

Proficiency Testing Scheme für die Wasseranalytik - Realproben M175 Metalle und Spurenelemente

Proficiency Testing Scheme for Water Analysis - natural water samples M175 Metals and trace elements

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Leitung Eignungsprüfungen für den Bereich chemische Analytik / Management for proficiency tests for chemical analysis

Inhaltsverzeichnis / Table of Contents

D1. Beschreibung des Ringversuchs.....	5
D1.1. Ausgestaltung und Durchführung	5
D1.2. Beschreibung der Prüfgegenstände	5
D1.3. Anweisungen für die Teilnehmenden.....	5
D1.4. Kontrollanalytik zur Bewertung der Homogenität.....	6
D1.5. Trendtest zur Bewertung der Stabilität.....	6
D1.6. Ermittlung des zugewiesenen Wertes.....	6
D2. Kriterien der Leistungsbewertung	7
D2.1. Leistungskriterium z-Score.....	7
D2.2. Leistungskriterium E _n -Score	8
D2.3. Leistungsbewertung z-Score und E _n -Score.....	9
D3. Darstellung und Interpretation der Messergebnisse.....	9
D4. Anmerkungen zur Auswertung.....	10
D5. Erläuterung zu Tabellen und Grafiken	10
D5.1. Angaben und Abkürzungen in Tabellen.....	10
D5.2. Graphische Darstellung der Ergebnisse	13
D6. Zusammenfassung	16
D6.1. Tabelle der zugewiesenen Werte	16
D6.2. Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse ..	17
E1. Description of the proficiency test	19
E1.1. Design and implementation	19
E1.2. Description of the proficiency test items	19
E1.3. Instructions for the participants.....	19
E1.4. Control testing for homogeneity evaluation.....	20
E1.5. Trend test for stability evaluation	20
E1.6. Determination of the assigned values.....	21
E2. Criteria of performance evaluation	22
E2.1. Performance criterion z-Score	22
E2.2. Performance criterion E _n -Score	22
E2.3. Performance evaluation z-Score and E _n -Score	23
E3. Representation and interpretation of measurement results.....	23
E4. Explanatory notes	24

E5. Annotations on tables and charts	25
E5.1. Information and abbreviations in tables	25
E5.2. Graphical presentation of results	27
E6. Summary	30
E6.1. Table of assigned values	30
E6.2. Summary of results, after removal of outliers.....	31
E7. Parameterorientierte Auswertung / Parameter oriented report.....	33
E8. Labororientierte Auswertung / Laboratory oriented report.....	138
E9. Methodenübersicht / Overview of methods	247

D1. Beschreibung des Ringversuchs

D1.1. Ausgestaltung und Durchführung

- Anzahl der Anmeldungen: 27
- Anzahl der übermittelten Datensätze: 27
- Probenversand: 04.02.2025
- Einsendeschluss der Daten: 04.03.2025

Die Ergebnisabgabe erfolgte auf elektronischem Weg mittels passwortgeschützter Online-Dateneingabe. Beim Abschluss der Dateneingabe bestätigten die Teilnehmenden 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 und Oberflächenwasser erfolgte am 29.01.2025. Das Probenmaterial umfasste:

- 1 Probe Grundwasser (M175 A)
- 1 Probe Oberflächenwasser (M175 B)

Alle Proben wurden über 0,45 µm Membranfilter filtriert und anschließend bis zur weiteren Verarbeitung gekühlt gelagert (4 +/- 3°C). Die o.a. Proben wurden zusätzlich mit einzelnen Substanzen dotiert.

Das Abfüllen der Proben erfolgte unter ständigem Rühren (Rührkessel). Die Proben wurden mit HNO₃ (2,5 ml c. HNO₃ auf 250 ml) bzw. HCl (1 ml c. HCl auf 100 ml; nur Abfüllung für Parameter Hg) stabilisiert.

Die homogenen Prüfgegenstände wurden am 04.02.2025 verschickt.

Jedes teilnehmende Labor 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 Teilnehmenden

Aus Stabilitätsgründen wurde empfohlen bis spätestens 12.02.2025 mit den Analysen zu beginnen.

Den Teilnehmenden stand die Wahl der Analysenmethode bzw. der verwendeten Norm frei, welche mit ihrem Routineverfahren übereinstimmen sollte. Eine Übersicht der angewendeten Methoden findet sich unter E9.

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 2024.

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

Aufgrund der bisherigen Erfahrungen und aufgrund der Bewertungsgrundlagen der aktuellen Eignungsprüfungsrunde 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 04.03.2025 beim Veranstalter vorliegen. Später eingehende Werte wurden nicht berücksichtigt.

Im Zuge der Plausibilitätsprüfung der Daten (z.B. Check korrekte Einheiten, Messunsicherheitsangabe, ...) wurden die Teilnehmenden 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 ISO 5725-2. Eine statistische Auswertung der Ringversuchsdaten erfolgte erst ab zumindest 6 gültigen, numerischen 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 Ergebnisse der Teilnehmenden von über 50 % oder bei mangelhafter Rückführbarkeit der statistischen Kenndaten aus den ausreißerbereinigten Ergebnissen der Teilnehmenden 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 Ergebnisse der Teilnehmenden für diesen Parameter möglich ist. Ein entsprechender Hinweis wird im Bericht unter E7 bei der informativen Auswertung angebracht. Im Rahmen der internen Qualitätssicherung der Teilnehmenden 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:

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

Dabei ist:

x_i	Messergebnis des teilnehmenden Labors
\bar{X}	zugewiesener Wert Sollwert für die Leistungsbewertung der Teilnehmenden (angegeben auf 3 signifikante Stellen); im Regelfall: ausreißerbereinigter Mittelwert der Ergebnisse der Teilnehmenden. Eine davon abweichende Vorgehensweise wird unter Punkt D4 des Berichts beschrieben.
<i>Kriterium</i>	Vergleichsstandardabweichung berechnet aus den Statistiken für reale Wasserproben der vorangegangenen Runden im Zeitraum 2013 bis 2024 (RSDpooled) 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_n-Score

Für die realen Wasserproben erfolgen zusätzliche Bewertungen unter Einbeziehung der erweiterten Messunsicherheiten der Teilnehmenden und der erweiterten Messunsicherheit des zugewiesenen Wertes, gemäß E_n-Score. Diese Auswertungen werden für die Teilnehmenden im Bericht unter Punkt E8, jeweils im Anschluss an die z-Score Auswertung dargestellt.

Die Ermittlung der E_n-Scores erfolgte gemäß nachfolgender Formel:

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

Dabei ist:

x_i	Messergebnis des teilnehmenden Labors
\bar{X}	zugewiesener Wert Sollwert für die Leistungsbewertung der Teilnehmenden (angegeben auf 3 signifikante Stellen); im Regelfall: ausreißerbereinigter Mittelwert der Ergebnisse der Teilnehmenden. Eine davon abweichende Vorgehensweise wird unter Punkt D4 des Berichts beschrieben.

- $U(x_i)$ erweiterte Messunsicherheit des Messergebnisses (Ergebnisse der Teilnehmenden), $k=2$
- $U(\bar{X})$ erweiterte Messunsicherheit des zugewiesenen Wertes, $k=2$

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 Teilnehmenden nicht mitberücksichtigt. 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 Teilnehmenden 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_n -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 Ergebnisse der Teilnehmenden des aktuellen Ringversuchs berechnet werden. Das kann zur Folge haben, dass es bei Parametern mit hoher Ergebnisstreuung 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 Ergebnisse der Teilnehmenden 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 12 Eignungsprüfungsrunden von Realproben (2013–2024) wurden Kriterien (RSDpool) zur Ergebnisbewertung berechnet. Diese wurden im Zuge der Auswertung den relativen Vergleichsstandardabweichungen (vR) des aktuellen Ringversuchs gegenübergestellt.

Parameter Aluminium, Arsen, Cadmium, Kupfer, Quecksilber, Mangan, Nickel, Blei, Selen, Uran und Zink bei Probe M175 A und Parameter Aluminium, Arsen, Cadmium, Chrom, Kupfer, Eisen, Quecksilber, Mangan, Nickel, Blei, Selen, Uran und Zink bei Probe M175 B: Bei diesen Parametern erfolgt die Berechnung der Scores nach D2.

Parameter Chrom und Eisen bei Probe M175 A: Als Bewertungskriterium wurden die relativen Vergleichsstandardabweichungen (vR) der aktuellen Eignungsprüfungsrunde gewählt (Chrom: vR=13 %; Eisen: vR=15 %).

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 Teilnehmenden (angegeben auf 3 signifikante Stellen)
U (k=2)	erweiterte Unsicherheit (k=2) des zugewiesenen Wertes, (angegeben auf 3 signifikante Stellen)

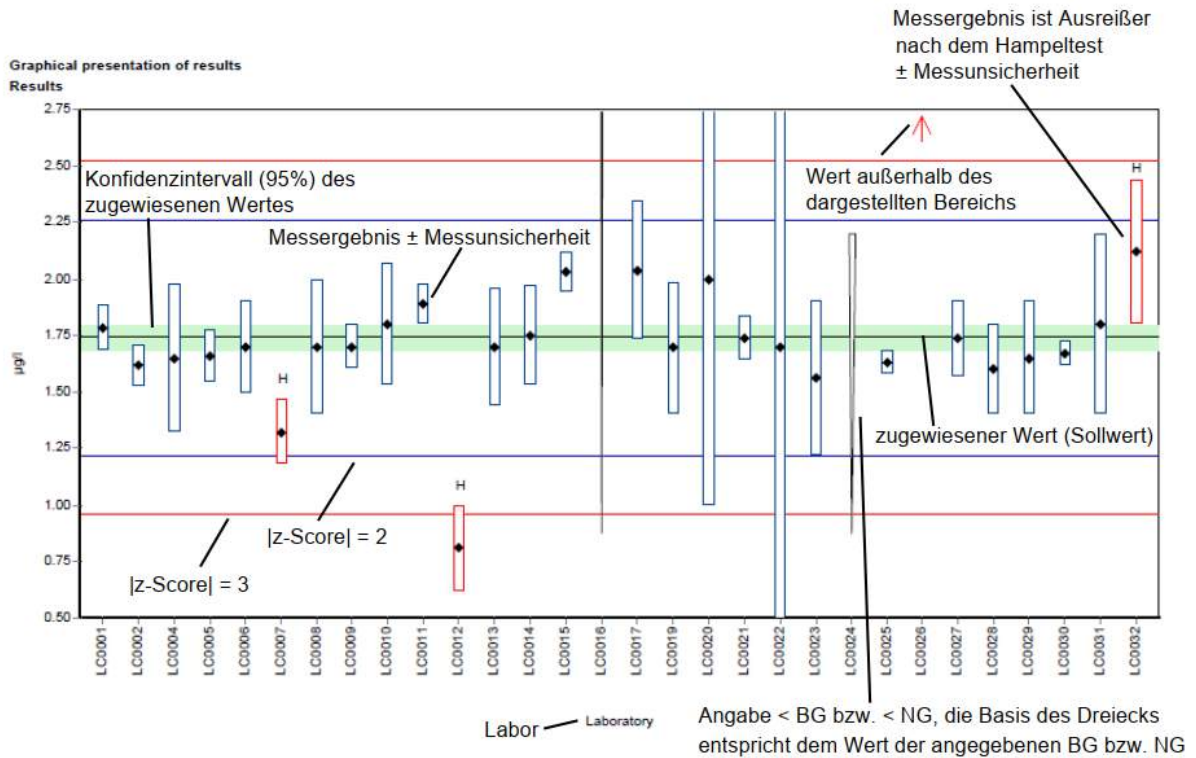
Kriterium	Vorgabewert zur Ermittlung des z-Scores in der angegebenen Einheit (angegeben auf 3 signifikante Stellen)
Kriterium [%]	Vorgabewert zur Ermittlung des z-Scores in % des zugewiesenen Wertes (angegeben auf 2 signifikante Stellen)
Mittelwert	Ausreißerbereinigter Mittelwert über die Ergebnisse der Teilnehmenden (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 Ergebnissen der Teilnehmenden des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)
vR	relative Vergleichsstandardabweichung in %, berechnet aus den ausreißerbereinigten Ergebnissen der Teilnehmenden 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 Kennung des teilnehmenden Labors im jeweiligen Ringversuch
Messwert	einzelne(r) Messwert(e) lt. Angabe der Teilnehmenden (maximal 5 Nachkommastellen dargestellt)
Messergebnis	Für die Bewertung herangezogenes Ergebnis lt. Angabe der Teilnehmenden (maximal 5 Nachkommastellen dargestellt). Bei Eignungsprüfungsrunden mit Vorgabe von unabhängigen Mehrfachbestimmungen, entspricht dies dem berechneten Mittelwert aus den einzelnen Messwerten der Teilnehmenden.
\pm U	kombinierte Messunsicherheit ohne Erweiterungsfaktor (k=1) lt. Angabe der Teilnehmenden (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 Teilnehmenden (angegeben auf 3 signifikante Stellen, dargestellt maximal 2 Nachkommastellen). Beim E _n -Score erfolgt die Berücksichtigung der Messunsicherheit der Teilnehmenden.
-	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 Bestimmungsbzw. 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 Ergebnissen der Teilnehmenden des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)
rel. Standardabweichung	relative Vergleichsstandardabweichung in %, berechnet aus den Ergebnissen der Teilnehmenden des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 3 signifikante Stellen)
n	Anzahl der Messergebnisse
*	Kennzeichnung für Hinweise zur Erläuterung

D5.2. Graphische Darstellung der Ergebnisse

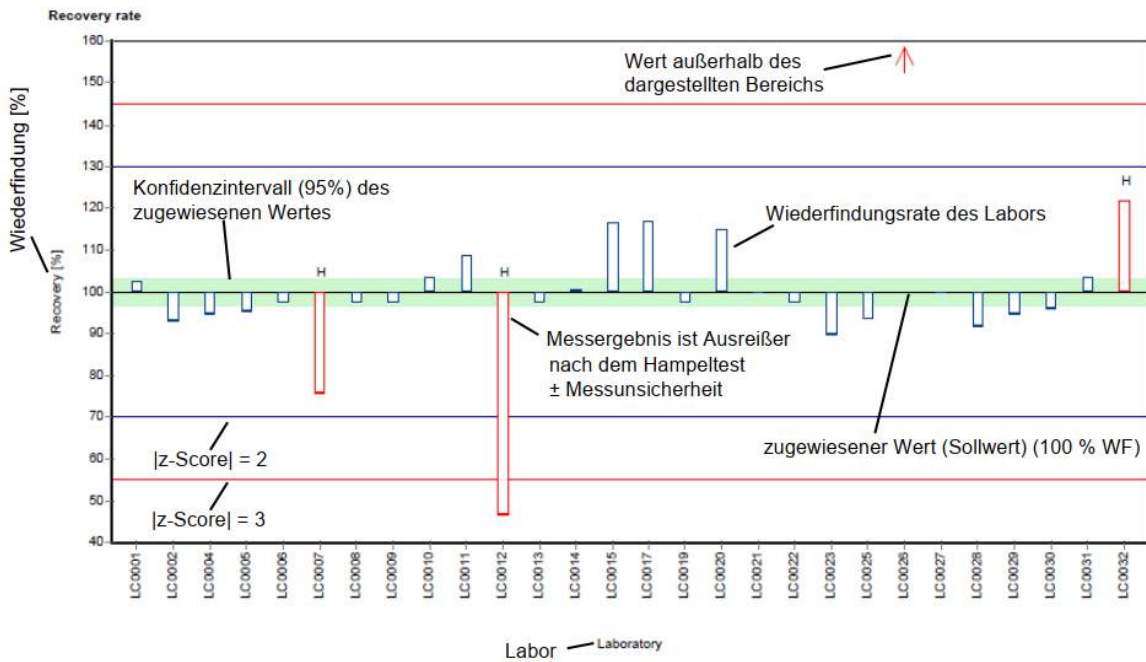
Nachfolgend wird die graphische Darstellung anhand von kommentierten Beispieldiagrammen erläutert.

Beispieldiagramm: Messwerte



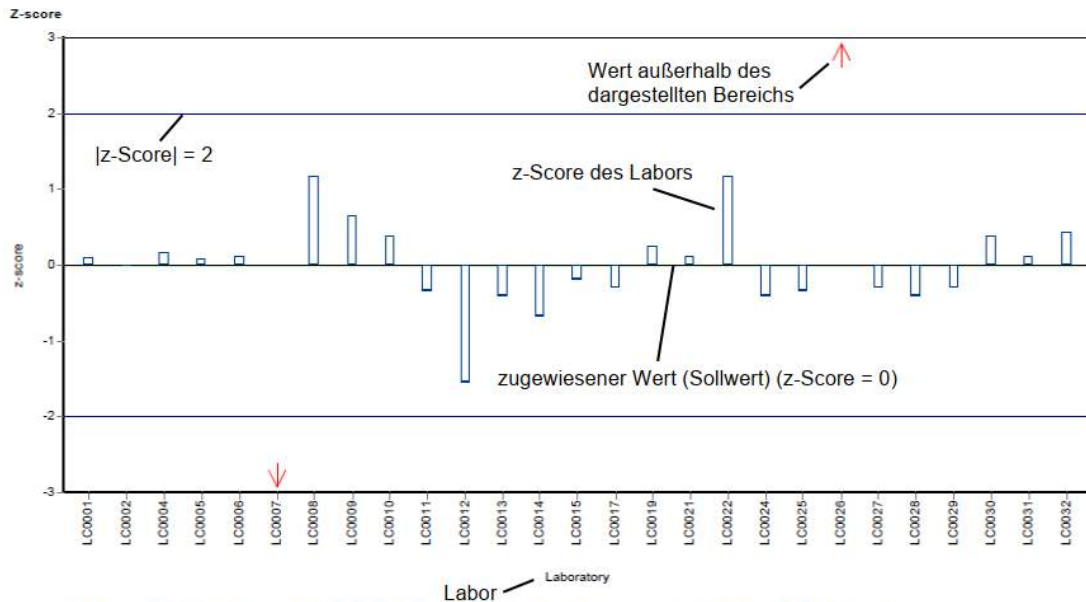
Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

Beispieldiagramm: Wiederfindung zum zugewiesenen Wert



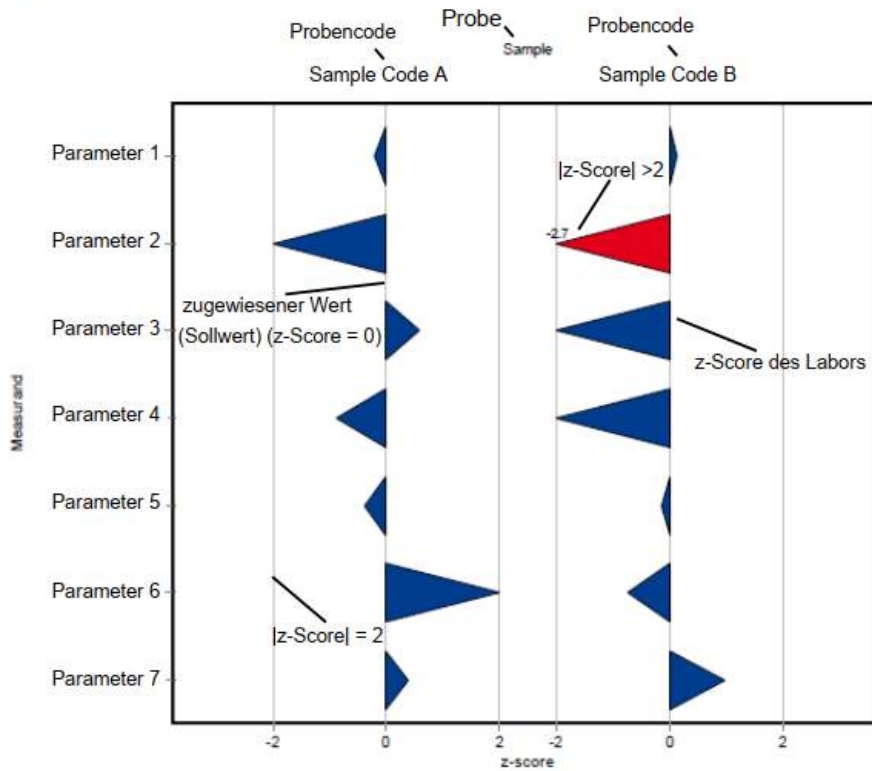
Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

Beispieldiagramm: z-Score

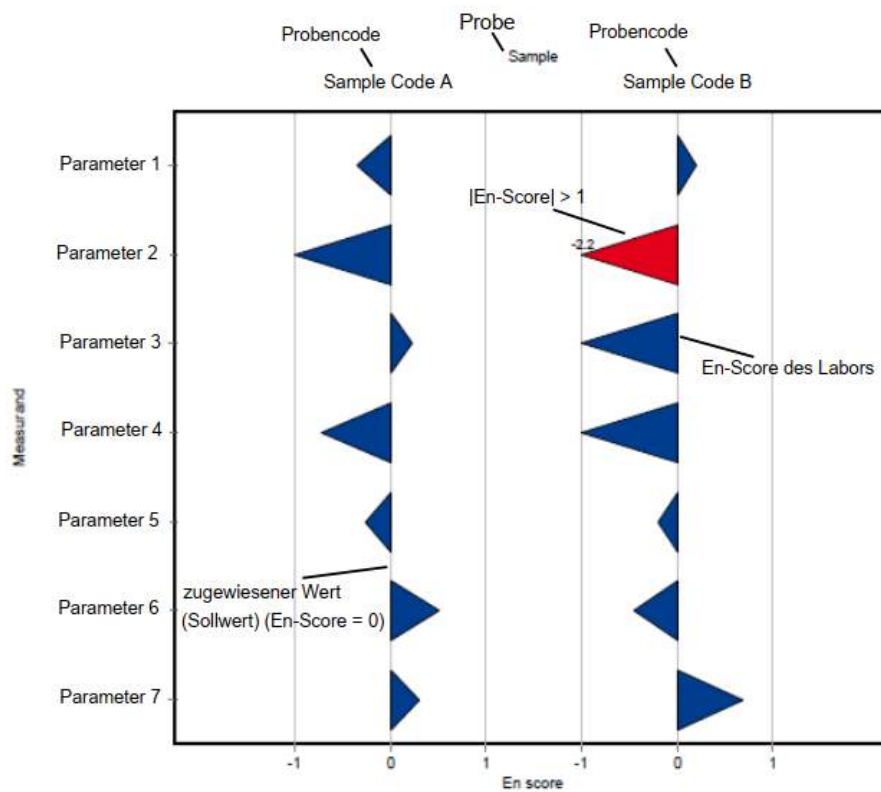


Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

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	M175 A	µg/l	72.6	± 2.14	7.26	10	
	M175 B	µg/l	616	± 13.2	61.6	10	
Arsen	M175 A	µg/l	3.46	± 0.0848	0.449	13	
	M175 B	µg/l	10.2	± 0.177	1.33	13	
Blei	M175 A	µg/l	1.84	± 0.0805	0.184	10	
	M175 B	µg/l	17.7	± 0.414	1.77	10	
Cadmium	M175 A	µg/l	1.53	± 0.0318	0.153	10	
	M175 B	µg/l	4.92	± 0.0597	0.492	10	
Chrom	M175 A	µg/l	1.23	± 0.07	0.16	13	
	M175 B	µg/l	30.7	± 0.674	2.61	8.5	
Eisen	M175 A	µg/l	23.6	± 1.46	3.53	15	
	M175 B	µg/l	72.2	± 1.46	7.94	11	
Kupfer	M175 A	µg/l	8.84	± 0.148	0.796	9	
	M175 B	µg/l	41.7	± 0.556	3.75	9	
Mangan	M175 A	µg/l	26.9	± 0.565	1.94	7.2	
	M175 B	µg/l	59.9	± 0.938	4.31	7.2	
Nickel	M175 A	µg/l	3.58	± 0.0927	0.43	12	
	M175 B	µg/l	14	± 0.308	1.68	12	
Quecksilber	M175 A Hg	µg/l	0.572	± 0.0178	0.0801	14	
	M175 B Hg	µg/l	2.39	± 0.0536	0.334	14	
Selen	M175 A	µg/l	3.37	± 0.105	0.405	12	
	M175 B	µg/l	13.1	± 0.352	1.57	12	
Uran	M175 A	µg/l	2.05	± 0.0519	0.135	6.6	
	M175 B	µg/l	1.35	± 0.0379	0.0893	6.6	
Zink	M175 A	µg/l	342	± 8.95	30.8	9	
	M175 B	µg/l	1550	± 29.4	140	9	

D6.2. Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse

Parameter	Probe	Anzahl Labors für	Anzahl Ausreißer	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
Aluminium	M175 A	24	1	µg/l	72.6 ±	3.21	59.9	86.6	5.24	7.2
	M175 B	25	1	µg/l	616 ±	19.8	531	686	33.1	5.4
Arsen	M175 A	23	2	µg/l	3.46 ±	0.127	3.18	3.96	0.203	5.9
	M175 B	22	3	µg/l	10.2 ±	0.266	9.48	11.2	0.415	4.1
Blei	M175 A	19	5	µg/l	1.84 ±	0.121	1.5	2.2	0.175	9.6
	M175 B	24	1	µg/l	17.7 ±	0.621	15.5	19.8	1.01	5.7
Cadmium	M175 A	25	0	µg/l	1.53 ±	0.0477	1.38	1.7	0.0794	5.2
	M175 B	25	0	µg/l	4.92 ±	0.0895	4.66	5.23	0.149	3
Chrom	M175 A	22	0	µg/l	1.23 ±	0.105	0.89	1.53	0.164	13
	M175 B	24	0	µg/l	30.7 ±	1.01	27	34	1.65	5.4
Eisen	M175 A	23	3	µg/l	23.6 ±	2.2	16.8	32.9	3.51	15
	M175 B	23	3	µg/l	72.2 ±	2.19	65.3	80.3	3.5	4.9
Kupfer	M175 A	24	1	µg/l	8.84 ±	0.222	7.87	9.41	0.362	4.1
	M175 B	24	1	µg/l	41.7 ±	0.834	39	44.5	1.36	3.3
Mangan	M175 A	23	2	µg/l	26.9 ±	0.848	24.3	29.9	1.35	5

Parameter	Probe	Anzahl Labors für	Anzahl Ausreißer	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
Mangan	M175 B	23	2	µg/l	59.9	± 1.41	54.1	64	2.25	3.8
Nickel	M175 A	21	2	µg/l	3.58	± 0.139	3.17	4.12	0.212	5.9
	M175 B	24	1	µg/l	14	± 0.463	12.3	15.2	0.755	5.4
Quecksilber	M175 A Hg	13	3	µg/l	0.572	± 0.0267	0.51	0.65	0.0321	5.6
	M175 B Hg	14	2	µg/l	2.39	± 0.0804	2.24	2.6	0.1	4.2
Selen	M175 A	19	2	µg/l	3.37	± 0.158	3.1	3.89	0.229	6.8
	M175 B	21	0	µg/l	13.1	± 0.528	11.4	14.7	0.806	6.2
Uran	M175 A	17	2	µg/l	2.05	± 0.0779	1.85	2.26	0.107	5.2
	M175 B	19	0	µg/l	1.35	± 0.0569	1.22	1.55	0.0826	6.1
Zink	M175 A	23	1	µg/l	342	± 13.4	295	389	21.5	6.3
	M175 B	24	0	µg/l	1550	± 44.1	1380	1660	72.1	4.6

E1. Description of the proficiency test

E1.1. Design and implementation

- Number of registrations: 27
- Number of submitted data records: 27
- Dispatch of samples: February 04th, 2025
- Closing date for submission of data: March 04th, 2025

The results were submitted electronically by a 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 given a laboratory code on a random basis.

E1.2. Description of the proficiency test items

The sampling of groundwater and surface water were both carried out on 29th of January 2025.

The following samples were made available

- 1 sample groundwater (M175 A)
- 1 sample surface water (M175 B)

Both samples were filtered using 0.45 µm membrane disc filters and stored at 4 +/- 3 °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 HNO₃ (2,5 ml c. HNO₃ per 250 ml) and HCl (1 ml c. HCl per 100 ml; for Hg only), respectively.

The homogeneous proficiency test items were dispatched on February 04th, 2025.

Each participant received:

- 2 samples each 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 12th of February 2025 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. In E9 you will find the overview of applied methods in course of the proficiency testing.

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 the 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 for each parameter by comparison with the reproducibility standard deviation of the actual 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 the data statistics of the results of previous proficiency testing rounds for real water samples of the period from 2013 to 2024.

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 participants 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 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 04th of March 2025. 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, ...) the 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 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 for 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 ($vR > 50\%$) 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 measures, the participants can compare their results with 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 on the basis of the following formula:

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

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
Criteria	is the reproducibility standard deviation calculated from previous rounds for proficiency testing for real water samples from 2013 to 2024 (as RSD pooled) 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_n-Score

In addition, an assessment of the participants' results using E_n-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_n-Scores were calculated on the basis of the following formula:

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

In this context,

x_i	is the measurement value (result) of the participating laboratory
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\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, $k=2$
$U(\bar{x})$	expanded measurement uncertainty for the assigned value, $k=2$

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 result 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 might point out 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 the 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 evaluation of E_n-Scores on separate pages.

The tables also contain the basis for the data assessment as the assigned values and 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 the 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 12 proficiency testing rounds (2013–2024 in real samples, evaluation criteria (RSD_{pool}) were calculated.

These criteria were compared with the relative reproducibility standard deviation (vR) of the current proficiency testing.

Parameters aluminium, arsenic, cadmium, copper, mercury, manganese, nickel, lead, selenium, uranium and zinc for sample M175 A and parameters aluminium, arsenic, cadmium, chromium, copper, iron, mercury, manganese, nickel, lead, selenium, uranium and zinc for sample M175 B:

Scores for all listed parameters were calculated according to E2.

Parameters chromium and iron for sample M175 A: The relative reproducibility standard deviation (vR) of the current proficiency testing round were selected as the evaluation criterion (chromium: vR=13 %; iron: vR=15 %).

E5. Annotations on tables and charts

E5.1. Information and abbreviations in tables

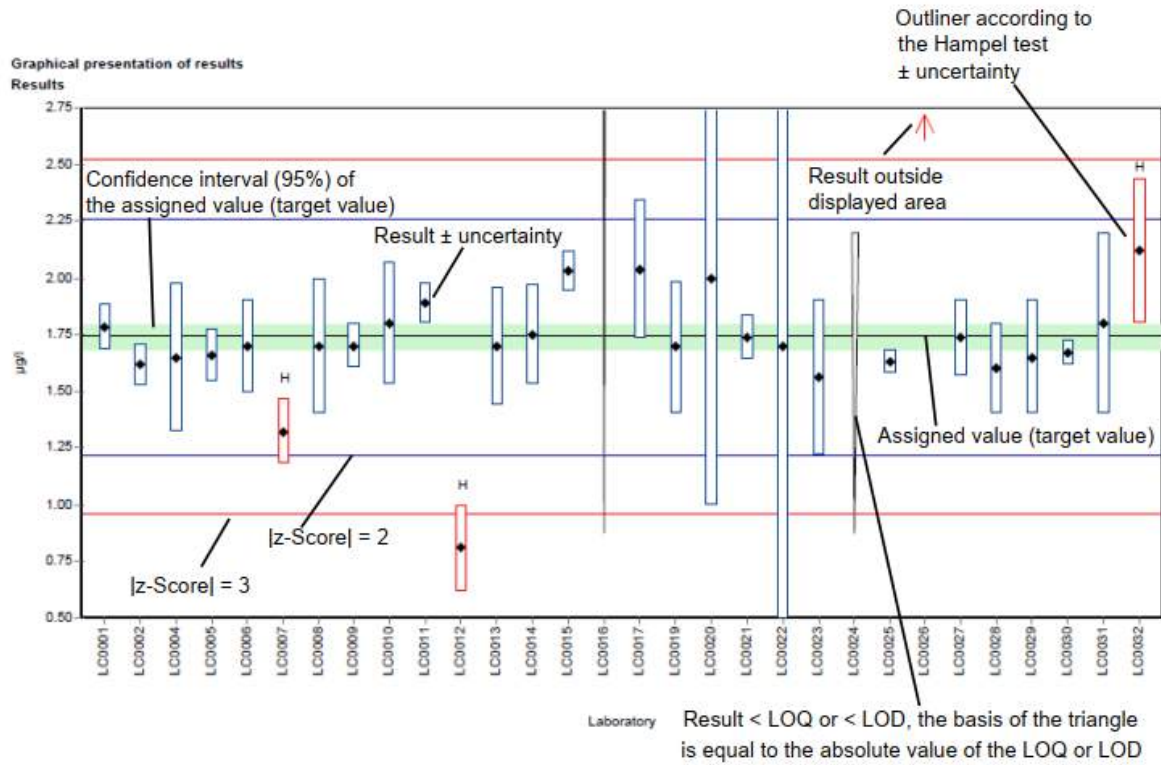
Parameter	Analyte identifier
Sample	Sample identifier
Unit	Given unit for result and uncertainty (e.g. mg/l)
Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criteria	Specified value for the determination of the z-score in the given unit (3 significant digits)
Criteria [%]	Specified value for the determination of the z-score in % of the assigned value (2 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)
SD	Reproducibility standard deviation, calculated from the participants results, after removal of outliers (3 significant digits)
RSD %	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) combined measurement uncertainty without expansion factor (k=1), 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 _n -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.
-	No data available or no calculation possible
Comments	Comment on the respective result (e.g. H, FN, FP)
H	Outlier according to Hampel-Test
FN	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.
FP	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
*	mark for additional comments

E5.2. Graphical presentation of results

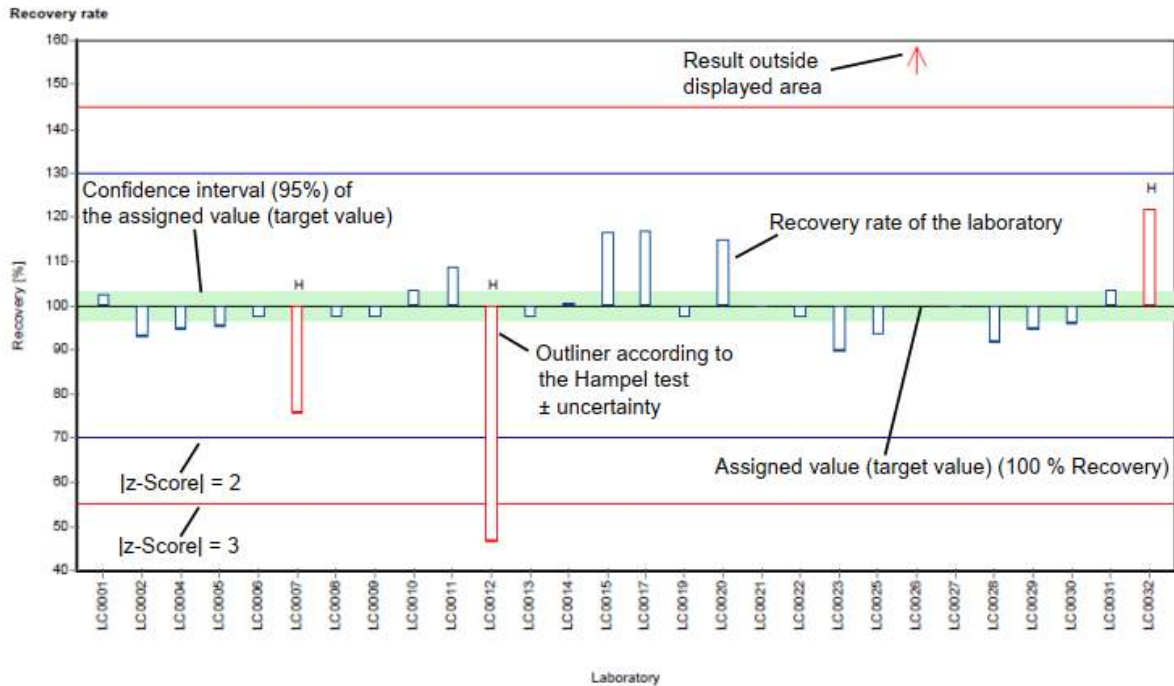
The graphic representation in the report is explained below by means of commented example diagrams:

Example chart: Results



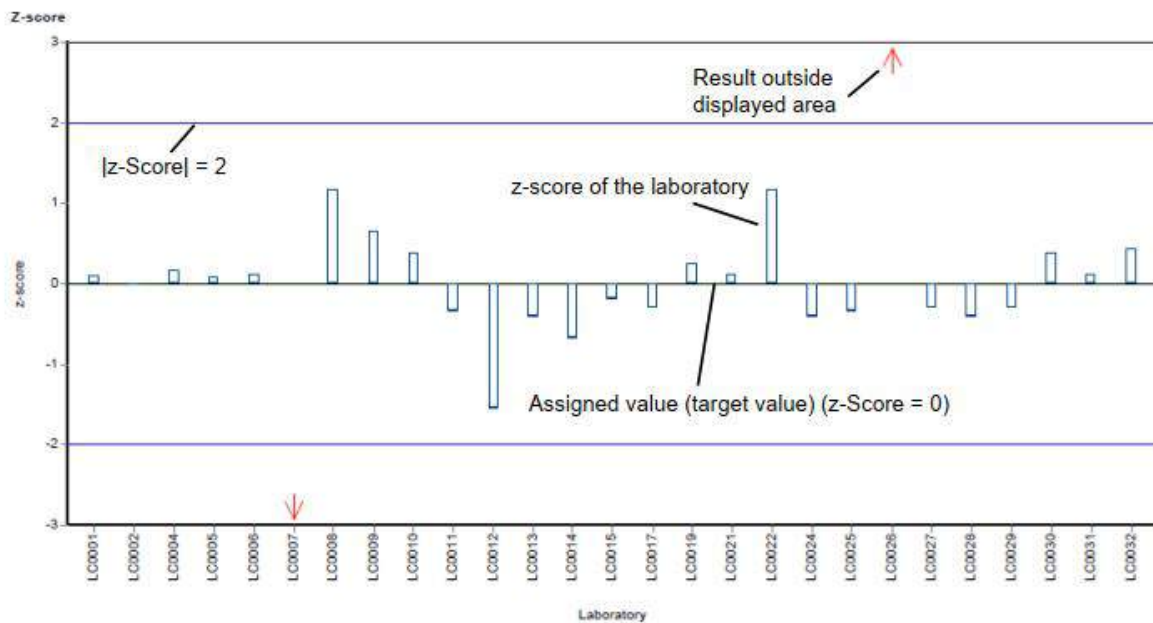
Different analysis methods are represented with different colors.

Example chart: Recovery



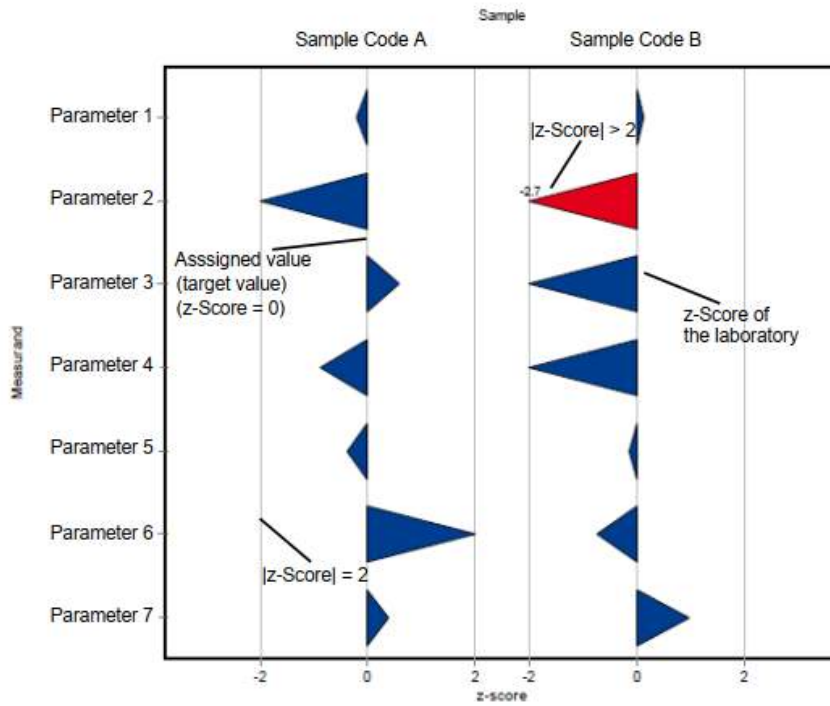
Different analysis methods are represented with different colors.

Example chart: z-Score

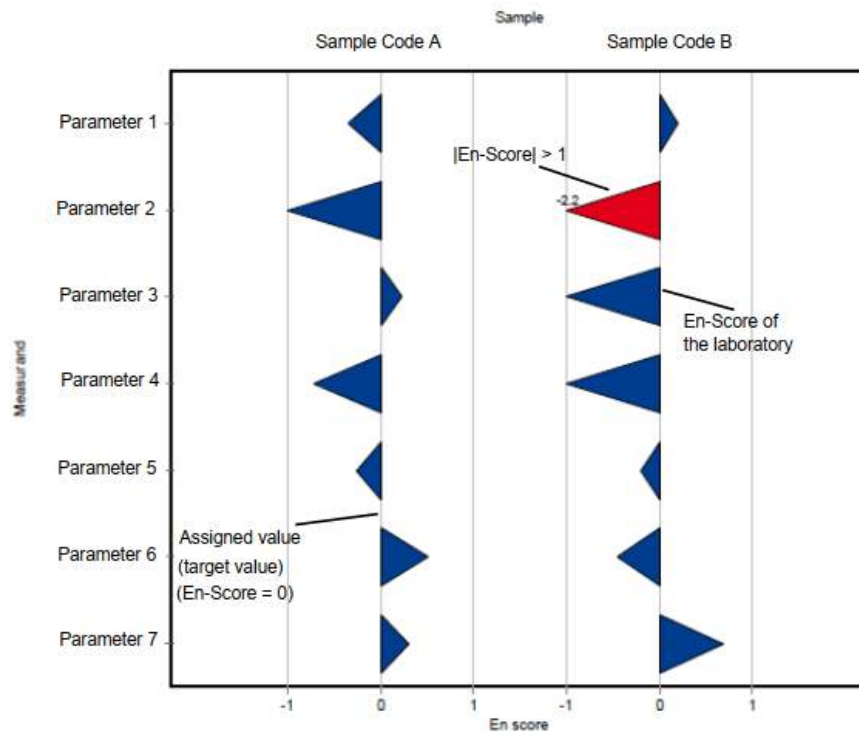


Different analysis methods are represented with different colors.

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	±	U (k=2)	Criterion	Criterion [%]
Aluminium	M175 A	µg/l	72.6	±	2.14	7.26	10
	M175 B	µg/l	616	±	13.2	61.6	10
Arsenic	M175 A	µg/l	3.46	±	0.0848	0.449	13
	M175 B	µg/l	10.2	±	0.177	1.33	13
Lead	M175 A	µg/l	1.84	±	0.0805	0.184	10
	M175 B	µg/l	17.7	±	0.414	1.77	10
Cadmium	M175 A	µg/l	1.53	±	0.0318	0.153	10
	M175 B	µg/l	4.92	±	0.0597	0.492	10
Chromium	M175 A	µg/l	1.23	±	0.07	0.16	13
	M175 B	µg/l	30.7	±	0.674	2.61	8.5
Iron	M175 A	µg/l	23.6	±	1.46	3.53	15
	M175 B	µg/l	72.2	±	1.46	7.94	11
Copper	M175 A	µg/l	8.84	±	0.148	0.796	9
	M175 B	µg/l	41.7	±	0.556	3.75	9
Manganese	M175 A	µg/l	26.9	±	0.565	1.94	7.2
	M175 B	µg/l	59.9	±	0.938	4.31	7.2
Nickel	M175 A	µg/l	3.58	±	0.0927	0.43	12
	M175 B	µg/l	14	±	0.308	1.68	12
Mercury	M175 A Hg	µg/l	0.572	±	0.0178	0.0801	14
	M175 B Hg	µg/l	2.39	±	0.0536	0.334	14
Selenium	M175 A	µg/l	3.37	±	0.105	0.405	12
	M175 B	µg/l	13.1	±	0.352	1.57	12
Uranium	M175 A	µg/l	2.05	±	0.0519	0.135	6.6
	M175 B	µg/l	1.35	±	0.0379	0.0893	6.6
Zinc	M175 A	µg/l	342	±	8.95	30.8	9
	M175 B	µg/l	1550	±	29.4	140	9

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

Parameter	Sample	Number of results for	Number of outliers	Unit	Mean	±	CI (99%)	Minimum	Maximum	sR	vR [%]
Aluminium	M175 A	24	1	µg/l	72.6	±	3.21	59.9	86.6	5.24	7.2
	M175 B	25	1	µg/l	616	±	19.8	531	686	33.1	5.4
Arsenic	M175 A	23	2	µg/l	3.46	±	0.127	3.18	3.96	0.203	5.9
	M175 B	22	3	µg/l	10.2	±	0.266	9.48	11.2	0.415	4.1
Lead	M175 A	19	5	µg/l	1.84	±	0.121	1.5	2.2	0.175	9.6
	M175 B	24	1	µg/l	17.7	±	0.621	15.5	19.8	1.01	5.7
Cadmium	M175 A	25	0	µg/l	1.53	±	0.0477	1.38	1.7	0.0794	5.2
	M175 B	25	0	µg/l	4.92	±	0.0895	4.66	5.23	0.149	3
Chromium	M175 A	22	0	µg/l	1.23	±	0.105	0.89	1.53	0.164	13
	M175 B	24	0	µg/l	30.7	±	1.01	27	34	1.65	5.4
Iron	M175 A	23	3	µg/l	23.6	±	2.2	16.8	32.9	3.51	15
	M175 B	23	3	µg/l	72.2	±	2.19	65.3	80.3	3.5	4.9
Copper	M175 A	24	1	µg/l	8.84	±	0.222	7.87	9.41	0.362	4.1
	M175 B	24	1	µg/l	41.7	±	0.834	39	44.5	1.36	3.3
Manganese	M175 A	23	2	µg/l	26.9	±	0.848	24.3	29.9	1.35	5

Parameter	Sample	Number of results for	Number of outliers	Unit	Mean	±	CI (99%)	Minimum	Maximum	sR	vR [%]
Manganese	M175 B	23	2	µg/l	59.9	±	1.41	54.1	64	2.25	3.8
Nickel	M175 A	21	2	µg/l	3.58	±	0.139	3.17	4.12	0.212	5.9
	M175 B	24	1	µg/l	14	±	0.463	12.3	15.2	0.755	5.4
Mercury	M175 A Hg	13	3	µg/l	0.572	±	0.0267	0.51	0.65	0.0321	5.6
	M175 B Hg	14	2	µg/l	2.39	±	0.0804	2.24	2.6	0.1	4.2
Selenium	M175 A	19	2	µg/l	3.37	±	0.158	3.1	3.89	0.229	6.8
	M175 B	21	0	µg/l	13.1	±	0.528	11.4	14.7	0.806	6.2
Uranium	M175 A	17	2	µg/l	2.05	±	0.0779	1.85	2.26	0.107	5.2
	M175 B	19	0	µg/l	1.35	±	0.0569	1.22	1.55	0.0826	6.1
Zinc	M175 A	23	1	µg/l	342	±	13.4	295	389	21.5	6.3
	M175 B	24	0	µg/l	1550	±	44.1	1380	1660	72.1	4.6

E7. Parameterorientierte Auswertung / Parameter oriented report

Aluminium	34
Arsenic	42
Lead	50
Cadmium.....	58
Chromium.....	66
Iron.....	74
Copper	82
Manganese	90
Nickel	98
Mercury	106
Selenium	114
Uranium.....	122
Zinc	130

Parameter oriented report Metals and trace elements
M175

Sample: M175A, Parameter: Aluminium

Parameter oriented report

M175 A

Aluminium

Unit	µg/l
Assigned value ± U (k=2)	72.6 ± 2.14
Criterion	7.26 (10 %)
Minimum - Maximum	59.9 - 86.6
Control test value ± U (k=2)	67.9 ± 12.9

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	73.6	4.5	101	0.14	
LC0002	78.9	11.8	109	0.87	
LC0003	74	14.4	102	0.19	
LC0004	76.6	11.5	106	0.55	
LC0005	72.785	3.65	100	0.03	
LC0006	54.5	3.86	75.1	-2.49	H
LC0007	74.409	9.23	103	0.25	
LC0008	70.2	4.9	96.7	-0.33	
LC0009	72.58	2.83	100	0	
LC0010	73.5	10	101	0.13	
LC0011	86.6	13	119	1.93	
LC0012	66.8	4	92	-0.8	
LC0013	80	16	110	1.02	
LC0014	-	-	-	-	
LC0015	74.79	7.48	103	0.3	
LC0016	68.2	6.82	94	-0.6	
LC0017	72.7	2.4	100	0.02	
LC0018	72.2	3.47	99.5	-0.05	
LC0019	69.37	16.48	95.6	-0.44	
LC0020	75.8	4.1	104	0.44	
LC0021	66.56	3.21	91.7	-0.83	
LC0022	70.6	10.6	97.3	-0.27	
LC0023	< 100 (LOQ)	-	-	-	
LC0024	74.4	1.9	102	0.25	
LC0025	68.8	1.04	94.8	-0.52	
LC0026	68.8	3.44	94.8	-0.52	
LC0027	59.9	6	82.5	-1.75	

Characteristics of parameter

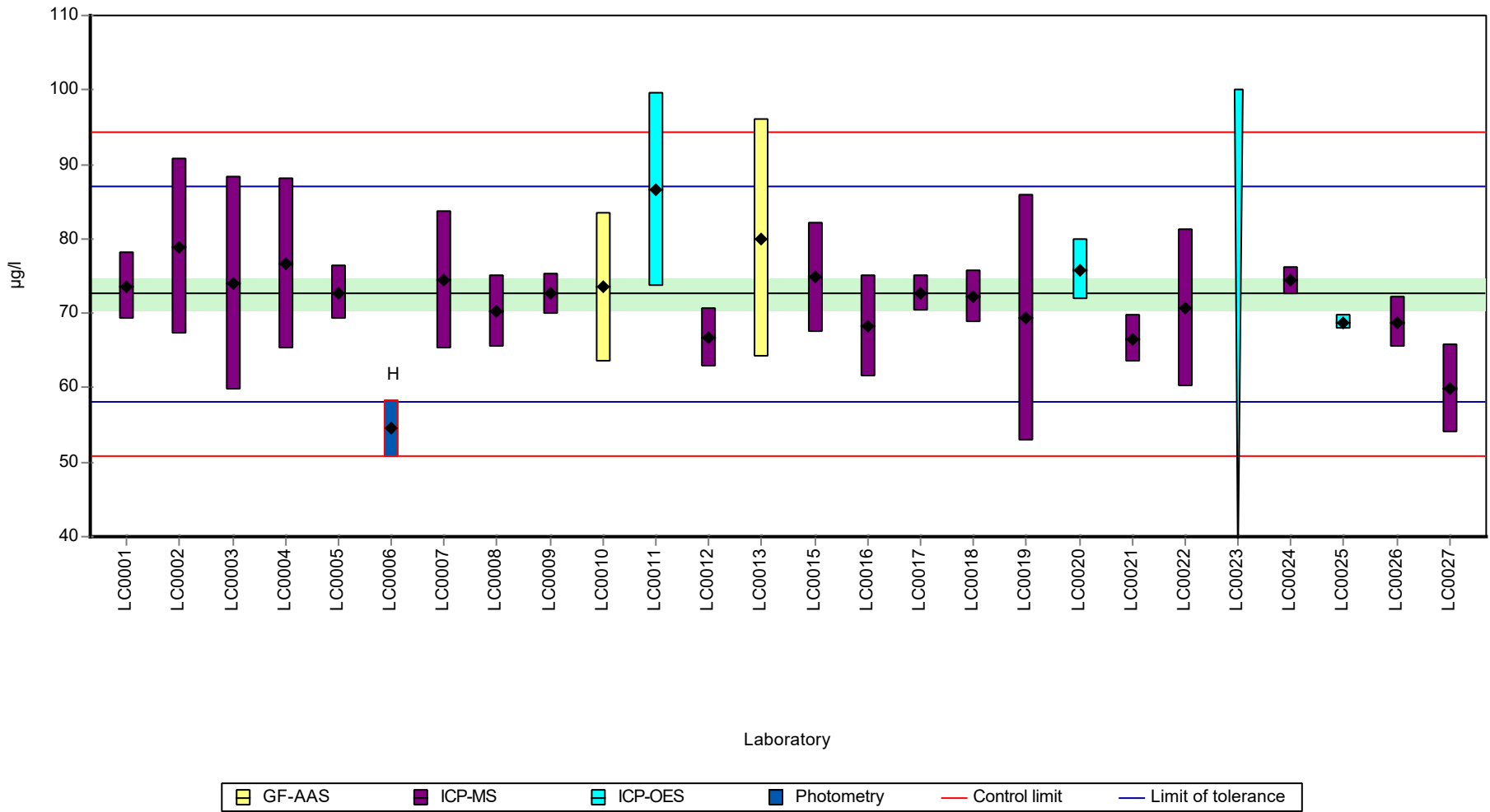
	all results	w without outliers	Unit
Mean ± CI (99%)	71.9 ± 3.77	72.6 ± 3.21	µg/l
Minimum	54.5	59.9	µg/l
Maximum	86.6	86.6	µg/l
Standard deviation	6.28	5.24	µg/l
rel. standard deviation	8.74	7.22	%
n	25	24	-

Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Aluminium

Graphical presentation of results

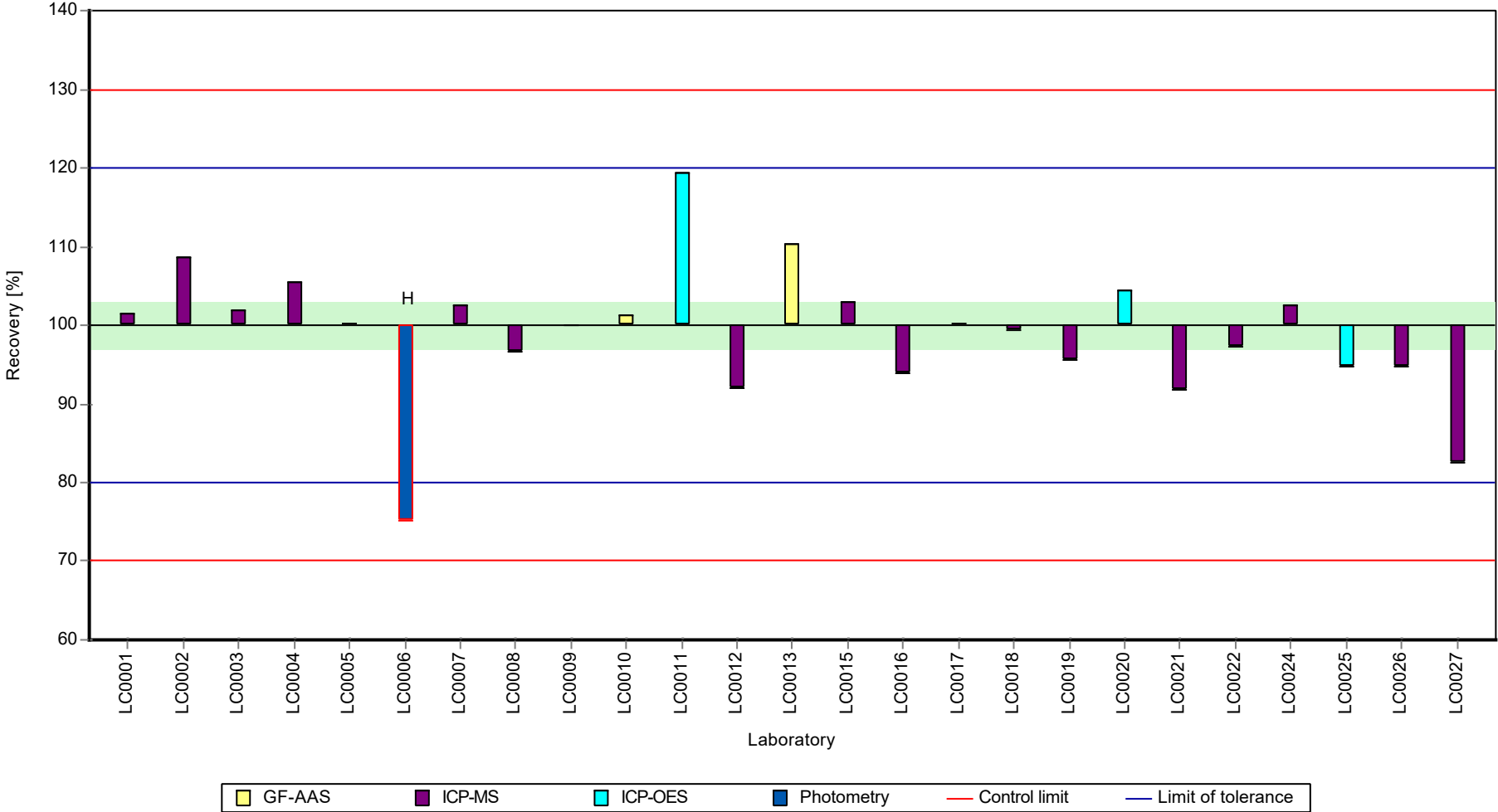
Results



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Aluminium

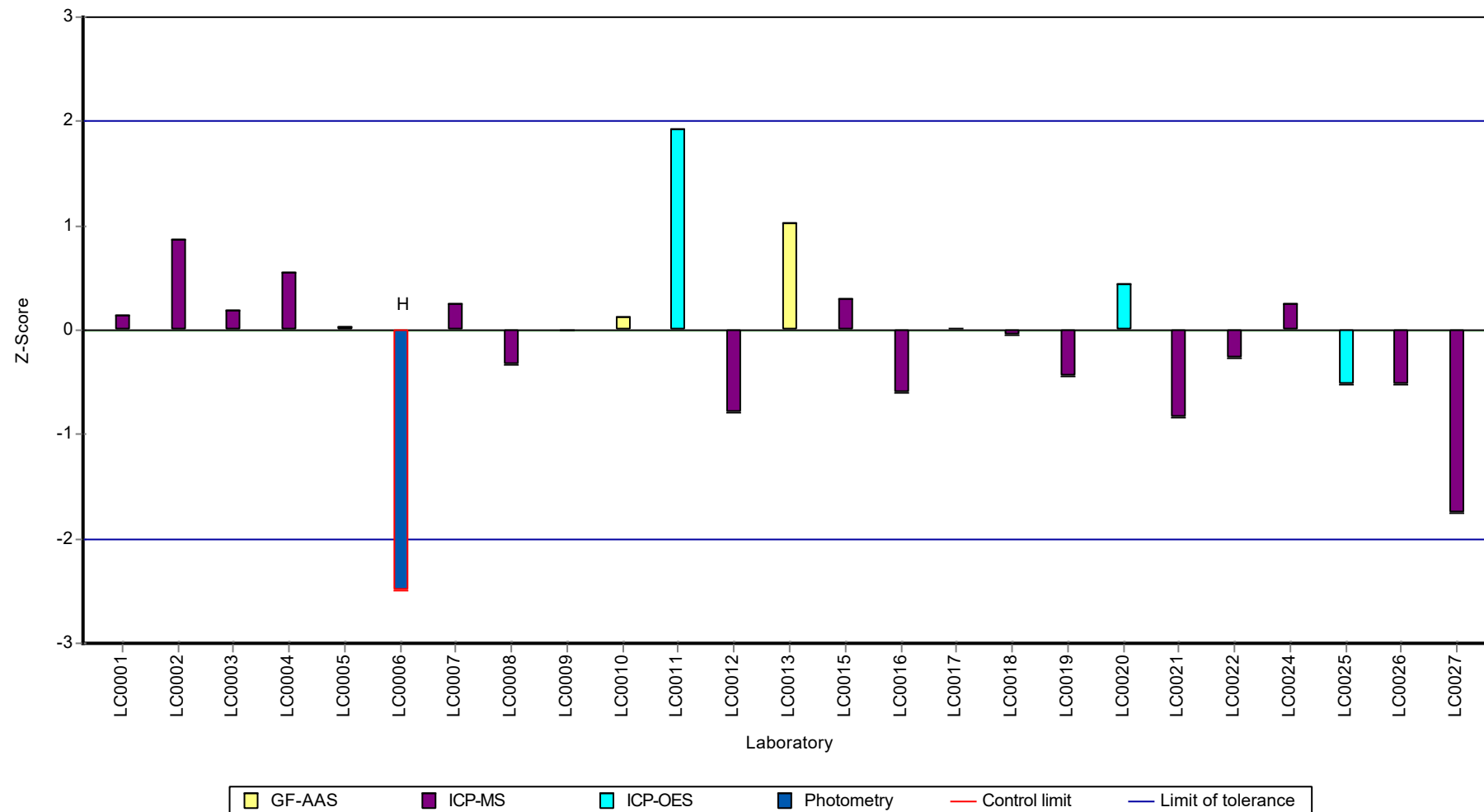
Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Aluminium

Z-score



Parameter oriented report Metals and trace elements
M175

Sample: M175B, Parameter: Aluminium

Parameter oriented report

M175 B

Aluminium

Unit	µg/l
Assigned value ± U (k=2)	616 ± 13.2
Criterion	61.6 (10 %)
Minimum - Maximum	531 - 686
Control test value ± U (k=2)	621.0 ± 118

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	621	42	101	0.09	
LC0002	628	94	102	0.2	
LC0003	634	104	103	0.3	
LC0004	643	96.5	104	0.44	
LC0005	609.67	30.61	99	-0.1	
LC0006	594.5	42.1	96.5	-0.35	
LC0007	634.36	78.7	103	0.3	
LC0008	573	40	93.1	-0.69	
LC0009	598.4	23.3	97.2	-0.28	
LC0010	661	92	107	0.73	
LC0011	633.6	95	103	0.29	
LC0012	586	117	95.2	-0.48	
LC0013	382	75	62	-3.8	H
LC0014	-	-	-	-	
LC0015	634.2	63.4	103	0.3	
LC0016	579	57.9	94	-0.6	
LC0017	624	32.3	101	0.13	
LC0018	664.7	32	108	0.79	
LC0019	624	148.2	101	0.13	
LC0020	598	33	97.1	-0.29	
LC0021	587.07	28.36	95.3	-0.47	
LC0022	626	93.8	102	0.17	
LC0023	608.3	109.494	98.8	-0.12	
LC0024	630	7.6	102	0.23	
LC0025	686	7.06	111	1.14	
LC0026	585	29.3	95	-0.5	
LC0027	531	53	86.2	-1.38	

Characteristics of parameter

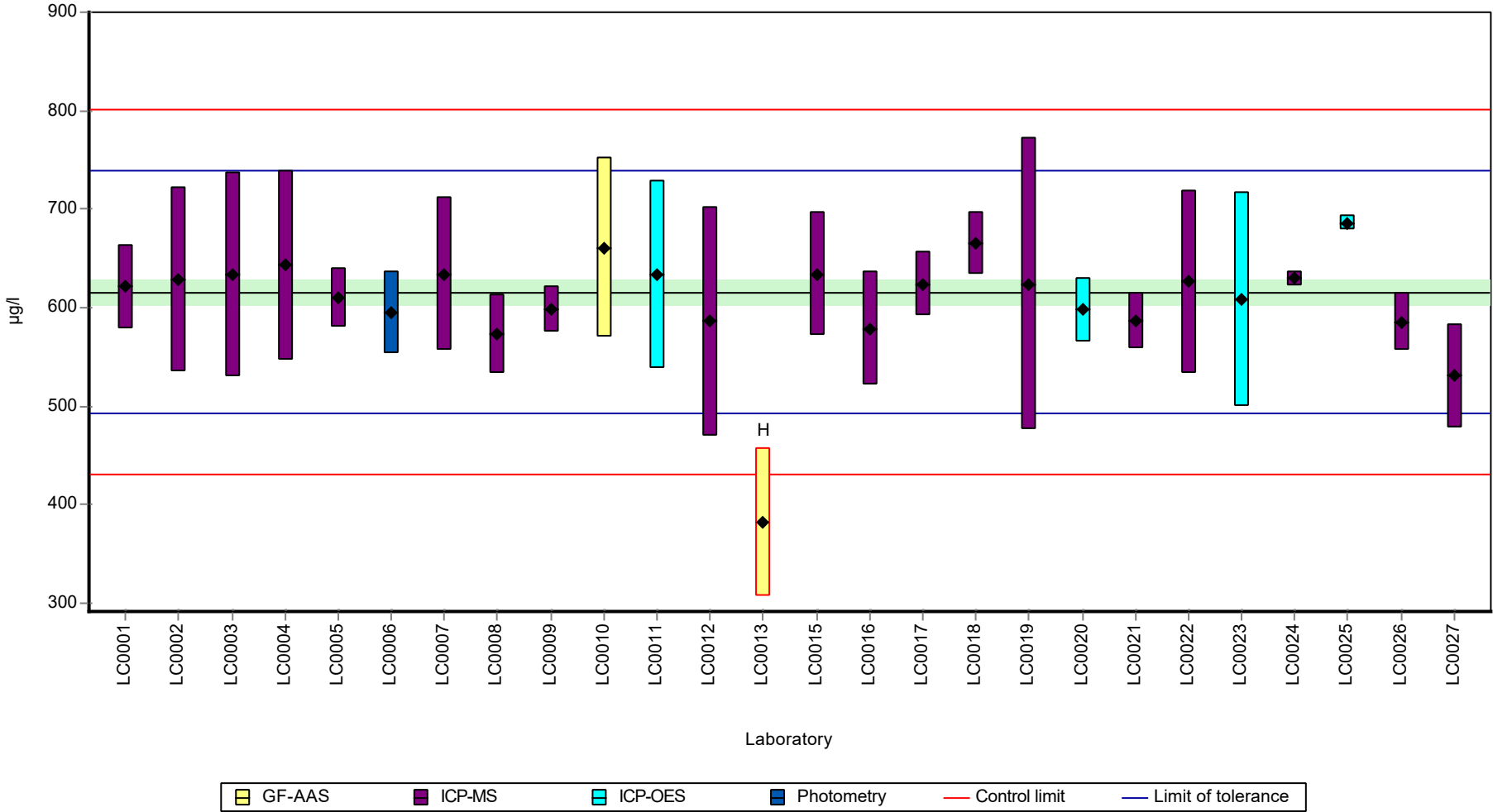
	all results	w without outliers	Unit
Mean ± CI (99%)	607 ± 33	616 ± 19.8	µg/l
Minimum	382	531	µg/l
Maximum	686	686	µg/l
Standard deviation	56.1	33.1	µg/l
rel. standard deviation	9.25	5.37	%
n	26	25	-

Parameter oriented report Metals and trace elements M175

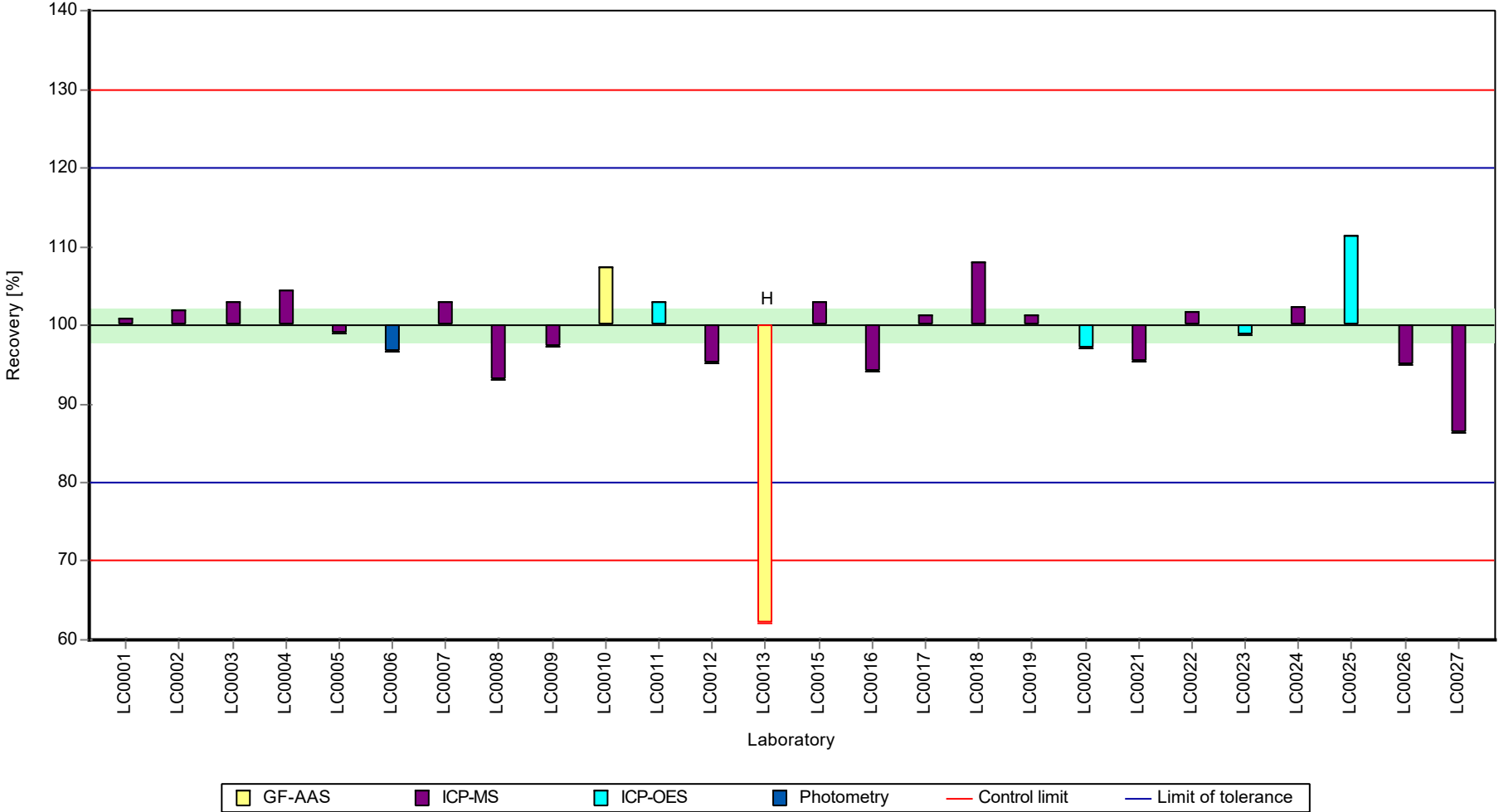
Sample: M175B, Parameter: Aluminium

Graphical presentation of results

Results

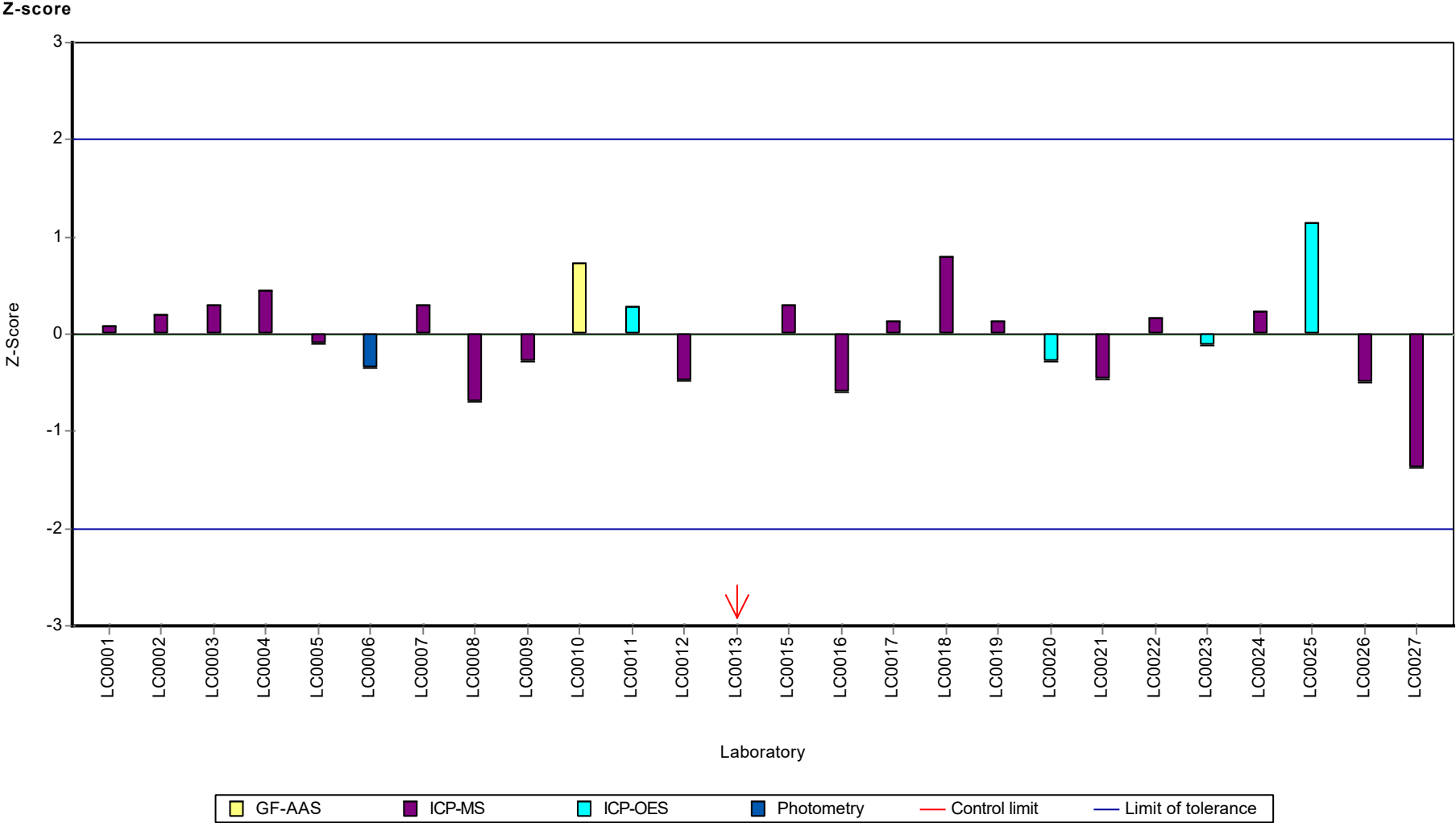


Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Aluminium



Parameter oriented report Metals and trace elements
M175

Sample: M175A, Parameter: Arsenic

Parameter oriented report

M175 A

Arsenic

Unit	µg/l
Assigned value ± U (k=2)	3.46 ± 0.0848
Criterion	0.449 (13 %)
Minimum - Maximum	3.18 - 3.96
Control test value ± U (k=2)	3.39 ± 0.373

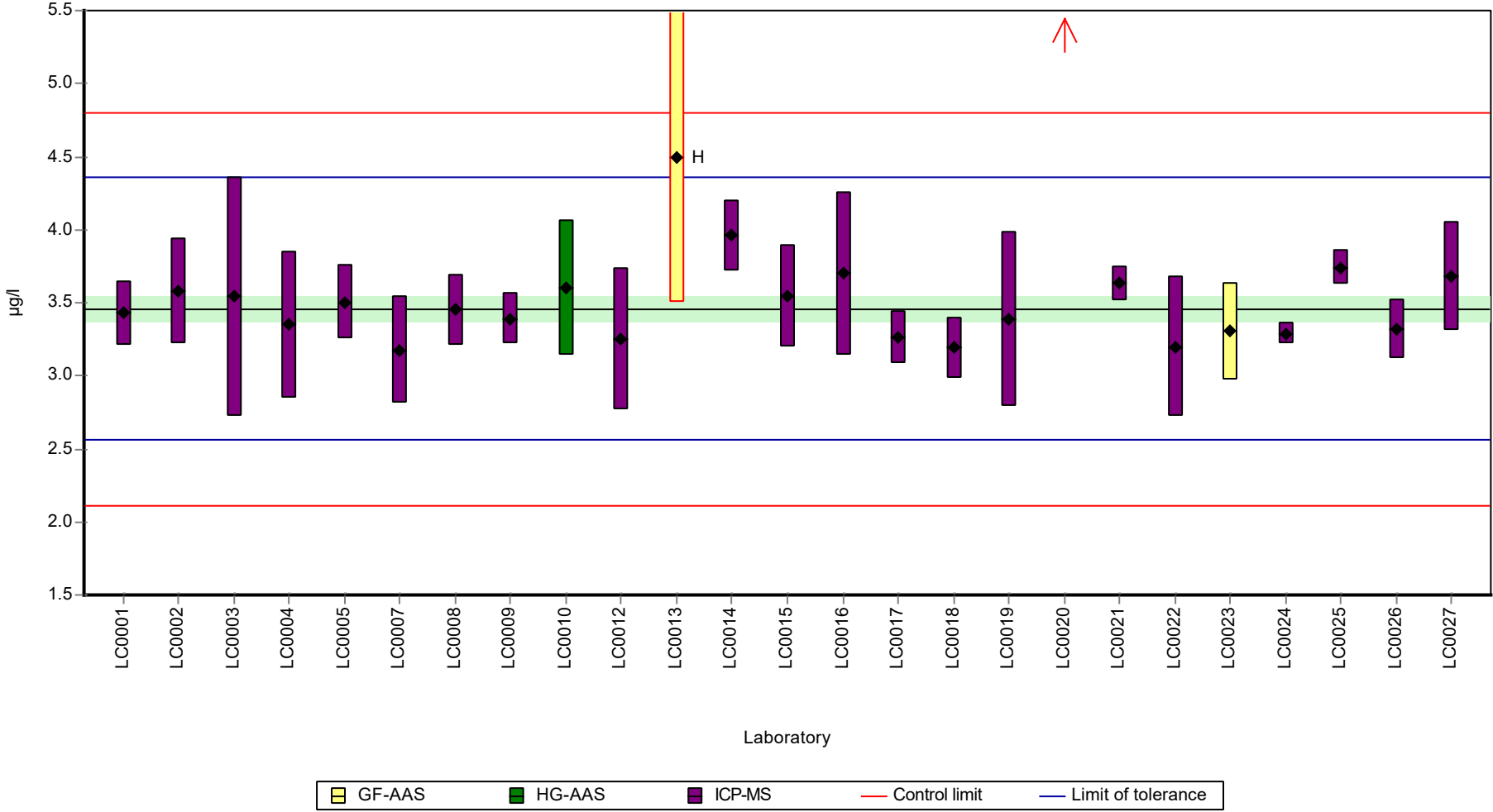
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	3.43	0.22	99.3	-0.06	
LC0002	3.58	0.36	104	0.28	
LC0003	3.54	0.82	102	0.19	
LC0004	3.35	0.5	96.9	-0.23	
LC0005	3.505	0.25	101	0.11	
LC0006	-	-	-	-	
LC0007	3.177	0.37	91.9	-0.62	
LC0008	3.45	0.24	99.8	-0.01	
LC0009	3.392	0.175	98.2	-0.14	
LC0010	3.6	0.46	104	0.32	
LC0011	-	-	-	-	
LC0012	3.25	0.49	94.1	-0.46	
LC0013	4.5	1	130	2.33	H
LC0014	3.958	0.241	115	1.12	
LC0015	3.54	0.35	102	0.19	
LC0016	3.7	0.56	107	0.54	
LC0017	3.26	0.18	94.3	-0.44	
LC0018	3.19	0.21	92.3	-0.59	
LC0019	3.389	0.601	98.1	-0.15	
LC0020	6.33	0.36	183	6.4	H
LC0021	3.63	0.12	105	0.39	
LC0022	3.2	0.48	92.6	-0.57	
LC0023	3.305	0.3305	95.6	-0.33	
LC0024	3.29	0.07	95.2	-0.37	
LC0025	3.74	0.12	108	0.63	
LC0026	3.32	0.2	96.1	-0.3	
LC0027	3.68	0.37	106	0.5	

Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	3.61 ± 0.38	3.46 ± 0.127	µg/l
Minimum	3.18	3.18	µg/l
Maximum	6.33	3.96	µg/l
Standard deviation	0.634	0.203	µg/l
rel. standard deviation	17.6	5.88	%
n	25	23	-

Graphical presentation of results

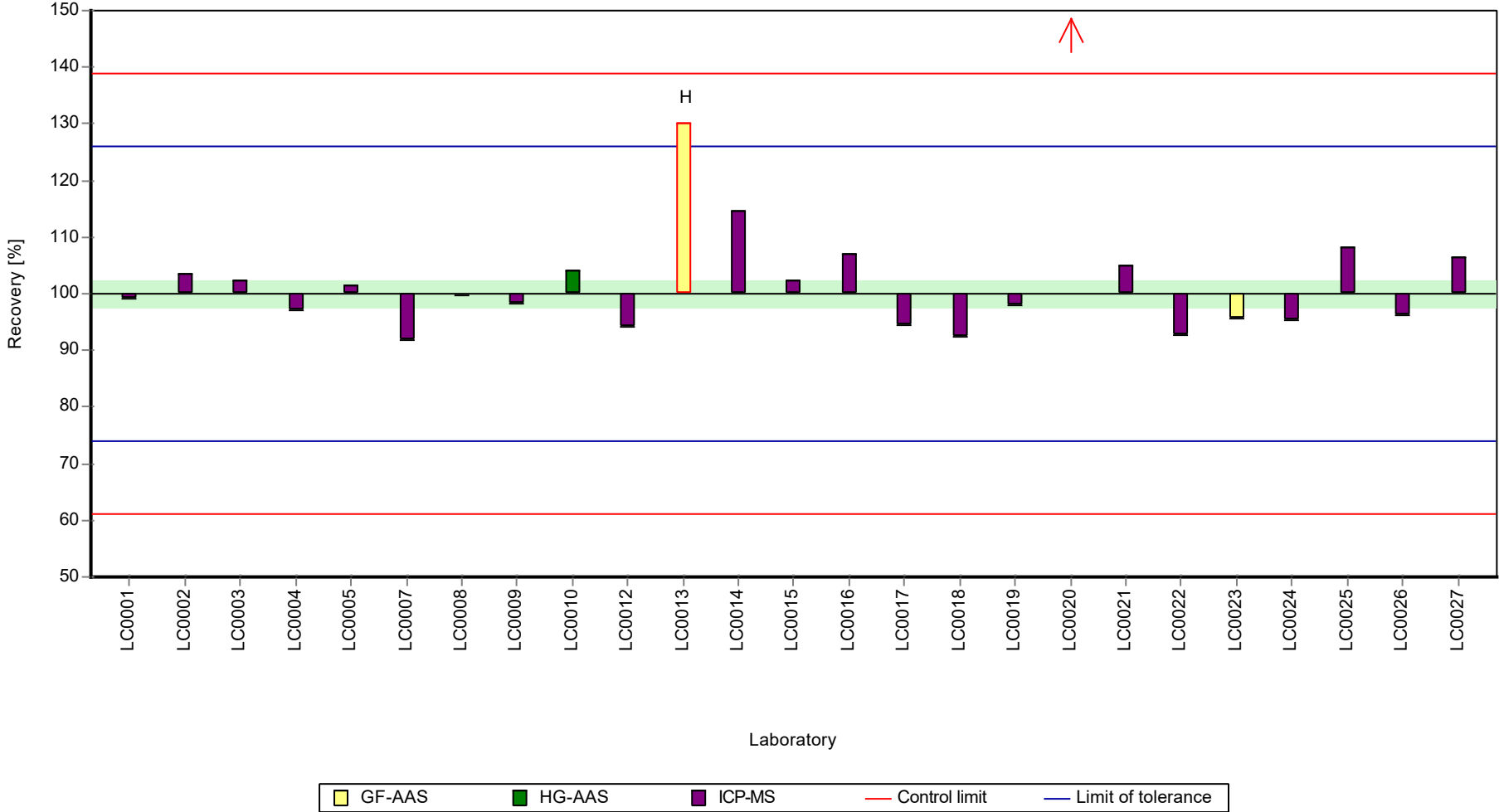
Results



Parameter oriented report Metals and trace elements M175

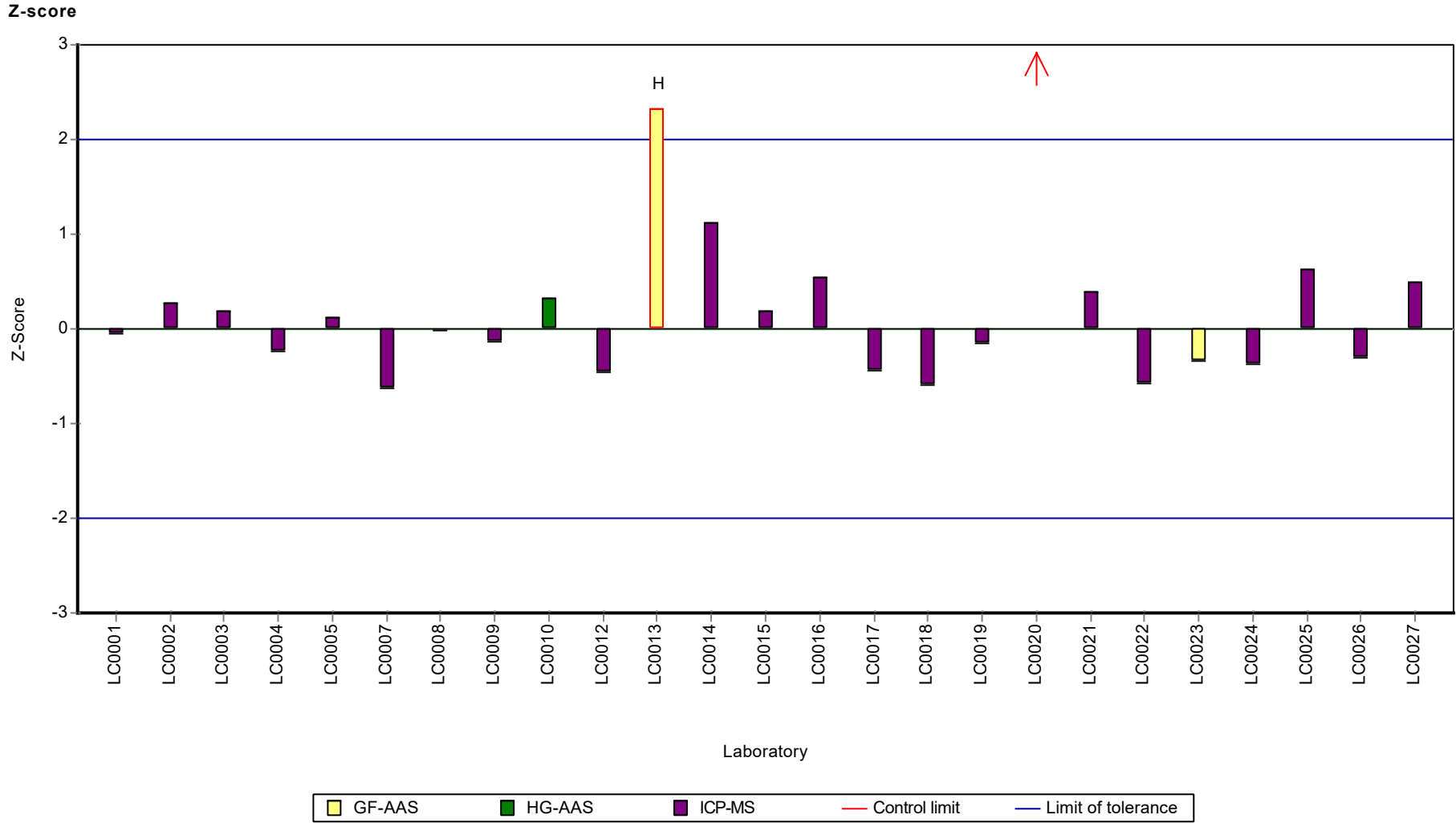
Sample: M175A, Parameter: Arsenic

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Arsenic



Parameter oriented report Metals and trace elements
M175

Sample: M175B, Parameter: Arsenic

Parameter oriented report

M175 B

Arsenic

Unit	µg/l
Assigned value ± U (k=2)	10.2 ± 0.177
Criterion	1.33 (13 %)
Minimum - Maximum	9.48 - 11.2
Control test value ± U (k=2)	10.1 ± 1.12

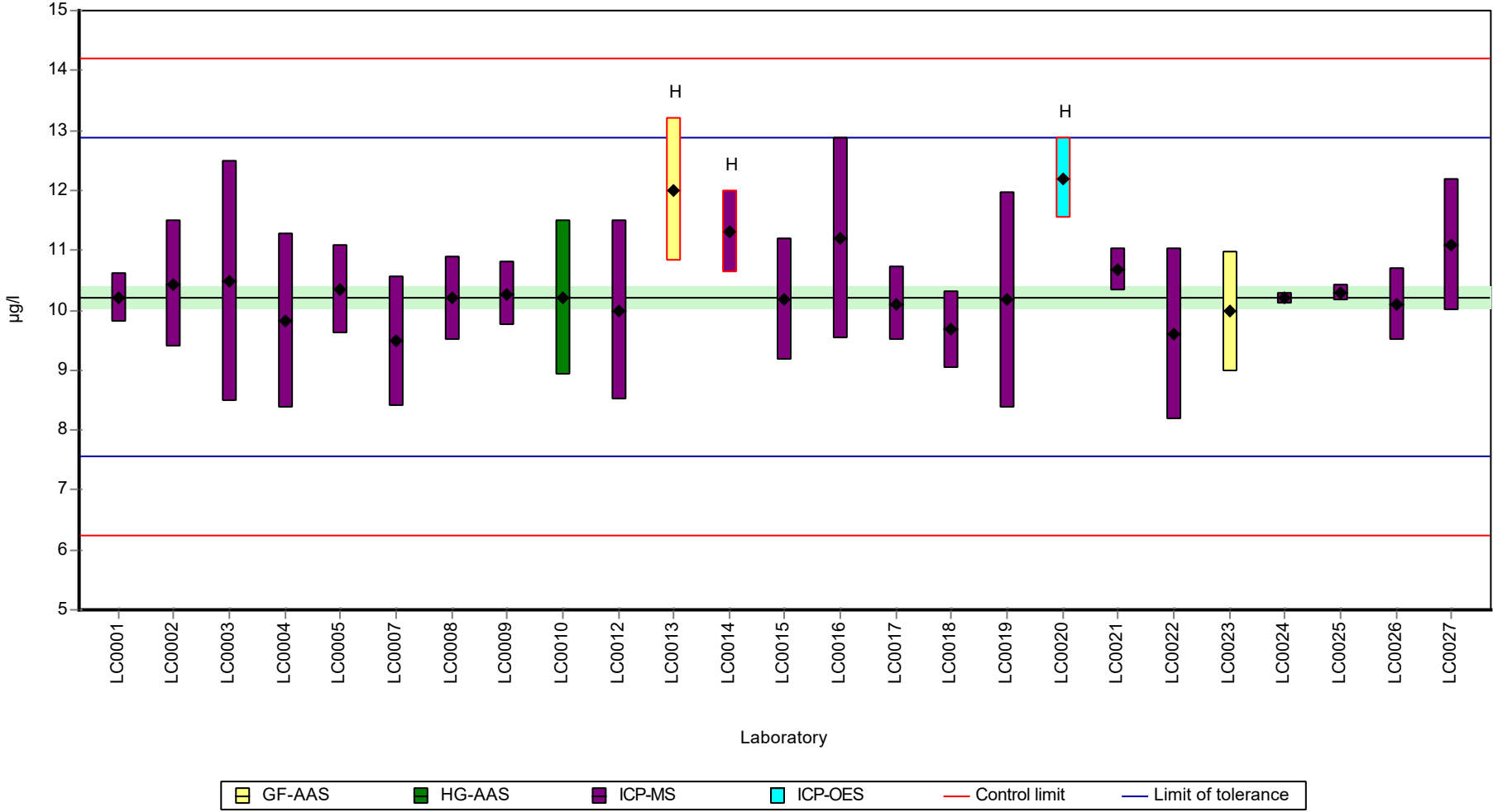
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	10.2	0.41	99.9	-0.01	
LC0002	10.44	1.05	102	0.17	
LC0003	10.48	2.01	103	0.2	
LC0004	9.82	1.47	96.1	-0.3	
LC0005	10.353	0.74	101	0.1	
LC0006	-	-	-	-	
LC0007	9.477	1.1	92.8	-0.55	
LC0008	10.2	0.7	99.9	-0.01	
LC0009	10.27	0.531	101	0.04	
LC0010	10.2	1.3	99.9	-0.01	
LC0011	-	-	-	-	
LC0012	10	1.5	97.9	-0.16	
LC0013	12	1.2	117	1.35	H
LC0014	11.307	0.69	111	0.82	H
LC0015	10.18	1.02	99.7	-0.03	
LC0016	11.2	1.68	110	0.74	
LC0017	10.1	0.62	98.9	-0.09	
LC0018	9.67	0.65	94.7	-0.41	
LC0019	10.17	1.803	99.6	-0.03	
LC0020	12.2	0.68	119	1.5	H
LC0021	10.67	0.36	104	0.34	
LC0022	9.6	1.44	94	-0.46	
LC0023	9.974	0.9974	97.7	-0.18	
LC0024	10.2	0.1	99.9	-0.01	
LC0025	10.3	0.138	101	0.06	
LC0026	10.1	0.606	98.9	-0.09	
LC0027	11.1	1.1	109	0.67	

Characteristics of parameter

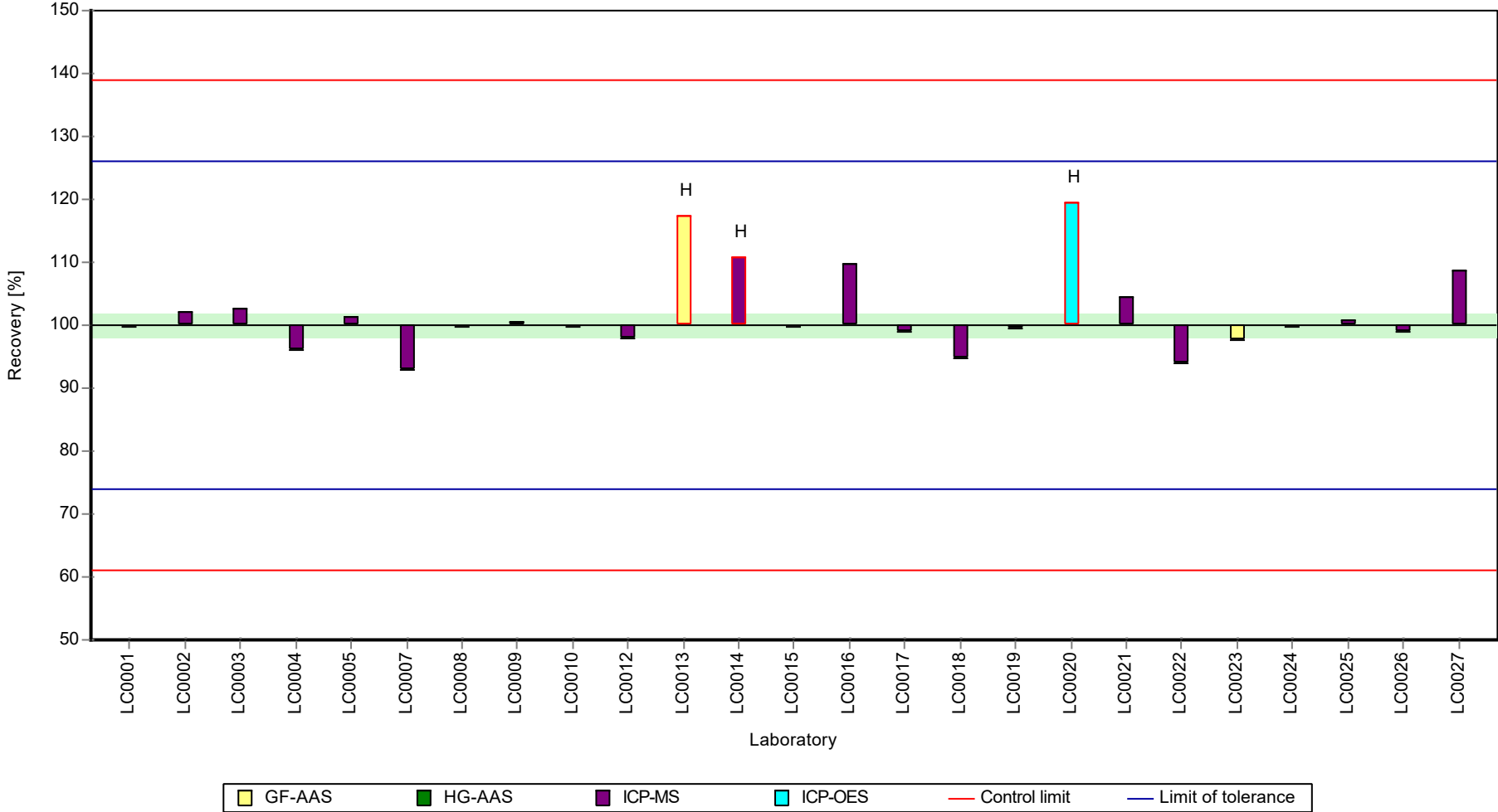
	all results	w without outliers	Unit
Mean ± CI (99%)	10.4 ± 0.406	10.2 ± 0.266	µg/l
Minimum	9.48	9.48	µg/l
Maximum	12.2	11.2	µg/l
Standard deviation	0.677	0.415	µg/l
rel. standard deviation	6.51	4.07	%
n	25	22	-

Graphical presentation of results

Results

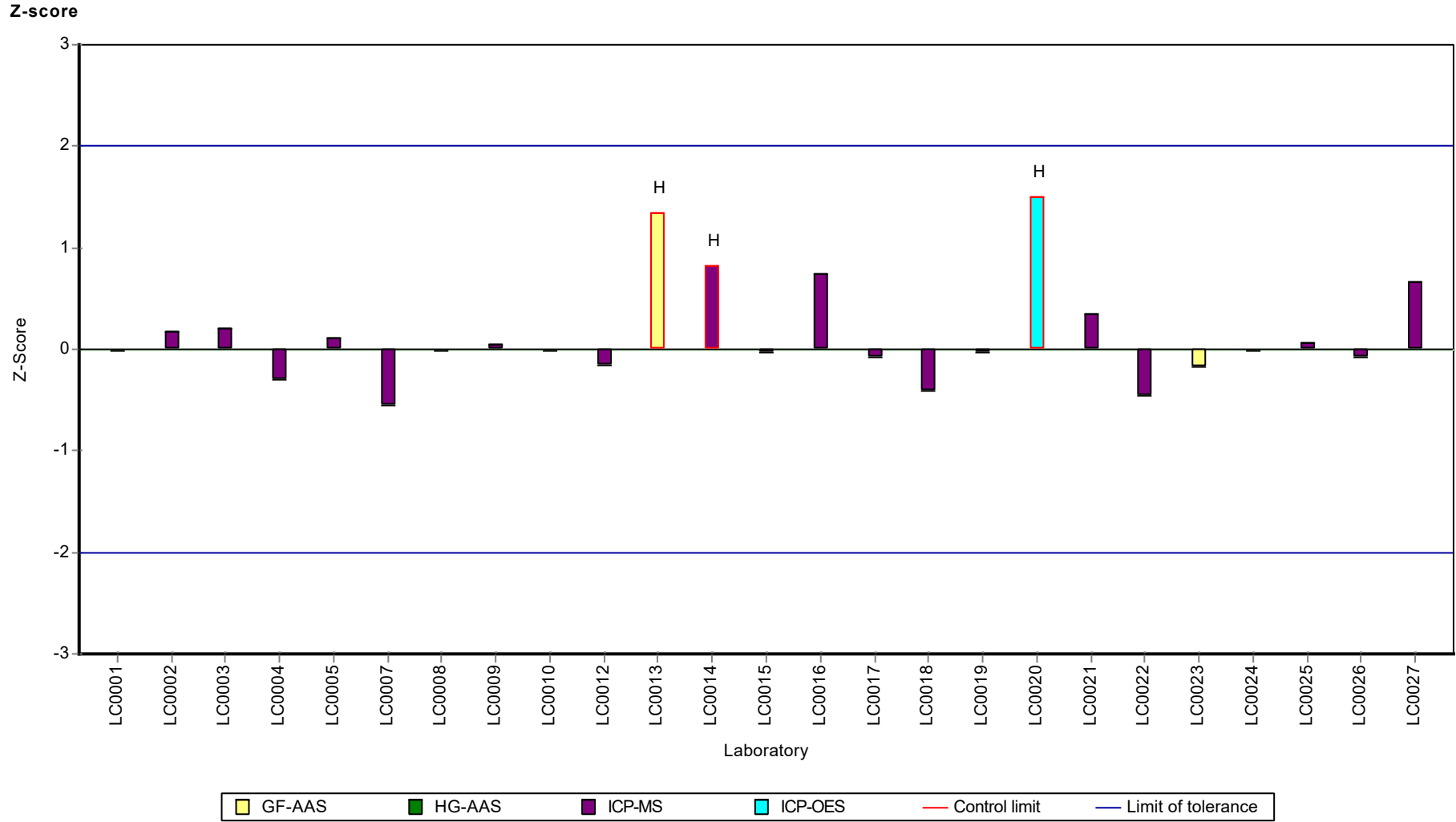


Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Arsenic



Parameter oriented report Metals and trace elements
M175

Sample: M175A, Parameter: Lead

Parameter oriented report

M175 A

Lead

Unit	µg/l
Assigned value ± U (k=2)	1.84 ± 0.0805
Criterion	0.184 (10 %)
Minimum - Maximum	1.5 - 2.2
Control test value ± U (k=2)	1.80 ± 0.234

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.89	0.1	103	0.3	
LC0002	1.814	0.181	98.8	-0.12	
LC0003	1.91	0.77	104	0.4	
LC0004	2.08	0.31	113	1.33	
LC0005	1.838	0.09	100	0.01	
LC0006	-	-	-	-	
LC0007	1.924	0.19	105	0.48	
LC0008	3.48	0.24	190	8.96	H
LC0009	1.896	0.0823	103	0.33	
LC0010	< 5 (LOQ)	-	-	-	
LC0011	-	-	-	-	
LC0012	1.89	0.23	103	0.3	
LC0013	3	1	163	6.34	H
LC0014	1.559	0.128	84.9	-1.51	
LC0015	1.58	0.16	86.1	-1.39	
LC0016	1.8	0.18	98	-0.2	
LC0017	1.79	0.031	97.5	-0.25	
LC0018	3.6	0.24	196	9.61	H
LC0019	3.773	0.711	206	10.55	H
LC0020	2.2	0.08	120	1.98	
LC0021	1.64	0.06	89.3	-1.07	
LC0022	1.8	0.27	98	-0.2	
LC0023	2.794	0.2794	152	5.22	H
LC0024	1.85	0.12	101	0.08	
LC0025	1.89	0.0531	103	0.3	
LC0026	2.03	0.183	111	1.06	
LC0027	1.5	0.15	81.7	-1.83	

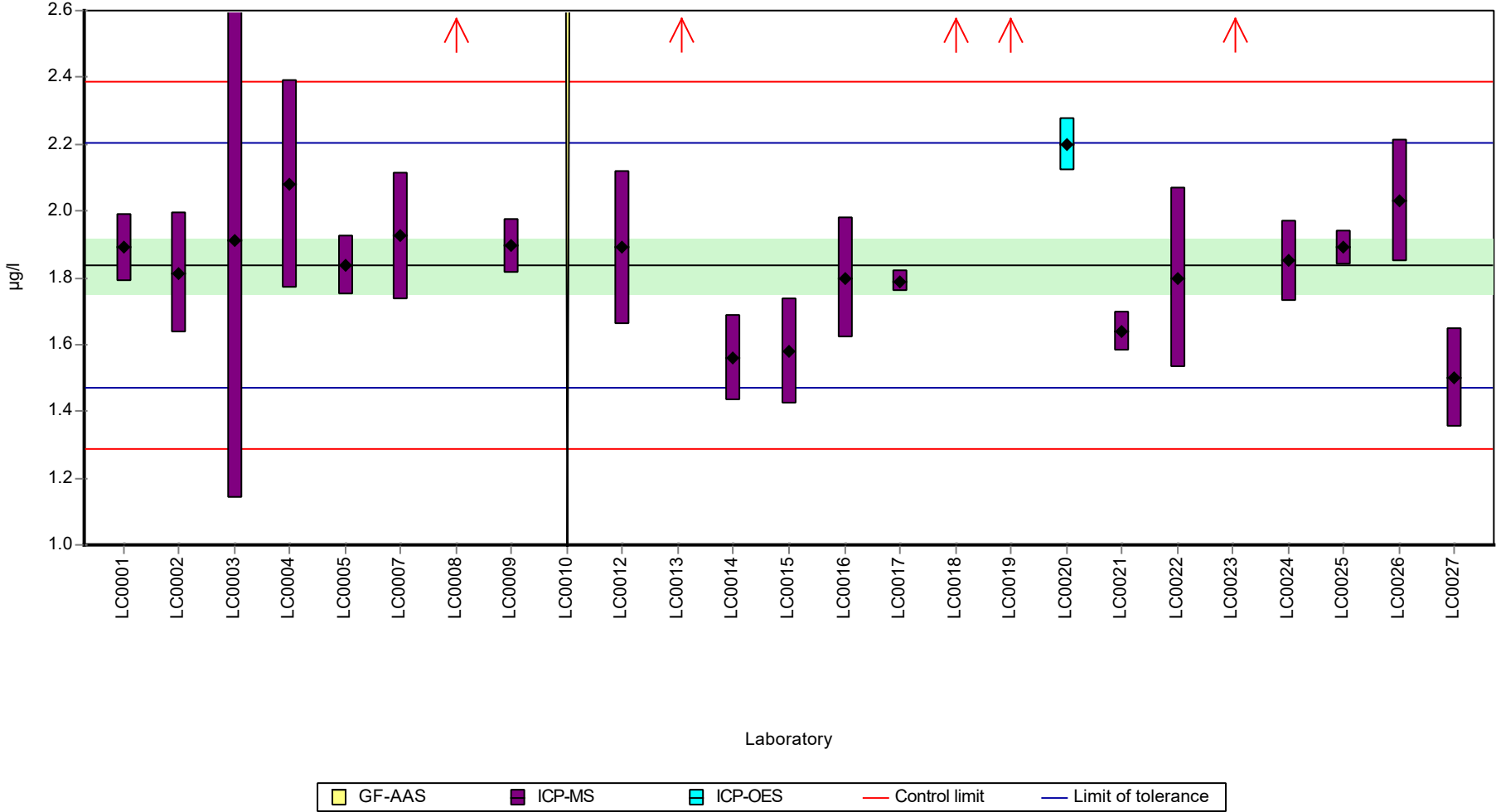
Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	2.15 ± 0.405	1.84 ± 0.121	µg/l
Minimum	1.5	1.5	µg/l
Maximum	3.77	2.2	µg/l
Standard deviation	0.662	0.175	µg/l
rel. standard deviation	30.8	9.56	%
n	24	19	-

Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Lead

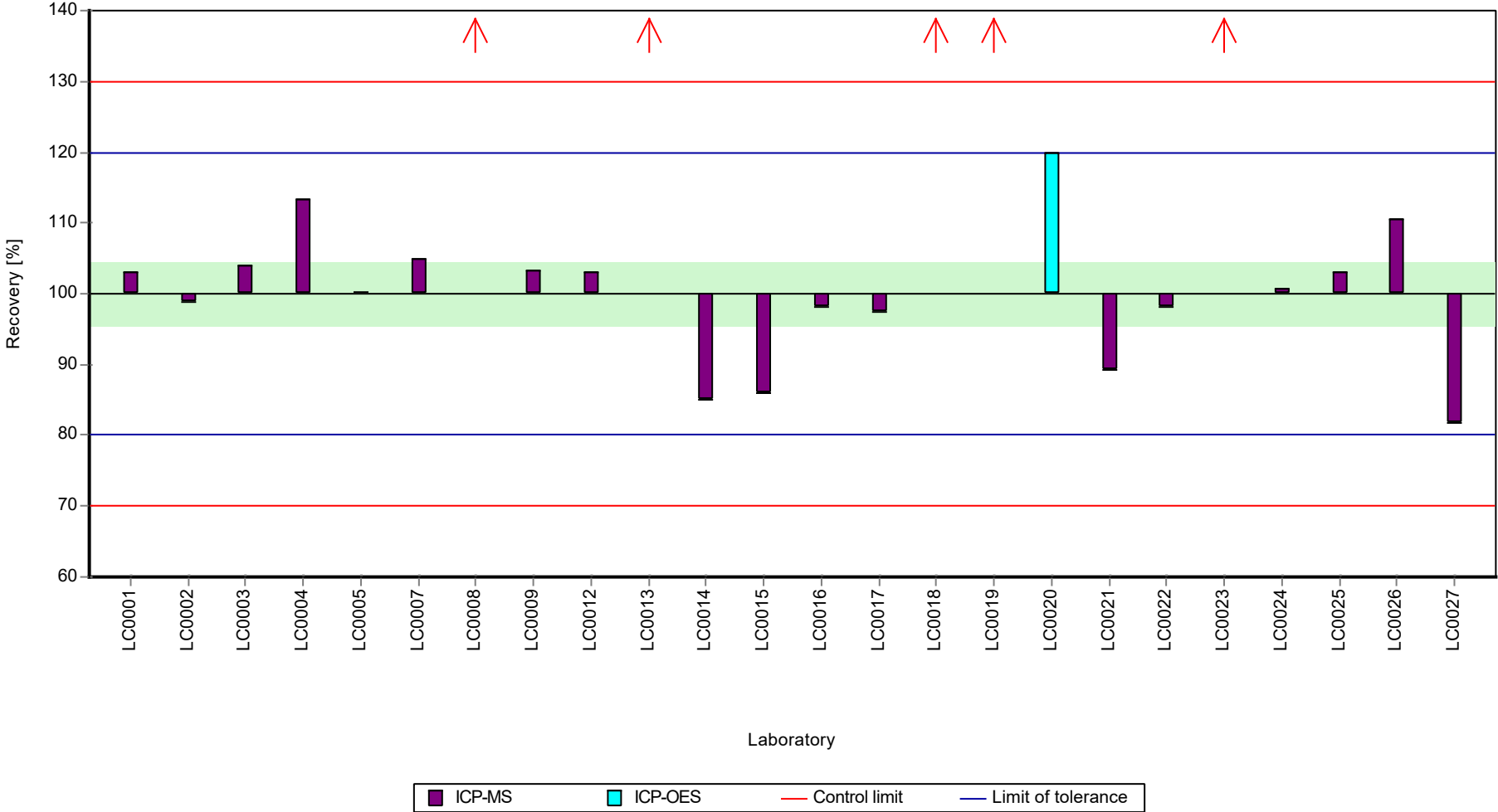
Graphical presentation of results
 Results



Parameter oriented report Metals and trace elements M175

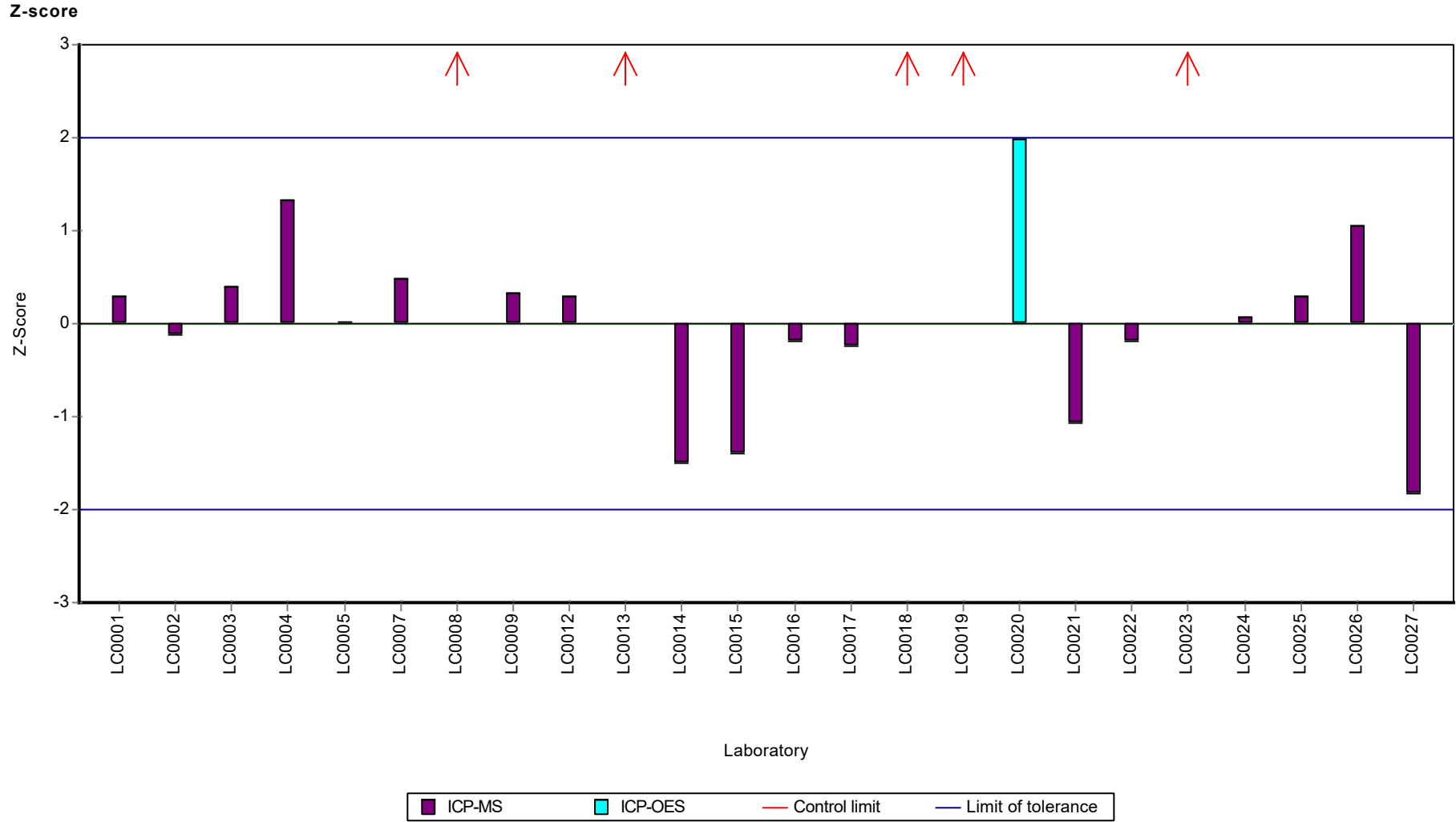
Sample: M175A, Parameter: Lead

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Lead



Parameter oriented report Metals and trace elements
M175

Sample: M175B, Parameter: Lead

Parameter oriented report

M175 B

Lead

Unit	µg/l
Assigned value ± U (k=2)	17.7 ± 0.414
Criterion	1.77 (10 %)
Minimum - Maximum	15.5 - 19.8
Control test value ± U (k=2)	16.3 ± 2.12

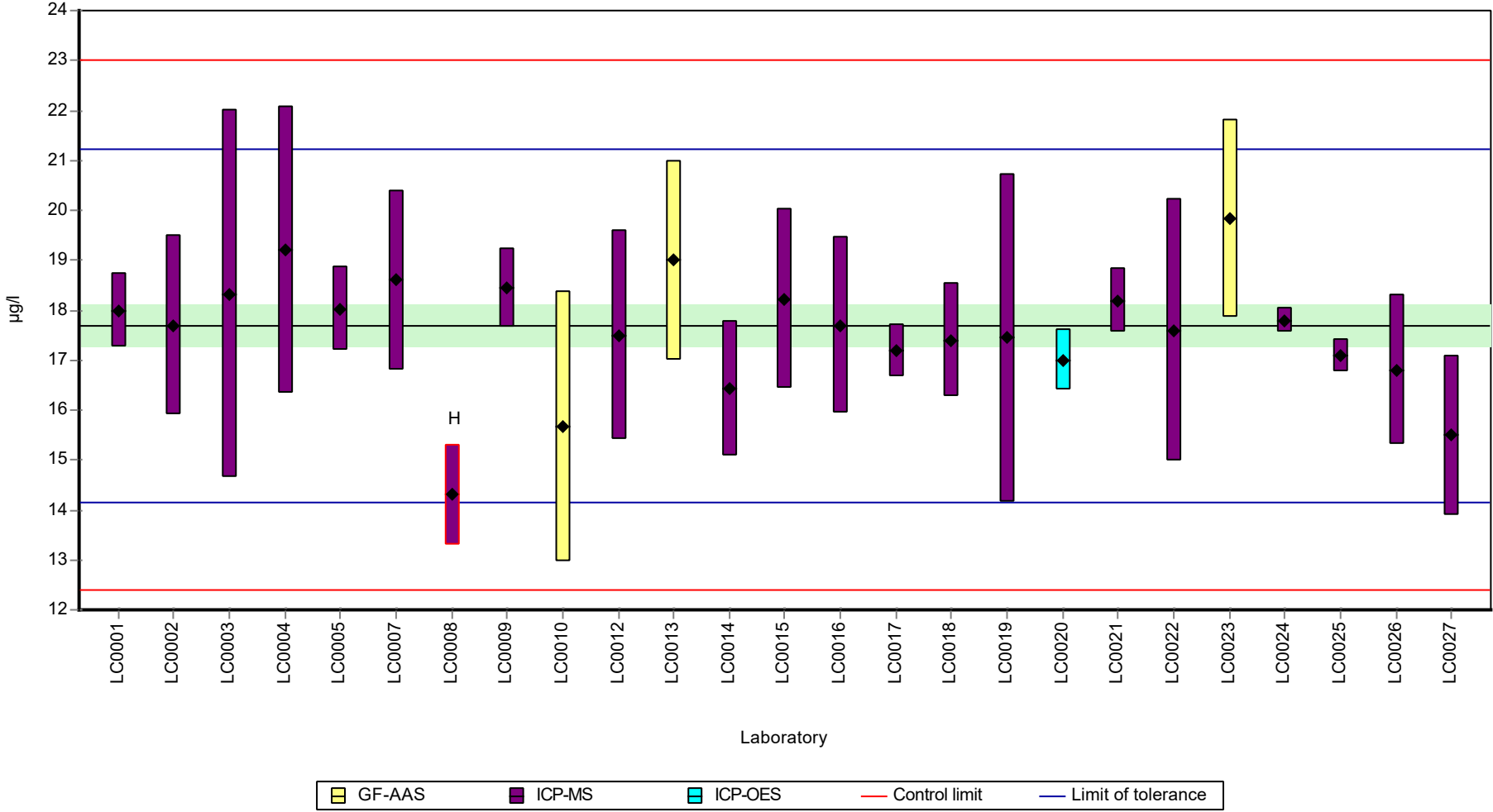
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	18	0.76	102	0.17	
LC0002	17.7	1.8	100	0.00	
LC0003	18.33	3.7	104	0.36	
LC0004	19.2	2.88	109	0.85	
LC0005	18.031	0.84	102	0.19	
LC0006	-	-	-	-	
LC0007	18.596	1.8	105	0.51	
LC0008	14.3	1	80.8	-1.92	H
LC0009	18.44	0.8	104	0.42	
LC0010	15.67	2.7	88.6	-1.14	
LC0011	-	-	-	-	
LC0012	17.5	2.1	98.9	-0.11	
LC0013	19	2	107	0.74	
LC0014	16.424	1.347	92.8	-0.72	
LC0015	18.23	1.8	103	0.3	
LC0016	17.7	1.77	100	0.00	
LC0017	17.2	0.53	97.2	-0.28	
LC0018	17.4	1.15	98.3	-0.17	
LC0019	17.44	3.284	98.6	-0.14	
LC0020	17	0.61	96.1	-0.39	
LC0021	18.19	0.64	103	0.28	
LC0022	17.6	2.64	99.5	-0.05	
LC0023	19.824	1.9824	112	1.2	
LC0024	17.8	0.25	101	0.06	
LC0025	17.1	0.324	96.6	-0.34	
LC0026	16.8	1.51	94.9	-0.51	
LC0027	15.5	1.6	87.6	-1.24	

Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	17.6 ± 0.721	17.7 ± 0.621	µg/l
Minimum	14.3	15.5	µg/l
Maximum	19.8	19.8	µg/l
Standard deviation	1.2	1.01	µg/l
rel. standard deviation	6.85	5.73	%
n	25	24	-

Graphical presentation of results

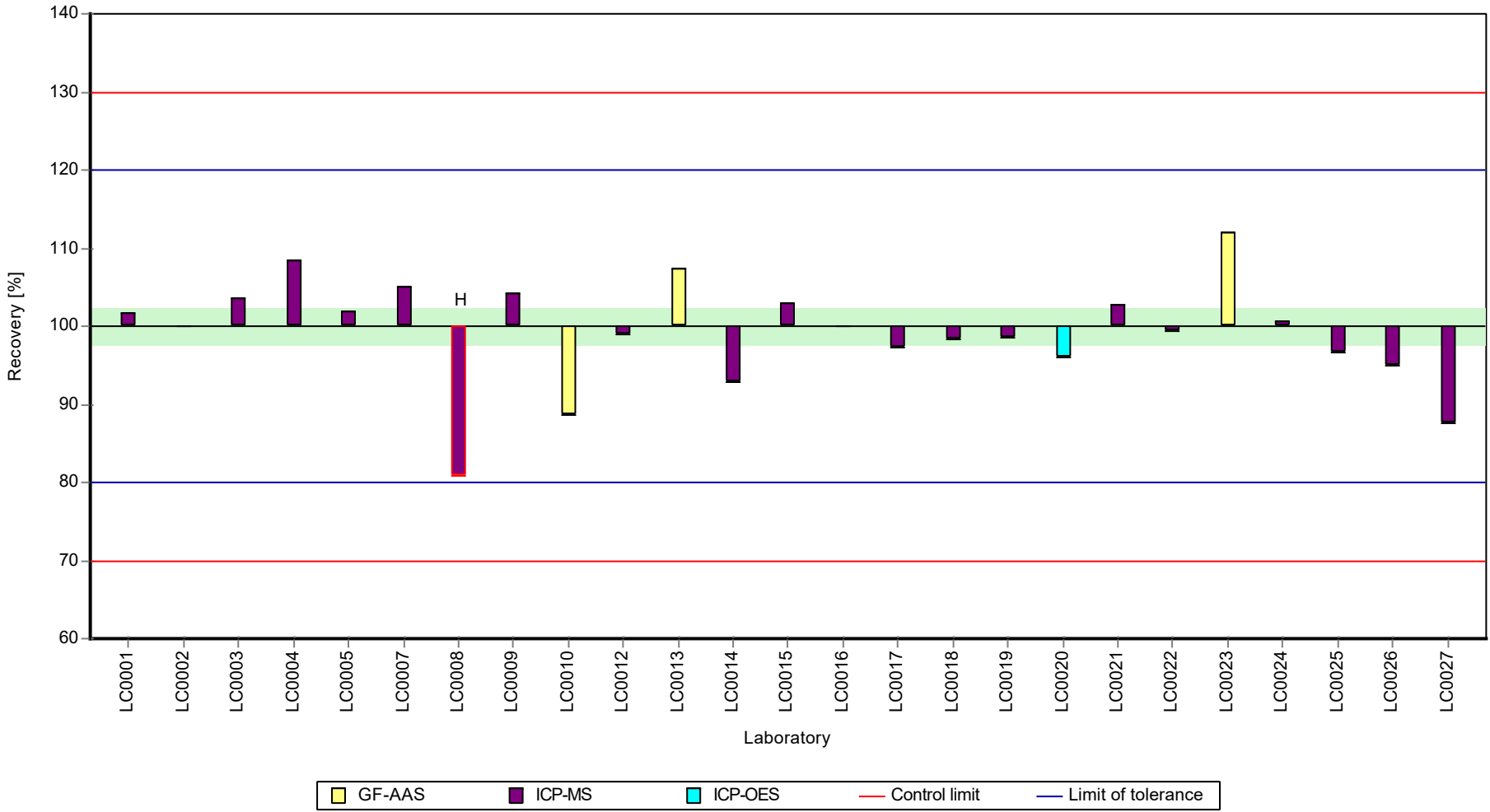
Results



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Lead

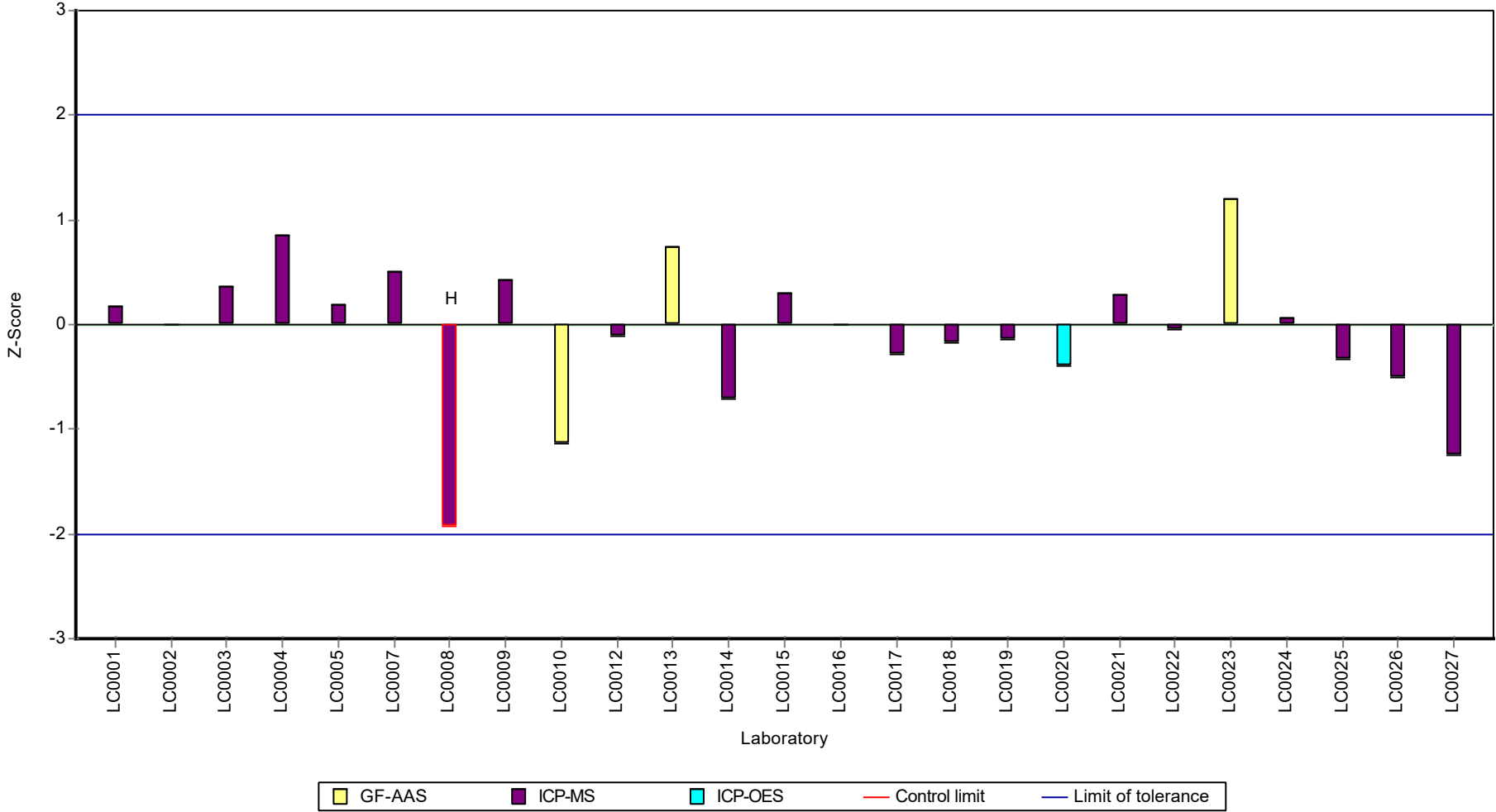
Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Lead

Z-score



Parameter oriented report Metals and trace elements
M175

Sample: M175A, Parameter: Cadmium

Parameter oriented report

M175 A

Cadmium

Unit	µg/l
Assigned value ± U (k=2)	1.53 ± 0.0318
Criterion	0.153 (10 %)
Minimum - Maximum	1.38 - 1.7
Control test value ± U (k=2)	1.470 ± 0.147

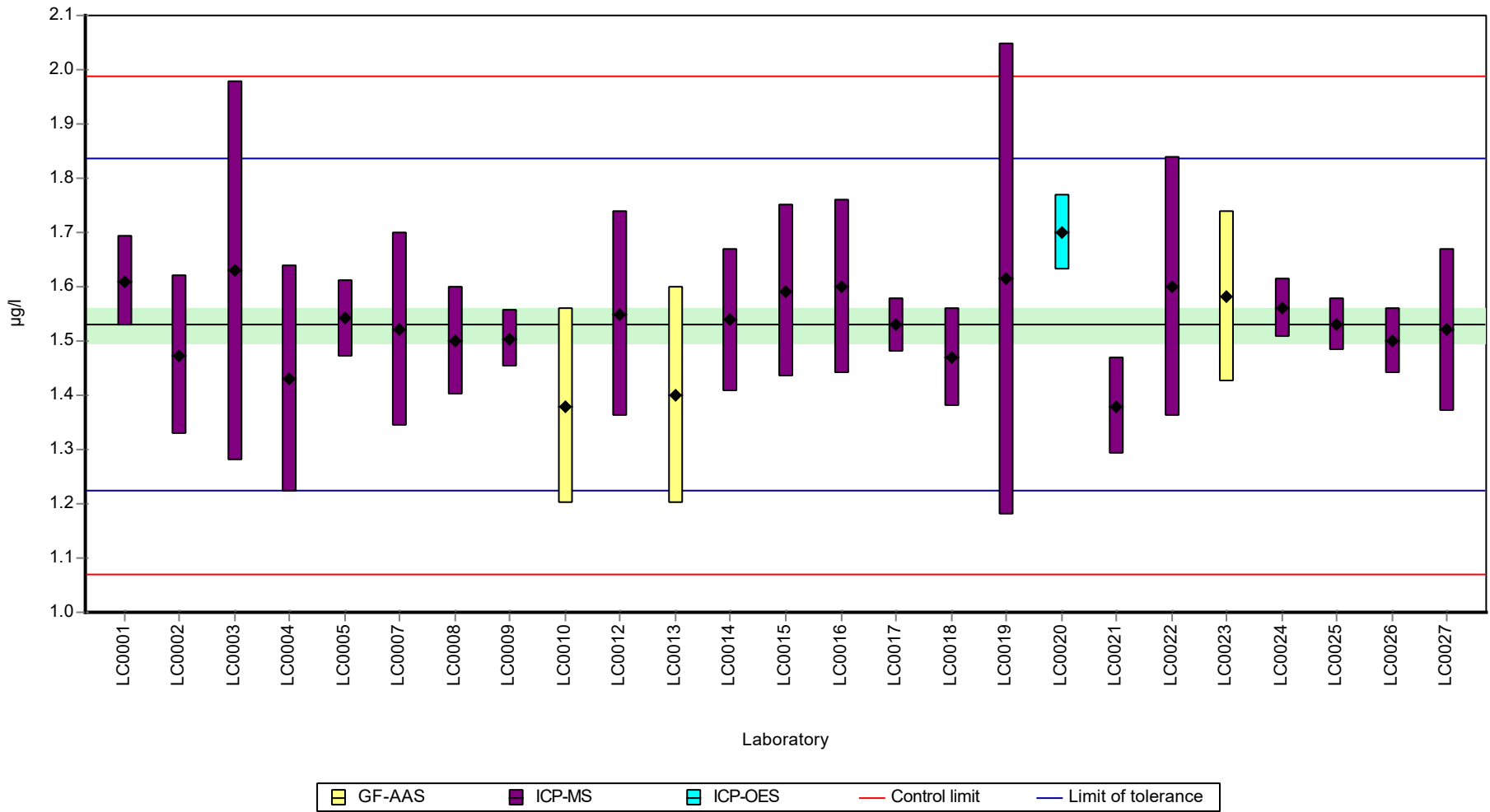
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.61	0.083	105	0.52	
LC0002	1.474	0.147	96.3	-0.37	
LC0003	1.63	0.35	107	0.65	
LC0004	1.43	0.21	93.5	-0.65	
LC0005	1.541	0.07	101	0.07	
LC0006	-	-	-	-	
LC0007	1.521	0.18	99.4	-0.06	
LC0008	1.5	0.1	98	-0.2	
LC0009	1.504	0.0533	98.3	-0.17	
LC0010	1.38	0.18	90.2	-0.98	
LC0011	-	-	-	-	
LC0012	1.55	0.19	101	0.13	
LC0013	1.4	0.2	91.5	-0.85	
LC0014	1.538	0.131	101	0.05	
LC0015	1.592	0.16	104	0.4	
LC0016	1.6	0.16	105	0.46	
LC0017	1.53	0.05	100	0.00	
LC0018	1.47	0.09	96.1	-0.39	
LC0019	1.614	0.435	105	0.55	
LC0020	1.7	0.07	111	1.11	
LC0021	1.38	0.09	90.2	-0.98	
LC0022	1.6	0.24	105	0.46	
LC0023	1.581	0.1581	103	0.33	
LC0024	1.56	0.055	102	0.19	
LC0025	1.53	0.0481	100	0.00	
LC0026	1.5	0.06	98	-0.2	
LC0027	1.52	0.15	99.3	-0.07	

Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	1.53 ± 0.0477	1.53 ± 0.0477	µg/l
Minimum	1.38	1.38	µg/l
Maximum	1.7	1.7	µg/l
Standard deviation	0.0794	0.0794	µg/l
rel. standard deviation	5.19	5.19	%
n	25	25	-

Graphical presentation of results

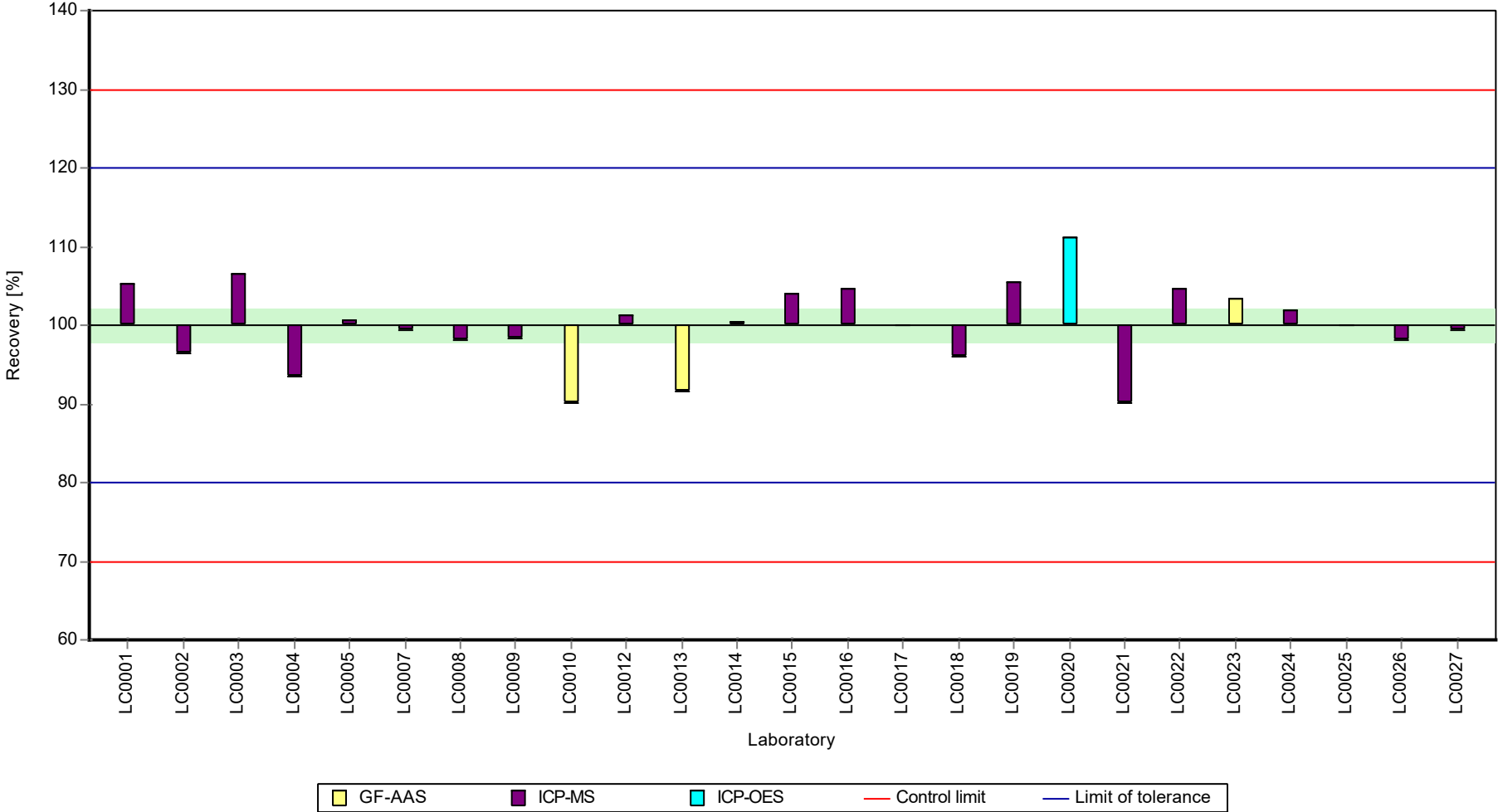
Results



Parameter oriented report Metals and trace elements M175

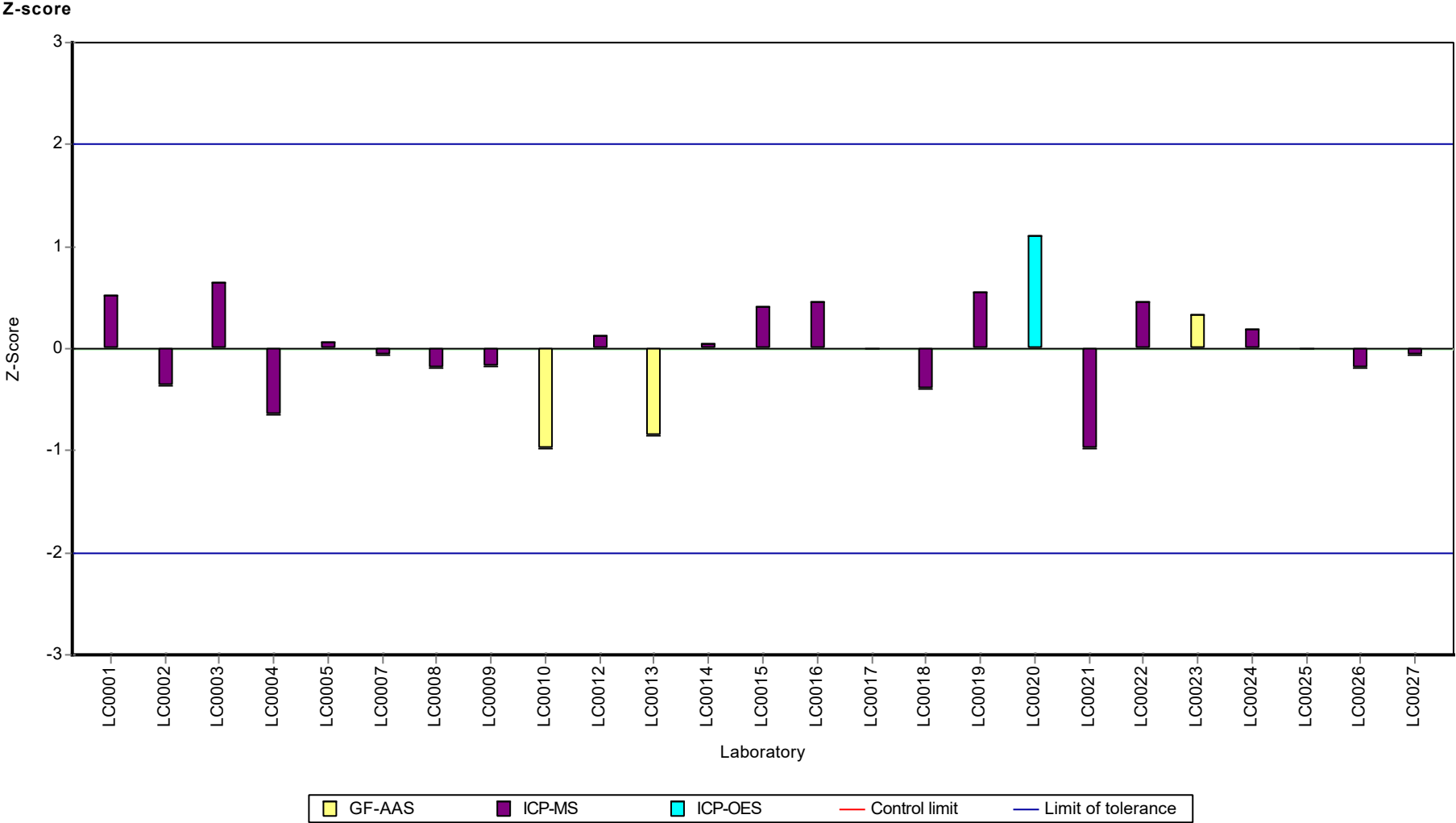
Sample: M175A, Parameter: Cadmium

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Cadmium



Parameter oriented report Metals and trace elements
M175

Sample: M175B, Parameter: Cadmium

Parameter oriented report

M175 B

Cadmium

Unit	µg/l
Assigned value ± U (k=2)	4.92 ± 0.0597
Criterion	0.492 (10 %)
Minimum - Maximum	4.66 - 5.23
Control test value ± U (k=2)	4.63 ± 0.463

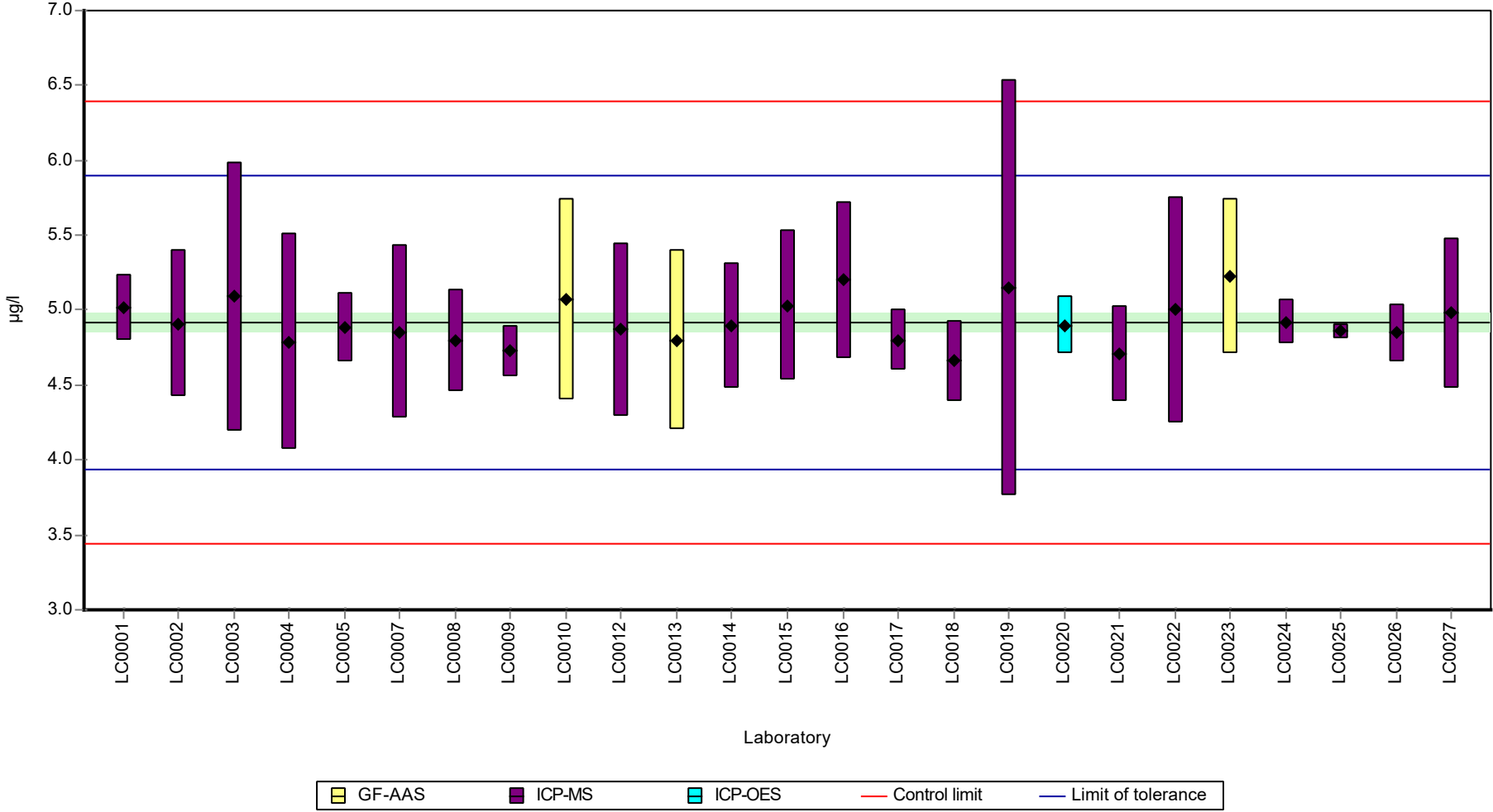
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	5.02	0.22	102	0.2	
LC0002	4.91	0.49	99.8	-0.02	
LC0003	5.09	0.9	103	0.35	
LC0004	4.79	0.72	97.4	-0.26	
LC0005	4.886	0.23	99.3	-0.07	
LC0006	-	-	-	-	
LC0007	4.855	0.58	98.7	-0.13	
LC0008	4.8	0.34	97.6	-0.24	
LC0009	4.725	0.167	96	-0.4	
LC0010	5.07	0.67	103	0.31	
LC0011	-	-	-	-	
LC0012	4.87	0.58	99	-0.1	
LC0013	4.8	0.6	97.6	-0.24	
LC0014	4.893	0.416	99.5	-0.05	
LC0015	5.03	0.5	102	0.22	
LC0016	5.2	0.52	106	0.57	
LC0017	4.8	0.2	97.6	-0.24	
LC0018	4.66	0.27	94.7	-0.53	
LC0019	5.147	1.388	105	0.46	
LC0020	4.9	0.19	99.6	-0.04	
LC0021	4.71	0.32	95.7	-0.43	
LC0022	5	0.75	102	0.16	
LC0023	5.225	0.5225	106	0.62	
LC0024	4.92	0.15	100	0	
LC0025	4.86	0.0509	98.8	-0.12	
LC0026	4.85	0.194	98.6	-0.14	
LC0027	4.98	0.5	101	0.12	

Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	4.92 ± 0.0895	4.92 ± 0.0895	µg/l
Minimum	4.66	4.66	µg/l
Maximum	5.23	5.23	µg/l
Standard deviation	0.149	0.149	µg/l
rel. standard deviation	3.03	3.03	%
n	25	25	-

Graphical presentation of results

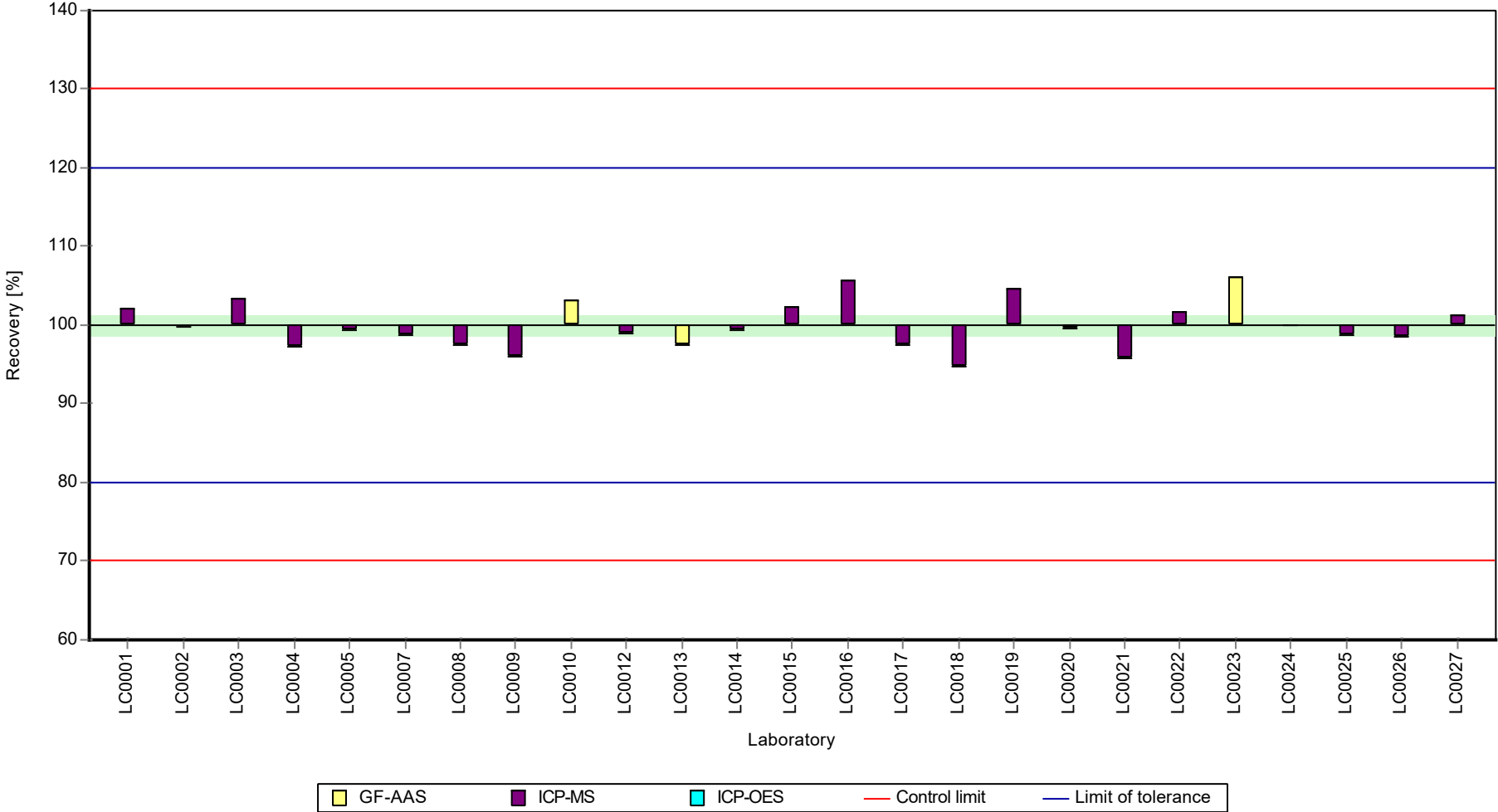
Results



Parameter oriented report Metals and trace elements M175

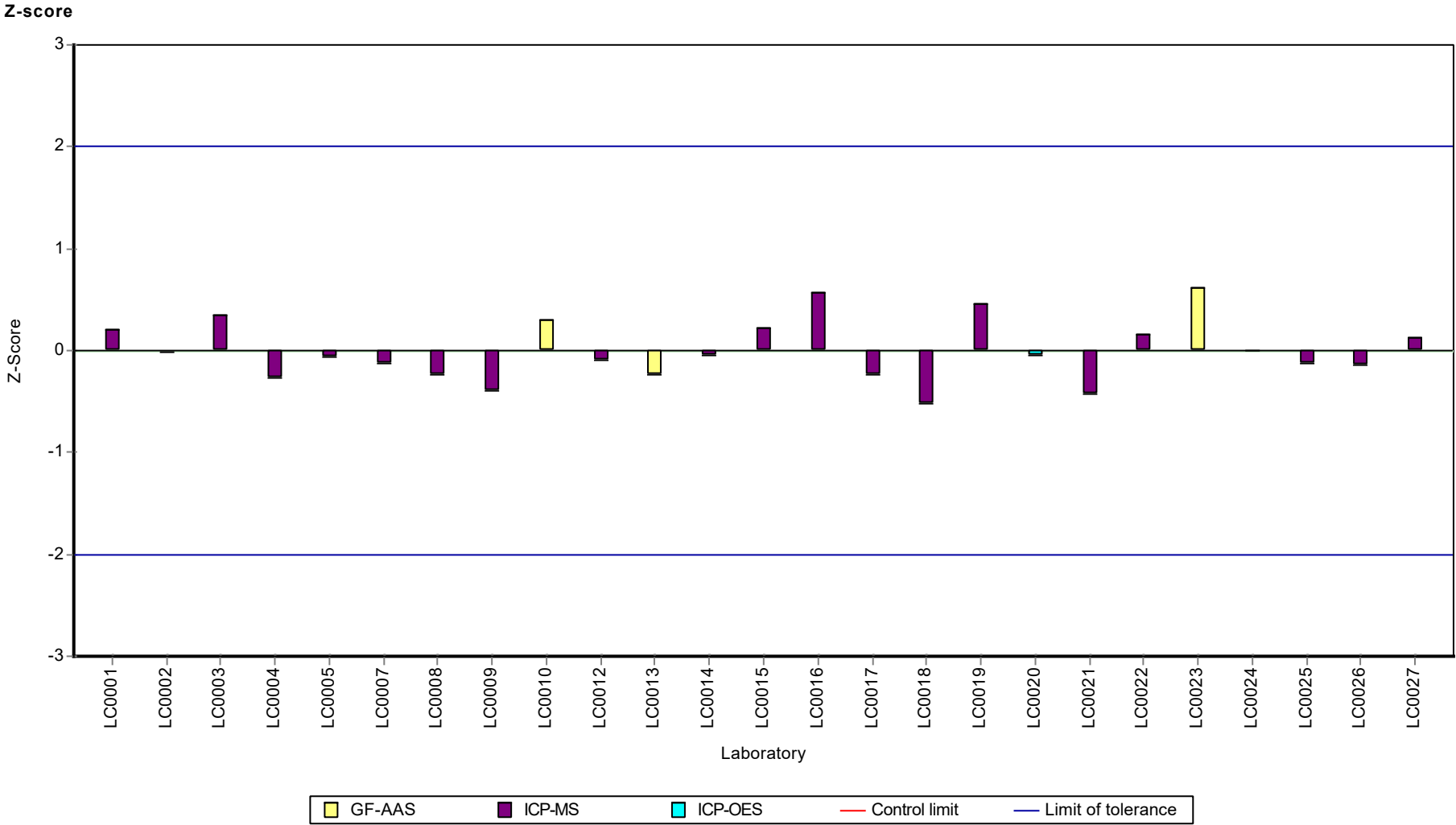
Sample: M175B, Parameter: Cadmium

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Cadmium



Parameter oriented report Metals and trace elements
M175

Sample: M175A, Parameter: Chromium

Parameter oriented report

M175 A

Chromium

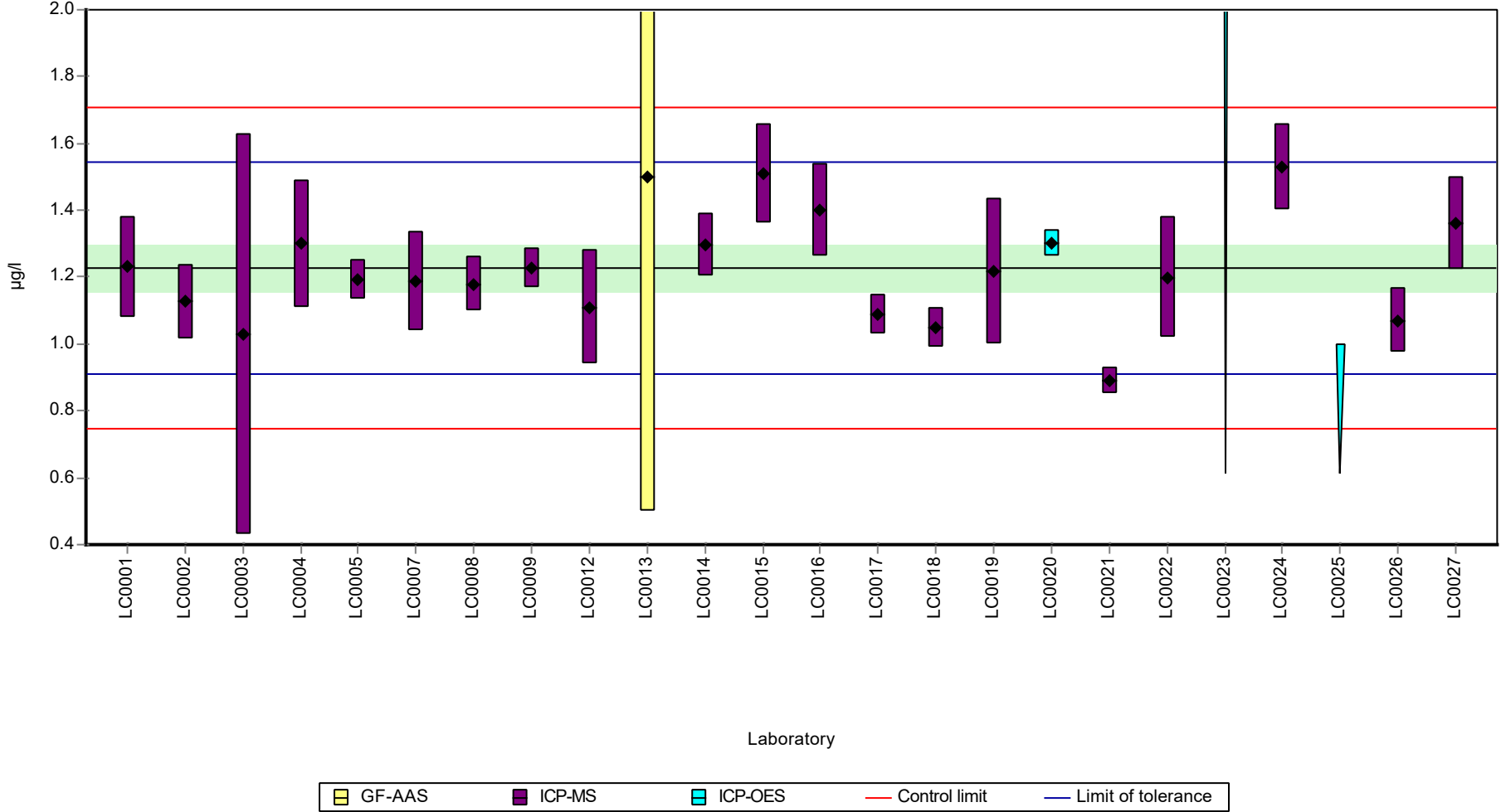
Unit	µg/l
Assigned value ± U (k=2)	1.23 ± 0.07
Criterion	0.16 (13 %)
Minimum - Maximum	0.89 - 1.53
Control test value ± U (k=2)	1.20 ± 0.12

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.23	0.15	100	0.02	
LC0002	1.126	0.113	91.8	-0.63	
LC0003	1.03	0.6	83.9	-1.24	
LC0004	1.3	0.19	106	0.46	
LC0005	1.191	0.06	97.1	-0.23	
LC0006	-	-	-	-	
LC0007	1.187	0.15	96.7	-0.25	
LC0008	1.18	0.08	96.2	-0.29	
LC0009	1.228	0.059	100	0.01	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	1.11	0.17	90.5	-0.73	
LC0013	1.5	1	122	1.71	
LC0014	1.296	0.093	106	0.43	
LC0015	1.51	0.15	123	1.77	
LC0016	1.4	0.14	114	1.08	
LC0017	1.09	0.06	88.8	-0.86	
LC0018	1.05	0.06	85.6	-1.11	
LC0019	1.217	0.218	99.2	-0.06	
LC0020	1.3	0.04	106	0.46	
LC0021	0.89	0.04	72.5	-2.11	
LC0022	1.2	0.18	97.8	-0.17	
LC0023	< 5 (LOQ)	-	-	-	
LC0024	1.53	0.13	125	1.9	
LC0025	< 1 (LOQ)	-	-	-	
LC0026	1.07	0.096	87.2	-0.98	
LC0027	1.36	0.14	111	0.83	

Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	1.23 ± 0.105	1.23 ± 0.105	µg/l
Minimum	0.89	0.89	µg/l
Maximum	1.53	1.53	µg/l
Standard deviation	0.164	0.164	µg/l
rel. standard deviation	13.4	13.4	%
n	22	22	-

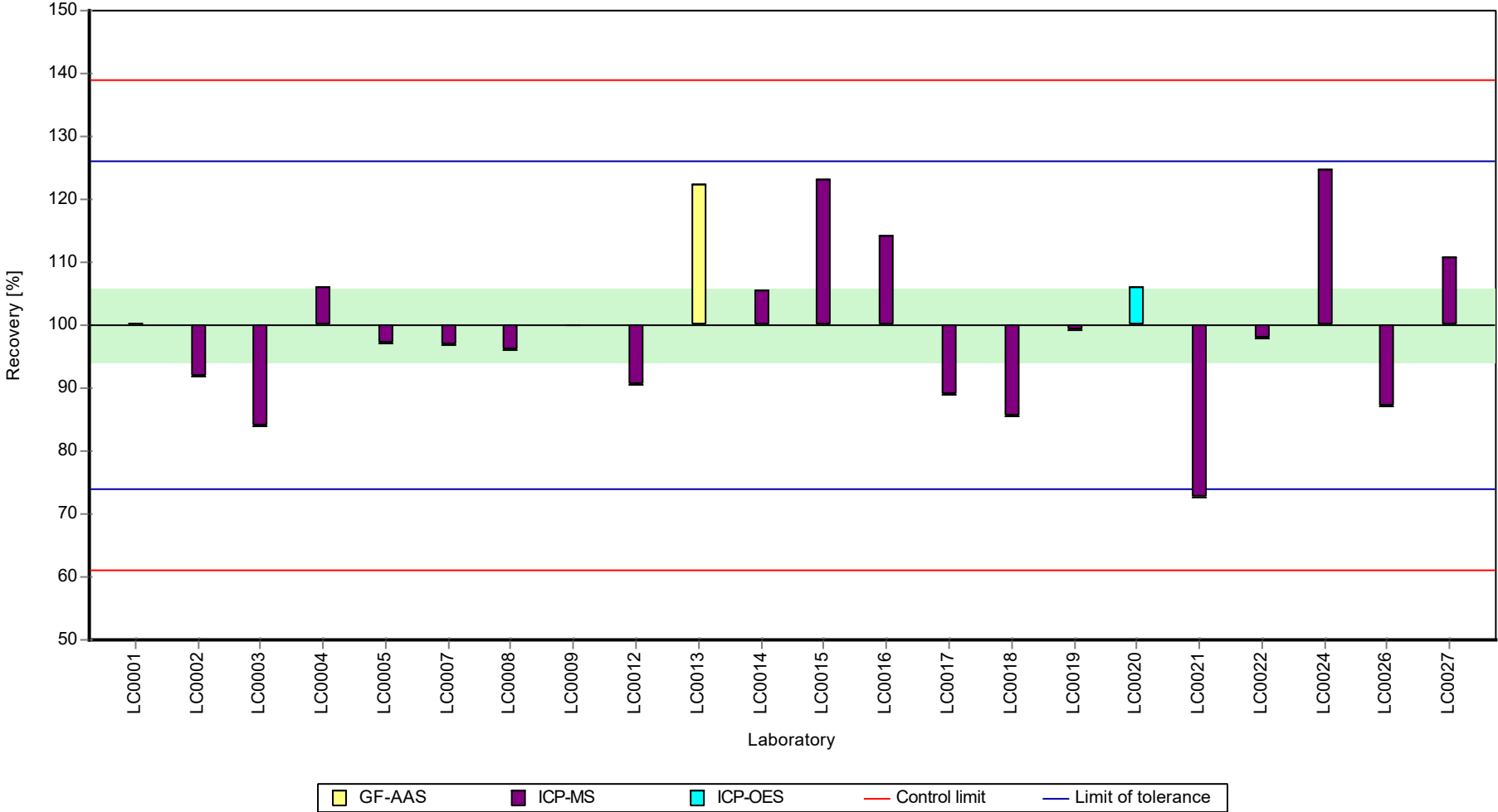
Graphical presentation of results
Results



Parameter oriented report Metals and trace elements M175

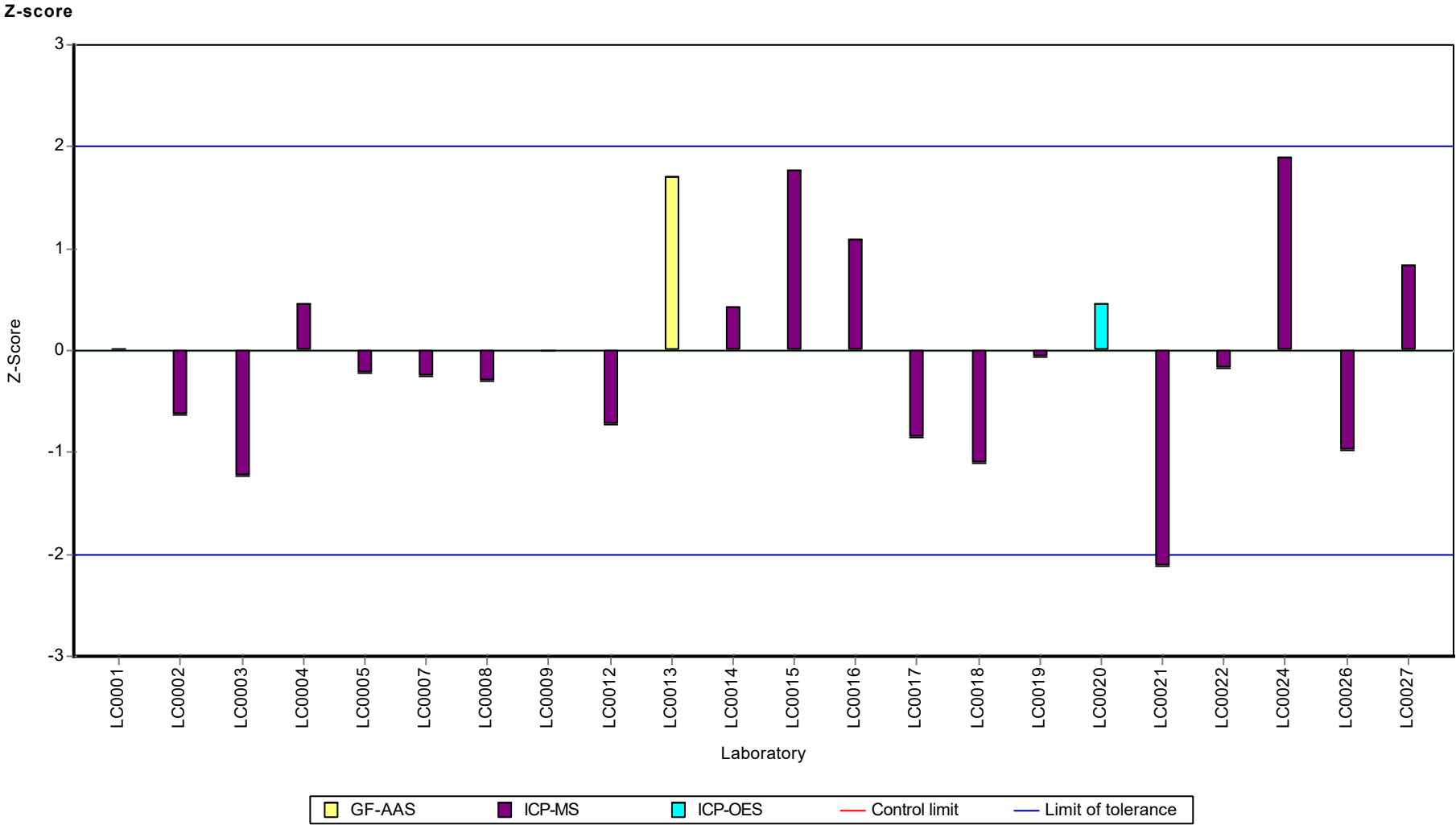
Sample: M175A, Parameter: Chromium

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Chromium



Parameter oriented report Metals and trace elements
M175

Sample: M175B, Parameter: Chromium

Parameter oriented report

M175 B

Chromium

Unit	µg/l
Assigned value ± U (k=2)	30.7 ± 0.674
Criterion	2.61 (8.5 %)
Minimum - Maximum	27 - 34
Control test value ± U (k=2)	29.0 ± 2.9

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	30.8	0.61	100	0.04	
LC0002	31.46	3.15	102	0.29	
LC0003	31.8	4.4	104	0.42	
LC0004	32.5	4.88	106	0.69	
LC0005	32.103	1.64	105	0.53	
LC0006	-	-	-	-	
LC0007	30.609	3.75	99.7	-0.04	
LC0008	31	2.2	101	0.11	
LC0009	31.88	1.53	104	0.45	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	30.4	4.6	99	-0.12	
LC0013	27	4	87.9	-1.42	
LC0014	33.969	2.446	111	1.25	
LC0015	30.2	3	98.3	-0.19	
LC0016	27.8	2.78	90.5	-1.11	
LC0017	28.5	1.08	92.8	-0.85	
LC0018	29.95	1.83	97.5	-0.29	
LC0019	30.69	5.496	99.9	-0.01	
LC0020	30.9	1.02	101	0.07	
LC0021	32.04	1.55	104	0.51	
LC0022	30.5	4.58	99.3	-0.08	
LC0023	29.67	3.83336	96.6	-0.4	
LC0024	32.5	0.29	106	0.69	
LC0025	32.6	0.673	106	0.73	
LC0026	29.5	2.66	96.1	-0.46	
LC0027	28.6	2.9	93.1	-0.81	

Characteristics of parameter

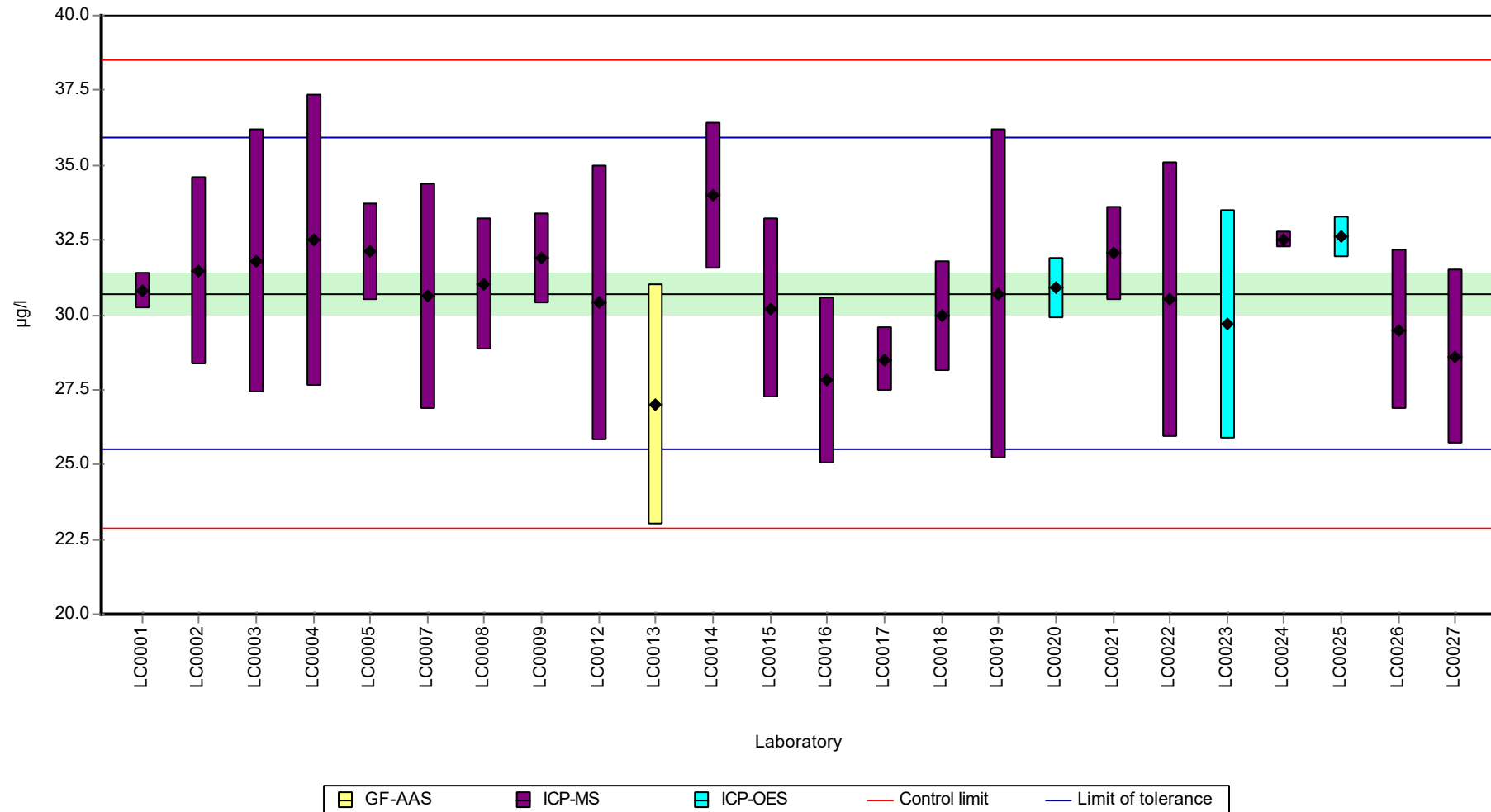
	all results	w without outliers	Unit
Mean ± CI (99%)	30.7 ± 1.01	30.7 ± 1.01	µg/l
Minimum	27	27	µg/l
Maximum	34	34	µg/l
Standard deviation	1.65	1.65	µg/l
rel. standard deviation	5.38	5.38	%
n	24	24	-

Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Chromium

Graphical presentation of results

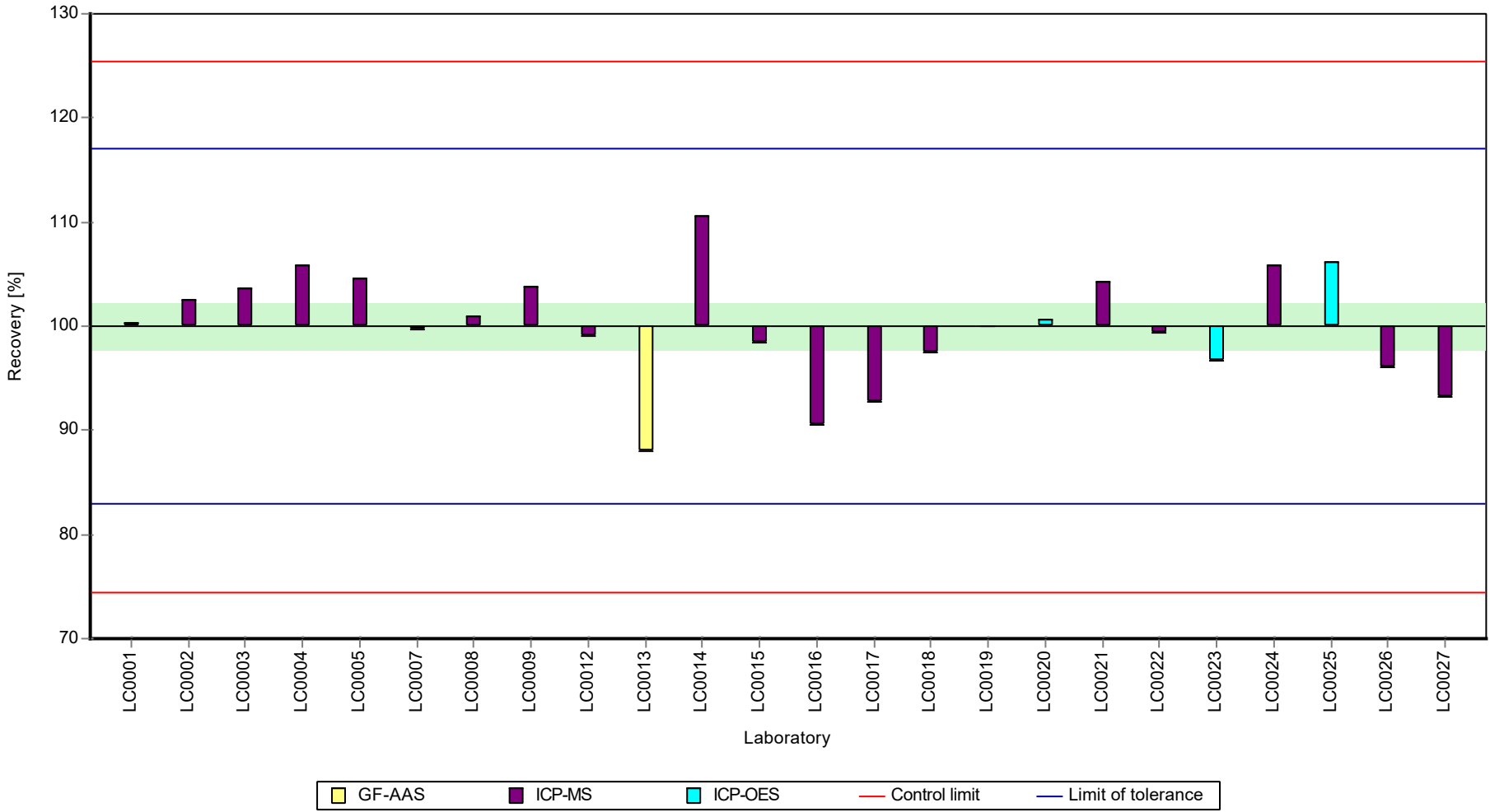
Results



Parameter oriented report Metals and trace elements M175

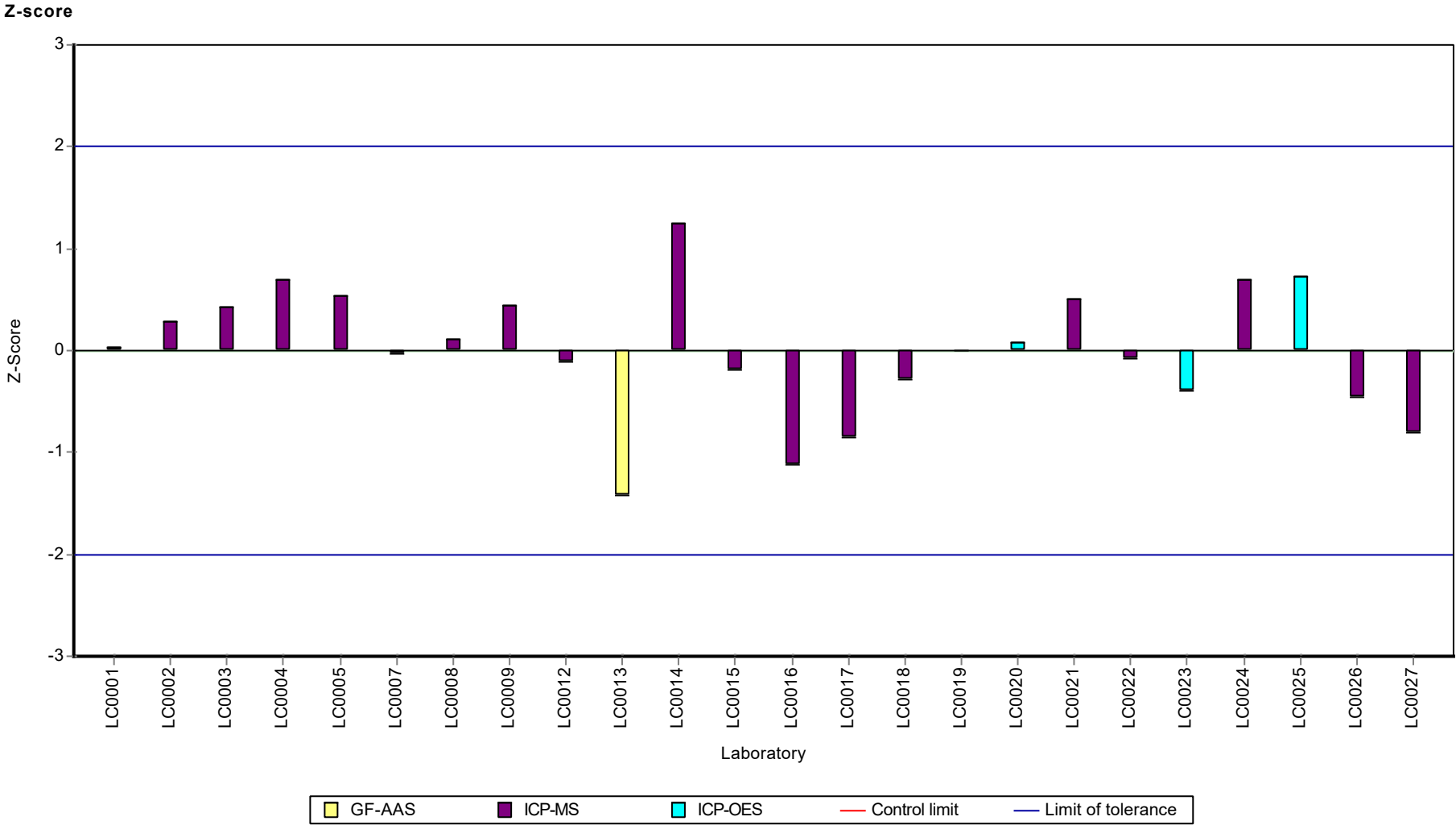
Sample: M175B, Parameter: Chromium

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Chromium



Parameter oriented report Metals and trace elements
M175

Sample: M175A, Parameter: Iron

Parameter oriented report

M175 A

Iron

Unit	µg/l
Assigned value ± U (k=2)	23.6 ± 1.46
Criterion	3.53 (15 %)
Minimum - Maximum	16.8 - 32.9
Control test value ± U (k=2)	21.7 ± 2.6

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	22.7	1.14	96.4	-0.24	
LC0002	21.6	2.2	91.7	-0.55	
LC0003	21.7	4.3	92.1	-0.53	
LC0004	25.5	3.82	108	0.55	
LC0005	22.048	0.96	93.6	-0.43	
LC0006	60	3.88	255	10.31	H
LC0007	25.282	3.24	107	0.49	
LC0008	22.5	1.6	95.5	-0.3	
LC0009	24.41	1.08	104	0.24	
LC0010	19.77	3.1	83.9	-1.07	
LC0011	20.2	3.4	85.8	-0.95	
LC0012	24.3	3.6	103	0.21	
LC0013	42	20	178	5.22	H
LC0014	-	-	-	-	
LC0015	388.1	38.8	1650	103.17	H
LC0016	24.5	2.45	104	0.27	
LC0017	21	0.61	89.1	-0.72	
LC0018	22.2	1.49	94.2	-0.38	
LC0019	32.87	10.19	140	2.64	
LC0020	20.9	0.73	88.7	-0.75	
LC0021	23.4	1.15	99.3	-0.04	
LC0022	22.4	3.37	95.1	-0.33	
LC0023	16.82	2.2892	71.4	-1.91	
LC0024	26.9	0.14	114	0.95	
LC0025	22.8	0.625	96.8	-0.21	
LC0026	30.6	1.53	130	1.99	
LC0027	27.4	2.7	116	1.09	

Characteristics of parameter

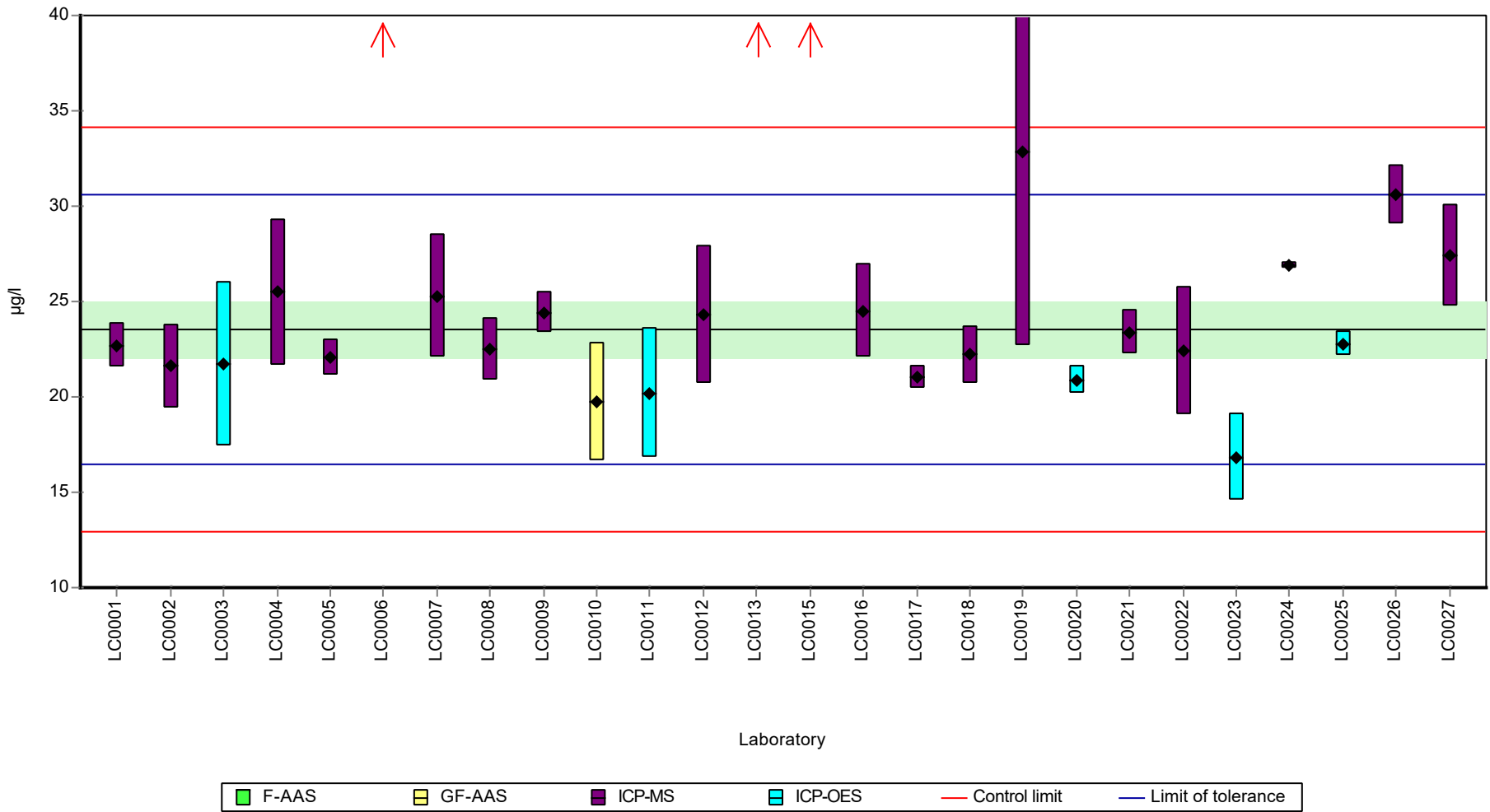
	all results	w without outliers	Unit
Mean ± CI (99%)	39.7 ± 42.1	23.6 ± 2.2	µg/l
Minimum	16.8	16.8	µg/l
Maximum	388	32.9	µg/l
Standard deviation	71.6	3.51	µg/l
rel. standard deviation	180	14.9	%
n	26	23	-

Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Iron

Graphical presentation of results

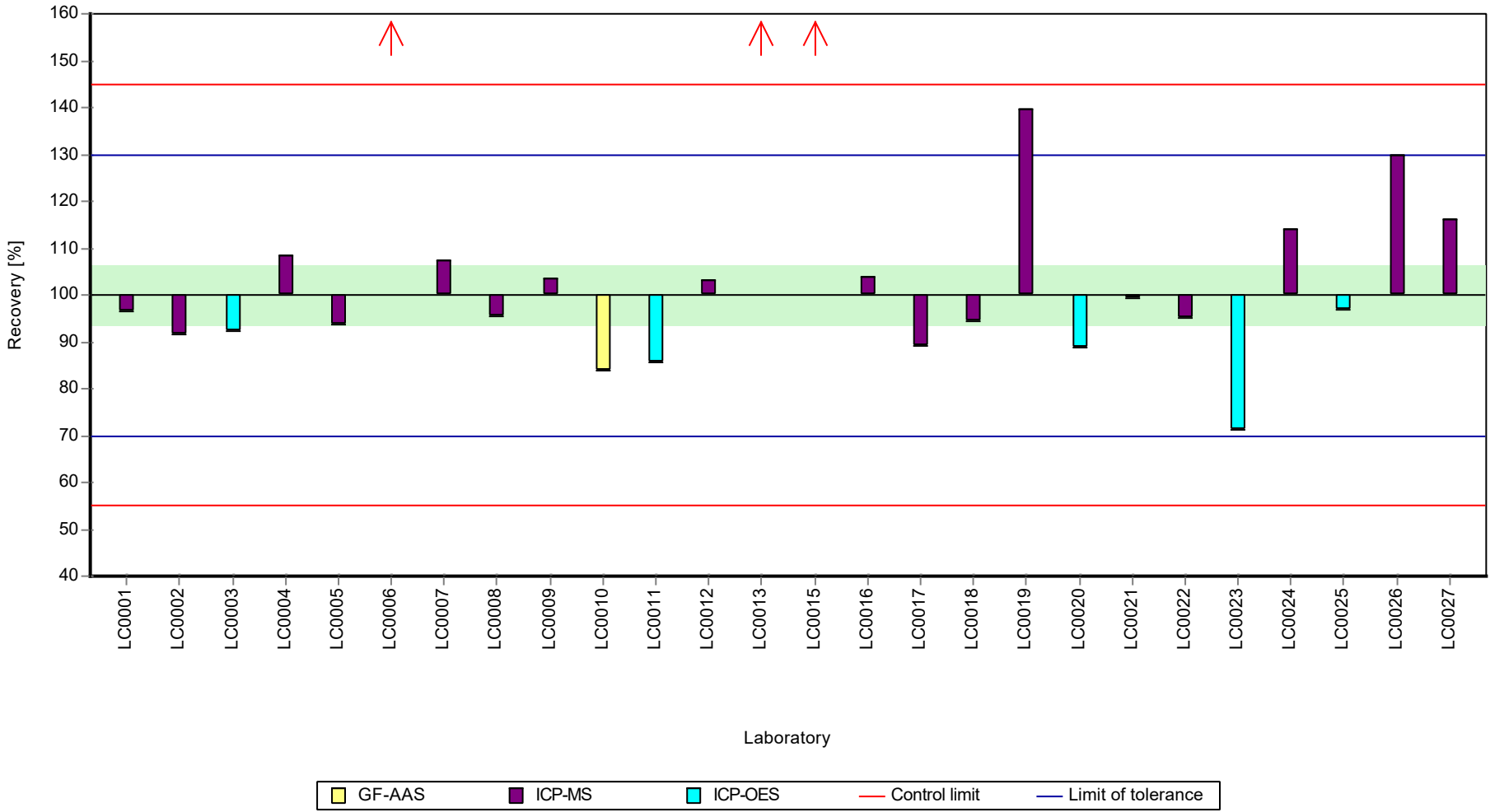
Results



Parameter oriented report Metals and trace elements M175

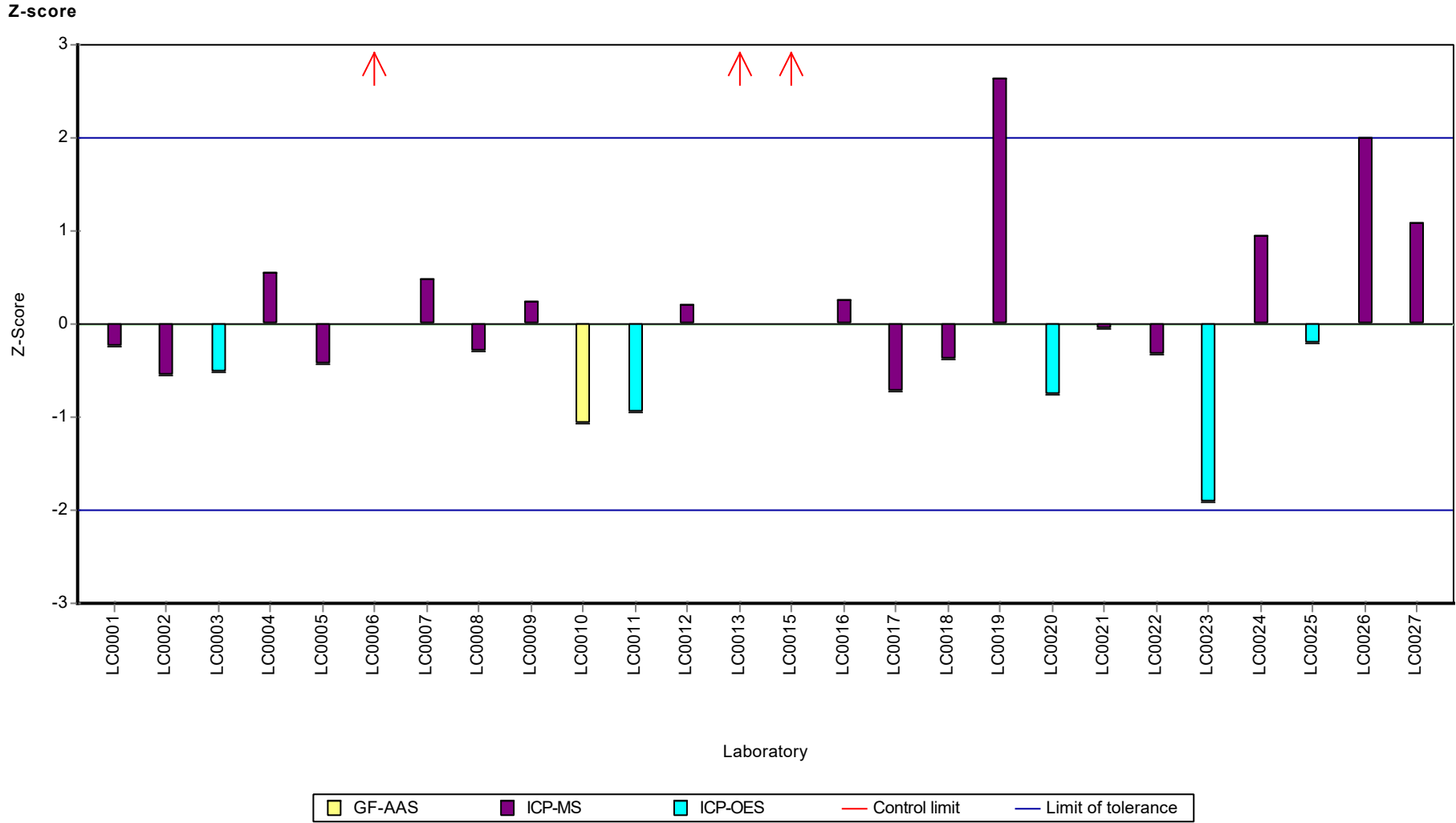
Sample: M175A, Parameter: Iron

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Iron



Parameter oriented report Metals and trace elements
M175

Sample: M175B, Parameter: Iron

Parameter oriented report

M175 B

Iron

Unit	µg/l
Assigned value ± U (k=2)	72.2 ± 1.46
Criterion	7.94 (11 %)
Minimum - Maximum	65.3 - 80.3
Control test value ± U (k=2)	66.9 ± 8.03

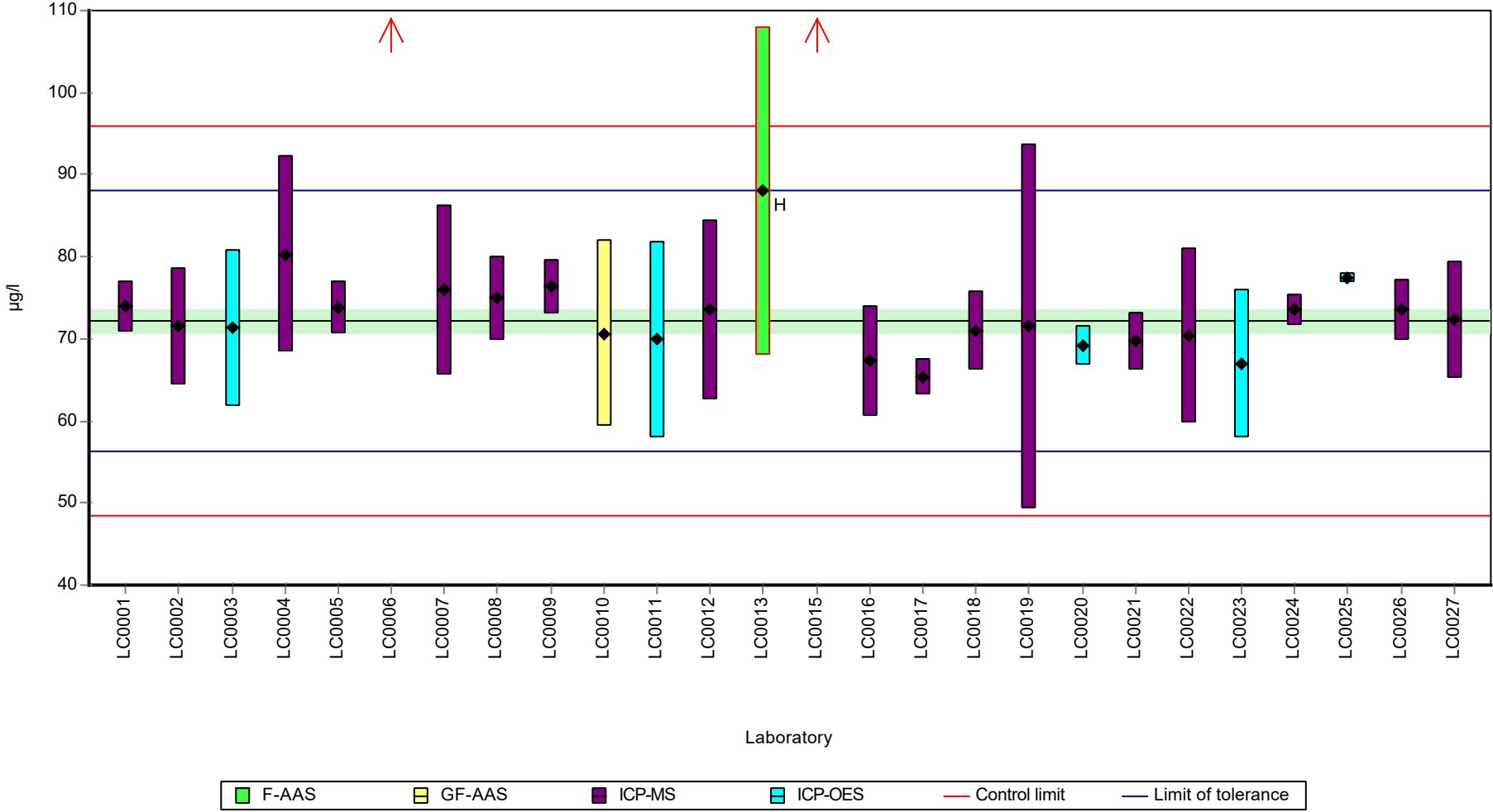
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	73.9	3.21	102	0.22	
LC0002	71.5	7.2	99.1	-0.09	
LC0003	71.3	9.5	98.8	-0.11	
LC0004	80.3	12	111	1.02	
LC0005	73.861	3.22	102	0.21	
LC0006	116	7.5	161	5.52	H
LC0007	75.93	10.3	105	0.47	
LC0008	74.9	5.2	104	0.34	
LC0009	76.32	3.38	106	0.52	
LC0010	70.67	11.3	97.9	-0.19	
LC0011	69.9	11.9	96.8	-0.29	
LC0012	73.5	11	102	0.17	
LC0013	88	20	122	1.99	H
LC0014	-	-	-	-	
LC0015	181.3	18.1	251	13.74	H
LC0016	67.3	6.73	93.2	-0.61	
LC0017	65.3	2.18	90.5	-0.87	
LC0018	71	4.76	98.4	-0.15	
LC0019	71.51	22.17	99.1	-0.08	
LC0020	69.2	2.4	95.9	-0.38	
LC0021	69.67	3.42	96.5	-0.32	
LC0022	70.4	10.6	97.5	-0.22	
LC0023	66.95	9.1119	92.8	-0.66	
LC0024	73.5	1.9	102	0.17	
LC0025	77.4	0.596	107	0.66	
LC0026	73.5	3.68	102	0.17	
LC0027	72.3	7.2	100	0.02	

Characteristics of parameter

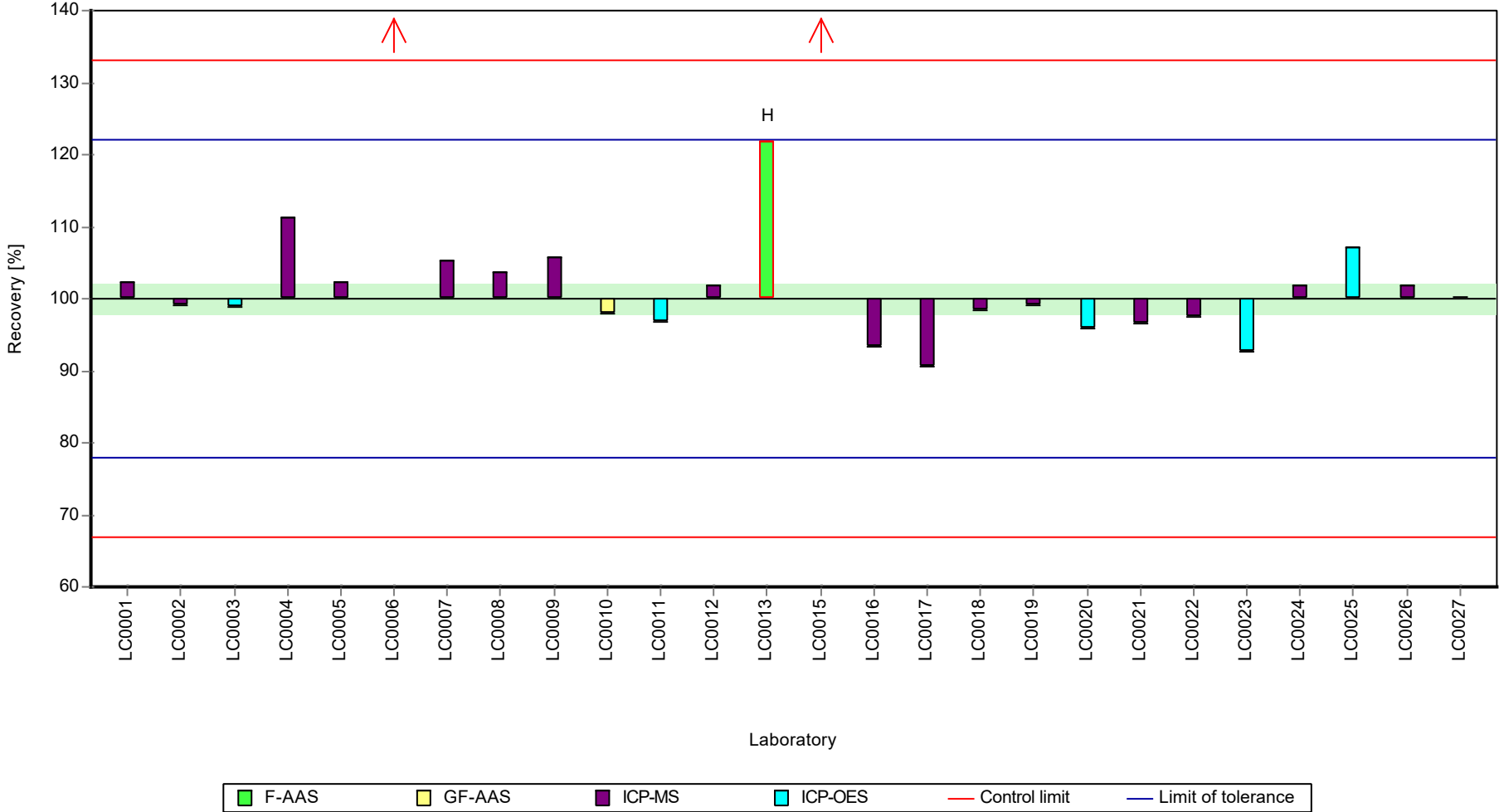
	all results	w without outliers	Unit
Mean ± CI (99%)	78.7 ± 13.5	72.2 ± 2.19	µg/l
Minimum	65.3	65.3	µg/l
Maximum	181	80.3	µg/l
Standard deviation	23	3.5	µg/l
rel. standard deviation	29.3	4.86	%
n	26	23	-

Graphical presentation of results

Results

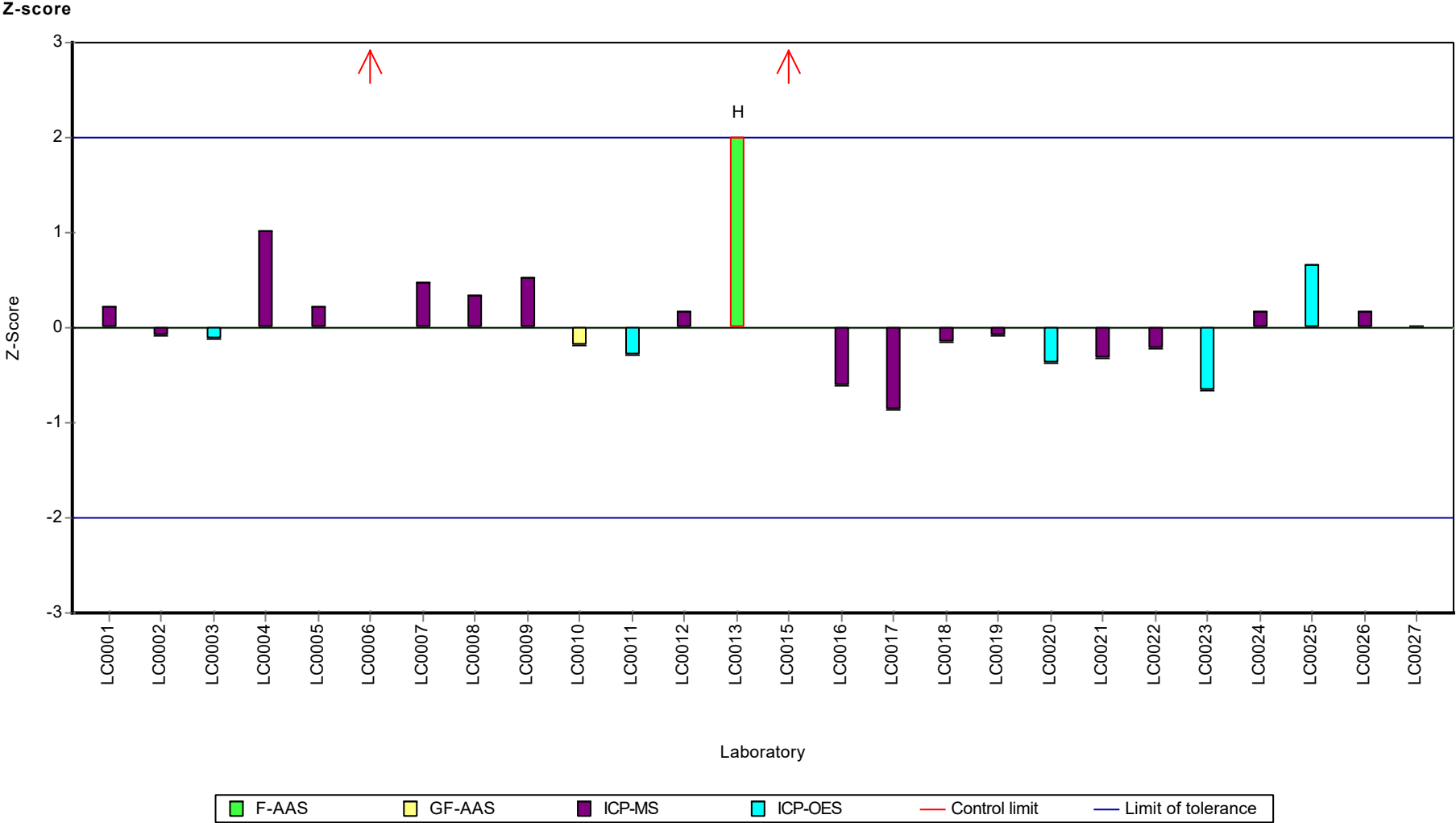


Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Iron



Parameter oriented report Metals and trace elements
M175

Sample: M175A, Parameter: Copper

Parameter oriented report

M175 A

Copper

Unit	µg/l
Assigned value ± U (k=2)	8.84 ± 0.148
Criterion	0.796 (9 %)
Minimum - Maximum	7.87 - 9.41
Control test value ± U (k=2)	8.58 ± 1.46

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	9.41	0.4	106	0.71	
LC0002	8.77	0.88	99.2	-0.09	
LC0003	9.08	2.9	103	0.3	
LC0004	8.66	1.3	97.9	-0.23	
LC0005	9.335	0.53	106	0.62	
LC0006	-	-	-	-	
LC0007	9.015	0.94	102	0.22	
LC0008	8.66	0.61	97.9	-0.23	
LC0009	9.137	0.436	103	0.37	
LC0010	8.97	1.6	101	0.16	
LC0011	-	-	-	-	
LC0012	8.6	1	97.3	-0.31	
LC0013	9	1.5	102	0.2	
LC0014	8.946	1.091	101	0.13	
LC0015	9.01	0.9	102	0.21	
LC0016	8.8	0.88	99.5	-0.05	
LC0017	8.23	0.28	93.1	-0.77	
LC0018	8.6	0.34	97.3	-0.31	
LC0019	8.366	1.518	94.6	-0.6	
LC0020	8.9	0.51	101	0.07	
LC0021	9.15	0.52	103	0.39	
LC0022	8.9	1.33	101	0.07	
LC0023	10.13	1.50633	115	1.62	H
LC0024	9.4	0.085	106	0.7	
LC0025	8.79	0.0456	99.4	-0.07	
LC0026	8.63	0.518	97.6	-0.27	
LC0027	7.87	0.79	89	-1.22	

Characteristics of parameter

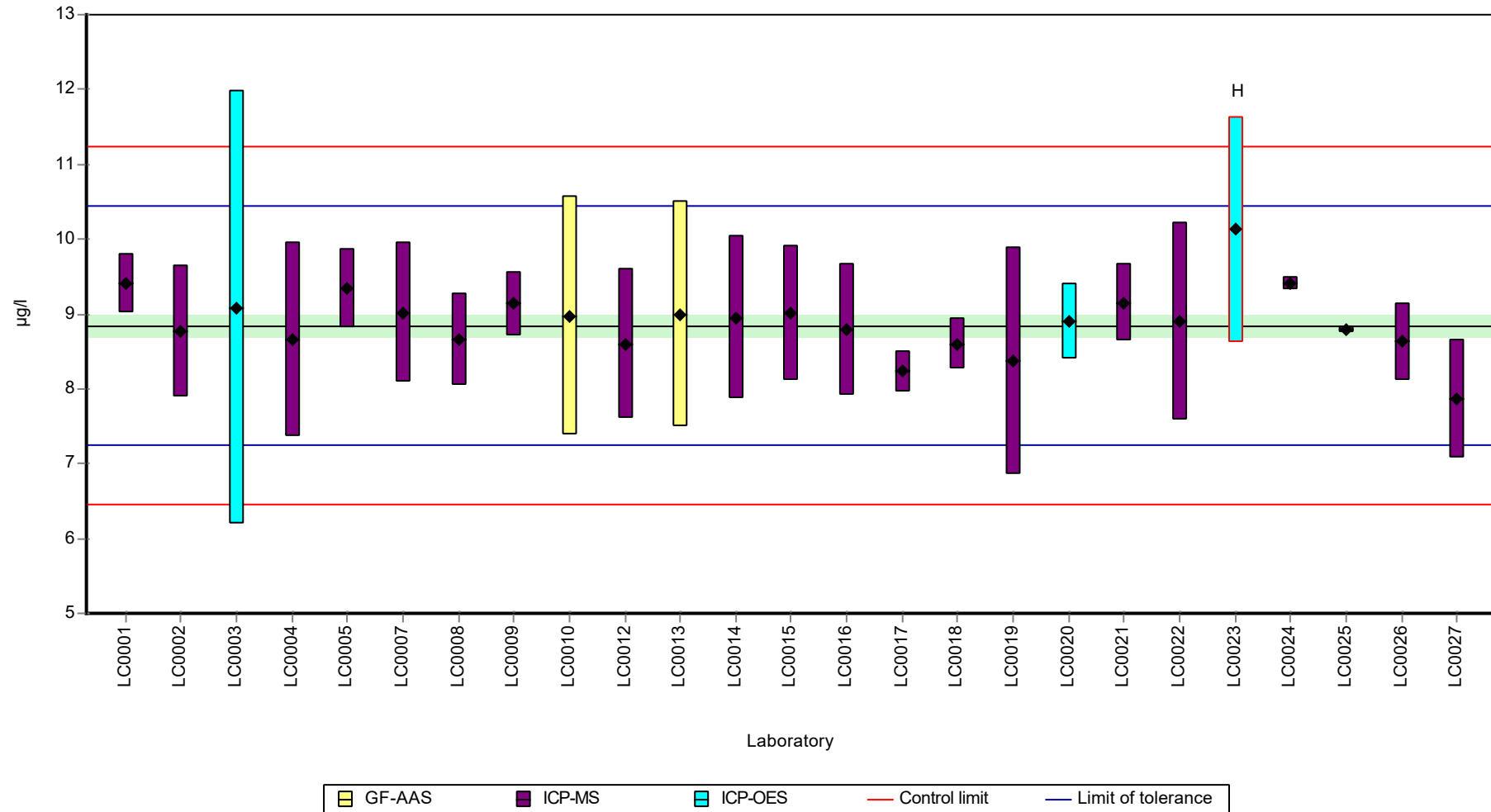
	all results	w without outliers	Unit
Mean ± CI (99%)	8.89 ± 0.263	8.84 ± 0.222	µg/l
Minimum	7.87	7.87	µg/l
Maximum	10.1	9.41	µg/l
Standard deviation	0.438	0.362	µg/l
rel. standard deviation	4.93	4.1	%
n	25	24	-

Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Copper

Graphical presentation of results

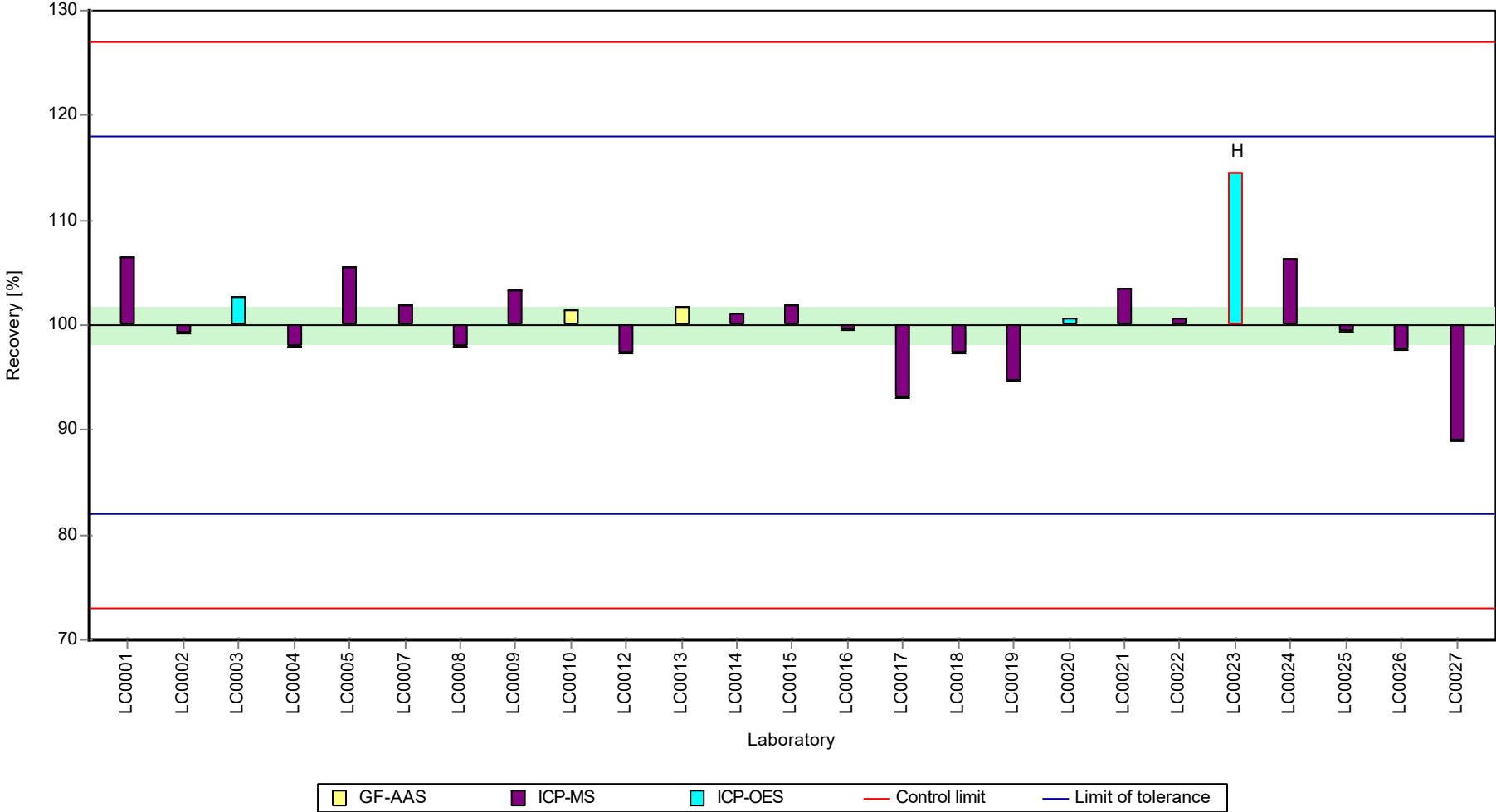
Results



Parameter oriented report Metals and trace elements M175

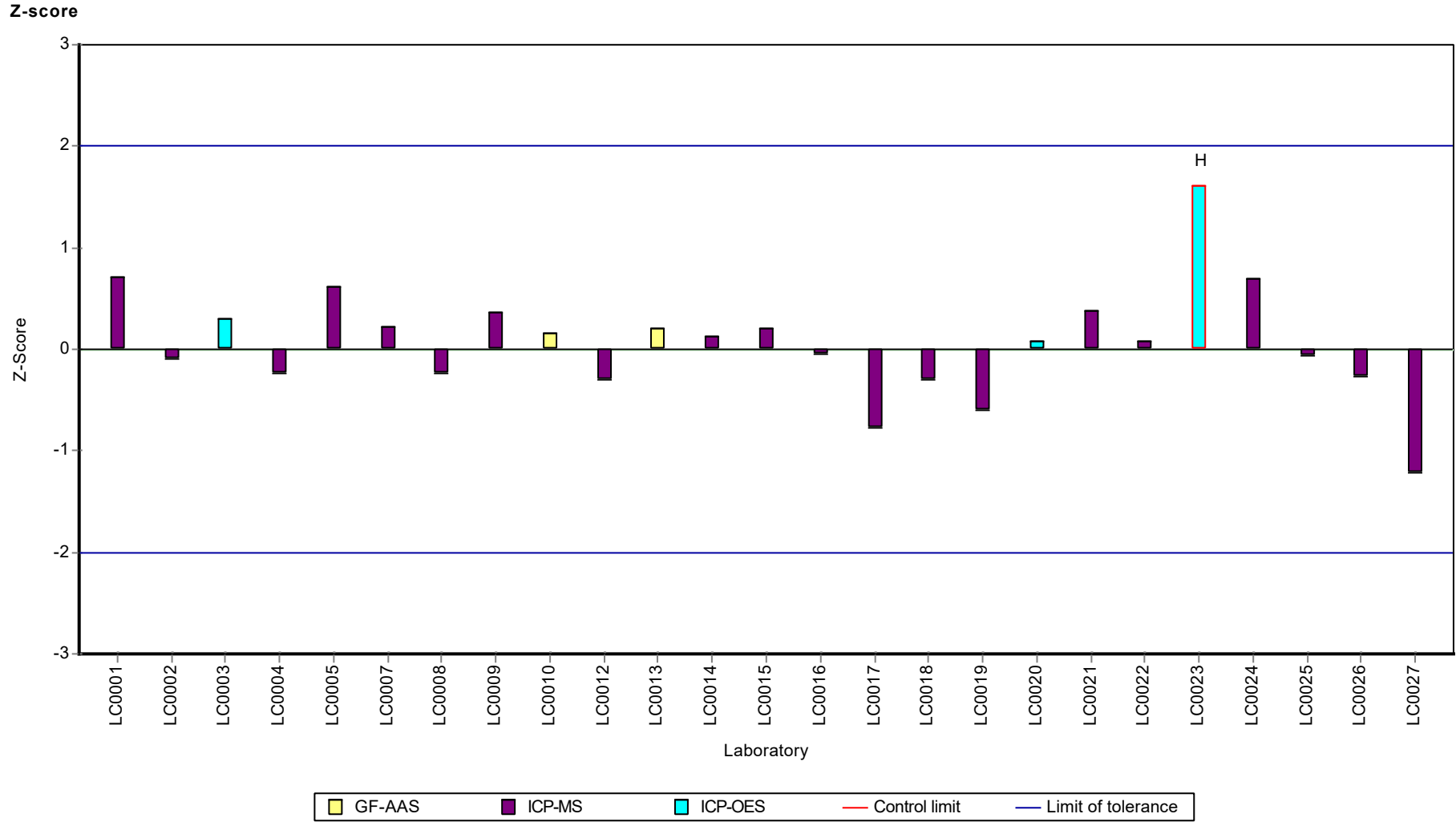
Sample: M175A, Parameter: Copper

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Copper



Parameter oriented report Metals and trace elements
M175

Sample: M175B, Parameter: Copper

Parameter oriented report

M175 B

Copper

Unit	µg/l
Assigned value ± U (k=2)	41.7 ± 0.556
Criterion	3.75 (9 %)
Minimum - Maximum	39 - 44.5
Control test value ± U (k=2)	39.7 ± 6.76

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	43	2.5	103	0.35	
LC0002	42.1	4.2	101	0.11	
LC0003	42.7	6.5	102	0.27	
LC0004	41.5	6.23	99.6	-0.05	
LC0005	44.45	2.52	107	0.74	
LC0006	-	-	-	-	
LC0007	42.87	4.47	103	0.32	
LC0008	40.3	2.8	96.7	-0.37	
LC0009	43.21	2.06	104	0.41	
LC0010	4.45	0.75	10.7	-9.92	H
LC0011	-	-	-	-	
LC0012	40.3	4.8	96.7	-0.37	
LC0013	41	6	98.4	-0.18	
LC0014	42.108	5.137	101	0.12	
LC0015	41.6	4.2	99.8	-0.02	
LC0016	40.7	4.07	97.7	-0.26	
LC0017	39	1.18	93.6	-0.71	
LC0018	40.5	1.42	97.2	-0.31	
LC0019	40.09	7.272	96.2	-0.42	
LC0020	43.1	2.5	103	0.38	
LC0021	43.32	2.46	104	0.44	
LC0022	41.9	6.29	101	0.06	
LC0023	41.65	6.19335	99.9	-0.01	
LC0024	43	0.4	103	0.35	
LC0025	41.4	0.291	99.3	-0.07	
LC0026	40.8	2.45	97.9	-0.23	
LC0027	39.6	4	95	-0.55	

Characteristics of parameter

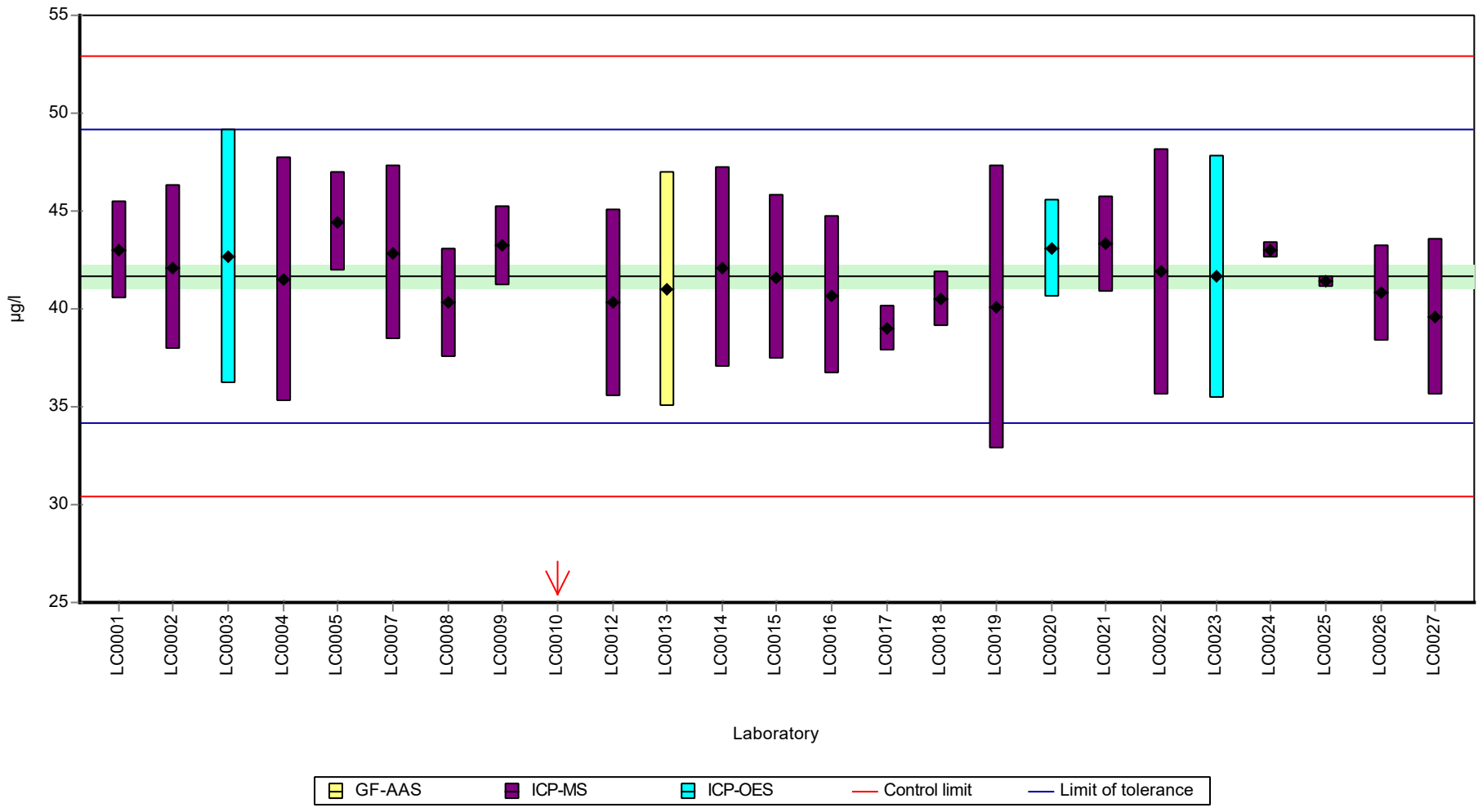
	all results	w without outliers	Unit
Mean ± CI (99%)	40.2 ± 4.54	41.7 ± 0.834	µg/l
Minimum	4.45	39	µg/l
Maximum	44.5	44.5	µg/l
Standard deviation	7.56	1.36	µg/l
rel. standard deviation	18.8	3.27	%
n	25	24	-

Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Copper

Graphical presentation of results

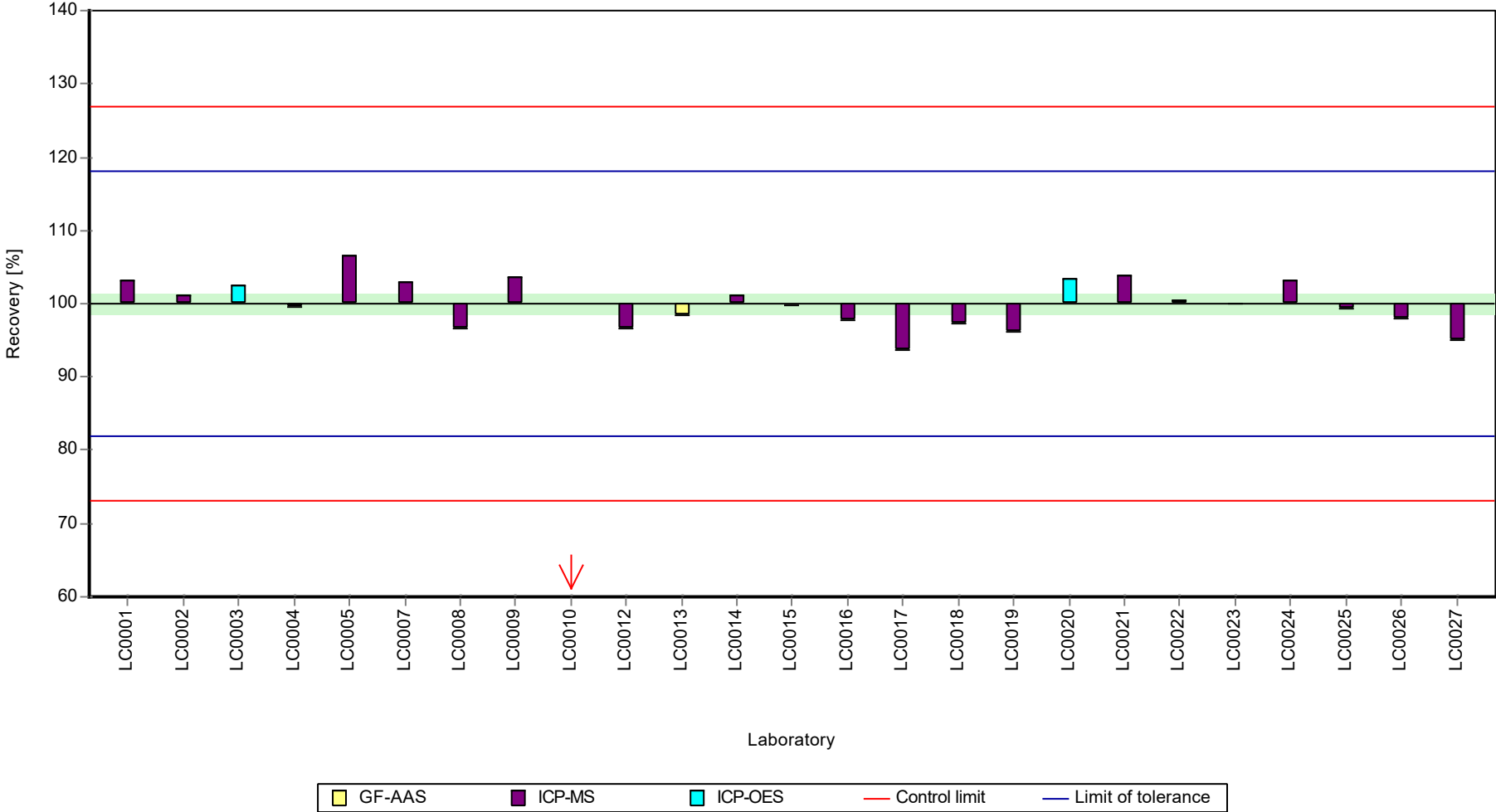
Results



Parameter oriented report Metals and trace elements M175

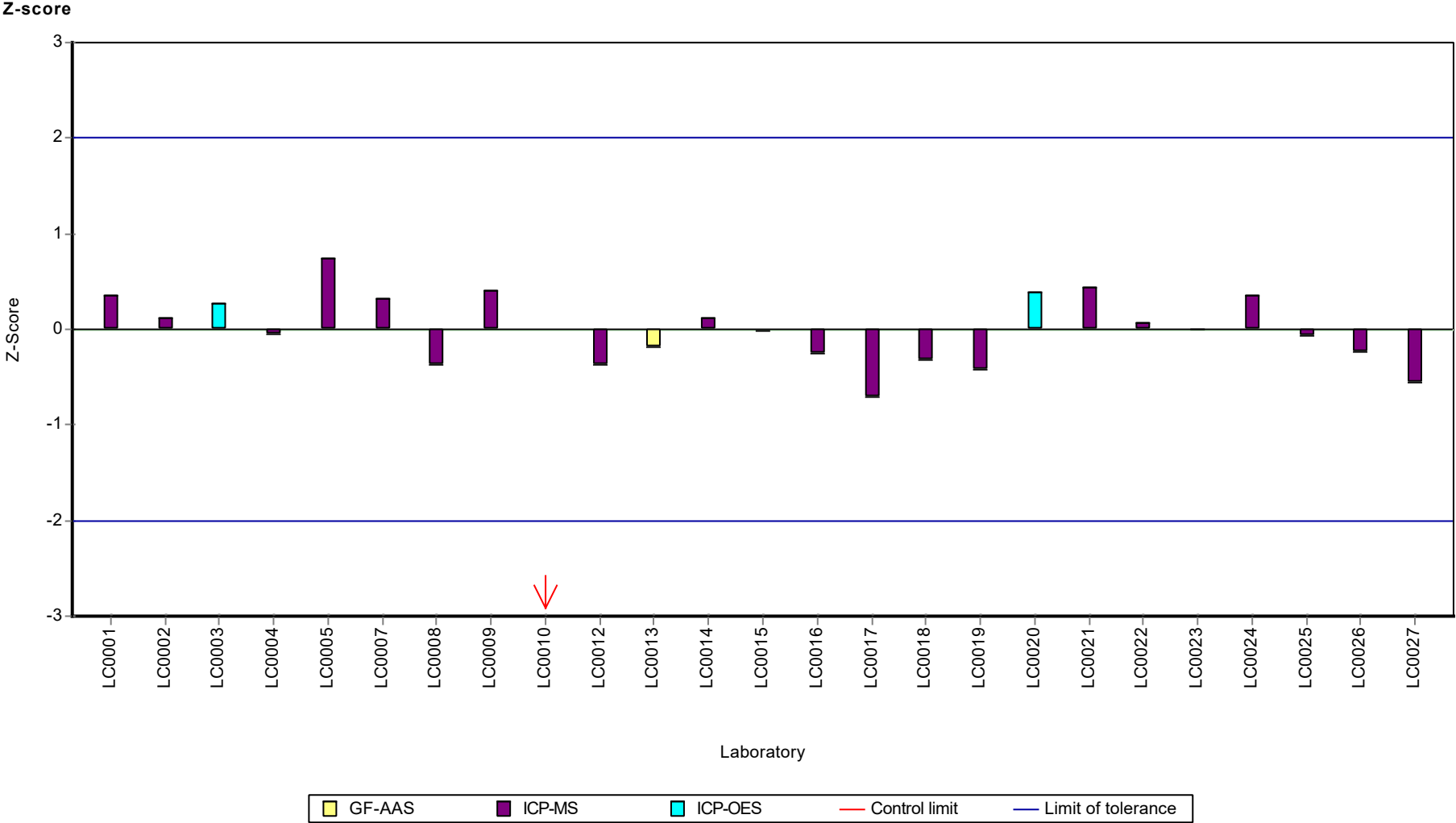
Sample: M175B, Parameter: Copper

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Copper



Parameter oriented report Metals and trace elements
M175

Sample: M175A, Parameter: Manganese

Parameter oriented report

M175 A

Manganese

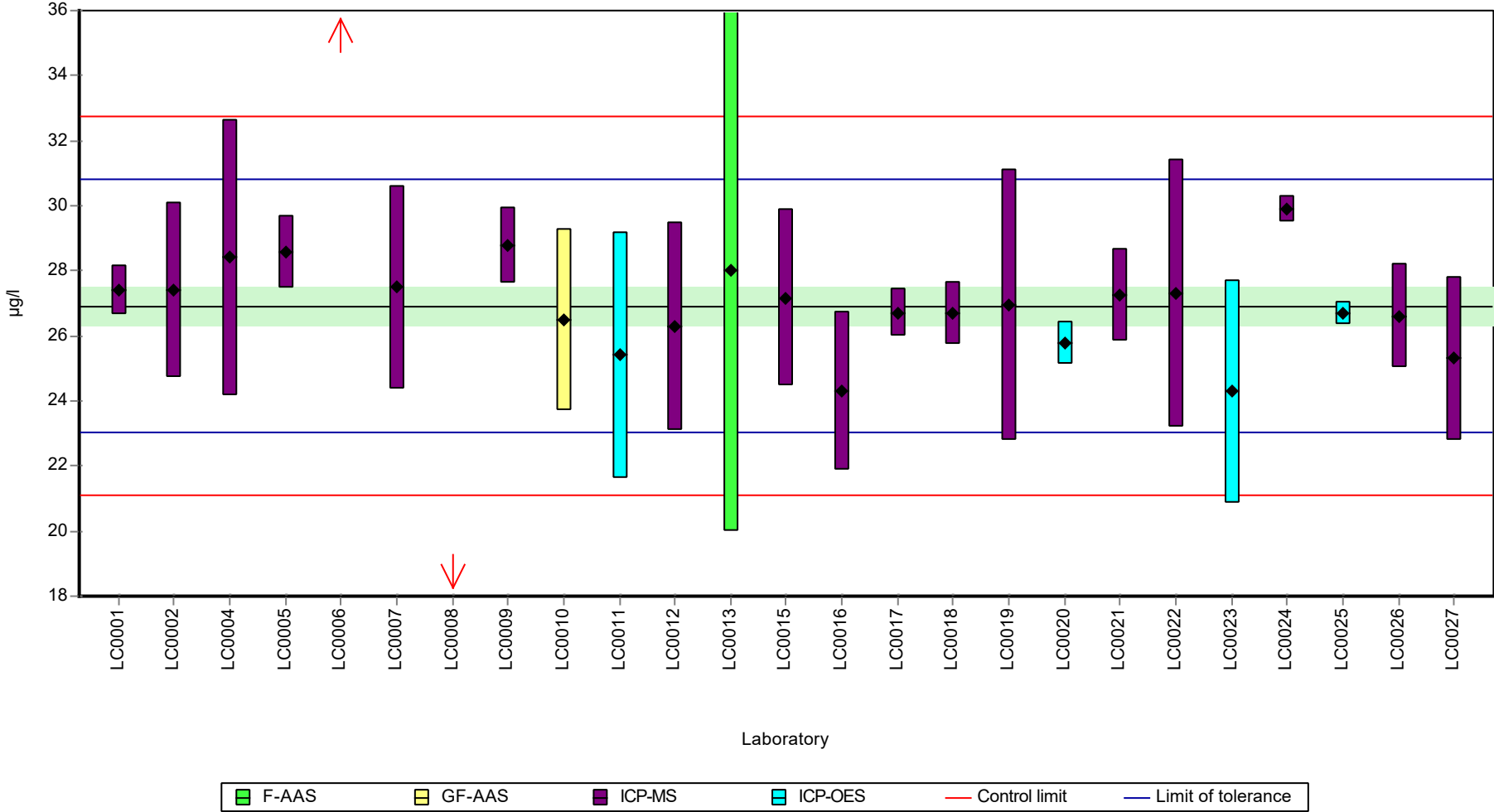
Unit	µg/l
Assigned value ± U (k=2)	26.9 ± 0.565
Criterion	1.94 (7.2 %)
Minimum - Maximum	24.3 - 29.9
Control test value ± U (k=2)	26.8 ± 2.41

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	27.4	0.75	102	0.25	
LC0002	27.4	2.7	102	0.25	
LC0003	-	-	-	-	
LC0004	28.4	4.26	105	0.76	
LC0005	28.573	1.14	106	0.85	
LC0006	38	2.76	141	5.72	H
LC0007	27.484	3.11	102	0.29	
LC0008	1.8	0.13	6.7	-12.96	H
LC0009	28.79	1.17	107	0.96	
LC0010	26.5	2.8	98.4	-0.22	
LC0011	25.4	3.8	94.3	-0.78	
LC0012	26.3	3.2	97.7	-0.32	
LC0013	28	8	104	0.56	
LC0014	-	-	-	-	
LC0015	27.16	2.72	101	0.12	
LC0016	24.3	2.43	90.3	-1.35	
LC0017	26.7	0.74	99.2	-0.11	
LC0018	26.7	0.96	99.2	-0.11	
LC0019	26.95	4.15	100	0.01	
LC0020	25.8	0.66	95.8	-0.58	
LC0021	27.25	1.44	101	0.17	
LC0022	27.3	4.1	101	0.2	
LC0023	24.28	3.43805	90.2	-1.36	
LC0024	29.9	0.42	111	1.54	
LC0025	26.7	0.352	99.2	-0.11	
LC0026	26.6	1.6	98.8	-0.17	
LC0027	25.3	2.5	94	-0.84	

Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	26.4 ± 3.43	26.9 ± 0.848	µg/l
Minimum	1.8	24.3	µg/l
Maximum	38	29.9	µg/l
Standard deviation	5.72	1.35	µg/l
rel. standard deviation	21.7	5.03	%
n	25	23	-

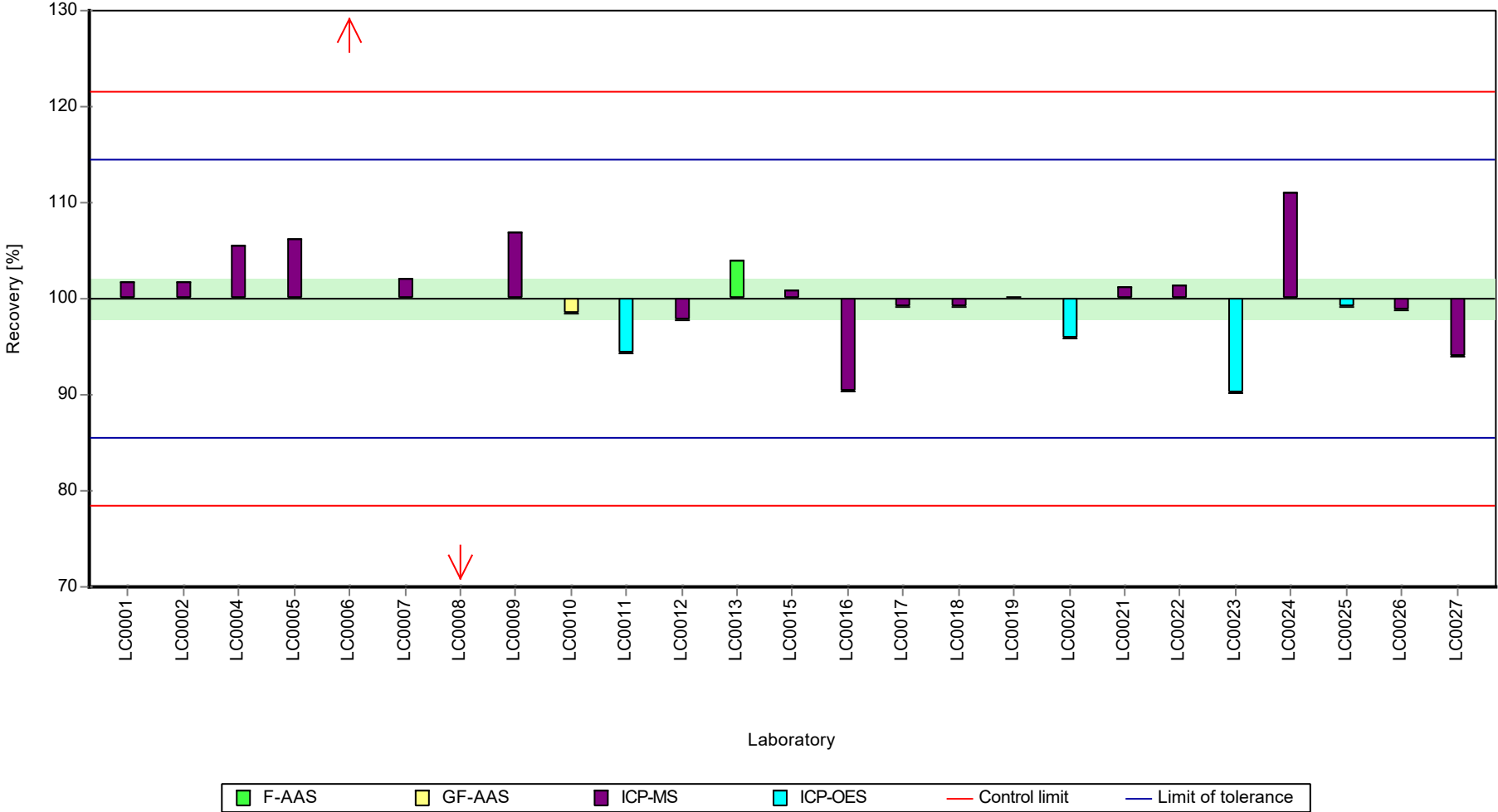
Graphical presentation of results
 Results



Parameter oriented report Metals and trace elements M175

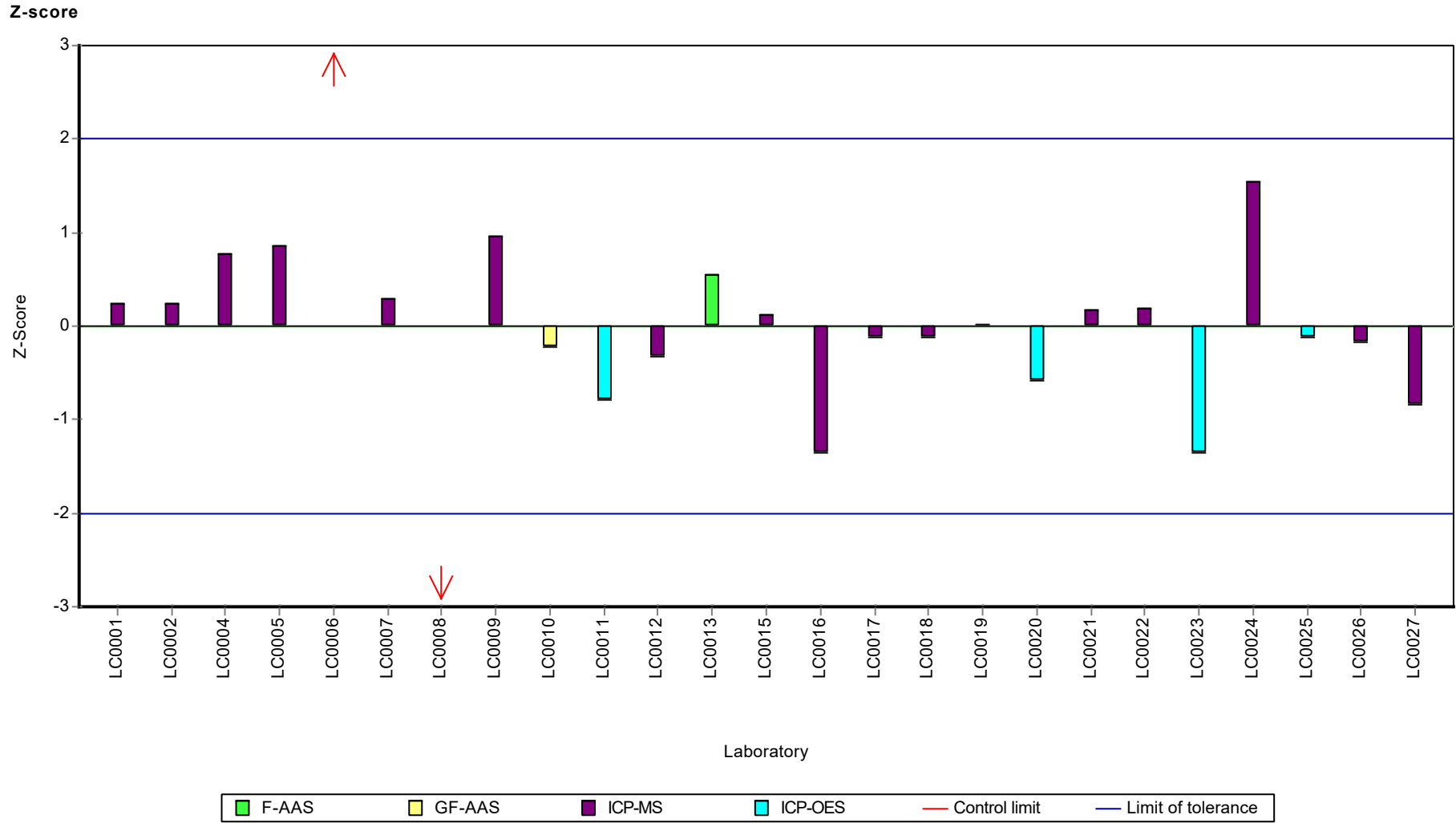
Sample: M175A, Parameter: Manganese

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Manganese



Parameter oriented report Metals and trace elements
M175

Sample: M175B, Parameter: Manganese

Parameter oriented report

M175 B

Manganese

Unit	µg/l
Assigned value ± U (k=2)	59.9 ± 0.938
Criterion	4.31 (7.2 %)
Minimum - Maximum	54.1 - 64
Control test value ± U (k=2)	58.1 ± 5.23

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	60.2	1.33	100	0.06	
LC0002	61	6.1	102	0.25	
LC0003	-	-	-	-	
LC0004	62.5	9.38	104	0.6	
LC0005	62.216	2.49	104	0.53	
LC0006	77	5.62	128	3.96	H
LC0007	60.11	6.79	100	0.04	
LC0008	17.2	1.2	28.7	-9.9	H
LC0009	62.04	2.51	104	0.49	
LC0010	61.5	6.5	103	0.37	
LC0011	58.1	8.7	97	-0.42	
LC0012	58.5	7	97.6	-0.33	
LC0013	62	15	103	0.48	
LC0014	-	-	-	-	
LC0015	59.46	5.9	99.2	-0.11	
LC0016	54.1	5.41	90.3	-1.35	
LC0017	59.1	2.26	98.6	-0.19	
LC0018	59.1	2.13	98.6	-0.19	
LC0019	59.14	9.108	98.7	-0.18	
LC0020	59.5	1.5	99.3	-0.1	
LC0021	58.15	3.06	97	-0.41	
LC0022	60.3	9.04	101	0.09	
LC0023	56.5	8.0004	94.3	-0.79	
LC0024	64	0.55	107	0.95	
LC0025	63	0.329	105	0.71	
LC0026	59.8	3.59	99.8	-0.03	
LC0027	57.9	5.8	96.6	-0.47	

Characteristics of parameter

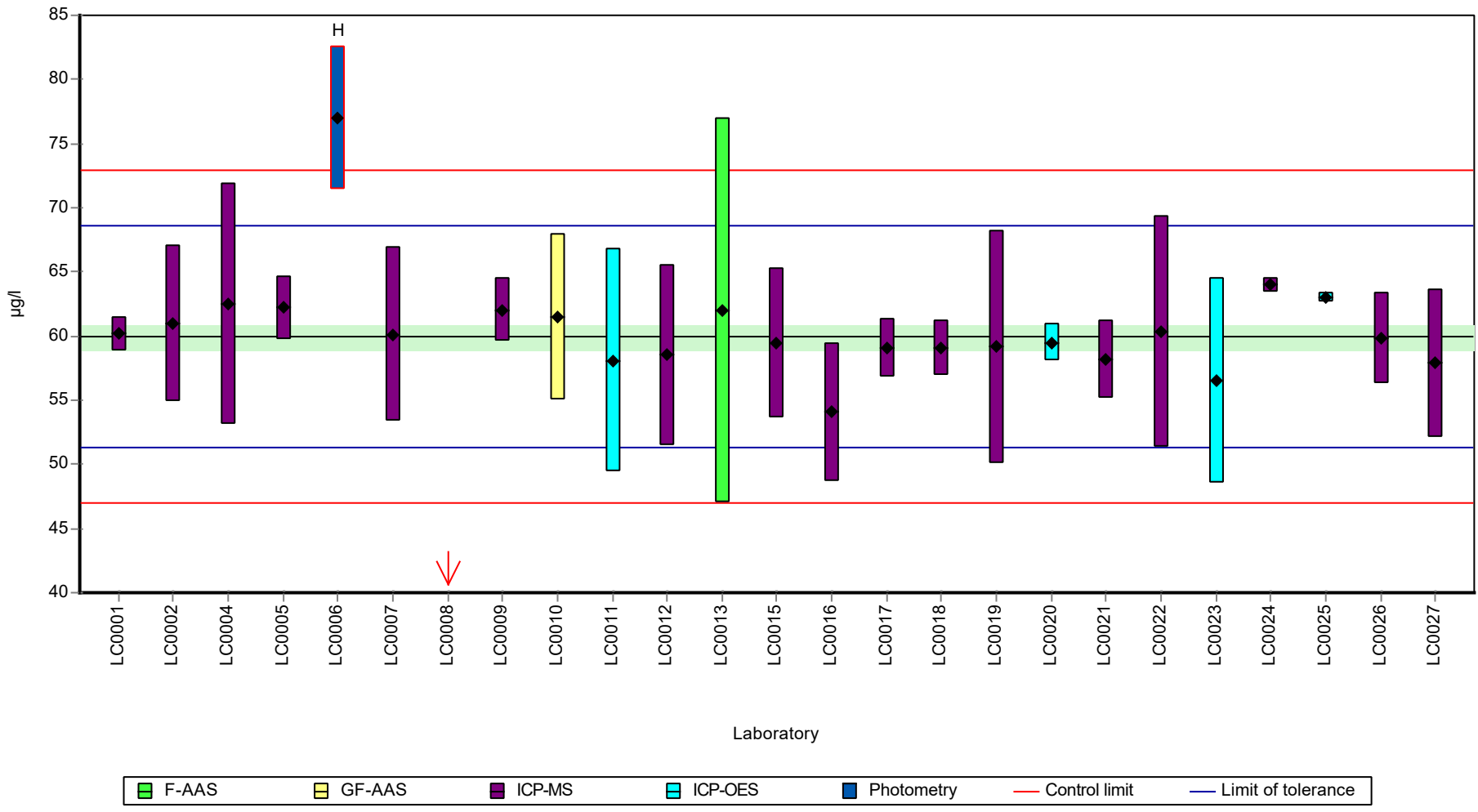
	all results	w without outliers	Unit
Mean ± CI (99%)	58.9 ± 5.75	59.9 ± 1.41	µg/l
Minimum	17.2	54.1	µg/l
Maximum	77	64	µg/l
Standard deviation	9.58	2.25	µg/l
rel. standard deviation	16.3	3.75	%
n	25	23	-

Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Manganese

Graphical presentation of results

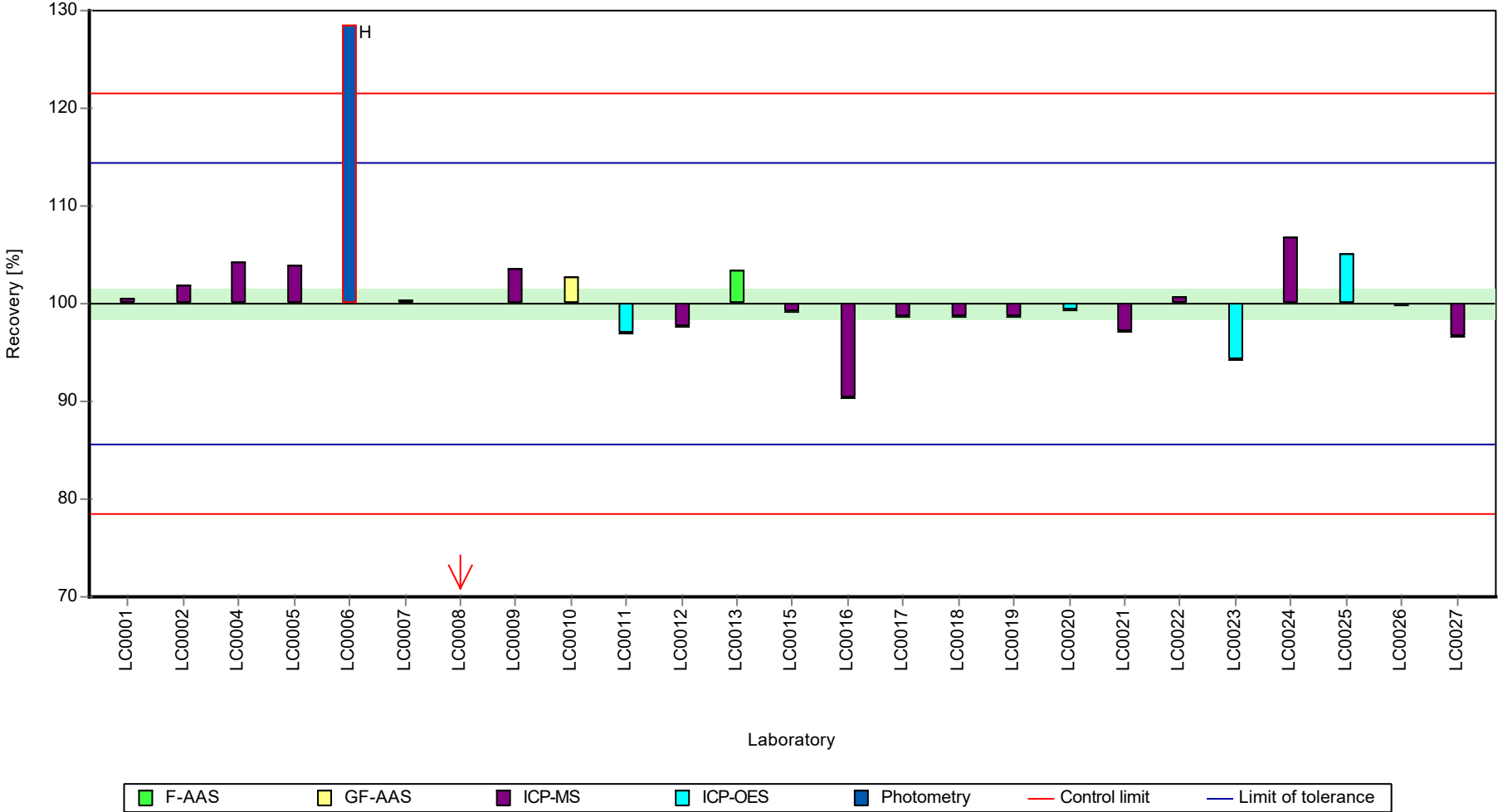
Results



Parameter oriented report Metals and trace elements M175

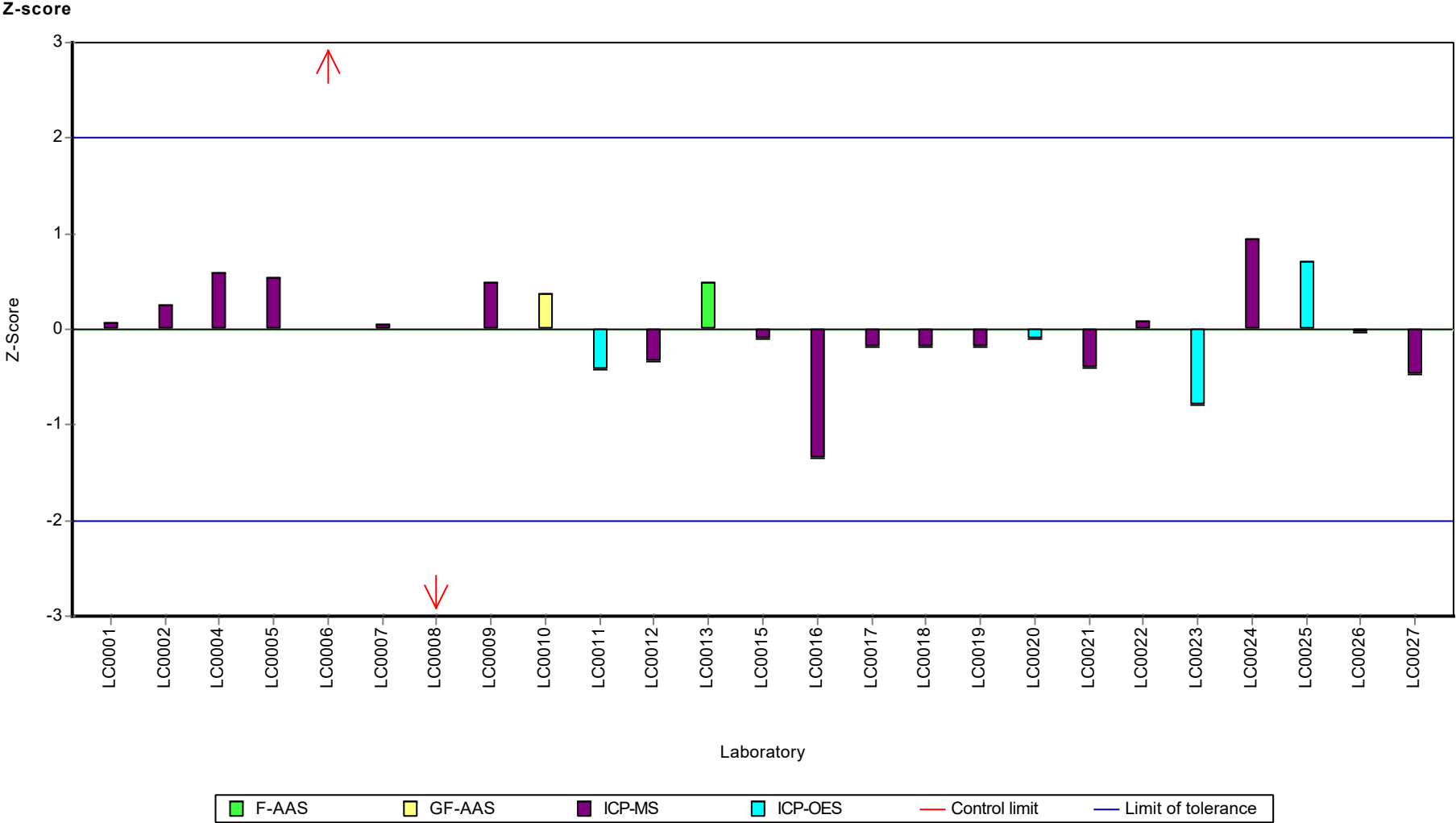
Sample: M175B, Parameter: Manganese

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Manganese



Parameter oriented report Metals and trace elements
M175

Sample: M175A, Parameter: Nickel

Parameter oriented report

M175 A

Nickel

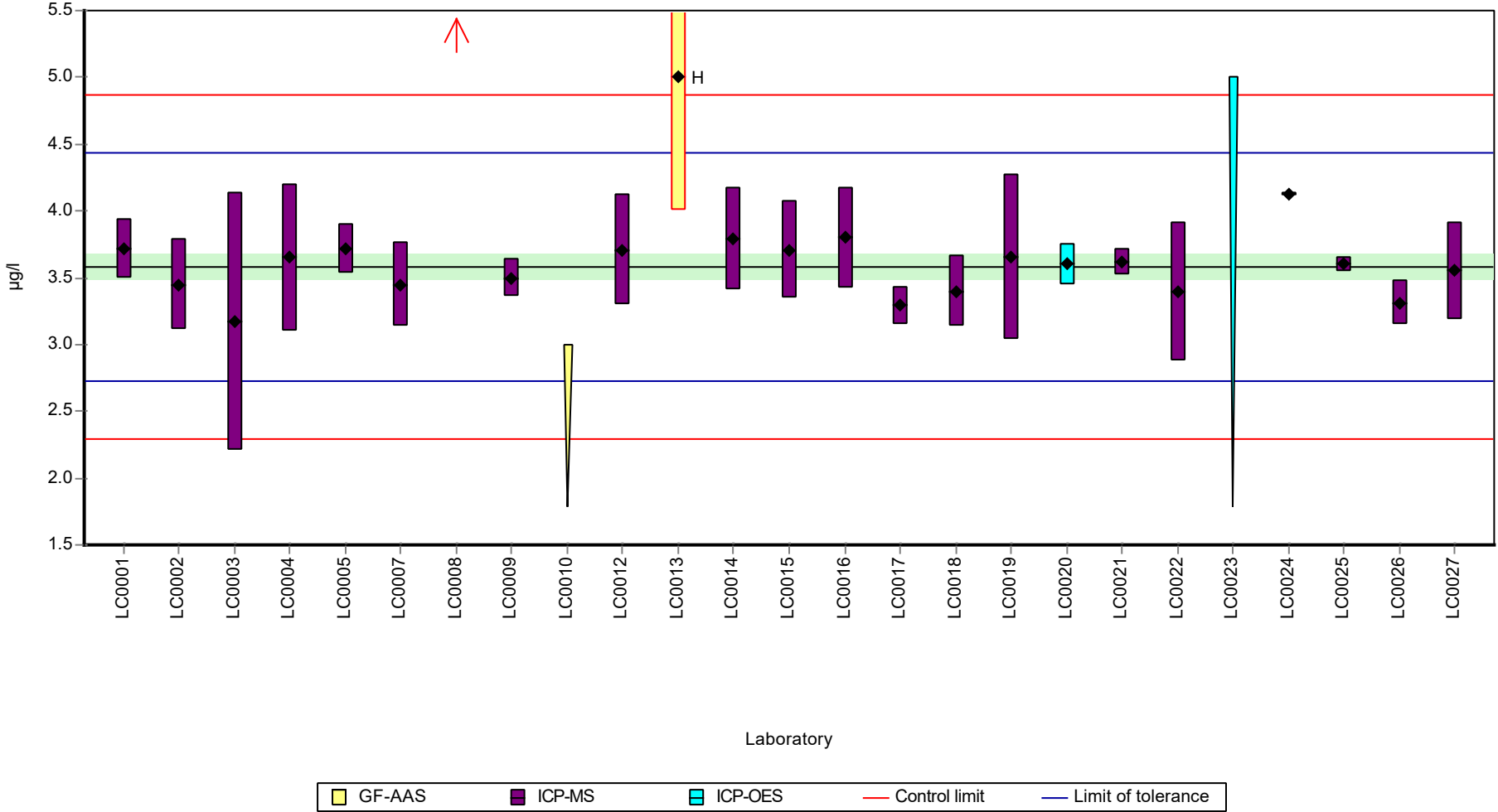
Unit	µg/l
Assigned value ± U (k=2)	3.58 ± 0.0927
Criterion	0.43 (12 %)
Minimum - Maximum	3.17 - 4.12
Control test value ± U (k=2)	3.45 ± 0.38

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	3.72	0.22	104	0.32	
LC0002	3.45	0.34	96.3	-0.31	
LC0003	3.17	0.97	88.5	-0.96	
LC0004	3.65	0.55	102	0.16	
LC0005	3.717	0.19	104	0.32	
LC0006	-	-	-	-	
LC0007	3.449	0.32	96.3	-0.31	
LC0008	27	1.9	754	54.49	H
LC0009	3.499	0.143	97.7	-0.19	
LC0010	< 3 (LOQ)	-	-	-	
LC0011	-	-	-	-	
LC0012	3.71	0.41	104	0.3	
LC0013	5	1	140	3.3	H
LC0014	3.795	0.383	106	0.5	
LC0015	3.71	0.37	104	0.3	
LC0016	3.8	0.38	106	0.51	
LC0017	3.29	0.14	91.9	-0.68	
LC0018	3.4	0.27	94.9	-0.42	
LC0019	3.653	0.62	102	0.17	
LC0020	3.6	0.15	101	0.04	
LC0021	3.62	0.1	101	0.09	
LC0022	3.4	0.52	94.9	-0.42	
LC0023	< 5 (LOQ)	-	-	-	
LC0024	4.12	0.012	115	1.25	
LC0025	3.6	0.0557	101	0.04	
LC0026	3.31	0.166	92.4	-0.63	
LC0027	3.55	0.36	99.1	-0.07	

Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	4.66 ± 3.05	3.58 ± 0.139	µg/l
Minimum	3.17	3.17	µg/l
Maximum	27	4.12	µg/l
Standard deviation	4.88	0.212	µg/l
rel. standard deviation	105	5.93	%
n	23	21	-

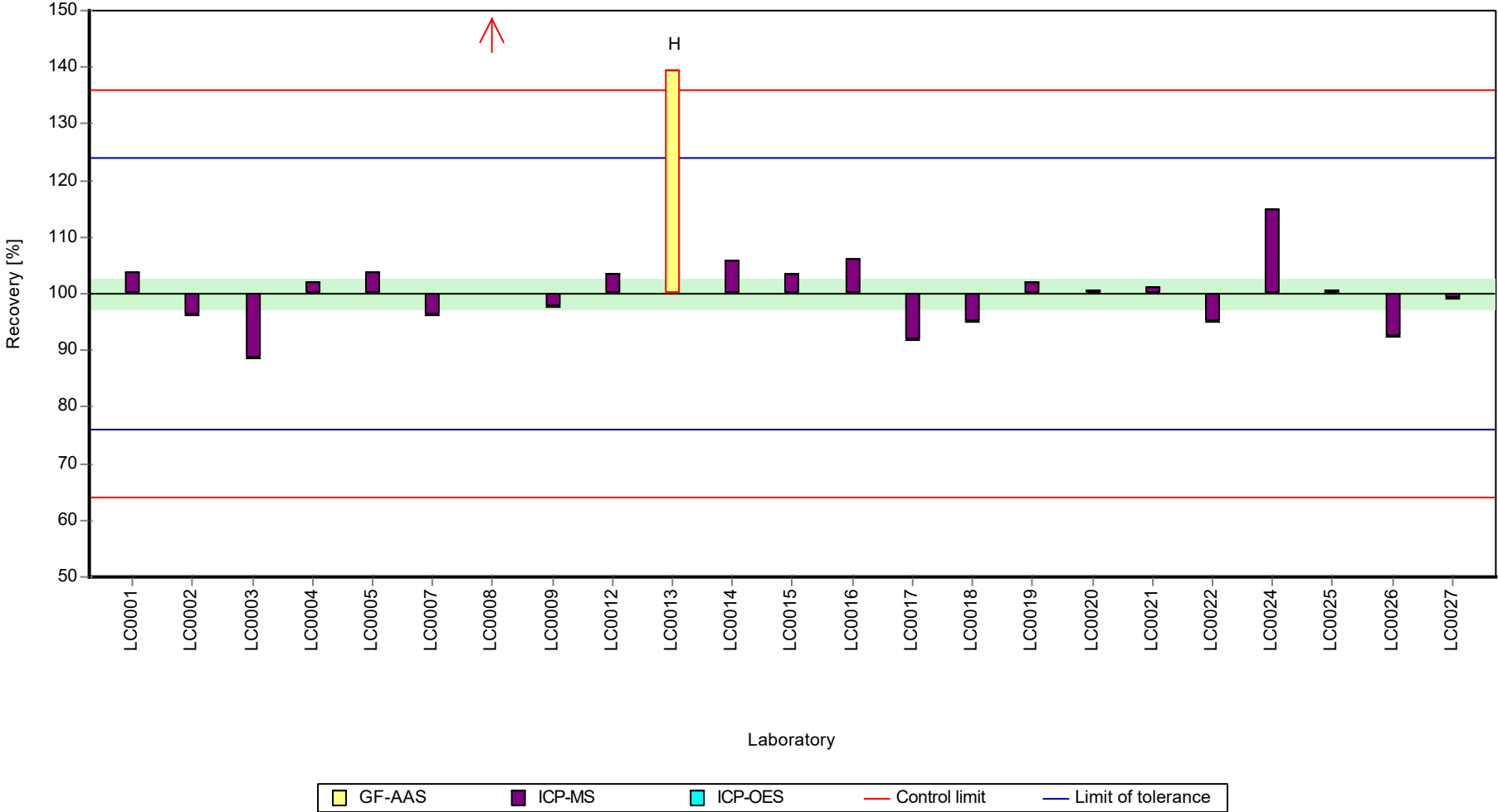
Graphical presentation of results
 Results



Parameter oriented report Metals and trace elements M175

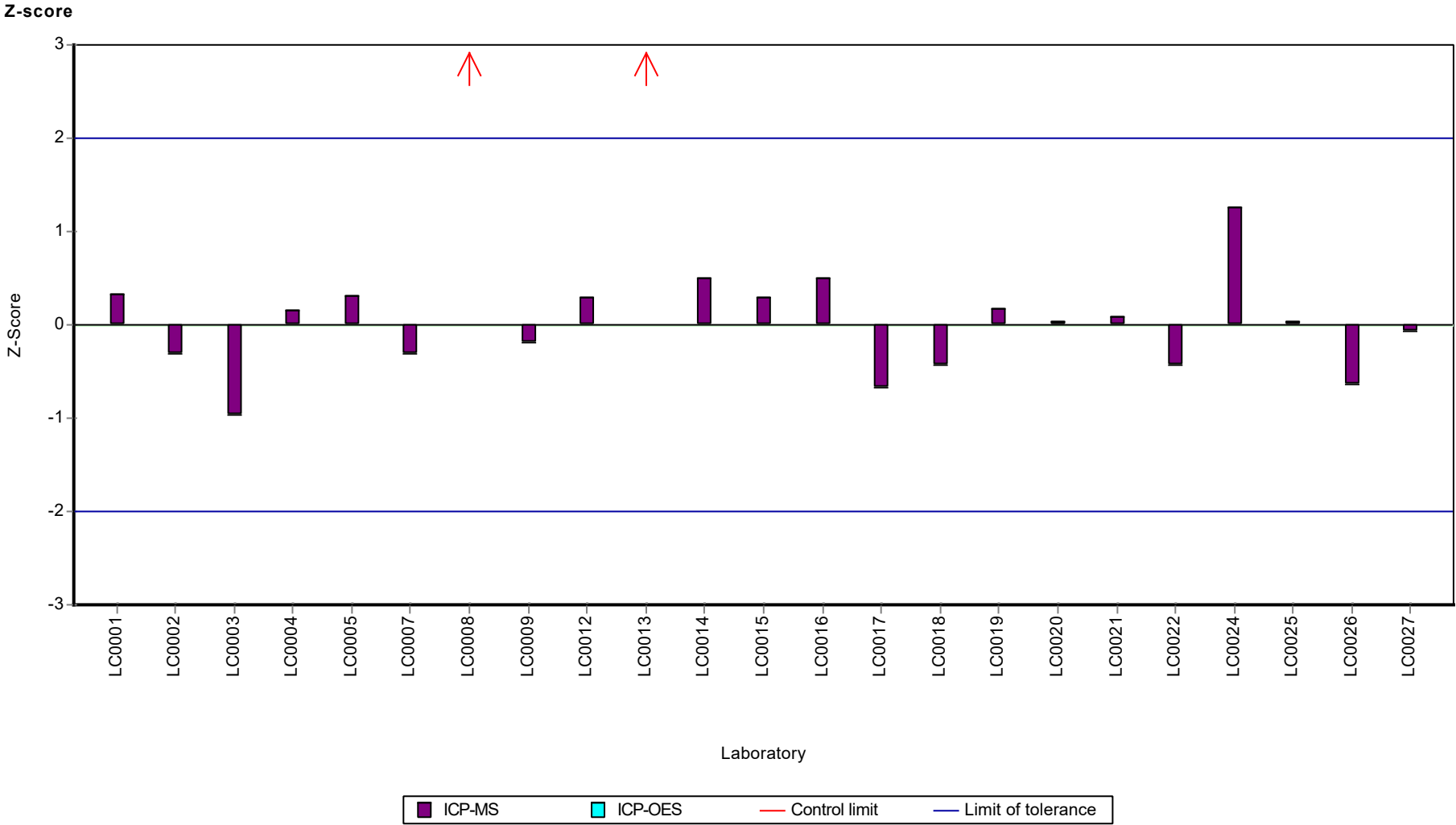
Sample: M175A, Parameter: Nickel

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Nickel



Parameter oriented report Metals and trace elements
M175

Sample: M175B, Parameter: Nickel

Parameter oriented report

M175 B

Nickel

Unit	µg/l
Assigned value ± U (k=2)	14 ± 0.308
Criterion	1.68 (12 %)
Minimum - Maximum	12.3 - 15.2
Control test value ± U (k=2)	13.1 ± 1.44

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	14.7	0.5	105	0.4	
LC0002	14.1	1.4	100	0.04	
LC0003	13.3	2.9	94.8	-0.43	
LC0004	14.7	2.2	105	0.4	
LC0005	14.852	0.75	106	0.49	
LC0006	-	-	-	-	
LC0007	14.74	1.36	105	0.42	
LC0008	59.9	4.2	427	27.24	H
LC0009	14.11	0.578	101	0.05	
LC0010	12.33	2.2	87.9	-1.01	
LC0011	-	-	-	-	
LC0012	14.1	1.6	100	0.04	
LC0013	14	2	99.8	-0.02	
LC0014	15.075	1.523	107	0.62	
LC0015	14.01	1.4	99.8	-0.01	
LC0016	14	1.4	99.8	-0.02	
LC0017	12.8	0.53	91.2	-0.73	
LC0018	14.1	1.1	100	0.04	
LC0019	14.35	2.435	102	0.19	
LC0020	13.7	0.56	97.6	-0.2	
LC0021	14.53	0.41	104	0.3	
LC0022	14.2	2.12	101	0.1	
LC0023	13.85	2.68275	98.7	-0.11	
LC0024	15.2	0.21	108	0.69	
LC0025	14	0.378	99.8	-0.02	
LC0026	13.7	0.685	97.6	-0.2	
LC0027	12.3	1.2	87.7	-1.03	

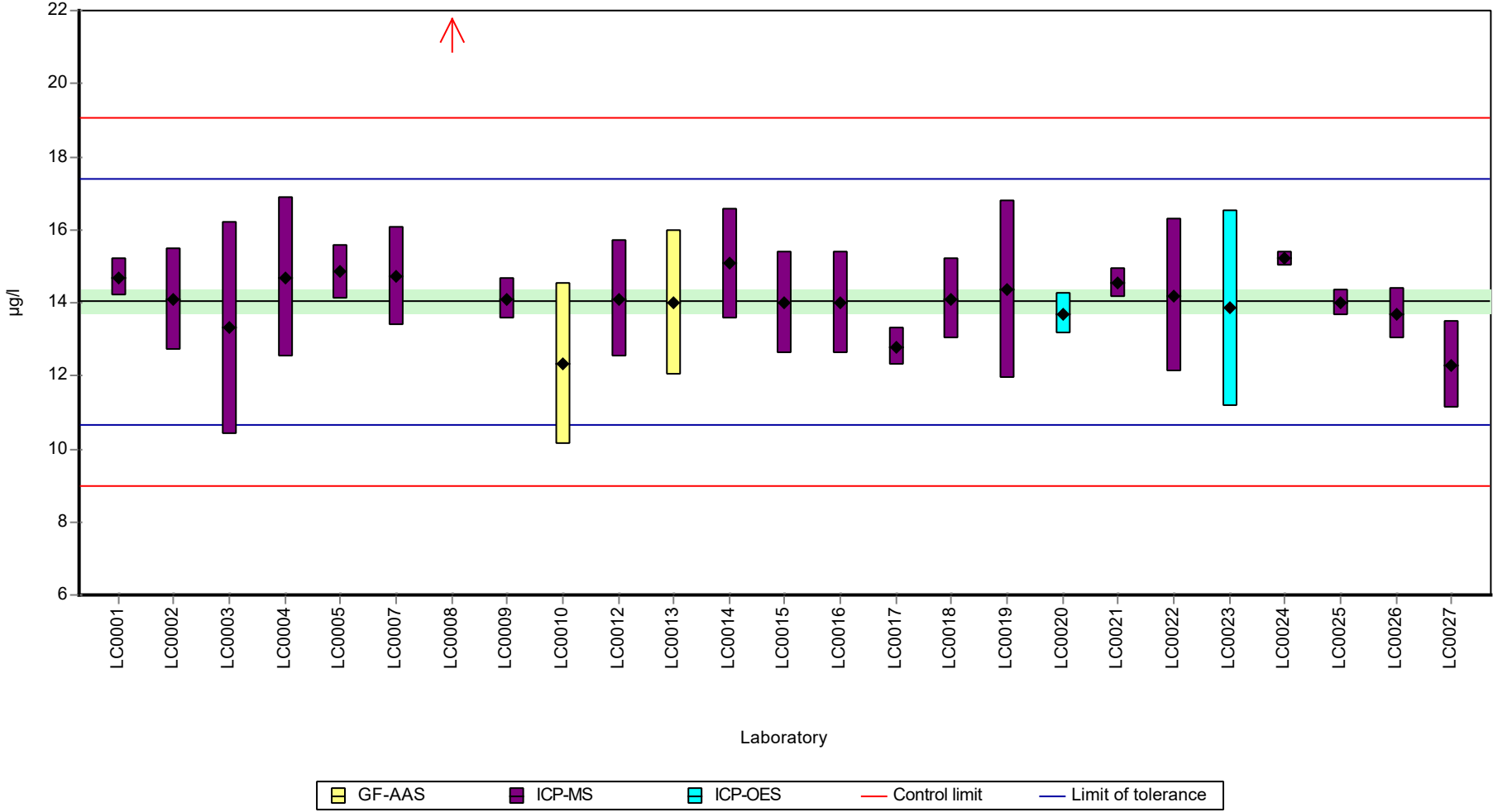
Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	15.9 ± 5.52	14 ± 0.463	µg/l
Minimum	12.3	12.3	µg/l
Maximum	59.9	15.2	µg/l
Standard deviation	9.2	0.755	µg/l
rel. standard deviation	58	5.38	%
n	25	24	-

Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Nickel

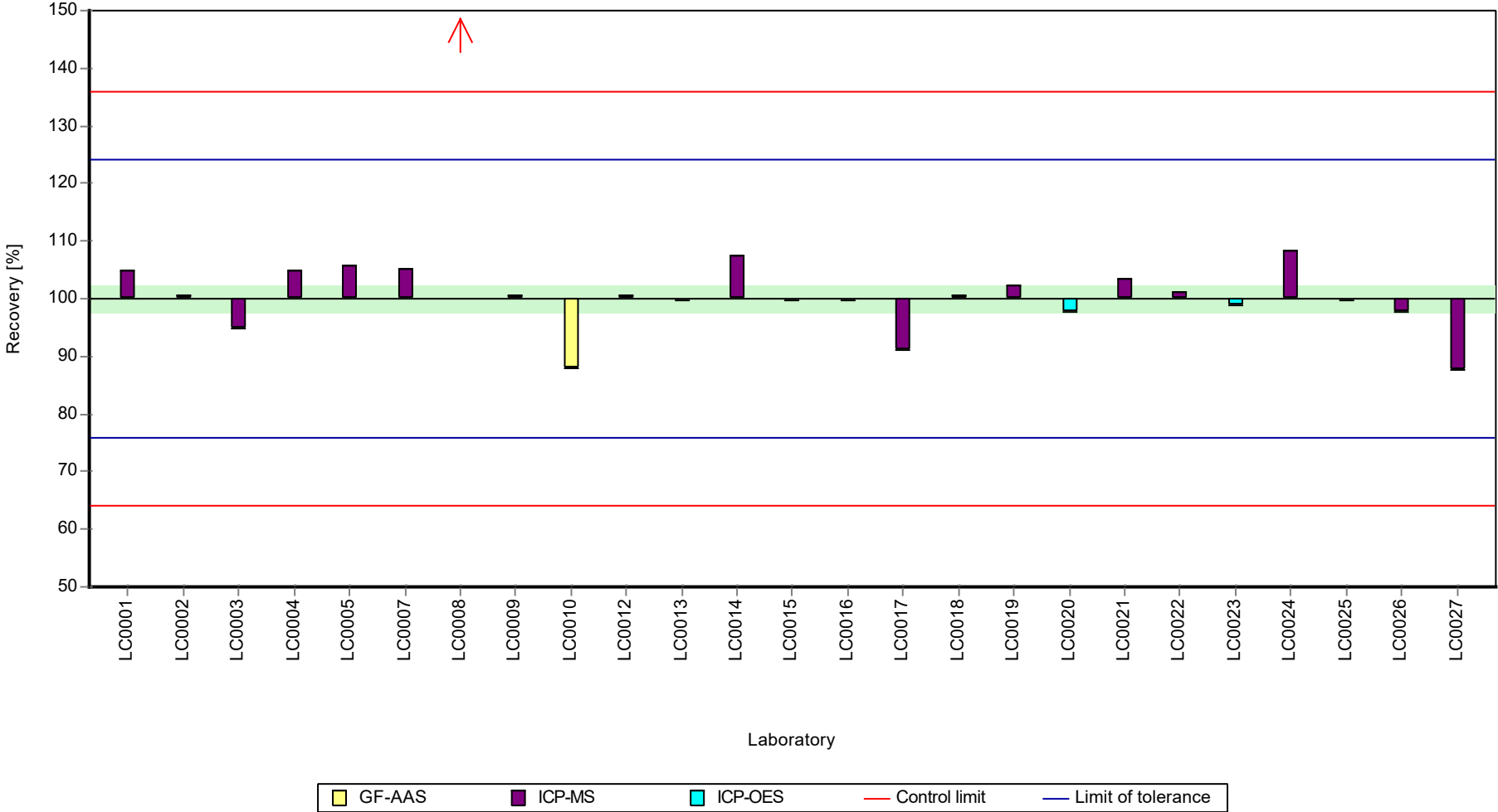
Graphical presentation of results
 Results



Parameter oriented report Metals and trace elements M175

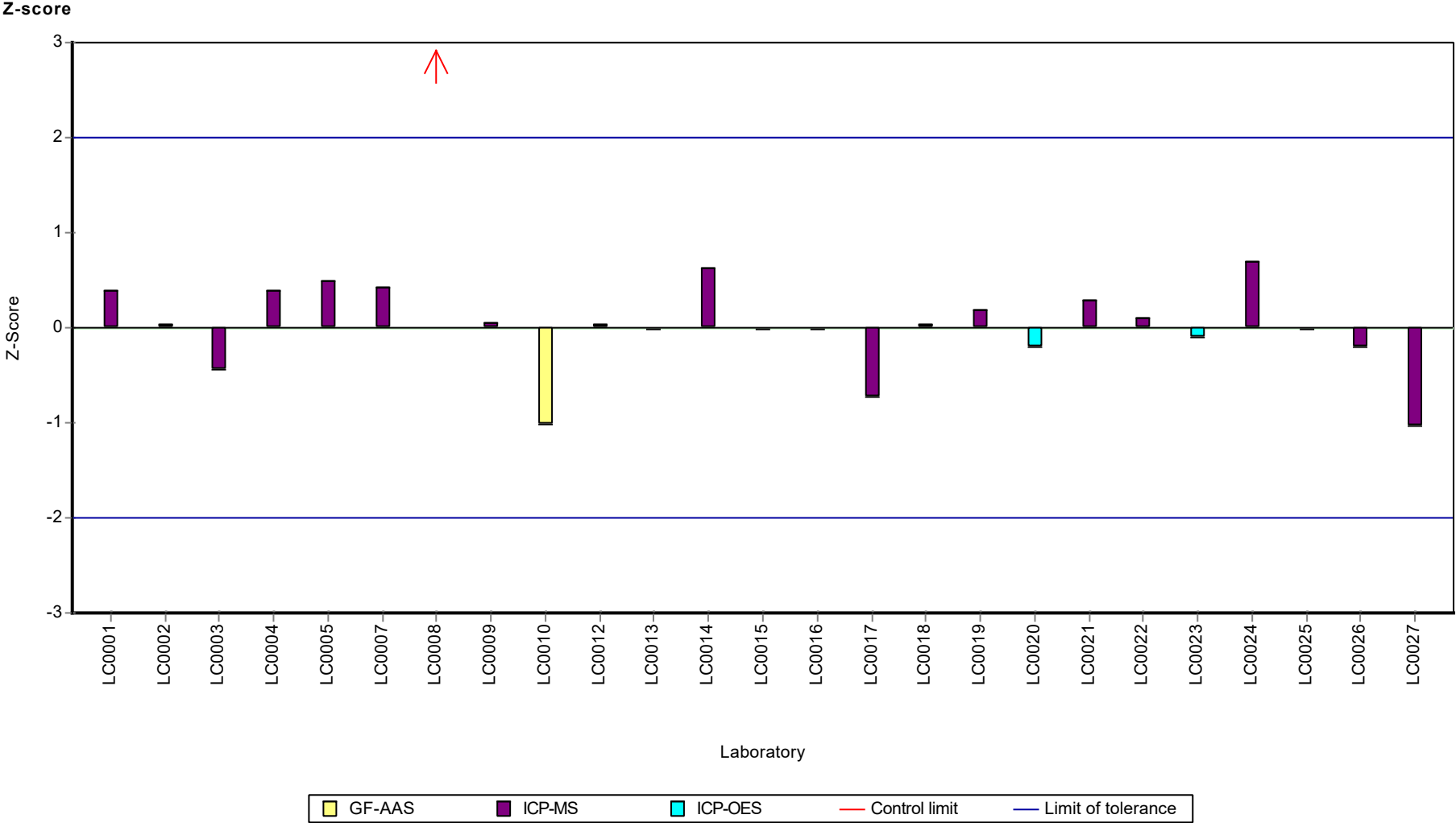
Sample: M175B, Parameter: Nickel

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Nickel



Parameter oriented report Metals and trace elements
M175

Sample: M175AHG, Parameter: Mercury

Parameter oriented report

M175 A Hg

Mercury

Unit	µg/l
Assigned value ± U (k=2)	0.572 ± 0.0178
Criterion	0.0801 (14 %)
Minimum - Maximum	0.51 - 0.65
Control test value ± U (k=2)	0.664 ± 0.12

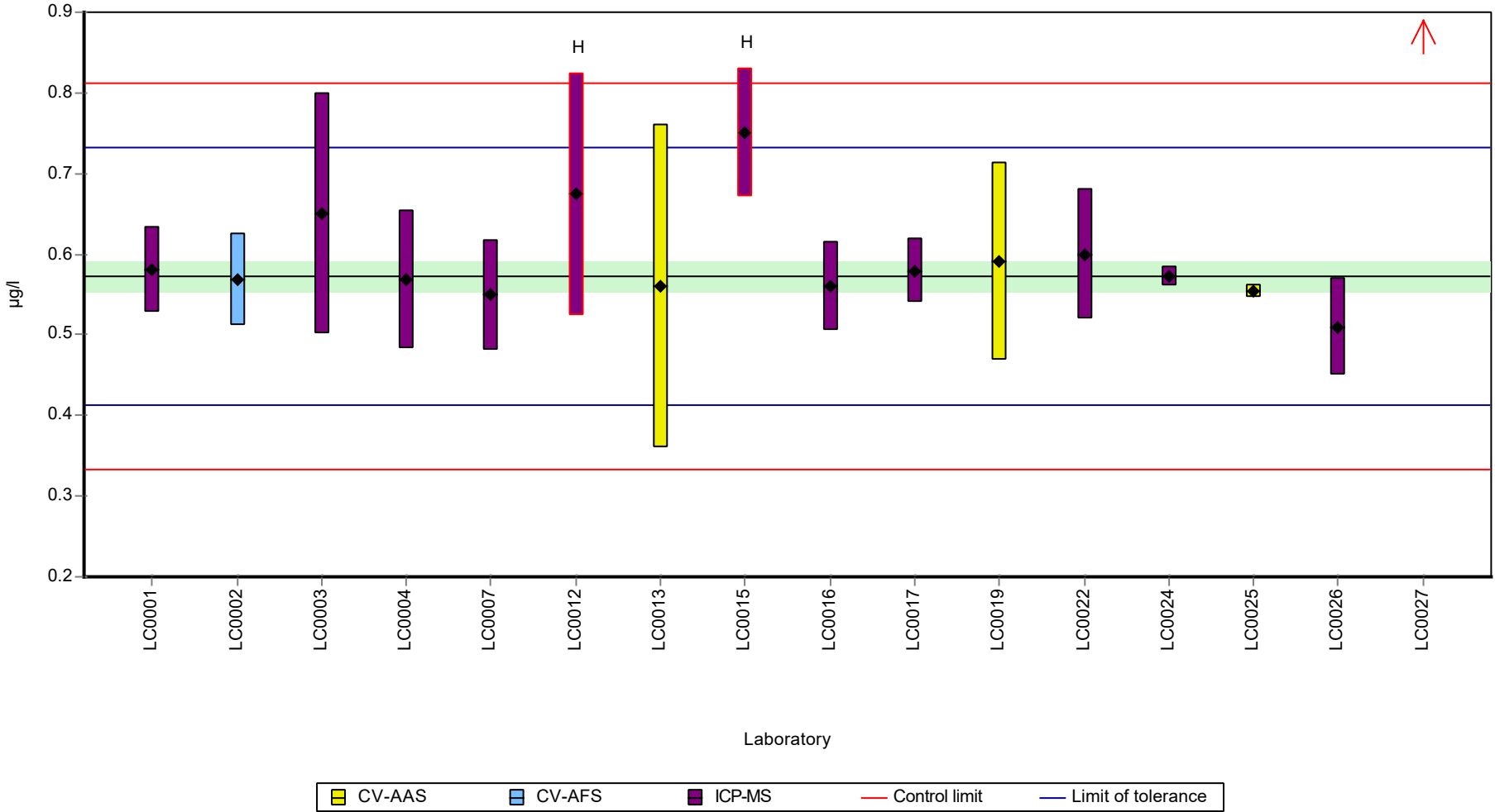
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.58	0.053	101	0.09	
LC0002	0.568	0.057	99.2	-0.06	
LC0003	0.65	0.15	114	0.97	
LC0004	0.569	0.086	99.4	-0.04	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	0.549	0.069	95.9	-0.29	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	0.674	0.15	118	1.27	H
LC0013	0.56	0.2	97.8	-0.16	
LC0014	-	-	-	-	
LC0015	0.75	0.08	131	2.22	H
LC0016	0.56	0.056	97.8	-0.16	
LC0017	0.579	0.04	101	0.08	
LC0018	-	-	-	-	
LC0019	0.5909	0.123	103	0.23	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	0.6	0.08	105	0.34	
LC0023	-	-	-	-	
LC0024	0.572	0.012	99.9	-0.01	
LC0025	0.554	0.008	96.8	-0.23	
LC0026	0.51	0.0612	89.1	-0.78	
LC0027	1.02	0.1	178	5.58	H

Characteristics of parameter

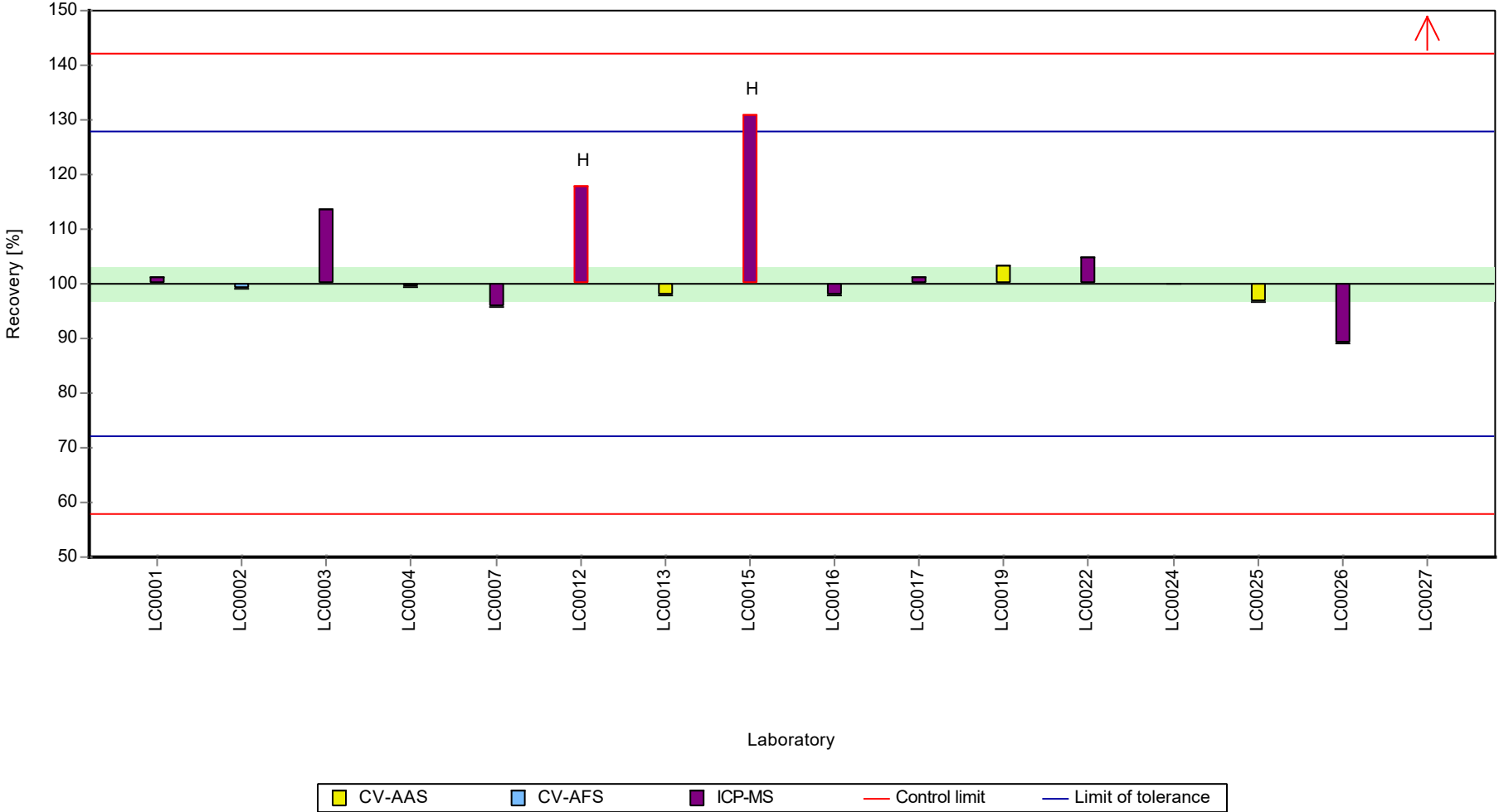
	all results	w without outliers	Unit
Mean ± CI (99%)	0.618 ± 0.0911	0.572 ± 0.0267	µg/l
Minimum	0.51	0.51	µg/l
Maximum	1.02	0.65	µg/l
Standard deviation	0.122	0.0321	µg/l
rel. standard deviation	19.7	5.6	%
n	16	13	-

Graphical presentation of results

Results

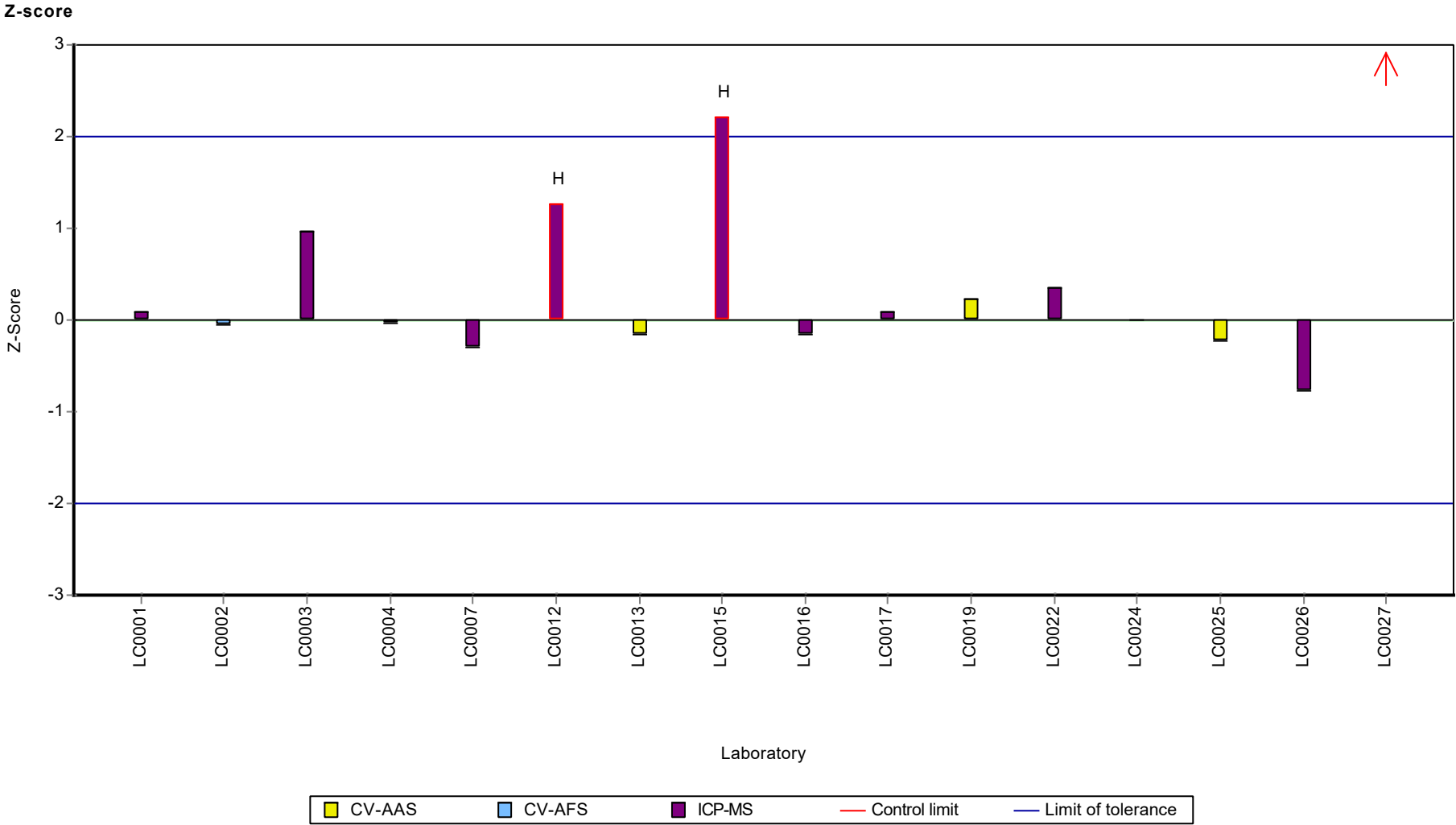


Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175AHG, Parameter: Mercury



Parameter oriented report Metals and trace elements
M175

Sample: M175BHG, Parameter: Mercury

Parameter oriented report

M175 B Hg

Mercury

Unit	µg/l
Assigned value ± U (k=2)	2.39 ± 0.0536
Criterion	0.334 (14 %)
Minimum - Maximum	2.24 - 2.6
Control test value ± U (k=2)	2.58 ± 0.464

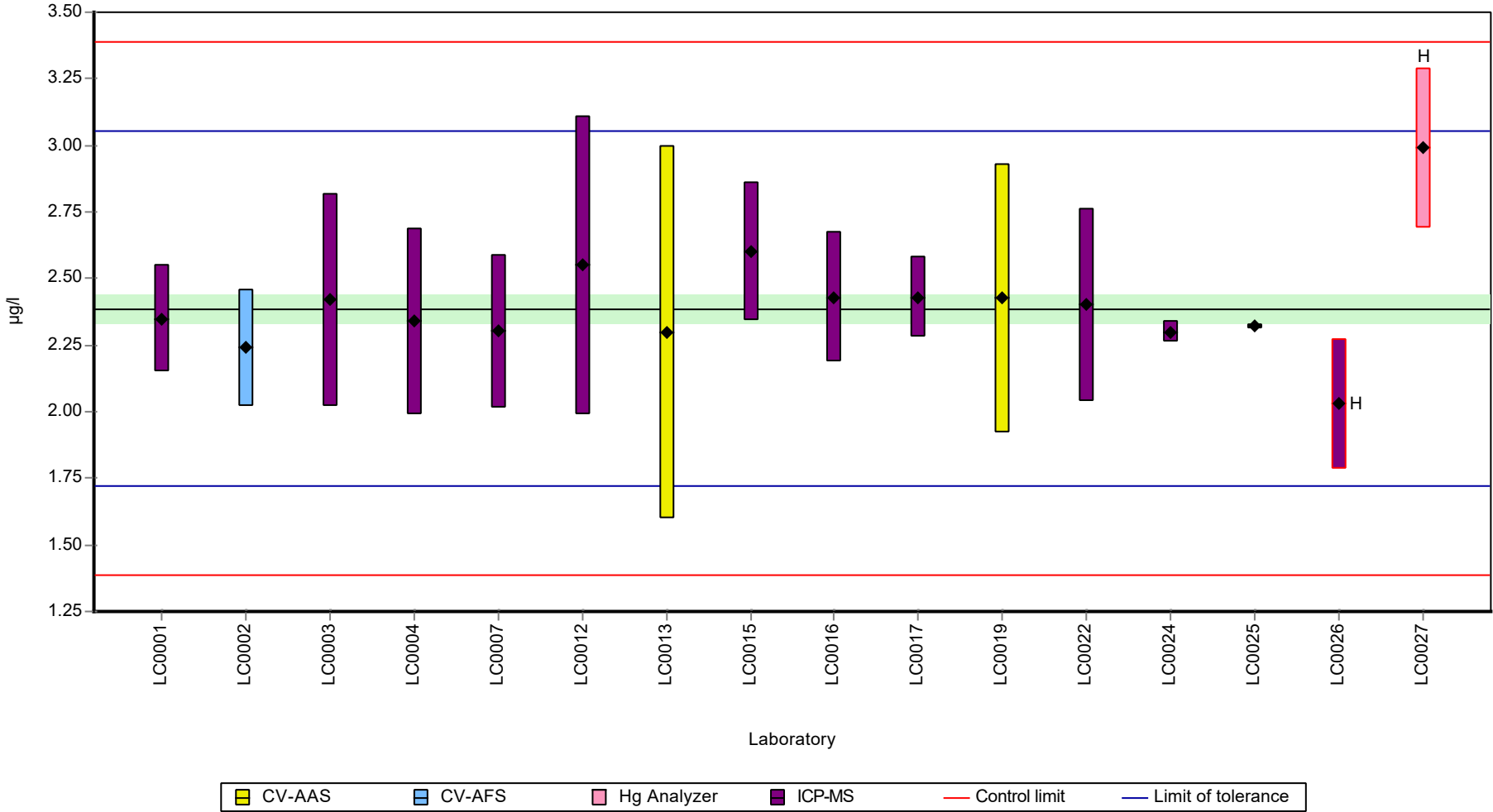
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2.35	0.2	98.5	-0.11	
LC0002	2.24	0.22	93.9	-0.44	
LC0003	2.42	0.4	101	0.1	
LC0004	2.34	0.35	98.1	-0.14	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	2.301	0.29	96.4	-0.26	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	2.55	0.56	107	0.49	
LC0013	2.3	0.7	96.4	-0.26	
LC0014	-	-	-	-	
LC0015	2.6	0.26	109	0.64	
LC0016	2.43	0.243	102	0.13	
LC0017	2.43	0.15	102	0.13	
LC0018	-	-	-	-	
LC0019	2.4264	0.504	102	0.12	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	2.4	0.36	101	0.04	
LC0023	-	-	-	-	
LC0024	2.3	0.04	96.4	-0.26	
LC0025	2.32	0.01	97.2	-0.2	
LC0026	2.03	0.244	85.1	-1.07	H
LC0027	2.99	0.3	125	1.81	H

Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	2.4 ± 0.152	2.39 ± 0.0804	µg/l
Minimum	2.03	2.24	µg/l
Maximum	2.99	2.6	µg/l
Standard deviation	0.203	0.1	µg/l
rel. standard deviation	8.45	4.2	%
n	16	14	-

Graphical presentation of results

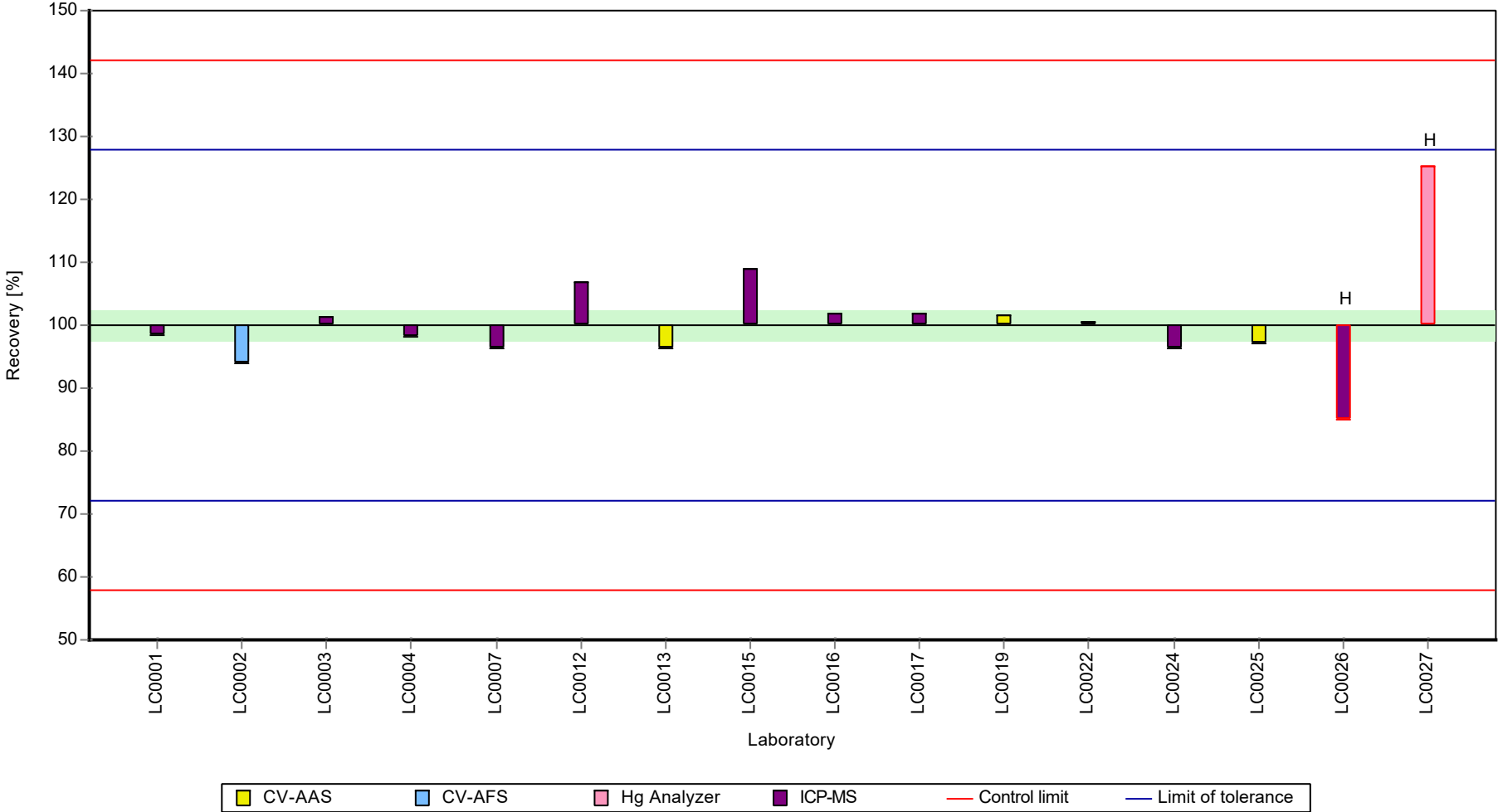
Results



Parameter oriented report Metals and trace elements M175

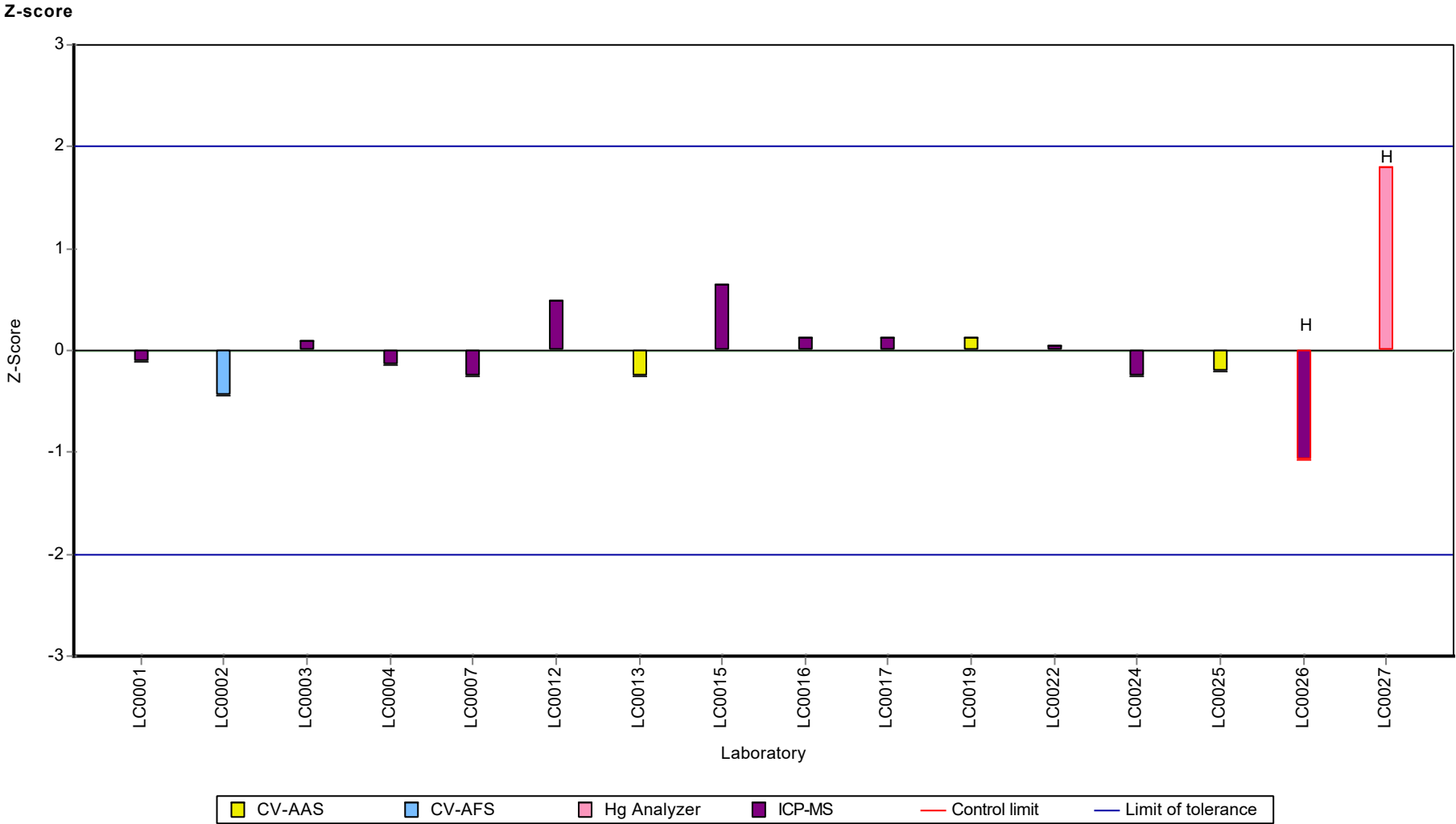
Sample: M175BHG, Parameter: Mercury

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175BHG, Parameter: Mercury



Parameter oriented report Metals and trace elements
M175

Sample: M175A, Parameter: Selenium

Parameter oriented report

M175 A

Selenium

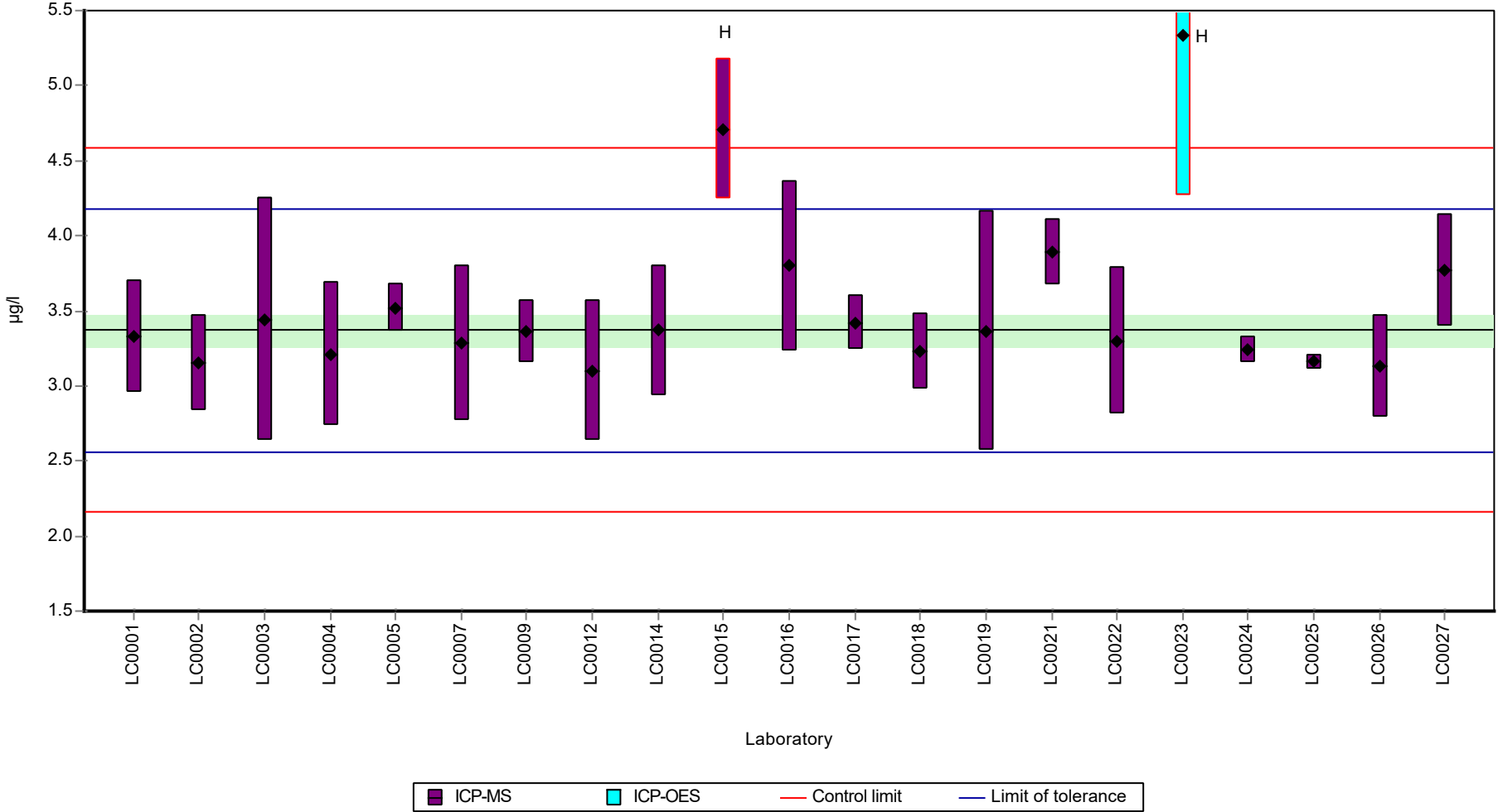
Unit	µg/l
Assigned value ± U (k=2)	3.37 ± 0.105
Criterion	0.405 (12 %)
Minimum - Maximum	3.1 - 3.89
Control test value ± U (k=2)	3.440 ± 0.516

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	3.33	0.37	98.8	-0.1	
LC0002	3.15	0.32	93.4	-0.55	
LC0003	3.44	0.81	102	0.17	
LC0004	3.21	0.48	95.2	-0.4	
LC0005	3.517	0.16	104	0.36	
LC0006	-	-	-	-	
LC0007	3.284	0.52	97.4	-0.22	
LC0008	-	-	-	-	
LC0009	3.361	0.212	99.7	-0.03	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	3.1	0.47	91.9	-0.67	
LC0013	-	-	-	-	
LC0014	3.369	0.438	99.9	-0.01	
LC0015	4.71	0.47	140	3.31	H
LC0016	3.8	0.57	113	1.06	
LC0017	3.42	0.18	101	0.12	
LC0018	3.23	0.25	95.8	-0.35	
LC0019	3.366	0.8	99.8	-0.01	
LC0020	-	-	-	-	
LC0021	3.89	0.22	115	1.28	
LC0022	3.3	0.49	97.9	-0.18	
LC0023	5.33	1.066	158	4.84	H
LC0024	3.24	0.09	96.1	-0.33	
LC0025	3.16	0.046	93.7	-0.52	
LC0026	3.13	0.344	92.8	-0.6	
LC0027	3.77	0.38	112	0.98	

Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	3.53 ± 0.36	3.37 ± 0.158	µg/l
Minimum	3.1	3.1	µg/l
Maximum	5.33	3.89	µg/l
Standard deviation	0.55	0.229	µg/l
rel. standard deviation	15.6	6.79	%
n	21	19	-

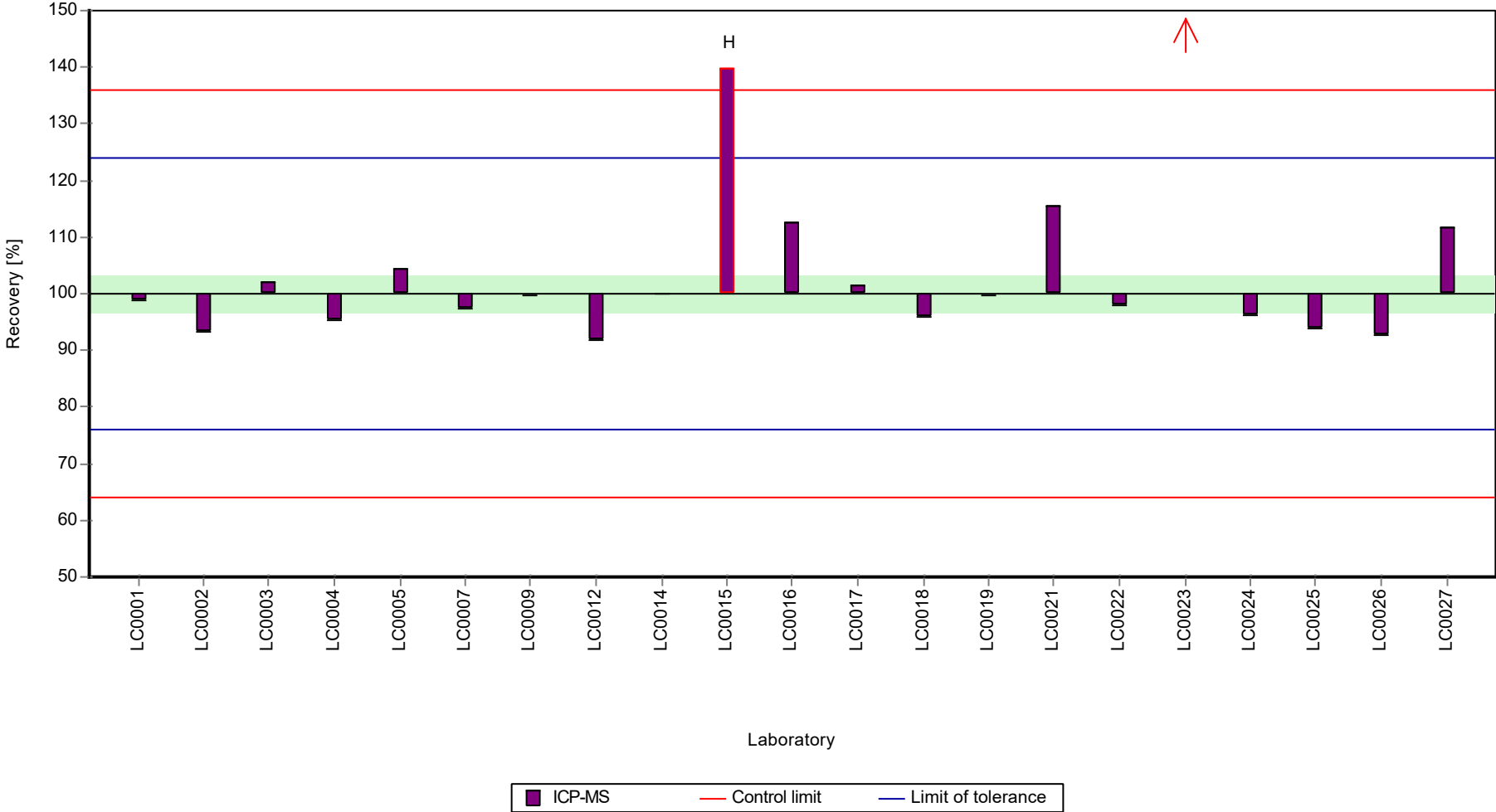
Graphical presentation of results
 Results



Parameter oriented report Metals and trace elements M175

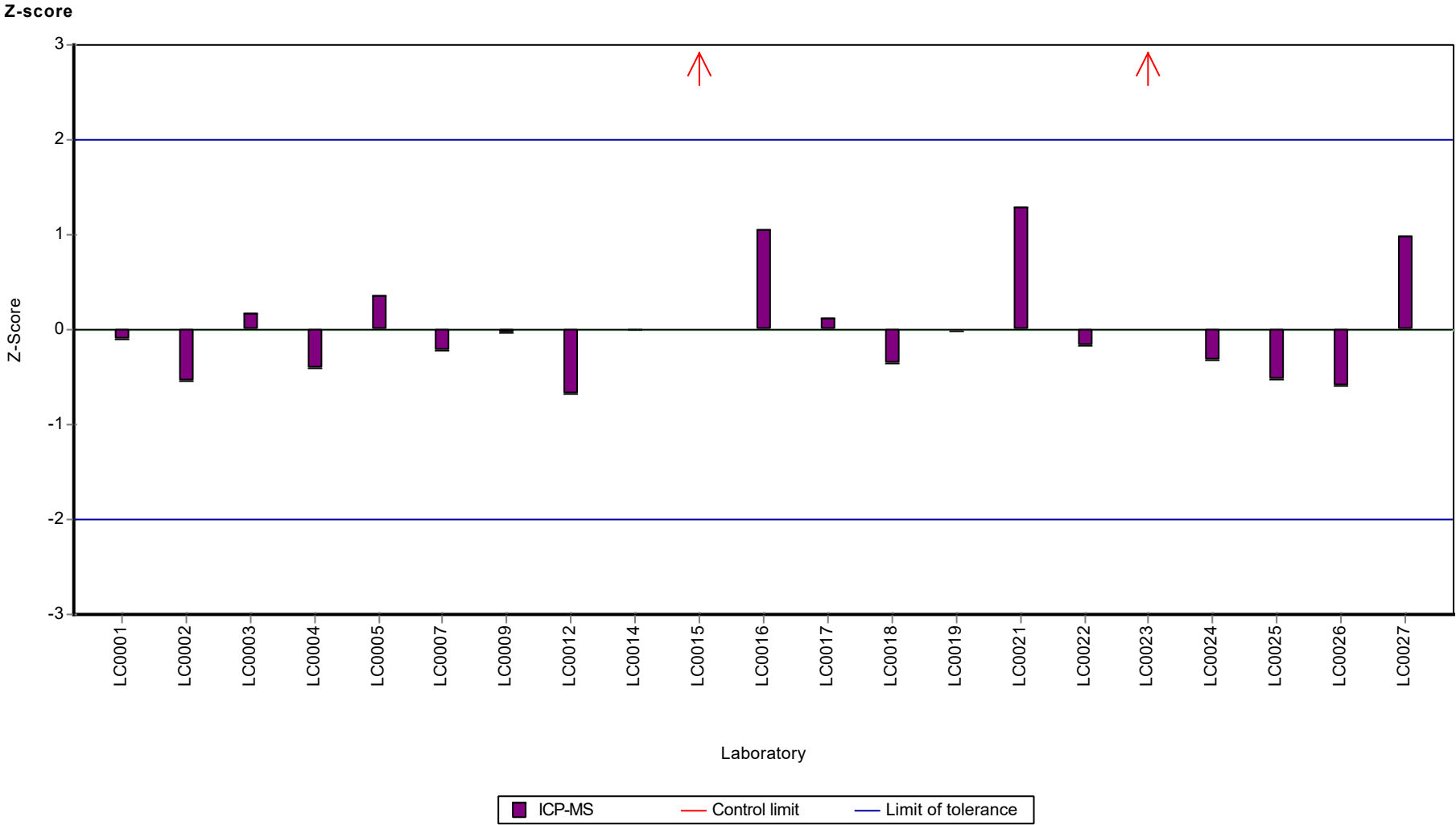
Sample: M175A, Parameter: Selenium

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Selenium



Parameter oriented report Metals and trace elements
M175

Sample: M175B, Parameter: Selenium

Parameter oriented report

M175 B

Selenium

Unit	µg/l
Assigned value ± U (k=2)	13.1 ± 0.352
Criterion	1.57 (12 %)
Minimum - Maximum	11.4 - 14.7
Control test value ± U (k=2)	13.1 ± 1.96

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	13.4	0.9	103	0.22	
LC0002	12.15	1.22	93	-0.58	
LC0003	13.03	2.3	99.8	-0.02	
LC0004	12.7	1.91	97.2	-0.23	
LC0005	13.354	0.59	102	0.19	
LC0006	-	-	-	-	
LC0007	12.379	1.98	94.8	-0.43	
LC0008	-	-	-	-	
LC0009	12.61	0.794	96.5	-0.29	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	12.6	1.9	96.5	-0.29	
LC0013	-	-	-	-	
LC0014	13.113	1.705	100	0.03	
LC0015	13.38	1.3	102	0.2	
LC0016	14.4	2.16	110	0.85	
LC0017	12.8	0.58	98	-0.17	
LC0018	12.53	0.98	95.9	-0.34	
LC0019	12.95	3.08	99.2	-0.07	
LC0020	-	-	-	-	
LC0021	13.73	0.78	105	0.43	
LC0022	12.6	1.89	96.5	-0.29	
LC0023	14.65	2.93	112	1.01	
LC0024	13	0.17	99.5	-0.04	
LC0025	11.4	0.312	87.3	-1.06	
LC0026	12.8	1.41	98	-0.17	
LC0027	14.7	1.5	113	1.05	

Characteristics of parameter

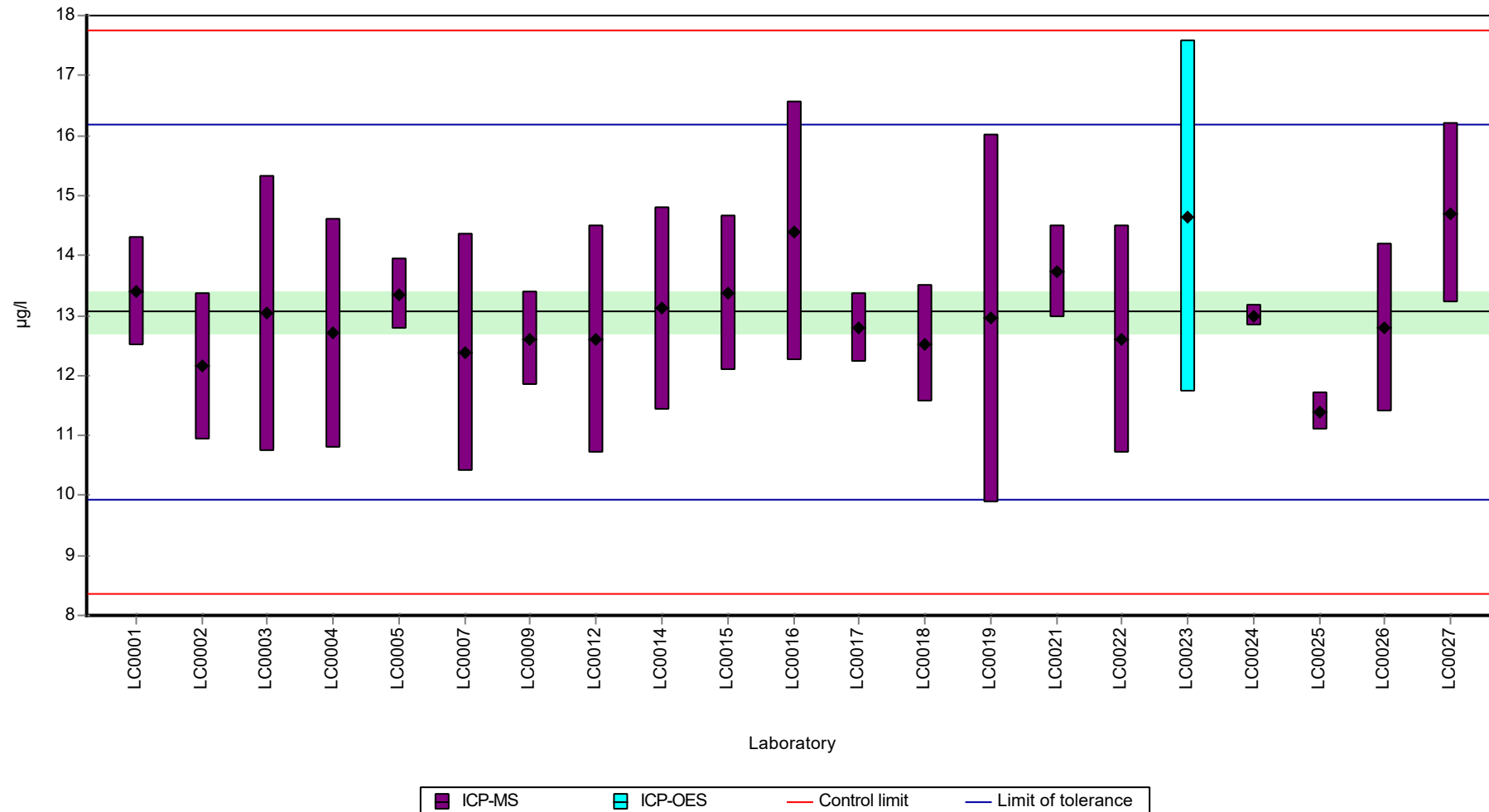
	all results	w without outliers	Unit
Mean ± CI (99%)	13.1 ± 0.528	13.1 ± 0.528	µg/l
Minimum	11.4	11.4	µg/l
Maximum	14.7	14.7	µg/l
Standard deviation	0.806	0.806	µg/l
rel. standard deviation	6.17	6.17	%
n	21	21	-

Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Selenium

Graphical presentation of results

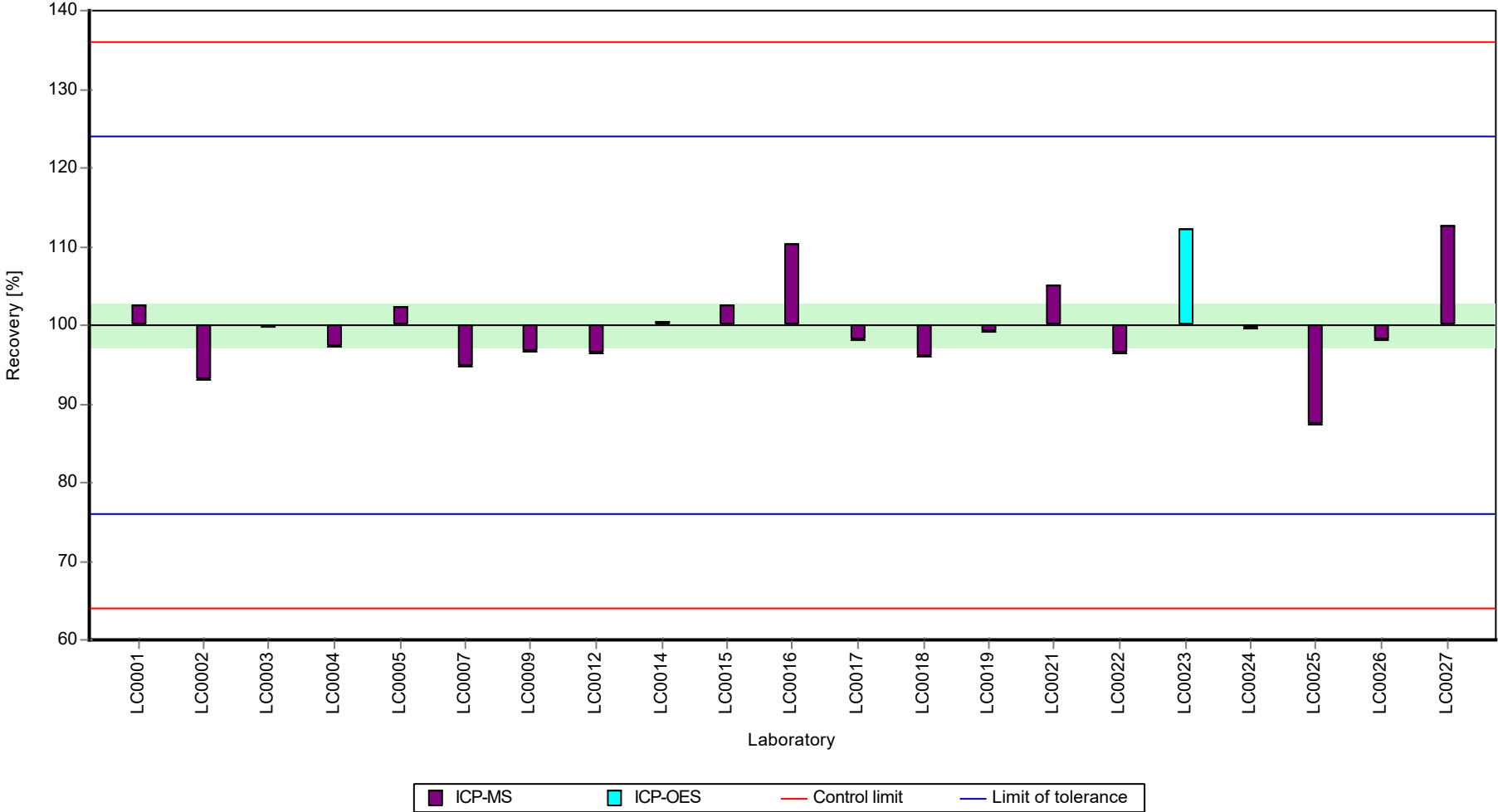
Results



Parameter oriented report Metals and trace elements M175

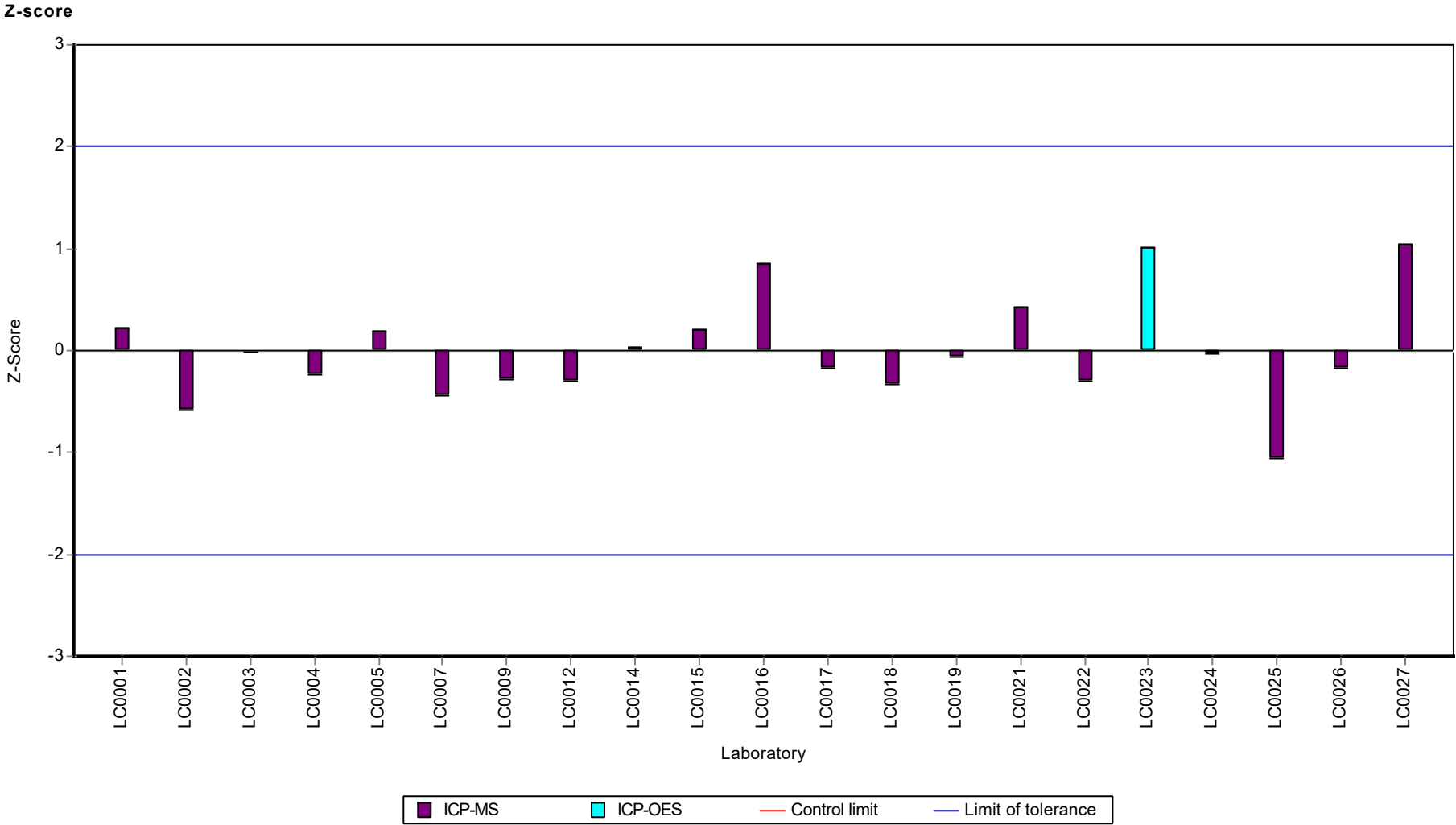
Sample: M175B, Parameter: Selenium

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Selenium



Parameter oriented report Metals and trace elements
M175

Sample: M175A, Parameter: Uranium

Parameter oriented report

M175 A

Uranium

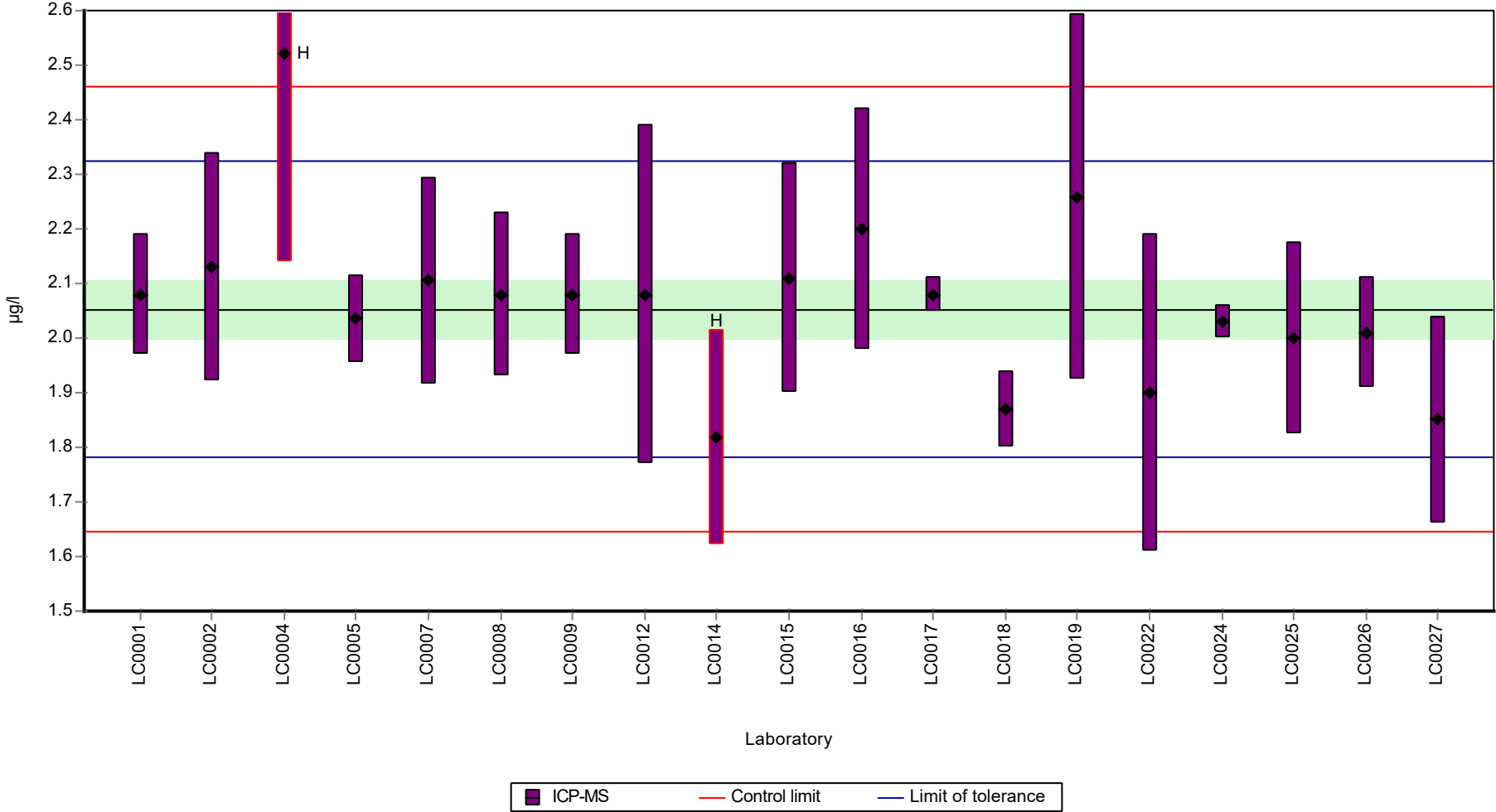
Unit	µg/l
Assigned value ± U (k=2)	2.05 ± 0.0519
Criterion	0.135 (6.6 %)
Minimum - Maximum	1.85 - 2.26
Control test value ± U (k=2)	2.02 ± 0.202

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2.08	0.11	101	0.2	
LC0002	2.13	0.21	104	0.57	
LC0003	-	-	-	-	
LC0004	2.52	0.38	123	3.45	H
LC0005	2.035	0.08	99.1	-0.13	
LC0006	-	-	-	-	
LC0007	2.105	0.19	103	0.38	
LC0008	2.08	0.15	101	0.2	
LC0009	2.08	0.11	101	0.2	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	2.08	0.31	101	0.2	
LC0013	-	-	-	-	
LC0014	1.818	0.198	88.6	-1.73	H
LC0015	2.11	0.21	103	0.42	
LC0016	2.2	0.22	107	1.09	
LC0017	2.08	0.032	101	0.2	
LC0018	1.87	0.07	91.1	-1.35	
LC0019	2.259	0.336	110	1.52	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	1.9	0.29	92.6	-1.13	
LC0023	-	-	-	-	
LC0024	2.03	0.031	98.9	-0.17	
LC0025	2	0.176	97.4	-0.39	
LC0026	2.01	0.101	97.9	-0.32	
LC0027	1.85	0.19	90.1	-1.5	

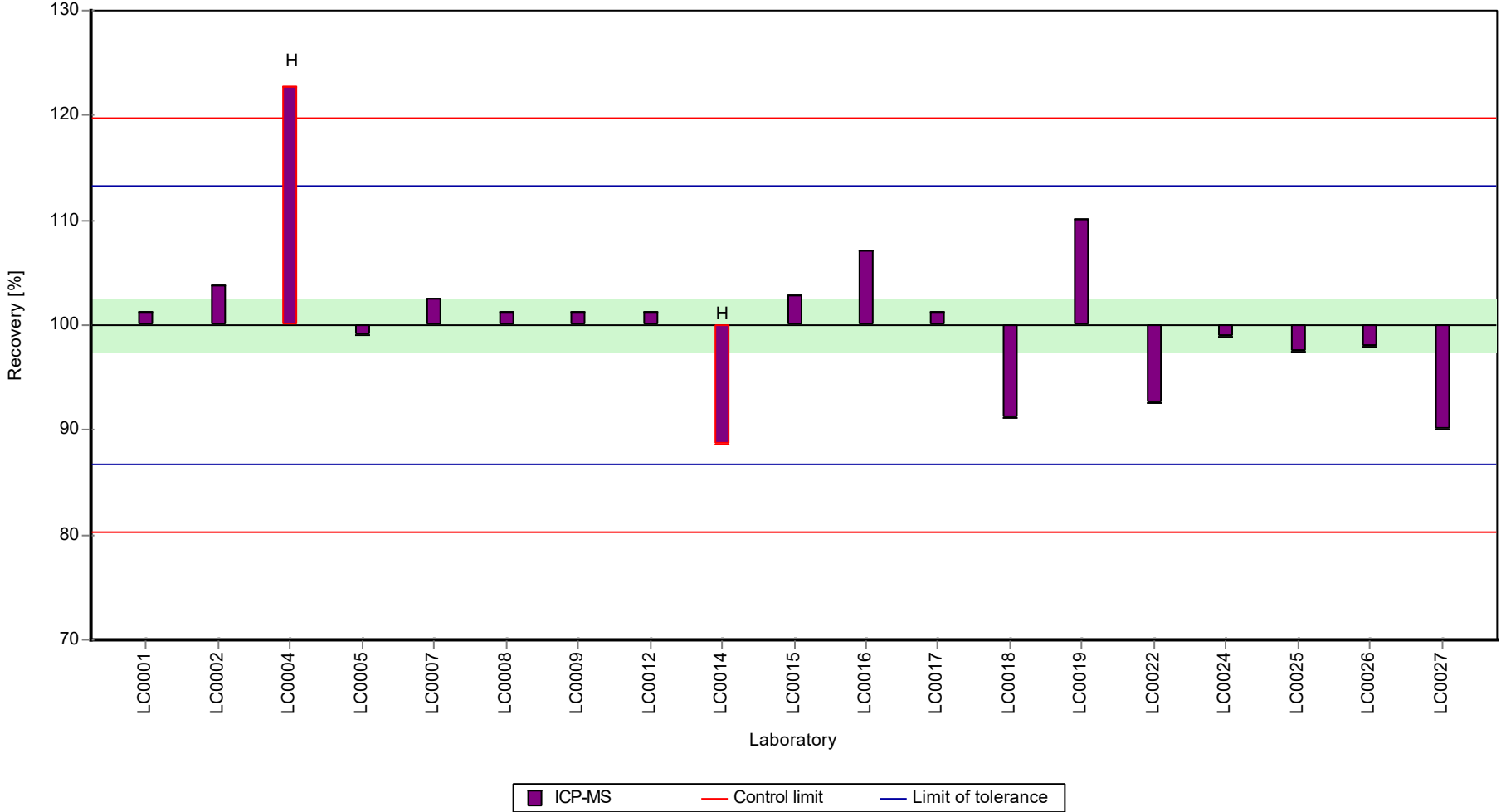
Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	2.07 ± 0.109	2.05 ± 0.0779	µg/l
Minimum	1.82	1.85	µg/l
Maximum	2.52	2.26	µg/l
Standard deviation	0.159	0.107	µg/l
rel. standard deviation	7.69	5.21	%
n	19	17	-

Graphical presentation of results
 Results

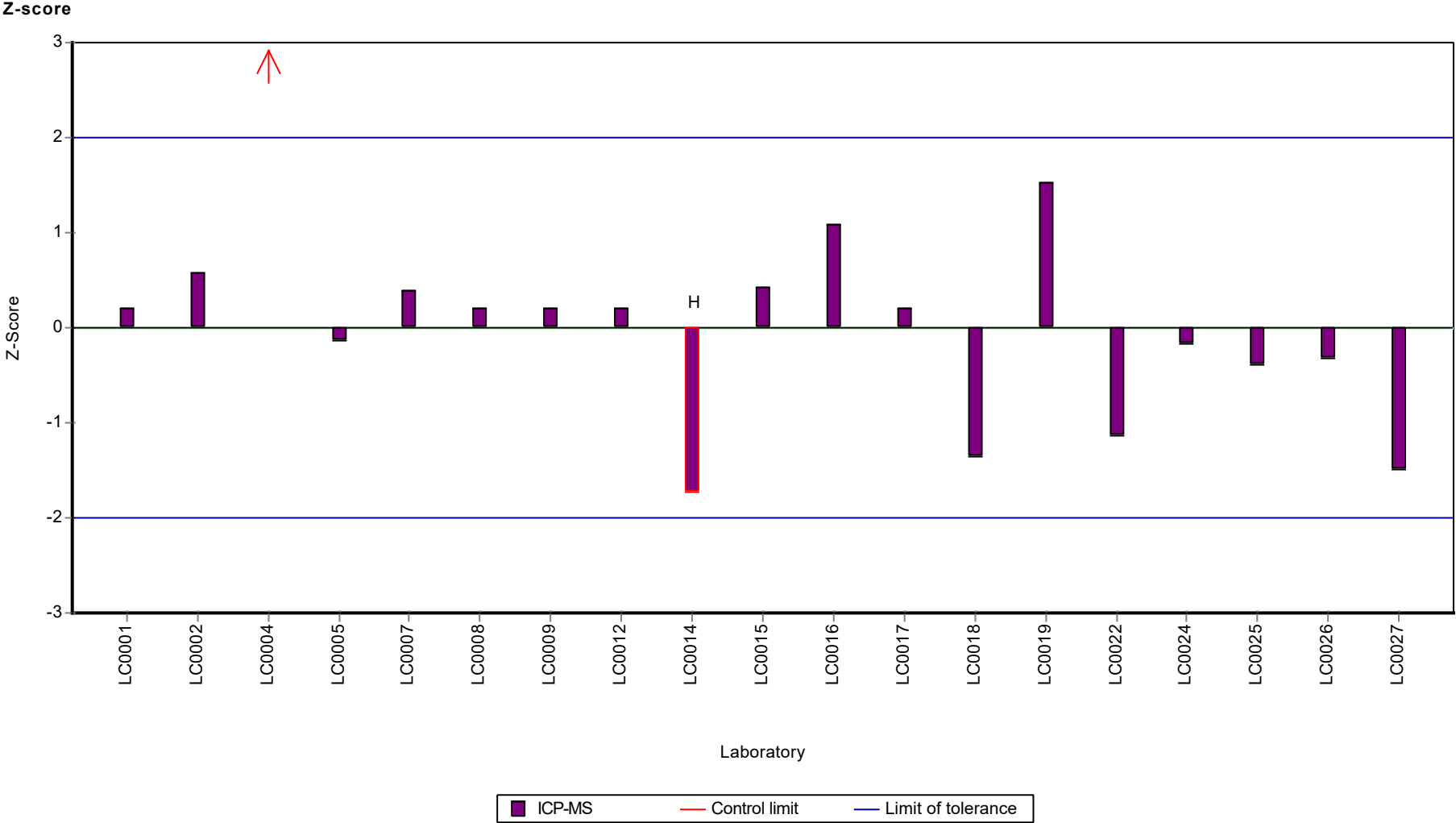


Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Uranium



Parameter oriented report Metals and trace elements
M175

Sample: M175B, Parameter: Uranium

Parameter oriented report

M175 B

Uranium

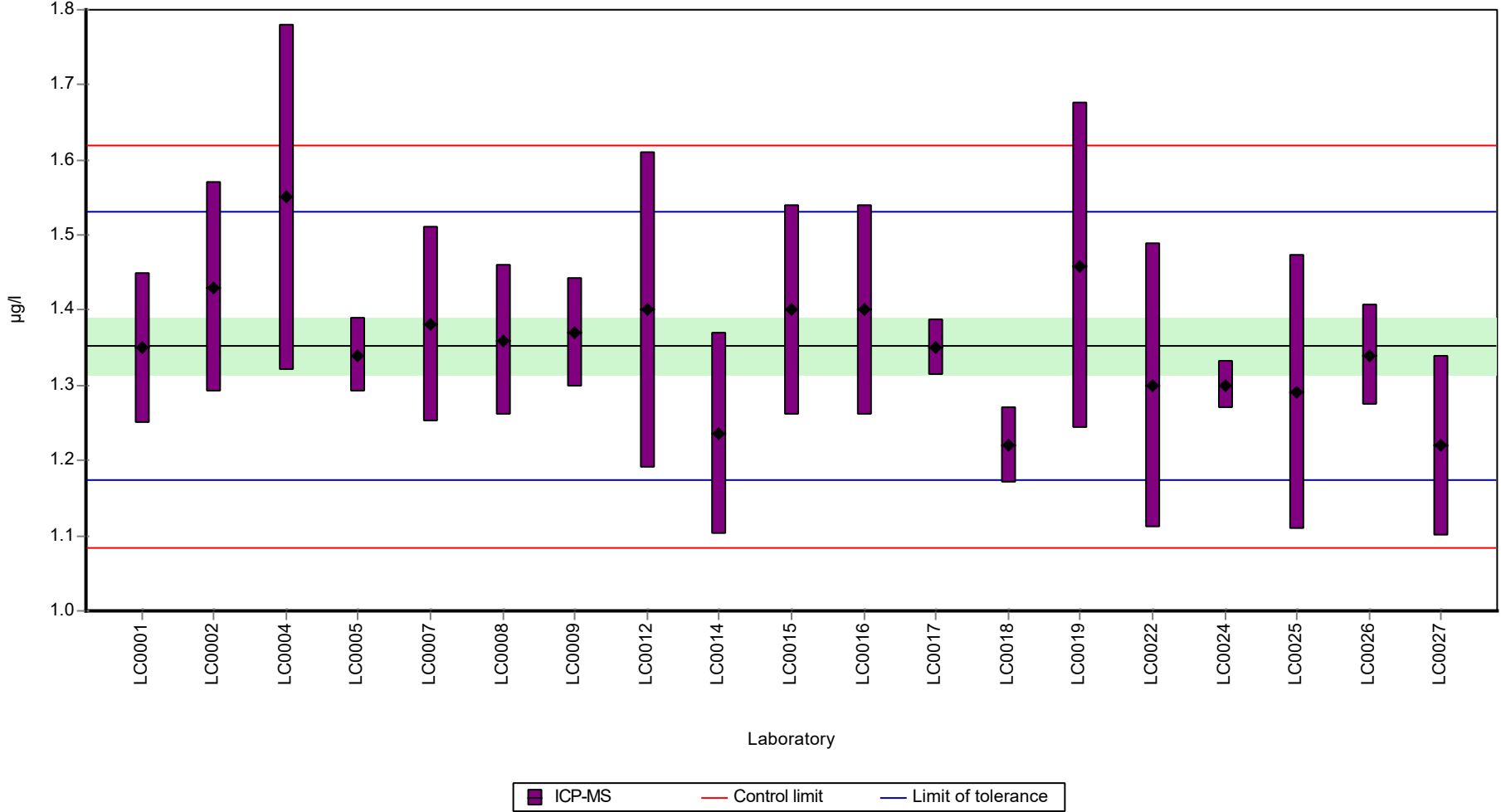
Unit	µg/l
Assigned value ± U (k=2)	1.35 ± 0.0379
Criterion	0.0893 (6.6 %)
Minimum - Maximum	1.22 - 1.55
Control test value ± U (k=2)	1.30 ± 0.13

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.35	0.1	99.8	-0.03	
LC0002	1.43	0.14	106	0.87	
LC0003	-	-	-	-	
LC0004	1.55	0.23	115	2.21	
LC0005	1.34	0.05	99.1	-0.14	
LC0006	-	-	-	-	
LC0007	1.382	0.13	102	0.33	
LC0008	1.36	0.1	101	0.08	
LC0009	1.371	0.0727	101	0.21	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	1.4	0.21	104	0.53	
LC0013	-	-	-	-	
LC0014	1.236	0.135	91.4	-1.31	
LC0015	1.4	0.14	104	0.53	
LC0016	1.4	0.14	104	0.53	
LC0017	1.35	0.038	99.8	-0.03	
LC0018	1.22	0.05	90.2	-1.48	
LC0019	1.459	0.217	108	1.19	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	1.3	0.19	96.1	-0.59	
LC0023	-	-	-	-	
LC0024	1.3	0.032	96.1	-0.59	
LC0025	1.29	0.183	95.4	-0.7	
LC0026	1.34	0.067	99.1	-0.14	
LC0027	1.22	0.12	90.2	-1.48	

Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	1.35 ± 0.0569	1.35 ± 0.0569	µg/l
Minimum	1.22	1.22	µg/l
Maximum	1.55	1.55	µg/l
Standard deviation	0.0826	0.0826	µg/l
rel. standard deviation	6.11	6.11	%
n	19	19	-

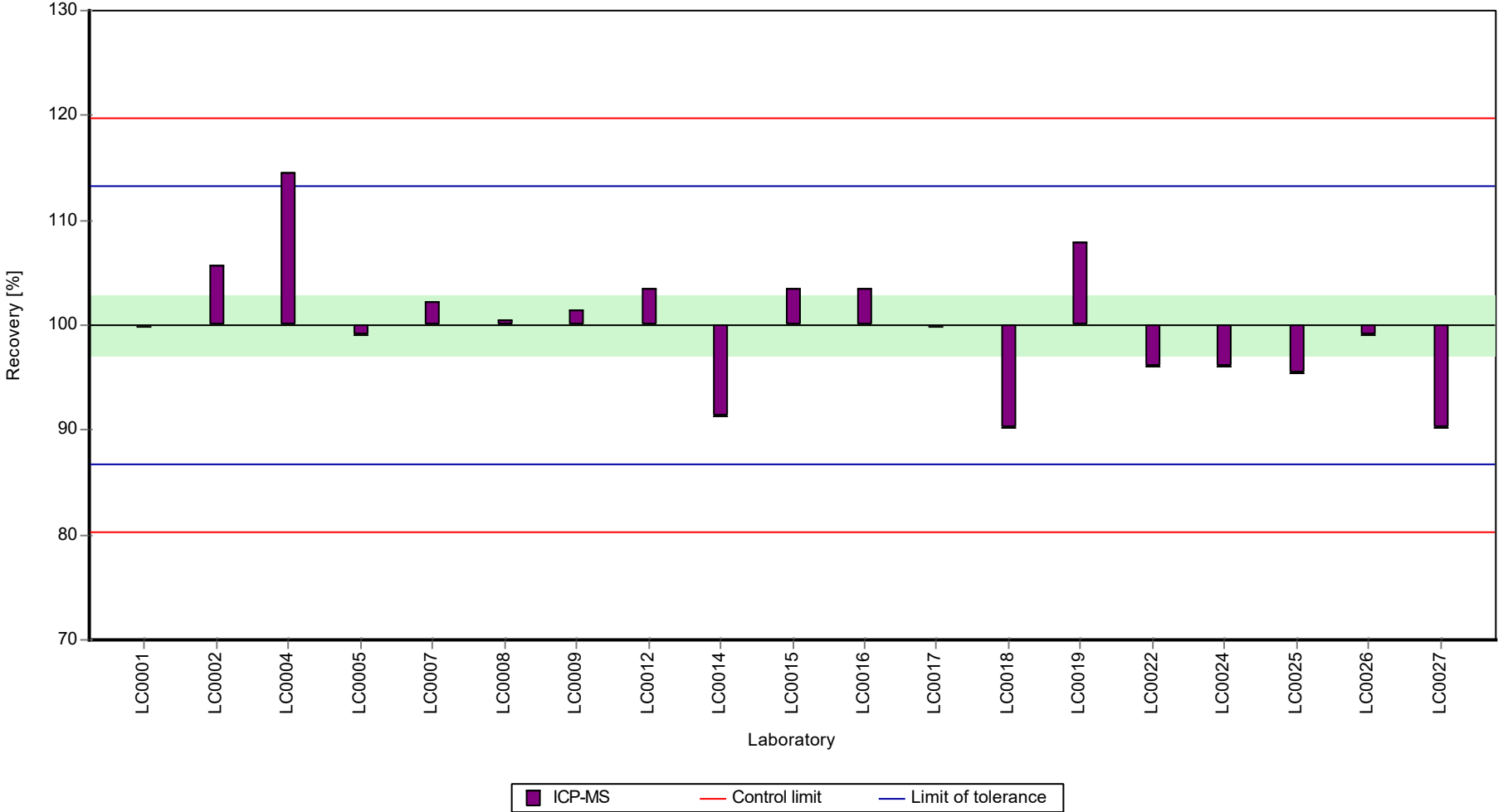
Graphical presentation of results
 Results



Parameter oriented report Metals and trace elements M175

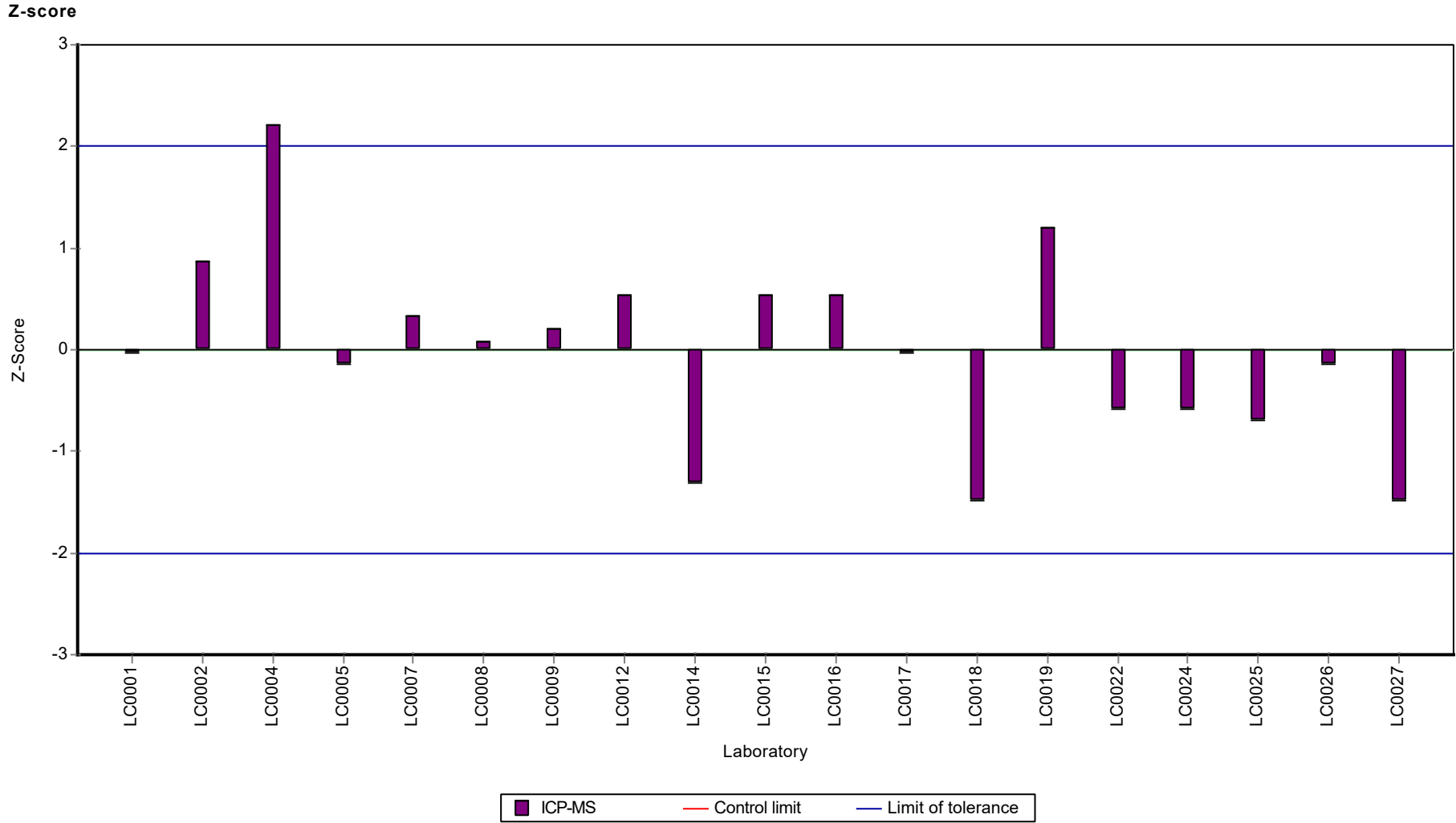
Sample: M175B, Parameter: Uranium

Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Uranium



Parameter oriented report Metals and trace elements
M175

Sample: M175A, Parameter: Zinc

Parameter oriented report

M175 A

Zinc

Unit	µg/l
Assigned value ± U (k=2)	342 ± 8.95
Criterion	30.8 (9 %)
Minimum - Maximum	295 - 389
Control test value ± U (k=2)	326 ± 71.6

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	356	21.5	104	0.47	
LC0002	324	33	94.8	-0.57	
LC0003	346	39	101	0.14	
LC0004	295	44.3	86.3	-1.52	
LC0005	358.567	15.45	105	0.55	
LC0006	-	-	-	-	
LC0007	343.62	43.7	101	0.06	
LC0008	333	23	97.5	-0.28	
LC0009	342.7	12.7	100	0.03	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	317	48	92.8	-0.8	
LC0013	360	36	105	0.6	
LC0014	373.13	36.567	109	1.02	
LC0015	304.2	30.4	89	-1.22	
LC0016	343	34.3	100	0.04	
LC0017	322	11.8	94.2	-0.64	
LC0018	360	16.5	105	0.6	
LC0019	449.9	50.7	132	3.52	H
LC0020	338	14	98.9	-0.12	
LC0021	352.4	17.48	103	0.35	
LC0022	338	50.6	98.9	-0.12	
LC0023	334.95	40.62944	98	-0.22	
LC0024	356	2.5	104	0.47	
LC0025	348	2.28	102	0.21	
LC0026	324	16.2	94.8	-0.57	
LC0027	389	39	114	1.54	

Characteristics of parameter

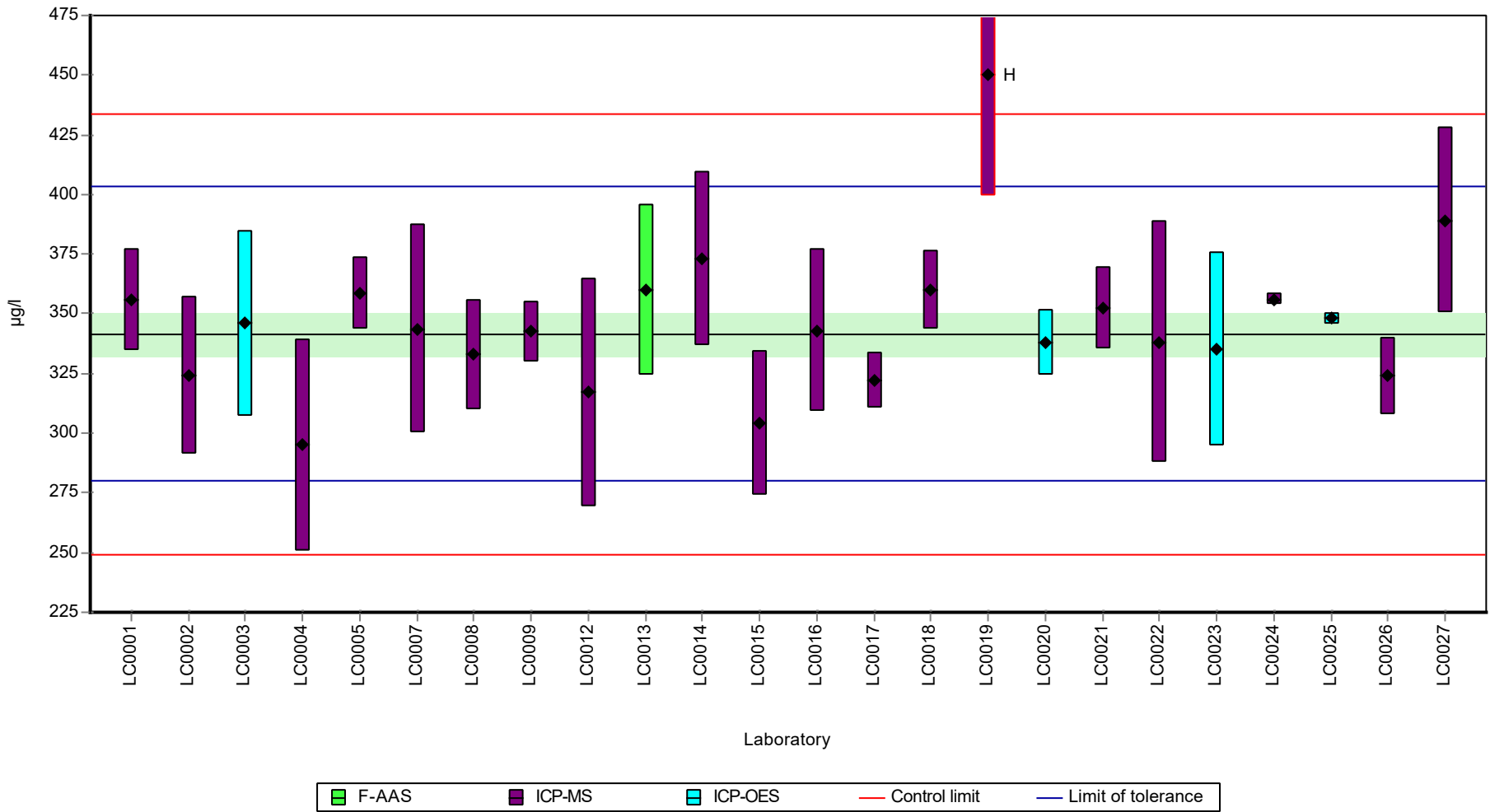
	all results	w without outliers	Unit
Mean ± CI (99%)	346 ± 18.7	342 ± 13.4	µg/l
Minimum	295	295	µg/l
Maximum	450	389	µg/l
Standard deviation	30.5	21.5	µg/l
rel. standard deviation	8.8	6.28	%
n	24	23	-

Parameter oriented report Metals and trace elements M175

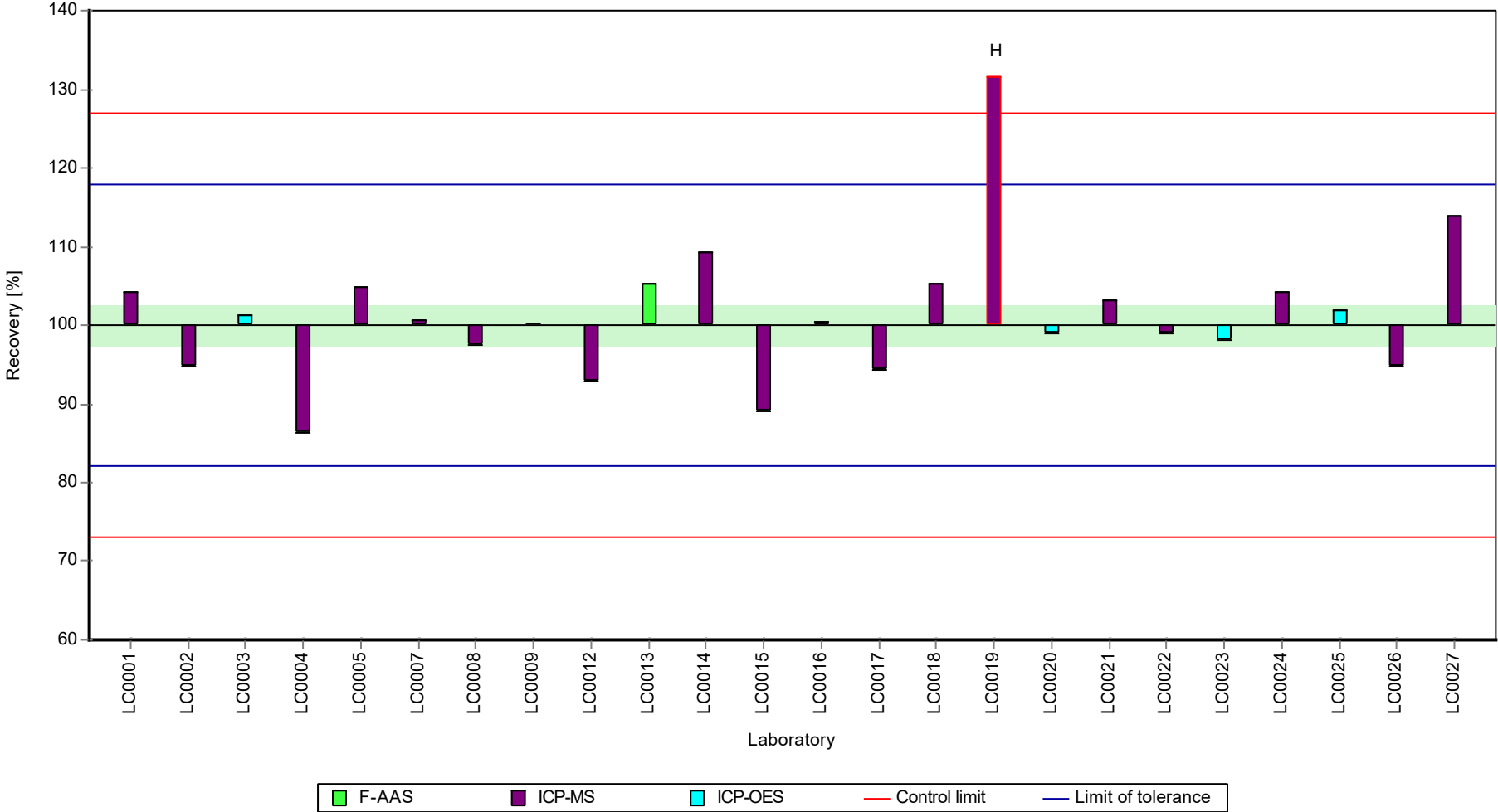
Sample: M175A, Parameter: Zinc

Graphical presentation of results

Results

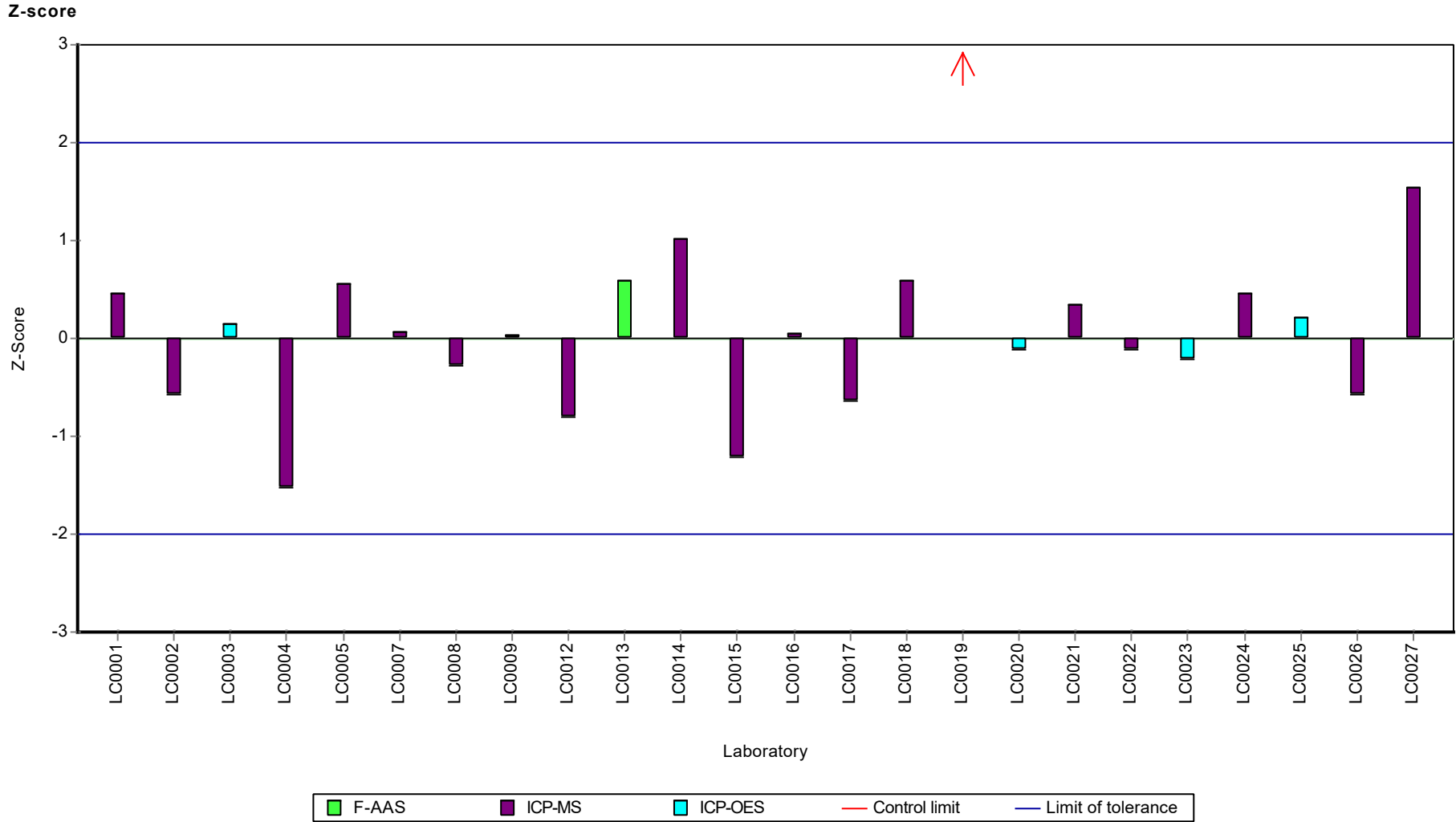


Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175A, Parameter: Zinc



Parameter oriented report Metals and trace elements
M175

Sample: M175B, Parameter: Zinc

Parameter oriented report

M175 B

Zinc

Unit	µg/l
Assigned value ± U (k=2)	1550 ± 29.4
Criterion	140 (9 %)
Minimum - Maximum	1380 - 1660
Control test value ± U (k=2)	1410 ± 311

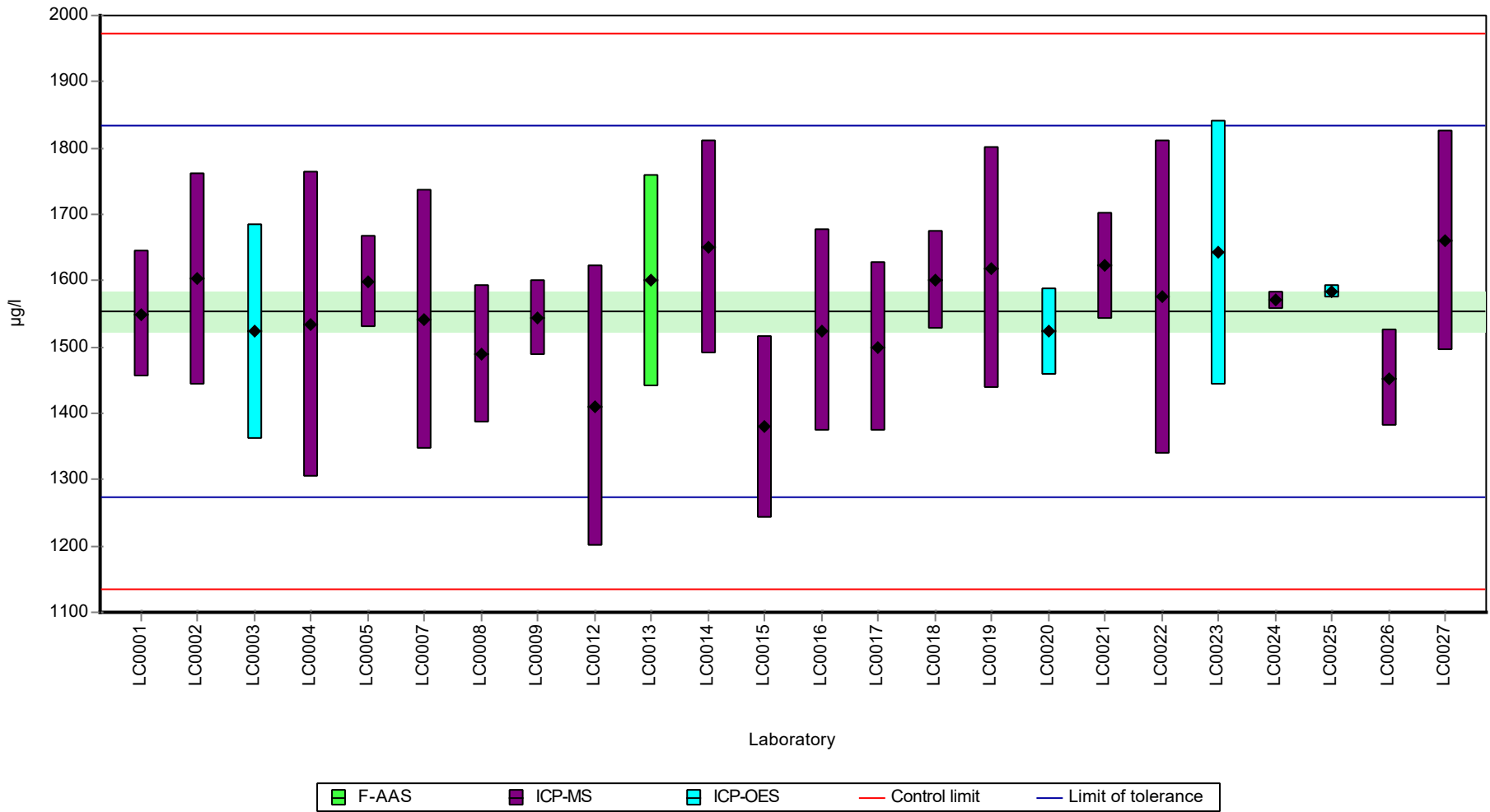
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1550	94.8	99.7	-0.03	
LC0002	1603	160	103	0.35	
LC0003	1523	162	98	-0.22	
LC0004	1534	230	98.7	-0.14	
LC0005	1598.553	68.9	103	0.32	
LC0006	-	-	-	-	
LC0007	1541.8	196	99.2	-0.09	
LC0008	1490	104	95.9	-0.46	
LC0009	1544	57.3	99.4	-0.07	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	1410	212	90.7	-1.03	
LC0013	1600	160	103	0.33	
LC0014	1650.32	161.731	106	0.69	
LC0015	1379	138	88.7	-1.25	
LC0016	1525	153	98.1	-0.21	
LC0017	1500	127	96.5	-0.39	
LC0018	1600	74	103	0.33	
LC0019	1619	182.4	104	0.46	
LC0020	1523	65	98	-0.22	
LC0021	1622.79	80.49	104	0.49	
LC0022	1575	236	101	0.15	
LC0023	1641.9	199.16247	106	0.63	
LC0024	1570	13	101	0.11	
LC0025	1584	9.46	102	0.21	
LC0026	1453	72.7	93.5	-0.72	
LC0027	1660	166	107	0.76	

Characteristics of parameter

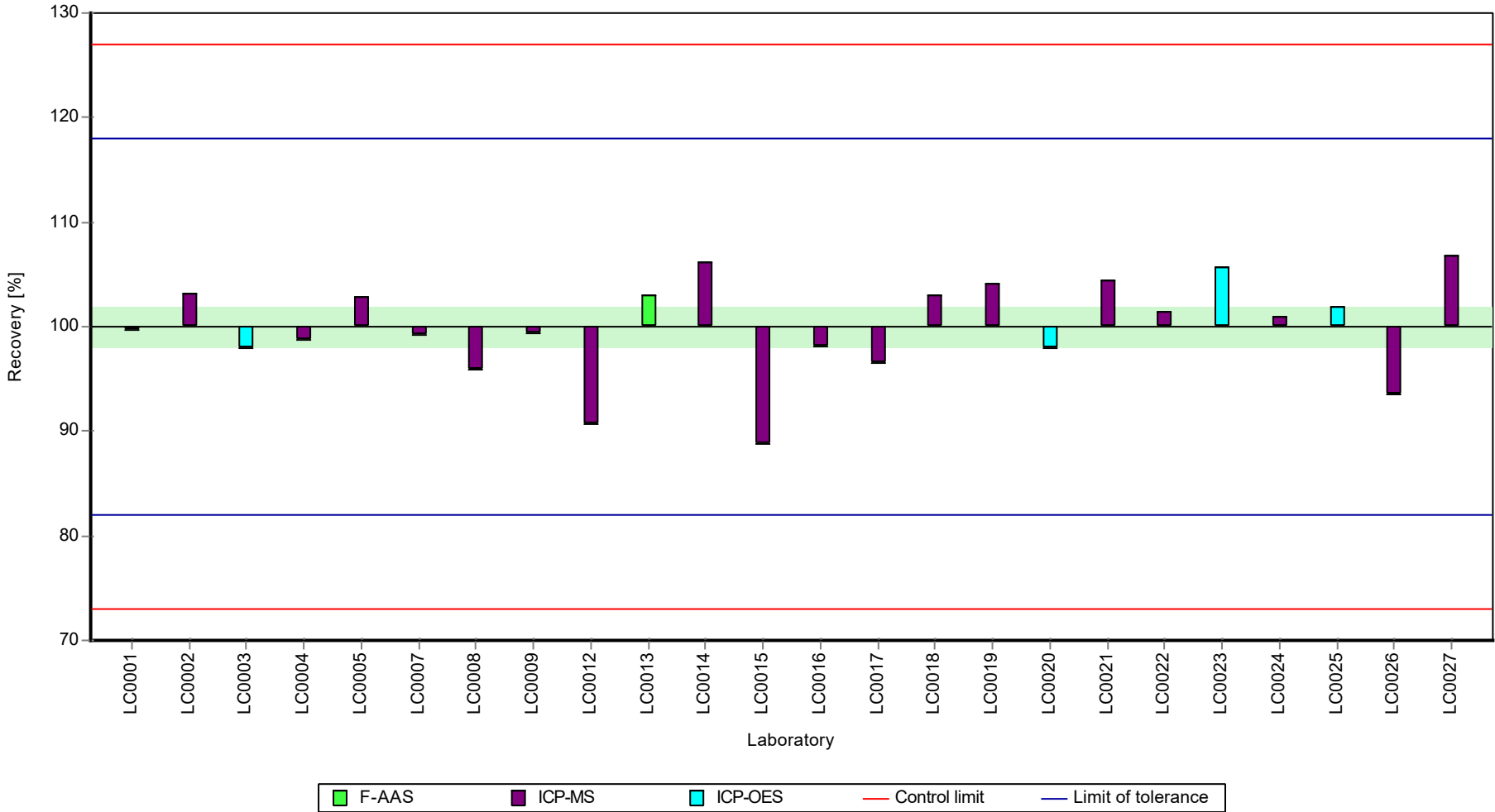
	all results	w without outliers	Unit
Mean ± CI (99%)	1550 ± 44.1	1550 ± 44.1	µg/l
Minimum	1380	1380	µg/l
Maximum	1660	1660	µg/l
Standard deviation	72.1	72.1	µg/l
rel. standard deviation	4.64	4.64	%
n	24	24	-

Graphical presentation of results

Results

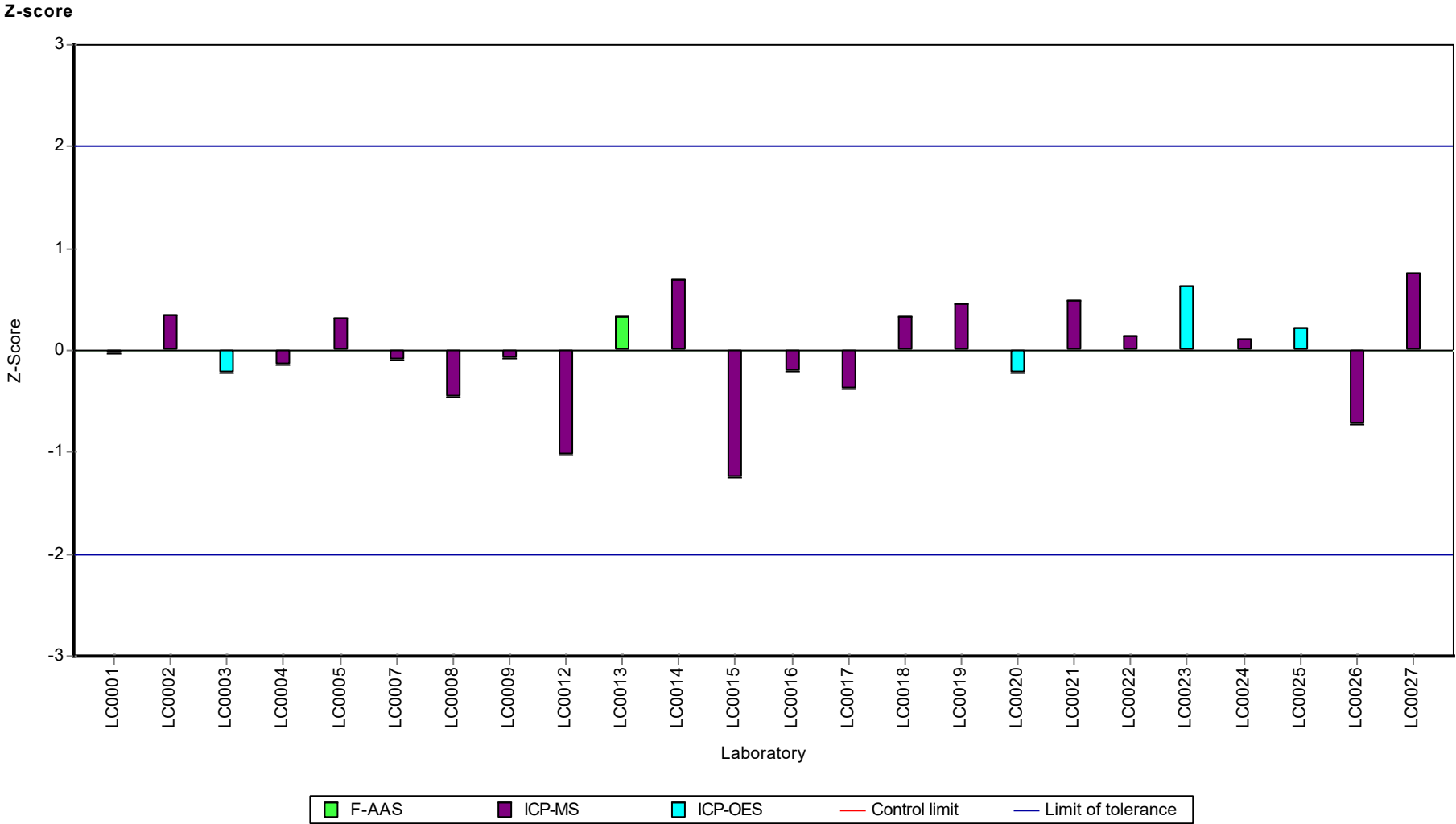


Recovery rate



Parameter oriented report Metals and trace elements M175

Sample: M175B, Parameter: Zinc



E8. Labororientierte Auswertung / Laboratory oriented report

Die Labororientierte Auswertung ist nach dem Laborcode sortiert.

The laboratory oriented report is sorted by laboratory code.

Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	73.6 ± 4.5	7.26	101	0.14
Arsenic	µg/l	3.46 ± 0.0848	3.43 ± 0.22	0.449	99.3	-0.06
Lead	µg/l	1.84 ± 0.0805	1.89 ± 0.1	0.184	103	0.30
Cadmium	µg/l	1.53 ± 0.0318	1.61 ± 0.083	0.153	105	0.52
Chromium	µg/l	1.23 ± 0.07	1.23 ± 0.15	0.16	100	0.02
Iron	µg/l	23.6 ± 1.46	22.7 ± 1.14	3.53	96.4	-0.24
Copper	µg/l	8.84 ± 0.148	9.41 ± 0.4	0.796	106	0.71
Manganese	µg/l	26.9 ± 0.565	27.4 ± 0.75	1.94	102	0.25
Nickel	µg/l	3.58 ± 0.0927	3.72 ± 0.22	0.43	104	0.32
Selenium	µg/l	3.37 ± 0.105	3.33 ± 0.37	0.405	98.8	-0.10
Uranium	µg/l	2.05 ± 0.0519	2.08 ± 0.11	0.135	101	0.20
Zinc	µg/l	342 ± 8.95	356 ± 21.5	30.8	104	0.47

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.58 ± 0.053	0.0801	101	0.09

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	621 ± 42	61.6	101	0.09
Arsenic	µg/l	10.2 ± 0.177	10.2 ± 0.41	1.33	99.9	-0.01
Lead	µg/l	17.7 ± 0.414	18 ± 0.76	1.77	102	0.17
Cadmium	µg/l	4.92 ± 0.0597	5.02 ± 0.22	0.492	102	0.20
Chromium	µg/l	30.7 ± 0.674	30.8 ± 0.61	2.61	100	0.04
Iron	µg/l	72.2 ± 1.46	73.9 ± 3.21	7.94	102	0.22
Copper	µg/l	41.7 ± 0.556	43 ± 2.5	3.75	103	0.35
Manganese	µg/l	59.9 ± 0.938	60.2 ± 1.33	4.31	100	0.06
Nickel	µg/l	14 ± 0.308	14.7 ± 0.5	1.68	105	0.40
Selenium	µg/l	13.1 ± 0.352	13.4 ± 0.9	1.57	103	0.22
Uranium	µg/l	1.35 ± 0.0379	1.35 ± 0.1	0.0893	99.8	-0.03

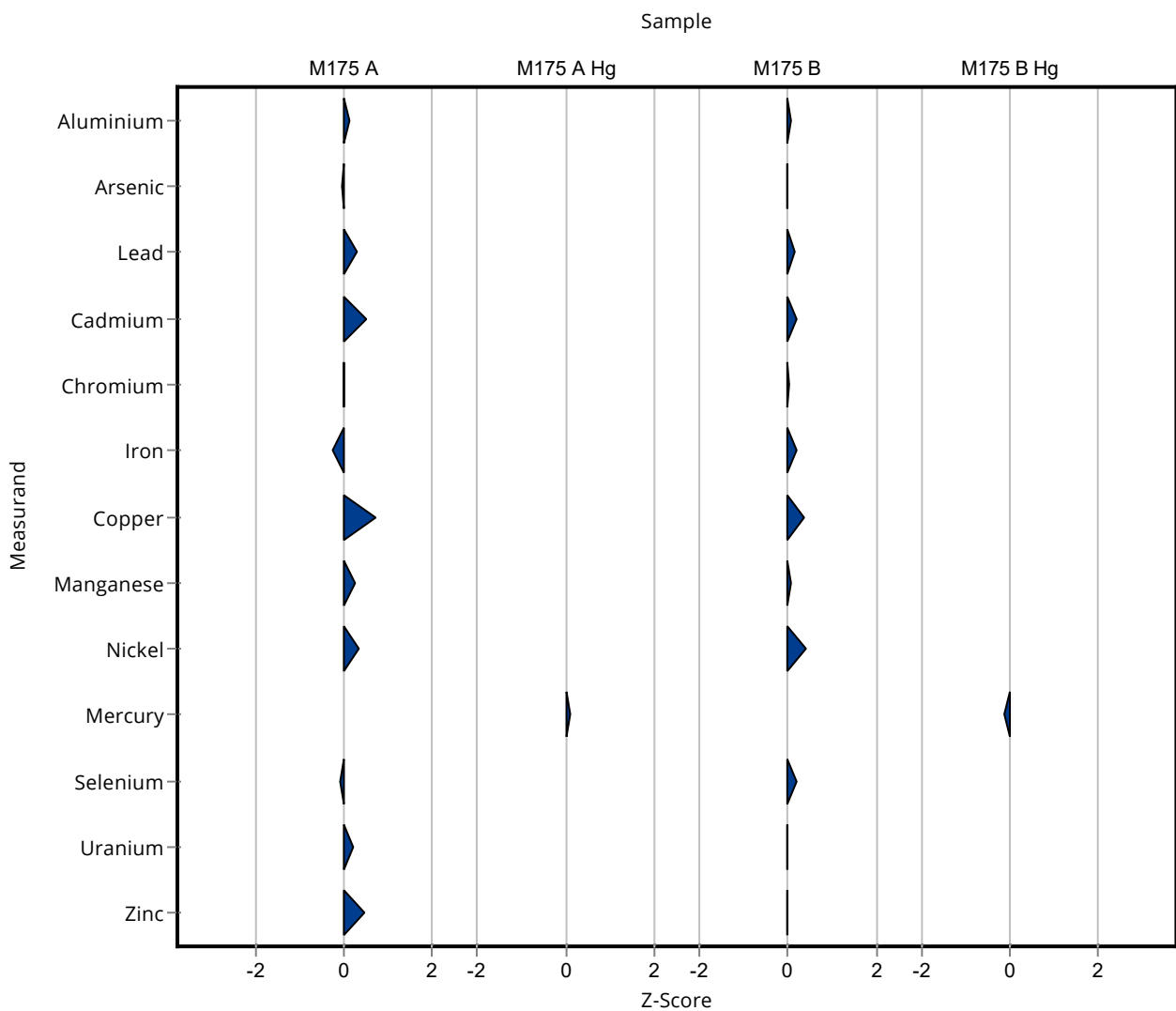
Summary of results Metals and trace elements M175

Labcode: LC0001

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1550 ± 94.8	140	99.7	-0.03

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.35 ± 0.2	0.334	98.5	-0.11



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	73.6 ± 4.5	7.26	101	0.11
Arsenic	µg/l	3.46 ± 0.0848	3.43 ± 0.22	0.449	99.3	-0.06
Lead	µg/l	1.84 ± 0.0805	1.89 ± 0.1	0.184	103	0.25
Cadmium	µg/l	1.53 ± 0.0318	1.61 ± 0.083	0.153	105	0.47
Chromium	µg/l	1.23 ± 0.07	1.23 ± 0.15	0.16	100	0.01
Iron	µg/l	23.6 ± 1.46	22.7 ± 1.14	3.53	96.4	-0.32
Copper	µg/l	8.84 ± 0.148	9.41 ± 0.4	0.796	106	0.70
Manganese	µg/l	26.9 ± 0.565	27.4 ± 0.75	1.94	102	0.30
Nickel	µg/l	3.58 ± 0.0927	3.72 ± 0.22	0.43	104	0.31
Selenium	µg/l	3.37 ± 0.105	3.33 ± 0.37	0.405	98.8	-0.06
Uranium	µg/l	2.05 ± 0.0519	2.08 ± 0.11	0.135	101	0.12
Zinc	µg/l	342 ± 8.95	356 ± 21.5	30.8	104	0.33

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.58 ± 0.053	0.0801	101	0.07

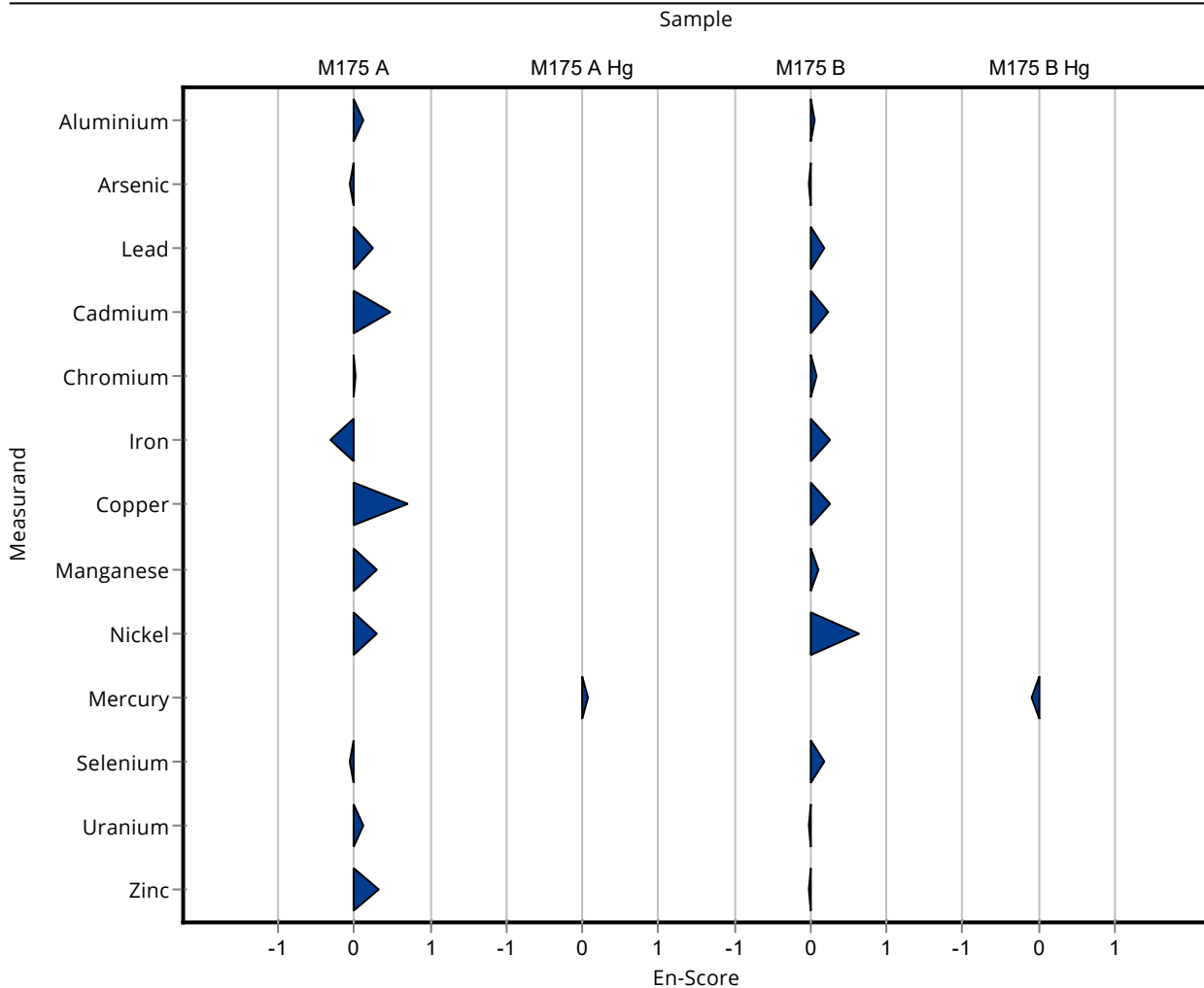
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	621 ± 42	61.6	101	0.06
Arsenic	µg/l	10.2 ± 0.177	10.2 ± 0.41	1.33	99.9	-0.02
Lead	µg/l	17.7 ± 0.414	18 ± 0.76	1.77	102	0.19
Cadmium	µg/l	4.92 ± 0.0597	5.02 ± 0.22	0.492	102	0.23
Chromium	µg/l	30.7 ± 0.674	30.8 ± 0.61	2.61	100	0.07

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	73.9 ± 3.21	7.94	102	0.26
Copper	µg/l	41.7 ± 0.556	43 ± 2.5	3.75	103	0.26
Manganese	µg/l	59.9 ± 0.938	60.2 ± 1.33	4.31	100	0.10
Nickel	µg/l	14 ± 0.308	14.7 ± 0.5	1.68	105	0.64
Selenium	µg/l	13.1 ± 0.352	13.4 ± 0.9	1.57	103	0.18
Uranium	µg/l	1.35 ± 0.0379	1.35 ± 0.1	0.0893	99.8	-0.01
Zinc	µg/l	1550 ± 29.4	1550 ± 94.8	140	99.7	-0.02

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.35 ± 0.2	0.334	98.5	-0.09



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	78.9 ± 11.8	7.26	109	0.87
Arsenic	µg/l	3.46 ± 0.0848	3.58 ± 0.36	0.449	104	0.28
Lead	µg/l	1.84 ± 0.0805	1.814 ± 0.181	0.184	98.8	-0.12
Cadmium	µg/l	1.53 ± 0.0318	1.474 ± 0.147	0.153	96.3	-0.37
Chromium	µg/l	1.23 ± 0.07	1.126 ± 0.113	0.16	91.8	-0.63
Iron	µg/l	23.6 ± 1.46	21.6 ± 2.2	3.53	91.7	-0.55
Copper	µg/l	8.84 ± 0.148	8.77 ± 0.88	0.796	99.2	-0.09
Manganese	µg/l	26.9 ± 0.565	27.4 ± 2.7	1.94	102	0.25
Nickel	µg/l	3.58 ± 0.0927	3.45 ± 0.34	0.43	96.3	-0.31
Selenium	µg/l	3.37 ± 0.105	3.15 ± 0.32	0.405	93.4	-0.55
Uranium	µg/l	2.05 ± 0.0519	2.13 ± 0.21	0.135	104	0.57
Zinc	µg/l	342 ± 8.95	324 ± 33	30.8	94.8	-0.57

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.568 ± 0.057	0.0801	99.2	-0.06

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	628 ± 94	61.6	102	0.20
Arsenic	µg/l	10.2 ± 0.177	10.44 ± 1.05	1.33	102	0.17
Lead	µg/l	17.7 ± 0.414	17.7 ± 1.8	1.77	100	0.00
Cadmium	µg/l	4.92 ± 0.0597	4.91 ± 0.49	0.492	99.8	-0.02
Chromium	µg/l	30.7 ± 0.674	31.46 ± 3.15	2.61	102	0.29
Iron	µg/l	72.2 ± 1.46	71.5 ± 7.2	7.94	99.1	-0.09
Copper	µg/l	41.7 ± 0.556	42.1 ± 4.2	3.75	101	0.11
Manganese	µg/l	59.9 ± 0.938	61 ± 6.1	4.31	102	0.25
Nickel	µg/l	14 ± 0.308	14.1 ± 1.4	1.68	100	0.04
Selenium	µg/l	13.1 ± 0.352	12.15 ± 1.22	1.57	93	-0.58
Uranium	µg/l	1.35 ± 0.0379	1.43 ± 0.14	0.0893	106	0.87

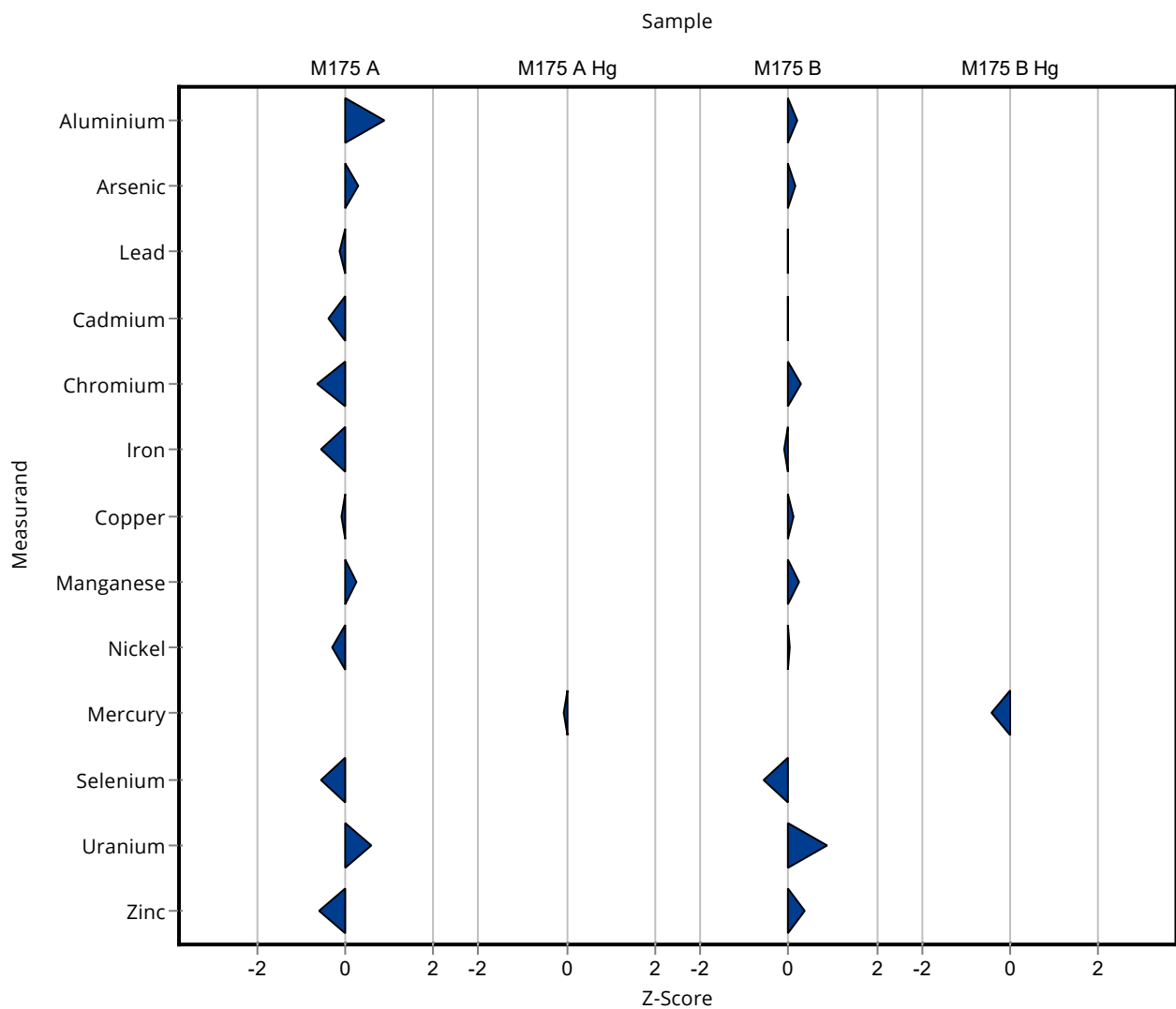
Summary of results Metals and trace elements M175

Labcode: LC0002

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1603 ± 160	140	103	0.35

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.24 ± 0.22	0.334	93.9	-0.44



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	78.9 ± 11.8	7.26	109	0.27
Arsenic	µg/l	3.46 ± 0.0848	3.58 ± 0.36	0.449	104	0.17
Lead	µg/l	1.84 ± 0.0805	1.814 ± 0.181	0.184	98.8	-0.06
Cadmium	µg/l	1.53 ± 0.0318	1.474 ± 0.147	0.153	96.3	-0.19
Chromium	µg/l	1.23 ± 0.07	1.126 ± 0.113	0.16	91.8	-0.43
Iron	µg/l	23.6 ± 1.46	21.6 ± 2.2	3.53	91.7	-0.42
Copper	µg/l	8.84 ± 0.148	8.77 ± 0.88	0.796	99.2	-0.04
Manganese	µg/l	26.9 ± 0.565	27.4 ± 2.7	1.94	102	0.09
Nickel	µg/l	3.58 ± 0.0927	3.45 ± 0.34	0.43	96.3	-0.19
Selenium	µg/l	3.37 ± 0.105	3.15 ± 0.32	0.405	93.4	-0.34
Uranium	µg/l	2.05 ± 0.0519	2.13 ± 0.21	0.135	104	0.18
Zinc	µg/l	342 ± 8.95	324 ± 33	30.8	94.8	-0.27

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.568 ± 0.057	0.0801	99.2	-0.04

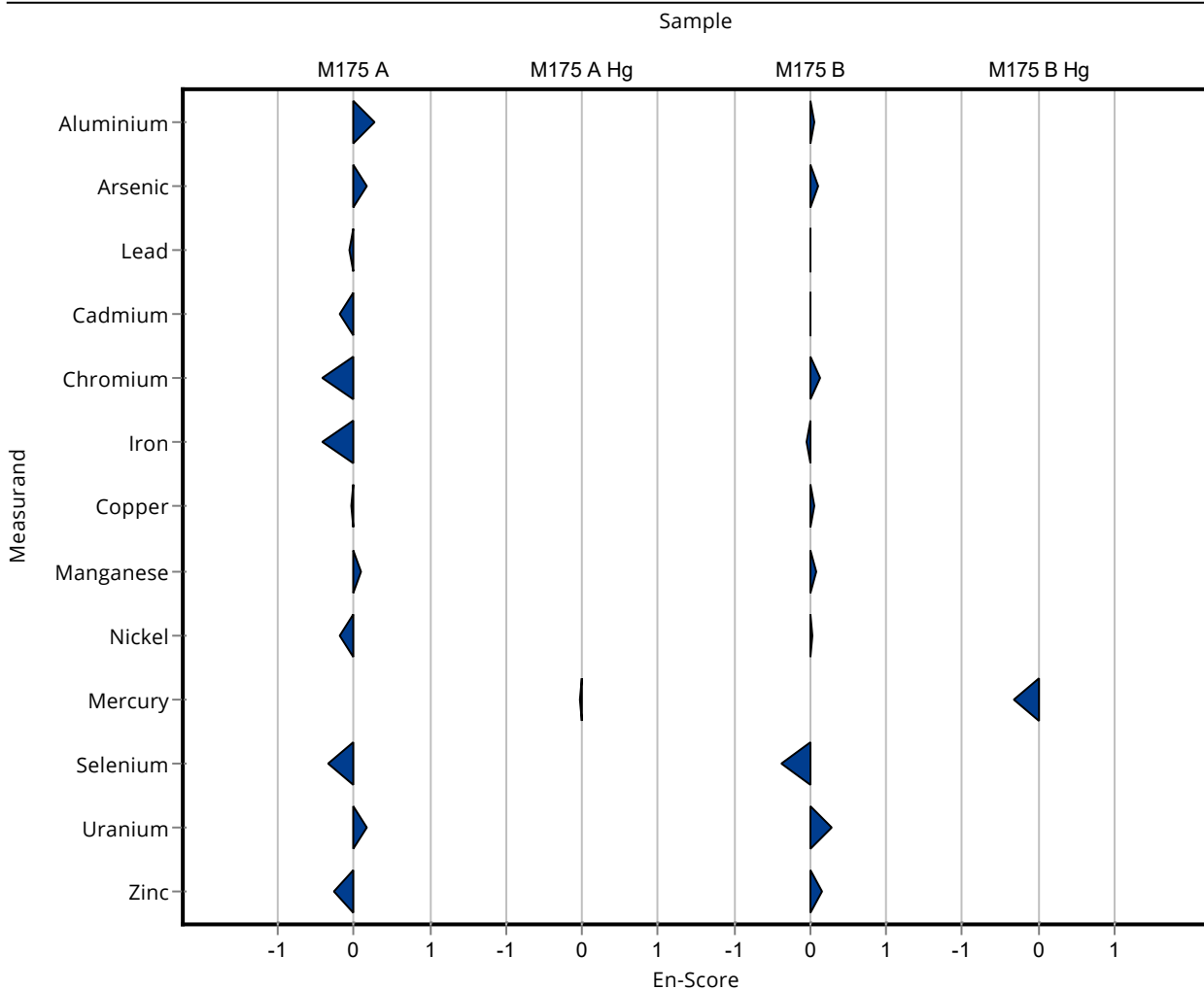
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	628 ± 94	61.6	102	0.06
Arsenic	µg/l	10.2 ± 0.177	10.44 ± 1.05	1.33	102	0.11
Lead	µg/l	17.7 ± 0.414	17.7 ± 1.8	1.77	100	0.00
Cadmium	µg/l	4.92 ± 0.0597	4.91 ± 0.49	0.492	99.8	-0.01
Chromium	µg/l	30.7 ± 0.674	31.46 ± 3.15	2.61	102	0.12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	71.5 ± 7.2	7.94	99.1	-0.05
Copper	µg/l	41.7 ± 0.556	42.1 ± 4.2	3.75	101	0.05
Manganese	µg/l	59.9 ± 0.938	61 ± 6.1	4.31	102	0.09
Nickel	µg/l	14 ± 0.308	14.1 ± 1.4	1.68	100	0.02
Selenium	µg/l	13.1 ± 0.352	12.15 ± 1.22	1.57	93	-0.37
Uranium	µg/l	1.35 ± 0.0379	1.43 ± 0.14	0.0893	106	0.27
Zinc	µg/l	1550 ± 29.4	1603 ± 160	140	103	0.15

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.24 ± 0.22	0.334	93.9	-0.33



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	74 ± 14.4	7.26	102	0.19
Arsenic	µg/l	3.46 ± 0.0848	3.54 ± 0.82	0.449	102	0.19
Lead	µg/l	1.84 ± 0.0805	1.91 ± 0.77	0.184	104	0.40
Cadmium	µg/l	1.53 ± 0.0318	1.63 ± 0.35	0.153	107	0.65
Chromium	µg/l	1.23 ± 0.07	1.03 ± 0.6	0.16	83.9	-1.24
Iron	µg/l	23.6 ± 1.46	21.7 ± 4.3	3.53	92.1	-0.53
Copper	µg/l	8.84 ± 0.148	9.08 ± 2.9	0.796	103	0.30
Manganese	µg/l	26.9 ± 0.565	- ± -	1.94	-	-
Nickel	µg/l	3.58 ± 0.0927	3.17 ± 0.97	0.43	88.5	-0.96
Selenium	µg/l	3.37 ± 0.105	3.44 ± 0.81	0.405	102	0.17
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	346 ± 39	30.8	101	0.14

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.65 ± 0.15	0.0801	114	0.97

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	634 ± 104	61.6	103	0.30
Arsenic	µg/l	10.2 ± 0.177	10.48 ± 2.01	1.33	103	0.20
Lead	µg/l	17.7 ± 0.414	18.33 ± 3.7	1.77	104	0.36
Cadmium	µg/l	4.92 ± 0.0597	5.09 ± 0.9	0.492	103	0.35
Chromium	µg/l	30.7 ± 0.674	31.8 ± 4.4	2.61	104	0.42
Iron	µg/l	72.2 ± 1.46	71.3 ± 9.5	7.94	98.8	-0.11
Copper	µg/l	41.7 ± 0.556	42.7 ± 6.5	3.75	102	0.27
Manganese	µg/l	59.9 ± 0.938	- ± -	4.31	-	-
Nickel	µg/l	14 ± 0.308	13.3 ± 2.9	1.68	94.8	-0.43
Selenium	µg/l	13.1 ± 0.352	13.03 ± 2.3	1.57	99.8	-0.02
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-

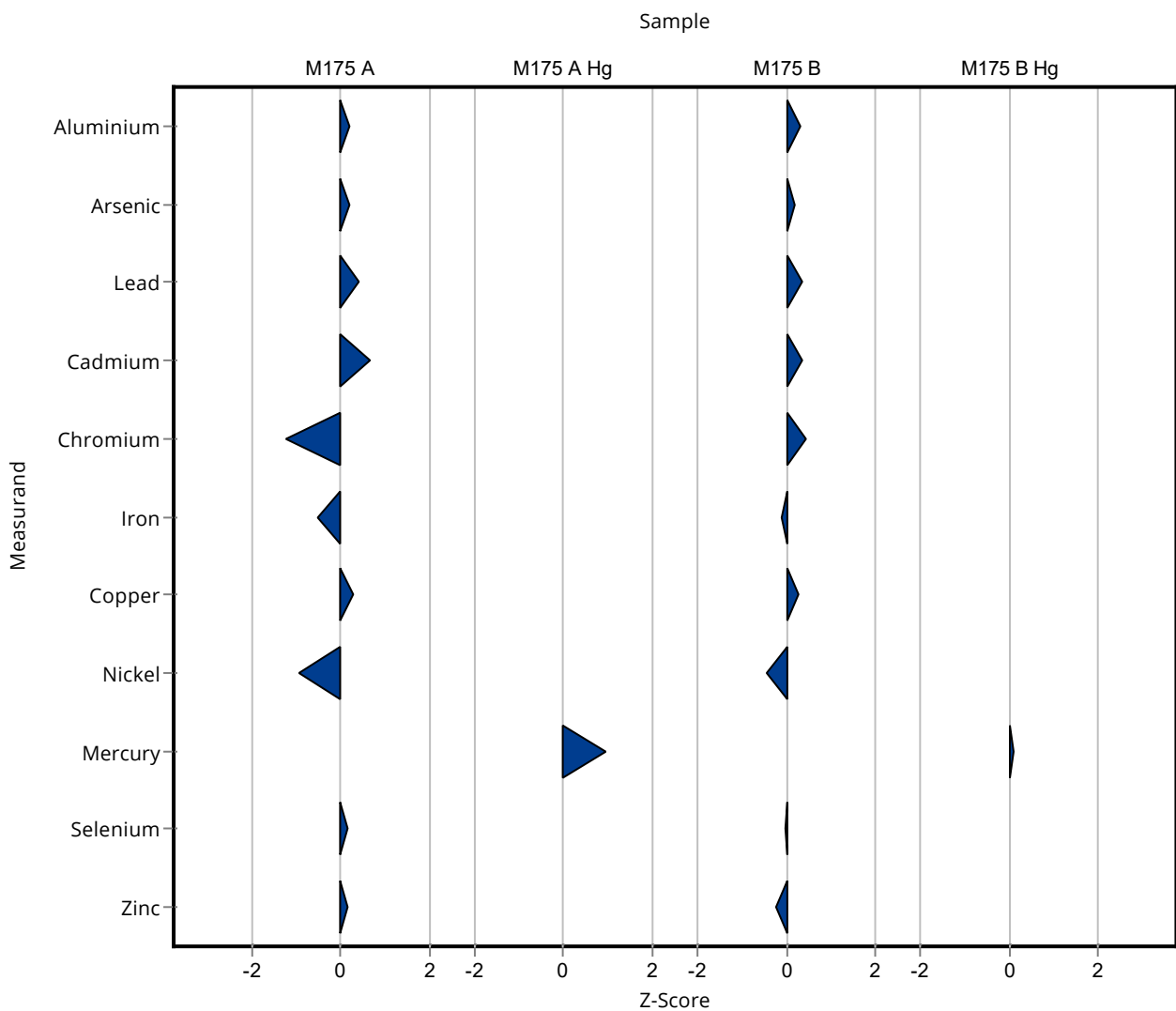
Summary of results Metals and trace elements M175

Labcode: LC0003

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1523 ± 162	140	98	-0.22

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.42 ± 0.4	0.334	101	0.10



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	74 ± 14.4	7.26	102	0.05
Arsenic	µg/l	3.46 ± 0.0848	3.54 ± 0.82	0.449	102	0.05
Lead	µg/l	1.84 ± 0.0805	1.91 ± 0.77	0.184	104	0.05
Cadmium	µg/l	1.53 ± 0.0318	1.63 ± 0.35	0.153	107	0.14
Chromium	µg/l	1.23 ± 0.07	1.03 ± 0.6	0.16	83.9	-0.16
Iron	µg/l	23.6 ± 1.46	21.7 ± 4.3	3.53	92.1	-0.21
Copper	µg/l	8.84 ± 0.148	9.08 ± 2.9	0.796	103	0.04
Manganese	µg/l	26.9 ± 0.565	- ± -	1.94	-	-
Nickel	µg/l	3.58 ± 0.0927	3.17 ± 0.97	0.43	88.5	-0.21
Selenium	µg/l	3.37 ± 0.105	3.44 ± 0.81	0.405	102	0.04
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	346 ± 39	30.8	101	0.06

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.65 ± 0.15	0.0801	114	0.26

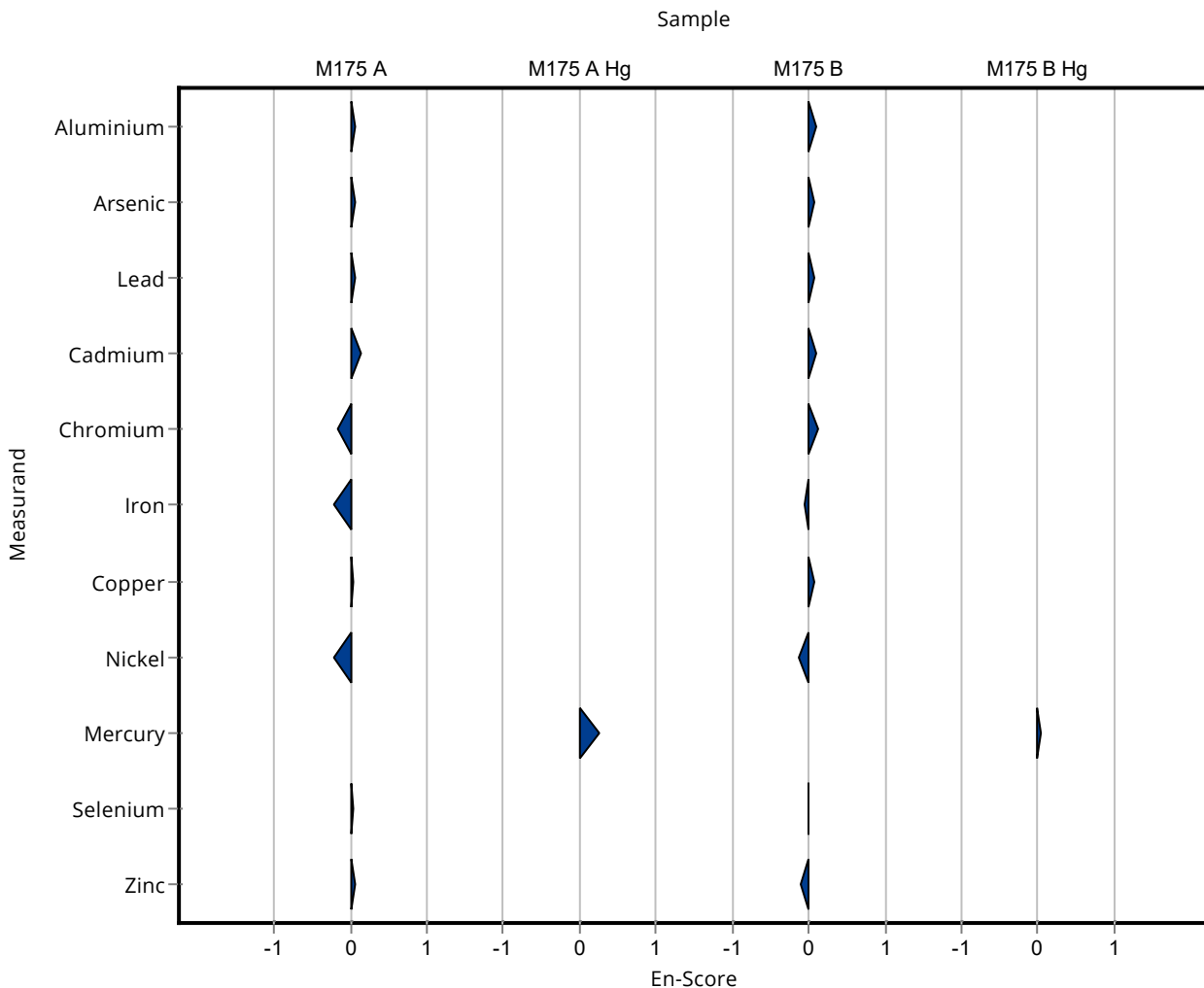
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	634 ± 104	61.6	103	0.09
Arsenic	µg/l	10.2 ± 0.177	10.48 ± 2.01	1.33	103	0.07
Lead	µg/l	17.7 ± 0.414	18.33 ± 3.7	1.77	104	0.09
Cadmium	µg/l	4.92 ± 0.0597	5.09 ± 0.9	0.492	103	0.09
Chromium	µg/l	30.7 ± 0.674	31.8 ± 4.4	2.61	104	0.12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	71.3 ± 9.5	7.94	98.8	-0.05
Copper	µg/l	41.7 ± 0.556	42.7 ± 6.5	3.75	102	0.08
Manganese	µg/l	59.9 ± 0.938	- ± -	4.31	-	-
Nickel	µg/l	14 ± 0.308	13.3 ± 2.9	1.68	94.8	-0.13
Selenium	µg/l	13.1 ± 0.352	13.03 ± 2.3	1.57	99.8	-0.01
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-
Zinc	µg/l	1550 ± 29.4	1523 ± 162	140	98	-0.10

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.42 ± 0.4	0.334	101	0.04



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	76.6 ± 11.5	7.26	106	0.55
Arsenic	µg/l	3.46 ± 0.0848	3.35 ± 0.5	0.449	96.9	-0.23
Lead	µg/l	1.84 ± 0.0805	2.08 ± 0.31	0.184	113	1.33
Cadmium	µg/l	1.53 ± 0.0318	1.43 ± 0.21	0.153	93.5	-0.65
Chromium	µg/l	1.23 ± 0.07	1.3 ± 0.19	0.16	106	0.46
Iron	µg/l	23.6 ± 1.46	25.5 ± 3.82	3.53	108	0.55
Copper	µg/l	8.84 ± 0.148	8.66 ± 1.3	0.796	97.9	-0.23
Manganese	µg/l	26.9 ± 0.565	28.4 ± 4.26	1.94	105	0.76
Nickel	µg/l	3.58 ± 0.0927	3.65 ± 0.55	0.43	102	0.16
Selenium	µg/l	3.37 ± 0.105	3.21 ± 0.48	0.405	95.2	-0.40
Uranium	µg/l	2.05 ± 0.0519	2.52 ± 0.38	0.135	123	3.45
Zinc	µg/l	342 ± 8.95	295 ± 44.3	30.8	86.3	-1.52

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.569 ± 0.086	0.0801	99.4	-0.04

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	643 ± 96.5	61.6	104	0.44
Arsenic	µg/l	10.2 ± 0.177	9.82 ± 1.47	1.33	96.1	-0.30
Lead	µg/l	17.7 ± 0.414	19.2 ± 2.88	1.77	109	0.85
Cadmium	µg/l	4.92 ± 0.0597	4.79 ± 0.72	0.492	97.4	-0.26
Chromium	µg/l	30.7 ± 0.674	32.5 ± 4.88	2.61	106	0.69
Iron	µg/l	72.2 ± 1.46	80.3 ± 12	7.94	111	1.02
Copper	µg/l	41.7 ± 0.556	41.5 ± 6.23	3.75	99.6	-0.05
Manganese	µg/l	59.9 ± 0.938	62.5 ± 9.38	4.31	104	0.60
Nickel	µg/l	14 ± 0.308	14.7 ± 2.2	1.68	105	0.40
Selenium	µg/l	13.1 ± 0.352	12.7 ± 1.91	1.57	97.2	-0.23
Uranium	µg/l	1.35 ± 0.0379	1.55 ± 0.23	0.0893	115	2.21

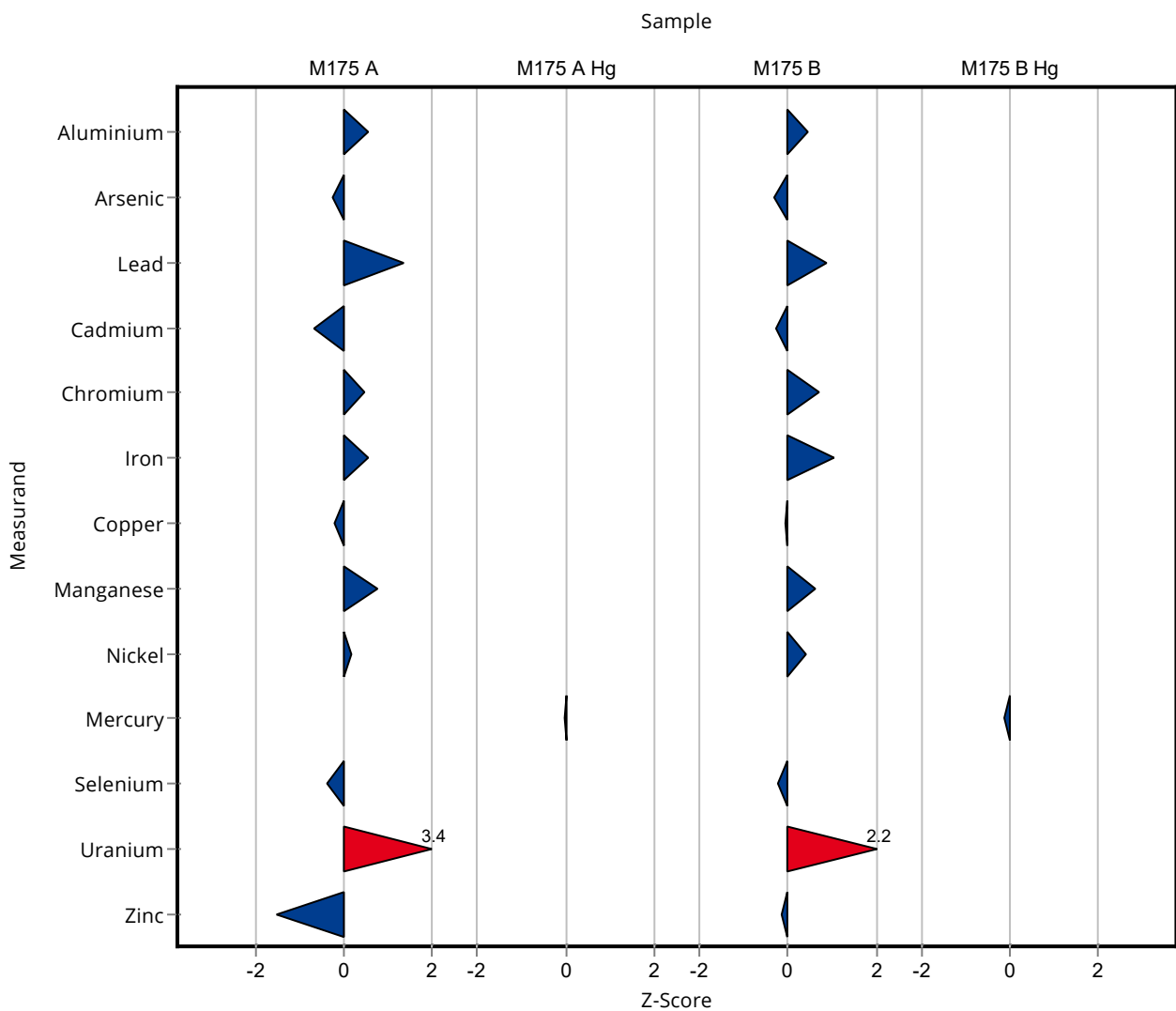
Summary of results Metals and trace elements M175

Labcode: LC0004

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1534 ± 230	140	98.7	-0.14

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.34 ± 0.35	0.334	98.1	-0.14



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	76.6 ± 11.5	7.26	106	0.17
Arsenic	µg/l	3.46 ± 0.0848	3.35 ± 0.5	0.449	96.9	-0.11
Lead	µg/l	1.84 ± 0.0805	2.08 ± 0.31	0.184	113	0.39
Cadmium	µg/l	1.53 ± 0.0318	1.43 ± 0.21	0.153	93.5	-0.24
Chromium	µg/l	1.23 ± 0.07	1.3 ± 0.19	0.16	106	0.19
Iron	µg/l	23.6 ± 1.46	25.5 ± 3.82	3.53	108	0.25
Copper	µg/l	8.84 ± 0.148	8.66 ± 1.3	0.796	97.9	-0.07
Manganese	µg/l	26.9 ± 0.565	28.4 ± 4.26	1.94	105	0.17
Nickel	µg/l	3.58 ± 0.0927	3.65 ± 0.55	0.43	102	0.06
Selenium	µg/l	3.37 ± 0.105	3.21 ± 0.48	0.405	95.2	-0.17
Uranium	µg/l	2.05 ± 0.0519	2.52 ± 0.38	0.135	123	0.61
Zinc	µg/l	342 ± 8.95	295 ± 44.3	30.8	86.3	-0.52

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.569 ± 0.086	0.0801	99.4	-0.02

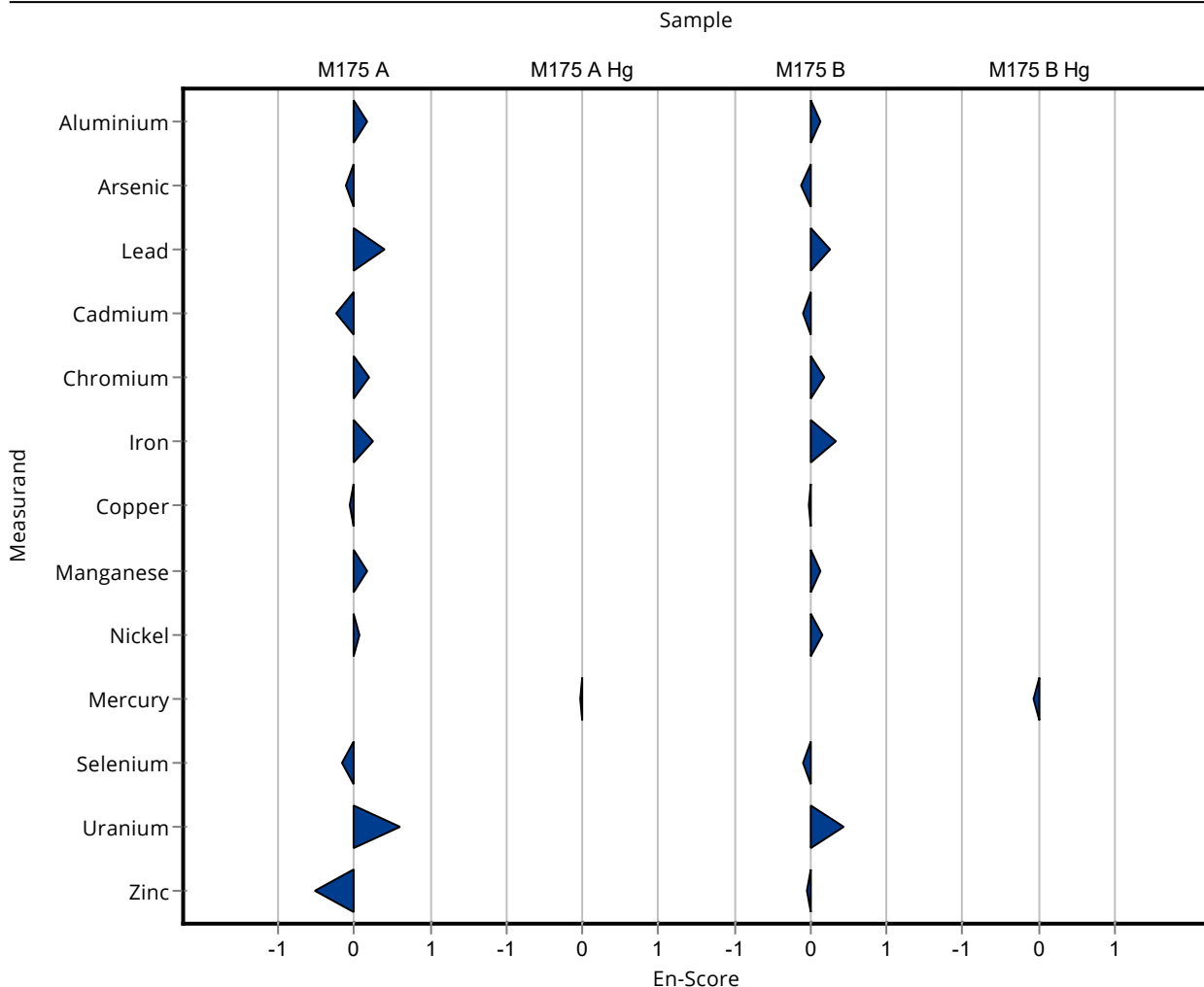
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	643 ± 96.5	61.6	104	0.14
Arsenic	µg/l	10.2 ± 0.177	9.82 ± 1.47	1.33	96.1	-0.13
Lead	µg/l	17.7 ± 0.414	19.2 ± 2.88	1.77	109	0.26
Cadmium	µg/l	4.92 ± 0.0597	4.79 ± 0.72	0.492	97.4	-0.09
Chromium	µg/l	30.7 ± 0.674	32.5 ± 4.88	2.61	106	0.18

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	80.3 ± 12	7.94	111	0.34
Copper	µg/l	41.7 ± 0.556	41.5 ± 6.23	3.75	99.6	-0.01
Manganese	µg/l	59.9 ± 0.938	62.5 ± 9.38	4.31	104	0.14
Nickel	µg/l	14 ± 0.308	14.7 ± 2.2	1.68	105	0.15
Selenium	µg/l	13.1 ± 0.352	12.7 ± 1.91	1.57	97.2	-0.09
Uranium	µg/l	1.35 ± 0.0379	1.55 ± 0.23	0.0893	115	0.43
Zinc	µg/l	1550 ± 29.4	1534 ± 230	140	98.7	-0.04

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.34 ± 0.35	0.334	98.1	-0.07



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	72.785 ± 3.65	7.26	100	0.03
Arsenic	µg/l	3.46 ± 0.0848	3.505 ± 0.25	0.449	101	0.11
Lead	µg/l	1.84 ± 0.0805	1.838 ± 0.09	0.184	100	0.01
Cadmium	µg/l	1.53 ± 0.0318	1.541 ± 0.07	0.153	101	0.07
Chromium	µg/l	1.23 ± 0.07	1.191 ± 0.06	0.16	97.1	-0.23
Iron	µg/l	23.6 ± 1.46	22.048 ± 0.96	3.53	93.6	-0.43
Copper	µg/l	8.84 ± 0.148	9.335 ± 0.53	0.796	106	0.62
Manganese	µg/l	26.9 ± 0.565	28.573 ± 1.14	1.94	106	0.85
Nickel	µg/l	3.58 ± 0.0927	3.717 ± 0.19	0.43	104	0.32
Selenium	µg/l	3.37 ± 0.105	3.517 ± 0.16	0.405	104	0.36
Uranium	µg/l	2.05 ± 0.0519	2.035 ± 0.08	0.135	99.1	-0.13
Zinc	µg/l	342 ± 8.95	358.567 ± 15.45	30.8	105	0.55

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	609.67 ± 30.61	61.6	99	-0.10
Arsenic	µg/l	10.2 ± 0.177	10.353 ± 0.74	1.33	101	0.10
Lead	µg/l	17.7 ± 0.414	18.031 ± 0.84	1.77	102	0.19
Cadmium	µg/l	4.92 ± 0.0597	4.886 ± 0.23	0.492	99.3	-0.07
Chromium	µg/l	30.7 ± 0.674	32.103 ± 1.64	2.61	105	0.53
Iron	µg/l	72.2 ± 1.46	73.861 ± 3.22	7.94	102	0.21
Copper	µg/l	41.7 ± 0.556	44.45 ± 2.52	3.75	107	0.74
Manganese	µg/l	59.9 ± 0.938	62.216 ± 2.49	4.31	104	0.53
Nickel	µg/l	14 ± 0.308	14.852 ± 0.75	1.68	106	0.49
Selenium	µg/l	13.1 ± 0.352	13.354 ± 0.59	1.57	102	0.19
Uranium	µg/l	1.35 ± 0.0379	1.34 ± 0.05	0.0893	99.1	-0.14

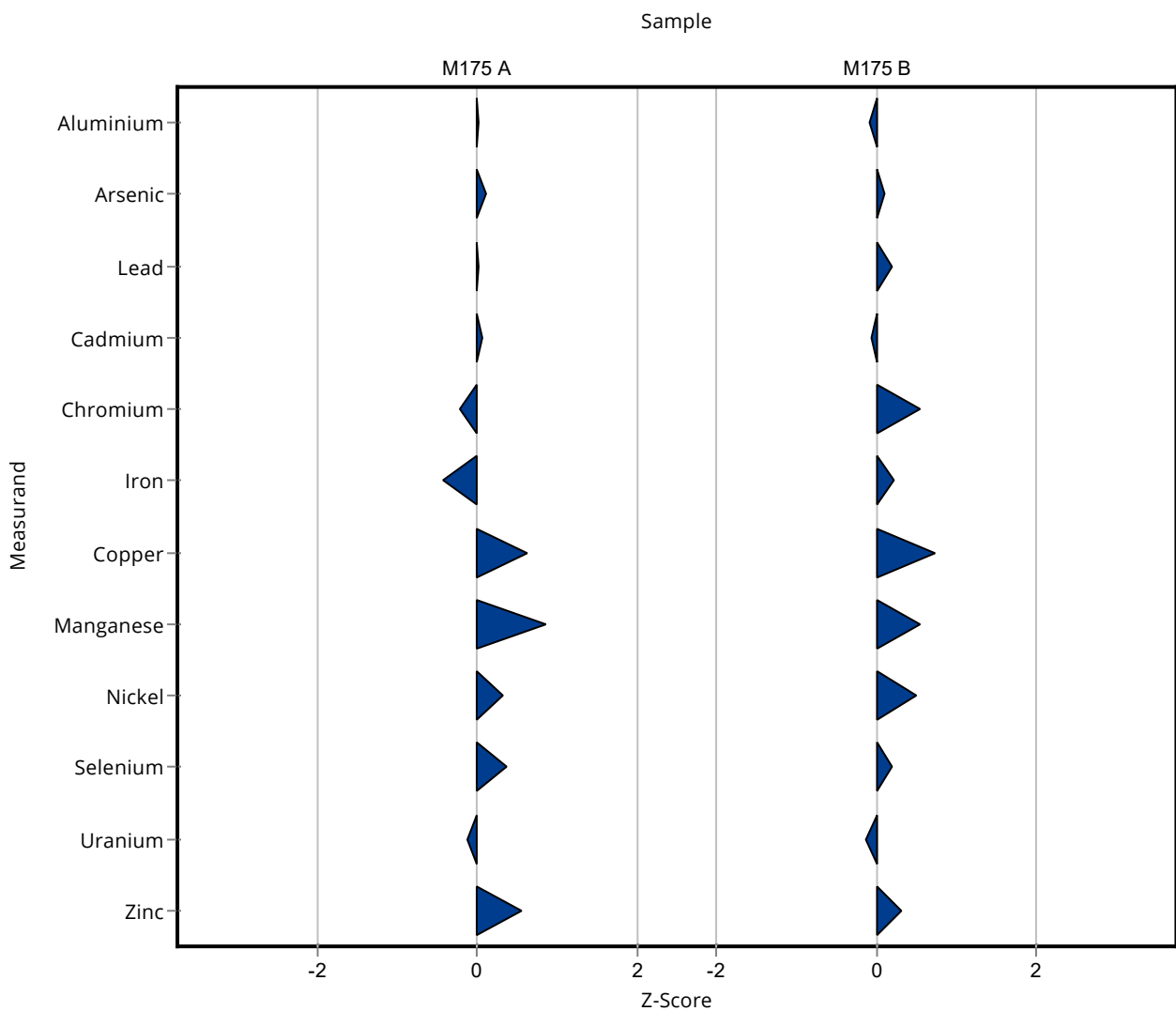
Summary of results Metals and trace elements M175

Labcode: LC0005

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1598.553 ± 68.9	140	103	0.32

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	72.785 ± 3.65	7.26	100	0.03
Arsenic	µg/l	3.46 ± 0.0848	3.505 ± 0.25	0.449	101	0.10
Lead	µg/l	1.84 ± 0.0805	1.838 ± 0.09	0.184	100	0.01
Cadmium	µg/l	1.53 ± 0.0318	1.541 ± 0.07	0.153	101	0.08
Chromium	µg/l	1.23 ± 0.07	1.191 ± 0.06	0.16	97.1	-0.26
Iron	µg/l	23.6 ± 1.46	22.048 ± 0.96	3.53	93.6	-0.62
Copper	µg/l	8.84 ± 0.148	9.335 ± 0.53	0.796	106	0.46
Manganese	µg/l	26.9 ± 0.565	28.573 ± 1.14	1.94	106	0.70
Nickel	µg/l	3.58 ± 0.0927	3.717 ± 0.19	0.43	104	0.35
Selenium	µg/l	3.37 ± 0.105	3.517 ± 0.16	0.405	104	0.43
Uranium	µg/l	2.05 ± 0.0519	2.035 ± 0.08	0.135	99.1	-0.11
Zinc	µg/l	342 ± 8.95	358.567 ± 15.45	30.8	105	0.53

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

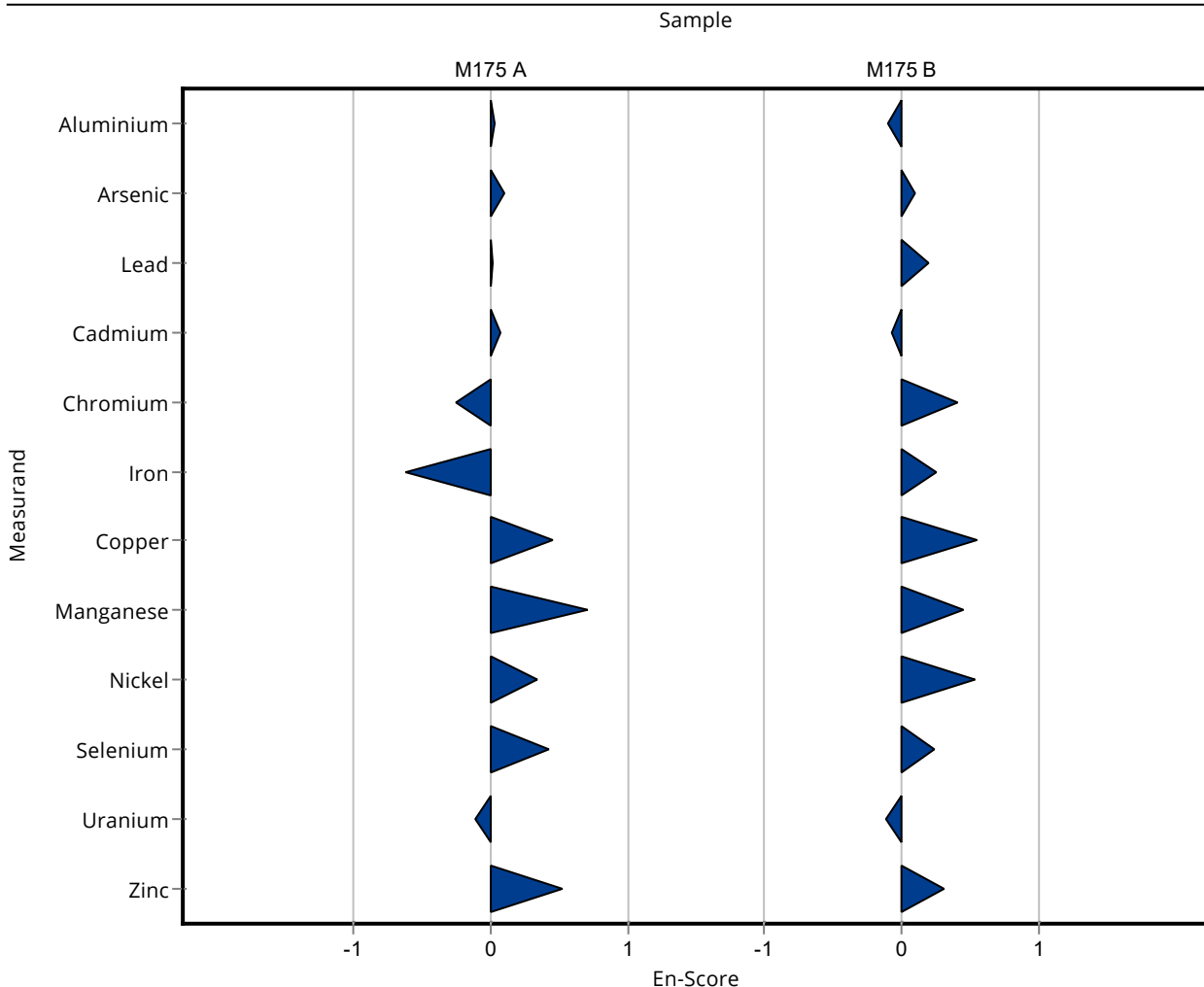
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	609.67 ± 30.61	61.6	99	-0.10
Arsenic	µg/l	10.2 ± 0.177	10.353 ± 0.74	1.33	101	0.09
Lead	µg/l	17.7 ± 0.414	18.031 ± 0.84	1.77	102	0.19
Cadmium	µg/l	4.92 ± 0.0597	4.886 ± 0.23	0.492	99.3	-0.07
Chromium	µg/l	30.7 ± 0.674	32.103 ± 1.64	2.61	105	0.42

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	73.861 ± 3.22	7.94	102	0.25
Copper	µg/l	41.7 ± 0.556	44.45 ± 2.52	3.75	107	0.55
Manganese	µg/l	59.9 ± 0.938	62.216 ± 2.49	4.31	104	0.45
Nickel	µg/l	14 ± 0.308	14.852 ± 0.75	1.68	106	0.54
Selenium	µg/l	13.1 ± 0.352	13.354 ± 0.59	1.57	102	0.24
Uranium	µg/l	1.35 ± 0.0379	1.34 ± 0.05	0.0893	99.1	-0.12
Zinc	µg/l	1550 ± 29.4	1598.553 ± 68.9	140	103	0.32

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	54.5 ± 3.86	7.26	75.1	-2.49
Arsenic	µg/l	3.46 ± 0.0848	- ± -	0.449	-	-
Lead	µg/l	1.84 ± 0.0805	- ± -	0.184	-	-
Cadmium	µg/l	1.53 ± 0.0318	- ± -	0.153	-	-
Chromium	µg/l	1.23 ± 0.07	- ± -	0.16	-	-
Iron	µg/l	23.6 ± 1.46	60 ± 3.88	3.53	255	10.31
Copper	µg/l	8.84 ± 0.148	- ± -	0.796	-	-
Manganese	µg/l	26.9 ± 0.565	38 ± 2.76	1.94	141	5.72
Nickel	µg/l	3.58 ± 0.0927	- ± -	0.43	-	-
Selenium	µg/l	3.37 ± 0.105	- ± -	0.405	-	-
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	- ± -	30.8	-	-

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	594.5 ± 42.1	61.6	96.5	-0.35
Arsenic	µg/l	10.2 ± 0.177	- ± -	1.33	-	-
Lead	µg/l	17.7 ± 0.414	- ± -	1.77	-	-
Cadmium	µg/l	4.92 ± 0.0597	- ± -	0.492	-	-
Chromium	µg/l	30.7 ± 0.674	- ± -	2.61	-	-
Iron	µg/l	72.2 ± 1.46	116 ± 7.5	7.94	161	5.52
Copper	µg/l	41.7 ± 0.556	- ± -	3.75	-	-
Manganese	µg/l	59.9 ± 0.938	77 ± 5.62	4.31	128	3.96
Nickel	µg/l	14 ± 0.308	- ± -	1.68	-	-
Selenium	µg/l	13.1 ± 0.352	- ± -	1.57	-	-
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-

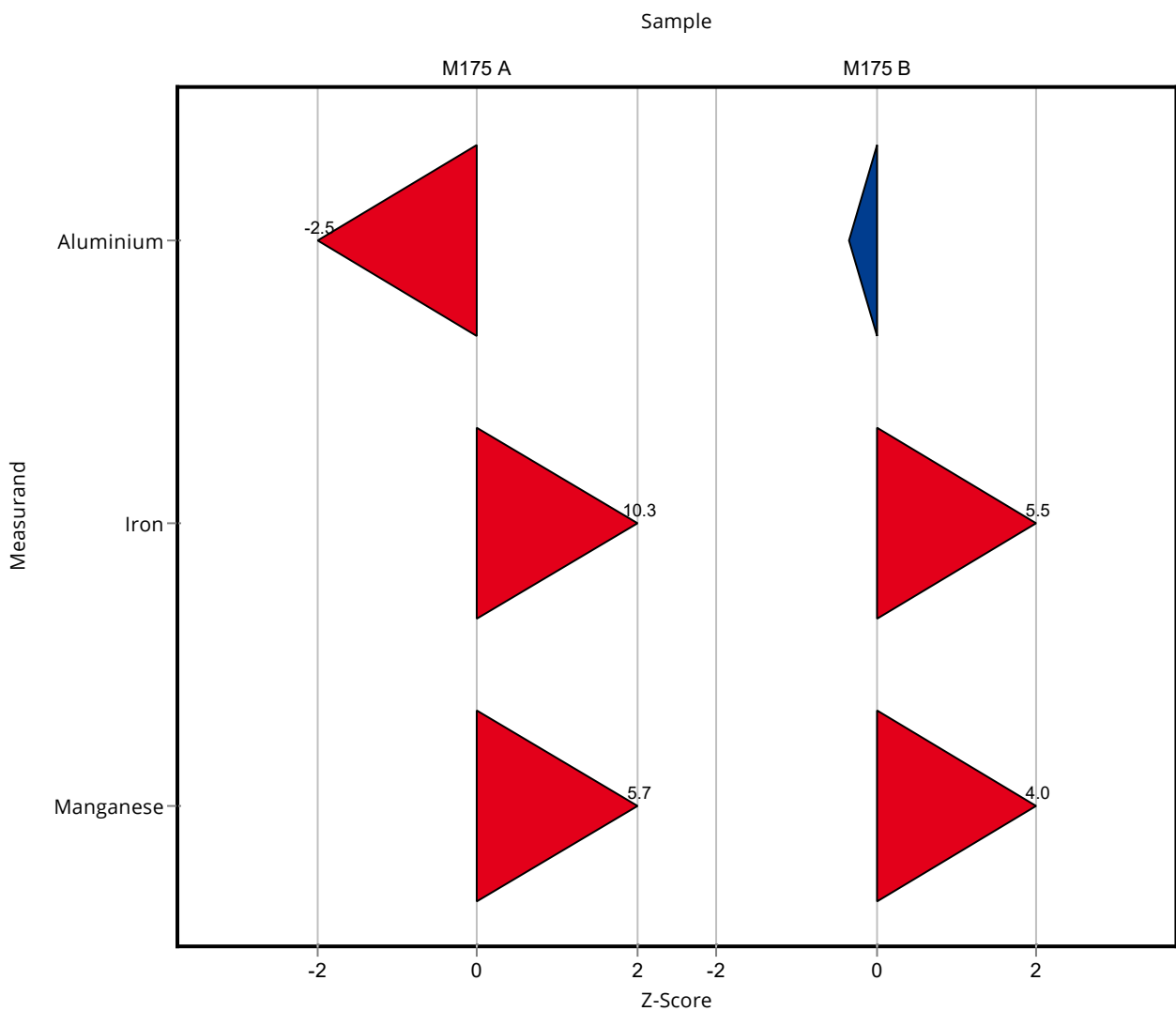
Summary of results Metals and trace elements M175

Labcode: LC0006

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	- ± -	140	-	-

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	54.5 ± 3.86	7.26	75.1	-2.26
Arsenic	µg/l	3.46 ± 0.0848	- ± -	0.449	-	-
Lead	µg/l	1.84 ± 0.0805	- ± -	0.184	-	-
Cadmium	µg/l	1.53 ± 0.0318	- ± -	0.153	-	-
Chromium	µg/l	1.23 ± 0.07	- ± -	0.16	-	-
Iron	µg/l	23.6 ± 1.46	60 ± 3.88	3.53	255	4.61
Copper	µg/l	8.84 ± 0.148	- ± -	0.796	-	-
Manganese	µg/l	26.9 ± 0.565	38 ± 2.76	1.94	141	2.00
Nickel	µg/l	3.58 ± 0.0927	- ± -	0.43	-	-
Selenium	µg/l	3.37 ± 0.105	- ± -	0.405	-	-
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	- ± -	30.8	-	-

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

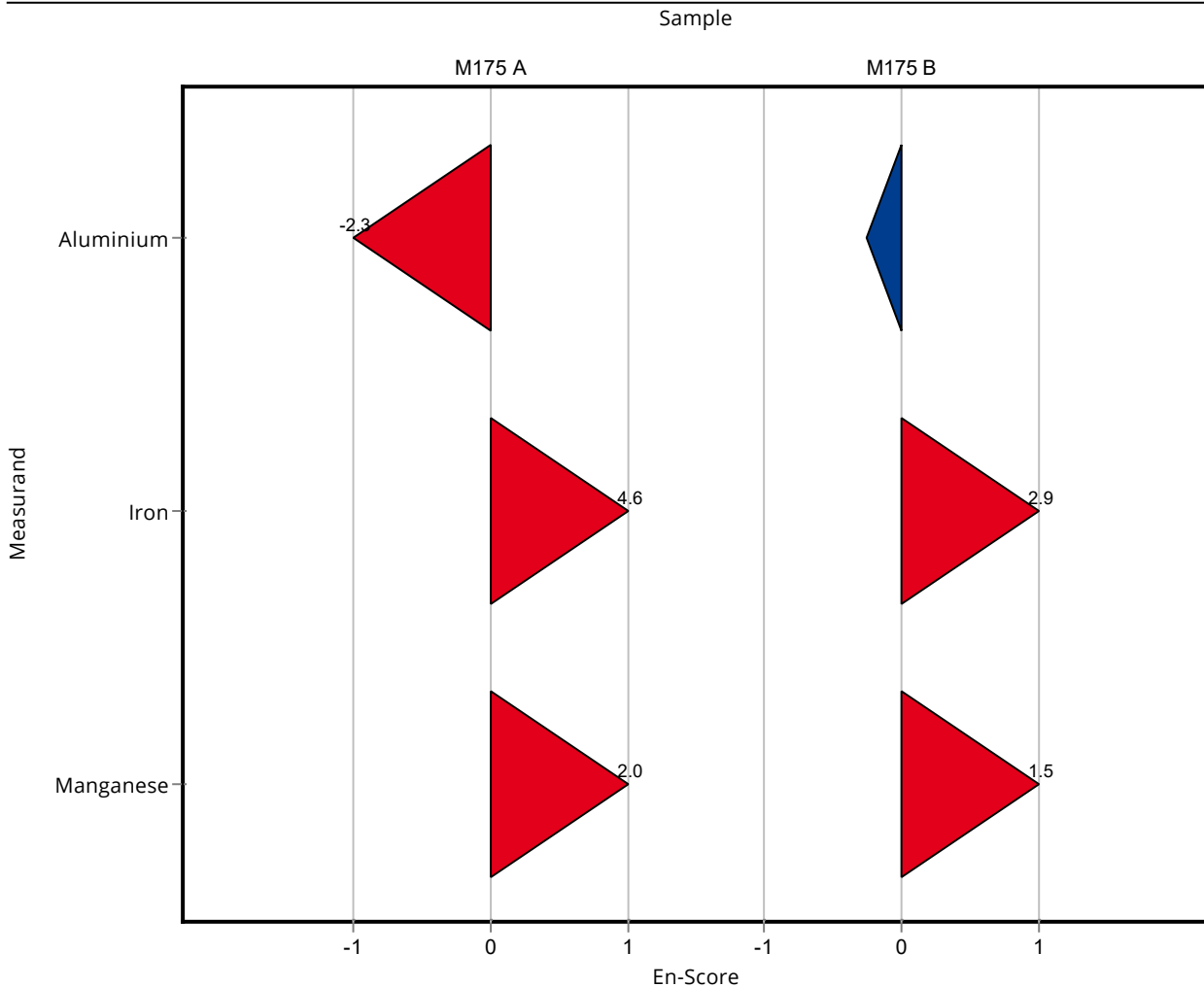
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	594.5 ± 42.1	61.6	96.5	-0.25
Arsenic	µg/l	10.2 ± 0.177	- ± -	1.33	-	-
Lead	µg/l	17.7 ± 0.414	- ± -	1.77	-	-
Cadmium	µg/l	4.92 ± 0.0597	- ± -	0.492	-	-
Chromium	µg/l	30.7 ± 0.674	- ± -	2.61	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	116 ± 7.5	7.94	161	2.91
Copper	µg/l	41.7 ± 0.556	- ± -	3.75	-	-
Manganese	µg/l	59.9 ± 0.938	77 ± 5.62	4.31	128	1.51
Nickel	µg/l	14 ± 0.308	- ± -	1.68	-	-
Selenium	µg/l	13.1 ± 0.352	- ± -	1.57	-	-
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-
Zinc	µg/l	1550 ± 29.4	- ± -	140	-	-

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	74.409 ± 9.23	7.26	103	0.25
Arsenic	µg/l	3.46 ± 0.0848	3.177 ± 0.37	0.449	91.9	-0.62
Lead	µg/l	1.84 ± 0.0805	1.924 ± 0.19	0.184	105	0.48
Cadmium	µg/l	1.53 ± 0.0318	1.521 ± 0.18	0.153	99.4	-0.06
Chromium	µg/l	1.23 ± 0.07	1.187 ± 0.15	0.16	96.7	-0.25
Iron	µg/l	23.6 ± 1.46	25.282 ± 3.24	3.53	107	0.49
Copper	µg/l	8.84 ± 0.148	9.015 ± 0.94	0.796	102	0.22
Manganese	µg/l	26.9 ± 0.565	27.484 ± 3.11	1.94	102	0.29
Nickel	µg/l	3.58 ± 0.0927	3.449 ± 0.32	0.43	96.3	-0.31
Selenium	µg/l	3.37 ± 0.105	3.284 ± 0.52	0.405	97.4	-0.22
Uranium	µg/l	2.05 ± 0.0519	2.105 ± 0.19	0.135	103	0.38
Zinc	µg/l	342 ± 8.95	343.62 ± 43.7	30.8	101	0.06

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.549 ± 0.069	0.0801	95.9	-0.29

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	634.36 ± 78.7	61.6	103	0.30
Arsenic	µg/l	10.2 ± 0.177	9.477 ± 1.1	1.33	92.8	-0.55
Lead	µg/l	17.7 ± 0.414	18.596 ± 1.8	1.77	105	0.51
Cadmium	µg/l	4.92 ± 0.0597	4.855 ± 0.58	0.492	98.7	-0.13
Chromium	µg/l	30.7 ± 0.674	30.609 ± 3.75	2.61	99.7	-0.04
Iron	µg/l	72.2 ± 1.46	75.93 ± 10.3	7.94	105	0.47
Copper	µg/l	41.7 ± 0.556	42.87 ± 4.47	3.75	103	0.32
Manganese	µg/l	59.9 ± 0.938	60.11 ± 6.79	4.31	100	0.04
Nickel	µg/l	14 ± 0.308	14.74 ± 1.36	1.68	105	0.42
Selenium	µg/l	13.1 ± 0.352	12.379 ± 1.98	1.57	94.8	-0.43
Uranium	µg/l	1.35 ± 0.0379	1.382 ± 0.13	0.0893	102	0.33

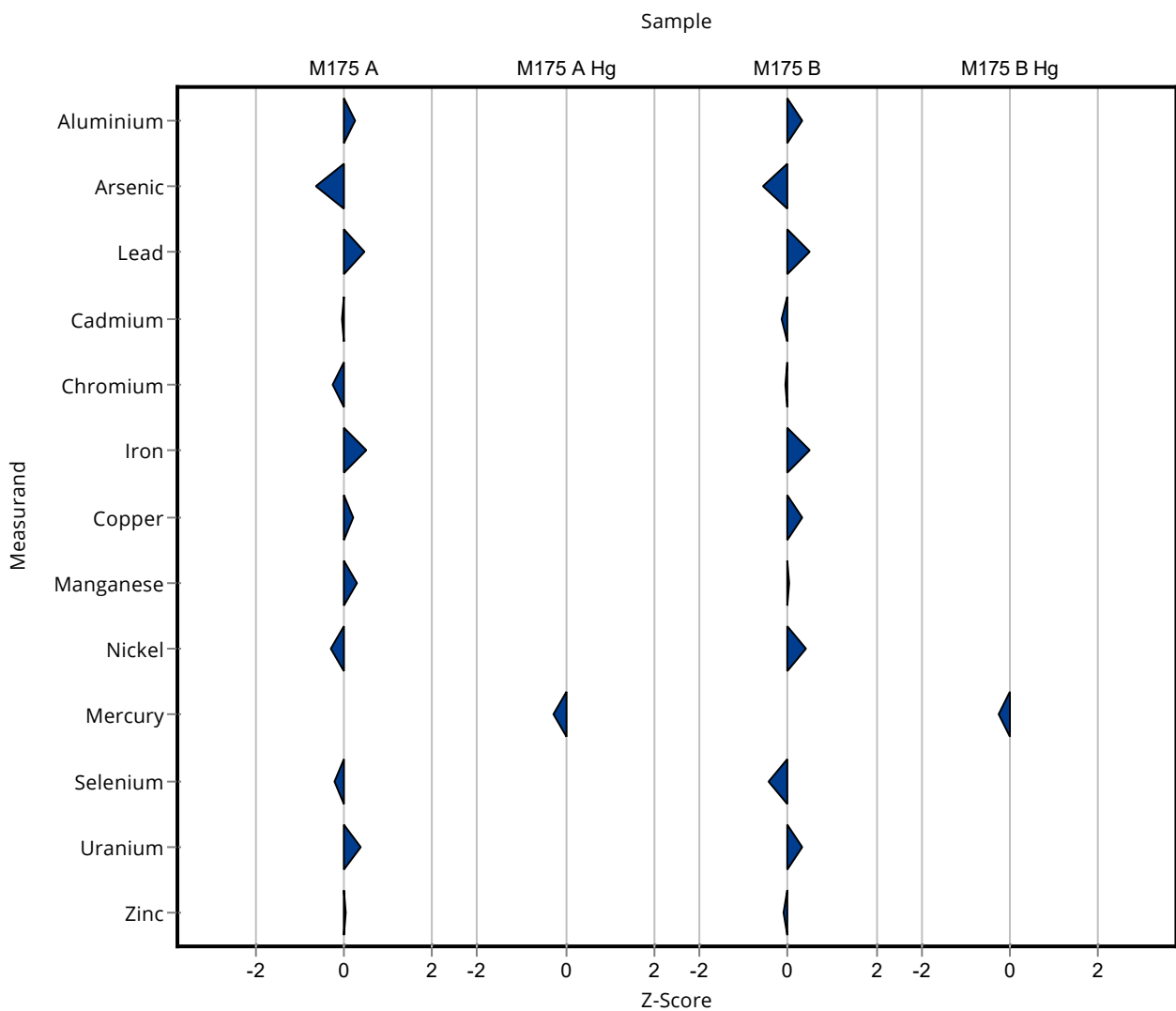
Summary of results Metals and trace elements M175

Labcode: LC0007

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1541.8 ± 196	140	99.2	-0.09

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.301 ± 0.29	0.334	96.4	-0.26



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	74.409 ± 9.23	7.26	103	0.10
Arsenic	µg/l	3.46 ± 0.0848	3.177 ± 0.37	0.449	91.9	-0.37
Lead	µg/l	1.84 ± 0.0805	1.924 ± 0.19	0.184	105	0.23
Cadmium	µg/l	1.53 ± 0.0318	1.521 ± 0.18	0.153	99.4	-0.03
Chromium	µg/l	1.23 ± 0.07	1.187 ± 0.15	0.16	96.7	-0.13
Iron	µg/l	23.6 ± 1.46	25.282 ± 3.24	3.53	107	0.26
Copper	µg/l	8.84 ± 0.148	9.015 ± 0.94	0.796	102	0.09
Manganese	µg/l	26.9 ± 0.565	27.484 ± 3.11	1.94	102	0.09
Nickel	µg/l	3.58 ± 0.0927	3.449 ± 0.32	0.43	96.3	-0.21
Selenium	µg/l	3.37 ± 0.105	3.284 ± 0.52	0.405	97.4	-0.08
Uranium	µg/l	2.05 ± 0.0519	2.105 ± 0.19	0.135	103	0.14
Zinc	µg/l	342 ± 8.95	343.62 ± 43.7	30.8	101	0.02

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.549 ± 0.069	0.0801	95.9	-0.17

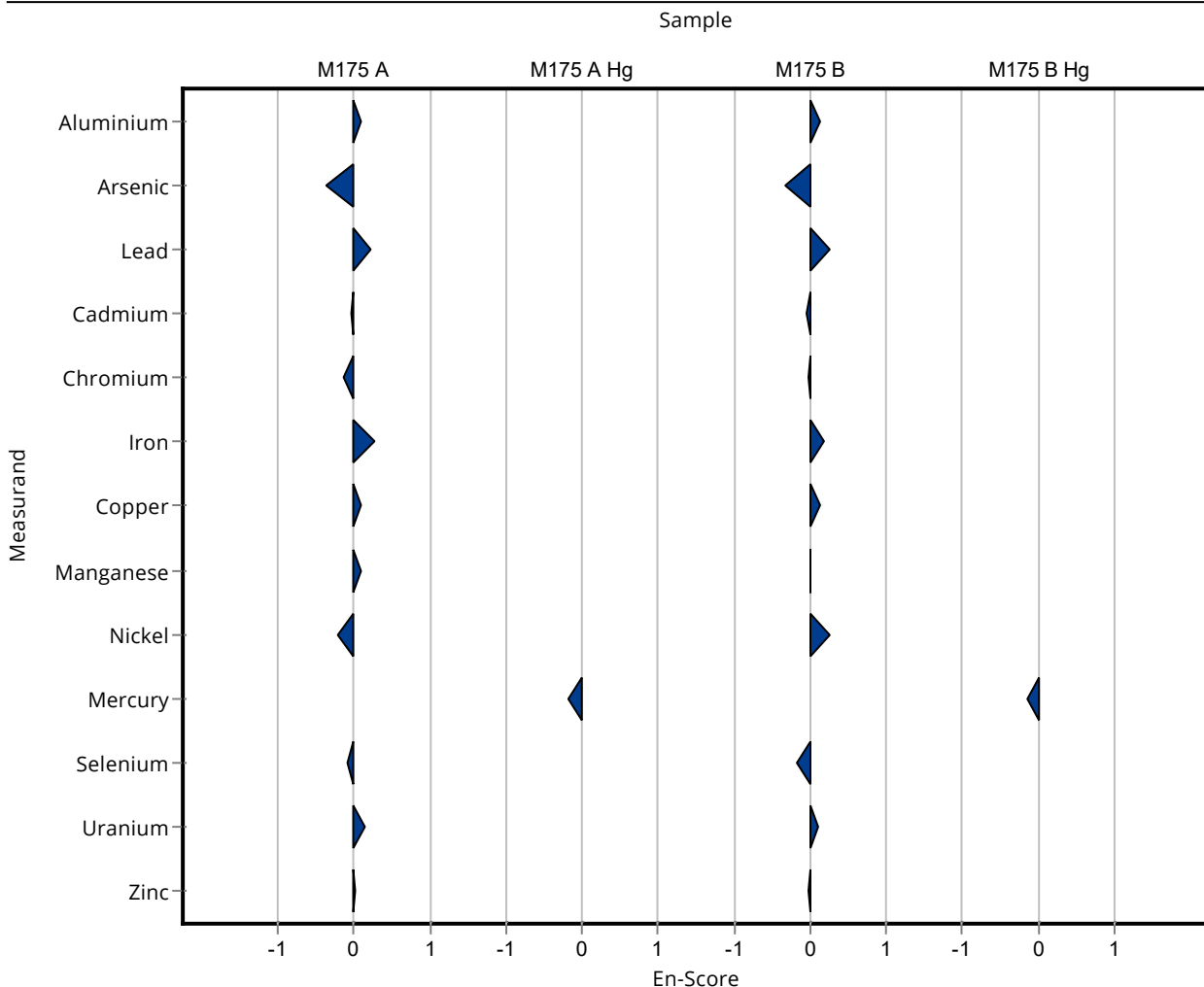
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	634.36 ± 78.7	61.6	103	0.12
Arsenic	µg/l	10.2 ± 0.177	9.477 ± 1.1	1.33	92.8	-0.33
Lead	µg/l	17.7 ± 0.414	18.596 ± 1.8	1.77	105	0.25
Cadmium	µg/l	4.92 ± 0.0597	4.855 ± 0.58	0.492	98.7	-0.06
Chromium	µg/l	30.7 ± 0.674	30.609 ± 3.75	2.61	99.7	-0.01

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	75.93 ± 10.3	7.94	105	0.18
Copper	µg/l	41.7 ± 0.556	42.87 ± 4.47	3.75	103	0.13
Manganese	µg/l	59.9 ± 0.938	60.11 ± 6.79	4.31	100	0.01
Nickel	µg/l	14 ± 0.308	14.74 ± 1.36	1.68	105	0.26
Selenium	µg/l	13.1 ± 0.352	12.379 ± 1.98	1.57	94.8	-0.17
Uranium	µg/l	1.35 ± 0.0379	1.382 ± 0.13	0.0893	102	0.11
Zinc	µg/l	1550 ± 29.4	1541.8 ± 196	140	99.2	-0.03

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.301 ± 0.29	0.334	96.4	-0.15



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	70.2 ± 4.9	7.26	96.7	-0.33
Arsenic	µg/l	3.46 ± 0.0848	3.45 ± 0.24	0.449	99.8	-0.01
Lead	µg/l	1.84 ± 0.0805	3.48 ± 0.24	0.184	190	8.96
Cadmium	µg/l	1.53 ± 0.0318	1.5 ± 0.1	0.153	98	-0.20
Chromium	µg/l	1.23 ± 0.07	1.18 ± 0.08	0.16	96.2	-0.29
Iron	µg/l	23.6 ± 1.46	22.5 ± 1.6	3.53	95.5	-0.30
Copper	µg/l	8.84 ± 0.148	8.66 ± 0.61	0.796	97.9	-0.23
Manganese	µg/l	26.9 ± 0.565	1.8 ± 0.13	1.94	6.69	-12.96
Nickel	µg/l	3.58 ± 0.0927	27 ± 1.9	0.43	754	54.49
Selenium	µg/l	3.37 ± 0.105	- ± -	0.405	-	-
Uranium	µg/l	2.05 ± 0.0519	2.08 ± 0.15	0.135	101	0.20
Zinc	µg/l	342 ± 8.95	333 ± 23	30.8	97.5	-0.28

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	573 ± 40	61.6	93.1	-0.69
Arsenic	µg/l	10.2 ± 0.177	10.2 ± 0.7	1.33	99.9	-0.01
Lead	µg/l	17.7 ± 0.414	14.3 ± 1	1.77	80.8	-1.92
Cadmium	µg/l	4.92 ± 0.0597	4.8 ± 0.34	0.492	97.6	-0.24
Chromium	µg/l	30.7 ± 0.674	31 ± 2.2	2.61	101	0.11
Iron	µg/l	72.2 ± 1.46	74.9 ± 5.2	7.94	104	0.34
Copper	µg/l	41.7 ± 0.556	40.3 ± 2.8	3.75	96.7	-0.37
Manganese	µg/l	59.9 ± 0.938	17.2 ± 1.2	4.31	28.7	-9.90
Nickel	µg/l	14 ± 0.308	59.9 ± 4.2	1.68	427	27.24
Selenium	µg/l	13.1 ± 0.352	- ± -	1.57	-	-
Uranium	µg/l	1.35 ± 0.0379	1.36 ± 0.1	0.0893	101	0.08

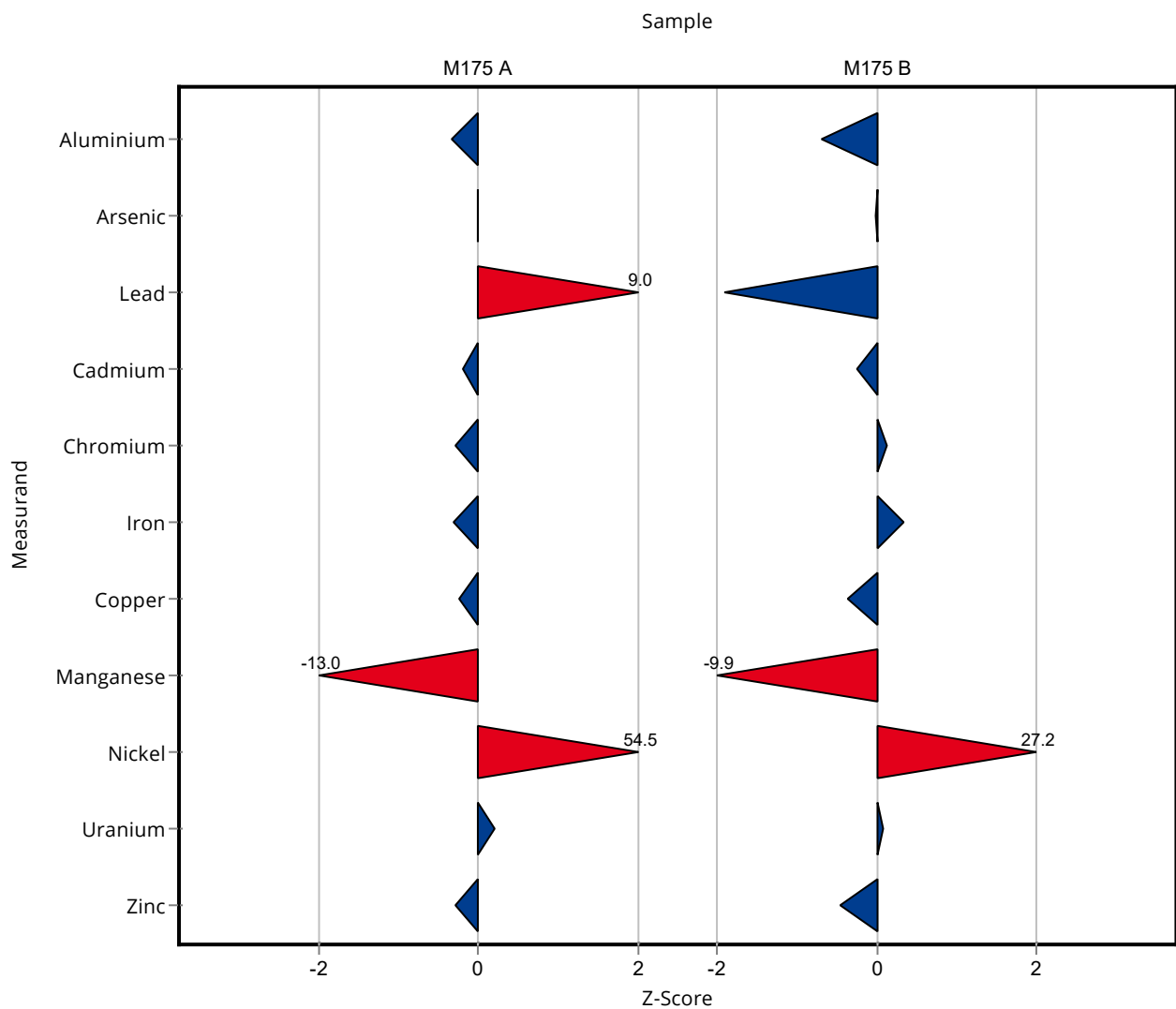
Summary of results Metals and trace elements M175

Labcode: LC0008

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1490 ± 104	140	95.9	-0.46

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	70.2 ± 4.9	7.26	96.7	-0.24
Arsenic	µg/l	3.46 ± 0.0848	3.45 ± 0.24	0.449	99.8	-0.01
Lead	µg/l	1.84 ± 0.0805	3.48 ± 0.24	0.184	190	3.38
Cadmium	µg/l	1.53 ± 0.0318	1.5 ± 0.1	0.153	98	-0.15
Chromium	µg/l	1.23 ± 0.07	1.18 ± 0.08	0.16	96.2	-0.27
Iron	µg/l	23.6 ± 1.46	22.5 ± 1.6	3.53	95.5	-0.30
Copper	µg/l	8.84 ± 0.148	8.66 ± 0.61	0.796	97.9	-0.15
Manganese	µg/l	26.9 ± 0.565	1.8 ± 0.13	1.94	6.69	-40.39
Nickel	µg/l	3.58 ± 0.0927	27 ± 1.9	0.43	754	6.16
Selenium	µg/l	3.37 ± 0.105	- ± -	0.405	-	-
Uranium	µg/l	2.05 ± 0.0519	2.08 ± 0.15	0.135	101	0.09
Zinc	µg/l	342 ± 8.95	333 ± 23	30.8	97.5	-0.19

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

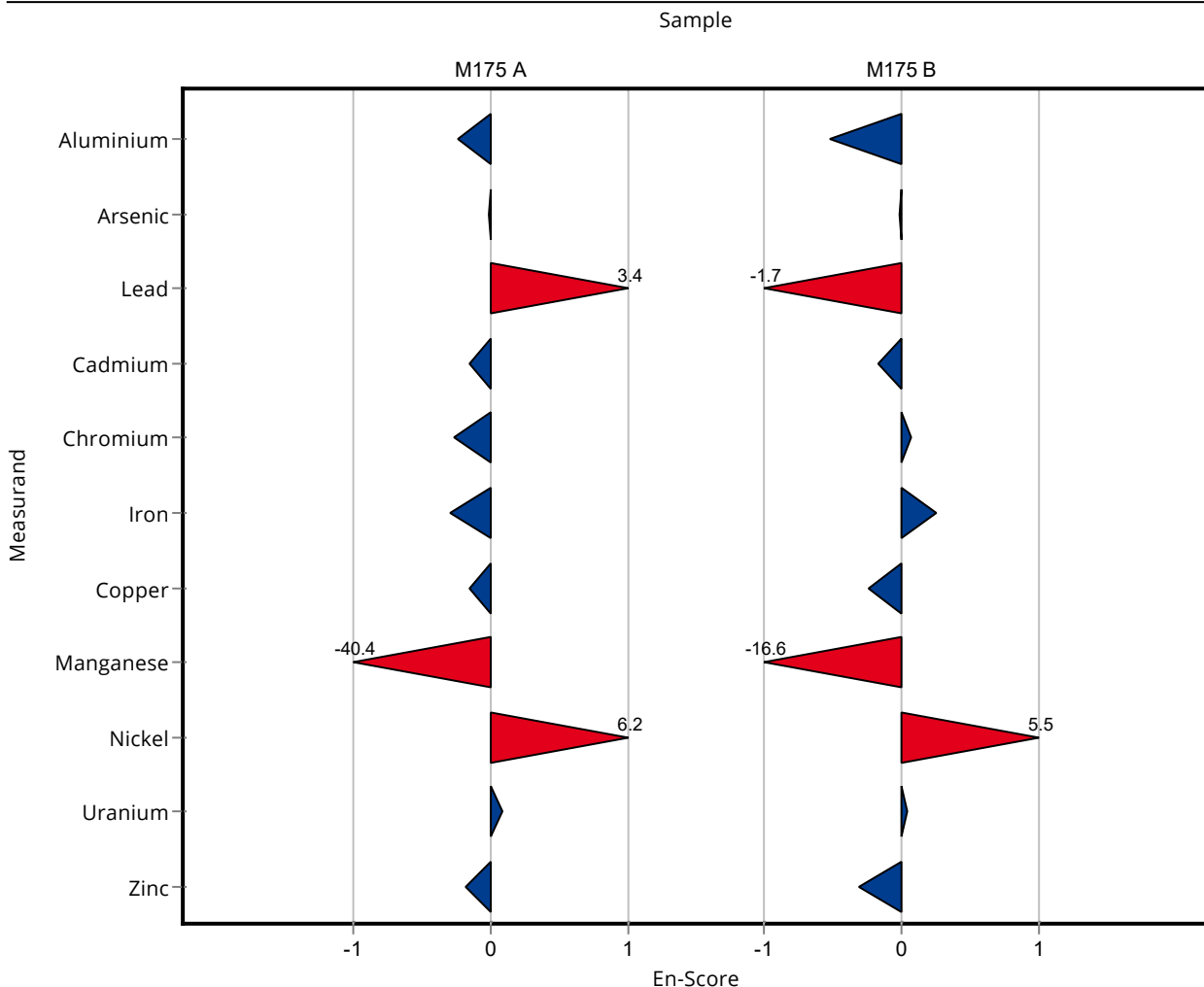
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	573 ± 40	61.6	93.1	-0.53
Arsenic	µg/l	10.2 ± 0.177	10.2 ± 0.7	1.33	99.9	-0.01
Lead	µg/l	17.7 ± 0.414	14.3 ± 1	1.77	80.8	-1.66
Cadmium	µg/l	4.92 ± 0.0597	4.8 ± 0.34	0.492	97.6	-0.18
Chromium	µg/l	30.7 ± 0.674	31 ± 2.2	2.61	101	0.07

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	74.9 ± 5.2	7.94	104	0.26
Copper	µg/l	41.7 ± 0.556	40.3 ± 2.8	3.75	96.7	-0.24
Manganese	µg/l	59.9 ± 0.938	17.2 ± 1.2	4.31	28.7	-16.58
Nickel	µg/l	14 ± 0.308	59.9 ± 4.2	1.68	427	5.46
Selenium	µg/l	13.1 ± 0.352	- ± -	1.57	-	-
Uranium	µg/l	1.35 ± 0.0379	1.36 ± 0.1	0.0893	101	0.04
Zinc	µg/l	1550 ± 29.4	1490 ± 104	140	95.9	-0.30

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	72.58 ± 2.83	7.26	100	0.00
Arsenic	µg/l	3.46 ± 0.0848	3.392 ± 0.175	0.449	98.2	-0.14
Lead	µg/l	1.84 ± 0.0805	1.896 ± 0.0823	0.184	103	0.33
Cadmium	µg/l	1.53 ± 0.0318	1.504 ± 0.0533	0.153	98.3	-0.17
Chromium	µg/l	1.23 ± 0.07	1.228 ± 0.059	0.16	100	0.01
Iron	µg/l	23.6 ± 1.46	24.41 ± 1.08	3.53	104	0.24
Copper	µg/l	8.84 ± 0.148	9.137 ± 0.436	0.796	103	0.37
Manganese	µg/l	26.9 ± 0.565	28.79 ± 1.17	1.94	107	0.96
Nickel	µg/l	3.58 ± 0.0927	3.499 ± 0.143	0.43	97.7	-0.19
Selenium	µg/l	3.37 ± 0.105	3.361 ± 0.212	0.405	99.7	-0.03
Uranium	µg/l	2.05 ± 0.0519	2.08 ± 0.11	0.135	101	0.20
Zinc	µg/l	342 ± 8.95	342.7 ± 12.7	30.8	100	0.03

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	598.4 ± 23.3	61.6	97.2	-0.28
Arsenic	µg/l	10.2 ± 0.177	10.27 ± 0.531	1.33	101	0.04
Lead	µg/l	17.7 ± 0.414	18.44 ± 0.8	1.77	104	0.42
Cadmium	µg/l	4.92 ± 0.0597	4.725 ± 0.167	0.492	96	-0.40
Chromium	µg/l	30.7 ± 0.674	31.88 ± 1.53	2.61	104	0.45
Iron	µg/l	72.2 ± 1.46	76.32 ± 3.38	7.94	106	0.52
Copper	µg/l	41.7 ± 0.556	43.21 ± 2.06	3.75	104	0.41
Manganese	µg/l	59.9 ± 0.938	62.04 ± 2.51	4.31	104	0.49
Nickel	µg/l	14 ± 0.308	14.11 ± 0.578	1.68	101	0.05
Selenium	µg/l	13.1 ± 0.352	12.61 ± 0.794	1.57	96.5	-0.29
Uranium	µg/l	1.35 ± 0.0379	1.371 ± 0.0727	0.0893	101	0.21

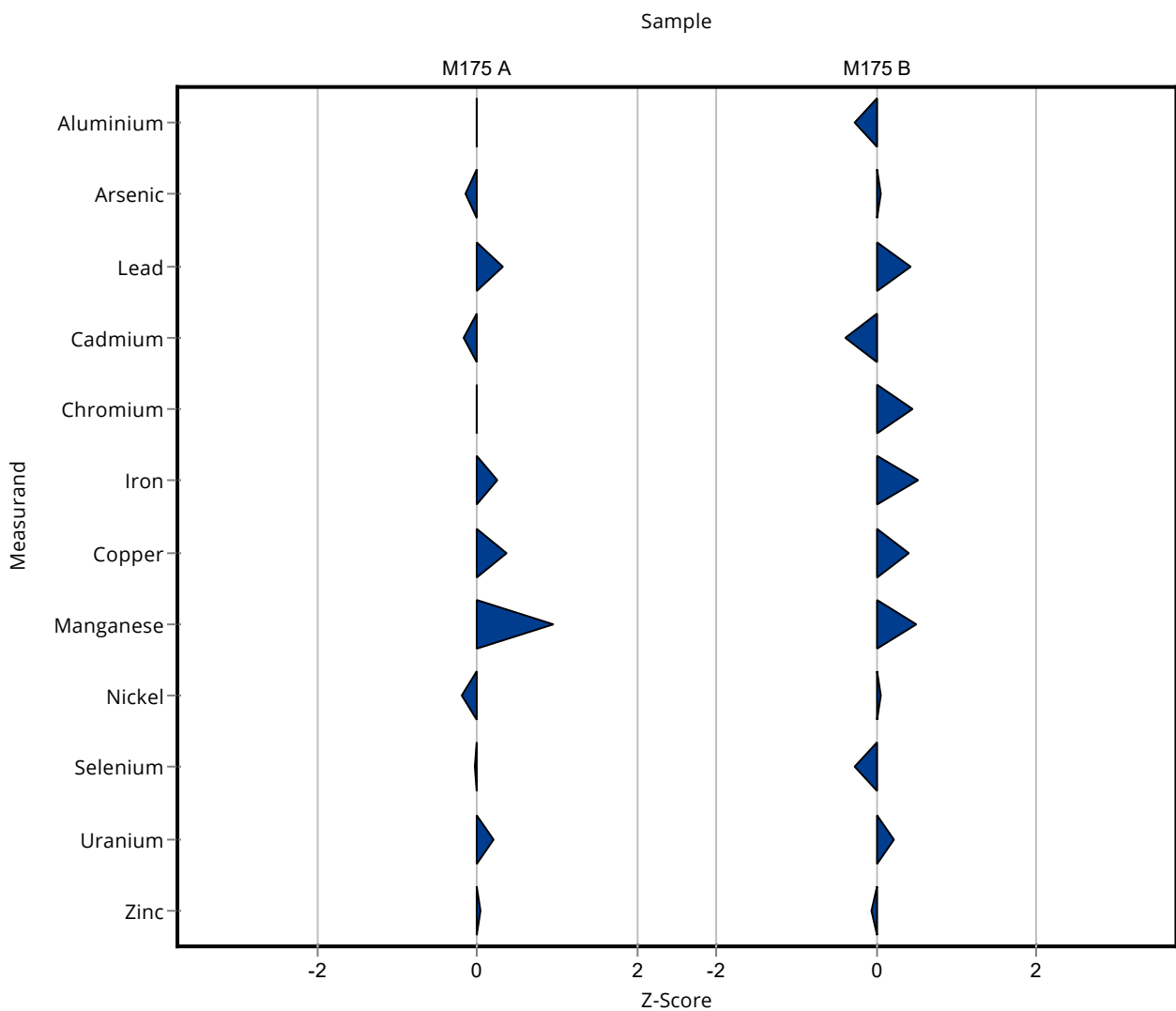
Summary of results Metals and trace elements M175

Labcode: LC0009

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1544 ± 57.3	140	99.4	-0.07

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	72.58 ± 2.83	7.26	100	0.00
Arsenic	µg/l	3.46 ± 0.0848	3.392 ± 0.175	0.449	98.2	-0.18
Lead	µg/l	1.84 ± 0.0805	1.896 ± 0.0823	0.184	103	0.33
Cadmium	µg/l	1.53 ± 0.0318	1.504 ± 0.0533	0.153	98.3	-0.24
Chromium	µg/l	1.23 ± 0.07	1.228 ± 0.059	0.16	100	0.01
Iron	µg/l	23.6 ± 1.46	24.41 ± 1.08	3.53	104	0.33
Copper	µg/l	8.84 ± 0.148	9.137 ± 0.436	0.796	103	0.33
Manganese	µg/l	26.9 ± 0.565	28.79 ± 1.17	1.94	107	0.78
Nickel	µg/l	3.58 ± 0.0927	3.499 ± 0.143	0.43	97.7	-0.27
Selenium	µg/l	3.37 ± 0.105	3.361 ± 0.212	0.405	99.7	-0.03
Uranium	µg/l	2.05 ± 0.0519	2.08 ± 0.11	0.135	101	0.12
Zinc	µg/l	342 ± 8.95	342.7 ± 12.7	30.8	100	0.04

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

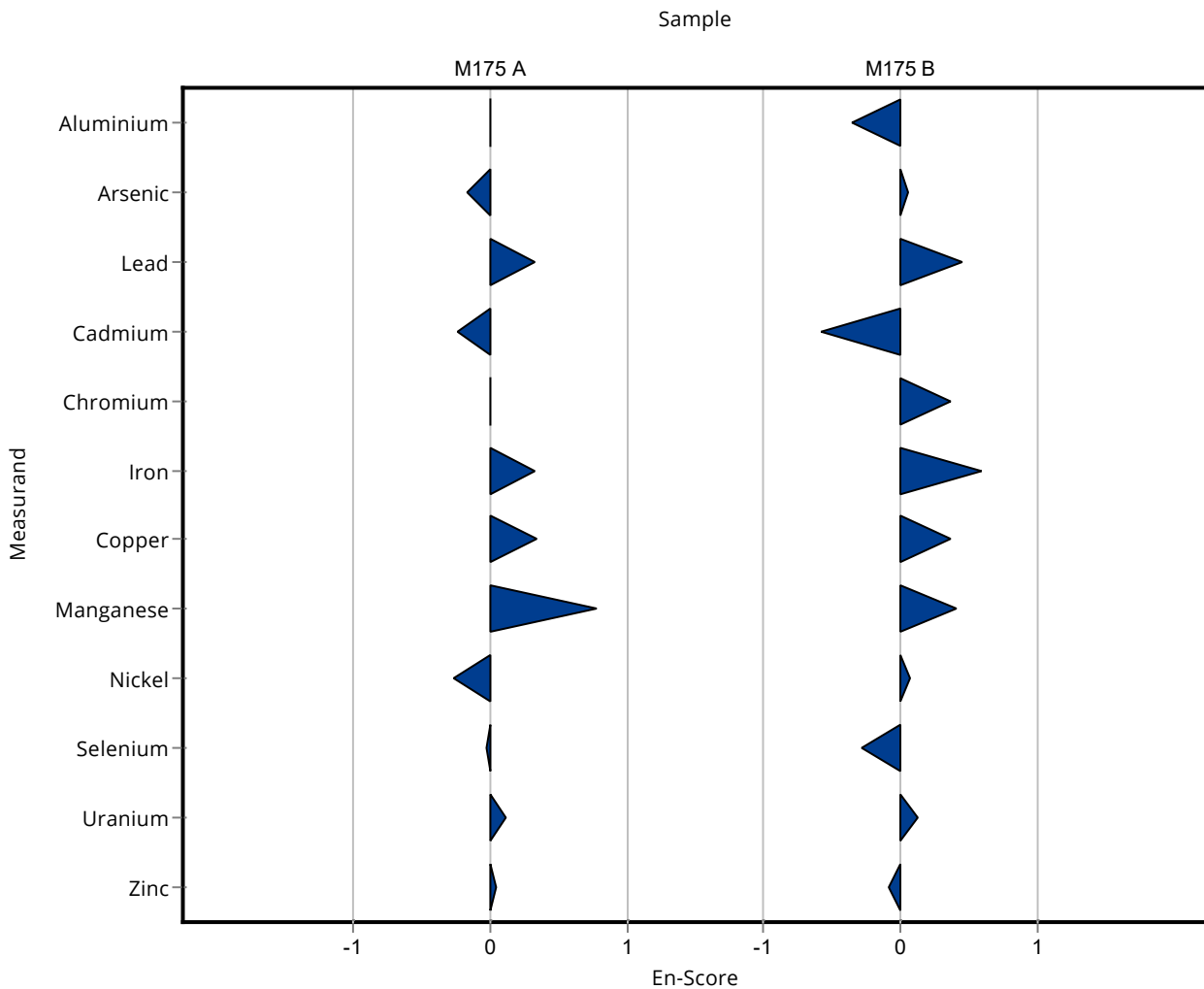
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	598.4 ± 23.3	61.6	97.2	-0.36
Arsenic	µg/l	10.2 ± 0.177	10.27 ± 0.531	1.33	101	0.05
Lead	µg/l	17.7 ± 0.414	18.44 ± 0.8	1.77	104	0.45
Cadmium	µg/l	4.92 ± 0.0597	4.725 ± 0.167	0.492	96	-0.57
Chromium	µg/l	30.7 ± 0.674	31.88 ± 1.53	2.61	104	0.37

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	76.32 ± 3.38	7.94	106	0.60
Copper	µg/l	41.7 ± 0.556	43.21 ± 2.06	3.75	104	0.37
Manganese	µg/l	59.9 ± 0.938	62.04 ± 2.51	4.31	104	0.41
Nickel	µg/l	14 ± 0.308	14.11 ± 0.578	1.68	101	0.07
Selenium	µg/l	13.1 ± 0.352	12.61 ± 0.794	1.57	96.5	-0.28
Uranium	µg/l	1.35 ± 0.0379	1.371 ± 0.0727	0.0893	101	0.12
Zinc	µg/l	1550 ± 29.4	1544 ± 57.3	140	99.4	-0.09

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	73.5 ± 10	7.26	101	0.13
Arsenic	µg/l	3.46 ± 0.0848	3.6 ± 0.46	0.449	104	0.32
Lead	µg/l	1.84 ± 0.0805	<5 (LOQ) ± -	0.184	-	-
Cadmium	µg/l	1.53 ± 0.0318	1.38 ± 0.18	0.153	90.2	-0.98
Chromium	µg/l	1.23 ± 0.07	- ± -	0.16	-	-
Iron	µg/l	23.6 ± 1.46	19.77 ± 3.1	3.53	83.9	-1.07
Copper	µg/l	8.84 ± 0.148	8.97 ± 1.6	0.796	101	0.16
Manganese	µg/l	26.9 ± 0.565	26.5 ± 2.8	1.94	98.4	-0.22
Nickel	µg/l	3.58 ± 0.0927	<3 (LOQ) ± -	0.43	-	-
Selenium	µg/l	3.37 ± 0.105	- ± -	0.405	-	-
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	- ± -	30.8	-	-

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	661 ± 92	61.6	107	0.73
Arsenic	µg/l	10.2 ± 0.177	10.2 ± 1.3	1.33	99.9	-0.01
Lead	µg/l	17.7 ± 0.414	15.67 ± 2.7	1.77	88.6	-1.14
Cadmium	µg/l	4.92 ± 0.0597	5.07 ± 0.67	0.492	103	0.31
Chromium	µg/l	30.7 ± 0.674	- ± -	2.61	-	-
Iron	µg/l	72.2 ± 1.46	70.67 ± 11.3	7.94	97.9	-0.19
Copper	µg/l	41.7 ± 0.556	4.45 ± 0.75	3.75	10.7	-9.92
Manganese	µg/l	59.9 ± 0.938	61.5 ± 6.5	4.31	103	0.37
Nickel	µg/l	14 ± 0.308	12.33 ± 2.2	1.68	87.9	-1.01
Selenium	µg/l	13.1 ± 0.352	- ± -	1.57	-	-
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-

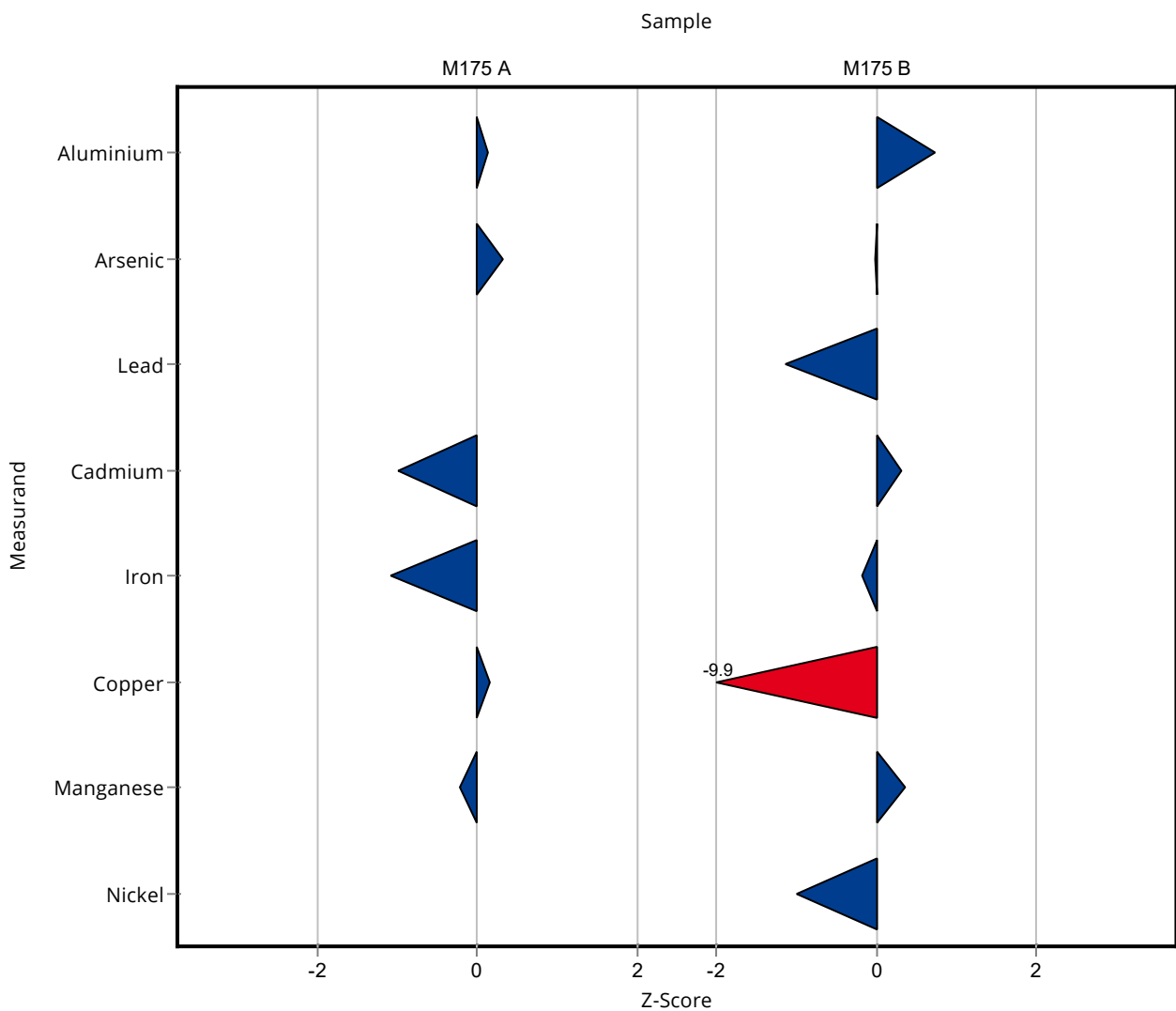
Summary of results Metals and trace elements M175

Labcode: LC0010

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	- ± -	140	-

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	73.5 ± 10	7.26	101	0.05
Arsenic	µg/l	3.46 ± 0.0848	3.6 ± 0.46	0.449	104	0.16
Lead	µg/l	1.84 ± 0.0805	<5 (LOQ) ± -	0.184	-	-
Cadmium	µg/l	1.53 ± 0.0318	1.38 ± 0.18	0.153	90.2	-0.42
Chromium	µg/l	1.23 ± 0.07	- ± -	0.16	-	-
Iron	µg/l	23.6 ± 1.46	19.77 ± 3.1	3.53	83.9	-0.59
Copper	µg/l	8.84 ± 0.148	8.97 ± 1.6	0.796	101	0.04
Manganese	µg/l	26.9 ± 0.565	26.5 ± 2.8	1.94	98.4	-0.07
Nickel	µg/l	3.58 ± 0.0927	<3 (LOQ) ± -	0.43	-	-
Selenium	µg/l	3.37 ± 0.105	- ± -	0.405	-	-
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	- ± -	30.8	-	-

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	661 ± 92	61.6	107	0.25
Arsenic	µg/l	10.2 ± 0.177	10.2 ± 1.3	1.33	99.9	-0.01
Lead	µg/l	17.7 ± 0.414	15.67 ± 2.7	1.77	88.6	-0.37
Cadmium	µg/l	4.92 ± 0.0597	5.07 ± 0.67	0.492	103	0.11
Chromium	µg/l	30.7 ± 0.674	- ± -	2.61	-	-

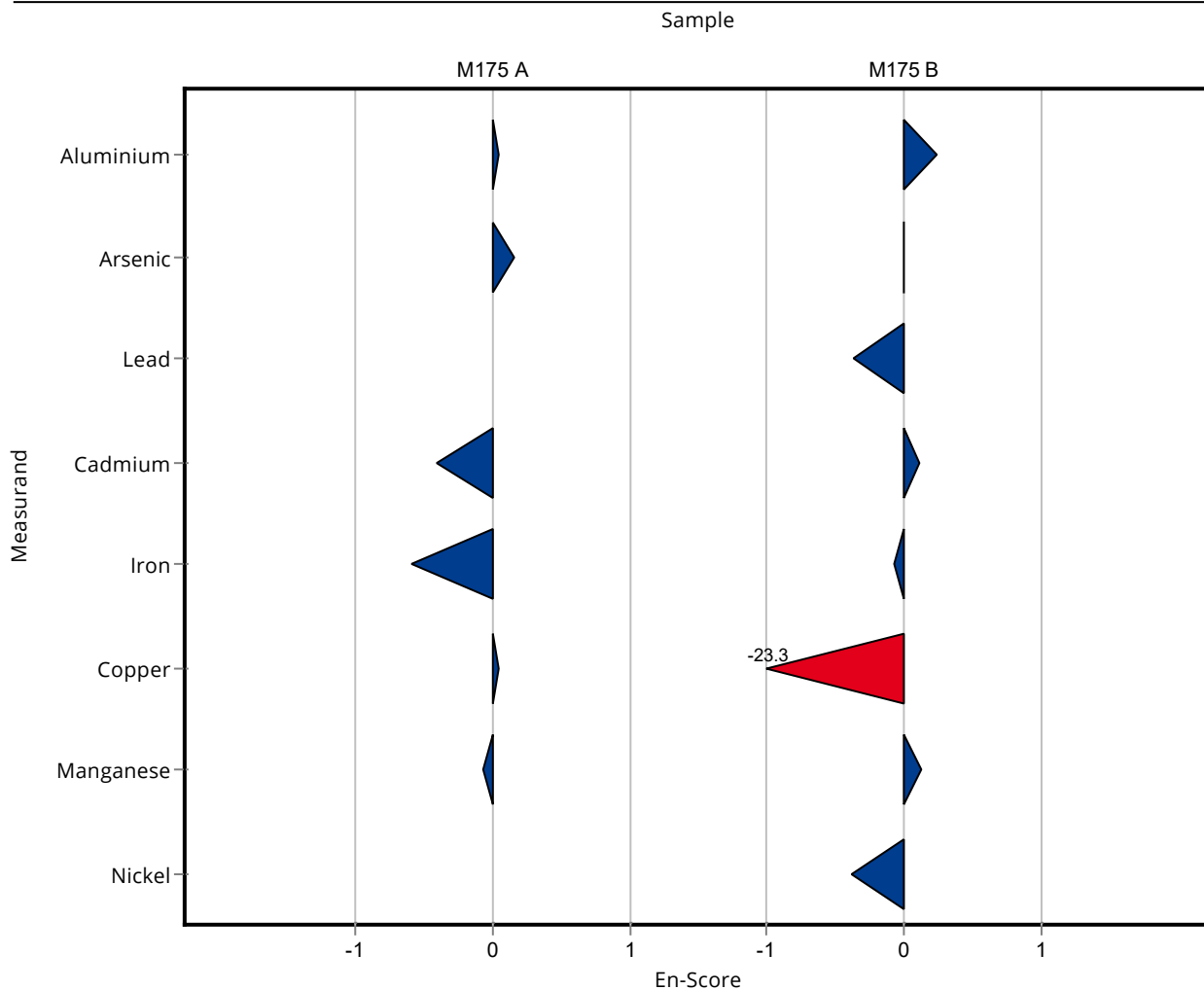
Summary of results Metals and trace elements M175 - En-Score

Labcode: LC0010

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	70.67 ± 11.3	7.94	97.9	-0.07
Copper	µg/l	41.7 ± 0.556	4.45 ± 0.75	3.75	10.7	-23.27
Manganese	µg/l	59.9 ± 0.938	61.5 ± 6.5	4.31	103	0.12
Nickel	µg/l	14 ± 0.308	12.33 ± 2.2	1.68	87.9	-0.39
Selenium	µg/l	13.1 ± 0.352	- ± -	1.57	-	-
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-
Zinc	µg/l	1550 ± 29.4	- ± -	140	-	-

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



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Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	86.6 ± 13	7.26	119	1.93
Arsenic	µg/l	3.46 ± 0.0848	- ± -	0.449	-	-
Lead	µg/l	1.84 ± 0.0805	- ± -	0.184	-	-
Cadmium	µg/l	1.53 ± 0.0318	- ± -	0.153	-	-
Chromium	µg/l	1.23 ± 0.07	- ± -	0.16	-	-
Iron	µg/l	23.6 ± 1.46	20.2 ± 3.4	3.53	85.8	-0.95
Copper	µg/l	8.84 ± 0.148	- ± -	0.796	-	-
Manganese	µg/l	26.9 ± 0.565	25.4 ± 3.8	1.94	94.3	-0.78
Nickel	µg/l	3.58 ± 0.0927	- ± -	0.43	-	-
Selenium	µg/l	3.37 ± 0.105	- ± -	0.405	-	-
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	- ± -	30.8	-	-

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	633.6 ± 95	61.6	103	0.29
Arsenic	µg/l	10.2 ± 0.177	- ± -	1.33	-	-
Lead	µg/l	17.7 ± 0.414	- ± -	1.77	-	-
Cadmium	µg/l	4.92 ± 0.0597	- ± -	0.492	-	-
Chromium	µg/l	30.7 ± 0.674	- ± -	2.61	-	-
Iron	µg/l	72.2 ± 1.46	69.9 ± 11.9	7.94	96.8	-0.29
Copper	µg/l	41.7 ± 0.556	- ± -	3.75	-	-
Manganese	µg/l	59.9 ± 0.938	58.1 ± 8.7	4.31	97	-0.42
Nickel	µg/l	14 ± 0.308	- ± -	1.68	-	-
Selenium	µg/l	13.1 ± 0.352	- ± -	1.57	-	-
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-

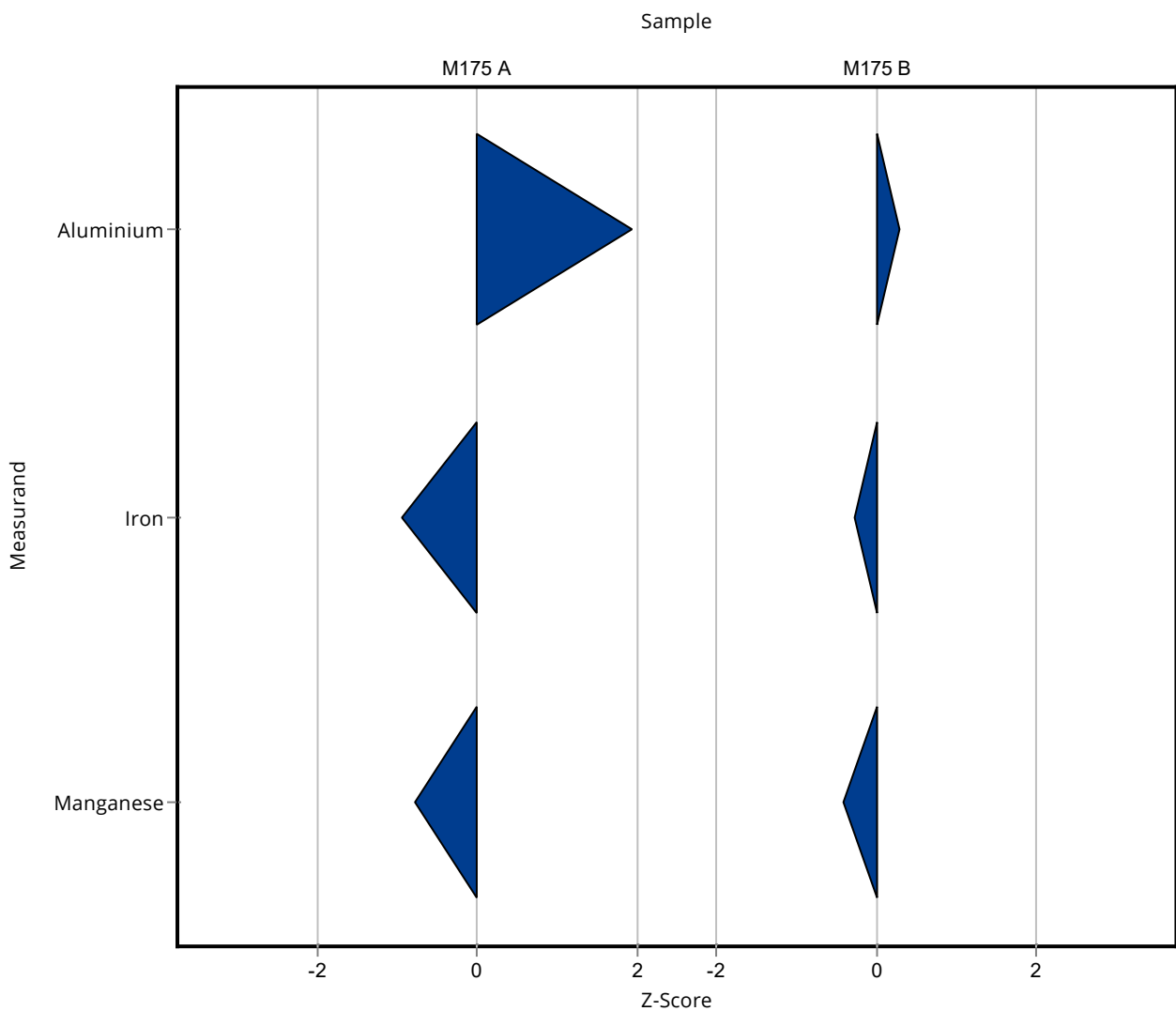
Summary of results Metals and trace elements M175

Labcode: LC0011

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	- ± -	140	-

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	86.6 ± 13	7.26	119	0.54
Arsenic	µg/l	3.46 ± 0.0848	- ± -	0.449	-	-
Lead	µg/l	1.84 ± 0.0805	- ± -	0.184	-	-
Cadmium	µg/l	1.53 ± 0.0318	- ± -	0.153	-	-
Chromium	µg/l	1.23 ± 0.07	- ± -	0.16	-	-
Iron	µg/l	23.6 ± 1.46	20.2 ± 3.4	3.53	85.8	-0.48
Copper	µg/l	8.84 ± 0.148	- ± -	0.796	-	-
Manganese	µg/l	26.9 ± 0.565	25.4 ± 3.8	1.94	94.3	-0.20
Nickel	µg/l	3.58 ± 0.0927	- ± -	0.43	-	-
Selenium	µg/l	3.37 ± 0.105	- ± -	0.405	-	-
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	- ± -	30.8	-	-

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

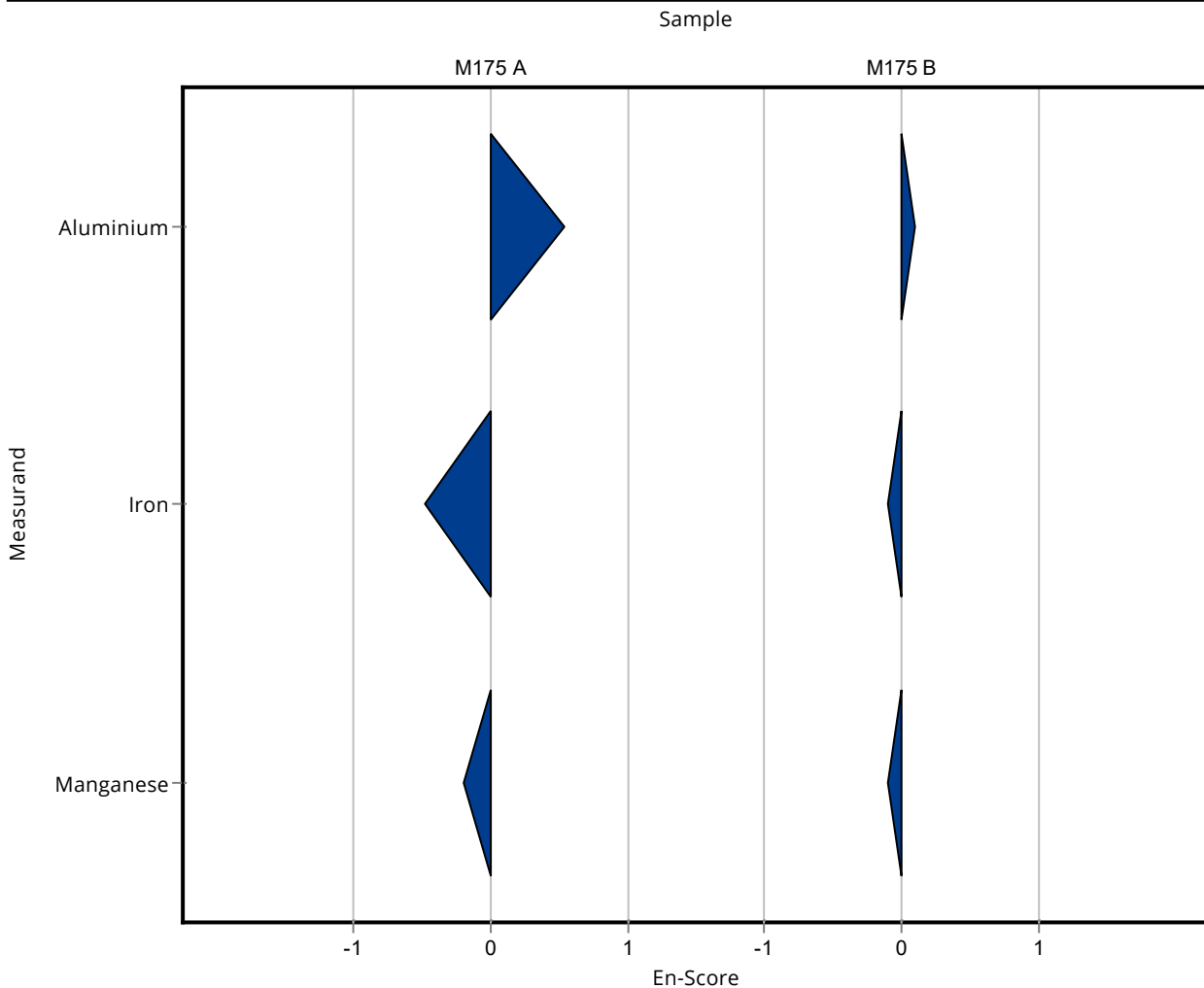
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	633.6 ± 95	61.6	103	0.09
Arsenic	µg/l	10.2 ± 0.177	- ± -	1.33	-	-
Lead	µg/l	17.7 ± 0.414	- ± -	1.77	-	-
Cadmium	µg/l	4.92 ± 0.0597	- ± -	0.492	-	-
Chromium	µg/l	30.7 ± 0.674	- ± -	2.61	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	69.9 ± 11.9	7.94	96.8	-0.10
Copper	µg/l	41.7 ± 0.556	- ± -	3.75	-	-
Manganese	µg/l	59.9 ± 0.938	58.1 ± 8.7	4.31	97	-0.10
Nickel	µg/l	14 ± 0.308	- ± -	1.68	-	-
Selenium	µg/l	13.1 ± 0.352	- ± -	1.57	-	-
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-
Zinc	µg/l	1550 ± 29.4	- ± -	140	-	-

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	66.8 ± 4	7.26	92	-0.80
Arsenic	µg/l	3.46 ± 0.0848	3.25 ± 0.49	0.449	94.1	-0.46
Lead	µg/l	1.84 ± 0.0805	1.89 ± 0.23	0.184	103	0.30
Cadmium	µg/l	1.53 ± 0.0318	1.55 ± 0.19	0.153	101	0.13
Chromium	µg/l	1.23 ± 0.07	1.11 ± 0.17	0.16	90.5	-0.73
Iron	µg/l	23.6 ± 1.46	24.3 ± 3.6	3.53	103	0.21
Copper	µg/l	8.84 ± 0.148	8.6 ± 1	0.796	97.3	-0.31
Manganese	µg/l	26.9 ± 0.565	26.3 ± 3.2	1.94	97.7	-0.32
Nickel	µg/l	3.58 ± 0.0927	3.71 ± 0.41	0.43	104	0.30
Selenium	µg/l	3.37 ± 0.105	3.1 ± 0.47	0.405	91.9	-0.67
Uranium	µg/l	2.05 ± 0.0519	2.08 ± 0.31	0.135	101	0.20
Zinc	µg/l	342 ± 8.95	317 ± 48	30.8	92.8	-0.80

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.674 ± 0.15	0.0801	118	1.27

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	586 ± 117	61.6	95.2	-0.48
Arsenic	µg/l	10.2 ± 0.177	10 ± 1.5	1.33	97.9	-0.16
Lead	µg/l	17.7 ± 0.414	17.5 ± 2.1	1.77	98.9	-0.11
Cadmium	µg/l	4.92 ± 0.0597	4.87 ± 0.58	0.492	99	-0.10
Chromium	µg/l	30.7 ± 0.674	30.4 ± 4.6	2.61	99	-0.12
Iron	µg/l	72.2 ± 1.46	73.5 ± 11	7.94	102	0.17
Copper	µg/l	41.7 ± 0.556	40.3 ± 4.8	3.75	96.7	-0.37
Manganese	µg/l	59.9 ± 0.938	58.5 ± 7	4.31	97.6	-0.33
Nickel	µg/l	14 ± 0.308	14.1 ± 1.6	1.68	100	0.04
Selenium	µg/l	13.1 ± 0.352	12.6 ± 1.9	1.57	96.5	-0.29
Uranium	µg/l	1.35 ± 0.0379	1.4 ± 0.21	0.0893	104	0.53

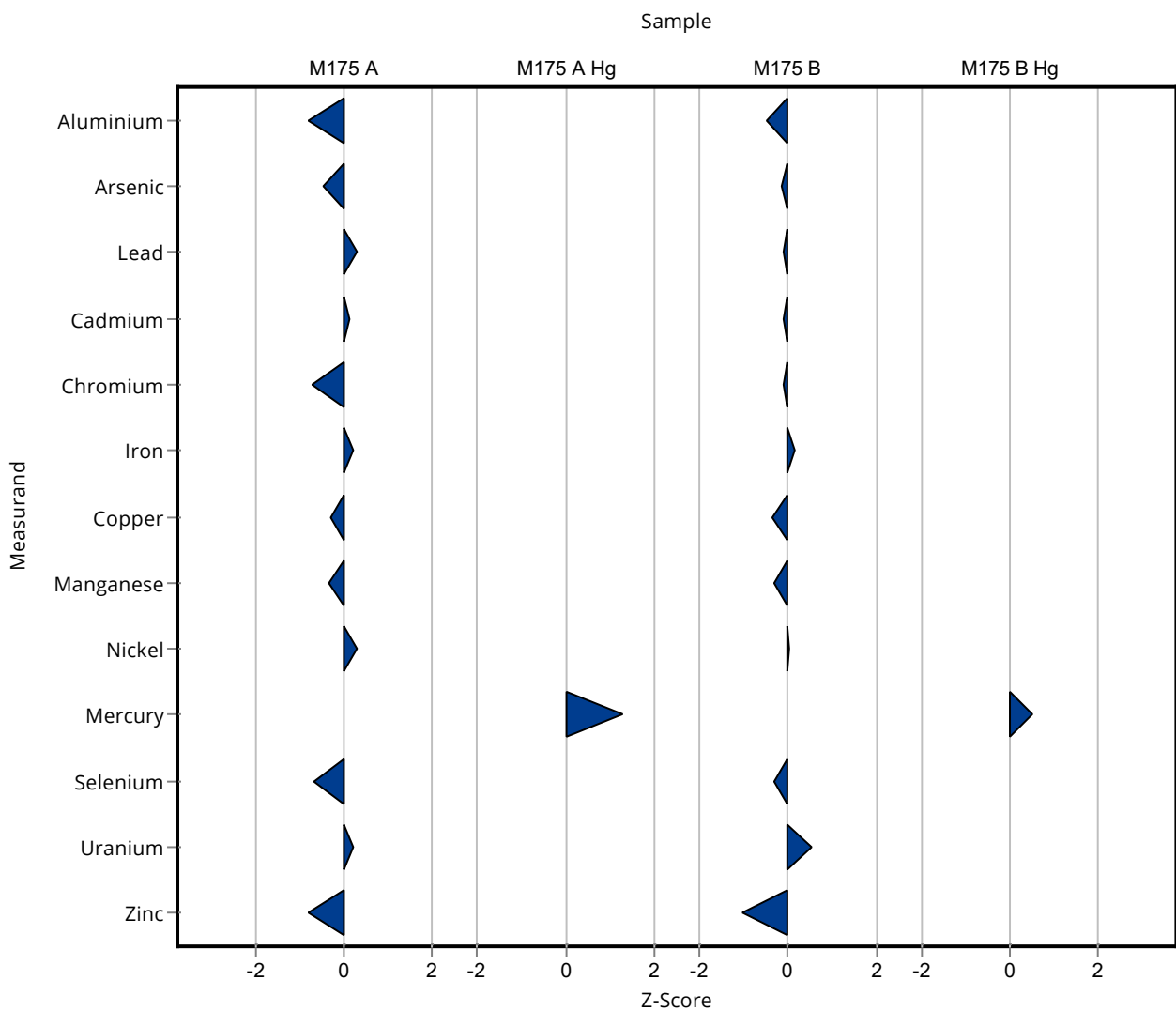
Summary of results Metals and trace elements M175

Labcode: LC0012

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1410 ± 212	140	90.7	-1.03

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.55 ± 0.56	0.334	107	0.49



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	66.8 ± 4	7.26	92	-0.70
Arsenic	µg/l	3.46 ± 0.0848	3.25 ± 0.49	0.449	94.1	-0.21
Lead	µg/l	1.84 ± 0.0805	1.89 ± 0.23	0.184	103	0.12
Cadmium	µg/l	1.53 ± 0.0318	1.55 ± 0.19	0.153	101	0.05
Chromium	µg/l	1.23 ± 0.07	1.11 ± 0.17	0.16	90.5	-0.34
Iron	µg/l	23.6 ± 1.46	24.3 ± 3.6	3.53	103	0.10
Copper	µg/l	8.84 ± 0.148	8.6 ± 1	0.796	97.3	-0.12
Manganese	µg/l	26.9 ± 0.565	26.3 ± 3.2	1.94	97.7	-0.10
Nickel	µg/l	3.58 ± 0.0927	3.71 ± 0.41	0.43	104	0.16
Selenium	µg/l	3.37 ± 0.105	3.1 ± 0.47	0.405	91.9	-0.29
Uranium	µg/l	2.05 ± 0.0519	2.08 ± 0.31	0.135	101	0.04
Zinc	µg/l	342 ± 8.95	317 ± 48	30.8	92.8	-0.26

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.674 ± 0.15	0.0801	118	0.34

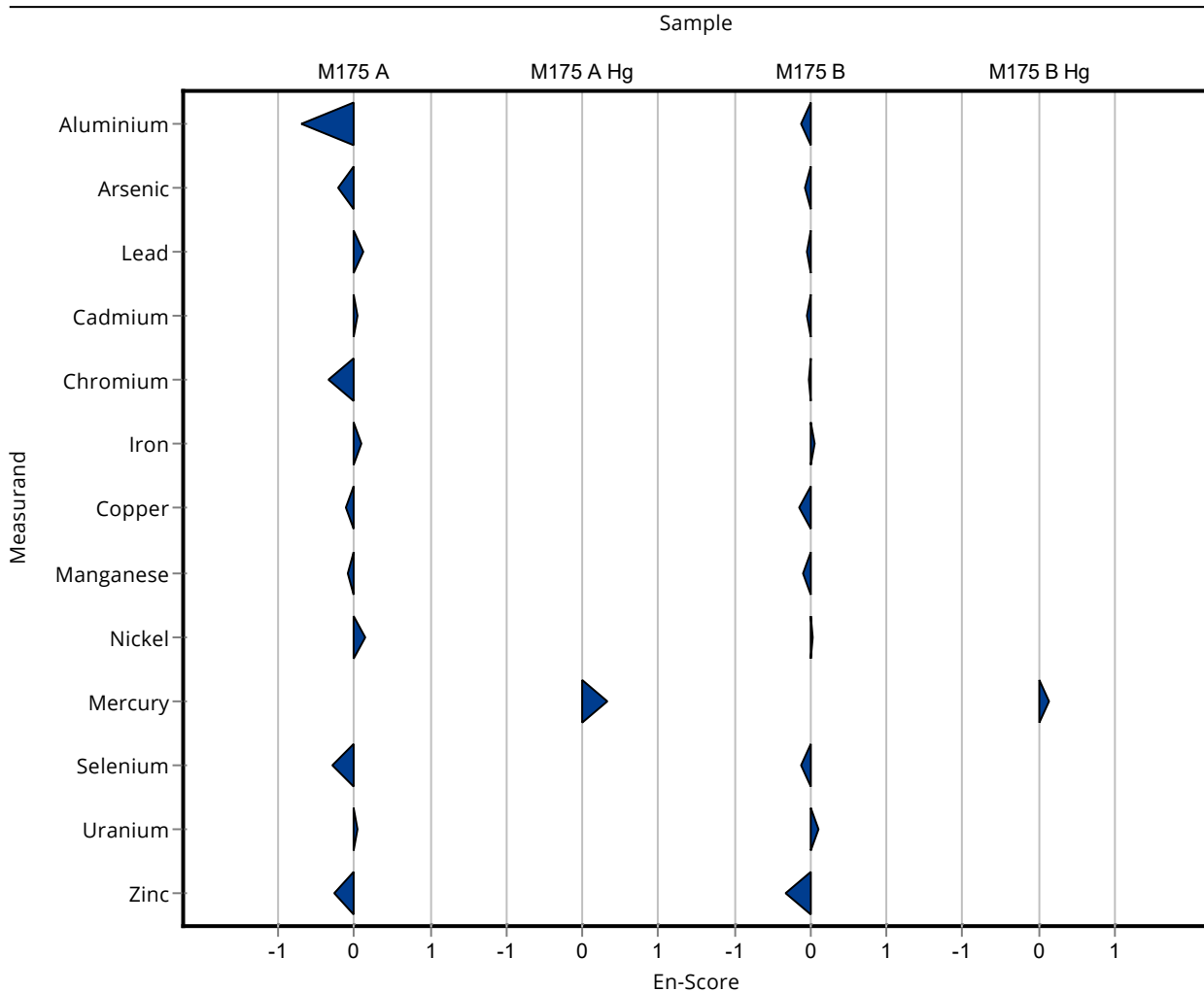
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	586 ± 117	61.6	95.2	-0.13
Arsenic	µg/l	10.2 ± 0.177	10 ± 1.5	1.33	97.9	-0.07
Lead	µg/l	17.7 ± 0.414	17.5 ± 2.1	1.77	98.9	-0.05
Cadmium	µg/l	4.92 ± 0.0597	4.87 ± 0.58	0.492	99	-0.04
Chromium	µg/l	30.7 ± 0.674	30.4 ± 4.6	2.61	99	-0.03

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	73.5 ± 11	7.94	102	0.06
Copper	µg/l	41.7 ± 0.556	40.3 ± 4.8	3.75	96.7	-0.14
Manganese	µg/l	59.9 ± 0.938	58.5 ± 7	4.31	97.6	-0.10
Nickel	µg/l	14 ± 0.308	14.1 ± 1.6	1.68	100	0.02
Selenium	µg/l	13.1 ± 0.352	12.6 ± 1.9	1.57	96.5	-0.12
Uranium	µg/l	1.35 ± 0.0379	1.4 ± 0.21	0.0893	104	0.11
Zinc	µg/l	1550 ± 29.4	1410 ± 212	140	90.7	-0.34

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.55 ± 0.56	0.334	107	0.15



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	80 ± 16	7.26	110	1.02
Arsenic	µg/l	3.46 ± 0.0848	4.5 ± 1	0.449	130	2.33
Lead	µg/l	1.84 ± 0.0805	3 ± 1	0.184	163	6.34
Cadmium	µg/l	1.53 ± 0.0318	1.4 ± 0.2	0.153	91.5	-0.85
Chromium	µg/l	1.23 ± 0.07	1.5 ± 1	0.16	122	1.71
Iron	µg/l	23.6 ± 1.46	42 ± 20	3.53	178	5.22
Copper	µg/l	8.84 ± 0.148	9 ± 1.5	0.796	102	0.20
Manganese	µg/l	26.9 ± 0.565	28 ± 8	1.94	104	0.56
Nickel	µg/l	3.58 ± 0.0927	5 ± 1	0.43	140	3.30
Selenium	µg/l	3.37 ± 0.105	- ± -	0.405	-	-
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	360 ± 36	30.8	105	0.60

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.56 ± 0.2	0.0801	97.8	-0.16

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	382 ± 75	61.6	62	-3.80
Arsenic	µg/l	10.2 ± 0.177	12 ± 1.2	1.33	117	1.35
Lead	µg/l	17.7 ± 0.414	19 ± 2	1.77	107	0.74
Cadmium	µg/l	4.92 ± 0.0597	4.8 ± 0.6	0.492	97.6	-0.24
Chromium	µg/l	30.7 ± 0.674	27 ± 4	2.61	87.9	-1.42
Iron	µg/l	72.2 ± 1.46	88 ± 20	7.94	122	1.99
Copper	µg/l	41.7 ± 0.556	41 ± 6	3.75	98.4	-0.18
Manganese	µg/l	59.9 ± 0.938	62 ± 15	4.31	103	0.48
Nickel	µg/l	14 ± 0.308	14 ± 2	1.68	99.8	-0.02
Selenium	µg/l	13.1 ± 0.352	- ± -	1.57	-	-
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-

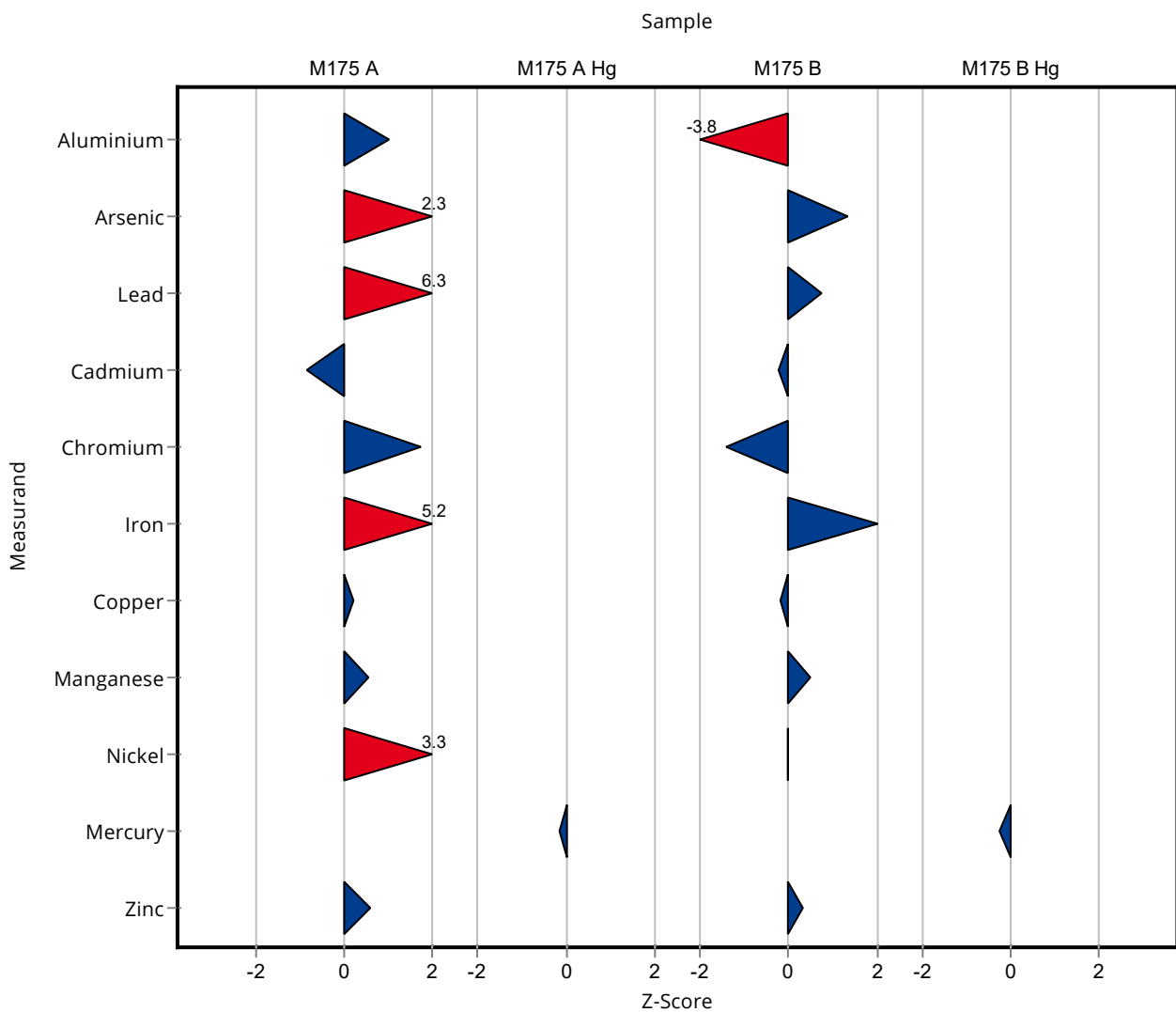
Summary of results Metals and trace elements M175

Labcode: LC0013

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1600 ± 160	140	103	0.33

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.3 ± 0.7	0.334	96.4	-0.26



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	80 ± 16	7.26	110	0.23
Arsenic	µg/l	3.46 ± 0.0848	4.5 ± 1	0.449	130	0.52
Lead	µg/l	1.84 ± 0.0805	3 ± 1	0.184	163	0.58
Cadmium	µg/l	1.53 ± 0.0318	1.4 ± 0.2	0.153	91.5	-0.32
Chromium	µg/l	1.23 ± 0.07	1.5 ± 1	0.16	122	0.14
Iron	µg/l	23.6 ± 1.46	42 ± 20	3.53	178	0.46
Copper	µg/l	8.84 ± 0.148	9 ± 1.5	0.796	102	0.05
Manganese	µg/l	26.9 ± 0.565	28 ± 8	1.94	104	0.07
Nickel	µg/l	3.58 ± 0.0927	5 ± 1	0.43	140	0.71
Selenium	µg/l	3.37 ± 0.105	- ± -	0.405	-	-
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	360 ± 36	30.8	105	0.25

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.56 ± 0.2	0.0801	97.8	-0.03

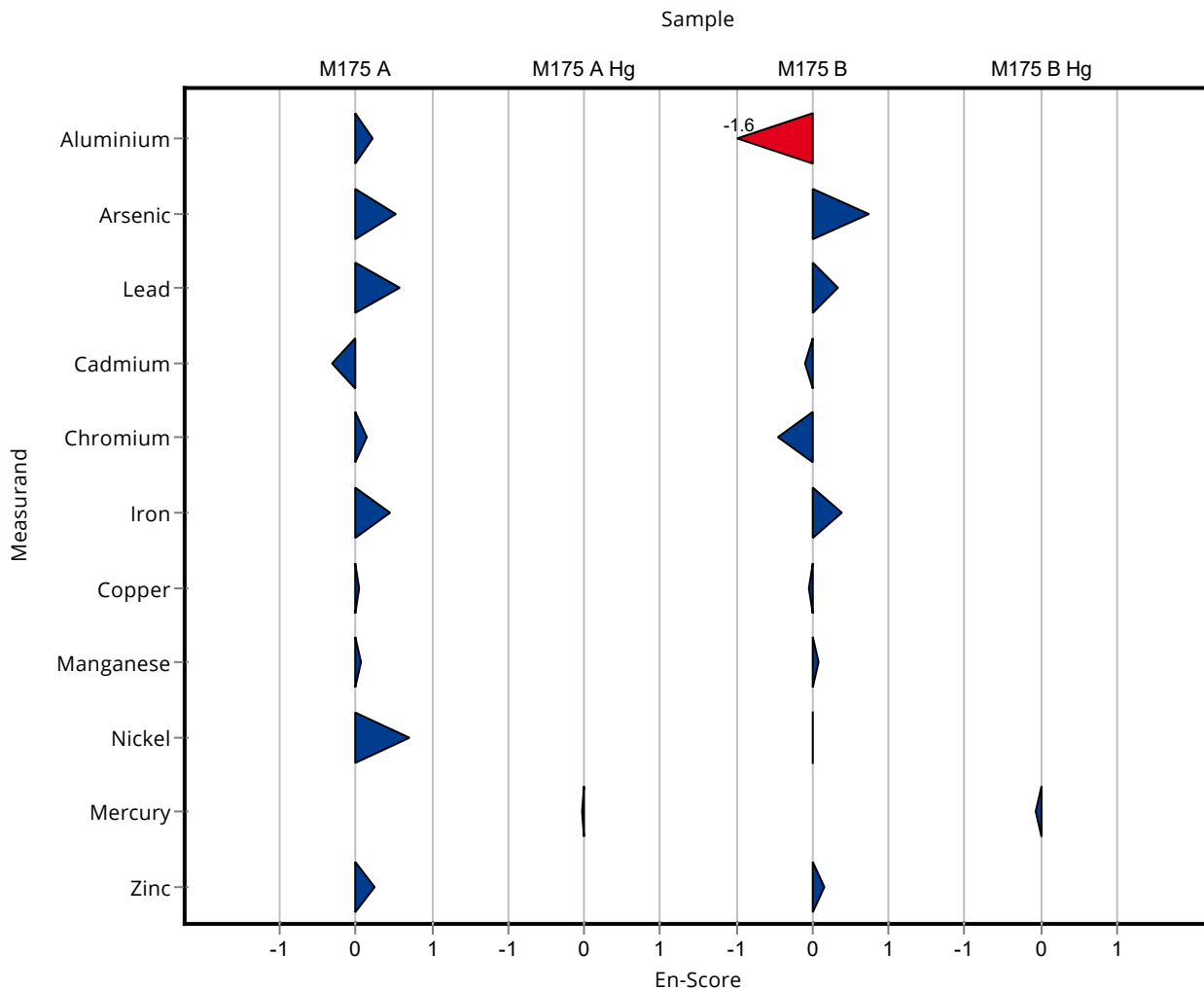
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	382 ± 75	61.6	62	-1.55
Arsenic	µg/l	10.2 ± 0.177	12 ± 1.2	1.33	117	0.74
Lead	µg/l	17.7 ± 0.414	19 ± 2	1.77	107	0.32
Cadmium	µg/l	4.92 ± 0.0597	4.8 ± 0.6	0.492	97.6	-0.10
Chromium	µg/l	30.7 ± 0.674	27 ± 4	2.61	87.9	-0.46

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	88 ± 20	7.94	122	0.40
Copper	µg/l	41.7 ± 0.556	41 ± 6	3.75	98.4	-0.06
Manganese	µg/l	59.9 ± 0.938	62 ± 15	4.31	103	0.07
Nickel	µg/l	14 ± 0.308	14 ± 2	1.68	99.8	-0.01
Selenium	µg/l	13.1 ± 0.352	- ± -	1.57	-	-
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-
Zinc	µg/l	1550 ± 29.4	1600 ± 160	140	103	0.14

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.3 ± 0.7	0.334	96.4	-0.06



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	- ± -	7.26	-	-
Arsenic	µg/l	3.46 ± 0.0848	3.958 ± 0.241	0.449	115	1.12
Lead	µg/l	1.84 ± 0.0805	1.559 ± 0.128	0.184	84.9	-1.51
Cadmium	µg/l	1.53 ± 0.0318	1.538 ± 0.131	0.153	101	0.05
Chromium	µg/l	1.23 ± 0.07	1.296 ± 0.093	0.16	106	0.43
Iron	µg/l	23.6 ± 1.46	- ± -	3.53	-	-
Copper	µg/l	8.84 ± 0.148	8.946 ± 1.091	0.796	101	0.13
Manganese	µg/l	26.9 ± 0.565	- ± -	1.94	-	-
Nickel	µg/l	3.58 ± 0.0927	3.795 ± 0.383	0.43	106	0.50
Selenium	µg/l	3.37 ± 0.105	3.369 ± 0.438	0.405	99.9	-0.01
Uranium	µg/l	2.05 ± 0.0519	1.818 ± 0.198	0.135	88.6	-1.73
Zinc	µg/l	342 ± 8.95	373.13 ± 36.567	30.8	109	1.02

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	- ± -	61.6	-	-
Arsenic	µg/l	10.2 ± 0.177	11.307 ± 0.69	1.33	111	0.82
Lead	µg/l	17.7 ± 0.414	16.424 ± 1.347	1.77	92.8	-0.72
Cadmium	µg/l	4.92 ± 0.0597	4.893 ± 0.416	0.492	99.5	-0.05
Chromium	µg/l	30.7 ± 0.674	33.969 ± 2.446	2.61	111	1.25
Iron	µg/l	72.2 ± 1.46	- ± -	7.94	-	-
Copper	µg/l	41.7 ± 0.556	42.108 ± 5.137	3.75	101	0.12
Manganese	µg/l	59.9 ± 0.938	- ± -	4.31	-	-
Nickel	µg/l	14 ± 0.308	15.075 ± 1.523	1.68	107	0.62
Selenium	µg/l	13.1 ± 0.352	13.113 ± 1.705	1.57	100	0.03
Uranium	µg/l	1.35 ± 0.0379	1.236 ± 0.135	0.0893	91.4	-1.31

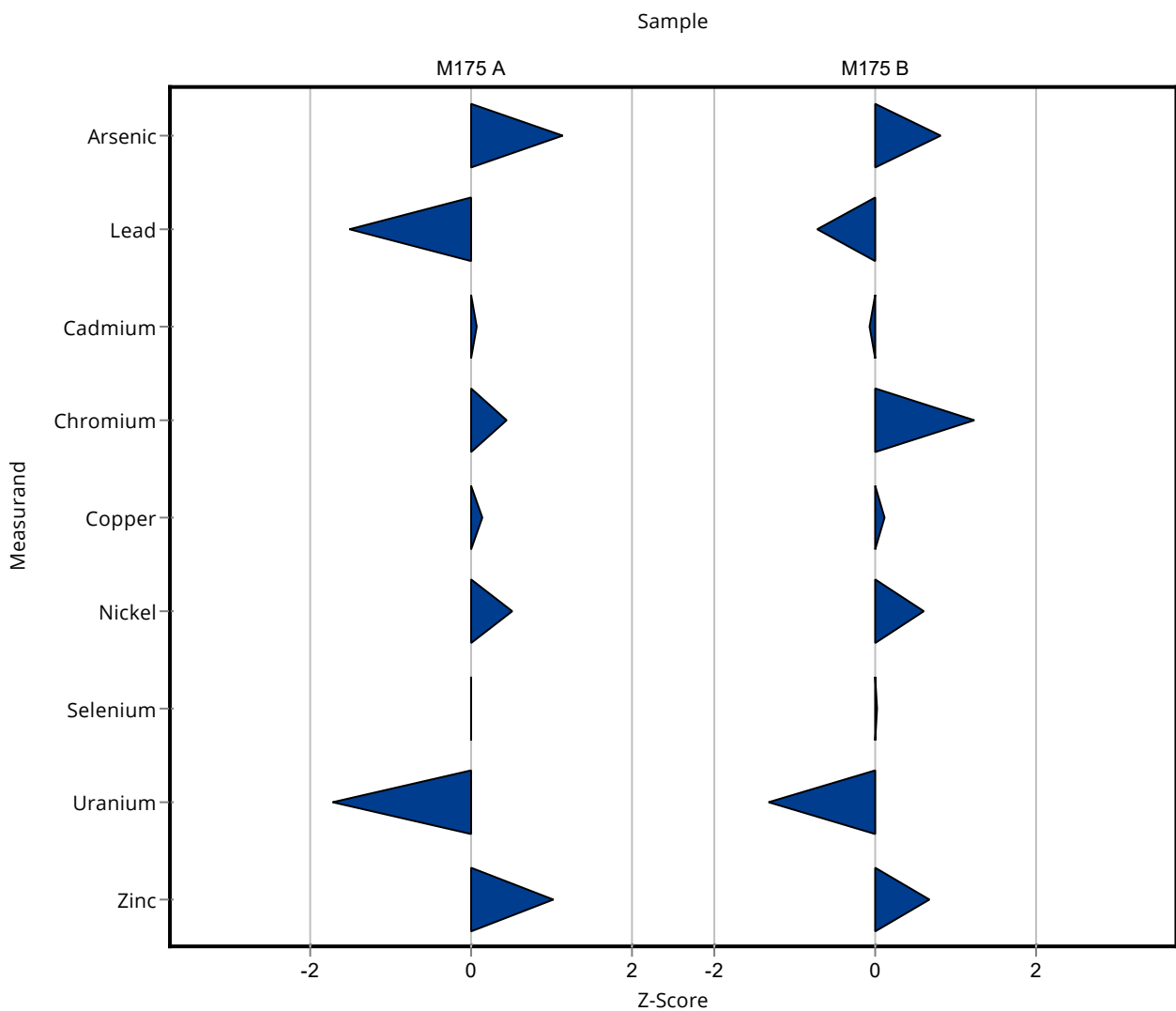
Summary of results Metals and trace elements M175

Labcode: LC0014

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1650.32 ± 161.731	140	106	0.69

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	- ± -	7.26	-	-
Arsenic	µg/l	3.46 ± 0.0848	3.958 ± 0.241	0.449	115	1.03
Lead	µg/l	1.84 ± 0.0805	1.559 ± 0.128	0.184	84.9	-1.03
Cadmium	µg/l	1.53 ± 0.0318	1.538 ± 0.131	0.153	101	0.03
Chromium	µg/l	1.23 ± 0.07	1.296 ± 0.093	0.16	106	0.35
Iron	µg/l	23.6 ± 1.46	- ± -	3.53	-	-
Copper	µg/l	8.84 ± 0.148	8.946 ± 1.091	0.796	101	0.05
Manganese	µg/l	26.9 ± 0.565	- ± -	1.94	-	-
Nickel	µg/l	3.58 ± 0.0927	3.795 ± 0.383	0.43	106	0.28
Selenium	µg/l	3.37 ± 0.105	3.369 ± 0.438	0.405	99.9	0.00
Uranium	µg/l	2.05 ± 0.0519	1.818 ± 0.198	0.135	88.6	-0.59
Zinc	µg/l	342 ± 8.95	373.13 ± 36.567	30.8	109	0.43

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

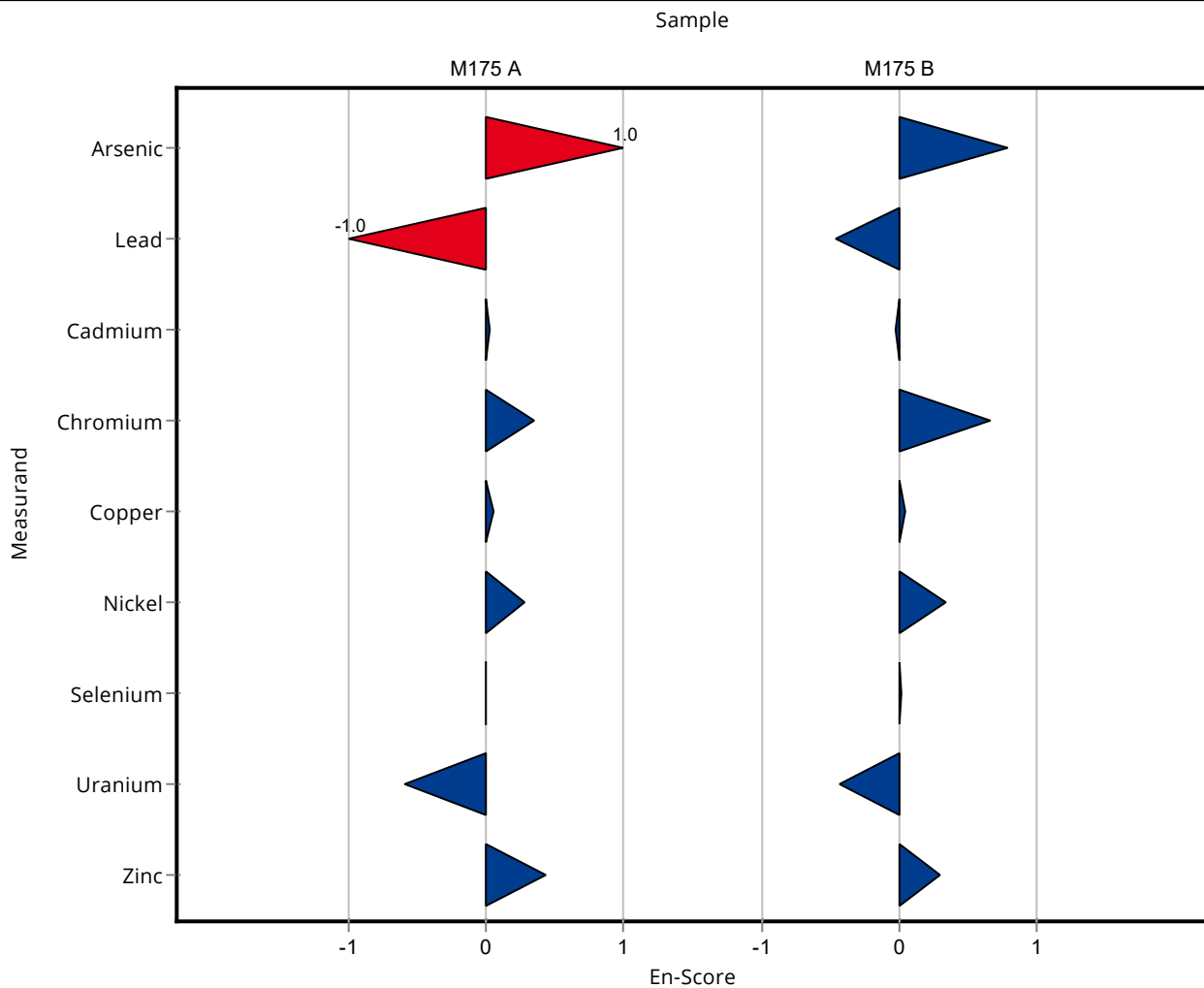
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	- ± -	61.6	-	-
Arsenic	µg/l	10.2 ± 0.177	11.307 ± 0.69	1.33	111	0.79
Lead	µg/l	17.7 ± 0.414	16.424 ± 1.347	1.77	92.8	-0.47
Cadmium	µg/l	4.92 ± 0.0597	4.893 ± 0.416	0.492	99.5	-0.03
Chromium	µg/l	30.7 ± 0.674	33.969 ± 2.446	2.61	111	0.66

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	- ± -	7.94	-	-
Copper	µg/l	41.7 ± 0.556	42.108 ± 5.137	3.75	101	0.04
Manganese	µg/l	59.9 ± 0.938	- ± -	4.31	-	-
Nickel	µg/l	14 ± 0.308	15.075 ± 1.523	1.68	107	0.34
Selenium	µg/l	13.1 ± 0.352	13.113 ± 1.705	1.57	100	0.02
Uranium	µg/l	1.35 ± 0.0379	1.236 ± 0.135	0.0893	91.4	-0.43
Zinc	µg/l	1550 ± 29.4	1650.32 ± 161.731	140	106	0.30

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	74.79 ± 7.48	7.26	103	0.30
Arsenic	µg/l	3.46 ± 0.0848	3.54 ± 0.35	0.449	102	0.19
Lead	µg/l	1.84 ± 0.0805	1.58 ± 0.16	0.184	86.1	-1.39
Cadmium	µg/l	1.53 ± 0.0318	1.592 ± 0.16	0.153	104	0.40
Chromium	µg/l	1.23 ± 0.07	1.51 ± 0.15	0.16	123	1.77
Iron	µg/l	23.6 ± 1.46	388.1 ± 38.8	3.53	1650	103.17
Copper	µg/l	8.84 ± 0.148	9.01 ± 0.9	0.796	102	0.21
Manganese	µg/l	26.9 ± 0.565	27.16 ± 2.72	1.94	101	0.12
Nickel	µg/l	3.58 ± 0.0927	3.71 ± 0.37	0.43	104	0.30
Selenium	µg/l	3.37 ± 0.105	4.71 ± 0.47	0.405	140	3.31
Uranium	µg/l	2.05 ± 0.0519	2.11 ± 0.21	0.135	103	0.42
Zinc	µg/l	342 ± 8.95	304.2 ± 30.4	30.8	89	-1.22

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.75 ± 0.08	0.0801	131	2.22

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	634.2 ± 63.4	61.6	103	0.30
Arsenic	µg/l	10.2 ± 0.177	10.18 ± 1.02	1.33	99.7	-0.03
Lead	µg/l	17.7 ± 0.414	18.23 ± 1.8	1.77	103	0.30
Cadmium	µg/l	4.92 ± 0.0597	5.03 ± 0.5	0.492	102	0.22
Chromium	µg/l	30.7 ± 0.674	30.2 ± 3	2.61	98.3	-0.19
Iron	µg/l	72.2 ± 1.46	181.3 ± 18.1	7.94	251	13.74
Copper	µg/l	41.7 ± 0.556	41.6 ± 4.2	3.75	99.8	-0.02
Manganese	µg/l	59.9 ± 0.938	59.46 ± 5.9	4.31	99.2	-0.11
Nickel	µg/l	14 ± 0.308	14.01 ± 1.4	1.68	99.8	-0.01
Selenium	µg/l	13.1 ± 0.352	13.38 ± 1.3	1.57	102	0.20
Uranium	µg/l	1.35 ± 0.0379	1.4 ± 0.14	0.0893	104	0.53

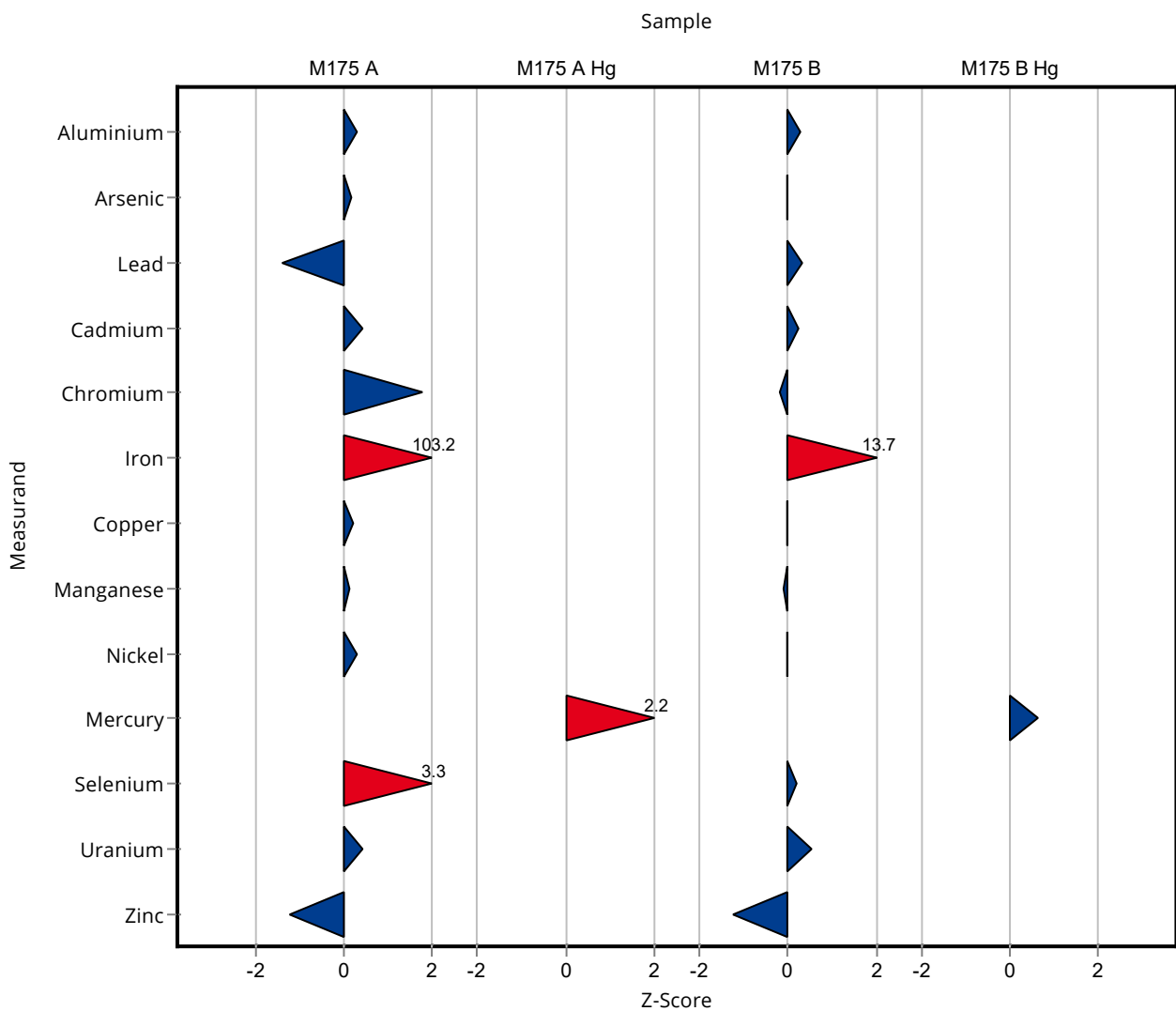
Summary of results Metals and trace elements M175

Labcode: LC0015

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1379 ± 138	140	88.7	-1.25

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.6 ± 0.26	0.334	109	0.64



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	74.79 ± 7.48	7.26	103	0.15
Arsenic	µg/l	3.46 ± 0.0848	3.54 ± 0.35	0.449	102	0.12
Lead	µg/l	1.84 ± 0.0805	1.58 ± 0.16	0.184	86.1	-0.78
Cadmium	µg/l	1.53 ± 0.0318	1.592 ± 0.16	0.153	104	0.19
Chromium	µg/l	1.23 ± 0.07	1.51 ± 0.15	0.16	123	0.92
Iron	µg/l	23.6 ± 1.46	388.1 ± 38.8	3.53	1650	4.70
Copper	µg/l	8.84 ± 0.148	9.01 ± 0.9	0.796	102	0.09
Manganese	µg/l	26.9 ± 0.565	27.16 ± 2.72	1.94	101	0.04
Nickel	µg/l	3.58 ± 0.0927	3.71 ± 0.37	0.43	104	0.17
Selenium	µg/l	3.37 ± 0.105	4.71 ± 0.47	0.405	140	1.41
Uranium	µg/l	2.05 ± 0.0519	2.11 ± 0.21	0.135	103	0.13
Zinc	µg/l	342 ± 8.95	304.2 ± 30.4	30.8	89	-0.61

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.75 ± 0.08	0.0801	131	1.10

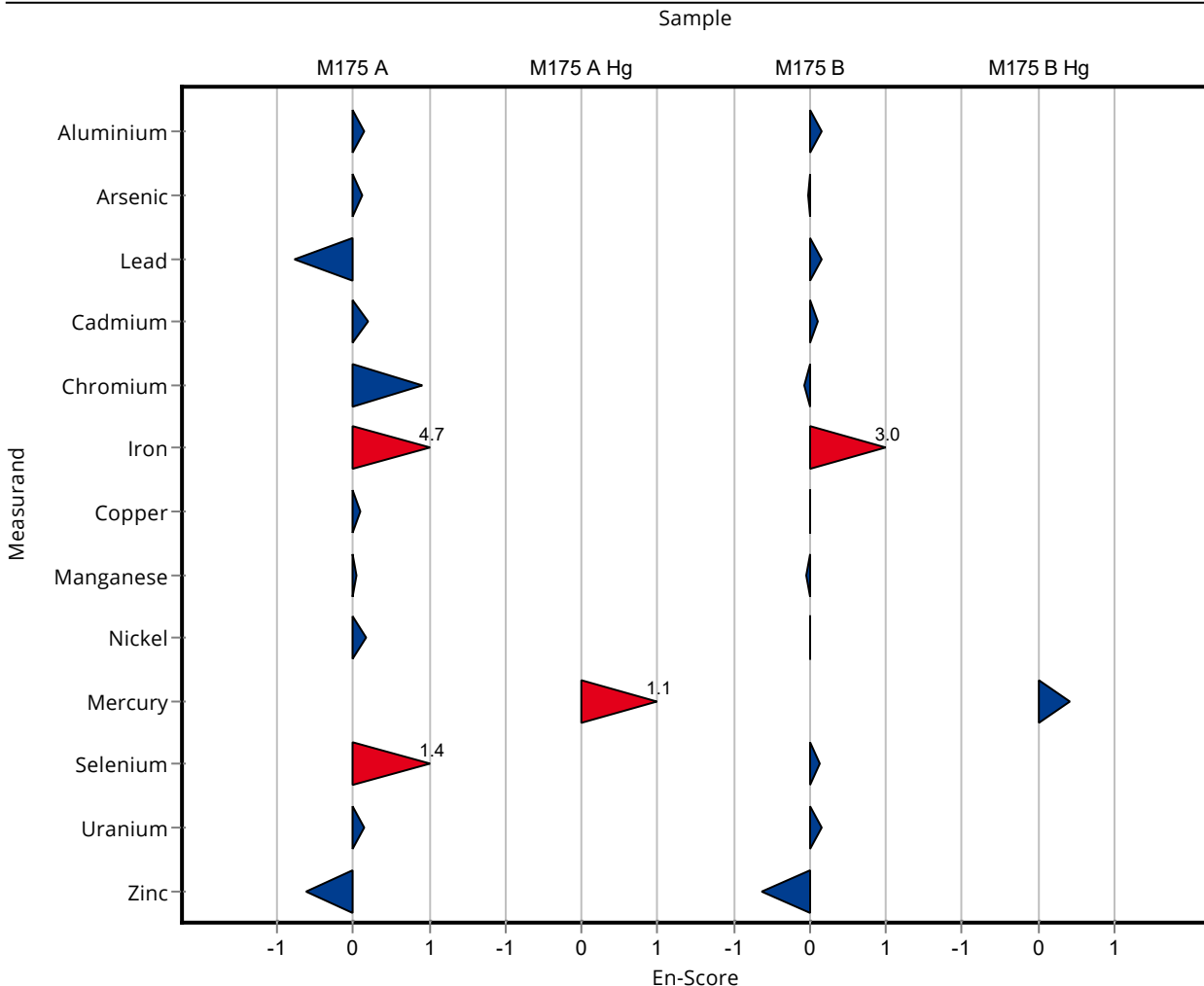
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	634.2 ± 63.4	61.6	103	0.14
Arsenic	µg/l	10.2 ± 0.177	10.18 ± 1.02	1.33	99.7	-0.02
Lead	µg/l	17.7 ± 0.414	18.23 ± 1.8	1.77	103	0.15
Cadmium	µg/l	4.92 ± 0.0597	5.03 ± 0.5	0.492	102	0.11
Chromium	µg/l	30.7 ± 0.674	30.2 ± 3	2.61	98.3	-0.08

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	181.3 ± 18.1	7.94	251	3.01
Copper	µg/l	41.7 ± 0.556	41.6 ± 4.2	3.75	99.8	-0.01
Manganese	µg/l	59.9 ± 0.938	59.46 ± 5.9	4.31	99.2	-0.04
Nickel	µg/l	14 ± 0.308	14.01 ± 1.4	1.68	99.8	-0.01
Selenium	µg/l	13.1 ± 0.352	13.38 ± 1.3	1.57	102	0.12
Uranium	µg/l	1.35 ± 0.0379	1.4 ± 0.14	0.0893	104	0.17
Zinc	µg/l	1550 ± 29.4	1379 ± 138	140	88.7	-0.63

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.6 ± 0.26	0.334	109	0.41



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	68.2 ± 6.82	7.26	94	-0.60
Arsenic	µg/l	3.46 ± 0.0848	3.7 ± 0.56	0.449	107	0.54
Lead	µg/l	1.84 ± 0.0805	1.8 ± 0.18	0.184	98	-0.20
Cadmium	µg/l	1.53 ± 0.0318	1.6 ± 0.16	0.153	105	0.46
Chromium	µg/l	1.23 ± 0.07	1.4 ± 0.14	0.16	114	1.08
Iron	µg/l	23.6 ± 1.46	24.5 ± 2.45	3.53	104	0.27
Copper	µg/l	8.84 ± 0.148	8.8 ± 0.88	0.796	99.5	-0.05
Manganese	µg/l	26.9 ± 0.565	24.3 ± 2.43	1.94	90.3	-1.35
Nickel	µg/l	3.58 ± 0.0927	3.8 ± 0.38	0.43	106	0.51
Selenium	µg/l	3.37 ± 0.105	3.8 ± 0.57	0.405	113	1.06
Uranium	µg/l	2.05 ± 0.0519	2.2 ± 0.22	0.135	107	1.09
Zinc	µg/l	342 ± 8.95	343 ± 34.3	30.8	100	0.04

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.56 ± 0.056	0.0801	97.8	-0.16

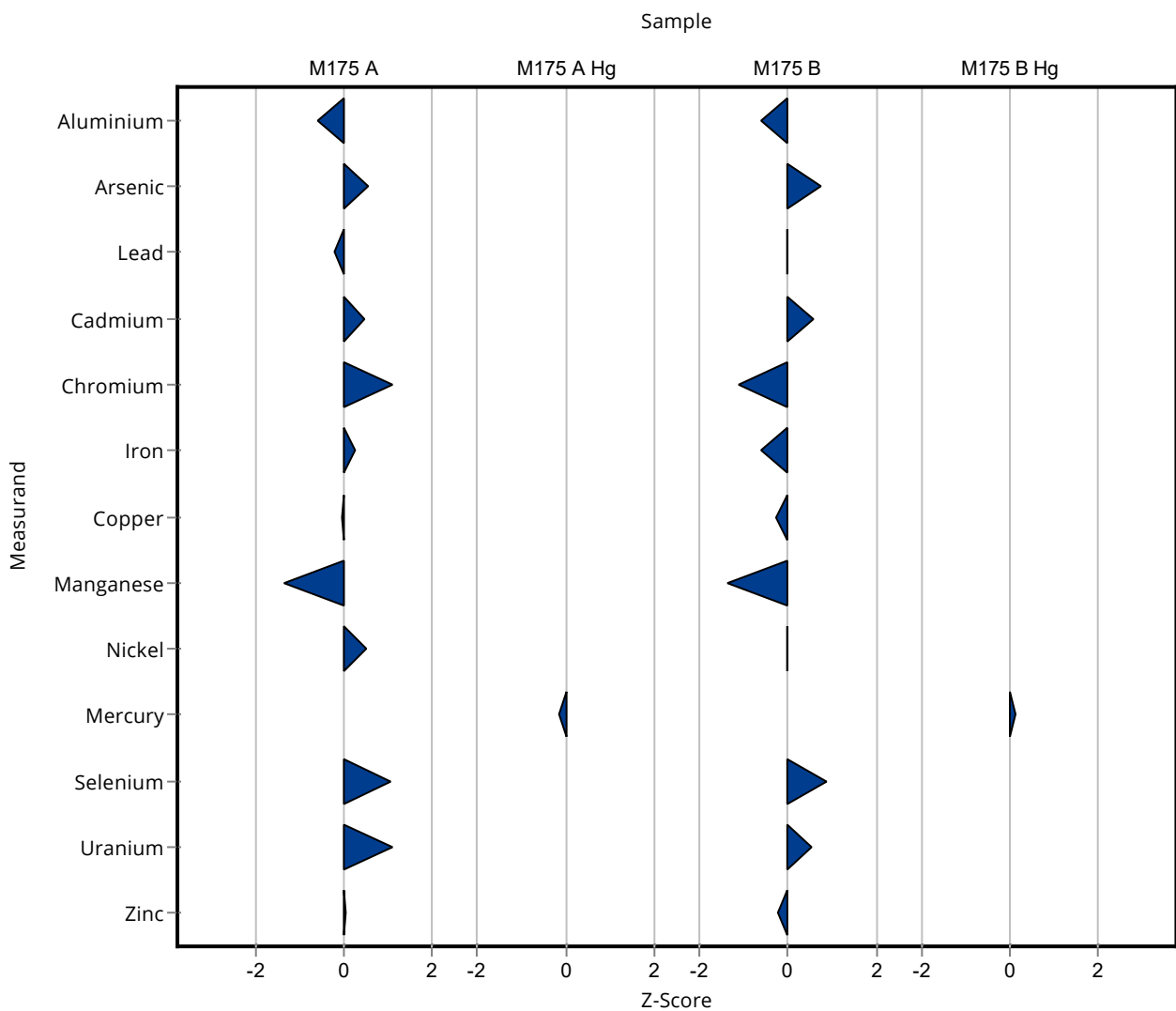
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	579 ± 57.9	61.6	94	-0.60
Arsenic	µg/l	10.2 ± 0.177	11.2 ± 1.68	1.33	110	0.74
Lead	µg/l	17.7 ± 0.414	17.7 ± 1.77	1.77	100	0.00
Cadmium	µg/l	4.92 ± 0.0597	5.2 ± 0.52	0.492	106	0.57
Chromium	µg/l	30.7 ± 0.674	27.8 ± 2.78	2.61	90.5	-1.11
Iron	µg/l	72.2 ± 1.46	67.3 ± 6.73	7.94	93.2	-0.61
Copper	µg/l	41.7 ± 0.556	40.7 ± 4.07	3.75	97.7	-0.26
Manganese	µg/l	59.9 ± 0.938	54.1 ± 5.41	4.31	90.3	-1.35
Nickel	µg/l	14 ± 0.308	14 ± 1.4	1.68	99.8	-0.02
Selenium	µg/l	13.1 ± 0.352	14.4 ± 2.16	1.57	110	0.85
Uranium	µg/l	1.35 ± 0.0379	1.4 ± 0.14	0.0893	104	0.53

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1525 ± 153	140	98.1	-0.21

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.43 ± 0.243	0.334	102	0.13



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	68.2 ± 6.82	7.26	94	-0.32
Arsenic	µg/l	3.46 ± 0.0848	3.7 ± 0.56	0.449	107	0.22
Lead	µg/l	1.84 ± 0.0805	1.8 ± 0.18	0.184	98	-0.10
Cadmium	µg/l	1.53 ± 0.0318	1.6 ± 0.16	0.153	105	0.22
Chromium	µg/l	1.23 ± 0.07	1.4 ± 0.14	0.16	114	0.60
Iron	µg/l	23.6 ± 1.46	24.5 ± 2.45	3.53	104	0.18
Copper	µg/l	8.84 ± 0.148	8.8 ± 0.88	0.796	99.5	-0.02
Manganese	µg/l	26.9 ± 0.565	24.3 ± 2.43	1.94	90.3	-0.54
Nickel	µg/l	3.58 ± 0.0927	3.8 ± 0.38	0.43	106	0.29
Selenium	µg/l	3.37 ± 0.105	3.8 ± 0.57	0.405	113	0.37
Uranium	µg/l	2.05 ± 0.0519	2.2 ± 0.22	0.135	107	0.33
Zinc	µg/l	342 ± 8.95	343 ± 34.3	30.8	100	0.02

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.56 ± 0.056	0.0801	97.8	-0.11

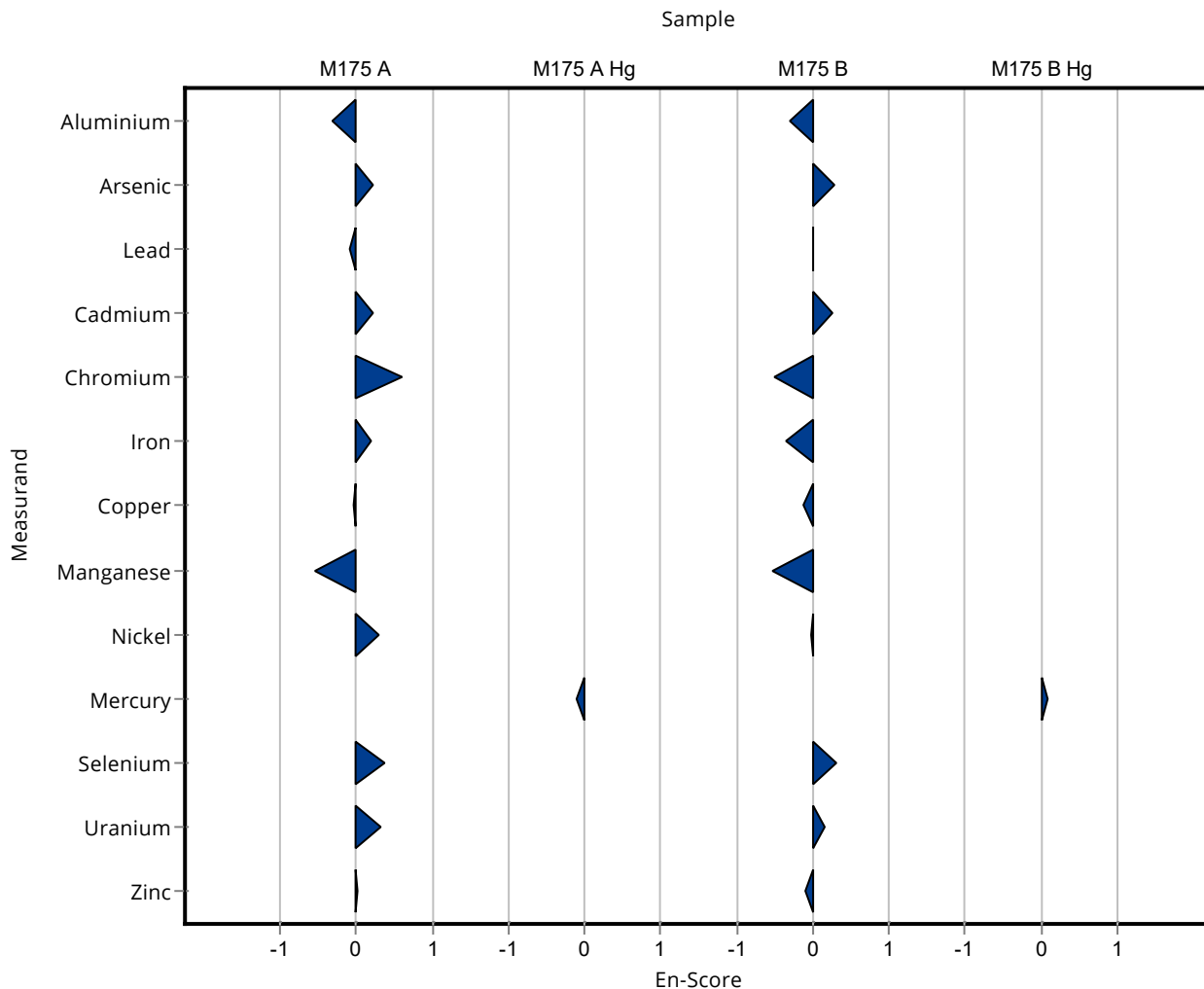
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	579 ± 57.9	61.6	94	-0.32
Arsenic	µg/l	10.2 ± 0.177	11.2 ± 1.68	1.33	110	0.29
Lead	µg/l	17.7 ± 0.414	17.7 ± 1.77	1.77	100	0.00
Cadmium	µg/l	4.92 ± 0.0597	5.2 ± 0.52	0.492	106	0.27
Chromium	µg/l	30.7 ± 0.674	27.8 ± 2.78	2.61	90.5	-0.52

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	67.3 ± 6.73	7.94	93.2	-0.36
Copper	µg/l	41.7 ± 0.556	40.7 ± 4.07	3.75	97.7	-0.12
Manganese	µg/l	59.9 ± 0.938	54.1 ± 5.41	4.31	90.3	-0.54
Nickel	µg/l	14 ± 0.308	14 ± 1.4	1.68	99.8	-0.01
Selenium	µg/l	13.1 ± 0.352	14.4 ± 2.16	1.57	110	0.31
Uranium	µg/l	1.35 ± 0.0379	1.4 ± 0.14	0.0893	104	0.17
Zinc	µg/l	1550 ± 29.4	1525 ± 153	140	98.1	-0.09

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.43 ± 0.243	0.334	102	0.09



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	72.7 ± 2.4	7.26	100	0.02
Arsenic	µg/l	3.46 ± 0.0848	3.26 ± 0.18	0.449	94.3	-0.44
Lead	µg/l	1.84 ± 0.0805	1.79 ± 0.031	0.184	97.5	-0.25
Cadmium	µg/l	1.53 ± 0.0318	1.53 ± 0.05	0.153	100	0.00
Chromium	µg/l	1.23 ± 0.07	1.09 ± 0.06	0.16	88.8	-0.86
Iron	µg/l	23.6 ± 1.46	21 ± 0.61	3.53	89.1	-0.72
Copper	µg/l	8.84 ± 0.148	8.23 ± 0.28	0.796	93.1	-0.77
Manganese	µg/l	26.9 ± 0.565	26.7 ± 0.74	1.94	99.2	-0.11
Nickel	µg/l	3.58 ± 0.0927	3.29 ± 0.14	0.43	91.9	-0.68
Selenium	µg/l	3.37 ± 0.105	3.42 ± 0.18	0.405	101	0.12
Uranium	µg/l	2.05 ± 0.0519	2.08 ± 0.032	0.135	101	0.20
Zinc	µg/l	342 ± 8.95	322 ± 11.8	30.8	94.2	-0.64

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.579 ± 0.04	0.0801	101	0.08

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	624 ± 32.3	61.6	101	0.13
Arsenic	µg/l	10.2 ± 0.177	10.1 ± 0.62	1.33	98.9	-0.09
Lead	µg/l	17.7 ± 0.414	17.2 ± 0.53	1.77	97.2	-0.28
Cadmium	µg/l	4.92 ± 0.0597	4.8 ± 0.2	0.492	97.6	-0.24
Chromium	µg/l	30.7 ± 0.674	28.5 ± 1.08	2.61	92.8	-0.85
Iron	µg/l	72.2 ± 1.46	65.3 ± 2.18	7.94	90.5	-0.87
Copper	µg/l	41.7 ± 0.556	39 ± 1.18	3.75	93.6	-0.71
Manganese	µg/l	59.9 ± 0.938	59.1 ± 2.26	4.31	98.6	-0.19
Nickel	µg/l	14 ± 0.308	12.8 ± 0.53	1.68	91.2	-0.73
Selenium	µg/l	13.1 ± 0.352	12.8 ± 0.58	1.57	98	-0.17
Uranium	µg/l	1.35 ± 0.0379	1.35 ± 0.038	0.0893	99.8	-0.03

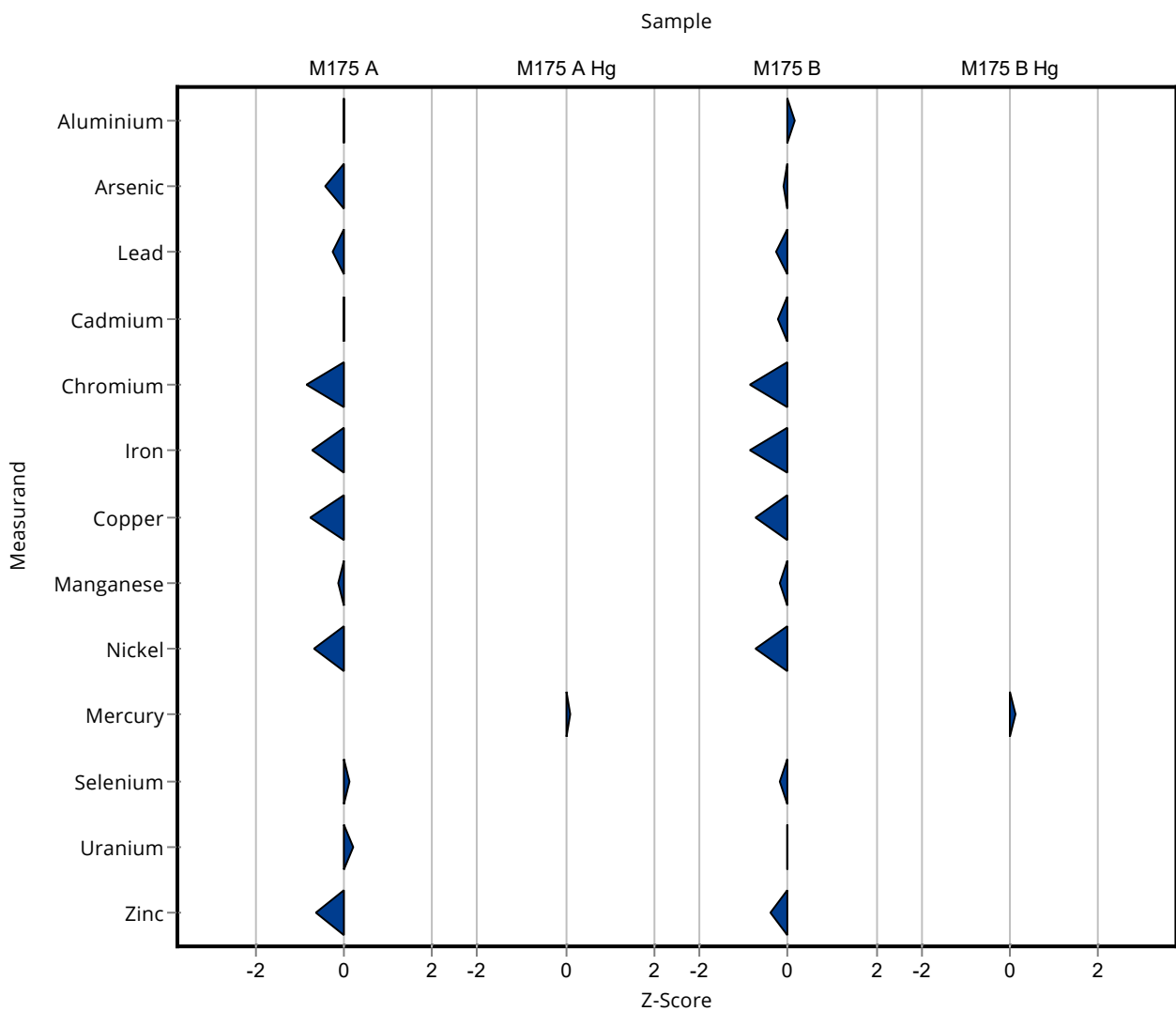
Summary of results Metals and trace elements M175

Labcode: LC0017

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1500 ± 127	140	96.5	-0.39

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.43 ± 0.15	0.334	102	0.13



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	72.7 ± 2.4	7.26	100	0.02
Arsenic	µg/l	3.46 ± 0.0848	3.26 ± 0.18	0.449	94.3	-0.53
Lead	µg/l	1.84 ± 0.0805	1.79 ± 0.031	0.184	97.5	-0.45
Cadmium	µg/l	1.53 ± 0.0318	1.53 ± 0.05	0.153	100	0.00
Chromium	µg/l	1.23 ± 0.07	1.09 ± 0.06	0.16	88.8	-0.99
Iron	µg/l	23.6 ± 1.46	21 ± 0.61	3.53	89.1	-1.34
Copper	µg/l	8.84 ± 0.148	8.23 ± 0.28	0.796	93.1	-1.06
Manganese	µg/l	26.9 ± 0.565	26.7 ± 0.74	1.94	99.2	-0.14
Nickel	µg/l	3.58 ± 0.0927	3.29 ± 0.14	0.43	91.9	-0.99
Selenium	µg/l	3.37 ± 0.105	3.42 ± 0.18	0.405	101	0.13
Uranium	µg/l	2.05 ± 0.0519	2.08 ± 0.032	0.135	101	0.33
Zinc	µg/l	342 ± 8.95	322 ± 11.8	30.8	94.2	-0.78

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.579 ± 0.04	0.0801	101	0.08

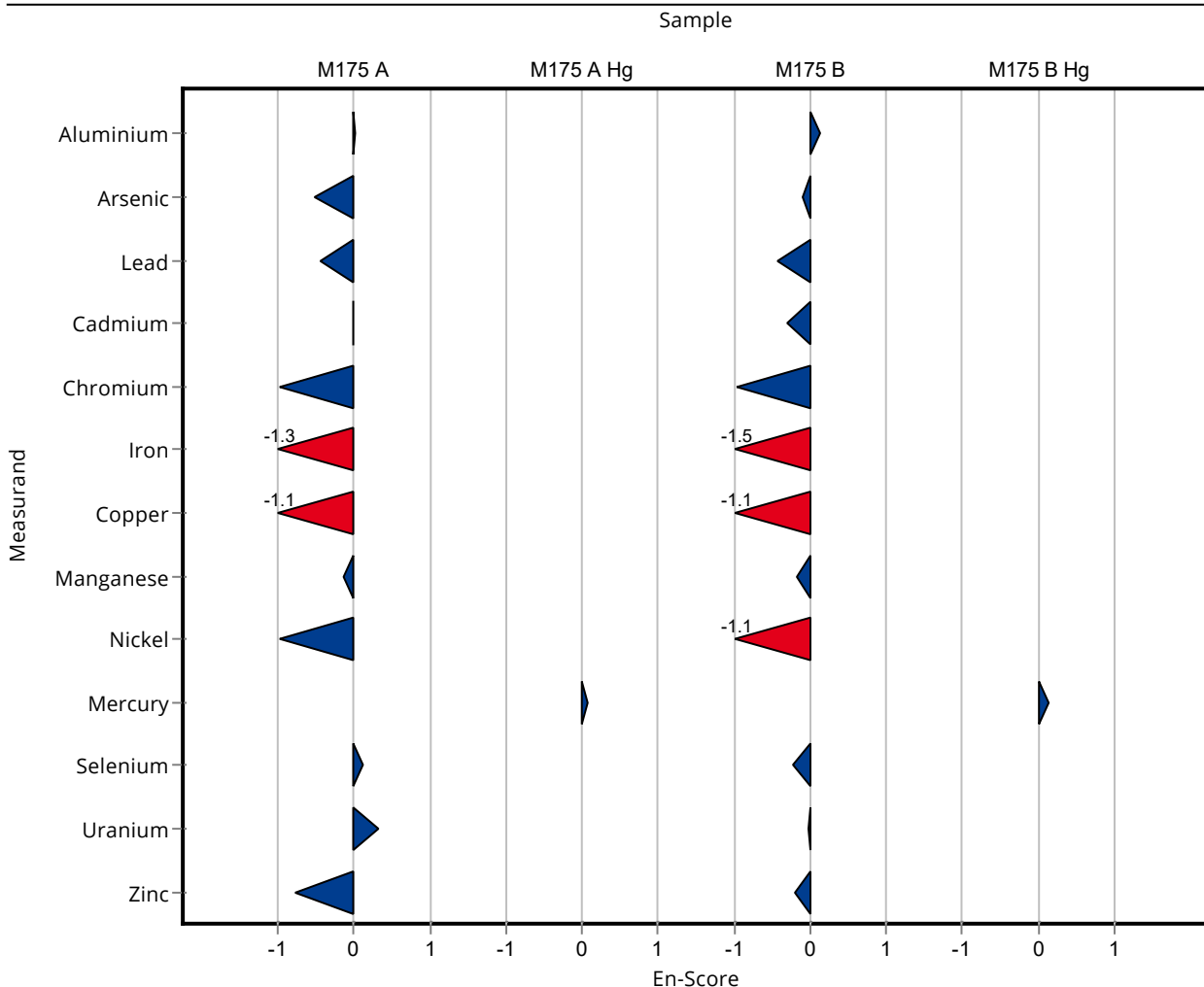
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	624 ± 32.3	61.6	101	0.13
Arsenic	µg/l	10.2 ± 0.177	10.1 ± 0.62	1.33	98.9	-0.09
Lead	µg/l	17.7 ± 0.414	17.2 ± 0.53	1.77	97.2	-0.43
Cadmium	µg/l	4.92 ± 0.0597	4.8 ± 0.2	0.492	97.6	-0.30
Chromium	µg/l	30.7 ± 0.674	28.5 ± 1.08	2.61	92.8	-0.98

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	65.3 ± 2.18	7.94	90.5	-1.50
Copper	µg/l	41.7 ± 0.556	39 ± 1.18	3.75	93.6	-1.10
Manganese	µg/l	59.9 ± 0.938	59.1 ± 2.26	4.31	98.6	-0.18
Nickel	µg/l	14 ± 0.308	12.8 ± 0.53	1.68	91.2	-1.12
Selenium	µg/l	13.1 ± 0.352	12.8 ± 0.58	1.57	98	-0.22
Uranium	µg/l	1.35 ± 0.0379	1.35 ± 0.038	0.0893	99.8	-0.03
Zinc	µg/l	1550 ± 29.4	1500 ± 127	140	96.5	-0.21

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.43 ± 0.15	0.334	102	0.14



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	72.2 ± 3.47	7.26	99.5	-0.05
Arsenic	µg/l	3.46 ± 0.0848	3.19 ± 0.21	0.449	92.3	-0.59
Lead	µg/l	1.84 ± 0.0805	3.6 ± 0.24	0.184	196	9.61
Cadmium	µg/l	1.53 ± 0.0318	1.47 ± 0.09	0.153	96.1	-0.39
Chromium	µg/l	1.23 ± 0.07	1.05 ± 0.06	0.16	85.6	-1.11
Iron	µg/l	23.6 ± 1.46	22.2 ± 1.49	3.53	94.2	-0.38
Copper	µg/l	8.84 ± 0.148	8.6 ± 0.34	0.796	97.3	-0.31
Manganese	µg/l	26.9 ± 0.565	26.7 ± 0.96	1.94	99.2	-0.11
Nickel	µg/l	3.58 ± 0.0927	3.4 ± 0.27	0.43	94.9	-0.42
Selenium	µg/l	3.37 ± 0.105	3.23 ± 0.25	0.405	95.8	-0.35
Uranium	µg/l	2.05 ± 0.0519	1.87 ± 0.07	0.135	91.1	-1.35
Zinc	µg/l	342 ± 8.95	360 ± 16.5	30.8	105	0.60

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	664.7 ± 32	61.6	108	0.79
Arsenic	µg/l	10.2 ± 0.177	9.67 ± 0.65	1.33	94.7	-0.41
Lead	µg/l	17.7 ± 0.414	17.4 ± 1.15	1.77	98.3	-0.17
Cadmium	µg/l	4.92 ± 0.0597	4.66 ± 0.27	0.492	94.7	-0.53
Chromium	µg/l	30.7 ± 0.674	29.95 ± 1.83	2.61	97.5	-0.29
Iron	µg/l	72.2 ± 1.46	71 ± 4.76	7.94	98.4	-0.15
Copper	µg/l	41.7 ± 0.556	40.5 ± 1.42	3.75	97.2	-0.31
Manganese	µg/l	59.9 ± 0.938	59.1 ± 2.13	4.31	98.6	-0.19
Nickel	µg/l	14 ± 0.308	14.1 ± 1.1	1.68	100	0.04
Selenium	µg/l	13.1 ± 0.352	12.53 ± 0.98	1.57	95.9	-0.34
Uranium	µg/l	1.35 ± 0.0379	1.22 ± 0.05	0.0893	90.2	-1.48

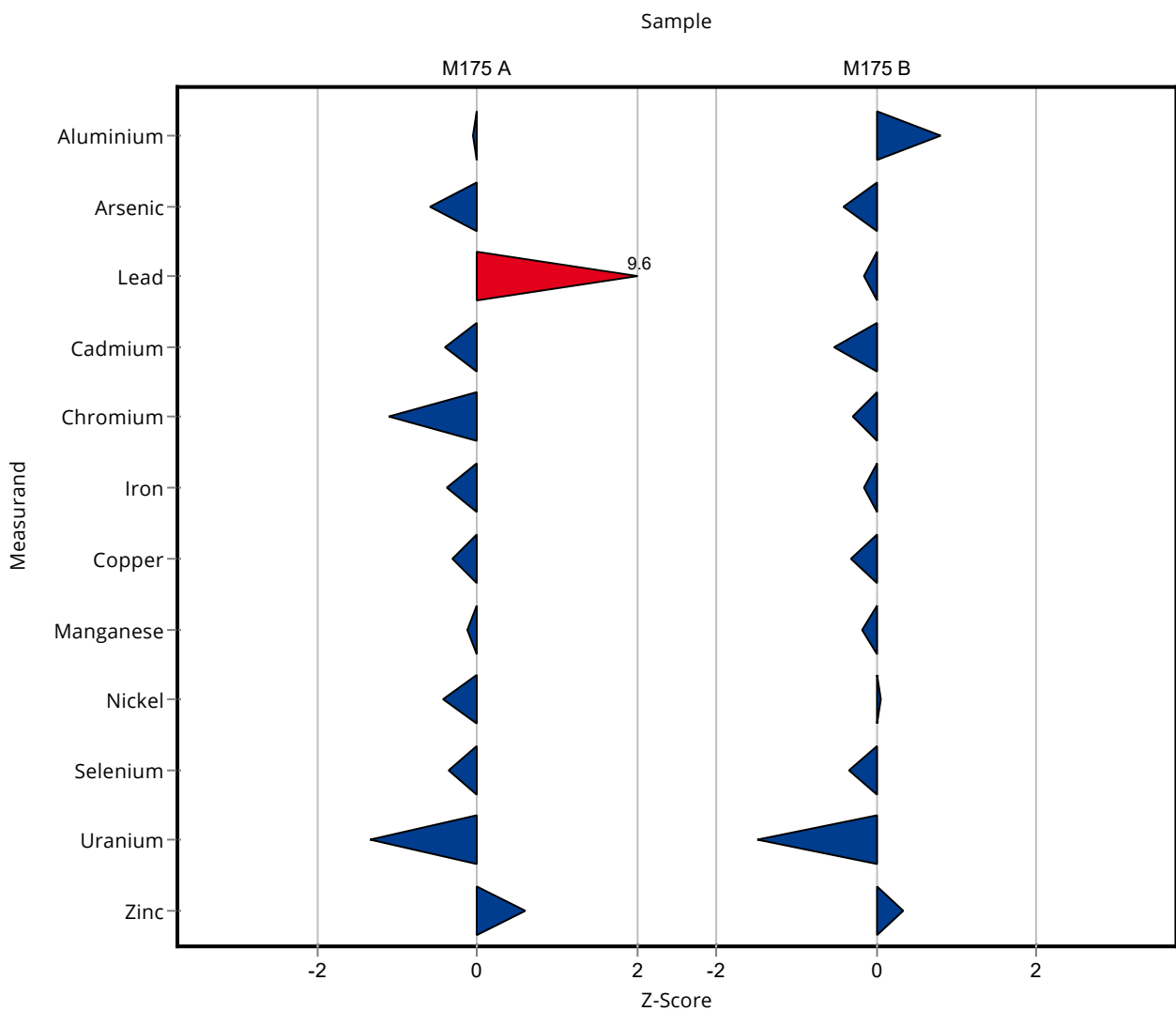
Summary of results Metals and trace elements M175

Labcode: LC0018

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1600 ± 74	140	103	0.33

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	72.2 ± 3.47	7.26	99.5	-0.05
Arsenic	µg/l	3.46 ± 0.0848	3.19 ± 0.21	0.449	92.3	-0.62
Lead	µg/l	1.84 ± 0.0805	3.6 ± 0.24	0.184	196	3.62
Cadmium	µg/l	1.53 ± 0.0318	1.47 ± 0.09	0.153	96.1	-0.33
Chromium	µg/l	1.23 ± 0.07	1.05 ± 0.06	0.16	85.6	-1.27
Iron	µg/l	23.6 ± 1.46	22.2 ± 1.49	3.53	94.2	-0.41
Copper	µg/l	8.84 ± 0.148	8.6 ± 0.34	0.796	97.3	-0.35
Manganese	µg/l	26.9 ± 0.565	26.7 ± 0.96	1.94	99.2	-0.11
Nickel	µg/l	3.58 ± 0.0927	3.4 ± 0.27	0.43	94.9	-0.33
Selenium	µg/l	3.37 ± 0.105	3.23 ± 0.25	0.405	95.8	-0.28
Uranium	µg/l	2.05 ± 0.0519	1.87 ± 0.07	0.135	91.1	-1.22
Zinc	µg/l	342 ± 8.95	360 ± 16.5	30.8	105	0.54

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

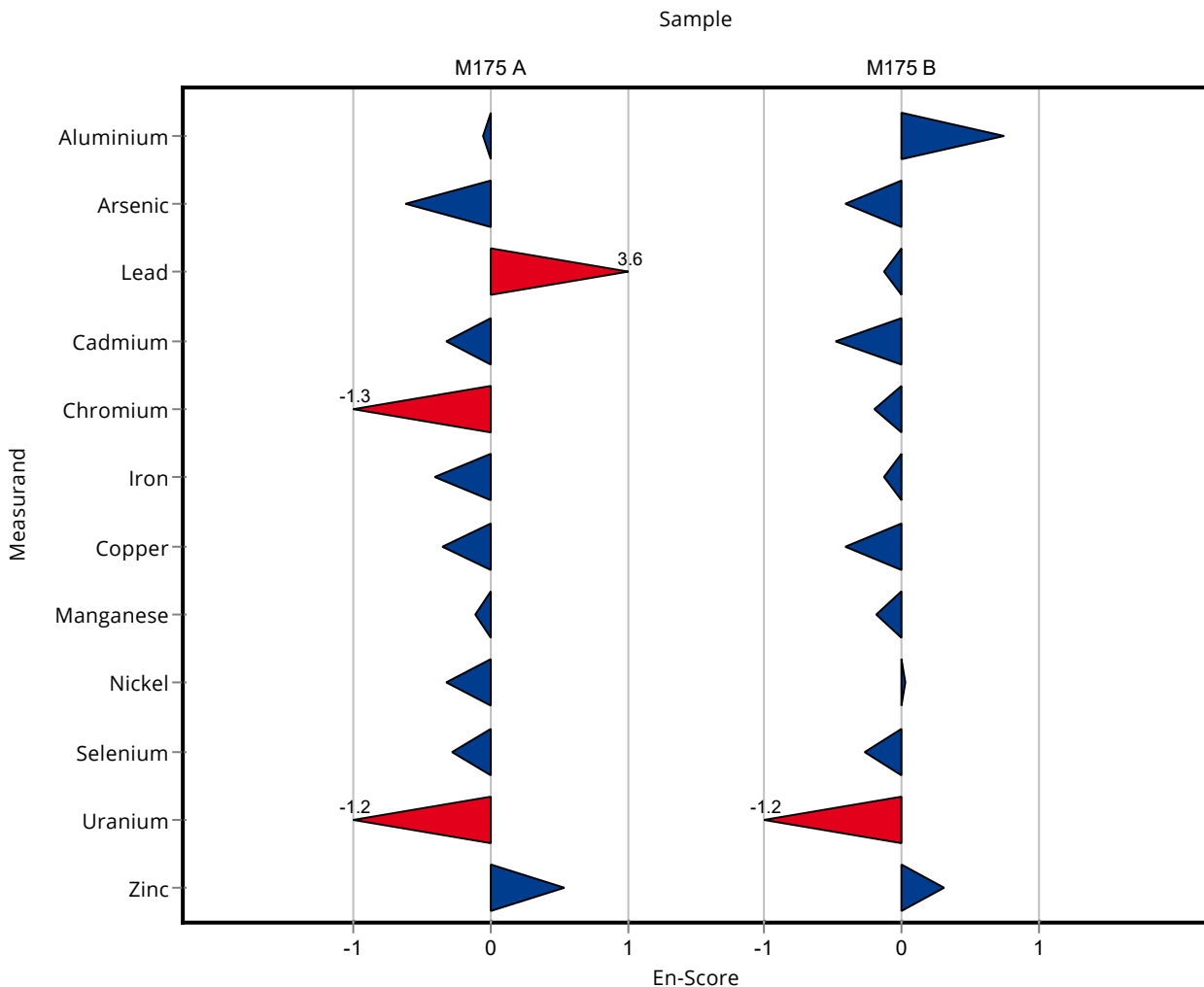
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	664.7 ± 32	61.6	108	0.75
Arsenic	µg/l	10.2 ± 0.177	9.67 ± 0.65	1.33	94.7	-0.41
Lead	µg/l	17.7 ± 0.414	17.4 ± 1.15	1.77	98.3	-0.13
Cadmium	µg/l	4.92 ± 0.0597	4.66 ± 0.27	0.492	94.7	-0.48
Chromium	µg/l	30.7 ± 0.674	29.95 ± 1.83	2.61	97.5	-0.20

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	71 ± 4.76	7.94	98.4	-0.12
Copper	µg/l	41.7 ± 0.556	40.5 ± 1.42	3.75	97.2	-0.41
Manganese	µg/l	59.9 ± 0.938	59.1 ± 2.13	4.31	98.6	-0.19
Nickel	µg/l	14 ± 0.308	14.1 ± 1.1	1.68	100	0.03
Selenium	µg/l	13.1 ± 0.352	12.53 ± 0.98	1.57	95.9	-0.27
Uranium	µg/l	1.35 ± 0.0379	1.22 ± 0.05	0.0893	90.2	-1.24
Zinc	µg/l	1550 ± 29.4	1600 ± 74	140	103	0.30

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	69.37 ± 16.48	7.26	95.6	-0.44
Arsenic	µg/l	3.46 ± 0.0848	3.389 ± 0.601	0.449	98.1	-0.15
Lead	µg/l	1.84 ± 0.0805	3.773 ± 0.711	0.184	206	10.55
Cadmium	µg/l	1.53 ± 0.0318	1.614 ± 0.435	0.153	105	0.55
Chromium	µg/l	1.23 ± 0.07	1.217 ± 0.218	0.16	99.2	-0.06
Iron	µg/l	23.6 ± 1.46	32.87 ± 10.19	3.53	140	2.64
Copper	µg/l	8.84 ± 0.148	8.366 ± 1.518	0.796	94.6	-0.60
Manganese	µg/l	26.9 ± 0.565	26.95 ± 4.15	1.94	100	0.01
Nickel	µg/l	3.58 ± 0.0927	3.653 ± 0.62	0.43	102	0.17
Selenium	µg/l	3.37 ± 0.105	3.366 ± 0.8	0.405	99.8	-0.01
Uranium	µg/l	2.05 ± 0.0519	2.259 ± 0.336	0.135	110	1.52
Zinc	µg/l	342 ± 8.95	449.9 ± 50.7	30.8	132	3.52

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.5909 ± 0.123	0.0801	103	0.23

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	624 ± 148.2	61.6	101	0.13
Arsenic	µg/l	10.2 ± 0.177	10.17 ± 1.803	1.33	99.6	-0.03
Lead	µg/l	17.7 ± 0.414	17.44 ± 3.284	1.77	98.6	-0.14
Cadmium	µg/l	4.92 ± 0.0597	5.147 ± 1.388	0.492	105	0.46
Chromium	µg/l	30.7 ± 0.674	30.69 ± 5.496	2.61	99.9	-0.01
Iron	µg/l	72.2 ± 1.46	71.51 ± 22.17	7.94	99.1	-0.08
Copper	µg/l	41.7 ± 0.556	40.09 ± 7.272	3.75	96.2	-0.42
Manganese	µg/l	59.9 ± 0.938	59.14 ± 9.108	4.31	98.7	-0.18
Nickel	µg/l	14 ± 0.308	14.35 ± 2.435	1.68	102	0.19
Selenium	µg/l	13.1 ± 0.352	12.95 ± 3.08	1.57	99.2	-0.07
Uranium	µg/l	1.35 ± 0.0379	1.459 ± 0.217	0.0893	108	1.19

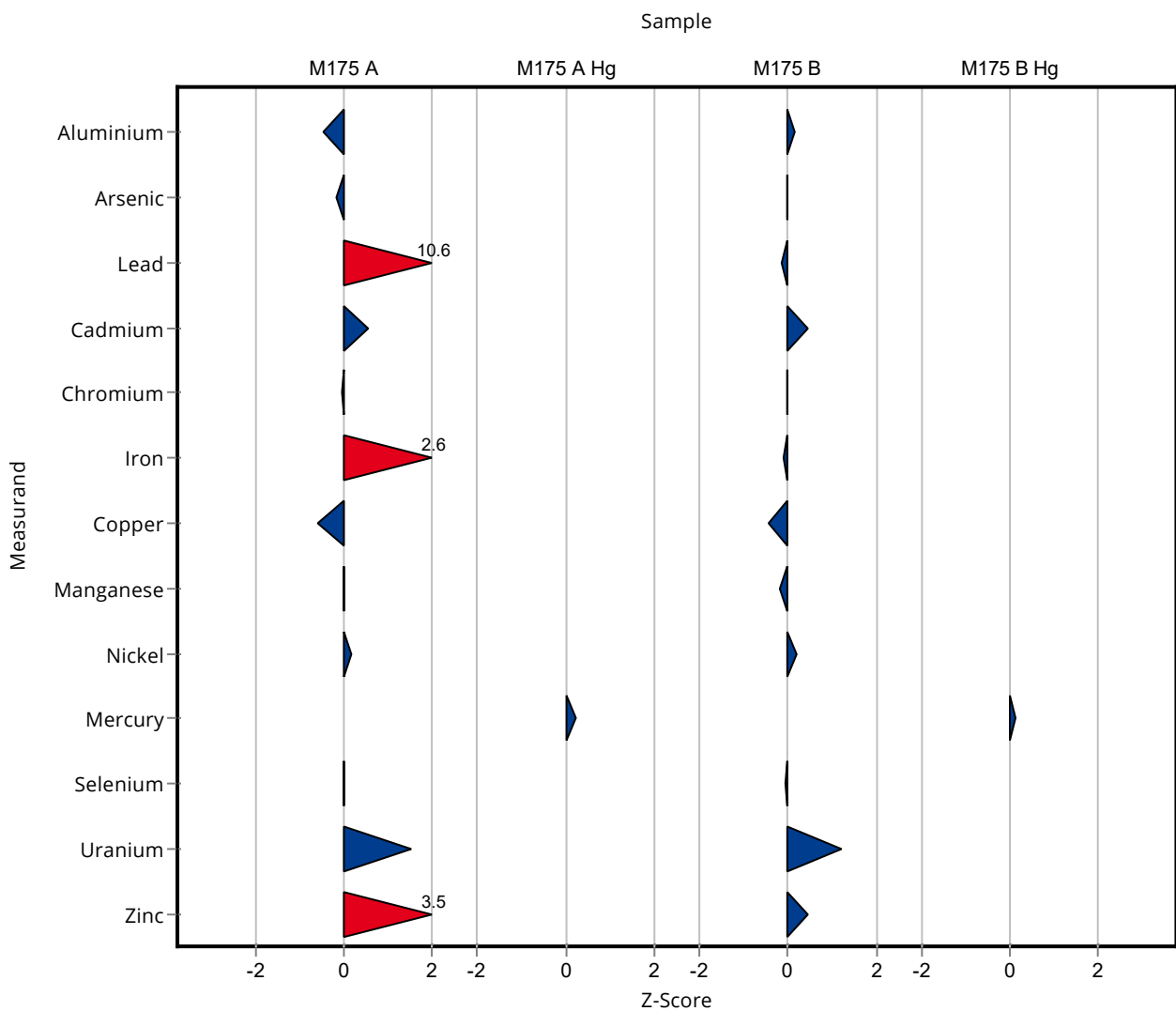
Summary of results Metals and trace elements M175

Labcode: LC0019

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1619 ± 182.4	140	104	0.46

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.4264 ± 0.504	0.334	102	0.12



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	69.37 ± 16.48	7.26	95.6	-0.10
Arsenic	µg/l	3.46 ± 0.0848	3.389 ± 0.601	0.449	98.1	-0.06
Lead	µg/l	1.84 ± 0.0805	3.773 ± 0.711	0.184	206	1.36
Cadmium	µg/l	1.53 ± 0.0318	1.614 ± 0.435	0.153	105	0.10
Chromium	µg/l	1.23 ± 0.07	1.217 ± 0.218	0.16	99.2	-0.02
Iron	µg/l	23.6 ± 1.46	32.87 ± 10.19	3.53	140	0.46
Copper	µg/l	8.84 ± 0.148	8.366 ± 1.518	0.796	94.6	-0.16
Manganese	µg/l	26.9 ± 0.565	26.95 ± 4.15	1.94	100	0.00
Nickel	µg/l	3.58 ± 0.0927	3.653 ± 0.62	0.43	102	0.06
Selenium	µg/l	3.37 ± 0.105	3.366 ± 0.8	0.405	99.8	0.00
Uranium	µg/l	2.05 ± 0.0519	2.259 ± 0.336	0.135	110	0.31
Zinc	µg/l	342 ± 8.95	449.9 ± 50.7	30.8	132	1.06

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.5909 ± 0.123	0.0801	103	0.07

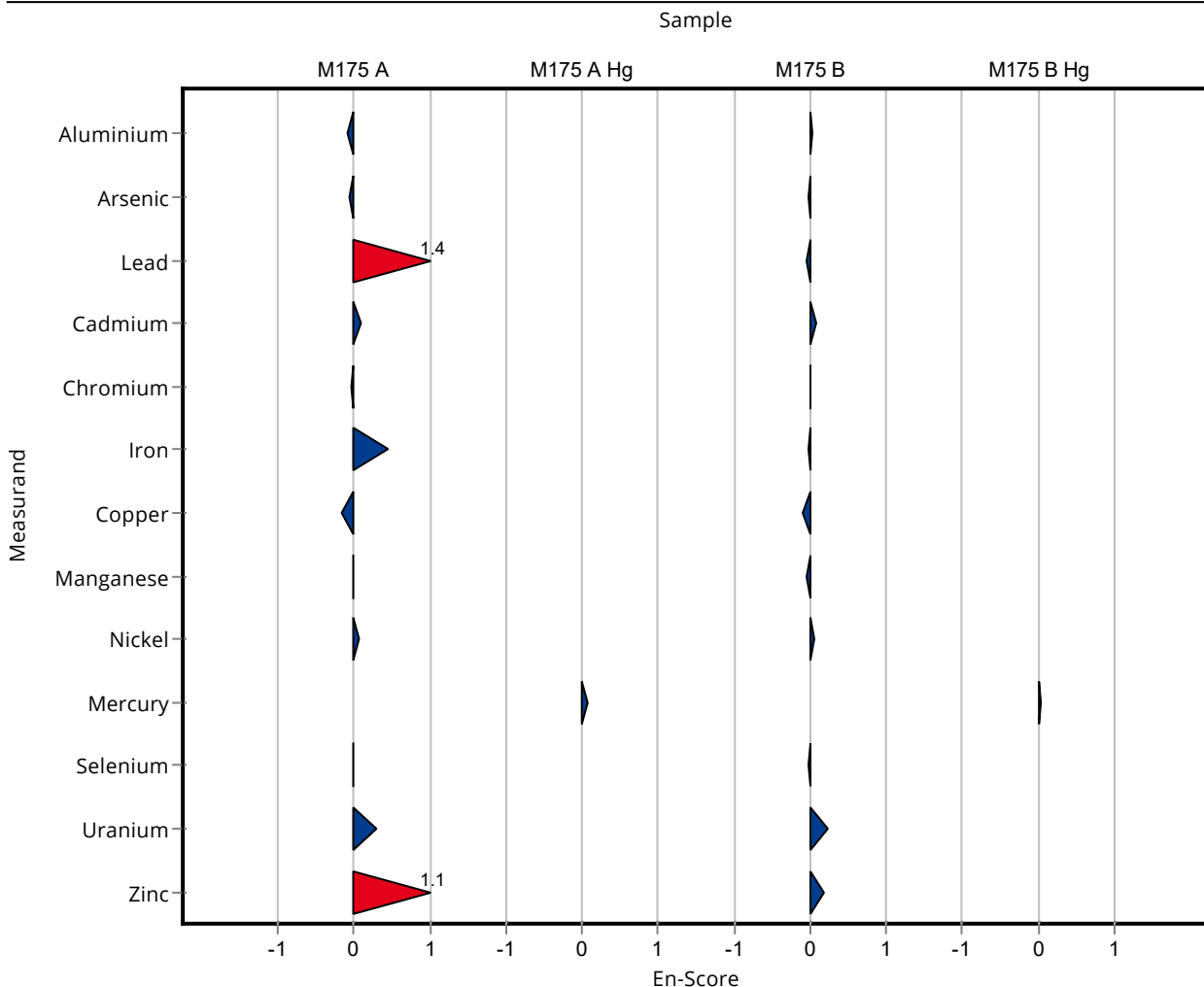
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	624 ± 148.2	61.6	101	0.03
Arsenic	µg/l	10.2 ± 0.177	10.17 ± 1.803	1.33	99.6	-0.01
Lead	µg/l	17.7 ± 0.414	17.44 ± 3.284	1.77	98.6	-0.04
Cadmium	µg/l	4.92 ± 0.0597	5.147 ± 1.388	0.492	105	0.08
Chromium	µg/l	30.7 ± 0.674	30.69 ± 5.496	2.61	99.9	0.00

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	71.51 ± 22.17	7.94	99.1	-0.02
Copper	µg/l	41.7 ± 0.556	40.09 ± 7.272	3.75	96.2	-0.11
Manganese	µg/l	59.9 ± 0.938	59.14 ± 9.108	4.31	98.7	-0.04
Nickel	µg/l	14 ± 0.308	14.35 ± 2.435	1.68	102	0.07
Selenium	µg/l	13.1 ± 0.352	12.95 ± 3.08	1.57	99.2	-0.02
Uranium	µg/l	1.35 ± 0.0379	1.459 ± 0.217	0.0893	108	0.24
Zinc	µg/l	1550 ± 29.4	1619 ± 182.4	140	104	0.18

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.4264 ± 0.504	0.334	102	0.04



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	75.8 ± 4.1	7.26	104	0.44
Arsenic	µg/l	3.46 ± 0.0848	6.33 ± 0.36	0.449	183	6.40
Lead	µg/l	1.84 ± 0.0805	2.2 ± 0.08	0.184	120	1.98
Cadmium	µg/l	1.53 ± 0.0318	1.7 ± 0.07	0.153	111	1.11
Chromium	µg/l	1.23 ± 0.07	1.3 ± 0.04	0.16	106	0.46
Iron	µg/l	23.6 ± 1.46	20.9 ± 0.73	3.53	88.7	-0.75
Copper	µg/l	8.84 ± 0.148	8.9 ± 0.51	0.796	101	0.07
Manganese	µg/l	26.9 ± 0.565	25.8 ± 0.66	1.94	95.8	-0.58
Nickel	µg/l	3.58 ± 0.0927	3.6 ± 0.15	0.43	101	0.04
Selenium	µg/l	3.37 ± 0.105	- ± -	0.405	-	-
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	338 ± 14	30.8	98.9	-0.12

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	598 ± 33	61.6	97.1	-0.29
Arsenic	µg/l	10.2 ± 0.177	12.2 ± 0.68	1.33	119	1.50
Lead	µg/l	17.7 ± 0.414	17 ± 0.61	1.77	96.1	-0.39
Cadmium	µg/l	4.92 ± 0.0597	4.9 ± 0.19	0.492	99.6	-0.04
Chromium	µg/l	30.7 ± 0.674	30.9 ± 1.02	2.61	101	0.07
Iron	µg/l	72.2 ± 1.46	69.2 ± 2.4	7.94	95.9	-0.38
Copper	µg/l	41.7 ± 0.556	43.1 ± 2.5	3.75	103	0.38
Manganese	µg/l	59.9 ± 0.938	59.5 ± 1.5	4.31	99.3	-0.10
Nickel	µg/l	14 ± 0.308	13.7 ± 0.56	1.68	97.6	-0.20
Selenium	µg/l	13.1 ± 0.352	- ± -	1.57	-	-
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-

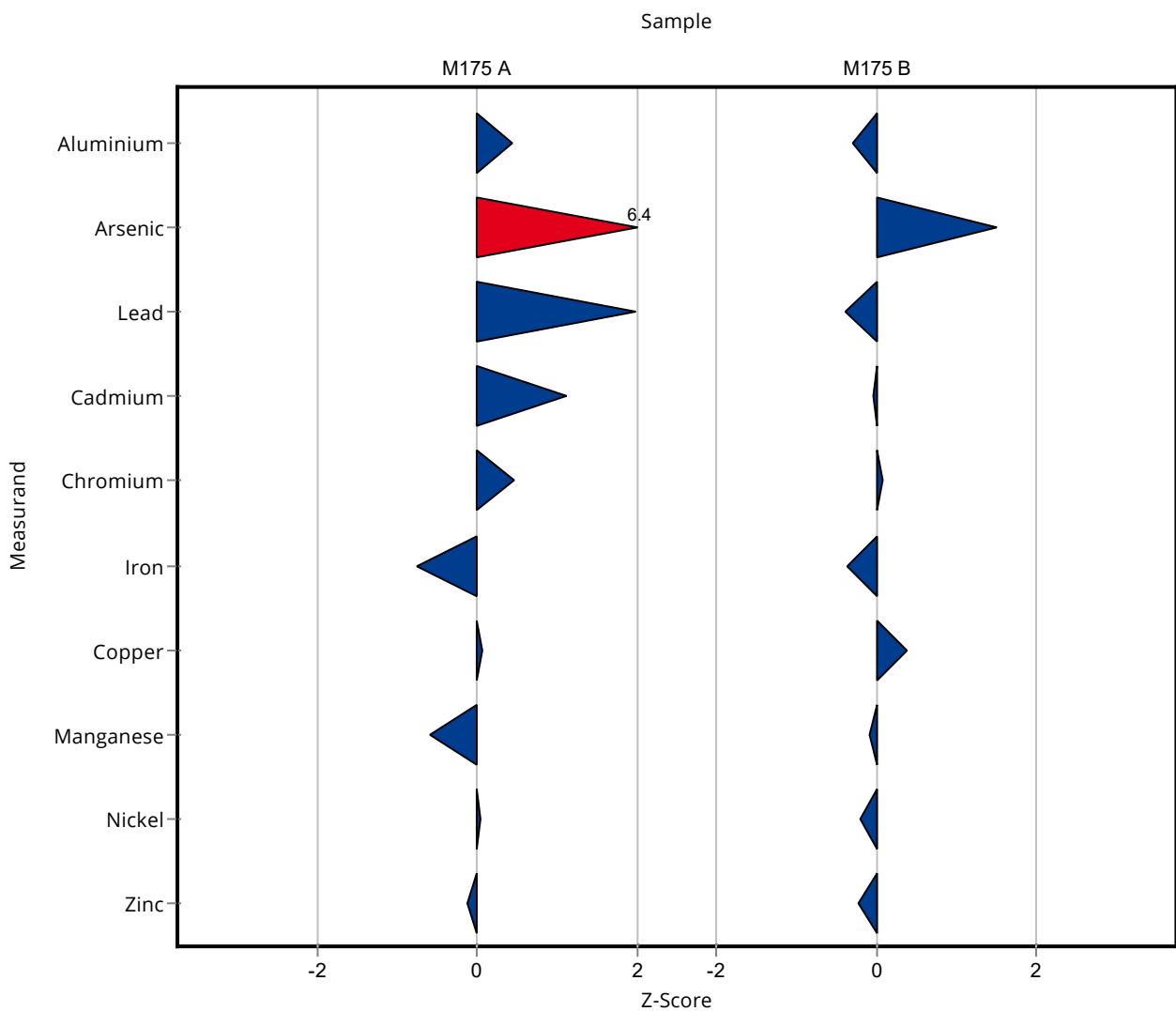
Summary of results Metals and trace elements M175

Labcode: LC0020

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1523 ± 65	140	98	-0.22

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	75.8 ± 4.1	7.26	104	0.38
Arsenic	µg/l	3.46 ± 0.0848	6.33 ± 0.36	0.449	183	3.96
Lead	µg/l	1.84 ± 0.0805	2.2 ± 0.08	0.184	120	2.03
Cadmium	µg/l	1.53 ± 0.0318	1.7 ± 0.07	0.153	111	1.18
Chromium	µg/l	1.23 ± 0.07	1.3 ± 0.04	0.16	106	0.69
Iron	µg/l	23.6 ± 1.46	20.9 ± 0.73	3.53	88.7	-1.29
Copper	µg/l	8.84 ± 0.148	8.9 ± 0.51	0.796	101	0.06
Manganese	µg/l	26.9 ± 0.565	25.8 ± 0.66	1.94	95.8	-0.78
Nickel	µg/l	3.58 ± 0.0927	3.6 ± 0.15	0.43	101	0.06
Selenium	µg/l	3.37 ± 0.105	- ± -	0.405	-	-
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	338 ± 14	30.8	98.9	-0.13

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

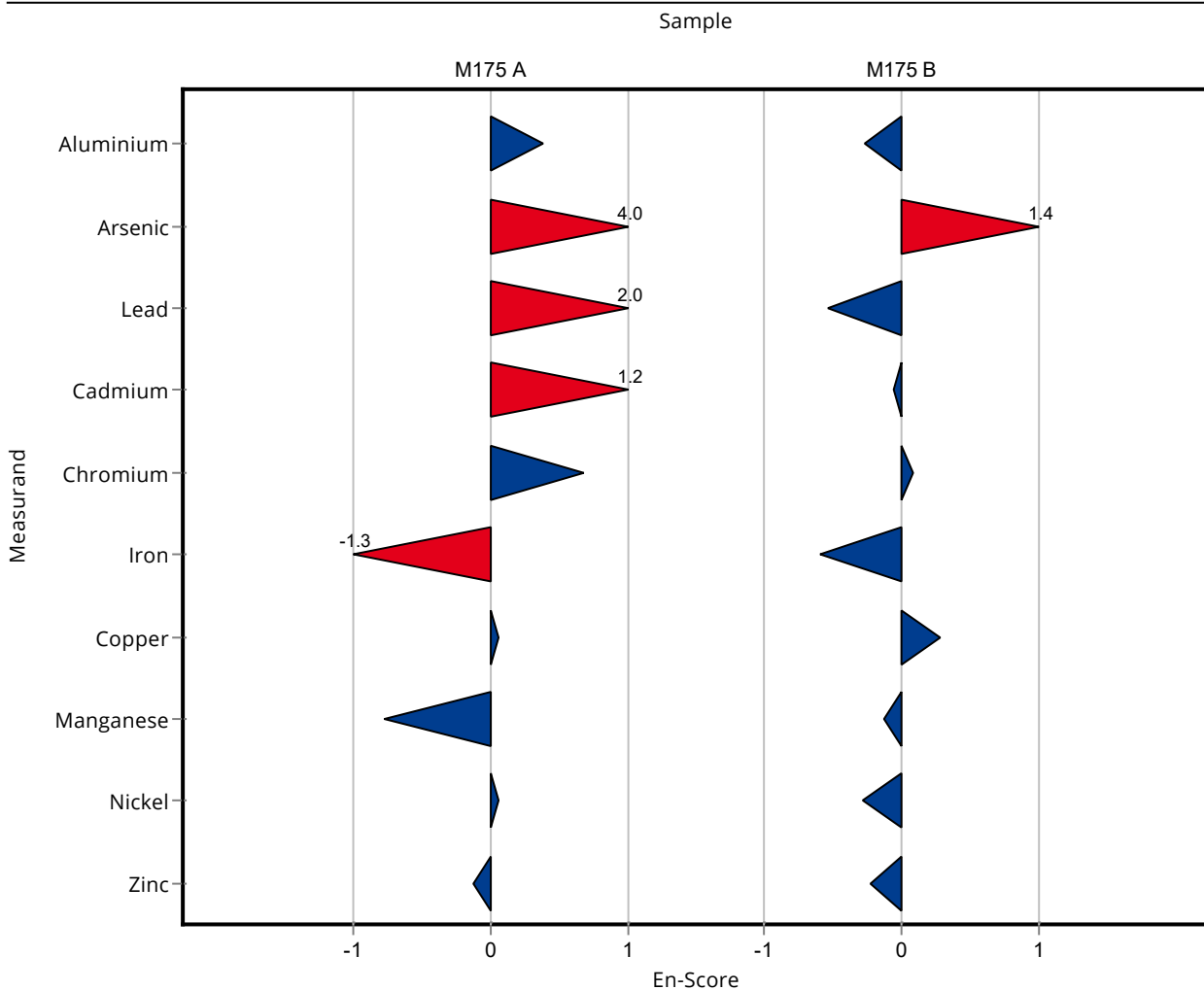
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	598 ± 33	61.6	97.1	-0.26
Arsenic	µg/l	10.2 ± 0.177	12.2 ± 0.68	1.33	119	1.45
Lead	µg/l	17.7 ± 0.414	17 ± 0.61	1.77	96.1	-0.54
Cadmium	µg/l	4.92 ± 0.0597	4.9 ± 0.19	0.492	99.6	-0.05
Chromium	µg/l	30.7 ± 0.674	30.9 ± 1.02	2.61	101	0.09

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	69.2 ± 2.4	7.94	95.9	-0.59
Copper	µg/l	41.7 ± 0.556	43.1 ± 2.5	3.75	103	0.28
Manganese	µg/l	59.9 ± 0.938	59.5 ± 1.5	4.31	99.3	-0.13
Nickel	µg/l	14 ± 0.308	13.7 ± 0.56	1.68	97.6	-0.29
Selenium	µg/l	13.1 ± 0.352	- ± -	1.57	-	-
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-
Zinc	µg/l	1550 ± 29.4	1523 ± 65	140	98	-0.23

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	66.56 ± 3.21	7.26	91.7	-0.83
Arsenic	µg/l	3.46 ± 0.0848	3.63 ± 0.12	0.449	105	0.39
Lead	µg/l	1.84 ± 0.0805	1.64 ± 0.06	0.184	89.3	-1.07
Cadmium	µg/l	1.53 ± 0.0318	1.38 ± 0.09	0.153	90.2	-0.98
Chromium	µg/l	1.23 ± 0.07	0.89 ± 0.04	0.16	72.5	-2.11
Iron	µg/l	23.6 ± 1.46	23.4 ± 1.15	3.53	99.3	-0.04
Copper	µg/l	8.84 ± 0.148	9.15 ± 0.52	0.796	103	0.39
Manganese	µg/l	26.9 ± 0.565	27.25 ± 1.44	1.94	101	0.17
Nickel	µg/l	3.58 ± 0.0927	3.62 ± 0.1	0.43	101	0.09
Selenium	µg/l	3.37 ± 0.105	3.89 ± 0.22	0.405	115	1.28
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	352.4 ± 17.48	30.8	103	0.35

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	587.07 ± 28.36	61.6	95.3	-0.47
Arsenic	µg/l	10.2 ± 0.177	10.67 ± 0.36	1.33	104	0.34
Lead	µg/l	17.7 ± 0.414	18.19 ± 0.64	1.77	103	0.28
Cadmium	µg/l	4.92 ± 0.0597	4.71 ± 0.32	0.492	95.7	-0.43
Chromium	µg/l	30.7 ± 0.674	32.04 ± 1.55	2.61	104	0.51
Iron	µg/l	72.2 ± 1.46	69.67 ± 3.42	7.94	96.5	-0.32
Copper	µg/l	41.7 ± 0.556	43.32 ± 2.46	3.75	104	0.44
Manganese	µg/l	59.9 ± 0.938	58.15 ± 3.06	4.31	97	-0.41
Nickel	µg/l	14 ± 0.308	14.53 ± 0.41	1.68	104	0.30
Selenium	µg/l	13.1 ± 0.352	13.73 ± 0.78	1.57	105	0.43
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-

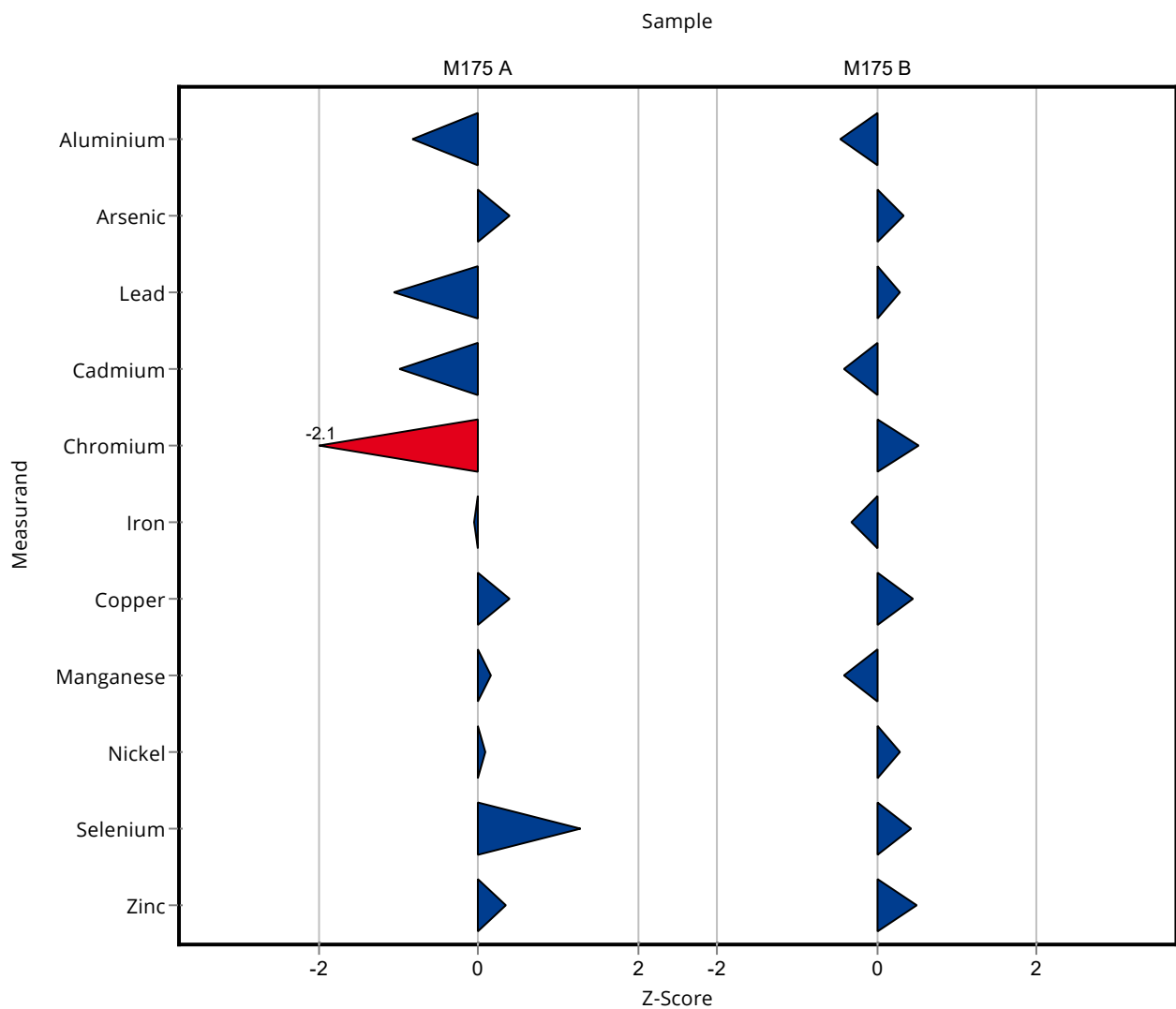
Summary of results Metals and trace elements M175

Labcode: LC0021

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1622.79 ± 80.49	140	104	0.49

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	66.56 ± 3.21	7.26	91.7	-0.89
Arsenic	µg/l	3.46 ± 0.0848	3.63 ± 0.12	0.449	105	0.69
Lead	µg/l	1.84 ± 0.0805	1.64 ± 0.06	0.184	89.3	-1.36
Cadmium	µg/l	1.53 ± 0.0318	1.38 ± 0.09	0.153	90.2	-0.82
Chromium	µg/l	1.23 ± 0.07	0.89 ± 0.04	0.16	72.5	-3.17
Iron	µg/l	23.6 ± 1.46	23.4 ± 1.15	3.53	99.3	-0.06
Copper	µg/l	8.84 ± 0.148	9.15 ± 0.52	0.796	103	0.29
Manganese	µg/l	26.9 ± 0.565	27.25 ± 1.44	1.94	101	0.11
Nickel	µg/l	3.58 ± 0.0927	3.62 ± 0.1	0.43	101	0.17
Selenium	µg/l	3.37 ± 0.105	3.89 ± 0.22	0.405	115	1.15
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	352.4 ± 17.48	30.8	103	0.30

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

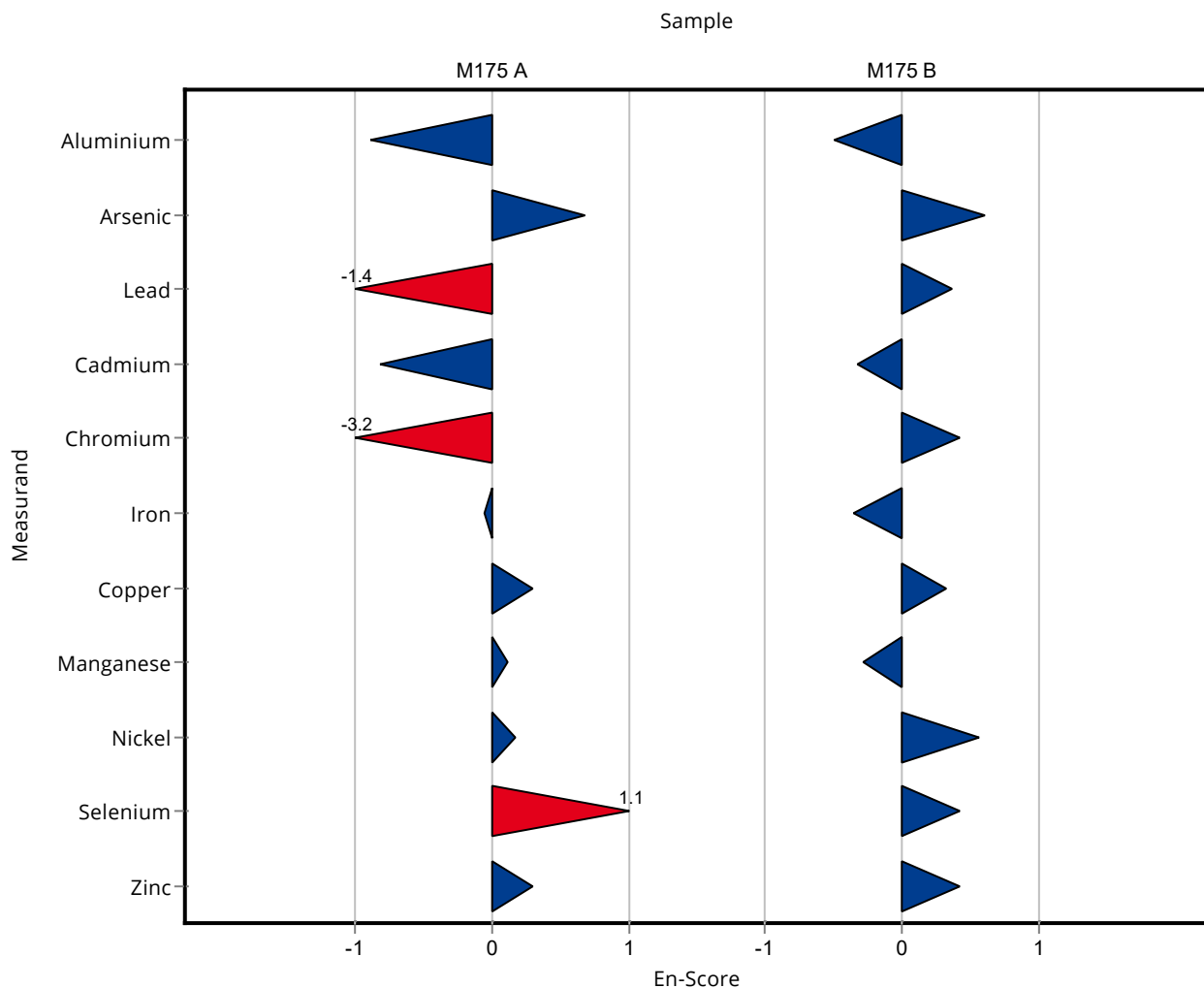
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	587.07 ± 28.36	61.6	95.3	-0.49
Arsenic	µg/l	10.2 ± 0.177	10.67 ± 0.36	1.33	104	0.62
Lead	µg/l	17.7 ± 0.414	18.19 ± 0.64	1.77	103	0.37
Cadmium	µg/l	4.92 ± 0.0597	4.71 ± 0.32	0.492	95.7	-0.33
Chromium	µg/l	30.7 ± 0.674	32.04 ± 1.55	2.61	104	0.42

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	69.67 ± 3.42	7.94	96.5	-0.36
Copper	µg/l	41.7 ± 0.556	43.32 ± 2.46	3.75	104	0.33
Manganese	µg/l	59.9 ± 0.938	58.15 ± 3.06	4.31	97	-0.29
Nickel	µg/l	14 ± 0.308	14.53 ± 0.41	1.68	104	0.57
Selenium	µg/l	13.1 ± 0.352	13.73 ± 0.78	1.57	105	0.42
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-
Zinc	µg/l	1550 ± 29.4	1622.79 ± 80.49	140	104	0.42

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	70.6 ± 10.6	7.26	97.3	-0.27
Arsenic	µg/l	3.46 ± 0.0848	3.2 ± 0.48	0.449	92.6	-0.57
Lead	µg/l	1.84 ± 0.0805	1.8 ± 0.27	0.184	98	-0.20
Cadmium	µg/l	1.53 ± 0.0318	1.6 ± 0.24	0.153	105	0.46
Chromium	µg/l	1.23 ± 0.07	1.2 ± 0.18	0.16	97.8	-0.17
Iron	µg/l	23.6 ± 1.46	22.4 ± 3.37	3.53	95.1	-0.33
Copper	µg/l	8.84 ± 0.148	8.9 ± 1.33	0.796	101	0.07
Manganese	µg/l	26.9 ± 0.565	27.3 ± 4.1	1.94	101	0.20
Nickel	µg/l	3.58 ± 0.0927	3.4 ± 0.52	0.43	94.9	-0.42
Selenium	µg/l	3.37 ± 0.105	3.3 ± 0.49	0.405	97.9	-0.18
Uranium	µg/l	2.05 ± 0.0519	1.9 ± 0.29	0.135	92.6	-1.13
Zinc	µg/l	342 ± 8.95	338 ± 50.6	30.8	98.9	-0.12

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.6 ± 0.08	0.0801	105	0.34

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	626 ± 93.8	61.6	102	0.17
Arsenic	µg/l	10.2 ± 0.177	9.6 ± 1.44	1.33	94	-0.46
Lead	µg/l	17.7 ± 0.414	17.6 ± 2.64	1.77	99.5	-0.05
Cadmium	µg/l	4.92 ± 0.0597	5 ± 0.75	0.492	102	0.16
Chromium	µg/l	30.7 ± 0.674	30.5 ± 4.58	2.61	99.3	-0.08
Iron	µg/l	72.2 ± 1.46	70.4 ± 10.6	7.94	97.5	-0.22
Copper	µg/l	41.7 ± 0.556	41.9 ± 6.29	3.75	101	0.06
Manganese	µg/l	59.9 ± 0.938	60.3 ± 9.04	4.31	101	0.09
Nickel	µg/l	14 ± 0.308	14.2 ± 2.12	1.68	101	0.10
Selenium	µg/l	13.1 ± 0.352	12.6 ± 1.89	1.57	96.5	-0.29
Uranium	µg/l	1.35 ± 0.0379	1.3 ± 0.19	0.0893	96.1	-0.59

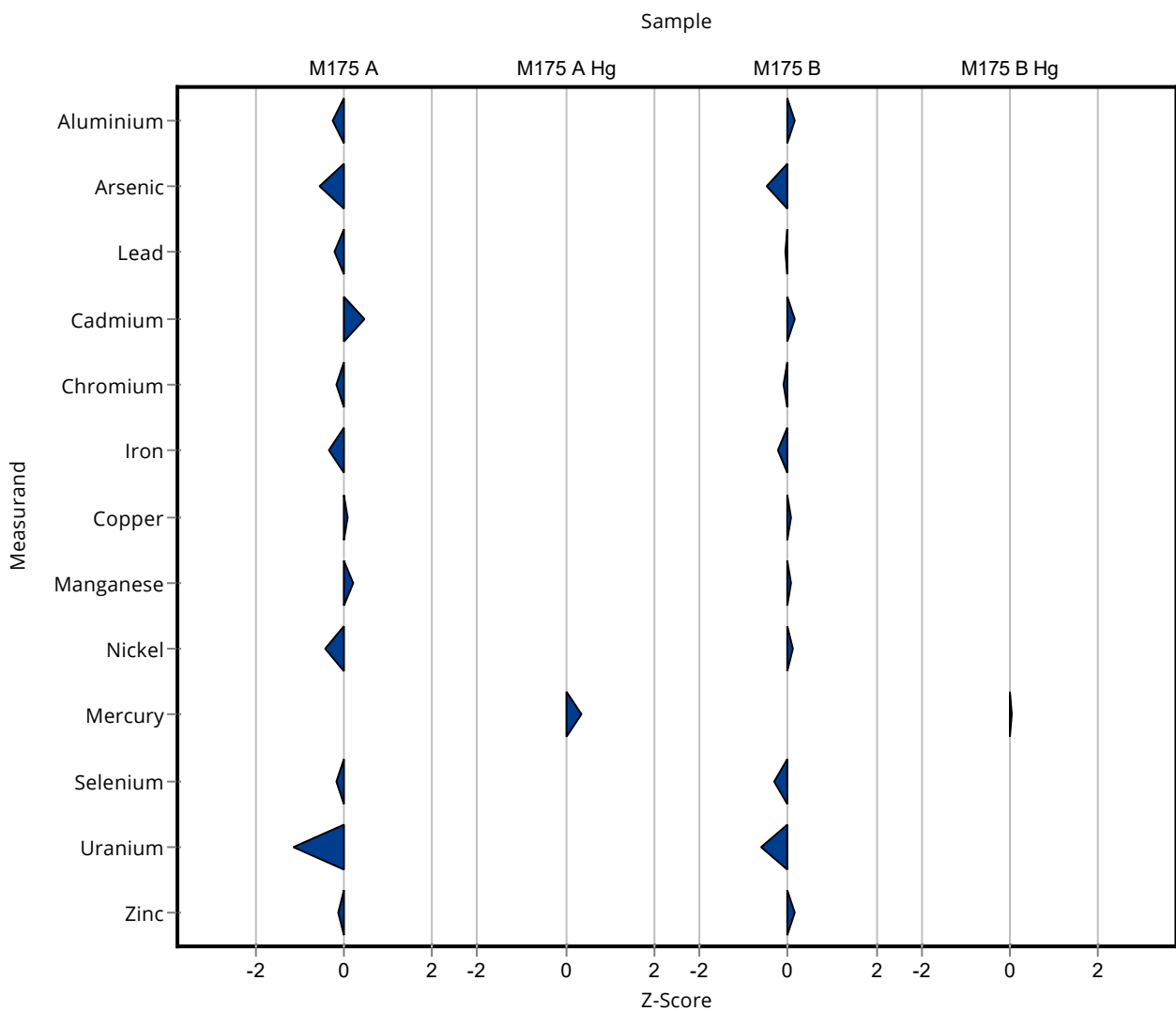
Summary of results Metals and trace elements M175

Labcode: LC0022

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1575 ± 236	140	101	0.15

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.4 ± 0.36	0.334	101	0.04



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	70.6 ± 10.6	7.26	97.3	-0.09
Arsenic	µg/l	3.46 ± 0.0848	3.2 ± 0.48	0.449	92.6	-0.27
Lead	µg/l	1.84 ± 0.0805	1.8 ± 0.27	0.184	98	-0.07
Cadmium	µg/l	1.53 ± 0.0318	1.6 ± 0.24	0.153	105	0.15
Chromium	µg/l	1.23 ± 0.07	1.2 ± 0.18	0.16	97.8	-0.07
Iron	µg/l	23.6 ± 1.46	22.4 ± 3.37	3.53	95.1	-0.17
Copper	µg/l	8.84 ± 0.148	8.9 ± 1.33	0.796	101	0.02
Manganese	µg/l	26.9 ± 0.565	27.3 ± 4.1	1.94	101	0.05
Nickel	µg/l	3.58 ± 0.0927	3.4 ± 0.52	0.43	94.9	-0.17
Selenium	µg/l	3.37 ± 0.105	3.3 ± 0.49	0.405	97.9	-0.07
Uranium	µg/l	2.05 ± 0.0519	1.9 ± 0.29	0.135	92.6	-0.26
Zinc	µg/l	342 ± 8.95	338 ± 50.6	30.8	98.9	-0.04

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.6 ± 0.08	0.0801	105	0.17

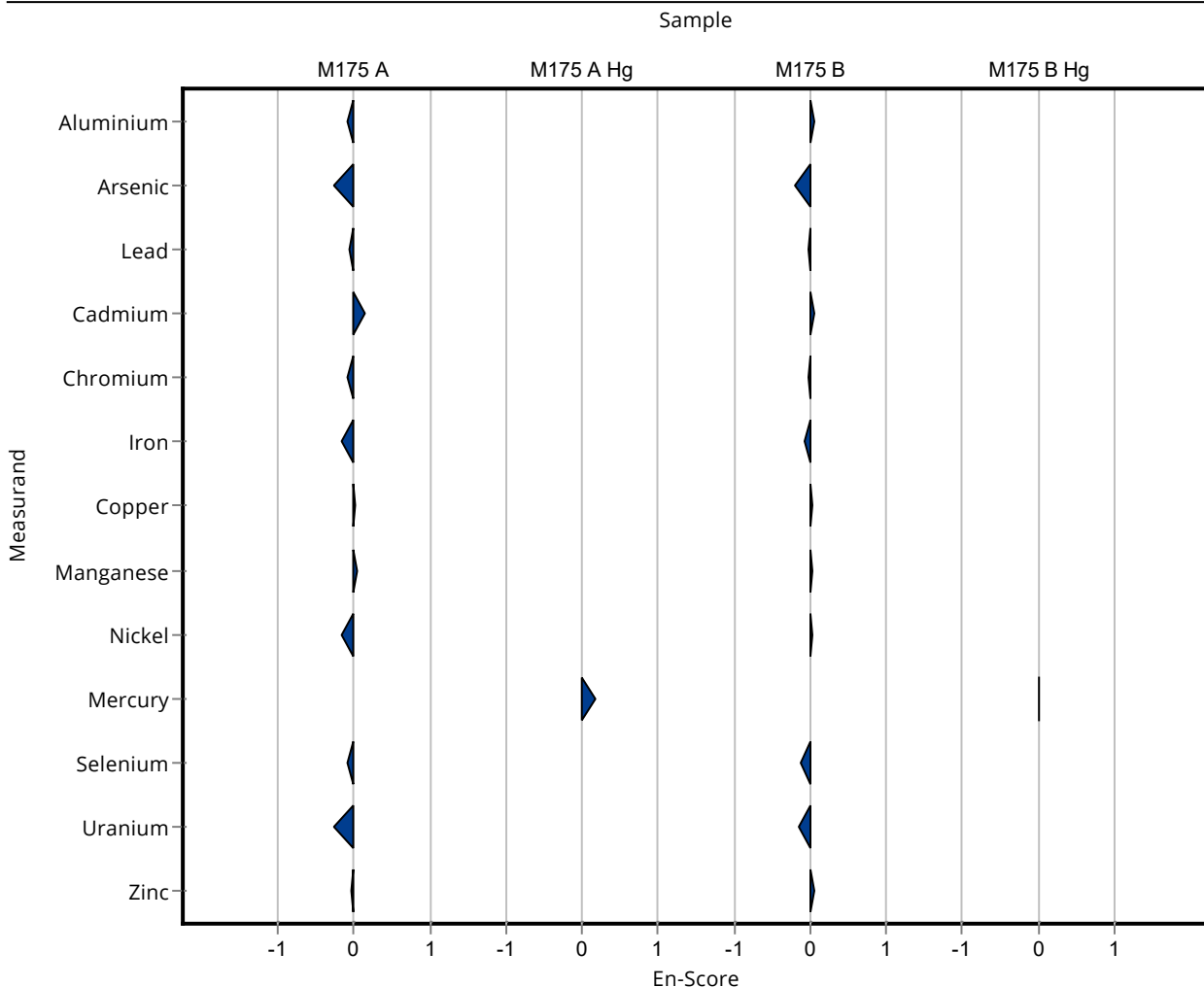
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	626 ± 93.8	61.6	102	0.05
Arsenic	µg/l	10.2 ± 0.177	9.6 ± 1.44	1.33	94	-0.21
Lead	µg/l	17.7 ± 0.414	17.6 ± 2.64	1.77	99.5	-0.02
Cadmium	µg/l	4.92 ± 0.0597	5 ± 0.75	0.492	102	0.05
Chromium	µg/l	30.7 ± 0.674	30.5 ± 4.58	2.61	99.3	-0.02

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	70.4 ± 10.6	7.94	97.5	-0.08
Copper	µg/l	41.7 ± 0.556	41.9 ± 6.29	3.75	101	0.02
Manganese	µg/l	59.9 ± 0.938	60.3 ± 9.04	4.31	101	0.02
Nickel	µg/l	14 ± 0.308	14.2 ± 2.12	1.68	101	0.04
Selenium	µg/l	13.1 ± 0.352	12.6 ± 1.89	1.57	96.5	-0.12
Uranium	µg/l	1.35 ± 0.0379	1.3 ± 0.19	0.0893	96.1	-0.14
Zinc	µg/l	1550 ± 29.4	1575 ± 236	140	101	0.04

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.4 ± 0.36	0.334	101	0.02



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	<100 (LOQ) ± -	7.26	-	-
Arsenic	µg/l	3.46 ± 0.0848	3.305 ± 0.3305	0.449	95.6	-0.33
Lead	µg/l	1.84 ± 0.0805	2.794 ± 0.2794	0.184	152	5.22
Cadmium	µg/l	1.53 ± 0.0318	1.581 ± 0.1581	0.153	103	0.33
Chromium	µg/l	1.23 ± 0.07	<5 (LOQ) ± -	0.16	-	-
Iron	µg/l	23.6 ± 1.46	16.82 ± 2.289202	3.53	71.4	-1.91
Copper	µg/l	8.84 ± 0.148	10.13 ± 1.506331	0.796	115	1.62
Manganese	µg/l	26.9 ± 0.565	24.28 ± 3.438048	1.94	90.2	-1.36
Nickel	µg/l	3.58 ± 0.0927	<5 (LOQ) ± -	0.43	-	-
Selenium	µg/l	3.37 ± 0.105	5.33 ± 1.066	0.405	158	4.84
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	334.95 ± 40.629435	30.8	98	-0.22

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	608.3 ± 109.494	61.6	98.8	-0.12
Arsenic	µg/l	10.2 ± 0.177	9.974 ± 0.9974	1.33	97.7	-0.18
Lead	µg/l	17.7 ± 0.414	19.824 ± 1.9824	1.77	112	1.20
Cadmium	µg/l	4.92 ± 0.0597	5.225 ± 0.5225	0.492	106	0.62
Chromium	µg/l	30.7 ± 0.674	29.67 ± 3.833364	2.61	96.6	-0.40
Iron	µg/l	72.2 ± 1.46	66.95 ± 9.111895	7.94	92.8	-0.66
Copper	µg/l	41.7 ± 0.556	41.65 ± 6.193355	3.75	99.9	-0.01
Manganese	µg/l	59.9 ± 0.938	56.5 ± 8.0004	4.31	94.3	-0.79
Nickel	µg/l	14 ± 0.308	13.85 ± 2.682745	1.68	98.7	-0.11
Selenium	µg/l	13.1 ± 0.352	14.65 ± 2.93	1.57	112	1.01
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-

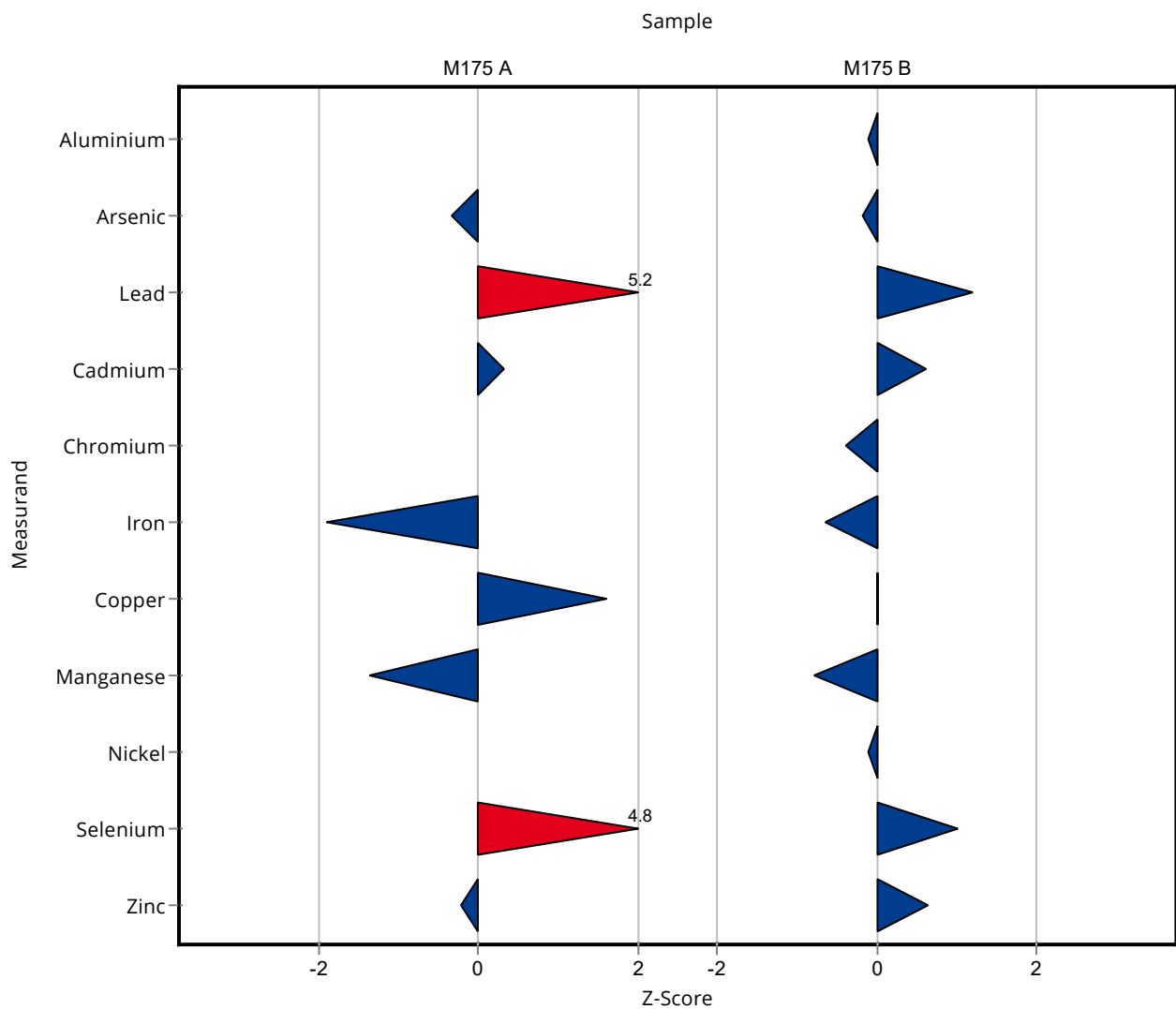
Summary of results Metals and trace elements M175

Labcode: LC0023

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1641.9 ± 199.16247	140	106	0.63

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	<100 (LOQ) ± -	7.26	-	-
Arsenic	µg/l	3.46 ± 0.0848	3.305 ± 0.3305	0.449	95.6	-0.23
Lead	µg/l	1.84 ± 0.0805	2.794 ± 0.2794	0.184	152	1.70
Cadmium	µg/l	1.53 ± 0.0318	1.581 ± 0.1581	0.153	103	0.16
Chromium	µg/l	1.23 ± 0.07	<5 (LOQ) ± -	0.16	-	-
Iron	µg/l	23.6 ± 1.46	16.82 ± 2.289202	3.53	71.4	-1.40
Copper	µg/l	8.84 ± 0.148	10.13 ± 1.506331	0.796	115	0.43
Manganese	µg/l	26.9 ± 0.565	24.28 ± 3.438048	1.94	90.2	-0.38
Nickel	µg/l	3.58 ± 0.0927	<5 (LOQ) ± -	0.43	-	-
Selenium	µg/l	3.37 ± 0.105	5.33 ± 1.066	0.405	158	0.92
Uranium	µg/l	2.05 ± 0.0519	- ± -	0.135	-	-
Zinc	µg/l	342 ± 8.95	334.95 ± 40.629435	30.8	98	-0.08

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	- ± -	0.0801	-	-

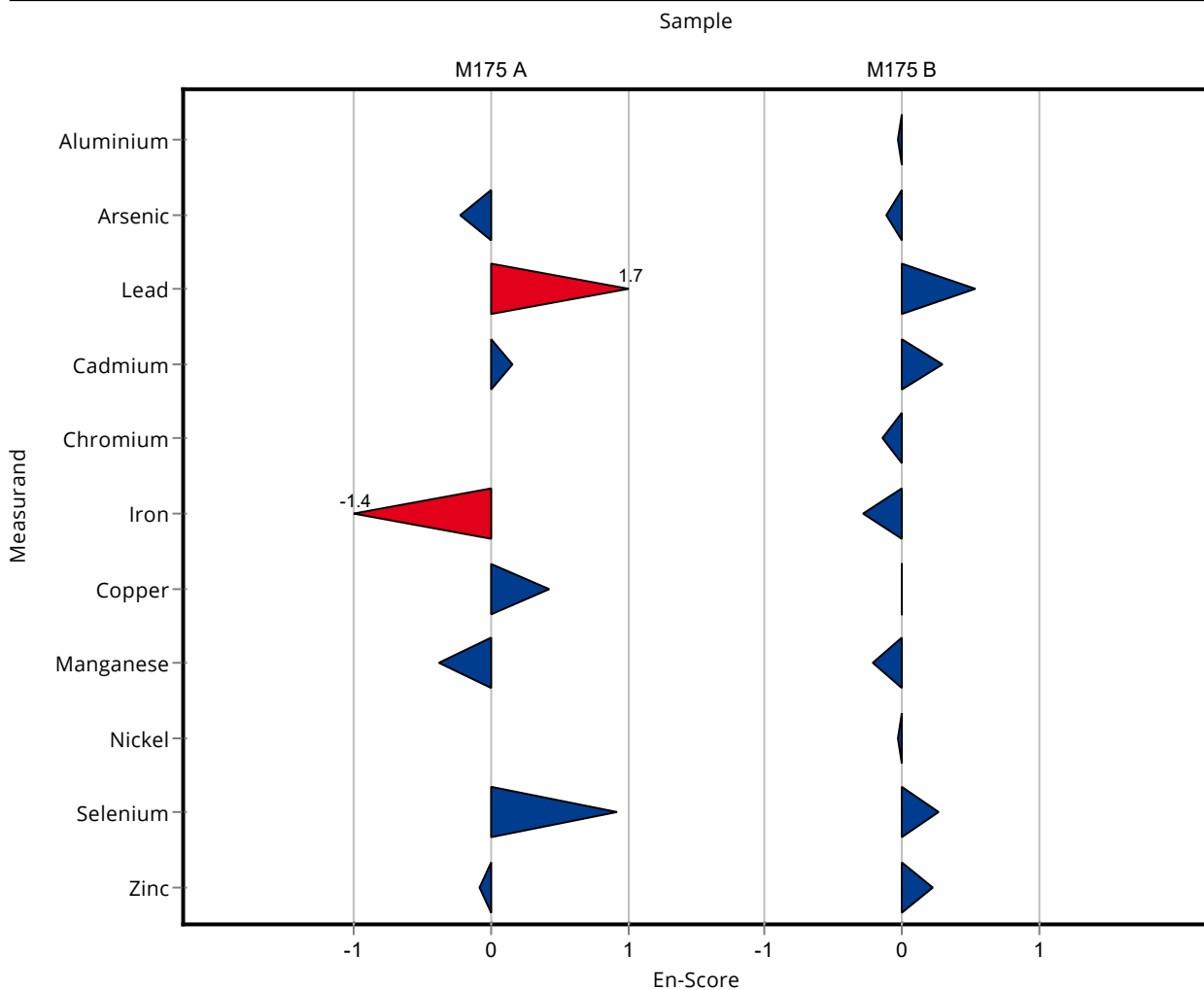
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	608.3 ± 109.494	61.6	98.8	-0.03
Arsenic	µg/l	10.2 ± 0.177	9.974 ± 0.9974	1.33	97.7	-0.12
Lead	µg/l	17.7 ± 0.414	19.824 ± 1.9824	1.77	112	0.53
Cadmium	µg/l	4.92 ± 0.0597	5.225 ± 0.5225	0.492	106	0.29
Chromium	µg/l	30.7 ± 0.674	29.67 ± 3.833364	2.61	96.6	-0.13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	66.95 ± 9.111895	7.94	92.8	-0.29
Copper	µg/l	41.7 ± 0.556	41.65 ± 6.193355	3.75	99.9	0.00
Manganese	µg/l	59.9 ± 0.938	56.5 ± 8.0004	4.31	94.3	-0.21
Nickel	µg/l	14 ± 0.308	13.85 ± 2.682745	1.68	98.7	-0.03
Selenium	µg/l	13.1 ± 0.352	14.65 ± 2.93	1.57	112	0.27
Uranium	µg/l	1.35 ± 0.0379	- ± -	0.0893	-	-
Zinc	µg/l	1550 ± 29.4	1641.9 ± 199.16247	140	106	0.22

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	- ± -	0.334	-	-



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	74.4 ± 1.9	7.26	102	0.25
Arsenic	µg/l	3.46 ± 0.0848	3.29 ± 0.07	0.449	95.2	-0.37
Lead	µg/l	1.84 ± 0.0805	1.85 ± 0.12	0.184	101	0.08
Cadmium	µg/l	1.53 ± 0.0318	1.56 ± 0.055	0.153	102	0.19
Chromium	µg/l	1.23 ± 0.07	1.53 ± 0.13	0.16	125	1.90
Iron	µg/l	23.6 ± 1.46	26.9 ± 0.14	3.53	114	0.95
Copper	µg/l	8.84 ± 0.148	9.4 ± 0.085	0.796	106	0.70
Manganese	µg/l	26.9 ± 0.565	29.9 ± 0.42	1.94	111	1.54
Nickel	µg/l	3.58 ± 0.0927	4.12 ± 0.012	0.43	115	1.25
Selenium	µg/l	3.37 ± 0.105	3.24 ± 0.09	0.405	96.1	-0.33
Uranium	µg/l	2.05 ± 0.0519	2.03 ± 0.031	0.135	98.9	-0.17
Zinc	µg/l	342 ± 8.95	356 ± 2.5	30.8	104	0.47

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.572 ± 0.012	0.0801	99.9	-0.01

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	630 ± 7.6	61.6	102	0.23
Arsenic	µg/l	10.2 ± 0.177	10.2 ± 0.1	1.33	99.9	-0.01
Lead	µg/l	17.7 ± 0.414	17.8 ± 0.25	1.77	101	0.06
Cadmium	µg/l	4.92 ± 0.0597	4.92 ± 0.15	0.492	100	0.00
Chromium	µg/l	30.7 ± 0.674	32.5 ± 0.29	2.61	106	0.69
Iron	µg/l	72.2 ± 1.46	73.5 ± 1.9	7.94	102	0.17
Copper	µg/l	41.7 ± 0.556	43 ± 0.4	3.75	103	0.35
Manganese	µg/l	59.9 ± 0.938	64 ± 0.55	4.31	107	0.95
Nickel	µg/l	14 ± 0.308	15.2 ± 0.21	1.68	108	0.69
Selenium	µg/l	13.1 ± 0.352	13 ± 0.17	1.57	99.5	-0.04
Uranium	µg/l	1.35 ± 0.0379	1.3 ± 0.032	0.0893	96.1	-0.59

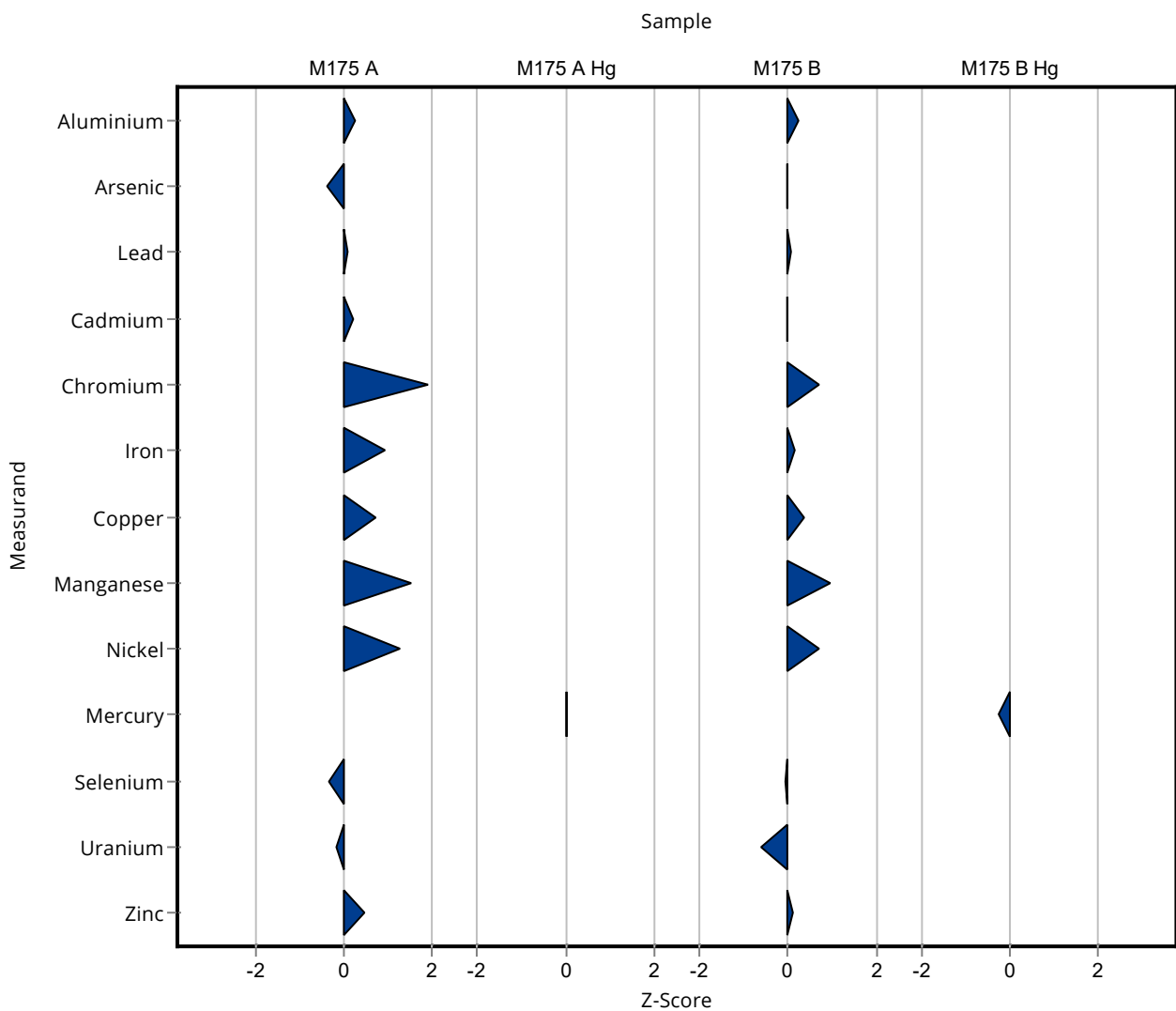
Summary of results Metals and trace elements M175

Labcode: LC0024

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1570 ± 13	140	101	0.11

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.3 ± 0.04	0.334	96.4	-0.26



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	74.4 ± 1.9	7.26	102	0.42
Arsenic	µg/l	3.46 ± 0.0848	3.29 ± 0.07	0.449	95.2	-1.01
Lead	µg/l	1.84 ± 0.0805	1.85 ± 0.12	0.184	101	0.06
Cadmium	µg/l	1.53 ± 0.0318	1.56 ± 0.055	0.153	102	0.26
Chromium	µg/l	1.23 ± 0.07	1.53 ± 0.13	0.16	125	1.13
Iron	µg/l	23.6 ± 1.46	26.9 ± 0.14	3.53	114	2.24
Copper	µg/l	8.84 ± 0.148	9.4 ± 0.085	0.796	106	2.47
Manganese	µg/l	26.9 ± 0.565	29.9 ± 0.42	1.94	111	2.94
Nickel	µg/l	3.58 ± 0.0927	4.12 ± 0.012	0.43	115	5.62
Selenium	µg/l	3.37 ± 0.105	3.24 ± 0.09	0.405	96.1	-0.63
Uranium	µg/l	2.05 ± 0.0519	2.03 ± 0.031	0.135	98.9	-0.28
Zinc	µg/l	342 ± 8.95	356 ± 2.5	30.8	104	1.40

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.572 ± 0.012	0.0801	99.9	-0.02

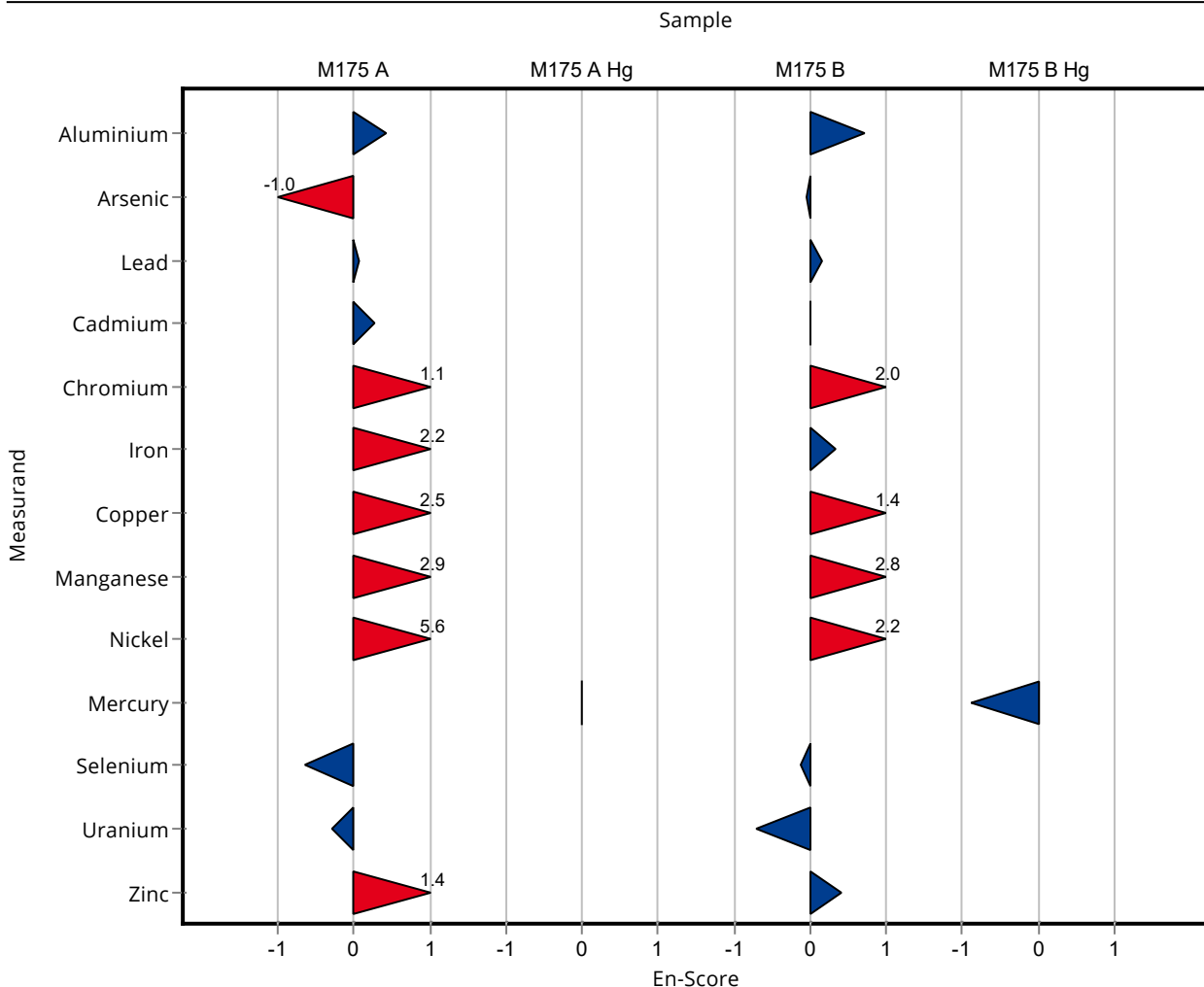
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	630 ± 7.6	61.6	102	0.71
Arsenic	µg/l	10.2 ± 0.177	10.2 ± 0.1	1.33	99.9	-0.05
Lead	µg/l	17.7 ± 0.414	17.8 ± 0.25	1.77	101	0.16
Cadmium	µg/l	4.92 ± 0.0597	4.92 ± 0.15	0.492	100	0.00
Chromium	µg/l	30.7 ± 0.674	32.5 ± 0.29	2.61	106	2.02

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	73.5 ± 1.9	7.94	102	0.32
Copper	µg/l	41.7 ± 0.556	43 ± 0.4	3.75	103	1.36
Manganese	µg/l	59.9 ± 0.938	64 ± 0.55	4.31	107	2.82
Nickel	µg/l	14 ± 0.308	15.2 ± 0.21	1.68	108	2.24
Selenium	µg/l	13.1 ± 0.352	13 ± 0.17	1.57	99.5	-0.12
Uranium	µg/l	1.35 ± 0.0379	1.3 ± 0.032	0.0893	96.1	-0.71
Zinc	µg/l	1550 ± 29.4	1570 ± 13	140	101	0.41

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.3 ± 0.04	0.334	96.4	-0.90



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	68.8 ± 1.04	7.26	94.8	-0.52
Arsenic	µg/l	3.46 ± 0.0848	3.74 ± 0.12	0.449	108	0.63
Lead	µg/l	1.84 ± 0.0805	1.89 ± 0.0531	0.184	103	0.30
Cadmium	µg/l	1.53 ± 0.0318	1.53 ± 0.0481	0.153	100	0.00
Chromium	µg/l	1.23 ± 0.07	<1 (LOQ) ± -	0.16	-	-
Iron	µg/l	23.6 ± 1.46	22.8 ± 0.625	3.53	96.8	-0.21
Copper	µg/l	8.84 ± 0.148	8.79 ± 0.0456	0.796	99.4	-0.07
Manganese	µg/l	26.9 ± 0.565	26.7 ± 0.352	1.94	99.2	-0.11
Nickel	µg/l	3.58 ± 0.0927	3.6 ± 0.0557	0.43	101	0.04
Selenium	µg/l	3.37 ± 0.105	3.16 ± 0.046	0.405	93.7	-0.52
Uranium	µg/l	2.05 ± 0.0519	2 ± 0.176	0.135	97.4	-0.39
Zinc	µg/l	342 ± 8.95	348 ± 2.28	30.8	102	0.21

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.554 ± 0.008	0.0801	96.8	-0.23

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	686 ± 7.06	61.6	111	1.14
Arsenic	µg/l	10.2 ± 0.177	10.3 ± 0.138	1.33	101	0.06
Lead	µg/l	17.7 ± 0.414	17.1 ± 0.324	1.77	96.6	-0.34
Cadmium	µg/l	4.92 ± 0.0597	4.86 ± 0.0509	0.492	98.8	-0.12
Chromium	µg/l	30.7 ± 0.674	32.6 ± 0.673	2.61	106	0.73
Iron	µg/l	72.2 ± 1.46	77.4 ± 0.596	7.94	107	0.66
Copper	µg/l	41.7 ± 0.556	41.4 ± 0.291	3.75	99.3	-0.07
Manganese	µg/l	59.9 ± 0.938	63 ± 0.329	4.31	105	0.71
Nickel	µg/l	14 ± 0.308	14 ± 0.378	1.68	99.8	-0.02
Selenium	µg/l	13.1 ± 0.352	11.4 ± 0.312	1.57	87.3	-1.06
Uranium	µg/l	1.35 ± 0.0379	1.29 ± 0.183	0.0893	95.4	-0.70

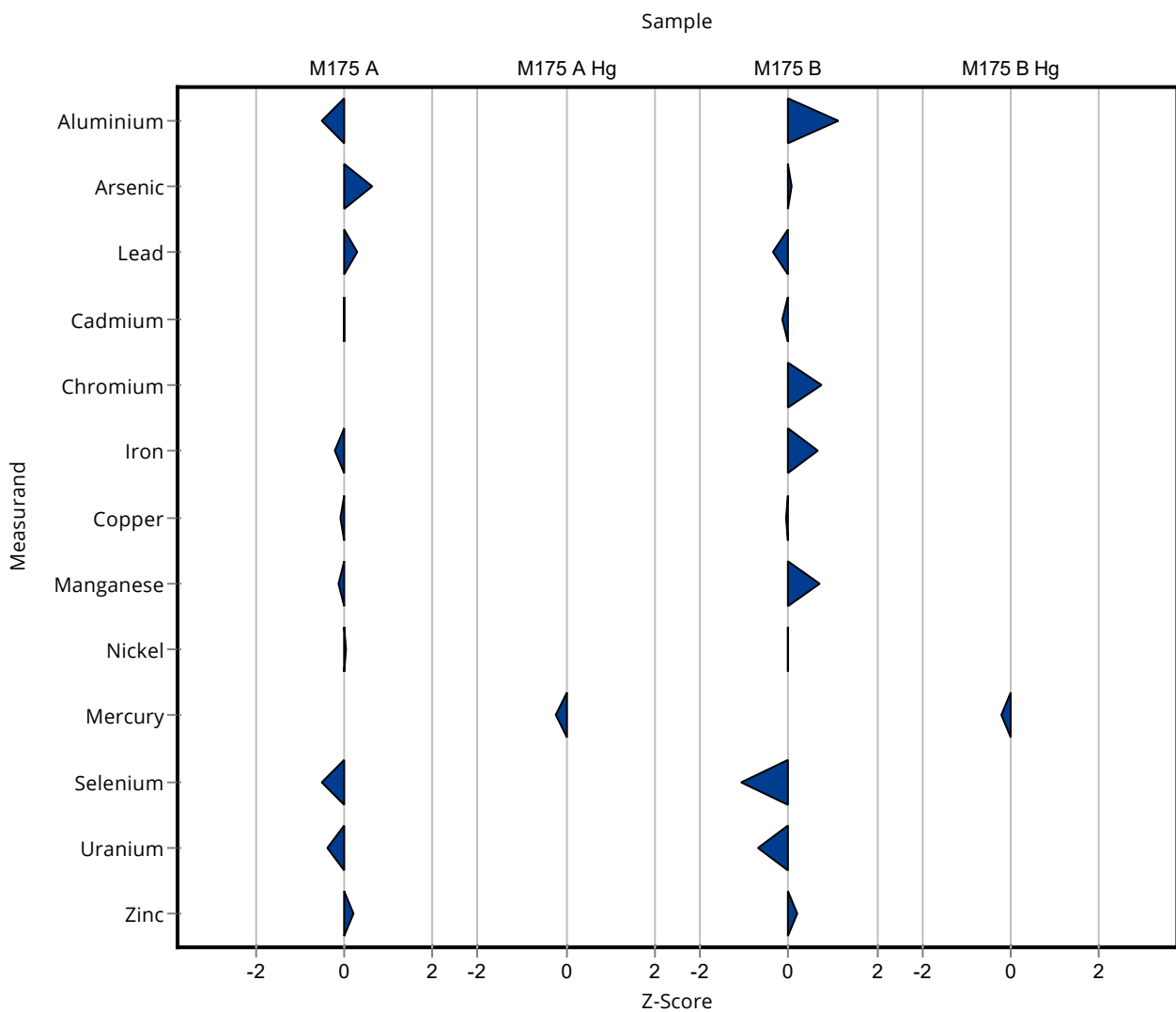
Summary of results Metals and trace elements M175

Labcode: LC0025

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1584 ± 9.46	140	102	0.21

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.32 ± 0.01	0.334	97.2	-0.20



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	68.8 ± 1.04	7.26	94.8	-1.27
Arsenic	µg/l	3.46 ± 0.0848	3.74 ± 0.12	0.449	108	1.12
Lead	µg/l	1.84 ± 0.0805	1.89 ± 0.0531	0.184	103	0.41
Cadmium	µg/l	1.53 ± 0.0318	1.53 ± 0.0481	0.153	100	0.00
Chromium	µg/l	1.23 ± 0.07	<1 (LOQ) ± -	0.16	-	-
Iron	µg/l	23.6 ± 1.46	22.8 ± 0.625	3.53	96.8	-0.39
Copper	µg/l	8.84 ± 0.148	8.79 ± 0.0456	0.796	99.4	-0.30
Manganese	µg/l	26.9 ± 0.565	26.7 ± 0.352	1.94	99.2	-0.25
Nickel	µg/l	3.58 ± 0.0927	3.6 ± 0.0557	0.43	101	0.13
Selenium	µg/l	3.37 ± 0.105	3.16 ± 0.046	0.405	93.7	-1.52
Uranium	µg/l	2.05 ± 0.0519	2 ± 0.176	0.135	97.4	-0.15
Zinc	µg/l	342 ± 8.95	348 ± 2.28	30.8	102	0.63

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.554 ± 0.008	0.0801	96.8	-0.77

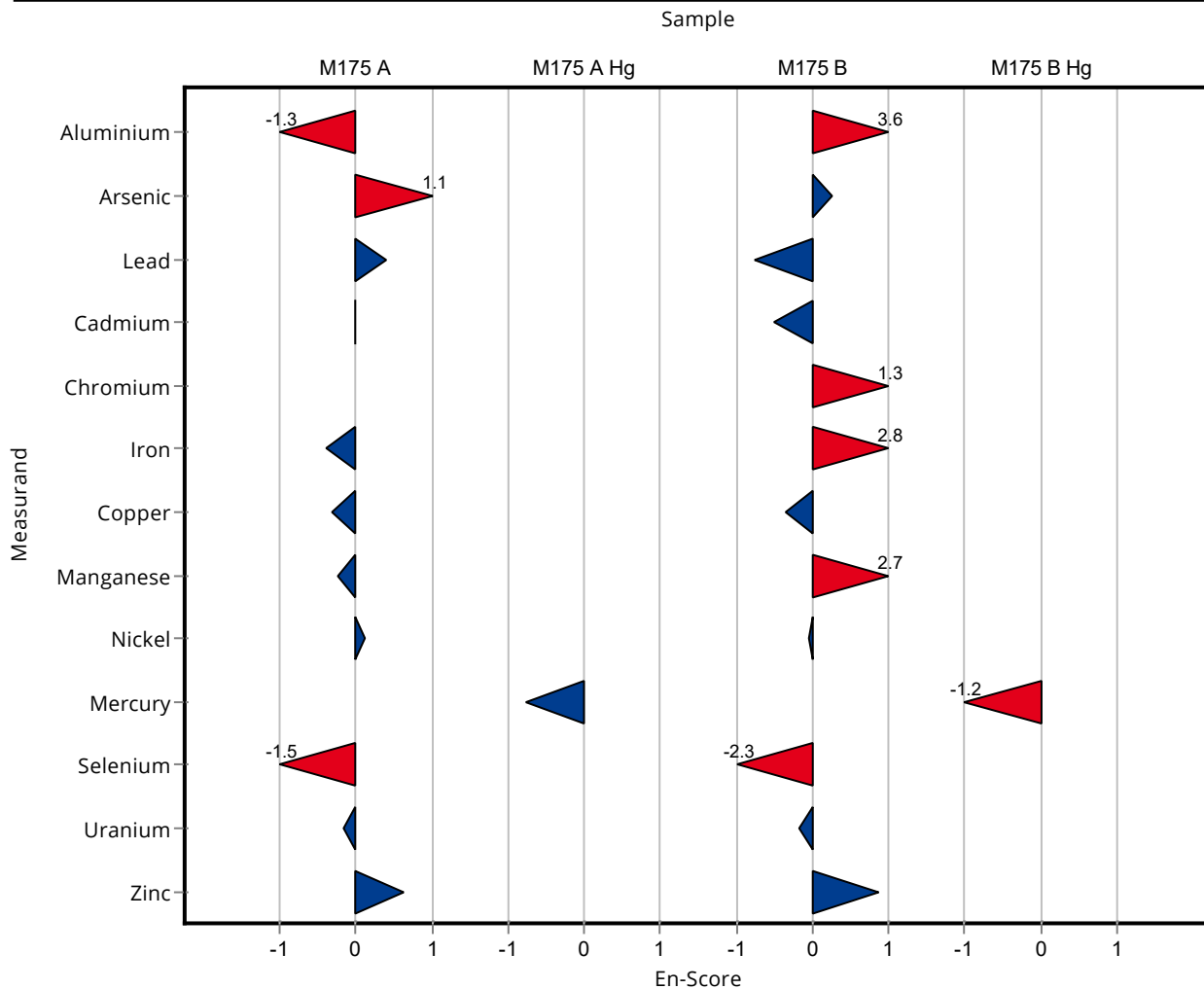
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	686 ± 7.06	61.6	111	3.63
Arsenic	µg/l	10.2 ± 0.177	10.3 ± 0.138	1.33	101	0.26
Lead	µg/l	17.7 ± 0.414	17.1 ± 0.324	1.77	96.6	-0.77
Cadmium	µg/l	4.92 ± 0.0597	4.86 ± 0.0509	0.492	98.8	-0.51
Chromium	µg/l	30.7 ± 0.674	32.6 ± 0.673	2.61	106	1.26

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	77.4 ± 0.596	7.94	107	2.77
Copper	µg/l	41.7 ± 0.556	41.4 ± 0.291	3.75	99.3	-0.34
Manganese	µg/l	59.9 ± 0.938	63 ± 0.329	4.31	105	2.69
Nickel	µg/l	14 ± 0.308	14 ± 0.378	1.68	99.8	-0.04
Selenium	µg/l	13.1 ± 0.352	11.4 ± 0.312	1.57	87.3	-2.32
Uranium	µg/l	1.35 ± 0.0379	1.29 ± 0.183	0.0893	95.4	-0.17
Zinc	µg/l	1550 ± 29.4	1584 ± 9.46	140	102	0.86

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.32 ± 0.01	0.334	97.2	-1.16



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	68.8 ± 3.44	7.26	94.8	-0.52
Arsenic	µg/l	3.46 ± 0.0848	3.32 ± 0.2	0.449	96.1	-0.30
Lead	µg/l	1.84 ± 0.0805	2.03 ± 0.183	0.184	111	1.06
Cadmium	µg/l	1.53 ± 0.0318	1.5 ± 0.06	0.153	98	-0.20
Chromium	µg/l	1.23 ± 0.07	1.07 ± 0.096	0.16	87.2	-0.98
Iron	µg/l	23.6 ± 1.46	30.6 ± 1.53	3.53	130	1.99
Copper	µg/l	8.84 ± 0.148	8.63 ± 0.518	0.796	97.6	-0.27
Manganese	µg/l	26.9 ± 0.565	26.6 ± 1.6	1.94	98.8	-0.17
Nickel	µg/l	3.58 ± 0.0927	3.31 ± 0.166	0.43	92.4	-0.63
Selenium	µg/l	3.37 ± 0.105	3.13 ± 0.344	0.405	92.8	-0.60
Uranium	µg/l	2.05 ± 0.0519	2.01 ± 0.101	0.135	97.9	-0.32
Zinc	µg/l	342 ± 8.95	324 ± 16.2	30.8	94.8	-0.57

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	0.51 ± 0.0612	0.0801	89.1	-0.78

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	585 ± 29.3	61.6	95	-0.50
Arsenic	µg/l	10.2 ± 0.177	10.1 ± 0.606	1.33	98.9	-0.09
Lead	µg/l	17.7 ± 0.414	16.8 ± 1.51	1.77	94.9	-0.51
Cadmium	µg/l	4.92 ± 0.0597	4.85 ± 0.194	0.492	98.6	-0.14
Chromium	µg/l	30.7 ± 0.674	29.5 ± 2.66	2.61	96.1	-0.46
Iron	µg/l	72.2 ± 1.46	73.5 ± 3.68	7.94	102	0.17
Copper	µg/l	41.7 ± 0.556	40.8 ± 2.45	3.75	97.9	-0.23
Manganese	µg/l	59.9 ± 0.938	59.8 ± 3.59	4.31	99.8	-0.03
Nickel	µg/l	14 ± 0.308	13.7 ± 0.685	1.68	97.6	-0.20
Selenium	µg/l	13.1 ± 0.352	12.8 ± 1.41	1.57	98	-0.17
Uranium	µg/l	1.35 ± 0.0379	1.34 ± 0.067	0.0893	99.1	-0.14

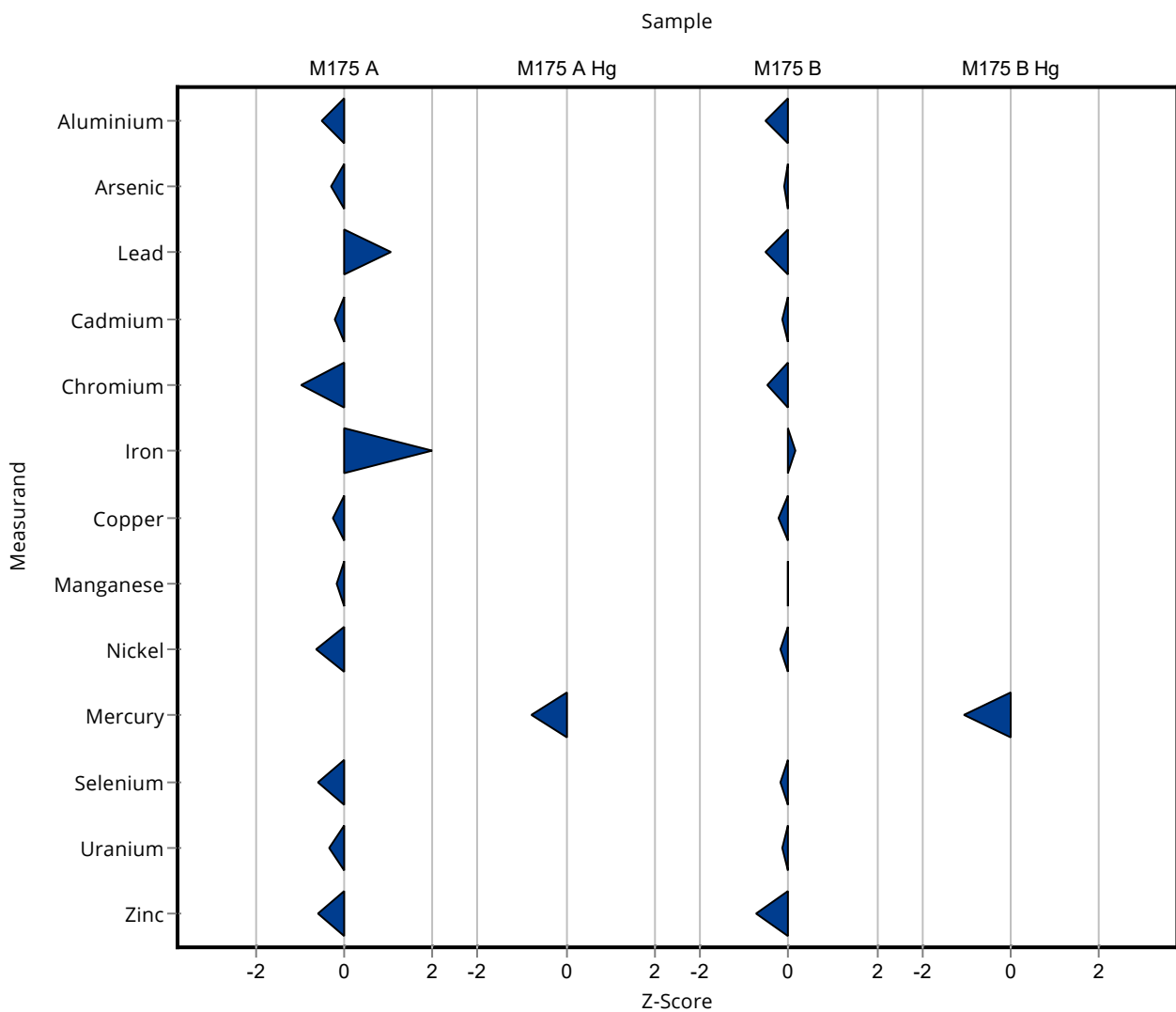
Summary of results Metals and trace elements M175

Labcode: LC0026

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1453 ± 72.7	140	93.5	-0.72

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.03 ± 0.244	0.334	85.1	-1.07



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Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	68.8 ± 3.44	7.26	94.8	-0.53
Arsenic	µg/l	3.46 ± 0.0848	3.32 ± 0.2	0.449	96.1	-0.33
Lead	µg/l	1.84 ± 0.0805	2.03 ± 0.183	0.184	111	0.52
Cadmium	µg/l	1.53 ± 0.0318	1.5 ± 0.06	0.153	98	-0.24
Chromium	µg/l	1.23 ± 0.07	1.07 ± 0.096	0.16	87.2	-0.77
Iron	µg/l	23.6 ± 1.46	30.6 ± 1.53	3.53	130	2.08
Copper	µg/l	8.84 ± 0.148	8.63 ± 0.518	0.796	97.6	-0.20
Manganese	µg/l	26.9 ± 0.565	26.6 ± 1.6	1.94	98.8	-0.10
Nickel	µg/l	3.58 ± 0.0927	3.31 ± 0.166	0.43	92.4	-0.79
Selenium	µg/l	3.37 ± 0.105	3.13 ± 0.344	0.405	92.8	-0.35
Uranium	µg/l	2.05 ± 0.0519	2.01 ± 0.101	0.135	97.9	-0.21
Zinc	µg/l	342 ± 8.95	324 ± 16.2	30.8	94.8	-0.53

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	0.51 ± 0.0612	0.0801	89.1	-0.50

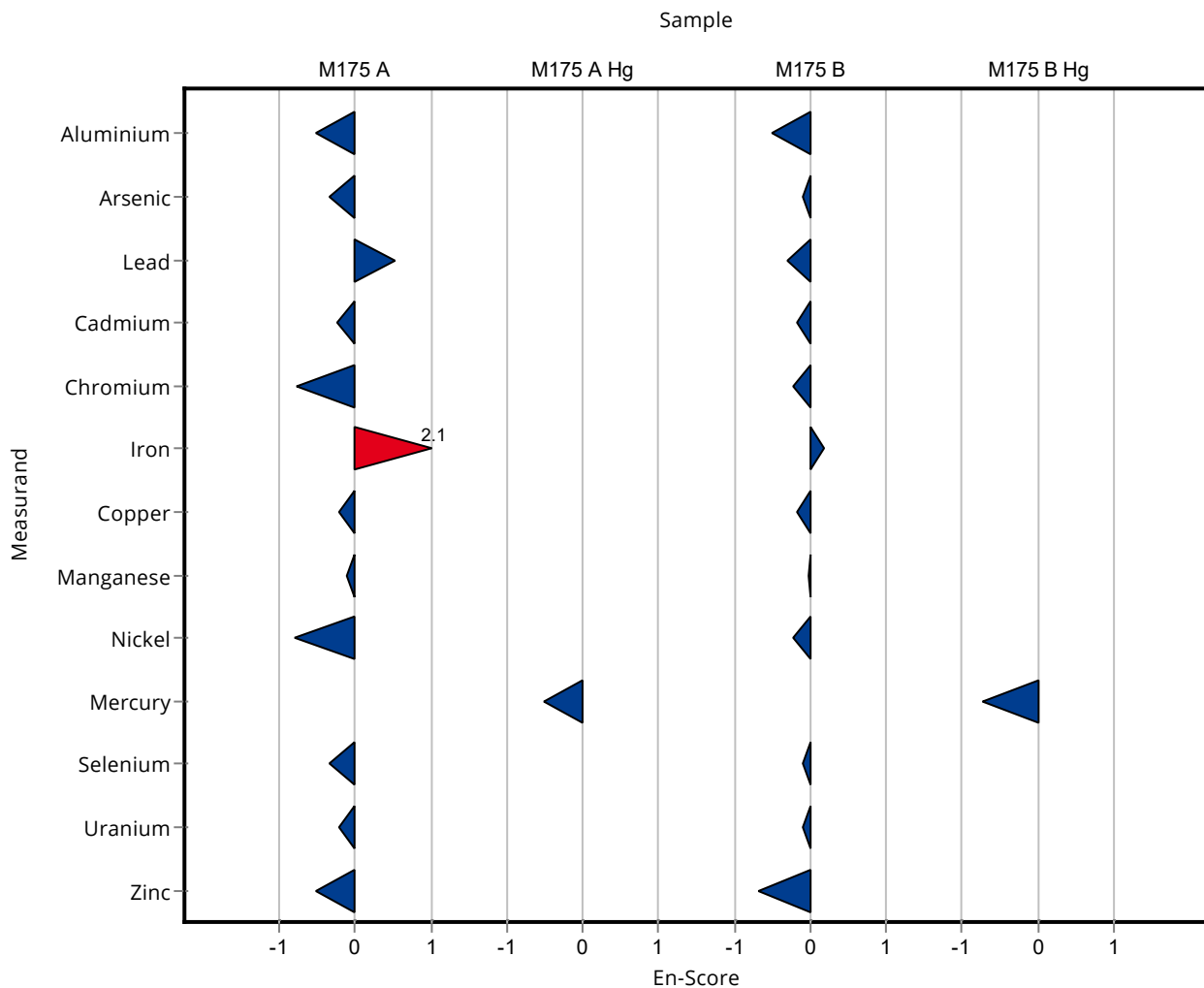
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	585 ± 29.3	61.6	95	-0.51
Arsenic	µg/l	10.2 ± 0.177	10.1 ± 0.606	1.33	98.9	-0.09
Lead	µg/l	17.7 ± 0.414	16.8 ± 1.51	1.77	94.9	-0.29
Cadmium	µg/l	4.92 ± 0.0597	4.85 ± 0.194	0.492	98.6	-0.18
Chromium	µg/l	30.7 ± 0.674	29.5 ± 2.66	2.61	96.1	-0.23

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	73.5 ± 3.68	7.94	102	0.18
Copper	µg/l	41.7 ± 0.556	40.8 ± 2.45	3.75	97.9	-0.18
Manganese	µg/l	59.9 ± 0.938	59.8 ± 3.59	4.31	99.8	-0.02
Nickel	µg/l	14 ± 0.308	13.7 ± 0.685	1.68	97.6	-0.24
Selenium	µg/l	13.1 ± 0.352	12.8 ± 1.41	1.57	98	-0.09
Uranium	µg/l	1.35 ± 0.0379	1.34 ± 0.067	0.0893	99.1	-0.09
Zinc	µg/l	1550 ± 29.4	1453 ± 72.7	140	93.5	-0.68

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.03 ± 0.244	0.334	85.1	-0.73



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	72.6 ± 2.14	59.9 ± 6	7.26	82.5	-1.75
Arsenic	µg/l	3.46 ± 0.0848	3.68 ± 0.37	0.449	106	0.50
Lead	µg/l	1.84 ± 0.0805	1.5 ± 0.15	0.184	81.7	-1.83
Cadmium	µg/l	1.53 ± 0.0318	1.52 ± 0.15	0.153	99.3	-0.07
Chromium	µg/l	1.23 ± 0.07	1.36 ± 0.14	0.16	111	0.83
Iron	µg/l	23.6 ± 1.46	27.4 ± 2.7	3.53	116	1.09
Copper	µg/l	8.84 ± 0.148	7.87 ± 0.79	0.796	89	-1.22
Manganese	µg/l	26.9 ± 0.565	25.3 ± 2.5	1.94	94	-0.84
Nickel	µg/l	3.58 ± 0.0927	3.55 ± 0.36	0.43	99.1	-0.07
Selenium	µg/l	3.37 ± 0.105	3.77 ± 0.38	0.405	112	0.98
Uranium	µg/l	2.05 ± 0.0519	1.85 ± 0.19	0.135	90.1	-1.50
Zinc	µg/l	342 ± 8.95	389 ± 39	30.8	114	1.54

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.572 ± 0.0178	1.02 ± 0.1	0.0801	178	5.58

Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	616 ± 13.2	531 ± 53	61.6	86.2	-1.38
Arsenic	µg/l	10.2 ± 0.177	11.1 ± 1.1	1.33	109	0.67
Lead	µg/l	17.7 ± 0.414	15.5 ± 1.6	1.77	87.6	-1.24
Cadmium	µg/l	4.92 ± 0.0597	4.98 ± 0.5	0.492	101	0.12
Chromium	µg/l	30.7 ± 0.674	28.6 ± 2.9	2.61	93.1	-0.81
Iron	µg/l	72.2 ± 1.46	72.3 ± 7.2	7.94	100	0.02
Copper	µg/l	41.7 ± 0.556	39.6 ± 4	3.75	95	-0.55
Manganese	µg/l	59.9 ± 0.938	57.9 ± 5.8	4.31	96.6	-0.47
Nickel	µg/l	14 ± 0.308	12.3 ± 1.2	1.68	87.7	-1.03
Selenium	µg/l	13.1 ± 0.352	14.7 ± 1.5	1.57	113	1.05
Uranium	µg/l	1.35 ± 0.0379	1.22 ± 0.12	0.0893	90.2	-1.48

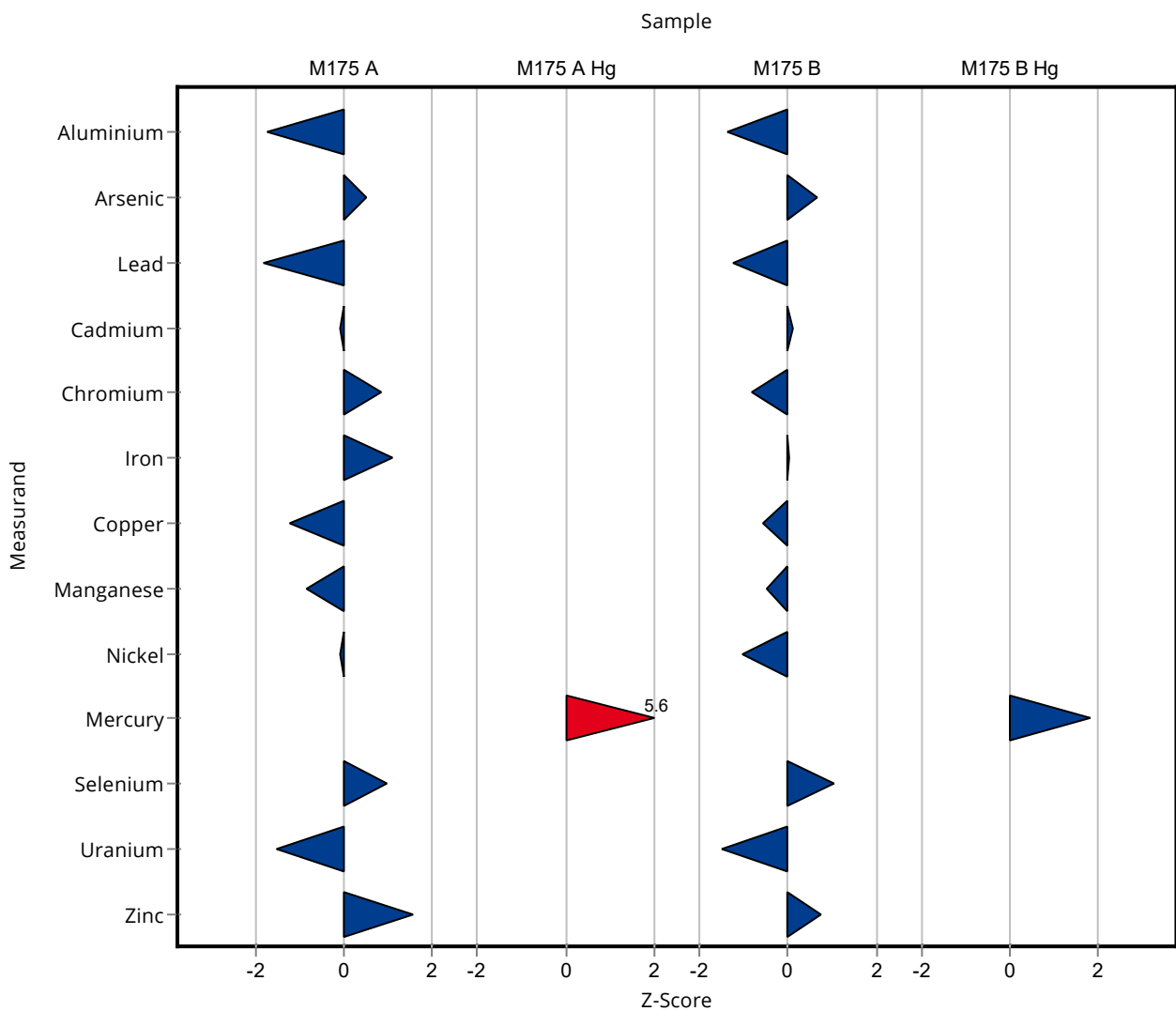
Summary of results Metals and trace elements M175

Labcode: LC0027

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	1550 ± 29.4	1660 ± 166	140	107	0.76

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	2.39 ± 0.0536	2.99 ± 0.3	0.334	125	1.81



Sample: M175A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	72.6 ± 2.14	59.9 ± 6	7.26	82.5	-1.04
Arsenic	µg/l	3.46 ± 0.0848	3.68 ± 0.37	0.449	106	0.30
Lead	µg/l	1.84 ± 0.0805	1.5 ± 0.15	0.184	81.7	-1.08
Cadmium	µg/l	1.53 ± 0.0318	1.52 ± 0.15	0.153	99.3	-0.03
Chromium	µg/l	1.23 ± 0.07	1.36 ± 0.14	0.16	111	0.46
Iron	µg/l	23.6 ± 1.46	27.4 ± 2.7	3.53	116	0.69
Copper	µg/l	8.84 ± 0.148	7.87 ± 0.79	0.796	89	-0.61
Manganese	µg/l	26.9 ± 0.565	25.3 ± 2.5	1.94	94	-0.32
Nickel	µg/l	3.58 ± 0.0927	3.55 ± 0.36	0.43	99.1	-0.04
Selenium	µg/l	3.37 ± 0.105	3.77 ± 0.38	0.405	112	0.52
Uranium	µg/l	2.05 ± 0.0519	1.85 ± 0.19	0.135	90.1	-0.53
Zinc	µg/l	342 ± 8.95	389 ± 39	30.8	114	0.60

Sample: M175AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.572 ± 0.0178	1.02 ± 0.1	0.0801	178	2.23

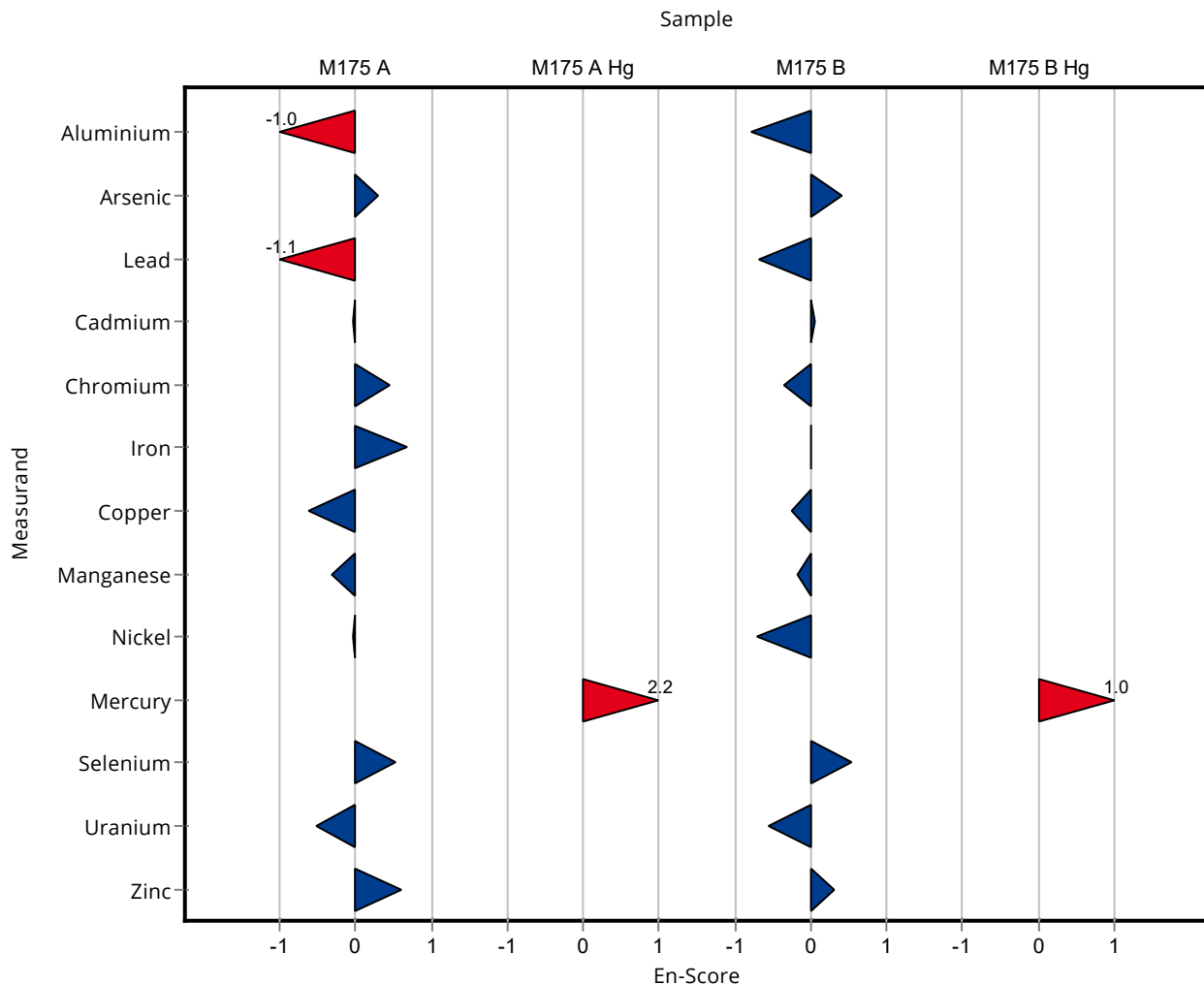
Sample: M175B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	616 ± 13.2	531 ± 53	61.6	86.2	-0.79
Arsenic	µg/l	10.2 ± 0.177	11.1 ± 1.1	1.33	109	0.40
Lead	µg/l	17.7 ± 0.414	15.5 ± 1.6	1.77	87.6	-0.68
Cadmium	µg/l	4.92 ± 0.0597	4.98 ± 0.5	0.492	101	0.06
Chromium	µg/l	30.7 ± 0.674	28.6 ± 2.9	2.61	93.1	-0.36

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	72.2 ± 1.46	72.3 ± 7.2	7.94	100	0.01
Copper	µg/l	41.7 ± 0.556	39.6 ± 4	3.75	95	-0.26
Manganese	µg/l	59.9 ± 0.938	57.9 ± 5.8	4.31	96.6	-0.17
Nickel	µg/l	14 ± 0.308	12.3 ± 1.2	1.68	87.7	-0.72
Selenium	µg/l	13.1 ± 0.352	14.7 ± 1.5	1.57	113	0.54
Uranium	µg/l	1.35 ± 0.0379	1.22 ± 0.12	0.0893	90.2	-0.55
Zinc	µg/l	1550 ± 29.4	1660 ± 166	140	107	0.32

Sample: M175BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	2.39 ± 0.0536	2.99 ± 0.3	0.334	125	1.00



E9. Methodenübersicht / Overview of methods

LabCode	Sample	Aluminium	Arsenic	Cadmium	Chromium	Copper
LC0001	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0002	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0003	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-OES; EN ISO 11885
LC0004	M175A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0005	M175A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0006	M175A	Photometry; ISO 10566				
LC0007	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0008	M175A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0009	M175A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0010	M175A	GF-AAS; EN ISO 15586	HG-AAS; ISO 17378-2 (HG: hydride generation AAS)	GF-AAS; EN ISO 15586		GF-AAS; EN ISO 15586
LC0011	M175A	ICP-OES; EN ISO 11885				
LC0012	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0013	M175A	GF-AAS; EN ISO 12020	GF-AAS; DIN 38405-35	GF-AAS; EN ISO 5961	GF-AAS; EN 1233	GF-AAS; DIN 38406-7
LC0014	M175A		ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0015	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0016	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0017	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0018	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0019	M175A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0020	M175A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885
LC0021	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0022	M175A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0023	M175A	ICP-OES; EN ISO 11885	GF-AAS; EN ISO 15586	GF-AAS; EN ISO 5961	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885
LC0024	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0025	M175A	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294
LC0026	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0027	M175A	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294

LabCode	Sample	Iron	Manganese	Nickel	Lead	Selenium
LC0001	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0002	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0003	M175A	ICP-OES; EN ISO 11885		ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0004	M175A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0005	M175A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0006	M175A	Photometry; DIN 38406-1	Photometry; DIN 38406-2			
LC0007	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0008	M175A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	
LC0009	M175A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0010	M175A	GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586	
LC0011	M175A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885			
LC0012	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0013	M175A	F-AAS; DIN 38406-32	F-AAS; DIN 38406-33	GF-AAS; DIN 38406-11	GF-AAS; DIN 38406-6	
LC0014	M175A			ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0015	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0016	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0017	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0018	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0019	M175A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0020	M175A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	
LC0021	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0022	M175A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0023	M175A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	GF-AAS; DIN 38406-6	ICP-OES; EN ISO 11885
LC0024	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0025	M175A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294
LC0026	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0027	M175A	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294

LabCode	Sample	Uranium	Zinc	Mercury (M175AHG)
LC0001	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0002	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	CV-AFS; EPA 1631-E
LC0003	M175A		ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294-2
LC0004	M175A	ICP-MS;	ICP-MS;	ICP-MS;
LC0005	M175A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	
LC0006	M175A			
LC0007	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0008	M175A	ICP-MS;	ICP-MS;	
LC0009	M175A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	
LC0010	M175A			
LC0011	M175A			
LC0012	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0013	M175A		F-AAS; DIN 38406-8	CV-AAS; EN 1483 (Flow injection-AAS)
LC0014	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	
LC0015	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0016	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0017	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0018	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	
LC0019	M175A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	CV-AAS; EN ISO 12846
LC0020	M175A		ICP-OES; EN ISO 11885	
LC0021	M175A		ICP-MS; EN ISO 17294-2	
LC0022	M175A	ICP-MS;	ICP-MS;	ICP-MS;
LC0023	M175A		ICP-OES; EN ISO 11885	
LC0024	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0025	M175A	ICP-MS; EN ISO 17294	ICP-OES; EN ISO 11885	CV-AAS; EN ISO 12846
LC0026	M175A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0027	M175A	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	Hg Analyzer;

LabCode	Sample	Aluminium	Arsenic	Cadmium	Chromium	Copper
LC0001	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0002	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0003	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-OES; EN ISO 11885
LC0004	M175B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0005	M175B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0006	M175B	Photometry; ISO 10566				
LC0007	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0008	M175B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0009	M175B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0010	M175B	GF-AAS; EN ISO 15586	HG-AAS; ISO 17378-2 (HG: hydride generation AAS)	GF-AAS; EN ISO 15586		GF-AAS; EN ISO 15586
LC0011	M175B	ICP-OES; EN ISO 11885				
LC0012	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0013	M175B	GF-AAS; EN ISO 12020	GF-AAS; DIN 38405-35	GF-AAS; EN ISO 5961	GF-AAS; EN 1233	GF-AAS; DIN 38406-7
LC0014	M175B		ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0015	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0016	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0017	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0018	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0019	M175B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0020	M175B	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885
LC0021	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0022	M175B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0023	M175B	ICP-OES; EN ISO 11885	GF-AAS; EN ISO 15586	GF-AAS; EN ISO 5961	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885
LC0024	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0025	M175B	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294
LC0026	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0027	M175B	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294

LabCode	Sample	Iron	Manganese	Nickel	Lead	Selenium
LC0001	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0002	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0003	M175B	ICP-OES; EN ISO 11885		ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0004	M175B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0005	M175B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0006	M175B	Photometry; DIN 38406-1	Photometry; DIN 38406-2			
LC0007	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0008	M175B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	
LC0009	M175B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0010	M175B	GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586	
LC0011	M175B	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885			
LC0012	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0013	M175B	F-AAS; DIN 38406-32	F-AAS; DIN 38406-33	GF-AAS; DIN 38406-11	GF-AAS; DIN 38406-6	
LC0014	M175B			ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0015	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0016	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0017	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0018	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0019	M175B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0020	M175B	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	
LC0021	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0022	M175B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0023	M175B	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	GF-AAS; DIN 38406-6	ICP-OES; EN ISO 11885
LC0024	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0025	M175B	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294
LC0026	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0027	M175B	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294

LabCode	Sample	Uranium	Zinc	Mercury (M175BHG)
LC0001	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0002	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	CV-AFS; EPA 1631-E
LC0003	M175B		ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294-2
LC0004	M175B	ICP-MS;	ICP-MS;	ICP-MS;
LC0005	M175B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	
LC0006	M175B			
LC0007	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0008	M175B	ICP-MS;	ICP-MS;	
LC0009	M175B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	
LC0010	M175B			
LC0011	M175B			
LC0012	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0013	M175B		F-AAS; DIN 38406-8	CV-AAS; EN 1483 (Flow injection-AAS)
LC0014	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	
LC0015	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0016	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0017	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0018	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	
LC0019	M175B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	CV-AAS; EN ISO 12846
LC0020	M175B		ICP-OES; EN ISO 11885	
LC0021	M175B		ICP-MS; EN ISO 17294-2	
LC0022	M175B	ICP-MS;	ICP-MS;	ICP-MS;
LC0023	M175B		ICP-OES; EN ISO 11885	
LC0024	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0025	M175B	ICP-MS; EN ISO 17294	ICP-OES; EN ISO 11885	CV-AAS; EN ISO 12846
LC0026	M175B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0027	M175B	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	Hg Analyzer;