----------|--|
| C | Cochran's test statistic |
| s_{max} | highest repeatability standard deviation |
| s_i | repeatability standard deviation of laboratory i |
| P | number of laboratories |

Assessment on C:

| | |
|---------------------------------------|--|
| $C \leq 5\% \text{ cv}$ | item tested is accepted as correct |
| $5\% \text{ cv} < C < 1\% \text{ cv}$ | item tested is called a straggler |
| $C > 1\% \text{ cv}$ | item tested is called a statistical outlier and marked with an 'C' cv: critical value |

This outlier test was performed as additional information only. The robust statistics used took all values which were traceable independent on the Cochran test.

RV118

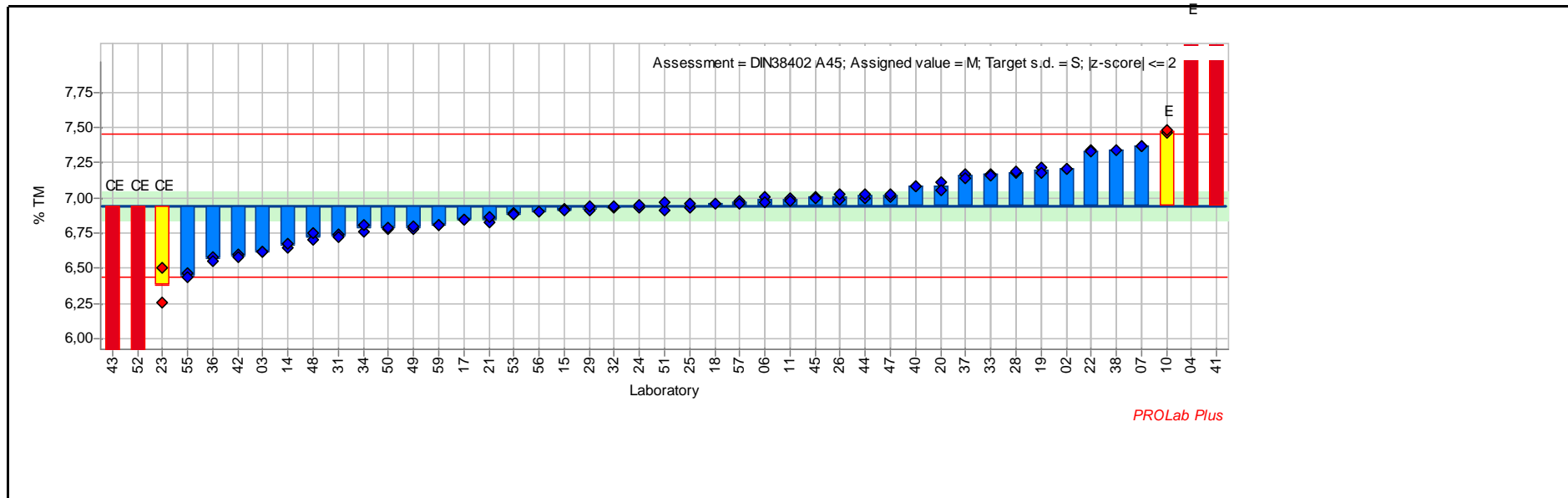
E

Summary results



| | | | |
|-----------------------------|-------------------------------------|----------------------------|---|
| Sample: | FLX-CRM 118 | Reprod. s.d. | 0,256 % TM |
| Measurand: | Al2O3 | Repeat. s.d | 0,022 % TM |
| Mean ± U(Mean): | 6,945 ± 0,100 % TM | Range of tolerance: | 6,434 - 7,457 % TM (z-score ≤ 2,0) |
| No. of laboratories: | 41 | Sample | DIN 38402 A45 |
| Assigned value | 6,945 % TM (Empirical value) | Target s.d. | 0,256 % TM (Empirical value) |

E



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-------------|
| 02 | 7,206 | 0,004 | 1,0 | 7,203 | 7,208 | ISO 17025 | XRF (fusion) | - |
| 03 | 6,614 | 0,001 | -1,3 | 6,614 | 6,613 | no accreditation | XRF (fusion) | ISO 29581-2 |

RV118

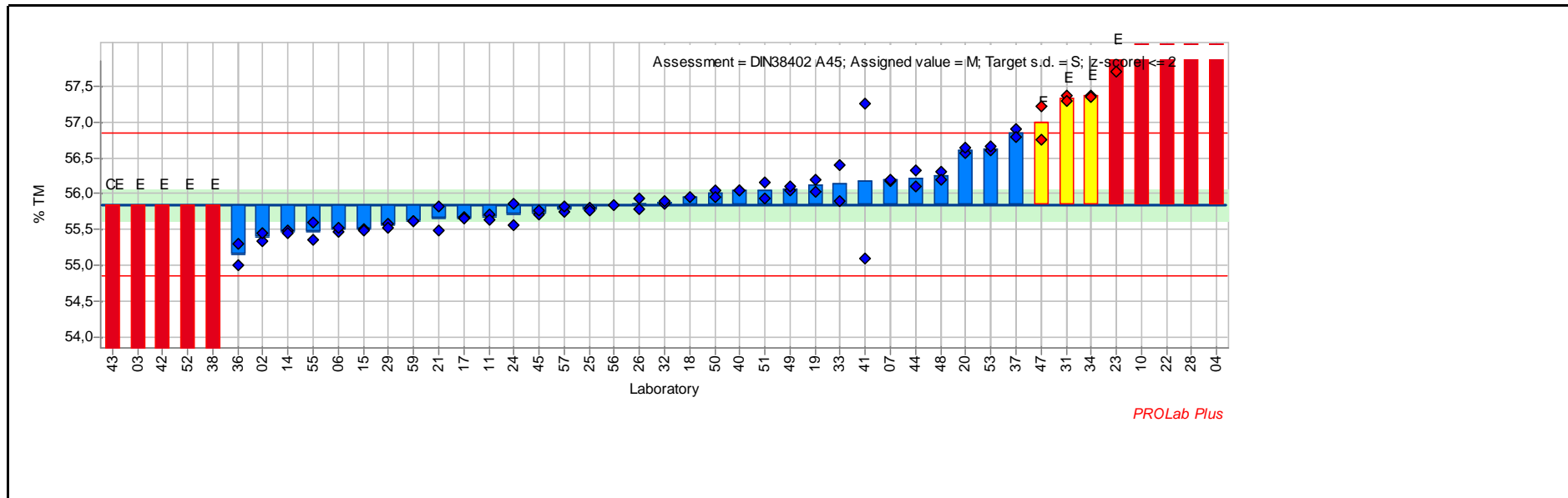
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 04 | 8,200 | | 4,9 | 8,200 | | ISO 17025 | ICP-OES | - |
| 06 | 6,990 | 0,028 | 0,2 | 7,010 | 6,970 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 7,370 | 0,000 | 1,7 | 7,370 | 7,370 | no accreditation | XRF (fusion) | - |
| 10 | 7,473 | 0,019 | 2,1 | 7,460 | 7,487 | no accreditation | XRF (fusion) | - |
| 11 | 6,990 | 0,014 | 0,2 | 7,000 | 6,980 | no accreditation | XRF (fusion) | - |
| 14 | 6,660 | 0,014 | -1,1 | 6,650 | 6,670 | no accreditation | XRF (fusion) | - |
| 15 | 6,915 | 0,007 | -0,1 | 6,920 | 6,910 | no accreditation | XRF (fusion) | - |
| 17 | 6,845 | 0,001 | -0,4 | 6,846 | 6,844 | no accreditation | XRF (fusion) | - |
| 18 | 6,960 | | 0,1 | 6,960 | | no accreditation | XRF (fusion) | - |
| 19 | 7,200 | 0,028 | 1,0 | 7,220 | 7,180 | no accreditation | XRF (fusion) | - |
| 20 | 7,083 | 0,035 | 0,5 | 7,108 | 7,058 | no accreditation | XRF (fusion) | - |
| 21 | 6,845 | 0,021 | -0,4 | 6,830 | 6,860 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 7,335 | 0,007 | 1,5 | 7,340 | 7,330 | no accreditation | XRF (fusion) | - |
| 23 | 6,377 | 0,175 | -2,2 | 6,253 | 6,500 | ISO 17025 | XRF (Pellet) info only | C |
| 24 | 6,939 | 0,018 | 0,0 | 6,927 | 6,952 | no accreditation | XRF (fusion) | - |
| 25 | 6,945 | 0,021 | 0,0 | 6,930 | 6,960 | ISO 17025 | XRF (fusion) | - |
| 26 | 7,006 | 0,027 | 0,2 | 6,987 | 7,025 | ISO 17025 | XRF (fusion) | - |
| 28 | 7,179 | 0,006 | 0,9 | 7,175 | 7,184 | ISO 17025 | XRF (fusion) | - |
| 29 | 6,925 | 0,021 | -0,1 | 6,910 | 6,940 | ISO 17025 | XRF (fusion) | - |
| 31 | 6,730 | 0,014 | -0,8 | 6,740 | 6,720 | ISO 17025 | XRF (fusion) | - |
| 32 | 6,935 | 0,007 | 0,0 | 6,930 | 6,940 | no accreditation | XRF (fusion) | - |
| 33 | 7,165 | 0,007 | 0,9 | 7,170 | 7,160 | no accreditation | XRF (Pellet) info only | - |
| 34 | 6,785 | 0,035 | -0,6 | 6,760 | 6,810 | no accreditation | XRF (fusion) | - |
| 36 | 6,565 | 0,021 | -1,5 | 6,580 | 6,550 | ISO 17025 | XRF (fusion) | - |
| 37 | 7,155 | 0,021 | 0,8 | 7,170 | 7,140 | no accreditation | XRF (fusion) | - |
| 38 | 7,340 | | 1,5 | 7,340 | | ISO 17025 | XRF (fusion) | - |
| 40 | 7,080 | 0,000 | 0,5 | 7,080 | 7,080 | ISO 17025 | XRF (fusion) | - |
| 41 | 10,320 | 0,212 | 13,2 | 10,470 | 10,170 | no accreditation | ICP-OES | C |
| 42 | 6,590 | 0,014 | -1,4 | 6,600 | 6,580 | no accreditation | XRF (fusion) | - |
| 43 | 1,275 | 0,333 | -22,2 | 1,039 | 1,510 | no accreditation | other | C, TXRF |
| 44 | 7,015 | 0,021 | 0,3 | 7,000 | 7,030 | no accreditation | XRF (fusion) | - |
| 45 | 7,005 | 0,007 | 0,2 | 7,010 | 7,000 | ISO 17025 | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 47 | 7,020 | 0,014 | 0,3 | 7,010 | 7,030 | ISO 17025 | XRF (fusion) | - |
| 48 | 6,725 | 0,035 | -0,9 | 6,700 | 6,750 | ISO 17025 | XRF (fusion) | - |
| 49 | 6,790 | 0,014 | -0,6 | 6,780 | 6,800 | no accreditation | XRF (fusion) | - |
| 50 | 6,785 | 0,007 | -0,6 | 6,780 | 6,790 | no accreditation | XRF (fusion) | - |
| 51 | 6,940 | 0,042 | 0,0 | 6,910 | 6,970 | no accreditation | XRF (fusion) | - |
| 52 | 5,146 | 0,155 | -7,0 | 5,256 | 5,037 | no accreditation | XRF (Pellet) info only | C, EDXRF |
| 53 | 6,885 | 0,007 | -0,2 | 6,890 | 6,880 | no accreditation | XRF (fusion) | - |
| 55 | 6,450 | 0,018 | -1,9 | 6,463 | 6,437 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 6,900 | | -0,2 | 6,900 | | no accreditation | XRF (fusion) | - |
| 57 | 6,971 | 0,011 | 0,1 | 6,979 | 6,963 | ISO 17025 | XRF (fusion) | - |
| 59 | 6,810 | 0,000 | -0,5 | 6,810 | 6,810 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,501 % TM
Measurand: CaO **Repeat. s.d.:** 0,084 % TM
Mean ± U(Mean): 55,848 ± 0,215 % TM **Range of tolerance:** 54,847 - 56,850 % TM (|z-score| ≤ 2,0)
No. of laboratories: 34 **Sample:** DIN 38402 A45
Assigned value: 55,848 % TM (Empirical value) **Target s.d.:** 0,501 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 55,393 | 0,071 | -0,9 | 55,343 | 55,443 | ISO 17025 | XRF (fusion) | - |
| 03 | 44,734 | 0,014 | -22,2 | 44,744 | 44,725 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 63,820 | | 15,9 | 63,820 | | ISO 17025 | ICP-OES | - |
| 06 | 55,495 | 0,049 | -0,7 | 55,460 | 55,530 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 56,185 | 0,007 | 0,7 | 56,180 | 56,190 | no accreditation | XRF (fusion) | - |

RV118

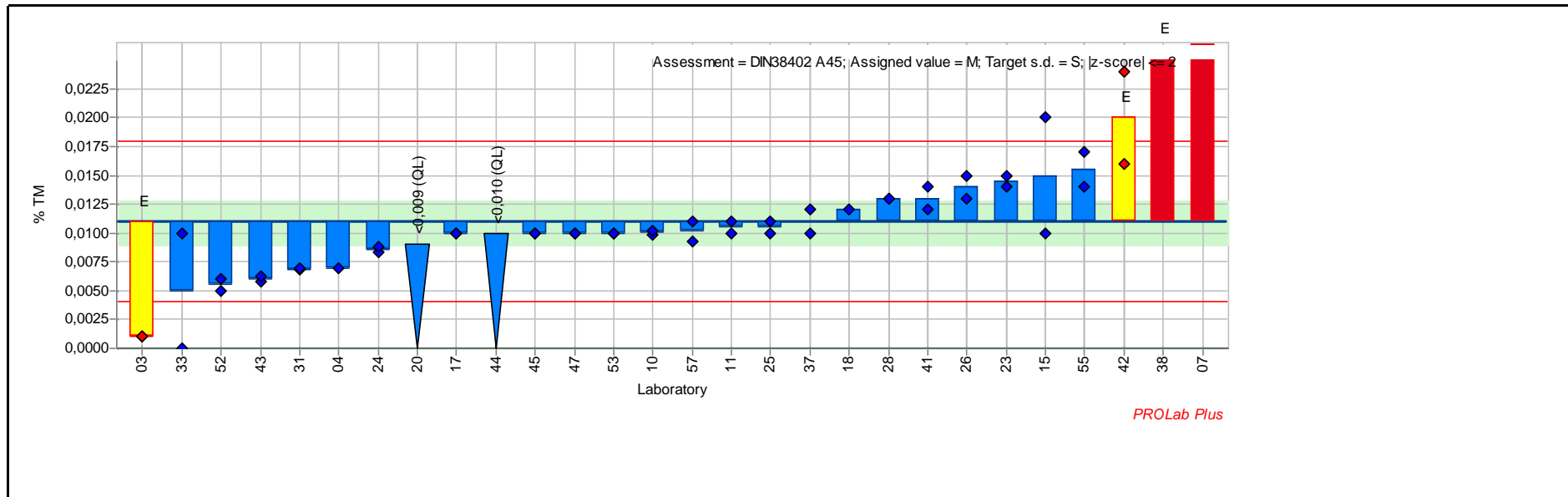
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 58,525 | 0,233 | 5,3 | 58,360 | 58,690 | no accreditation | XRF (fusion) | - |
| 11 | 55,670 | 0,057 | -0,4 | 55,710 | 55,630 | no accreditation | XRF (fusion) | - |
| 14 | 55,465 | 0,021 | -0,8 | 55,480 | 55,450 | no accreditation | XRF (fusion) | - |
| 15 | 55,495 | 0,007 | -0,7 | 55,500 | 55,490 | no accreditation | XRF (fusion) | - |
| 17 | 55,662 | 0,012 | -0,4 | 55,670 | 55,653 | no accreditation | XRF (fusion) | - |
| 18 | 55,960 | | 0,2 | 55,960 | | no accreditation | XRF (fusion) | - |
| 19 | 56,110 | 0,113 | 0,5 | 56,190 | 56,030 | no accreditation | XRF (fusion) | - |
| 20 | 56,605 | 0,049 | 1,5 | 56,570 | 56,640 | no accreditation | XRF (fusion) | - |
| 21 | 55,650 | 0,240 | -0,4 | 55,480 | 55,820 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 58,630 | 0,127 | 5,6 | 58,720 | 58,540 | no accreditation | XRF (fusion) | - |
| 23 | 57,870 | 0,226 | 4,0 | 57,710 | 58,030 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 55,705 | 0,212 | -0,3 | 55,855 | 55,555 | no accreditation | XRF (fusion) | - |
| 25 | 55,785 | 0,021 | -0,1 | 55,800 | 55,770 | ISO 17025 | XRF (fusion) | - |
| 26 | 55,854 | 0,110 | 0,0 | 55,776 | 55,932 | ISO 17025 | XRF (fusion) | - |
| 28 | 58,694 | 0,093 | 5,7 | 58,760 | 58,629 | ISO 17025 | XRF (fusion) | - |
| 29 | 55,555 | 0,035 | -0,6 | 55,580 | 55,530 | ISO 17025 | XRF (fusion) | - |
| 31 | 57,330 | 0,042 | 3,0 | 57,360 | 57,300 | ISO 17025 | XRF (fusion) | - |
| 32 | 55,875 | 0,021 | 0,1 | 55,860 | 55,890 | no accreditation | XRF (fusion) | - |
| 33 | 56,145 | 0,361 | 0,6 | 55,890 | 56,400 | no accreditation | XRF (Pellet) info only | - |
| 34 | 57,360 | 0,014 | 3,0 | 57,370 | 57,350 | no accreditation | XRF (fusion) | - |
| 36 | 55,150 | 0,212 | -1,4 | 55,300 | 55,000 | ISO 17025 | XRF (fusion) | - |
| 37 | 56,845 | 0,078 | 2,0 | 56,900 | 56,790 | no accreditation | XRF (fusion) | - |
| 38 | 53,050 | | -5,6 | 53,050 | | ISO 17025 | XRF (fusion) | - |
| 40 | 56,040 | 0,000 | 0,4 | 56,040 | 56,040 | ISO 17025 | XRF (fusion) | - |
| 41 | 56,180 | 1,527 | 0,7 | 57,260 | 55,100 | no accreditation | ICP-OES | C |
| 42 | 44,950 | 0,212 | -21,8 | 45,100 | 44,800 | no accreditation | XRF (fusion) | - |
| 43 | 24,745 | 1,333 | -62,1 | 23,802 | 25,687 | no accreditation | other | C, TXRF |
| 44 | 56,215 | 0,163 | 0,7 | 56,100 | 56,330 | no accreditation | XRF (fusion) | - |
| 45 | 55,735 | 0,049 | -0,2 | 55,700 | 55,770 | ISO 17025 | XRF (fusion) | - |
| 47 | 56,985 | 0,332 | 2,3 | 56,750 | 57,220 | ISO 17025 | XRF (fusion) | - |
| 48 | 56,250 | 0,071 | 0,8 | 56,300 | 56,200 | ISO 17025 | XRF (fusion) | - |
| 49 | 56,070 | 0,042 | 0,4 | 56,040 | 56,100 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 56,005 | 0,064 | 0,3 | 56,050 | 55,960 | no accreditation | XRF (fusion) | - |
| 51 | 56,045 | 0,148 | 0,4 | 55,940 | 56,150 | no accreditation | XRF (fusion) | - |
| 52 | 52,905 | 0,460 | -5,9 | 53,230 | 52,580 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 56,630 | 0,028 | 1,6 | 56,610 | 56,650 | no accreditation | XRF (fusion) | - |
| 55 | 55,469 | 0,173 | -0,8 | 55,592 | 55,347 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 55,830 | | 0,0 | 55,830 | | no accreditation | XRF (fusion) | - |
| 57 | 55,784 | 0,059 | -0,1 | 55,742 | 55,825 | ISO 17025 | XRF (fusion) | - |
| 59 | 55,620 | 0,000 | -0,5 | 55,620 | 55,620 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,003 % TM
Measurand: Cr2O3 **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,011 ± 0,002 % TM **Range of tolerance:** 0,004 - 0,018 % TM (|z-score| ≤ 2,0)
No. of laboratories: 21 **Sample:** DIN 38402 A45
Assigned value: 0,011 % TM (Empirical value) **Target s.d.:** 0,003 % TM (Empirical value)



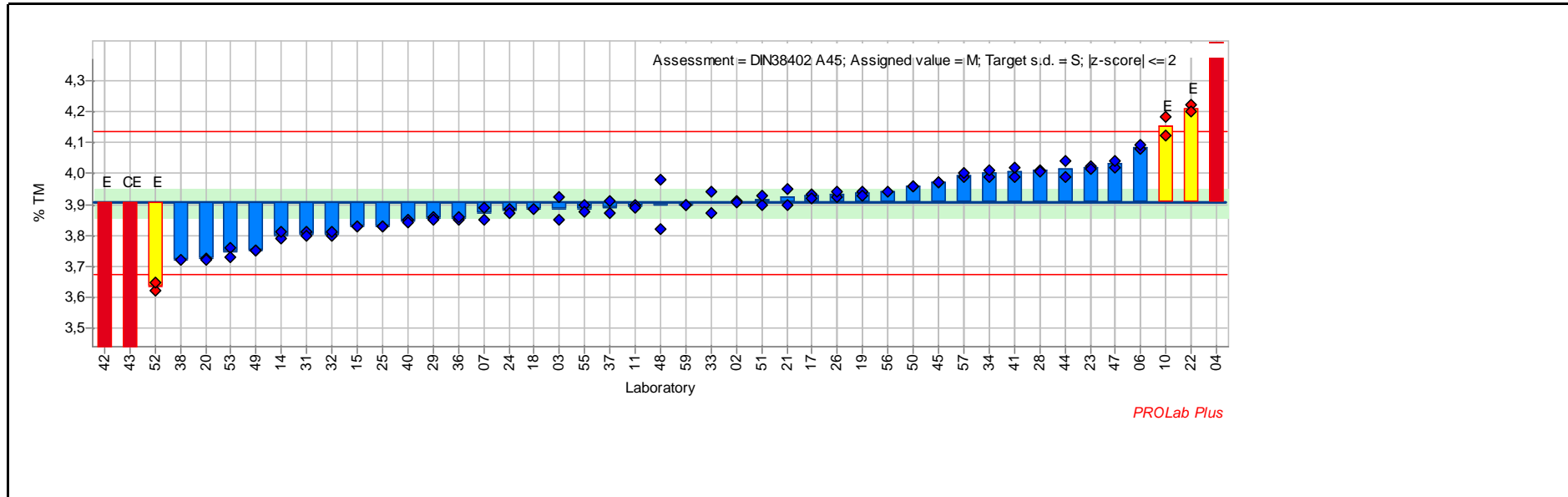
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 03 | 0,001 | 0,000 | -2,9 | 0,001 | 0,001 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,007 | | -1,1 | 0,007 | | ISO 17025 | ICP-OES | - |
| 07 | 0,081 | 0,002 | 19,9 | 0,079 | 0,082 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,010 | 0,000 | -0,3 | 0,010 | 0,010 | no accreditation | XRF (fusion) | - |
| 11 | 0,010 | 0,001 | -0,1 | 0,010 | 0,011 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------------------|
| 15 | 0,015 | 0,007 | 1,2 | 0,020 | 0,010 | no accreditation | XRF (fusion) | C |
| 17 | 0,010 | 0,000 | -0,3 | 0,010 | 0,010 | no accreditation | XRF (fusion) | - |
| 18 | 0,012 | | 0,3 | 0,012 | | no accreditation | XRF (fusion) | - |
| 20 | | | | <0,009 | <0,009 | no accreditation | XRF (fusion) | - |
| 23 | 0,014 | 0,001 | 1,0 | 0,015 | 0,014 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,009 | 0,000 | -0,7 | 0,008 | 0,009 | no accreditation | XRF (fusion) | - |
| 25 | 0,010 | 0,001 | -0,1 | 0,011 | 0,010 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,014 | 0,001 | 0,9 | 0,013 | 0,015 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,013 | 0,000 | 0,6 | 0,013 | 0,013 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,007 | 0,000 | -1,2 | 0,007 | 0,007 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 33 | 0,005 | 0,007 | -1,7 | 0,000 | 0,010 | no accreditation | XRF (Pellet) info only | - |
| 37 | 0,011 | 0,001 | 0,0 | 0,012 | 0,010 | no accreditation | XRF (fusion) | - |
| 38 | 0,026 | | 4,3 | 0,026 | | ISO 17025 | ICP-OES | - |
| 41 | 0,013 | 0,001 | 0,6 | 0,014 | 0,012 | no accreditation | ICP-OES | - |
| 42 | 0,020 | 0,006 | 2,6 | 0,024 | 0,016 | no accreditation | XRF (fusion) | C |
| 43 | 0,006 | 0,000 | -1,4 | 0,006 | 0,006 | no accreditation | other | TXRF |
| 44 | | | | <0,010 | <0,010 | no accreditation | XRF (fusion) | - |
| 45 | 0,010 | 0,000 | -0,3 | 0,010 | 0,010 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,010 | 0,000 | -0,3 | 0,010 | 0,010 | ISO 17025 | XRF (fusion) | - |
| 52 | 0,006 | 0,001 | -1,6 | 0,006 | 0,005 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,010 | 0,000 | -0,3 | 0,010 | 0,010 | no accreditation | XRF (fusion) | - |
| 55 | 0,015 | 0,002 | 1,3 | 0,014 | 0,017 | no accreditation | XRF (fusion) | Reconstitution Method |
| 57 | 0,010 | 0,001 | -0,2 | 0,011 | 0,009 | ISO 17025 | XRF (fusion) | - |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,116 % TM
Measurand: Fe2O3 **Repeat. s.d.:** 0,014 % TM
Mean ± U(Mean): 3,904 ± 0,045 % TM **Range of tolerance:** 3,673 - 4,136 % TM (|z-score| <= 2,0)
No. of laboratories: 41 **Sample:** DIN 38402 A45
Assigned value: 3,904 % TM (Empirical value) **Target s.d.:** 0,116 % TM (Empirical value) E



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 3,909 | 0,004 | 0,0 | 3,911 | 3,906 | ISO 17025 | XRF (fusion) | - |
| 03 | 3,886 | 0,052 | -0,2 | 3,922 | 3,849 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 4,600 | | 6,0 | 4,600 | | ISO 17025 | ICP-OES | - |
| 06 | 4,085 | 0,007 | 1,6 | 4,080 | 4,090 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 3,870 | 0,028 | -0,3 | 3,890 | 3,850 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 4,152 | 0,043 | 2,1 | 4,122 | 4,183 | no accreditation | XRF (fusion) | - |
| 11 | 3,895 | 0,007 | -0,1 | 3,900 | 3,890 | no accreditation | XRF (fusion) | - |
| 14 | 3,800 | 0,014 | -0,9 | 3,790 | 3,810 | no accreditation | XRF (fusion) | - |
| 15 | 3,830 | 0,000 | -0,6 | 3,830 | 3,830 | no accreditation | XRF (fusion) | - |
| 17 | 3,926 | 0,008 | 0,2 | 3,932 | 3,921 | no accreditation | XRF (fusion) | - |
| 18 | 3,884 | | -0,2 | 3,884 | | no accreditation | XRF (fusion) | - |
| 19 | 3,935 | 0,007 | 0,3 | 3,940 | 3,930 | no accreditation | XRF (fusion) | - |
| 20 | 3,724 | 0,003 | -1,6 | 3,726 | 3,722 | no accreditation | XRF (fusion) | - |
| 21 | 3,925 | 0,035 | 0,2 | 3,900 | 3,950 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 4,210 | 0,014 | 2,6 | 4,220 | 4,200 | no accreditation | XRF (fusion) | - |
| 23 | 4,018 | 0,006 | 1,0 | 4,022 | 4,013 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 3,880 | 0,008 | -0,2 | 3,886 | 3,874 | no accreditation | XRF (fusion) | - |
| 25 | 3,830 | 0,000 | -0,6 | 3,830 | 3,830 | ISO 17025 | XRF (fusion) | - |
| 26 | 3,933 | 0,010 | 0,2 | 3,926 | 3,940 | ISO 17025 | XRF (fusion) | - |
| 28 | 4,009 | 0,004 | 0,9 | 4,012 | 4,007 | ISO 17025 | XRF (fusion) | - |
| 29 | 3,855 | 0,007 | -0,4 | 3,860 | 3,850 | ISO 17025 | XRF (fusion) | - |
| 31 | 3,805 | 0,007 | -0,9 | 3,810 | 3,800 | ISO 17025 | XRF (fusion) | - |
| 32 | 3,805 | 0,007 | -0,9 | 3,800 | 3,810 | no accreditation | XRF (fusion) | - |
| 33 | 3,905 | 0,049 | 0,0 | 3,870 | 3,940 | no accreditation | XRF (Pellet) info only | - |
| 34 | 4,000 | 0,014 | 0,8 | 3,990 | 4,010 | no accreditation | XRF (fusion) | - |
| 36 | 3,855 | 0,007 | -0,4 | 3,850 | 3,860 | ISO 17025 | XRF (fusion) | - |
| 37 | 3,890 | 0,028 | -0,1 | 3,870 | 3,910 | no accreditation | XRF (fusion) | - |
| 38 | 3,720 | | -1,6 | 3,720 | | ISO 17025 | XRF (fusion) | - |
| 40 | 3,845 | 0,007 | -0,5 | 3,850 | 3,840 | ISO 17025 | XRF (fusion) | - |
| 41 | 4,005 | 0,021 | 0,9 | 3,990 | 4,020 | no accreditation | ICP-OES | - |
| 42 | 2,440 | 0,000 | -12,6 | 2,440 | 2,440 | no accreditation | XRF (fusion) | - |
| 43 | 2,763 | 0,136 | -9,9 | 2,667 | 2,859 | no accreditation | other | C, TXRF |
| 44 | 4,015 | 0,035 | 1,0 | 3,990 | 4,040 | no accreditation | XRF (fusion) | - |
| 45 | 3,970 | 0,000 | 0,6 | 3,970 | 3,970 | ISO 17025 | XRF (fusion) | - |
| 47 | 4,030 | 0,014 | 1,1 | 4,020 | 4,040 | ISO 17025 | XRF (fusion) | - |
| 48 | 3,900 | 0,113 | 0,0 | 3,820 | 3,980 | ISO 17025 | XRF (fusion) | C |
| 49 | 3,750 | 0,000 | -1,3 | 3,750 | 3,750 | no accreditation | XRF (fusion) | - |

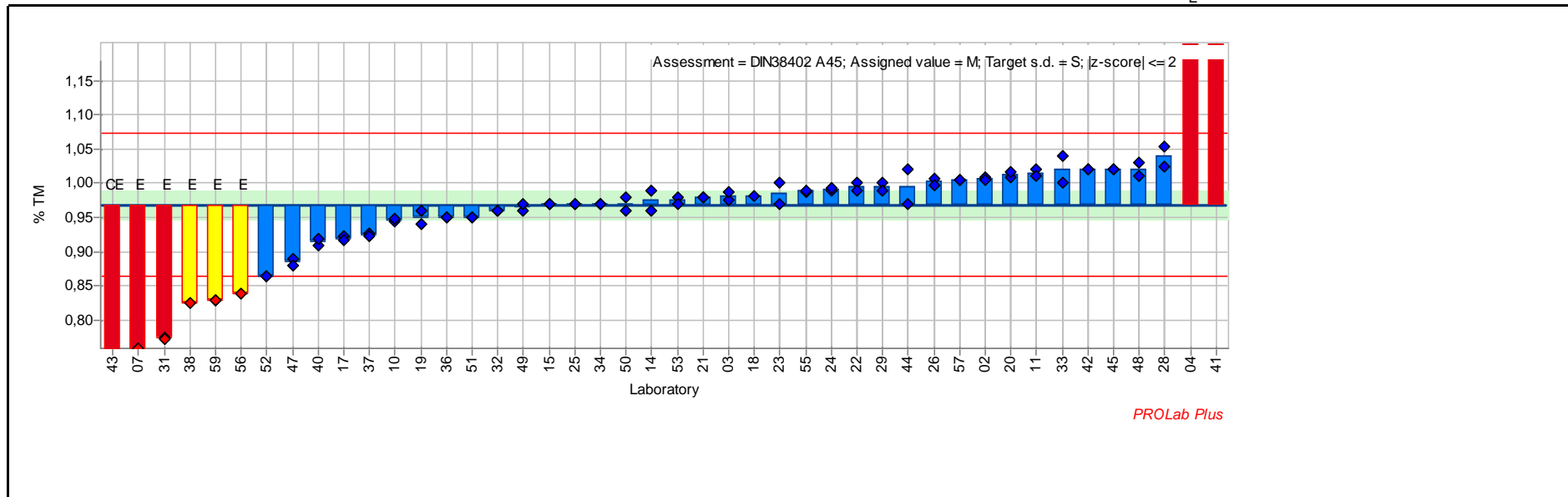
RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 3,960 | 0,000 | 0,5 | 3,960 | 3,960 | no accreditation | XRF (fusion) | - |
| 51 | 3,915 | 0,021 | 0,1 | 3,900 | 3,930 | no accreditation | XRF (fusion) | - |
| 52 | 3,635 | 0,019 | -2,3 | 3,622 | 3,649 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 3,745 | 0,021 | -1,4 | 3,760 | 3,730 | no accreditation | XRF (fusion) | - |
| 55 | 3,886 | 0,013 | -0,2 | 3,896 | 3,877 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 3,940 | | 0,3 | 3,940 | | no accreditation | XRF (fusion) | - |
| 57 | 3,994 | 0,008 | 0,8 | 3,988 | 3,999 | ISO 17025 | XRF (fusion) | - |
| 59 | 3,900 | 0,000 | 0,0 | 3,900 | 3,900 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,052 % TM
Measurand: K2O **Repeat. s.d.:** 0,008 % TM
Mean ± U(Mean): 0,969 ± 0,021 % TM **Range of tolerance:** 0,864 - 1,074 % TM (|z-score| ≤ 2,0)
No. of laboratories: 39 **Sample:** DIN 38402 A45
Assigned value: 0,969 % TM (Empirical value) **Target s.d.:** 0,052 % TM (Empirical value)

E



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-------------|
| 02 | 1,006 | 0,002 | 0,7 | 1,008 | 1,005 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,981 | 0,007 | 0,2 | 0,976 | 0,987 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 1,240 | | 5,2 | 1,240 | | ISO 17025 | ICP-OES | - |
| 07 | 0,755 | 0,007 | -4,1 | 0,760 | 0,750 | no accreditation | XRF (fusion) | - |
| 10 | 0,946 | 0,002 | -0,4 | 0,945 | 0,948 | no accreditation | XRF (fusion) | - |

RV118

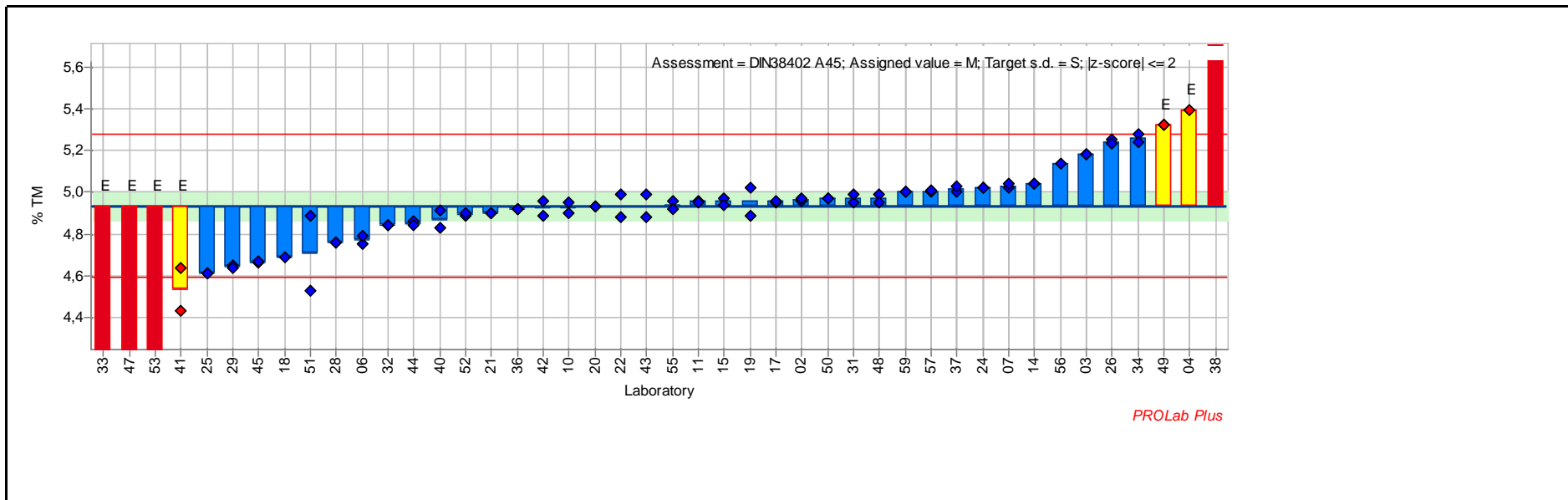
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 1,015 | 0,007 | 0,9 | 1,020 | 1,010 | no accreditation | XRF (fusion) | - |
| 14 | 0,975 | 0,021 | 0,1 | 0,990 | 0,960 | no accreditation | XRF (fusion) | - |
| 15 | 0,970 | 0,000 | 0,0 | 0,970 | 0,970 | no accreditation | XRF (fusion) | - |
| 17 | 0,920 | 0,003 | -0,9 | 0,922 | 0,918 | no accreditation | XRF (fusion) | - |
| 18 | 0,982 | | 0,3 | 0,982 | | no accreditation | XRF (fusion) | - |
| 19 | 0,950 | 0,014 | -0,4 | 0,960 | 0,940 | no accreditation | XRF (fusion) | - |
| 20 | 1,012 | 0,005 | 0,8 | 1,009 | 1,016 | no accreditation | ICP-OES | - |
| 21 | 0,980 | 0,000 | 0,2 | 0,980 | 0,980 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,995 | 0,007 | 0,5 | 1,000 | 0,990 | no accreditation | XRF (fusion) | - |
| 23 | 0,985 | 0,021 | 0,3 | 0,970 | 1,000 | ISO 17025 | XRF (Pellet) info only | - |
| 24 | 0,992 | 0,004 | 0,4 | 0,989 | 0,994 | no accreditation | XRF (fusion) | - |
| 25 | 0,970 | 0,000 | 0,0 | 0,970 | 0,970 | ISO 17025 | XRF (fusion) | - |
| 26 | 1,002 | 0,006 | 0,6 | 1,007 | 0,998 | ISO 17025 | ICP-OES | - |
| 28 | 1,039 | 0,021 | 1,3 | 1,025 | 1,054 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,995 | 0,007 | 0,5 | 1,000 | 0,990 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,774 | 0,001 | -3,7 | 0,775 | 0,773 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,960 | 0,000 | -0,2 | 0,960 | 0,960 | no accreditation | XRF (fusion) | - |
| 33 | 1,020 | 0,028 | 1,0 | 1,000 | 1,040 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,970 | 0,000 | 0,0 | 0,970 | 0,970 | no accreditation | XRF (fusion) | - |
| 36 | 0,950 | 0,000 | -0,4 | 0,950 | 0,950 | no accreditation | other | AAS |
| 37 | 0,925 | 0,004 | -0,8 | 0,927 | 0,922 | no accreditation | XRF (fusion) | - |
| 38 | 0,825 | | -2,7 | 0,825 | | ISO 17025 | ICP-OES | - |
| 40 | 0,915 | 0,007 | -1,0 | 0,910 | 0,920 | ISO 17025 | XRF (fusion) | - |
| 41 | 2,020 | 0,113 | 20,1 | 2,100 | 1,940 | no accreditation | ICP-OES | C |
| 42 | 1,020 | 0,000 | 1,0 | 1,020 | 1,020 | no accreditation | XRF (fusion) | - |
| 43 | 0,600 | 0,058 | -7,0 | 0,558 | 0,641 | no accreditation | other | C, TXRF |
| 44 | 0,995 | 0,035 | 0,5 | 0,970 | 1,020 | no accreditation | XRF (fusion) | - |
| 45 | 1,020 | 0,000 | 1,0 | 1,020 | 1,020 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,885 | 0,007 | -1,6 | 0,890 | 0,880 | ISO 17025 | XRF (fusion) | - |
| 48 | 1,020 | 0,014 | 1,0 | 1,030 | 1,010 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,965 | 0,007 | -0,1 | 0,960 | 0,970 | no accreditation | XRF (fusion) | - |
| 50 | 0,970 | 0,014 | 0,0 | 0,960 | 0,980 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 51 | 0,950 | 0,000 | -0,4 | 0,950 | 0,950 | no accreditation | XRF (fusion) | - |
| 52 | 0,864 | 0,000 | -2,0 | 0,864 | 0,864 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,975 | 0,007 | 0,1 | 0,980 | 0,970 | no accreditation | XRF (fusion) | - |
| 55 | 0,988 | 0,001 | 0,4 | 0,988 | 0,989 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,840 | | -2,5 | 0,840 | | no accreditation | XRF (fusion) | - |
| 57 | 1,004 | 0,000 | 0,7 | 1,004 | 1,005 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,830 | 0,000 | -2,6 | 0,830 | 0,830 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,172 % TM
Measurand: LOI (1h @ 950°C) observed **Repeat. s.d.:** 0,029 % TM
Mean ± U(Mean): 4,935 ± 0,065 % TM **Range of tolerance:** 4,591 - 5,279 % TM (|z-score| <= 2,0)
No. of laboratories: 44 **Sample:** DIN 38402 A45
Assigned value 4,935 % TM (Empirical value) **Target s.d.:** 0,172 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 02 | 4,965 | 0,007 | 0,2 | 4,960 | 4,970 | ISO 17025 | 1h@950°C | - |
| 03 | 5,180 | 0,000 | 1,4 | 5,180 | 5,180 | no accreditation | Wet chemistry EN196-2 | - |
| 04 | 5,390 | | 2,6 | 5,390 | | ISO 17025 | 1h@950°C | - |
| 06 | 4,770 | 0,028 | -1,0 | 4,750 | 4,790 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 5,030 | 0,014 | 0,6 | 5,020 | 5,040 | no accreditation | 1h@950°C | - |

RV118

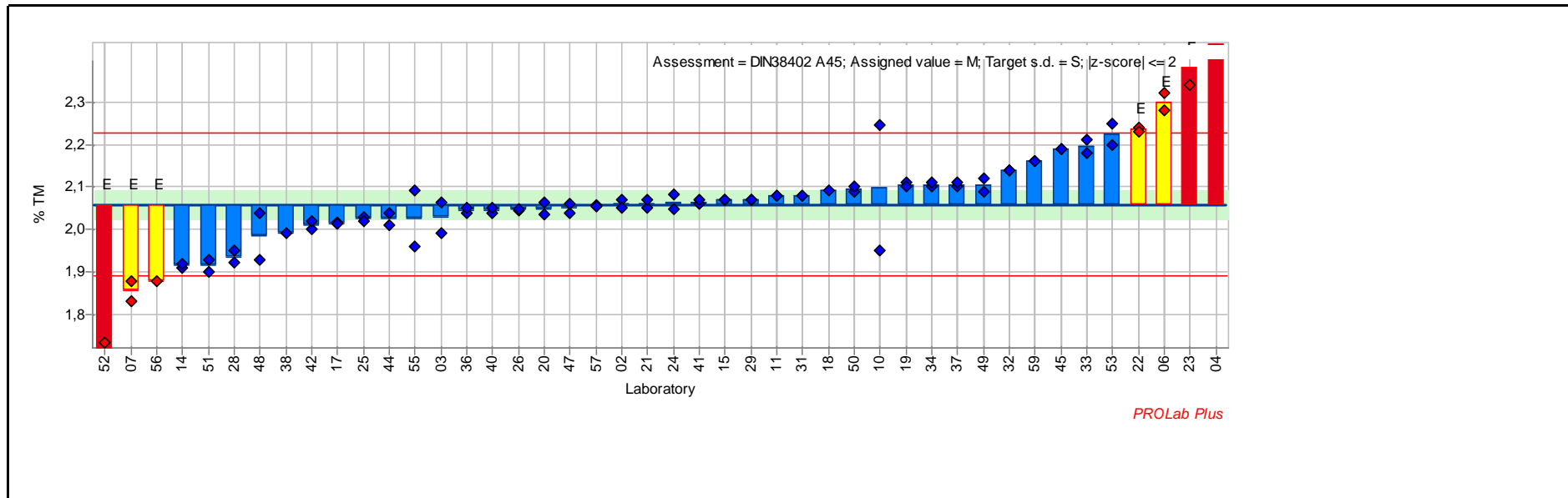
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|----------------|
| 10 | 4,925 | 0,035 | -0,1 | 4,900 | 4,950 | no accreditation | XRF (fusion) | - |
| 11 | 4,955 | 0,007 | 0,1 | 4,960 | 4,950 | no accreditation | Wet chemistry EN196-2 | - |
| 14 | 5,040 | 0,000 | 0,6 | 5,040 | 5,040 | no accreditation | 1h@950°C | corr. EN 196-2 |
| 15 | 4,955 | 0,021 | 0,1 | 4,970 | 4,940 | no accreditation | 1h@950°C | - |
| 17 | 4,955 | 0,002 | 0,1 | 4,954 | 4,957 | no accreditation | 1h@950°C | - |
| 18 | 4,690 | | -1,4 | 4,690 | | no accreditation | 1h@950°C | - |
| 19 | 4,955 | 0,092 | 0,1 | 4,890 | 5,020 | no accreditation | 1h@950°C | - |
| 20 | 4,930 | 0,000 | 0,0 | 4,930 | 4,930 | no accreditation | 1h@950°C | - |
| 21 | 4,900 | 0,000 | -0,2 | 4,900 | 4,900 | ISO 17025 | Wet chemistry EN196-2 | - |
| 22 | 4,935 | 0,078 | 0,0 | 4,990 | 4,880 | no accreditation | 1h@950°C | - |
| 24 | 5,024 | 0,000 | 0,5 | 5,024 | 5,024 | no accreditation | 1h@950°C | - |
| 25 | 4,610 | 0,000 | -1,9 | 4,610 | 4,610 | ISO 17025 | 1h@950°C | - |
| 26 | 5,240 | 0,014 | 1,8 | 5,250 | 5,230 | ISO 17025 | 1h@950°C | - |
| 28 | 4,760 | 0,000 | -1,0 | 4,760 | 4,760 | ISO 17025 | 1h@950°C | - |
| 29 | 4,645 | 0,007 | -1,7 | 4,650 | 4,640 | ISO 17025 | 1h@950°C | - |
| 31 | 4,970 | 0,028 | 0,2 | 4,950 | 4,990 | no accreditation | 1h@950°C | - |
| 32 | 4,840 | 0,000 | -0,6 | 4,840 | 4,840 | no accreditation | 1h@950°C | - |
| 33 | 3,505 | 0,658 | -8,3 | 3,970 | 3,040 | no accreditation | 1h@950°C | C |
| 34 | 5,260 | 0,028 | 1,9 | 5,280 | 5,240 | no accreditation | 1h@950°C | - |
| 36 | 4,920 | 0,000 | -0,1 | 4,920 | 4,920 | ISO 17025 | 1h@950°C | - |
| 37 | 5,015 | 0,021 | 0,5 | 5,000 | 5,030 | no accreditation | 1h@950°C | - |
| 38 | 10,520 | | 32,4 | 10,520 | | no accreditation | 1h@950°C | - |
| 40 | 4,870 | 0,057 | -0,4 | 4,830 | 4,910 | ISO 17025 | XRF (fusion) | - |
| 41 | 4,535 | 0,148 | -2,3 | 4,430 | 4,640 | no accreditation | 1h@950°C | C |
| 42 | 4,925 | 0,049 | -0,1 | 4,890 | 4,960 | no accreditation | 1h@950°C | - |
| 43 | 4,935 | 0,078 | 0,0 | 4,990 | 4,880 | no accreditation | 1h@950°C | - |
| 44 | 4,850 | 0,014 | -0,5 | 4,860 | 4,840 | no accreditation | 1h@950°C | - |
| 45 | 4,665 | 0,007 | -1,6 | 4,660 | 4,670 | ISO 17025 | 1h@950°C | - |
| 47 | 3,920 | 0,028 | -5,9 | 3,900 | 3,940 | no accreditation | 1h@950°C | - |
| 48 | 4,970 | 0,028 | 0,2 | 4,990 | 4,950 | ISO 17025 | 1h@950°C | - |
| 49 | 5,320 | 0,000 | 2,2 | 5,320 | 5,320 | no accreditation | combustion | - |
| 50 | 4,970 | 0,000 | 0,2 | 4,970 | 4,970 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-----------------------|
| 51 | 4,710 | 0,255 | -1,3 | 4,530 | 4,890 | ISO 17025 | XRF (fusion) | C |
| 52 | 4,895 | 0,007 | -0,2 | 4,890 | 4,900 | no accreditation | 1h@950°C | - |
| 53 | 4,020 | 0,028 | -5,3 | 4,040 | 4,000 | no accreditation | 1h@950°C | - |
| 55 | 4,937 | 0,026 | 0,0 | 4,955 | 4,918 | no accreditation | 1h@950°C | Reconstitution Method |
| 56 | 5,140 | | 1,2 | 5,140 | | no accreditation | 1h@950°C | - |
| 57 | 5,005 | 0,007 | 0,4 | 5,000 | 5,010 | ISO 17025 | 1h@950°C | - |
| 59 | 5,000 | 0,000 | 0,4 | 5,000 | 5,000 | no accreditation | 1h@950°C | - |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,084 % TM
Measurand: MgO **Repeat. s.d.:** 0,017 % TM
Mean ± U(Mean): 2,059 ± 0,033 % TM **Range of tolerance:** 1,890 - 2,228 % TM (|z-score| <= 2,0)
No. of laboratories: 41 **Sample:** DIN 38402 A45 E
Assigned value: 2,059 % TM (Empirical value) **Target s.d.:** 0,084 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 2,060 | 0,014 | 0,0 | 2,070 | 2,050 | ISO 17025 | XRF (fusion) | - |
| 03 | 2,028 | 0,050 | -0,4 | 1,993 | 2,063 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 2,590 | | 6,3 | 2,590 | | ISO 17025 | ICP-OES | - |
| 06 | 2,300 | 0,028 | 2,9 | 2,320 | 2,280 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 1,855 | 0,035 | -2,4 | 1,830 | 1,880 | no accreditation | XRF (fusion) | - |

RV118

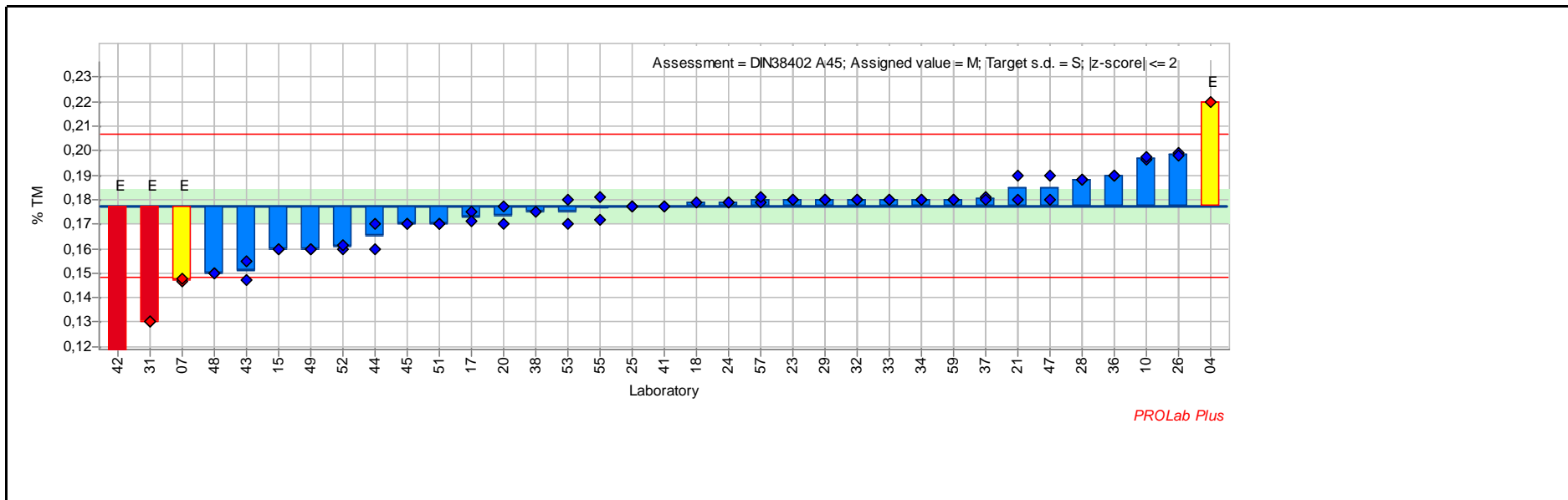
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 2,098 | 0,209 | 0,5 | 2,245 | 1,950 | no accreditation | XRF (fusion) | C |
| 11 | 2,080 | 0,000 | 0,2 | 2,080 | 2,080 | no accreditation | XRF (fusion) | - |
| 14 | 1,915 | 0,007 | -1,7 | 1,910 | 1,920 | no accreditation | XRF (fusion) | - |
| 15 | 2,070 | 0,000 | 0,1 | 2,070 | 2,070 | no accreditation | XRF (fusion) | - |
| 17 | 2,015 | 0,003 | -0,5 | 2,017 | 2,013 | no accreditation | XRF (fusion) | - |
| 18 | 2,093 | | 0,4 | 2,093 | | no accreditation | XRF (fusion) | - |
| 19 | 2,105 | 0,007 | 0,5 | 2,110 | 2,100 | no accreditation | XRF (fusion) | - |
| 20 | 2,050 | 0,022 | -0,1 | 2,034 | 2,065 | no accreditation | XRF (fusion) | - |
| 21 | 2,060 | 0,014 | 0,0 | 2,050 | 2,070 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 2,235 | 0,007 | 2,1 | 2,240 | 2,230 | no accreditation | XRF (fusion) | - |
| 23 | 2,381 | 0,059 | 3,8 | 2,339 | 2,422 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 2,065 | 0,023 | 0,1 | 2,081 | 2,049 | no accreditation | XRF (fusion) | - |
| 25 | 2,025 | 0,007 | -0,4 | 2,030 | 2,020 | ISO 17025 | XRF (fusion) | - |
| 26 | 2,046 | 0,002 | -0,1 | 2,045 | 2,048 | ISO 17025 | XRF (fusion) | - |
| 28 | 1,937 | 0,019 | -1,5 | 1,950 | 1,923 | ISO 17025 | XRF (fusion) | - |
| 29 | 2,070 | 0,000 | 0,1 | 2,070 | 2,070 | ISO 17025 | XRF (fusion) | - |
| 31 | 2,080 | 0,000 | 0,2 | 2,080 | 2,080 | ISO 17025 | XRF (fusion) | - |
| 32 | 2,140 | 0,000 | 1,0 | 2,140 | 2,140 | no accreditation | XRF (fusion) | - |
| 33 | 2,195 | 0,021 | 1,6 | 2,210 | 2,180 | no accreditation | XRF (Pellet) info only | - |
| 34 | 2,105 | 0,007 | 0,5 | 2,100 | 2,110 | no accreditation | XRF (fusion) | - |
| 36 | 2,045 | 0,007 | -0,2 | 2,040 | 2,050 | ISO 17025 | XRF (fusion) | - |
| 37 | 2,105 | 0,007 | 0,5 | 2,100 | 2,110 | no accreditation | XRF (fusion) | - |
| 38 | 1,990 | | -0,8 | 1,990 | | ISO 17025 | XRF (fusion) | - |
| 40 | 2,045 | 0,007 | -0,2 | 2,040 | 2,050 | ISO 17025 | XRF (fusion) | - |
| 41 | 2,065 | 0,007 | 0,1 | 2,060 | 2,070 | no accreditation | ICP-OES | - |
| 42 | 2,010 | 0,014 | -0,6 | 2,000 | 2,020 | no accreditation | XRF (fusion) | - |
| 44 | 2,025 | 0,021 | -0,4 | 2,010 | 2,040 | no accreditation | XRF (fusion) | - |
| 45 | 2,190 | 0,000 | 1,6 | 2,190 | 2,190 | ISO 17025 | XRF (fusion) | - |
| 47 | 2,050 | 0,014 | -0,1 | 2,040 | 2,060 | ISO 17025 | XRF (fusion) | - |
| 48 | 1,985 | 0,078 | -0,9 | 2,040 | 1,930 | ISO 17025 | XRF (fusion) | C |
| 49 | 2,105 | 0,021 | 0,5 | 2,090 | 2,120 | no accreditation | XRF (fusion) | - |
| 50 | 2,095 | 0,007 | 0,4 | 2,090 | 2,100 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------------------------|
| 51 | 1,915 | 0,021 | -1,7 | 1,900 | 1,930 | no accreditation | XRF (fusion) | - |
| 52 | 1,680 | 0,078 | -4,5 | 1,735 | 1,625 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 2,225 | 0,035 | 2,0 | 2,200 | 2,250 | no accreditation | XRF (fusion) | - |
| 55 | 2,025 | 0,093 | -0,4 | 2,091 | 1,959 | no accreditation | XRF (fusion) | C - Reconstitution Method |
| 56 | 1,880 | | -2,1 | 1,880 | | no accreditation | XRF (fusion) | - |
| 57 | 2,056 | 0,004 | 0,0 | 2,059 | 2,053 | ISO 17025 | XRF (fusion) | - |
| 59 | 2,160 | 0,000 | 1,2 | 2,160 | 2,160 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 118 Reprod. s.d. 0,015 % TM
 Measurand: Mn2O3 Repeat. s.d. 0,003 % TM
 Mean ± U(Mean): 0,178 ± 0,007 % TM Range of tolerance: 0,148 - 0,207 % TM (|z-score| ≤ 2,0)
 No. of laboratories: 30 Sample DIN 38402 A45
 Assigned value 0,178 % TM (Empirical value) Target s.d. 0,015 % TM (Empirical value)



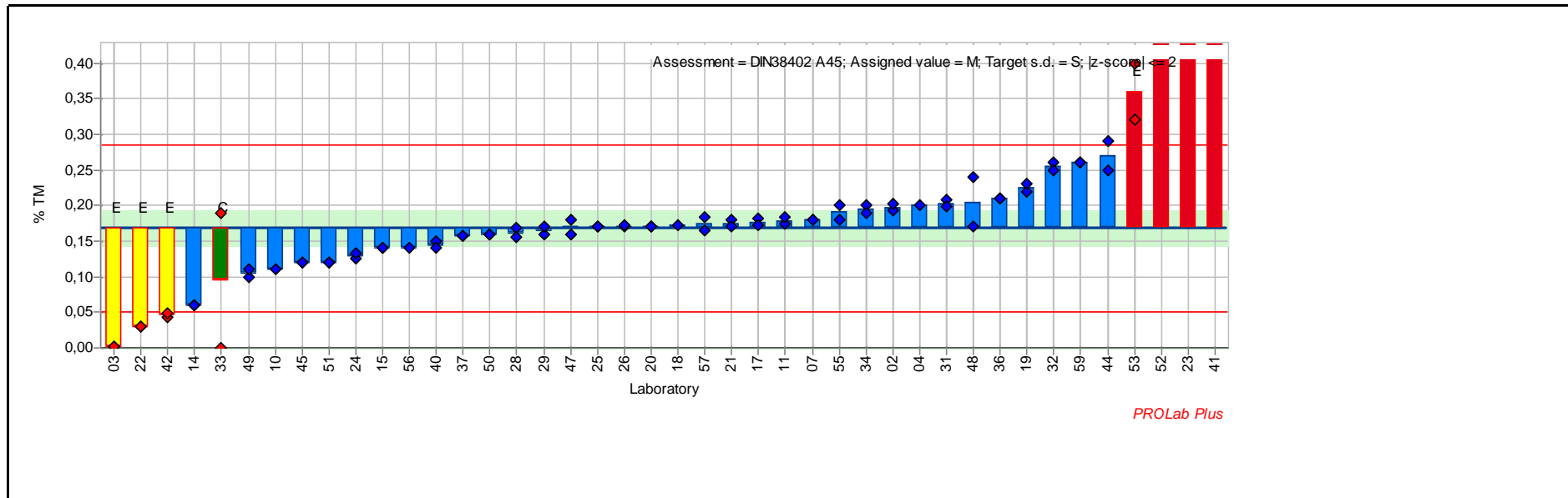
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 04 | 0,220 | | 2,9 | 0,220 | | ISO 17025 | ICP-OES | - |
| 07 | 0,147 | 0,000 | -2,1 | 0,147 | 0,147 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,197 | 0,001 | 1,3 | 0,196 | 0,198 | no accreditation | XRF (fusion) | - |
| 14 | | | | | | | | - |
| 15 | 0,160 | 0,000 | -1,2 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------------------|
| 17 | 0,173 | 0,003 | -0,3 | 0,175 | 0,171 | no accreditation | XRF (fusion) | - |
| 18 | 0,179 | | 0,1 | 0,179 | | no accreditation | XRF (fusion) | - |
| 20 | 0,173 | 0,005 | -0,3 | 0,170 | 0,177 | no accreditation | XRF (fusion) | - |
| 21 | 0,185 | 0,007 | 0,5 | 0,180 | 0,190 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,180 | 0,000 | 0,2 | 0,180 | 0,180 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,179 | 0,000 | 0,1 | 0,179 | 0,179 | no accreditation | XRF (fusion) | - |
| 25 | 0,177 | 0,000 | 0,0 | 0,177 | 0,177 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,199 | 0,001 | 1,4 | 0,199 | 0,198 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,188 | 0,000 | 0,7 | 0,188 | 0,188 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,180 | 0,000 | 0,2 | 0,180 | 0,180 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,130 | 0,000 | -3,2 | 0,130 | 0,130 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 32 | 0,180 | 0,000 | 0,2 | 0,180 | 0,180 | no accreditation | XRF (fusion) | - |
| 33 | 0,180 | 0,000 | 0,2 | 0,180 | 0,180 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,180 | 0,000 | 0,2 | 0,180 | 0,180 | no accreditation | XRF (fusion) | - |
| 36 | 0,190 | 0,000 | 0,9 | 0,190 | 0,190 | ISO 17025 | XRF (fusion) | - |
| 37 | 0,180 | 0,001 | 0,2 | 0,181 | 0,180 | no accreditation | XRF (fusion) | - |
| 38 | 0,175 | | -0,2 | 0,175 | | ISO 17025 | ICP-OES | - |
| 41 | 0,177 | 0,000 | 0,0 | 0,177 | 0,177 | no accreditation | ICP-OES | - |
| 42 | 0,090 | 0,001 | -5,9 | 0,090 | 0,091 | no accreditation | XRF (fusion) | - |
| 43 | 0,151 | 0,006 | -1,8 | 0,147 | 0,155 | no accreditation | other | TXRF |
| 44 | 0,165 | 0,007 | -0,9 | 0,160 | 0,170 | no accreditation | XRF (fusion) | calc. from MnO |
| 45 | 0,170 | 0,000 | -0,5 | 0,170 | 0,170 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,185 | 0,007 | 0,5 | 0,180 | 0,190 | no accreditation | XRF (fusion) | - |
| 48 | 0,150 | 0,000 | -1,9 | 0,150 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,160 | 0,000 | -1,2 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |
| 51 | 0,170 | 0,000 | -0,5 | 0,170 | 0,170 | no accreditation | XRF (fusion) | - |
| 52 | 0,161 | 0,001 | -1,2 | 0,160 | 0,162 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,175 | 0,007 | -0,2 | 0,180 | 0,170 | no accreditation | XRF (fusion) | - |
| 55 | 0,176 | 0,006 | -0,1 | 0,172 | 0,181 | no accreditation | XRF (fusion) | Reconstitution Method |
| 57 | 0,180 | 0,001 | 0,2 | 0,179 | 0,181 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,180 | 0,000 | 0,2 | 0,180 | 0,180 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,059 % TM
Measurand: Na2O **Repeat. s.d.:** 0,008 % TM
Mean ± U(Mean): 0,169 ± 0,025 % TM **Range of tolerance:** 0,051 - 0,286 % TM (|z-score| ≤ 2,0)
No. of laboratories: 35 **Sample:** DIN 38402 A45
Assigned value: 0,169 % TM (Empirical value) **Target s.d.:** 0,059 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,198 | 0,006 | 0,5 | 0,193 | 0,202 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,001 | 0,000 | -2,9 | 0,001 | 0,001 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,200 | | 0,5 | 0,200 | | ISO 17025 | ICP-OES | - |
| 07 | 0,181 | 0,000 | 0,2 | 0,181 | 0,180 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,110 | | -1,0 | 0,110 | <0,020 | no accreditation | XRF (fusion) | - |

RV118

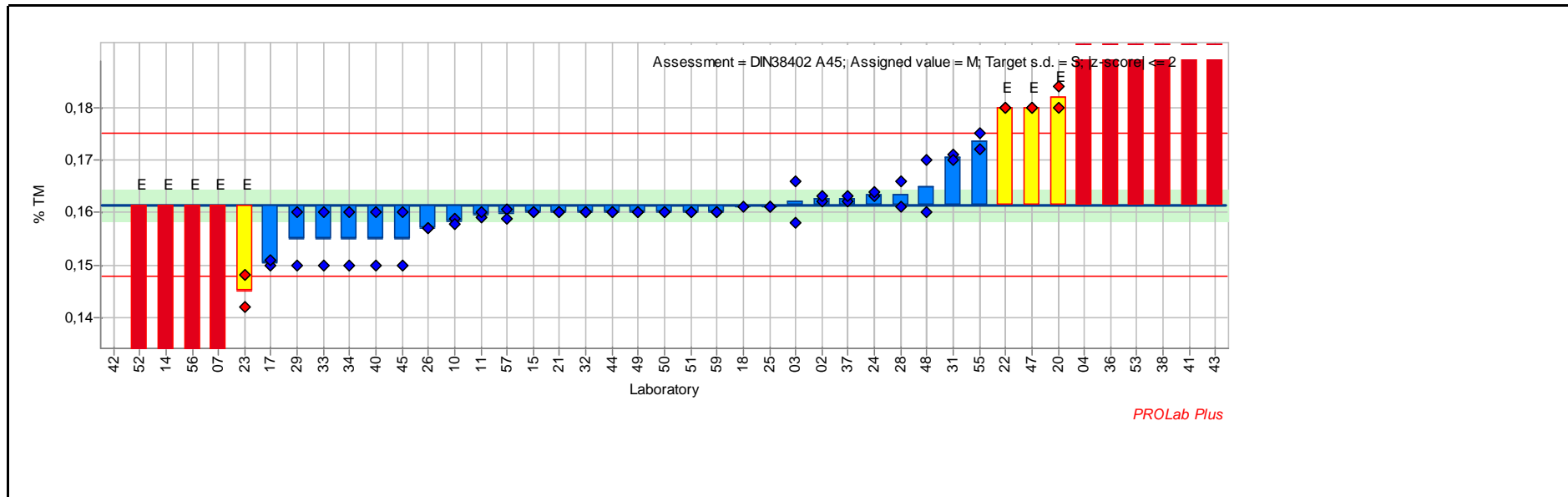
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,179 | 0,006 | 0,2 | 0,175 | 0,183 | no accreditation | XRF (fusion) | - |
| 14 | 0,060 | 0,000 | -1,9 | 0,060 | 0,060 | no accreditation | other | EDXRF fusion |
| 15 | 0,140 | 0,000 | -0,5 | 0,140 | 0,140 | no accreditation | XRF (fusion) | - |
| 17 | 0,177 | 0,007 | 0,1 | 0,182 | 0,172 | no accreditation | XRF (fusion) | - |
| 18 | 0,172 | | 0,1 | 0,172 | | no accreditation | XRF (fusion) | - |
| 19 | 0,225 | 0,007 | 1,0 | 0,220 | 0,230 | no accreditation | XRF (fusion) | - |
| 20 | 0,171 | 0,000 | 0,0 | 0,171 | 0,171 | no accreditation | ICP-OES | - |
| 21 | 0,175 | 0,007 | 0,1 | 0,180 | 0,170 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,030 | 0,000 | -2,4 | 0,030 | 0,030 | no accreditation | XRF (fusion) | - |
| 23 | 2,560 | 0,059 | 40,8 | 2,518 | 2,602 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,130 | 0,006 | -0,7 | 0,125 | 0,134 | no accreditation | XRF (fusion) | - |
| 25 | 0,170 | 0,000 | 0,0 | 0,170 | 0,170 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,171 | 0,001 | 0,0 | 0,170 | 0,172 | ISO 17025 | ICP-OES | - |
| 28 | 0,162 | 0,010 | -0,1 | 0,169 | 0,155 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,165 | 0,007 | -0,1 | 0,160 | 0,170 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,204 | 0,008 | 0,6 | 0,209 | 0,198 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,255 | 0,007 | 1,5 | 0,260 | 0,250 | no accreditation | XRF (fusion) | - |
| 33 | 0,095 | 0,134 | -1,3 | 0,190 | 0,000 | no accreditation | XRF (Pellet) info only | C |
| 34 | 0,195 | 0,007 | 0,4 | 0,200 | 0,190 | no accreditation | XRF (fusion) | - |
| 36 | 0,210 | 0,000 | 0,7 | 0,210 | 0,210 | no accreditation | other | AAS |
| 37 | 0,157 | 0,000 | -0,2 | 0,157 | 0,157 | no accreditation | XRF (fusion) | - |
| 40 | 0,145 | 0,007 | -0,4 | 0,150 | 0,140 | no accreditation | other | AAS |
| 41 | 5,645 | 0,177 | 93,4 | 5,770 | 5,520 | no accreditation | ICP-OES | C |
| 42 | 0,046 | 0,003 | -2,1 | 0,044 | 0,048 | no accreditation | XRF (fusion) | - |
| 44 | 0,270 | 0,028 | 1,7 | 0,290 | 0,250 | no accreditation | XRF (fusion) | C |
| 45 | 0,120 | 0,000 | -0,8 | 0,120 | 0,120 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,170 | 0,014 | 0,0 | 0,160 | 0,180 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,205 | 0,049 | 0,6 | 0,240 | 0,170 | ISO 17025 | XRF (fusion) | C |
| 49 | 0,105 | 0,007 | -1,1 | 0,100 | 0,110 | no accreditation | XRF (fusion) | - |
| 50 | 0,160 | 0,000 | -0,1 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |
| 51 | 0,120 | 0,000 | -0,8 | 0,120 | 0,120 | no accreditation | XRF (fusion) | - |
| 52 | 1,922 | 0,041 | 29,9 | 1,951 | 1,893 | no accreditation | XRF (Pellet) info only | EDRFA |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|---------|
| 53 | 0,360 | 0,057 | 3,3 | 0,400 | 0,320 | no accreditation | XRF (fusion) | C |
| 55 | 0,191 | 0,013 | 0,4 | 0,181 | 0,200 | no accreditation | XRF (fusion) | - |
| 56 | 0,140 | | -0,5 | 0,140 | | no accreditation | XRF (fusion) | - |
| 57 | 0,174 | 0,013 | 0,1 | 0,183 | 0,165 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,260 | 0,000 | 1,6 | 0,260 | 0,260 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,007 % TM E E
Measurand: P2O5 **Repeat. s.d.:** 0,002 % TM
Mean ± U(Mean): 0,161 ± 0,003 % TM **Range of tolerance:** 0,148 - 0,175 % TM (|z-score| ≤ 2,0)
No. of laboratories: 36 **Sample:** DIN 38402 A45
Assigned value: 0,161 % TM (Empirical value) **Target s.d.:** 0,007 % TM (Empirical value) E E



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,163 | 0,001 | 0,2 | 0,162 | 0,163 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,162 | 0,006 | 0,1 | 0,158 | 0,166 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,200 | | 5,6 | 0,200 | | ISO 17025 | ICP-OES | - |
| 07 | 0,132 | 0,001 | -4,3 | 0,131 | 0,133 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,158 | 0,001 | -0,5 | 0,159 | 0,158 | no accreditation | XRF (fusion) | - |

RV118

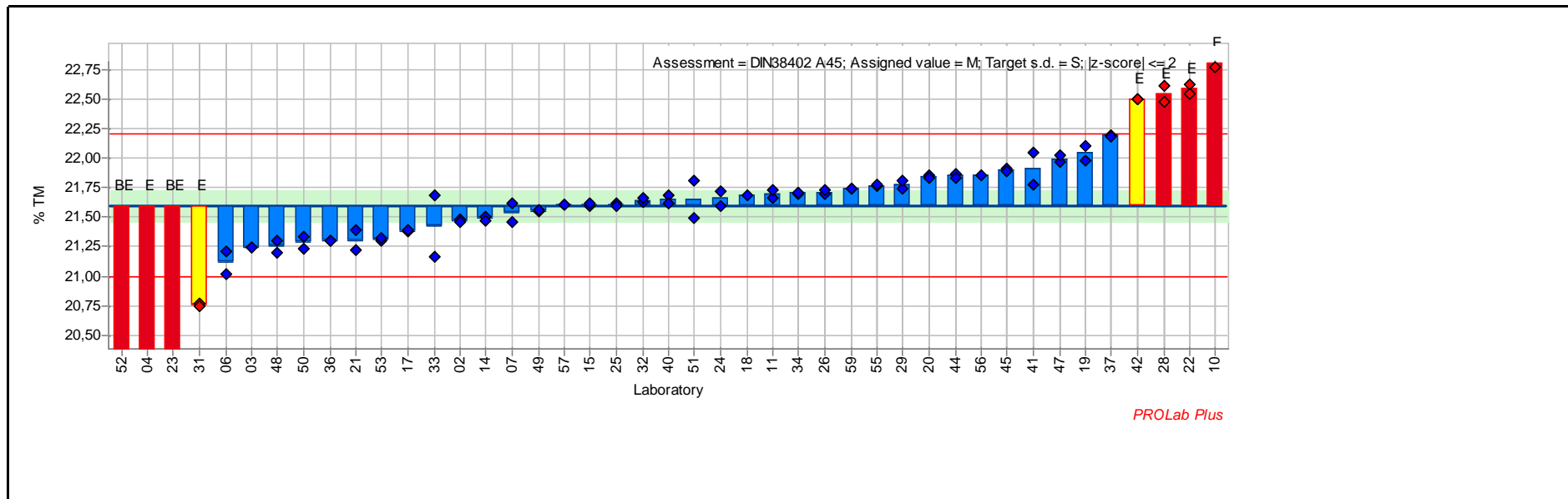
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,160 | 0,001 | -0,3 | 0,159 | 0,160 | no accreditation | XRF (fusion) | - |
| 14 | 0,125 | 0,007 | -5,3 | 0,120 | 0,130 | no accreditation | XRF (fusion) | - |
| 15 | 0,160 | 0,000 | -0,2 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |
| 17 | 0,150 | 0,001 | -1,6 | 0,150 | 0,151 | no accreditation | XRF (fusion) | - |
| 18 | 0,161 | | -0,1 | 0,161 | | no accreditation | XRF (fusion) | - |
| 20 | 0,182 | 0,003 | 3,0 | 0,180 | 0,184 | no accreditation | XRF (fusion) | - |
| 21 | 0,160 | 0,000 | -0,2 | 0,160 | 0,160 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,180 | 0,000 | 2,7 | 0,180 | 0,180 | no accreditation | XRF (fusion) | - |
| 23 | 0,145 | 0,004 | -2,4 | 0,142 | 0,148 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,164 | 0,001 | 0,3 | 0,163 | 0,164 | no accreditation | XRF (fusion) | - |
| 25 | 0,161 | 0,000 | -0,1 | 0,161 | 0,161 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,157 | 0,000 | -0,7 | 0,157 | 0,157 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,164 | 0,004 | 0,3 | 0,161 | 0,166 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,155 | 0,007 | -0,9 | 0,160 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,171 | 0,001 | 1,3 | 0,171 | 0,170 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,160 | 0,000 | -0,2 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |
| 33 | 0,155 | 0,007 | -0,9 | 0,160 | 0,150 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,155 | 0,007 | -0,9 | 0,160 | 0,150 | no accreditation | XRF (fusion) | - |
| 36 | 0,200 | 0,000 | 5,6 | 0,200 | 0,200 | no accreditation | XRF (fusion) | - |
| 37 | 0,163 | 0,001 | 0,2 | 0,162 | 0,163 | no accreditation | XRF (fusion) | - |
| 38 | 0,230 | | 10,0 | 0,230 | | ISO 17025 | ICP-OES | - |
| 40 | 0,155 | 0,007 | -0,9 | 0,160 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 41 | 0,267 | 0,002 | 15,4 | 0,268 | 0,265 | no accreditation | XRF (Pellet) info only | |
| 42 | | | | <0,005 | <0,005 | no accreditation | XRF (fusion) | - |
| 43 | 0,381 | 0,038 | 32,0 | 0,354 | 0,407 | no accreditation | other | C, TXRF |
| 44 | 0,160 | 0,000 | -0,2 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |
| 45 | 0,155 | 0,007 | -0,9 | 0,160 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,180 | 0,000 | 2,7 | 0,180 | 0,180 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,165 | 0,007 | 0,5 | 0,160 | 0,170 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,160 | 0,000 | -0,2 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |
| 50 | 0,160 | 0,000 | -0,2 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |
| 51 | 0,160 | 0,000 | -0,2 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 52 | 0,108 | 0,002 | -7,8 | 0,110 | 0,107 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,229 | 0,001 | 9,9 | 0,228 | 0,230 | no accreditation | XRF (fusion) | - |
| 55 | 0,173 | 0,002 | 1,8 | 0,175 | 0,172 | no accreditation | XRF (fusion) | - |
| 56 | 0,125 | | -5,3 | 0,125 | | no accreditation | XRF (fusion) | - |
| 57 | 0,160 | 0,001 | -0,3 | 0,161 | 0,159 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,160 | 0,000 | -0,2 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |

RV118

| | | | |
|-----------------------------|--------------------------------------|----------------------------|---|
| Sample: | FLX-CRM 118 | Reprod. s.d.: | 0,304 % TM |
| Measurand: | SiO2 | Repeat. s.d.: | 0,037 % TM |
| Mean ± U(Mean): | 21,601 ± 0,135 % TM | Range of tolerance: | 20,992 - 22,210 % TM (z-score ≤ 2,0) |
| No. of laboratories: | 32 | Sample: | DIN 38402 A45 |
| Assigned value | 21,601 % TM (Empirical value) | Target s.d.: | 0,304 % TM (Empirical value) |



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|--------------------------|
| 02 | 21,472 | 0,021 | -0,4 | 21,487 | 21,458 | ISO 17025 | XRF (fusion) | - |
| 03 | 21,239 | 0,001 | -1,2 | 21,238 | 21,240 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 18,610 | | -9,8 | 18,610 | | ISO 17025 | ICP-OES | - |
| 06 | 21,115 | 0,134 | -1,6 | 21,210 | 21,020 | no accreditation | Wet chemistry EN196-2 | precip.aided by gelatine |
| 07 | 21,540 | 0,113 | -0,2 | 21,460 | 21,620 | no accreditation | XRF (fusion) | - |

RV118

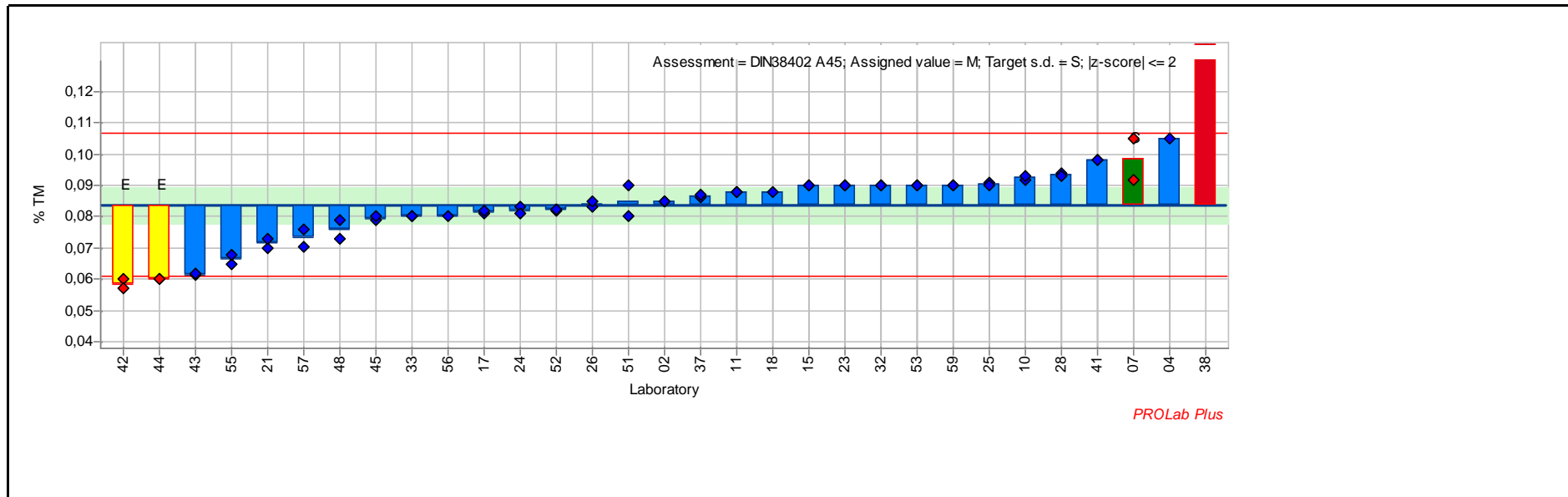
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 22,805 | 0,049 | 4,0 | 22,770 | 22,840 | no accreditation | XRF (fusion) | - |
| 11 | 21,695 | 0,049 | 0,3 | 21,660 | 21,730 | no accreditation | XRF (fusion) | - |
| 14 | 21,490 | 0,028 | -0,4 | 21,510 | 21,470 | no accreditation | XRF (fusion) | - |
| 15 | 21,610 | 0,014 | 0,0 | 21,600 | 21,620 | no accreditation | XRF (fusion) | - |
| 17 | 21,383 | 0,008 | -0,7 | 21,378 | 21,389 | no accreditation | XRF (fusion) | - |
| 18 | 21,690 | | 0,3 | 21,690 | | no accreditation | XRF (fusion) | - |
| 19 | 22,045 | 0,092 | 1,5 | 22,110 | 21,980 | no accreditation | XRF (fusion) | - |
| 20 | 21,840 | 0,014 | 0,8 | 21,850 | 21,830 | no accreditation | XRF (fusion) | - |
| 21 | 21,305 | 0,120 | -1,0 | 21,220 | 21,390 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 22,590 | 0,057 | 3,2 | 22,630 | 22,550 | no accreditation | XRF (fusion) | - |
| 23 | 19,955 | 0,361 | -5,4 | 19,700 | 20,210 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 21,662 | 0,089 | 0,2 | 21,725 | 21,599 | no accreditation | XRF (fusion) | - |
| 25 | 21,610 | 0,014 | 0,0 | 21,620 | 21,600 | ISO 17025 | XRF (fusion) | - |
| 26 | 21,712 | 0,028 | 0,4 | 21,693 | 21,732 | ISO 17025 | XRF (fusion) | - |
| 28 | 22,544 | 0,095 | 3,1 | 22,611 | 22,477 | ISO 17025 | XRF (fusion) | - |
| 29 | 21,775 | 0,049 | 0,6 | 21,740 | 21,810 | ISO 17025 | XRF (fusion) | - |
| 31 | 20,760 | 0,014 | -2,8 | 20,770 | 20,750 | ISO 17025 | XRF (fusion) | - |
| 32 | 21,645 | 0,021 | 0,1 | 21,630 | 21,660 | no accreditation | XRF (fusion) | - |
| 33 | 21,420 | 0,368 | -0,6 | 21,160 | 21,680 | no accreditation | XRF (Pellet) info only | - |
| 34 | 21,705 | 0,007 | 0,3 | 21,700 | 21,710 | no accreditation | XRF (fusion) | - |
| 36 | 21,300 | 0,000 | -1,0 | 21,300 | 21,300 | ISO 17025 | XRF (fusion) | - |
| 37 | 22,190 | 0,014 | 1,9 | 22,200 | 22,180 | no accreditation | XRF (fusion) | - |
| 40 | 21,650 | 0,042 | 0,2 | 21,680 | 21,620 | ISO 17025 | XRF (fusion) | - |
| 41 | 21,915 | 0,191 | 1,0 | 22,050 | 21,780 | no accreditation | XRF (Pellet) info only | |
| 42 | 22,500 | 0,000 | 3,0 | 22,500 | 22,500 | no accreditation | XRF (fusion) | - |
| 44 | 21,850 | 0,028 | 0,8 | 21,870 | 21,830 | no accreditation | XRF (fusion) | - |
| 45 | 21,900 | 0,014 | 1,0 | 21,910 | 21,890 | ISO 17025 | XRF (fusion) | - |
| 47 | 21,995 | 0,035 | 1,3 | 21,970 | 22,020 | ISO 17025 | XRF (fusion) | - |
| 48 | 21,250 | 0,071 | -1,2 | 21,200 | 21,300 | ISO 17025 | XRF (fusion) | - |
| 49 | 21,555 | 0,007 | -0,1 | 21,550 | 21,560 | no accreditation | XRF (fusion) | - |
| 50 | 21,285 | 0,078 | -1,0 | 21,230 | 21,340 | no accreditation | XRF (fusion) | - |
| 51 | 21,650 | 0,226 | 0,2 | 21,490 | 21,810 | no accreditation | XRF (fusion) | C |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 52 | 16,645 | 0,431 | -16,3 | 16,950 | 16,340 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 21,310 | 0,014 | -1,0 | 21,300 | 21,320 | no accreditation | XRF (fusion) | - |
| 55 | 21,770 | 0,006 | 0,6 | 21,765 | 21,774 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 21,850 | | 0,8 | 21,850 | | no accreditation | XRF (fusion) | - |
| 57 | 21,606 | 0,001 | 0,0 | 21,605 | 21,607 | ISO 17025 | XRF (fusion) | - |
| 59 | 21,740 | 0,000 | 0,5 | 21,740 | 21,740 | no accreditation | XRF (fusion) | - |

RV118

| | | | |
|-----------------------------|-------------------------------------|----------------------------|---|
| Sample: | FLX-CRM 118 | Reprod. s.d.: | 0,011 % TM |
| Measurand: | SrO | Repeat. s.d.: | 0,001 % TM |
| Mean ± U(Mean): | 0,084 ± 0,006 % TM | Range of tolerance: | 0,061 - 0,107 % TM (z-score ≤ 2,0) |
| No. of laboratories: | 26 | Sample: | DIN 38402 A45 |
| Assigned value: | 0,084 % TM (Empirical value) | Target s.d.: | 0,011 % TM (Empirical value) |



PROLab Plus

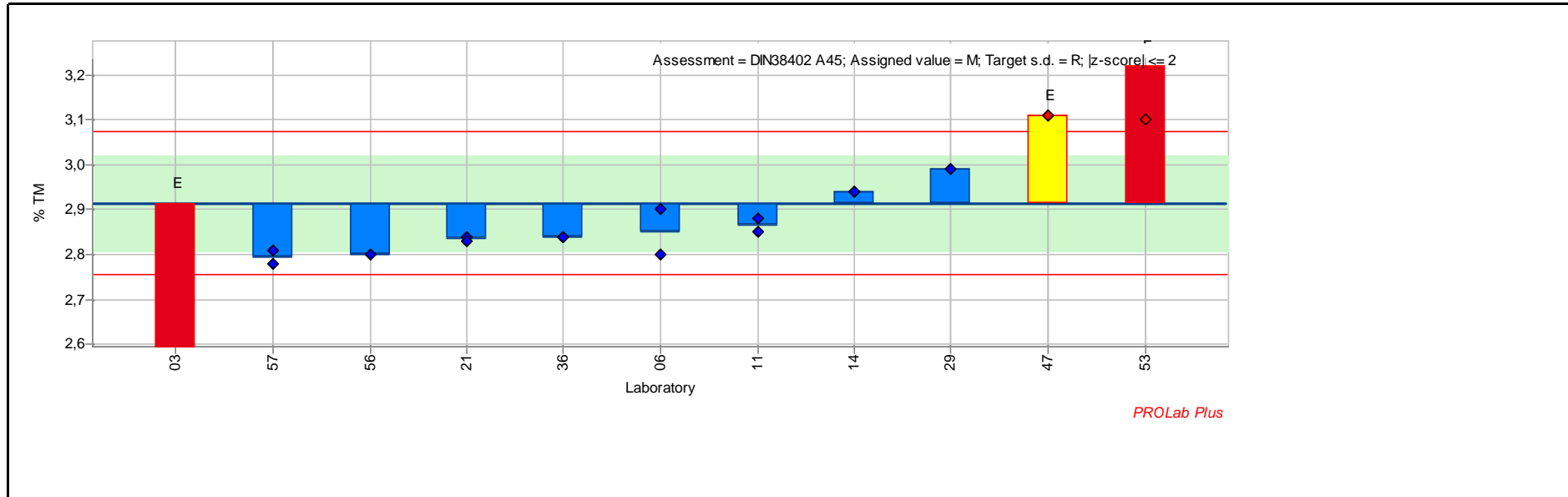
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 02 | 0,085 | 0,000 | 0,1 | 0,085 | 0,085 | ISO 17025 | XRF (fusion) | - |
| 04 | 0,105 | | 1,8 | 0,105 | 0,105 | ISO 17025 | ICP-OES | - |
| 07 | 0,098 | 0,009 | 1,3 | 0,092 | 0,105 | no accreditation | XRF (Pellet) info only | C |
| 10 | 0,092 | 0,001 | 0,7 | 0,092 | 0,093 | no accreditation | XRF (fusion) | - |
| 11 | 0,088 | 0,000 | 0,4 | 0,088 | 0,088 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 15 | 0,090 | 0,000 | 0,5 | 0,090 | 0,090 | no accreditation | XRF (fusion) | - |
| 17 | 0,082 | 0,001 | -0,2 | 0,081 | 0,082 | no accreditation | XRF (fusion) | - |
| 18 | 0,088 | | 0,4 | 0,088 | | no accreditation | XRF (fusion) | - |
| 21 | 0,072 | 0,002 | -1,1 | 0,070 | 0,073 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,090 | 0,000 | 0,5 | 0,090 | 0,090 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,082 | 0,001 | -0,1 | 0,083 | 0,081 | no accreditation | XRF (fusion) | - |
| 25 | 0,090 | 0,001 | 0,6 | 0,091 | 0,090 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,084 | 0,001 | 0,0 | 0,083 | 0,085 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,093 | 0,001 | 0,8 | 0,094 | 0,093 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,090 | 0,000 | 0,5 | 0,090 | 0,090 | no accreditation | XRF (fusion) | - |
| 33 | 0,080 | 0,000 | -0,3 | 0,080 | 0,080 | no accreditation | XRF (Pellet) info only | - |
| 37 | 0,086 | 0,001 | 0,2 | 0,086 | 0,087 | no accreditation | XRF (fusion) | - |
| 38 | 0,505 | | 36,7 | 0,505 | | ISO 17025 | ICP-OES | - |
| 41 | 0,098 | 0,000 | 1,2 | 0,098 | 0,098 | no accreditation | ICP-OES | - |
| 42 | 0,058 | 0,002 | -2,2 | 0,060 | 0,057 | no accreditation | XRF (fusion) | - |
| 43 | 0,062 | 0,000 | -1,9 | 0,061 | 0,062 | no accreditation | other | TXRF |
| 44 | 0,060 | 0,000 | -2,1 | 0,060 | 0,060 | no accreditation | XRF (fusion) | - |
| 45 | 0,080 | 0,001 | -0,4 | 0,079 | 0,080 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,076 | 0,004 | -0,7 | 0,079 | 0,073 | ISO 17025 | XRF (fusion) | - |
| 51 | 0,085 | 0,007 | 0,1 | 0,080 | 0,090 | no accreditation | XRF (fusion) | C |
| 52 | 0,082 | 0,000 | -0,1 | 0,082 | 0,082 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,090 | 0,000 | 0,5 | 0,090 | 0,090 | no accreditation | XRF (fusion) | - |
| 55 | 0,067 | 0,002 | -1,5 | 0,065 | 0,068 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,080 | | -0,3 | 0,080 | | no accreditation | XRF (fusion) | - |
| 57 | 0,073 | 0,004 | -0,9 | 0,076 | 0,070 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,090 | 0,000 | 0,5 | 0,090 | 0,090 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,139 % TM
Measurand: Sulfate expressed as SO3 **Repeat. s.d.:** 0,048 % TM
Mean ± U(Mean): 2,915 ± 0,104 % TM **Range of tolerance:** 2,755 - 3,075 % TM (|z-score| ≤ 2,0)
No. of laboratories: 11 **Sample:** DIN 38402 A45
Assigned value: 2,915 % TM (Empirical value) **Target s.d.:** 0,080 % TM (Reference value)



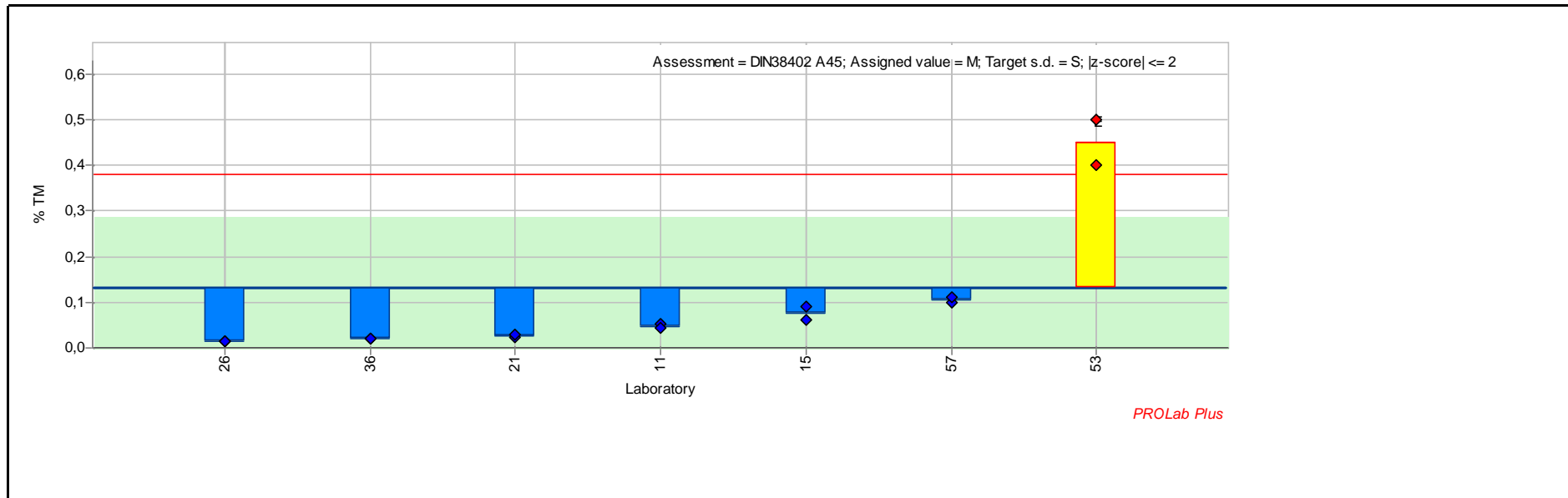
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 03 | 1,742 | 0,710 | -14,7 | 2,244 | 1,239 | no accreditation | Wet chemistry EN196-2 | C |
| 06 | 2,850 | 0,071 | -0,8 | 2,800 | 2,900 | no accreditation | Wet chemistry EN196-2 | C |
| 11 | 2,865 | 0,021 | -0,6 | 2,850 | 2,880 | no accreditation | Wet chemistry EN196-2 | - |
| 14 | 2,940 | 0,000 | 0,3 | 2,940 | 2,940 | no accreditation | Wet chemistry EN196-2 | - |
| 21 | 2,835 | 0,007 | -1,0 | 2,840 | 2,830 | ISO 17025 | Wet chemistry EN196-2 | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 29 | 2,990 | | 0,9 | 2,990 | | ISO 17025 | Wet chemistry EN196-2 | - |
| 36 | 2,840 | 0,000 | -0,9 | 2,840 | 2,840 | ISO 17025 | Wet chemistry EN196-2 | - |
| 47 | 3,110 | 0,000 | 2,4 | 3,110 | 3,110 | no accreditation | Wet chemistry EN196-2 | - |
| 53 | 3,220 | 0,170 | 3,8 | 3,340 | 3,100 | no accreditation | Wet chemistry EN196-2 | C |
| 56 | 2,800 | | -1,4 | 2,800 | | no accreditation | Wet chemistry EN196-2 | - |
| 57 | 2,795 | 0,021 | -1,5 | 2,780 | 2,810 | ISO 17025 | Wet chemistry EN196-2 | - |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,124 % TM
Measurand: Sulfide expressed as S **Repeat. s.d.:** 0,021 % TM
Mean ± U(Mean): 0,131 ± 0,155 % TM **Range of tolerance:** -0,118 - 0,379 % TM (|z-score| ≤ 2,0)
No. of laboratories: 4 **Sample:** DIN 38402 A45
Assigned value: 0,131 % TM (Empirical value) **Target s.d.:** 0,124 % TM (Empirical value)



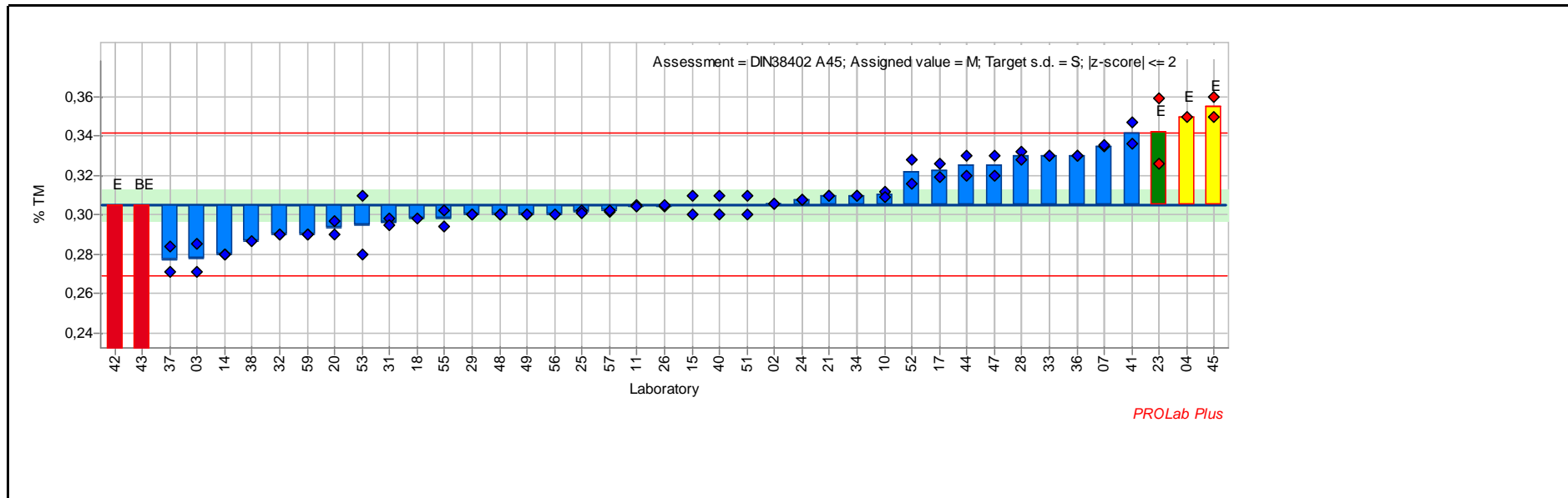
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------------|
| 11 | 0,048 | 0,006 | -0,7 | 0,052 | 0,044 | no accreditation | Standardless info only | - |
| 15 | 0,075 | 0,021 | -0,4 | 0,060 | 0,090 | no accreditation | Wet chemistry EN196-2 | - |
| 21 | 0,026 | 0,003 | -0,8 | 0,024 | 0,028 | ISO 17025 | Wet chemistry EN196-2 | - |
| 26 | 0,015 | 0,000 | -0,9 | 0,015 | 0,015 | ISO 17025 | other | DIN 38405-D27 |
| 36 | 0,020 | 0,000 | -0,9 | 0,020 | 0,020 | no accreditation | other | Calculation |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|----------------|
| 53 | 0,450 | 0,071 | 2,6 | 0,500 | 0,400 | no accreditation | Wet chemistry EN196-2 | C |
| 57 | 0,105 | 0,007 | -0,2 | 0,100 | 0,110 | no accreditation | Wet chemistry EN196-2 | SO4 difference |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,018 % TM
Measurand: TiO2 **Repeat. s.d.:** 0,006 % TM
Mean ± U(Mean): 0,305 ± 0,008 % TM **Range of tolerance:** 0,269 - 0,342 % TM (|z-score| ≤ 2,0)
No. of laboratories: 36 **Sample:** DIN 38402 A45
Assigned value: 0,305 % TM (Empirical value) **Target s.d.:** 0,018 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,306 | 0,000 | 0,0 | 0,306 | 0,306 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,278 | 0,010 | -1,5 | 0,271 | 0,285 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,350 | | 2,5 | 0,350 | | ISO 17025 | ICP-OES | - |
| 07 | 0,335 | 0,000 | 1,6 | 0,335 | 0,335 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,310 | 0,002 | 0,3 | 0,312 | 0,309 | no accreditation | XRF (fusion) | - |

RV118

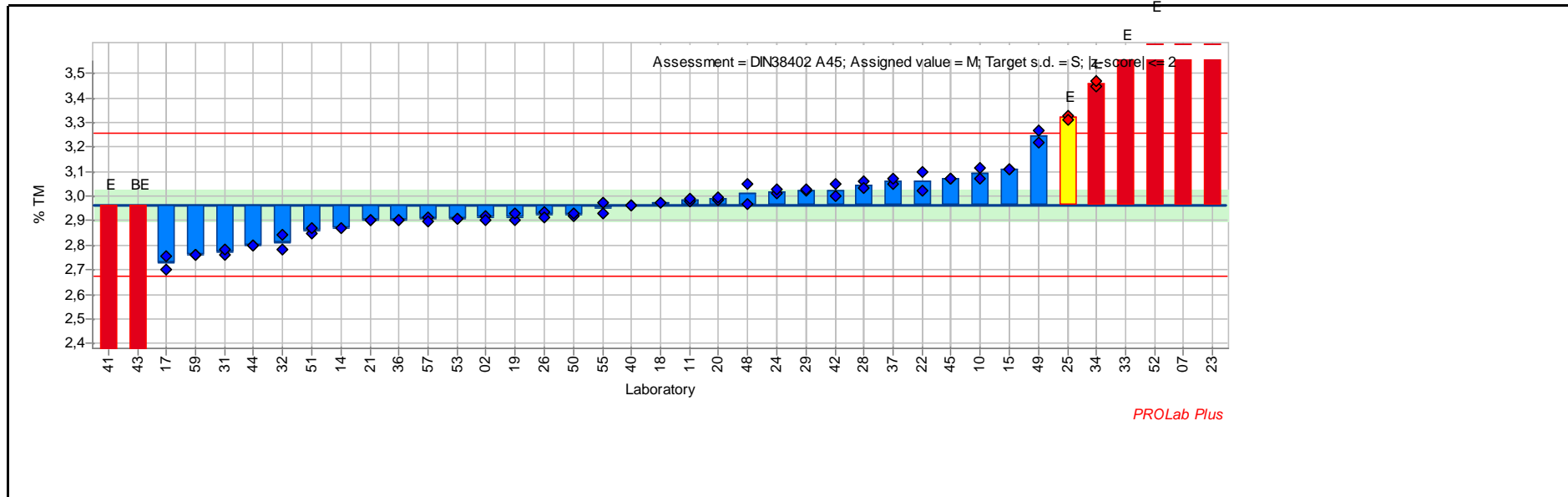
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,304 | 0,001 | 0,0 | 0,305 | 0,304 | no accreditation | XRF (fusion) | - |
| 14 | 0,280 | 0,000 | -1,4 | 0,280 | 0,280 | no accreditation | XRF (fusion) | - |
| 15 | 0,305 | 0,007 | 0,0 | 0,310 | 0,300 | no accreditation | XRF (fusion) | - |
| 17 | 0,323 | 0,005 | 0,9 | 0,319 | 0,326 | no accreditation | XRF (fusion) | - |
| 18 | 0,298 | | -0,4 | 0,298 | | no accreditation | XRF (fusion) | - |
| 20 | 0,293 | 0,005 | -0,6 | 0,297 | 0,290 | no accreditation | XRF (fusion) | - |
| 21 | 0,310 | 0,000 | 0,3 | 0,310 | 0,310 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,343 | 0,023 | 2,0 | 0,359 | 0,326 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,308 | 0,000 | 0,1 | 0,308 | 0,308 | no accreditation | XRF (fusion) | - |
| 25 | 0,301 | 0,001 | -0,2 | 0,302 | 0,301 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,304 | 0,001 | 0,0 | 0,304 | 0,305 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,330 | 0,003 | 1,4 | 0,332 | 0,328 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,300 | 0,000 | -0,3 | 0,300 | 0,300 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,296 | 0,002 | -0,5 | 0,298 | 0,295 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,290 | 0,000 | -0,8 | 0,290 | 0,290 | no accreditation | XRF (fusion) | - |
| 33 | 0,330 | 0,000 | 1,4 | 0,330 | 0,330 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,310 | 0,000 | 0,3 | 0,310 | 0,310 | no accreditation | XRF (fusion) | - |
| 36 | 0,330 | 0,000 | 1,4 | 0,330 | 0,330 | ISO 17025 | XRF (fusion) | - |
| 37 | 0,277 | 0,009 | -1,5 | 0,284 | 0,271 | no accreditation | XRF (fusion) | - |
| 38 | 0,287 | | -1,0 | 0,287 | | ISO 17025 | ICP-OES | - |
| 40 | 0,305 | 0,007 | 0,0 | 0,310 | 0,300 | ISO 17025 | XRF (fusion) | - |
| 41 | 0,342 | 0,008 | 2,0 | 0,347 | 0,336 | no accreditation | ICP-OES | - |
| 42 | 0,185 | 0,001 | -6,6 | 0,185 | 0,186 | no accreditation | XRF (fusion) | - |
| 43 | 0,201 | 0,011 | -5,7 | 0,193 | 0,208 | no accreditation | other | TXRF |
| 44 | 0,325 | 0,007 | 1,1 | 0,320 | 0,330 | no accreditation | XRF (fusion) | - |
| 45 | 0,355 | 0,007 | 2,7 | 0,350 | 0,360 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,325 | 0,007 | 1,1 | 0,320 | 0,330 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,300 | 0,000 | -0,3 | 0,300 | 0,300 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,300 | 0,000 | -0,3 | 0,300 | 0,300 | no accreditation | XRF (fusion) | - |
| 51 | 0,305 | 0,007 | 0,0 | 0,300 | 0,310 | no accreditation | XRF (fusion) | - |
| 52 | 0,322 | 0,009 | 0,9 | 0,328 | 0,316 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,295 | 0,021 | -0,6 | 0,280 | 0,310 | no accreditation | XRF (fusion) | C |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-----------------------|
| 55 | 0,298 | 0,006 | -0,4 | 0,294 | 0,302 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,300 | | -0,3 | 0,300 | | no accreditation | XRF (fusion) | - |
| 57 | 0,302 | 0,001 | -0,2 | 0,302 | 0,303 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,290 | 0,000 | -0,8 | 0,290 | 0,290 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,146 % TM
Measurand: Total S expressed as SO3 **Repeat. s.d.:** 0,020 % TM CE
Mean ± U(Mean): 2,965 ± 0,064 % TM **Range of tolerance:** 2,672 - 3,258 % TM (|z-score| ≤ 2,0)
No. of laboratories: 33 **Sample:** DIN 38402 A45
Assigned value: 2,965 % TM (Empirical value) **Target s.d.:** 0,146 % TM (Empirical value) CE



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 02 | 2,912 | 0,009 | -0,4 | 2,918 | 2,905 | ISO 17025 | XRF (fusion) | - |
| 07 | 3,770 | 0,170 | 5,5 | 3,890 | 3,650 | no accreditation | Standardless info only | C |
| 10 | 3,095 | 0,032 | 0,9 | 3,072 | 3,117 | no accreditation | XRF (fusion) | - |
| 11 | 2,985 | 0,007 | 0,1 | 2,980 | 2,990 | no accreditation | XRF (fusion) | - |
| 14 | 2,870 | | -0,6 | 2,870 | | no accreditation | XRF (fusion) | - |

RV118

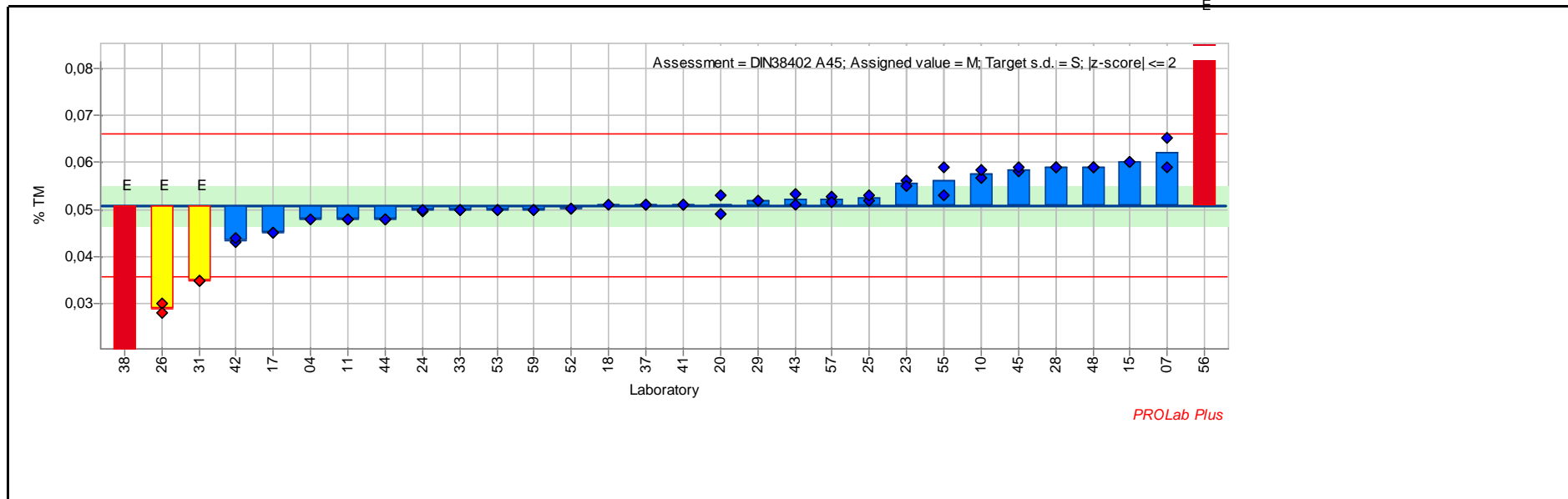
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|--------------------------|
| 15 | 3,110 | 0,000 | 1,0 | 3,110 | 3,110 | no accreditation | XRF (fusion) | - |
| 17 | 2,728 | 0,037 | -1,6 | 2,754 | 2,702 | no accreditation | XRF (fusion) | - |
| 18 | 2,973 | | 0,1 | 2,973 | | no accreditation | XRF (fusion) | - |
| 19 | 2,915 | 0,021 | -0,3 | 2,900 | 2,930 | no accreditation | XRF (fusion) | - |
| 20 | 2,990 | 0,009 | 0,2 | 2,984 | 2,997 | no accreditation | combustion | - |
| 21 | 2,900 | 0,000 | -0,4 | 2,900 | 2,900 | ISO 17025 | Wet chemistry EN196-2 | - |
| 22 | 3,060 | 0,057 | 0,6 | 3,100 | 3,020 | no accreditation | XRF (fusion) | - |
| 23 | 4,316 | 0,170 | 9,2 | 4,195 | 4,436 | ISO 17025 | XRF (Pellet) info only | C |
| 24 | 3,019 | 0,013 | 0,4 | 3,010 | 3,028 | no accreditation | XRF (fusion) | - |
| 25 | 3,320 | 0,014 | 2,4 | 3,330 | 3,310 | ISO 17025 | XRF (fusion) | - |
| 26 | 2,924 | 0,013 | -0,3 | 2,933 | 2,915 | ISO 17025 | combustion | - |
| 28 | 3,045 | 0,020 | 0,5 | 3,059 | 3,031 | ISO 17025 | XRF (fusion) | - |
| 29 | 3,025 | 0,007 | 0,4 | 3,020 | 3,030 | ISO 17025 | XRF (fusion) | - |
| 31 | 2,770 | 0,014 | -1,3 | 2,760 | 2,780 | ISO 17025 | combustion | - |
| 32 | 2,810 | 0,042 | -1,1 | 2,840 | 2,780 | no accreditation | XRF (fusion) | - |
| 33 | 3,575 | 0,021 | 4,2 | 3,590 | 3,560 | no accreditation | XRF (Pellet) info only | - |
| 34 | 3,458 | 0,018 | 3,4 | 3,446 | 3,471 | no accreditation | XRF (fusion) | - |
| 36 | 2,900 | 0,000 | -0,4 | 2,900 | 2,900 | no accreditation | other | SR3T gravimetric Bromine |
| 37 | 3,060 | 0,014 | 0,6 | 3,050 | 3,070 | no accreditation | XRF (fusion) | - |
| 40 | 2,960 | 0,000 | 0,0 | 2,960 | 2,960 | ISO 17025 | XRF (fusion) | - |
| 41 | 1,170 | 0,042 | -12,3 | 1,200 | 1,140 | no accreditation | combustion | - |
| 42 | 3,025 | 0,035 | 0,4 | 3,000 | 3,050 | no accreditation | XRF (fusion) | - |
| 43 | 1,386 | 0,041 | -10,8 | 1,357 | 1,415 | no accreditation | other | TXRF |
| 44 | 2,800 | 0,000 | -1,1 | 2,800 | 2,800 | no accreditation | XRF (fusion) | - |
| 45 | 3,070 | 0,000 | 0,7 | 3,070 | 3,070 | ISO 17025 | combustion | - |
| 48 | 3,010 | 0,057 | 0,3 | 2,970 | 3,050 | ISO 17025 | combustion | - |
| 49 | 3,245 | 0,035 | 1,9 | 3,270 | 3,220 | no accreditation | XRF (fusion) | - |
| 50 | 2,925 | 0,007 | -0,3 | 2,920 | 2,930 | no accreditation | XRF (fusion) | - |
| 51 | 2,860 | 0,014 | -0,7 | 2,850 | 2,870 | no accreditation | XRF (fusion) | - |
| 52 | 3,690 | 0,037 | 4,9 | 3,716 | 3,664 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 2,910 | 0,000 | -0,4 | 2,910 | 2,910 | no accreditation | XRF (fusion) | - |
| 55 | 2,950 | 0,030 | -0,1 | 2,972 | 2,929 | no accreditation | XRF (fusion) | Reconstitution Method |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|---------|
| 57 | 2,907 | 0,011 | -0,4 | 2,915 | 2,899 | ISO 17025 | XRF (fusion) | - |
| 59 | 2,760 | 0,000 | -1,4 | 2,760 | 2,760 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 118 **Reprod. s.d.:** 0,008 % TM
Measurand: ZnO **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,051 ± 0,004 % TM **Range of tolerance:** 0,036 - 0,066 % TM (|z-score| ≤ 2,0)
No. of laboratories: 23 **Sample:** DIN 38402 A45
Assigned value: 0,051 % TM (Empirical value) **Target s.d.:** 0,008 % TM (Empirical value)



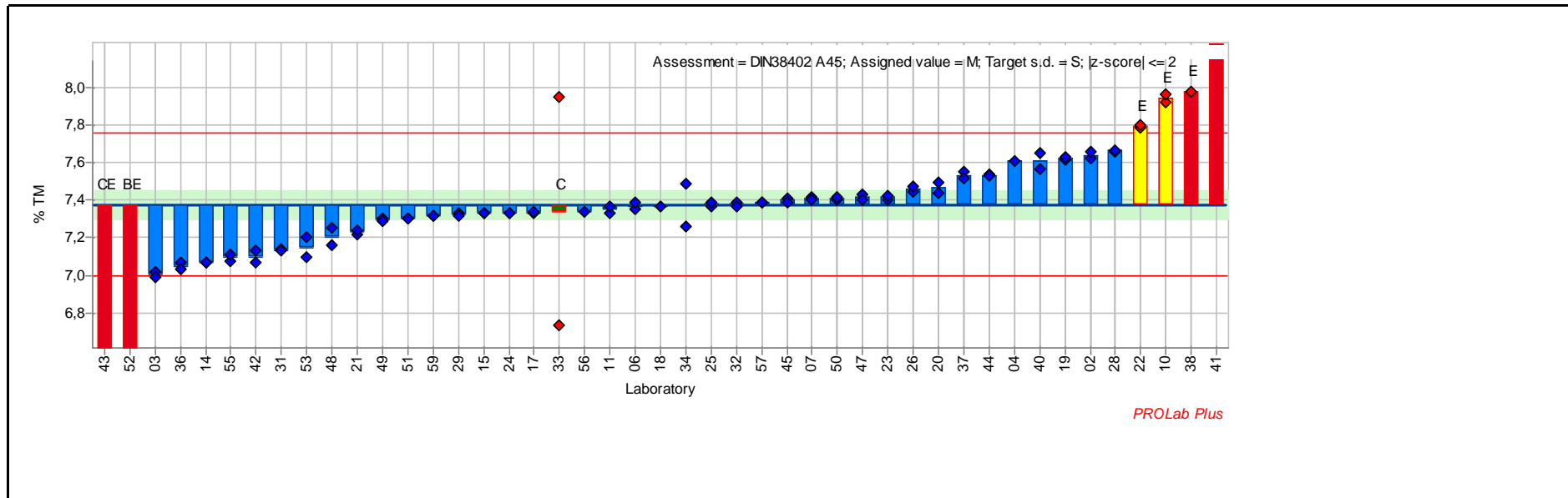
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 04 | 0,048 | | -0,4 | 0,048 | | ISO 17025 | ICP-OES | - |
| 07 | 0,062 | 0,005 | 1,5 | 0,059 | 0,065 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,058 | 0,001 | 0,9 | 0,057 | 0,058 | no accreditation | XRF (fusion) | - |
| 11 | 0,048 | 0,000 | -0,4 | 0,048 | 0,048 | no accreditation | XRF (fusion) | - |
| 15 | 0,060 | 0,000 | 1,2 | 0,060 | 0,060 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------------------------|
| 17 | 0,045 | 0,000 | -0,8 | 0,045 | 0,045 | no accreditation | XRF (fusion) | - |
| 18 | 0,051 | | 0,0 | 0,051 | | no accreditation | XRF (fusion) | - |
| 20 | 0,051 | 0,003 | 0,0 | 0,049 | 0,053 | no accreditation | XRF (Pellet) info only | - |
| 23 | 0,056 | 0,001 | 0,6 | 0,056 | 0,055 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,050 | 0,000 | -0,1 | 0,050 | 0,050 | no accreditation | XRF (fusion) | - |
| 25 | 0,052 | 0,001 | 0,2 | 0,052 | 0,053 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,029 | 0,001 | -2,9 | 0,030 | 0,028 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,059 | 0,000 | 1,1 | 0,059 | 0,059 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,052 | | 0,1 | 0,052 | | no accreditation | Standardless info only | fused bead trace |
| 31 | 0,035 | 0,000 | -2,1 | 0,035 | 0,035 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 33 | 0,050 | 0,000 | -0,1 | 0,050 | 0,050 | no accreditation | XRF (Pellet) info only | - |
| 37 | 0,051 | 0,000 | 0,0 | 0,051 | 0,051 | no accreditation | XRF (fusion) | - |
| 38 | 0,017 | | -4,4 | 0,017 | | ISO 17025 | ICP-OES | - |
| 41 | 0,051 | 0,000 | 0,0 | 0,051 | 0,051 | no accreditation | ICP-OES | - |
| 42 | 0,043 | 0,001 | -1,0 | 0,043 | 0,044 | no accreditation | XRF (fusion) | - |
| 43 | 0,052 | 0,002 | 0,2 | 0,051 | 0,053 | no accreditation | other | TXRF |
| 44 | 0,048 | 0,000 | -0,4 | 0,048 | 0,048 | no accreditation | XRF (fusion) | - |
| 45 | 0,058 | 0,001 | 1,0 | 0,058 | 0,059 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,059 | 0,000 | 1,1 | 0,059 | 0,059 | ISO 17025 | XRF (fusion) | - |
| 52 | 0,050 | 0,000 | -0,1 | 0,050 | 0,050 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,050 | 0,000 | -0,1 | 0,050 | 0,050 | no accreditation | XRF (fusion) | - |
| 55 | 0,056 | 0,004 | 0,7 | 0,059 | 0,053 | no accreditation | XRF (fusion) | C - Reconstitution Method |
| 56 | 0,089 | | 5,0 | 0,089 | | no accreditation | XRF (fusion) | - |
| 57 | 0,052 | 0,001 | 0,2 | 0,053 | 0,052 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,050 | 0,000 | -0,1 | 0,050 | 0,050 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,192 % TM
Measurand: Al2O3 **Repeat. s.d.:** 0,026 % TM
Mean ± U(Mean): 7,378 ± 0,075 % TM **Range of tolerance:** 6,995 - 7,762 % TM (|z-score| ≤ 2,0)
No. of laboratories: 41 **Sample:** DIN 38402 A45
Assigned value: 7,378 % TM (Empirical value) **Target s.d.:** 0,192 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 7,641 | 0,028 | 1,4 | 7,621 | 7,660 | ISO 17025 | XRF (fusion) | - |
| 03 | 7,003 | 0,020 | -2,0 | 7,017 | 6,989 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 7,610 | | 1,2 | 7,610 | | ISO 17025 | ICP-OES | - |
| 06 | 7,370 | 0,028 | 0,0 | 7,350 | 7,390 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 7,410 | 0,014 | 0,2 | 7,420 | 7,400 | no accreditation | XRF (fusion) | - |

RV118

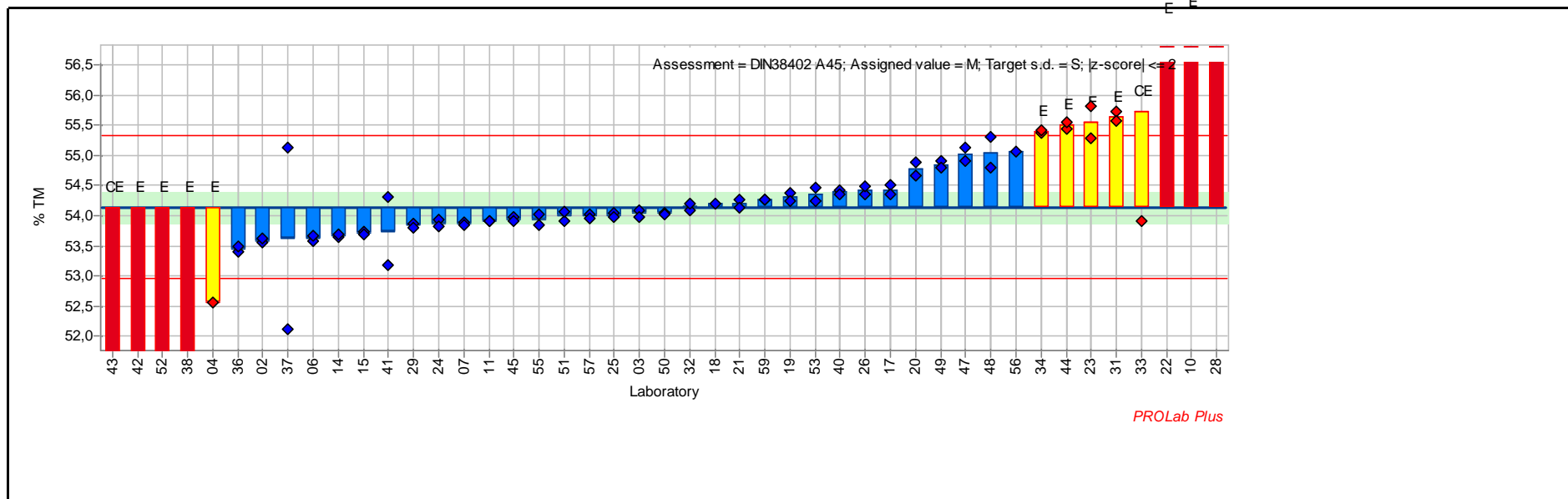
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 7,946 | 0,033 | 3,0 | 7,922 | 7,969 | no accreditation | XRF (fusion) | - |
| 11 | 7,350 | 0,028 | -0,1 | 7,330 | 7,370 | no accreditation | XRF (fusion) | - |
| 14 | 7,070 | 0,000 | -1,6 | 7,070 | 7,070 | no accreditation | XRF (fusion) | - |
| 15 | 7,330 | 0,000 | -0,3 | 7,330 | 7,330 | no accreditation | XRF (fusion) | - |
| 17 | 7,335 | 0,007 | -0,2 | 7,330 | 7,340 | no accreditation | XRF (fusion) | - |
| 18 | 7,370 | | 0,0 | 7,370 | | no accreditation | XRF (fusion) | - |
| 19 | 7,625 | 0,007 | 1,3 | 7,620 | 7,630 | no accreditation | XRF (fusion) | - |
| 20 | 7,468 | 0,042 | 0,5 | 7,438 | 7,498 | no accreditation | XRF (fusion) | - |
| 21 | 7,230 | 0,014 | -0,8 | 7,220 | 7,240 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 7,795 | 0,007 | 2,2 | 7,790 | 7,800 | no accreditation | XRF (fusion) | - |
| 23 | 7,417 | 0,016 | 0,2 | 7,406 | 7,428 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 7,333 | 0,001 | -0,2 | 7,334 | 7,332 | no accreditation | XRF (fusion) | - |
| 25 | 7,380 | 0,014 | 0,0 | 7,370 | 7,390 | ISO 17025 | XRF (fusion) | - |
| 26 | 7,461 | 0,020 | 0,4 | 7,447 | 7,475 | ISO 17025 | XRF (fusion) | - |
| 28 | 7,665 | 0,004 | 1,5 | 7,662 | 7,668 | ISO 17025 | XRF (fusion) | - |
| 29 | 7,325 | 0,007 | -0,3 | 7,330 | 7,320 | ISO 17025 | XRF (fusion) | - |
| 31 | 7,135 | 0,007 | -1,3 | 7,140 | 7,130 | ISO 17025 | XRF (fusion) | - |
| 32 | 7,380 | 0,014 | 0,0 | 7,390 | 7,370 | no accreditation | XRF (fusion) | - |
| 33 | 7,340 | 0,863 | -0,2 | 6,730 | 7,950 | no accreditation | XRF (Pellet) info only | C |
| 34 | 7,375 | 0,163 | 0,0 | 7,260 | 7,490 | no accreditation | XRF (fusion) | C |
| 36 | 7,050 | 0,028 | -1,7 | 7,070 | 7,030 | ISO 17025 | XRF (fusion) | - |
| 37 | 7,535 | 0,021 | 0,8 | 7,550 | 7,520 | no accreditation | XRF (fusion) | - |
| 38 | 7,980 | | 3,1 | 7,980 | | ISO 17025 | XRF (fusion) | - |
| 40 | 7,610 | 0,057 | 1,2 | 7,570 | 7,650 | ISO 17025 | XRF (fusion) | - |
| 41 | 10,995 | 1,280 | 18,9 | 11,900 | 10,090 | no accreditation | ICP-OES | C |
| 42 | 7,100 | 0,042 | -1,5 | 7,130 | 7,070 | no accreditation | XRF (fusion) | - |
| 43 | 1,059 | 0,483 | -33,0 | 1,400 | 0,718 | no accreditation | other | C, TXRF |
| 44 | 7,535 | 0,007 | 0,8 | 7,540 | 7,530 | no accreditation | XRF (fusion) | - |
| 45 | 7,400 | 0,014 | 0,1 | 7,410 | 7,390 | ISO 17025 | XRF (fusion) | - |
| 47 | 7,415 | 0,021 | 0,2 | 7,430 | 7,400 | ISO 17025 | XRF (fusion) | - |
| 48 | 7,205 | 0,064 | -0,9 | 7,250 | 7,160 | ISO 17025 | XRF (fusion) | - |
| 49 | 7,295 | 0,007 | -0,4 | 7,300 | 7,290 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 7,410 | 0,014 | 0,2 | 7,400 | 7,420 | no accreditation | XRF (fusion) | - |
| 51 | 7,300 | 0,000 | -0,4 | 7,300 | 7,300 | no accreditation | XRF (fusion) | - |
| 52 | 5,883 | 0,009 | -7,8 | 5,876 | 5,889 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 7,150 | 0,071 | -1,2 | 7,200 | 7,100 | no accreditation | XRF (fusion) | - |
| 55 | 7,094 | 0,026 | -1,5 | 7,075 | 7,112 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 7,340 | | -0,2 | 7,340 | | no accreditation | XRF (fusion) | - |
| 57 | 7,388 | 0,002 | 0,1 | 7,390 | 7,386 | ISO 17025 | XRF (fusion) | - |
| 59 | 7,320 | 0,000 | -0,3 | 7,320 | 7,320 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,596 % TM
Measurand: CaO **Repeat. s.d.:** 0,109 % TM
Mean ± U(Mean): 54,144 ± 0,255 % TM **Range of tolerance:** 52,952 - 55,336 % TM (|z-score| ≤ 2,0)
No. of laboratories: 34 **Sample:** DIN 38402 A45
Assigned value: 54,144 % TM (Empirical value) **Target s.d.:** 0,596 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 53,588 | 0,058 | -0,9 | 53,547 | 53,629 | ISO 17025 | XRF (fusion) | - |
| 03 | 54,038 | 0,076 | -0,2 | 54,092 | 53,985 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 52,550 | | -2,7 | 52,550 | | ISO 17025 | ICP-OES | - |
| 06 | 53,620 | 0,071 | -0,9 | 53,570 | 53,670 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 53,875 | 0,035 | -0,5 | 53,900 | 53,850 | no accreditation | XRF (fusion) | - |

RV118

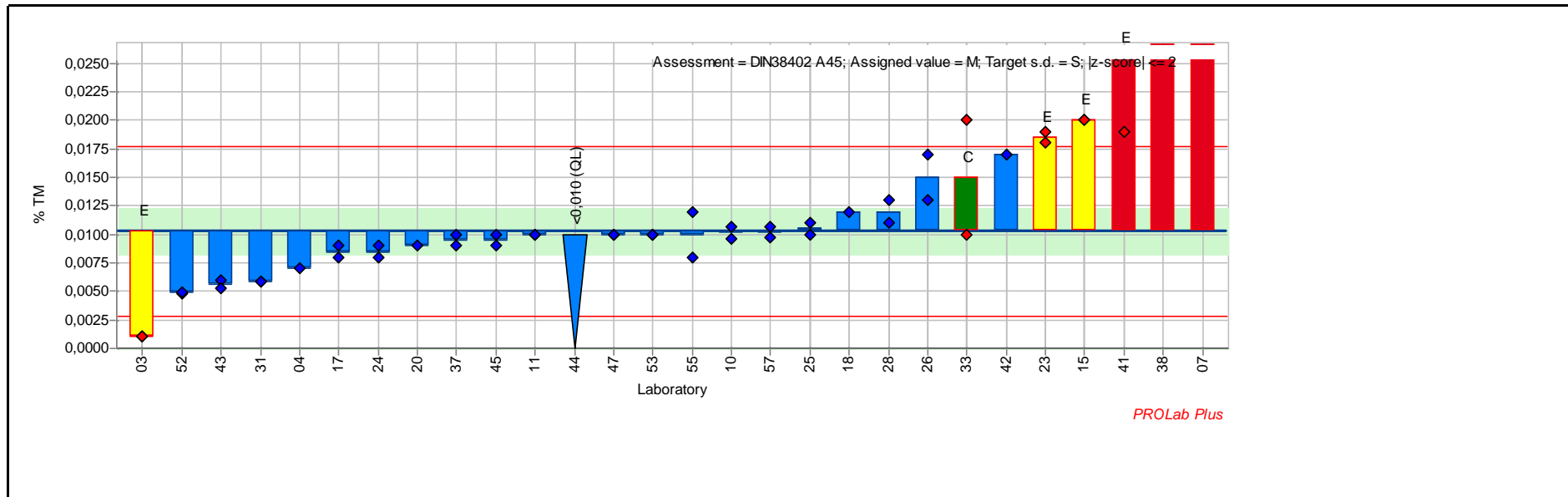
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 57,210 | 0,283 | 5,1 | 57,010 | 57,410 | no accreditation | XRF (fusion) | - |
| 11 | 53,915 | 0,007 | -0,4 | 53,910 | 53,920 | no accreditation | XRF (fusion) | - |
| 14 | 53,665 | 0,021 | -0,8 | 53,650 | 53,680 | no accreditation | XRF (fusion) | - |
| 15 | 53,705 | 0,035 | -0,7 | 53,730 | 53,680 | no accreditation | XRF (fusion) | - |
| 17 | 54,431 | 0,105 | 0,5 | 54,506 | 54,357 | no accreditation | XRF (fusion) | - |
| 18 | 54,190 | | 0,1 | 54,190 | | no accreditation | XRF (fusion) | - |
| 19 | 54,310 | 0,085 | 0,3 | 54,370 | 54,250 | no accreditation | XRF (fusion) | - |
| 20 | 54,775 | 0,148 | 1,1 | 54,880 | 54,670 | no accreditation | XRF (fusion) | - |
| 21 | 54,200 | 0,099 | 0,1 | 54,270 | 54,130 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 57,110 | 0,028 | 5,0 | 57,090 | 57,130 | no accreditation | XRF (fusion) | - |
| 23 | 55,550 | 0,368 | 2,4 | 55,810 | 55,290 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 53,868 | 0,079 | -0,5 | 53,924 | 53,812 | no accreditation | XRF (fusion) | - |
| 25 | 54,010 | 0,042 | -0,2 | 54,040 | 53,980 | ISO 17025 | XRF (fusion) | - |
| 26 | 54,424 | 0,083 | 0,5 | 54,365 | 54,483 | ISO 17025 | XRF (fusion) | - |
| 28 | 57,368 | 0,079 | 5,4 | 57,312 | 57,424 | ISO 17025 | XRF (fusion) | - |
| 29 | 53,835 | 0,049 | -0,5 | 53,870 | 53,800 | ISO 17025 | XRF (fusion) | - |
| 31 | 55,650 | 0,099 | 2,5 | 55,720 | 55,580 | ISO 17025 | XRF (fusion) | - |
| 32 | 54,145 | 0,078 | 0,0 | 54,090 | 54,200 | no accreditation | XRF (fusion) | - |
| 33 | 55,725 | 2,553 | 2,7 | 57,530 | 53,920 | no accreditation | XRF (Pellet) info only | C |
| 34 | 55,395 | 0,021 | 2,1 | 55,380 | 55,410 | no accreditation | XRF (fusion) | - |
| 36 | 53,450 | 0,071 | -1,2 | 53,400 | 53,500 | ISO 17025 | XRF (fusion) | - |
| 37 | 53,620 | 2,121 | -0,9 | 52,120 | 55,120 | no accreditation | XRF (fusion) | C |
| 38 | 51,680 | | -4,1 | 51,680 | | ISO 17025 | XRF (fusion) | - |
| 40 | 54,395 | 0,049 | 0,4 | 54,430 | 54,360 | ISO 17025 | XRF (fusion) | - |
| 41 | 53,740 | 0,806 | -0,7 | 54,310 | 53,170 | no accreditation | ICP-OES | C |
| 42 | 43,950 | 0,212 | -17,1 | 44,100 | 43,800 | no accreditation | XRF (fusion) | - |
| 43 | 18,563 | 2,484 | -59,7 | 20,320 | 16,807 | no accreditation | other | C, TXRF |
| 44 | 55,505 | 0,078 | 2,3 | 55,450 | 55,560 | no accreditation | XRF (fusion) | - |
| 45 | 53,940 | 0,042 | -0,3 | 53,970 | 53,910 | ISO 17025 | XRF (fusion) | - |
| 47 | 55,010 | 0,156 | 1,5 | 55,120 | 54,900 | ISO 17025 | XRF (fusion) | - |
| 48 | 55,050 | 0,354 | 1,5 | 54,800 | 55,300 | ISO 17025 | XRF (fusion) | - |
| 49 | 54,845 | 0,078 | 1,2 | 54,900 | 54,790 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 54,040 | 0,014 | -0,2 | 54,050 | 54,030 | no accreditation | XRF (fusion) | - |
| 51 | 53,990 | 0,099 | -0,3 | 53,920 | 54,060 | no accreditation | XRF (fusion) | - |
| 52 | 51,350 | 0,325 | -4,7 | 51,120 | 51,580 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 54,360 | 0,156 | 0,4 | 54,250 | 54,470 | no accreditation | XRF (fusion) | - |
| 55 | 53,942 | 0,129 | -0,3 | 53,851 | 54,033 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 55,070 | | 1,6 | 55,070 | | no accreditation | XRF (fusion) | - |
| 57 | 53,995 | 0,044 | -0,3 | 54,026 | 53,964 | ISO 17025 | XRF (fusion) | - |
| 59 | 54,260 | 0,000 | 0,2 | 54,260 | 54,260 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,004 % TM
Measurand: Cr2O3 **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,010 ± 0,002 % TM **Range of tolerance:** 0,003 - 0,018 % TM (|z-score| ≤ 2,0)
No. of laboratories: 22 **Sample:** DIN 38402 A45 E
Assigned value: 0,010 % TM (Empirical value) **Target s.d.:** 0,004 % TM (Empirical value)



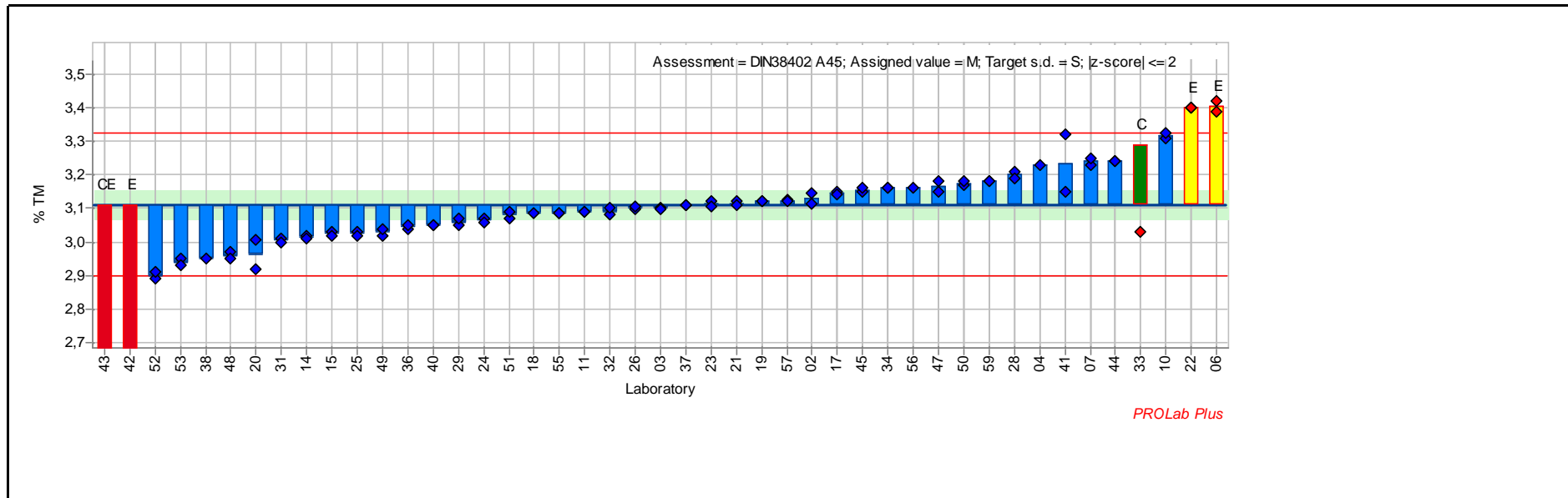
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 03 | 0,001 | 0,000 | -2,5 | 0,001 | 0,001 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,007 | | -0,9 | 0,007 | | ISO 17025 | ICP-OES | - |
| 07 | 0,084 | 0,001 | 19,8 | 0,083 | 0,085 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,010 | 0,001 | 0,0 | 0,010 | 0,011 | no accreditation | XRF (fusion) | - |
| 11 | 0,010 | 0,000 | -0,1 | 0,010 | 0,010 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------------------|
| 15 | 0,020 | 0,000 | 2,6 | 0,020 | 0,020 | no accreditation | XRF (fusion) | - |
| 17 | 0,009 | 0,001 | -0,5 | 0,009 | 0,008 | no accreditation | XRF (fusion) | - |
| 18 | 0,012 | | 0,5 | 0,012 | | no accreditation | XRF (fusion) | - |
| 20 | 0,009 | | -0,3 | 0,009 | <0,009 | no accreditation | XRF (fusion) | - |
| 23 | 0,018 | 0,001 | 2,2 | 0,018 | 0,019 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,009 | 0,001 | -0,5 | 0,008 | 0,009 | no accreditation | XRF (fusion) | - |
| 25 | 0,010 | 0,001 | 0,1 | 0,010 | 0,011 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,015 | 0,003 | 1,3 | 0,013 | 0,017 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,012 | 0,001 | 0,5 | 0,013 | 0,011 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,006 | 0,000 | -1,2 | 0,006 | 0,006 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 33 | 0,015 | 0,007 | 1,3 | 0,020 | 0,010 | no accreditation | XRF (Pellet) info only | C |
| 37 | 0,009 | 0,001 | -0,2 | 0,010 | 0,009 | no accreditation | XRF (fusion) | - |
| 38 | 0,035 | | 6,6 | 0,035 | | ISO 17025 | ICP-OES | - |
| 41 | 0,026 | 0,009 | 4,1 | 0,032 | 0,019 | no accreditation | ICP-OES | C |
| 42 | 0,017 | | 1,8 | <0,010 | 0,017 | no accreditation | XRF (fusion) | - |
| 43 | 0,006 | 0,000 | -1,2 | 0,006 | 0,005 | no accreditation | other | TXRF |
| 44 | | | | <0,010 | <0,010 | no accreditation | XRF (fusion) | - |
| 45 | 0,009 | 0,001 | -0,2 | 0,009 | 0,010 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,010 | 0,000 | -0,1 | 0,010 | 0,010 | ISO 17025 | XRF (fusion) | - |
| 52 | 0,005 | 0,000 | -1,5 | 0,005 | 0,005 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,010 | 0,000 | -0,1 | 0,010 | 0,010 | no accreditation | XRF (fusion) | - |
| 55 | 0,010 | 0,003 | -0,1 | 0,012 | 0,008 | no accreditation | XRF (fusion) | Reconstitution Method |
| 57 | 0,010 | 0,001 | 0,0 | 0,011 | 0,010 | ISO 17025 | XRF (fusion) | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,107 % TM
Measurand: Fe2O3 **Repeat. s.d.:** 0,012 % TM
Mean ± U(Mean): 3,112 ± 0,042 % TM **Range of tolerance:** 2,897 - 3,327 % TM (|z-score| ≤ 2,0)
No. of laboratories: 41 **Sample:** DIN 38402 A45
Assigned value: 3,112 % TM (Empirical value) **Target s.d.:** 0,107 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 3,130 | 0,023 | 0,2 | 3,114 | 3,146 | ISO 17025 | XRF (fusion) | - |
| 03 | 3,102 | 0,002 | -0,1 | 3,103 | 3,100 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 3,230 | | 1,1 | 3,230 | | ISO 17025 | ICP-OES | - |
| 06 | 3,405 | 0,021 | 2,7 | 3,390 | 3,420 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 3,240 | 0,014 | 1,2 | 3,230 | 3,250 | no accreditation | XRF (fusion) | - |

RV118

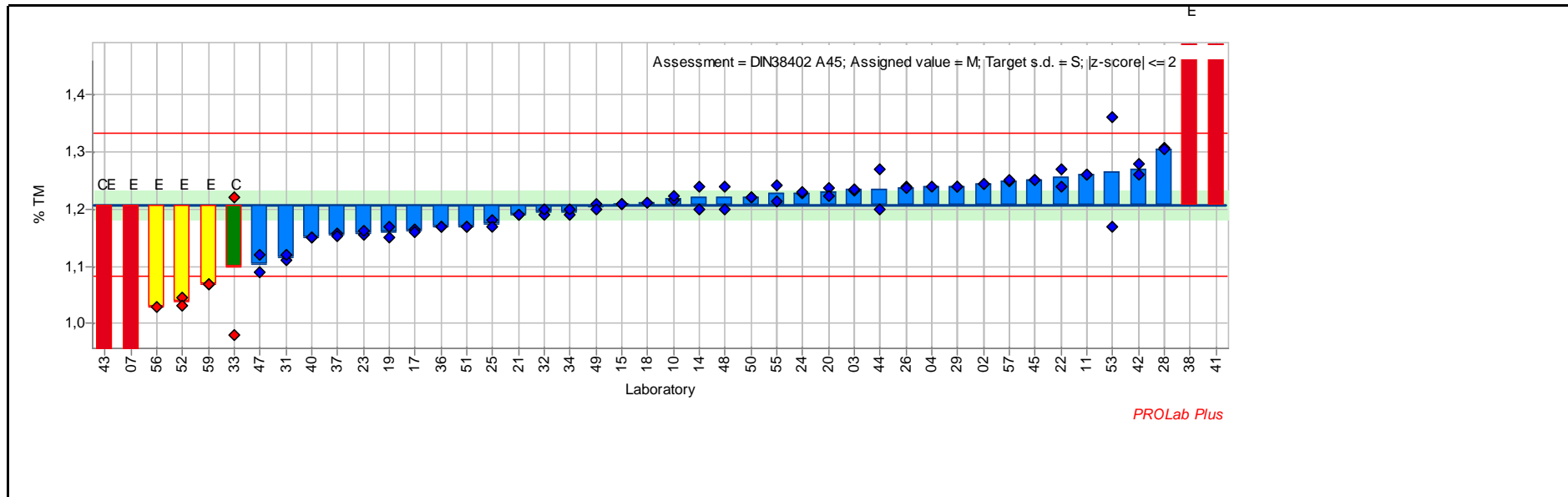
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 3,318 | 0,010 | 1,9 | 3,311 | 3,325 | no accreditation | XRF (fusion) | - |
| 11 | 3,090 | 0,000 | -0,2 | 3,090 | 3,090 | no accreditation | XRF (fusion) | - |
| 14 | 3,015 | 0,007 | -0,9 | 3,020 | 3,010 | no accreditation | XRF (fusion) | - |
| 15 | 3,025 | 0,007 | -0,8 | 3,030 | 3,020 | no accreditation | XRF (fusion) | - |
| 17 | 3,146 | 0,007 | 0,3 | 3,151 | 3,141 | no accreditation | XRF (fusion) | - |
| 18 | 3,084 | | -0,3 | 3,084 | | no accreditation | XRF (fusion) | - |
| 19 | 3,120 | 0,000 | 0,1 | 3,120 | 3,120 | no accreditation | XRF (fusion) | - |
| 20 | 2,962 | 0,062 | -1,4 | 2,918 | 3,005 | no accreditation | XRF (fusion) | C |
| 21 | 3,115 | 0,007 | 0,0 | 3,120 | 3,110 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 3,400 | 0,000 | 2,7 | 3,400 | 3,400 | no accreditation | XRF (fusion) | - |
| 23 | 3,114 | 0,012 | 0,0 | 3,122 | 3,105 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 3,064 | 0,006 | -0,4 | 3,069 | 3,060 | no accreditation | XRF (fusion) | - |
| 25 | 3,025 | 0,007 | -0,8 | 3,030 | 3,020 | ISO 17025 | XRF (fusion) | - |
| 26 | 3,101 | 0,006 | -0,1 | 3,096 | 3,105 | ISO 17025 | XRF (fusion) | - |
| 28 | 3,201 | 0,014 | 0,8 | 3,211 | 3,191 | ISO 17025 | XRF (fusion) | - |
| 29 | 3,060 | 0,014 | -0,5 | 3,050 | 3,070 | ISO 17025 | XRF (fusion) | - |
| 31 | 3,005 | 0,007 | -1,0 | 3,010 | 3,000 | ISO 17025 | XRF (fusion) | - |
| 32 | 3,090 | 0,014 | -0,2 | 3,080 | 3,100 | no accreditation | XRF (fusion) | - |
| 33 | 3,290 | 0,368 | 1,7 | 3,550 | 3,030 | no accreditation | XRF (Pellet) info only | C |
| 34 | 3,160 | 0,000 | 0,4 | 3,160 | 3,160 | no accreditation | XRF (fusion) | - |
| 36 | 3,045 | 0,007 | -0,6 | 3,040 | 3,050 | ISO 17025 | XRF (fusion) | - |
| 37 | 3,110 | 0,000 | 0,0 | 3,110 | 3,110 | no accreditation | XRF (fusion) | - |
| 38 | 2,950 | | -1,5 | 2,950 | | ISO 17025 | XRF (fusion) | - |
| 40 | 3,050 | 0,000 | -0,6 | 3,050 | 3,050 | ISO 17025 | XRF (fusion) | - |
| 41 | 3,235 | 0,120 | 1,1 | 3,320 | 3,150 | no accreditation | ICP-OES | C |
| 42 | 1,980 | 0,028 | -10,5 | 2,000 | 1,960 | no accreditation | XRF (fusion) | - |
| 43 | 1,868 | 0,233 | -11,6 | 1,703 | 2,033 | no accreditation | other | C, TXRF |
| 44 | 3,240 | 0,000 | 1,2 | 3,240 | 3,240 | no accreditation | XRF (fusion) | - |
| 45 | 3,155 | 0,007 | 0,4 | 3,150 | 3,160 | ISO 17025 | XRF (fusion) | - |
| 47 | 3,165 | 0,021 | 0,5 | 3,180 | 3,150 | ISO 17025 | XRF (fusion) | - |
| 48 | 2,960 | 0,014 | -1,4 | 2,970 | 2,950 | ISO 17025 | XRF (fusion) | - |
| 49 | 3,030 | 0,014 | -0,8 | 3,020 | 3,040 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 3,175 | 0,007 | 0,6 | 3,170 | 3,180 | no accreditation | XRF (fusion) | - |
| 51 | 3,080 | 0,014 | -0,3 | 3,070 | 3,090 | no accreditation | XRF (fusion) | - |
| 52 | 2,900 | 0,014 | -2,0 | 2,890 | 2,910 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 2,940 | 0,014 | -1,6 | 2,950 | 2,930 | no accreditation | XRF (fusion) | - |
| 55 | 3,085 | 0,001 | -0,2 | 3,086 | 3,085 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 3,160 | | 0,4 | 3,160 | | no accreditation | XRF (fusion) | - |
| 57 | 3,123 | 0,003 | 0,1 | 3,125 | 3,121 | ISO 17025 | XRF (fusion) | - |
| 59 | 3,180 | 0,000 | 0,6 | 3,180 | 3,180 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,063 % TM
Measurand: K2O **Repeat. s.d.:** 0,009 % TM
Mean ± U(Mean): 1,208 ± 0,025 % TM **Range of tolerance:** 1,082 - 1,333 % TM (|z-score| ≤ 2,0)
No. of laboratories: 39 **Sample:** DIN 38402 A45
Assigned value: 1,208 % TM (Empirical value) **Target s.d.:** 0,063 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-------------|
| 02 | 1,244 | 0,001 | 0,6 | 1,243 | 1,245 | ISO 17025 | XRF (fusion) | - |
| 03 | 1,234 | 0,001 | 0,4 | 1,233 | 1,234 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 1,240 | | 0,5 | 1,240 | | ISO 17025 | ICP-OES | - |
| 07 | 0,900 | 0,028 | -4,9 | 0,880 | 0,920 | no accreditation | XRF (fusion) | - |
| 10 | 1,219 | 0,004 | 0,2 | 1,216 | 1,222 | no accreditation | XRF (fusion) | - |

RV118

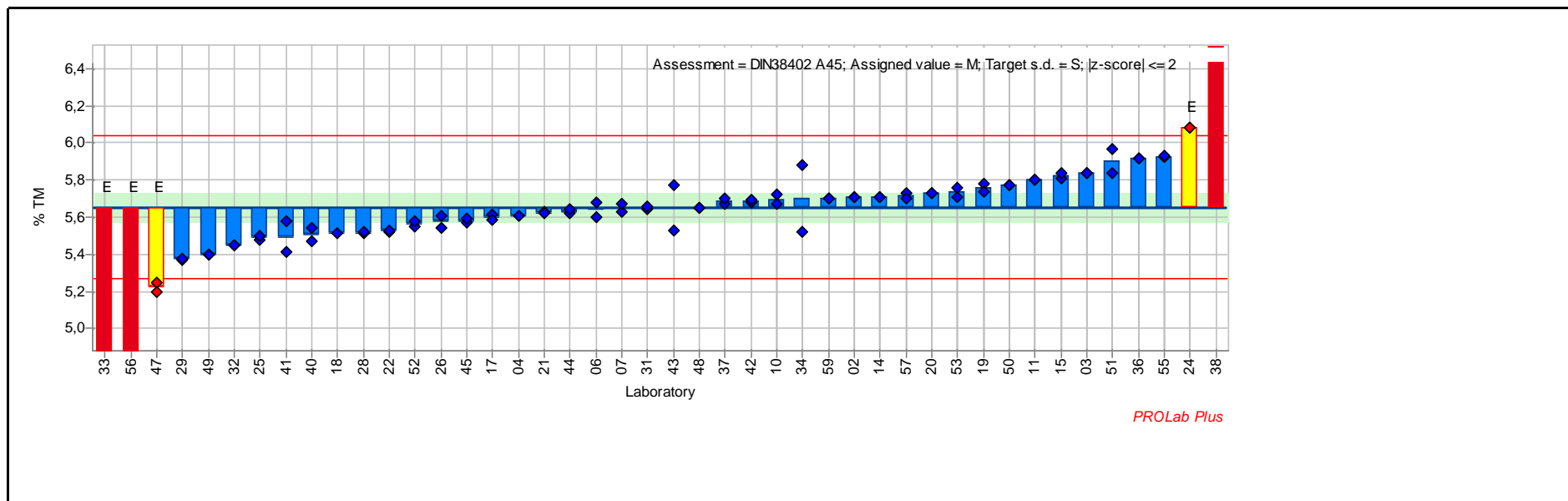
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 1,260 | 0,000 | 0,8 | 1,260 | 1,260 | no accreditation | XRF (fusion) | - |
| 14 | 1,220 | 0,028 | 0,2 | 1,240 | 1,200 | no accreditation | XRF (fusion) | - |
| 15 | 1,210 | 0,000 | 0,0 | 1,210 | 1,210 | no accreditation | XRF (fusion) | - |
| 17 | 1,163 | 0,004 | -0,7 | 1,165 | 1,160 | no accreditation | XRF (fusion) | - |
| 18 | 1,211 | | 0,1 | 1,211 | | no accreditation | XRF (fusion) | - |
| 19 | 1,160 | 0,014 | -0,8 | 1,150 | 1,170 | no accreditation | XRF (fusion) | - |
| 20 | 1,229 | 0,010 | 0,3 | 1,236 | 1,222 | no accreditation | ICP-OES | - |
| 21 | 1,190 | 0,000 | -0,3 | 1,190 | 1,190 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 1,255 | 0,021 | 0,8 | 1,270 | 1,240 | no accreditation | XRF (fusion) | - |
| 23 | 1,159 | 0,005 | -0,8 | 1,155 | 1,162 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 1,228 | 0,001 | 0,3 | 1,227 | 1,229 | no accreditation | XRF (fusion) | - |
| 25 | 1,175 | 0,007 | -0,5 | 1,180 | 1,170 | ISO 17025 | XRF (fusion) | - |
| 26 | 1,238 | 0,002 | 0,5 | 1,239 | 1,236 | ISO 17025 | ICP-OES | - |
| 28 | 1,305 | 0,002 | 1,6 | 1,307 | 1,304 | ISO 17025 | XRF (fusion) | - |
| 29 | 1,240 | 0,000 | 0,5 | 1,240 | 1,240 | ISO 17025 | XRF (fusion) | - |
| 31 | 1,115 | 0,007 | -1,5 | 1,110 | 1,120 | ISO 17025 | XRF (fusion) | - |
| 32 | 1,195 | 0,007 | -0,2 | 1,190 | 1,200 | no accreditation | XRF (fusion) | - |
| 33 | 1,100 | 0,170 | -1,7 | 0,980 | 1,220 | no accreditation | XRF (Pellet) info only | C |
| 34 | 1,195 | 0,007 | -0,2 | 1,190 | 1,200 | no accreditation | XRF (fusion) | - |
| 36 | 1,170 | 0,000 | -0,6 | 1,170 | 1,170 | no accreditation | other | AAS |
| 37 | 1,155 | 0,003 | -0,8 | 1,157 | 1,153 | no accreditation | XRF (fusion) | - |
| 38 | 1,510 | | 4,8 | 1,510 | | ISO 17025 | ICP-OES | - |
| 40 | 1,150 | 0,000 | -0,9 | 1,150 | 1,150 | ISO 17025 | XRF (fusion) | - |
| 41 | 2,275 | 0,332 | 17,0 | 2,510 | 2,040 | no accreditation | ICP-OES | C |
| 42 | 1,270 | 0,014 | 1,0 | 1,280 | 1,260 | no accreditation | XRF (fusion) | - |
| 43 | 0,689 | 0,092 | -8,3 | 0,754 | 0,624 | no accreditation | other | C, TXRF |
| 44 | 1,235 | 0,049 | 0,4 | 1,270 | 1,200 | no accreditation | XRF (fusion) | C |
| 45 | 1,250 | 0,000 | 0,7 | 1,250 | 1,250 | ISO 17025 | XRF (fusion) | - |
| 47 | 1,105 | 0,021 | -1,6 | 1,090 | 1,120 | ISO 17025 | XRF (fusion) | - |
| 48 | 1,220 | 0,028 | 0,2 | 1,200 | 1,240 | ISO 17025 | XRF (fusion) | - |
| 49 | 1,205 | 0,007 | 0,0 | 1,210 | 1,200 | no accreditation | XRF (fusion) | - |
| 50 | 1,220 | 0,000 | 0,2 | 1,220 | 1,220 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 51 | 1,170 | 0,000 | -0,6 | 1,170 | 1,170 | no accreditation | XRF (fusion) | - |
| 52 | 1,038 | 0,010 | -2,7 | 1,045 | 1,031 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 1,265 | 0,134 | 0,9 | 1,170 | 1,360 | no accreditation | XRF (fusion) | C |
| 55 | 1,228 | 0,020 | 0,3 | 1,214 | 1,242 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 1,030 | | -2,8 | 1,030 | | no accreditation | XRF (fusion) | - |
| 57 | 1,249 | 0,001 | 0,7 | 1,248 | 1,250 | ISO 17025 | XRF (fusion) | - |
| 59 | 1,070 | 0,000 | -2,2 | 1,070 | 1,070 | no accreditation | XRF (fusion) | - |

RV118

| | | | |
|-----------------------------|-------------------------------------|----------------------------|---|
| Sample: | FLX-CRM 119 | Reprod. s.d.: | 0,194 % TM |
| Measurand: | LOI (1h @ 950°C) observed | Repeat. s.d.: | 0,023 % TM |
| Mean ± U(Mean): | 5,654 ± 0,073 % TM | Range of tolerance: | 5,267 - 6,041 % TM (z-score ≤ 2,0) |
| No. of laboratories: | 44 | Sample | DIN 38402 A45 |
| Assigned value | 5,654 % TM (Empirical value) | Target s.d. | 0,194 % TM (Empirical value) |



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 02 | 5,710 | 0,000 | 0,3 | 5,710 | 5,710 | ISO 17025 | 1h@950°C | - |
| 03 | 5,840 | 0,000 | 1,0 | 5,840 | 5,840 | no accreditation | Wet chemistry EN196-2 | - |
| 04 | 5,610 | | -0,2 | 5,610 | | ISO 17025 | 1h@950°C | - |
| 06 | 5,640 | 0,057 | -0,1 | 5,600 | 5,680 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 5,650 | 0,028 | 0,0 | 5,630 | 5,670 | no accreditation | 1h@950°C | - |

RV118

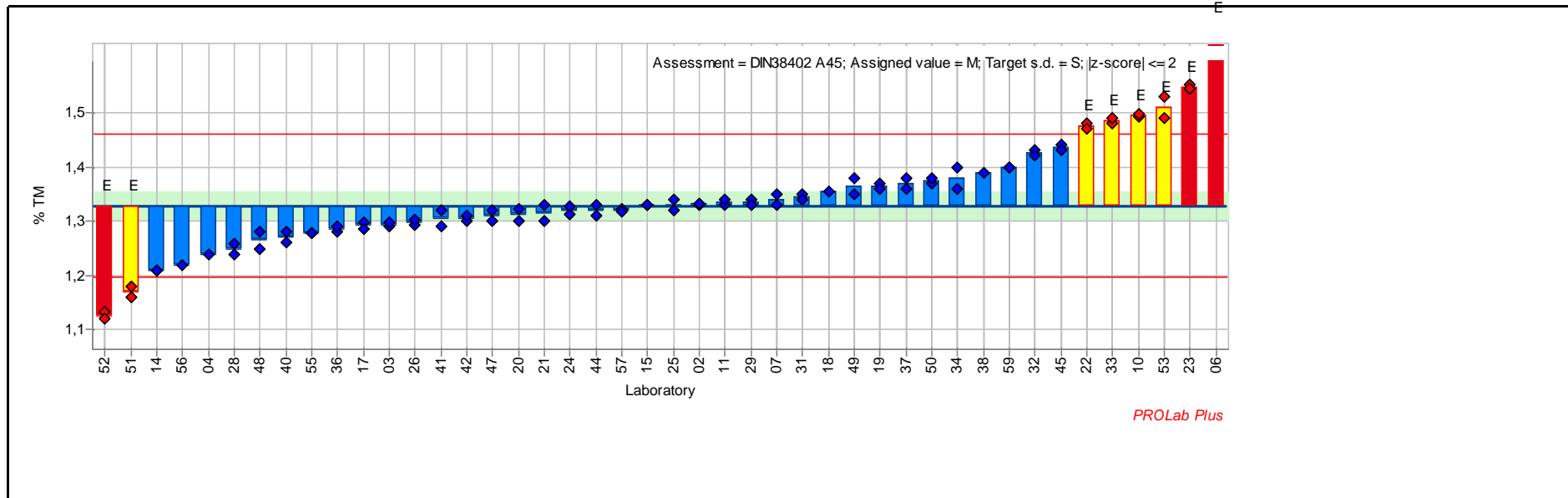
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|----------------|
| 10 | 5,695 | 0,035 | 0,2 | 5,670 | 5,720 | no accreditation | XRF (fusion) | - |
| 11 | 5,800 | 0,000 | 0,8 | 5,800 | 5,800 | no accreditation | Wet chemistry EN196-2 | - |
| 14 | 5,710 | 0,000 | 0,3 | 5,710 | 5,710 | no accreditation | 1h@950°C | corr. EN 196-2 |
| 15 | 5,825 | 0,021 | 0,9 | 5,810 | 5,840 | no accreditation | 1h@950°C | - |
| 17 | 5,601 | 0,022 | -0,3 | 5,616 | 5,585 | no accreditation | 1h@950°C | - |
| 18 | 5,510 | | -0,7 | 5,510 | | no accreditation | 1h@950°C | - |
| 19 | 5,760 | 0,028 | 0,5 | 5,780 | 5,740 | no accreditation | 1h@950°C | - |
| 20 | 5,730 | 0,000 | 0,4 | 5,730 | 5,730 | no accreditation | 1h@950°C | - |
| 21 | 5,625 | 0,007 | -0,1 | 5,630 | 5,620 | ISO 17025 | Wet chemistry EN196-2 | - |
| 22 | 5,525 | 0,007 | -0,7 | 5,520 | 5,530 | no accreditation | 1h@950°C | - |
| 24 | 6,079 | 0,000 | 2,2 | 6,079 | 6,079 | no accreditation | 1h@950°C | - |
| 25 | 5,490 | 0,014 | -0,8 | 5,480 | 5,500 | ISO 17025 | 1h@950°C | - |
| 26 | 5,575 | 0,049 | -0,4 | 5,610 | 5,540 | ISO 17025 | 1h@950°C | - |
| 28 | 5,515 | 0,007 | -0,7 | 5,510 | 5,520 | ISO 17025 | 1h@950°C | - |
| 29 | 5,375 | 0,007 | -1,4 | 5,370 | 5,380 | ISO 17025 | 1h@950°C | - |
| 31 | 5,650 | 0,014 | 0,0 | 5,640 | 5,660 | no accreditation | 1h@950°C | - |
| 32 | 5,450 | 0,000 | -1,1 | 5,450 | 5,450 | no accreditation | 1h@950°C | - |
| 33 | 4,445 | 0,177 | -6,2 | 4,320 | 4,570 | no accreditation | 1h@950°C | C |
| 34 | 5,700 | 0,255 | 0,2 | 5,880 | 5,520 | no accreditation | 1h@950°C | C |
| 36 | 5,920 | 0,000 | 1,4 | 5,920 | 5,920 | ISO 17025 | 1h@950°C | - |
| 37 | 5,685 | 0,021 | 0,2 | 5,670 | 5,700 | no accreditation | 1h@950°C | - |
| 38 | 11,780 | | 31,7 | 11,780 | | no accreditation | 1h@950°C | - |
| 40 | 5,505 | 0,049 | -0,8 | 5,470 | 5,540 | ISO 17025 | XRF (fusion) | - |
| 41 | 5,495 | 0,120 | -0,8 | 5,410 | 5,580 | no accreditation | 1h@950°C | C |
| 42 | 5,685 | 0,007 | 0,2 | 5,680 | 5,690 | no accreditation | 1h@950°C | - |
| 43 | 5,650 | 0,170 | 0,0 | 5,530 | 5,770 | no accreditation | 1h@950°C | C |
| 44 | 5,630 | 0,014 | -0,1 | 5,620 | 5,640 | no accreditation | 1h@950°C | - |
| 45 | 5,580 | 0,014 | -0,4 | 5,570 | 5,590 | ISO 17025 | 1h@950°C | - |
| 47 | 5,225 | 0,035 | -2,2 | 5,250 | 5,200 | no accreditation | 1h@950°C | - |
| 48 | 5,650 | 0,000 | 0,0 | 5,650 | 5,650 | ISO 17025 | 1h@950°C | - |
| 49 | 5,400 | 0,000 | -1,3 | 5,400 | 5,400 | no accreditation | combustion | - |
| 50 | 5,770 | 0,000 | 0,6 | 5,770 | 5,770 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-----------------------|
| 51 | 5,905 | 0,092 | 1,3 | 5,970 | 5,840 | ISO 17025 | XRF (fusion) | C |
| 52 | 5,565 | 0,021 | -0,5 | 5,550 | 5,580 | no accreditation | 1h@950°C | - |
| 53 | 5,735 | 0,035 | 0,4 | 5,710 | 5,760 | no accreditation | 1h@950°C | - |
| 55 | 5,926 | 0,007 | 1,4 | 5,921 | 5,931 | no accreditation | 1h@950°C | Reconstitution Method |
| 56 | 4,770 | | -4,6 | 4,770 | | no accreditation | 1h@950°C | - |
| 57 | 5,715 | 0,021 | 0,3 | 5,730 | 5,700 | ISO 17025 | 1h@950°C | - |
| 59 | 5,700 | 0,000 | 0,2 | 5,700 | 5,700 | no accreditation | 1h@950°C | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,066 % TM
Measurand: MgO **Repeat. s.d.:** 0,013 % TM
Mean ± U(Mean): 1,329 ± 0,026 % TM **Range of tolerance:** 1,197 - 1,461 % TM (|z-score| <= 2,0)
No. of laboratories: 41 **Sample:** DIN 38402 A45
Assigned value: 1,329 % TM (Empirical value) **Target s.d.:** 0,066 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 1,332 | 0,002 | 0,0 | 1,330 | 1,333 | ISO 17025 | XRF (fusion) | - |
| 03 | 1,294 | 0,007 | -0,5 | 1,290 | 1,299 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 1,240 | | -1,3 | 1,240 | | ISO 17025 | ICP-OES | - |
| 06 | 1,655 | 0,049 | 4,9 | 1,690 | 1,620 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 1,340 | 0,014 | 0,2 | 1,330 | 1,350 | no accreditation | XRF (fusion) | - |

RV118

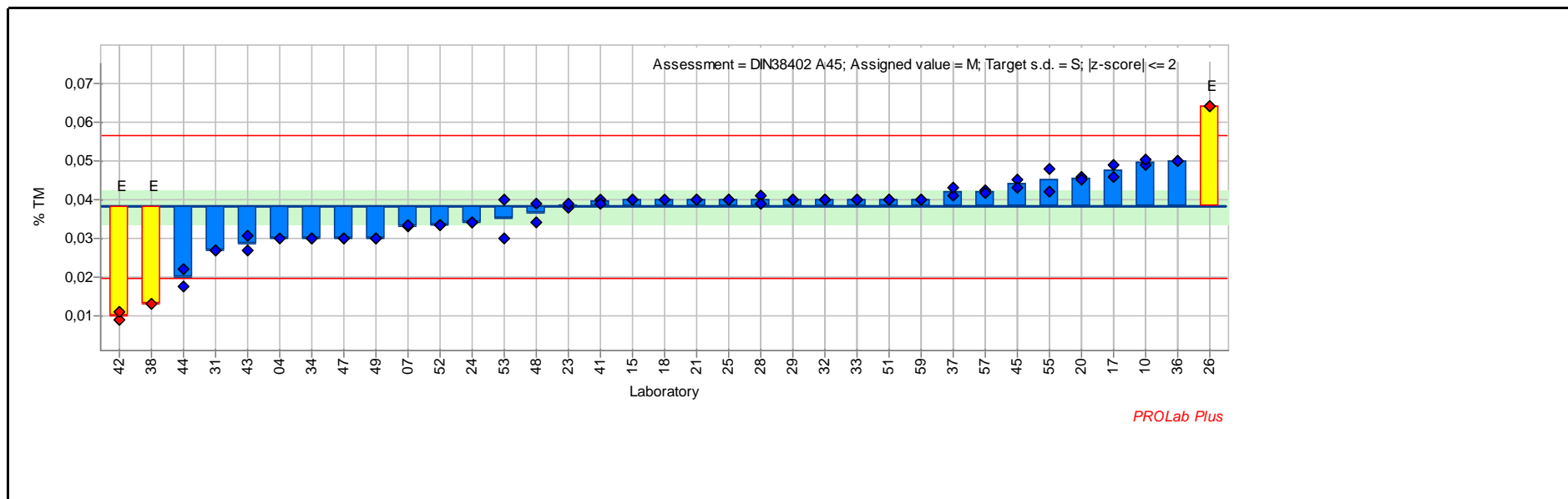
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 1,496 | 0,004 | 2,5 | 1,493 | 1,498 | no accreditation | XRF (fusion) | - |
| 11 | 1,335 | 0,007 | 0,1 | 1,330 | 1,340 | no accreditation | XRF (fusion) | - |
| 14 | 1,210 | 0,000 | -1,8 | 1,210 | 1,210 | no accreditation | XRF (fusion) | - |
| 15 | 1,330 | 0,000 | 0,0 | 1,330 | 1,330 | no accreditation | XRF (fusion) | - |
| 17 | 1,292 | 0,009 | -0,5 | 1,299 | 1,286 | no accreditation | XRF (fusion) | - |
| 18 | 1,355 | | 0,4 | 1,355 | | no accreditation | XRF (fusion) | - |
| 19 | 1,365 | 0,007 | 0,5 | 1,370 | 1,360 | no accreditation | XRF (fusion) | - |
| 20 | 1,312 | 0,016 | -0,3 | 1,301 | 1,323 | no accreditation | XRF (fusion) | - |
| 21 | 1,315 | 0,021 | -0,2 | 1,330 | 1,300 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 1,475 | 0,007 | 2,2 | 1,480 | 1,470 | no accreditation | XRF (fusion) | - |
| 23 | 1,547 | 0,006 | 3,3 | 1,552 | 1,543 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 1,320 | 0,010 | -0,1 | 1,313 | 1,327 | no accreditation | XRF (fusion) | - |
| 25 | 1,330 | 0,014 | 0,0 | 1,320 | 1,340 | ISO 17025 | XRF (fusion) | - |
| 26 | 1,298 | 0,006 | -0,5 | 1,294 | 1,303 | ISO 17025 | XRF (fusion) | - |
| 28 | 1,248 | 0,015 | -1,2 | 1,238 | 1,259 | ISO 17025 | XRF (fusion) | - |
| 29 | 1,335 | 0,007 | 0,1 | 1,340 | 1,330 | ISO 17025 | XRF (fusion) | - |
| 31 | 1,345 | 0,007 | 0,2 | 1,350 | 1,340 | ISO 17025 | XRF (fusion) | - |
| 32 | 1,425 | 0,007 | 1,5 | 1,430 | 1,420 | no accreditation | XRF (fusion) | - |
| 33 | 1,485 | 0,007 | 2,4 | 1,480 | 1,490 | no accreditation | XRF (Pellet) info only | - |
| 34 | 1,380 | 0,028 | 0,8 | 1,360 | 1,400 | no accreditation | XRF (fusion) | - |
| 36 | 1,285 | 0,007 | -0,7 | 1,280 | 1,290 | ISO 17025 | XRF (fusion) | - |
| 37 | 1,370 | 0,014 | 0,6 | 1,380 | 1,360 | no accreditation | XRF (fusion) | - |
| 38 | 1,390 | | 0,9 | 1,390 | | ISO 17025 | XRF (fusion) | - |
| 40 | 1,270 | 0,014 | -0,9 | 1,280 | 1,260 | ISO 17025 | XRF (fusion) | - |
| 41 | 1,305 | 0,021 | -0,4 | 1,320 | 1,290 | no accreditation | ICP-OES | - |
| 42 | 1,305 | 0,007 | -0,4 | 1,300 | 1,310 | no accreditation | XRF (fusion) | - |
| 44 | 1,320 | 0,014 | -0,1 | 1,310 | 1,330 | no accreditation | XRF (fusion) | - |
| 45 | 1,435 | 0,007 | 1,6 | 1,440 | 1,430 | ISO 17025 | XRF (fusion) | - |
| 47 | 1,310 | 0,014 | -0,3 | 1,320 | 1,300 | ISO 17025 | XRF (fusion) | - |
| 48 | 1,265 | 0,021 | -1,0 | 1,280 | 1,250 | ISO 17025 | XRF (fusion) | - |
| 49 | 1,365 | 0,021 | 0,5 | 1,380 | 1,350 | no accreditation | XRF (fusion) | - |
| 50 | 1,375 | 0,007 | 0,7 | 1,370 | 1,380 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 51 | 1,170 | 0,014 | -2,4 | 1,160 | 1,180 | no accreditation | XRF (fusion) | - |
| 52 | 1,127 | 0,007 | -3,1 | 1,132 | 1,122 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 1,510 | 0,028 | 2,7 | 1,530 | 1,490 | no accreditation | XRF (fusion) | - |
| 55 | 1,279 | 0,000 | -0,8 | 1,279 | 1,279 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 1,220 | | -1,6 | 1,220 | | no accreditation | XRF (fusion) | - |
| 57 | 1,320 | 0,002 | -0,1 | 1,321 | 1,319 | ISO 17025 | XRF (fusion) | - |
| 59 | 1,400 | 0,000 | 1,1 | 1,400 | 1,400 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,009 % TM
Measurand: Mn2O3 **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,038 ± 0,004 % TM **Range of tolerance:** 0,020 - 0,057 % TM (|z-score| ≤ 2,0)
No. of laboratories: 30 **Sample:** DIN 38402 A45
Assigned value: 0,038 % TM (Empirical value) **Target s.d.:** 0,009 % TM (Empirical value)



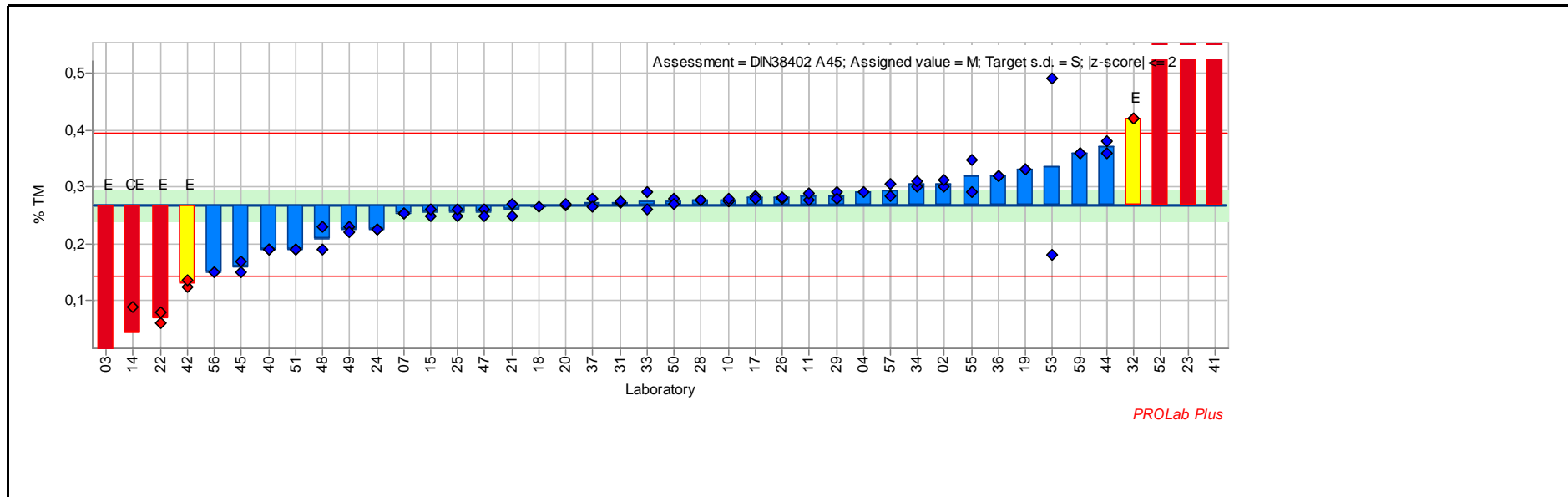
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 04 | 0,030 | | -0,9 | 0,030 | | ISO 17025 | ICP-OES | - |
| 07 | 0,033 | 0,000 | -0,5 | 0,033 | 0,034 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,050 | 0,001 | 1,2 | 0,049 | 0,050 | no accreditation | XRF (fusion) | - |
| 14 | | | | | | | | - |
| 15 | 0,040 | 0,000 | 0,2 | 0,040 | 0,040 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------------------|
| 17 | 0,048 | 0,002 | 1,0 | 0,046 | 0,049 | no accreditation | XRF (fusion) | - |
| 18 | 0,040 | | 0,2 | 0,040 | | no accreditation | XRF (fusion) | - |
| 20 | 0,045 | 0,001 | 0,8 | 0,046 | 0,045 | no accreditation | XRF (fusion) | - |
| 21 | 0,040 | 0,000 | 0,2 | 0,040 | 0,040 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,038 | 0,001 | 0,0 | 0,038 | 0,039 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,034 | 0,000 | -0,4 | 0,034 | 0,034 | no accreditation | XRF (fusion) | - |
| 25 | 0,040 | 0,000 | 0,2 | 0,040 | 0,040 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,064 | 0,000 | 2,8 | 0,064 | 0,064 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,040 | 0,001 | 0,2 | 0,041 | 0,039 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,040 | 0,000 | 0,2 | 0,040 | 0,040 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,027 | 0,000 | -1,2 | 0,027 | 0,027 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 32 | 0,040 | 0,000 | 0,2 | 0,040 | 0,040 | no accreditation | XRF (fusion) | - |
| 33 | 0,040 | 0,000 | 0,2 | 0,040 | 0,040 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,030 | 0,000 | -0,9 | 0,030 | 0,030 | no accreditation | XRF (fusion) | - |
| 36 | 0,050 | 0,000 | 1,3 | 0,050 | 0,050 | ISO 17025 | XRF (fusion) | - |
| 37 | 0,042 | 0,001 | 0,4 | 0,041 | 0,043 | no accreditation | XRF (fusion) | - |
| 38 | 0,013 | | -2,7 | 0,013 | | ISO 17025 | ICP-OES | - |
| 41 | 0,040 | 0,001 | 0,2 | 0,040 | 0,039 | no accreditation | ICP-OES | - |
| 42 | 0,010 | 0,001 | -3,0 | 0,009 | 0,011 | no accreditation | XRF (fusion) | - |
| 43 | 0,029 | 0,003 | -1,0 | 0,031 | 0,027 | no accreditation | other | TXRF |
| 44 | 0,020 | 0,003 | -2,0 | 0,018 | 0,022 | no accreditation | XRF (fusion) | calc. from MnO |
| 45 | 0,044 | 0,001 | 0,6 | 0,045 | 0,043 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,030 | 0,000 | -0,9 | 0,030 | 0,030 | no accreditation | XRF (fusion) | - |
| 48 | 0,037 | 0,004 | -0,2 | 0,034 | 0,039 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,030 | 0,000 | -0,9 | 0,030 | 0,030 | no accreditation | XRF (fusion) | - |
| 51 | 0,040 | 0,000 | 0,2 | 0,040 | 0,040 | no accreditation | XRF (fusion) | - |
| 52 | 0,033 | 0,000 | -0,5 | 0,034 | 0,033 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,035 | 0,007 | -0,3 | 0,040 | 0,030 | no accreditation | XRF (fusion) | C |
| 55 | 0,045 | 0,004 | 0,7 | 0,042 | 0,048 | no accreditation | XRF (fusion) | Reconstitution Method |
| 57 | 0,042 | 0,000 | 0,4 | 0,043 | 0,042 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,040 | 0,000 | 0,2 | 0,040 | 0,040 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,063 % TM
Measurand: Na2O **Repeat. s.d.:** 0,010 % TM
Mean ± U(Mean): 0,269 ± 0,027 % TM **Range of tolerance:** 0,143 - 0,395 % TM (|z-score| <= 2,0)
No. of laboratories: 35 **Sample:** DIN 38402 A45
Assigned value: 0,269 % TM (Empirical value) **Target s.d.:** 0,063 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,306 | 0,008 | 0,6 | 0,300 | 0,312 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,001 | 0,000 | -4,2 | 0,001 | 0,001 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,290 | | 0,3 | 0,290 | | ISO 17025 | ICP-OES | - |
| 07 | 0,253 | 0,000 | -0,3 | 0,253 | 0,253 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,277 | 0,005 | 0,1 | 0,274 | 0,280 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,283 | 0,008 | 0,2 | 0,277 | 0,289 | no accreditation | XRF (fusion) | - |
| 14 | 0,045 | 0,064 | -3,5 | 0,000 | 0,090 | no accreditation | other | C, EDXRF fusion |
| 15 | 0,255 | 0,007 | -0,2 | 0,250 | 0,260 | no accreditation | XRF (fusion) | - |
| 17 | 0,281 | 0,003 | 0,2 | 0,283 | 0,279 | no accreditation | XRF (fusion) | - |
| 18 | 0,265 | | -0,1 | 0,265 | | no accreditation | XRF (fusion) | - |
| 19 | 0,330 | 0,000 | 1,0 | 0,330 | 0,330 | no accreditation | XRF (fusion) | - |
| 20 | 0,269 | 0,002 | 0,0 | 0,267 | 0,270 | no accreditation | ICP-OES | - |
| 21 | 0,260 | 0,014 | -0,1 | 0,270 | 0,250 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,070 | 0,014 | -3,2 | 0,080 | 0,060 | no accreditation | XRF (fusion) | - |
| 23 | 1,961 | 0,045 | 26,8 | 1,929 | 1,992 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,226 | 0,000 | -0,7 | 0,226 | 0,226 | no accreditation | XRF (fusion) | - |
| 25 | 0,255 | 0,007 | -0,2 | 0,250 | 0,260 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,281 | 0,001 | 0,2 | 0,280 | 0,282 | ISO 17025 | ICP-OES | - |
| 28 | 0,277 | 0,001 | 0,1 | 0,276 | 0,277 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,285 | 0,007 | 0,3 | 0,290 | 0,280 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,274 | 0,001 | 0,1 | 0,273 | 0,274 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,420 | 0,000 | 2,4 | 0,420 | 0,420 | no accreditation | XRF (fusion) | - |
| 33 | 0,275 | 0,021 | 0,1 | 0,260 | 0,290 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,305 | 0,007 | 0,6 | 0,300 | 0,310 | no accreditation | XRF (fusion) | - |
| 36 | 0,320 | 0,000 | 0,8 | 0,320 | 0,320 | no accreditation | other | AAS |
| 37 | 0,273 | 0,011 | 0,1 | 0,280 | 0,265 | no accreditation | XRF (fusion) | - |
| 40 | 0,190 | 0,000 | -1,3 | 0,190 | 0,190 | no accreditation | other | AAS |
| 41 | 6,365 | 1,464 | 96,6 | 7,400 | 5,330 | no accreditation | ICP-OES | C |
| 42 | 0,131 | 0,008 | -2,2 | 0,125 | 0,137 | no accreditation | XRF (fusion) | - |
| 44 | 0,370 | 0,014 | 1,6 | 0,360 | 0,380 | no accreditation | XRF (fusion) | - |
| 45 | 0,160 | 0,014 | -1,7 | 0,150 | 0,170 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,255 | 0,007 | -0,2 | 0,260 | 0,250 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,210 | 0,028 | -0,9 | 0,190 | 0,230 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,225 | 0,007 | -0,7 | 0,230 | 0,220 | no accreditation | XRF (fusion) | - |
| 50 | 0,275 | 0,007 | 0,1 | 0,280 | 0,270 | no accreditation | XRF (fusion) | - |
| 51 | 0,190 | 0,000 | -1,3 | 0,190 | 0,190 | no accreditation | XRF (fusion) | - |
| 52 | 1,641 | 0,040 | 21,8 | 1,669 | 1,613 | no accreditation | XRF (Pellet) info only | EDRFA |

RV118

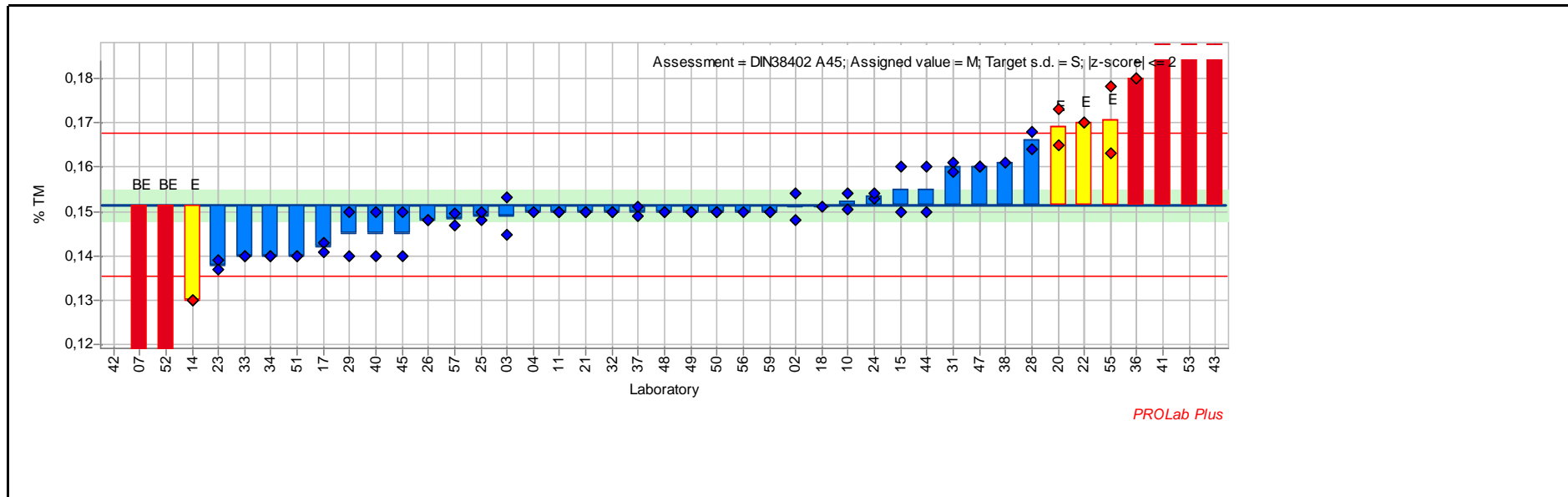
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|---------------------------|
| 53 | 0,335 | 0,219 | 1,0 | 0,490 | 0,180 | no accreditation | XRF (fusion) | C |
| 55 | 0,320 | 0,040 | 0,8 | 0,348 | 0,292 | no accreditation | XRF (fusion) | C - Reconstitution Method |
| 56 | 0,150 | | -1,9 | 0,150 | | no accreditation | XRF (fusion) | - |
| 57 | 0,295 | 0,015 | 0,4 | 0,305 | 0,284 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,360 | 0,000 | 1,4 | 0,360 | 0,360 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,008 % TM
Measurand: P2O5 **Repeat. s.d.:** 0,004 % TM
Mean ± U(Mean): 0,152 ± 0,003 % TM **Range of tolerance:** 0,135 - 0,168 % TM (|z-score| ≤ 2,0)
No. of laboratories: 36 **Sample:** DIN 38402 A45
Assigned value: 0,152 % TM (Empirical value) **Target s.d.:** 0,008 % TM (Empirical value)

E

BE



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,151 | 0,004 | -0,1 | 0,154 | 0,148 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,149 | 0,006 | -0,3 | 0,153 | 0,145 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,150 | | -0,2 | 0,150 | | ISO 17025 | ICP-OES | - |
| 07 | 0,037 | 0,002 | -14,2 | 0,038 | 0,036 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,152 | 0,003 | 0,1 | 0,154 | 0,150 | no accreditation | XRF (fusion) | - |

RV118

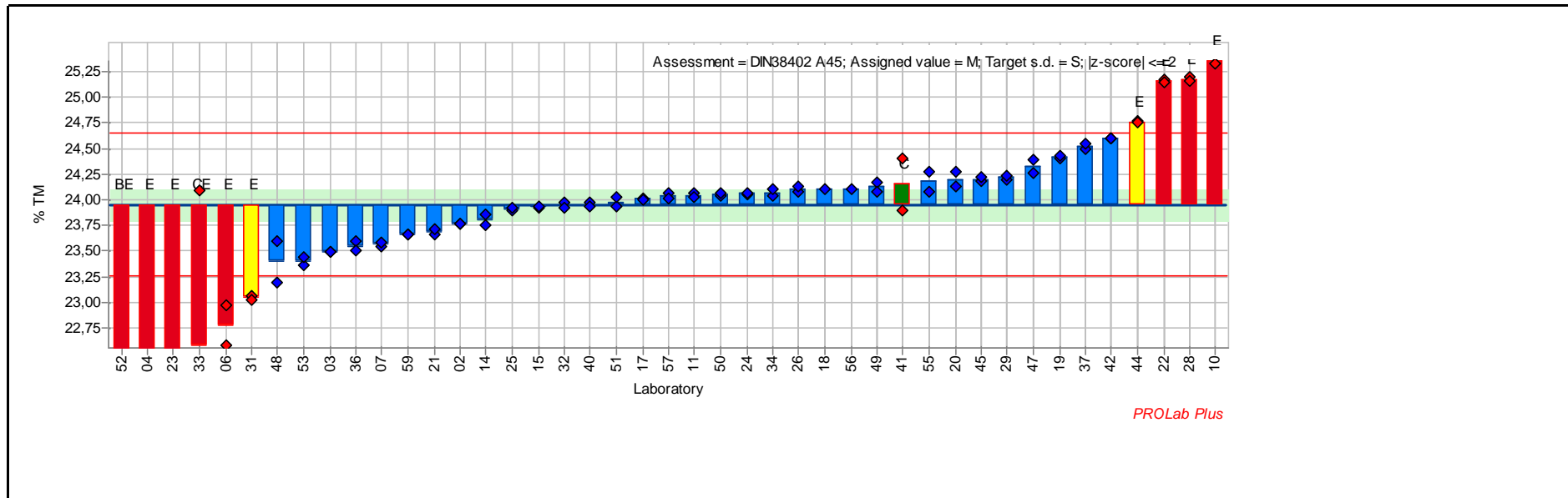
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,150 | 0,000 | -0,2 | 0,150 | 0,150 | no accreditation | XRF (fusion) | - |
| 14 | 0,130 | 0,000 | -2,7 | 0,130 | 0,130 | no accreditation | XRF (fusion) | - |
| 15 | 0,155 | 0,007 | 0,4 | 0,160 | 0,150 | no accreditation | XRF (fusion) | - |
| 17 | 0,142 | 0,001 | -1,2 | 0,143 | 0,141 | no accreditation | XRF (fusion) | - |
| 18 | 0,151 | | -0,1 | 0,151 | | no accreditation | XRF (fusion) | - |
| 20 | 0,169 | 0,006 | 2,2 | 0,165 | 0,173 | no accreditation | XRF (fusion) | - |
| 21 | 0,150 | 0,000 | -0,2 | 0,150 | 0,150 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,170 | 0,000 | 2,3 | 0,170 | 0,170 | no accreditation | XRF (fusion) | - |
| 23 | 0,138 | 0,001 | -1,7 | 0,139 | 0,137 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,153 | 0,001 | 0,2 | 0,153 | 0,154 | no accreditation | XRF (fusion) | - |
| 25 | 0,149 | 0,001 | -0,3 | 0,148 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,148 | 0,000 | -0,4 | 0,148 | 0,148 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,166 | 0,003 | 1,8 | 0,164 | 0,168 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,145 | 0,007 | -0,8 | 0,140 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,160 | 0,001 | 1,0 | 0,161 | 0,159 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,150 | 0,000 | -0,2 | 0,150 | 0,150 | no accreditation | XRF (fusion) | - |
| 33 | 0,140 | 0,000 | -1,4 | 0,140 | 0,140 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,140 | 0,000 | -1,4 | 0,140 | 0,140 | no accreditation | XRF (fusion) | - |
| 36 | 0,180 | 0,000 | 3,5 | 0,180 | 0,180 | no accreditation | XRF (fusion) | - |
| 37 | 0,150 | 0,001 | -0,2 | 0,149 | 0,151 | no accreditation | XRF (fusion) | - |
| 38 | 0,161 | | 1,2 | 0,161 | | ISO 17025 | ICP-OES | - |
| 40 | 0,145 | 0,007 | -0,8 | 0,140 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 41 | 0,213 | 0,004 | 7,7 | 0,216 | 0,211 | no accreditation | XRF (Pellet) info only | |
| 42 | | | | <0,005 | <0,005 | no accreditation | XRF (fusion) | - |
| 43 | 0,271 | 0,048 | 14,8 | 0,305 | 0,237 | no accreditation | other | C, TXRF |
| 44 | 0,155 | 0,007 | 0,4 | 0,160 | 0,150 | no accreditation | XRF (fusion) | - |
| 45 | 0,145 | 0,007 | -0,8 | 0,150 | 0,140 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,160 | 0,000 | 1,0 | 0,160 | 0,160 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,150 | 0,000 | -0,2 | 0,150 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,150 | 0,000 | -0,2 | 0,150 | 0,150 | no accreditation | XRF (fusion) | - |
| 50 | 0,150 | 0,000 | -0,2 | 0,150 | 0,150 | no accreditation | XRF (fusion) | - |
| 51 | 0,140 | 0,000 | -1,4 | 0,140 | 0,140 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 52 | 0,106 | 0,000 | -5,6 | 0,106 | 0,106 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,227 | 0,000 | 9,4 | 0,227 | 0,227 | no accreditation | XRF (fusion) | - |
| 55 | 0,170 | 0,011 | 2,4 | 0,163 | 0,178 | no accreditation | XRF (fusion) | - |
| 56 | 0,150 | | -0,2 | 0,150 | | no accreditation | XRF (fusion) | - |
| 57 | 0,148 | 0,002 | -0,4 | 0,147 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,150 | 0,000 | -0,2 | 0,150 | 0,150 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,349 % TM
Measurand: SiO2 **Repeat. s.d.:** 0,043 % TM
Mean ± U(Mean): 23,955 ± 0,154 % TM **Range of tolerance:** 23,256 - 24,653 % TM (|z-score| ≤ 2,0)
No. of laboratories: 32 **Sample:** DIN 38402 A45
Assigned value: 23,955 % TM (Empirical value) **Target s.d.:** 0,349 % TM (Empirical value)



PROLab Plus

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|------------------------------|
| 02 | 23,765 | 0,006 | -0,5 | 23,761 | 23,770 | ISO 17025 | XRF (fusion) | - |
| 03 | 23,490 | 0,001 | -1,3 | 23,491 | 23,489 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 20,860 | | -8,9 | 20,860 | | ISO 17025 | ICP-OES | - |
| 06 | 22,780 | 0,269 | -3,4 | 22,970 | 22,590 | no accreditation | Wet chemistry EN196-2 | C, precip. aided by gelatine |
| 07 | 23,565 | 0,021 | -1,1 | 23,550 | 23,580 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 25,355 | 0,035 | 4,0 | 25,380 | 25,330 | no accreditation | XRF (fusion) | - |
| 11 | 24,045 | 0,021 | 0,3 | 24,060 | 24,030 | no accreditation | XRF (fusion) | - |
| 14 | 23,805 | 0,078 | -0,4 | 23,860 | 23,750 | no accreditation | XRF (fusion) | - |
| 15 | 23,930 | 0,014 | -0,1 | 23,920 | 23,940 | no accreditation | XRF (fusion) | - |
| 17 | 24,008 | 0,004 | 0,2 | 24,010 | 24,005 | no accreditation | XRF (fusion) | - |
| 18 | 24,110 | | 0,4 | 24,110 | | no accreditation | XRF (fusion) | - |
| 19 | 24,415 | 0,021 | 1,3 | 24,400 | 24,430 | no accreditation | XRF (fusion) | - |
| 20 | 24,200 | 0,099 | 0,7 | 24,270 | 24,130 | no accreditation | XRF (fusion) | - |
| 21 | 23,685 | 0,035 | -0,8 | 23,660 | 23,710 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 25,160 | 0,014 | 3,5 | 25,170 | 25,150 | no accreditation | XRF (fusion) | - |
| 23 | 22,190 | 0,085 | -5,1 | 22,250 | 22,130 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 24,059 | 0,013 | 0,3 | 24,050 | 24,069 | no accreditation | XRF (fusion) | - |
| 25 | 23,905 | 0,021 | -0,1 | 23,890 | 23,920 | ISO 17025 | XRF (fusion) | - |
| 26 | 24,105 | 0,036 | 0,4 | 24,080 | 24,131 | ISO 17025 | XRF (fusion) | - |
| 28 | 25,174 | 0,028 | 3,5 | 25,194 | 25,154 | ISO 17025 | XRF (fusion) | - |
| 29 | 24,215 | 0,035 | 0,7 | 24,190 | 24,240 | ISO 17025 | XRF (fusion) | - |
| 31 | 23,050 | 0,028 | -2,6 | 23,070 | 23,030 | ISO 17025 | XRF (fusion) | - |
| 32 | 23,945 | 0,035 | 0,0 | 23,970 | 23,920 | no accreditation | XRF (fusion) | - |
| 33 | 22,590 | 2,121 | -3,9 | 21,090 | 24,090 | no accreditation | XRF (Pellet) info only | C |
| 34 | 24,070 | 0,042 | 0,3 | 24,040 | 24,100 | no accreditation | XRF (fusion) | - |
| 36 | 23,550 | 0,071 | -1,2 | 23,600 | 23,500 | ISO 17025 | XRF (fusion) | - |
| 37 | 24,525 | 0,035 | 1,6 | 24,500 | 24,550 | no accreditation | XRF (fusion) | - |
| 40 | 23,950 | 0,028 | 0,0 | 23,970 | 23,930 | ISO 17025 | XRF (fusion) | - |
| 41 | 24,150 | 0,354 | 0,6 | 24,400 | 23,900 | no accreditation | XRF (Pellet) info only | C |
| 42 | 24,600 | 0,000 | 1,8 | 24,600 | 24,600 | no accreditation | XRF (fusion) | - |
| 44 | 24,760 | 0,014 | 2,3 | 24,770 | 24,750 | no accreditation | XRF (fusion) | - |
| 45 | 24,200 | 0,028 | 0,7 | 24,180 | 24,220 | ISO 17025 | XRF (fusion) | - |
| 47 | 24,325 | 0,092 | 1,1 | 24,390 | 24,260 | ISO 17025 | XRF (fusion) | - |
| 48 | 23,400 | 0,283 | -1,6 | 23,600 | 23,200 | ISO 17025 | XRF (fusion) | C |
| 49 | 24,125 | 0,064 | 0,5 | 24,170 | 24,080 | no accreditation | XRF (fusion) | - |
| 50 | 24,050 | 0,014 | 0,3 | 24,040 | 24,060 | no accreditation | XRF (fusion) | - |
| 51 | 23,980 | 0,057 | 0,1 | 23,940 | 24,020 | no accreditation | XRF (fusion) | - |

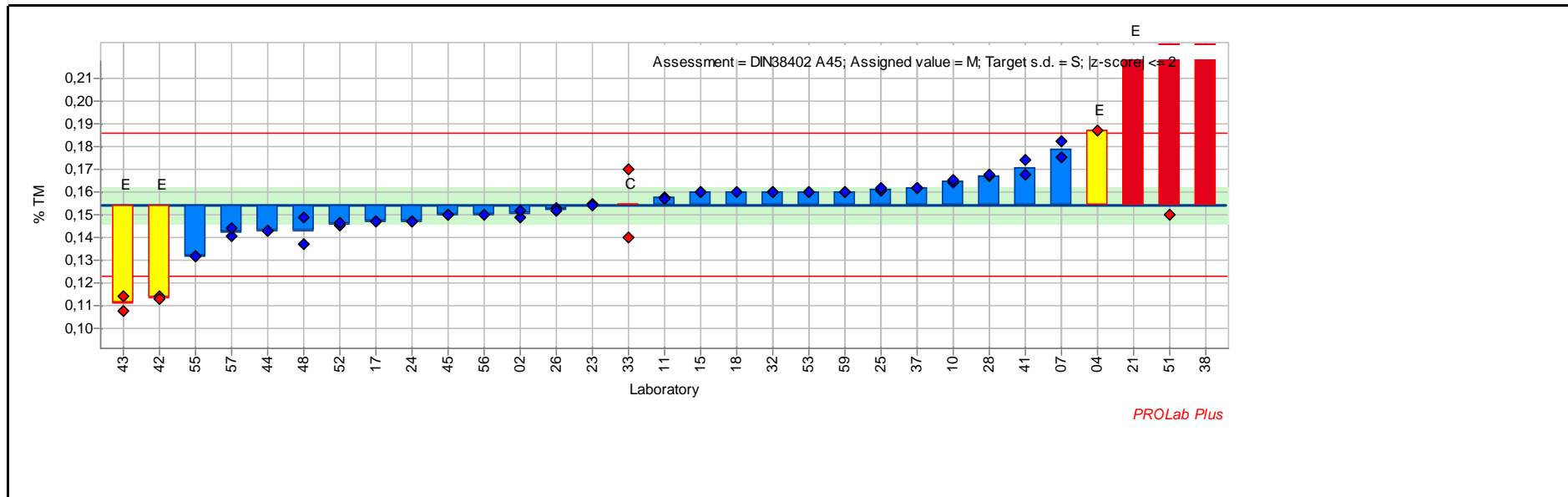
RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 52 | 18,535 | 0,163 | -15,5 | 18,420 | 18,650 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 23,400 | 0,057 | -1,6 | 23,360 | 23,440 | no accreditation | XRF (fusion) | - |
| 55 | 24,177 | 0,134 | 0,6 | 24,272 | 24,082 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 24,110 | | 0,4 | 24,110 | | no accreditation | XRF (fusion) | - |
| 57 | 24,041 | 0,042 | 0,2 | 24,071 | 24,011 | ISO 17025 | XRF (fusion) | - |
| 59 | 23,660 | 0,000 | -0,8 | 23,660 | 23,660 | no accreditation | XRF (fusion) | - |

RV118

E

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,016 % TM
Measurand: SrO **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,155 ± 0,008 % TM **Range of tolerance:** 0,123 - 0,186 % TM (|z-score| ≤ 2,0)
No. of laboratories: 26 **Sample:** DIN 38402 A45
Assigned value: 0,155 % TM (Empirical value) **Target s.d.:** 0,016 % TM (Empirical value)



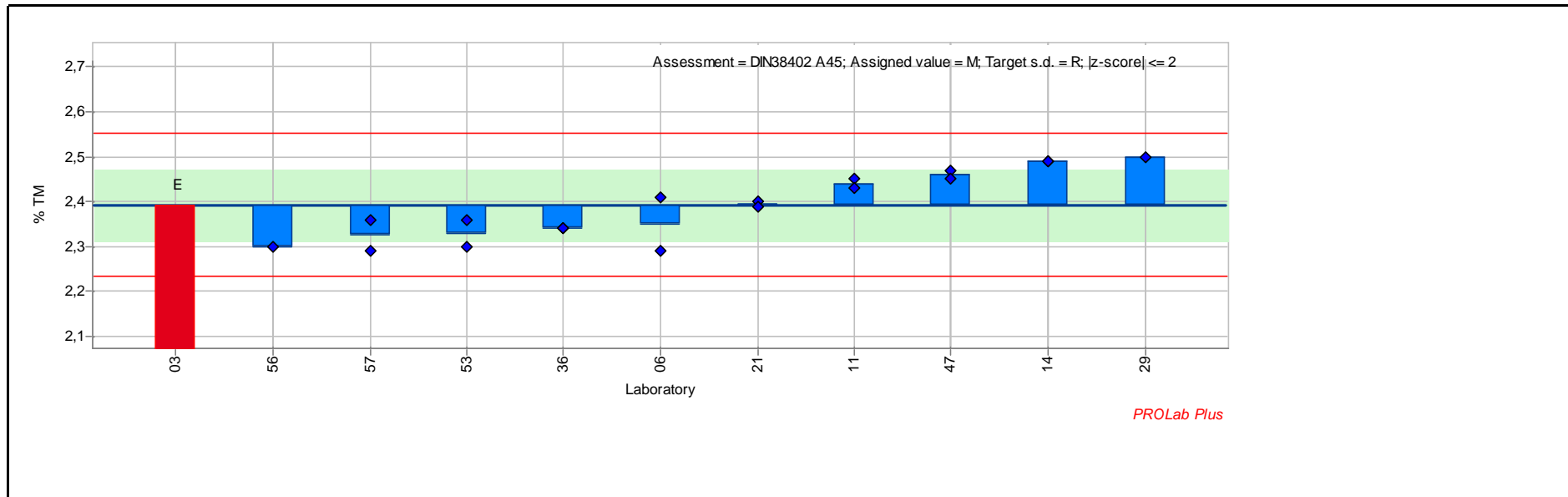
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 02 | 0,150 | 0,002 | -0,3 | 0,149 | 0,152 | ISO 17025 | XRF (fusion) | - |
| 04 | 0,187 | | 2,1 | 0,187 | 0,187 | ISO 17025 | ICP-OES | - |
| 07 | 0,179 | 0,005 | 1,5 | 0,175 | 0,182 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,165 | 0,001 | 0,6 | 0,164 | 0,166 | no accreditation | XRF (fusion) | - |
| 11 | 0,158 | 0,001 | 0,2 | 0,158 | 0,157 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 15 | 0,160 | 0,000 | 0,3 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |
| 17 | 0,147 | 0,000 | -0,5 | 0,147 | 0,147 | no accreditation | XRF (fusion) | - |
| 18 | 0,160 | | 0,3 | 0,160 | | no accreditation | XRF (fusion) | - |
| 21 | 0,222 | 0,001 | 4,3 | 0,221 | 0,223 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,154 | 0,001 | 0,0 | 0,155 | 0,154 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,147 | 0,000 | -0,5 | 0,147 | 0,147 | no accreditation | XRF (fusion) | - |
| 25 | 0,162 | 0,001 | 0,4 | 0,161 | 0,162 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,152 | 0,001 | -0,1 | 0,153 | 0,152 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,168 | 0,001 | 0,8 | 0,167 | 0,168 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,160 | 0,000 | 0,3 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |
| 33 | 0,155 | 0,021 | 0,0 | 0,170 | 0,140 | no accreditation | XRF (Pellet) info only | C |
| 37 | 0,162 | 0,000 | 0,5 | 0,162 | 0,162 | no accreditation | XRF (fusion) | - |
| 38 | 0,695 | | 34,1 | 0,695 | | ISO 17025 | ICP-OES | - |
| 41 | 0,171 | 0,004 | 1,0 | 0,174 | 0,168 | no accreditation | ICP-OES | C |
| 42 | 0,114 | 0,001 | -2,6 | 0,114 | 0,113 | no accreditation | XRF (fusion) | - |
| 43 | 0,111 | 0,005 | -2,7 | 0,108 | 0,115 | no accreditation | other | TXRF |
| 44 | 0,143 | 0,000 | -0,7 | 0,143 | 0,143 | no accreditation | XRF (fusion) | - |
| 45 | 0,150 | 0,000 | -0,3 | 0,150 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,143 | 0,008 | -0,7 | 0,137 | 0,149 | ISO 17025 | XRF (fusion) | C |
| 51 | 0,325 | 0,247 | 10,8 | 0,150 | 0,500 | no accreditation | XRF (fusion) | C |
| 52 | 0,146 | 0,001 | -0,5 | 0,145 | 0,146 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,160 | 0,000 | 0,3 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |
| 55 | 0,132 | 0,000 | -1,4 | 0,132 | 0,132 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,150 | | -0,3 | 0,150 | | no accreditation | XRF (fusion) | - |
| 57 | 0,143 | 0,002 | -0,8 | 0,141 | 0,144 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,160 | 0,000 | 0,3 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,105 % TM
Measurand: Sulfate expressed as SO3 **Repeat. s.d.:** 0,027 % TM
Mean ± U(Mean): 2,393 ± 0,079 % TM **Range of tolerance:** 2,233 - 2,553 % TM (|z-score| ≤ 2,0)
No. of laboratories: 11 **Sample:** DIN 38402 A45
Assigned value: 2,393 % TM (Empirical value) **Target s.d.:** 0,080 % TM (Reference value)



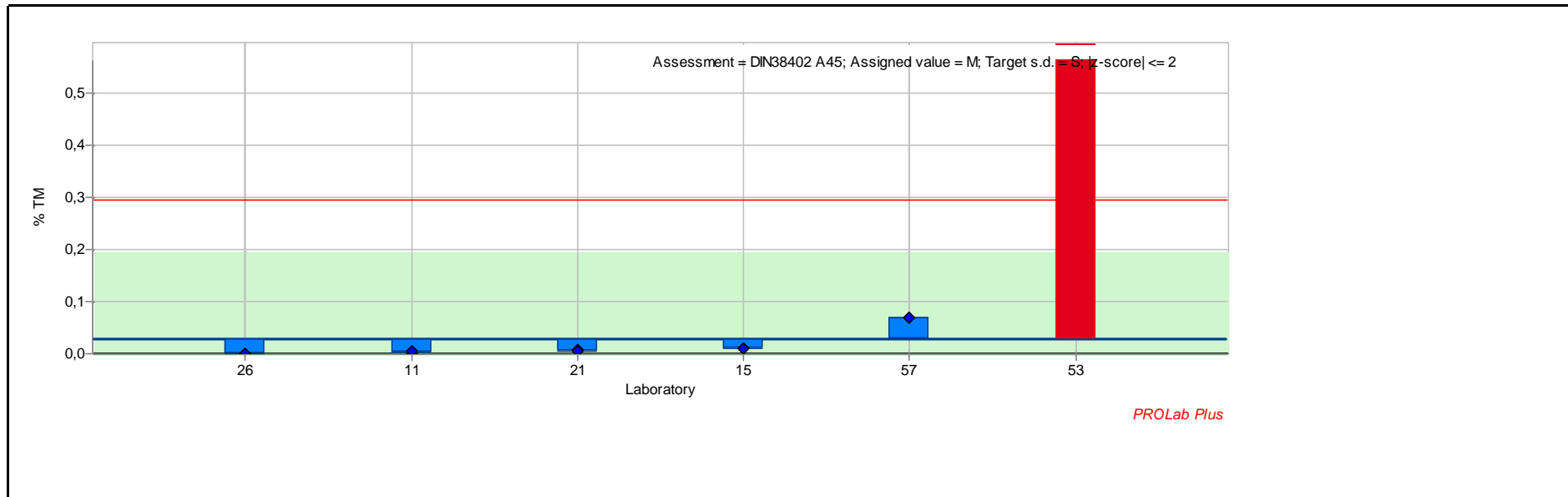
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 03 | 1,877 | 0,012 | -6,5 | 1,868 | 1,885 | no accreditation | Wet chemistry EN196-2 | - |
| 06 | 2,350 | 0,085 | -0,5 | 2,290 | 2,410 | no accreditation | Wet chemistry EN196-2 | - |
| 11 | 2,440 | 0,014 | 0,6 | 2,450 | 2,430 | no accreditation | Wet chemistry EN196-2 | - |
| 14 | 2,490 | 0,000 | 1,2 | 2,490 | 2,490 | no accreditation | Wet chemistry EN196-2 | - |
| 21 | 2,395 | 0,007 | 0,0 | 2,400 | 2,390 | ISO 17025 | Wet chemistry EN196-2 | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 29 | 2,500 | | 1,3 | 2,500 | | ISO 17025 | Wet chemistry EN196-2 | - |
| 36 | 2,340 | 0,000 | -0,7 | 2,340 | 2,340 | ISO 17025 | Wet chemistry EN196-2 | - |
| 47 | 2,460 | 0,014 | 0,8 | 2,470 | 2,450 | no accreditation | Wet chemistry EN196-2 | - |
| 53 | 2,330 | 0,042 | -0,8 | 2,360 | 2,300 | no accreditation | Wet chemistry EN196-2 | - |
| 56 | 2,300 | | -1,2 | 2,300 | | no accreditation | Wet chemistry EN196-2 | - |
| 57 | 2,325 | 0,049 | -0,9 | 2,360 | 2,290 | ISO 17025 | Wet chemistry EN196-2 | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.** 0,133 % TM
Measurand: Sulfide expressed as S **Repeat. s.d** 0,004 % TM
Mean ± U(Mean): 0,029 ± 0,166 % TM **Range of tolerance:** -0,238 - 0,295 % TM (|z-score| <= 2,0)
No. of laboratories: 4 **Sample** DIN 38402 A45 E
Assigned value 0,029 % TM (Empirical value) **Target s.d.** 0,133 % TM (Empirical value)



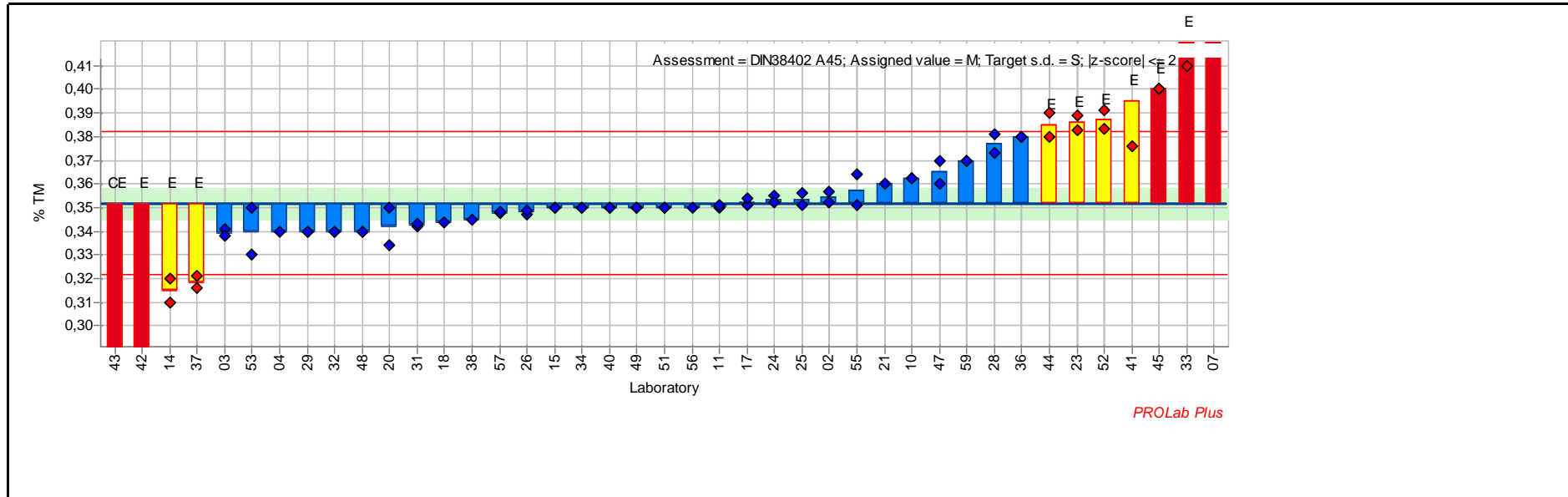
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------------|
| 11 | 0,002 | 0,003 | -0,2 | 0,000 | 0,004 | no accreditation | Standardless info only | - |
| 15 | 0,010 | 0,000 | -0,1 | 0,010 | 0,010 | no accreditation | Wet chemistry EN196-2 | - |
| 21 | 0,006 | 0,003 | -0,2 | 0,008 | 0,004 | ISO 17025 | Wet chemistry EN196-2 | - |
| 26 | 0,001 | 0,000 | -0,2 | 0,001 | 0,001 | ISO 17025 | other | DIN 38405-D27 |
| 53 | 0,765 | 0,007 | 5,5 | 0,770 | 0,760 | no accreditation | Wet chemistry EN196-2 | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|----------------|
| 57 | 0,070 | 0,000 | 0,3 | 0,070 | 0,070 | no accreditation | Wet chemistry EN196-2 | SO4 difference |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,015 % TM
Measurand: TiO2 **Repeat. s.d.:** 0,003 % TM
Mean ± U(Mean): 0,352 ± 0,006 % TM **Range of tolerance:** 0,322 - 0,382 % TM (|z-score| ≤ 2,0)
No. of laboratories: 36 **Sample:** DIN 38402 A45
Assigned value: 0,352 % TM (Empirical value) **Target s.d.:** 0,015 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,354 | 0,004 | 0,2 | 0,352 | 0,357 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,339 | 0,002 | -0,8 | 0,341 | 0,338 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,340 | | -0,8 | 0,340 | | ISO 17025 | ICP-OES | - |
| 07 | 0,628 | 0,009 | 18,2 | 0,622 | 0,634 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,363 | 0,000 | 0,7 | 0,362 | 0,363 | no accreditation | XRF (fusion) | - |

RV118

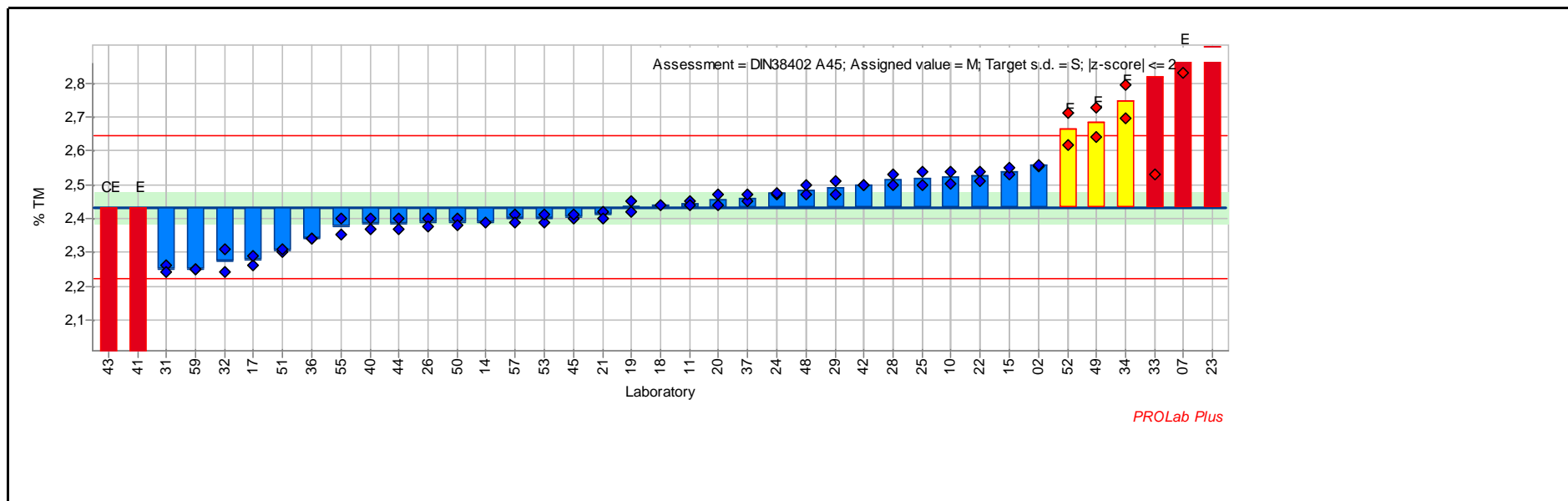
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,350 | 0,001 | -0,1 | 0,350 | 0,351 | no accreditation | XRF (fusion) | - |
| 14 | 0,315 | 0,007 | -2,4 | 0,320 | 0,310 | no accreditation | XRF (fusion) | - |
| 15 | 0,350 | 0,000 | -0,1 | 0,350 | 0,350 | no accreditation | XRF (fusion) | - |
| 17 | 0,352 | 0,002 | 0,0 | 0,351 | 0,354 | no accreditation | XRF (fusion) | - |
| 18 | 0,344 | | -0,5 | 0,344 | | no accreditation | XRF (fusion) | - |
| 20 | 0,342 | 0,011 | -0,7 | 0,334 | 0,350 | no accreditation | XRF (fusion) | - |
| 21 | 0,360 | 0,000 | 0,5 | 0,360 | 0,360 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,386 | 0,004 | 2,2 | 0,383 | 0,389 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,353 | 0,002 | 0,1 | 0,355 | 0,352 | no accreditation | XRF (fusion) | - |
| 25 | 0,353 | 0,004 | 0,1 | 0,356 | 0,351 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,348 | 0,001 | -0,3 | 0,347 | 0,349 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,377 | 0,006 | 1,7 | 0,381 | 0,373 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,340 | 0,000 | -0,8 | 0,340 | 0,340 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,343 | 0,001 | -0,6 | 0,342 | 0,343 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,340 | 0,000 | -0,8 | 0,340 | 0,340 | no accreditation | XRF (fusion) | - |
| 33 | 0,420 | 0,014 | 4,5 | 0,430 | 0,410 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,350 | 0,000 | -0,1 | 0,350 | 0,350 | no accreditation | XRF (fusion) | - |
| 36 | 0,380 | 0,000 | 1,8 | 0,380 | 0,380 | ISO 17025 | XRF (fusion) | - |
| 37 | 0,319 | 0,004 | -2,2 | 0,321 | 0,316 | no accreditation | XRF (fusion) | - |
| 38 | 0,345 | | -0,5 | 0,345 | | ISO 17025 | ICP-OES | - |
| 40 | 0,350 | 0,000 | -0,1 | 0,350 | 0,350 | ISO 17025 | XRF (fusion) | - |
| 41 | 0,395 | 0,027 | 2,8 | 0,414 | 0,376 | no accreditation | ICP-OES | C |
| 42 | 0,222 | 0,002 | -8,6 | 0,223 | 0,220 | no accreditation | XRF (fusion) | - |
| 43 | 0,184 | 0,048 | -11,0 | 0,219 | 0,150 | no accreditation | other | C, TXRF |
| 44 | 0,385 | 0,007 | 2,2 | 0,390 | 0,380 | no accreditation | XRF (fusion) | - |
| 45 | 0,400 | 0,000 | 3,2 | 0,400 | 0,400 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,365 | 0,007 | 0,9 | 0,370 | 0,360 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,340 | 0,000 | -0,8 | 0,340 | 0,340 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,350 | 0,000 | -0,1 | 0,350 | 0,350 | no accreditation | XRF (fusion) | - |
| 51 | 0,350 | 0,000 | -0,1 | 0,350 | 0,350 | no accreditation | XRF (fusion) | - |
| 52 | 0,387 | 0,006 | 2,3 | 0,391 | 0,383 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,340 | 0,014 | -0,8 | 0,350 | 0,330 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-----------------------|
| 55 | 0,357 | 0,009 | 0,4 | 0,351 | 0,364 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,350 | | -0,1 | 0,350 | | no accreditation | XRF (fusion) | - |
| 57 | 0,348 | 0,000 | -0,3 | 0,348 | 0,348 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,370 | 0,000 | 1,2 | 0,370 | 0,370 | no accreditation | XRF (fusion) | - |

RV118

| | | | |
|-----------------------------|--------------------------------------|----------------------------|---|
| Sample: | FLX-CRM 119 | Reprod. s.d.: | 0,106 % TM |
| Measurand: | Total S expressed as SO ₃ | Repeat. s.d.: | 0,029 % TM |
| Mean ± U(Mean): | 2,434 ± 0,046 % TM | Range of tolerance: | 2,221 - 2,646 % TM (z-score ≤ 2,0) |
| No. of laboratories: | 33 | Sample | DIN 38402 A45 BE |
| Assigned value | 2,434 % TM (Empirical value) | Target s.d. | 0,106 % TM (Empirical value) |



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 02 | 2,556 | 0,001 | 1,2 | 2,556 | 2,557 | ISO 17025 | XRF (fusion) | - |
| 07 | 2,870 | 0,057 | 4,1 | 2,830 | 2,910 | no accreditation | XRF (Pellet) info only | - |
| 10 | 2,521 | 0,025 | 0,8 | 2,539 | 2,503 | no accreditation | XRF (fusion) | - |
| 11 | 2,445 | 0,007 | 0,1 | 2,450 | 2,440 | no accreditation | XRF (fusion) | - |
| 14 | 2,390 | | -0,4 | 2,390 | | no accreditation | XRF (fusion) | - |

RV118

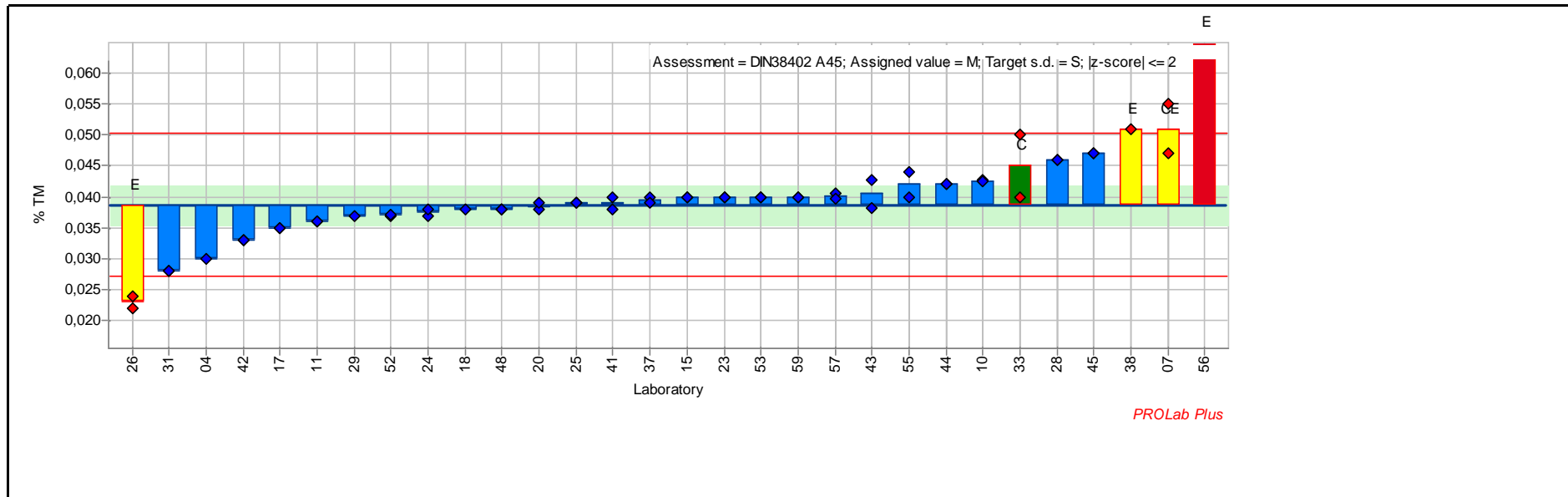
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|--------------------------|
| 15 | 2,540 | 0,014 | 1,0 | 2,530 | 2,550 | no accreditation | XRF (fusion) | - |
| 17 | 2,276 | 0,022 | -1,5 | 2,260 | 2,291 | no accreditation | XRF (fusion) | - |
| 18 | 2,438 | | 0,0 | 2,438 | | no accreditation | XRF (fusion) | - |
| 19 | 2,435 | 0,021 | 0,0 | 2,420 | 2,450 | no accreditation | XRF (fusion) | - |
| 20 | 2,456 | 0,023 | 0,2 | 2,440 | 2,472 | no accreditation | combustion | - |
| 21 | 2,410 | 0,014 | -0,2 | 2,420 | 2,400 | ISO 17025 | Wet chemistry EN196-2 | - |
| 22 | 2,525 | 0,021 | 0,9 | 2,540 | 2,510 | no accreditation | XRF (fusion) | - |
| 23 | 3,128 | 0,037 | 6,5 | 3,155 | 3,102 | ISO 17025 | XRF (Pellet) info only | - |
| 24 | 2,474 | 0,003 | 0,4 | 2,472 | 2,476 | no accreditation | XRF (fusion) | - |
| 25 | 2,520 | 0,028 | 0,8 | 2,500 | 2,540 | ISO 17025 | XRF (fusion) | - |
| 26 | 2,388 | 0,018 | -0,4 | 2,400 | 2,375 | ISO 17025 | combustion | - |
| 28 | 2,514 | 0,021 | 0,8 | 2,529 | 2,500 | ISO 17025 | XRF (fusion) | - |
| 29 | 2,490 | 0,028 | 0,5 | 2,470 | 2,510 | ISO 17025 | XRF (fusion) | - |
| 31 | 2,250 | 0,014 | -1,7 | 2,260 | 2,240 | ISO 17025 | combustion | - |
| 32 | 2,275 | 0,049 | -1,5 | 2,310 | 2,240 | no accreditation | XRF (fusion) | - |
| 33 | 2,820 | 0,410 | 3,6 | 3,110 | 2,530 | no accreditation | XRF (Pellet) info only | C |
| 34 | 2,747 | 0,071 | 2,9 | 2,797 | 2,697 | no accreditation | XRF (fusion) | - |
| 36 | 2,340 | 0,000 | -0,9 | 2,340 | 2,340 | no accreditation | other | SR3T gravimetric Bromine |
| 37 | 2,460 | 0,014 | 0,2 | 2,450 | 2,470 | no accreditation | XRF (fusion) | - |
| 40 | 2,385 | 0,021 | -0,5 | 2,400 | 2,370 | ISO 17025 | XRF (fusion) | - |
| 41 | 0,945 | 0,021 | -14,0 | 0,960 | 0,930 | no accreditation | combustion | - |
| 42 | 2,500 | 0,000 | 0,6 | 2,500 | 2,500 | no accreditation | XRF (fusion) | - |
| 43 | 0,832 | 0,294 | -15,1 | 1,040 | 0,623 | no accreditation | other | C, TXRF |
| 44 | 2,385 | 0,021 | -0,5 | 2,400 | 2,370 | no accreditation | XRF (fusion) | - |
| 45 | 2,405 | 0,007 | -0,3 | 2,400 | 2,410 | ISO 17025 | combustion | - |
| 48 | 2,485 | 0,021 | 0,5 | 2,470 | 2,500 | ISO 17025 | combustion | - |
| 49 | 2,685 | 0,064 | 2,4 | 2,730 | 2,640 | no accreditation | XRF (fusion) | - |
| 50 | 2,390 | 0,014 | -0,4 | 2,400 | 2,380 | no accreditation | XRF (fusion) | - |
| 51 | 2,305 | 0,007 | -1,2 | 2,300 | 2,310 | no accreditation | XRF (fusion) | - |
| 52 | 2,665 | 0,069 | 2,2 | 2,714 | 2,617 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 2,400 | 0,014 | -0,3 | 2,390 | 2,410 | no accreditation | XRF (fusion) | - |
| 55 | 2,375 | 0,033 | -0,5 | 2,399 | 2,352 | no accreditation | XRF (fusion) | Reconstitution Method |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|---------|
| 57 | 2,399 | 0,017 | -0,3 | 2,411 | 2,387 | ISO 17025 | XRF (fusion) | - |
| 59 | 2,250 | 0,000 | -1,7 | 2,250 | 2,250 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 119 **Reprod. s.d.:** 0,006 % TM
Measurand: ZnO **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,039 ± 0,003 % TM **Range of tolerance:** 0,027 - 0,050 % TM (|z-score| ≤ 2,0)
No. of laboratories: 23 **Sample:** DIN 38402 A45
Assigned value: 0,039 % TM (Empirical value) **Target s.d.:** 0,006 % TM (Empirical value)



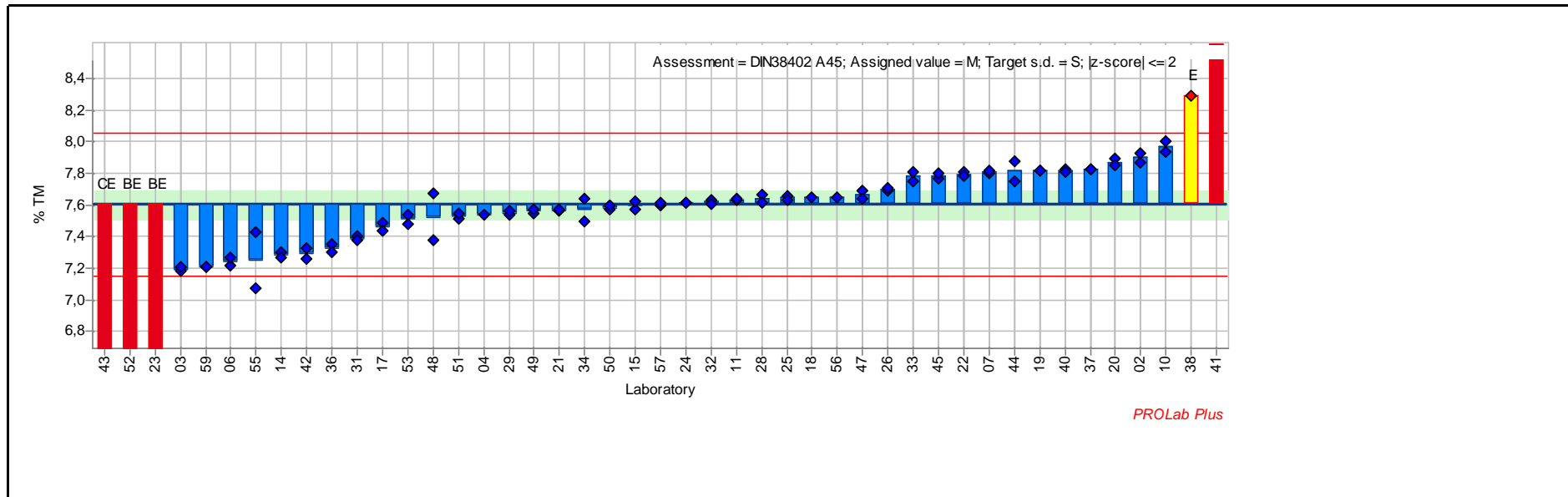
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 04 | 0,030 | | -1,5 | 0,030 | | ISO 17025 | ICP-OES | - |
| 07 | 0,051 | 0,006 | 2,1 | 0,047 | 0,055 | no accreditation | XRF (Pellet) info only | C |
| 10 | 0,043 | 0,000 | 0,7 | 0,043 | 0,043 | no accreditation | XRF (fusion) | - |
| 11 | 0,036 | 0,000 | -0,5 | 0,036 | 0,036 | no accreditation | XRF (fusion) | - |
| 15 | 0,040 | 0,000 | 0,2 | 0,040 | 0,040 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------------------------|
| 17 | 0,035 | 0,000 | -0,6 | 0,035 | 0,035 | no accreditation | XRF (fusion) | - |
| 18 | 0,038 | | -0,1 | 0,038 | | no accreditation | XRF (fusion) | - |
| 20 | 0,038 | 0,001 | 0,0 | 0,038 | 0,039 | no accreditation | XRF (Pellet) info only | - |
| 23 | 0,040 | 0,000 | 0,2 | 0,040 | 0,040 | ISO 17025 | XRF (Pellet) info only | - |
| 24 | 0,037 | 0,001 | -0,2 | 0,037 | 0,038 | no accreditation | XRF (fusion) | - |
| 25 | 0,039 | 0,000 | 0,0 | 0,039 | 0,039 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,023 | 0,001 | -2,7 | 0,024 | 0,022 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,046 | 0,000 | 1,3 | 0,046 | 0,046 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,037 | | -0,3 | 0,037 | | no accreditation | Standardless info only | fused bead trace |
| 31 | 0,028 | 0,000 | -1,9 | 0,028 | 0,028 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 33 | 0,045 | 0,007 | 1,1 | 0,050 | 0,040 | no accreditation | XRF (Pellet) info only | C |
| 37 | 0,040 | 0,001 | 0,1 | 0,040 | 0,039 | no accreditation | XRF (fusion) | - |
| 38 | 0,051 | | 2,1 | 0,051 | | ISO 17025 | ICP-OES | - |
| 41 | 0,039 | 0,001 | 0,0 | 0,040 | 0,038 | no accreditation | ICP-OES | - |
| 42 | 0,033 | 0,000 | -1,0 | 0,033 | 0,033 | no accreditation | XRF (fusion) | - |
| 43 | 0,041 | 0,003 | 0,3 | 0,038 | 0,043 | no accreditation | other | TXRF |
| 44 | 0,042 | 0,000 | 0,6 | 0,042 | 0,042 | no accreditation | XRF (fusion) | - |
| 45 | 0,047 | 0,000 | 1,4 | 0,047 | 0,047 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,038 | 0,000 | -0,1 | 0,038 | 0,038 | ISO 17025 | XRF (fusion) | - |
| 52 | 0,037 | 0,000 | -0,3 | 0,037 | 0,037 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,040 | 0,000 | 0,2 | 0,040 | 0,040 | no accreditation | XRF (fusion) | - |
| 55 | 0,042 | 0,003 | 0,6 | 0,040 | 0,044 | no accreditation | XRF (fusion) | C - Reconstitution Method |
| 56 | 0,065 | | 4,5 | 0,065 | | no accreditation | XRF (fusion) | - |
| 57 | 0,040 | 0,001 | 0,2 | 0,041 | 0,040 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,040 | 0,000 | 0,2 | 0,040 | 0,040 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.:** 0,227 % TM
Measurand: Al2O3 **Repeat. s.d.:** 0,036 % TM
Mean ± U(Mean): 7,602 ± 0,089 % TM **Range of tolerance:** 7,148 - 8,056 % TM (|z-score| <= 2,0)
No. of laboratories: 41 **Sample:** DIN 38402 A45
Assigned value: 7,602 % TM (Empirical value) **Target s.d.:** 0,227 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 7,901 | 0,043 | 1,3 | 7,870 | 7,931 | ISO 17025 | XRF (fusion) | - |
| 03 | 7,196 | 0,018 | -1,8 | 7,184 | 7,209 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 7,540 | | -0,3 | 7,540 | | ISO 17025 | ICP-OES | - |
| 06 | 7,245 | 0,035 | -1,6 | 7,220 | 7,270 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 7,810 | 0,014 | 0,9 | 7,800 | 7,820 | no accreditation | XRF (fusion) | - |

RV118

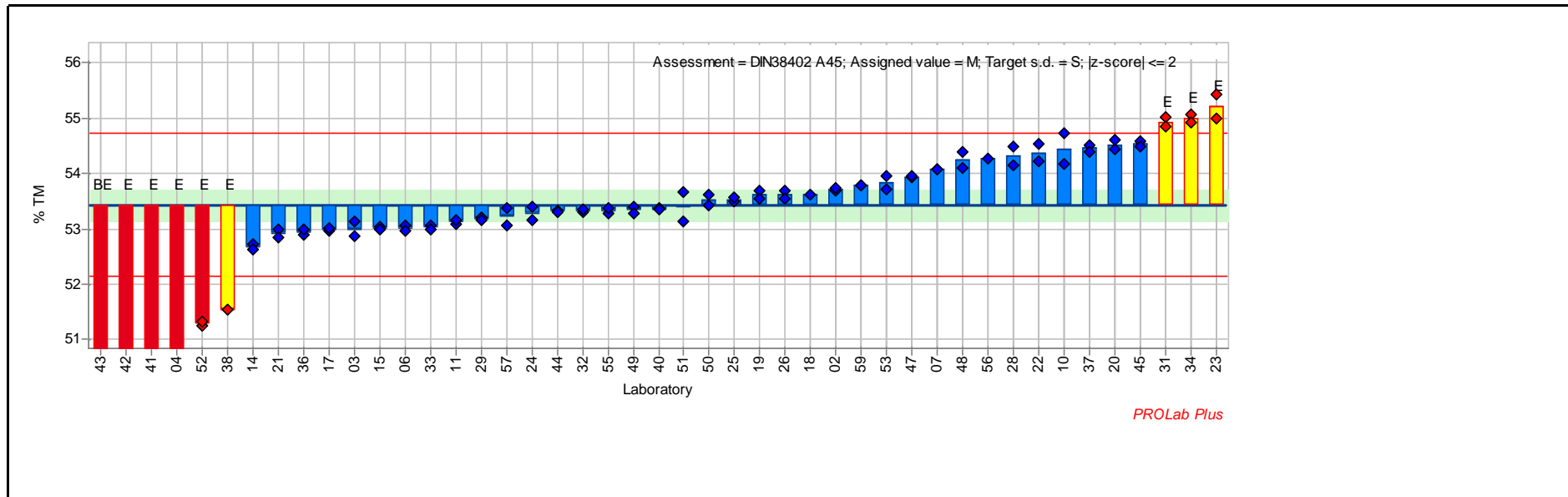
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 7,971 | 0,047 | 1,6 | 7,938 | 8,004 | no accreditation | XRF (fusion) | - |
| 11 | 7,635 | 0,007 | 0,1 | 7,630 | 7,640 | no accreditation | XRF (fusion) | - |
| 14 | 7,285 | 0,021 | -1,4 | 7,300 | 7,270 | no accreditation | XRF (fusion) | - |
| 15 | 7,595 | 0,035 | 0,0 | 7,570 | 7,620 | no accreditation | XRF (fusion) | - |
| 17 | 7,460 | 0,035 | -0,6 | 7,485 | 7,436 | no accreditation | XRF (fusion) | - |
| 18 | 7,650 | | 0,2 | 7,650 | | no accreditation | XRF (fusion) | - |
| 19 | 7,820 | 0,000 | 1,0 | 7,820 | 7,820 | no accreditation | XRF (fusion) | - |
| 20 | 7,870 | 0,029 | 1,2 | 7,890 | 7,849 | no accreditation | XRF (fusion) | - |
| 21 | 7,565 | 0,007 | -0,2 | 7,560 | 7,570 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 7,795 | 0,021 | 0,8 | 7,810 | 7,780 | no accreditation | XRF (fusion) | - |
| 23 | 6,564 | 0,088 | -4,6 | 6,502 | 6,626 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 7,615 | 0,006 | 0,1 | 7,611 | 7,619 | no accreditation | XRF (fusion) | - |
| 25 | 7,645 | 0,021 | 0,2 | 7,660 | 7,630 | ISO 17025 | XRF (fusion) | - |
| 26 | 7,701 | 0,008 | 0,4 | 7,695 | 7,707 | ISO 17025 | XRF (fusion) | - |
| 28 | 7,643 | 0,035 | 0,2 | 7,668 | 7,619 | ISO 17025 | XRF (fusion) | - |
| 29 | 7,550 | 0,014 | -0,2 | 7,540 | 7,560 | ISO 17025 | XRF (fusion) | - |
| 31 | 7,390 | 0,014 | -0,9 | 7,400 | 7,380 | ISO 17025 | XRF (fusion) | - |
| 32 | 7,620 | 0,014 | 0,1 | 7,630 | 7,610 | no accreditation | XRF (fusion) | - |
| 33 | 7,780 | 0,042 | 0,8 | 7,750 | 7,810 | no accreditation | XRF (Pellet) info only | - |
| 34 | 7,570 | 0,099 | -0,1 | 7,500 | 7,640 | no accreditation | XRF (fusion) | - |
| 36 | 7,325 | 0,035 | -1,2 | 7,350 | 7,300 | ISO 17025 | XRF (fusion) | - |
| 37 | 7,830 | 0,000 | 1,0 | 7,830 | 7,830 | no accreditation | XRF (fusion) | - |
| 38 | 8,290 | | 3,0 | 8,290 | | ISO 17025 | XRF (fusion) | - |
| 40 | 7,820 | 0,014 | 1,0 | 7,830 | 7,810 | ISO 17025 | XRF (fusion) | - |
| 41 | 11,270 | 0,580 | 16,2 | 11,680 | 10,860 | no accreditation | ICP-OES | C |
| 42 | 7,295 | 0,049 | -1,4 | 7,330 | 7,260 | no accreditation | XRF (fusion) | - |
| 43 | 1,260 | 0,296 | -27,9 | 1,051 | 1,469 | no accreditation | other | C, TXRF |
| 44 | 7,815 | 0,092 | 0,9 | 7,880 | 7,750 | no accreditation | XRF (fusion) | - |
| 45 | 7,785 | 0,021 | 0,8 | 7,770 | 7,800 | ISO 17025 | XRF (fusion) | - |
| 47 | 7,665 | 0,035 | 0,3 | 7,690 | 7,640 | ISO 17025 | XRF (fusion) | - |
| 48 | 7,525 | 0,205 | -0,3 | 7,670 | 7,380 | ISO 17025 | XRF (fusion) | C |
| 49 | 7,560 | 0,014 | -0,2 | 7,550 | 7,570 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|--------------------------|
| 50 | 7,585 | 0,021 | -0,1 | 7,570 | 7,600 | no accreditation | XRF (fusion) | - |
| 51 | 7,530 | 0,028 | -0,3 | 7,510 | 7,550 | no accreditation | XRF (fusion) | - |
| 52 | 5,309 | 0,002 | -10,1 | 5,307 | 5,310 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 7,510 | 0,042 | -0,4 | 7,480 | 7,540 | no accreditation | XRF (fusion) | - |
| 55 | 7,249 | 0,252 | -1,6 | 7,071 | 7,427 | no accreditation | XRF (fusion) | C, Reconstitution Method |
| 56 | 7,650 | | 0,2 | 7,650 | | no accreditation | XRF (fusion) | - |
| 57 | 7,608 | 0,016 | 0,0 | 7,596 | 7,619 | ISO 17025 | XRF (fusion) | - |
| 59 | 7,210 | 0,000 | -1,7 | 7,210 | 7,210 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.:** 0,649 % TM
Measurand: CaO **Repeat. s.d.:** 0,101 % TM
Mean ± U(Mean): 53,438 ± 0,278 % TM **Range of tolerance:** 52,139 - 54,737 % TM (|z-score| ≤ 2,0)
No. of laboratories: 34 **Sample:** DIN 38402 A45
Assigned value: 53,438 % TM (Empirical value) **Target s.d.:** 0,649 % TM (Empirical value)



PROLab Plus

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 53,716 | 0,045 | 0,4 | 53,685 | 53,748 | ISO 17025 | XRF (fusion) | - |
| 03 | 52,995 | 0,187 | -0,7 | 52,863 | 53,128 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 50,660 | | -4,3 | 50,660 | | ISO 17025 | ICP-OES | - |
| 06 | 53,020 | 0,071 | -0,6 | 53,070 | 52,970 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 54,080 | 0,014 | 1,0 | 54,070 | 54,090 | no accreditation | XRF (fusion) | - |

RV118

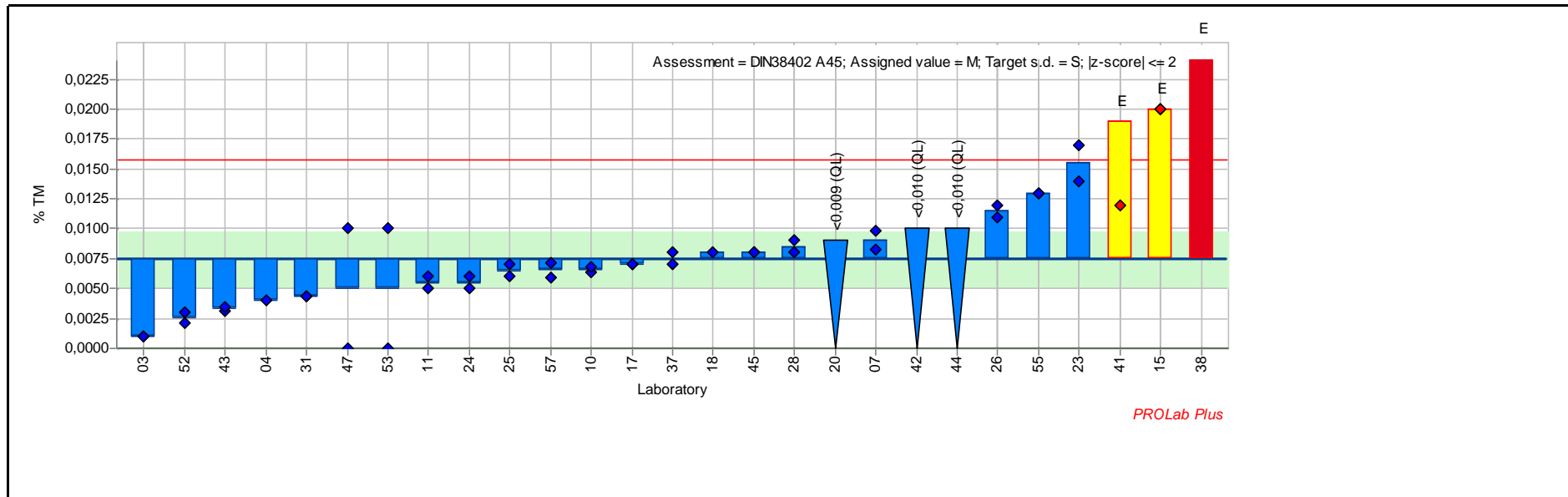
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 54,450 | 0,382 | 1,6 | 54,180 | 54,720 | no accreditation | XRF (fusion) | - |
| 11 | 53,125 | 0,049 | -0,5 | 53,090 | 53,160 | no accreditation | XRF (fusion) | - |
| 14 | 52,670 | 0,071 | -1,2 | 52,720 | 52,620 | no accreditation | XRF (fusion) | - |
| 15 | 53,015 | 0,049 | -0,7 | 53,050 | 52,980 | no accreditation | XRF (fusion) | - |
| 17 | 52,992 | 0,022 | -0,7 | 52,977 | 53,008 | no accreditation | XRF (fusion) | - |
| 18 | 53,620 | | 0,3 | 53,620 | | no accreditation | XRF (fusion) | - |
| 19 | 53,615 | 0,092 | 0,3 | 53,680 | 53,550 | no accreditation | XRF (fusion) | - |
| 20 | 54,525 | 0,134 | 1,7 | 54,430 | 54,620 | no accreditation | XRF (fusion) | - |
| 21 | 52,910 | 0,099 | -0,8 | 52,980 | 52,840 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 54,380 | 0,212 | 1,5 | 54,530 | 54,230 | no accreditation | XRF (fusion) | - |
| 23 | 55,210 | 0,311 | 2,7 | 54,990 | 55,430 | ISO 17025 | XRF (Pellet) info only | - |
| 24 | 53,287 | 0,171 | -0,2 | 53,408 | 53,166 | no accreditation | XRF (fusion) | - |
| 25 | 53,525 | 0,049 | 0,1 | 53,490 | 53,560 | ISO 17025 | XRF (fusion) | - |
| 26 | 53,617 | 0,097 | 0,3 | 53,686 | 53,549 | ISO 17025 | XRF (fusion) | - |
| 28 | 54,326 | 0,243 | 1,4 | 54,497 | 54,154 | ISO 17025 | XRF (fusion) | - |
| 29 | 53,185 | 0,049 | -0,4 | 53,220 | 53,150 | ISO 17025 | XRF (fusion) | - |
| 31 | 54,935 | 0,120 | 2,3 | 55,020 | 54,850 | ISO 17025 | XRF (fusion) | - |
| 32 | 53,330 | 0,028 | -0,2 | 53,310 | 53,350 | no accreditation | XRF (fusion) | - |
| 33 | 53,035 | 0,049 | -0,6 | 53,070 | 53,000 | no accreditation | XRF (Pellet) info only | - |
| 34 | 55,005 | 0,106 | 2,4 | 55,080 | 54,930 | no accreditation | XRF (fusion) | - |
| 36 | 52,950 | 0,071 | -0,8 | 52,900 | 53,000 | ISO 17025 | XRF (fusion) | - |
| 37 | 54,455 | 0,092 | 1,6 | 54,520 | 54,390 | no accreditation | XRF (fusion) | - |
| 38 | 51,550 | | -2,9 | 51,550 | | ISO 17025 | XRF (fusion) | - |
| 40 | 53,365 | 0,021 | -0,1 | 53,380 | 53,350 | ISO 17025 | XRF (fusion) | - |
| 41 | 46,810 | 5,317 | -10,2 | 43,050 | 50,570 | no accreditation | ICP-OES | C |
| 42 | 42,650 | 0,495 | -16,6 | 42,300 | 43,000 | no accreditation | XRF (fusion) | - |
| 43 | 23,915 | 0,632 | -45,5 | 24,362 | 23,468 | no accreditation | other | TXRF |
| 44 | 53,325 | 0,021 | -0,2 | 53,340 | 53,310 | no accreditation | XRF (fusion) | - |
| 45 | 54,540 | 0,057 | 1,7 | 54,580 | 54,500 | ISO 17025 | XRF (fusion) | - |
| 47 | 53,940 | 0,014 | 0,8 | 53,930 | 53,950 | ISO 17025 | XRF (fusion) | - |
| 48 | 54,250 | 0,212 | 1,3 | 54,100 | 54,400 | ISO 17025 | XRF (fusion) | - |
| 49 | 53,345 | 0,092 | -0,1 | 53,410 | 53,280 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 53,520 | 0,141 | 0,1 | 53,420 | 53,620 | no accreditation | XRF (fusion) | - |
| 51 | 53,405 | 0,375 | -0,1 | 53,140 | 53,670 | no accreditation | XRF (fusion) | - |
| 52 | 51,290 | 0,057 | -3,3 | 51,250 | 51,330 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 53,830 | 0,170 | 0,6 | 53,710 | 53,950 | no accreditation | XRF (fusion) | - |
| 55 | 53,331 | 0,061 | -0,2 | 53,288 | 53,374 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 54,280 | | 1,3 | 54,280 | | no accreditation | XRF (fusion) | - |
| 57 | 53,225 | 0,227 | -0,3 | 53,064 | 53,386 | ISO 17025 | XRF (fusion) | - |
| 59 | 53,790 | 0,000 | 0,5 | 53,790 | 53,790 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.:** 0,004 % TM
Measurand: Cr2O3 **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,007 ± 0,002 % TM **Range of tolerance:** -0,001 - 0,016 % TM (|z-score| ≤ 2,0)
No. of laboratories: 20 **Sample:** DIN 38402 A45
Assigned value: 0,007 % TM (Empirical value) **Target s.d.:** 0,004 % TM (Empirical value)



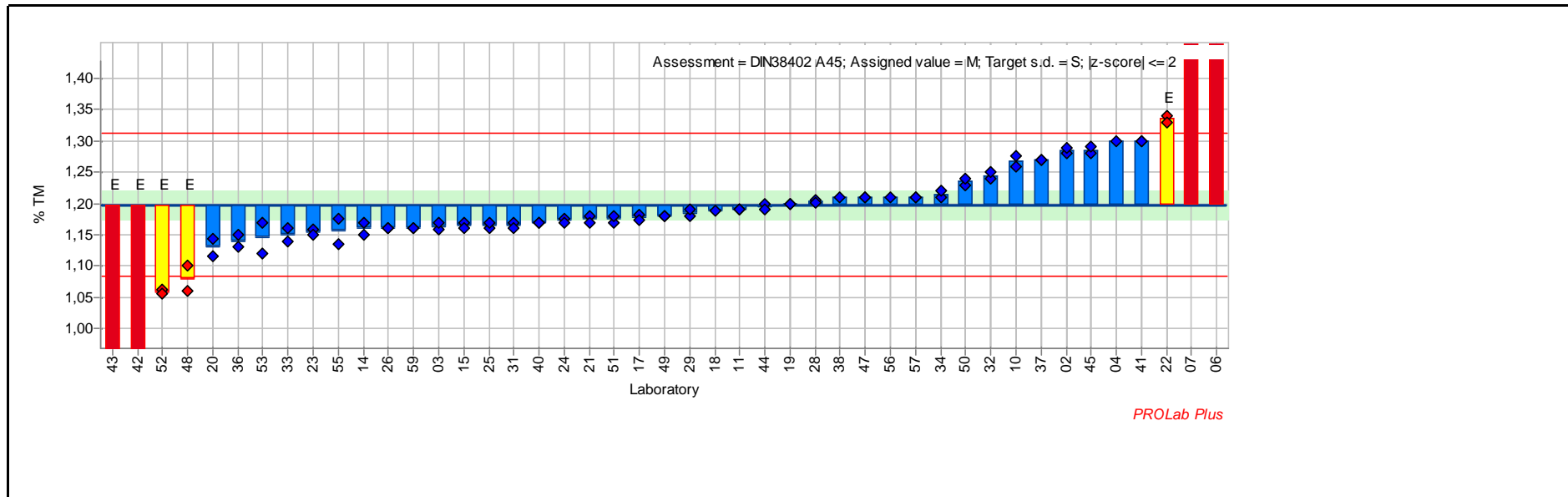
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 03 | 0,001 | 0,000 | -1,6 | 0,001 | 0,001 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,004 | | -0,8 | 0,004 | | ISO 17025 | ICP-OES | - |
| 07 | 0,009 | 0,001 | 0,4 | 0,008 | 0,010 | no accreditation | XRF (Pellet) info only | |
| 10 | 0,007 | 0,000 | -0,2 | 0,006 | 0,007 | no accreditation | XRF (fusion) | - |
| 11 | 0,005 | 0,001 | -0,5 | 0,006 | 0,005 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------------------|
| 15 | 0,020 | 0,000 | 3,0 | 0,020 | 0,020 | no accreditation | XRF (fusion) | - |
| 17 | 0,007 | 0,000 | -0,1 | 0,007 | 0,007 | no accreditation | XRF (fusion) | - |
| 18 | 0,008 | | 0,1 | 0,008 | | no accreditation | XRF (fusion) | - |
| 20 | | | | <0,009 | <0,009 | no accreditation | XRF (fusion) | - |
| 23 | 0,015 | 0,002 | 1,9 | 0,017 | 0,014 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,005 | 0,001 | -0,5 | 0,006 | 0,005 | no accreditation | XRF (fusion) | - |
| 25 | 0,007 | 0,001 | -0,2 | 0,006 | 0,007 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,011 | 0,001 | 1,0 | 0,011 | 0,012 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,009 | 0,001 | 0,2 | 0,009 | 0,008 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,004 | 0,000 | -0,7 | 0,004 | 0,004 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 33 | | | | | | no accreditation | XRF (Pellet) info only | - |
| 37 | 0,007 | 0,001 | 0,0 | 0,008 | 0,007 | no accreditation | XRF (fusion) | - |
| 38 | 0,025 | | 4,2 | 0,025 | | ISO 17025 | ICP-OES | - |
| 41 | 0,019 | 0,010 | 2,8 | 0,026 | 0,012 | no accreditation | ICP-OES | C |
| 42 | | | | <0,010 | <0,010 | no accreditation | XRF (fusion) | - |
| 43 | 0,003 | 0,000 | -1,0 | 0,003 | 0,004 | no accreditation | other | TXRF |
| 44 | | | | <0,010 | <0,010 | no accreditation | XRF (fusion) | - |
| 45 | 0,008 | 0,000 | 0,1 | 0,008 | 0,008 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,005 | 0,007 | -0,6 | 0,000 | 0,010 | ISO 17025 | XRF (fusion) | - |
| 52 | 0,003 | 0,001 | -1,2 | 0,003 | 0,002 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,005 | 0,007 | -0,6 | 0,000 | 0,010 | no accreditation | XRF (fusion) | - |
| 55 | 0,013 | 0,000 | 1,3 | 0,013 | 0,013 | no accreditation | XRF (fusion) | Reconstitution Method |
| 57 | 0,007 | 0,001 | -0,2 | 0,006 | 0,007 | ISO 17025 | XRF (fusion) | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.:** 0,057 % TM
Measurand: Fe2O3 **Repeat. s.d.:** 0,008 % TM
Mean ± U(Mean): 1,198 ± 0,022 % TM **Range of tolerance:** 1,083 - 1,313 % TM (|z-score| <= 2,0) E
No. of laboratories: 41 **Sample:** DIN 38402 A45
Assigned value: 1,198 % TM (Empirical value) **Target s.d.:** 0,057 % TM (Empirical value) E



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 1,284 | 0,006 | 1,5 | 1,280 | 1,289 | ISO 17025 | XRF (fusion) | - |
| 03 | 1,163 | 0,008 | -0,6 | 1,157 | 1,169 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 1,300 | | 1,8 | 1,300 | | ISO 17025 | ICP-OES | - |
| 06 | 1,670 | 0,014 | 8,2 | 1,680 | 1,660 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 1,525 | 0,021 | 5,7 | 1,540 | 1,510 | no accreditation | XRF (fusion) | - |

RV118

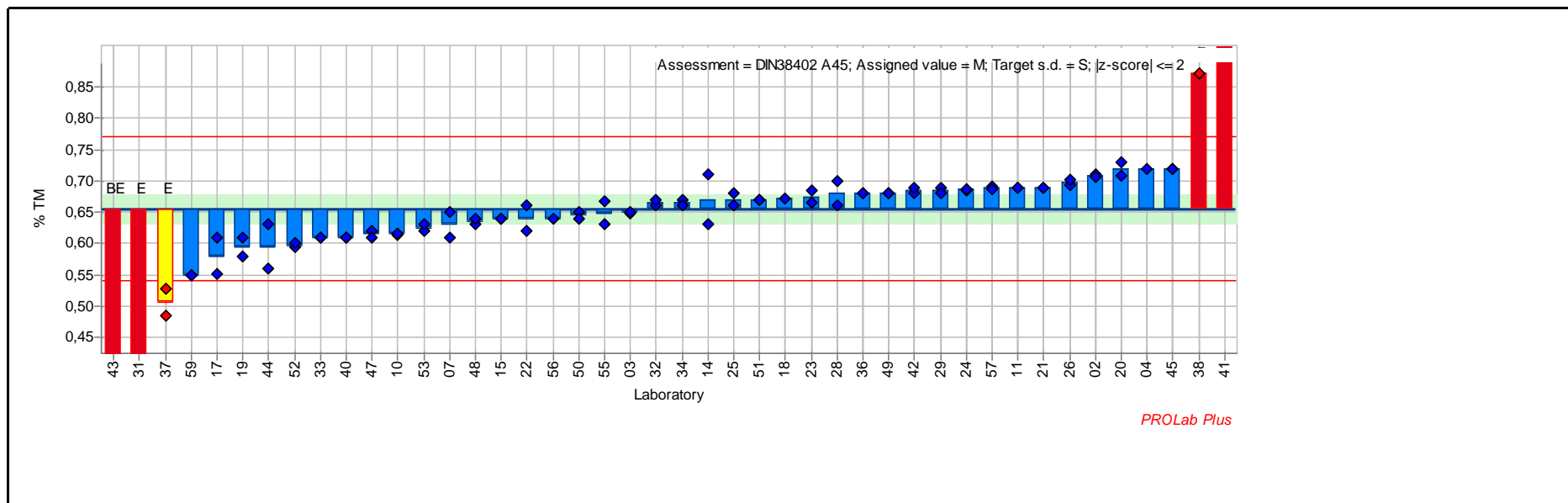
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 1,267 | 0,011 | 1,2 | 1,259 | 1,275 | no accreditation | XRF (fusion) | - |
| 11 | 1,190 | 0,000 | -0,1 | 1,190 | 1,190 | no accreditation | XRF (fusion) | - |
| 14 | 1,160 | 0,014 | -0,7 | 1,170 | 1,150 | no accreditation | XRF (fusion) | - |
| 15 | 1,165 | 0,007 | -0,6 | 1,170 | 1,160 | no accreditation | XRF (fusion) | - |
| 17 | 1,179 | 0,006 | -0,3 | 1,183 | 1,174 | no accreditation | XRF (fusion) | - |
| 18 | 1,188 | | -0,2 | 1,188 | | no accreditation | XRF (fusion) | - |
| 19 | 1,200 | 0,000 | 0,0 | 1,200 | 1,200 | no accreditation | XRF (fusion) | - |
| 20 | 1,130 | 0,020 | -1,2 | 1,144 | 1,116 | no accreditation | XRF (fusion) | - |
| 21 | 1,175 | 0,007 | -0,4 | 1,180 | 1,170 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 1,335 | 0,007 | 2,4 | 1,340 | 1,330 | no accreditation | XRF (fusion) | - |
| 23 | 1,155 | 0,005 | -0,8 | 1,158 | 1,151 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 1,172 | 0,005 | -0,4 | 1,176 | 1,169 | no accreditation | XRF (fusion) | - |
| 25 | 1,165 | 0,007 | -0,6 | 1,160 | 1,170 | ISO 17025 | XRF (fusion) | - |
| 26 | 1,160 | 0,000 | -0,7 | 1,160 | 1,160 | ISO 17025 | XRF (fusion) | - |
| 28 | 1,203 | 0,003 | 0,1 | 1,205 | 1,201 | ISO 17025 | XRF (fusion) | - |
| 29 | 1,185 | 0,007 | -0,2 | 1,180 | 1,190 | ISO 17025 | XRF (fusion) | - |
| 31 | 1,165 | 0,007 | -0,6 | 1,170 | 1,160 | ISO 17025 | XRF (fusion) | - |
| 32 | 1,245 | 0,007 | 0,8 | 1,240 | 1,250 | no accreditation | XRF (fusion) | - |
| 33 | 1,150 | 0,014 | -0,8 | 1,160 | 1,140 | no accreditation | XRF (Pellet) info only | - |
| 34 | 1,215 | 0,007 | 0,3 | 1,210 | 1,220 | no accreditation | XRF (fusion) | - |
| 36 | 1,140 | 0,014 | -1,0 | 1,130 | 1,150 | ISO 17025 | XRF (fusion) | - |
| 37 | 1,270 | 0,000 | 1,3 | 1,270 | 1,270 | no accreditation | XRF (fusion) | - |
| 38 | 1,210 | | 0,2 | 1,210 | | ISO 17025 | XRF (fusion) | - |
| 40 | 1,170 | 0,000 | -0,5 | 1,170 | 1,170 | ISO 17025 | XRF (fusion) | - |
| 41 | 1,300 | 0,000 | 1,8 | 1,300 | 1,300 | no accreditation | ICP-OES | - |
| 42 | 0,742 | 0,016 | -8,0 | 0,730 | 0,753 | no accreditation | XRF (fusion) | - |
| 43 | 0,715 | 0,010 | -8,4 | 0,708 | 0,722 | no accreditation | other | TXRF |
| 44 | 1,195 | 0,007 | -0,1 | 1,200 | 1,190 | no accreditation | XRF (fusion) | - |
| 45 | 1,285 | 0,007 | 1,5 | 1,280 | 1,290 | ISO 17025 | XRF (fusion) | - |
| 47 | 1,210 | 0,000 | 0,2 | 1,210 | 1,210 | ISO 17025 | XRF (fusion) | - |
| 48 | 1,080 | 0,028 | -2,1 | 1,100 | 1,060 | ISO 17025 | XRF (fusion) | - |
| 49 | 1,180 | 0,000 | -0,3 | 1,180 | 1,180 | no accreditation | XRF (fusion) | - |

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| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 1,235 | 0,007 | 0,6 | 1,230 | 1,240 | no accreditation | XRF (fusion) | - |
| 51 | 1,175 | 0,007 | -0,4 | 1,170 | 1,180 | no accreditation | XRF (fusion) | - |
| 52 | 1,059 | 0,004 | -2,4 | 1,062 | 1,056 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 1,145 | 0,035 | -0,9 | 1,170 | 1,120 | no accreditation | XRF (fusion) | - |
| 55 | 1,156 | 0,028 | -0,7 | 1,136 | 1,176 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 1,210 | | 0,2 | 1,210 | | no accreditation | XRF (fusion) | - |
| 57 | 1,210 | 0,000 | 0,2 | 1,210 | 1,210 | ISO 17025 | XRF (fusion) | - |
| 59 | 1,160 | 0,000 | -0,7 | 1,160 | 1,160 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.:** 0,058 % TM
Measurand: K2O **Repeat. s.d.:** 0,012 % TM
Mean ± U(Mean): 0,656 ± 0,023 % TM **Range of tolerance:** 0,540 - 0,771 % TM (|z-score| ≤ 2,0)
No. of laboratories: 39 **Sample:** DIN 38402 A45
Assigned value: 0,656 % TM (Empirical value) **Target s.d.:** 0,058 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-------------|
| 02 | 0,709 | 0,003 | 0,9 | 0,711 | 0,707 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,650 | 0,002 | -0,1 | 0,648 | 0,651 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,720 | | 1,1 | 0,720 | | ISO 17025 | ICP-OES | - |
| 07 | 0,630 | 0,028 | -0,4 | 0,610 | 0,650 | no accreditation | XRF (fusion) | - |
| 10 | 0,615 | 0,002 | -0,7 | 0,614 | 0,617 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,690 | 0,000 | 0,6 | 0,690 | 0,690 | no accreditation | XRF (fusion) | - |
| 14 | 0,670 | 0,057 | 0,2 | 0,710 | 0,630 | no accreditation | XRF (fusion) | - |
| 15 | 0,640 | 0,000 | -0,3 | 0,640 | 0,640 | no accreditation | XRF (fusion) | - |
| 17 | 0,580 | 0,041 | -1,3 | 0,551 | 0,609 | no accreditation | XRF (fusion) | - |
| 18 | 0,672 | | 0,3 | 0,672 | | no accreditation | XRF (fusion) | - |
| 19 | 0,595 | 0,021 | -1,0 | 0,610 | 0,580 | no accreditation | XRF (fusion) | - |
| 20 | 0,719 | 0,016 | 1,1 | 0,708 | 0,730 | no accreditation | ICP-OES | - |
| 21 | 0,690 | 0,000 | 0,6 | 0,690 | 0,690 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,640 | 0,028 | -0,3 | 0,660 | 0,620 | no accreditation | XRF (fusion) | - |
| 23 | 0,675 | 0,013 | 0,3 | 0,666 | 0,684 | ISO 17025 | XRF (Pellet) info only | - |
| 24 | 0,686 | 0,001 | 0,5 | 0,685 | 0,687 | no accreditation | XRF (fusion) | - |
| 25 | 0,670 | 0,014 | 0,2 | 0,680 | 0,660 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,697 | 0,006 | 0,7 | 0,693 | 0,701 | ISO 17025 | ICP-OES | - |
| 28 | 0,679 | 0,028 | 0,4 | 0,699 | 0,660 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,685 | 0,007 | 0,5 | 0,690 | 0,680 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,398 | 0,012 | -4,4 | 0,390 | 0,407 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,665 | 0,007 | 0,2 | 0,660 | 0,670 | no accreditation | XRF (fusion) | - |
| 33 | 0,610 | 0,000 | -0,8 | 0,610 | 0,610 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,665 | 0,007 | 0,2 | 0,670 | 0,660 | no accreditation | XRF (fusion) | - |
| 36 | 0,680 | 0,000 | 0,4 | 0,680 | 0,680 | no accreditation | other | AAS |
| 37 | 0,506 | 0,030 | -2,6 | 0,527 | 0,485 | no accreditation | XRF (fusion) | - |
| 38 | 0,872 | | 3,7 | 0,872 | | ISO 17025 | ICP-OES | - |
| 40 | 0,610 | 0,000 | -0,8 | 0,610 | 0,610 | ISO 17025 | XRF (fusion) | - |
| 41 | 1,740 | 0,184 | 18,8 | 1,610 | 1,870 | no accreditation | ICP-OES | C |
| 42 | 0,684 | 0,006 | 0,5 | 0,680 | 0,688 | no accreditation | XRF (fusion) | - |
| 43 | 0,334 | 0,018 | -5,6 | 0,321 | 0,347 | no accreditation | other | TXRF |
| 44 | 0,595 | 0,049 | -1,0 | 0,630 | 0,560 | no accreditation | XRF (fusion) | - |
| 45 | 0,720 | 0,000 | 1,1 | 0,720 | 0,720 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,615 | 0,007 | -0,7 | 0,620 | 0,610 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,635 | 0,007 | -0,4 | 0,630 | 0,640 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,680 | 0,000 | 0,4 | 0,680 | 0,680 | no accreditation | XRF (fusion) | - |
| 50 | 0,645 | 0,007 | -0,2 | 0,650 | 0,640 | no accreditation | XRF (fusion) | - |

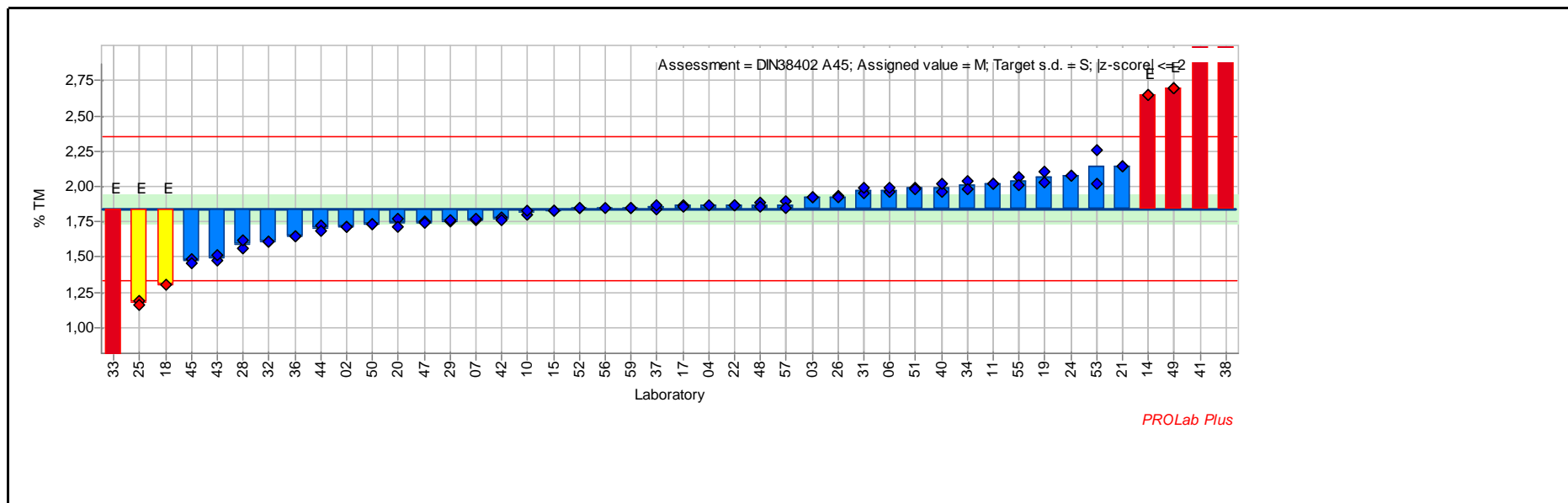
RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 51 | 0,670 | 0,000 | 0,2 | 0,670 | 0,670 | no accreditation | XRF (fusion) | - |
| 52 | 0,597 | 0,004 | -1,0 | 0,594 | 0,600 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,625 | 0,007 | -0,5 | 0,620 | 0,630 | no accreditation | XRF (fusion) | - |
| 55 | 0,649 | 0,025 | -0,1 | 0,667 | 0,631 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,640 | | -0,3 | 0,640 | | no accreditation | XRF (fusion) | - |
| 57 | 0,690 | 0,002 | 0,6 | 0,691 | 0,688 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,550 | 0,000 | -1,8 | 0,550 | 0,550 | no accreditation | XRF (fusion) | - |

RV118

E

| | | | |
|-----------------------------|------------------------------|----------------------------|--------------------------------------|
| Sample: | FLX-CRM 120 | Reprod. s.d.: | 0,256 % TM |
| Measurand: | LOI (1h @ 950°C) observed | Repeat. s.d.: | 0,027 % TM |
| Mean ± U(Mean): | 1,842 ± 0,097 % TM | Range of tolerance: | 1,329 - 2,355 % TM (z-score ≤ 2,0) |
| No. of laboratories: | 44 | Sample: | DIN 38402 A45 |
| Assigned value | 1,842 % TM (Empirical value) | Target s.d.: | 0,256 % TM (Empirical value) |



PROLab Plus

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 02 | 1,710 | 0,000 | -0,5 | 1,710 | 1,710 | ISO 17025 | 1h@950°C | - |
| 03 | 1,920 | 0,000 | 0,3 | 1,920 | 1,920 | no accreditation | Wet chemistry EN196-2 | - |
| 04 | 1,870 | | 0,1 | 1,870 | | ISO 17025 | 1h@950°C | - |
| 06 | 1,975 | 0,021 | 0,5 | 1,960 | 1,990 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 1,765 | 0,007 | -0,3 | 1,760 | 1,770 | no accreditation | 1h@950°C | - |

RV118

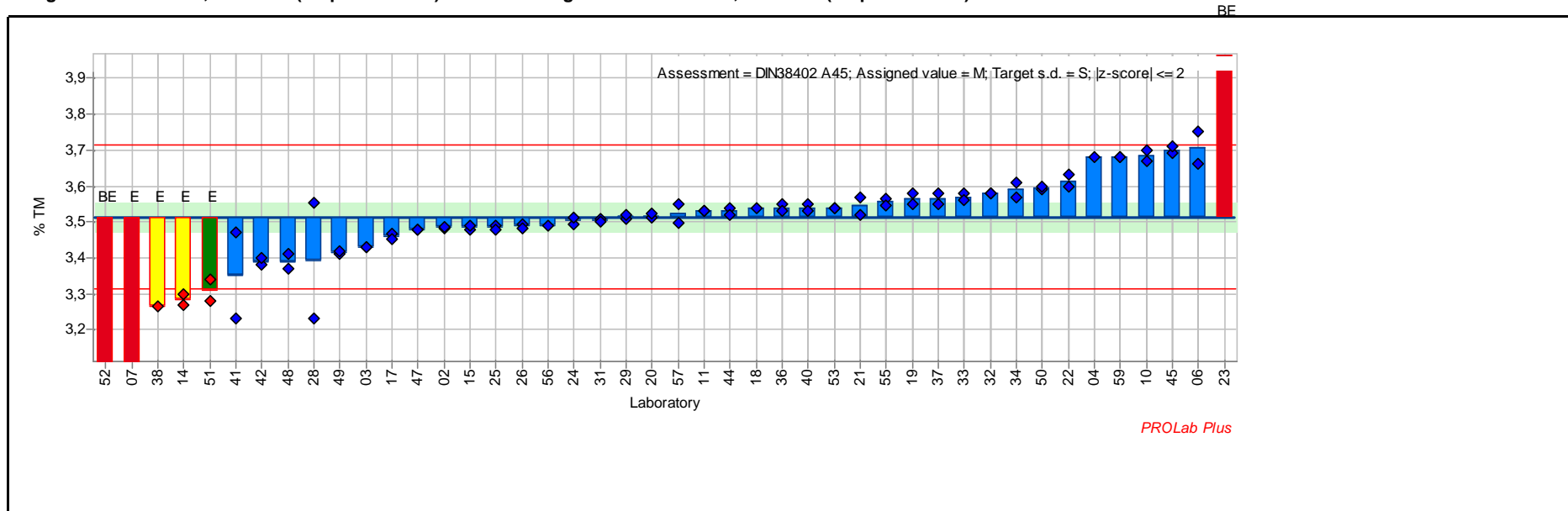
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|--------------------|
| 10 | 1,815 | 0,021 | -0,1 | 1,800 | 1,830 | no accreditation | XRF (fusion) | - |
| 11 | 2,020 | 0,000 | 0,7 | 2,020 | 2,020 | no accreditation | Wet chemistry EN196-2 | - |
| 14 | 2,650 | 0,000 | 3,2 | 2,650 | 2,650 | no accreditation | 1h@950°C | corr. EN 196-2 |
| 15 | 1,830 | 0,000 | 0,0 | 1,830 | 1,830 | no accreditation | 1h@950°C | - |
| 17 | 1,863 | 0,006 | 0,1 | 1,867 | 1,859 | no accreditation | 1h@950°C | - |
| 18 | 1,300 | | -2,1 | 1,300 | | no accreditation | 1h@950°C | - |
| 19 | 2,065 | 0,049 | 0,9 | 2,030 | 2,100 | no accreditation | 1h@950°C | - |
| 20 | 1,740 | 0,042 | -0,4 | 1,770 | 1,710 | no accreditation | 1h@950°C | - |
| 21 | 2,140 | 0,000 | 1,2 | 2,140 | 2,140 | ISO 17025 | Wet chemistry EN196-2 | - |
| 22 | 1,870 | 0,000 | 0,1 | 1,870 | 1,870 | no accreditation | 1h@950°C | - |
| 24 | 2,072 | 0,000 | 0,9 | 2,072 | 2,072 | no accreditation | 1h@950°C | - |
| 25 | 1,175 | 0,021 | -2,6 | 1,190 | 1,160 | ISO 17025 | 1h@950°C | - |
| 26 | 1,925 | 0,007 | 0,3 | 1,930 | 1,920 | ISO 17025 | 1h@950°C | - |
| 28 | 1,590 | 0,042 | -1,0 | 1,560 | 1,620 | ISO 17025 | 1h@950°C | - |
| 29 | 1,755 | 0,007 | -0,3 | 1,750 | 1,760 | ISO 17025 | 1h@950°C | due to S oxidation |
| 31 | 1,970 | 0,028 | 0,5 | 1,950 | 1,990 | no accreditation | 1h@950°C | - |
| 32 | 1,610 | 0,000 | -0,9 | 1,610 | 1,610 | no accreditation | XRF (fusion) | - |
| 33 | 0,780 | 0,042 | -4,1 | 0,810 | 0,750 | no accreditation | 1h@950°C | - |
| 34 | 2,010 | 0,042 | 0,7 | 2,040 | 1,980 | no accreditation | 1h@950°C | - |
| 36 | 1,650 | 0,000 | -0,7 | 1,650 | 1,650 | ISO 17025 | 1h@950°C | - |
| 37 | 1,855 | 0,021 | 0,1 | 1,840 | 1,870 | no accreditation | 1h@950°C | - |
| 38 | 13,780 | | 46,6 | 13,780 | | no accreditation | 1h@950°C | - |
| 40 | 1,990 | 0,042 | 0,6 | 1,960 | 2,020 | ISO 17025 | XRF (fusion) | - |
| 41 | 4,935 | 0,106 | 12,1 | 4,860 | 5,010 | no accreditation | 1h@950°C | C |
| 42 | 1,770 | 0,014 | -0,3 | 1,780 | 1,760 | no accreditation | 1h@950°C | - |
| 43 | 1,490 | 0,028 | -1,4 | 1,470 | 1,510 | no accreditation | 1h@950°C | - |
| 44 | 1,700 | 0,028 | -0,6 | 1,720 | 1,680 | no accreditation | 1h@950°C | - |
| 45 | 1,470 | 0,014 | -1,5 | 1,480 | 1,460 | ISO 17025 | 1h@950°C | - |
| 47 | 1,745 | 0,007 | -0,4 | 1,750 | 1,740 | no accreditation | 1h@950°C | - |
| 48 | 1,870 | 0,014 | 0,1 | 1,880 | 1,860 | ISO 17025 | 1h@950°C | - |
| 49 | 2,700 | 0,000 | 3,3 | 2,700 | 2,700 | no accreditation | combustion | - |
| 50 | 1,730 | 0,000 | -0,4 | 1,730 | 1,730 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-----------------------|
| 51 | 1,985 | 0,007 | 0,6 | 1,990 | 1,980 | ISO 17025 | XRF (fusion) | - |
| 52 | 1,850 | 0,000 | 0,0 | 1,850 | 1,850 | no accreditation | 1h@950°C | - |
| 53 | 2,140 | 0,170 | 1,2 | 2,260 | 2,020 | no accreditation | 1h@950°C | C |
| 55 | 2,037 | 0,035 | 0,8 | 2,062 | 2,012 | no accreditation | 1h@950°C | Reconstitution Method |
| 56 | 1,850 | | 0,0 | 1,850 | | no accreditation | 1h@950°C | - |
| 57 | 1,870 | 0,028 | 0,1 | 1,890 | 1,850 | ISO 17025 | 1h@950°C | - |
| 59 | 1,850 | 0,000 | 0,0 | 1,850 | 1,850 | no accreditation | 1h@950°C | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.** 0,100 % TM
Measurand: MgO **Repeat. s.d.** 0,019 % TM
Mean ± U(Mean): 3,514 ± 0,039 % TM **Range of tolerance:** 3,313 - 3,715 % TM (|z-score| <= 2,0)
No. of laboratories: 41 **Sample** DIN 38402 A45
Assigned value 3,514 % TM (Empirical value) **Target s.d.** 0,100 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 3,485 | 0,003 | -0,3 | 3,483 | 3,487 | ISO 17025 | XRF (fusion) | - |
| 03 | 3,430 | 0,001 | -0,8 | 3,429 | 3,432 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 3,680 | | 1,7 | 3,680 | | ISO 17025 | ICP-OES | - |
| 06 | 3,705 | 0,064 | 1,9 | 3,750 | 3,660 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 2,945 | 0,021 | -5,7 | 2,930 | 2,960 | no accreditation | XRF (fusion) | - |

RV118

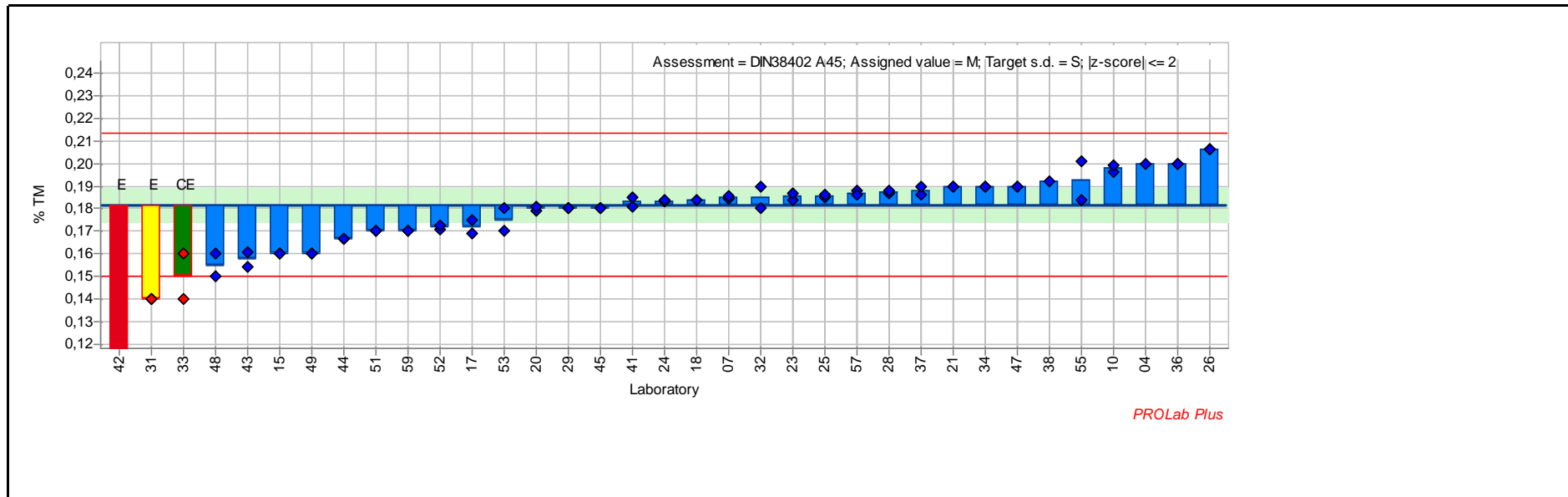
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 3,684 | 0,022 | 1,7 | 3,669 | 3,700 | no accreditation | XRF (fusion) | - |
| 11 | 3,530 | 0,000 | 0,2 | 3,530 | 3,530 | no accreditation | XRF (fusion) | - |
| 14 | 3,285 | 0,021 | -2,3 | 3,300 | 3,270 | no accreditation | XRF (fusion) | - |
| 15 | 3,485 | 0,007 | -0,3 | 3,480 | 3,490 | no accreditation | XRF (fusion) | - |
| 17 | 3,460 | 0,011 | -0,5 | 3,467 | 3,452 | no accreditation | XRF (fusion) | - |
| 18 | 3,537 | | 0,2 | 3,537 | | no accreditation | XRF (fusion) | - |
| 19 | 3,565 | 0,021 | 0,5 | 3,580 | 3,550 | no accreditation | XRF (fusion) | - |
| 20 | 3,517 | 0,008 | 0,0 | 3,511 | 3,523 | no accreditation | XRF (fusion) | - |
| 21 | 3,545 | 0,035 | 0,3 | 3,570 | 3,520 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 3,615 | 0,021 | 1,0 | 3,630 | 3,600 | no accreditation | XRF (fusion) | - |
| 23 | 4,027 | 0,023 | 5,1 | 4,011 | 4,043 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 3,505 | 0,013 | -0,1 | 3,495 | 3,514 | no accreditation | XRF (fusion) | - |
| 25 | 3,485 | 0,007 | -0,3 | 3,490 | 3,480 | ISO 17025 | XRF (fusion) | - |
| 26 | 3,488 | 0,007 | -0,3 | 3,493 | 3,483 | ISO 17025 | XRF (fusion) | - |
| 28 | 3,394 | 0,228 | -1,2 | 3,555 | 3,232 | ISO 17025 | XRF (fusion) | C |
| 29 | 3,515 | 0,007 | 0,0 | 3,510 | 3,520 | ISO 17025 | XRF (fusion) | - |
| 31 | 3,505 | 0,007 | -0,1 | 3,510 | 3,500 | ISO 17025 | XRF (fusion) | - |
| 32 | 3,580 | 0,000 | 0,7 | 3,580 | 3,580 | no accreditation | XRF (fusion) | - |
| 33 | 3,570 | 0,014 | 0,6 | 3,580 | 3,560 | no accreditation | XRF (Pellet) info only | - |
| 34 | 3,590 | 0,028 | 0,8 | 3,570 | 3,610 | no accreditation | XRF (fusion) | - |
| 36 | 3,540 | 0,014 | 0,3 | 3,550 | 3,530 | ISO 17025 | XRF (fusion) | - |
| 37 | 3,565 | 0,021 | 0,5 | 3,550 | 3,580 | no accreditation | XRF (fusion) | - |
| 38 | 3,265 | | -2,5 | 3,265 | | ISO 17025 | XRF (fusion) | - |
| 40 | 3,540 | 0,014 | 0,3 | 3,550 | 3,530 | ISO 17025 | XRF (fusion) | - |
| 41 | 3,350 | 0,170 | -1,6 | 3,230 | 3,470 | no accreditation | ICP-OES | C |
| 42 | 3,390 | 0,014 | -1,2 | 3,380 | 3,400 | no accreditation | XRF (fusion) | - |
| 44 | 3,530 | 0,014 | 0,2 | 3,540 | 3,520 | no accreditation | XRF (fusion) | - |
| 45 | 3,700 | 0,014 | 1,9 | 3,690 | 3,710 | ISO 17025 | XRF (fusion) | - |
| 47 | 3,480 | 0,000 | -0,3 | 3,480 | 3,480 | ISO 17025 | XRF (fusion) | - |
| 48 | 3,390 | 0,028 | -1,2 | 3,370 | 3,410 | ISO 17025 | XRF (fusion) | - |
| 49 | 3,415 | 0,007 | -1,0 | 3,410 | 3,420 | no accreditation | XRF (fusion) | - |
| 50 | 3,595 | 0,007 | 0,8 | 3,590 | 3,600 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 51 | 3,310 | 0,042 | -2,0 | 3,280 | 3,340 | no accreditation | XRF (fusion) | - |
| 52 | 2,816 | 0,020 | -6,9 | 2,802 | 2,830 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 3,540 | 0,000 | 0,3 | 3,540 | 3,540 | no accreditation | XRF (fusion) | - |
| 55 | 3,556 | 0,013 | 0,4 | 3,565 | 3,547 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 3,490 | | -0,2 | 3,490 | | no accreditation | XRF (fusion) | - |
| 57 | 3,524 | 0,039 | 0,1 | 3,496 | 3,551 | ISO 17025 | XRF (fusion) | - |
| 59 | 3,680 | 0,000 | 1,7 | 3,680 | 3,680 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.:** 0,016 % TM
Measurand: Mn2O3 **Repeat. s.d.:** 0,002 % TM
Mean ± U(Mean): 0,182 ± 0,007 % TM **Range of tolerance:** 0,150 - 0,213 % TM (|z-score| ≤ 2,0)
No. of laboratories: 30 **Sample:** DIN 38402 A45
Assigned value: 0,182 % TM (Empirical value) **Target s.d.:** 0,016 % TM (Empirical value)



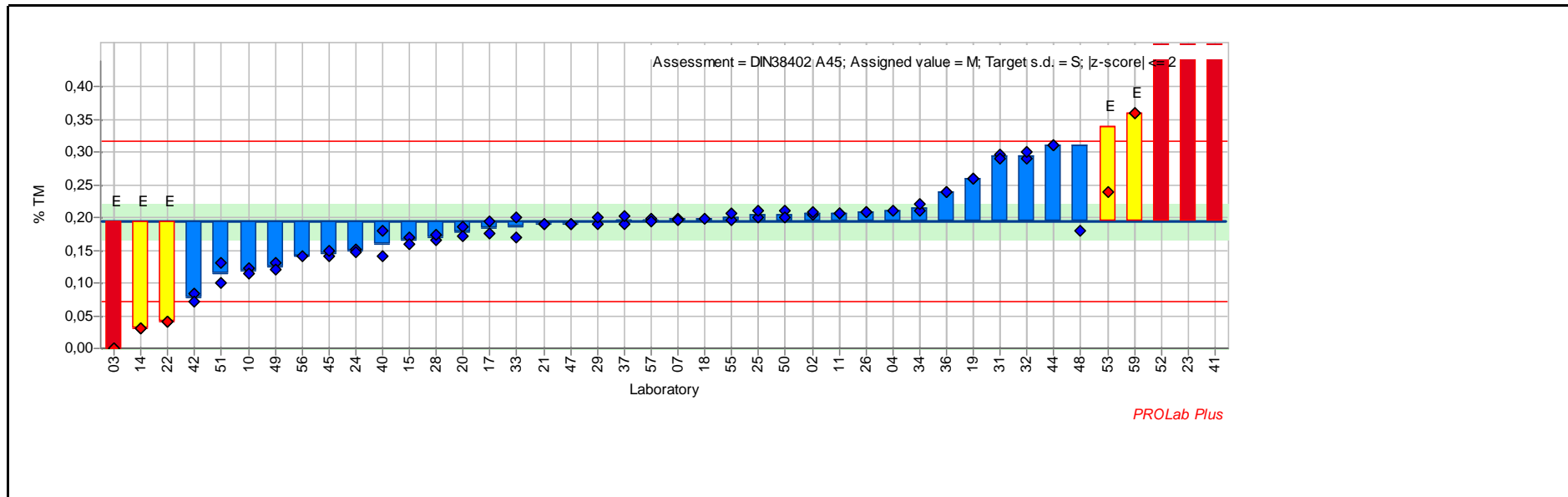
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 04 | 0,200 | | 1,2 | 0,200 | | ISO 17025 | ICP-OES | - |
| 07 | 0,185 | 0,001 | 0,2 | 0,184 | 0,185 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,198 | 0,002 | 1,0 | 0,196 | 0,199 | no accreditation | XRF (fusion) | - |
| 14 | | | | | | | | - |
| 15 | 0,160 | 0,000 | -1,4 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|--------------------------|
| 17 | 0,172 | 0,004 | -0,6 | 0,169 | 0,175 | no accreditation | XRF (fusion) | - |
| 18 | 0,184 | | 0,1 | 0,184 | | no accreditation | XRF (fusion) | - |
| 20 | 0,180 | 0,001 | -0,1 | 0,179 | 0,181 | no accreditation | XRF (fusion) | - |
| 21 | 0,190 | 0,000 | 0,5 | 0,190 | 0,190 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,185 | 0,002 | 0,2 | 0,184 | 0,187 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,183 | 0,001 | 0,1 | 0,183 | 0,184 | no accreditation | XRF (fusion) | - |
| 25 | 0,185 | 0,001 | 0,2 | 0,185 | 0,186 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,206 | 0,000 | 1,5 | 0,206 | 0,206 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,188 | 0,001 | 0,4 | 0,187 | 0,188 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,180 | 0,000 | -0,1 | 0,180 | 0,180 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,140 | 0,000 | -2,6 | 0,140 | 0,140 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 32 | 0,185 | 0,007 | 0,2 | 0,180 | 0,190 | no accreditation | XRF (fusion) | - |
| 33 | 0,150 | 0,014 | -2,0 | 0,140 | 0,160 | no accreditation | XRF (Pellet) info only | C |
| 34 | 0,190 | 0,000 | 0,5 | 0,190 | 0,190 | no accreditation | XRF (fusion) | - |
| 36 | 0,200 | 0,000 | 1,2 | 0,200 | 0,200 | ISO 17025 | XRF (fusion) | - |
| 37 | 0,188 | 0,003 | 0,4 | 0,186 | 0,190 | no accreditation | XRF (fusion) | - |
| 38 | 0,192 | | 0,6 | 0,192 | | ISO 17025 | ICP-OES | - |
| 41 | 0,183 | 0,003 | 0,1 | 0,181 | 0,185 | no accreditation | ICP-OES | - |
| 42 | 0,098 | 0,001 | -5,3 | 0,097 | 0,099 | no accreditation | XRF (fusion) | - |
| 43 | 0,158 | 0,005 | -1,5 | 0,154 | 0,161 | no accreditation | other | TXRF |
| 44 | 0,167 | 0,000 | -0,9 | 0,167 | 0,167 | no accreditation | XRF (fusion) | calc. from MnO |
| 45 | 0,180 | 0,000 | -0,1 | 0,180 | 0,180 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,190 | 0,000 | 0,5 | 0,190 | 0,190 | no accreditation | XRF (fusion) | - |
| 48 | 0,155 | 0,007 | -1,7 | 0,160 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,160 | 0,000 | -1,4 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |
| 51 | 0,170 | 0,000 | -0,7 | 0,170 | 0,170 | no accreditation | XRF (fusion) | - |
| 52 | 0,172 | 0,001 | -0,6 | 0,171 | 0,173 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,175 | 0,007 | -0,4 | 0,170 | 0,180 | no accreditation | XRF (fusion) | - |
| 55 | 0,193 | 0,012 | 0,7 | 0,184 | 0,201 | no accreditation | XRF (fusion) | C, Reconstitution Method |
| 57 | 0,187 | 0,001 | 0,3 | 0,188 | 0,186 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,170 | 0,000 | -0,7 | 0,170 | 0,170 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.:** 0,061 % TM
Measurand: Na2O **Repeat. s.d.:** 0,008 % TM
Mean ± U(Mean): 0,194 ± 0,026 % TM **Range of tolerance:** 0,072 - 0,317 % TM (|z-score| ≤ 2,0)
No. of laboratories: 35 **Sample:** DIN 38402 A45
Assigned value: 0,194 % TM (Empirical value) **Target s.d.:** 0,061 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,206 | 0,003 | 0,2 | 0,204 | 0,208 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,001 | 0,000 | -3,2 | 0,001 | 0,001 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,210 | | 0,3 | 0,210 | | ISO 17025 | ICP-OES | - |
| 07 | 0,197 | 0,001 | 0,1 | 0,198 | 0,197 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,118 | 0,005 | -1,2 | 0,122 | 0,115 | no accreditation | XRF (fusion) | - |

RV118

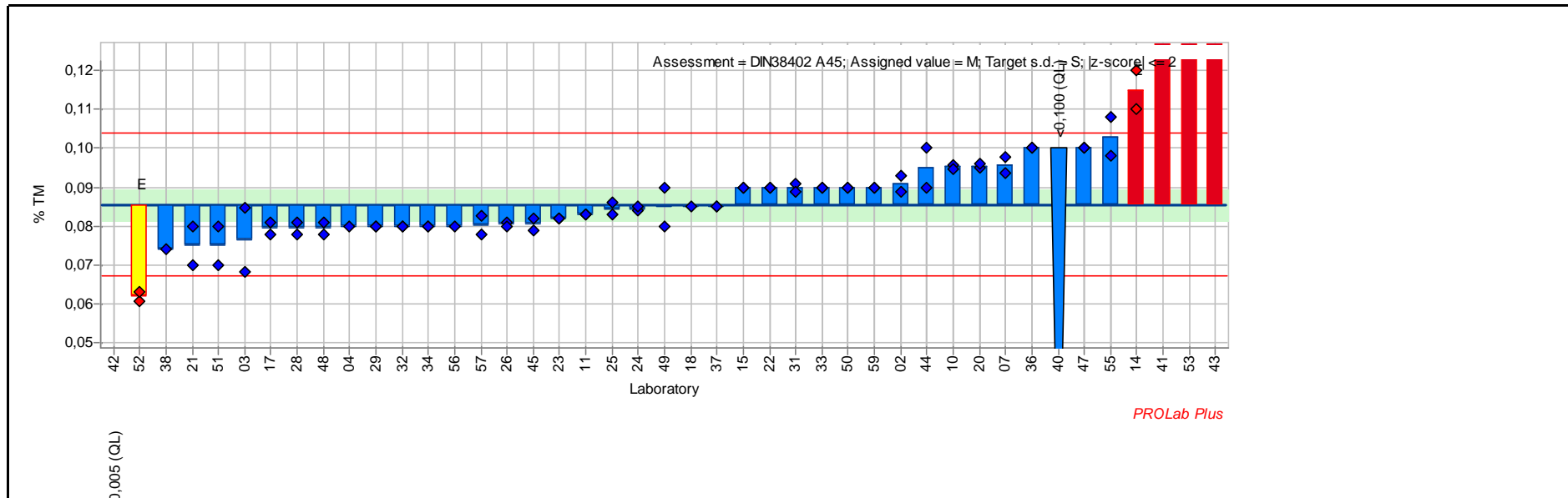
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,206 | 0,001 | 0,2 | 0,206 | 0,207 | no accreditation | XRF (fusion) | - |
| 14 | 0,030 | 0,000 | -2,7 | 0,030 | 0,030 | no accreditation | other | EDXRF fusion |
| 15 | 0,165 | 0,007 | -0,5 | 0,170 | 0,160 | no accreditation | XRF (fusion) | - |
| 17 | 0,184 | 0,013 | -0,2 | 0,194 | 0,175 | no accreditation | XRF (fusion) | - |
| 18 | 0,198 | | 0,1 | 0,198 | | no accreditation | XRF (fusion) | - |
| 19 | 0,260 | 0,000 | 1,1 | 0,260 | 0,260 | no accreditation | XRF (fusion) | - |
| 20 | 0,178 | 0,009 | -0,3 | 0,185 | 0,172 | no accreditation | ICP-OES | - |
| 21 | 0,190 | 0,000 | -0,1 | 0,190 | 0,190 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,040 | 0,000 | -2,5 | 0,040 | 0,040 | no accreditation | XRF (fusion) | - |
| 23 | 2,648 | 0,099 | 40,1 | 2,578 | 2,718 | ISO 17025 | XRF (Pellet) info only | C |
| 24 | 0,150 | 0,003 | -0,7 | 0,152 | 0,148 | no accreditation | XRF (fusion) | - |
| 25 | 0,205 | 0,007 | 0,2 | 0,200 | 0,210 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,208 | 0,000 | 0,2 | 0,208 | 0,208 | ISO 17025 | ICP-OES | - |
| 28 | 0,169 | 0,005 | -0,4 | 0,166 | 0,173 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,195 | 0,007 | 0,0 | 0,190 | 0,200 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,293 | 0,005 | 1,6 | 0,297 | 0,290 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,295 | 0,007 | 1,6 | 0,290 | 0,300 | no accreditation | XRF (fusion) | - |
| 33 | 0,185 | 0,021 | -0,2 | 0,200 | 0,170 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,215 | 0,007 | 0,3 | 0,210 | 0,220 | no accreditation | XRF (fusion) | - |
| 36 | 0,240 | 0,000 | 0,7 | 0,240 | 0,240 | no accreditation | other | AAS |
| 37 | 0,196 | 0,009 | 0,0 | 0,189 | 0,202 | no accreditation | XRF (fusion) | - |
| 40 | 0,160 | 0,028 | -0,6 | 0,140 | 0,180 | no accreditation | other | AAS |
| 41 | 6,015 | 0,841 | 95,1 | 5,420 | 6,610 | no accreditation | ICP-OES | C |
| 42 | 0,077 | 0,009 | -1,9 | 0,084 | 0,071 | no accreditation | XRF (fusion) | - |
| 44 | 0,310 | 0,000 | 1,9 | 0,310 | 0,310 | no accreditation | XRF (fusion) | - |
| 45 | 0,145 | 0,007 | -0,8 | 0,140 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,190 | 0,000 | -0,1 | 0,190 | 0,190 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,310 | 0,184 | 1,9 | 0,180 | 0,440 | ISO 17025 | XRF (fusion) | C |
| 49 | 0,125 | 0,007 | -1,1 | 0,130 | 0,120 | no accreditation | XRF (fusion) | - |
| 50 | 0,205 | 0,007 | 0,2 | 0,210 | 0,200 | no accreditation | XRF (fusion) | - |
| 51 | 0,115 | 0,021 | -1,3 | 0,100 | 0,130 | no accreditation | XRF (fusion) | - |
| 52 | 2,027 | 0,025 | 29,9 | 2,010 | 2,045 | no accreditation | XRF (Pellet) info only | EDRFA |

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| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|---------|
| 53 | 0,340 | 0,141 | 2,4 | 0,440 | 0,240 | no accreditation | XRF (fusion) | C |
| 55 | 0,201 | 0,007 | 0,1 | 0,196 | 0,206 | no accreditation | XRF (fusion) | - |
| 56 | 0,140 | | -0,9 | 0,140 | | no accreditation | XRF (fusion) | - |
| 57 | 0,196 | 0,003 | 0,0 | 0,197 | 0,194 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,360 | 0,000 | 2,7 | 0,360 | 0,360 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.:** 0,009 % TM
Measurand: P2O5 **Repeat. s.d.:** 0,002 % TM
Mean ± U(Mean): 0,086 ± 0,004 % TM **Range of tolerance:** 0,067 - 0,104 % TM (|z-score| ≤ 2,0) BE
No. of laboratories: 35 **Sample:** DIN 38402 A45
Assigned value: 0,086 % TM (Empirical value) **Target s.d.:** 0,009 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,091 | 0,003 | 0,6 | 0,089 | 0,093 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,076 | 0,012 | -1,0 | 0,068 | 0,085 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,080 | | -0,6 | 0,080 | | ISO 17025 | ICP-OES | - |
| 07 | 0,096 | 0,003 | 1,1 | 0,094 | 0,098 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,095 | 0,001 | 1,0 | 0,096 | 0,095 | no accreditation | XRF (fusion) | - |

RV118

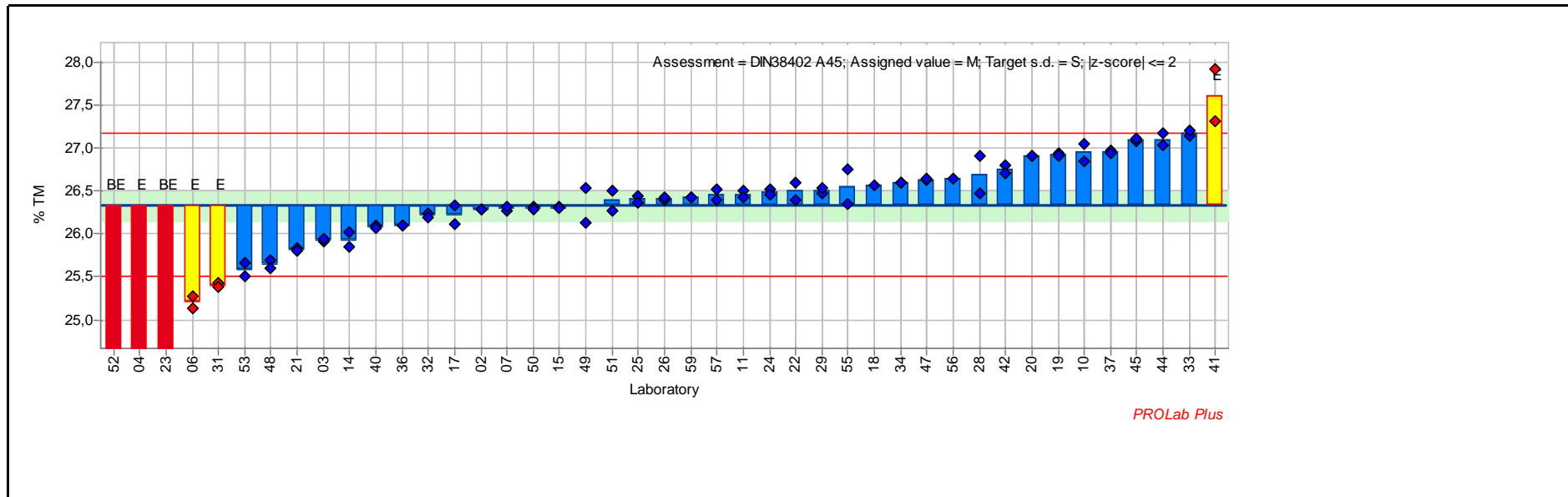
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,083 | 0,000 | -0,3 | 0,083 | 0,083 | no accreditation | XRF (fusion) | - |
| 14 | 0,115 | 0,007 | 3,2 | 0,120 | 0,110 | no accreditation | XRF (fusion) | - |
| 15 | 0,090 | 0,000 | 0,5 | 0,090 | 0,090 | no accreditation | XRF (fusion) | - |
| 17 | 0,080 | 0,002 | -0,7 | 0,081 | 0,078 | no accreditation | XRF (fusion) | - |
| 18 | 0,085 | | -0,1 | 0,085 | | no accreditation | XRF (fusion) | - |
| 20 | 0,096 | 0,001 | 1,1 | 0,095 | 0,096 | no accreditation | XRF (fusion) | - |
| 21 | 0,075 | 0,007 | -1,1 | 0,070 | 0,080 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,090 | 0,000 | 0,5 | 0,090 | 0,090 | no accreditation | XRF (fusion) | - |
| 23 | 0,082 | 0,000 | -0,4 | 0,082 | 0,082 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,085 | 0,001 | -0,1 | 0,084 | 0,085 | no accreditation | XRF (fusion) | - |
| 25 | 0,084 | 0,002 | -0,1 | 0,083 | 0,086 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,081 | 0,001 | -0,6 | 0,081 | 0,080 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,080 | 0,002 | -0,7 | 0,078 | 0,081 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,080 | 0,000 | -0,6 | 0,080 | 0,080 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,090 | 0,001 | 0,5 | 0,091 | 0,089 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,080 | 0,000 | -0,6 | 0,080 | 0,080 | no accreditation | XRF (fusion) | - |
| 33 | 0,090 | 0,000 | 0,5 | 0,090 | 0,090 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,080 | 0,000 | -0,6 | 0,080 | 0,080 | no accreditation | XRF (fusion) | - |
| 36 | 0,100 | 0,000 | 1,6 | 0,100 | 0,100 | no accreditation | XRF (fusion) | - |
| 37 | 0,085 | 0,000 | -0,1 | 0,085 | 0,085 | no accreditation | XRF (fusion) | - |
| 38 | 0,074 | | -1,3 | 0,074 | | ISO 17025 | ICP-OES | - |
| 40 | | | | <0,100 | <0,100 | ISO 17025 | XRF (fusion) | - |
| 41 | 0,156 | 0,001 | 7,7 | 0,155 | 0,157 | no accreditation | XRF (Pellet) info only | |
| 42 | | | | <0,005 | <0,005 | no accreditation | XRF (fusion) | - |
| 43 | 0,334 | 0,017 | 26,9 | 0,321 | 0,346 | no accreditation | other | C, TXRF |
| 44 | 0,095 | 0,007 | 1,0 | 0,090 | 0,100 | no accreditation | XRF (fusion) | - |
| 45 | 0,081 | 0,002 | -0,6 | 0,082 | 0,079 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,100 | 0,000 | 1,6 | 0,100 | 0,100 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,080 | 0,002 | -0,7 | 0,078 | 0,081 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,085 | 0,007 | -0,1 | 0,080 | 0,090 | no accreditation | XRF (fusion) | - |
| 50 | 0,090 | 0,000 | 0,5 | 0,090 | 0,090 | no accreditation | XRF (fusion) | - |
| 51 | 0,075 | 0,007 | -1,1 | 0,070 | 0,080 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 52 | 0,062 | 0,002 | -2,6 | 0,061 | 0,063 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,219 | 0,001 | 14,4 | 0,218 | 0,219 | no accreditation | XRF (fusion) | - |
| 55 | 0,103 | 0,007 | 1,9 | 0,108 | 0,098 | no accreditation | XRF (fusion) | - |
| 56 | 0,080 | | -0,6 | 0,080 | | no accreditation | XRF (fusion) | - |
| 57 | 0,080 | 0,003 | -0,6 | 0,078 | 0,083 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,090 | 0,000 | 0,5 | 0,090 | 0,090 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.:** 0,418 % TM
Measurand: SiO2 **Repeat. s.d.:** 0,050 % TM
Mean ± U(Mean): 26,339 ± 0,185 % TM **Range of tolerance:** 25,504 - 27,175 % TM (|z-score| ≤ 2,0)
No. of laboratories: 32 **Sample:** DIN 38402 A45
Assigned value: 26,339 % TM (Empirical value) **Target s.d.:** 0,418 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------------------------|
| 02 | 26,291 | 0,001 | -0,1 | 26,292 | 26,290 | ISO 17025 | XRF (fusion) | - |
| 03 | 25,928 | 0,016 | -1,0 | 25,916 | 25,939 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 22,880 | | -8,3 | 22,880 | | ISO 17025 | ICP-OES | - |
| 06 | 25,210 | 0,099 | -2,7 | 25,140 | 25,280 | no accreditation | Wet chemistry EN196-2 | precip. aided by gelatine |
| 07 | 26,295 | 0,035 | -0,1 | 26,270 | 26,320 | no accreditation | XRF (fusion) | - |

RV118

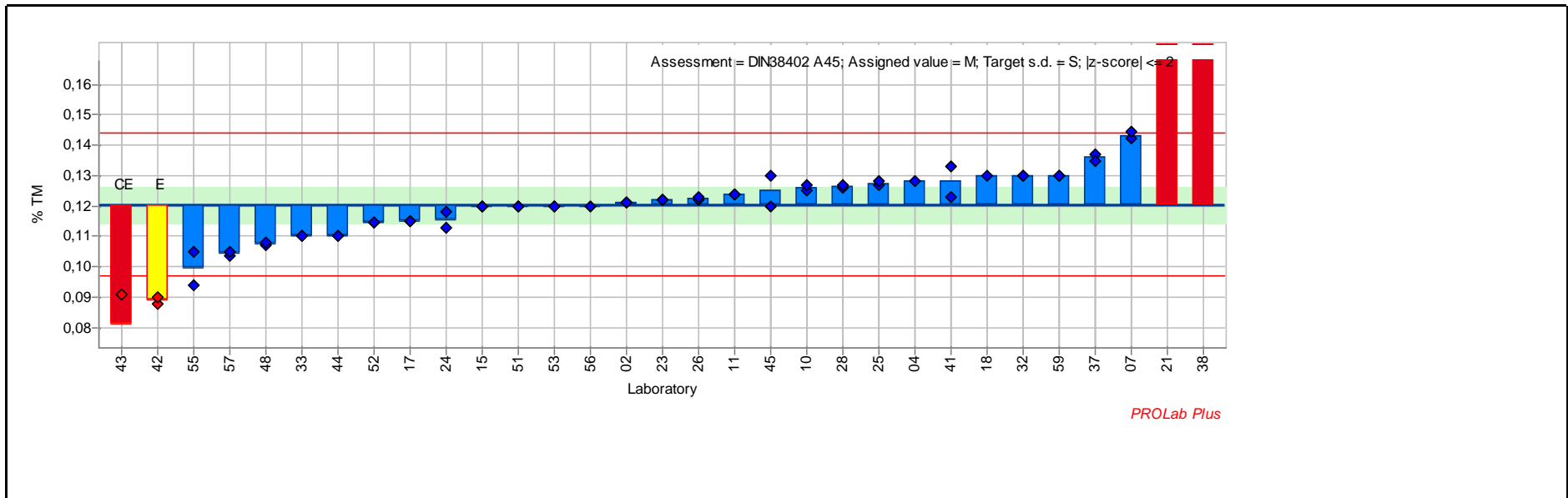
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 26,950 | 0,141 | 1,5 | 26,850 | 27,050 | no accreditation | XRF (fusion) | - |
| 11 | 26,460 | 0,057 | 0,3 | 26,500 | 26,420 | no accreditation | XRF (fusion) | - |
| 14 | 25,935 | 0,120 | -1,0 | 26,020 | 25,850 | no accreditation | XRF (fusion) | - |
| 15 | 26,305 | 0,007 | -0,1 | 26,310 | 26,300 | no accreditation | XRF (fusion) | - |
| 17 | 26,223 | 0,163 | -0,3 | 26,338 | 26,107 | no accreditation | XRF (fusion) | - |
| 18 | 26,570 | | 0,6 | 26,570 | | no accreditation | XRF (fusion) | - |
| 19 | 26,915 | 0,021 | 1,4 | 26,930 | 26,900 | no accreditation | XRF (fusion) | - |
| 20 | 26,905 | 0,007 | 1,4 | 26,910 | 26,900 | no accreditation | XRF (fusion) | - |
| 21 | 25,825 | 0,021 | -1,2 | 25,840 | 25,810 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 26,495 | 0,148 | 0,4 | 26,600 | 26,390 | no accreditation | XRF (fusion) | - |
| 23 | 24,227 | 0,273 | -5,1 | 24,034 | 24,420 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 26,489 | 0,037 | 0,4 | 26,515 | 26,463 | no accreditation | XRF (fusion) | - |
| 25 | 26,405 | 0,049 | 0,2 | 26,440 | 26,370 | ISO 17025 | XRF (fusion) | - |
| 26 | 26,413 | 0,023 | 0,2 | 26,397 | 26,429 | ISO 17025 | XRF (fusion) | - |
| 28 | 26,682 | 0,308 | 0,8 | 26,900 | 26,465 | ISO 17025 | XRF (fusion) | - |
| 29 | 26,505 | 0,049 | 0,4 | 26,470 | 26,540 | ISO 17025 | XRF (fusion) | - |
| 31 | 25,405 | 0,035 | -2,2 | 25,430 | 25,380 | ISO 17025 | XRF (fusion) | - |
| 32 | 26,215 | 0,035 | -0,3 | 26,240 | 26,190 | no accreditation | XRF (fusion) | - |
| 33 | 27,170 | 0,042 | 2,0 | 27,140 | 27,200 | no accreditation | XRF (Pellet) info only | - |
| 34 | 26,595 | 0,007 | 0,6 | 26,590 | 26,600 | no accreditation | XRF (fusion) | - |
| 36 | 26,100 | 0,000 | -0,6 | 26,100 | 26,100 | ISO 17025 | XRF (fusion) | - |
| 37 | 26,955 | 0,021 | 1,5 | 26,970 | 26,940 | no accreditation | XRF (fusion) | - |
| 40 | 26,085 | 0,021 | -0,6 | 26,100 | 26,070 | ISO 17025 | XRF (fusion) | - |
| 41 | 27,610 | 0,424 | 3,0 | 27,310 | 27,910 | no accreditation | XRF (Pellet) info only | |
| 42 | 26,750 | 0,071 | 1,0 | 26,800 | 26,700 | no accreditation | XRF (fusion) | - |
| 44 | 27,100 | 0,099 | 1,8 | 27,030 | 27,170 | no accreditation | XRF (fusion) | - |
| 45 | 27,090 | 0,028 | 1,8 | 27,070 | 27,110 | ISO 17025 | XRF (fusion) | - |
| 47 | 26,630 | 0,014 | 0,7 | 26,620 | 26,640 | ISO 17025 | XRF (fusion) | - |
| 48 | 25,650 | 0,071 | -1,6 | 25,700 | 25,600 | ISO 17025 | XRF (fusion) | - |
| 49 | 26,330 | 0,283 | 0,0 | 26,130 | 26,530 | no accreditation | XRF (fusion) | - |
| 50 | 26,300 | 0,014 | -0,1 | 26,310 | 26,290 | no accreditation | XRF (fusion) | - |
| 51 | 26,390 | 0,170 | 0,1 | 26,270 | 26,510 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 52 | 20,300 | 0,014 | -14,5 | 20,310 | 20,290 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 25,585 | 0,120 | -1,8 | 25,500 | 25,670 | no accreditation | XRF (fusion) | - |
| 55 | 26,548 | 0,287 | 0,5 | 26,345 | 26,751 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 26,650 | | 0,7 | 26,650 | | no accreditation | XRF (fusion) | - |
| 57 | 26,460 | 0,088 | 0,3 | 26,397 | 26,522 | ISO 17025 | XRF (fusion) | - |
| 59 | 26,430 | 0,000 | 0,2 | 26,430 | 26,430 | no accreditation | XRF (fusion) | - |

RV118

| | | | | |
|-----------------------------|-------------------------------------|----------------------------|---|----------|
| Sample: | FLX-CRM 120 | Reprod. s.d.: | 0,012 % TM | |
| Measurand: | SrO | Repeat. s.d.: | 0,001 % TM | |
| Mean ± U(Mean): | 0,121 ± 0,006 % TM | Range of tolerance: | 0,097 - 0,144 % TM (z-score ≤ 2,0) | E |
| No. of laboratories: | 26 | Sample: | DIN 38402 A45 | |
| Assigned value: | 0,121 % TM (Empirical value) | Target s.d.: | 0,012 % TM (Empirical value) | |



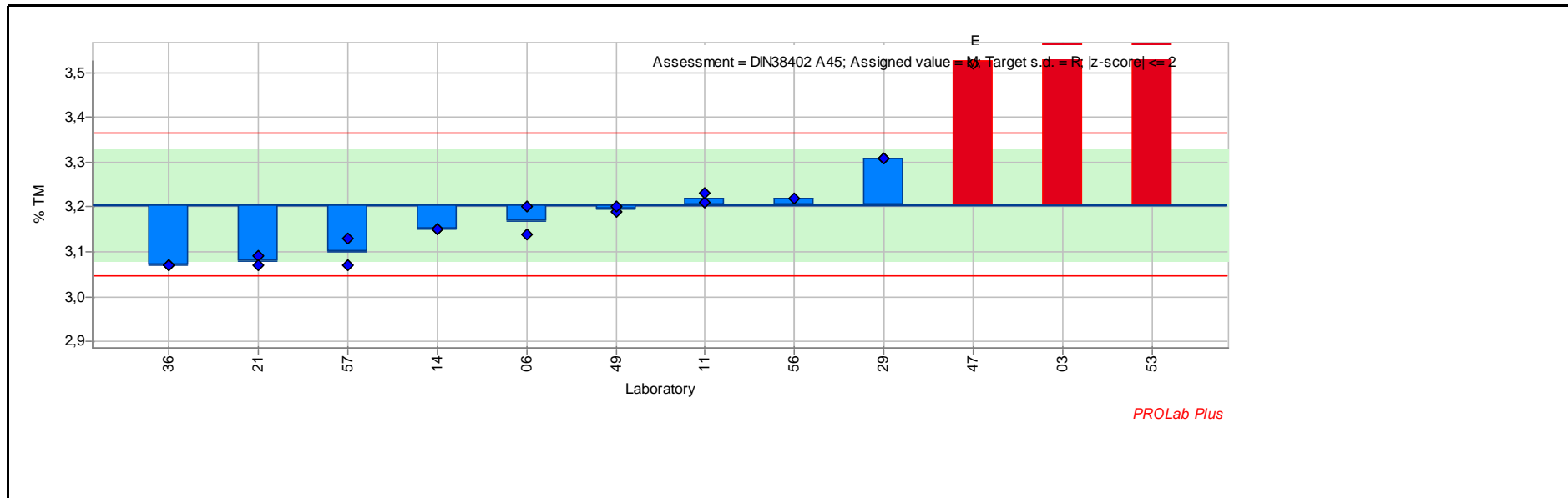
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 02 | 0,121 | 0,000 | 0,0 | 0,121 | 0,121 | ISO 17025 | XRF (fusion) | - |
| 04 | 0,128 | | 0,6 | 0,128 | | ISO 17025 | ICP-OES | - |
| 07 | 0,143 | 0,002 | 1,9 | 0,142 | 0,144 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,126 | 0,001 | 0,5 | 0,125 | 0,127 | no accreditation | XRF (fusion) | - |
| 11 | 0,124 | 0,000 | 0,3 | 0,124 | 0,124 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 15 | 0,120 | 0,000 | 0,0 | 0,120 | 0,120 | no accreditation | XRF (fusion) | - |
| 17 | 0,115 | 0,000 | -0,5 | 0,115 | 0,115 | no accreditation | XRF (fusion) | - |
| 18 | 0,130 | | 0,8 | 0,130 | | no accreditation | XRF (fusion) | - |
| 21 | 0,211 | 0,001 | 7,7 | 0,212 | 0,210 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,122 | 0,000 | 0,1 | 0,122 | 0,122 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,115 | 0,004 | -0,4 | 0,118 | 0,113 | no accreditation | XRF (fusion) | - |
| 25 | 0,128 | 0,001 | 0,6 | 0,127 | 0,128 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,122 | 0,001 | 0,2 | 0,122 | 0,123 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,127 | 0,001 | 0,5 | 0,126 | 0,127 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,130 | 0,000 | 0,8 | 0,130 | 0,130 | no accreditation | XRF (fusion) | - |
| 33 | 0,110 | 0,000 | -0,9 | 0,110 | 0,110 | no accreditation | XRF (Pellet) info only | - |
| 37 | 0,136 | 0,001 | 1,3 | 0,137 | 0,135 | no accreditation | XRF (fusion) | - |
| 38 | 0,506 | | 32,7 | 0,506 | | ISO 17025 | ICP-OES | - |
| 41 | 0,128 | 0,007 | 0,6 | 0,123 | 0,133 | no accreditation | ICP-OES | - |
| 42 | 0,089 | 0,001 | -2,7 | 0,088 | 0,090 | no accreditation | XRF (fusion) | - |
| 43 | 0,081 | 0,014 | -3,3 | 0,091 | 0,071 | no accreditation | other | C, TXRF |
| 44 | 0,110 | 0,000 | -0,9 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 45 | 0,125 | 0,007 | 0,4 | 0,120 | 0,130 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,107 | 0,001 | -1,1 | 0,107 | 0,108 | ISO 17025 | XRF (fusion) | - |
| 51 | 0,120 | 0,000 | 0,0 | 0,120 | 0,120 | no accreditation | XRF (fusion) | - |
| 52 | 0,115 | 0,000 | -0,5 | 0,115 | 0,115 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,120 | 0,000 | 0,0 | 0,120 | 0,120 | no accreditation | XRF (fusion) | - |
| 55 | 0,100 | 0,008 | -1,8 | 0,105 | 0,094 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,120 | | 0,0 | 0,120 | | no accreditation | XRF (fusion) | - |
| 57 | 0,104 | 0,001 | -1,4 | 0,104 | 0,105 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,130 | 0,000 | 0,8 | 0,130 | 0,130 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.** 0,172 % TM
Measurand: Sulfate expressed as SO3 **Repeat. s.d.** 0,020 % TM E
Mean ± U(Mean): 3,206 ± 0,124 % TM **Range of tolerance:** 3,046 - 3,366 % TM (|z-score| ≤ 2,0)
No. of laboratories: 12 **Sample** DIN 38402 A45
Assigned value 3,206 % TM (Empirical value) **Target s.d.** 0,080 % TM (Reference value)



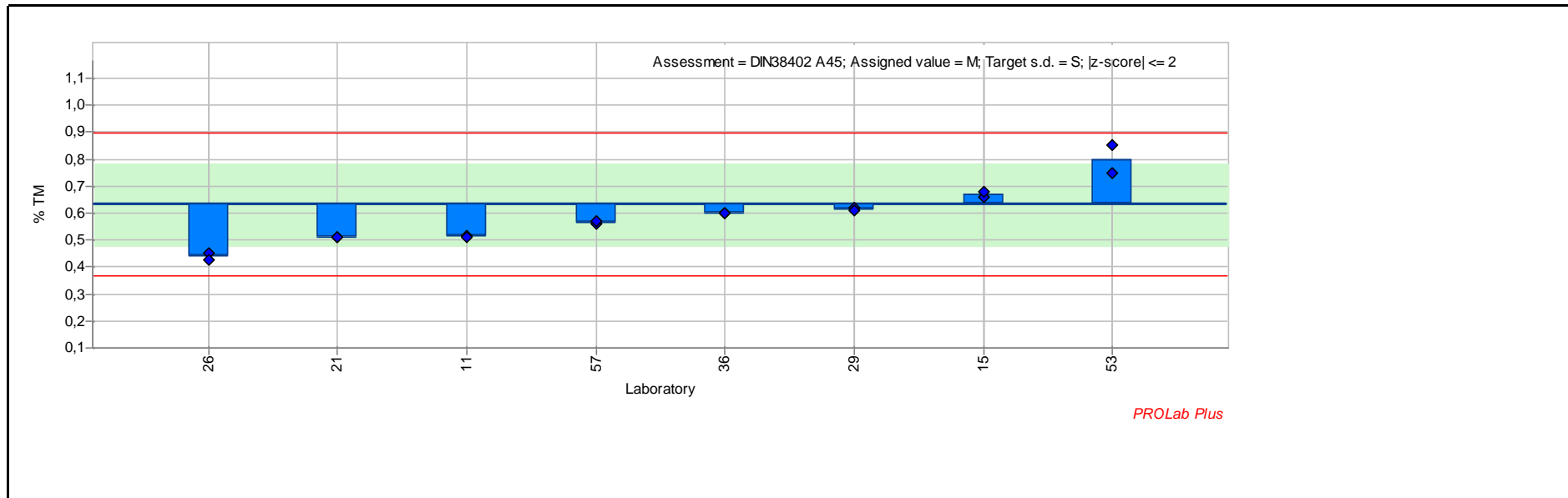
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 03 | 3,900 | 0,020 | 8,7 | 3,914 | 3,886 | no accreditation | Wet chemistry EN196-2 | - |
| 06 | 3,170 | 0,042 | -0,4 | 3,200 | 3,140 | no accreditation | Wet chemistry EN196-2 | - |
| 11 | 3,220 | 0,014 | 0,2 | 3,210 | 3,230 | no accreditation | Wet chemistry EN196-2 | - |
| 14 | 3,150 | 0,000 | -0,7 | 3,150 | 3,150 | no accreditation | Wet chemistry EN196-2 | - |
| 21 | 3,080 | 0,014 | -1,6 | 3,090 | 3,070 | ISO 17025 | Wet chemistry EN196-2 | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 29 | 3,310 | 0,000 | 1,3 | 3,310 | 3,310 | ISO 17025 | Wet chemistry EN196-2 | - |
| 36 | 3,070 | 0,000 | -1,7 | 3,070 | 3,070 | ISO 17025 | Wet chemistry EN196-2 | - |
| 47 | 3,525 | 0,007 | 4,0 | 3,520 | 3,530 | no accreditation | Wet chemistry EN196-2 | - |
| 49 | 3,195 | 0,007 | -0,1 | 3,190 | 3,200 | no accreditation | Wet chemistry EN196-2 | - |
| 53 | 4,320 | 0,198 | 13,9 | 4,460 | 4,180 | no accreditation | Wet chemistry EN196-2 | C |
| 56 | 3,220 | | 0,2 | 3,220 | | no accreditation | Wet chemistry EN196-2 | - |
| 57 | 3,100 | 0,042 | -1,3 | 3,130 | 3,070 | ISO 17025 | Wet chemistry EN196-2 | - |

RV118

| | | | |
|-----------------------------|-------------------------------------|----------------------------|---|
| Sample: | FLX-CRM 120 | Reprod. s.d. | 0,133 % TM |
| Measurand: | Sulfide expressed as S | Repeat. s.d | 0,013 % TM |
| Mean ± U(Mean): | 0,632 ± 0,149 % TM | Range of tolerance: | 0,366 - 0,898 % TM (z-score ≤ 2,0) |
| No. of laboratories: | 5 | Sample | DIN 38402 A45 |
| Assigned value | 0,632 % TM (Empirical value) | Target s.d. | 0,133 % TM (Empirical value) |



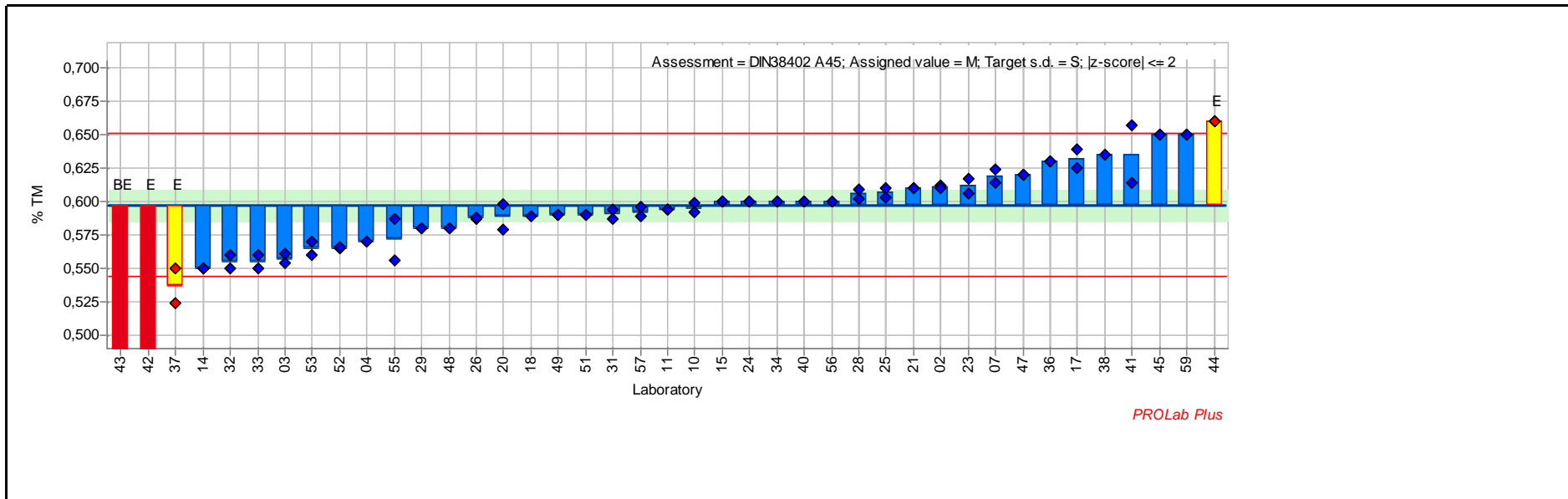
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------------|
| 11 | 0,514 | 0,003 | -0,9 | 0,516 | 0,512 | no accreditation | Standardless info only | - |
| 15 | 0,670 | 0,014 | 0,3 | 0,660 | 0,680 | no accreditation | Wet chemistry EN196-2 | - |
| 21 | 0,510 | 0,000 | -0,9 | 0,510 | 0,510 | ISO 17025 | Wet chemistry EN196-2 | - |
| 26 | 0,439 | 0,017 | -1,4 | 0,451 | 0,427 | ISO 17025 | other | DIN 38405-D27 |
| 29 | 0,615 | 0,007 | -0,1 | 0,620 | 0,610 | ISO 17025 | Wet chemistry EN196-2 | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|----------------|
| 36 | 0,600 | 0,000 | -0,2 | 0,600 | 0,600 | no accreditation | other | Calculation |
| 53 | 0,800 | 0,071 | 1,3 | 0,750 | 0,850 | no accreditation | Wet chemistry EN196-2 | C |
| 57 | 0,565 | 0,007 | -0,5 | 0,560 | 0,570 | no accreditation | Wet chemistry EN196-2 | SO4 difference |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.:** 0,027 % TM
Measurand: TiO2 **Repeat. s.d.:** 0,005 % TM
Mean ± U(Mean): 0,597 ± 0,011 % TM **Range of tolerance:** 0,544 - 0,651 % TM (|z-score| ≤ 2,0)
No. of laboratories: 36 **Sample:** DIN 38402 A45
Assigned value 0,597 % TM (Empirical value) **Target s.d.:** 0,027 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,611 | 0,001 | 0,5 | 0,612 | 0,610 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,557 | 0,005 | -1,5 | 0,561 | 0,553 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,570 | | -1,0 | 0,570 | | ISO 17025 | ICP-OES | - |
| 07 | 0,619 | 0,007 | 0,8 | 0,624 | 0,614 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,595 | 0,005 | -0,1 | 0,592 | 0,599 | no accreditation | XRF (fusion) | - |

RV118

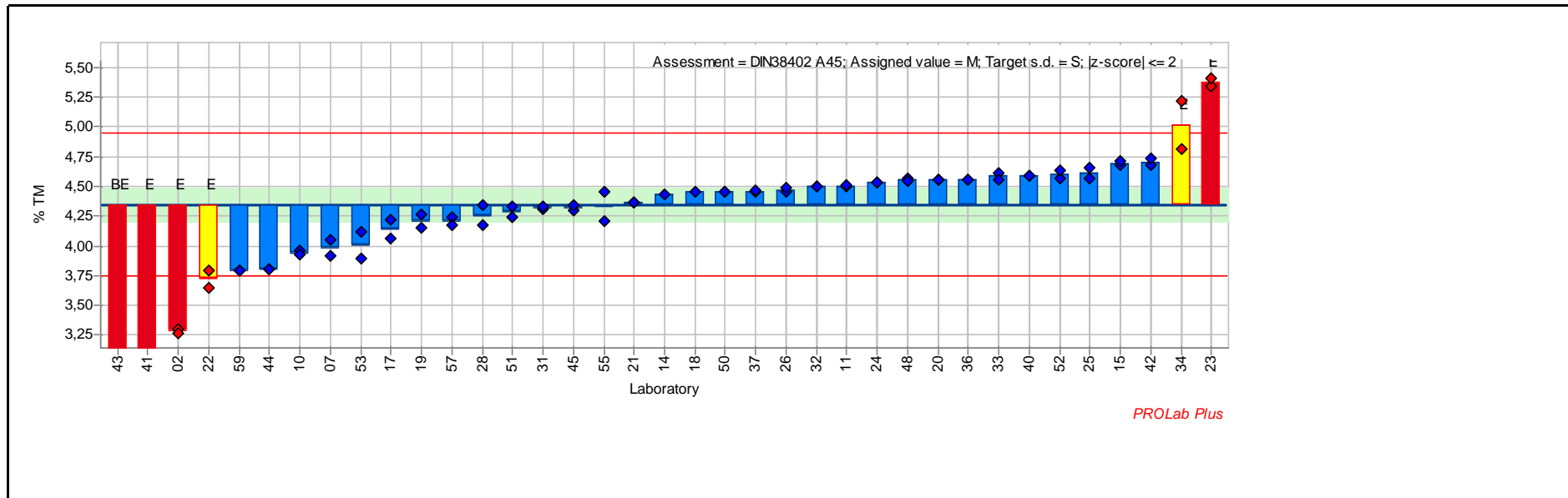
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,594 | 0,000 | -0,1 | 0,594 | 0,594 | no accreditation | XRF (fusion) | - |
| 14 | 0,550 | 0,000 | -1,8 | 0,550 | 0,550 | no accreditation | XRF (fusion) | - |
| 15 | 0,600 | 0,000 | 0,1 | 0,600 | 0,600 | no accreditation | XRF (fusion) | - |
| 17 | 0,632 | 0,010 | 1,3 | 0,625 | 0,639 | no accreditation | XRF (fusion) | - |
| 18 | 0,589 | | -0,3 | 0,589 | | no accreditation | XRF (fusion) | - |
| 20 | 0,589 | 0,013 | -0,3 | 0,579 | 0,598 | no accreditation | XRF (fusion) | - |
| 21 | 0,610 | 0,000 | 0,5 | 0,610 | 0,610 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,611 | 0,008 | 0,5 | 0,606 | 0,617 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,600 | 0,000 | 0,1 | 0,600 | 0,600 | no accreditation | XRF (fusion) | - |
| 25 | 0,607 | 0,005 | 0,3 | 0,610 | 0,603 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,587 | 0,001 | -0,4 | 0,587 | 0,588 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,605 | 0,005 | 0,3 | 0,609 | 0,602 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,580 | 0,000 | -0,6 | 0,580 | 0,580 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,591 | 0,005 | -0,3 | 0,594 | 0,587 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,555 | 0,007 | -1,6 | 0,550 | 0,560 | no accreditation | XRF (fusion) | - |
| 33 | 0,555 | 0,007 | -1,6 | 0,560 | 0,550 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,600 | 0,000 | 0,1 | 0,600 | 0,600 | no accreditation | XRF (fusion) | - |
| 36 | 0,630 | 0,000 | 1,2 | 0,630 | 0,630 | ISO 17025 | XRF (fusion) | - |
| 37 | 0,537 | 0,018 | -2,2 | 0,524 | 0,550 | no accreditation | XRF (fusion) | - |
| 38 | 0,635 | | 1,4 | 0,635 | | ISO 17025 | ICP-OES | - |
| 40 | 0,600 | 0,000 | 0,1 | 0,600 | 0,600 | ISO 17025 | XRF (fusion) | - |
| 41 | 0,635 | 0,030 | 1,4 | 0,614 | 0,657 | no accreditation | ICP-OES | C |
| 42 | 0,377 | 0,006 | -8,2 | 0,372 | 0,381 | no accreditation | XRF (fusion) | - |
| 43 | 0,355 | 0,022 | -9,0 | 0,340 | 0,371 | no accreditation | other | TXRF |
| 44 | 0,660 | 0,000 | 2,3 | 0,660 | 0,660 | no accreditation | XRF (fusion) | - |
| 45 | 0,650 | 0,000 | 2,0 | 0,650 | 0,650 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,620 | 0,000 | 0,8 | 0,620 | 0,620 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,580 | 0,000 | -0,6 | 0,580 | 0,580 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,590 | 0,000 | -0,3 | 0,590 | 0,590 | no accreditation | XRF (fusion) | - |
| 51 | 0,590 | 0,000 | -0,3 | 0,590 | 0,590 | no accreditation | XRF (fusion) | - |
| 52 | 0,565 | 0,001 | -1,2 | 0,565 | 0,566 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,565 | 0,007 | -1,2 | 0,560 | 0,570 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-----------------------|
| 55 | 0,572 | 0,022 | -1,0 | 0,587 | 0,556 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,600 | | 0,1 | 0,600 | | no accreditation | XRF (fusion) | - |
| 57 | 0,592 | 0,004 | -0,2 | 0,589 | 0,596 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,650 | 0,000 | 2,0 | 0,650 | 0,650 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.:** 0,302 % TM
Measurand: Total S expressed as SO3 **Repeat. s.d.:** 0,036 % TM
Mean ± U(Mean): 4,348 ± 0,135 % TM **Range of tolerance:** 3,745 - 4,952 % TM (|z-score| <= 2,0)
No. of laboratories: 31 **Sample:** DIN 38402 A45
Assigned value: 4,348 % TM (Empirical value) **Target s.d.:** 0,302 % TM (Empirical value)



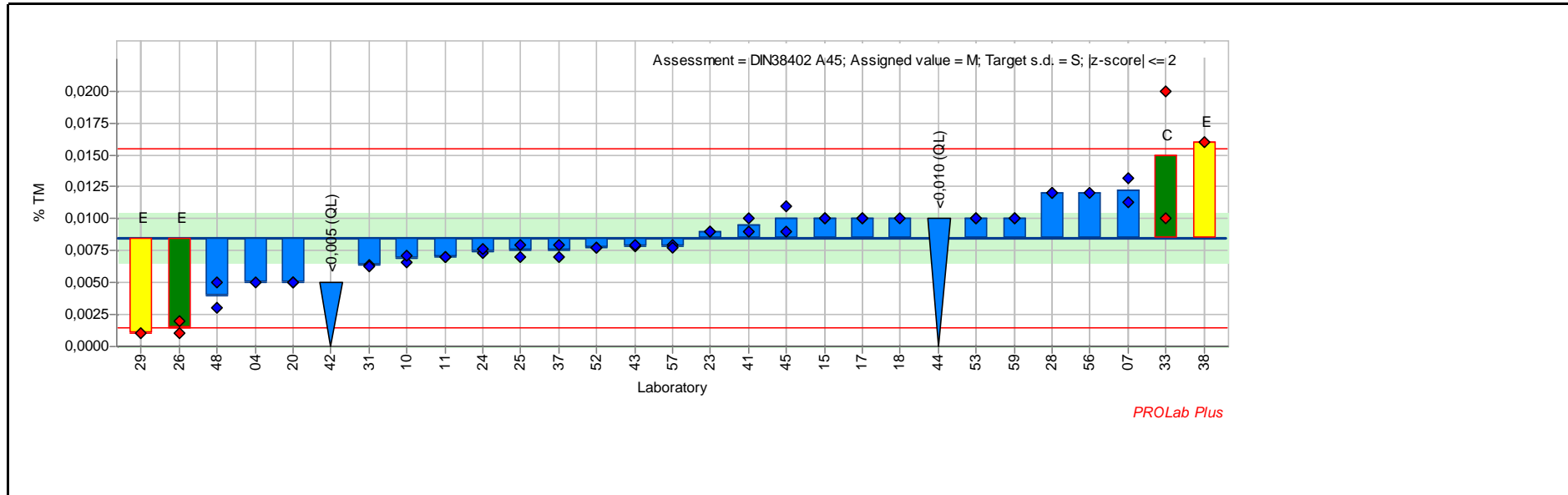
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 02 | 3,282 | 0,021 | -3,5 | 3,297 | 3,267 | ISO 17025 | XRF (fusion) | - |
| 07 | 3,985 | 0,092 | -1,2 | 4,050 | 3,920 | no accreditation | XRF (Pellet) info only | - |
| 10 | 3,944 | 0,029 | -1,3 | 3,964 | 3,923 | no accreditation | XRF (fusion) | - |
| 11 | 4,505 | 0,007 | 0,5 | 4,500 | 4,510 | no accreditation | XRF (fusion) | - |
| 14 | 4,430 | | 0,3 | 4,430 | | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|--------------------------|
| 15 | 4,695 | 0,021 | 1,1 | 4,680 | 4,710 | no accreditation | XRF (fusion) | - |
| 17 | 4,140 | 0,109 | -0,7 | 4,217 | 4,063 | no accreditation | XRF (fusion) | - |
| 18 | 4,452 | | 0,3 | 4,452 | | no accreditation | XRF (fusion) | - |
| 19 | 4,205 | 0,078 | -0,5 | 4,150 | 4,260 | no accreditation | XRF (fusion) | - |
| 20 | 4,556 | 0,006 | 0,7 | 4,560 | 4,552 | no accreditation | combustion | - |
| 21 | 4,365 | 0,007 | 0,1 | 4,370 | 4,360 | ISO 17025 | Wet chemistry EN196-2 | - |
| 22 | 3,720 | 0,099 | -2,1 | 3,790 | 3,650 | no accreditation | XRF (fusion) | - |
| 23 | 5,373 | 0,052 | 3,4 | 5,337 | 5,410 | ISO 17025 | XRF (Pellet) info only | - |
| 24 | 4,530 | 0,003 | 0,6 | 4,528 | 4,532 | no accreditation | XRF (fusion) | - |
| 25 | 4,615 | 0,064 | 0,9 | 4,570 | 4,660 | ISO 17025 | XRF (fusion) | - |
| 26 | 4,472 | 0,019 | 0,4 | 4,458 | 4,485 | ISO 17025 | combustion | - |
| 28 | 4,258 | 0,122 | -0,3 | 4,172 | 4,344 | ISO 17025 | XRF (fusion) | - |
| 31 | 4,320 | 0,014 | -0,1 | 4,310 | 4,330 | ISO 17025 | combustion | - |
| 32 | 4,500 | 0,000 | 0,5 | 4,500 | 4,500 | no accreditation | XRF (fusion) | - |
| 33 | 4,585 | 0,035 | 0,8 | 4,610 | 4,560 | no accreditation | XRF (Pellet) info only | - |
| 34 | 5,019 | 0,283 | 2,2 | 5,219 | 4,819 | no accreditation | XRF (fusion) | C |
| 36 | 4,560 | 0,000 | 0,7 | 4,560 | 4,560 | no accreditation | other | SR3T gravimetric Bromine |
| 37 | 4,460 | 0,014 | 0,4 | 4,450 | 4,470 | no accreditation | XRF (fusion) | - |
| 40 | 4,590 | 0,000 | 0,8 | 4,590 | 4,590 | ISO 17025 | XRF (fusion) | - |
| 41 | 1,830 | 0,028 | -8,3 | 1,850 | 1,810 | no accreditation | combustion | - |
| 42 | 4,705 | 0,035 | 1,2 | 4,680 | 4,730 | no accreditation | XRF (fusion) | - |
| 43 | 1,555 | 0,202 | -9,3 | 1,412 | 1,698 | no accreditation | other | TXRF |
| 44 | 3,800 | 0,000 | -1,8 | 3,800 | 3,800 | no accreditation | XRF (fusion) | - |
| 45 | 4,320 | 0,028 | -0,1 | 4,300 | 4,340 | ISO 17025 | combustion | - |
| 48 | 4,555 | 0,021 | 0,7 | 4,570 | 4,540 | ISO 17025 | combustion | - |
| 50 | 4,455 | 0,007 | 0,4 | 4,450 | 4,460 | no accreditation | XRF (fusion) | - |
| 51 | 4,285 | 0,064 | -0,2 | 4,330 | 4,240 | no accreditation | XRF (fusion) | - |
| 52 | 4,599 | 0,045 | 0,8 | 4,567 | 4,631 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 4,005 | 0,163 | -1,1 | 4,120 | 3,890 | no accreditation | XRF (fusion) | - |
| 55 | 4,335 | 0,172 | 0,0 | 4,456 | 4,213 | no accreditation | XRF (fusion) | Reconstitution Method |
| 57 | 4,207 | 0,048 | -0,5 | 4,241 | 4,173 | ISO 17025 | XRF (fusion) | - |
| 59 | 3,790 | 0,000 | -1,9 | 3,790 | 3,790 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 120 **Reprod. s.d.:** 0,003 % TM
Measurand: ZnO **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,009 ± 0,002 % TM **Range of tolerance:** 0,002 - 0,015 % TM (|z-score| ≤ 2,0)
No. of laboratories: 20 **Sample:** DIN 38402 A45
Assigned value: 0,009 % TM (Empirical value) **Target s.d.:** 0,003 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 04 | 0,005 | | -1,0 | 0,005 | | ISO 17025 | ICP-OES | - |
| 07 | 0,012 | 0,001 | 1,1 | 0,011 | 0,013 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,007 | 0,000 | -0,5 | 0,007 | 0,007 | no accreditation | XRF (fusion) | - |
| 11 | 0,007 | 0,000 | -0,4 | 0,007 | 0,007 | no accreditation | XRF (fusion) | - |
| 15 | 0,010 | 0,000 | 0,4 | 0,010 | 0,010 | no accreditation | XRF (fusion) | - |

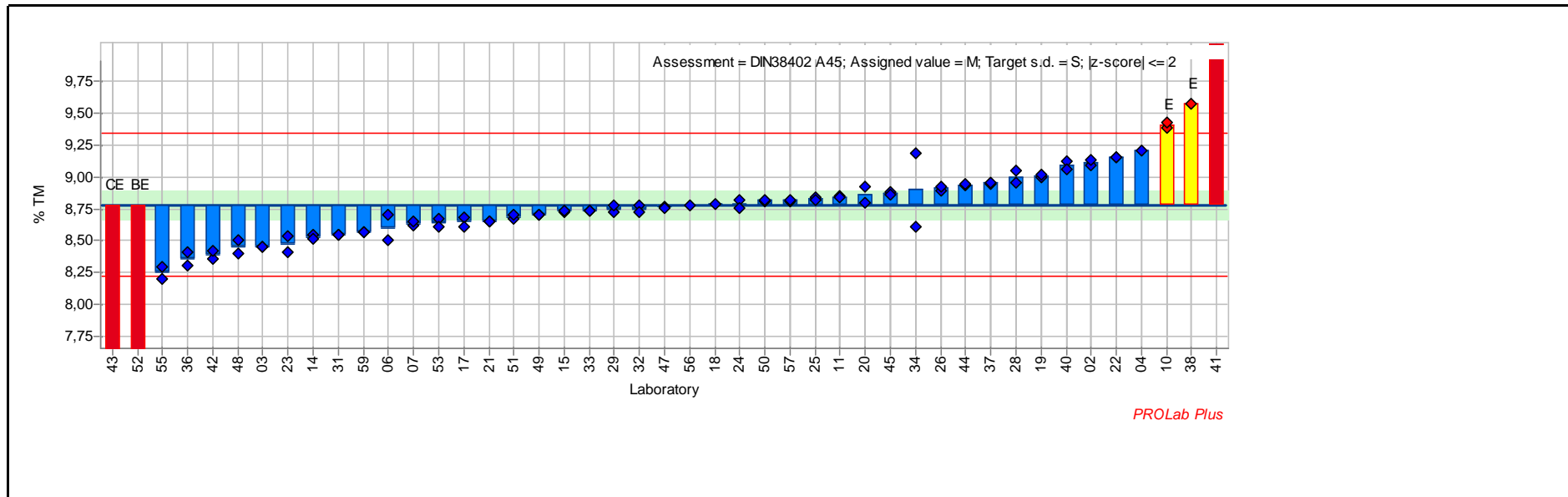
RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------------------|
| 17 | 0,010 | 0,000 | 0,4 | 0,010 | 0,010 | no accreditation | XRF (fusion) | - |
| 18 | 0,010 | | 0,4 | 0,010 | | no accreditation | XRF (fusion) | - |
| 20 | 0,005 | 0,000 | -1,0 | 0,005 | 0,005 | no accreditation | XRF (Pellet) info only | - |
| 23 | 0,009 | 0,000 | 0,1 | 0,009 | 0,009 | ISO 17025 | XRF (Pellet) info only | - |
| 24 | 0,007 | 0,000 | -0,3 | 0,007 | 0,008 | no accreditation | XRF (fusion) | - |
| 25 | 0,007 | 0,001 | -0,3 | 0,008 | 0,007 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,002 | 0,001 | -2,0 | 0,001 | 0,002 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,012 | 0,000 | 1,0 | 0,012 | 0,012 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,001 | | -2,1 | 0,001 | | no accreditation | Standardless info only | fused bead trace |
| 31 | 0,006 | 0,000 | -0,6 | 0,006 | 0,006 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 33 | 0,015 | 0,007 | 1,9 | 0,020 | 0,010 | no accreditation | XRF (Pellet) info only | C |
| 37 | 0,007 | 0,001 | -0,3 | 0,008 | 0,007 | no accreditation | XRF (fusion) | - |
| 38 | 0,016 | | 2,1 | 0,016 | | ISO 17025 | ICP-OES | - |
| 41 | 0,009 | 0,001 | 0,3 | 0,009 | 0,010 | no accreditation | ICP-OES | - |
| 42 | | | | <0,005 | <0,005 | no accreditation | XRF (fusion) | - |
| 43 | 0,008 | 0,000 | -0,2 | 0,008 | 0,008 | no accreditation | other | TXRF |
| 44 | | | | <0,010 | <0,010 | no accreditation | XRF (fusion) | - |
| 45 | 0,010 | 0,001 | 0,4 | 0,011 | 0,009 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,004 | 0,001 | -1,3 | 0,005 | 0,003 | ISO 17025 | XRF (fusion) | - |
| 52 | 0,008 | 0,000 | -0,2 | 0,008 | 0,008 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,010 | 0,000 | 0,4 | 0,010 | 0,010 | no accreditation | XRF (fusion) | - |
| 56 | 0,012 | | 1,0 | 0,012 | | no accreditation | XRF (fusion) | - |
| 57 | 0,008 | 0,000 | -0,2 | 0,008 | 0,008 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,010 | 0,000 | 0,4 | 0,010 | 0,010 | no accreditation | XRF (fusion) | - |

E

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,282 % TM
Measurand: Al2O3 **Repeat. s.d.:** 0,039 % TM
Mean ± U(Mean): 8,782 ± 0,110 % TM **Range of tolerance:** 8,218 - 9,346 % TM (|z-score| ≤ 2,0)
No. of laboratories: 41 **Sample:** DIN 38402 A45
Assigned value: 8,782 % TM (Empirical value) **Target s.d.:** 0,282 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 9,114 | 0,033 | 1,2 | 9,090 | 9,137 | ISO 17025 | XRF (fusion) | - |
| 03 | 8,450 | 0,003 | -1,2 | 8,448 | 8,453 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 9,210 | | 1,5 | 9,210 | | ISO 17025 | ICP-OES | - |
| 06 | 8,600 | 0,141 | -0,6 | 8,700 | 8,500 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 8,635 | 0,021 | -0,5 | 8,620 | 8,650 | no accreditation | XRF (fusion) | - |

RV118

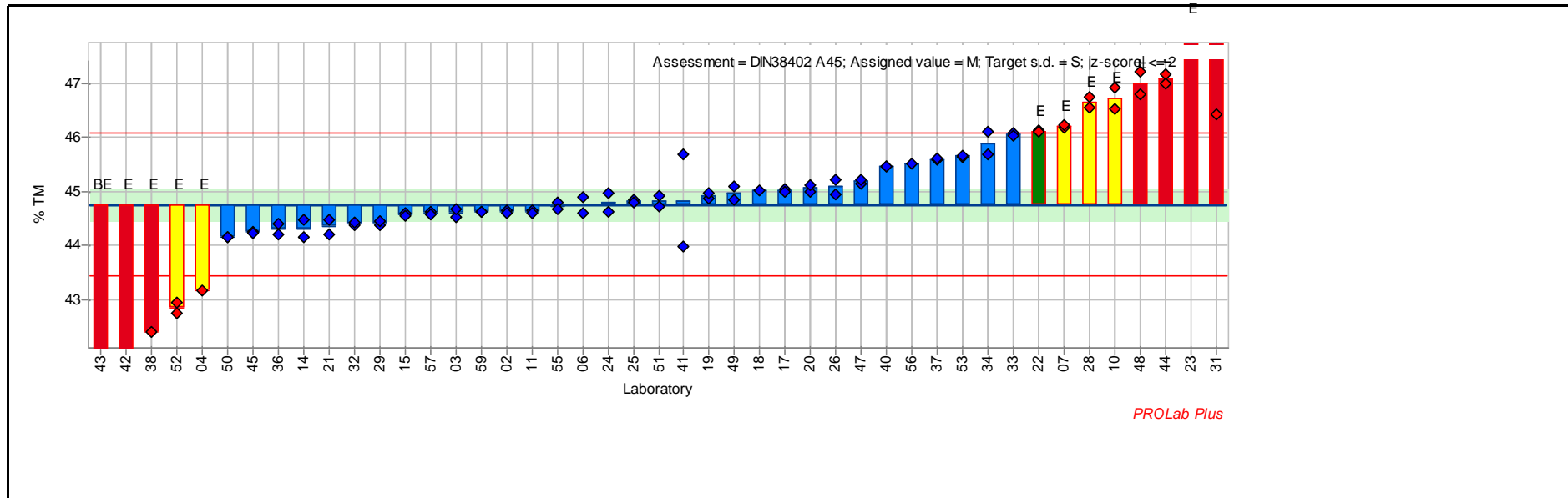
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 9,404 | 0,030 | 2,2 | 9,383 | 9,425 | no accreditation | XRF (fusion) | - |
| 11 | 8,845 | 0,007 | 0,2 | 8,850 | 8,840 | no accreditation | XRF (fusion) | - |
| 14 | 8,530 | 0,028 | -0,9 | 8,550 | 8,510 | no accreditation | XRF (fusion) | - |
| 15 | 8,730 | 0,014 | -0,2 | 8,720 | 8,740 | no accreditation | XRF (fusion) | - |
| 17 | 8,648 | 0,051 | -0,5 | 8,684 | 8,612 | no accreditation | XRF (fusion) | - |
| 18 | 8,790 | | 0,0 | 8,790 | | no accreditation | XRF (fusion) | - |
| 19 | 9,010 | 0,014 | 0,8 | 9,000 | 9,020 | no accreditation | XRF (fusion) | - |
| 20 | 8,860 | 0,088 | 0,3 | 8,798 | 8,922 | no accreditation | XRF (fusion) | - |
| 21 | 8,650 | 0,000 | -0,5 | 8,650 | 8,650 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 9,155 | 0,007 | 1,3 | 9,160 | 9,150 | no accreditation | XRF (fusion) | - |
| 23 | 8,470 | 0,086 | -1,1 | 8,409 | 8,531 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 8,790 | 0,043 | 0,0 | 8,821 | 8,760 | no accreditation | XRF (fusion) | - |
| 25 | 8,830 | 0,014 | 0,2 | 8,840 | 8,820 | ISO 17025 | XRF (fusion) | - |
| 26 | 8,910 | 0,024 | 0,5 | 8,893 | 8,927 | ISO 17025 | XRF (fusion) | - |
| 28 | 8,998 | 0,066 | 0,8 | 8,952 | 9,045 | ISO 17025 | XRF (fusion) | - |
| 29 | 8,750 | 0,042 | -0,1 | 8,720 | 8,780 | ISO 17025 | XRF (fusion) | - |
| 31 | 8,550 | 0,000 | -0,8 | 8,550 | 8,550 | ISO 17025 | XRF (fusion) | - |
| 32 | 8,750 | 0,042 | -0,1 | 8,780 | 8,720 | no accreditation | XRF (fusion) | - |
| 33 | 8,735 | 0,007 | -0,2 | 8,740 | 8,730 | no accreditation | XRF (Pellet) info only | - |
| 34 | 8,900 | 0,410 | 0,4 | 8,610 | 9,190 | no accreditation | XRF (fusion) | C |
| 36 | 8,355 | 0,078 | -1,5 | 8,300 | 8,410 | ISO 17025 | XRF (fusion) | - |
| 37 | 8,955 | 0,007 | 0,6 | 8,950 | 8,960 | no accreditation | XRF (fusion) | - |
| 38 | 9,580 | | 2,8 | 9,580 | | ISO 17025 | XRF (fusion) | - |
| 40 | 9,090 | 0,042 | 1,1 | 9,120 | 9,060 | ISO 17025 | XRF (fusion) | - |
| 41 | 12,315 | 1,718 | 12,5 | 11,100 | 13,530 | no accreditation | ICP-OES | C |
| 42 | 8,390 | 0,042 | -1,4 | 8,360 | 8,420 | no accreditation | XRF (fusion) | - |
| 43 | 1,575 | 0,280 | -25,5 | 1,773 | 1,377 | no accreditation | other | C, TXRF |
| 44 | 8,935 | 0,007 | 0,5 | 8,930 | 8,940 | no accreditation | XRF (fusion) | - |
| 45 | 8,870 | 0,014 | 0,3 | 8,880 | 8,860 | ISO 17025 | XRF (fusion) | - |
| 47 | 8,765 | 0,007 | -0,1 | 8,770 | 8,760 | ISO 17025 | XRF (fusion) | - |
| 48 | 8,450 | 0,071 | -1,2 | 8,500 | 8,400 | ISO 17025 | XRF (fusion) | - |
| 49 | 8,700 | 0,000 | -0,3 | 8,700 | 8,700 | no accreditation | XRF (fusion) | - |

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| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 8,815 | 0,007 | 0,1 | 8,810 | 8,820 | no accreditation | XRF (fusion) | - |
| 51 | 8,685 | 0,021 | -0,3 | 8,670 | 8,700 | no accreditation | XRF (fusion) | - |
| 52 | 6,777 | 0,049 | -7,1 | 6,743 | 6,812 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 8,640 | 0,042 | -0,5 | 8,670 | 8,610 | no accreditation | XRF (fusion) | - |
| 55 | 8,247 | 0,064 | -1,9 | 8,292 | 8,202 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 8,780 | | 0,0 | 8,780 | | no accreditation | XRF (fusion) | - |
| 57 | 8,815 | 0,002 | 0,1 | 8,814 | 8,817 | ISO 17025 | XRF (fusion) | - |
| 59 | 8,570 | 0,000 | -0,8 | 8,570 | 8,570 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,664 % TM
Measurand: CaO **Repeat. s.d.:** 0,108 % TM
Mean ± U(Mean): 44,755 ± 0,285 % TM **Range of tolerance:** 43,427 - 46,082 % TM (|z-score| ≤ 2,0)
No. of laboratories: 34 **Sample:** DIN 38402 A45
Assigned value: 44,755 % TM (Empirical value) **Target s.d.:** 0,664 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 44,611 | 0,031 | -0,2 | 44,633 | 44,589 | ISO 17025 | XRF (fusion) | - |
| 03 | 44,591 | 0,108 | -0,2 | 44,515 | 44,668 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 43,150 | | -2,4 | 43,150 | | ISO 17025 | ICP-OES | - |
| 06 | 44,750 | 0,212 | 0,0 | 44,600 | 44,900 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 46,200 | 0,028 | 2,2 | 46,180 | 46,220 | no accreditation | XRF (fusion) | - |

RV118

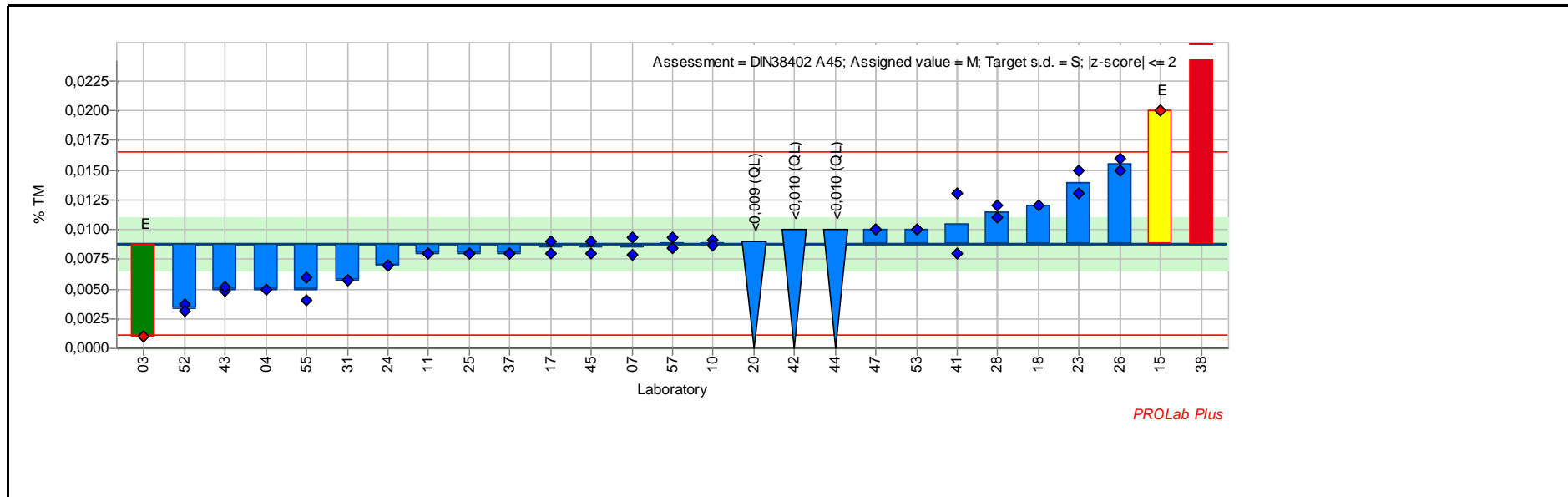
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|--------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 46,720 | 0,283 | 3,0 | 46,520 | 46,920 | no accreditation | XRF (fusion) | - |
| 11 | 44,620 | 0,028 | -0,2 | 44,640 | 44,600 | no accreditation | XRF (fusion) | - |
| 14 | 44,310 | 0,212 | -0,7 | 44,460 | 44,160 | no accreditation | XRF (fusion) | - |
| 15 | 44,570 | 0,042 | -0,3 | 44,600 | 44,540 | no accreditation | XRF (fusion) | - |
| 17 | 45,013 | 0,046 | 0,4 | 45,045 | 44,980 | no accreditation | XRF (fusion) | - |
| 18 | 45,010 | | 0,4 | 45,010 | | no accreditation | XRF (fusion) | - |
| 19 | 44,915 | 0,064 | 0,2 | 44,870 | 44,960 | no accreditation | XRF (fusion) | - |
| 20 | 45,055 | 0,078 | 0,5 | 45,000 | 45,110 | no accreditation | XRF (fusion) | - |
| 21 | 44,340 | 0,184 | -0,6 | 44,470 | 44,210 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 46,110 | 0,014 | 2,0 | 46,120 | 46,100 | no accreditation | XRF (fusion) | - |
| 23 | 47,995 | 0,078 | 4,9 | 48,050 | 47,940 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 44,785 | 0,243 | 0,0 | 44,956 | 44,613 | no accreditation | XRF (fusion) | - |
| 25 | 44,810 | 0,042 | 0,1 | 44,840 | 44,780 | ISO 17025 | XRF (fusion) | - |
| 26 | 45,081 | 0,188 | 0,5 | 44,948 | 45,214 | ISO 17025 | XRF (fusion) | - |
| 28 | 46,642 | 0,129 | 2,8 | 46,551 | 46,734 | ISO 17025 | XRF (fusion) | - |
| 29 | 44,405 | 0,064 | -0,5 | 44,360 | 44,450 | ISO 17025 | XRF (fusion) | - |
| 31 | 55,430 | 12,756 | 16,1 | 46,410 | 64,450 | ISO 17025 | XRF (fusion) | C |
| 32 | 44,400 | 0,028 | -0,5 | 44,380 | 44,420 | no accreditation | XRF (fusion) | - |
| 33 | 46,055 | 0,035 | 2,0 | 46,080 | 46,030 | no accreditation | XRF (Pellet) info only | - |
| 34 | 45,890 | 0,297 | 1,7 | 46,100 | 45,680 | no accreditation | XRF (fusion) | - |
| 36 | 44,300 | 0,141 | -0,7 | 44,200 | 44,400 | ISO 17025 | XRF (fusion) | - |
| 37 | 45,590 | 0,014 | 1,3 | 45,580 | 45,600 | no accreditation | XRF (fusion) | - |
| 38 | 42,390 | | -3,6 | 42,390 | | ISO 17025 | XRF (fusion) | - |
| 40 | 45,460 | 0,014 | 1,1 | 45,450 | 45,470 | ISO 17025 | XRF (fusion) | - |
| 41 | 44,825 | 1,209 | 0,1 | 43,970 | 45,680 | no accreditation | ICP-OES | C |
| 42 | 36,450 | 0,919 | -12,5 | 37,100 | 35,800 | no accreditation | XRF (fusion) | C |
| 43 | 22,883 | 0,162 | -33,0 | 22,997 | 22,768 | no accreditation | other | TXRF |
| 44 | 47,080 | 0,127 | 3,5 | 47,170 | 46,990 | no accreditation | XRF (fusion) | - |
| 45 | 44,245 | 0,021 | -0,8 | 44,260 | 44,230 | ISO 17025 | XRF (fusion) | - |
| 47 | 45,175 | 0,049 | 0,6 | 45,140 | 45,210 | ISO 17025 | XRF (fusion) | - |
| 48 | 47,000 | 0,283 | 3,4 | 46,800 | 47,200 | ISO 17025 | XRF (fusion) | - |
| 49 | 44,965 | 0,163 | 0,3 | 45,080 | 44,850 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 44,155 | 0,007 | -0,9 | 44,160 | 44,150 | no accreditation | XRF (fusion) | - |
| 51 | 44,820 | 0,141 | 0,1 | 44,720 | 44,920 | no accreditation | XRF (fusion) | - |
| 52 | 42,840 | 0,156 | -2,9 | 42,730 | 42,950 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 45,645 | 0,007 | 1,3 | 45,640 | 45,650 | no accreditation | XRF (fusion) | - |
| 55 | 44,730 | 0,076 | 0,0 | 44,783 | 44,676 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 45,510 | | 1,1 | 45,510 | | no accreditation | XRF (fusion) | - |
| 57 | 44,590 | 0,041 | -0,2 | 44,619 | 44,561 | ISO 17025 | XRF (fusion) | - |
| 59 | 44,610 | 0,000 | -0,2 | 44,610 | 44,610 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,004 % TM
Measurand: Cr2O3 **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,009 ± 0,002 % TM **Range of tolerance:** 0,001 - 0,017 % TM (|z-score| ≤ 2,0)
No. of laboratories: 20 **Sample:** DIN 38402 A45
Assigned value: 0,009 % TM (Empirical value) **Target s.d.:** 0,004 % TM (Empirical value) E



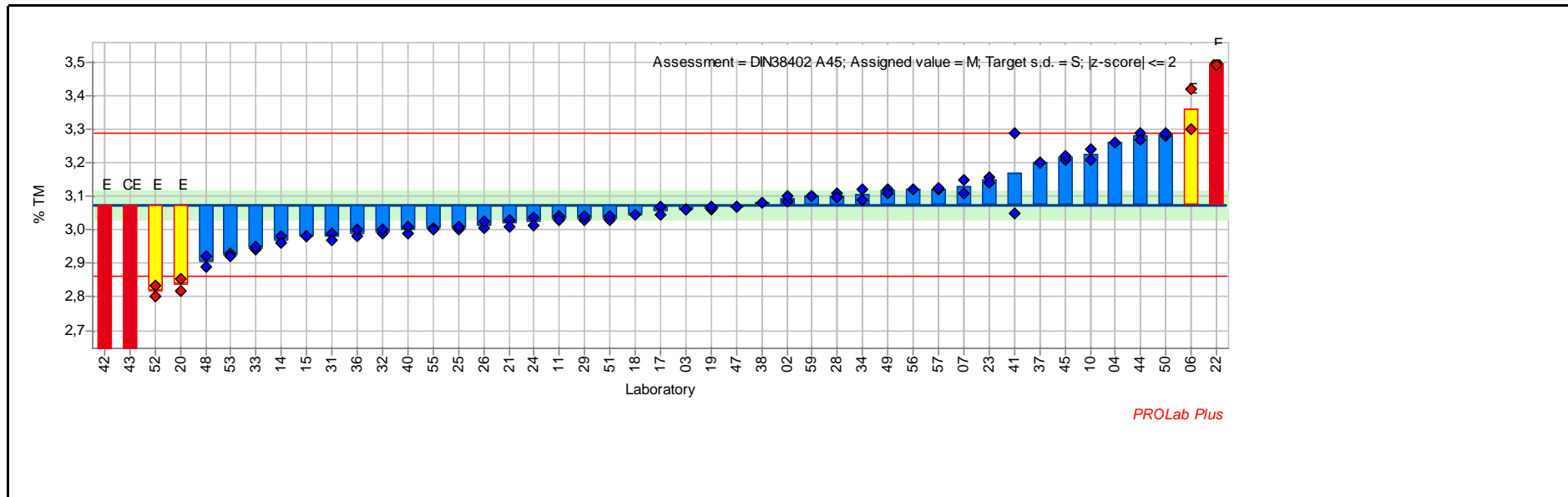
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 03 | 0,001 | 0,000 | -2,0 | 0,001 | 0,001 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,005 | | -1,0 | 0,005 | | ISO 17025 | ICP-OES | - |
| 07 | 0,009 | 0,001 | -0,1 | 0,008 | 0,009 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,009 | 0,000 | 0,0 | 0,009 | 0,009 | no accreditation | XRF (fusion) | - |
| 11 | 0,008 | 0,000 | -0,2 | 0,008 | 0,008 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------------------|
| 14 | | | | | | | other | |
| 15 | 0,020 | 0,000 | 2,9 | 0,020 | 0,020 | no accreditation | XRF (fusion) | - |
| 17 | 0,009 | 0,001 | -0,1 | 0,009 | 0,008 | no accreditation | XRF (fusion) | - |
| 18 | 0,012 | | 0,8 | 0,012 | | no accreditation | XRF (fusion) | - |
| 20 | | | | <0,009 | <0,009 | no accreditation | XRF (fusion) | - |
| 23 | 0,014 | 0,001 | 1,3 | 0,013 | 0,015 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,007 | 0,000 | -0,5 | 0,007 | 0,007 | no accreditation | XRF (fusion) | - |
| 25 | 0,008 | 0,000 | -0,2 | 0,008 | 0,008 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,015 | 0,001 | 1,7 | 0,015 | 0,016 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,011 | 0,001 | 0,7 | 0,012 | 0,011 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,006 | 0,000 | -0,8 | 0,006 | 0,006 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 33 | | | | | | no accreditation | XRF (Pellet) info only | - |
| 37 | 0,008 | 0,000 | -0,2 | 0,008 | 0,008 | no accreditation | XRF (fusion) | - |
| 38 | 0,029 | | 5,3 | 0,029 | | ISO 17025 | ICP-OES | - |
| 41 | 0,010 | 0,004 | 0,4 | 0,008 | 0,013 | no accreditation | ICP-OES | C |
| 42 | | | | <0,010 | <0,010 | no accreditation | XRF (fusion) | - |
| 43 | 0,005 | 0,000 | -1,0 | 0,005 | 0,005 | no accreditation | other | TXRF |
| 44 | | | | <0,010 | <0,010 | no accreditation | XRF (fusion) | - |
| 45 | 0,009 | 0,001 | -0,1 | 0,009 | 0,008 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,010 | 0,000 | 0,3 | 0,010 | 0,010 | ISO 17025 | XRF (fusion) | - |
| 52 | 0,003 | 0,000 | -1,4 | 0,004 | 0,003 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,010 | 0,000 | 0,3 | 0,010 | 0,010 | no accreditation | XRF (fusion) | - |
| 55 | 0,005 | 0,001 | -1,0 | 0,006 | 0,004 | no accreditation | XRF (fusion) | Reconstitution Method |
| 57 | 0,009 | 0,001 | 0,0 | 0,009 | 0,008 | ISO 17025 | XRF (fusion) | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,107 % TM
Measurand: Fe2O3 **Repeat. s.d.:** 0,019 % TM
Mean ± U(Mean): 3,075 ± 0,042 % TM **Range of tolerance:** 2,861 - 3,289 % TM (|z-score| <= 2,0)
No. of laboratories: 41 **Sample:** DIN 38402 A45
Assigned value: 3,075 % TM (Empirical value) **Target s.d.:** 0,107 % TM (Empirical value)



PROLab Plus

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 3,093 | 0,009 | 0,2 | 3,086 | 3,099 | ISO 17025 | XRF (fusion) | - |
| 03 | 3,060 | 0,000 | -0,1 | 3,061 | 3,060 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 3,260 | | 1,7 | 3,260 | | ISO 17025 | ICP-OES | - |
| 06 | 3,360 | 0,085 | 2,7 | 3,420 | 3,300 | no accreditation | Wet chemistry EN196-2 | C |
| 07 | 3,130 | 0,028 | 0,5 | 3,110 | 3,150 | no accreditation | XRF (fusion) | - |

RV118

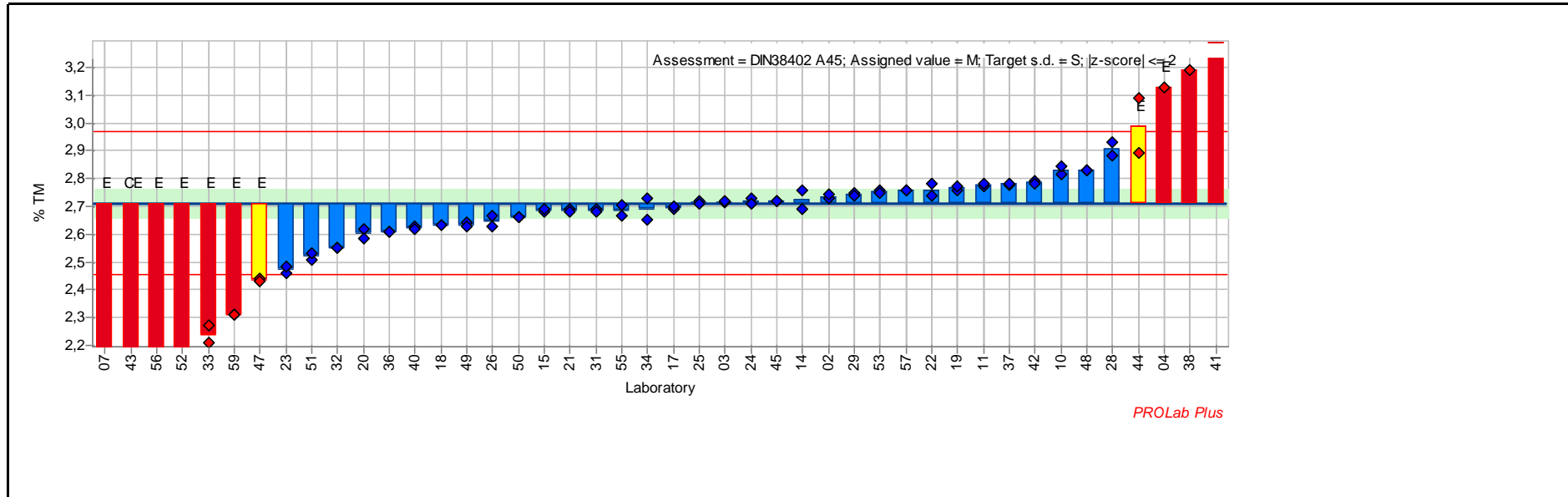
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 3,226 | 0,023 | 1,4 | 3,209 | 3,242 | no accreditation | XRF (fusion) | - |
| 11 | 3,035 | 0,007 | -0,4 | 3,040 | 3,030 | no accreditation | XRF (fusion) | - |
| 14 | 2,970 | 0,014 | -1,0 | 2,980 | 2,960 | no accreditation | XRF (fusion) | - |
| 15 | 2,980 | 0,000 | -0,9 | 2,980 | 2,980 | no accreditation | XRF (fusion) | - |
| 17 | 3,056 | 0,016 | -0,2 | 3,068 | 3,045 | no accreditation | XRF (fusion) | - |
| 18 | 3,047 | | -0,3 | 3,047 | | no accreditation | XRF (fusion) | - |
| 19 | 3,065 | 0,007 | -0,1 | 3,060 | 3,070 | no accreditation | XRF (fusion) | - |
| 20 | 2,837 | 0,026 | -2,2 | 2,818 | 2,855 | no accreditation | XRF (fusion) | - |
| 21 | 3,020 | 0,014 | -0,5 | 3,030 | 3,010 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 3,495 | 0,007 | 3,9 | 3,500 | 3,490 | no accreditation | XRF (fusion) | - |
| 23 | 3,149 | 0,012 | 0,7 | 3,157 | 3,140 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 3,026 | 0,015 | -0,5 | 3,036 | 3,015 | no accreditation | XRF (fusion) | - |
| 25 | 3,005 | 0,007 | -0,7 | 3,000 | 3,010 | ISO 17025 | XRF (fusion) | - |
| 26 | 3,014 | 0,015 | -0,6 | 3,004 | 3,025 | ISO 17025 | XRF (fusion) | - |
| 28 | 3,103 | 0,011 | 0,3 | 3,110 | 3,095 | ISO 17025 | XRF (fusion) | - |
| 29 | 3,035 | 0,007 | -0,4 | 3,030 | 3,040 | ISO 17025 | XRF (fusion) | - |
| 31 | 2,980 | 0,014 | -0,9 | 2,990 | 2,970 | ISO 17025 | XRF (fusion) | - |
| 32 | 2,995 | 0,007 | -0,7 | 2,990 | 3,000 | no accreditation | XRF (fusion) | - |
| 33 | 2,945 | 0,007 | -1,2 | 2,940 | 2,950 | no accreditation | XRF (Pellet) info only | - |
| 34 | 3,105 | 0,021 | 0,3 | 3,120 | 3,090 | no accreditation | XRF (fusion) | - |
| 36 | 2,990 | 0,014 | -0,8 | 2,980 | 3,000 | ISO 17025 | XRF (fusion) | - |
| 37 | 3,200 | 0,000 | 1,2 | 3,200 | 3,200 | no accreditation | XRF (fusion) | - |
| 38 | 3,080 | | 0,0 | 3,080 | | ISO 17025 | XRF (fusion) | - |
| 40 | 3,000 | 0,014 | -0,7 | 2,990 | 3,010 | ISO 17025 | XRF (fusion) | - |
| 41 | 3,170 | 0,170 | 0,9 | 3,050 | 3,290 | no accreditation | ICP-OES | C |
| 42 | 2,020 | 0,071 | -9,8 | 2,070 | 1,970 | no accreditation | XRF (fusion) | C |
| 43 | 2,274 | 0,063 | -7,5 | 2,230 | 2,319 | no accreditation | other | C, TXRF |
| 44 | 3,280 | 0,014 | 1,9 | 3,290 | 3,270 | no accreditation | XRF (fusion) | - |
| 45 | 3,215 | 0,007 | 1,3 | 3,210 | 3,220 | ISO 17025 | XRF (fusion) | - |
| 47 | 3,070 | 0,000 | 0,0 | 3,070 | 3,070 | ISO 17025 | XRF (fusion) | - |
| 48 | 2,905 | 0,021 | -1,6 | 2,890 | 2,920 | ISO 17025 | XRF (fusion) | - |
| 49 | 3,115 | 0,007 | 0,4 | 3,120 | 3,110 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 3,285 | 0,007 | 2,0 | 3,280 | 3,290 | no accreditation | XRF (fusion) | - |
| 51 | 3,035 | 0,007 | -0,4 | 3,030 | 3,040 | no accreditation | XRF (fusion) | - |
| 52 | 2,818 | 0,023 | -2,4 | 2,802 | 2,834 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 2,925 | 0,007 | -1,4 | 2,930 | 2,920 | no accreditation | XRF (fusion) | - |
| 55 | 3,003 | 0,001 | -0,7 | 3,004 | 3,003 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 3,120 | | 0,4 | 3,120 | | no accreditation | XRF (fusion) | - |
| 57 | 3,122 | 0,000 | 0,4 | 3,122 | 3,123 | ISO 17025 | XRF (fusion) | - |
| 59 | 3,100 | 0,000 | 0,2 | 3,100 | 3,100 | no accreditation | XRF (fusion) | - |

RV118

| | | | | |
|-----------------------------|-------------------------------------|----------------------------|---|----------|
| Sample: | FLX-CRM 121 | Reprod. s.d.: | 0,129 % TM | |
| Measurand: | K2O | Repeat. s.d.: | 0,010 % TM | |
| Mean ± U(Mean): | 2,712 ± 0,052 % TM | Range of tolerance: | 2,454 - 2,970 % TM (z-score ≤ 2,0) | E |
| No. of laboratories: | 39 | Sample | DIN 38402 A45 | |
| Assigned value | 2,712 % TM (Empirical value) | Target s.d. | 0,129 % TM (Empirical value) | |



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-------------|
| 02 | 2,736 | 0,010 | 0,2 | 2,729 | 2,743 | ISO 17025 | XRF (fusion) | - |
| 03 | 2,716 | 0,003 | 0,0 | 2,715 | 2,718 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 3,130 | | 3,2 | 3,130 | | ISO 17025 | ICP-OES | - |
| 07 | 1,720 | 0,014 | -7,7 | 1,710 | 1,730 | no accreditation | XRF (fusion) | - |
| 10 | 2,829 | 0,021 | 0,9 | 2,814 | 2,844 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 2,775 | 0,007 | 0,5 | 2,770 | 2,780 | no accreditation | XRF (fusion) | - |
| 14 | 2,725 | 0,049 | 0,1 | 2,760 | 2,690 | no accreditation | XRF (fusion) | - |
| 15 | 2,685 | 0,007 | -0,2 | 2,680 | 2,690 | no accreditation | XRF (fusion) | - |
| 17 | 2,694 | 0,006 | -0,1 | 2,690 | 2,698 | no accreditation | XRF (fusion) | - |
| 18 | 2,633 | | -0,6 | 2,633 | | no accreditation | XRF (fusion) | - |
| 19 | 2,765 | 0,007 | 0,4 | 2,760 | 2,770 | no accreditation | XRF (fusion) | - |
| 20 | 2,602 | 0,026 | -0,9 | 2,620 | 2,583 | no accreditation | ICP-OES | - |
| 21 | 2,685 | 0,007 | -0,2 | 2,690 | 2,680 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 2,760 | 0,028 | 0,4 | 2,740 | 2,780 | no accreditation | XRF (fusion) | - |
| 23 | 2,473 | 0,017 | -1,8 | 2,461 | 2,485 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 2,718 | 0,013 | 0,0 | 2,727 | 2,708 | no accreditation | XRF (fusion) | - |
| 25 | 2,715 | 0,007 | 0,0 | 2,720 | 2,710 | ISO 17025 | XRF (fusion) | - |
| 26 | 2,649 | 0,027 | -0,5 | 2,668 | 2,630 | ISO 17025 | ICP-OES | - |
| 28 | 2,906 | 0,035 | 1,5 | 2,881 | 2,931 | ISO 17025 | XRF (fusion) | - |
| 29 | 2,745 | 0,007 | 0,3 | 2,750 | 2,740 | ISO 17025 | XRF (fusion) | - |
| 31 | 2,685 | 0,007 | -0,2 | 2,690 | 2,680 | ISO 17025 | XRF (fusion) | - |
| 32 | 2,550 | 0,000 | -1,3 | 2,550 | 2,550 | no accreditation | XRF (fusion) | - |
| 33 | 2,240 | 0,042 | -3,7 | 2,270 | 2,210 | no accreditation | XRF (Pellet) info only | - |
| 34 | 2,690 | 0,057 | -0,2 | 2,730 | 2,650 | no accreditation | XRF (fusion) | - |
| 36 | 2,610 | 0,000 | -0,8 | 2,610 | 2,610 | no accreditation | other | AAS |
| 37 | 2,780 | 0,003 | 0,5 | 2,778 | 2,782 | no accreditation | XRF (fusion) | - |
| 38 | 3,190 | | 3,7 | 3,190 | | ISO 17025 | ICP-OES | - |
| 40 | 2,625 | 0,007 | -0,7 | 2,630 | 2,620 | ISO 17025 | XRF (fusion) | - |
| 41 | 3,695 | 0,474 | 7,6 | 3,360 | 4,030 | no accreditation | ICP-OES | C |
| 42 | 2,785 | 0,007 | 0,6 | 2,790 | 2,780 | no accreditation | XRF (fusion) | - |
| 43 | 1,807 | 0,089 | -7,0 | 1,744 | 1,870 | no accreditation | other | C, TXRF |
| 44 | 2,990 | 0,141 | 2,2 | 2,890 | 3,090 | no accreditation | XRF (fusion) | C |
| 45 | 2,720 | 0,000 | 0,1 | 2,720 | 2,720 | ISO 17025 | XRF (fusion) | - |
| 47 | 2,435 | 0,007 | -2,1 | 2,440 | 2,430 | ISO 17025 | XRF (fusion) | - |
| 48 | 2,830 | 0,000 | 0,9 | 2,830 | 2,830 | ISO 17025 | XRF (fusion) | - |
| 49 | 2,635 | 0,007 | -0,6 | 2,640 | 2,630 | no accreditation | XRF (fusion) | - |
| 50 | 2,660 | 0,000 | -0,4 | 2,660 | 2,660 | no accreditation | XRF (fusion) | - |

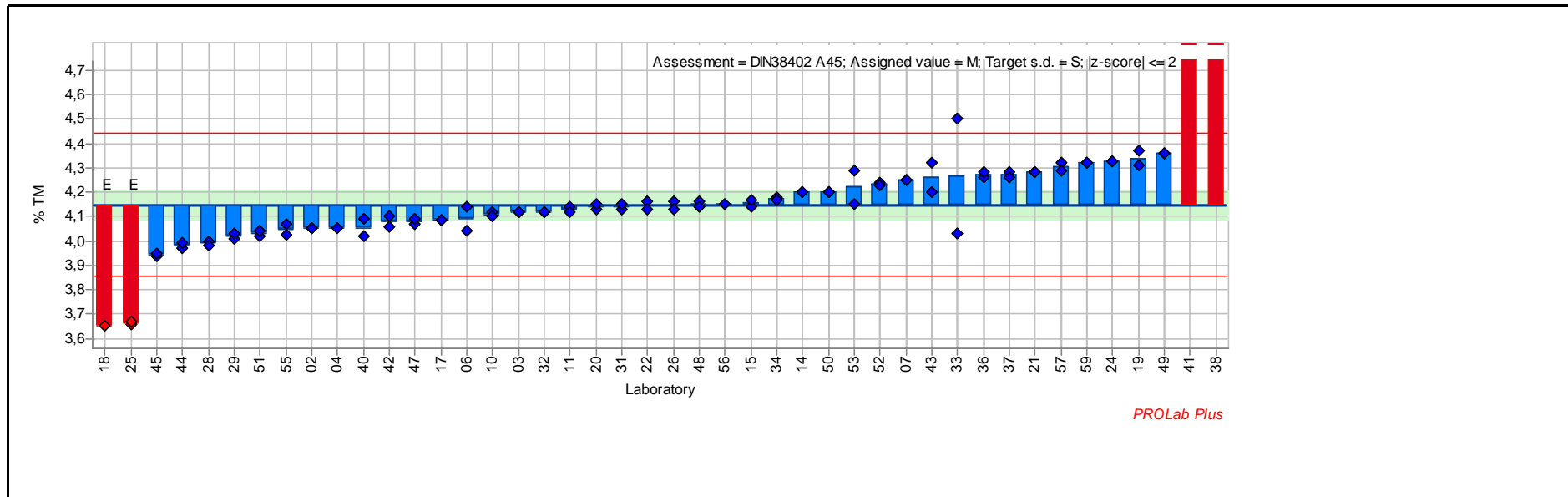
RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 51 | 2,520 | 0,014 | -1,5 | 2,510 | 2,530 | no accreditation | XRF (fusion) | - |
| 52 | 2,184 | 0,001 | -4,1 | 2,184 | 2,185 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 2,755 | 0,007 | 0,3 | 2,760 | 2,750 | no accreditation | XRF (fusion) | - |
| 55 | 2,687 | 0,026 | -0,2 | 2,668 | 2,705 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 2,160 | | -4,3 | 2,160 | | no accreditation | XRF (fusion) | - |
| 57 | 2,757 | 0,000 | 0,3 | 2,756 | 2,757 | ISO 17025 | XRF (fusion) | - |
| 59 | 2,310 | 0,000 | -3,1 | 2,310 | 2,310 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,147 % TM
Measurand: LOI (1h @ 950°C) observed **Repeat. s.d.:** 0,019 % TM
Mean ± U(Mean): 4,148 ± 0,055 % TM **Range of tolerance:** 3,854 - 4,443 % TM (|z-score| <= 2,0)
No. of laboratories: 44 **Sample:** DIN 38402 A45
Assigned value: 4,148 % TM (Empirical value) **Target s.d.:** 0,147 % TM (Empirical value)

E



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 02 | 4,050 | 0,000 | -0,7 | 4,050 | 4,050 | ISO 17025 | 1h@950°C | - |
| 03 | 4,120 | 0,000 | -0,2 | 4,120 | 4,120 | no accreditation | Wet chemistry EN196-2 | - |
| 04 | 4,050 | | -0,7 | 4,050 | | ISO 17025 | 1h@950°C | - |
| 06 | 4,090 | 0,071 | -0,4 | 4,140 | 4,040 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 4,250 | 0,000 | 0,7 | 4,250 | 4,250 | no accreditation | 1h@950°C | - |

RV118

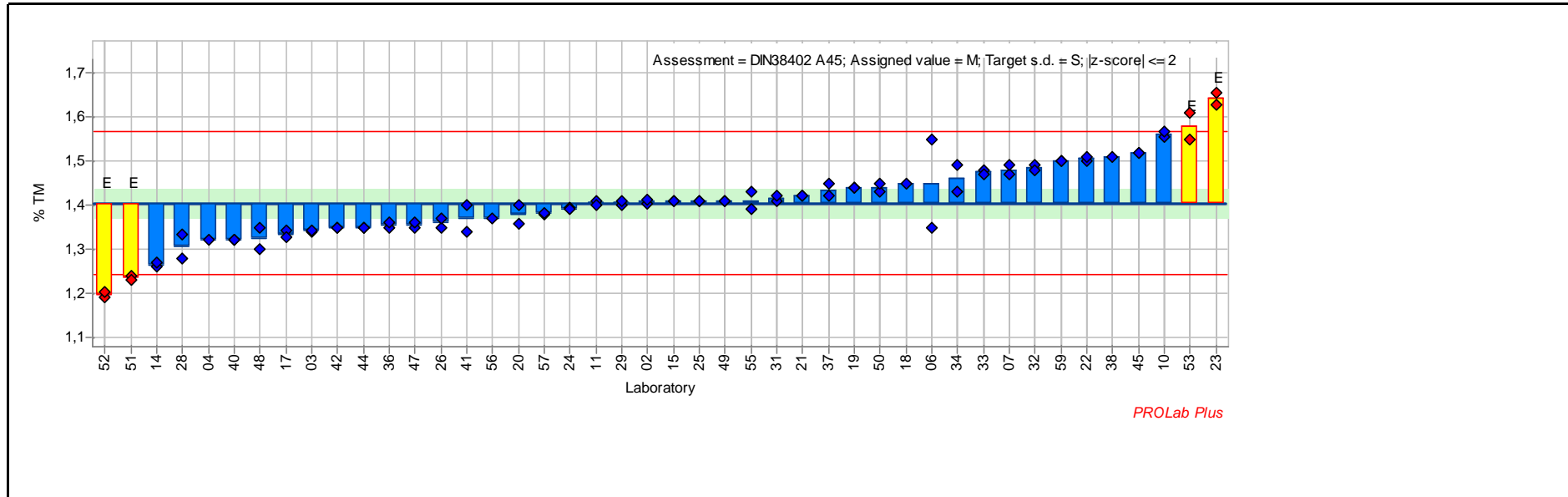
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|----------------|
| 10 | 4,110 | 0,014 | -0,3 | 4,120 | 4,100 | no accreditation | XRF (fusion) | - |
| 11 | 4,130 | 0,014 | -0,1 | 4,140 | 4,120 | no accreditation | Wet chemistry EN196-2 | - |
| 14 | 4,200 | 0,000 | 0,3 | 4,200 | 4,200 | no accreditation | 1h@950°C | corr. EN 196-2 |
| 15 | 4,155 | 0,021 | 0,0 | 4,140 | 4,170 | no accreditation | 1h@950°C | - |
| 17 | 4,085 | 0,003 | -0,4 | 4,083 | 4,087 | no accreditation | 1h@950°C | - |
| 18 | 3,650 | | -3,4 | 3,650 | | no accreditation | 1h@950°C | - |
| 19 | 4,340 | 0,042 | 1,3 | 4,370 | 4,310 | no accreditation | 1h@950°C | - |
| 20 | 4,140 | 0,014 | -0,1 | 4,130 | 4,150 | no accreditation | 1h@950°C | - |
| 21 | 4,280 | 0,000 | 0,9 | 4,280 | 4,280 | ISO 17025 | Wet chemistry EN196-2 | - |
| 22 | 4,145 | 0,021 | 0,0 | 4,160 | 4,130 | no accreditation | 1h@950°C | - |
| 24 | 4,327 | 0,000 | 1,2 | 4,327 | 4,327 | no accreditation | 1h@950°C | - |
| 25 | 3,665 | 0,007 | -3,3 | 3,660 | 3,670 | ISO 17025 | 1h@950°C | - |
| 26 | 4,145 | 0,021 | 0,0 | 4,160 | 4,130 | ISO 17025 | 1h@950°C | - |
| 28 | 3,990 | 0,014 | -1,1 | 4,000 | 3,980 | ISO 17025 | 1h@950°C | - |
| 29 | 4,020 | 0,014 | -0,9 | 4,010 | 4,030 | ISO 17025 | 1h@950°C | - |
| 31 | 4,140 | 0,014 | -0,1 | 4,130 | 4,150 | no accreditation | 1h@950°C | - |
| 32 | 4,120 | 0,000 | -0,2 | 4,120 | 4,120 | no accreditation | 1h@950°C | - |
| 33 | 4,265 | 0,332 | 0,8 | 4,030 | 4,500 | no accreditation | 1h@950°C | C |
| 34 | 4,175 | 0,007 | 0,2 | 4,180 | 4,170 | no accreditation | 1h@950°C | - |
| 36 | 4,270 | 0,014 | 0,8 | 4,260 | 4,280 | ISO 17025 | 1h@950°C | - |
| 37 | 4,270 | 0,014 | 0,8 | 4,280 | 4,260 | no accreditation | 1h@950°C | - |
| 38 | 8,840 | | 31,9 | 8,840 | | no accreditation | 1h@950°C | - |
| 40 | 4,055 | 0,049 | -0,6 | 4,020 | 4,090 | ISO 17025 | XRF (fusion) | - |
| 41 | 5,520 | 0,156 | 9,3 | 5,630 | 5,410 | no accreditation | 1h@950°C | C |
| 42 | 4,080 | 0,028 | -0,5 | 4,060 | 4,100 | no accreditation | 1h@950°C | - |
| 43 | 4,260 | 0,085 | 0,8 | 4,200 | 4,320 | no accreditation | 1h@950°C | - |
| 44 | 3,980 | 0,014 | -1,1 | 3,970 | 3,990 | no accreditation | 1h@950°C | - |
| 45 | 3,945 | 0,007 | -1,4 | 3,940 | 3,950 | ISO 17025 | 1h@950°C | - |
| 47 | 4,080 | 0,014 | -0,5 | 4,070 | 4,090 | no accreditation | 1h@950°C | - |
| 48 | 4,150 | 0,014 | 0,0 | 4,160 | 4,140 | ISO 17025 | 1h@950°C | - |
| 49 | 4,360 | 0,000 | 1,4 | 4,360 | 4,360 | no accreditation | combustion | - |
| 50 | 4,200 | 0,000 | 0,3 | 4,200 | 4,200 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-----------------------|
| 51 | 4,030 | 0,014 | -0,8 | 4,020 | 4,040 | ISO 17025 | XRF (fusion) | - |
| 52 | 4,235 | 0,007 | 0,6 | 4,240 | 4,230 | no accreditation | 1h@950°C | - |
| 53 | 4,220 | 0,099 | 0,5 | 4,290 | 4,150 | no accreditation | 1h@950°C | - |
| 55 | 4,045 | 0,032 | -0,7 | 4,023 | 4,068 | no accreditation | 1h@950°C | Reconstitution Method |
| 56 | 4,150 | | 0,0 | 4,150 | | no accreditation | 1h@950°C | - |
| 57 | 4,305 | 0,021 | 1,1 | 4,320 | 4,290 | ISO 17025 | 1h@950°C | - |
| 59 | 4,320 | 0,000 | 1,2 | 4,320 | 4,320 | no accreditation | 1h@950°C | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,082 % TM
Measurand: MgO **Repeat. s.d.:** 0,012 % TM
Mean ± U(Mean): 1,405 ± 0,032 % TM **Range of tolerance:** 1,241 - 1,568 % TM (|z-score| <= 2,0)
No. of laboratories: 41 **Sample:** DIN 38402 A45
Assigned value: 1,405 % TM (Empirical value) **Target s.d.:** 0,082 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 1,408 | 0,006 | 0,0 | 1,404 | 1,412 | ISO 17025 | XRF (fusion) | - |
| 03 | 1,342 | 0,003 | -0,8 | 1,340 | 1,343 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 1,320 | | -1,0 | 1,320 | | ISO 17025 | ICP-OES | - |
| 06 | 1,450 | 0,141 | 0,6 | 1,550 | 1,350 | no accreditation | Wet chemistry EN196-2 | C |
| 07 | 1,480 | 0,014 | 0,9 | 1,470 | 1,490 | no accreditation | XRF (fusion) | - |

RV118

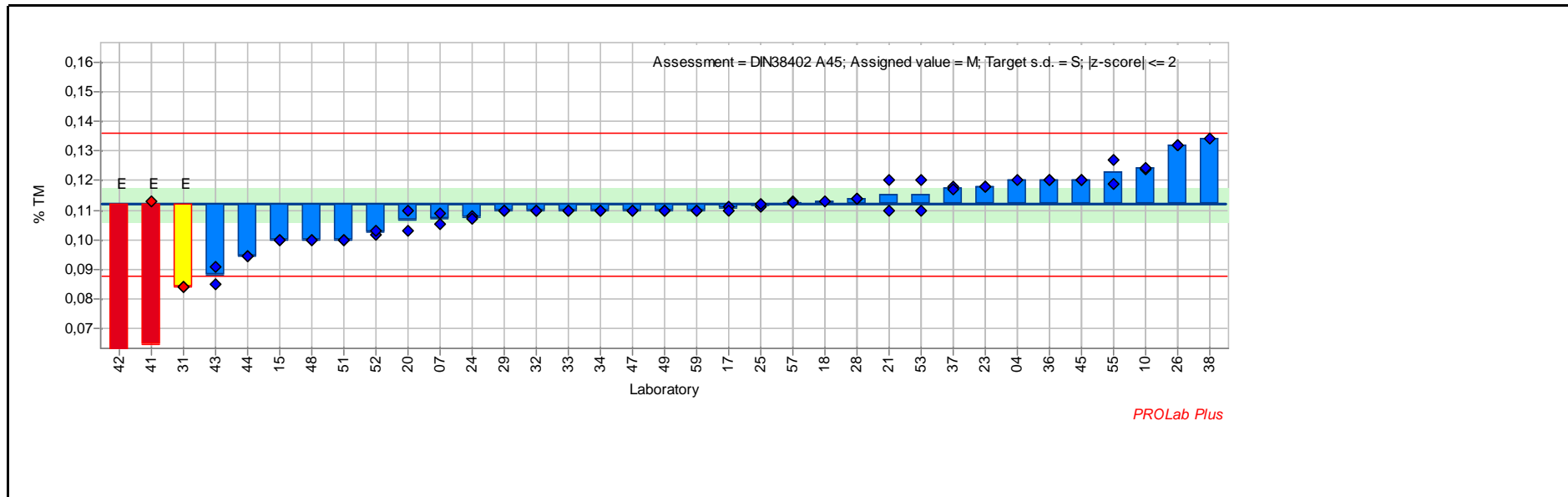
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 1,561 | 0,007 | 1,9 | 1,556 | 1,566 | no accreditation | XRF (fusion) | - |
| 11 | 1,405 | 0,007 | 0,0 | 1,410 | 1,400 | no accreditation | XRF (fusion) | - |
| 14 | 1,265 | 0,007 | -1,7 | 1,260 | 1,270 | no accreditation | XRF (fusion) | - |
| 15 | 1,410 | 0,000 | 0,1 | 1,410 | 1,410 | no accreditation | XRF (fusion) | - |
| 17 | 1,335 | 0,012 | -0,9 | 1,343 | 1,326 | no accreditation | XRF (fusion) | - |
| 18 | 1,448 | | 0,5 | 1,448 | | no accreditation | XRF (fusion) | - |
| 19 | 1,440 | 0,000 | 0,4 | 1,440 | 1,440 | no accreditation | XRF (fusion) | - |
| 20 | 1,379 | 0,028 | -0,3 | 1,399 | 1,359 | no accreditation | XRF (fusion) | - |
| 21 | 1,420 | 0,000 | 0,2 | 1,420 | 1,420 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 1,505 | 0,007 | 1,2 | 1,500 | 1,510 | no accreditation | XRF (fusion) | - |
| 23 | 1,642 | 0,020 | 2,9 | 1,656 | 1,628 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 1,392 | 0,003 | -0,2 | 1,394 | 1,390 | no accreditation | XRF (fusion) | - |
| 25 | 1,410 | 0,000 | 0,1 | 1,410 | 1,410 | ISO 17025 | XRF (fusion) | - |
| 26 | 1,361 | 0,015 | -0,5 | 1,350 | 1,371 | ISO 17025 | XRF (fusion) | - |
| 28 | 1,305 | 0,038 | -1,2 | 1,278 | 1,332 | ISO 17025 | XRF (fusion) | - |
| 29 | 1,405 | 0,007 | 0,0 | 1,400 | 1,410 | ISO 17025 | XRF (fusion) | - |
| 31 | 1,415 | 0,007 | 0,1 | 1,410 | 1,420 | ISO 17025 | XRF (fusion) | - |
| 32 | 1,485 | 0,007 | 1,0 | 1,490 | 1,480 | no accreditation | XRF (fusion) | - |
| 33 | 1,475 | 0,007 | 0,9 | 1,480 | 1,470 | no accreditation | XRF (Pellet) info only | - |
| 34 | 1,460 | 0,042 | 0,7 | 1,430 | 1,490 | no accreditation | XRF (fusion) | - |
| 36 | 1,355 | 0,007 | -0,6 | 1,350 | 1,360 | ISO 17025 | XRF (fusion) | - |
| 37 | 1,435 | 0,021 | 0,4 | 1,450 | 1,420 | no accreditation | XRF (fusion) | - |
| 38 | 1,510 | | 1,3 | 1,510 | | ISO 17025 | XRF (fusion) | - |
| 40 | 1,320 | 0,000 | -1,0 | 1,320 | 1,320 | ISO 17025 | XRF (fusion) | - |
| 41 | 1,370 | 0,042 | -0,4 | 1,340 | 1,400 | no accreditation | ICP-OES | - |
| 42 | 1,350 | 0,000 | -0,7 | 1,350 | 1,350 | no accreditation | XRF (fusion) | - |
| 44 | 1,350 | 0,000 | -0,7 | 1,350 | 1,350 | no accreditation | XRF (fusion) | - |
| 45 | 1,520 | 0,000 | 1,4 | 1,520 | 1,520 | ISO 17025 | XRF (fusion) | - |
| 47 | 1,355 | 0,007 | -0,6 | 1,350 | 1,360 | ISO 17025 | XRF (fusion) | - |
| 48 | 1,325 | 0,035 | -1,0 | 1,300 | 1,350 | ISO 17025 | XRF (fusion) | - |
| 49 | 1,410 | 0,000 | 0,1 | 1,410 | 1,410 | no accreditation | XRF (fusion) | - |
| 50 | 1,440 | 0,014 | 0,4 | 1,430 | 1,450 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 51 | 1,235 | 0,007 | -2,1 | 1,240 | 1,230 | no accreditation | XRF (fusion) | - |
| 52 | 1,198 | 0,009 | -2,5 | 1,191 | 1,204 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 1,580 | 0,042 | 2,1 | 1,610 | 1,550 | no accreditation | XRF (fusion) | - |
| 55 | 1,410 | 0,028 | 0,1 | 1,430 | 1,391 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 1,370 | | -0,4 | 1,370 | | no accreditation | XRF (fusion) | - |
| 57 | 1,381 | 0,003 | -0,3 | 1,379 | 1,383 | ISO 17025 | XRF (fusion) | - |
| 59 | 1,500 | 0,000 | 1,2 | 1,500 | 1,500 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,012 % TM
Measurand: Mn2O3 **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,112 ± 0,006 % TM **Range of tolerance:** 0,088 - 0,136 % TM (|z-score| <= 2,0)
No. of laboratories: 30 **Sample:** DIN 38402 A45
Assigned value: 0,112 % TM (Empirical value) **Target s.d.:** 0,012 % TM (Empirical value)



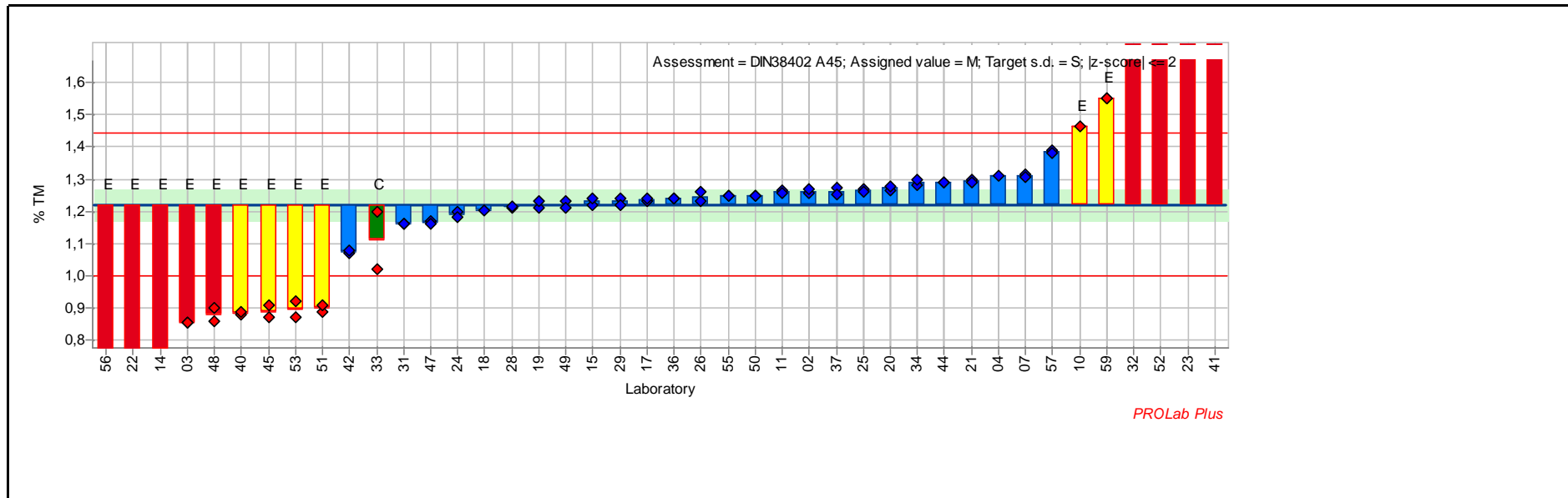
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 04 | 0,120 | | 0,7 | 0,120 | | ISO 17025 | ICP-OES | - |
| 07 | 0,107 | 0,002 | -0,4 | 0,109 | 0,105 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,124 | 0,000 | 1,0 | 0,124 | 0,124 | no accreditation | XRF (fusion) | - |
| 14 | | | | | | | | - |
| 15 | 0,100 | 0,000 | -1,0 | 0,100 | 0,100 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------------------|
| 17 | 0,111 | 0,001 | -0,1 | 0,111 | 0,110 | no accreditation | XRF (fusion) | - |
| 18 | 0,113 | | 0,1 | 0,113 | | no accreditation | XRF (fusion) | - |
| 20 | 0,106 | 0,005 | -0,4 | 0,103 | 0,110 | no accreditation | XRF (fusion) | - |
| 21 | 0,115 | 0,007 | 0,3 | 0,120 | 0,110 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,118 | 0,000 | 0,5 | 0,118 | 0,118 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,107 | 0,001 | -0,4 | 0,108 | 0,107 | no accreditation | XRF (fusion) | - |
| 25 | 0,112 | 0,001 | 0,0 | 0,111 | 0,112 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,132 | 0,000 | 1,7 | 0,132 | 0,132 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,114 | 0,000 | 0,2 | 0,114 | 0,114 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,084 | 0,000 | -2,3 | 0,084 | 0,084 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 32 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 33 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 36 | 0,120 | 0,000 | 0,7 | 0,120 | 0,120 | ISO 17025 | XRF (fusion) | - |
| 37 | 0,117 | 0,001 | 0,5 | 0,118 | 0,117 | no accreditation | XRF (fusion) | - |
| 38 | 0,134 | | 1,8 | 0,134 | | ISO 17025 | ICP-OES | - |
| 41 | 0,065 | 0,069 | -3,9 | 0,016 | 0,113 | no accreditation | ICP-OES | C |
| 42 | 0,057 | 0,001 | -4,5 | 0,058 | 0,056 | no accreditation | XRF (fusion) | - |
| 43 | 0,088 | 0,004 | -2,0 | 0,085 | 0,091 | no accreditation | other | TXRF |
| 44 | 0,095 | 0,000 | -1,4 | 0,095 | 0,095 | no accreditation | XRF (fusion) | calc. from MnO |
| 45 | 0,120 | 0,000 | 0,7 | 0,120 | 0,120 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 48 | 0,100 | 0,000 | -1,0 | 0,100 | 0,100 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 51 | 0,100 | 0,000 | -1,0 | 0,100 | 0,100 | no accreditation | XRF (fusion) | - |
| 52 | 0,102 | 0,001 | -0,8 | 0,102 | 0,103 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,115 | 0,007 | 0,3 | 0,120 | 0,110 | no accreditation | XRF (fusion) | - |
| 55 | 0,123 | 0,006 | 0,9 | 0,127 | 0,119 | no accreditation | XRF (fusion) | Reconstitution Method |
| 57 | 0,113 | 0,000 | 0,1 | 0,113 | 0,113 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,111 % TM
Measurand: Na2O **Repeat. s.d.:** 0,015 % TM
Mean ± U(Mean): 1,222 ± 0,047 % TM **Range of tolerance:** 0,999 - 1,444 % TM (|z-score| ≤ 2,0)
No. of laboratories: 35 **Sample:** DIN 38402 A45 E
Assigned value: 1,222 % TM (Empirical value) **Target s.d.:** 0,111 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 1,262 | 0,008 | 0,4 | 1,256 | 1,268 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,854 | 0,001 | -3,3 | 0,853 | 0,854 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 1,310 | | 0,8 | 1,310 | | ISO 17025 | ICP-OES | - |
| 07 | 1,311 | 0,007 | 0,8 | 1,316 | 1,306 | no accreditation | XRF (Pellet) info only | - |
| 10 | 1,465 | | 2,2 | 1,465 | <0,014 | no accreditation | XRF (fusion) | - |

RV118

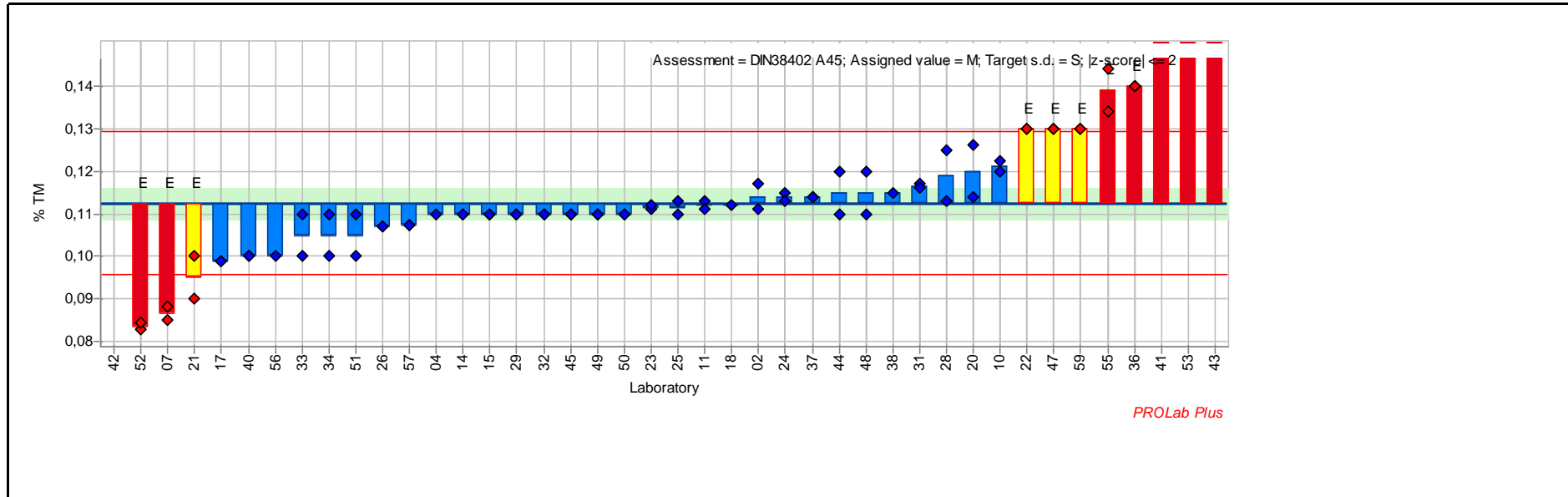
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 1,261 | 0,006 | 0,4 | 1,266 | 1,257 | no accreditation | XRF (fusion) | - |
| 14 | 0,770 | 0,000 | -4,1 | 0,770 | 0,770 | no accreditation | other | EDXRF fusion |
| 15 | 1,230 | 0,014 | 0,1 | 1,220 | 1,240 | no accreditation | XRF (fusion) | - |
| 17 | 1,236 | 0,004 | 0,1 | 1,233 | 1,239 | no accreditation | XRF (fusion) | - |
| 18 | 1,204 | | -0,2 | 1,204 | | no accreditation | XRF (fusion) | - |
| 19 | 1,220 | 0,014 | 0,0 | 1,210 | 1,230 | no accreditation | XRF (fusion) | - |
| 20 | 1,272 | 0,009 | 0,4 | 1,265 | 1,278 | no accreditation | ICP-OES | - |
| 21 | 1,295 | 0,007 | 0,7 | 1,300 | 1,290 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,350 | 0,000 | -7,8 | 0,350 | 0,350 | no accreditation | XRF (fusion) | - |
| 23 | 3,004 | 0,110 | 16,0 | 2,926 | 3,082 | ISO 17025 | XRF (Pellet) info only | C |
| 24 | 1,190 | 0,012 | -0,3 | 1,198 | 1,181 | no accreditation | XRF (fusion) | - |
| 25 | 1,265 | 0,007 | 0,4 | 1,270 | 1,260 | ISO 17025 | XRF (fusion) | - |
| 26 | 1,246 | 0,021 | 0,2 | 1,231 | 1,261 | ISO 17025 | ICP-OES | - |
| 28 | 1,214 | 0,001 | -0,1 | 1,213 | 1,214 | ISO 17025 | XRF (fusion) | - |
| 29 | 1,230 | 0,014 | 0,1 | 1,240 | 1,220 | ISO 17025 | XRF (fusion) | - |
| 31 | 1,160 | 0,000 | -0,6 | 1,160 | 1,160 | ISO 17025 | XRF (fusion) | - |
| 32 | 1,935 | 0,021 | 6,4 | 1,950 | 1,920 | no accreditation | XRF (fusion) | - |
| 33 | 1,110 | 0,127 | -1,0 | 1,200 | 1,020 | no accreditation | XRF (Pellet) info only | C |
| 34 | 1,290 | 0,014 | 0,6 | 1,280 | 1,300 | no accreditation | XRF (fusion) | - |
| 36 | 1,240 | 0,000 | 0,2 | 1,240 | 1,240 | no accreditation | other | AAS |
| 37 | 1,263 | 0,014 | 0,4 | 1,273 | 1,253 | no accreditation | XRF (fusion) | - |
| 40 | 0,885 | 0,007 | -3,0 | 0,880 | 0,890 | no accreditation | other | AAS |
| 41 | 6,900 | 2,942 | 51,0 | 4,820 | 8,980 | no accreditation | ICP-OES | C |
| 42 | 1,075 | 0,007 | -1,3 | 1,070 | 1,080 | no accreditation | XRF (fusion) | - |
| 44 | 1,290 | 0,000 | 0,6 | 1,290 | 1,290 | no accreditation | XRF (fusion) | - |
| 45 | 0,890 | 0,028 | -3,0 | 0,870 | 0,910 | ISO 17025 | XRF (fusion) | - |
| 47 | 1,165 | 0,007 | -0,5 | 1,170 | 1,160 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,880 | 0,028 | -3,1 | 0,860 | 0,900 | ISO 17025 | XRF (fusion) | - |
| 49 | 1,220 | 0,014 | 0,0 | 1,230 | 1,210 | no accreditation | XRF (fusion) | - |
| 50 | 1,250 | 0,000 | 0,3 | 1,250 | 1,250 | no accreditation | XRF (fusion) | - |
| 51 | 0,900 | 0,014 | -2,9 | 0,890 | 0,910 | no accreditation | XRF (fusion) | - |
| 52 | 2,776 | 0,028 | 14,0 | 2,795 | 2,756 | no accreditation | XRF (Pellet) info only | EDRFA |

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| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-----------------------|
| 53 | 0,895 | 0,035 | -2,9 | 0,920 | 0,870 | no accreditation | XRF (fusion) | - |
| 55 | 1,248 | 0,001 | 0,2 | 1,248 | 1,247 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,280 | | -8,5 | 0,280 | | no accreditation | XRF (fusion) | - |
| 57 | 1,385 | 0,004 | 1,5 | 1,388 | 1,382 | ISO 17025 | XRF (fusion) | - |
| 59 | 1,550 | 0,000 | 2,9 | 1,550 | 1,550 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,008 % TM
Measurand: P2O5 **Repeat. s.d.:** 0,006 % TM E
Mean ± U(Mean): 0,113 ± 0,004 % TM **Range of tolerance:** 0,096 - 0,129 % TM (|z-score| ≤ 2,0) BE
No. of laboratories: 35 **Sample:** DIN 38402 A45
Assigned value: 0,113 % TM (Empirical value) **Target s.d.:** 0,008 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 02 | 0,114 | 0,004 | 0,2 | 0,111 | 0,117 | ISO 17025 | XRF (fusion) | - |
| 04 | 0,110 | | -0,3 | 0,110 | | ISO 17025 | ICP-OES | - |
| 07 | 0,087 | 0,002 | -3,1 | 0,085 | 0,088 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,121 | 0,002 | 1,0 | 0,120 | 0,122 | no accreditation | XRF (fusion) | - |
| 11 | 0,112 | 0,001 | -0,1 | 0,113 | 0,111 | no accreditation | XRF (fusion) | - |

RV118

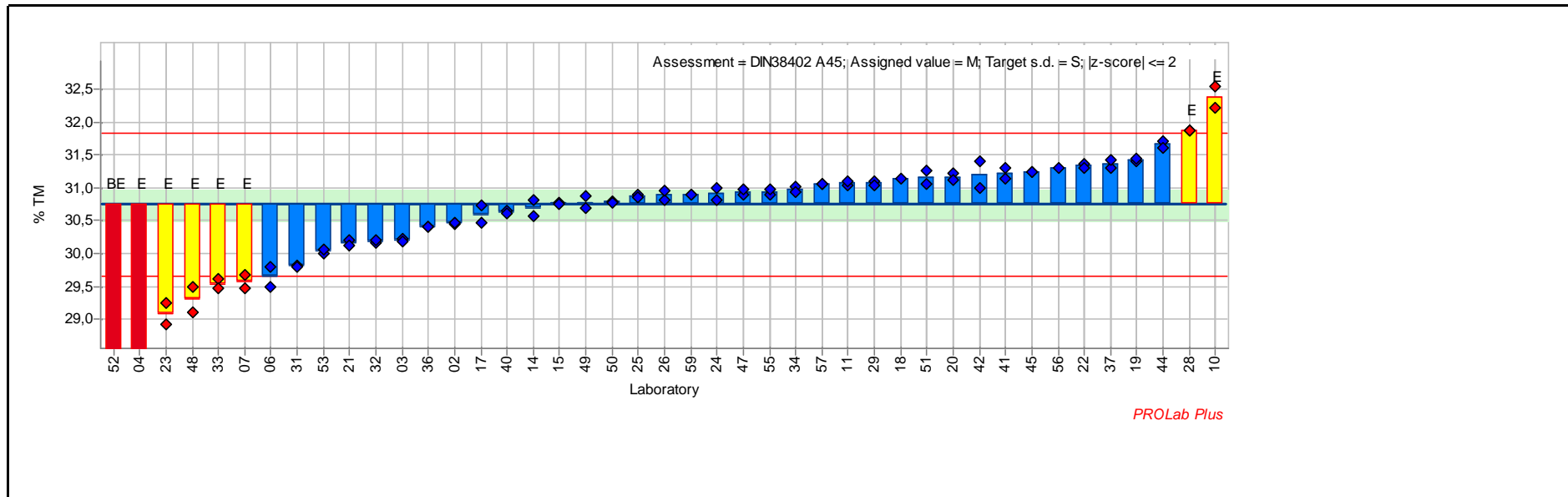
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 14 | 0,110 | 0,000 | -0,3 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 15 | 0,110 | 0,000 | -0,3 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 17 | 0,099 | 0,000 | -1,6 | 0,099 | 0,099 | no accreditation | XRF (fusion) | - |
| 18 | 0,112 | | -0,1 | 0,112 | | no accreditation | XRF (fusion) | - |
| 20 | 0,120 | 0,008 | 0,9 | 0,126 | 0,114 | no accreditation | XRF (fusion) | - |
| 21 | 0,095 | 0,007 | -2,1 | 0,100 | 0,090 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,130 | 0,000 | 2,1 | 0,130 | 0,130 | no accreditation | XRF (fusion) | - |
| 23 | 0,112 | 0,001 | -0,1 | 0,111 | 0,112 | ISO 17025 | XRF (Pellet) info only | - |
| 24 | 0,114 | 0,001 | 0,2 | 0,115 | 0,113 | no accreditation | XRF (fusion) | - |
| 25 | 0,112 | 0,002 | -0,1 | 0,113 | 0,110 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,107 | 0,000 | -0,7 | 0,107 | 0,107 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,119 | 0,008 | 0,8 | 0,113 | 0,125 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,110 | 0,000 | -0,3 | 0,110 | 0,110 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,117 | 0,001 | 0,5 | 0,117 | 0,116 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,110 | 0,000 | -0,3 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 33 | 0,105 | 0,007 | -0,9 | 0,100 | 0,110 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,105 | 0,007 | -0,9 | 0,100 | 0,110 | no accreditation | XRF (fusion) | - |
| 36 | 0,140 | 0,000 | 3,3 | 0,140 | 0,140 | no accreditation | XRF (fusion) | - |
| 37 | 0,114 | 0,000 | 0,2 | 0,114 | 0,114 | no accreditation | XRF (fusion) | - |
| 38 | 0,115 | | 0,3 | 0,115 | | ISO 17025 | ICP-OES | - |
| 40 | 0,100 | 0,000 | -1,5 | 0,100 | 0,100 | ISO 17025 | XRF (fusion) | - |
| 41 | 0,173 | 0,004 | 7,3 | 0,176 | 0,171 | no accreditation | XRF (Pellet) info only | - |
| 42 | | | | <0,005 | <0,005 | no accreditation | XRF (fusion) | - |
| 43 | 0,324 | 0,031 | 25,1 | 0,345 | 0,302 | no accreditation | other | C, TXRF |
| 44 | 0,115 | 0,007 | 0,3 | 0,110 | 0,120 | no accreditation | XRF (fusion) | - |
| 45 | 0,110 | 0,000 | -0,3 | 0,110 | 0,110 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,130 | 0,000 | 2,1 | 0,130 | 0,130 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,115 | 0,007 | 0,3 | 0,110 | 0,120 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,110 | 0,000 | -0,3 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 50 | 0,110 | 0,000 | -0,3 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 51 | 0,105 | 0,007 | -0,9 | 0,100 | 0,110 | no accreditation | XRF (fusion) | - |
| 52 | 0,084 | 0,001 | -3,4 | 0,083 | 0,085 | no accreditation | XRF (Pellet) info only | EDRFA |

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| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|---------|
| 53 | 0,187 | 0,001 | 8,9 | 0,188 | 0,186 | no accreditation | XRF (fusion) | - |
| 55 | 0,139 | 0,007 | 3,2 | 0,134 | 0,144 | no accreditation | XRF (fusion) | - |
| 56 | 0,100 | | -1,5 | 0,100 | | no accreditation | XRF (fusion) | - |
| 57 | 0,107 | 0,000 | -0,6 | 0,107 | 0,107 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,130 | 0,000 | 2,1 | 0,130 | 0,130 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,548 % TM
Measurand: SiO2 **Repeat. s.d.:** 0,068 % TM
Mean ± U(Mean): 30,743 ± 0,242 % TM **Range of tolerance:** 29,648 - 31,838 % TM (|z-score| ≤ 2,0)
No. of laboratories: 32 **Sample:** DIN 38402 A45
Assigned value: 30,743 % TM (Empirical value) **Target s.d.:** 0,548 % TM (Empirical value)



PROLab Plus

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|--------------------------|
| 02 | 30,461 | 0,016 | -0,5 | 30,449 | 30,472 | ISO 17025 | XRF (fusion) | - |
| 03 | 30,203 | 0,027 | -1,0 | 30,222 | 30,184 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 27,910 | | -5,2 | 27,910 | | ISO 17025 | ICP-OES | - |
| 06 | 29,650 | 0,212 | -2,0 | 29,800 | 29,500 | no accreditation | Wet chemistry EN196-2 | precip.aided by gelatine |
| 07 | 29,565 | 0,148 | -2,2 | 29,670 | 29,460 | no accreditation | XRF (fusion) | - |

RV118

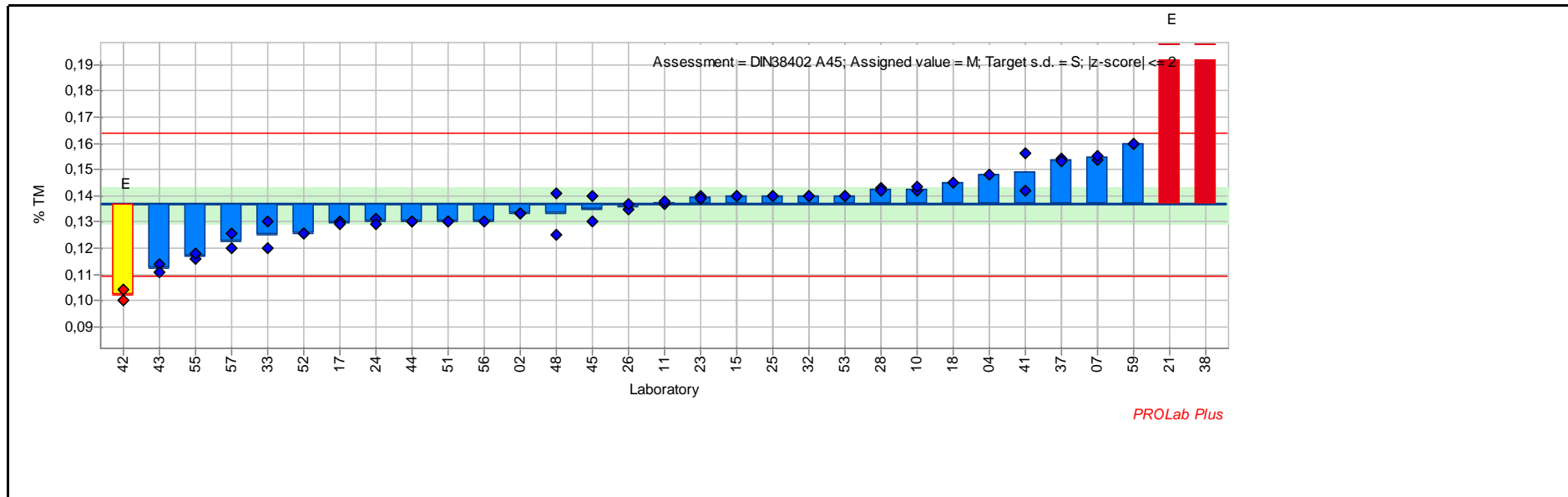
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 32,375 | 0,233 | 3,0 | 32,210 | 32,540 | no accreditation | XRF (fusion) | - |
| 11 | 31,070 | 0,042 | 0,6 | 31,040 | 31,100 | no accreditation | XRF (fusion) | - |
| 14 | 30,690 | 0,184 | -0,1 | 30,820 | 30,560 | no accreditation | XRF (fusion) | - |
| 15 | 30,765 | 0,007 | 0,0 | 30,770 | 30,760 | no accreditation | XRF (fusion) | - |
| 17 | 30,600 | 0,187 | -0,3 | 30,732 | 30,468 | no accreditation | XRF (fusion) | - |
| 18 | 31,150 | | 0,7 | 31,150 | | no accreditation | XRF (fusion) | - |
| 19 | 31,425 | 0,021 | 1,2 | 31,410 | 31,440 | no accreditation | XRF (fusion) | - |
| 20 | 31,165 | 0,078 | 0,8 | 31,220 | 31,110 | no accreditation | XRF (fusion) | - |
| 21 | 30,165 | 0,049 | -1,1 | 30,200 | 30,130 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 31,340 | 0,042 | 1,1 | 31,370 | 31,310 | no accreditation | XRF (fusion) | - |
| 23 | 29,075 | 0,233 | -3,0 | 28,910 | 29,240 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 30,907 | 0,120 | 0,3 | 30,992 | 30,822 | no accreditation | XRF (fusion) | - |
| 25 | 30,870 | 0,028 | 0,2 | 30,890 | 30,850 | ISO 17025 | XRF (fusion) | - |
| 26 | 30,887 | 0,097 | 0,3 | 30,819 | 30,956 | ISO 17025 | XRF (fusion) | - |
| 28 | 31,873 | 0,006 | 2,1 | 31,869 | 31,878 | ISO 17025 | XRF (fusion) | - |
| 29 | 31,070 | 0,042 | 0,6 | 31,100 | 31,040 | ISO 17025 | XRF (fusion) | - |
| 31 | 29,810 | 0,014 | -1,7 | 29,820 | 29,800 | ISO 17025 | XRF (fusion) | - |
| 32 | 30,185 | 0,035 | -1,0 | 30,160 | 30,210 | no accreditation | XRF (fusion) | - |
| 33 | 29,540 | 0,113 | -2,2 | 29,620 | 29,460 | no accreditation | XRF (Pellet) info only | - |
| 34 | 30,975 | 0,064 | 0,4 | 31,020 | 30,930 | no accreditation | XRF (fusion) | - |
| 36 | 30,400 | 0,000 | -0,6 | 30,400 | 30,400 | ISO 17025 | XRF (fusion) | - |
| 37 | 31,365 | 0,078 | 1,1 | 31,310 | 31,420 | no accreditation | XRF (fusion) | - |
| 40 | 30,640 | 0,028 | -0,2 | 30,660 | 30,620 | ISO 17025 | XRF (fusion) | - |
| 41 | 31,220 | 0,127 | 0,9 | 31,130 | 31,310 | no accreditation | XRF (Pellet) info only | |
| 42 | 31,200 | 0,283 | 0,8 | 31,400 | 31,000 | no accreditation | XRF (fusion) | - |
| 44 | 31,660 | 0,071 | 1,7 | 31,710 | 31,610 | no accreditation | XRF (fusion) | - |
| 45 | 31,245 | 0,007 | 0,9 | 31,250 | 31,240 | ISO 17025 | XRF (fusion) | - |
| 47 | 30,930 | 0,057 | 0,3 | 30,890 | 30,970 | ISO 17025 | XRF (fusion) | - |
| 48 | 29,300 | 0,283 | -2,6 | 29,500 | 29,100 | ISO 17025 | XRF (fusion) | - |
| 49 | 30,780 | 0,127 | 0,1 | 30,870 | 30,690 | no accreditation | XRF (fusion) | - |
| 50 | 30,785 | 0,007 | 0,1 | 30,790 | 30,780 | no accreditation | XRF (fusion) | - |
| 51 | 31,160 | 0,141 | 0,8 | 31,060 | 31,260 | no accreditation | XRF (fusion) | - |

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| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 52 | 23,995 | 0,120 | -12,3 | 23,910 | 24,080 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 30,030 | 0,057 | -1,3 | 29,990 | 30,070 | no accreditation | XRF (fusion) | - |
| 55 | 30,946 | 0,057 | 0,4 | 30,905 | 30,986 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 31,300 | | 1,0 | 31,300 | | no accreditation | XRF (fusion) | - |
| 57 | 31,056 | 0,007 | 0,6 | 31,051 | 31,060 | ISO 17025 | XRF (fusion) | - |
| 59 | 30,890 | 0,000 | 0,3 | 30,890 | 30,890 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,014 % TM
Measurand: SrO **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,137 ± 0,007 % TM **Range of tolerance:** 0,109 - 0,164 % TM (|z-score| ≤ 2,0)
No. of laboratories: 26 **Sample:** DIN 38402 A45
Assigned value: 0,137 % TM (Empirical value) **Target s.d.:** 0,014 % TM (Empirical value)



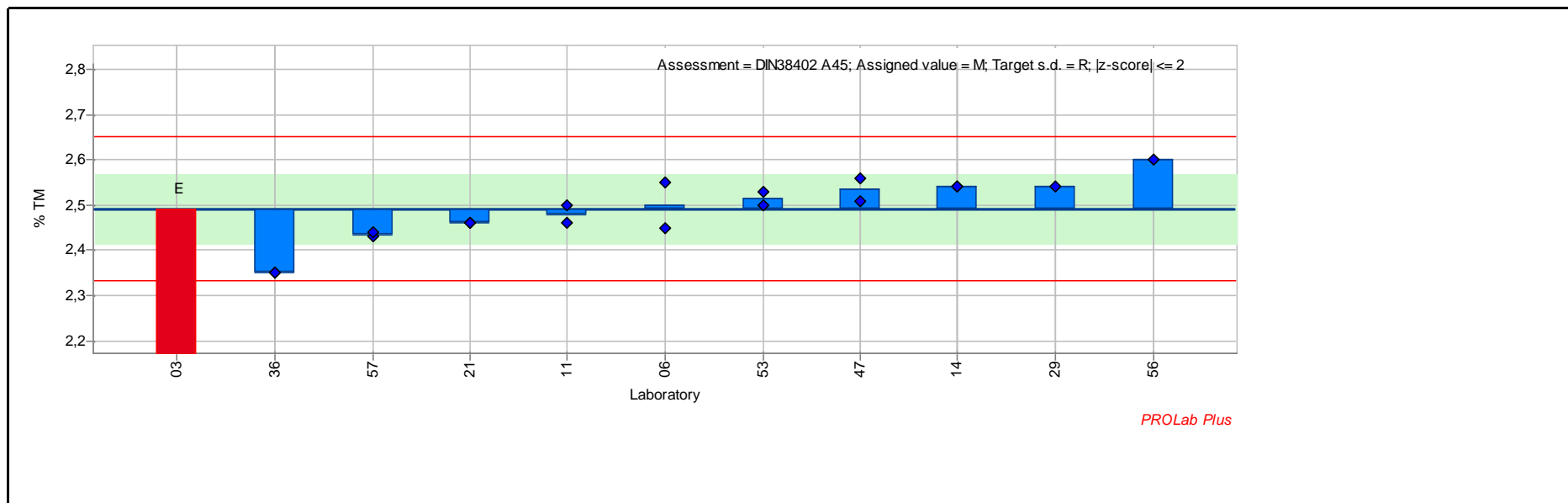
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 02 | 0,133 | 0,000 | -0,3 | 0,133 | 0,133 | ISO 17025 | XRF (fusion) | - |
| 04 | 0,148 | | 0,8 | 0,148 | | ISO 17025 | ICP-OES | - |
| 07 | 0,155 | 0,001 | 1,3 | 0,154 | 0,155 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,143 | 0,001 | 0,4 | 0,142 | 0,143 | no accreditation | XRF (fusion) | - |
| 11 | 0,138 | 0,001 | 0,1 | 0,137 | 0,138 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 15 | 0,140 | 0,000 | 0,3 | 0,140 | 0,140 | no accreditation | XRF (fusion) | - |
| 17 | 0,130 | 0,001 | -0,5 | 0,130 | 0,129 | no accreditation | XRF (fusion) | - |
| 18 | 0,145 | | 0,6 | 0,145 | | no accreditation | XRF (fusion) | - |
| 21 | 0,200 | 0,004 | 4,6 | 0,202 | 0,197 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,140 | 0,001 | 0,2 | 0,140 | 0,139 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,130 | 0,001 | -0,5 | 0,131 | 0,129 | no accreditation | XRF (fusion) | - |
| 25 | 0,140 | 0,000 | 0,3 | 0,140 | 0,140 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,136 | 0,001 | 0,0 | 0,135 | 0,137 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,142 | 0,001 | 0,4 | 0,143 | 0,142 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,140 | 0,000 | 0,3 | 0,140 | 0,140 | no accreditation | XRF (fusion) | - |
| 33 | 0,125 | 0,007 | -0,8 | 0,120 | 0,130 | no accreditation | XRF (Pellet) info only | - |
| 37 | 0,153 | 0,001 | 1,2 | 0,154 | 0,153 | no accreditation | XRF (fusion) | - |
| 38 | 0,592 | | 33,2 | 0,592 | | ISO 17025 | ICP-OES | - |
| 41 | 0,149 | 0,010 | 0,9 | 0,142 | 0,156 | no accreditation | ICP-OES | - |
| 42 | 0,102 | 0,003 | -2,5 | 0,104 | 0,100 | no accreditation | XRF (fusion) | - |
| 43 | 0,112 | 0,002 | -1,8 | 0,114 | 0,111 | no accreditation | other | TXRF |
| 44 | 0,130 | 0,000 | -0,5 | 0,130 | 0,130 | no accreditation | XRF (fusion) | - |
| 45 | 0,135 | 0,007 | -0,1 | 0,130 | 0,140 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,133 | 0,011 | -0,3 | 0,141 | 0,125 | ISO 17025 | XRF (fusion) | - |
| 51 | 0,130 | 0,000 | -0,5 | 0,130 | 0,130 | no accreditation | XRF (fusion) | - |
| 52 | 0,126 | 0,000 | -0,8 | 0,126 | 0,126 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,140 | 0,000 | 0,3 | 0,140 | 0,140 | no accreditation | XRF (fusion) | - |
| 55 | 0,117 | 0,001 | -1,4 | 0,116 | 0,118 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,130 | | -0,5 | 0,130 | | no accreditation | XRF (fusion) | - |
| 57 | 0,123 | 0,004 | -1,0 | 0,120 | 0,125 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,160 | 0,000 | 1,7 | 0,160 | 0,160 | no accreditation | XRF (fusion) | - |

RV118

| | | | |
|-----------------------------|-------------------------------------|----------------------------|---|
| Sample: | FLX-CRM 121 | Reprod. s.d.: | 0,100 % TM |
| Measurand: | Sulfate expressed as SO3 | Repeat. s.d.: | 0,026 % TM |
| Mean ± U(Mean): | 2,492 ± 0,076 % TM | Range of tolerance: | 2,332 - 2,652 % TM (z-score ≤ 2,0) |
| No. of laboratories: | 11 | Sample | DIN 38402 A45 |
| Assigned value | 2,492 % TM (Empirical value) | Target s.d. | 0,080 % TM (Reference value) |



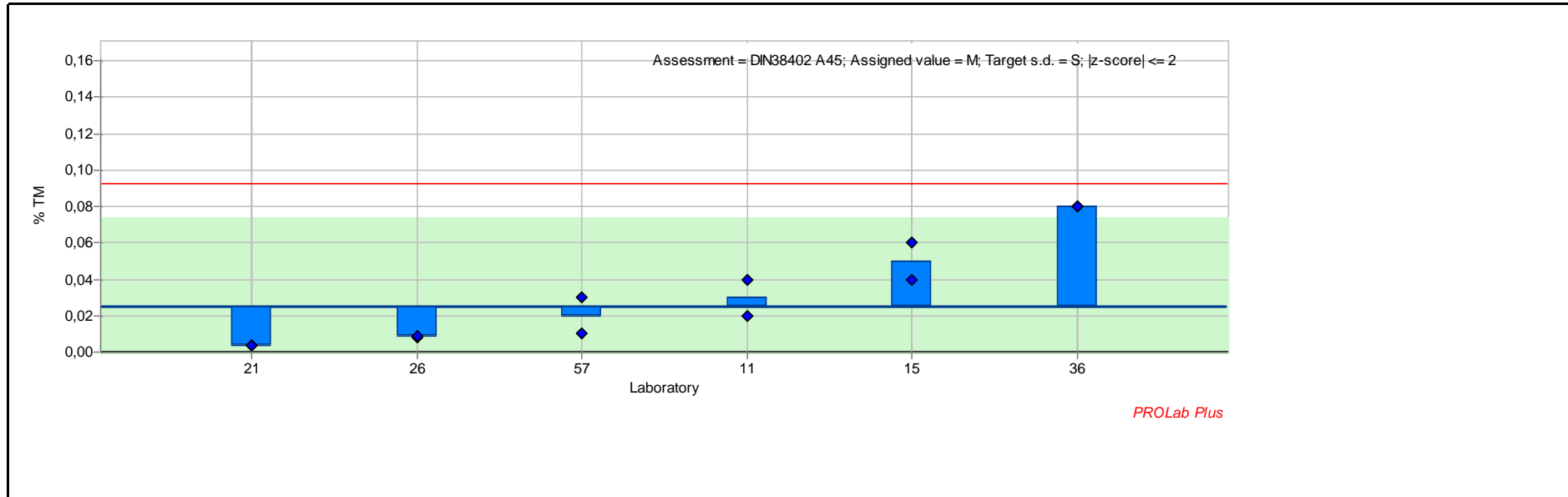
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 03 | 2,072 | 0,001 | -5,2 | 2,071 | 2,073 | no accreditation | Wet chemistry EN196-2 | - |
| 06 | 2,500 | 0,071 | 0,1 | 2,550 | 2,450 | no accreditation | Wet chemistry EN196-2 | - |
| 11 | 2,480 | 0,028 | -0,2 | 2,500 | 2,460 | no accreditation | Wet chemistry EN196-2 | - |
| 14 | 2,540 | 0,000 | 0,6 | 2,540 | 2,540 | no accreditation | Wet chemistry EN196-2 | - |
| 21 | 2,460 | 0,000 | -0,4 | 2,460 | 2,460 | ISO 17025 | Wet chemistry EN196-2 | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 29 | 2,540 | | 0,6 | 2,540 | | ISO 17025 | Wet chemistry EN196-2 | - |
| 36 | 2,350 | 0,000 | -1,8 | 2,350 | 2,350 | ISO 17025 | Wet chemistry EN196-2 | - |
| 47 | 2,535 | 0,035 | 0,5 | 2,510 | 2,560 | no accreditation | Wet chemistry EN196-2 | - |
| 53 | 2,515 | 0,021 | 0,3 | 2,530 | 2,500 | no accreditation | Wet chemistry EN196-2 | - |
| 56 | 2,600 | | 1,3 | 2,600 | | no accreditation | Wet chemistry EN196-2 | - |
| 57 | 2,435 | 0,007 | -0,7 | 2,430 | 2,440 | ISO 17025 | Wet chemistry EN196-2 | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,034 % TM
Measurand: Sulfide expressed as S **Repeat. s.d.:** 0,015 % TM
Mean ± U(Mean): 0,025 ± 0,049 % TM **Range of tolerance:** -0,043 - 0,093 % TM (|z-score| ≤ 2,0)
No. of laboratories: 3 **Sample:** DIN 38402 A45
Assigned value: 0,025 % TM (Empirical value) **Target s.d.:** 0,034 % TM (Empirical value)



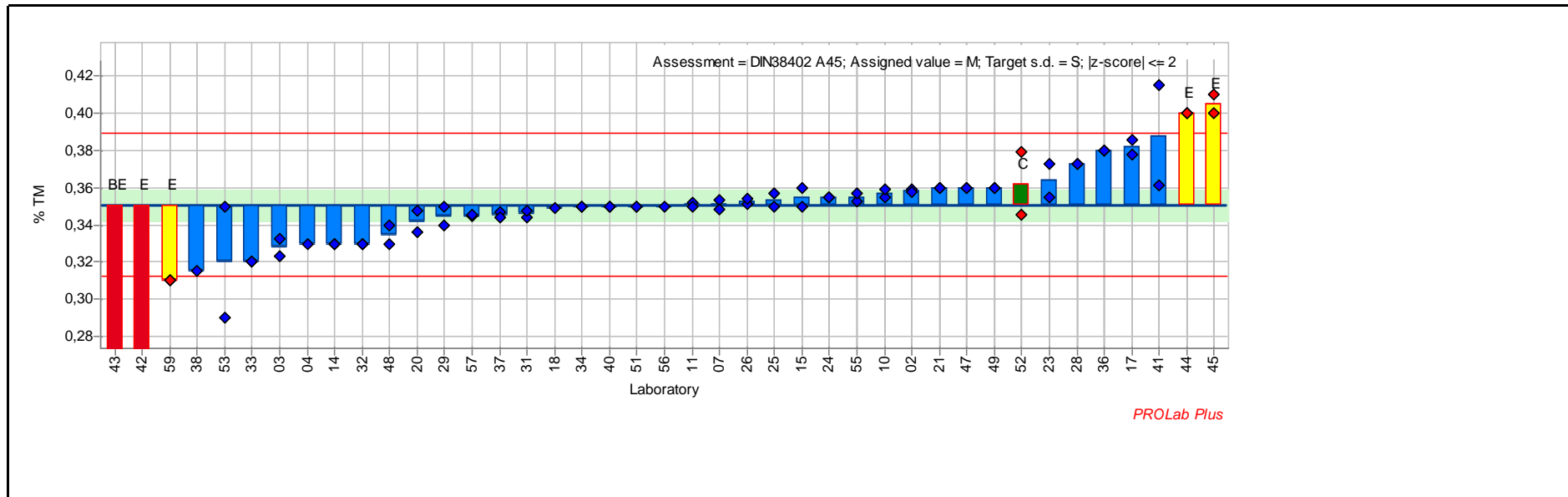
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------------|
| 11 | 0,030 | 0,014 | 0,2 | 0,020 | 0,040 | no accreditation | Standardless info only | - |
| 15 | 0,050 | 0,014 | 0,7 | 0,060 | 0,040 | no accreditation | Wet chemistry EN196-2 | - |
| 21 | 0,004 | 0,000 | -0,6 | 0,004 | 0,004 | ISO 17025 | Wet chemistry EN196-2 | - |
| 26 | 0,009 | 0,001 | -0,5 | 0,008 | 0,009 | ISO 17025 | other | DIN 38405-D27 |
| 36 | 0,080 | 0,000 | 1,6 | 0,080 | 0,080 | no accreditation | other | Calculation |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|----------------|
| 57 | 0,020 | 0,014 | -0,1 | 0,030 | 0,010 | no accreditation | Wet chemistry EN196-2 | SO4 difference |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,019 % TM
Measurand: TiO2 **Repeat. s.d.:** 0,005 % TM
Mean ± U(Mean): 0,351 ± 0,008 % TM **Range of tolerance:** 0,312 - 0,390 % TM (|z-score| ≤ 2,0)
No. of laboratories: 36 **Sample:** DIN 38402 A45
Assigned value: 0,351 % TM (Empirical value) **Target s.d.:** 0,019 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,358 | 0,001 | 0,4 | 0,359 | 0,358 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,328 | 0,007 | -1,2 | 0,333 | 0,324 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,330 | | -1,1 | 0,330 | | ISO 17025 | ICP-OES | - |
| 07 | 0,351 | 0,003 | 0,0 | 0,354 | 0,349 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,357 | 0,003 | 0,3 | 0,355 | 0,359 | no accreditation | XRF (fusion) | - |

RV118

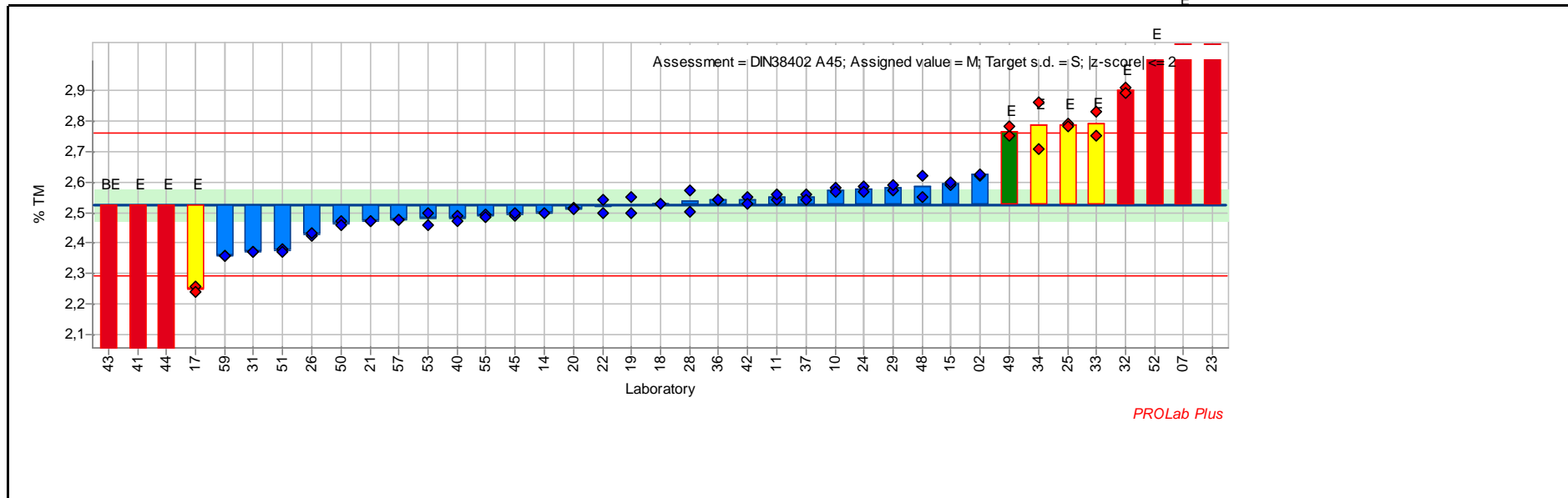
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,351 | 0,001 | 0,0 | 0,352 | 0,350 | no accreditation | XRF (fusion) | - |
| 14 | 0,330 | 0,000 | -1,1 | 0,330 | 0,330 | no accreditation | XRF (fusion) | - |
| 15 | 0,355 | 0,007 | 0,2 | 0,350 | 0,360 | no accreditation | XRF (fusion) | - |
| 17 | 0,382 | 0,006 | 1,6 | 0,378 | 0,386 | no accreditation | XRF (fusion) | - |
| 18 | 0,349 | | -0,1 | 0,349 | | no accreditation | XRF (fusion) | - |
| 20 | 0,342 | 0,008 | -0,5 | 0,336 | 0,348 | no accreditation | XRF (fusion) | - |
| 21 | 0,360 | 0,000 | 0,5 | 0,360 | 0,360 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,364 | 0,013 | 0,7 | 0,373 | 0,355 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,355 | 0,000 | 0,2 | 0,355 | 0,355 | no accreditation | XRF (fusion) | - |
| 25 | 0,353 | 0,005 | 0,1 | 0,357 | 0,350 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,352 | 0,002 | 0,1 | 0,351 | 0,354 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,373 | 0,000 | 1,1 | 0,373 | 0,373 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,345 | 0,007 | -0,3 | 0,350 | 0,340 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,346 | 0,003 | -0,3 | 0,344 | 0,348 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,330 | 0,000 | -1,1 | 0,330 | 0,330 | no accreditation | XRF (fusion) | - |
| 33 | 0,320 | 0,000 | -1,6 | 0,320 | 0,320 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,350 | 0,000 | 0,0 | 0,350 | 0,350 | no accreditation | XRF (fusion) | - |
| 36 | 0,380 | 0,000 | 1,5 | 0,380 | 0,380 | ISO 17025 | XRF (fusion) | - |
| 37 | 0,345 | 0,002 | -0,3 | 0,347 | 0,344 | no accreditation | XRF (fusion) | - |
| 38 | 0,315 | | -1,9 | 0,315 | | ISO 17025 | ICP-OES | - |
| 40 | 0,350 | 0,000 | 0,0 | 0,350 | 0,350 | ISO 17025 | XRF (fusion) | - |
| 41 | 0,388 | 0,038 | 1,9 | 0,361 | 0,415 | no accreditation | ICP-OES | C |
| 42 | 0,233 | 0,008 | -6,1 | 0,239 | 0,227 | no accreditation | XRF (fusion) | - |
| 43 | 0,203 | 0,015 | -7,7 | 0,192 | 0,213 | no accreditation | other | TXRF |
| 44 | 0,400 | 0,000 | 2,5 | 0,400 | 0,400 | no accreditation | XRF (fusion) | - |
| 45 | 0,405 | 0,007 | 2,8 | 0,400 | 0,410 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,360 | 0,000 | 0,5 | 0,360 | 0,360 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,335 | 0,007 | -0,8 | 0,340 | 0,330 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,360 | 0,000 | 0,5 | 0,360 | 0,360 | no accreditation | XRF (fusion) | - |
| 51 | 0,350 | 0,000 | 0,0 | 0,350 | 0,350 | no accreditation | XRF (fusion) | - |
| 52 | 0,362 | 0,024 | 0,6 | 0,345 | 0,379 | no accreditation | XRF (Pellet) info only | C, EDXRF |
| 53 | 0,320 | 0,042 | -1,6 | 0,290 | 0,350 | no accreditation | XRF (fusion) | C |

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| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-----------------------|
| 55 | 0,355 | 0,003 | 0,2 | 0,353 | 0,357 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,350 | | 0,0 | 0,350 | | no accreditation | XRF (fusion) | - |
| 57 | 0,345 | 0,001 | -0,3 | 0,345 | 0,346 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,310 | 0,000 | -2,1 | 0,310 | 0,310 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.** 0,117 % TM BE
Measurand: Total S expressed as SO₃ **Repeat. s.d.** 0,017 % TM
Mean ± U(Mean): 2,526 ± 0,051 % TM **Range of tolerance:** 2,292 - 2,761 % TM (|z-score| ≤ 2,0)
No. of laboratories: 33 **Sample** DIN 38402 A45
Assigned value 2,526 % TM (Empirical value) **Target s.d.** 0,117 % TM (Empirical value) F



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 02 | 2,624 | 0,003 | 0,8 | 2,622 | 2,626 | ISO 17025 | XRF (fusion) | - |
| 07 | 3,125 | 0,035 | 5,1 | 3,100 | 3,150 | no accreditation | XRF (Pellet) info only | - |
| 10 | 2,574 | 0,008 | 0,4 | 2,579 | 2,568 | no accreditation | XRF (fusion) | - |
| 11 | 2,550 | 0,014 | 0,2 | 2,540 | 2,560 | no accreditation | XRF (fusion) | - |
| 14 | 2,500 | | -0,2 | 2,500 | | no accreditation | XRF (fusion) | - |

RV118

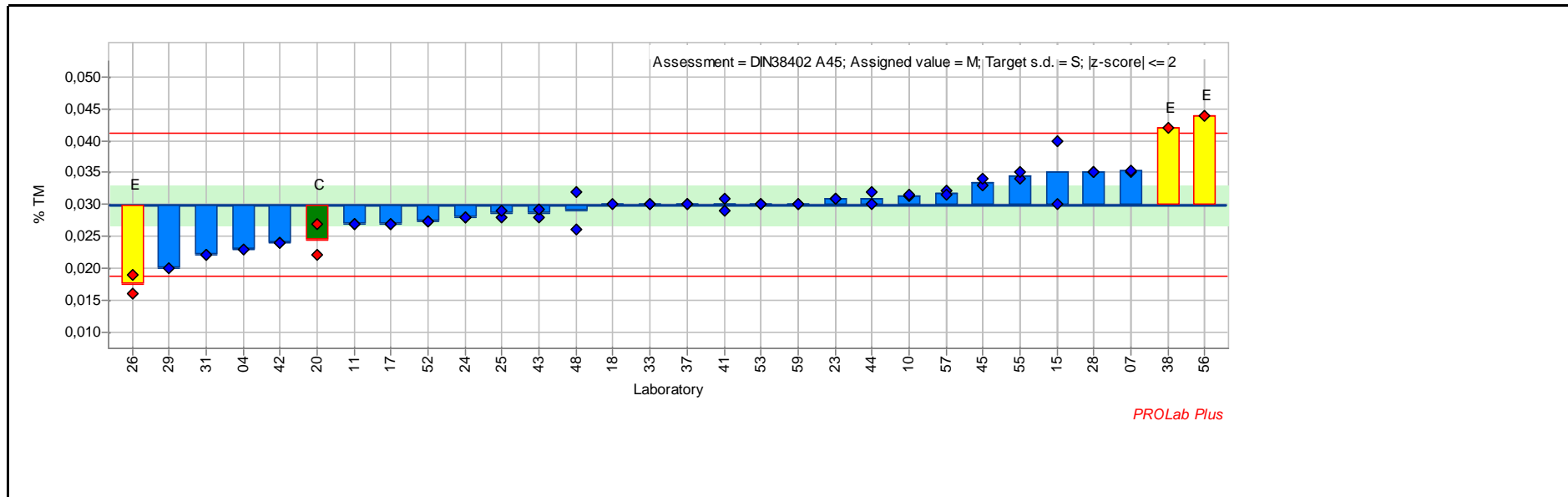
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|--------------------------|
| 15 | 2,595 | 0,007 | 0,6 | 2,590 | 2,600 | no accreditation | XRF (fusion) | - |
| 17 | 2,250 | 0,012 | -2,4 | 2,258 | 2,241 | no accreditation | XRF (fusion) | - |
| 18 | 2,530 | | 0,0 | 2,530 | | no accreditation | XRF (fusion) | - |
| 19 | 2,525 | 0,035 | 0,0 | 2,500 | 2,550 | no accreditation | XRF (fusion) | - |
| 20 | 2,513 | 0,004 | -0,1 | 2,515 | 2,510 | no accreditation | combustion | - |
| 21 | 2,470 | 0,000 | -0,5 | 2,470 | 2,470 | ISO 17025 | Wet chemistry EN196-2 | - |
| 22 | 2,520 | 0,028 | -0,1 | 2,540 | 2,500 | no accreditation | XRF (fusion) | - |
| 23 | 3,632 | 0,028 | 9,4 | 3,612 | 3,652 | ISO 17025 | XRF (Pellet) info only | - |
| 24 | 2,577 | 0,012 | 0,4 | 2,586 | 2,569 | no accreditation | XRF (fusion) | - |
| 25 | 2,785 | 0,007 | 2,2 | 2,790 | 2,780 | ISO 17025 | XRF (fusion) | - |
| 26 | 2,429 | 0,006 | -0,8 | 2,425 | 2,433 | ISO 17025 | combustion | - |
| 28 | 2,536 | 0,048 | 0,1 | 2,570 | 2,502 | ISO 17025 | XRF (fusion) | - |
| 29 | 2,580 | 0,014 | 0,5 | 2,570 | 2,590 | ISO 17025 | XRF (fusion) | - |
| 31 | 2,370 | 0,000 | -1,3 | 2,370 | 2,370 | ISO 17025 | combustion | - |
| 32 | 2,900 | 0,014 | 3,2 | 2,910 | 2,890 | no accreditation | XRF (fusion) | - |
| 33 | 2,790 | 0,057 | 2,2 | 2,830 | 2,750 | no accreditation | XRF (Pellet) info only | - |
| 34 | 2,784 | 0,106 | 2,2 | 2,859 | 2,709 | no accreditation | XRF (fusion) | C |
| 36 | 2,540 | 0,000 | 0,1 | 2,540 | 2,540 | no accreditation | other | SR3T gravimetric Bromine |
| 37 | 2,550 | 0,014 | 0,2 | 2,560 | 2,540 | no accreditation | XRF (fusion) | - |
| 40 | 2,480 | 0,014 | -0,4 | 2,490 | 2,470 | ISO 17025 | XRF (fusion) | - |
| 41 | 0,940 | 0,028 | -13,5 | 0,920 | 0,960 | no accreditation | combustion | - |
| 42 | 2,540 | 0,014 | 0,1 | 2,550 | 2,530 | no accreditation | XRF (fusion) | - |
| 43 | 0,817 | 0,027 | -14,6 | 0,836 | 0,798 | no accreditation | other | TXRF |
| 44 | 2,010 | 0,014 | -4,4 | 2,000 | 2,020 | no accreditation | XRF (fusion) | - |
| 45 | 2,495 | 0,007 | -0,3 | 2,490 | 2,500 | ISO 17025 | combustion | - |
| 48 | 2,585 | 0,049 | 0,5 | 2,550 | 2,620 | ISO 17025 | combustion | - |
| 49 | 2,765 | 0,021 | 2,0 | 2,750 | 2,780 | no accreditation | XRF (fusion) | - |
| 50 | 2,465 | 0,007 | -0,5 | 2,470 | 2,460 | no accreditation | XRF (fusion) | - |
| 51 | 2,375 | 0,007 | -1,3 | 2,380 | 2,370 | no accreditation | XRF (fusion) | - |
| 52 | 3,016 | 0,011 | 4,2 | 3,024 | 3,008 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 2,480 | 0,028 | -0,4 | 2,460 | 2,500 | no accreditation | XRF (fusion) | - |
| 55 | 2,490 | 0,007 | -0,3 | 2,495 | 2,485 | no accreditation | XRF (fusion) | Reconstitution Method |

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| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|---------|
| 57 | 2,477 | 0,001 | -0,4 | 2,477 | 2,478 | ISO 17025 | XRF (fusion) | - |
| 59 | 2,360 | 0,000 | -1,4 | 2,360 | 2,360 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 121 **Reprod. s.d.:** 0,006 % TM
Measurand: ZnO **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,030 ± 0,003 % TM **Range of tolerance:** 0,019 - 0,041 % TM (|z-score| <= 2,0)
No. of laboratories: 23 **Sample:** DIN 38402 A45
Assigned value: 0,030 % TM (Empirical value) **Target s.d.:** 0,006 % TM (Empirical value)



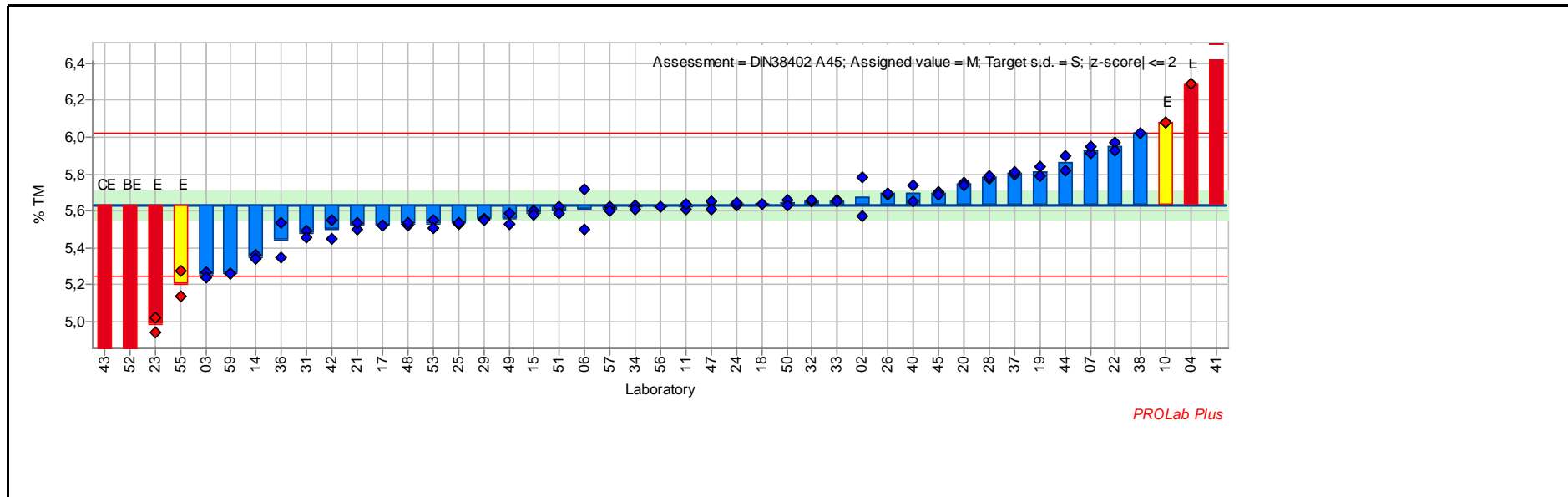
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 04 | 0,023 | | -1,2 | 0,023 | | ISO 17025 | ICP-OES | - |
| 07 | 0,035 | 0,000 | 0,9 | 0,035 | 0,035 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,031 | 0,000 | 0,3 | 0,031 | 0,031 | no accreditation | XRF (fusion) | - |
| 11 | 0,027 | 0,000 | -0,5 | 0,027 | 0,027 | no accreditation | XRF (fusion) | - |
| 15 | 0,035 | 0,007 | 0,9 | 0,030 | 0,040 | no accreditation | XRF (fusion) | C |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------------------|
| 17 | 0,027 | 0,000 | -0,5 | 0,027 | 0,027 | no accreditation | XRF (fusion) | - |
| 18 | 0,030 | | 0,0 | 0,030 | | no accreditation | XRF (fusion) | - |
| 20 | 0,025 | 0,004 | -1,0 | 0,027 | 0,022 | no accreditation | XRF (Pellet) info only | C |
| 23 | 0,031 | 0,000 | 0,2 | 0,031 | 0,031 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,028 | 0,000 | -0,3 | 0,028 | 0,028 | no accreditation | XRF (fusion) | - |
| 25 | 0,029 | 0,001 | -0,3 | 0,028 | 0,029 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,018 | 0,002 | -2,2 | 0,016 | 0,019 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,035 | 0,000 | 0,9 | 0,035 | 0,035 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,020 | | -1,8 | 0,020 | | no accreditation | Standardless info only | fused bead trace |
| 31 | 0,022 | 0,000 | -1,4 | 0,022 | 0,022 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 33 | 0,030 | 0,000 | 0,0 | 0,030 | 0,030 | no accreditation | XRF (Pellet) info only | - |
| 37 | 0,030 | 0,000 | 0,0 | 0,030 | 0,030 | no accreditation | XRF (fusion) | - |
| 38 | 0,042 | | 2,1 | 0,042 | | ISO 17025 | ICP-OES | - |
| 41 | 0,030 | 0,001 | 0,0 | 0,029 | 0,031 | no accreditation | ICP-OES | - |
| 42 | 0,024 | 0,000 | -1,1 | 0,024 | 0,024 | no accreditation | XRF (fusion) | - |
| 43 | 0,029 | 0,001 | -0,2 | 0,028 | 0,029 | no accreditation | other | TXRF |
| 44 | 0,031 | 0,001 | 0,2 | 0,032 | 0,030 | no accreditation | XRF (fusion) | - |
| 45 | 0,034 | 0,001 | 0,6 | 0,033 | 0,034 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,029 | 0,004 | -0,2 | 0,032 | 0,026 | ISO 17025 | XRF (fusion) | C |
| 52 | 0,027 | 0,000 | -0,5 | 0,027 | 0,027 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,030 | 0,000 | 0,0 | 0,030 | 0,030 | no accreditation | XRF (fusion) | - |
| 55 | 0,035 | 0,001 | 0,8 | 0,034 | 0,035 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,044 | | 2,5 | 0,044 | | no accreditation | XRF (fusion) | - |
| 57 | 0,032 | 0,000 | 0,3 | 0,032 | 0,032 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,030 | 0,000 | 0,0 | 0,030 | 0,030 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,195 % TM
Measurand: Al2O3 **Repeat. s.d.:** 0,030 % TM
Mean ± U(Mean): 5,634 ± 0,076 % TM **Range of tolerance:** 5,245 - 6,023 % TM (|z-score| <= 2,0)
No. of laboratories: 41 **Sample:** DIN 38402 A45
Assigned value: 5,634 % TM (Empirical value) **Target s.d.:** 0,195 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 5,677 | 0,146 | 0,2 | 5,574 | 5,780 | ISO 17025 | XRF (fusion) | - |
| 03 | 5,255 | 0,021 | -1,9 | 5,270 | 5,240 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 6,290 | | 3,4 | 6,290 | | ISO 17025 | ICP-OES | - |
| 06 | 5,610 | 0,156 | -0,1 | 5,720 | 5,500 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 5,930 | 0,028 | 1,5 | 5,910 | 5,950 | no accreditation | XRF (fusion) | - |

RV118

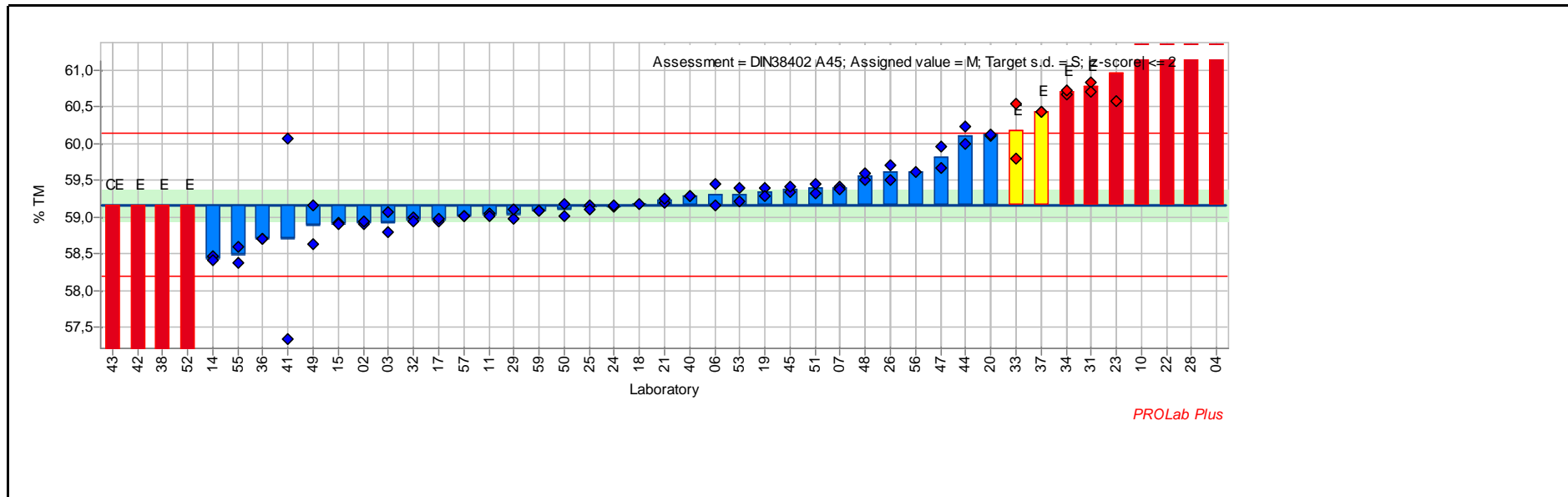
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 6,079 | 0,002 | 2,3 | 6,077 | 6,080 | no accreditation | XRF (fusion) | - |
| 11 | 5,625 | 0,021 | 0,0 | 5,610 | 5,640 | no accreditation | XRF (fusion) | - |
| 14 | 5,350 | 0,014 | -1,5 | 5,360 | 5,340 | no accreditation | XRF (fusion) | - |
| 15 | 5,590 | 0,014 | -0,2 | 5,600 | 5,580 | no accreditation | XRF (fusion) | - |
| 17 | 5,524 | 0,002 | -0,6 | 5,525 | 5,522 | no accreditation | XRF (fusion) | - |
| 18 | 5,640 | | 0,0 | 5,640 | | no accreditation | XRF (fusion) | - |
| 19 | 5,815 | 0,035 | 0,9 | 5,840 | 5,790 | no accreditation | XRF (fusion) | - |
| 20 | 5,747 | 0,007 | 0,6 | 5,752 | 5,742 | no accreditation | XRF (fusion) | - |
| 21 | 5,520 | 0,028 | -0,6 | 5,500 | 5,540 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 5,950 | 0,028 | 1,6 | 5,970 | 5,930 | no accreditation | XRF (fusion) | - |
| 23 | 4,984 | 0,055 | -3,3 | 5,023 | 4,945 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 5,638 | 0,008 | 0,0 | 5,632 | 5,644 | no accreditation | XRF (fusion) | - |
| 25 | 5,535 | 0,007 | -0,5 | 5,530 | 5,540 | ISO 17025 | XRF (fusion) | - |
| 26 | 5,692 | 0,006 | 0,3 | 5,688 | 5,697 | ISO 17025 | XRF (fusion) | - |
| 28 | 5,780 | 0,011 | 0,8 | 5,773 | 5,788 | ISO 17025 | XRF (fusion) | - |
| 29 | 5,555 | 0,007 | -0,4 | 5,560 | 5,550 | ISO 17025 | XRF (fusion) | - |
| 31 | 5,475 | 0,021 | -0,8 | 5,490 | 5,460 | ISO 17025 | XRF (fusion) | - |
| 32 | 5,655 | 0,007 | 0,1 | 5,650 | 5,660 | no accreditation | XRF (fusion) | - |
| 33 | 5,655 | 0,007 | 0,1 | 5,660 | 5,650 | no accreditation | XRF (Pellet) info only | - |
| 34 | 5,620 | 0,014 | -0,1 | 5,630 | 5,610 | no accreditation | XRF (fusion) | - |
| 36 | 5,445 | 0,134 | -1,0 | 5,540 | 5,350 | ISO 17025 | XRF (fusion) | - |
| 37 | 5,805 | 0,007 | 0,9 | 5,800 | 5,810 | no accreditation | XRF (fusion) | - |
| 38 | 6,020 | | 2,0 | 6,020 | | ISO 17025 | XRF (fusion) | - |
| 40 | 5,695 | 0,064 | 0,3 | 5,740 | 5,650 | ISO 17025 | XRF (fusion) | - |
| 41 | 10,000 | 0,325 | 22,4 | 10,230 | 9,770 | no accreditation | ICP-OES | C |
| 42 | 5,500 | 0,071 | -0,7 | 5,450 | 5,550 | no accreditation | XRF (fusion) | - |
| 43 | 1,373 | 0,289 | -21,9 | 1,577 | 1,168 | no accreditation | other | C, TXRF |
| 44 | 5,860 | 0,057 | 1,2 | 5,820 | 5,900 | no accreditation | XRF (fusion) | - |
| 45 | 5,695 | 0,007 | 0,3 | 5,700 | 5,690 | ISO 17025 | XRF (fusion) | - |
| 47 | 5,630 | 0,028 | 0,0 | 5,650 | 5,610 | ISO 17025 | XRF (fusion) | - |
| 48 | 5,530 | 0,014 | -0,5 | 5,520 | 5,540 | ISO 17025 | XRF (fusion) | - |
| 49 | 5,560 | 0,042 | -0,4 | 5,530 | 5,590 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 5,645 | 0,021 | 0,1 | 5,660 | 5,630 | no accreditation | XRF (fusion) | - |
| 51 | 5,605 | 0,021 | -0,1 | 5,620 | 5,590 | no accreditation | XRF (fusion) | - |
| 52 | 4,091 | 0,071 | -7,9 | 4,040 | 4,141 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 5,530 | 0,028 | -0,5 | 5,550 | 5,510 | no accreditation | XRF (fusion) | - |
| 55 | 5,206 | 0,095 | -2,2 | 5,139 | 5,273 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 5,620 | | -0,1 | 5,620 | | no accreditation | XRF (fusion) | - |
| 57 | 5,612 | 0,016 | -0,1 | 5,623 | 5,601 | ISO 17025 | XRF (fusion) | - |
| 59 | 5,260 | 0,000 | -1,9 | 5,260 | 5,260 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.** 0,488 % TM E
Measurand: CaO **Repeat. s.d.** 0,095 % TM
Mean ± U(Mean): 59,166 ± 0,209 % TM **Range of tolerance:** 58,189 - 60,143 % TM (|z-score| ≤ 2,0)
No. of laboratories: 34 **Sample** DIN 38402 A45
Assigned value 59,166 % TM (Empirical value) **Target s.d.** 0,488 % TM (Empirical value) E E E



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 58,925 | 0,027 | -0,5 | 58,906 | 58,944 | ISO 17025 | XRF (fusion) | - |
| 03 | 58,927 | 0,196 | -0,5 | 58,789 | 59,066 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 64,070 | | 10,0 | 64,070 | | ISO 17025 | ICP-OES | - |
| 06 | 59,300 | 0,212 | 0,3 | 59,450 | 59,150 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 59,400 | 0,028 | 0,5 | 59,420 | 59,380 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 61,870 | 0,212 | 5,5 | 61,720 | 62,020 | no accreditation | XRF (fusion) | - |
| 11 | 59,030 | 0,028 | -0,3 | 59,050 | 59,010 | no accreditation | XRF (fusion) | - |
| 14 | 58,435 | 0,035 | -1,5 | 58,460 | 58,410 | no accreditation | XRF (fusion) | - |
| 15 | 58,910 | 0,014 | -0,5 | 58,920 | 58,900 | no accreditation | XRF (fusion) | - |
| 17 | 58,962 | 0,025 | -0,4 | 58,944 | 58,980 | no accreditation | XRF (fusion) | - |
| 18 | 59,170 | | 0,0 | 59,170 | | no accreditation | XRF (fusion) | - |
| 19 | 59,345 | 0,078 | 0,4 | 59,400 | 59,290 | no accreditation | XRF (fusion) | - |
| 20 | 60,115 | 0,007 | 1,9 | 60,110 | 60,120 | no accreditation | XRF (fusion) | - |
| 21 | 59,225 | 0,035 | 0,1 | 59,200 | 59,250 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 62,020 | 0,028 | 5,8 | 62,040 | 62,000 | no accreditation | XRF (fusion) | - |
| 23 | 60,960 | 0,537 | 3,7 | 61,340 | 60,580 | ISO 17025 | XRF (Pellet) info only | - |
| 24 | 59,146 | 0,011 | 0,0 | 59,138 | 59,154 | no accreditation | XRF (fusion) | - |
| 25 | 59,135 | 0,035 | -0,1 | 59,160 | 59,110 | ISO 17025 | XRF (fusion) | - |
| 26 | 59,609 | 0,144 | 0,9 | 59,507 | 59,711 | ISO 17025 | XRF (fusion) | - |
| 28 | 62,031 | 0,071 | 5,9 | 61,981 | 62,081 | ISO 17025 | XRF (fusion) | - |
| 29 | 59,035 | 0,092 | -0,3 | 58,970 | 59,100 | ISO 17025 | XRF (fusion) | - |
| 31 | 60,770 | 0,085 | 3,3 | 60,830 | 60,710 | ISO 17025 | XRF (fusion) | - |
| 32 | 58,960 | 0,042 | -0,4 | 58,990 | 58,930 | no accreditation | XRF (fusion) | - |
| 33 | 60,170 | 0,523 | 2,1 | 60,540 | 59,800 | no accreditation | XRF (Pellet) info only | - |
| 34 | 60,695 | 0,035 | 3,1 | 60,670 | 60,720 | no accreditation | XRF (fusion) | - |
| 36 | 58,700 | 0,000 | -1,0 | 58,700 | 58,700 | ISO 17025 | XRF (fusion) | - |
| 37 | 60,425 | 0,007 | 2,6 | 60,430 | 60,420 | no accreditation | XRF (fusion) | - |
| 38 | 54,960 | | -8,6 | 54,960 | | ISO 17025 | XRF (fusion) | - |
| 40 | 59,280 | 0,000 | 0,2 | 59,280 | 59,280 | ISO 17025 | XRF (fusion) | - |
| 41 | 58,705 | 1,930 | -0,9 | 60,070 | 57,340 | no accreditation | ICP-OES | C |
| 42 | 46,700 | 0,000 | -25,5 | 46,700 | 46,700 | no accreditation | XRF (fusion) | - |
| 43 | 24,343 | 4,572 | -71,3 | 27,576 | 21,110 | no accreditation | other | C, TXRF |
| 44 | 60,105 | 0,163 | 1,9 | 60,220 | 59,990 | no accreditation | XRF (fusion) | - |
| 45 | 59,370 | 0,057 | 0,4 | 59,330 | 59,410 | ISO 17025 | XRF (fusion) | - |
| 47 | 59,805 | 0,205 | 1,3 | 59,950 | 59,660 | ISO 17025 | XRF (fusion) | - |
| 48 | 59,550 | 0,071 | 0,8 | 59,500 | 59,600 | ISO 17025 | XRF (fusion) | - |
| 49 | 58,890 | 0,368 | -0,6 | 59,150 | 58,630 | no accreditation | XRF (fusion) | - |

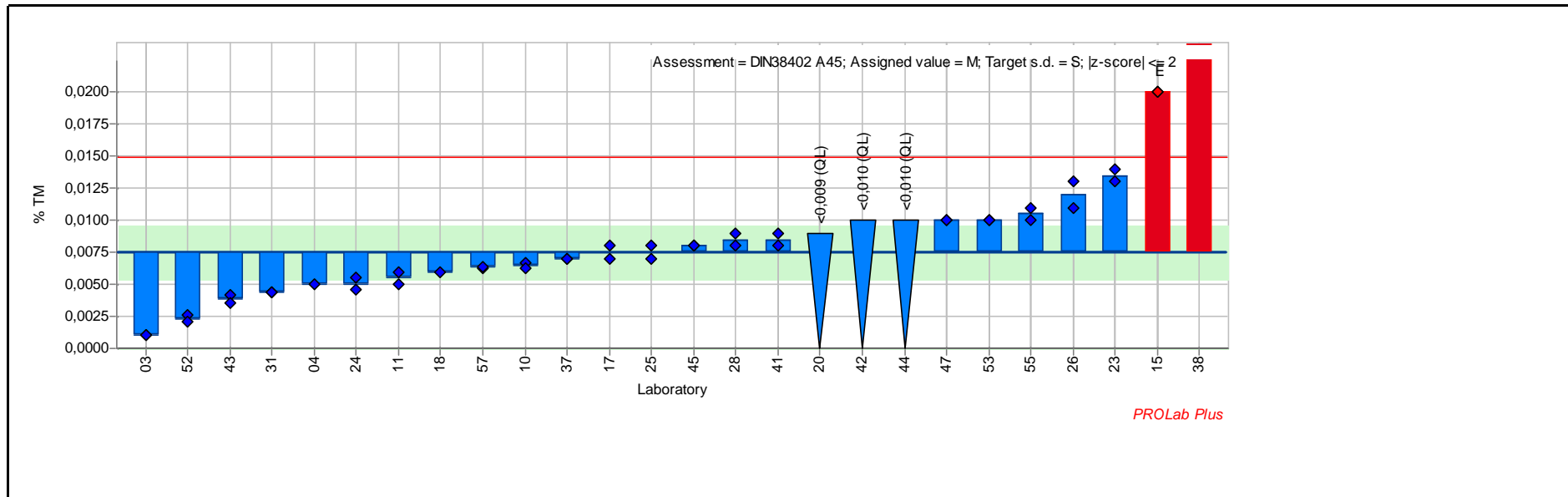
RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 59,095 | 0,120 | -0,1 | 59,010 | 59,180 | no accreditation | XRF (fusion) | - |
| 51 | 59,385 | 0,092 | 0,4 | 59,320 | 59,450 | no accreditation | XRF (fusion) | - |
| 52 | 56,605 | 0,092 | -5,2 | 56,540 | 56,670 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 59,305 | 0,120 | 0,3 | 59,220 | 59,390 | no accreditation | XRF (fusion) | - |
| 55 | 58,483 | 0,146 | -1,4 | 58,380 | 58,586 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 59,620 | | 0,9 | 59,620 | | no accreditation | XRF (fusion) | - |
| 57 | 59,007 | 0,001 | -0,3 | 59,008 | 59,006 | ISO 17025 | XRF (fusion) | - |
| 59 | 59,080 | 0,000 | -0,2 | 59,080 | 59,080 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,004 % TM
Measurand: Cr2O3 **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,007 ± 0,002 % TM **Range of tolerance:** 0,000 - 0,015 % TM (|z-score| ≤ 2,0)
No. of laboratories: 20 **Sample:** DIN 38402 A45
Assigned value: 0,007 % TM (Empirical value) **Target s.d.:** 0,004 % TM (Empirical value)

E



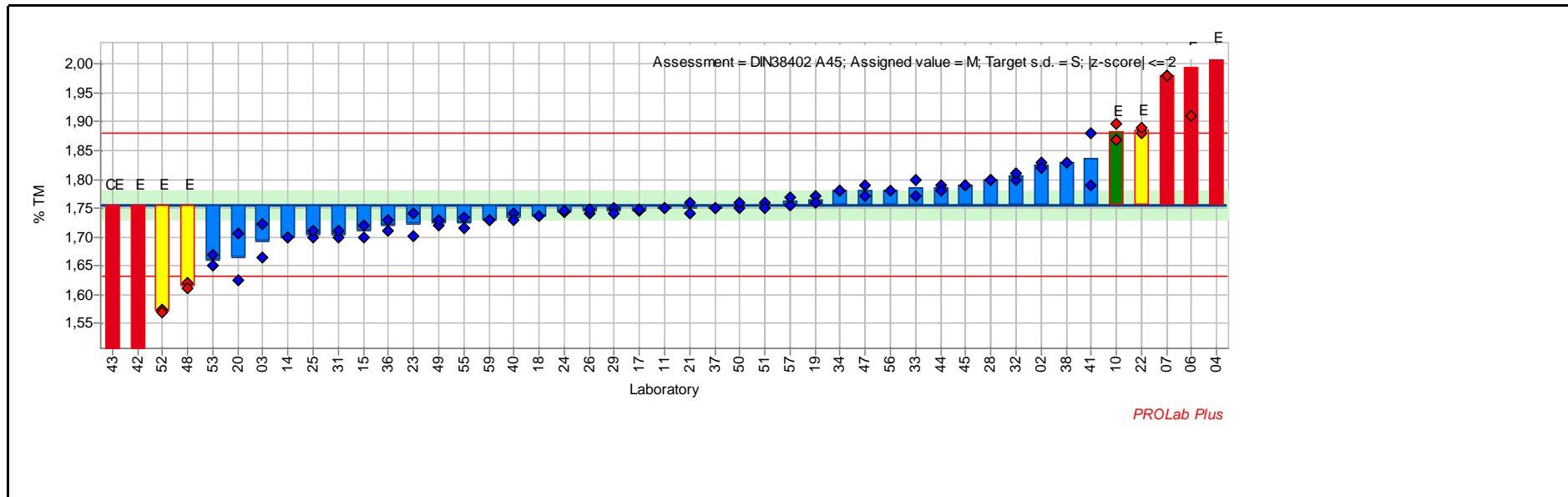
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 03 | 0,001 | 0,000 | -1,7 | 0,001 | 0,001 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,005 | | -0,7 | 0,005 | | ISO 17025 | ICP-OES | - |
| 07 | | | | | | no accreditation | XRF (Pellet) info only | |
| 10 | 0,006 | 0,000 | -0,3 | 0,007 | 0,006 | no accreditation | XRF (fusion) | - |
| 11 | 0,005 | 0,001 | -0,5 | 0,006 | 0,005 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------------------|
| 15 | 0,020 | 0,000 | 3,3 | 0,020 | 0,020 | no accreditation | XRF (fusion) | - |
| 17 | 0,007 | 0,001 | 0,0 | 0,008 | 0,007 | no accreditation | XRF (fusion) | - |
| 18 | 0,006 | | -0,4 | 0,006 | | no accreditation | XRF (fusion) | - |
| 20 | | | | <0,009 | <0,009 | no accreditation | XRF (fusion) | - |
| 23 | 0,013 | 0,001 | 1,6 | 0,013 | 0,014 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,005 | 0,001 | -0,6 | 0,005 | 0,005 | no accreditation | XRF (fusion) | - |
| 25 | 0,007 | 0,001 | 0,0 | 0,008 | 0,007 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,012 | 0,001 | 1,2 | 0,011 | 0,013 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,009 | 0,001 | 0,3 | 0,009 | 0,008 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,004 | 0,000 | -0,8 | 0,004 | 0,004 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 33 | | | | | | no accreditation | XRF (Pellet) info only | - |
| 37 | 0,007 | 0,000 | -0,1 | 0,007 | 0,007 | no accreditation | XRF (fusion) | - |
| 38 | 0,029 | | 5,8 | 0,029 | | ISO 17025 | ICP-OES | - |
| 41 | 0,009 | 0,001 | 0,3 | 0,009 | 0,008 | no accreditation | ICP-OES | - |
| 42 | | | | <0,010 | <0,010 | no accreditation | XRF (fusion) | - |
| 43 | 0,004 | 0,000 | -1,0 | 0,004 | 0,004 | no accreditation | other | TXRF |
| 44 | | | | <0,010 | <0,010 | no accreditation | XRF (fusion) | - |
| 45 | 0,008 | 0,000 | 0,1 | 0,008 | 0,008 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,010 | 0,000 | 0,7 | 0,010 | 0,010 | ISO 17025 | XRF (fusion) | - |
| 52 | 0,002 | 0,000 | -1,4 | 0,003 | 0,002 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,010 | 0,000 | 0,7 | 0,010 | 0,010 | no accreditation | XRF (fusion) | - |
| 55 | 0,010 | 0,001 | 0,8 | 0,011 | 0,010 | no accreditation | XRF (fusion) | Reconstitution Method |
| 57 | 0,006 | 0,000 | -0,3 | 0,006 | 0,006 | ISO 17025 | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,062 % TM
Measurand: Fe2O3 **Repeat. s.d.:** 0,011 % TM
Mean ± U(Mean): 1,756 ± 0,024 % TM **Range of tolerance:** 1,631 - 1,881 % TM (|z-score| <= 2,0)
No. of laboratories: 41 **Sample:** DIN 38402 A45
Assigned value: 1,756 % TM (Empirical value) **Target s.d.:** 0,062 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 1,825 | 0,007 | 1,1 | 1,830 | 1,820 | ISO 17025 | XRF (fusion) | - |
| 03 | 1,692 | 0,041 | -1,0 | 1,721 | 1,663 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 2,010 | | 4,1 | 2,010 | | ISO 17025 | ICP-OES | - |
| 06 | 1,995 | 0,120 | 3,8 | 2,080 | 1,910 | no accreditation | Wet chemistry EN196-2 | C |
| 07 | 1,980 | 0,000 | 3,6 | 1,980 | 1,980 | no accreditation | XRF (fusion) | - |

RV118

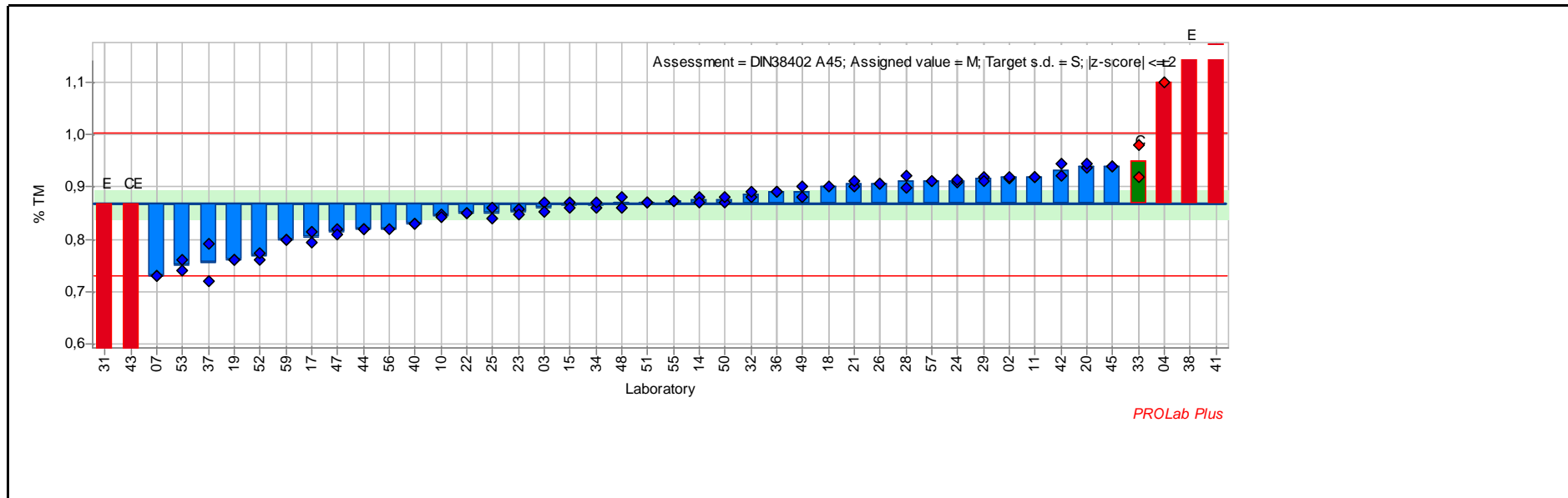
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 1,882 | 0,019 | 2,0 | 1,869 | 1,896 | no accreditation | XRF (fusion) | - |
| 11 | 1,750 | 0,000 | -0,1 | 1,750 | 1,750 | no accreditation | XRF (fusion) | - |
| 14 | 1,700 | 0,000 | -0,9 | 1,700 | 1,700 | no accreditation | XRF (fusion) | - |
| 15 | 1,710 | 0,014 | -0,7 | 1,720 | 1,700 | no accreditation | XRF (fusion) | - |
| 17 | 1,746 | 0,001 | -0,2 | 1,745 | 1,747 | no accreditation | XRF (fusion) | - |
| 18 | 1,737 | | -0,3 | 1,737 | | no accreditation | XRF (fusion) | - |
| 19 | 1,765 | 0,007 | 0,1 | 1,770 | 1,760 | no accreditation | XRF (fusion) | - |
| 20 | 1,666 | 0,059 | -1,5 | 1,624 | 1,707 | no accreditation | XRF (fusion) | C |
| 21 | 1,750 | 0,014 | -0,1 | 1,760 | 1,740 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 1,885 | 0,007 | 2,1 | 1,880 | 1,890 | no accreditation | XRF (fusion) | - |
| 23 | 1,722 | 0,028 | -0,5 | 1,742 | 1,702 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 1,744 | 0,001 | -0,2 | 1,743 | 1,745 | no accreditation | XRF (fusion) | - |
| 25 | 1,705 | 0,007 | -0,8 | 1,700 | 1,710 | ISO 17025 | XRF (fusion) | - |
| 26 | 1,744 | 0,006 | -0,2 | 1,740 | 1,749 | ISO 17025 | XRF (fusion) | - |
| 28 | 1,798 | 0,000 | 0,7 | 1,798 | 1,798 | ISO 17025 | XRF (fusion) | - |
| 29 | 1,745 | 0,007 | -0,2 | 1,750 | 1,740 | ISO 17025 | XRF (fusion) | - |
| 31 | 1,705 | 0,007 | -0,8 | 1,700 | 1,710 | ISO 17025 | XRF (fusion) | - |
| 32 | 1,805 | 0,007 | 0,8 | 1,800 | 1,810 | no accreditation | XRF (fusion) | - |
| 33 | 1,785 | 0,021 | 0,5 | 1,770 | 1,800 | no accreditation | XRF (Pellet) info only | - |
| 34 | 1,780 | 0,000 | 0,4 | 1,780 | 1,780 | no accreditation | XRF (fusion) | - |
| 36 | 1,720 | 0,014 | -0,6 | 1,730 | 1,710 | ISO 17025 | XRF (fusion) | - |
| 37 | 1,750 | 0,000 | -0,1 | 1,750 | 1,750 | no accreditation | XRF (fusion) | - |
| 38 | 1,830 | | 1,2 | 1,830 | | ISO 17025 | XRF (fusion) | - |
| 40 | 1,735 | 0,007 | -0,3 | 1,740 | 1,730 | ISO 17025 | XRF (fusion) | - |
| 41 | 1,835 | 0,064 | 1,3 | 1,880 | 1,790 | no accreditation | ICP-OES | C |
| 42 | 1,090 | 0,014 | -10,7 | 1,080 | 1,100 | no accreditation | XRF (fusion) | - |
| 43 | 0,943 | 0,191 | -13,0 | 1,078 | 0,807 | no accreditation | other | C, TXRF |
| 44 | 1,785 | 0,007 | 0,5 | 1,790 | 1,780 | no accreditation | XRF (fusion) | - |
| 45 | 1,790 | 0,000 | 0,5 | 1,790 | 1,790 | ISO 17025 | XRF (fusion) | - |
| 47 | 1,780 | 0,014 | 0,4 | 1,790 | 1,770 | ISO 17025 | XRF (fusion) | - |
| 48 | 1,615 | 0,007 | -2,3 | 1,620 | 1,610 | ISO 17025 | XRF (fusion) | - |
| 49 | 1,725 | 0,007 | -0,5 | 1,720 | 1,730 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 50 | 1,755 | 0,007 | 0,0 | 1,750 | 1,760 | no accreditation | XRF (fusion) | - |
| 51 | 1,755 | 0,007 | 0,0 | 1,760 | 1,750 | no accreditation | XRF (fusion) | - |
| 52 | 1,572 | 0,003 | -3,0 | 1,574 | 1,570 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 1,660 | 0,014 | -1,5 | 1,650 | 1,670 | no accreditation | XRF (fusion) | - |
| 55 | 1,726 | 0,013 | -0,5 | 1,716 | 1,735 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 1,780 | | 0,4 | 1,780 | | no accreditation | XRF (fusion) | - |
| 57 | 1,762 | 0,011 | 0,1 | 1,754 | 1,770 | ISO 17025 | XRF (fusion) | - |
| 59 | 1,730 | 0,000 | -0,4 | 1,730 | 1,730 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,068 % TM
Measurand: K2O **Repeat. s.d.:** 0,010 % TM
Mean ± U(Mean): 0,867 ± 0,027 % TM **Range of tolerance:** 0,730 - 1,003 % TM ($|z\text{-score}| \leq 2,0$)
No. of laboratories: 39 **Sample:** DIN 38402 A45
Assigned value: 0,867 % TM (Empirical value) **Target s.d.:** 0,068 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-------------|
| 02 | 0,917 | 0,001 | 0,7 | 0,917 | 0,918 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,861 | 0,012 | -0,1 | 0,870 | 0,853 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 1,100 | | 3,4 | 1,100 | | ISO 17025 | ICP-OES | - |
| 07 | 0,730 | 0,000 | -2,0 | 0,730 | 0,730 | no accreditation | XRF (fusion) | - |
| 10 | 0,845 | 0,005 | -0,3 | 0,849 | 0,842 | no accreditation | XRF (fusion) | - |

RV118

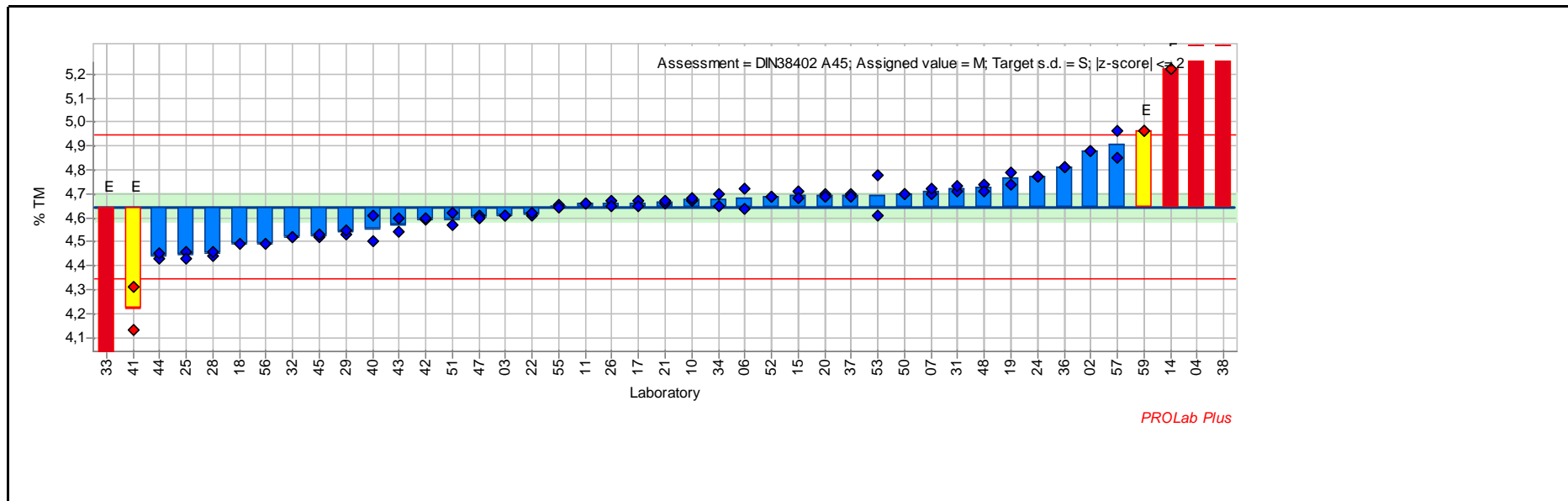
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,920 | 0,000 | 0,8 | 0,920 | 0,920 | no accreditation | XRF (fusion) | - |
| 14 | 0,875 | 0,007 | 0,1 | 0,880 | 0,870 | no accreditation | XRF (fusion) | - |
| 15 | 0,865 | 0,007 | 0,0 | 0,870 | 0,860 | no accreditation | XRF (fusion) | - |
| 17 | 0,804 | 0,016 | -0,9 | 0,815 | 0,793 | no accreditation | XRF (fusion) | - |
| 18 | 0,902 | | 0,5 | 0,902 | | no accreditation | XRF (fusion) | - |
| 19 | 0,760 | 0,000 | -1,6 | 0,760 | 0,760 | no accreditation | XRF (fusion) | - |
| 20 | 0,940 | 0,005 | 1,1 | 0,936 | 0,943 | no accreditation | ICP-OES | - |
| 21 | 0,905 | 0,007 | 0,6 | 0,900 | 0,910 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,850 | 0,000 | -0,2 | 0,850 | 0,850 | no accreditation | XRF (fusion) | - |
| 23 | 0,852 | 0,007 | -0,2 | 0,857 | 0,847 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,911 | 0,004 | 0,7 | 0,909 | 0,914 | no accreditation | XRF (fusion) | - |
| 25 | 0,850 | 0,014 | -0,2 | 0,860 | 0,840 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,907 | 0,001 | 0,6 | 0,906 | 0,907 | ISO 17025 | ICP-OES | - |
| 28 | 0,910 | 0,016 | 0,6 | 0,921 | 0,899 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,915 | 0,007 | 0,7 | 0,920 | 0,910 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,449 | 0,011 | -6,1 | 0,441 | 0,457 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,885 | 0,007 | 0,3 | 0,880 | 0,890 | no accreditation | XRF (fusion) | - |
| 33 | 0,950 | 0,042 | 1,2 | 0,980 | 0,920 | no accreditation | XRF (Pellet) info only | C |
| 34 | 0,865 | 0,007 | 0,0 | 0,860 | 0,870 | no accreditation | XRF (fusion) | - |
| 36 | 0,890 | 0,000 | 0,3 | 0,890 | 0,890 | no accreditation | other | AAS |
| 37 | 0,756 | 0,050 | -1,6 | 0,720 | 0,791 | no accreditation | XRF (fusion) | C |
| 38 | 1,150 | | 4,1 | 1,150 | | ISO 17025 | ICP-OES | - |
| 40 | 0,830 | 0,000 | -0,5 | 0,830 | 0,830 | ISO 17025 | XRF (fusion) | - |
| 41 | 2,175 | 0,148 | 19,1 | 2,280 | 2,070 | no accreditation | ICP-OES | C |
| 42 | 0,932 | 0,016 | 1,0 | 0,944 | 0,921 | no accreditation | XRF (fusion) | - |
| 43 | 0,471 | 0,096 | -5,8 | 0,539 | 0,404 | no accreditation | other | C, TXRF |
| 44 | 0,820 | 0,000 | -0,7 | 0,820 | 0,820 | no accreditation | XRF (fusion) | - |
| 45 | 0,940 | 0,000 | 1,1 | 0,940 | 0,940 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,815 | 0,007 | -0,8 | 0,820 | 0,810 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,870 | 0,014 | 0,1 | 0,860 | 0,880 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,890 | 0,014 | 0,3 | 0,880 | 0,900 | no accreditation | XRF (fusion) | - |
| 50 | 0,875 | 0,007 | 0,1 | 0,870 | 0,880 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 51 | 0,870 | 0,000 | 0,1 | 0,870 | 0,870 | no accreditation | XRF (fusion) | - |
| 52 | 0,768 | 0,010 | -1,4 | 0,761 | 0,775 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,750 | 0,014 | -1,7 | 0,740 | 0,760 | no accreditation | XRF (fusion) | - |
| 55 | 0,873 | 0,001 | 0,1 | 0,873 | 0,872 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,820 | | -0,7 | 0,820 | | no accreditation | XRF (fusion) | - |
| 57 | 0,911 | 0,000 | 0,7 | 0,911 | 0,911 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,800 | 0,000 | -1,0 | 0,800 | 0,800 | no accreditation | XRF (fusion) | - |

RV118

| | | | |
|-----------------------------|-------------------------------------|----------------------------|---|
| Sample: | FLX-CRM 122 | Reprod. s.d.: | 0,151 % TM |
| Measurand: | LOI (1h @ 950°C) observed | Repeat. s.d.: | 0,017 % TM |
| Mean ± U(Mean): | 4,646 ± 0,057 % TM | Range of tolerance: | 4,344 - 4,947 % TM (z-score ≤ 2,0) |
| No. of laboratories: | 43 | Sample: | DIN 38402 A45 |
| Assigned value | 4,646 % TM (Empirical value) | Target s.d.: | 0,151 % TM (Empirical value) |



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 02 | 4,880 | 0,000 | 1,6 | 4,880 | 4,880 | ISO 17025 | 1h@950°C | - |
| 03 | 4,610 | 0,000 | -0,2 | 4,610 | 4,610 | no accreditation | Wet chemistry EN196-2 | - |
| 04 | 8,180 | | 23,4 | 8,180 | | ISO 17025 | 1h@950°C | - |
| 06 | 4,680 | 0,057 | 0,2 | 4,720 | 4,640 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 4,710 | 0,014 | 0,4 | 4,700 | 4,720 | no accreditation | 1h@950°C | - |

RV118

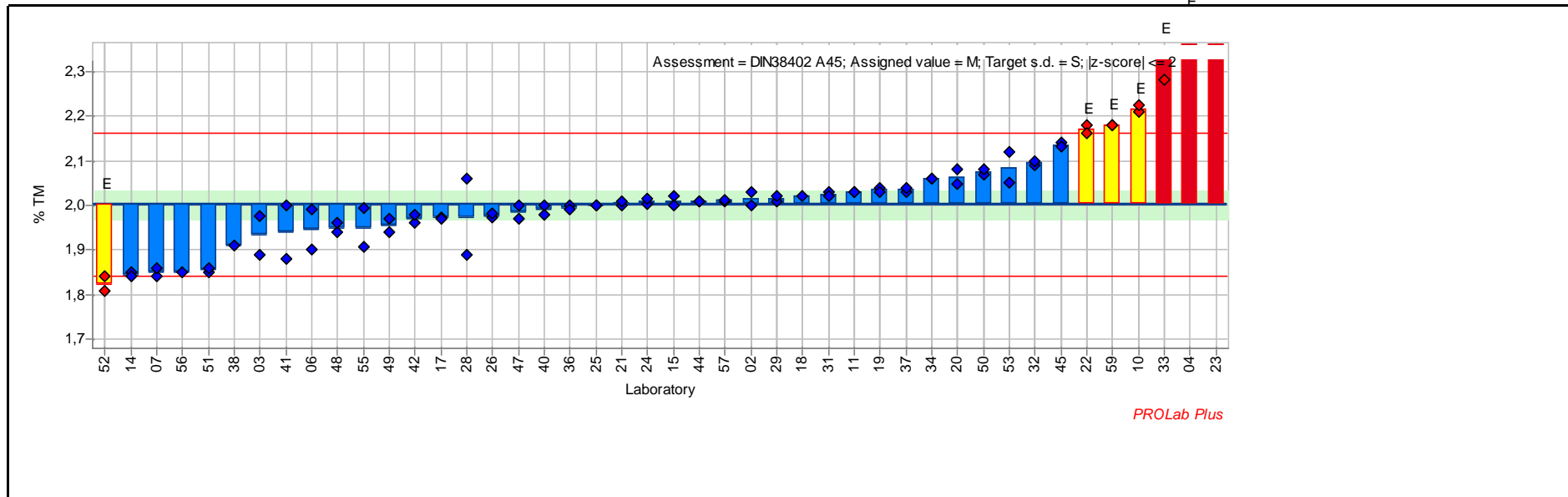
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|--------------------|
| 10 | 4,675 | 0,007 | 0,2 | 4,670 | 4,680 | no accreditation | XRF (fusion) | - |
| 11 | 4,660 | 0,000 | 0,1 | 4,660 | 4,660 | no accreditation | Wet chemistry EN196-2 | - |
| 14 | 5,220 | 0,000 | 3,8 | 5,220 | 5,220 | no accreditation | 1h@950°C | corr. EN 196-2 |
| 15 | 4,695 | 0,021 | 0,3 | 4,710 | 4,680 | no accreditation | 1h@950°C | - |
| 17 | 4,660 | 0,016 | 0,1 | 4,672 | 4,649 | no accreditation | 1h@950°C | - |
| 18 | 4,490 | | -1,0 | 4,490 | | no accreditation | 1h@950°C | - |
| 19 | 4,765 | 0,035 | 0,8 | 4,740 | 4,790 | no accreditation | 1h@950°C | - |
| 20 | 4,695 | 0,007 | 0,3 | 4,700 | 4,690 | no accreditation | 1h@950°C | - |
| 21 | 4,665 | 0,007 | 0,1 | 4,660 | 4,670 | ISO 17025 | Wet chemistry EN196-2 | - |
| 22 | 4,615 | 0,007 | -0,2 | 4,610 | 4,620 | no accreditation | 1h@950°C | - |
| 24 | 4,772 | 0,000 | 0,8 | 4,772 | 4,772 | no accreditation | 1h@950°C | - |
| 25 | 4,445 | 0,021 | -1,3 | 4,460 | 4,430 | ISO 17025 | 1h@950°C | - |
| 26 | 4,660 | 0,014 | 0,1 | 4,670 | 4,650 | ISO 17025 | 1h@950°C | - |
| 28 | 4,450 | 0,014 | -1,3 | 4,440 | 4,460 | ISO 17025 | 1h@950°C | - |
| 29 | 4,540 | 0,014 | -0,7 | 4,530 | 4,550 | ISO 17025 | 1h@950°C | due to S oxidation |
| 31 | 4,720 | 0,014 | 0,5 | 4,710 | 4,730 | no accreditation | 1h@950°C | - |
| 32 | 4,520 | 0,000 | -0,8 | 4,520 | 4,520 | no accreditation | 1h@950°C | - |
| 33 | 2,725 | 0,035 | -12,7 | 2,750 | 2,700 | no accreditation | 1h@950°C | - |
| 34 | 4,675 | 0,035 | 0,2 | 4,700 | 4,650 | no accreditation | 1h@950°C | - |
| 36 | 4,810 | 0,000 | 1,1 | 4,810 | 4,810 | ISO 17025 | 1h@950°C | - |
| 37 | 4,695 | 0,007 | 0,3 | 4,700 | 4,690 | no accreditation | 1h@950°C | - |
| 38 | 9,590 | | 32,8 | 9,590 | | no accreditation | 1h@950°C | - |
| 40 | 4,555 | 0,078 | -0,6 | 4,500 | 4,610 | ISO 17025 | XRF (fusion) | - |
| 41 | 4,220 | 0,127 | -2,8 | 4,310 | 4,130 | no accreditation | 1h@950°C | - |
| 42 | 4,595 | 0,007 | -0,3 | 4,590 | 4,600 | no accreditation | 1h@950°C | - |
| 43 | 4,570 | 0,042 | -0,5 | 4,600 | 4,540 | no accreditation | 1h@950°C | - |
| 44 | 4,440 | 0,014 | -1,4 | 4,430 | 4,450 | no accreditation | 1h@950°C | - |
| 45 | 4,525 | 0,007 | -0,8 | 4,520 | 4,530 | ISO 17025 | 1h@950°C | - |
| 47 | 4,605 | 0,007 | -0,3 | 4,610 | 4,600 | no accreditation | 1h@950°C | - |
| 48 | 4,725 | 0,021 | 0,5 | 4,740 | 4,710 | ISO 17025 | 1h@950°C | - |
| 50 | 4,700 | 0,000 | 0,4 | 4,700 | 4,700 | no accreditation | XRF (fusion) | - |
| 51 | 4,595 | 0,035 | -0,3 | 4,570 | 4,620 | ISO 17025 | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-----------------------|
| 52 | 4,690 | 0,000 | 0,3 | 4,690 | 4,690 | no accreditation | 1h@950°C | - |
| 53 | 4,695 | 0,120 | 0,3 | 4,780 | 4,610 | no accreditation | 1h@950°C | - |
| 55 | 4,649 | 0,006 | 0,0 | 4,654 | 4,645 | no accreditation | DIN EN 15169 | Reconstitution Method |
| 56 | 4,490 | | -1,0 | 4,490 | | no accreditation | 1h@950°C | - |
| 57 | 4,905 | 0,078 | 1,7 | 4,960 | 4,850 | ISO 17025 | 1h@950°C | - |
| 59 | 4,960 | 0,000 | 2,1 | 4,960 | 4,960 | no accreditation | 1h@950°C | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,080 % TM
Measurand: MgO **Repeat. s.d.:** 0,015 % TM
Mean ± U(Mean): 2,001 ± 0,031 % TM **Range of tolerance:** 1,841 - 2,162 % TM (|z-score| <= 2,0)
No. of laboratories: 41 **Sample:** DIN 38402 A45
Assigned value: 2,001 % TM (Empirical value) **Target s.d.:** 0,080 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 2,014 | 0,022 | 0,2 | 1,999 | 2,030 | ISO 17025 | XRF (fusion) | - |
| 03 | 1,933 | 0,060 | -0,9 | 1,975 | 1,890 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 2,410 | | 5,1 | 2,410 | | ISO 17025 | ICP-OES | - |
| 06 | 1,945 | 0,064 | -0,7 | 1,990 | 1,900 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 1,850 | 0,014 | -1,9 | 1,840 | 1,860 | no accreditation | XRF (fusion) | - |

RV118

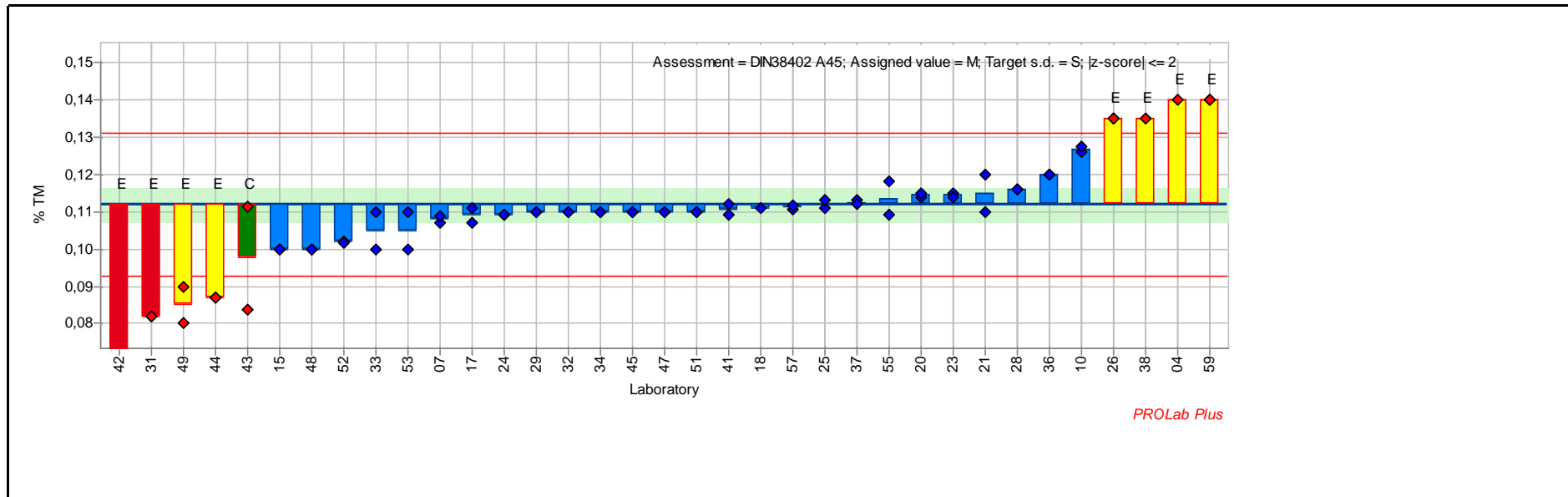
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 2,216 | 0,011 | 2,7 | 2,208 | 2,224 | no accreditation | XRF (fusion) | - |
| 11 | 2,030 | 0,000 | 0,4 | 2,030 | 2,030 | no accreditation | XRF (fusion) | - |
| 14 | 1,845 | 0,007 | -1,9 | 1,850 | 1,840 | no accreditation | XRF (fusion) | - |
| 15 | 2,010 | 0,014 | 0,1 | 2,020 | 2,000 | no accreditation | XRF (fusion) | - |
| 17 | 1,972 | 0,002 | -0,4 | 1,973 | 1,970 | no accreditation | XRF (fusion) | - |
| 18 | 2,020 | | 0,2 | 2,020 | | no accreditation | XRF (fusion) | - |
| 19 | 2,035 | 0,007 | 0,4 | 2,040 | 2,030 | no accreditation | XRF (fusion) | - |
| 20 | 2,064 | 0,023 | 0,8 | 2,080 | 2,047 | no accreditation | XRF (fusion) | - |
| 21 | 2,005 | 0,007 | 0,0 | 2,000 | 2,010 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 2,170 | 0,014 | 2,1 | 2,180 | 2,160 | no accreditation | XRF (fusion) | - |
| 23 | 2,454 | 0,011 | 5,6 | 2,461 | 2,446 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 2,010 | 0,008 | 0,1 | 2,004 | 2,015 | no accreditation | XRF (fusion) | - |
| 25 | 2,000 | 0,000 | 0,0 | 2,000 | 2,000 | ISO 17025 | XRF (fusion) | - |
| 26 | 1,977 | 0,006 | -0,3 | 1,972 | 1,981 | ISO 17025 | XRF (fusion) | - |
| 28 | 1,974 | 0,120 | -0,3 | 1,889 | 2,059 | ISO 17025 | XRF (fusion) | C |
| 29 | 2,015 | 0,007 | 0,2 | 2,010 | 2,020 | ISO 17025 | XRF (fusion) | - |
| 31 | 2,025 | 0,007 | 0,3 | 2,030 | 2,020 | ISO 17025 | XRF (fusion) | - |
| 32 | 2,095 | 0,007 | 1,2 | 2,090 | 2,100 | no accreditation | XRF (fusion) | - |
| 33 | 2,350 | 0,099 | 4,3 | 2,280 | 2,420 | no accreditation | XRF (Pellet) info only | - |
| 34 | 2,060 | 0,000 | 0,7 | 2,060 | 2,060 | no accreditation | XRF (fusion) | - |
| 36 | 1,995 | 0,007 | -0,1 | 2,000 | 1,990 | ISO 17025 | XRF (fusion) | - |
| 37 | 2,035 | 0,007 | 0,4 | 2,030 | 2,040 | no accreditation | XRF (fusion) | - |
| 38 | 1,910 | | -1,1 | 1,910 | | ISO 17025 | XRF (fusion) | - |
| 40 | 1,990 | 0,014 | -0,1 | 1,980 | 2,000 | ISO 17025 | XRF (fusion) | - |
| 41 | 1,940 | 0,085 | -0,8 | 2,000 | 1,880 | no accreditation | ICP-OES | - |
| 42 | 1,970 | 0,014 | -0,4 | 1,960 | 1,980 | no accreditation | XRF (fusion) | - |
| 44 | 2,010 | 0,000 | 0,1 | 2,010 | 2,010 | no accreditation | XRF (fusion) | - |
| 45 | 2,135 | 0,007 | 1,7 | 2,140 | 2,130 | ISO 17025 | XRF (fusion) | - |
| 47 | 1,985 | 0,021 | -0,2 | 2,000 | 1,970 | ISO 17025 | XRF (fusion) | - |
| 48 | 1,950 | 0,014 | -0,6 | 1,940 | 1,960 | ISO 17025 | XRF (fusion) | - |
| 49 | 1,955 | 0,021 | -0,6 | 1,940 | 1,970 | no accreditation | XRF (fusion) | - |
| 50 | 2,075 | 0,007 | 0,9 | 2,070 | 2,080 | no accreditation | XRF (fusion) | - |

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| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 51 | 1,855 | 0,007 | -1,8 | 1,850 | 1,860 | no accreditation | XRF (fusion) | - |
| 52 | 1,825 | 0,023 | -2,2 | 1,808 | 1,841 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 2,085 | 0,049 | 1,0 | 2,120 | 2,050 | no accreditation | XRF (fusion) | - |
| 55 | 1,950 | 0,061 | -0,6 | 1,907 | 1,993 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 1,850 | | -1,9 | 1,850 | | no accreditation | XRF (fusion) | - |
| 57 | 2,011 | 0,002 | 0,1 | 2,010 | 2,013 | ISO 17025 | XRF (fusion) | - |
| 59 | 2,180 | 0,000 | 2,2 | 2,180 | 2,180 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,010 % TM
Measurand: Mn2O3 **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,112 ± 0,004 % TM **Range of tolerance:** 0,093 - 0,131 % TM (|z-score| <= 2,0)
No. of laboratories: 30 **Sample:** DIN 38402 A45
Assigned value: 0,112 % TM (Empirical value) **Target s.d.:** 0,010 % TM (Empirical value)



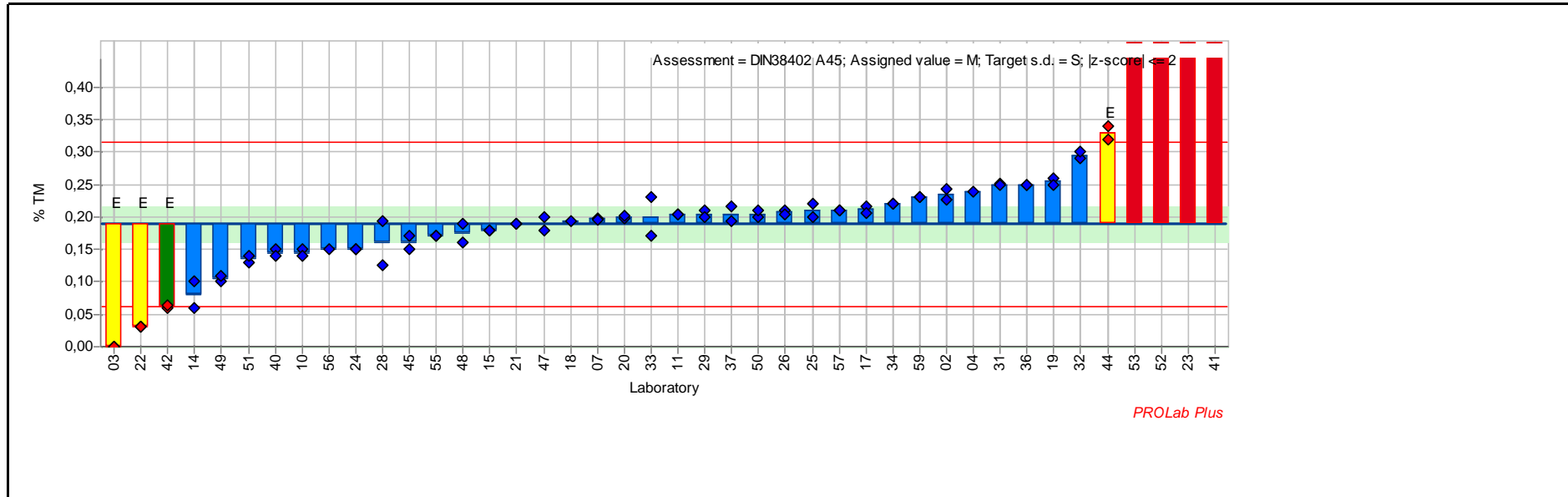
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 04 | 0,140 | | 2,9 | 0,140 | | ISO 17025 | ICP-OES | - |
| 07 | 0,108 | 0,001 | -0,4 | 0,107 | 0,109 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,127 | 0,001 | 1,5 | 0,126 | 0,127 | no accreditation | XRF (fusion) | - |
| 14 | | | | | | | | - |
| 15 | 0,100 | 0,000 | -1,2 | 0,100 | 0,100 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------------------|
| 17 | 0,109 | 0,003 | -0,3 | 0,111 | 0,107 | no accreditation | XRF (fusion) | - |
| 18 | 0,111 | | -0,1 | 0,111 | | no accreditation | XRF (fusion) | - |
| 20 | 0,115 | 0,001 | 0,3 | 0,114 | 0,115 | no accreditation | XRF (fusion) | - |
| 21 | 0,115 | 0,007 | 0,3 | 0,110 | 0,120 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,115 | 0,001 | 0,3 | 0,115 | 0,114 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,109 | 0,000 | -0,3 | 0,109 | 0,109 | no accreditation | XRF (fusion) | - |
| 25 | 0,112 | 0,001 | 0,0 | 0,111 | 0,113 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,135 | 0,000 | 2,4 | 0,135 | 0,135 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,116 | 0,000 | 0,4 | 0,116 | 0,116 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,082 | 0,000 | -3,1 | 0,082 | 0,082 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 32 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 33 | 0,105 | 0,007 | -0,7 | 0,100 | 0,110 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 36 | 0,120 | 0,000 | 0,8 | 0,120 | 0,120 | ISO 17025 | XRF (fusion) | - |
| 37 | 0,113 | 0,001 | 0,1 | 0,113 | 0,112 | no accreditation | XRF (fusion) | - |
| 38 | 0,135 | | 2,4 | 0,135 | | ISO 17025 | ICP-OES | - |
| 41 | 0,111 | 0,002 | -0,1 | 0,112 | 0,109 | no accreditation | ICP-OES | - |
| 42 | 0,051 | 0,001 | -6,3 | 0,050 | 0,052 | no accreditation | XRF (fusion) | - |
| 43 | 0,098 | 0,020 | -1,5 | 0,112 | 0,084 | no accreditation | other | C, TXRF |
| 44 | 0,087 | 0,000 | -2,6 | 0,087 | 0,087 | no accreditation | XRF (fusion) | calc. from MnO |
| 45 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 48 | 0,100 | 0,000 | -1,2 | 0,100 | 0,100 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,085 | 0,007 | -2,8 | 0,090 | 0,080 | no accreditation | XRF (fusion) | - |
| 51 | 0,110 | 0,000 | -0,2 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 52 | 0,102 | 0,000 | -1,0 | 0,102 | 0,102 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,105 | 0,007 | -0,7 | 0,110 | 0,100 | no accreditation | XRF (fusion) | - |
| 55 | 0,113 | 0,006 | 0,2 | 0,109 | 0,118 | no accreditation | XRF (fusion) | Reconstitution Method |
| 57 | 0,111 | 0,001 | -0,1 | 0,111 | 0,112 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,140 | 0,000 | 2,9 | 0,140 | 0,140 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,063 % TM
Measurand: Na2O **Repeat. s.d.:** 0,008 % TM
Mean ± U(Mean): 0,189 ± 0,027 % TM **Range of tolerance:** 0,062 - 0,316 % TM (|z-score| <= 2,0)
No. of laboratories: 35 **Sample:** DIN 38402 A45
Assigned value: 0,189 % TM (Empirical value) **Target s.d.:** 0,063 % TM (Empirical value) E



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,235 | 0,013 | 0,7 | 0,244 | 0,226 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,001 | 0,000 | -3,0 | 0,001 | 0,001 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,240 | | 0,8 | 0,240 | | ISO 17025 | ICP-OES | - |
| 07 | 0,197 | 0,002 | 0,1 | 0,198 | 0,196 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,145 | 0,007 | -0,7 | 0,150 | 0,140 | no accreditation | XRF (fusion) | - |

RV118

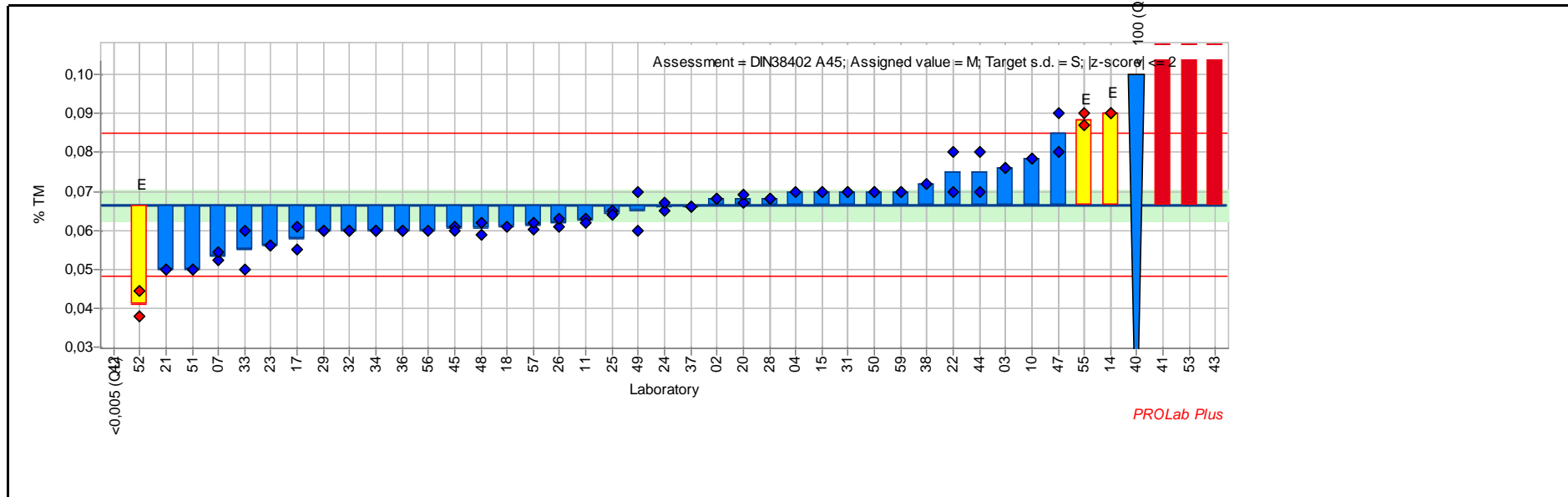
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,205 | 0,000 | 0,2 | 0,205 | 0,205 | no accreditation | XRF (fusion) | - |
| 14 | 0,080 | 0,028 | -1,7 | 0,100 | 0,060 | no accreditation | other | EDXRF fusion |
| 15 | 0,180 | 0,000 | -0,1 | 0,180 | 0,180 | no accreditation | XRF (fusion) | - |
| 17 | 0,211 | 0,006 | 0,3 | 0,216 | 0,207 | no accreditation | XRF (fusion) | - |
| 18 | 0,194 | | 0,1 | 0,194 | | no accreditation | XRF (fusion) | - |
| 19 | 0,255 | 0,007 | 1,0 | 0,260 | 0,250 | no accreditation | XRF (fusion) | - |
| 20 | 0,200 | 0,004 | 0,2 | 0,197 | 0,202 | no accreditation | ICP-OES | - |
| 21 | 0,190 | 0,000 | 0,0 | 0,190 | 0,190 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,030 | 0,000 | -2,5 | 0,030 | 0,030 | no accreditation | XRF (fusion) | - |
| 23 | 2,364 | 0,054 | 34,3 | 2,325 | 2,402 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,150 | 0,001 | -0,6 | 0,150 | 0,151 | no accreditation | XRF (fusion) | - |
| 25 | 0,210 | 0,014 | 0,3 | 0,200 | 0,220 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,207 | 0,004 | 0,3 | 0,210 | 0,205 | ISO 17025 | ICP-OES | - |
| 28 | 0,160 | 0,048 | -0,5 | 0,194 | 0,126 | ISO 17025 | XRF (fusion) | C |
| 29 | 0,205 | 0,007 | 0,2 | 0,210 | 0,200 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,250 | 0,001 | 1,0 | 0,251 | 0,249 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,295 | 0,007 | 1,7 | 0,290 | 0,300 | no accreditation | XRF (fusion) | - |
| 33 | 0,200 | 0,042 | 0,2 | 0,170 | 0,230 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,220 | 0,000 | 0,5 | 0,220 | 0,220 | no accreditation | XRF (fusion) | - |
| 36 | 0,250 | 0,000 | 1,0 | 0,250 | 0,250 | no accreditation | other | AAS |
| 37 | 0,205 | 0,017 | 0,2 | 0,193 | 0,217 | no accreditation | XRF (fusion) | - |
| 40 | 0,145 | 0,007 | -0,7 | 0,150 | 0,140 | no accreditation | other | AAS |
| 41 | 7,740 | 1,216 | 119,0 | 8,600 | 6,880 | no accreditation | ICP-OES | C |
| 42 | 0,062 | 0,003 | -2,0 | 0,060 | 0,064 | no accreditation | XRF (fusion) | - |
| 44 | 0,330 | 0,014 | 2,2 | 0,320 | 0,340 | no accreditation | XRF (fusion) | - |
| 45 | 0,160 | 0,014 | -0,5 | 0,170 | 0,150 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,190 | 0,014 | 0,0 | 0,180 | 0,200 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,175 | 0,021 | -0,2 | 0,160 | 0,190 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,105 | 0,007 | -1,3 | 0,100 | 0,110 | no accreditation | XRF (fusion) | - |
| 50 | 0,205 | 0,007 | 0,2 | 0,200 | 0,210 | no accreditation | XRF (fusion) | - |
| 51 | 0,135 | 0,007 | -0,9 | 0,130 | 0,140 | no accreditation | XRF (fusion) | - |
| 52 | 1,872 | 0,110 | 26,5 | 1,794 | 1,949 | no accreditation | XRF (Pellet) info only | C, EDXRF |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|---------|
| 53 | 0,540 | 0,028 | 5,5 | 0,520 | 0,560 | no accreditation | XRF (fusion) | - |
| 55 | 0,172 | 0,000 | -0,3 | 0,172 | 0,172 | no accreditation | XRF (fusion) | - |
| 56 | 0,150 | | -0,6 | 0,150 | | no accreditation | XRF (fusion) | - |
| 57 | 0,210 | 0,001 | 0,3 | 0,211 | 0,210 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,230 | 0,000 | 0,6 | 0,230 | 0,230 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,009 % TM
Measurand: P2O5 **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,067 ± 0,004 % TM **Range of tolerance:** 0,048 - 0,085 % TM (|z-score| ≤ 2,0) BE
No. of laboratories: 35 **Sample:** DIN 38402 A45
Assigned value: 0,067 % TM (Empirical value) **Target s.d.:** 0,009 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,068 | 0,000 | 0,2 | 0,068 | 0,068 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,076 | 0,000 | 1,0 | 0,076 | 0,076 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,070 | | 0,4 | 0,070 | | ISO 17025 | ICP-OES | - |
| 07 | 0,053 | 0,001 | -1,4 | 0,052 | 0,054 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,078 | 0,000 | 1,3 | 0,078 | 0,078 | no accreditation | XRF (fusion) | - |

RV118

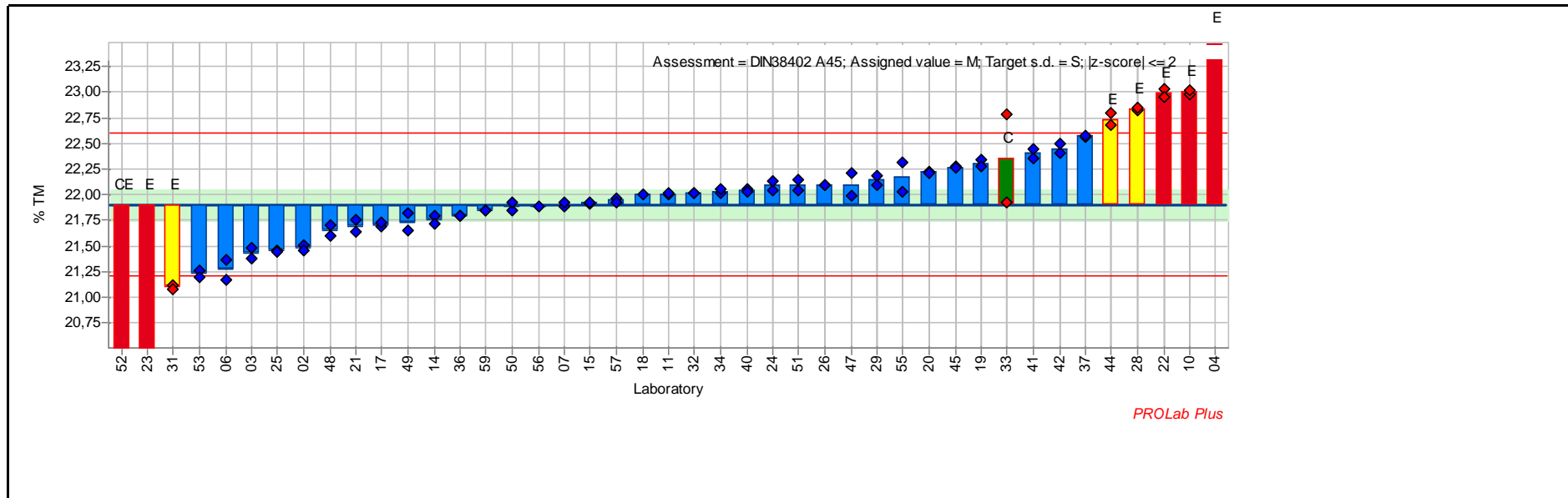
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,063 | 0,001 | -0,4 | 0,063 | 0,062 | no accreditation | XRF (fusion) | - |
| 14 | 0,090 | 0,000 | 2,5 | 0,090 | 0,090 | no accreditation | XRF (fusion) | - |
| 15 | 0,070 | 0,000 | 0,4 | 0,070 | 0,070 | no accreditation | XRF (fusion) | - |
| 17 | 0,058 | 0,004 | -0,9 | 0,055 | 0,061 | no accreditation | XRF (fusion) | - |
| 18 | 0,061 | | -0,6 | 0,061 | | no accreditation | XRF (fusion) | - |
| 20 | 0,068 | 0,001 | 0,2 | 0,067 | 0,069 | no accreditation | XRF (fusion) | - |
| 21 | 0,050 | 0,000 | -1,8 | 0,050 | 0,050 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 0,075 | 0,007 | 0,9 | 0,070 | 0,080 | no accreditation | XRF (fusion) | - |
| 23 | 0,056 | 0,000 | -1,2 | 0,056 | 0,056 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,066 | 0,001 | -0,1 | 0,065 | 0,067 | no accreditation | XRF (fusion) | - |
| 25 | 0,065 | 0,001 | -0,2 | 0,065 | 0,064 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,062 | 0,001 | -0,5 | 0,061 | 0,063 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,068 | 0,000 | 0,2 | 0,068 | 0,068 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,060 | 0,000 | -0,7 | 0,060 | 0,060 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,070 | 0,000 | 0,4 | 0,070 | 0,070 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,060 | 0,000 | -0,7 | 0,060 | 0,060 | no accreditation | XRF (fusion) | - |
| 33 | 0,055 | 0,007 | -1,3 | 0,050 | 0,060 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,060 | 0,000 | -0,7 | 0,060 | 0,060 | no accreditation | XRF (fusion) | - |
| 36 | 0,060 | 0,000 | -0,7 | 0,060 | 0,060 | ISO 17025 | XRF (fusion) | - |
| 37 | 0,066 | 0,000 | -0,1 | 0,066 | 0,066 | no accreditation | XRF (fusion) | - |
| 38 | 0,072 | | 0,6 | 0,072 | | ISO 17025 | ICP-OES | - |
| 40 | | | | <0,100 | <0,100 | ISO 17025 | XRF (fusion) | - |
| 41 | 0,139 | 0,004 | 7,8 | 0,136 | 0,141 | no accreditation | XRF (Pellet) info only | |
| 42 | | | | <0,005 | <0,005 | no accreditation | XRF (fusion) | - |
| 43 | 0,364 | 0,055 | 32,3 | 0,403 | 0,325 | no accreditation | other | C, TXRF |
| 44 | 0,075 | 0,007 | 0,9 | 0,070 | 0,080 | no accreditation | XRF (fusion) | - |
| 45 | 0,060 | 0,001 | -0,7 | 0,061 | 0,060 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,085 | 0,007 | 2,0 | 0,090 | 0,080 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,060 | 0,002 | -0,7 | 0,059 | 0,062 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,065 | 0,007 | -0,2 | 0,060 | 0,070 | no accreditation | XRF (fusion) | - |
| 50 | 0,070 | 0,000 | 0,4 | 0,070 | 0,070 | no accreditation | XRF (fusion) | - |
| 51 | 0,050 | 0,000 | -1,8 | 0,050 | 0,050 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 52 | 0,041 | 0,005 | -2,8 | 0,038 | 0,044 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,243 | 0,001 | 19,2 | 0,242 | 0,244 | no accreditation | XRF (fusion) | - |
| 55 | 0,088 | 0,002 | 2,4 | 0,090 | 0,087 | no accreditation | XRF (fusion) | - |
| 56 | 0,060 | | -0,7 | 0,060 | | no accreditation | XRF (fusion) | - |
| 57 | 0,061 | 0,001 | -0,6 | 0,060 | 0,062 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,070 | 0,000 | 0,4 | 0,070 | 0,070 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,349 % TM
Measurand: SiO2 **Repeat. s.d.:** 0,074 % TM
Mean ± U(Mean): 21,905 ± 0,154 % TM **Range of tolerance:** 21,206 - 22,604 % TM (|z-score| ≤ 2,0)
No. of laboratories: 32 **Sample:** DIN 38402 A45
Assigned value: 21,905 % TM (Empirical value) **Target s.d.:** 0,349 % TM (Empirical value)



| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|-------------|
| 02 | 21,488 | 0,036 | -1,2 | 21,513 | 21,462 | ISO 17025 | XRF (fusion) | - |
| 03 | 21,430 | 0,078 | -1,4 | 21,485 | 21,375 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 23,530 | | 4,7 | 23,530 | | ISO 17025 | ICP-OES | - |
| 06 | 21,270 | 0,141 | -1,8 | 21,370 | 21,170 | no accreditation | Wet chemistry EN196-2 | - |
| 07 | 21,905 | 0,021 | 0,0 | 21,890 | 21,920 | no accreditation | XRF (fusion) | - |

RV118

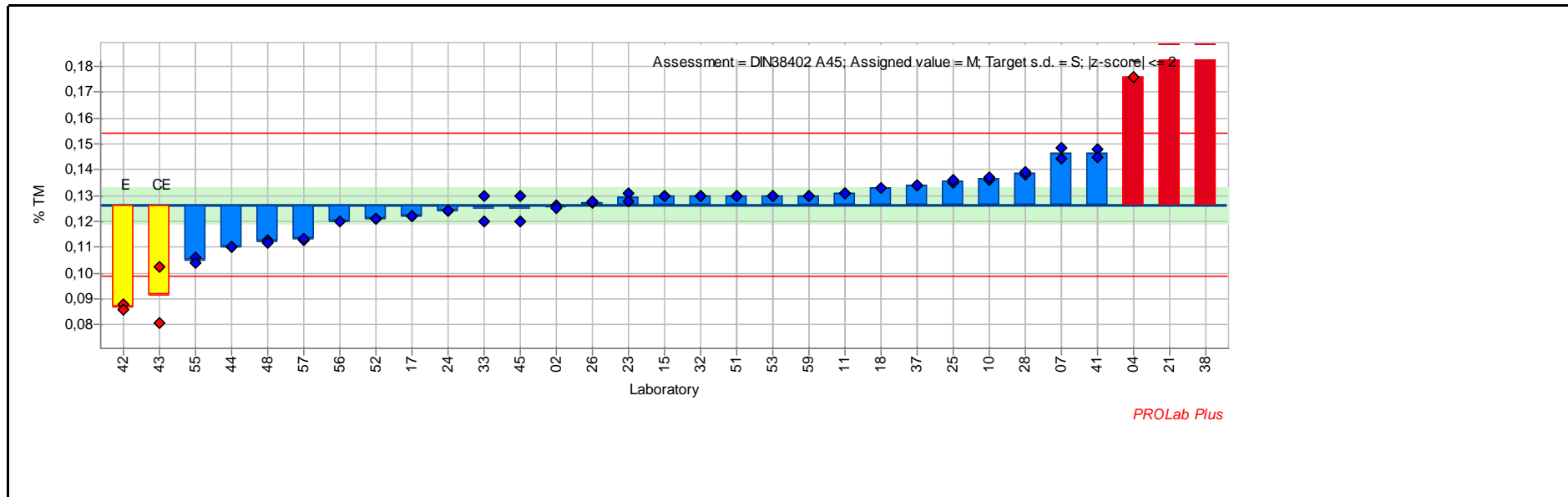
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 10 | 23,000 | 0,028 | 3,1 | 22,980 | 23,020 | no accreditation | XRF (fusion) | - |
| 11 | 22,005 | 0,007 | 0,3 | 22,000 | 22,010 | no accreditation | XRF (fusion) | - |
| 14 | 21,760 | 0,057 | -0,4 | 21,800 | 21,720 | no accreditation | XRF (fusion) | - |
| 15 | 21,920 | 0,014 | 0,0 | 21,910 | 21,930 | no accreditation | XRF (fusion) | - |
| 17 | 21,708 | 0,031 | -0,6 | 21,686 | 21,730 | no accreditation | XRF (fusion) | - |
| 18 | 22,000 | | 0,3 | 22,000 | | no accreditation | XRF (fusion) | - |
| 19 | 22,305 | 0,049 | 1,1 | 22,340 | 22,270 | no accreditation | XRF (fusion) | - |
| 20 | 22,220 | 0,014 | 0,9 | 22,230 | 22,210 | no accreditation | XRF (fusion) | - |
| 21 | 21,695 | 0,078 | -0,6 | 21,640 | 21,750 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 22 | 22,990 | 0,057 | 3,1 | 23,030 | 22,950 | no accreditation | XRF (fusion) | - |
| 23 | 20,130 | 0,071 | -5,1 | 20,180 | 20,080 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 22,088 | 0,065 | 0,5 | 22,042 | 22,134 | no accreditation | XRF (fusion) | - |
| 25 | 21,455 | 0,007 | -1,3 | 21,460 | 21,450 | ISO 17025 | XRF (fusion) | - |
| 26 | 22,098 | 0,001 | 0,6 | 22,099 | 22,097 | ISO 17025 | XRF (fusion) | - |
| 28 | 22,838 | 0,014 | 2,7 | 22,828 | 22,848 | ISO 17025 | XRF (fusion) | - |
| 29 | 22,140 | 0,057 | 0,7 | 22,180 | 22,100 | ISO 17025 | XRF (fusion) | - |
| 31 | 21,100 | 0,028 | -2,3 | 21,120 | 21,080 | ISO 17025 | XRF (fusion) | - |
| 32 | 22,015 | 0,007 | 0,3 | 22,010 | 22,020 | no accreditation | XRF (fusion) | - |
| 33 | 22,355 | 0,601 | 1,3 | 21,930 | 22,780 | no accreditation | XRF (Pellet) info only | C |
| 34 | 22,030 | 0,028 | 0,4 | 22,010 | 22,050 | no accreditation | XRF (fusion) | - |
| 36 | 21,800 | 0,000 | -0,3 | 21,800 | 21,800 | ISO 17025 | XRF (fusion) | - |
| 37 | 22,570 | 0,014 | 1,9 | 22,560 | 22,580 | no accreditation | XRF (fusion) | - |
| 40 | 22,040 | 0,014 | 0,4 | 22,050 | 22,030 | ISO 17025 | XRF (fusion) | - |
| 41 | 22,405 | 0,064 | 1,4 | 22,450 | 22,360 | no accreditation | XRF (Pellet) info only | |
| 42 | 22,450 | 0,071 | 1,6 | 22,400 | 22,500 | no accreditation | XRF (fusion) | - |
| 44 | 22,735 | 0,078 | 2,4 | 22,790 | 22,680 | no accreditation | XRF (fusion) | - |
| 45 | 22,265 | 0,007 | 1,0 | 22,270 | 22,260 | ISO 17025 | XRF (fusion) | - |
| 47 | 22,100 | 0,156 | 0,6 | 22,210 | 21,990 | ISO 17025 | XRF (fusion) | - |
| 48 | 21,650 | 0,071 | -0,7 | 21,700 | 21,600 | ISO 17025 | XRF (fusion) | - |
| 49 | 21,735 | 0,120 | -0,5 | 21,650 | 21,820 | no accreditation | XRF (fusion) | - |
| 50 | 21,890 | 0,057 | 0,0 | 21,850 | 21,930 | no accreditation | XRF (fusion) | - |
| 51 | 22,090 | 0,071 | 0,5 | 22,040 | 22,140 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 52 | 17,160 | 0,311 | -13,6 | 16,940 | 17,380 | no accreditation | XRF (Pellet) info only | C, EDXRF |
| 53 | 21,230 | 0,042 | -1,9 | 21,260 | 21,200 | no accreditation | XRF (fusion) | - |
| 55 | 22,169 | 0,204 | 0,8 | 22,025 | 22,313 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 21,890 | | 0,0 | 21,890 | | no accreditation | XRF (fusion) | - |
| 57 | 21,949 | 0,029 | 0,1 | 21,970 | 21,929 | ISO 17025 | XRF (fusion) | - |
| 59 | 21,850 | 0,000 | -0,2 | 21,850 | 21,850 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,014 % TM
Measurand: SrO **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,126 ± 0,007 % TM **Range of tolerance:** 0,099 - 0,154 % TM (|z-score| ≤ 2,0)
No. of laboratories: 26 **Sample:** DIN 38402 A45
Assigned value: 0,126 % TM (Empirical value) **Target s.d.:** 0,014 % TM (Empirical value) E



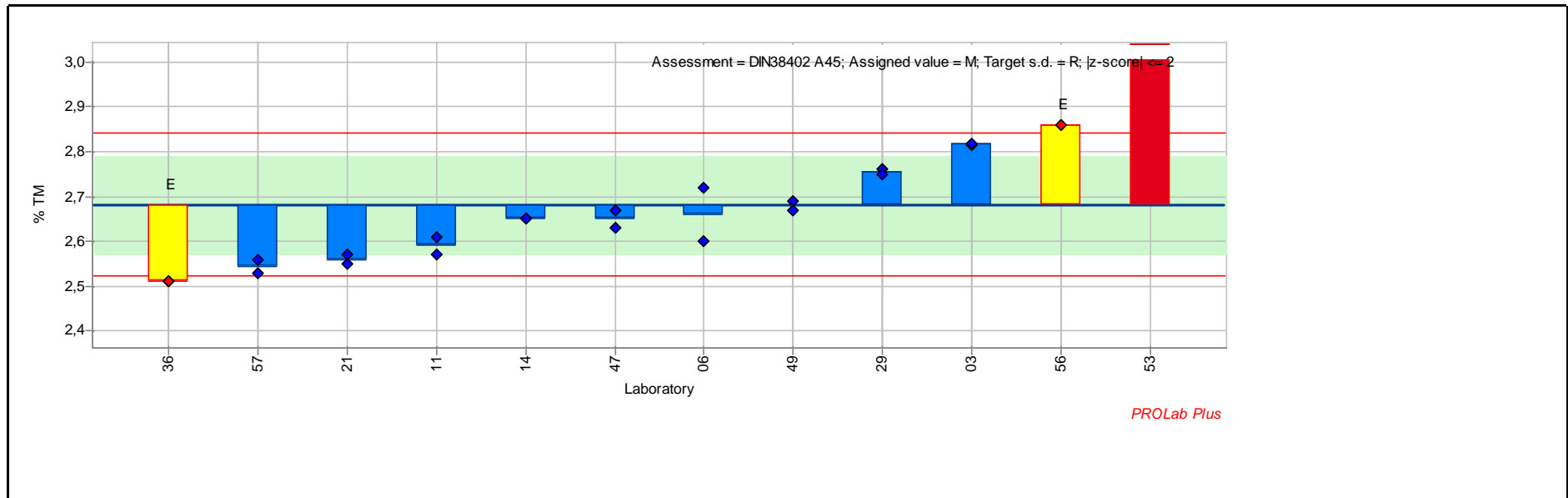
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 02 | 0,126 | 0,001 | -0,1 | 0,126 | 0,125 | ISO 17025 | XRF (fusion) | - |
| 04 | 0,176 | | 3,6 | 0,176 | 0,125 | ISO 17025 | ICP-OES | - |
| 07 | 0,146 | 0,003 | 1,4 | 0,148 | 0,144 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,137 | 0,001 | 0,7 | 0,136 | 0,137 | no accreditation | XRF (fusion) | - |
| 11 | 0,131 | 0,000 | 0,3 | 0,131 | 0,131 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-----------------------|
| 15 | 0,130 | 0,000 | 0,3 | 0,130 | 0,130 | no accreditation | XRF (fusion) | - |
| 17 | 0,122 | 0,000 | -0,3 | 0,122 | 0,122 | no accreditation | XRF (fusion) | - |
| 18 | 0,133 | | 0,5 | 0,133 | | no accreditation | XRF (fusion) | - |
| 21 | 0,206 | 0,001 | 5,7 | 0,205 | 0,207 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,130 | 0,002 | 0,2 | 0,131 | 0,128 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,124 | 0,000 | -0,2 | 0,124 | 0,124 | no accreditation | XRF (fusion) | - |
| 25 | 0,136 | 0,001 | 0,7 | 0,135 | 0,136 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,128 | 0,001 | 0,1 | 0,127 | 0,128 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,139 | 0,001 | 0,9 | 0,138 | 0,139 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,130 | 0,000 | 0,3 | 0,130 | 0,130 | no accreditation | XRF (fusion) | - |
| 33 | 0,125 | 0,007 | -0,1 | 0,120 | 0,130 | no accreditation | XRF (Pellet) info only | - |
| 37 | 0,134 | 0,000 | 0,5 | 0,134 | 0,134 | no accreditation | XRF (fusion) | - |
| 38 | 0,555 | | 30,9 | 0,555 | | ISO 17025 | ICP-OES | - |
| 41 | 0,146 | 0,002 | 1,4 | 0,148 | 0,145 | no accreditation | ICP-OES | - |
| 42 | 0,087 | 0,001 | -2,8 | 0,088 | 0,086 | no accreditation | XRF (fusion) | - |
| 43 | 0,092 | 0,015 | -2,5 | 0,102 | 0,081 | no accreditation | other | C, TXRF |
| 44 | 0,110 | 0,000 | -1,2 | 0,110 | 0,110 | no accreditation | XRF (fusion) | - |
| 45 | 0,125 | 0,007 | -0,1 | 0,120 | 0,130 | ISO 17025 | XRF (fusion) | C |
| 48 | 0,113 | 0,001 | -1,0 | 0,113 | 0,112 | ISO 17025 | XRF (fusion) | - |
| 51 | 0,130 | 0,000 | 0,3 | 0,130 | 0,130 | no accreditation | XRF (fusion) | - |
| 52 | 0,121 | 0,000 | -0,4 | 0,121 | 0,121 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,130 | 0,000 | 0,3 | 0,130 | 0,130 | no accreditation | XRF (fusion) | - |
| 55 | 0,105 | 0,001 | -1,5 | 0,106 | 0,104 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,120 | | -0,5 | 0,120 | | no accreditation | XRF (fusion) | - |
| 57 | 0,113 | 0,001 | -1,0 | 0,113 | 0,114 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,130 | 0,000 | 0,3 | 0,130 | 0,130 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,152 % TM
Measurand: Sulfate expressed as SO3 **Repeat. s.d.:** 0,026 % TM
Mean ± U(Mean): 2,682 ± 0,110 % TM **Range of tolerance:** 2,522 - 2,842 % TM (|z-score| ≤ 2,0)
No. of laboratories: 12 **Sample:** DIN 38402 A45
Assigned value: 2,682 % TM (Empirical value) **Target s.d.:** 0,080 % TM (Reference value) E



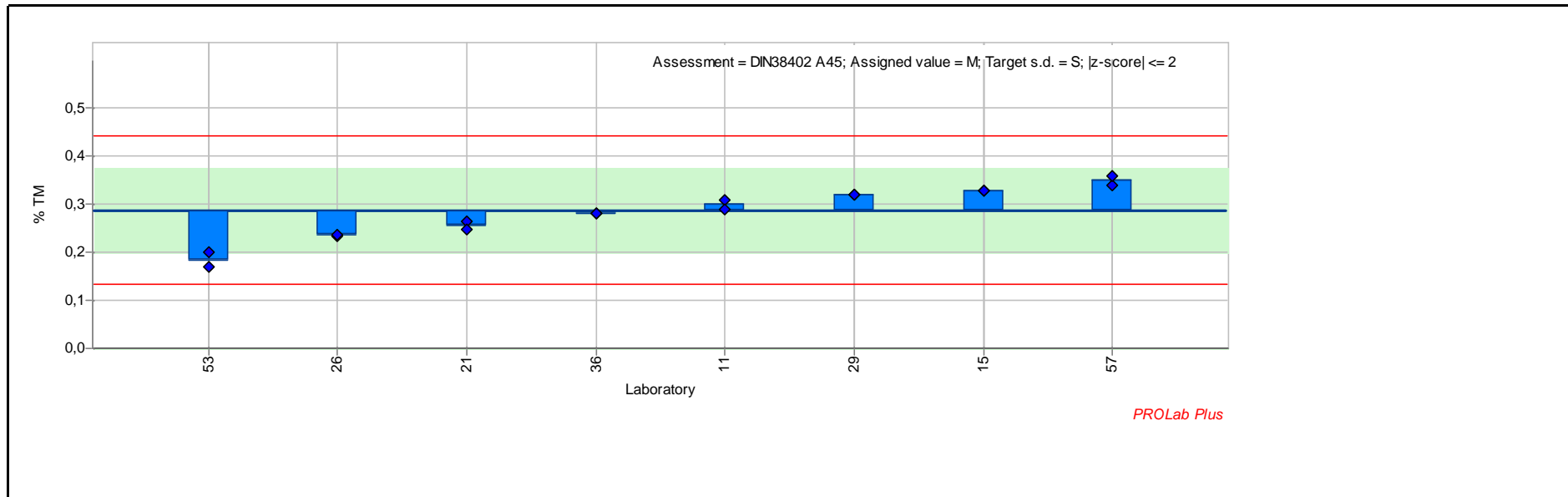
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 03 | 2,817 | 0,002 | 1,7 | 2,815 | 2,818 | no accreditation | Wet chemistry EN196-2 | - |
| 06 | 2,660 | 0,085 | -0,3 | 2,720 | 2,600 | no accreditation | Wet chemistry EN196-2 | - |
| 11 | 2,590 | 0,028 | -1,2 | 2,570 | 2,610 | no accreditation | Wet chemistry EN196-2 | - |
| 14 | 2,650 | 0,000 | -0,4 | 2,650 | 2,650 | no accreditation | Wet chemistry EN196-2 | - |
| 21 | 2,560 | 0,014 | -1,5 | 2,550 | 2,570 | ISO 17025 | Wet chemistry EN196-2 | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|---------|
| 29 | 2,755 | 0,007 | 0,9 | 2,760 | 2,750 | ISO 17025 | Wet chemistry EN196-2 | - |
| 36 | 2,510 | 0,000 | -2,2 | 2,510 | 2,510 | ISO 17025 | Wet chemistry EN196-2 | - |
| 47 | 2,650 | 0,028 | -0,4 | 2,630 | 2,670 | no accreditation | Wet chemistry EN196-2 | - |
| 49 | 2,680 | 0,014 | 0,0 | 2,690 | 2,670 | no accreditation | Wet chemistry EN196-2 | - |
| 51 | | | | | | no accreditation | XRF (fusion) | - |
| 53 | 3,135 | 0,049 | 5,7 | 3,170 | 3,100 | no accreditation | Wet chemistry EN196-2 | - |
| 56 | 2,860 | | 2,2 | 2,860 | | no accreditation | Wet chemistry EN196-2 | - |
| 57 | 2,545 | 0,021 | -1,7 | 2,530 | 2,560 | ISO 17025 | Wet chemistry EN196-2 | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,078 % TM
Measurand: Sulfide expressed as S **Repeat. s.d.:** 0,014 % TM
Mean ± U(Mean): 0,288 ± 0,087 % TM **Range of tolerance:** 0,133 - 0,444 % TM (|z-score| ≤ 2,0)
No. of laboratories: 5 **Sample:** DIN 38402 A45
Assigned value: 0,288 % TM (Empirical value) **Target s.d.:** 0,078 % TM (Empirical value)



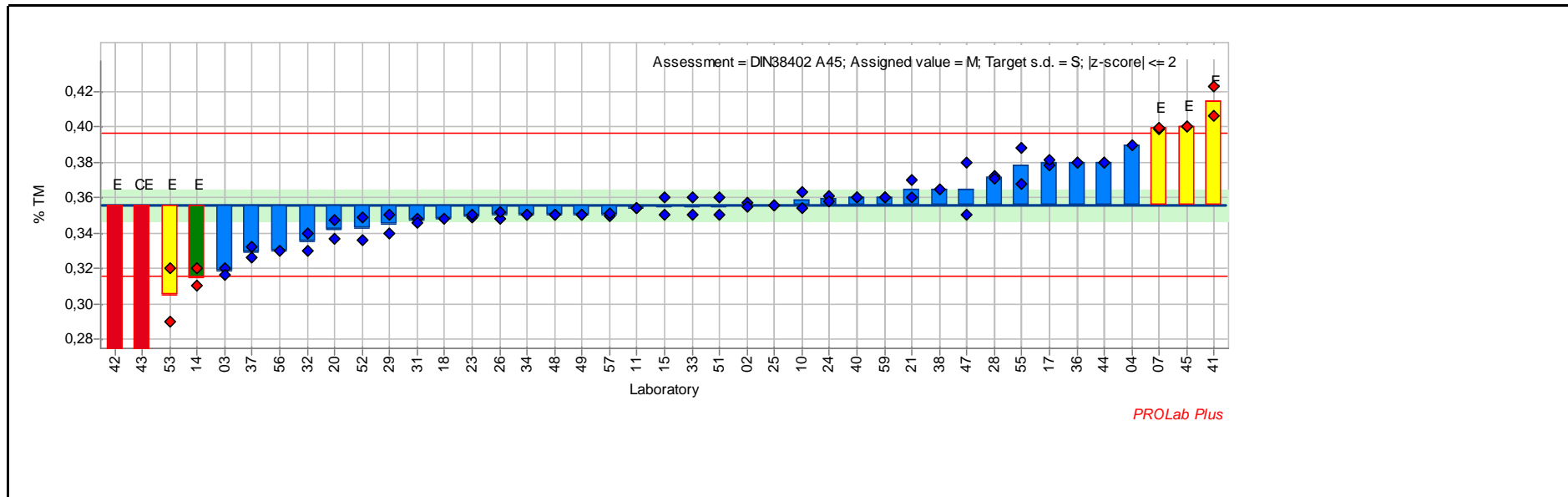
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------------|
| 11 | 0,300 | 0,014 | 0,2 | 0,310 | 0,290 | no accreditation | Standardless info only | - |
| 15 | 0,330 | 0,000 | 0,5 | 0,330 | 0,330 | no accreditation | Wet chemistry EN196-2 | - |
| 21 | 0,256 | 0,011 | -0,4 | 0,264 | 0,248 | ISO 17025 | Wet chemistry EN196-2 | - |
| 26 | 0,236 | 0,001 | -0,7 | 0,235 | 0,237 | ISO 17025 | other | DIN 38405-D27 |
| 29 | 0,320 | 0,000 | 0,4 | 0,320 | 0,320 | ISO 17025 | Wet chemistry EN196-2 | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-----------------------|----------------|
| 36 | 0,280 | 0,000 | -0,1 | 0,280 | 0,280 | no accreditation | other | Calculation |
| 53 | 0,185 | 0,021 | -1,3 | 0,170 | 0,200 | no accreditation | Wet chemistry EN196-2 | - |
| 57 | 0,350 | 0,014 | 0,8 | 0,340 | 0,360 | no accreditation | Wet chemistry EN196-2 | SO4 difference |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,020 % TM
Measurand: TiO2 **Repeat. s.d.:** 0,007 % TM
Mean ± U(Mean): 0,356 ± 0,008 % TM **Range of tolerance:** 0,315 - 0,397 % TM (|z-score| <= 2,0)
No. of laboratories: 36 **Sample:** DIN 38402 A45
Assigned value: 0,356 % TM (Empirical value) **Target s.d.:** 0,020 % TM (Empirical value)



PROLab Plus

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------|
| 02 | 0,356 | 0,001 | 0,0 | 0,357 | 0,355 | ISO 17025 | XRF (fusion) | - |
| 03 | 0,318 | 0,003 | -1,9 | 0,320 | 0,317 | no accreditation | XRF (fusion) | ISO 29581-2 |
| 04 | 0,390 | | 1,7 | 0,390 | | ISO 17025 | ICP-OES | - |
| 07 | 0,399 | 0,001 | 2,1 | 0,399 | 0,400 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,359 | 0,006 | 0,1 | 0,363 | 0,354 | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|------------------|
| 11 | 0,354 | 0,000 | -0,1 | 0,354 | 0,354 | no accreditation | XRF (fusion) | - |
| 14 | 0,315 | 0,007 | -2,0 | 0,310 | 0,320 | no accreditation | XRF (fusion) | - |
| 15 | 0,355 | 0,007 | -0,1 | 0,360 | 0,350 | no accreditation | XRF (fusion) | - |
| 17 | 0,380 | 0,002 | 1,2 | 0,378 | 0,381 | no accreditation | XRF (fusion) | - |
| 18 | 0,348 | | -0,4 | 0,348 | | no accreditation | XRF (fusion) | - |
| 20 | 0,342 | 0,007 | -0,7 | 0,347 | 0,337 | no accreditation | XRF (fusion) | - |
| 21 | 0,365 | 0,007 | 0,4 | 0,360 | 0,370 | ISO 17025 | XRF (fusion) | ISO 29581-2:2010 |
| 23 | 0,349 | 0,001 | -0,3 | 0,349 | 0,350 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,359 | 0,002 | 0,2 | 0,361 | 0,358 | no accreditation | XRF (fusion) | - |
| 25 | 0,356 | 0,000 | 0,0 | 0,356 | 0,356 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,350 | 0,003 | -0,3 | 0,348 | 0,352 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,371 | 0,001 | 0,8 | 0,372 | 0,371 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,345 | 0,007 | -0,5 | 0,350 | 0,340 | ISO 17025 | XRF (fusion) | - |
| 31 | 0,347 | 0,001 | -0,4 | 0,348 | 0,346 | ISO 17025 | XRF (fusion) | - |
| 32 | 0,335 | 0,007 | -1,0 | 0,330 | 0,340 | no accreditation | XRF (fusion) | - |
| 33 | 0,355 | 0,007 | -0,1 | 0,360 | 0,350 | no accreditation | XRF (Pellet) info only | - |
| 34 | 0,350 | 0,000 | -0,3 | 0,350 | 0,350 | no accreditation | XRF (fusion) | - |
| 36 | 0,380 | 0,000 | 1,2 | 0,380 | 0,380 | ISO 17025 | XRF (fusion) | - |
| 37 | 0,329 | 0,004 | -1,3 | 0,332 | 0,326 | no accreditation | XRF (fusion) | - |
| 38 | 0,365 | | 0,4 | 0,365 | | ISO 17025 | ICP-OES | - |
| 40 | 0,360 | 0,000 | 0,2 | 0,360 | 0,360 | ISO 17025 | XRF (fusion) | - |
| 41 | 0,414 | 0,012 | 2,9 | 0,423 | 0,406 | no accreditation | ICP-OES | - |
| 42 | 0,212 | 0,000 | -7,1 | 0,212 | 0,212 | no accreditation | XRF (fusion) | - |
| 43 | 0,230 | 0,049 | -6,2 | 0,264 | 0,196 | no accreditation | other | C, TXRF |
| 44 | 0,380 | 0,000 | 1,2 | 0,380 | 0,380 | no accreditation | XRF (fusion) | - |
| 45 | 0,400 | 0,000 | 2,2 | 0,400 | 0,400 | ISO 17025 | XRF (fusion) | - |
| 47 | 0,365 | 0,021 | 0,4 | 0,380 | 0,350 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,350 | 0,000 | -0,3 | 0,350 | 0,350 | ISO 17025 | XRF (fusion) | - |
| 49 | 0,350 | 0,000 | -0,3 | 0,350 | 0,350 | no accreditation | XRF (fusion) | - |
| 51 | 0,355 | 0,007 | -0,1 | 0,360 | 0,350 | no accreditation | XRF (fusion) | - |
| 52 | 0,343 | 0,009 | -0,7 | 0,336 | 0,349 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,305 | 0,021 | -2,5 | 0,320 | 0,290 | no accreditation | XRF (fusion) | - |

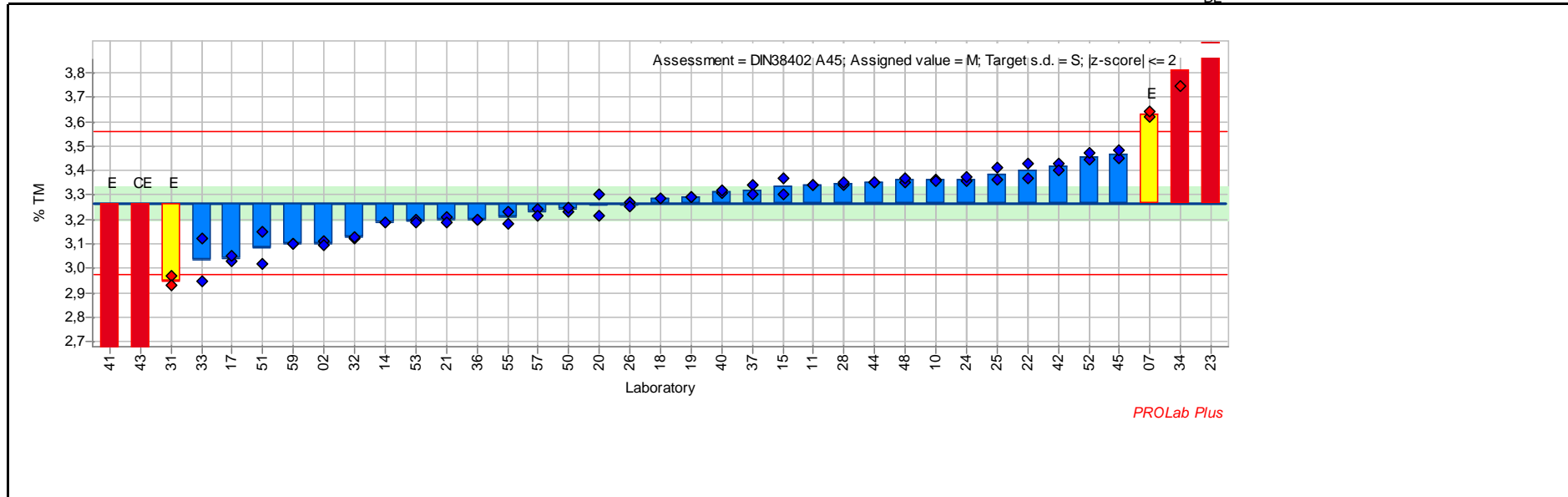
RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|-------------------|-----------------------|
| 55 | 0,378 | 0,014 | 1,1 | 0,388 | 0,368 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,330 | | -1,3 | 0,330 | | no accreditation | XRF (fusion) | - |
| 57 | 0,351 | 0,001 | -0,3 | 0,350 | 0,351 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,360 | 0,000 | 0,2 | 0,360 | 0,360 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,147 % TM
Measurand: Total S expressed as SO3 **Repeat. s.d.:** 0,025 % TM
Mean ± U(Mean): 3,267 ± 0,066 % TM **Range of tolerance:** 2,973 - 3,560 % TM (|z-score| ≤ 2,0)
No. of laboratories: 31 **Sample:** DIN 38402 A45
Assigned value: 3,267 % TM (Empirical value) **Target s.d.:** 0,147 % TM (Empirical value)

BE



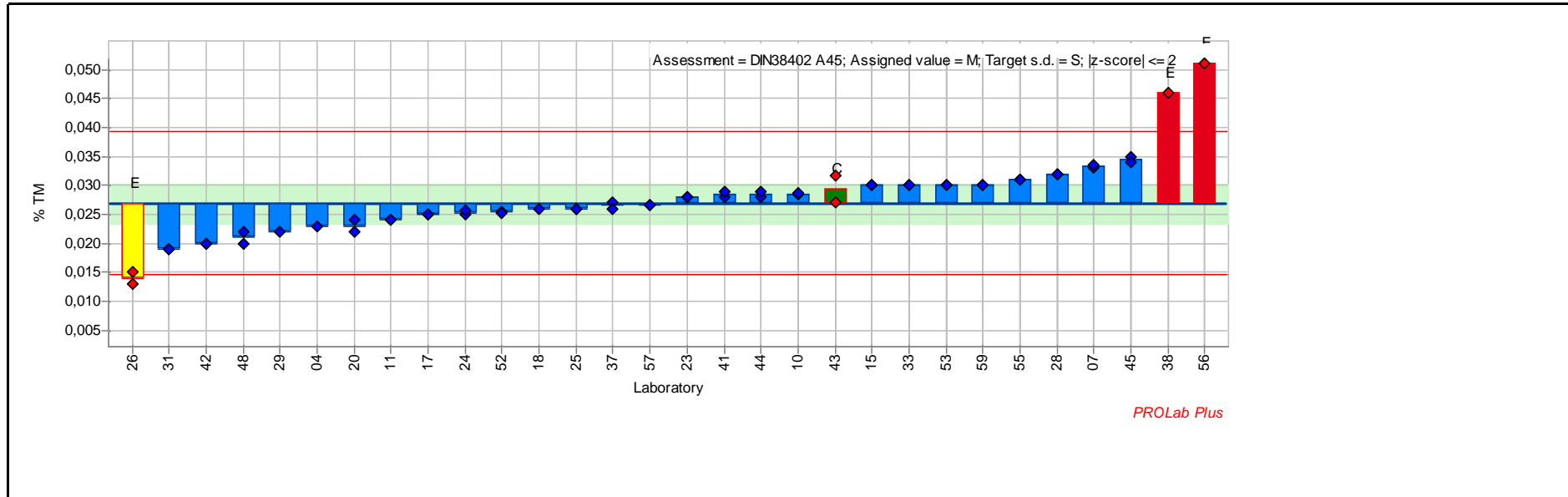
| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 02 | 3,101 | 0,011 | -1,1 | 3,109 | 3,094 | ISO 17025 | XRF (fusion) | - |
| 07 | 3,630 | 0,014 | 2,5 | 3,620 | 3,640 | no accreditation | XRF (Pellet) info only | - |
| 10 | 3,361 | 0,004 | 0,6 | 3,364 | 3,358 | no accreditation | XRF (fusion) | - |
| 11 | 3,340 | 0,000 | 0,5 | 3,340 | 3,340 | no accreditation | XRF (fusion) | - |
| 14 | 3,190 | | -0,5 | 3,190 | | no accreditation | XRF (fusion) | - |

RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|--------------------------|
| 15 | 3,335 | 0,049 | 0,5 | 3,300 | 3,370 | no accreditation | XRF (fusion) | - |
| 17 | 3,042 | 0,014 | -1,5 | 3,032 | 3,052 | no accreditation | XRF (fusion) | - |
| 18 | 3,287 | | 0,1 | 3,287 | | no accreditation | XRF (fusion) | - |
| 19 | 3,290 | 0,000 | 0,2 | 3,290 | 3,290 | no accreditation | XRF (fusion) | - |
| 20 | 3,259 | 0,064 | -0,1 | 3,214 | 3,304 | no accreditation | combustion | - |
| 21 | 3,200 | 0,014 | -0,5 | 3,210 | 3,190 | ISO 17025 | Wet chemistry EN196-2 | - |
| 22 | 3,400 | 0,042 | 0,9 | 3,430 | 3,370 | no accreditation | XRF (fusion) | - |
| 23 | 4,023 | 0,024 | 5,2 | 4,006 | 4,040 | ISO 17025 | XRF (Pellet) info only | - |
| 24 | 3,364 | 0,011 | 0,7 | 3,356 | 3,372 | no accreditation | XRF (fusion) | - |
| 25 | 3,385 | 0,035 | 0,8 | 3,360 | 3,410 | ISO 17025 | XRF (fusion) | - |
| 26 | 3,260 | 0,011 | 0,0 | 3,268 | 3,253 | ISO 17025 | combustion | - |
| 28 | 3,346 | 0,005 | 0,5 | 3,343 | 3,350 | ISO 17025 | XRF (fusion) | - |
| 31 | 2,950 | 0,028 | -2,2 | 2,970 | 2,930 | ISO 17025 | combustion | - |
| 32 | 3,125 | 0,007 | -1,0 | 3,120 | 3,130 | no accreditation | XRF (fusion) | - |
| 33 | 3,035 | 0,120 | -1,6 | 3,120 | 2,950 | no accreditation | XRF (Pellet) info only | C |
| 34 | 3,808 | 0,088 | 3,7 | 3,746 | 3,870 | no accreditation | XRF (fusion) | - |
| 36 | 3,200 | 0,000 | -0,5 | 3,200 | 3,200 | no accreditation | other | SR3T gravimetric Bromine |
| 37 | 3,320 | 0,028 | 0,4 | 3,340 | 3,300 | no accreditation | XRF (fusion) | - |
| 40 | 3,315 | 0,007 | 0,3 | 3,310 | 3,320 | ISO 17025 | XRF (fusion) | - |
| 41 | 1,320 | 0,042 | -13,3 | 1,290 | 1,350 | no accreditation | combustion | - |
| 42 | 3,415 | 0,021 | 1,0 | 3,430 | 3,400 | no accreditation | XRF (fusion) | - |
| 43 | 1,770 | 0,335 | -10,2 | 2,006 | 1,533 | no accreditation | other | C, TXRF |
| 44 | 3,350 | 0,000 | 0,6 | 3,350 | 3,350 | no accreditation | XRF (fusion) | - |
| 45 | 3,465 | 0,021 | 1,3 | 3,450 | 3,480 | ISO 17025 | combustion | - |
| 48 | 3,360 | 0,014 | 0,6 | 3,350 | 3,370 | ISO 17025 | combustion | - |
| 50 | 3,240 | 0,014 | -0,2 | 3,230 | 3,250 | no accreditation | XRF (fusion) | - |
| 51 | 3,085 | 0,092 | -1,2 | 3,150 | 3,020 | no accreditation | XRF (fusion) | - |
| 52 | 3,458 | 0,018 | 1,3 | 3,445 | 3,470 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 3,195 | 0,007 | -0,5 | 3,200 | 3,190 | no accreditation | XRF (fusion) | - |
| 55 | 3,208 | 0,033 | -0,4 | 3,232 | 3,185 | no accreditation | XRF (fusion) | Reconstitution Method |
| 57 | 3,231 | 0,020 | -0,2 | 3,244 | 3,217 | ISO 17025 | XRF (fusion) | - |
| 59 | 3,100 | 0,000 | -1,1 | 3,100 | 3,100 | no accreditation | XRF (fusion) | - |

RV118

Sample: FLX-CRM 122 **Reprod. s.d.:** 0,006 % TM
Measurand: ZnO **Repeat. s.d.:** 0,001 % TM
Mean ± U(Mean): 0,027 ± 0,003 % TM **Range of tolerance:** 0,015 - 0,039 % TM (|z-score| ≤ 2,0)
No. of laboratories: 23 **Sample:** DIN 38402 A45
Assigned value: 0,027 % TM (Empirical value) **Target s.d.:** 0,006 % TM (Empirical value)



PROLab Plus

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|---------|
| 04 | 0,023 | | -0,6 | 0,023 | | ISO 17025 | ICP-OES | - |
| 07 | 0,033 | 0,000 | 1,0 | 0,033 | 0,034 | no accreditation | XRF (Pellet) info only | - |
| 10 | 0,029 | 0,000 | 0,3 | 0,028 | 0,029 | no accreditation | XRF (fusion) | - |
| 11 | 0,024 | 0,000 | -0,5 | 0,024 | 0,024 | no accreditation | XRF (fusion) | - |
| 15 | 0,030 | 0,000 | 0,5 | 0,030 | 0,030 | no accreditation | XRF (fusion) | - |

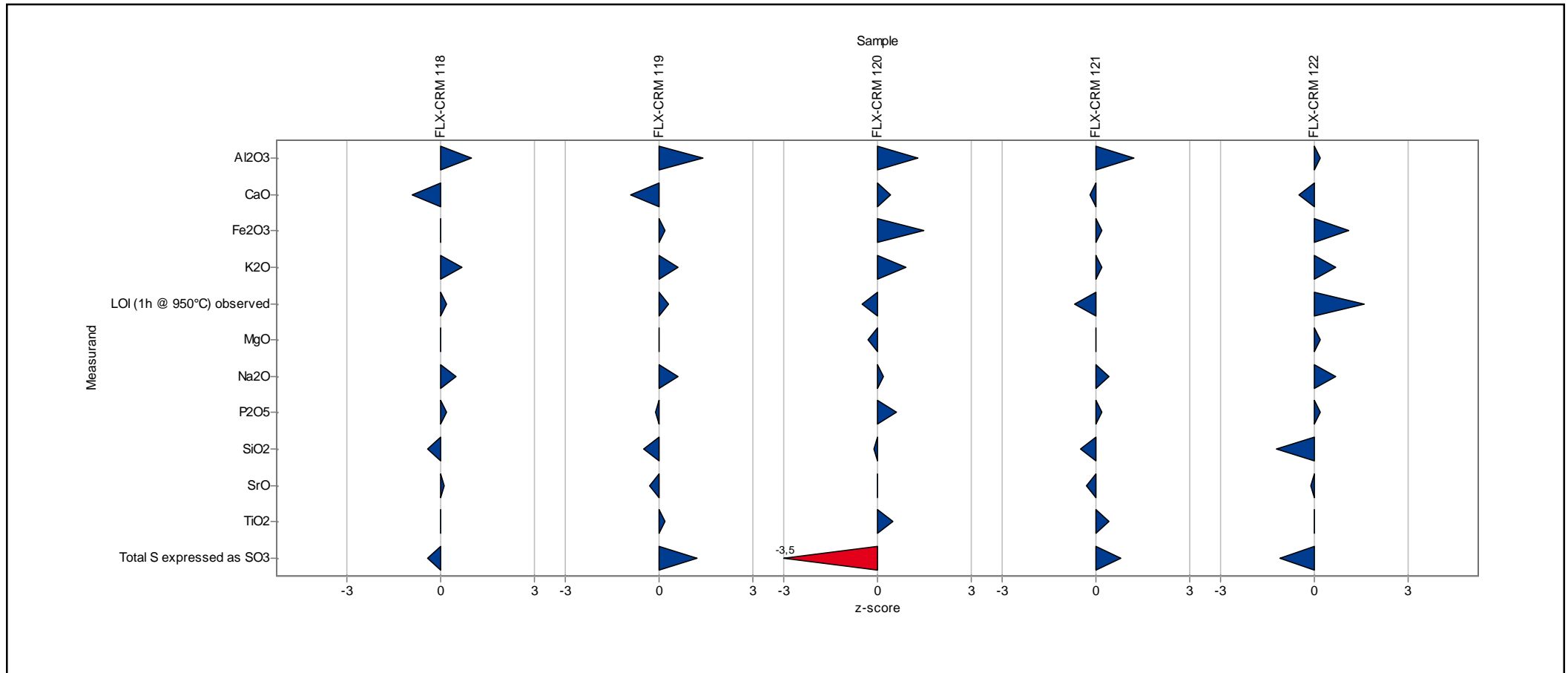
RV118

| Lab code | Lab mean | s.d. | z-score | Conc. 1 | Conc. 2 | Accreditation | Analytical method | Comment |
|----------|----------|-------|---------|---------|---------|------------------|------------------------|-------------------------|
| 17 | 0,025 | 0,000 | -0,3 | 0,025 | 0,025 | no accreditation | XRF (fusion) | - |
| 18 | 0,026 | | -0,2 | 0,026 | | no accreditation | XRF (fusion) | - |
| 20 | 0,023 | 0,001 | -0,6 | 0,024 | 0,022 | no accreditation | XRF (Pellet) info only | - |
| 23 | 0,028 | 0,000 | 0,2 | 0,028 | 0,028 | ISO 17025 | XRF (Pellet) info only | |
| 24 | 0,025 | 0,000 | -0,3 | 0,025 | 0,026 | no accreditation | XRF (fusion) | - |
| 25 | 0,026 | 0,000 | -0,2 | 0,026 | 0,026 | ISO 17025 | XRF (fusion) | - |
| 26 | 0,014 | 0,001 | -2,1 | 0,013 | 0,015 | ISO 17025 | XRF (fusion) | - |
| 28 | 0,032 | 0,000 | 0,8 | 0,032 | 0,032 | ISO 17025 | XRF (fusion) | - |
| 29 | 0,022 | | -0,8 | 0,022 | | no accreditation | Standardless info only | fused bead trace |
| 31 | 0,019 | 0,000 | -1,3 | 0,019 | 0,019 | ISO 17025 | ICP-OES | digestion in aqua regia |
| 33 | 0,030 | 0,000 | 0,5 | 0,030 | 0,030 | no accreditation | XRF (Pellet) info only | - |
| 37 | 0,026 | 0,001 | -0,1 | 0,027 | 0,026 | no accreditation | XRF (fusion) | - |
| 38 | 0,046 | | 3,1 | 0,046 | | ISO 17025 | ICP-OES | - |
| 41 | 0,029 | 0,001 | 0,3 | 0,028 | 0,029 | no accreditation | ICP-OES | - |
| 42 | 0,020 | 0,000 | -1,1 | 0,020 | 0,020 | no accreditation | XRF (fusion) | - |
| 43 | 0,029 | 0,003 | 0,4 | 0,032 | 0,027 | no accreditation | other | C, TXRF |
| 44 | 0,029 | 0,001 | 0,3 | 0,028 | 0,029 | no accreditation | XRF (fusion) | - |
| 45 | 0,035 | 0,001 | 1,2 | 0,035 | 0,034 | ISO 17025 | XRF (fusion) | - |
| 48 | 0,021 | 0,001 | -1,0 | 0,020 | 0,022 | ISO 17025 | XRF (fusion) | C |
| 52 | 0,025 | 0,000 | -0,3 | 0,025 | 0,025 | no accreditation | XRF (Pellet) info only | EDRFA |
| 53 | 0,030 | 0,000 | 0,5 | 0,030 | 0,030 | no accreditation | XRF (fusion) | - |
| 55 | 0,031 | 0,000 | 0,7 | 0,031 | 0,031 | no accreditation | XRF (fusion) | Reconstitution Method |
| 56 | 0,051 | | 3,9 | 0,051 | | no accreditation | XRF (fusion) | - |
| 57 | 0,027 | 0,000 | -0,1 | 0,027 | 0,026 | ISO 17025 | XRF (fusion) | - |
| 59 | 0,030 | 0,000 | 0,5 | 0,030 | 0,030 | no accreditation | XRF (fusion) | - |

RV118

Laboratory chart of z-scores

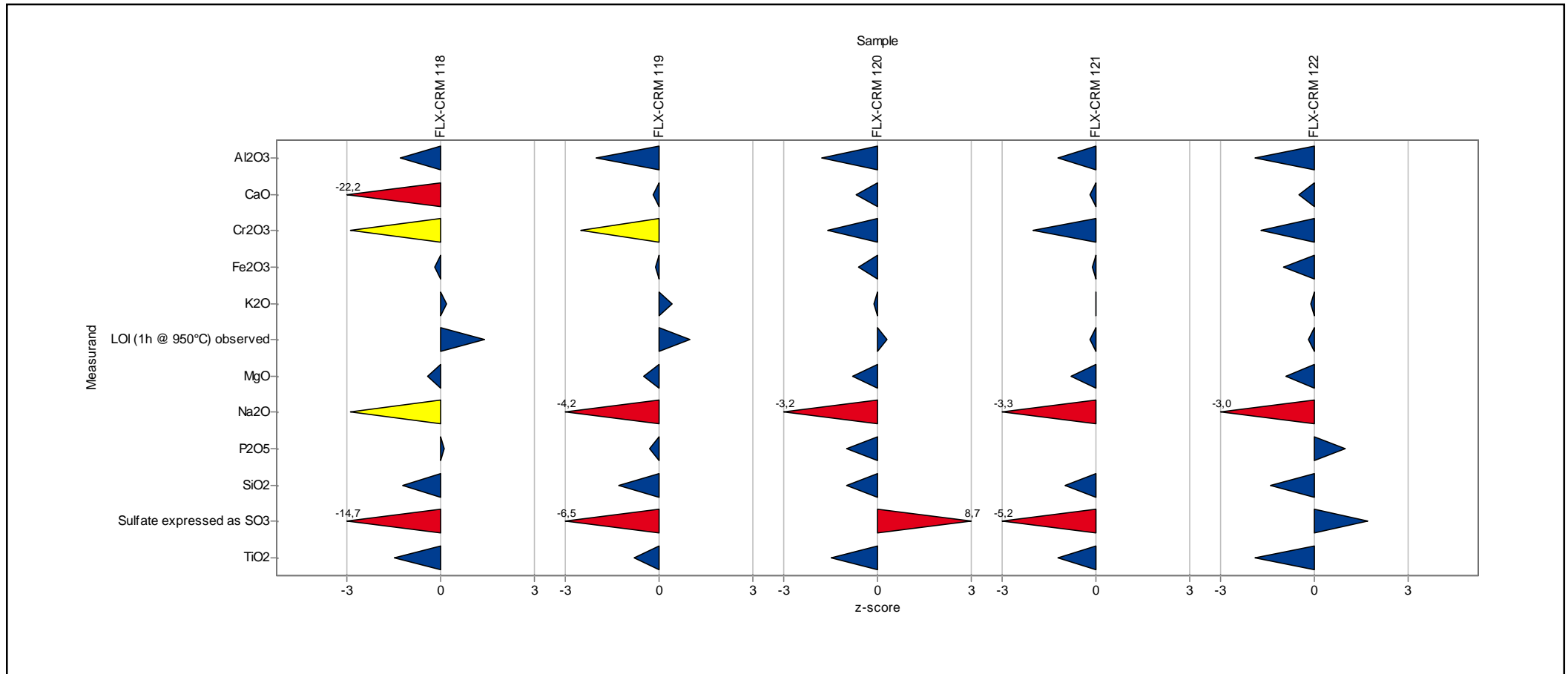
Laboratory: 02



RV118

Laboratory chart of z-scores

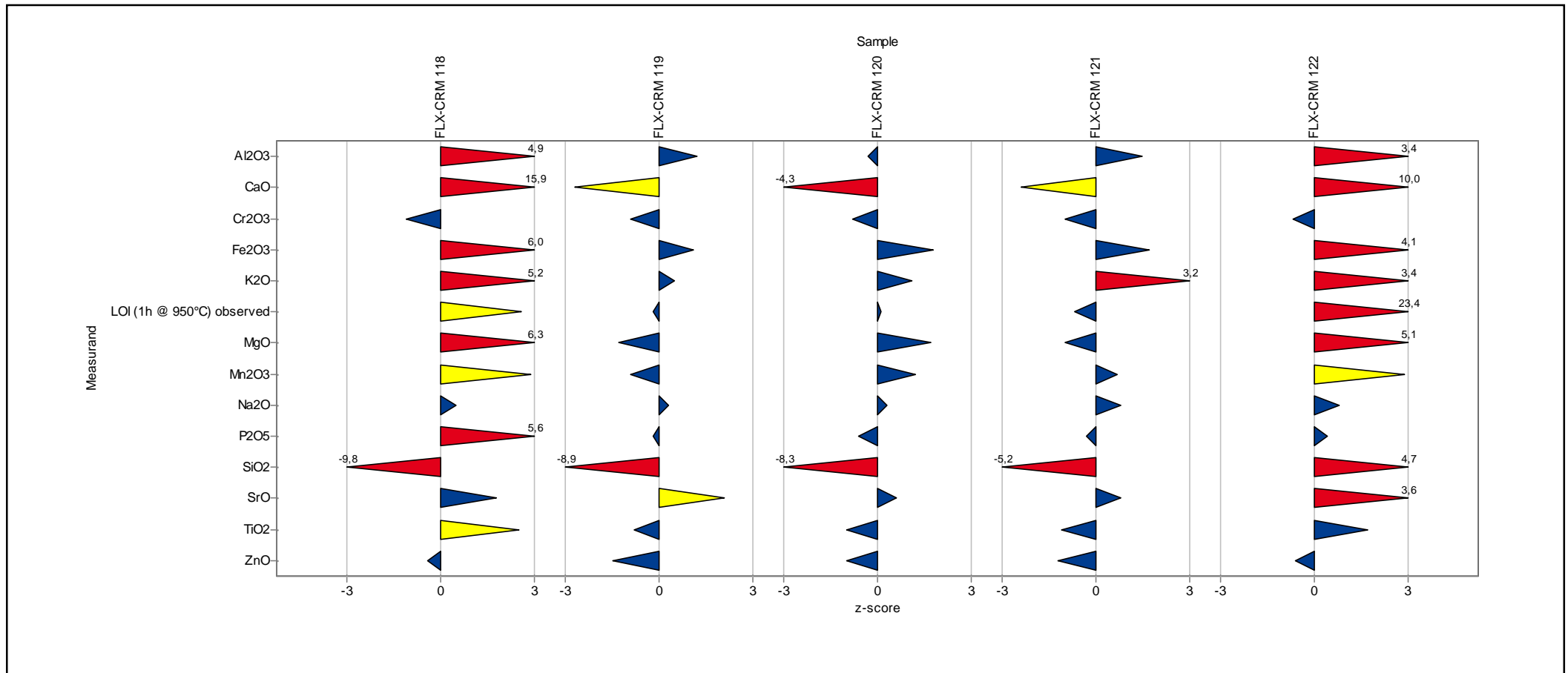
Laboratory: 03



RV118

Laboratory chart of z-scores

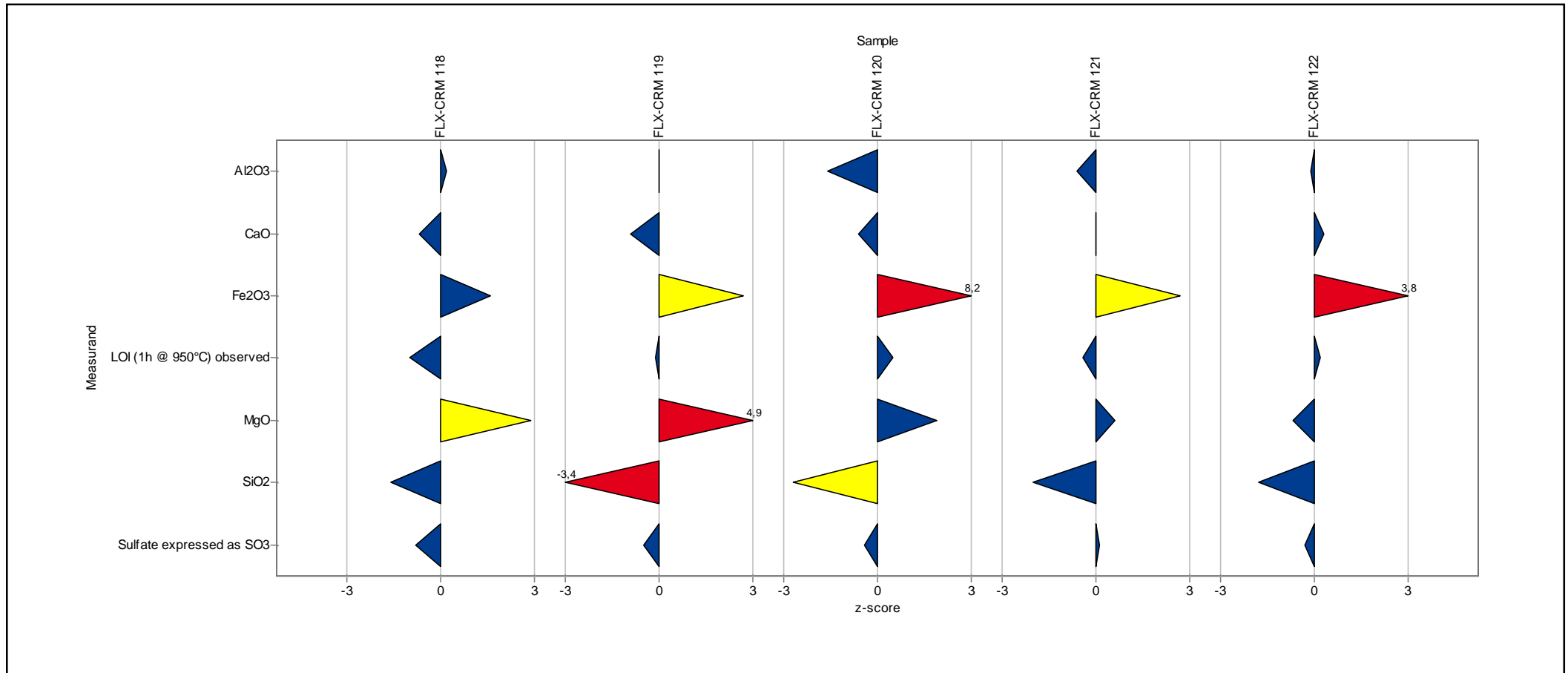
Laboratory: 04



RV118

Laboratory chart of z-scores

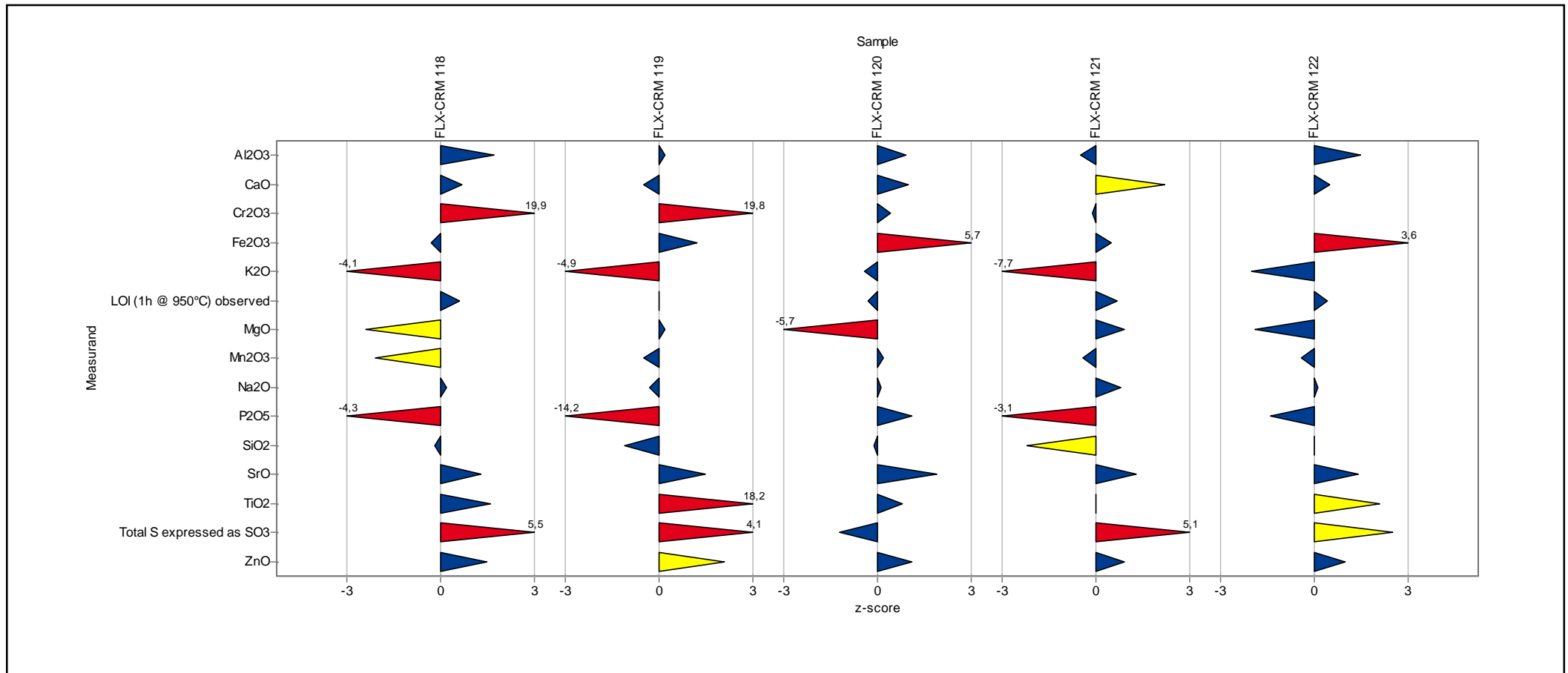
Laboratory: 06



RV118

Laboratory chart of z-scores

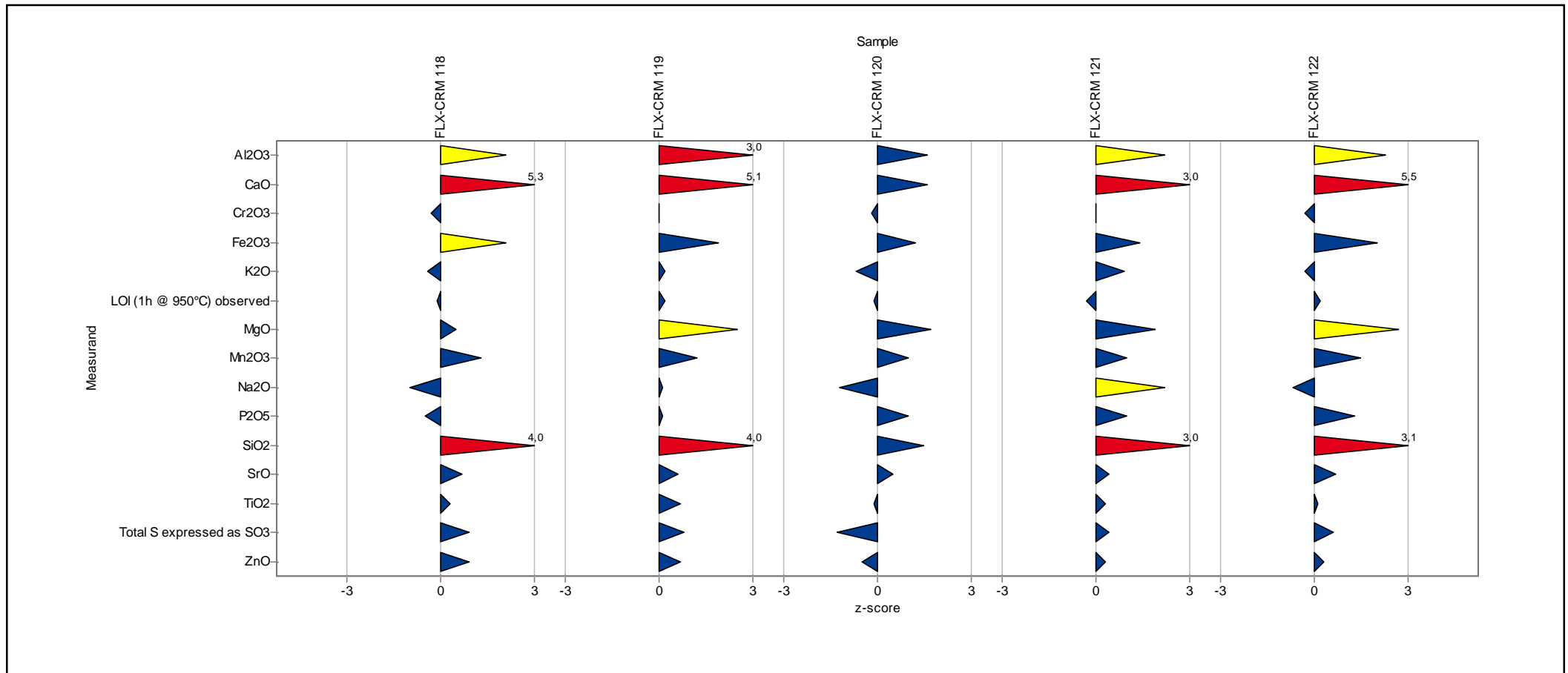
Laboratory: 07



RV118

Laboratory chart of z-scores

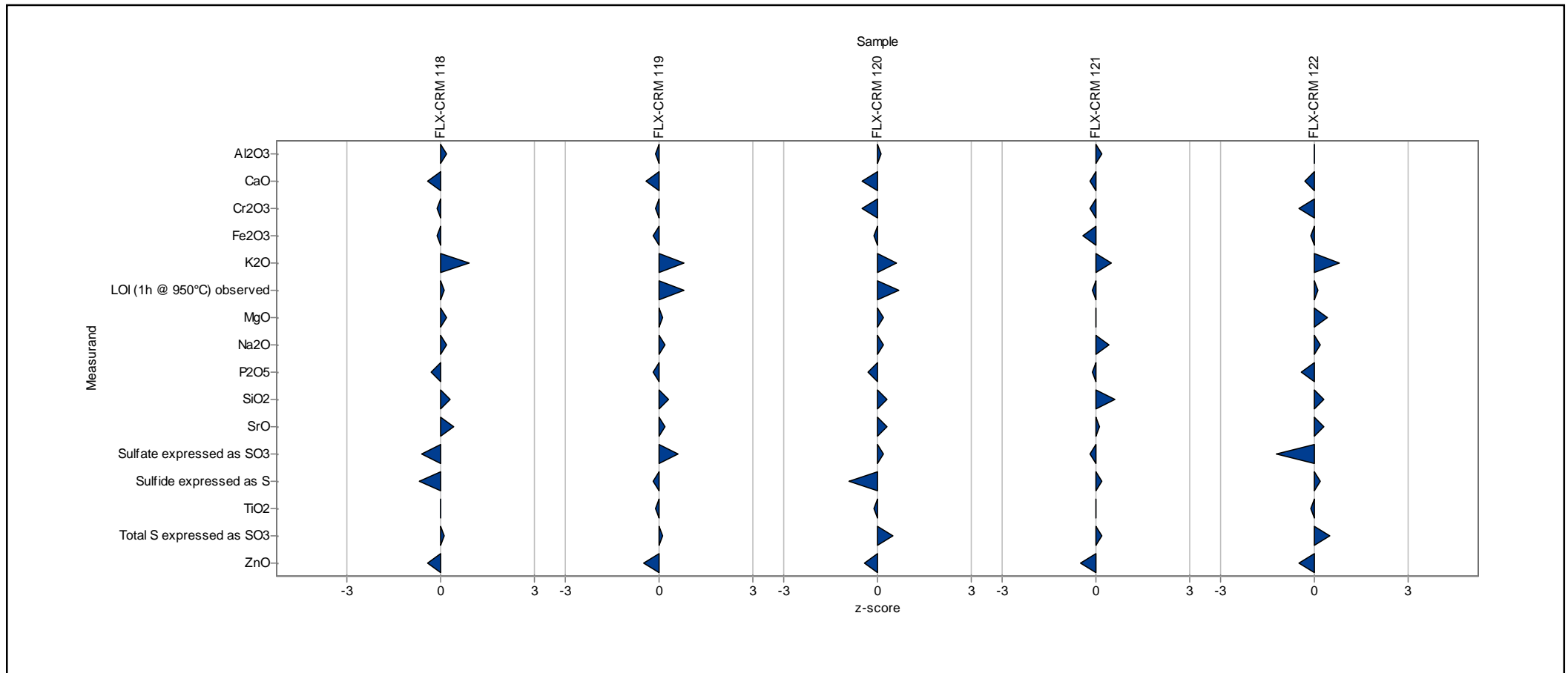
Laboratory: 10



RV118

Laboratory chart of z-scores

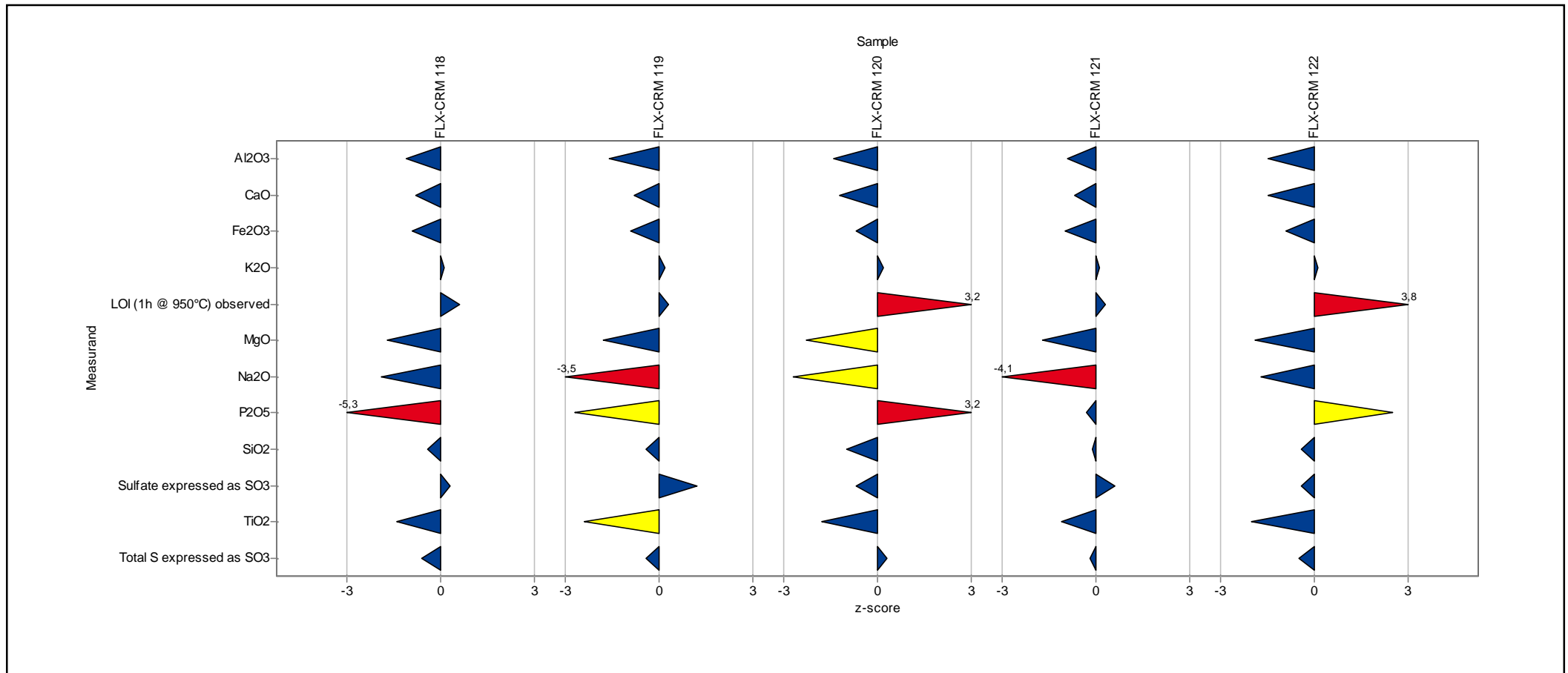
Laboratory: 11



RV118

Laboratory chart of z-scores

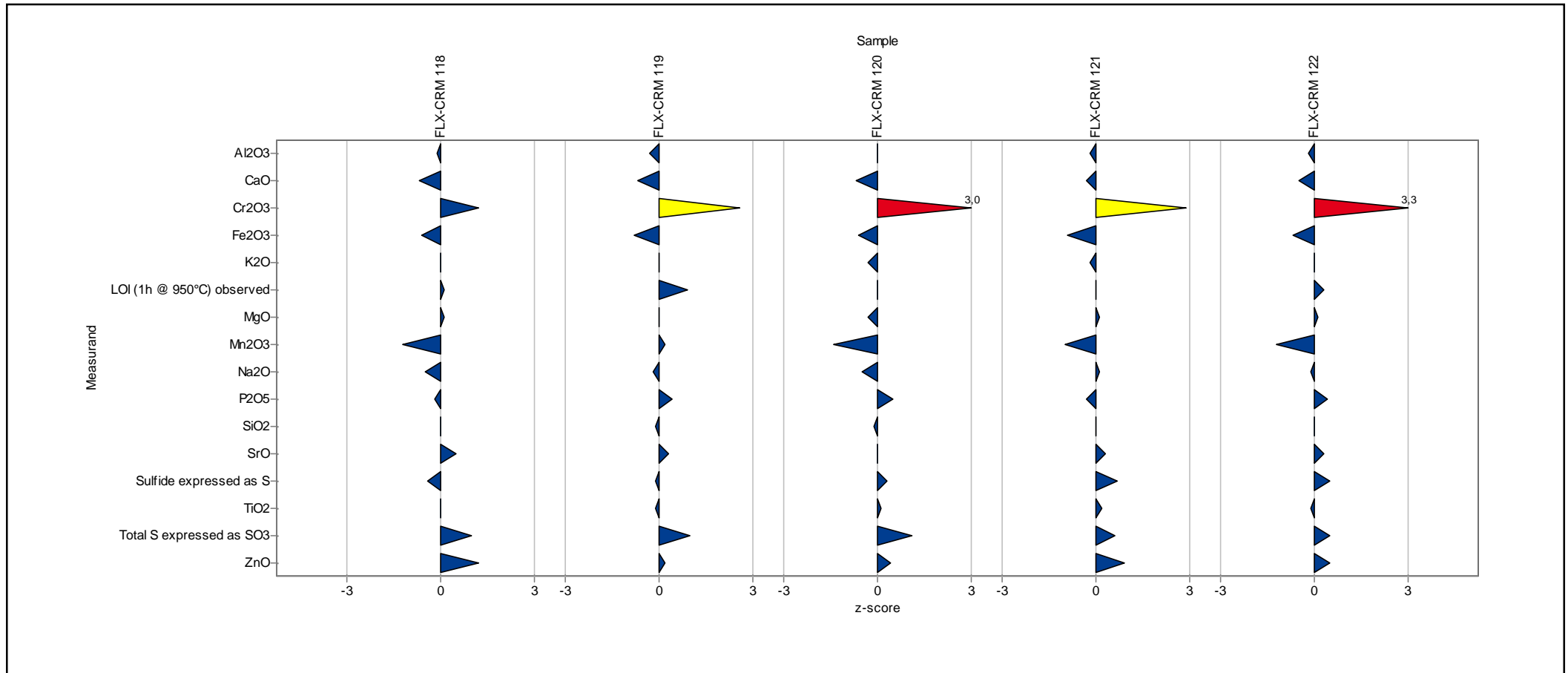
Laboratory: 14



RV118

Laboratory chart of z-scores

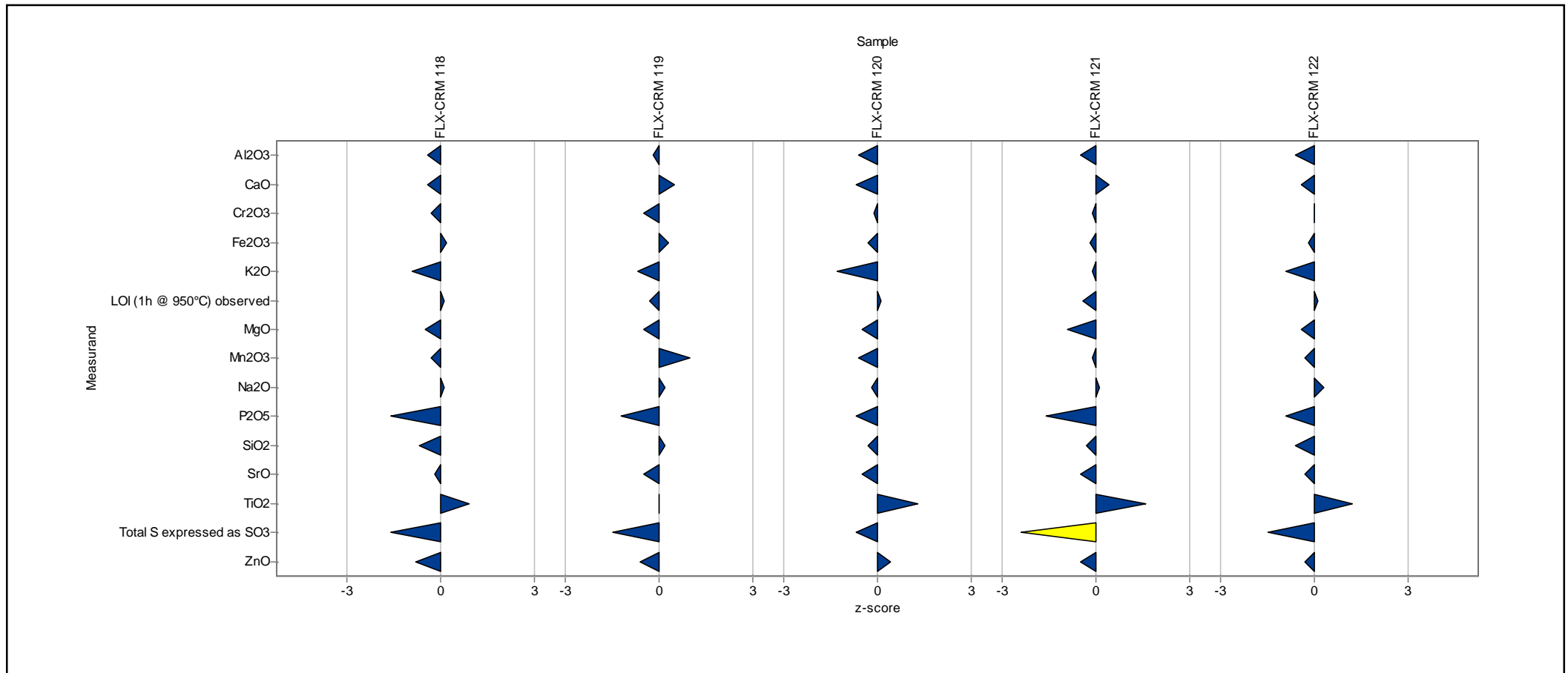
Laboratory: 15



RV118

Laboratory chart of z-scores

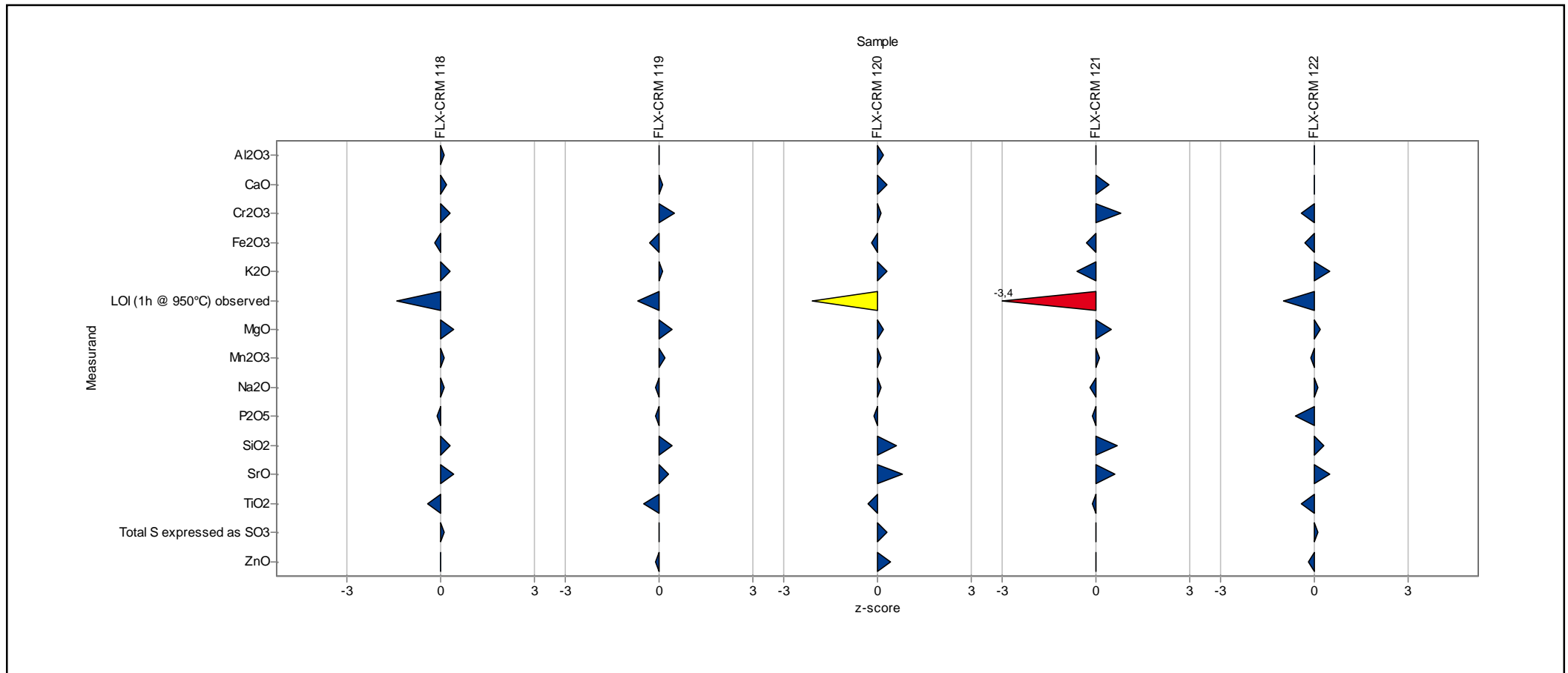
Laboratory: 17



RV118

Laboratory chart of z-scores

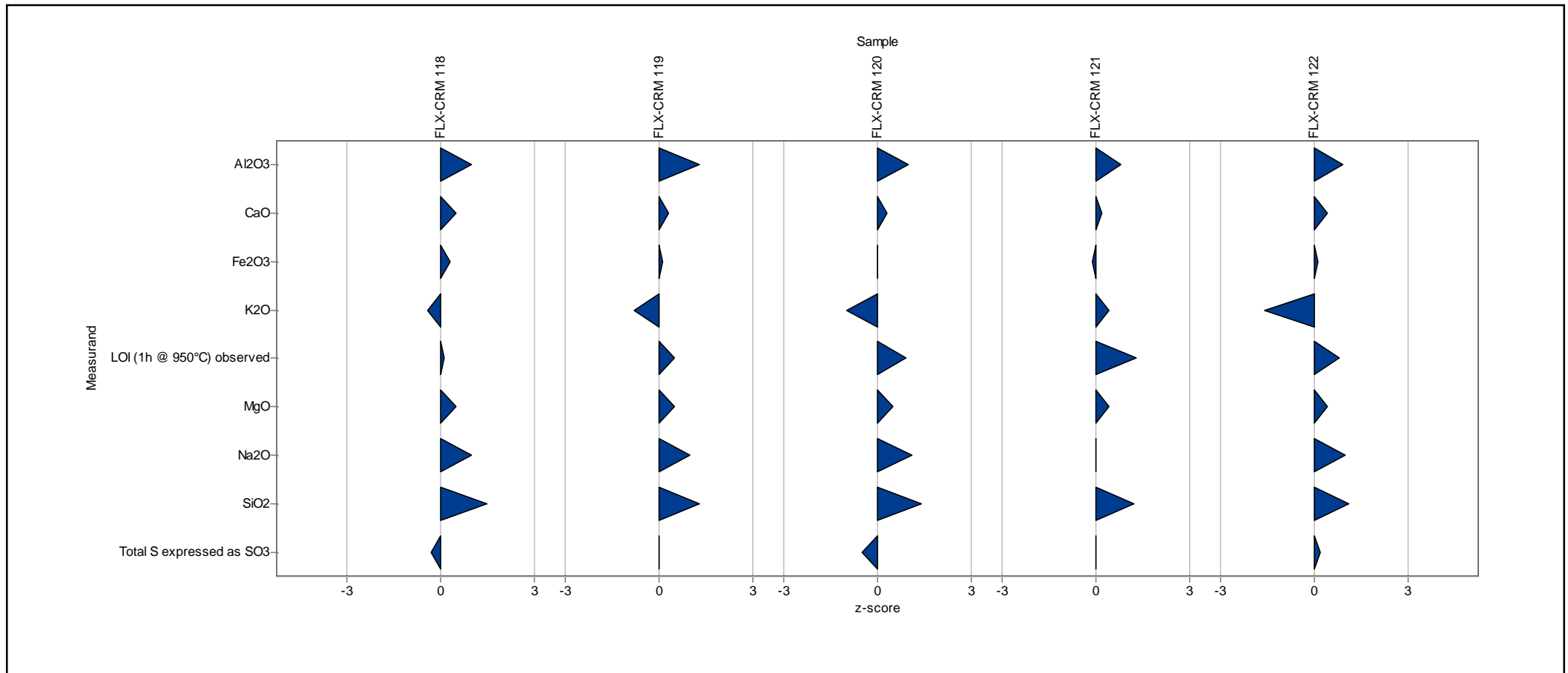
Laboratory: 18



RV118

Laboratory chart of z-scores

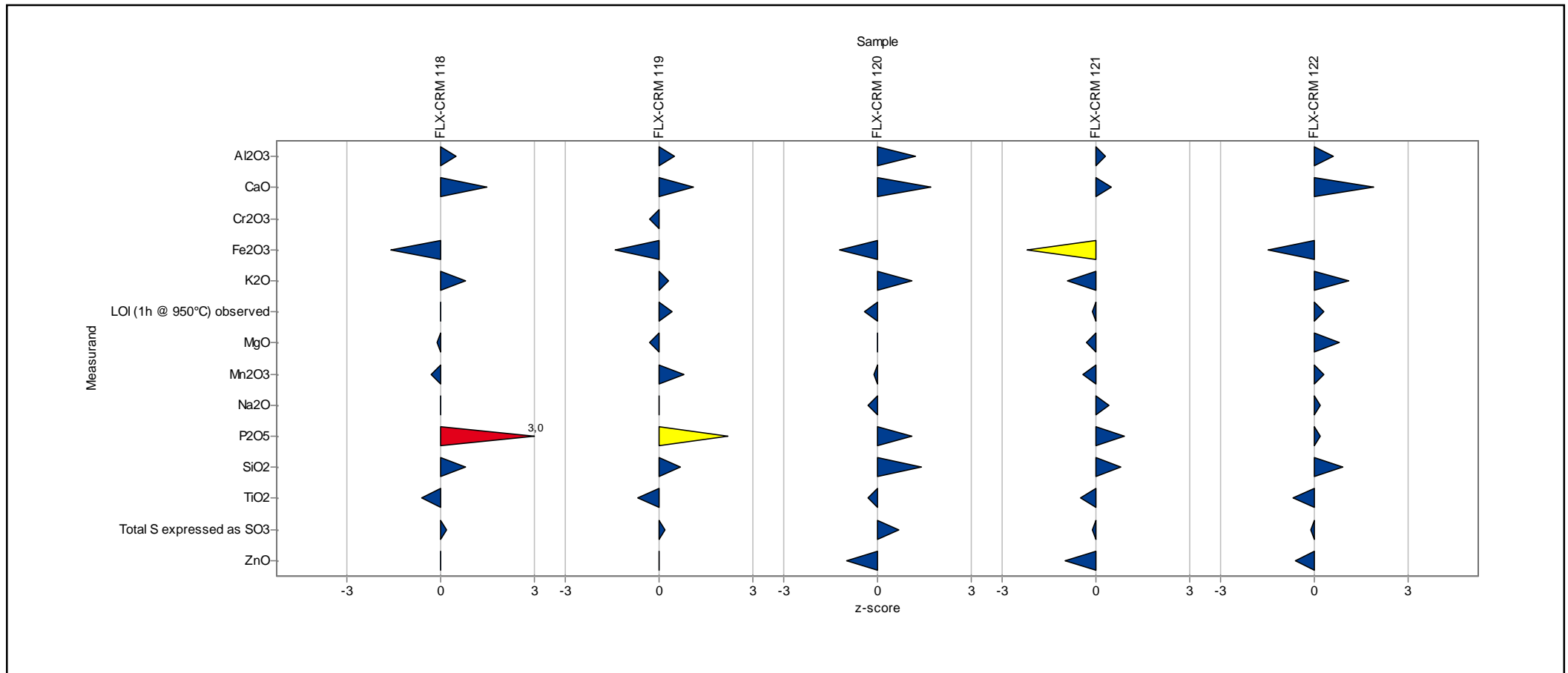
Laboratory: 19



RV118

Laboratory chart of z-scores

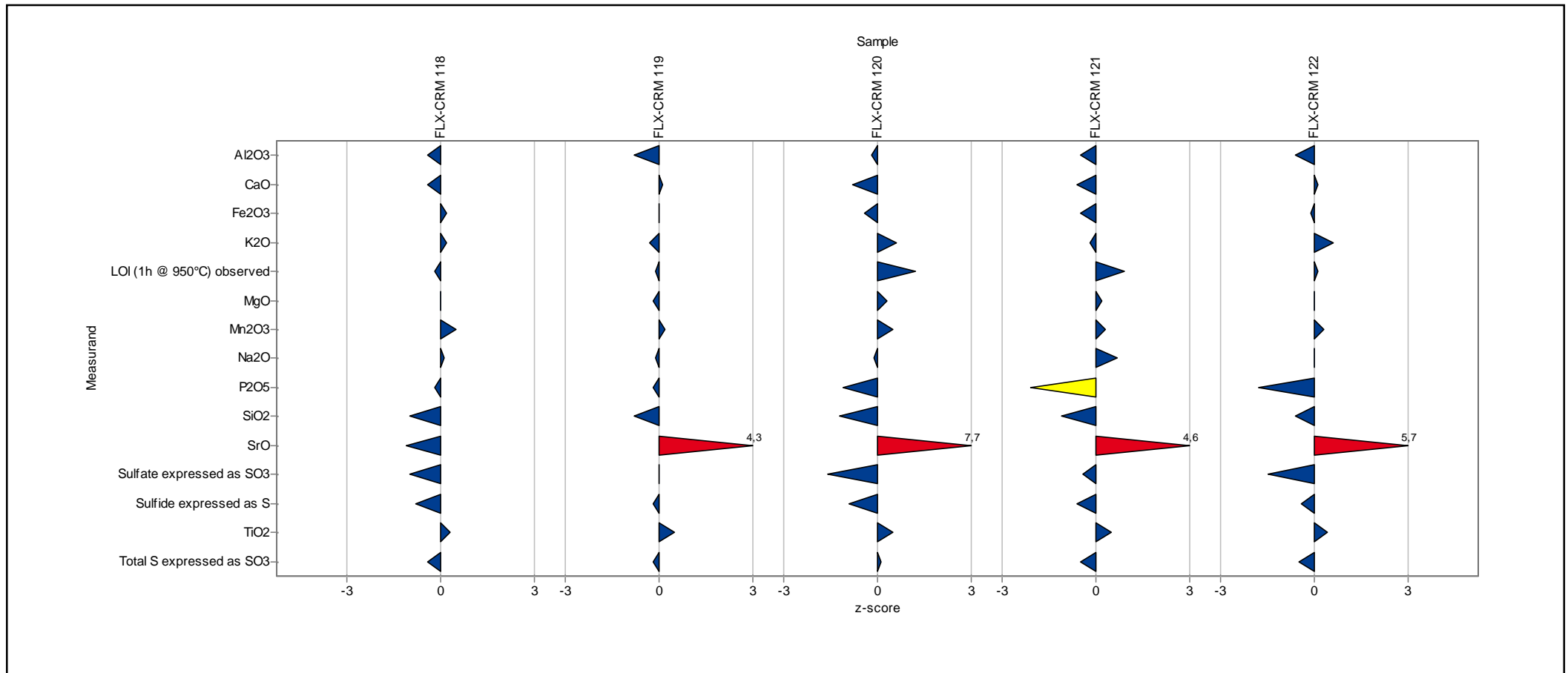
Laboratory: 20



RV118

Laboratory chart of z-scores

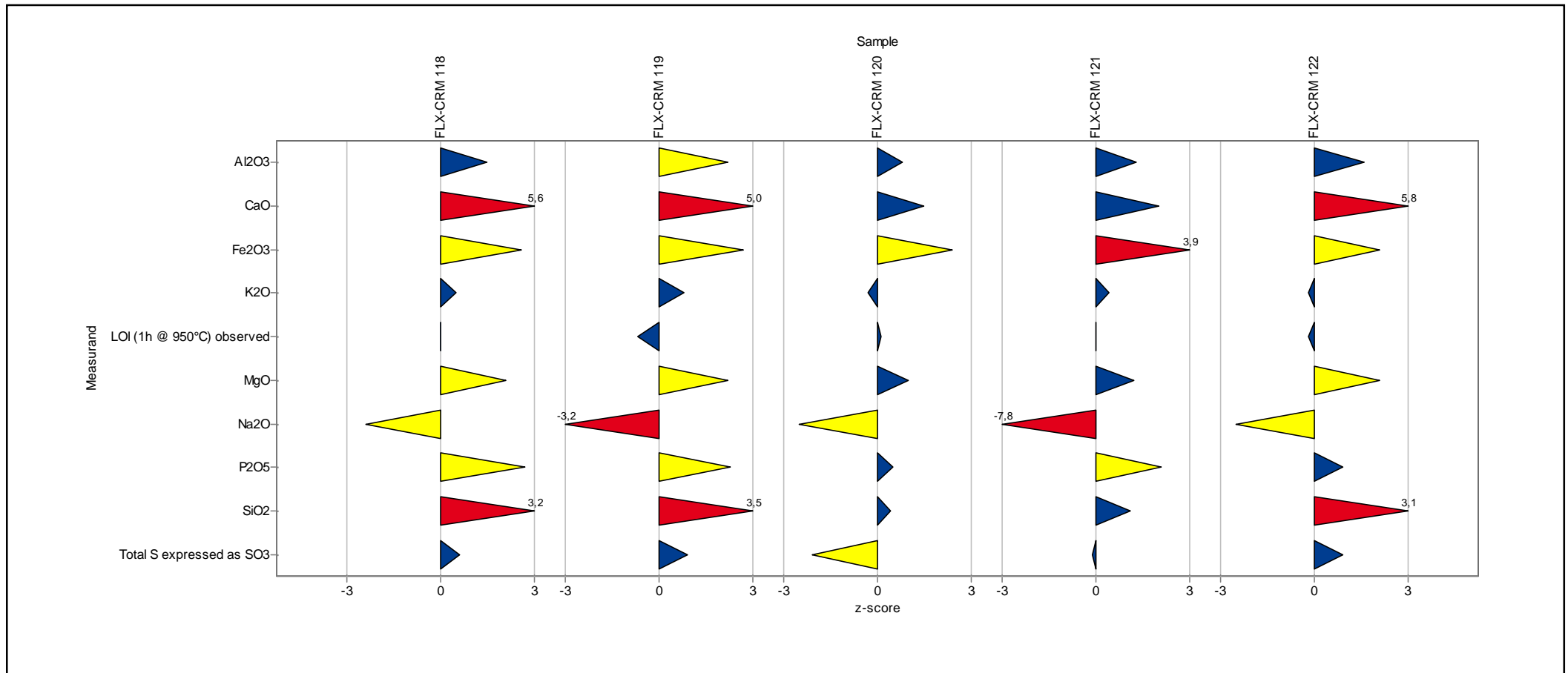
Laboratory: 21



RV118

Laboratory chart of z-scores

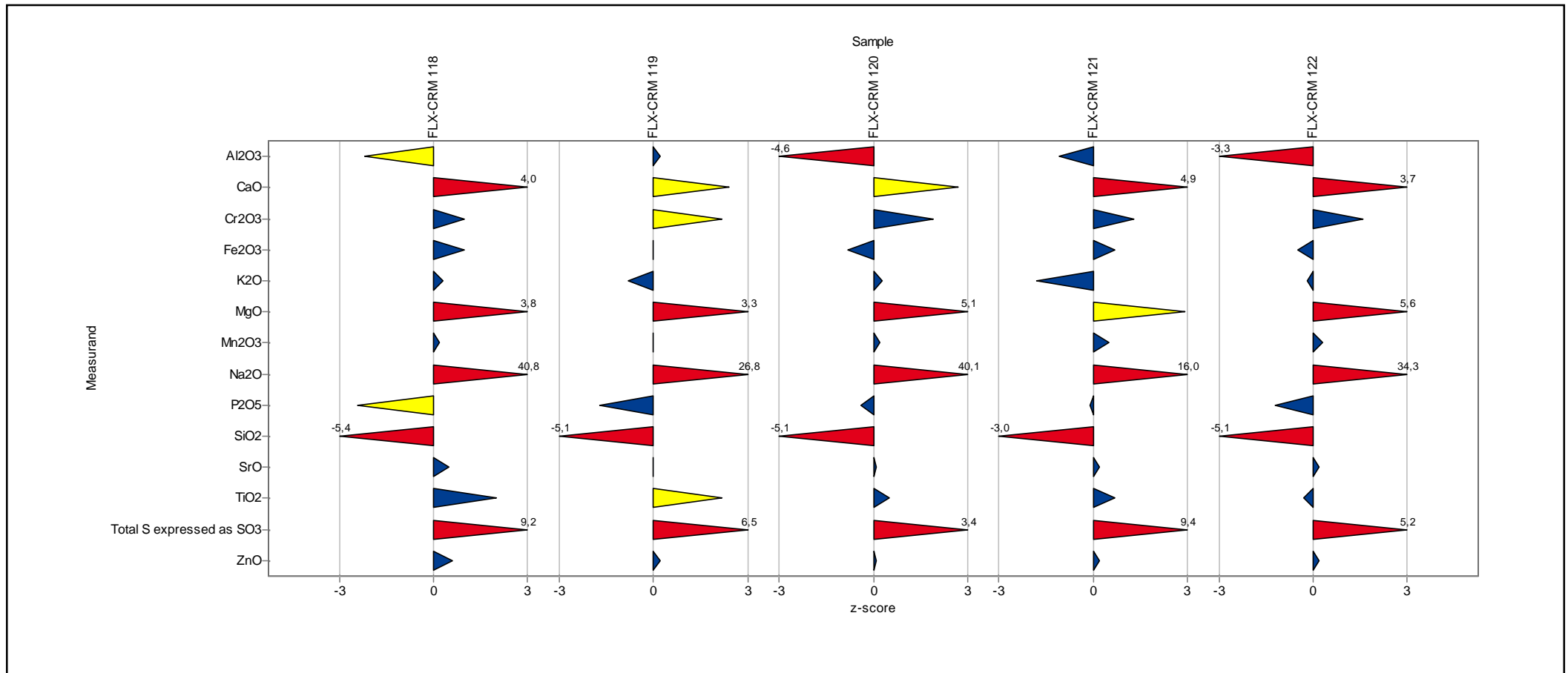
Laboratory: 22



RV118

Laboratory chart of z-scores

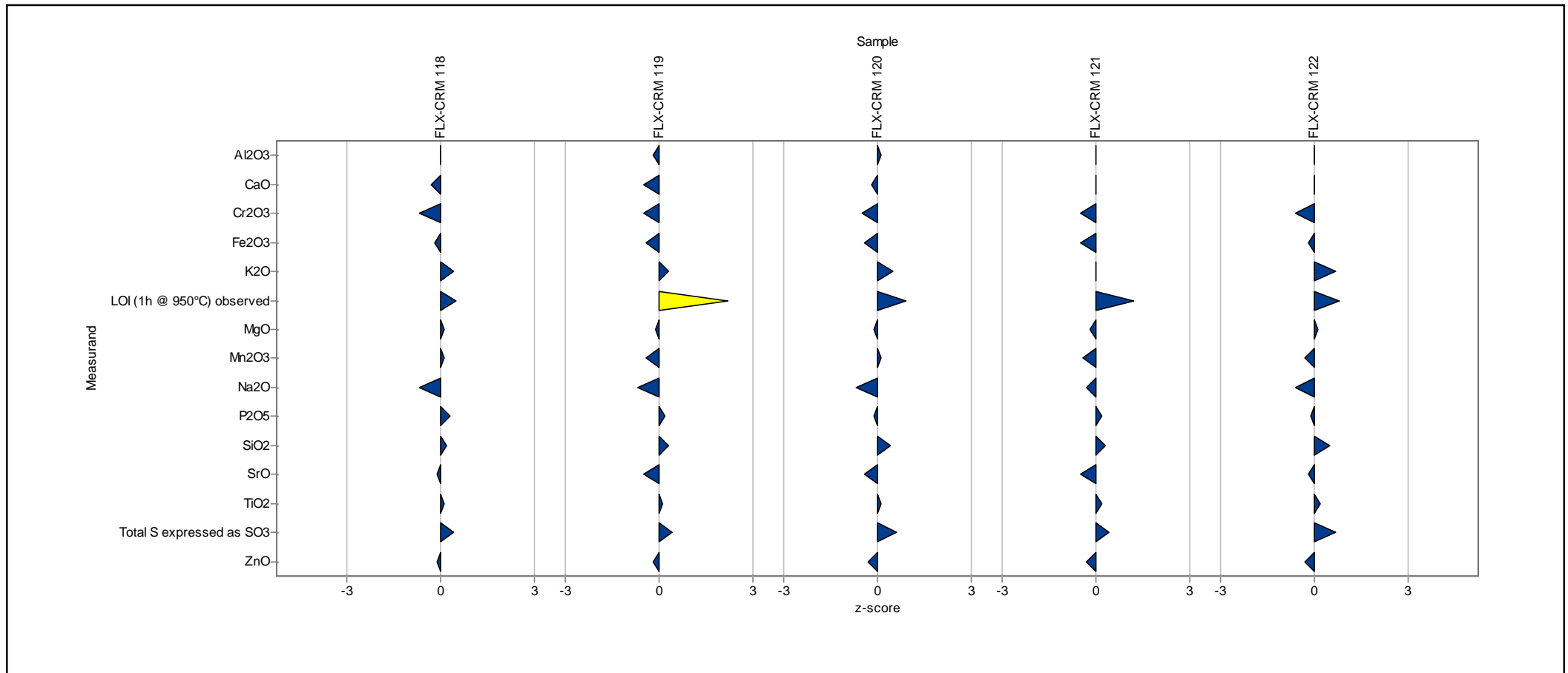
Laboratory: 23



RV118

Laboratory chart of z-scores

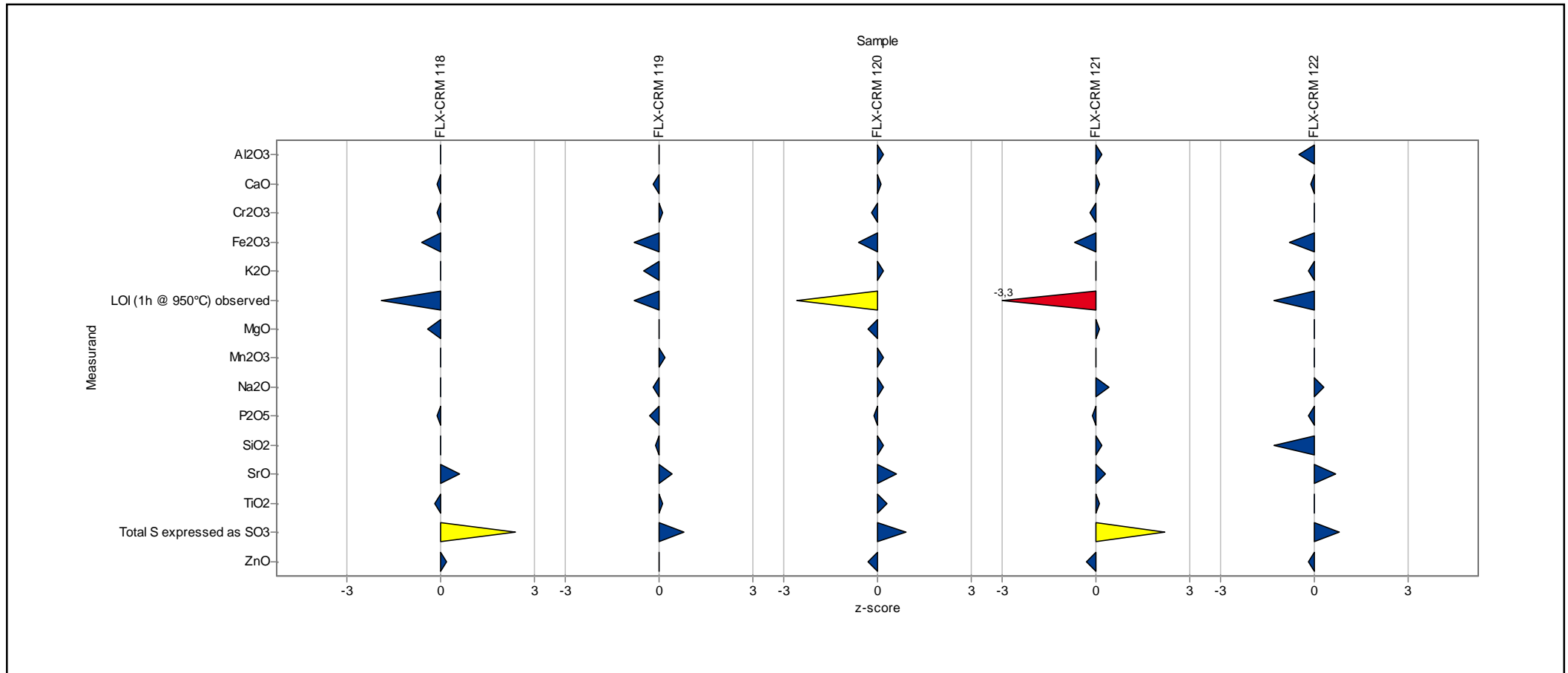
Laboratory: 24



RV118

Laboratory chart of z-scores

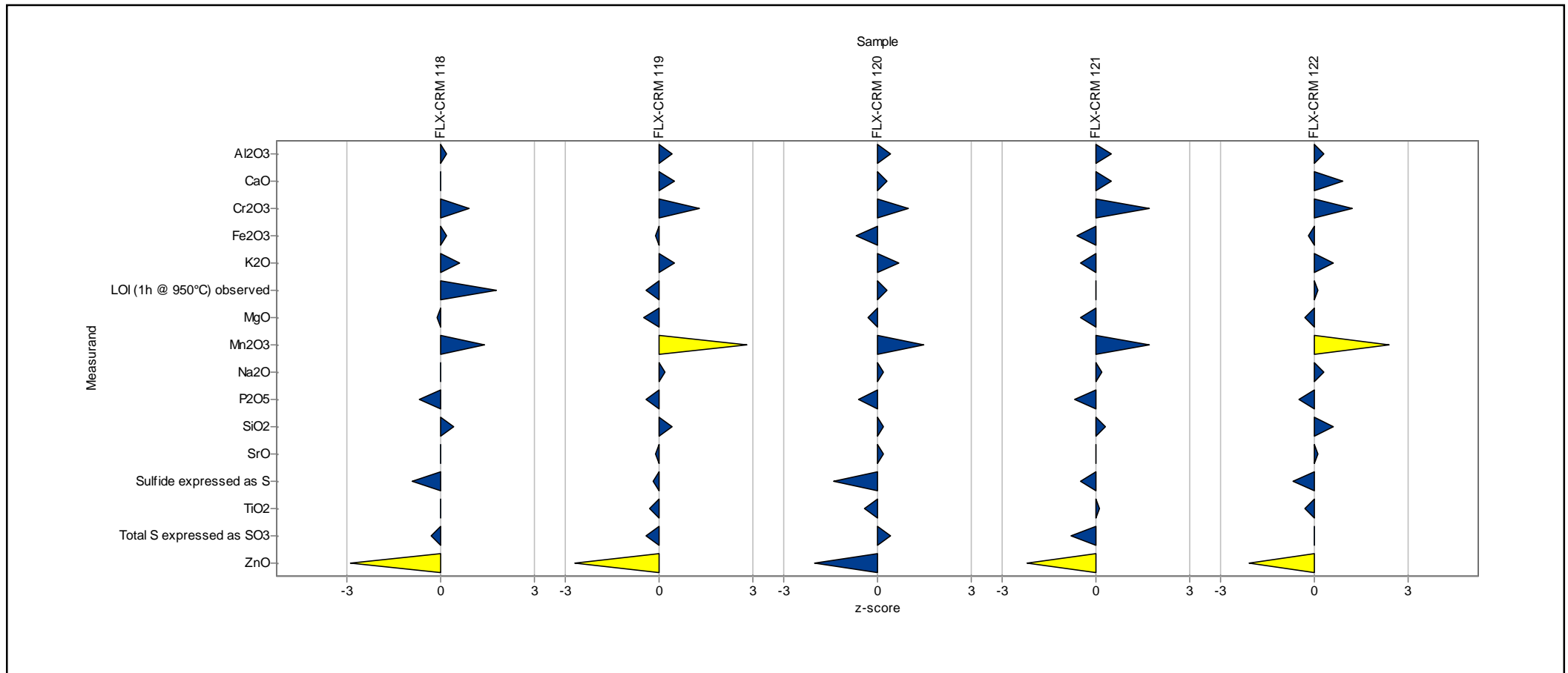
Laboratory: 25



RV118

Laboratory chart of z-scores

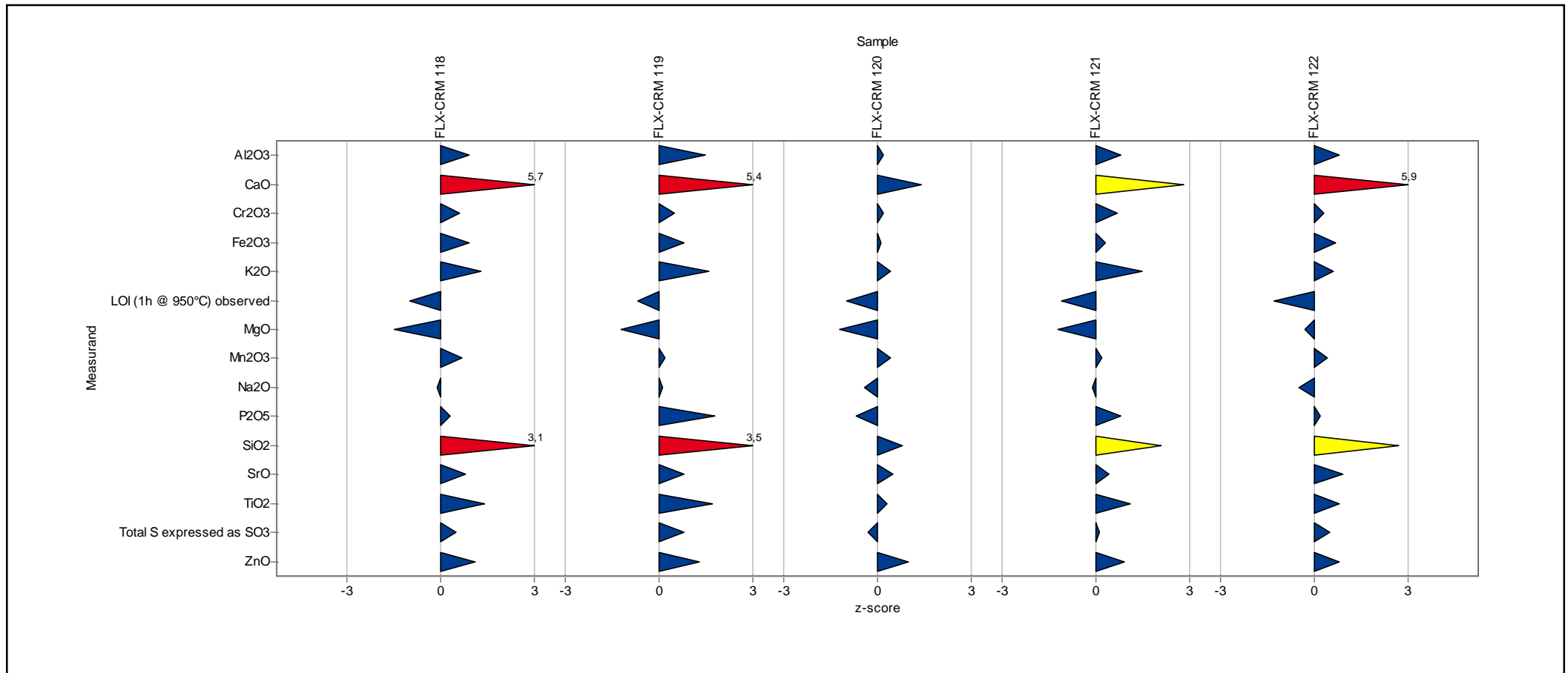
Laboratory: 26



RV118

Laboratory chart of z-scores

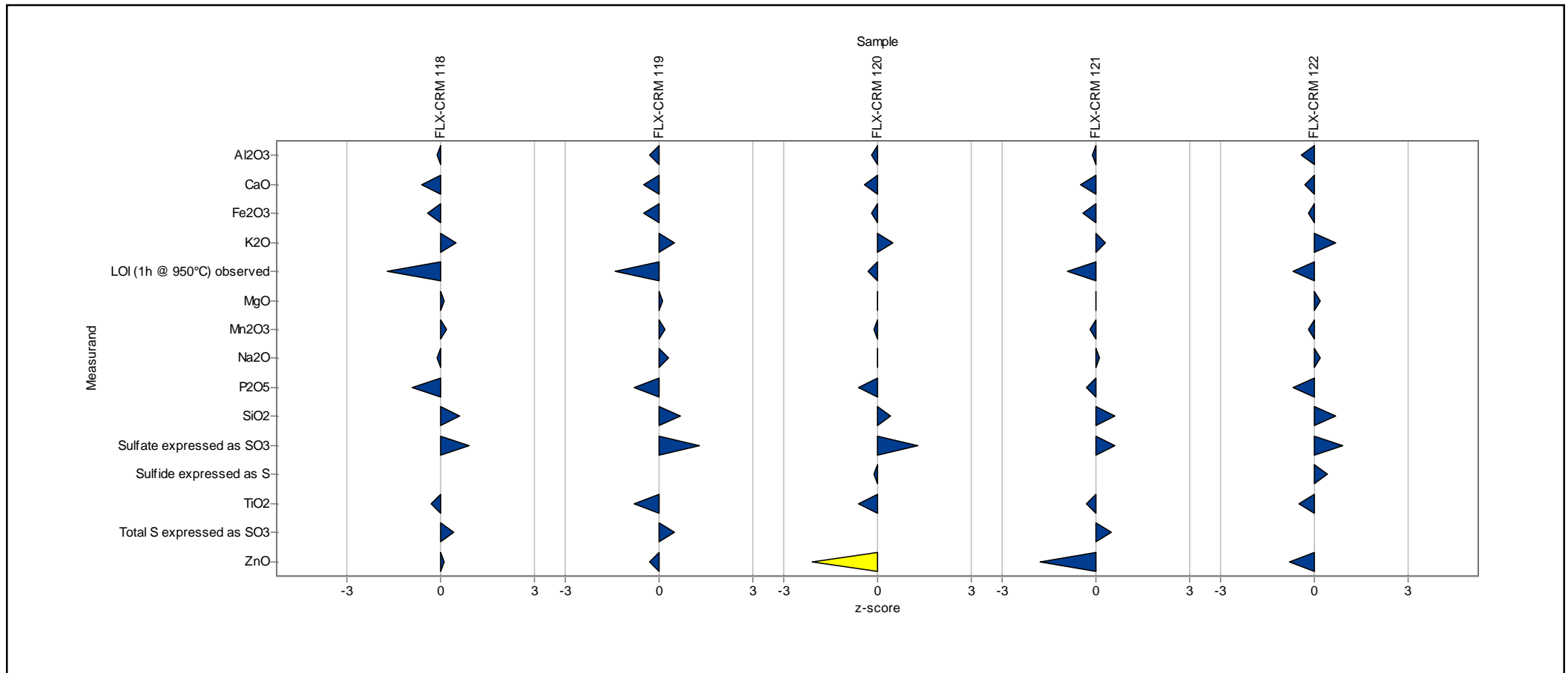
Laboratory: 28



RV118

Laboratory chart of z-scores

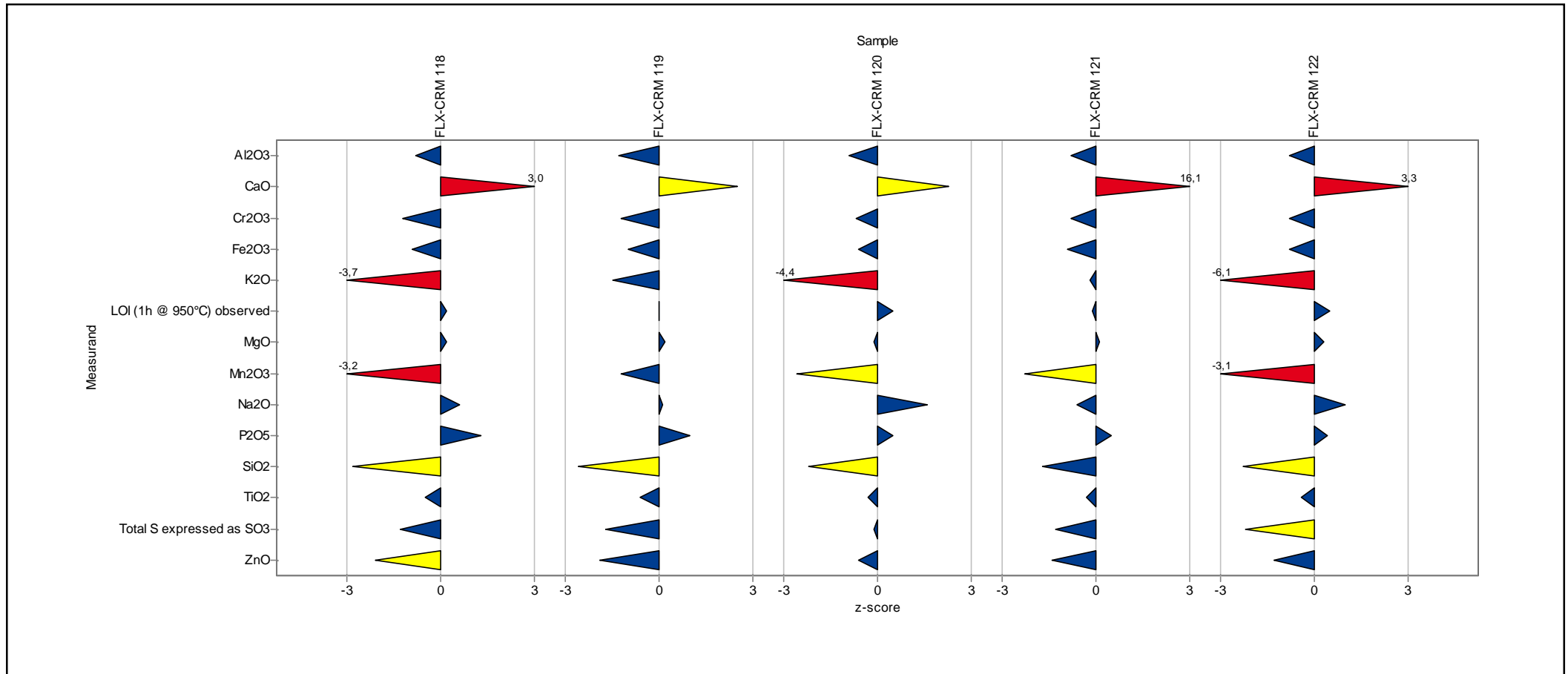
Laboratory: 29



RV118

Laboratory chart of z-scores

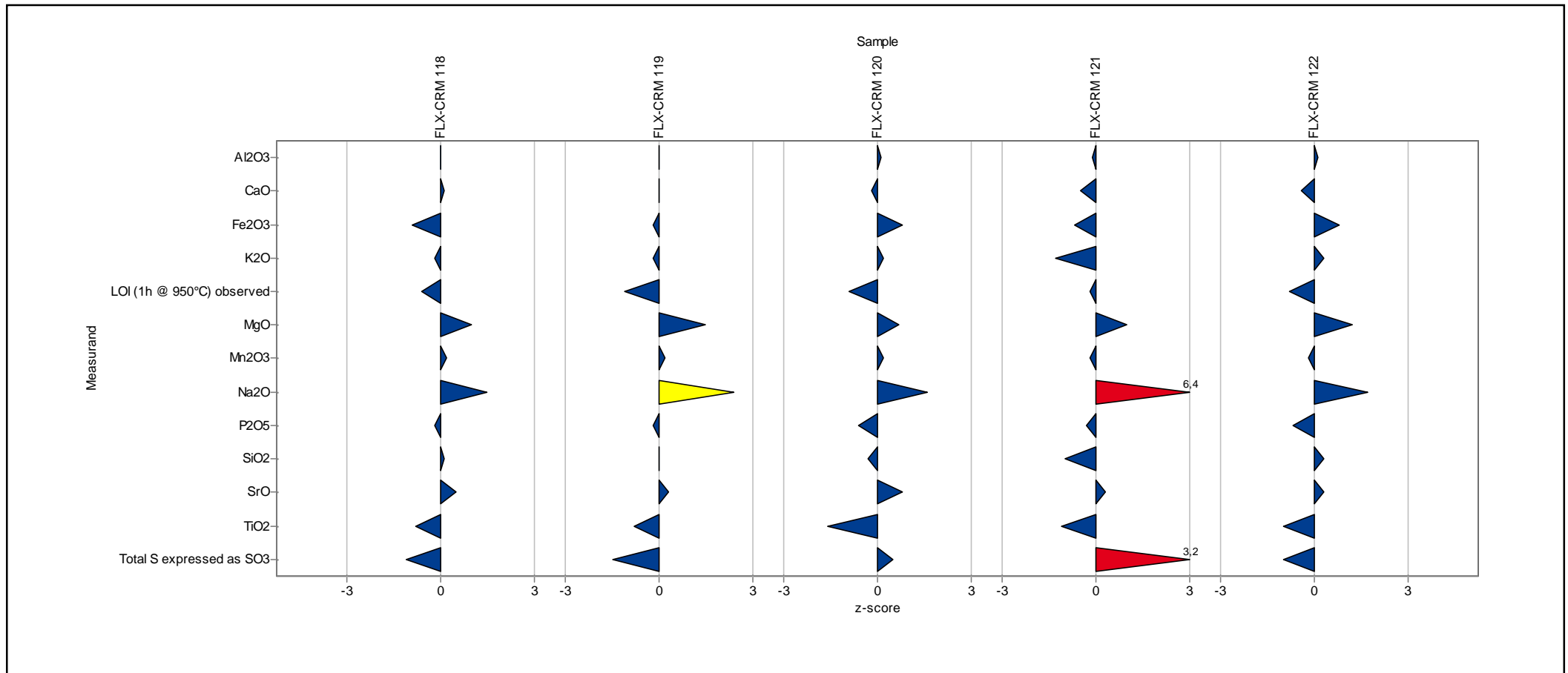
Laboratory: 31



RV118

Laboratory chart of z-scores

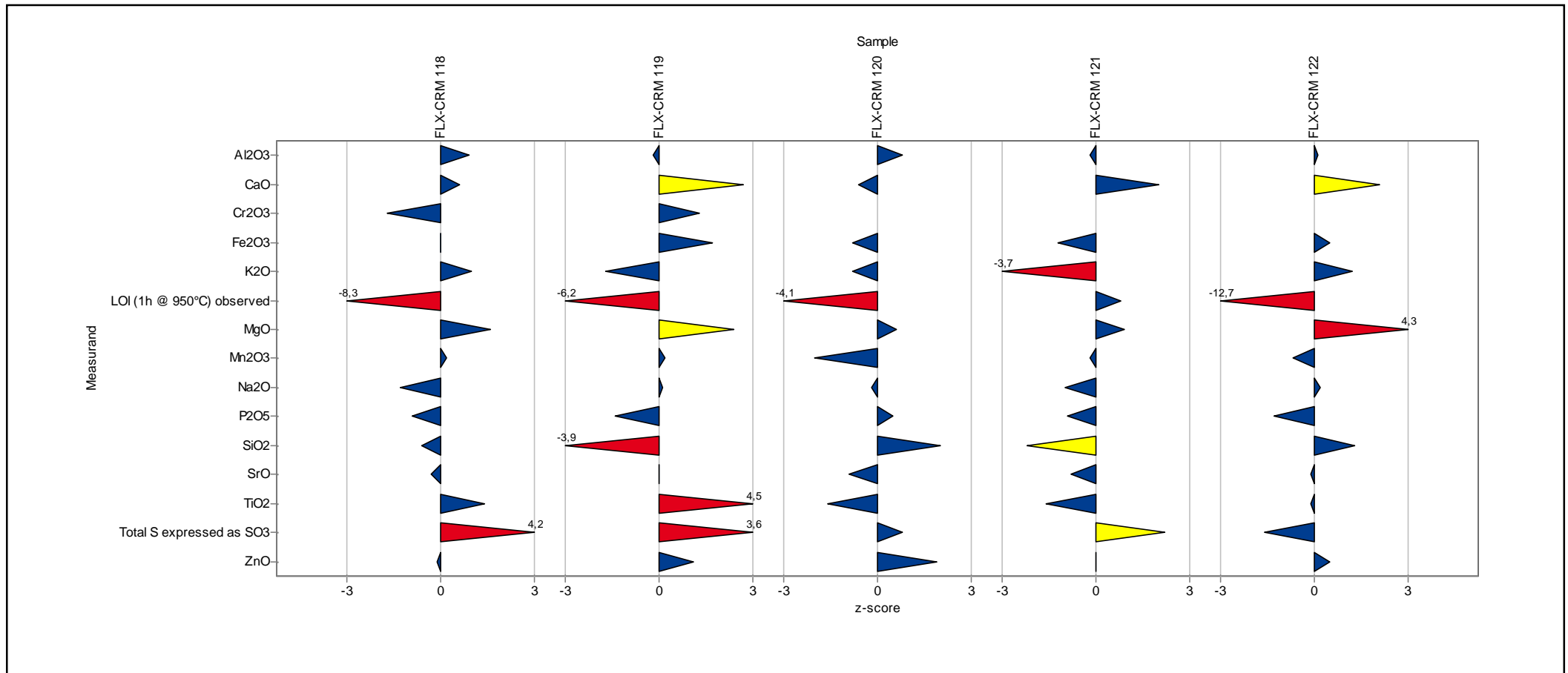
Laboratory: 32



RV118

Laboratory chart of z-scores

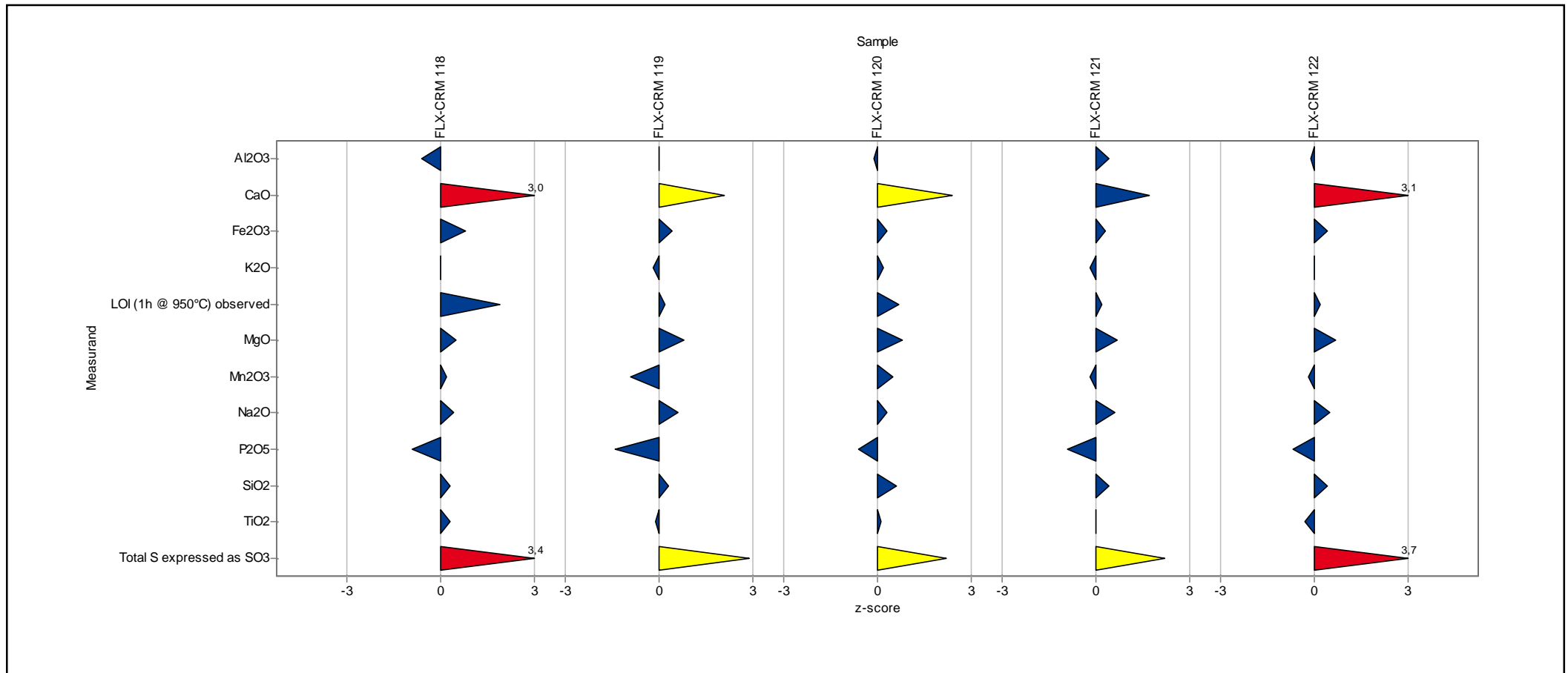
Laboratory: 33



RV118

Laboratory chart of z-scores

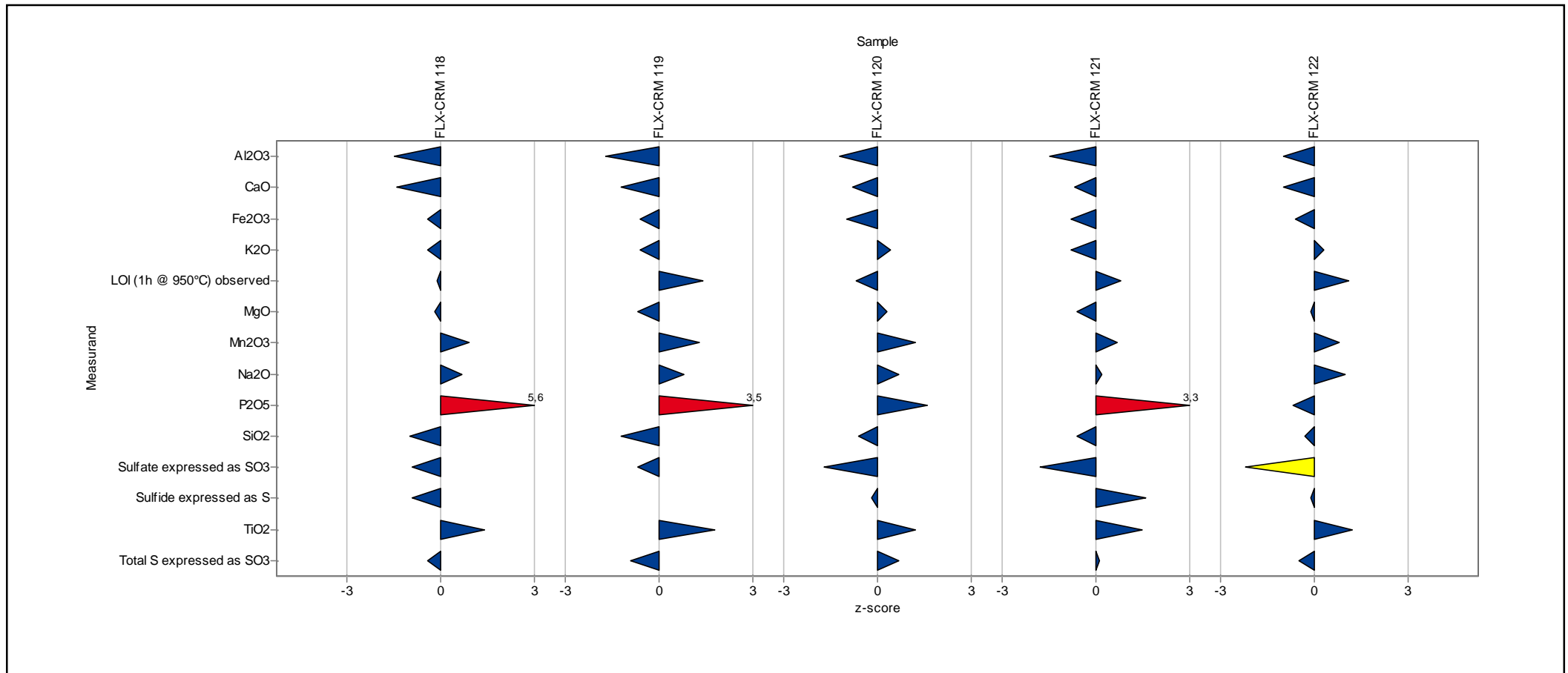
Laboratory: 34



RV118

Laboratory chart of z-scores

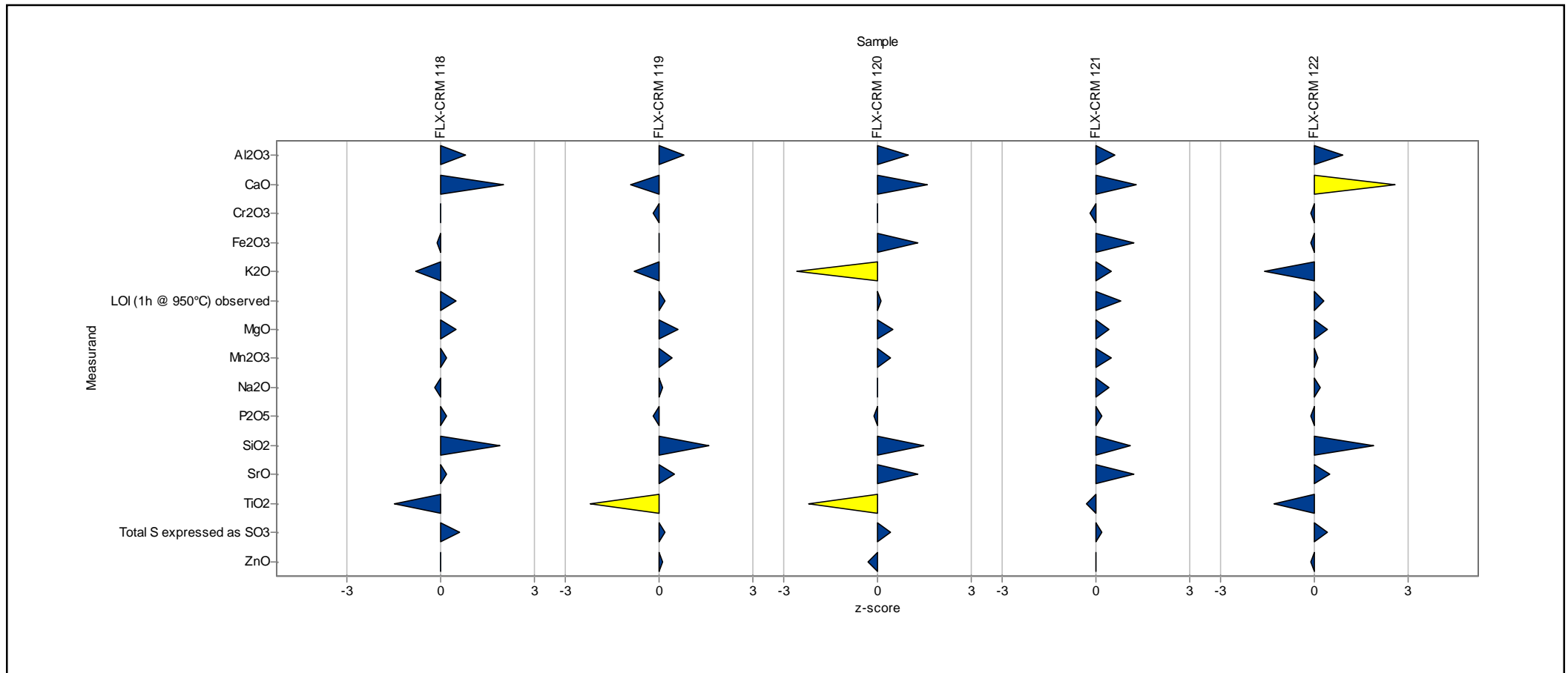
Laboratory: 36



RV118

Laboratory chart of z-scores

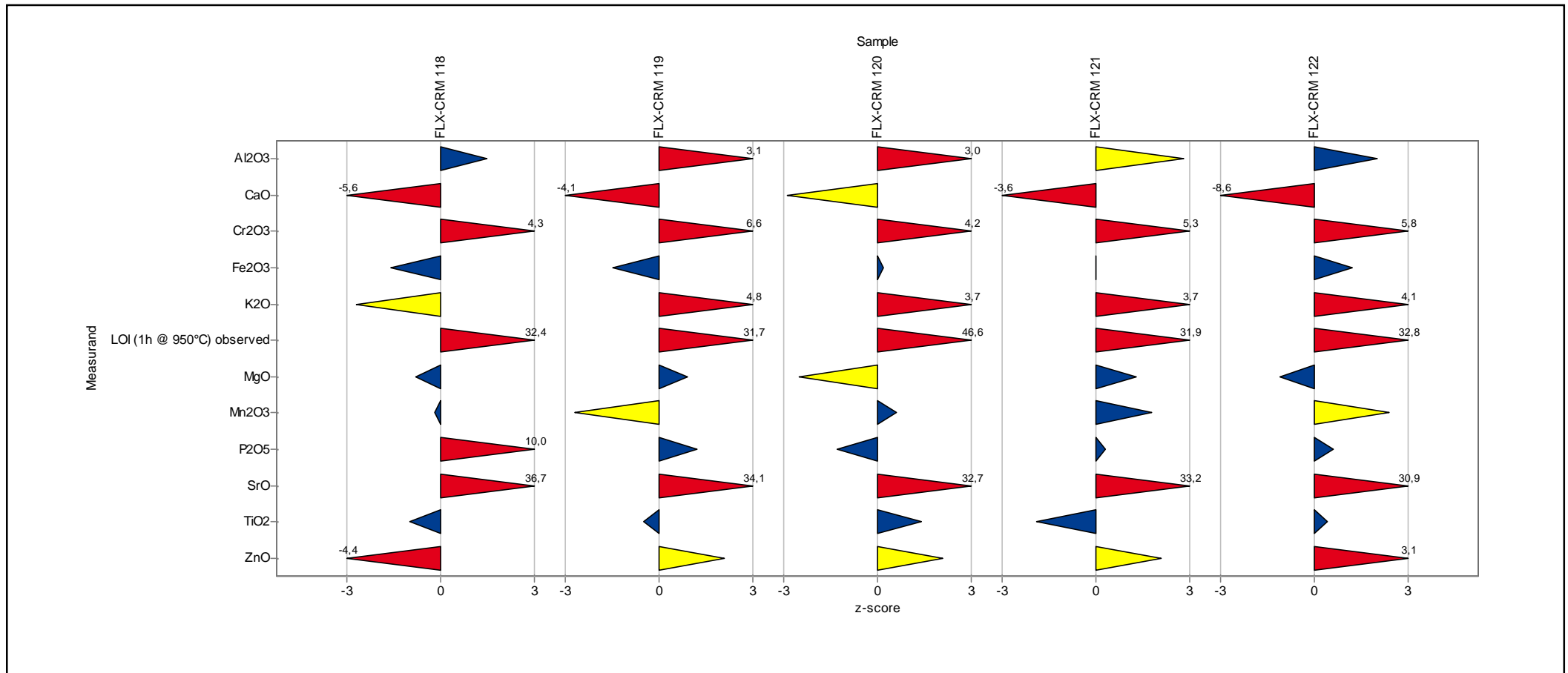
Laboratory: 37



RV118

Laboratory chart of z-scores

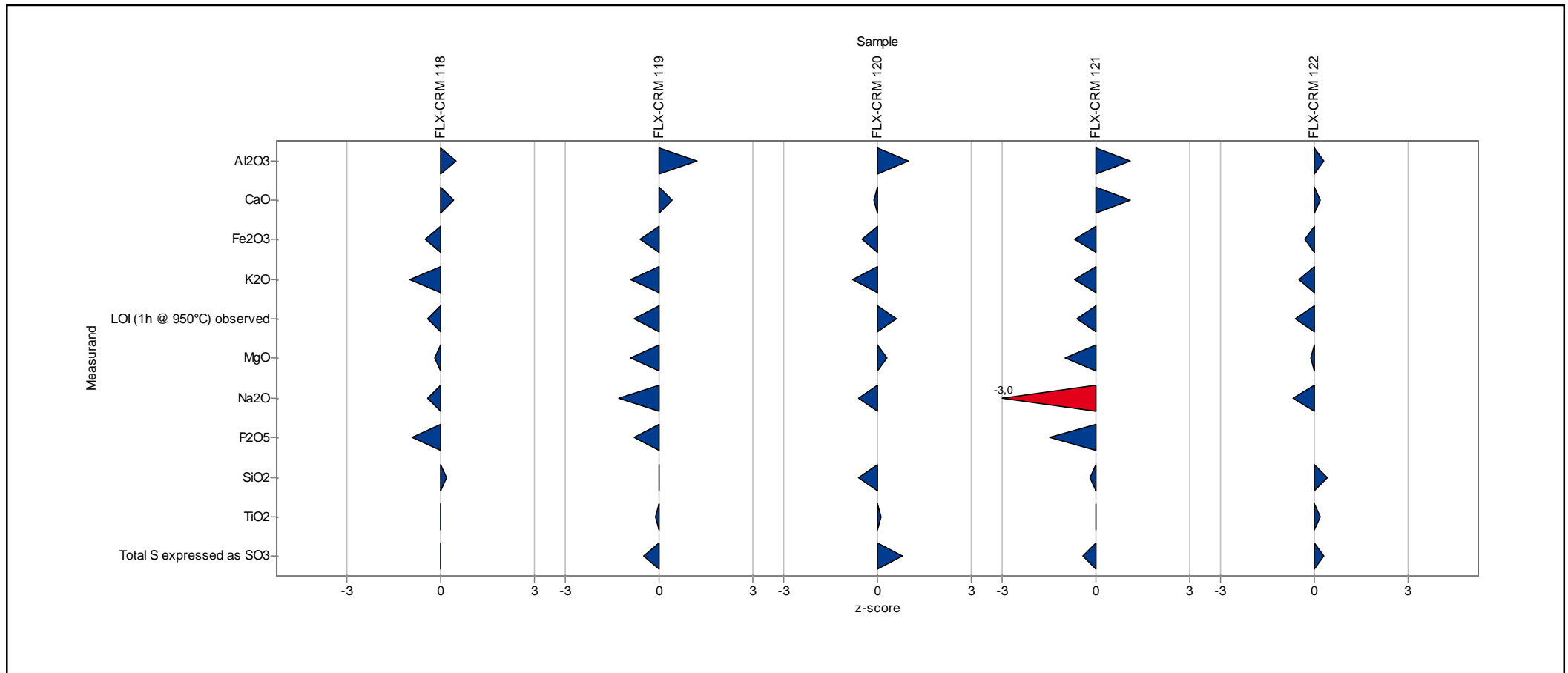
Laboratory: 38



RV118

Laboratory chart of z-scores

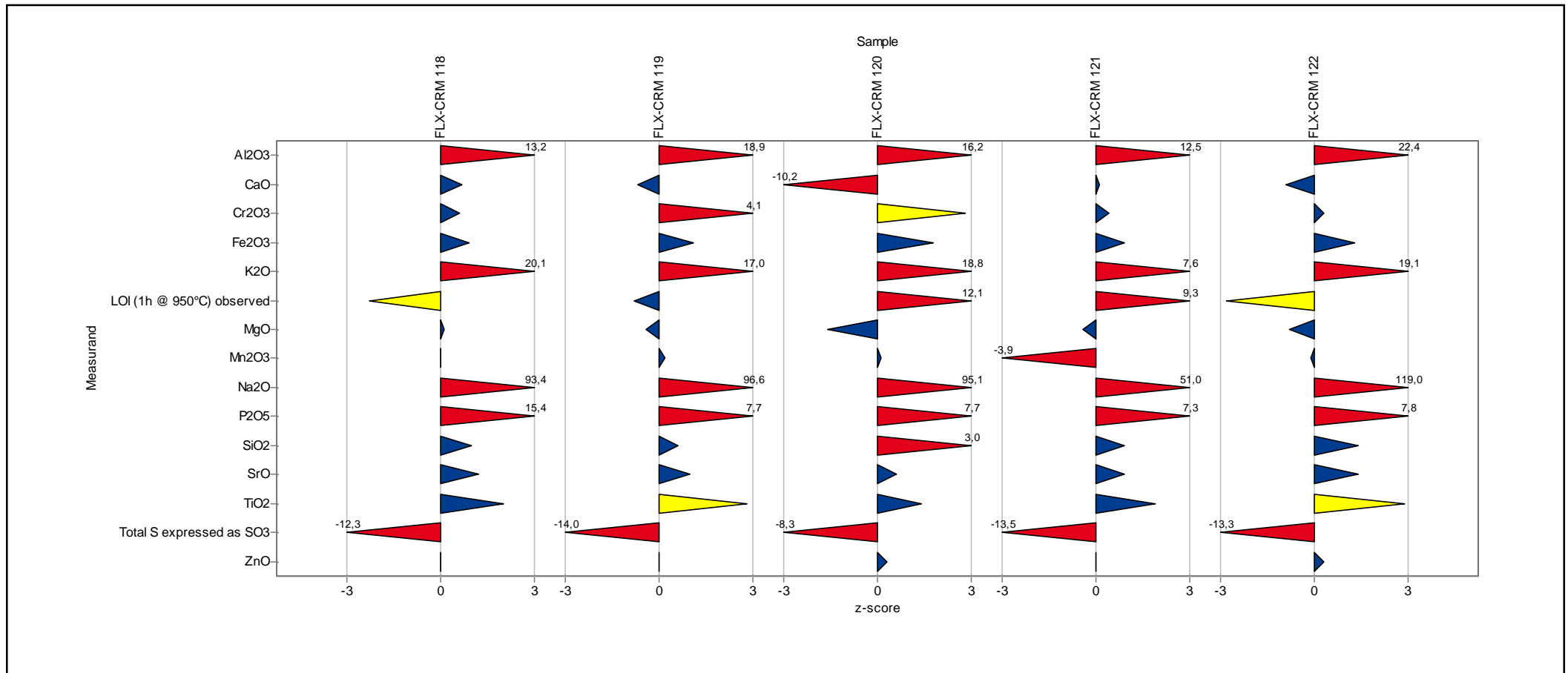
Laboratory: 40



RV118

Laboratory chart of z-scores

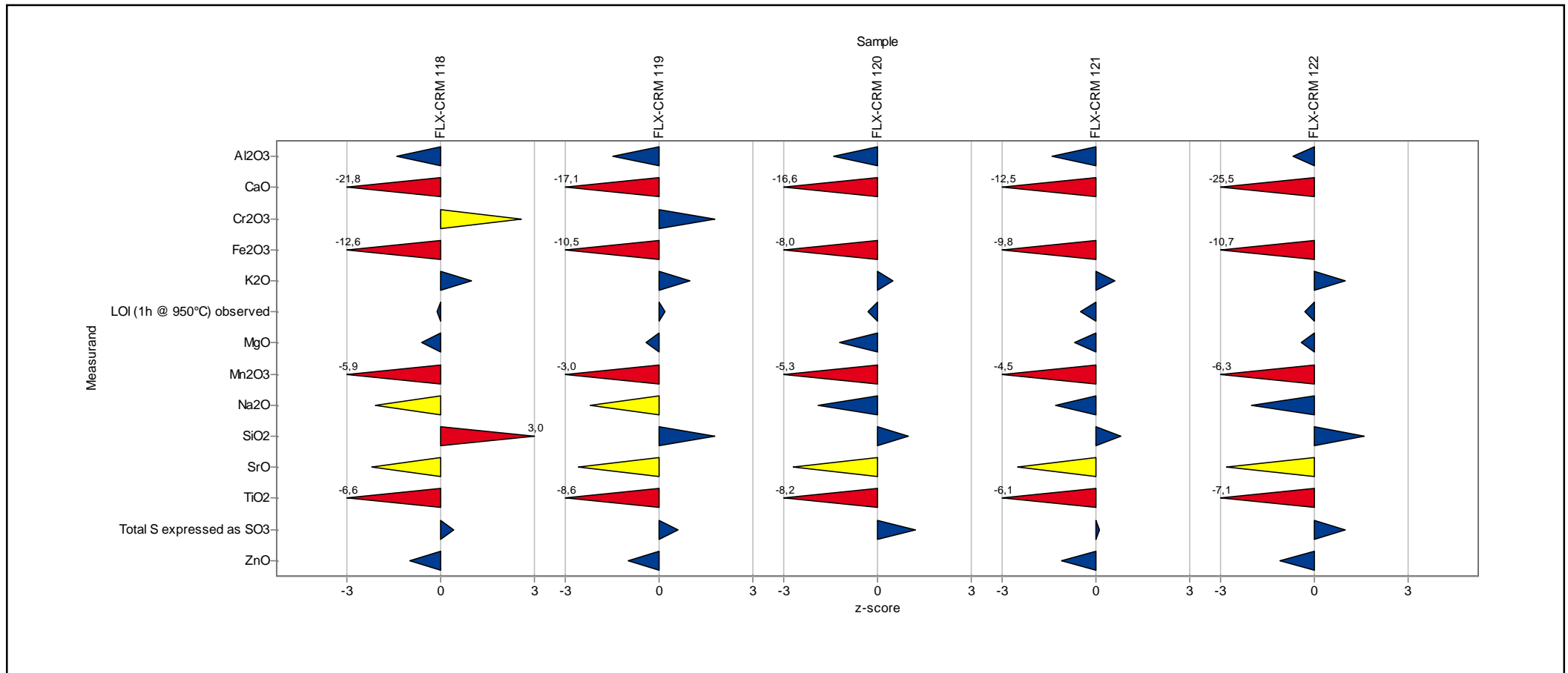
Laboratory: 41



RV118

Laboratory chart of z-scores

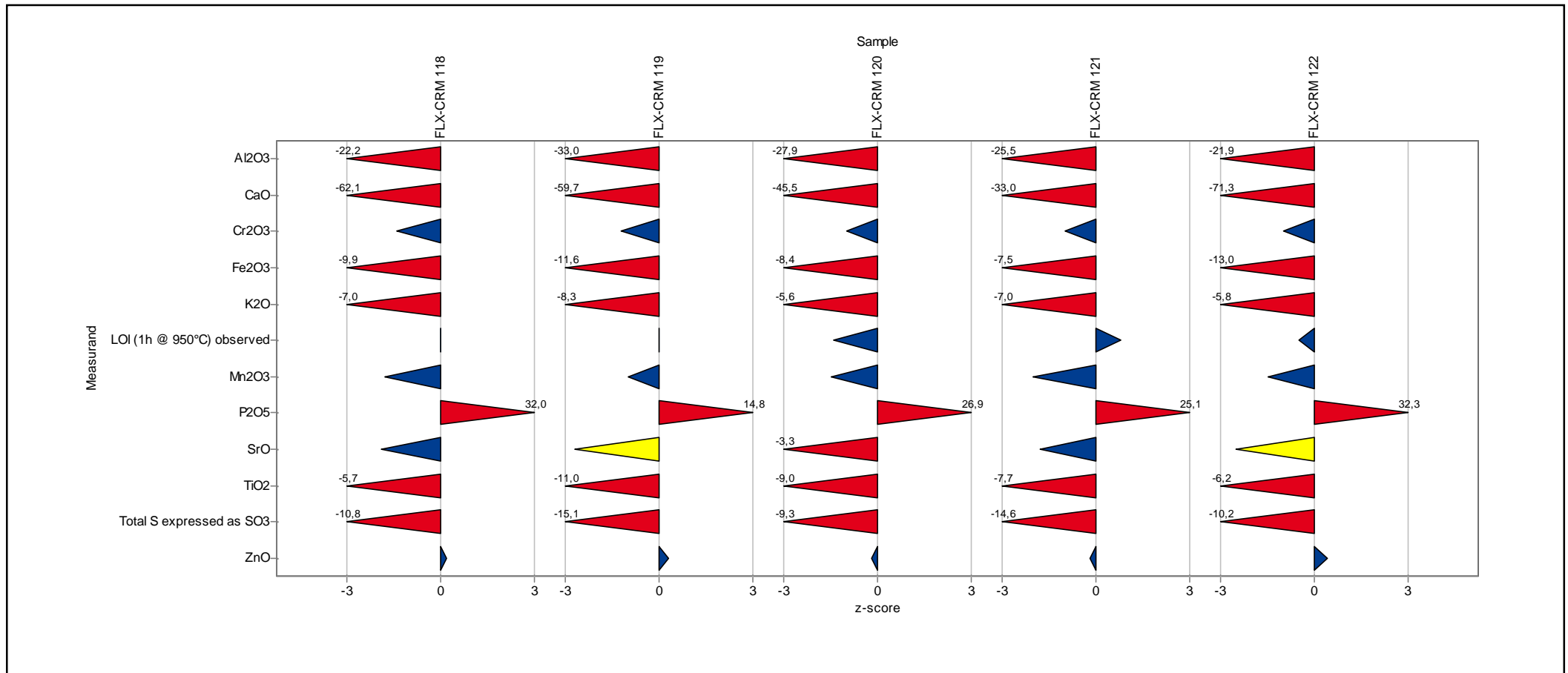
Laboratory: 42



RV118

Laboratory chart of z-scores

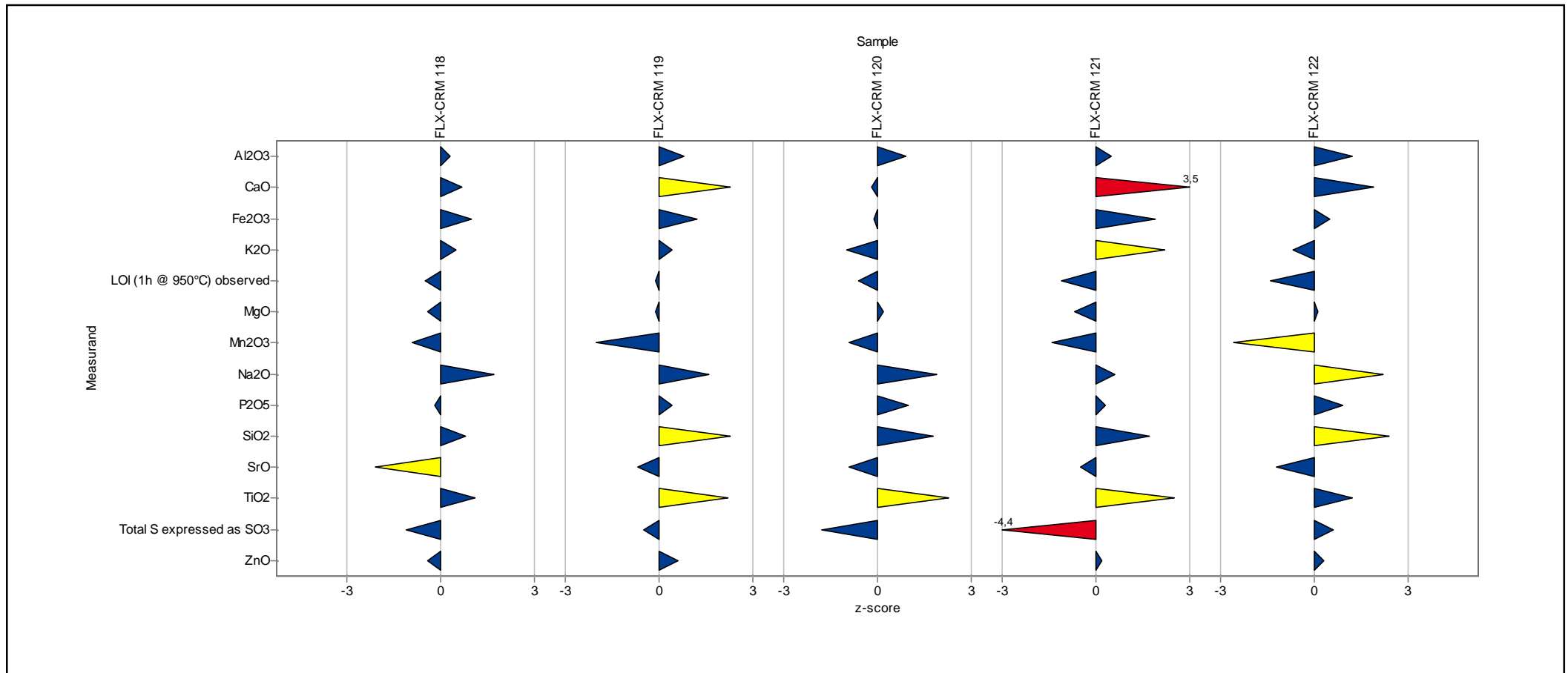
Laboratory: 43



RV118

Laboratory chart of z-scores

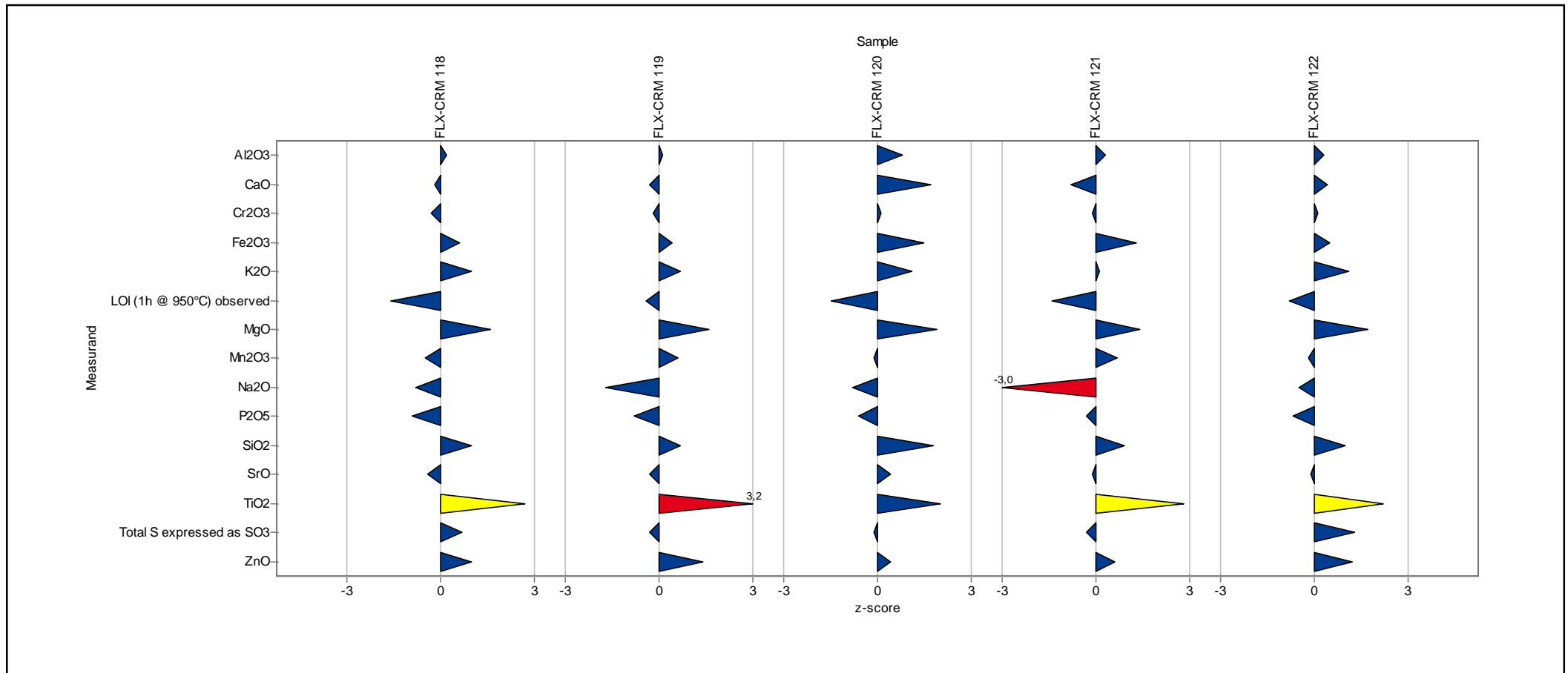
Laboratory: 44



RV118

Laboratory chart of z-scores

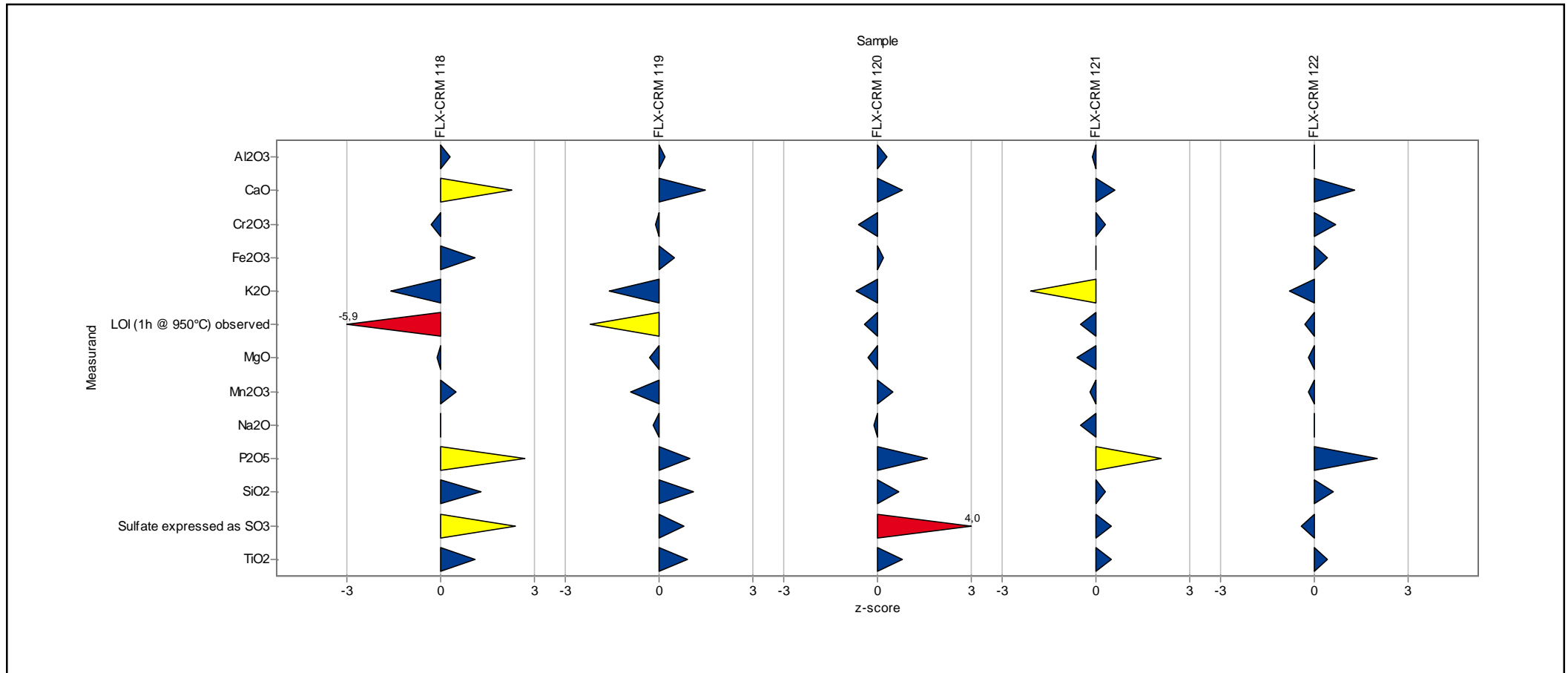
Laboratory: 45



RV118

Laboratory chart of z-scores

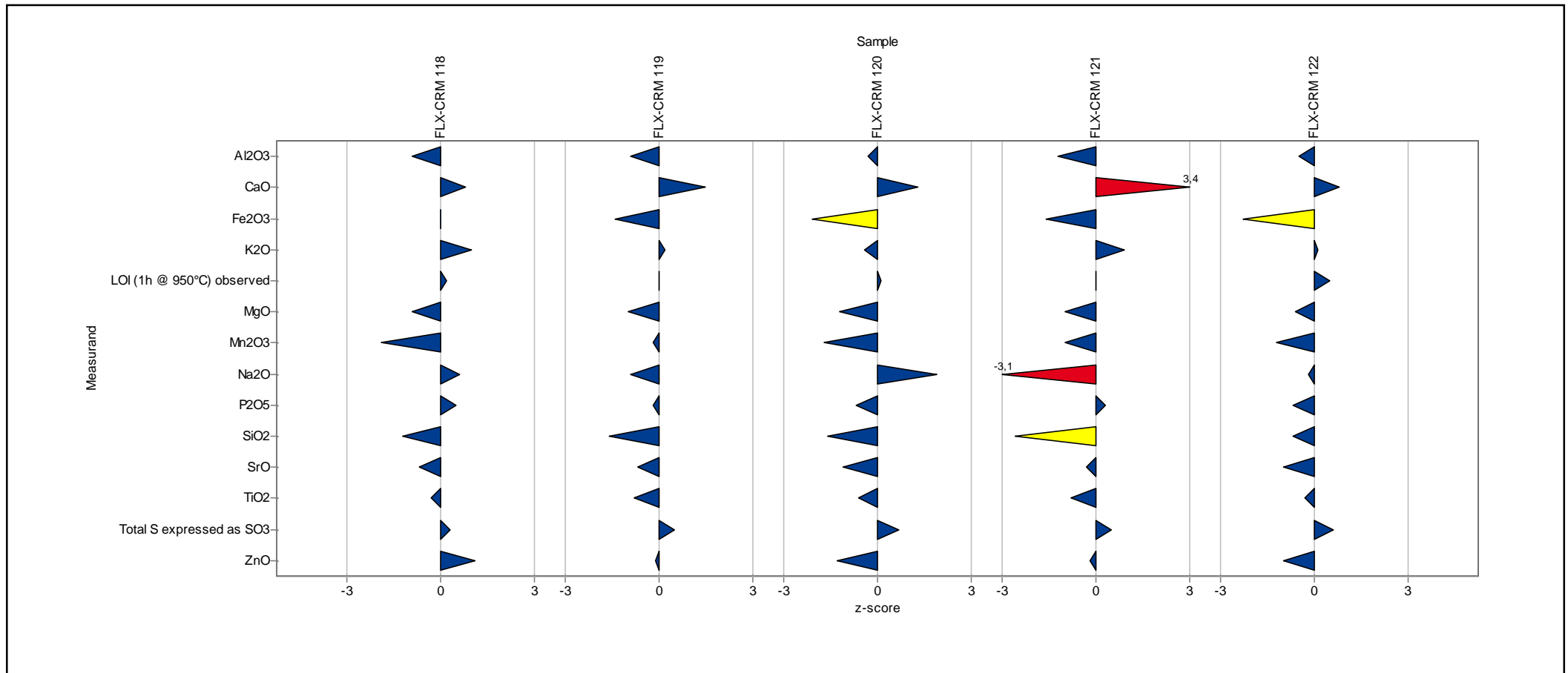
Laboratory: 47



RV118

Laboratory chart of z-scores

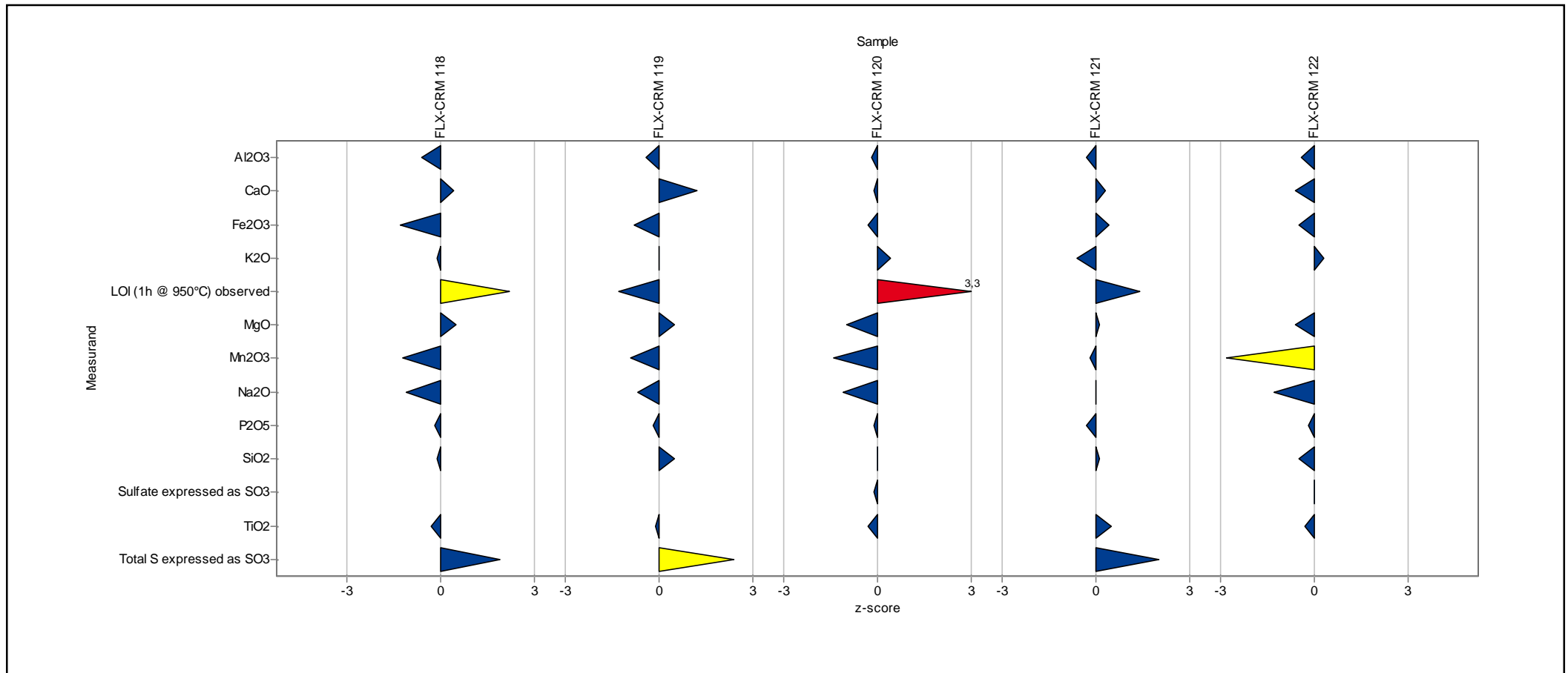
Laboratory: 48



RV118

Laboratory chart of z-scores

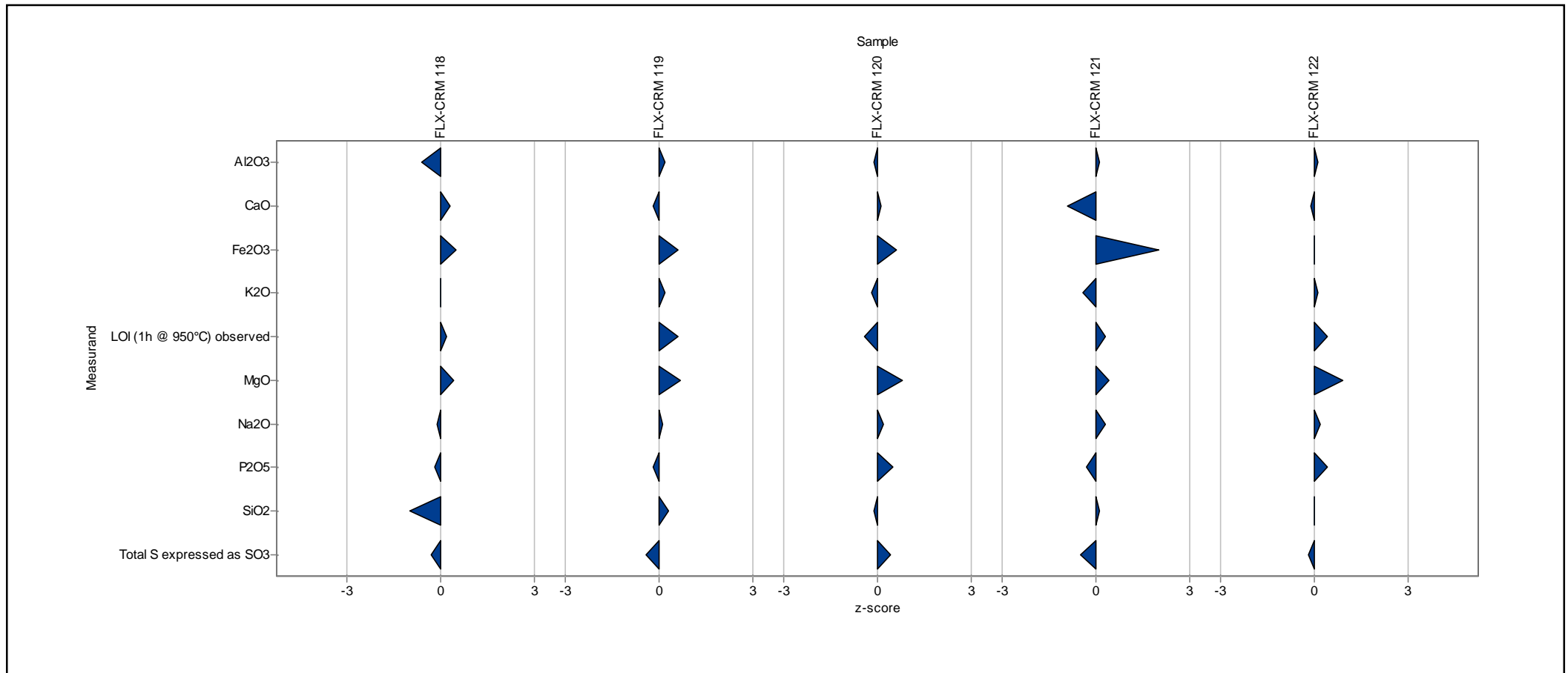
Laboratory: 49



RV118

Laboratory chart of z-scores

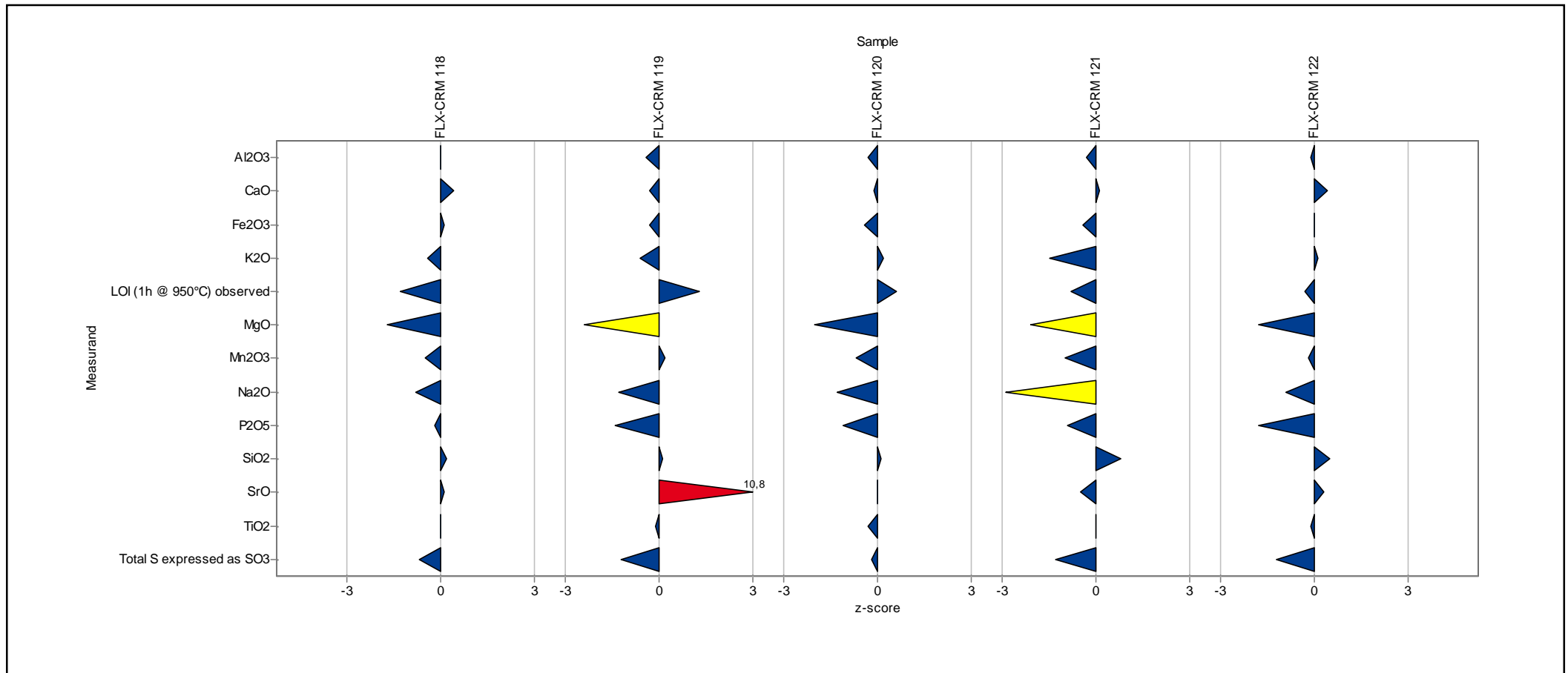
Laboratory: 50



RV118

Laboratory chart of z-scores

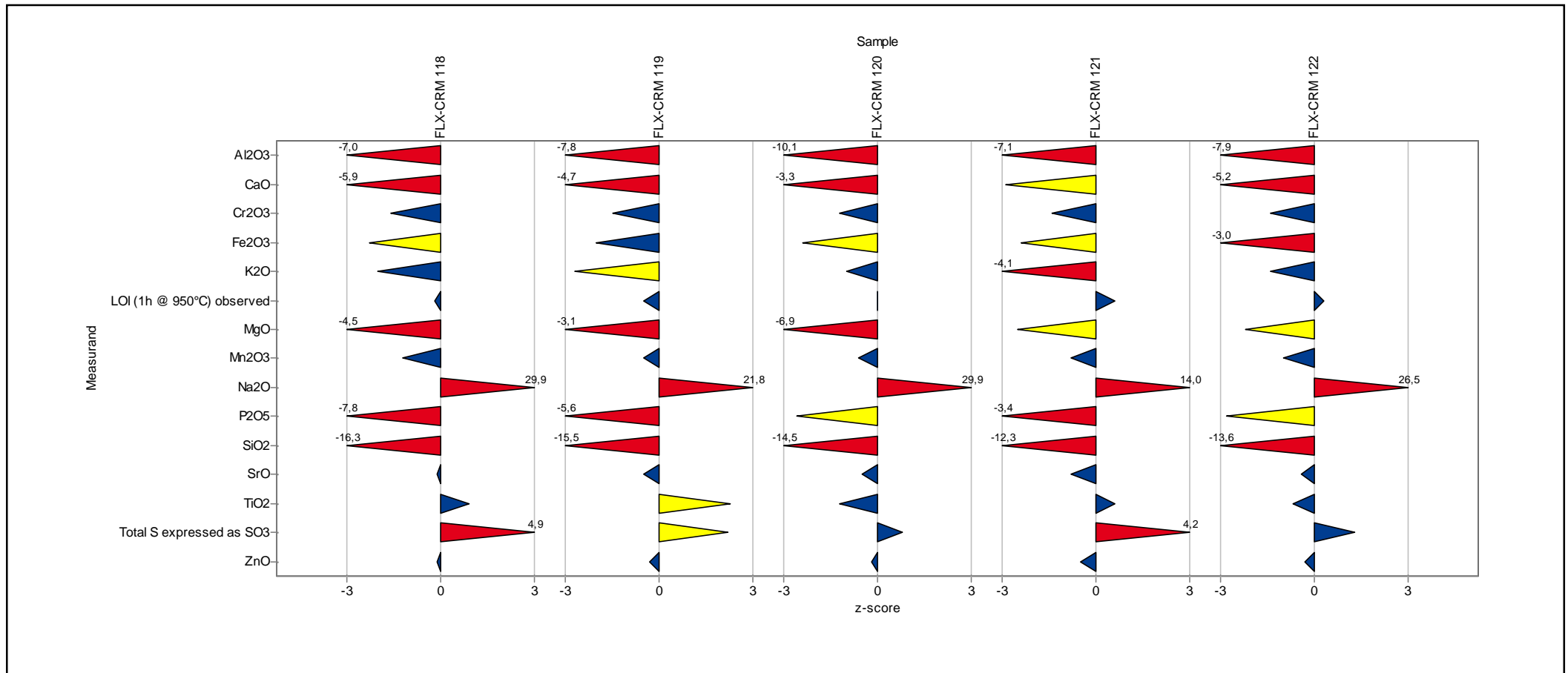
Laboratory: 51



RV118

Laboratory chart of z-scores

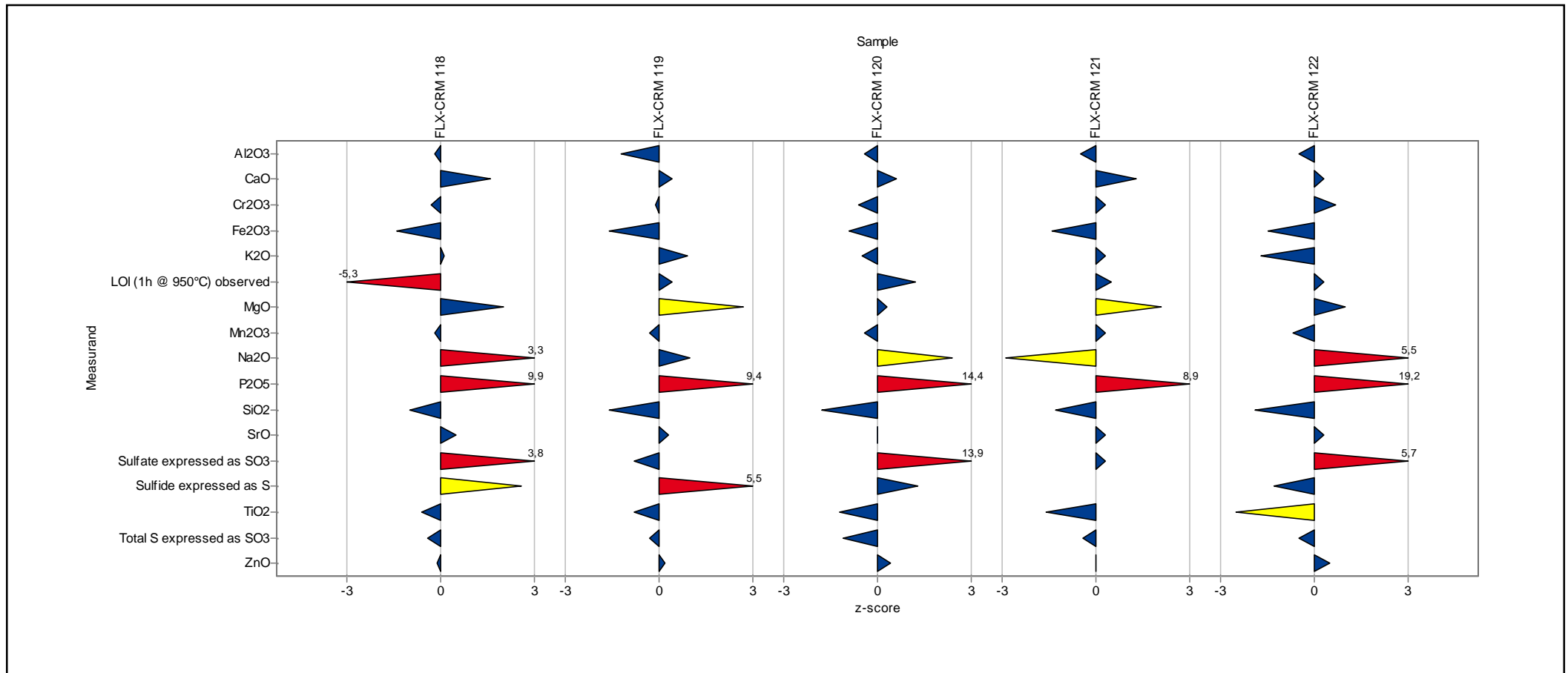
Laboratory: 52



RV118

Laboratory chart of z-scores

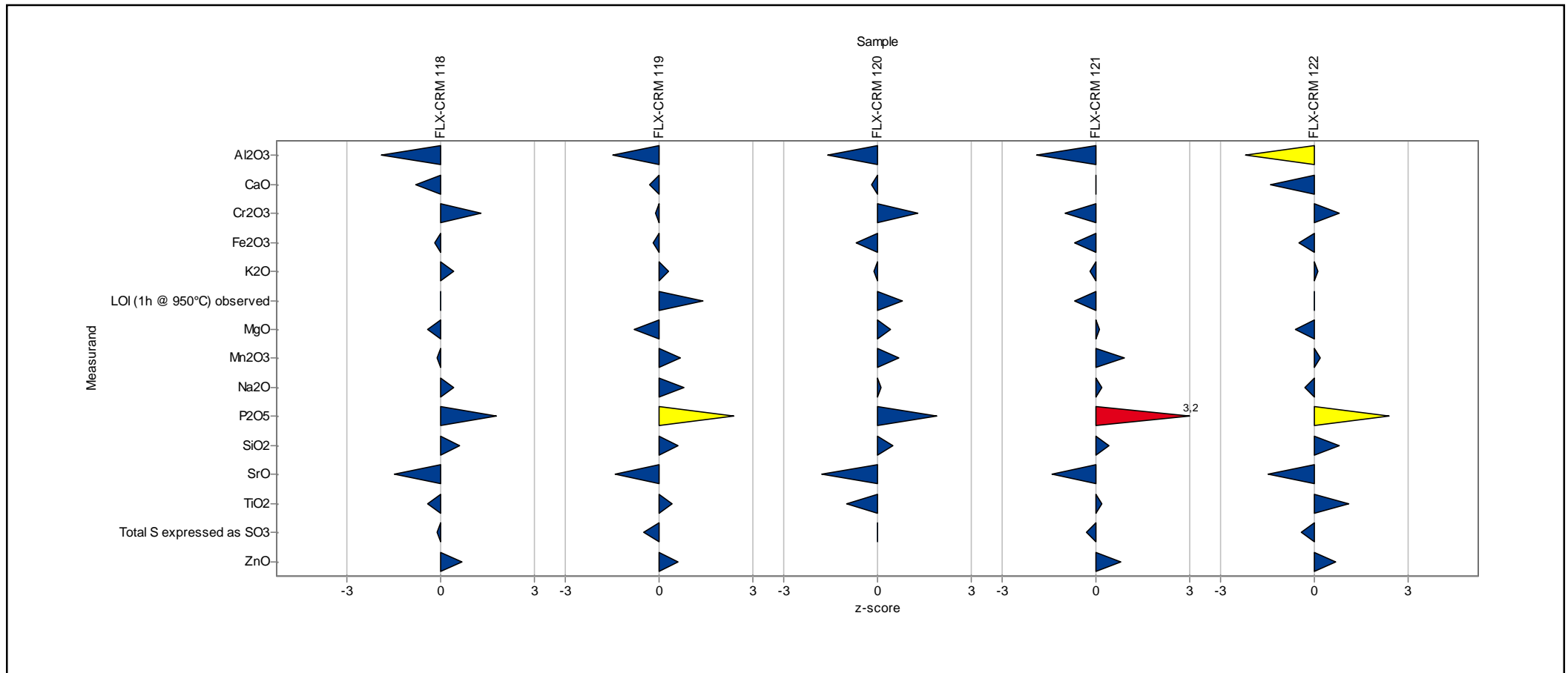
Laboratory: 53



RV118

Laboratory chart of z-scores

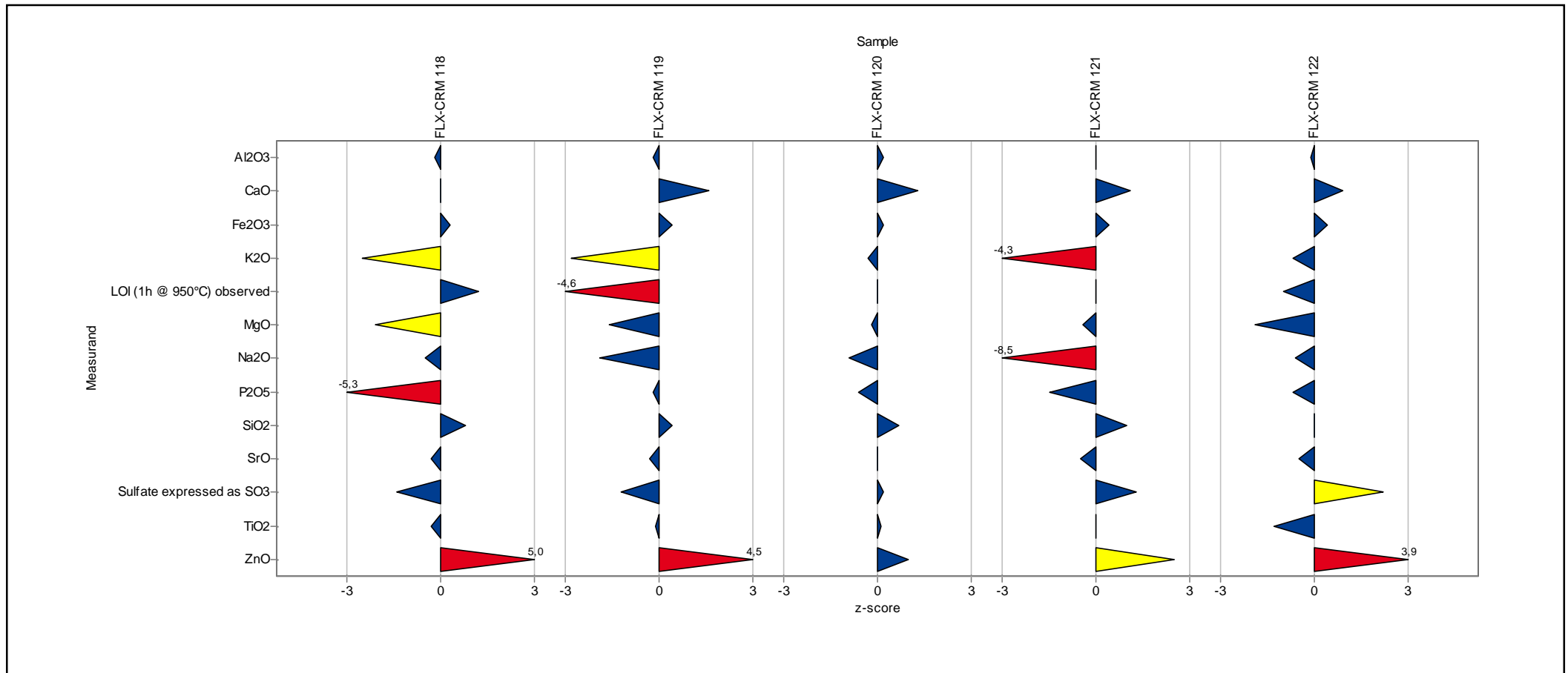
Laboratory: 55



RV118

Laboratory chart of z-scores

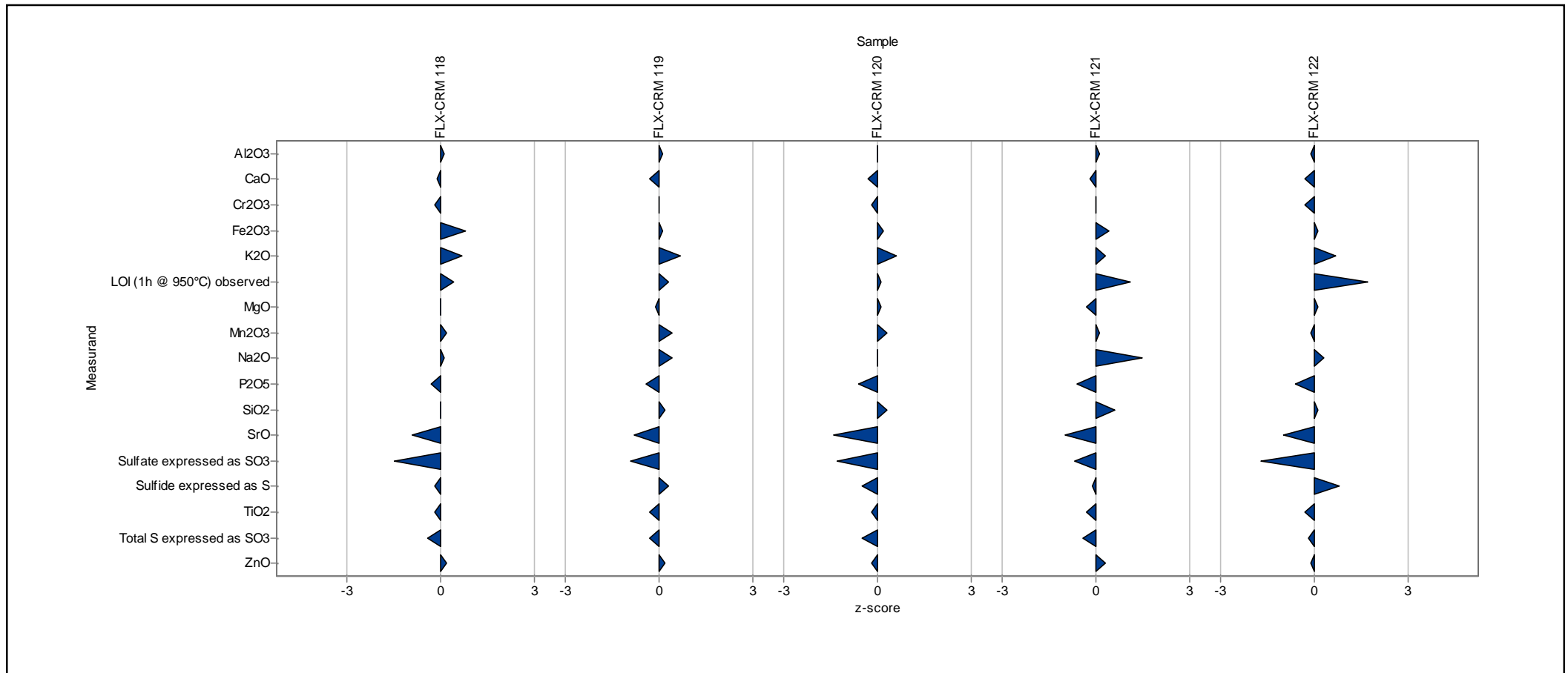
Laboratory: 56



RV118

Laboratory chart of z-scores

Laboratory: 57



RV118

Laboratory chart of z-scores

Laboratory: 59

