

Final Proficiency Test Report for Dolomite (RV-2025-01)

FLX-2004



Bedburg-Hau, February 06th 2025

Coordinator of PT

Charlotte Winkels-Herding

Statistics and Report

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| | Al ₂ O ₃ | CaO | Fe ₂ O ₃ | K ₂ O | MgO | Mn ₂ O ₃ |
|---|--------------------------------|--------|--------------------------------|------------------|--------|--------------------------------|
| Unit | % | % | % | % | % | % |
| No. of laboratories | 17 | 17 | 17 | 15 | 17 | 12 |
| Mean m | 0,640 | 42,953 | 0,316 | 0,119 | 9,896 | 0,010 |
| Reproducibility standard deviation s _R | 0,039 | 0,515 | 0,026 | 0,026 | 0,141 | 0,003 |
| Repeatability standard deviation s _r | 0,005 | 0,028 | 0,006 | 0,003 | 0,025 | 0,001 |
| Reproducibility standard deviation s* | 0,043 | 0,547 | 0,024 | 0,027 | 0,107 | 0,003 |
| Uncertainty U (s*) | 0,026 | 0,332 | 0,015 | 0,018 | 0,065 | 0,002 |
| Uncertainty U (s _R) | 0,024 | 0,312 | 0,016 | 0,017 | 0,085 | 0,002 |
| Mean - 2*s _R | 0,562 | 41,924 | 0,264 | 0,066 | 9,614 | 0,003 |
| Mean + 2*s _R | 0,718 | 43,983 | 0,368 | 0,172 | 10,178 | 0,016 |

| | P ₂ O ₅ | SiO ₂ | SrO | TiO ₂ | ZnO | LOI |
|---|-------------------------------|------------------|-------|------------------|-------|--------|
| Unit | % | % | % | % | % | % |
| No. of laboratories | 14 | 17 | 13 | 16 | 11 | 16 |
| Mean m | 0,013 | 1,708 | 0,015 | 0,031 | 0,007 | 44,402 |
| Reproducibility standard deviation s _R | 0,004 | 0,046 | 0,002 | 0,007 | 0,002 | 0,155 |
| Repeatability standard deviation s _r | 0,001 | 0,013 | 0,001 | 0,001 | 0,002 | 0,026 |
| Reproducibility standard deviation s* | 0,004 | 0,036 | 0,002 | 0,006 | 0,001 | 0,164 |
| Uncertainty U (s*) | 0,003 | 0,022 | 0,001 | 0,004 | 0,001 | 0,102 |
| Uncertainty U (s _R) | 0,003 | 0,028 | 0,001 | 0,004 | 0,002 | 0,097 |
| Mean - 2*s _R | 0,006 | 1,615 | 0,011 | 0,016 | 0,004 | 44,093 |
| Mean + 2*s _R | 0,020 | 1,801 | 0,019 | 0,045 | 0,011 | 44,711 |

| | |
|---------------------|--|
| Mean | calculated from laboratory means using traceable methods only |
| s _R | Reproducibility standard deviation (based on all measurements) |
| s _r | Repeatability standard deviation (inside the laboratories) |
| s* | Reproducibility standard deviation (based on laboratory means) |
| U (s*) | uncertainty calculated for a confidence interval of P= 95% (k=2) |
| U (s _R) | uncertainty calculated for a confidence interval of P= 95% (k=2) |
| Range of tolerance | Mean ± 2 x s _R ; all labs within this range show satisfactory performance |



Elements marked as (info only)

If the **reproducibility standard deviation** s_R of a mean value is higher than 50% relative of the mean, all statistical data are only shown as information to the participant. In such a case there is no serious assessment of z-scores possible.

| | Cr2O3 | Na2O | SO3 |
|--|--------------|-------------|------------|
| | info only | info only | info only |
| Unit | % | % | % |
| No. of laboratories | 7 | 8 | 12 |
| Mean m | 0,003 | 0,027 | 0,038 |
| Reproducibility standard deviation s_R | 0,010 | 0,019 | 0,024 |
| Repeatability standard deviation s_r | 0,010 | 0,003 | 0,002 |
| Reproducibility standard deviation s^* | 0,005 | 0,019 | 0,021 |
| Uncertainty U (s^*) | 0,005 | 0,017 | 0,015 |
| Uncertainty U (s_R) | 0,009 | 0,017 | 0,017 |
| Mean - 2*s_R | -0,016 | -0,011 | -0,011 |
| Mean + 2*s_R | 0,023 | 0,064 | 0,086 |

| | |
|-----------------------------|--|
| Mean | calculated from laboratory means using traceable methods only |
| s_R | Reproducibility standard deviation (based on all measurements) |
| s_r | Repeatability standard deviation (inside the laboratories) |
| s^* | Reproducibility standard deviation (based on laboratory means) |
| U (s^*) | uncertainty calculated for a confidence interval of P= 95% (k=2) |
| U (s_R) | uncertainty calculated for a confidence interval of P= 95% (k=2) |
| Range of tolerance | Mean \pm 2 x s_R ; all labs within this range show satisfactory performance |



Introduction

FLUXANA GmbH & Co. KG is a company providing services in the field of X-ray fluorescence analysis (XRF).

In 2011, FLUXANA introduced its own quality management.

In 2020 the accreditation of the FLUXANA Laboratory in Bedburg-Hau, Germany, was updated to DIN EN ISO/IEC 17025:2018 and FLUXANA received accreditation as Producer of Reference materials according to DIN EN ISO 17034:2017, as well.

The performance of proficiency tests is not yet accredited. However, the proficiency tests are conducted following the corresponding norms.

Outliers

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). Obvious blunders are taken out before calculation and will be marked as 'information only'.

Further Information

All laboratory data is listed in the following evaluation report. Additional information about laboratory accreditation and analytical methods used is also provided. Calculation was done only on traceable methods.

Other methods, e.g., XRF using "pressed pellets" as the sample preparation method or XRF with the "standardless analysis" method, which are not traceable can also be used. These values will not be included in the evaluation. They will, however, be shown as 'information only' in the report and laboratory comparison.

The laboratory performance is shown based on z-scores. The diagrams show the laboratory data in comparison with the calculated mean values.



Participants

| | |
|---|--------------|
| Bernegger GmH, Österreich | Austria |
| InterCal Austria GmbH | Austria |
| VBE Österreich | Austria |
| LHOIST RECHERCHE ET DEVELOPPEMENT SA | Belgium |
| BMI - BRAAS GmbH | Germany |
| Dorfner Analysezentrum und Anlagenplanungsgesellschaft mbH (Anzaplan) | Germany |
| Euroglas GmbH | Germany |
| FLUXANA GmbH & Co. KG | Germany |
| Landesamt für Geologie und Bergbau | Germany |
| OPTERRA Wössingen GmbH | Germany |
| THYSSENKRUPP STEEL EUROPE AG | Germany |
| THYSSENKRUPP STEEL EUROPE AG, Zeche | Germany |
| Quantum Tech Griechenland (Lafarge holcim aget Heracles milaki plant) | Greece |
| Riyadh Geotechnique and Foundation (RGF) | Saudi Arabia |
| D-LAB Degerfors Laboratorium AB | Sweden |
| LKAB | Sweden |
| Jura-Cement-Fabriken, Wildegg | Switzerland |
| Omya International AG | Switzerland |



Statistical Evaluation used for this PT

Calculation of Mean m

The mean m for all laboratories is calculated using the Hampel estimator (ISO/TS 20612:2007 9.2.3 + ISO 13528 C.5.3.2) based on the laboratory means μ using traceable methods only.

Calculation of reproducibility standard deviation s_R

The reproducibility standard deviation s_R is calculated using the Q-method (ISO/TS 20612:2007 9.2.2 + ISO 13528 C.5.2.2).

Calculation of repeatability standard deviation s_r

The repeatability standard deviation s_r is also calculated using the Q-method (ISO/TS 20612:2007 Annex B).

Calculation of reproducibility standard deviation s^*

The reproducibility standard deviation s^* is calculated from the laboratory means μ using the Q-method (ISO/TS 20612:2007 9.2.2 + ISO 13258 C.5.2.2).

Calculation of uncertainty U_{s_R} (according to Nordtest TR 537 ed 3.1.)

The **uncertainty U_{s_R}** for a confidence interval of $P=95\%$ ($k=2$) can be calculated from the **reproducibility standard deviation s_R** (factor 1.25 for average median, robust statistics) and the number of participating laboratories p :

$$U_{s_R} = 2 * 1.25 * \frac{s_R}{\sqrt{p}}$$

Calculation of uncertainty U_{s^*} (according to ISO 13528:2022 7.7.7)

The **uncertainty U_{s^*}** for a confidence interval of $P=95\%$ ($k=2$) can be calculated from the **robust standard deviation s^*** (factor 1.25 for average median, robust statistics)) and the number of participating laboratories p :

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$$U_{s^*} = 2 * 1.25 * \frac{s^*}{\sqrt{p}}$$

The **uncertainty** U_{s^*} only takes the between laboratories uncertainty into account while the **uncertainty** U_{s_R} also includes the within laboratories uncertainty. Therefore U_{s_R} is recommended for use in accredited laboratories.

Laboratory performance

Laboratory proficiency assessment is based on z-scores.

The **z-score** z is calculated from all laboratory means μ :

$$z = \frac{m - \mu}{s_R}$$

| | |
|-------|--|
| m | Mean value for 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 |

Z-scores with $3 \geq |z| \geq 2$ are highlighted with a yellow color, z-scores with $|z| \geq 3$ are highlighted with a red color.

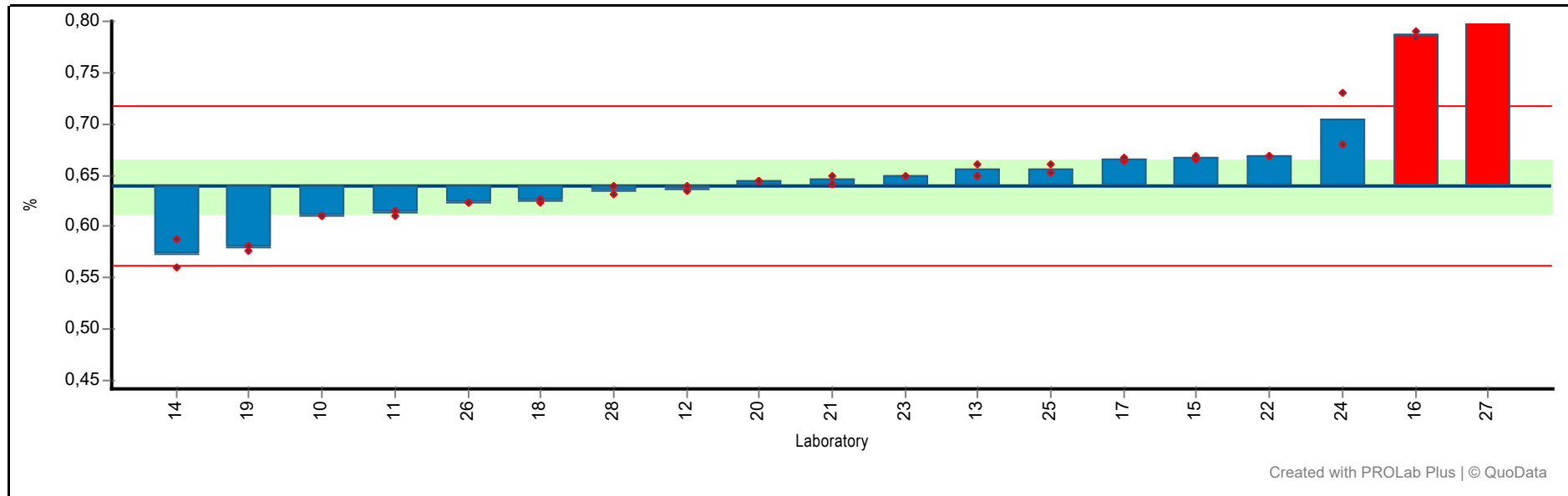
feedback@fluxana.de



RV_2025_01 Dolomite

Summary results

Sample: FLX-2004 **Reprod. s.d.:** 0,039 %
Measurand: Al₂O₃ **Repeat. s.d.:** 0,005 %
Mean ± U(Mean): 0,640 ± 0,026 % **Range of tolerance:** 0,562 - 0,718 % (|z-score| ≤ 2,0)
Number of laboratories in calculation: 17 **Statistical method:** Q/Hampel



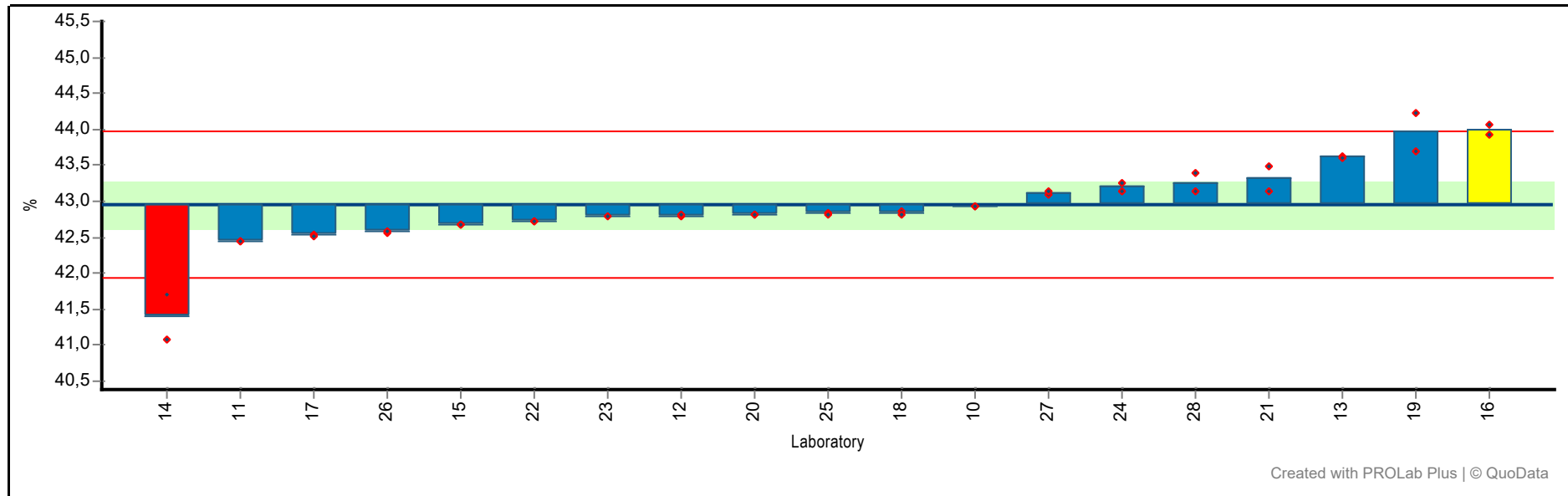
| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|---------|
| 10 | 0,610 | 0,610 | 0,610 | 0,000 | -0,8 | XRF (fusion) | no accreditation | |
| 11 | 0,616 | 0,611 | 0,613 | 0,004 | -0,7 | XRF (fusion) | ISO 17025 | |
| 12 | 0,639 | 0,635 | 0,637 | 0,003 | -0,1 | XRF (fusion) | ISO 17025 | |
| 13 | 0,661 | 0,650 | 0,655 | 0,008 | 0,4 | XRF (fusion) | ISO 17025 | |
| 14 | 0,560 | 0,587 | 0,574 | 0,019 | -1,7 | XRF (fusion) | no accreditation | |
| 15 | 0,665 | 0,668 | 0,667 | 0,002 | 0,7 | XRF (fusion) | no accreditation | |

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| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|----------------------|------------------|---------------------------|
| 16 | 0,791 | 0,784 | 0,788 | 0,005 | 3,8 | XRF (fusion) | no accreditation | |
| 17 | 0,664 | 0,667 | 0,665 | 0,002 | 0,7 | XRF (fusion) | ISO 17025 | |
| 18 | 0,624 | 0,627 | 0,625 | 0,002 | -0,4 | XRF (fusion) | no accreditation | |
| 19 | 0,577 | 0,581 | 0,579 | 0,003 | -1,6 | XRF (fusion) | no accreditation | |
| 20 | 0,644 | 0,644 | 0,644 | 0,000 | 0,1 | XRF (fusion) | ISO 17025 | |
| 21 | 0,650 | 0,642 | 0,646 | 0,006 | 0,2 | XRF (fusion) | no accreditation | |
| 22 | 0,668 | 0,669 | 0,669 | 0,001 | 0,7 | XRF (fusion) | no accreditation | |
| 23 | 0,650 | | 0,650 | | 0,3 | XRF (pressed pellet) | no accreditation | info only |
| 24 | 0,730 | 0,680 | 0,705 | 0,035 | 1,7 | XRF (fusion) | no accreditation | |
| 25 | 0,661 | 0,652 | 0,657 | 0,006 | 0,4 | XRF (fusion) | no accreditation | |
| 26 | 0,623 | 0,623 | 0,623 | 0,000 | -0,4 | Other Method | ISO 17025 | ICP-OES, DIN EN ISO 11885 |
| 27 | 0,944 | 0,918 | 0,931 | 0,018 | 7,5 | XRF (pressed pellet) | no accreditation | info only |
| 28 | 0,639 | 0,632 | 0,635 | 0,005 | -0,1 | XRF (fusion) | no accreditation | |

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Sample: FLX-2004 **Reprod. s.d.:** 0,515 %
Measurand: CaO **Repeat. s.d:** 0,028 %
Mean ± U(Mean): 42,953 ± 0,332 % **Range of tolerance:** 41,924 - 43,983 % (|z-score| ≤ 2,0)
Number of laboratories in calculation: 17 **Statistical method:** Q/Hampel



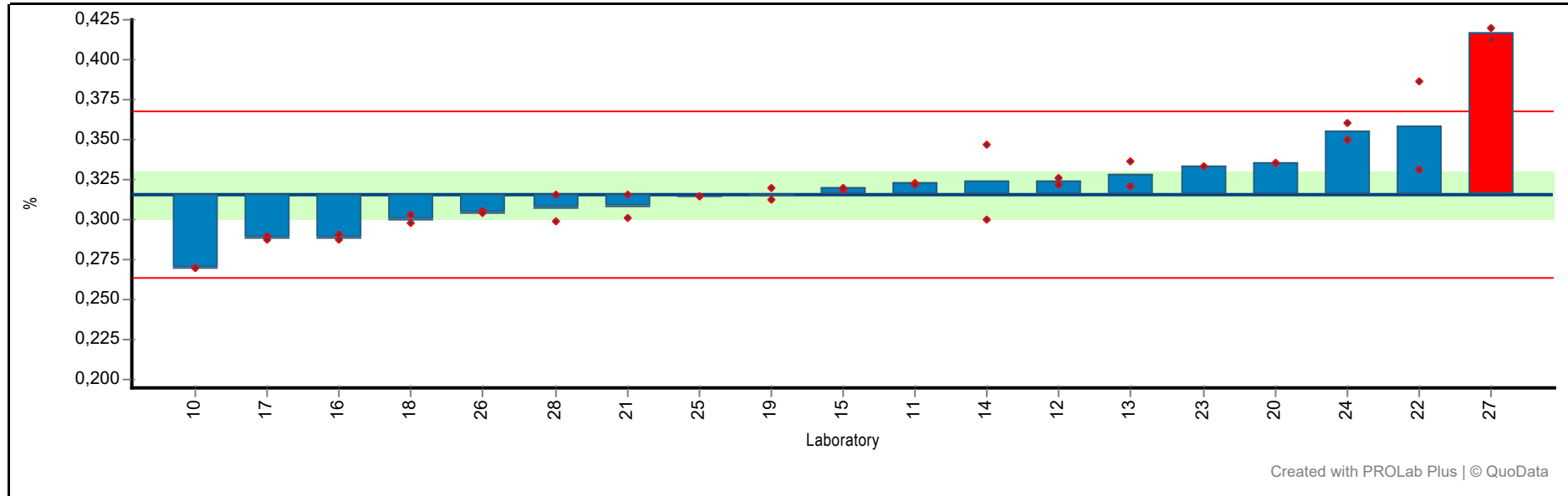
| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|---------|
| 10 | 42,940 | 42,940 | 42,940 | 0,000 | 0,0 | XRF (fusion) | no accreditation | |
| 11 | 42,448 | 42,440 | 42,444 | 0,006 | -1,0 | XRF (fusion) | ISO 17025 | |
| 12 | 42,791 | 42,814 | 42,802 | 0,016 | -0,3 | XRF (fusion) | ISO 17025 | |
| 13 | 43,629 | 43,602 | 43,615 | 0,019 | 1,3 | XRF (fusion) | ISO 17025 | |
| 14 | 41,710 | 41,087 | 41,398 | 0,441 | -3,0 | XRF (fusion) | no accreditation | |
| 15 | 42,671 | 42,682 | 42,677 | 0,008 | -0,5 | XRF (fusion) | no accreditation | |
| 16 | 43,929 | 44,073 | 44,001 | 0,102 | 2,0 | XRF (fusion) | no accreditation | |
| 17 | 42,538 | 42,521 | 42,529 | 0,012 | -0,8 | XRF (fusion) | ISO 17025 | |

RV_2025_01 Dolomite

| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|----------------------|------------------|---------------------------|
| 18 | 42,858 | 42,826 | 42,842 | 0,023 | -0,2 | XRF (fusion) | no accreditation | |
| 19 | 43,703 | 44,233 | 43,968 | 0,375 | 2,0 | XRF (fusion) | no accreditation | |
| 20 | 42,814 | 42,804 | 42,809 | 0,007 | -0,3 | XRF (fusion) | ISO 17025 | |
| 21 | 43,490 | 43,140 | 43,315 | 0,247 | 0,7 | XRF (fusion) | no accreditation | |
| 22 | 42,711 | 42,718 | 42,715 | 0,005 | -0,5 | XRF (fusion) | no accreditation | |
| 23 | 42,800 | | 42,800 | | -0,3 | XRF (pressed pellet) | no accreditation | info only |
| 24 | 43,250 | 43,150 | 43,200 | 0,071 | 0,5 | XRF (fusion) | no accreditation | |
| 25 | 42,845 | 42,823 | 42,834 | 0,016 | -0,2 | XRF (fusion) | no accreditation | |
| 26 | 42,560 | 42,590 | 42,575 | 0,021 | -0,7 | Other Method | ISO 17025 | ICP-OES, DIN EN ISO 11885 |
| 27 | 43,086 | 43,132 | 43,109 | 0,033 | 0,3 | XRF (pressed pellet) | no accreditation | info only |
| 28 | 43,142 | 43,388 | 43,265 | 0,174 | 0,6 | XRF (fusion) | no accreditation | |

RV_2025_01 Dolomite

Sample: FLX-2004 **Reprod. s.d.:** 0,026 %
Measurand: Fe₂O₃ **Repeat. s.d.:** 0,006 %
Mean ± U(Mean): 0,316 ± 0,015 % **Range of tolerance:** 0,264 - 0,368 % (|z-score| ≤ 2,0)
Number of laboratories in calculation: 17 **Statistical method:** Q/Hampel



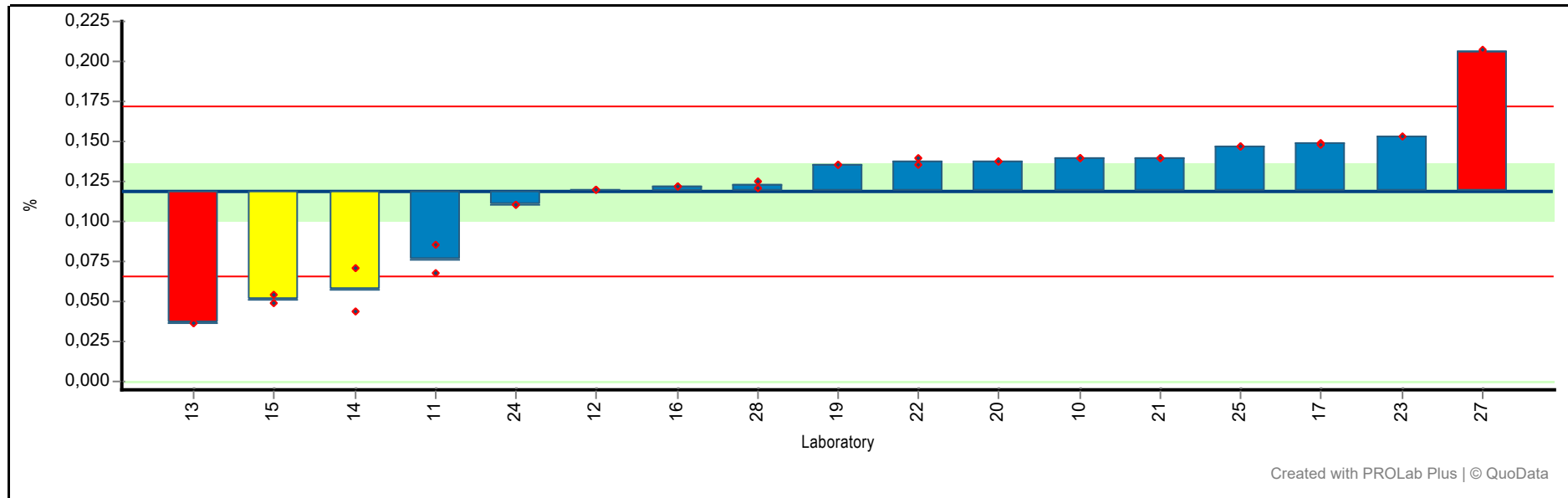
| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|---------|
| 10 | 0,270 | 0,270 | 0,270 | 0,000 | -1,8 | XRF (fusion) | no accreditation | |
| 11 | 0,323 | 0,322 | 0,323 | 0,001 | 0,3 | XRF (fusion) | ISO 17025 | |
| 12 | 0,322 | 0,326 | 0,324 | 0,003 | 0,3 | XRF (fusion) | ISO 17025 | |
| 13 | 0,336 | 0,321 | 0,329 | 0,011 | 0,5 | XRF (fusion) | ISO 17025 | |
| 14 | 0,300 | 0,347 | 0,324 | 0,033 | 0,3 | XRF (fusion) | no accreditation | |
| 15 | 0,319 | 0,320 | 0,320 | 0,001 | 0,1 | XRF (fusion) | no accreditation | |
| 16 | 0,287 | 0,291 | 0,289 | 0,003 | -1,0 | XRF (fusion) | no accreditation | |
| 17 | 0,290 | 0,287 | 0,288 | 0,002 | -1,0 | XRF (fusion) | ISO 17025 | |

RV_2025_01 Dolomite

| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|----------------------|------------------|---------------------------|
| 18 | 0,298 | 0,303 | 0,300 | 0,004 | -0,6 | XRF (fusion) | no accreditation | |
| 19 | 0,312 | 0,320 | 0,316 | 0,006 | 0,0 | XRF (fusion) | no accreditation | |
| 20 | 0,335 | 0,335 | 0,335 | 0,000 | 0,7 | XRF (fusion) | ISO 17025 | |
| 21 | 0,301 | 0,316 | 0,308 | 0,011 | -0,3 | XRF (fusion) | no accreditation | |
| 22 | 0,386 | 0,331 | 0,359 | 0,039 | 1,6 | XRF (fusion) | no accreditation | |
| 23 | 0,333 | | 0,333 | | 0,7 | XRF (pressed pellet) | no accreditation | info only |
| 24 | 0,350 | 0,360 | 0,355 | 0,007 | 1,5 | XRF (fusion) | no accreditation | |
| 25 | 0,315 | 0,315 | 0,315 | 0,000 | 0,0 | XRF (fusion) | no accreditation | |
| 26 | 0,305 | 0,304 | 0,304 | 0,001 | -0,4 | Other Method | ISO 17025 | ICP-OES, DIN EN ISO 11885 |
| 27 | 0,420 | 0,413 | 0,416 | 0,005 | 3,9 | XRF (pressed pellet) | no accreditation | info only |
| 28 | 0,316 | 0,299 | 0,307 | 0,012 | -0,3 | XRF (fusion) | no accreditation | |

RV_2025_01 Dolomite

Sample: FLX-2004 **Reprod. s.d.:** 0,026 %
Measurand: K2O **Repeat. s.d:** 0,003 %
Mean ± U(Mean): 0,119 ± 0,018 % **Range of tolerance:** 0,066 - 0,172 % (|z-score| ≤ 2,0)
Number of laboratories in calculation: 15 **Statistical method:** Q/Hampel



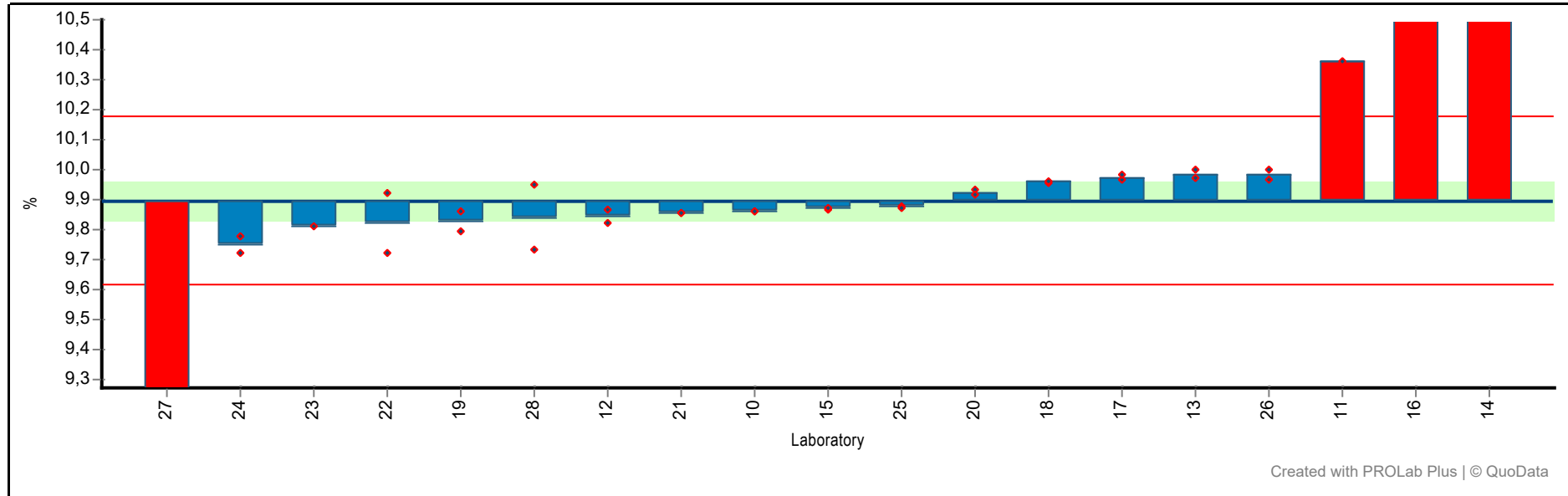
| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|---------|
| 10 | 0,140 | 0,140 | 0,140 | 0,000 | 0,8 | XRF (fusion) | no accreditation | |
| 11 | 0,068 | 0,085 | 0,077 | 0,012 | -1,6 | XRF (fusion) | ISO 17025 | |
| 12 | 0,120 | 0,120 | 0,120 | 0,000 | 0,1 | XRF (fusion) | ISO 17025 | |
| 13 | 0,036 | 0,036 | 0,036 | 0,000 | -3,1 | XRF (fusion) | ISO 17025 | |
| 14 | 0,071 | 0,044 | 0,057 | 0,019 | -2,3 | XRF (fusion) | no accreditation | |
| 15 | 0,049 | 0,054 | 0,052 | 0,004 | -2,5 | XRF (fusion) | no accreditation | |
| 16 | 0,122 | 0,122 | 0,122 | 0,000 | 0,1 | XRF (fusion) | no accreditation | |
| 17 | 0,149 | 0,148 | 0,148 | 0,001 | 1,1 | XRF (fusion) | ISO 17025 | |

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| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|----------------------|------------------|-----------|
| 19 | 0,135 | 0,135 | 0,135 | 0,000 | 0,6 | XRF (fusion) | no accreditation | |
| 20 | 0,138 | 0,138 | 0,138 | 0,000 | 0,7 | XRF (fusion) | ISO 17025 | |
| 21 | 0,140 | 0,140 | 0,140 | 0,000 | 0,8 | XRF (fusion) | no accreditation | |
| 22 | 0,135 | 0,140 | 0,138 | 0,004 | 0,7 | XRF (fusion) | no accreditation | |
| 23 | 0,153 | | 0,153 | | 1,3 | XRF (pressed pellet) | no accreditation | info only |
| 24 | 0,110 | 0,110 | 0,110 | 0,000 | -0,3 | XRF (fusion) | no accreditation | |
| 25 | 0,147 | 0,147 | 0,147 | 0,000 | 1,1 | XRF (fusion) | no accreditation | |
| 27 | 0,206 | 0,207 | 0,206 | 0,001 | 3,3 | XRF (pressed pellet) | no accreditation | info only |
| 28 | 0,121 | 0,125 | 0,123 | 0,003 | 0,2 | XRF (fusion) | no accreditation | |

RV_2025_01 Dolomite

Sample: FLX-2004 **Reprod. s.d.:** 0,141 %
Measurand: MgO **Repeat. s.d:** 0,025 %
Mean ± U(Mean): 9,896 ± 0,065 % **Range of tolerance:** 9,614 - 10,178 % (|z-score| ≤ 2,0)
Number of laboratories in calculation: 17 **Statistical method:** Q/Hampel



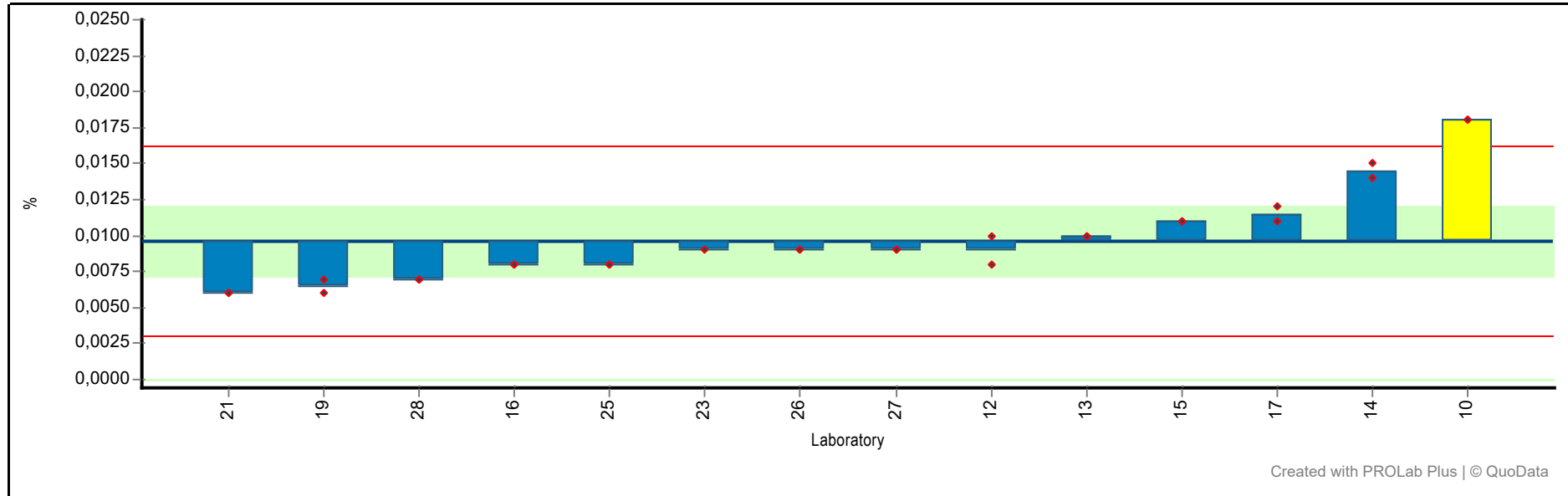
| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|---------|
| 10 | 9,860 | 9,860 | 9,860 | 0,000 | -0,3 | XRF (fusion) | no accreditation | |
| 11 | 10,363 | 10,361 | 10,362 | 0,001 | 3,3 | XRF (fusion) | ISO 17025 | |
| 12 | 9,869 | 9,824 | 9,846 | 0,032 | -0,4 | XRF (fusion) | ISO 17025 | |
| 13 | 9,970 | 9,998 | 9,984 | 0,020 | 0,6 | XRF (fusion) | ISO 17025 | |
| 14 | 11,259 | 11,853 | 11,556 | 0,420 | 11,8 | XRF (fusion) | no accreditation | |
| 15 | 9,869 | 9,872 | 9,870 | 0,002 | -0,2 | XRF (fusion) | no accreditation | |
| 16 | 10,994 | 11,013 | 11,003 | 0,013 | 7,9 | XRF (fusion) | no accreditation | |
| 17 | 9,964 | 9,986 | 9,975 | 0,016 | 0,6 | XRF (fusion) | ISO 17025 | |

RV_2025_01 Dolomite

| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|----------------------|------------------|---------------------------|
| 18 | 9,956 | 9,961 | 9,959 | 0,004 | 0,4 | XRF (fusion) | no accreditation | |
| 19 | 9,863 | 9,796 | 9,829 | 0,047 | -0,5 | XRF (fusion) | no accreditation | |
| 20 | 9,935 | 9,915 | 9,925 | 0,014 | 0,2 | XRF (fusion) | ISO 17025 | |
| 21 | 9,858 | 9,856 | 9,857 | 0,001 | -0,3 | XRF (fusion) | no accreditation | |
| 22 | 9,921 | 9,724 | 9,822 | 0,139 | -0,5 | XRF (fusion) | no accreditation | |
| 23 | 9,810 | | 9,810 | | -0,6 | XRF (pressed pellet) | no accreditation | info only |
| 24 | 9,720 | 9,780 | 9,750 | 0,042 | -1,0 | XRF (fusion) | no accreditation | |
| 25 | 9,878 | 9,875 | 9,877 | 0,002 | -0,1 | XRF (fusion) | no accreditation | |
| 26 | 10,002 | 9,967 | 9,985 | 0,025 | 0,6 | Other Method | ISO 17025 | ICP-OES, DIN EN ISO 11885 |
| 27 | 8,661 | 8,681 | 8,671 | 0,014 | -8,7 | XRF (pressed pellet) | no accreditation | info only |
| 28 | 9,951 | 9,731 | 9,841 | 0,156 | -0,4 | XRF (fusion) | no accreditation | |

RV_2025_01 Dolomite

Sample: FLX-2004 **Reprod. s.d.:** 0,003 %
Measurand: Mn2O3 **Repeat. s.d:** 0,001 %
Mean ± U(Mean): 0,010 ± 0,002 % **Range of tolerance:** 0,003 - 0,016 % (|z-score| ≤ 2,0)
Number of laboratories in calculation: 12 **Statistical method:** Q/Hampel



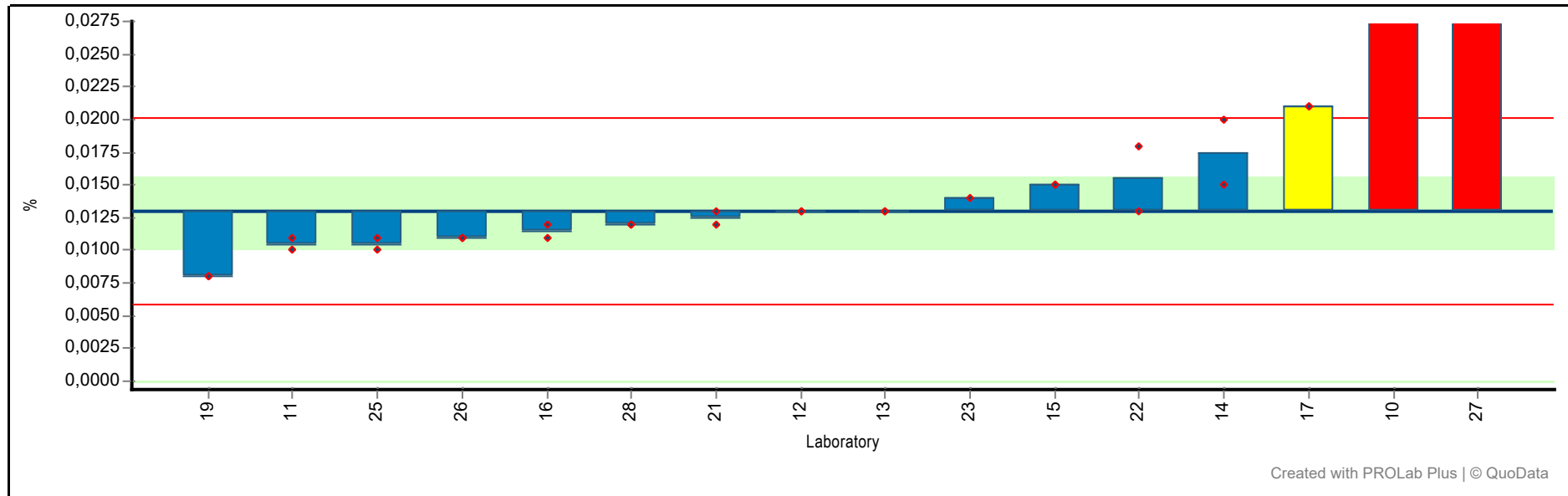
| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|---------|
| 10 | 0,018 | 0,018 | 0,018 | 0,000 | 2,5 | XRF (fusion) | no accreditation | |
| 12 | 0,008 | 0,010 | 0,009 | 0,001 | -0,2 | XRF (fusion) | ISO 17025 | |
| 13 | 0,010 | 0,010 | 0,010 | 0,000 | 0,1 | XRF (fusion) | ISO 17025 | |
| 14 | 0,015 | 0,014 | 0,014 | 0,001 | 1,5 | XRF (fusion) | no accreditation | |
| 15 | 0,011 | 0,011 | 0,011 | 0,000 | 0,4 | XRF (fusion) | no accreditation | |
| 16 | 0,008 | 0,008 | 0,008 | 0,000 | -0,5 | XRF (fusion) | no accreditation | |
| 17 | 0,011 | 0,012 | 0,011 | 0,001 | 0,6 | XRF (fusion) | ISO 17025 | |
| 19 | 0,006 | 0,007 | 0,007 | 0,001 | -0,9 | XRF (fusion) | no accreditation | |

RV_2025_01 Dolomite

| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|----------------------|------------------|---------------------------|
| 21 | 0,006 | 0,006 | 0,006 | 0,000 | -1,1 | XRF (fusion) | no accreditation | |
| 23 | 0,009 | | 0,009 | | -0,2 | XRF (pressed pellet) | no accreditation | info only |
| 25 | 0,008 | 0,008 | 0,008 | 0,000 | -0,5 | XRF (fusion) | no accreditation | |
| 26 | 0,009 | 0,009 | 0,009 | 0,000 | -0,2 | Other Method | ISO 17025 | ICP-OES, DIN EN ISO 11885 |
| 27 | 0,009 | 0,009 | 0,009 | 0,000 | -0,2 | XRF (pressed pellet) | no accreditation | info only |
| 28 | 0,007 | 0,007 | 0,007 | 0,000 | -0,8 | XRF (fusion) | no accreditation | |

RV_2025_01 Dolomite

Sample: FLX-2004 **Reprod. s.d.:** 0,004 %
Measurand: P2O5 **Repeat. s.d:** 0,001 %
Mean ± U(Mean): 0,013 ± 0,003 % **Range of tolerance:** 0,006 - 0,020 % (|z-score| ≤ 2,0)
Number of laboratories in calculation: 14 **Statistical method:** Q/Hampel



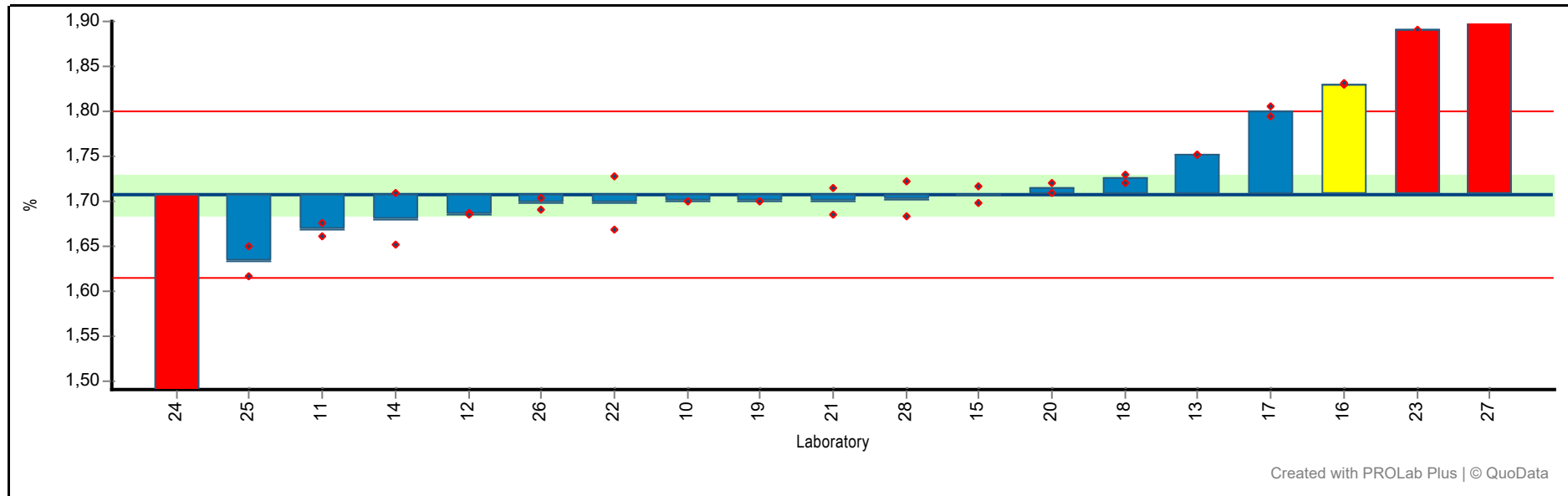
| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|---------|
| 10 | 0,030 | 0,030 | 0,030 | 0,000 | 4,8 | XRF (fusion) | no accreditation | |
| 11 | 0,010 | 0,011 | 0,010 | 0,001 | -0,7 | XRF (fusion) | ISO 17025 | |
| 12 | 0,013 | 0,013 | 0,013 | 0,000 | 0,0 | XRF (fusion) | ISO 17025 | |
| 13 | 0,013 | 0,013 | 0,013 | 0,000 | 0,0 | XRF (fusion) | ISO 17025 | |
| 14 | 0,020 | 0,015 | 0,018 | 0,004 | 1,3 | XRF (fusion) | no accreditation | |
| 15 | 0,015 | 0,015 | 0,015 | 0,000 | 0,6 | XRF (fusion) | no accreditation | |
| 16 | 0,011 | 0,012 | 0,011 | 0,001 | -0,4 | XRF (fusion) | no accreditation | |
| 17 | 0,021 | 0,021 | 0,021 | 0,000 | 2,3 | XRF (fusion) | ISO 17025 | |

RV_2025_01 Dolomite

| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|----------------------|------------------|---------------------------|
| 19 | 0,008 | 0,008 | 0,008 | 0,000 | -1,4 | XRF (fusion) | no accreditation | |
| 21 | 0,013 | 0,012 | 0,013 | 0,001 | -0,1 | XRF (fusion) | no accreditation | |
| 22 | 0,018 | 0,013 | 0,015 | 0,004 | 0,7 | XRF (fusion) | no accreditation | |
| 23 | 0,014 | | 0,014 | | 0,3 | XRF (pressed pellet) | no accreditation | info only |
| 25 | 0,011 | 0,010 | 0,010 | 0,001 | -0,7 | XRF (fusion) | no accreditation | |
| 26 | 0,011 | 0,011 | 0,011 | 0,000 | -0,5 | Other Method | ISO 17025 | ICP-OES, DIN EN ISO 11885 |
| 27 | 0,077 | 0,076 | 0,076 | 0,001 | 17,9 | XRF (pressed pellet) | no accreditation | info only |
| 28 | 0,012 | 0,012 | 0,012 | 0,000 | -0,3 | XRF (fusion) | no accreditation | |

RV_2025_01 Dolomite

Sample: FLX-2004 **Reprod. s.d.:** 0,046 %
Measurand: SiO2 **Repeat. s.d:** 0,013 %
Mean ± U(Mean): 1,708 ± 0,022 % **Range of tolerance:** 1,615 - 1,801 % (|z-score| ≤ 2,0)
Number of laboratories in calculation: 17 **Statistical method:** Q/Hampel



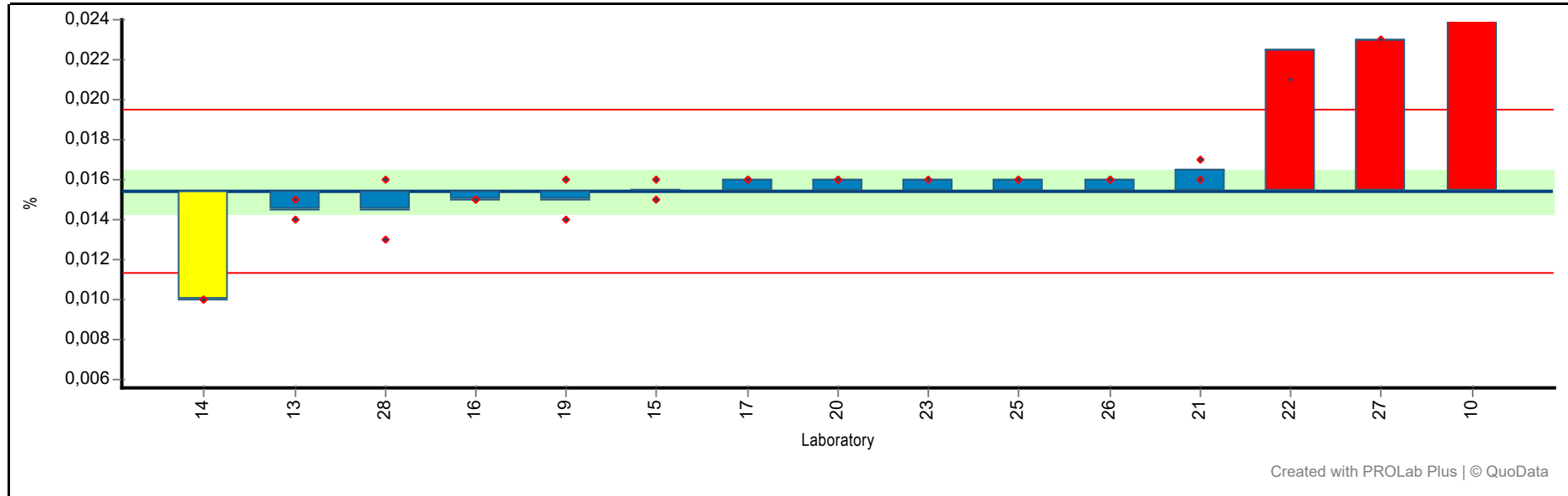
| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|---------|
| 10 | 1,700 | 1,700 | 1,700 | 0,000 | -0,2 | XRF (fusion) | no accreditation | |
| 11 | 1,675 | 1,662 | 1,668 | 0,009 | -0,8 | XRF (fusion) | ISO 17025 | |
| 12 | 1,687 | 1,685 | 1,686 | 0,001 | -0,5 | XRF (fusion) | ISO 17025 | |
| 13 | 1,751 | 1,752 | 1,752 | 0,001 | 0,9 | XRF (fusion) | ISO 17025 | |
| 14 | 1,651 | 1,710 | 1,680 | 0,042 | -0,6 | XRF (fusion) | no accreditation | |
| 15 | 1,716 | 1,699 | 1,708 | 0,012 | 0,0 | XRF (fusion) | no accreditation | |
| 16 | 1,829 | 1,832 | 1,831 | 0,002 | 2,6 | XRF (fusion) | no accreditation | |
| 17 | 1,805 | 1,794 | 1,800 | 0,008 | 2,0 | XRF (fusion) | ISO 17025 | |

RV_2025_01 Dolomite

| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|----------------------|------------------|---------------------------|
| 18 | 1,721 | 1,730 | 1,726 | 0,006 | 0,4 | XRF (fusion) | no accreditation | |
| 19 | 1,700 | 1,700 | 1,700 | 0,000 | -0,2 | XRF (fusion) | no accreditation | |
| 20 | 1,720 | 1,710 | 1,715 | 0,007 | 0,2 | XRF (fusion) | ISO 17025 | |
| 21 | 1,715 | 1,686 | 1,700 | 0,021 | -0,2 | XRF (fusion) | no accreditation | |
| 22 | 1,668 | 1,728 | 1,698 | 0,042 | -0,2 | XRF (fusion) | no accreditation | |
| 23 | 1,890 | | 1,890 | | 3,9 | XRF (pressed pellet) | no accreditation | info only |
| 24 | 1,300 | 1,400 | 1,350 | 0,071 | -7,7 | XRF (fusion) | no accreditation | |
| 25 | 1,650 | 1,616 | 1,633 | 0,024 | -1,6 | XRF (fusion) | no accreditation | |
| 26 | 1,704 | 1,691 | 1,698 | 0,009 | -0,2 | Other Method | ISO 17025 | ICP-OES, DIN EN ISO 11885 |
| 27 | 2,656 | 2,733 | 2,695 | 0,054 | 21,2 | XRF (pressed pellet) | no accreditation | info only |
| 28 | 1,722 | 1,683 | 1,703 | 0,028 | -0,1 | XRF (fusion) | no accreditation | |

RV_2025_01 Dolomite

Sample: FLX-2004 **Reprod. s.d.:** 0,002 %
Measurand: SrO **Repeat. s.d:** 0,001 %
Mean ± U(Mean): 0,015 ± 0,001 % **Range of tolerance:** 0,011 - 0,019 % (|z-score| ≤ 2,0)
Number of laboratories in calculation: 13 **Statistical method:** Q/Hampel



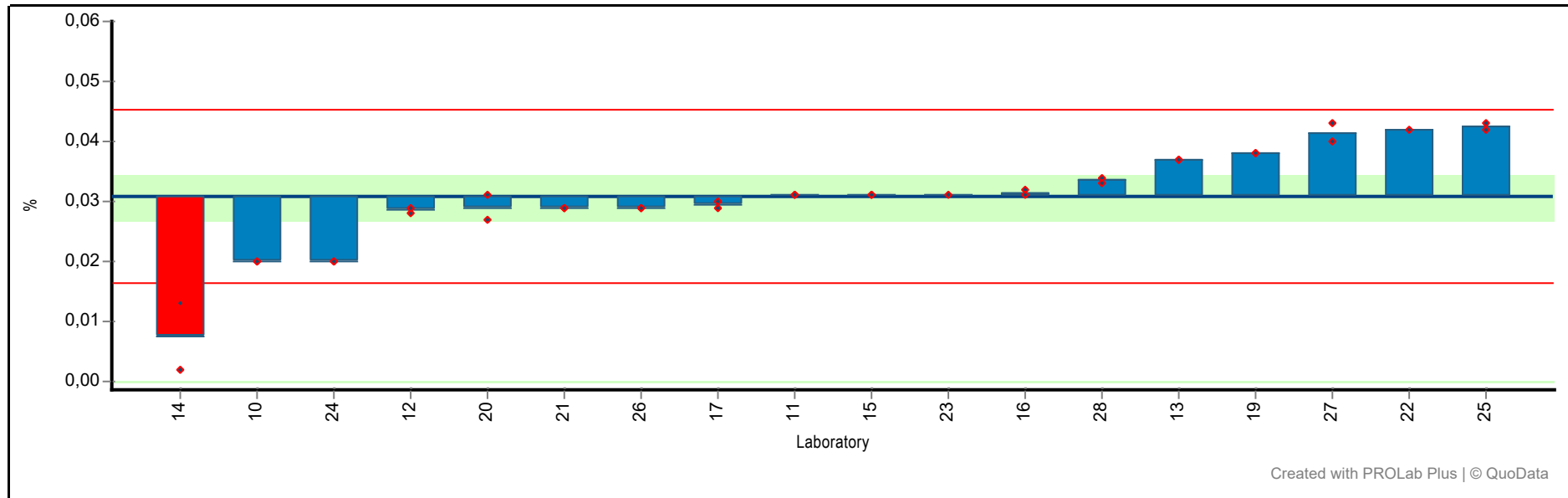
| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|---------|
| 10 | 0,110 | 0,110 | 0,110 | 0,000 | 46,6 | XRF (fusion) | no accreditation | |
| 13 | 0,014 | 0,015 | 0,014 | 0,001 | -0,4 | XRF (fusion) | ISO 17025 | |
| 14 | 0,010 | 0,010 | 0,010 | 0,000 | -2,7 | XRF (fusion) | no accreditation | |
| 15 | 0,015 | 0,016 | 0,015 | 0,001 | 0,0 | XRF (fusion) | no accreditation | |
| 16 | 0,015 | 0,015 | 0,015 | 0,000 | -0,2 | XRF (fusion) | no accreditation | |
| 17 | 0,016 | 0,016 | 0,016 | 0,000 | 0,3 | XRF (fusion) | ISO 17025 | |
| 19 | 0,014 | 0,016 | 0,015 | 0,001 | -0,2 | XRF (fusion) | no accreditation | |
| 20 | 0,016 | 0,016 | 0,016 | 0,000 | 0,3 | XRF (fusion) | ISO 17025 | |

RV_2025_01 Dolomite

| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|----------------------|------------------|---------------------------|
| 21 | 0,016 | 0,017 | 0,017 | 0,001 | 0,5 | XRF (fusion) | no accreditation | |
| 22 | 0,021 | 0,024 | 0,022 | 0,002 | 3,5 | XRF (fusion) | no accreditation | |
| 23 | 0,016 | | 0,016 | | 0,3 | XRF (pressed pellet) | no accreditation | info only |
| 25 | 0,016 | 0,016 | 0,016 | 0,000 | 0,3 | XRF (fusion) | no accreditation | |
| 26 | 0,016 | 0,016 | 0,016 | 0,000 | 0,3 | Other Method | ISO 17025 | ICP-OES, DIN EN ISO 11885 |
| 27 | 0,023 | 0,023 | 0,023 | 0,000 | 3,7 | XRF (pressed pellet) | no accreditation | info only |
| 28 | 0,016 | 0,013 | 0,014 | 0,002 | -0,4 | XRF (fusion) | no accreditation | |

RV_2025_01 Dolomite

Sample: FLX-2004 **Reprod. s.d.:** 0,007 %
Measurand: TiO2 **Repeat. s.d:** 0,001 %
Mean ± U(Mean): 0,031 ± 0,004 % **Range of tolerance:** 0,016 - 0,045 % (|z-score| <= 2,0)
Number of laboratories in calculation: 16 **Statistical method:** Q/Hampel



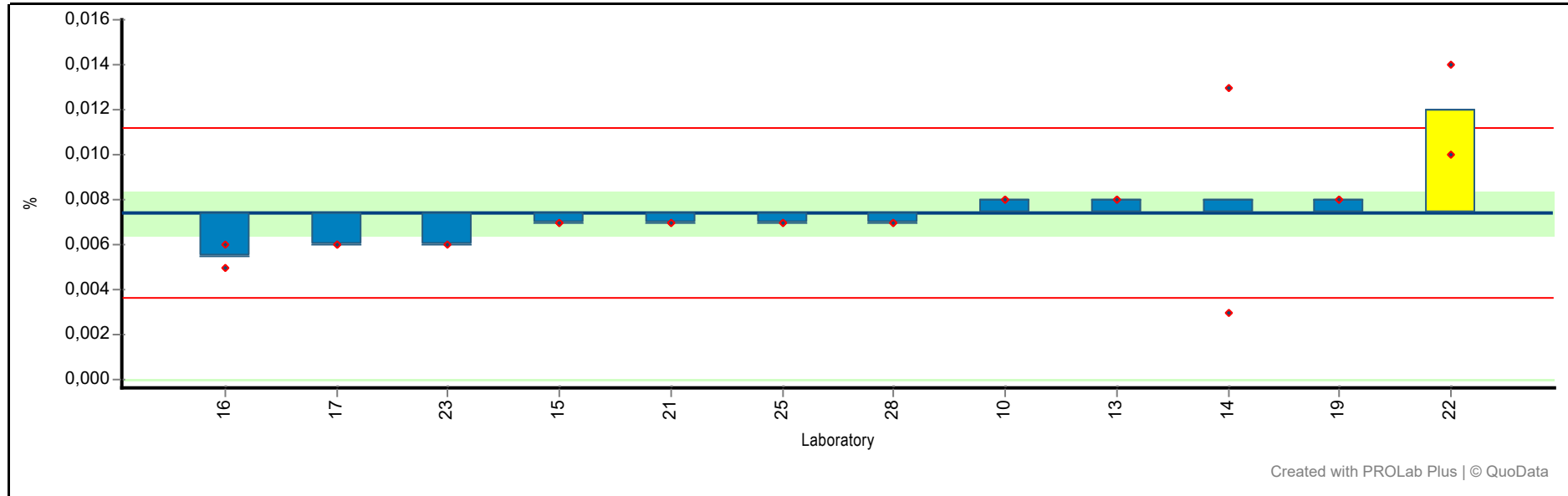
| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|---------|
| 10 | 0,020 | 0,020 | 0,020 | 0,000 | -1,5 | XRF (fusion) | no accreditation | |
| 11 | 0,031 | 0,031 | 0,031 | 0,000 | 0,0 | XRF (fusion) | ISO 17025 | |
| 12 | 0,028 | 0,029 | 0,029 | 0,001 | -0,3 | XRF (fusion) | ISO 17025 | |
| 13 | 0,037 | 0,037 | 0,037 | 0,000 | 0,9 | XRF (fusion) | ISO 17025 | |
| 14 | 0,002 | 0,013 | 0,007 | 0,008 | -3,2 | XRF (fusion) | no accreditation | |
| 15 | 0,031 | 0,031 | 0,031 | 0,000 | 0,0 | XRF (fusion) | no accreditation | |
| 16 | 0,032 | 0,031 | 0,032 | 0,001 | 0,1 | XRF (fusion) | no accreditation | |
| 17 | 0,030 | 0,029 | 0,029 | 0,001 | -0,2 | XRF (fusion) | ISO 17025 | |

RV_2025_01 Dolomite

| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|----------------------|------------------|---------------------------|
| 19 | 0,038 | 0,038 | 0,038 | 0,000 | 1,0 | XRF (fusion) | no accreditation | |
| 20 | 0,027 | 0,031 | 0,029 | 0,003 | -0,2 | XRF (fusion) | ISO 17025 | |
| 21 | 0,029 | 0,029 | 0,029 | 0,000 | -0,2 | XRF (fusion) | no accreditation | |
| 22 | | 0,042 | 0,042 | | 1,6 | XRF (fusion) | no accreditation | |
| 23 | 0,031 | | 0,031 | | 0,0 | XRF (pressed pellet) | no accreditation | info only |
| 24 | 0,020 | 0,020 | 0,020 | 0,000 | -1,5 | XRF (fusion) | no accreditation | |
| 25 | 0,043 | 0,042 | 0,042 | 0,001 | 1,6 | XRF (fusion) | no accreditation | |
| 26 | 0,029 | 0,029 | 0,029 | 0,000 | -0,2 | Other Method | ISO 17025 | ICP-OES, DIN EN ISO 11885 |
| 27 | 0,040 | 0,043 | 0,041 | 0,002 | 1,5 | XRF (pressed pellet) | no accreditation | info only |
| 28 | 0,034 | 0,033 | 0,034 | 0,001 | 0,4 | XRF (fusion) | no accreditation | |

RV_2025_01 Dolomite

Sample: FLX-2004 **Reprod. s.d.:** 0,002 %
Measurand: ZnO **Repeat. s.d:** 0,002 %
Mean ± U(Mean): 0,007 ± 0,001 % **Range of tolerance:** 0,004 - 0,011 % (|z-score| ≤ 2,0)
Number of laboratories in calculation: 11 **Statistical method:** Q/Hampel



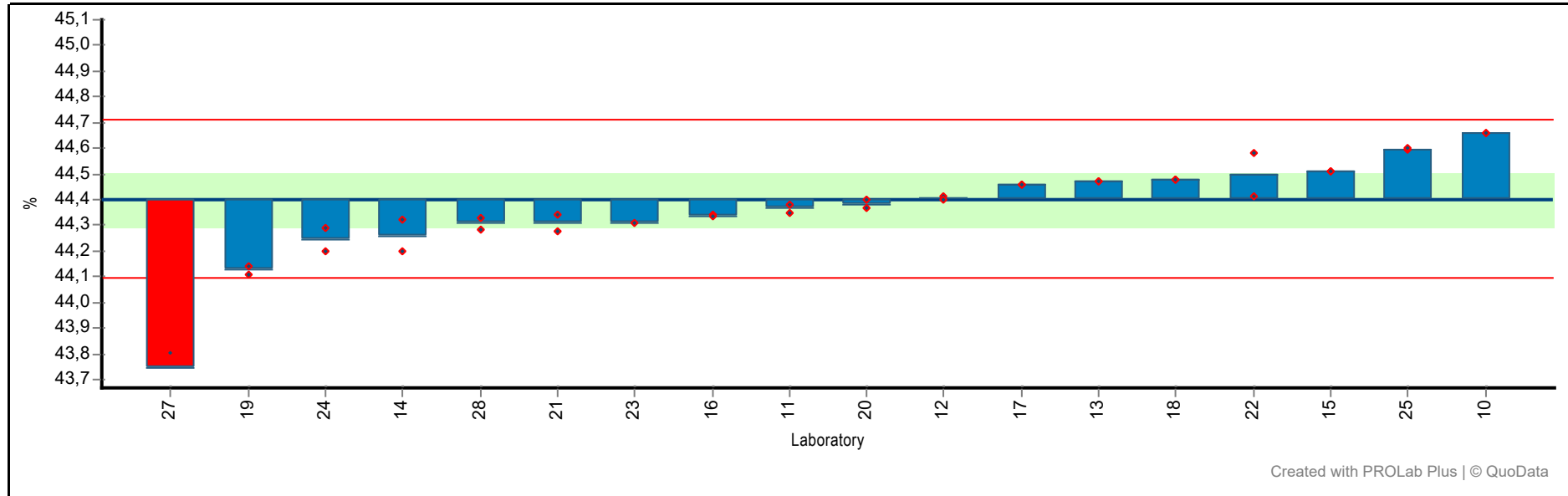
| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|---------|
| 10 | 0,008 | 0,008 | 0,008 | 0,000 | 0,3 | XRF (fusion) | no accreditation | |
| 13 | 0,008 | 0,008 | 0,008 | 0,000 | 0,3 | XRF (fusion) | ISO 17025 | |
| 14 | 0,013 | 0,003 | 0,008 | 0,007 | 0,3 | XRF (fusion) | no accreditation | |
| 15 | 0,007 | 0,007 | 0,007 | 0,000 | -0,2 | XRF (fusion) | no accreditation | |
| 16 | 0,006 | 0,005 | 0,005 | 0,001 | -1,0 | XRF (fusion) | no accreditation | |
| 17 | 0,006 | 0,006 | 0,006 | 0,000 | -0,7 | XRF (fusion) | ISO 17025 | |
| 19 | 0,008 | 0,008 | 0,008 | 0,000 | 0,3 | XRF (fusion) | no accreditation | |
| 21 | 0,007 | 0,007 | 0,007 | 0,000 | -0,2 | XRF (fusion) | no accreditation | |

RV_2025_01 Dolomite

| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|----------------------|------------------|-----------|
| 22 | 0,010 | 0,014 | 0,012 | 0,003 | 2,4 | XRF (fusion) | no accreditation | |
| 23 | 0,006 | | 0,006 | | -0,7 | XRF (pressed pellet) | no accreditation | info only |
| 25 | 0,007 | 0,007 | 0,007 | 0,000 | -0,2 | XRF (fusion) | no accreditation | |
| 28 | 0,007 | 0,007 | 0,007 | 0,000 | -0,2 | XRF (fusion) | no accreditation | |

RV_2025_01 Dolomite

Sample: FLX-2004 **Reprod. s.d.:** 0,155 %
Measurand: LOI **Repeat. s.d:** 0,026 %
Mean ± U(Mean): 44,402 ± 0,102 % **Range of tolerance:** 44,093 - 44,711 % (|z-score| ≤ 2,0)
Number of laboratories in calculation: 16 **Statistical method:** Q/Hampel



| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|---------------|
| 10 | 44,660 | 44,660 | 44,660 | 0,000 | 1,7 | Other Method | no accreditation | LOI 2h 1050°C |
| 11 | 44,380 | 44,350 | 44,365 | 0,021 | -0,2 | Other Method | ISO 17025 | LOI 2h 1050°C |
| 12 | 44,410 | 44,400 | 44,405 | 0,007 | 0,0 | Other Method | no accreditation | LOI 2h 1050°C |
| 13 | 44,470 | 44,470 | 44,470 | 0,000 | 0,4 | Other Method | no accreditation | LOI 2h 1050°C |
| 14 | 44,322 | 44,197 | 44,260 | 0,088 | -0,9 | Other Method | no accreditation | LOI 2h 1050°C |
| 15 | 44,510 | 44,510 | 44,510 | 0,000 | 0,7 | Other Method | no accreditation | LOI 2h 1050°C |
| 16 | 44,339 | 44,333 | 44,336 | 0,004 | -0,4 | Other Method | no accreditation | LOI 2h 1050°C |
| 17 | 44,460 | 44,460 | 44,460 | 0,000 | 0,4 | Other Method | ISO 17025 | LOI 2h 1050°C |

RV_2025_01 Dolomite

| Lab code | Conc. 1 | Conc. 2 | Lab mean | s.d. | z-score | Analytical method | Accreditation | Comment |
|----------|---------|---------|----------|-------|---------|-------------------|------------------|-----------------------|
| 18 | 44,480 | 44,480 | 44,480 | 0,000 | 0,5 | Other Method | no accreditation | LOI 2h 1050°C |
| 19 | 44,110 | 44,140 | 44,125 | 0,021 | -1,8 | Other Method | no accreditation | Thermogravimetric |
| 20 | 44,365 | 44,400 | 44,383 | 0,025 | -0,1 | Other Method | ISO 17025 | LOI 2h 1050°C |
| 21 | 44,340 | 44,280 | 44,310 | 0,042 | -0,6 | Other Method | no accreditation | Thermogravimetric |
| 22 | 44,410 | 44,580 | 44,495 | 0,120 | 0,6 | Other Method | no accreditation | LOI 2h 1050°C |
| 23 | 44,310 | | 44,310 | | -0,6 | Other Method | no accreditation | calculated; info only |
| 24 | 44,200 | 44,290 | 44,245 | 0,064 | -1,0 | Other Method | no accreditation | LOI 2h 1050°C |
| 25 | 44,597 | 44,598 | 44,597 | 0,001 | 1,3 | Other Method | no accreditation | LOI 2h 1050°C |
| 27 | 43,801 | 43,695 | 43,748 | 0,075 | -4,2 | Other Method | no accreditation | calculated; info only |
| 28 | 44,328 | 44,286 | 44,307 | 0,030 | -0,6 | Other Method | no accreditation | LOI 1h 950°C |

Ring test RV_2025_01 Dolomite

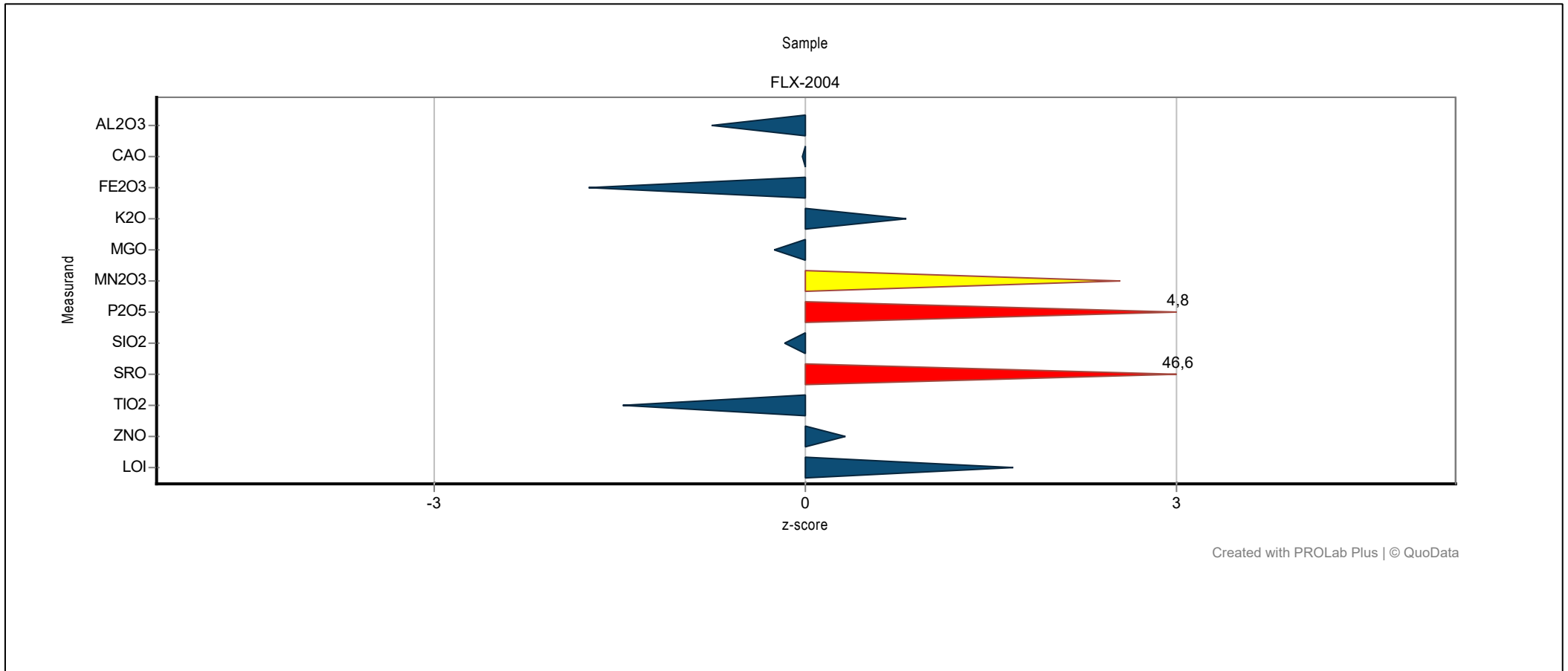
Survey of scores

| Lab code | AL2O3 | CAO | FE2O3 | K2O | MGO | MN2O3 | P2O5 | SiO2 | SRO | TiO2 | ZNO | LOI |
|----------|-------|------|-------|------|------|-------|------|------|------|------|------|------|
| 10 | -0,8 | 0,0 | -1,8 | 0,8 | -0,3 | 2,5 | 4,8 | -0,2 | 46,6 | -1,5 | 0,3 | 1,7 |
| 11 | -0,7 | -1,0 | 0,3 | -1,6 | 3,3 | | -0,7 | -0,8 | | 0,0 | | -0,2 |
| 12 | -0,1 | -0,3 | 0,3 | 0,1 | -0,4 | -0,2 | 0,0 | -0,5 | | -0,3 | | 0,0 |
| 13 | 0,4 | 1,3 | 0,5 | -3,1 | 0,6 | 0,1 | 0,0 | 0,9 | -0,4 | 0,9 | 0,3 | 0,4 |
| 14 | -1,7 | -3,0 | 0,3 | -2,3 | 11,8 | 1,5 | 1,3 | -0,6 | -2,7 | -3,2 | 0,3 | -0,9 |
| 15 | 0,7 | -0,5 | 0,1 | -2,5 | -0,2 | 0,4 | 0,6 | 0,0 | 0,0 | 0,0 | -0,2 | 0,7 |
| 16 | 3,8 | 2,0 | -1,0 | 0,1 | 7,9 | -0,5 | -0,4 | 2,6 | -0,2 | 0,1 | -1,0 | -0,4 |
| 17 | 0,7 | -0,8 | -1,0 | 1,1 | 0,6 | 0,6 | 2,3 | 2,0 | 0,3 | -0,2 | -0,7 | 0,4 |
| 18 | -0,4 | -0,2 | -0,6 | | 0,4 | | | 0,4 | | | | 0,5 |
| 19 | -1,6 | 2,0 | 0,0 | 0,6 | -0,5 | -0,9 | -1,4 | -0,2 | -0,2 | 1,0 | 0,3 | -1,8 |
| 20 | 0,1 | -0,3 | 0,7 | 0,7 | 0,2 | | | 0,2 | 0,3 | -0,2 | | -0,1 |
| 21 | 0,2 | 0,7 | -0,3 | 0,8 | -0,3 | -1,1 | -0,1 | -0,2 | 0,5 | -0,2 | -0,2 | -0,6 |
| 22 | 0,7 | -0,5 | 1,6 | 0,7 | -0,5 | | 0,7 | -0,2 | 3,5 | 1,6 | 2,4 | 0,6 |
| 23 | 0,3 | -0,3 | 0,7 | 1,3 | -0,6 | -0,2 | 0,3 | 3,9 | 0,3 | 0,0 | -0,7 | -0,6 |
| 24 | 1,7 | 0,5 | 1,5 | -0,3 | -1,0 | | | -7,7 | | -1,5 | | -1,0 |
| 25 | 0,4 | -0,2 | 0,0 | 1,1 | -0,1 | -0,5 | -0,7 | -1,6 | 0,3 | 1,6 | -0,2 | 1,3 |
| 26 | -0,4 | -0,7 | -0,4 | | 0,6 | -0,2 | -0,5 | -0,2 | 0,3 | -0,2 | | |
| 27 | 7,5 | 0,3 | 3,9 | 3,3 | -8,7 | -0,2 | 17,9 | 21,2 | 3,7 | 1,5 | | -4,2 |
| 28 | -0,1 | 0,6 | -0,3 | 0,2 | -0,4 | -0,8 | -0,3 | -0,1 | -0,4 | 0,4 | -0,2 | -0,6 |

RV_2025_01 Dolomite

Laboratory chart of z-scores

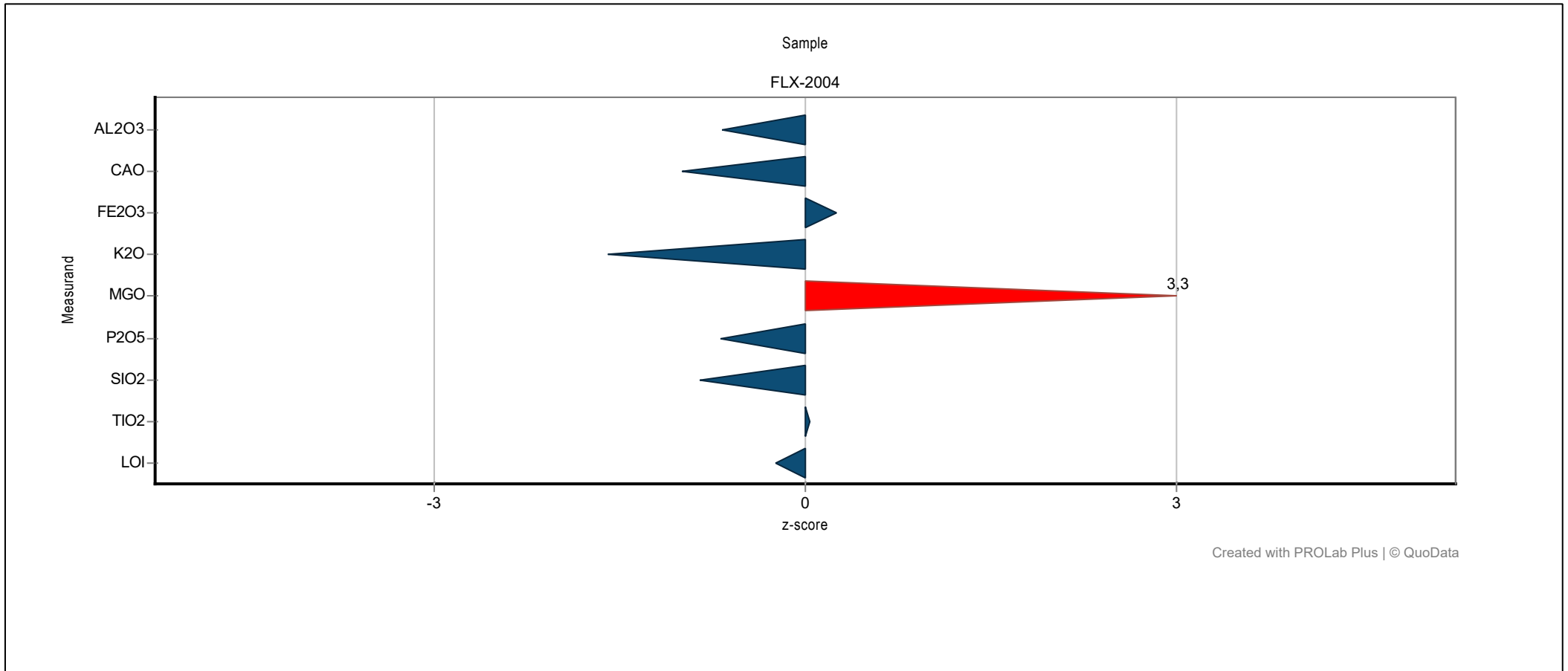
Laboratory: 10



RV_2025_01 Dolomite

Laboratory chart of z-scores

Laboratory: 11

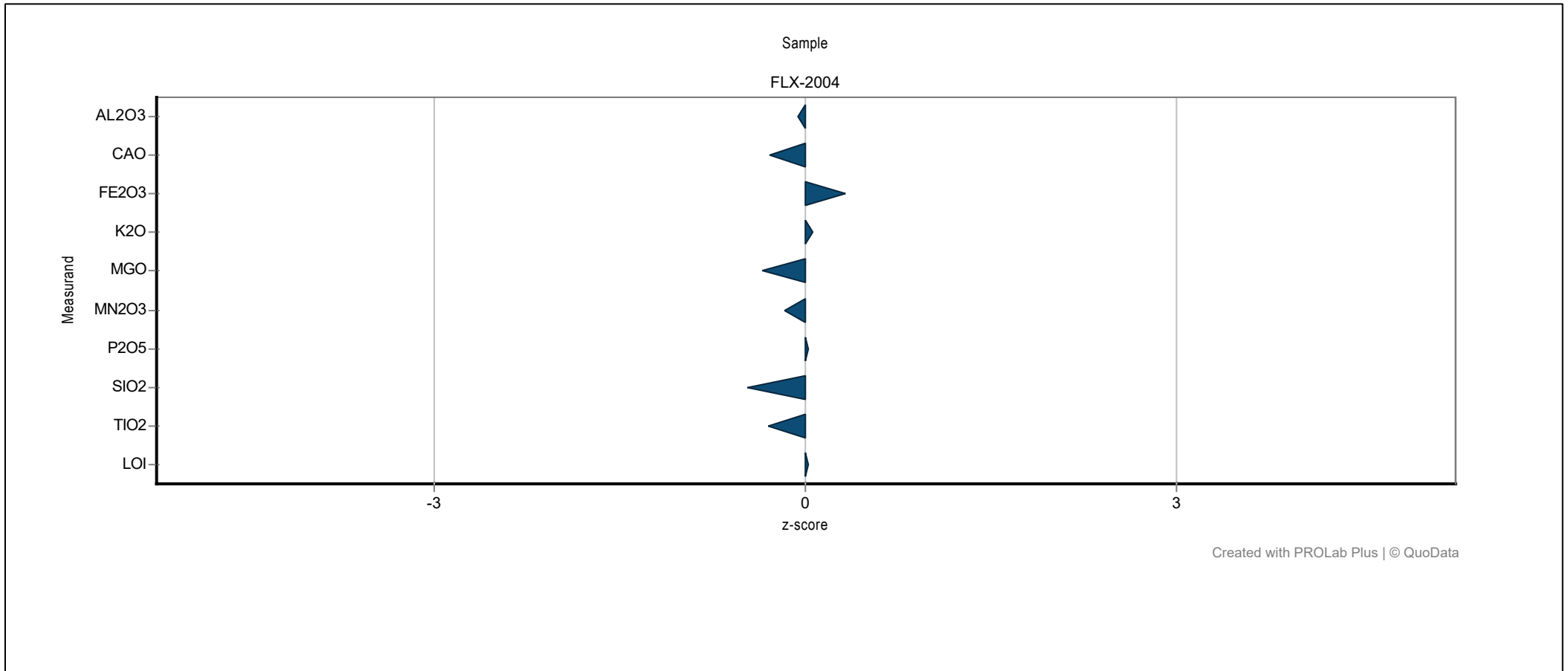


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RV_2025_01 Dolomite

Laboratory chart of z-scores

Laboratory: 12

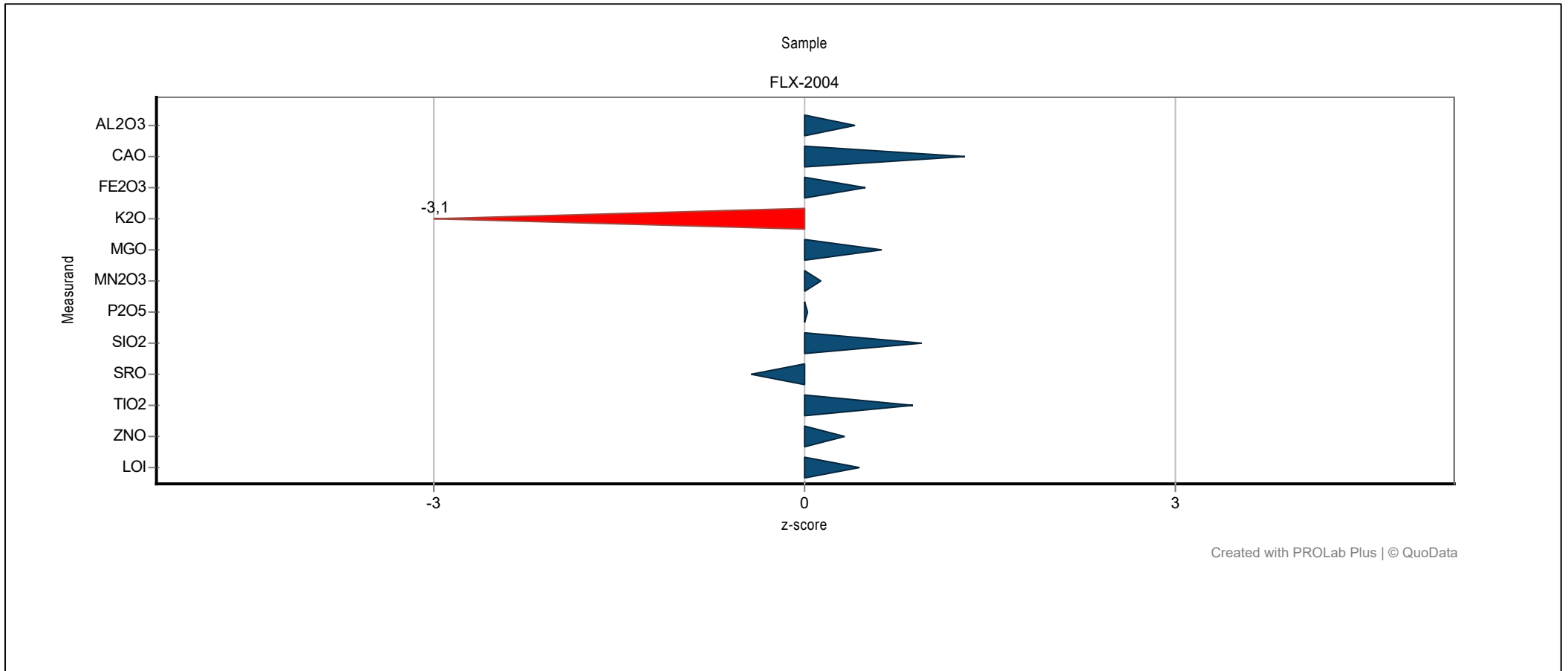


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RV_2025_01 Dolomite

Laboratory chart of z-scores

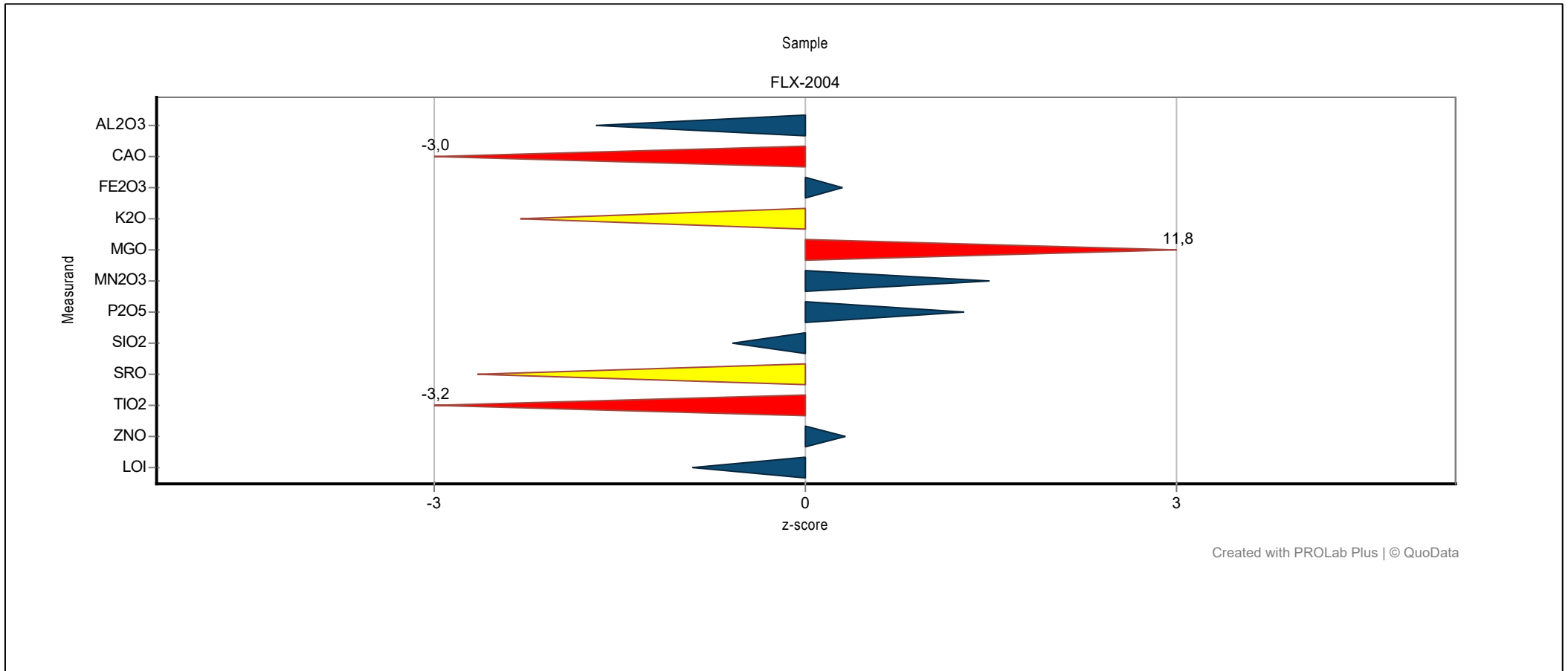
Laboratory: 13



RV_2025_01 Dolomite

Laboratory chart of z-scores

Laboratory: 14

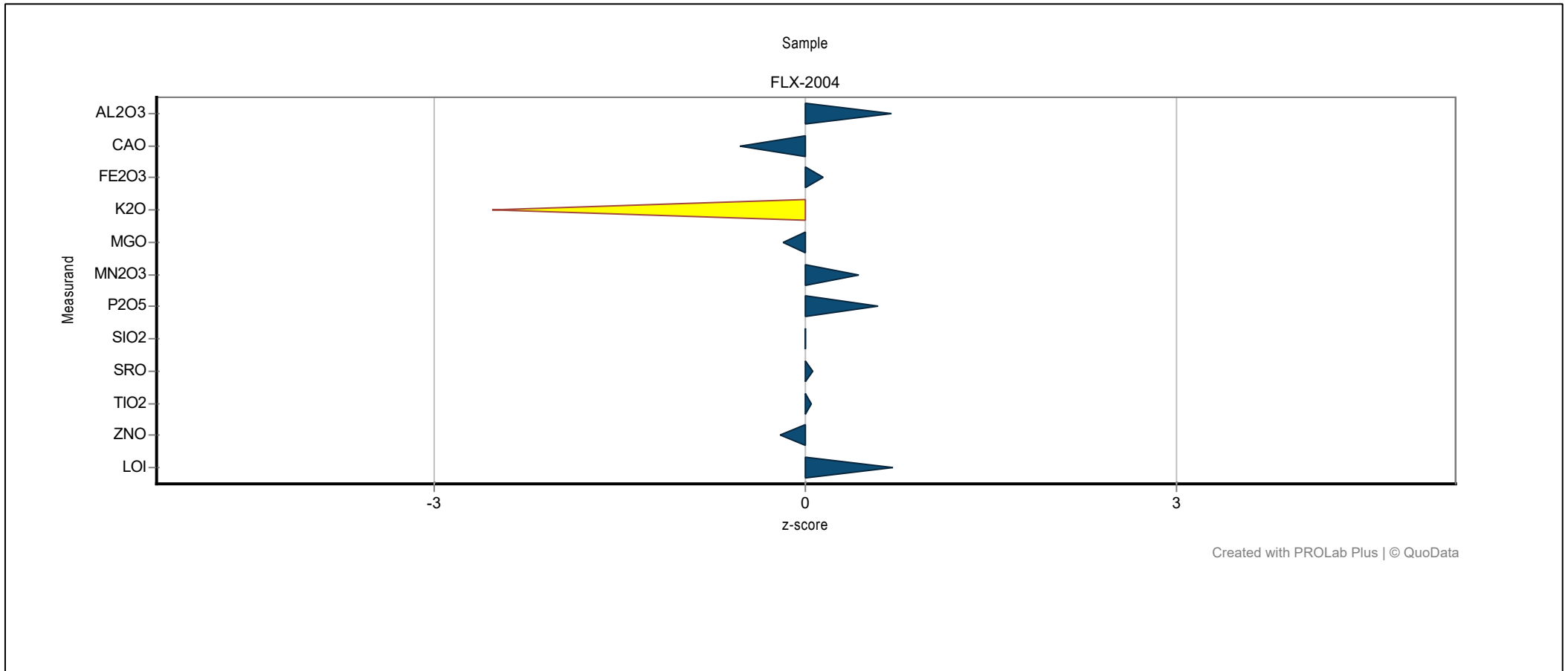


06.02.2025

RV_2025_01 Dolomite

Laboratory chart of z-scores

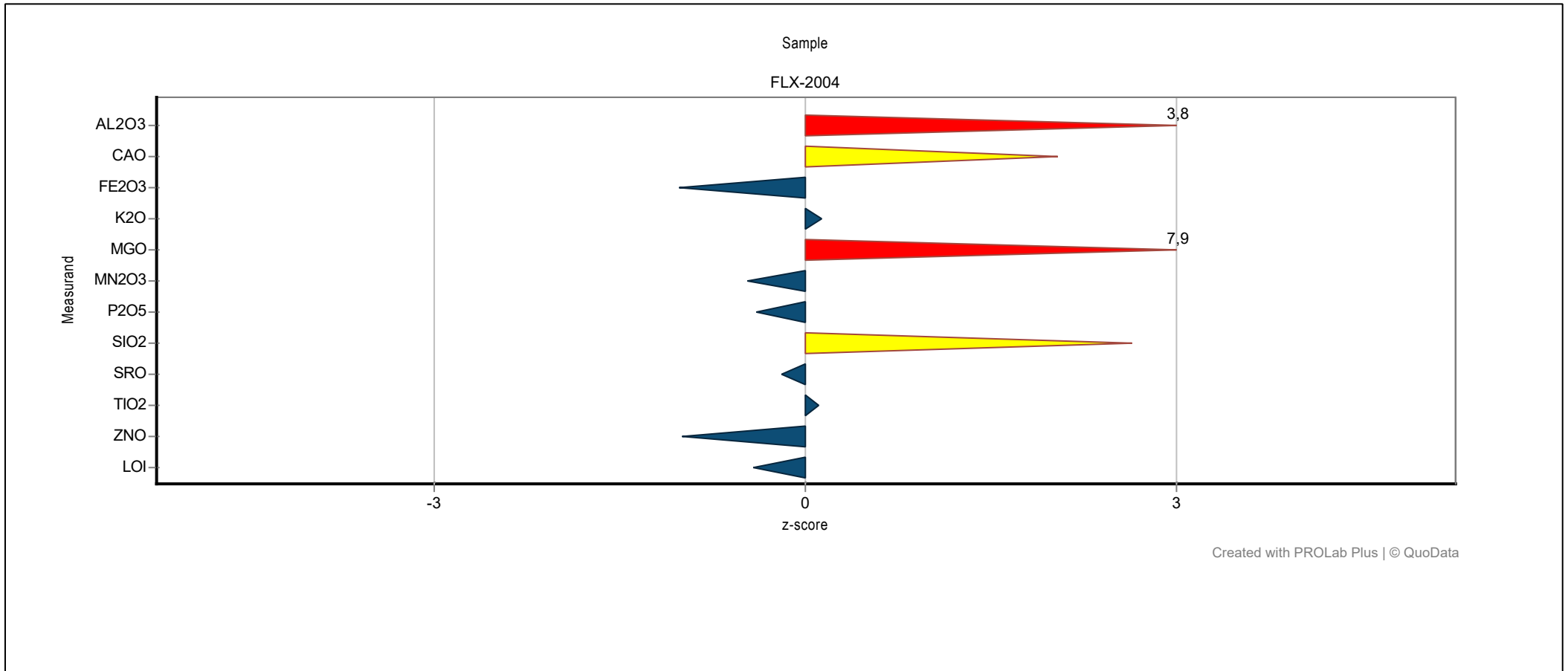
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RV_2025_01 Dolomite

Laboratory chart of z-scores

Laboratory: 16

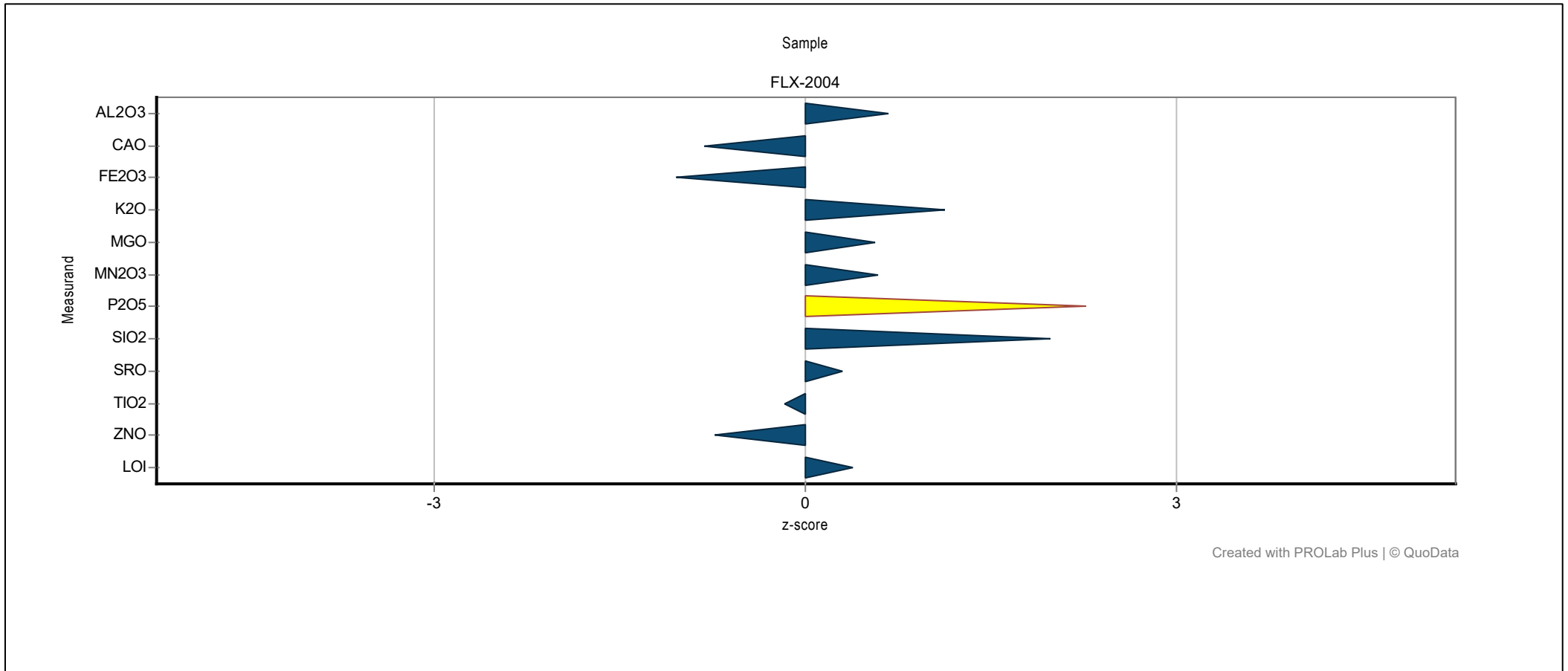


06.02.2025

RV_2025_01 Dolomite

Laboratory chart of z-scores

Laboratory: 17

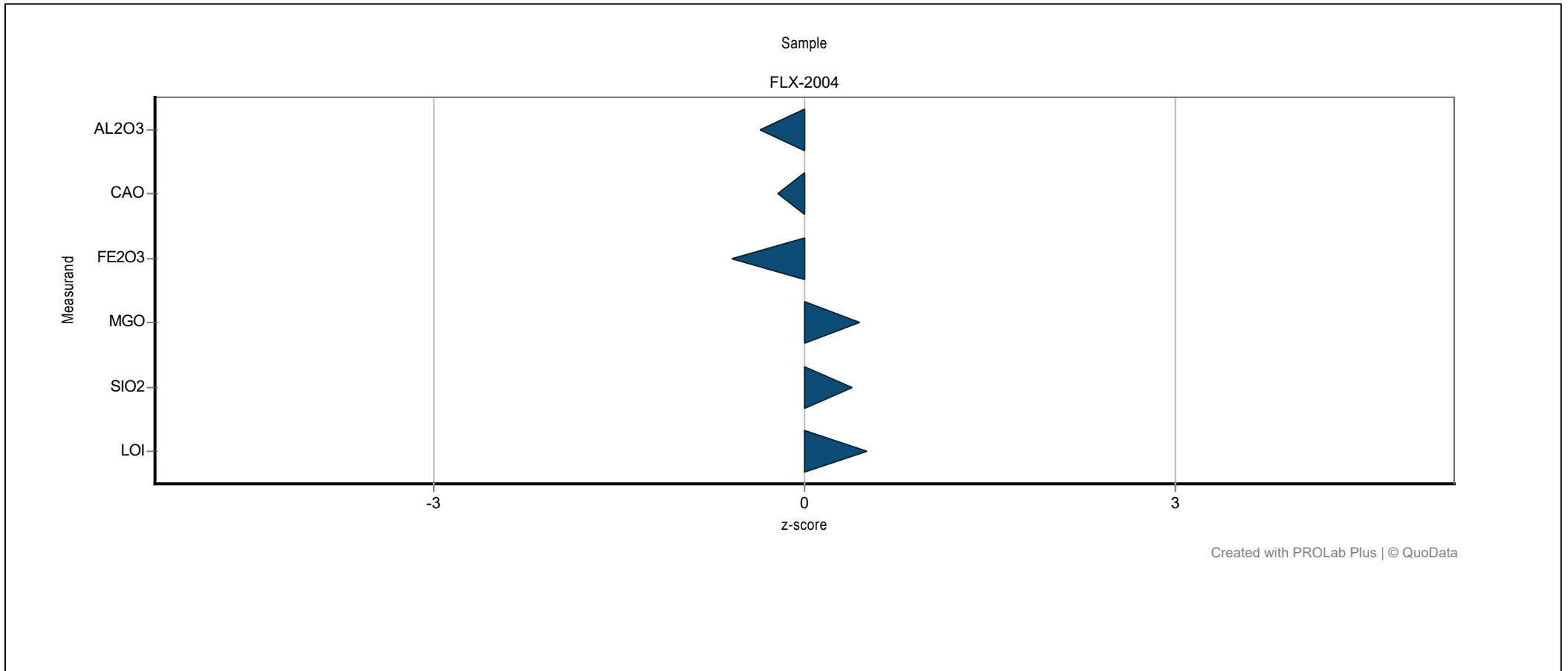


06.02.2025

RV_2025_01 Dolomite

Laboratory chart of z-scores

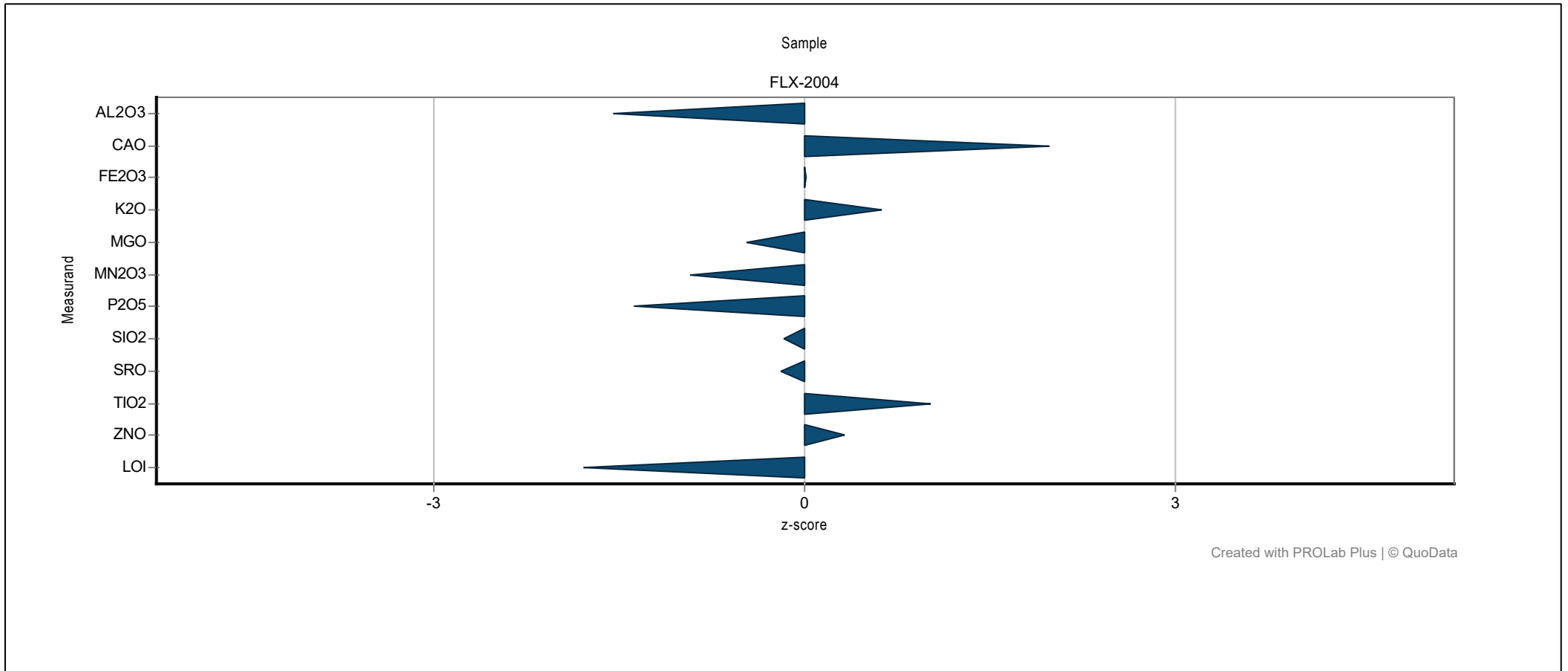
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RV_2025_01 Dolomite

Laboratory chart of z-scores

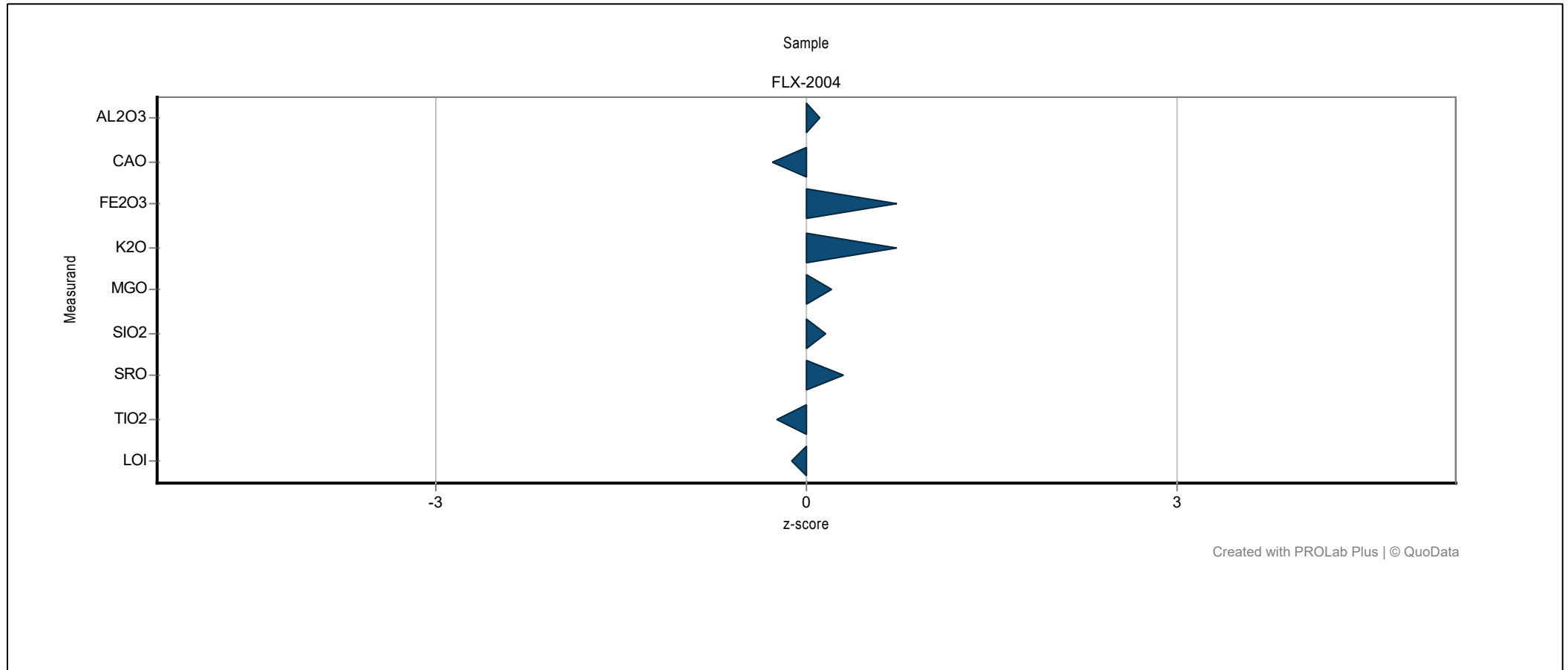
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RV_2025_01 Dolomite

Laboratory chart of z-scores

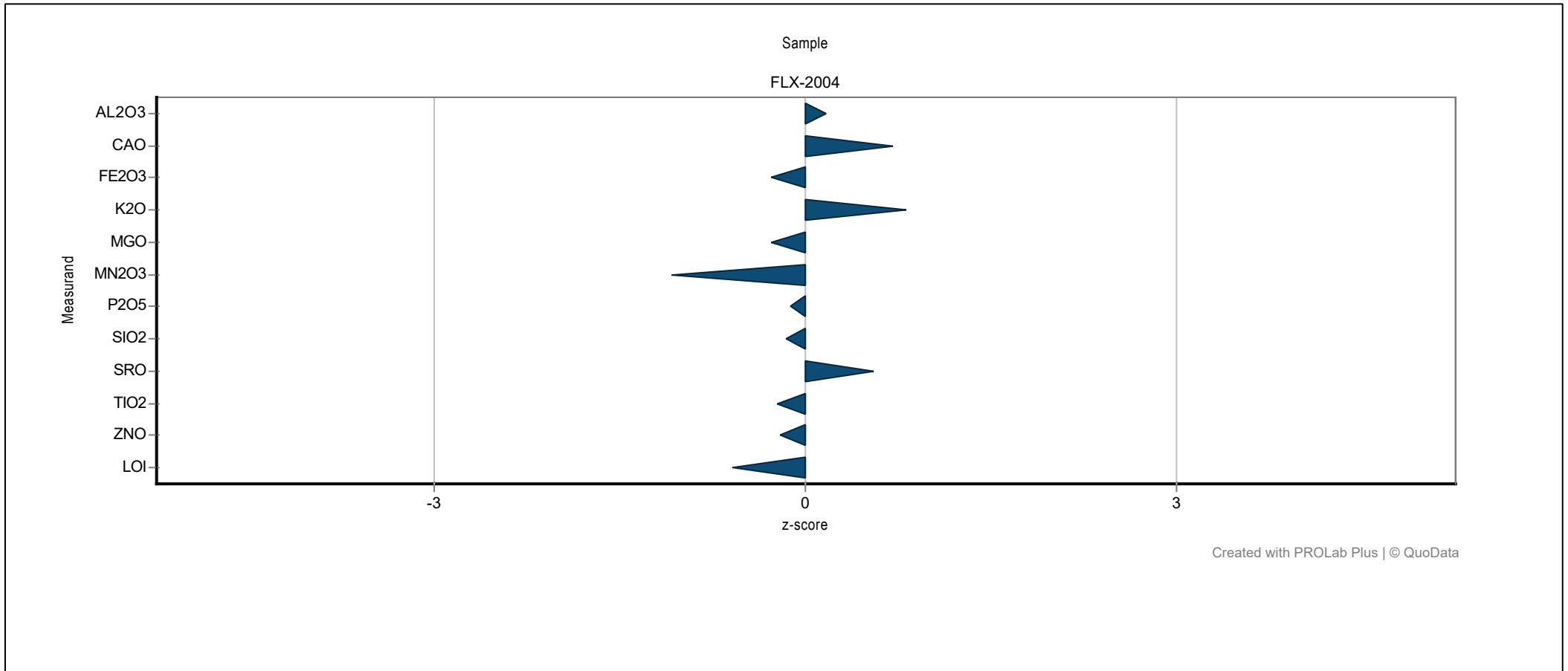
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RV_2025_01 Dolomite

Laboratory chart of z-scores

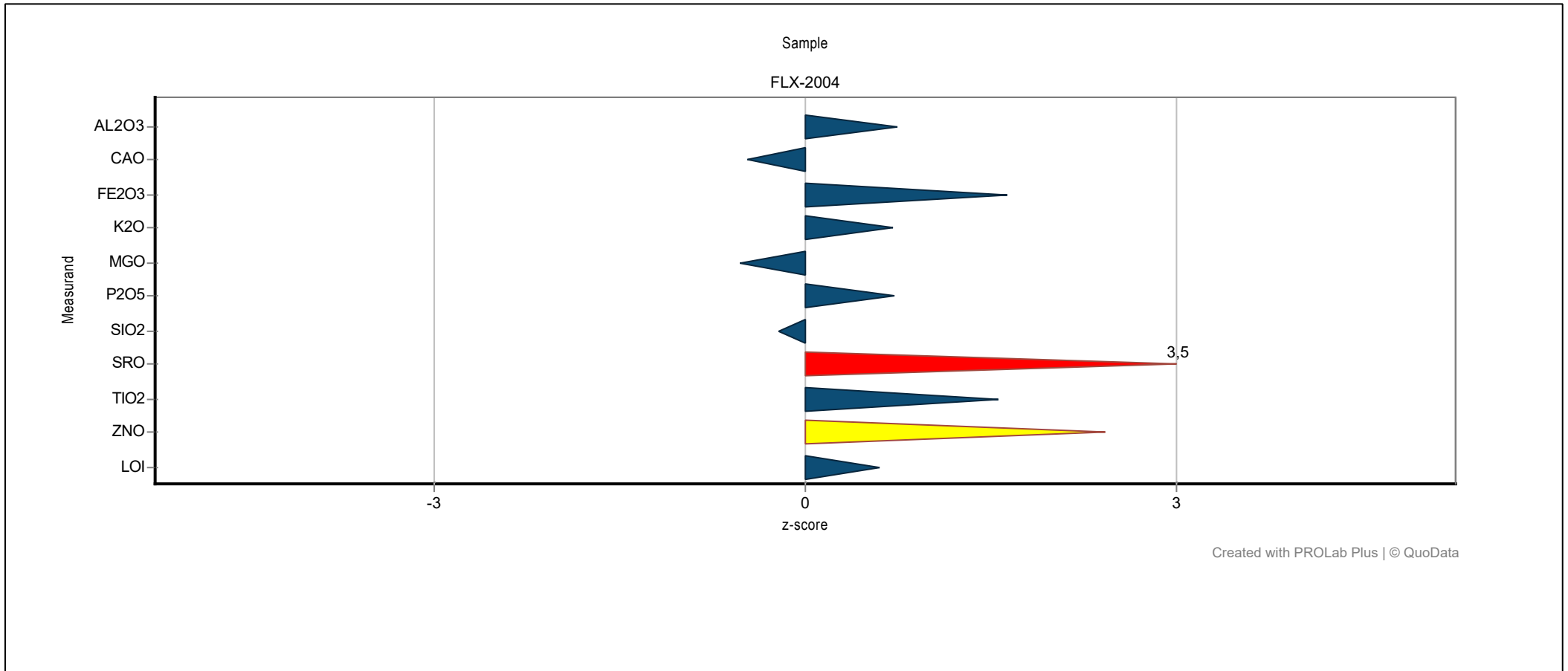
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RV_2025_01 Dolomite

Laboratory chart of z-scores

Laboratory: 22

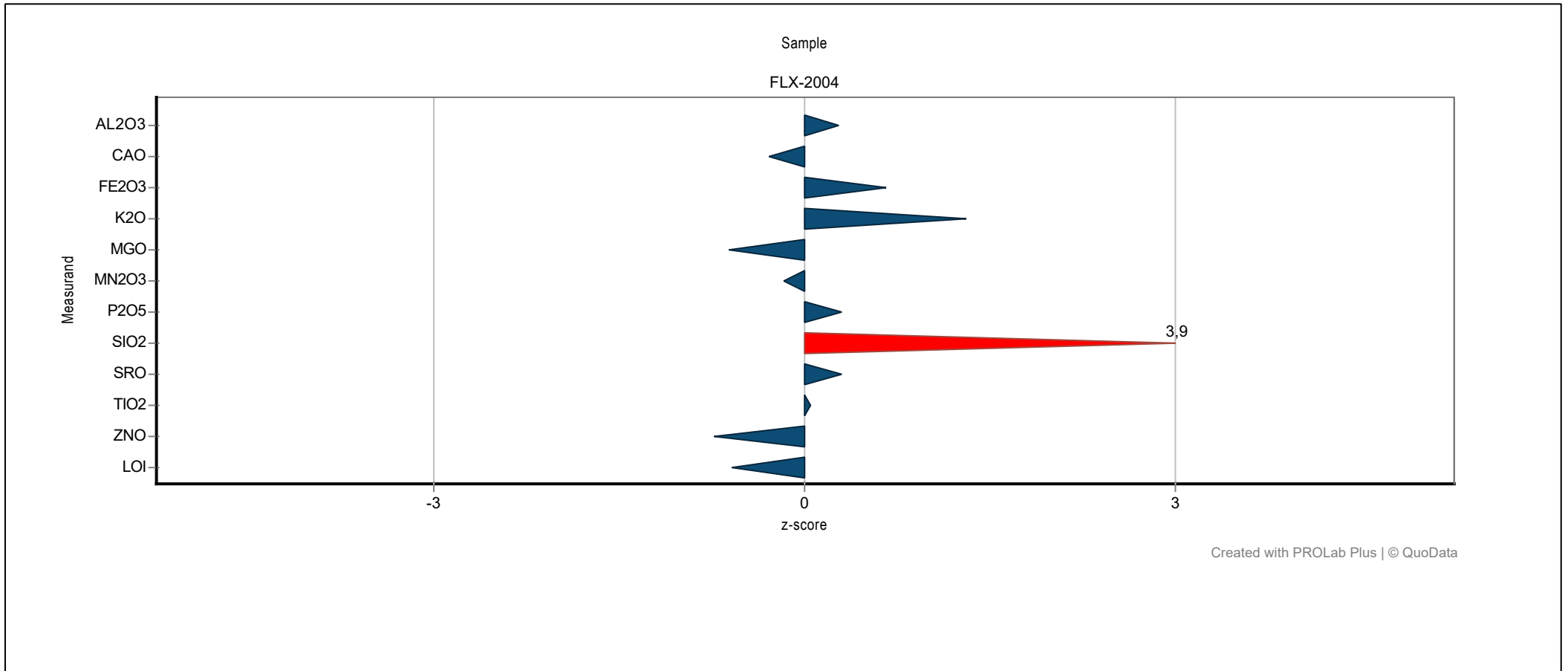


06.02.2025

RV_2025_01 Dolomite

Laboratory chart of z-scores

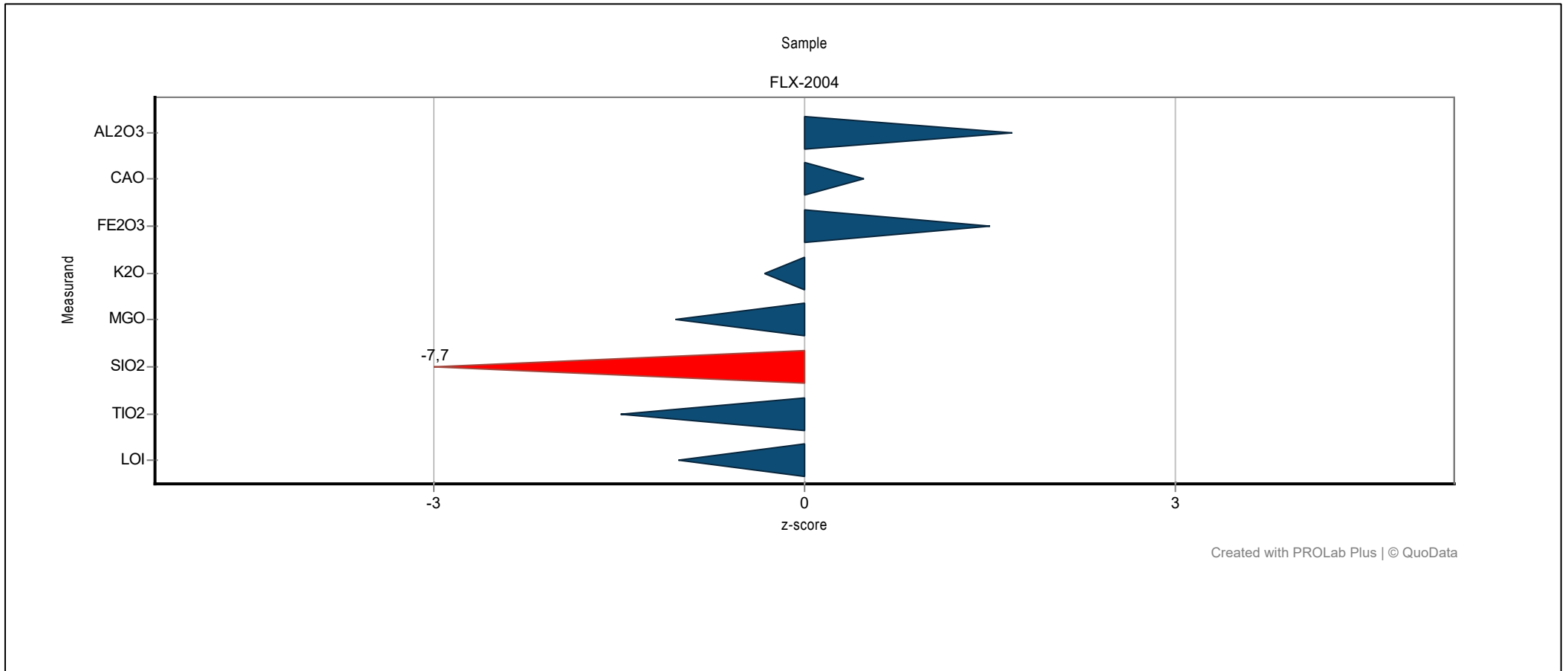
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RV_2025_01 Dolomite

Laboratory chart of z-scores

Laboratory: 24

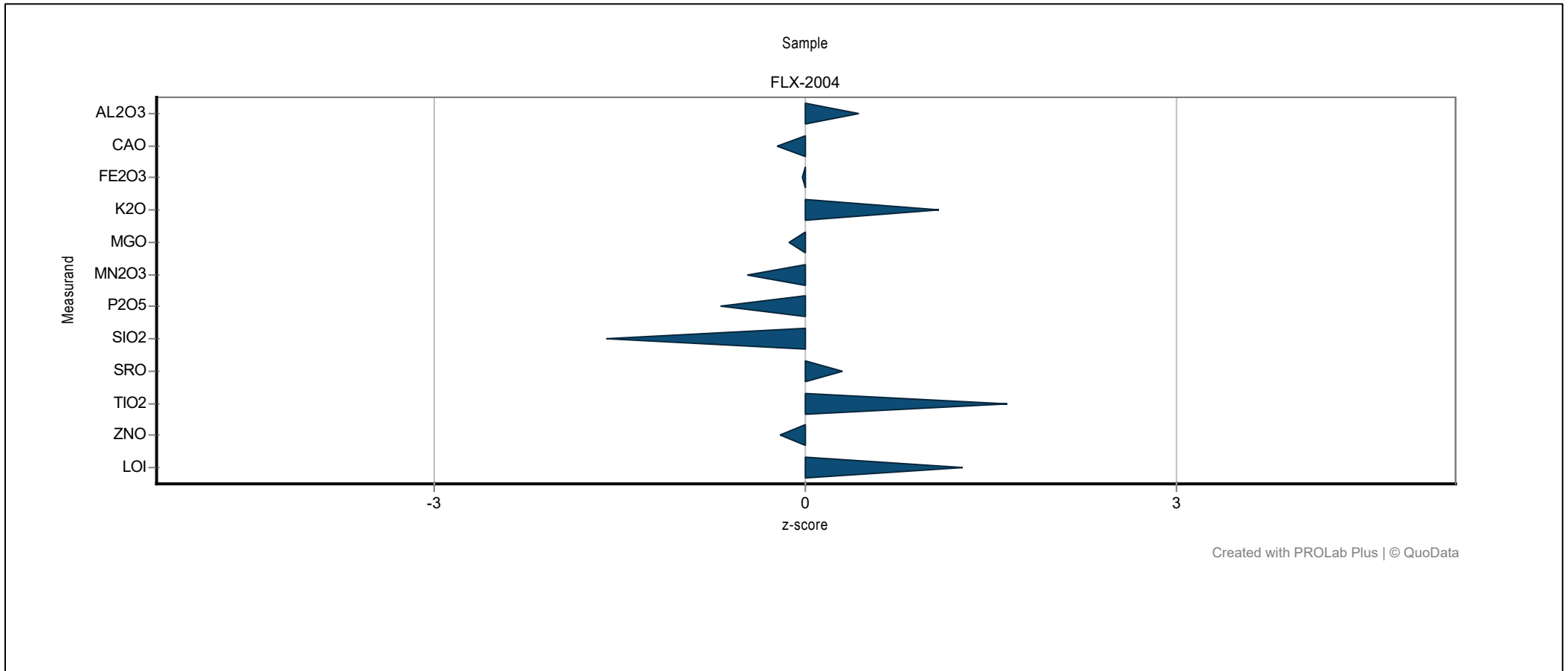


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RV_2025_01 Dolomite

Laboratory chart of z-scores

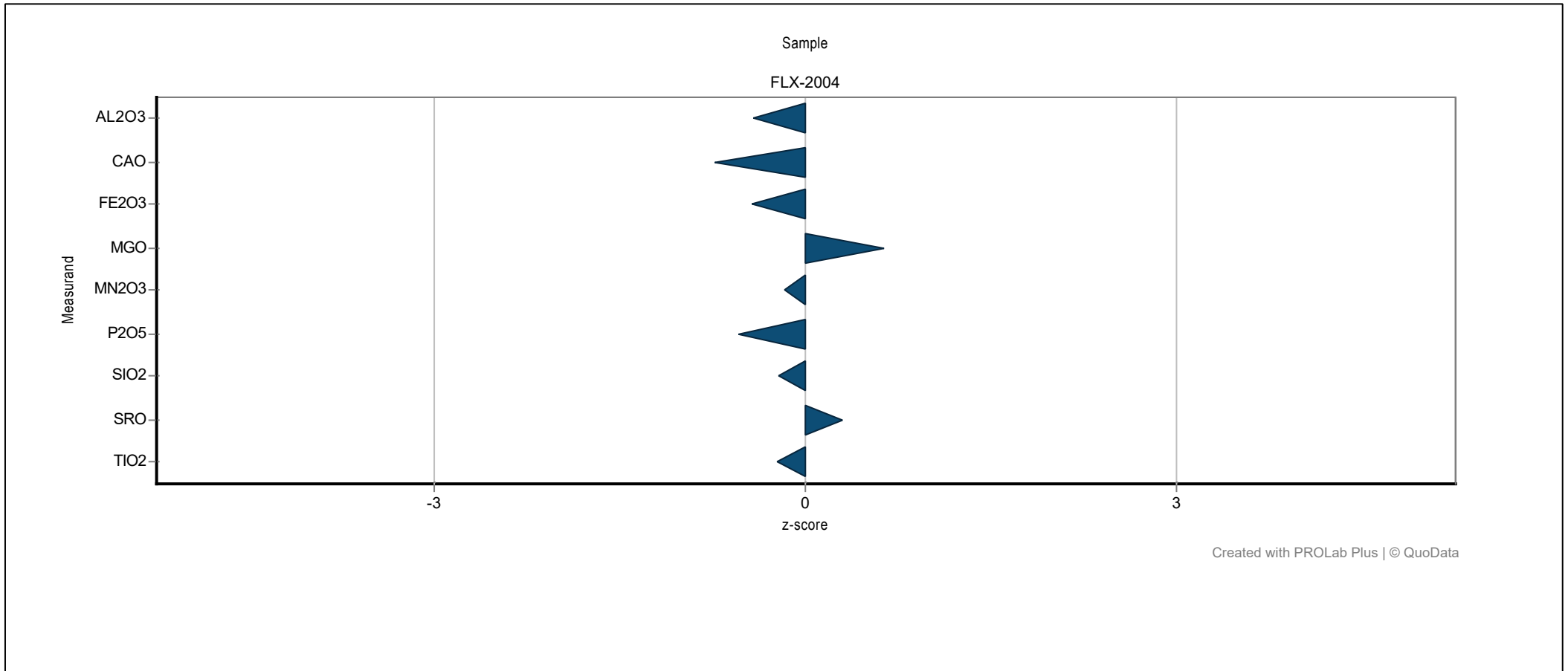
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RV_2025_01 Dolomite

Laboratory chart of z-scores

Laboratory: 26

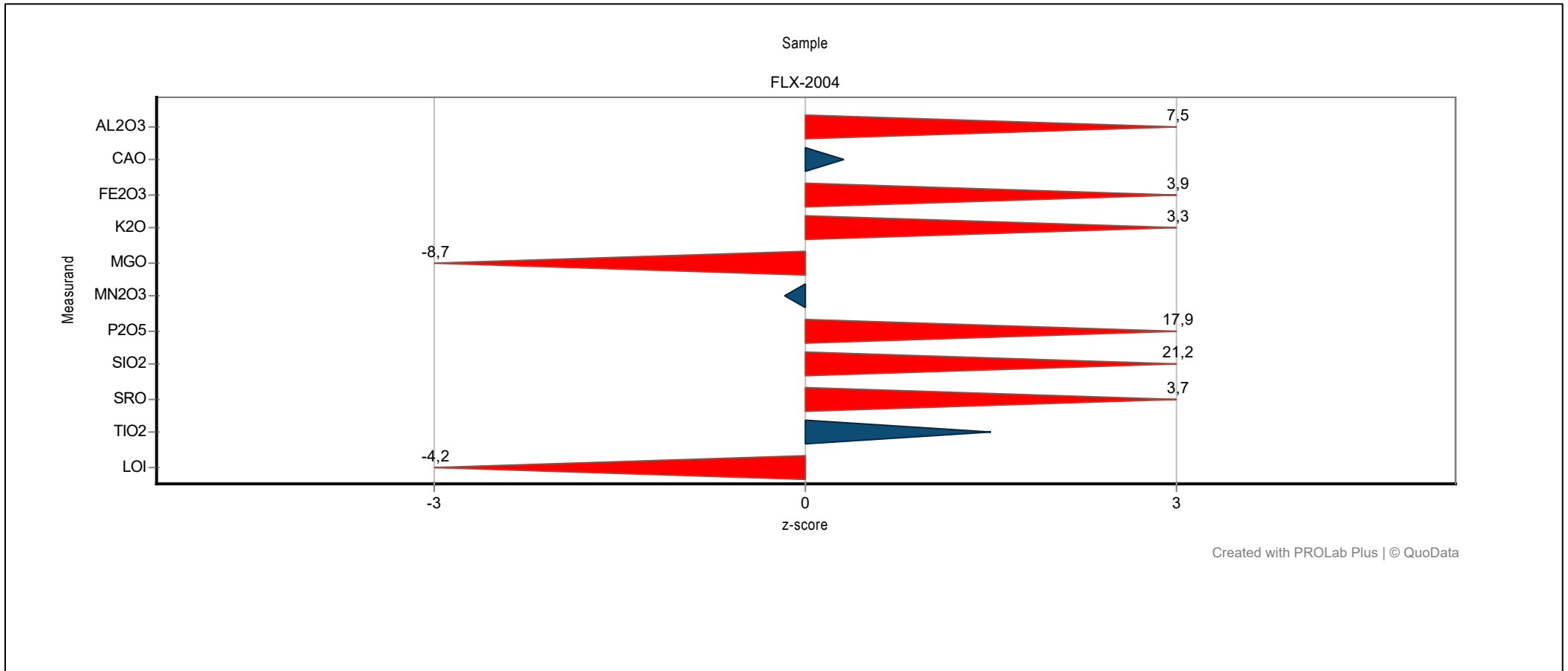


06.02.2025

RV_2025_01 Dolomite

Laboratory chart of z-scores

Laboratory: 27



RV_2025_01 Dolomite

Laboratory chart of z-scores

Laboratory: 28

