

# **Proficiency Testing Scheme für die Wasseranalytik - Realproben M150 Metalle**

**Proficiency Testing Scheme for Water  
Analysis - natural water samples  
M150 Metals and trace elements**

## **BERICHT / REPORT**

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## D1. Beschreibung des Ringversuchs

### D1.1. Ausgestaltung und Durchführung

- Anzahl der Anmeldungen: 34
- Anzahl der übermittelten Datensätze: 31
- Probenversand: 11.02.2020
- Einsendeschluss der Daten: 10.03.2020

Die Ergebnisabgabe erfolgte auf elektronischem Weg mittels passwortgeschützter Online-Dateneingabe. Beim Abschluss der Dateneingabe bestätigte der Teilnehmer die vollständige und korrekte Eingabe aller Daten und die Freigabe der Ergebnisse zur Auswertung.

Zur Anonymisierung der Ergebnisse wurde jedem Labor willkürlich ein Laborcode zugeteilt.

### D1.2. Beschreibung der Prüfgegenstände

Die Probenahme von Grundwasser erfolgte am 07.02.2020 und die Probenahme von Oberflächenwasser erfolgte am 06.02.2020. Das Probenmaterial umfasste:

- 1 Probe Grundwasser (M150 A)
- 1 Probe Oberflächenwasser (M150 B)

Alle Proben wurden über 0,45 µm Membranfilter filtriert und anschließend bis zur weiteren Verarbeitung bei < 4 °C gelagert. Die o.a. Proben wurden zusätzlich mit einzelnen Substanzen dotiert.

Das Abfüllen der Proben erfolgte unter ständigem Rühren (Rührkessel). Die Proben wurden mit 1 % HNO<sub>3</sub> bzw. 1 % HCl (nur Abfüllung für Parameter Hg) stabilisiert.

Die homogenen Prüfgegenstände wurden am 11.02.2020 verschickt.

Jedes Teilnehmerlabor erhielt:

- 2 Proben zu je ca. 350 ml, abgefüllt in je 1 x 250 ml LDPE-Flasche und 1 x 100 ml LDPE-Flasche (für Hg).

### D1.3. Anweisungen für die Teilnehmer

Aus Stabilitätsgründen wurde empfohlen bis spätestens 19.02.2020 mit den Analysen zu beginnen.

Den Teilnehmern stand die Wahl der Analysenmethode bzw. der verwendeten Norm frei, welche mit ihrem Routineverfahren übereinstimmen sollte.

### D1.4. Kontrollanalytik zur Bewertung der Homogenität

Im Zuge der Abfüllung wurden zu willkürlichen Zeitpunkten mehrere Aliquote pro Probe zur Kontrollanalytik entnommen.

Es wurden für die A- bzw. B-Probe jeweils n=5 Kontrollproben sowie n=1 undotierte Realprobe dem Labor zur Analyse übergeben.

Alle Parameter wurden in der Prüfstelle am Umweltbundesamt (Prüfstelle für Umwelt-, GVO- & Treibstoffanalytik) zeitnah zum Probenversand analysiert.

Im Zuge der Auswertung wurde die relative Standardabweichung zwischen den Kontrollprobenabfüllungen bewertet und mit der Vergleichsstandardabweichung beim aktuellen Ringversuch verglichen.

Die Ergebnisse der Kontrollanalytik sind in der parameterorientierten Auswertung (E7) in Form von Mittelwerten  $\pm$  Messunsicherheit als Kontrollwert (control test value)  $\pm$  U gelistet (jeweils angegeben als erweiterte Messunsicherheit, k=2).

### D1.5. Trendtest zur Bewertung der Stabilität

Die Bewertung der Stabilität der Prüfgegenstände (Realproben) erfolgte auf Basis der Datenstatistik aus den vergangenen Runden für Realproben im Zeitraum 2013 bis 2019.

Um die ausreichende Stabilität der Prüfgegenstände der aktuellen Eignungsprüfungsrounde bis zum Abgabetermin zu überprüfen, wurde die Darstellung der Teilnehmerergebnisse nach Analysendatum ausgewertet und auf systematische Trends geprüft (unauffällig). Durch Darstellung der Teilnehmerergebnisse nach Abfüllreihenfolge wurde auf das Vorliegen möglicher systematischer Trends der Ergebnisse geprüft (unauffällig).

Aufgrund der bisherigen Erfahrungen und aufgrund der Bewertungsgrundlagen der aktuellen Eignungsprüfungsrounde gilt die Stabilität der Prüfgegenstände im empfohlenen Zeitraum für die Analyse bis zum Abgabeschluss als gewährleistet.

## D1.6. Ermittlung des zugewiesenen Wertes

Die Ergebnisse der Analysen mussten spätestens bis zum 10.03.2020 beim Veranstalter vorliegen. Später eingehende Werte wurden nicht berücksichtigt.

Im Zuge der Plausibilitätsprüfung der Daten (z.B. Check korrekte Einheiten, Messunsicherheitsangabe, ...) wurden die Teilnehmer mit auffälligen Ergebnissen zum erneuten Datencheck der Eingabe und um Rückmeldung binnen 24 h aufgefordert.

Nach Abschluss der Plausibilitätsprüfung, wurde der Ausreißertest nach Hampel durchgeführt und die Ausreißer ermittelt. Die von diesem Test auffällig eingestuften Werte wurden in der Auswertung gekennzeichnet („H“). In begründeten Fällen, z.B. wenn der Ausreißertest nach Hampel nicht anwendbar ist (z.B. Ergebnisse liegen sehr eng beieinander oder überwiegend selber Zahlenwert bzw. bei wenig abgegebenen Daten mit sehr hoher Streuung), kann eine Ausreißereliminierung nach weiteren Kriterien erfolgen (z.B. Dean- und Dixon Test bzw. manuelle Ausreißerdefinition aufgrund Expertenbefund). Diese Vorgangsweise wird nach Anwendung unter Punkt D4 des Berichts dokumentiert.

Die weitere Auswertung erfolgte gemäß DIN ISO 5725-2. Eine statistische Auswertung der Ringversuchsdaten erfolgte erst ab zumindest 6 gültigen, nummerischen Ergebnissen pro Parameter. Ergebnisse kleiner Bestimmungs- oder Nachweisgrenze wurden bei den Berechnungen nicht berücksichtigt.

Der zugewiesene Wert wird im Normalfall jeweils als der ausreißerbereinigte Mittelwert über alle übermittelten Ergebnisse gebildet.

Bei sehr hohen Streuungen der Teilnehmerergebnisse von über 50 % und/oder bei mangelhafter Rückführbarkeit der statistischen Kenndaten aus den ausreißerbereinigten Ergebnissen der Teilnehmer auf den Mittelwert des Kontrolllabores bzw. einer zu geringen Anzahl an ausreißerbereinigten Ergebnissen über die Gruppe der akkreditierten Labore, kann die Situation auftreten, dass kein zugewiesener Wert für den aktuellen Ringversuch festgelegt werden kann und daher keine Bewertung der Teilnehmerergebnisse für diesen Parameter möglich ist. Ein entsprechender Hinweis wird im Bericht unter E7 bei der informativen Auswertung angebracht. Im Rahmen der internen Qualitätssicherung der Teilnehmer kann ein Vergleich mit den Ergebnissen des Kontrolllabors durchgeführt werden. Diese Vorgehensweise wird bei Anwendung jeweils parameter- und probenbezogen unter Punkt D4 des Berichts dokumentiert.

## D2. Kriterien der Leistungsbewertung

### D2.1. Leistungskriterium z-Score

Als Basis zur Berechnung der Wiederfindungsraten sowie der z-Scores wurde der ausreißerbereinigte Mittelwert über alle übermittelten Ergebnisse herangezogen.

Die Ermittlung der z-Scores erfolgte gemäß nachfolgender Formel:

$$z\text{-score} = \frac{x_i - \bar{X}}{\text{Kriterium}}$$

Dabei ist:

$x_i$	Messergebnis des teilnehmenden Labors
$\bar{X}$	zugewiesener Wert Sollwert für die Leistungsbewertung der Teilnehmer (angegeben auf 3 signifikante Stellen); im Regelfall: ausreißerbereinigter Mittelwert der Teilnehmerergebnisse. Eine davon abweichende Vorgehensweise wird unter Punkt D4 des Berichts beschrieben.
Kriterium	Vergleichsstandardabweichung berechnet aus den Statistiken für reale Wasserproben der vorangegangenen Runden im Zeitraum 2013 bis 2019 (RSDpooled) bzw. aus den ausreißerbereinigten Teilnehmerergebnissen (sR) des aktuellen Ringversuchs (falls noch weniger als 6 vorangegangene Runden für A und B-Proben vorlagen). In begründeten Fällen (z.B. Ergebnisse Realproben nahe an Mindestbestimmungsgrenze oder regulatorischer Vorgaben) erfolgt die Festlegung nach Expertenbefund und die Vorgangsweise wird unter Punkt D4 des Berichts beschrieben.

### D2.2. Leistungskriterium E<sub>n</sub>-Score

Für die realen Wasserproben erfolgen seit 2019 zusätzliche Bewertungen unter Einbeziehung der erweiterten Messunsicherheiten der Teilnehmer und der erweiterten Messunsicherheit des zugewiesenen Wertes, gemäß E<sub>n</sub>-Score. Diese Auswertungen werden für die Teilnehmer im Bericht unter Punkt E8, jeweils im Anschluss an die z-Score Auswertung dargestellt.

Die Ermittlung der E<sub>n</sub>-Scores erfolgte gemäß nachfolgender Formel:

$$E_n\text{-score} = \frac{x_i - \bar{X}}{\sqrt{U(x_i)^2 + U(\bar{X})^2}}$$

Dabei ist:

$x_i$	Messergebnis des teilnehmenden Labors
$\bar{X}$	zugewiesener Wert Sollwert für die Leistungsbewertung der Teilnehmer (angegeben auf 3 signifikante Stellen); im Regelfall: ausreißerbereinigter Mittelwert der Teilnehmerergebnisse. Eine davon abweichende Vorgehensweise wird unter Punkt D4 des Berichts beschrieben.
$U(x_i)$	erweiterte Messunsicherheit des Messergebnisses (Teilnehmerergebnis)
$U(\bar{X})$	erweiterte Messunsicherheit des zugewiesenen Wertes

### D2.3. Leistungsbewertung z-Score und $E_n$ -Score

#### Interpretation der z-Scores:

- $|z\text{-Score}| \leq 2.0$  Ergebnis gut
- $2.0 < |z\text{-Score}| < 3.0$  Ergebnis fragwürdig
- $|z\text{-Score}| \geq 3.0$  Ergebnis nicht zufriedenstellend

Hinweis: Bei der Bewertung mittels z-Score wird die Messunsicherheit der Teilnehmer nicht berücksichtigt. Der Vergleich der Abweichung zum zugewiesenen Wert erfolgt über das Kriterium.

#### Interpretation der $E_n$ -Scores:

- $|E_n\text{-Score}| \leq 1.0$  zufriedenstellende Leistung
- $|E_n\text{-Score}| > 1.0$  nicht zufriedenstellende Leistung

Hinweis: Bei der Bewertung mittels  $E_n$ -Score erfolgt die Berücksichtigung der erweiterten Messunsicherheiten der Teilnehmer und des zugewiesenen Wertes.  $|E_n\text{-Score}| > 1.0$  können darauf hinweisen, dass die Unsicherheitsschätzungen überprüft oder ein Messproblem korrigiert werden muss.

## D3. Darstellung und Interpretation der Messergebnisse

In der parameterorientierten Auswertung ist eine tabellarische Übersicht mit den Messergebnissen inklusive der Unsicherheit ( $\pm U$ ), der Wiederfindung zum zugewiesenen Wert und dem berechneten z-Score dargestellt. Weiterhin werden unter Anmerkungen die Ausreißer gekennzeichnet. Die in der Tabelle angeführten Ergebnisse werden auch grafisch dargestellt.

In der labororientierten Auswertung werden pro Labor in anonymisierter Form die Ergebnisse der einzelnen Labore als Messergebnis  $\pm$  U sowie die Wiederfindungen und die ermittelten z-Scores bezugnehmend auf das Kriterium dargestellt. Weiters werden die E<sub>n</sub>-Scores unter Berücksichtigung der erweiterten Unsicherheiten in unabhängigen Tabellen ausgegeben. Die labororientierten Auswertungen enthalten jeweils die Bewertungsgrundlagen wie zugewiesener Wert samt erweiterter Messunsicherheit, sowie das Kriterium.

Eine Erläuterung zu den Tabellen und Grafiken kann Punkt D5 entnommen werden.

#### **D4. Anmerkungen zur Auswertung**

Wie unter Punkt D2 ersichtlich, können die z-Scores auch unter Einbeziehung der Vergleichsstandardabweichung der ausreißerbereinigten Teilnehmerergebnisse des aktuellen Ringversuchs berechnet werden. Das kann zur Folge haben, dass es bei Parametern mit hoher Ergebnistreuung dazu kommen kann, dass der Bereich z-Score - 2 bis z-Score + 2 einen ungewöhnlich hohen Wiederfindungsbereich abdeckt. Umgekehrt führt eine sehr geringe Streuung der Teilnehmerergebnisse dazu, dass z-Score - 2 bis z-Score + 2 einen ungewöhnlich kleinen Wiederfindungsbereich abdeckt.

Die Wiederfindungsrate wird unabhängig von der Streuung der Ergebnisse, als prozentuelle Abweichung vom zugewiesenen Wert berechnet und sollte bei der Bewertung von Ergebnissen im Rahmen des internen Qualitätsmanagementsystems der teilnehmenden Labore berücksichtigt werden.

Als Ergebnis einer Langzeitauswertung über aktuell 7 Eignungsprüfungsrunden (2013 - 2019) in Realproben wurden Kriterien (RSDpool) zur Ergebnisbewertung berechnet. Diese wurden im Zuge der Auswertung den relativen Vergleichsstandardabweichungen (vR) des aktuellen Ringversuchs gegenübergestellt.

Parameter Cadmium und Mangan Probe M150 A und Parameter Quecksilber Probe M150 B: Die auf Basis der Teilnehmerergebnisse berechneten Sollwerte lagen außerhalb der Messunsicherheit des Kontrollwertes und es ist über das Kontrolllabor keine Rückführbarkeit möglich. Der zugewiesene Wert wurde daher über die ausreißerbereinigten Mittelwerte aus der Gruppe der akkreditierten Teilnehmer berechnet.

## D5. Erläuterung zu Tabellen und Grafiken

### D5.1. Angaben und Abkürzungen in Tabellen

Parameter	Allgemeine Bezeichnung des Analysenparameters
Probe	Bezeichnung der übermittelten Probe
Einheit	Vorgegebene Einheit für Messwert und Ergebnisunsicherheit (z.B. µg/l)
Zugewiesener Wert	Sollwert für die Leistungsbewertung der Teilnehmer (angegeben auf 3 signifikante Stellen)
U (k=2)	erweiterte Unsicherheit (k=2) des zugewiesenen Wertes, (angegeben auf 3 signifikante Stellen)
Kriterium	Vorgabewert zur Ermittlung des z-Scores in der angegebenen Einheit (angegeben auf 3 signifikante Stellen)
Kriterium [%]	Vorgabewert zur Ermittlung des z-Scores in % des zugewiesenen Wertes (angegeben auf 2 signifikante Stellen)
Mittelwert	Ausreißerbereinigter Mittelwert über die Teilnehmerergebnisse (angegeben auf 3 signifikante Stellen)
VB (99%)	99% Vertrauensbereich (angegeben auf 3 signifikante Stellen)
Minimum	Minimales abgegebenes Messergebnis, ausreißerbereinigt (angegeben auf 3 signifikante Stellen)
Maximum	Maximales abgegebenes Messergebnis, ausreißerbereinigt (angegeben auf 3 signifikante Stellen)
sR	Vergleichsstandardabweichung berechnet aus den ausreißerbereinigten Teilnehmerergebnissen des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)
vR	relative Vergleichsstandardabweichung in %, berechnet aus den ausreißerbereinigten Teilnehmerergebnissen des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 2 signifikante Stellen)
Kontrollwert $\pm$ U (k=2)	Mittelwert der Kontrollmessungen des Veranstalters $\pm$ erweiterte Ergebnisunsicherheit des Kontrollwertes (jeweils angegeben auf 3 signifikante Stellen)
Laborcode	anonymisierte, eindeutige Teilnehmerkennung im jeweiligen Ringversuch
Messwert	einzelne(r) Messwert(e) lt. Teilnehmerangabe (maximal 5 Nachkommastellen dargestellt)

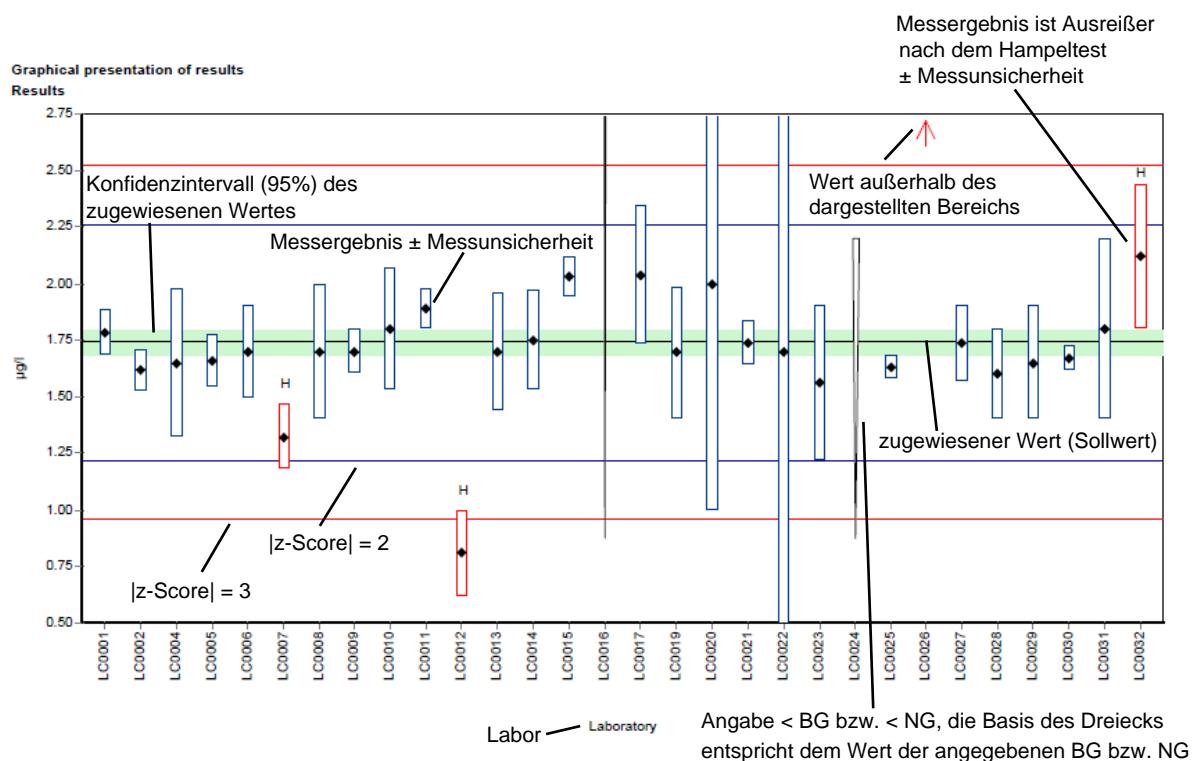
Messergebnis	Für die Bewertung herangezogenes Ergebnis lt. Teilnehmerangabe (maximal 5 Nachkommastellen dargestellt).  Bei Eignungsprüfungsrunden mit Vorgabe von unabhängigen Mehrfachbestimmungen, entspricht dies dem berechneten Mittelwert aus den einzelnen Messwerten der Teilnehmer.
$\pm$ U	Ergebnisunsicherheit lt. Teilnehmerangabe (maximal 5 Nachkommastellen dargestellt)
BG	Bestimmungsgrenze
NG	Nachweisgrenze
WF	Wiederfindungsrate in %, bezogen auf den zugewiesenen Wert (angegeben auf 3 signifikante Stellen, dargestellt maximal 1 Nachkommastelle)
MW	Mittelwert
z-Score	Abweichung des Messergebnisses zum zugewiesenen Wert, ausgedrückt als Vielfaches des Kriteriums (angegeben auf 3 signifikante Stellen, dargestellt maximal 2 Nachkommastellen)
$E_n$ -Score	Abweichung des Messergebnisses zum zugewiesenen Wert, ausgedrückt als Vielfaches der kombinierten Messunsicherheiten, bestehend aus erweiterter Unsicherheit des zugewiesenen Wertes und der erweiterten Unsicherheit der Messergebnisse der Teilnehmer (angegeben auf 3 signifikante Stellen, dargestellt maximal 2 Nachkommastellen).  Beim $E_n$ -Score erfolgt die Berücksichtigung der Messunsicherheit der Teilnehmer.
-	Keine Daten übermittelt bzw. keine Berechnung möglich
Anmerkungen	Anmerkungen zum jeweiligen Messergebnis (z.B. H, FN, FP)
H	Ausreißer nach dem Hampel-Test
FN	Falsch negativ – Messergebnis kleiner Bestimmungs- bzw. Nachweisgrenze dessen Betrag die Bedingungen eines Ausreißers nach dem Hampeltest erfüllt.
FP	Falsch positiv – Falls aufgrund des geringen Analytgehalts kein zugewiesener Wert ermittelt werden kann ( $n < 6$ ), wird der Median der Beträge der übermittelten Nachweis- bzw. Bestimmungsgrenzen ermittelt. Als falsch positiv wird ein Messergebnis bewertet, welches diesen Median um mehr als 100 % übersteigt.

Standardabweichung	Vergleichsstandardabweichung berechnet aus den Teilnehmerergebnissen des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)
rel. Standardabweichung	relative Vergleichsstandardabweichung in %, berechnet aus den Teilnehmerergebnissen des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 3 signifikante Stellen)
n	Anzahl der Messergebnisse

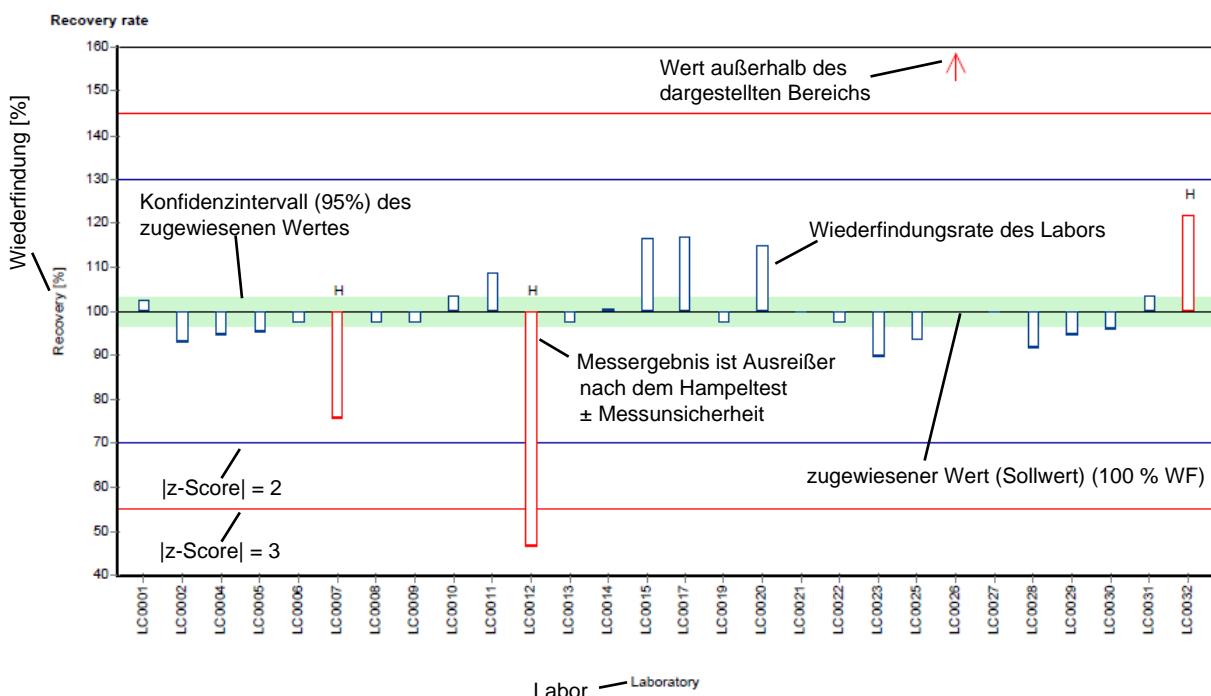
## D5.2. Graphische Darstellung der Ergebnisse

Nachfolgend wird die graphische Darstellung anhand von kommentierten Beispieldiagrammen erläutert.

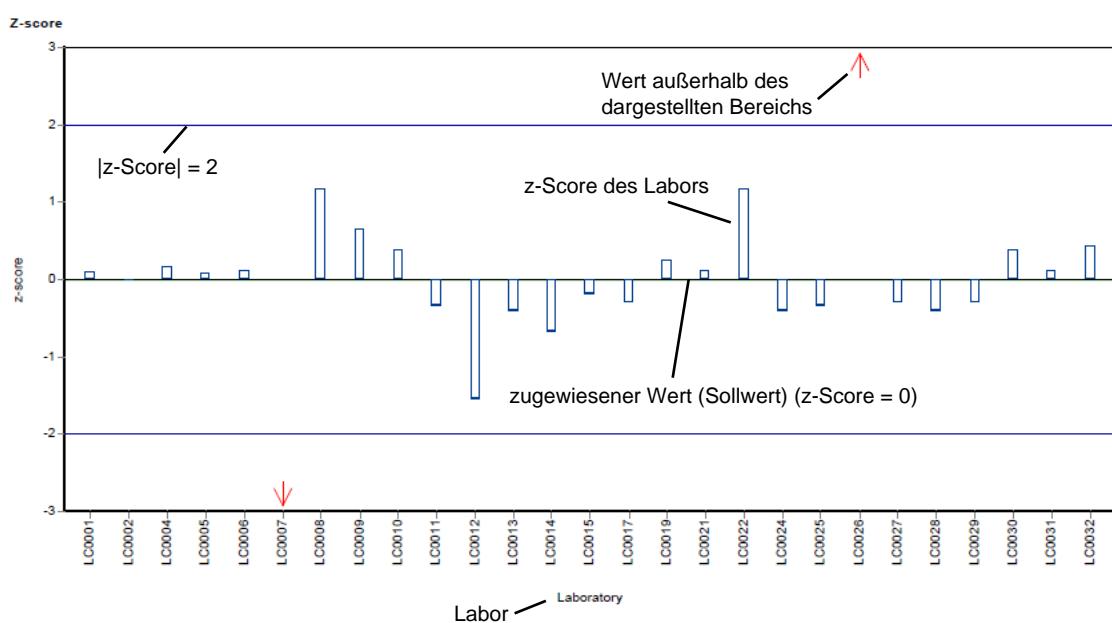
### Beispieldiagramm: Messwerte



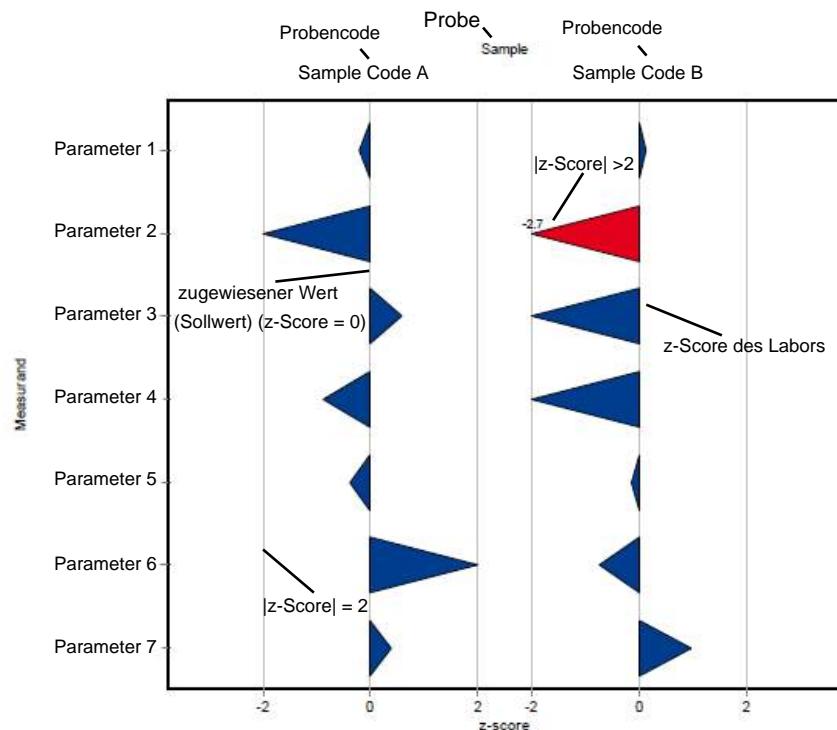
### Beispieldiagramm: Wiederfindung zum zugewiesenen Wert



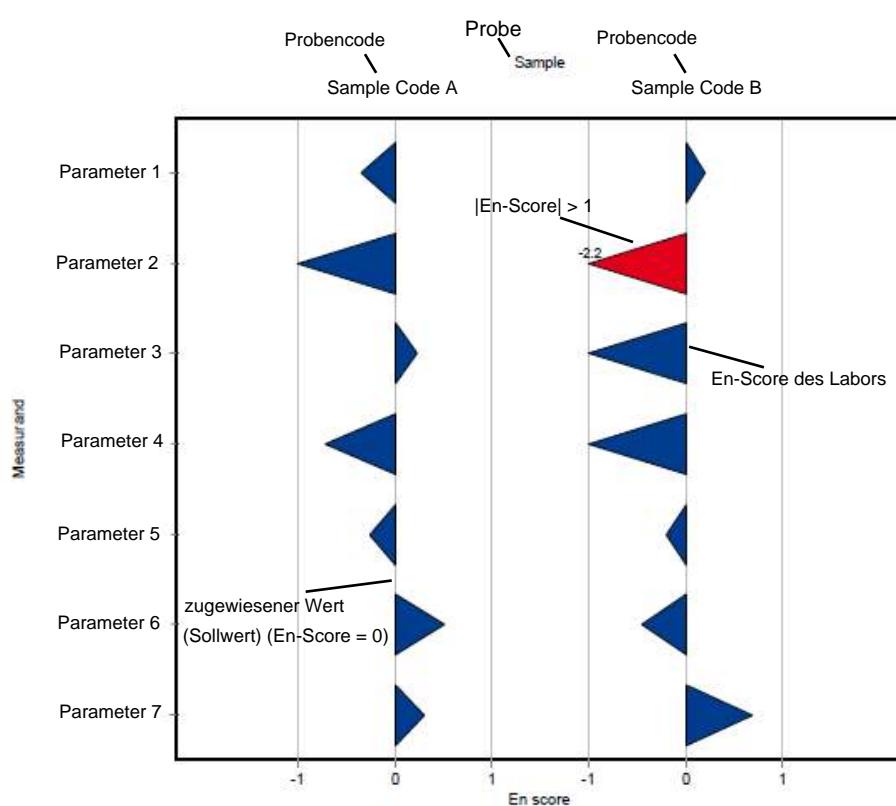
### Beispieldiagramm: z-Score



### Beispieldiagramm: z-Score (labororientierte Auswertung)



### Beispieldiagramm: En-Score (labororientierte Auswertung)



## D6. Zusammenfassung

### D6.1. Tabelle der zugewiesenen Werte

Parameter	Probe	Einheit	zugewiesener Wert	±	U (k=2)	Kriterium	Kriterium [%]
Aluminium	M150 A	µg/l	16.5	± 0.665	2.48	15	
	M150 B	µg/l	171	± 3.57	25.7	15	
Arsen	M150 A	µg/l	1.35	± 0.037	0.175	13	
	M150 B	µg/l	6.65	± 0.205	0.865	13	
Cadmium	M150 A	µg/l	5.5	± 0.0883	0.55	10	
	M150 B	µg/l	0.588	± 0.0125	0.0588	10	
Chrom	M150 A	µg/l	0.913	± 0.0459	0.0776	8.5	
	M150 B	µg/l	0.718	± 0.0472	0.061	8.5	
Kupfer	M150 A	µg/l	7.42	± 0.284	0.668	9	
	M150 B	µg/l	76.9	± 1.7	6.92	9	
Eisen	M150 A	µg/l	269	± 4.67	48.4	18	
	M150 B	µg/l	86.2	± 2.34	15.5	18	
Blei	M150 A	µg/l	0.562	± 0.0335	0.0844	15	
	M150 B	µg/l	2.52	± 0.0972	0.379	15	
Mangan	M150 A	µg/l	2.47	± 0.0899	0.178	7.2	
	M150 B	µg/l	18.1	± 0.349	1.31	7.2	
Quecksilber	M150 A	µg/l	0.8	± 0.0338	0.112	14	
	M150 B	µg/l	2.15	± 0.103	0.301	14	
Nickel	M150 A	µg/l	2.21	± 0.0769	0.265	12	
	M150 B	µg/l	22.4	± 0.703	2.68	12	
Selen	M150 A	µg/l	1.04	± 0.0472	0.125	12	
	M150 B	µg/l	3.45	± 0.179	0.414	12	
Uran	M150 A	µg/l	0.932	± 0.0203	0.0615	6.6	
	M150 B	µg/l	1.19	± 0.0357	0.0785	6.6	
Zink	M150 A	µg/l	30.5	± 0.763	2.74	9	
	M150 B	µg/l	179	± 4.18	16.1	9	

## D6.2. Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse

Parameter	Probe	Anzahl Labors für Berechnung	Anzahl Ausreißer Labors	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
Aluminium	M150 A	26	1	µg/l	16.5	± 0.997	13.7	21	1.7	10
	M150 B	26	2	µg/l	171	± 5.35	150	187	9.1	5.3
Arsen	M150 A	18	7	µg/l	1.35	± 0.0555	1.17	1.57	0.0784	5.8
	M150 B	24	2	µg/l	6.65	± 0.308	5.78	7.73	0.503	7.6
Cadmium	M150 A	26	3	µg/l	5.48	± 0.133	5	5.86	0.225	4.1
	M150 B	25	3	µg/l	0.588	± 0.0187	0.517	0.641	0.0311	5.3
Chrom	M150 A	11	5	µg/l	0.913	± 0.0688	0.847	1.07	0.0761	8.3
	M150 B	13	3	µg/l	0.718	± 0.0709	0.6	0.9	0.0852	12
Kupfer	M150 A	26	2	µg/l	7.42	± 0.426	5.9	8.46	0.724	9.8
	M150 B	27	1	µg/l	76.9	± 2.54	65	83.8	4.4	5.7
Eisen	M150 A	26	1	µg/l	269	± 7	240	297	11.9	4.4
	M150 B	26	2	µg/l	86.2	± 3.51	72.5	101	5.96	6.9
Blei	M150 A	15	2	µg/l	0.562	± 0.0503	0.445	0.7	0.065	12
	M150 B	24	2	µg/l	2.52	± 0.146	1.94	3	0.238	9.4
Mangan	M150 A	17	3	µg/l	2.48	± 0.121	2.31	2.83	0.166	6.7
	M150 B	28	1	µg/l	18.1	± 0.523	16.2	19.8	0.923	5.1
Quecksilber	M150 A	21	2	µg/l	0.8	± 0.0507	0.672	1	0.0775	9.7
	M150 B	22	2	µg/l	2.13	± 0.144	1.69	2.6	0.226	11
Nickel	M150 A	18	6	µg/l	2.21	± 0.115	1.8	2.6	0.163	7.4
	M150 B	27	0	µg/l	22.4	± 1.05	18.7	26.7	1.83	8.2
Selen	M150 A	20	3	µg/l	1.04	± 0.0709	0.9	1.32	0.106	10
	M150 B	21	2	µg/l	3.45	± 0.269	2.4	4.1	0.411	12
Uran	M150 A	13	1	µg/l	0.932	± 0.0305	0.88	1.02	0.0367	3.9
	M150 B	19	0	µg/l	1.19	± 0.0536	1.02	1.33	0.0779	6.5
Zink	M150 A	25	0	µg/l	30.5	± 1.14	26.3	34	1.91	6.3
	M150 B	25	1	µg/l	179	± 6.27	158	200	10.5	5.9

## E1. Description of the proficiency test

### E1.1. Design and implementation

- Number of registrations: 34
- Number of submitted data records: 31
- Dispatch of samples: 11<sup>th</sup> February 2020
- Closing date for submission of data: 10<sup>th</sup> March 2020

The results were submitted electronically through password-protected online data entry. Upon completion of the data entry, the participant confirmed the complete and correct entry of all data and the authorization of the results for evaluation.

To anonymize results, each laboratory was assigned a laboratory code on a random basis.

### E1.2. Description of the proficiency test items

The sampling of the ground water was carried out on 7<sup>th</sup> February 2020 and the sampling of the surface water was carried out on 6<sup>th</sup> February 2020.

The following samples were made available:

- 1 sample ground water (M150 A)
- 1 sample surface water (M150 B)

Both samples were filtered using 0.45 µm membrane disc filters and stored at < 4 °C until further processing. The samples were partly spiked with specific substances.

The samples were filled into bottles under continuous stirring (stirring vessel) and stabilized by addition of 1 % HNO<sub>3</sub> and 1 % HCl (for Hg only), respectively. The homogeneous proficiency test items were dispatched on 11<sup>th</sup> February 2020.

Each participant received:

- 2 samples each approx. 350 ml, filled in 1 x 250 ml LDPE bottle and 1 x 100 ml LDPE bottle (for Hg) respectively.

### **E1.3. Instructions for the participants**

For reasons of stability, it was recommended to start the analysis by the 19<sup>th</sup> February 2020 at the latest.

The participants are expected to use the test method or measurement method of their choice, which should be consistent with their routine procedures.

### **E1.4. Control testing for homogeneity evaluation**

During filling of the bottles, aliquots of each sample were collected randomly for control testing. From each of the samples A and B, n=5 control test samples and n=1 unspiked real water sample were transferred to the laboratory for control testing.

All parameters were tested in the testing laboratory at Environment Agency Austria (Prüfstelle für Umwelt-, GVO- & Treibstoffanalytik) close to the time of sample dispatch.

During evaluation, the relative standard deviation between the individual results of the control test samples was assessed and compared with the reproducibility standard deviation of the current proficiency test.

In the parameter-oriented evaluation (E7), the results of the control testing are given in the form of arithmetic means of the detected concentrations  $\pm$  expanded measurement uncertainty as control test value  $\pm U$  (expanded uncertainty, k=2).

### **E1.5. Trend test for stability evaluation**

The evaluation of stability of the proficiency test items was performed using data statistics of previous results of proficiency testing rounds for real water samples during the period 2013 to 2019.

The assessment of the stability of the proficiency test items of the current round was carried out by evaluation of all participant results sorted by analysis date (until submission deadline): No systematic trends were identified.

Using all participant results, it was furthermore tested if systematic trends could be detected depending on the order in which the bottles were filled for the proficiency test: No systematic trends could be identified.

According to data obtained from previous rounds for real water samples from 2013 to 2019 and based on the trend test evaluation of the current round, the stability of the test items for proficiency testing of real water samples can be confirmed for the recommended analysis period until deadline for submission of data.

## E1.6. Determination of the assigned values

The analytical results had to be made available to the organiser not later than 10<sup>th</sup> March 2020. Any values received at a later date were not considered.

In the course of the plausibility assessment of all received data (e.g. check for correct units, indication of measurement uncertainty,...) participants with noticeable results were asked to perform a subsequent data check and to give a prompt feedback within 24 h.

After plausibility assessment, an outlier test according to Hampel was performed to identify outliers. Values identified as conspicuous are marked specifically in the parameter-oriented evaluation ('H').

In justified cases, for instance, when the outlier test according to Hampel is not applicable (e.g. many similar or identical results of the participants or in case of a very limited number of highly scattering results) a different outlier identification method can be applied (e.g. Dean and Dixon outlier test or manual outlier elimination by expert judgement). In such a case, this procedure is documented in section E4 of the report.

Further data evaluation was performed in accordance with DIN ISO 5725-2. A statistical evaluation of proficiency testing data was only carried out if at least 6 valid results per parameter were available. Results < LOQ or < LOD are not included in the calculation of the assigned value.

The assigned values are normally calculated as the mean over all submitted results, after removal of outliers.

For real water samples in some exceptional cases it might occur, that no assigned value based on participants' results can be calculated and no evaluation of the participants results can be made. E.g due to large variations in the participant results ( $\sqrt{R} > 50\%$ ) and/or insufficient traceability of the calculated mean of all participants after outlier-clearing to the mean of control testing or if the number of results (without outliers) of the group of accredited testing laboratories is too low.

In this case, a clear statement in section E7 of the report is made and all provided statistical data are for information only. In section E4 further information is given, when applicable, for each parameter and proficiency test item. In course of the internal quality assurance, the participants can compare their results to the control test values.

## E2. Criteria of performance evaluation

### E2.1. Performance criterion z-Score

The adjusted average value (after removal of outliers) for all submitted results was used as a basis for the calculation of recovery rates and z-scores.

z-Scores were calculated based on the following formula:

$$z\text{-score} = \frac{x_i - \bar{X}}{\text{Criteria}}$$

In this context,

$x_i$	is the measurement value (result) of the participating laboratory
$\bar{X}$	assigned value
Criteria	the target value for the assessment of the performance of the participants (3 significant digits), normally the average value of the participants' results after removal of outliers; if this approach is not applicable, the target value is assigned according to the procedure given in section E4
	is the reproducibility standard deviation calculated from previous rounds for proficiency testing for real water samples from 2013 to 2019 (as RSD pooled) or from the participants' results after removal of outliers (sR) in the current round (if less than 6 previous rounds for the parameters of real water samples A and B are available).

Where justified (e.g. results for real water samples are close to minimum quantification limit or in case of regulatory requirements) the criteria is defined by expert judgement and the procedure is clearly described in section E4 of the report.

### E2.2. Performance criterion E<sub>n</sub>-Score

Since 2019 additional assessment of the participants' results using E<sub>n</sub>-Scores for proficiency testing of real water samples is performed. This additional assessment takes into account the expanded measurement uncertainties of the participants results and the expanded uncertainty of the assigned value and is provided in the laboratory oriented part of the report (see E8 after the z-scores evaluation).

E<sub>n</sub>-Scores were calculated based on the following formula:

$$E_n\text{-score} = \frac{x_i - \bar{X}}{\sqrt{U(x_i)^2 + U(\bar{X})^2}}$$

In this context,

$x_i$	is the measurement value (result) of the participating laboratory
$\bar{X}$	assigned value the target value for the assessment of the performance of the participants (3 significant digits), normally the average value of the participants' results after removal of outliers; if this approach is not applicable, the target value is assigned according to the procedure given in section E4
$U(x_i)$	expanded measurement uncertainty for the result of the participating laboratory
$U(\bar{X})$	expanded measurement uncertainty for the assigned value

### E2.3. Performance evaluation z-Score and $E_n$ -Score

#### Interpretation of z-Scores:

- $|z\text{-Score}| \leq 2.0$  good result
- $2.0 < |z\text{-Score}| < 3.0$  questionable result
- $|z\text{-Score}| \geq 3.0$  unsatisfactory result

Note: In case of assessment of the participants' performance by z-scores the measurement uncertainty of the participants' results is not taken into account. The difference between the results of participants and the assigned value is evaluated by the criteria.

#### Interpretation of $E_n$ -Scores:

- $|E_n\text{-Score}| \leq 1.0$  satisfactory performance
- $|E_n\text{-Score}| > 1.0$  unsatisfactory performance

Note: In case of assessment of the participants' performance by  $E_n$ -Scores the expanded measurement uncertainties for the results and for the assigned values are taken into account.  $|E_n\text{-Score}| > 1.0$  might indicate to check the measurement uncertainty estimation or to correct a measurement problem.

## E3. Representation and interpretation of measurement results

The parameter-oriented report provides the measurement values (results) including uncertainty ( $\pm U$ ), recovery rate, calculated z-Score and outliers in tabular form. The results listed in the table are also represented graphically.

The laboratory oriented report shows the results of the individual laboratories (anonymous), including the measurement uncertainty ( $\pm U$ ), recovery rates, z-Scores and additionally the evaluation of  $E_n$ -Scores on separate pages.

The tables also contain the evaluation basis such as the assigned values including expanded measurement uncertainties and the criteria.

An annotation of the tables and graphics is given in section E5.

#### **E4. Explanatory notes**

As explained in section E2, the z-Score can also be calculated using the reproducibility standard deviation, calculated from the participants' results (after removal of outliers) in the relevant test round. It might occur that the z-Score between -2 and 2 covers a large range of measurement values when the variance of the results is high. On the other hand, the range of good results can be very narrow, when the variation of the participants' results is small.

The recovery rate is calculated for the individual result based on the assigned value and is thus independent of the reproducibility standard deviation. In case of a high variance of the results, participants should also consider recovery rates as additional criteria to decide on the necessity of internal quality assurance measures.

As a result of a long-term evaluation of 7 proficiency testing rounds (2013 - 2019) in real samples, evaluation criteria (RSDpool) were calculated. These criteria were compared with the relative reproducibility standard deviation (sR) of the current proficiency testing.

Parameters cadmium and manganese sample M150 A and parameter mercury sample M150 B: The assigned values calculated based on the participant results were outside the measurement uncertainty of the control value and thus traceability could not be proven by this procedure. Therefore, new assigned values were defined by the group of accredited participating laboratories after outlier-assessment.

## E5. Annotations on tables and charts

### E5.1. Information and abbreviations in tables

Parameter	Analyte identifier
Sample	Sample identifier
Unit	Given unit for result and uncertainty (e.g. µg/l)
Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criterion	Specified value for the determination of the z-score in the given unit (3 significant digits)
Criterion [%]	Specified value for the determination of the z-score in % of the assigned value (3 significant digits)
Mean	Mean of the participants results, without outliers (3 significant digits)
CI (99 %)	99% confidence interval (3 significant digits)
Minimum	Minimum of all submitted results, after removal of outliers (3 significant digits)
Maximum	Maximum of all submitted results, after removal of outliers (3 significant digits)
sR	Reproducibility standard deviation, calculated from the participants results, after removal of outliers (3 significant digits)
vR [%]	Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, after removal of outliers (2 significant digits)
Control test value ± U (k=2)	Mean of control test value ± expanded measurement uncertainty (3 significant digits)
Labcode	Laboratory identifier (anonymized)
Result ± U	Result as indicated by participant (max. 5 decimal places) uncertainty as indicated by participant (max. 5 decimal places)
LOQ	Limit of quantification
LOD	Limit of detection
Recovery	Recovery rate in % based on assigned value (target value) (3 significant digits, max. one decimal place given)
z-Score	Deviation of result based on the assigned value (target value) given as a multiple of the criteria (3 significant digits, max. 2 decimal places given)
E <sub>n</sub> -Score	Deviation of result based on the assigned value (target value) given as a multiple of the combined expanded

measurement uncertainty of the participant's results and expanded measurement uncertainty for the assigned value (3 significant digits, max. 2 decimal places given).

Note:  $E_n$ -Score assessment takes into account the measurement uncertainty of the participants.

-

Comments

No data available or no calculation possible

H

Comment on the respective result (e.g. H, FN, FP)

FN

Outlier according to Hampel-Test

FP

False negative – for a result < LOQ or result < LOD: The absolute value of the LOQ or LOD fulfils the condition of an outlier according to the Hampel test.

False positive – for parameters where no target value is available because of a too low analyte content ( $n < 6$ ): Result that exceeds the median of the absolute values of the transmitted LOQs or LODs by more than 100 %.

Standard deviation

Reproducibility standard deviation, calculated from the participants results (3 significant digits)

Rel. standard deviation

Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, (3 significant digits)

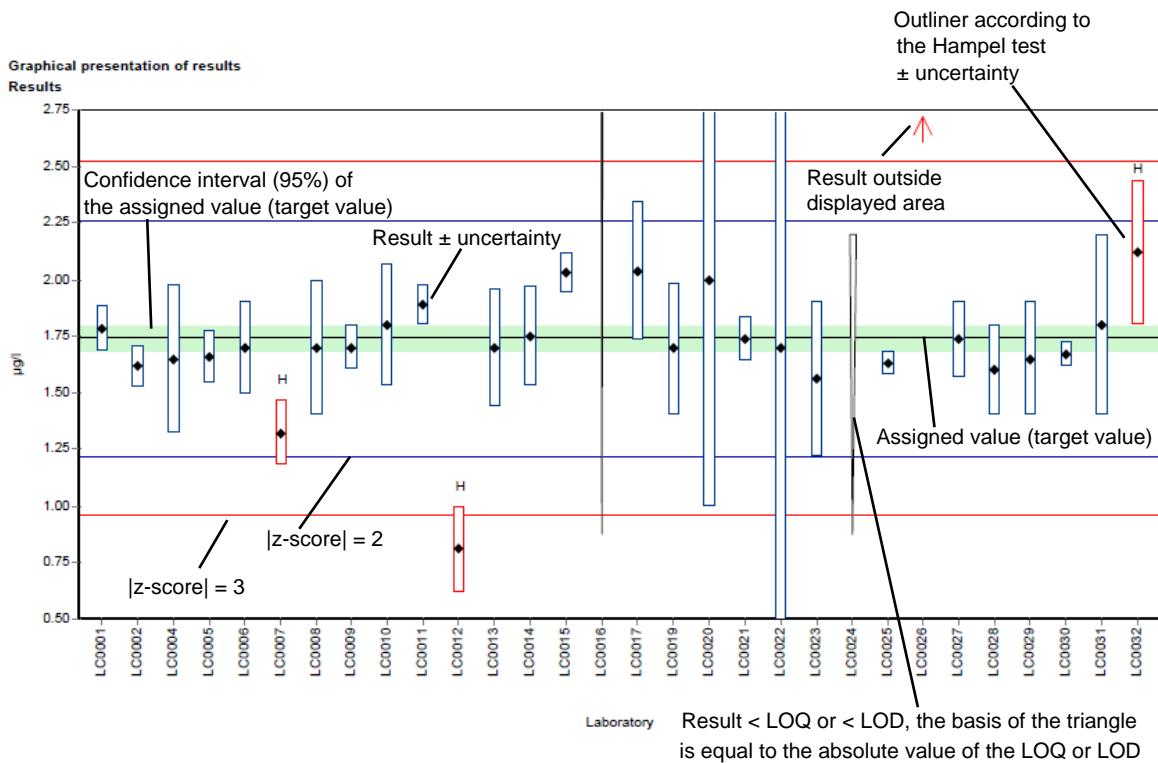
n

Number of results

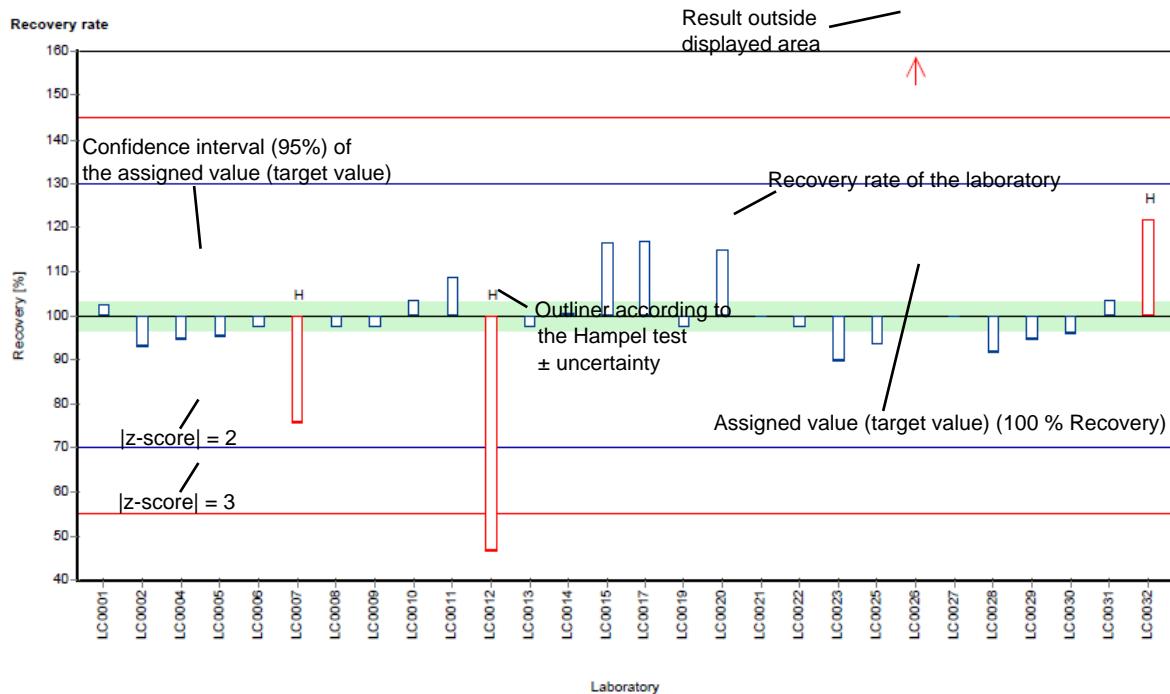
## **E5.2. Graphical presentation of results**

The graphic representation in the report is explained below by means of commented example diagrams:

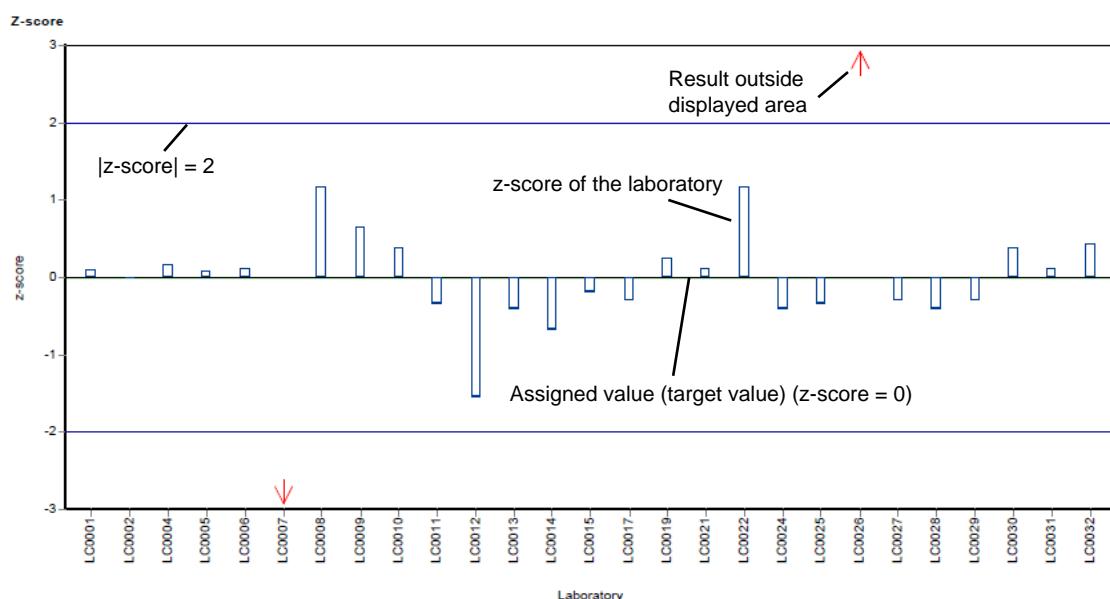
### Example chart: Results



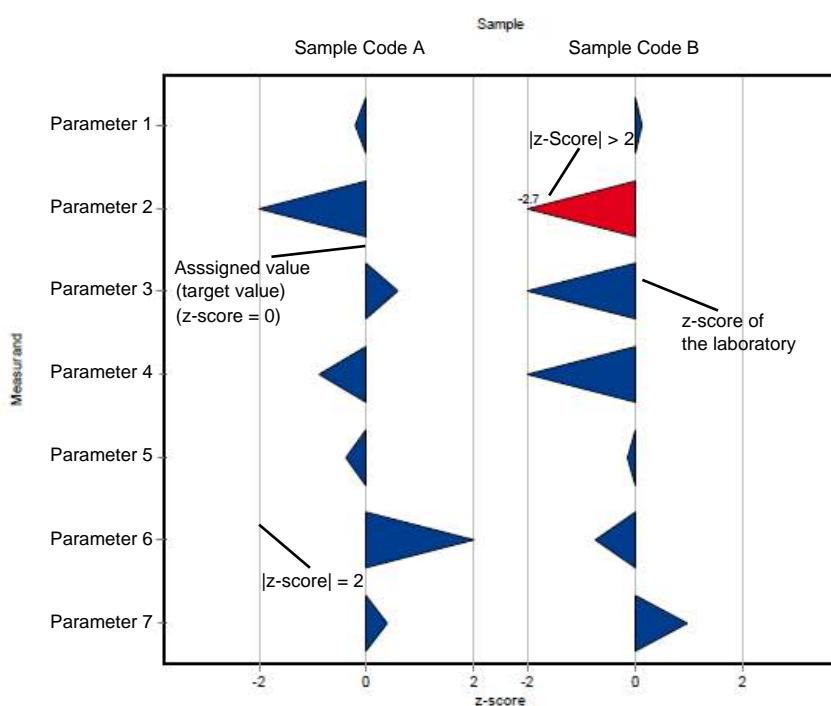
### Example chart: Recovery



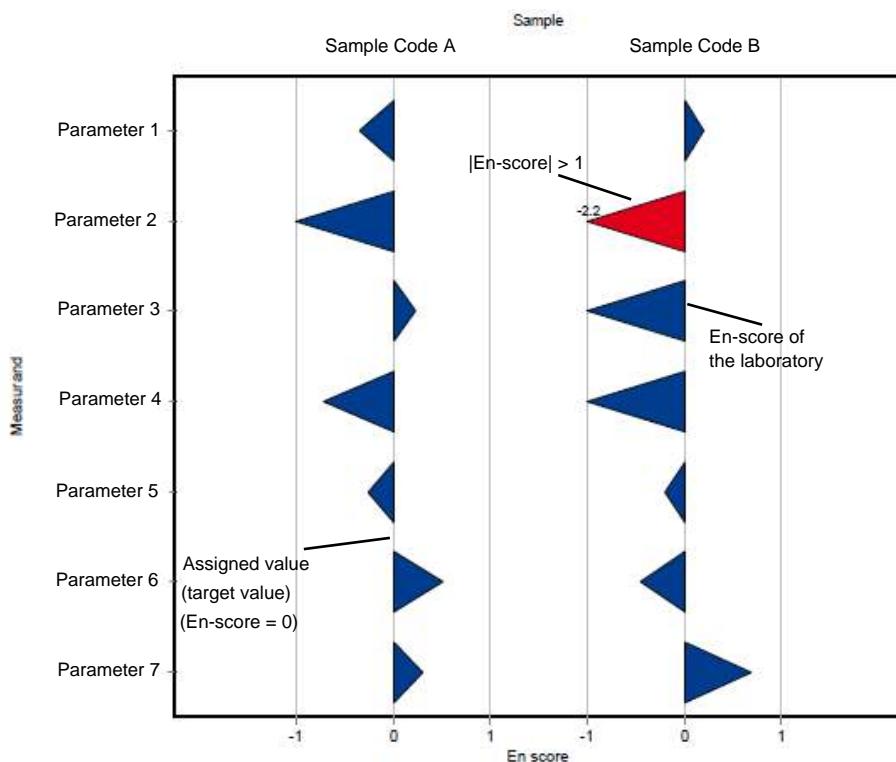
### Example chart: z-score



### Example chart: z-score (laboratory oriented report)



**Example chart: En-score (laboratory oriented report)**



## E6. Summary

### E6.1. Table of assigned values

Parameter	Sample	Unit	Assigned value $\pm$	$U(k=2)$	Criterion	Criterion [%]
Aluminium	M150 A	$\mu\text{g/l}$	16.5 $\pm$	0.665	2.48	15
	M150 B	$\mu\text{g/l}$	171 $\pm$	3.57	25.7	15
Arsenic	M150 A	$\mu\text{g/l}$	1.35 $\pm$	0.037	0.175	13
	M150 B	$\mu\text{g/l}$	6.65 $\pm$	0.205	0.865	13
Cadmium	M150 A	$\mu\text{g/l}$	5.5 $\pm$	0.0883	0.55	10
	M150 B	$\mu\text{g/l}$	0.588 $\pm$	0.0125	0.0588	10
Chromium	M150 A	$\mu\text{g/l}$	0.913 $\pm$	0.0459	0.0776	8.5
	M150 B	$\mu\text{g/l}$	0.718 $\pm$	0.0472	0.061	8.5
Copper	M150 A	$\mu\text{g/l}$	7.42 $\pm$	0.284	0.668	9
	M150 B	$\mu\text{g/l}$	76.9 $\pm$	1.7	6.92	9
Iron	M150 A	$\mu\text{g/l}$	269 $\pm$	4.67	48.4	18
	M150 B	$\mu\text{g/l}$	86.2 $\pm$	2.34	15.5	18
Lead	M150 A	$\mu\text{g/l}$	0.562 $\pm$	0.0335	0.0844	15
	M150 B	$\mu\text{g/l}$	2.52 $\pm$	0.0972	0.379	15
Manganese	M150 A	$\mu\text{g/l}$	2.47 $\pm$	0.0899	0.178	7.2
	M150 B	$\mu\text{g/l}$	18.1 $\pm$	0.349	1.31	7.2
Mercury	M150 A	$\mu\text{g/l}$	0.8 $\pm$	0.0338	0.112	14
	M150 B	$\mu\text{g/l}$	2.15 $\pm$	0.103	0.301	14
Nickel	M150 A	$\mu\text{g/l}$	2.21 $\pm$	0.0769	0.265	12
	M150 B	$\mu\text{g/l}$	22.4 $\pm$	0.703	2.68	12
Selenium	M150 A	$\mu\text{g/l}$	1.04 $\pm$	0.0472	0.125	12
	M150 B	$\mu\text{g/l}$	3.45 $\pm$	0.179	0.414	12
Uranium	M150 A	$\mu\text{g/l}$	0.932 $\pm$	0.0203	0.0615	6.6
	M150 B	$\mu\text{g/l}$	1.19 $\pm$	0.0357	0.0785	6.6
Zinc	M150 A	$\mu\text{g/l}$	30.5 $\pm$	0.763	2.74	9
	M150 B	$\mu\text{g/l}$	179 $\pm$	4.18	16.1	9

## E6.2. Summary of results, after removal of outliers

Parameter	Sample	Number of results for calculation	Number of outliers	Unit	Mean	$\pm$ CI (99%)	Minimum	Maximum	sR	vR [%]
Aluminium	M150 A	26	1	µg/l	16.5	$\pm$ 0.997	13.7	21	1.7	10
	M150 B	26	2	µg/l	171	$\pm$ 5.35	150	187	9.1	5.3
Arsenic	M150 A	18	7	µg/l	1.35	$\pm$ 0.0555	1.17	1.57	0.0784	5.8
	M150 B	24	2	µg/l	6.65	$\pm$ 0.308	5.78	7.73	0.503	7.6
Cadmium	M150 A	26	3	µg/l	5.48	$\pm$ 0.133	5	5.86	0.225	4.1
	M150 B	25	3	µg/l	0.588	$\pm$ 0.0187	0.517	0.641	0.0311	5.3
Chromium	M150 A	11	5	µg/l	0.913	$\pm$ 0.0688	0.847	1.07	0.0761	8.3
	M150 B	13	3	µg/l	0.718	$\pm$ 0.0709	0.6	0.9	0.0852	12
Copper	M150 A	26	2	µg/l	7.42	$\pm$ 0.426	5.9	8.46	0.724	9.8
	M150 B	27	1	µg/l	76.9	$\pm$ 2.54	65	83.8	4.4	5.7
Iron	M150 A	26	1	µg/l	269	$\pm$ 7	240	297	11.9	4.4
	M150 B	26	2	µg/l	86.2	$\pm$ 3.51	72.5	101	5.96	6.9
Lead	M150 A	15	2	µg/l	0.562	$\pm$ 0.0503	0.445	0.7	0.065	12
	M150 B	24	2	µg/l	2.52	$\pm$ 0.146	1.94	3	0.238	9.4
Manganese	M150 A	17	3	µg/l	2.48	$\pm$ 0.121	2.31	2.83	0.166	6.7
	M150 B	28	1	µg/l	18.1	$\pm$ 0.523	16.2	19.8	0.923	5.1
Mercury	M150 A	21	2	µg/l	0.8	$\pm$ 0.0507	0.672	1	0.0775	9.7
	M150 B	22	2	µg/l	2.13	$\pm$ 0.144	1.69	2.6	0.226	11
Nickel	M150 A	18	6	µg/l	2.21	$\pm$ 0.115	1.8	2.6	0.163	7.4
	M150 B	27	0	µg/l	22.4	$\pm$ 1.05	18.7	26.7	1.83	8.2
Selenium	M150 A	20	3	µg/l	1.04	$\pm$ 0.0709	0.9	1.32	0.106	10
	M150 B	21	2	µg/l	3.45	$\pm$ 0.269	2.4	4.1	0.411	12
Uranium	M150 A	13	1	µg/l	0.932	$\pm$ 0.0305	0.88	1.02	0.0367	3.9
	M150 B	19	0	µg/l	1.19	$\pm$ 0.0536	1.02	1.33	0.0779	6.5
Zinc	M150 A	25	0	µg/l	30.5	$\pm$ 1.14	26.3	34	1.91	6.3
	M150 B	25	1	µg/l	179	$\pm$ 6.27	158	200	10.5	5.9

## E7. Parameterorientierte Auswertung / Parameter oriented report

Aluminum .....	32
Arsenic .....	42
Cadmium.....	52
Chromium.....	62
Copper.....	72
Iron.....	82
Lead.....	92
Manganese .....	102
Mercury.....	112
Nickel.....	122
Selenium .....	132
Uranium.....	142
Zinc .....	152

## Parameter oriented report

### M150 A

#### Aluminium

Unit	µg/l
Assigned value ± U (k=2)	16.5 ± 0.665
Criterion	2.48 (15 %)
Minimum - Maximum	13.7 - 21
Control test value ± U (k=2)	17 ± 0.885

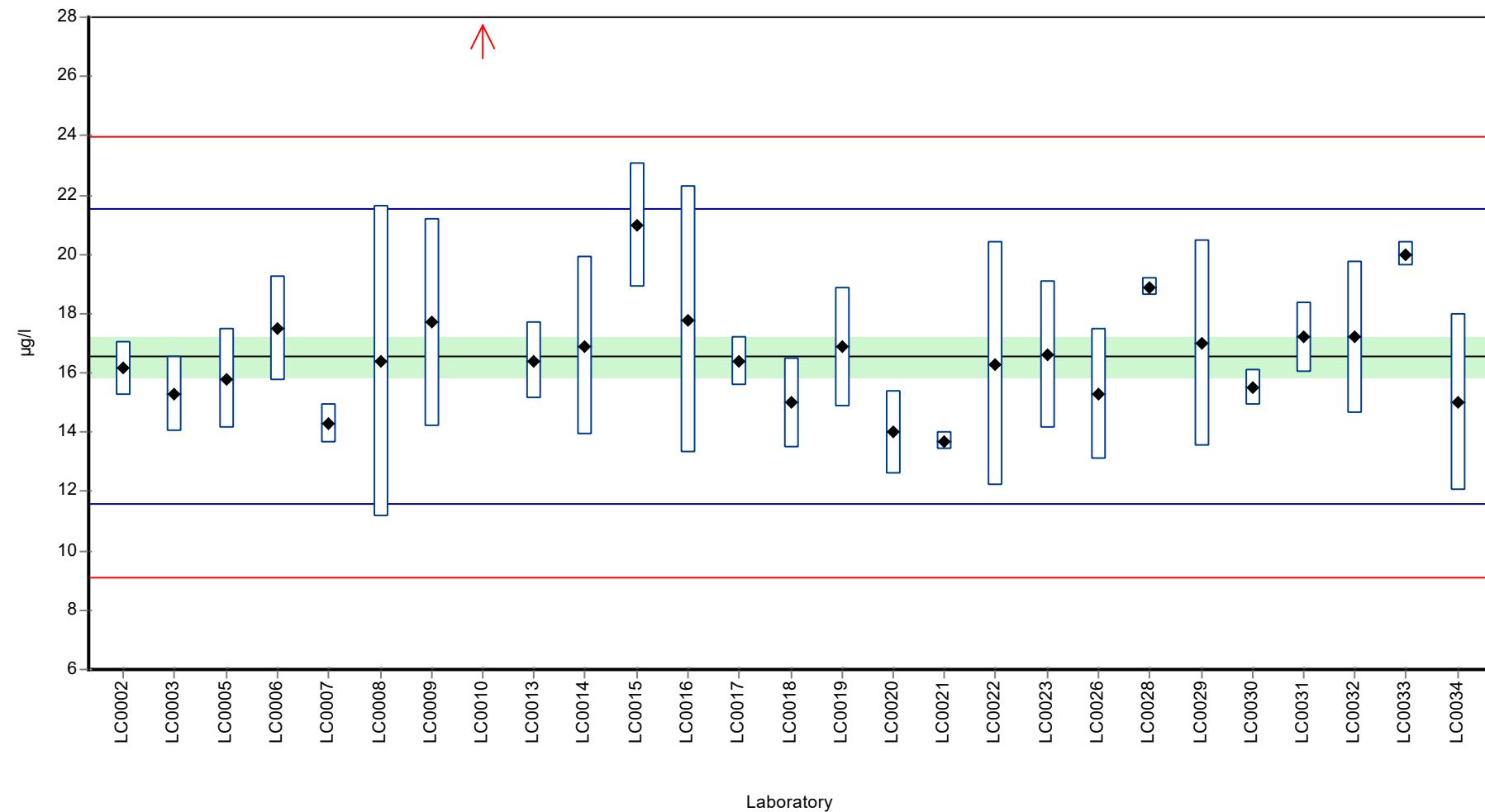
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	16.148	0.917	97.6	-0.16	
LC0003	15.3	1.26	92.5	-0.5	
LC0004	-	-	-	-	
LC0005	15.8	1.7	95.5	-0.3	
LC0006	17.5	1.75	106	0.38	
LC0007	14.3	0.68	86.4	-0.91	
LC0008	16.4	5.24	99.1	-0.06	
LC0009	17.7	3.5	107	0.47	
LC0010	69.3	1.45	419	21.3	H
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	16.4	1.3	99.1	-0.06	
LC0014	16.9	3.01	102	0.14	
LC0015	21	2.1	127	1.79	
LC0016	17.8	4.5	108	0.51	
LC0017	16.4	0.82	99.1	-0.06	
LC0018	14.99	1.5	90.6	-0.63	
LC0019	16.862	2.04	102	0.13	
LC0020	14	1.4	84.6	-1.03	
LC0021	13.71	0.29	82.9	-1.14	
LC0022	16.3	4.1	98.5	-0.1	
LC0023	16.6	2.49	100	0.02	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	15.3	2.2	92.5	-0.5	
LC0027	-	-	-	-	
LC0028	18.9	0.307	114	0.95	
LC0029	17	3.5	103	0.18	
LC0030	15.5	0.6	93.7	-0.42	
LC0031	17.2	1.2	104	0.26	
LC0032	17.2	2.57	104	0.26	
LC0033	20	0.4	121	1.39	
LC0034	15	3	90.7	-0.62	

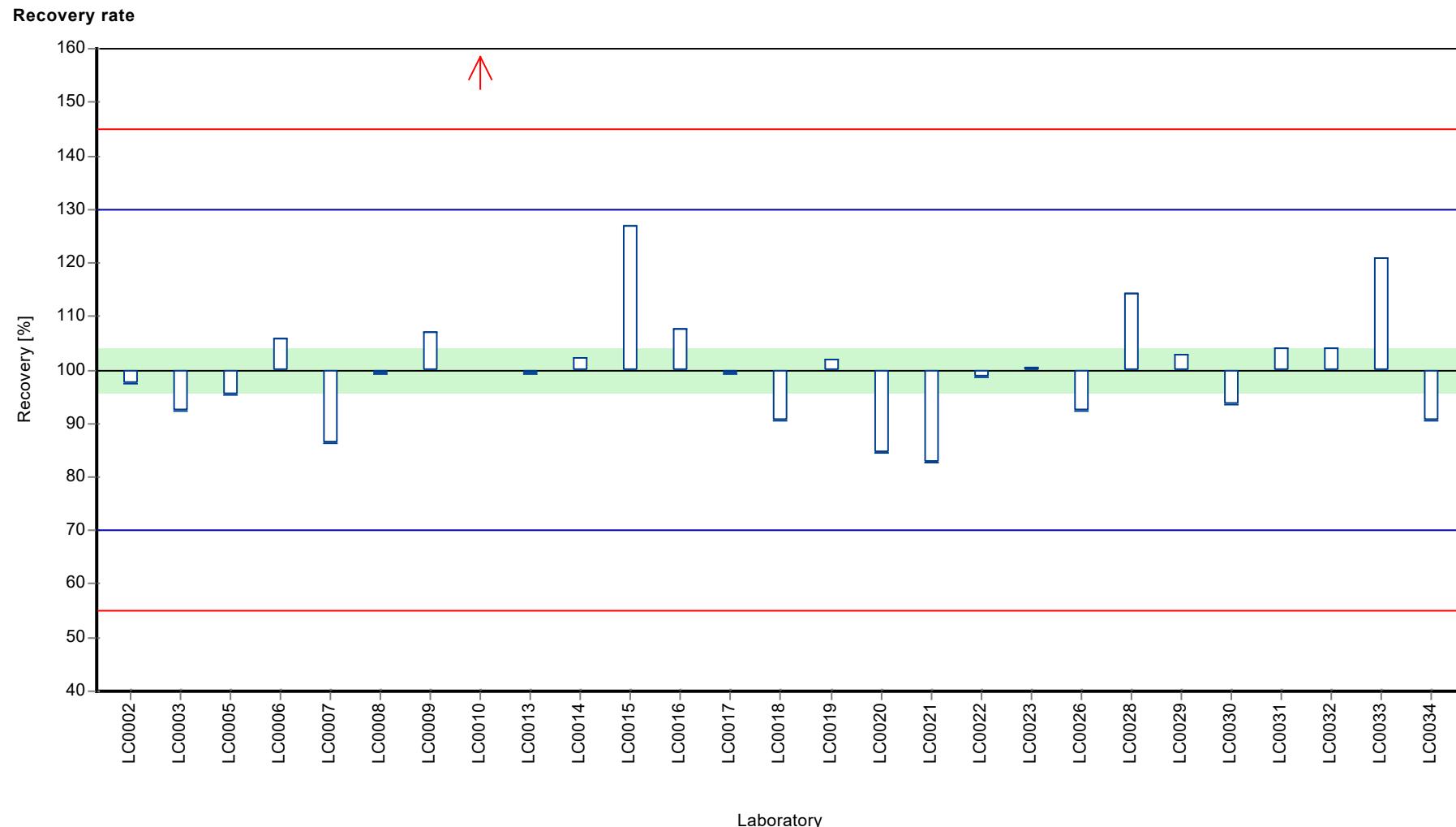
**Characteristics of parameter**

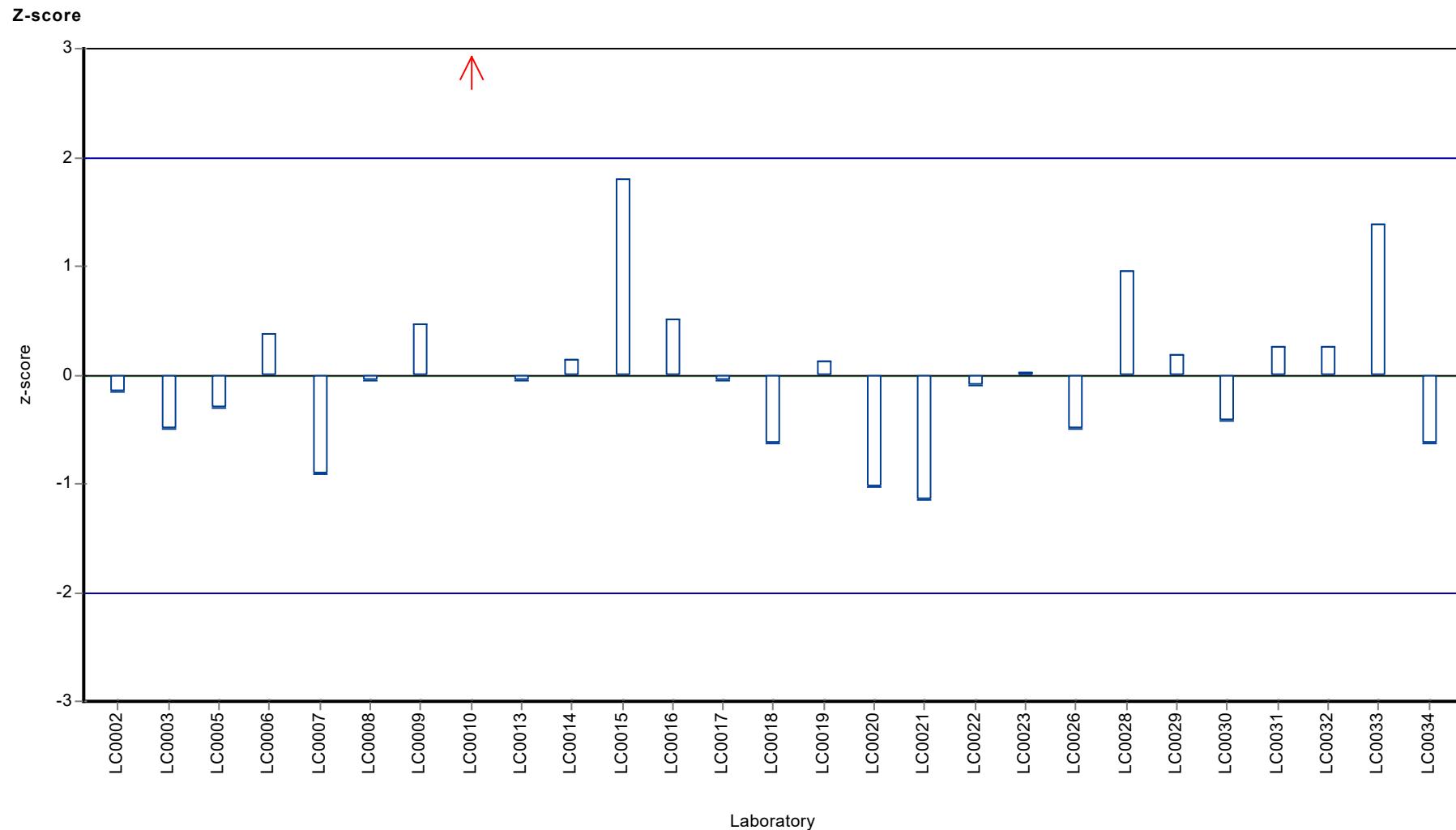
	all results	without outliers	Unit
Mean ± CI (99%)	18.5 ± 5.94	16.5 ± 0.997	µg/l
Minimum	13.7	13.7	µg/l
Maximum	69.3	21	µg/l
Standard deviation	10.3	1.7	µg/l
rel. standard deviation	55.6	10.2	%
n	27	26	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 B

#### Aluminium

Unit	µg/l
Assigned value ± U (k=2)	171 ± 3.57
Criterion	25.7 (15 %)
Minimum - Maximum	150 - 187
Control test value ± U (k=2)	180 ± 9.7

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	150	10.7	87.6	-0.83	
LC0002	163.766	9.302	95.6	-0.29	
LC0003	187	15.4	109	0.61	
LC0004	-	-	-	-	
LC0005	167	18	97.5	-0.17	
LC0006	175.3	1.75	102	0.16	
LC0007	176	6.7	103	0.18	
LC0008	181	57.6	106	0.38	
LC0009	187	37	109	0.61	
LC0010	228	4.75	133	2.21	H
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	176	3	103	0.18	
LC0014	171	31	99.9	-0.01	
LC0015	176	17.6	103	0.18	
LC0016	154.4	38.6	90.2	-0.66	
LC0017	172	8.6	100	0.03	
LC0018	177.79	20	104	0.26	
LC0019	173.25	20.96	101	0.08	
LC0020	167	17	97.5	-0.17	
LC0021	154	4	89.9	-0.67	
LC0022	170	15	99.3	-0.05	
LC0023	166	25	96.9	-0.2	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	165	20	96.4	-0.24	
LC0027	-	-	-	-	
LC0028	177	8.94	103	0.22	
LC0029	0.18	0.032	0.1	-6.66	H
LC0030	176	5	103	0.18	
LC0031	167	12	97.5	-0.17	
LC0032	173	26	101	0.07	
LC0033	170	3.4	99.3	-0.05	
LC0034	180	36	105	0.34	

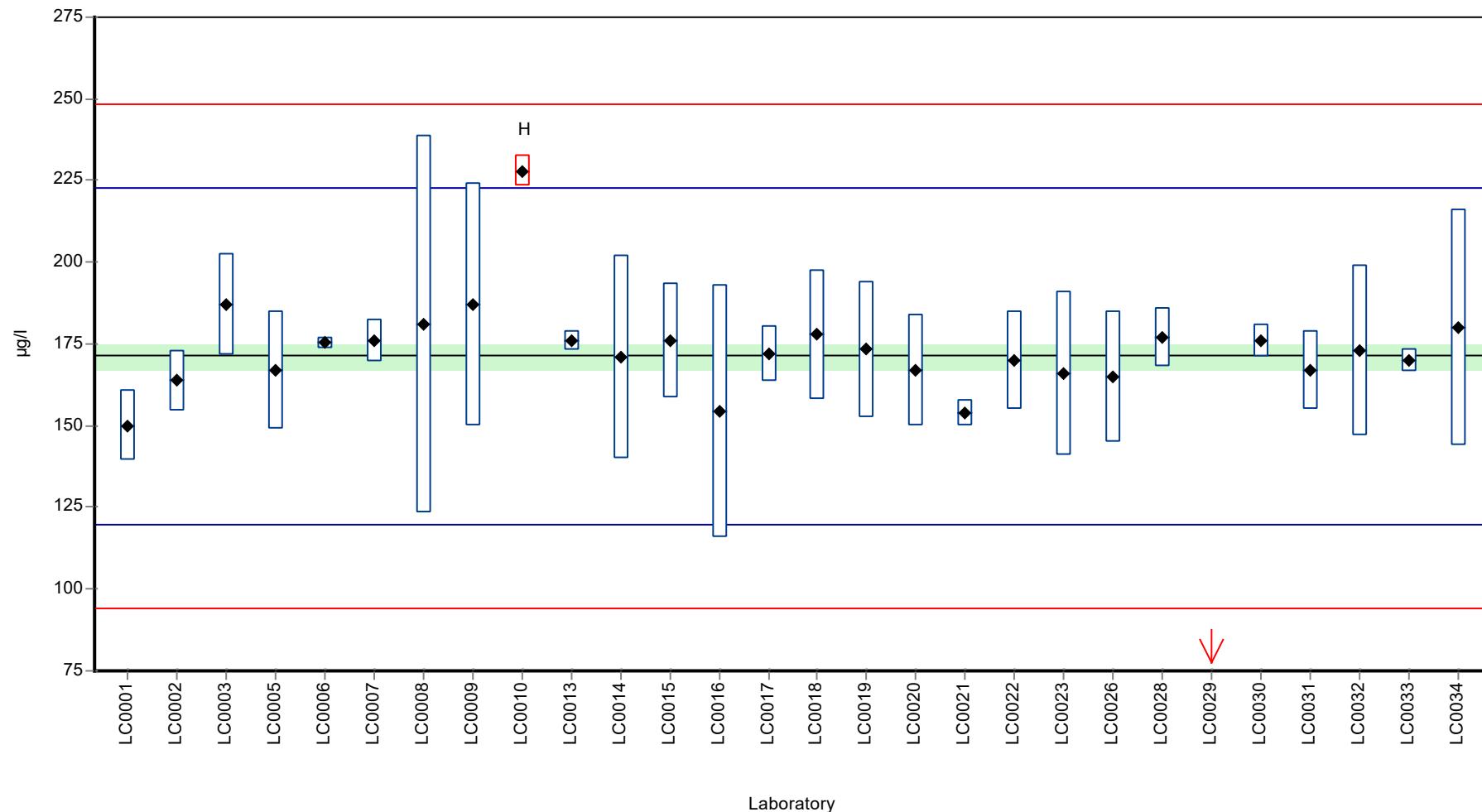
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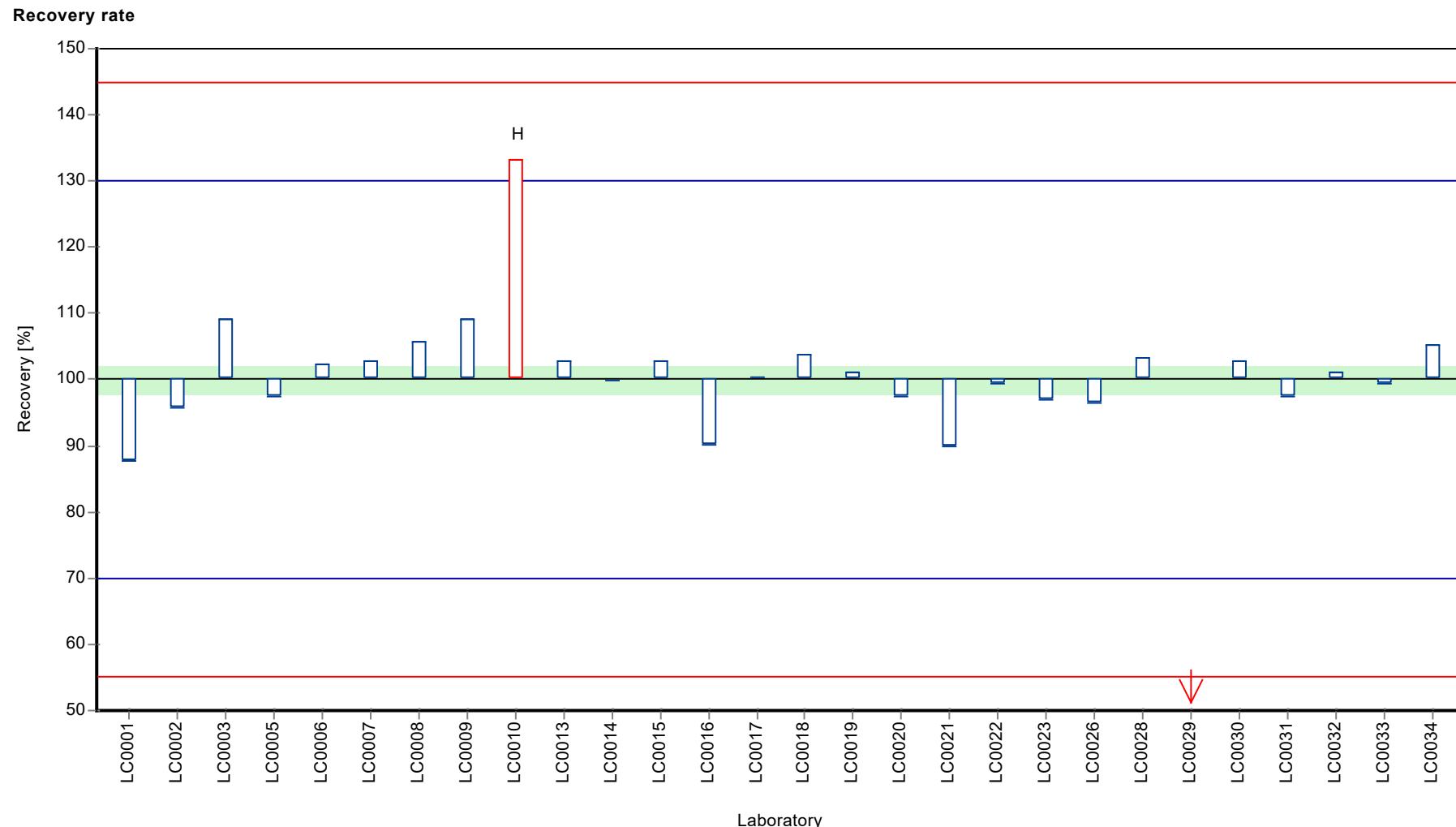
**Characteristics of parameter**

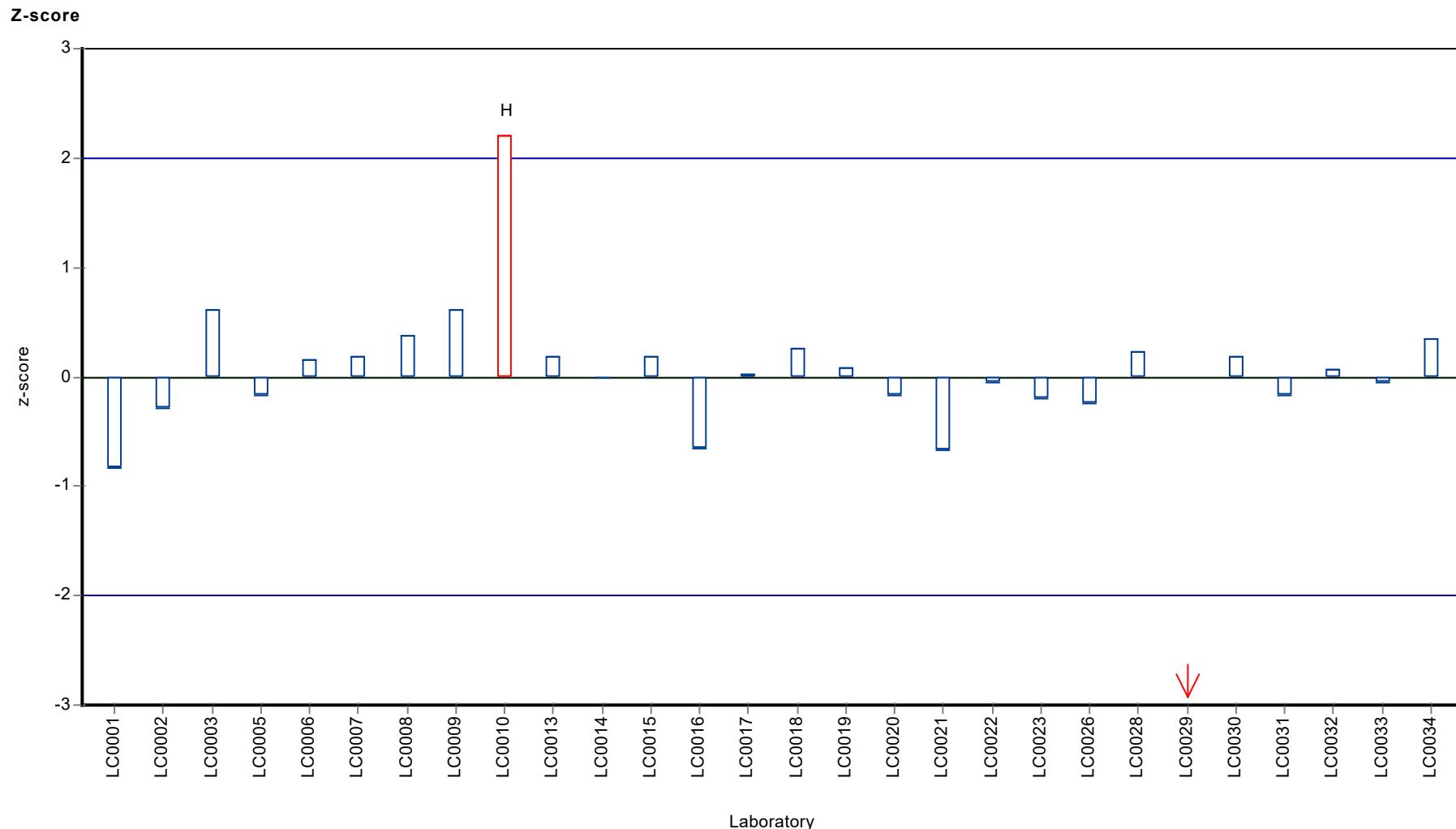
	all results	without outliers	Unit
Mean ± CI (99%)	167 ± 20.1	171 ± 5.35	µg/l
Minimum	0.18	150	µg/l
Maximum	228	187	µg/l
Standard deviation	35.5	9.1	µg/l
rel. standard deviation	21.3	5.31	%
n	28	26	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 A

#### Arsenic

Unit	$\mu\text{g/l}$
Assigned value $\pm U$ ( $k=2$ )	$1.35 \pm 0.037$
Criterion	0.175 (13 %)
Minimum - Maximum	1.17 - 1.57
Control test value $\pm U$ ( $k=2$ )	$1.4 \pm 0.067$

Labcode	Result	$\pm U$	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	1.321	0.05	98.2	-0.14	
LC0003	1.3	0.09	96.6	-0.26	
LC0004	-	-	-	-	
LC0005	1.33	0.075	98.9	-0.09	
LC0006	1.38	0.207	103	0.2	
LC0007	1.73	0.18	129	2.2	H
LC0008	1.39	0.2	103	0.26	
LC0009	1.27	0.3	94.4	-0.43	
LC0010	8.25	0.11	613	39.5	H
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	1.7	0.3	126	2.03	H
LC0014	1.35	0.24	100	0.03	
LC0015	1.3	0.156	96.6	-0.26	
LC0016	-	-	-	-	
LC0017	1.33	0.08	98.9	-0.09	
LC0018	3.09	0.7	230	9.98	H
LC0019	1.3301	0.23	98.9	-0.09	
LC0020	< 10 (LOQ)	-	-	-	
LC0021	1.57	0.06	117	1.29	
LC0022	1.37	0.46	102	0.14	
LC0023	1.17	0.18	87	-1	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	1.4	0.2	104	0.31	
LC0027	-	-	-	-	
LC0028	1.37	0.075	102	0.14	
LC0029	0.998	0.07	74.2	-1.98	H
LC0030	1.722	0.018	128	2.16	H
LC0031	1.31	0.09	97.4	-0.2	
LC0032	1.32	0.132	98.1	-0.14	
LC0033	1.04	0.0208	77.3	-1.74	H
LC0034	1.4	0.28	104	0.31	

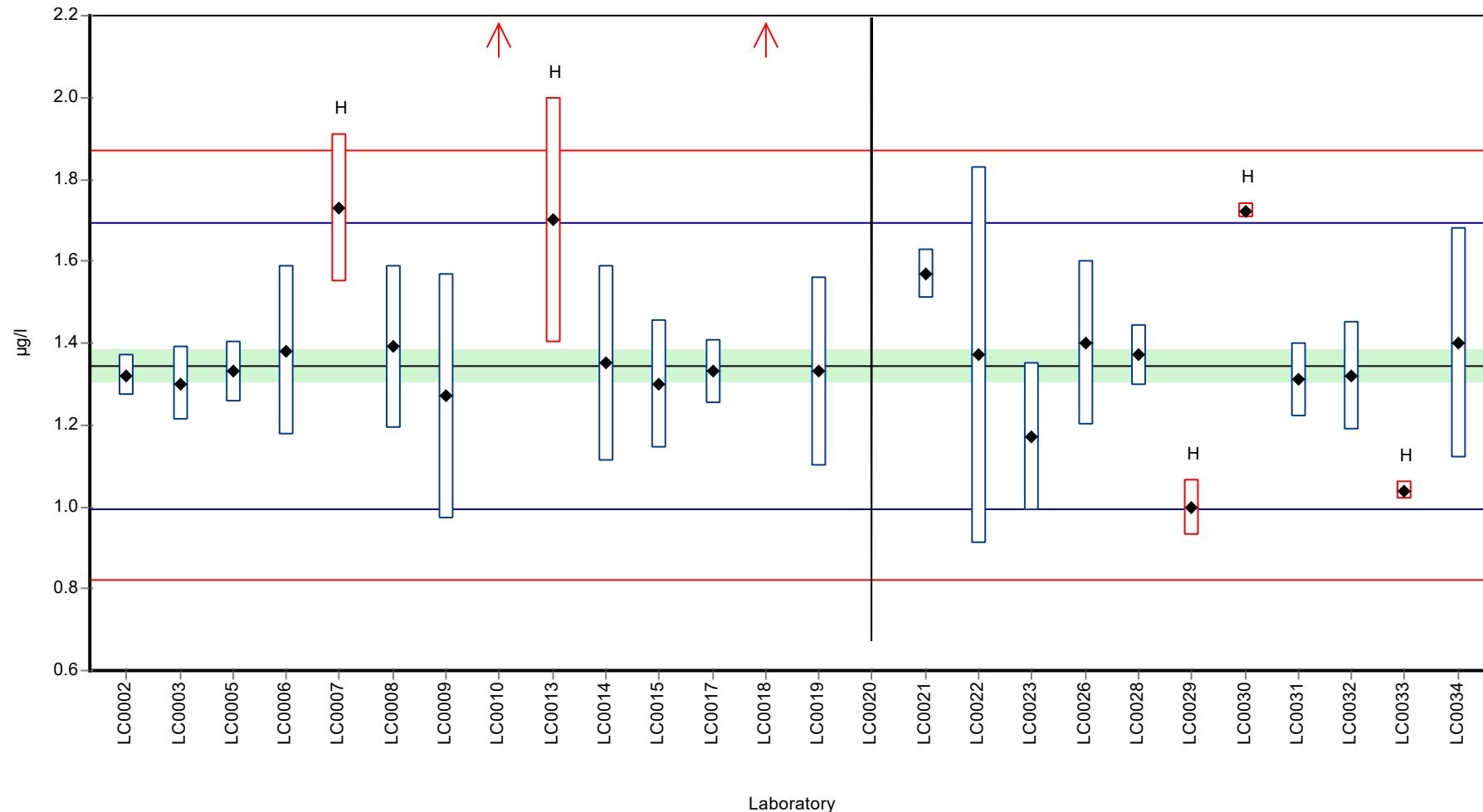
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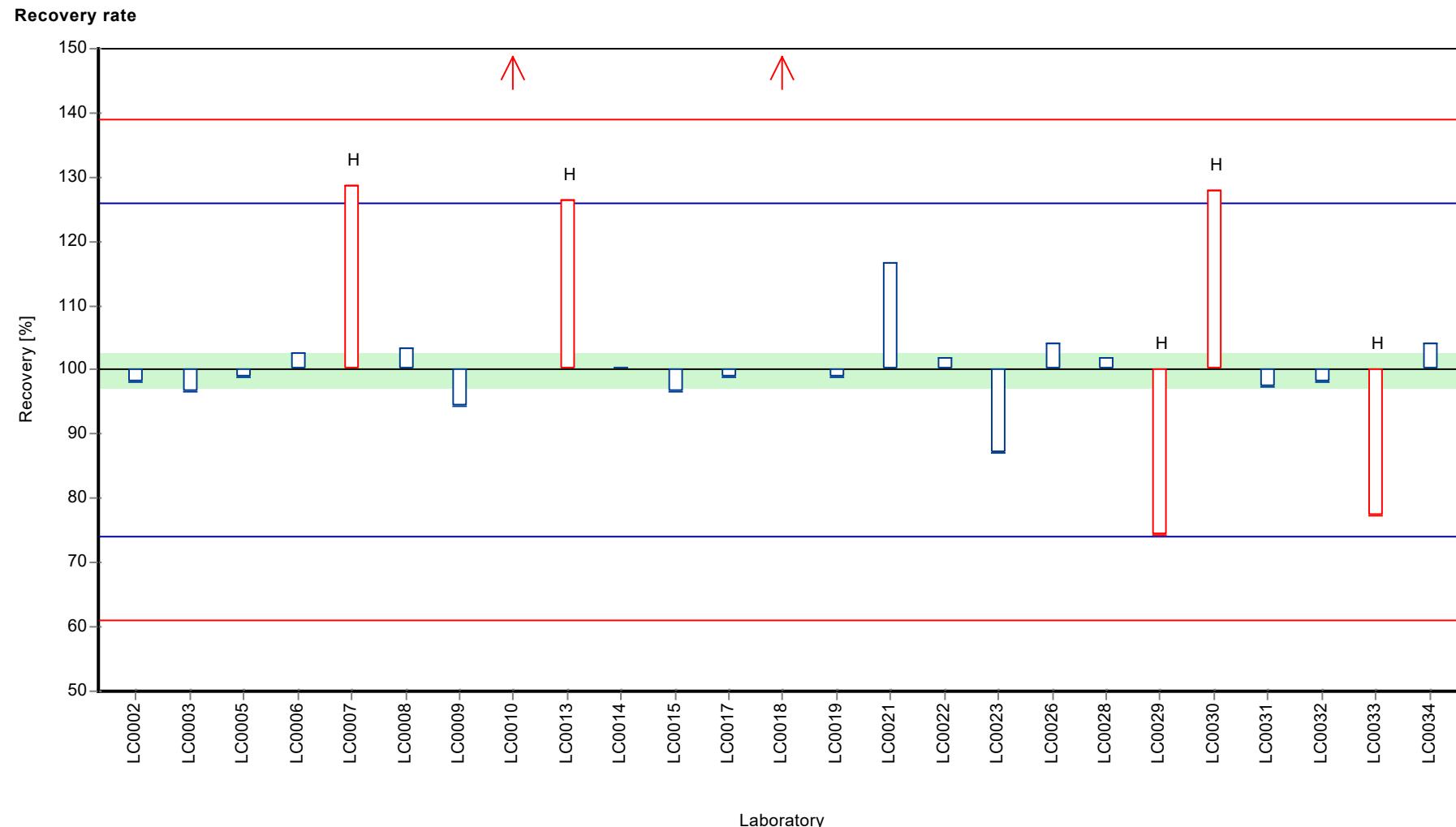
**Characteristics of parameter**

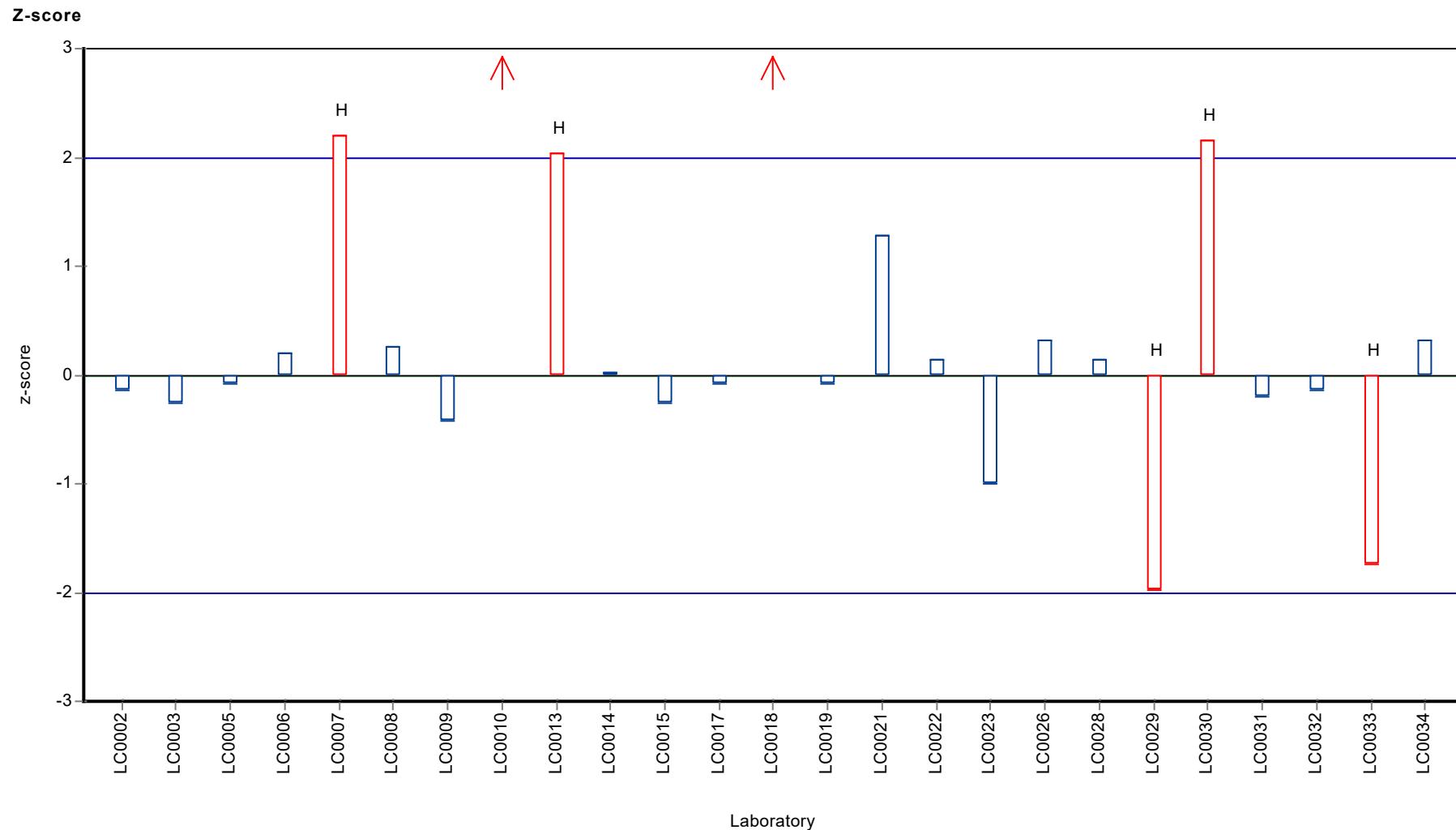
	all results	without outliers	Unit
Mean ± CI (99%)	1.71 ± 0.85	1.35 ± 0.0555	µg/l
Minimum	0.998	1.17	µg/l
Maximum	8.25	1.57	µg/l
Standard deviation	1.42	0.0784	µg/l
rel. standard deviation	82.8	5.83	%
n	25	18	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 B

#### Arsenic

Unit	µg/l
Assigned value ± U (k=2)	6.65 ± 0.205
Criterion	0.865 (13 %)
Minimum - Maximum	5.78 - 7.73
Control test value ± U (k=2)	6.56 ± 0.342

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	6.2	0.43	93.2	-0.52	
LC0002	6.463	0.243	97.2	-0.22	
LC0003	6.72	0.47	101	0.08	
LC0004	-	-	-	-	
LC0005	6.34	0.36	95.3	-0.36	
LC0006	6.96	1.04	105	0.36	
LC0007	7.34	0.17	110	0.8	
LC0008	6.73	0.96	101	0.09	
LC0009	6.03	1.2	90.7	-0.72	
LC0010	13	0.17	195	7.34	H
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	6.9	0.4	104	0.29	
LC0014	6.4	1.15	96.2	-0.29	
LC0015	6.6	0.792	99.2	-0.06	
LC0016	-	-	-	-	
LC0017	6.63	0.4	99.7	-0.02	
LC0018	7.42	1.5	112	0.89	
LC0019	6.36	1.09	95.6	-0.34	
LC0020	< 10 (LOQ)	-	-	-	
LC0021	7.62	0.07	115	1.12	
LC0022	6.81	1.36	102	0.18	
LC0023	5.78	0.87	86.9	-1.01	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	6.3	0.6	94.7	-0.41	
LC0027	-	-	-	-	
LC0028	6.62	0.102	99.5	-0.04	
LC0029	5.95	0.62	89.5	-0.81	
LC0030	7.727	0.016	116	1.24	
LC0031	6.26	0.44	94.1	-0.45	
LC0032	6.56	0.656	98.6	-0.1	
LC0033	4.1	0.082	61.6	-2.95	H
LC0034	6.9	1.38	104	0.29	

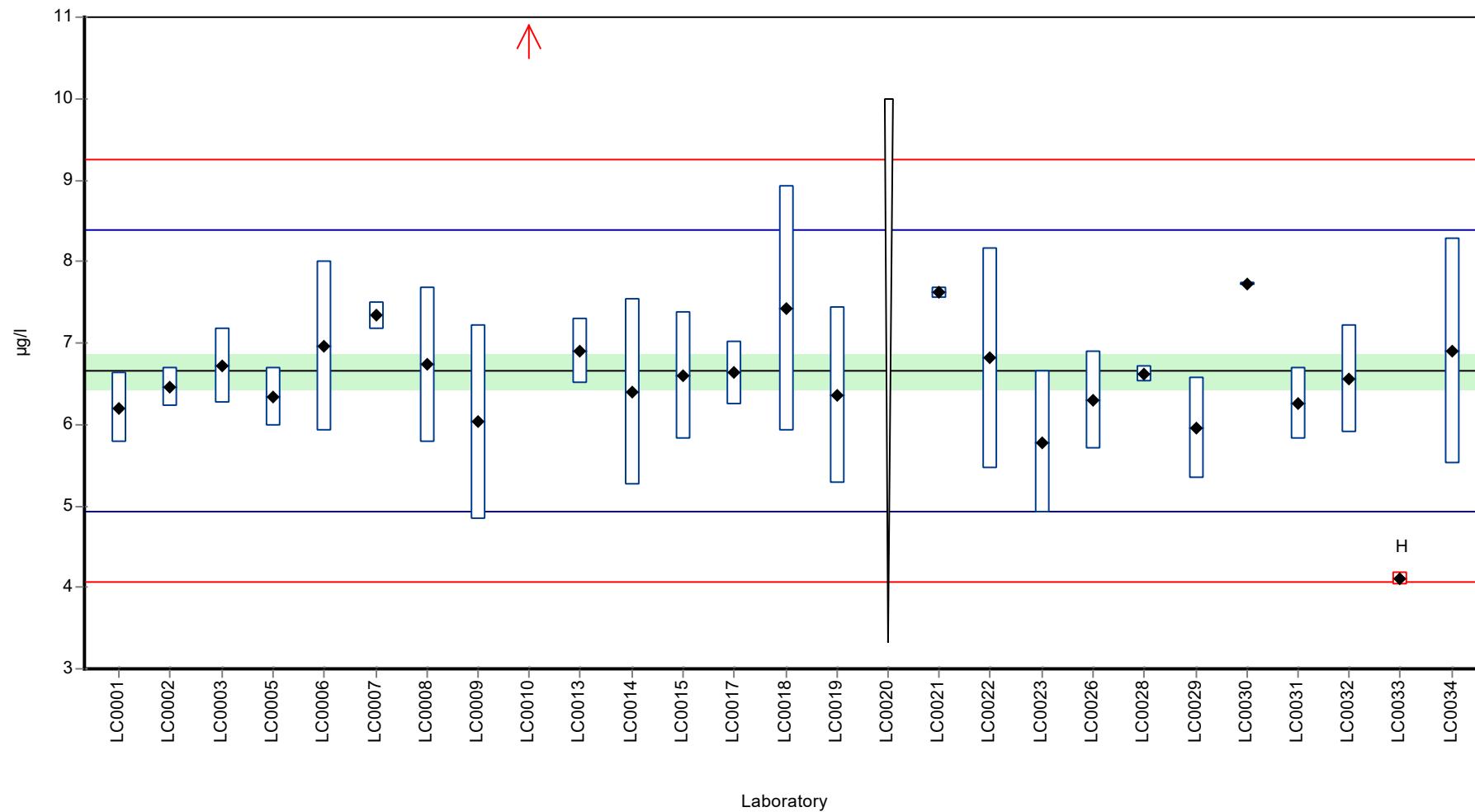
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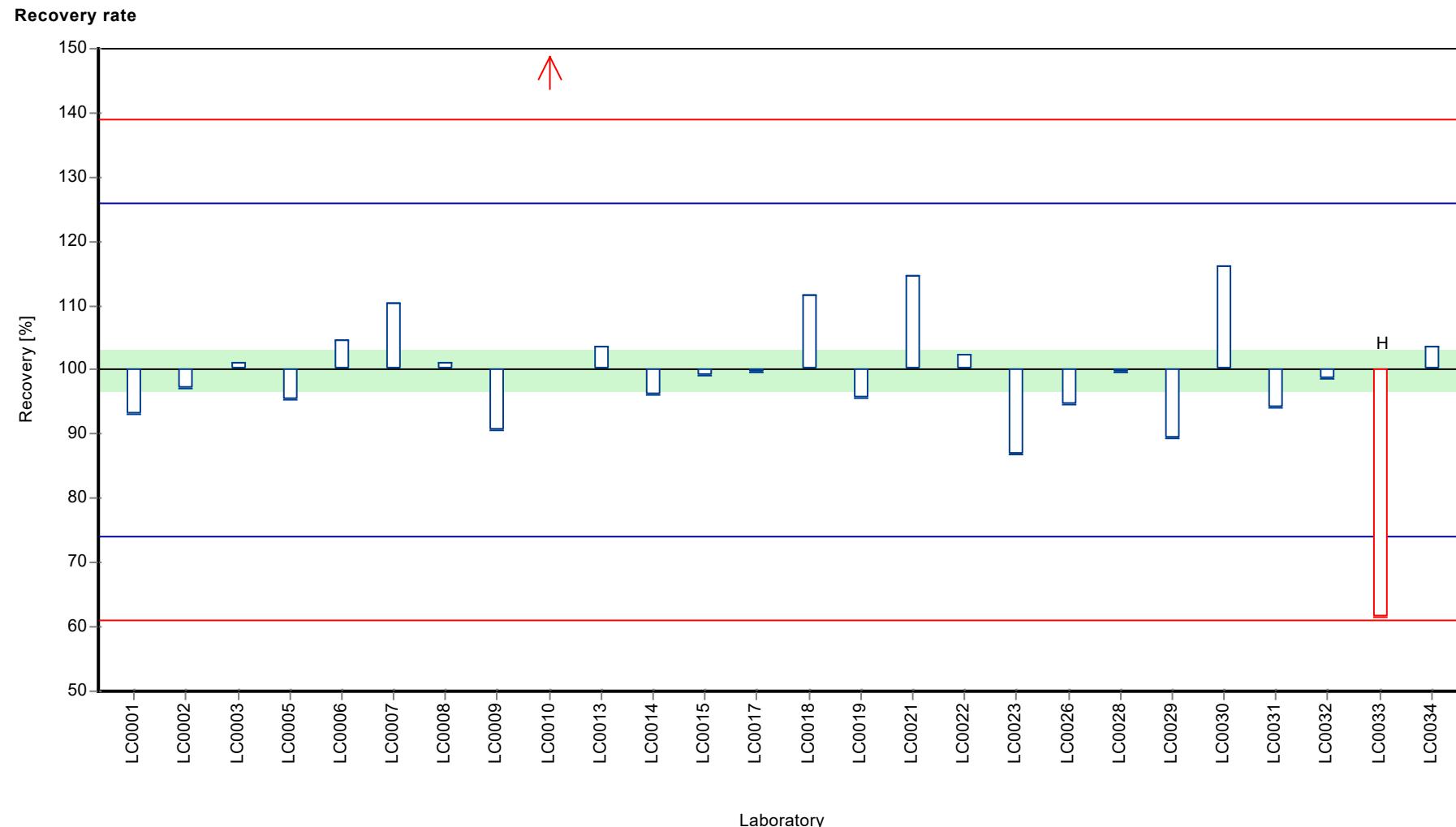
**Characteristics of parameter**

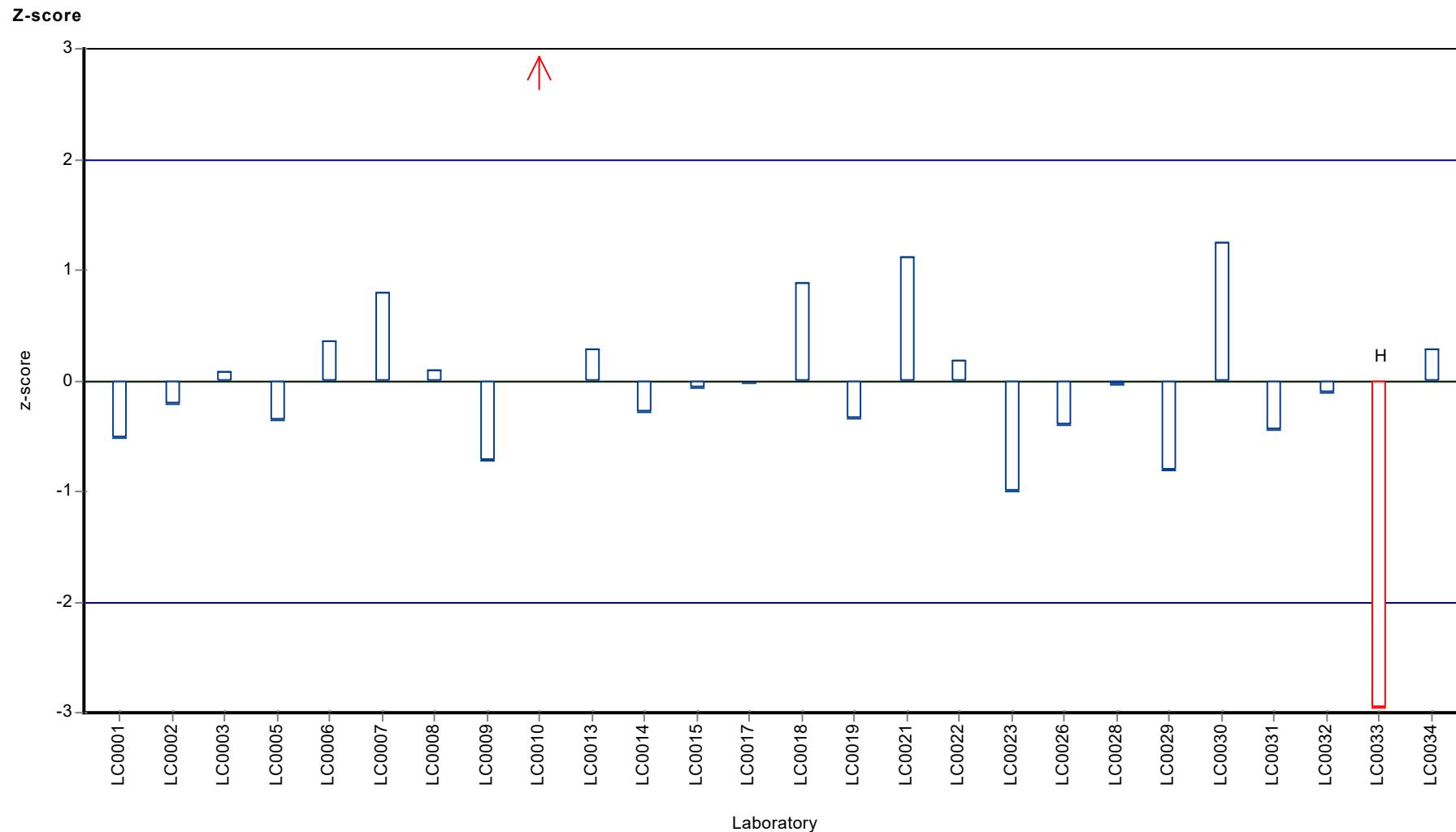
	all results	without outliers	Unit
Mean ± CI (99%)	6.8 ± 0.849	6.65 ± 0.308	µg/l
Minimum	4.1	5.78	µg/l
Maximum	13	7.73	µg/l
Standard deviation	1.44	0.503	µg/l
rel. standard deviation	21.2	7.57	%
n	26	24	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 A

#### Cadmium

Unit	µg/l
Assigned value ± U (k=2)	5.5 ± 0.0883
Criterion	0.55 (10 %)
Minimum - Maximum	5 - 5.86
Control test value ± U (k=2)	5.2 ± 0.265

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	5.297	0.101	96.3	-0.37	
LC0003	5.68	0.35	103	0.33	
LC0004	-	-	-	-	
LC0005	5.56	0.26	101	0.11	
LC0006	5.68	0.852	103	0.33	
LC0007	5.61	0.219	102	0.2	
LC0008	5.44	0.99	98.9	-0.11	
LC0009	5.1	1	92.8	-0.72	
LC0010	5	0.03	90.9	-0.91	
LC0011	-	-	-	-	
LC0012	4	0.49	72.8	-2.72	H
LC0013	5.6	0.1	102	0.18	
LC0014	5.49	0.99	99.9	-0.01	
LC0015	5.3	0.424	96.4	-0.36	
LC0016	-	-	-	-	
LC0017	5.24	0.21	95.3	-0.47	
LC0018	5.57	1	101	0.13	
LC0019	5.516	0.95	100	0.03	
LC0020	5.4	0.27	98.2	-0.18	
LC0021	5.44	0.03	98.9	-0.11	
LC0022	5.57	0.94	101	0.13	
LC0023	4.68	0.7	85.1	-1.49	H
LC0024	-	-	-	-	
LC0025	4.3295	0.65	78.7	-2.13	H
LC0026	5.6	0.8	102	0.18	
LC0027	5.091	1.049	92.6	-0.74	
LC0028	5.65	0.05	103	0.28	
LC0029	5.86	0.64	107	0.66	
LC0030	5.572	0.011	101	0.13	
LC0031	5.55	0.39	101	0.09	
LC0032	5.82	0.582	106	0.58	
LC0033	5.15	0.103	93.7	-0.63	
LC0034	5.7	1.14	104	0.37	

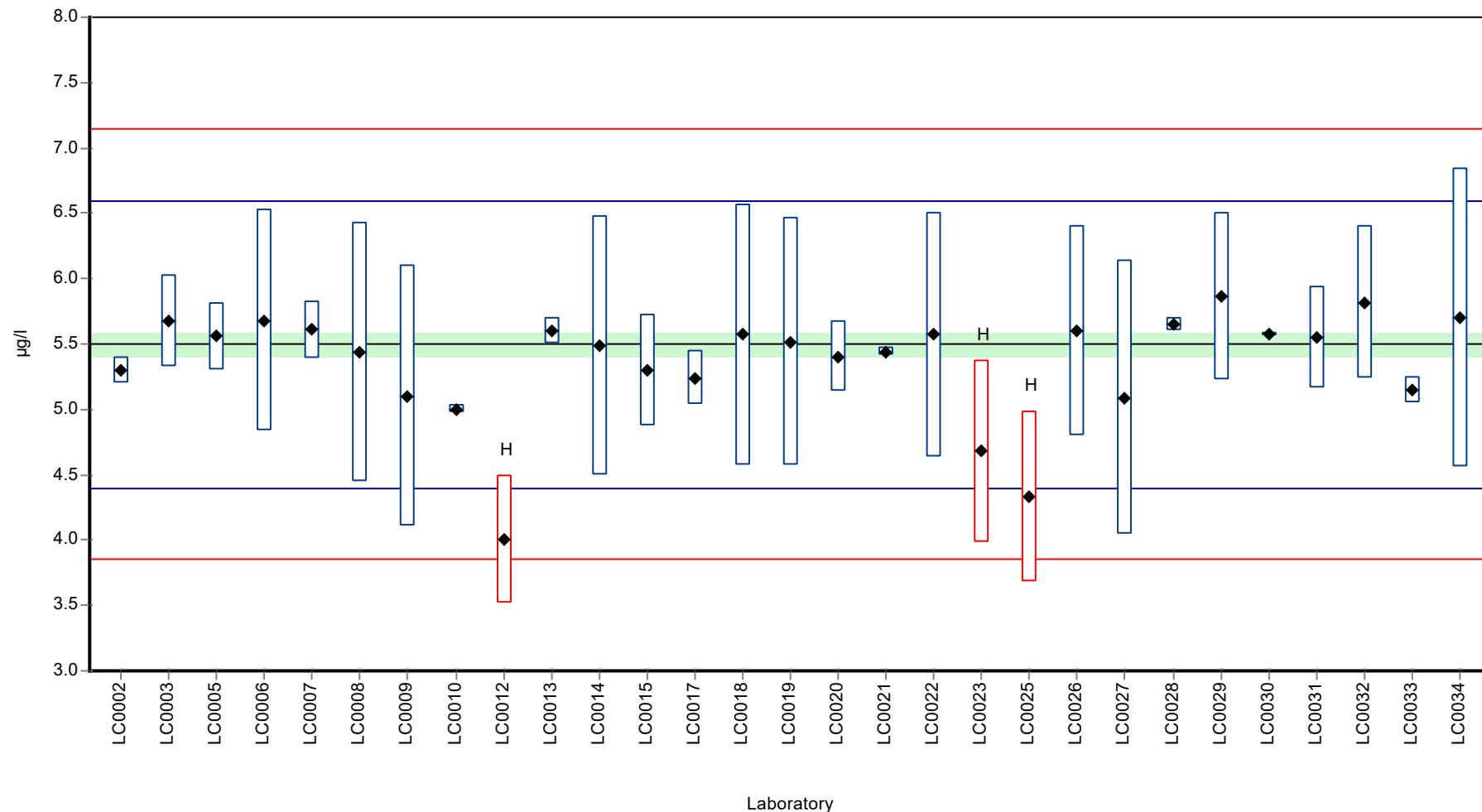
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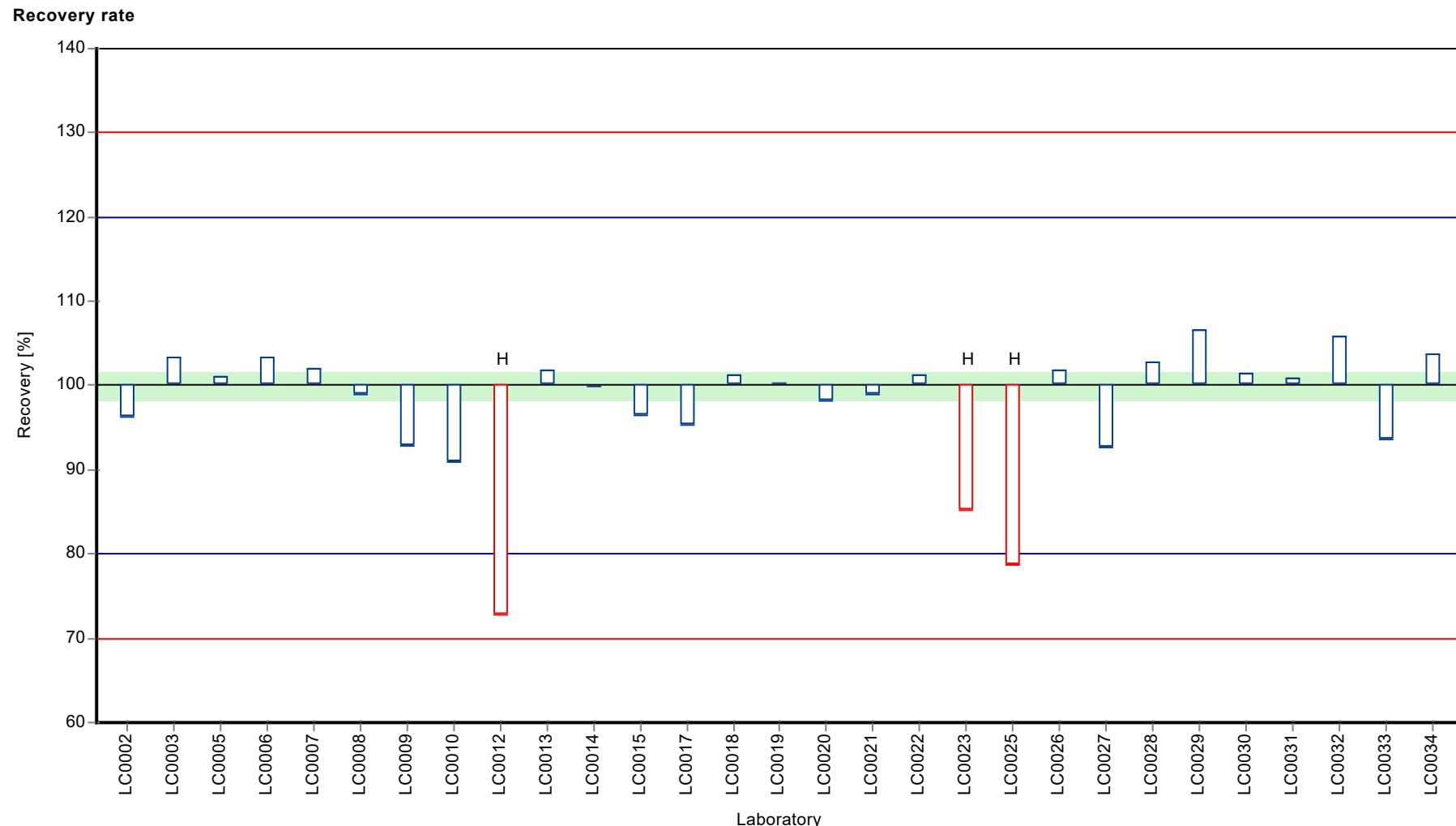
**Characteristics of parameter**

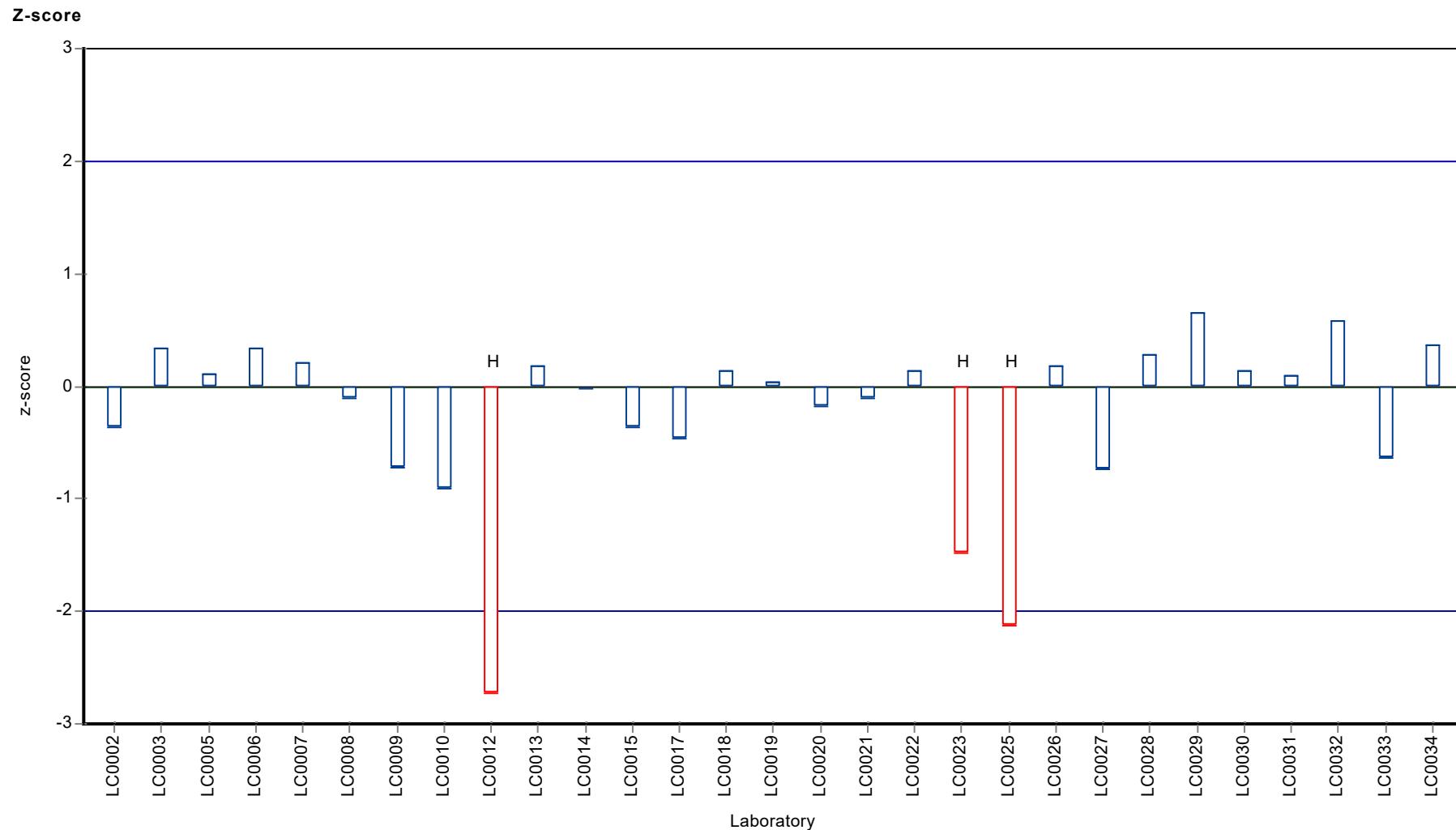
	all results	without outliers	Unit
Mean ± CI (99%)	5.36 ± 0.236	5.48 ± 0.133	µg/l
Minimum	4	5	µg/l
Maximum	5.86	5.86	µg/l
Standard deviation	0.423	0.225	µg/l
rel. standard deviation	7.9	4.11	%
n	29	26	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 B

#### Cadmium

Unit	µg/l
Assigned value ± U (k=2)	0.588 ± 0.0125
Criterion	0.0588 (10 %)
Minimum - Maximum	0.517 - 0.641
Control test value ± U (k=2)	0.558 ± 0.0428

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.6	0.05	102	0.21	
LC0002	0.565	0.011	96.1	-0.39	
LC0003	0.58	0.04	98.7	-0.13	
LC0004	-	-	-	-	
LC0005	0.576	0.03	98	-0.2	
LC0006	0.63	0.093	107	0.72	
LC0007	0.639	0.022	109	0.87	
LC0008	0.55	0.1	93.6	-0.64	
LC0009	0.57	0.1	97	-0.3	
LC0010	< 2.03 (LOQ)	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.5	0.01	85.1	-1.49	H
LC0014	0.599	0.108	102	0.19	
LC0015	0.58	0.0464	98.7	-0.13	
LC0016	-	-	-	-	
LC0017	0.569	0.023	96.8	-0.32	
LC0018	0.59	0.1	100	0.04	
LC0019	0.589	0.101	100	0.02	
LC0020	0.6	0.03	102	0.21	
LC0021	0.59	0.01	100	0.04	
LC0022	0.615	0.181	105	0.46	
LC0023	0.518	0.078	88.1	-1.19	
LC0024	-	-	-	-	
LC0025	0.3969	0.06	67.5	-3.25	H
LC0026	0.6	0.1	102	0.21	
LC0027	0.5169	0.106	87.9	-1.21	
LC0028	0.641	0.031	109	0.91	
LC0029	0.572	0.09	97.3	-0.27	
LC0030	0.604	0.013	103	0.28	
LC0031	0.578	0.04	98.3	-0.17	
LC0032	0.622	0.0622	106	0.58	
LC0033	1	0.02	170	7.01	H
LC0034	0.6	0.12	102	0.21	

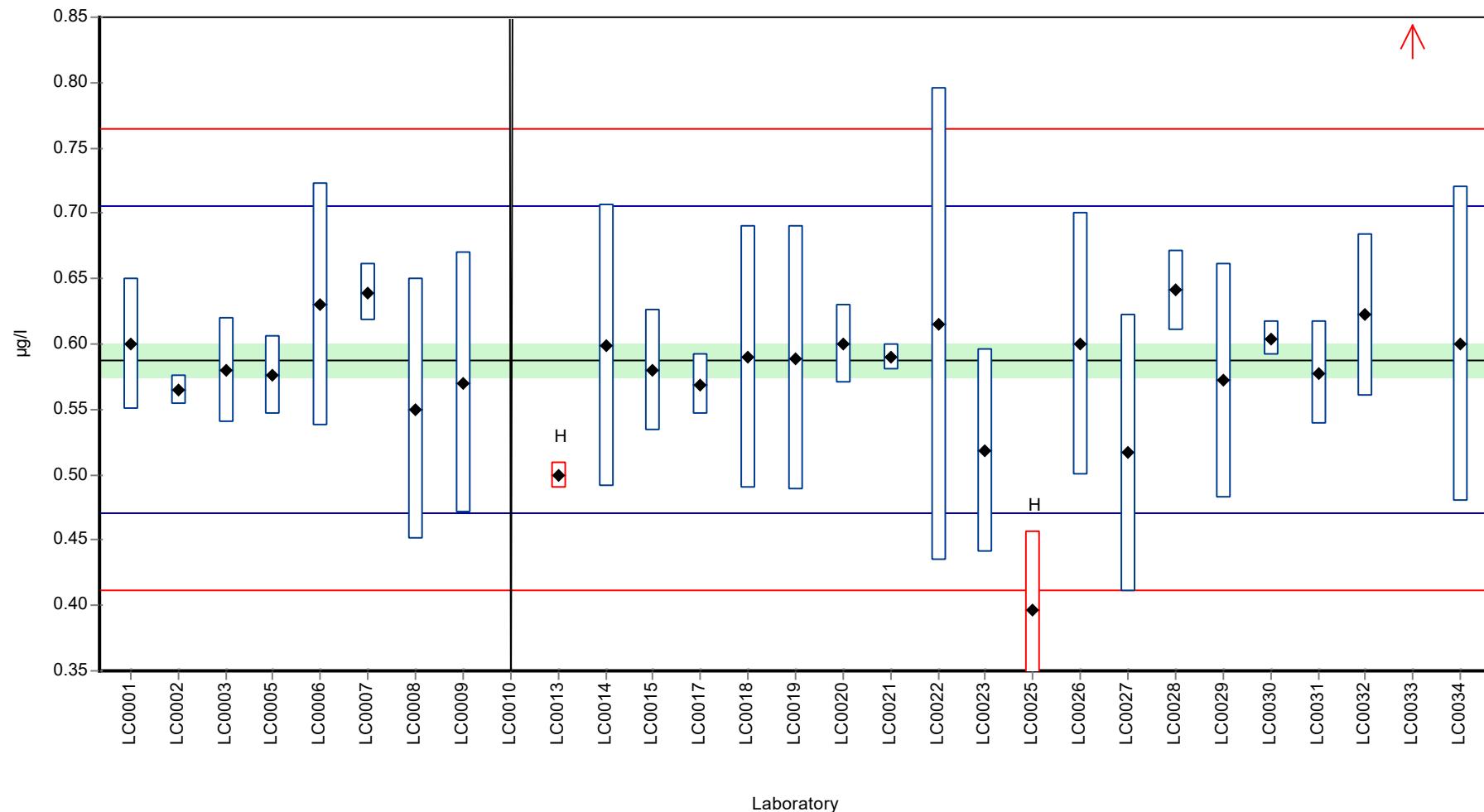
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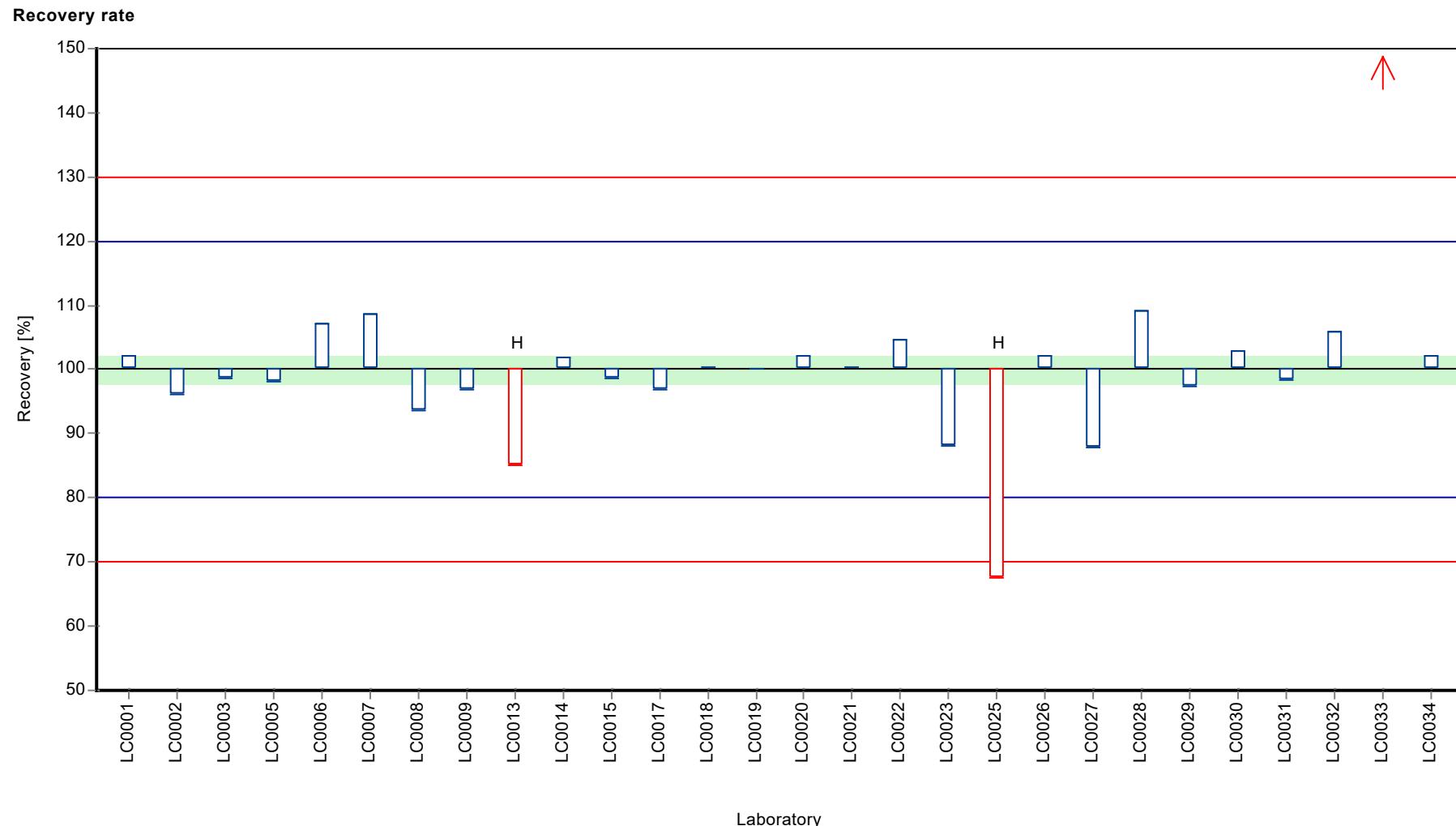
**Characteristics of parameter**

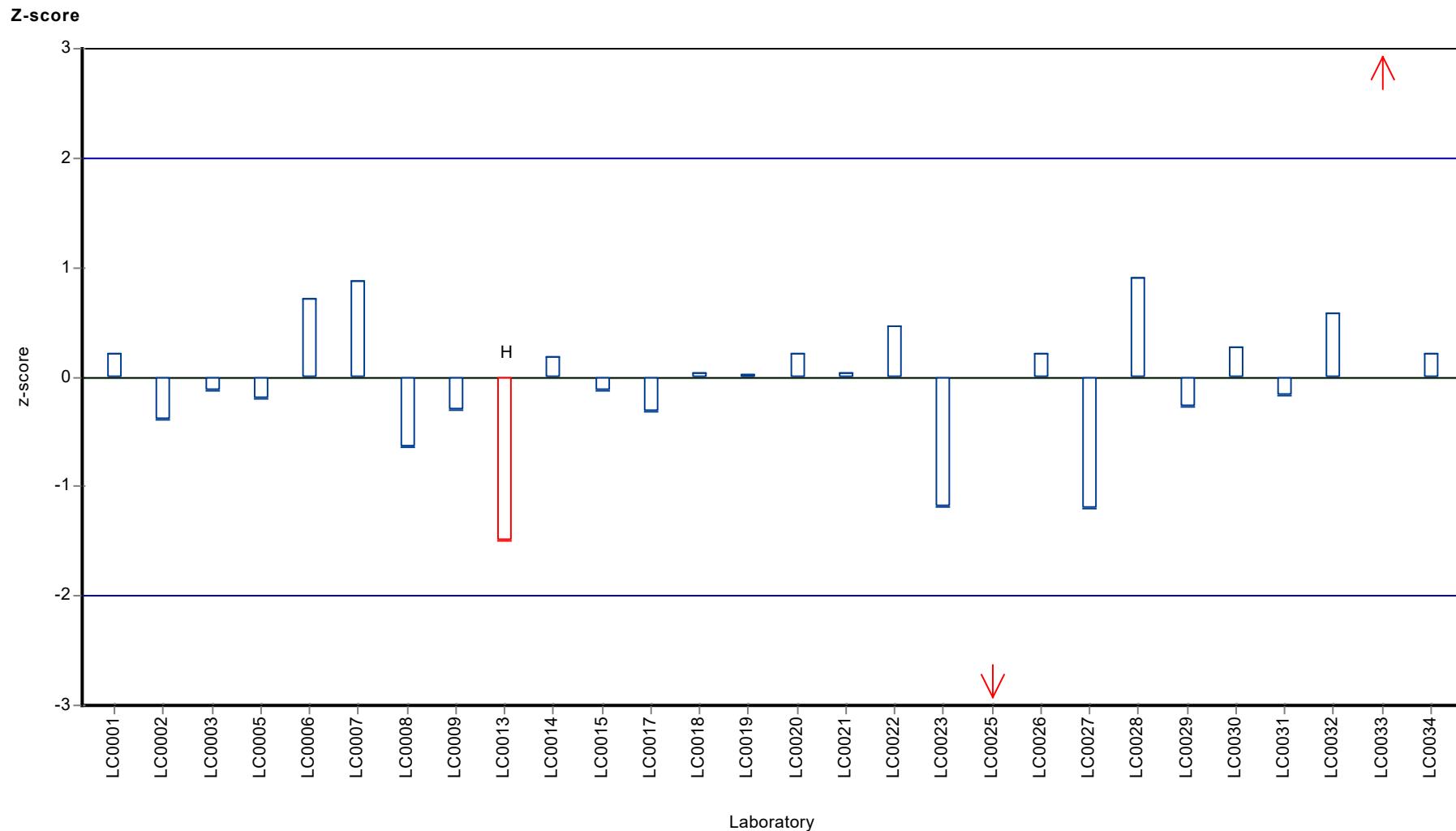
	all results	without outliers	Unit
Mean ± CI (99%)	0.593 ± 0.0531	0.588 ± 0.0187	µg/l
Minimum	0.397	0.517	µg/l
Maximum	1	0.641	µg/l
Standard deviation	0.0936	0.0311	µg/l
rel. standard deviation	15.8	5.3	%
n	28	25	-

### Graphical presentation of results

#### Results







## Parameter oriented report

### M150 A

#### Chromium

Unit	µg/l
Assigned value ± U (k=2)	0.913 ± 0.0459
Criterion	0.0776 (8.5 %)
Minimum - Maximum	0.847 - 1.07
Control test value ± U (k=2)	0.932 ± 0.0493

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.847	0.017	92.8	-0.85	
LC0003	< 1 (LOQ)	-	-	-	
LC0004	-	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 1 (LOQ)	-	-	-	
LC0007	< 1 (LOQ)	-	-	-	
LC0008	0.94	0.11	103	0.35	
LC0009	< 1 (LOQ)	-	-	-	
LC0010	< 2.32 (LOQ)	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	< 5 (LOQ)	-	-	-	
LC0014	0.922	0.166	101	0.12	
LC0015	0.9	0.108	98.6	-0.16	
LC0016	-	-	-	-	
LC0017	0.863	0.078	94.6	-0.64	
LC0018	1.5796	0.2	173	8.6	H
LC0019	0.885	0.084	97	-0.36	
LC0020	< 5 (LOQ)	-	-	-	
LC0021	1.03	0.01	113	1.51	
LC0022	-	-	-	-	
LC0023	< 1 (LOQ)	-	-	-	
LC0024	-	-	-	-	
LC0025	0.4244	0.06	46.5	-6.29	H
LC0026	0.6	0.2	65.7	-4.03	H
LC0027	1.0749	0.303	118	2.09	
LC0028	0.85	0.013	93.1	-0.81	
LC0029	-	-	-	-	
LC0030	3.934	0.012	431	39	H
LC0031	0.847	0.059	92.8	-0.85	
LC0032	0.88	0.088	96.4	-0.42	
LC0033	0.6	0.012	65.7	-4.03	H
LC0034	< 1 (LOQ)	-	-	-	

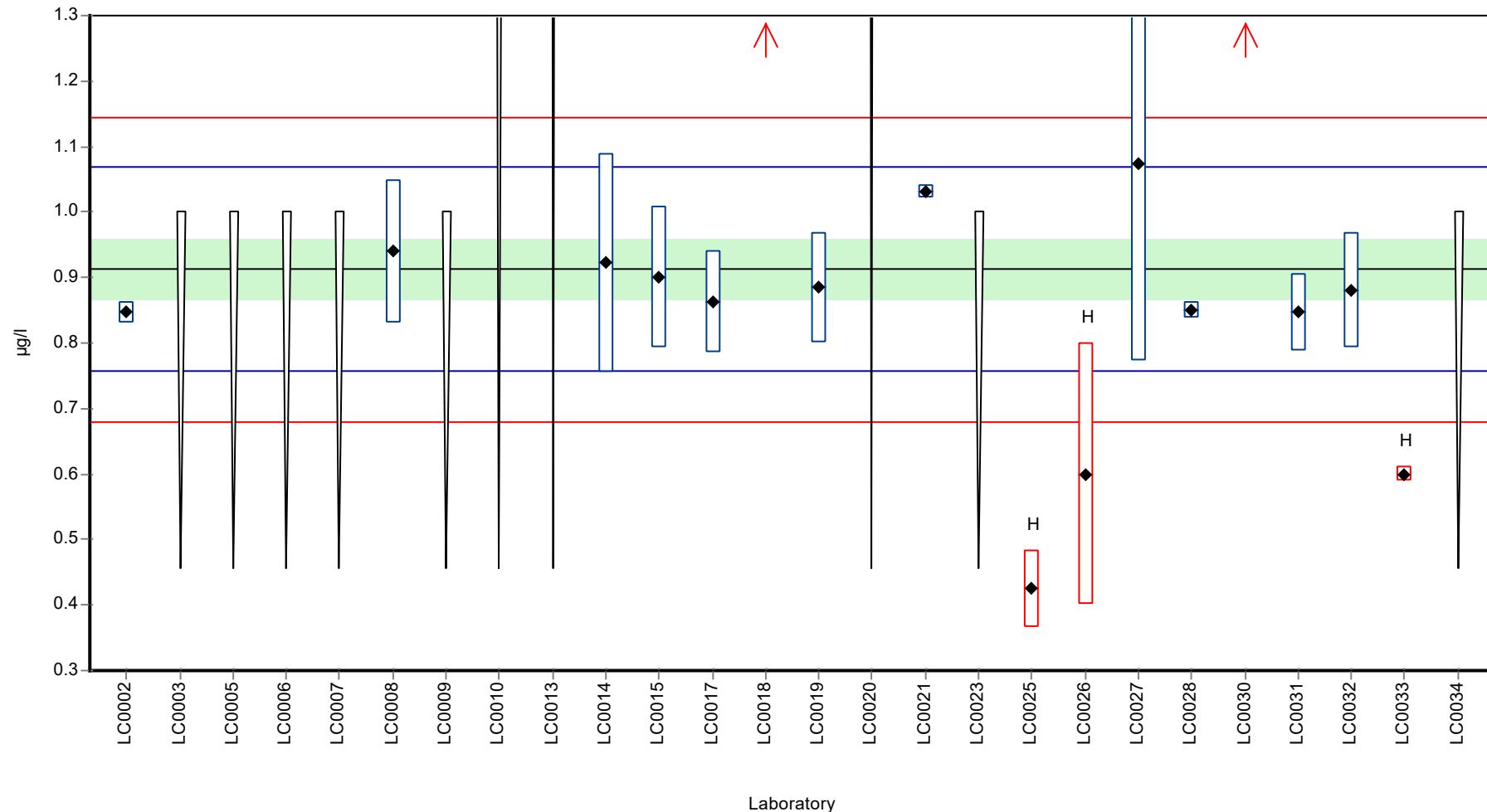
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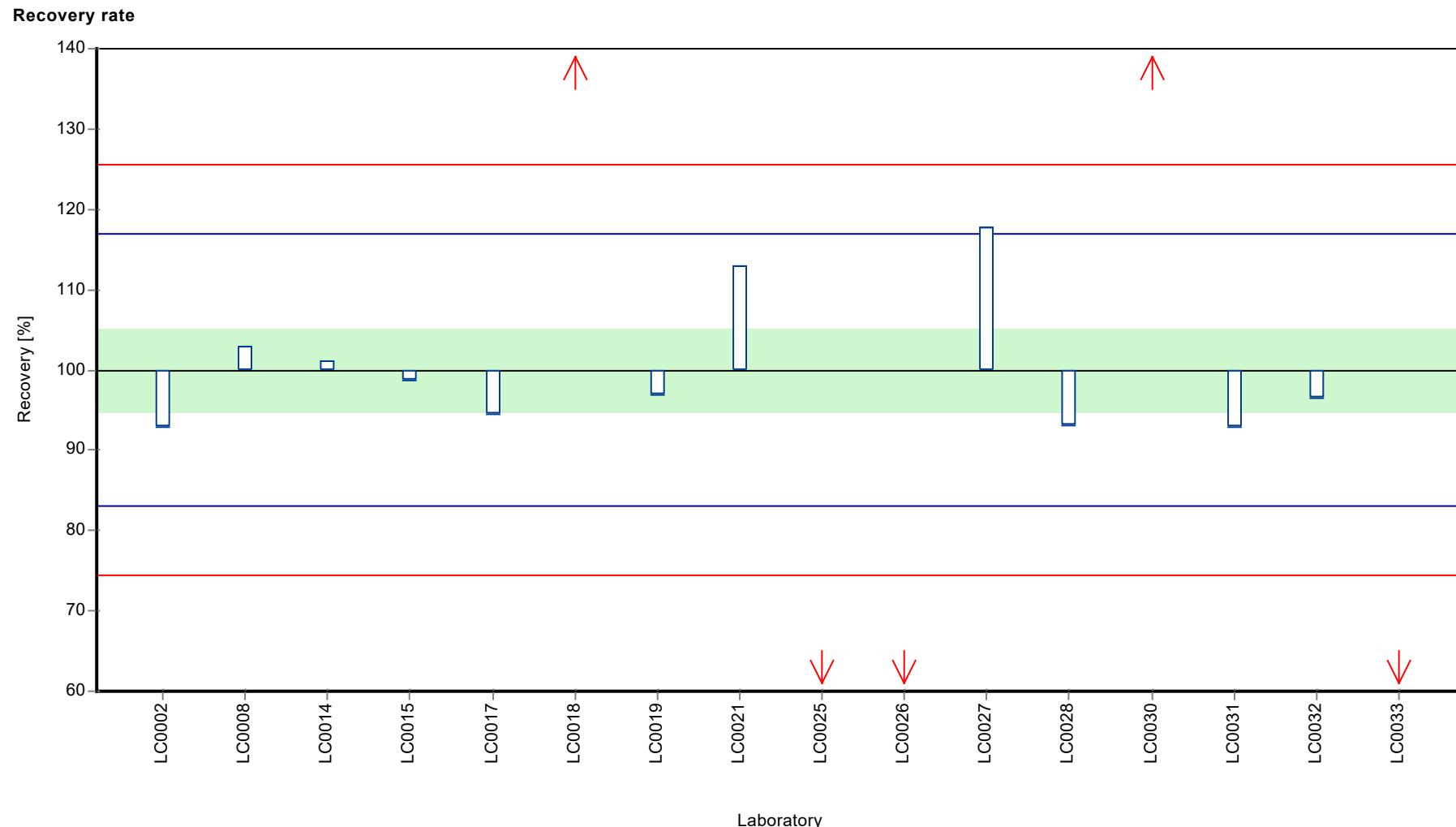
**Characteristics of parameter**

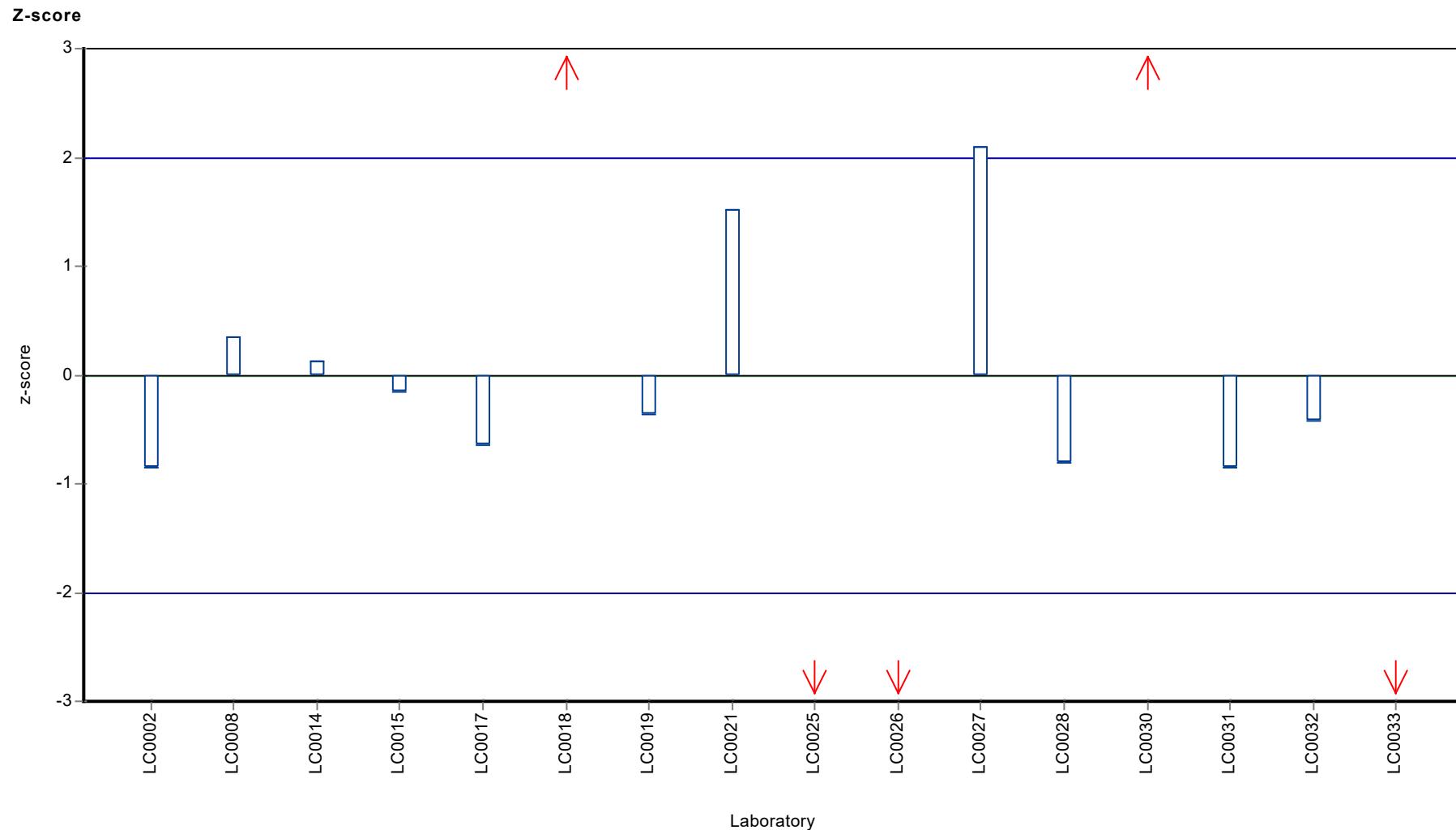
	all results	without outliers	Unit
Mean ± CI (99%)	1.07 ± 0.602	0.913 ± 0.0688	µg/l
Minimum	0.424	0.847	µg/l
Maximum	3.93	1.07	µg/l
Standard deviation	0.802	0.0761	µg/l
rel. standard deviation	74.7	8.34	%
n	16	11	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 B

#### Chromium

Unit	µg/l
Assigned value ± U (k=2)	0.718 ± 0.0472
Criterion	0.061 (8.5 %)
Minimum - Maximum	0.6 - 0.9
Control test value ± U (k=2)	0.717 ± 0.0332

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 1 (LOQ)	-	-	-	
LC0002	0.674	0.014	93.9	-0.72	
LC0003	< 1 (LOQ)	-	-	-	
LC0004	-	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 1 (LOQ)	-	-	-	
LC0007	< 1 (LOQ)	-	-	-	
LC0008	0.7	0.08	97.5	-0.3	
LC0009	< 1 (LOQ)	-	-	-	
LC0010	< 2.32 (LOQ)	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	1.1	0.5	153	6.26	H
LC0014	0.707	0.127	98.5	-0.18	
LC0015	0.6	0.072	83.6	-1.94	
LC0016	-	-	-	-	
LC0017	0.65	0.059	90.5	-1.12	
LC0018	0.8488	0.1	118	2.14	
LC0019	0.723	0.069	101	0.08	
LC0020	< 5 (LOQ)	-	-	-	
LC0021	0.8	0.01	111	1.34	
LC0022	-	-	-	-	
LC0023	< 1 (LOQ)	-	-	-	
LC0024	-	-	-	-	
LC0025	0.2232	0.03	31.1	-8.11	H
LC0026	< 0.5 (LOQ)	-	-	-	
LC0027	0.7248	0.205	101	0.11	
LC0028	0.679	0.047	94.6	-0.64	
LC0029	-	-	-	-	
LC0030	2.948	0.068	411	36.5	H
LC0031	0.634	0.05	88.3	-1.38	
LC0032	0.695	0.0695	96.8	-0.38	
LC0033	0.9	0.018	125	2.98	
LC0034	< 1 (LOQ)	-	-	-	

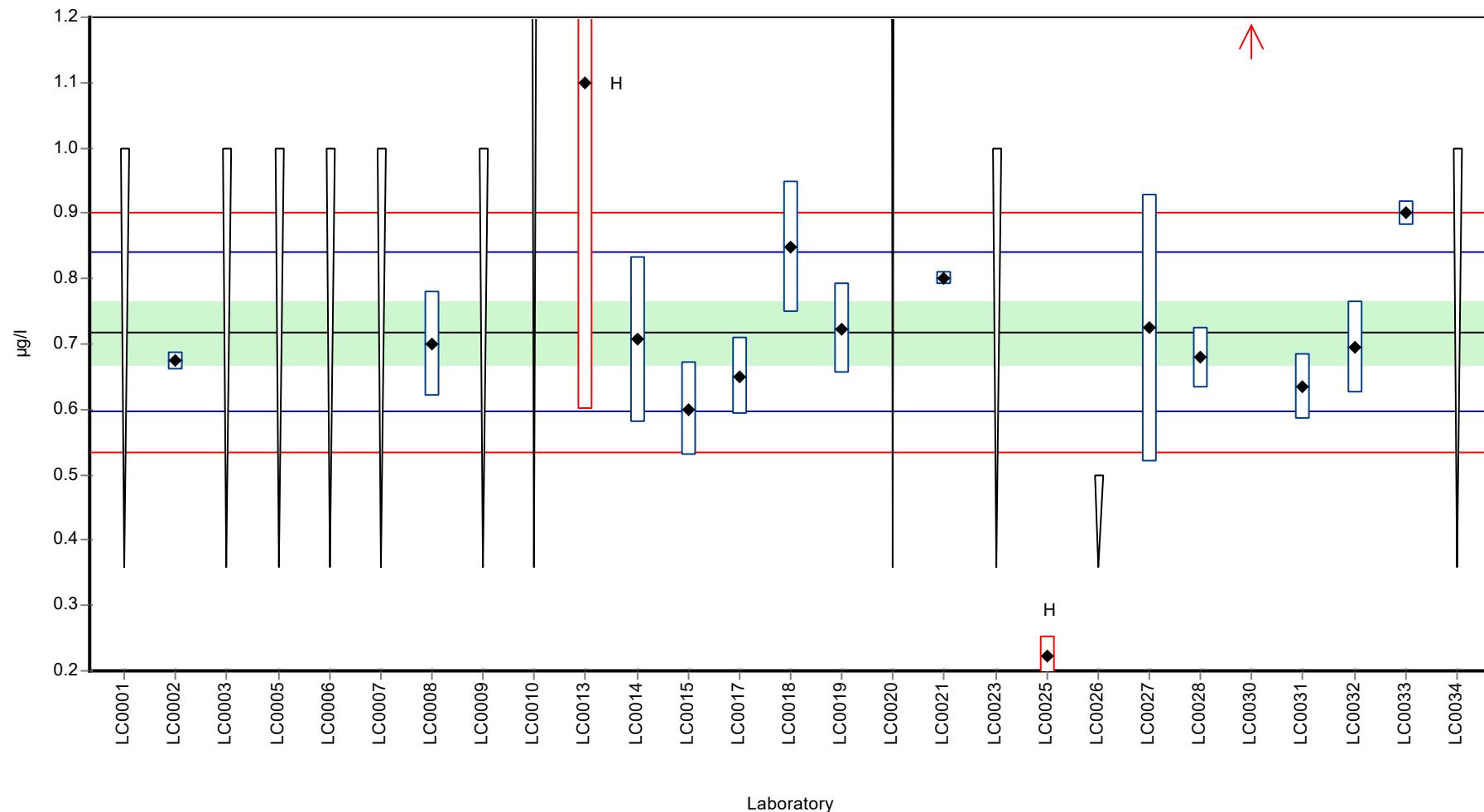
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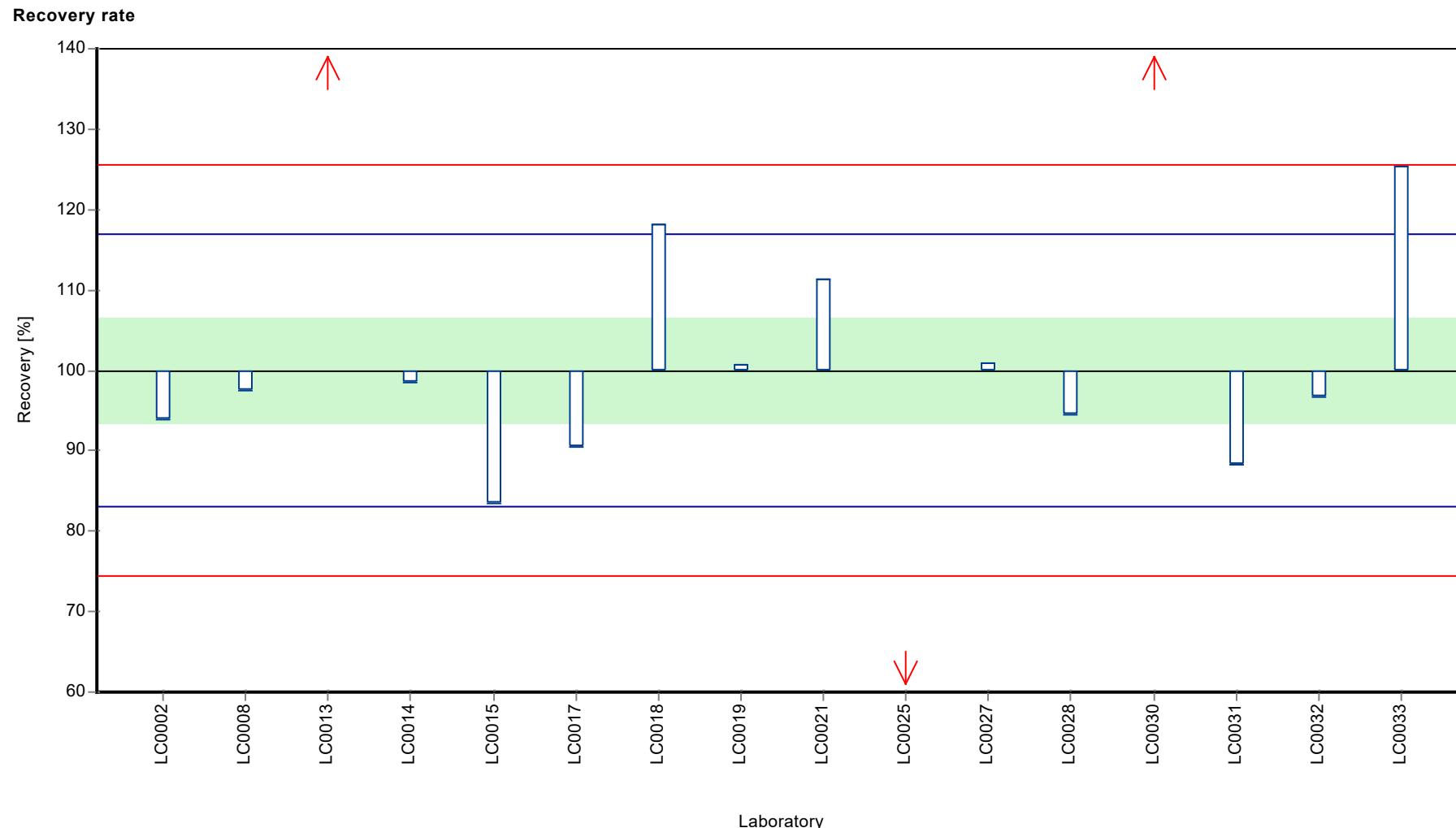
**Characteristics of parameter**

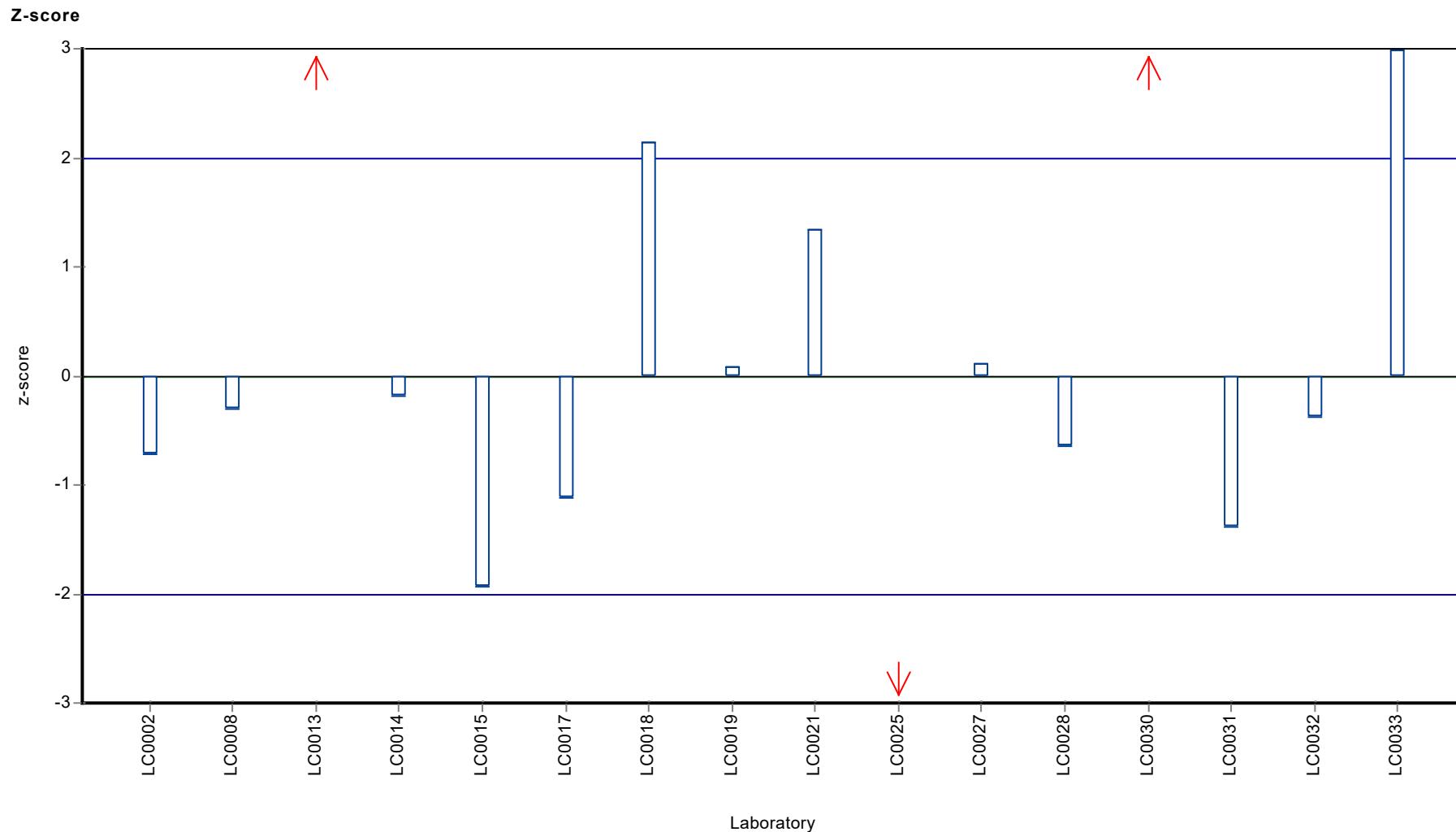
	all results	without outliers	Unit
Mean ± CI (99%)	0.85 ± 0.44	0.718 ± 0.0709	µg/l
Minimum	0.223	0.6	µg/l
Maximum	2.95	0.9	µg/l
Standard deviation	0.587	0.0852	µg/l
rel. standard deviation	69	11.9	%
n	16	13	-

### Graphical presentation of results

#### Results







## Parameter oriented report

### M150 A

#### Copper

Unit	µg/l
Assigned value ± U (k=2)	7.42 ± 0.284
Criterion	0.668 (9 %)
Minimum - Maximum	5.9 - 8.46
Control test value ± U (k=2)	8.23 ± 0.773

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	12.814	0.21	173	8.07	H
LC0003	6.79	0.5	91.5	-0.95	
LC0004	-	-	-	-	
LC0005	7.48	0.41	101	0.08	
LC0006	7.25	0.73	97.7	-0.26	
LC0007	8.21	0.15	111	1.18	
LC0008	8.14	0.88	110	1.07	
LC0009	7.53	1.5	101	0.16	
LC0010	9.75	0.12	131	3.48	H
LC0011	-	-	-	-	
LC0012	5.9	2.4	79.5	-2.28	
LC0013	7.7	1.3	104	0.41	
LC0014	8.27	1.49	111	1.27	
LC0015	7.7	0.616	104	0.41	
LC0016	-	-	-	-	
LC0017	7.4	0.44	99.7	-0.04	
LC0018	7.56	1	102	0.2	
LC0019	7.415	0.083	99.9	-0.01	
LC0020	8	1.1	108	0.86	
LC0021	7.88	0.04	106	0.68	
LC0022	8.46	1.83	114	1.55	
LC0023	6.95	1.04	93.6	-0.71	
LC0024	-	-	-	-	
LC0025	7.745	1.16	104	0.48	
LC0026	6	1	80.8	-2.13	
LC0027	-	-	-	-	
LC0028	8.03	0.071	108	0.91	
LC0029	6.21	0.77	83.7	-1.82	
LC0030	7.93	0.2	107	0.76	
LC0031	7.16	0.5	96.5	-0.39	
LC0032	7.5	1.13	101	0.12	
LC0033	6	0.12	80.8	-2.13	
LC0034	7.8	1.56	105	0.56	

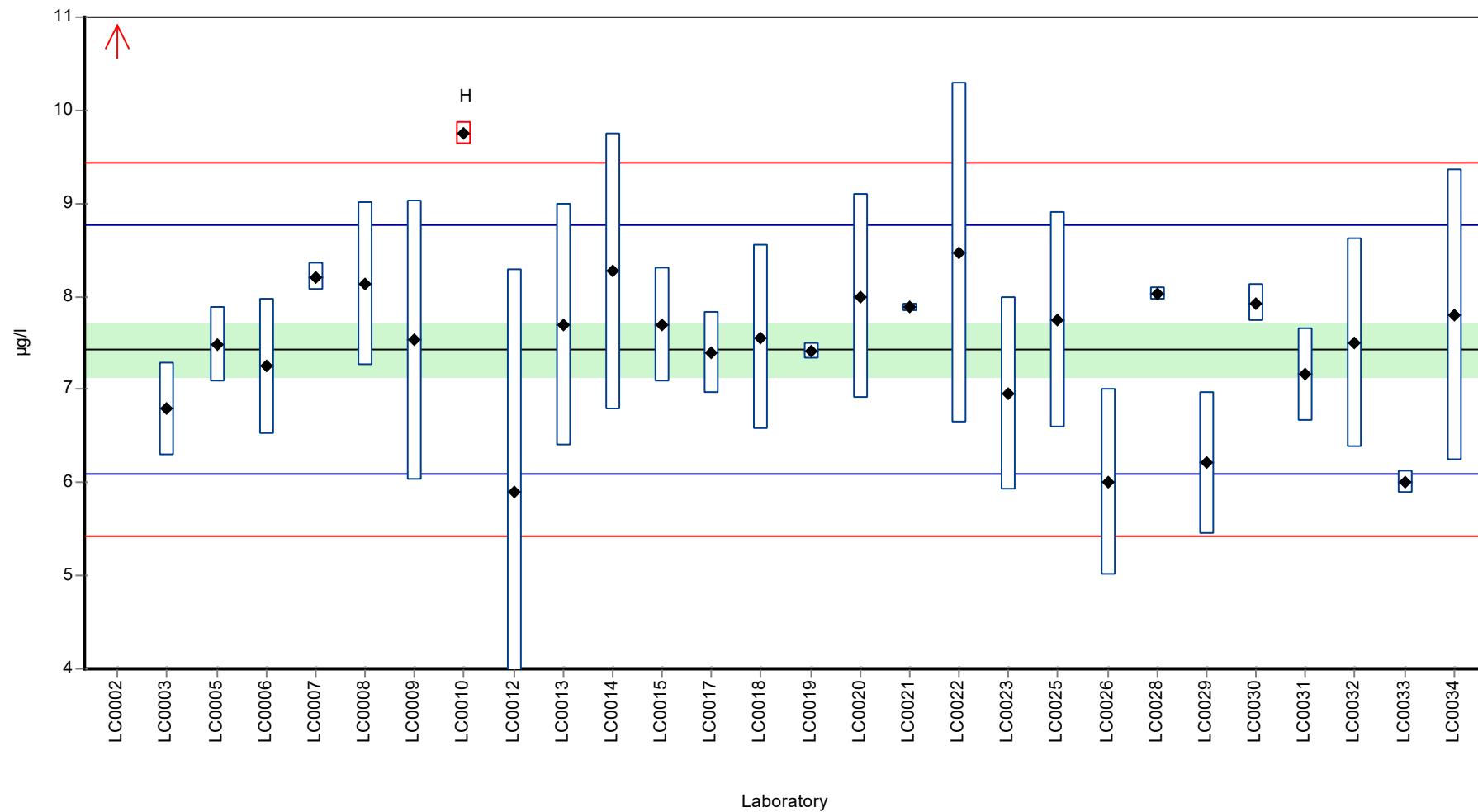
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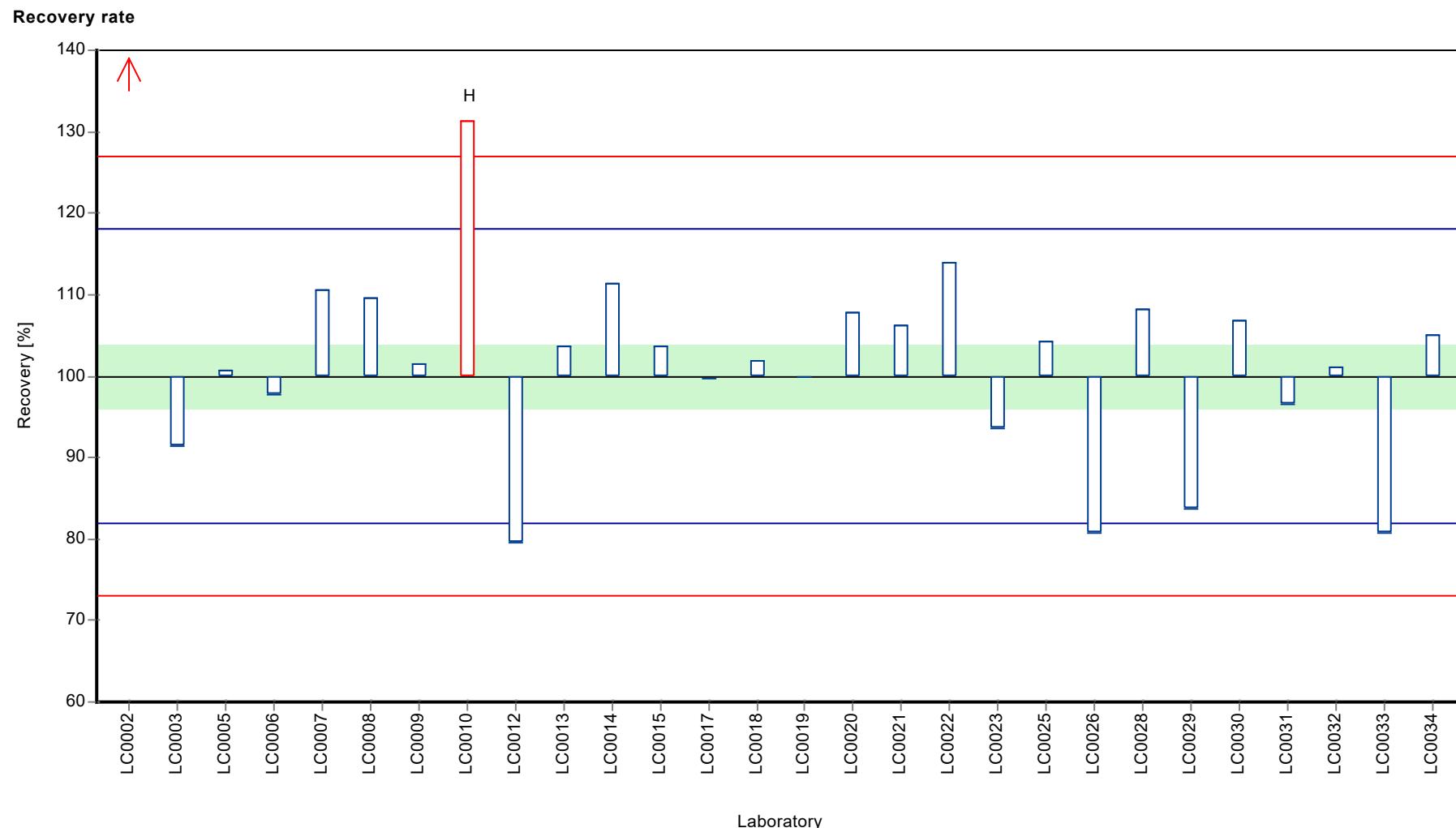
**Characteristics of parameter**

	all results	without outliers	Unit
Mean ± CI (99%)	$7.7 \pm 0.735$	$7.42 \pm 0.426$	µg/l
Minimum	5.9	5.9	µg/l
Maximum	12.8	8.46	µg/l
Standard deviation	1.3	0.724	µg/l
rel. standard deviation	16.9	9.75	%
n	28	26	-

**Graphical presentation of results**

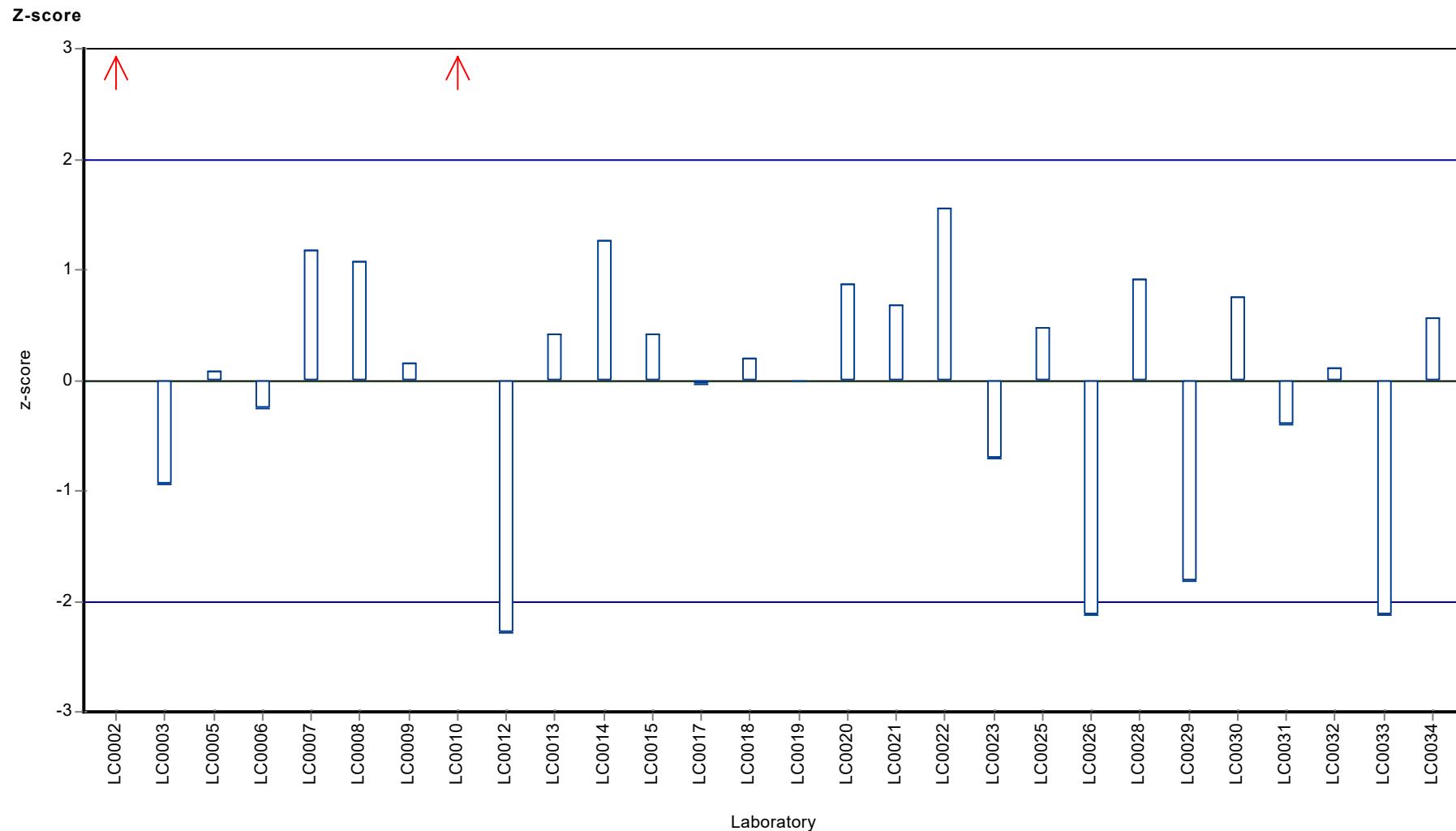
**Results**





Parameter oriented report Metals and trace elements M150

Sample: M150A, Parameter: Copper



## Parameter oriented report

### M150 B

#### Copper

Unit	µg/l
Assigned value ± U (k=2)	76.9 ± 1.7
Criterion	6.92 (9 %)
Minimum - Maximum	65 - 83.8
Control test value ± U (k=2)	77.5 ± 7.54

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	71.4	5.31	92.8	-0.8	
LC0002	73.206	1.201	95.2	-0.54	
LC0003	77.7	5.6	101	0.11	
LC0004	-	-	-	-	
LC0005	74.7	4.1	97.1	-0.32	
LC0006	75.9	7.59	98.7	-0.15	
LC0007	81.3	1.48	106	0.63	
LC0008	81.9	8.84	106	0.72	
LC0009	75.7	15	98.4	-0.18	
LC0010	83.75	1	109	0.98	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	79.8	2.2	104	0.41	
LC0014	81.2	14.6	106	0.62	
LC0015	77	6.16	100	0.01	
LC0016	-	-	-	-	
LC0017	75.4	4.52	98	-0.22	
LC0018	71.72	8	93.2	-0.75	
LC0019	75.457	8.45	98.1	-0.21	
LC0020	81	11	105	0.59	
LC0021	79.7	0.4	104	0.4	
LC0022	77.3	16.3	100	0.05	
LC0023	68.9	10.3	89.6	-1.16	
LC0024	-	-	-	-	
LC0025	93.72	14.06	122	2.43	H
LC0026	65	10	84.5	-1.72	
LC0027	-	-	-	-	
LC0028	80.1	0.838	104	0.46	
LC0029	77.74	9.6	101	0.12	
LC0030	81.38	0.35	106	0.64	
LC0031	74.6	5.2	97	-0.34	
LC0032	81.2	12.2	106	0.62	
LC0033	74	1.48	96.2	-0.42	
LC0034	80	16	104	0.44	

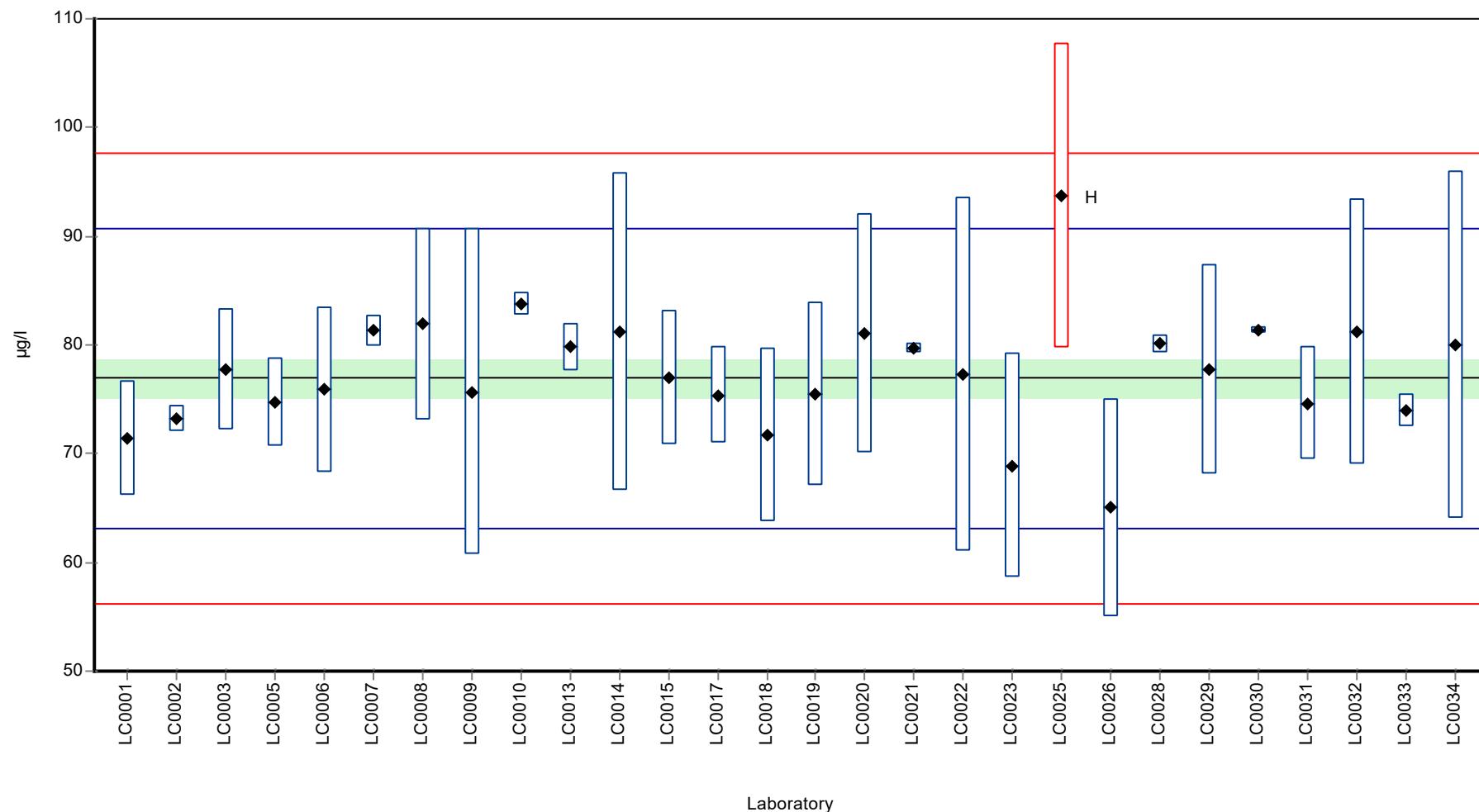
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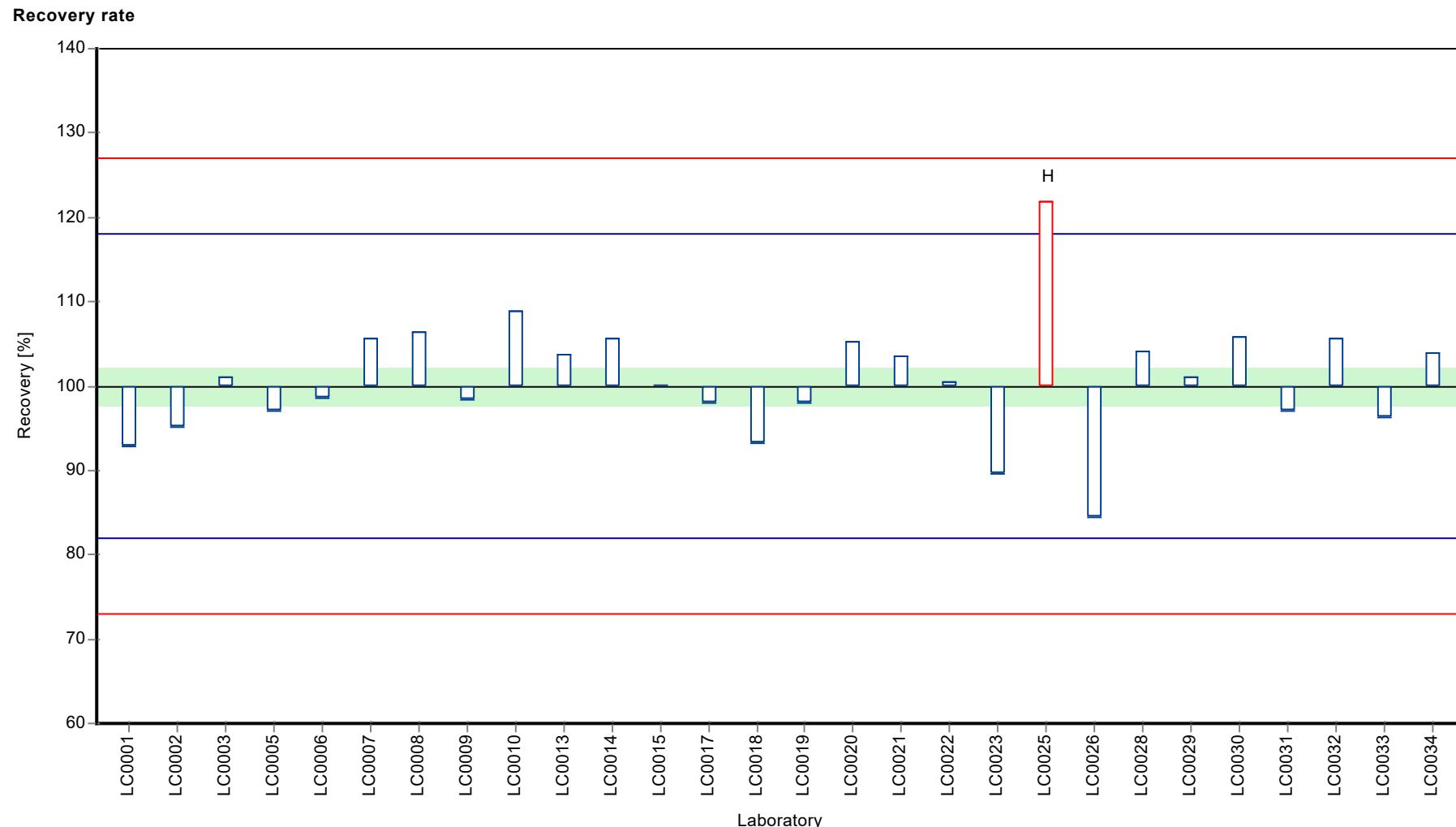
**Characteristics of parameter**

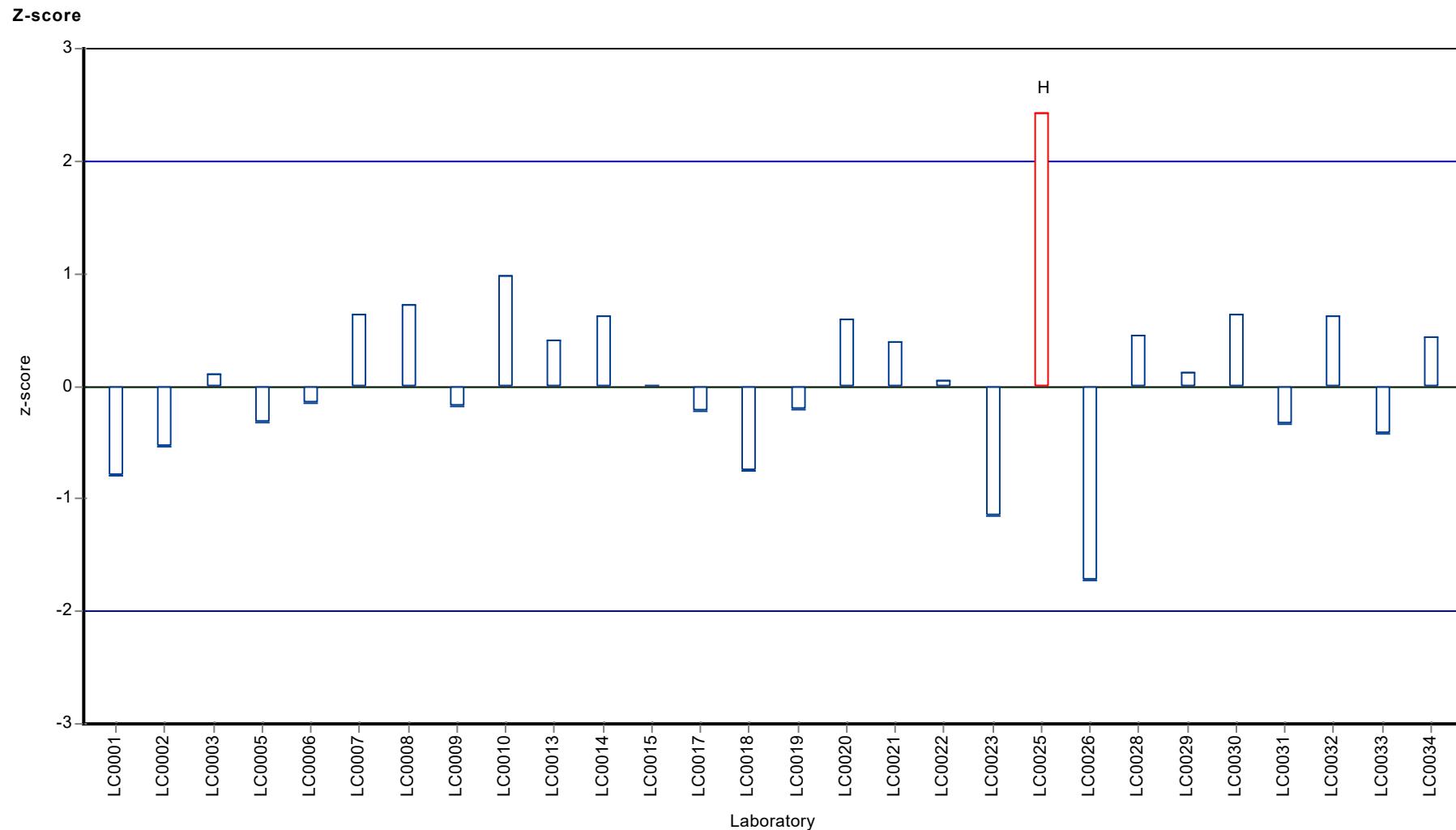
	all results	without outliers	Unit
Mean ± CI (99%)	77.5 ± 3.04	76.9 ± 2.54	µg/l
Minimum	65	65	µg/l
Maximum	93.7	83.8	µg/l
Standard deviation	5.36	4.4	µg/l
rel. standard deviation	6.92	5.73	%
n	28	27	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 A

#### Iron

Unit	µg/l
Assigned value ± U (k=2)	269 ± 4.67
Criterion	48.4 (18 %)
Minimum - Maximum	240 - 297
Control test value ± U (k=2)	275 ± 16.1

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	272.131	4.898	101	0.07	
LC0003	319	103	119	1.04	H
LC0004	-	-	-	-	
LC0005	277	31	103	0.17	
LC0006	262	26.2	97.5	-0.14	
LC0007	285	9.2	106	0.34	
LC0008	276	39.2	103	0.15	
LC0009	267	53	99.4	-0.03	
LC0010	267	1.59	99.4	-0.03	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	281.8	6.6	105	0.27	
LC0014	278	50	103	0.19	
LC0015	269	69.94	100	0.01	
LC0016	260.9	31.3	97.1	-0.16	
LC0017	261	13.1	97.1	-0.16	
LC0018	268.86	25	100	0.00	
LC0019	270.94	17.04	101	0.05	
LC0020	265	27	98.6	-0.08	
LC0021	279	18	104	0.21	
LC0022	273	39	102	0.09	
LC0023	255	38.2	94.9	-0.28	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	240	30	89.3	-0.59	
LC0027	-	-	-	-	
LC0028	254	1.58	94.5	-0.3	
LC0029	261	40	97.1	-0.16	
LC0030	297.1	14.3	111	0.59	
LC0031	249	17	92.7	-0.41	
LC0032	278	27.8	103	0.19	
LC0033	268	5.36	99.7	-0.01	
LC0034	270	54	100	0.03	

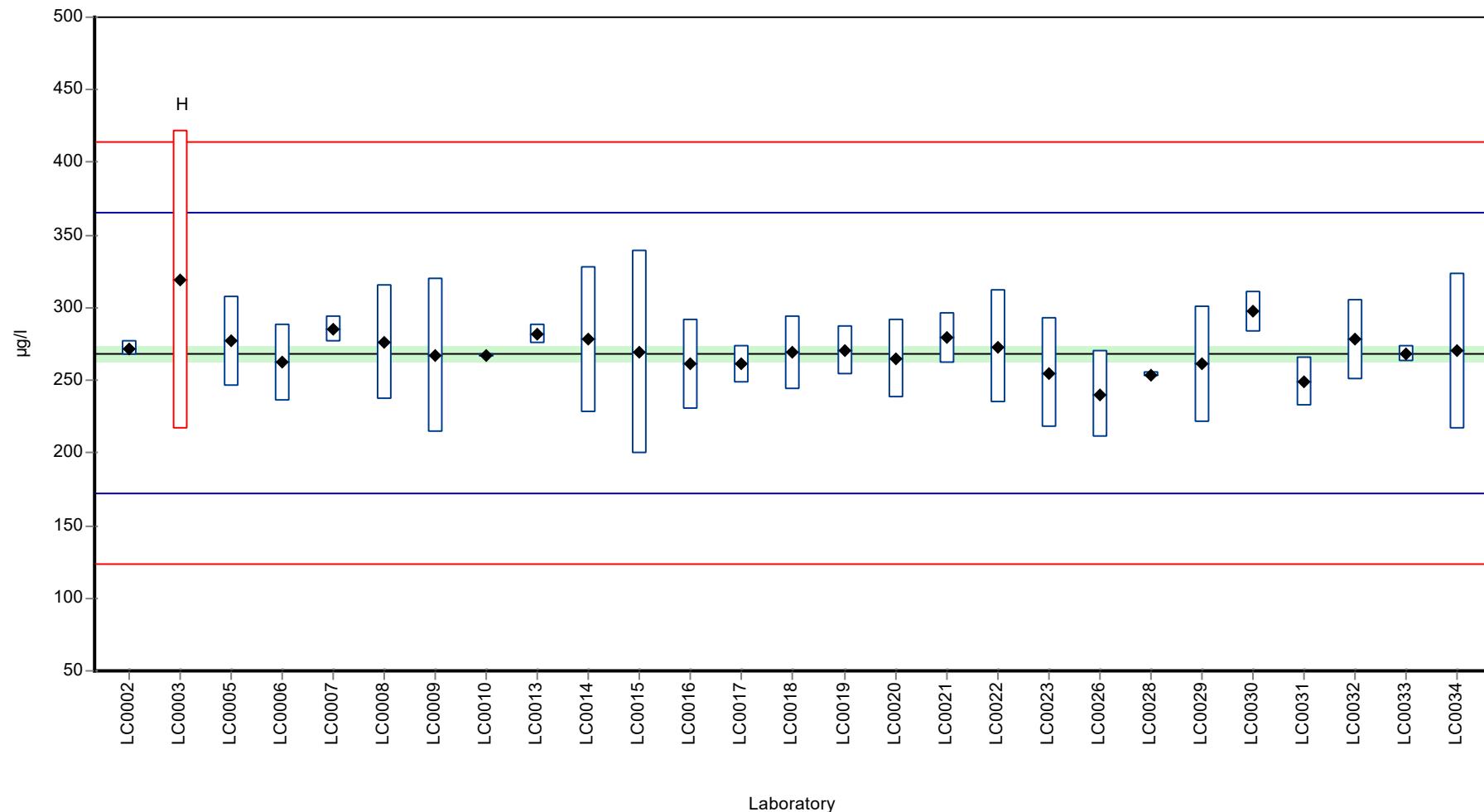
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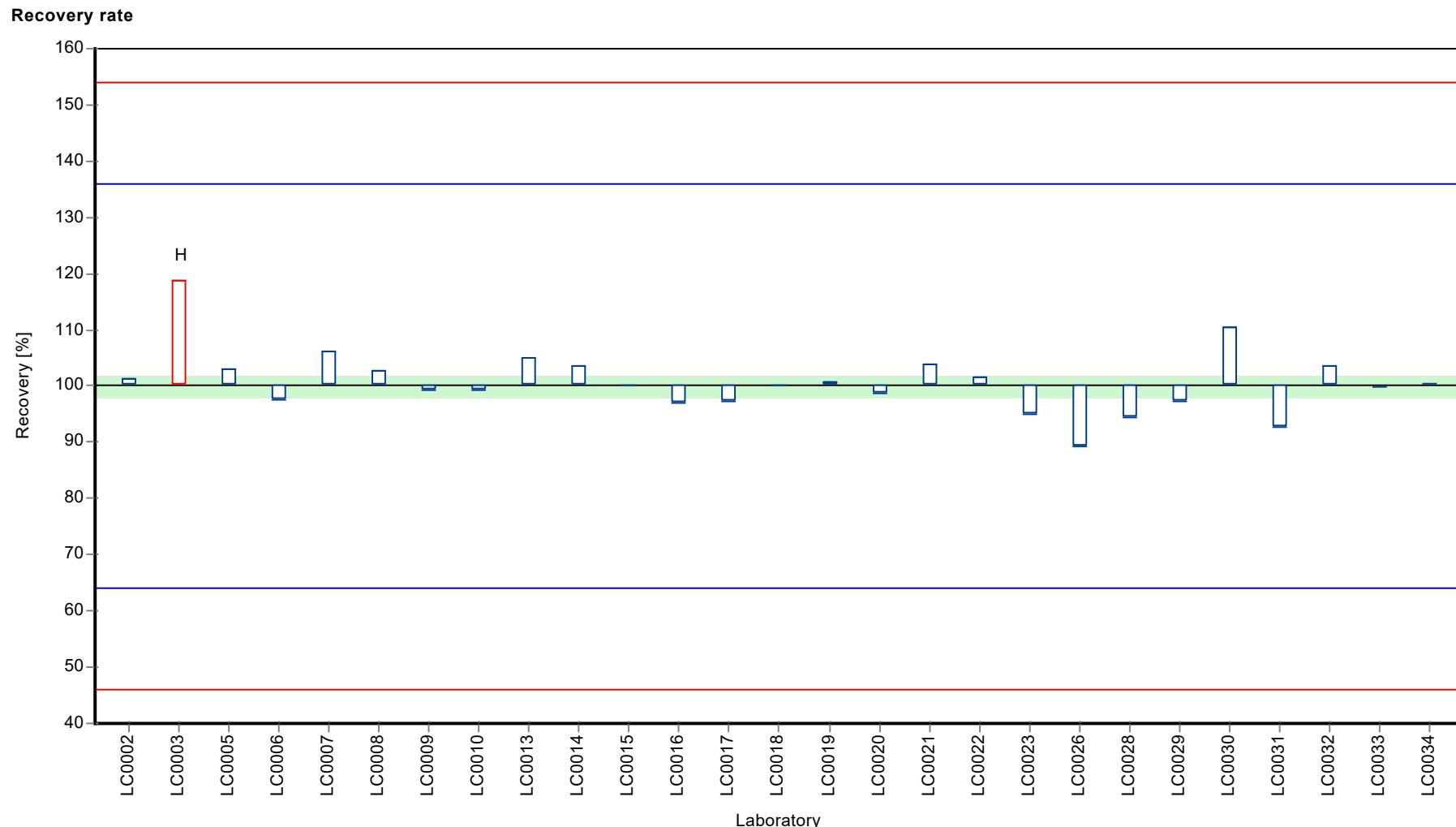
**Characteristics of parameter**

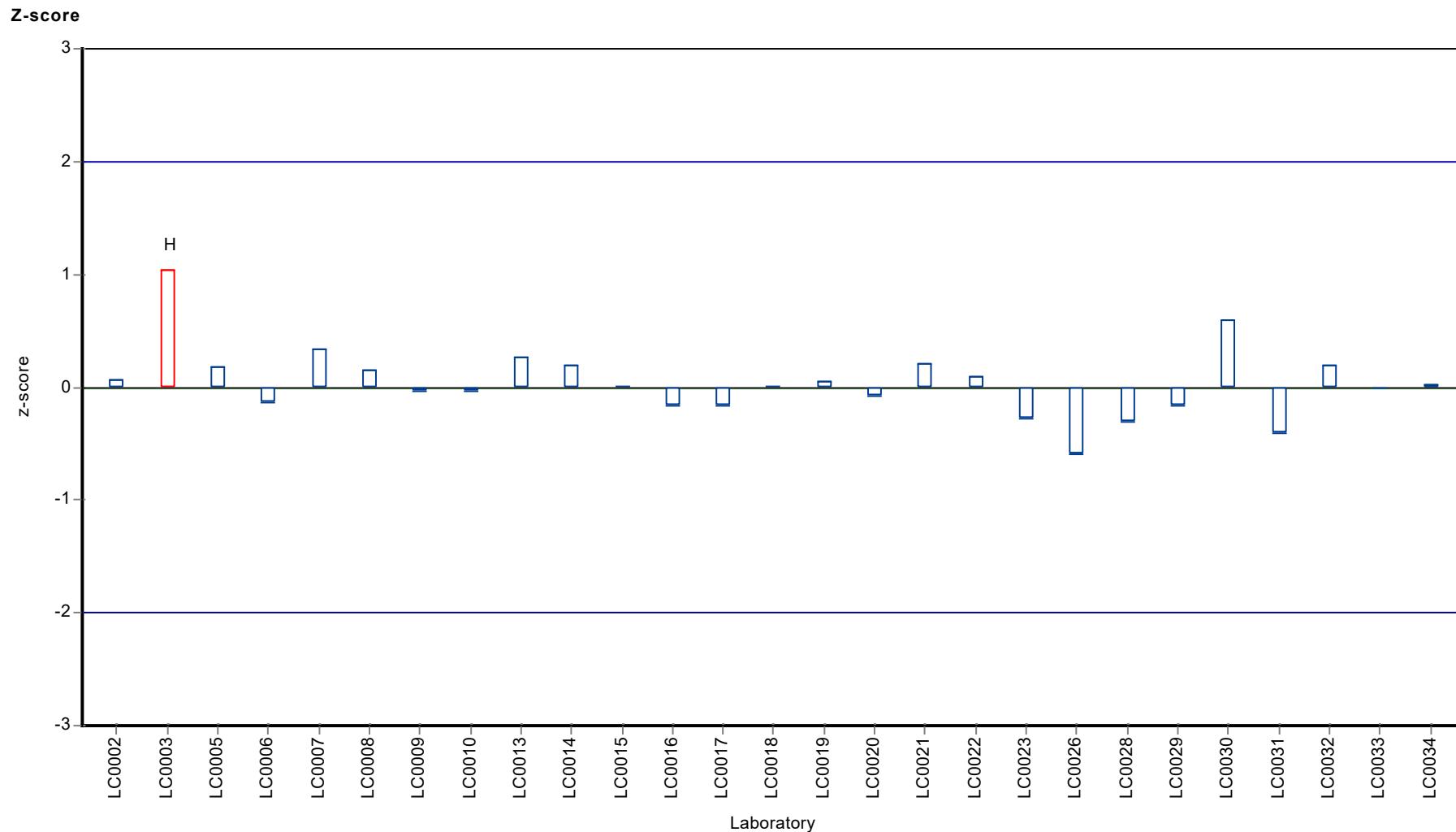
	all results	without outliers	Unit
Mean ± CI (99%)	271 ± 8.76	269 ± 7	µg/l
Minimum	240	240	µg/l
Maximum	319	297	µg/l
Standard deviation	15.2	11.9	µg/l
rel. standard deviation	5.61	4.43	%
n	27	26	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 B

#### Iron

Unit	µg/l
Assigned value ± U (k=2)	86.2 ± 2.34
Criterion	15.5 (18 %)
Minimum - Maximum	72.5 - 101
Control test value ± U (k=2)	83.9 ± 4.62

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	133	8.91	154	3.02	
LC0002	88.143	1.587	102	0.13	
LC0003	93.3	30.3	108	0.46	
LC0004	-	-	-	-	
LC0005	87.9	9.8	102	0.11	
LC0006	84.6	8.46	98.2	-0.1	
LC0007	89.3	0.9	104	0.2	
LC0008	97.1	13.8	113	0.7	
LC0009	85.3	17	99	-0.06	
LC0010	86.75	0.52	101	0.04	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	84.7	1.1	98.3	-0.1	
LC0014	87.1	15.7	101	0.06	
LC0015	83	21.58	96.3	-0.2	
LC0016	82.4	9.9	95.6	-0.24	
LC0017	86.2	4.31	100	0.00	
LC0018	87.94	9	102	0.11	
LC0019	87.21	5.49	101	0.07	
LC0020	89	9	103	0.18	
LC0021	92.9	0.9	108	0.43	
LC0022	86.8	12.3	101	0.04	
LC0023	80	12	92.8	-0.4	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	72.5	12	84.1	-0.88	
LC0027	-	-	-	-	
LC0028	80.1	0.568	92.9	-0.39	
LC0029	78.3	11.7	90.9	-0.51	
LC0030	101.122	3.383	117	0.96	
LC0031	82.7	5.8	96	-0.22	
LC0032	87.2	8.72	101	0.07	
LC0033	120	2.4	139	2.18	H
LC0034	79	15.8	91.7	-0.46	

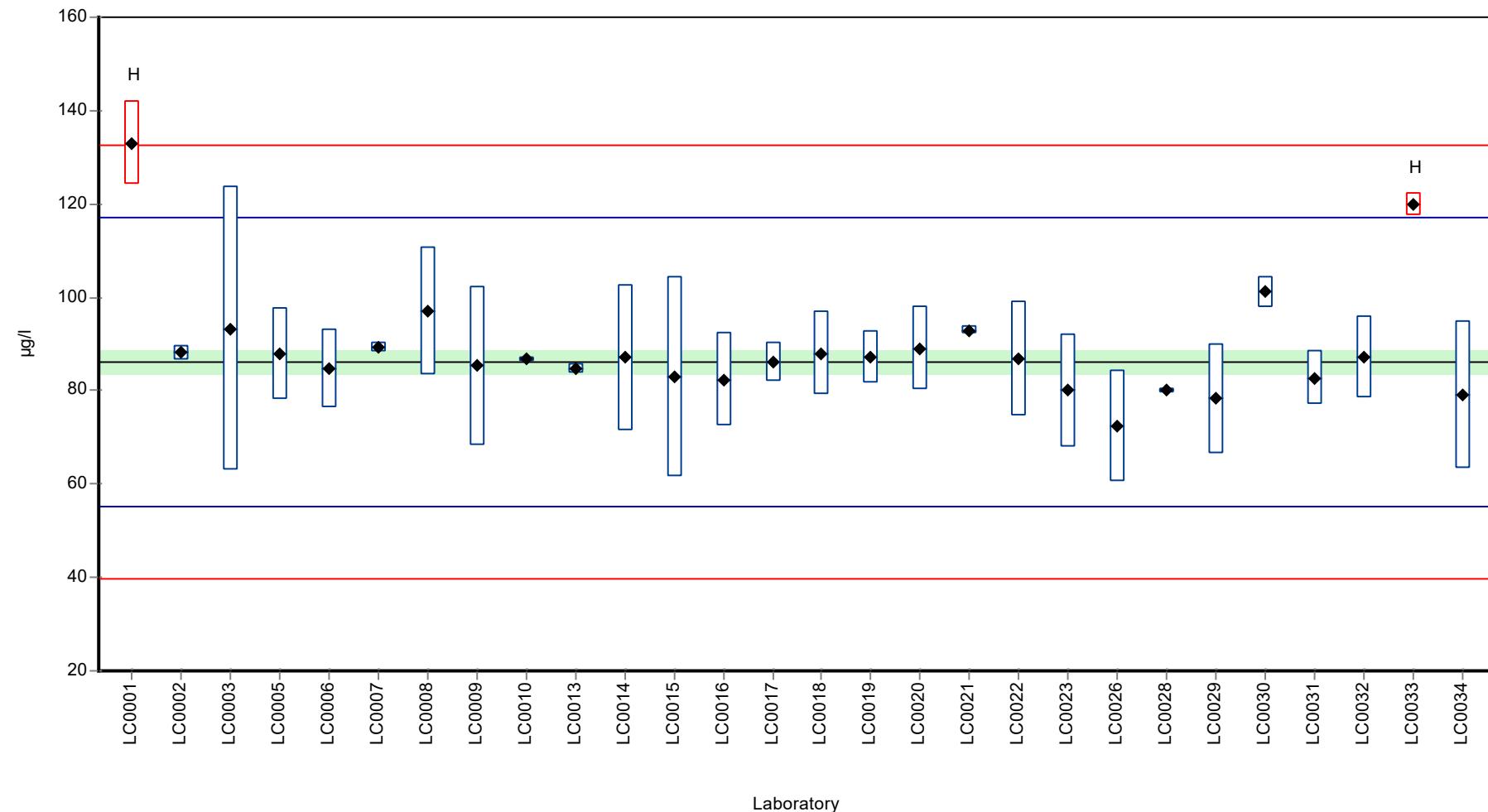
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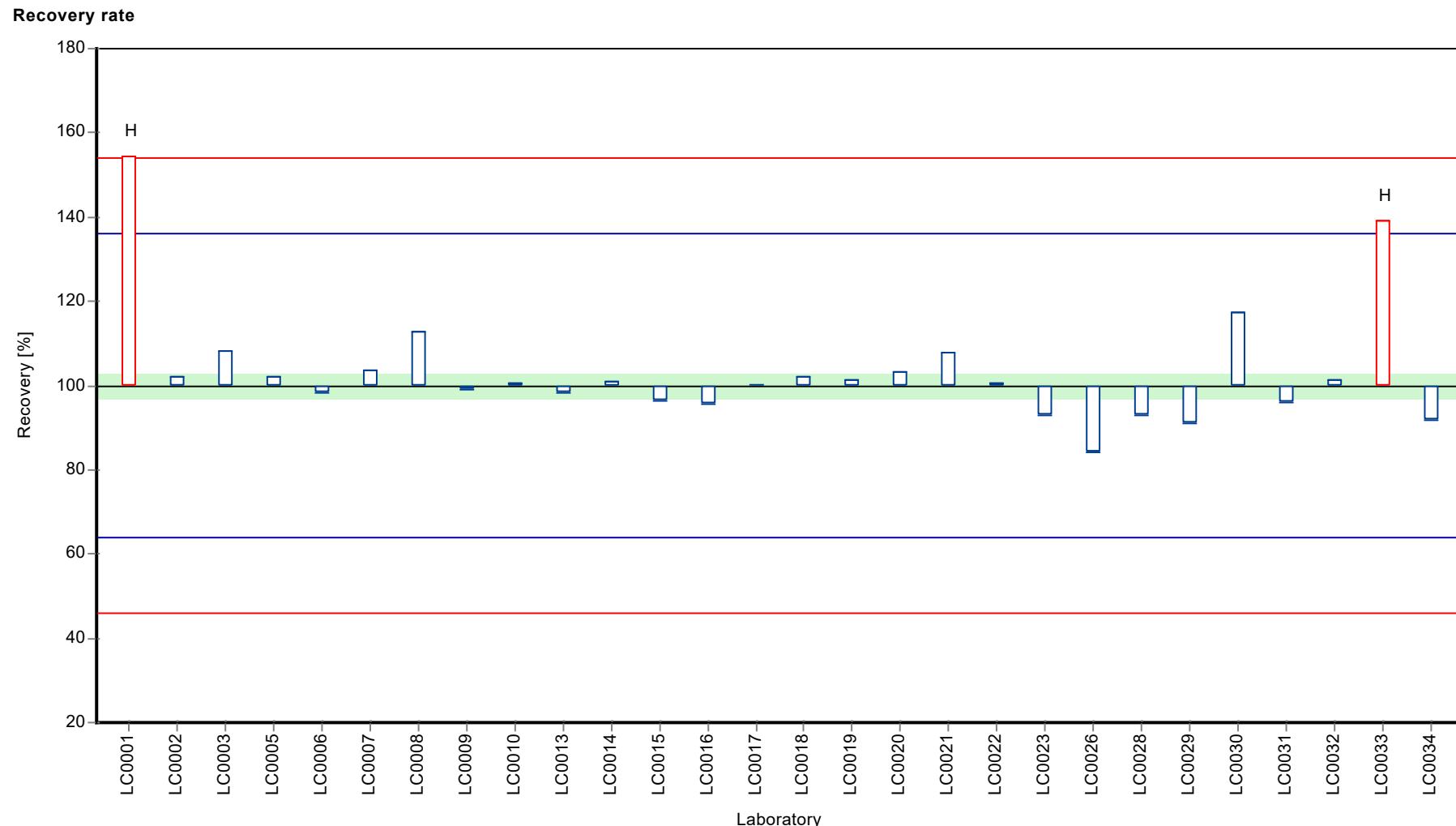
**Characteristics of parameter**

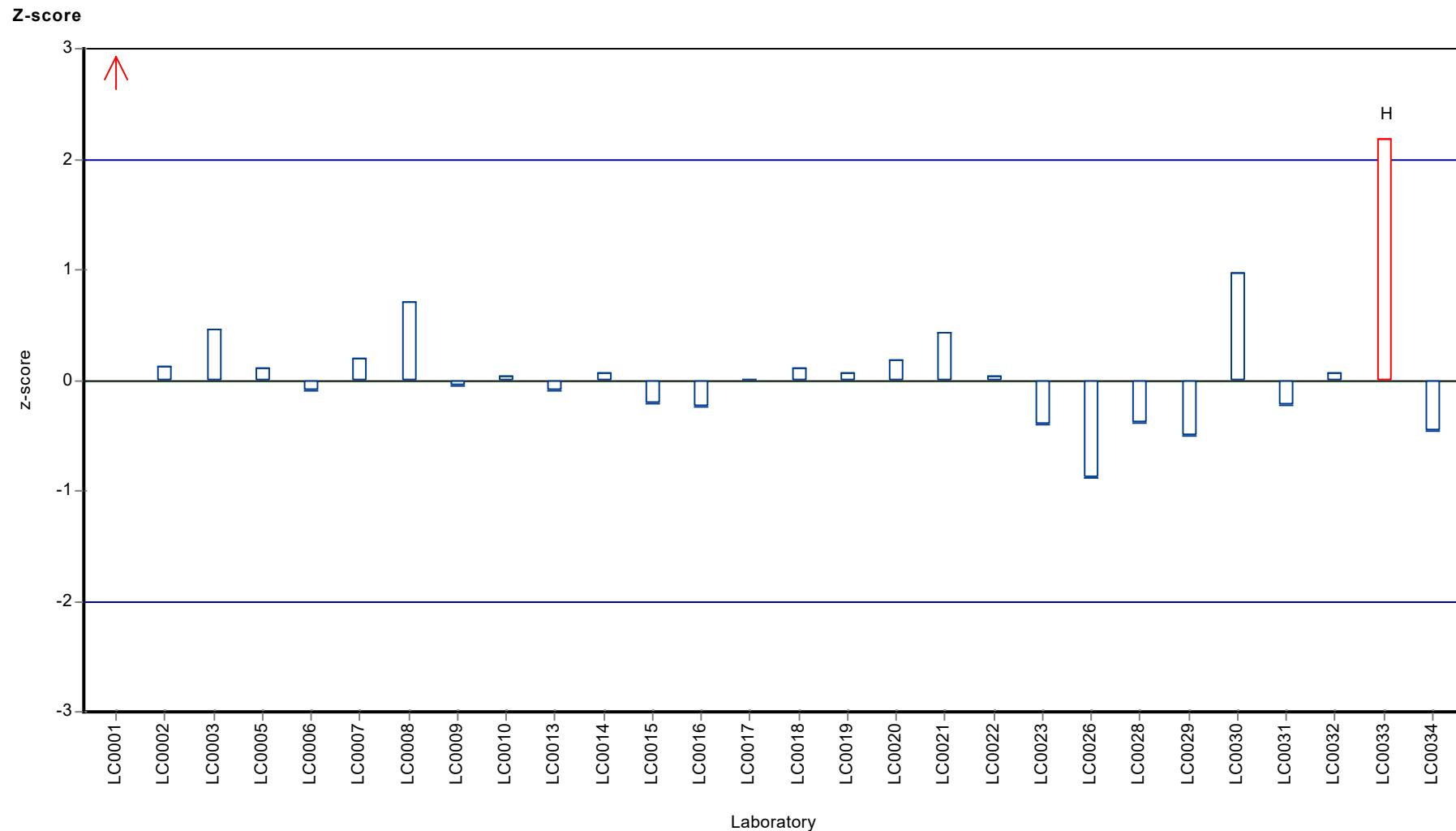
	all results	without outliers	Unit
Mean ± CI (99%)	89.1 ± 6.89	86.2 ± 3.51	µg/l
Minimum	72.5	72.5	µg/l
Maximum	133	101	µg/l
Standard deviation	12.2	5.96	µg/l
rel. standard deviation	13.7	6.91	%
n	28	26	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 A

#### Lead

Unit	µg/l
Assigned value ± U (k=2)	0.562 ± 0.0335
Criterion	0.0844 (15 %)
Minimum - Maximum	0.445 - 0.7
Control test value ± U (k=2)	0.581 ± 0.0635

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.525	0.011	93.3	-0.44	
LC0003	< 1 (LOQ)	-	-	-	
LC0004	-	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	0.53	0.053	94.2	-0.38	
LC0007	< 1 (LOQ)	-	-	-	
LC0008	0.51	0.08	90.7	-0.62	
LC0009	< 1 (LOQ)	-	-	-	
LC0010	< 4.06 (LOQ)	-	-	-	
LC0011	< 1 (LOD)	-	-	-	
LC0012	< 5 (LOQ)	-	-	-	
LC0013	< 1 (LOQ)	-	-	-	
LC0014	0.599	0.108	107	0.43	
LC0015	0.7	0.056	124	1.63	
LC0016	-	-	-	-	
LC0017	0.558	0.05	99.2	-0.05	
LC0018	0.57	0.05	101	0.09	
LC0019	0.586	0.086	104	0.28	
LC0020	< 5 (LOQ)	-	-	-	
LC0021	0.47	0.001	83.6	-1.1	
LC0022	0.62	0.53	110	0.68	
LC0023	< 1 (LOQ)	-	-	-	
LC0024	-	-	-	-	
LC0025	0.4453	0.07	79.2	-1.39	
LC0026	< 0.5 (LOQ)	-	-	-	
LC0027	-	-	-	-	
LC0028	0.627	0.006	111	0.77	
LC0029	1.76	0.27	313	14.2	H
LC0030	0.525	0.025	93.3	-0.44	
LC0031	0.605	0.05	108	0.51	
LC0032	0.566	0.0848	101	0.04	
LC0033	3.9	0.078	693	39.6	H
LC0034	< 1 (LOQ)	-	-	-	

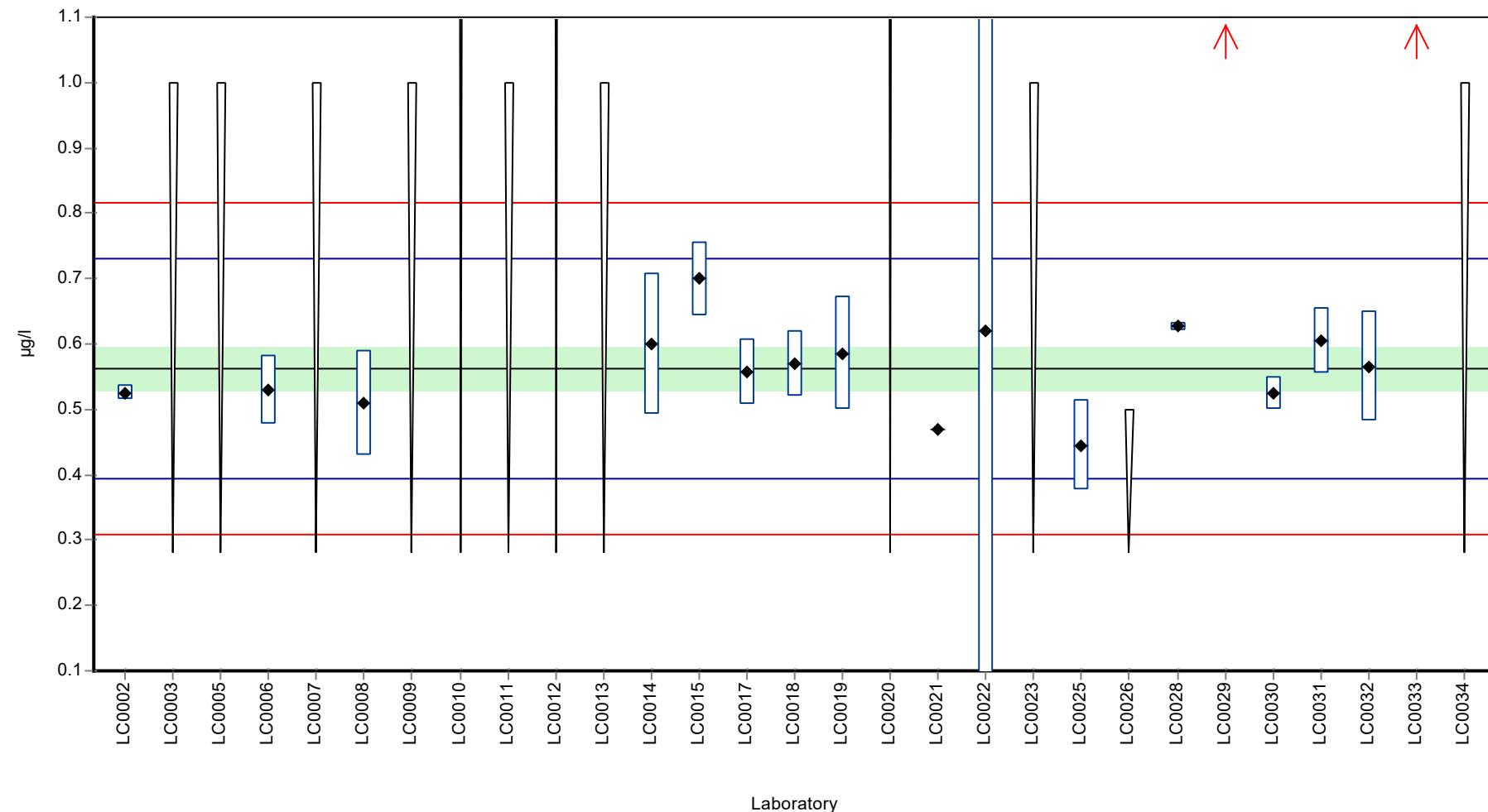
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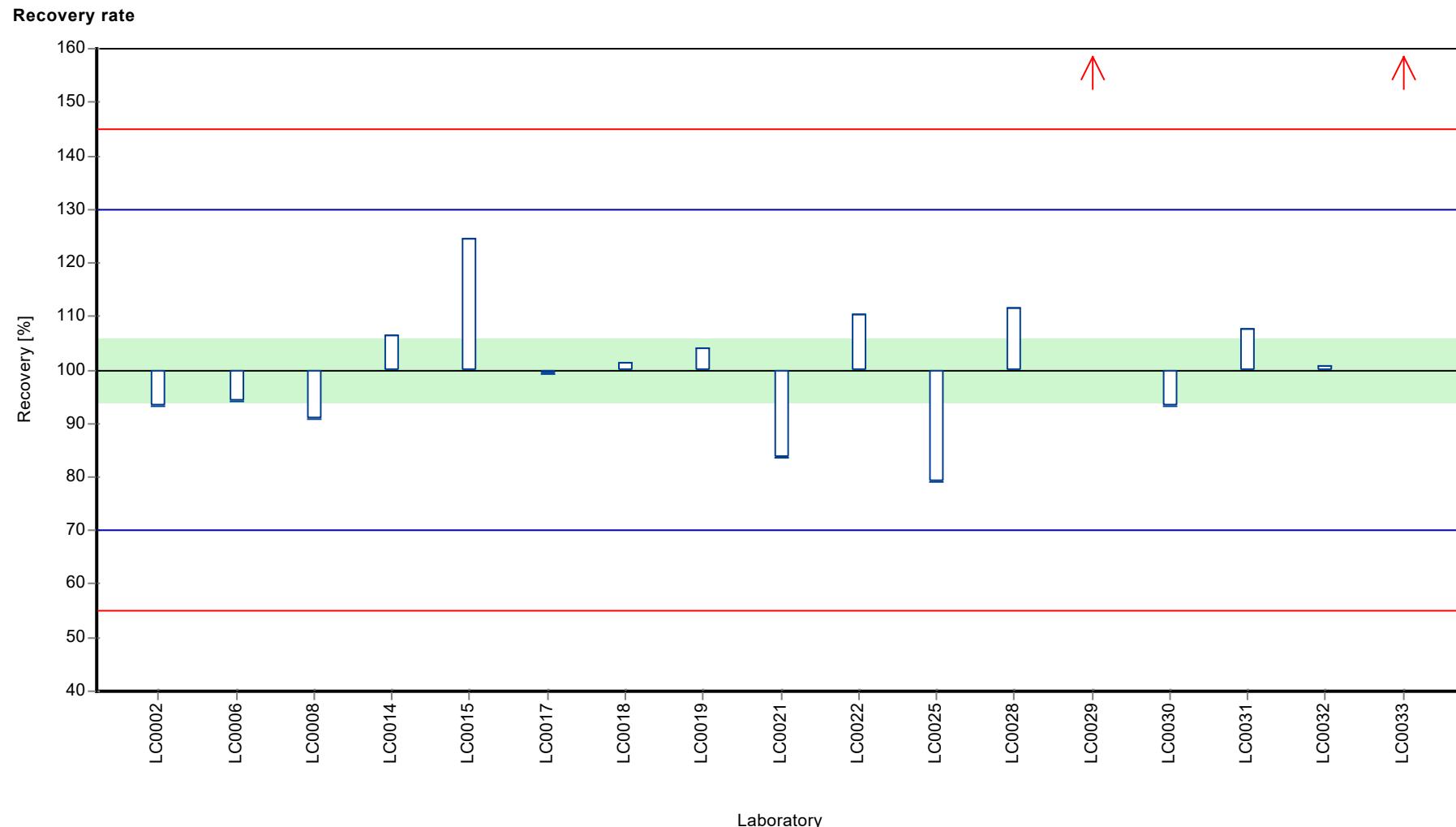
**Characteristics of parameter**

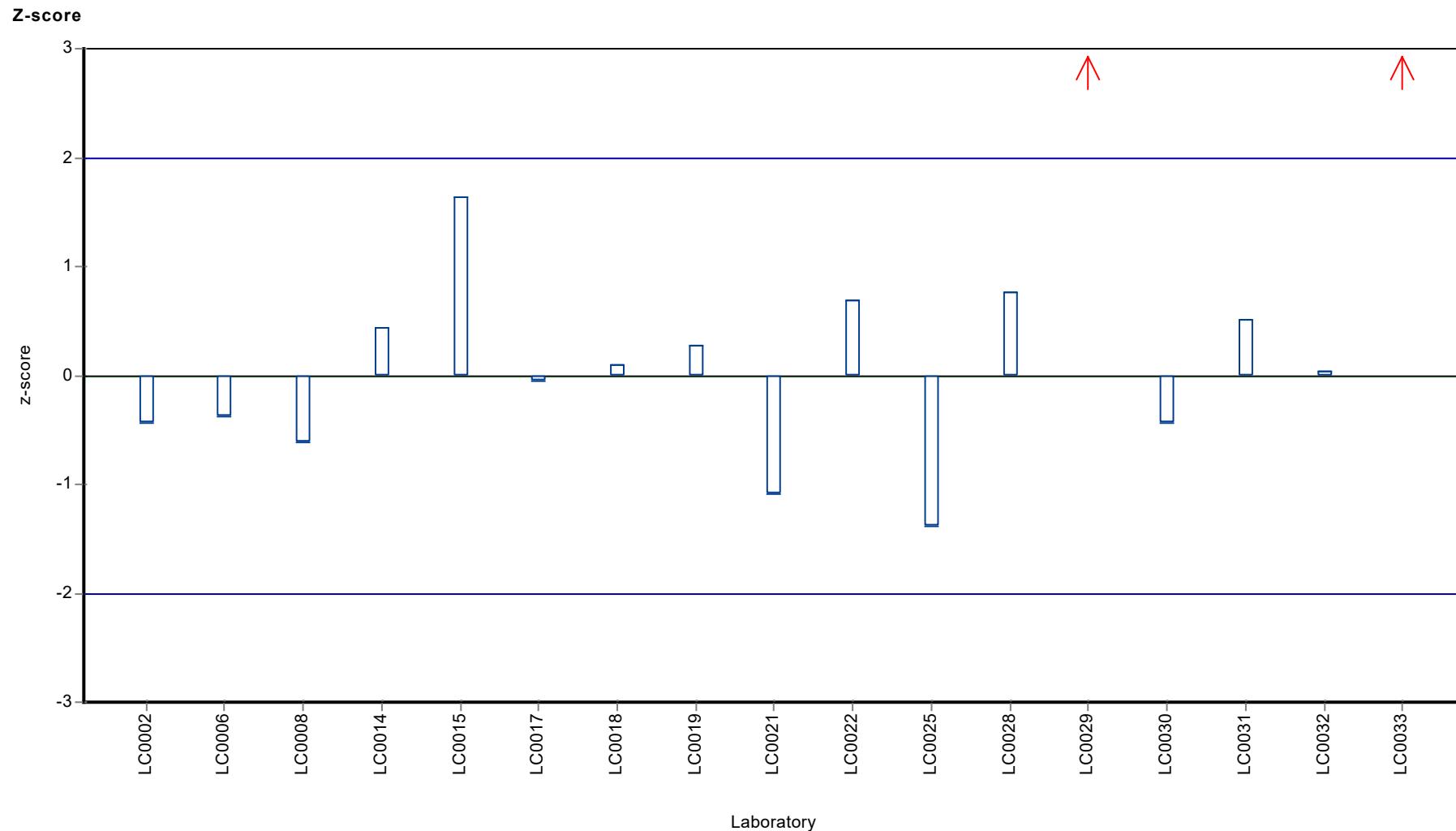
	all results	without outliers	Unit
Mean ± CI (99%)	0.829 ± 0.615	0.562 ± 0.0503	µg/l
Minimum	0.445	0.445	µg/l
Maximum	3.9	0.7	µg/l
Standard deviation	0.845	0.065	µg/l
rel. standard deviation	102	11.5	%
n	17	15	-

### Graphical presentation of results

#### Results







## Parameter oriented report

### M150 B

#### Lead

Unit	µg/l
Assigned value ± U (k=2)	2.52 ± 0.0972
Criterion	0.379 (15 %)
Minimum - Maximum	1.94 - 3
Control test value ± U (k=2)	2.53 ± 0.13

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2.8	0.24	111	0.73	
LC0002	2.354	0.049	93.3	-0.45	
LC0003	2.18	0.16	86.4	-0.91	
LC0004	-	-	-	-	
LC0005	2.55	0.27	101	0.07	
LC0006	2.46	0.246	97.5	-0.17	
LC0007	2.73	0.11	108	0.54	
LC0008	2.49	0.93	98.6	-0.09	
LC0009	2.5	0.5	99	-0.06	
LC0010	< 4.06 (LOQ)	-	-	-	
LC0011	< 3 (LOQ)	-	-	-	
LC0012	-	-	-	-	
LC0013	2.6	0.2	103	0.2	
LC0014	2.61	0.47	103	0.23	
LC0015	3	0.24	119	1.26	
LC0016	-	-	-	-	
LC0017	2.44	0.22	96.7	-0.22	
LC0018	2.53	0.25	100	0.02	
LC0019	2.587	0.38	102	0.17	
LC0020	< 5 (LOQ)	-	-	-	
LC0021	2.27	0.03	89.9	-0.67	
LC0022	2.83	0.92	112	0.81	
LC0023	2.3	0.35	91.1	-0.59	
LC0024	-	-	-	-	
LC0025	1.936	0.29	76.7	-1.55	
LC0026	2.2	0.5	87.2	-0.86	
LC0027	-	-	-	-	
LC0028	2.69	0.046	107	0.44	
LC0029	5.66	0.85	224	8.28	H
LC0030	2.803	0.031	111	0.74	
LC0031	2.5	0.18	99	-0.06	
LC0032	2.62	0.392	104	0.25	
LC0033	4.6	0.092	182	5.48	
LC0034	2.6	0.52	103	0.2	

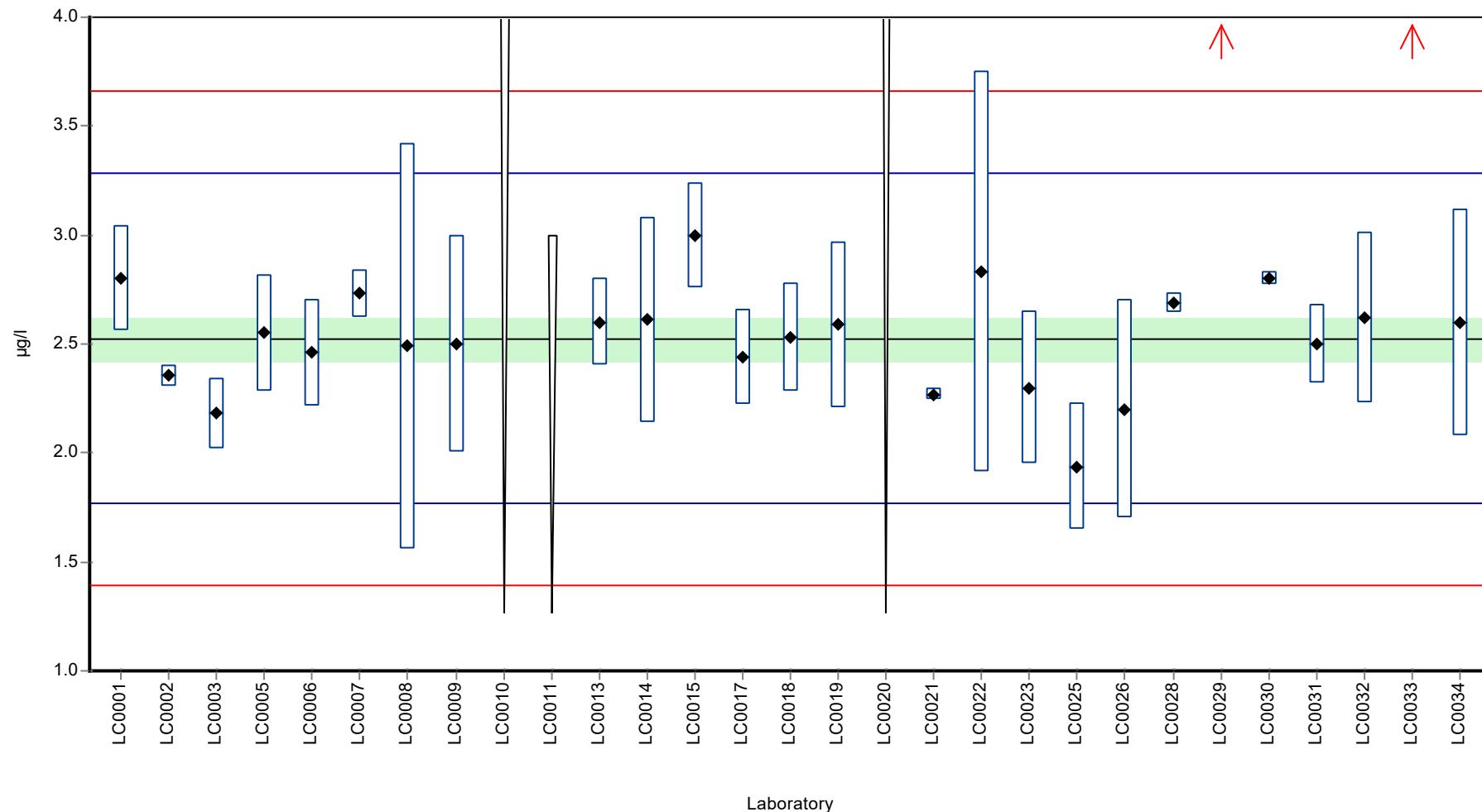
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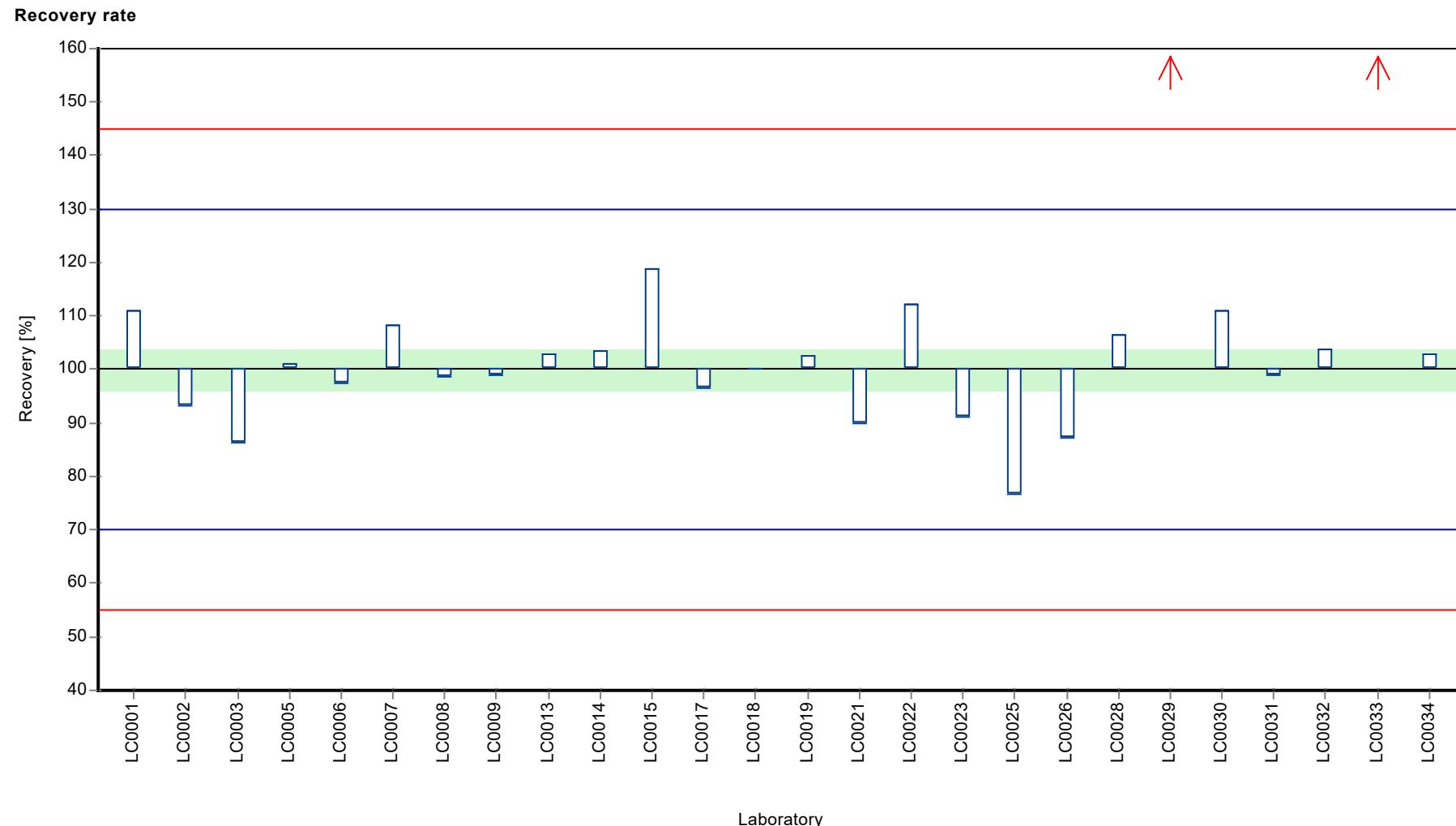
**Characteristics of parameter**

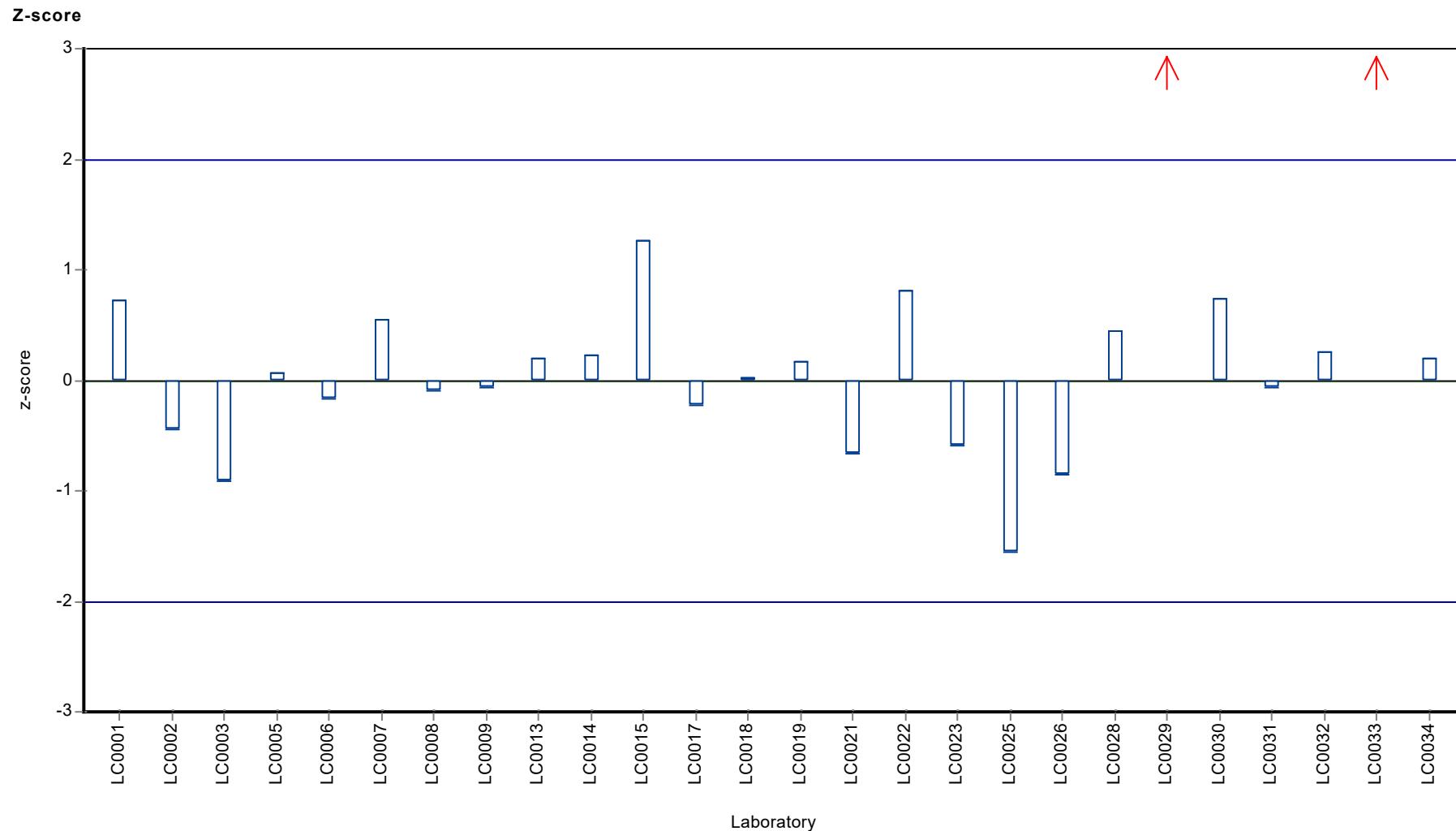
	all results	without outliers	Unit
Mean ± CI (99%)	$2.72 \pm 0.447$	$2.52 \pm 0.146$	µg/l
Minimum	1.94	1.94	µg/l
Maximum	5.66	3	µg/l
Standard deviation	0.759	0.238	µg/l
rel. standard deviation	27.9	9.43	%
n	26	24	-

### Graphical presentation of results

#### Results







## Parameter oriented report

### M150 A

#### Manganese

Unit	µg/l
Assigned value ± U (k=2)	2.47 ± 0.0899
Criterion	0.178 (7.2 %)
Minimum - Maximum	2.31 - 2.83
Control test value ± U (k=2)	2.76 ± 0.16

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	2.353	0.042	95.4	-0.63	
LC0003	< 10 (LOQ)	-	-	-	
LC0004	-	-	-	-	
LC0005	2.32	0.13	94.1	-0.82	
LC0006	2.37	0.24	96.1	-0.54	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	2.48	0.22	101	0.08	
LC0009	2.33	0.5	94.5	-0.76	
LC0010	< 2.53 (LOQ)	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	< 4 (LOQ)	-	-	-	
LC0014	< 5 (LOQ)	-	-	-	
LC0015	3	0.3	122	3.01	H
LC0016	< 10 (LOQ)	-	-	-	
LC0017	2.83	0.17	115	2.05	
LC0018	2.31	0.25	93.7	-0.88	
LC0019	2.458	0.16	99.7	-0.04	
LC0020	< 5 (LOQ)	-	-	-	
LC0021	2.78	0.04	113	1.77	
LC0022	2.63	0.9	107	0.93	
LC0023	< 5 (LOQ)	-	-	-	
LC0024	-	-	-	-	
LC0025	2.377	0.36	96.4	-0.5	
LC0026	2.4	0.4	97.3	-0.37	
LC0027	-	-	-	-	
LC0028	2.5	0.021	101	0.2	
LC0029	1.6	0.15	64.9	-4.88	H
LC0030	2.584	0.011	105	0.67	
LC0031	2.37	0.1	96.1	-0.54	
LC0032	2.38	0.238	96.5	-0.48	
LC0033	3.2	0.064	130	4.14	H
LC0034	2.7	0.54	110	1.32	

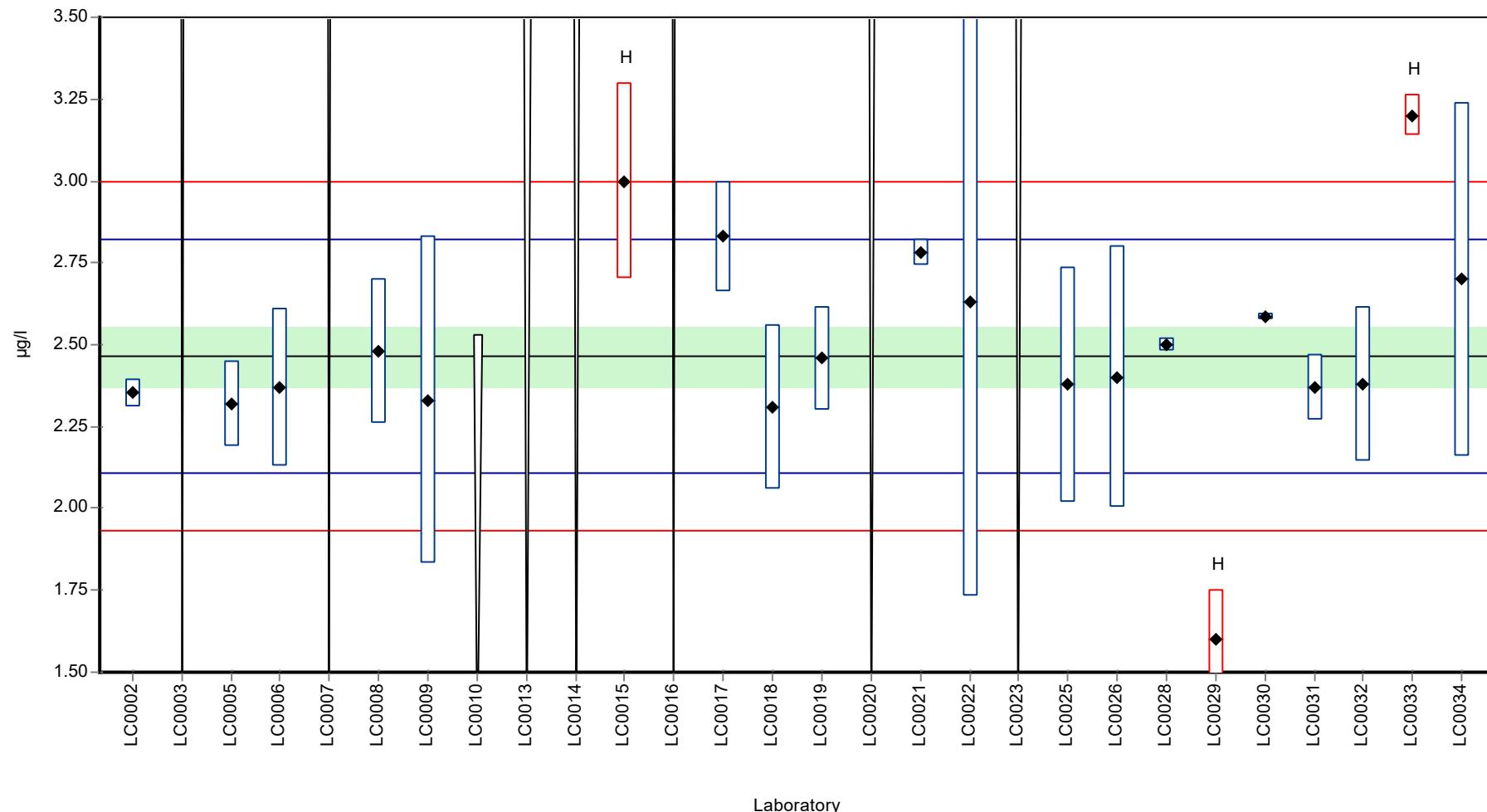
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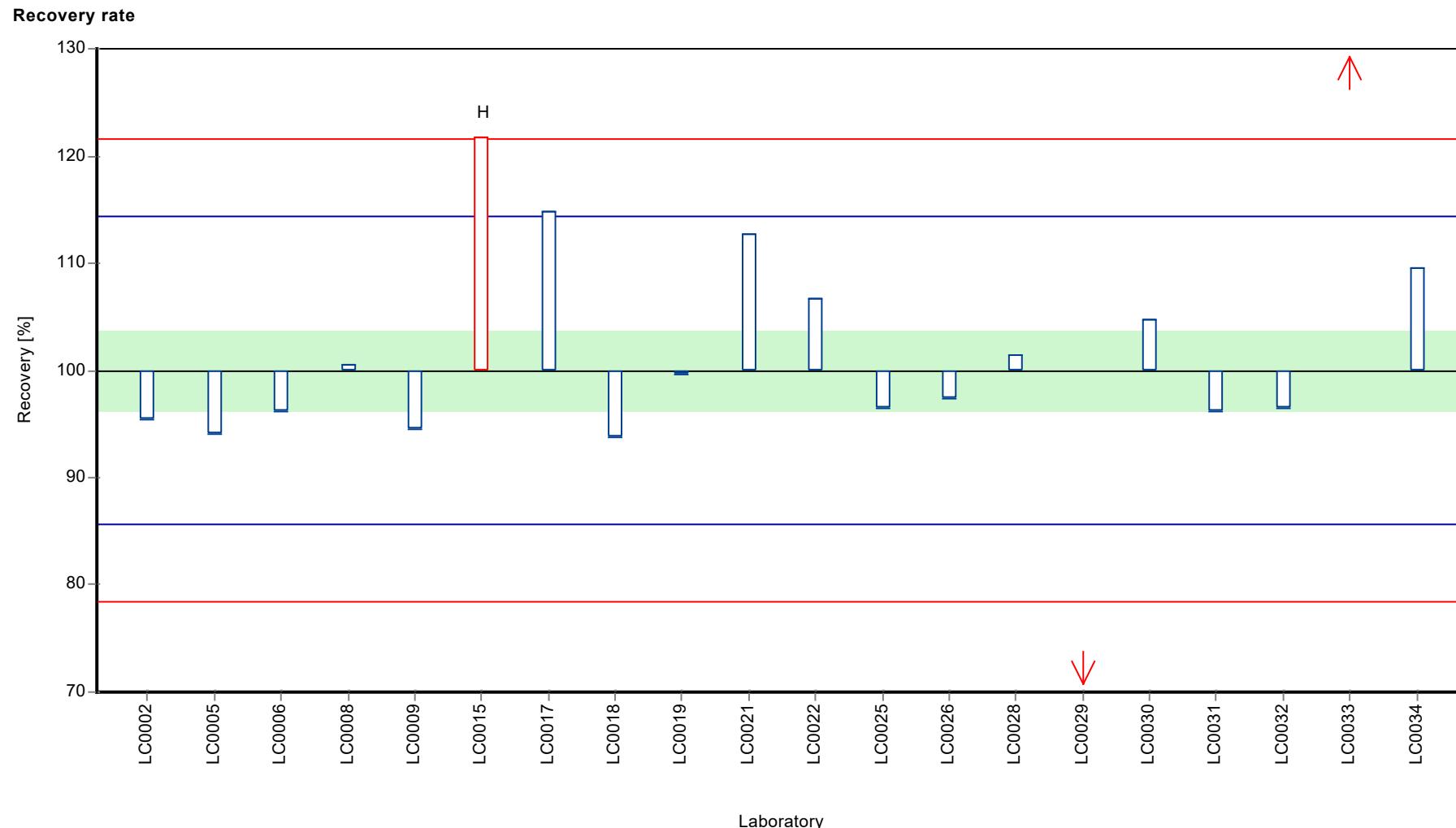
**Characteristics of parameter**

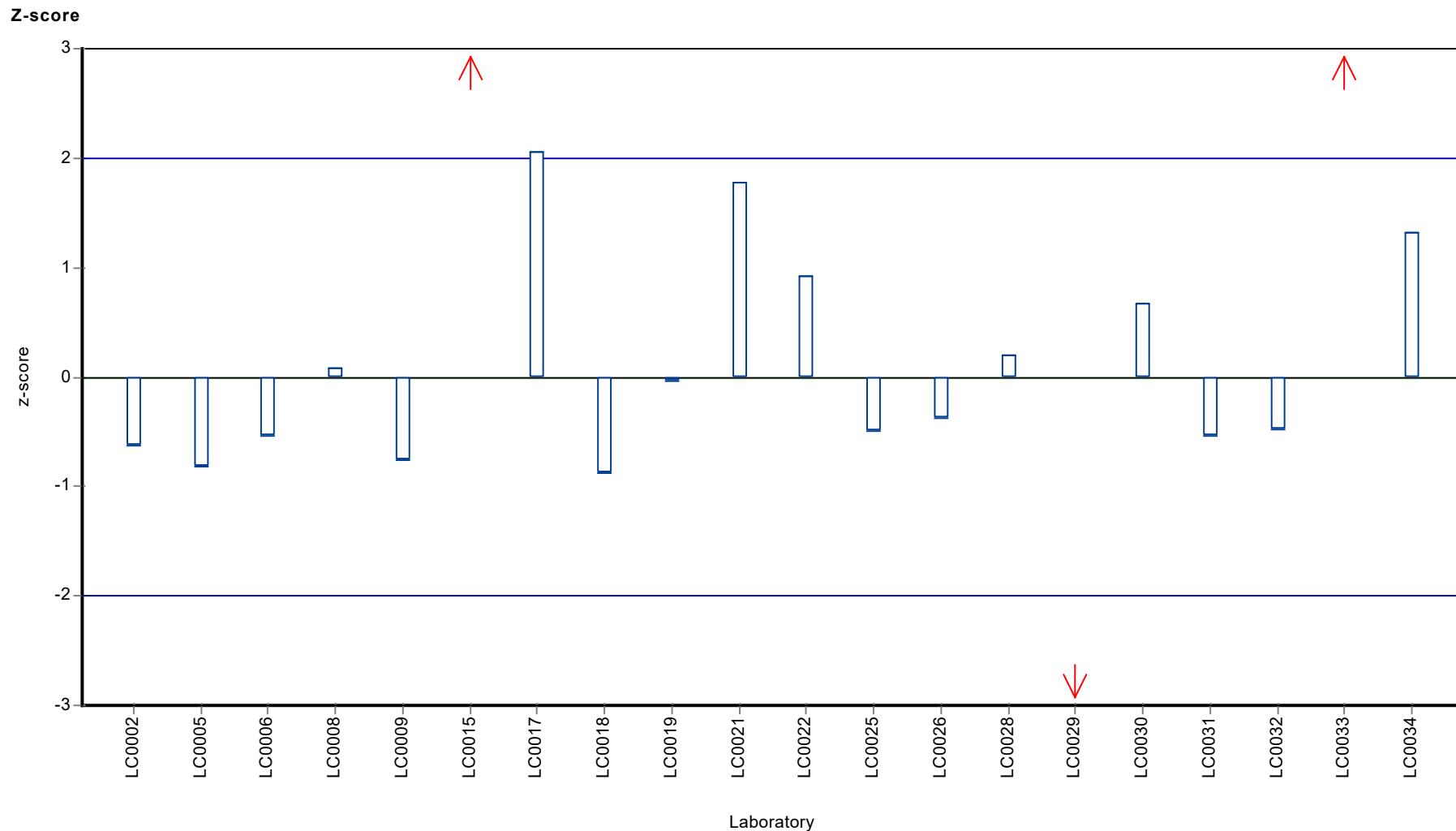
	all results	without outliers	Unit
Mean ± CI (99%)	2.5 ± 0.217	2.48 ± 0.121	µg/l
Minimum	1.6	2.31	µg/l
Maximum	3.2	2.83	µg/l
Standard deviation	0.324	0.166	µg/l
rel. standard deviation	13	6.68	%
n	20	17	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 B

#### Manganese

Unit	$\mu\text{g/l}$
Assigned value $\pm U$ ( $k=2$ )	$18.1 \pm 0.349$
Criterion	1.31 (7.2 %)
Minimum - Maximum	16.2 - 19.8
Control test value $\pm U$ ( $k=2$ )	$18.8 \pm 0.917$

Labcode	Result	$\pm U$	Recovery [%]	z-score	Comments
LC0001	18	1.79	99.3	-0.1	
LC0002	17.013	0.306	93.8	-0.85	
LC0003	19	2.84	105	0.67	
LC0004	-	-	-	-	
LC0005	17.3	0.94	95.4	-0.63	
LC0006	18.1	1.81	99.8	-0.02	
LC0007	17.6	0.7	97.1	-0.41	
LC0008	18.8	1.7	104	0.52	
LC0009	17.3	3.5	95.4	-0.63	
LC0010	18.75	0.15	103	0.48	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	17.8	0.6	98.2	-0.25	
LC0014	18.3	3.29	101	0.13	
LC0015	18	1.8	99.3	-0.1	
LC0016	16.6	2.7	91.6	-1.17	
LC0017	17.6	1.06	97.1	-0.41	
LC0018	17.29	2	95.4	-0.64	
LC0019	18.198	1.2	100	0.05	
LC0020	19	2.3	105	0.67	
LC0021	19.78	0.06	109	1.27	
LC0022	19.1	3.78	105	0.74	
LC0023	16.9	2.53	93.2	-0.94	
LC0024	-	-	-	-	
LC0025	19.7	2.96	109	1.2	
LC0026	16.2	2.2	89.4	-1.48	
LC0027	-	-	-	-	
LC0028	18.4	0.147	102	0.21	
LC0029	14.1	1.3	77.8	-3.09	H
LC0030	19.153	0.764	106	0.79	
LC0031	17.5	1.2	96.5	-0.48	
LC0032	18.3	1.83	101	0.13	
LC0033	18.9	0.378	104	0.59	
LC0034	19	3.8	105	0.67	

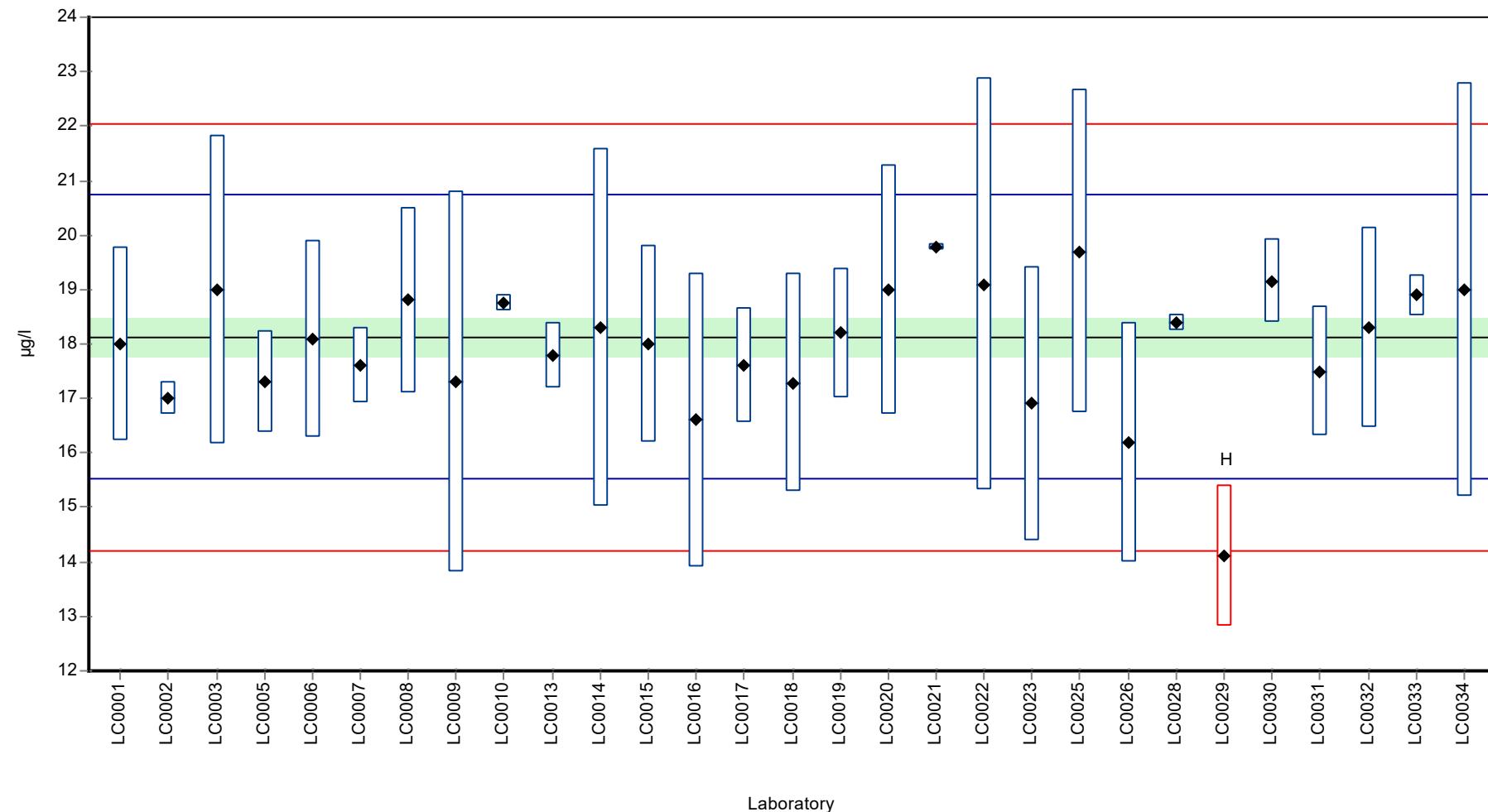
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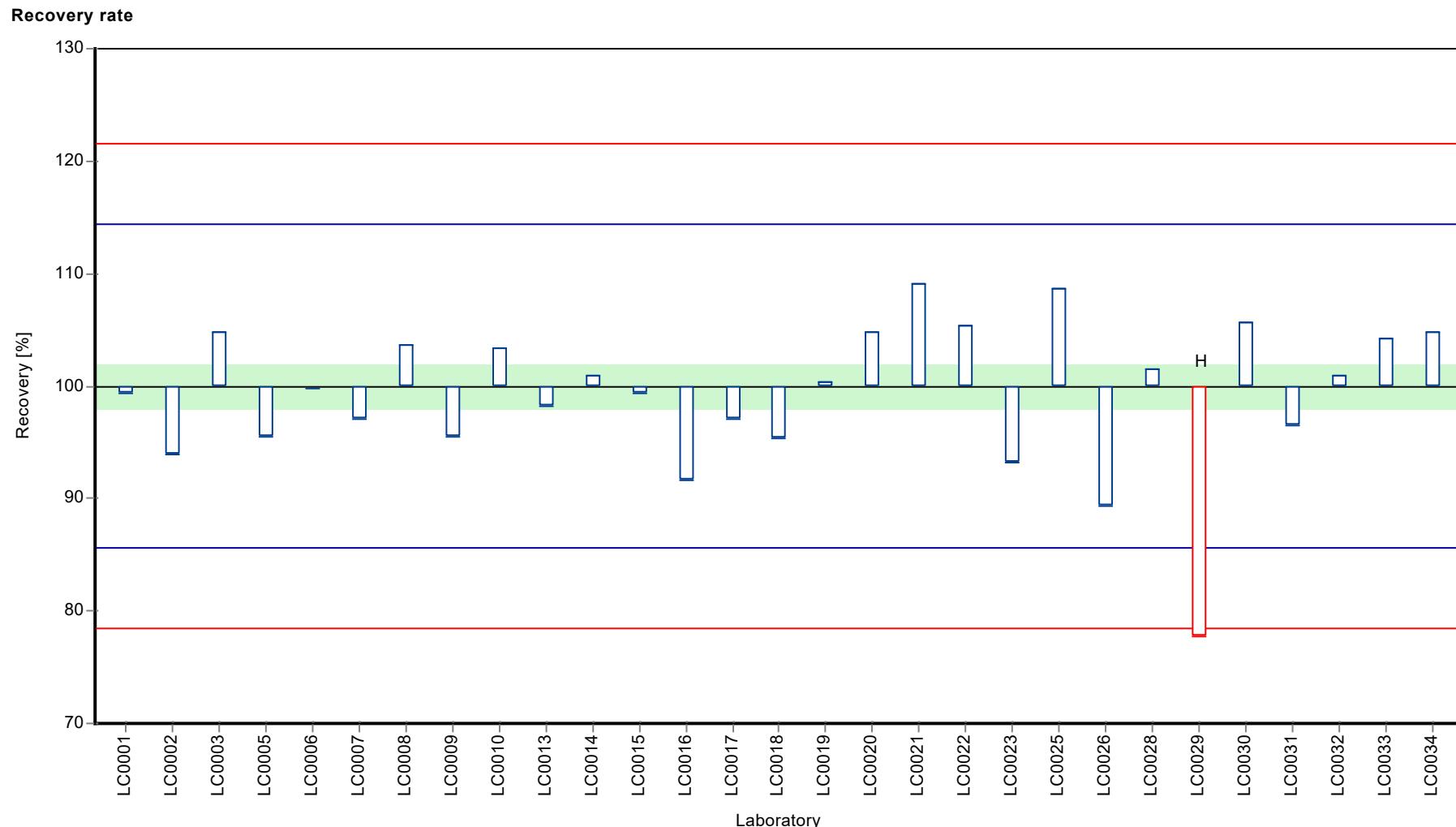
**Characteristics of parameter**

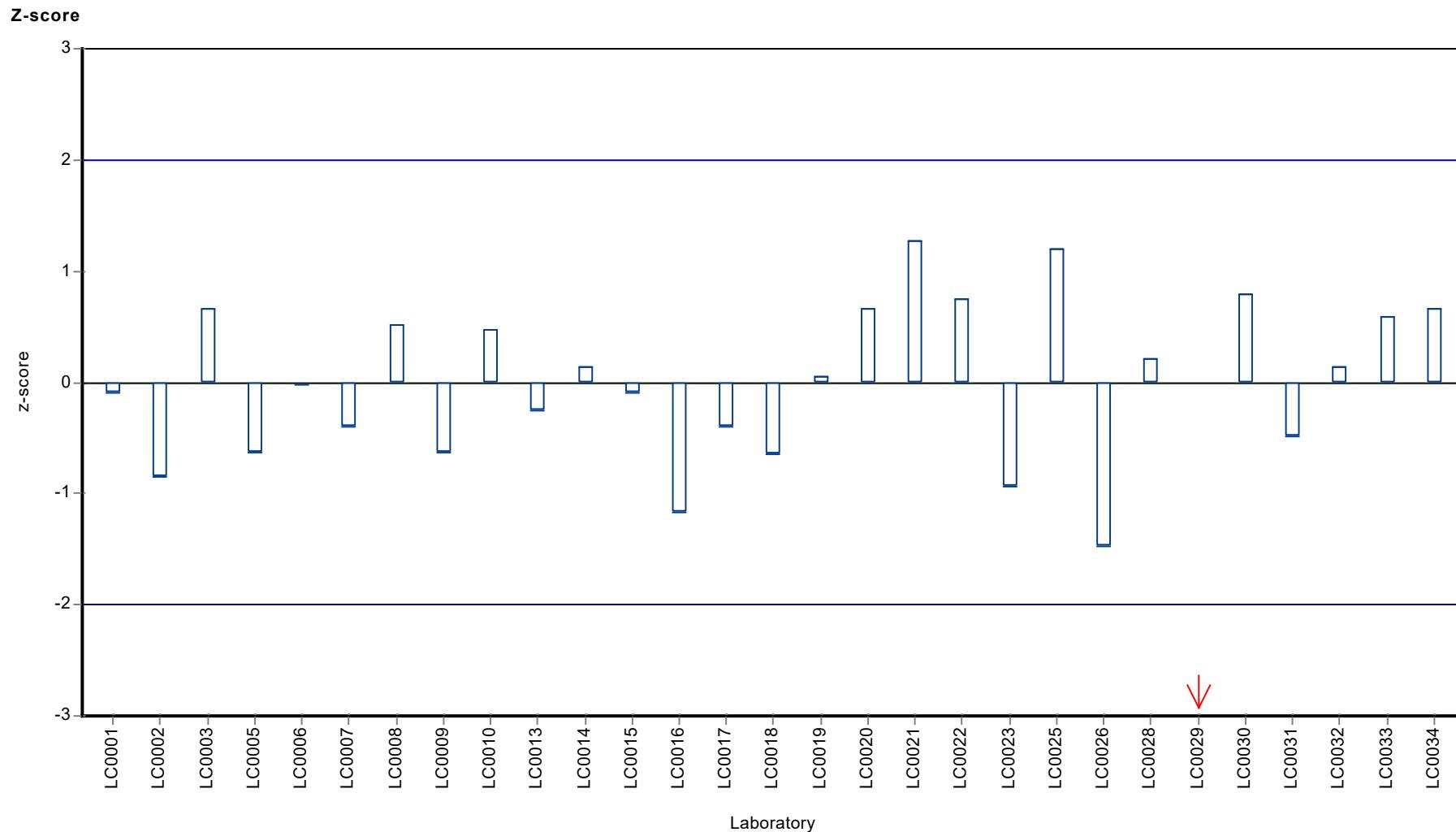
	all results	without outliers	Unit
Mean ± CI (99%)	18 ± 0.655	18.1 ± 0.523	µg/l
Minimum	14.1	16.2	µg/l
Maximum	19.8	19.8	µg/l
Standard deviation	1.18	0.923	µg/l
rel. standard deviation	6.53	5.09	%
n	29	28	-

### Graphical presentation of results

#### Results







## Parameter oriented report

### M150 A Hg

#### Mercury

Unit	$\mu\text{g/l}$
Assigned value $\pm U$ ( $k=2$ )	$0.8 \pm 0.0338$
Criterion	0.112 (14 %)
Minimum - Maximum	0.672 - 1
Control test value $\pm U$ ( $k=2$ )	$0.84 \pm 0.0286$

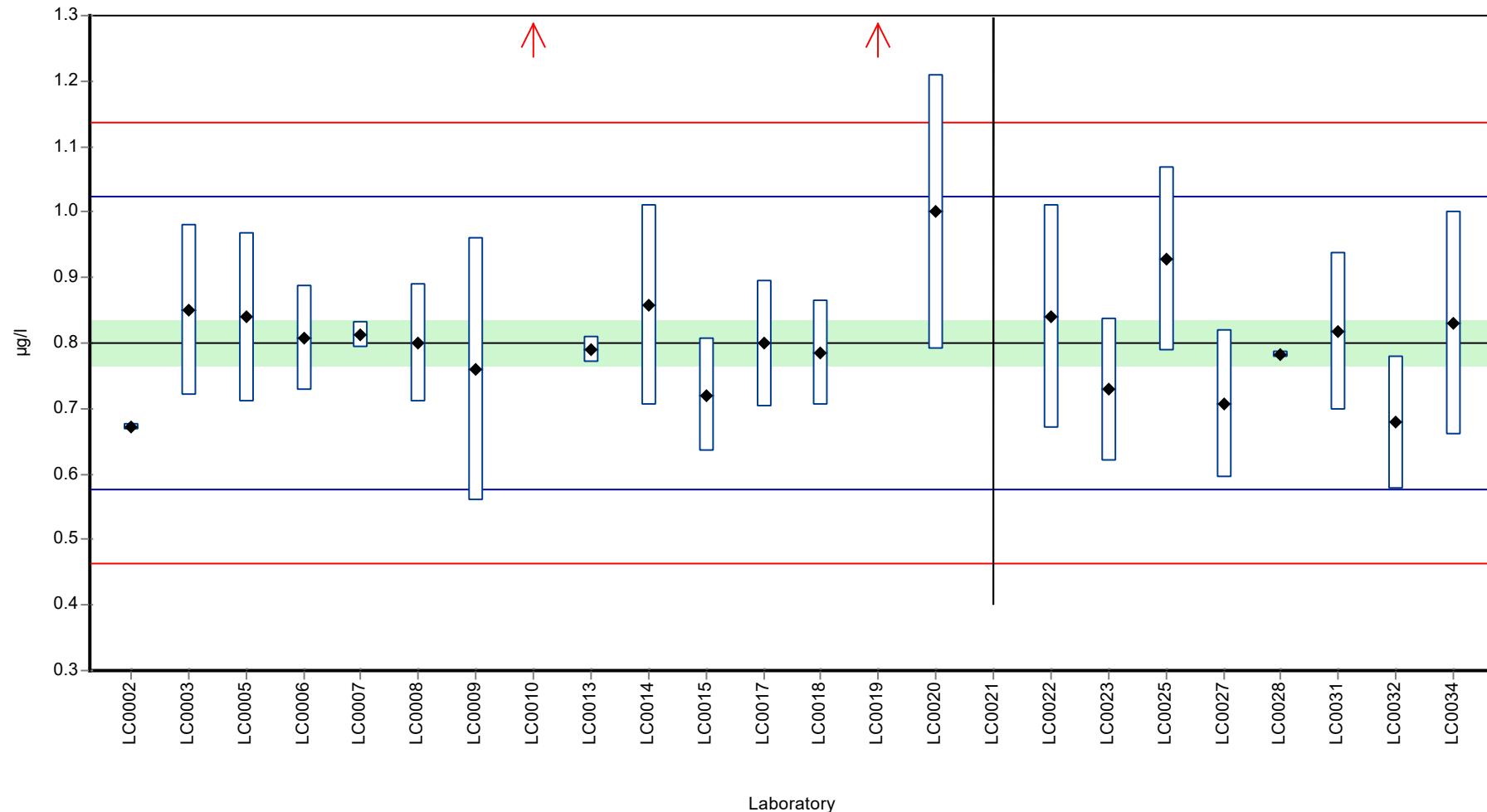
Labcode	Result	$\pm U$	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.672	0.004	84	-1.15	
LC0003	0.85	0.13	106	0.44	
LC0004	-	-	-	-	
LC0005	0.839	0.13	105	0.34	
LC0006	0.808	0.081	101	0.07	
LC0007	0.812	0.02	101	0.1	
LC0008	0.8	0.09	100	0.00	
LC0009	0.76	0.2	95	-0.36	
LC0010	2.61	0.26	326	16.2	H
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.79	0.02	98.7	-0.09	
LC0014	0.858	0.154	107	0.52	
LC0015	0.72	0.0864	90	-0.72	
LC0016	-	-	-	-	
LC0017	0.799	0.096	99.8	-0.01	
LC0018	0.785	0.08	98.1	-0.14	
LC0019	2.318	0.55	290	13.5	H
LC0020	1	0.21	125	1.78	
LC0021	< 10 (LOQ)	-	-	-	
LC0022	0.84	0.17	105	0.35	
LC0023	0.729	0.109	91.1	-0.64	
LC0024	-	-	-	-	
LC0025	0.9278	0.14	116	1.14	
LC0026	-	-	-	-	
LC0027	0.7068	0.114	88.3	-0.83	
LC0028	0.783	0.005	97.8	-0.15	
LC0029	-	-	-	-	
LC0030	-	-	-	-	
LC0031	0.818	0.12	102	0.16	
LC0032	0.679	0.102	84.8	-1.08	
LC0033	-	-	-	-	
LC0034	0.83	0.17	104	0.27	

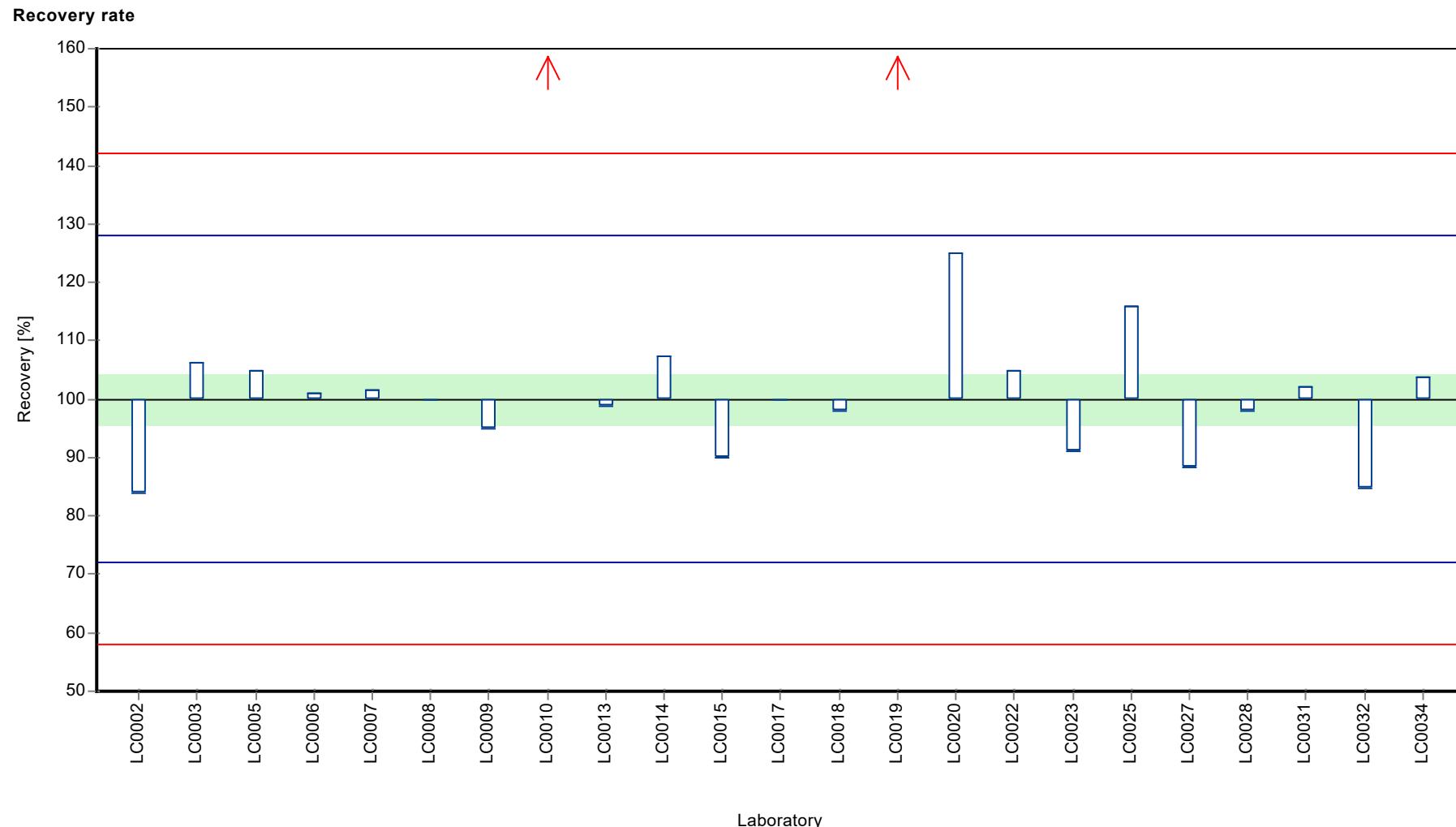
**Characteristics of parameter**

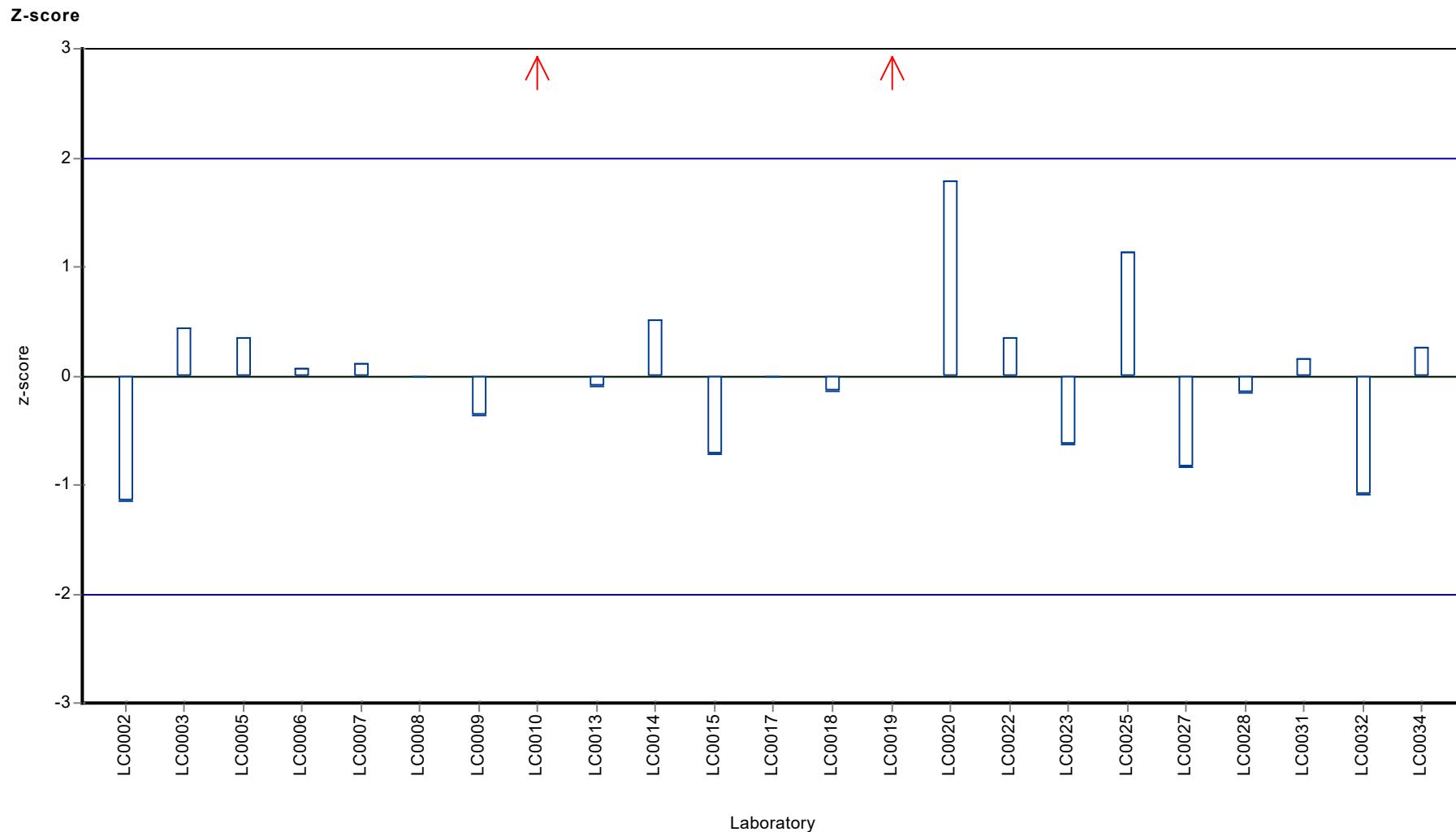
	all results	without outliers	Unit
Mean ± CI (99%)	0.945 ± 0.305	0.8 ± 0.0507	µg/l
Minimum	0.672	0.672	µg/l
Maximum	2.61	1	µg/l
Standard deviation	0.487	0.0775	µg/l
rel. standard deviation	51.5	9.68	%
n	23	21	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 B Hg

#### Mercury

Unit	µg/l
Assigned value ± U (k=2)	2.15 ± 0.103
Criterion	0.301 (14 %)
Minimum - Maximum	1.69 - 2.6
Control test value ± U (k=2)	2.25 ± 0.0697

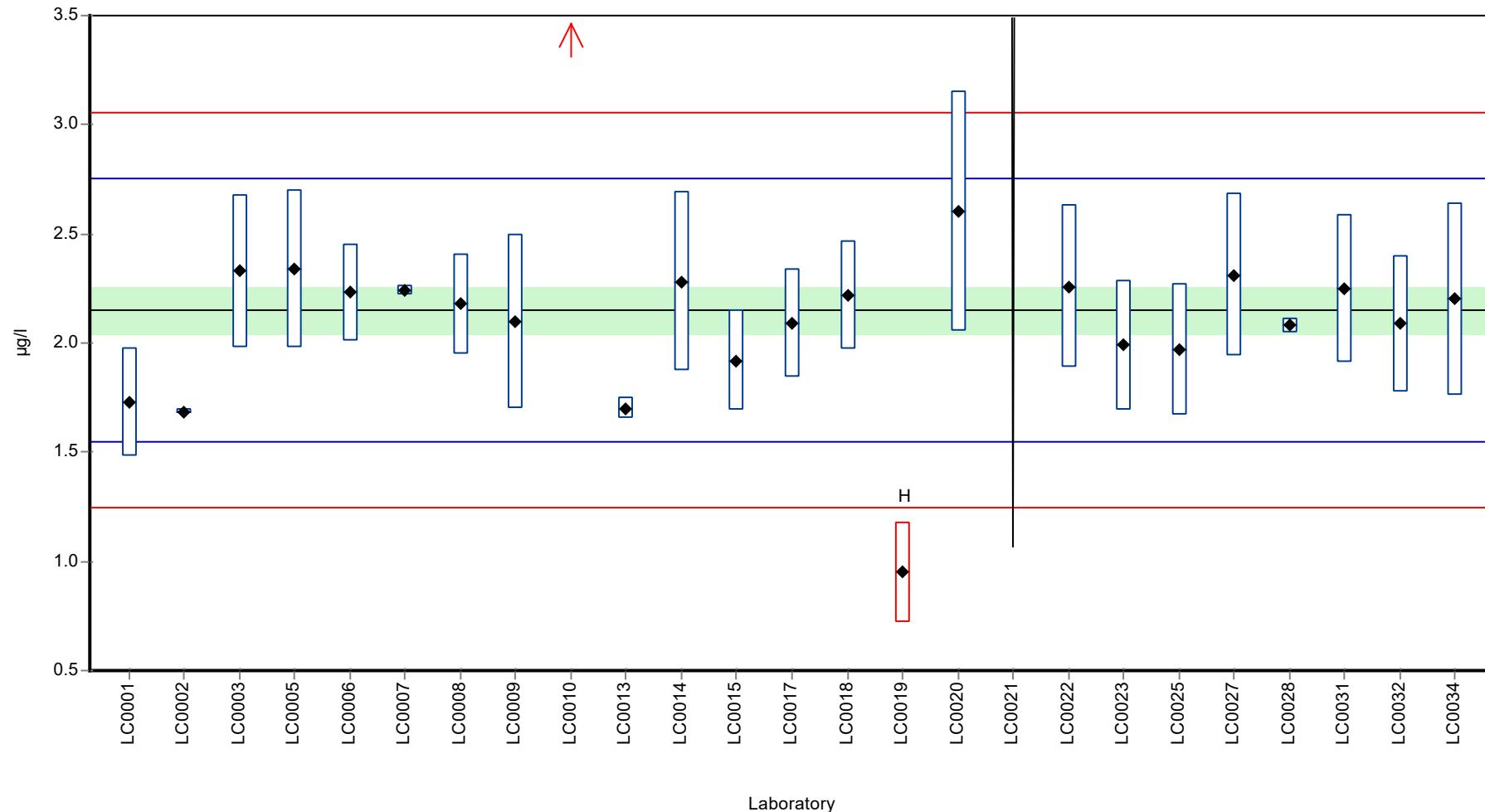
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.73	0.248	80.4	-1.4	
LC0002	1.685	0.01	78.3	-1.55	
LC0003	2.33	0.35	108	0.59	
LC0004	-	-	-	-	
LC0005	2.34	0.36	109	0.63	
LC0006	2.23	0.223	104	0.26	
LC0007	2.24	0.023	104	0.29	
LC0008	2.18	0.23	101	0.1	
LC0009	2.1	0.4	97.6	-0.17	
LC0010	5.89	0.04	274	12.4	H
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	1.7	0.05	79	-1.5	
LC0014	2.28	0.41	106	0.43	
LC0015	1.92	0.2304	89.2	-0.77	
LC0016	-	-	-	-	
LC0017	2.09	0.25	97.1	-0.2	
LC0018	2.22	0.25	103	0.23	
LC0019	0.951	0.23	44.2	-3.99	H
LC0020	2.6	0.55	121	1.49	
LC0021	< 10 (LOQ)	-	-	-	
LC0022	2.26	0.37	105	0.36	
LC0023	1.99	0.3	92.5	-0.54	
LC0024	-	-	-	-	
LC0025	1.9685	0.3	91.5	-0.61	
LC0026	-	-	-	-	
LC0027	2.3117	0.373	107	0.53	
LC0028	2.08	0.033	96.7	-0.24	
LC0029	-	-	-	-	
LC0030	-	-	-	-	
LC0031	2.25	0.34	105	0.33	
LC0032	2.09	0.313	97.1	-0.2	
LC0033	-	-	-	-	
LC0034	2.2	0.44	102	0.16	

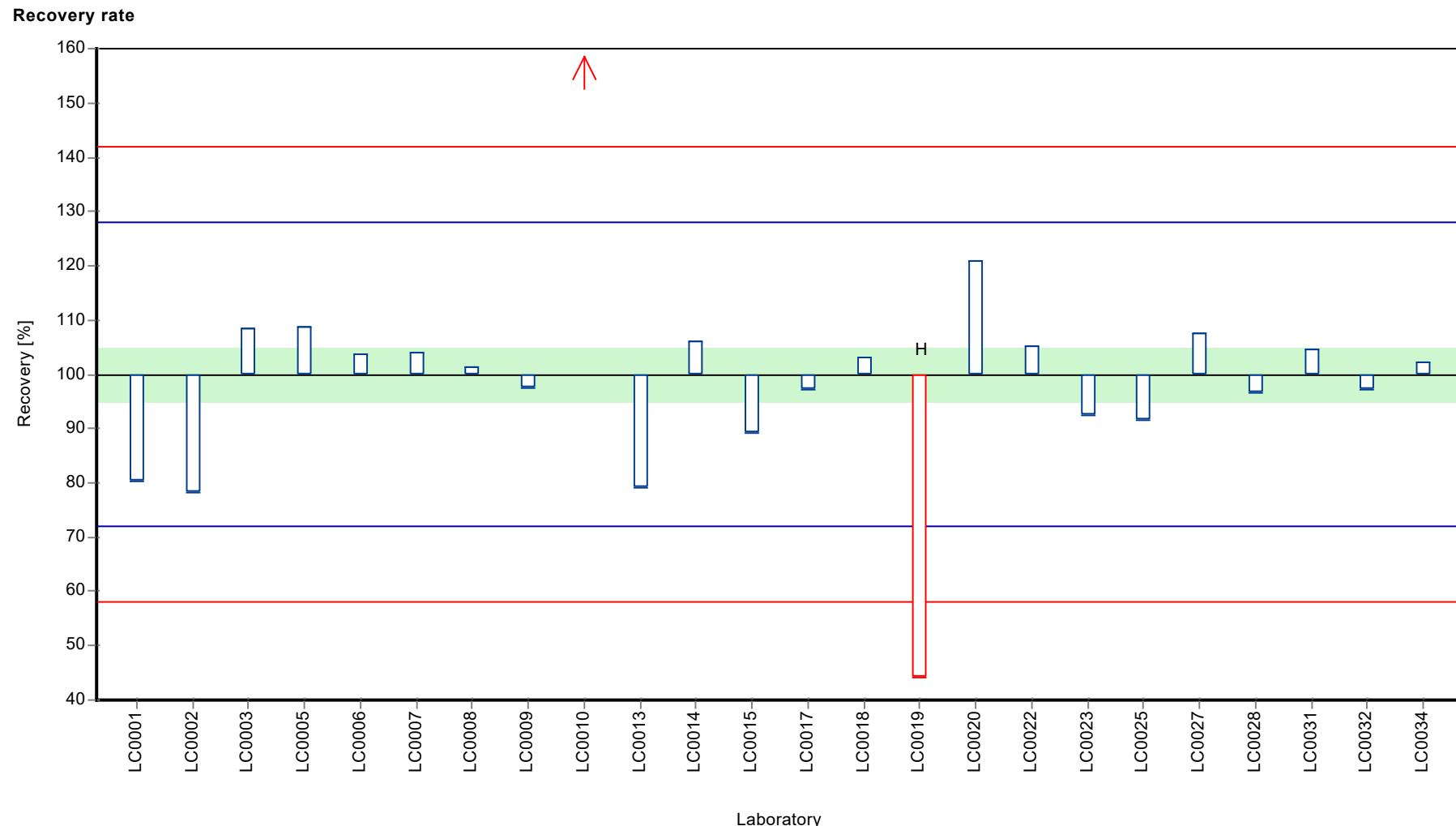
**Characteristics of parameter**

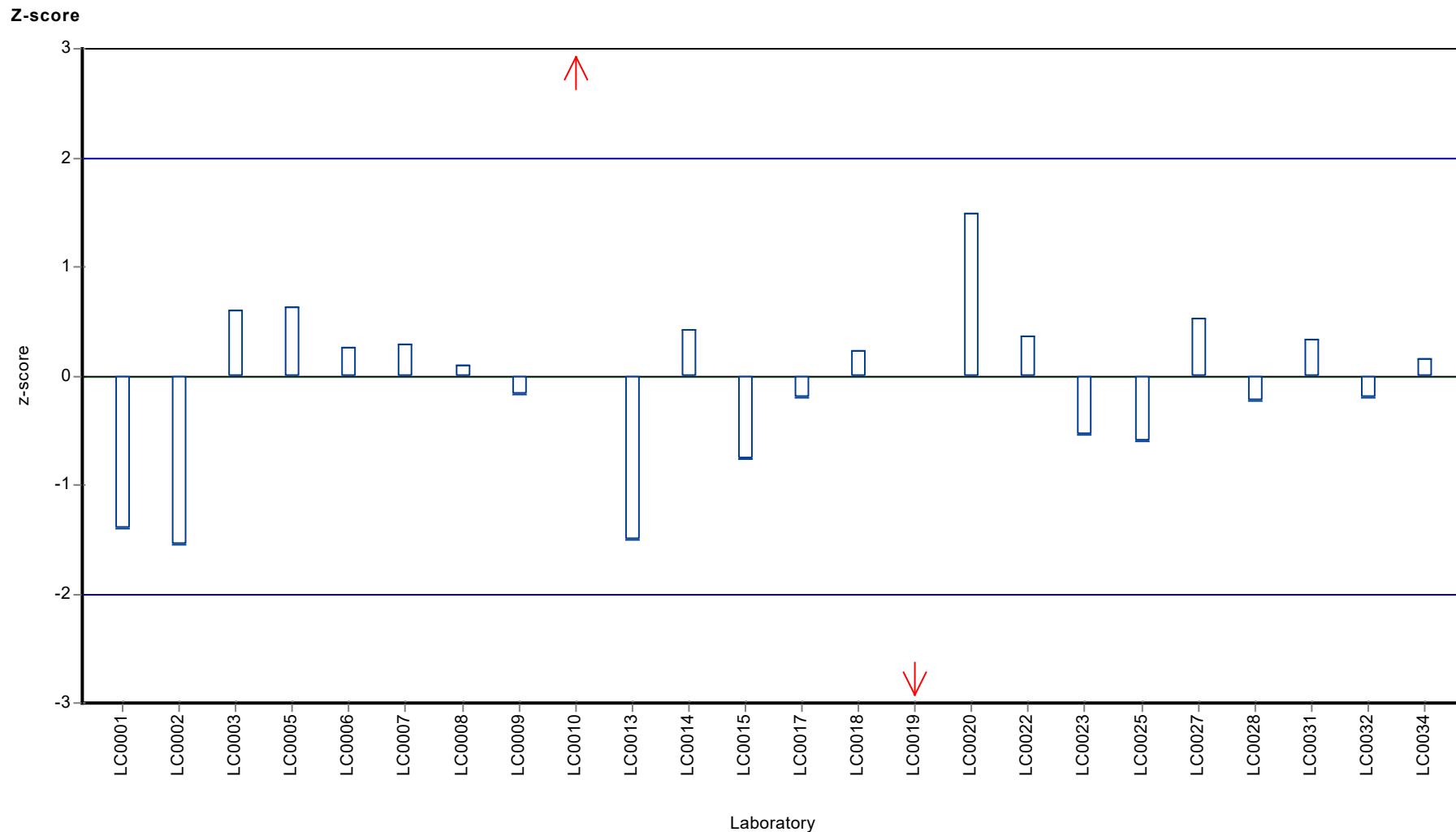
	all results	without outliers	Unit
Mean ± CI (99%)	2.23 ± 0.516	2.13 ± 0.144	µg/l
Minimum	0.951	1.69	µg/l
Maximum	5.89	2.6	µg/l
Standard deviation	0.843	0.226	µg/l
rel. standard deviation	37.7	10.6	%
n	24	22	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 A

#### Nickel

Unit	µg/l
Assigned value ± U (k=2)	2.21 ± 0.0769
Criterion	0.265 (12 %)
Minimum - Maximum	1.8 - 2.6
Control test value ± U (k=2)	2.32 ± 0.149

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	2.174	0.053	98.4	-0.14	
LC0003	1.44	0.1	65.2	-2.9	H
LC0004	-	-	-	-	
LC0005	2.29	0.18	104	0.3	
LC0006	2.1	0.21	95	-0.41	
LC0007	2.6	0.13	118	1.47	
LC0008	2.15	0.39	97.3	-0.23	
LC0009	2.1	0.4	95	-0.41	
LC0010	< 7.63 (LOQ)	-	-	-	
LC0011	-	-	-	-	
LC0012	< 5 (LOQ)	-	-	-	
LC0013	2.4	0.2	109	0.72	
LC0014	2.38	0.43	108	0.64	
LC0015	2.3	0.23	104	0.34	
LC0016	-	-	-	-	
LC0017	2.13	0.11	96.4	-0.3	
LC0018	7.39	1	334	19.5	H
LC0019	2.221	0.24	100	0.04	
LC0020	< 5 (LOQ)	-	-	-	
LC0021	2.84	0.07	129	2.38	H
LC0022	-	-	-	-	
LC0023	2.23	0.33	101	0.08	
LC0024	-	-	-	-	
LC0025	2.115	0.32	95.7	-0.36	
LC0026	1.8	0.3	81.4	-1.55	
LC0027	-	-	-	-	
LC0028	2.22	0.047	100	0.04	
LC0029	1.44	0.11	65.2	-2.9	H
LC0030	2.95	0.121	133	2.79	H
LC0031	2.13	0.15	96.4	-0.3	
LC0032	2.24	0.337	101	0.11	
LC0033	1.6	0.032	72.4	-2.3	H
LC0034	2.2	0.44	99.5	-0.04	

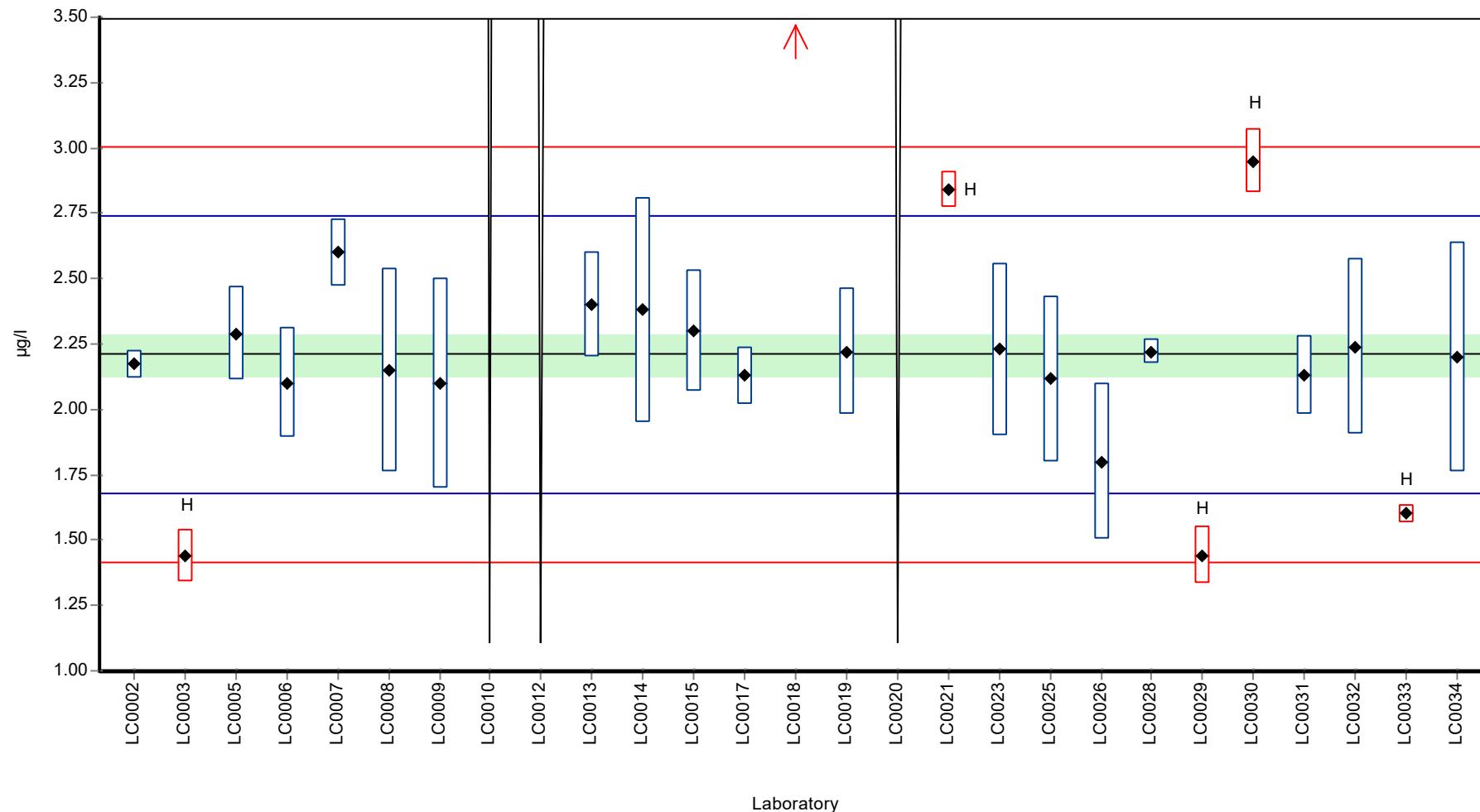
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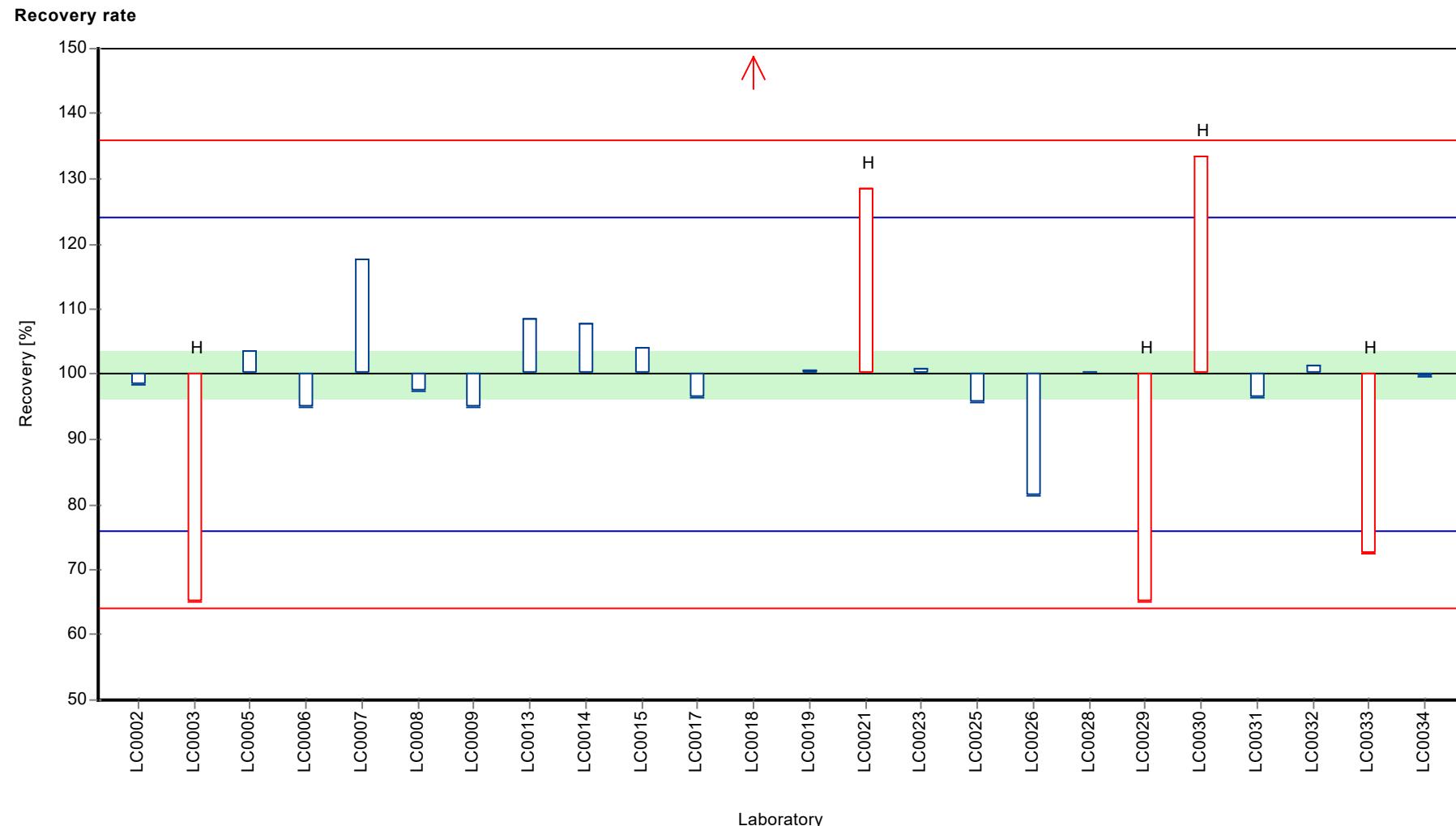
**Characteristics of parameter**

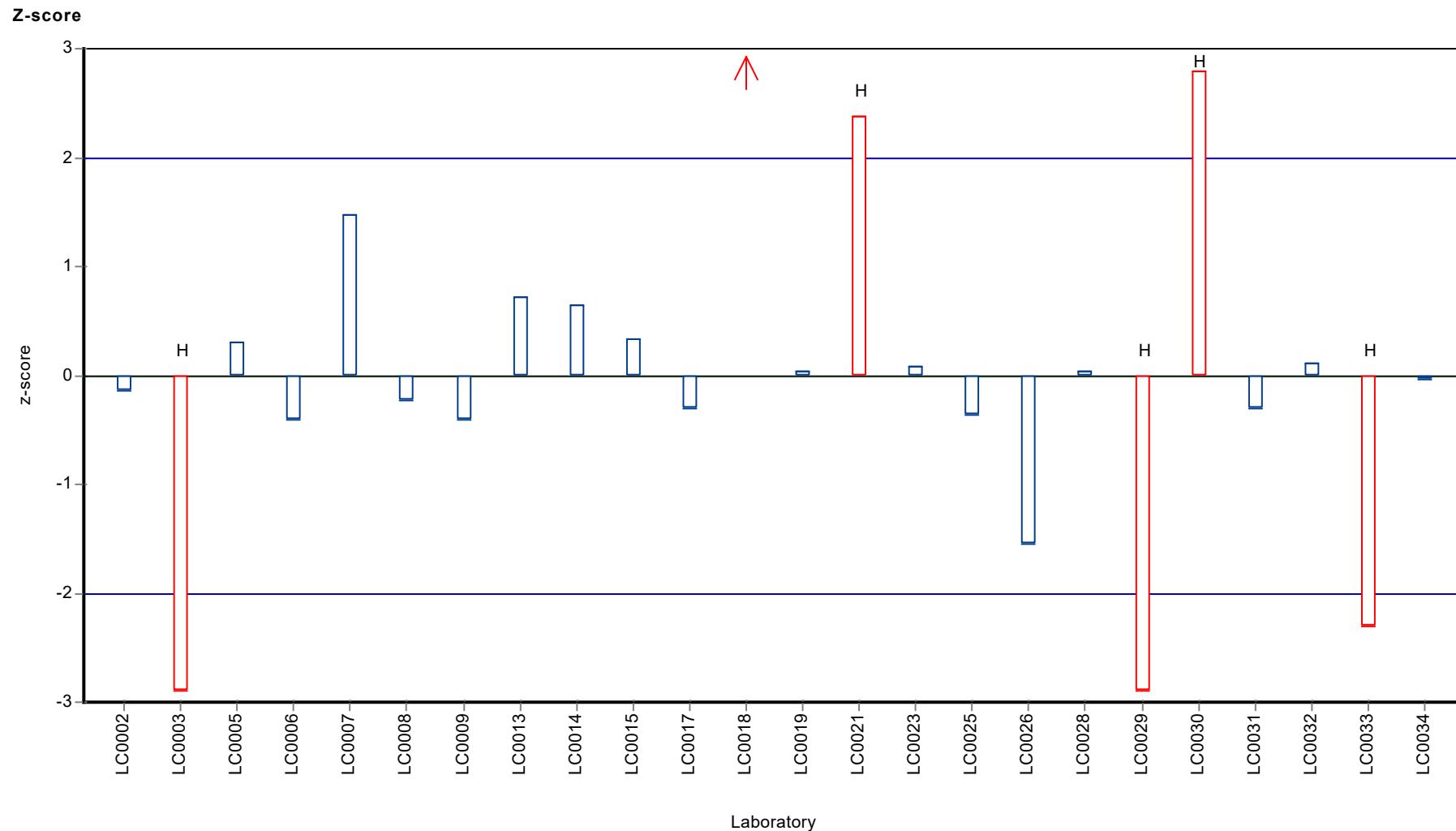
	all results	without outliers	Unit
Mean ± CI (99%)	$2.39 \pm 0.687$	$2.21 \pm 0.115$	µg/l
Minimum	1.44	1.8	µg/l
Maximum	7.39	2.6	µg/l
Standard deviation	1.12	0.163	µg/l
rel. standard deviation	46.9	7.38	%
n	24	18	-

### Graphical presentation of results

#### Results







## Parameter oriented report

### M150 B

#### Nickel

Unit	µg/l
Assigned value ± U (k=2)	22.4 ± 0.703
Criterion	2.68 (12 %)
Minimum - Maximum	18.7 - 26.7
Control test value ± U (k=2)	22 ± 1.48

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	22	2.17	98.4	-0.13	
LC0002	21.412	0.518	95.8	-0.35	
LC0003	21.3	1.51	95.3	-0.4	
LC0004	-	-	-	-	
LC0005	22.7	1.7	102	0.13	
LC0006	22.1	2.21	98.8	-0.1	
LC0007	23.8	0.77	106	0.54	
LC0008	22.4	4.05	100	0.02	
LC0009	21.3	4.3	95.3	-0.4	
LC0010	24.5	0.6	110	0.8	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	23.8	0.4	106	0.54	
LC0014	23.4	4.21	105	0.39	
LC0015	22.2	2.22	99.3	-0.06	
LC0016	-	-	-	-	
LC0017	21.6	1.08	96.6	-0.28	
LC0018	26.66	2.5	119	1.6	
LC0019	22.331	2.45	99.9	-0.01	
LC0020	22	2	98.4	-0.13	
LC0021	24.8	0.22	111	0.91	
LC0022	-	-	-	-	
LC0023	20.2	3.03	90.3	-0.81	
LC0024	-	-	-	-	
LC0025	18.7	2.81	83.6	-1.36	
LC0026	20	2.4	89.4	-0.88	
LC0027	-	-	-	-	
LC0028	22.8	0.24	102	0.16	
LC0029	20.45	1.51	91.5	-0.71	
LC0030	26.339	1.061	118	1.48	
LC0031	21.1	1.5	94.4	-0.47	
LC0032	23.1	3.47	103	0.28	
LC0033	20.7	0.414	92.6	-0.62	
LC0034	22	4.4	98.4	-0.13	

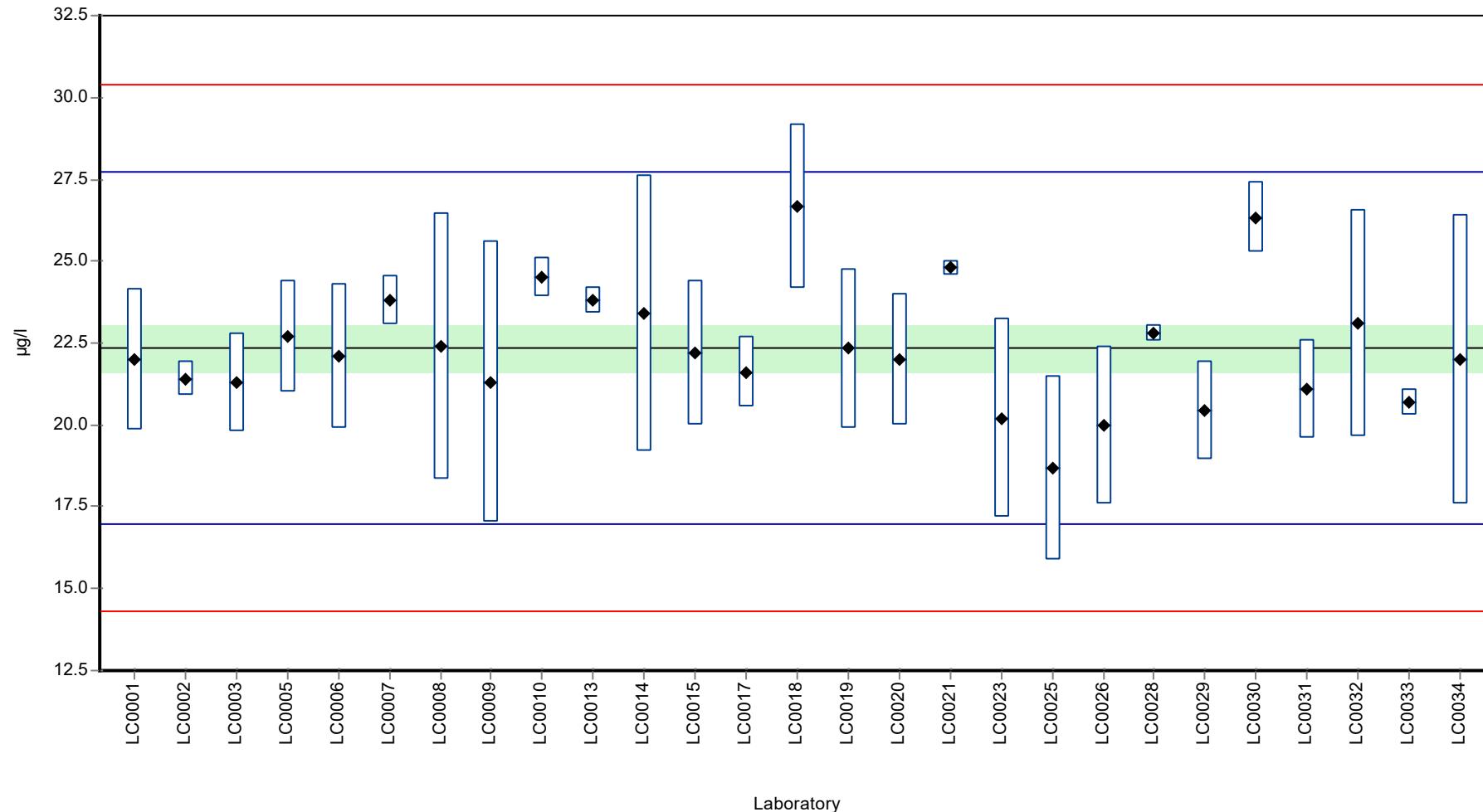
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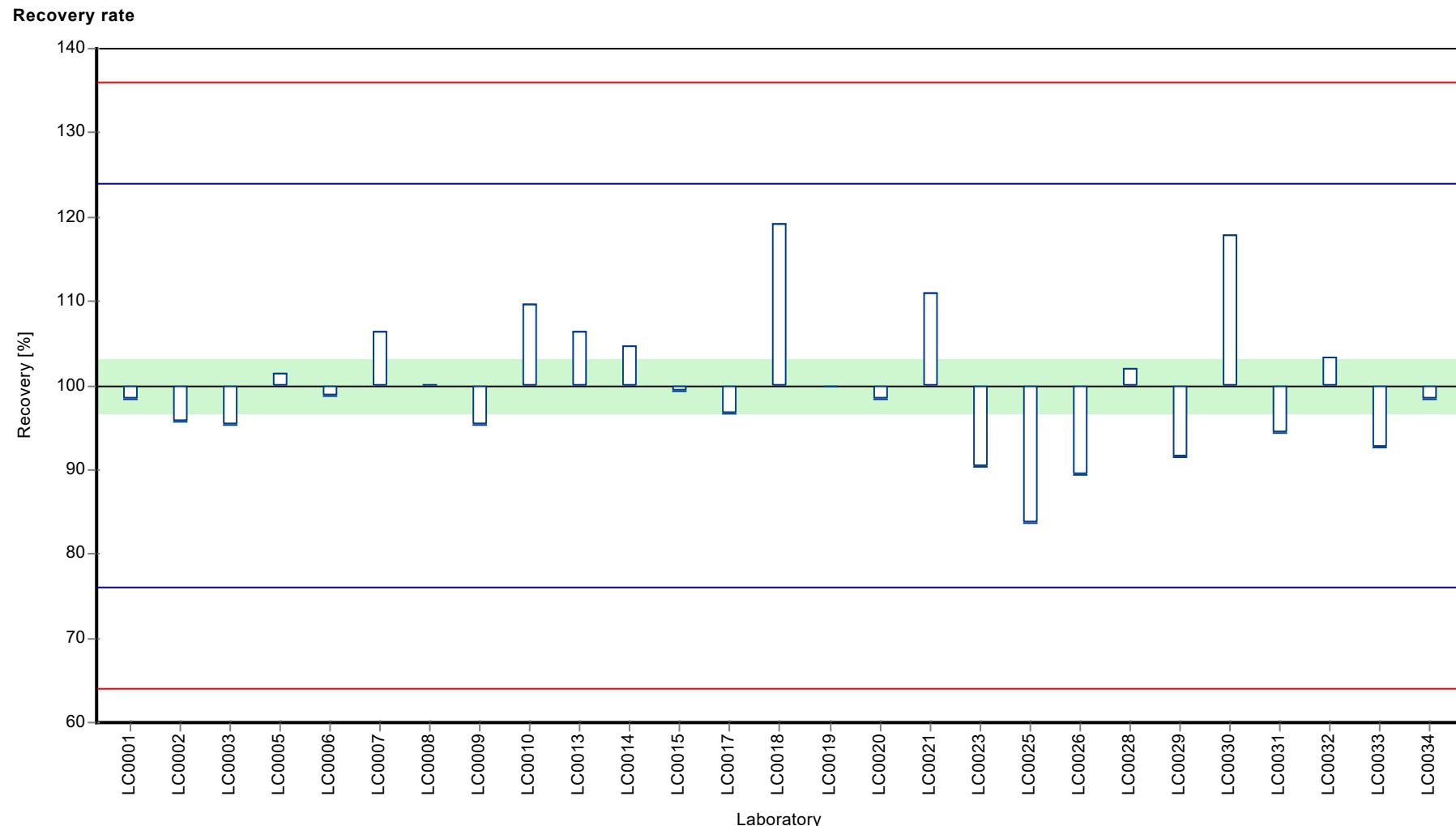
**Characteristics of parameter**

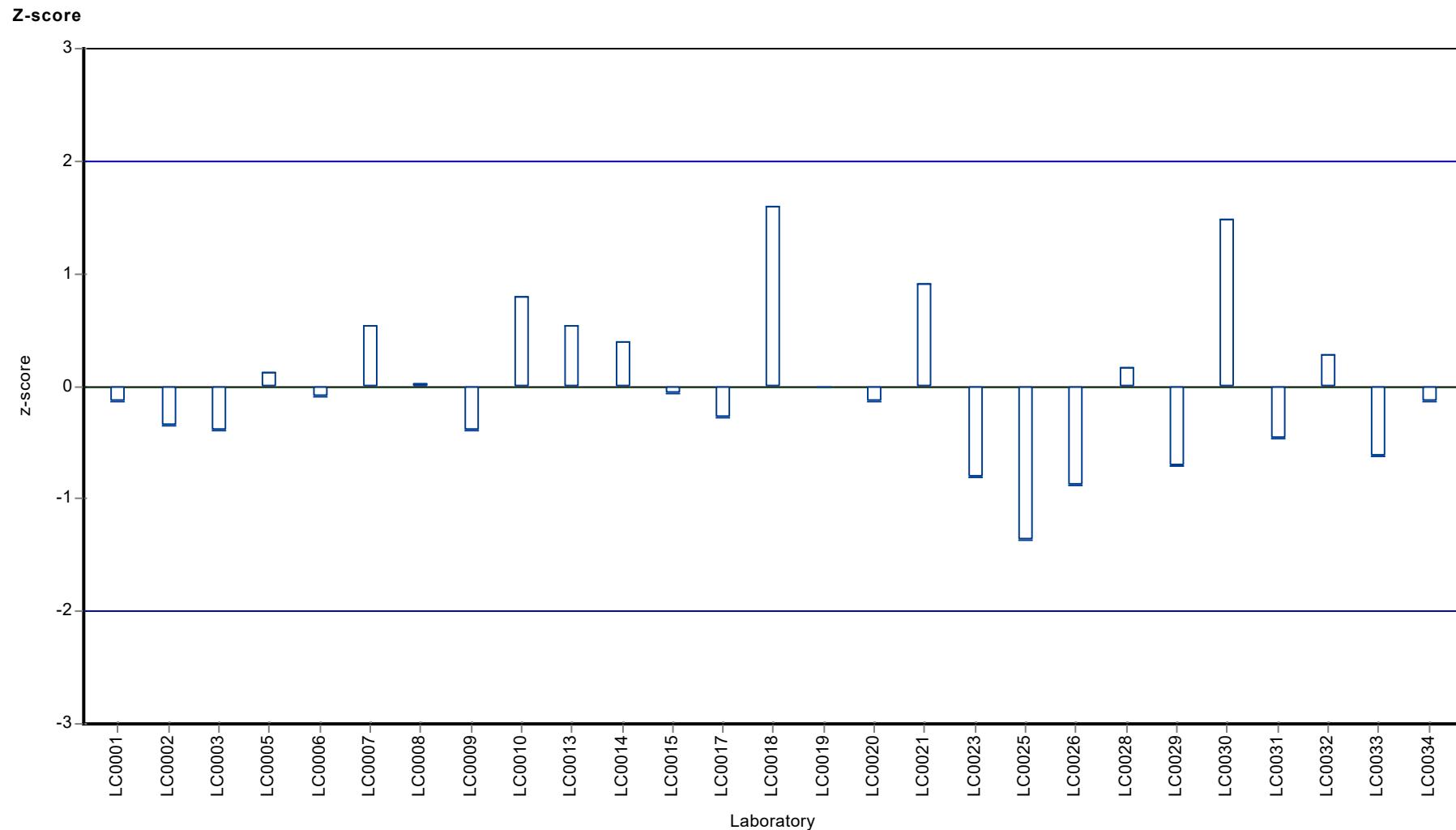
	all results	without outliers	Unit
Mean ± CI (99%)	22.4 ± 1.05	22.4 ± 1.05	µg/l
Minimum	18.7	18.7	µg/l
Maximum	26.7	26.7	µg/l
Standard deviation	1.83	1.83	µg/l
rel. standard deviation	8.17	8.17	%
n	27	27	-

### Graphical presentation of results

#### Results







## Parameter oriented report

### M150 A

#### Selenium

Unit	$\mu\text{g/l}$
Assigned value $\pm U$ ( $k=2$ )	$1.04 \pm 0.0472$
Criterion	0.125 (12 %)
Minimum - Maximum	0.9 - 1.32
Control test value $\pm U$ ( $k=2$ )	$1.06 \pm 0.168$

Labcode	Result	$\pm U$	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.968	0.05	93.2	-0.56	
LC0003	1.02	0.15	98.3	-0.15	
LC0004	-	-	-	-	
LC0005	1.03	0.12	99.2	-0.07	
LC0006	1.03	0.155	99.2	-0.07	
LC0007	1.32	0.23	127	2.26	
LC0008	1.05	0.19	101	0.1	
LC0009	1.05	0.2	101	0.1	
LC0010	7.67	0.1	739	53.2	H
LC0011	-	-	-	-	
LC0012	0.9	0.44	86.7	-1.11	
LC0013	1.2	0.2	116	1.3	
LC0014	1.08	0.19	104	0.34	
LC0015	1.1	0.165	106	0.5	
LC0016	-	-	-	-	
LC0017	0.9	0.1	86.7	-1.11	
LC0018	0.914	0.2	88	-1	
LC0019	0.958	0.11	92.3	-0.64	
LC0020	< 5 (LOQ)	-	-	-	
LC0021	4.21	0.21	406	25.5	H
LC0022	1.12	0.41	108	0.66	
LC0023	0.933	0.14	89.9	-0.84	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	1.02	0.006	98.3	-0.15	
LC0029	-	-	-	-	
LC0030	1.388	0.032	134	2.81	H
LC0031	-	-	-	-	
LC0032	1.01	0.101	97.3	-0.23	
LC0033	1.16	0.0232	112	0.98	
LC0034	1	0.2	96.3	-0.31	

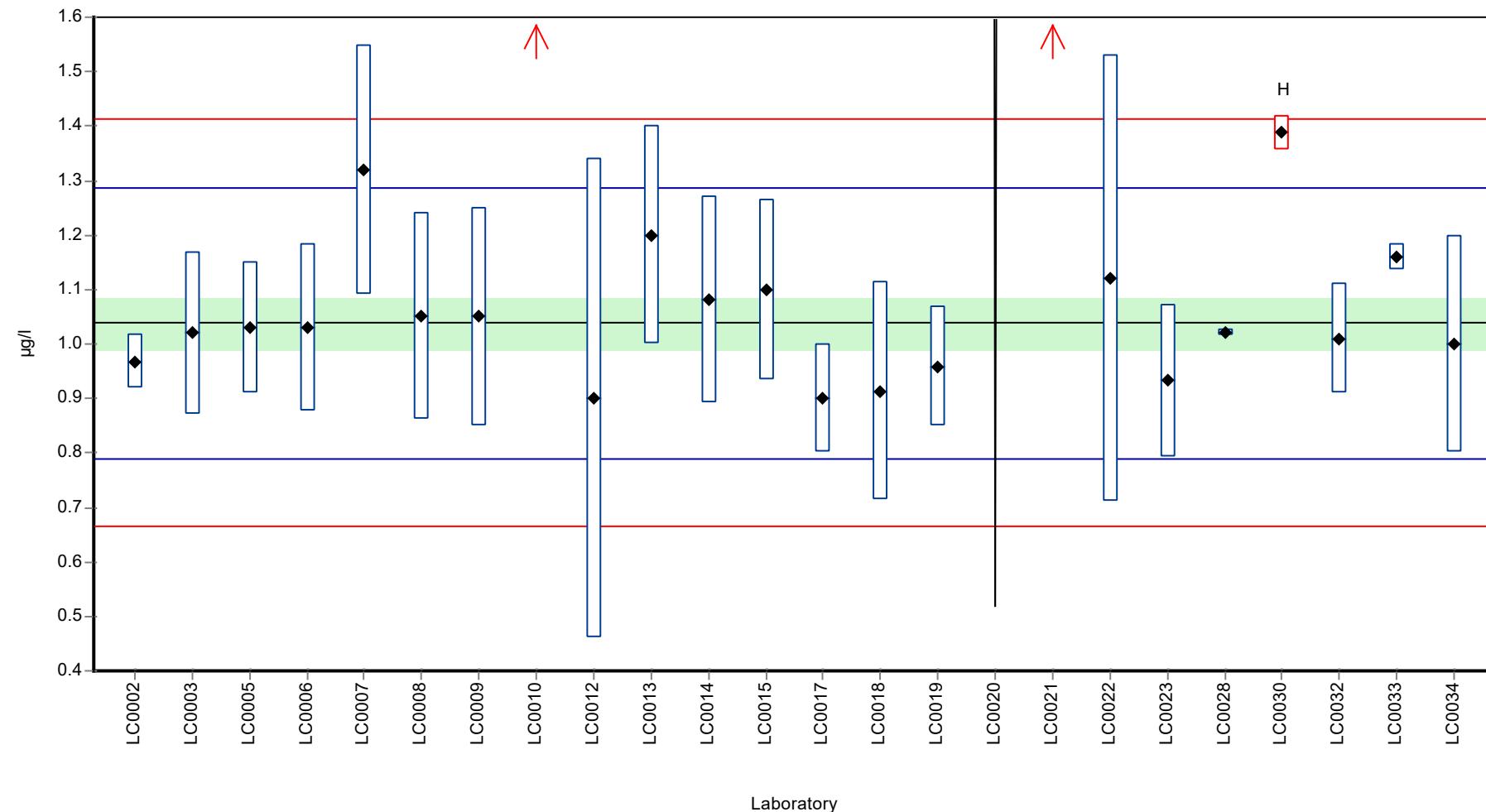
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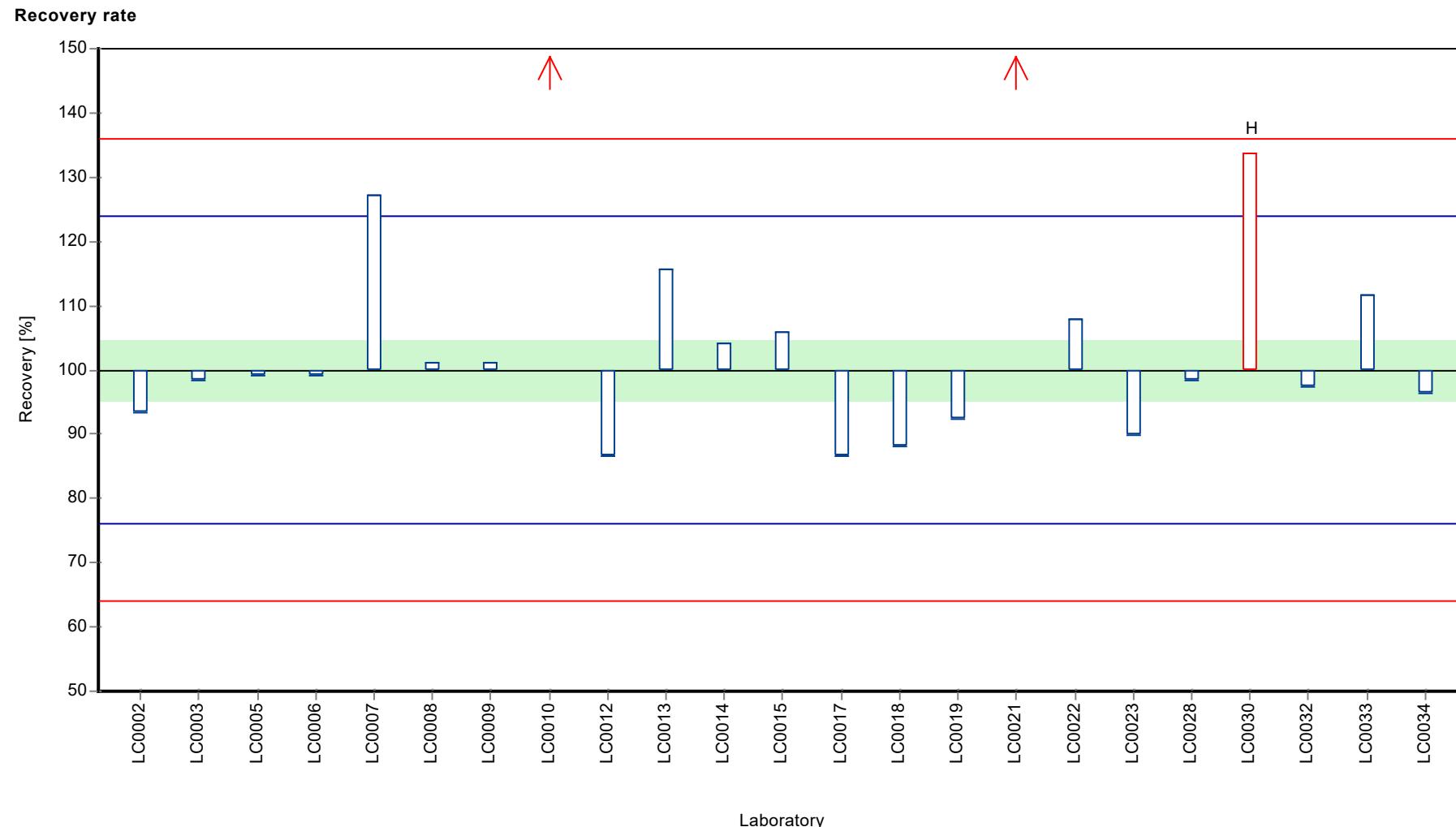
**Characteristics of parameter**

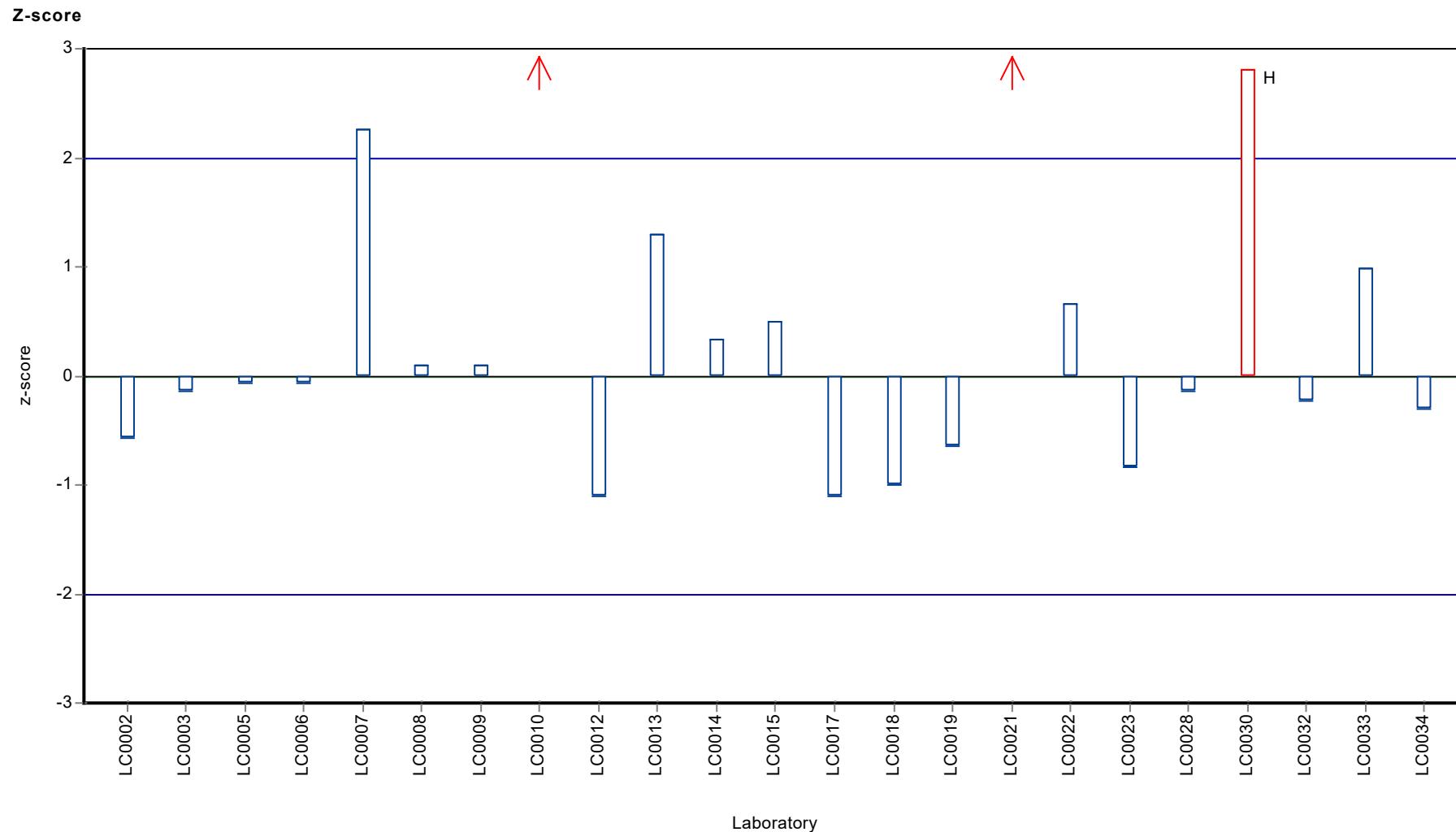
	all results	without outliers	Unit
Mean ± CI (99%)	1.48 ± 0.942	1.04 ± 0.0709	µg/l
Minimum	0.9	0.9	µg/l
Maximum	7.67	1.32	µg/l
Standard deviation	1.51	0.106	µg/l
rel. standard deviation	102	10.2	%
n	23	20	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 B

#### Selenium

Unit	µg/l
Assigned value ± U (k=2)	3.45 ± 0.179
Criterion	0.414 (12 %)
Minimum - Maximum	2.4 - 4.1
Control test value ± U (k=2)	3.56 ± 0.558

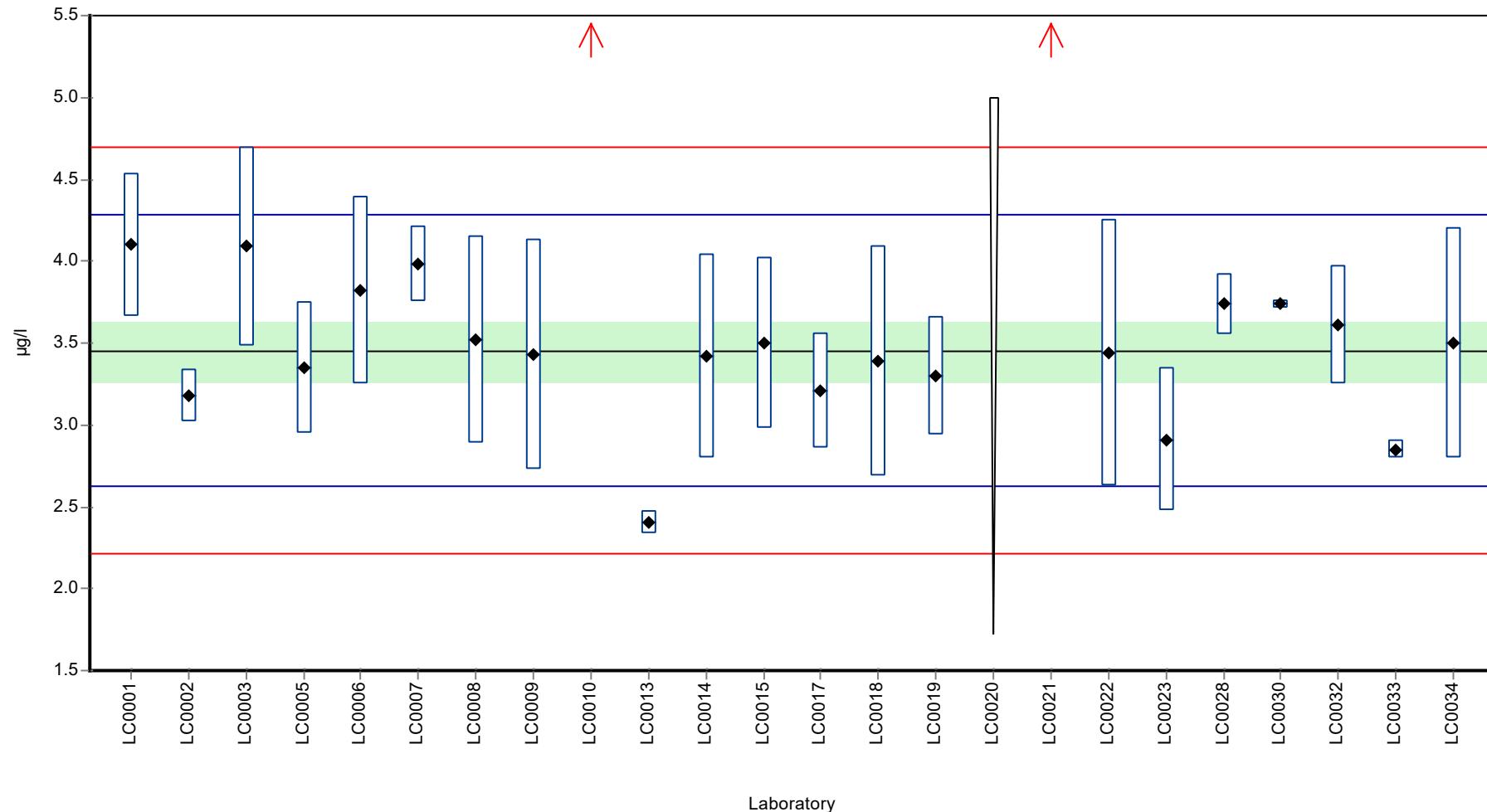
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	4.1	0.44	119	1.57	
LC0002	3.179	0.164	92.1	-0.66	
LC0003	4.09	0.61	119	1.54	
LC0004	-	-	-	-	
LC0005	3.35	0.4	97.1	-0.24	
LC0006	3.82	0.573	111	0.89	
LC0007	3.98	0.23	115	1.28	
LC0008	3.52	0.63	102	0.17	
LC0009	3.43	0.7	99.4	-0.05	
LC0010	8	0.1	232	11	H
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	2.4	0.07	69.5	-2.54	
LC0014	3.42	0.62	99.1	-0.08	
LC0015	3.5	0.525	101	0.12	
LC0016	-	-	-	-	
LC0017	3.21	0.35	93	-0.58	
LC0018	3.39	0.7	98.2	-0.15	
LC0019	3.3	0.36	95.6	-0.37	
LC0020	< 5 (LOQ)	-	-	-	
LC0021	5.59	0.08	162	5.16	H
LC0022	3.44	0.81	99.7	-0.03	
LC0023	2.91	0.44	84.3	-1.31	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	3.74	0.186	108	0.7	
LC0029	-	-	-	-	
LC0030	3.74	0.026	108	0.7	
LC0031	-	-	-	-	
LC0032	3.61	0.361	105	0.38	
LC0033	2.85	0.057	82.6	-1.45	
LC0034	3.5	0.7	101	0.12	

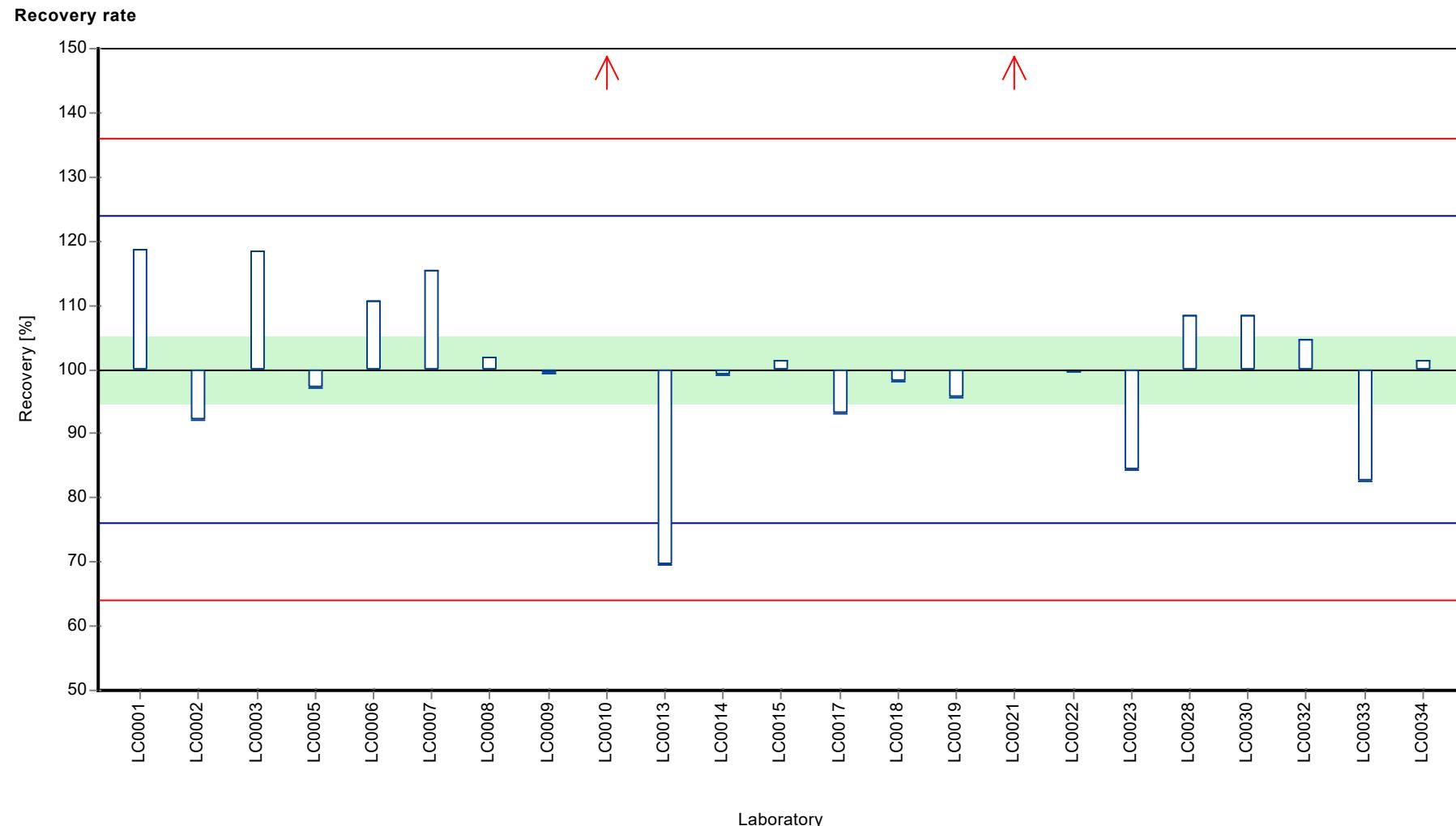
**Characteristics of parameter**

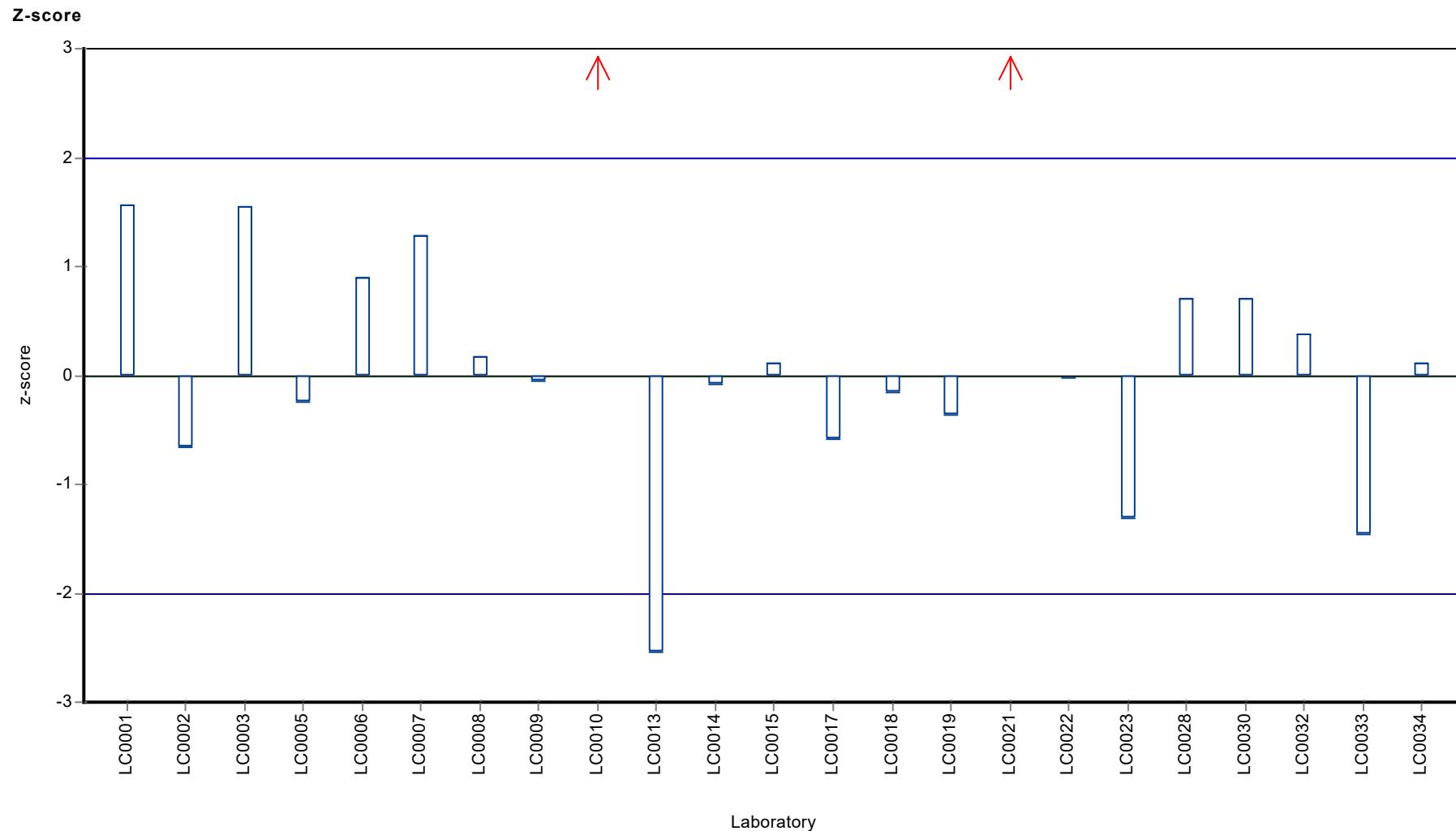
	all results	without outliers	Unit
Mean ± CI (99%)	$3.74 \pm 0.689$	$3.45 \pm 0.269$	µg/l
Minimum	2.4	2.4	µg/l
Maximum	8	4.1	µg/l
Standard deviation	1.1	0.411	µg/l
rel. standard deviation	29.4	11.9	%
n	23	21	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 A

#### Uranium

Unit	$\mu\text{g/l}$
Assigned value $\pm U$ ( $k=2$ )	$0.932 \pm 0.0203$
Criterion	0.0615 (6.6 %)
Minimum - Maximum	0.88 - 1.02
Control test value $\pm U$ ( $k=2$ )	$0.924 \pm 0.163$

Labcode	Result	$\pm U$	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.906	0.023	97.2	-0.43	
LC0003	< 1 (LOQ)	-	-	-	
LC0004	-	-	-	-	
LC0005	0.919	0.1	98.6	-0.22	
LC0006	< 1 (LOQ)	-	-	-	
LC0007	< 1 (LOQ)	-	-	-	
LC0008	0.88	0.1	94.4	-0.85	
LC0009	< 1 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	< 2 (LOQ)	-	-	-	
LC0014	0.956	0.172	103	0.38	
LC0015	1.02	0.051	109	1.42	
LC0016	-	-	-	-	
LC0017	0.881	0.044	94.5	-0.83	
LC0018	0.957	0.1	103	0.4	
LC0019	0.948	0.082	102	0.25	
LC0020	-	-	-	-	
LC0021	0.8	0.02	85.8	-2.15	H
LC0022	-	-	-	-	
LC0023	0.935	0.14	100	0.04	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	0.908	0.005	97.4	-0.4	
LC0029	-	-	-	-	
LC0030	0.931	0.009	99.9	-0.02	
LC0031	0.946	0.066	101	0.22	
LC0032	0.934	0.141	100	0.03	
LC0033	-	-	-	-	
LC0034	< 1 (LOQ)	-	-	-	

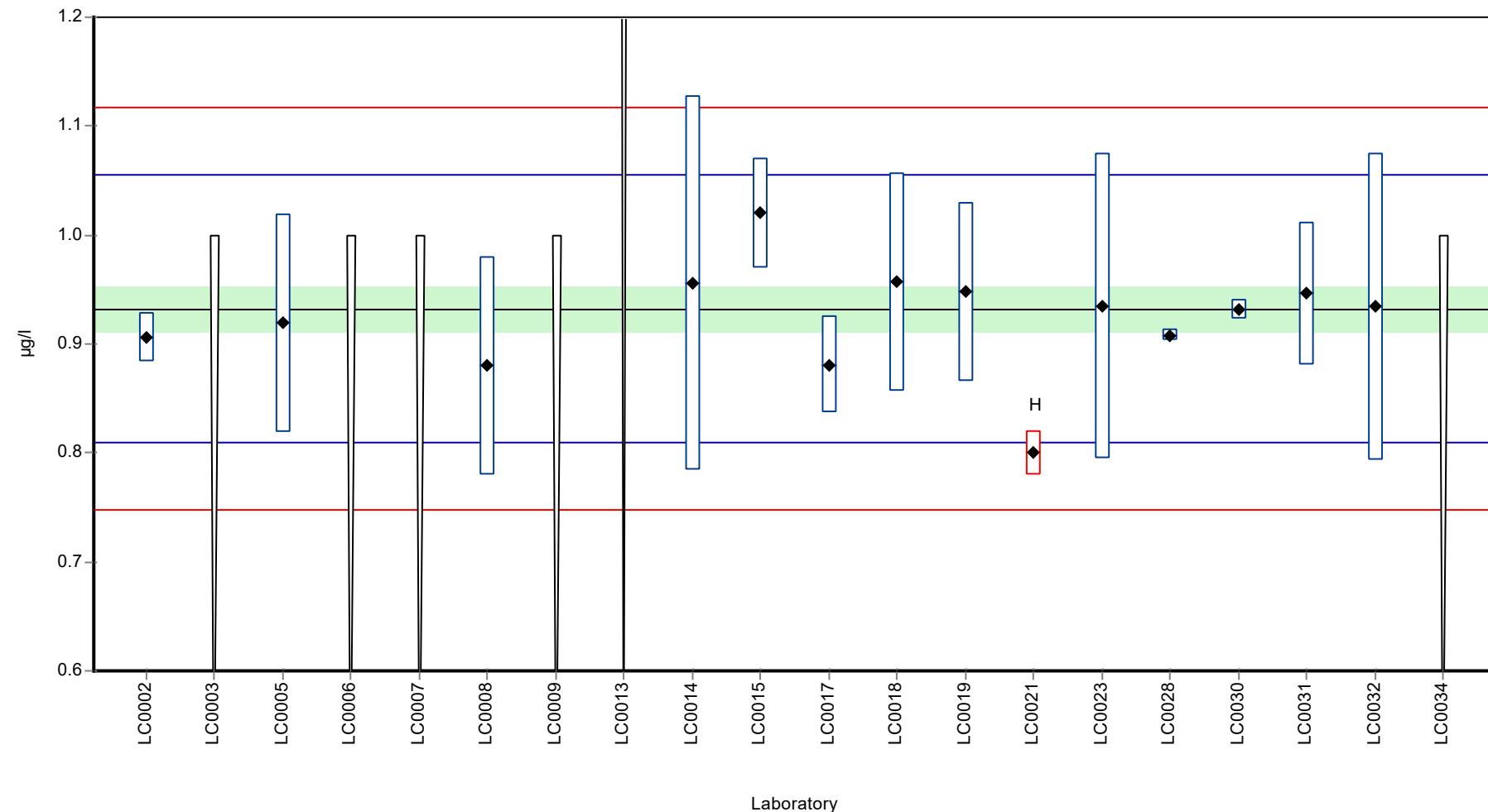
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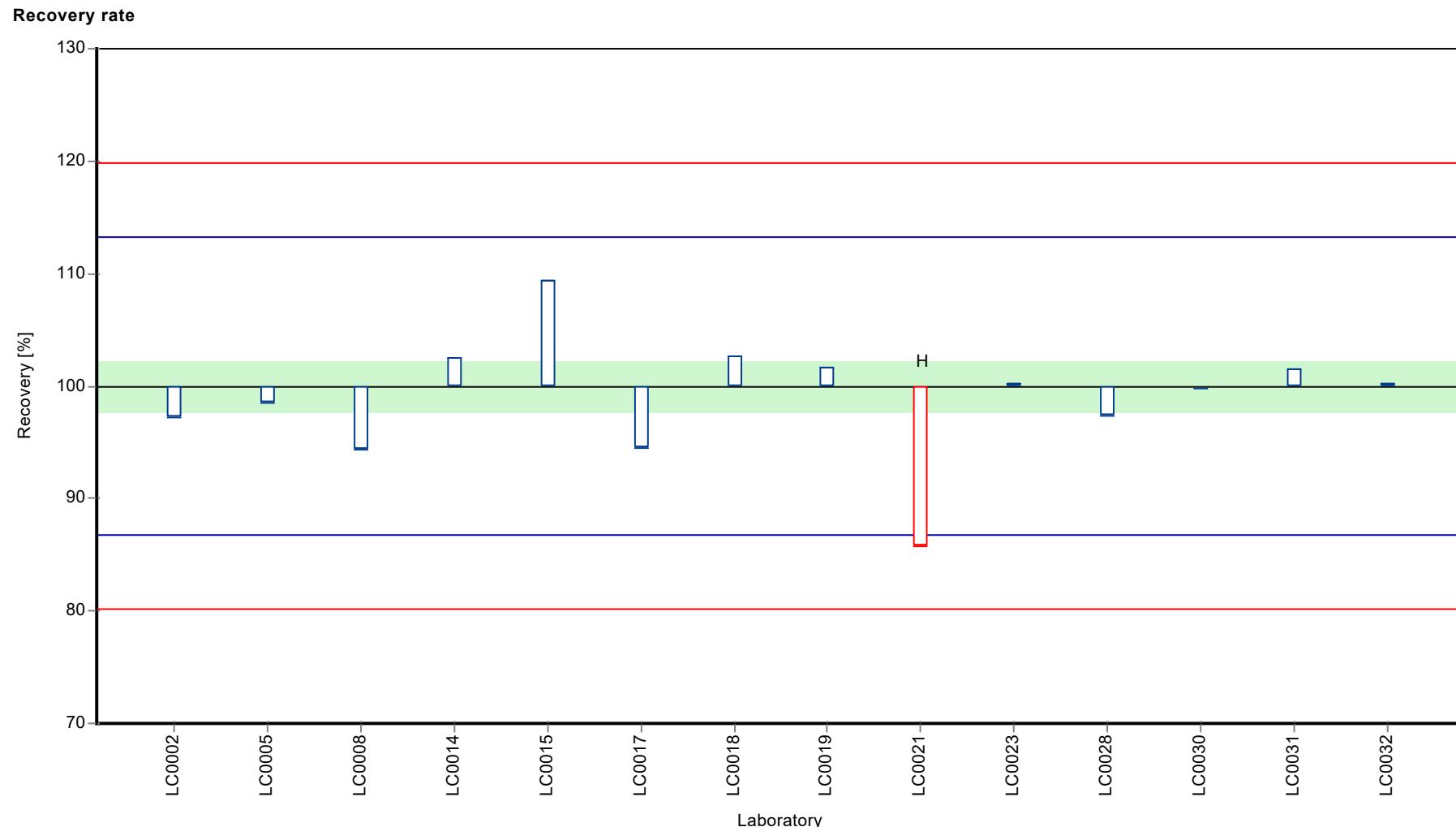
**Characteristics of parameter**

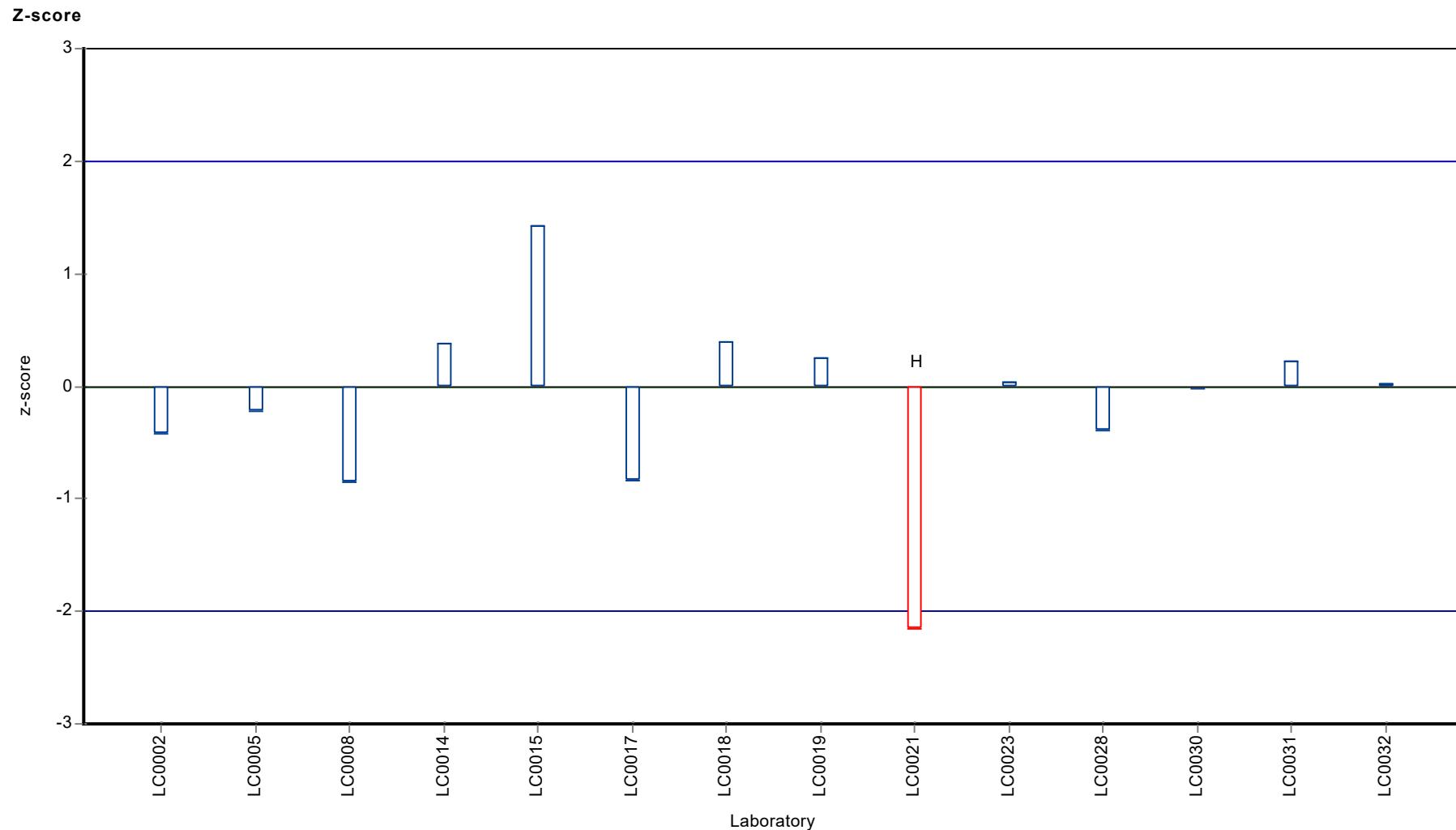
	all results	without outliers	Unit
Mean ± CI (99%)	0.923 ± 0.04	0.932 ± 0.0305	µg/l
Minimum	0.8	0.88	µg/l
Maximum	1.02	1.02	µg/l
Standard deviation	0.0499	0.0367	µg/l
rel. standard deviation	5.41	3.93	%
n	14	13	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 B

#### Uranium

Unit	$\mu\text{g/l}$
Assigned value $\pm U$ ( $k=2$ )	$1.19 \pm 0.0357$
Criterion	0.0785 (6.6 %)
Minimum - Maximum	1.02 - 1.33
Control test value $\pm U$ ( $k=2$ )	$1.2 \pm 0.214$

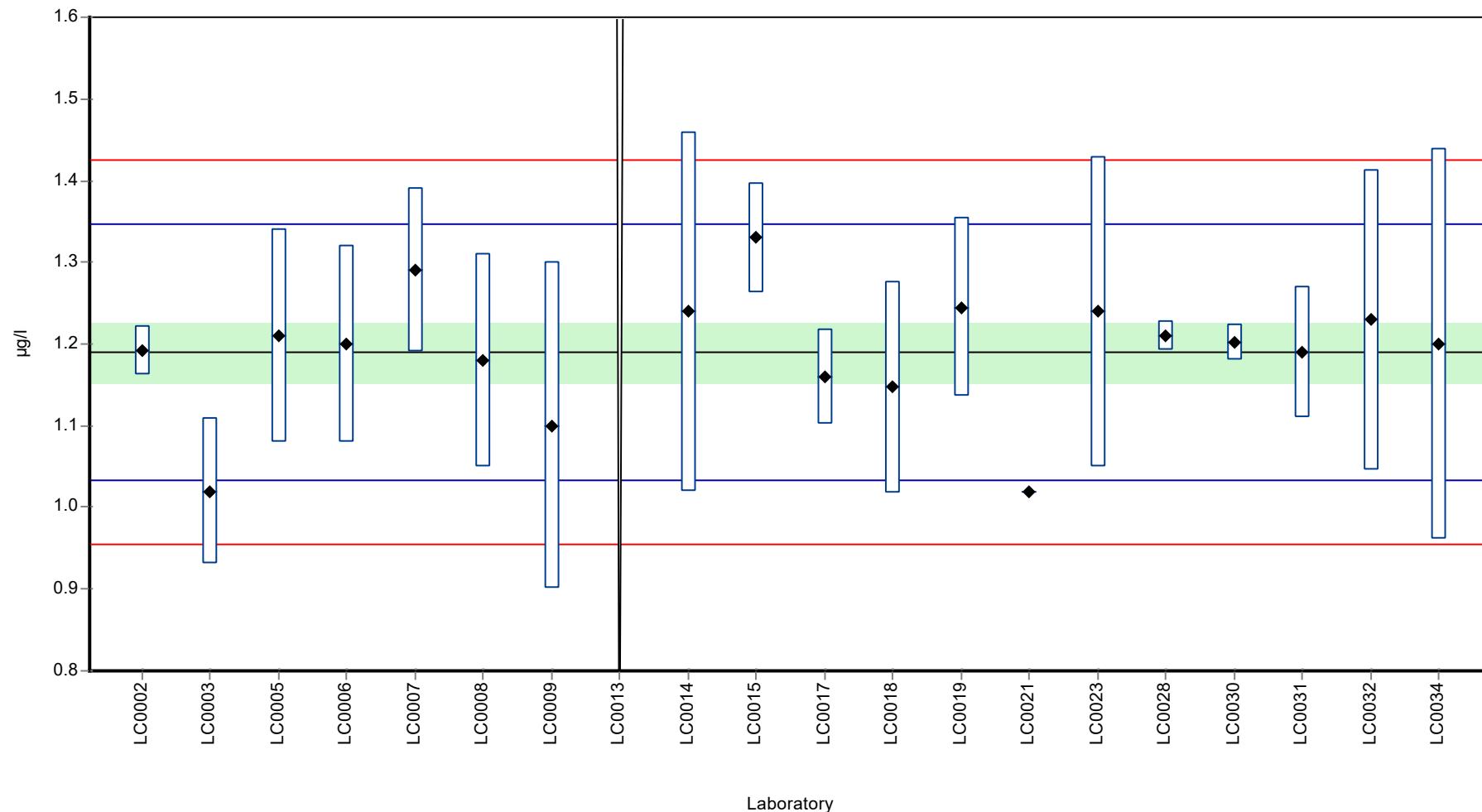
Labcode	Result	$\pm U$	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	1.192	0.03	100	0.03	
LC0003	1.02	0.09	85.7	-2.16	
LC0004	-	-	-	-	
LC0005	1.21	0.13	102	0.26	
LC0006	1.2	0.12	101	0.13	
LC0007	1.29	0.1	108	1.28	
LC0008	1.18	0.13	99.2	-0.13	
LC0009	1.1	0.2	92.5	-1.14	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	< 2 (LOQ)	-	-	-	
LC0014	1.24	0.22	104	0.64	
LC0015	1.33	0.067	112	1.79	
LC0016	-	-	-	-	
LC0017	1.16	0.058	97.5	-0.38	
LC0018	1.1473	0.13	96.4	-0.54	
LC0019	1.245	0.11	105	0.7	
LC0020	-	-	-	-	
LC0021	1.02	0.001	85.7	-2.16	
LC0022	-	-	-	-	
LC0023	1.24	0.19	104	0.64	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	1.21	0.019	102	0.26	
LC0029	-	-	-	-	
LC0030	1.202	0.022	101	0.15	
LC0031	1.19	0.08	100	0.00	
LC0032	1.23	0.184	103	0.51	
LC0033	-	-	-	-	
LC0034	1.2	0.24	101	0.13	

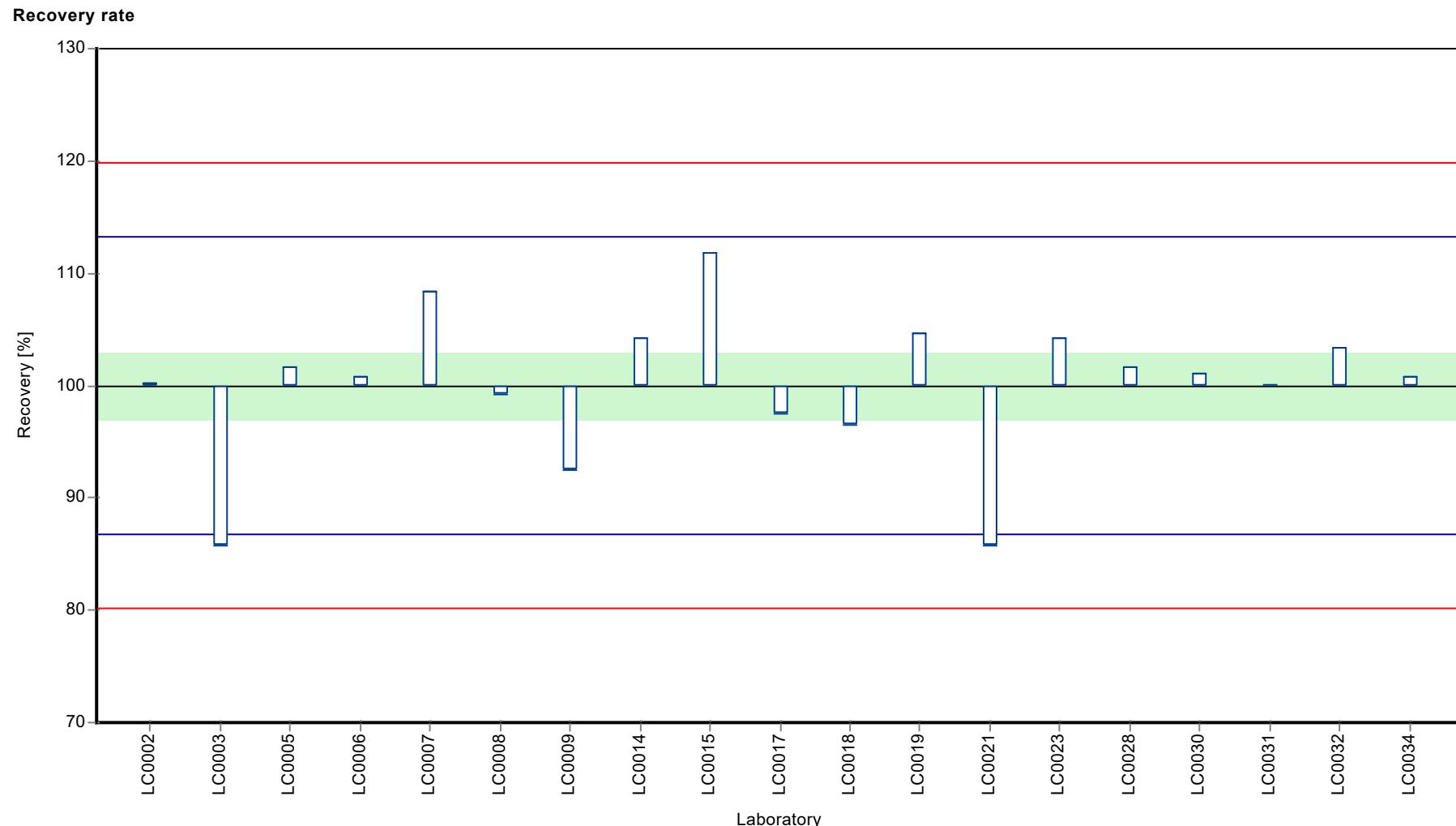
**Characteristics of parameter**

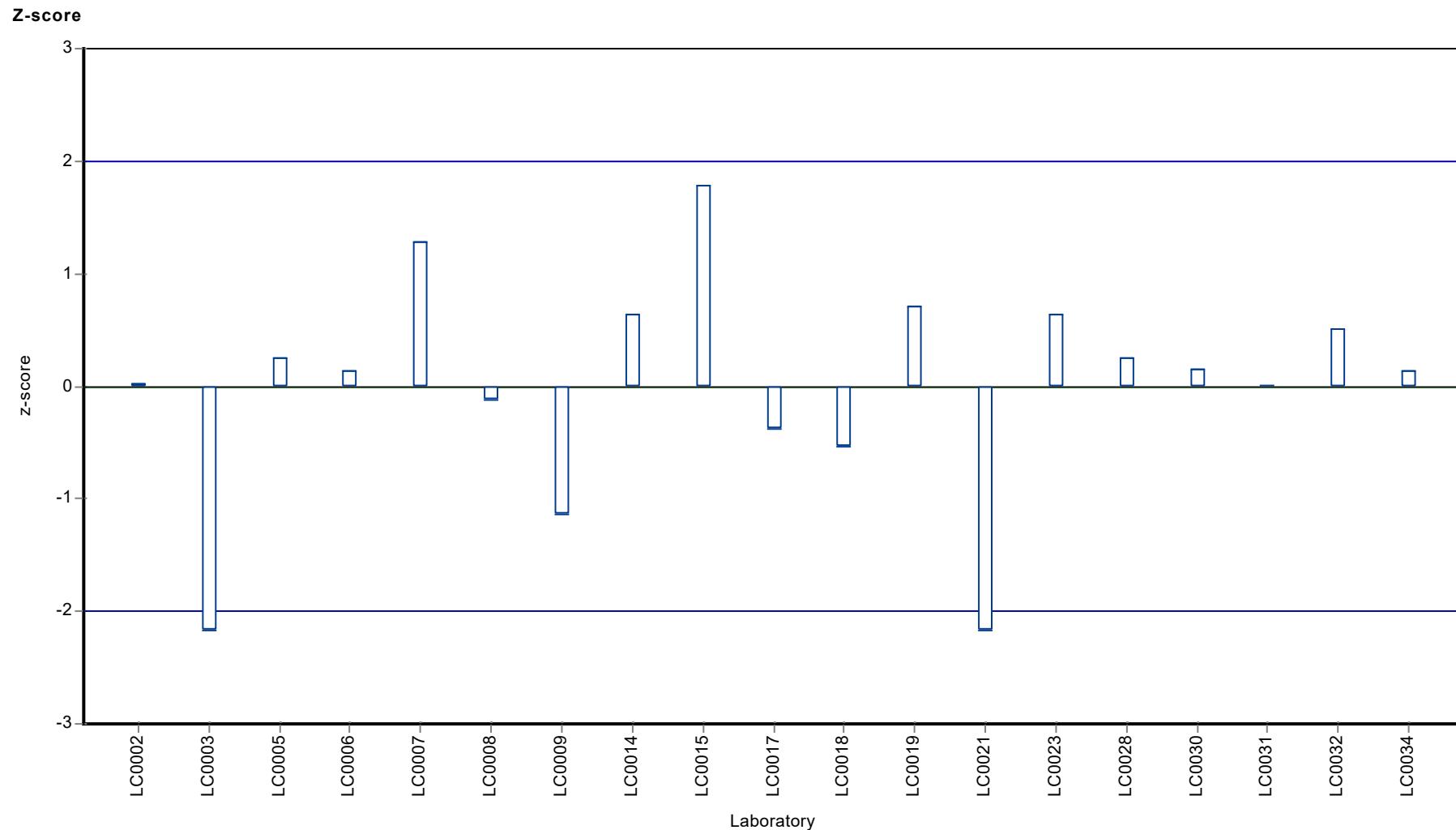
	all results	without outliers	Unit
Mean ± CI (99%)	1.19 ± 0.0536	1.19 ± 0.0536	µg/l
Minimum	1.02	1.02	µg/l
Maximum	1.33	1.33	µg/l
Standard deviation	0.0779	0.0779	µg/l
rel. standard deviation	6.54	6.54	%
n	19	19	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 A

#### Zinc

Unit	µg/l
Assigned value ± U (k=2)	30.5 ± 0.763
Criterion	2.74 (9 %)
Minimum - Maximum	26.3 - 34
Control test value ± U (k=2)	31.1 ± 5.06

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	33.153	0.723	109	0.97	
LC0003	28.1	2.18	92.2	-0.87	
LC0004	-	-	-	-	
LC0005	29.3	1.8	96.1	-0.43	
LC0006	30	3	98.4	-0.18	
LC0007	28.6	0.32	93.8	-0.69	
LC0008	29.3	2.84	96.1	-0.43	
LC0009	30.3	6.1	99.4	-0.07	
LC0010	32.75	0.51	107	0.82	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	31.4	1.5	103	0.33	
LC0014	32	5.76	105	0.55	
LC0015	29	2.9	95.1	-0.54	
LC0016	-	-	-	-	
LC0017	29.4	1.47	96.4	-0.4	
LC0018	31.72	3	104	0.45	
LC0019	30.08	3.07	98.7	-0.15	
LC0020	34	4.1	112	1.28	
LC0021	29.9	0.36	98.1	-0.21	
LC0022	29.8	6.2	97.7	-0.25	
LC0023	26.3	3.95	86.3	-1.53	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	31	10	102	0.19	
LC0027	-	-	-	-	
LC0028	33.4	0.233	110	1.06	
LC0029	-	-	-	-	
LC0030	29.73	0.21	97.5	-0.28	
LC0031	28.1	2	92.2	-0.87	
LC0032	33.1	4.97	109	0.95	
LC0033	31.8	0.636	104	0.48	
LC0034	30	6	98.4	-0.18	

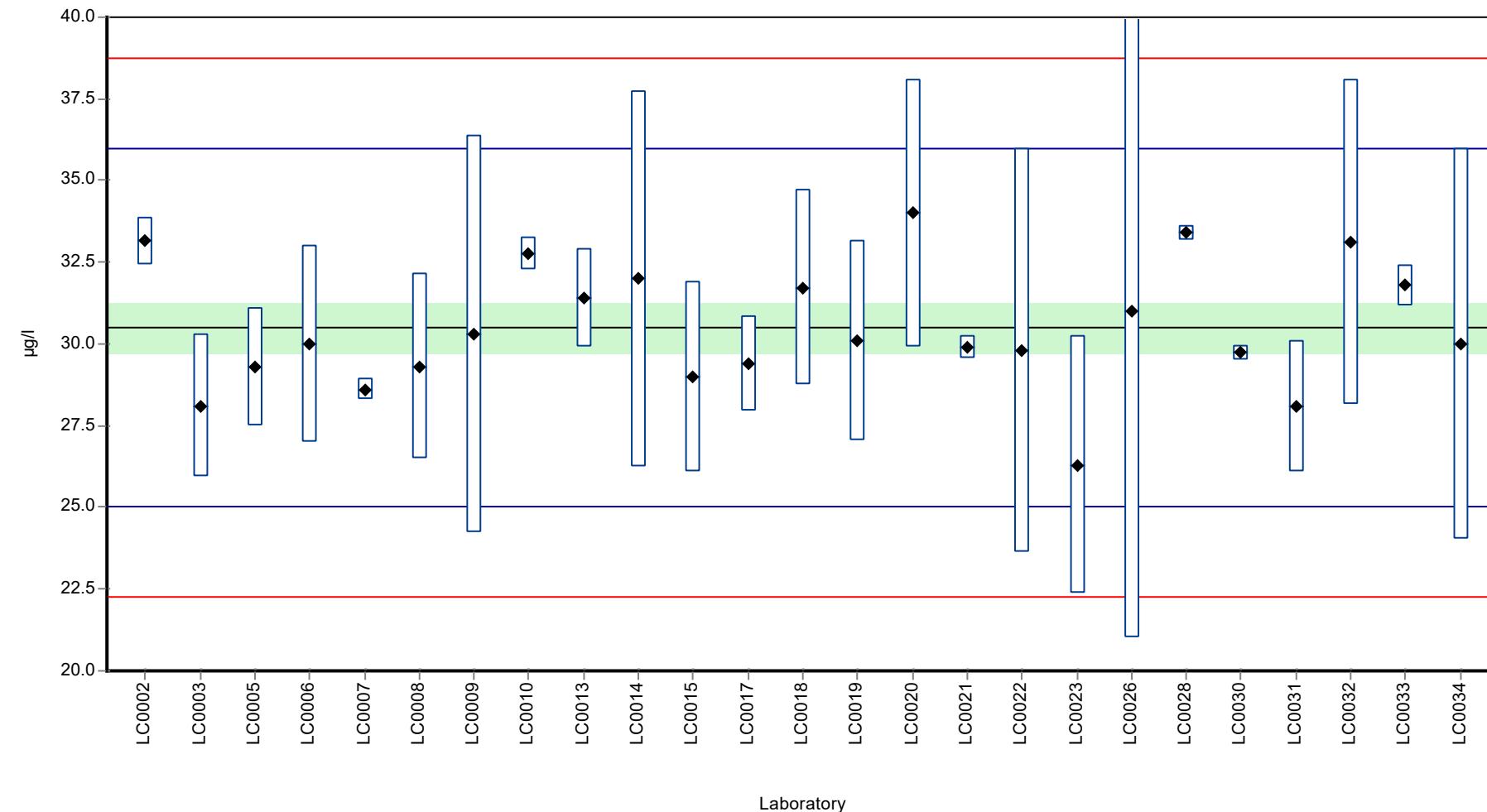
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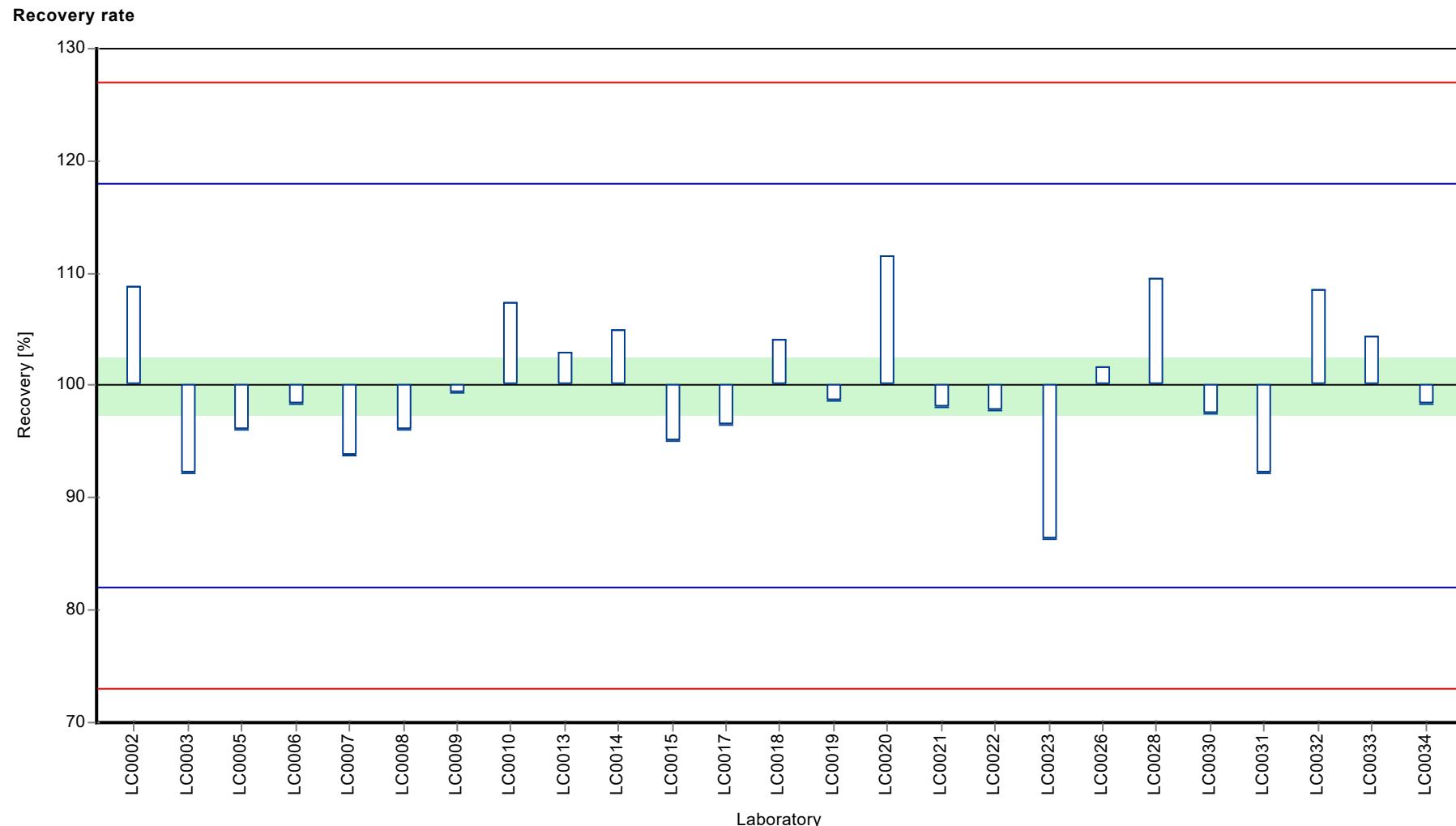
**Characteristics of parameter**

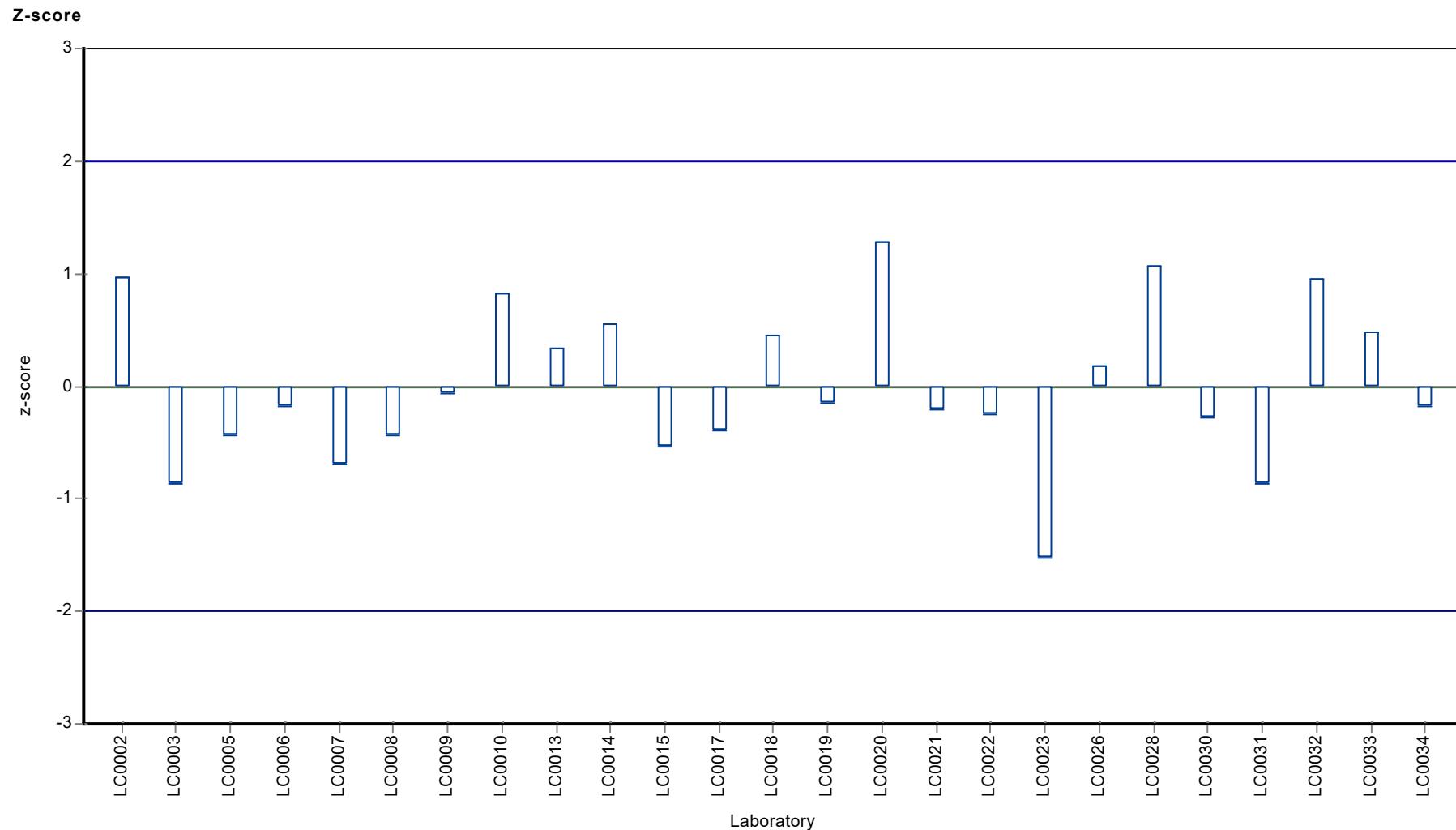
	all results	without outliers	Unit
Mean ± CI (99%)	$30.5 \pm 1.14$	$30.5 \pm 1.14$	µg/l
Minimum	26.3	26.3	µg/l
Maximum	34	34	µg/l
Standard deviation	1.91	1.91	µg/l
rel. standard deviation	6.25	6.25	%
n	25	25	-

**Graphical presentation of results**

**Results**







## Parameter oriented report

### M150 B

#### Zinc

Unit	µg/l
Assigned value ± U (k=2)	179 ± 4.18
Criterion	16.1 (9 %)
Minimum - Maximum	158 - 200
Control test value ± U (k=2)	180 ± 19

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	158	10.1	88.5	-1.28	
LC0002	149.738	3.264	83.9	-1.79	H
LC0003	180	14	101	0.09	
LC0004	-	-	-	-	
LC0005	179	11	100	0.03	
LC0006	182.3	18.23	102	0.23	
LC0007	177	3.5	99.1	-0.1	
LC0008	177	17.1	99.1	-0.1	
LC0009	170	34	95.2	-0.53	
LC0010	189	2.92	106	0.65	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	197	7	110	1.15	
LC0014	184	33.1	103	0.34	
LC0015	174	17.4	97.5	-0.28	
LC0016	-	-	-	-	
LC0017	166	8.3	93	-0.78	
LC0018	173.56	20	97.2	-0.31	
LC0019	173.72	17.72	97.3	-0.3	
LC0020	179	21	100	0.03	
LC0021	183	2	103	0.28	
LC0022	175	31	98	-0.22	
LC0023	161	24.1	90.2	-1.09	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	200	20	112	1.34	
LC0027	-	-	-	-	
LC0028	181	2.33	101	0.15	
LC0029	-	-	-	-	
LC0030	193.4	2.3	108	0.93	
LC0031	172	12	96.3	-0.41	
LC0032	192	28.7	108	0.84	
LC0033	166.4	3.328	93.2	-0.76	
LC0034	180	36	101	0.09	

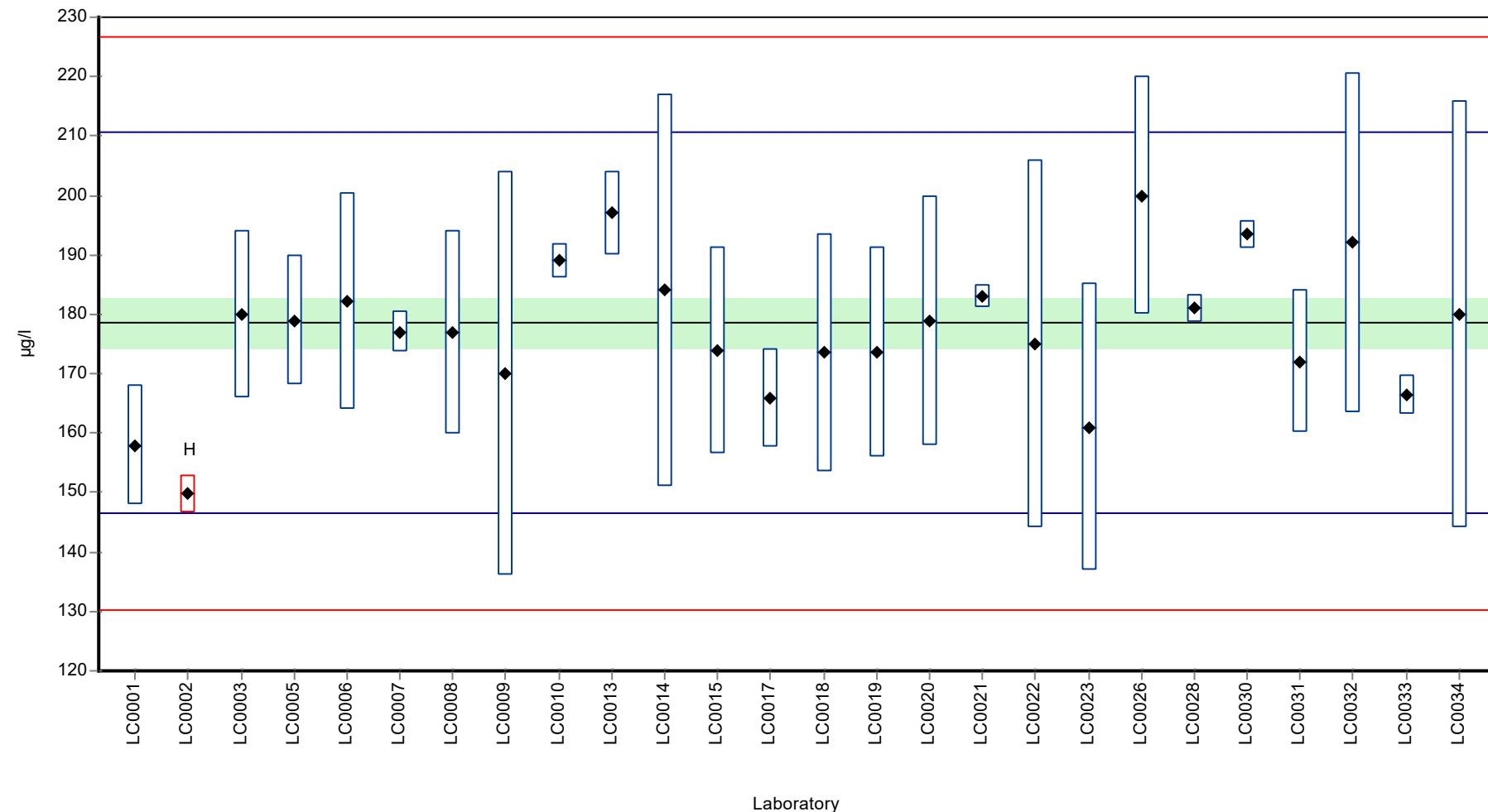
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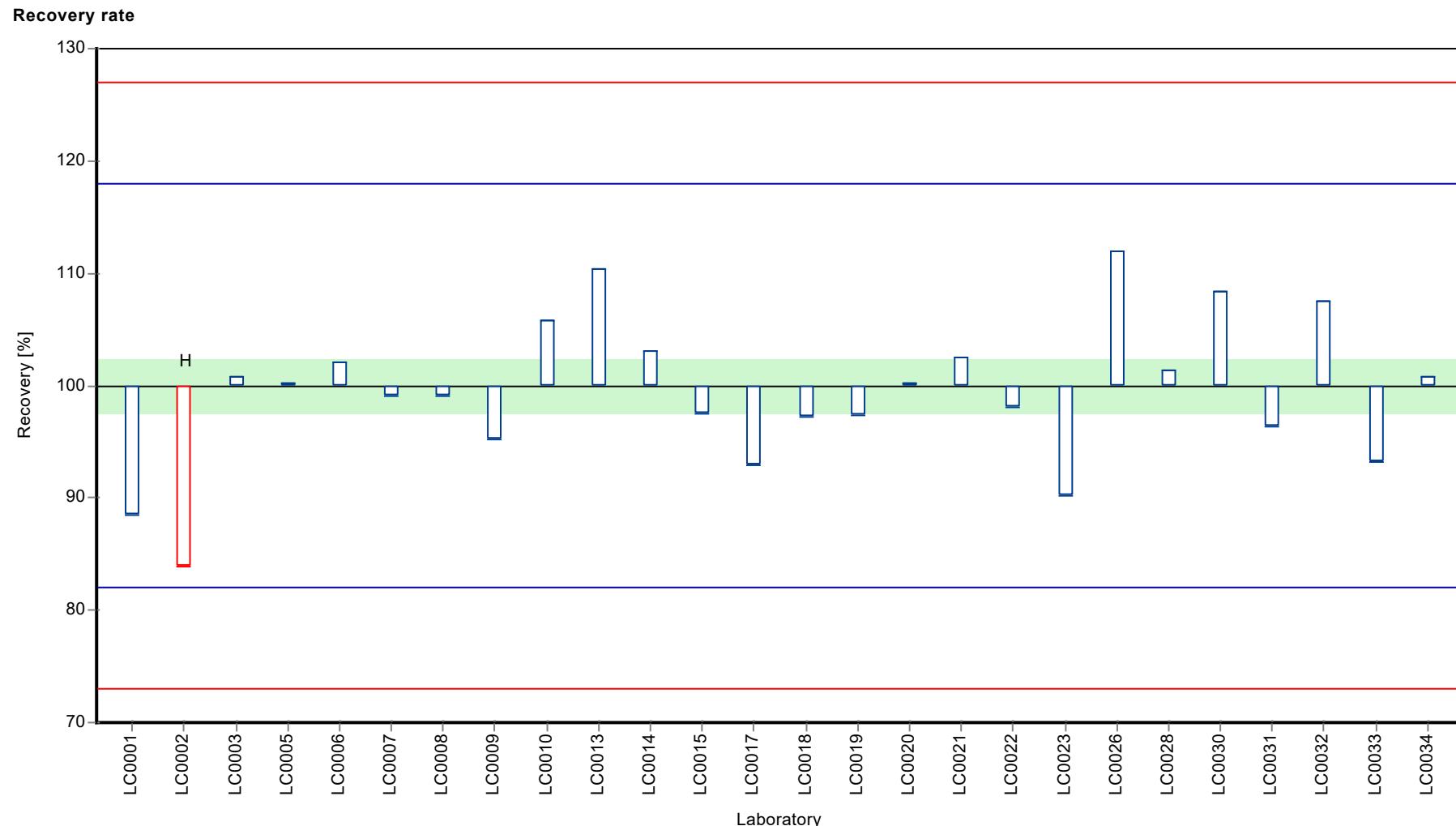
**Characteristics of parameter**

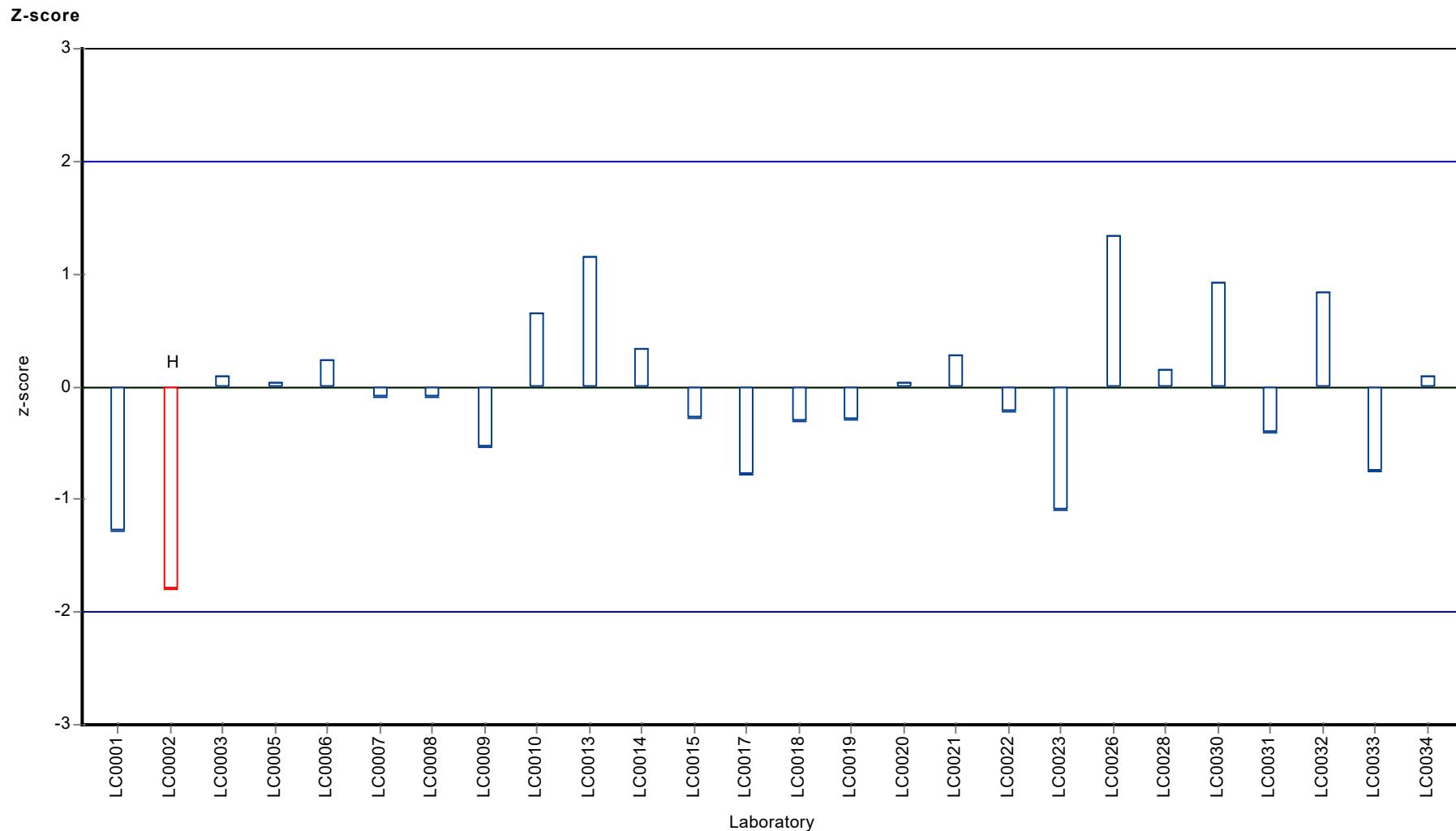
	all results	without outliers	Unit
Mean ± CI (99%)	177 ± 6.88	179 ± 6.27	µg/l
Minimum	150	158	µg/l
Maximum	200	200	µg/l
Standard deviation	11.7	10.5	µg/l
rel. standard deviation	6.59	5.86	%
n	26	25	-

**Graphical presentation of results**

**Results**







## **E8. Labororientierte Auswertung / Laboratory oriented report**

The laboratory oriented report is sorted by laboratory code.

Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	- $\pm$ -	0.55	-	-
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	- $\pm$ -	0.668	-	-
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	- $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	- $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

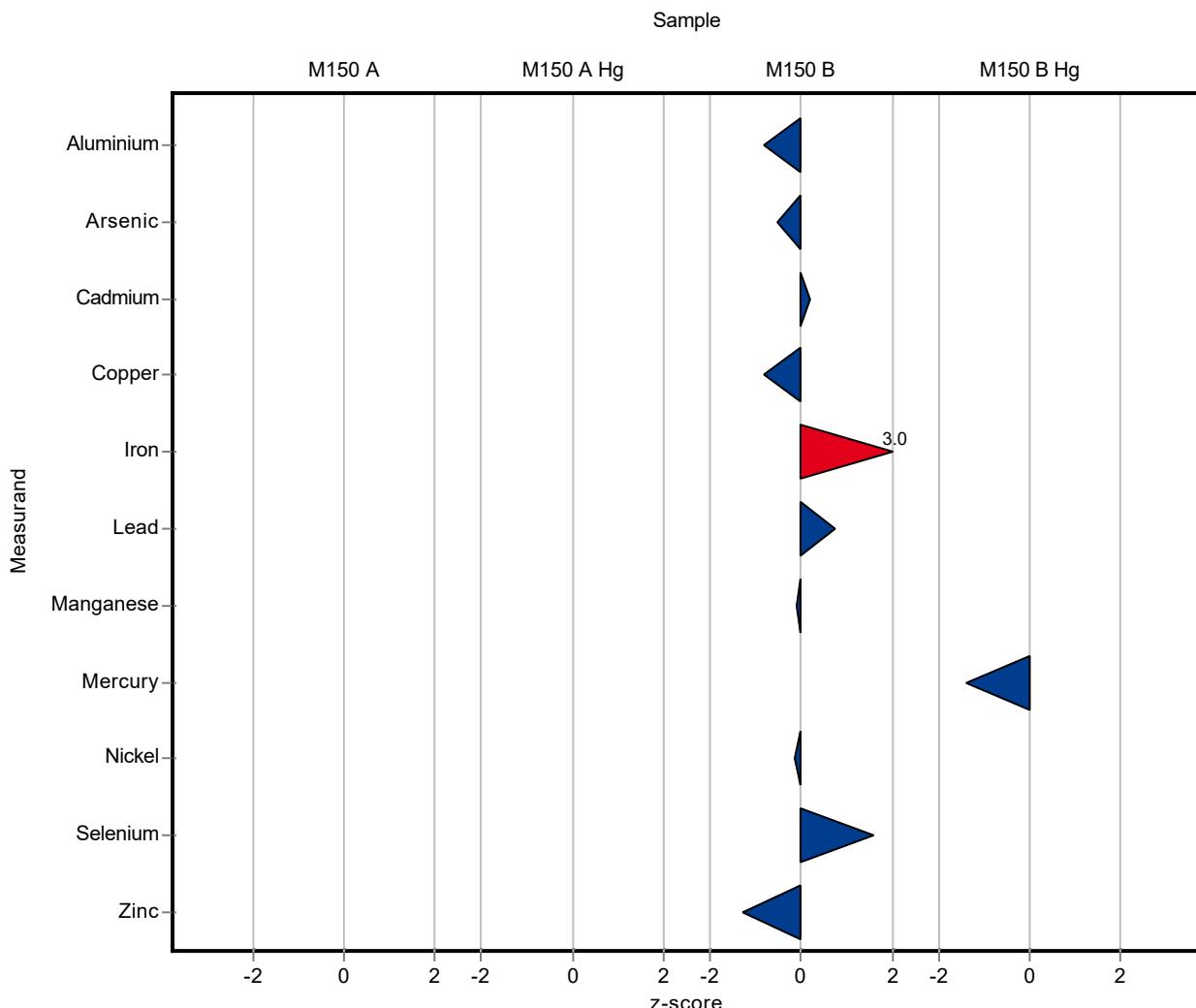
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	150 $\pm$ 10.7	25.7	87.6	-0.83
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.2 $\pm$ 0.43	0.865	93.2	-0.52
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.6 $\pm$ 0.05	0.0588	102	0.21
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	71.4 $\pm$ 5.31	6.92	92.8	-0.80
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	133 $\pm$ 8.91	15.5	154	3.02
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.8 $\pm$ 0.24	0.379	111	0.73
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18 $\pm$ 1.79	1.31	99.3	-0.10
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22 $\pm$ 2.17	2.68	98.4	-0.13
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	4.1 $\pm$ 0.44	0.414	119	1.57

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-
Zinc	µg/l	179 ± 4.18	158 ± 10.1	16.1	88.5 -1.28

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	1.73 ± 0.248	0.301	80.4 -1.40



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	- $\pm$ -	0.55	-	-
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	- $\pm$ -	0.668	-	-
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	- $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	- $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

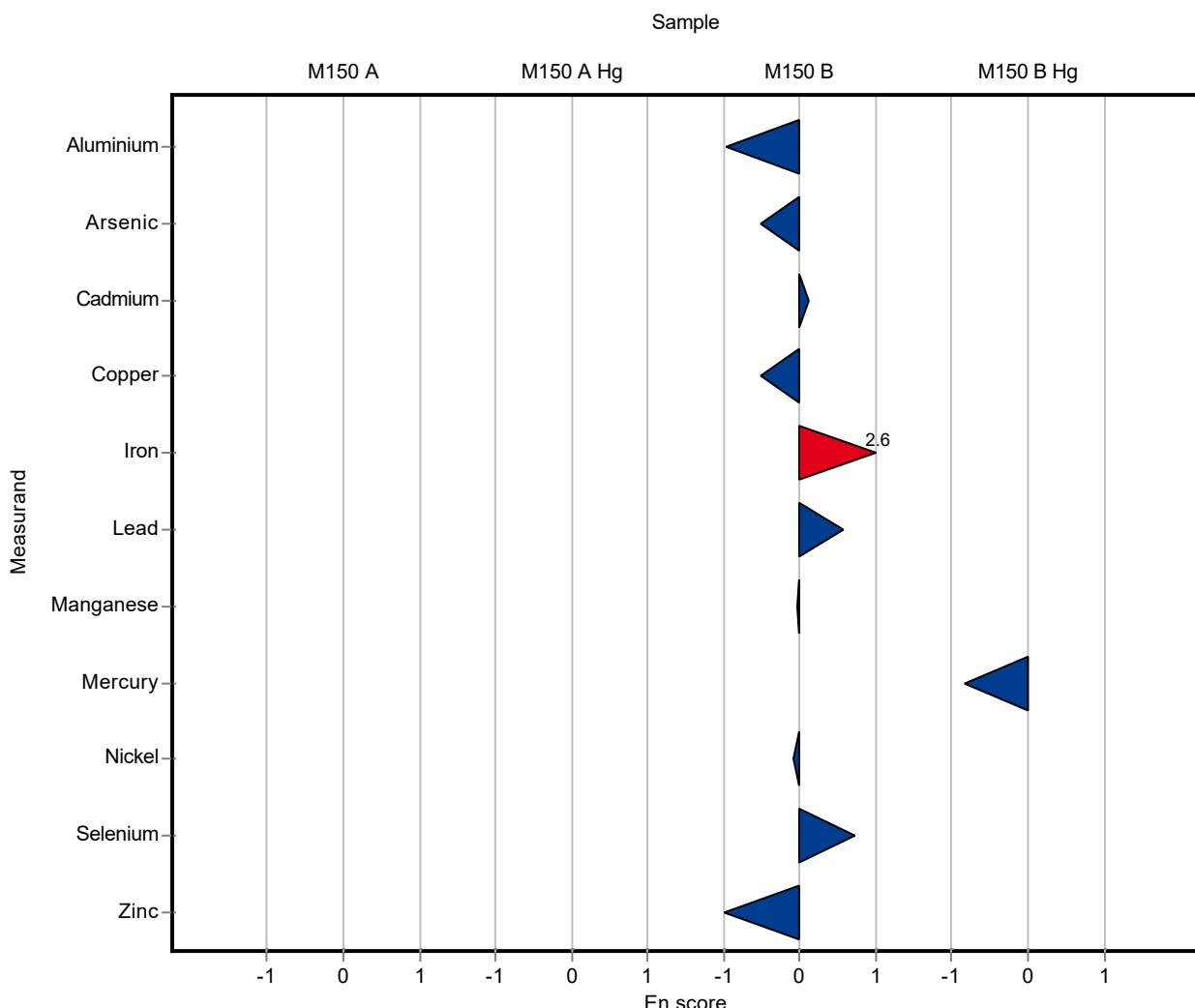
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	150 $\pm$ 10.7	25.7	87.6	-0.98
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.2 $\pm$ 0.43	0.865	93.2	-0.51
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.6 $\pm$ 0.05	0.0588	102	0.12
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	71.4 $\pm$ 5.31	6.92	92.8	-0.51
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	133 $\pm$ 8.91	15.5	154	2.61
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.8 $\pm$ 0.24	0.379	111	0.56
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18 $\pm$ 1.79	1.31	99.3	-0.04
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22 $\pm$ 2.17	2.68	98.4	-0.08
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	4.1 $\pm$ 0.44	0.414	119	0.72

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-
Zinc	µg/l	179 ± 4.18	158 ± 10.1	16.1	88.5 -0.99

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	1.73 ± 0.248	0.301	80.4	-0.83



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.148 $\pm$ 0.917	2.48	97.6	-0.16
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.321 $\pm$ 0.05	0.175	98.2	-0.14
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.297 $\pm$ 0.101	0.55	96.3	-0.37
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.847 $\pm$ 0.017	0.0776	92.8	-0.85
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	12.814 $\pm$ 0.21	0.668	173	8.07
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	272.131 $\pm$ 4.898	48.4	101	0.07
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.525 $\pm$ 0.011	0.0844	93.3	-0.44
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.353 $\pm$ 0.042	0.178	95.4	-0.63
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.174 $\pm$ 0.053	0.265	98.4	-0.14
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	0.968 $\pm$ 0.05	0.125	93.2	-0.56
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.906 $\pm$ 0.023	0.0615	97.2	-0.43
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	33.153 $\pm$ 0.723	2.74	109	0.97

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.672 $\pm$ 0.004	0.112	84	-1.15

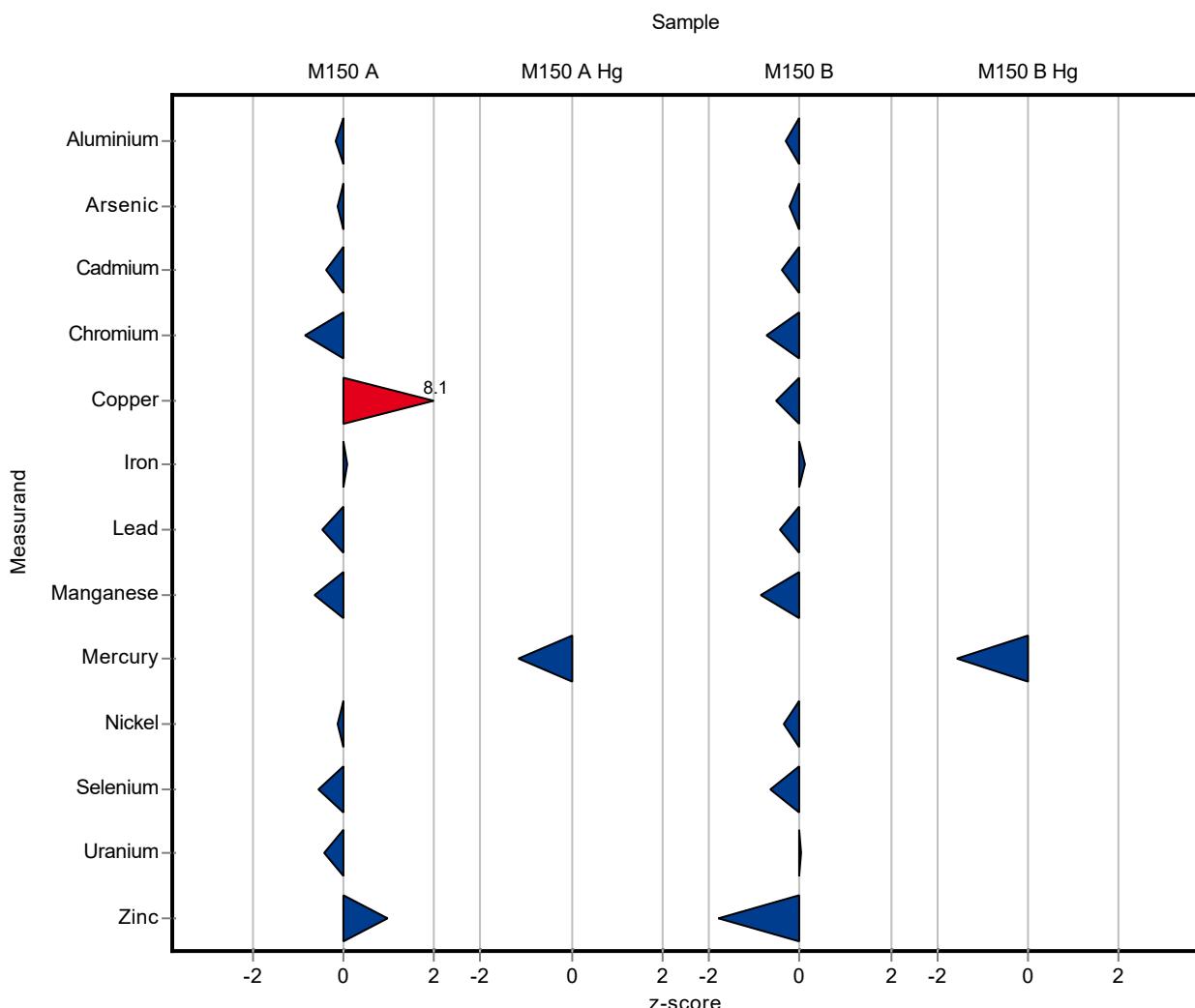
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	163.766 $\pm$ 9.302	25.7	95.6	-0.29
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.463 $\pm$ 0.243	0.865	97.2	-0.22
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.565 $\pm$ 0.011	0.0588	96.1	-0.39
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.674 $\pm$ 0.014	0.061	93.9	-0.72
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	73.206 $\pm$ 1.201	6.92	95.2	-0.54
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	88.143 $\pm$ 1.587	15.5	102	0.13
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.354 $\pm$ 0.049	0.379	93.3	-0.45
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.013 $\pm$ 0.306	1.31	93.8	-0.85
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	21.412 $\pm$ 0.518	2.68	95.8	-0.35
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.179 $\pm$ 0.164	0.414	92.1	-0.66

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.192 ± 0.03	0.0785	100	0.03
Zinc	µg/l	179 ± 4.18	149.738 ± 3.264	16.1	83.9	-1.79

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	1.685 ± 0.01	0.301	78.3	-1.55



Sample: M150A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	16.5 ± 0.665	16.148 ± 0.917	2.48	97.6	-0.20
Arsenic	µg/l	1.35 ± 0.037	1.321 ± 0.05	0.175	98.2	-0.23
Cadmium	µg/l	5.5 ± 0.0883	5.297 ± 0.101	0.55	96.3	-0.91
Chromium	µg/l	0.913 ± 0.0459	0.847 ± 0.017	0.0776	92.8	-1.15
Copper	µg/l	7.42 ± 0.284	12.814 ± 0.21	0.668	173	10.60
Iron	µg/l	269 ± 4.67	272.131 ± 4.898	48.4	101	0.32
Lead	µg/l	0.562 ± 0.0335	0.525 ± 0.011	0.0844	93.3	-0.93
Manganese	µg/l	2.47 ± 0.0899	2.353 ± 0.042	0.178	95.4	-0.91
Nickel	µg/l	2.21 ± 0.0769	2.174 ± 0.053	0.265	98.4	-0.28
Selenium	µg/l	1.04 ± 0.0472	0.968 ± 0.05	0.125	93.2	-0.63
Uranium	µg/l	0.932 ± 0.0203	0.906 ± 0.023	0.0615	97.2	-0.53
Zinc	µg/l	30.5 ± 0.763	33.153 ± 0.723	2.74	109	1.63

Sample: M150AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.8 ± 0.0338	0.672 ± 0.004	0.112	84	-3.69

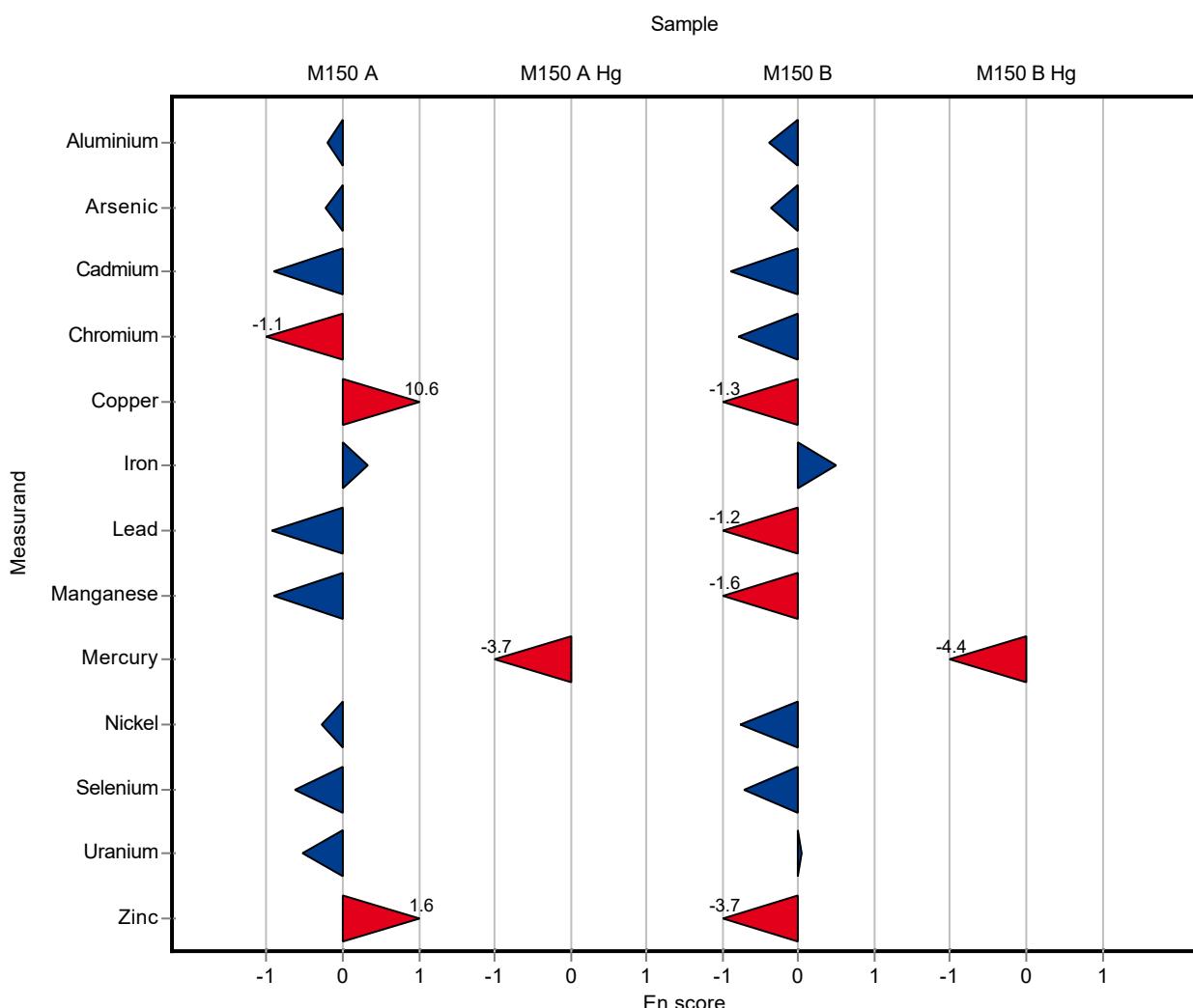
Sample: M150B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	171 ± 3.57	163.766 ± 9.302	25.7	95.6	-0.40
Arsenic	µg/l	6.65 ± 0.205	6.463 ± 0.243	0.865	97.2	-0.36
Cadmium	µg/l	0.588 ± 0.0125	0.565 ± 0.011	0.0588	96.1	-0.90
Chromium	µg/l	0.718 ± 0.0472	0.674 ± 0.014	0.061	93.9	-0.80
Copper	µg/l	76.9 ± 1.7	73.206 ± 1.201	6.92	95.2	-1.27
Iron	µg/l	86.2 ± 2.34	88.143 ± 1.587	15.5	102	0.50
Lead	µg/l	2.52 ± 0.0972	2.354 ± 0.049	0.379	93.3	-1.23
Manganese	µg/l	18.1 ± 0.349	17.013 ± 0.306	1.31	93.8	-1.58
Nickel	µg/l	22.4 ± 0.703	21.412 ± 0.518	2.68	95.8	-0.76
Selenium	µg/l	3.45 ± 0.179	3.179 ± 0.164	0.414	92.1	-0.73

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.192 ± 0.03	0.0785	100 0.03
Zinc	µg/l	179 ± 4.18	149.738 ± 3.264	16.1	83.9 -3.71

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	1.685 ± 0.01	0.301	78.3	-4.44



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	15.3 $\pm$ 1.26	2.48	92.5	-0.50
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.3 $\pm$ 0.09	0.175	96.6	-0.26
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.68 $\pm$ 0.35	0.55	103	0.33
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<1 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	6.79 $\pm$ 0.5	0.668	91.5	-0.95
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	319 $\pm$ 103	48.4	119	1.04
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<10 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	1.44 $\pm$ 0.1	0.265	65.2	-2.90
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.02 $\pm$ 0.15	0.125	98.3	-0.15
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	<1 (LOQ) $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	28.1 $\pm$ 2.18	2.74	92.2	-0.87

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.85 $\pm$ 0.13	0.112	106	0.44

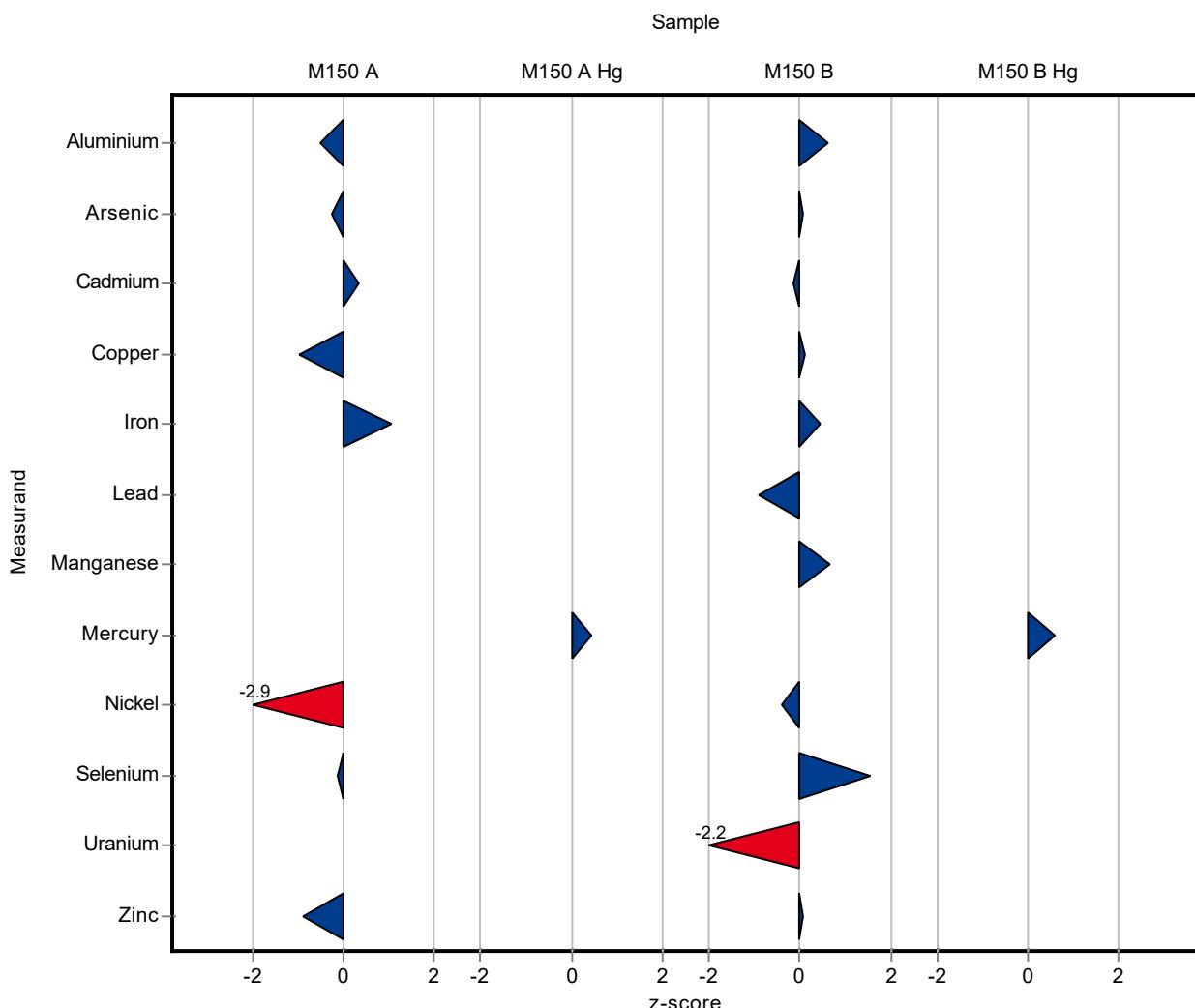
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	187 $\pm$ 15.4	25.7	109	0.61
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.72 $\pm$ 0.47	0.865	101	0.08
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.58 $\pm$ 0.04	0.0588	98.7	-0.13
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	77.7 $\pm$ 5.6	6.92	101	0.11
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	93.3 $\pm$ 30.3	15.5	108	0.46
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.18 $\pm$ 0.16	0.379	86.4	-0.91
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	19 $\pm$ 2.84	1.31	105	0.67
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	21.3 $\pm$ 1.51	2.68	95.3	-0.40
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	4.09 $\pm$ 0.61	0.414	119	1.54

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.02 ± 0.09	0.0785	85.7	-2.16
Zinc	µg/l	179 ± 4.18	180 ± 14	16.1	101	0.09

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.33 ± 0.35	0.301	108	0.59



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	15.3 $\pm$ 1.26	2.48	92.5	-0.48
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.3 $\pm$ 0.09	0.175	96.6	-0.24
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.68 $\pm$ 0.35	0.55	103	0.26
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<1 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	6.79 $\pm$ 0.5	0.668	91.5	-0.61
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	319 $\pm$ 103	48.4	119	0.24
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<10 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	1.44 $\pm$ 0.1	0.265	65.2	-3.59
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.02 $\pm$ 0.15	0.125	98.3	-0.06
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	<1 (LOQ) $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	28.1 $\pm$ 2.18	2.74	92.2	-0.54

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.85 $\pm$ 0.13	0.112	106	0.19

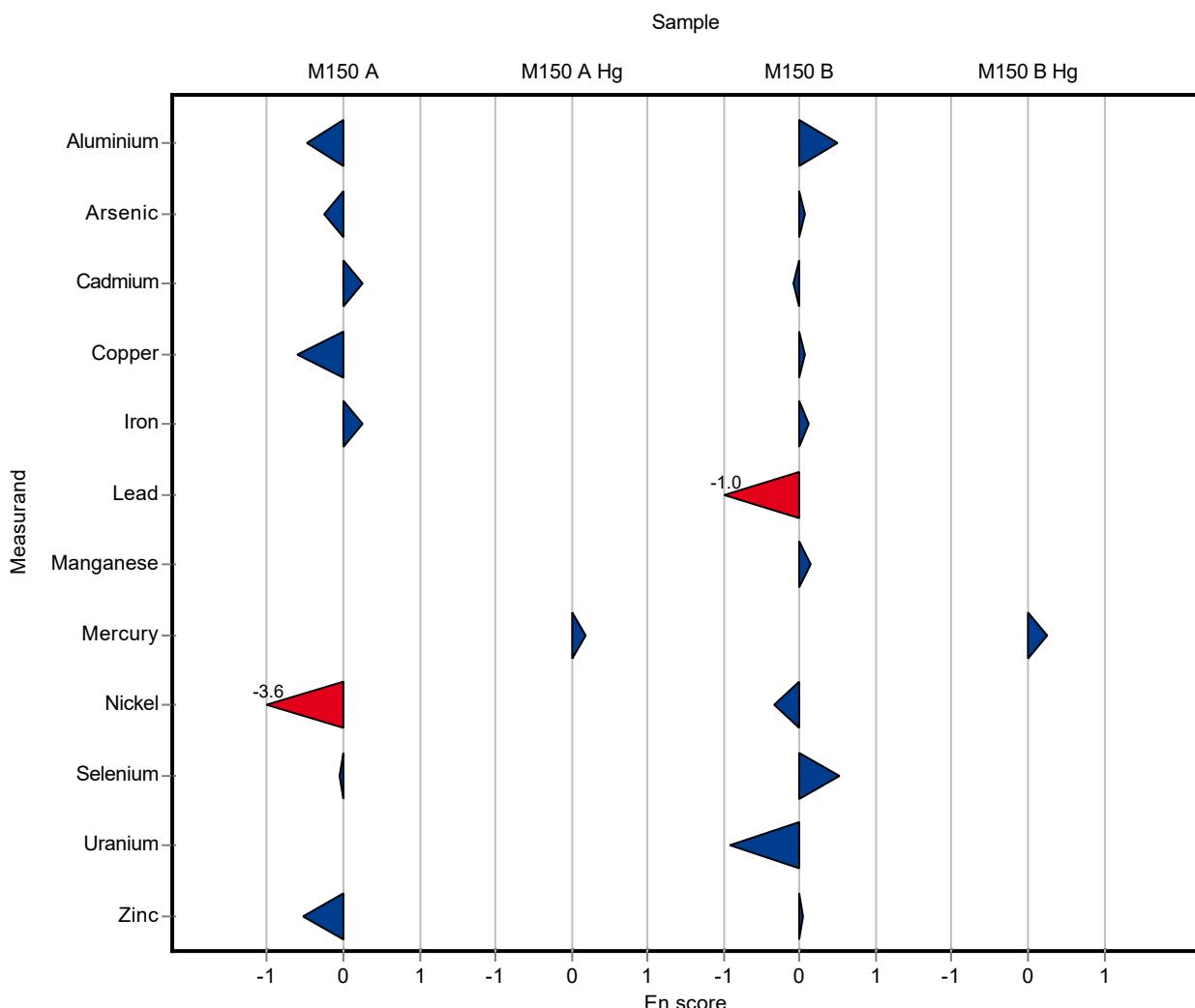
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	187 $\pm$ 15.4	25.7	109	0.51
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.72 $\pm$ 0.47	0.865	101	0.07
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.58 $\pm$ 0.04	0.0588	98.7	-0.10
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	77.7 $\pm$ 5.6	6.92	101	0.07
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	93.3 $\pm$ 30.3	15.5	108	0.12
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.18 $\pm$ 0.16	0.379	86.4	-1.03
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	19 $\pm$ 2.84	1.31	105	0.15
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	21.3 $\pm$ 1.51	2.68	95.3	-0.34
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	4.09 $\pm$ 0.61	0.414	119	0.52

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.02 ± 0.09	0.0785	85.7	-0.93
Zinc	µg/l	179 ± 4.18	180 ± 14	16.1	101	0.05

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.33 ± 0.35	0.301	108	0.25



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	- $\pm$ -	0.55	-	-
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	- $\pm$ -	0.668	-	-
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	- $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	- $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	- $\pm$ -	25.7	-	-
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	- $\pm$ -	0.0588	-	-
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	- $\pm$ -	6.92	-	-
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	- $\pm$ -	15.5	-	-
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	- $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	- $\pm$ -	1.31	-	-
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-	-
Zinc	µg/l	179 ± 4.18	- ± -	16.1	-	-

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	-	-

Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	- $\pm$ -	0.55	-	-
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	- $\pm$ -	0.668	-	-
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	- $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	- $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	- $\pm$ -	25.7	-	-
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	- $\pm$ -	0.0588	-	-
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	- $\pm$ -	6.92	-	-
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	- $\pm$ -	15.5	-	-
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	- $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	- $\pm$ -	1.31	-	-
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-
Zinc	µg/l	179 ± 4.18	- ± -	16.1	-

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	-

Sample: M150A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	16.5 ± 0.665	15.8 ± 1.7	2.48	95.5	-0.30
Arsenic	µg/l	1.35 ± 0.037	1.33 ± 0.075	0.175	98.9	-0.09
Cadmium	µg/l	5.5 ± 0.0883	5.56 ± 0.26	0.55	101	0.11
Chromium	µg/l	0.913 ± 0.0459	<1 (LOQ) ± -	0.0776	-	-
Copper	µg/l	7.42 ± 0.284	7.48 ± 0.41	0.668	101	0.08
Iron	µg/l	269 ± 4.67	277 ± 31	48.4	103	0.17
Lead	µg/l	0.562 ± 0.0335	<1 (LOQ) ± -	0.0844	-	-
Manganese	µg/l	2.47 ± 0.0899	2.32 ± 0.13	0.178	94.1	-0.82
Nickel	µg/l	2.21 ± 0.0769	2.29 ± 0.18	0.265	104	0.30
Selenium	µg/l	1.04 ± 0.0472	1.03 ± 0.12	0.125	99.2	-0.07
Uranium	µg/l	0.932 ± 0.0203	0.919 ± 0.1	0.0615	98.6	-0.22
Zinc	µg/l	30.5 ± 0.763	29.3 ± 1.8	2.74	96.1	-0.43

Sample: M150AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.8 ± 0.0338	0.839 ± 0.13	0.112	105	0.34

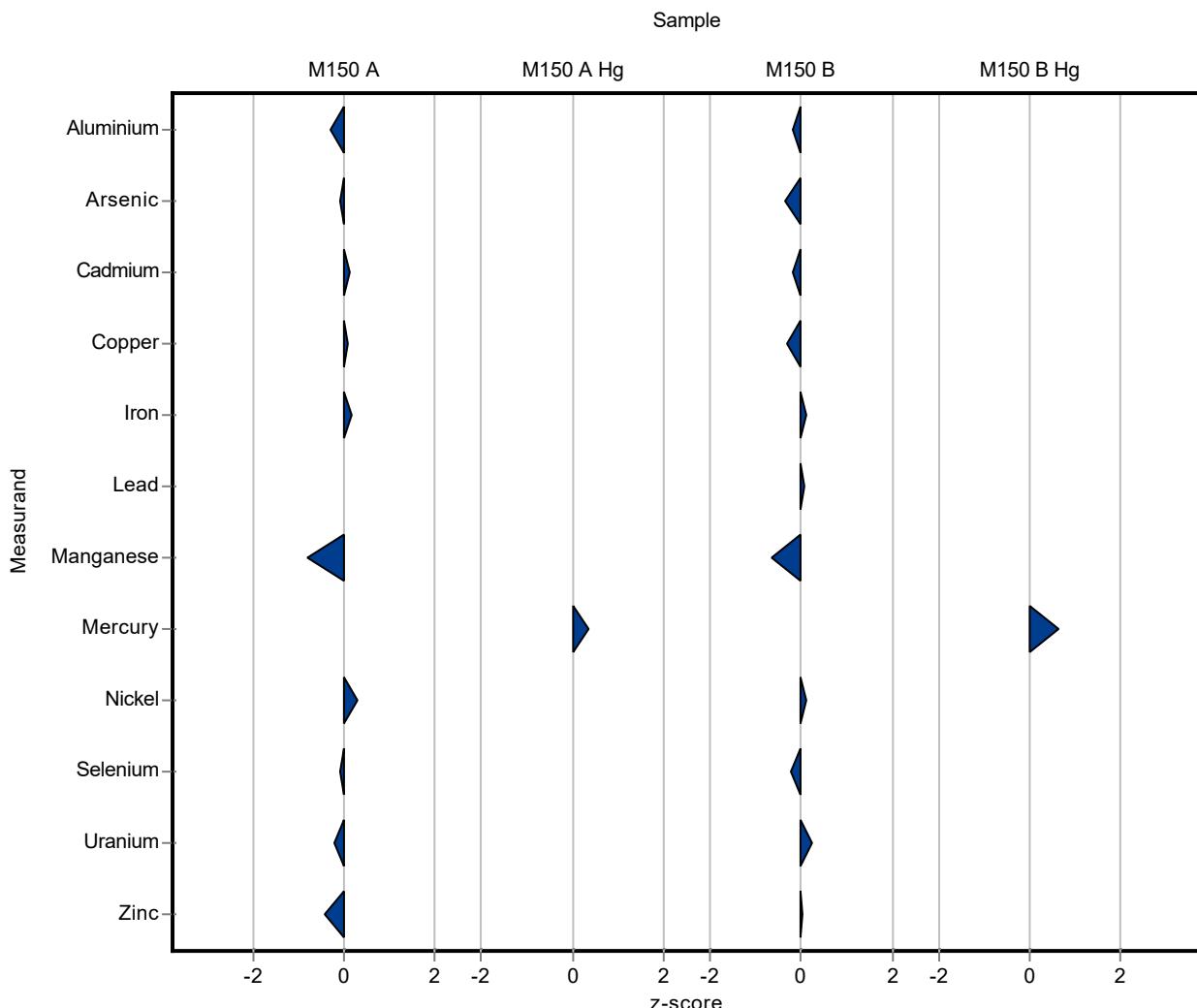
Sample: M150B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	171 ± 3.57	167 ± 18	25.7	97.5	-0.17
Arsenic	µg/l	6.65 ± 0.205	6.34 ± 0.36	0.865	95.3	-0.36
Cadmium	µg/l	0.588 ± 0.0125	0.576 ± 0.03	0.0588	98	-0.20
Chromium	µg/l	0.718 ± 0.0472	<1 (LOQ) ± -	0.061	-	-
Copper	µg/l	76.9 ± 1.7	74.7 ± 4.1	6.92	97.1	-0.32
Iron	µg/l	86.2 ± 2.34	87.9 ± 9.8	15.5	102	0.11
Lead	µg/l	2.52 ± 0.0972	2.55 ± 0.27	0.379	101	0.07
Manganese	µg/l	18.1 ± 0.349	17.3 ± 0.94	1.31	95.4	-0.63
Nickel	µg/l	22.4 ± 0.703	22.7 ± 1.7	2.68	102	0.13
Selenium	µg/l	3.45 ± 0.179	3.35 ± 0.4	0.414	97.1	-0.24

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.21 ± 0.13	0.0785	102	0.26
Zinc	µg/l	179 ± 4.18	179 ± 11	16.1	100	0.03

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.34 ± 0.36	0.301	109	0.63



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	15.8 $\pm$ 1.7	2.48	95.5	-0.21
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.33 $\pm$ 0.075	0.175	98.9	-0.10
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.56 $\pm$ 0.26	0.55	101	0.12
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<1 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.48 $\pm$ 0.41	0.668	101	0.07
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	277 $\pm$ 31	48.4	103	0.13
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.32 $\pm$ 0.13	0.178	94.1	-0.53
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.29 $\pm$ 0.18	0.265	104	0.22
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.03 $\pm$ 0.12	0.125	99.2	-0.03
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.919 $\pm$ 0.1	0.0615	98.6	-0.07
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	29.3 $\pm$ 1.8	2.74	96.1	-0.32

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.839 $\pm$ 0.13	0.112	105	0.15

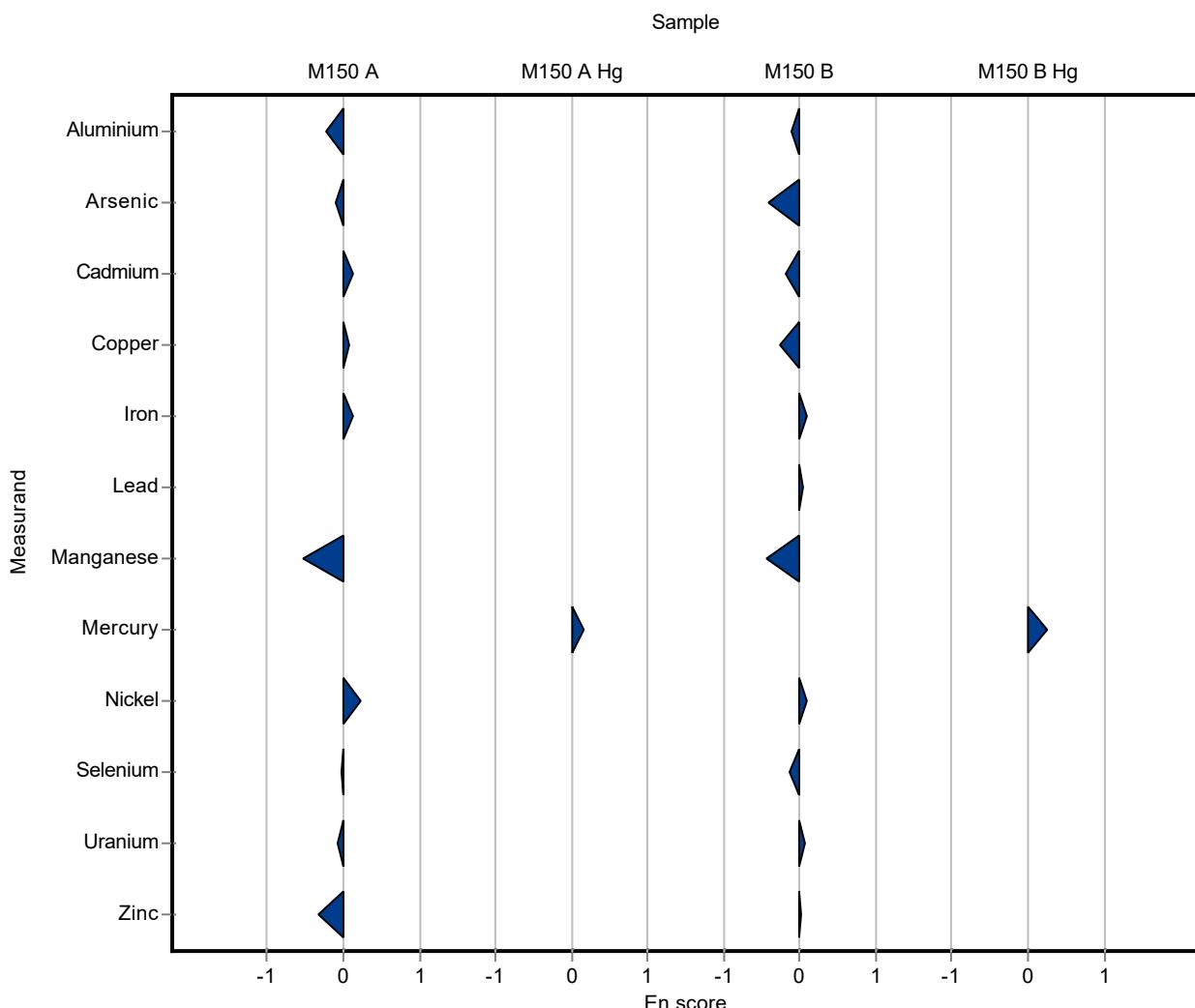
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	167 $\pm$ 18	25.7	97.5	-0.12
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.34 $\pm$ 0.36	0.865	95.3	-0.41
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.576 $\pm$ 0.03	0.0588	98	-0.19
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	74.7 $\pm$ 4.1	6.92	97.1	-0.27
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	87.9 $\pm$ 9.8	15.5	102	0.09
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.55 $\pm$ 0.27	0.379	101	0.05
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.3 $\pm$ 0.94	1.31	95.4	-0.43
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22.7 $\pm$ 1.7	2.68	102	0.10
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.35 $\pm$ 0.4	0.414	97.1	-0.12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.21 ± 0.13	0.0785	102 0.08
Zinc	µg/l	179 ± 4.18	179 ± 11	16.1	100 0.02

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.34 ± 0.36	0.301	109 0.26



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	17.5 $\pm$ 1.75	2.48	106	0.38
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.38 $\pm$ 0.207	0.175	103	0.20
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.68 $\pm$ 0.852	0.55	103	0.33
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<1 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.25 $\pm$ 0.73	0.668	97.7	-0.26
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	262 $\pm$ 26.2	48.4	97.5	-0.14
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.53 $\pm$ 0.053	0.0844	94.2	-0.38
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.37 $\pm$ 0.24	0.178	96.1	-0.54
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.1 $\pm$ 0.21	0.265	95	-0.41
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.03 $\pm$ 0.155	0.125	99.2	-0.07
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	<1 (LOQ) $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	30 $\pm$ 3	2.74	98.4	-0.18

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.808 $\pm$ 0.081	0.112	101	0.07

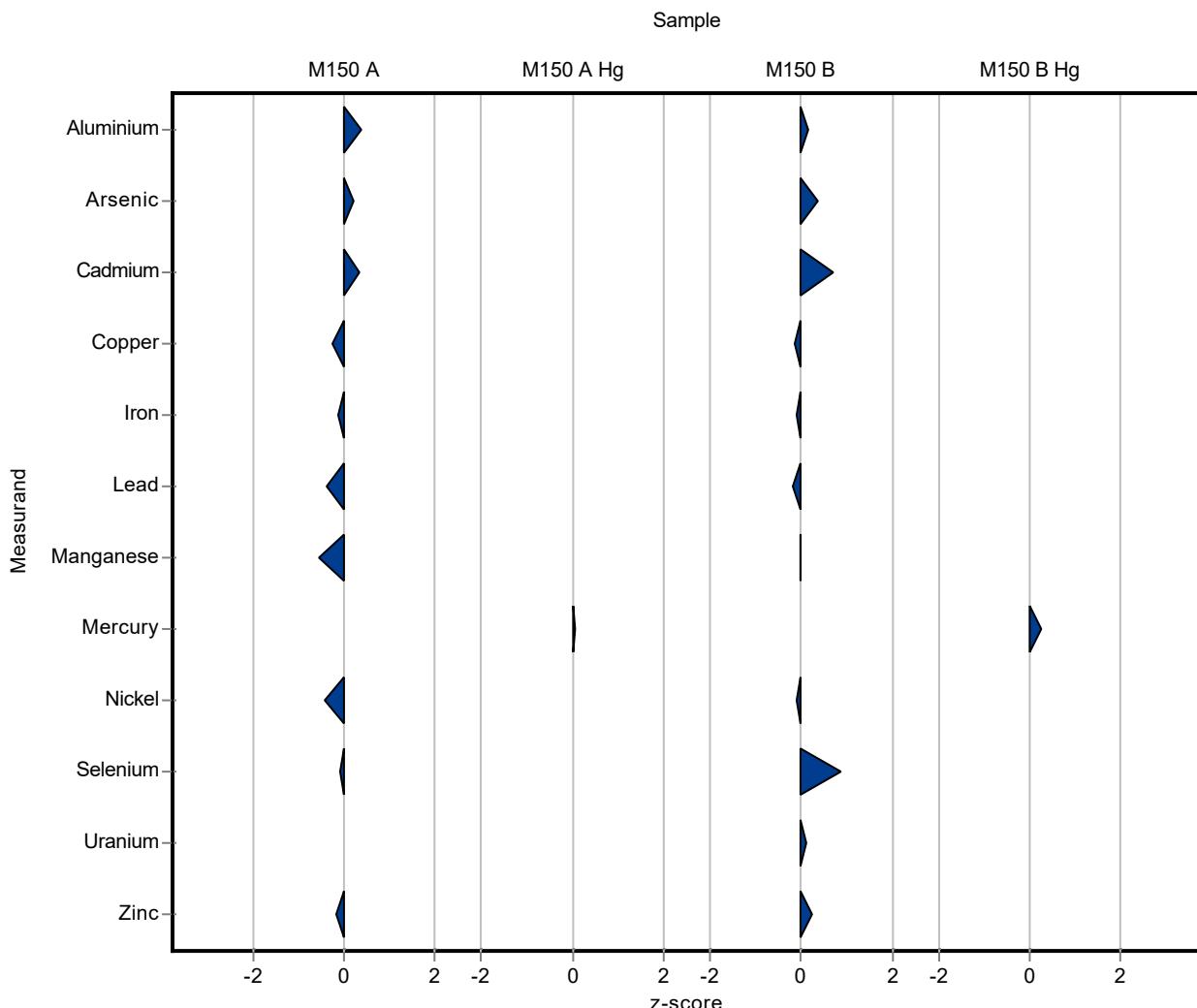
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	175.3 $\pm$ 1.75	25.7	102	0.16
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.96 $\pm$ 1.04	0.865	105	0.36
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.63 $\pm$ 0.093	0.0588	107	0.72
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	75.9 $\pm$ 7.59	6.92	98.7	-0.15
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	84.6 $\pm$ 8.46	15.5	98.2	-0.10
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.46 $\pm$ 0.246	0.379	97.5	-0.17
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.1 $\pm$ 1.81	1.31	99.8	-0.02
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22.1 $\pm$ 2.21	2.68	98.8	-0.10
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.82 $\pm$ 0.573	0.414	111	0.89

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.2 ± 0.12	0.0785	101	0.13
Zinc	µg/l	179 ± 4.18	182.3 ± 18.23	16.1	102	0.23

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.23 ± 0.223	0.301	104	0.26



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	17.5 $\pm$ 1.75	2.48	106	0.27
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.38 $\pm$ 0.207	0.175	103	0.08
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.68 $\pm$ 0.852	0.55	103	0.11
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<1 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.25 $\pm$ 0.73	0.668	97.7	-0.12
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	262 $\pm$ 26.2	48.4	97.5	-0.13
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.53 $\pm$ 0.053	0.0844	94.2	-0.29
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.37 $\pm$ 0.24	0.178	96.1	-0.20
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.1 $\pm$ 0.21	0.265	95	-0.26
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.03 $\pm$ 0.155	0.125	99.2	-0.03
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	<1 (LOQ) $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	30 $\pm$ 3	2.74	98.4	-0.08

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.808 $\pm$ 0.081	0.112	101	0.05

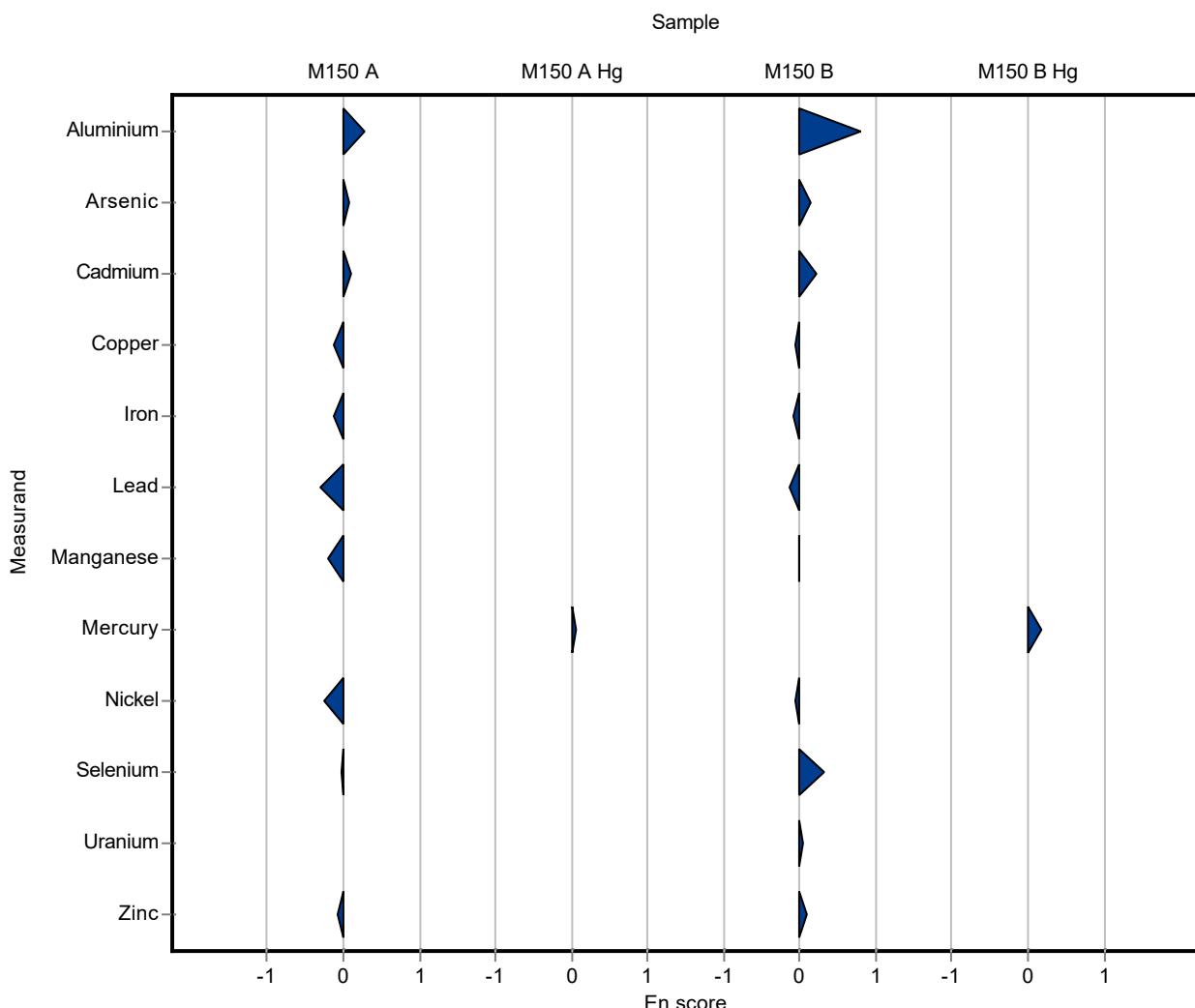
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	175.3 $\pm$ 1.75	25.7	102	0.81
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.96 $\pm$ 1.04	0.865	105	0.15
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.63 $\pm$ 0.093	0.0588	107	0.23
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	75.9 $\pm$ 7.59	6.92	98.7	-0.07
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	84.6 $\pm$ 8.46	15.5	98.2	-0.09
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.46 $\pm$ 0.246	0.379	97.5	-0.13
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.1 $\pm$ 1.81	1.31	99.8	-0.01
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22.1 $\pm$ 2.21	2.68	98.8	-0.06
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.82 $\pm$ 0.573	0.414	111	0.32

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.2 ± 0.12	0.0785	101 0.04
Zinc	µg/l	179 ± 4.18	182.3 ± 18.23	16.1	102 0.10

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.23 ± 0.223	0.301	104 0.17



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	14.3 $\pm$ 0.68	2.48	86.4	-0.91
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.73 $\pm$ 0.18	0.175	129	2.20
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.61 $\pm$ 0.219	0.55	102	0.20
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<1 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	8.21 $\pm$ 0.15	0.668	111	1.18
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	285 $\pm$ 9.2	48.4	106	0.34
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<10 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.6 $\pm$ 0.13	0.265	118	1.47
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.32 $\pm$ 0.23	0.125	127	2.26
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	<1 (LOQ) $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	28.6 $\pm$ 0.32	2.74	93.8	-0.69

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.812 $\pm$ 0.02	0.112	101	0.10

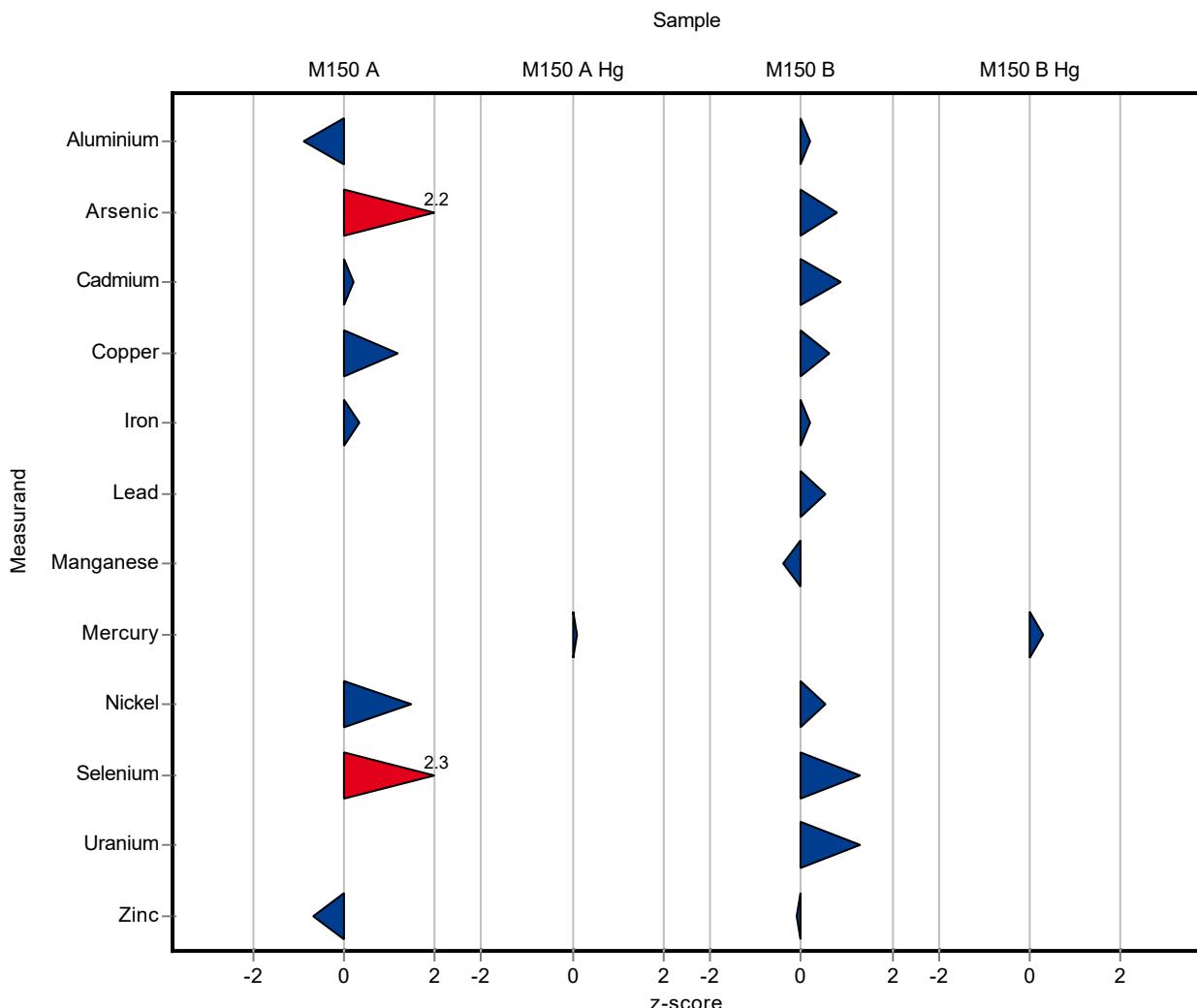
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	176 $\pm$ 6.7	25.7	103	0.18
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	7.34 $\pm$ 0.17	0.865	110	0.80
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.639 $\pm$ 0.022	0.0588	109	0.87
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	81.3 $\pm$ 1.48	6.92	106	0.63
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	89.3 $\pm$ 0.9	15.5	104	0.20
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.73 $\pm$ 0.11	0.379	108	0.54
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.6 $\pm$ 0.7	1.31	97.1	-0.41
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	23.8 $\pm$ 0.77	2.68	106	0.54
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.98 $\pm$ 0.23	0.414	115	1.28

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.29 ± 0.1	0.0785	108	1.28
Zinc	µg/l	179 ± 4.18	177 ± 3.5	16.1	99.1	-0.10

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.24 ± 0.023	0.301	104	0.29



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	14.3 $\pm$ 0.68	2.48	86.4	-1.48
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.73 $\pm$ 0.18	0.175	129	1.06
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.61 $\pm$ 0.219	0.55	102	0.25
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<1 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	8.21 $\pm$ 0.15	0.668	111	1.90
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	285 $\pm$ 9.2	48.4	106	0.86
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<10 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.6 $\pm$ 0.13	0.265	118	1.44
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.32 $\pm$ 0.23	0.125	127	0.61
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	<1 (LOQ) $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	28.6 $\pm$ 0.32	2.74	93.8	-1.90

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.812 $\pm$ 0.02	0.112	101	0.22

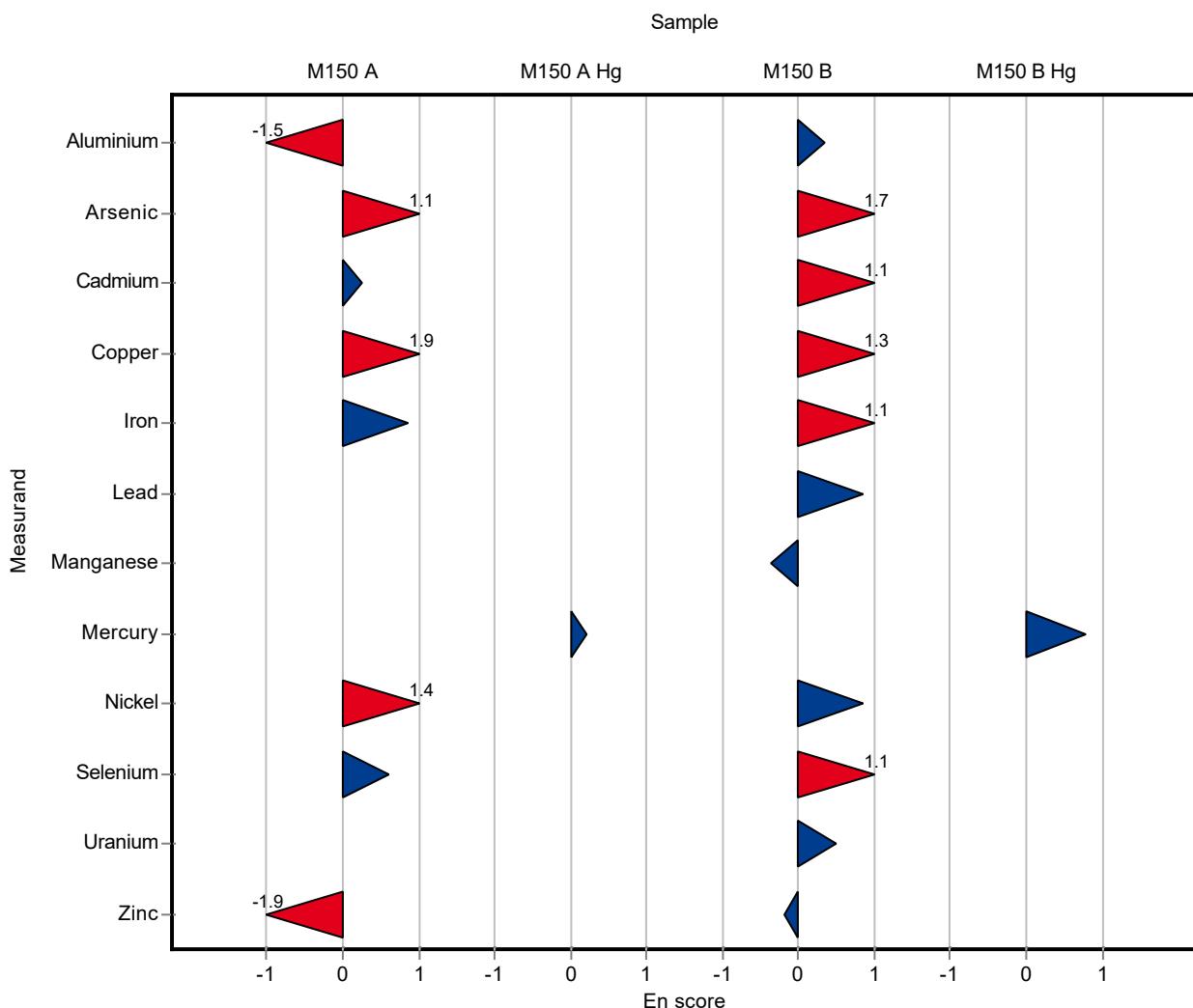
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	176 $\pm$ 6.7	25.7	103	0.34
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	7.34 $\pm$ 0.17	0.865	110	1.73
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.639 $\pm$ 0.022	0.0588	109	1.12
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	81.3 $\pm$ 1.48	6.92	106	1.28
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	89.3 $\pm$ 0.9	15.5	104	1.06
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.73 $\pm$ 0.11	0.379	108	0.86
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.6 $\pm$ 0.7	1.31	97.1	-0.37
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	23.8 $\pm$ 0.77	2.68	106	0.85
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.98 $\pm$ 0.23	0.414	115	1.07

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.29 ± 0.1	0.0785	108 0.49
Zinc	µg/l	179 ± 4.18	177 ± 3.5	16.1	99.1 -0.19

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.24 ± 0.023	0.301	104 0.78



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.4 $\pm$ 5.24	2.48	99.1	-0.06
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.39 $\pm$ 0.2	0.175	103	0.26
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.44 $\pm$ 0.99	0.55	98.9	-0.11
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.94 $\pm$ 0.11	0.0776	103	0.35
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	8.14 $\pm$ 0.88	0.668	110	1.07
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	276 $\pm$ 39.2	48.4	103	0.15
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.51 $\pm$ 0.08	0.0844	90.7	-0.62
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.48 $\pm$ 0.22	0.178	101	0.08
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.15 $\pm$ 0.39	0.265	97.3	-0.23
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.05 $\pm$ 0.19	0.125	101	0.10
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.88 $\pm$ 0.1	0.0615	94.4	-0.85
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	29.3 $\pm$ 2.84	2.74	96.1	-0.43

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.8 $\pm$ 0.09	0.112	100	0.00

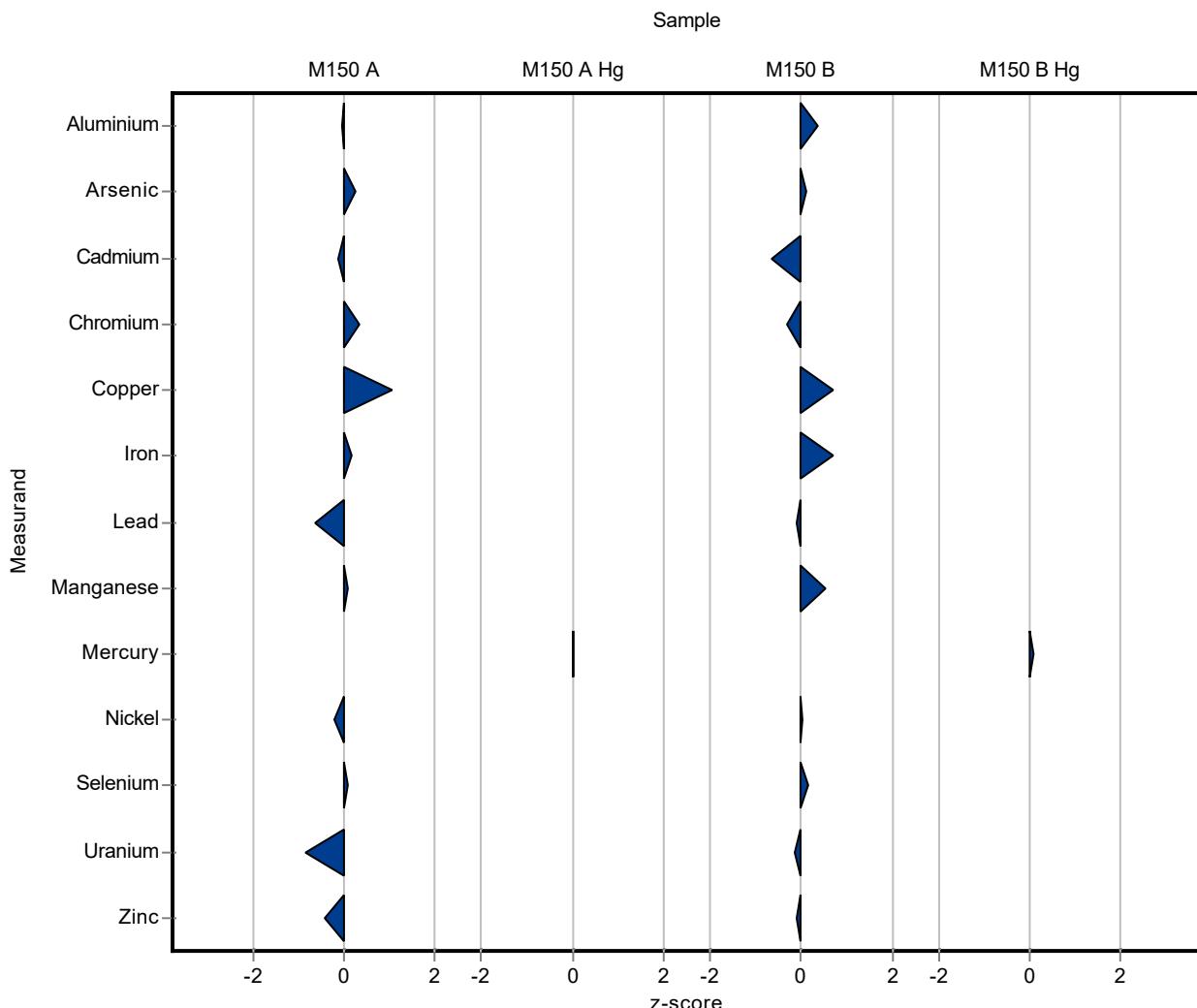
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	181 $\pm$ 57.6	25.7	106	0.38
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.73 $\pm$ 0.96	0.865	101	0.09
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.55 $\pm$ 0.1	0.0588	93.6	-0.64
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.7 $\pm$ 0.08	0.061	97.5	-0.30
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	81.9 $\pm$ 8.84	6.92	106	0.72
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	97.1 $\pm$ 13.8	15.5	113	0.70
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.49 $\pm$ 0.93	0.379	98.6	-0.09
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.8 $\pm$ 1.7	1.31	104	0.52
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22.4 $\pm$ 4.05	2.68	100	0.02
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.52 $\pm$ 0.63	0.414	102	0.17

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.18 ± 0.13	0.0785	99.2	-0.13
Zinc	µg/l	179 ± 4.18	177 ± 17.1	16.1	99.1	-0.10

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.18 ± 0.23	0.301	101	0.10



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.4 $\pm$ 5.24	2.48	99.1	-0.01
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.39 $\pm$ 0.2	0.175	103	0.11
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.44 $\pm$ 0.99	0.55	98.9	-0.03
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.94 $\pm$ 0.11	0.0776	103	0.12
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	8.14 $\pm$ 0.88	0.668	110	0.40
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	276 $\pm$ 39.2	48.4	103	0.09
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.51 $\pm$ 0.08	0.0844	90.7	-0.32
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.48 $\pm$ 0.22	0.178	101	0.03
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.15 $\pm$ 0.39	0.265	97.3	-0.08
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.05 $\pm$ 0.19	0.125	101	0.03
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.88 $\pm$ 0.1	0.0615	94.4	-0.26
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	29.3 $\pm$ 2.84	2.74	96.1	-0.21

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.8 $\pm$ 0.09	0.112	100	0.00

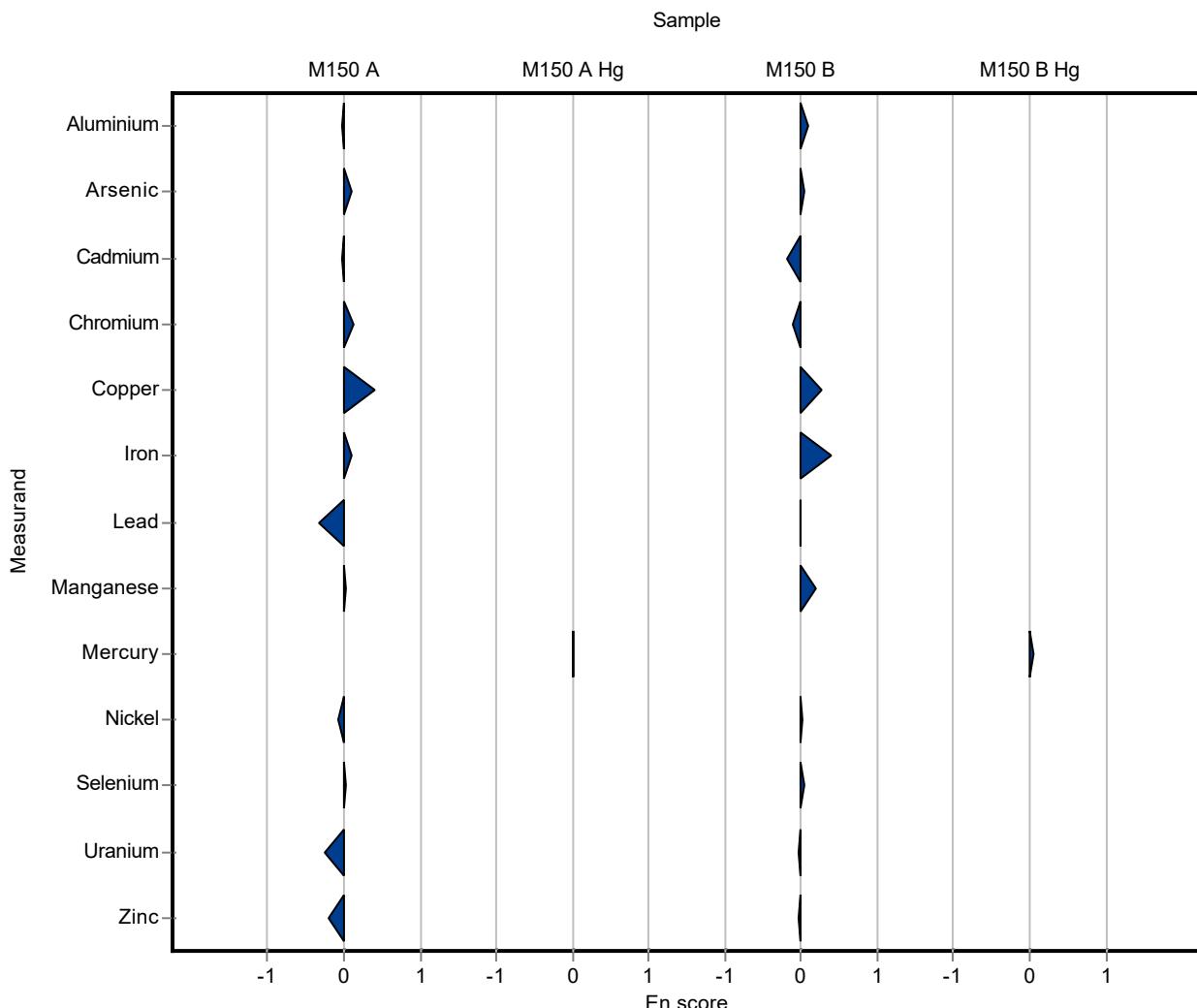
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	181 $\pm$ 57.6	25.7	106	0.08
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.73 $\pm$ 0.96	0.865	101	0.04
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.55 $\pm$ 0.1	0.0588	93.6	-0.19
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.7 $\pm$ 0.08	0.061	97.5	-0.11
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	81.9 $\pm$ 8.84	6.92	106	0.28
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	97.1 $\pm$ 13.8	15.5	113	0.39
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.49 $\pm$ 0.93	0.379	98.6	-0.02
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.8 $\pm$ 1.7	1.31	104	0.20
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22.4 $\pm$ 4.05	2.68	100	0.01
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.52 $\pm$ 0.63	0.414	102	0.05

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.18 ± 0.13	0.0785	99.2	-0.04
Zinc	µg/l	179 ± 4.18	177 ± 17.1	16.1	99.1	-0.04

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.18 ± 0.23	0.301	101	0.06



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	17.7 $\pm$ 3.5	2.48	107	0.47
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.27 $\pm$ 0.3	0.175	94.4	-0.43
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.1 $\pm$ 1	0.55	92.8	-0.72
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<1 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.53 $\pm$ 1.5	0.668	101	0.16
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	267 $\pm$ 53	48.4	99.4	-0.03
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.33 $\pm$ 0.5	0.178	94.5	-0.76
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.1 $\pm$ 0.4	0.265	95	-0.41
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.05 $\pm$ 0.2	0.125	101	0.10
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	<1 (LOQ) $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	30.3 $\pm$ 6.1	2.74	99.4	-0.07

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.76 $\pm$ 0.2	0.112	95	-0.36

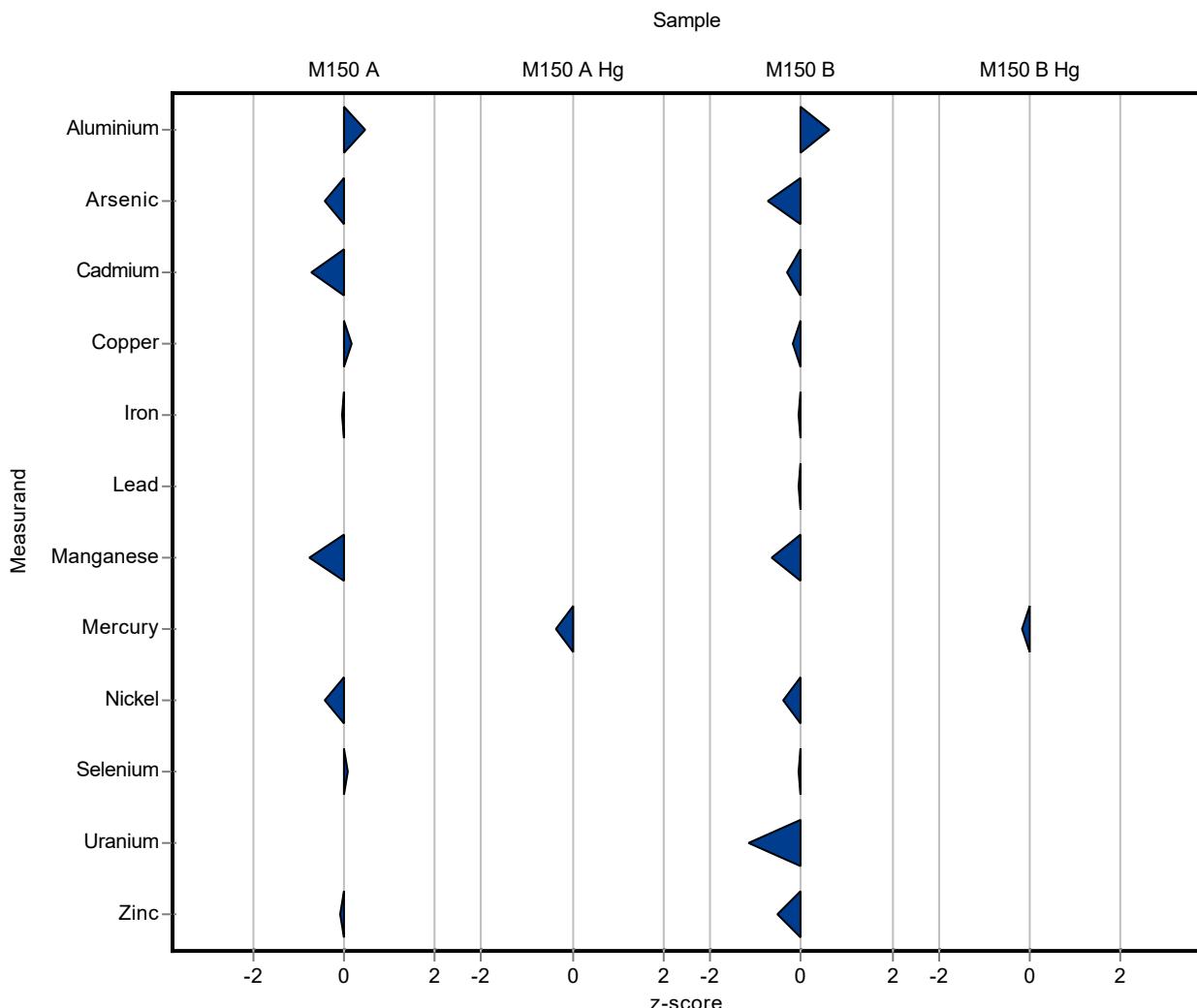
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	187 $\pm$ 37	25.7	109	0.61
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.03 $\pm$ 1.2	0.865	90.7	-0.72
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.57 $\pm$ 0.1	0.0588	97	-0.30
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	75.7 $\pm$ 15	6.92	98.4	-0.18
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	85.3 $\pm$ 17	15.5	99	-0.06
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.5 $\pm$ 0.5	0.379	99	-0.06
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.3 $\pm$ 3.5	1.31	95.4	-0.63
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	21.3 $\pm$ 4.3	2.68	95.3	-0.40
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.43 $\pm$ 0.7	0.414	99.4	-0.05

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.1 ± 0.2	0.0785	92.5	-1.14
Zinc	µg/l	179 ± 4.18	170 ± 34	16.1	95.2	-0.53

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.1 ± 0.4	0.301	97.6	-0.17



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	17.7 $\pm$ 3.5	2.48	107	0.16
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.27 $\pm$ 0.3	0.175	94.4	-0.13
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.1 $\pm$ 1	0.55	92.8	-0.20
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<1 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.53 $\pm$ 1.5	0.668	101	0.04
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	267 $\pm$ 53	48.4	99.4	-0.02
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.33 $\pm$ 0.5	0.178	94.5	-0.14
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.1 $\pm$ 0.4	0.265	95	-0.14
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.05 $\pm$ 0.2	0.125	101	0.03
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	<1 (LOQ) $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	30.3 $\pm$ 6.1	2.74	99.4	-0.02

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.76 $\pm$ 0.2	0.112	95	-0.10

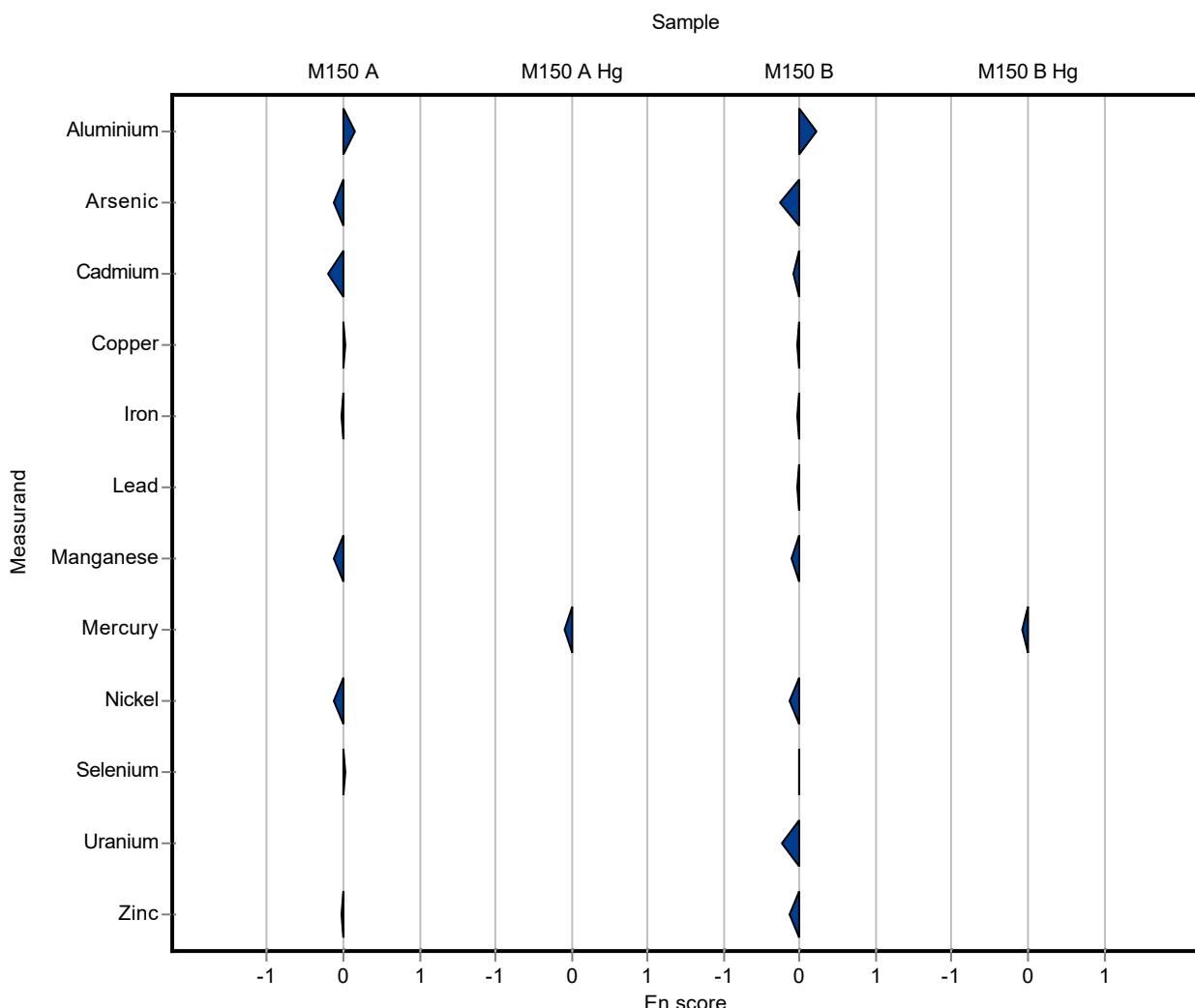
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	187 $\pm$ 37	25.7	109	0.21
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.03 $\pm$ 1.2	0.865	90.7	-0.26
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.57 $\pm$ 0.1	0.0588	97	-0.09
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	75.7 $\pm$ 15	6.92	98.4	-0.04
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	85.3 $\pm$ 17	15.5	99	-0.03
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.5 $\pm$ 0.5	0.379	99	-0.02
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.3 $\pm$ 3.5	1.31	95.4	-0.12
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	21.3 $\pm$ 4.3	2.68	95.3	-0.12
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.43 $\pm$ 0.7	0.414	99.4	-0.02

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.1 ± 0.2	0.0785	92.5	-0.22
Zinc	µg/l	179 ± 4.18	170 ± 34	16.1	95.2	-0.13

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.1 ± 0.4	0.301	97.6	-0.06



Sample: M150A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	16.5 ± 0.665	69.3 ± 1.45	2.48	419	21.30
Arsenic	µg/l	1.35 ± 0.037	8.25 ± 0.11	0.175	613	39.50
Cadmium	µg/l	5.5 ± 0.0883	5 ± 0.03	0.55	90.9	-0.91
Chromium	µg/l	0.913 ± 0.0459	<2.32 (LOQ) ± -	0.0776	-	-
Copper	µg/l	7.42 ± 0.284	9.75 ± 0.12	0.668	131	3.48
Iron	µg/l	269 ± 4.67	267 ± 1.59	48.4	99.4	-0.03
Lead	µg/l	0.562 ± 0.0335	<4.06 (LOQ) ± -	0.0844	-	-
Manganese	µg/l	2.47 ± 0.0899	<2.53 (LOQ) ± -	0.178	-	-
Nickel	µg/l	2.21 ± 0.0769	<7.63 (LOQ) ± -	0.265	-	-
Selenium	µg/l	1.04 ± 0.0472	7.67 ± 0.1	0.125	739	53.20
Uranium	µg/l	0.932 ± 0.0203	- ± -	0.0615	-	-
Zinc	µg/l	30.5 ± 0.763	32.75 ± 0.51	2.74	107	0.82

Sample: M150AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.8 ± 0.0338	2.61 ± 0.26	0.112	326	16.20

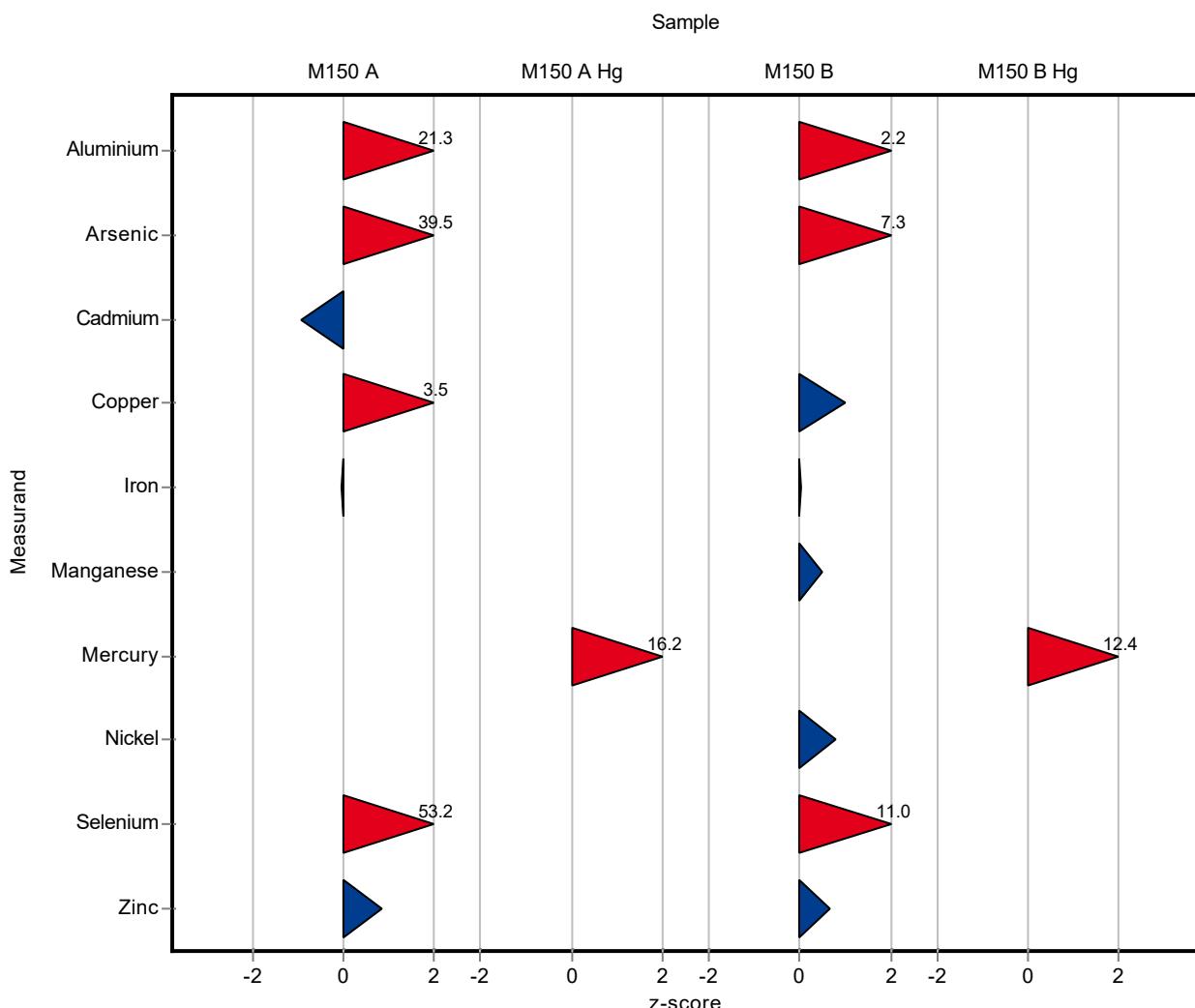
Sample: M150B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	171 ± 3.57	228 ± 4.75	25.7	133	2.21
Arsenic	µg/l	6.65 ± 0.205	13 ± 0.17	0.865	195	7.34
Cadmium	µg/l	0.588 ± 0.0125	<2.03 (LOQ) ± -	0.0588	-	-
Chromium	µg/l	0.718 ± 0.0472	<2.32 (LOQ) ± -	0.061	-	-
Copper	µg/l	76.9 ± 1.7	83.75 ± 1	6.92	109	0.98
Iron	µg/l	86.2 ± 2.34	86.75 ± 0.52	15.5	101	0.04
Lead	µg/l	2.52 ± 0.0972	<4.06 (LOQ) ± -	0.379	-	-
Manganese	µg/l	18.1 ± 0.349	18.75 ± 0.15	1.31	103	0.48
Nickel	µg/l	22.4 ± 0.703	24.5 ± 0.6	2.68	110	0.80
Selenium	µg/l	3.45 ± 0.179	8 ± 0.1	0.414	232	11.00

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-	-
Zinc	µg/l	179 ± 4.18	189 ± 2.92	16.1	106	0.65

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	5.89 ± 0.04	0.301	274	12.40



Sample: M150A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	16.5 ± 0.665	69.3 ± 1.45	2.48	419	17.70
Arsenic	µg/l	1.35 ± 0.037	8.25 ± 0.11	0.175	613	31.00
Cadmium	µg/l	5.5 ± 0.0883	5 ± 0.03	0.55	90.9	-4.67
Chromium	µg/l	0.913 ± 0.0459	<2.32 (LOQ) ± -	0.0776	-	-
Copper	µg/l	7.42 ± 0.284	9.75 ± 0.12	0.668	131	6.26
Iron	µg/l	269 ± 4.67	267 ± 1.59	48.4	99.4	-0.30
Lead	µg/l	0.562 ± 0.0335	<4.06 (LOQ) ± -	0.0844	-	-
Manganese	µg/l	2.47 ± 0.0899	<2.53 (LOQ) ± -	0.178	-	-
Nickel	µg/l	2.21 ± 0.0769	<7.63 (LOQ) ± -	0.265	-	-
Selenium	µg/l	1.04 ± 0.0472	7.67 ± 0.1	0.125	739	32.30
Uranium	µg/l	0.932 ± 0.0203	- ± -	0.0615	-	-
Zinc	µg/l	30.5 ± 0.763	32.75 ± 0.51	2.74	107	1.77

Sample: M150AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.8 ± 0.0338	2.61 ± 0.26	0.112	326	3.47

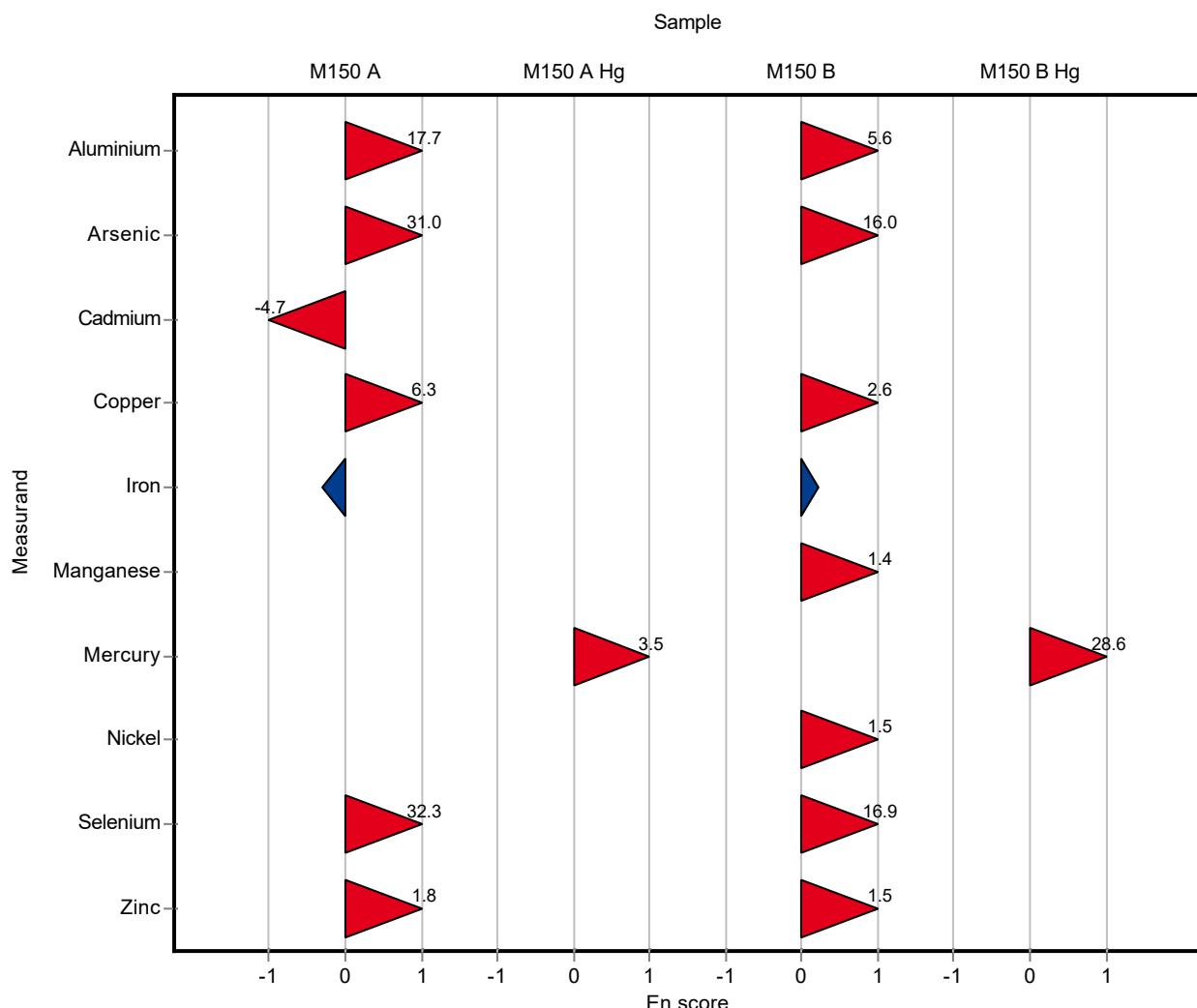
Sample: M150B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	171 ± 3.57	228 ± 4.75	25.7	133	5.59
Arsenic	µg/l	6.65 ± 0.205	13 ± 0.17	0.865	195	16.00
Cadmium	µg/l	0.588 ± 0.0125	<2.03 (LOQ) ± -	0.0588	-	-
Chromium	µg/l	0.718 ± 0.0472	<2.32 (LOQ) ± -	0.061	-	-
Copper	µg/l	76.9 ± 1.7	83.75 ± 1	6.92	109	2.60
Iron	µg/l	86.2 ± 2.34	86.75 ± 0.52	15.5	101	0.23
Lead	µg/l	2.52 ± 0.0972	<4.06 (LOQ) ± -	0.379	-	-
Manganese	µg/l	18.1 ± 0.349	18.75 ± 0.15	1.31	103	1.35
Nickel	µg/l	22.4 ± 0.703	24.5 ± 0.6	2.68	110	1.54
Selenium	µg/l	3.45 ± 0.179	8 ± 0.1	0.414	232	16.90

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-
Zinc	µg/l	179 ± 4.18	189 ± 2.92	16.1	106 1.46

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	5.89 ± 0.04	0.301	274	28.60



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	- $\pm$ -	0.55	-	-
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	- $\pm$ -	0.668	-	-
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOD) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	- $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	- $\pm$ -	25.7	-	-
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	- $\pm$ -	0.0588	-	-
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	- $\pm$ -	6.92	-	-
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	- $\pm$ -	15.5	-	-
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	<3 (LOQ) $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	- $\pm$ -	1.31	-	-
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-	-
Zinc	µg/l	179 ± 4.18	- ± -	16.1	-	-

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	-	-

Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	- $\pm$ -	0.55	-	-
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	- $\pm$ -	0.668	-	-
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOD) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	- $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	- $\pm$ -	25.7	-	-
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	- $\pm$ -	0.0588	-	-
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	- $\pm$ -	6.92	-	-
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	- $\pm$ -	15.5	-	-
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	<3 (LOQ) $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	- $\pm$ -	1.31	-	-
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-
Zinc	µg/l	179 ± 4.18	- ± -	16.1	-

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	-

Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	4 $\pm$ 0.49	0.55	72.8	-2.72
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	5.9 $\pm$ 2.4	0.668	79.5	-2.28
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<5 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	- $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	<5 (LOQ) $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	0.9 $\pm$ 0.44	0.125	86.7	-1.11
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

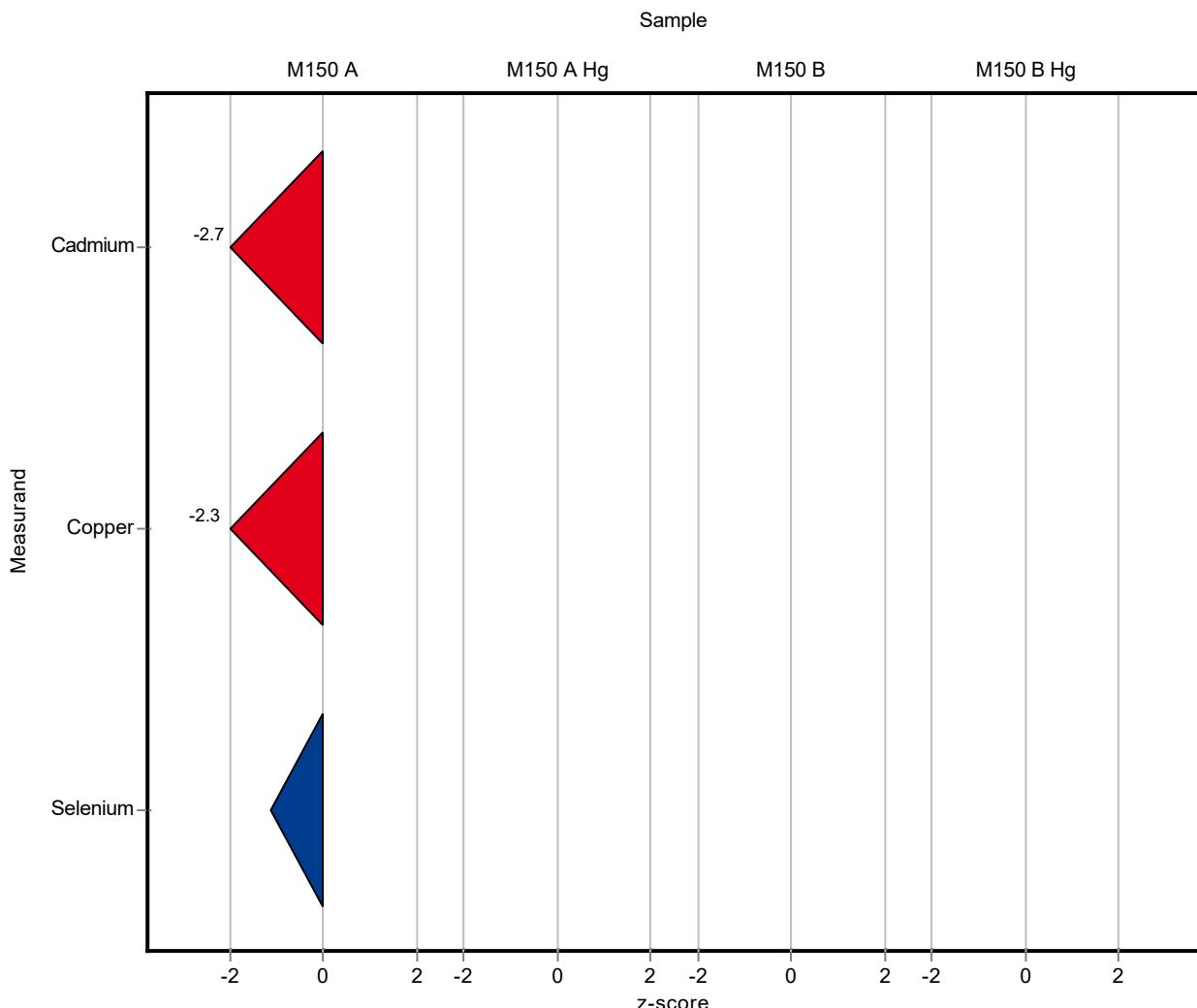
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	- $\pm$ -	25.7	-	-
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	- $\pm$ -	0.0588	-	-
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	- $\pm$ -	6.92	-	-
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	- $\pm$ -	15.5	-	-
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	- $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	- $\pm$ -	1.31	-	-
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	- -
Zinc	µg/l	179 ± 4.18	- ± -	16.1	- -

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	- -



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	4 $\pm$ 0.49	0.55	72.8	-1.52
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	5.9 $\pm$ 2.4	0.668	79.5	-0.32
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<5 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	- $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	<5 (LOQ) $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	0.9 $\pm$ 0.44	0.125	86.7	-0.16
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

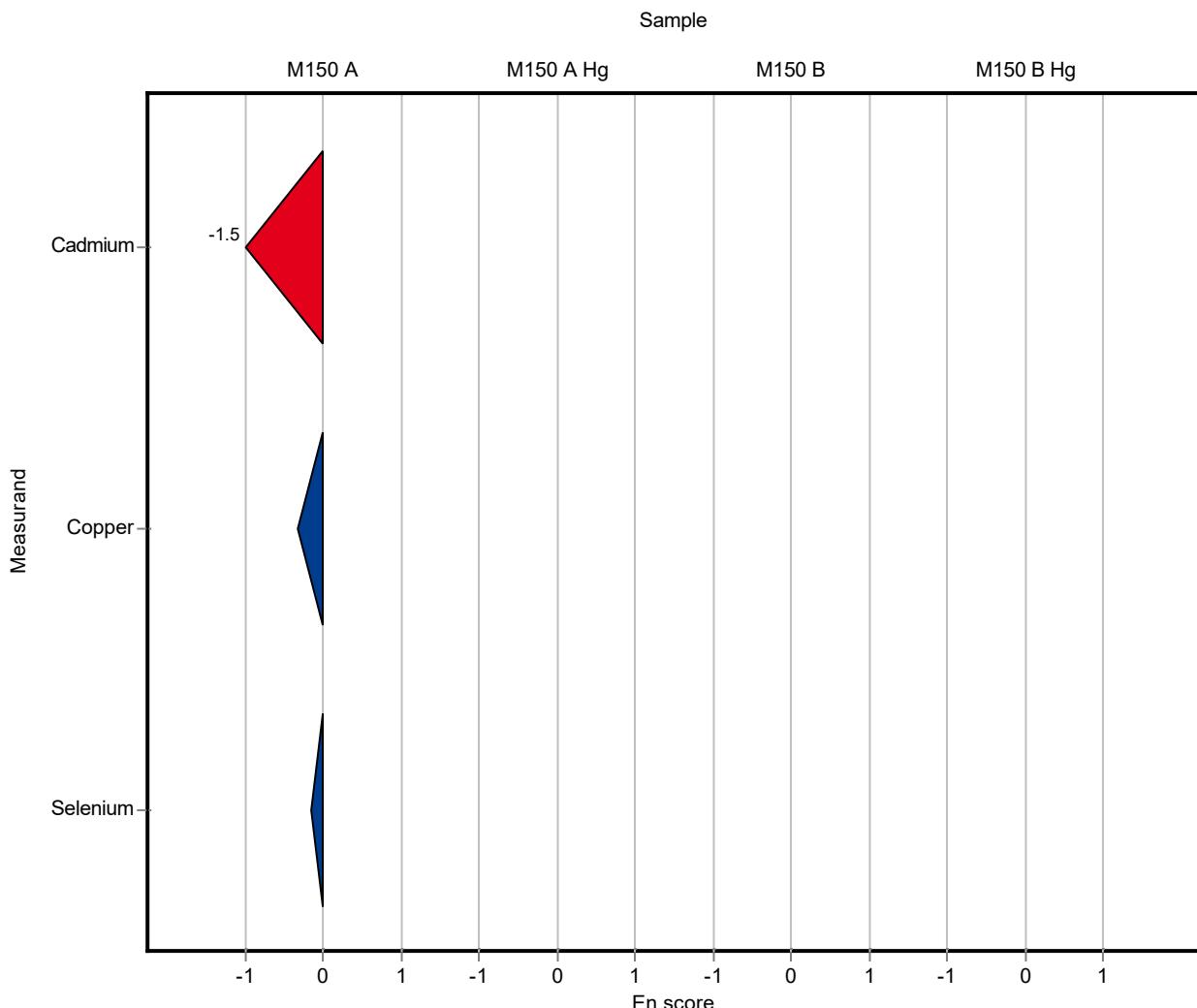
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	- $\pm$ -	25.7	-	-
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	- $\pm$ -	0.0588	-	-
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	- $\pm$ -	6.92	-	-
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	- $\pm$ -	15.5	-	-
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	- $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	- $\pm$ -	1.31	-	-
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	- -
Zinc	µg/l	179 ± 4.18	- ± -	16.1	- -

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	- -



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.4 $\pm$ 1.3	2.48	99.1	-0.06
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.7 $\pm$ 0.3	0.175	126	2.03
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.6 $\pm$ 0.1	0.55	102	0.18
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<5 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.7 $\pm$ 1.3	0.668	104	0.41
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	281.8 $\pm$ 6.6	48.4	105	0.27
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<4 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.4 $\pm$ 0.2	0.265	109	0.72
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.2 $\pm$ 0.2	0.125	116	1.30
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	<2 (LOQ) $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	31.4 $\pm$ 1.5	2.74	103	0.33

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.79 $\pm$ 0.02	0.112	98.7	-0.09

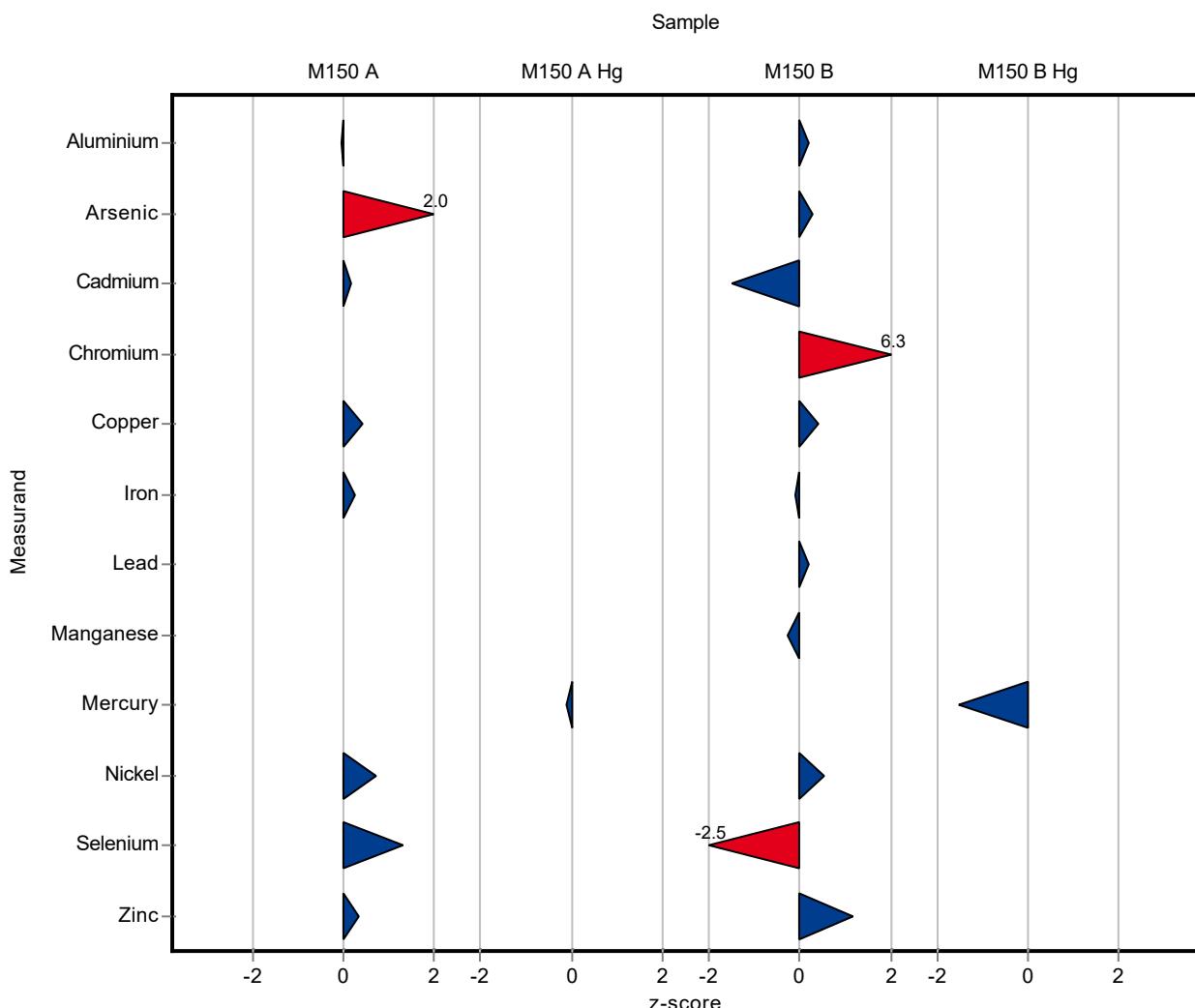
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	176 $\pm$ 3	25.7	103	0.18
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.9 $\pm$ 0.4	0.865	104	0.29
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.5 $\pm$ 0.01	0.0588	85.1	-1.49
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	1.1 $\pm$ 0.5	0.061	153	6.26
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	79.8 $\pm$ 2.2	6.92	104	0.41
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	84.7 $\pm$ 1.1	15.5	98.3	-0.10
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.6 $\pm$ 0.2	0.379	103	0.20
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.8 $\pm$ 0.6	1.31	98.2	-0.25
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	23.8 $\pm$ 0.4	2.68	106	0.54
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	2.4 $\pm$ 0.07	0.414	69.5	-2.54

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	<2 (LOQ) ± -	0.0785	-	-
Zinc	µg/l	179 ± 4.18	197 ± 7	16.1	110	1.15

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	1.7 ± 0.05	0.301	79	-1.50



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.4 $\pm$ 1.3	2.48	99.1	-0.05
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.7 $\pm$ 0.3	0.175	126	0.59
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.6 $\pm$ 0.1	0.55	102	0.47
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<5 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.7 $\pm$ 1.3	0.668	104	0.11
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	281.8 $\pm$ 6.6	48.4	105	0.94
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<4 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.4 $\pm$ 0.2	0.265	109	0.47
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.2 $\pm$ 0.2	0.125	116	0.40
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	<2 (LOQ) $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	31.4 $\pm$ 1.5	2.74	103	0.29

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.79 $\pm$ 0.02	0.112	98.7	-0.20

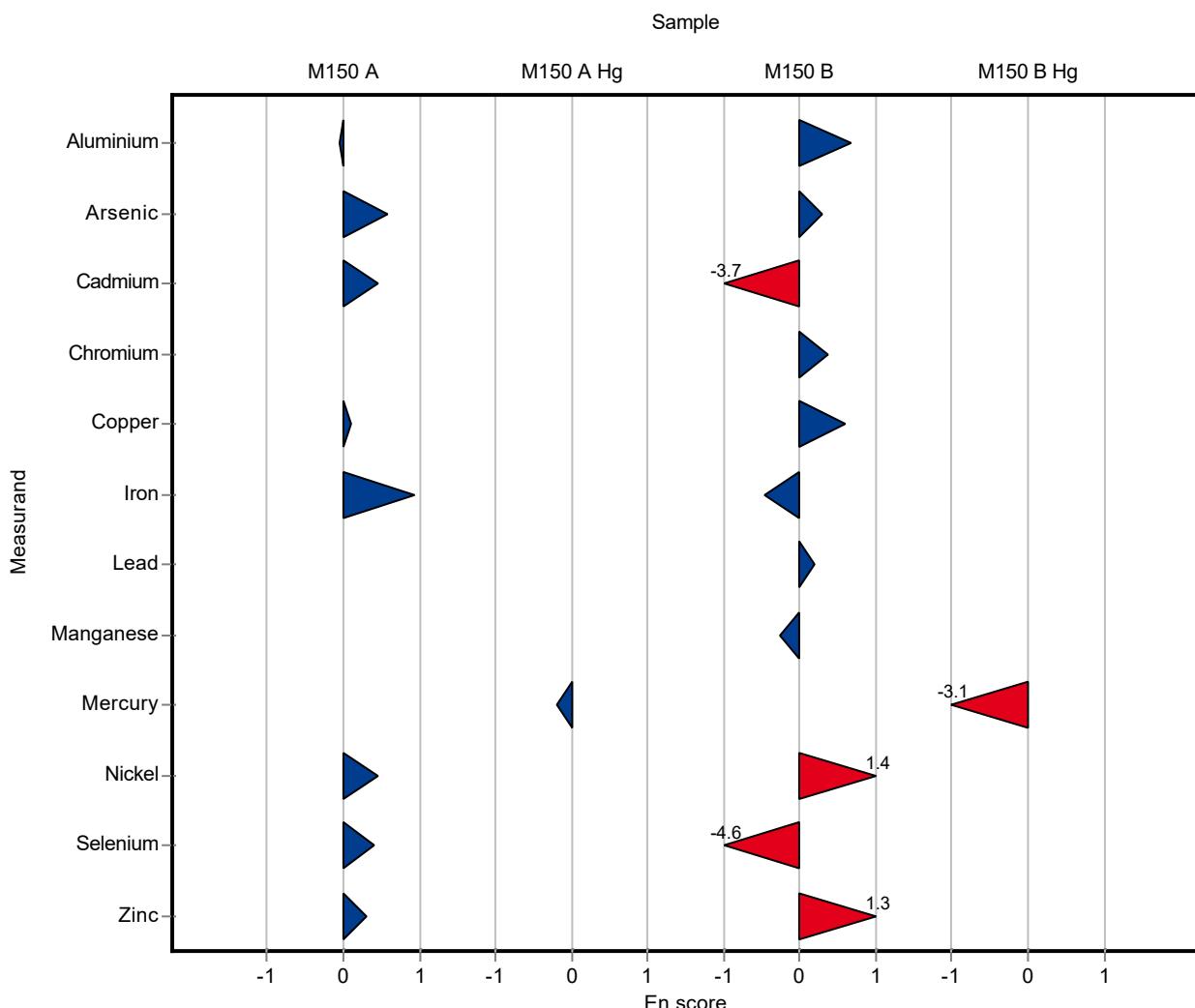
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	176 $\pm$ 3	25.7	103	0.68
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.9 $\pm$ 0.4	0.865	104	0.30
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.5 $\pm$ 0.01	0.0588	85.1	-3.72
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	1.1 $\pm$ 0.5	0.061	153	0.38
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	79.8 $\pm$ 2.2	6.92	104	0.61
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	84.7 $\pm$ 1.1	15.5	98.3	-0.46
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.6 $\pm$ 0.2	0.379	103	0.18
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.8 $\pm$ 0.6	1.31	98.2	-0.26
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	23.8 $\pm$ 0.4	2.68	106	1.35
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	2.4 $\pm$ 0.07	0.414	69.5	-4.62

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	<2 (LOQ) ± -	0.0785	-
Zinc	µg/l	179 ± 4.18	197 ± 7	16.1	110 1.26

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	1.7 ± 0.05	0.301	79	-3.14



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.9 $\pm$ 3.01	2.48	102	0.14
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.35 $\pm$ 0.24	0.175	100	0.03
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.49 $\pm$ 0.99	0.55	99.9	-0.01
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.922 $\pm$ 0.166	0.0776	101	0.12
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	8.27 $\pm$ 1.49	0.668	111	1.27
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	278 $\pm$ 50	48.4	103	0.19
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.599 $\pm$ 0.108	0.0844	107	0.43
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<5 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.38 $\pm$ 0.43	0.265	108	0.64
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.08 $\pm$ 0.19	0.125	104	0.34
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.956 $\pm$ 0.172	0.0615	103	0.38
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	32 $\pm$ 5.76	2.74	105	0.55

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.858 $\pm$ 0.154	0.112	107	0.52

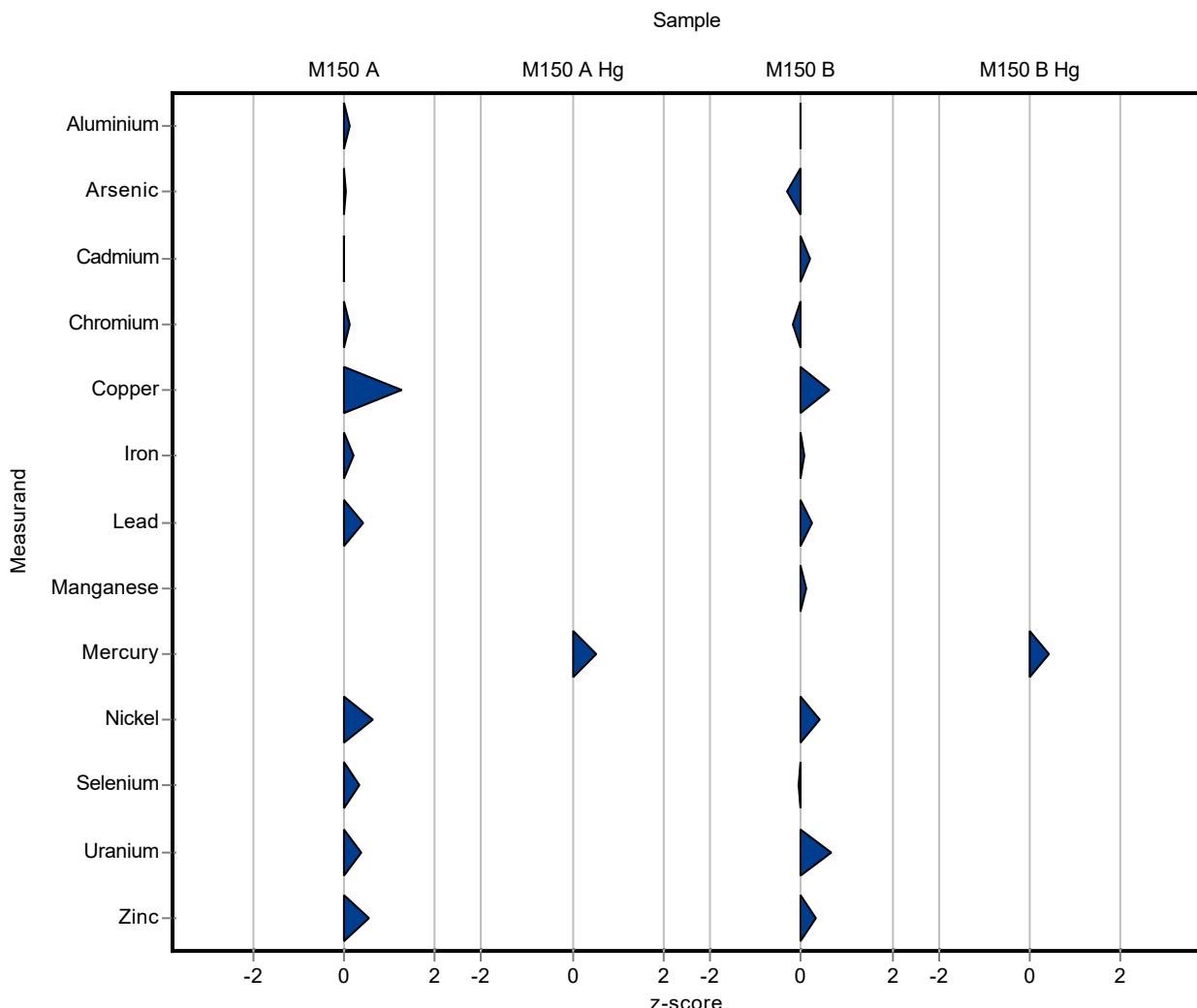
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	171 $\pm$ 31	25.7	99.9	-0.01
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.4 $\pm$ 1.15	0.865	96.2	-0.29
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.599 $\pm$ 0.108	0.0588	102	0.19
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.707 $\pm$ 0.127	0.061	98.5	-0.18
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	81.2 $\pm$ 14.6	6.92	106	0.62
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	87.1 $\pm$ 15.7	15.5	101	0.06
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.61 $\pm$ 0.47	0.379	103	0.23
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.3 $\pm$ 3.29	1.31	101	0.13
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	23.4 $\pm$ 4.21	2.68	105	0.39
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.42 $\pm$ 0.62	0.414	99.1	-0.08

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.24 ± 0.22	0.0785	104	0.64
Zinc	µg/l	179 ± 4.18	184 ± 33.1	16.1	103	0.34

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.28 ± 0.41	0.301	106	0.43



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.9 $\pm$ 3.01	2.48	102	0.06
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.35 $\pm$ 0.24	0.175	100	0.01
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.49 $\pm$ 0.99	0.55	99.9	0.00
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.922 $\pm$ 0.166	0.0776	101	0.03
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	8.27 $\pm$ 1.49	0.668	111	0.28
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	278 $\pm$ 50	48.4	103	0.09
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.599 $\pm$ 0.108	0.0844	107	0.17
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<5 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.38 $\pm$ 0.43	0.265	108	0.20
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.08 $\pm$ 0.19	0.125	104	0.11
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.956 $\pm$ 0.172	0.0615	103	0.07
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	32 $\pm$ 5.76	2.74	105	0.13

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.858 $\pm$ 0.154	0.112	107	0.19

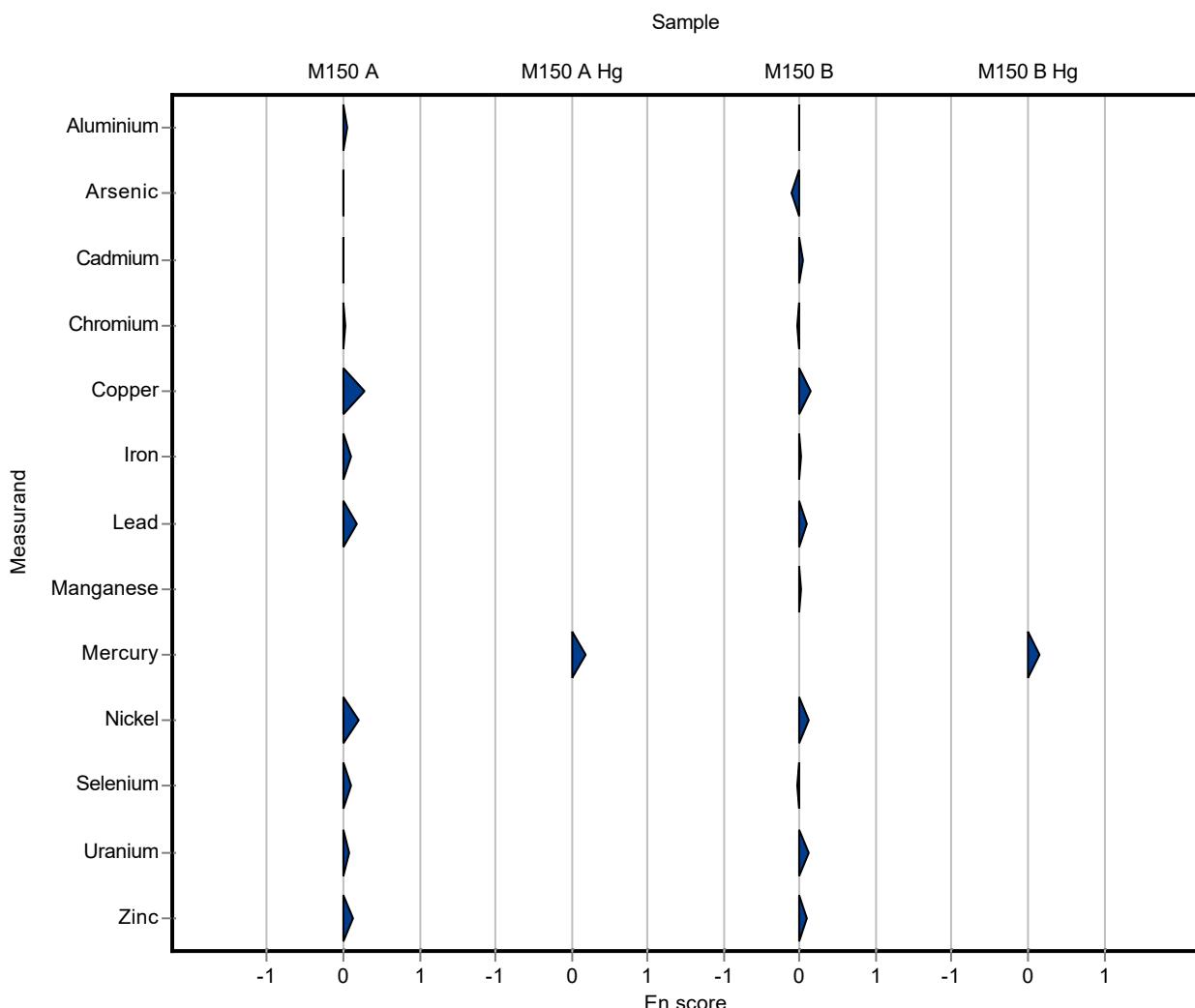
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	171 $\pm$ 31	25.7	99.9	0.00
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.4 $\pm$ 1.15	0.865	96.2	-0.11
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.599 $\pm$ 0.108	0.0588	102	0.05
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.707 $\pm$ 0.127	0.061	98.5	-0.04
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	81.2 $\pm$ 14.6	6.92	106	0.15
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	87.1 $\pm$ 15.7	15.5	101	0.03
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.61 $\pm$ 0.47	0.379	103	0.09
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.3 $\pm$ 3.29	1.31	101	0.03
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	23.4 $\pm$ 4.21	2.68	105	0.12
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.42 $\pm$ 0.62	0.414	99.1	-0.03

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.24 ± 0.22	0.0785	104 0.11
Zinc	µg/l	179 ± 4.18	184 ± 33.1	16.1	103 0.08

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.28 ± 0.41	0.301	106 0.16



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	21 $\pm$ 2.1	2.48	127	1.79
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.3 $\pm$ 0.156	0.175	96.6	-0.26
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.3 $\pm$ 0.424	0.55	96.4	-0.36
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.9 $\pm$ 0.108	0.0776	98.6	-0.16
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.7 $\pm$ 0.616	0.668	104	0.41
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	269 $\pm$ 69.94	48.4	100	0.01
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.7 $\pm$ 0.056	0.0844	124	1.63
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	3 $\pm$ 0.3	0.178	122	3.01
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.3 $\pm$ 0.23	0.265	104	0.34
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.1 $\pm$ 0.165	0.125	106	0.50
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	1.02 $\pm$ 0.051	0.0615	109	1.42
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	29 $\pm$ 2.9	2.74	95.1	-0.54

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.72 $\pm$ 0.0864	0.112	90	-0.72

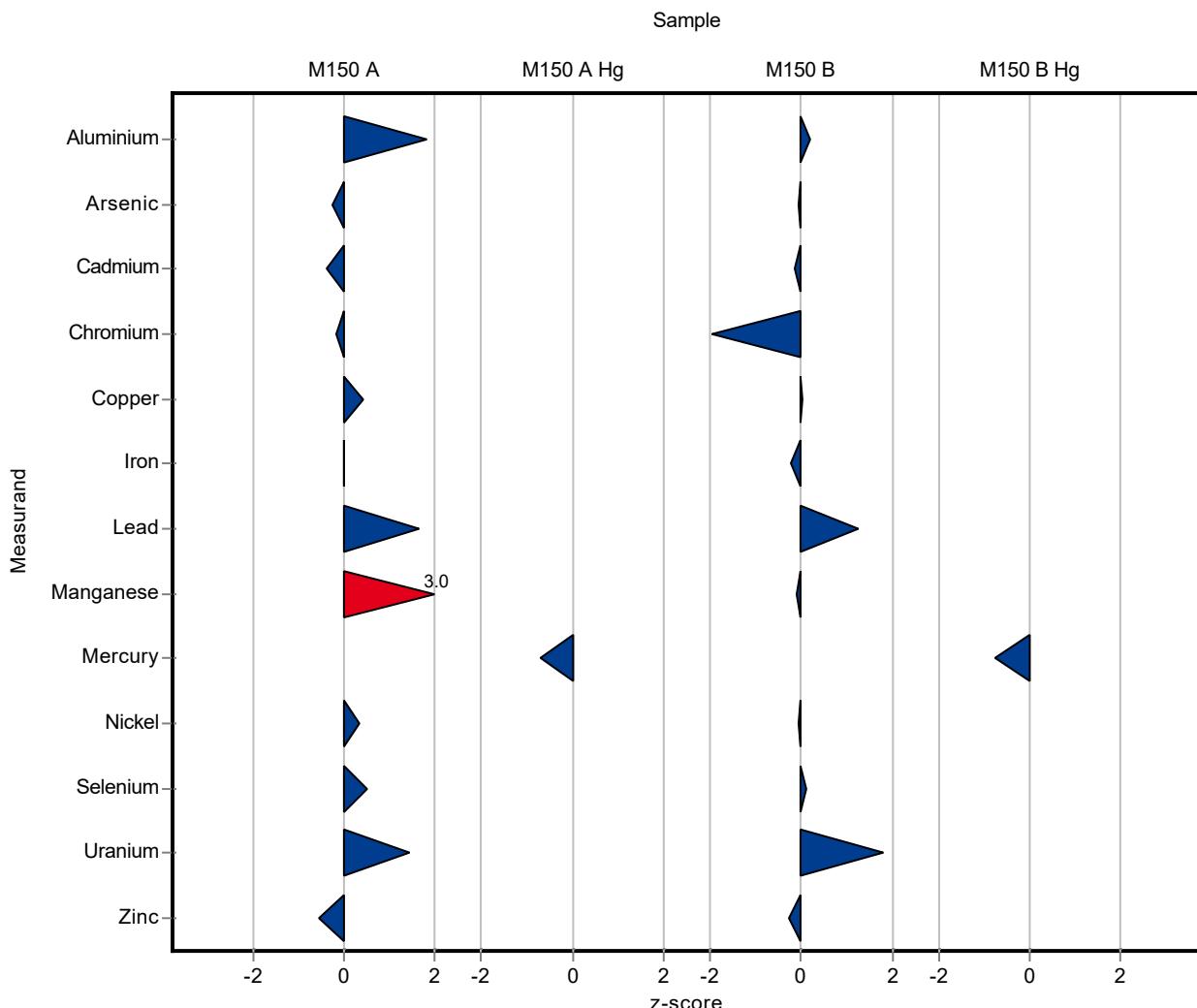
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	176 $\pm$ 17.6	25.7	103	0.18
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.6 $\pm$ 0.792	0.865	99.2	-0.06
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.58 $\pm$ 0.0464	0.0588	98.7	-0.13
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.6 $\pm$ 0.072	0.061	83.6	-1.94
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	77 $\pm$ 6.16	6.92	100	0.01
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	83 $\pm$ 21.58	15.5	96.3	-0.20
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	3 $\pm$ 0.24	0.379	119	1.26
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18 $\pm$ 1.8	1.31	99.3	-0.10
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22.2 $\pm$ 2.22	2.68	99.3	-0.06
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.5 $\pm$ 0.525	0.414	101	0.12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.33 ± 0.067	0.0785	112	1.79
Zinc	µg/l	179 ± 4.18	174 ± 17.4	16.1	97.5	-0.28

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	1.92 ± 0.2304	0.301	89.2	-0.77



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	21 $\pm$ 2.1	2.48	127	1.05
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.3 $\pm$ 0.156	0.175	96.6	-0.14
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.3 $\pm$ 0.424	0.55	96.4	-0.23
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.9 $\pm$ 0.108	0.0776	98.6	-0.06
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.7 $\pm$ 0.616	0.668	104	0.22
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	269 $\pm$ 69.94	48.4	100	0.00
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.7 $\pm$ 0.056	0.0844	124	1.18
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	3 $\pm$ 0.3	0.178	122	0.88
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.3 $\pm$ 0.23	0.265	104	0.19
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.1 $\pm$ 0.165	0.125	106	0.19
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	1.02 $\pm$ 0.051	0.0615	109	0.84
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	29 $\pm$ 2.9	2.74	95.1	-0.26

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.72 $\pm$ 0.0864	0.112	90	-0.46

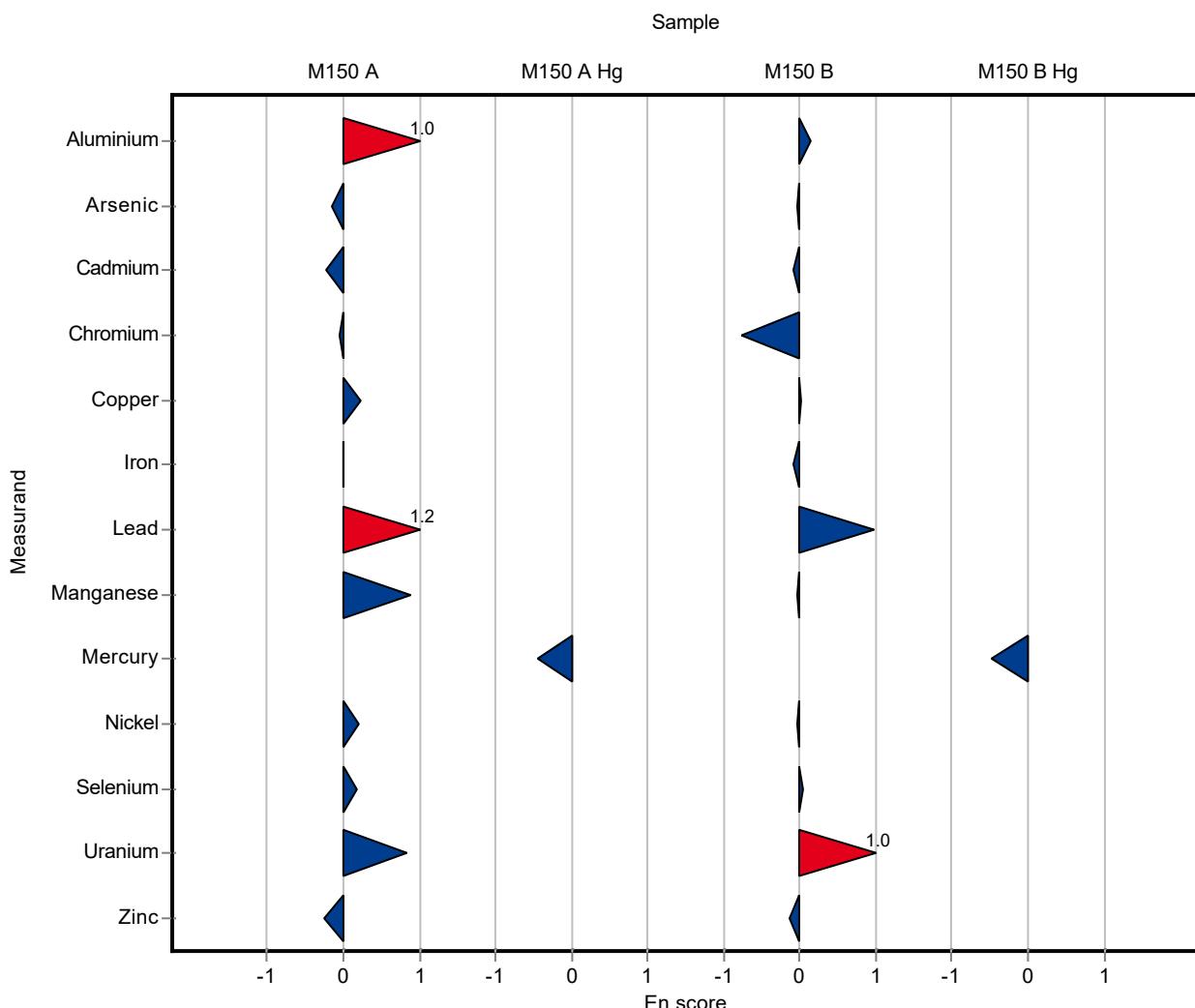
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	176 $\pm$ 17.6	25.7	103	0.13
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.6 $\pm$ 0.792	0.865	99.2	-0.03
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.58 $\pm$ 0.0464	0.0588	98.7	-0.08
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.6 $\pm$ 0.072	0.061	83.6	-0.78
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	77 $\pm$ 6.16	6.92	100	0.01
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	83 $\pm$ 21.58	15.5	96.3	-0.07
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	3 $\pm$ 0.24	0.379	119	0.97
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18 $\pm$ 1.8	1.31	99.3	-0.04
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22.2 $\pm$ 2.22	2.68	99.3	-0.04
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.5 $\pm$ 0.525	0.414	101	0.05

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.33 ± 0.067	0.0785	112 1.01
Zinc	µg/l	179 ± 4.18	174 ± 17.4	16.1	97.5 -0.13

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	1.92 ± 0.2304	0.301	89.2 -0.49



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	17.8 $\pm$ 4.5	2.48	108	0.51
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	- $\pm$ -	0.55	-	-
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	- $\pm$ -	0.668	-	-
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	260.9 $\pm$ 31.3	48.4	97.1	-0.16
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	- $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<10 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

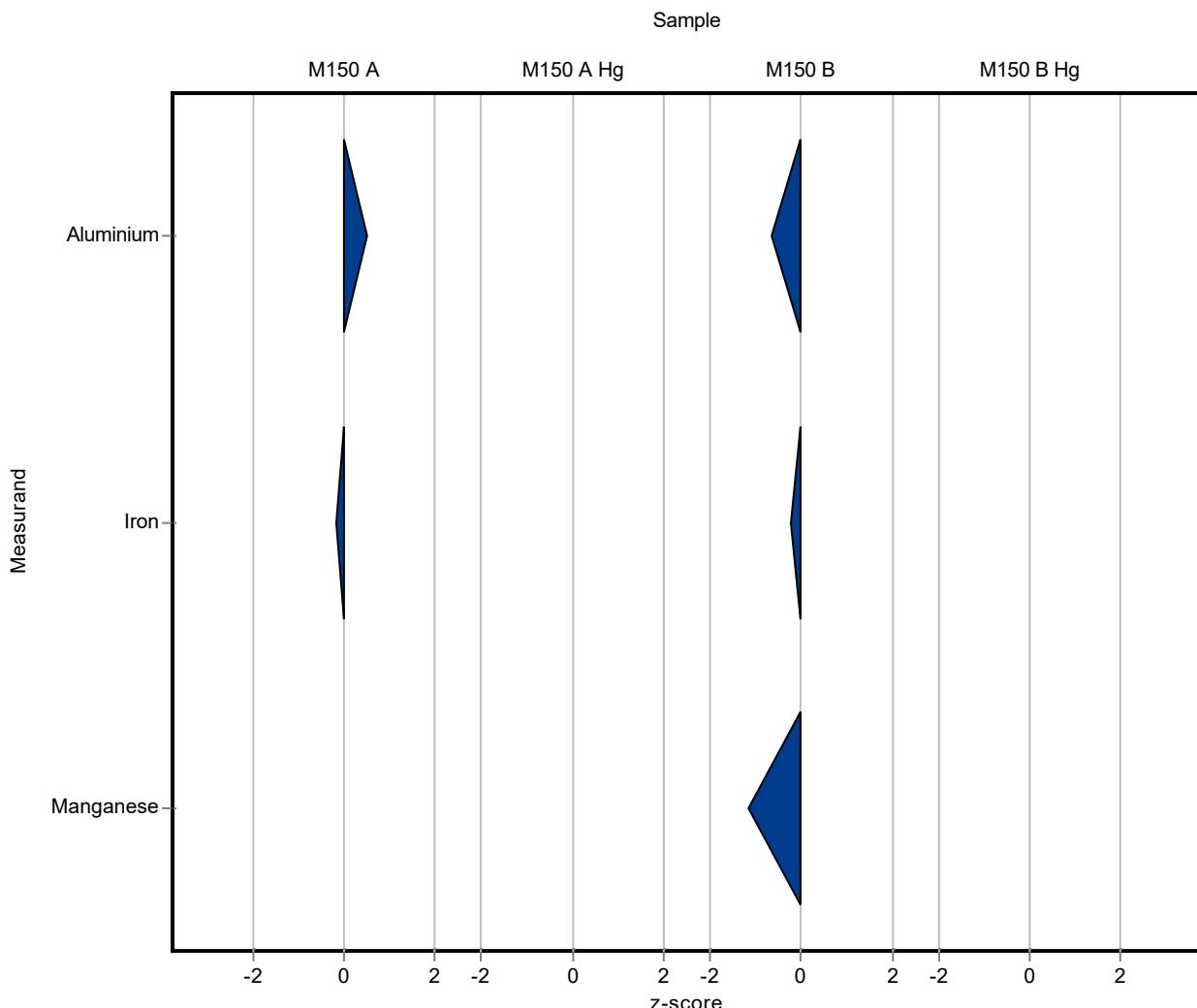
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	154.4 $\pm$ 38.6	25.7	90.2	-0.66
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	- $\pm$ -	0.0588	-	-
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	- $\pm$ -	6.92	-	-
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	82.4 $\pm$ 9.9	15.5	95.6	-0.24
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	- $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	16.6 $\pm$ 2.7	1.31	91.6	-1.17
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	- -
Zinc	µg/l	179 ± 4.18	- ± -	16.1	- -

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	- -



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	17.8 $\pm$ 4.5	2.48	108	0.14
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	- $\pm$ -	0.55	-	-
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	- $\pm$ -	0.668	-	-
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	260.9 $\pm$ 31.3	48.4	97.1	-0.12
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	- $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<10 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

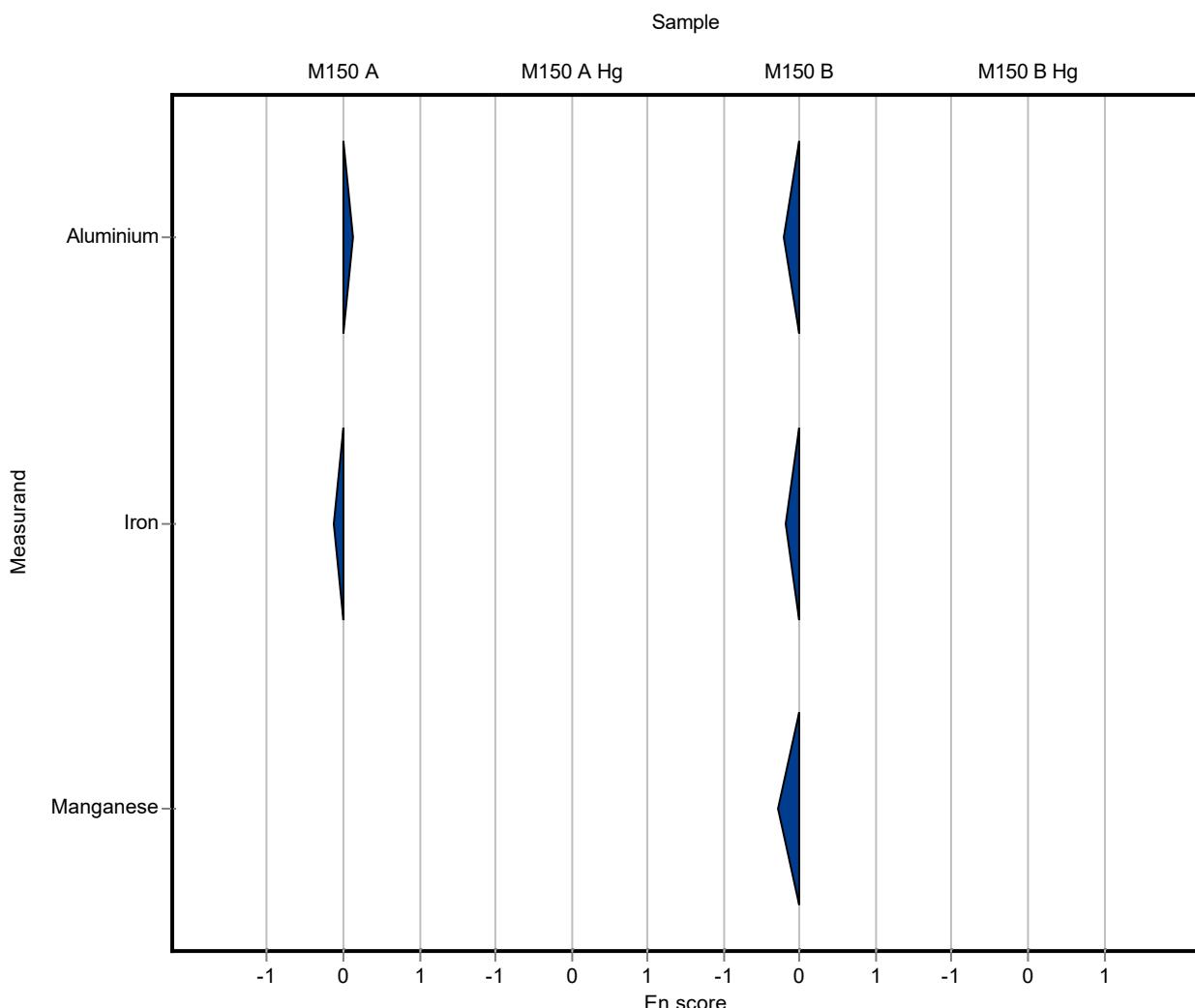
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	154.4 $\pm$ 38.6	25.7	90.2	-0.22
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	- $\pm$ -	0.0588	-	-
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	- $\pm$ -	6.92	-	-
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	82.4 $\pm$ 9.9	15.5	95.6	-0.19
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	- $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	16.6 $\pm$ 2.7	1.31	91.6	-0.28
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-
Zinc	µg/l	179 ± 4.18	- ± -	16.1	-

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	-



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.4 $\pm$ 0.82	2.48	99.1	-0.06
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.33 $\pm$ 0.08	0.175	98.9	-0.09
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.24 $\pm$ 0.21	0.55	95.3	-0.47
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.863 $\pm$ 0.078	0.0776	94.6	-0.64
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.4 $\pm$ 0.44	0.668	99.7	-0.04
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	261 $\pm$ 13.1	48.4	97.1	-0.16
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.558 $\pm$ 0.05	0.0844	99.2	-0.05
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.83 $\pm$ 0.17	0.178	115	2.05
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.13 $\pm$ 0.11	0.265	96.4	-0.30
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	0.9 $\pm$ 0.1	0.125	86.7	-1.11
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.881 $\pm$ 0.044	0.0615	94.5	-0.83
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	29.4 $\pm$ 1.47	2.74	96.4	-0.40

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.799 $\pm$ 0.096	0.112	99.8	-0.01

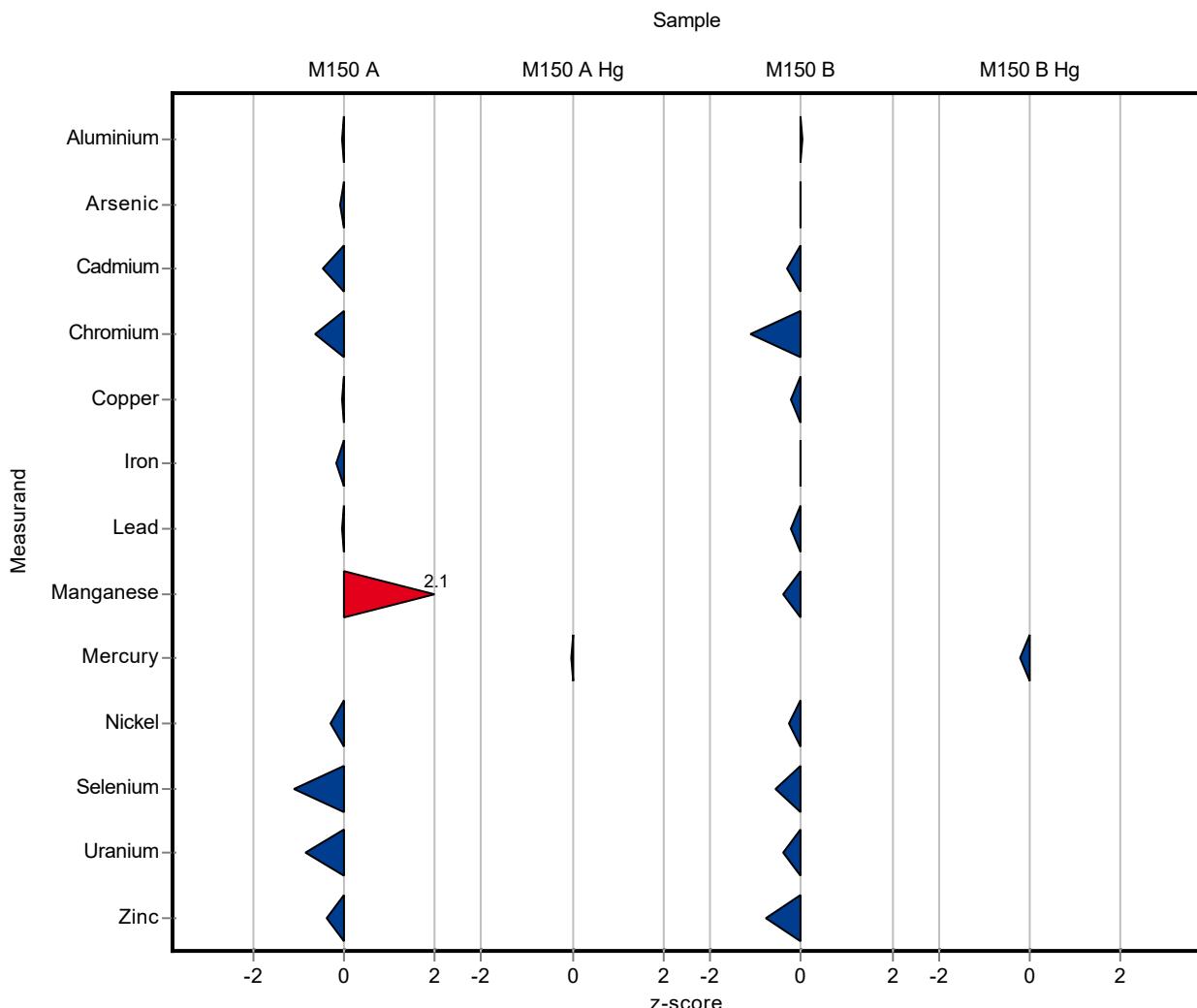
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	172 $\pm$ 8.6	25.7	100	0.03
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.63 $\pm$ 0.4	0.865	99.7	-0.02
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.569 $\pm$ 0.023	0.0588	96.8	-0.32
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.65 $\pm$ 0.059	0.061	90.5	-1.12
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	75.4 $\pm$ 4.52	6.92	98	-0.22
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	86.2 $\pm$ 4.31	15.5	100	0.00
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.44 $\pm$ 0.22	0.379	96.7	-0.22
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.6 $\pm$ 1.06	1.31	97.1	-0.41
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	21.6 $\pm$ 1.08	2.68	96.6	-0.28
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.21 $\pm$ 0.35	0.414	93	-0.58

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.16 ± 0.058	0.0785	97.5	-0.38
Zinc	µg/l	179 ± 4.18	166 ± 8.3	16.1	93	-0.78

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.09 ± 0.25	0.301	97.1	-0.20



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.4 $\pm$ 0.82	2.48	99.1	-0.08
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.33 $\pm$ 0.08	0.175	98.9	-0.09
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.24 $\pm$ 0.21	0.55	95.3	-0.60
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.863 $\pm$ 0.078	0.0776	94.6	-0.30
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.4 $\pm$ 0.44	0.668	99.7	-0.03
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	261 $\pm$ 13.1	48.4	97.1	-0.29
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.558 $\pm$ 0.05	0.0844	99.2	-0.04
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.83 $\pm$ 0.17	0.178	115	1.04
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.13 $\pm$ 0.11	0.265	96.4	-0.34
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	0.9 $\pm$ 0.1	0.125	86.7	-0.67
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.881 $\pm$ 0.044	0.0615	94.5	-0.57
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	29.4 $\pm$ 1.47	2.74	96.4	-0.36

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.799 $\pm$ 0.096	0.112	99.8	-0.01

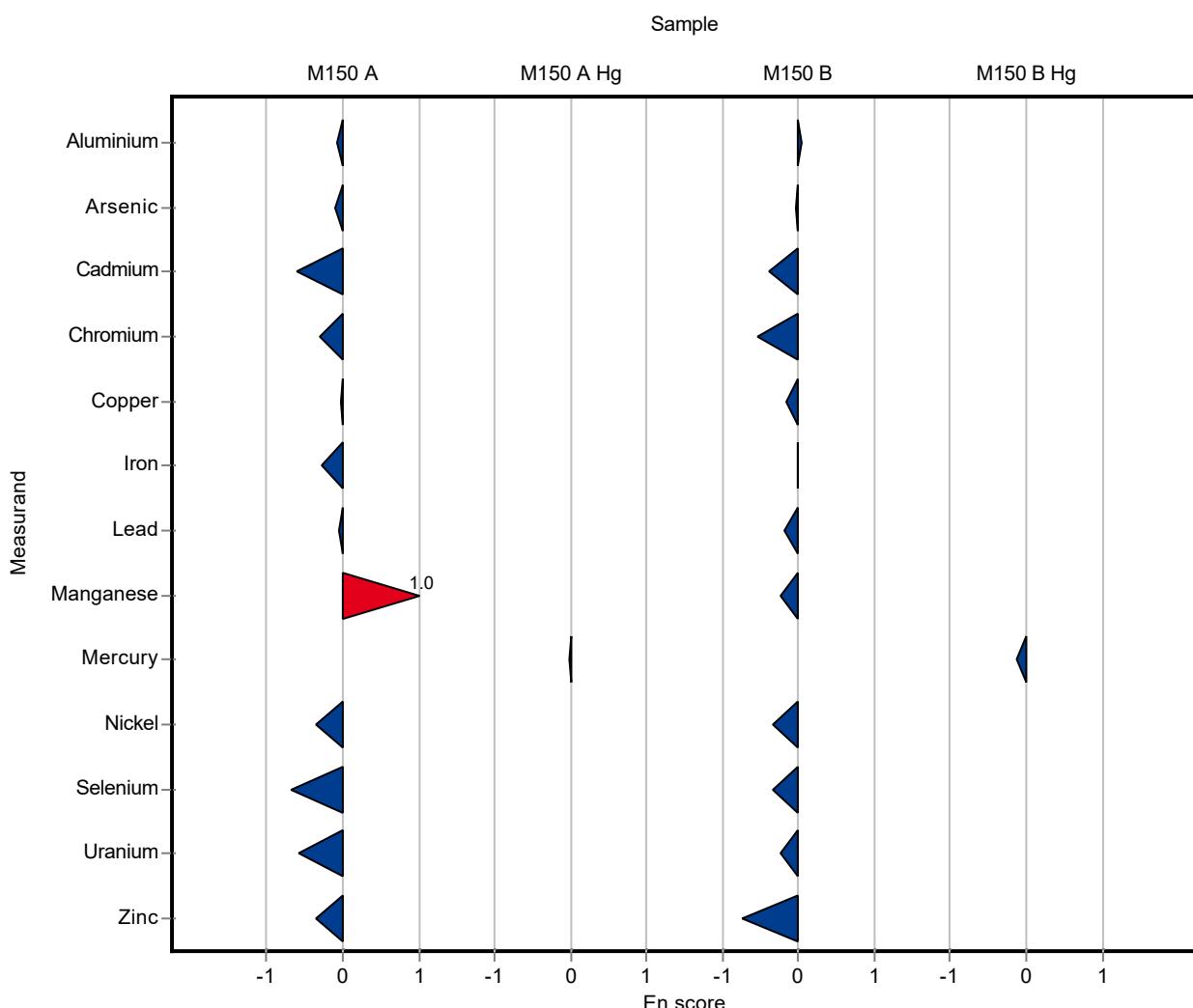
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	172 $\pm$ 8.6	25.7	100	0.04
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.63 $\pm$ 0.4	0.865	99.7	-0.03
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.569 $\pm$ 0.023	0.0588	96.8	-0.39
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.65 $\pm$ 0.059	0.061	90.5	-0.54
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	75.4 $\pm$ 4.52	6.92	98	-0.17
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	86.2 $\pm$ 4.31	15.5	100	0.00
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.44 $\pm$ 0.22	0.379	96.7	-0.19
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.6 $\pm$ 1.06	1.31	97.1	-0.25
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	21.6 $\pm$ 1.08	2.68	96.6	-0.33
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.21 $\pm$ 0.35	0.414	93	-0.33

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.16 ± 0.058	0.0785	97.5	-0.25
Zinc	µg/l	179 ± 4.18	166 ± 8.3	16.1	93	-0.73

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.09 ± 0.25	0.301	97.1	-0.12



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	14.99 $\pm$ 1.5	2.48	90.6	-0.63
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	3.09 $\pm$ 0.7	0.175	230	9.98
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.57 $\pm$ 1	0.55	101	0.13
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	1.5796 $\pm$ 0.2	0.0776	173	8.60
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.56 $\pm$ 1	0.668	102	0.20
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	268.86 $\pm$ 25	48.4	100	0.00
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.57 $\pm$ 0.05	0.0844	101	0.09
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.31 $\pm$ 0.25	0.178	93.7	-0.88
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	7.39 $\pm$ 1	0.265	334	19.50
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	0.914 $\pm$ 0.2	0.125	88	-1.00
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.957 $\pm$ 0.1	0.0615	103	0.40
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	31.72 $\pm$ 3	2.74	104	0.45

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.785 $\pm$ 0.08	0.112	98.1	-0.14

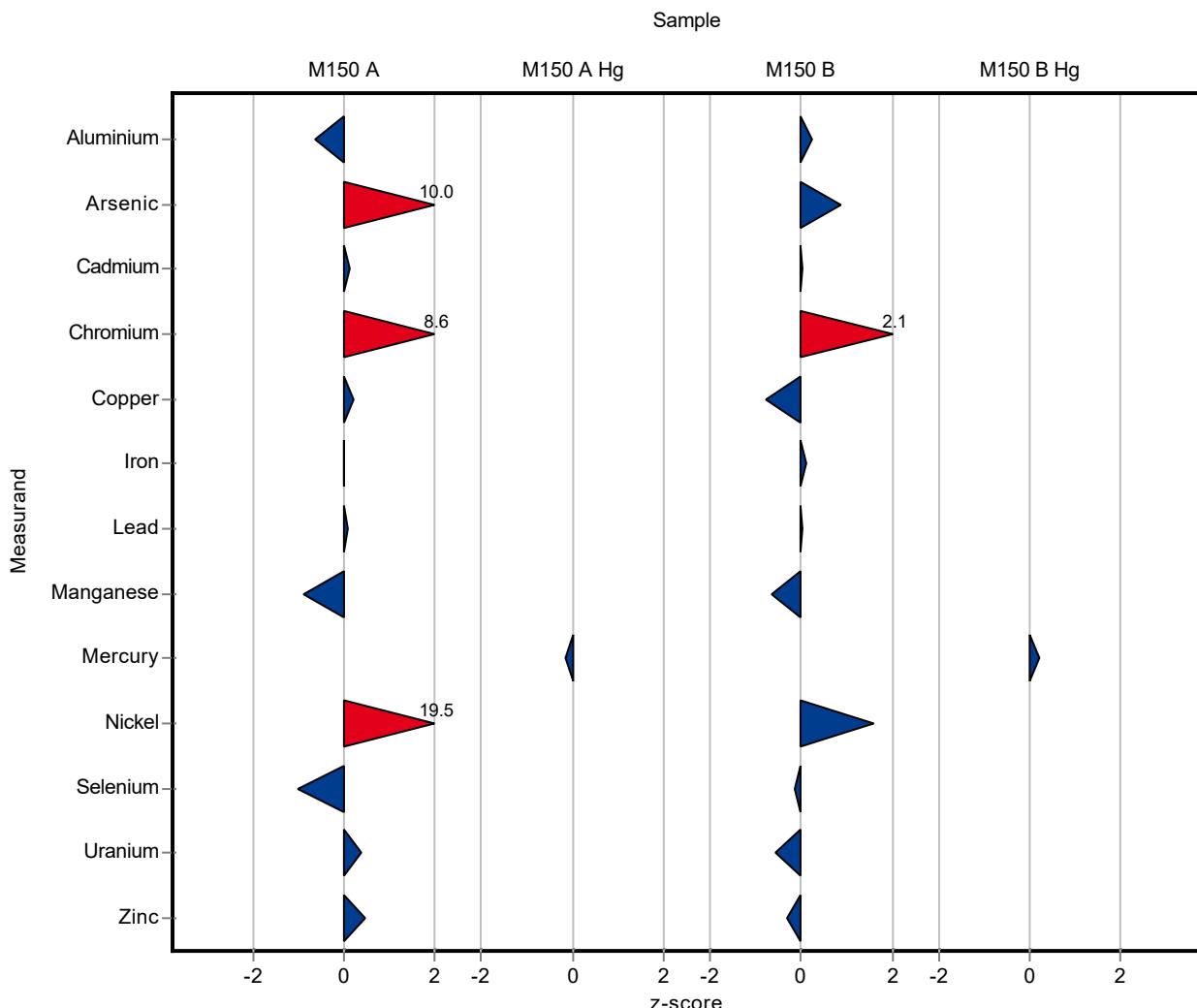
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	177.79 $\pm$ 20	25.7	104	0.26
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	7.42 $\pm$ 1.5	0.865	112	0.89
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.59 $\pm$ 0.1	0.0588	100	0.04
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.8488 $\pm$ 0.1	0.061	118	2.14
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	71.72 $\pm$ 8	6.92	93.2	-0.75
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	87.94 $\pm$ 9	15.5	102	0.11
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.53 $\pm$ 0.25	0.379	100	0.02
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.29 $\pm$ 2	1.31	95.4	-0.64
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	26.66 $\pm$ 2.5	2.68	119	1.60
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.39 $\pm$ 0.7	0.414	98.2	-0.15

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.1473 ± 0.13	0.0785	96.4	-0.54
Zinc	µg/l	179 ± 4.18	173.56 ± 20	16.1	97.2	-0.31

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.22 ± 0.25	0.301	103	0.23



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	14.99 $\pm$ 1.5	2.48	90.6	-0.51
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	3.09 $\pm$ 0.7	0.175	230	1.25
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.57 $\pm$ 1	0.55	101	0.04
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	1.5796 $\pm$ 0.2	0.0776	173	1.66
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.56 $\pm$ 1	0.668	102	0.07
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	268.86 $\pm$ 25	48.4	100	0.00
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.57 $\pm$ 0.05	0.0844	101	0.07
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.31 $\pm$ 0.25	0.178	93.7	-0.31
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	7.39 $\pm$ 1	0.265	334	2.59
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	0.914 $\pm$ 0.2	0.125	88	-0.31
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.957 $\pm$ 0.1	0.0615	103	0.12
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	31.72 $\pm$ 3	2.74	104	0.20

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.785 $\pm$ 0.08	0.112	98.1	-0.09

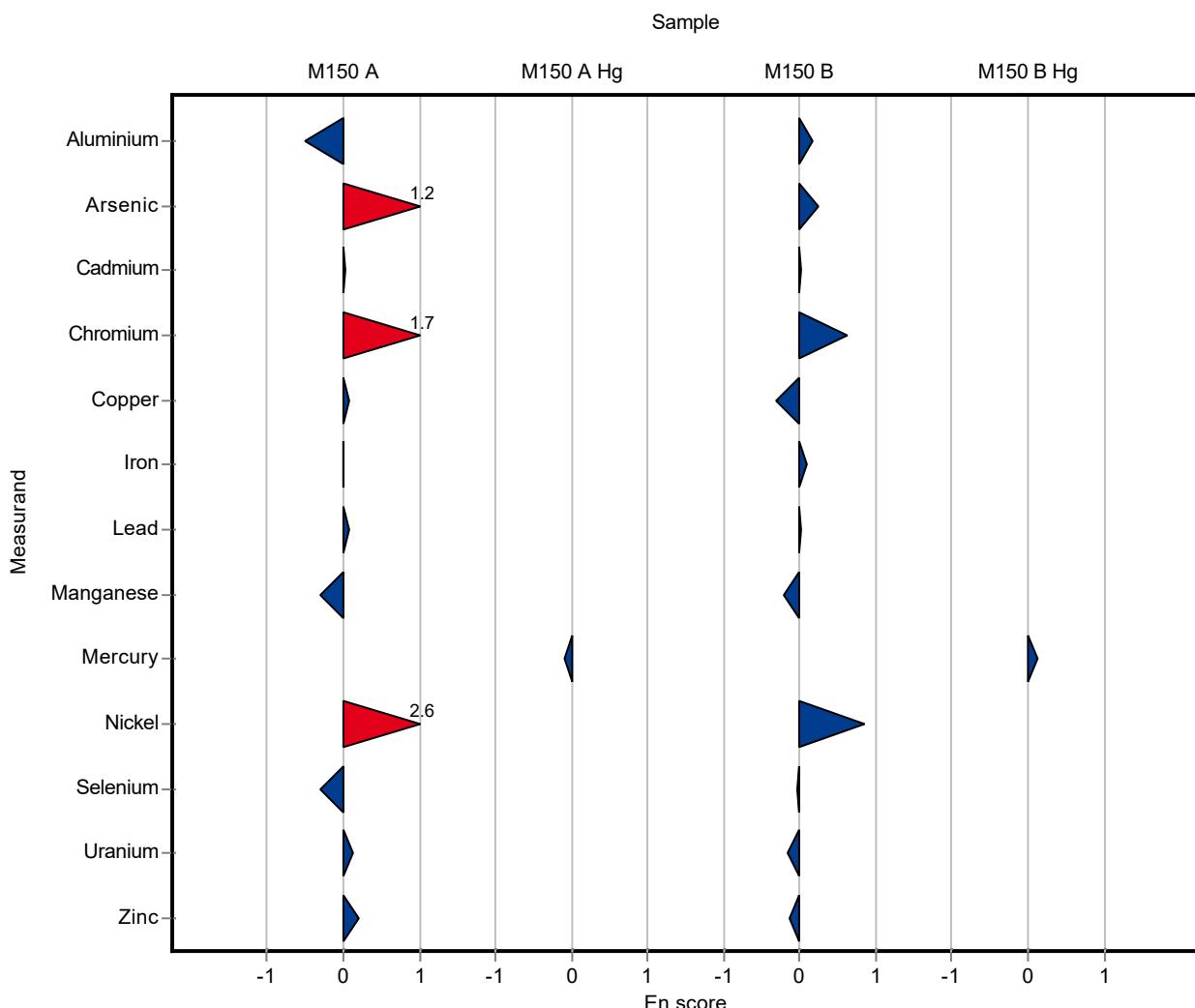
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	177.79 $\pm$ 20	25.7	104	0.16
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	7.42 $\pm$ 1.5	0.865	112	0.26
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.59 $\pm$ 0.1	0.0588	100	0.01
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.8488 $\pm$ 0.1	0.061	118	0.64
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	71.72 $\pm$ 8	6.92	93.2	-0.32
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	87.94 $\pm$ 9	15.5	102	0.10
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.53 $\pm$ 0.25	0.379	100	0.01
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.29 $\pm$ 2	1.31	95.4	-0.21
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	26.66 $\pm$ 2.5	2.68	119	0.85
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.39 $\pm$ 0.7	0.414	98.2	-0.04

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.1473 ± 0.13	0.0785	96.4	-0.16
Zinc	µg/l	179 ± 4.18	173.56 ± 20	16.1	97.2	-0.12

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.22 ± 0.25	0.301	103	0.13



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.862 $\pm$ 2.04	2.48	102	0.13
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.3301 $\pm$ 0.23	0.175	98.9	-0.09
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.516 $\pm$ 0.95	0.55	100	0.03
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.885 $\pm$ 0.084	0.0776	97	-0.36
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.415 $\pm$ 0.083	0.668	99.9	-0.01
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	270.94 $\pm$ 17.04	48.4	101	0.05
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.586 $\pm$ 0.086	0.0844	104	0.28
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.458 $\pm$ 0.16	0.178	99.7	-0.04
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.221 $\pm$ 0.24	0.265	100	0.04
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	0.958 $\pm$ 0.11	0.125	92.3	-0.64
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.948 $\pm$ 0.082	0.0615	102	0.25
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	30.08 $\pm$ 3.07	2.74	98.7	-0.15

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	2.318 $\pm$ 0.55	0.112	290	13.50

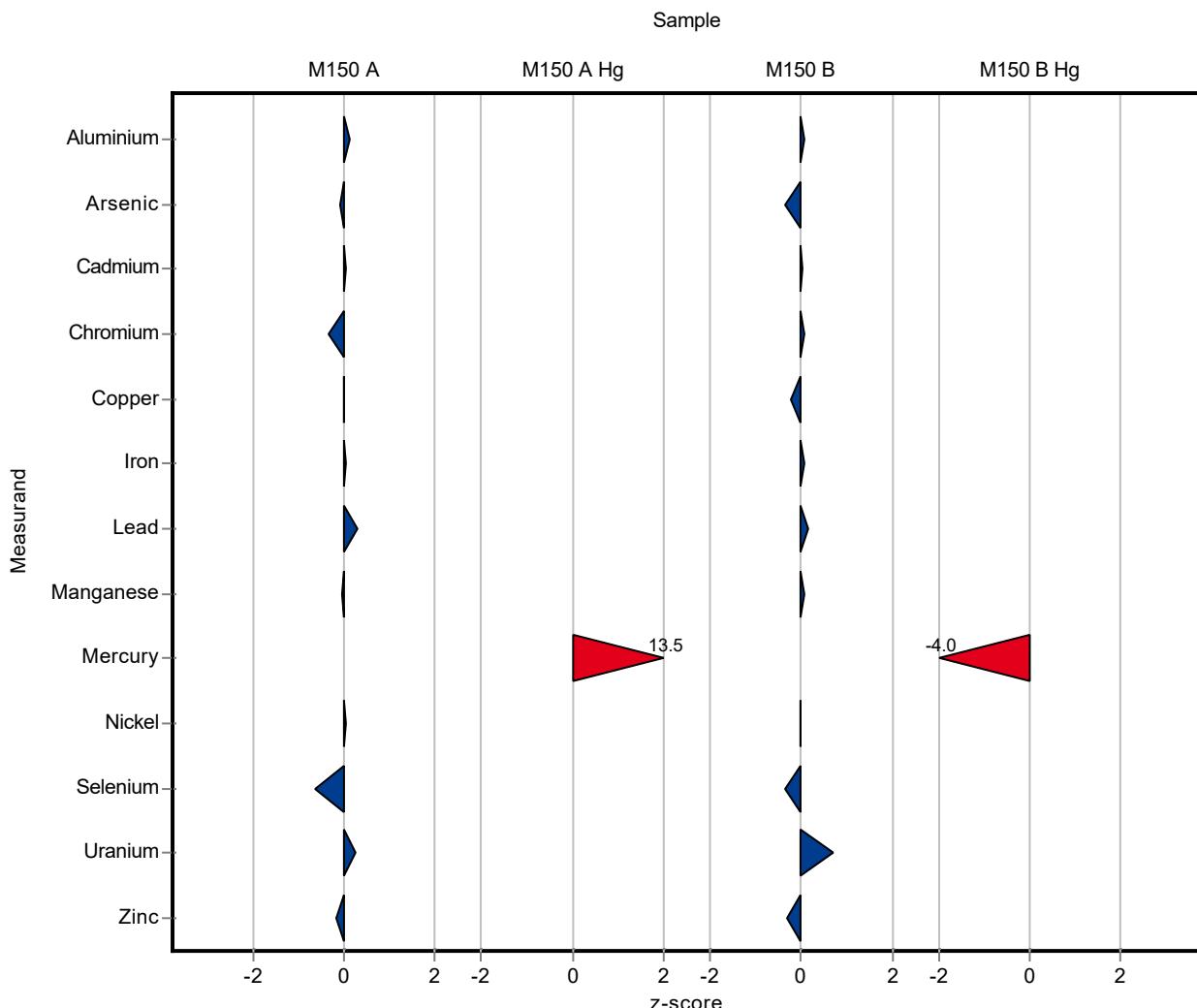
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	173.25 $\pm$ 20.96	25.7	101	0.08
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.36 $\pm$ 1.09	0.865	95.6	-0.34
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.589 $\pm$ 0.101	0.0588	100	0.02
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.723 $\pm$ 0.069	0.061	101	0.08
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	75.457 $\pm$ 8.45	6.92	98.1	-0.21
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	87.21 $\pm$ 5.49	15.5	101	0.07
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.587 $\pm$ 0.38	0.379	102	0.17
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.198 $\pm$ 1.2	1.31	100	0.05
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22.331 $\pm$ 2.45	2.68	99.9	-0.01
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.3 $\pm$ 0.36	0.414	95.6	-0.37

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.245 ± 0.11	0.0785	105	0.70
Zinc	µg/l	179 ± 4.18	173.72 ± 17.72	16.1	97.3	-0.30

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	0.951 ± 0.23	0.301	44.2	-3.99



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.862 $\pm$ 2.04	2.48	102	0.08
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.3301 $\pm$ 0.23	0.175	98.9	-0.03
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.516 $\pm$ 0.95	0.55	100	0.01
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.885 $\pm$ 0.084	0.0776	97	-0.16
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.415 $\pm$ 0.083	0.668	99.9	-0.03
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	270.94 $\pm$ 17.04	48.4	101	0.07
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.586 $\pm$ 0.086	0.0844	104	0.14
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.458 $\pm$ 0.16	0.178	99.7	-0.02
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.221 $\pm$ 0.24	0.265	100	0.02
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	0.958 $\pm$ 0.11	0.125	92.3	-0.36
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.948 $\pm$ 0.082	0.0615	102	0.09
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	30.08 $\pm$ 3.07	2.74	98.7	-0.07

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	2.318 $\pm$ 0.55	0.112	290	1.38

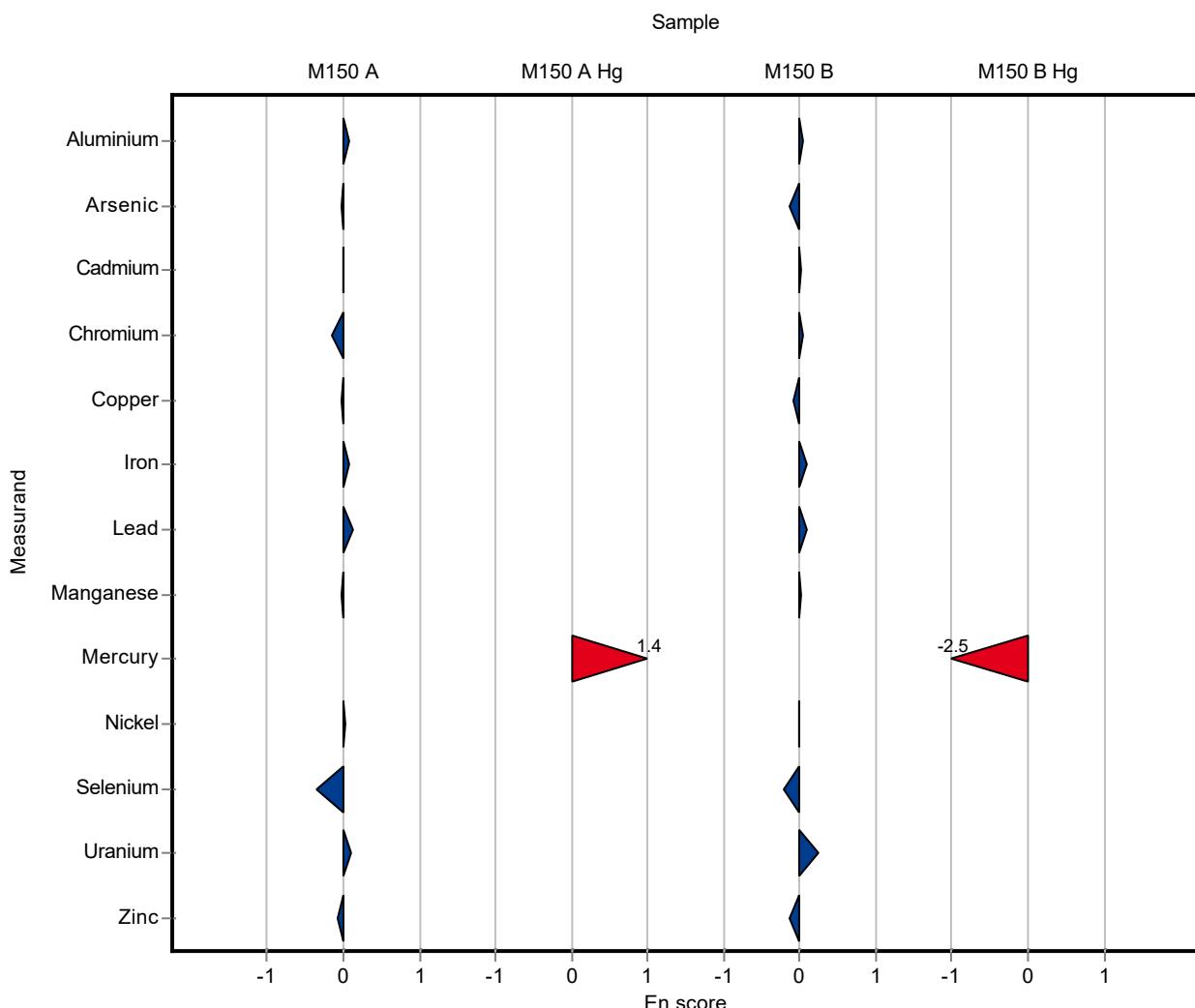
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	173.25 $\pm$ 20.96	25.7	101	0.05
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.36 $\pm$ 1.09	0.865	95.6	-0.13
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.589 $\pm$ 0.101	0.0588	100	0.01
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.723 $\pm$ 0.069	0.061	101	0.03
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	75.457 $\pm$ 8.45	6.92	98.1	-0.09
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	87.21 $\pm$ 5.49	15.5	101	0.09
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.587 $\pm$ 0.38	0.379	102	0.08
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.198 $\pm$ 1.2	1.31	100	0.03
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22.331 $\pm$ 2.45	2.68	99.9	-0.01
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.3 $\pm$ 0.36	0.414	95.6	-0.20

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.245 ± 0.11	0.0785	105 0.25
Zinc	µg/l	179 ± 4.18	173.72 ± 17.72	16.1	97.3 -0.14

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	0.951 ± 0.23	0.301	44.2	-2.55



Sample: M150A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	16.5 ± 0.665	14 ± 1.4	2.48	84.6	-1.03
Arsenic	µg/l	1.35 ± 0.037	<10 (LOQ) ± -	0.175	-	-
Cadmium	µg/l	5.5 ± 0.0883	5.4 ± 0.27	0.55	98.2	-0.18
Chromium	µg/l	0.913 ± 0.0459	<5 (LOQ) ± -	0.0776	-	-
Copper	µg/l	7.42 ± 0.284	8 ± 1.1	0.668	108	0.86
Iron	µg/l	269 ± 4.67	265 ± 27	48.4	98.6	-0.08
Lead	µg/l	0.562 ± 0.0335	<5 (LOQ) ± -	0.0844	-	-
Manganese	µg/l	2.47 ± 0.0899	<5 (LOQ) ± -	0.178	-	-
Nickel	µg/l	2.21 ± 0.0769	<5 (LOQ) ± -	0.265	-	-
Selenium	µg/l	1.04 ± 0.0472	<5 (LOQ) ± -	0.125	-	-
Uranium	µg/l	0.932 ± 0.0203	- ± -	0.0615	-	-
Zinc	µg/l	30.5 ± 0.763	34 ± 4.1	2.74	112	1.28

Sample: M150AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.8 ± 0.0338	1 ± 0.21	0.112	125	1.78

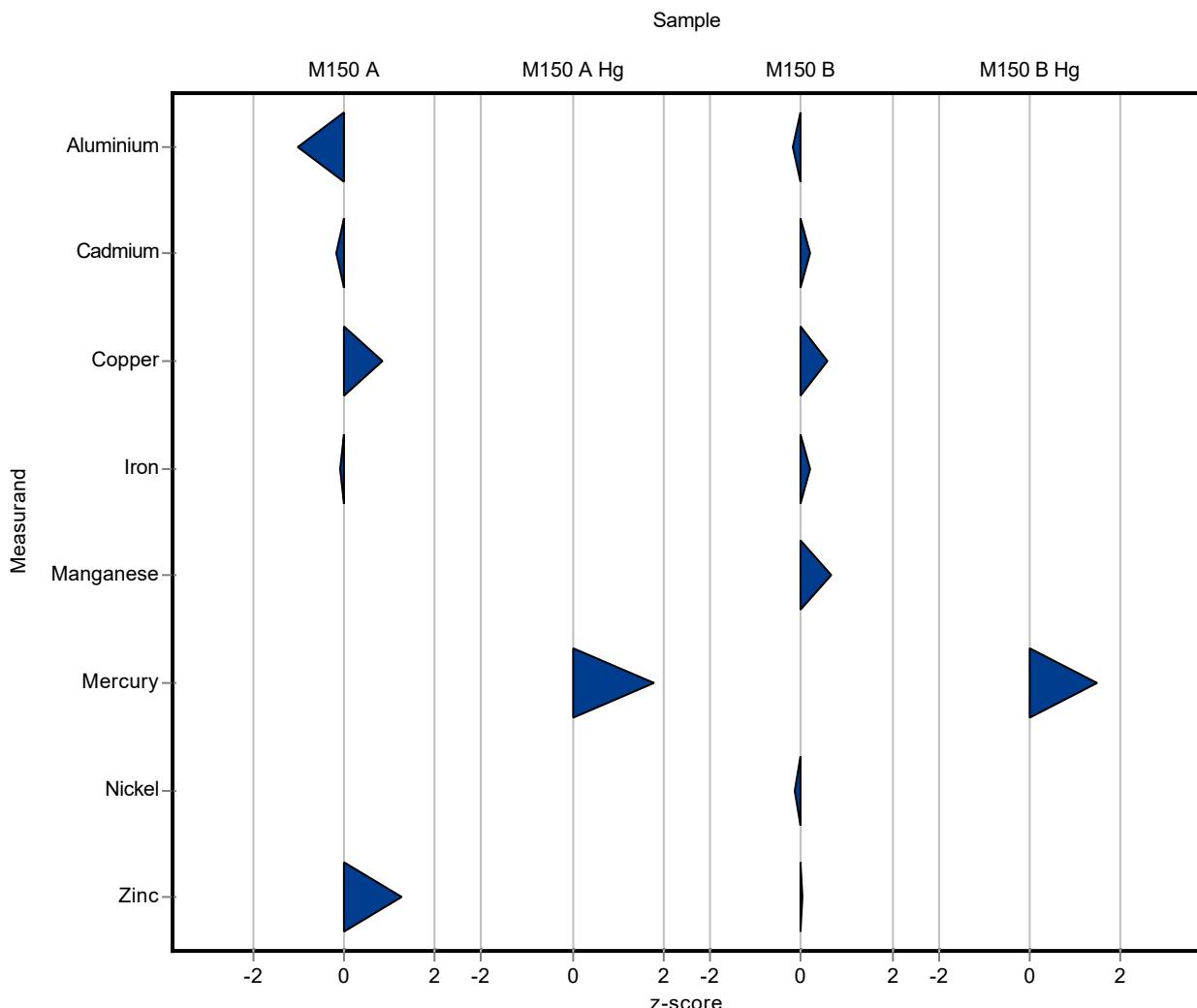
Sample: M150B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	171 ± 3.57	167 ± 17	25.7	97.5	-0.17
Arsenic	µg/l	6.65 ± 0.205	<10 (LOQ) ± -	0.865	-	-
Cadmium	µg/l	0.588 ± 0.0125	0.6 ± 0.03	0.0588	102	0.21
Chromium	µg/l	0.718 ± 0.0472	<5 (LOQ) ± -	0.061	-	-
Copper	µg/l	76.9 ± 1.7	81 ± 11	6.92	105	0.59
Iron	µg/l	86.2 ± 2.34	89 ± 9	15.5	103	0.18
Lead	µg/l	2.52 ± 0.0972	<5 (LOQ) ± -	0.379	-	-
Manganese	µg/l	18.1 ± 0.349	19 ± 2.3	1.31	105	0.67
Nickel	µg/l	22.4 ± 0.703	22 ± 2	2.68	98.4	-0.13
Selenium	µg/l	3.45 ± 0.179	<5 (LOQ) ± -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-	-
Zinc	µg/l	179 ± 4.18	179 ± 21	16.1	100	0.03

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.6 ± 0.55	0.301	121	1.49



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	14 $\pm$ 1.4	2.48	84.6	-0.89
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	<10 (LOQ) $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.4 $\pm$ 0.27	0.55	98.2	-0.18
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<5 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	8 $\pm$ 1.1	0.668	108	0.26
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	265 $\pm$ 27	48.4	98.6	-0.07
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<5 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<5 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	<5 (LOQ) $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	<5 (LOQ) $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	34 $\pm$ 4.1	2.74	112	0.43

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	1 $\pm$ 0.21	0.112	125	0.47

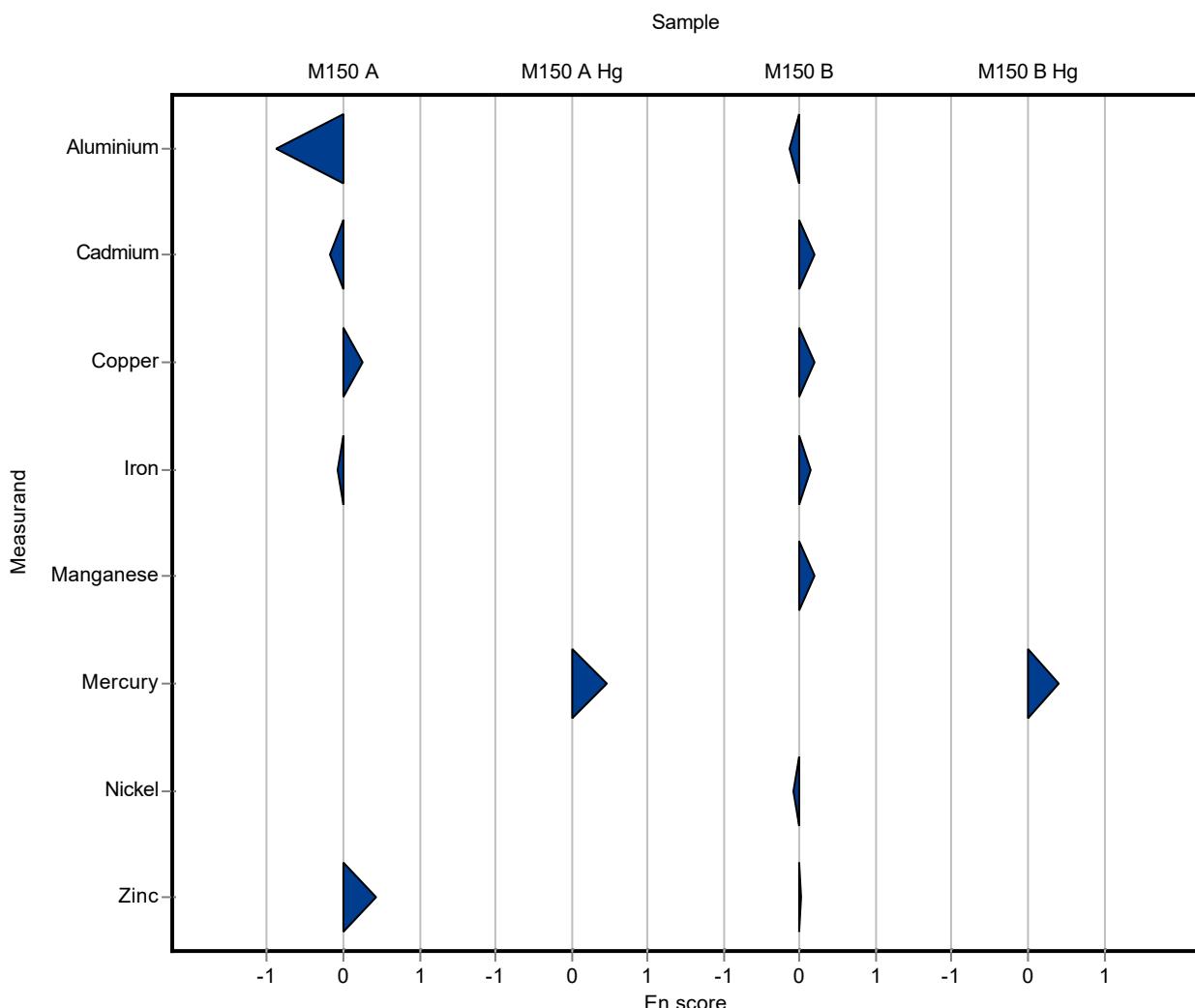
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	167 $\pm$ 17	25.7	97.5	-0.12
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	<10 (LOQ) $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.6 $\pm$ 0.03	0.0588	102	0.20
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<5 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	81 $\pm$ 11	6.92	105	0.18
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	89 $\pm$ 9	15.5	103	0.16
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	<5 (LOQ) $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	19 $\pm$ 2.3	1.31	105	0.19
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22 $\pm$ 2	2.68	98.4	-0.09
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	<5 (LOQ) $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-
Zinc	µg/l	179 ± 4.18	179 ± 21	16.1	100 0.01

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.6 ± 0.55	0.301	121	0.41



Sample: M150A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	16.5 ± 0.665	13.71 ± 0.29	2.48	82.9	-1.14
Arsenic	µg/l	1.35 ± 0.037	1.57 ± 0.06	0.175	117	1.29
Cadmium	µg/l	5.5 ± 0.0883	5.44 ± 0.03	0.55	98.9	-0.11
Chromium	µg/l	0.913 ± 0.0459	1.03 ± 0.01	0.0776	113	1.51
Copper	µg/l	7.42 ± 0.284	7.88 ± 0.04	0.668	106	0.68
Iron	µg/l	269 ± 4.67	279 ± 18	48.4	104	0.21
Lead	µg/l	0.562 ± 0.0335	0.47 ± 0.001	0.0844	83.6	-1.10
Manganese	µg/l	2.47 ± 0.0899	2.78 ± 0.04	0.178	113	1.77
Nickel	µg/l	2.21 ± 0.0769	2.84 ± 0.07	0.265	129	2.38
Selenium	µg/l	1.04 ± 0.0472	4.21 ± 0.21	0.125	406	25.50
Uranium	µg/l	0.932 ± 0.0203	0.8 ± 0.02	0.0615	85.8	-2.15
Zinc	µg/l	30.5 ± 0.763	29.9 ± 0.36	2.74	98.1	-0.21

Sample: M150AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.8 ± 0.0338	<10 (LOQ) ± -	0.112	-	-

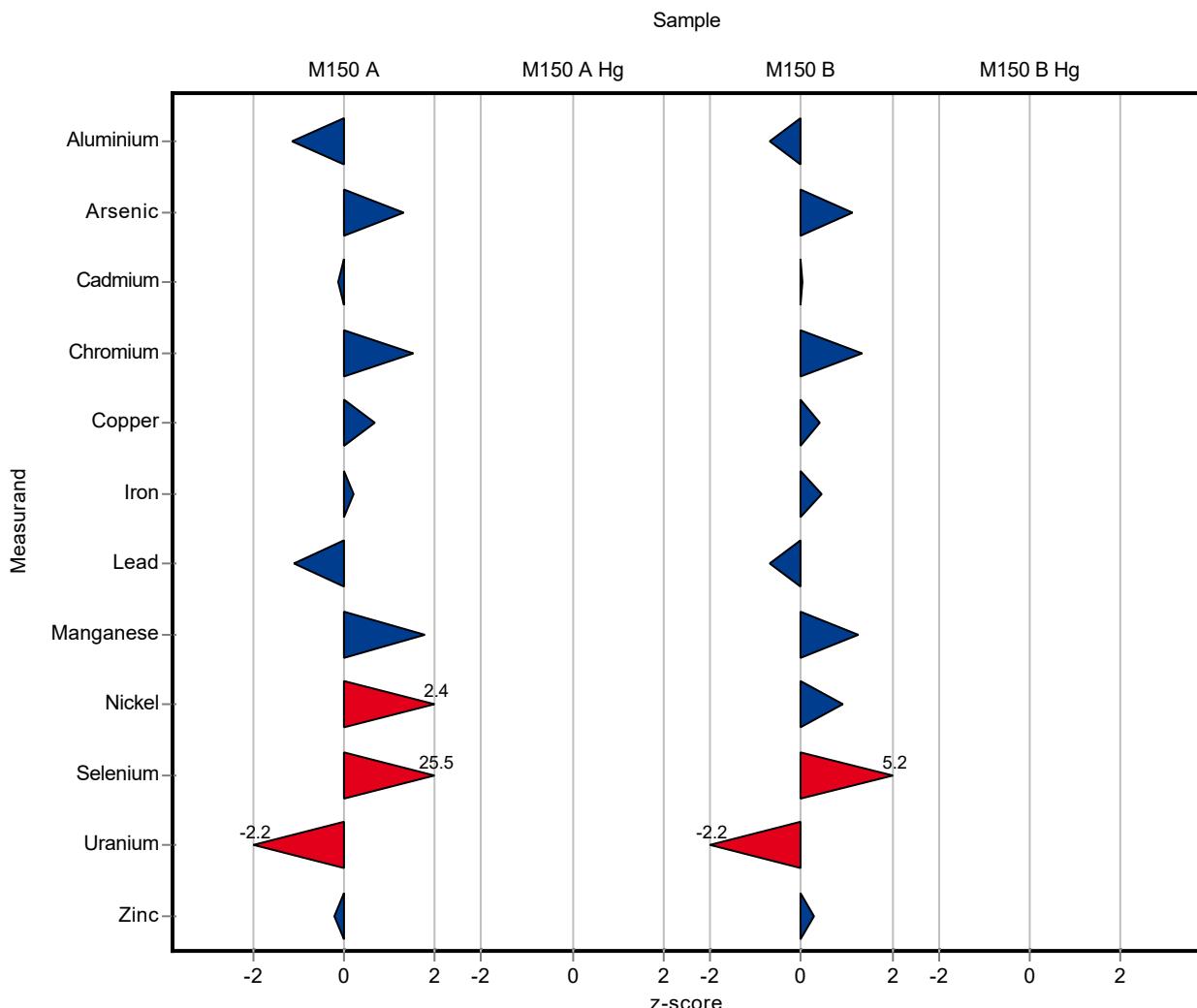
Sample: M150B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	171 ± 3.57	154 ± 4	25.7	89.9	-0.67
Arsenic	µg/l	6.65 ± 0.205	7.62 ± 0.07	0.865	115	1.12
Cadmium	µg/l	0.588 ± 0.0125	0.59 ± 0.01	0.0588	100	0.04
Chromium	µg/l	0.718 ± 0.0472	0.8 ± 0.01	0.061	111	1.34
Copper	µg/l	76.9 ± 1.7	79.7 ± 0.4	6.92	104	0.40
Iron	µg/l	86.2 ± 2.34	92.9 ± 0.9	15.5	108	0.43
Lead	µg/l	2.52 ± 0.0972	2.27 ± 0.03	0.379	89.9	-0.67
Manganese	µg/l	18.1 ± 0.349	19.78 ± 0.06	1.31	109	1.27
Nickel	µg/l	22.4 ± 0.703	24.8 ± 0.22	2.68	111	0.91
Selenium	µg/l	3.45 ± 0.179	5.59 ± 0.08	0.414	162	5.16

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.02 ± 0.001	0.0785	85.7	-2.16
Zinc	µg/l	179 ± 4.18	183 ± 2	16.1	103	0.28

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	<10 (LOQ) ± -	0.301	-	-



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	13.71 $\pm$ 0.29	2.48	82.9	-3.21
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.57 $\pm$ 0.06	0.175	117	1.79
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.44 $\pm$ 0.03	0.55	98.9	-0.55
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	1.03 $\pm$ 0.01	0.0776	113	2.34
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.88 $\pm$ 0.04	0.668	106	1.55
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	279 $\pm$ 18	48.4	104	0.28
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.47 $\pm$ 0.001	0.0844	83.6	-2.75
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.78 $\pm$ 0.04	0.178	113	2.61
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.84 $\pm$ 0.07	0.265	129	3.94
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	4.21 $\pm$ 0.21	0.125	406	7.50
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.8 $\pm$ 0.02	0.0615	85.8	-2.95
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	29.9 $\pm$ 0.36	2.74	98.1	-0.56

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	<10 (LOQ) $\pm$ -	0.112	-	-

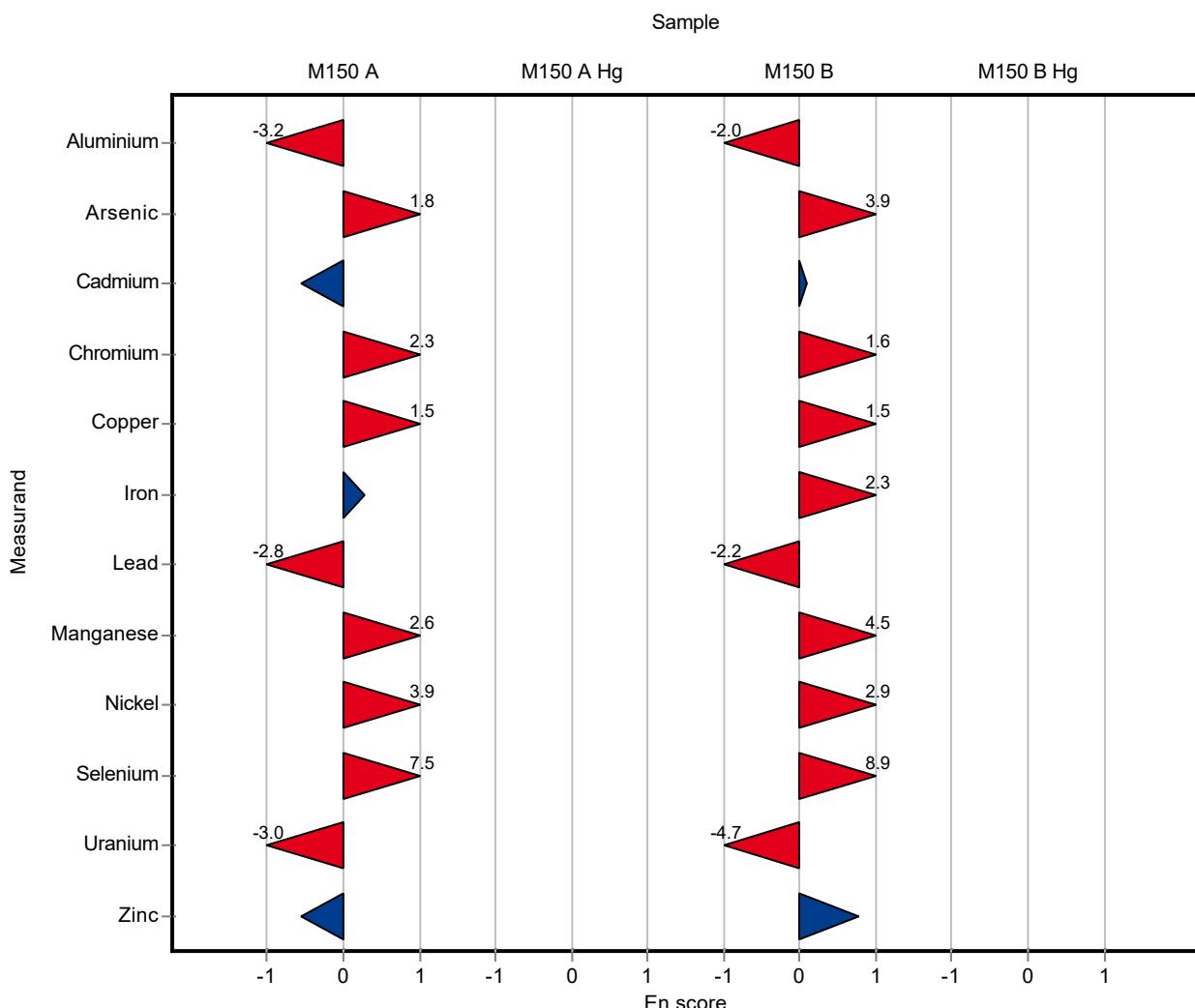
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	154 $\pm$ 4	25.7	89.9	-1.97
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	7.62 $\pm$ 0.07	0.865	115	3.90
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.59 $\pm$ 0.01	0.0588	100	0.10
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.8 $\pm$ 0.01	0.061	111	1.60
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	79.7 $\pm$ 0.4	6.92	104	1.48
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	92.9 $\pm$ 0.9	15.5	108	2.28
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.27 $\pm$ 0.03	0.379	89.9	-2.23
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	19.78 $\pm$ 0.06	1.31	109	4.48
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	24.8 $\pm$ 0.22	2.68	111	2.94
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	5.59 $\pm$ 0.08	0.414	162	8.90

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.02 ± 0.001	0.0785	85.7	-4.75
Zinc	µg/l	179 ± 4.18	183 ± 2	16.1	103	0.77

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	<10 (LOQ) ± -	0.301	-	-



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.3 $\pm$ 4.1	2.48	98.5	-0.10
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.37 $\pm$ 0.46	0.175	102	0.14
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.57 $\pm$ 0.94	0.55	101	0.13
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	8.46 $\pm$ 1.83	0.668	114	1.55
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	273 $\pm$ 39	48.4	102	0.09
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.62 $\pm$ 0.53	0.0844	110	0.68
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.63 $\pm$ 0.9	0.178	107	0.93
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.12 $\pm$ 0.41	0.125	108	0.66
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	29.8 $\pm$ 6.2	2.74	97.7	-0.25

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.84 $\pm$ 0.17	0.112	105	0.35

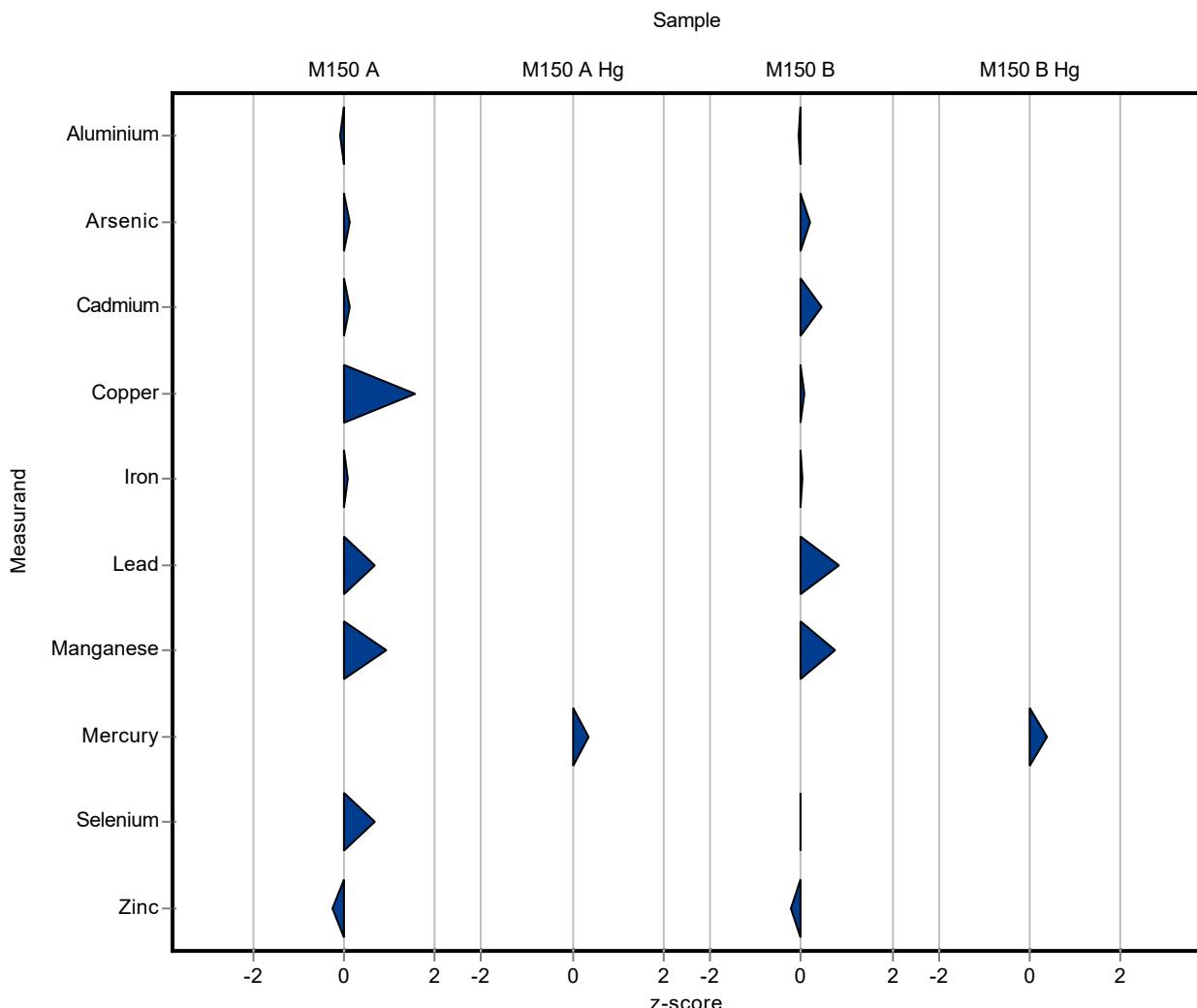
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	170 $\pm$ 15	25.7	99.3	-0.05
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.81 $\pm$ 1.36	0.865	102	0.18
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.615 $\pm$ 0.181	0.0588	105	0.46
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	77.3 $\pm$ 16.3	6.92	100	0.05
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	86.8 $\pm$ 12.3	15.5	101	0.04
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.83 $\pm$ 0.92	0.379	112	0.81
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	19.1 $\pm$ 3.78	1.31	105	0.74
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.44 $\pm$ 0.81	0.414	99.7	-0.03

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-	-
Zinc	µg/l	179 ± 4.18	175 ± 31	16.1	98	-0.22

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.26 ± 0.37	0.301	105	0.36



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.3 $\pm$ 4.1	2.48	98.5	-0.03
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.37 $\pm$ 0.46	0.175	102	0.03
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.57 $\pm$ 0.94	0.55	101	0.04
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	8.46 $\pm$ 1.83	0.668	114	0.28
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	273 $\pm$ 39	48.4	102	0.06
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.62 $\pm$ 0.53	0.0844	110	0.05
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.63 $\pm$ 0.9	0.178	107	0.09
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.12 $\pm$ 0.41	0.125	108	0.10
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	29.8 $\pm$ 6.2	2.74	97.7	-0.06

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.84 $\pm$ 0.17	0.112	105	0.12

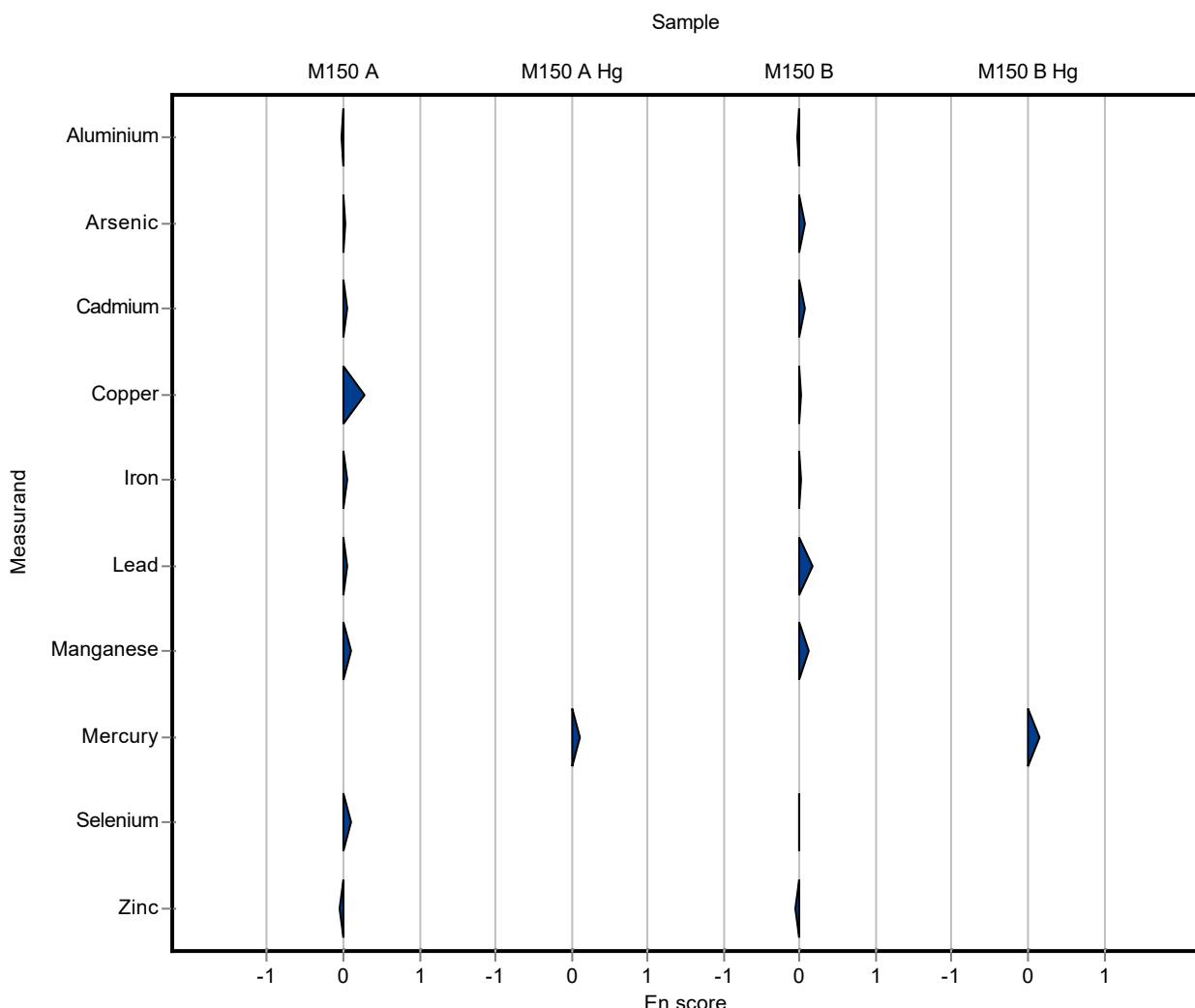
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	170 $\pm$ 15	25.7	99.3	-0.04
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.81 $\pm$ 1.36	0.865	102	0.06
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.615 $\pm$ 0.181	0.0588	105	0.08
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	77.3 $\pm$ 16.3	6.92	100	0.01
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	86.8 $\pm$ 12.3	15.5	101	0.03
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.83 $\pm$ 0.92	0.379	112	0.17
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	19.1 $\pm$ 3.78	1.31	105	0.13
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.44 $\pm$ 0.81	0.414	99.7	-0.01

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-	-
Zinc	µg/l	179 ± 4.18	175 ± 31	16.1	98	-0.06

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.26 ± 0.37	0.301	105	0.14



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.6 $\pm$ 2.49	2.48	100	0.02
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.17 $\pm$ 0.18	0.175	87	-1.00
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	4.68 $\pm$ 0.7	0.55	85.1	-1.49
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<1 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	6.95 $\pm$ 1.04	0.668	93.6	-0.71
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	255 $\pm$ 38.2	48.4	94.9	-0.28
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<5 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.23 $\pm$ 0.33	0.265	101	0.08
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	0.933 $\pm$ 0.14	0.125	89.9	-0.84
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.935 $\pm$ 0.14	0.0615	100	0.04
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	26.3 $\pm$ 3.95	2.74	86.3	-1.53

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.729 $\pm$ 0.109	0.112	91.1	-0.64

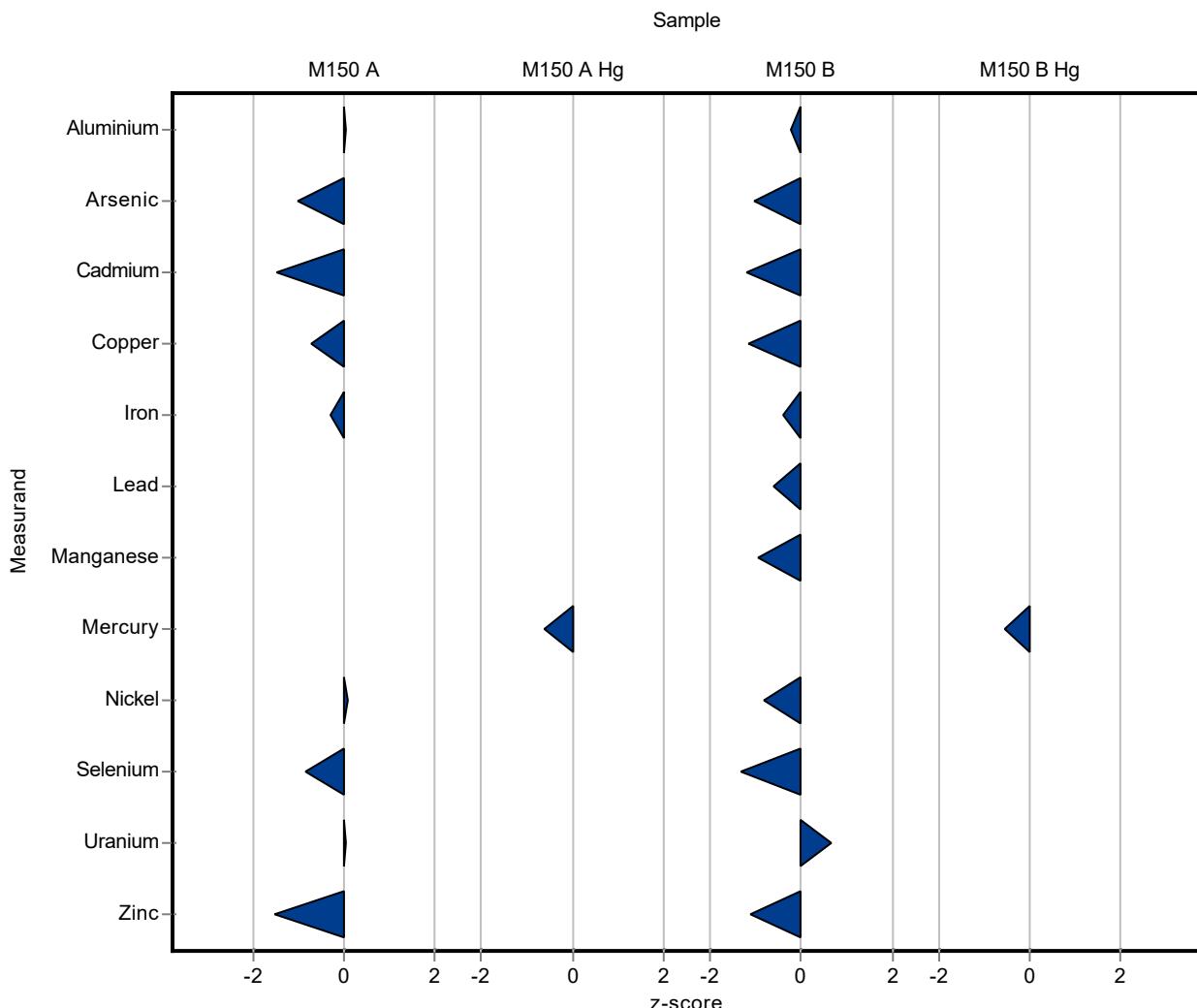
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	166 $\pm$ 25	25.7	96.9	-0.20
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	5.78 $\pm$ 0.87	0.865	86.9	-1.01
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.518 $\pm$ 0.078	0.0588	88.1	-1.19
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	68.9 $\pm$ 10.3	6.92	89.6	-1.16
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	80 $\pm$ 12	15.5	92.8	-0.40
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.3 $\pm$ 0.35	0.379	91.1	-0.59
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	16.9 $\pm$ 2.53	1.31	93.2	-0.94
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	20.2 $\pm$ 3.03	2.68	90.3	-0.81
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	2.91 $\pm$ 0.44	0.414	84.3	-1.31

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.24 ± 0.19	0.0785	104	0.64
Zinc	µg/l	179 ± 4.18	161 ± 24.1	16.1	90.2	-1.09

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	1.99 ± 0.3	0.301	92.5	-0.54



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	16.6 $\pm$ 2.49	2.48	100	0.01
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.17 $\pm$ 0.18	0.175	87	-0.48
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	4.68 $\pm$ 0.7	0.55	85.1	-0.58
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<1 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	6.95 $\pm$ 1.04	0.668	93.6	-0.23
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	255 $\pm$ 38.2	48.4	94.9	-0.18
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	<5 (LOQ) $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.23 $\pm$ 0.33	0.265	101	0.03
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	0.933 $\pm$ 0.14	0.125	89.9	-0.37
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.935 $\pm$ 0.14	0.0615	100	0.01
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	26.3 $\pm$ 3.95	2.74	86.3	-0.53

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.729 $\pm$ 0.109	0.112	91.1	-0.32

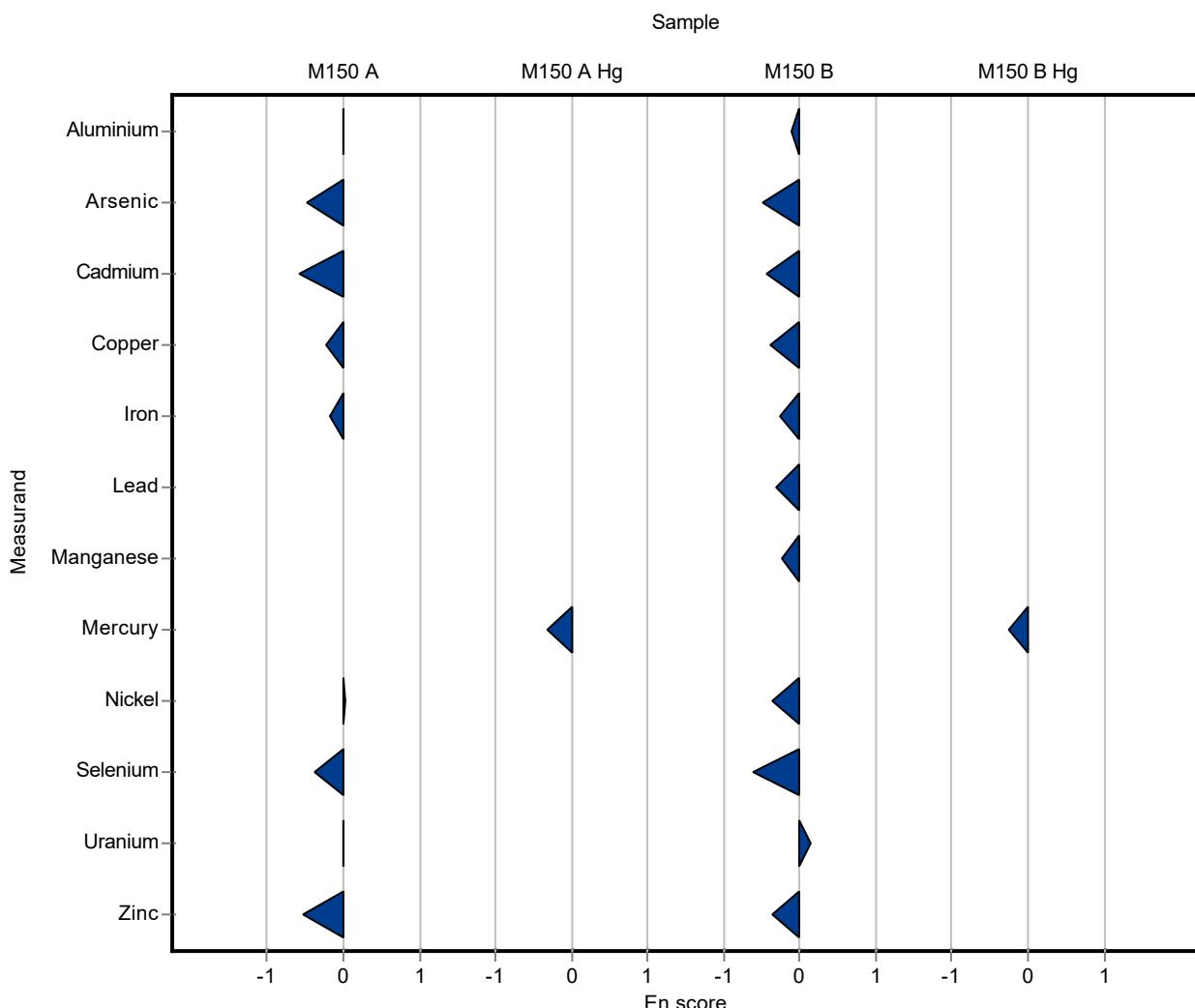
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	166 $\pm$ 25	25.7	96.9	-0.10
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	5.78 $\pm$ 0.87	0.865	86.9	-0.50
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.518 $\pm$ 0.078	0.0588	88.1	-0.45
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	68.9 $\pm$ 10.3	6.92	89.6	-0.39
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	80 $\pm$ 12	15.5	92.8	-0.26
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.3 $\pm$ 0.35	0.379	91.1	-0.32
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	16.9 $\pm$ 2.53	1.31	93.2	-0.24
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	20.2 $\pm$ 3.03	2.68	90.3	-0.35
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	2.91 $\pm$ 0.44	0.414	84.3	-0.60

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.24 ± 0.19	0.0785	104 0.13
Zinc	µg/l	179 ± 4.18	161 ± 24.1	16.1	90.2 -0.36

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	1.99 ± 0.3	0.301	92.5 -0.27



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	- $\pm$ -	0.55	-	-
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	- $\pm$ -	0.668	-	-
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	- $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	- $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	- $\pm$ -	25.7	-	-
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	- $\pm$ -	0.0588	-	-
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	- $\pm$ -	6.92	-	-
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	- $\pm$ -	15.5	-	-
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	- $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	- $\pm$ -	1.31	-	-
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-	-
Zinc	µg/l	179 ± 4.18	- ± -	16.1	-	-

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	-	-

Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	- $\pm$ -	0.55	-	-
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	- $\pm$ -	0.668	-	-
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	- $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	- $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	- $\pm$ -	25.7	-	-
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	- $\pm$ -	0.0588	-	-
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	- $\pm$ -	6.92	-	-
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	- $\pm$ -	15.5	-	-
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	- $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	- $\pm$ -	1.31	-	-
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-
Zinc	µg/l	179 ± 4.18	- ± -	16.1	-

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	-

Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	4.3295 $\pm$ 0.65	0.55	78.7	-2.13
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.4244 $\pm$ 0.06	0.0776	46.5	-6.29
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.745 $\pm$ 1.16	0.668	104	0.48
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.4453 $\pm$ 0.07	0.0844	79.2	-1.39
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.377 $\pm$ 0.36	0.178	96.4	-0.50
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.115 $\pm$ 0.32	0.265	95.7	-0.36
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.9278 $\pm$ 0.14	0.112	116	1.14

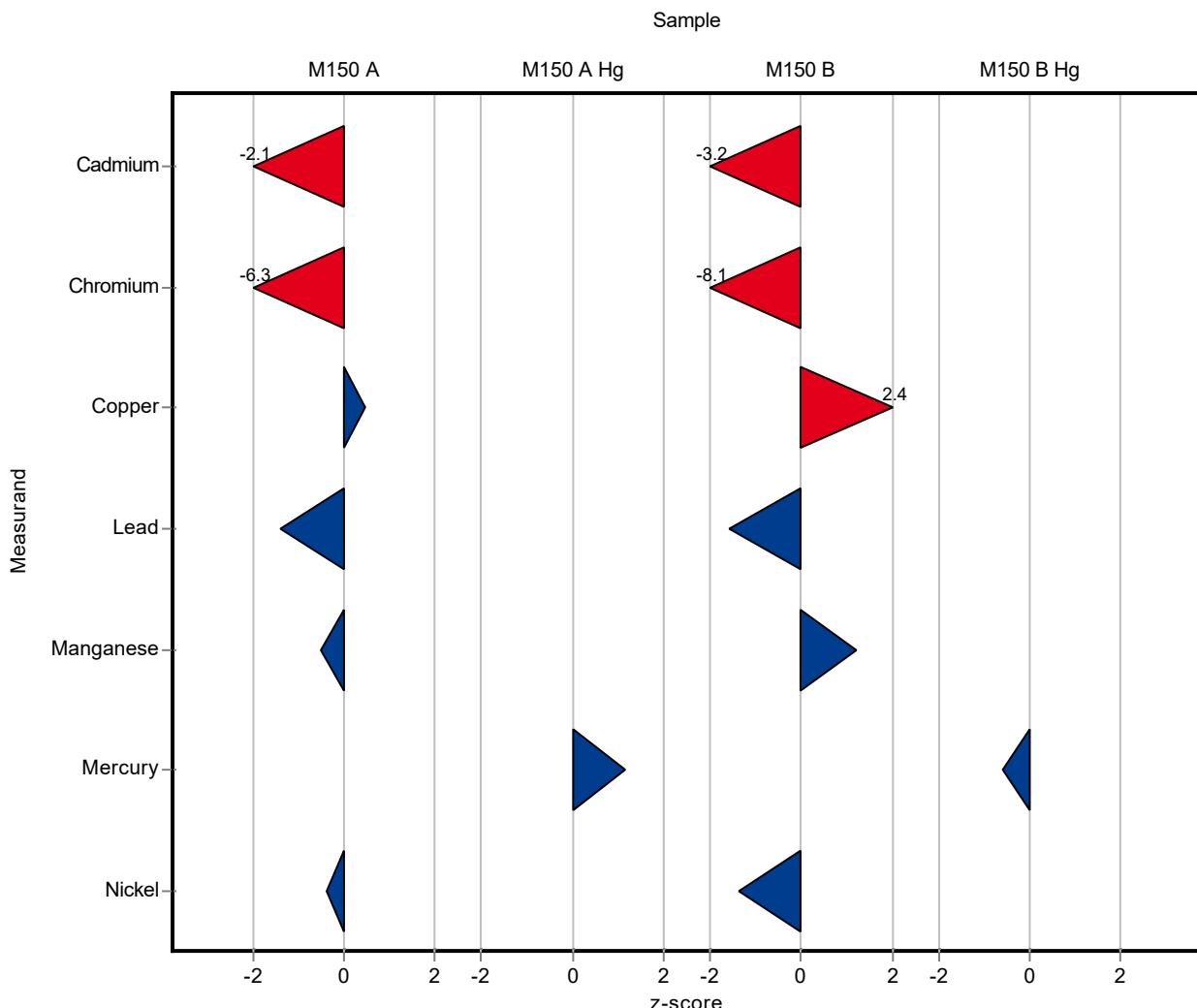
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	- $\pm$ -	25.7	-	-
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.3969 $\pm$ 0.06	0.0588	67.5	-3.25
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.2232 $\pm$ 0.03	0.061	31.1	-8.11
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	93.72 $\pm$ 14.06	6.92	122	2.43
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	- $\pm$ -	15.5	-	-
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	1.936 $\pm$ 0.29	0.379	76.7	-1.55
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	19.7 $\pm$ 2.96	1.31	109	1.20
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	18.7 $\pm$ 2.81	2.68	83.6	-1.36
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	- -
Zinc	µg/l	179 ± 4.18	- ± -	16.1	- -

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	1.9685 ± 0.3	0.301	91.5 -0.61



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	4.3295 $\pm$ 0.65	0.55	78.7	-0.90
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.4244 $\pm$ 0.06	0.0776	46.5	-3.80
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.745 $\pm$ 1.16	0.668	104	0.14
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.4453 $\pm$ 0.07	0.0844	79.2	-0.81
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.377 $\pm$ 0.36	0.178	96.4	-0.12
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.115 $\pm$ 0.32	0.265	95.7	-0.15
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.9278 $\pm$ 0.14	0.112	116	0.45

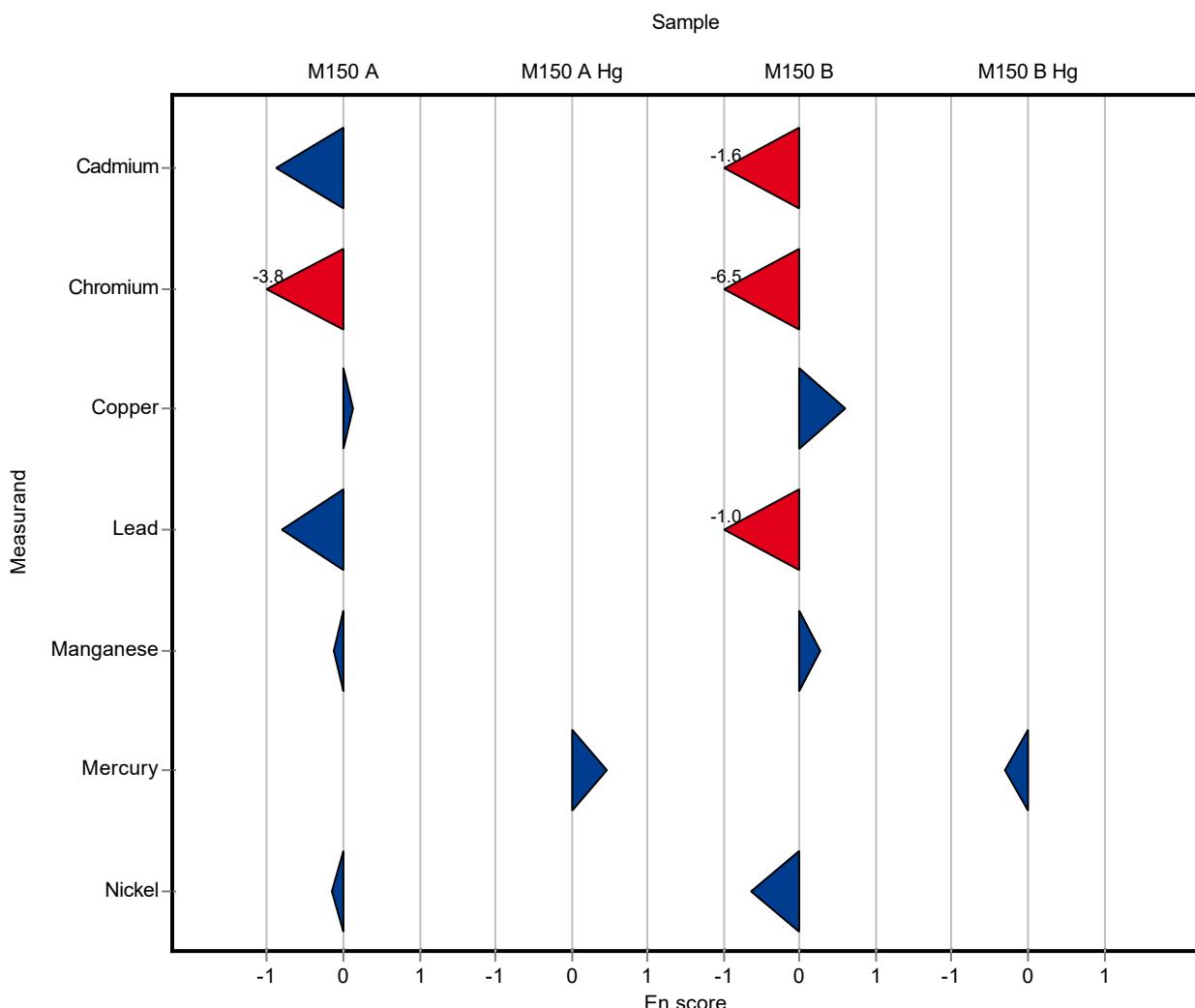
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	- $\pm$ -	25.7	-	-
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.3969 $\pm$ 0.06	0.0588	67.5	-1.58
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.2232 $\pm$ 0.03	0.061	31.1	-6.48
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	93.72 $\pm$ 14.06	6.92	122	0.60
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	- $\pm$ -	15.5	-	-
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	1.936 $\pm$ 0.29	0.379	76.7	-1.00
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	19.7 $\pm$ 2.96	1.31	109	0.27
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	18.7 $\pm$ 2.81	2.68	83.6	-0.65
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	- -
Zinc	µg/l	179 ± 4.18	- ± -	16.1	- -

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	1.9685 ± 0.3	0.301	91.5	-0.30



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	15.3 $\pm$ 2.2	2.48	92.5	-0.50
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.4 $\pm$ 0.2	0.175	104	0.31
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.6 $\pm$ 0.8	0.55	102	0.18
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.6 $\pm$ 0.2	0.0776	65.7	-4.03
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	6 $\pm$ 1	0.668	80.8	-2.13
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	240 $\pm$ 30	48.4	89.3	-0.59
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<0.5 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.4 $\pm$ 0.4	0.178	97.3	-0.37
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	1.8 $\pm$ 0.3	0.265	81.4	-1.55
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	31 $\pm$ 10	2.74	102	0.19

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

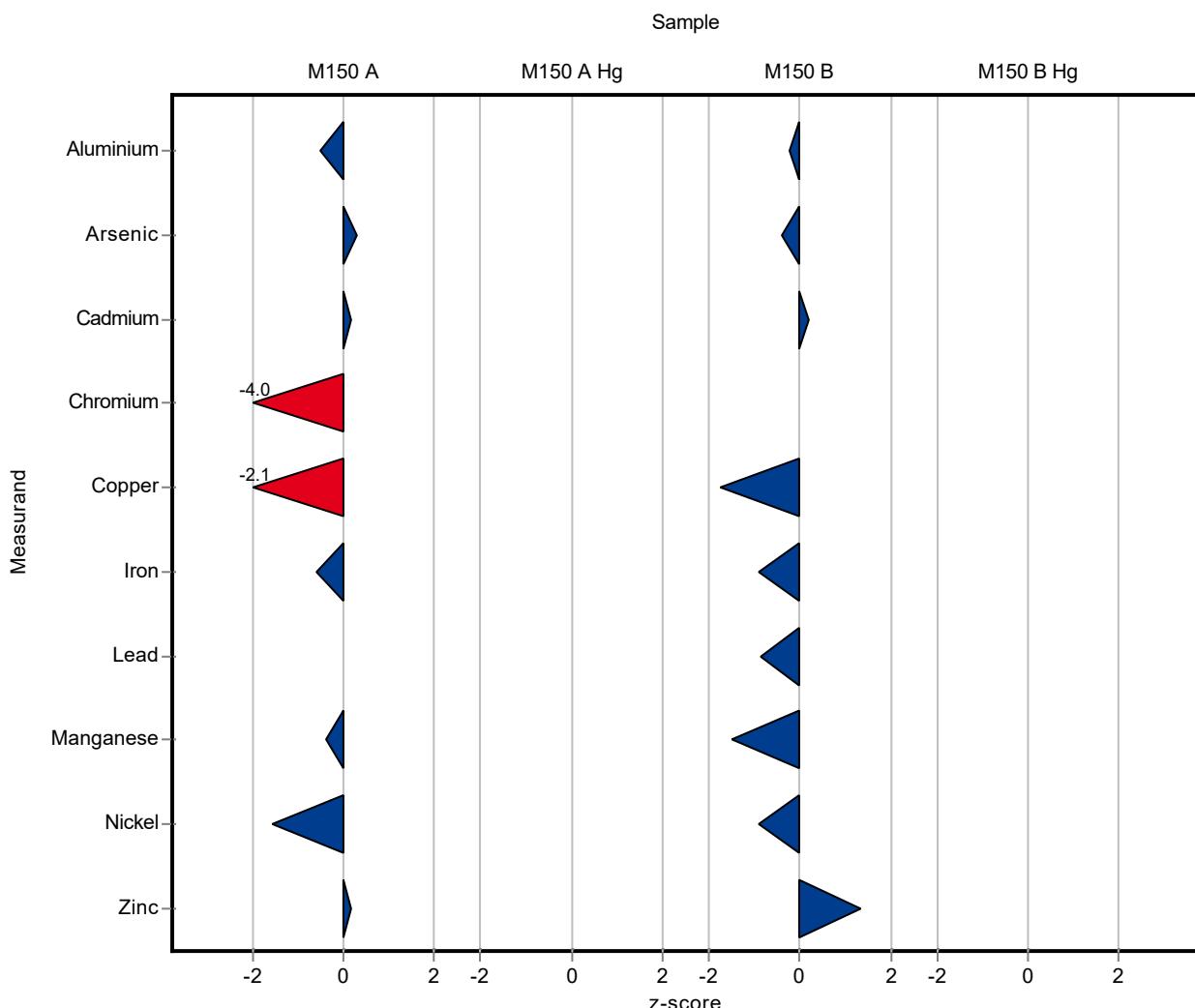
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	165 $\pm$ 20	25.7	96.4	-0.24
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.3 $\pm$ 0.6	0.865	94.7	-0.41
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.6 $\pm$ 0.1	0.0588	102	0.21
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<0.5 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	65 $\pm$ 10	6.92	84.5	-1.72
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	72.5 $\pm$ 12	15.5	84.1	-0.88
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.2 $\pm$ 0.5	0.379	87.2	-0.86
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	16.2 $\pm$ 2.2	1.31	89.4	-1.48
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	20 $\pm$ 2.4	2.68	89.4	-0.88
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-	
Zinc	µg/l	179 ± 4.18	200 ± 20	16.1	112	1.34

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	-



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	15.3 $\pm$ 2.2	2.48	92.5	-0.28
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.4 $\pm$ 0.2	0.175	104	0.14
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.6 $\pm$ 0.8	0.55	102	0.06
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.6 $\pm$ 0.2	0.0776	65.7	-0.78
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	6 $\pm$ 1	0.668	80.8	-0.70
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	240 $\pm$ 30	48.4	89.3	-0.48
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<0.5 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.4 $\pm$ 0.4	0.178	97.3	-0.08
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	1.8 $\pm$ 0.3	0.265	81.4	-0.68
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	31 $\pm$ 10	2.74	102	0.03

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

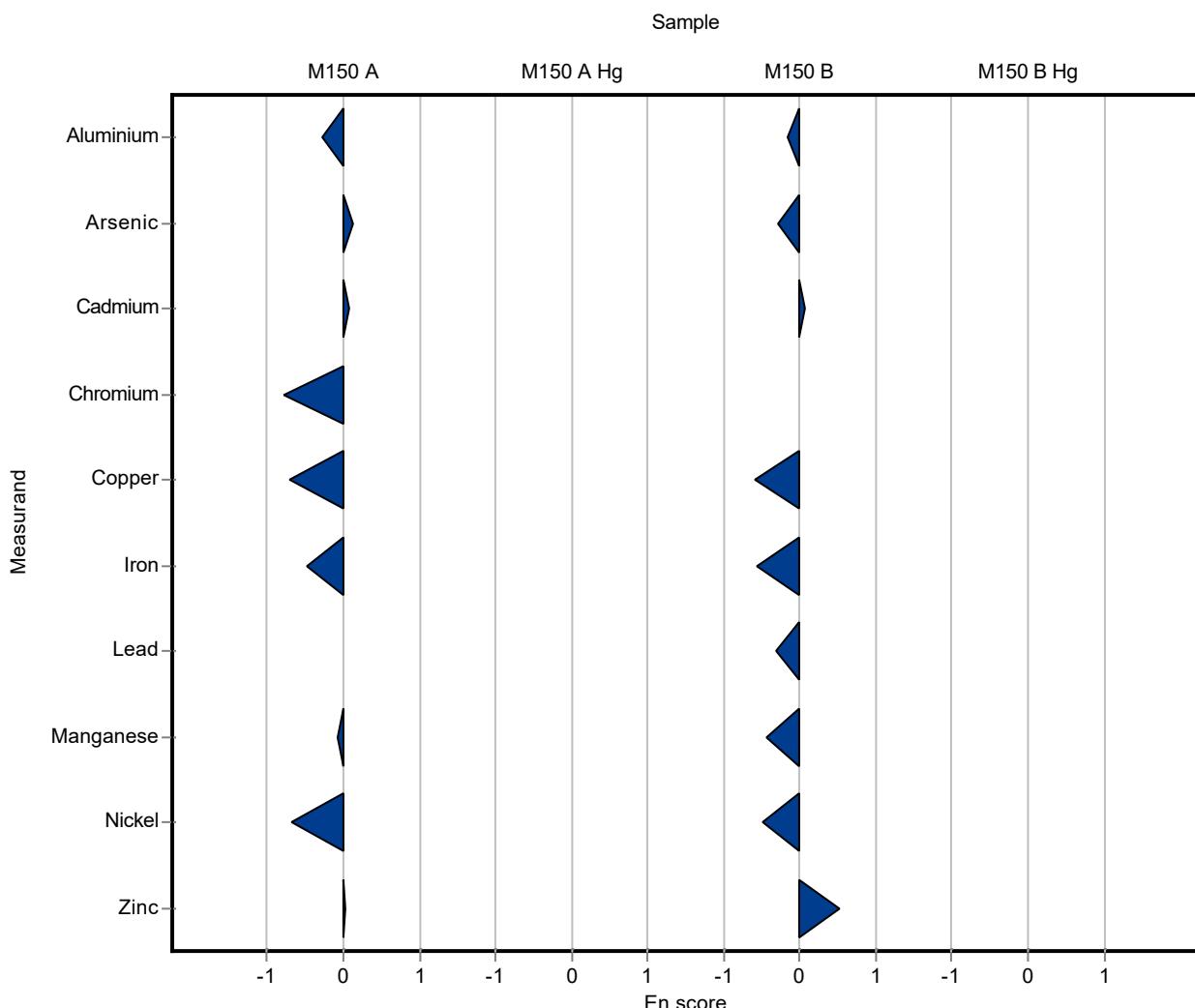
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	165 $\pm$ 20	25.7	96.4	-0.16
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.3 $\pm$ 0.6	0.865	94.7	-0.29
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.6 $\pm$ 0.1	0.0588	102	0.06
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<0.5 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	65 $\pm$ 10	6.92	84.5	-0.59
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	72.5 $\pm$ 12	15.5	84.1	-0.57
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.2 $\pm$ 0.5	0.379	87.2	-0.32
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	16.2 $\pm$ 2.2	1.31	89.4	-0.44
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	20 $\pm$ 2.4	2.68	89.4	-0.49
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score	
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-	
Zinc	µg/l	179 ± 4.18	200 ± 20	16.1	112	0.53

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	-



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.091 $\pm$ 1.049	0.55	92.6	-0.74
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	1.0749 $\pm$ 0.303	0.0776	118	2.09
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	- $\pm$ -	0.668	-	-
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	- $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	- $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.7068 $\pm$ 0.114	0.112	88.3	-0.83

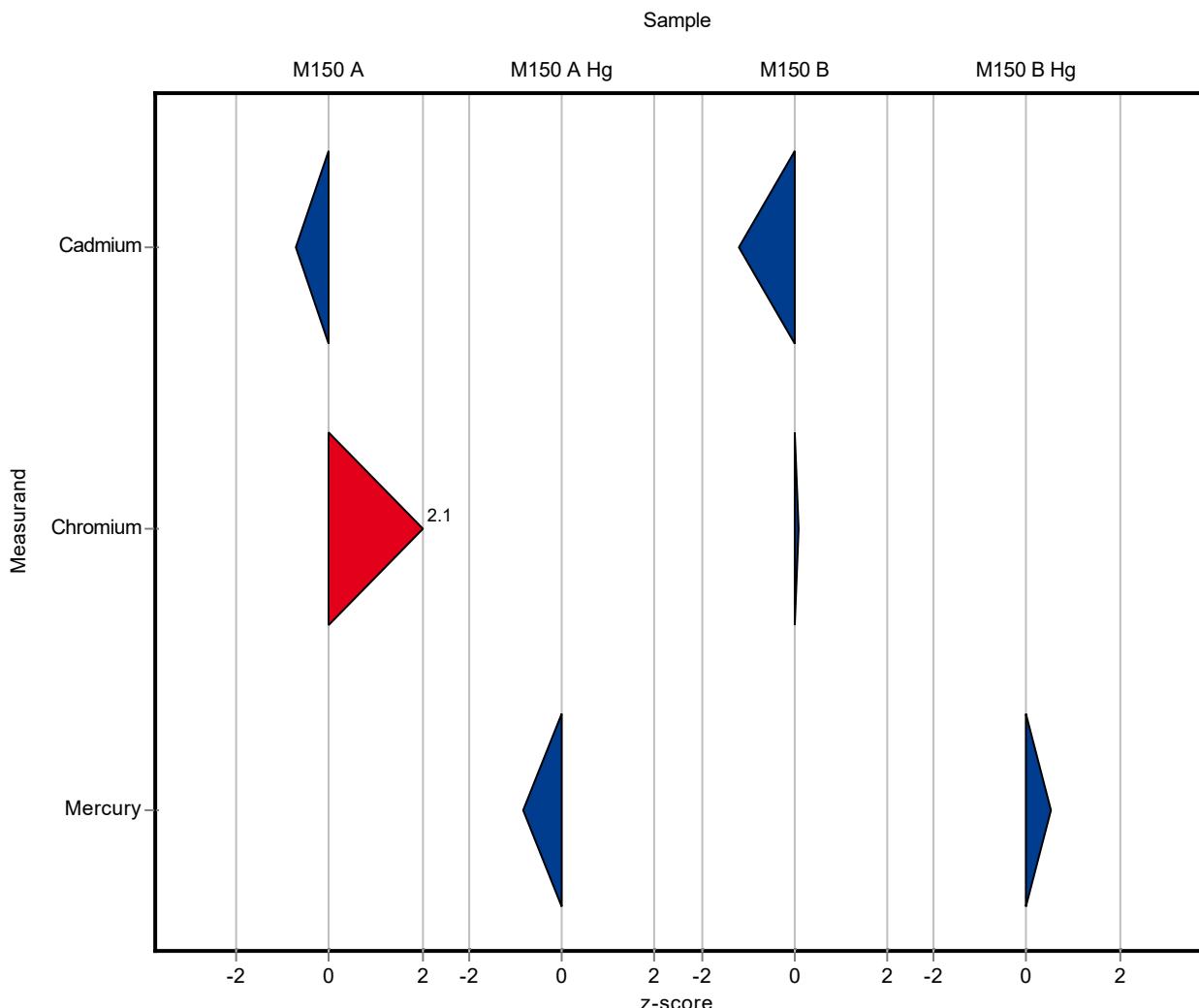
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	- $\pm$ -	25.7	-	-
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.5169 $\pm$ 0.106	0.0588	87.9	-1.21
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.7248 $\pm$ 0.205	0.061	101	0.11
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	- $\pm$ -	6.92	-	-
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	- $\pm$ -	15.5	-	-
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	- $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	- $\pm$ -	1.31	-	-
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	- -
Zinc	µg/l	179 ± 4.18	- ± -	16.1	- -

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.3117 ± 0.373	0.301	107 0.53



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	- $\pm$ -	2.48	-	-
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	- $\pm$ -	0.175	-	-
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.091 $\pm$ 1.049	0.55	92.6	-0.19
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	1.0749 $\pm$ 0.303	0.0776	118	0.27
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	- $\pm$ -	0.668	-	-
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	- $\pm$ -	48.4	-	-
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	- $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	- $\pm$ -	0.178	-	-
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	- $\pm$ -	0.265	-	-
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.7068 $\pm$ 0.114	0.112	88.3	-0.41

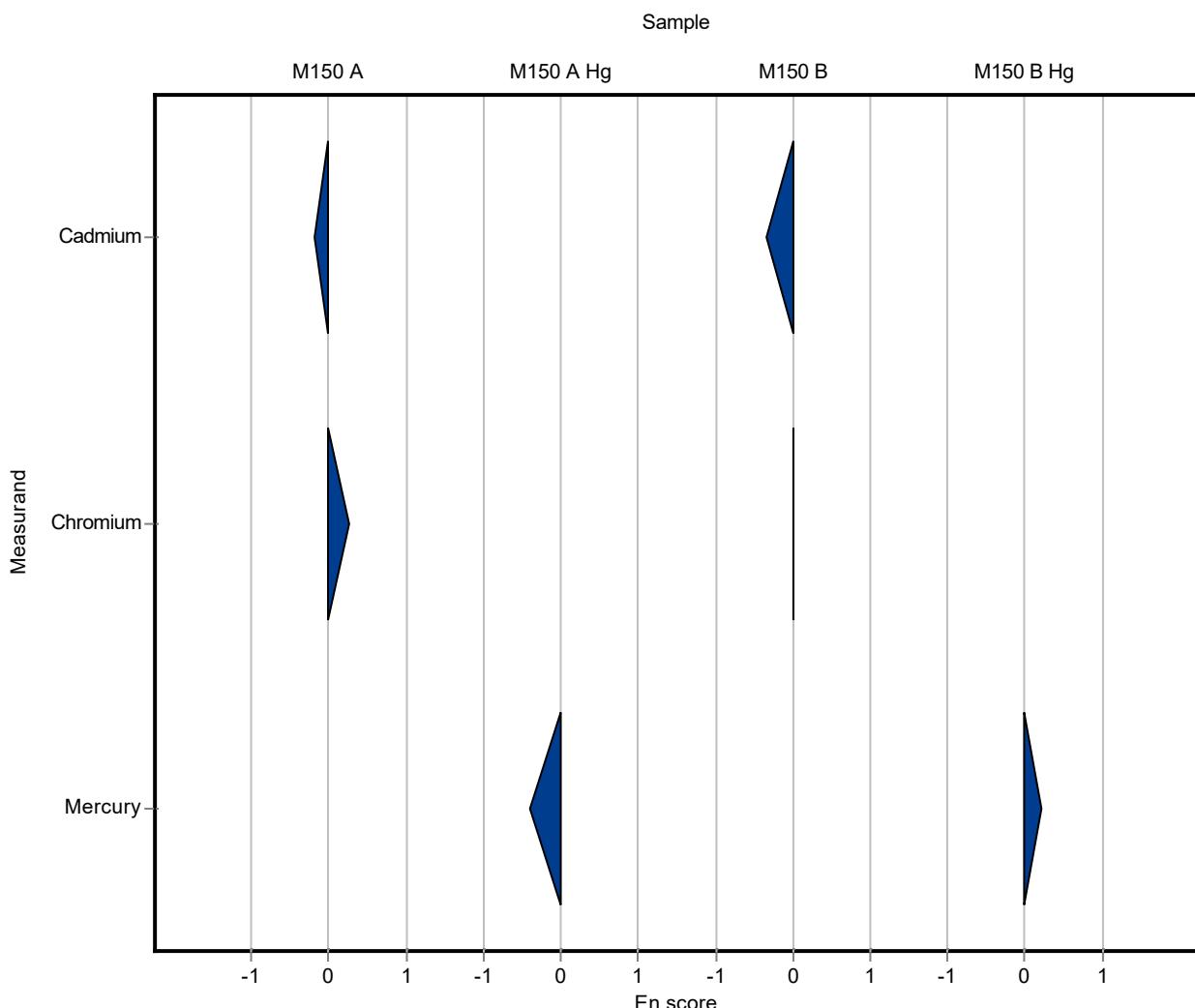
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	- $\pm$ -	25.7	-	-
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	- $\pm$ -	0.865	-	-
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.5169 $\pm$ 0.106	0.0588	87.9	-0.33
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.7248 $\pm$ 0.205	0.061	101	0.02
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	- $\pm$ -	6.92	-	-
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	- $\pm$ -	15.5	-	-
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	- $\pm$ -	0.379	-	-
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	- $\pm$ -	1.31	-	-
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	- $\pm$ -	2.68	-	-
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-
Zinc	µg/l	179 ± 4.18	- ± -	16.1	-

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.3117 ± 0.373	0.301	107	0.21



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	18.9 $\pm$ 0.307	2.48	114	0.95
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.37 $\pm$ 0.075	0.175	102	0.14
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.65 $\pm$ 0.05	0.55	103	0.28
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.85 $\pm$ 0.013	0.0776	93.1	-0.81
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	8.03 $\pm$ 0.071	0.668	108	0.91
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	254 $\pm$ 1.58	48.4	94.5	-0.30
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.627 $\pm$ 0.006	0.0844	111	0.77
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.5 $\pm$ 0.021	0.178	101	0.20
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.22 $\pm$ 0.047	0.265	100	0.04
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.02 $\pm$ 0.006	0.125	98.3	-0.15
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.908 $\pm$ 0.005	0.0615	97.4	-0.40
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	33.4 $\pm$ 0.233	2.74	110	1.06

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.783 $\pm$ 0.005	0.112	97.8	-0.15

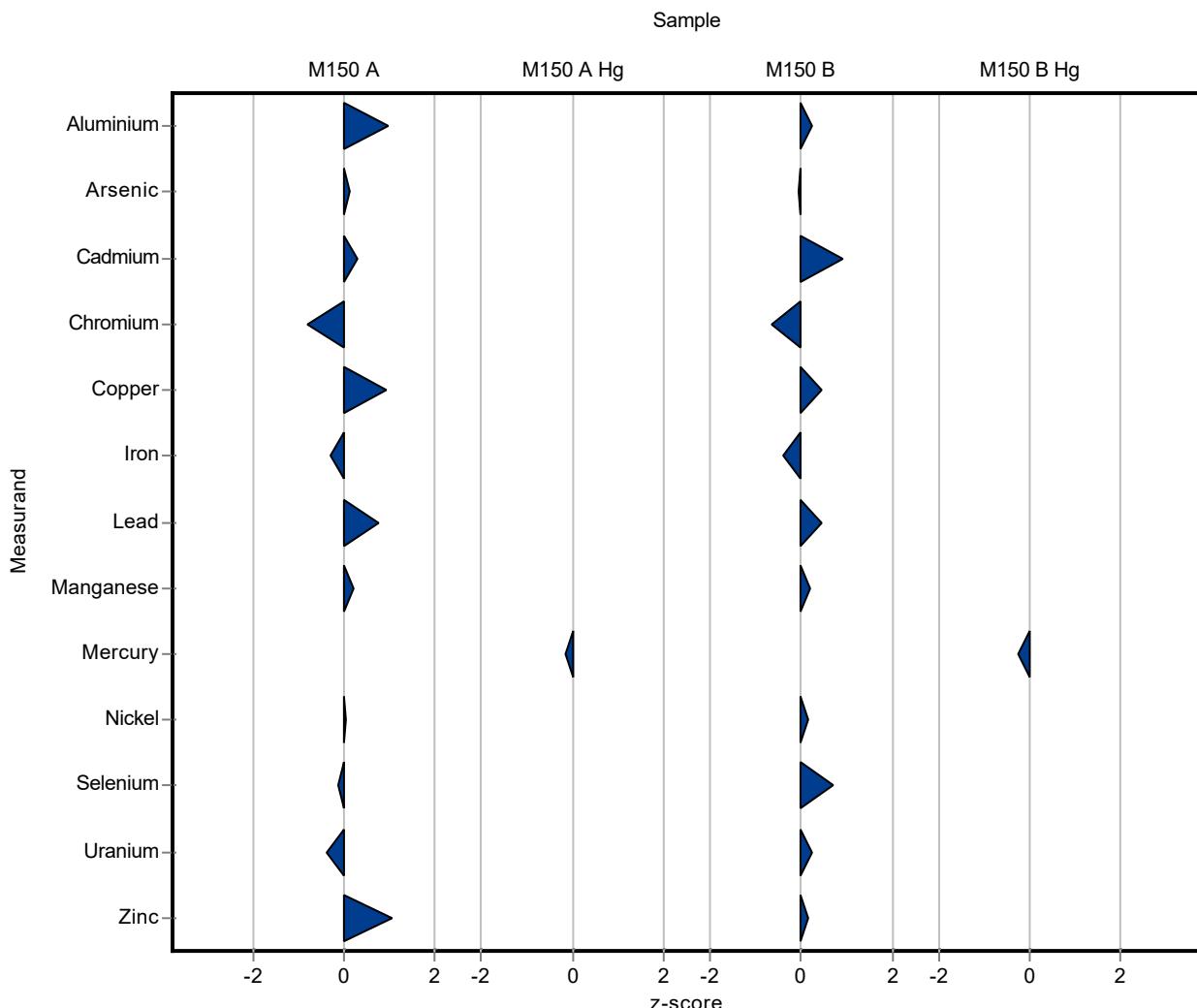
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	177 $\pm$ 8.94	25.7	103	0.22
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.62 $\pm$ 0.102	0.865	99.5	-0.04
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.641 $\pm$ 0.031	0.0588	109	0.91
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.679 $\pm$ 0.047	0.061	94.6	-0.64
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	80.1 $\pm$ 0.838	6.92	104	0.46
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	80.1 $\pm$ 0.568	15.5	92.9	-0.39
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.69 $\pm$ 0.046	0.379	107	0.44
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.4 $\pm$ 0.147	1.31	102	0.21
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22.8 $\pm$ 0.24	2.68	102	0.16
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.74 $\pm$ 0.186	0.414	108	0.70

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.21 ± 0.019	0.0785	102	0.26
Zinc	µg/l	179 ± 4.18	181 ± 2.33	16.1	101	0.15

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.08 ± 0.033	0.301	96.7	-0.24



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	18.9 $\pm$ 0.307	2.48	114	2.60
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.37 $\pm$ 0.075	0.175	102	0.16
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.65 $\pm$ 0.05	0.55	103	1.14
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.85 $\pm$ 0.013	0.0776	93.1	-1.19
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	8.03 $\pm$ 0.071	0.668	108	1.91
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	254 $\pm$ 1.58	48.4	94.5	-2.60
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.627 $\pm$ 0.006	0.0844	111	1.81
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.5 $\pm$ 0.021	0.178	101	0.35
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.22 $\pm$ 0.047	0.265	100	0.08
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.02 $\pm$ 0.006	0.125	98.3	-0.37
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.908 $\pm$ 0.005	0.0615	97.4	-1.08
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	33.4 $\pm$ 0.233	2.74	110	3.26

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.783 $\pm$ 0.005	0.112	97.8	-0.49

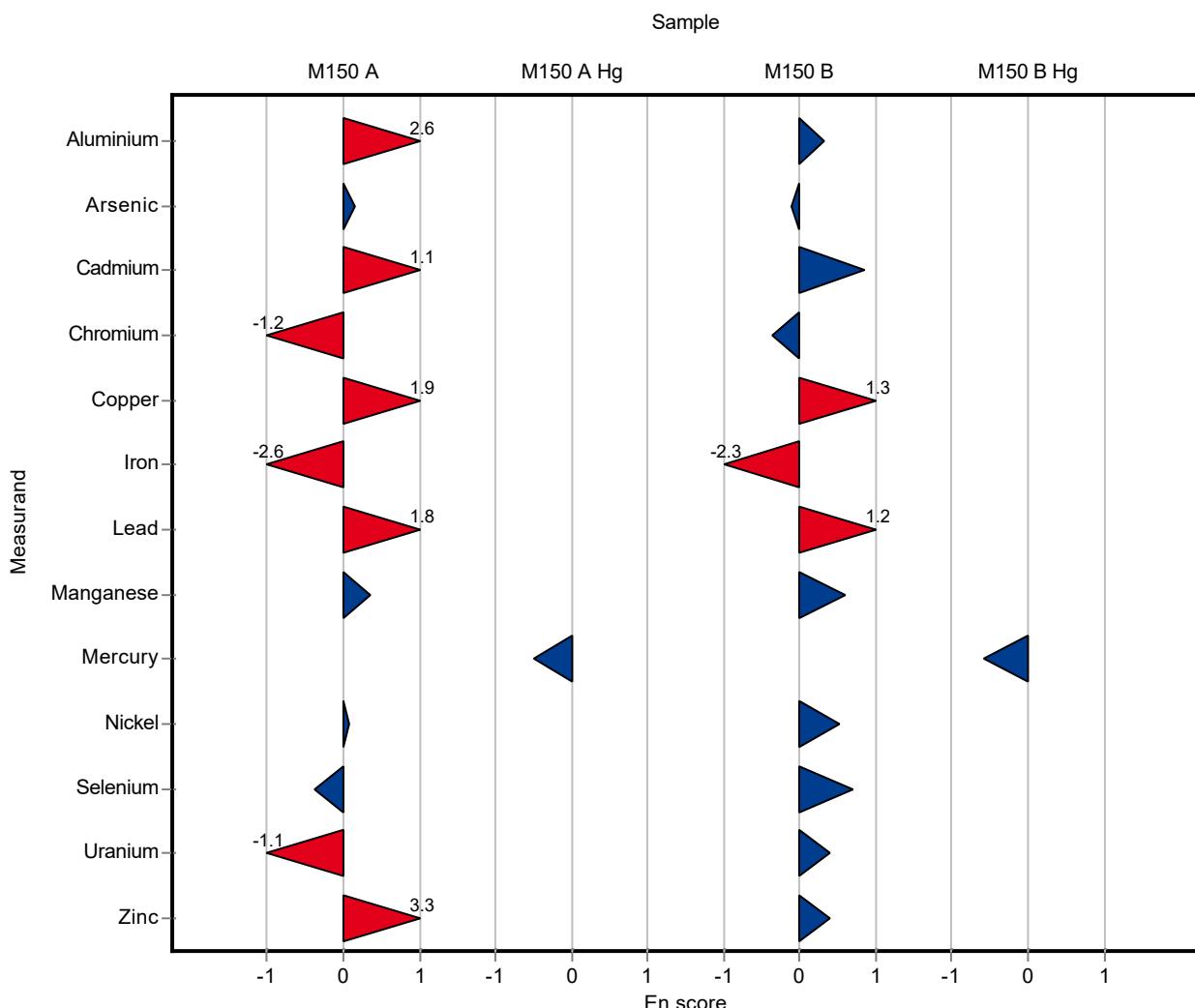
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	177 $\pm$ 8.94	25.7	103	0.32
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.62 $\pm$ 0.102	0.865	99.5	-0.11
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.641 $\pm$ 0.031	0.0588	109	0.84
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.679 $\pm$ 0.047	0.061	94.6	-0.37
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	80.1 $\pm$ 0.838	6.92	104	1.33
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	80.1 $\pm$ 0.568	15.5	92.9	-2.34
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.69 $\pm$ 0.046	0.379	107	1.24
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.4 $\pm$ 0.147	1.31	102	0.60
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22.8 $\pm$ 0.24	2.68	102	0.52
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.74 $\pm$ 0.186	0.414	108	0.70

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.21 ± 0.019	0.0785	102 0.39
Zinc	µg/l	179 ± 4.18	181 ± 2.33	16.1	101 0.39

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.08 ± 0.033	0.301	96.7 -0.58



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	17 $\pm$ 3.5	2.48	103	0.18
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	0.998 $\pm$ 0.07	0.175	74.2	-1.98
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.86 $\pm$ 0.64	0.55	107	0.66
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	6.21 $\pm$ 0.77	0.668	83.7	-1.82
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	261 $\pm$ 40	48.4	97.1	-0.16
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	1.76 $\pm$ 0.27	0.0844	313	14.20
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	1.6 $\pm$ 0.15	0.178	64.9	-4.88
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	1.44 $\pm$ 0.11	0.265	65.2	-2.90
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

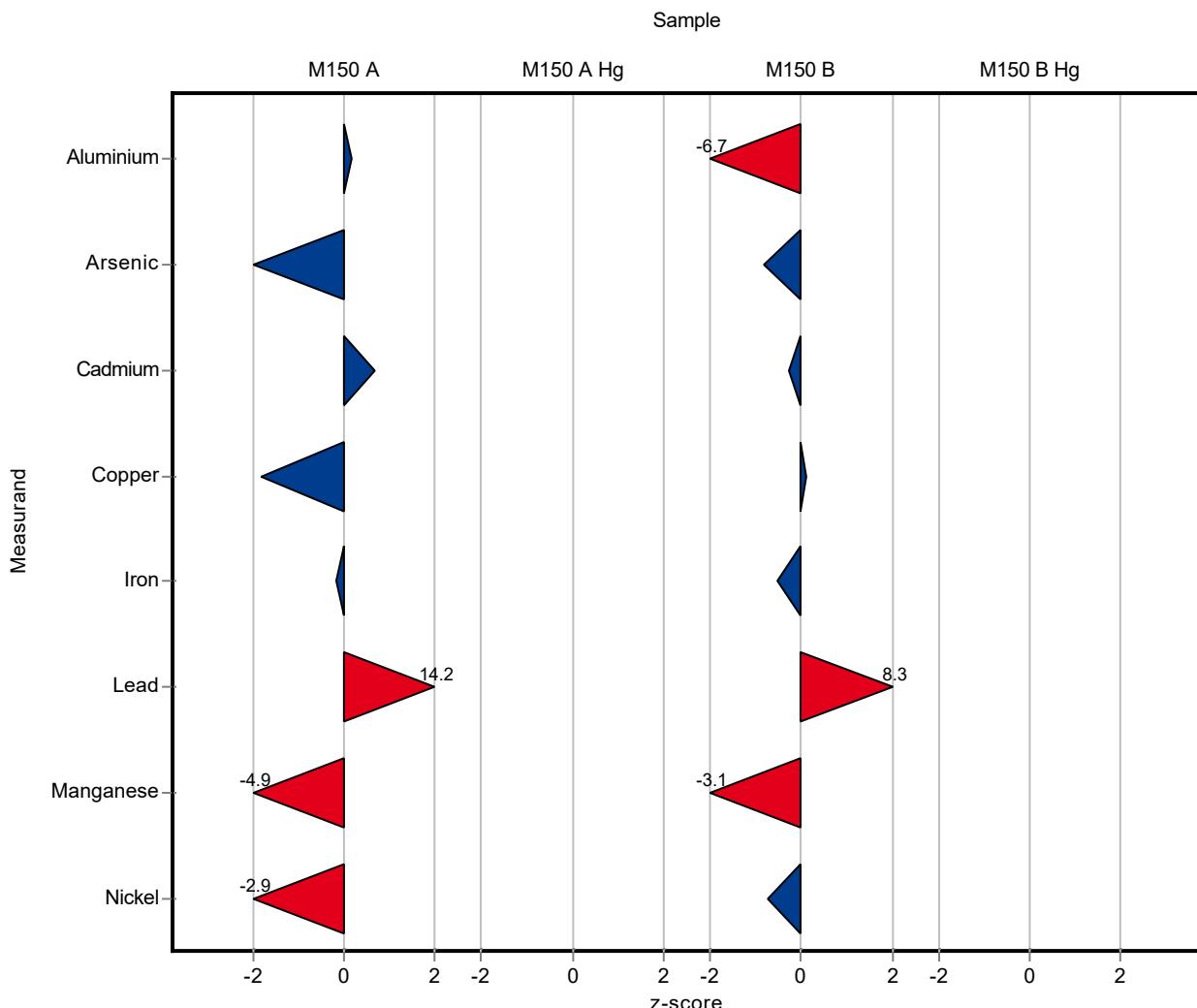
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	0.18 $\pm$ 0.032	25.7	0.105	-6.66
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	5.95 $\pm$ 0.62	0.865	89.5	-0.81
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.572 $\pm$ 0.09	0.0588	97.3	-0.27
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	77.74 $\pm$ 9.6	6.92	101	0.12
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	78.3 $\pm$ 11.7	15.5	90.9	-0.51
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	5.66 $\pm$ 0.85	0.379	224	8.28
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	14.1 $\pm$ 1.3	1.31	77.8	-3.09
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	20.45 $\pm$ 1.51	2.68	91.5	-0.71
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	- -
Zinc	µg/l	179 ± 4.18	- ± -	16.1	- -

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	- -



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	17 $\pm$ 3.5	2.48	103	0.06
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	0.998 $\pm$ 0.07	0.175	74.2	-2.40
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.86 $\pm$ 0.64	0.55	107	0.28
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	- $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	6.21 $\pm$ 0.77	0.668	83.7	-0.78
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	261 $\pm$ 40	48.4	97.1	-0.10
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	1.76 $\pm$ 0.27	0.0844	313	2.21
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	1.6 $\pm$ 0.15	0.178	64.9	-2.76
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	1.44 $\pm$ 0.11	0.265	65.2	-3.30
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	- $\pm$ -	2.74	-	-

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

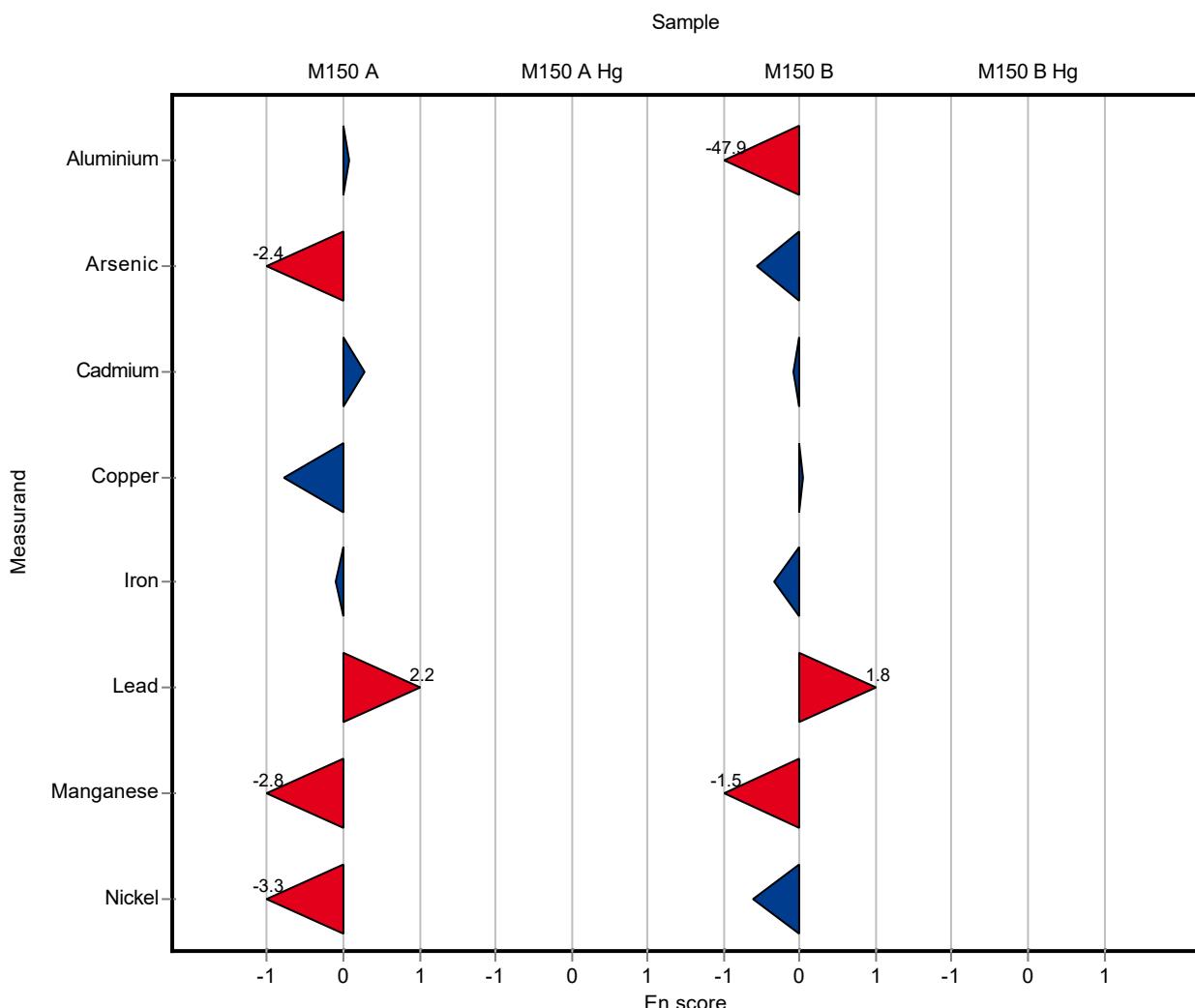
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	0.18 $\pm$ 0.032	25.7	0.105	-47.90
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	5.95 $\pm$ 0.62	0.865	89.5	-0.56
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.572 $\pm$ 0.09	0.0588	97.3	-0.09
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	- $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	77.74 $\pm$ 9.6	6.92	101	0.04
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	78.3 $\pm$ 11.7	15.5	90.9	-0.34
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	5.66 $\pm$ 0.85	0.379	224	1.84
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	14.1 $\pm$ 1.3	1.31	77.8	-1.54
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	20.45 $\pm$ 1.51	2.68	91.5	-0.62
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	- -
Zinc	µg/l	179 ± 4.18	- ± -	16.1	- -

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	- -



**Sample: M150A**

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	15.5 $\pm$ 0.6	2.48	93.7	-0.42
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.722 $\pm$ 0.018	0.175	128	2.16
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.572 $\pm$ 0.011	0.55	101	0.13
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	3.934 $\pm$ 0.012	0.0776	431	39.00
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.93 $\pm$ 0.2	0.668	107	0.76
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	297.1 $\pm$ 14.3	48.4	111	0.59
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.525 $\pm$ 0.025	0.0844	93.3	-0.44
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.584 $\pm$ 0.011	0.178	105	0.67
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.95 $\pm$ 0.121	0.265	133	2.79
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.388 $\pm$ 0.032	0.125	134	2.81
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.931 $\pm$ 0.009	0.0615	99.9	-0.02
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	29.73 $\pm$ 0.21	2.74	97.5	-0.28

**Sample: M150AHG**

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

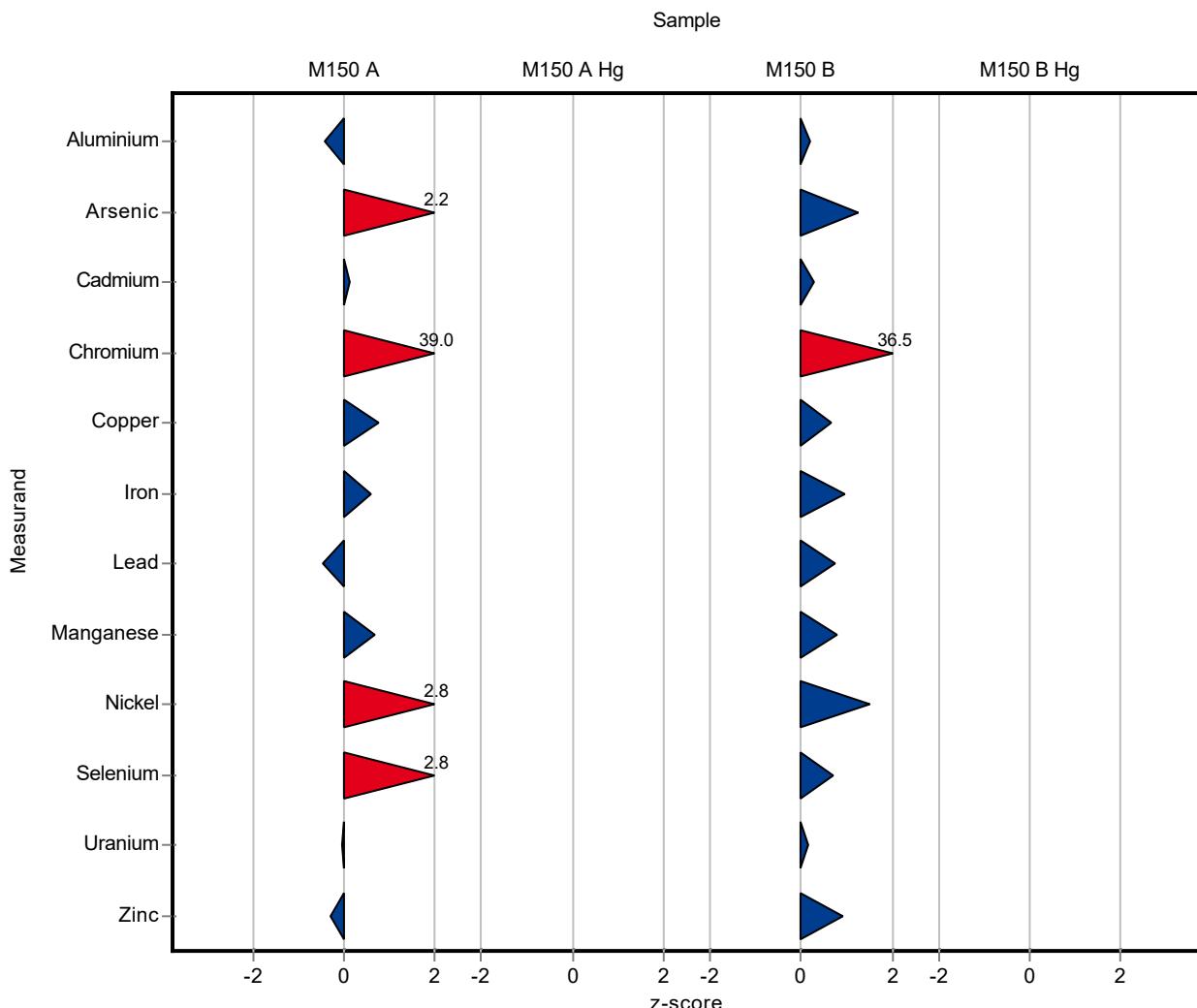
**Sample: M150B**

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	176 $\pm$ 5	25.7	103	0.18
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	7.727 $\pm$ 0.016	0.865	116	1.24
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.604 $\pm$ 0.013	0.0588	103	0.28
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	2.948 $\pm$ 0.068	0.061	411	36.50
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	81.38 $\pm$ 0.35	6.92	106	0.64
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	101.122 $\pm$ 3.383	15.5	117	0.96
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.803 $\pm$ 0.031	0.379	111	0.74
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	19.153 $\pm$ 0.764	1.31	106	0.79
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	26.339 $\pm$ 1.061	2.68	118	1.48
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.74 $\pm$ 0.026	0.414	108	0.70

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.202 ± 0.022	0.0785	101	0.15
Zinc	µg/l	179 ± 4.18	193.4 ± 2.3	16.1	108	0.93

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	-	-



Sample: M150A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	16.5 ± 0.665	15.5 ± 0.6	2.48	93.7	-0.76
Arsenic	µg/l	1.35 ± 0.037	1.722 ± 0.018	0.175	128	7.30
Cadmium	µg/l	5.5 ± 0.0883	5.572 ± 0.011	0.55	101	0.81
Chromium	µg/l	0.913 ± 0.0459	3.934 ± 0.012	0.0776	431	58.30
Copper	µg/l	7.42 ± 0.284	7.93 ± 0.2	0.668	107	1.03
Iron	µg/l	269 ± 4.67	297.1 ± 14.3	48.4	111	0.98
Lead	µg/l	0.562 ± 0.0335	0.525 ± 0.025	0.0844	93.3	-0.62
Manganese	µg/l	2.47 ± 0.0899	2.584 ± 0.011	0.178	105	1.28
Nickel	µg/l	2.21 ± 0.0769	2.95 ± 0.121	0.265	133	2.91
Selenium	µg/l	1.04 ± 0.0472	1.388 ± 0.032	0.125	134	4.40
Uranium	µg/l	0.932 ± 0.0203	0.931 ± 0.009	0.0615	99.9	-0.05
Zinc	µg/l	30.5 ± 0.763	29.73 ± 0.21	2.74	97.5	-0.87

Sample: M150AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.8 ± 0.0338	- ± -	0.112	-	-

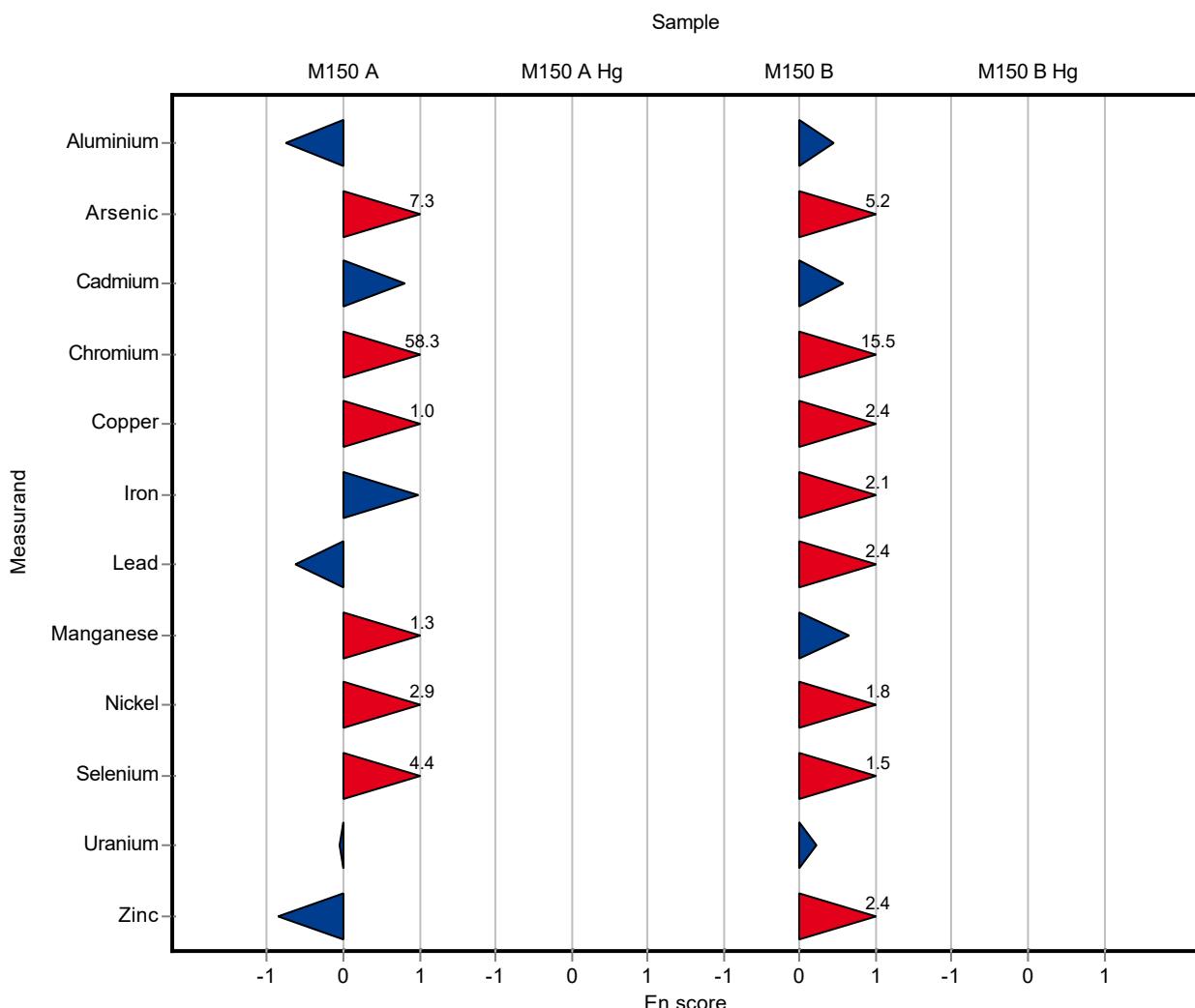
Sample: M150B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	171 ± 3.57	176 ± 5	25.7	103	0.45
Arsenic	µg/l	6.65 ± 0.205	7.727 ± 0.016	0.865	116	5.18
Cadmium	µg/l	0.588 ± 0.0125	0.604 ± 0.013	0.0588	103	0.56
Chromium	µg/l	0.718 ± 0.0472	2.948 ± 0.068	0.061	411	15.50
Copper	µg/l	76.9 ± 1.7	81.38 ± 0.35	6.92	106	2.43
Iron	µg/l	86.2 ± 2.34	101.122 ± 3.383	15.5	117	2.09
Lead	µg/l	2.52 ± 0.0972	2.803 ± 0.031	0.379	111	2.42
Manganese	µg/l	18.1 ± 0.349	19.153 ± 0.764	1.31	106	0.65
Nickel	µg/l	22.4 ± 0.703	26.339 ± 1.061	2.68	118	1.78
Selenium	µg/l	3.45 ± 0.179	3.74 ± 0.026	0.414	108	1.55

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.202 ± 0.022	0.0785	101 0.21
Zinc	µg/l	179 ± 4.18	193.4 ± 2.3	16.1	108 2.39

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	- -



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	17.2 $\pm$ 1.2	2.48	104	0.26
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.31 $\pm$ 0.09	0.175	97.4	-0.20
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.55 $\pm$ 0.39	0.55	101	0.09
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.847 $\pm$ 0.059	0.0776	92.8	-0.85
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.16 $\pm$ 0.5	0.668	96.5	-0.39
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	249 $\pm$ 17	48.4	92.7	-0.41
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.605 $\pm$ 0.05	0.0844	108	0.51
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.37 $\pm$ 0.1	0.178	96.1	-0.54
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.13 $\pm$ 0.15	0.265	96.4	-0.30
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.946 $\pm$ 0.066	0.0615	101	0.22
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	28.1 $\pm$ 2	2.74	92.2	-0.87

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.818 $\pm$ 0.12	0.112	102	0.16

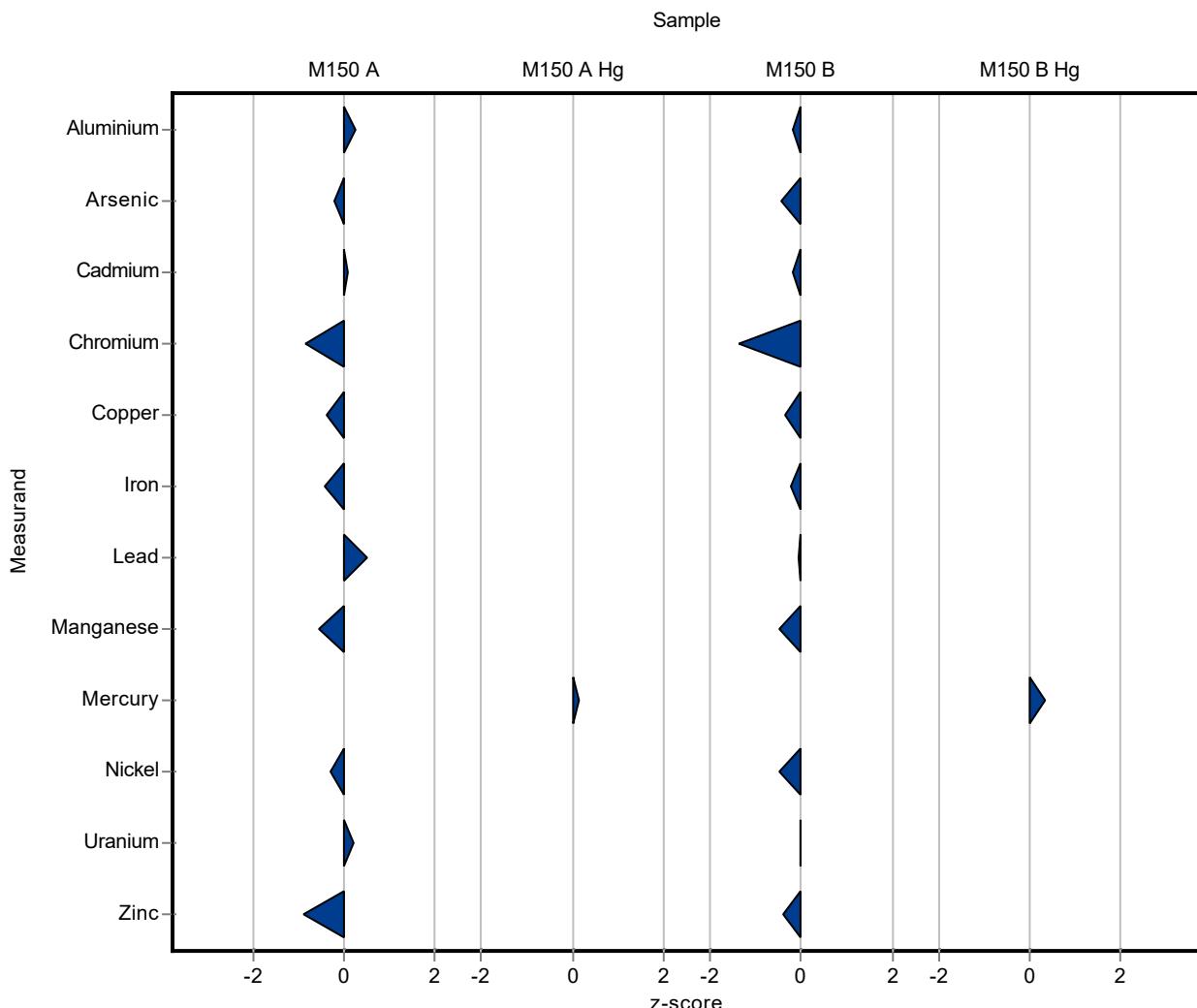
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	167 $\pm$ 12	25.7	97.5	-0.17
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.26 $\pm$ 0.44	0.865	94.1	-0.45
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.578 $\pm$ 0.04	0.0588	98.3	-0.17
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.634 $\pm$ 0.05	0.061	88.3	-1.38
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	74.6 $\pm$ 5.2	6.92	97	-0.34
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	82.7 $\pm$ 5.8	15.5	96	-0.22
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.5 $\pm$ 0.18	0.379	99	-0.06
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.5 $\pm$ 1.2	1.31	96.5	-0.48
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	21.1 $\pm$ 1.5	2.68	94.4	-0.47
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.19 ± 0.08	0.0785	100	0.00
Zinc	µg/l	179 ± 4.18	172 ± 12	16.1	96.3	-0.41

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.25 ± 0.34	0.301	105	0.33



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	17.2 $\pm$ 1.2	2.48	104	0.26
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.31 $\pm$ 0.09	0.175	97.4	-0.19
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.55 $\pm$ 0.39	0.55	101	0.07
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.847 $\pm$ 0.059	0.0776	92.8	-0.52
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.16 $\pm$ 0.5	0.668	96.5	-0.25
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	249 $\pm$ 17	48.4	92.7	-0.57
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.605 $\pm$ 0.05	0.0844	108	0.40
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.37 $\pm$ 0.1	0.178	96.1	-0.43
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.13 $\pm$ 0.15	0.265	96.4	-0.26
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	- $\pm$ -	0.125	-	-
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.946 $\pm$ 0.066	0.0615	101	0.10
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	28.1 $\pm$ 2	2.74	92.2	-0.59

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.818 $\pm$ 0.12	0.112	102	0.07

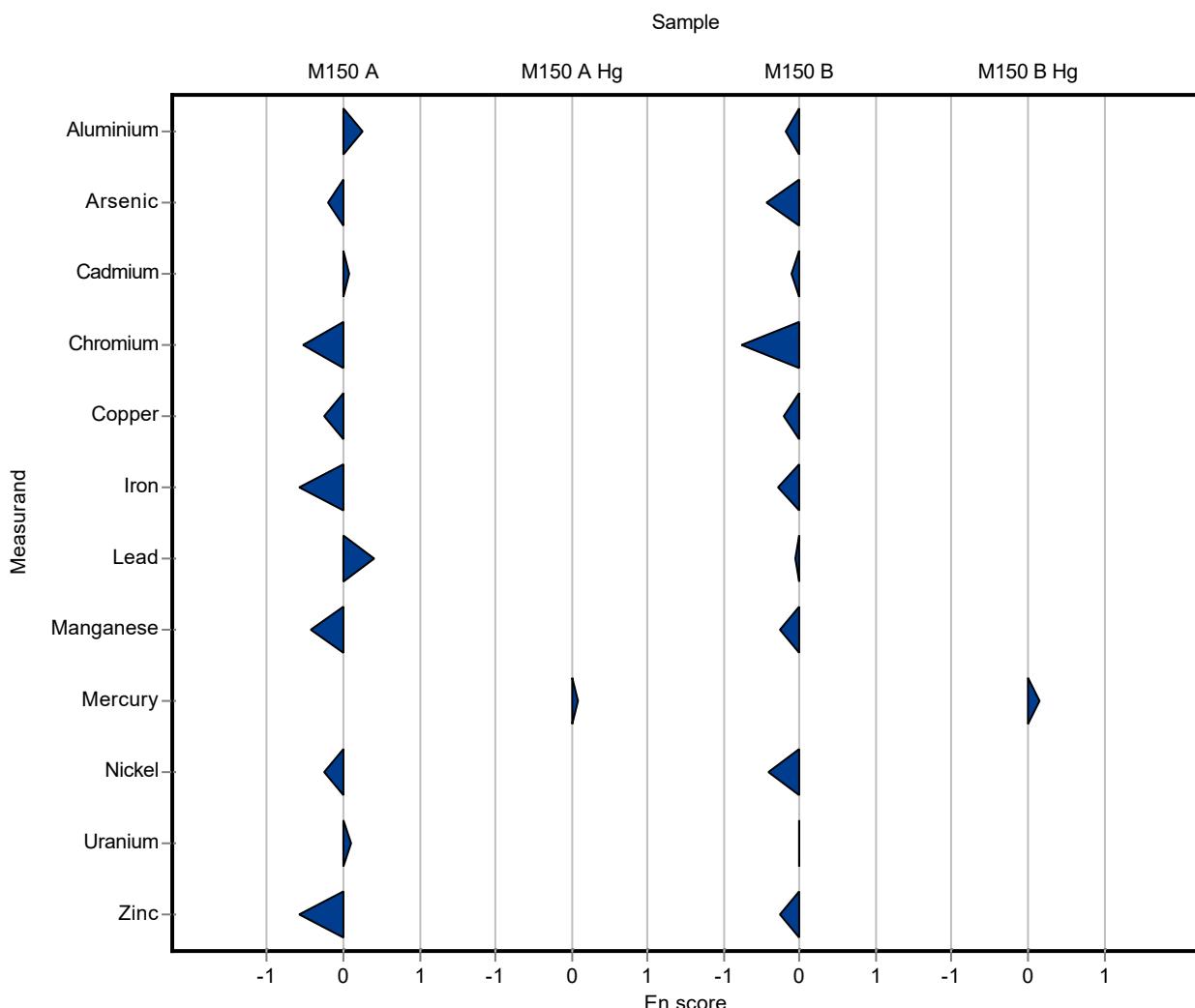
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	167 $\pm$ 12	25.7	97.5	-0.17
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.26 $\pm$ 0.44	0.865	94.1	-0.43
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.578 $\pm$ 0.04	0.0588	98.3	-0.12
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.634 $\pm$ 0.05	0.061	88.3	-0.76
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	74.6 $\pm$ 5.2	6.92	97	-0.22
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	82.7 $\pm$ 5.8	15.5	96	-0.29
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.5 $\pm$ 0.18	0.379	99	-0.06
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	17.5 $\pm$ 1.2	1.31	96.5	-0.26
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	21.1 $\pm$ 1.5	2.68	94.4	-0.41
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	- $\pm$ -	0.414	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.19 ± 0.08	0.0785	100 0.00
Zinc	µg/l	179 ± 4.18	172 ± 12	16.1	96.3 -0.27

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.25 ± 0.34	0.301	105 0.14



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	17.2 $\pm$ 2.57	2.48	104	0.26
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.32 $\pm$ 0.132	0.175	98.1	-0.14
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.82 $\pm$ 0.582	0.55	106	0.58
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.88 $\pm$ 0.088	0.0776	96.4	-0.42
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.5 $\pm$ 1.13	0.668	101	0.12
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	278 $\pm$ 27.8	48.4	103	0.19
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.566 $\pm$ 0.0848	0.0844	101	0.04
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.38 $\pm$ 0.238	0.178	96.5	-0.48
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.24 $\pm$ 0.337	0.265	101	0.11
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.01 $\pm$ 0.101	0.125	97.3	-0.23
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.934 $\pm$ 0.141	0.0615	100	0.03
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	33.1 $\pm$ 4.97	2.74	109	0.95

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.679 $\pm$ 0.102	0.112	84.8	-1.08

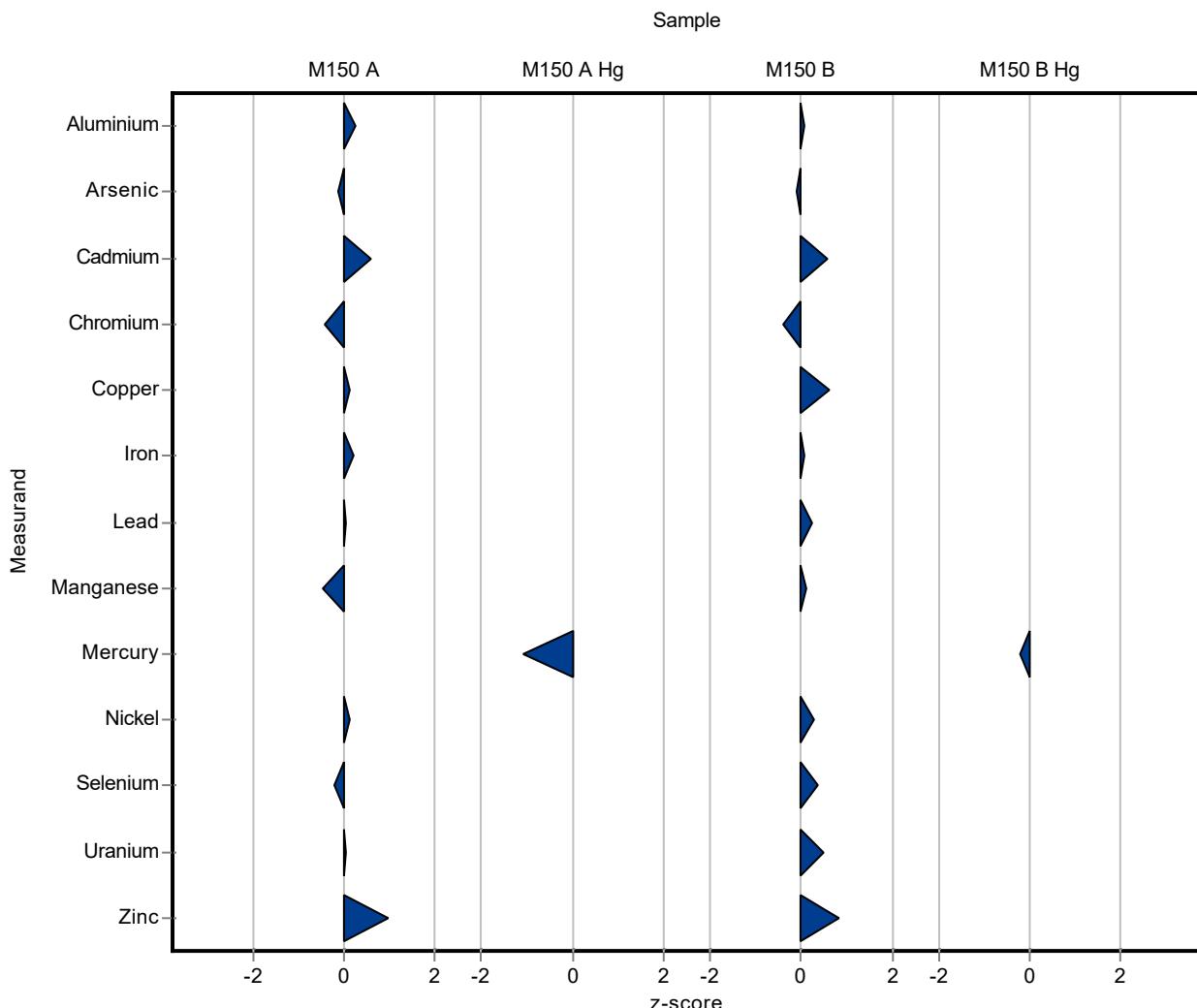
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	173 $\pm$ 26	25.7	101	0.07
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.56 $\pm$ 0.656	0.865	98.6	-0.10
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.622 $\pm$ 0.0622	0.0588	106	0.58
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.695 $\pm$ 0.0695	0.061	96.8	-0.38
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	81.2 $\pm$ 12.2	6.92	106	0.62
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	87.2 $\pm$ 8.72	15.5	101	0.07
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.62 $\pm$ 0.392	0.379	104	0.25
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.3 $\pm$ 1.83	1.31	101	0.13
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	23.1 $\pm$ 3.47	2.68	103	0.28
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.61 $\pm$ 0.361	0.414	105	0.38

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.23 ± 0.184	0.0785	103	0.51
Zinc	µg/l	179 ± 4.18	192 ± 28.7	16.1	108	0.84

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.09 ± 0.313	0.301	97.1	-0.20



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	17.2 $\pm$ 2.57	2.48	104	0.13
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.32 $\pm$ 0.132	0.175	98.1	-0.09
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.82 $\pm$ 0.582	0.55	106	0.28
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.88 $\pm$ 0.088	0.0776	96.4	-0.18
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.5 $\pm$ 1.13	0.668	101	0.03
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	278 $\pm$ 27.8	48.4	103	0.17
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	0.566 $\pm$ 0.0848	0.0844	101	0.02
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.38 $\pm$ 0.238	0.178	96.5	-0.18
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.24 $\pm$ 0.337	0.265	101	0.04
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.01 $\pm$ 0.101	0.125	97.3	-0.14
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	0.934 $\pm$ 0.141	0.0615	100	0.01
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	33.1 $\pm$ 4.97	2.74	109	0.26

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.679 $\pm$ 0.102	0.112	84.8	-0.59

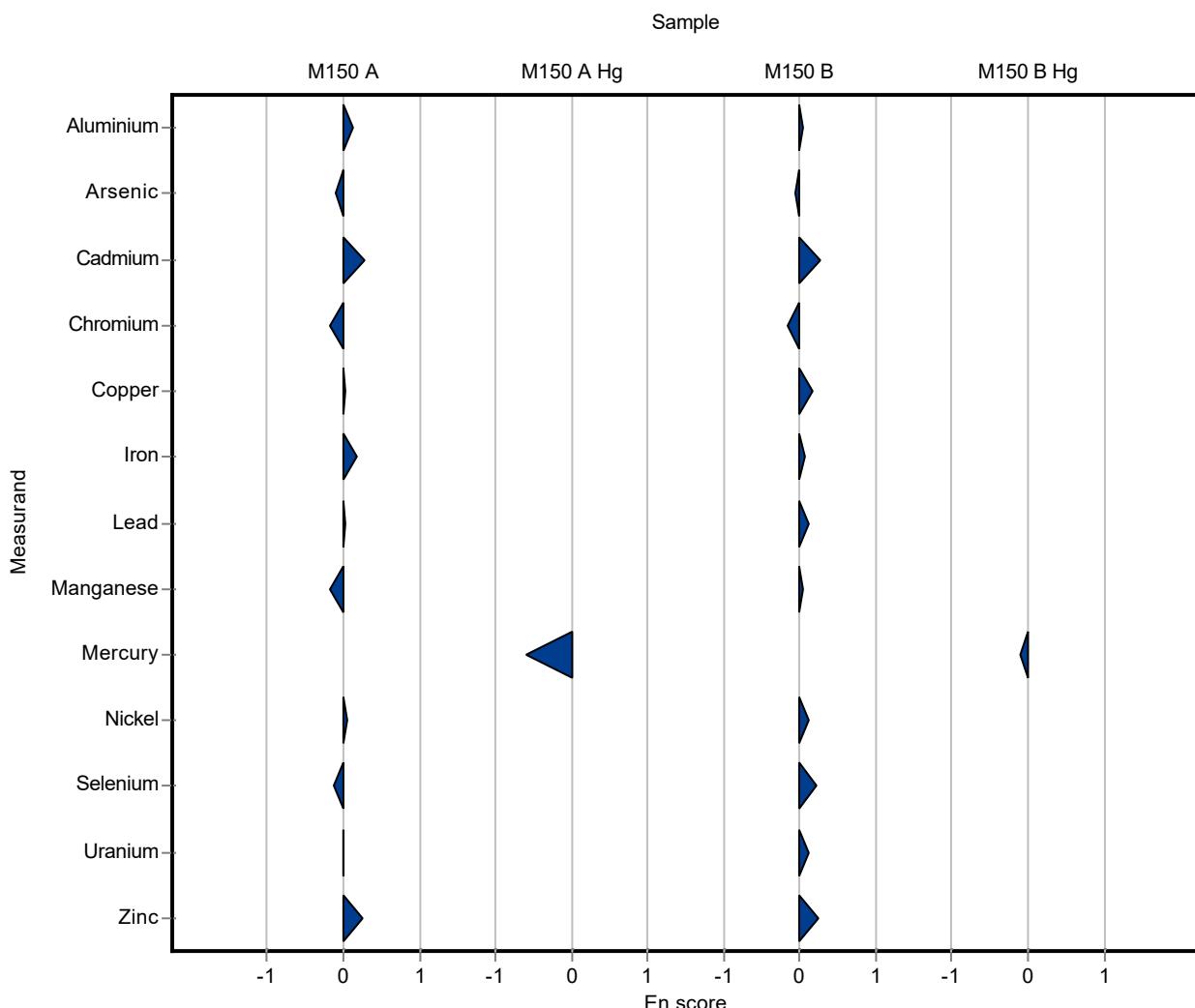
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	En-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	173 $\pm$ 26	25.7	101	0.03
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.56 $\pm$ 0.656	0.865	98.6	-0.07
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.622 $\pm$ 0.0622	0.0588	106	0.27
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.695 $\pm$ 0.0695	0.061	96.8	-0.16
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	81.2 $\pm$ 12.2	6.92	106	0.17
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	87.2 $\pm$ 8.72	15.5	101	0.06
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.62 $\pm$ 0.392	0.379	104	0.12
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.3 $\pm$ 1.83	1.31	101	0.05
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	23.1 $\pm$ 3.47	2.68	103	0.11
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.61 $\pm$ 0.361	0.414	105	0.21

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.23 ± 0.184	0.0785	103 0.11
Zinc	µg/l	179 ± 4.18	192 ± 28.7	16.1	108 0.23

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.09 ± 0.313	0.301	97.1 -0.10



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	20 $\pm$ 0.4	2.48	121	1.39
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.04 $\pm$ 0.0208	0.175	77.3	-1.74
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.15 $\pm$ 0.103	0.55	93.7	-0.63
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	0.6 $\pm$ 0.012	0.0776	65.7	-4.03
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	6 $\pm$ 0.12	0.668	80.8	-2.13
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	268 $\pm$ 5.36	48.4	99.7	-0.01
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	3.9 $\pm$ 0.078	0.0844	693	39.60
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	3.2 $\pm$ 0.064	0.178	130	4.14
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	1.6 $\pm$ 0.032	0.265	72.4	-2.30
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1.16 $\pm$ 0.0232	0.125	112	0.98
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	- $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	31.8 $\pm$ 0.636	2.74	104	0.48

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	- $\pm$ -	0.112	-	-

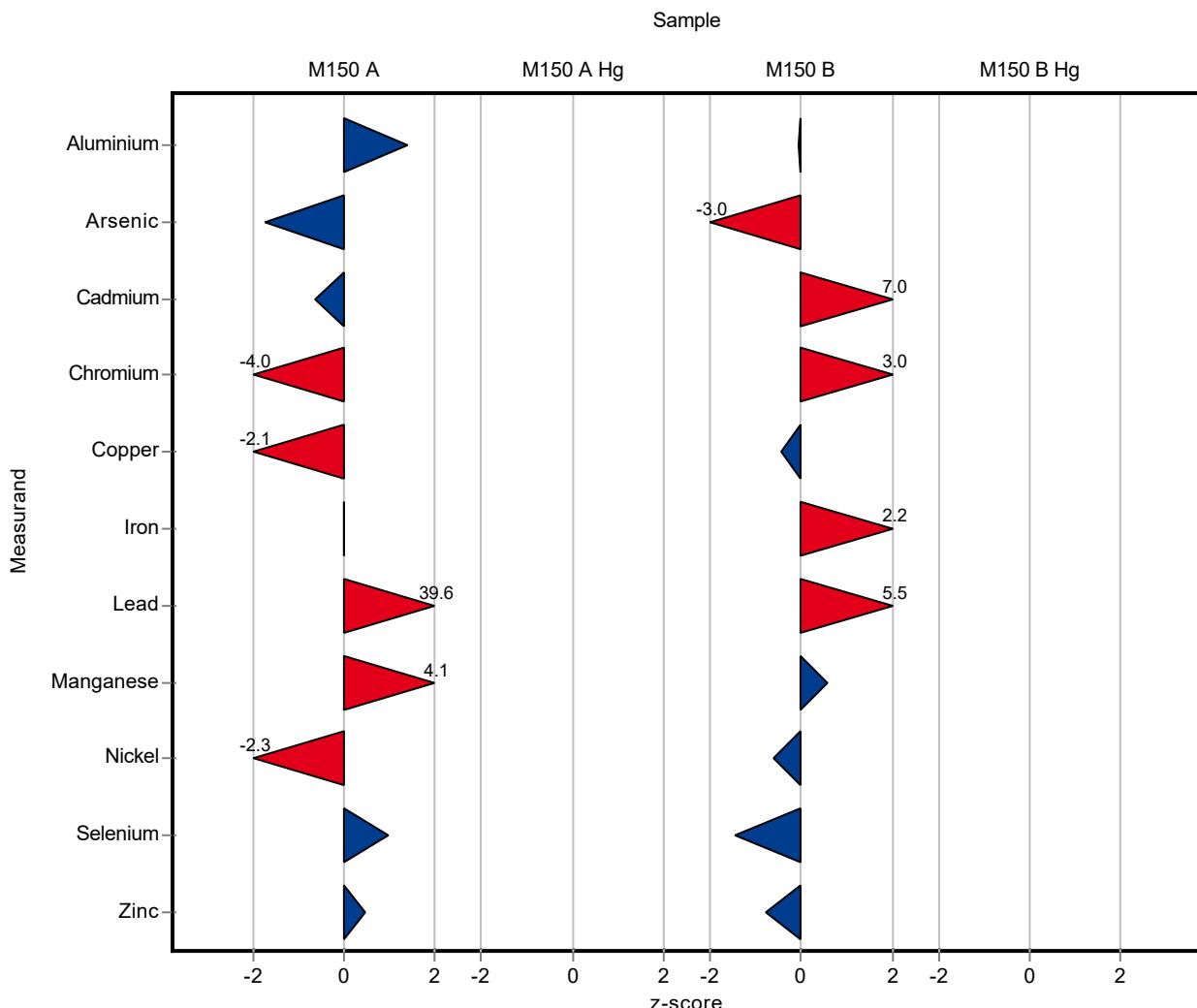
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	170 $\pm$ 3.4	25.7	99.3	-0.05
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	4.1 $\pm$ 0.082	0.865	61.6	-2.95
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	1 $\pm$ 0.02	0.0588	170	7.01
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	0.9 $\pm$ 0.018	0.061	125	2.98
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	74 $\pm$ 1.48	6.92	96.2	-0.42
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	120 $\pm$ 2.4	15.5	139	2.18
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	4.6 $\pm$ 0.092	0.379	182	5.48
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	18.9 $\pm$ 0.378	1.31	104	0.59
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	20.7 $\pm$ 0.414	2.68	92.6	-0.62
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	2.85 $\pm$ 0.057	0.414	82.6	-1.45

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-	-
Zinc	µg/l	179 ± 4.18	166.4 ± 3.328	16.1	93.2	-0.76

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	-	-



Sample: M150A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	16.5 ± 0.665	20 ± 0.4	2.48	121	3.32
Arsenic	µg/l	1.35 ± 0.037	1.04 ± 0.0208	0.175	77.3	-5.48
Cadmium	µg/l	5.5 ± 0.0883	5.15 ± 0.103	0.55	93.7	-1.55
Chromium	µg/l	0.913 ± 0.0459	0.6 ± 0.012	0.0776	65.7	-6.04
Copper	µg/l	7.42 ± 0.284	6 ± 0.12	0.668	80.8	-3.83
Iron	µg/l	269 ± 4.67	268 ± 5.36	48.4	99.7	-0.06
Lead	µg/l	0.562 ± 0.0335	3.9 ± 0.078	0.0844	693	20.90
Manganese	µg/l	2.47 ± 0.0899	3.2 ± 0.064	0.178	130	4.70
Nickel	µg/l	2.21 ± 0.0769	1.6 ± 0.032	0.265	72.4	-6.10
Selenium	µg/l	1.04 ± 0.0472	1.16 ± 0.0232	0.125	112	1.84
Uranium	µg/l	0.932 ± 0.0203	- ± -	0.0615	-	-
Zinc	µg/l	30.5 ± 0.763	31.8 ± 0.636	2.74	104	0.88

Sample: M150AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.8 ± 0.0338	- ± -	0.112	-	-

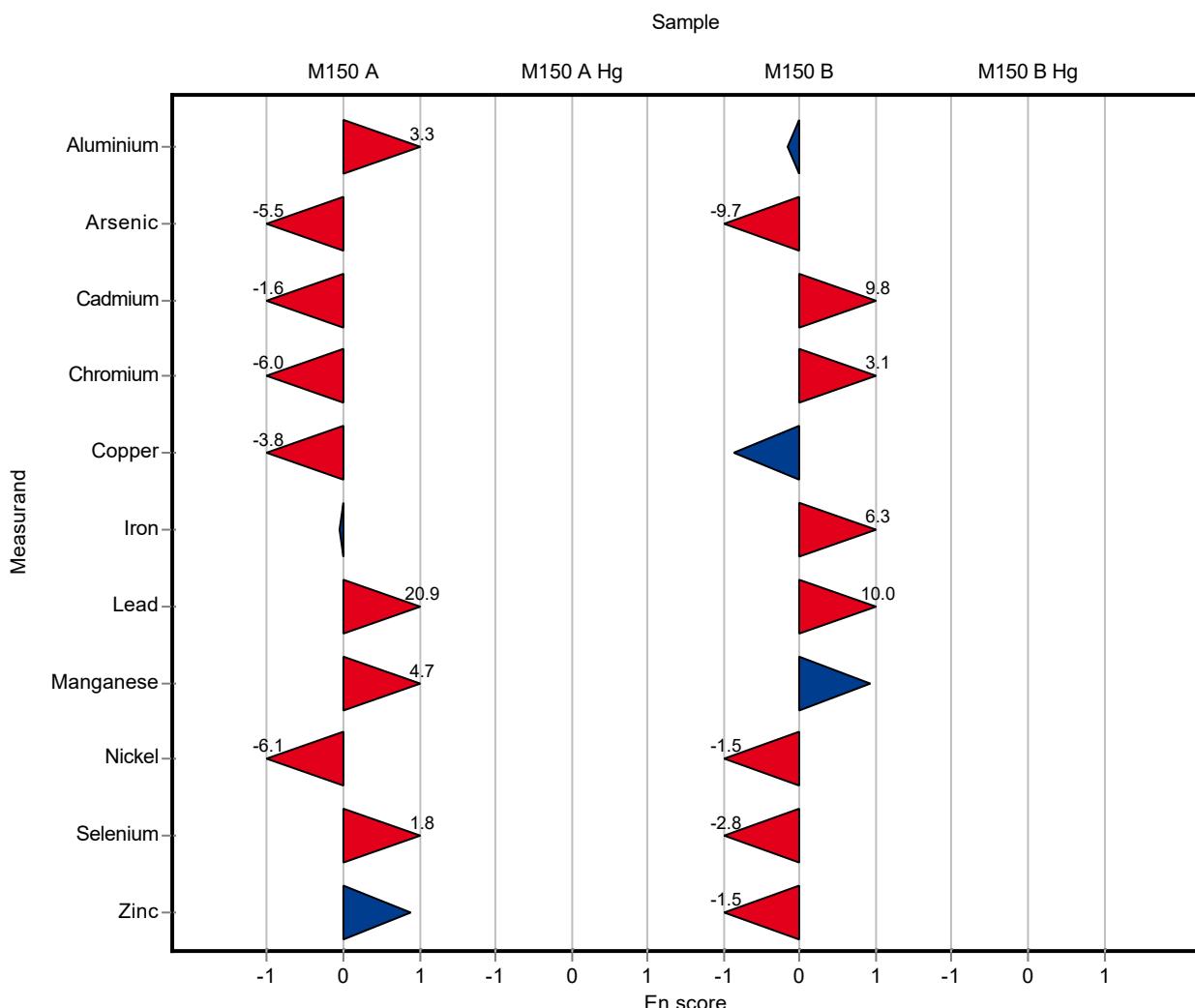
Sample: M150B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	171 ± 3.57	170 ± 3.4	25.7	99.3	-0.16
Arsenic	µg/l	6.65 ± 0.205	4.1 ± 0.082	0.865	61.6	-9.70
Cadmium	µg/l	0.588 ± 0.0125	1 ± 0.02	0.0588	170	9.84
Chromium	µg/l	0.718 ± 0.0472	0.9 ± 0.018	0.061	125	3.06
Copper	µg/l	76.9 ± 1.7	74 ± 1.48	6.92	96.2	-0.86
Iron	µg/l	86.2 ± 2.34	120 ± 2.4	15.5	139	6.34
Lead	µg/l	2.52 ± 0.0972	4.6 ± 0.092	0.379	182	9.98
Manganese	µg/l	18.1 ± 0.349	18.9 ± 0.378	1.31	104	0.93
Nickel	µg/l	22.4 ± 0.703	20.7 ± 0.414	2.68	92.6	-1.53
Selenium	µg/l	3.45 ± 0.179	2.85 ± 0.057	0.414	82.6	-2.83

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score	
Uranium	µg/l	1.19 ± 0.0357	- ± -	0.0785	-	
Zinc	µg/l	179 ± 4.18	166.4 ± 3.328	16.1	93.2	-1.54

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	- ± -	0.301	-	-



Sample: M150A

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	16.5 $\pm$ 0.665	15 $\pm$ 3	2.48	90.7	-0.62
Arsenic	$\mu\text{g/l}$	1.35 $\pm$ 0.037	1.4 $\pm$ 0.28	0.175	104	0.31
Cadmium	$\mu\text{g/l}$	5.5 $\pm$ 0.0883	5.7 $\pm$ 1.14	0.55	104	0.37
Chromium	$\mu\text{g/l}$	0.913 $\pm$ 0.0459	<1 (LOQ) $\pm$ -	0.0776	-	-
Copper	$\mu\text{g/l}$	7.42 $\pm$ 0.284	7.8 $\pm$ 1.56	0.668	105	0.56
Iron	$\mu\text{g/l}$	269 $\pm$ 4.67	270 $\pm$ 54	48.4	100	0.03
Lead	$\mu\text{g/l}$	0.562 $\pm$ 0.0335	<1 (LOQ) $\pm$ -	0.0844	-	-
Manganese	$\mu\text{g/l}$	2.47 $\pm$ 0.0899	2.7 $\pm$ 0.54	0.178	110	1.32
Nickel	$\mu\text{g/l}$	2.21 $\pm$ 0.0769	2.2 $\pm$ 0.44	0.265	99.5	-0.04
Selenium	$\mu\text{g/l}$	1.04 $\pm$ 0.0472	1 $\pm$ 0.2	0.125	96.3	-0.31
Uranium	$\mu\text{g/l}$	0.932 $\pm$ 0.0203	<1 (LOQ) $\pm$ -	0.0615	-	-
Zinc	$\mu\text{g/l}$	30.5 $\pm$ 0.763	30 $\pm$ 6	2.74	98.4	-0.18

Sample: M150AHG

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Mercury	$\mu\text{g/l}$	0.8 $\pm$ 0.0338	0.83 $\pm$ 0.17	0.112	104	0.27

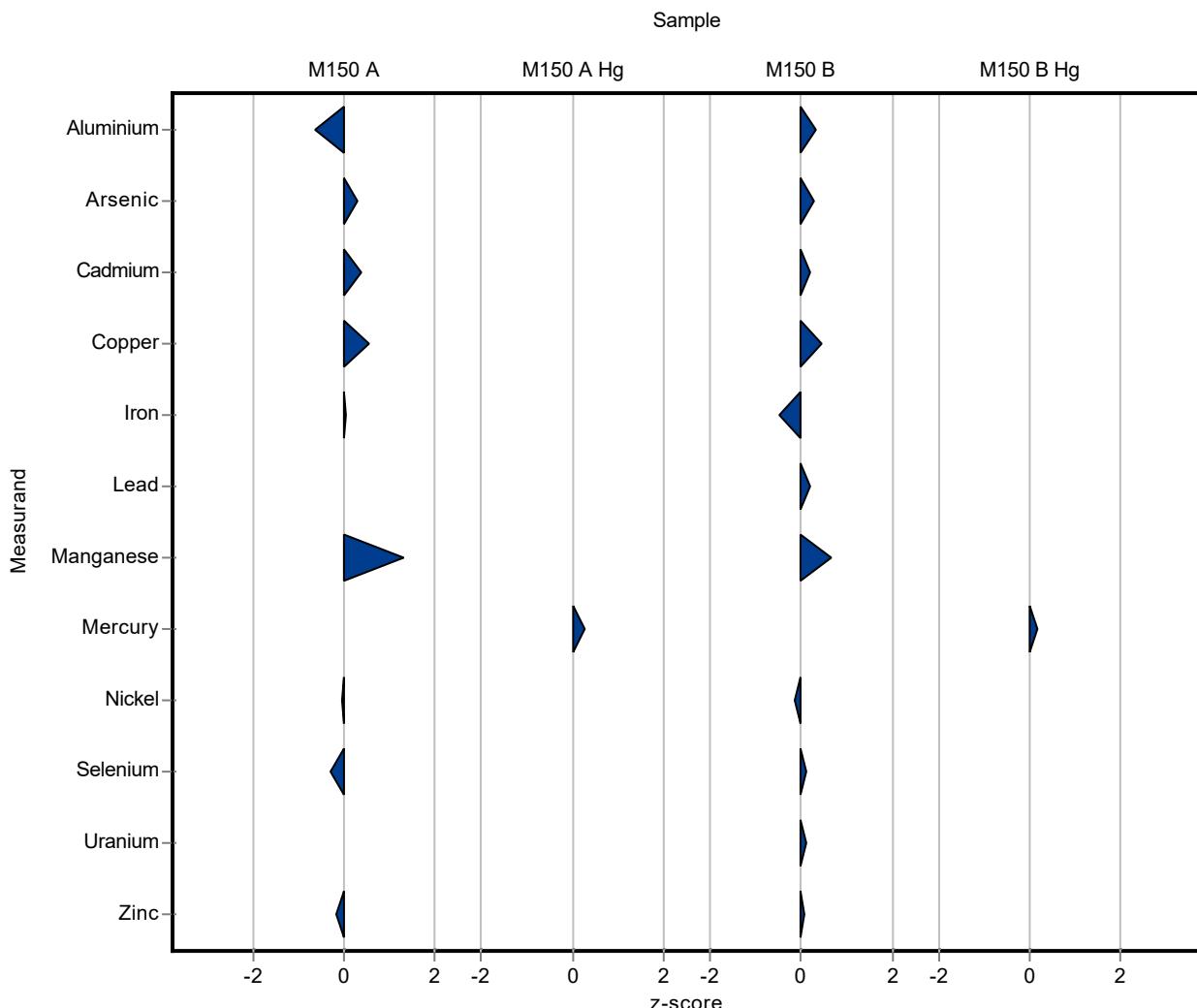
Sample: M150B

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Aluminium	$\mu\text{g/l}$	171 $\pm$ 3.57	180 $\pm$ 36	25.7	105	0.34
Arsenic	$\mu\text{g/l}$	6.65 $\pm$ 0.205	6.9 $\pm$ 1.38	0.865	104	0.29
Cadmium	$\mu\text{g/l}$	0.588 $\pm$ 0.0125	0.6 $\pm$ 0.12	0.0588	102	0.21
Chromium	$\mu\text{g/l}$	0.718 $\pm$ 0.0472	<1 (LOQ) $\pm$ -	0.061	-	-
Copper	$\mu\text{g/l}$	76.9 $\pm$ 1.7	80 $\pm$ 16	6.92	104	0.44
Iron	$\mu\text{g/l}$	86.2 $\pm$ 2.34	79 $\pm$ 15.8	15.5	91.7	-0.46
Lead	$\mu\text{g/l}$	2.52 $\pm$ 0.0972	2.6 $\pm$ 0.52	0.379	103	0.20
Manganese	$\mu\text{g/l}$	18.1 $\pm$ 0.349	19 $\pm$ 3.8	1.31	105	0.67
Nickel	$\mu\text{g/l}$	22.4 $\pm$ 0.703	22 $\pm$ 4.4	2.68	98.4	-0.13
Selenium	$\mu\text{g/l}$	3.45 $\pm$ 0.179	3.5 $\pm$ 0.7	0.414	101	0.12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Uranium	µg/l	1.19 ± 0.0357	1.2 ± 0.24	0.0785	101	0.13
Zinc	µg/l	179 ± 4.18	180 ± 36	16.1	101	0.09

### Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.15 ± 0.103	2.2 ± 0.44	0.301	102	0.16



Sample: M150A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	16.5 ± 0.665	15 ± 3	2.48	90.7	-0.26
Arsenic	µg/l	1.35 ± 0.037	1.4 ± 0.28	0.175	104	0.10
Cadmium	µg/l	5.5 ± 0.0883	5.7 ± 1.14	0.55	104	0.09
Chromium	µg/l	0.913 ± 0.0459	<1 (LOQ) ± -	0.0776	-	-
Copper	µg/l	7.42 ± 0.284	7.8 ± 1.56	0.668	105	0.12
Iron	µg/l	269 ± 4.67	270 ± 54	48.4	100	0.01
Lead	µg/l	0.562 ± 0.0335	<1 (LOQ) ± -	0.0844	-	-
Manganese	µg/l	2.47 ± 0.0899	2.7 ± 0.54	0.178	110	0.22
Nickel	µg/l	2.21 ± 0.0769	2.2 ± 0.44	0.265	99.5	-0.01
Selenium	µg/l	1.04 ± 0.0472	1 ± 0.2	0.125	96.3	-0.09
Uranium	µg/l	0.932 ± 0.0203	<1 (LOQ) ± -	0.0615	-	-
Zinc	µg/l	30.5 ± 0.763	30 ± 6	2.74	98.4	-0.04

Sample: M150AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.8 ± 0.0338	0.83 ± 0.17	0.112	104	0.09

Sample: M150B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	171 ± 3.57	180 ± 36	25.7	105	0.12
Arsenic	µg/l	6.65 ± 0.205	6.9 ± 1.38	0.865	104	0.09
Cadmium	µg/l	0.588 ± 0.0125	0.6 ± 0.12	0.0588	102	0.05
Chromium	µg/l	0.718 ± 0.0472	<1 (LOQ) ± -	0.061	-	-
Copper	µg/l	76.9 ± 1.7	80 ± 16	6.92	104	0.10
Iron	µg/l	86.2 ± 2.34	79 ± 15.8	15.5	91.7	-0.23
Lead	µg/l	2.52 ± 0.0972	2.6 ± 0.52	0.379	103	0.07
Manganese	µg/l	18.1 ± 0.349	19 ± 3.8	1.31	105	0.12
Nickel	µg/l	22.4 ± 0.703	22 ± 4.4	2.68	98.4	-0.04
Selenium	µg/l	3.45 ± 0.179	3.5 ± 0.7	0.414	101	0.03

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Uranium	µg/l	1.19 ± 0.0357	1.2 ± 0.24	0.0785	101 0.02
Zinc	µg/l	179 ± 4.18	180 ± 36	16.1	101 0.02

Sample: M150BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.15 ± 0.103	2.2 ± 0.44	0.301	102	0.05

