



Freie und Hansestadt Hamburg
Institut für Hygiene und Umwelt

Trinkwasser Ringversuch 02

– LHKW/Benzol –

1,2-Dichlorethan

Tetrachlorethen

Trichlorethen

Trichlormethan

Bromdichlormethan

Dibromchlormethan

Tribrommethan

Benzol

Vinylchlorid

November 2018

Abschlussbericht

Hamburg, 28. Februar 2019

Revisionstabelle

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| 1 | 28.02.2019 | Abschlussbericht |

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1. Allgemeines

Der Ringversuch O2 dient der Überprüfung der Analytik der Parameter LHKW/Benzol nach Anlage 2 der TrinkwV 2001.

2. Teilnehmerzahlen

Insgesamt haben 134 Labore an dem Ringversuch teilgenommen, 131 Labore haben Ergebnisse abgegeben, 3 Labore haben keine Ergebnisse zugesendet.

3. Ringversuchsdesign

Jeder Teilnehmer erhielt 3 x 2 Proben für eine Doppelbestimmung der unten genannten Parameter in 250 mL Braunglasflaschen mit Schliffstopfen. Die Proben wurden durch Kühlung und durch Zugabe von H₂SO₄ (pH 2,1) konserviert. Es wurden 6 Konzentrationsniveaus hergestellt. Die Verteilung der Niveaus auf die Teilnehmer erfolgte zufällig.

4. Proben

Zu untersuchende Parameter:

1,2-Dichlorethan, Tetrachlorethen, Trichlorethen, Trichlormethan, Bromdichlormethan, Dibromchlormethan, Tribrommethan, Benzol, Vinylchlorid

Matrix

Synthetisches Trinkwasser, hergestellt aus vollentionisiertem Wasser durch Zugabe entsprechender Salze

Probenherstellung

Zur Herstellung der Proben wurde der pH-Wert der Matrix mit Schwefelsäure auf einen pH-Wert von ca. 2,1 eingestellt. Anschließend wurde die Matrix mit Standardlösungen, deren Konzentrationen genau bekannt waren, aufgestockt. Für jedes Niveau wurde ein Ansatz hergestellt und luftblasenfrei in Flaschen abgefüllt. Alle Proben wurden vom Zeitpunkt der Abfüllung bis zur Abgabe an die Teilnehmerlabore kontinuierlich bei ca. 4°C gekühlt.

5. Probenverteilung

Der Versand der gekühlten Proben erfolgte mittels Paketdienst am 29. Oktober 2018 mit einer garantierten Lieferung bis 30. Oktober 2018 um 12 Uhr.

6. Homogenität und Stabilität

Die Homogenität der Proben wurde für alle Niveaus direkt nach der Herstellung durch Entnahme mehrerer Proben geprüft. Die Stabilität der Proben wurde begleitend über einen Zeitraum von insgesamt 4 Wochen ab dem Tag der Herstellung der Proben untersucht. Beide Tests ergaben zufriedenstellende Ergebnisse.

7. Analysenverfahren

Die Wahl des **Analysenverfahrens** war grundsätzlich freigestellt. Es wurde jedoch vorausgesetzt, dass mit den gewählten Analysenverfahren eine vorgegebene untere Grenze des Arbeitsbereichs für die einzelnen Parameter erreicht wird. Folgende Angaben wurden von den teilnehmenden Laboren zu den verwendeten Analyseverfahren gemacht:

| Analysemethode (AM) | Anzahl Nutzungen pro Merkmal | | | | | | | | |
|---|------------------------------|-----------------|---------------|----------------|-------------------|-------------------|---------------|--------|--------------|
| | 1,2-Dichlorethan | Tetrachlorethen | Trichlorethen | Trichlormethan | Bromdichlormethan | Dibromchlormethan | Tribrommethan | Benzol | Vinylchlorid |
| DIN EN ISO 10301 Nummer 2 (Extraktion) | 3 | 3 | 5 | 5 | 8 | 7 | 4 | 7 | 1 |
| DIN EN ISO 10301 Nummer 3 (Head-space) | 171 | 180 | 180 | 181 | 178 | 179 | 182 | 89 | 99 |
| DIN EN ISO 15680: 2004-04 | 32 | 32 | 30 | 31 | 29 | 28 | 29 | 38 | 24 |
| DIN EN ISO 17943: 2016-10 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| DIN 38407-43: 2014-10 | 154 | 151 | 151 | 152 | 151 | 152 | 151 | 202 | 125 |
| andere Verfahren | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 33 | 15 |

8. Arbeitsbereich

Folgende unteren Grenzen der Arbeitsbereiche mussten im Ringversuch erreicht werden:

| Parameter | Untere Grenze des Arbeitsbereichs in µg/L |
|-------------------|---|
| 1,2-Dichlorethan | 1 |
| Tetrachlorethen | 0,3 |
| Trichlorethen | 0,3 |
| Trichlormethan | 0,5 |
| Bromdichlormethan | 1 |
| Dibromchlormethan | 1 |
| Tribrommethan | 0,5 |
| Benzol | 0,3 |
| Vinylchlorid | 0,15 |

9. Ergebnisabgabe

Die teilnehmenden Labore wurden darauf hingewiesen, spätestens am Tag nach Erhalt der Proben mit der Analytik zu beginnen. Die Analytik sollte bis zum 6.11.2018 abgeschlossen worden sein.

Die Ergebnisse der Analysen mussten bis zum 23.11.2018 beim Veranstalter schriftlich vorliegen. Später eingehende Werte wurden nicht berücksichtigt.

10. Angabe des Ergebnisses

Die Proben waren jeweils zweifach über das Gesamtverfahren zu analysieren. Anzugeben war der Mittelwert aus beiden Bestimmungen in µg/L mit drei signifikanten Stellen.

11. Statistische Auswertung

Die statistische Auswertung der Daten dieses Ringversuchs erfolgte nach DIN 38402 - A 45:2014-06 „Ringversuche zur Eignungsprüfung von Laboratorien“ mit der Software PROLab Version 2018.3.13.0, Fa. QuoData, Dresden.

Als zugewiesener Wert x_{pt} wurde der Hampel-Schätzer als robuster Gesamtmittelwert aus den Teilnehmerwerten berechnet. Die Vergleichsstandardabweichung σ_{pt} wurde nach der Q-Methode berechnet. Aus der Vergleichsstandardabweichung σ_{pt} wurden die Toleranzgrenzen bestimmt.

Aus zugewiesenem Wert x_{pt} und Standardabweichung zur Eignungsbeurteilung σ_{pt} wurde für jeden Messwert x nach folgender Formel ein z-Score berechnet:

$$z - \text{Score} = \frac{(x - x_{pt})}{\sigma_{pt}}$$

Dieser z-Score wurde gemäß den Vorgaben des LAWA-Merkblatts A-3:2013-08 mittels Korrekturfaktoren zu z_U -Scores modifiziert. Als Toleranzgrenze wurde $|z_U| = 2,0$ festgelegt.

12. Varianzfunktion

Um Ungerechtigkeiten bei der Bewertung unterschiedlicher Konzentrationsniveaus zu vermeiden, wurde geprüft, in wieweit dies mit der Anwendung der **Varianzfunktion** vermieden werden kann. Die Entscheidung für die Anwendung der Varianzfunktion erfolgte nach Vorlage aller Daten.

Die Varianzfunktion wurde nicht angewendet.

13. Limitierung der Standardabweichung

Zur Beurteilung wurde die Vergleichsstandardabweichung herangezogen, auf deren Grundlage die Toleranzgrenzen ermittelt wurden. Damit diese weder zu weit noch zu eng berechnet wurden, galt folgende Limitierung der relativen Vergleichsstandardabweichung σ_{pt} :

Untergrenze: 5%, Obergrenze: 25%

Die untere Grenze wurde bei keinem Parameter, die obere Grenze für Vinylchlorid in allen 9 Proben angewandt.

14. Bewertungsgrundlagen

Die Bewertung erfolgte parameterspezifisch. Ein Parameter wurde als erfolgreich bestimmt anerkannt, wenn mindestens 2 von 3 Werten innerhalb der Toleranzgrenzen lagen.

Als nicht erfolgreich analysiert galten:

- Nicht bestimmte Werte,
- Werte, die mit „kleiner (<) untere Grenze des Arbeitsbereichs“ angegeben wurden,
- Werte, die aus Untervergaben an ein Fremdlabor resultierten,
- Werte, die nicht innerhalb des vorgegebenen Analysenzeitraumes ermittelt wurden und
- Werte, die nicht innerhalb der festgesetzten Frist beim Veranstalter eintrafen.

15. Messunsicherheit des zugewiesenen Wertes

Die Messunsicherheit des mittels robuster Statistik berechneten Gesamtmittelwertes wurde nach DIN ISO 13528:2009-01 folgendermaßen abgeschätzt,

$$u_x = 1,25 * \sigma_{pt} / (p^{1/2})$$

wobei σ_{pt} die robuste Standardabweichung und p die Anzahl der Teilnehmer des Ringversuchs ist. Sie wird im Folgenden als MU zugewiesener Wert aufgeführt.

16. Rückführbarkeit

Da keine ausreichend rückführbaren Referenzwerte zur Verfügung standen, wurde als zugewiesener Wert der mittels Hampel-Schätzer berechnete Gesamtmittelwert der Teilnehmerergebnisse genutzt. Dieser ist auf die Werte des Teilnehmerkollektivs zurückzuführen.

17. Ergebnisse

131 Labore haben Ergebnisse zu diesem Ringversuch abgegeben, davon haben 86 Labore alle Parameter bestimmt.

Tabelle: Anzahl Labore mit Ergebnisabgabe, sowie erfolgreicher und nicht erfolgreicher Labore je Parameter.

| Parameter | Anzahl Labore | Parameter erfolgreich bestimmt | Parameter nicht erfolgreich bestimmt | Anteil erfolgreicher Bestimmungen |
|-------------------|----------------------|---------------------------------------|---|--|
| 1,2-Dichlorethan | 124 | 118 | 6 | 95% |
| Benzol | 125 | 114 | 11 | 91% |
| Bromdichlormethan | 127 | 122 | 5 | 96% |
| Dibromchlormethan | 127 | 122 | 5 | 96% |
| Tetrachlorethen | 126 | 120 | 6 | 95% |
| Tribrommethan | 127 | 123 | 4 | 97% |
| Trichlorethen | 126 | 114 | 12 | 90% |
| Trichlormethan | 128 | 124 | 4 | 97% |
| Vinylchlorid | 90 | 76 | 14 | 84% |

Grafik: Anzahl erfolgreicher und nicht erfolgreicher Labore je Parameter:

18. Verfügbarkeit des Berichts

Der Bericht ist im Internet verfügbar unter www.hamburg.de/bgv/ringversuche-auswertungen/.

Statistische Auswertung

Probe 1

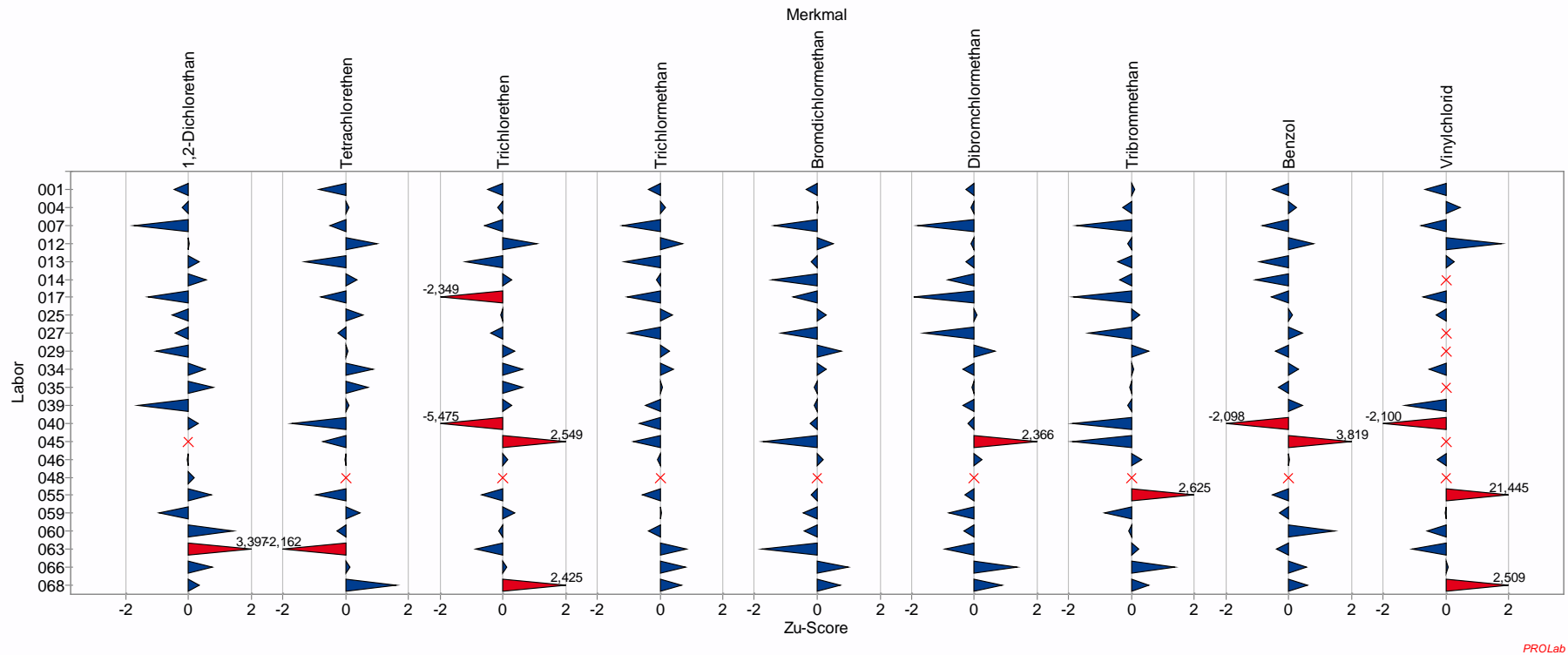
Kennwerte – Probe 1

Tabelle

| Probe 1 | Einheit | Anzahl der Labore | Sollwert | Soll-Stdabw. | Vergleich-Stdabw. | Rel. Soll-Stdabw. | Rel. Vergleich-Stdabw. | unt. Toleranzgr. | ob. Toleranzgr. | Messunsicherheit MU |
|-------------------|---------|-------------------|----------|--------------|-------------------|-------------------|------------------------|------------------|-----------------|---------------------|
| 1,2-Dichlorethan | µg/L | 44 | 5,006 | 0,859 | 0,859 | 17,16 % | 17,16 % | 3,411 | 6,898 | 3,23 % |
| Tetrachlorethen | µg/L | 45 | 7,671 | 1,531 | 1,531 | 19,96 % | 19,96 % | 4,858 | 11,105 | 3,72 % |
| Trichlorethen | µg/L | 45 | 9,453 | 1,620 | 1,620 | 17,14 % | 17,14 % | 6,445 | 13,021 | 3,19 % |
| Trichlormethan | µg/L | 46 | 15,682 | 2,209 | 2,209 | 14,09 % | 14,09 % | 11,533 | 20,457 | 2,60 % |
| Bromdichlormethan | µg/L | 46 | 3,810 | 0,617 | 0,617 | 16,21 % | 16,21 % | 2,660 | 5,162 | 2,99 % |
| Dibromchlormethan | µg/L | 46 | 6,913 | 1,051 | 1,051 | 15,21 % | 15,21 % | 4,947 | 9,202 | 2,80 % |
| Tribrommethan | µg/L | 46 | 7,775 | 1,324 | 1,324 | 17,03 % | 17,03 % | 5,317 | 10,690 | 3,14 % |
| Benzol | µg/L | 44 | 2,210 | 0,418 | 0,418 | 18,94 % | 18,94 % | 1,438 | 3,142 | 3,57 % |
| Vinylchlorid | µg/L | 31 | 10,181 | 2,545 | 2,861 | 25,00 % | 28,10 % | 5,581 | 16,086 | 6,31 % |

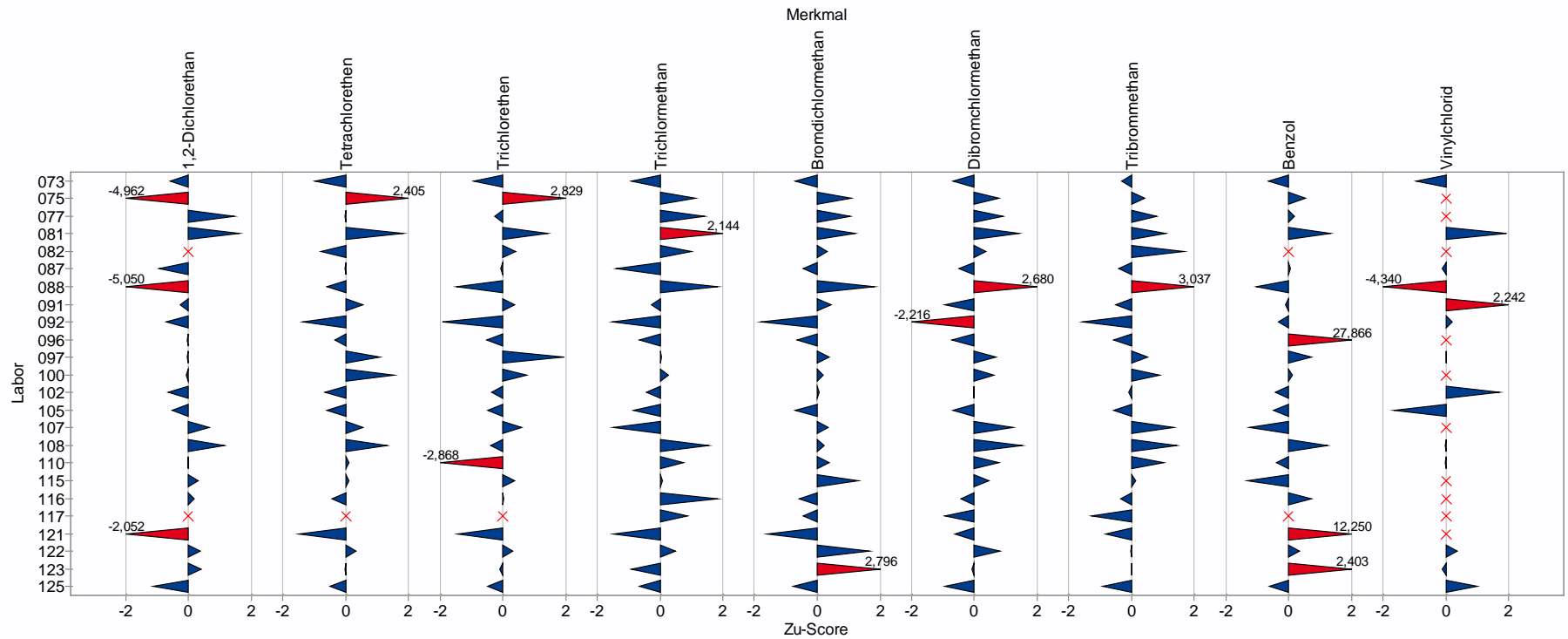
Übersicht z_U-Scores

Graphik 1a: z_U-scores Probe1, Teil 1



PROLab

Graphik 1b: z_U-scores Probe1, Teil 2



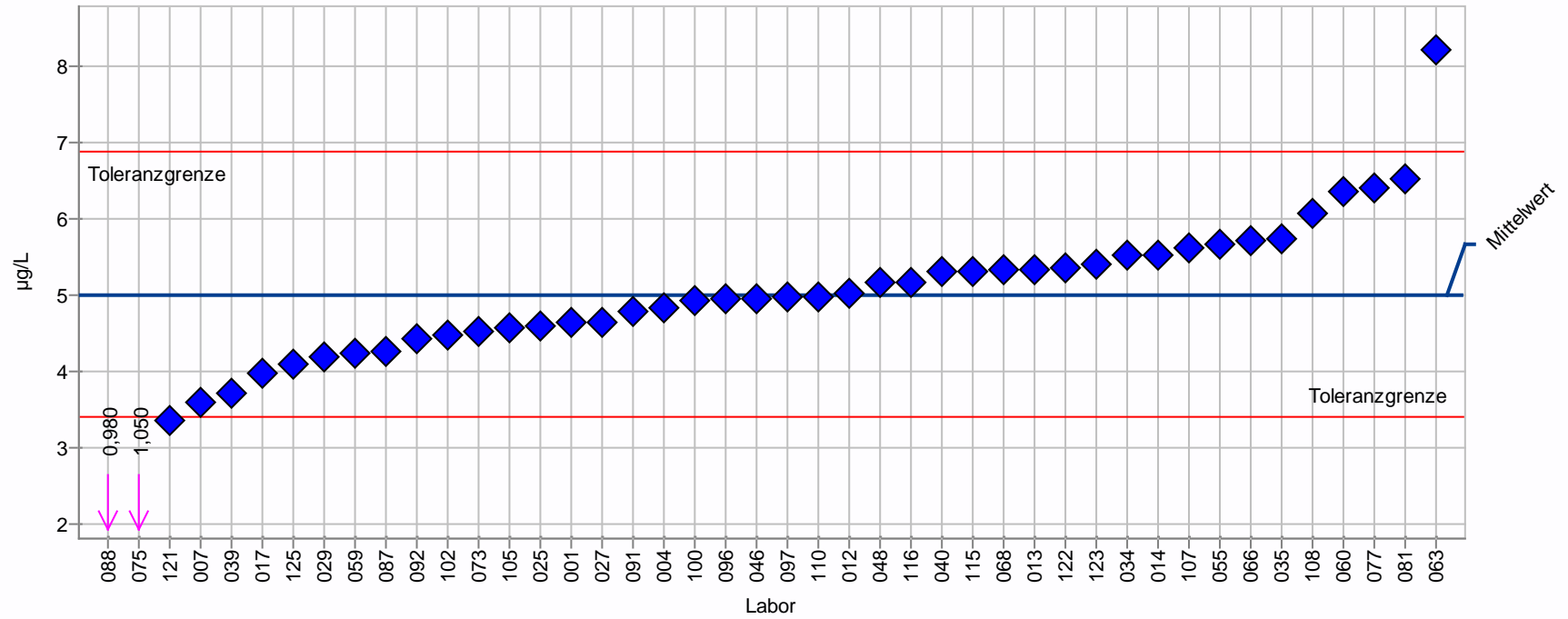
PROLab

Einzeldarstellung der Parameter

Grafik und Tabelle

Abbildung 1: Mittelwerte + Stdabw. für Niveau 1, 1,2-Dichlorethan

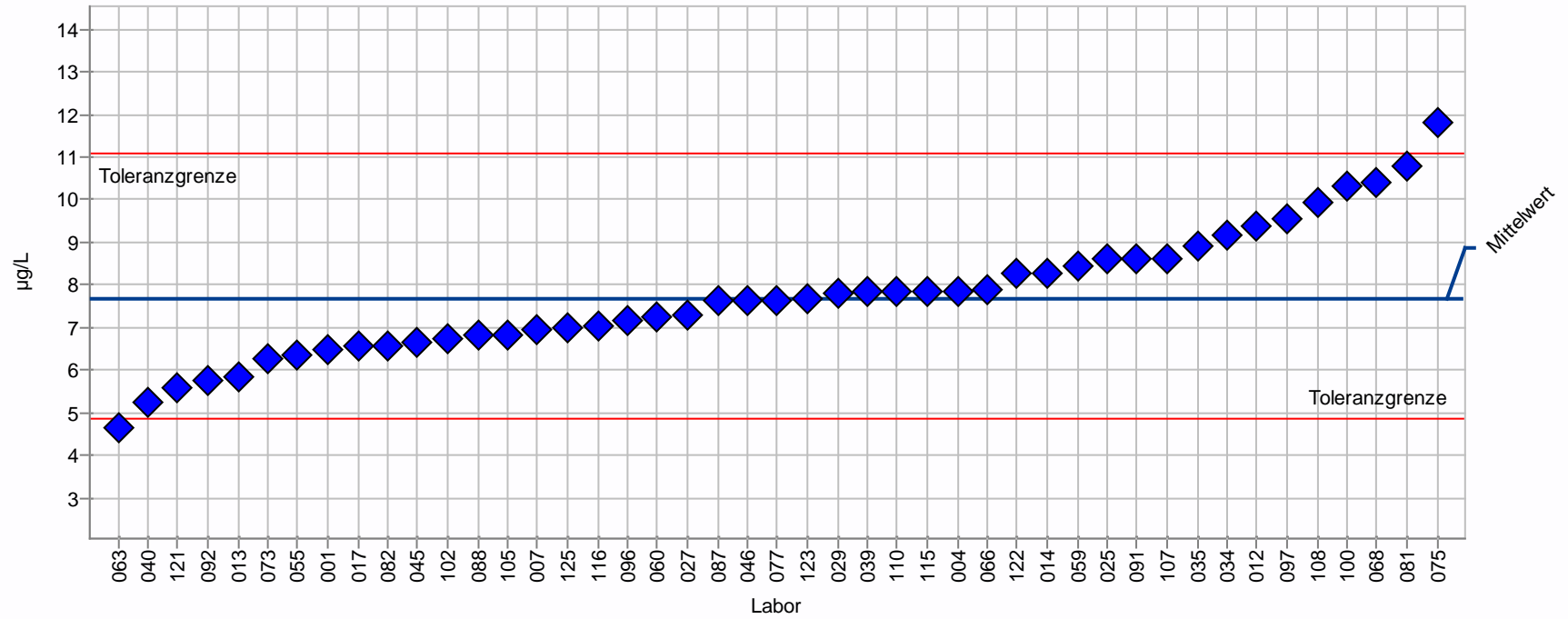
Probe: Niveau 1 Sollwert: 5,006 µg/L (empirischer Wert)
 Merkmal: 1,2-Dichlorethan Rel. Soll-Stdabw.: 17,16% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 3,411 - 6,898 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 2: Mittelwerte + Stdabw. für Niveau 1, Tetrachlorethen

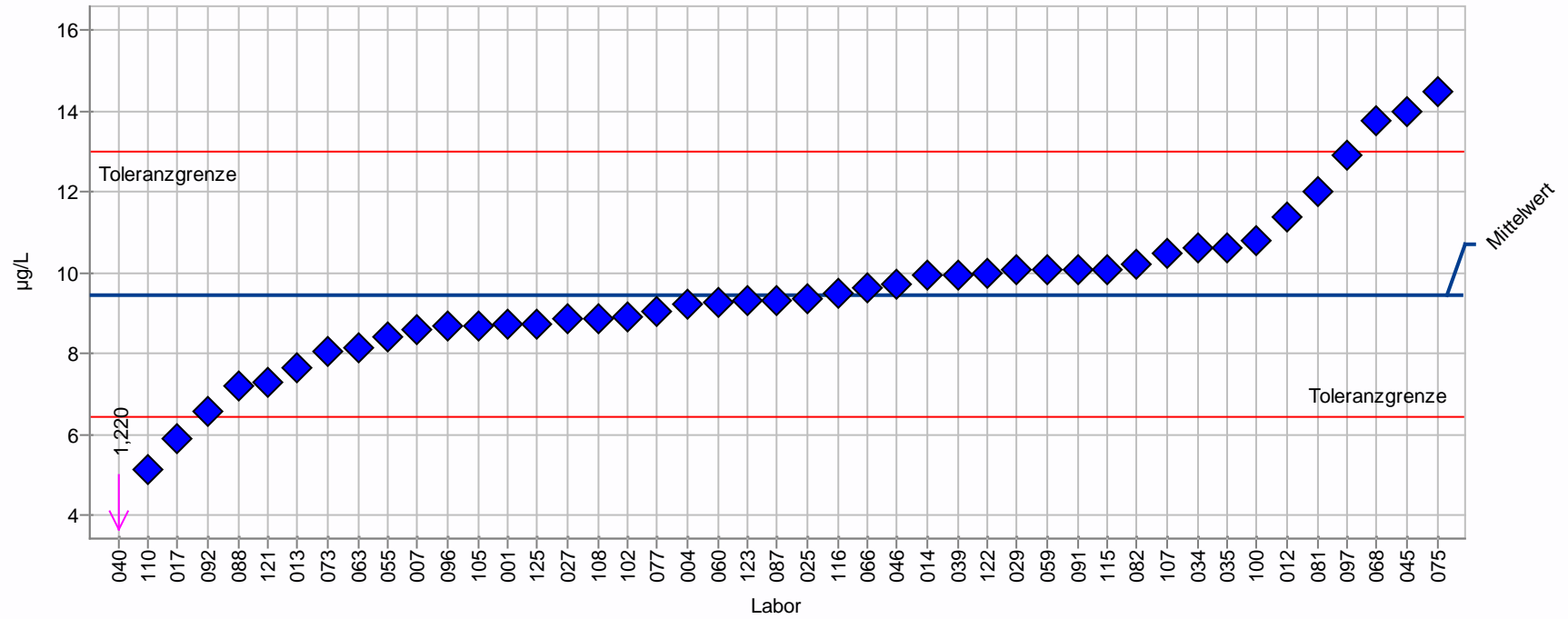
Probe: Niveau 1 Sollwert: 7,671 µg/L (empirischer Wert)
 Merkmal: Tetrachlorethen Rel. Soll-Stdabw.: 19,96% (Limited)
 Anzahl Labore in Berechnung: 45 Toleranzbereich: 4,858 - 11,105 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 3: Mittelwerte + Stdabw. für Niveau 1, Trichlorethen

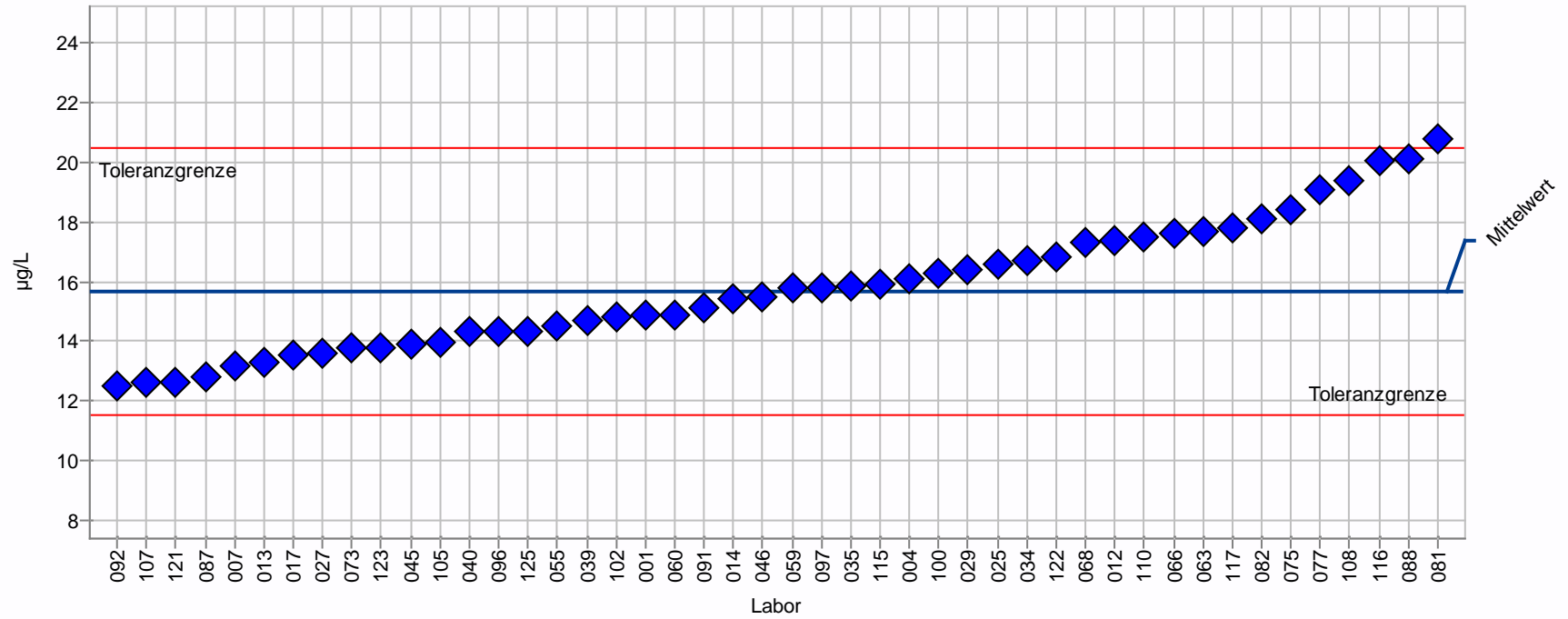
Probe: Niveau 1 Sollwert: 9,453 µg/L (empirischer Wert)
 Merkmal: Trichlorethen Rel. Soll-Stdabw.: 17,14% (Limited)
 Anzahl Labore in Berechnung: 45 Toleranzbereich: 6,445 - 13,021 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 4: Mittelwerte + Stdabw. für Niveau 1, Trichlormethan

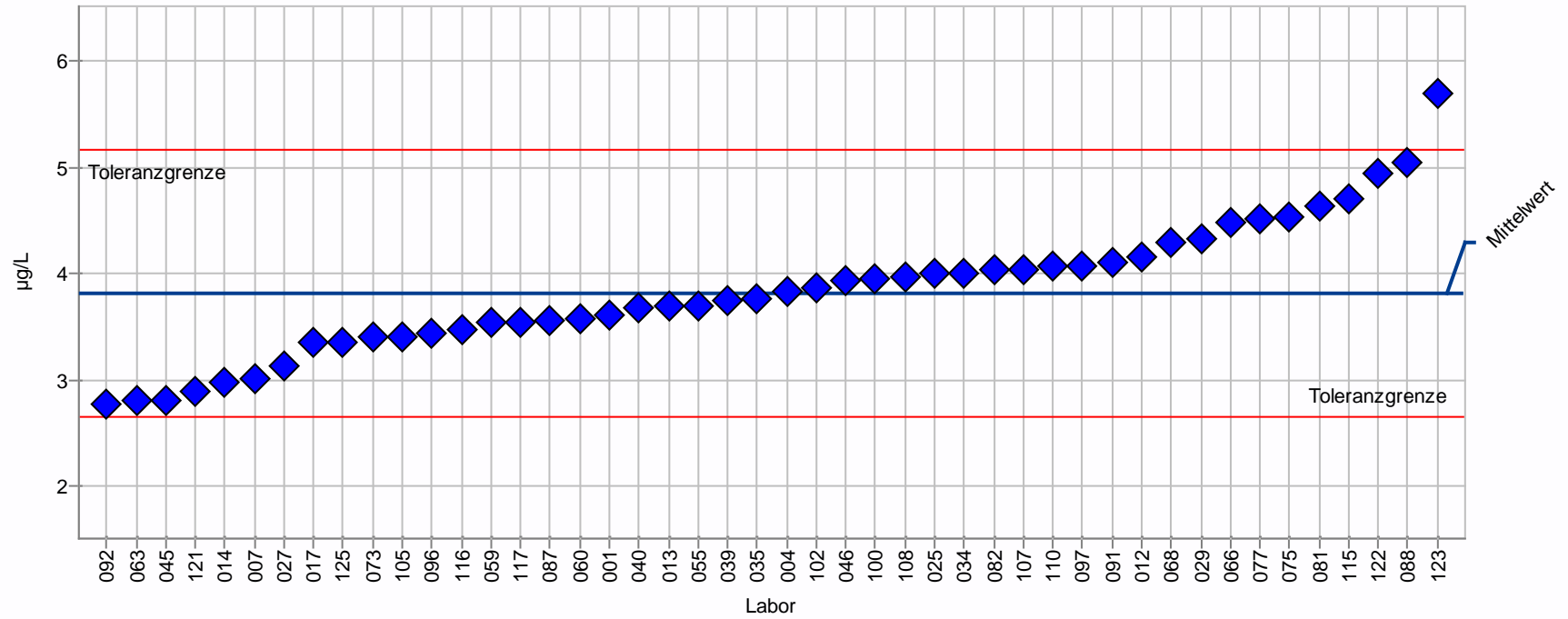
Probe: Niveau 1 Sollwert: 15,682 µg/L (empirischer Wert)
 Merkmal: Trichlormethan Rel. Soll-Stdabw.: 14,09% (Limited)
 Anzahl Labore in Berechnung: 46 Toleranzbereich: 11,533 - 20,457 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 5: Mittelwerte + Stdabw. für Niveau 1, Bromdichlormethan

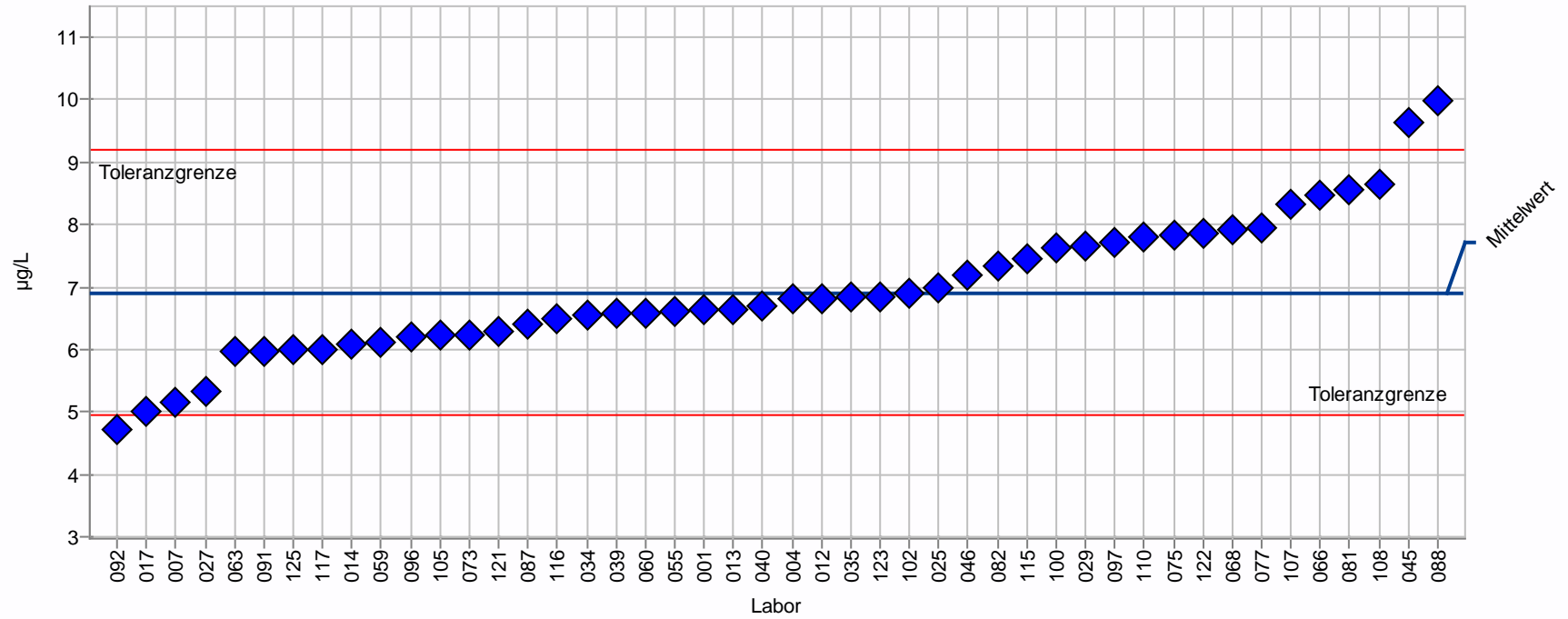
Probe: Niveau 1 Sollwert: 3,810 µg/L (empirischer Wert)
 Merkmal: Bromdichlormethan Rel. Soll-Stdabw.: 16,21% (Limited)
 Anzahl Labore in Berechnung: 46 Toleranzbereich: 2,660 - 5,162 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 6: Mittelwerte + Stdabw. für Niveau 1, Dibromchlormethan

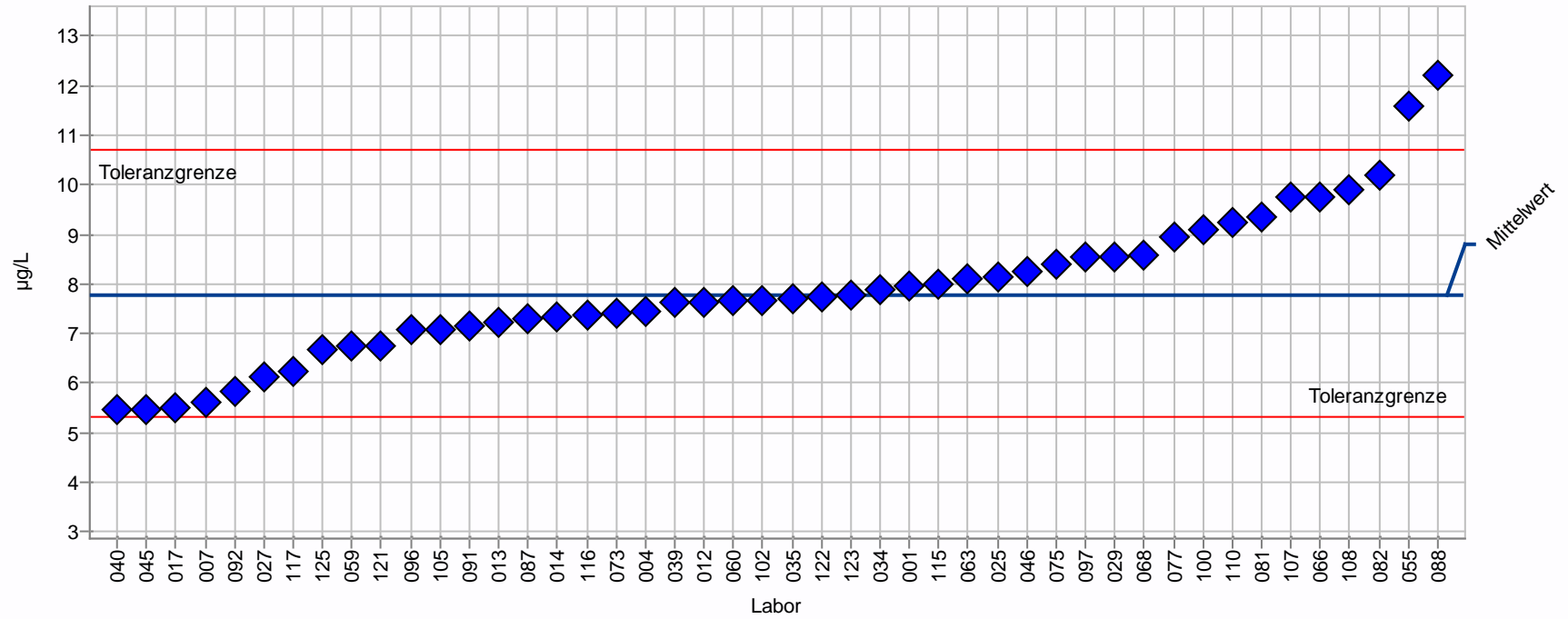
Probe: Niveau 1
 Merkmal: Dibromchlormethan
 Anzahl Labore in Berechnung: 46
 Sollwert: 6,913 µg/L (empirischer Wert)
 Rel. Soll-Stdabw.: 15,21% (Limited)
 Toleranzbereich: 4,947 - 9,202 µg/L ($|Z\text{-Score}| \leq 2,000$)



PROLab

Abbildung 7: Mittelwerte + Stdabw. für Niveau 1, Tribrommethan

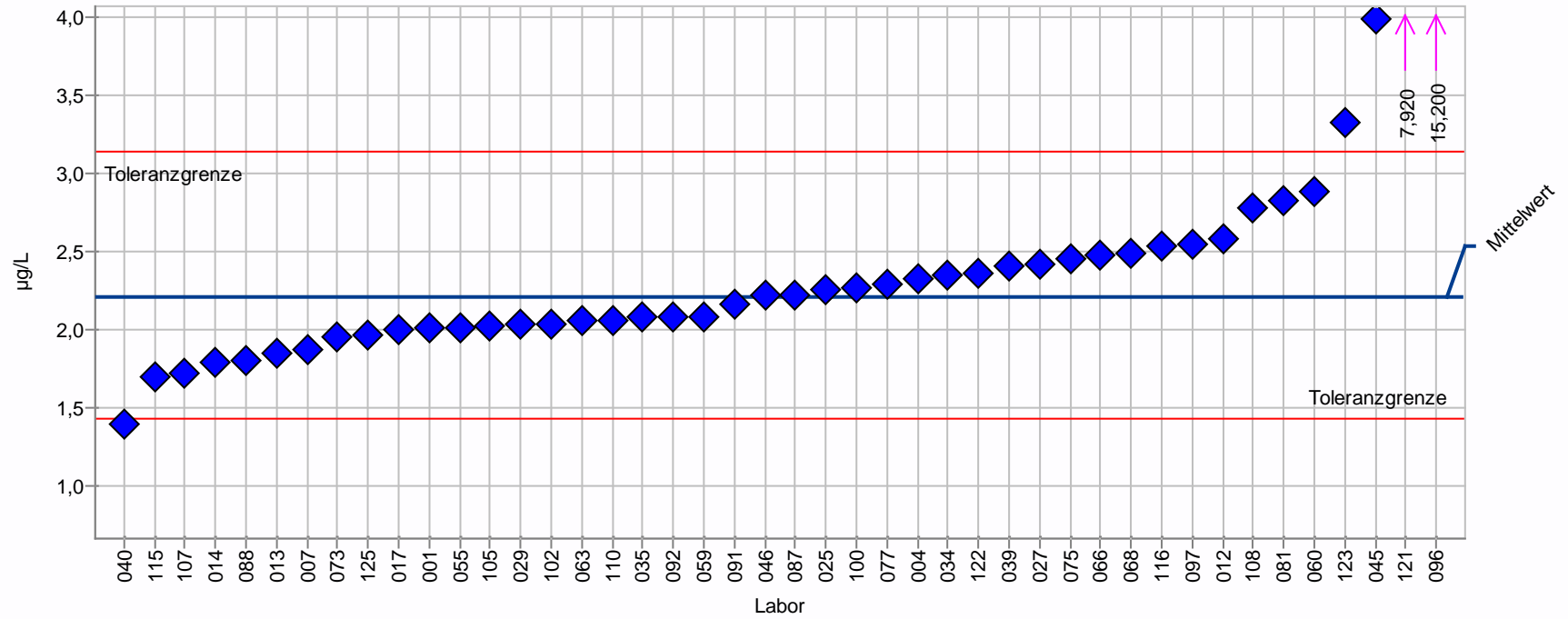
Probe: Niveau 1 Sollwert: 7,775 µg/L (empirischer Wert)
 Merkmal: Tribrommethan Rel. Soll-Stdabw.: 17,03% (Limited)
 Anzahl Labore in Berechnung: 46 Toleranzbereich: 5,317 - 10,690 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 8: Mittelwerte + Stdabw. für Niveau 1, Benzol

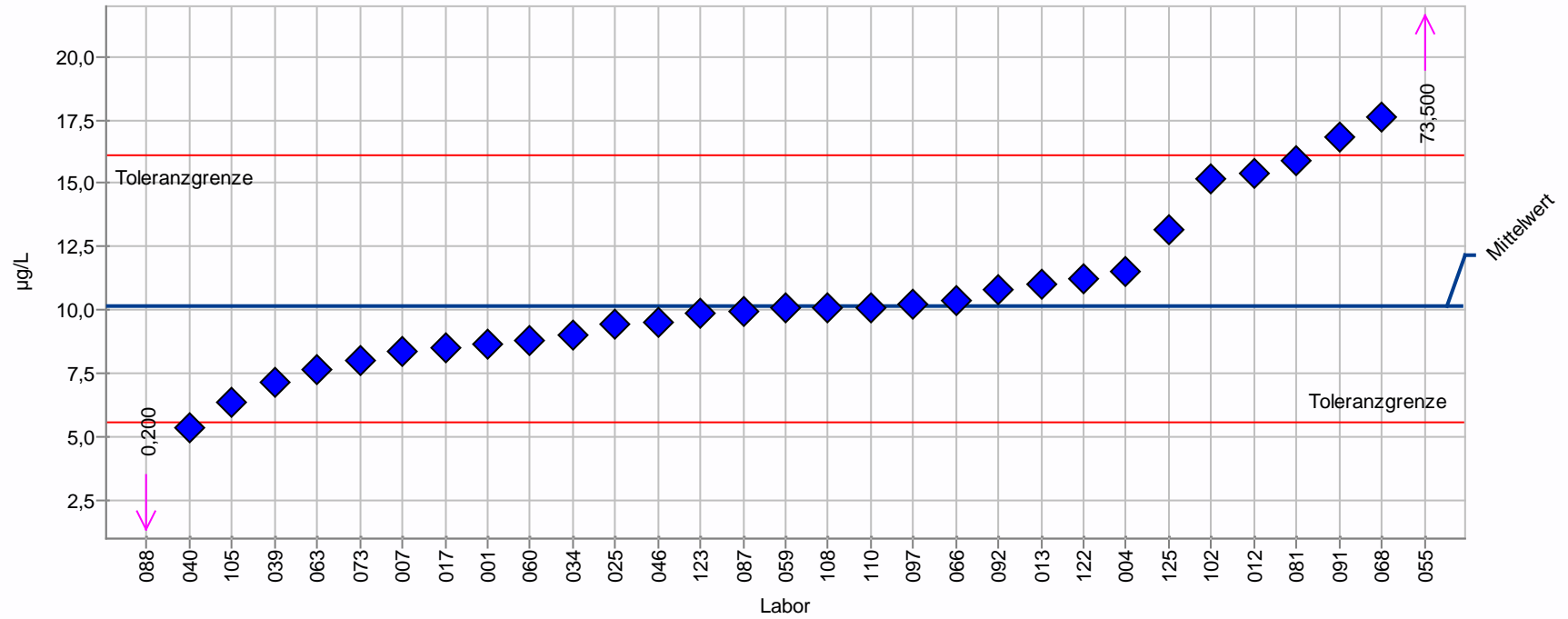
Probe: Niveau 1 Sollwert: 2,210 µg/L (empirischer Wert)
 Merkmal: Benzol Rel. Soll-Stdabw.: 18,94% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 1,438 - 3,142 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 9: Mittelwerte + Stdabw. für Niveau 1, Vinylchlorid

Probe: Niveau 1 Sollwert: 10,181 µg/L (empirischer Wert)
 Merkmal: Vinylchlorid Rel. Soll-Stdabw.: 25,00% (Limited)
 Anzahl Labore in Berechnung: 31 Toleranzbereich: 5,581 - 16,086 µg/L (|Zu-Score| <= 2,000)



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Einzeldarstellung Tabelle

Probe: Niveau 1 **Sollwert:** 5,006 µg/L (empirischer Wert)
Merkmal: 1,2-Dichlorethan **Rel. Soll-Stdabw.:** 17,16% (Limited)
Anzahl Labore in Berechnung: 44 **Toleranzbereich:** 3,411 - 6,898 µg/L (|Zu-Score| ≤ 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 4,640 | | -0,459 | 4,640 |
| 004 | 4,850 | | -0,195 | 4,850 |
| 007 | 3,610 | | -1,751 | 3,610 |
| 012 | 5,040 | | 0,036 | 5,040 |
| 013 | 5,340 | | 0,353 | 5,340 |
| 014 | 5,530 | | 0,554 | 5,530 |
| 017 | 3,990 | | -1,274 | 3,990 |
| 025 | 4,600 | | -0,509 | 4,600 |
| 027 | 4,660 | | -0,434 | 4,660 |
| 029 | 4,190 | | -1,023 | 4,190 |
| 034 | 5,520 | | 0,544 | 5,520 |
| 035 | 5,750 | | 0,787 | 5,750 |
| 039 | 3,720 | | -1,613 | 3,720 |
| 040 | 5,310 | | 0,322 | 5,310 |
| 046 | 4,970 | | -0,045 | 4,970 |
| 048 | 5,170 | | 0,174 | 5,170 |
| 055 | 5,680 | | 0,713 | 5,680 |
| 059 | 4,250 | | -0,948 | 4,250 |
| 060 | 6,360 | | 1,431 | 6,360 |
| 063 | 8,220 | | 3,397 | 8,220 |
| 066 | 5,720 | | 0,755 | 5,720 |
| 068 | 5,330 | | 0,343 | 5,330 |
| 073 | 4,540 | | -0,584 | 4,540 |
| 075 | 1,050 | | -4,962 | 1,050 |
| 077 | 6,400 | | 1,474 | 6,400 |
| 081 | 6,530 | | 1,611 | 6,530 |
| 087 | 4,260 | | -0,935 | 4,260 |
| 088 | 0,980 | | -5,050 | 0,980 |
| 091 | 4,790 | | -0,271 | 4,790 |
| 092 | 4,438 | | -0,712 | 4,438 |
| 096 | 4,960 | | -0,057 | 4,960 |
| 097 | 4,980 | | -0,032 | 4,980 |
| 100 | 4,940 | | -0,082 | 4,940 |
| 102 | 4,490 | | -0,647 | 4,490 |
| 105 | 4,580 | | -0,534 | 4,580 |
| 107 | 5,620 | | 0,649 | 5,620 |
| 108 | 6,080 | | 1,135 | 6,080 |
| 110 | 4,990 | | -0,020 | 4,990 |
| 115 | 5,310 | | 0,322 | 5,310 |
| 116 | 5,177 | | 0,181 | 5,177 |
| 121 | 3,370 | | -2,052 | 3,370 |
| 122 | 5,352 | | 0,366 | 5,352 |
| 123 | 5,400 | | 0,417 | 5,400 |
| 125 | 4,100 | | -1,136 | 4,100 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 1 Sollwert: 7,671 µg/L (empirischer Wert)
 Merkmal: Tetrachlorethen Rel. Soll-Stdabw.: 19,96% (Limited)
 Anzahl Labore in Berechnung: 45 Toleranzbereich: 4,858 - 11,105 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 6,480 | | -0,847 | 6,480 |
| 004 | 7,860 | | 0,110 | 7,860 |
| 007 | 6,950 | | -0,513 | 6,950 |
| 012 | 9,400 | | 1,007 | 9,400 |
| 013 | 5,820 | | -1,316 | 5,820 |
| 014 | 8,280 | | 0,354 | 8,280 |
| 017 | 6,560 | | -0,790 | 6,560 |
| 025 | 8,600 | | 0,541 | 8,600 |
| 027 | 7,310 | | -0,257 | 7,310 |
| 029 | 7,820 | | 0,087 | 7,820 |
| 034 | 9,160 | | 0,867 | 9,160 |
| 035 | 8,900 | | 0,716 | 8,900 |
| 039 | 7,840 | | 0,098 | 7,840 |
| 040 | 5,260 | | -1,714 | 5,260 |
| 045 | 6,640 | | -0,733 | 6,640 |
| 046 | 7,650 | | -0,015 | 7,650 |
| 055 | 6,350 | | -0,939 | 6,350 |
| 059 | 8,440 | | 0,448 | 8,440 |
| 060 | 7,260 | | -0,292 | 7,260 |
| 063 | 4,630 | | -2,162 | 4,630 |
| 066 | 7,890 | | 0,127 | 7,890 |
| 068 | 10,420 | | 1,601 | 10,420 |
| 073 | 6,280 | | -0,989 | 6,280 |
| 075 | 11,800 | | 2,405 | 11,800 |
| 077 | 7,650 | | -0,015 | 7,650 |
| 081 | 10,800 | | 1,822 | 10,800 |
| 082 | 6,560 | | -0,790 | 6,560 |
| 087 | 7,620 | | -0,036 | 7,620 |
| 088 | 6,830 | | -0,598 | 6,830 |
| 091 | 8,610 | | 0,547 | 8,610 |
| 092 | 5,753 | | -1,364 | 5,753 |
| 096 | 7,180 | | -0,349 | 7,180 |
| 097 | 9,540 | | 1,088 | 9,540 |
| 100 | 10,300 | | 1,531 | 10,300 |
| 102 | 6,720 | | -0,676 | 6,720 |
| 105 | 6,830 | | -0,598 | 6,830 |
| 107 | 8,630 | | 0,558 | 8,630 |
| 108 | 9,950 | | 1,327 | 9,950 |
| 110 | 7,840 | | 0,098 | 7,840 |
| 115 | 7,850 | | 0,104 | 7,850 |
| 116 | 7,053 | | -0,440 | 7,053 |
| 121 | 5,590 | | -1,479 | 5,590 |
| 122 | 8,253 | | 0,339 | 8,253 |
| 123 | 7,660 | | -0,008 | 7,660 |
| 125 | 6,980 | | -0,491 | 6,980 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 1 **Sollwert:** 9,453 µg/L (empirischer Wert)
Merkmal: Trichlorethen **Rel. Soll-Stdabw.:** 17,14% (Limited)
Anzahl Labore in Berechnung: 45 **Toleranzbereich:** 6,445 - 13,021 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 8,720 | | -0,487 | 8,720 |
| 004 | 9,210 | | -0,161 | 9,210 |
| 007 | 8,580 | | -0,580 | 8,580 |
| 012 | 11,370 | | 1,075 | 11,370 |
| 013 | 7,650 | | -1,199 | 7,650 |
| 014 | 9,930 | | 0,268 | 9,930 |
| 017 | 5,920 | | -2,349 | 5,920 |
| 025 | 9,350 | | -0,068 | 9,350 |
| 027 | 8,850 | | -0,401 | 8,850 |
| 029 | 10,100 | | 0,363 | 10,100 |
| 034 | 10,600 | | 0,643 | 10,600 |
| 035 | 10,600 | | 0,643 | 10,600 |
| 039 | 9,940 | | 0,273 | 9,940 |
| 040 | 1,220 | | -5,475 | 1,220 |
| 045 | 14,000 | | 2,549 | 14,000 |
| 046 | 9,720 | | 0,150 | 9,720 |
| 055 | 8,430 | | -0,680 | 8,430 |
| 059 | 10,100 | | 0,363 | 10,100 |
| 060 | 9,260 | | -0,128 | 9,260 |
| 063 | 8,150 | | -0,866 | 8,150 |
| 066 | 9,650 | | 0,111 | 9,650 |
| 068 | 13,780 | | 2,425 | 13,780 |
| 073 | 8,070 | | -0,920 | 8,070 |
| 075 | 14,500 | | 2,829 | 14,500 |
| 077 | 9,060 | | -0,261 | 9,060 |
| 081 | 12,000 | | 1,428 | 12,000 |
| 082 | 10,200 | | 0,419 | 10,200 |
| 087 | 9,340 | | -0,075 | 9,340 |
| 088 | 7,220 | | -1,485 | 7,220 |
| 091 | 10,100 | | 0,363 | 10,100 |
| 092 | 6,563 | | -1,922 | 6,563 |
| 096 | 8,700 | | -0,501 | 8,700 |
| 097 | 12,900 | | 1,932 | 12,900 |
| 100 | 10,800 | | 0,755 | 10,800 |
| 102 | 8,910 | | -0,361 | 8,910 |
| 105 | 8,710 | | -0,494 | 8,710 |
| 107 | 10,500 | | 0,587 | 10,500 |
| 108 | 8,880 | | -0,381 | 8,880 |
| 110 | 5,140 | | -2,868 | 5,140 |
| 115 | 10,100 | | 0,363 | 10,100 |
| 116 | 9,502 | | 0,028 | 9,502 |
| 121 | 7,290 | | -1,438 | 7,290 |
| 122 | 9,991 | | 0,302 | 9,991 |
| 123 | 9,320 | | -0,088 | 9,320 |
| 125 | 8,720 | | -0,487 | 8,720 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 1 **Sollwert:** 15,682 µg/L (empirischer Wert)
Merkmal: Trichlormethan **Rel. Soll-Stdabw.:** 14,09% (Limited)
Anzahl Labore in Berechnung: 46 **Toleranzbereich:** 11,533 - 20,457 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 14,900 | | -0,377 | 14,900 |
| 004 | 16,100 | | 0,175 | 16,100 |
| 007 | 13,200 | | -1,196 | 13,200 |
| 012 | 17,370 | | 0,707 | 17,370 |
| 013 | 13,300 | | -1,148 | 13,300 |
| 014 | 15,440 | | -0,116 | 15,440 |
| 017 | 13,530 | | -1,037 | 13,530 |
| 025 | 16,600 | | 0,385 | 16,600 |
| 027 | 13,600 | | -1,003 | 13,600 |
| 029 | 16,400 | | 0,301 | 16,400 |
| 034 | 16,700 | | 0,426 | 16,700 |
| 035 | 15,840 | | 0,066 | 15,840 |
| 039 | 14,700 | | -0,473 | 14,700 |
| 040 | 14,300 | | -0,666 | 14,300 |
| 045 | 13,900 | | -0,859 | 13,900 |
| 046 | 15,500 | | -0,088 | 15,500 |
| 055 | 14,500 | | -0,570 | 14,500 |
| 059 | 15,800 | | 0,050 | 15,800 |
| 060 | 14,900 | | -0,377 | 14,900 |
| 063 | 17,700 | | 0,845 | 17,700 |
| 066 | 17,600 | | 0,803 | 17,600 |
| 068 | 17,310 | | 0,682 | 17,310 |
| 073 | 13,780 | | -0,917 | 13,780 |
| 075 | 18,400 | | 1,138 | 18,400 |
| 077 | 19,100 | | 1,432 | 19,100 |
| 081 | 20,800 | | 2,144 | 20,800 |
| 082 | 18,100 | | 1,013 | 18,100 |
| 087 | 12,800 | | -1,389 | 12,800 |
| 088 | 20,100 | | 1,850 | 20,100 |
| 091 | 15,100 | | -0,280 | 15,100 |
| 092 | 12,522 | | -1,523 | 12,522 |
| 096 | 14,300 | | -0,666 | 14,300 |
| 097 | 15,800 | | 0,050 | 15,800 |
| 100 | 16,300 | | 0,259 | 16,300 |
| 102 | 14,800 | | -0,425 | 14,800 |
| 105 | 13,946 | | -0,837 | 13,946 |
| 107 | 12,600 | | -1,486 | 12,600 |
| 108 | 19,400 | | 1,557 | 19,400 |
| 110 | 17,500 | | 0,762 | 17,500 |
| 115 | 15,900 | | 0,091 | 15,900 |
| 116 | 20,060 | | 1,834 | 20,060 |
| 117 | 17,800 | | 0,887 | 17,800 |
| 121 | 12,600 | | -1,486 | 12,600 |
| 122 | 16,830 | | 0,481 | 16,830 |
| 123 | 13,800 | | -0,907 | 13,800 |
| 125 | 14,310 | | -0,661 | 14,310 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 1 **Sollwert:** 3,810 µg/L (empirischer Wert)
Merkmal: Bromdichlormethan **Rel. Soll-Stdabw.:** 16,21% (Limited)
Anzahl Labore in Berechnung: 46 **Toleranzbereich:** 2,660 - 5,162 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 3,610 | | -0,348 | 3,610 |
| 004 | 3,830 | | 0,030 | 3,830 |
| 007 | 3,020 | | -1,374 | 3,020 |
| 012 | 4,160 | | 0,518 | 4,160 |
| 013 | 3,700 | | -0,191 | 3,700 |
| 014 | 2,980 | | -1,443 | 2,980 |
| 017 | 3,360 | | -0,782 | 3,360 |
| 025 | 4,000 | | 0,281 | 4,000 |
| 027 | 3,140 | | -1,165 | 3,140 |
| 029 | 4,320 | | 0,754 | 4,320 |
| 034 | 4,000 | | 0,281 | 4,000 |
| 035 | 3,760 | | -0,087 | 3,760 |
| 039 | 3,750 | | -0,104 | 3,750 |
| 040 | 3,680 | | -0,226 | 3,680 |
| 045 | 2,810 | | -1,739 | 2,810 |
| 046 | 3,930 | | 0,178 | 3,930 |
| 055 | 3,700 | | -0,191 | 3,700 |
| 059 | 3,550 | | -0,452 | 3,550 |
| 060 | 3,570 | | -0,417 | 3,570 |
| 063 | 2,800 | | -1,756 | 2,800 |
| 066 | 4,490 | | 1,006 | 4,490 |
| 068 | 4,300 | | 0,725 | 4,300 |
| 073 | 3,400 | | -0,713 | 3,400 |
| 075 | 4,540 | | 1,080 | 4,540 |
| 077 | 4,520 | | 1,050 | 4,520 |
| 081 | 4,630 | | 1,213 | 4,630 |
| 082 | 4,030 | | 0,326 | 4,030 |
| 087 | 3,560 | | -0,435 | 3,560 |
| 088 | 5,050 | | 1,834 | 5,050 |
| 091 | 4,110 | | 0,444 | 4,110 |
| 092 | 2,773 | | -1,803 | 2,773 |
| 096 | 3,440 | | -0,643 | 3,440 |
| 097 | 4,080 | | 0,399 | 4,080 |
| 100 | 3,950 | | 0,207 | 3,950 |
| 102 | 3,860 | | 0,074 | 3,860 |
| 105 | 3,409 | | -0,697 | 3,409 |
| 107 | 4,040 | | 0,340 | 4,040 |
| 108 | 3,970 | | 0,237 | 3,970 |
| 110 | 4,070 | | 0,385 | 4,070 |
| 115 | 4,700 | | 1,317 | 4,700 |
| 116 | 3,475 | | -0,582 | 3,475 |
| 117 | 3,550 | | -0,452 | 3,550 |
| 121 | 2,890 | | -1,600 | 2,890 |
| 122 | 4,939 | | 1,670 | 4,939 |
| 123 | 5,700 | | 2,796 | 5,700 |
| 125 | 3,360 | | -0,782 | 3,360 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 1 Sollwert: 6,913 µg/L (empirischer Wert)
 Merkmal: Dibromchlormethan Rel. Soll-Stdabw.: 15,21% (Limited)
 Anzahl Labore in Berechnung: 46 Toleranzbereich: 4,947 - 9,202 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 6,640 | | -0,278 | 6,640 |
| 004 | 6,810 | | -0,105 | 6,810 |
| 007 | 5,150 | | -1,794 | 5,150 |
| 012 | 6,810 | | -0,105 | 6,810 |
| 013 | 6,640 | | -0,278 | 6,640 |
| 014 | 6,090 | | -0,837 | 6,090 |
| 017 | 5,020 | | -1,926 | 5,020 |
| 025 | 7,000 | | 0,076 | 7,000 |
| 027 | 5,340 | | -1,600 | 5,340 |
| 029 | 7,660 | | 0,653 | 7,660 |
| 034 | 6,560 | | -0,359 | 6,560 |
| 035 | 6,830 | | -0,085 | 6,830 |
| 039 | 6,570 | | -0,349 | 6,570 |
| 040 | 6,710 | | -0,207 | 6,710 |
| 045 | 9,620 | | 2,366 | 9,620 |
| 046 | 7,190 | | 0,242 | 7,190 |
| 055 | 6,620 | | -0,298 | 6,620 |
| 059 | 6,120 | | -0,807 | 6,120 |
| 060 | 6,590 | | -0,329 | 6,590 |
| 063 | 5,980 | | -0,949 | 5,980 |
| 066 | 8,480 | | 1,369 | 8,480 |
| 068 | 7,930 | | 0,889 | 7,930 |
| 073 | 6,240 | | -0,685 | 6,240 |
| 075 | 7,820 | | 0,793 | 7,820 |
| 077 | 7,950 | | 0,906 | 7,950 |
| 081 | 8,550 | | 1,431 | 8,550 |
| 082 | 7,330 | | 0,364 | 7,330 |
| 087 | 6,420 | | -0,502 | 6,420 |
| 088 | 9,980 | | 2,680 | 9,980 |
| 091 | 5,980 | | -0,949 | 5,980 |
| 092 | 4,735 | | -2,216 | 4,735 |
| 096 | 6,200 | | -0,726 | 6,200 |
| 097 | 7,720 | | 0,705 | 7,720 |
| 100 | 7,630 | | 0,626 | 7,630 |
| 102 | 6,910 | | -0,003 | 6,910 |
| 105 | 6,230 | | -0,695 | 6,230 |
| 107 | 8,320 | | 1,230 | 8,320 |
| 108 | 8,640 | | 1,509 | 8,640 |
| 110 | 7,800 | | 0,775 | 7,800 |
| 115 | 7,450 | | 0,469 | 7,450 |
| 116 | 6,493 | | -0,427 | 6,493 |
| 117 | 6,000 | | -0,929 | 6,000 |
| 121 | 6,300 | | -0,624 | 6,300 |
| 122 | 7,855 | | 0,823 | 7,855 |
| 123 | 6,830 | | -0,085 | 6,830 |
| 125 | 5,990 | | -0,939 | 5,990 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 1 **Sollwert:** 7,775 µg/L (empirischer Wert)
Merkmal: Tribrommethan **Rel. Soll-Stdabw.:** 17,03% (Limited)
Anzahl Labore in Berechnung: 46 **Toleranzbereich:** 5,317 - 10,690 µg/L ($|\text{Zu-Score}| \leq 2,000$)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 7,940 | | 0,113 | 7,940 |
| 004 | 7,440 | | -0,273 | 7,440 |
| 007 | 5,620 | | -1,753 | 5,620 |
| 012 | 7,620 | | -0,126 | 7,620 |
| 013 | 7,220 | | -0,452 | 7,220 |
| 014 | 7,320 | | -0,371 | 7,320 |
| 017 | 5,510 | | -1,843 | 5,510 |
| 025 | 8,150 | | 0,257 | 8,150 |
| 027 | 6,110 | | -1,355 | 6,110 |
| 029 | 8,560 | | 0,538 | 8,560 |
| 034 | 7,880 | | 0,072 | 7,880 |
| 035 | 7,710 | | -0,053 | 7,710 |
| 039 | 7,610 | | -0,135 | 7,610 |
| 040 | 5,450 | | -1,892 | 5,450 |
| 045 | 5,480 | | -1,867 | 5,480 |
| 046 | 8,240 | | 0,319 | 8,240 |
| 055 | 11,600 | | 2,625 | 11,600 |
| 059 | 6,740 | | -0,842 | 6,740 |
| 060 | 7,670 | | -0,086 | 7,670 |
| 063 | 8,120 | | 0,236 | 8,120 |
| 066 | 9,770 | | 1,369 | 9,770 |
| 068 | 8,570 | | 0,545 | 8,570 |
| 073 | 7,400 | | -0,305 | 7,400 |
| 075 | 8,390 | | 0,422 | 8,390 |
| 077 | 8,960 | | 0,813 | 8,960 |
| 081 | 9,350 | | 1,081 | 9,350 |
| 082 | 10,200 | | 1,664 | 10,200 |
| 087 | 7,280 | | -0,403 | 7,280 |
| 088 | 12,200 | | 3,037 | 12,200 |
| 091 | 7,140 | | -0,517 | 7,140 |
| 092 | 5,840 | | -1,574 | 5,840 |
| 096 | 7,060 | | -0,582 | 7,060 |
| 097 | 8,530 | | 0,518 | 8,530 |
| 100 | 9,100 | | 0,909 | 9,100 |
| 102 | 7,670 | | -0,086 | 7,670 |
| 105 | 7,065 | | -0,578 | 7,065 |
| 107 | 9,740 | | 1,348 | 9,740 |
| 108 | 9,900 | | 1,458 | 9,900 |
| 110 | 9,250 | | 1,012 | 9,250 |
| 115 | 7,990 | | 0,147 | 7,990 |
| 116 | 7,351 | | -0,345 | 7,351 |
| 117 | 6,220 | | -1,265 | 6,220 |
| 121 | 6,750 | | -0,834 | 6,750 |
| 122 | 7,744 | | -0,026 | 7,744 |
| 123 | 7,770 | | -0,004 | 7,770 |
| 125 | 6,660 | | -0,907 | 6,660 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 1 Sollwert: 2,210 µg/L (empirischer Wert)
 Merkmal: Benzol Rel. Soll-Stdabw.: 18,94% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 1,438 - 3,142 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 2,010 | | -0,517 | 2,010 |
| 004 | 2,330 | | 0,258 | 2,330 |
| 007 | 1,880 | | -0,854 | 1,880 |
| 012 | 2,580 | | 0,794 | 2,580 |
| 013 | 1,850 | | -0,932 | 1,850 |
| 014 | 1,800 | | -1,062 | 1,800 |
| 017 | 2,000 | | -0,543 | 2,000 |
| 025 | 2,260 | | 0,108 | 2,260 |
| 027 | 2,420 | | 0,451 | 2,420 |
| 029 | 2,040 | | -0,440 | 2,040 |
| 034 | 2,350 | | 0,301 | 2,350 |
| 035 | 2,080 | | -0,336 | 2,080 |
| 039 | 2,410 | | 0,430 | 2,410 |
| 040 | 1,400 | | -2,098 | 1,400 |
| 045 | 3,990 | | 3,819 | 3,990 |
| 046 | 2,220 | | 0,022 | 2,220 |
| 055 | 2,010 | | -0,517 | 2,010 |
| 059 | 2,090 | | -0,310 | 2,090 |
| 060 | 2,890 | | 1,459 | 2,890 |
| 063 | 2,060 | | -0,388 | 2,060 |
| 066 | 2,480 | | 0,580 | 2,480 |
| 068 | 2,490 | | 0,601 | 2,490 |
| 073 | 1,960 | | -0,647 | 1,960 |
| 075 | 2,460 | | 0,537 | 2,460 |
| 077 | 2,300 | | 0,194 | 2,300 |
| 081 | 2,830 | | 1,331 | 2,830 |
| 087 | 2,230 | | 0,044 | 2,230 |
| 088 | 1,810 | | -1,036 | 1,810 |
| 091 | 2,170 | | -0,103 | 2,170 |
| 092 | 2,083 | | -0,328 | 2,083 |
| 096 | 15,200 | | 27,866 | 15,200 |
| 097 | 2,550 | | 0,730 | 2,550 |
| 100 | 2,270 | | 0,129 | 2,270 |
| 102 | 2,040 | | -0,440 | 2,040 |
| 105 | 2,022 | | -0,486 | 2,022 |
| 107 | 1,730 | | -1,243 | 1,730 |
| 108 | 2,780 | | 1,223 | 2,780 |
| 110 | 2,060 | | -0,388 | 2,060 |
| 115 | 1,700 | | -1,321 | 1,700 |
| 116 | 2,543 | | 0,715 | 2,543 |
| 121 | 7,920 | | 12,250 | 7,920 |
| 122 | 2,369 | | 0,342 | 2,369 |
| 123 | 3,330 | | 2,403 | 3,330 |
| 125 | 1,970 | | -0,621 | 1,970 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 1 **Sollwert:** 10,181 µg/L (empirischer Wert)
Merkmal: Vinylchlorid **Rel. Soll-Stdabw.:** 25,00% (Limited)
Anzahl Labore in Berechnung: 31 **Toleranzbereich:** 5,581 - 16,086 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 8,640 | | -0,670 | 8,640 |
| 004 | 11,500 | | 0,447 | 11,500 |
| 007 | 8,380 | | -0,783 | 8,380 |
| 012 | 15,430 | | 1,778 | 15,430 |
| 013 | 11,000 | | 0,277 | 11,000 |
| 017 | 8,530 | | -0,718 | 8,530 |
| 025 | 9,450 | | -0,318 | 9,450 |
| 034 | 8,980 | | -0,522 | 8,980 |
| 039 | 7,170 | | -1,309 | 7,170 |
| 040 | 5,350 | | -2,100 | 5,350 |
| 046 | 9,510 | | -0,292 | 9,510 |
| 055 | 73,500 | | 21,445 | 73,500 |
| 059 | 10,100 | | -0,035 | 10,100 |
| 060 | 8,830 | | -0,587 | 8,830 |
| 063 | 7,680 | | -1,087 | 7,680 |
| 066 | 10,400 | | 0,074 | 10,400 |
| 068 | 17,590 | | 2,509 | 17,590 |
| 073 | 8,030 | | -0,935 | 8,030 |
| 081 | 15,900 | | 1,937 | 15,900 |
| 087 | 9,910 | | -0,118 | 9,910 |
| 088 | 0,200 | | -4,340 | 0,200 |
| 091 | 16,800 | | 2,242 | 16,800 |
| 092 | 10,770 | | 0,200 | 10,770 |
| 096 | | | | |
| 097 | 10,200 | | 0,007 | 10,200 |
| 102 | 15,200 | | 1,700 | 15,200 |
| 105 | 6,356 | | -1,663 | 6,356 |
| 108 | 10,100 | | -0,035 | 10,100 |
| 110 | 10,100 | | -0,035 | 10,100 |
| 122 | 11,230 | | 0,355 | 11,230 |
| 123 | 9,880 | | -0,131 | 9,880 |
| 125 | 13,140 | | 1,002 | 13,140 |

Probe 2

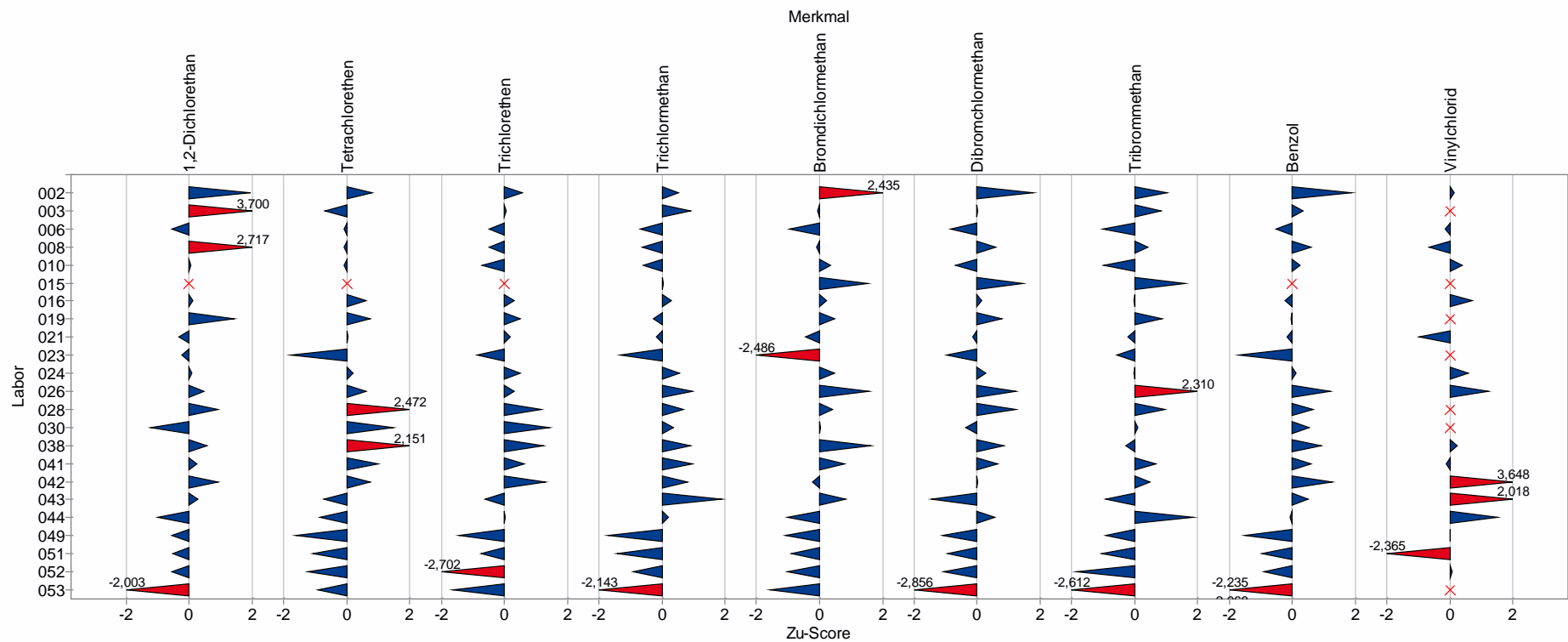
Kennwerte – Probe 2

Tabelle

| Probe 2 | Einheit | Anzahl der Labore | Sollwert | Soll-Stdabw. | Vergleich-Stdabw. | Rel. Soll-Stdabw. | Rel. Vergleich-Stdabw. | unt. Toleranzgr. | ob. Toleranzgr. | Messunsicherheit MU |
|-------------------|---------|-------------------|----------|--------------|-------------------|-------------------|------------------------|------------------|-----------------|---------------------|
| 1,2-Dichlorethan | µg/L | 44 | 2,729 | 0,433 | 0,433 | 15,87 % | 15,87 % | 1,921 | 3,676 | 2,99 % |
| Tetrachlorethen | µg/L | 44 | 4,158 | 0,550 | 0,550 | 13,23 % | 13,23 % | 3,121 | 5,341 | 2,49 % |
| Trichlorethen | µg/L | 44 | 10,225 | 1,395 | 1,395 | 13,64 % | 13,64 % | 7,601 | 13,232 | 2,57 % |
| Trichlormethan | µg/L | 45 | 11,214 | 1,239 | 1,239 | 11,05 % | 11,05 % | 8,859 | 13,845 | 2,06 % |
| Bromdichlormethan | µg/L | 45 | 4,321 | 0,439 | 0,439 | 10,16 % | 10,16 % | 3,484 | 5,248 | 1,89 % |
| Dibromchlormethan | µg/L | 45 | 8,061 | 0,922 | 0,922 | 11,44 % | 11,44 % | 6,310 | 10,023 | 2,13 % |
| Tribrommethan | µg/L | 45 | 9,398 | 1,359 | 1,359 | 14,46 % | 14,46 % | 6,850 | 12,343 | 2,69 % |
| Benzol | µg/L | 44 | 2,726 | 0,384 | 0,384 | 14,09 % | 14,09 % | 2,005 | 3,556 | 2,65 % |
| Vinylchlorid | µg/L | 30 | 10,884 | 2,721 | 3,290 | 25,00 % | 30,23 % | 5,966 | 17,197 | 6,90 % |

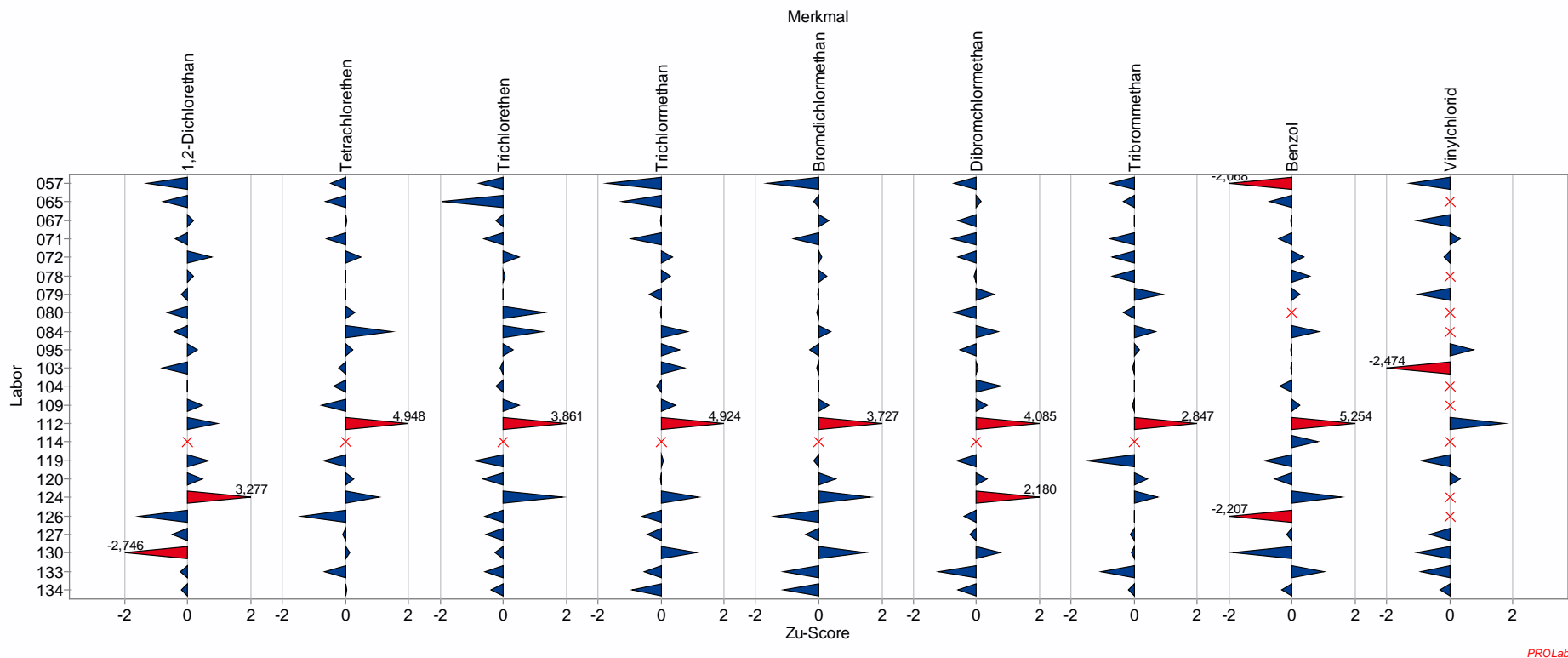
Übersicht z_U-Scores

Graphik 2a: z_U-scores Probe2, Teil 1



PROLab

Graphik 2a: zU-scores Probe2, Teil 2



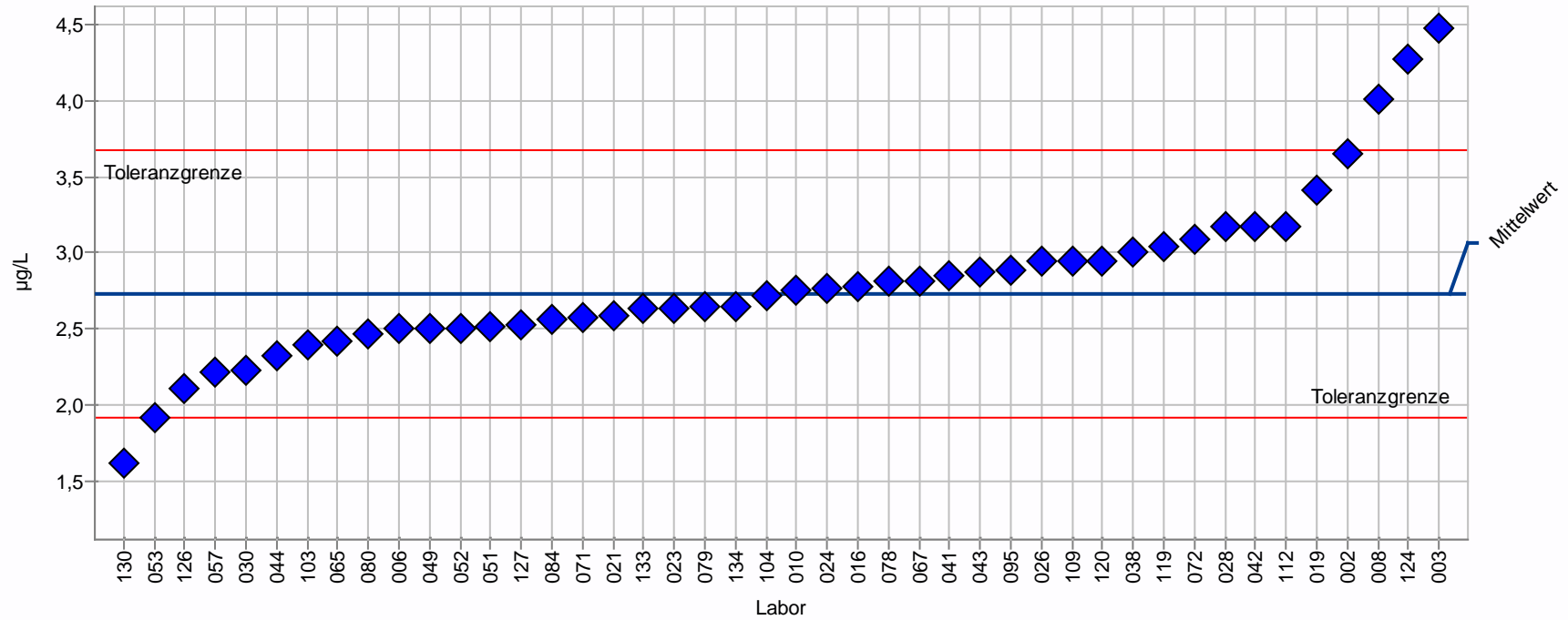
PROLab

Einzeldarstellung der Parameter

Grafik und Tabelle

Abbildung 10: Mittelwerte + Stdabw. für Niveau 2, 1,2-Dichlorethan

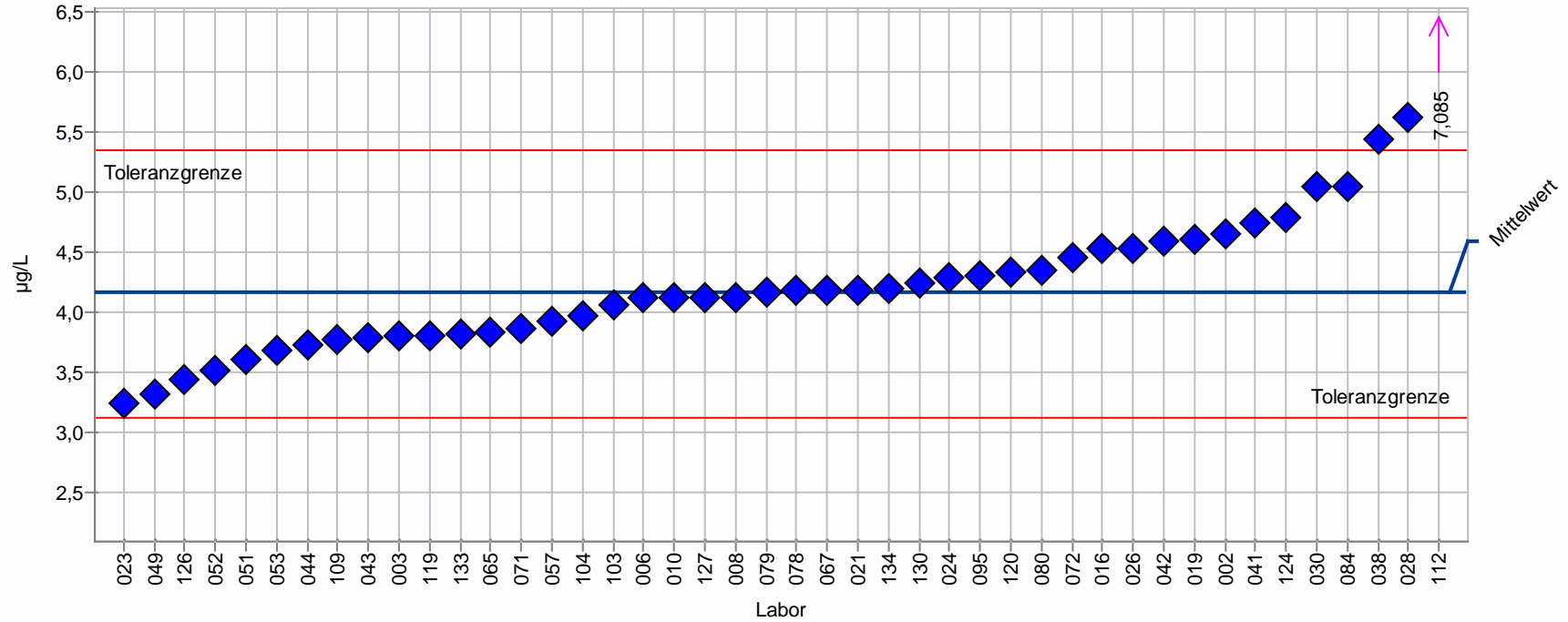
Probe: Niveau 2 Sollwert: 2,729 µg/L (empirischer Wert)
 Merkmal: 1,2-Dichlorethan Rel. Soll-Stdabw.: 15,87% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 1,921 - 3,676 µg/L ($|Zu-Score| \leq 2,000$)



PROLab

Abbildung 11: Mittelwerte + Stdabw. für Niveau 2, Tetrachlorethen

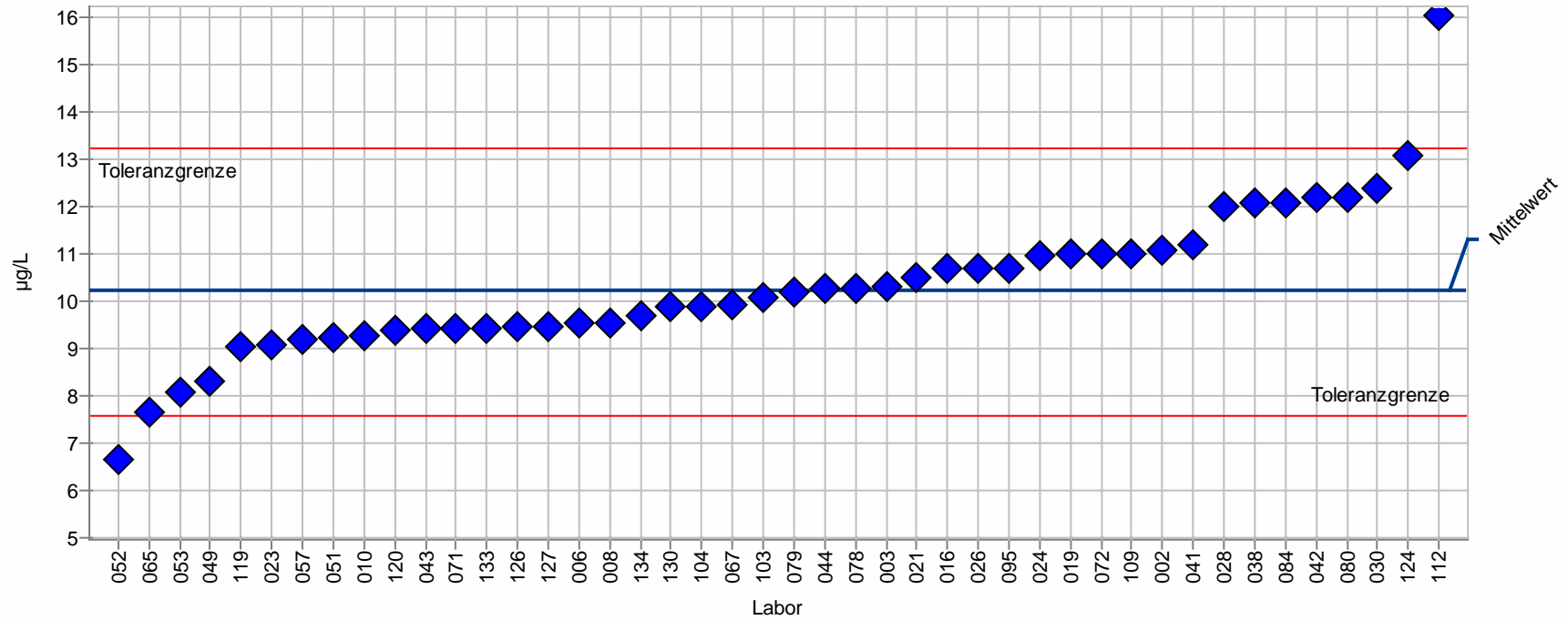
Probe: Niveau 2 Sollwert: 4,158 µg/L (empirischer Wert)
 Merkmal: Tetrachlorethen Rel. Soll-Stdabw.: 13,23% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 3,121 - 5,341 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 12: Mittelwerte + Stdabw. für Niveau 2, Trichlorethen

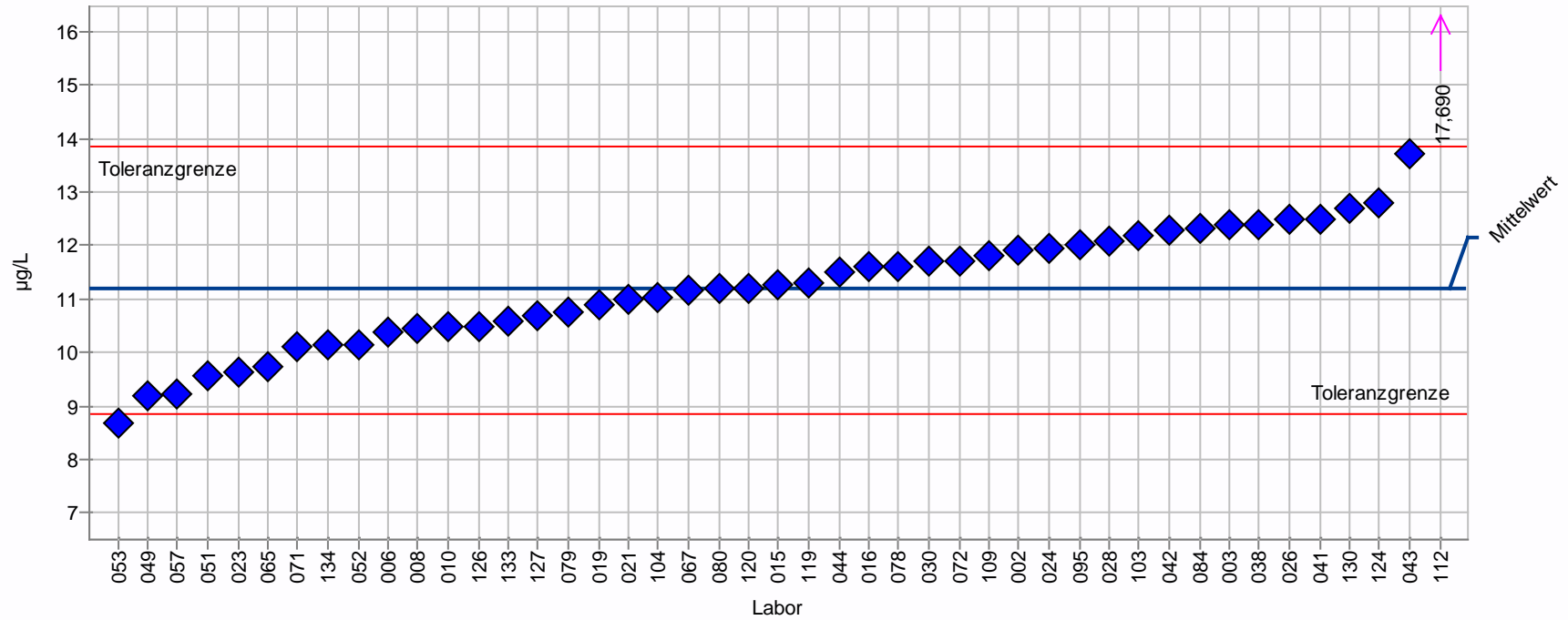
Probe: Niveau 2 Solw ert: 10,225 µg/L (empirischer Wert)
 Merkmal: Trichlorethen Rel. Soll-Stdabw.: 13,64% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 7,601 - 13,232 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 13: Mittelwerte + Stdabw. für Niveau 2, Trichlormethan

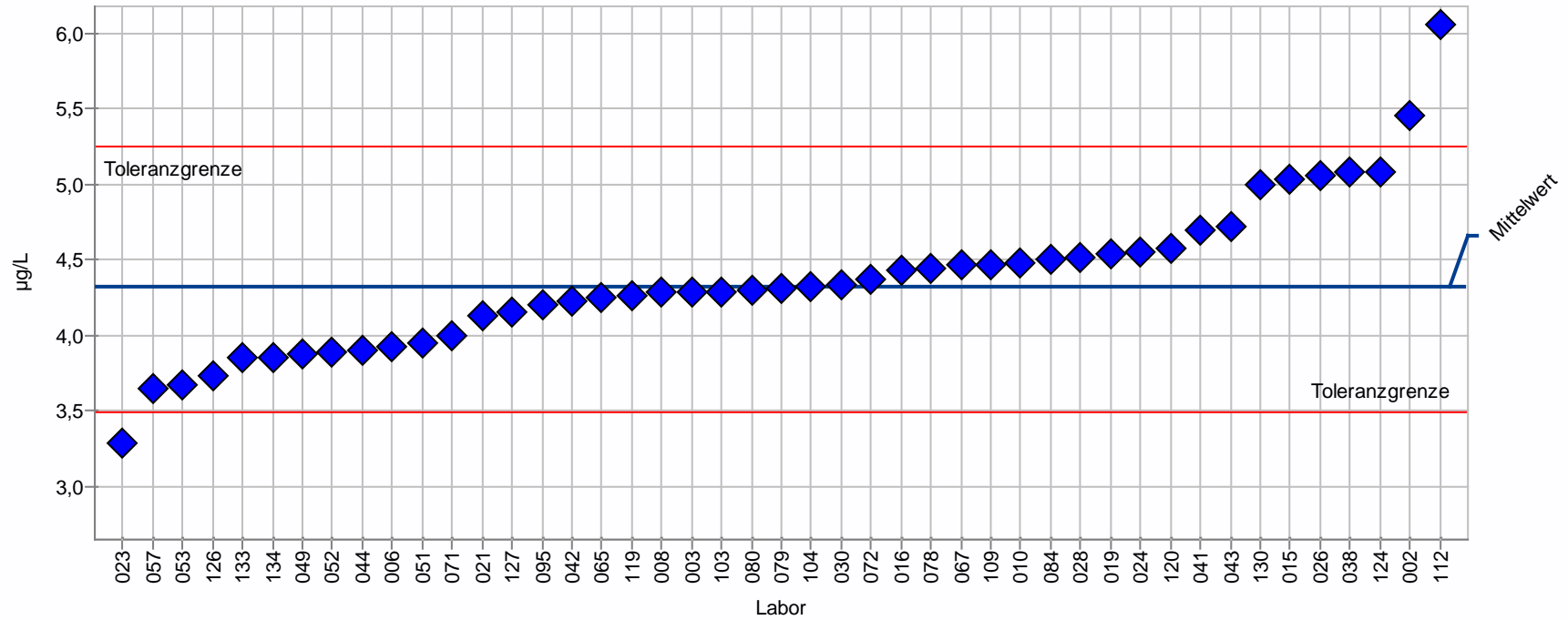
Probe: Niveau 2 Sollwert: 11,214 µg/L (empirischer Wert)
 Merkmal: Trichlormethan Rel. Soll-Stdabw.: 11,05% (Limited)
 Anzahl Labore in Berechnung: 45 Toleranzbereich: 8,859 - 13,845 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 14: Mittelwerte + Stdabw. für Niveau 2, Bromdichlormethan

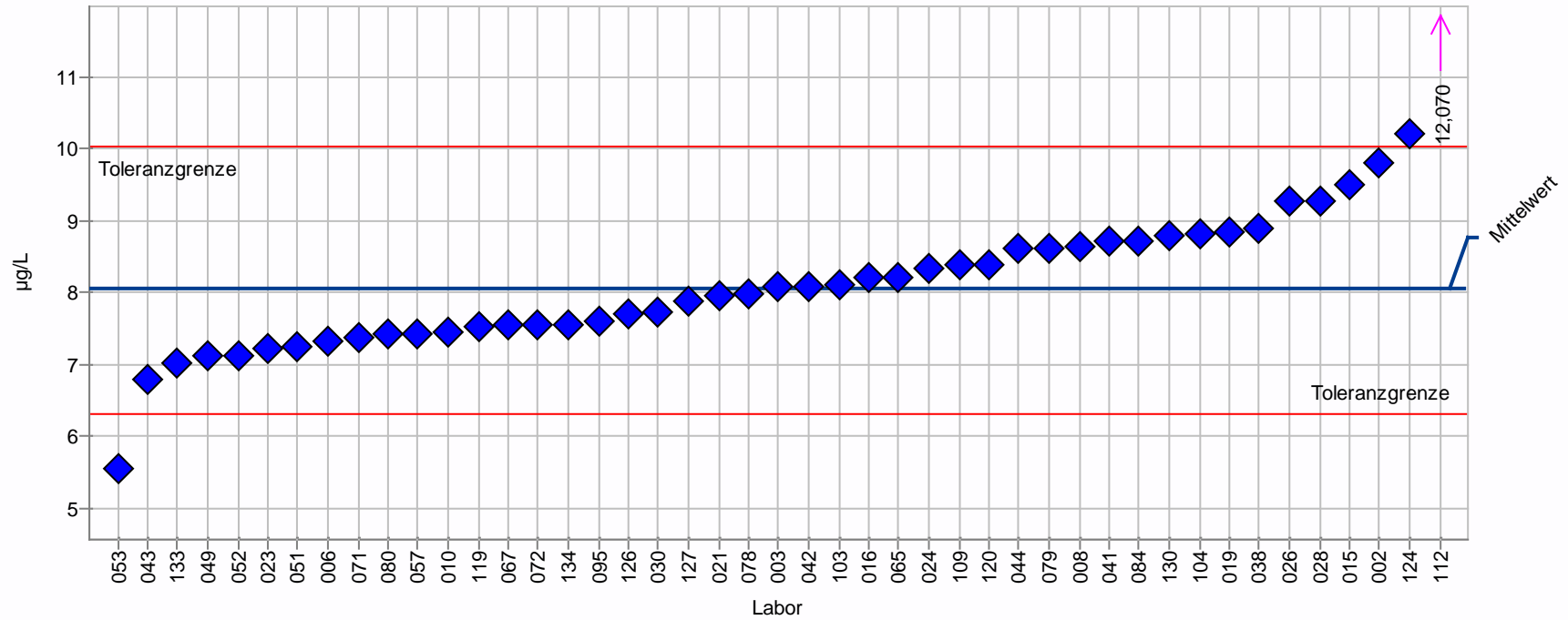
Probe: Niveau 2 Sollwert: 4,321 µg/L (empirischer Wert)
 Merkmal: Bromdichlormethan Rel. Soll-Stdabw.: 10,16% (Limited)
 Anzahl Labore in Berechnung: 45 Toleranzbereich: 3,484 - 5,248 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 15: Mittelwerte + Stdabw. für Niveau 2, Dibromchlormethan

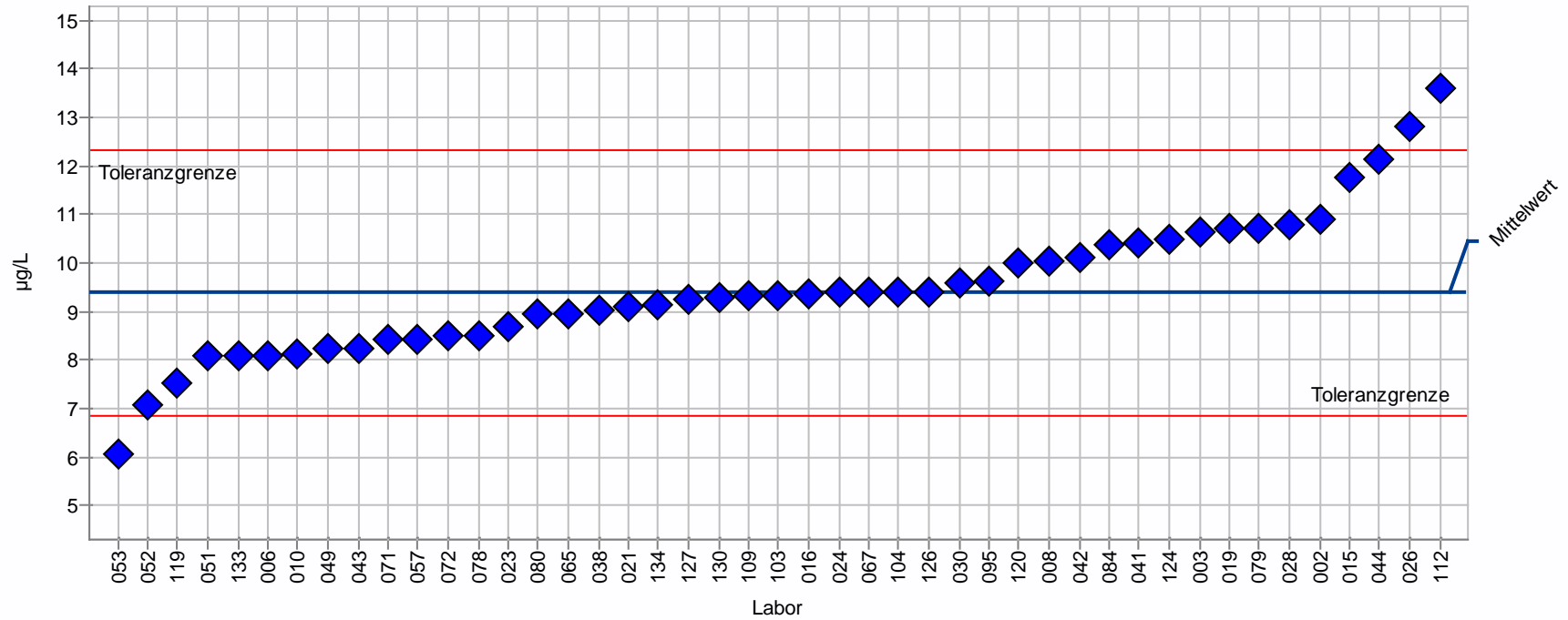
Probe: Niveau 2
 Merkmal: Dibromchlormethan
 Anzahl Labore in Berechnung: 45
 Sollwert: 8,061 µg/L (empirischer Wert)
 Rel. Soll-Stdabw.: 11,44% (Limited)
 Toleranzbereich: 6,310 - 10,023 µg/L ($|Z\text{-Score}| \leq 2,000$)



PROLab

Abbildung 16: Mittelwerte + Stdabw. für Niveau 2, Tribrommethan

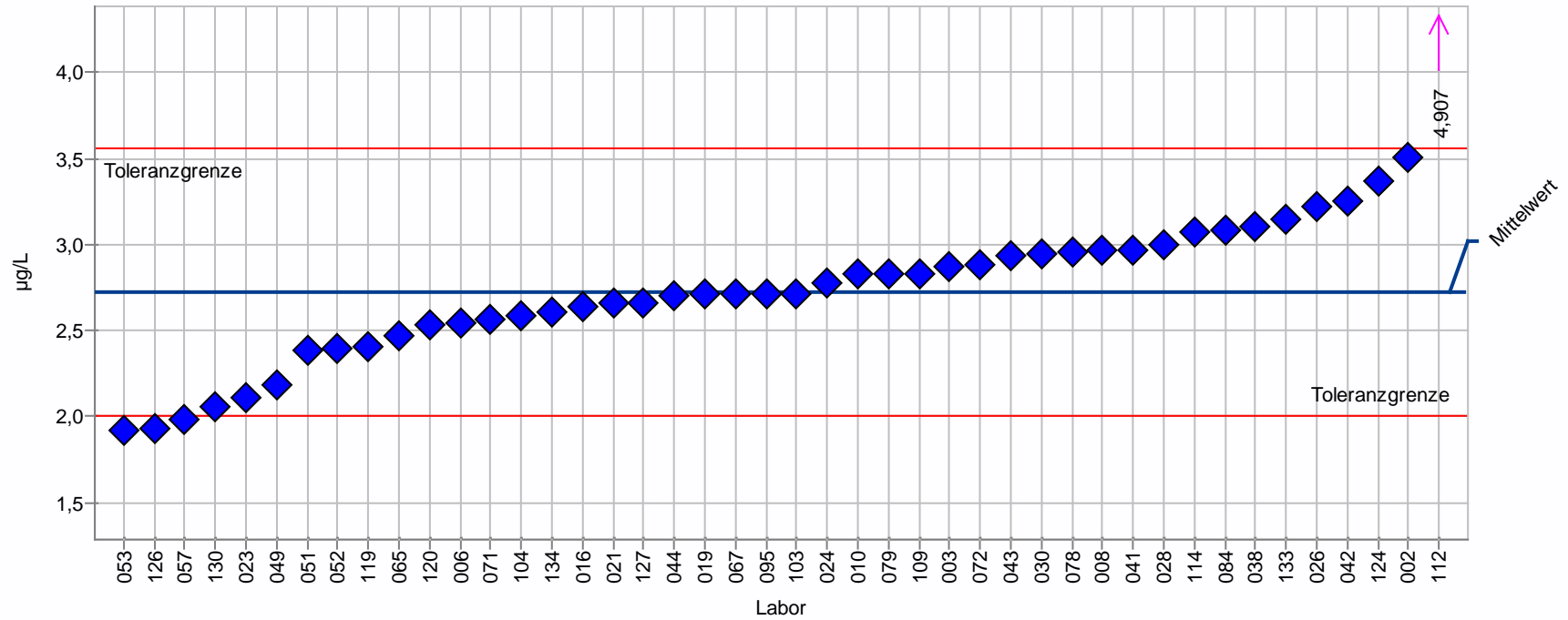
Probe: Niveau 2 Sollwert: 9,398 µg/L (empirischer Wert)
 Merkmal: Tribrommethan Rel. Soll-Stdabw.: 14,46% (Limited)
 Anzahl Labore in Berechnung: 45 Toleranzbereich: 6,850 - 12,343 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 17: Mittelwerte + Stdabw. für Niveau 2, Benzol

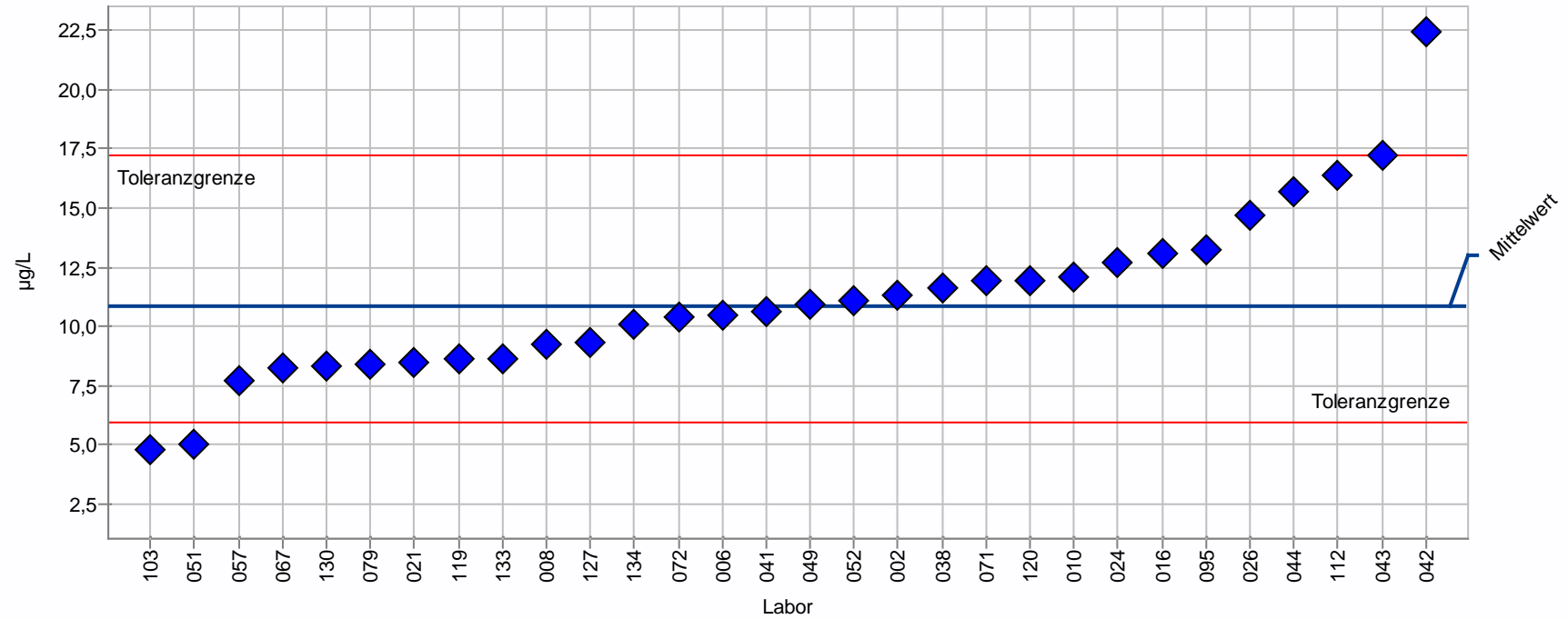
Probe: Niveau 2 Sollwert: 2,726 µg/L (empirischer Wert)
 Merkmal: Benzol Rel. Soll-Stdabw.: 14,09% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 2,005 - 3,556 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 18: Mittelwerte + Stdabw. für Niveau 2, Vinylchlorid

Probe: Niveau 2 Sollwert: 10,884 µg/L (empirischer Wert)
 Merkmal: Vinylchlorid Rel. Soll-Stdabw.: 25,00% (Limited)
 Anzahl Labore in Berechnung: 30 Toleranzbereich: 5,966 - 17,197 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 2 **Sollwert:** 2,729 µg/L (empirischer Wert)
Merkmal: 1,2-Dichlorethan **Rel. Soll-Stdabw.:** 15,87% (Limited)
Anzahl Labore in Berechnung: 44 **Toleranzbereich:** 1,921 - 3,676 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 3,650 | | 1,946 | 3,650 |
| 003 | 4,480 | | 3,700 | 4,480 |
| 006 | 2,500 | | -0,567 | 2,500 |
| 008 | 4,015 | | 2,717 | 4,015 |
| 010 | 2,750 | | 0,044 | 2,750 |
| 016 | 2,780 | | 0,108 | 2,780 |
| 019 | 3,410 | | 1,439 | 3,410 |
| 021 | 2,590 | | -0,344 | 2,590 |
| 023 | 2,640 | | -0,221 | 2,640 |
| 024 | 2,765 | | 0,076 | 2,765 |
| 026 | 2,950 | | 0,467 | 2,950 |
| 028 | 3,170 | | 0,932 | 3,170 |
| 030 | 2,230 | | -1,236 | 2,230 |
| 038 | 3,000 | | 0,572 | 3,000 |
| 041 | 2,850 | | 0,255 | 2,850 |
| 042 | 3,170 | | 0,932 | 3,170 |
| 043 | 2,868 | | 0,294 | 2,868 |
| 044 | 2,326 | | -0,998 | 2,326 |
| 049 | 2,500 | | -0,567 | 2,500 |
| 051 | 2,520 | | -0,518 | 2,520 |
| 052 | 2,500 | | -0,567 | 2,500 |
| 053 | 1,920 | | -2,003 | 1,920 |
| 057 | 2,210 | | -1,285 | 2,210 |
| 065 | 2,416 | | -0,775 | 2,416 |
| 067 | 2,813 | | 0,177 | 2,813 |
| 071 | 2,570 | | -0,394 | 2,570 |
| 072 | 3,090 | | 0,763 | 3,090 |
| 078 | 2,810 | | 0,171 | 2,810 |
| 079 | 2,645 | | -0,208 | 2,645 |
| 080 | 2,470 | | -0,641 | 2,470 |
| 084 | 2,561 | | -0,416 | 2,561 |
| 095 | 2,880 | | 0,319 | 2,880 |
| 103 | 2,400 | | -0,815 | 2,400 |
| 104 | 2,720 | | -0,023 | 2,720 |
| 109 | 2,950 | | 0,467 | 2,950 |
| 112 | 3,177 | | 0,946 | 3,177 |
| 119 | 3,040 | | 0,657 | 3,040 |
| 120 | 2,950 | | 0,467 | 2,950 |
| 124 | 4,280 | | 3,277 | 4,280 |
| 126 | 2,110 | | -1,533 | 2,110 |
| 127 | 2,530 | | -0,493 | 2,530 |
| 130 | 1,620 | | -2,746 | 1,620 |
| 133 | 2,630 | | -0,245 | 2,630 |
| 134 | 2,650 | | -0,196 | 2,650 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 2 **Sollwert:** 4,158 µg/L (empirischer Wert)
Merkmal: Tetrachlorethen **Rel. Soll-Stdabw.:** 13,23% (Limited)
Anzahl Labore in Berechnung: 44 **Toleranzbereich:** 3,121 - 5,341 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 4,640 | | 0,816 | 4,640 |
| 003 | 3,800 | | -0,690 | 3,800 |
| 006 | 4,110 | | -0,092 | 4,110 |
| 008 | 4,120 | | -0,072 | 4,120 |
| 010 | 4,110 | | -0,092 | 4,110 |
| 016 | 4,530 | | 0,630 | 4,530 |
| 019 | 4,600 | | 0,748 | 4,600 |
| 021 | 4,180 | | 0,038 | 4,180 |
| 023 | 3,240 | | -1,770 | 3,240 |
| 024 | 4,282 | | 0,210 | 4,282 |
| 026 | 4,530 | | 0,630 | 4,530 |
| 028 | 5,620 | | 2,472 | 5,620 |
| 030 | 5,040 | | 1,492 | 5,040 |
| 038 | 5,430 | | 2,151 | 5,430 |
| 041 | 4,740 | | 0,985 | 4,740 |
| 042 | 4,590 | | 0,731 | 4,590 |
| 043 | 3,778 | | -0,732 | 3,778 |
| 044 | 3,719 | | -0,846 | 3,719 |
| 049 | 3,310 | | -1,635 | 3,310 |
| 051 | 3,600 | | -1,076 | 3,600 |
| 052 | 3,510 | | -1,249 | 3,510 |
| 053 | 3,680 | | -0,921 | 3,680 |
| 057 | 3,920 | | -0,458 | 3,920 |
| 065 | 3,832 | | -0,628 | 3,832 |
| 067 | 4,172 | | 0,024 | 4,172 |
| 071 | 3,850 | | -0,593 | 3,850 |
| 072 | 4,450 | | 0,494 | 4,450 |
| 078 | 4,170 | | 0,021 | 4,170 |
| 079 | 4,165 | | 0,013 | 4,165 |
| 080 | 4,340 | | 0,308 | 4,340 |
| 084 | 5,040 | | 1,492 | 5,040 |
| 095 | 4,300 | | 0,241 | 4,300 |
| 103 | 4,050 | | -0,207 | 4,050 |
| 104 | 3,960 | | -0,381 | 3,960 |
| 109 | 3,770 | | -0,748 | 3,770 |
| 112 | 7,085 | | 4,948 | 7,085 |
| 119 | 3,800 | | -0,690 | 3,800 |
| 120 | 4,320 | | 0,275 | 4,320 |
| 124 | 4,780 | | 1,052 | 4,780 |
| 126 | 3,440 | | -1,384 | 3,440 |
| 127 | 4,110 | | -0,092 | 4,110 |
| 130 | 4,230 | | 0,122 | 4,230 |
| 133 | 3,810 | | -0,670 | 3,810 |
| 134 | 4,190 | | 0,055 | 4,190 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 2 **Sollwert:** 10,225 µg/L (empirischer Wert)
Merkmal: Trichlorethen **Rel. Soll-Stdabw.:** 13,64% (Limited)
Anzahl Labore in Berechnung: 44 **Toleranzbereich:** 7,601 - 13,232 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 11,100 | | 0,582 | 11,100 |
| 003 | 10,320 | | 0,063 | 10,320 |
| 006 | 9,570 | | -0,499 | 9,570 |
| 008 | 9,570 | | -0,499 | 9,570 |
| 010 | 9,300 | | -0,705 | 9,300 |
| 016 | 10,700 | | 0,316 | 10,700 |
| 019 | 11,000 | | 0,516 | 11,000 |
| 021 | 10,500 | | 0,183 | 10,500 |
| 023 | 9,090 | | -0,865 | 9,090 |
| 024 | 10,980 | | 0,502 | 10,980 |
| 026 | 10,700 | | 0,316 | 10,700 |
| 028 | 12,000 | | 1,181 | 12,000 |
| 030 | 12,400 | | 1,447 | 12,400 |
| 038 | 12,100 | | 1,247 | 12,100 |
| 041 | 11,200 | | 0,649 | 11,200 |
| 042 | 12,200 | | 1,314 | 12,200 |
| 043 | 9,425 | | -0,610 | 9,425 |
| 044 | 10,279 | | 0,036 | 10,279 |
| 049 | 8,340 | | -1,437 | 8,340 |
| 051 | 9,250 | | -0,743 | 9,250 |
| 052 | 6,680 | | -2,702 | 6,680 |
| 053 | 8,080 | | -1,635 | 8,080 |
| 057 | 9,200 | | -0,781 | 9,200 |
| 065 | 7,660 | | -1,955 | 7,660 |
| 067 | 9,923 | | -0,230 | 9,923 |
| 071 | 9,430 | | -0,606 | 9,430 |
| 072 | 11,000 | | 0,516 | 11,000 |
| 078 | 10,300 | | 0,050 | 10,300 |
| 079 | 10,220 | | -0,004 | 10,220 |
| 080 | 12,200 | | 1,314 | 12,200 |
| 084 | 12,102 | | 1,248 | 12,102 |
| 095 | 10,700 | | 0,316 | 10,700 |
| 103 | 10,100 | | -0,095 | 10,100 |
| 104 | 9,910 | | -0,240 | 9,910 |
| 109 | 11,000 | | 0,516 | 11,000 |
| 112 | 16,030 | | 3,861 | 16,030 |
| 119 | 9,050 | | -0,896 | 9,050 |
| 120 | 9,400 | | -0,629 | 9,400 |
| 124 | 13,070 | | 1,892 | 13,070 |
| 126 | 9,470 | | -0,575 | 9,470 |
| 127 | 9,490 | | -0,560 | 9,490 |
| 130 | 9,890 | | -0,255 | 9,890 |
| 133 | 9,450 | | -0,591 | 9,450 |
| 134 | 9,710 | | -0,392 | 9,710 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 2 **Sollwert:** 11,214 µg/L (empirischer Wert)
Merkmal: Trichlormethan **Rel. Soll-Stdabw.:** 11,05% (Limited)
Anzahl Labore in Berechnung: 45 **Toleranzbereich:** 8,859 - 13,845 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 11,900 | | 0,521 | 11,900 |
| 003 | 12,400 | | 0,902 | 12,400 |
| 006 | 10,400 | | -0,691 | 10,400 |
| 008 | 10,460 | | -0,640 | 10,460 |
| 010 | 10,500 | | -0,606 | 10,500 |
| 015 | 11,280 | | 0,050 | 11,280 |
| 016 | 11,600 | | 0,293 | 11,600 |
| 019 | 10,900 | | -0,267 | 10,900 |
| 021 | 11,000 | | -0,182 | 11,000 |
| 023 | 9,640 | | -1,337 | 9,640 |
| 024 | 11,932 | | 0,546 | 11,932 |
| 026 | 12,500 | | 0,978 | 12,500 |
| 028 | 12,100 | | 0,673 | 12,100 |
| 030 | 11,700 | | 0,369 | 11,700 |
| 038 | 12,400 | | 0,902 | 12,400 |
| 041 | 12,500 | | 0,978 | 12,500 |
| 042 | 12,300 | | 0,825 | 12,300 |
| 043 | 13,731 | | 1,913 | 13,731 |
| 044 | 11,504 | | 0,220 | 11,504 |
| 049 | 9,180 | | -1,727 | 9,180 |
| 051 | 9,550 | | -1,413 | 9,550 |
| 052 | 10,150 | | -0,904 | 10,150 |
| 053 | 8,690 | | -2,143 | 8,690 |
| 057 | 9,210 | | -1,702 | 9,210 |
| 065 | 9,752 | | -1,242 | 9,752 |
| 067 | 11,174 | | -0,034 | 11,174 |
| 071 | 10,100 | | -0,946 | 10,100 |
| 072 | 11,700 | | 0,369 | 11,700 |
| 078 | 11,600 | | 0,293 | 11,600 |
| 079 | 10,770 | | -0,377 | 10,770 |
| 080 | 11,200 | | -0,012 | 11,200 |
| 084 | 12,317 | | 0,838 | 12,317 |
| 095 | 12,000 | | 0,597 | 12,000 |
| 103 | 12,200 | | 0,749 | 12,200 |
| 104 | 11,030 | | -0,156 | 11,030 |
| 109 | 11,800 | | 0,445 | 11,800 |
| 112 | 17,690 | | 4,924 | 17,690 |
| 119 | 11,300 | | 0,065 | 11,300 |
| 120 | 11,200 | | -0,012 | 11,200 |
| 124 | 12,790 | | 1,198 | 12,790 |
| 126 | 10,500 | | -0,606 | 10,500 |
| 127 | 10,700 | | -0,437 | 10,700 |
| 130 | 12,700 | | 1,130 | 12,700 |
| 133 | 10,600 | | -0,522 | 10,600 |
| 134 | 10,140 | | -0,912 | 10,140 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 2 **Sollwert:** 4,321 µg/L (empirischer Wert)
Merkmal: Bromdichlormethan **Rel. Soll-Stdabw.:** 10,16% (Limited)
Anzahl Labore in Berechnung: 45 **Toleranzbereich:** 3,484 - 5,248 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 5,450 | | 2,435 | 5,450 |
| 003 | 4,290 | | -0,075 | 4,290 |
| 006 | 3,920 | | -0,958 | 3,920 |
| 008 | 4,280 | | -0,099 | 4,280 |
| 010 | 4,480 | | 0,342 | 4,480 |
| 015 | 5,030 | | 1,529 | 5,030 |
| 016 | 4,430 | | 0,235 | 4,430 |
| 019 | 4,540 | | 0,472 | 4,540 |
| 021 | 4,130 | | -0,457 | 4,130 |
| 023 | 3,280 | | -2,486 | 3,280 |
| 024 | 4,544 | | 0,480 | 4,544 |
| 026 | 5,050 | | 1,572 | 5,050 |
| 028 | 4,510 | | 0,407 | 4,510 |
| 030 | 4,330 | | 0,019 | 4,330 |
| 038 | 5,080 | | 1,637 | 5,080 |
| 041 | 4,690 | | 0,795 | 4,690 |
| 042 | 4,230 | | -0,218 | 4,230 |
| 043 | 4,713 | | 0,845 | 4,713 |
| 044 | 3,894 | | -1,020 | 3,894 |
| 049 | 3,870 | | -1,078 | 3,870 |
| 051 | 3,950 | | -0,886 | 3,950 |
| 052 | 3,890 | | -1,030 | 3,890 |
| 053 | 3,670 | | -1,555 | 3,670 |
| 057 | 3,640 | | -1,627 | 3,640 |
| 065 | 4,254 | | -0,161 | 4,254 |
| 067 | 4,468 | | 0,317 | 4,468 |
| 071 | 3,990 | | -0,791 | 3,990 |
| 072 | 4,370 | | 0,105 | 4,370 |
| 078 | 4,440 | | 0,256 | 4,440 |
| 079 | 4,313 | | -0,020 | 4,313 |
| 080 | 4,300 | | -0,051 | 4,300 |
| 084 | 4,499 | | 0,383 | 4,499 |
| 095 | 4,200 | | -0,290 | 4,200 |
| 103 | 4,290 | | -0,075 | 4,290 |
| 104 | 4,320 | | -0,003 | 4,320 |
| 109 | 4,470 | | 0,321 | 4,470 |
| 112 | 6,049 | | 3,727 | 6,049 |
| 119 | 4,260 | | -0,146 | 4,260 |
| 120 | 4,570 | | 0,537 | 4,570 |
| 124 | 5,080 | | 1,637 | 5,080 |
| 126 | 3,730 | | -1,412 | 3,730 |
| 127 | 4,150 | | -0,409 | 4,150 |
| 130 | 5,000 | | 1,464 | 5,000 |
| 133 | 3,850 | | -1,125 | 3,850 |
| 134 | 3,850 | | -1,125 | 3,850 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 2 **Sollwert:** 8,061 µg/L (empirischer Wert)
Merkmal: Dibromchlormethan **Rel. Soll-Stdabw.:** 11,44% (Limited)
Anzahl Labore in Berechnung: 45 **Toleranzbereich:** 6,310 - 10,023 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 9,810 | | 1,782 | 9,810 |
| 003 | 8,080 | | 0,020 | 8,080 |
| 006 | 7,320 | | -0,846 | 7,320 |
| 008 | 8,650 | | 0,601 | 8,650 |
| 010 | 7,460 | | -0,686 | 7,460 |
| 015 | 9,500 | | 1,467 | 9,500 |
| 016 | 8,210 | | 0,152 | 8,210 |
| 019 | 8,840 | | 0,794 | 8,840 |
| 021 | 7,950 | | -0,126 | 7,950 |
| 023 | 7,210 | | -0,972 | 7,210 |
| 024 | 8,343 | | 0,288 | 8,343 |
| 026 | 9,270 | | 1,232 | 9,270 |
| 028 | 9,280 | | 1,242 | 9,280 |
| 030 | 7,730 | | -0,378 | 7,730 |
| 038 | 8,900 | | 0,855 | 8,900 |
| 041 | 8,710 | | 0,662 | 8,710 |
| 042 | 8,080 | | 0,020 | 8,080 |
| 043 | 6,778 | | -1,465 | 6,778 |
| 044 | 8,607 | | 0,557 | 8,607 |
| 049 | 7,110 | | -1,086 | 7,110 |
| 051 | 7,250 | | -0,926 | 7,250 |
| 052 | 7,120 | | -1,074 | 7,120 |
| 053 | 5,560 | | -2,856 | 5,560 |
| 057 | 7,430 | | -0,720 | 7,430 |
| 065 | 8,216 | | 0,158 | 8,216 |
| 067 | 7,538 | | -0,597 | 7,538 |
| 071 | 7,380 | | -0,777 | 7,380 |
| 072 | 7,540 | | -0,595 | 7,540 |
| 078 | 7,990 | | -0,081 | 7,990 |
| 079 | 8,618 | | 0,568 | 8,618 |
| 080 | 7,420 | | -0,732 | 7,420 |
| 084 | 8,725 | | 0,677 | 8,725 |
| 095 | 7,600 | | -0,526 | 7,600 |
| 103 | 8,120 | | 0,061 | 8,120 |
| 104 | 8,820 | | 0,774 | 8,820 |
| 109 | 8,380 | | 0,325 | 8,380 |
| 112 | 12,070 | | 4,085 | 12,070 |
| 119 | 7,530 | | -0,606 | 7,530 |
| 120 | 8,390 | | 0,336 | 8,390 |
| 124 | 10,200 | | 2,180 | 10,200 |
| 126 | 7,700 | | -0,412 | 7,700 |
| 127 | 7,880 | | -0,206 | 7,880 |
| 130 | 8,790 | | 0,743 | 8,790 |
| 133 | 7,010 | | -1,200 | 7,010 |
| 134 | 7,540 | | -0,595 | 7,540 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 2 **Sollwert:** 9,398 µg/L (empirischer Wert)
Merkmal: Tribrommethan **Rel. Soll-Stdabw.:** 14,46% (Limited)
Anzahl Labore in Berechnung: 45 **Toleranzbereich:** 6,850 - 12,343 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 10,900 | | 1,020 | 10,900 |
| 003 | 10,640 | | 0,843 | 10,640 |
| 006 | 8,100 | | -1,019 | 8,100 |
| 008 | 10,030 | | 0,429 | 10,030 |
| 010 | 8,130 | | -0,995 | 8,130 |
| 015 | 11,770 | | 1,611 | 11,770 |
| 016 | 9,380 | | -0,014 | 9,380 |
| 019 | 10,700 | | 0,884 | 10,700 |
| 021 | 9,110 | | -0,226 | 9,110 |
| 023 | 8,680 | | -0,564 | 8,680 |
| 024 | 9,382 | | -0,013 | 9,382 |
| 026 | 12,800 | | 2,310 | 12,800 |
| 028 | 10,800 | | 0,952 | 10,800 |
| 030 | 9,570 | | 0,117 | 9,570 |
| 038 | 9,040 | | -0,281 | 9,040 |
| 041 | 10,400 | | 0,680 | 10,400 |
| 042 | 10,100 | | 0,476 | 10,100 |
| 043 | 8,230 | | -0,917 | 8,230 |
| 044 | 12,155 | | 1,872 | 12,155 |
| 049 | 8,220 | | -0,925 | 8,220 |
| 051 | 8,080 | | -1,035 | 8,080 |
| 052 | 7,060 | | -1,835 | 7,060 |
| 053 | 6,070 | | -2,612 | 6,070 |
| 057 | 8,420 | | -0,768 | 8,420 |
| 065 | 8,963 | | -0,342 | 8,963 |
| 067 | 9,398 | | 0,000 | 9,398 |
| 071 | 8,410 | | -0,776 | 8,410 |
| 072 | 8,490 | | -0,713 | 8,490 |
| 078 | 8,500 | | -0,705 | 8,500 |
| 079 | 10,715 | | 0,894 | 10,715 |
| 080 | 8,960 | | -0,344 | 8,960 |
| 084 | 10,387 | | 0,671 | 10,387 |
| 095 | 9,620 | | 0,150 | 9,620 |
| 103 | 9,340 | | -0,046 | 9,340 |
| 104 | 9,400 | | 0,001 | 9,400 |
| 109 | 9,320 | | -0,062 | 9,320 |
| 112 | 13,590 | | 2,847 | 13,590 |
| 119 | 7,510 | | -1,482 | 7,510 |
| 120 | 10,000 | | 0,409 | 10,000 |
| 124 | 10,490 | | 0,741 | 10,490 |
| 126 | 9,410 | | 0,008 | 9,410 |
| 127 | 9,240 | | -0,124 | 9,240 |
| 130 | 9,280 | | -0,093 | 9,280 |
| 133 | 8,080 | | -1,035 | 8,080 |
| 134 | 9,150 | | -0,195 | 9,150 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 2 **Sollwert:** 2,726 µg/L (empirischer Wert)
Merkmal: Benzol **Rel. Soll-Stdabw.:** 14,09% (Limited)
Anzahl Labore in Berechnung: 44 **Toleranzbereich:** 2,005 - 3,556 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 3,510 | | 1,889 | 3,510 |
| 003 | 2,870 | | 0,347 | 2,870 |
| 006 | 2,540 | | -0,515 | 2,540 |
| 008 | 2,970 | | 0,588 | 2,970 |
| 010 | 2,830 | | 0,251 | 2,830 |
| 016 | 2,640 | | -0,238 | 2,640 |
| 019 | 2,710 | | -0,044 | 2,710 |
| 021 | 2,660 | | -0,183 | 2,660 |
| 023 | 2,110 | | -1,708 | 2,110 |
| 024 | 2,775 | | 0,118 | 2,775 |
| 026 | 3,220 | | 1,190 | 3,220 |
| 028 | 3,000 | | 0,660 | 3,000 |
| 030 | 2,950 | | 0,540 | 2,950 |
| 038 | 3,110 | | 0,925 | 3,110 |
| 041 | 2,970 | | 0,588 | 2,970 |
| 042 | 3,250 | | 1,263 | 3,250 |
| 043 | 2,935 | | 0,504 | 2,935 |
| 044 | 2,698 | | -0,077 | 2,698 |
| 049 | 2,180 | | -1,514 | 2,180 |
| 051 | 2,380 | | -0,959 | 2,380 |
| 052 | 2,400 | | -0,904 | 2,400 |
| 053 | 1,920 | | -2,235 | 1,920 |
| 057 | 1,980 | | -2,068 | 1,980 |
| 065 | 2,469 | | -0,712 | 2,469 |
| 067 | 2,710 | | -0,044 | 2,710 |
| 071 | 2,570 | | -0,432 | 2,570 |
| 072 | 2,880 | | 0,371 | 2,880 |
| 078 | 2,960 | | 0,564 | 2,960 |
| 079 | 2,830 | | 0,251 | 2,830 |
| 084 | 3,083 | | 0,860 | 3,083 |
| 095 | 2,710 | | -0,044 | 2,710 |
| 103 | 2,710 | | -0,044 | 2,710 |
| 104 | 2,590 | | -0,377 | 2,590 |
| 109 | 2,830 | | 0,251 | 2,830 |
| 112 | 4,907 | | 5,254 | 4,907 |
| 114 | 3,070 | | 0,829 | 3,070 |
| 119 | 2,410 | | -0,876 | 2,410 |
| 120 | 2,530 | | -0,543 | 2,530 |
| 124 | 3,370 | | 1,552 | 3,370 |
| 126 | 1,930 | | -2,207 | 1,930 |
| 127 | 2,660 | | -0,183 | 2,660 |
| 130 | 2,060 | | -1,846 | 2,060 |
| 133 | 3,150 | | 1,022 | 3,150 |
| 134 | 2,610 | | -0,321 | 2,610 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 2 **Sollwert:** 10,884 µg/L (empirischer Wert)
Merkmal: Vinylchlorid **Rel. Soll-Stdabw.:** 25,00% (Limited)
Anzahl Labore in Berechnung: 30 **Toleranzbereich:** 5,966 - 17,197 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 11,300 | | 0,132 | 11,300 |
| 006 | 10,500 | | -0,156 | 10,500 |
| 008 | 9,220 | | -0,677 | 9,220 |
| 010 | 12,100 | | 0,385 | 12,100 |
| 016 | 13,100 | | 0,702 | 13,100 |
| 021 | 8,510 | | -0,965 | 8,510 |
| 024 | 12,694 | | 0,574 | 12,694 |
| 026 | 14,700 | | 1,209 | 14,700 |
| 038 | 11,600 | | 0,227 | 11,600 |
| 041 | 10,600 | | -0,115 | 10,600 |
| 042 | 22,400 | | 3,648 | 22,400 |
| 043 | 17,255 | | 2,018 | 17,255 |
| 044 | 15,700 | | 1,526 | 15,700 |
| 049 | 10,900 | | 0,005 | 10,900 |
| 051 | 5,070 | | -2,365 | 5,070 |
| 052 | 11,080 | | 0,062 | 11,080 |
| 057 | 7,740 | | -1,279 | 7,740 |
| 067 | 8,285 | | -1,057 | 8,285 |
| 071 | 11,900 | | 0,322 | 11,900 |
| 072 | 10,400 | | -0,197 | 10,400 |
| 079 | 8,423 | | -1,001 | 8,423 |
| 095 | 13,200 | | 0,734 | 13,200 |
| 103 | 4,800 | | -2,474 | 4,800 |
| 112 | 16,350 | | 1,732 | 16,350 |
| 119 | 8,600 | | -0,929 | 8,600 |
| 120 | 11,900 | | 0,322 | 11,900 |
| 127 | 9,310 | | -0,640 | 9,310 |
| 130 | 8,310 | | -1,047 | 8,310 |
| 133 | 8,640 | | -0,913 | 8,640 |
| 134 | 10,090 | | -0,323 | 10,090 |

Probe 3

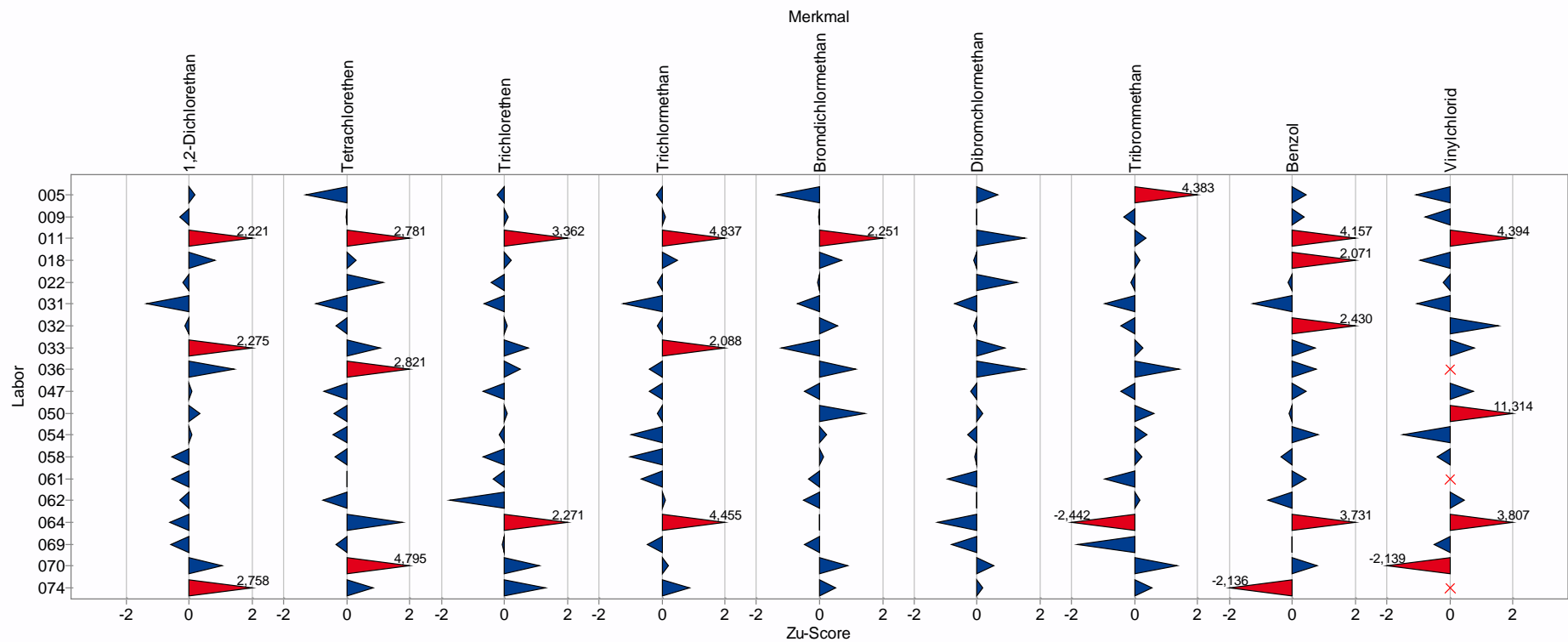
Kennwerte – Probe 3

Tabelle

| Probe 3 | Einheit | Anzahl der Labore | Sollwert | Soll-Stdabw. | Vergleich-Stdabw. | Rel. Soll-Stdabw. | Rel. Vergleich-Stdabw. | unt. Toleranzgr. | ob. Toleranzgr. | Messunsicherheit MU |
|-------------------|---------|-------------------|----------|--------------|-------------------|-------------------|------------------------|------------------|-----------------|---------------------|
| 1,2-Dichlorethan | µg/L | 36 | 3,964 | 0,355 | 0,355 | 8,95 % | 8,95 % | 3,283 | 4,708 | 1,86 % |
| Tetrachlorethen | µg/L | 37 | 6,434 | 0,940 | 0,940 | 14,61 % | 14,61 % | 4,672 | 8,473 | 3,00 % |
| Trichlorethen | µg/L | 37 | 13,403 | 2,023 | 2,023 | 15,10 % | 15,10 % | 9,618 | 17,804 | 3,10 % |
| Trichlormethan | µg/L | 37 | 14,266 | 1,250 | 1,250 | 8,76 % | 8,76 % | 11,867 | 16,885 | 1,80 % |
| Bromdichlormethan | µg/L | 36 | 2,890 | 0,310 | 0,310 | 10,74 % | 10,74 % | 2,299 | 3,547 | 2,24 % |
| Dibromchlormethan | µg/L | 36 | 10,816 | 1,046 | 1,046 | 9,67 % | 9,67 % | 8,816 | 13,020 | 2,01 % |
| Tribrommethan | µg/L | 36 | 6,137 | 0,752 | 0,752 | 12,25 % | 12,25 % | 4,714 | 7,744 | 2,55 % |
| Benzol | µg/L | 37 | 4,017 | 0,421 | 0,421 | 10,48 % | 10,48 % | 3,215 | 4,909 | 2,15 % |
| Vinylchlorid | µg/L | 28 | 8,222 | 2,055 | 3,035 | 25,00 % | 36,91 % | 4,507 | 12,991 | 8,72 % |

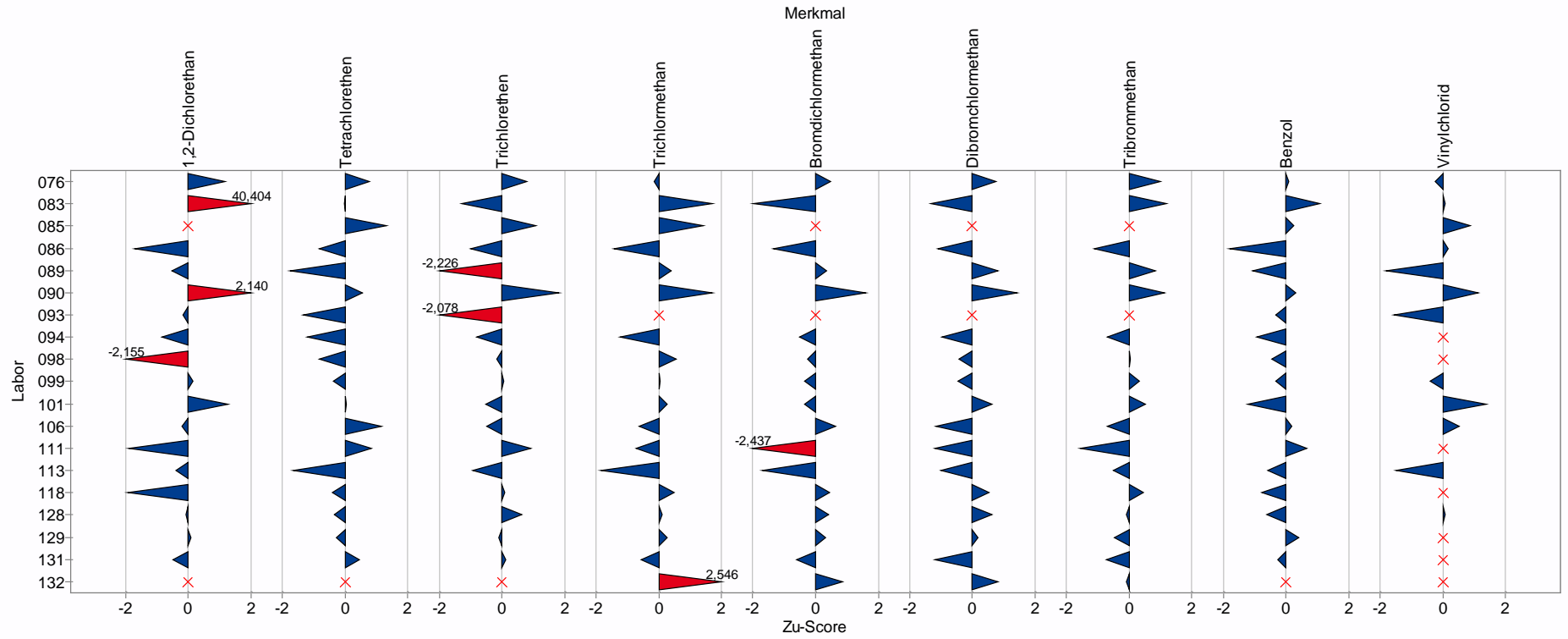
Übersicht z_U-Scores

Graphik 3a: z_U-scores Probe3, Teil 1



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Graphik 3b: z_U-scores Probe3, Teil 2



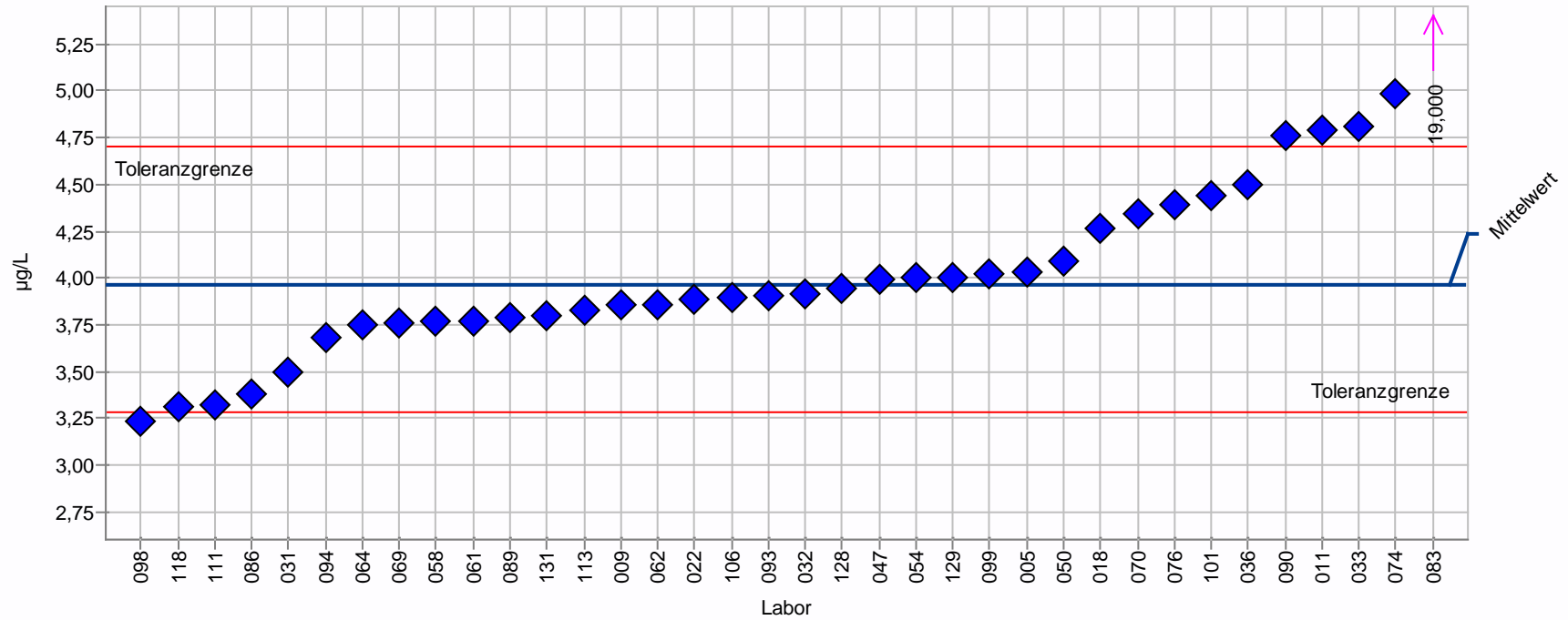
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Einzeldarstellung der Parameter

Grafik und Tabelle

Abbildung 19: Mittelwerte + Stdabw. für Niveau 3, 1,2-Dichlorethan

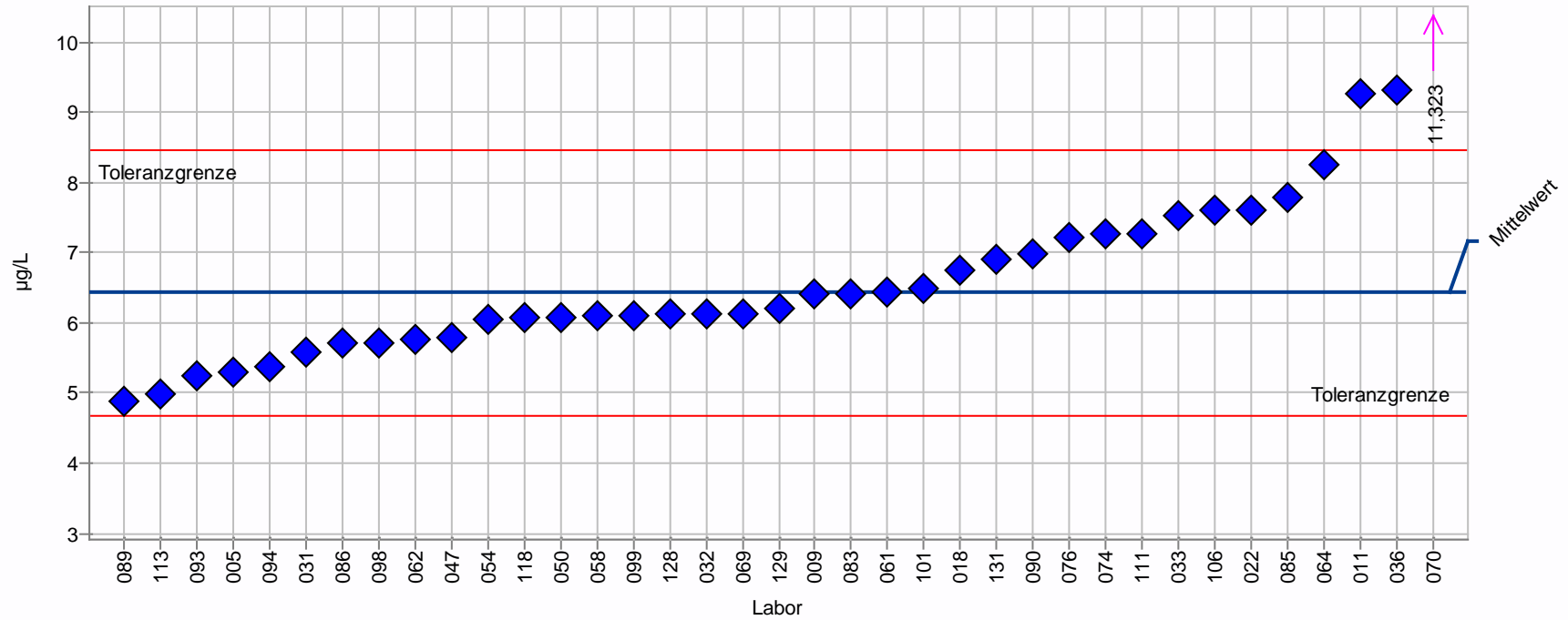
Probe: Niveau 3 Sollwert: 3,964 µg/L (empirischer Wert)
 Merkmal: 1,2-Dichlorethan Rel. Soll-Stdabw.: 8,95% (Limited)
 Anzahl Labore in Berechnung: 36 Toleranzbereich: 3,283 - 4,708 µg/L (|Zu-Score| <= 2,000)



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Abbildung 20: Mittelwerte + Stdabw. für Niveau 3, Tetrachlorethen

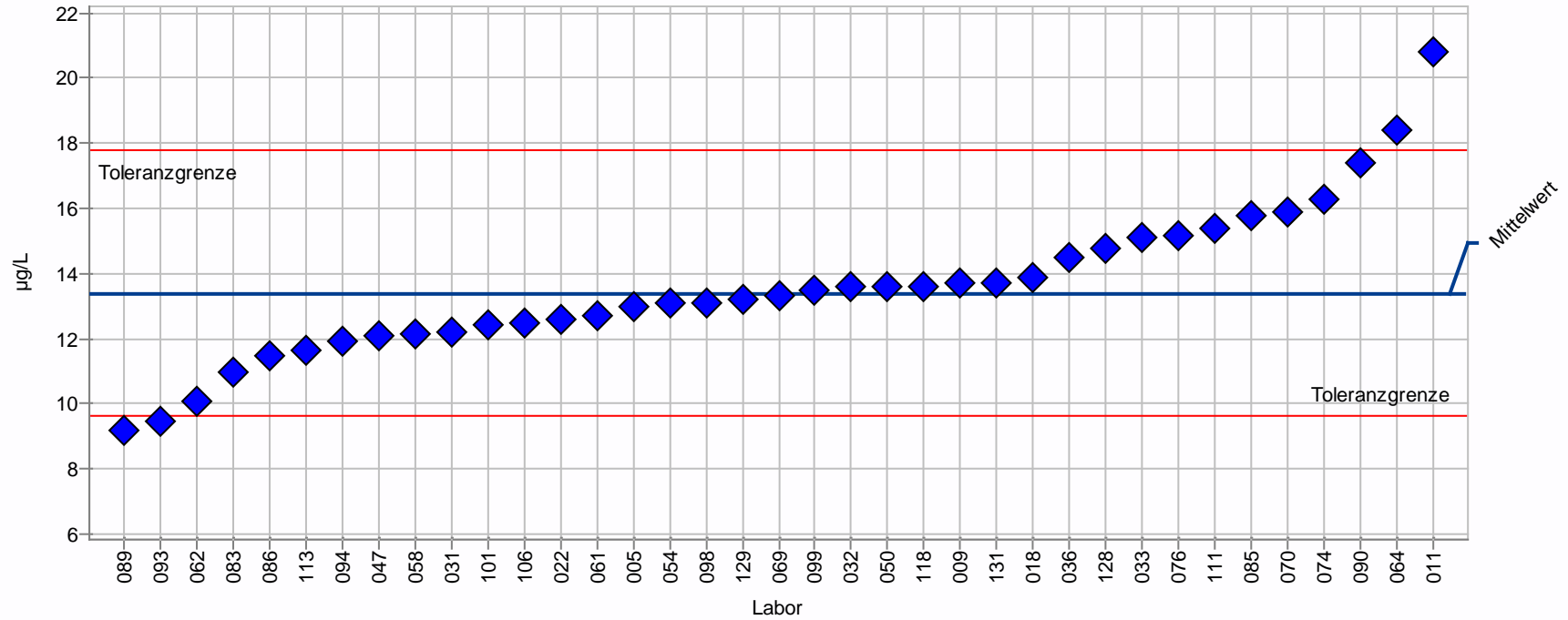
Probe: Niveau 3 Sollwert: 6,434 µg/L (empirischer Wert)
 Merkmal: Tetrachlorethen Rel. Soll-Stdabw.: 14,61% (Limited)
 Anzahl Labore in Berechnung: 37 Toleranzbereich: 4,672 - 8,473 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 21: Mittelwerte + Stdabw. für Niveau 3, Trichlorethen

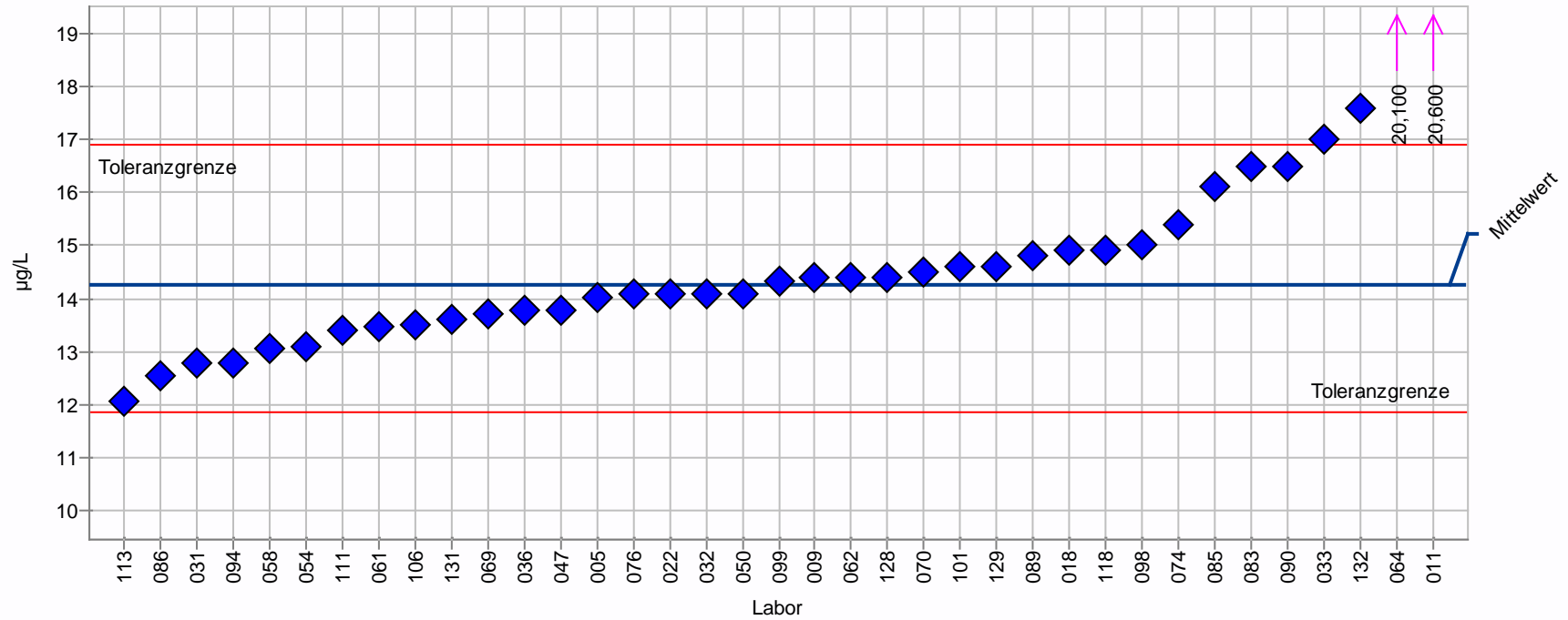
Probe: Niveau 3 Sollwert: 13,403 µg/L (empirischer Wert)
 Merkmal: Trichlorethen Rel. Soll-Stdabw.: 15,10% (Limited)
 Anzahl Labore in Berechnung: 37 Toleranzbereich: 9,618 - 17,804 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 22: Mittelwerte + Stdabw. für Niveau 3, Trichlormethan

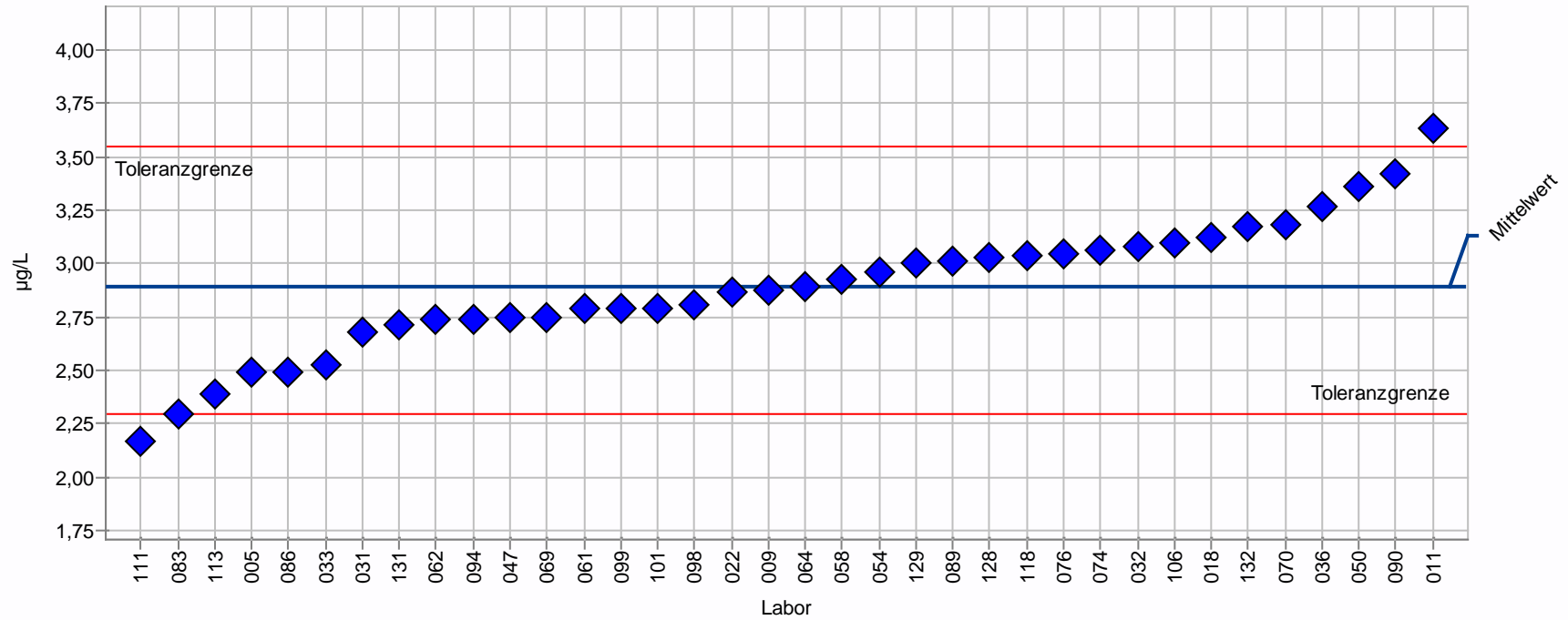
Probe: Niveau 3
 Merkmal: Trichlormethan
 Anzahl Labore in Berechnung: 37
 Sollwert: 14,266 µg/L (empirischer Wert)
 Rel. Soll-Stdabw.: 8,76% (Limited)
 Toleranzbereich: 11,867 - 16,885 µg/L ($|Zu\text{-Score}| \leq 2,000$)



PROLab

Abbildung 23: Mittelwerte + Stdabw. für Niveau 3, Bromdichlormethan

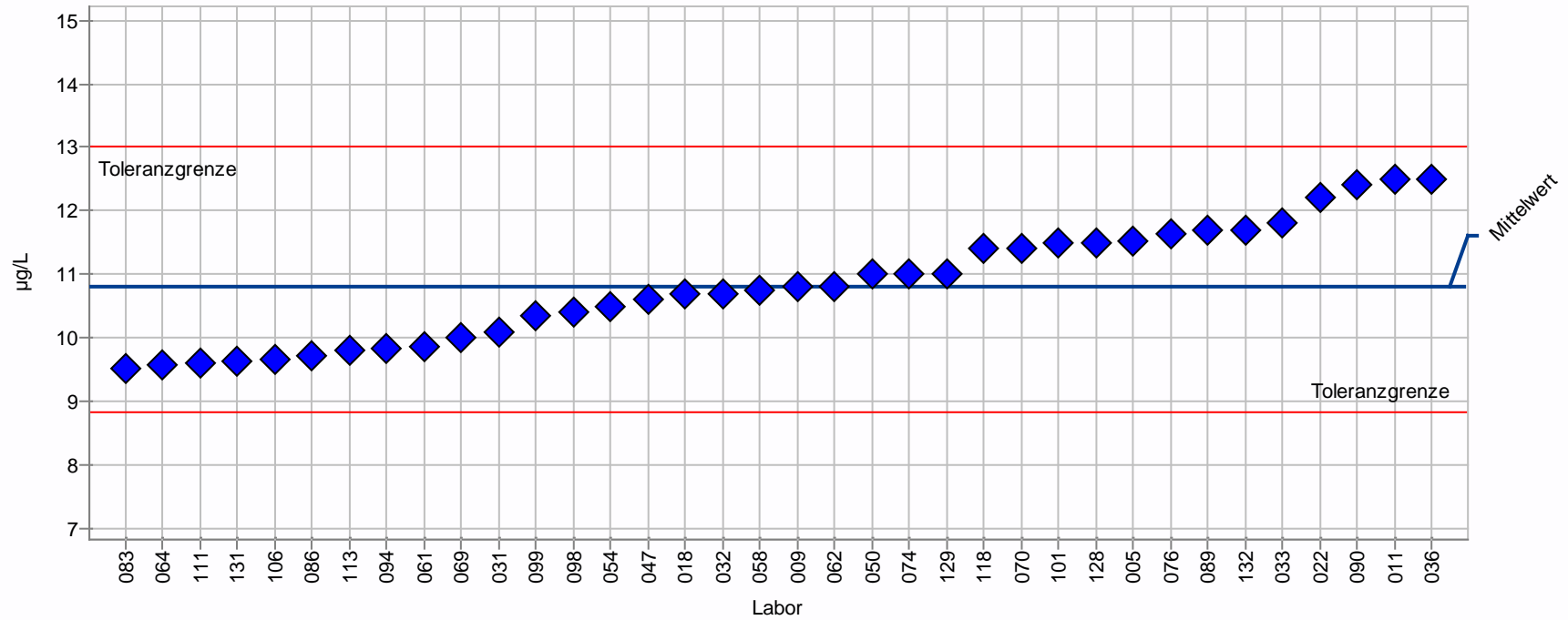
Probe: Niveau 3 Sollwert: 2,890 µg/L (empirischer Wert)
 Merkmal: Bromdichlormethan Rel. Soll-Stdabw.: 10,74% (Limited)
 Anzahl Labore in Berechnung: 36 Toleranzbereich: 2,299 - 3,547 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 24: Mittelwerte + Stdabw. für Niveau 3, Dibromchlormethan

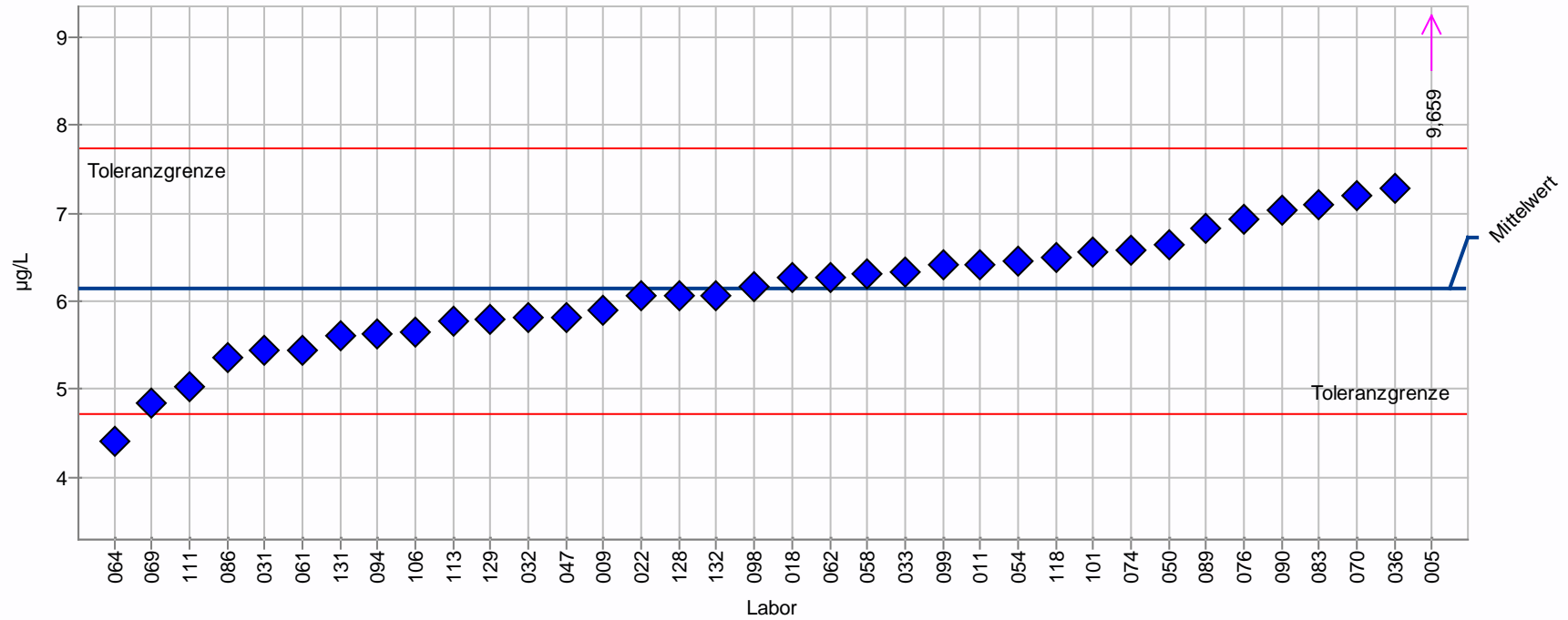
Probe: Niveau 3
 Merkmal: Dibromchlormethan
 Anzahl Labore in Berechnung: 36
 Sollwert: 10,816 µg/L (empirischer Wert)
 Rel. Soll-Stdabw.: 9,67% (Limited)
 Toleranzbereich: 8,816 - 13,020 µg/L ($|Z\text{-Score}| \leq 2,000$)



PROLab

Abbildung 25: Mittelwerte + Stdabw. für Niveau 3, Tribrommethan

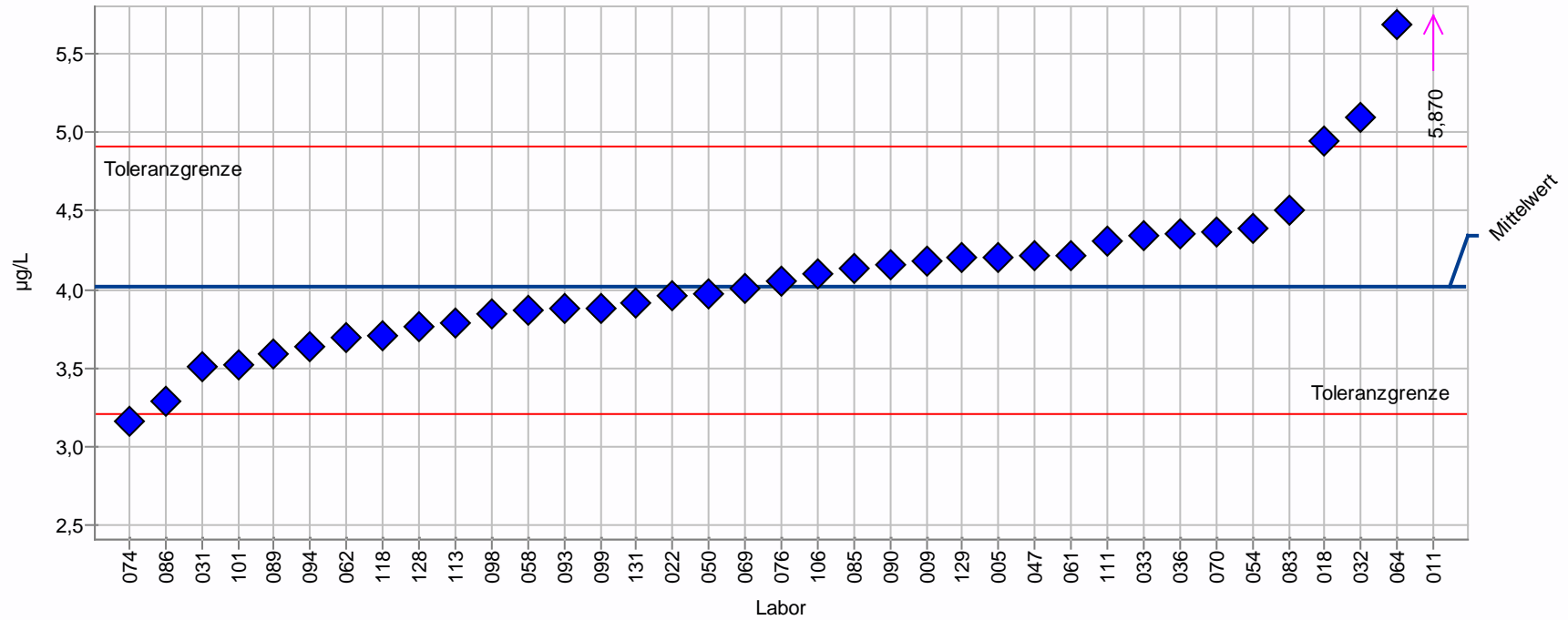
Probe: Niveau 3 Sollwert: 6,137 µg/L (empirischer Wert)
 Merkmal: Tribrommethan Rel. Soll-Stdabw.: 12,25% (Limited)
 Anzahl Labore in Berechnung: 36 Toleranzbereich: 4,714 - 7,744 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 26: Mittelwerte + Stdabw. für Niveau 3, Benzol

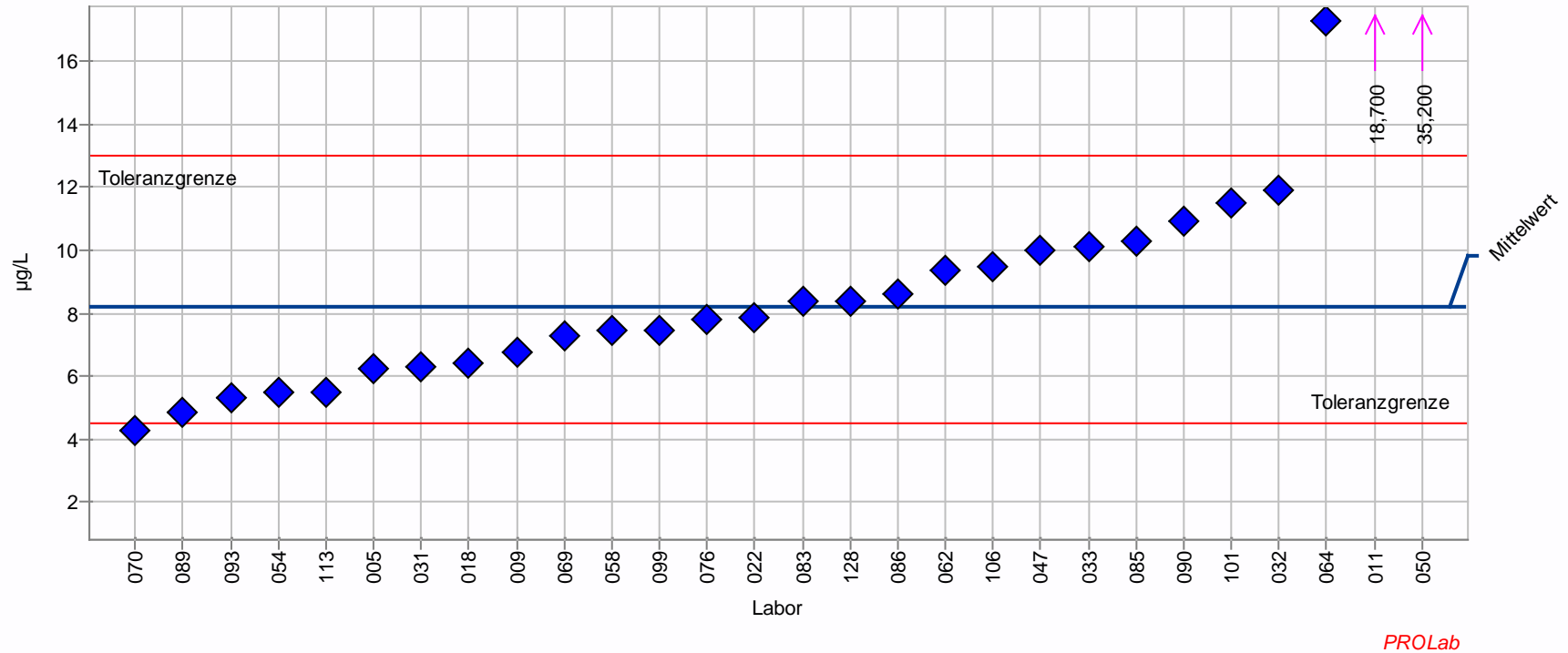
Probe: Niveau 3 Sollwert: 4,017 µg/L (empirischer Wert)
 Merkmal: Benzol Rel. Soll-Stdabw.: 10,48% (Limited)
 Anzahl Labore in Berechnung: 37 Toleranzbereich: 3,215 - 4,909 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 27: Mittelwerte + Stdabw. für Niveau 3, Vinylchlorid

Probe: Niveau 3 Sollwert: 8,222 µg/L (empirischer Wert)
 Merkmal: Vinylchlorid Rel. Soll-Stdabw.: 25,00% (Limited)
 Anzahl Labore in Berechnung: 28 Toleranzbereich: 4,507 - 12,991 µg/L (|Zu-Score| <= 2,000)



Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 3 **Sollwert:** 3,964 µg/L (empirischer Wert)
Merkmal: 1,2-Dichlorethan **Rel. Soll-Stdabw.:** 8,95% (Limited)
Anzahl Labore in Berechnung: 36 **Toleranzbereich:** 3,283 - 4,708 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 005 | 4,035 | | 0,192 | 4,035 |
| 009 | 3,860 | | -0,304 | 3,860 |
| 011 | 4,790 | | 2,221 | 4,790 |
| 018 | 4,270 | | 0,824 | 4,270 |
| 022 | 3,890 | | -0,216 | 3,890 |
| 031 | 3,500 | | -1,362 | 3,500 |
| 032 | 3,920 | | -0,128 | 3,920 |
| 033 | 4,810 | | 2,275 | 4,810 |
| 036 | 4,500 | | 1,442 | 4,500 |
| 047 | 3,990 | | 0,071 | 3,990 |
| 050 | 4,090 | | 0,340 | 4,090 |
| 054 | 4,000 | | 0,098 | 4,000 |
| 058 | 3,770 | | -0,569 | 3,770 |
| 061 | 3,770 | | -0,569 | 3,770 |
| 062 | 3,860 | | -0,304 | 3,860 |
| 064 | 3,750 | | -0,627 | 3,750 |
| 069 | 3,760 | | -0,598 | 3,760 |
| 070 | 4,348 | | 1,033 | 4,348 |
| 074 | 4,990 | | 2,758 | 4,990 |
| 076 | 4,395 | | 1,159 | 4,395 |
| 083 | 19,000 | | 40,404 | 19,000 |
| 086 | 3,380 | | -1,715 | 3,380 |
| 089 | 3,790 | | -0,510 | 3,790 |
| 090 | 4,760 | | 2,140 | 4,760 |
| 093 | 3,910 | | -0,157 | 3,910 |
| 094 | 3,680 | | -0,833 | 3,680 |
| 098 | 3,230 | | -2,155 | 3,230 |
| 099 | 4,020 | | 0,152 | 4,020 |
| 101 | 4,440 | | 1,280 | 4,440 |
| 106 | 3,900 | | -0,187 | 3,900 |
| 111 | 3,320 | | -1,891 | 3,320 |
| 113 | 3,831 | | -0,389 | 3,831 |
| 118 | 3,310 | | -1,920 | 3,310 |
| 128 | 3,940 | | -0,069 | 3,940 |
| 129 | 4,000 | | 0,098 | 4,000 |
| 131 | 3,800 | | -0,480 | 3,800 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 3 **Sollwert:** 6,434 µg/L (empirischer Wert)
Merkmal: Tetrachlorethen **Rel. Soll-Stdabw.:** 14,61% (Limited)
Anzahl Labore in Berechnung: 37 **Toleranzbereich:** 4,672 - 8,473 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 005 | 5,284 | | -1,305 | 5,284 |
| 009 | 6,400 | | -0,039 | 6,400 |
| 011 | 9,270 | | 2,781 | 9,270 |
| 018 | 6,740 | | 0,300 | 6,740 |
| 022 | 7,610 | | 1,153 | 7,610 |
| 031 | 5,570 | | -0,981 | 5,570 |
| 032 | 6,140 | | -0,334 | 6,140 |
| 033 | 7,520 | | 1,065 | 7,520 |
| 036 | 9,310 | | 2,821 | 9,310 |
| 047 | 5,790 | | -0,731 | 5,790 |
| 050 | 6,080 | | -0,402 | 6,080 |
| 054 | 6,040 | | -0,447 | 6,040 |
| 058 | 6,110 | | -0,368 | 6,110 |
| 061 | 6,430 | | -0,005 | 6,430 |
| 062 | 5,770 | | -0,754 | 5,770 |
| 064 | 8,250 | | 1,781 | 8,250 |
| 069 | 6,140 | | -0,334 | 6,140 |
| 070 | 11,323 | | 4,795 | 11,323 |
| 074 | 7,280 | | 0,830 | 7,280 |
| 076 | 7,215 | | 0,766 | 7,215 |
| 083 | 6,400 | | -0,039 | 6,400 |
| 085 | 7,791 | | 1,331 | 7,791 |
| 086 | 5,710 | | -0,822 | 5,710 |
| 089 | 4,890 | | -1,753 | 4,890 |
| 090 | 6,990 | | 0,545 | 6,990 |
| 093 | 5,250 | | -1,344 | 5,250 |
| 094 | 5,380 | | -1,196 | 5,380 |
| 098 | 5,710 | | -0,822 | 5,710 |
| 099 | 6,110 | | -0,368 | 6,110 |
| 101 | 6,480 | | 0,045 | 6,480 |
| 106 | 7,600 | | 1,143 | 7,600 |
| 111 | 7,280 | | 0,830 | 7,280 |
| 113 | 4,990 | | -1,639 | 4,990 |
| 118 | 6,070 | | -0,413 | 6,070 |
| 128 | 6,120 | | -0,357 | 6,120 |
| 129 | 6,200 | | -0,266 | 6,200 |
| 131 | 6,910 | | 0,467 | 6,910 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 3 **Sollwert:** 13,403 µg/L (empirischer Wert)
Merkmal: Trichlorethen **Rel. Soll-Stdabw.:** 15,10% (Limited)
Anzahl Labore in Berechnung: 37 **Toleranzbereich:** 9,618 - 17,804 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 005 | 12,970 | | -0,229 | 12,970 |
| 009 | 13,700 | | 0,135 | 13,700 |
| 011 | 20,800 | | 3,362 | 20,800 |
| 018 | 13,900 | | 0,226 | 13,900 |
| 022 | 12,600 | | -0,424 | 12,600 |
| 031 | 12,200 | | -0,636 | 12,200 |
| 032 | 13,600 | | 0,090 | 13,600 |
| 033 | 15,100 | | 0,771 | 15,100 |
| 036 | 14,500 | | 0,499 | 14,500 |
| 047 | 12,100 | | -0,689 | 12,100 |
| 050 | 13,600 | | 0,090 | 13,600 |
| 054 | 13,100 | | -0,160 | 13,100 |
| 058 | 12,120 | | -0,678 | 12,120 |
| 061 | 12,700 | | -0,371 | 12,700 |
| 062 | 10,100 | | -1,745 | 10,100 |
| 064 | 18,400 | | 2,271 | 18,400 |
| 069 | 13,300 | | -0,054 | 13,300 |
| 070 | 15,875 | | 1,123 | 15,875 |
| 074 | 16,300 | | 1,317 | 16,300 |
| 076 | 15,140 | | 0,789 | 15,140 |
| 083 | 11,000 | | -1,270 | 11,000 |
| 085 | 15,761 | | 1,072 | 15,761 |
| 086 | 11,490 | | -1,011 | 11,490 |
| 089 | 9,190 | | -2,226 | 9,190 |
| 090 | 17,400 | | 1,816 | 17,400 |
| 093 | 9,470 | | -2,078 | 9,470 |
| 094 | 11,900 | | -0,794 | 11,900 |
| 098 | 13,100 | | -0,160 | 13,100 |
| 099 | 13,500 | | 0,044 | 13,500 |
| 101 | 12,400 | | -0,530 | 12,400 |
| 106 | 12,500 | | -0,477 | 12,500 |
| 111 | 15,400 | | 0,908 | 15,400 |
| 113 | 11,666 | | -0,918 | 11,666 |
| 118 | 13,600 | | 0,090 | 13,600 |
| 128 | 14,800 | | 0,635 | 14,800 |
| 129 | 13,200 | | -0,107 | 13,200 |
| 131 | 13,700 | | 0,135 | 13,700 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 3 **Sollwert:** 14,266 µg/L (empirischer Wert)
Merkmal: Trichlormethan **Rel. Soll-Stdabw.:** 8,76% (Limited)
Anzahl Labore in Berechnung: 37 **Toleranzbereich:** 11,867 - 16,885 µg/L (|Zu-Score| ≤ 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 005 | 14,040 | | -0,189 | 14,040 |
| 009 | 14,400 | | 0,102 | 14,400 |
| 011 | 20,600 | | 4,837 | 20,600 |
| 018 | 14,900 | | 0,484 | 14,900 |
| 022 | 14,100 | | -0,139 | 14,100 |
| 031 | 12,800 | | -1,222 | 12,800 |
| 032 | 14,100 | | -0,139 | 14,100 |
| 033 | 17,000 | | 2,088 | 17,000 |
| 036 | 13,800 | | -0,389 | 13,800 |
| 047 | 13,800 | | -0,389 | 13,800 |
| 050 | 14,100 | | -0,139 | 14,100 |
| 054 | 13,100 | | -0,972 | 13,100 |
| 058 | 13,050 | | -1,014 | 13,050 |
| 061 | 13,460 | | -0,672 | 13,460 |
| 062 | 14,400 | | 0,102 | 14,400 |
| 064 | 20,100 | | 4,455 | 20,100 |
| 069 | 13,700 | | -0,472 | 13,700 |
| 070 | 14,518 | | 0,192 | 14,518 |
| 074 | 15,400 | | 0,866 | 15,400 |
| 076 | 14,080 | | -0,155 | 14,080 |
| 083 | 16,500 | | 1,706 | 16,500 |
| 085 | 16,125 | | 1,420 | 16,125 |
| 086 | 12,560 | | -1,422 | 12,560 |
| 089 | 14,800 | | 0,408 | 14,800 |
| 090 | 16,500 | | 1,706 | 16,500 |
| 094 | 12,800 | | -1,222 | 12,800 |
| 098 | 15,000 | | 0,560 | 15,000 |
| 099 | 14,330 | | 0,049 | 14,330 |
| 101 | 14,600 | | 0,255 | 14,600 |
| 106 | 13,500 | | -0,639 | 13,500 |
| 111 | 13,400 | | -0,722 | 13,400 |
| 113 | 12,061 | | -1,838 | 12,061 |
| 118 | 14,900 | | 0,484 | 14,900 |
| 128 | 14,400 | | 0,102 | 14,400 |
| 129 | 14,600 | | 0,255 | 14,600 |
| 131 | 13,600 | | -0,555 | 13,600 |
| 132 | 17,600 | | 2,546 | 17,600 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 3 **Sollwert:** 2,890 µg/L (empirischer Wert)
Merkmal: Bromdichlormethan **Rel. Soll-Stdabw.:** 10,74% (Limited)
Anzahl Labore in Berechnung: 36 **Toleranzbereich:** 2,299 - 3,547 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 005 | 2,489 | | -1,357 | 2,489 |
| 009 | 2,880 | | -0,033 | 2,880 |
| 011 | 3,630 | | 2,251 | 3,630 |
| 018 | 3,120 | | 0,700 | 3,120 |
| 022 | 2,870 | | -0,067 | 2,870 |
| 031 | 2,680 | | -0,710 | 2,680 |
| 032 | 3,080 | | 0,579 | 3,080 |
| 033 | 2,530 | | -1,218 | 2,530 |
| 036 | 3,270 | | 1,156 | 3,270 |
| 047 | 2,750 | | -0,473 | 2,750 |
| 050 | 3,360 | | 1,430 | 3,360 |
| 054 | 2,960 | | 0,214 | 2,960 |
| 058 | 2,930 | | 0,122 | 2,930 |
| 061 | 2,790 | | -0,338 | 2,790 |
| 062 | 2,740 | | -0,507 | 2,740 |
| 064 | 2,890 | | 0,001 | 2,890 |
| 069 | 2,750 | | -0,473 | 2,750 |
| 070 | 3,180 | | 0,883 | 3,180 |
| 074 | 3,060 | | 0,518 | 3,060 |
| 076 | 3,045 | | 0,472 | 3,045 |
| 083 | 2,300 | | -1,997 | 2,300 |
| 086 | 2,490 | | -1,354 | 2,490 |
| 089 | 3,010 | | 0,366 | 3,010 |
| 090 | 3,420 | | 1,613 | 3,420 |
| 094 | 2,740 | | -0,507 | 2,740 |
| 098 | 2,810 | | -0,270 | 2,810 |
| 099 | 2,790 | | -0,338 | 2,790 |
| 101 | 2,790 | | -0,338 | 2,790 |
| 106 | 3,100 | | 0,639 | 3,100 |
| 111 | 2,170 | | -2,437 | 2,170 |
| 113 | 2,390 | | -1,692 | 2,390 |
| 118 | 3,040 | | 0,457 | 3,040 |
| 128 | 3,030 | | 0,426 | 3,030 |
| 129 | 3,000 | | 0,335 | 3,000 |
| 131 | 2,710 | | -0,609 | 2,710 |
| 132 | 3,170 | | 0,852 | 3,170 |



Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 3 **Sollwert:** 10,816 µg/L (empirischer Wert)
Merkmal: Dibromchlormethan **Rel. Soll-Stdabw.:** 9,67% (Limited)
Anzahl Labore in Berechnung: 36 **Toleranzbereich:** 8,816 - 13,020 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 005 | 11,530 | | 0,648 | 11,530 |
| 009 | 10,800 | | -0,016 | 10,800 |
| 011 | 12,500 | | 1,528 | 12,500 |
| 018 | 10,700 | | -0,116 | 10,700 |
| 022 | 12,200 | | 1,256 | 12,200 |
| 031 | 10,100 | | -0,716 | 10,100 |
| 032 | 10,700 | | -0,116 | 10,700 |
| 033 | 11,800 | | 0,893 | 11,800 |
| 036 | 12,500 | | 1,528 | 12,500 |
| 047 | 10,600 | | -0,216 | 10,600 |
| 050 | 11,000 | | 0,167 | 11,000 |
| 054 | 10,500 | | -0,316 | 10,500 |
| 058 | 10,750 | | -0,066 | 10,750 |
| 061 | 9,870 | | -0,946 | 9,870 |
| 062 | 10,800 | | -0,016 | 10,800 |
| 064 | 9,560 | | -1,256 | 9,560 |
| 069 | 10,000 | | -0,816 | 10,000 |
| 070 | 11,408 | | 0,537 | 11,408 |
| 074 | 11,000 | | 0,167 | 11,000 |
| 076 | 11,640 | | 0,748 | 11,640 |
| 083 | 9,500 | | -1,316 | 9,500 |
| 086 | 9,700 | | -1,116 | 9,700 |
| 089 | 11,700 | | 0,802 | 11,700 |
| 090 | 12,400 | | 1,438 | 12,400 |
| 094 | 9,830 | | -0,986 | 9,830 |
| 098 | 10,400 | | -0,416 | 10,400 |
| 099 | 10,350 | | -0,466 | 10,350 |
| 101 | 11,500 | | 0,621 | 11,500 |
| 106 | 9,650 | | -1,166 | 9,650 |
| 111 | 9,610 | | -1,206 | 9,610 |
| 113 | 9,796 | | -1,020 | 9,796 |
| 118 | 11,400 | | 0,530 | 11,400 |
| 128 | 11,500 | | 0,621 | 11,500 |
| 129 | 11,000 | | 0,167 | 11,000 |
| 131 | 9,630 | | -1,186 | 9,630 |
| 132 | 11,700 | | 0,802 | 11,700 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 3 **Sollwert:** 6,137 µg/L (empirischer Wert)
Merkmal: Tribrommethan **Rel. Soll-Stdabw.:** 12,25% (Limited)
Anzahl Labore in Berechnung: 36 **Toleranzbereich:** 4,714 - 7,744 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 005 | 9,659 | | 4,383 | 9,659 |
| 009 | 5,900 | | -0,333 | 5,900 |
| 011 | 6,420 | | 0,353 | 6,420 |
| 018 | 6,270 | | 0,166 | 6,270 |
| 022 | 6,060 | | -0,108 | 6,060 |
| 031 | 5,450 | | -0,965 | 5,450 |
| 032 | 5,820 | | -0,445 | 5,820 |
| 033 | 6,340 | | 0,253 | 6,340 |
| 036 | 7,280 | | 1,423 | 7,280 |
| 047 | 5,820 | | -0,445 | 5,820 |
| 050 | 6,640 | | 0,626 | 6,640 |
| 054 | 6,450 | | 0,390 | 6,450 |
| 058 | 6,310 | | 0,216 | 6,310 |
| 061 | 5,450 | | -0,965 | 5,450 |
| 062 | 6,270 | | 0,166 | 6,270 |
| 064 | 4,400 | | -2,442 | 4,400 |
| 069 | 4,840 | | -1,823 | 4,840 |
| 070 | 7,210 | | 1,336 | 7,210 |
| 074 | 6,590 | | 0,564 | 6,590 |
| 076 | 6,930 | | 0,987 | 6,930 |
| 083 | 7,100 | | 1,199 | 7,100 |
| 086 | 5,350 | | -1,106 | 5,350 |
| 089 | 6,820 | | 0,850 | 6,820 |
| 090 | 7,030 | | 1,112 | 7,030 |
| 094 | 5,630 | | -0,712 | 5,630 |
| 098 | 6,170 | | 0,042 | 6,170 |
| 099 | 6,410 | | 0,340 | 6,410 |
| 101 | 6,560 | | 0,527 | 6,560 |
| 106 | 5,650 | | -0,684 | 5,650 |
| 111 | 5,030 | | -1,556 | 5,030 |
| 113 | 5,778 | | -0,504 | 5,778 |
| 118 | 6,490 | | 0,440 | 6,490 |
| 128 | 6,070 | | -0,094 | 6,070 |
| 129 | 5,800 | | -0,473 | 5,800 |
| 131 | 5,610 | | -0,740 | 5,610 |
| 132 | 6,070 | | -0,094 | 6,070 |



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Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 3 **Sollwert:** 4,017 µg/L (empirischer Wert)
Merkmal: Benzol **Rel. Soll-Stdabw.:** 10,48% (Limited)
Anzahl Labore in Berechnung: 37 **Toleranzbereich:** 3,215 - 4,909 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 005 | 4,208 | | 0,428 | 4,208 |
| 009 | 4,180 | | 0,365 | 4,180 |
| 011 | 5,870 | | 4,157 | 5,870 |
| 018 | 4,940 | | 2,071 | 4,940 |
| 022 | 3,960 | | -0,143 | 3,960 |
| 031 | 3,510 | | -1,264 | 3,510 |
| 032 | 5,100 | | 2,430 | 5,100 |
| 033 | 4,340 | | 0,724 | 4,340 |
| 036 | 4,350 | | 0,747 | 4,350 |
| 047 | 4,210 | | 0,433 | 4,210 |
| 050 | 3,970 | | -0,118 | 3,970 |
| 054 | 4,390 | | 0,836 | 4,390 |
| 058 | 3,870 | | -0,367 | 3,870 |
| 061 | 4,220 | | 0,455 | 4,220 |
| 062 | 3,700 | | -0,790 | 3,700 |
| 064 | 5,680 | | 3,731 | 5,680 |
| 069 | 4,010 | | -0,018 | 4,010 |
| 070 | 4,363 | | 0,776 | 4,363 |
| 074 | 3,160 | | -2,136 | 3,160 |
| 076 | 4,050 | | 0,074 | 4,050 |
| 083 | 4,500 | | 1,083 | 4,500 |
| 085 | 4,134 | | 0,262 | 4,134 |
| 086 | 3,290 | | -1,812 | 3,290 |
| 089 | 3,590 | | -1,064 | 3,590 |
| 090 | 4,160 | | 0,320 | 4,160 |
| 093 | 3,880 | | -0,342 | 3,880 |
| 094 | 3,640 | | -0,940 | 3,640 |
| 098 | 3,840 | | -0,442 | 3,840 |
| 099 | 3,880 | | -0,342 | 3,880 |
| 101 | 3,520 | | -1,239 | 3,520 |
| 106 | 4,100 | | 0,186 | 4,100 |
| 111 | 4,310 | | 0,657 | 4,310 |
| 113 | 3,783 | | -0,584 | 3,783 |
| 118 | 3,710 | | -0,765 | 3,710 |
| 128 | 3,770 | | -0,616 | 3,770 |
| 129 | 4,200 | | 0,410 | 4,200 |
| 131 | 3,910 | | -0,267 | 3,910 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 3 **Sollwert:** 8,222 µg/L (empirischer Wert)
Merkmal: Vinylchlorid **Rel. Soll-Stdabw.:** 25,00% (Limited)
Anzahl Labore in Berechnung: 28 **Toleranzbereich:** 4,507 - 12,991 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 005 | 6,249 | | -1,062 | 6,249 |
| 009 | 6,740 | | -0,798 | 6,740 |
| 011 | 18,700 | | 4,394 | 18,700 |
| 018 | 6,430 | | -0,965 | 6,430 |
| 022 | 7,850 | | -0,200 | 7,850 |
| 031 | 6,270 | | -1,051 | 6,270 |
| 032 | 11,900 | | 1,542 | 11,900 |
| 033 | 10,100 | | 0,788 | 10,100 |
| 047 | 9,980 | | 0,737 | 9,980 |
| 050 | 35,200 | | 11,314 | 35,200 |
| 054 | 5,470 | | -1,482 | 5,470 |
| 058 | 7,470 | | -0,405 | 7,470 |
| 062 | 9,340 | | 0,469 | 9,340 |
| 064 | 17,300 | | 3,807 | 17,300 |
| 069 | 7,300 | | -0,496 | 7,300 |
| 070 | 4,250 | | -2,139 | 4,250 |
| 076 | 7,790 | | -0,233 | 7,790 |
| 083 | 8,400 | | 0,075 | 8,400 |
| 085 | 10,270 | | 0,859 | 10,270 |
| 086 | 8,590 | | 0,154 | 8,590 |
| 089 | 4,860 | | -1,810 | 4,860 |
| 090 | 10,900 | | 1,123 | 10,900 |
| 093 | 5,320 | | -1,562 | 5,320 |
| 099 | 7,470 | | -0,405 | 7,470 |
| 101 | 11,500 | | 1,375 | 11,500 |
| 106 | 9,500 | | 0,536 | 9,500 |
| 113 | 5,470 | | -1,482 | 5,470 |
| 128 | 8,400 | | 0,075 | 8,400 |

Probe 4

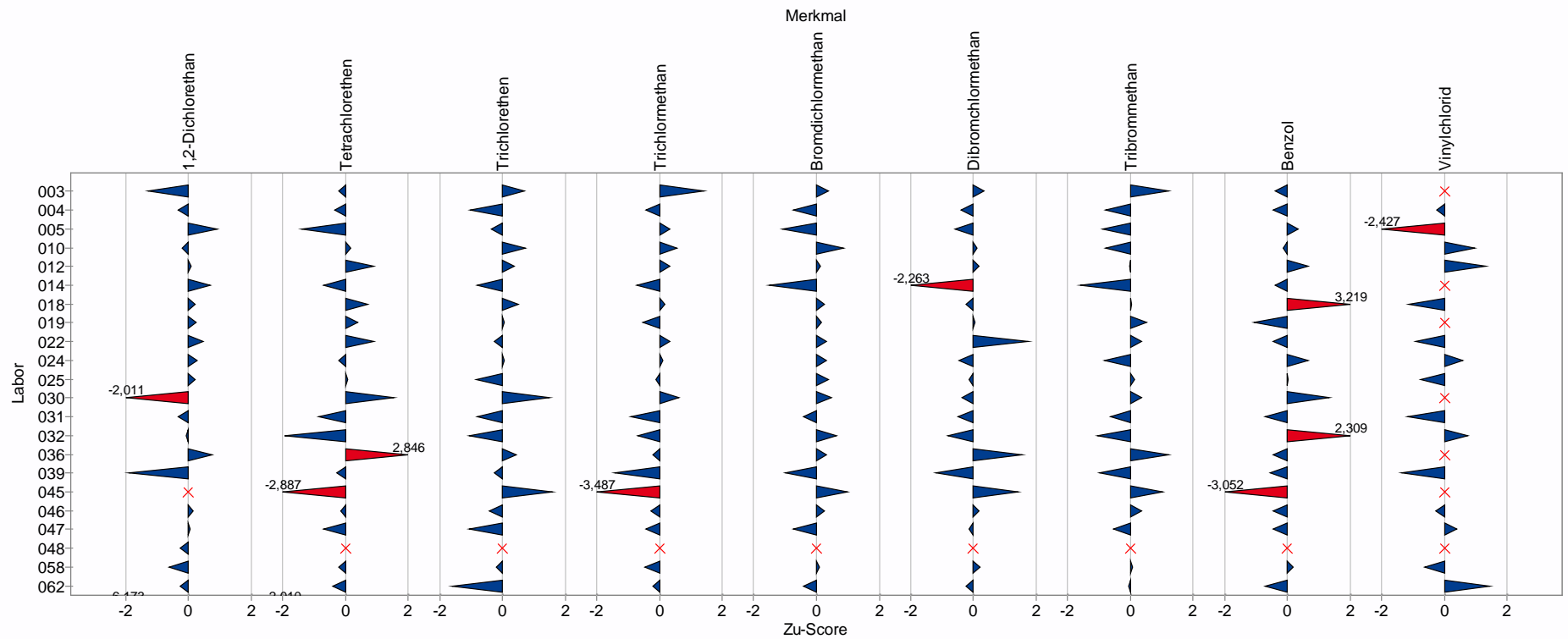
Kennwerte – Probe 4

Tabelle

| Probe 4 | Einheit | Anzahl der Labore | Sollwert | Soll-Stdabw. | Vergleich-Stdabw. | Rel. Soll-Stdabw. | Rel. Vergleich-Stdabw. | unt. Toleranzgr. | ob. Toleranzgr. | Messunsicherheit MU |
|-------------------|---------|-------------------|----------|--------------|-------------------|-------------------|------------------------|------------------|-----------------|---------------------|
| 1,2-Dichlorethan | µg/L | 43 | 12,827 | 1,709 | 1,709 | 13,32 % | 13,32 % | 9,608 | 16,505 | 2,54 % |
| Tetrachlorethen | µg/L | 44 | 4,091 | 0,635 | 0,635 | 15,51 % | 15,51 % | 2,906 | 5,475 | 2,92 % |
| Trichlorethen | µg/L | 44 | 5,649 | 0,889 | 0,889 | 15,74 % | 15,74 % | 3,989 | 7,591 | 2,97 % |
| Trichlormethan | µg/L | 44 | 11,340 | 1,300 | 1,300 | 11,46 % | 11,46 % | 8,874 | 14,106 | 2,16 % |
| Bromdichlormethan | µg/L | 43 | 13,684 | 1,246 | 1,246 | 9,11 % | 9,11 % | 11,295 | 16,301 | 1,74 % |
| Dibromchlormethan | µg/L | 43 | 3,094 | 0,341 | 0,341 | 11,03 % | 11,03 % | 2,445 | 3,818 | 2,10 % |
| Tribrommethan | µg/L | 43 | 3,592 | 0,458 | 0,458 | 12,76 % | 12,76 % | 2,727 | 4,574 | 2,43 % |
| Benzol | µg/L | 43 | 12,357 | 1,248 | 1,248 | 10,10 % | 10,10 % | 9,974 | 14,993 | 1,93 % |
| Vinylchlorid | µg/L | 30 | 7,830 | 1,958 | 2,289 | 25,00 % | 29,23 % | 4,292 | 12,372 | 6,67 % |

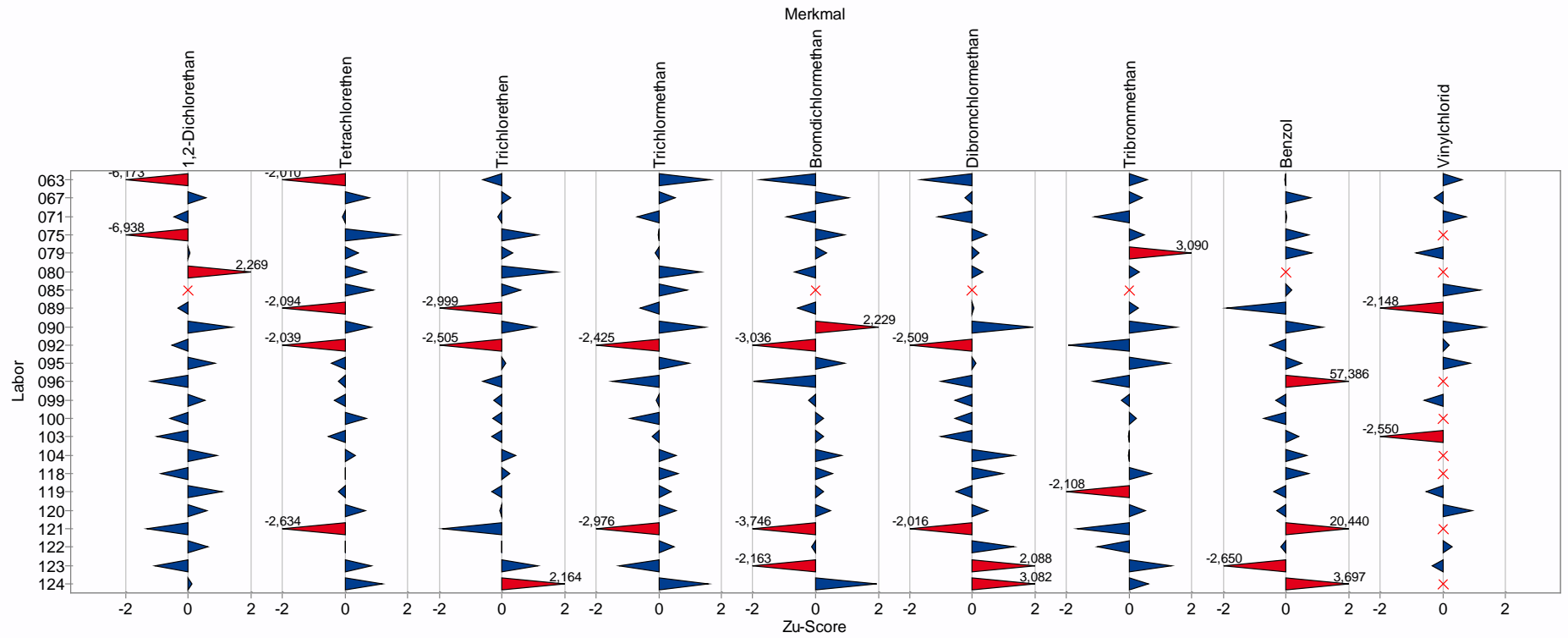
Übersicht z_U-Scores

Graphik 4a: z_U-scores Probe4, Teil 1



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Graphik 4b: z_U-scores Probe4, Teil 2



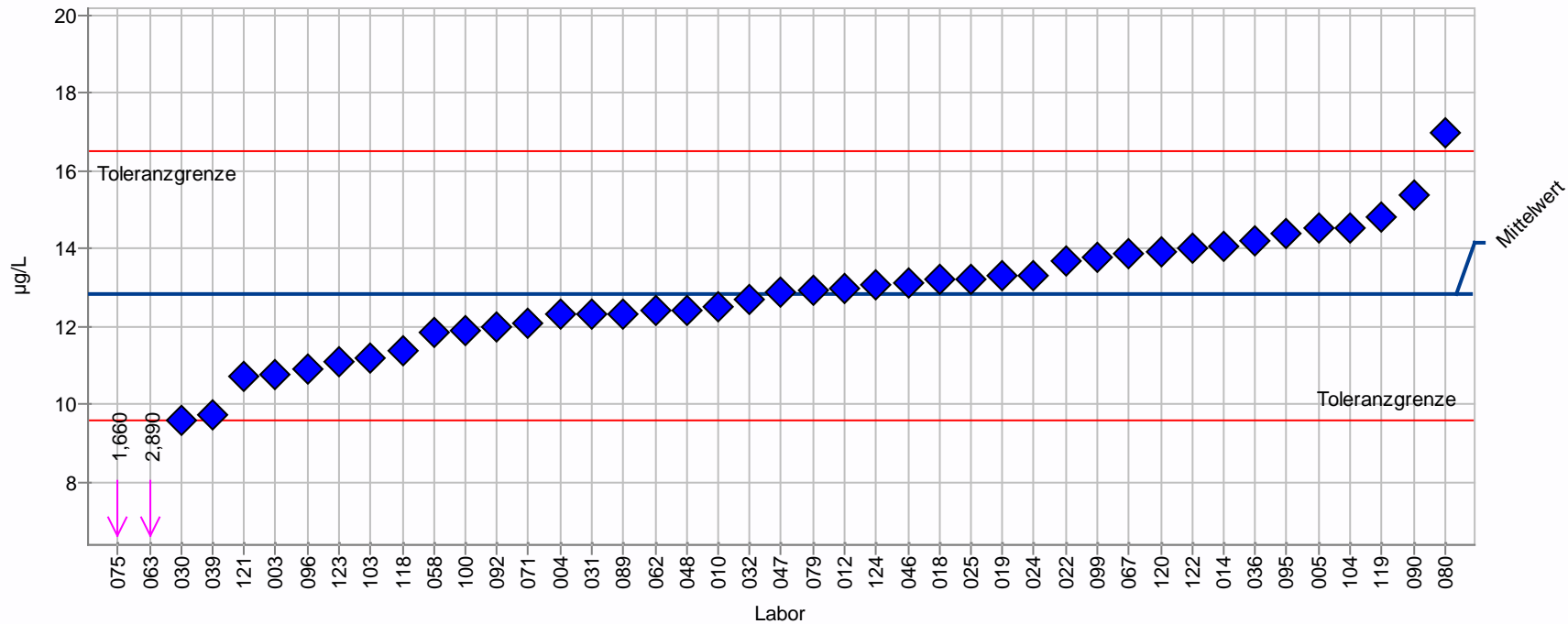
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Einzeldarstellung der Parameter

Grafik und Tabelle

Abbildung 28: Mittelwerte + Stdabw. für Niveau 4, 1,2-Dichlorethan

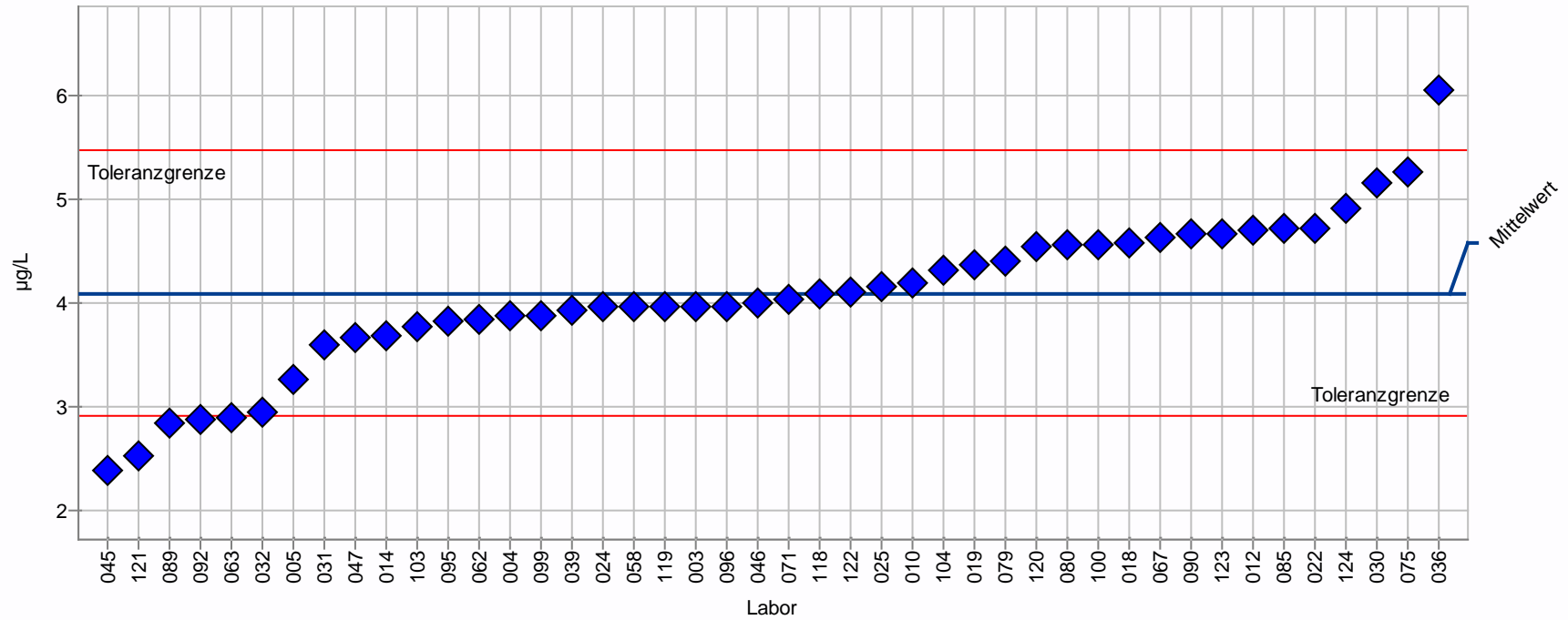
Probe: Niveau 4 Sollwert: 12,827 µg/L (empirischer Wert)
 Merkmal: 1,2-Dichlorethan Rel. Soll-Stdabw.: 13,32% (Limited)
 Anzahl Labore in Berechnung: 43 Toleranzbereich: 9,608 - 16,505 µg/L (|Zu-Score| <= 2,000)



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Abbildung 29: Mittelwerte + Stdabw. für Niveau 4, Tetrachlorethen

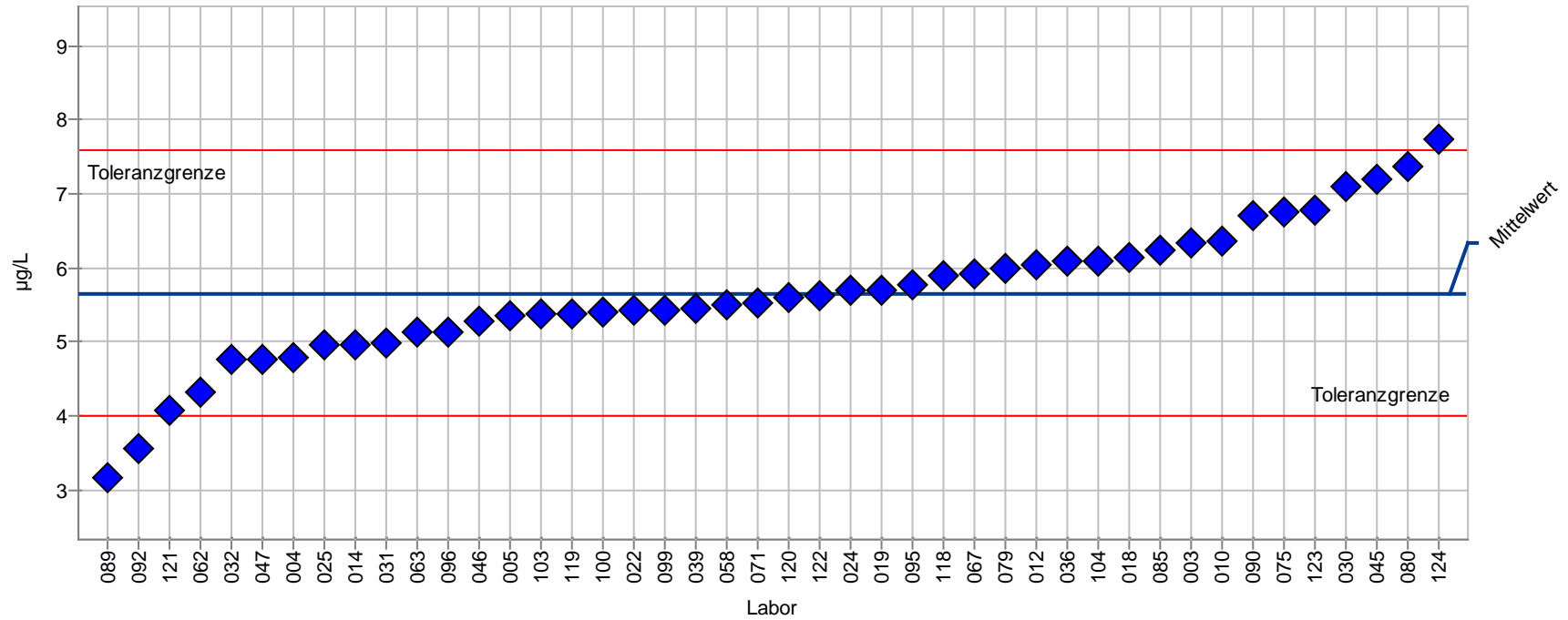
Probe: Niveau 4 Sollwert: 4,091 µg/L (empirischer Wert)
 Merkmal: Tetrachlorethen Rel. Soll-Stdabw.: 15,51% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 2,906 - 5,475 µg/L (|Zu-Score| <= 2,000)



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Abbildung 30: Mittelwerte + Stdabw. für Niveau 4, Trichlorethen

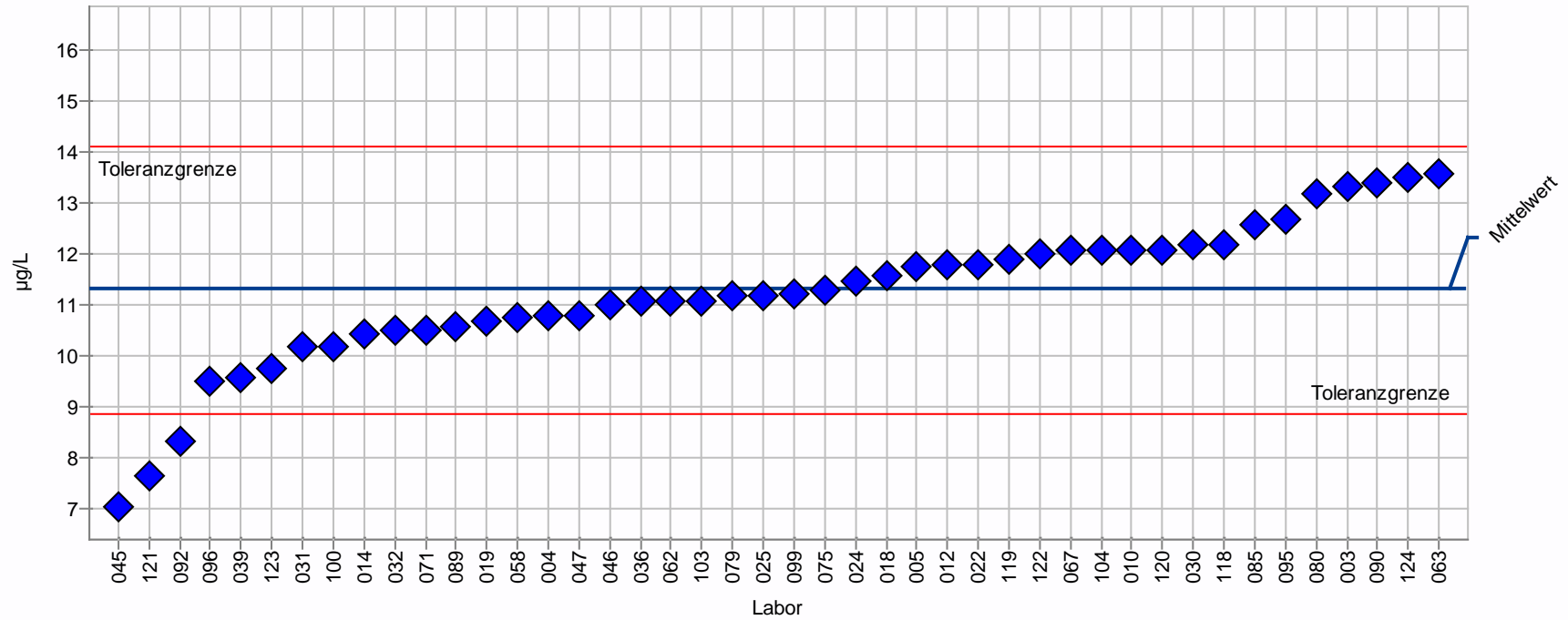
Probe: Niveau 4 Sollwert: 5,649 µg/L (empirischer Wert)
 Merkmal: Trichlorethen Rel. Soll-Stdabw.: 15,74% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 3,989 - 7,591 µg/L (|Zu-Score| <= 2,000)



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Abbildung 31: Mittelwerte + Stdabw. für Niveau 4, Trichlormethan

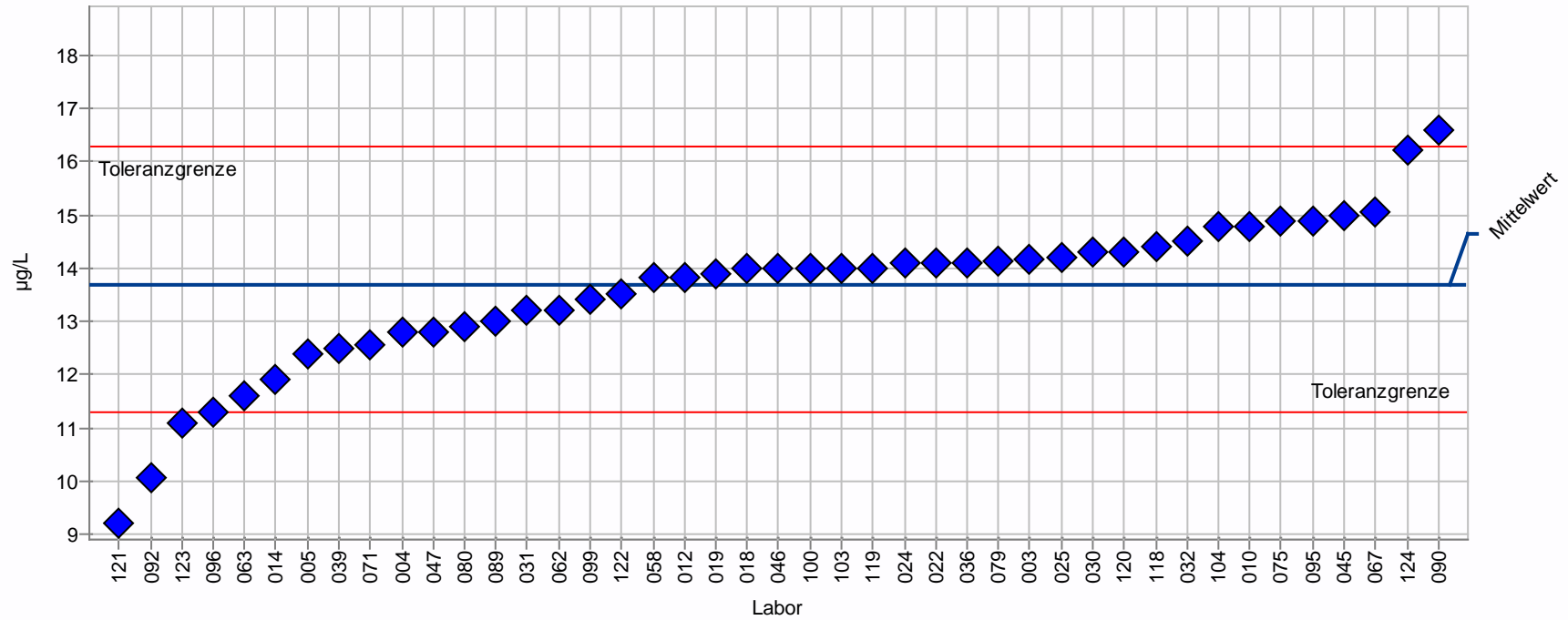
Probe: Niveau 4 Sollwert: 11,340 µg/L (empirischer Wert)
 Merkmal: Trichlormethan Rel. Soll-Stdabw.: 11,46% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 8,874 - 14,106 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 32: Mittelwerte + Stdabw. für Niveau 4, Bromdichlormethan

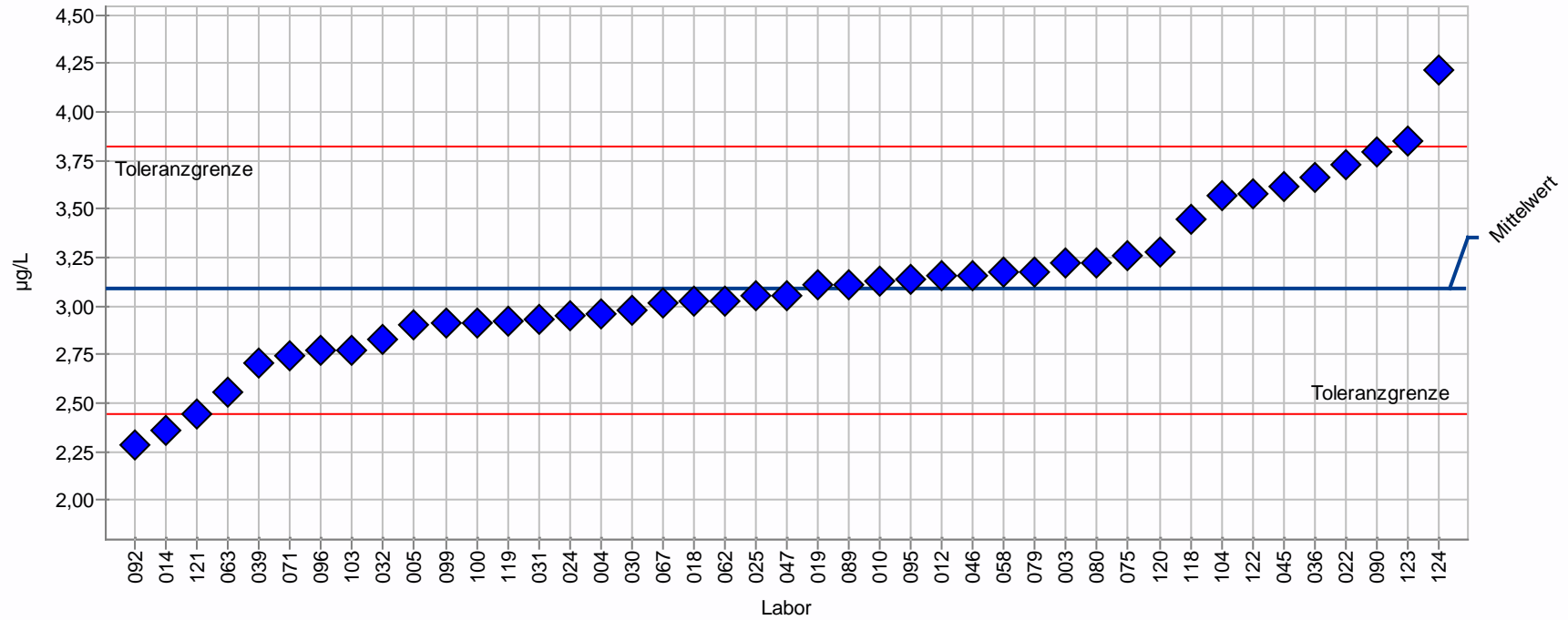
Probe: Niveau 4
 Merkmal: Bromdichlormethan
 Anzahl Labore in Berechnung: 43
 Sollwert: 13,684 µg/L (empirischer Wert)
 Rel. Soll-Stdabw.: 9,11% (Limited)
 Toleranzbereich: 11,295 - 16,301 µg/L ($|Z\text{-Score}| \leq 2,000$)



PROLab

Abbildung 33: Mittelwerte + Stdabw. für Niveau 4, Dibromchlormethan

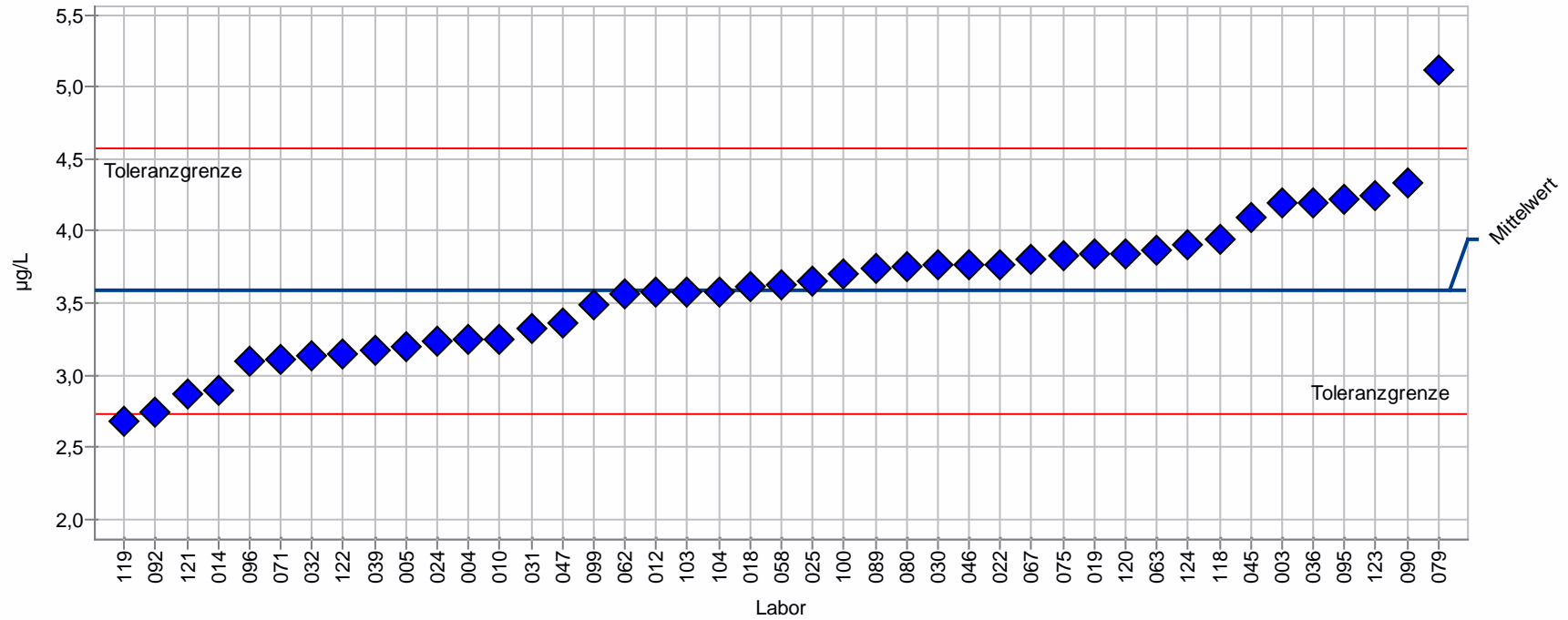
Probe: Niveau 4 Sollwert: 3,094 µg/L (empirischer Wert)
 Merkmal: Dibromchlormethan Rel. Soll-Stdabw.: 11,03% (Limited)
 Anzahl Labore in Berechnung: 43 Toleranzbereich: 2,445 - 3,818 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 34: Mittelwerte + Stdabw. für Niveau 4, Tribrommethan

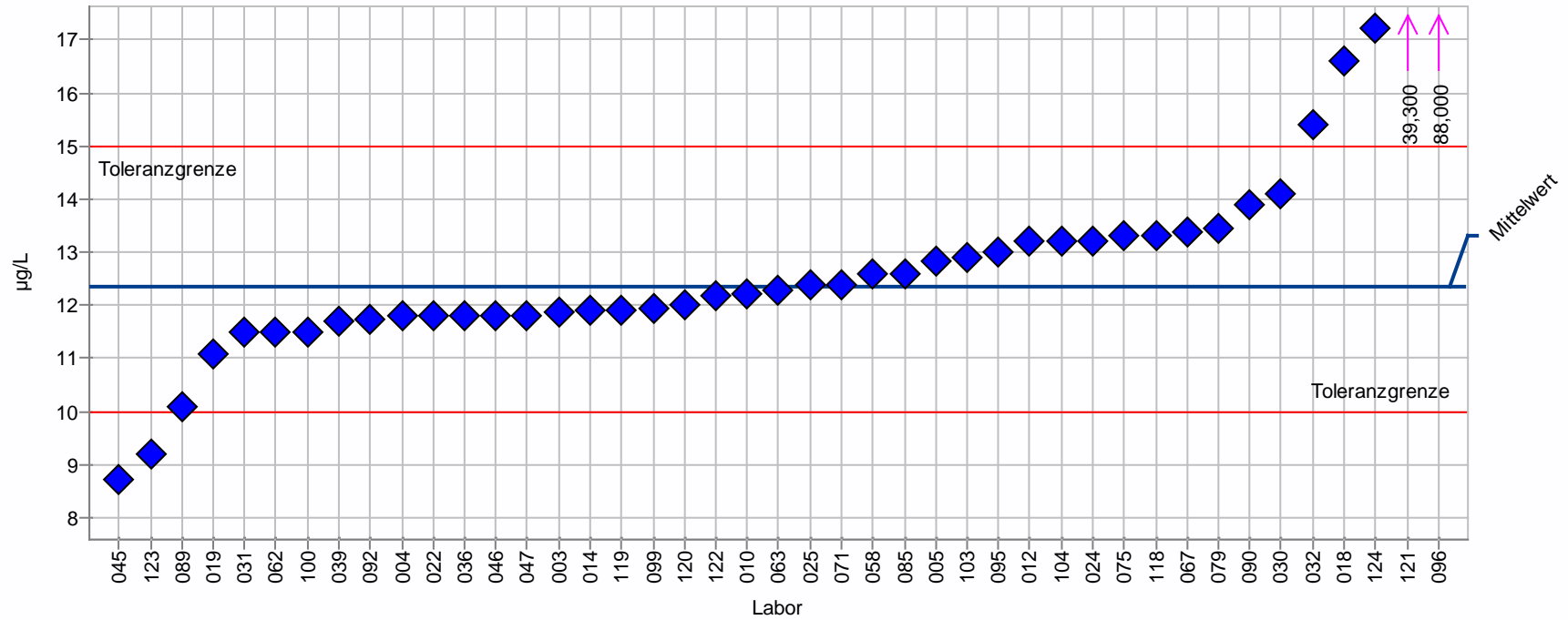
Probe: Niveau 4 Sollwert: 3,592 µg/L (empirischer Wert)
 Merkmal: Tribrommethan Rel. Soll-Stdabw.: 12,76% (Limited)
 Anzahl Labore in Berechnung: 43 Toleranzbereich: 2,727 - 4,574 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 35: Mittelwerte + Stdabw. für Niveau 4, Benzol

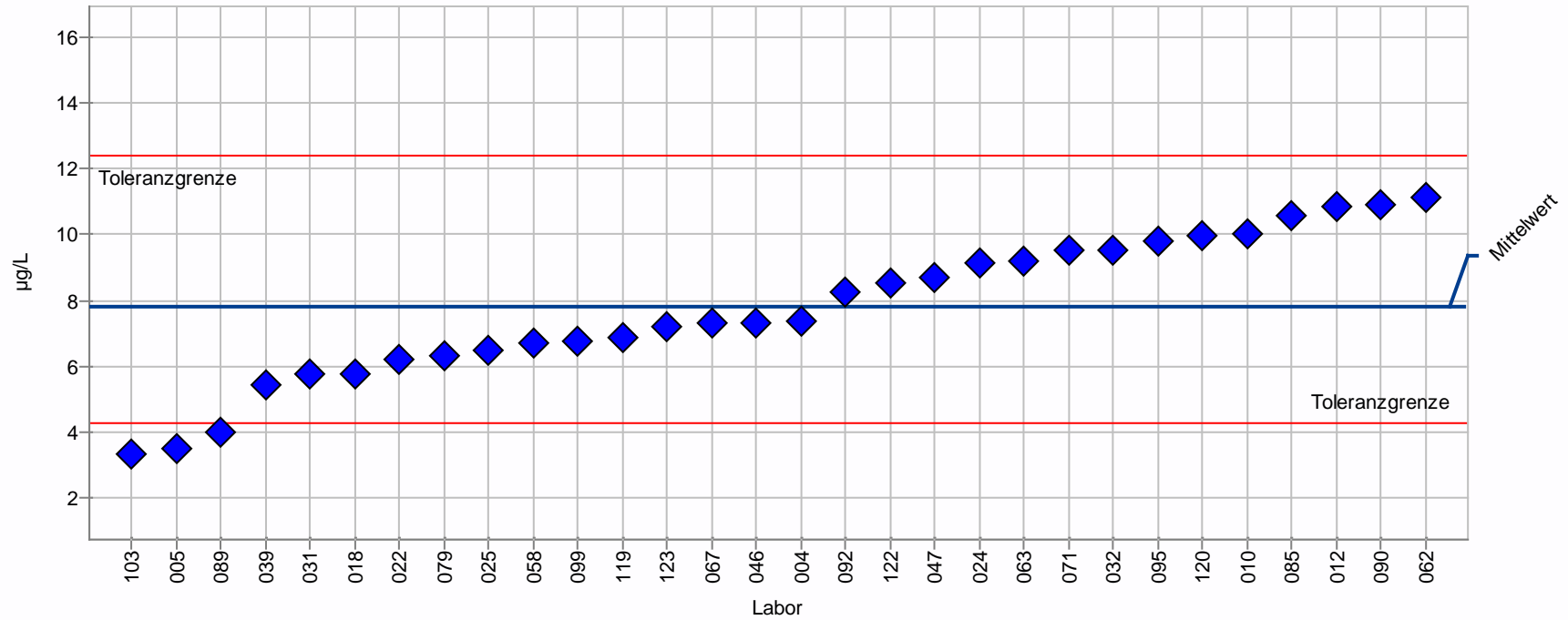
Probe: Niveau 4 Sollwert: 12,357 µg/L (empirischer Wert)
 Merkmal: Benzol Rel. Soll-Stdabw.: 10,10% (Limited)
 Anzahl Labore in Berechnung: 43 Toleranzbereich: 9,974 - 14,993 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 36: Mittelwerte + Stdabw. für Niveau 4, Vinylchlorid

Probe: Niveau 4 Sollwert: 7,830 µg/L (empirischer Wert)
 Merkmal: Vinylchlorid Rel. Soll-Stdabw.: 25,00% (Limited)
 Anzahl Labore in Berechnung: 30 Toleranzbereich: 4,292 - 12,372 µg/L (|Zu-Score| <= 2,000)



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 4 **Sollwert:** 12,827 µg/L (empirischer Wert)
Merkmal: 1,2-Dichlorethan **Rel. Soll-Stdabw.:** 13,32% (Limited)
Anzahl Labore in Berechnung: 43 **Toleranzbereich:** 9,608 - 16,505 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 003 | 10,770 | | -1,278 | 10,770 |
| 004 | 12,300 | | -0,327 | 12,300 |
| 005 | 14,530 | | 0,926 | 14,530 |
| 010 | 12,500 | | -0,203 | 12,500 |
| 012 | 12,970 | | 0,078 | 12,970 |
| 014 | 14,080 | | 0,681 | 14,080 |
| 018 | 13,200 | | 0,203 | 13,200 |
| 019 | 13,300 | | 0,257 | 13,300 |
| 022 | 13,700 | | 0,475 | 13,700 |
| 024 | 13,329 | | 0,273 | 13,329 |
| 025 | 13,200 | | 0,203 | 13,200 |
| 030 | 9,590 | | -2,011 | 9,590 |
| 031 | 12,300 | | -0,327 | 12,300 |
| 032 | 12,700 | | -0,079 | 12,700 |
| 036 | 14,200 | | 0,747 | 14,200 |
| 039 | 9,750 | | -1,912 | 9,750 |
| 046 | 13,100 | | 0,148 | 13,100 |
| 047 | 12,900 | | 0,040 | 12,900 |
| 048 | 12,420 | | -0,253 | 12,420 |
| 058 | 11,830 | | -0,619 | 11,830 |
| 062 | 12,400 | | -0,265 | 12,400 |
| 063 | 2,890 | | -6,173 | 2,890 |
| 067 | 13,851 | | 0,557 | 13,851 |
| 071 | 12,100 | | -0,452 | 12,100 |
| 075 | 1,660 | | -6,938 | 1,660 |
| 079 | 12,953 | | 0,068 | 12,953 |
| 080 | 17,000 | | 2,269 | 17,000 |
| 089 | 12,300 | | -0,327 | 12,300 |
| 090 | 15,400 | | 1,399 | 15,400 |
| 092 | 11,980 | | -0,526 | 11,980 |
| 095 | 14,400 | | 0,855 | 14,400 |
| 096 | 10,900 | | -1,197 | 10,900 |
| 099 | 13,780 | | 0,518 | 13,780 |
| 100 | 11,900 | | -0,576 | 11,900 |
| 103 | 11,200 | | -1,011 | 11,200 |
| 104 | 14,540 | | 0,932 | 14,540 |
| 118 | 11,400 | | -0,887 | 11,400 |
| 119 | 14,800 | | 1,073 | 14,800 |
| 120 | 13,900 | | 0,583 | 13,900 |
| 121 | 10,700 | | -1,321 | 10,700 |
| 122 | 14,000 | | 0,638 | 14,000 |
| 123 | 11,100 | | -1,073 | 11,100 |
| 124 | 13,070 | | 0,132 | 13,070 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 4 **Sollwert:** 4,091 µg/L (empirischer Wert)
Merkmal: Tetrachlorethen **Rel. Soll-Stdabw.:** 15,51% (Limited)
Anzahl Labore in Berechnung: 44 **Toleranzbereich:** 2,906 - 5,475 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 003 | 3,970 | | -0,204 | 3,970 |
| 004 | 3,880 | | -0,356 | 3,880 |
| 005 | 3,270 | | -1,386 | 3,270 |
| 010 | 4,200 | | 0,157 | 4,200 |
| 012 | 4,710 | | 0,894 | 4,710 |
| 014 | 3,680 | | -0,694 | 3,680 |
| 018 | 4,580 | | 0,707 | 4,580 |
| 019 | 4,360 | | 0,389 | 4,360 |
| 022 | 4,720 | | 0,909 | 4,720 |
| 024 | 3,958 | | -0,225 | 3,958 |
| 025 | 4,150 | | 0,085 | 4,150 |
| 030 | 5,150 | | 1,530 | 5,150 |
| 031 | 3,590 | | -0,846 | 3,590 |
| 032 | 2,950 | | -1,925 | 2,950 |
| 036 | 6,060 | | 2,846 | 6,060 |
| 039 | 3,930 | | -0,272 | 3,930 |
| 045 | 2,380 | | -2,887 | 2,380 |
| 046 | 4,000 | | -0,154 | 4,000 |
| 047 | 3,670 | | -0,711 | 3,670 |
| 058 | 3,960 | | -0,221 | 3,960 |
| 062 | 3,850 | | -0,407 | 3,850 |
| 063 | 2,900 | | -2,010 | 2,900 |
| 067 | 4,627 | | 0,775 | 4,627 |
| 071 | 4,040 | | -0,086 | 4,040 |
| 075 | 5,260 | | 1,689 | 5,260 |
| 079 | 4,395 | | 0,439 | 4,395 |
| 080 | 4,560 | | 0,678 | 4,560 |
| 085 | 4,718 | | 0,906 | 4,718 |
| 089 | 2,850 | | -2,094 | 2,850 |
| 090 | 4,670 | | 0,837 | 4,670 |
| 092 | 2,883 | | -2,039 | 2,883 |
| 095 | 3,830 | | -0,441 | 3,830 |
| 096 | 3,970 | | -0,204 | 3,970 |
| 099 | 3,880 | | -0,356 | 3,880 |
| 100 | 4,570 | | 0,692 | 4,570 |
| 103 | 3,770 | | -0,542 | 3,770 |
| 104 | 4,310 | | 0,316 | 4,310 |
| 118 | 4,090 | | -0,002 | 4,090 |
| 119 | 3,960 | | -0,221 | 3,960 |
| 120 | 4,550 | | 0,663 | 4,550 |
| 121 | 2,530 | | -2,634 | 2,530 |
| 122 | 4,101 | | 0,014 | 4,101 |
| 123 | 4,670 | | 0,837 | 4,670 |
| 124 | 4,920 | | 1,198 | 4,920 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 4 **Sollwert:** 5,649 µg/L (empirischer Wert)
Merkmal: Trichlorethen **Rel. Soll-Stdabw.:** 15,74% (Limited)
Anzahl Labore in Berechnung: 44 **Toleranzbereich:** 3,989 - 7,591 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 003 | 6,340 | | 0,712 | 6,340 |
| 004 | 4,790 | | -1,035 | 4,790 |
| 005 | 5,355 | | -0,354 | 5,355 |
| 010 | 6,360 | | 0,732 | 6,360 |
| 012 | 6,030 | | 0,393 | 6,030 |
| 014 | 4,970 | | -0,818 | 4,970 |
| 018 | 6,150 | | 0,516 | 6,150 |
| 019 | 5,710 | | 0,063 | 5,710 |
| 022 | 5,420 | | -0,276 | 5,420 |
| 024 | 5,696 | | 0,049 | 5,696 |
| 025 | 4,950 | | -0,842 | 4,950 |
| 030 | 7,110 | | 1,505 | 7,110 |
| 031 | 4,980 | | -0,806 | 4,980 |
| 032 | 4,760 | | -1,071 | 4,760 |
| 036 | 6,080 | | 0,444 | 6,080 |
| 039 | 5,440 | | -0,252 | 5,440 |
| 045 | 7,190 | | 1,587 | 7,190 |
| 046 | 5,290 | | -0,432 | 5,290 |
| 047 | 4,760 | | -1,071 | 4,760 |
| 058 | 5,490 | | -0,191 | 5,490 |
| 062 | 4,320 | | -1,601 | 4,320 |
| 063 | 5,140 | | -0,613 | 5,140 |
| 067 | 5,912 | | 0,271 | 5,912 |
| 071 | 5,530 | | -0,143 | 5,530 |
| 075 | 6,760 | | 1,144 | 6,760 |
| 079 | 5,993 | | 0,355 | 5,993 |
| 080 | 7,360 | | 1,762 | 7,360 |
| 085 | 6,242 | | 0,611 | 6,242 |
| 089 | 3,160 | | -2,999 | 3,160 |
| 090 | 6,710 | | 1,093 | 6,710 |
| 092 | 3,570 | | -2,505 | 3,570 |
| 095 | 5,770 | | 0,125 | 5,770 |
| 096 | 5,140 | | -0,613 | 5,140 |
| 099 | 5,430 | | -0,264 | 5,430 |
| 100 | 5,410 | | -0,288 | 5,410 |
| 103 | 5,390 | | -0,312 | 5,390 |
| 104 | 6,080 | | 0,444 | 6,080 |
| 118 | 5,890 | | 0,248 | 5,890 |
| 119 | 5,390 | | -0,312 | 5,390 |
| 120 | 5,590 | | -0,071 | 5,590 |
| 121 | 4,080 | | -1,891 | 4,080 |
| 122 | 5,632 | | -0,020 | 5,632 |
| 123 | 6,770 | | 1,155 | 6,770 |
| 124 | 7,750 | | 2,164 | 7,750 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 4 **Sollwert:** 11,340 µg/L (empirischer Wert)
Merkmal: Trichlormethan **Rel. Soll-Stdabw.:** 11,46% (Limited)
Anzahl Labore in Berechnung: 44 **Toleranzbereich:** 8,874 - 14,106 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 003 | 13,320 | | 1,431 | 13,320 |
| 004 | 10,800 | | -0,438 | 10,800 |
| 005 | 11,780 | | 0,318 | 11,780 |
| 010 | 12,100 | | 0,549 | 12,100 |
| 012 | 11,800 | | 0,332 | 11,800 |
| 014 | 10,460 | | -0,714 | 10,460 |
| 018 | 11,600 | | 0,188 | 11,600 |
| 019 | 10,700 | | -0,519 | 10,700 |
| 022 | 11,800 | | 0,332 | 11,800 |
| 024 | 11,477 | | 0,099 | 11,477 |
| 025 | 11,200 | | -0,114 | 11,200 |
| 030 | 12,200 | | 0,622 | 12,200 |
| 031 | 10,200 | | -0,925 | 10,200 |
| 032 | 10,500 | | -0,681 | 10,500 |
| 036 | 11,100 | | -0,195 | 11,100 |
| 039 | 9,580 | | -1,427 | 9,580 |
| 045 | 7,040 | | -3,487 | 7,040 |
| 046 | 11,000 | | -0,276 | 11,000 |
| 047 | 10,800 | | -0,438 | 10,800 |
| 058 | 10,770 | | -0,462 | 10,770 |
| 062 | 11,100 | | -0,195 | 11,100 |
| 063 | 13,600 | | 1,634 | 13,600 |
| 067 | 12,082 | | 0,536 | 12,082 |
| 071 | 10,500 | | -0,681 | 10,500 |
| 075 | 11,300 | | -0,033 | 11,300 |
| 079 | 11,188 | | -0,124 | 11,188 |
| 080 | 13,200 | | 1,345 | 13,200 |
| 085 | 12,577 | | 0,894 | 12,577 |
| 089 | 10,600 | | -0,600 | 10,600 |
| 090 | 13,400 | | 1,489 | 13,400 |
| 092 | 8,350 | | -2,425 | 8,350 |
| 095 | 12,700 | | 0,983 | 12,700 |
| 096 | 9,520 | | -1,476 | 9,520 |
| 099 | 11,230 | | -0,090 | 11,230 |
| 100 | 10,200 | | -0,925 | 10,200 |
| 103 | 11,100 | | -0,195 | 11,100 |
| 104 | 12,090 | | 0,542 | 12,090 |
| 118 | 12,200 | | 0,622 | 12,200 |
| 119 | 11,900 | | 0,405 | 11,900 |
| 120 | 12,100 | | 0,549 | 12,100 |
| 121 | 7,670 | | -2,976 | 7,670 |
| 122 | 12,010 | | 0,484 | 12,010 |
| 123 | 9,780 | | -1,265 | 9,780 |
| 124 | 13,510 | | 1,569 | 13,510 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 4 **Sollwert:** 13,684 µg/L (empirischer Wert)
Merkmal: Bromdichlormethan **Rel. Soll-Stdabw.:** 9,11% (Limited)
Anzahl Labore in Berechnung: 43 **Toleranzbereich:** 11,295 - 16,301 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 003 | 14,180 | | 0,379 | 14,180 |
| 004 | 12,800 | | -0,740 | 12,800 |
| 005 | 12,380 | | -1,092 | 12,380 |
| 010 | 14,800 | | 0,853 | 14,800 |
| 012 | 13,840 | | 0,119 | 13,840 |
| 014 | 11,900 | | -1,494 | 11,900 |
| 018 | 14,000 | | 0,241 | 14,000 |
| 019 | 13,900 | | 0,165 | 13,900 |
| 022 | 14,100 | | 0,318 | 14,100 |
| 024 | 14,090 | | 0,310 | 14,090 |
| 025 | 14,200 | | 0,394 | 14,200 |
| 030 | 14,300 | | 0,471 | 14,300 |
| 031 | 13,200 | | -0,405 | 13,200 |
| 032 | 14,500 | | 0,624 | 14,500 |
| 036 | 14,100 | | 0,318 | 14,100 |
| 039 | 12,500 | | -0,991 | 12,500 |
| 045 | 15,000 | | 1,006 | 15,000 |
| 046 | 14,000 | | 0,241 | 14,000 |
| 047 | 12,800 | | -0,740 | 12,800 |
| 058 | 13,830 | | 0,112 | 13,830 |
| 062 | 13,200 | | -0,405 | 13,200 |
| 063 | 11,600 | | -1,745 | 11,600 |
| 067 | 15,060 | | 1,052 | 15,060 |
| 071 | 12,560 | | -0,941 | 12,560 |
| 075 | 14,900 | | 0,929 | 14,900 |
| 079 | 14,140 | | 0,348 | 14,140 |
| 080 | 12,900 | | -0,656 | 12,900 |
| 089 | 13,000 | | -0,573 | 13,000 |
| 090 | 16,600 | | 2,229 | 16,600 |
| 092 | 10,058 | | -3,036 | 10,058 |
| 095 | 14,900 | | 0,929 | 14,900 |
| 096 | 11,300 | | -1,996 | 11,300 |
| 099 | 13,400 | | -0,238 | 13,400 |
| 100 | 14,000 | | 0,241 | 14,000 |
| 103 | 14,000 | | 0,241 | 14,000 |
| 104 | 14,790 | | 0,845 | 14,790 |
| 118 | 14,400 | | 0,547 | 14,400 |
| 119 | 14,000 | | 0,241 | 14,000 |
| 120 | 14,300 | | 0,471 | 14,300 |
| 121 | 9,210 | | -3,746 | 9,210 |
| 122 | 13,530 | | -0,129 | 13,530 |
| 123 | 11,100 | | -2,163 | 11,100 |
| 124 | 16,230 | | 1,946 | 16,230 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 4 Sollwert: 3,094 µg/L (empirischer Wert)
 Merkmal: Dibromchlormethan Rel. Soll-Stdabw.: 11,03% (Limited)
 Anzahl Labore in Berechnung: 43 Toleranzbereich: 2,445 - 3,818 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 003 | 3,220 | | 0,348 | 3,220 |
| 004 | 2,960 | | -0,413 | 2,960 |
| 005 | 2,901 | | -0,595 | 2,901 |
| 010 | 3,130 | | 0,100 | 3,130 |
| 012 | 3,160 | | 0,183 | 3,160 |
| 014 | 2,360 | | -2,263 | 2,360 |
| 018 | 3,020 | | -0,228 | 3,020 |
| 019 | 3,110 | | 0,044 | 3,110 |
| 022 | 3,730 | | 1,757 | 3,730 |
| 024 | 2,949 | | -0,447 | 2,949 |
| 025 | 3,050 | | -0,135 | 3,050 |
| 030 | 2,980 | | -0,351 | 2,980 |
| 031 | 2,930 | | -0,505 | 2,930 |
| 032 | 2,830 | | -0,814 | 2,830 |
| 036 | 3,660 | | 1,563 | 3,660 |
| 039 | 2,710 | | -1,184 | 2,710 |
| 045 | 3,610 | | 1,425 | 3,610 |
| 046 | 3,160 | | 0,183 | 3,160 |
| 047 | 3,050 | | -0,135 | 3,050 |
| 058 | 3,170 | | 0,210 | 3,170 |
| 062 | 3,020 | | -0,228 | 3,020 |
| 063 | 2,560 | | -1,646 | 2,560 |
| 067 | 3,013 | | -0,249 | 3,013 |
| 071 | 2,740 | | -1,091 | 2,740 |
| 075 | 3,260 | | 0,459 | 3,260 |
| 079 | 3,175 | | 0,224 | 3,175 |
| 080 | 3,220 | | 0,348 | 3,220 |
| 089 | 3,110 | | 0,044 | 3,110 |
| 090 | 3,790 | | 1,922 | 3,790 |
| 092 | 2,280 | | -2,509 | 2,280 |
| 095 | 3,140 | | 0,127 | 3,140 |
| 096 | 2,770 | | -0,999 | 2,770 |
| 099 | 2,910 | | -0,567 | 2,910 |
| 100 | 2,910 | | -0,567 | 2,910 |
| 103 | 2,770 | | -0,999 | 2,770 |
| 104 | 3,570 | | 1,315 | 3,570 |
| 118 | 3,450 | | 0,983 | 3,450 |
| 119 | 2,920 | | -0,536 | 2,920 |
| 120 | 3,280 | | 0,514 | 3,280 |
| 121 | 2,440 | | -2,016 | 2,440 |
| 122 | 3,580 | | 1,342 | 3,580 |
| 123 | 3,850 | | 2,088 | 3,850 |
| 124 | 4,210 | | 3,082 | 4,210 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 4 **Sollwert:** 3,592 µg/L (empirischer Wert)
Merkmal: Tribrommethan **Rel. Soll-Stdabw.:** 12,76% (Limited)
Anzahl Labore in Berechnung: 43 **Toleranzbereich:** 2,727 - 4,574 µg/L (|Zu-Score| ≤ 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 003 | 4,190 | | 1,217 | 4,190 |
| 004 | 3,250 | | -0,790 | 3,250 |
| 005 | 3,204 | | -0,897 | 3,204 |
| 010 | 3,250 | | -0,790 | 3,250 |
| 012 | 3,580 | | -0,027 | 3,580 |
| 014 | 2,900 | | -1,600 | 2,900 |
| 018 | 3,610 | | 0,037 | 3,610 |
| 019 | 3,840 | | 0,505 | 3,840 |
| 022 | 3,770 | | 0,363 | 3,770 |
| 024 | 3,241 | | -0,811 | 3,241 |
| 025 | 3,650 | | 0,118 | 3,650 |
| 030 | 3,760 | | 0,342 | 3,760 |
| 031 | 3,320 | | -0,629 | 3,320 |
| 032 | 3,140 | | -1,045 | 3,140 |
| 036 | 4,190 | | 1,217 | 4,190 |
| 039 | 3,170 | | -0,975 | 3,170 |
| 045 | 4,100 | | 1,034 | 4,100 |
| 046 | 3,760 | | 0,342 | 3,760 |
| 047 | 3,360 | | -0,536 | 3,360 |
| 058 | 3,630 | | 0,078 | 3,630 |
| 062 | 3,560 | | -0,074 | 3,560 |
| 063 | 3,870 | | 0,566 | 3,870 |
| 067 | 3,798 | | 0,420 | 3,798 |
| 071 | 3,110 | | -1,114 | 3,110 |
| 075 | 3,830 | | 0,485 | 3,830 |
| 079 | 5,110 | | 3,090 | 5,110 |
| 080 | 3,750 | | 0,322 | 3,750 |
| 089 | 3,740 | | 0,301 | 3,740 |
| 090 | 4,330 | | 1,502 | 4,330 |
| 092 | 2,750 | | -1,947 | 2,750 |
| 095 | 4,220 | | 1,279 | 4,220 |
| 096 | 3,100 | | -1,137 | 3,100 |
| 099 | 3,490 | | -0,236 | 3,490 |
| 100 | 3,700 | | 0,220 | 3,700 |
| 103 | 3,580 | | -0,027 | 3,580 |
| 104 | 3,580 | | -0,027 | 3,580 |
| 118 | 3,940 | | 0,709 | 3,940 |
| 119 | 2,680 | | -2,108 | 2,680 |
| 120 | 3,840 | | 0,505 | 3,840 |
| 121 | 2,870 | | -1,669 | 2,870 |
| 122 | 3,145 | | -1,033 | 3,145 |
| 123 | 4,250 | | 1,340 | 4,250 |
| 124 | 3,900 | | 0,627 | 3,900 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 4 **Sollwert:** 12,357 µg/L (empirischer Wert)
Merkmal: Benzol **Rel. Soll-Stdabw.:** 10,10% (Limited)
Anzahl Labore in Berechnung: 43 **Toleranzbereich:** 9,974 - 14,993 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 003 | 11,880 | | -0,400 | 11,880 |
| 004 | 11,800 | | -0,468 | 11,800 |
| 005 | 12,820 | | 0,351 | 12,820 |
| 010 | 12,200 | | -0,132 | 12,200 |
| 012 | 13,210 | | 0,647 | 13,210 |
| 014 | 11,900 | | -0,384 | 11,900 |
| 018 | 16,600 | | 3,219 | 16,600 |
| 019 | 11,100 | | -1,055 | 11,100 |
| 022 | 11,800 | | -0,468 | 11,800 |
| 024 | 13,216 | | 0,652 | 13,216 |
| 025 | 12,400 | | 0,033 | 12,400 |
| 030 | 14,100 | | 1,322 | 14,100 |
| 031 | 11,500 | | -0,719 | 11,500 |
| 032 | 15,400 | | 2,309 | 15,400 |
| 036 | 11,800 | | -0,468 | 11,800 |
| 039 | 11,700 | | -0,551 | 11,700 |
| 045 | 8,720 | | -3,052 | 8,720 |
| 046 | 11,800 | | -0,468 | 11,800 |
| 047 | 11,800 | | -0,468 | 11,800 |
| 058 | 12,590 | | 0,177 | 12,590 |
| 062 | 11,500 | | -0,719 | 11,500 |
| 063 | 12,300 | | -0,048 | 12,300 |
| 067 | 13,380 | | 0,776 | 13,380 |
| 071 | 12,400 | | 0,033 | 12,400 |
| 075 | 13,300 | | 0,715 | 13,300 |
| 079 | 13,445 | | 0,825 | 13,445 |
| 085 | 12,602 | | 0,186 | 12,602 |
| 089 | 10,100 | | -1,894 | 10,100 |
| 090 | 13,900 | | 1,171 | 13,900 |
| 092 | 11,750 | | -0,509 | 11,750 |
| 095 | 13,000 | | 0,488 | 13,000 |
| 096 | 88,000 | | 57,386 | 88,000 |
| 099 | 11,950 | | -0,342 | 11,950 |
| 100 | 11,500 | | -0,719 | 11,500 |
| 103 | 12,900 | | 0,412 | 12,900 |
| 104 | 13,210 | | 0,647 | 13,210 |
| 118 | 13,300 | | 0,715 | 13,300 |
| 119 | 11,900 | | -0,384 | 11,900 |
| 120 | 12,000 | | -0,300 | 12,000 |
| 121 | 39,300 | | 20,440 | 39,300 |
| 122 | 12,170 | | -0,157 | 12,170 |
| 123 | 9,200 | | -2,650 | 9,200 |
| 124 | 17,230 | | 3,697 | 17,230 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 4 **Sollwert:** 7,830 µg/L (empirischer Wert)
Merkmal: Vinylchlorid **Rel. Soll-Stdabw.:** 25,00% (Limited)
Anzahl Labore in Berechnung: 30 **Toleranzbereich:** 4,292 - 12,372 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 004 | 7,400 | | -0,243 | 7,400 |
| 005 | 3,537 | | -2,427 | 3,537 |
| 010 | 10,000 | | 0,955 | 10,000 |
| 012 | 10,850 | | 1,330 | 10,850 |
| 018 | 5,800 | | -1,148 | 5,800 |
| 022 | 6,190 | | -0,927 | 6,190 |
| 024 | 9,152 | | 0,582 | 9,152 |
| 025 | 6,500 | | -0,752 | 6,500 |
| 031 | 5,770 | | -1,165 | 5,770 |
| 032 | 9,520 | | 0,744 | 9,520 |
| 039 | 5,420 | | -1,363 | 5,420 |
| 046 | 7,330 | | -0,283 | 7,330 |
| 047 | 8,700 | | 0,383 | 8,700 |
| 058 | 6,700 | | -0,639 | 6,700 |
| 062 | 11,100 | | 1,440 | 11,100 |
| 063 | 9,210 | | 0,608 | 9,210 |
| 067 | 7,316 | | -0,291 | 7,316 |
| 071 | 9,500 | | 0,735 | 9,500 |
| 079 | 6,335 | | -0,845 | 6,335 |
| 085 | 10,556 | | 1,200 | 10,556 |
| 089 | 4,030 | | -2,148 | 4,030 |
| 090 | 10,900 | | 1,352 | 10,900 |
| 092 | 8,268 | | 0,193 | 8,268 |
| 095 | 9,820 | | 0,876 | 9,820 |
| 096 | | | | |
| 099 | 6,750 | | -0,611 | 6,750 |
| 103 | 3,320 | | -2,550 | 3,320 |
| 119 | 6,890 | | -0,532 | 6,890 |
| 120 | 9,990 | | 0,951 | 9,990 |
| 122 | 8,518 | | 0,303 | 8,518 |
| 123 | 7,230 | | -0,339 | 7,230 |

Probe 5

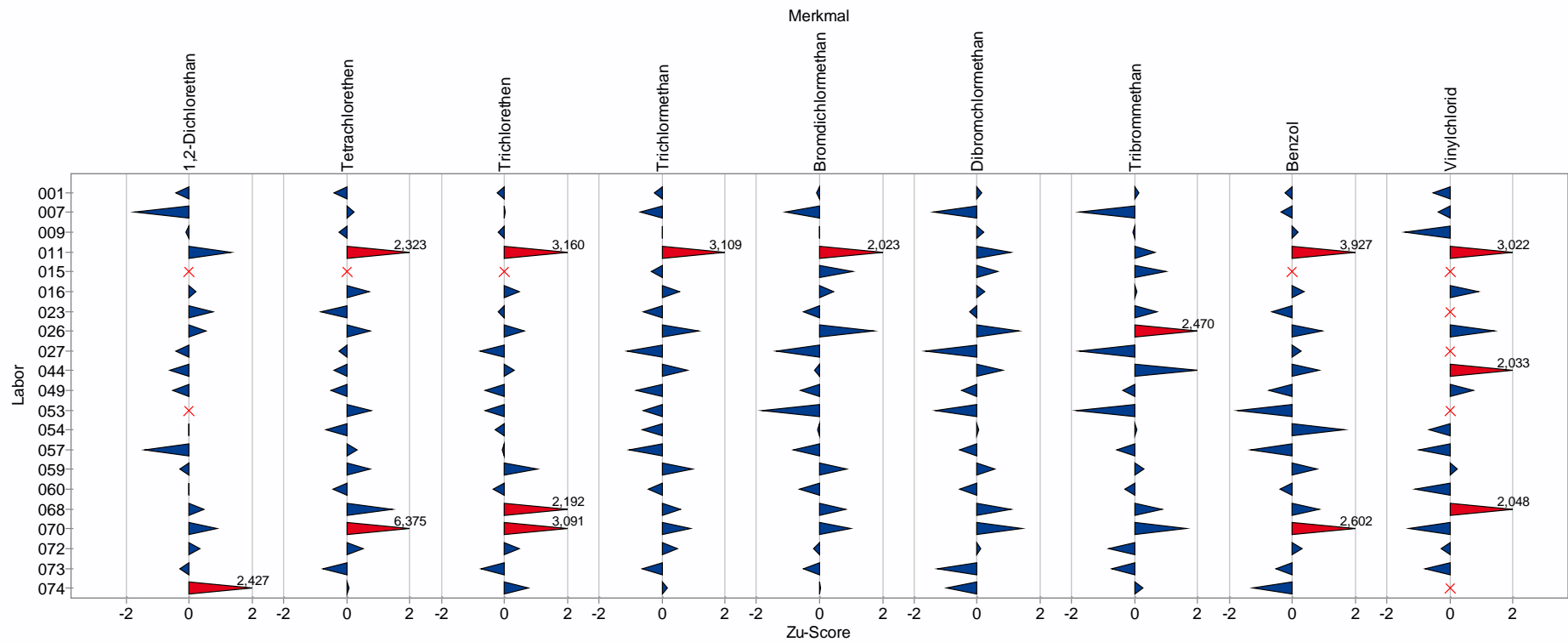
Kennwerte – Probe 5

Tabelle

| Probe 5 | Einheit | Anzahl der Labore | Sollwert | Soll-Stdabw. | Vergleich-Stdabw. | Rel. Soll-Stdabw. | Rel. Vergleich-Stdabw. | unt. Toleranzgr. | ob. Toleranzgr. | Messunsicherheit MU |
|-------------------|---------|-------------------|----------|--------------|-------------------|-------------------|------------------------|------------------|-----------------|---------------------|
| 1,2-Dichlorethan | µg/L | 39 | 15,097 | 2,205 | 2,205 | 14,60 % | 14,60 % | 10,965 | 19,879 | 2,92 % |
| Tetrachlorethen | µg/L | 40 | 2,136 | 0,386 | 0,386 | 18,09 % | 18,09 % | 1,421 | 2,992 | 3,58 % |
| Trichlorethen | µg/L | 40 | 7,088 | 1,184 | 1,184 | 16,71 % | 16,71 % | 4,886 | 9,691 | 3,30 % |
| Trichlormethan | µg/L | 42 | 7,230 | 0,977 | 0,977 | 13,51 % | 13,51 % | 5,391 | 9,334 | 2,61 % |
| Bromdichlormethan | µg/L | 42 | 15,419 | 2,352 | 2,352 | 15,26 % | 15,26 % | 11,021 | 20,540 | 2,94 % |
| Dibromchlormethan | µg/L | 42 | 3,966 | 0,638 | 0,638 | 16,09 % | 16,09 % | 2,776 | 5,363 | 3,10 % |
| Tribrommethan | µg/L | 42 | 4,464 | 0,740 | 0,740 | 16,58 % | 16,58 % | 3,087 | 6,088 | 3,20 % |
| Benzol | µg/L | 41 | 8,443 | 1,213 | 1,213 | 14,37 % | 14,37 % | 6,167 | 11,069 | 2,80 % |
| Vinylchlorid | µg/L | 31 | 8,633 | 2,158 | 3,135 | 25,00 % | 36,31 % | 4,733 | 13,641 | 8,15 % |

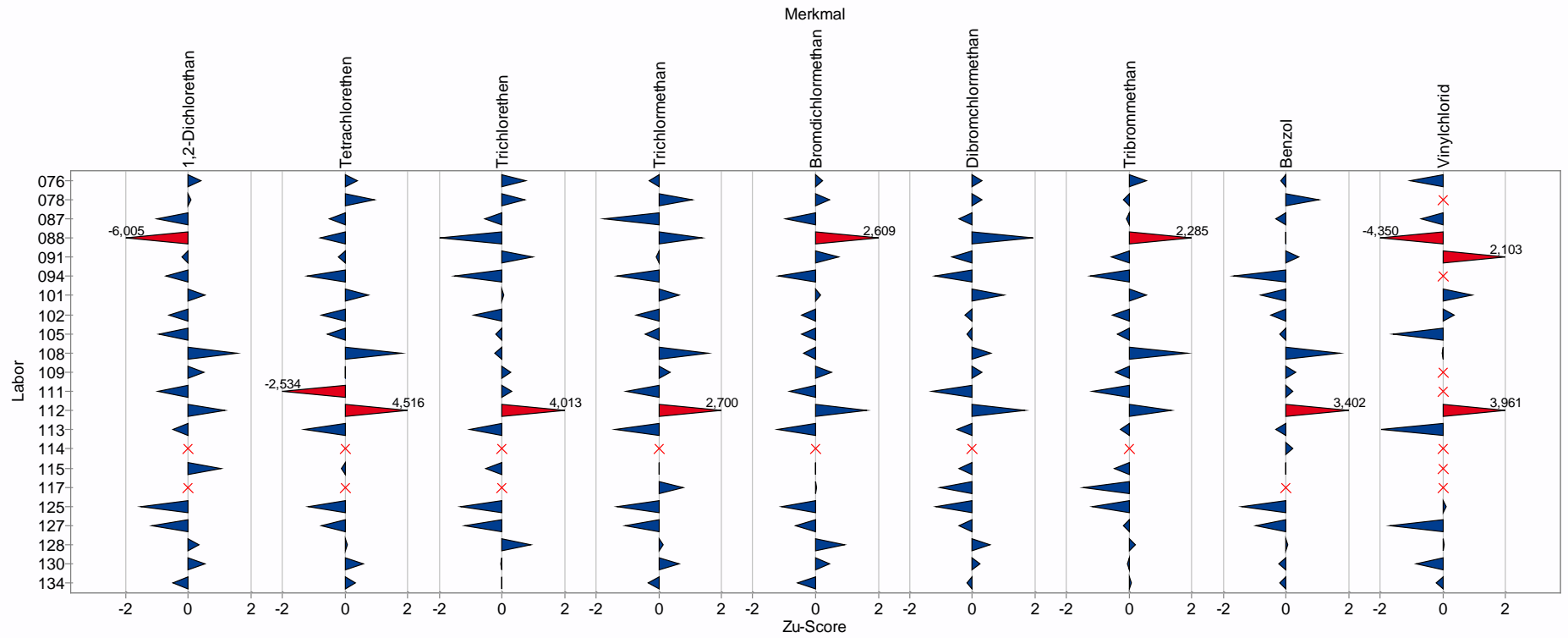
Übersicht z_U-Scores

Graphik 5a: z_U-scores Probe5, Teil 1



PROLab

Graphik 5b: z_U-scores Probe5, Teil 2



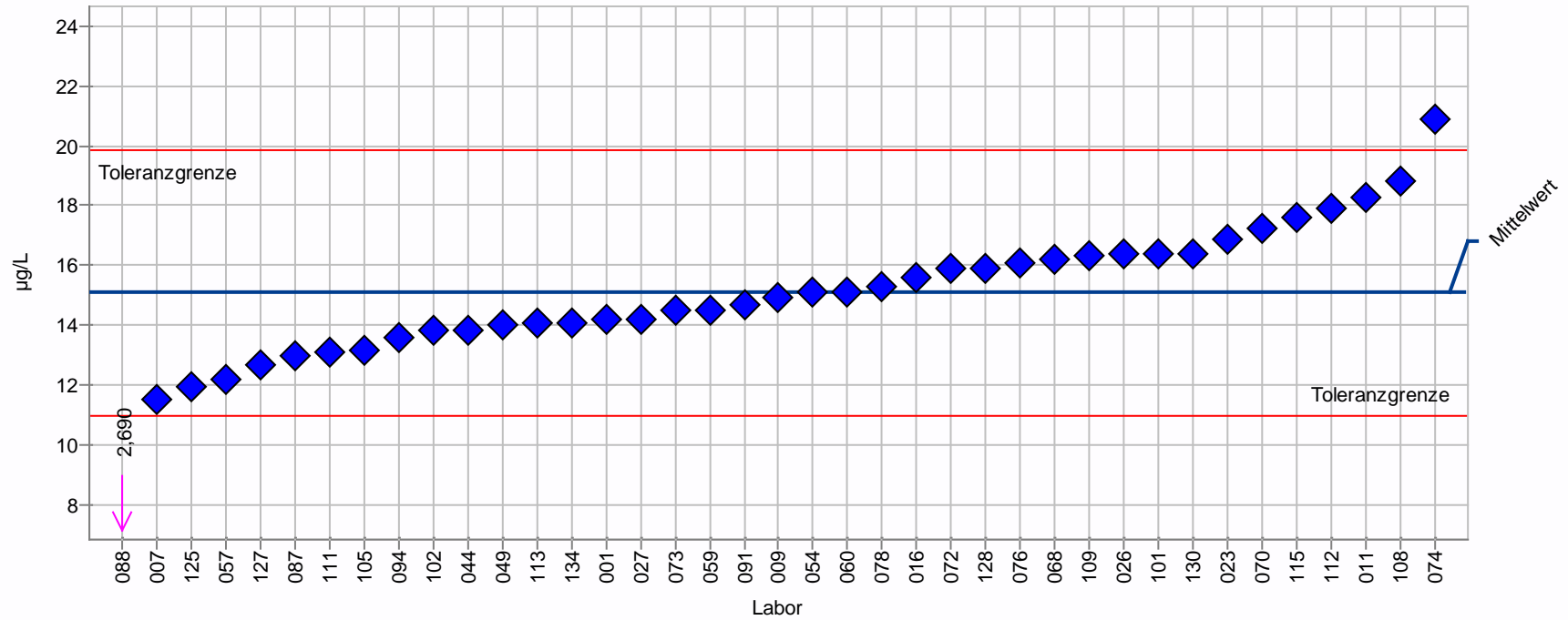
PROLab

Einzeldarstellung der Parameter

Grafik und Tabelle

Abbildung 37: Mittelwerte + Stdabw. für Niveau 5, 1,2-Dichlorethan

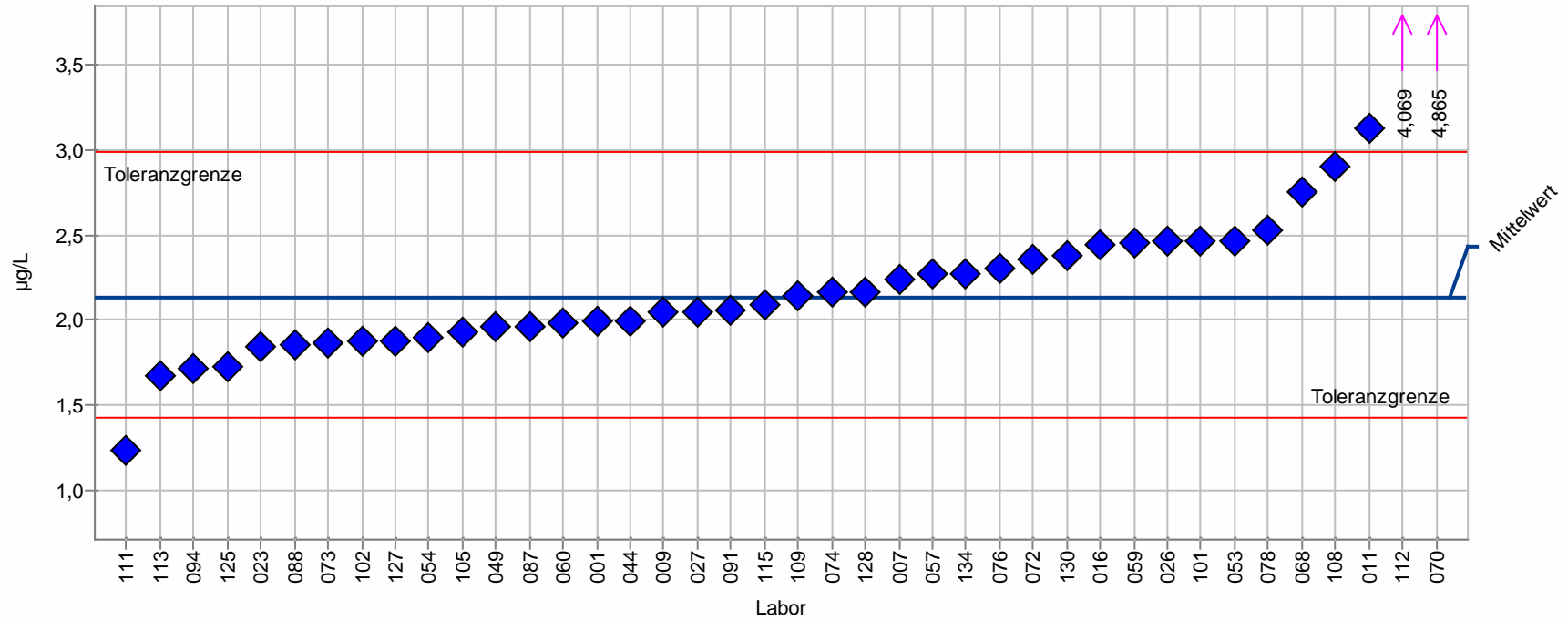
Probe: Niveau 5 Sollwert: 15,097 µg/L (empirischer Wert)
 Merkmal: 1,2-Dichlorethan Rel. Soll-Stdabw.: 14,60% (Limited)
 Anzahl Labore in Berechnung: 39 Toleranzbereich: 10,965 - 19,879 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 38: Mittelwerte + Stdabw. für Niveau 5, Tetrachlorethen

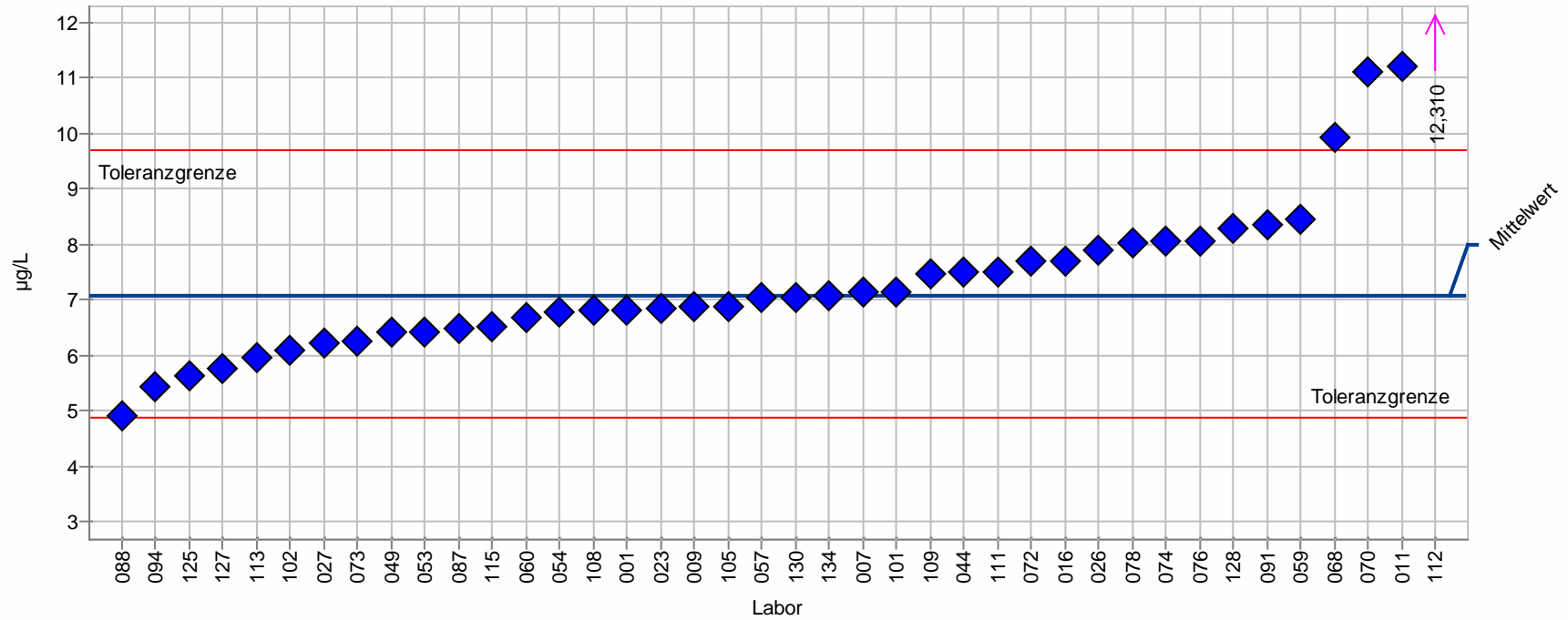
Probe: Niveau 5 Sollwert: 2,136 µg/L (empirischer Wert)
 Merkmal: Tetrachlorethen Rel. Soll-Stdabw.: 18,09% (Limited)
 Anzahl Labore in Berechnung: 40 Toleranzbereich: 1,421 - 2,992 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 39: Mittelwerte + Stdabw. für Niveau 5, Trichlorethen

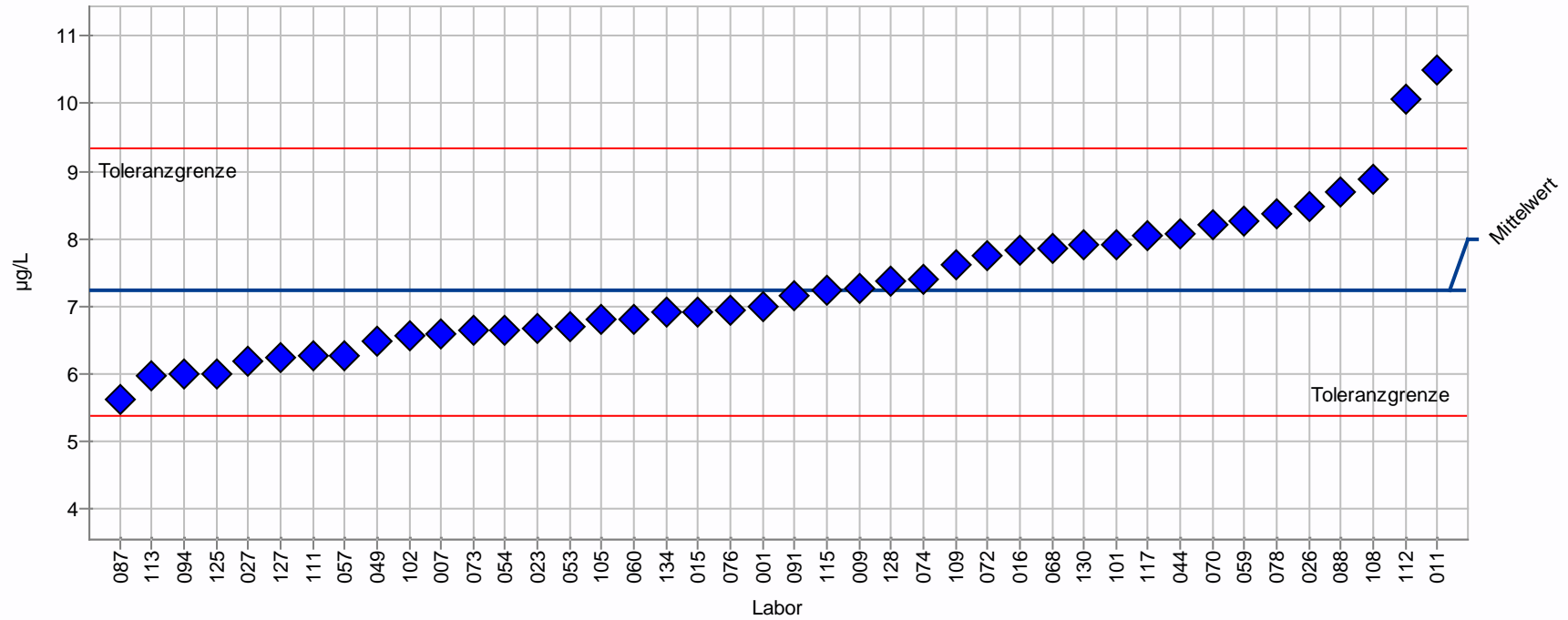
Probe: Niveau 5 Sollwert: 7,088 µg/L (empirischer Wert)
 Merkmal: Trichlorethen Rel. Soll-Stdabw.: 16,71% (Limited)
 Anzahl Labore in Berechnung: 40 Toleranzbereich: 4,886 - 9,691 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 40: Mittelwerte + Stdabw. für Niveau 5, Trichlormethan

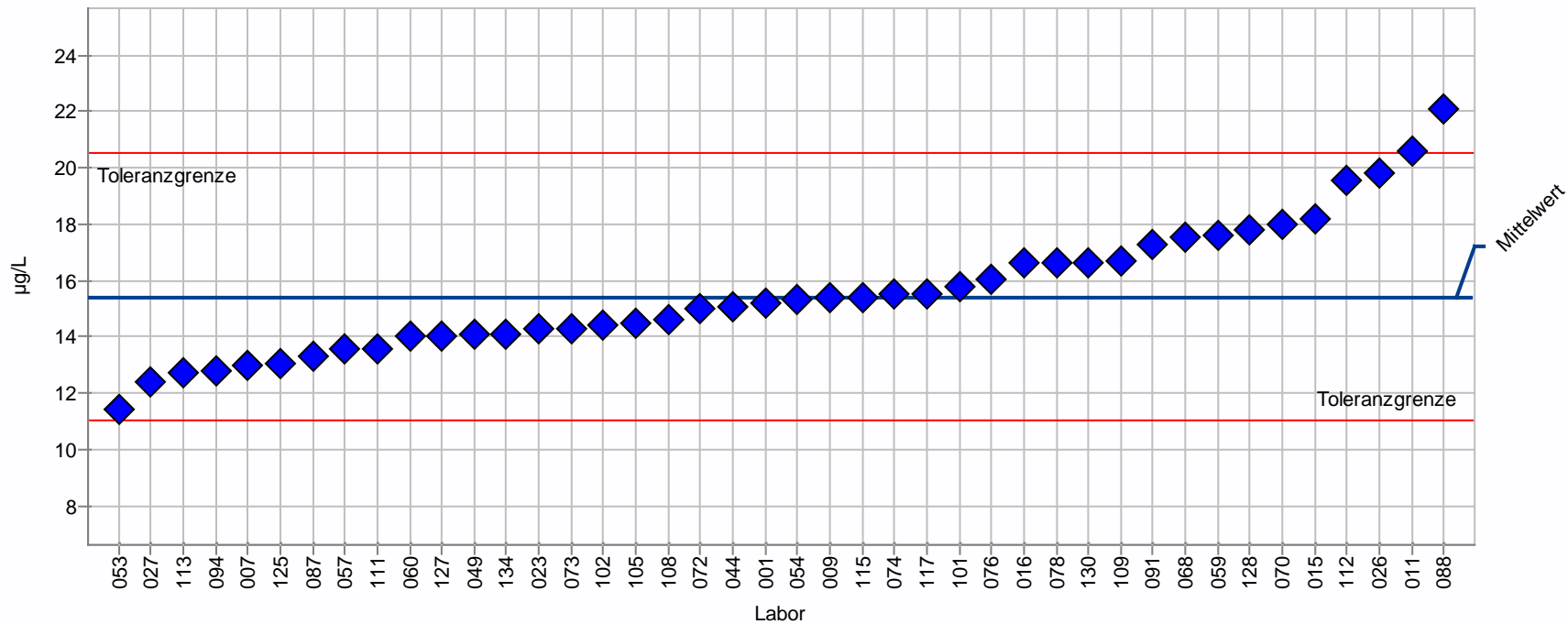
Probe: Niveau 5 Sollwert: 7,230 µg/L (empirischer Wert)
 Merkmal: Trichlormethan Rel. Soll-Stdabw.: 13,51% (Limited)
 Anzahl Labore in Berechnung: 42 Toleranzbereich: 5,391 - 9,334 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 41: Mittelwerte + Stdabw. für Niveau 5, Bromdichlormethan

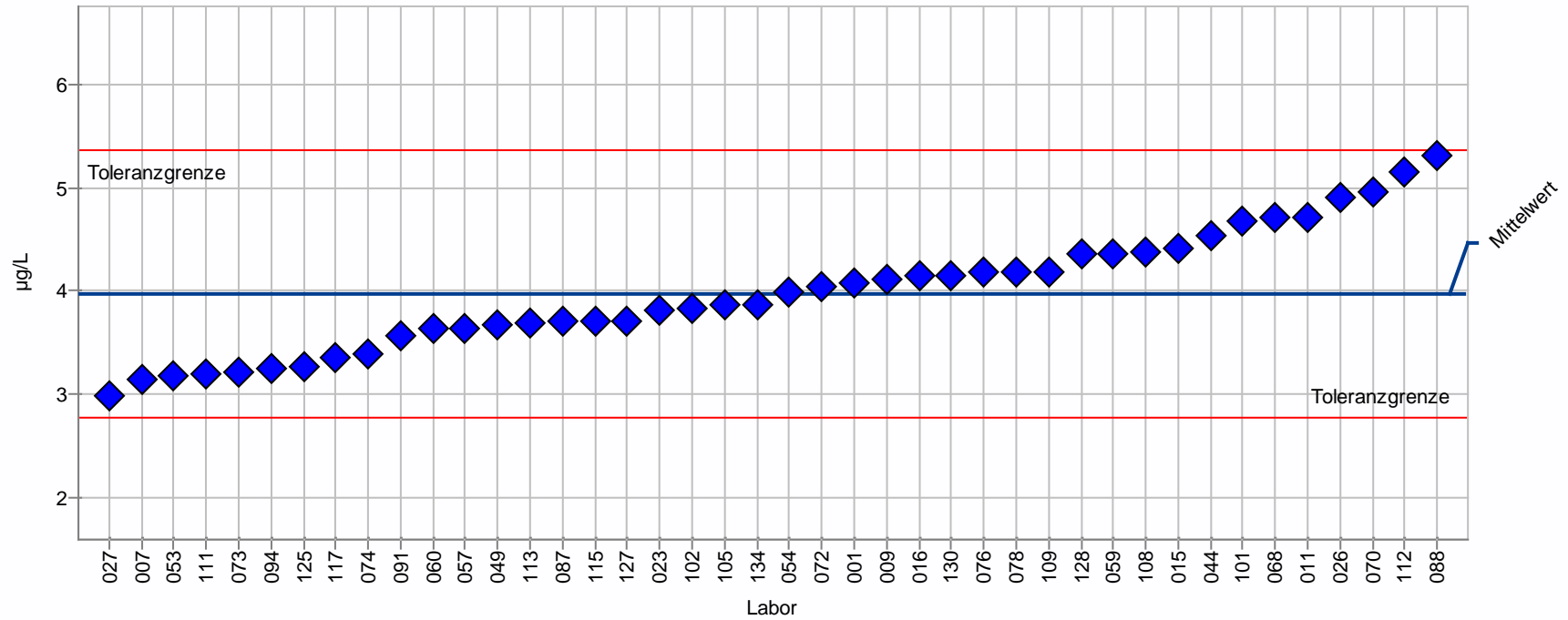
Probe: Niveau 5
 Merkmal: Bromdichlormethan
 Anzahl Labore in Berechnung: 42
 Sollwert: 15,419 µg/L (empirischer Wert)
 Rel. Soll-Stdabw.: 15,26% (Limited)
 Toleranzbereich: 11,021 - 20,540 µg/L ($|Z\text{-Score}| \leq 2,000$)



PROLab

Abbildung 42: Mittelwerte + Stdabw. für Niveau 5, Dibromchlormethan

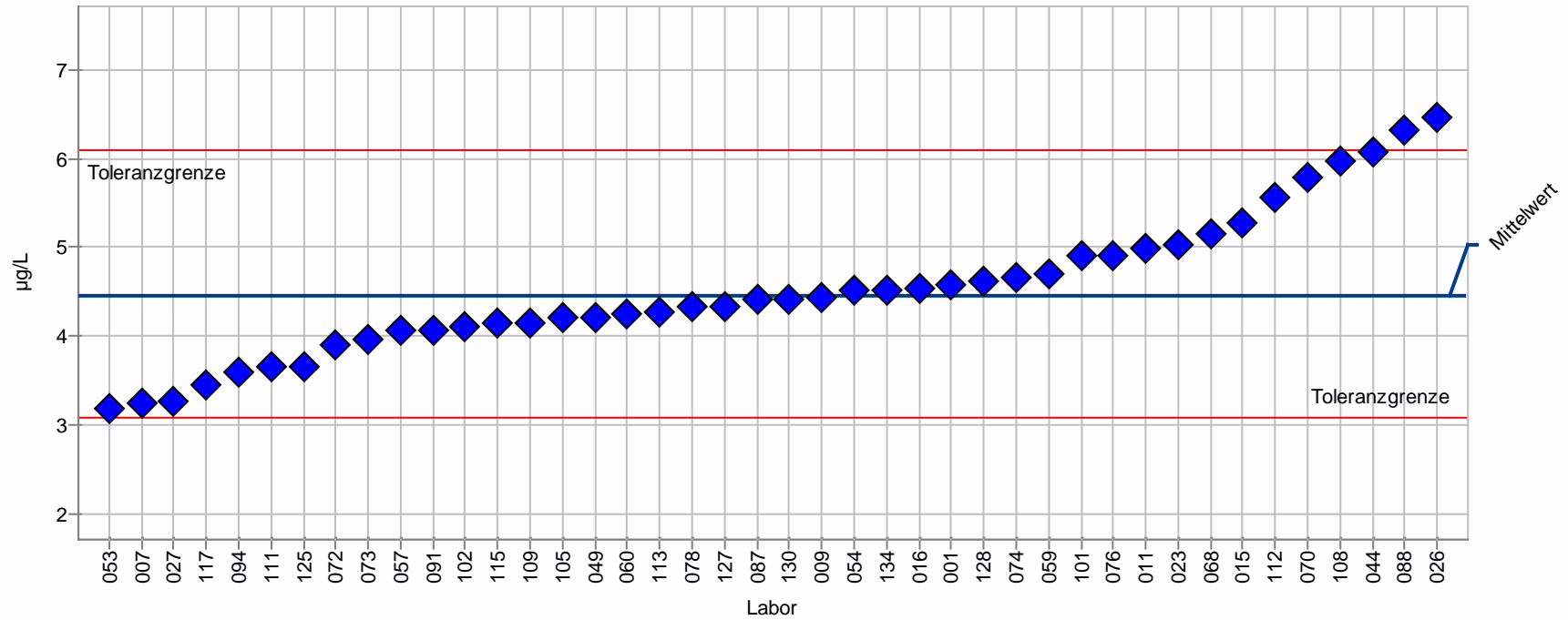
Probe: Niveau 5 Sollwert: 3,966 µg/L (empirischer Wert)
 Merkmal: Dibromchlormethan Rel. Soll-Stdabw.: 16,09% (Limited)
 Anzahl Labore in Berechnung: 42 Toleranzbereich: 2,776 - 5,363 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 43: Mittelwerte + Stdabw. für Niveau 5, Tribrommethan

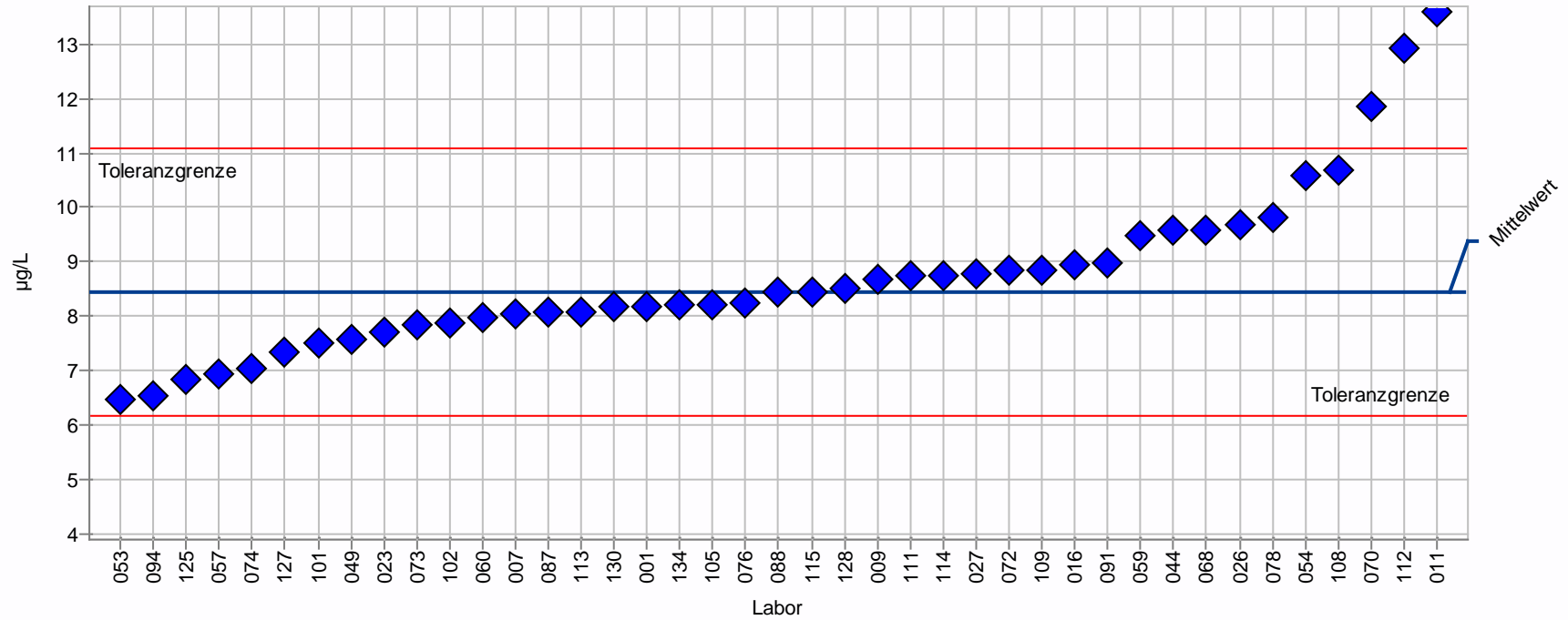
Probe: Niveau 5 Sollwert: 4,464 µg/L (empirischer Wert)
 Merkmal: Tribrommethan Rel. Soll-Stdabw.: 16,58% (Limited)
 Anzahl Labore in Berechnung: 42 Toleranzbereich: 3,087 - 6,088 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 44: Mittelwerte + Stdabw. für Niveau 5, Benzol

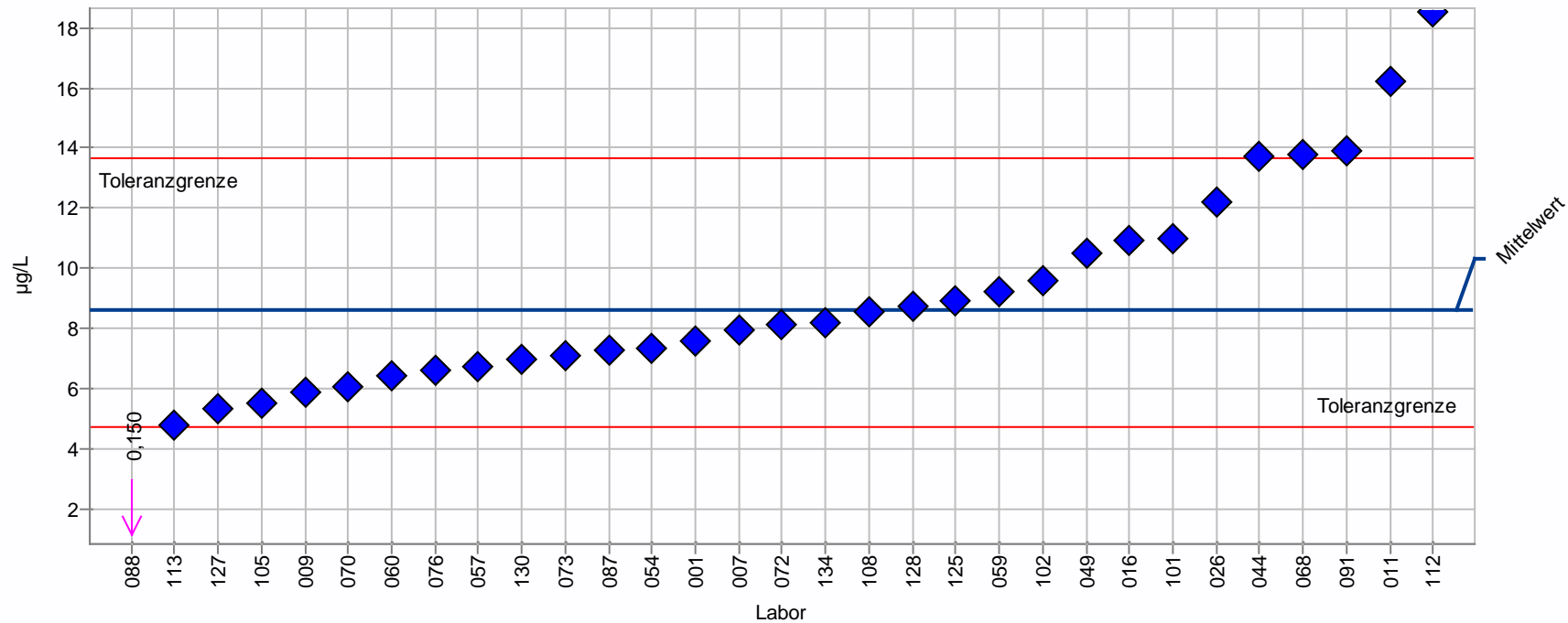
Probe: Niveau 5 Sollwert: 8,443 µg/L (empirischer Wert)
 Merkmal: Benzol Rel. Soll-Stdabw.: 14,37% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 6,167 - 11,069 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 45: Mittelwerte + Stdabw. für Niveau 5, Vinylchlorid

Probe: Niveau 5 Sollwert: 8,633 µg/L (empirischer Wert)
 Merkmal: Vinylchlorid Rel. Soll-Stdabw.: 25,00% (Limited)
 Anzahl Labore in Berechnung: 31 Toleranzbereich: 4,733 - 13,641 µg/L (|Zu-Score| <= 2,000)



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 5 **Sollwert:** 15,097 µg/L (empirischer Wert)
Merkmal: 1,2-Dichlorethan **Rel. Soll-Stdabw.:** 14,60% (Limited)
Anzahl Labore in Berechnung: 39 **Toleranzbereich:** 10,965 - 19,879 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 14,200 | | -0,434 | 14,200 |
| 007 | 11,500 | | -1,741 | 11,500 |
| 009 | 14,900 | | -0,096 | 14,900 |
| 011 | 18,300 | | 1,340 | 18,300 |
| 016 | 15,600 | | 0,210 | 15,600 |
| 023 | 16,900 | | 0,754 | 16,900 |
| 026 | 16,400 | | 0,545 | 16,400 |
| 027 | 14,200 | | -0,434 | 14,200 |
| 044 | 13,845 | | -0,606 | 13,845 |
| 049 | 14,000 | | -0,531 | 14,000 |
| 053 | | | | |
| 054 | 15,100 | | 0,001 | 15,100 |
| 057 | 12,200 | | -1,402 | 12,200 |
| 059 | 14,500 | | -0,289 | 14,500 |
| 060 | 15,100 | | 0,001 | 15,100 |
| 068 | 16,200 | | 0,461 | 16,200 |
| 070 | 17,207 | | 0,882 | 17,207 |
| 072 | 15,900 | | 0,336 | 15,900 |
| 073 | 14,490 | | -0,294 | 14,490 |
| 074 | 20,900 | | 2,427 | 20,900 |
| 076 | 16,080 | | 0,411 | 16,080 |
| 078 | 15,300 | | 0,085 | 15,300 |
| 087 | 13,000 | | -1,015 | 13,000 |
| 088 | 2,690 | | -6,005 | 2,690 |
| 091 | 14,700 | | -0,192 | 14,700 |
| 094 | 13,600 | | -0,725 | 13,600 |
| 101 | 16,400 | | 0,545 | 16,400 |
| 102 | 13,800 | | -0,628 | 13,800 |
| 105 | 13,183 | | -0,927 | 13,183 |
| 108 | 18,800 | | 1,549 | 18,800 |
| 109 | 16,300 | | 0,503 | 16,300 |
| 111 | 13,100 | | -0,967 | 13,100 |
| 112 | 17,920 | | 1,181 | 17,920 |
| 113 | 14,065 | | -0,500 | 14,065 |
| 115 | 17,600 | | 1,047 | 17,600 |
| 125 | 11,940 | | -1,528 | 11,940 |
| 127 | 12,700 | | -1,160 | 12,700 |
| 128 | 15,900 | | 0,336 | 15,900 |
| 130 | 16,400 | | 0,545 | 16,400 |
| 134 | 14,070 | | -0,497 | 14,070 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 5 Sollwert: 2,136 µg/L (empirischer Wert)
 Merkmal: Tetrachlorethen Rel. Soll-Stdabw.: 18,09% (Limited)
 Anzahl Labore in Berechnung: 40 Toleranzbereich: 1,421 - 2,992 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 1,990 | | -0,407 | 1,990 |
| 007 | 2,240 | | 0,244 | 2,240 |
| 009 | 2,050 | | -0,240 | 2,050 |
| 011 | 3,130 | | 2,323 | 3,130 |
| 016 | 2,440 | | 0,711 | 2,440 |
| 023 | 1,840 | | -0,827 | 1,840 |
| 026 | 2,460 | | 0,758 | 2,460 |
| 027 | 2,050 | | -0,240 | 2,050 |
| 044 | 1,994 | | -0,396 | 1,994 |
| 049 | 1,960 | | -0,491 | 1,960 |
| 053 | 2,470 | | 0,781 | 2,470 |
| 054 | 1,900 | | -0,659 | 1,900 |
| 057 | 2,270 | | 0,314 | 2,270 |
| 059 | 2,450 | | 0,734 | 2,450 |
| 060 | 1,980 | | -0,435 | 1,980 |
| 068 | 2,750 | | 1,435 | 2,750 |
| 070 | 4,865 | | 6,375 | 4,865 |
| 072 | 2,360 | | 0,524 | 2,360 |
| 073 | 1,860 | | -0,771 | 1,860 |
| 074 | 2,160 | | 0,057 | 2,160 |
| 076 | 2,305 | | 0,396 | 2,305 |
| 078 | 2,530 | | 0,921 | 2,530 |
| 087 | 1,960 | | -0,491 | 1,960 |
| 088 | 1,850 | | -0,799 | 1,850 |
| 091 | 2,060 | | -0,212 | 2,060 |
| 094 | 1,710 | | -1,191 | 1,710 |
| 101 | 2,460 | | 0,758 | 2,460 |
| 102 | 1,870 | | -0,743 | 1,870 |
| 105 | 1,931 | | -0,573 | 1,931 |
| 108 | 2,900 | | 1,785 | 2,900 |
| 109 | 2,140 | | 0,010 | 2,140 |
| 111 | 1,230 | | -2,534 | 1,230 |
| 112 | 4,069 | | 4,516 | 4,069 |
| 113 | 1,672 | | -1,297 | 1,672 |
| 115 | 2,090 | | -0,128 | 2,090 |
| 125 | 1,720 | | -1,163 | 1,720 |
| 127 | 1,870 | | -0,743 | 1,870 |
| 128 | 2,160 | | 0,057 | 2,160 |
| 130 | 2,380 | | 0,571 | 2,380 |
| 134 | 2,270 | | 0,314 | 2,270 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 5 **Sollwert:** 7,088 µg/L (empirischer Wert)
Merkmal: Trichlorethen **Rel. Soll-Stdabw.:** 16,71% (Limited)
Anzahl Labore in Berechnung: 40 **Toleranzbereich:** 4,886 - 9,691 µg/L (|Zu-Score| ≤ 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 6,830 | | -0,235 | 6,830 |
| 007 | 7,130 | | 0,032 | 7,130 |
| 009 | 6,880 | | -0,189 | 6,880 |
| 011 | 11,200 | | 3,160 | 11,200 |
| 016 | 7,710 | | 0,478 | 7,710 |
| 023 | 6,860 | | -0,207 | 6,860 |
| 026 | 7,910 | | 0,631 | 7,910 |
| 027 | 6,230 | | -0,780 | 6,230 |
| 044 | 7,495 | | 0,312 | 7,495 |
| 049 | 6,410 | | -0,616 | 6,410 |
| 053 | 6,420 | | -0,607 | 6,420 |
| 054 | 6,770 | | -0,289 | 6,770 |
| 057 | 7,030 | | -0,053 | 7,030 |
| 059 | 8,450 | | 1,046 | 8,450 |
| 060 | 6,680 | | -0,371 | 6,680 |
| 068 | 9,940 | | 2,192 | 9,940 |
| 070 | 11,110 | | 3,091 | 11,110 |
| 072 | 7,690 | | 0,462 | 7,690 |
| 073 | 6,260 | | -0,752 | 6,260 |
| 074 | 8,060 | | 0,747 | 8,060 |
| 076 | 8,060 | | 0,747 | 8,060 |
| 078 | 8,040 | | 0,731 | 8,040 |
| 087 | 6,490 | | -0,543 | 6,490 |
| 088 | 4,910 | | -1,978 | 4,910 |
| 091 | 8,370 | | 0,985 | 8,370 |
| 094 | 5,440 | | -1,497 | 5,440 |
| 101 | 7,160 | | 0,055 | 7,160 |
| 102 | 6,080 | | -0,916 | 6,080 |
| 105 | 6,880 | | -0,189 | 6,880 |
| 108 | 6,820 | | -0,244 | 6,820 |
| 109 | 7,470 | | 0,293 | 7,470 |
| 111 | 7,510 | | 0,324 | 7,510 |
| 112 | 12,310 | | 4,013 | 12,310 |
| 113 | 5,974 | | -1,012 | 5,974 |
| 115 | 6,510 | | -0,525 | 6,510 |
| 125 | 5,630 | | -1,324 | 5,630 |
| 127 | 5,770 | | -1,197 | 5,770 |
| 128 | 8,290 | | 0,923 | 8,290 |
| 130 | 7,060 | | -0,026 | 7,060 |
| 134 | 7,090 | | 0,001 | 7,090 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 5 **Sollwert:** 7,230 µg/L (empirischer Wert)
Merkmal: Trichlormethan **Rel. Soll-Stdabw.:** 13,51% (Limited)
Anzahl Labore in Berechnung: 42 **Toleranzbereich:** 5,391 - 9,334 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 7,010 | | -0,239 | 7,010 |
| 007 | 6,600 | | -0,685 | 6,600 |
| 009 | 7,260 | | 0,029 | 7,260 |
| 011 | 10,500 | | 3,109 | 10,500 |
| 015 | 6,930 | | -0,326 | 6,930 |
| 016 | 7,820 | | 0,561 | 7,820 |
| 023 | 6,670 | | -0,609 | 6,670 |
| 026 | 8,470 | | 1,179 | 8,470 |
| 027 | 6,200 | | -1,120 | 6,200 |
| 044 | 8,073 | | 0,802 | 8,073 |
| 049 | 6,480 | | -0,816 | 6,480 |
| 053 | 6,690 | | -0,587 | 6,690 |
| 054 | 6,660 | | -0,620 | 6,660 |
| 057 | 6,280 | | -1,033 | 6,280 |
| 059 | 8,260 | | 0,979 | 8,260 |
| 060 | 6,820 | | -0,446 | 6,820 |
| 068 | 7,860 | | 0,599 | 7,860 |
| 070 | 8,202 | | 0,924 | 8,202 |
| 072 | 7,750 | | 0,495 | 7,750 |
| 073 | 6,650 | | -0,631 | 6,650 |
| 074 | 7,410 | | 0,171 | 7,410 |
| 076 | 6,955 | | -0,299 | 6,955 |
| 078 | 8,360 | | 1,074 | 8,360 |
| 087 | 5,620 | | -1,751 | 5,620 |
| 088 | 8,690 | | 1,388 | 8,690 |
| 091 | 7,150 | | -0,087 | 7,150 |
| 094 | 6,000 | | -1,338 | 6,000 |
| 101 | 7,910 | | 0,647 | 7,910 |
| 102 | 6,580 | | -0,707 | 6,580 |
| 105 | 6,818 | | -0,448 | 6,818 |
| 108 | 8,880 | | 1,569 | 8,880 |
| 109 | 7,620 | | 0,371 | 7,620 |
| 111 | 6,270 | | -1,044 | 6,270 |
| 112 | 10,070 | | 2,700 | 10,070 |
| 113 | 5,964 | | -1,377 | 5,964 |
| 115 | 7,240 | | 0,010 | 7,240 |
| 117 | 8,060 | | 0,789 | 8,060 |
| 125 | 6,000 | | -1,338 | 6,000 |
| 127 | 6,250 | | -1,066 | 6,250 |
| 128 | 7,370 | | 0,133 | 7,370 |
| 130 | 7,900 | | 0,637 | 7,900 |
| 134 | 6,910 | | -0,348 | 6,910 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 5 **Sollwert:** 15,419 µg/L (empirischer Wert)
Merkmal: Bromdichlormethan **Rel. Soll-Stdabw.:** 15,26% (Limited)
Anzahl Labore in Berechnung: 42 **Toleranzbereich:** 11,021 - 20,540 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 15,200 | | -0,100 | 15,200 |
| 007 | 13,000 | | -1,100 | 13,000 |
| 009 | 15,400 | | -0,009 | 15,400 |
| 011 | 20,600 | | 2,023 | 20,600 |
| 015 | 18,160 | | 1,070 | 18,160 |
| 016 | 16,600 | | 0,461 | 16,600 |
| 023 | 14,300 | | -0,509 | 14,300 |
| 026 | 19,800 | | 1,711 | 19,800 |
| 027 | 12,400 | | -1,373 | 12,400 |
| 044 | 15,082 | | -0,153 | 15,082 |
| 049 | 14,100 | | -0,600 | 14,100 |
| 053 | 11,430 | | -1,814 | 11,430 |
| 054 | 15,300 | | -0,054 | 15,300 |
| 057 | 13,600 | | -0,827 | 13,600 |
| 059 | 17,600 | | 0,852 | 17,600 |
| 060 | 14,000 | | -0,645 | 14,000 |
| 068 | 17,570 | | 0,840 | 17,570 |
| 070 | 17,995 | | 1,006 | 17,995 |
| 072 | 15,000 | | -0,190 | 15,000 |
| 073 | 14,310 | | -0,504 | 14,310 |
| 074 | 15,500 | | 0,032 | 15,500 |
| 076 | 16,015 | | 0,233 | 16,015 |
| 078 | 16,600 | | 0,461 | 16,600 |
| 087 | 13,300 | | -0,964 | 13,300 |
| 088 | 22,100 | | 2,609 | 22,100 |
| 091 | 17,300 | | 0,735 | 17,300 |
| 094 | 12,800 | | -1,191 | 12,800 |
| 101 | 15,800 | | 0,149 | 15,800 |
| 102 | 14,400 | | -0,463 | 14,400 |
| 105 | 14,468 | | -0,432 | 14,468 |
| 108 | 14,600 | | -0,372 | 14,600 |
| 109 | 16,700 | | 0,500 | 16,700 |
| 111 | 13,600 | | -0,827 | 13,600 |
| 112 | 19,580 | | 1,625 | 19,580 |
| 113 | 12,760 | | -1,209 | 12,760 |
| 115 | 15,400 | | -0,009 | 15,400 |
| 117 | 15,500 | | 0,032 | 15,500 |
| 125 | 13,030 | | -1,086 | 13,030 |
| 127 | 14,000 | | -0,645 | 14,000 |
| 128 | 17,800 | | 0,930 | 17,800 |
| 130 | 16,600 | | 0,461 | 16,600 |
| 134 | 14,120 | | -0,591 | 14,120 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 5 **Sollwert:** 3,966 µg/L (empirischer Wert)
Merkmal: Dibromchlormethan **Rel. Soll-Stdabw.:** 16,09% (Limited)
Anzahl Labore in Berechnung: 42 **Toleranzbereich:** 2,776 - 5,363 µg/L ($|\text{Zu-Score}| \leq 2,000$)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 4,070 | | 0,149 | 4,070 |
| 007 | 3,140 | | -1,389 | 3,140 |
| 009 | 4,110 | | 0,206 | 4,110 |
| 011 | 4,720 | | 1,080 | 4,720 |
| 015 | 4,420 | | 0,650 | 4,420 |
| 016 | 4,140 | | 0,249 | 4,140 |
| 023 | 3,820 | | -0,245 | 3,820 |
| 026 | 4,900 | | 1,337 | 4,900 |
| 027 | 2,990 | | -1,641 | 2,990 |
| 044 | 4,534 | | 0,813 | 4,534 |
| 049 | 3,670 | | -0,498 | 3,670 |
| 053 | 3,180 | | -1,321 | 3,180 |
| 054 | 3,990 | | 0,035 | 3,990 |
| 057 | 3,640 | | -0,548 | 3,640 |
| 059 | 4,360 | | 0,564 | 4,360 |
| 060 | 3,630 | | -0,565 | 3,630 |
| 068 | 4,710 | | 1,065 | 4,710 |
| 070 | 4,958 | | 1,420 | 4,958 |
| 072 | 4,040 | | 0,106 | 4,040 |
| 073 | 3,210 | | -1,271 | 3,210 |
| 074 | 3,390 | | -0,968 | 3,390 |
| 076 | 4,185 | | 0,314 | 4,185 |
| 078 | 4,190 | | 0,321 | 4,190 |
| 087 | 3,710 | | -0,430 | 3,710 |
| 088 | 5,310 | | 1,924 | 5,310 |
| 091 | 3,570 | | -0,666 | 3,570 |
| 094 | 3,250 | | -1,204 | 3,250 |
| 101 | 4,680 | | 1,022 | 4,680 |
| 102 | 3,830 | | -0,228 | 3,830 |
| 105 | 3,861 | | -0,176 | 3,861 |
| 108 | 4,370 | | 0,579 | 4,370 |
| 109 | 4,190 | | 0,321 | 4,190 |
| 111 | 3,200 | | -1,288 | 3,200 |
| 112 | 5,147 | | 1,691 | 5,147 |
| 113 | 3,679 | | -0,482 | 3,679 |
| 115 | 3,710 | | -0,430 | 3,710 |
| 117 | 3,350 | | -1,036 | 3,350 |
| 125 | 3,270 | | -1,170 | 3,270 |
| 127 | 3,710 | | -0,430 | 3,710 |
| 128 | 4,350 | | 0,550 | 4,350 |
| 130 | 4,140 | | 0,249 | 4,140 |
| 134 | 3,870 | | -0,161 | 3,870 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 5 **Sollwert:** 4,464 µg/L (empirischer Wert)
Merkmal: Tribrommethan **Rel. Soll-Stdabw.:** 16,58% (Limited)
Anzahl Labore in Berechnung: 42 **Toleranzbereich:** 3,087 - 6,088 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 4,570 | | 0,131 | 4,570 |
| 007 | 3,250 | | -1,763 | 3,250 |
| 009 | 4,430 | | -0,049 | 4,430 |
| 011 | 4,990 | | 0,648 | 4,990 |
| 015 | 5,280 | | 1,005 | 5,280 |
| 016 | 4,530 | | 0,082 | 4,530 |
| 023 | 5,030 | | 0,697 | 5,030 |
| 026 | 6,470 | | 2,470 | 6,470 |
| 027 | 3,260 | | -1,748 | 3,260 |
| 044 | 6,075 | | 1,983 | 6,075 |
| 049 | 4,210 | | -0,368 | 4,210 |
| 053 | 3,180 | | -1,865 | 3,180 |
| 054 | 4,510 | | 0,057 | 4,510 |
| 057 | 4,060 | | -0,586 | 4,060 |
| 059 | 4,710 | | 0,303 | 4,710 |
| 060 | 4,250 | | -0,310 | 4,250 |
| 068 | 5,160 | | 0,857 | 5,160 |
| 070 | 5,796 | | 1,640 | 5,796 |
| 072 | 3,900 | | -0,819 | 3,900 |
| 073 | 3,960 | | -0,732 | 3,960 |
| 074 | 4,670 | | 0,254 | 4,670 |
| 076 | 4,910 | | 0,549 | 4,910 |
| 078 | 4,340 | | -0,180 | 4,340 |
| 087 | 4,410 | | -0,078 | 4,410 |
| 088 | 6,320 | | 2,285 | 6,320 |
| 091 | 4,070 | | -0,572 | 4,070 |
| 094 | 3,600 | | -1,254 | 3,600 |
| 101 | 4,900 | | 0,537 | 4,900 |
| 102 | 4,100 | | -0,528 | 4,100 |
| 105 | 4,209 | | -0,370 | 4,209 |
| 108 | 5,970 | | 1,854 | 5,970 |
| 109 | 4,150 | | -0,456 | 4,150 |
| 111 | 3,650 | | -1,182 | 3,650 |
| 112 | 5,553 | | 1,341 | 5,553 |
| 113 | 4,261 | | -0,294 | 4,261 |
| 115 | 4,140 | | -0,470 | 4,140 |
| 117 | 3,450 | | -1,472 | 3,450 |
| 125 | 3,650 | | -1,182 | 3,650 |
| 127 | 4,340 | | -0,180 | 4,340 |
| 128 | 4,620 | | 0,192 | 4,620 |
| 130 | 4,420 | | -0,063 | 4,420 |
| 134 | 4,510 | | 0,057 | 4,510 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 5 **Sollwert:** 8,443 µg/L (empirischer Wert)
Merkmal: Benzol **Rel. Soll-Stdabw.:** 14,37% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 6,167 - 11,069 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 8,180 | | -0,231 | 8,180 |
| 007 | 8,050 | | -0,345 | 8,050 |
| 009 | 8,670 | | 0,173 | 8,670 |
| 011 | 13,600 | | 3,927 | 13,600 |
| 016 | 8,950 | | 0,386 | 8,950 |
| 023 | 7,710 | | -0,644 | 7,710 |
| 026 | 9,670 | | 0,935 | 9,670 |
| 027 | 8,790 | | 0,265 | 8,790 |
| 044 | 9,570 | | 0,859 | 9,570 |
| 049 | 7,580 | | -0,758 | 7,580 |
| 053 | 6,470 | | -1,734 | 6,470 |
| 054 | 10,600 | | 1,643 | 10,600 |
| 057 | 6,950 | | -1,312 | 6,950 |
| 059 | 9,480 | | 0,790 | 9,480 |
| 060 | 7,980 | | -0,407 | 7,980 |
| 068 | 9,570 | | 0,859 | 9,570 |
| 070 | 11,860 | | 2,602 | 11,860 |
| 072 | 8,850 | | 0,310 | 8,850 |
| 073 | 7,850 | | -0,521 | 7,850 |
| 074 | 7,030 | | -1,242 | 7,030 |
| 076 | 8,240 | | -0,178 | 8,240 |
| 078 | 9,830 | | 1,056 | 9,830 |
| 087 | 8,060 | | -0,336 | 8,060 |
| 088 | 8,440 | | -0,002 | 8,440 |
| 091 | 8,990 | | 0,417 | 8,990 |
| 094 | 6,530 | | -1,681 | 6,530 |
| 101 | 7,520 | | -0,811 | 7,520 |
| 102 | 7,870 | | -0,503 | 7,870 |
| 105 | 8,221 | | -0,195 | 8,221 |
| 108 | 10,700 | | 1,719 | 10,700 |
| 109 | 8,860 | | 0,318 | 8,860 |
| 111 | 8,730 | | 0,219 | 8,730 |
| 112 | 12,910 | | 3,402 | 12,910 |
| 113 | 8,065 | | -0,332 | 8,065 |
| 114 | 8,730 | | 0,219 | 8,730 |
| 115 | 8,440 | | -0,002 | 8,440 |
| 125 | 6,840 | | -1,409 | 6,840 |
| 127 | 7,330 | | -0,978 | 7,330 |
| 128 | 8,520 | | 0,059 | 8,520 |
| 130 | 8,170 | | -0,240 | 8,170 |
| 134 | 8,200 | | -0,213 | 8,200 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 5 **Sollwert:** 8,633 µg/L (empirischer Wert)
Merkmal: Vinylchlorid **Rel. Soll-Stdabw.:** 25,00% (Limited)
Anzahl Labore in Berechnung: 31 **Toleranzbereich:** 4,733 - 13,641 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 7,610 | | -0,525 | 7,610 |
| 007 | 7,930 | | -0,361 | 7,930 |
| 009 | 5,850 | | -1,427 | 5,850 |
| 011 | 16,200 | | 3,022 | 16,200 |
| 016 | 10,900 | | 0,905 | 10,900 |
| 026 | 12,200 | | 1,425 | 12,200 |
| 044 | 13,723 | | 2,033 | 13,723 |
| 049 | 10,500 | | 0,746 | 10,500 |
| 054 | 7,340 | | -0,663 | 7,340 |
| 057 | 6,740 | | -0,971 | 6,740 |
| 059 | 9,210 | | 0,230 | 9,210 |
| 060 | 6,440 | | -1,125 | 6,440 |
| 068 | 13,760 | | 2,048 | 13,760 |
| 070 | 6,078 | | -1,310 | 6,078 |
| 072 | 8,110 | | -0,268 | 8,110 |
| 073 | 7,100 | | -0,786 | 7,100 |
| 076 | 6,620 | | -1,032 | 6,620 |
| 087 | 7,290 | | -0,689 | 7,290 |
| 088 | 0,150 | | -4,350 | 0,150 |
| 091 | 13,900 | | 2,103 | 13,900 |
| 101 | 11,000 | | 0,945 | 11,000 |
| 102 | 9,570 | | 0,374 | 9,570 |
| 105 | 5,519 | | -1,597 | 5,519 |
| 108 | 8,580 | | -0,027 | 8,580 |
| 112 | 18,550 | | 3,961 | 18,550 |
| 113 | 4,761 | | -1,986 | 4,761 |
| 125 | 8,920 | | 0,115 | 8,920 |
| 127 | 5,350 | | -1,684 | 5,350 |
| 128 | 8,760 | | 0,051 | 8,760 |
| 130 | 6,960 | | -0,858 | 6,960 |
| 134 | 8,200 | | -0,222 | 8,200 |

Probe 6

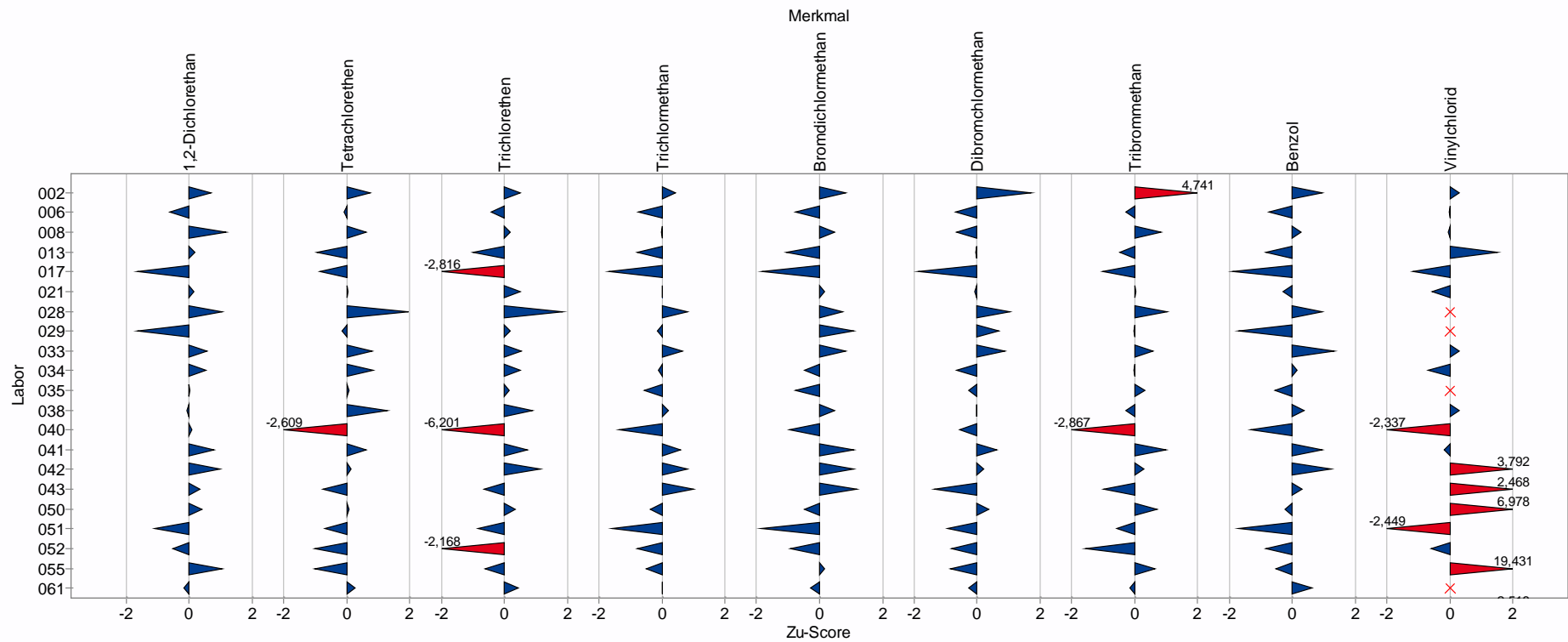
Kennwerte – Probe 6

Tabelle

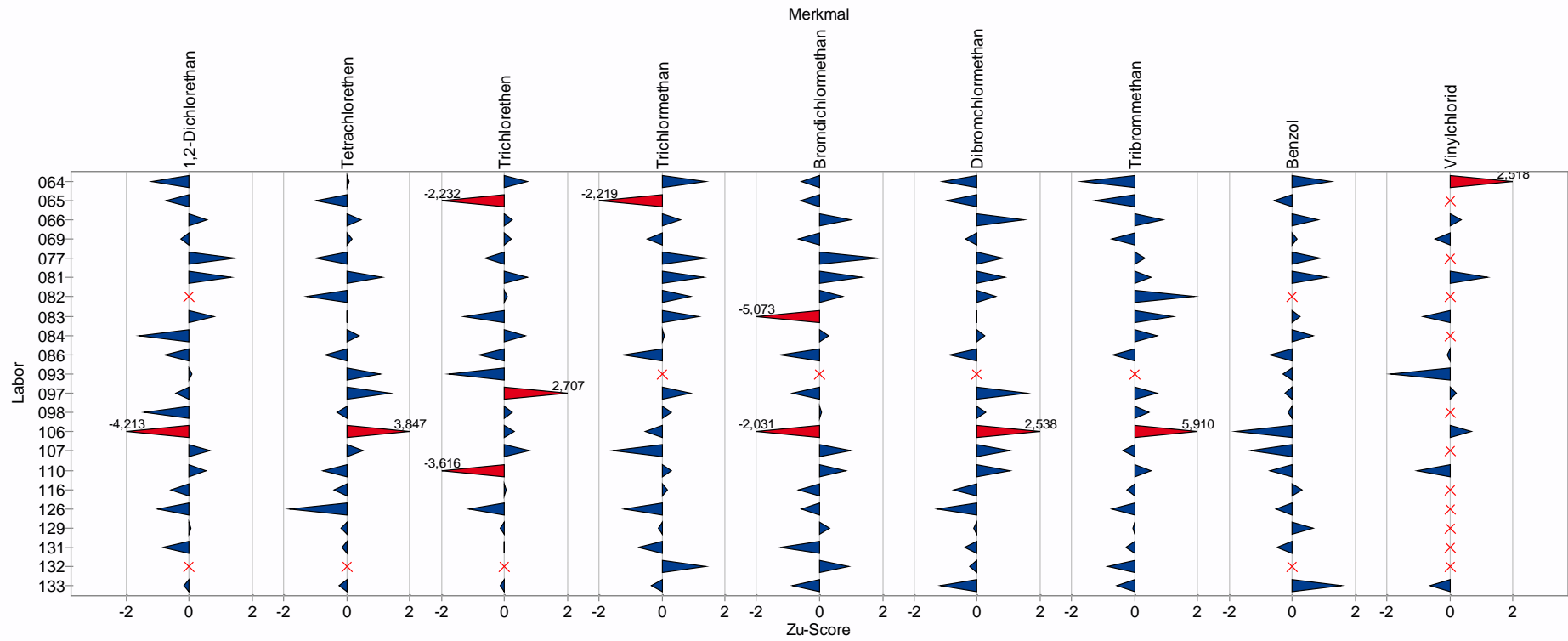
| Probe 6 | Einheit | Anzahl der Labore | Sollwert | Soll-Stdabw. | Vergleich-Stdabw. | Rel. Soll-Stdabw. | Rel. Vergleich-Stdabw. | unt. Toleranzgr. | ob. Toleranzgr. | Messunsicherheit MU |
|-------------------|---------|-------------------|----------|--------------|-------------------|-------------------|------------------------|------------------|-----------------|---------------------|
| 1,2-Dichlorethan | µg/L | 41 | 16,863 | 2,195 | 2,195 | 13,02 % | 13,02 % | 12,722 | 21,579 | 2,54 % |
| Tetrachlorethen | µg/L | 42 | 3,199 | 0,638 | 0,638 | 19,94 % | 19,94 % | 2,027 | 4,629 | 3,85 % |
| Trichlorethen | µg/L | 42 | 9,163 | 1,403 | 1,403 | 15,32 % | 15,32 % | 6,540 | 12,219 | 2,95 % |
| Trichlormethan | µg/L | 42 | 9,585 | 1,148 | 1,148 | 11,98 % | 11,98 % | 7,411 | 12,036 | 2,31 % |
| Bromdichlormethan | µg/L | 42 | 11,820 | 1,116 | 1,116 | 9,44 % | 9,44 % | 9,683 | 14,168 | 1,82 % |
| Dibromchlormethan | µg/L | 42 | 5,009 | 0,571 | 0,571 | 11,40 % | 11,40 % | 3,925 | 6,223 | 2,20 % |
| Tribrommethan | µg/L | 42 | 2,419 | 0,433 | 0,433 | 17,90 % | 17,90 % | 1,618 | 3,377 | 3,45 % |
| Benzol | µg/L | 41 | 10,577 | 1,287 | 1,287 | 12,17 % | 12,17 % | 8,141 | 13,328 | 2,38 % |
| Vinylchlorid | µg/L | 28 | 5,953 | 1,488 | 2,041 | 25,00 % | 34,29 % | 3,263 | 9,406 | 8,10 % |

Übersicht z_U-Scores

Graphik 6a: z_U-scores Probe6, Teil 1



Graphik 6b: zU-scores Probe6, Teil 2



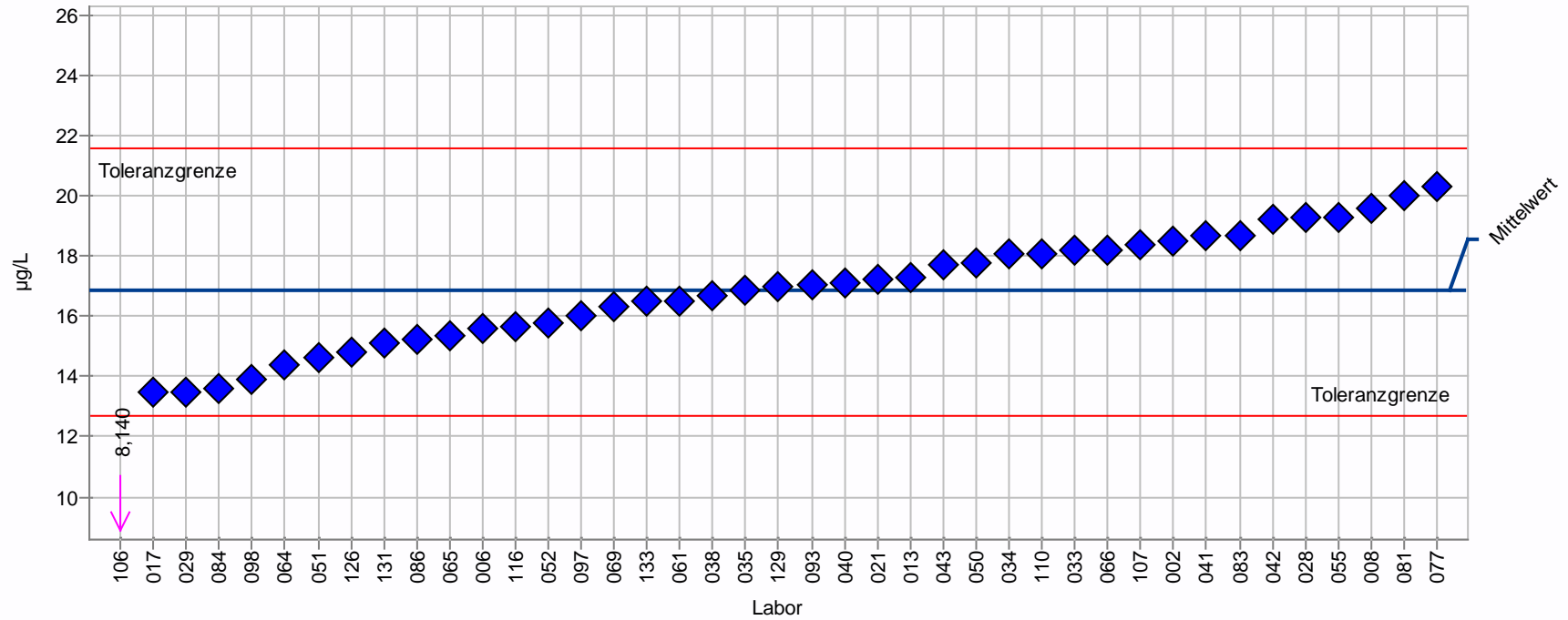
PROLab

Einzeldarstellung der Parameter

Grafik und Tabelle

Abbildung 46: Mittelwerte + Stdabw. für Niveau 6, 1,2-Dichlorethan

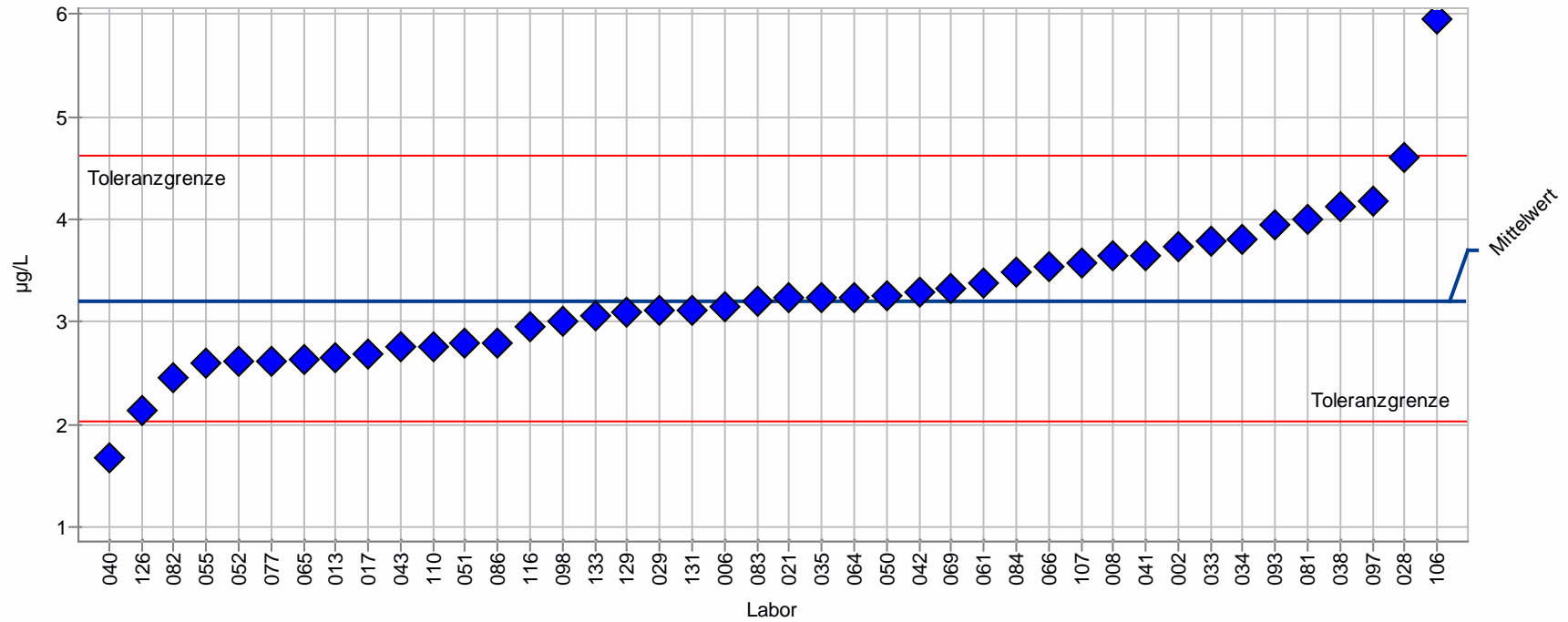
Probe: Niveau 6 Sollwert: 16,863 µg/L (empirischer Wert)
 Merkmal: 1,2-Dichlorethan Rel. Soll-Stdabw.: 13,02% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 12,722 - 21,579 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 47: Mittelwerte + Stdabw. für Niveau 6, Tetrachlorethen

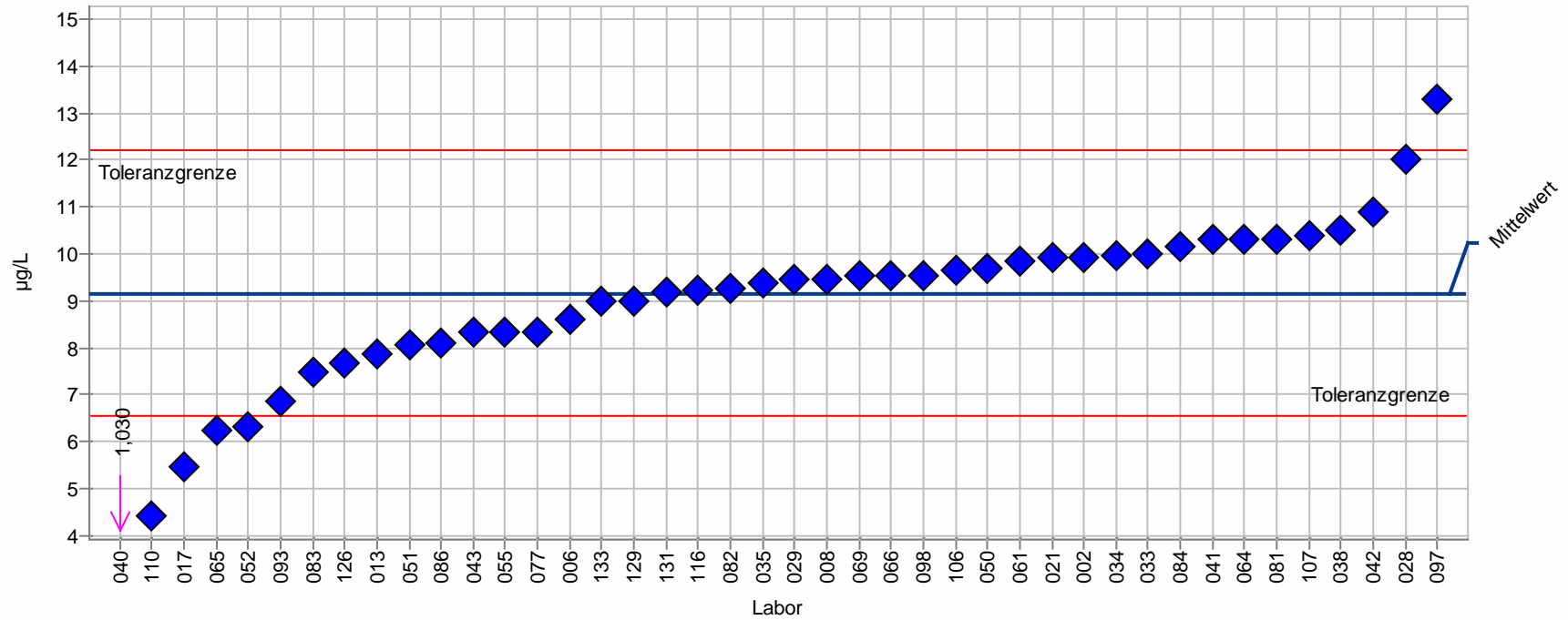
Probe: Niveau 6 Sollwert: 3,199 µg/L (empirischer Wert)
 Merkmal: Tetrachlorethen Rel. Soll-Stdabw.: 19,94% (Limited)
 Anzahl Labore in Berechnung: 42 Toleranzbereich: 2,027 - 4,629 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 48: Mittelwerte + Stdbw. für Niveau 6, Trichlorethen

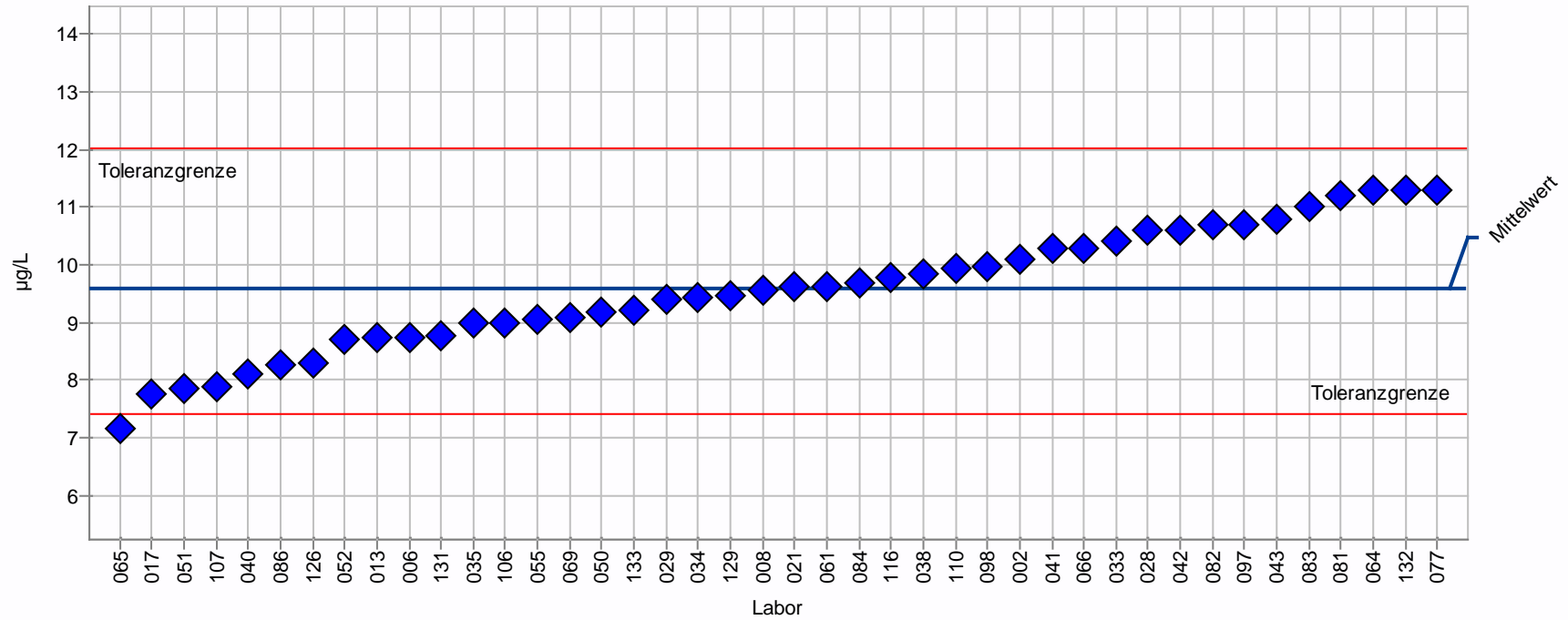
Probe: Niveau 6 Solwert: 9,163 µg/L (empirischer Wert)
 Merkmal: Trichlorethen Rel. Soll-Stdabw.: 15,32% (Limited)
 Anzahl Labore in Berechnung: 42 Toleranzbereich: 6,540 - 12,219 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 49: Mittelwerte + Stdabw. für Niveau 6, Trichlormethan

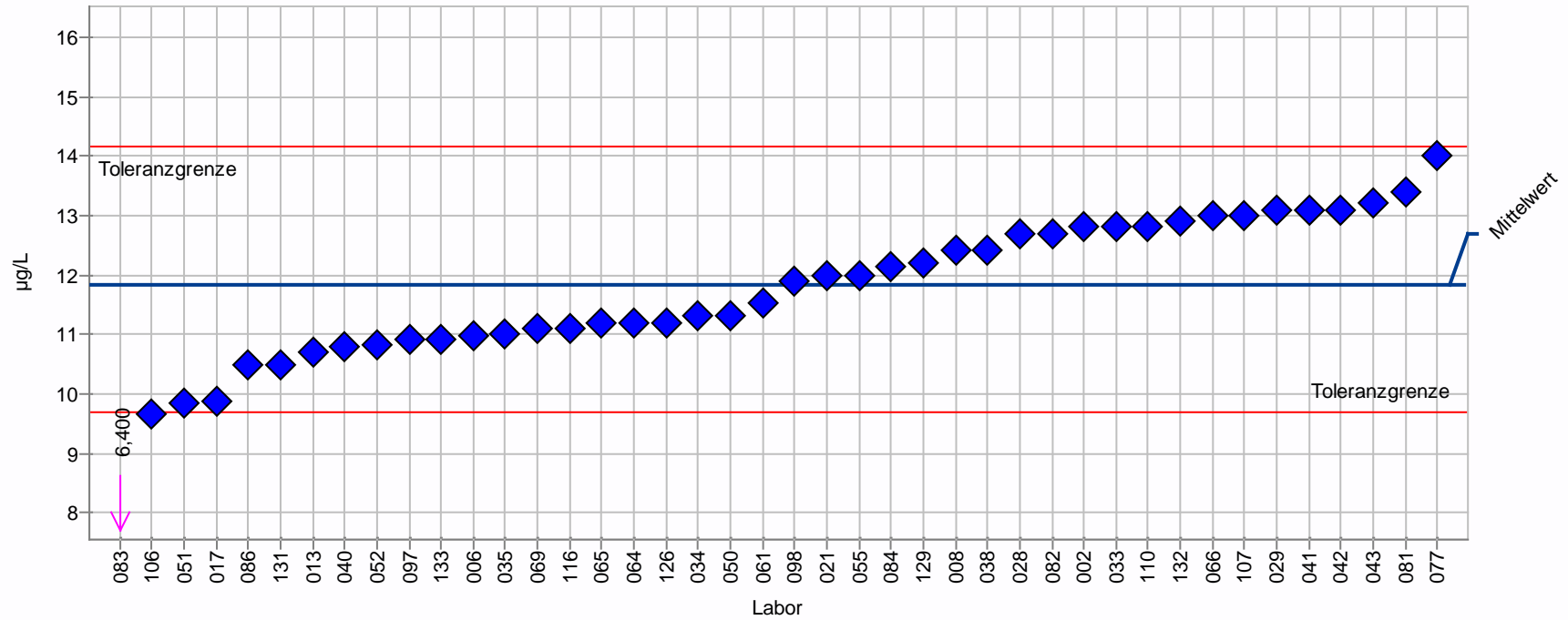
Probe: Niveau 6 Sollwert: 9,585 µg/L (empirischer Wert)
 Merkmal: Trichlormethan Rel. Soll-Stdabw.: 11,98% (Limited)
 Anzahl Labore in Berechnung: 42 Toleranzbereich: 7,411 - 12,036 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 50: Mittelwerte + Stdabw. für Niveau 6, Bromdichlormethan

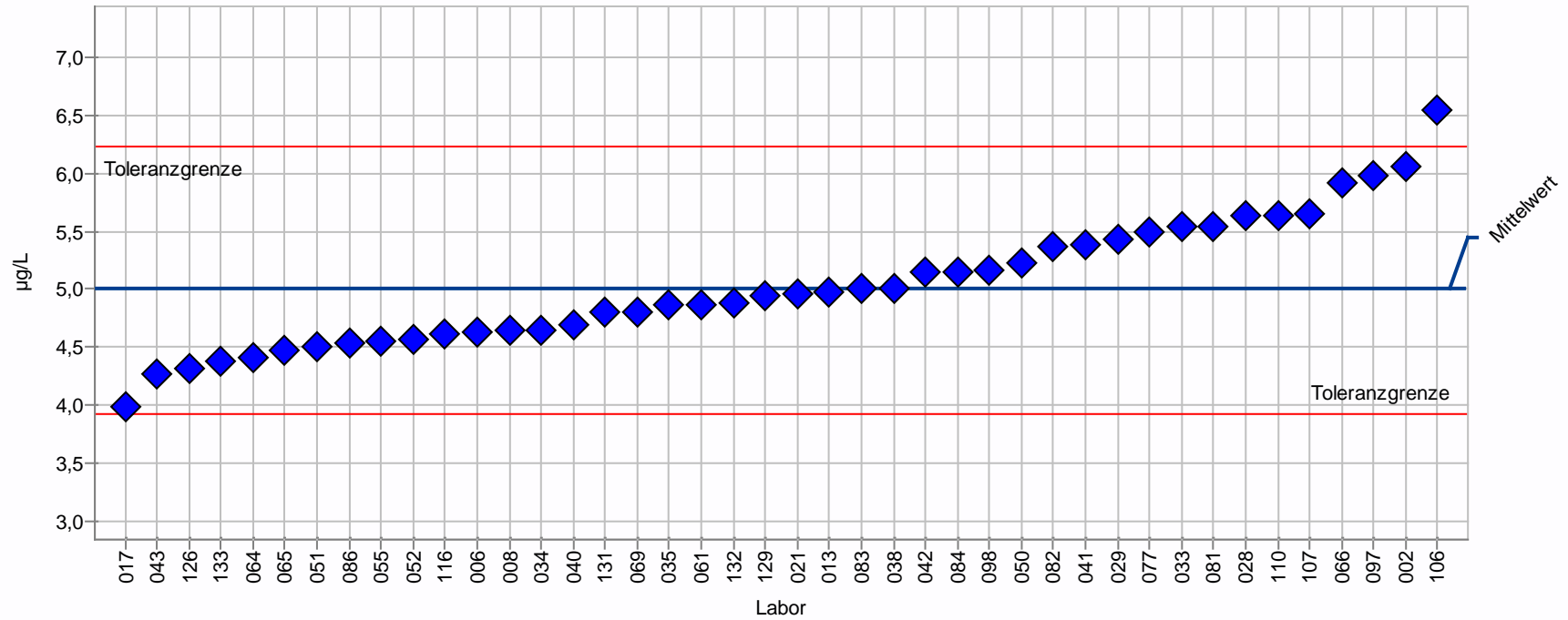
Probe: Niveau 6
 Merkmal: Bromdichlormethan
 Anzahl Labore in Berechnung: 42
 Sollwert: 11,820 µg/L (empirischer Wert)
 Rel. Soll-Stdabw.: 9,44% (Limited)
 Toleranzbereich: 9,683 - 14,168 µg/L ($|Z\text{-Score}| \leq 2,000$)



PROLab

Abbildung 51: Mittelwerte + Stdabw. für Niveau 6, Dibromchlormethan

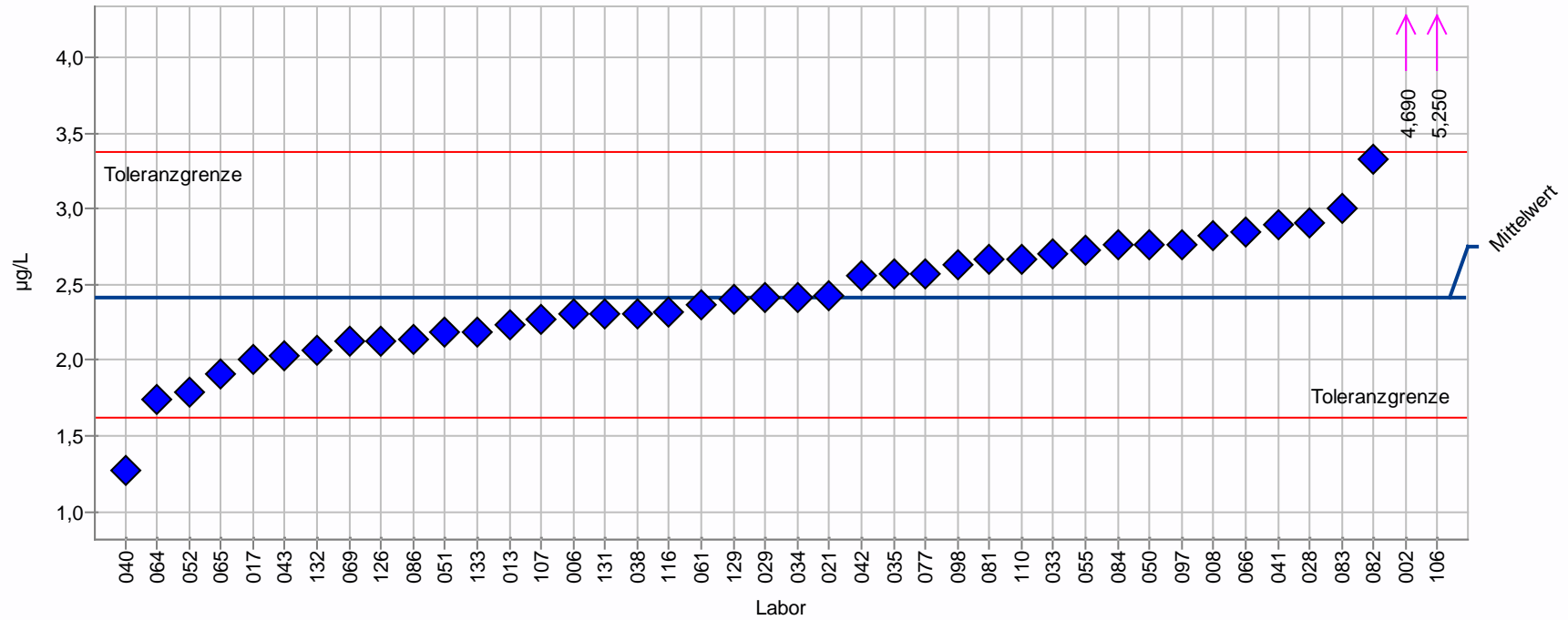
Probe: Niveau 6
 Merkmal: Dibromchlormethan
 Anzahl Labore in Berechnung: 42
 Sollwert: 5,009 µg/L (empirischer Wert)
 Rel. Soll-Stdabw.: 11,40% (Limited)
 Toleranzbereich: 3,925 - 6,223 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 52: Mittelwerte + Stdabw. für Niveau 6, Tribrommethan

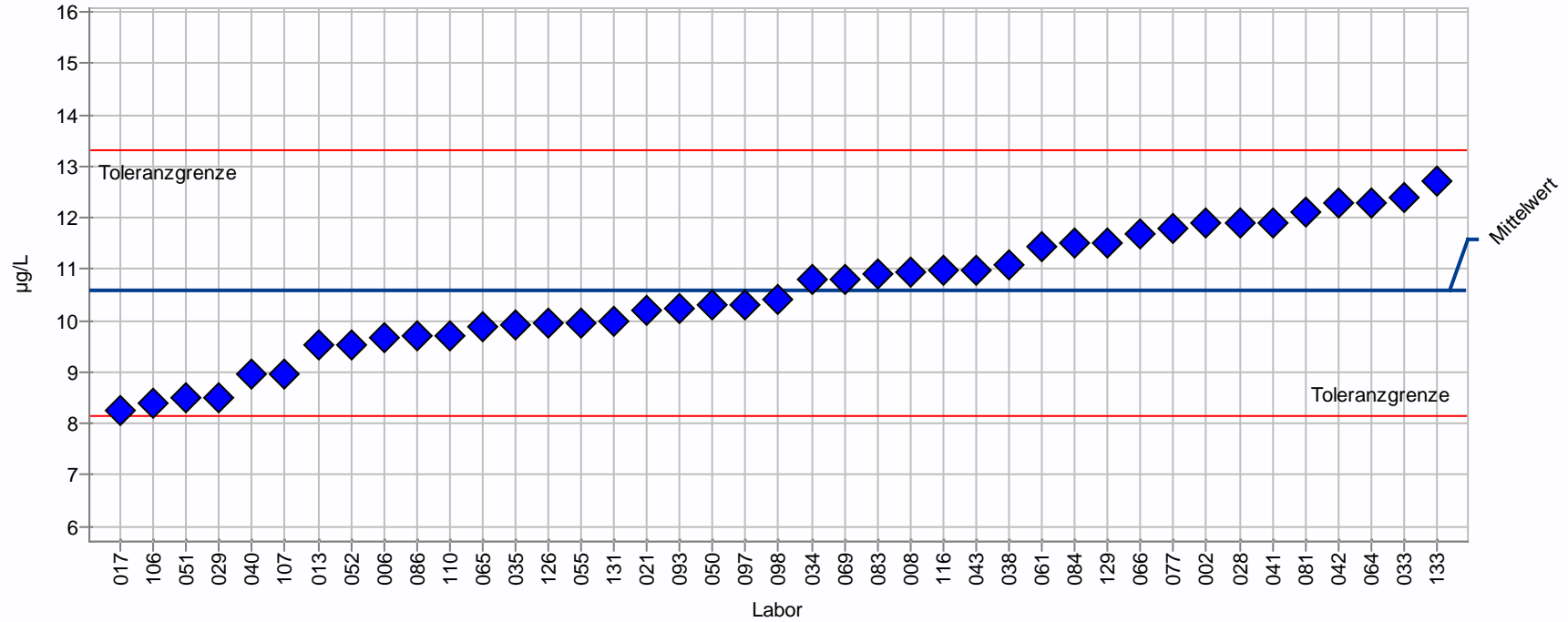
Probe: Niveau 6 Sollwert: 2,419 µg/L (empirischer Wert)
 Merkmal: Tribrommethan Rel. Soll-Stdabw.: 17,90% (Limited)
 Anzahl Labore in Berechnung: 42 Toleranzbereich: 1,618 - 3,377 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 53: Mittelwerte + Stdabw. für Niveau 6, Benzol

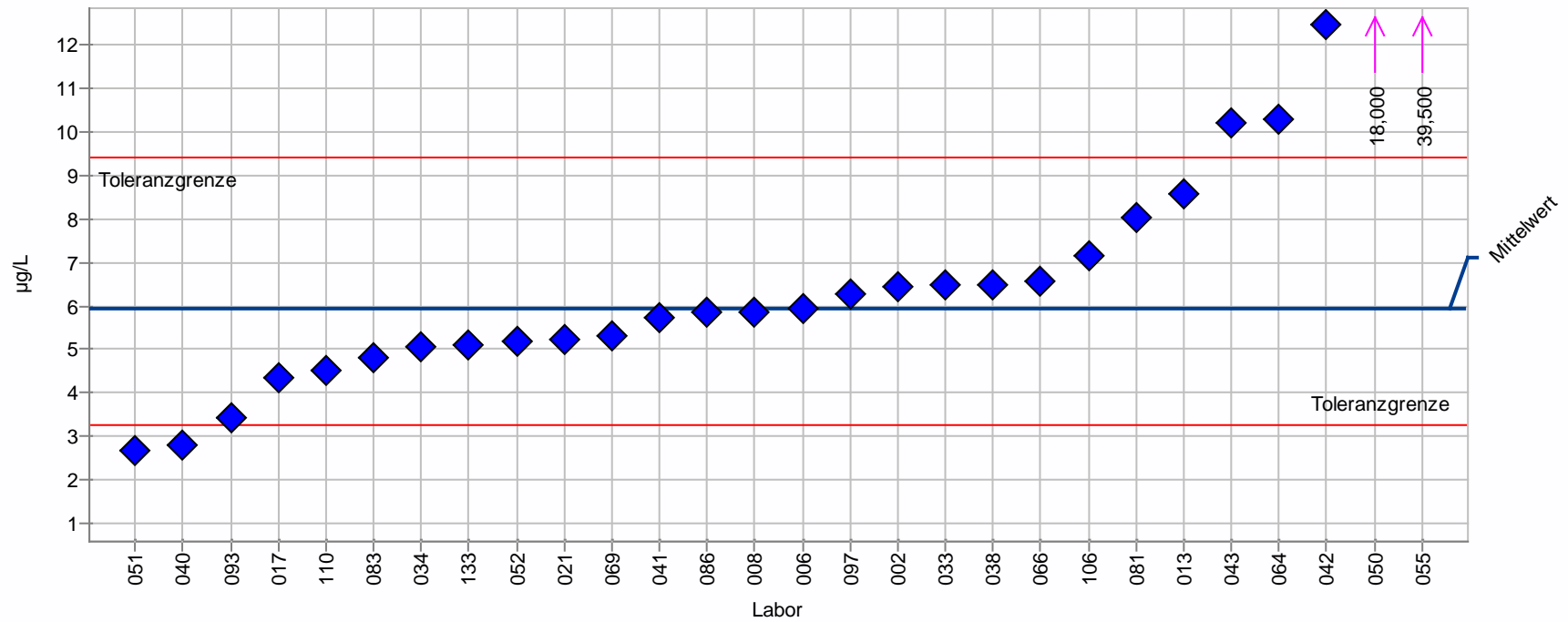
Probe: Niveau 6 Sollwert: 10,577 µg/L (empirischer Wert)
 Merkmal: Benzol Rel. Soll-Stdabw.: 12,17% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 8,141 - 13,328 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 54: Mittelwerte + Stdabw. für Niveau 6, Vinylchlorid

Probe: Niveau 6 Sollwert: 5,953 µg/L (empirischer Wert)
 Merkmal: Vinylchlorid Rel. Soll-Stdabw.: 25,00% (Limited)
 Anzahl Labore in Berechnung: 28 Toleranzbereich: 3,263 - 9,406 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 6 **Sollwert:** 16,863 µg/L (empirischer Wert)
Merkmal: 1,2-Dichlorethan **Rel. Soll-Stdabw.:** 13,02% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 12,722 - 21,579 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 18,500 | | 0,694 | 18,500 |
| 006 | 15,600 | | -0,610 | 15,600 |
| 008 | 19,600 | | 1,161 | 19,600 |
| 013 | 17,300 | | 0,185 | 17,300 |
| 017 | 13,480 | | -1,634 | 13,480 |
| 021 | 17,200 | | 0,143 | 17,200 |
| 028 | 19,300 | | 1,034 | 19,300 |
| 029 | 13,500 | | -1,624 | 13,500 |
| 033 | 18,200 | | 0,567 | 18,200 |
| 034 | 18,100 | | 0,525 | 18,100 |
| 035 | 16,890 | | 0,011 | 16,890 |
| 038 | 16,700 | | -0,079 | 16,700 |
| 040 | 17,100 | | 0,100 | 17,100 |
| 041 | 18,700 | | 0,779 | 18,700 |
| 042 | 19,200 | | 0,991 | 19,200 |
| 043 | 17,695 | | 0,353 | 17,695 |
| 050 | 17,800 | | 0,397 | 17,800 |
| 051 | 14,600 | | -1,093 | 14,600 |
| 052 | 15,800 | | -0,513 | 15,800 |
| 055 | 19,300 | | 1,034 | 19,300 |
| 061 | 16,530 | | -0,161 | 16,530 |
| 064 | 14,400 | | -1,190 | 14,400 |
| 065 | 15,336 | | -0,738 | 15,336 |
| 066 | 18,200 | | 0,567 | 18,200 |
| 069 | 16,300 | | -0,272 | 16,300 |
| 077 | 20,300 | | 1,458 | 20,300 |
| 081 | 20,000 | | 1,330 | 20,000 |
| 083 | 18,700 | | 0,779 | 18,700 |
| 084 | 13,602 | | -1,575 | 13,602 |
| 086 | 15,250 | | -0,779 | 15,250 |
| 093 | 17,050 | | 0,079 | 17,050 |
| 097 | 16,000 | | -0,417 | 16,000 |
| 098 | 13,900 | | -1,431 | 13,900 |
| 106 | 8,140 | | -4,213 | 8,140 |
| 107 | 18,400 | | 0,652 | 18,400 |
| 110 | 18,100 | | 0,525 | 18,100 |
| 116 | 15,630 | | -0,596 | 15,630 |
| 126 | 14,800 | | -0,996 | 14,800 |
| 129 | 17,000 | | 0,058 | 17,000 |
| 131 | 15,100 | | -0,852 | 15,100 |
| 133 | 16,500 | | -0,175 | 16,500 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 6 **Sollwert:** 3,199 µg/L (empirischer Wert)
Merkmal: Tetrachlorethen **Rel. Soll-Stdabw.:** 19,94% (Limited)
Anzahl Labore in Berechnung: 42 **Toleranzbereich:** 2,027 - 4,629 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 3,730 | | 0,742 | 3,730 |
| 006 | 3,150 | | -0,084 | 3,150 |
| 008 | 3,640 | | 0,616 | 3,640 |
| 013 | 2,650 | | -0,937 | 2,650 |
| 017 | 2,690 | | -0,869 | 2,690 |
| 021 | 3,230 | | 0,043 | 3,230 |
| 028 | 4,600 | | 1,959 | 4,600 |
| 029 | 3,110 | | -0,152 | 3,110 |
| 033 | 3,780 | | 0,812 | 3,780 |
| 034 | 3,810 | | 0,854 | 3,810 |
| 035 | 3,240 | | 0,057 | 3,240 |
| 038 | 4,120 | | 1,288 | 4,120 |
| 040 | 1,670 | | -2,609 | 1,670 |
| 041 | 3,640 | | 0,616 | 3,640 |
| 042 | 3,290 | | 0,127 | 3,290 |
| 043 | 2,751 | | -0,765 | 2,751 |
| 050 | 3,250 | | 0,071 | 3,250 |
| 051 | 2,790 | | -0,698 | 2,790 |
| 052 | 2,610 | | -1,005 | 2,610 |
| 055 | 2,600 | | -1,022 | 2,600 |
| 061 | 3,380 | | 0,253 | 3,380 |
| 064 | 3,240 | | 0,057 | 3,240 |
| 065 | 2,630 | | -0,971 | 2,630 |
| 066 | 3,530 | | 0,463 | 3,530 |
| 069 | 3,320 | | 0,169 | 3,320 |
| 077 | 2,620 | | -0,988 | 2,620 |
| 081 | 4,000 | | 1,120 | 4,000 |
| 082 | 2,460 | | -1,261 | 2,460 |
| 083 | 3,200 | | 0,001 | 3,200 |
| 084 | 3,481 | | 0,394 | 3,481 |
| 086 | 2,800 | | -0,681 | 2,800 |
| 093 | 3,950 | | 1,050 | 3,950 |
| 097 | 4,180 | | 1,372 | 4,180 |
| 098 | 3,010 | | -0,323 | 3,010 |
| 106 | 5,950 | | 3,847 | 5,950 |
| 107 | 3,570 | | 0,519 | 3,570 |
| 110 | 2,760 | | -0,749 | 2,760 |
| 116 | 2,958 | | -0,412 | 2,958 |
| 126 | 2,130 | | -1,824 | 2,130 |
| 129 | 3,100 | | -0,169 | 3,100 |
| 131 | 3,110 | | -0,152 | 3,110 |
| 133 | 3,050 | | -0,255 | 3,050 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 6 Sollwert: 9,163 µg/L (empirischer Wert)
 Merkmal: Trichlorethen Rel. Soll-Stdabw.: 15,32% (Limited)
 Anzahl Labore in Berechnung: 42 Toleranzbereich: 6,540 - 12,219 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 9,940 | | 0,509 | 9,940 |
| 006 | 8,600 | | -0,429 | 8,600 |
| 008 | 9,460 | | 0,194 | 9,460 |
| 013 | 7,860 | | -0,993 | 7,860 |
| 017 | 5,470 | | -2,816 | 5,470 |
| 021 | 9,930 | | 0,502 | 9,930 |
| 028 | 12,000 | | 1,856 | 12,000 |
| 029 | 9,450 | | 0,188 | 9,450 |
| 033 | 10,000 | | 0,548 | 10,000 |
| 034 | 9,950 | | 0,515 | 9,950 |
| 035 | 9,400 | | 0,155 | 9,400 |
| 038 | 10,500 | | 0,875 | 10,500 |
| 040 | 1,030 | | -6,201 | 1,030 |
| 041 | 10,300 | | 0,744 | 10,300 |
| 042 | 10,900 | | 1,137 | 10,900 |
| 043 | 8,328 | | -0,636 | 8,328 |
| 050 | 9,690 | | 0,345 | 9,690 |
| 051 | 8,080 | | -0,826 | 8,080 |
| 052 | 6,320 | | -2,168 | 6,320 |
| 055 | 8,340 | | -0,627 | 8,340 |
| 061 | 9,860 | | 0,456 | 9,860 |
| 064 | 10,300 | | 0,744 | 10,300 |
| 065 | 6,235 | | -2,232 | 6,235 |
| 066 | 9,530 | | 0,240 | 9,530 |
| 069 | 9,520 | | 0,234 | 9,520 |
| 077 | 8,350 | | -0,620 | 8,350 |
| 081 | 10,300 | | 0,744 | 10,300 |
| 082 | 9,280 | | 0,077 | 9,280 |
| 083 | 7,500 | | -1,268 | 7,500 |
| 084 | 10,175 | | 0,662 | 10,175 |
| 086 | 8,120 | | -0,795 | 8,120 |
| 093 | 6,860 | | -1,756 | 6,860 |
| 097 | 13,300 | | 2,707 | 13,300 |
| 098 | 9,530 | | 0,240 | 9,530 |
| 106 | 9,650 | | 0,319 | 9,650 |
| 107 | 10,400 | | 0,810 | 10,400 |
| 110 | 4,420 | | -3,616 | 4,420 |
| 116 | 9,233 | | 0,046 | 9,233 |
| 126 | 7,690 | | -1,123 | 7,690 |
| 129 | 9,000 | | -0,124 | 9,000 |
| 131 | 9,170 | | 0,005 | 9,170 |
| 133 | 8,980 | | -0,139 | 8,980 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 6 Sollwert: 9,585 µg/L (empirischer Wert)
 Merkmal: Trichlormethan Rel. Soll-Stdabw.: 11,98% (Limited)
 Anzahl Labore in Berechnung: 42 Toleranzbereich: 7,411 - 12,036 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 10,100 | | 0,420 | 10,100 |
| 006 | 8,750 | | -0,768 | 8,750 |
| 008 | 9,560 | | -0,023 | 9,560 |
| 013 | 8,740 | | -0,778 | 8,740 |
| 017 | 7,750 | | -1,688 | 7,750 |
| 021 | 9,620 | | 0,028 | 9,620 |
| 028 | 10,600 | | 0,828 | 10,600 |
| 029 | 9,410 | | -0,161 | 9,410 |
| 033 | 10,400 | | 0,665 | 10,400 |
| 034 | 9,450 | | -0,125 | 9,450 |
| 035 | 8,980 | | -0,557 | 8,980 |
| 038 | 9,850 | | 0,216 | 9,850 |
| 040 | 8,100 | | -1,366 | 8,100 |
| 041 | 10,300 | | 0,583 | 10,300 |
| 042 | 10,600 | | 0,828 | 10,600 |
| 043 | 10,800 | | 0,991 | 10,800 |
| 050 | 9,180 | | -0,373 | 9,180 |
| 051 | 7,850 | | -1,596 | 7,850 |
| 052 | 8,720 | | -0,796 | 8,720 |
| 055 | 9,060 | | -0,483 | 9,060 |
| 061 | 9,620 | | 0,028 | 9,620 |
| 064 | 11,300 | | 1,399 | 11,300 |
| 065 | 7,173 | | -2,219 | 7,173 |
| 066 | 10,300 | | 0,583 | 10,300 |
| 069 | 9,080 | | -0,465 | 9,080 |
| 077 | 11,310 | | 1,407 | 11,310 |
| 081 | 11,200 | | 1,318 | 11,200 |
| 082 | 10,700 | | 0,910 | 10,700 |
| 083 | 11,000 | | 1,154 | 11,000 |
| 084 | 9,673 | | 0,072 | 9,673 |
| 086 | 8,260 | | -1,219 | 8,260 |
| 097 | 10,700 | | 0,910 | 10,700 |
| 098 | 9,960 | | 0,306 | 9,960 |
| 106 | 9,000 | | -0,538 | 9,000 |
| 107 | 7,890 | | -1,559 | 7,890 |
| 110 | 9,940 | | 0,289 | 9,940 |
| 116 | 9,795 | | 0,171 | 9,795 |
| 126 | 8,290 | | -1,191 | 8,290 |
| 129 | 9,460 | | -0,115 | 9,460 |
| 131 | 8,770 | | -0,750 | 8,770 |
| 132 | 11,300 | | 1,399 | 11,300 |
| 133 | 9,230 | | -0,327 | 9,230 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 6 **Sollwert:** 11,820 µg/L (empirischer Wert)
Merkmal: Bromdichlormethan **Rel. Soll-Stdabw.:** 9,44% (Limited)
Anzahl Labore in Berechnung: 42 **Toleranzbereich:** 9,683 - 14,168 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 12,800 | | 0,835 | 12,800 |
| 006 | 10,990 | | -0,777 | 10,990 |
| 008 | 12,400 | | 0,494 | 12,400 |
| 013 | 10,700 | | -1,048 | 10,700 |
| 017 | 9,880 | | -1,816 | 9,880 |
| 021 | 12,000 | | 0,153 | 12,000 |
| 028 | 12,700 | | 0,750 | 12,700 |
| 029 | 13,100 | | 1,090 | 13,100 |
| 033 | 12,800 | | 0,835 | 12,800 |
| 034 | 11,300 | | -0,487 | 11,300 |
| 035 | 11,010 | | -0,758 | 11,010 |
| 038 | 12,400 | | 0,494 | 12,400 |
| 040 | 10,800 | | -0,955 | 10,800 |
| 041 | 13,100 | | 1,090 | 13,100 |
| 042 | 13,100 | | 1,090 | 13,100 |
| 043 | 13,218 | | 1,191 | 13,218 |
| 050 | 11,300 | | -0,487 | 11,300 |
| 051 | 9,850 | | -1,844 | 9,850 |
| 052 | 10,830 | | -0,926 | 10,830 |
| 055 | 12,000 | | 0,153 | 12,000 |
| 061 | 11,520 | | -0,281 | 11,520 |
| 064 | 11,200 | | -0,580 | 11,200 |
| 065 | 11,185 | | -0,594 | 11,185 |
| 066 | 13,000 | | 1,005 | 13,000 |
| 069 | 11,100 | | -0,674 | 11,100 |
| 077 | 14,000 | | 1,857 | 14,000 |
| 081 | 13,400 | | 1,346 | 13,400 |
| 082 | 12,700 | | 0,750 | 12,700 |
| 083 | 6,400 | | -5,073 | 6,400 |
| 084 | 12,152 | | 0,283 | 12,152 |
| 086 | 10,480 | | -1,254 | 10,480 |
| 097 | 10,900 | | -0,861 | 10,900 |
| 098 | 11,900 | | 0,068 | 11,900 |
| 106 | 9,650 | | -2,031 | 9,650 |
| 107 | 13,000 | | 1,005 | 13,000 |
| 110 | 12,800 | | 0,835 | 12,800 |
| 116 | 11,100 | | -0,674 | 11,100 |
| 126 | 11,200 | | -0,580 | 11,200 |
| 129 | 12,200 | | 0,324 | 12,200 |
| 131 | 10,500 | | -1,235 | 10,500 |
| 132 | 12,900 | | 0,920 | 12,900 |
| 133 | 10,900 | | -0,861 | 10,900 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 6 **Sollwert:** 5,009 µg/L (empirischer Wert)
Merkmal: Dibromchlormethan **Rel. Soll-Stdabw.:** 11,40% (Limited)
Anzahl Labore in Berechnung: 42 **Toleranzbereich:** 3,925 - 6,223 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 6,050 | | 1,715 | 6,050 |
| 006 | 4,630 | | -0,699 | 4,630 |
| 008 | 4,650 | | -0,662 | 4,650 |
| 013 | 4,980 | | -0,053 | 4,980 |
| 017 | 3,990 | | -1,880 | 3,990 |
| 021 | 4,960 | | -0,090 | 4,960 |
| 028 | 5,640 | | 1,039 | 5,640 |
| 029 | 5,430 | | 0,694 | 5,430 |
| 033 | 5,540 | | 0,875 | 5,540 |
| 034 | 4,650 | | -0,662 | 4,650 |
| 035 | 4,860 | | -0,275 | 4,860 |
| 038 | 5,010 | | 0,002 | 5,010 |
| 040 | 4,700 | | -0,570 | 4,700 |
| 041 | 5,390 | | 0,628 | 5,390 |
| 042 | 5,140 | | 0,216 | 5,140 |
| 043 | 4,266 | | -1,371 | 4,266 |
| 050 | 5,230 | | 0,364 | 5,230 |
| 051 | 4,500 | | -0,939 | 4,500 |
| 052 | 4,570 | | -0,810 | 4,570 |
| 055 | 4,550 | | -0,847 | 4,550 |
| 061 | 4,870 | | -0,256 | 4,870 |
| 064 | 4,410 | | -1,105 | 4,410 |
| 065 | 4,479 | | -0,978 | 4,479 |
| 066 | 5,910 | | 1,484 | 5,910 |
| 069 | 4,810 | | -0,367 | 4,810 |
| 077 | 5,500 | | 0,809 | 5,500 |
| 081 | 5,540 | | 0,875 | 5,540 |
| 082 | 5,370 | | 0,595 | 5,370 |
| 083 | 5,000 | | -0,016 | 5,000 |
| 084 | 5,154 | | 0,239 | 5,154 |
| 086 | 4,530 | | -0,884 | 4,530 |
| 097 | 5,980 | | 1,599 | 5,980 |
| 098 | 5,170 | | 0,265 | 5,170 |
| 106 | 6,550 | | 2,538 | 6,550 |
| 107 | 5,650 | | 1,056 | 5,650 |
| 110 | 5,640 | | 1,039 | 5,640 |
| 116 | 4,610 | | -0,736 | 4,610 |
| 126 | 4,320 | | -1,271 | 4,320 |
| 129 | 4,950 | | -0,109 | 4,950 |
| 131 | 4,800 | | -0,385 | 4,800 |
| 132 | 4,880 | | -0,238 | 4,880 |
| 133 | 4,380 | | -1,161 | 4,380 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 6 **Sollwert:** 2,419 µg/L (empirischer Wert)
Merkmal: Tribrommethan **Rel. Soll-Stdabw.:** 17,90% (Limited)
Anzahl Labore in Berechnung: 42 **Toleranzbereich:** 1,618 - 3,377 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 4,690 | | 4,741 | 4,690 |
| 006 | 2,300 | | -0,297 | 2,300 |
| 008 | 2,820 | | 0,837 | 2,820 |
| 013 | 2,230 | | -0,471 | 2,230 |
| 017 | 2,010 | | -1,020 | 2,010 |
| 021 | 2,430 | | 0,023 | 2,430 |
| 028 | 2,910 | | 1,025 | 2,910 |
| 029 | 2,410 | | -0,022 | 2,410 |
| 033 | 2,700 | | 0,587 | 2,700 |
| 034 | 2,410 | | -0,022 | 2,410 |
| 035 | 2,570 | | 0,315 | 2,570 |
| 038 | 2,310 | | -0,272 | 2,310 |
| 040 | 1,270 | | -2,867 | 1,270 |
| 041 | 2,890 | | 0,983 | 2,890 |
| 042 | 2,560 | | 0,295 | 2,560 |
| 043 | 2,027 | | -0,978 | 2,027 |
| 050 | 2,760 | | 0,712 | 2,760 |
| 051 | 2,190 | | -0,571 | 2,190 |
| 052 | 1,790 | | -1,569 | 1,790 |
| 055 | 2,730 | | 0,649 | 2,730 |
| 061 | 2,360 | | -0,147 | 2,360 |
| 064 | 1,740 | | -1,694 | 1,740 |
| 065 | 1,909 | | -1,272 | 1,909 |
| 066 | 2,850 | | 0,900 | 2,850 |
| 069 | 2,120 | | -0,746 | 2,120 |
| 077 | 2,570 | | 0,315 | 2,570 |
| 081 | 2,660 | | 0,503 | 2,660 |
| 082 | 3,330 | | 1,902 | 3,330 |
| 083 | 3,000 | | 1,213 | 3,000 |
| 084 | 2,758 | | 0,708 | 2,758 |
| 086 | 2,140 | | -0,696 | 2,140 |
| 097 | 2,760 | | 0,712 | 2,760 |
| 098 | 2,630 | | 0,441 | 2,630 |
| 106 | 5,250 | | 5,910 | 5,250 |
| 107 | 2,270 | | -0,372 | 2,270 |
| 110 | 2,670 | | 0,524 | 2,670 |
| 116 | 2,323 | | -0,239 | 2,323 |
| 126 | 2,120 | | -0,746 | 2,120 |
| 129 | 2,400 | | -0,047 | 2,400 |
| 131 | 2,300 | | -0,297 | 2,300 |
| 132 | 2,070 | | -0,871 | 2,070 |
| 133 | 2,190 | | -0,571 | 2,190 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 6 **Sollwert:** 10,577 µg/L (empirischer Wert)
Merkmal: Benzol **Rel. Soll-Stdabw.:** 12,17% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 8,141 - 13,328 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 11,900 | | 0,962 | 11,900 |
| 006 | 9,680 | | -0,737 | 9,680 |
| 008 | 10,950 | | 0,271 | 10,950 |
| 013 | 9,540 | | -0,852 | 9,540 |
| 017 | 8,270 | | -1,894 | 8,270 |
| 021 | 10,200 | | -0,310 | 10,200 |
| 028 | 11,900 | | 0,962 | 11,900 |
| 029 | 8,500 | | -1,705 | 8,500 |
| 033 | 12,400 | | 1,325 | 12,400 |
| 034 | 10,800 | | 0,162 | 10,800 |
| 035 | 9,920 | | -0,540 | 9,920 |
| 038 | 11,100 | | 0,380 | 11,100 |
| 040 | 8,980 | | -1,311 | 8,980 |
| 041 | 11,900 | | 0,962 | 11,900 |
| 042 | 12,300 | | 1,253 | 12,300 |
| 043 | 10,992 | | 0,302 | 10,992 |
| 050 | 10,300 | | -0,228 | 10,300 |
| 051 | 8,490 | | -1,714 | 8,490 |
| 052 | 9,540 | | -0,852 | 9,540 |
| 055 | 9,960 | | -0,507 | 9,960 |
| 061 | 11,450 | | 0,635 | 11,450 |
| 064 | 12,300 | | 1,253 | 12,300 |
| 065 | 9,866 | | -0,584 | 9,866 |
| 066 | 11,700 | | 0,817 | 11,700 |
| 069 | 10,800 | | 0,162 | 10,800 |
| 077 | 11,800 | | 0,889 | 11,800 |
| 081 | 12,100 | | 1,107 | 12,100 |
| 083 | 10,900 | | 0,235 | 10,900 |
| 084 | 11,498 | | 0,670 | 11,498 |
| 086 | 9,720 | | -0,704 | 9,720 |
| 093 | 10,230 | | -0,285 | 10,230 |
| 097 | 10,300 | | -0,228 | 10,300 |
| 098 | 10,400 | | -0,145 | 10,400 |
| 106 | 8,400 | | -1,788 | 8,400 |
| 107 | 8,980 | | -1,311 | 8,980 |
| 110 | 9,720 | | -0,704 | 9,720 |
| 116 | 10,990 | | 0,300 | 10,990 |
| 126 | 9,950 | | -0,515 | 9,950 |
| 129 | 11,500 | | 0,671 | 11,500 |
| 131 | 10,000 | | -0,474 | 10,000 |
| 133 | 12,700 | | 1,544 | 12,700 |



Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 6 **Sollwert:** 5,953 µg/L (empirischer Wert)
Merkmal: Vinylchlorid **Rel. Soll-Stdabw.:** 25,00% (Limited)
Anzahl Labore in Berechnung: 28 **Toleranzbereich:** 3,263 - 9,406 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 6,440 | | 0,282 | 6,440 |
| 006 | 5,930 | | -0,017 | 5,930 |
| 008 | 5,870 | | -0,062 | 5,870 |
| 013 | 8,590 | | 1,528 | 8,590 |
| 017 | 4,360 | | -1,184 | 4,360 |
| 021 | 5,210 | | -0,552 | 5,210 |
| 033 | 6,490 | | 0,311 | 6,490 |
| 034 | 5,040 | | -0,679 | 5,040 |
| 038 | 6,490 | | 0,311 | 6,490 |
| 040 | 2,810 | | -2,337 | 2,810 |
| 041 | 5,720 | | -0,173 | 5,720 |
| 042 | 12,500 | | 3,792 | 12,500 |
| 043 | 10,213 | | 2,468 | 10,213 |
| 050 | 18,000 | | 6,978 | 18,000 |
| 051 | 2,660 | | -2,449 | 2,660 |
| 052 | 5,170 | | -0,582 | 5,170 |
| 055 | 39,500 | | 19,431 | 39,500 |
| 064 | 10,300 | | 2,518 | 10,300 |
| 066 | 6,570 | | 0,357 | 6,570 |
| 069 | 5,330 | | -0,463 | 5,330 |
| 081 | 8,030 | | 1,203 | 8,030 |
| 083 | 4,800 | | -0,857 | 4,800 |
| 086 | 5,840 | | -0,084 | 5,840 |
| 093 | 3,430 | | -1,876 | 3,430 |
| 097 | 6,280 | | 0,190 | 6,280 |
| 106 | 7,150 | | 0,693 | 7,150 |
| 110 | 4,530 | | -1,058 | 4,530 |
| 133 | 5,100 | | -0,634 | 5,100 |

Probe 7

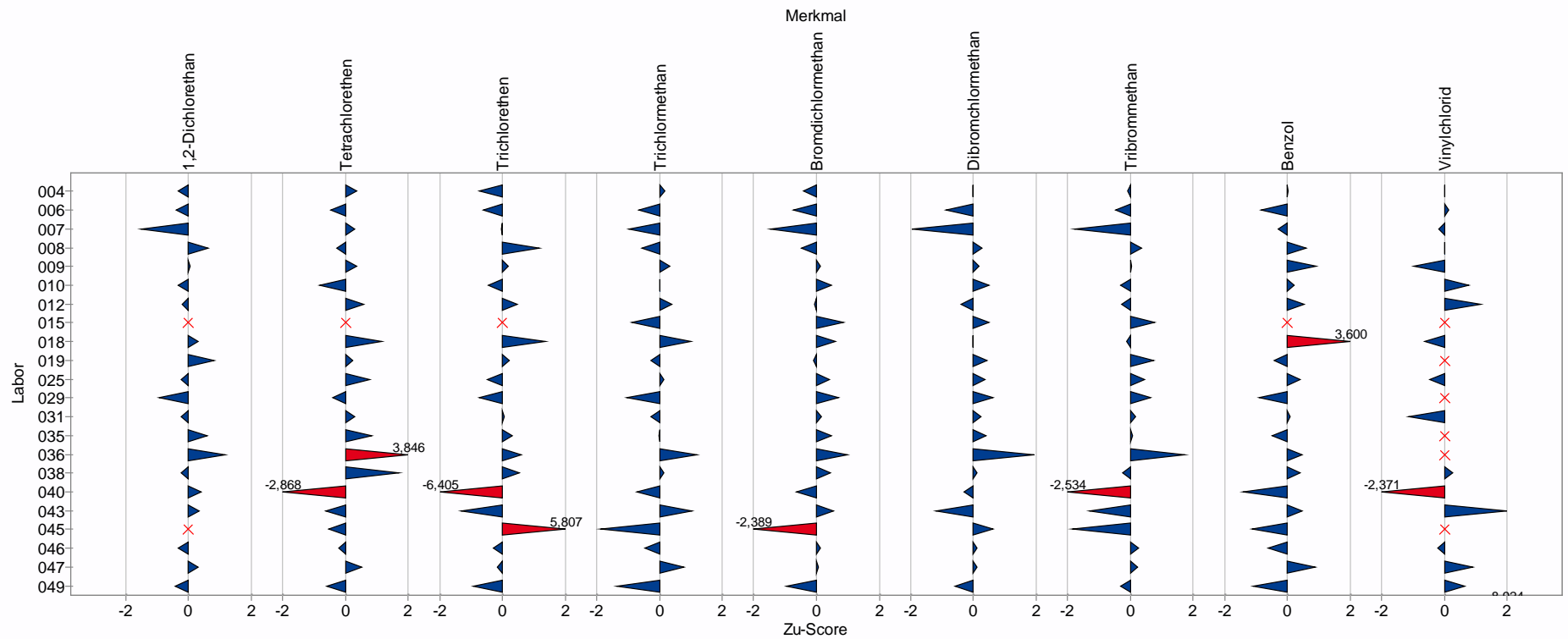
Kennwerte – Probe 7

Tabelle

| Probe 7 | Einheit | Anzahl der Labore | Sollwert | Soll-Stdabw. | Vergleich-Stdabw. | Rel. Soll-Stdabw. | Rel. Vergleich-Stdabw. | unt. Toleranzgr. | ob. Toleranzgr. | Messunsicherheit MU |
|-------------------|---------|-------------------|----------|--------------|-------------------|-------------------|------------------------|------------------|-----------------|---------------------|
| 1,2-Dichlorethan | µg/L | 43 | 6,864 | 1,033 | 1,033 | 15,05 % | 15,05 % | 4,931 | 9,110 | 2,87 % |
| Tetrachlorethen | µg/L | 44 | 12,143 | 1,721 | 1,721 | 14,17 % | 14,17 % | 8,912 | 15,865 | 2,67 % |
| Trichlorethen | µg/L | 44 | 2,031 | 0,288 | 0,288 | 14,18 % | 14,18 % | 1,491 | 2,654 | 2,67 % |
| Trichlormethan | µg/L | 45 | 5,123 | 0,508 | 0,508 | 9,92 % | 9,92 % | 4,152 | 6,196 | 1,85 % |
| Bromdichlormethan | µg/L | 45 | 9,328 | 1,034 | 1,034 | 11,08 % | 11,08 % | 7,362 | 11,523 | 2,07 % |
| Dibromchlormethan | µg/L | 45 | 12,633 | 1,484 | 1,484 | 11,75 % | 11,75 % | 9,820 | 15,796 | 2,19 % |
| Tribrommethan | µg/L | 45 | 13,451 | 1,944 | 1,944 | 14,46 % | 14,46 % | 9,804 | 17,664 | 2,69 % |
| Benzol | µg/L | 44 | 6,466 | 0,747 | 0,747 | 11,56 % | 11,56 % | 5,048 | 8,057 | 2,18 % |
| Vinylchlorid | µg/L | 30 | 2,843 | 0,711 | 1,019 | 25,00 % | 35,85 % | 1,558 | 4,492 | 8,18 % |

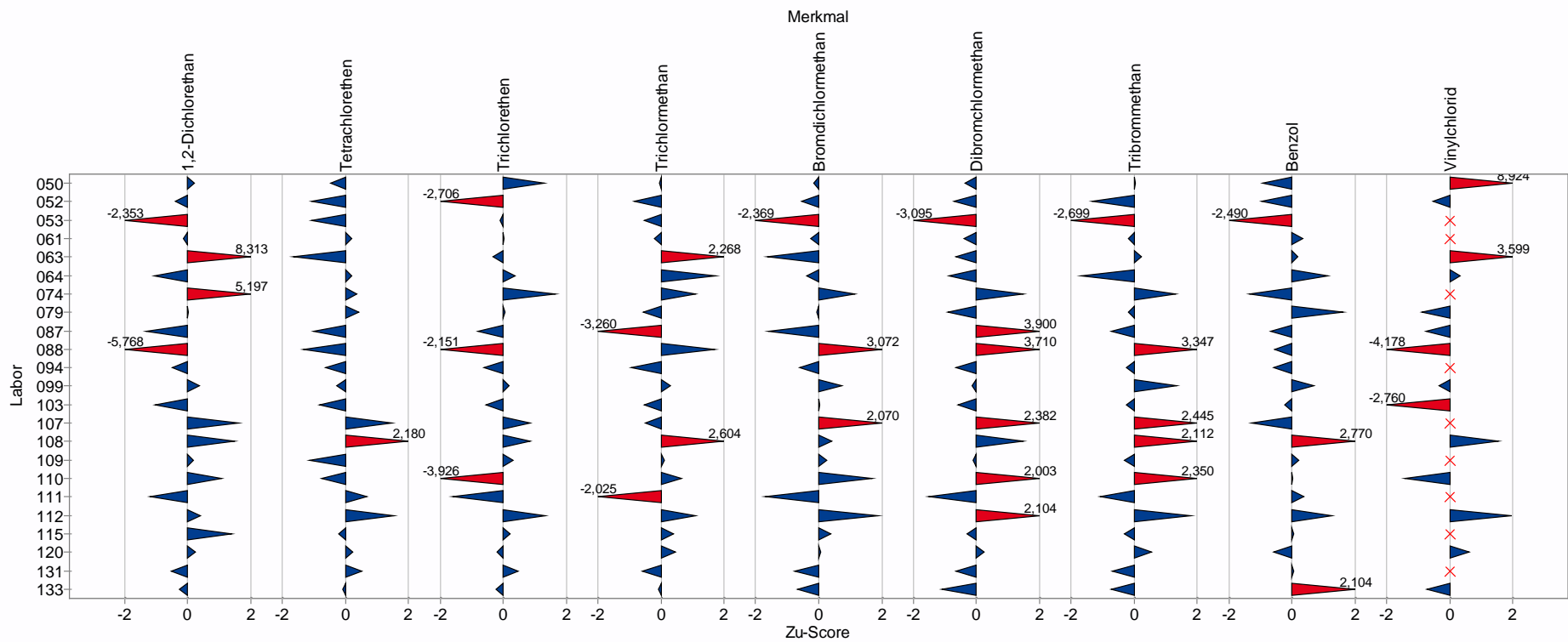
Übersicht z_U-Scores

Graphik 7a: z_U-scores Probe7, Teil 1



PROLab

Graphik 7b: z_U-scores Probe7, Teil 2



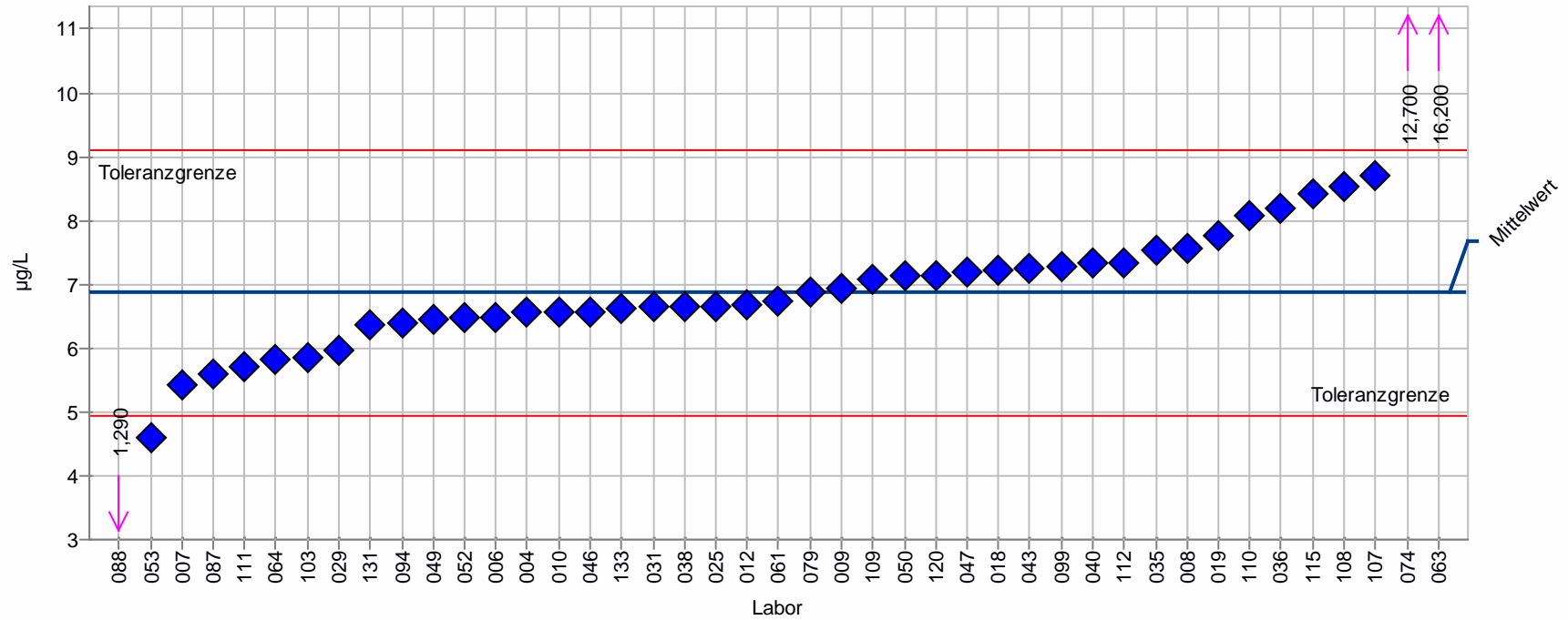
PROLab

Einzeldarstellung der Parameter

Grafik und Tabelle

Abbildung 55: Mittelwerte + Stdabw. für Niveau 7, 1,2-Dichlorethan

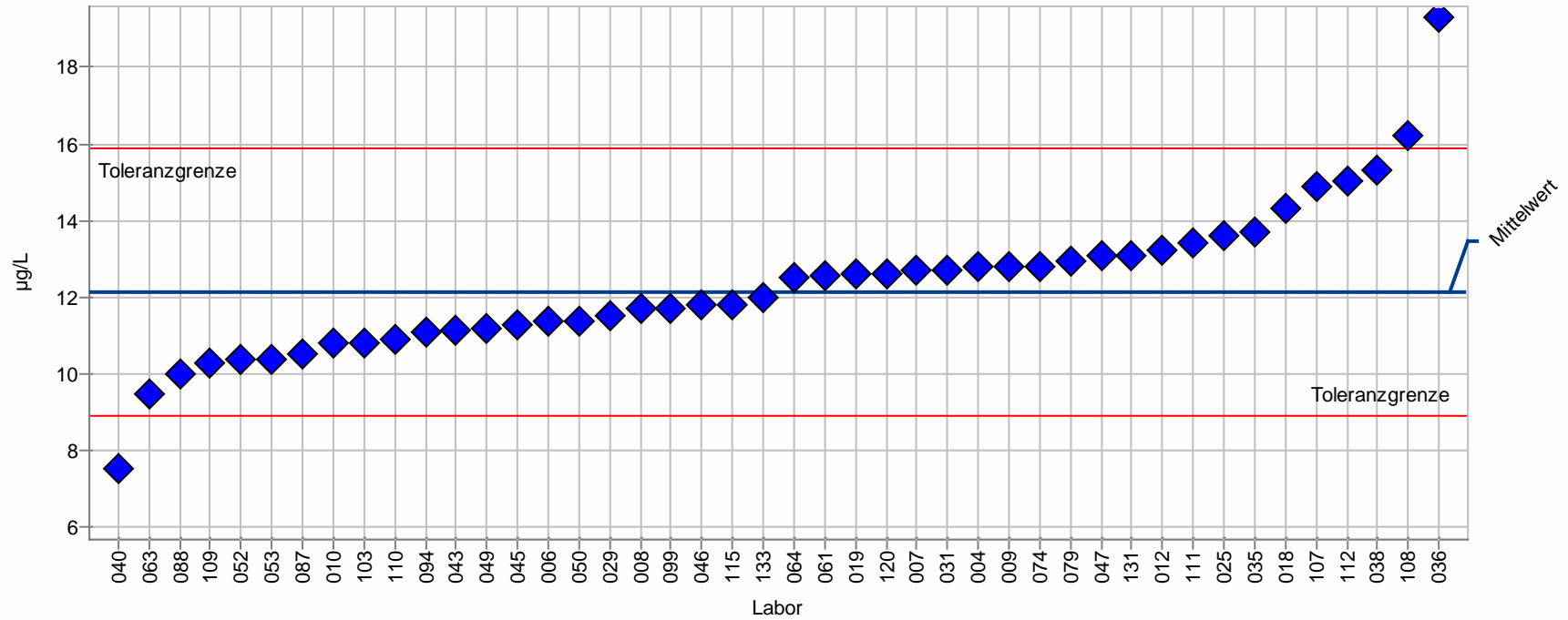
Probe: Niveau 7 Sollwert: 6,864 µg/L (empirischer Wert)
 Merkmal: 1,2-Dichlorethan Rel. Soll-Stdabw.: 15,05% (Limited)
 Anzahl Labore in Berechnung: 43 Toleranzbereich: 4,931 - 9,110 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 56: Mittelwerte + Stdabw. für Niveau 7, Tetrachlorethen

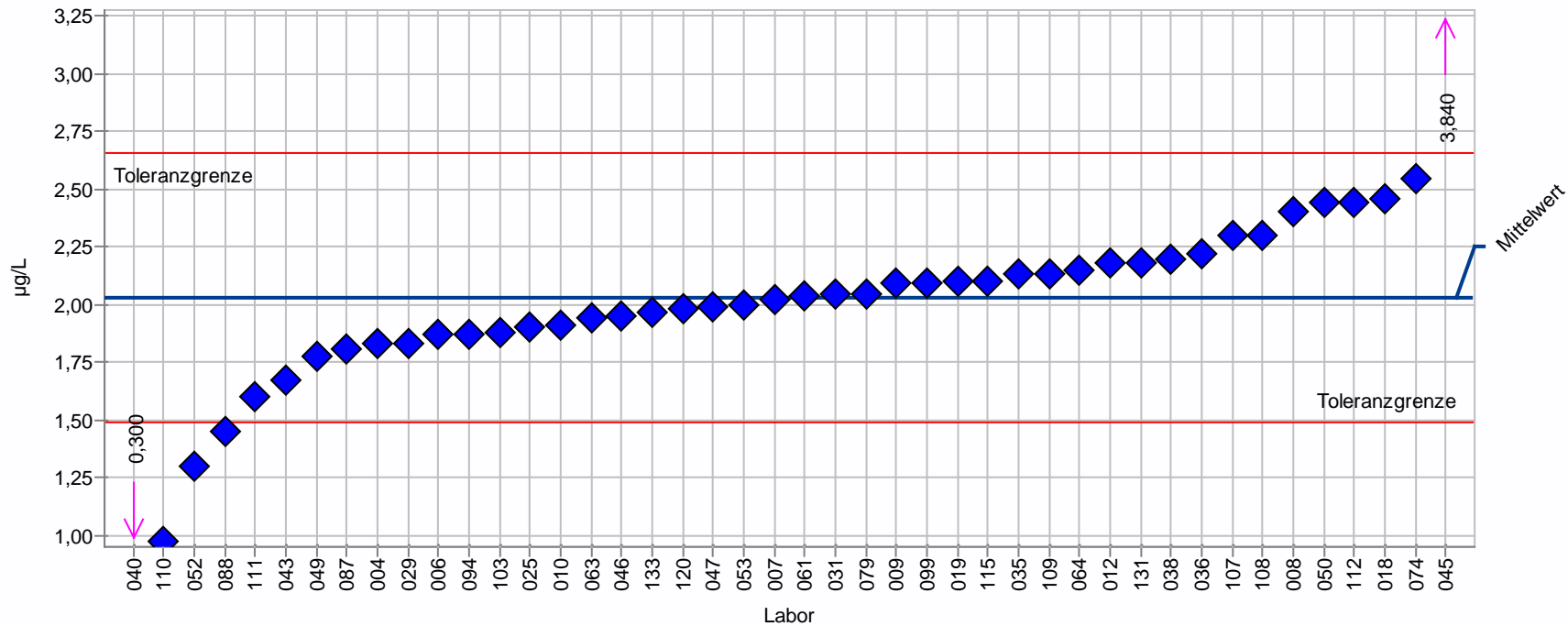
Probe: Niveau 7 Sollwert: 12,143 µg/L (empirischer Wert)
 Merkmal: Tetrachlorethen Rel. Soll-Stdabw.: 14,17% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 8,912 - 15,865 µg/L ($|Zu\text{-Score}| \leq 2,000$)



PROLab

Abbildung 57: Mittelwerte + Stdabw. für Niveau 7, Trichlorethen

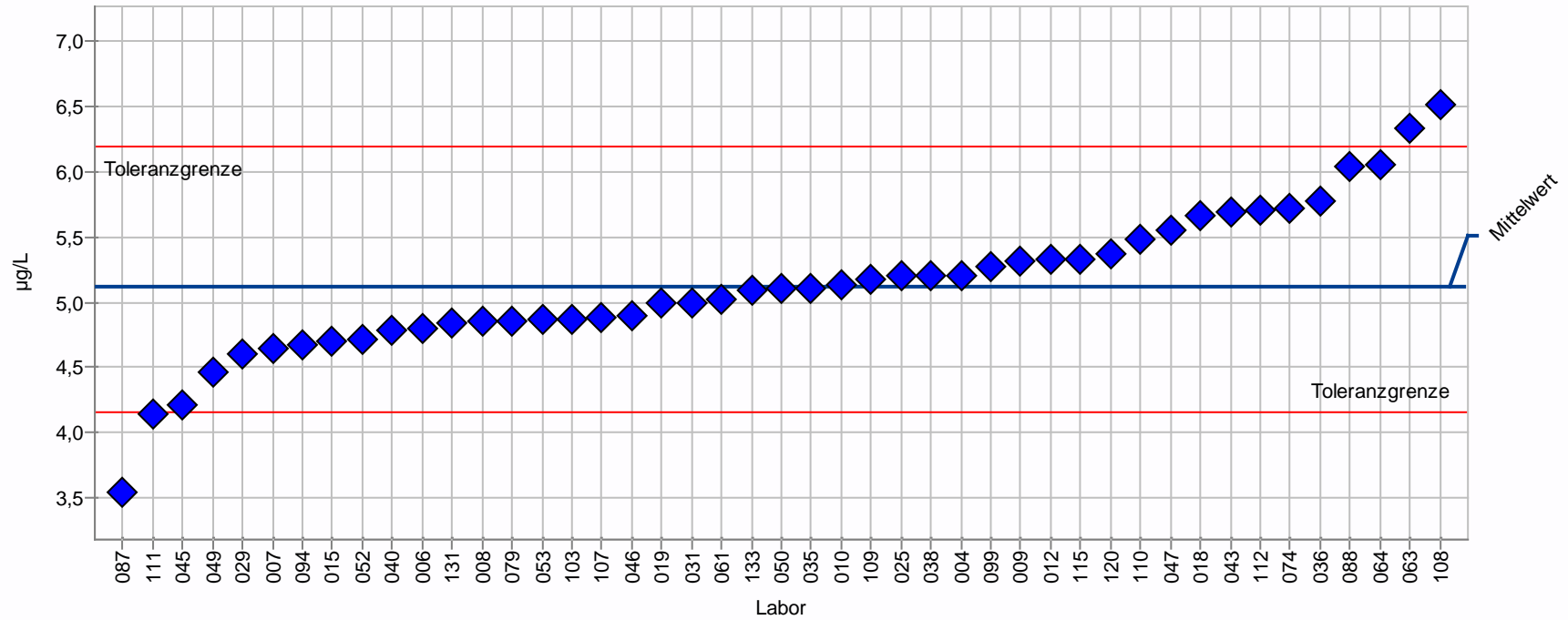
Probe: Niveau 7 Sollwert: 2,031 µg/L (empirischer Wert)
 Merkmal: Trichlorethen Rel. Soll-Stdabw.: 14,18% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 1,491 - 2,654 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 58: Mittelwerte + Stdabw. für Niveau 7, Trichlormethan

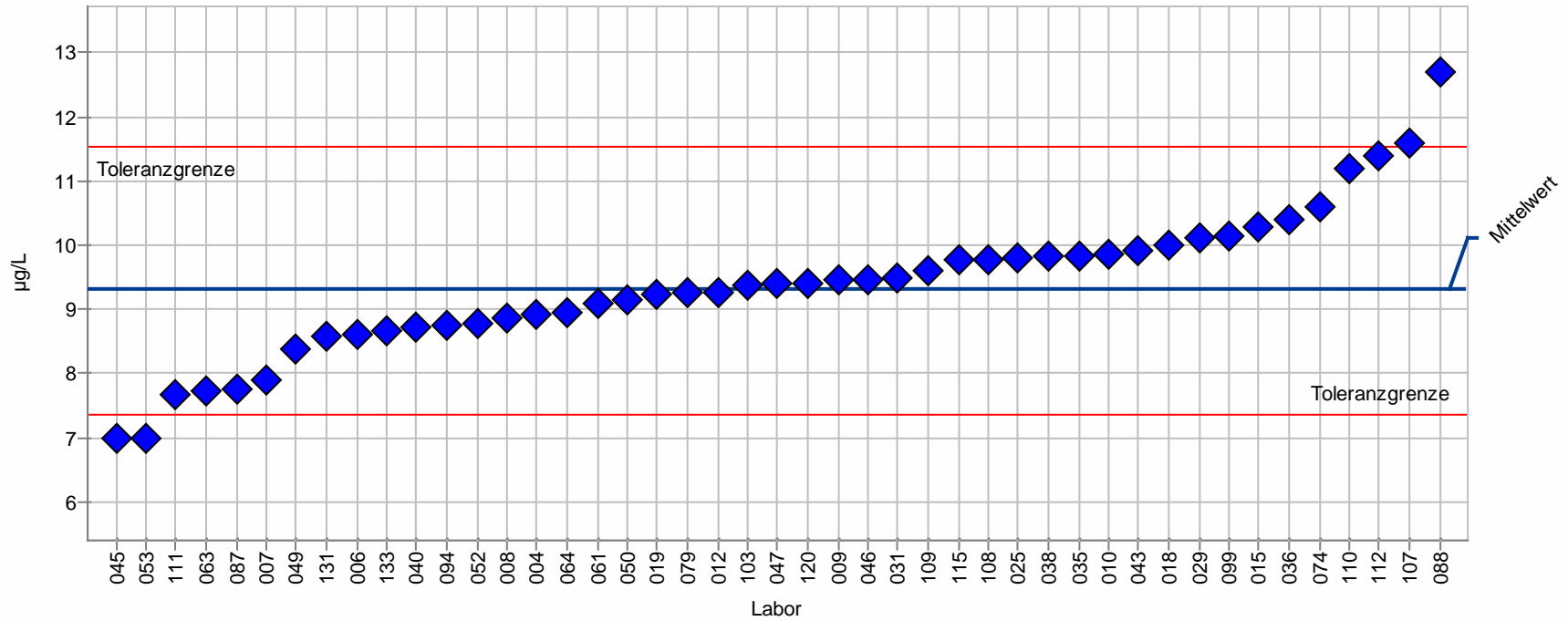
Probe: Niveau 7 Sollwert: 5,123 µg/L (empirischer Wert)
 Merkmal: Trichlormethan Rel. Soll-Stdabw.: 9,92% (Limited)
 Anzahl Labore in Berechnung: 45 Toleranzbereich: 4,152 - 6,196 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 59: Mittelwerte + Stdabw. für Niveau 7, Bromdichlormethan

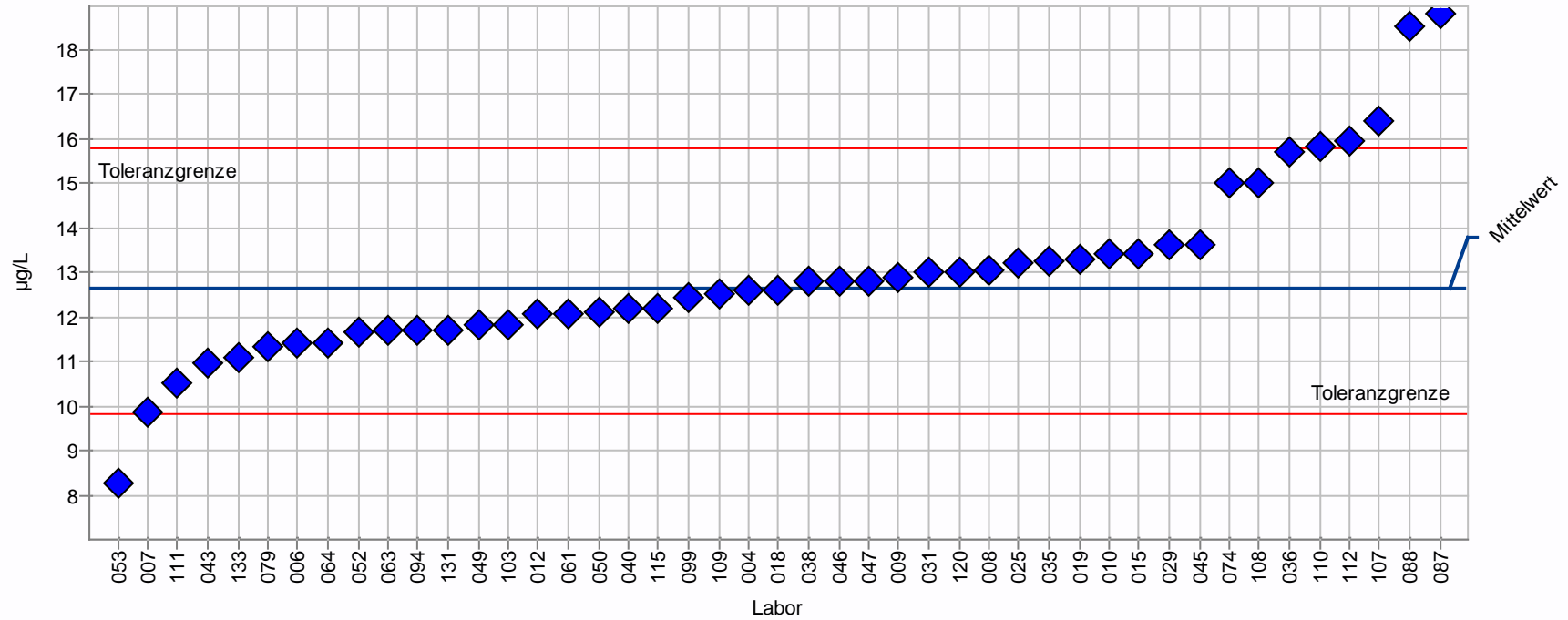
Probe: Niveau 7
 Merkmal: Bromdichlormethan
 Anzahl Labore in Berechnung: 45
 Sollwert: 9,328 µg/L (empirischer Wert)
 Rel. Soll-Stdabw.: 11,08% (Limited)
 Toleranzbereich: 7,362 - 11,523 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 60: Mittelwerte + Stdabw. für Niveau 7, Dibromchlormethan

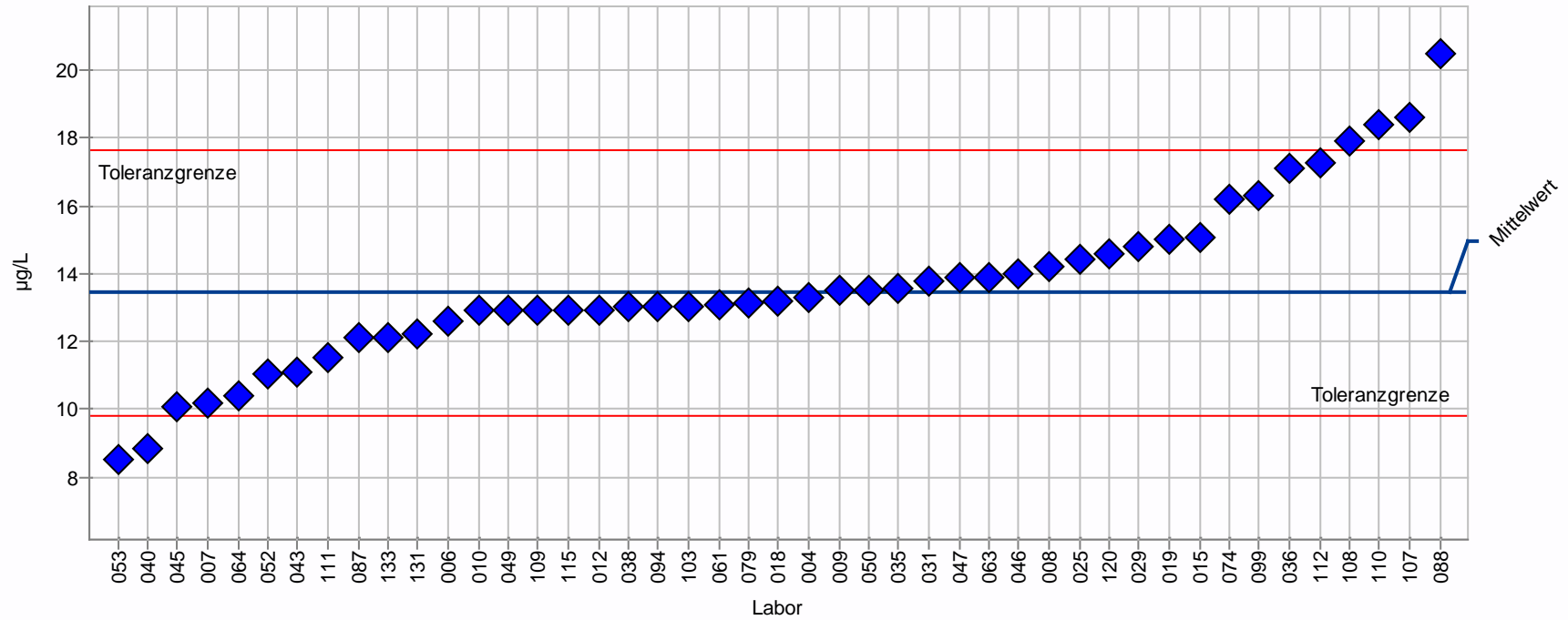
Probe: Niveau 7
 Merkmal: Dibromchlormethan
 Anzahl Labore in Berechnung: 45
 Sollwert: 12,633 µg/L (empirischer Wert)
 Rel. Soll-Stdabw.: 11,75% (Limited)
 Toleranzbereich: 9,820 - 15,796 µg/L ($|Z\text{-Score}| \leq 2,000$)



PROLab

Abbildung 61: Mittelwerte + Stdabw. für Niveau 7, Tribrommethan

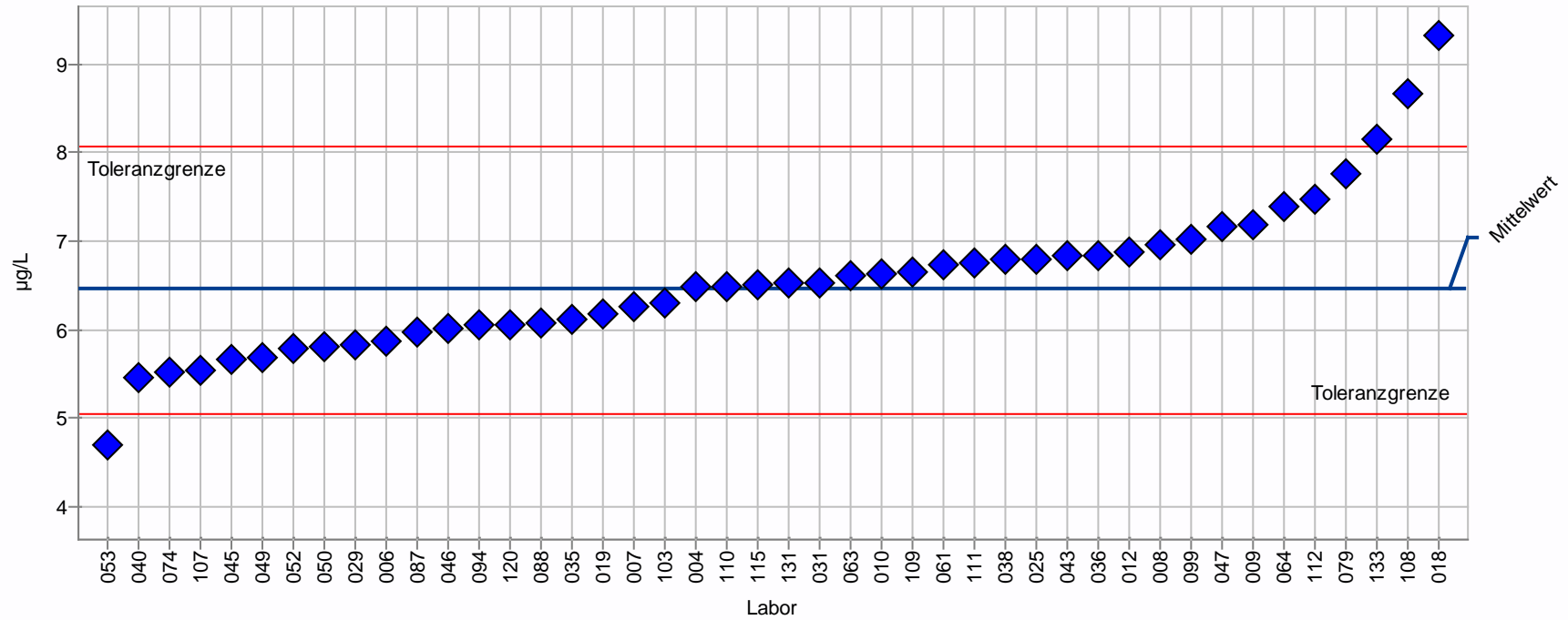
Probe: Niveau 7 Sollwert: 13,451 µg/L (empirischer Wert)
 Merkmal: Tribrommethan Rel. Soll-Stdabw.: 14,46% (Limited)
 Anzahl Labore in Berechnung: 45 Toleranzbereich: 9,804 - 17,664 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 62: Mittelwerte + Stdabw. für Niveau 7, Benzol

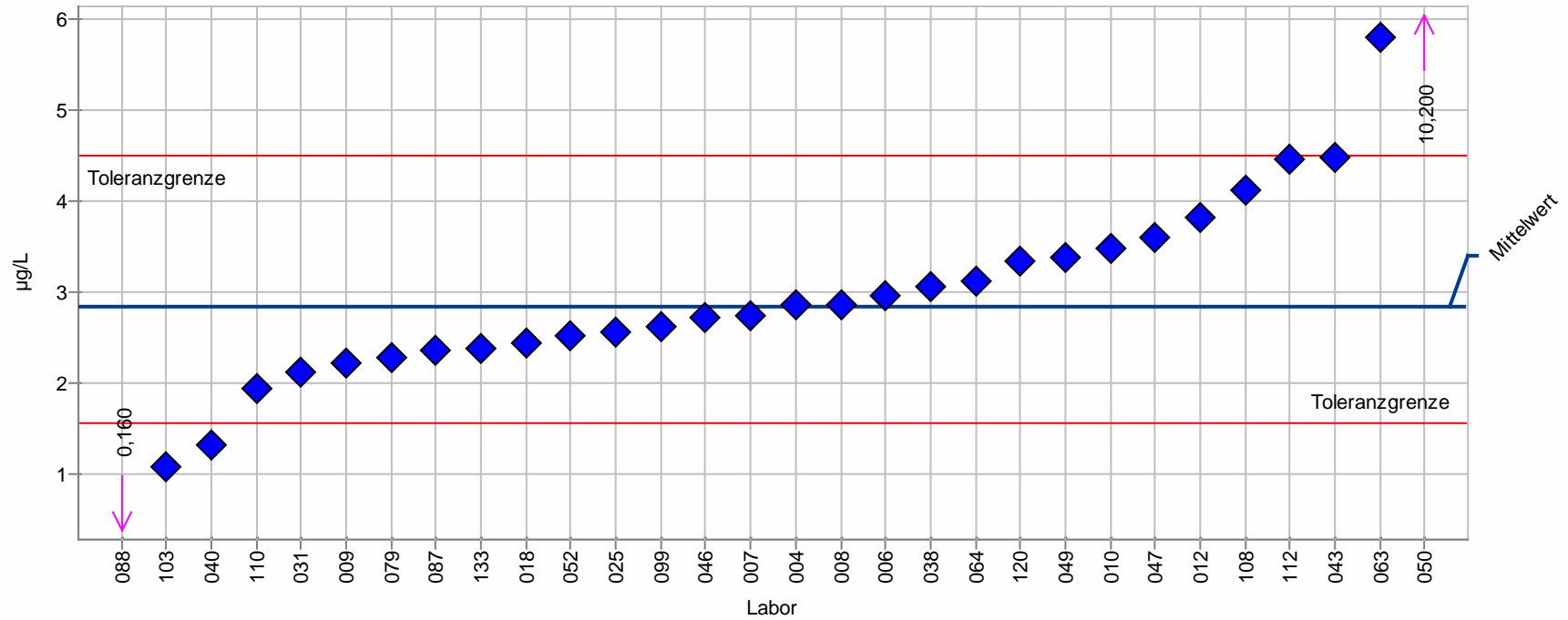
Probe: Niveau 7 Sollwert: 6,466 µg/L (empirischer Wert)
 Merkmal: Benzol Rel. Soll-Stdabw.: 11,56% (Limited)
 Anzahl Labore in Berechnung: 44 Toleranzbereich: 5,048 - 8,057 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 63: Mittelwerte + Stdabw. für Niveau 7, Vinylchlorid

Probe: Niveau 7 Sollwert: 2,843 µg/L (empirischer Wert)
 Merkmal: Vinylchlorid Rel. Soll-Stdabw.: 25,00% (Limited)
 Anzahl Labore in Berechnung: 30 Toleranzbereich: 1,558 - 4,492 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 7 **Sollwert:** 6,864 µg/L (empirischer Wert)
Merkmal: 1,2-Dichlorethan **Rel. Soll-Stdabw.:** 15,05% (Limited)
Anzahl Labore in Berechnung: 43 **Toleranzbereich:** 4,931 - 9,110 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 004 | 6,550 | | -0,324 | 6,550 |
| 006 | 6,490 | | -0,387 | 6,490 |
| 007 | 5,410 | | -1,504 | 5,410 |
| 008 | 7,570 | | 0,629 | 7,570 |
| 009 | 6,930 | | 0,059 | 6,930 |
| 010 | 6,550 | | -0,324 | 6,550 |
| 012 | 6,670 | | -0,200 | 6,670 |
| 018 | 7,210 | | 0,309 | 7,210 |
| 019 | 7,770 | | 0,807 | 7,770 |
| 025 | 6,650 | | -0,221 | 6,650 |
| 029 | 5,970 | | -0,925 | 5,970 |
| 031 | 6,640 | | -0,231 | 6,640 |
| 035 | 7,530 | | 0,593 | 7,530 |
| 036 | 8,180 | | 1,172 | 8,180 |
| 038 | 6,640 | | -0,231 | 6,640 |
| 040 | 7,330 | | 0,415 | 7,330 |
| 043 | 7,249 | | 0,343 | 7,249 |
| 046 | 6,550 | | -0,324 | 6,550 |
| 047 | 7,200 | | 0,300 | 7,200 |
| 049 | 6,450 | | -0,428 | 6,450 |
| 050 | 7,120 | | 0,228 | 7,120 |
| 052 | 6,470 | | -0,407 | 6,470 |
| 053 | 4,590 | | -2,353 | 4,590 |
| 061 | 6,740 | | -0,128 | 6,740 |
| 063 | 16,200 | | 8,313 | 16,200 |
| 064 | 5,830 | | -1,070 | 5,830 |
| 074 | 12,700 | | 5,197 | 12,700 |
| 079 | 6,885 | | 0,019 | 6,885 |
| 087 | 5,600 | | -1,308 | 5,600 |
| 088 | 1,290 | | -5,768 | 1,290 |
| 094 | 6,380 | | -0,500 | 6,380 |
| 099 | 7,270 | | 0,362 | 7,270 |
| 103 | 5,850 | | -1,049 | 5,850 |
| 107 | 8,700 | | 1,635 | 8,700 |
| 108 | 8,530 | | 1,484 | 8,530 |
| 109 | 7,080 | | 0,193 | 7,080 |
| 110 | 8,070 | | 1,074 | 8,070 |
| 111 | 5,710 | | -1,194 | 5,710 |
| 112 | 7,334 | | 0,419 | 7,334 |
| 115 | 8,430 | | 1,395 | 8,430 |
| 120 | 7,140 | | 0,246 | 7,140 |
| 131 | 6,360 | | -0,521 | 6,360 |
| 133 | 6,610 | | -0,262 | 6,610 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 7 **Sollwert:** 12,143 µg/L (empirischer Wert)
Merkmal: Tetrachlorethen **Rel. Soll-Stdabw.:** 14,17% (Limited)
Anzahl Labore in Berechnung: 44 **Toleranzbereich:** 8,912 - 15,865 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 004 | 12,800 | | 0,353 | 12,800 |
| 006 | 11,400 | | -0,460 | 11,400 |
| 007 | 12,700 | | 0,299 | 12,700 |
| 008 | 11,700 | | -0,274 | 11,700 |
| 009 | 12,800 | | 0,353 | 12,800 |
| 010 | 10,800 | | -0,831 | 10,800 |
| 012 | 13,240 | | 0,590 | 13,240 |
| 018 | 14,300 | | 1,159 | 14,300 |
| 019 | 12,600 | | 0,246 | 12,600 |
| 025 | 13,600 | | 0,783 | 13,600 |
| 029 | 11,500 | | -0,398 | 11,500 |
| 031 | 12,700 | | 0,299 | 12,700 |
| 035 | 13,700 | | 0,837 | 13,700 |
| 036 | 19,300 | | 3,846 | 19,300 |
| 038 | 15,300 | | 1,697 | 15,300 |
| 040 | 7,510 | | -2,868 | 7,510 |
| 043 | 11,117 | | -0,635 | 11,117 |
| 045 | 11,300 | | -0,522 | 11,300 |
| 046 | 11,800 | | -0,212 | 11,800 |
| 047 | 13,100 | | 0,514 | 13,100 |
| 049 | 11,200 | | -0,584 | 11,200 |
| 050 | 11,400 | | -0,460 | 11,400 |
| 052 | 10,380 | | -1,091 | 10,380 |
| 053 | 10,400 | | -1,079 | 10,400 |
| 061 | 12,540 | | 0,213 | 12,540 |
| 063 | 9,490 | | -1,642 | 9,490 |
| 064 | 12,500 | | 0,192 | 12,500 |
| 074 | 12,800 | | 0,353 | 12,800 |
| 079 | 12,958 | | 0,438 | 12,958 |
| 087 | 10,500 | | -1,017 | 10,500 |
| 088 | 10,000 | | -1,327 | 10,000 |
| 094 | 11,100 | | -0,646 | 11,100 |
| 099 | 11,700 | | -0,274 | 11,700 |
| 103 | 10,800 | | -0,831 | 10,800 |
| 107 | 14,900 | | 1,482 | 14,900 |
| 108 | 16,200 | | 2,180 | 16,200 |
| 109 | 10,300 | | -1,141 | 10,300 |
| 110 | 10,900 | | -0,769 | 10,900 |
| 111 | 13,400 | | 0,676 | 13,400 |
| 112 | 15,030 | | 1,552 | 15,030 |
| 115 | 11,800 | | -0,212 | 11,800 |
| 120 | 12,600 | | 0,246 | 12,600 |
| 131 | 13,100 | | 0,514 | 13,100 |
| 133 | 12,000 | | -0,088 | 12,000 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 7 **Sollwert:** 2,031 µg/L (empirischer Wert)
Merkmal: Trichlorethen **Rel. Soll-Stdabw.:** 14,18% (Limited)
Anzahl Labore in Berechnung: 44 **Toleranzbereich:** 1,491 - 2,654 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 004 | 1,830 | | -0,745 | 1,830 |
| 006 | 1,870 | | -0,597 | 1,870 |
| 007 | 2,020 | | -0,042 | 2,020 |
| 008 | 2,400 | | 1,184 | 2,400 |
| 009 | 2,090 | | 0,188 | 2,090 |
| 010 | 1,910 | | -0,449 | 1,910 |
| 012 | 2,180 | | 0,477 | 2,180 |
| 018 | 2,460 | | 1,376 | 2,460 |
| 019 | 2,100 | | 0,220 | 2,100 |
| 025 | 1,900 | | -0,486 | 1,900 |
| 029 | 1,830 | | -0,745 | 1,830 |
| 031 | 2,050 | | 0,060 | 2,050 |
| 035 | 2,130 | | 0,317 | 2,130 |
| 036 | 2,220 | | 0,606 | 2,220 |
| 038 | 2,200 | | 0,541 | 2,200 |
| 040 | 0,300 | | -6,405 | 0,300 |
| 043 | 1,674 | | -1,322 | 1,674 |
| 045 | 3,840 | | 5,807 | 3,840 |
| 046 | 1,950 | | -0,301 | 1,950 |
| 047 | 1,990 | | -0,153 | 1,990 |
| 049 | 1,780 | | -0,930 | 1,780 |
| 050 | 2,440 | | 1,312 | 2,440 |
| 052 | 1,300 | | -2,706 | 1,300 |
| 053 | 2,000 | | -0,116 | 2,000 |
| 061 | 2,040 | | 0,028 | 2,040 |
| 063 | 1,940 | | -0,338 | 1,940 |
| 064 | 2,150 | | 0,381 | 2,150 |
| 074 | 2,550 | | 1,665 | 2,550 |
| 079 | 2,050 | | 0,060 | 2,050 |
| 087 | 1,810 | | -0,819 | 1,810 |
| 088 | 1,450 | | -2,151 | 1,450 |
| 094 | 1,870 | | -0,597 | 1,870 |
| 099 | 2,090 | | 0,188 | 2,090 |
| 103 | 1,880 | | -0,560 | 1,880 |
| 107 | 2,300 | | 0,863 | 2,300 |
| 108 | 2,300 | | 0,863 | 2,300 |
| 109 | 2,130 | | 0,317 | 2,130 |
| 110 | 0,970 | | -3,926 | 0,970 |
| 111 | 1,600 | | -1,596 | 1,600 |
| 112 | 2,444 | | 1,325 | 2,444 |
| 115 | 2,100 | | 0,220 | 2,100 |
| 120 | 1,980 | | -0,190 | 1,980 |
| 131 | 2,180 | | 0,477 | 2,180 |
| 133 | 1,970 | | -0,227 | 1,970 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 7 **Sollwert:** 5,123 µg/L (empirischer Wert)
Merkmal: Trichlormethan **Rel. Soll-Stdabw.:** 9,92% (Limited)
Anzahl Labore in Berechnung: 45 **Toleranzbereich:** 4,152 - 6,196 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 004 | 5,210 | | 0,161 | 5,210 |
| 006 | 4,800 | | -0,666 | 4,800 |
| 007 | 4,650 | | -0,975 | 4,650 |
| 008 | 4,850 | | -0,563 | 4,850 |
| 009 | 5,310 | | 0,348 | 5,310 |
| 010 | 5,130 | | 0,012 | 5,130 |
| 012 | 5,330 | | 0,385 | 5,330 |
| 015 | 4,700 | | -0,872 | 4,700 |
| 018 | 5,670 | | 1,019 | 5,670 |
| 019 | 4,990 | | -0,275 | 4,990 |
| 025 | 5,200 | | 0,143 | 5,200 |
| 029 | 4,610 | | -1,057 | 4,610 |
| 031 | 4,990 | | -0,275 | 4,990 |
| 035 | 5,110 | | -0,028 | 5,110 |
| 036 | 5,770 | | 1,206 | 5,770 |
| 038 | 5,200 | | 0,143 | 5,200 |
| 040 | 4,780 | | -0,707 | 4,780 |
| 043 | 5,687 | | 1,051 | 5,687 |
| 045 | 4,210 | | -1,881 | 4,210 |
| 046 | 4,900 | | -0,460 | 4,900 |
| 047 | 5,550 | | 0,795 | 5,550 |
| 049 | 4,460 | | -1,366 | 4,460 |
| 050 | 5,100 | | -0,048 | 5,100 |
| 052 | 4,710 | | -0,851 | 4,710 |
| 053 | 4,870 | | -0,522 | 4,870 |
| 061 | 5,020 | | -0,213 | 5,020 |
| 063 | 6,340 | | 2,268 | 6,340 |
| 064 | 6,050 | | 1,728 | 6,050 |
| 074 | 5,720 | | 1,112 | 5,720 |
| 079 | 4,855 | | -0,553 | 4,855 |
| 087 | 3,540 | | -3,260 | 3,540 |
| 088 | 6,040 | | 1,709 | 6,040 |
| 094 | 4,670 | | -0,934 | 4,670 |
| 099 | 5,280 | | 0,292 | 5,280 |
| 103 | 4,870 | | -0,522 | 4,870 |
| 107 | 4,880 | | -0,501 | 4,880 |
| 108 | 6,520 | | 2,604 | 6,520 |
| 109 | 5,180 | | 0,105 | 5,180 |
| 110 | 5,480 | | 0,665 | 5,480 |
| 111 | 4,140 | | -2,025 | 4,140 |
| 112 | 5,708 | | 1,090 | 5,708 |
| 115 | 5,330 | | 0,385 | 5,330 |
| 120 | 5,370 | | 0,460 | 5,370 |
| 131 | 4,840 | | -0,584 | 4,840 |
| 133 | 5,090 | | -0,069 | 5,090 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 7 **Sollwert:** 9,328 µg/L (empirischer Wert)
Merkmal: Bromdichlormethan **Rel. Soll-Stdabw.:** 11,08% (Limited)
Anzahl Labore in Berechnung: 45 **Toleranzbereich:** 7,362 - 11,523 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 004 | 8,930 | | -0,405 | 8,930 |
| 006 | 8,620 | | -0,720 | 8,620 |
| 007 | 7,890 | | -1,463 | 7,890 |
| 008 | 8,850 | | -0,486 | 8,850 |
| 009 | 9,460 | | 0,121 | 9,460 |
| 010 | 9,850 | | 0,476 | 9,850 |
| 012 | 9,270 | | -0,059 | 9,270 |
| 015 | 10,290 | | 0,877 | 10,290 |
| 018 | 10,000 | | 0,613 | 10,000 |
| 019 | 9,240 | | -0,089 | 9,240 |
| 025 | 9,800 | | 0,430 | 9,800 |
| 029 | 10,100 | | 0,704 | 10,100 |
| 031 | 9,490 | | 0,148 | 9,490 |
| 035 | 9,840 | | 0,467 | 9,840 |
| 036 | 10,400 | | 0,977 | 10,400 |
| 038 | 9,820 | | 0,449 | 9,820 |
| 040 | 8,710 | | -0,629 | 8,710 |
| 043 | 9,910 | | 0,531 | 9,910 |
| 045 | 6,980 | | -2,389 | 6,980 |
| 046 | 9,460 | | 0,121 | 9,460 |
| 047 | 9,410 | | 0,075 | 9,410 |
| 049 | 8,380 | | -0,964 | 8,380 |
| 050 | 9,160 | | -0,171 | 9,160 |
| 052 | 8,780 | | -0,557 | 8,780 |
| 053 | 7,000 | | -2,369 | 7,000 |
| 061 | 9,080 | | -0,252 | 9,080 |
| 063 | 7,720 | | -1,636 | 7,720 |
| 064 | 8,940 | | -0,394 | 8,940 |
| 074 | 10,600 | | 1,159 | 10,600 |
| 079 | 9,265 | | -0,064 | 9,265 |
| 087 | 7,760 | | -1,595 | 7,760 |
| 088 | 12,700 | | 3,072 | 12,700 |
| 094 | 8,740 | | -0,598 | 8,740 |
| 099 | 10,150 | | 0,749 | 10,150 |
| 103 | 9,380 | | 0,048 | 9,380 |
| 107 | 11,600 | | 2,070 | 11,600 |
| 108 | 9,780 | | 0,412 | 9,780 |
| 109 | 9,610 | | 0,257 | 9,610 |
| 110 | 11,200 | | 1,706 | 11,200 |
| 111 | 7,670 | | -1,687 | 7,670 |
| 112 | 11,400 | | 1,888 | 11,400 |
| 115 | 9,760 | | 0,394 | 9,760 |
| 120 | 9,410 | | 0,075 | 9,410 |
| 131 | 8,570 | | -0,771 | 8,570 |
| 133 | 8,670 | | -0,669 | 8,670 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 7 **Sollwert:** 12,633 µg/L (empirischer Wert)
Merkmal: Dibromchlormethan **Rel. Soll-Stdabw.:** 11,75% (Limited)
Anzahl Labore in Berechnung: 45 **Toleranzbereich:** 9,820 - 15,796 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 004 | 12,600 | | -0,023 | 12,600 |
| 006 | 11,400 | | -0,876 | 11,400 |
| 007 | 9,860 | | -1,971 | 9,860 |
| 008 | 13,050 | | 0,264 | 13,050 |
| 009 | 12,900 | | 0,169 | 12,900 |
| 010 | 13,400 | | 0,485 | 13,400 |
| 012 | 12,070 | | -0,400 | 12,070 |
| 015 | 13,410 | | 0,492 | 13,410 |
| 018 | 12,600 | | -0,023 | 12,600 |
| 019 | 13,300 | | 0,422 | 13,300 |
| 025 | 13,200 | | 0,359 | 13,200 |
| 029 | 13,600 | | 0,612 | 13,600 |
| 031 | 13,000 | | 0,232 | 13,000 |
| 035 | 13,250 | | 0,390 | 13,250 |
| 036 | 15,700 | | 1,940 | 15,700 |
| 038 | 12,800 | | 0,106 | 12,800 |
| 040 | 12,200 | | -0,308 | 12,200 |
| 043 | 10,948 | | -1,198 | 10,948 |
| 045 | 13,600 | | 0,612 | 13,600 |
| 046 | 12,800 | | 0,106 | 12,800 |
| 047 | 12,800 | | 0,106 | 12,800 |
| 049 | 11,800 | | -0,592 | 11,800 |
| 050 | 12,100 | | -0,379 | 12,100 |
| 052 | 11,640 | | -0,706 | 11,640 |
| 053 | 8,280 | | -3,095 | 8,280 |
| 061 | 12,070 | | -0,400 | 12,070 |
| 063 | 11,700 | | -0,663 | 11,700 |
| 064 | 11,400 | | -0,876 | 11,400 |
| 074 | 15,000 | | 1,497 | 15,000 |
| 079 | 11,350 | | -0,912 | 11,350 |
| 087 | 18,800 | | 3,900 | 18,800 |
| 088 | 18,500 | | 3,710 | 18,500 |
| 094 | 11,700 | | -0,663 | 11,700 |
| 099 | 12,430 | | -0,144 | 12,430 |
| 103 | 11,800 | | -0,592 | 11,800 |
| 107 | 16,400 | | 2,382 | 16,400 |
| 108 | 15,000 | | 1,497 | 15,000 |
| 109 | 12,500 | | -0,094 | 12,500 |
| 110 | 15,800 | | 2,003 | 15,800 |
| 111 | 10,500 | | -1,516 | 10,500 |
| 112 | 15,960 | | 2,104 | 15,960 |
| 115 | 12,200 | | -0,308 | 12,200 |
| 120 | 13,000 | | 0,232 | 13,000 |
| 131 | 11,700 | | -0,663 | 11,700 |
| 133 | 11,100 | | -1,090 | 11,100 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 7 **Sollwert:** 13,451 µg/L (empirischer Wert)
Merkmal: Tribrommethan **Rel. Soll-Stdabw.:** 14,46% (Limited)
Anzahl Labore in Berechnung: 45 **Toleranzbereich:** 9,804 - 17,664 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 004 | 13,300 | | -0,083 | 13,300 |
| 006 | 12,600 | | -0,467 | 12,600 |
| 007 | 10,200 | | -1,783 | 10,200 |
| 008 | 14,200 | | 0,356 | 14,200 |
| 009 | 13,500 | | 0,023 | 13,500 |
| 010 | 12,900 | | -0,302 | 12,900 |
| 012 | 12,940 | | -0,280 | 12,940 |
| 015 | 15,090 | | 0,778 | 15,090 |
| 018 | 13,200 | | -0,138 | 13,200 |
| 019 | 15,000 | | 0,735 | 15,000 |
| 025 | 14,400 | | 0,451 | 14,400 |
| 029 | 14,800 | | 0,641 | 14,800 |
| 031 | 13,800 | | 0,166 | 13,800 |
| 035 | 13,580 | | 0,061 | 13,580 |
| 036 | 17,100 | | 1,732 | 17,100 |
| 038 | 13,000 | | -0,247 | 13,000 |
| 040 | 8,830 | | -2,534 | 8,830 |
| 043 | 11,088 | | -1,296 | 11,088 |
| 045 | 10,100 | | -1,838 | 10,100 |
| 046 | 14,000 | | 0,261 | 14,000 |
| 047 | 13,900 | | 0,213 | 13,900 |
| 049 | 12,900 | | -0,302 | 12,900 |
| 050 | 13,500 | | 0,023 | 13,500 |
| 052 | 11,040 | | -1,322 | 11,040 |
| 053 | 8,530 | | -2,699 | 8,530 |
| 061 | 13,090 | | -0,198 | 13,090 |
| 063 | 13,900 | | 0,213 | 13,900 |
| 064 | 10,400 | | -1,673 | 10,400 |
| 074 | 16,200 | | 1,305 | 16,200 |
| 079 | 13,120 | | -0,181 | 13,120 |
| 087 | 12,100 | | -0,741 | 12,100 |
| 088 | 20,500 | | 3,347 | 20,500 |
| 094 | 13,000 | | -0,247 | 13,000 |
| 099 | 16,280 | | 1,343 | 16,280 |
| 103 | 13,000 | | -0,247 | 13,000 |
| 107 | 18,600 | | 2,445 | 18,600 |
| 108 | 17,900 | | 2,112 | 17,900 |
| 109 | 12,900 | | -0,302 | 12,900 |
| 110 | 18,400 | | 2,350 | 18,400 |
| 111 | 11,500 | | -1,070 | 11,500 |
| 112 | 17,250 | | 1,804 | 17,250 |
| 115 | 12,900 | | -0,302 | 12,900 |
| 120 | 14,600 | | 0,546 | 14,600 |
| 131 | 12,200 | | -0,686 | 12,200 |
| 133 | 12,100 | | -0,741 | 12,100 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 7 **Sollwert:** 6,466 µg/L (empirischer Wert)
Merkmal: Benzol **Rel. Soll-Stdabw.:** 11,56% (Limited)
Anzahl Labore in Berechnung: 44 **Toleranzbereich:** 5,048 - 8,057 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 004 | 6,490 | | 0,031 | 6,490 |
| 006 | 5,860 | | -0,854 | 5,860 |
| 007 | 6,260 | | -0,290 | 6,260 |
| 008 | 6,950 | | 0,609 | 6,950 |
| 009 | 7,190 | | 0,910 | 7,190 |
| 010 | 6,630 | | 0,207 | 6,630 |
| 012 | 6,880 | | 0,521 | 6,880 |
| 018 | 9,330 | | 3,600 | 9,330 |
| 019 | 6,170 | | -0,417 | 6,170 |
| 025 | 6,800 | | 0,420 | 6,800 |
| 029 | 5,830 | | -0,896 | 5,830 |
| 031 | 6,530 | | 0,081 | 6,530 |
| 035 | 6,120 | | -0,487 | 6,120 |
| 036 | 6,840 | | 0,471 | 6,840 |
| 038 | 6,790 | | 0,408 | 6,790 |
| 040 | 5,460 | | -1,418 | 5,460 |
| 043 | 6,838 | | 0,468 | 6,838 |
| 045 | 5,670 | | -1,122 | 5,670 |
| 046 | 6,020 | | -0,628 | 6,020 |
| 047 | 7,170 | | 0,885 | 7,170 |
| 049 | 5,690 | | -1,094 | 5,690 |
| 050 | 5,800 | | -0,939 | 5,800 |
| 052 | 5,790 | | -0,953 | 5,790 |
| 053 | 4,700 | | -2,490 | 4,700 |
| 061 | 6,730 | | 0,332 | 6,730 |
| 063 | 6,600 | | 0,169 | 6,600 |
| 064 | 7,380 | | 1,149 | 7,380 |
| 074 | 5,510 | | -1,348 | 5,510 |
| 079 | 7,765 | | 1,633 | 7,765 |
| 087 | 5,980 | | -0,685 | 5,980 |
| 088 | 6,080 | | -0,544 | 6,080 |
| 094 | 6,060 | | -0,572 | 6,060 |
| 099 | 7,010 | | 0,684 | 7,010 |
| 103 | 6,290 | | -0,248 | 6,290 |
| 107 | 5,550 | | -1,291 | 5,550 |
| 108 | 8,670 | | 2,770 | 8,670 |
| 109 | 6,640 | | 0,219 | 6,640 |
| 110 | 6,490 | | 0,031 | 6,490 |
| 111 | 6,760 | | 0,370 | 6,760 |
| 112 | 7,476 | | 1,270 | 7,476 |
| 115 | 6,500 | | 0,043 | 6,500 |
| 120 | 6,060 | | -0,572 | 6,060 |
| 131 | 6,520 | | 0,068 | 6,520 |
| 133 | 8,140 | | 2,104 | 8,140 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 7 **Sollwert:** 2,843 µg/L (empirischer Wert)
Merkmal: Vinylchlorid **Rel. Soll-Stdabw.:** 25,00% (Limited)
Anzahl Labore in Berechnung: 30 **Toleranzbereich:** 1,558 - 4,492 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 004 | 2,850 | | 0,009 | 2,850 |
| 006 | 2,960 | | 0,142 | 2,960 |
| 007 | 2,730 | | -0,175 | 2,730 |
| 008 | 2,850 | | 0,009 | 2,850 |
| 009 | 2,210 | | -0,985 | 2,210 |
| 010 | 3,480 | | 0,773 | 3,480 |
| 012 | 3,810 | | 1,173 | 3,810 |
| 018 | 2,430 | | -0,643 | 2,430 |
| 025 | 2,550 | | -0,456 | 2,550 |
| 031 | 2,120 | | -1,125 | 2,120 |
| 038 | 3,060 | | 0,264 | 3,060 |
| 040 | 1,320 | | -2,371 | 1,320 |
| 043 | 4,474 | | 1,979 | 4,474 |
| 046 | 2,710 | | -0,207 | 2,710 |
| 047 | 3,600 | | 0,919 | 3,600 |
| 049 | 3,380 | | 0,652 | 3,380 |
| 050 | 10,200 | | 8,924 | 10,200 |
| 052 | 2,510 | | -0,518 | 2,510 |
| 063 | 5,810 | | 3,599 | 5,810 |
| 064 | 3,120 | | 0,336 | 3,120 |
| 079 | 2,275 | | -0,884 | 2,275 |
| 087 | 2,350 | | -0,767 | 2,350 |
| 088 | 0,160 | | -4,178 | 0,160 |
| 099 | 2,620 | | -0,347 | 2,620 |
| 103 | 1,070 | | -2,760 | 1,070 |
| 108 | 4,110 | | 1,537 | 4,110 |
| 110 | 1,930 | | -1,421 | 1,930 |
| 112 | 4,449 | | 1,948 | 4,449 |
| 120 | 3,340 | | 0,603 | 3,340 |
| 133 | 2,380 | | -0,720 | 2,380 |



PROLab

Probe 8

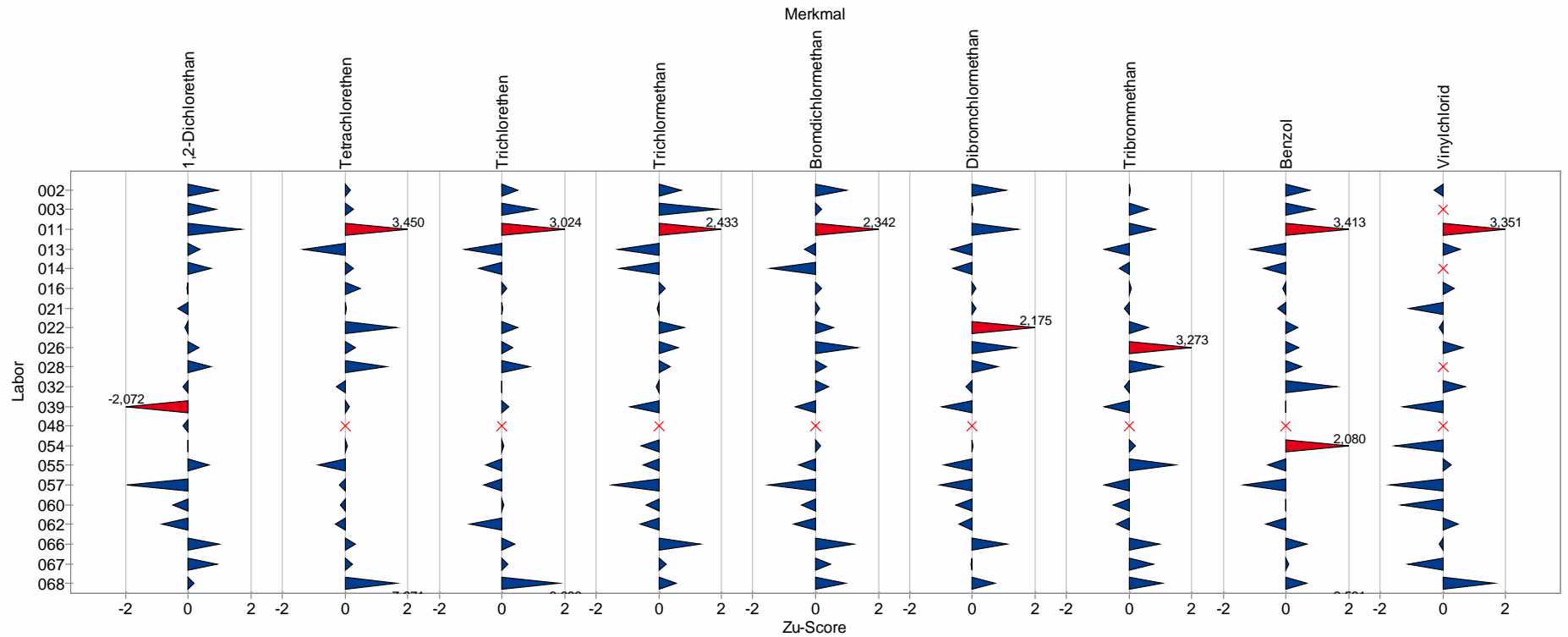
Kennwerte – Probe 8

Tabelle

| Probe 8 | Einheit | Anzahl der Labore | Sollwert | Soll-Stdabw. | Vergleich-Stdabw. | Rel. Soll-Stdabw. | Rel. Vergleich-Stdabw. | unt. Toleranzgr. | ob. Toleranzgr. | Messunsicherheit MU |
|-------------------|---------|-------------------|----------|--------------|-------------------|-------------------|------------------------|------------------|-----------------|---------------------|
| 1,2-Dichlorethan | µg/L | 42 | 8,736 | 1,139 | 1,139 | 13,04 % | 13,04 % | 6,587 | 11,183 | 2,52 % |
| Tetrachlorethen | µg/L | 41 | 9,102 | 1,647 | 1,647 | 18,10 % | 18,10 % | 6,055 | 12,754 | 3,53 % |
| Trichlorethen | µg/L | 41 | 2,785 | 0,543 | 0,543 | 19,49 % | 19,49 % | 1,786 | 3,998 | 3,80 % |
| Trichlormethan | µg/L | 41 | 3,408 | 0,535 | 0,535 | 15,70 % | 15,70 % | 2,409 | 4,577 | 3,07 % |
| Bromdichlormethan | µg/L | 41 | 5,607 | 0,729 | 0,729 | 13,00 % | 13,00 % | 4,233 | 7,172 | 2,54 % |
| Dibromchlormethan | µg/L | 41 | 14,472 | 1,935 | 1,935 | 13,37 % | 13,37 % | 10,828 | 18,637 | 2,61 % |
| Tribrommethan | µg/L | 41 | 15,527 | 2,170 | 2,170 | 13,98 % | 13,98 % | 11,449 | 20,216 | 2,73 % |
| Benzol | µg/L | 41 | 4,839 | 0,706 | 0,706 | 14,58 % | 14,58 % | 3,516 | 6,369 | 2,85 % |
| Vinylchlorid | µg/L | 31 | 3,961 | 0,990 | 1,295 | 25,00 % | 32,69 % | 2,171 | 6,258 | 7,34 % |

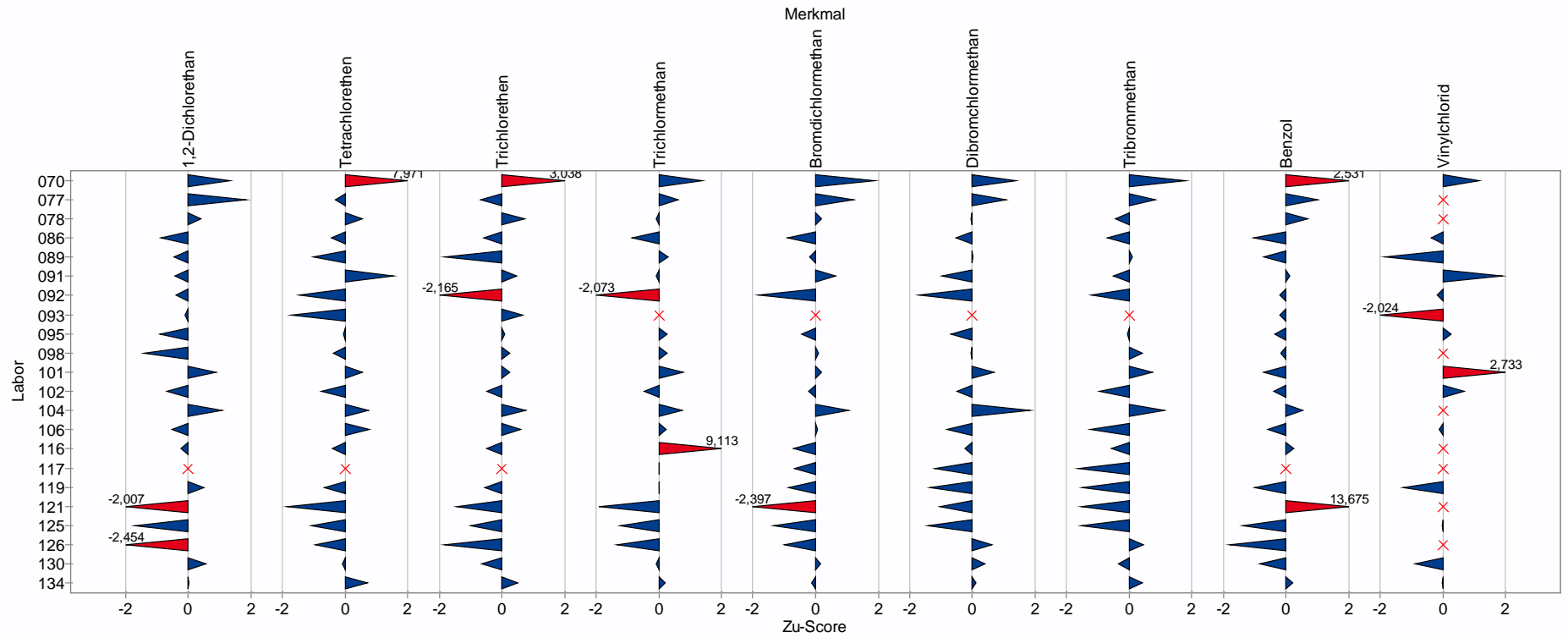
Übersicht z_U-Scores

Graphik 8a: z_U-scores Probe8, Teil 1



PROLab

Graphik 8b: z_U-scores Probe8, Teil 2



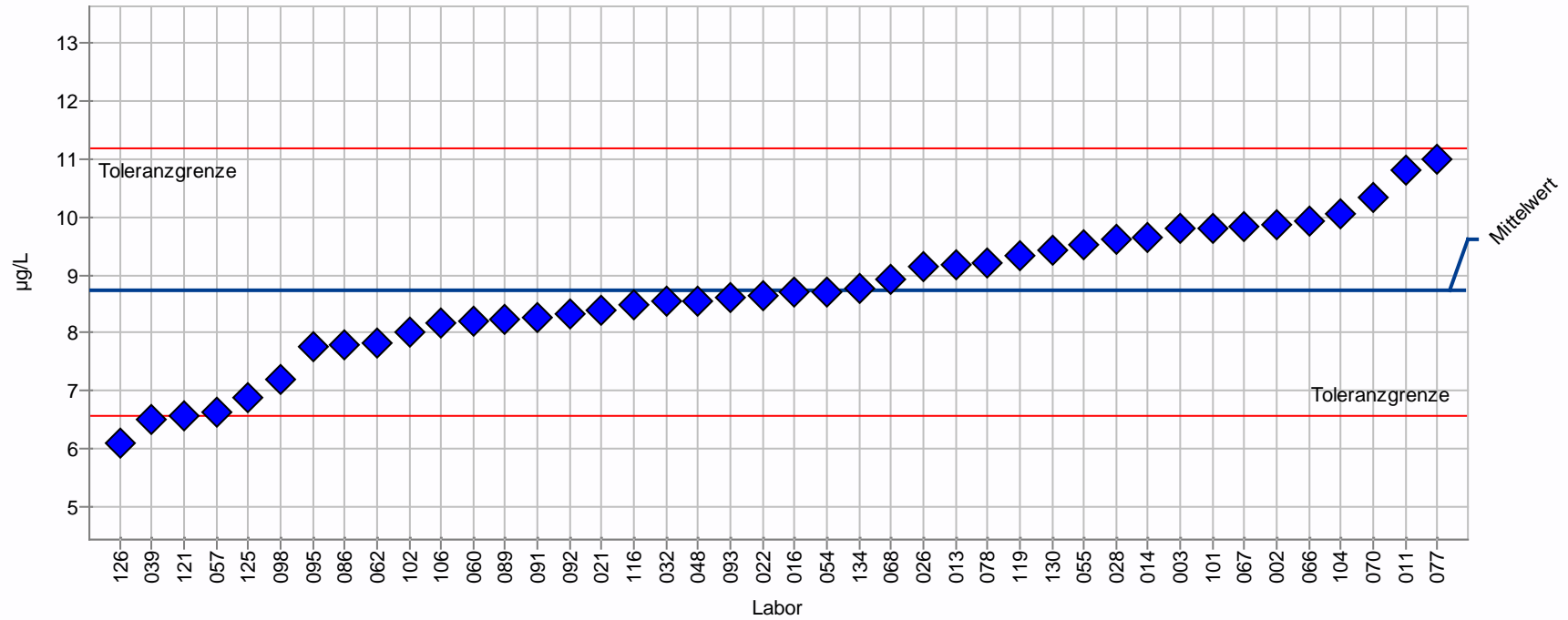
PROLab

Einzeldarstellung der Parameter

Grafik und Tabelle

Abbildung 64: Mittelwerte + Stdabw. für Niveau 8, 1,2-Dichlorethan

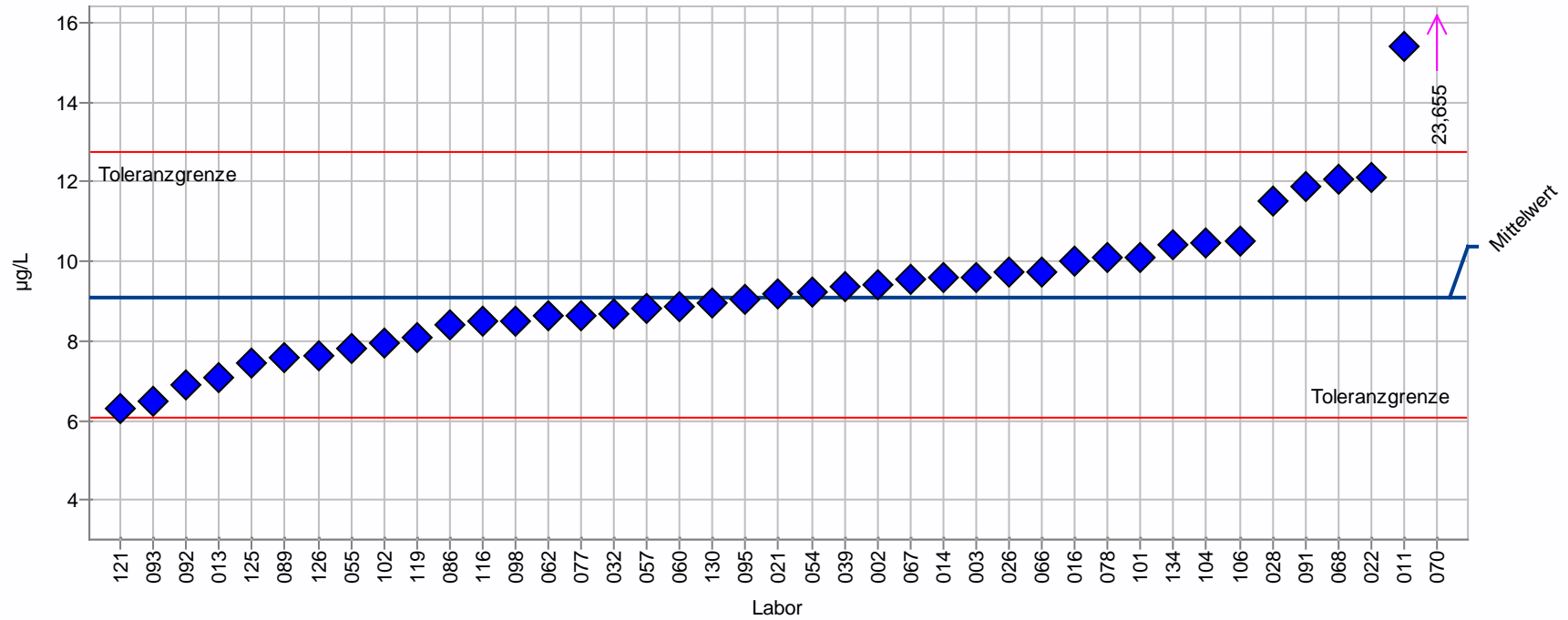
Probe: Niveau 8 Sollwert: 8,736 µg/L (empirischer Wert)
 Merkmal: 1,2-Dichlorethan Rel. Soll-Stdabw.: 13,04% (Limited)
 Anzahl Labore in Berechnung: 42 Toleranzbereich: 6,587 - 11,183 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 65: Mittelwerte + Stdabw. für Niveau 8, Tetrachlorethen

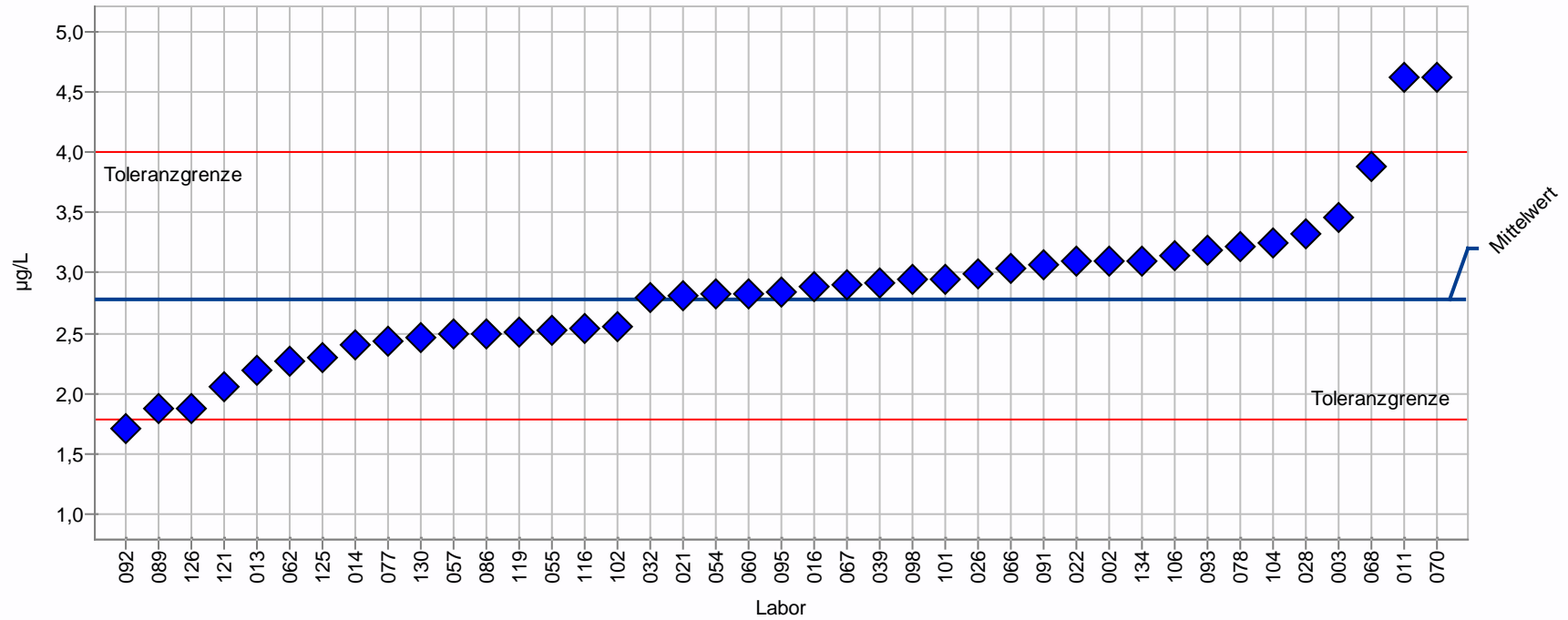
Probe: Niveau 8 Sollwert: 9,102 µg/L (empirischer Wert)
 Merkmal: Tetrachlorethen Rel. Soll-Stdabw.: 18,10% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 6,055 - 12,754 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 66: Mittelwerte + Stdabw. für Niveau 8, Trichlorethen

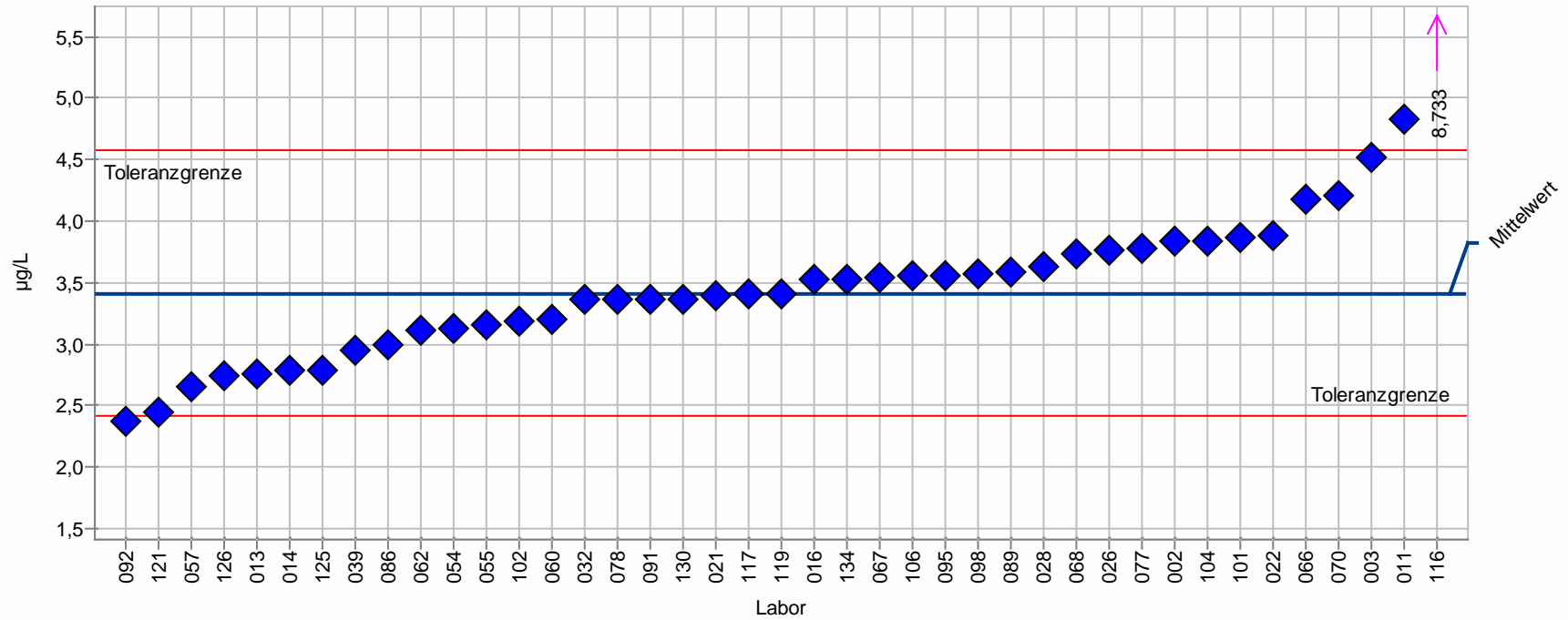
Probe: Niveau 8 Sollwert: 2,785 µg/L (empirischer Wert)
 Merkmal: Trichlorethen Rel. Soll-Stdabw.: 19,49% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 1,786 - 3,998 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 67: Mittelwerte + Stdabw. für Niveau 8, Trichlormethan

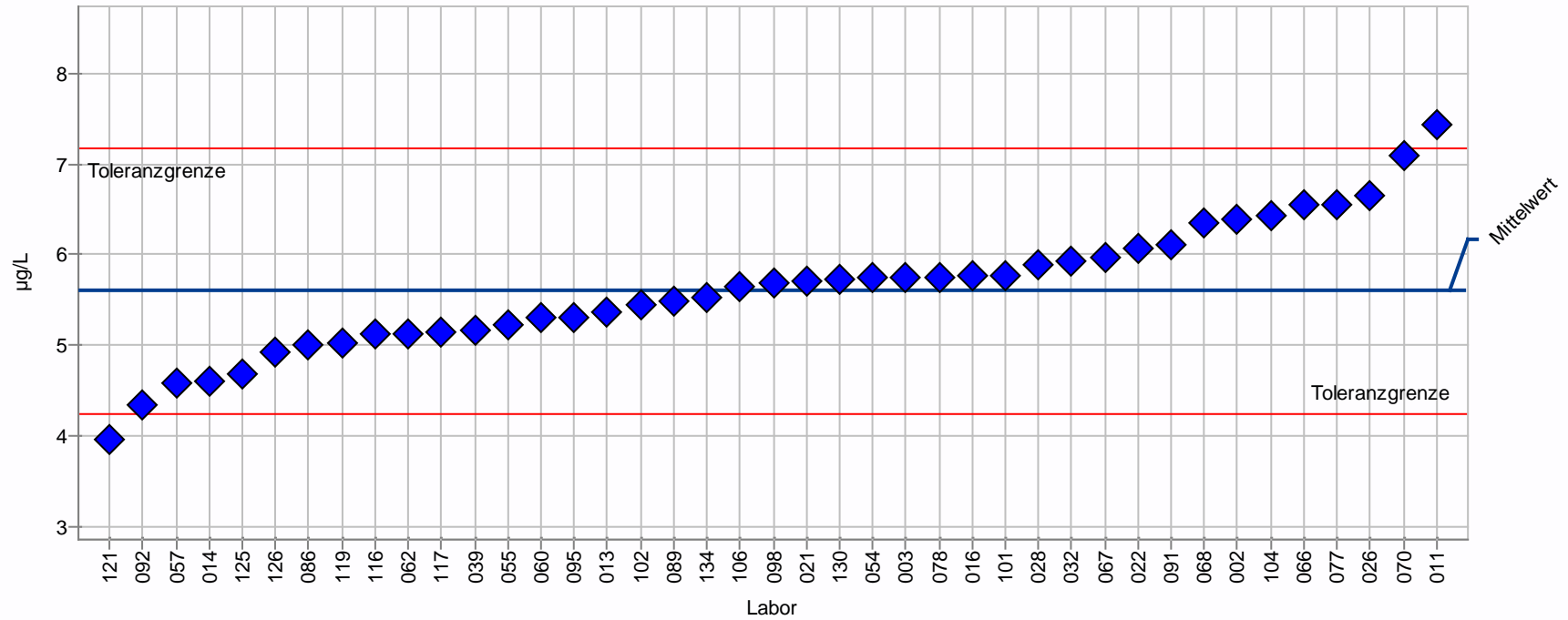
Probe: Niveau 8 Sollwert: 3,408 µg/L (empirischer Wert)
 Merkmal: Trichlormethan Rel. Soll-Stdabw.: 15,70% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 2,409 - 4,577 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 68: Mittelwerte + Stdabw. für Niveau 8, Bromdichlormethan

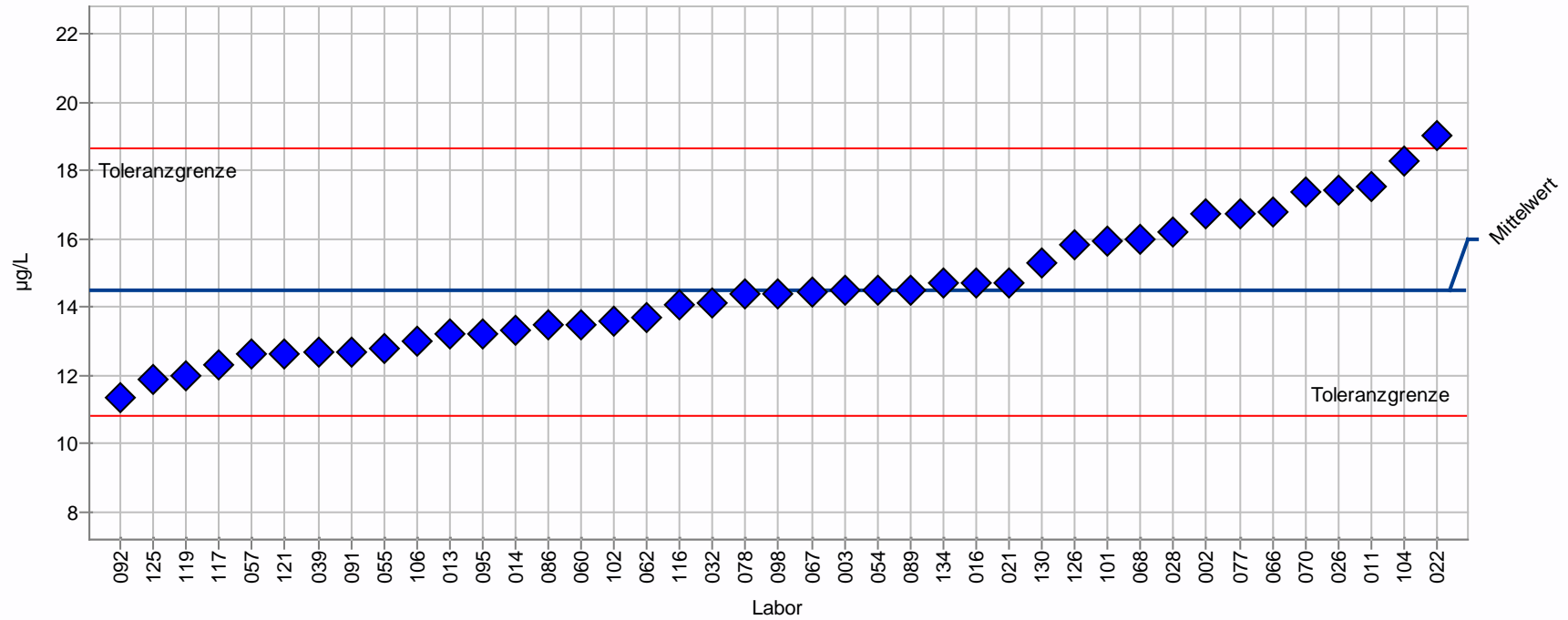
Probe: Niveau 8 Sollwert: 5,607 µg/L (empirischer Wert)
 Merkmal: Bromdichlormethan Rel. Soll-Stdabw.: 13,00% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 4,233 - 7,172 µg/L (|Zu-Score| ≤ 2,000)



PROLab

Abbildung 69: Mittelwerte + Stdabw. für Niveau 8, Dibromchlormethan

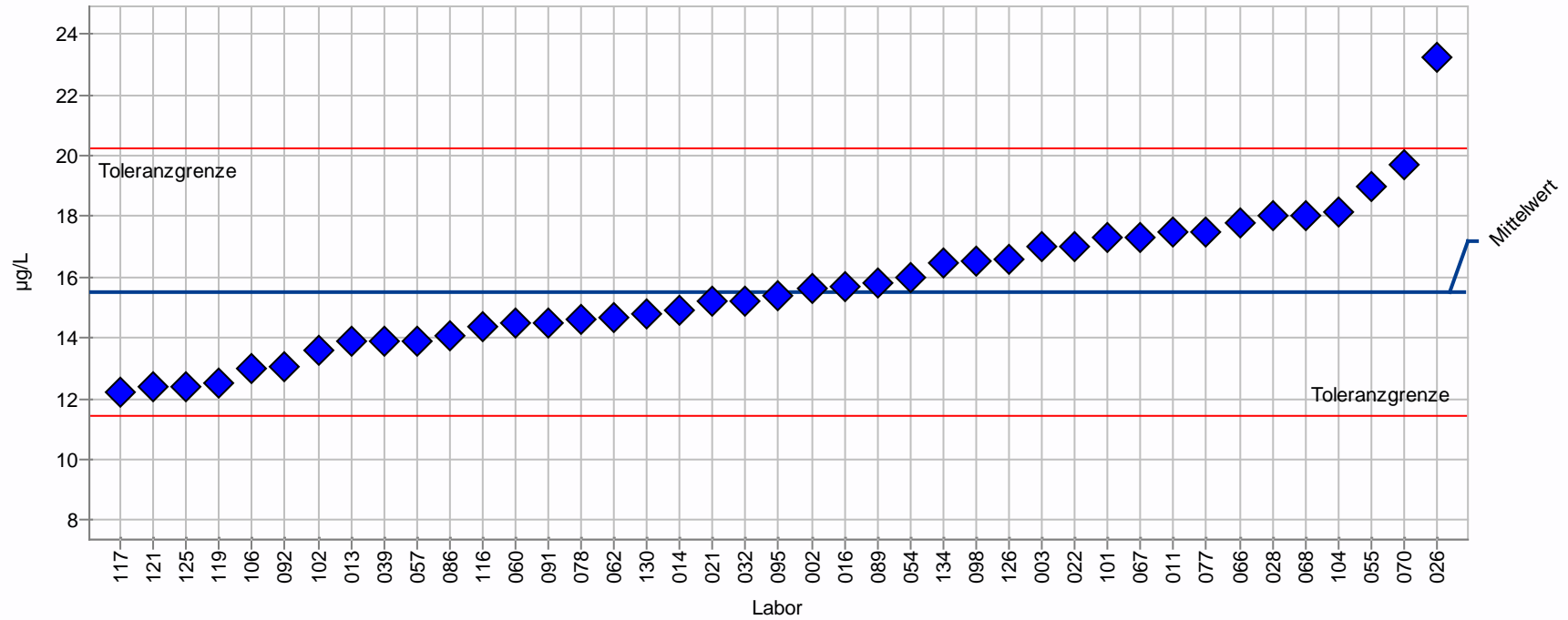
Probe: Niveau 8 Sollwert: 14,472 µg/L (empirischer Wert)
 Merkmal: Dibromchlormethan Rel. Soll-Stdabw.: 13,37% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 10,828 - 18,637 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 70: Mittelwerte + Stdabw. für Niveau 8, Tribrommethan

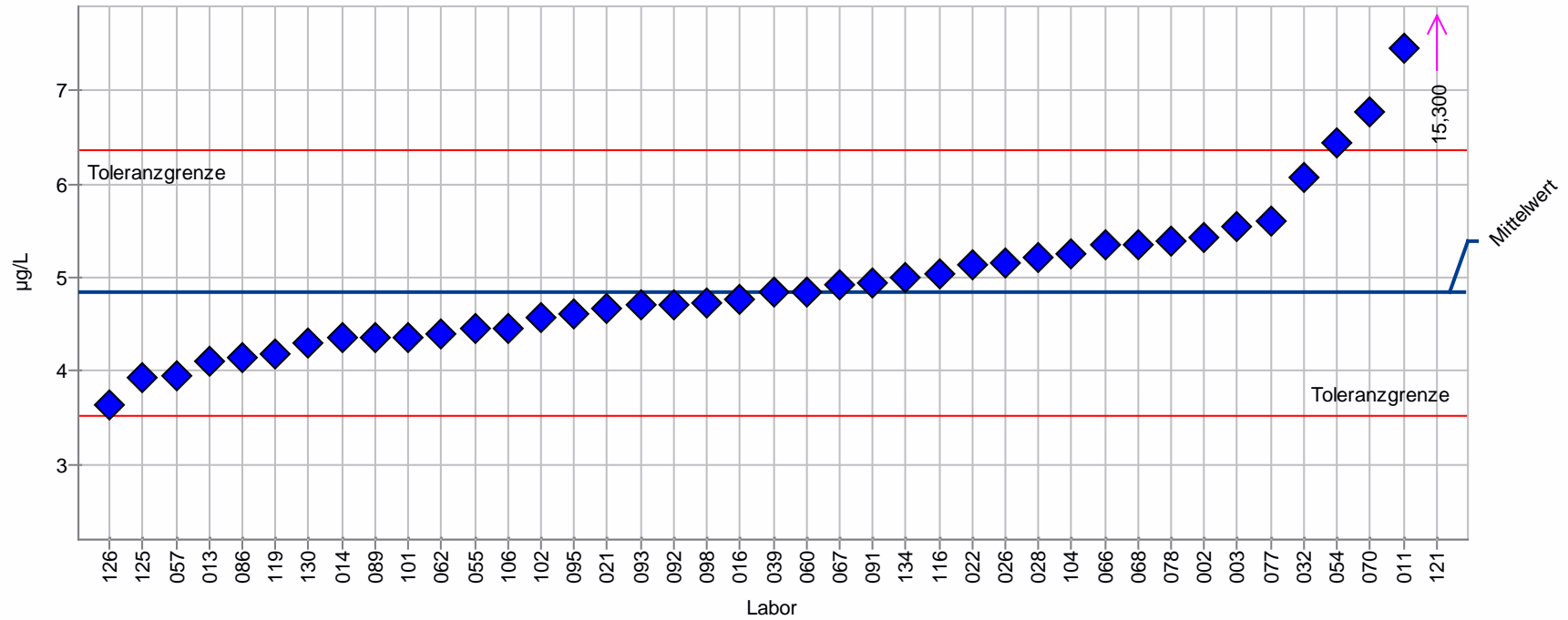
Probe: Niveau 8 Sollwert: 15,527 µg/L (empirischer Wert)
 Merkmal: Tribrommethan Rel. Soll-Stdabw.: 13,98% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 11,449 - 20,216 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 71: Mittelwerte + Stdabw. für Niveau 8, Benzol

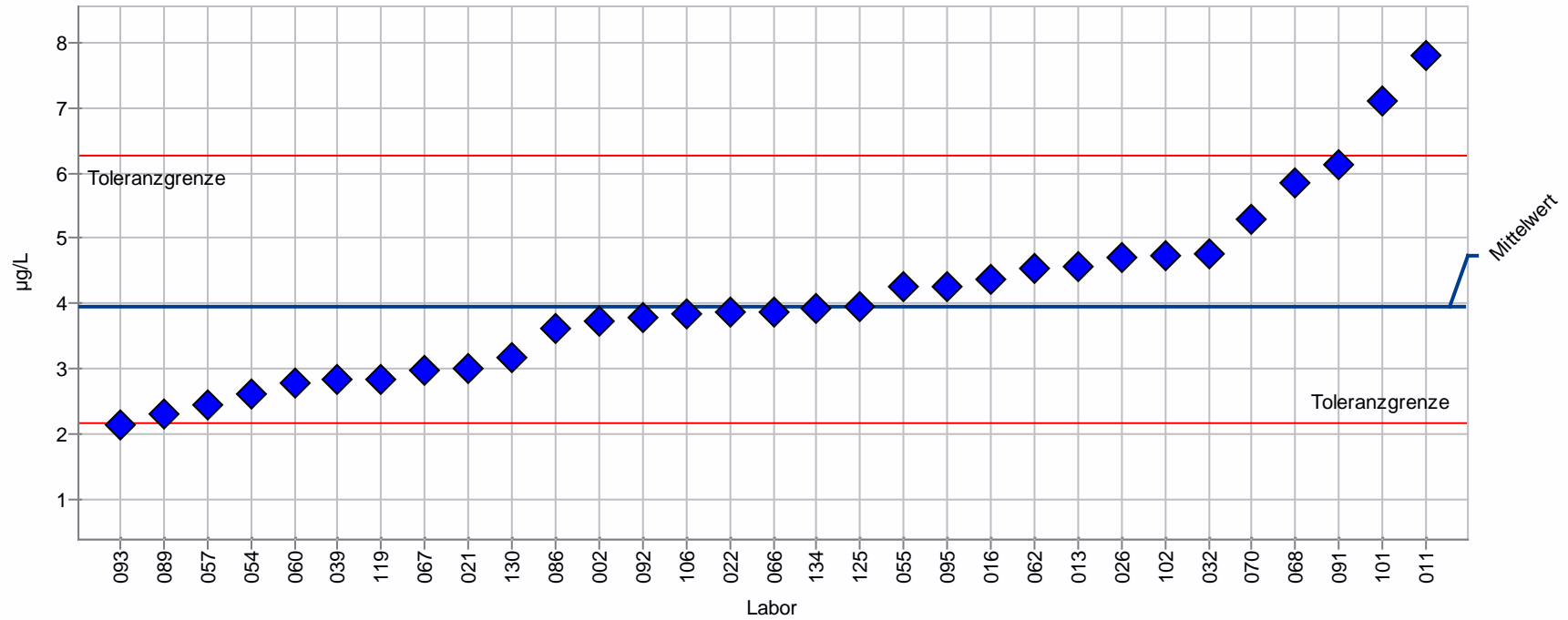
Probe: Niveau 8 Sollwert: 4,839 µg/L (empirischer Wert)
 Merkmal: Benzol Rel. Soll-Stdabw.: 14,58% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 3,516 - 6,369 µg/L ($|Z\text{-Score}| \leq 2,000$)



PROLab

Abbildung 72: Mittelwerte + Stdabw. für Niveau 8, Vinylchlorid

Probe: Niveau 8 Sollwert: 3,961 µg/L (empirischer Wert)
 Merkmal: Vinylchlorid Rel. Soll-Stdabw.: 25,00% (Limited)
 Anzahl Labore in Berechnung: 31 Toleranzbereich: 2,171 - 6,258 µg/L ($|Zu\text{-Score}| \leq 2,000$)



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 8 **Sollwert:** 8,736 µg/L (empirischer Wert)
Merkmal: 1,2-Dichlorethan **Rel. Soll-Stdabw.:** 13,04% (Limited)
Anzahl Labore in Berechnung: 42 **Toleranzbereich:** 6,587 - 11,183 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 9,880 | | 0,935 | 9,880 |
| 003 | 9,800 | | 0,870 | 9,800 |
| 011 | 10,800 | | 1,687 | 10,800 |
| 013 | 9,190 | | 0,371 | 9,190 |
| 014 | 9,640 | | 0,739 | 9,640 |
| 016 | 8,700 | | -0,033 | 8,700 |
| 021 | 8,380 | | -0,331 | 8,380 |
| 022 | 8,630 | | -0,098 | 8,630 |
| 026 | 9,150 | | 0,339 | 9,150 |
| 028 | 9,610 | | 0,714 | 9,610 |
| 032 | 8,540 | | -0,182 | 8,540 |
| 039 | 6,510 | | -2,072 | 6,510 |
| 048 | 8,550 | | -0,173 | 8,550 |
| 054 | 8,720 | | -0,015 | 8,720 |
| 055 | 9,530 | | 0,649 | 9,530 |
| 057 | 6,620 | | -1,970 | 6,620 |
| 060 | 8,200 | | -0,499 | 8,200 |
| 062 | 7,840 | | -0,834 | 7,840 |
| 066 | 9,940 | | 0,984 | 9,940 |
| 067 | 9,844 | | 0,906 | 9,844 |
| 068 | 8,940 | | 0,167 | 8,940 |
| 070 | 10,348 | | 1,318 | 10,348 |
| 077 | 11,000 | | 1,850 | 11,000 |
| 078 | 9,220 | | 0,396 | 9,220 |
| 086 | 7,800 | | -0,871 | 7,800 |
| 089 | 8,240 | | -0,462 | 8,240 |
| 091 | 8,270 | | -0,434 | 8,270 |
| 092 | 8,325 | | -0,382 | 8,325 |
| 093 | 8,610 | | -0,117 | 8,610 |
| 095 | 7,770 | | -0,899 | 7,770 |
| 098 | 7,210 | | -1,420 | 7,210 |
| 101 | 9,810 | | 0,878 | 9,810 |
| 102 | 8,000 | | -0,685 | 8,000 |
| 104 | 10,040 | | 1,066 | 10,040 |
| 106 | 8,160 | | -0,536 | 8,160 |
| 116 | 8,470 | | -0,247 | 8,470 |
| 119 | 9,330 | | 0,486 | 9,330 |
| 121 | 6,580 | | -2,007 | 6,580 |
| 125 | 6,890 | | -1,718 | 6,890 |
| 126 | 6,100 | | -2,454 | 6,100 |
| 130 | 9,430 | | 0,567 | 9,430 |
| 134 | 8,760 | | 0,020 | 8,760 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 8 **Sollwert:** 9,102 µg/L (empirischer Wert)
Merkmal: Tetrachlorethen **Rel. Soll-Stdabw.:** 18,10% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 6,055 - 12,754 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 9,430 | | 0,180 | 9,430 |
| 003 | 9,590 | | 0,267 | 9,590 |
| 011 | 15,400 | | 3,450 | 15,400 |
| 013 | 7,060 | | -1,340 | 7,060 |
| 014 | 9,580 | | 0,262 | 9,580 |
| 016 | 10,000 | | 0,492 | 10,000 |
| 021 | 9,190 | | 0,048 | 9,190 |
| 022 | 12,100 | | 1,642 | 12,100 |
| 026 | 9,720 | | 0,338 | 9,720 |
| 028 | 11,500 | | 1,313 | 11,500 |
| 032 | 8,670 | | -0,284 | 8,670 |
| 039 | 9,350 | | 0,136 | 9,350 |
| 054 | 9,240 | | 0,075 | 9,240 |
| 055 | 7,790 | | -0,861 | 7,790 |
| 057 | 8,830 | | -0,179 | 8,830 |
| 060 | 8,880 | | -0,146 | 8,880 |
| 062 | 8,610 | | -0,323 | 8,610 |
| 066 | 9,720 | | 0,338 | 9,720 |
| 067 | 9,538 | | 0,239 | 9,538 |
| 068 | 12,070 | | 1,626 | 12,070 |
| 070 | 23,655 | | 7,971 | 23,655 |
| 077 | 8,640 | | -0,303 | 8,640 |
| 078 | 10,100 | | 0,547 | 10,100 |
| 086 | 8,420 | | -0,448 | 8,420 |
| 089 | 7,580 | | -0,999 | 7,580 |
| 091 | 11,900 | | 1,532 | 11,900 |
| 092 | 6,873 | | -1,463 | 6,873 |
| 093 | 6,480 | | -1,721 | 6,480 |
| 095 | 9,030 | | -0,047 | 9,030 |
| 098 | 8,510 | | -0,389 | 8,510 |
| 101 | 10,100 | | 0,547 | 10,100 |
| 102 | 7,940 | | -0,763 | 7,940 |
| 104 | 10,480 | | 0,755 | 10,480 |
| 106 | 10,500 | | 0,766 | 10,500 |
| 116 | 8,490 | | -0,402 | 8,490 |
| 119 | 8,100 | | -0,658 | 8,100 |
| 121 | 6,300 | | -1,839 | 6,300 |
| 125 | 7,440 | | -1,091 | 7,440 |
| 126 | 7,630 | | -0,966 | 7,630 |
| 130 | 8,950 | | -0,100 | 8,950 |
| 134 | 10,410 | | 0,716 | 10,410 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 8 **Sollwert:** 2,785 µg/L (empirischer Wert)
Merkmal: Trichlorethen **Rel. Soll-Stdabw.:** 19,49% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 1,786 - 3,998 µg/L (|Zu-Score| ≤ 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 3,100 | | 0,520 | 3,100 |
| 003 | 3,460 | | 1,113 | 3,460 |
| 011 | 4,620 | | 3,024 | 4,620 |
| 013 | 2,190 | | -1,190 | 2,190 |
| 014 | 2,410 | | -0,750 | 2,410 |
| 016 | 2,880 | | 0,157 | 2,880 |
| 021 | 2,810 | | 0,042 | 2,810 |
| 022 | 3,090 | | 0,503 | 3,090 |
| 026 | 2,990 | | 0,338 | 2,990 |
| 028 | 3,330 | | 0,899 | 3,330 |
| 032 | 2,790 | | 0,009 | 2,790 |
| 039 | 2,910 | | 0,207 | 2,910 |
| 054 | 2,820 | | 0,058 | 2,820 |
| 055 | 2,530 | | -0,510 | 2,530 |
| 057 | 2,490 | | -0,590 | 2,490 |
| 060 | 2,820 | | 0,058 | 2,820 |
| 062 | 2,270 | | -1,030 | 2,270 |
| 066 | 3,030 | | 0,404 | 3,030 |
| 067 | 2,902 | | 0,193 | 2,902 |
| 068 | 3,890 | | 1,821 | 3,890 |
| 070 | 4,628 | | 3,038 | 4,628 |
| 077 | 2,440 | | -0,690 | 2,440 |
| 078 | 3,220 | | 0,717 | 3,220 |
| 086 | 2,500 | | -0,570 | 2,500 |
| 089 | 1,870 | | -1,831 | 1,870 |
| 091 | 3,070 | | 0,470 | 3,070 |
| 092 | 1,703 | | -2,165 | 1,703 |
| 093 | 3,190 | | 0,668 | 3,190 |
| 095 | 2,840 | | 0,091 | 2,840 |
| 098 | 2,940 | | 0,256 | 2,940 |
| 101 | 2,940 | | 0,256 | 2,940 |
| 102 | 2,550 | | -0,470 | 2,550 |
| 104 | 3,250 | | 0,767 | 3,250 |
| 106 | 3,150 | | 0,602 | 3,150 |
| 116 | 2,543 | | -0,484 | 2,543 |
| 119 | 2,510 | | -0,550 | 2,510 |
| 121 | 2,060 | | -1,451 | 2,060 |
| 125 | 2,290 | | -0,990 | 2,290 |
| 126 | 1,870 | | -1,831 | 1,870 |
| 130 | 2,470 | | -0,630 | 2,470 |
| 134 | 3,100 | | 0,520 | 3,100 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 8 **Sollwert:** 3,408 µg/L (empirischer Wert)
Merkmal: Trichlormethan **Rel. Soll-Stdabw.:** 15,70% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 2,409 - 4,577 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 3,830 | | 0,722 | 3,830 |
| 003 | 4,520 | | 1,903 | 4,520 |
| 011 | 4,830 | | 2,433 | 4,830 |
| 013 | 2,760 | | -1,298 | 2,760 |
| 014 | 2,790 | | -1,238 | 2,790 |
| 016 | 3,520 | | 0,191 | 3,520 |
| 021 | 3,390 | | -0,037 | 3,390 |
| 022 | 3,880 | | 0,807 | 3,880 |
| 026 | 3,770 | | 0,619 | 3,770 |
| 028 | 3,630 | | 0,379 | 3,630 |
| 032 | 3,360 | | -0,097 | 3,360 |
| 039 | 2,950 | | -0,918 | 2,950 |
| 054 | 3,120 | | -0,577 | 3,120 |
| 055 | 3,160 | | -0,497 | 3,160 |
| 057 | 2,660 | | -1,498 | 2,660 |
| 060 | 3,200 | | -0,417 | 3,200 |
| 062 | 3,110 | | -0,597 | 3,110 |
| 066 | 4,180 | | 1,321 | 4,180 |
| 067 | 3,547 | | 0,237 | 3,547 |
| 068 | 3,730 | | 0,551 | 3,730 |
| 070 | 4,213 | | 1,377 | 4,213 |
| 077 | 3,780 | | 0,636 | 3,780 |
| 078 | 3,370 | | -0,077 | 3,370 |
| 086 | 2,990 | | -0,837 | 2,990 |
| 089 | 3,590 | | 0,311 | 3,590 |
| 091 | 3,370 | | -0,077 | 3,370 |
| 092 | 2,373 | | -2,073 | 2,373 |
| 095 | 3,560 | | 0,260 | 3,560 |
| 098 | 3,570 | | 0,277 | 3,570 |
| 101 | 3,860 | | 0,773 | 3,860 |
| 102 | 3,180 | | -0,457 | 3,180 |
| 104 | 3,840 | | 0,739 | 3,840 |
| 106 | 3,550 | | 0,243 | 3,550 |
| 116 | 8,733 | | 9,113 | 8,733 |
| 117 | 3,410 | | 0,003 | 3,410 |
| 119 | 3,410 | | 0,003 | 3,410 |
| 121 | 2,450 | | -1,919 | 2,450 |
| 125 | 2,790 | | -1,238 | 2,790 |
| 126 | 2,740 | | -1,338 | 2,740 |
| 130 | 3,370 | | -0,077 | 3,370 |
| 134 | 3,520 | | 0,191 | 3,520 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 8 **Sollwert:** 5,607 µg/L (empirischer Wert)
Merkmal: Bromdichlormethan **Rel. Soll-Stdabw.:** 13,00% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 4,233 - 7,172 µg/L ($|\text{Zu-Score}| \leq 2,000$)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 6,390 | | 1,000 | 6,390 |
| 003 | 5,750 | | 0,182 | 5,750 |
| 011 | 7,440 | | 2,342 | 7,440 |
| 013 | 5,370 | | -0,345 | 5,370 |
| 014 | 4,610 | | -1,451 | 4,610 |
| 016 | 5,760 | | 0,195 | 5,760 |
| 021 | 5,710 | | 0,131 | 5,710 |
| 022 | 6,060 | | 0,579 | 6,060 |
| 026 | 6,660 | | 1,345 | 6,660 |
| 028 | 5,880 | | 0,349 | 5,880 |
| 032 | 5,920 | | 0,400 | 5,920 |
| 039 | 5,170 | | -0,636 | 5,170 |
| 054 | 5,740 | | 0,170 | 5,740 |
| 055 | 5,230 | | -0,549 | 5,230 |
| 057 | 4,580 | | -1,495 | 4,580 |
| 060 | 5,310 | | -0,433 | 5,310 |
| 062 | 5,120 | | -0,709 | 5,120 |
| 066 | 6,550 | | 1,205 | 6,550 |
| 067 | 5,971 | | 0,465 | 5,971 |
| 068 | 6,350 | | 0,949 | 6,350 |
| 070 | 7,093 | | 1,899 | 7,093 |
| 077 | 6,550 | | 1,205 | 6,550 |
| 078 | 5,750 | | 0,182 | 5,750 |
| 086 | 5,000 | | -0,884 | 5,000 |
| 089 | 5,480 | | -0,185 | 5,480 |
| 091 | 6,100 | | 0,630 | 6,100 |
| 092 | 4,345 | | -1,837 | 4,345 |
| 095 | 5,310 | | -0,433 | 5,310 |
| 098 | 5,690 | | 0,106 | 5,690 |
| 101 | 5,760 | | 0,195 | 5,760 |
| 102 | 5,450 | | -0,229 | 5,450 |
| 104 | 6,430 | | 1,051 | 6,430 |
| 106 | 5,650 | | 0,055 | 5,650 |
| 116 | 5,118 | | -0,712 | 5,118 |
| 117 | 5,150 | | -0,665 | 5,150 |
| 119 | 5,020 | | -0,855 | 5,020 |
| 121 | 3,960 | | -2,397 | 3,960 |
| 125 | 4,690 | | -1,335 | 4,690 |
| 126 | 4,930 | | -0,986 | 4,930 |
| 130 | 5,730 | | 0,157 | 5,730 |
| 134 | 5,530 | | -0,112 | 5,530 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 8 **Sollwert:** 14,472 µg/L (empirischer Wert)
Merkmal: Dibromchlormethan **Rel. Soll-Stdabw.:** 13,37% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 10,828 - 18,637 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 16,700 | | 1,070 | 16,700 |
| 003 | 14,480 | | 0,004 | 14,480 |
| 011 | 17,500 | | 1,454 | 17,500 |
| 013 | 13,200 | | -0,698 | 13,200 |
| 014 | 13,340 | | -0,621 | 13,340 |
| 016 | 14,700 | | 0,110 | 14,700 |
| 021 | 14,700 | | 0,110 | 14,700 |
| 022 | 19,000 | | 2,175 | 19,000 |
| 026 | 17,400 | | 1,406 | 17,400 |
| 028 | 16,200 | | 0,830 | 16,200 |
| 032 | 14,100 | | -0,204 | 14,100 |
| 039 | 12,700 | | -0,972 | 12,700 |
| 054 | 14,500 | | 0,013 | 14,500 |
| 055 | 12,800 | | -0,918 | 12,800 |
| 057 | 12,600 | | -1,027 | 12,600 |
| 060 | 13,500 | | -0,533 | 13,500 |
| 062 | 13,700 | | -0,424 | 13,700 |
| 066 | 16,800 | | 1,118 | 16,800 |
| 067 | 14,412 | | -0,033 | 14,412 |
| 068 | 16,000 | | 0,734 | 16,000 |
| 070 | 17,370 | | 1,392 | 17,370 |
| 077 | 16,700 | | 1,070 | 16,700 |
| 078 | 14,400 | | -0,039 | 14,400 |
| 086 | 13,490 | | -0,539 | 13,490 |
| 089 | 14,500 | | 0,013 | 14,500 |
| 091 | 12,700 | | -0,972 | 12,700 |
| 092 | 11,350 | | -1,713 | 11,350 |
| 095 | 13,200 | | -0,698 | 13,200 |
| 098 | 14,400 | | -0,039 | 14,400 |
| 101 | 15,900 | | 0,686 | 15,900 |
| 102 | 13,600 | | -0,479 | 13,600 |
| 104 | 18,280 | | 1,829 | 18,280 |
| 106 | 13,000 | | -0,808 | 13,000 |
| 116 | 14,050 | | -0,232 | 14,050 |
| 117 | 12,300 | | -1,192 | 12,300 |
| 119 | 12,000 | | -1,357 | 12,000 |
| 121 | 12,600 | | -1,027 | 12,600 |
| 125 | 11,860 | | -1,434 | 11,860 |
| 126 | 15,800 | | 0,638 | 15,800 |
| 130 | 15,300 | | 0,398 | 15,300 |
| 134 | 14,680 | | 0,100 | 14,680 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 8 **Sollwert:** 15,527 µg/L (empirischer Wert)
Merkmal: Tribrommethan **Rel. Soll-Stdabw.:** 13,98% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 11,449 - 20,216 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 15,600 | | 0,031 | 15,600 |
| 003 | 16,990 | | 0,624 | 16,990 |
| 011 | 17,500 | | 0,841 | 17,500 |
| 013 | 13,900 | | -0,798 | 13,900 |
| 014 | 14,900 | | -0,308 | 14,900 |
| 016 | 15,700 | | 0,074 | 15,700 |
| 021 | 15,200 | | -0,161 | 15,200 |
| 022 | 17,000 | | 0,628 | 17,000 |
| 026 | 23,200 | | 3,273 | 23,200 |
| 028 | 18,000 | | 1,055 | 18,000 |
| 032 | 15,200 | | -0,161 | 15,200 |
| 039 | 13,900 | | -0,798 | 13,900 |
| 054 | 16,000 | | 0,202 | 16,000 |
| 055 | 19,000 | | 1,481 | 19,000 |
| 057 | 13,900 | | -0,798 | 13,900 |
| 060 | 14,500 | | -0,504 | 14,500 |
| 062 | 14,700 | | -0,406 | 14,700 |
| 066 | 17,800 | | 0,969 | 17,800 |
| 067 | 17,304 | | 0,758 | 17,304 |
| 068 | 18,000 | | 1,055 | 18,000 |
| 070 | 19,705 | | 1,782 | 19,705 |
| 077 | 17,500 | | 0,841 | 17,500 |
| 078 | 14,600 | | -0,455 | 14,600 |
| 086 | 14,100 | | -0,700 | 14,100 |
| 089 | 15,800 | | 0,116 | 15,800 |
| 091 | 14,500 | | -0,504 | 14,500 |
| 092 | 13,065 | | -1,208 | 13,065 |
| 095 | 15,400 | | -0,062 | 15,400 |
| 098 | 16,500 | | 0,415 | 16,500 |
| 101 | 17,300 | | 0,756 | 17,300 |
| 102 | 13,600 | | -0,945 | 13,600 |
| 104 | 18,140 | | 1,114 | 18,140 |
| 106 | 13,000 | | -1,240 | 13,000 |
| 116 | 14,360 | | -0,572 | 14,360 |
| 117 | 12,200 | | -1,632 | 12,200 |
| 119 | 12,500 | | -1,485 | 12,500 |
| 121 | 12,400 | | -1,534 | 12,400 |
| 125 | 12,410 | | -1,529 | 12,410 |
| 126 | 16,600 | | 0,458 | 16,600 |
| 130 | 14,800 | | -0,357 | 14,800 |
| 134 | 16,490 | | 0,411 | 16,490 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 8 **Sollwert:** 4,839 µg/L (empirischer Wert)
Merkmal: Benzol **Rel. Soll-Stdabw.:** 14,58% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 3,516 - 6,369 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 5,420 | | 0,760 | 5,420 |
| 003 | 5,550 | | 0,930 | 5,550 |
| 011 | 7,450 | | 3,413 | 7,450 |
| 013 | 4,100 | | -1,117 | 4,100 |
| 014 | 4,360 | | -0,724 | 4,360 |
| 016 | 4,760 | | -0,119 | 4,760 |
| 021 | 4,660 | | -0,270 | 4,660 |
| 022 | 5,130 | | 0,381 | 5,130 |
| 026 | 5,150 | | 0,407 | 5,150 |
| 028 | 5,220 | | 0,498 | 5,220 |
| 032 | 6,070 | | 1,609 | 6,070 |
| 039 | 4,840 | | 0,002 | 4,840 |
| 054 | 6,430 | | 2,080 | 6,430 |
| 055 | 4,450 | | -0,588 | 4,450 |
| 057 | 3,950 | | -1,344 | 3,950 |
| 060 | 4,840 | | 0,002 | 4,840 |
| 062 | 4,400 | | -0,663 | 4,400 |
| 066 | 5,350 | | 0,668 | 5,350 |
| 067 | 4,917 | | 0,102 | 4,917 |
| 068 | 5,350 | | 0,668 | 5,350 |
| 070 | 6,775 | | 2,531 | 6,775 |
| 077 | 5,610 | | 1,008 | 5,610 |
| 078 | 5,380 | | 0,708 | 5,380 |
| 086 | 4,150 | | -1,041 | 4,150 |
| 089 | 4,360 | | -0,724 | 4,360 |
| 091 | 4,930 | | 0,119 | 4,930 |
| 092 | 4,708 | | -0,198 | 4,708 |
| 093 | 4,700 | | -0,210 | 4,700 |
| 095 | 4,610 | | -0,346 | 4,610 |
| 098 | 4,730 | | -0,164 | 4,730 |
| 101 | 4,360 | | -0,724 | 4,360 |
| 102 | 4,570 | | -0,406 | 4,570 |
| 104 | 5,260 | | 0,551 | 5,260 |
| 106 | 4,450 | | -0,588 | 4,450 |
| 116 | 5,030 | | 0,250 | 5,030 |
| 119 | 4,170 | | -1,011 | 4,170 |
| 121 | 15,300 | | 13,675 | 15,300 |
| 125 | 3,920 | | -1,389 | 3,920 |
| 126 | 3,640 | | -1,813 | 3,640 |
| 130 | 4,290 | | -0,830 | 4,290 |
| 134 | 5,000 | | 0,211 | 5,000 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 8 **Sollwert:** 3,961 µg/L (empirischer Wert)
Merkmal: Vinylchlorid **Rel. Soll-Stdabw.:** 25,00% (Limited)
Anzahl Labore in Berechnung: 31 **Toleranzbereich:** 2,171 - 6,258 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 002 | 3,720 | | -0,269 | 3,720 |
| 011 | 7,810 | | 3,351 | 7,810 |
| 013 | 4,580 | | 0,539 | 4,580 |
| 016 | 4,360 | | 0,347 | 4,360 |
| 021 | 3,000 | | -1,074 | 3,000 |
| 022 | 3,860 | | -0,113 | 3,860 |
| 026 | 4,710 | | 0,652 | 4,710 |
| 032 | 4,770 | | 0,704 | 4,770 |
| 039 | 2,830 | | -1,264 | 2,830 |
| 054 | 2,610 | | -1,510 | 2,610 |
| 055 | 4,270 | | 0,269 | 4,270 |
| 057 | 2,440 | | -1,700 | 2,440 |
| 060 | 2,780 | | -1,320 | 2,780 |
| 062 | 4,530 | | 0,495 | 4,530 |
| 066 | 3,860 | | -0,113 | 3,860 |
| 067 | 2,965 | | -1,113 | 2,965 |
| 068 | 5,860 | | 1,653 | 5,860 |
| 070 | 5,305 | | 1,170 | 5,305 |
| 086 | 3,630 | | -0,370 | 3,630 |
| 089 | 2,310 | | -1,845 | 2,310 |
| 091 | 6,140 | | 1,897 | 6,140 |
| 092 | 3,798 | | -0,182 | 3,798 |
| 093 | 2,150 | | -2,024 | 2,150 |
| 095 | 4,270 | | 0,269 | 4,270 |
| 101 | 7,100 | | 2,733 | 7,100 |
| 102 | 4,730 | | 0,670 | 4,730 |
| 106 | 3,850 | | -0,124 | 3,850 |
| 119 | 2,840 | | -1,253 | 2,840 |
| 125 | 3,940 | | -0,023 | 3,940 |
| 130 | 3,180 | | -0,873 | 3,180 |
| 134 | 3,930 | | -0,035 | 3,930 |



Probe 9

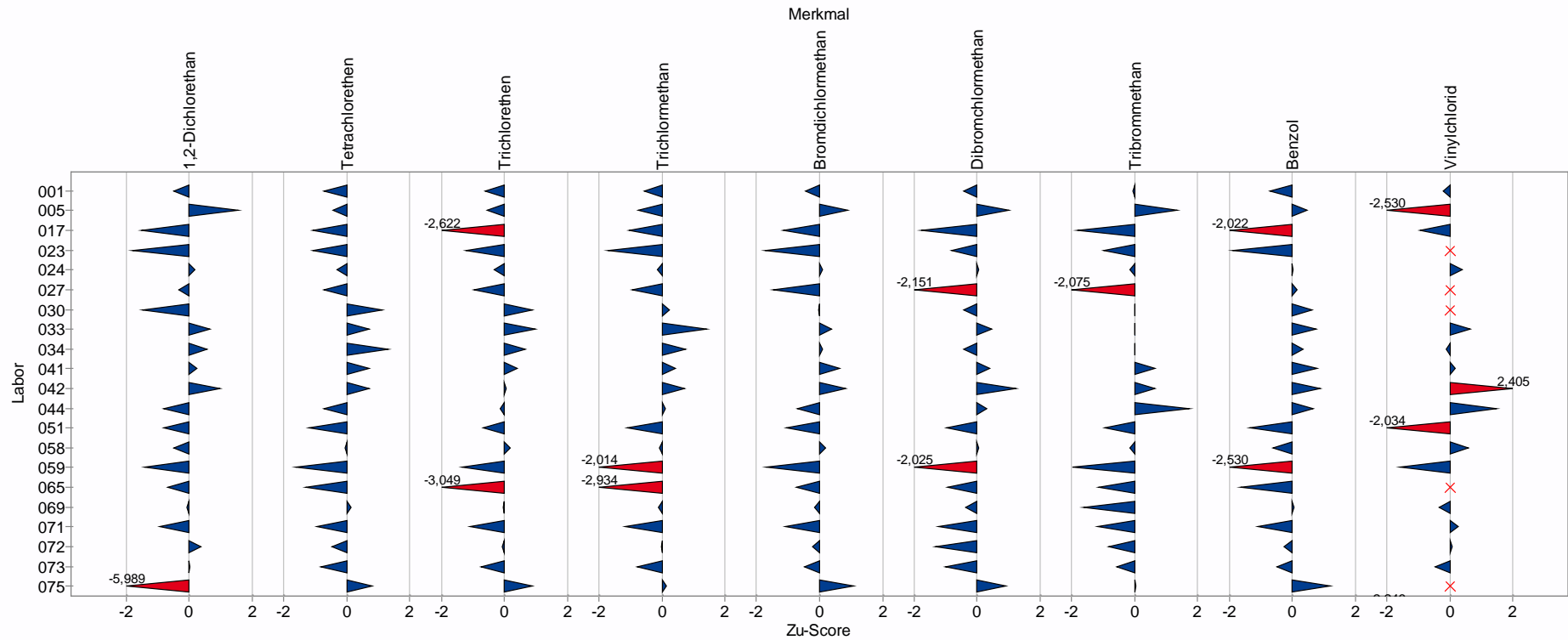
Kennwerte – Probe 9

Tabelle

| Probe 9 | Einheit | Anzahl der Labore | Sollwert | Soll-Stdabw. | Vergleich-Stdabw. | Rel. Soll-Stdabw. | Rel. Vergleich-Stdabw. | unt. Toleranzgr. | ob. Toleranzgr. | Messunsicherheit MU |
|-------------------|---------|-------------------|----------|--------------|-------------------|-------------------|------------------------|------------------|-----------------|---------------------|
| 1,2-Dichlorethan | µg/L | 39 | 10,521 | 1,732 | 1,732 | 16,46 % | 16,46 % | 7,298 | 14,320 | 3,29 % |
| Tetrachlorethen | µg/L | 41 | 11,130 | 1,909 | 1,909 | 17,16 % | 17,16 % | 7,585 | 15,336 | 3,35 % |
| Trichlorethen | µg/L | 41 | 3,848 | 0,656 | 0,656 | 17,06 % | 17,06 % | 2,629 | 5,293 | 3,33 % |
| Trichlormethan | µg/L | 42 | 4,308 | 0,726 | 0,726 | 16,85 % | 16,85 % | 2,960 | 5,904 | 3,25 % |
| Bromdichlormethan | µg/L | 41 | 7,457 | 1,103 | 1,103 | 14,79 % | 14,79 % | 5,391 | 9,852 | 2,89 % |
| Dibromchlormethan | µg/L | 41 | 16,639 | 2,557 | 2,557 | 15,37 % | 15,37 % | 11,861 | 22,211 | 3,00 % |
| Tribrommethan | µg/L | 41 | 11,910 | 1,946 | 1,946 | 16,34 % | 16,34 % | 8,287 | 16,176 | 3,19 % |
| Benzol | µg/L | 40 | 5,814 | 0,708 | 0,708 | 12,17 % | 12,17 % | 4,475 | 7,327 | 2,41 % |
| Vinylchlorid | µg/L | 28 | 1,979 | 0,495 | 0,662 | 25,00 % | 33,45 % | 1,085 | 3,127 | 7,90 % |

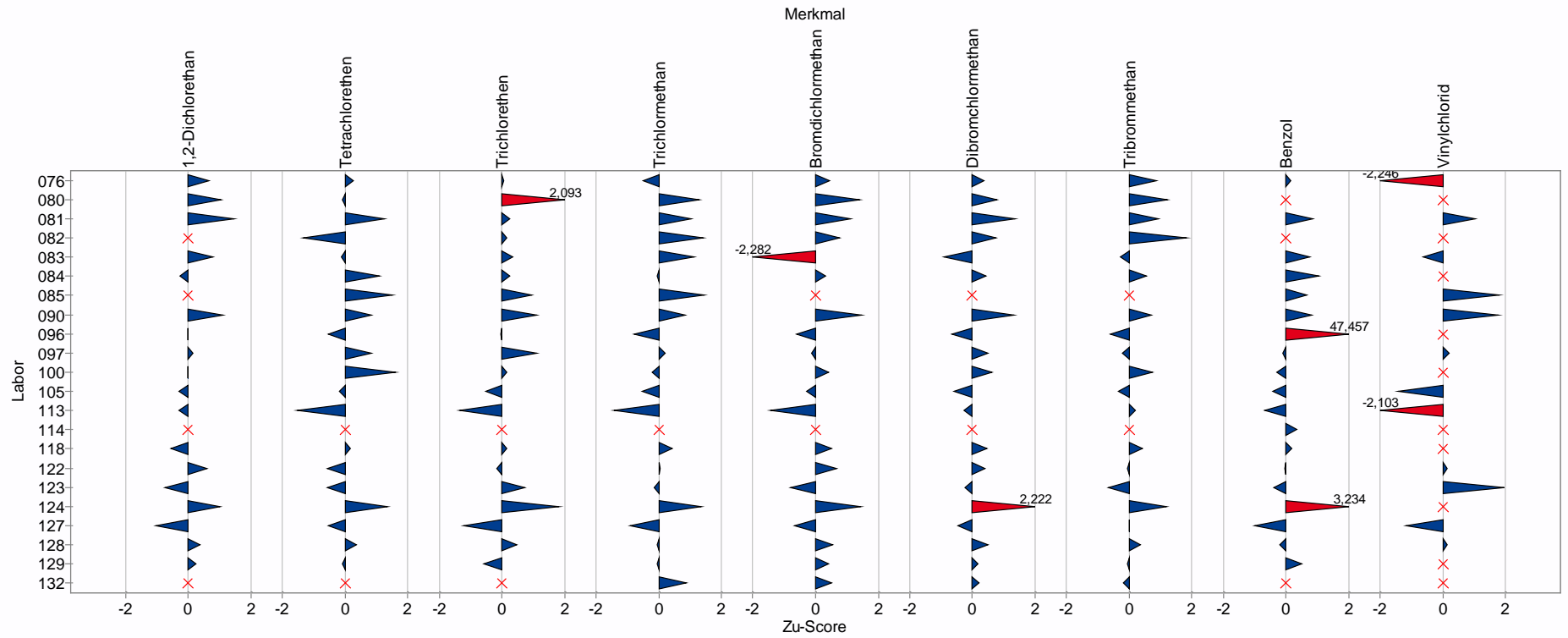
Übersicht z_U-Scores

Graphik 9a: z_U-scores Probe9, Teil 1



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Graphik 9b: z_U-scores Probe9, Teil 2



PROLab

Einzeldarstellung der Parameter

Grafik und Tabelle

Abbildung 73: Mittelwerte + Stdabw. für Niveau 9, 1,2-Dichlorethan

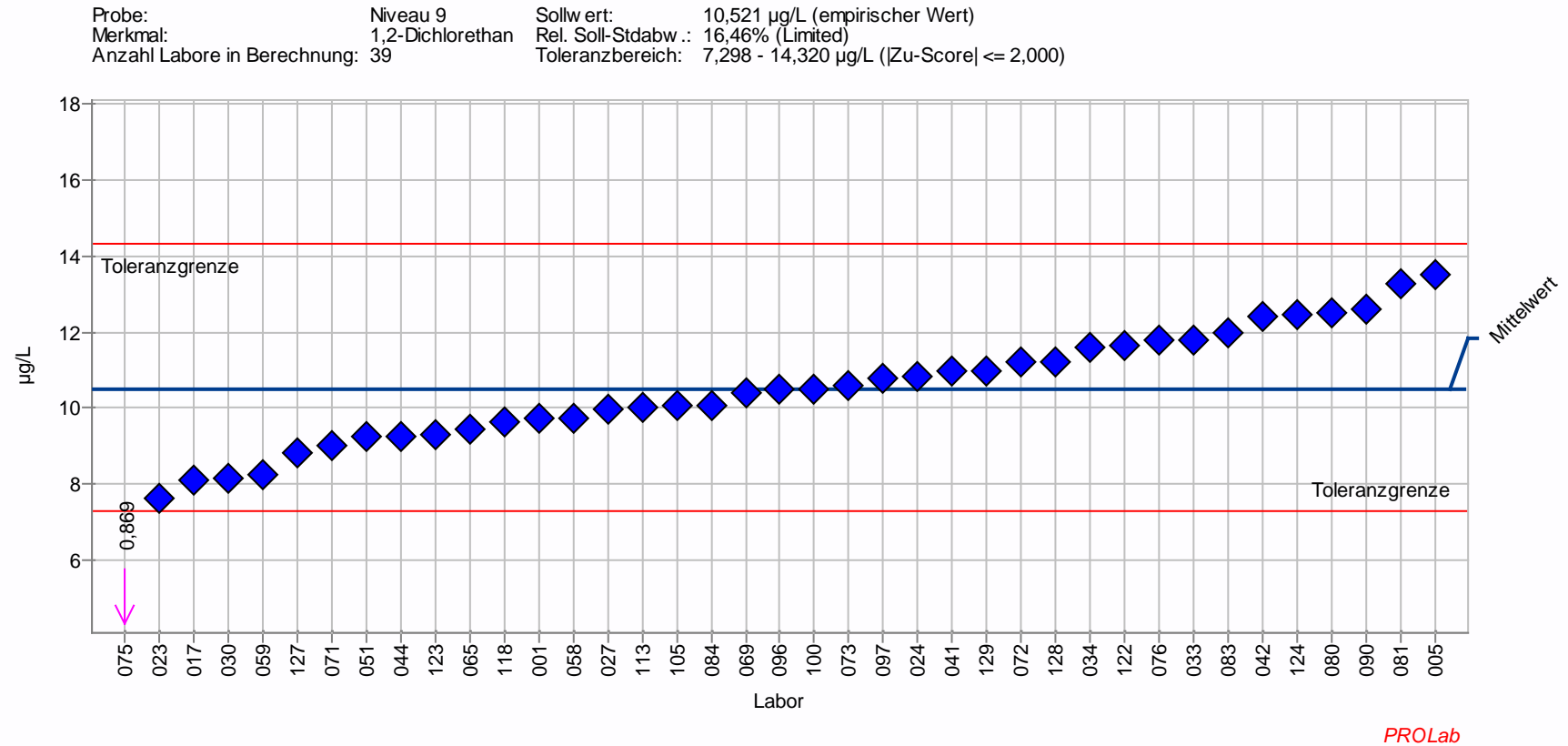
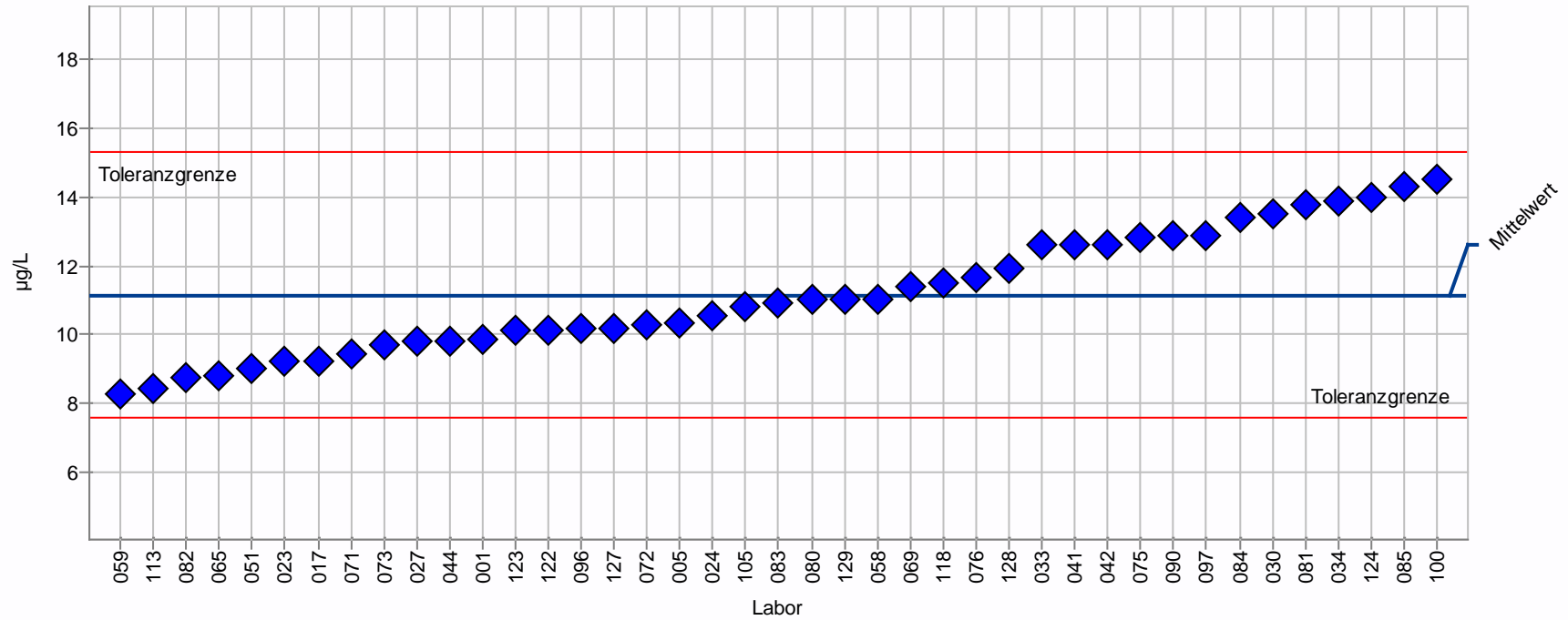


Abbildung 74: Mittelwerte + Stdabw. für Niveau 9, Tetrachlorethen

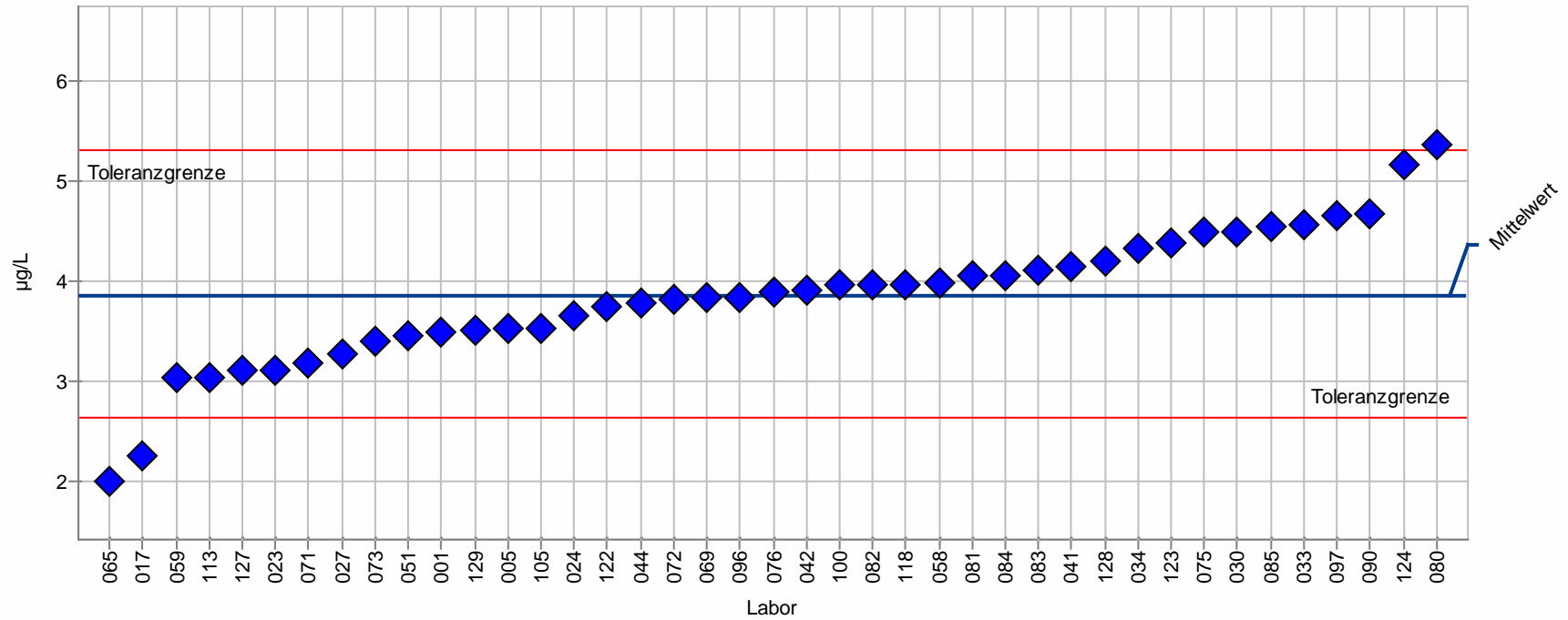
Probe: Niveau 9 Sollwert: 11,130 µg/L (empirischer Wert)
 Merkmal: Tetrachlorethen Rel. Soll-Stdabw.: 17,16% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 7,585 - 15,336 µg/L (|Zu-Score| <= 2,000)



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Abbildung 75: Mittelwerte + Stdabw. für Niveau 9, Trichlorethen

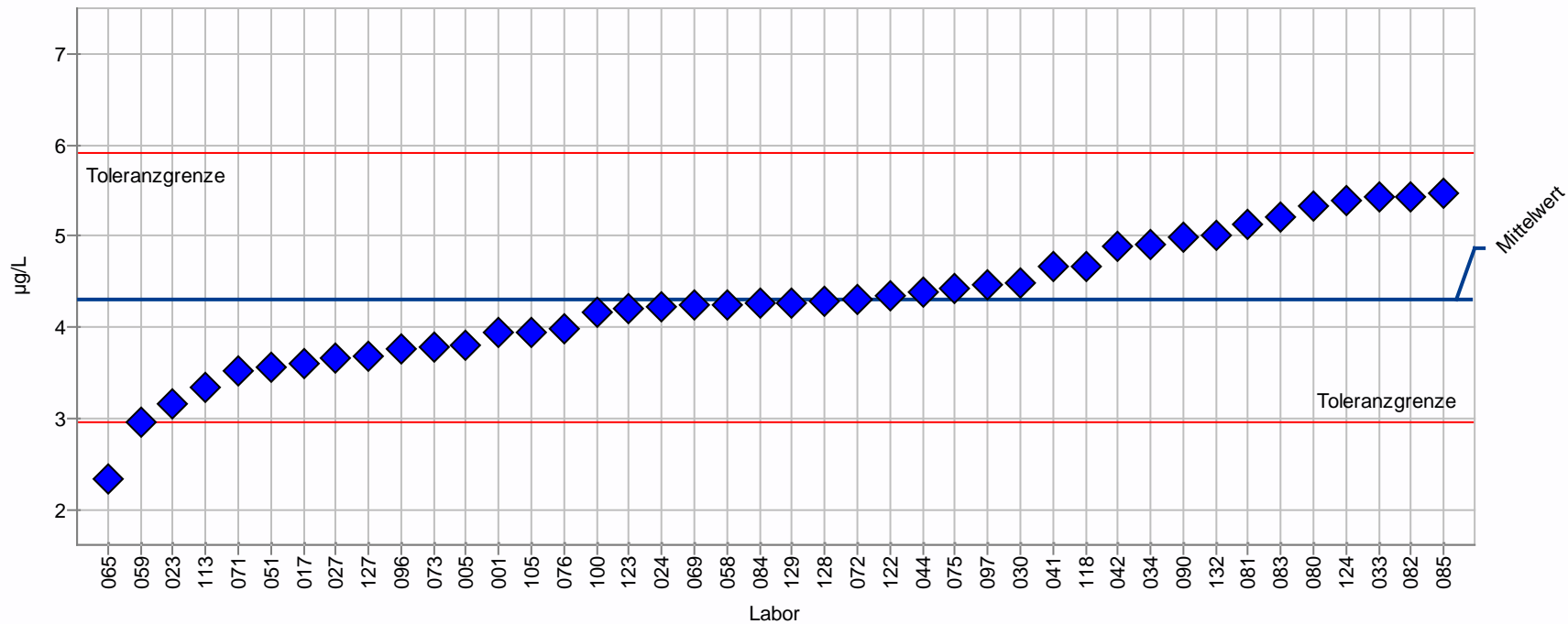
Probe: Niveau 9 Sollwert: 3,848 µg/L (empirischer Wert)
 Merkmal: Trichlorethen Rel. Soll-Stdabw.: 17,06% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 2,629 - 5,293 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 76: Mittelwerte + Stdabw. für Niveau 9, Trichlormethan

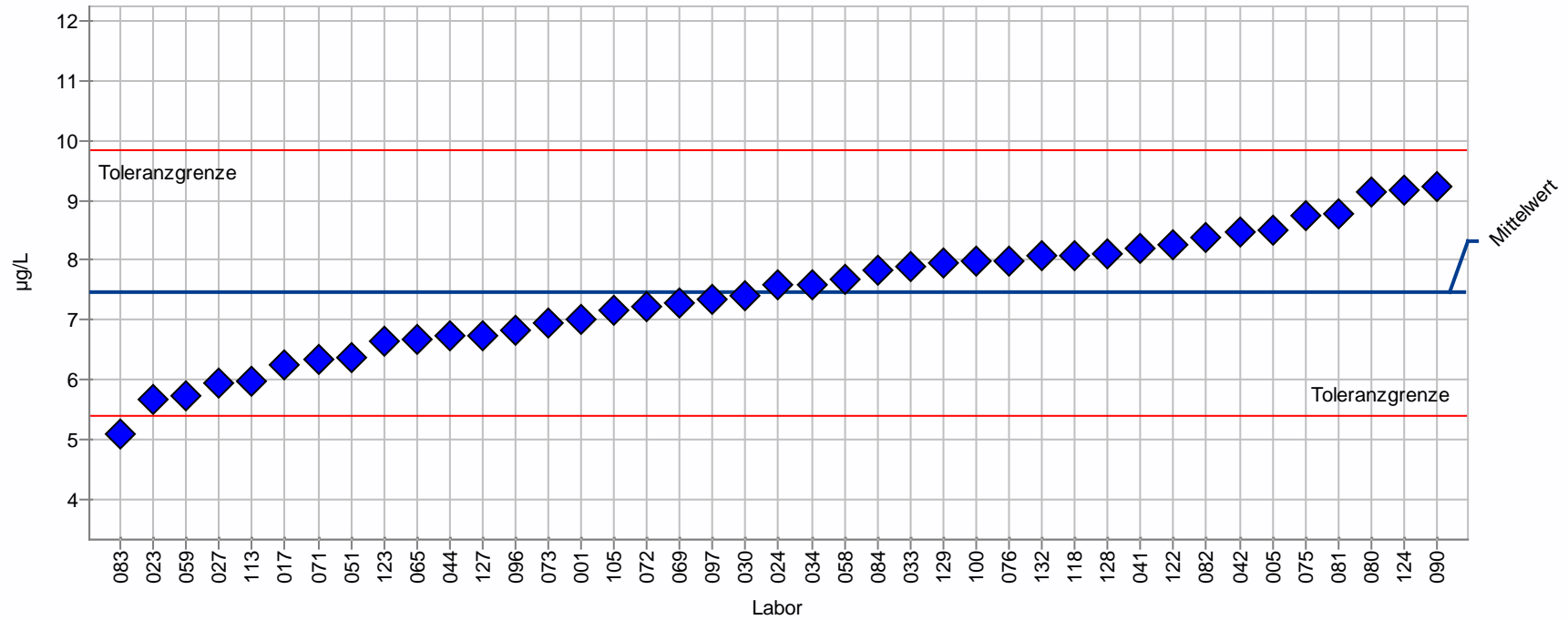
Probe: Niveau 9 Sollwert: 4,308 µg/L (empirischer Wert)
 Merkmal: Trichlormethan Rel. Soll-Stdabw.: 16,85% (Limited)
 Anzahl Labore in Berechnung: 42 Toleranzbereich: 2,960 - 5,904 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 77: Mittelwerte + Stdabw. für Niveau 9, Bromdichlormethan

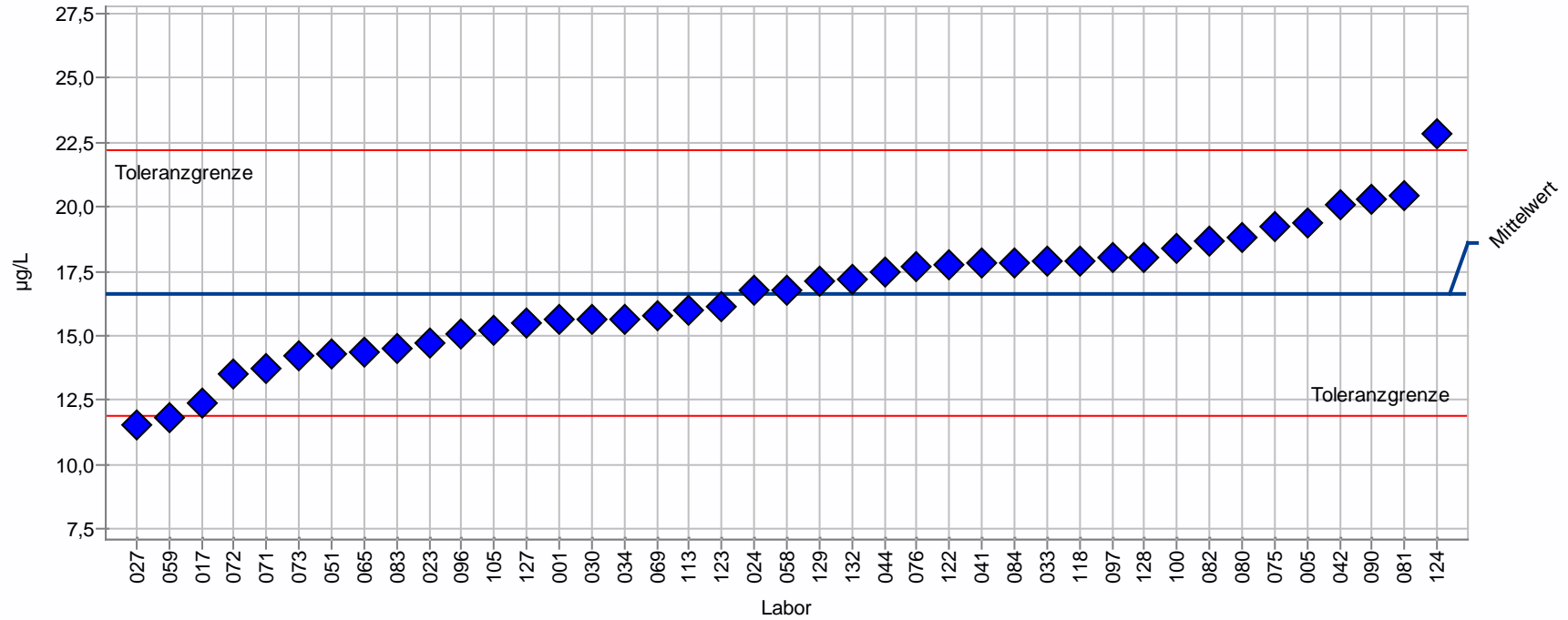
Probe: Niveau 9
 Merkmal: Bromdichlormethan
 Anzahl Labore in Berechnung: 41
 Sollwert: 7,457 µg/L (empirischer Wert)
 Rel. Soll-Stdabw.: 14,79% (Limited)
 Toleranzbereich: 5,391 - 9,852 µg/L ($|\text{Zu-Score}| \leq 2,000$)



PROLab

Abbildung 78: Mittelwerte + Stdabw. für Niveau 9, Dibromchlormethan

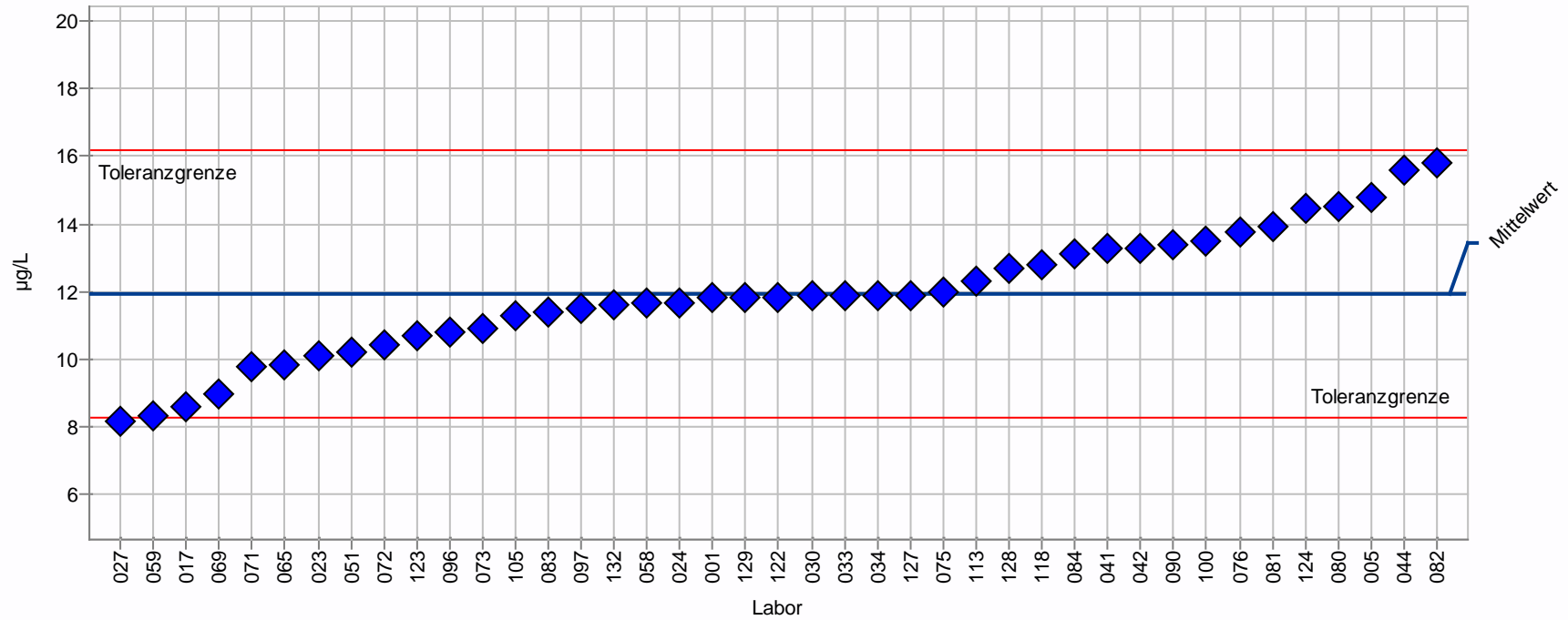
Probe: Niveau 9 Sollwert: 16,639 µg/L (empirischer Wert)
 Merkmal: Dibromchlormethan Rel. Soll-Stdabw.: 15,37% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 11,861 - 22,211 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 79: Mittelwerte + Stdabw. für Niveau 9, Tribrommethan

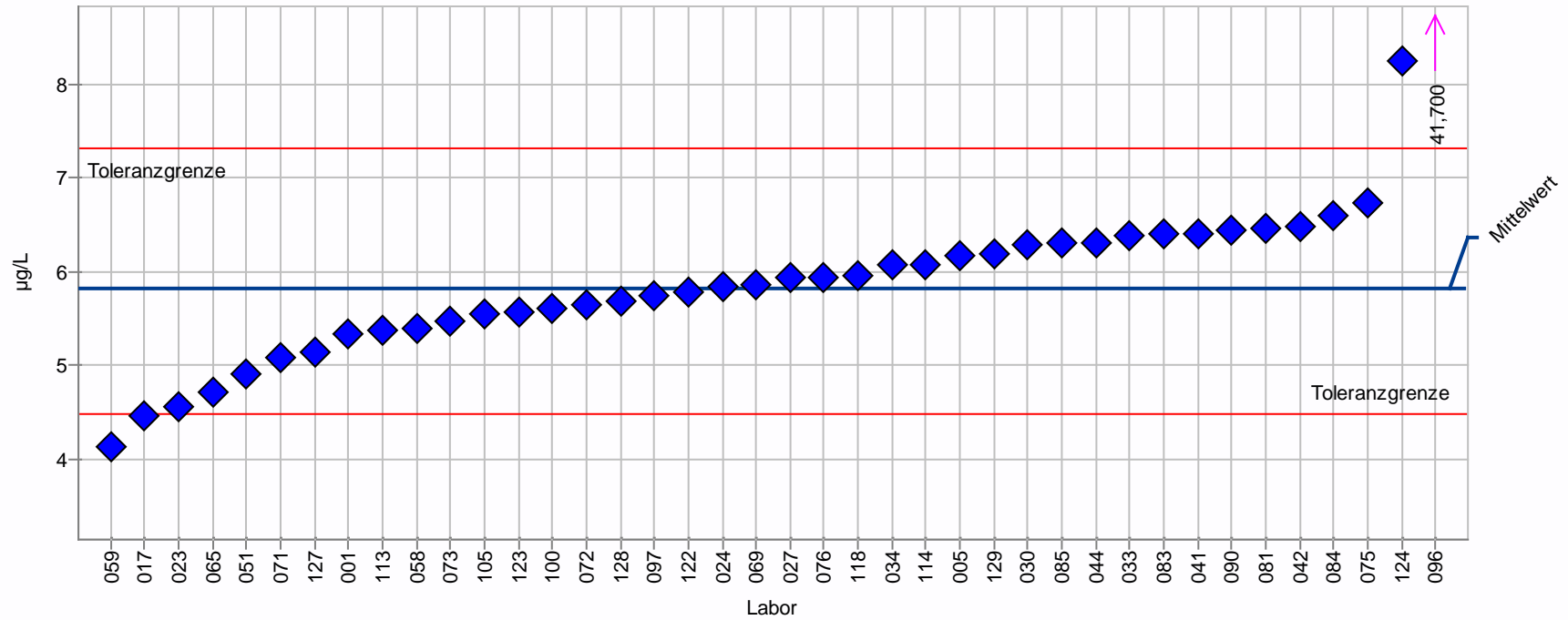
Probe: Niveau 9 Sollwert: 11,910 µg/L (empirischer Wert)
 Merkmal: Tribrommethan Rel. Soll-Stdabw.: 16,34% (Limited)
 Anzahl Labore in Berechnung: 41 Toleranzbereich: 8,287 - 16,176 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 80: Mittelwerte + Stdabw. für Niveau 9, Benzol

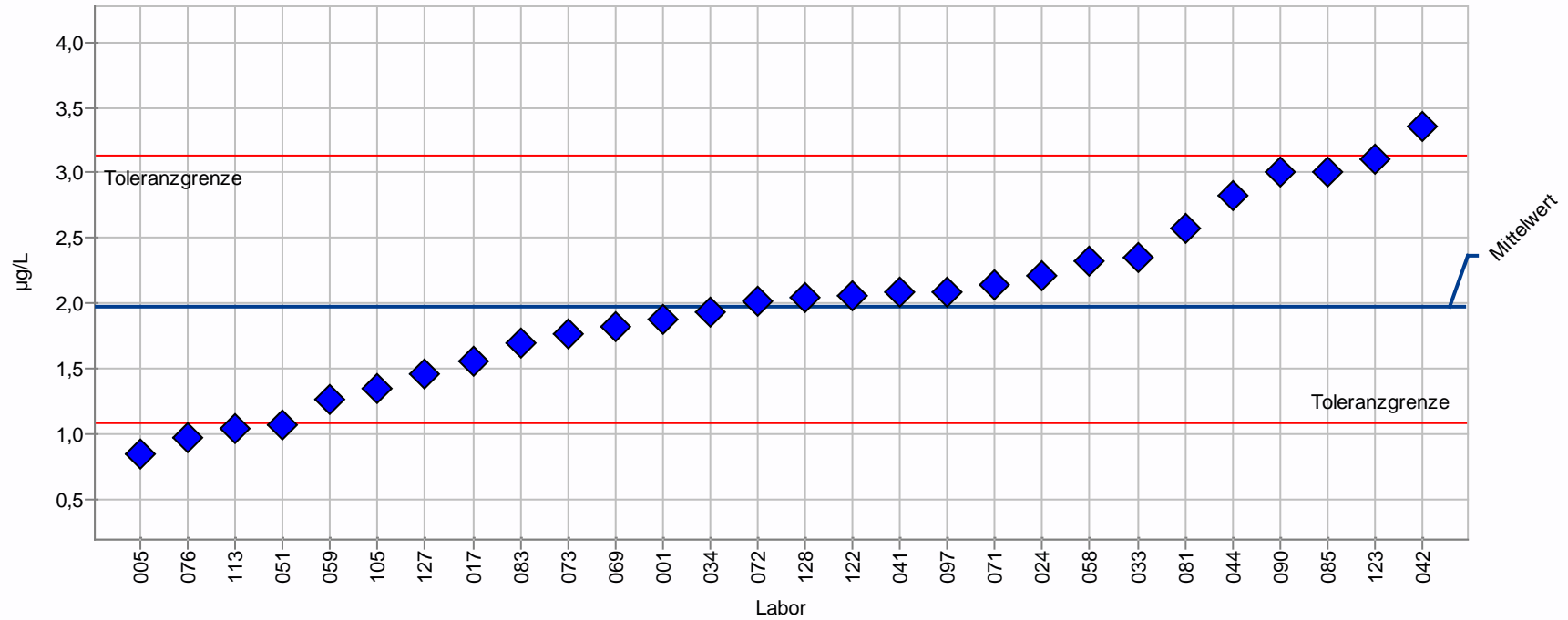
Probe: Niveau 9 Sollwert: 5,814 µg/L (empirischer Wert)
 Merkmal: Benzol Rel. Soll-Stdabw.: 12,17% (Limited)
 Anzahl Labore in Berechnung: 40 Toleranzbereich: 4,475 - 7,327 µg/L (|Zu-Score| <= 2,000)



PROLab

Abbildung 81: Mittelwerte + Stdabw. für Niveau 9, Vinylchlorid

Probe: Niveau 9 Solwert: 1,979 µg/L (empirischer Wert)
 Merkmal: Vinylchlorid Rel. Soll-Stdabw.: 25,00% (Limited)
 Anzahl Labore in Berechnung: 28 Toleranzbereich: 1,085 - 3,127 µg/L ($|Z\text{-Score}| \leq 2,000$)



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 9 **Sollwert:** 10,521 µg/L (empirischer Wert)
Merkmal: 1,2-Dichlorethan **Rel. Soll-Stdabw.:** 16,46% (Limited)
Anzahl Labore in Berechnung: 39 **Toleranzbereich:** 7,298 - 14,320 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 9,750 | | -0,478 | 9,750 |
| 005 | 13,507 | | 1,572 | 13,507 |
| 017 | 8,090 | | -1,508 | 8,090 |
| 023 | 7,620 | | -1,800 | 7,620 |
| 024 | 10,837 | | 0,166 | 10,837 |
| 027 | 9,990 | | -0,329 | 9,990 |
| 030 | 8,130 | | -1,484 | 8,130 |
| 033 | 11,800 | | 0,673 | 11,800 |
| 034 | 11,600 | | 0,568 | 11,600 |
| 041 | 11,000 | | 0,252 | 11,000 |
| 042 | 12,400 | | 0,989 | 12,400 |
| 044 | 9,232 | | -0,800 | 9,232 |
| 051 | 9,230 | | -0,801 | 9,230 |
| 058 | 9,750 | | -0,478 | 9,750 |
| 059 | 8,230 | | -1,421 | 8,230 |
| 065 | 9,425 | | -0,680 | 9,425 |
| 069 | 10,400 | | -0,075 | 10,400 |
| 071 | 9,000 | | -0,944 | 9,000 |
| 072 | 11,200 | | 0,358 | 11,200 |
| 073 | 10,580 | | 0,031 | 10,580 |
| 075 | 0,869 | | -5,989 | 0,869 |
| 076 | 11,770 | | 0,658 | 11,770 |
| 080 | 12,500 | | 1,042 | 12,500 |
| 081 | 13,300 | | 1,463 | 13,300 |
| 083 | 12,000 | | 0,779 | 12,000 |
| 084 | 10,080 | | -0,274 | 10,080 |
| 090 | 12,600 | | 1,095 | 12,600 |
| 096 | 10,500 | | -0,013 | 10,500 |
| 097 | 10,800 | | 0,147 | 10,800 |
| 100 | 10,500 | | -0,013 | 10,500 |
| 105 | 10,049 | | -0,293 | 10,049 |
| 113 | 10,036 | | -0,301 | 10,036 |
| 118 | 9,650 | | -0,540 | 9,650 |
| 122 | 11,670 | | 0,605 | 11,670 |
| 123 | 9,320 | | -0,745 | 9,320 |
| 124 | 12,470 | | 1,026 | 12,470 |
| 127 | 8,840 | | -1,043 | 8,840 |
| 128 | 11,200 | | 0,358 | 11,200 |
| 129 | 11,000 | | 0,252 | 11,000 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 9 **Sollwert:** 11,130 µg/L (empirischer Wert)
Merkmal: Tetrachlorethen **Rel. Soll-Stdabw.:** 17,16% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 7,585 - 15,336 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 9,840 | | -0,728 | 9,840 |
| 005 | 10,340 | | -0,446 | 10,340 |
| 017 | 9,230 | | -1,072 | 9,230 |
| 023 | 9,200 | | -1,089 | 9,200 |
| 024 | 10,557 | | -0,323 | 10,557 |
| 027 | 9,820 | | -0,739 | 9,820 |
| 030 | 13,500 | | 1,127 | 13,500 |
| 033 | 12,600 | | 0,699 | 12,600 |
| 034 | 13,900 | | 1,317 | 13,900 |
| 041 | 12,600 | | 0,699 | 12,600 |
| 042 | 12,600 | | 0,699 | 12,600 |
| 044 | 9,834 | | -0,731 | 9,834 |
| 051 | 9,000 | | -1,202 | 9,000 |
| 058 | 11,010 | | -0,067 | 11,010 |
| 059 | 8,270 | | -1,614 | 8,270 |
| 065 | 8,797 | | -1,316 | 8,797 |
| 069 | 11,400 | | 0,129 | 11,400 |
| 071 | 9,460 | | -0,942 | 9,460 |
| 072 | 10,300 | | -0,468 | 10,300 |
| 073 | 9,680 | | -0,818 | 9,680 |
| 075 | 12,800 | | 0,794 | 12,800 |
| 076 | 11,670 | | 0,257 | 11,670 |
| 080 | 11,000 | | -0,073 | 11,000 |
| 081 | 13,800 | | 1,270 | 13,800 |
| 082 | 8,750 | | -1,343 | 8,750 |
| 083 | 10,900 | | -0,130 | 10,900 |
| 084 | 13,424 | | 1,091 | 13,424 |
| 085 | 14,279 | | 1,497 | 14,279 |
| 090 | 12,900 | | 0,842 | 12,900 |
| 096 | 10,200 | | -0,525 | 10,200 |
| 097 | 12,900 | | 0,842 | 12,900 |
| 100 | 14,500 | | 1,602 | 14,500 |
| 105 | 10,808 | | -0,181 | 10,808 |
| 113 | 8,434 | | -1,521 | 8,434 |
| 118 | 11,500 | | 0,176 | 11,500 |
| 122 | 10,120 | | -0,570 | 10,120 |
| 123 | 10,100 | | -0,581 | 10,100 |
| 124 | 13,980 | | 1,355 | 13,980 |
| 127 | 10,200 | | -0,525 | 10,200 |
| 128 | 11,900 | | 0,366 | 11,900 |
| 129 | 11,000 | | -0,073 | 11,000 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 9 **Sollwert:** 3,848 µg/L (empirischer Wert)
Merkmal: Trichlorethen **Rel. Soll-Stdabw.:** 17,06% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 2,629 - 5,293 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 3,480 | | -0,604 | 3,480 |
| 005 | 3,516 | | -0,544 | 3,516 |
| 017 | 2,250 | | -2,622 | 2,250 |
| 023 | 3,110 | | -1,211 | 3,110 |
| 024 | 3,647 | | -0,330 | 3,647 |
| 027 | 3,260 | | -0,965 | 3,260 |
| 030 | 4,490 | | 0,889 | 4,490 |
| 033 | 4,550 | | 0,972 | 4,550 |
| 034 | 4,320 | | 0,654 | 4,320 |
| 041 | 4,140 | | 0,404 | 4,140 |
| 042 | 3,900 | | 0,072 | 3,900 |
| 044 | 3,771 | | -0,126 | 3,771 |
| 051 | 3,440 | | -0,669 | 3,440 |
| 058 | 3,980 | | 0,183 | 3,980 |
| 059 | 3,020 | | -1,358 | 3,020 |
| 065 | 1,990 | | -3,049 | 1,990 |
| 069 | 3,820 | | -0,046 | 3,820 |
| 071 | 3,180 | | -1,096 | 3,180 |
| 072 | 3,810 | | -0,062 | 3,810 |
| 073 | 3,400 | | -0,735 | 3,400 |
| 075 | 4,480 | | 0,875 | 4,480 |
| 076 | 3,885 | | 0,052 | 3,885 |
| 080 | 5,360 | | 2,093 | 5,360 |
| 081 | 4,040 | | 0,266 | 4,040 |
| 082 | 3,960 | | 0,155 | 3,960 |
| 083 | 4,100 | | 0,349 | 4,100 |
| 084 | 4,040 | | 0,266 | 4,040 |
| 085 | 4,533 | | 0,948 | 4,533 |
| 090 | 4,660 | | 1,124 | 4,660 |
| 096 | 3,820 | | -0,046 | 3,820 |
| 097 | 4,650 | | 1,110 | 4,650 |
| 100 | 3,950 | | 0,141 | 3,950 |
| 105 | 3,528 | | -0,525 | 3,528 |
| 113 | 3,027 | | -1,347 | 3,027 |
| 118 | 3,960 | | 0,155 | 3,960 |
| 122 | 3,741 | | -0,175 | 3,741 |
| 123 | 4,370 | | 0,723 | 4,370 |
| 124 | 5,150 | | 1,802 | 5,150 |
| 127 | 3,100 | | -1,227 | 3,100 |
| 128 | 4,190 | | 0,474 | 4,190 |
| 129 | 3,500 | | -0,571 | 3,500 |



Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 9 **Sollwert:** 4,308 µg/L (empirischer Wert)
Merkmal: Trichlormethan **Rel. Soll-Stdabw.:** 16,85% (Limited)
Anzahl Labore in Berechnung: 42 **Toleranzbereich:** 2,960 - 5,904 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 3,940 | | -0,546 | 3,940 |
| 005 | 3,810 | | -0,739 | 3,810 |
| 017 | 3,600 | | -1,050 | 3,600 |
| 023 | 3,150 | | -1,718 | 3,150 |
| 024 | 4,214 | | -0,140 | 4,214 |
| 027 | 3,660 | | -0,961 | 3,660 |
| 030 | 4,490 | | 0,228 | 4,490 |
| 033 | 5,430 | | 1,406 | 5,430 |
| 034 | 4,900 | | 0,742 | 4,900 |
| 041 | 4,660 | | 0,441 | 4,660 |
| 042 | 4,890 | | 0,729 | 4,890 |
| 044 | 4,389 | | 0,101 | 4,389 |
| 051 | 3,570 | | -1,095 | 3,570 |
| 058 | 4,250 | | -0,086 | 4,250 |
| 059 | 2,950 | | -2,014 | 2,950 |
| 065 | 2,330 | | -2,934 | 2,330 |
| 069 | 4,240 | | -0,101 | 4,240 |
| 071 | 3,530 | | -1,154 | 3,530 |
| 072 | 4,300 | | -0,012 | 4,300 |
| 073 | 3,780 | | -0,783 | 3,780 |
| 075 | 4,430 | | 0,153 | 4,430 |
| 076 | 3,980 | | -0,487 | 3,980 |
| 080 | 5,330 | | 1,280 | 5,330 |
| 081 | 5,130 | | 1,030 | 5,130 |
| 082 | 5,430 | | 1,406 | 5,430 |
| 083 | 5,200 | | 1,118 | 5,200 |
| 084 | 4,268 | | -0,060 | 4,268 |
| 085 | 5,464 | | 1,448 | 5,464 |
| 090 | 4,990 | | 0,854 | 4,990 |
| 096 | 3,770 | | -0,798 | 3,770 |
| 097 | 4,460 | | 0,190 | 4,460 |
| 100 | 4,170 | | -0,205 | 4,170 |
| 105 | 3,952 | | -0,528 | 3,952 |
| 113 | 3,346 | | -1,427 | 3,346 |
| 118 | 4,660 | | 0,441 | 4,660 |
| 122 | 4,350 | | 0,052 | 4,350 |
| 123 | 4,210 | | -0,146 | 4,210 |
| 124 | 5,380 | | 1,343 | 5,380 |
| 127 | 3,690 | | -0,917 | 3,690 |
| 128 | 4,280 | | -0,042 | 4,280 |
| 129 | 4,270 | | -0,057 | 4,270 |
| 132 | 5,010 | | 0,879 | 5,010 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 9 **Sollwert:** 7,457 µg/L (empirischer Wert)
Merkmal: Bromdichlormethan **Rel. Soll-Stdabw.:** 14,79% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 5,391 - 9,852 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 7,010 | | -0,433 | 7,010 |
| 005 | 8,510 | | 0,879 | 8,510 |
| 017 | 6,260 | | -1,159 | 6,260 |
| 023 | 5,680 | | -1,721 | 5,680 |
| 024 | 7,586 | | 0,108 | 7,586 |
| 027 | 5,950 | | -1,459 | 5,950 |
| 030 | 7,410 | | -0,046 | 7,410 |
| 033 | 7,900 | | 0,370 | 7,900 |
| 034 | 7,590 | | 0,111 | 7,590 |
| 041 | 8,210 | | 0,629 | 8,210 |
| 042 | 8,460 | | 0,838 | 8,460 |
| 044 | 6,728 | | -0,706 | 6,728 |
| 051 | 6,380 | | -1,043 | 6,380 |
| 058 | 7,680 | | 0,186 | 7,680 |
| 059 | 5,720 | | -1,682 | 5,720 |
| 065 | 6,688 | | -0,745 | 6,688 |
| 069 | 7,290 | | -0,162 | 7,290 |
| 071 | 6,350 | | -1,072 | 6,350 |
| 072 | 7,220 | | -0,229 | 7,220 |
| 073 | 6,950 | | -0,491 | 6,950 |
| 075 | 8,740 | | 1,072 | 8,740 |
| 076 | 7,995 | | 0,449 | 7,995 |
| 080 | 9,140 | | 1,406 | 9,140 |
| 081 | 8,790 | | 1,113 | 8,790 |
| 082 | 8,370 | | 0,763 | 8,370 |
| 083 | 5,100 | | -2,282 | 5,100 |
| 084 | 7,834 | | 0,315 | 7,834 |
| 090 | 9,230 | | 1,481 | 9,230 |
| 096 | 6,830 | | -0,607 | 6,830 |
| 097 | 7,330 | | -0,123 | 7,330 |
| 100 | 7,970 | | 0,428 | 7,970 |
| 105 | 7,150 | | -0,297 | 7,150 |
| 113 | 5,962 | | -1,447 | 5,962 |
| 118 | 8,080 | | 0,520 | 8,080 |
| 122 | 8,263 | | 0,673 | 8,263 |
| 123 | 6,630 | | -0,801 | 6,630 |
| 124 | 9,180 | | 1,439 | 9,180 |
| 127 | 6,750 | | -0,685 | 6,750 |
| 128 | 8,110 | | 0,545 | 8,110 |
| 129 | 7,950 | | 0,412 | 7,950 |
| 132 | 8,070 | | 0,512 | 8,070 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 9 **Sollwert:** 16,639 µg/L (empirischer Wert)
Merkmal: Dibromchlormethan **Rel. Soll-Stdabw.:** 15,37% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 11,861 - 22,211 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 15,600 | | -0,435 | 15,600 |
| 005 | 19,410 | | 0,995 | 19,410 |
| 017 | 12,410 | | -1,770 | 12,410 |
| 023 | 14,700 | | -0,812 | 14,700 |
| 024 | 16,770 | | 0,047 | 16,770 |
| 027 | 11,500 | | -2,151 | 11,500 |
| 030 | 15,600 | | -0,435 | 15,600 |
| 033 | 17,900 | | 0,452 | 17,900 |
| 034 | 15,600 | | -0,435 | 15,600 |
| 041 | 17,800 | | 0,417 | 17,800 |
| 042 | 20,100 | | 1,242 | 20,100 |
| 044 | 17,487 | | 0,304 | 17,487 |
| 051 | 14,300 | | -0,979 | 14,300 |
| 058 | 16,780 | | 0,050 | 16,780 |
| 059 | 11,800 | | -2,025 | 11,800 |
| 065 | 14,389 | | -0,942 | 14,389 |
| 069 | 15,800 | | -0,351 | 15,800 |
| 071 | 13,700 | | -1,230 | 13,700 |
| 072 | 13,500 | | -1,314 | 13,500 |
| 073 | 14,210 | | -1,017 | 14,210 |
| 075 | 19,200 | | 0,919 | 19,200 |
| 076 | 17,660 | | 0,366 | 17,660 |
| 080 | 18,800 | | 0,776 | 18,800 |
| 081 | 20,400 | | 1,350 | 20,400 |
| 082 | 18,700 | | 0,740 | 18,700 |
| 083 | 14,500 | | -0,895 | 14,500 |
| 084 | 17,816 | | 0,422 | 17,816 |
| 090 | 20,300 | | 1,314 | 20,300 |
| 096 | 15,100 | | -0,644 | 15,100 |
| 097 | 18,000 | | 0,488 | 18,000 |
| 100 | 18,400 | | 0,632 | 18,400 |
| 105 | 15,214 | | -0,597 | 15,214 |
| 113 | 16,015 | | -0,261 | 16,015 |
| 118 | 17,900 | | 0,452 | 17,900 |
| 122 | 17,780 | | 0,409 | 17,780 |
| 123 | 16,100 | | -0,226 | 16,100 |
| 124 | 22,830 | | 2,222 | 22,830 |
| 127 | 15,500 | | -0,477 | 15,500 |
| 128 | 18,000 | | 0,488 | 18,000 |
| 129 | 17,100 | | 0,165 | 17,100 |
| 132 | 17,200 | | 0,201 | 17,200 |



PROLab

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 9 **Sollwert:** 11,910 µg/L (empirischer Wert)
Merkmal: Tribrommethan **Rel. Soll-Stdabw.:** 16,34% (Limited)
Anzahl Labore in Berechnung: 41 **Toleranzbereich:** 8,287 - 16,176 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 11,800 | | -0,061 | 11,800 |
| 005 | 14,770 | | 1,341 | 14,770 |
| 017 | 8,600 | | -1,827 | 8,600 |
| 023 | 10,100 | | -0,999 | 10,100 |
| 024 | 11,657 | | -0,140 | 11,657 |
| 027 | 8,150 | | -2,075 | 8,150 |
| 030 | 11,900 | | -0,006 | 11,900 |
| 033 | 11,900 | | -0,006 | 11,900 |
| 034 | 11,900 | | -0,006 | 11,900 |
| 041 | 13,300 | | 0,651 | 13,300 |
| 042 | 13,300 | | 0,651 | 13,300 |
| 044 | 15,590 | | 1,725 | 15,590 |
| 051 | 10,200 | | -0,944 | 10,200 |
| 058 | 11,650 | | -0,144 | 11,650 |
| 059 | 8,300 | | -1,993 | 8,300 |
| 065 | 9,846 | | -1,139 | 9,846 |
| 069 | 8,980 | | -1,617 | 8,980 |
| 071 | 9,800 | | -1,165 | 9,800 |
| 072 | 10,400 | | -0,834 | 10,400 |
| 073 | 10,900 | | -0,558 | 10,900 |
| 075 | 12,000 | | 0,042 | 12,000 |
| 076 | 13,790 | | 0,881 | 13,790 |
| 080 | 14,500 | | 1,214 | 14,500 |
| 081 | 13,900 | | 0,933 | 13,900 |
| 082 | 15,800 | | 1,824 | 15,800 |
| 083 | 11,400 | | -0,282 | 11,400 |
| 084 | 13,099 | | 0,557 | 13,099 |
| 090 | 13,400 | | 0,698 | 13,400 |
| 096 | 10,800 | | -0,613 | 10,800 |
| 097 | 11,500 | | -0,226 | 11,500 |
| 100 | 13,500 | | 0,745 | 13,500 |
| 105 | 11,304 | | -0,335 | 11,304 |
| 113 | 12,326 | | 0,195 | 12,326 |
| 118 | 12,800 | | 0,417 | 12,800 |
| 122 | 11,820 | | -0,050 | 11,820 |
| 123 | 10,700 | | -0,668 | 10,700 |
| 124 | 14,440 | | 1,186 | 14,440 |
| 127 | 11,900 | | -0,006 | 11,900 |
| 128 | 12,700 | | 0,370 | 12,700 |
| 129 | 11,800 | | -0,061 | 11,800 |
| 132 | 11,600 | | -0,171 | 11,600 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 9 **Sollwert:** 5,814 µg/L (empirischer Wert)
Merkmal: Benzol **Rel. Soll-Stdabw.:** 12,17% (Limited)
Anzahl Labore in Berechnung: 40 **Toleranzbereich:** 4,475 - 7,327 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 5,330 | | -0,723 | 5,330 |
| 005 | 6,177 | | 0,480 | 6,177 |
| 017 | 4,460 | | -2,022 | 4,460 |
| 023 | 4,550 | | -1,888 | 4,550 |
| 024 | 5,843 | | 0,038 | 5,843 |
| 027 | 5,930 | | 0,153 | 5,930 |
| 030 | 6,290 | | 0,629 | 6,290 |
| 033 | 6,390 | | 0,762 | 6,390 |
| 034 | 6,070 | | 0,338 | 6,070 |
| 041 | 6,410 | | 0,788 | 6,410 |
| 042 | 6,490 | | 0,894 | 6,490 |
| 044 | 6,318 | | 0,666 | 6,318 |
| 051 | 4,900 | | -1,365 | 4,900 |
| 058 | 5,400 | | -0,619 | 5,400 |
| 059 | 4,120 | | -2,530 | 4,120 |
| 065 | 4,716 | | -1,640 | 4,716 |
| 069 | 5,860 | | 0,061 | 5,860 |
| 071 | 5,090 | | -1,081 | 5,090 |
| 072 | 5,640 | | -0,260 | 5,640 |
| 073 | 5,480 | | -0,499 | 5,480 |
| 075 | 6,730 | | 1,211 | 6,730 |
| 076 | 5,940 | | 0,166 | 5,940 |
| 081 | 6,460 | | 0,854 | 6,460 |
| 083 | 6,400 | | 0,775 | 6,400 |
| 084 | 6,603 | | 1,043 | 6,603 |
| 085 | 6,315 | | 0,662 | 6,315 |
| 090 | 6,440 | | 0,828 | 6,440 |
| 096 | 41,700 | | 47,457 | 41,700 |
| 097 | 5,750 | | -0,096 | 5,750 |
| 100 | 5,610 | | -0,305 | 5,610 |
| 105 | 5,540 | | -0,409 | 5,540 |
| 113 | 5,369 | | -0,665 | 5,369 |
| 114 | 6,080 | | 0,352 | 6,080 |
| 118 | 5,960 | | 0,193 | 5,960 |
| 122 | 5,784 | | -0,045 | 5,784 |
| 123 | 5,560 | | -0,380 | 5,560 |
| 124 | 8,260 | | 3,234 | 8,260 |
| 127 | 5,140 | | -1,007 | 5,140 |
| 128 | 5,690 | | -0,185 | 5,690 |
| 129 | 6,200 | | 0,510 | 6,200 |

Trinkwasser Ringversuch O2: LHKW/Benzol

Probe: Niveau 9 **Sollwert:** 1,979 µg/L (empirischer Wert)
Merkmal: Vinylchlorid **Rel. Soll-Stdabw.:** 25,00% (Limited)
Anzahl Labore in Berechnung: 28 **Toleranzbereich:** 1,085 - 3,127 µg/L (|Zu-Score| <= 2,000)

| Laborcode | Labormittelwert | Stdabw. | Zu-Score | Messwert |
|-----------|-----------------|---------|----------|----------|
| 001 | 1,880 | | -0,222 | 1,880 |
| 005 | 0,848 | | -2,530 | 0,848 |
| 017 | 1,560 | | -0,938 | 1,560 |
| 024 | 2,209 | | 0,400 | 2,209 |
| 033 | 2,350 | | 0,646 | 2,350 |
| 034 | 1,930 | | -0,110 | 1,930 |
| 041 | 2,080 | | 0,176 | 2,080 |
| 042 | 3,360 | | 2,405 | 3,360 |
| 044 | 2,826 | | 1,475 | 2,826 |
| 051 | 1,070 | | -2,034 | 1,070 |
| 058 | 2,320 | | 0,594 | 2,320 |
| 059 | 1,270 | | -1,586 | 1,270 |
| 069 | 1,820 | | -0,356 | 1,820 |
| 071 | 2,140 | | 0,280 | 2,140 |
| 072 | 2,020 | | 0,071 | 2,020 |
| 073 | 1,770 | | -0,468 | 1,770 |
| 076 | 0,975 | | -2,246 | 0,975 |
| 081 | 2,570 | | 1,029 | 2,570 |
| 083 | 1,700 | | -0,625 | 1,700 |
| 085 | 3,009 | | 1,794 | 3,009 |
| 090 | 3,000 | | 1,778 | 3,000 |
| 096 | | | | |
| 097 | 2,090 | | 0,193 | 2,090 |
| 105 | 1,344 | | -1,421 | 1,344 |
| 113 | 1,039 | | -2,103 | 1,039 |
| 122 | 2,059 | | 0,139 | 2,059 |
| 123 | 3,110 | | 1,970 | 3,110 |
| 127 | 1,460 | | -1,161 | 1,460 |
| 128 | 2,050 | | 0,123 | 2,050 |

Ende des Berichts