

# Proficiency Testing Scheme für die Wasseranalytik - Realproben B14 BTEX und MTBE

## Proficiency Testing Scheme for Water Analysis - natural water samples B14 BTEX and MTBE

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## D1. Beschreibung des Ringversuchs

### D1.1. Ausgestaltung und Durchführung

- Anzahl der Anmeldungen: 20
- Anzahl der übermittelten Datensätze: 19
- Probenversand: 22.04.2025
- Einsendeschluss der Daten: 20.05.2025

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 Probenahmen von Grundwasser und Oberflächenwasser erfolgten am 15.04.2025.

Das Probenmaterial umfasste:

- 1 Probe Grundwasser (B14 A)
- 1 Probe Oberflächenwasser (B14 B)

Alle Proben wurden anschließend bis zur weiteren Verarbeitung gekühlt gelagert (4 +/- 3°C). Die o.a. Proben wurden bei 40 µm filtriert und im Rührkessel zusätzlich mit einzelnen Substanzen dotiert.

Das Abfüllen der Proben erfolgte unter ständigem Rühren (Rührkessel). Die Stabilisierung erfolgte durch Kühlung.

Die homogenen Prüfgegenstände wurden am 22.04.2025 verschickt.

Jedes teilnehmende Labor erhielt:

- 2 Proben zu je ca. 600 ml, abgefüllt in je 1 x 600 ml Aluminiumflaschen

### **D1.3. Anweisungen für die Teilnehmenden**

Aus Stabilitätsgründen wurde empfohlen bis spätestens 30.04.2025 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.

Die Bestimmung der Parameter wurde an ein externes Labor (akkreditiert nach EN ISO/IEC 17025 für die o.a. Parameter) im Unterauftrag vergeben (verdeckte Vergabe, Proben anonymisiert) und erfolgte zeitnah zum Probenversand.

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 20.05.2025 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 eingestuft 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 regulatorische Vorgaben) erfolgt die Festlegung nach Expertenbefund und die Vorgangsweise wird unter Punkt D4 des Berichts beschrieben.

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

Für die realen Wasserproben erfolgen zusätzliche Bewertungen unter Einbeziehung der erweiterten Messunsicherheiten der Teilnehmenden und der erweiterten Messunsicherheit des zugewiesenen Wertes, gemäß E<sub>n</sub>-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<sub>n</sub>-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<sub>n</sub>-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<sub>n</sub>-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<sub>n</sub>-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 von 2013 bis 2024 in Realproben wurden Kriterien (RSDpool) zur Ergebnisbewertung berechnet. Diese wurden im Zuge der Auswertung den relativen Vergleichsstandardabweichungen (vR) des aktuellen Ringversuchs gegenübergestellt.

Parameter MTBE bei Probe B14 A: Für diesen Parameter wurde die aktuelle relative Vergleichsstandardabweichung (vR) von 16 % für die Bewertung gewählt.

Bei Probe B14 A wurde für den Parameter o-Xylol ein zusätzlicher Ausreißer nach Hampel (H95) vor der Definition des zugewiesenen Wertes eliminiert (Ausreißer o-Xylol: LC0008 H95, LC0018 H99).

Parameter Benzol, Toluol, Ethylbenzol und Summe m- und p-Xylol bei Probe B14 A und Parameter Benzol, Toluol, Ethylbenzol, o-Xylol, Summe m- und p-Xylol und MTBE bei Probe B14 B: Bei diesen Parametern erfolgte die Berechnung der Scores nach D2.

## 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 ± U (k=2)	Mittelwert der Kontrollmessungen des Veranstalters ± 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.
± 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 <sub>n</sub> -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 <sub>n</sub> -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 Bestimmungsgrenze 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)

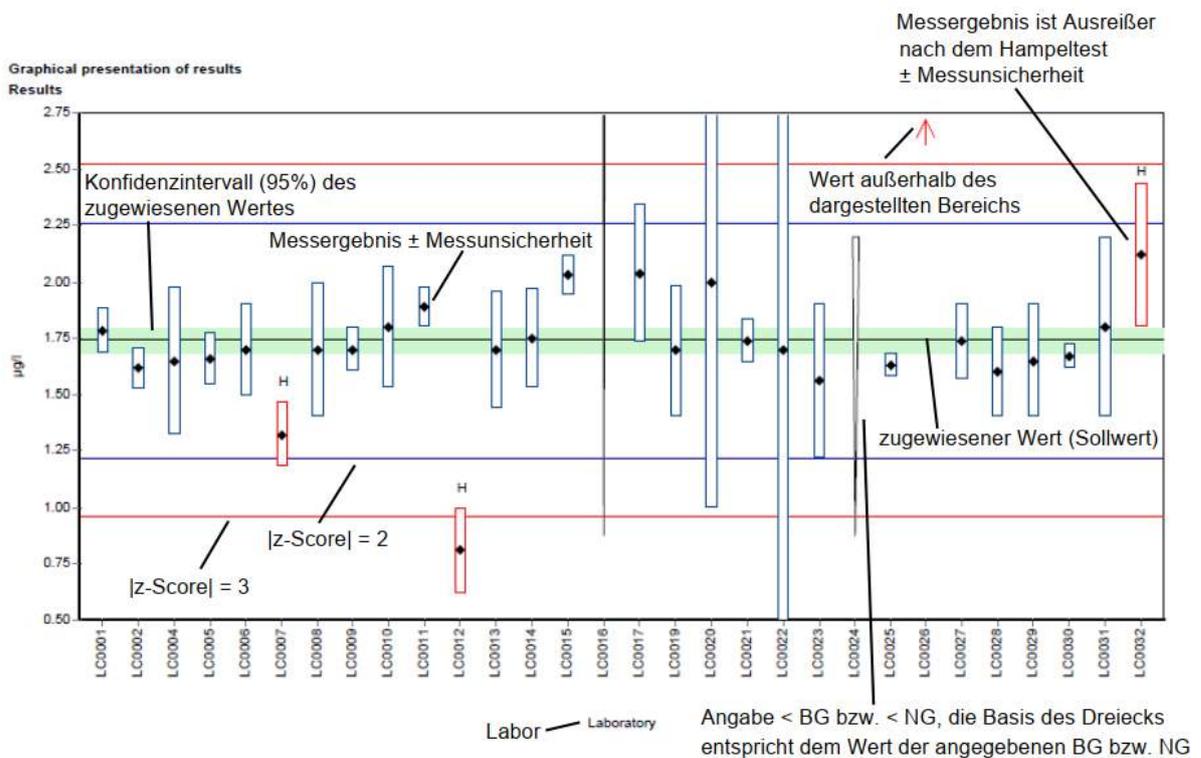
n Anzahl der Messergebnisse

\* Kennzeichnung für Hinweise zur Erläuterung

## D5.2. Graphische Darstellung der Ergebnisse

Nachfolgend wird die graphische Darstellung anhand von kommentierten Beispieldiagrammen erläutert.

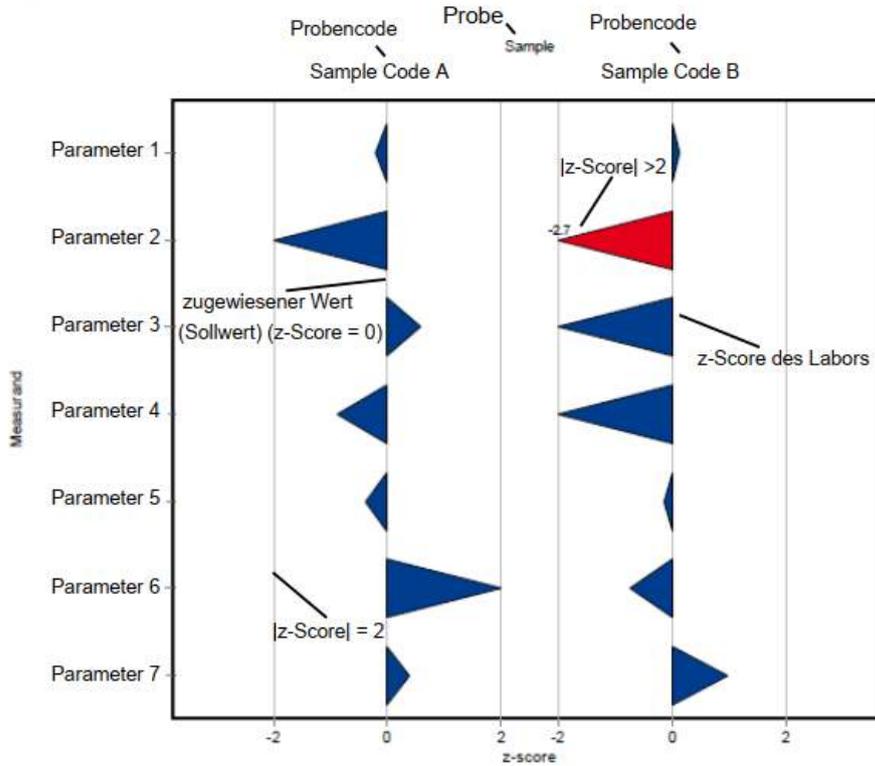
### Beispieldiagramm: Messwerte



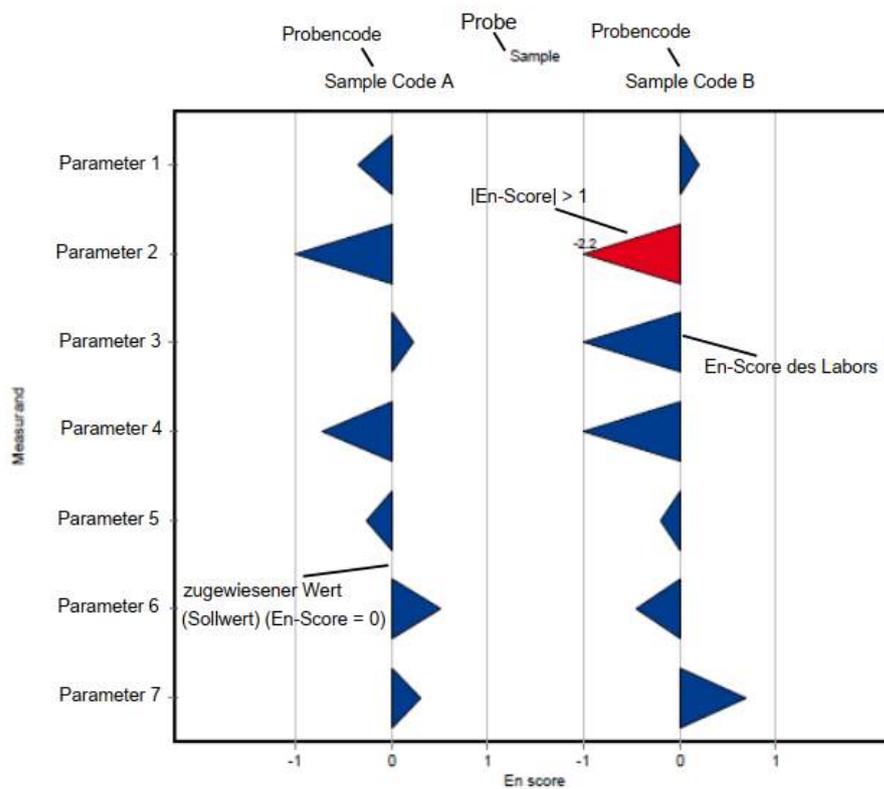
Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.



**Beispieldiagramm: 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 [%]
Benzol	B14 A	µg/l	1.17	±	0.0842	0.187	16
	B14 B	µg/l	6.72	±	0.372	1.08	16
Ethylbenzol	B14 A	µg/l	1.44	±	0.102	0.288	20
	B14 B	µg/l	6.27	±	0.421	1.25	20
Methyl-tert-butylether	B14 A	µg/l	1.54	±	0.156	0.247	16
	B14 B	µg/l	6.35	±	0.663	0.826	13
o-Xylol	B14 A	µg/l	1.51	±	0.113	0.226	15
	B14 B	µg/l	6.5	±	0.486	0.976	15
Summe von m-Xylol und p-Xylol	B14 A	µg/l	2.71	±	0.264	0.542	20
	B14 B	µg/l	9.01	±	0.786	1.8	20
Toluol	B14 A	µg/l	1.08	±	0.0828	0.237	22
	B14 B	µg/l	6.69	±	0.56	1.47	22

## D6.2. Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse

Parameter	Probe	Anzahl Labors für Berechnung	Anzahl Ausreißer Labors	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
Benzol	B14 A	17	1	µg/l	1.17	± 0.126	0.869	1.55	0.174	15
	B14 B	16	2	µg/l	6.72	± 0.557	5.12	8.01	0.743	11
Ethylbenzol	B14 A	17	1	µg/l	1.44	± 0.153	0.95	1.76	0.21	15
	B14 B	16	2	µg/l	6.27	± 0.632	4.74	7.96	0.842	13
Methyl-tert-butylether	B14 A	10	1	µg/l	1.54	± 0.234	1.09	1.8	0.246	16
	B14 B	10	1	µg/l	6.35	± 0.994	4.27	8.03	1.05	16
o-Xylol	B14 A	16	2	µg/l	1.51	± 0.169	1.08	1.9	0.226	15
	B14 B	16	1	µg/l	6.5	± 0.729	4.61	8.2	0.972	15
Summe von m-Xylol und p-Xylol	B14 A	17	1	µg/l	2.71	± 0.396	1.54	3.49	0.544	20
	B14 B	16	2	µg/l	9.01	± 1.18	5.24	11.4	1.57	17
Toluol	B14 A	17	0	µg/l	1.08	± 0.124	0.67	1.36	0.171	16
	B14 B	17	1	µg/l	6.69	± 0.84	5.13	9.79	1.15	17

## **E1. Description of the proficiency test**

### **E1.1. Design and implementation**

- Number of registrations: 20
- Number of submitted data records: 19
- Dispatch of samples: April 22<sup>nd</sup>, 2025
- Closing date for submission of data: May 20<sup>th</sup>, 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 was both carried out on April 15<sup>th</sup>, 2025.

The following samples were made available

- 1 sample groundwater (B14 A)
- 1 sample surface water (B14 B)

Both samples were stored at 4 +/- 3°C until further processing. The samples were filtered (40 µm) and partly spiked with specific substances in the stirring vessel.

The samples were filled into bottles under continuous stirring (stirring vessel) and stabilized by cooling.

The homogeneous proficiency test items were dispatched on April 22<sup>nd</sup>, 2025.

Each participant received:

- 2 samples each 600 ml, filled in 1 x 600 ml aluminium bottles respectively.

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

For reasons of stability, it was recommended to start the analysis by the 30<sup>th</sup> of April 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.

The determination of the parameters was performed at an external laboratory (accredited by EN ISO/IEC 17025) in subcontract (anonymous submission) and testing was performed 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 20<sup>th</sup> of May 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<sub>n</sub>-Score

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

E<sub>n</sub>-Scores were calculated 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
-------	---

$\bar{x}$	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<sub>n</sub>-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<sub>n</sub>-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<sub>n</sub>-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<sub>n</sub>-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 from 2013 to 2024 in real samples, evaluation criteria (RSDpool) were calculated. These criteria were compared with the relative reproducibility standard deviation ( $vR$ ) of the current proficiency testing.

Parameter MTBE for sample B14 A: The current reproducibility standard deviation ( $vR$ ) of 16 % was chosen for assessment.

For sample B14A parameter o-xylene an additional outlier according to Hampel (H95) was eliminated before the assigned value was defined (outliers o-xylene: LC0008 H95, LC0018 H99).

Parameters benzene, toluene, ethylbenzene, sum of m- and p-xylene for sample B14 A and parameters benzene, toluene, ethylbenzene, o-xylene, sum of m- and p-xylene and MTBE for sample B14 B: Scores for all listed parameters were calculated according to E2.

## E5. Annotations on tables and charts

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

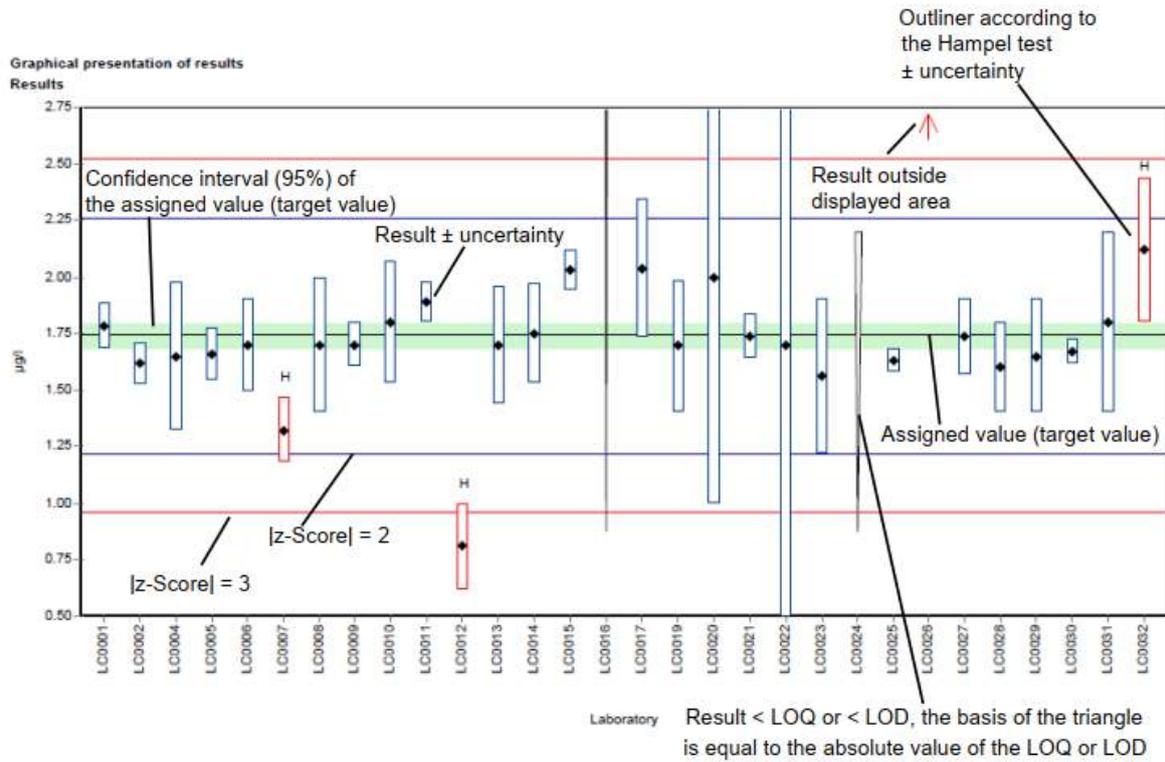
Parameter	Analyte identifier
Sample	Sample identifier
Unit	Given unit for result and uncertainty (e.g. µg/l)
Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criteria	Specified 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 <sub>n</sub> -Score	Deviation of result based on the assigned value (target value) given as a multiple of the combined expanded

	measurement uncertainty of the participant's results and expanded measurement uncertainty for the assigned value (3 significant digits, max. 2 decimal places given). Note: E <sub>n</sub> -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

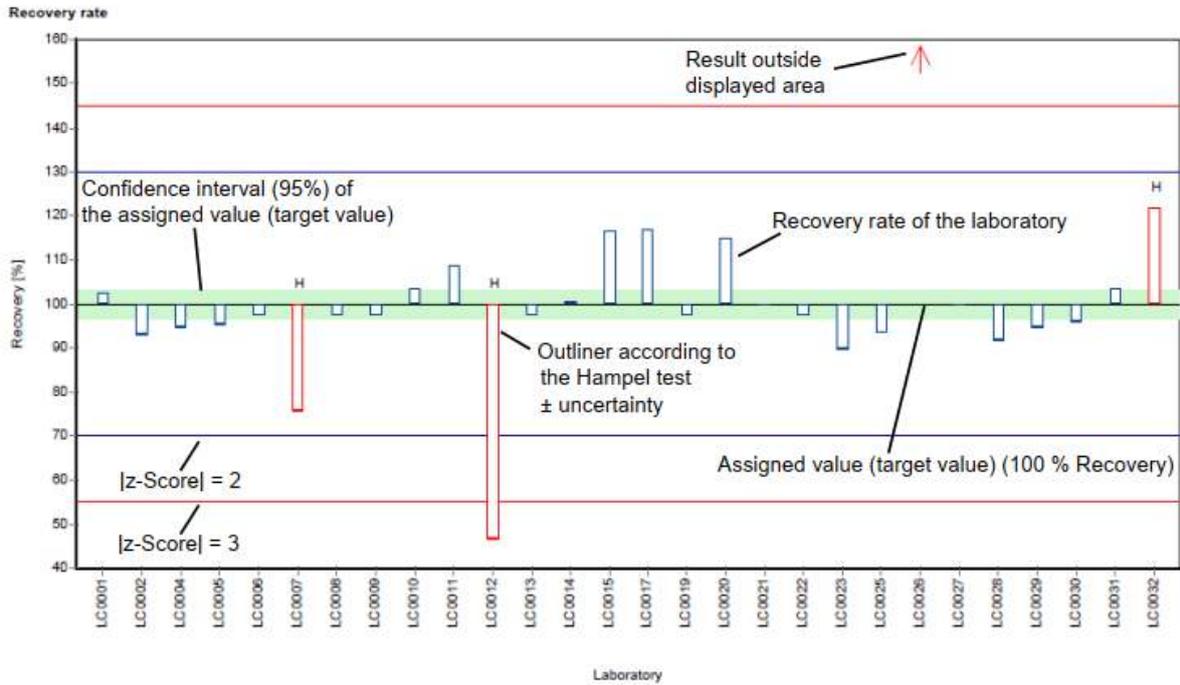
The graphic representation in the report is explained below by means of commented example diagrams:

### Example chart: Results



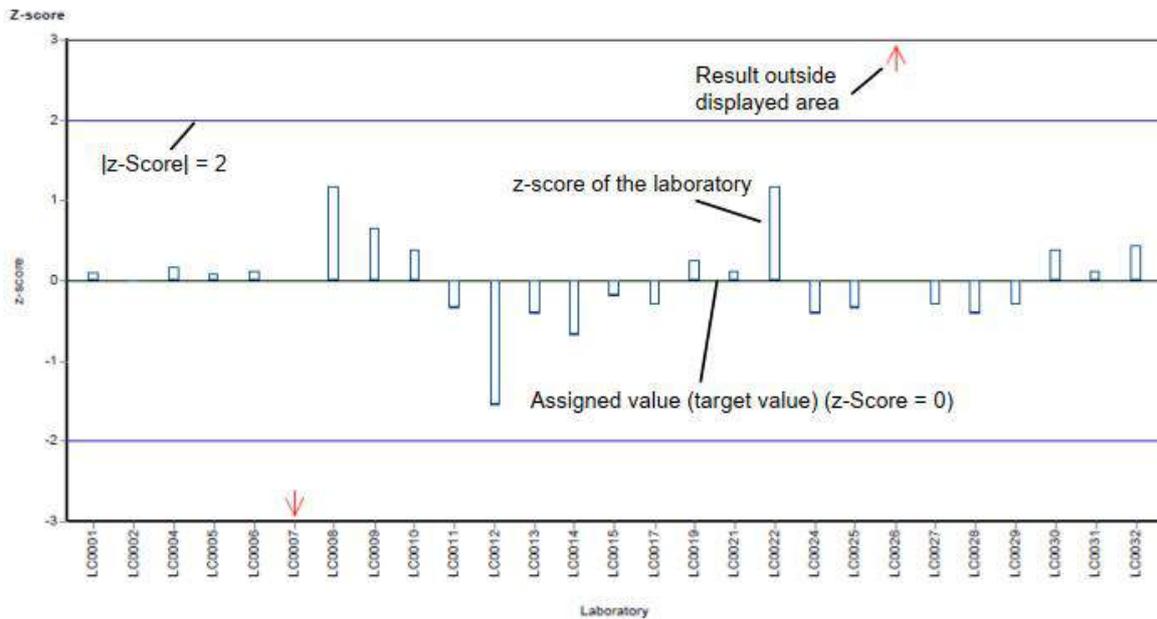
Different analysis methods are represented with different colors.

### Example chart: Recovery



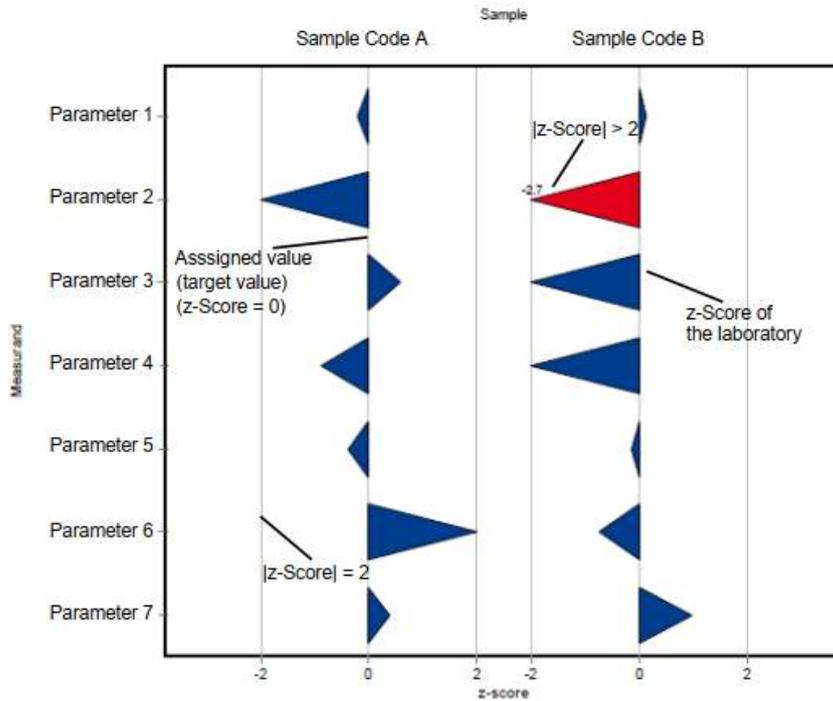
Different analysis methods are represented with different colors.

### Example chart: z-Score

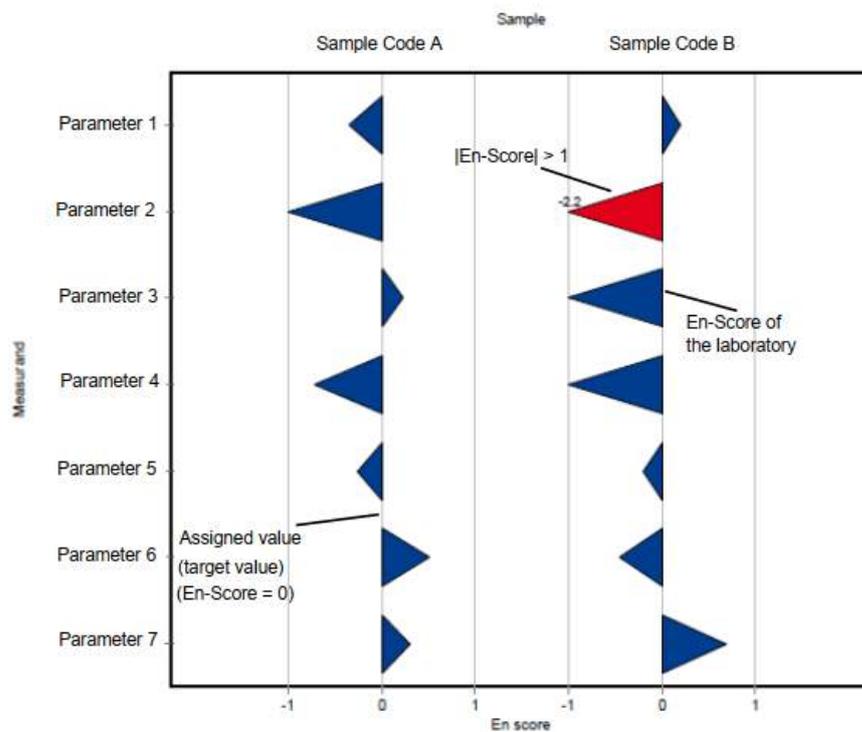


Different analysis methods are represented with different colors.

**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 [%]
Benzene	B14 A	µg/l	1.17	±	0.0842	0.187	16
	B14 B	µg/l	6.72	±	0.372	1.08	16
Ethylbenzene	B14 A	µg/l	1.44	±	0.102	0.288	20
	B14 B	µg/l	6.27	±	0.421	1.25	20
Methyl-tert-butyl-ether	B14 A	µg/l	1.54	±	0.156	0.247	16
	B14 B	µg/l	6.35	±	0.663	0.826	13
o-Xylene	B14 A	µg/l	1.51	±	0.113	0.226	15
	B14 B	µg/l	6.5	±	0.486	0.976	15
Sum of m-Xylene and p-Xylene	B14 A	µg/l	2.71	±	0.264	0.542	20
	B14 B	µg/l	9.01	±	0.786	1.8	20
Toluene	B14 A	µg/l	1.08	±	0.0828	0.237	22
	B14 B	µg/l	6.69	±	0.56	1.47	22

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

Parameter	Sample	Number of results for calculation	Number of outliers	Unit	Mean	±	CI (99%)	Minimum	Maximum	sR	vR [%]
Benzene	B14 A	17	1	µg/l	1.17	±	0.126	0.869	1.55	0.174	15
	B14 B	16	2	µg/l	6.72	±	0.557	5.12	8.01	0.743	11
Ethylbenzene	B14 A	17	1	µg/l	1.44	±	0.153	0.95	1.76	0.21	15
	B14 B	16	2	µg/l	6.27	±	0.632	4.74	7.96	0.842	13
Methyl-tert-butyl-ether	B14 A	10	1	µg/l	1.54	±	0.234	1.09	1.8	0.246	16
	B14 B	10	1	µg/l	6.35	±	0.994	4.27	8.03	1.05	16
o-Xylene	B14 A	16	2	µg/l	1.51	±	0.169	1.08	1.9	0.226	15
	B14 B	16	1	µg/l	6.5	±	0.729	4.61	8.2	0.972	15
Sum of m-Xylene and p-Xylene	B14 A	17	1	µg/l	2.71	±	0.396	1.54	3.49	0.544	20
	B14 B	16	2	µg/l	9.01	±	1.18	5.24	11.4	1.57	17
Toluene	B14 A	17	0	µg/l	1.08	±	0.124	0.67	1.36	0.171	16
	B14 B	17	1	µg/l	6.69	±	0.84	5.13	9.79	1.15	17

## E7. Parameterorientierte Auswertung / Parameter oriented report

Benzene .....	32
Ethylbenzene .....	40
Methyl-tert-butyl-ether .....	48
o-Xylene .....	56
Sum of m-Xylene and p-Xylene .....	64
Toluene .....	72

Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: Benzene

## Parameter oriented report

### B14 A

#### Benzene

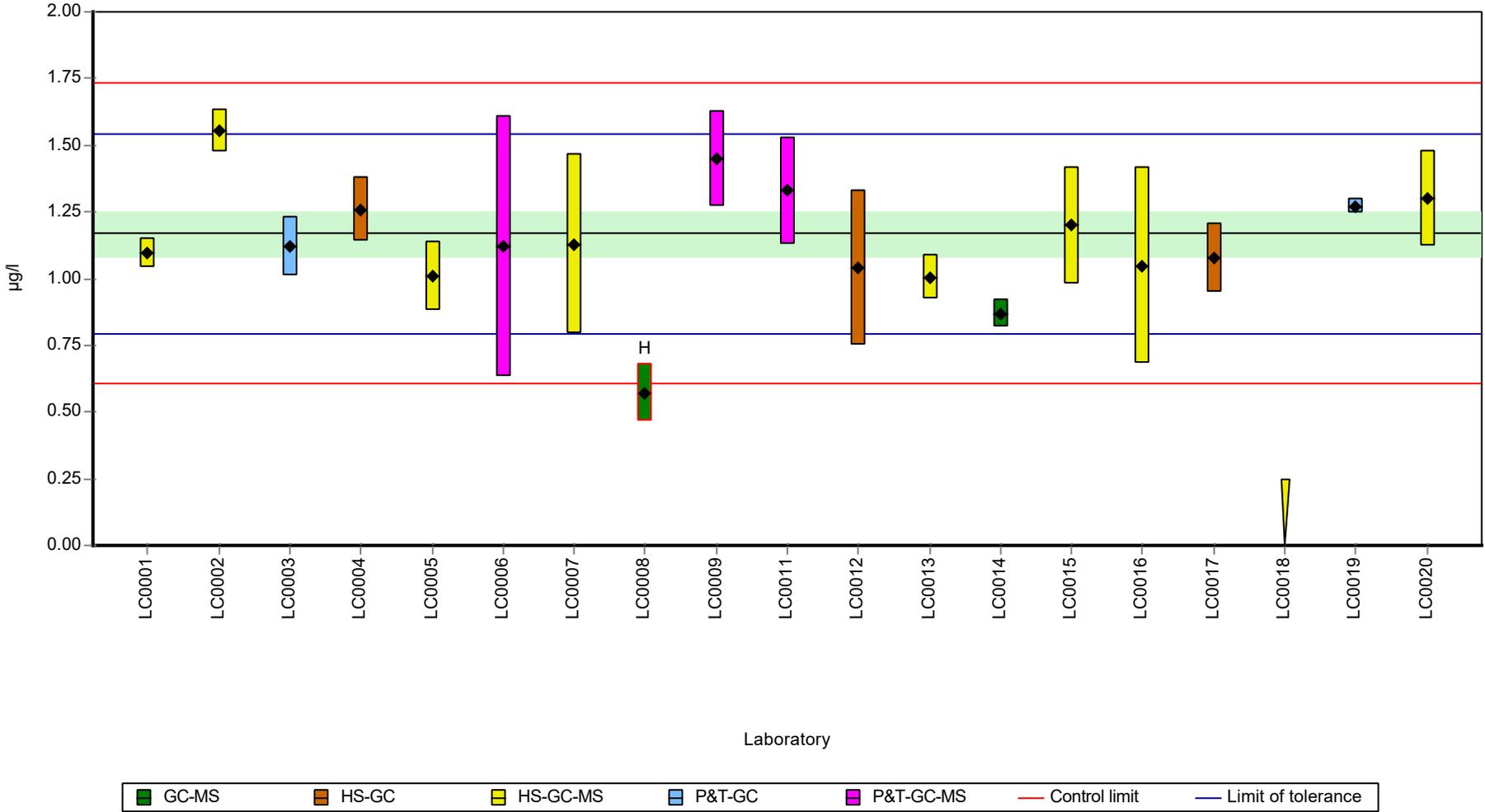
Unit	µg/l
Assigned value ± U (k=2)	1.17 ± 0.0842
Criterion	0.187 (16 %)
Minimum - Maximum	0.869 - 1.55
Control test value ± U (k=2)	1.14 ± 0.263

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.0964	0.056	93.7	-0.39	
LC0002	1.554	0.08	133	2.05	
LC0003	1.12	0.11	95.8	-0.27	
LC0004	1.26	0.12	108	0.48	
LC0005	1.01	0.13	86.4	-0.85	
LC0006	1.12	0.49	95.8	-0.27	
LC0007	1.13	0.339	96.6	-0.21	
LC0008	0.572	0.11	48.9	-3.19	H
LC0009	1.45	0.18	124	1.5	
LC0010	-	-	-	-	
LC0011	1.33	0.2	114	0.86	
LC0012	1.04	0.29	88.9	-0.69	
LC0013	1.006	0.0849	86	-0.87	
LC0014	0.869	0.053	74.3	-1.61	
LC0015	1.2	0.22	103	0.16	
LC0016	1.048	0.367	89.6	-0.65	
LC0017	1.08	0.13	92.3	-0.48	
LC0018	< 0.25 (LOQ)	-	-	-	FN
LC0019	1.27	0.028	109	0.54	
LC0020	1.3	0.18	111	0.7	

#### Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	1.14 ± 0.155	1.17 ± 0.126	µg/l
Minimum	0.572	0.869	µg/l
Maximum	1.55	1.55	µg/l
Standard deviation	0.22	0.174	µg/l
rel. standard deviation	19.3	14.8	%
n	18	17	-

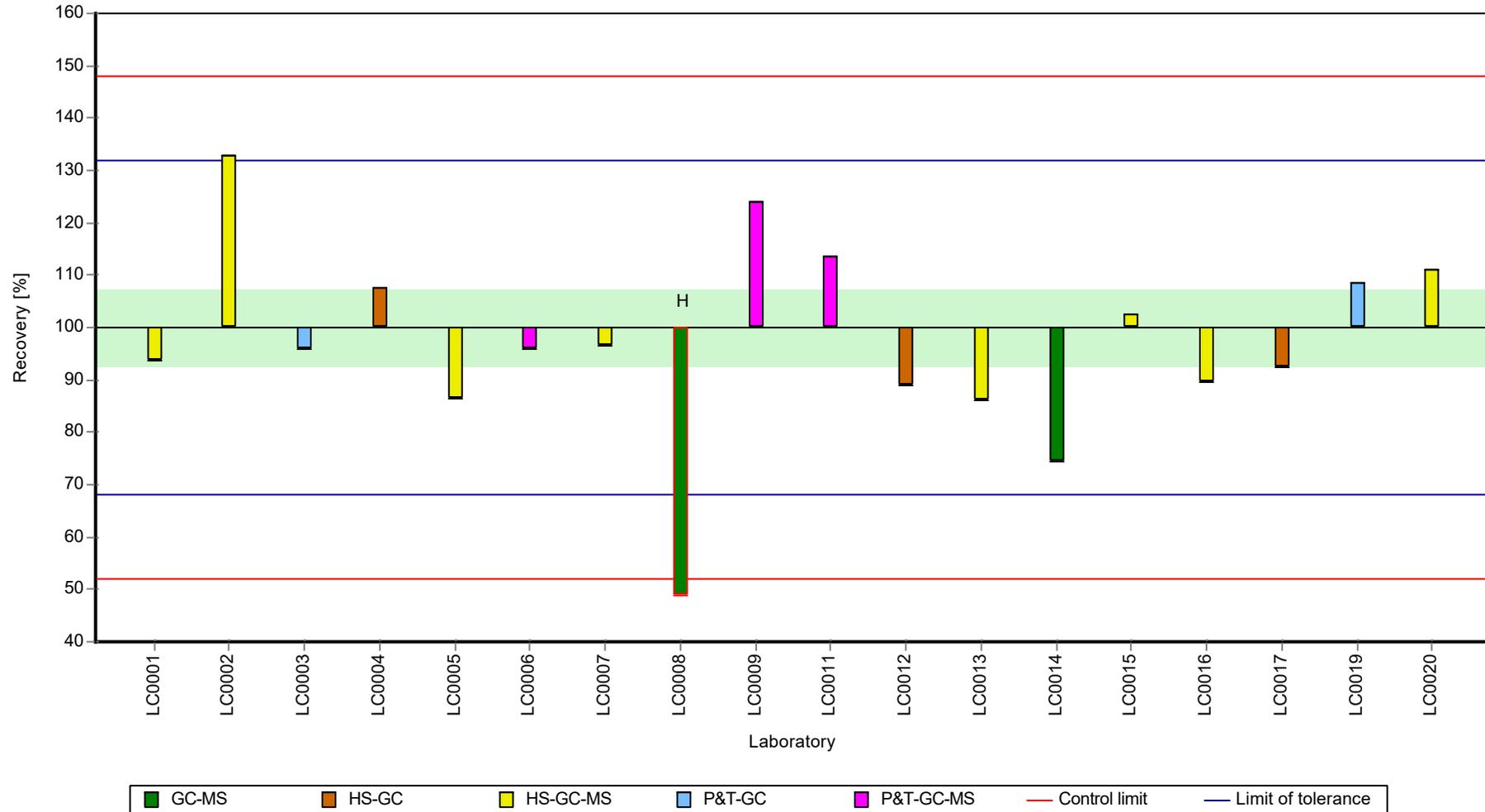
Graphical presentation of results  
Results



Parameter oriented report BTEX/MTBE - B14

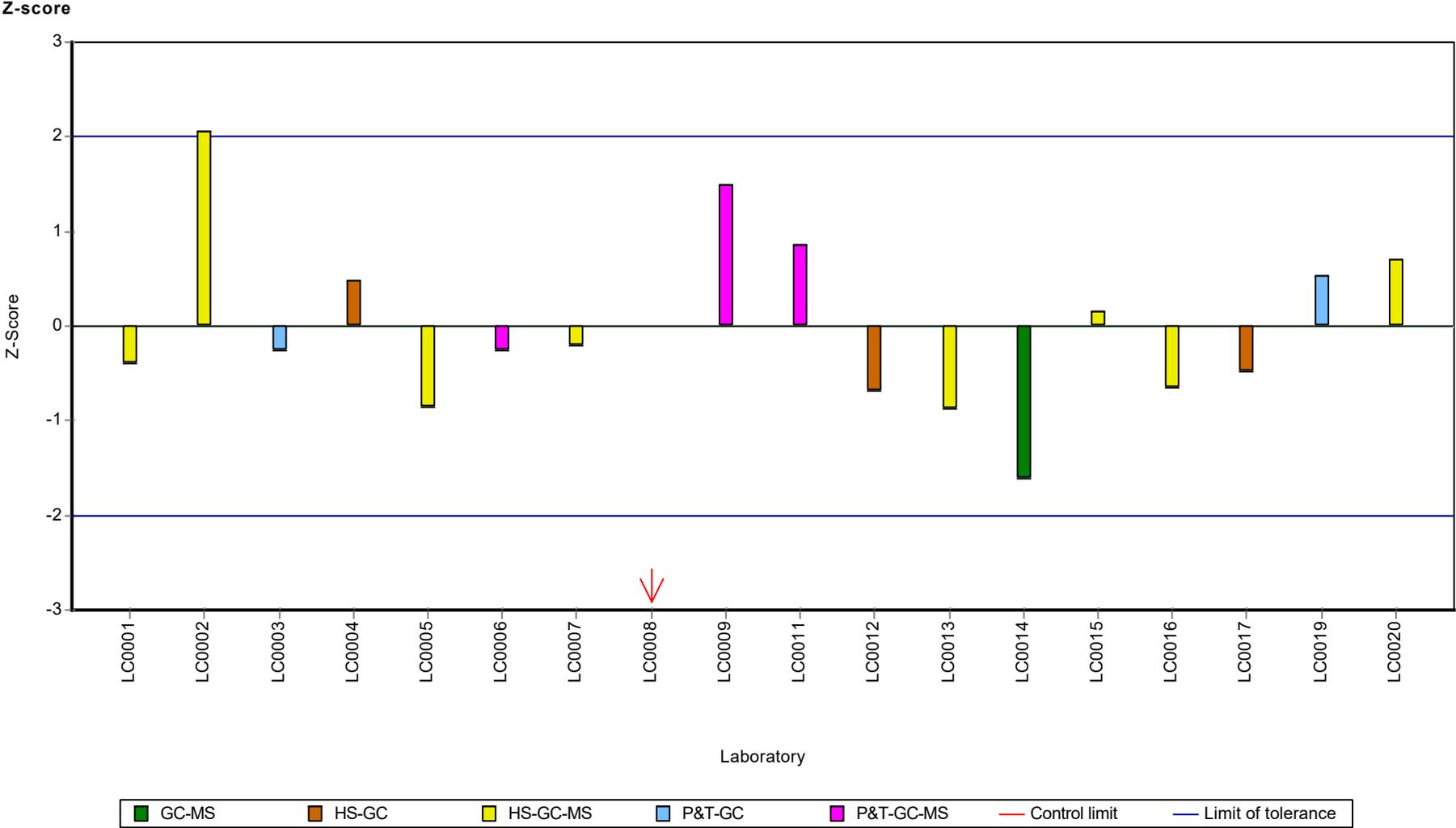
Sample: B14A, Parameter: Benzene

Recovery rate



Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: Benzene



## Parameter oriented report

### B14 B

#### Benzene

Unit	µg/l
Assigned value ± U (k=2)	6.72 ± 0.372
Criterion	1.08 (16 %)
Minimum - Maximum	5.12 - 8.01
Control test value ± U (k=2)	7.01 ± 1.61

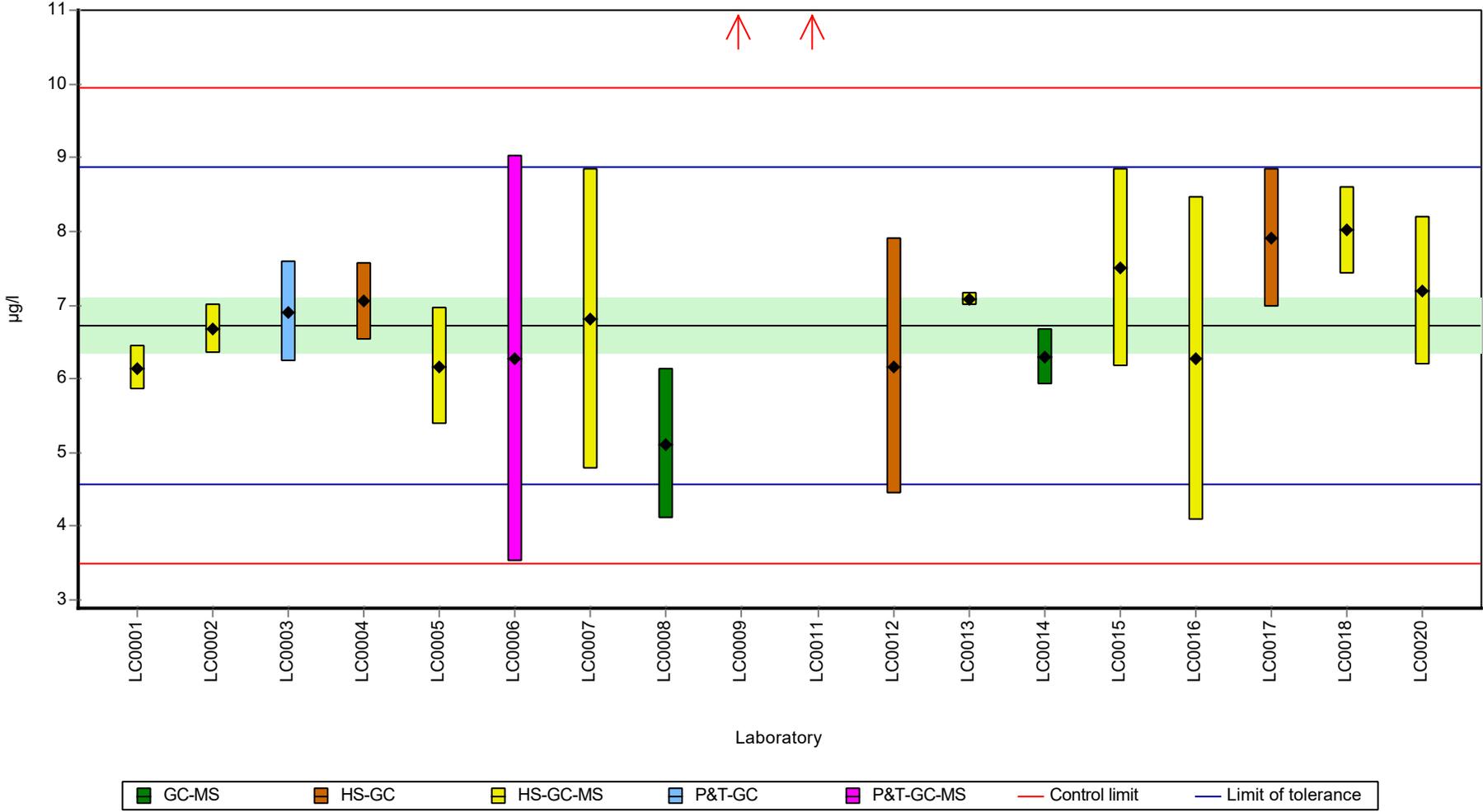
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	6.1485	0.31	91.4	-0.54	
LC0002	6.677	0.3439	99.3	-0.04	
LC0003	6.91	0.69	103	0.17	
LC0004	7.05	0.53	105	0.3	
LC0005	6.17	0.79	91.8	-0.52	
LC0006	6.27	2.76	93.2	-0.42	
LC0007	6.82	2.04	101	0.09	
LC0008	5.117	1.02	76.1	-1.49	
LC0009	12.2	1.5	181	5.09	H
LC0010	-	-	-	-	
LC0011	11.6	1.7	173	4.53	H
LC0012	6.17	1.73	91.8	-0.52	
LC0013	7.08	0.0849	105	0.33	
LC0014	6.29	0.38	93.5	-0.4	
LC0015	7.5	1.35	112	0.72	
LC0016	6.275	2.196	93.3	-0.42	
LC0017	7.91	0.95	118	1.1	
LC0018	8.01	0.6	119	1.2	
LC0019	-	-	-	-	
LC0020	7.19	1	107	0.43	

#### Characteristics of parameter

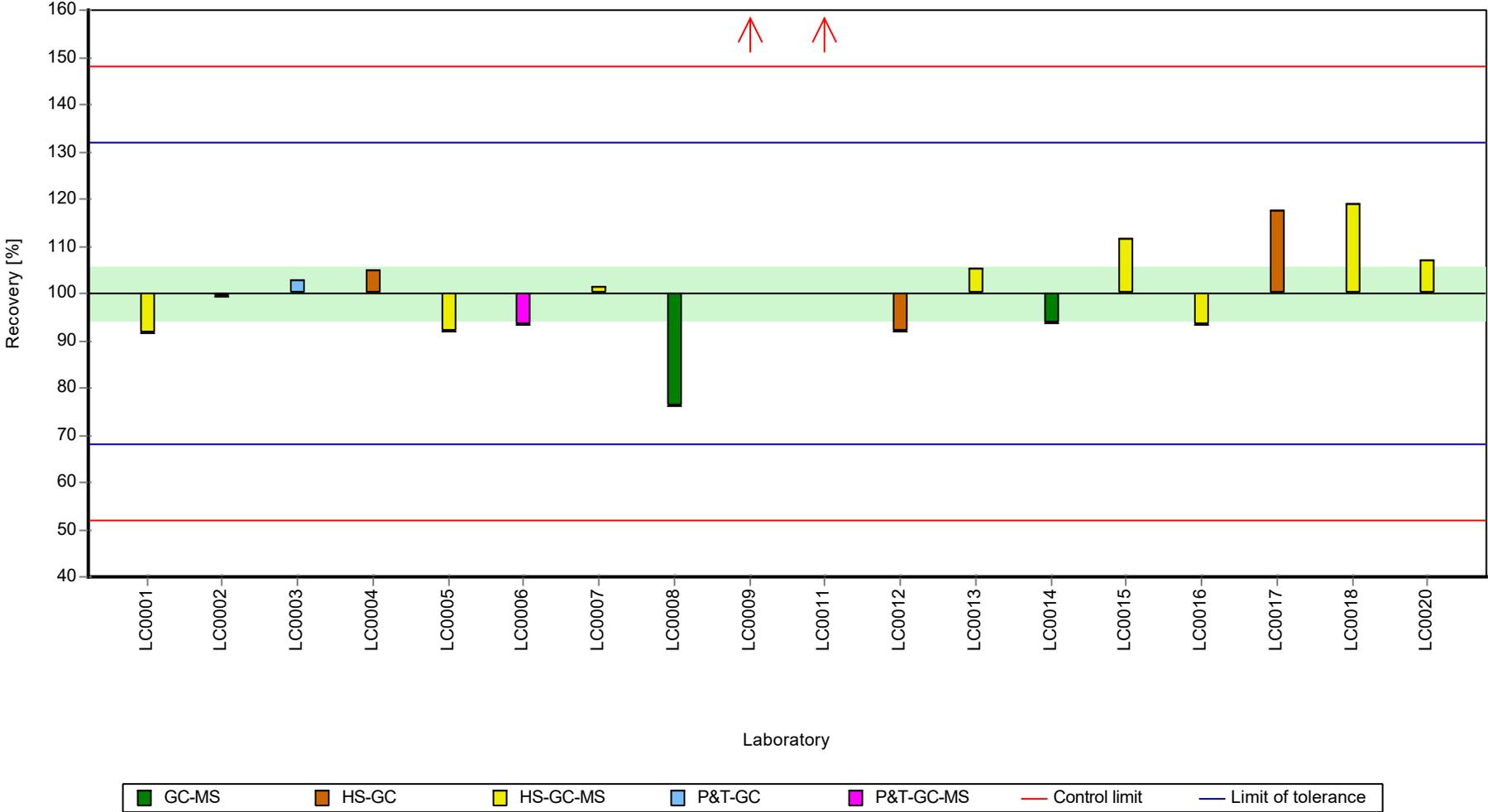
	all results	w ithout outliers	Unit
Mean ± CI (99%)	7.3 ± 1.28	6.72 ± 0.557	µg/l
Minimum	5.12	5.12	µg/l
Maximum	12.2	8.01	µg/l
Standard deviation	1.82	0.743	µg/l
rel. standard deviation	24.9	11.1	%
n	18	16	-

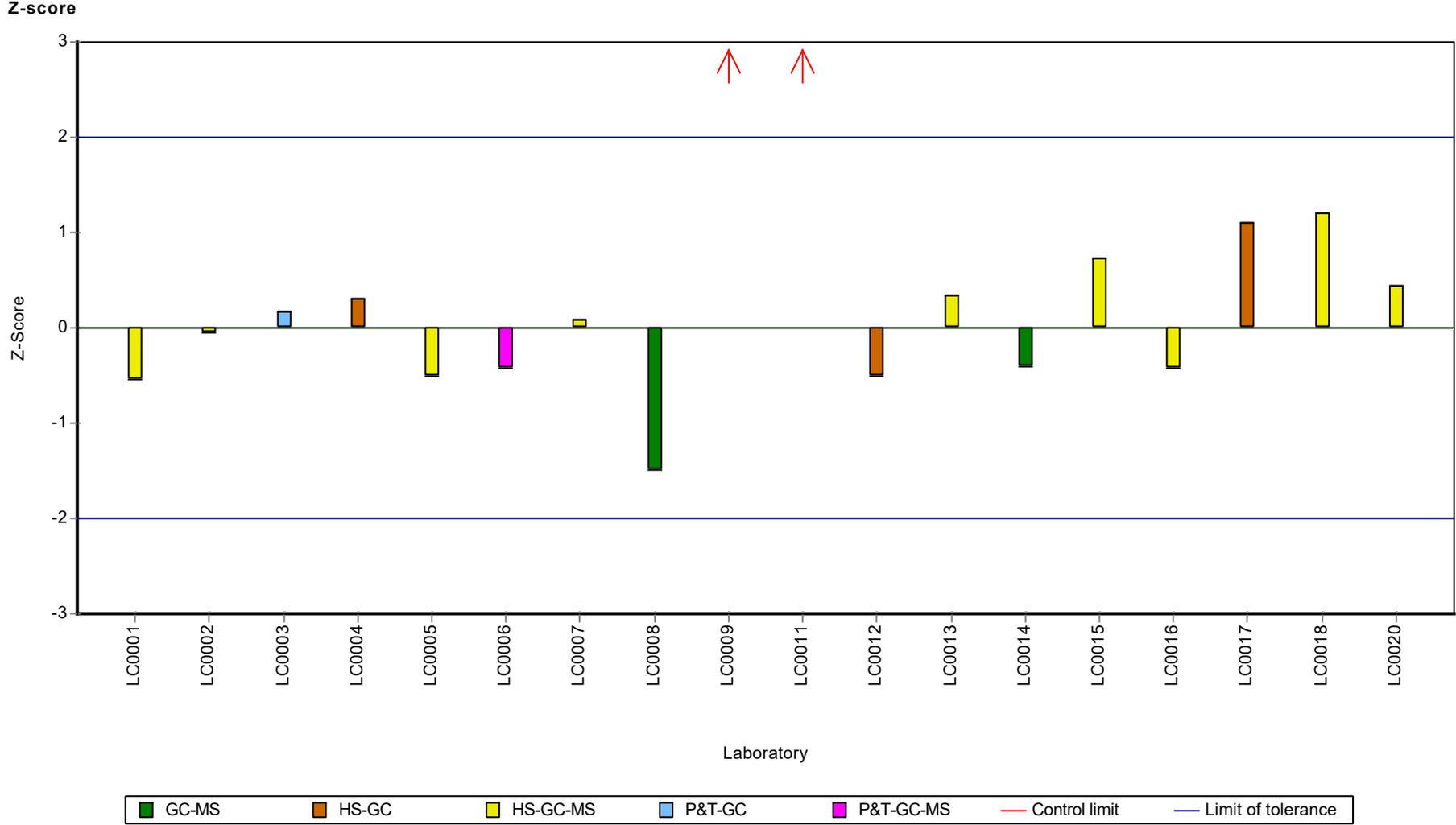
Graphical presentation of results

Results



Recovery rate





Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: Ethylbenzene

## Parameter oriented report

### B14 A

#### Ethylbenzene

Unit	µg/l
Assigned value ± U (k=2)	1.44 ± 0.102
Criterion	0.288 (20 %)
Minimum - Maximum	0.95 - 1.76
Control test value ± U (k=2)	1.47 ± 0.367

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.2756	0.061	88.7	-0.57	
LC0002	1.76	0.0942	122	1.12	
LC0003	1.46	0.19	101	0.07	
LC0004	1.67	0.13	116	0.8	
LC0005	1.45	0.21	101	0.04	
LC0006	0.95	0.42	66	-1.7	
LC0007	1.53	0.459	106	0.32	
LC0008	0.69	0.14	48	-2.6	H
LC0009	1.56	0.34	108	0.42	
LC0010	-	-	-	-	
LC0011	1.17	0.17	81.3	-0.93	
LC0012	1.42	0.6	98.7	-0.07	
LC0013	1.165	0.1179	81	-0.95	
LC0014	1.34	0.11	93.1	-0.34	
LC0015	1.6	0.29	111	0.56	
LC0016	1.433	0.501	99.6	-0.02	
LC0017	1.455	0.17	101	0.06	
LC0018	< 0.25 (LOQ)	-	-	-	FN
LC0019	1.7	0.02	118	0.91	
LC0020	1.52	0.32	106	0.28	

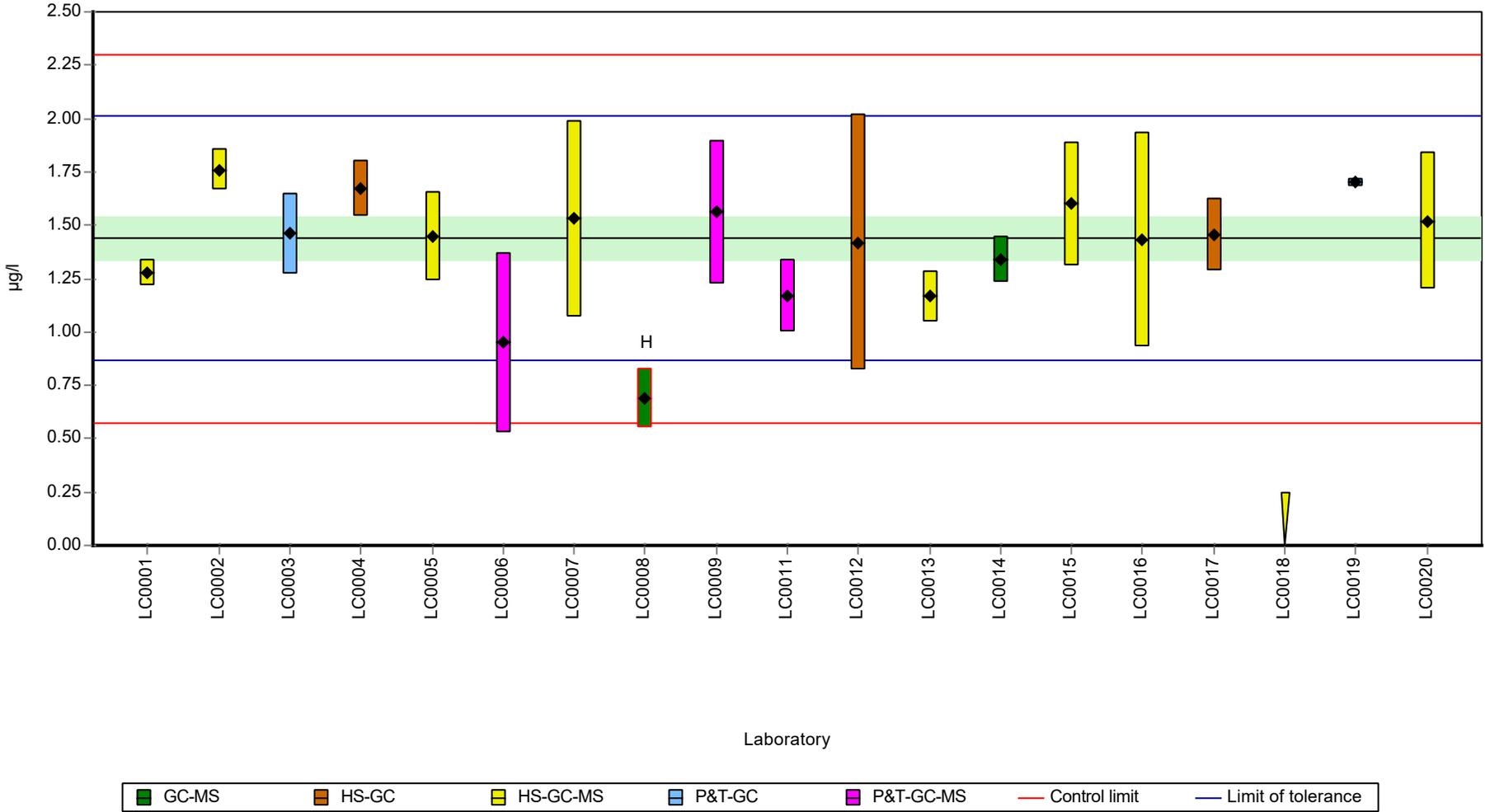
#### Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	1.4 ± 0.19	1.44 ± 0.153	µg/l
Minimum	0.69	0.95	µg/l
Maximum	1.76	1.76	µg/l
Standard deviation	0.269	0.21	µg/l
rel. standard deviation	19.3	14.6	%
n	18	17	-

Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: Ethylbenzene

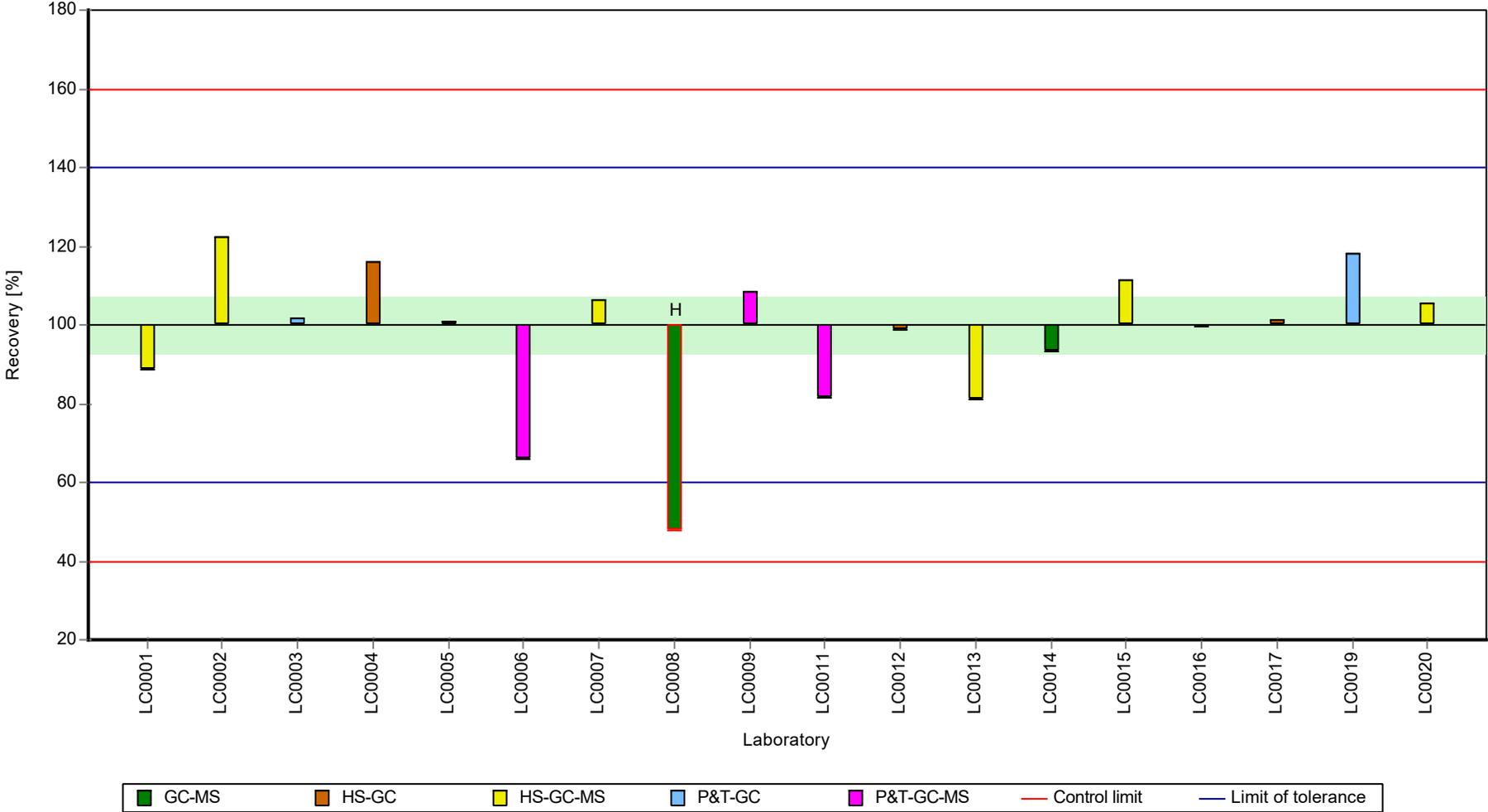
Graphical presentation of results  
Results



Parameter oriented report BTEX/MTBE - B14

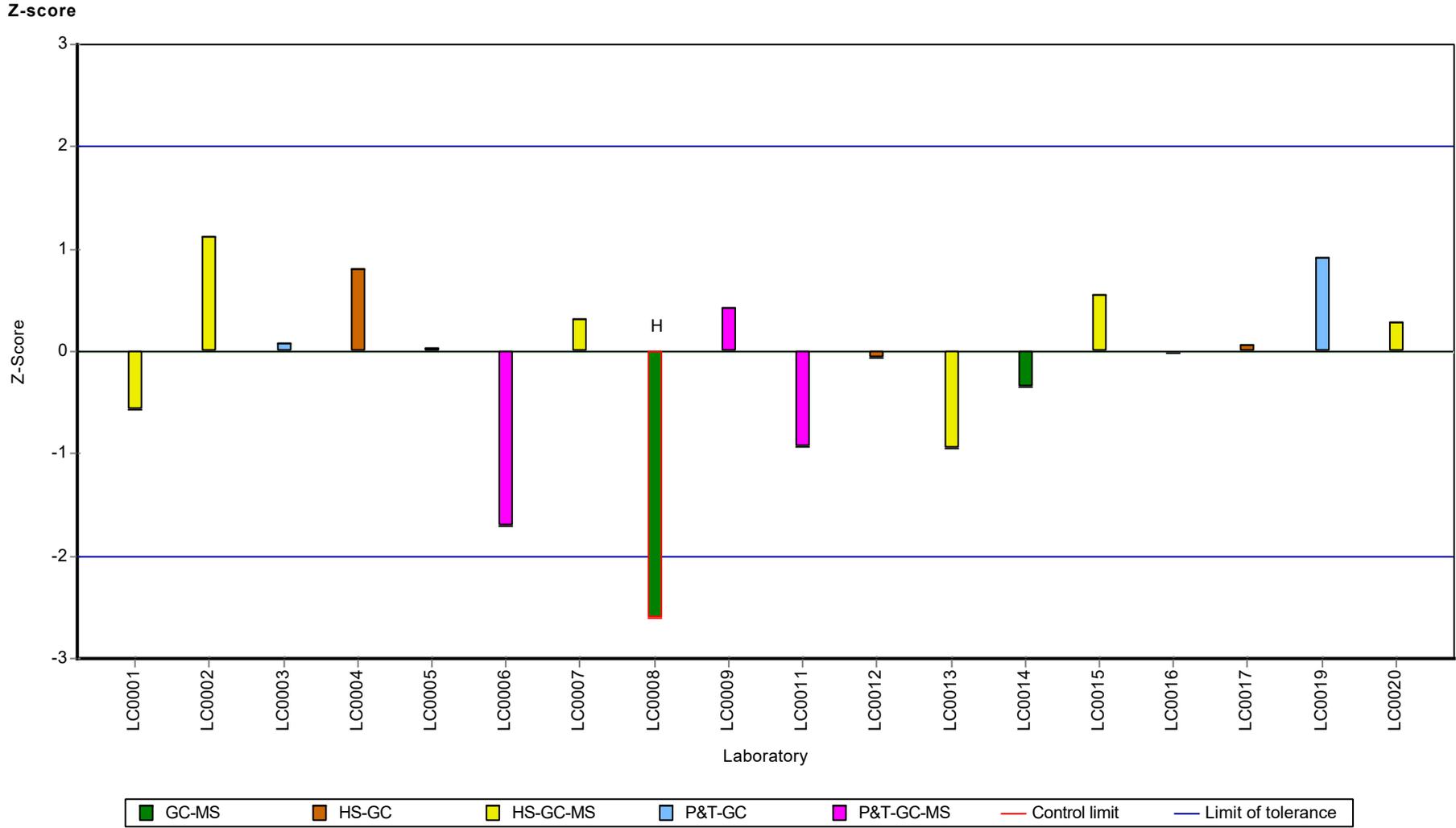
Sample: B14A, Parameter: Ethylbenzene

Recovery rate



Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: Ethylbenzene



## Parameter oriented report

### B14 B

#### Ethylbenzene

Unit	µg/l
Assigned value ± U (k=2)	6.27 ± 0.421
Criterion	1.25 (20 %)
Minimum - Maximum	4.74 - 7.96
Control test value ± U (k=2)	5.97 ± 1.49

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	5.7595	0.27	91.8	-0.41	
LC0002	6.652	0.3559	106	0.3	
LC0003	6.39	0.81	102	0.09	
LC0004	6.48	0.54	103	0.16	
LC0005	5.92	0.86	94.3	-0.28	
LC0006	4.74	2.08	75.5	-1.22	
LC0007	6.3	1.89	100	0.02	
LC0008	3.853	0.78	61.4	-1.93	H
LC0009	8.71	1.92	139	1.94	H
LC0010	-	-	-	-	
LC0011	4.98	0.75	79.4	-1.03	
LC0012	5.79	2.43	92.3	-0.39	
LC0013	7.669	0.1179	122	1.11	
LC0014	6.01	0.51	95.8	-0.21	
LC0015	7.2	1.3	115	0.74	
LC0016	6.117	2.141	97.5	-0.13	
LC0017	7.96	0.95	127	1.34	
LC0018	6.07	0.6	96.7	-0.16	
LC0019	-	-	-	-	
LC0020	6.36	1.35	101	0.07	

#### Characteristics of parameter

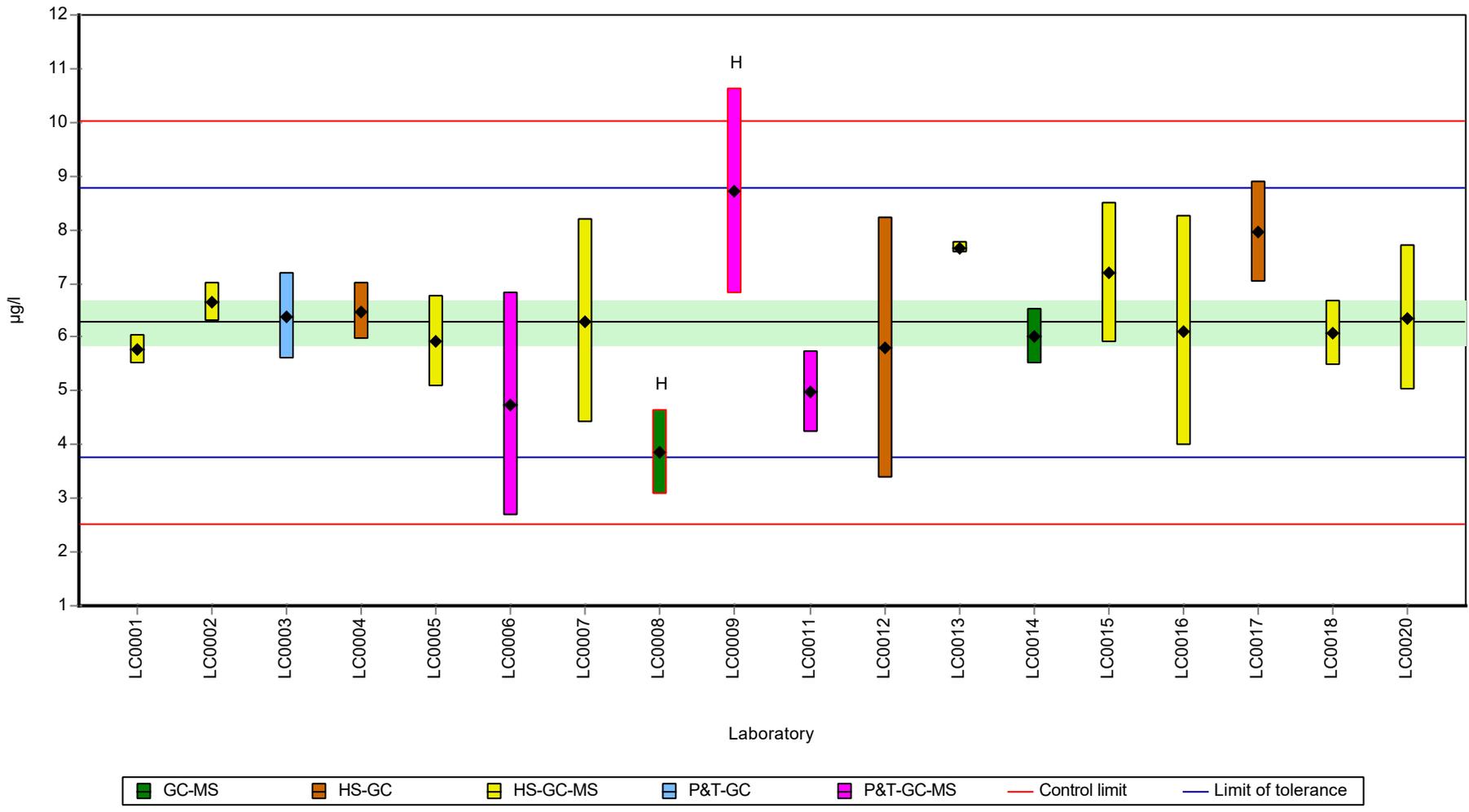
	all results	w ithout outliers	Unit
Mean ± CI (99%)	6.28 ± 0.812	6.27 ± 0.632	µg/l
Minimum	3.85	4.74	µg/l
Maximum	8.71	7.96	µg/l
Standard deviation	1.15	0.842	µg/l
rel. standard deviation	18.3	13.4	%
n	18	16	-

Parameter oriented report BTEX/MTBE - B14

Sample: B14B, Parameter: Ethylbenzene

Graphical presentation of results

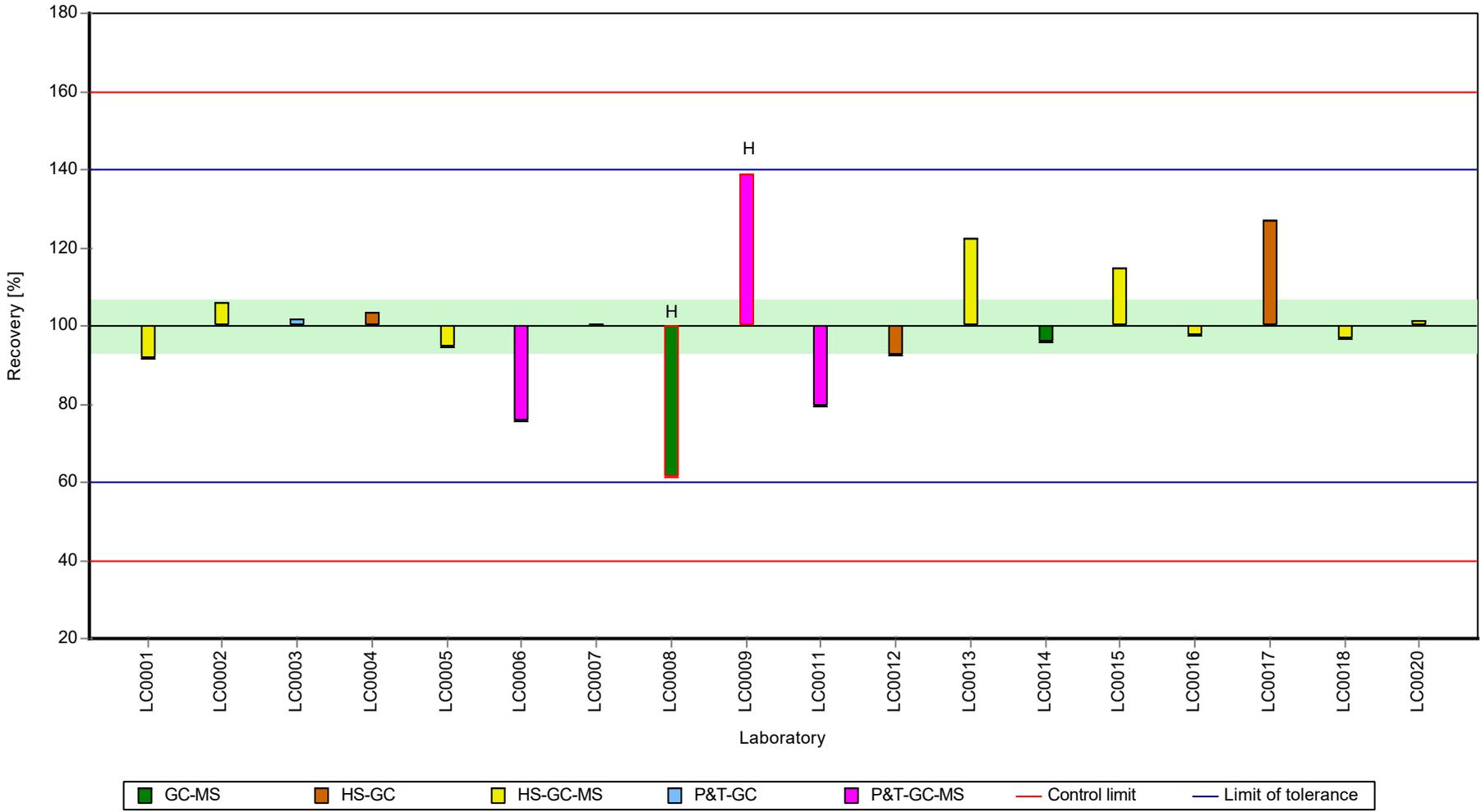
Results



Parameter oriented report BTEX/MTBE - B14

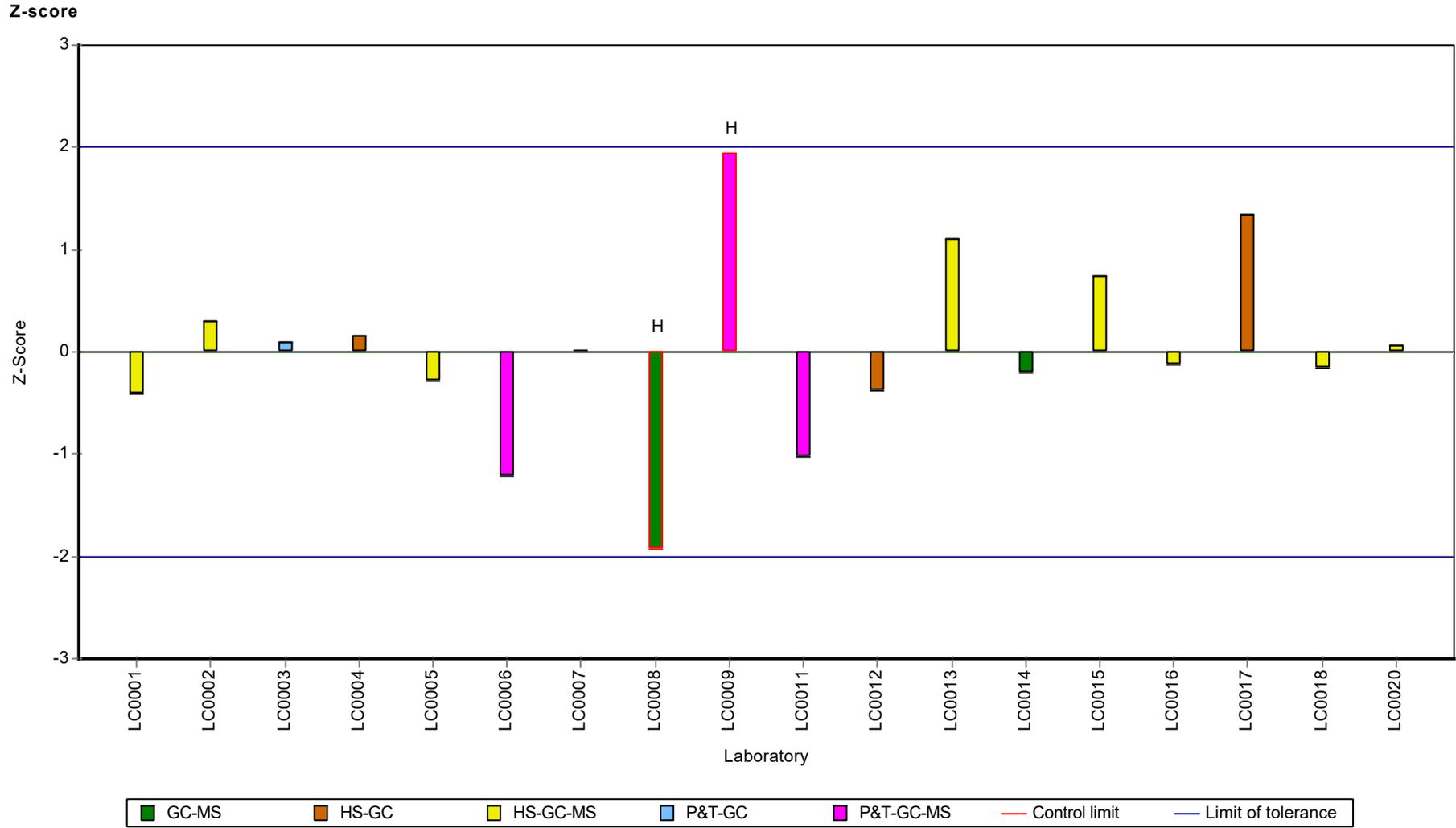
Sample: B14B, Parameter: Ethylbenzene

Recovery rate



Parameter oriented report BTEX/MTBE - B14

Sample: B14B, Parameter: Ethylbenzene



Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: Methyl-tert-butyl-ether

## Parameter oriented report

### B14 A

#### Methyl-tert-butyl-ether

Unit	µg/l
Assigned value ± U (k=2)	1.54 ± 0.156
Criterion	0.247 (16 %)
Minimum - Maximum	1.09 - 1.8
Control test value ± U (k=2)	1.60 ± 0.496

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.6792	0.16	109	0.56	
LC0002	1.56	0.0827	101	0.08	
LC0003	1.66	0.21	108	0.48	
LC0004	-	-	-	-	
LC0005	1.5	0.23	97.3	-0.17	
LC0006	1.13	0.49	73.3	-1.67	
LC0007	1.72	0.258	112	0.72	
LC0008	-	-	-	-	
LC0009	2.47	0.54	160	3.77	H
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	1.09	0.31	70.7	-1.83	
LC0013	1.534	0.1131	99.5	-0.03	
LC0014	-	-	-	-	
LC0015	1.8	0.32	117	1.05	
LC0016	-	-	-	-	
LC0017	1.74	0.25	113	0.81	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	

#### Characteristics of parameter

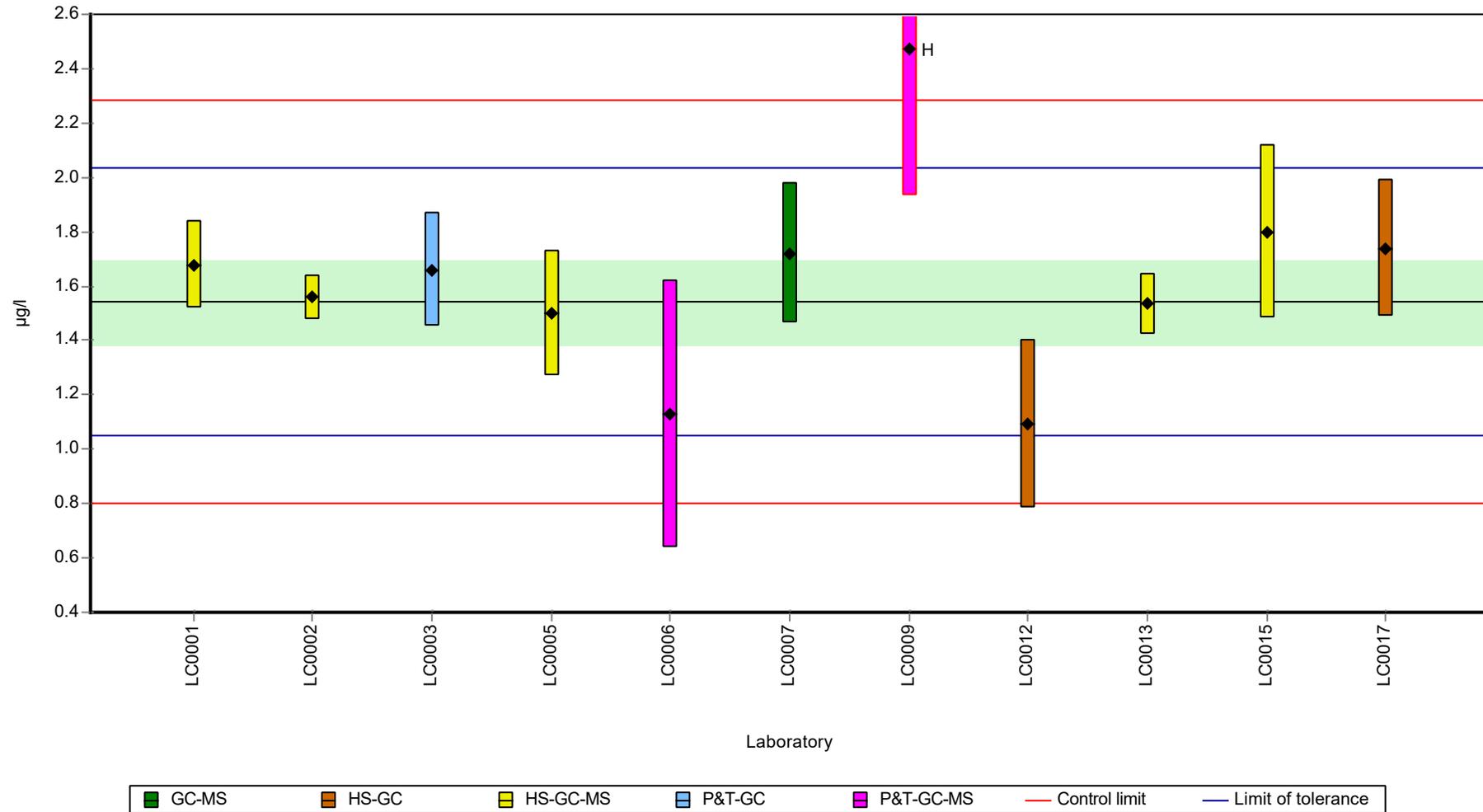
	all results	w ithout outliers	Unit
Mean ± CI (99%)	1.63 ± 0.33	1.54 ± 0.234	µg/l
Minimum	1.09	1.09	µg/l
Maximum	2.47	1.8	µg/l
Standard deviation	0.365	0.246	µg/l
rel. standard deviation	22.4	16	%
n	11	10	-

Parameter oriented report BTEX/MTBE - B14

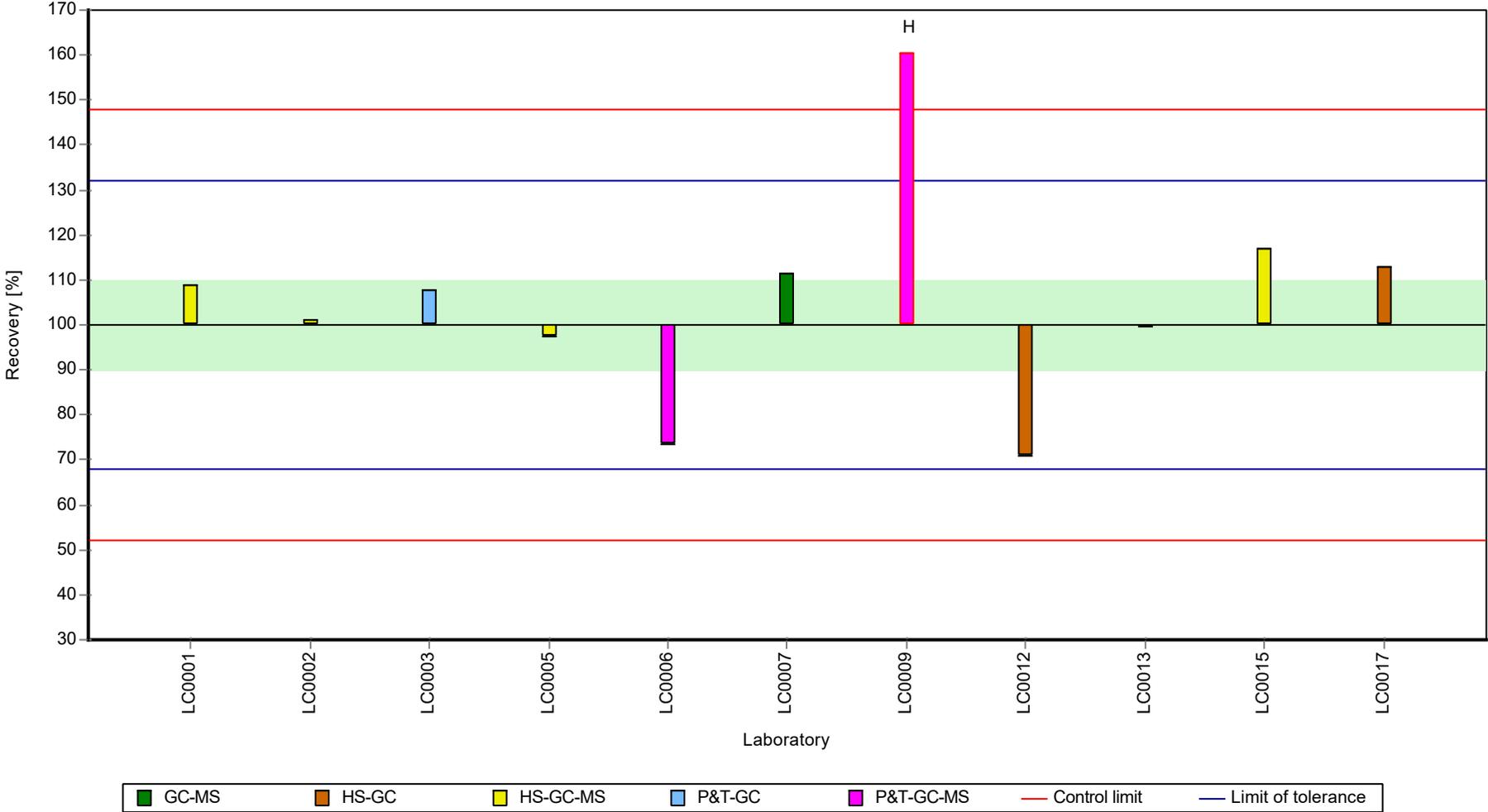
Sample: B14A, Parameter: Methyl-tert-butyl-ether

Graphical presentation of results

Results

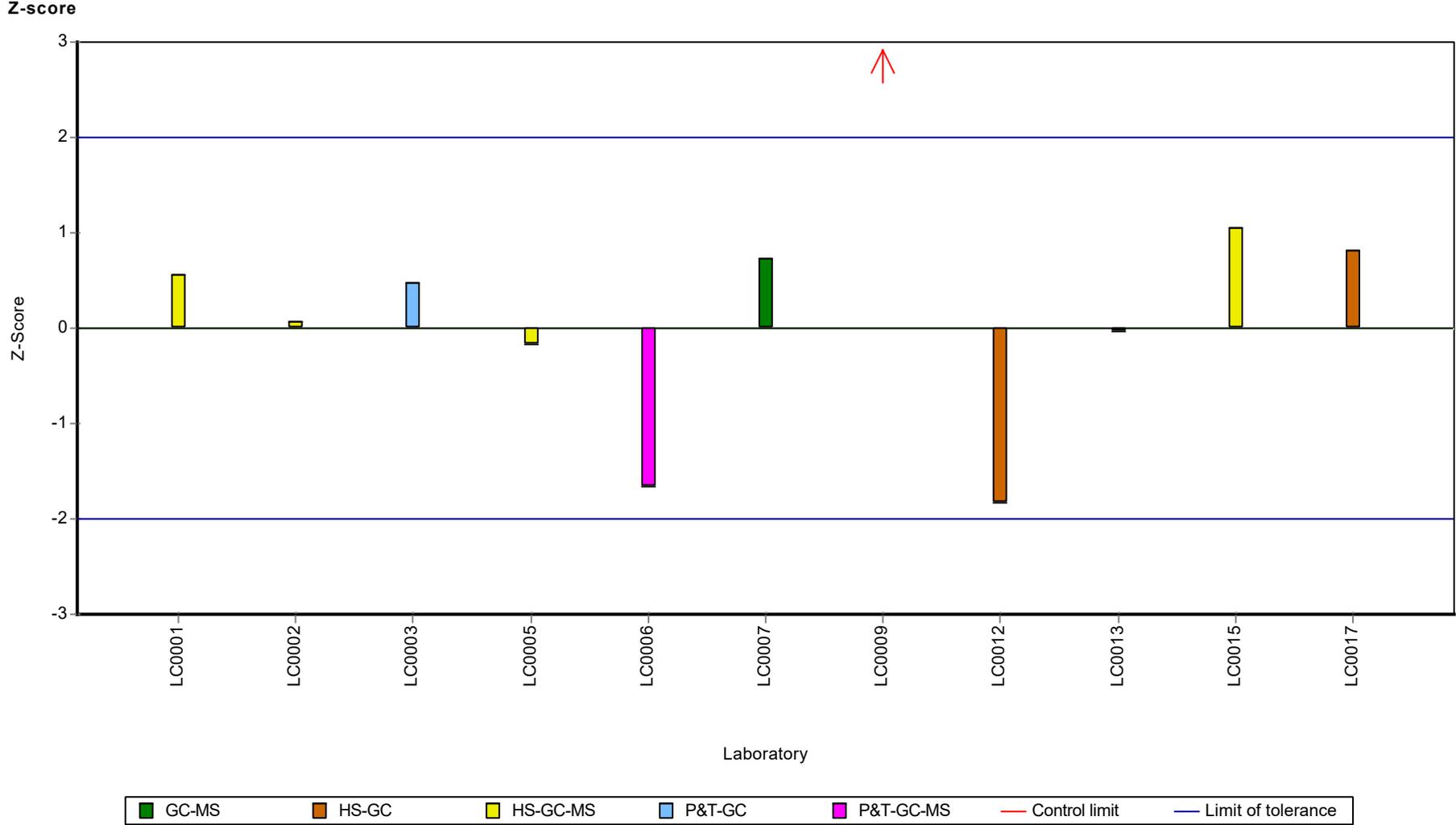


Recovery rate



Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: Methyl-tert-butyl-ether



Parameter oriented report BTEX/MTBE - B14

Sample: B14B, Parameter: Methyl-tert-butyl-ether

## Parameter oriented report

### B14 B

#### Methyl-tert-butyl-ether

Unit	µg/l
Assigned value ± U (k=2)	6.35 ± 0.663
Criterion	0.826 (13 %)
Minimum - Maximum	4.27 - 8.03
Control test value ± U (k=2)	6.58 ± 2.04

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	6.4942	0.64	102	0.17	
LC0002	6.024	0.3193	94.8	-0.4	
LC0003	8.03	1	126	2.03	
LC0004	-	-	-	-	
LC0005	5.81	0.88	91.4	-0.66	
LC0006	5.48	2.41	86.2	-1.06	
LC0007	6.32	0.948	99.5	-0.04	
LC0008	-	-	-	-	
LC0009	12.9	2.8	203	7.92	H
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	4.27	1.28	67.2	-2.52	
LC0013	6.99	0.1131	110	0.77	
LC0014	-	-	-	-	
LC0015	6.8	1.22	107	0.54	
LC0016	-	-	-	-	
LC0017	7.326	1	115	1.18	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	

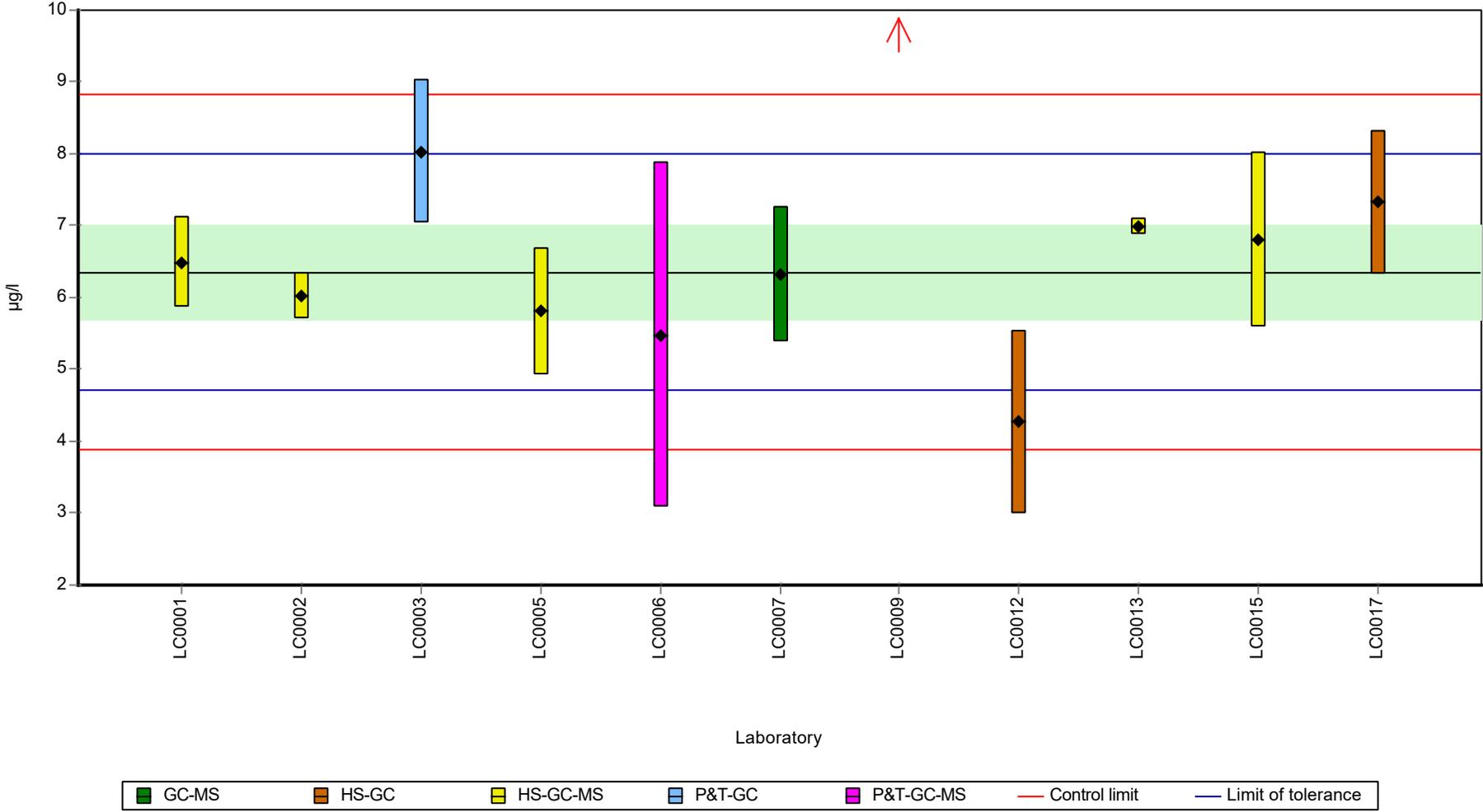
#### Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	6.95 ± 2	6.35 ± 0.994	µg/l
Minimum	4.27	4.27	µg/l
Maximum	12.9	8.03	µg/l
Standard deviation	2.21	1.05	µg/l
rel. standard deviation	31.8	16.5	%
n	11	10	-

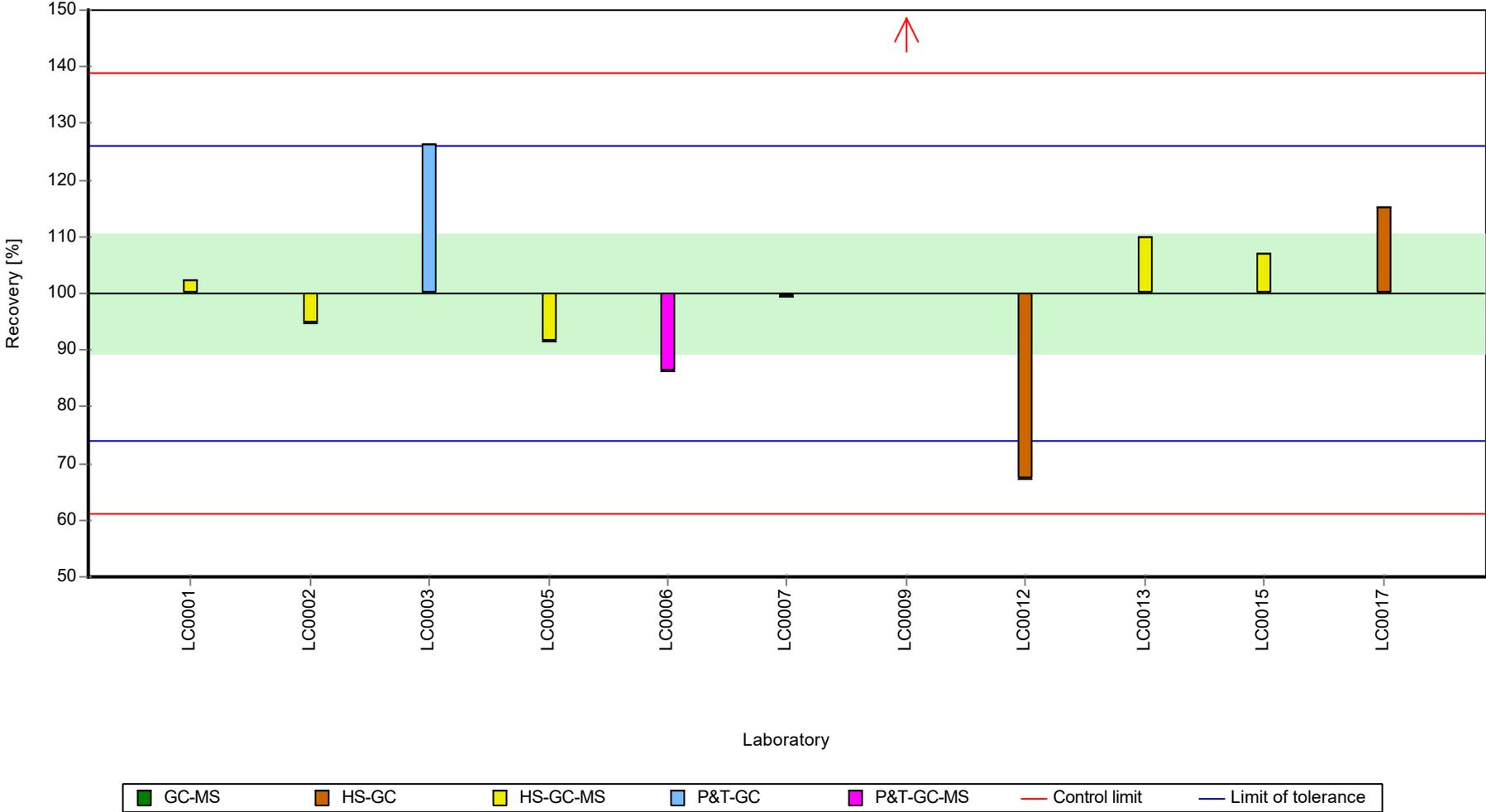
Parameter oriented report BTEX/MTBE - B14

Sample: B14B, Parameter: Methyl-tert-butyl-ether

Graphical presentation of results  
 Results

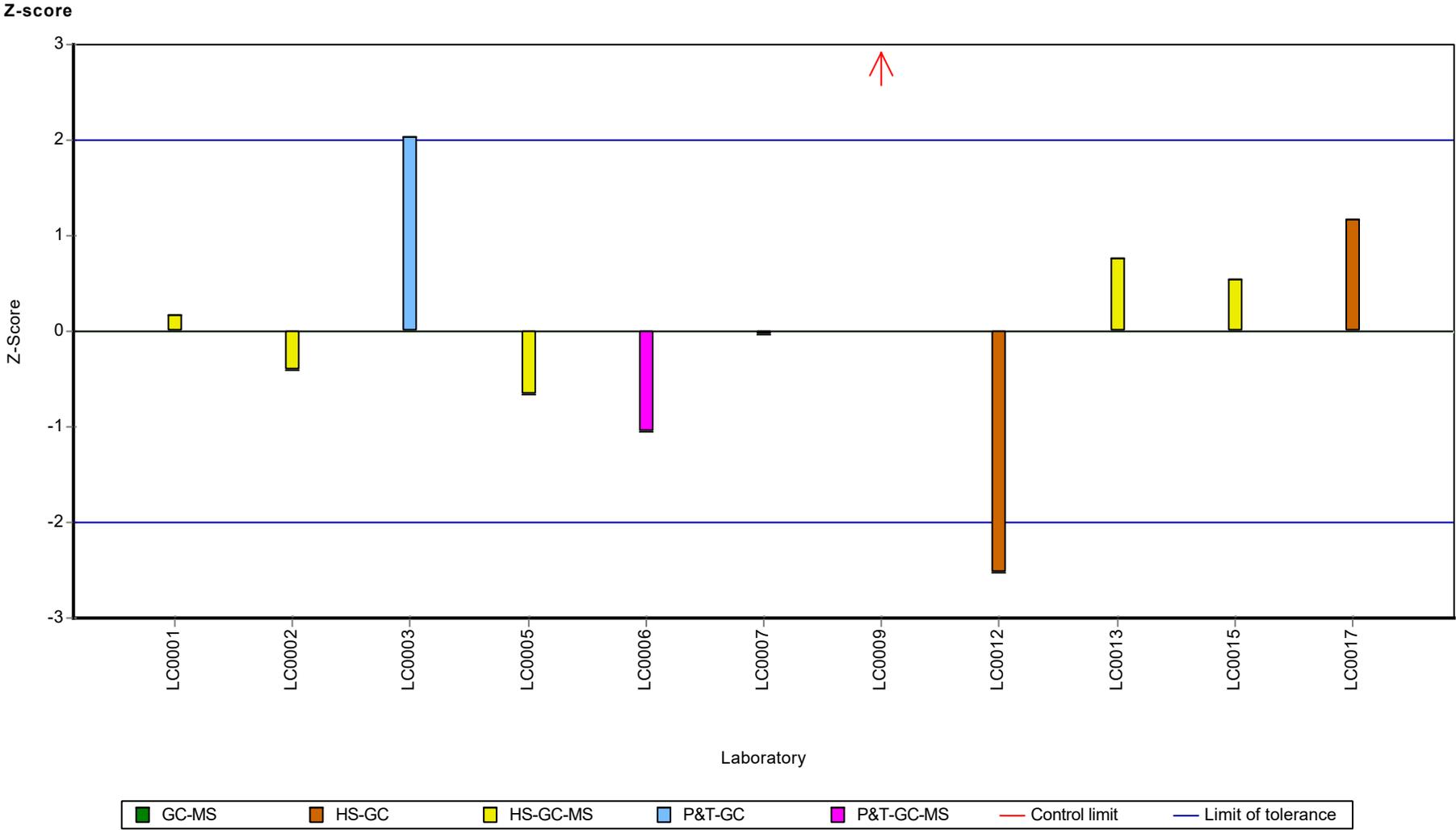


Recovery rate



Parameter oriented report BTEX/MTBE - B14

Sample: B14B, Parameter: Methyl-tert-butyl-ether



Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: o-Xylene

## Parameter oriented report

### B14 A

#### o-Xylene

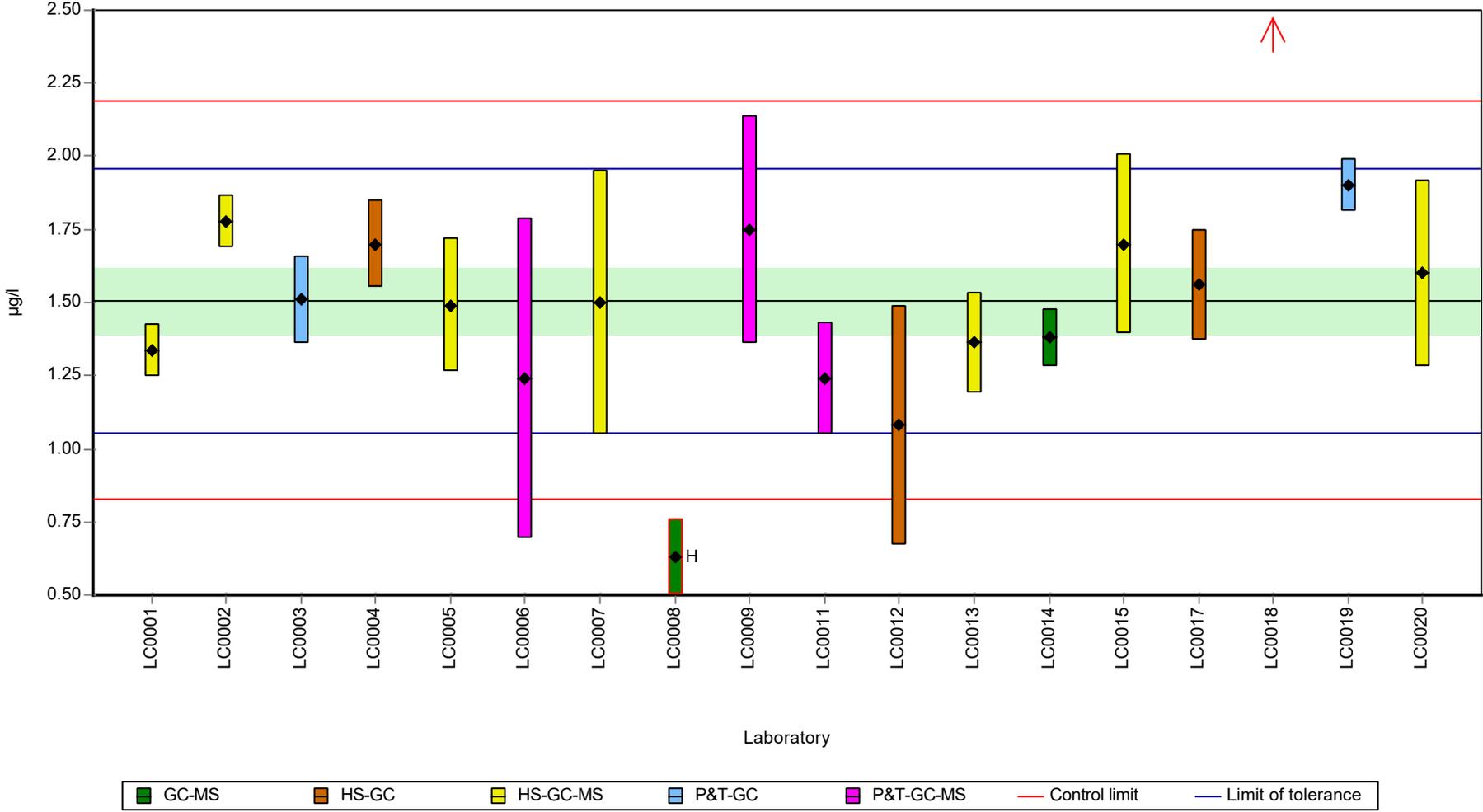
Unit	µg/l
Assigned value ± U (k=2)	1.51 ± 0.113
Criterion	0.226 (15 %)
Minimum - Maximum	1.08 - 1.9
Control test value ± U (k=2)	1.42 ± 0.411

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.3357	0.089	88.6	-0.76	
LC0002	1.779	0.0907	118	1.2	
LC0003	1.51	0.15	100	0.01	
LC0004	1.7	0.15	113	0.85	
LC0005	1.49	0.23	98.8	-0.08	
LC0006	1.24	0.55	82.2	-1.18	
LC0007	1.5	0.45	99.5	-0.04	
LC0008	0.632	0.13	41.9	-3.87	H
LC0009	1.75	0.39	116	1.07	
LC0010	-	-	-	-	
LC0011	1.24	0.19	82.2	-1.18	
LC0012	1.08	0.41	71.6	-1.89	
LC0013	1.362	0.174	90.3	-0.65	
LC0014	1.38	0.1	91.5	-0.57	
LC0015	1.7	0.31	113	0.85	
LC0016	-	-	-	-	
LC0017	1.56	0.19	103	0.23	
LC0018	3.74	0.3	248	9.87	H
LC0019	1.9	0.091	126	1.73	
LC0020	1.6	0.32	106	0.41	

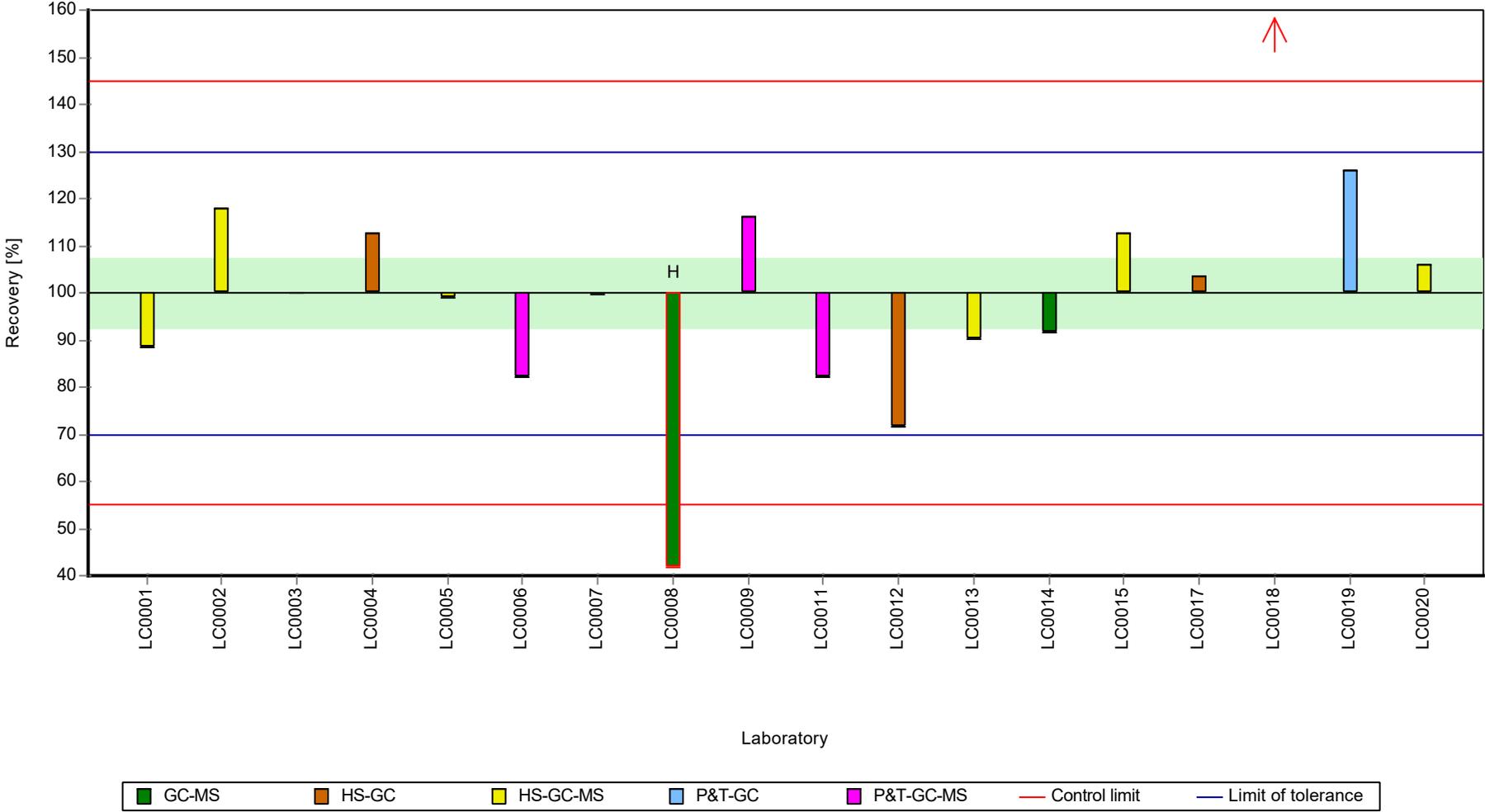
#### Characteristics of parameter

	all results	w without outliers	Unit
Mean ± CI (99%)	1.58 ± 0.434	1.51 ± 0.169	µg/l
Minimum	0.632	1.08	µg/l
Maximum	3.74	1.9	µg/l
Standard deviation	0.614	0.226	µg/l
rel. standard deviation	38.8	15	%
n	18	16	-

Graphical presentation of results  
 Results

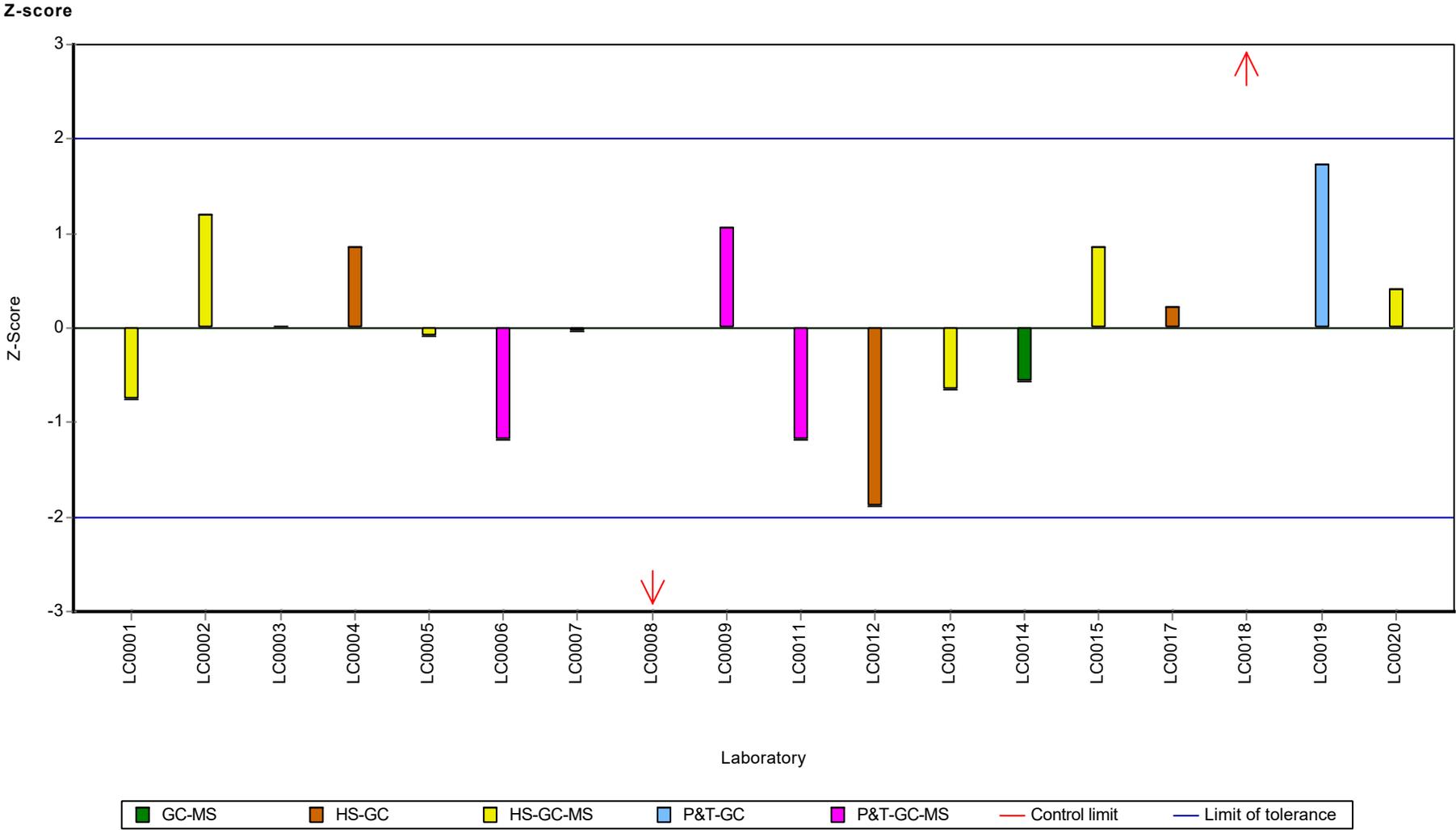


Recovery rate



Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: o-Xylene



Parameter oriented report BTEX/MTBE - B14

Sample: B14B, Parameter: o-Xylene

## Parameter oriented report

### B14 B

#### o-Xylene

Unit	µg/l
Assigned value ± U (k=2)	6.5 ± 0.486
Criterion	0.976 (15 %)
Minimum - Maximum	4.61 - 8.2
Control test value ± U (k=2)	5.64 ± 1.63

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	6.0825	0.4	93.5	-0.43	
LC0002	6.937	0.3538	107	0.44	
LC0003	6.86	0.69	105	0.37	
LC0004	7.02	0.95	108	0.53	
LC0005	6.68	1.03	103	0.18	
LC0006	5.37	2.36	82.6	-1.16	
LC0007	6.3	1.89	96.9	-0.21	
LC0008	4.672	0.93	71.8	-1.88	
LC0009	9.74	2.14	150	3.32	H
LC0010	-	-	-	-	
LC0011	6.5	0.97	99.9	0.00	
LC0012	4.61	1.75	70.9	-1.94	
LC0013	7.327	0.174	113	0.84	
LC0014	6.24	0.46	95.9	-0.27	
LC0015	7.6	1.37	117	1.12	
LC0016	-	-	-	-	
LC0017	8.2	0.9	126	1.74	
LC0018	7.02	0.6	108	0.53	
LC0019	-	-	-	-	
LC0020	6.64	1.33	102	0.14	

#### Characteristics of parameter

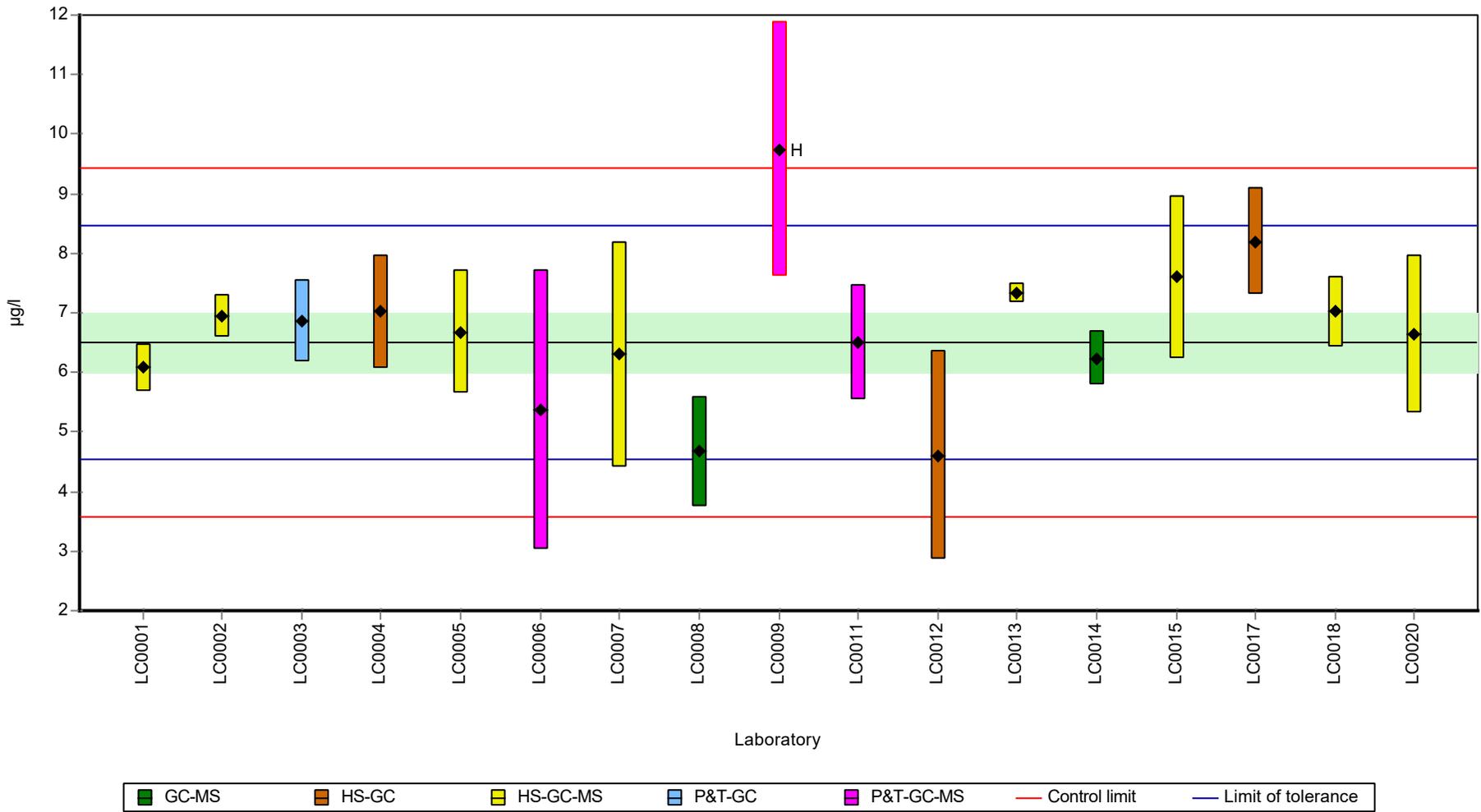
	all results	w ithout outliers	Unit
Mean ± CI (99%)	6.69 ± 0.892	6.5 ± 0.729	µg/l
Minimum	4.61	4.61	µg/l
Maximum	9.74	8.2	µg/l
Standard deviation	1.23	0.972	µg/l
rel. standard deviation	18.3	14.9	%
n	17	16	-

Parameter oriented report BTEX/MTBE - B14

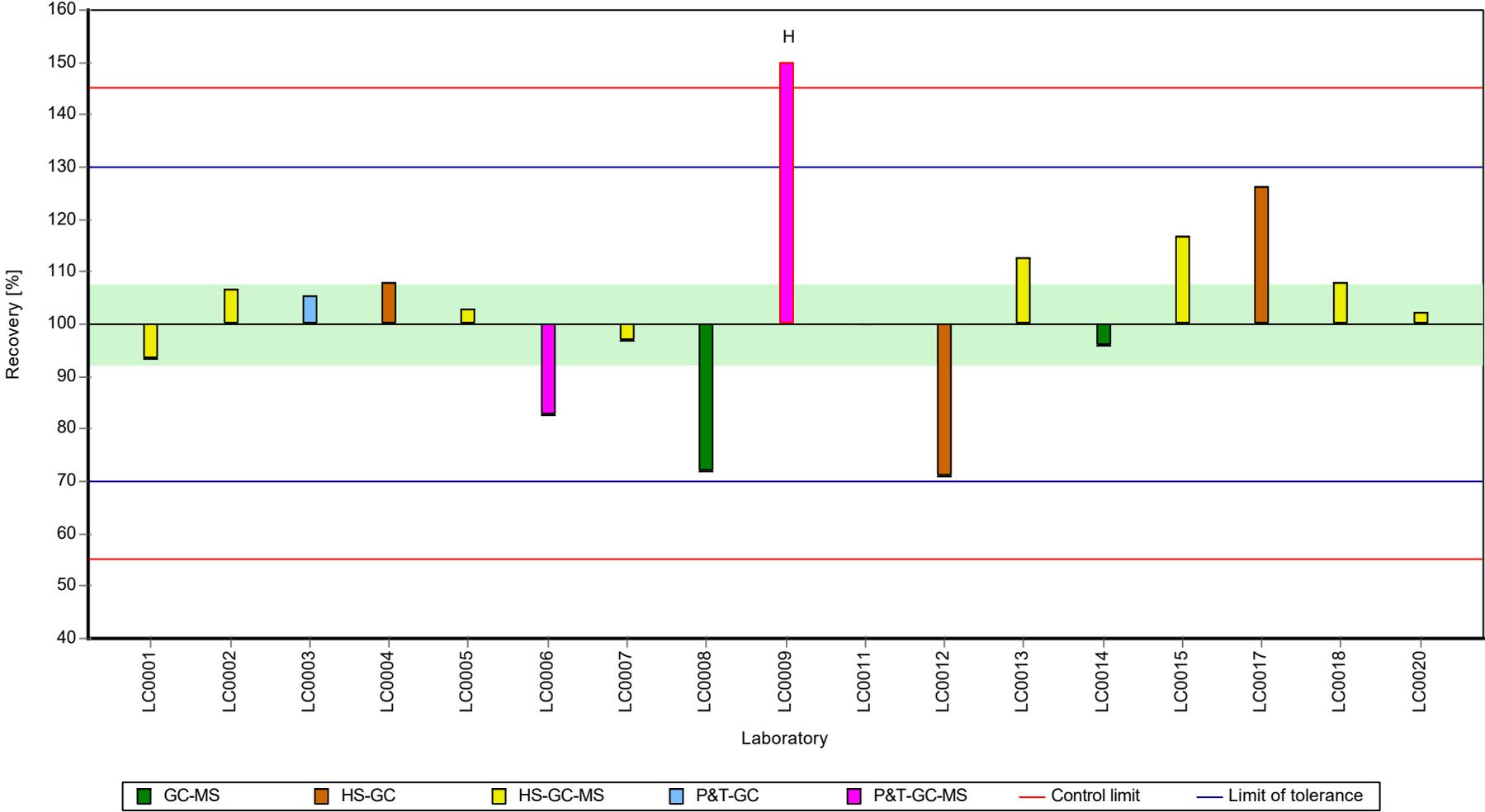
Sample: B14B, Parameter: o-Xylene

Graphical presentation of results

Results

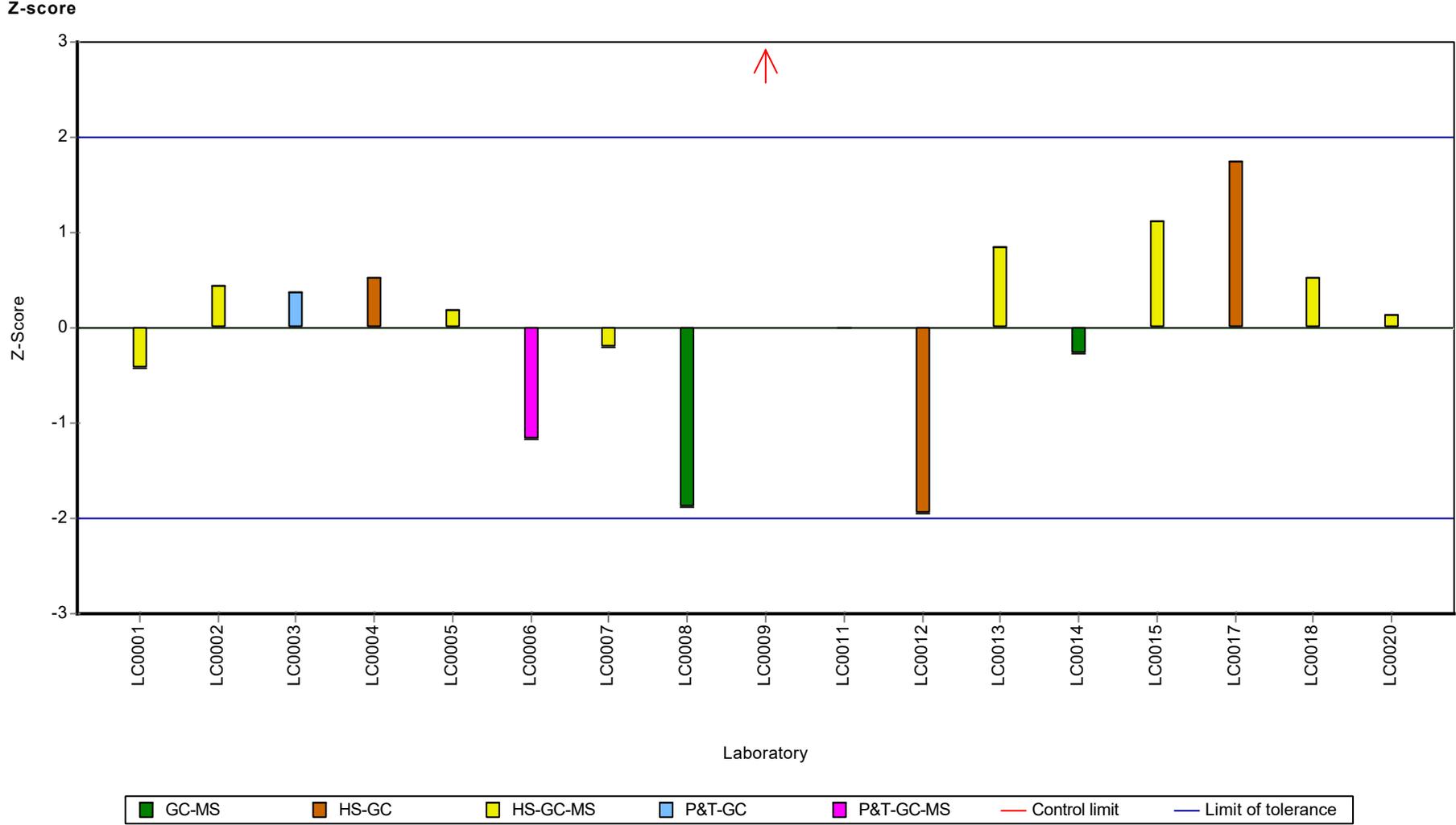


Recovery rate



Parameter oriented report BTEX/MTBE - B14

Sample: B14B, Parameter: o-Xylene



Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: Sum of m-Xylene and p-Xylene

## Parameter oriented report

### B14 A

#### Sum of m-Xylene and p-Xylene

Unit	µg/l
Assigned value ± U (k=2)	2.71 ± 0.264
Criterion	0.542 (20 %)
Minimum - Maximum	1.54 - 3.49
Control test value ± U (k=2)	2.83 ± 0.821

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2.3839	0.11	87.9	-0.6	
LC0002	1.747	0.0952	64.5	-1.78	
LC0003	2.96	0.35	109	0.46	
LC0004	3.09	0.24	114	0.7	
LC0005	2.73	0.4	101	0.04	
LC0006	2.63	1.16	97	-0.15	
LC0007	3.23	0.969	119	0.96	
LC0008	0.94	0.19	34.7	-3.27	H
LC0009	3.49	0.77	129	1.44	
LC0010	-	-	-	-	
LC0011	2.09	0.31	77.1	-1.14	
LC0012	2.73	1.04	101	0.04	
LC0013	2.384	0.1099	88	-0.6	
LC0014	2.69	0.16	99.2	-0.04	
LC0015	3	0.54	111	0.53	
LC0016	2.965	1.038	109	0.47	
LC0017	2.99	0.35	110	0.52	
LC0018	< 0.5 (LOQ)	-	-	-	FN
LC0019	3.43	0.068	127	1.33	
LC0020	1.54	0.31	56.8	-2.16	

#### Characteristics of parameter

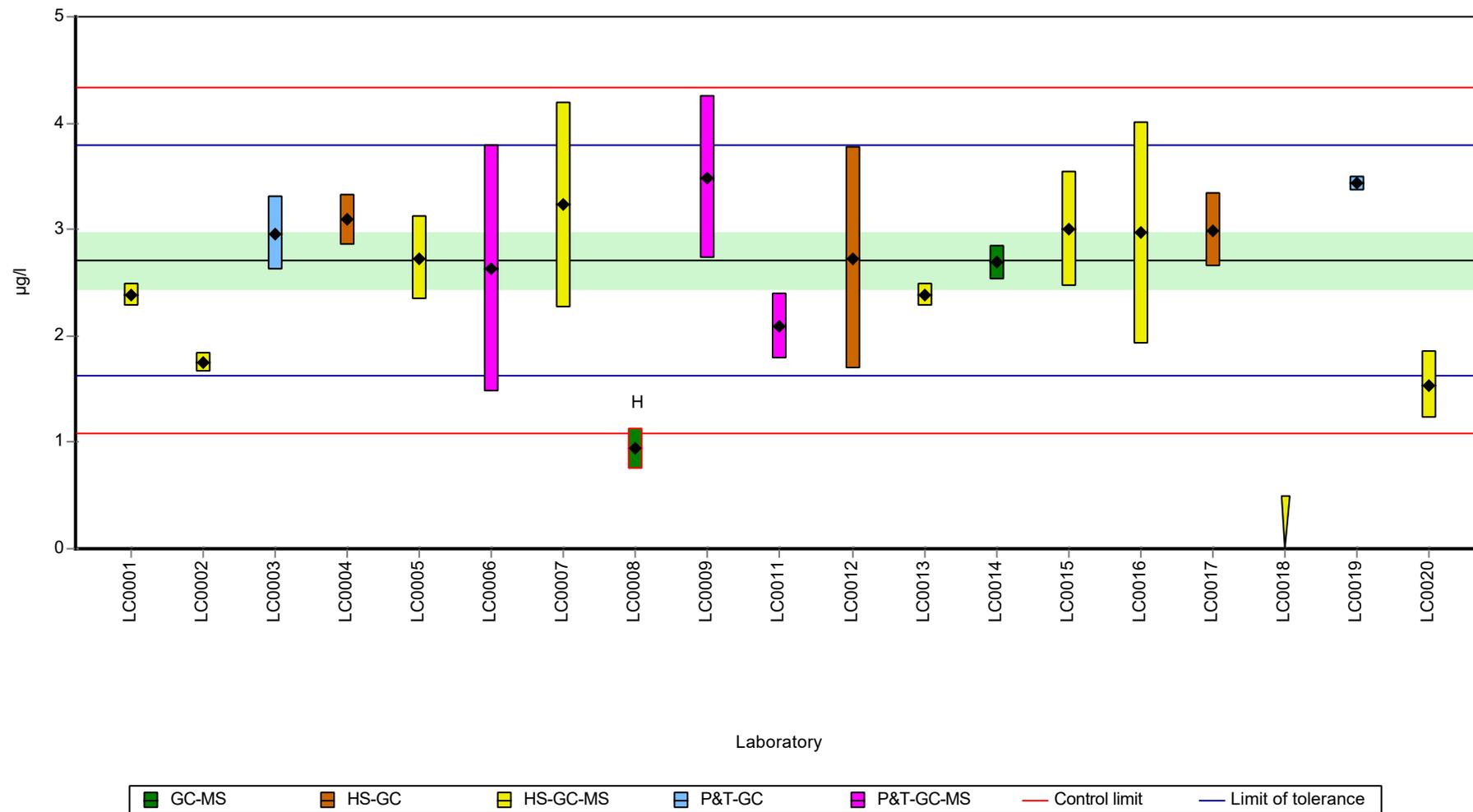
	all results	w ithout outliers	Unit
Mean ± CI (99%)	2.61 ± 0.476	2.71 ± 0.396	µg/l
Minimum	0.94	1.54	µg/l
Maximum	3.49	3.49	µg/l
Standard deviation	0.673	0.544	µg/l
rel. standard deviation	25.8	20.1	%
n	18	17	-

Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: Sum of m-Xylene and p-Xylene

Graphical presentation of results

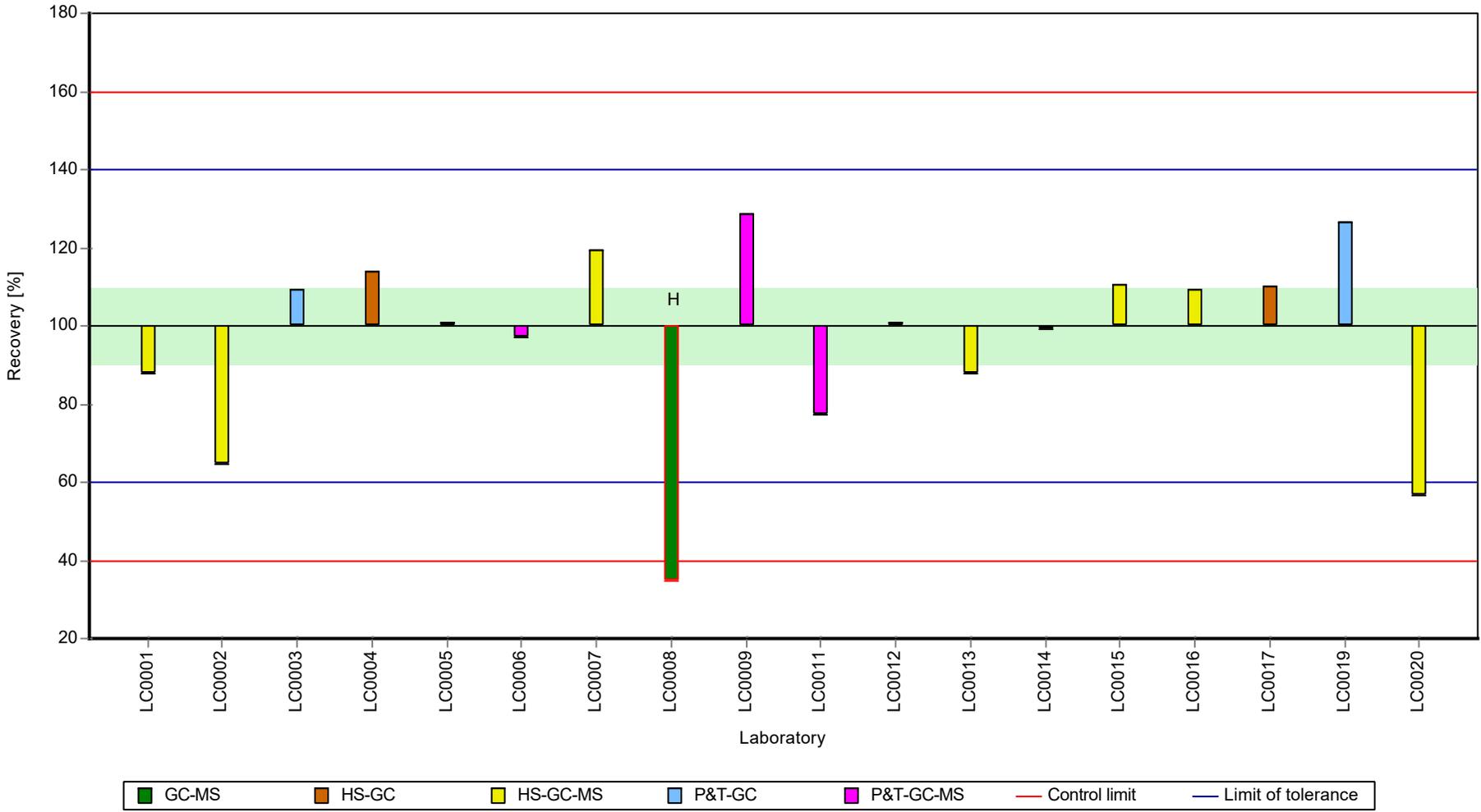
Results



Parameter oriented report BTEX/MTBE - B14

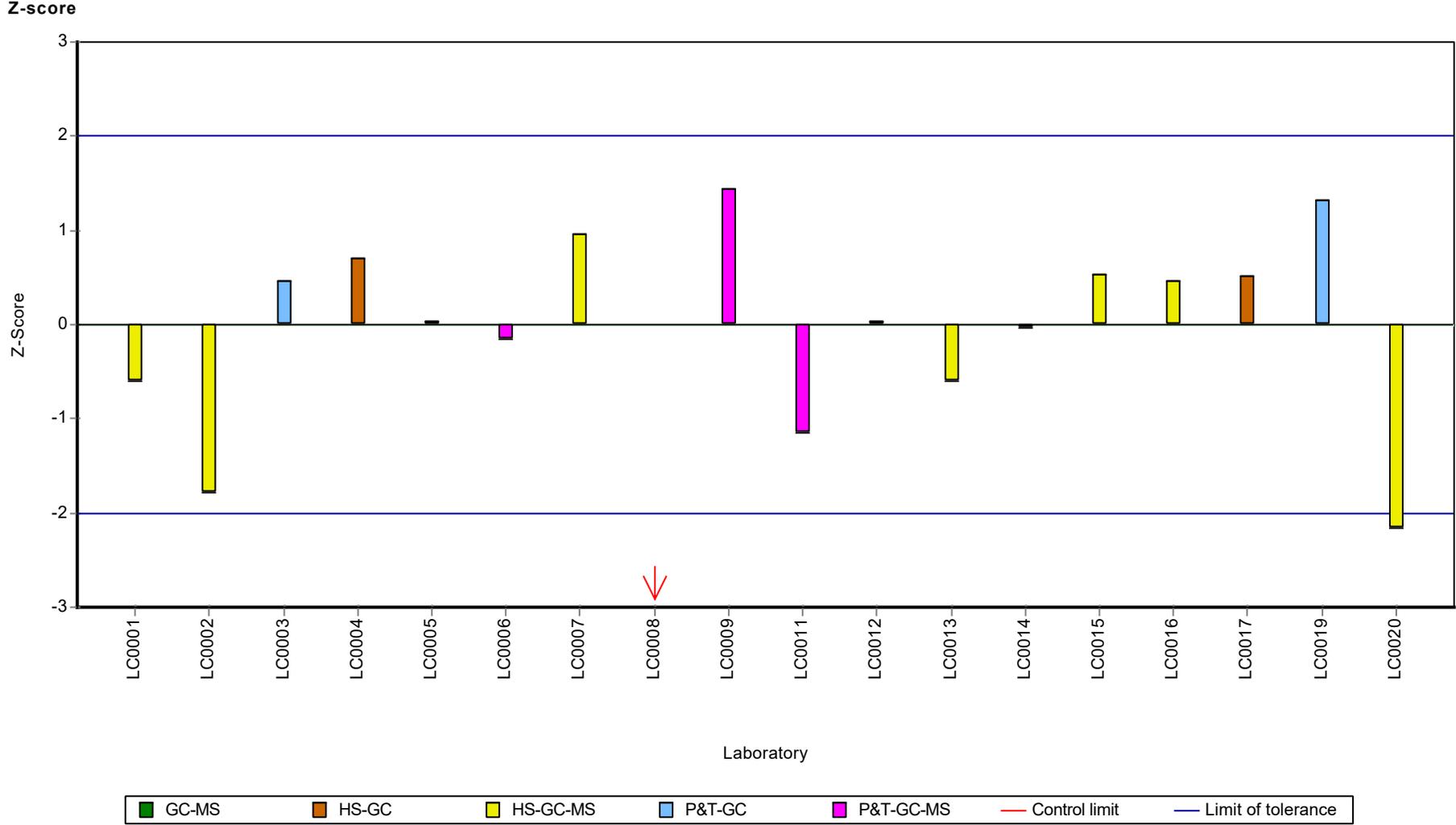
Sample: B14A, Parameter: Sum of m-Xylene and p-Xylene

Recovery rate



Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: Sum of m-Xylene and p-Xylene



Parameter oriented report BTEX/MTBE - B14

Sample: B14B, Parameter: Sum of m-Xylene and p-Xylene

## Parameter oriented report

### B14 B

#### Sum of m-Xylene and p-Xylene

Unit	µg/l
Assigned value ± U (k=2)	9.01 ± 0.786
Criterion	1.8 (20 %)
Minimum - Maximum	5.24 - 11.4
Control test value ± U (k=2)	8.05 ± 2.34

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	8.3771	0.4	93	-0.35	
LC0002	5.235	0.2853	58.1	-2.1	
LC0003	9.82	1.2	109	0.45	
LC0004	8.93	1.3	99.1	-0.05	
LC0005	8.57	1.27	95.1	-0.25	
LC0006	8.26	3.63	91.7	-0.42	
LC0007	9.37	2.81	104	0.2	
LC0008	6.742	1.35	74.8	-1.26	
LC0009	14	3.1	155	2.77	H
LC0010	-	-	-	-	
LC0011	11.2	1.7	124	1.21	
LC0012	8.04	3.05	89.2	-0.54	
LC0013	10.594	0.1099	118	0.88	
LC0014	9.07	0.55	101	0.03	
LC0015	10.3	1.85	114	0.71	
LC0016	9.331	3.266	104	0.18	
LC0017	11.4	1.2	126	1.32	
LC0018	8.96	0.6	99.4	-0.03	
LC0019	-	-	-	-	
LC0020	4.62	0.92	51.3	-2.44	H

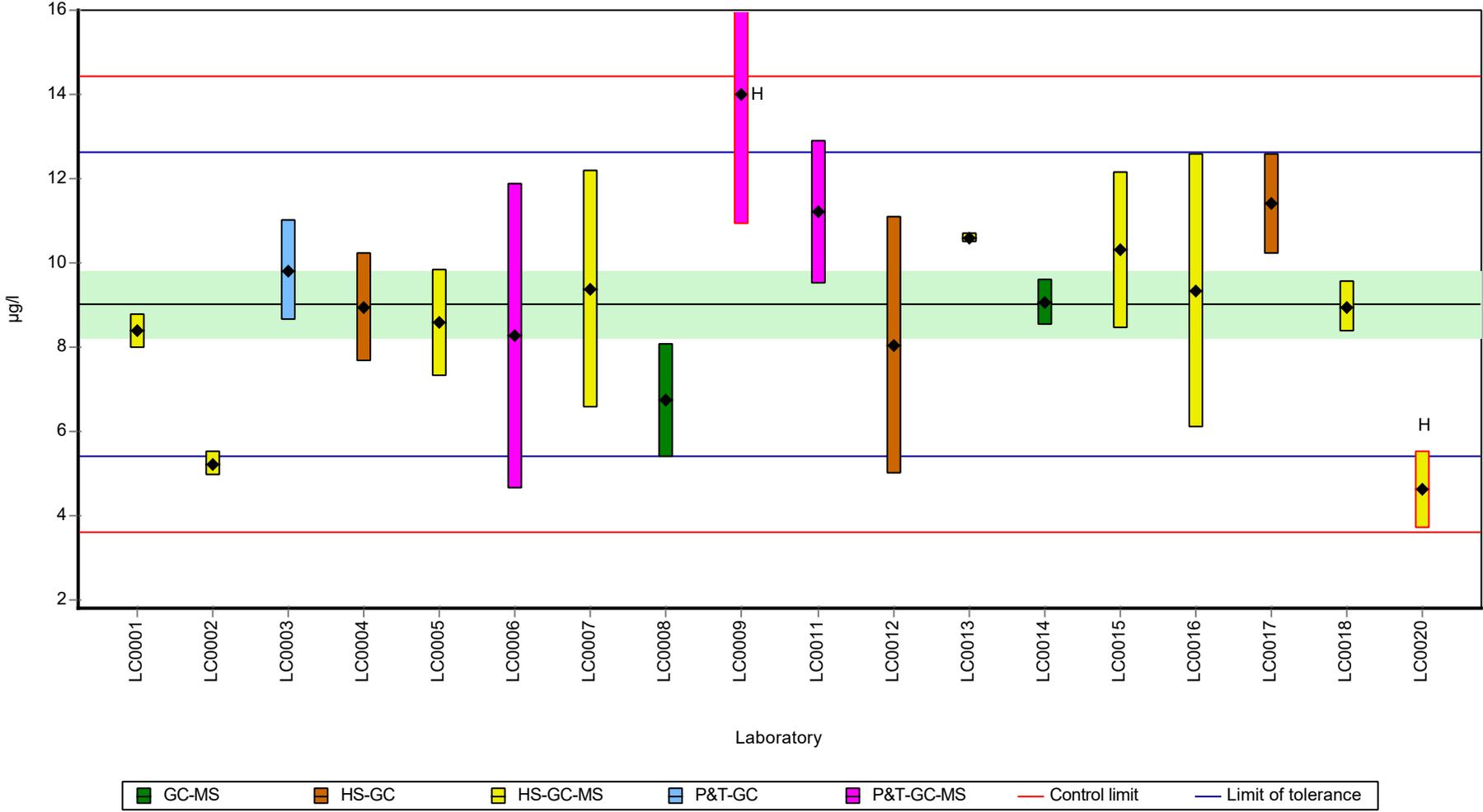
#### Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	9.05 ± 1.55	9.01 ± 1.18	µg/l
Minimum	4.62	5.24	µg/l
Maximum	14	11.4	µg/l
Standard deviation	2.19	1.57	µg/l
rel. standard deviation	24.2	17.4	%
n	18	16	-

Parameter oriented report BTEX/MTBE - B14

Sample: B14B, Parameter: Sum of m-Xylene and p-Xylene

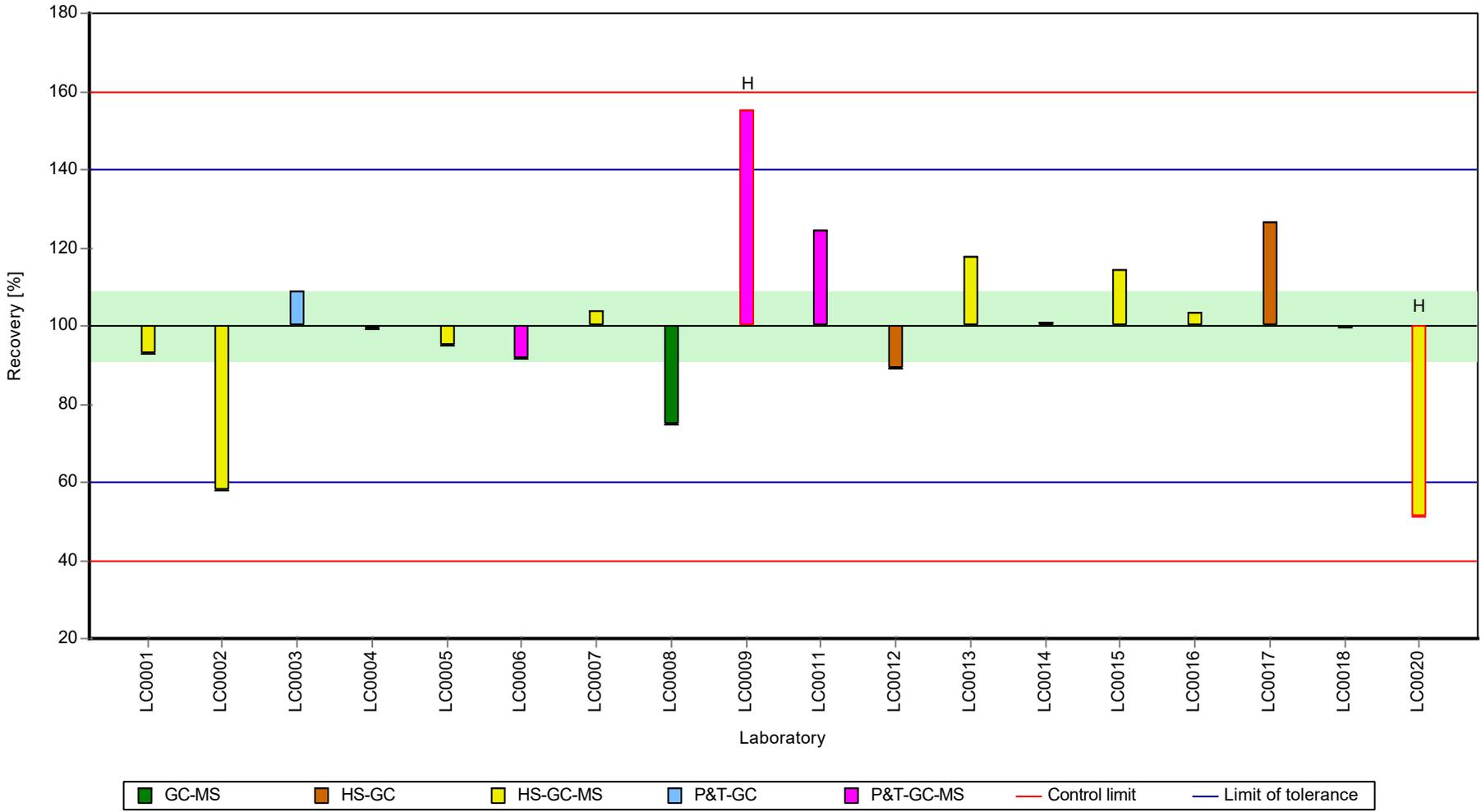
Graphical presentation of results  
 Results



Parameter oriented report BTEX/MTBE - B14

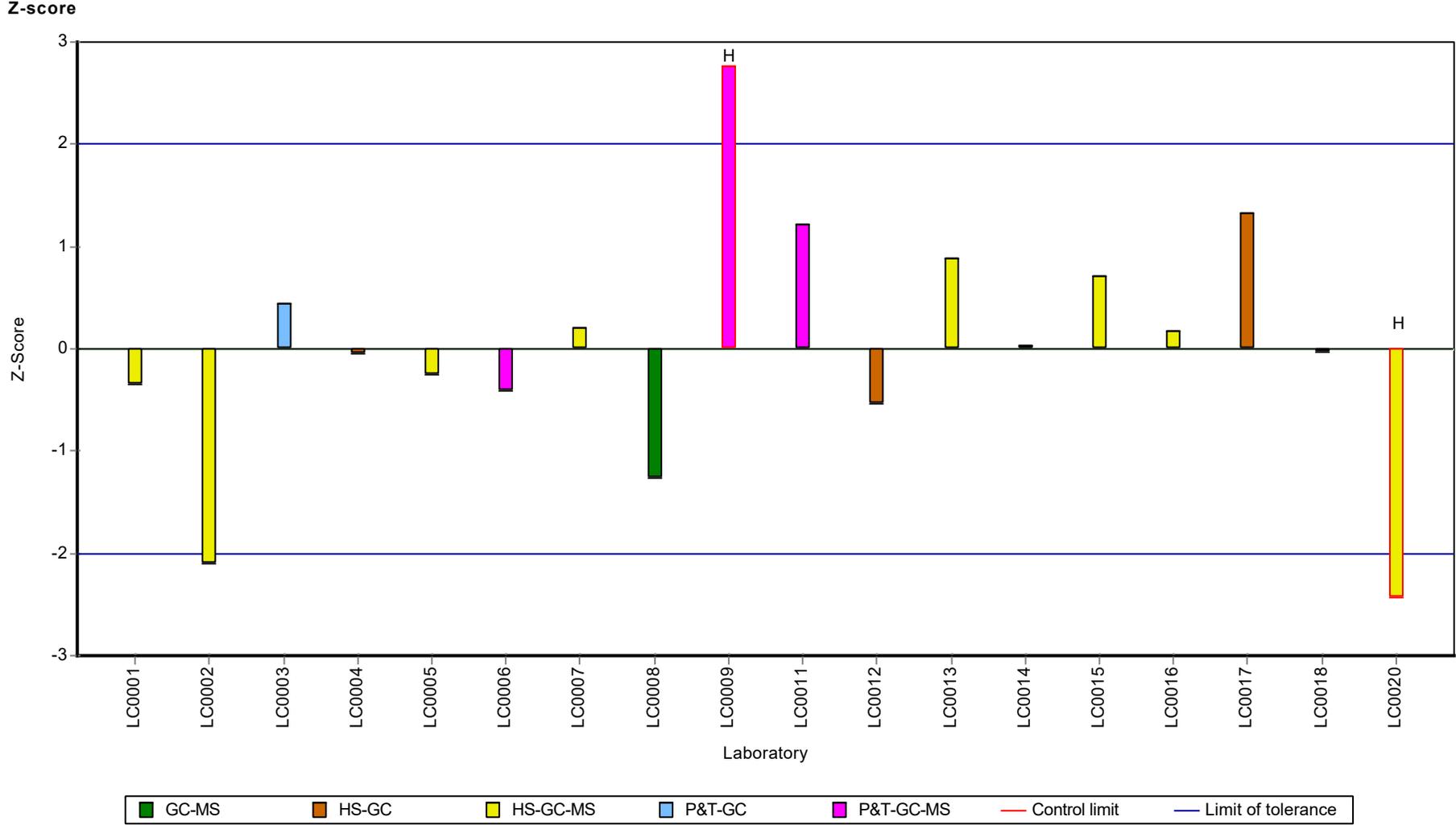
Sample: B14B, Parameter: Sum of m-Xylene and p-Xylene

Recovery rate



Parameter oriented report BTEX/MTBE - B14

Sample: B14B, Parameter: Sum of m-Xylene and p-Xylene



Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: Toluene

## Parameter oriented report

### B14 A

#### Toluene

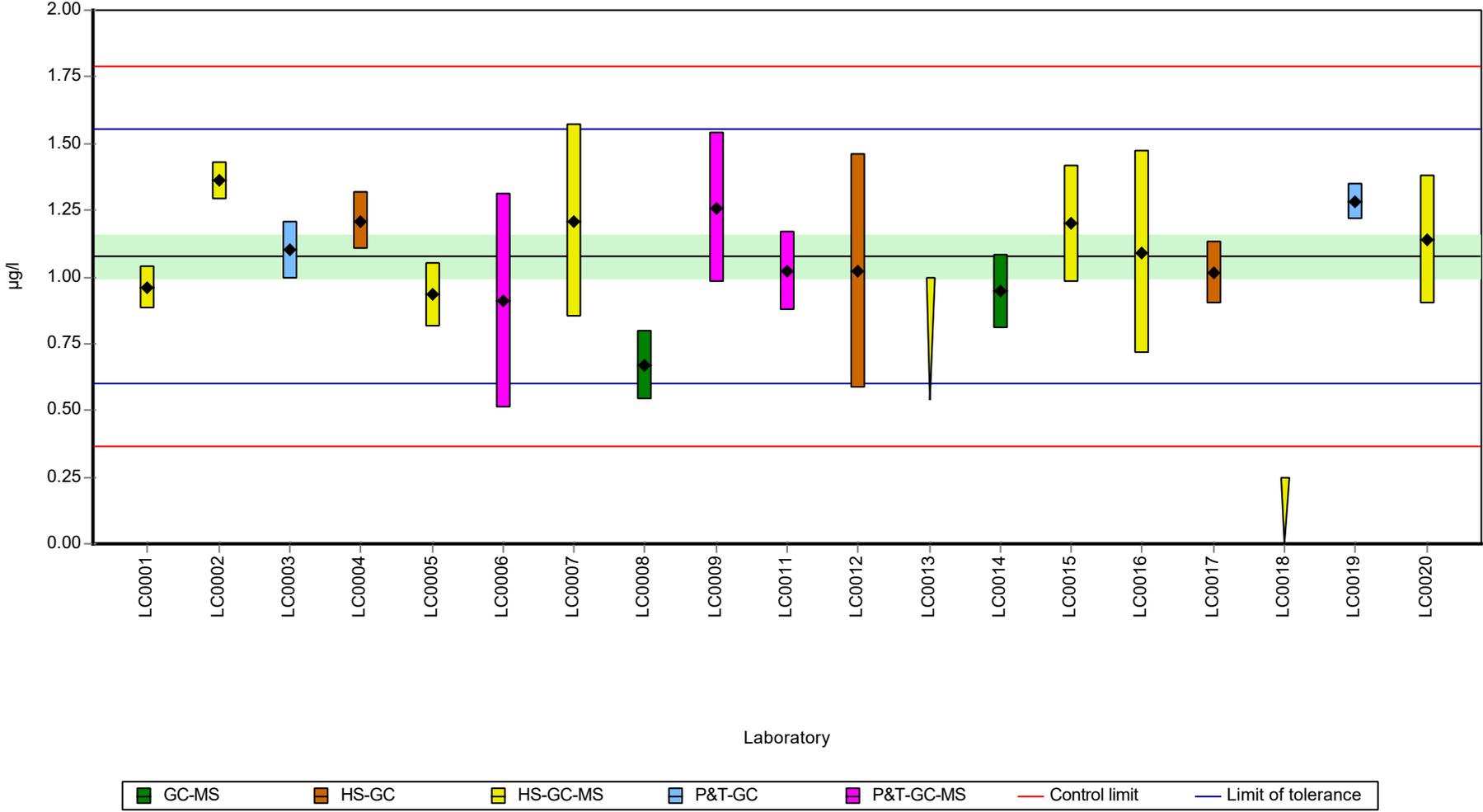
Unit	µg/l
Assigned value ± U (k=2)	1.08 ± 0.0828
Criterion	0.237 (22 %)
Minimum - Maximum	0.67 - 1.36
Control test value ± U (k=2)	1.07 ± 0.279

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.959	0.08	89	-0.5	
LC0002	1.361	0.0701	126	1.19	
LC0003	1.1	0.11	102	0.09	
LC0004	1.21	0.11	112	0.56	
LC0005	0.934	0.12	86.6	-0.61	
LC0006	0.91	0.4	84.4	-0.71	
LC0007	1.21	0.363	112	0.56	
LC0008	0.67	0.13	62.1	-1.72	
LC0009	1.26	0.28	117	0.77	
LC0010	-	-	-	-	
LC0011	1.02	0.15	94.6	-0.24	
LC0012	1.02	0.44	94.6	-0.24	
LC0013	< 1 (LOQ)	-	-	-	
LC0014	0.945	0.14	87.7	-0.56	
LC0015	1.2	0.22	111	0.51	
LC0016	1.092	0.382	101	0.06	
LC0017	1.016	0.12	94.2	-0.26	
LC0018	< 0.25 (LOQ)	-	-	-	FN
LC0019	1.28	0.067	119	0.85	
LC0020	1.14	0.24	106	0.26	

#### Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	1.08 ± 0.124	1.08 ± 0.124	µg/l
Minimum	0.67	0.67	µg/l
Maximum	1.36	1.36	µg/l
Standard deviation	0.171	0.171	µg/l
rel. standard deviation	15.8	15.8	%
n	17	17	-

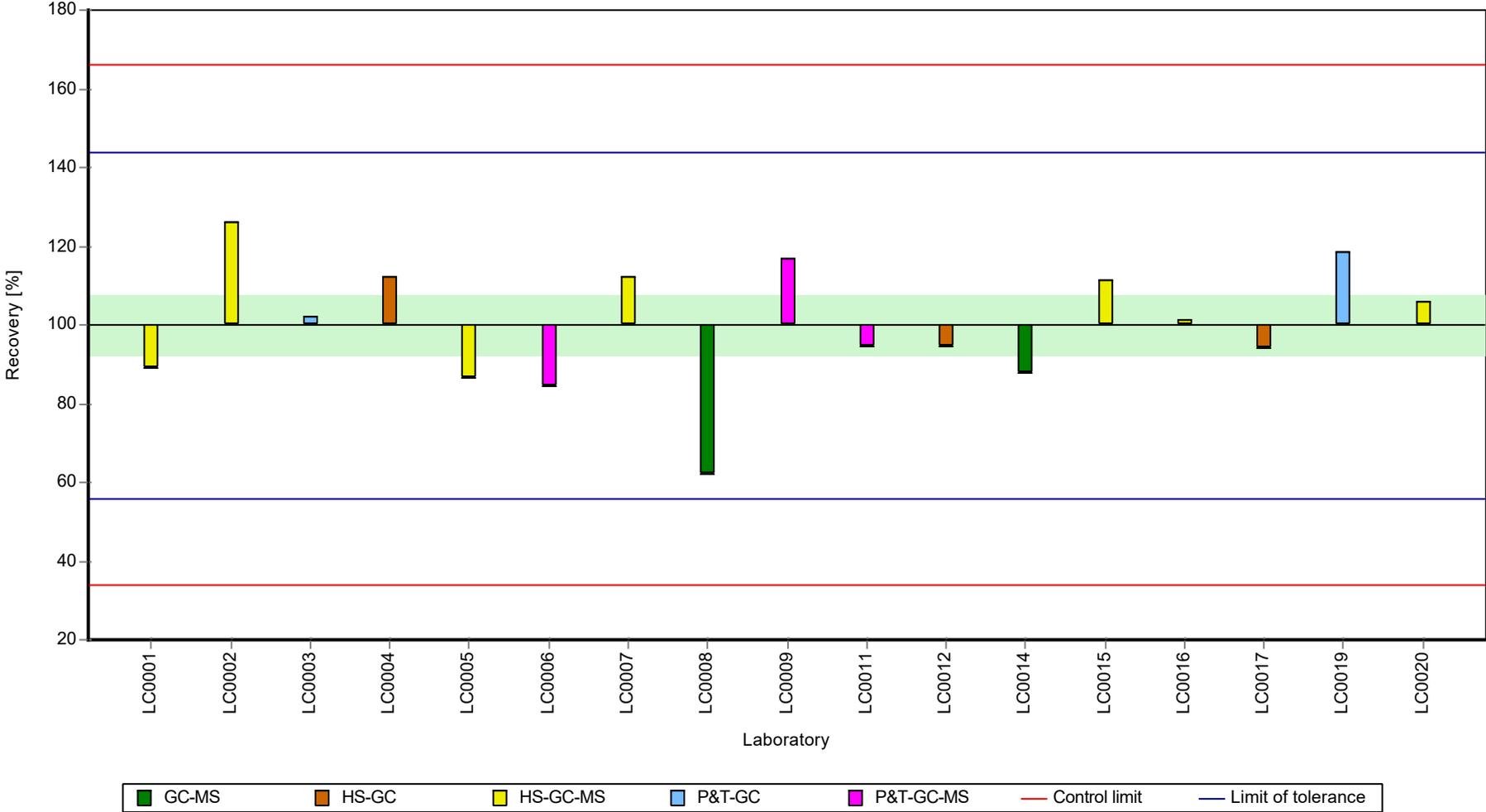
Graphical presentation of results  
 Results



Parameter oriented report BTEX/MTBE - B14

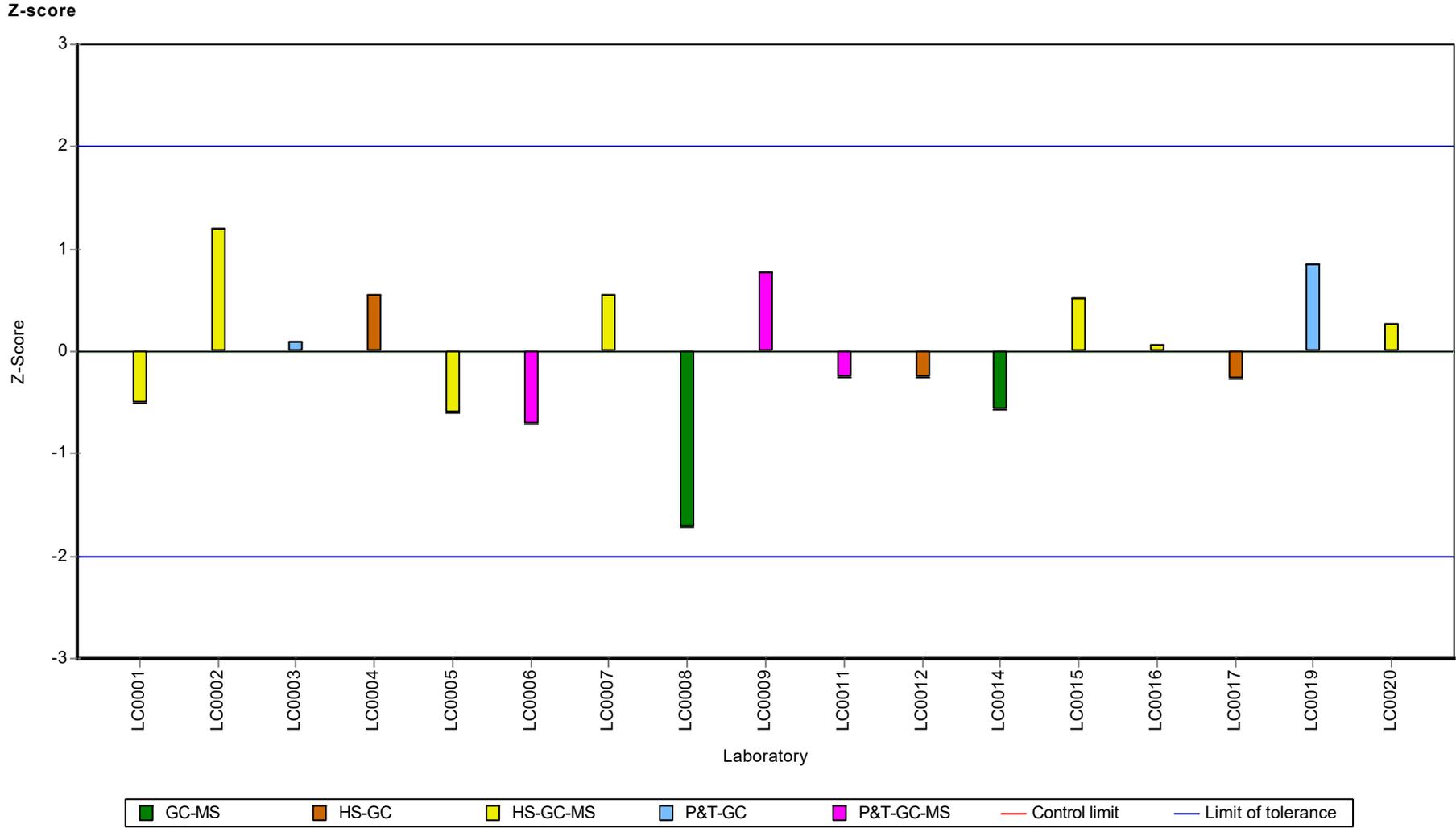
Sample: B14A, Parameter: Toluene

Recovery rate



Parameter oriented report BTEX/MTBE - B14

Sample: B14A, Parameter: Toluene



Parameter oriented report BTEX/MTBE - B14

Sample: B14B, Parameter: Toluene

## Parameter oriented report

### B14 B

#### Toluene

Unit	µg/l
Assigned value ± U (k=2)	6.69 ± 0.56
Criterion	1.47 (22 %)
Minimum - Maximum	5.13 - 9.79
Control test value ± U (k=2)	6.39 ± 1.66

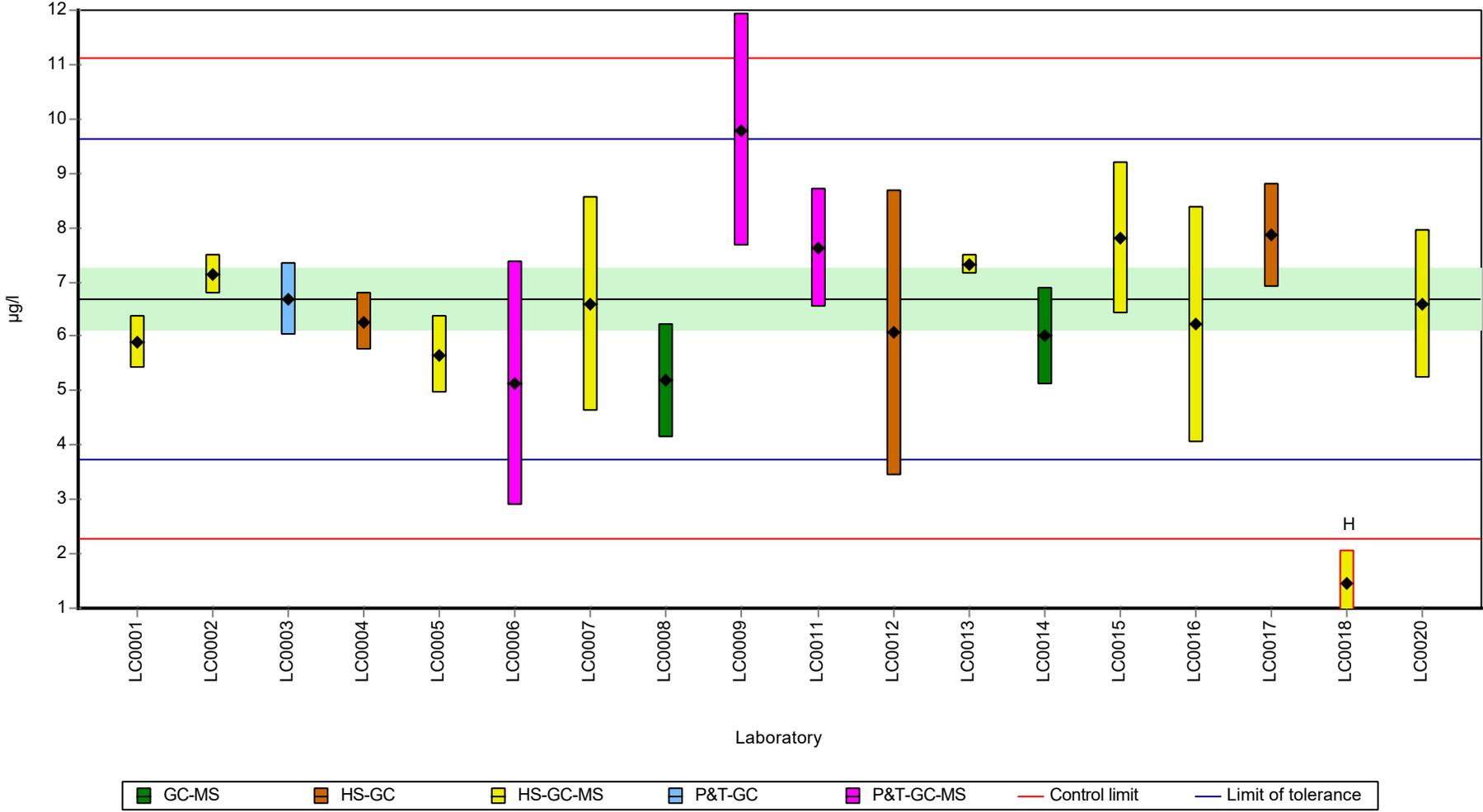
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	5.9025	0.49	88.2	-0.54	
LC0002	7.14	0.3677	107	0.3	
LC0003	6.69	0.67	99.9	0.00	
LC0004	6.26	0.53	93.5	-0.29	
LC0005	5.66	0.72	84.6	-0.7	
LC0006	5.13	2.26	76.6	-1.06	
LC0007	6.59	1.98	98.4	-0.07	
LC0008	5.184	1.04	77.4	-1.03	
LC0009	9.79	2.15	146	2.1	
LC0010	-	-	-	-	
LC0011	7.62	1.1	114	0.63	
LC0012	6.06	2.62	90.5	-0.43	
LC0013	7.312	0.1862	109	0.42	
LC0014	6.01	0.9	89.8	-0.46	
LC0015	7.8	1.4	117	0.75	
LC0016	6.212	2.174	92.8	-0.33	
LC0017	7.86	0.95	117	0.79	
LC0018	1.47	0.6	22	-3.55	H
LC0019	-	-	-	-	
LC0020	6.58	1.37	98.3	-0.08	

#### Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	6.4 ± 1.18	6.69 ± 0.84	µg/l
Minimum	1.47	5.13	µg/l
Maximum	9.79	9.79	µg/l
Standard deviation	1.66	1.15	µg/l
rel. standard deviation	26	17.3	%
n	18	17	-

Graphical presentation of results

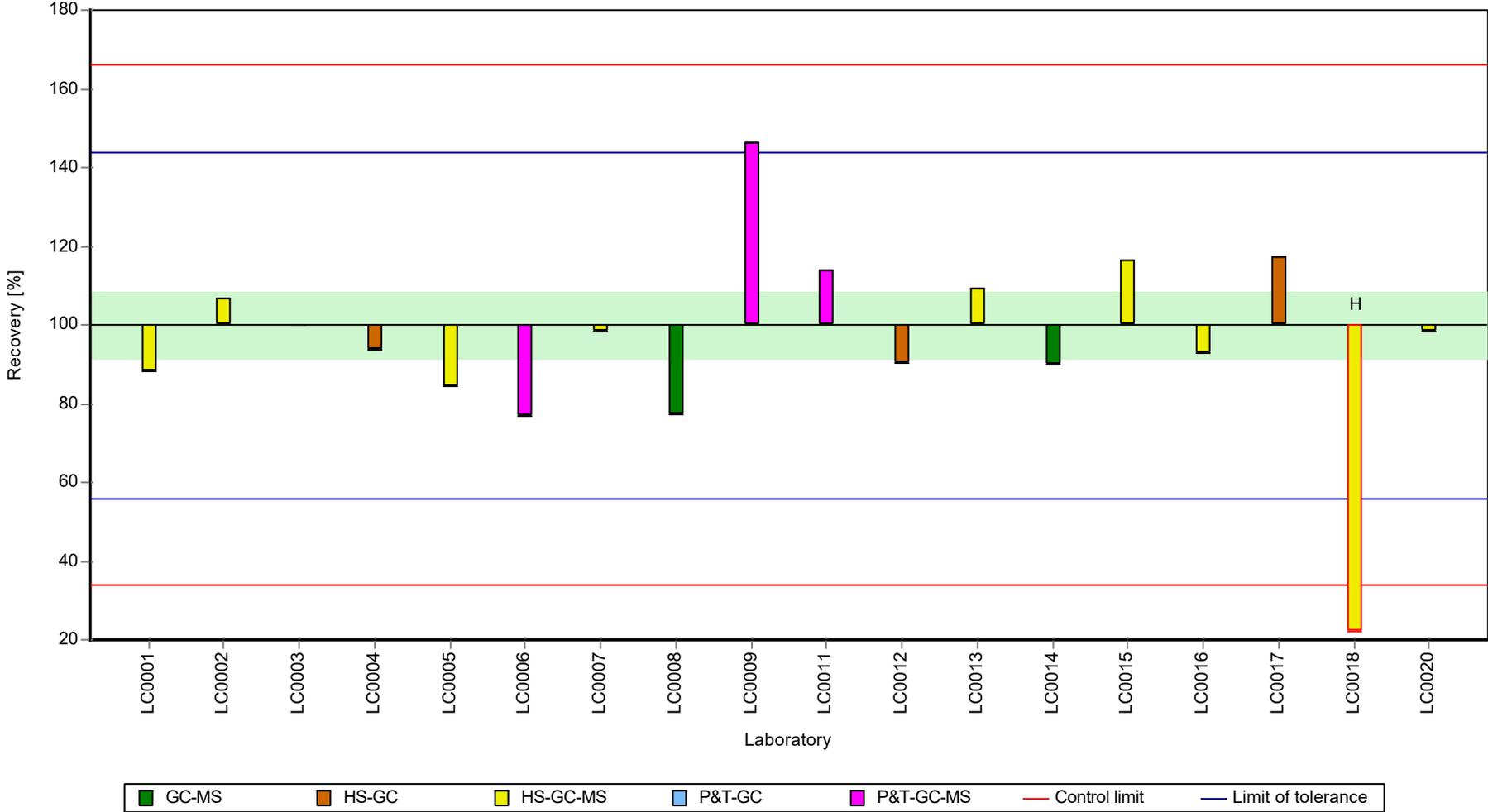
Results



Parameter oriented report BTEX/MTBE - B14

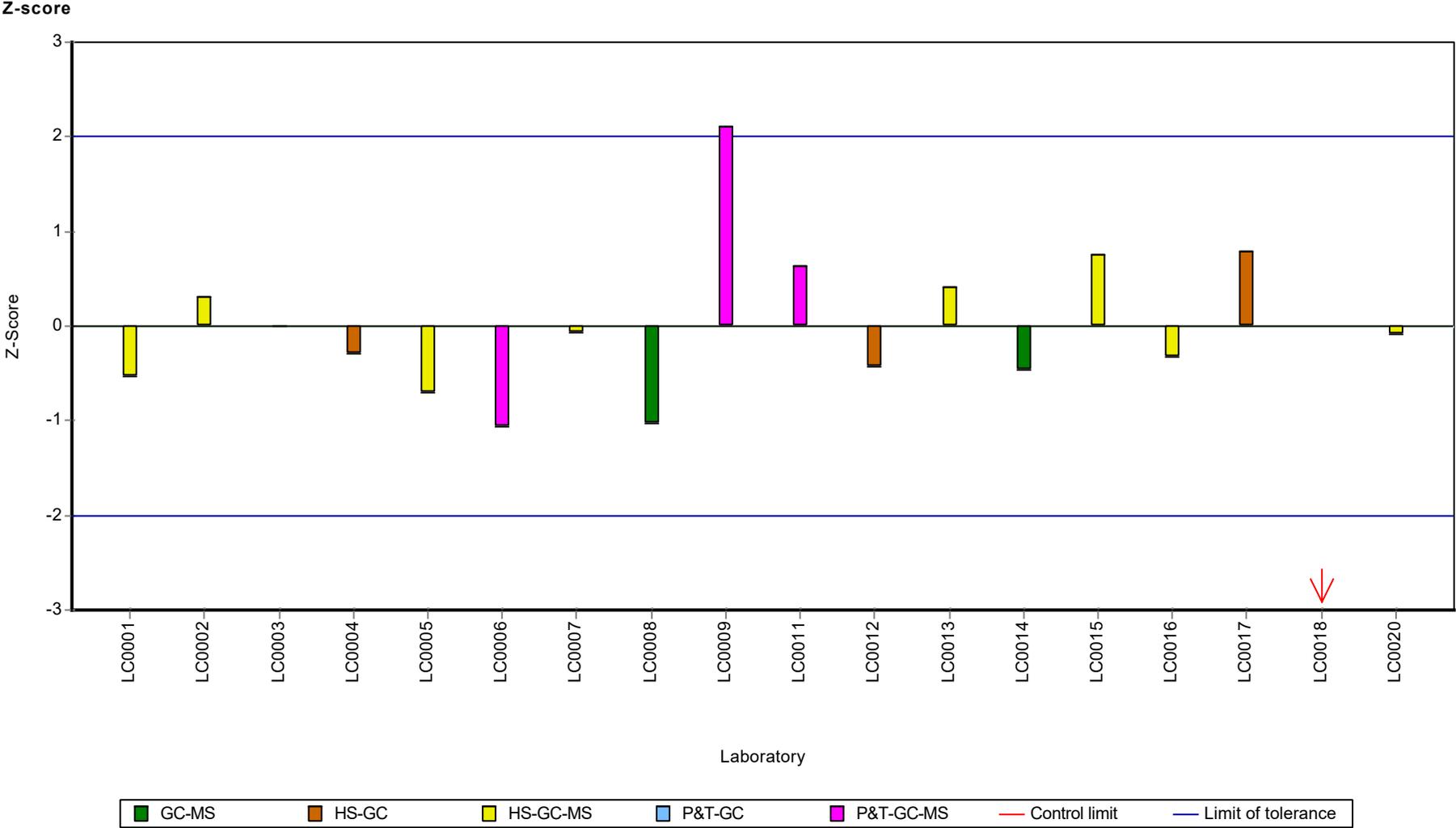
Sample: B14B, Parameter: Toluene

Recovery rate



Parameter oriented report BTEX/MTBE - B14

Sample: B14B, Parameter: Toluene



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

Die Labororientierte Auswertung ist nach dem Laborcode sortiert.

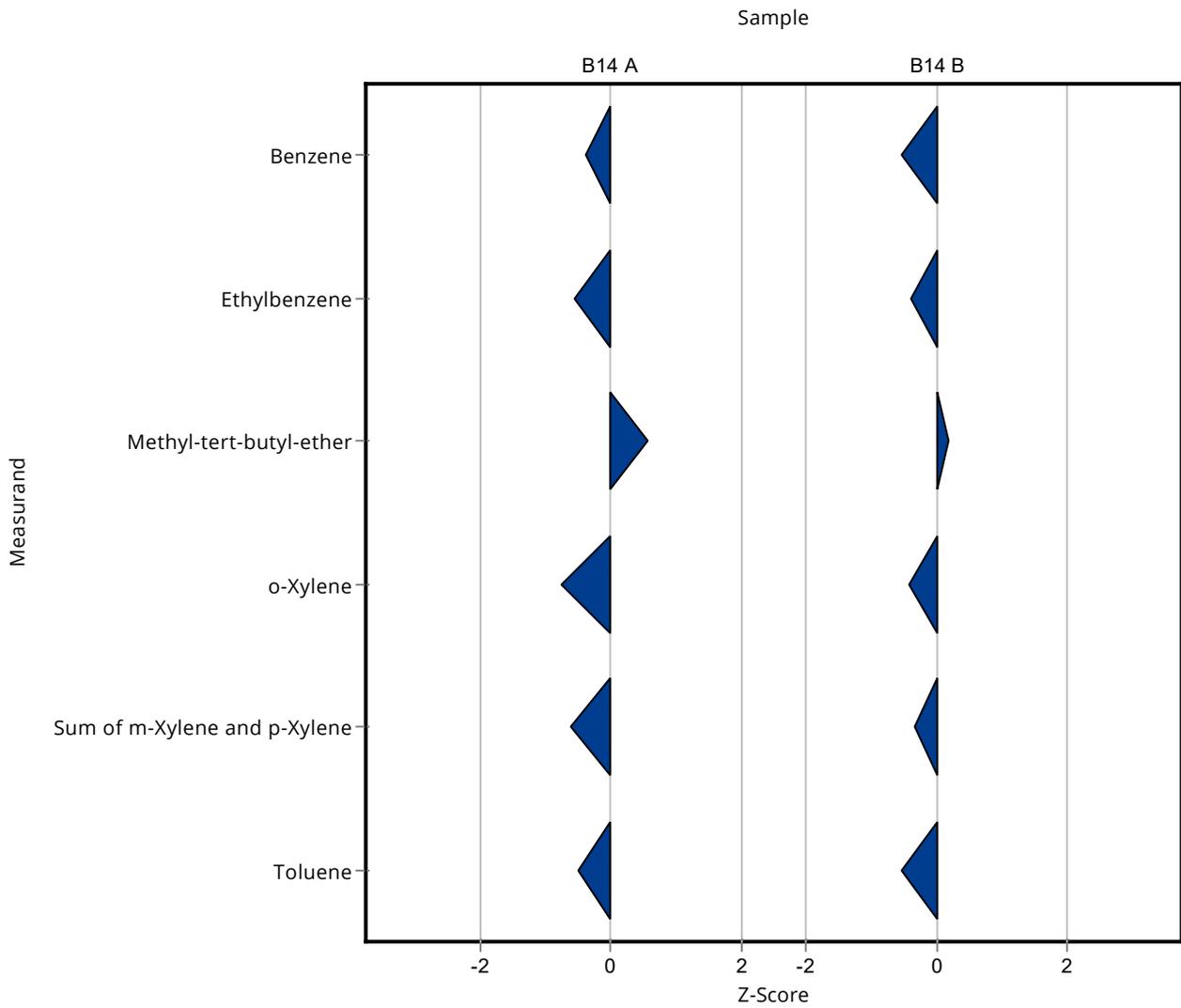
The laboratory oriented report is sorted by laboratory code.

Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.0964 ± 0.056	0.187	93.7	-0.39
Ethylbenzene	µg/l	1.44 ± 0.102	1.2756 ± 0.061	0.288	88.7	-0.57
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.6792 ± 0.16	0.247	109	0.56
o-Xylene	µg/l	1.51 ± 0.113	1.3357 ± 0.089	0.226	88.6	-0.76
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.3839 ± 0.11	0.542	87.9	-0.60
Toluene	µg/l	1.08 ± 0.0828	0.959 ± 0.08	0.237	89	-0.50

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	6.1485 ± 0.31	1.08	91.4	-0.54
Ethylbenzene	µg/l	6.27 ± 0.421	5.7595 ± 0.27	1.25	91.8	-0.41
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	6.4942 ± 0.64	0.826	102	0.17
o-Xylene	µg/l	6.5 ± 0.486	6.0825 ± 0.4	0.976	93.5	-0.43
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	8.3771 ± 0.4	1.8	93	-0.35
Toluene	µg/l	6.69 ± 0.56	5.9025 ± 0.49	1.47	88.2	-0.54

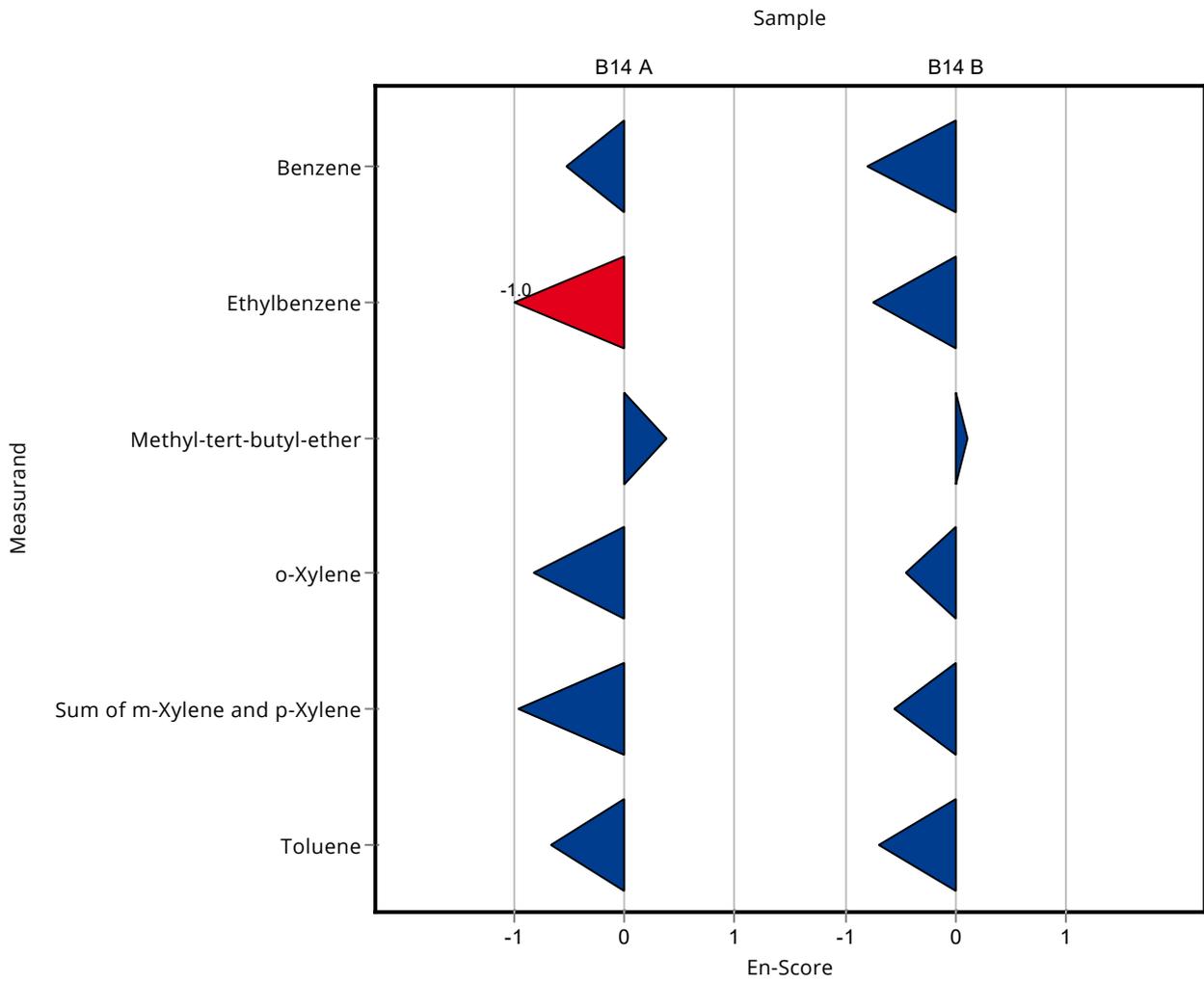


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.0964 ± 0.056	0.187	93.7	-0.52
Ethylbenzene	µg/l	1.44 ± 0.102	1.2756 ± 0.061	0.288	88.7	-1.03
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.6792 ± 0.16	0.247	109	0.39
o-Xylene	µg/l	1.51 ± 0.113	1.3357 ± 0.089	0.226	88.6	-0.82
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.3839 ± 0.11	0.542	87.9	-0.95
Toluene	µg/l	1.08 ± 0.0828	0.959 ± 0.08	0.237	89	-0.66

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	6.1485 ± 0.31	1.08	91.4	-0.80
Ethylbenzene	µg/l	6.27 ± 0.421	5.7595 ± 0.27	1.25	91.8	-0.75
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	6.4942 ± 0.64	0.826	102	0.10
o-Xylene	µg/l	6.5 ± 0.486	6.0825 ± 0.4	0.976	93.5	-0.45
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	8.3771 ± 0.4	1.8	93	-0.57
Toluene	µg/l	6.69 ± 0.56	5.9025 ± 0.49	1.47	88.2	-0.70

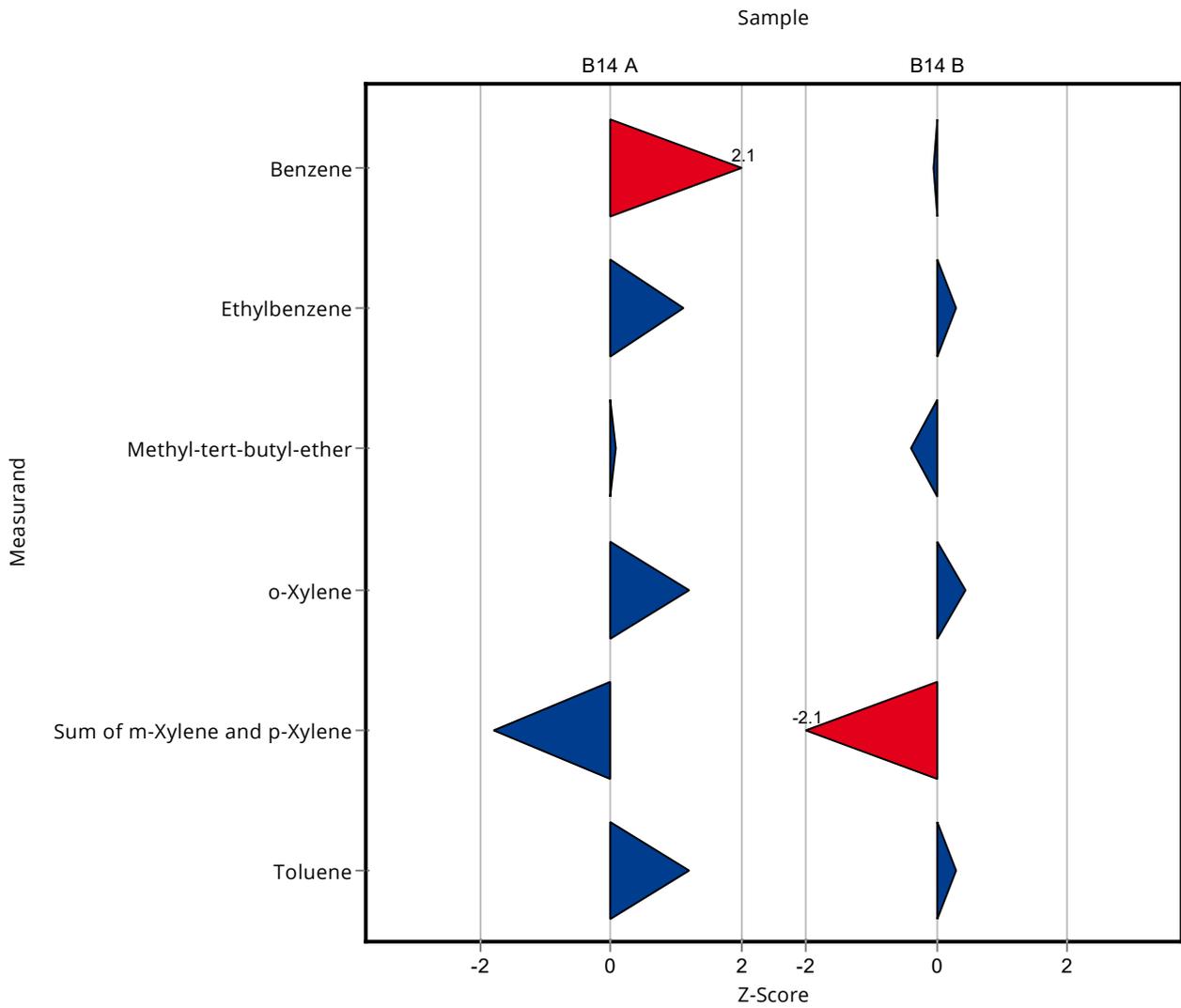


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.554 ± 0.08	0.187	133	2.05
Ethylbenzene	µg/l	1.44 ± 0.102	1.76 ± 0.0942	0.288	122	1.12
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.56 ± 0.0827	0.247	101	0.08
o-Xylene	µg/l	1.51 ± 0.113	1.779 ± 0.0907	0.226	118	1.20
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	1.747 ± 0.0952	0.542	64.5	-1.78
Toluene	µg/l	1.08 ± 0.0828	1.361 ± 0.0701	0.237	126	1.19

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	6.677 ± 0.3439	1.08	99.3	-0.04
Ethylbenzene	µg/l	6.27 ± 0.421	6.652 ± 0.3559	1.25	106	0.30
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	6.024 ± 0.3193	0.826	94.8	-0.40
o-Xylene	µg/l	6.5 ± 0.486	6.937 ± 0.3538	0.976	107	0.44
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	5.235 ± 0.2853	1.8	58.1	-2.10
Toluene	µg/l	6.69 ± 0.56	7.14 ± 0.3677	1.47	107	0.30

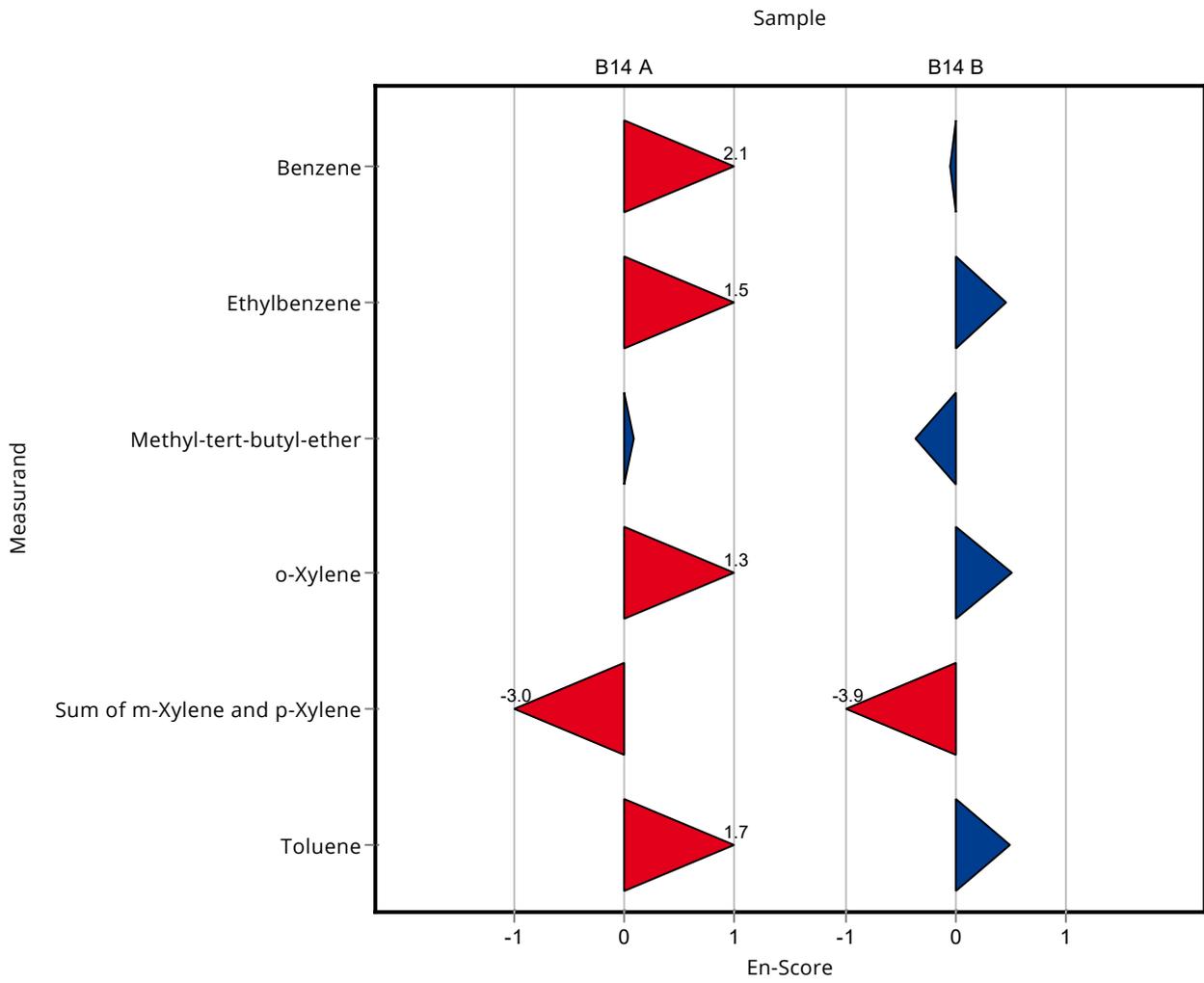


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.554 ± 0.08	0.187	133	2.13
Ethylbenzene	µg/l	1.44 ± 0.102	1.76 ± 0.0942	0.288	122	1.50
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.56 ± 0.0827	0.247	101	0.08
o-Xylene	µg/l	1.51 ± 0.113	1.779 ± 0.0907	0.226	118	1.27
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	1.747 ± 0.0952	0.542	64.5	-2.96
Toluene	µg/l	1.08 ± 0.0828	1.361 ± 0.0701	0.237	126	1.74

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	6.677 ± 0.3439	1.08	99.3	-0.06
Ethylbenzene	µg/l	6.27 ± 0.421	6.652 ± 0.3559	1.25	106	0.46
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	6.024 ± 0.3193	0.826	94.8	-0.36
o-Xylene	µg/l	6.5 ± 0.486	6.937 ± 0.3538	0.976	107	0.50
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	5.235 ± 0.2853	1.8	58.1	-3.89
Toluene	µg/l	6.69 ± 0.56	7.14 ± 0.3677	1.47	107	0.48

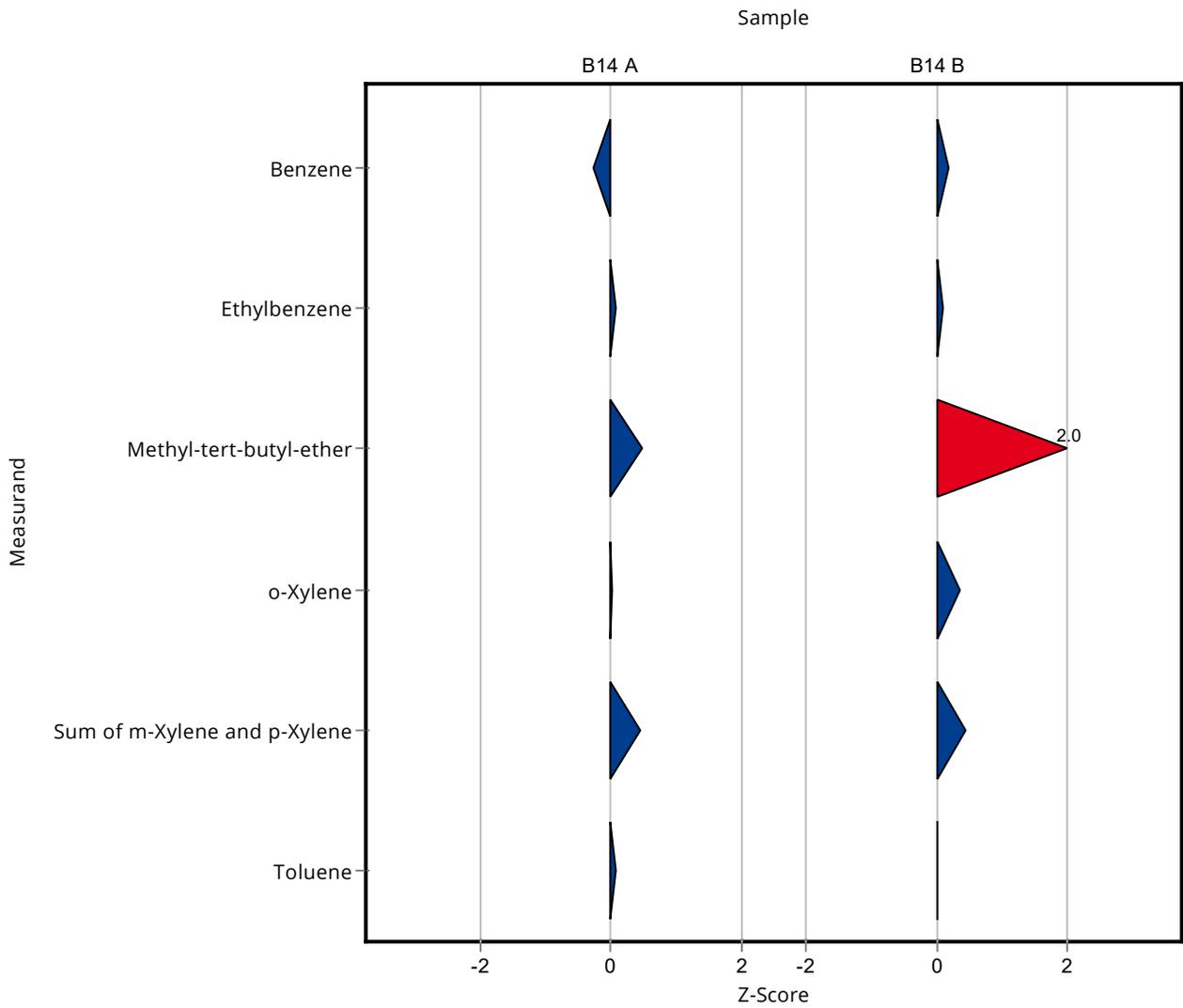


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.12 ± 0.11	0.187	95.8	-0.27
Ethylbenzene	µg/l	1.44 ± 0.102	1.46 ± 0.19	0.288	101	0.07
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.66 ± 0.21	0.247	108	0.48
o-Xylene	µg/l	1.51 ± 0.113	1.51 ± 0.15	0.226	100	0.01
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.96 ± 0.35	0.542	109	0.46
Toluene	µg/l	1.08 ± 0.0828	1.1 ± 0.11	0.237	102	0.09

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	6.91 ± 0.69	1.08	103	0.17
Ethylbenzene	µg/l	6.27 ± 0.421	6.39 ± 0.81	1.25	102	0.09
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	8.03 ± 1	0.826	126	2.03
o-Xylene	µg/l	6.5 ± 0.486	6.86 ± 0.69	0.976	105	0.37
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	9.82 ± 1.2	1.8	109	0.45
Toluene	µg/l	6.69 ± 0.56	6.69 ± 0.67	1.47	99.9	0.00

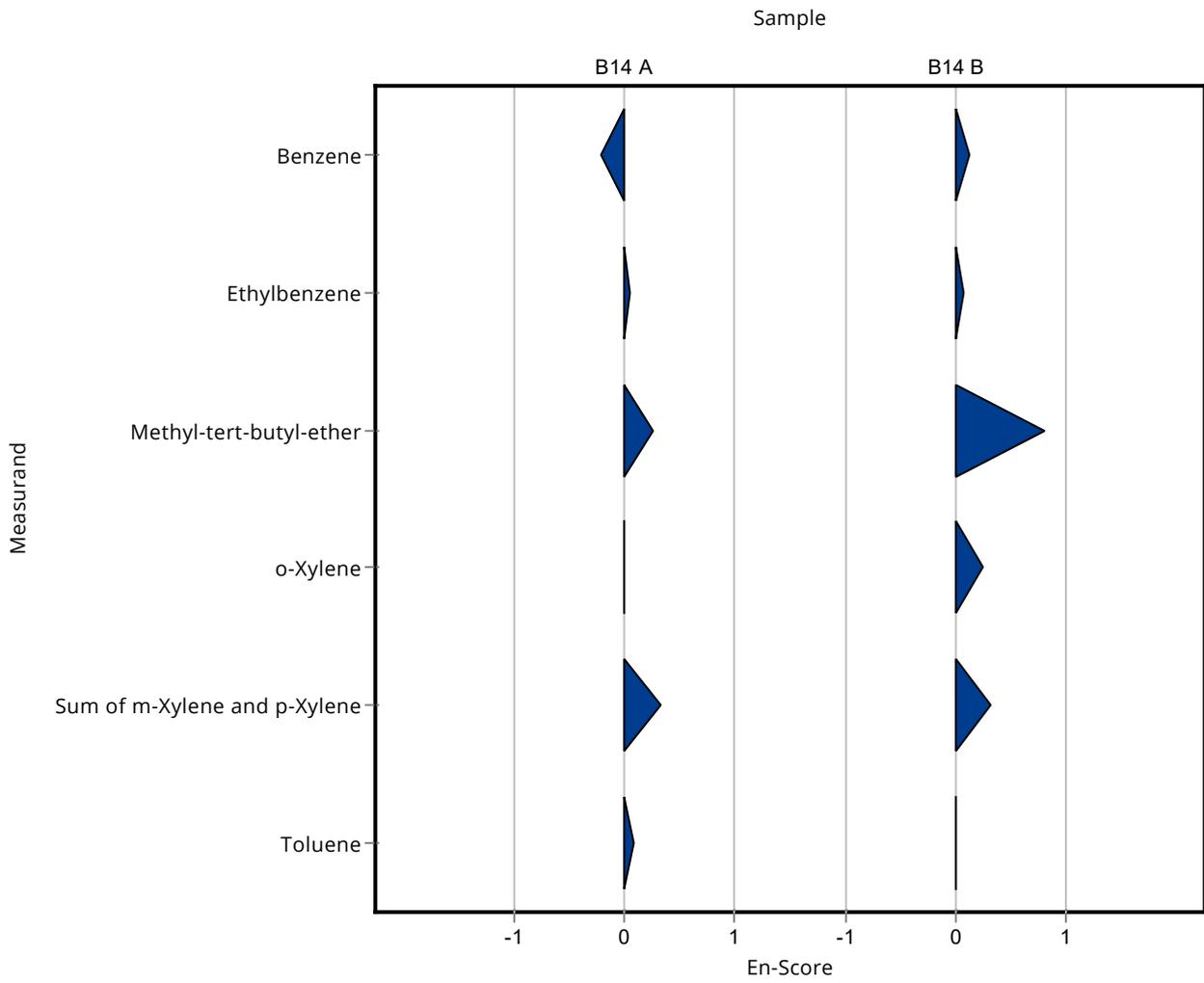


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.12 ± 0.11	0.187	95.8	-0.21
Ethylbenzene	µg/l	1.44 ± 0.102	1.46 ± 0.19	0.288	101	0.05
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.66 ± 0.21	0.247	108	0.26
o-Xylene	µg/l	1.51 ± 0.113	1.51 ± 0.15	0.226	100	0.01
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.96 ± 0.35	0.542	109	0.33
Toluene	µg/l	1.08 ± 0.0828	1.1 ± 0.11	0.237	102	0.09

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	6.91 ± 0.69	1.08	103	0.13
Ethylbenzene	µg/l	6.27 ± 0.421	6.39 ± 0.81	1.25	102	0.07
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	8.03 ± 1	0.826	126	0.80
o-Xylene	µg/l	6.5 ± 0.486	6.86 ± 0.69	0.976	105	0.24
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	9.82 ± 1.2	1.8	109	0.32
Toluene	µg/l	6.69 ± 0.56	6.69 ± 0.67	1.47	99.9	0.00

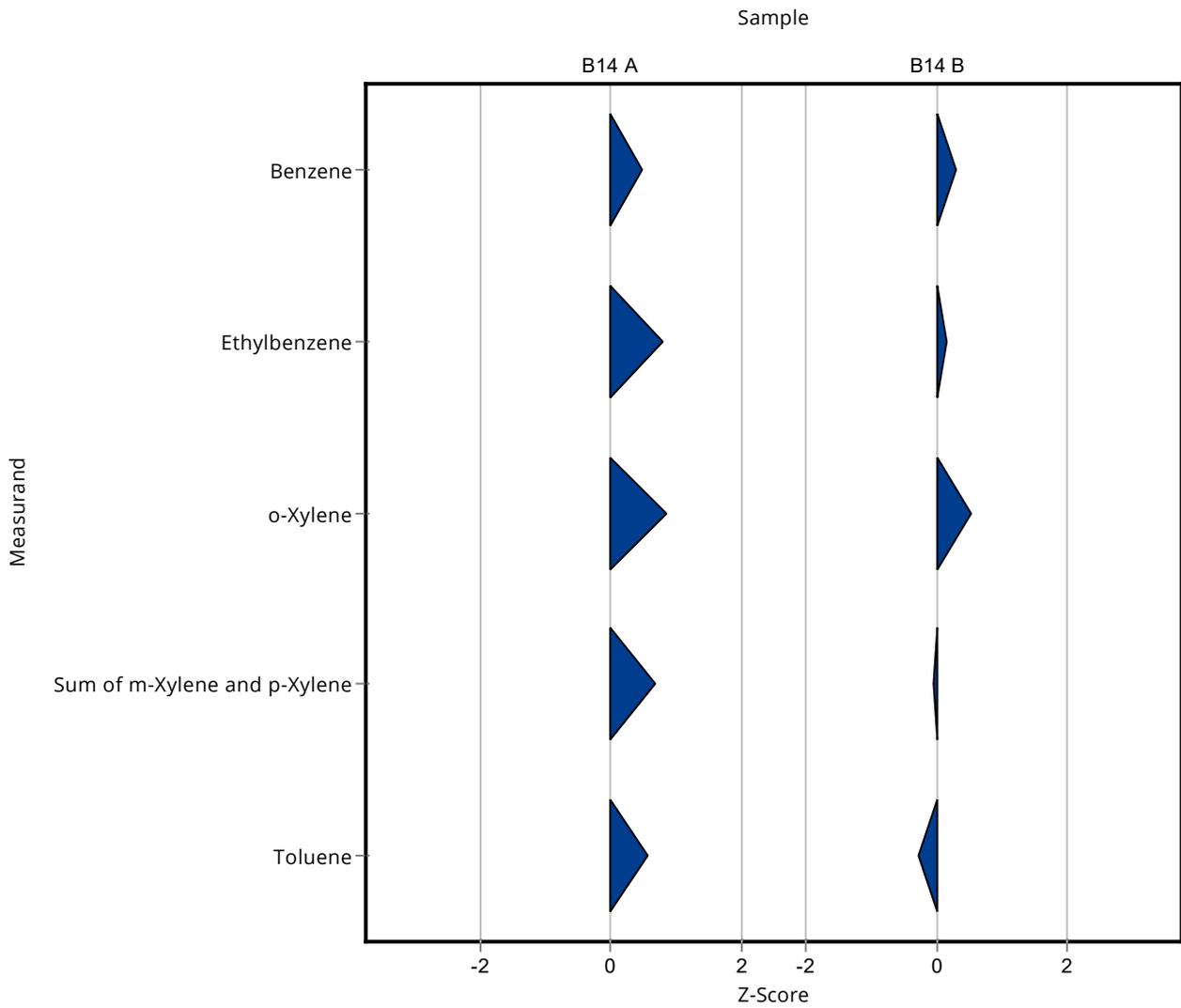


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.26 ± 0.12	0.187	108	0.48
Ethylbenzene	µg/l	1.44 ± 0.102	1.67 ± 0.13	0.288	116	0.80
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	1.7 ± 0.15	0.226	113	0.85
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	3.09 ± 0.24	0.542	114	0.70
Toluene	µg/l	1.08 ± 0.0828	1.21 ± 0.11	0.237	112	0.56

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	7.05 ± 0.53	1.08	105	0.30
Ethylbenzene	µg/l	6.27 ± 0.421	6.48 ± 0.54	1.25	103	0.16
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	7.02 ± 0.95	0.976	108	0.53
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	8.93 ± 1.3	1.8	99.1	-0.05
Toluene	µg/l	6.69 ± 0.56	6.26 ± 0.53	1.47	93.5	-0.29

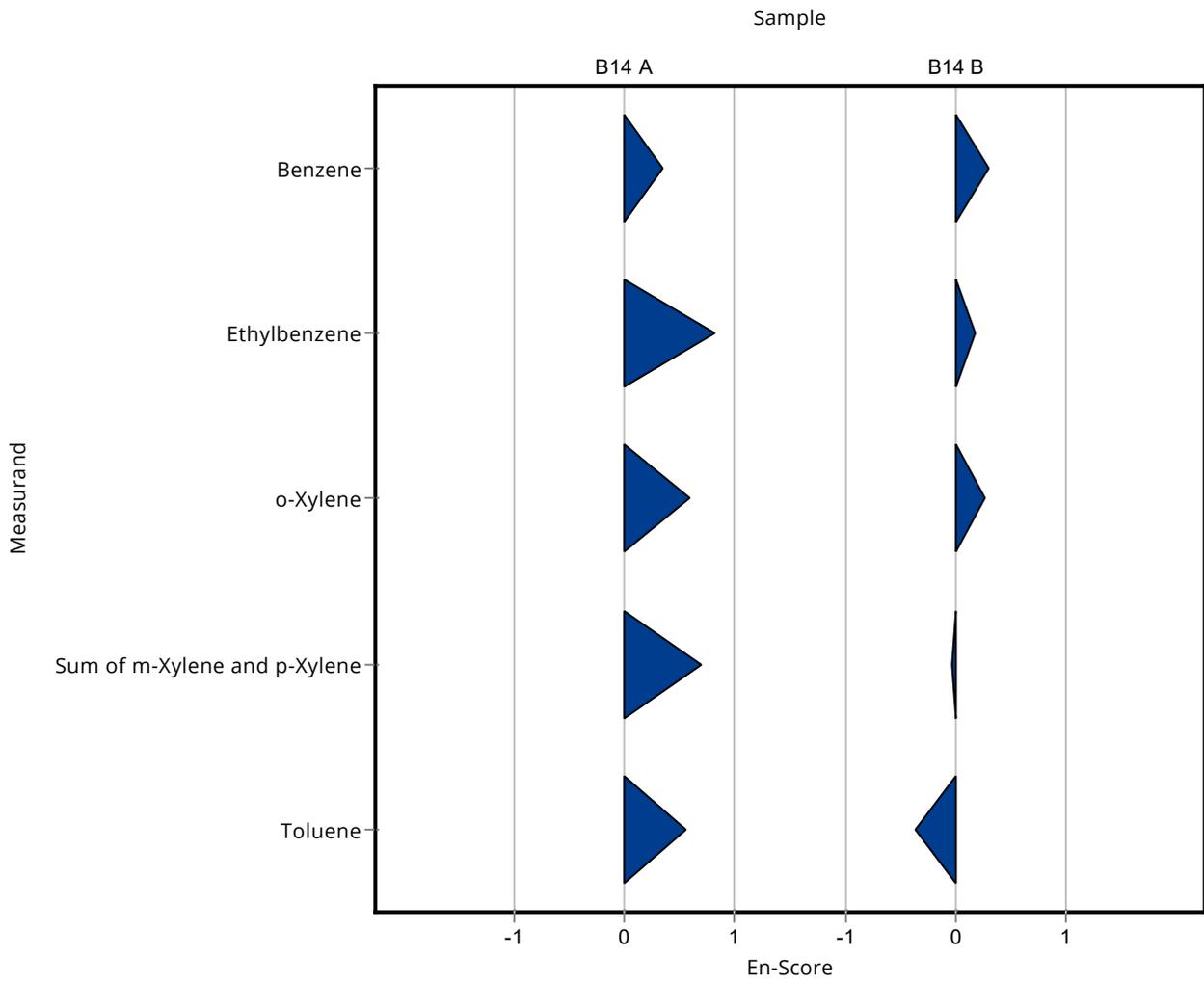


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.26 ± 0.12	0.187	108	0.36
Ethylbenzene	µg/l	1.44 ± 0.102	1.67 ± 0.13	0.288	116	0.83
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	1.7 ± 0.15	0.226	113	0.60
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	3.09 ± 0.24	0.542	114	0.69
Toluene	µg/l	1.08 ± 0.0828	1.21 ± 0.11	0.237	112	0.56

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	7.05 ± 0.53	1.08	105	0.29
Ethylbenzene	µg/l	6.27 ± 0.421	6.48 ± 0.54	1.25	103	0.18
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	7.02 ± 0.95	0.976	108	0.26
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	8.93 ± 1.3	1.8	99.1	-0.03
Toluene	µg/l	6.69 ± 0.56	6.26 ± 0.53	1.47	93.5	-0.36

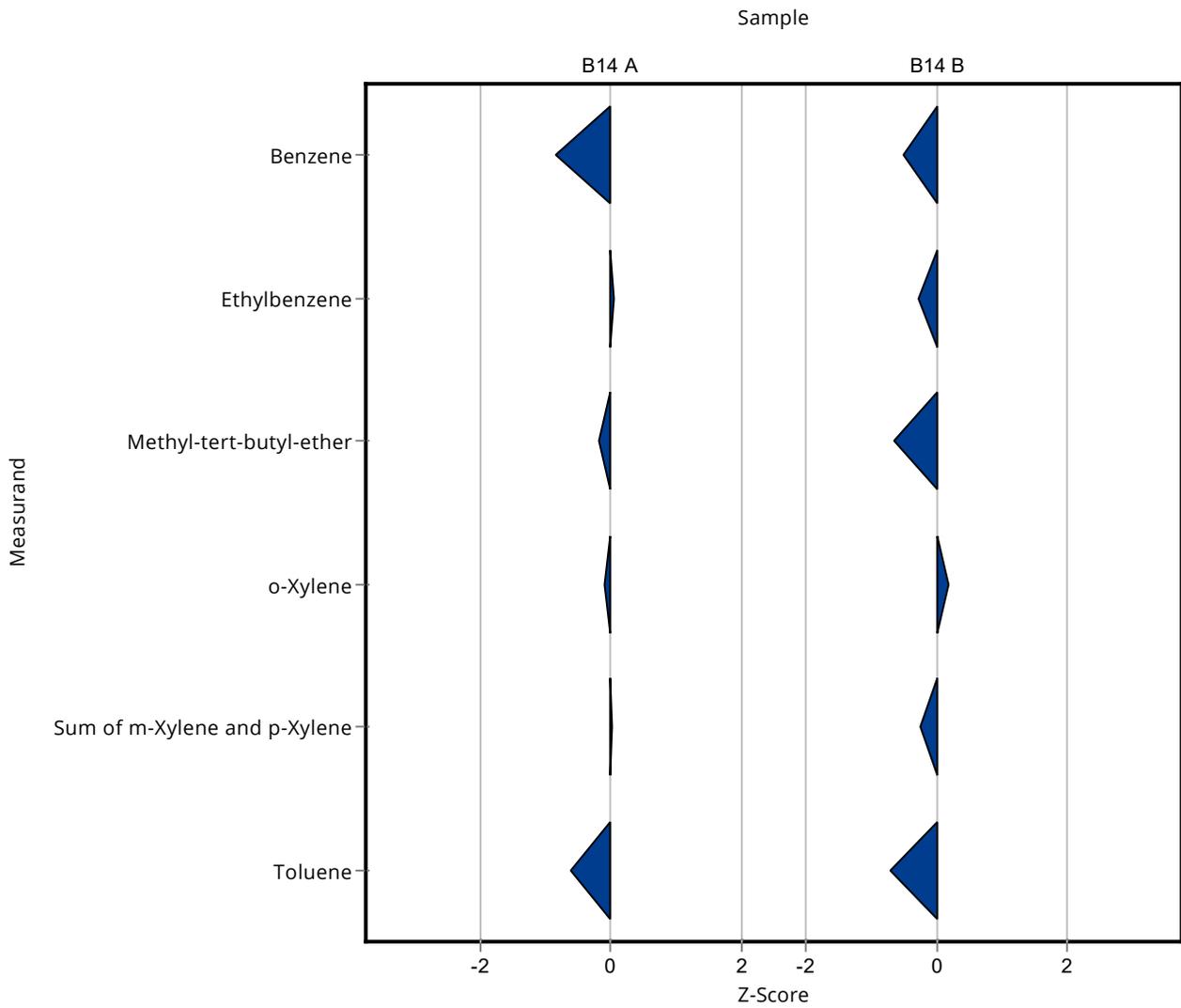


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.01 ± 0.13	0.187	86.4	-0.85
Ethylbenzene	µg/l	1.44 ± 0.102	1.45 ± 0.21	0.288	101	0.04
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.5 ± 0.23	0.247	97.3	-0.17
o-Xylene	µg/l	1.51 ± 0.113	1.49 ± 0.23	0.226	98.8	-0.08
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.73 ± 0.4	0.542	101	0.04
Toluene	µg/l	1.08 ± 0.0828	0.934 ± 0.12	0.237	86.6	-0.61

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	6.17 ± 0.79	1.08	91.8	-0.52
Ethylbenzene	µg/l	6.27 ± 0.421	5.92 ± 0.86	1.25	94.3	-0.28
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	5.81 ± 0.88	0.826	91.4	-0.66
o-Xylene	µg/l	6.5 ± 0.486	6.68 ± 1.03	0.976	103	0.18
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	8.57 ± 1.27	1.8	95.1	-0.25
Toluene	µg/l	6.69 ± 0.56	5.66 ± 0.72	1.47	84.6	-0.70

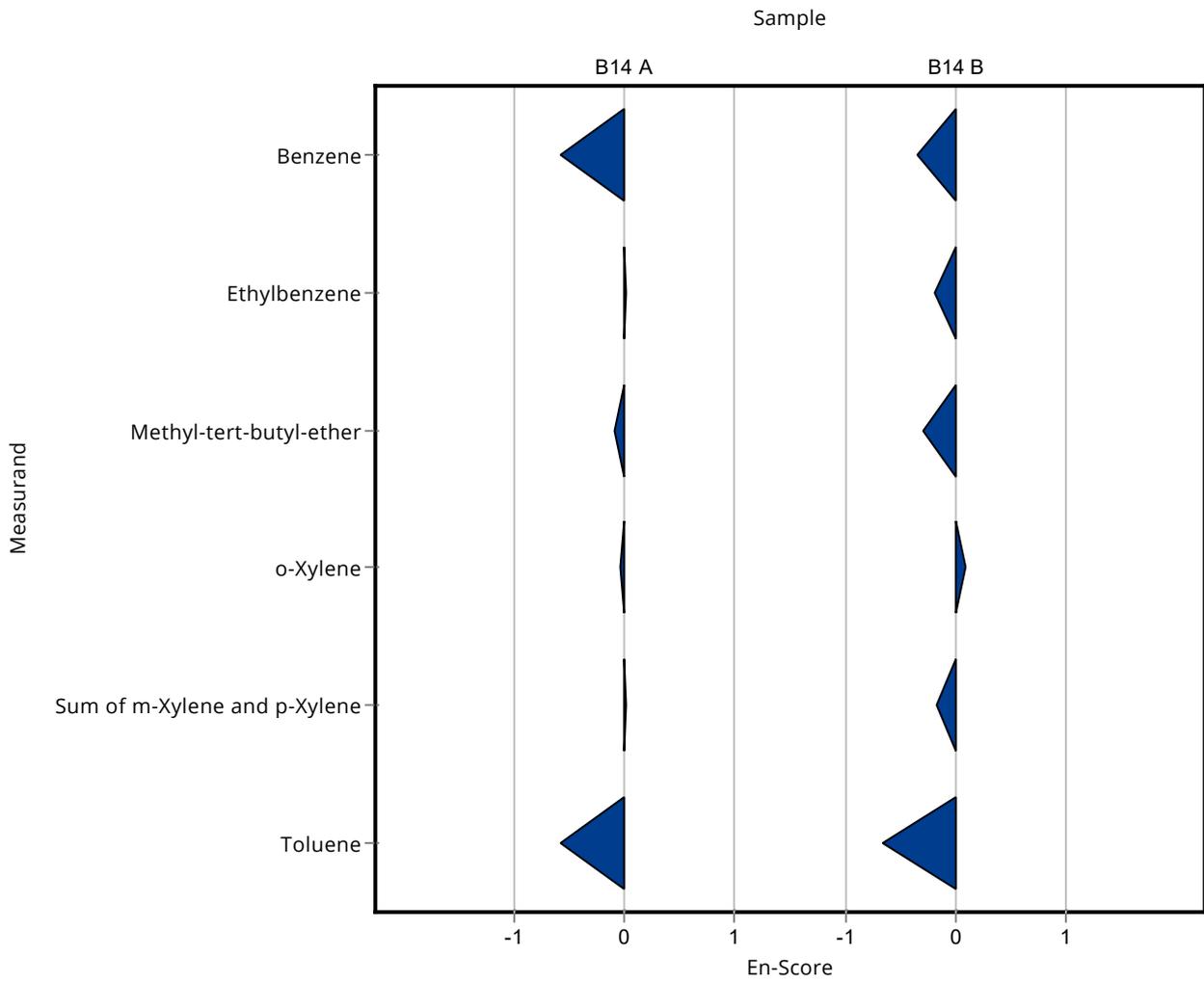


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.01 ± 0.13	0.187	86.4	-0.58
Ethylbenzene	µg/l	1.44 ± 0.102	1.45 ± 0.21	0.288	101	0.03
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.5 ± 0.23	0.247	97.3	-0.09
o-Xylene	µg/l	1.51 ± 0.113	1.49 ± 0.23	0.226	98.8	-0.04
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.73 ± 0.4	0.542	101	0.02
Toluene	µg/l	1.08 ± 0.0828	0.934 ± 0.12	0.237	86.6	-0.57

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	6.17 ± 0.79	1.08	91.8	-0.34
Ethylbenzene	µg/l	6.27 ± 0.421	5.92 ± 0.86	1.25	94.3	-0.20
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	5.81 ± 0.88	0.826	91.4	-0.29
o-Xylene	µg/l	6.5 ± 0.486	6.68 ± 1.03	0.976	103	0.08
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	8.57 ± 1.27	1.8	95.1	-0.17
Toluene	µg/l	6.69 ± 0.56	5.66 ± 0.72	1.47	84.6	-0.67

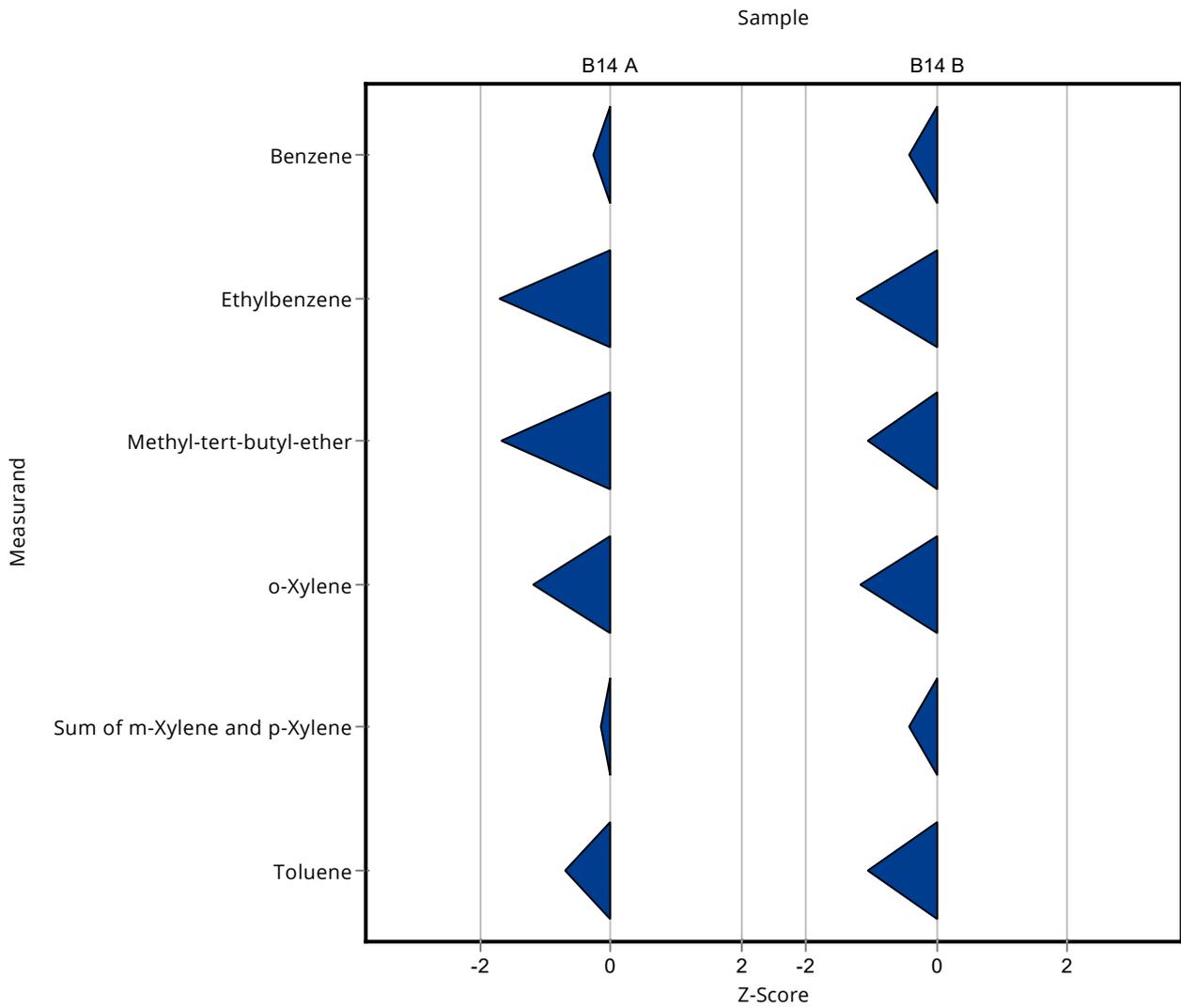


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.12 ± 0.49	0.187	95.8	-0.27
Ethylbenzene	µg/l	1.44 ± 0.102	0.95 ± 0.42	0.288	66	-1.70
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.13 ± 0.49	0.247	73.3	-1.67
o-Xylene	µg/l	1.51 ± 0.113	1.24 ± 0.55	0.226	82.2	-1.18
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.63 ± 1.16	0.542	97	-0.15
Toluene	µg/l	1.08 ± 0.0828	0.91 ± 0.4	0.237	84.4	-0.71

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	6.27 ± 2.76	1.08	93.2	-0.42
Ethylbenzene	µg/l	6.27 ± 0.421	4.74 ± 2.08	1.25	75.5	-1.22
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	5.48 ± 2.41	0.826	86.2	-1.06
o-Xylene	µg/l	6.5 ± 0.486	5.37 ± 2.36	0.976	82.6	-1.16
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	8.26 ± 3.63	1.8	91.7	-0.42
Toluene	µg/l	6.69 ± 0.56	5.13 ± 2.26	1.47	76.6	-1.06

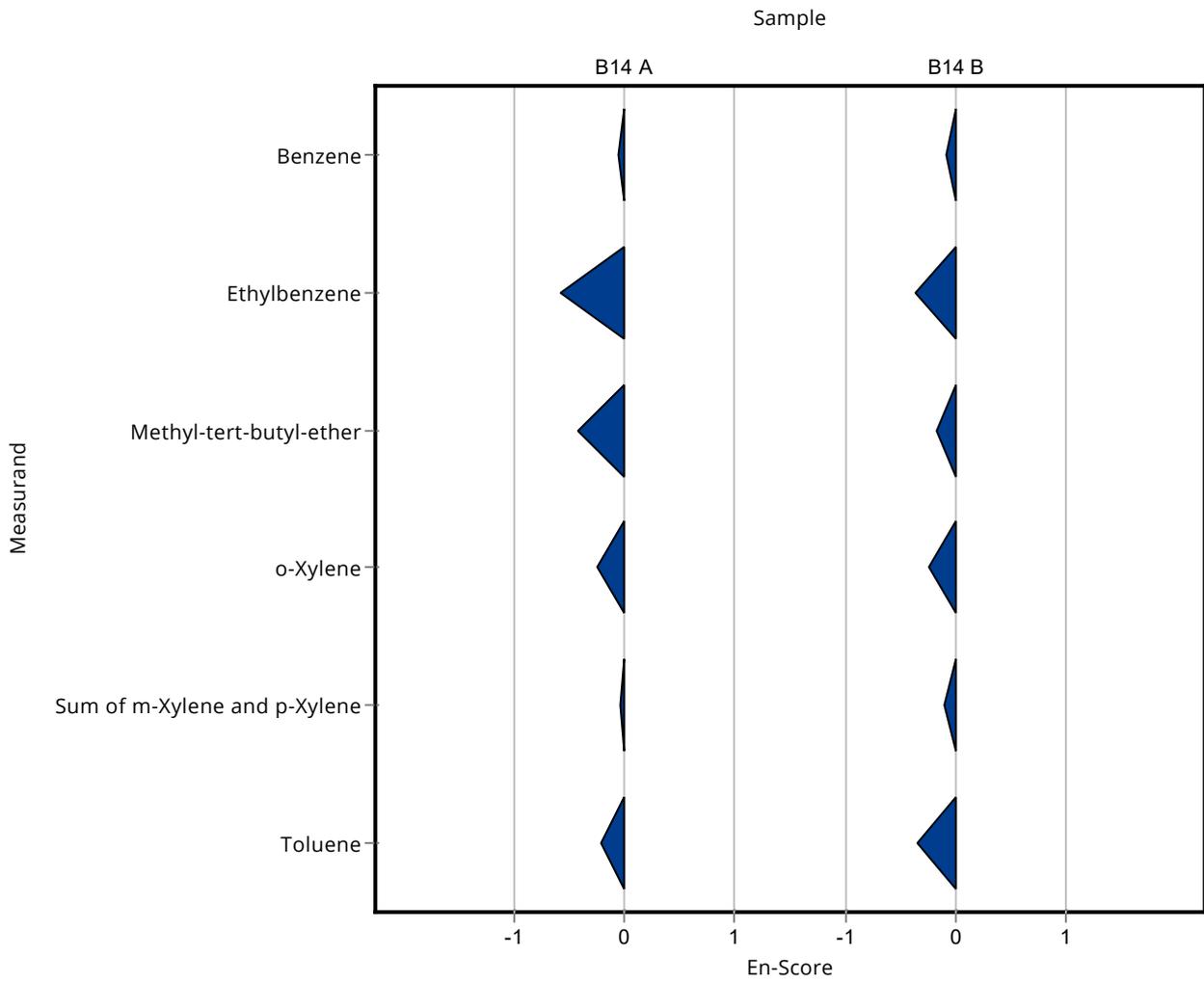


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.12 ± 0.49	0.187	95.8	-0.05
Ethylbenzene	µg/l	1.44 ± 0.102	0.95 ± 0.42	0.288	66	-0.58
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.13 ± 0.49	0.247	73.3	-0.41
o-Xylene	µg/l	1.51 ± 0.113	1.24 ± 0.55	0.226	82.2	-0.24
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.63 ± 1.16	0.542	97	-0.03
Toluene	µg/l	1.08 ± 0.0828	0.91 ± 0.4	0.237	84.4	-0.21

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	6.27 ± 2.76	1.08	93.2	-0.08
Ethylbenzene	µg/l	6.27 ± 0.421	4.74 ± 2.08	1.25	75.5	-0.37
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	5.48 ± 2.41	0.826	86.2	-0.18
o-Xylene	µg/l	6.5 ± 0.486	5.37 ± 2.36	0.976	82.6	-0.24
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	8.26 ± 3.63	1.8	91.7	-0.10
Toluene	µg/l	6.69 ± 0.56	5.13 ± 2.26	1.47	76.6	-0.34

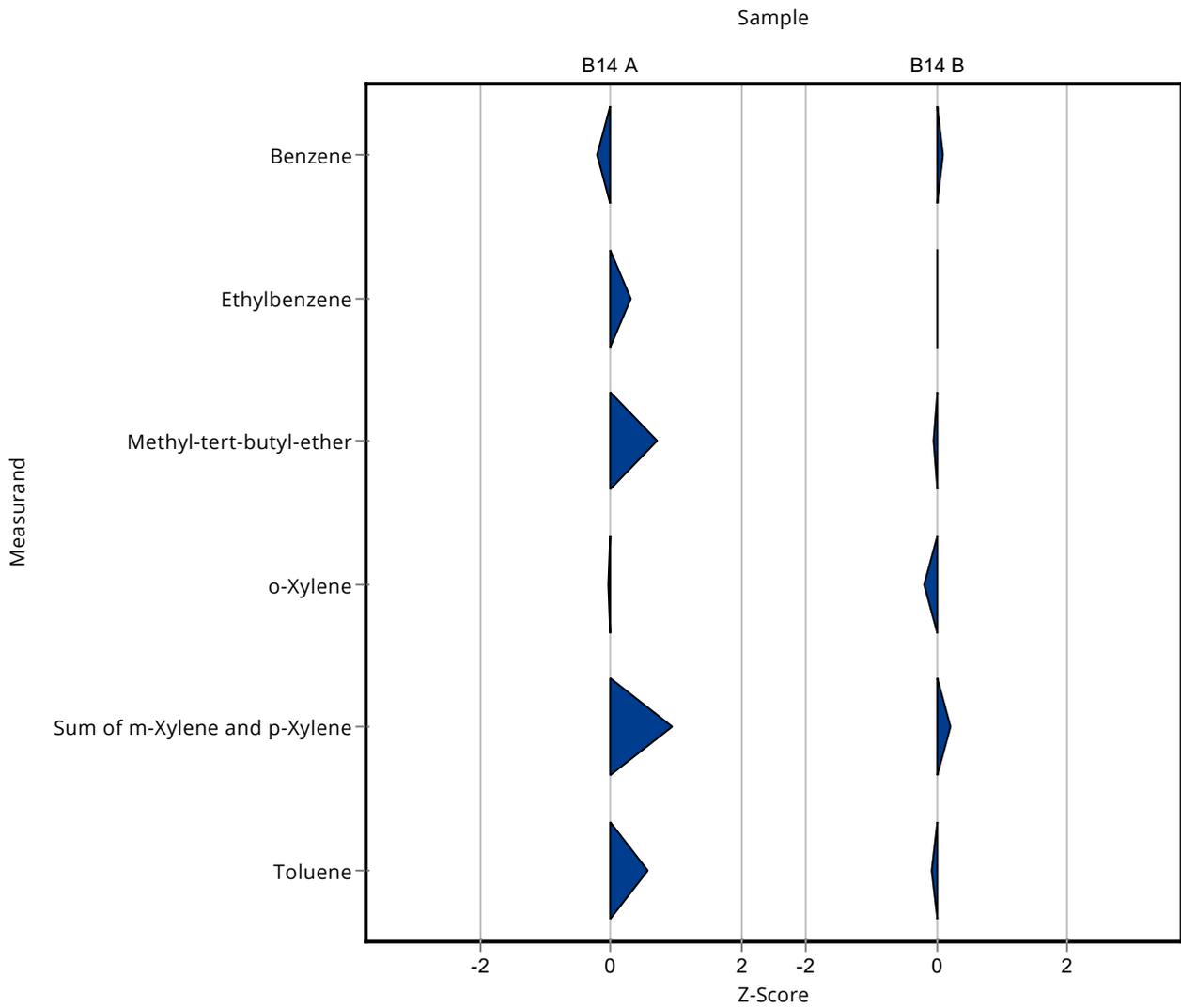


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.13 ± 0.339	0.187	96.6	-0.21
Ethylbenzene	µg/l	1.44 ± 0.102	1.53 ± 0.459	0.288	106	0.32
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.72 ± 0.258	0.247	112	0.72
o-Xylene	µg/l	1.51 ± 0.113	1.5 ± 0.45	0.226	99.5	-0.04
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	3.23 ± 0.969	0.542	119	0.96
Toluene	µg/l	1.08 ± 0.0828	1.21 ± 0.363	0.237	112	0.56

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	6.82 ± 2.04	1.08	101	0.09
Ethylbenzene	µg/l	6.27 ± 0.421	6.3 ± 1.89	1.25	100	0.02
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	6.32 ± 0.948	0.826	99.5	-0.04
o-Xylene	µg/l	6.5 ± 0.486	6.3 ± 1.89	0.976	96.9	-0.21
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	9.37 ± 2.81	1.8	104	0.20
Toluene	µg/l	6.69 ± 0.56	6.59 ± 1.98	1.47	98.4	-0.07

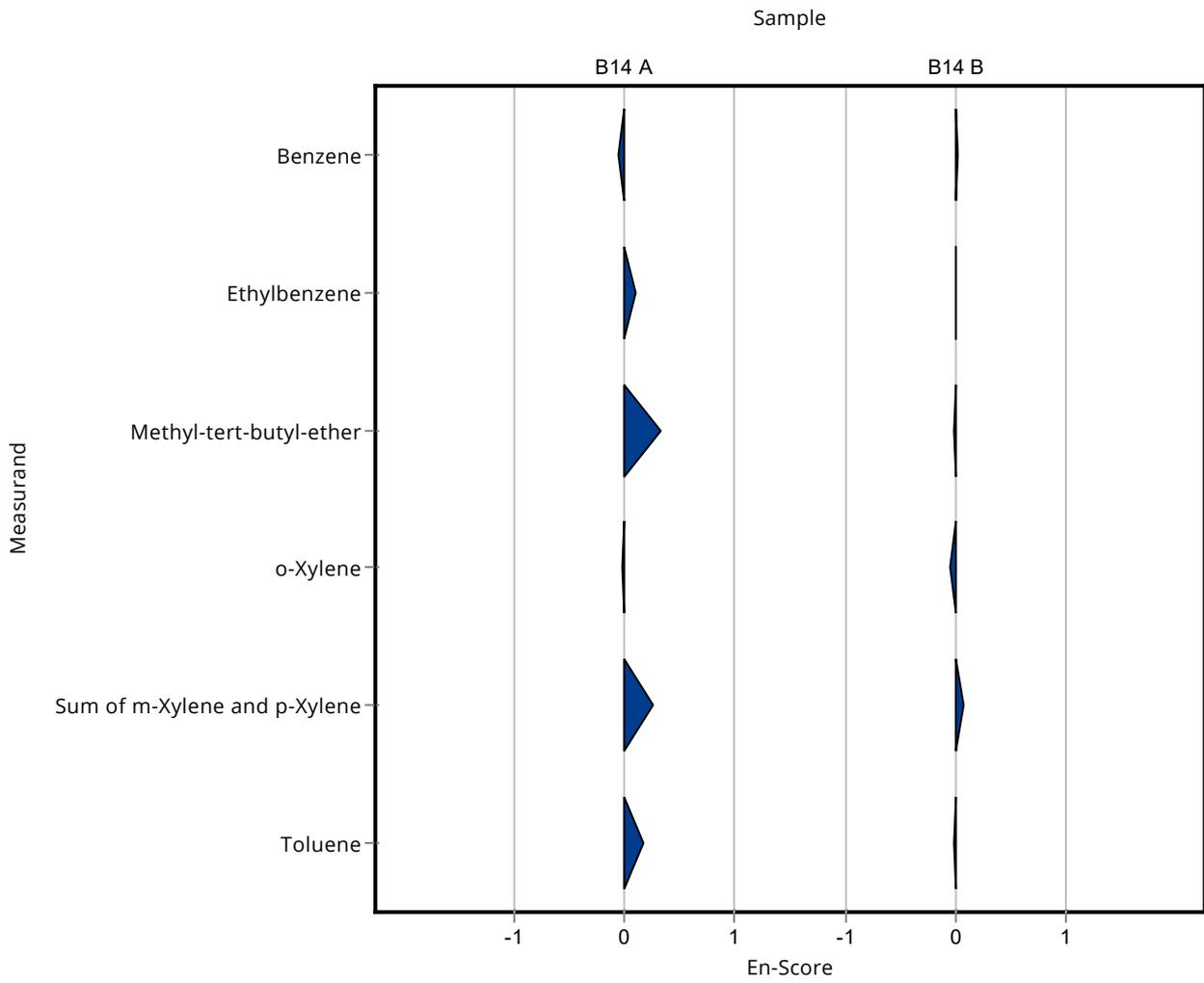


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.13 ± 0.339	0.187	96.6	-0.06
Ethylbenzene	µg/l	1.44 ± 0.102	1.53 ± 0.459	0.288	106	0.10
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.72 ± 0.258	0.247	112	0.33
o-Xylene	µg/l	1.51 ± 0.113	1.5 ± 0.45	0.226	99.5	-0.01
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	3.23 ± 0.969	0.542	119	0.27
Toluene	µg/l	1.08 ± 0.0828	1.21 ± 0.363	0.237	112	0.18

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	6.82 ± 2.04	1.08	101	0.02
Ethylbenzene	µg/l	6.27 ± 0.421	6.3 ± 1.89	1.25	100	0.01
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	6.32 ± 0.948	0.826	99.5	-0.02
o-Xylene	µg/l	6.5 ± 0.486	6.3 ± 1.89	0.976	96.9	-0.05
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	9.37 ± 2.81	1.8	104	0.06
Toluene	µg/l	6.69 ± 0.56	6.59 ± 1.98	1.47	98.4	-0.03

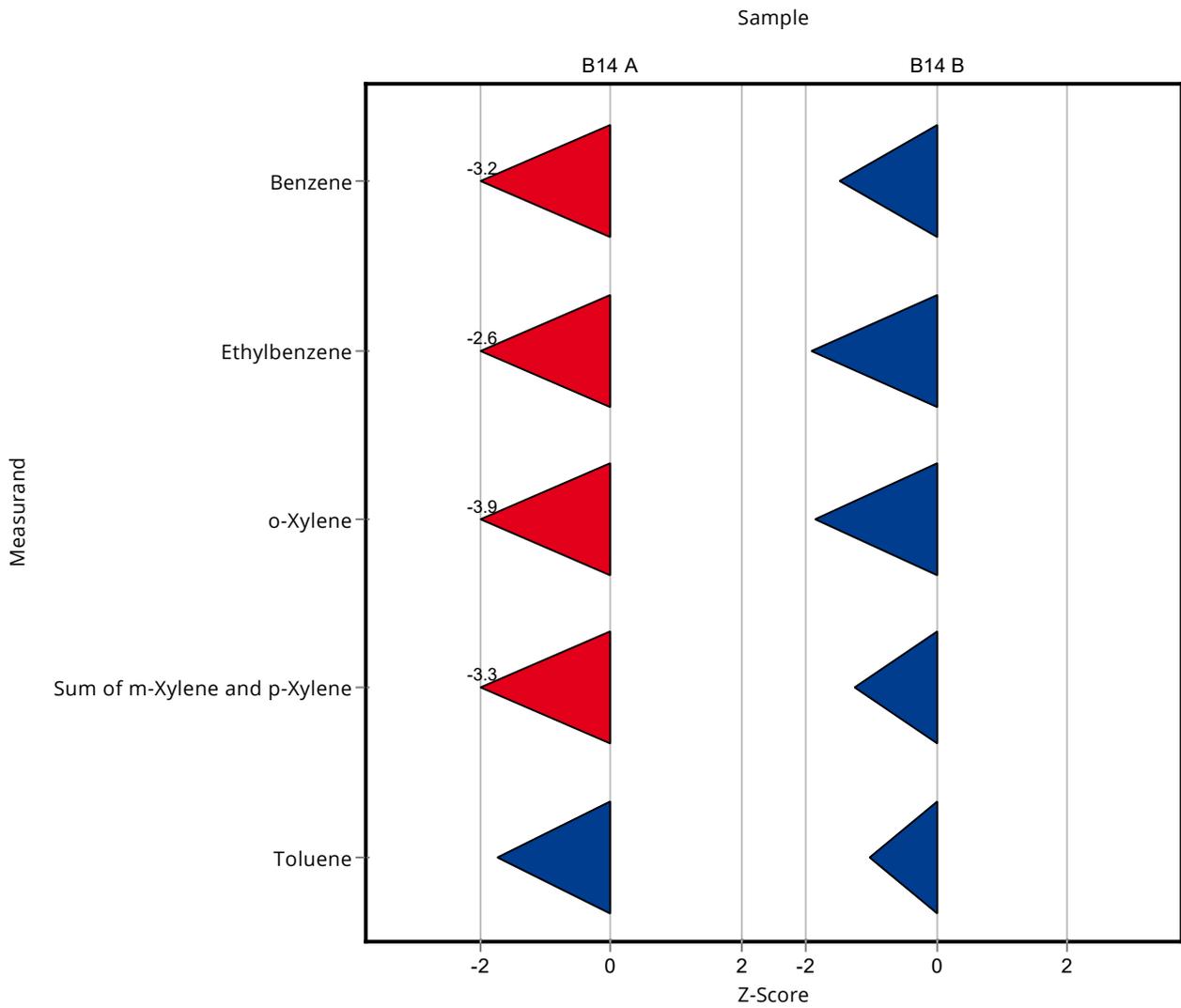


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	0.572 ± 0.11	0.187	48.9	-3.19
Ethylbenzene	µg/l	1.44 ± 0.102	0.69 ± 0.14	0.288	48	-2.60
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	0.632 ± 0.13	0.226	41.9	-3.87
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	0.94 ± 0.19	0.542	34.7	-3.27
Toluene	µg/l	1.08 ± 0.0828	0.67 ± 0.13	0.237	62.1	-1.72

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	5.117 ± 1.02	1.08	76.1	-1.49
Ethylbenzene	µg/l	6.27 ± 0.421	3.853 ± 0.78	1.25	61.4	-1.93
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	4.672 ± 0.93	0.976	71.8	-1.88
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	6.742 ± 1.35	1.8	74.8	-1.26
Toluene	µg/l	6.69 ± 0.56	5.184 ± 1.04	1.47	77.4	-1.03

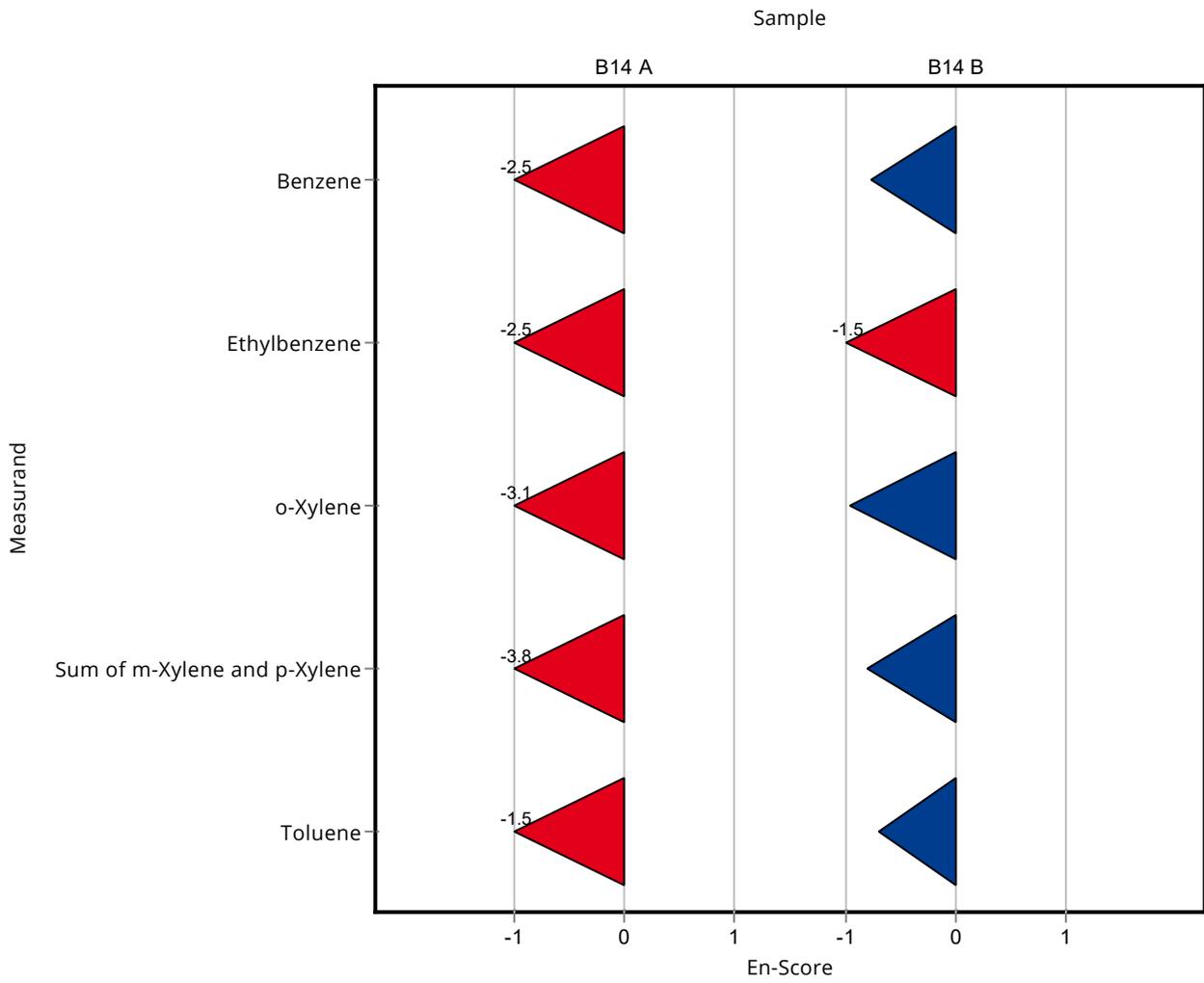


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	0.572 ± 0.11	0.187	48.9	-2.54
Ethylbenzene	µg/l	1.44 ± 0.102	0.69 ± 0.14	0.288	48	-2.51
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	0.632 ± 0.13	0.226	41.9	-3.09
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	0.94 ± 0.19	0.542	34.7	-3.83
Toluene	µg/l	1.08 ± 0.0828	0.67 ± 0.13	0.237	62.1	-1.50

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	5.117 ± 1.02	1.08	76.1	-0.78
Ethylbenzene	µg/l	6.27 ± 0.421	3.853 ± 0.78	1.25	61.4	-1.50
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	4.672 ± 0.93	0.976	71.8	-0.95
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	6.742 ± 1.35	1.8	74.8	-0.81
Toluene	µg/l	6.69 ± 0.56	5.184 ± 1.04	1.47	77.4	-0.70

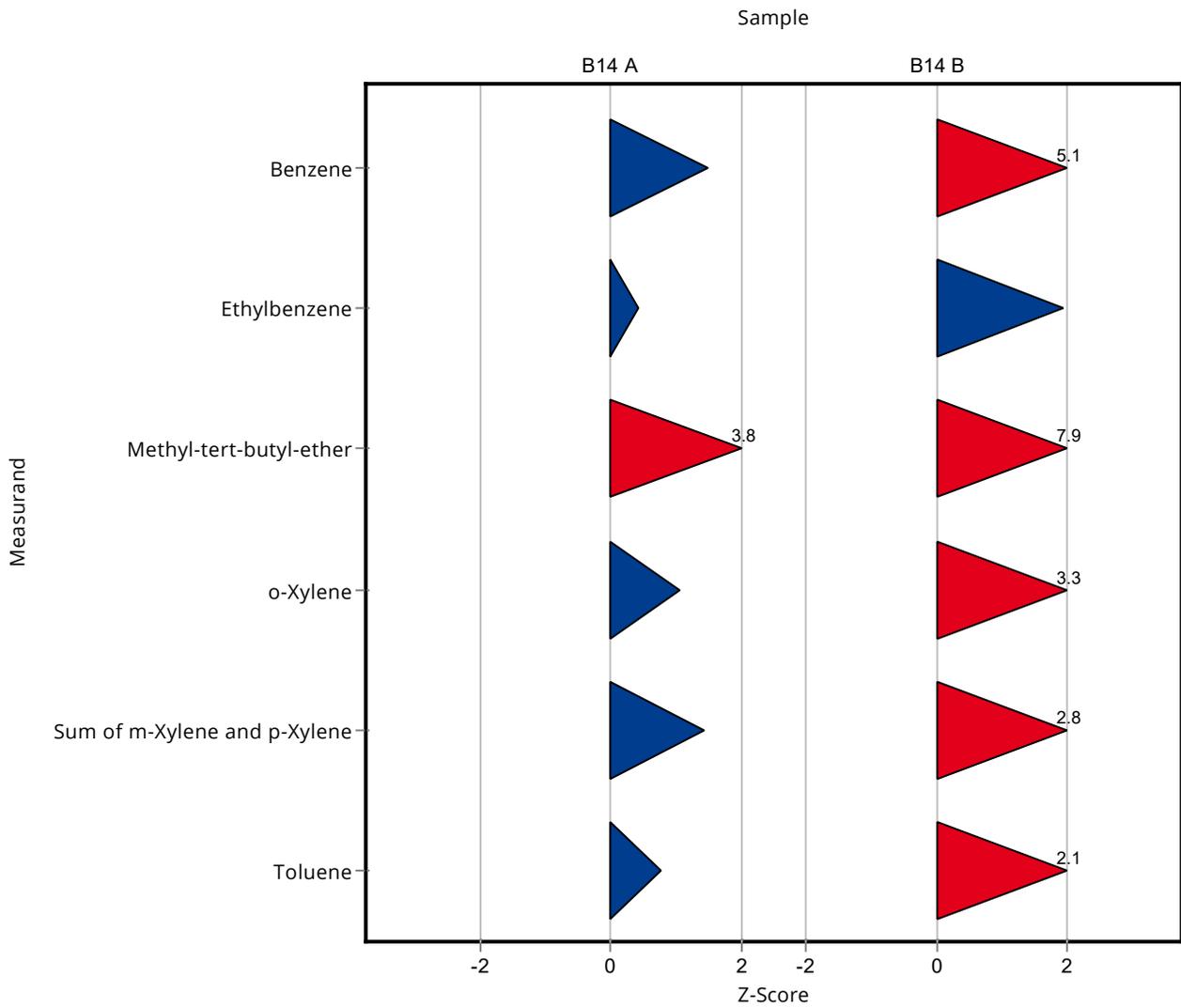


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.45 ± 0.18	0.187	124	1.50
Ethylbenzene	µg/l	1.44 ± 0.102	1.56 ± 0.34	0.288	108	0.42
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	2.47 ± 0.54	0.247	160	3.77
o-Xylene	µg/l	1.51 ± 0.113	1.75 ± 0.39	0.226	116	1.07
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	3.49 ± 0.77	0.542	129	1.44
Toluene	µg/l	1.08 ± 0.0828	1.26 ± 0.28	0.237	117	0.77

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	12.2 ± 1.5	1.08	181	5.09
Ethylbenzene	µg/l	6.27 ± 0.421	8.71 ± 1.92	1.25	139	1.94
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	12.9 ± 2.8	0.826	203	7.92
o-Xylene	µg/l	6.5 ± 0.486	9.74 ± 2.14	0.976	150	3.32
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	14 ± 3.1	1.8	155	2.77
Toluene	µg/l	6.69 ± 0.56	9.79 ± 2.15	1.47	146	2.10

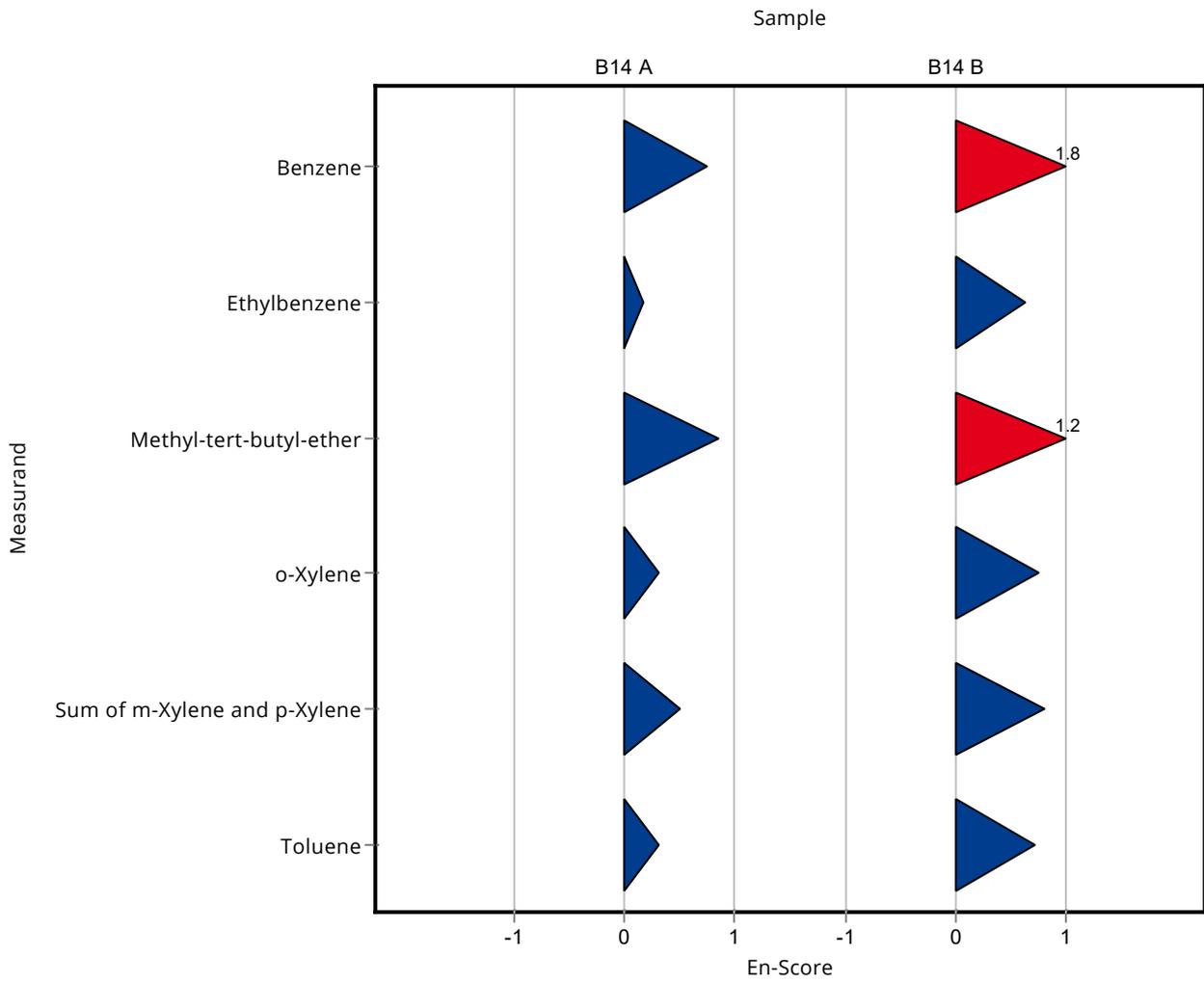


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.45 ± 0.18	0.187	124	0.76
Ethylbenzene	µg/l	1.44 ± 0.102	1.56 ± 0.34	0.288	108	0.18
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	2.47 ± 0.54	0.247	160	0.85
o-Xylene	µg/l	1.51 ± 0.113	1.75 ± 0.39	0.226	116	0.31
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	3.49 ± 0.77	0.542	129	0.50
Toluene	µg/l	1.08 ± 0.0828	1.26 ± 0.28	0.237	117	0.32

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	12.2 ± 1.5	1.08	181	1.81
Ethylbenzene	µg/l	6.27 ± 0.421	8.71 ± 1.92	1.25	139	0.63
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	12.9 ± 2.8	0.826	203	1.16
o-Xylene	µg/l	6.5 ± 0.486	9.74 ± 2.14	0.976	150	0.75
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	14 ± 3.1	1.8	155	0.80
Toluene	µg/l	6.69 ± 0.56	9.79 ± 2.15	1.47	146	0.71



Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	- ± -	0.187	-	-
Ethylbenzene	µg/l	1.44 ± 0.102	- ± -	0.288	-	-
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	- ± -	0.226	-	-
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	- ± -	0.542	-	-
Toluene	µg/l	1.08 ± 0.0828	- ± -	0.237	-	-

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	- ± -	1.08	-	-
Ethylbenzene	µg/l	6.27 ± 0.421	- ± -	1.25	-	-
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	- ± -	0.976	-	-
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	- ± -	1.8	-	-
Toluene	µg/l	6.69 ± 0.56	- ± -	1.47	-	-

Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	- ± -	0.187	-	-
Ethylbenzene	µg/l	1.44 ± 0.102	- ± -	0.288	-	-
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	- ± -	0.226	-	-
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	- ± -	0.542	-	-
Toluene	µg/l	1.08 ± 0.0828	- ± -	0.237	-	-

Sample: B14B

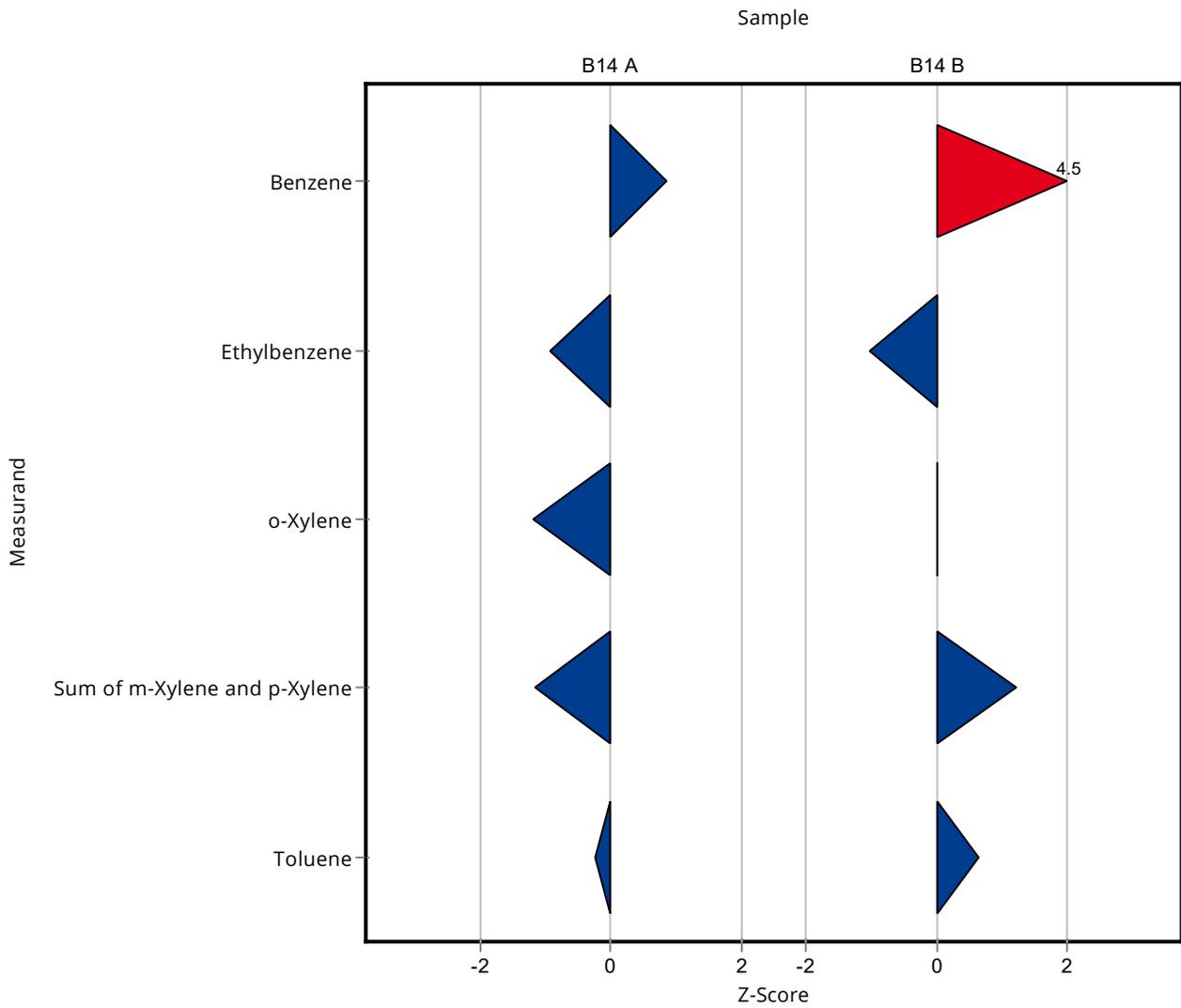
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	- ± -	1.08	-	-
Ethylbenzene	µg/l	6.27 ± 0.421	- ± -	1.25	-	-
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	- ± -	0.976	-	-
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	- ± -	1.8	-	-
Toluene	µg/l	6.69 ± 0.56	- ± -	1.47	-	-

Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.33 ± 0.2	0.187	114	0.86
Ethylbenzene	µg/l	1.44 ± 0.102	1.17 ± 0.17	0.288	81.3	-0.93
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	1.24 ± 0.19	0.226	82.2	-1.18
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.09 ± 0.31	0.542	77.1	-1.14
Toluene	µg/l	1.08 ± 0.0828	1.02 ± 0.15	0.237	94.6	-0.24

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	11.6 ± 1.7	1.08	173	4.53
Ethylbenzene	µg/l	6.27 ± 0.421	4.98 ± 0.75	1.25	79.4	-1.03
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	6.5 ± 0.97	0.976	99.9	0.00
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	11.2 ± 1.7	1.8	124	1.21
Toluene	µg/l	6.69 ± 0.56	7.62 ± 1.1	1.47	114	0.63

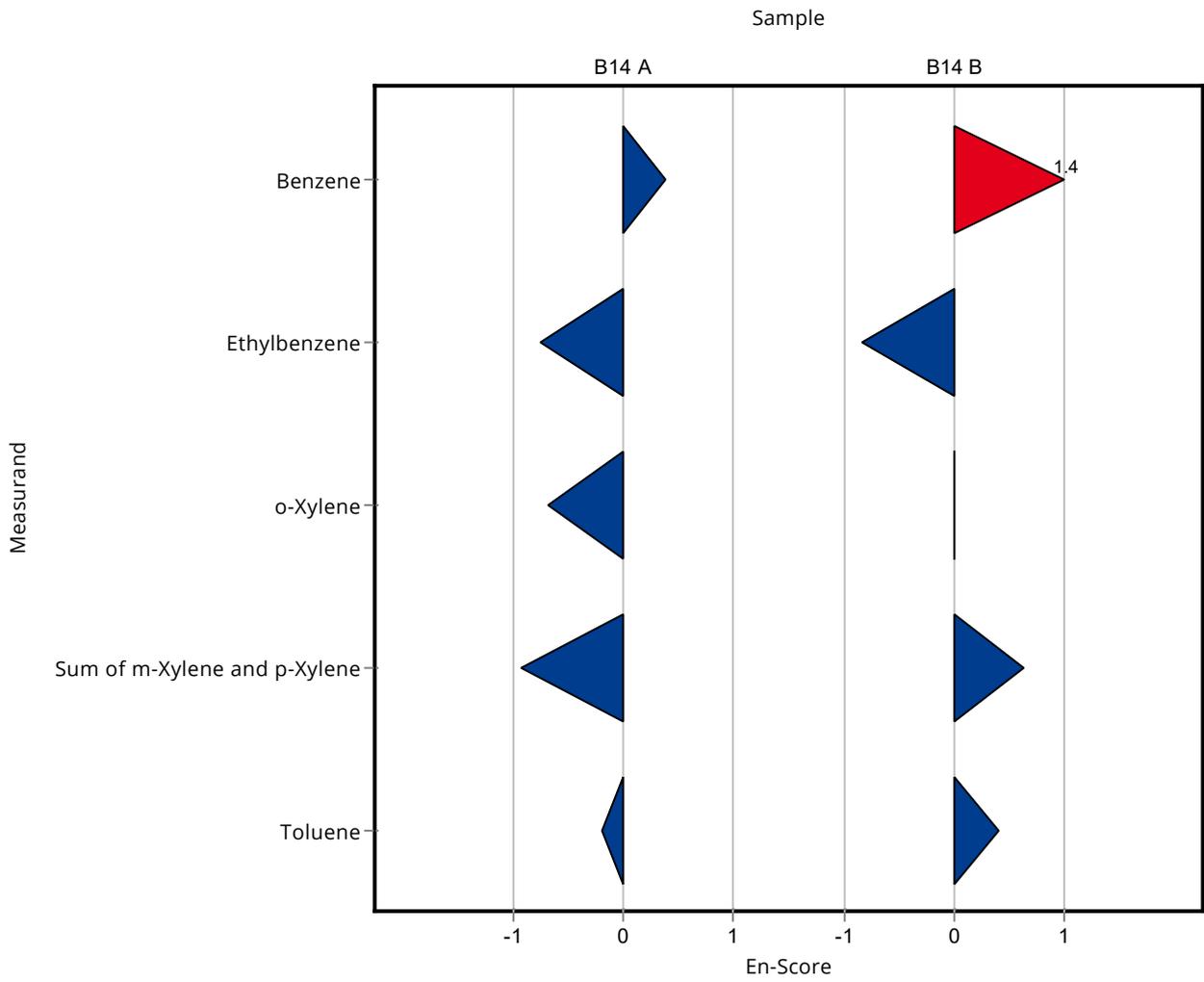


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.33 ± 0.2	0.187	114	0.39
Ethylbenzene	µg/l	1.44 ± 0.102	1.17 ± 0.17	0.288	81.3	-0.76
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	1.24 ± 0.19	0.226	82.2	-0.68
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.09 ± 0.31	0.542	77.1	-0.92
Toluene	µg/l	1.08 ± 0.0828	1.02 ± 0.15	0.237	94.6	-0.19

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	11.6 ± 1.7	1.08	173	1.43
Ethylbenzene	µg/l	6.27 ± 0.421	4.98 ± 0.75	1.25	79.4	-0.83
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	6.5 ± 0.97	0.976	99.9	0.00
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	11.2 ± 1.7	1.8	124	0.63
Toluene	µg/l	6.69 ± 0.56	7.62 ± 1.1	1.47	114	0.41

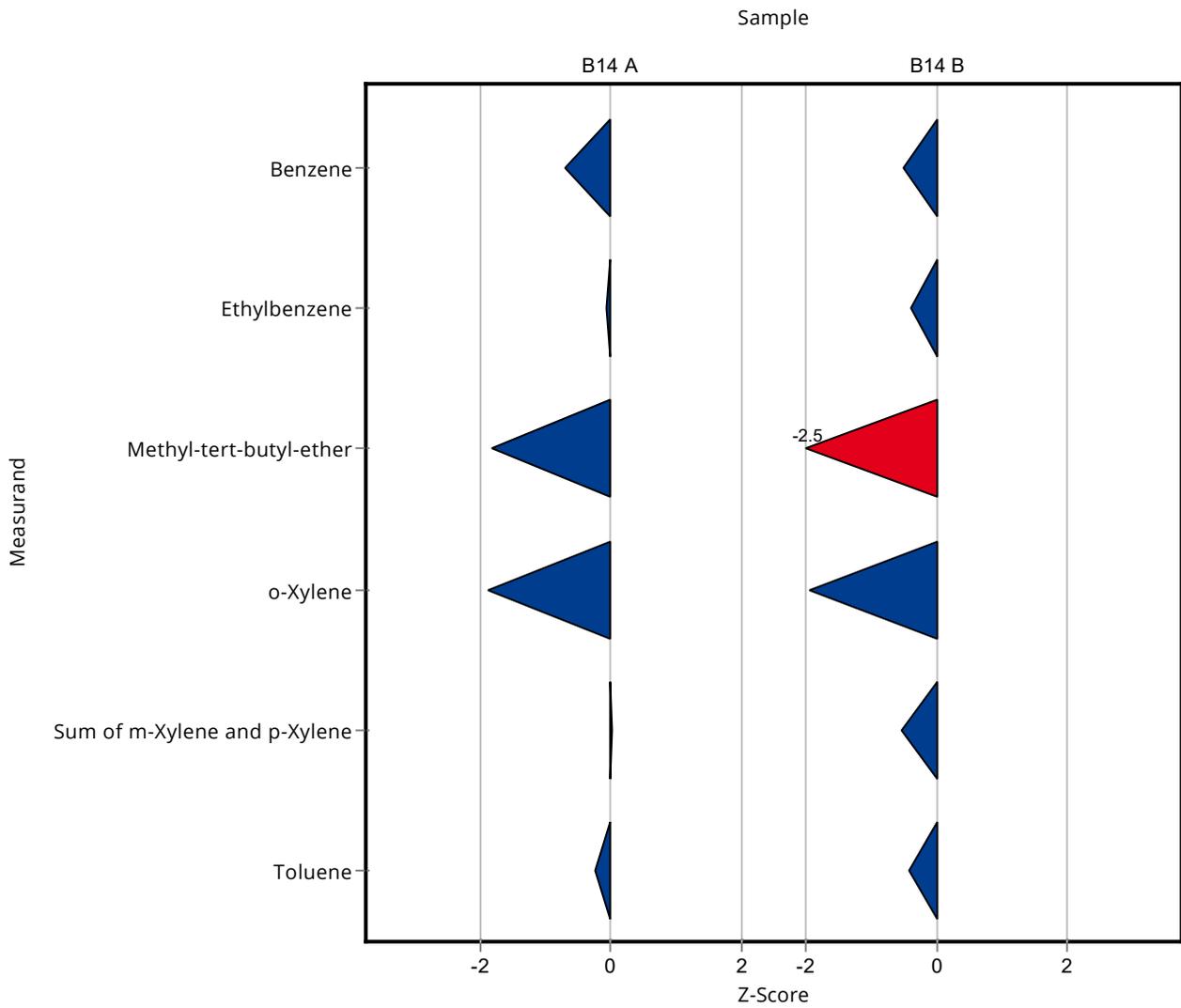


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.04 ± 0.29	0.187	88.9	-0.69
Ethylbenzene	µg/l	1.44 ± 0.102	1.42 ± 0.6	0.288	98.7	-0.07
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.09 ± 0.31	0.247	70.7	-1.83
o-Xylene	µg/l	1.51 ± 0.113	1.08 ± 0.41	0.226	71.6	-1.89
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.73 ± 1.04	0.542	101	0.04
Toluene	µg/l	1.08 ± 0.0828	1.02 ± 0.44	0.237	94.6	-0.24

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	6.17 ± 1.73	1.08	91.8	-0.52
Ethylbenzene	µg/l	6.27 ± 0.421	5.79 ± 2.43	1.25	92.3	-0.39
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	4.27 ± 1.28	0.826	67.2	-2.52
o-Xylene	µg/l	6.5 ± 0.486	4.61 ± 1.75	0.976	70.9	-1.94
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	8.04 ± 3.05	1.8	89.2	-0.54
Toluene	µg/l	6.69 ± 0.56	6.06 ± 2.62	1.47	90.5	-0.43

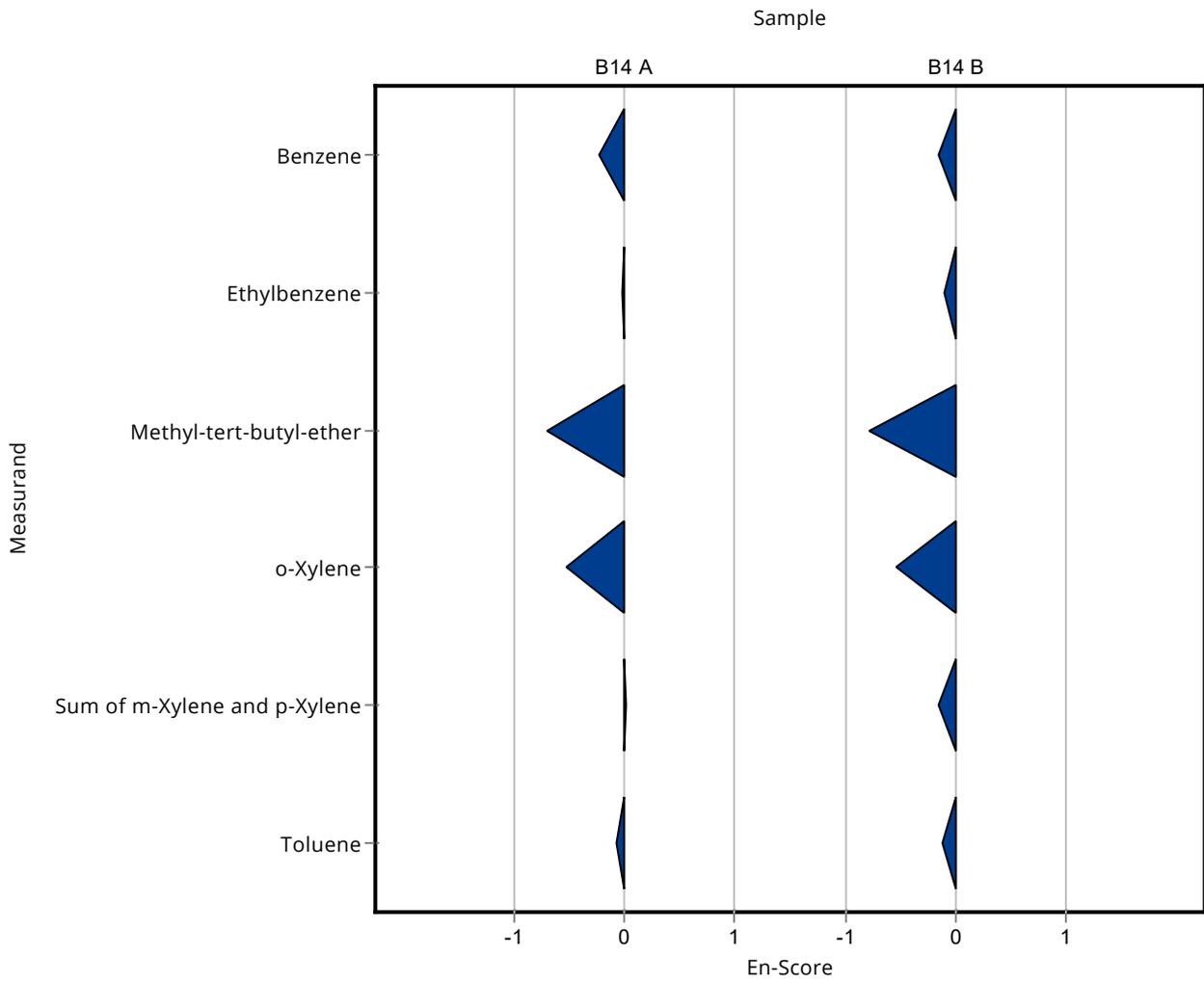


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.04 ± 0.29	0.187	88.9	-0.22
Ethylbenzene	µg/l	1.44 ± 0.102	1.42 ± 0.6	0.288	98.7	-0.02
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.09 ± 0.31	0.247	70.7	-0.71
o-Xylene	µg/l	1.51 ± 0.113	1.08 ± 0.41	0.226	71.6	-0.52
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.73 ± 1.04	0.542	101	0.01
Toluene	µg/l	1.08 ± 0.0828	1.02 ± 0.44	0.237	94.6	-0.07

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	6.17 ± 1.73	1.08	91.8	-0.16
Ethylbenzene	µg/l	6.27 ± 0.421	5.79 ± 2.43	1.25	92.3	-0.10
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	4.27 ± 1.28	0.826	67.2	-0.79
o-Xylene	µg/l	6.5 ± 0.486	4.61 ± 1.75	0.976	70.9	-0.54
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	8.04 ± 3.05	1.8	89.2	-0.16
Toluene	µg/l	6.69 ± 0.56	6.06 ± 2.62	1.47	90.5	-0.12

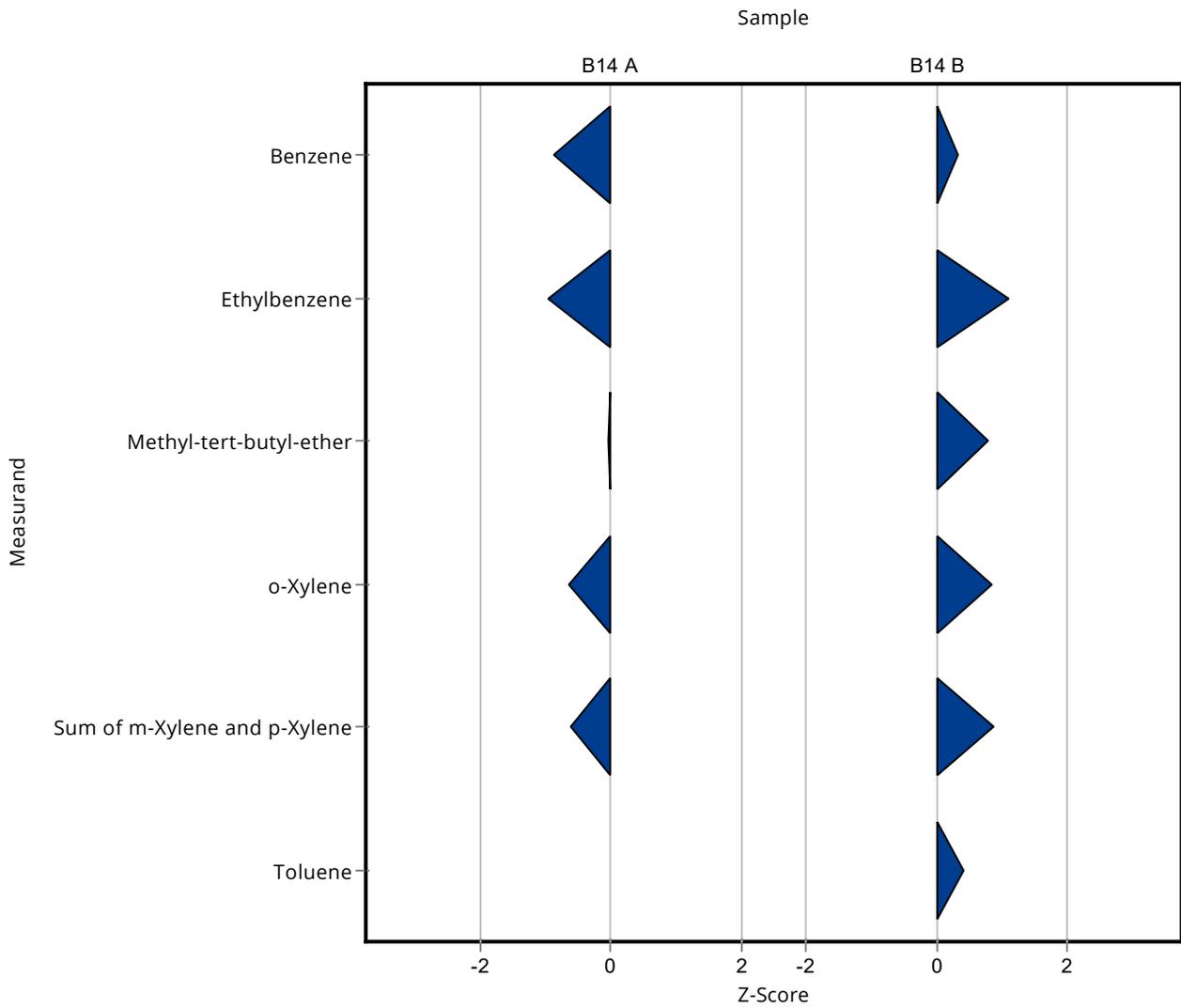


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.006 ± 0.0849	0.187	86	-0.87
Ethylbenzene	µg/l	1.44 ± 0.102	1.165 ± 0.1179	0.288	81	-0.95
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.534 ± 0.1131	0.247	99.5	-0.03
o-Xylene	µg/l	1.51 ± 0.113	1.362 ± 0.174	0.226	90.3	-0.65
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.384 ± 0.1099	0.542	88	-0.60
Toluene	µg/l	1.08 ± 0.0828	<1 (LOQ) ± -	0.237	-	-

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	7.08 ± 0.0849	1.08	105	0.33
Ethylbenzene	µg/l	6.27 ± 0.421	7.669 ± 0.1179	1.25	122	1.11
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	6.99 ± 0.1131	0.826	110	0.77
o-Xylene	µg/l	6.5 ± 0.486	7.327 ± 0.174	0.976	113	0.84
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	10.594 ± 0.1099	1.8	118	0.88
Toluene	µg/l	6.69 ± 0.56	7.312 ± 0.1862	1.47	109	0.42

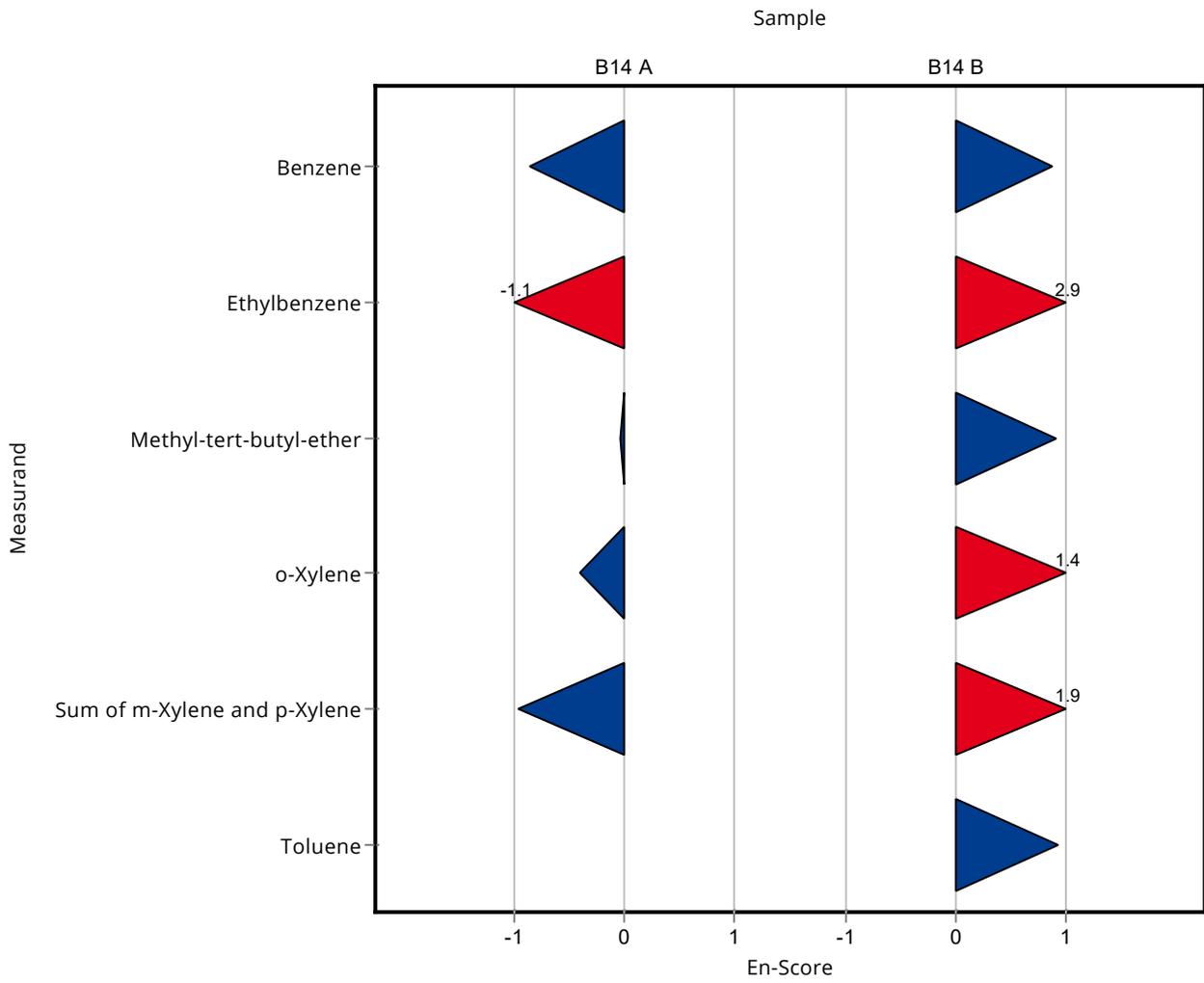


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.006 ± 0.0849	0.187	86	-0.86
Ethylbenzene	µg/l	1.44 ± 0.102	1.165 ± 0.1179	0.288	81	-1.07
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.534 ± 0.1131	0.247	99.5	-0.03
o-Xylene	µg/l	1.51 ± 0.113	1.362 ± 0.174	0.226	90.3	-0.40
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.384 ± 0.1099	0.542	88	-0.95
Toluene	µg/l	1.08 ± 0.0828	<1 (LOQ) ± -	0.237	-	-

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	7.08 ± 0.0849	1.08	105	0.87
Ethylbenzene	µg/l	6.27 ± 0.421	7.669 ± 0.1179	1.25	122	2.89
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	6.99 ± 0.1131	0.826	110	0.91
o-Xylene	µg/l	6.5 ± 0.486	7.327 ± 0.174	0.976	113	1.38
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	10.594 ± 0.1099	1.8	118	1.94
Toluene	µg/l	6.69 ± 0.56	7.312 ± 0.1862	1.47	109	0.92

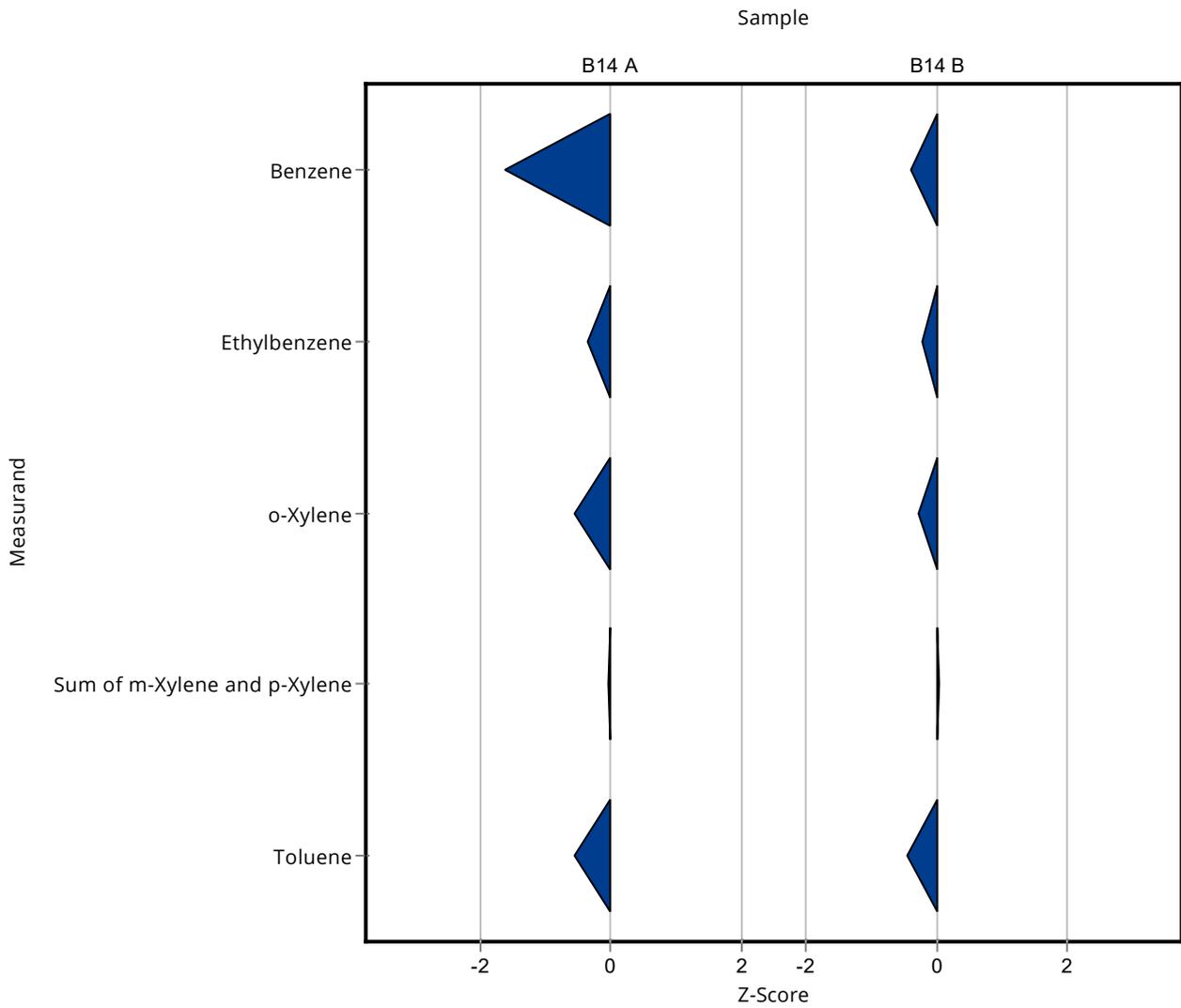


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	0.869 ± 0.053	0.187	74.3	-1.61
Ethylbenzene	µg/l	1.44 ± 0.102	1.34 ± 0.11	0.288	93.1	-0.34
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	1.38 ± 0.1	0.226	91.5	-0.57
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.69 ± 0.16	0.542	99.2	-0.04
Toluene	µg/l	1.08 ± 0.0828	0.945 ± 0.14	0.237	87.7	-0.56

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	6.29 ± 0.38	1.08	93.5	-0.40
Ethylbenzene	µg/l	6.27 ± 0.421	6.01 ± 0.51	1.25	95.8	-0.21
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	6.24 ± 0.46	0.976	95.9	-0.27
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	9.07 ± 0.55	1.8	101	0.03
Toluene	µg/l	6.69 ± 0.56	6.01 ± 0.9	1.47	89.8	-0.46

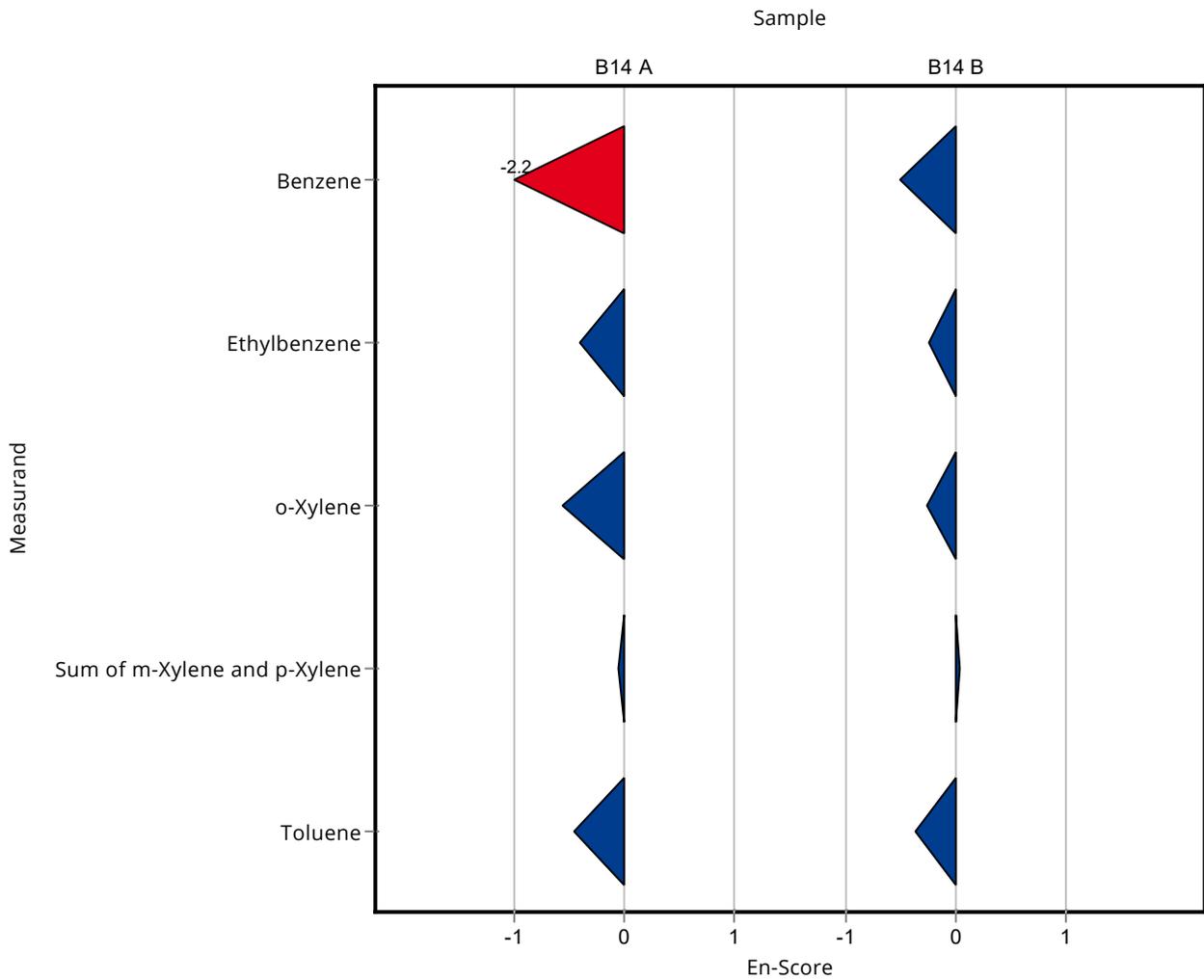


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	0.869 ± 0.053	0.187	74.3	-2.22
Ethylbenzene	µg/l	1.44 ± 0.102	1.34 ± 0.11	0.288	93.1	-0.41
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	1.38 ± 0.1	0.226	91.5	-0.56
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.69 ± 0.16	0.542	99.2	-0.05
Toluene	µg/l	1.08 ± 0.0828	0.945 ± 0.14	0.237	87.7	-0.46

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	6.29 ± 0.38	1.08	93.5	-0.51
Ethylbenzene	µg/l	6.27 ± 0.421	6.01 ± 0.51	1.25	95.8	-0.24
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	6.24 ± 0.46	0.976	95.9	-0.25
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	9.07 ± 0.55	1.8	101	0.04
Toluene	µg/l	6.69 ± 0.56	6.01 ± 0.9	1.47	89.8	-0.36

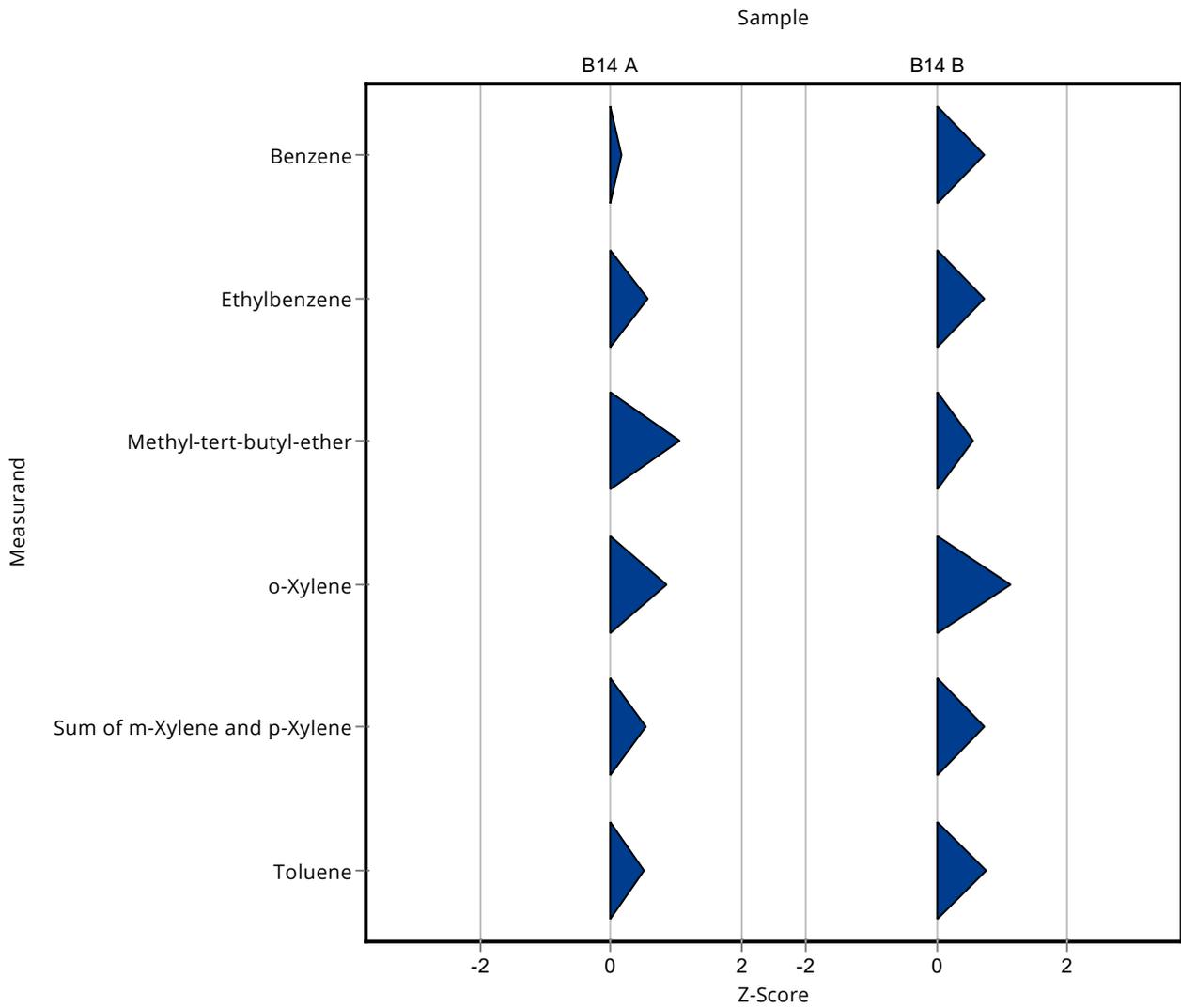


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.2 ± 0.22	0.187	103	0.16
Ethylbenzene	µg/l	1.44 ± 0.102	1.6 ± 0.29	0.288	111	0.56
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.8 ± 0.32	0.247	117	1.05
o-Xylene	µg/l	1.51 ± 0.113	1.7 ± 0.31	0.226	113	0.85
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	3 ± 0.54	0.542	111	0.53
Toluene	µg/l	1.08 ± 0.0828	1.2 ± 0.22	0.237	111	0.51

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	7.5 ± 1.35	1.08	112	0.72
Ethylbenzene	µg/l	6.27 ± 0.421	7.2 ± 1.3	1.25	115	0.74
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	6.8 ± 1.22	0.826	107	0.54
o-Xylene	µg/l	6.5 ± 0.486	7.6 ± 1.37	0.976	117	1.12
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	10.3 ± 1.85	1.8	114	0.71
Toluene	µg/l	6.69 ± 0.56	7.8 ± 1.4	1.47	117	0.75

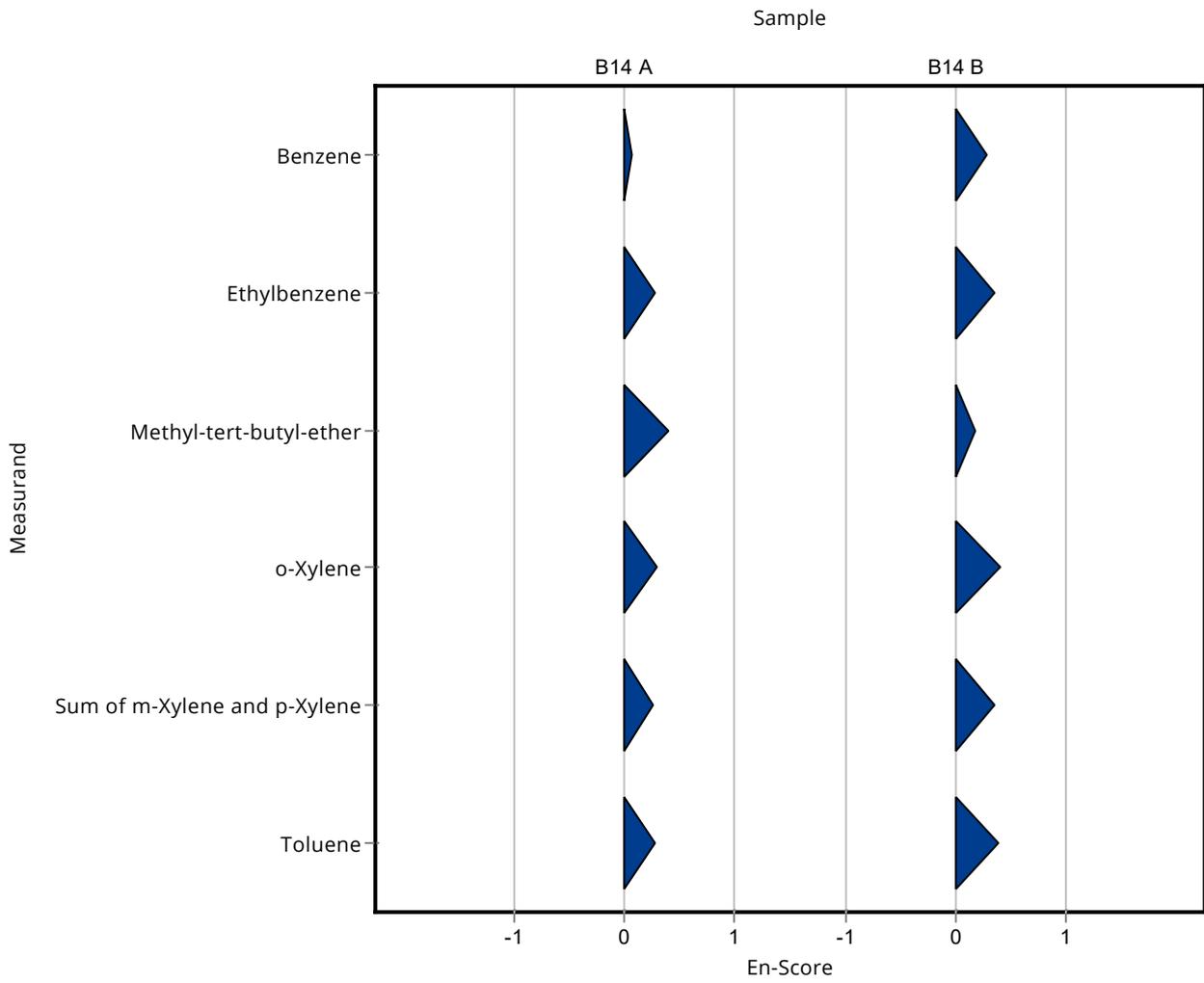


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.2 ± 0.22	0.187	103	0.07
Ethylbenzene	µg/l	1.44 ± 0.102	1.6 ± 0.29	0.288	111	0.27
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.8 ± 0.32	0.247	117	0.39
o-Xylene	µg/l	1.51 ± 0.113	1.7 ± 0.31	0.226	113	0.30
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	3 ± 0.54	0.542	111	0.26
Toluene	µg/l	1.08 ± 0.0828	1.2 ± 0.22	0.237	111	0.27

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	7.5 ± 1.35	1.08	112	0.28
Ethylbenzene	µg/l	6.27 ± 0.421	7.2 ± 1.3	1.25	115	0.35
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	6.8 ± 1.22	0.826	107	0.18
o-Xylene	µg/l	6.5 ± 0.486	7.6 ± 1.37	0.976	117	0.39
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	10.3 ± 1.85	1.8	114	0.34
Toluene	µg/l	6.69 ± 0.56	7.8 ± 1.4	1.47	117	0.39

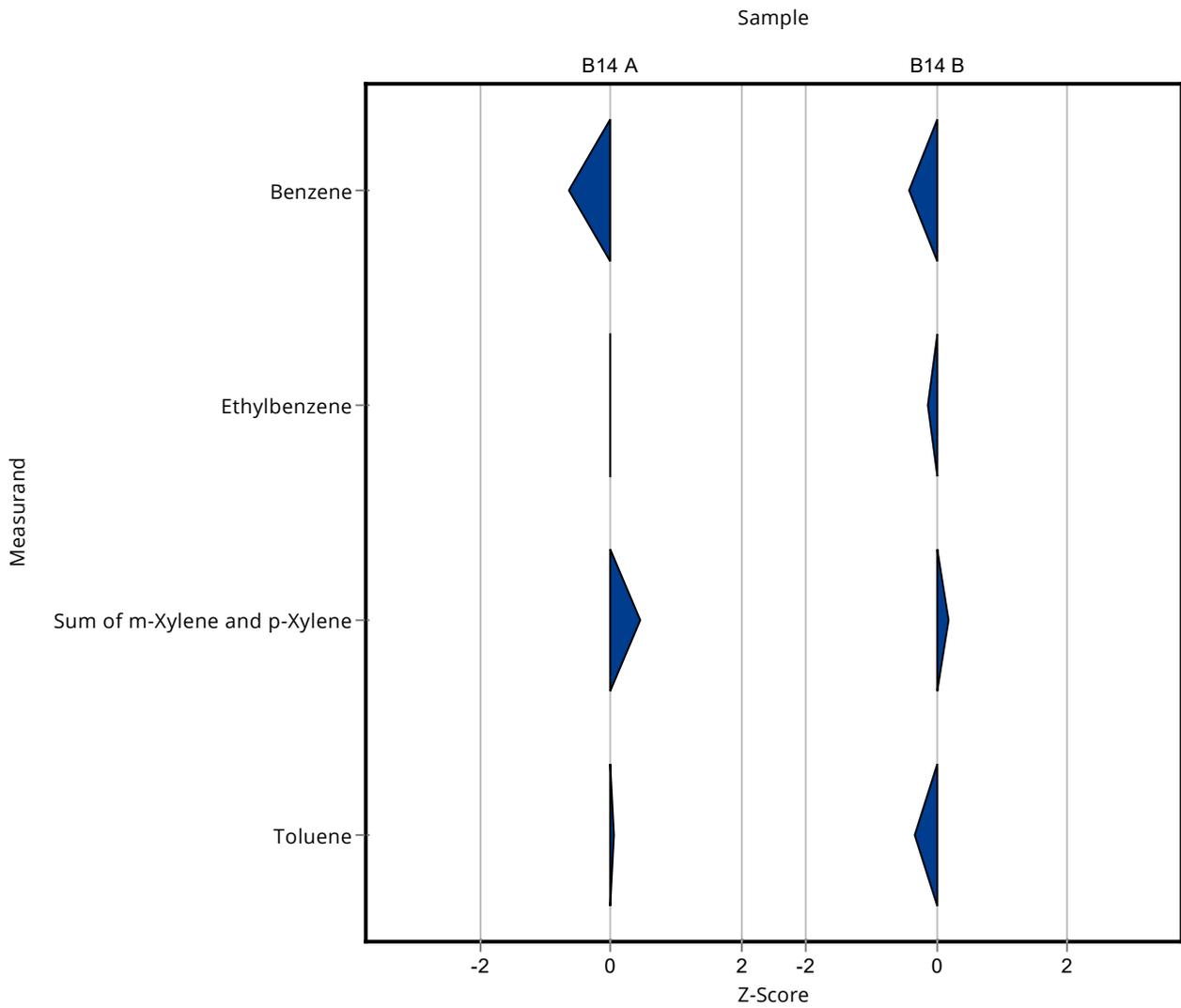


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.048 ± 0.367	0.187	89.6	-0.65
Ethylbenzene	µg/l	1.44 ± 0.102	1.433 ± 0.501	0.288	99.6	-0.02
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	- ± -	0.226	-	-
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.965 ± 1.038	0.542	109	0.47
Toluene	µg/l	1.08 ± 0.0828	1.092 ± 0.382	0.237	101	0.06

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	6.275 ± 2.196	1.08	93.3	-0.42
Ethylbenzene	µg/l	6.27 ± 0.421	6.117 ± 2.141	1.25	97.5	-0.13
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	- ± -	0.976	-	-
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	9.331 ± 3.266	1.8	104	0.18
Toluene	µg/l	6.69 ± 0.56	6.212 ± 2.174	1.47	92.8	-0.33

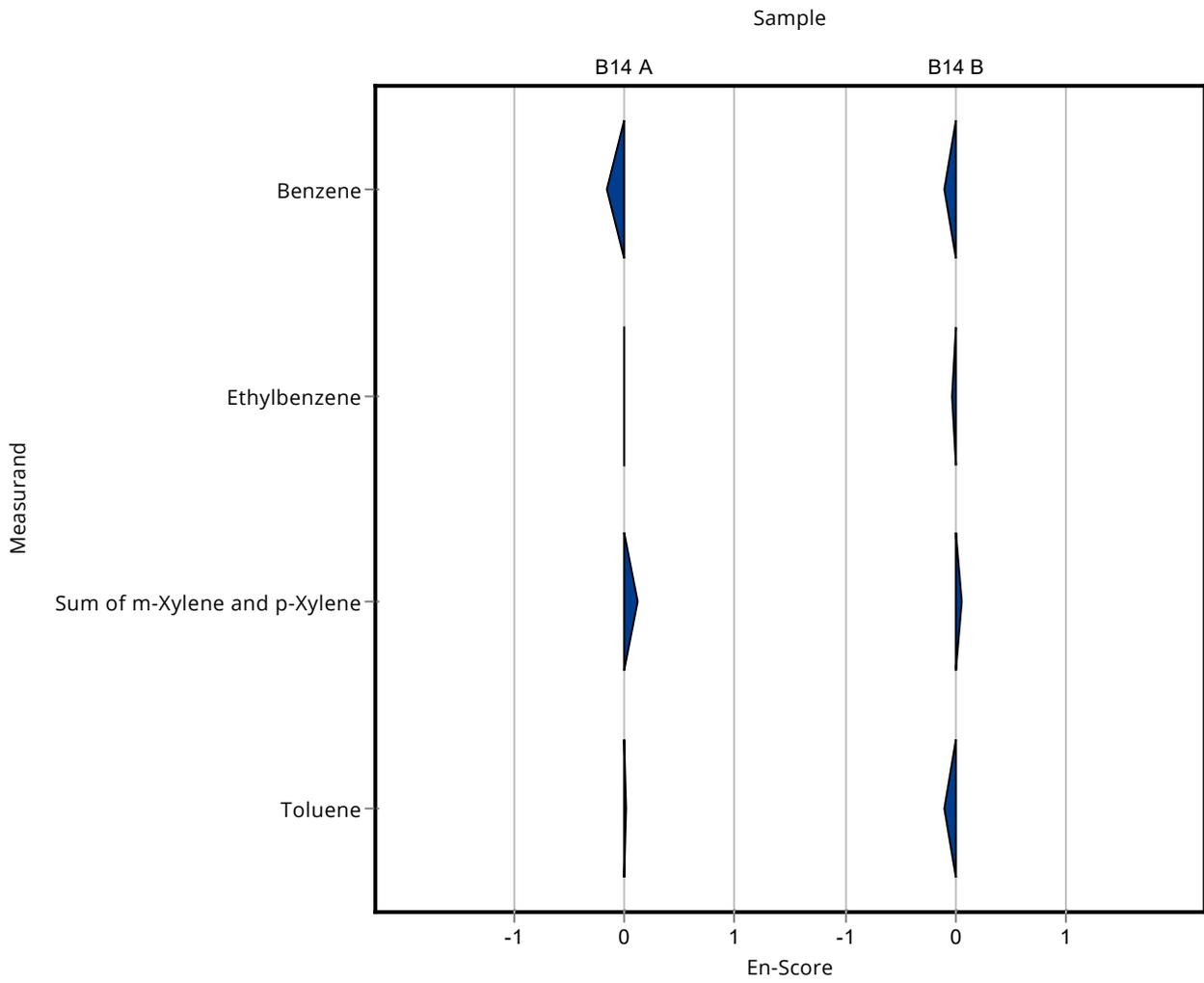


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.048 ± 0.367	0.187	89.6	-0.16
Ethylbenzene	µg/l	1.44 ± 0.102	1.433 ± 0.501	0.288	99.6	-0.01
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	- ± -	0.226	-	-
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.965 ± 1.038	0.542	109	0.12
Toluene	µg/l	1.08 ± 0.0828	1.092 ± 0.382	0.237	101	0.02

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	6.275 ± 2.196	1.08	93.3	-0.10
Ethylbenzene	µg/l	6.27 ± 0.421	6.117 ± 2.141	1.25	97.5	-0.04
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	- ± -	0.976	-	-
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	9.331 ± 3.266	1.8	104	0.05
Toluene	µg/l	6.69 ± 0.56	6.212 ± 2.174	1.47	92.8	-0.11

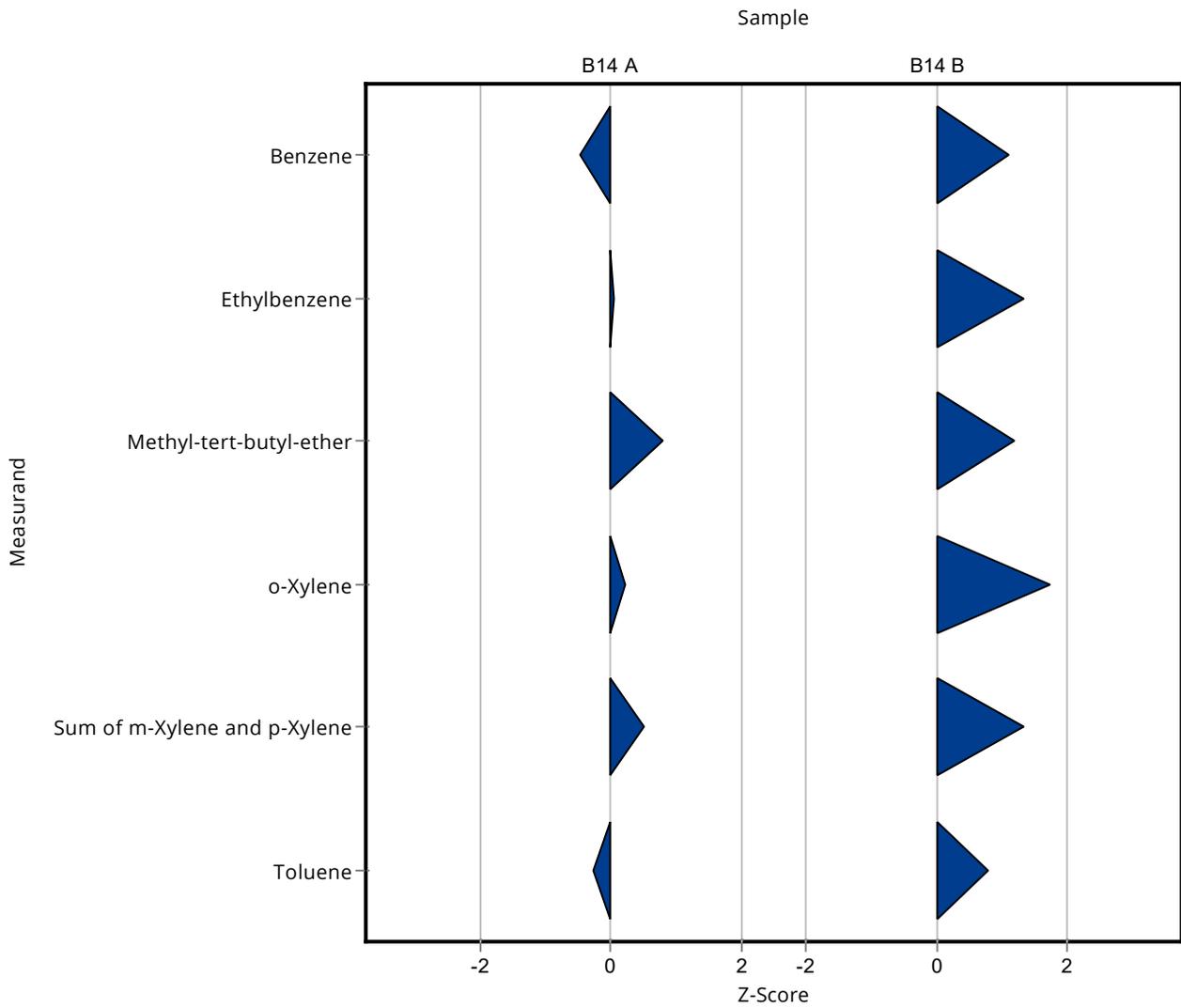


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.08 ± 0.13	0.187	92.3	-0.48
Ethylbenzene	µg/l	1.44 ± 0.102	1.455 ± 0.17	0.288	101	0.06
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.74 ± 0.25	0.247	113	0.81
o-Xylene	µg/l	1.51 ± 0.113	1.56 ± 0.19	0.226	103	0.23
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.99 ± 0.35	0.542	110	0.52
Toluene	µg/l	1.08 ± 0.0828	1.016 ± 0.12	0.237	94.2	-0.26

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	7.91 ± 0.95	1.08	118	1.10
Ethylbenzene	µg/l	6.27 ± 0.421	7.96 ± 0.95	1.25	127	1.34
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	7.326 ± 1	0.826	115	1.18
o-Xylene	µg/l	6.5 ± 0.486	8.2 ± 0.9	0.976	126	1.74
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	11.4 ± 1.2	1.8	126	1.32
Toluene	µg/l	6.69 ± 0.56	7.86 ± 0.95	1.47	117	0.79

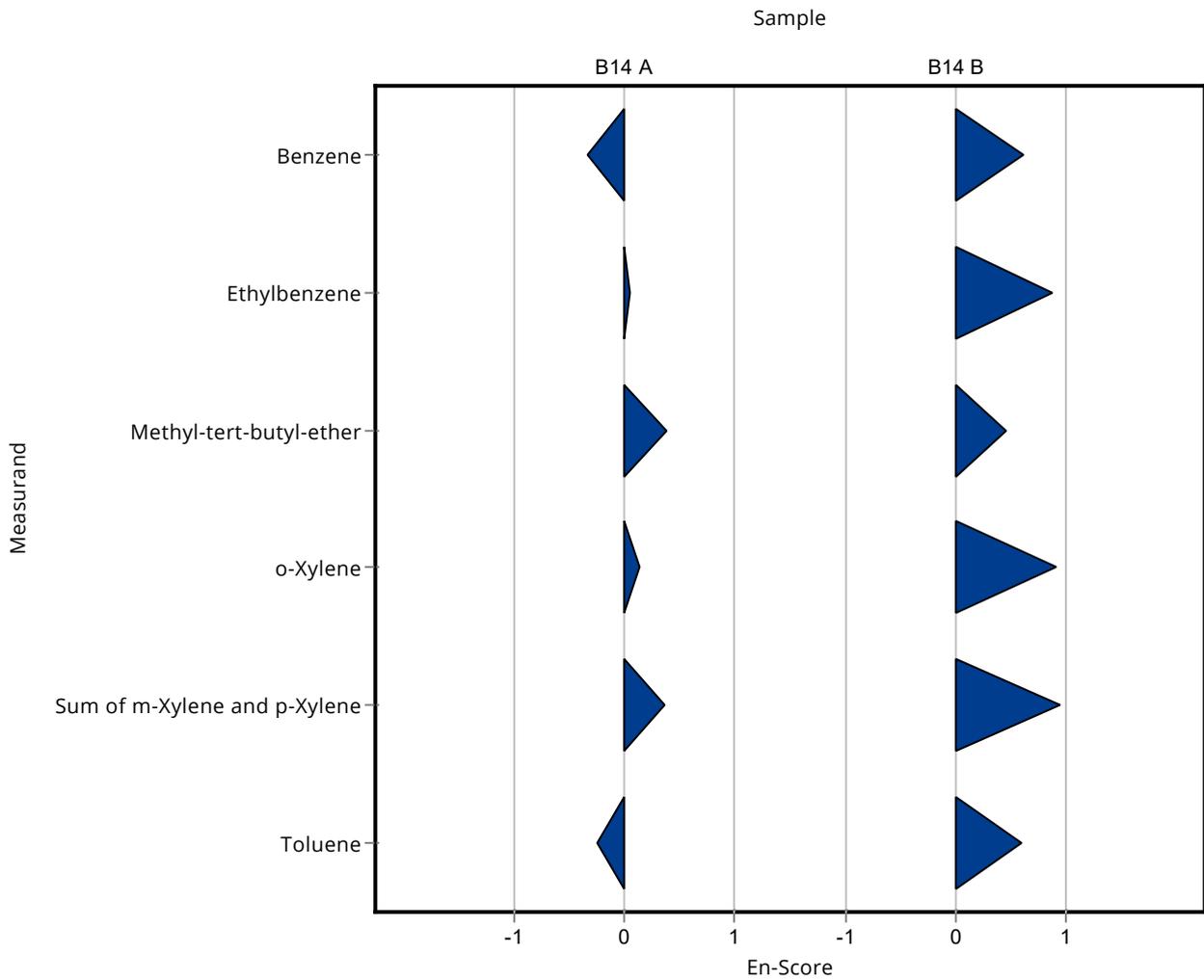


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.08 ± 0.13	0.187	92.3	-0.33
Ethylbenzene	µg/l	1.44 ± 0.102	1.455 ± 0.17	0.288	101	0.05
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	1.74 ± 0.25	0.247	113	0.38
o-Xylene	µg/l	1.51 ± 0.113	1.56 ± 0.19	0.226	103	0.13
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	2.99 ± 0.35	0.542	110	0.37
Toluene	µg/l	1.08 ± 0.0828	1.016 ± 0.12	0.237	94.2	-0.24

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	7.91 ± 0.95	1.08	118	0.61
Ethylbenzene	µg/l	6.27 ± 0.421	7.96 ± 0.95	1.25	127	0.87
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	7.326 ± 1	0.826	115	0.46
o-Xylene	µg/l	6.5 ± 0.486	8.2 ± 0.9	0.976	126	0.91
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	11.4 ± 1.2	1.8	126	0.95
Toluene	µg/l	6.69 ± 0.56	7.86 ± 0.95	1.47	117	0.59

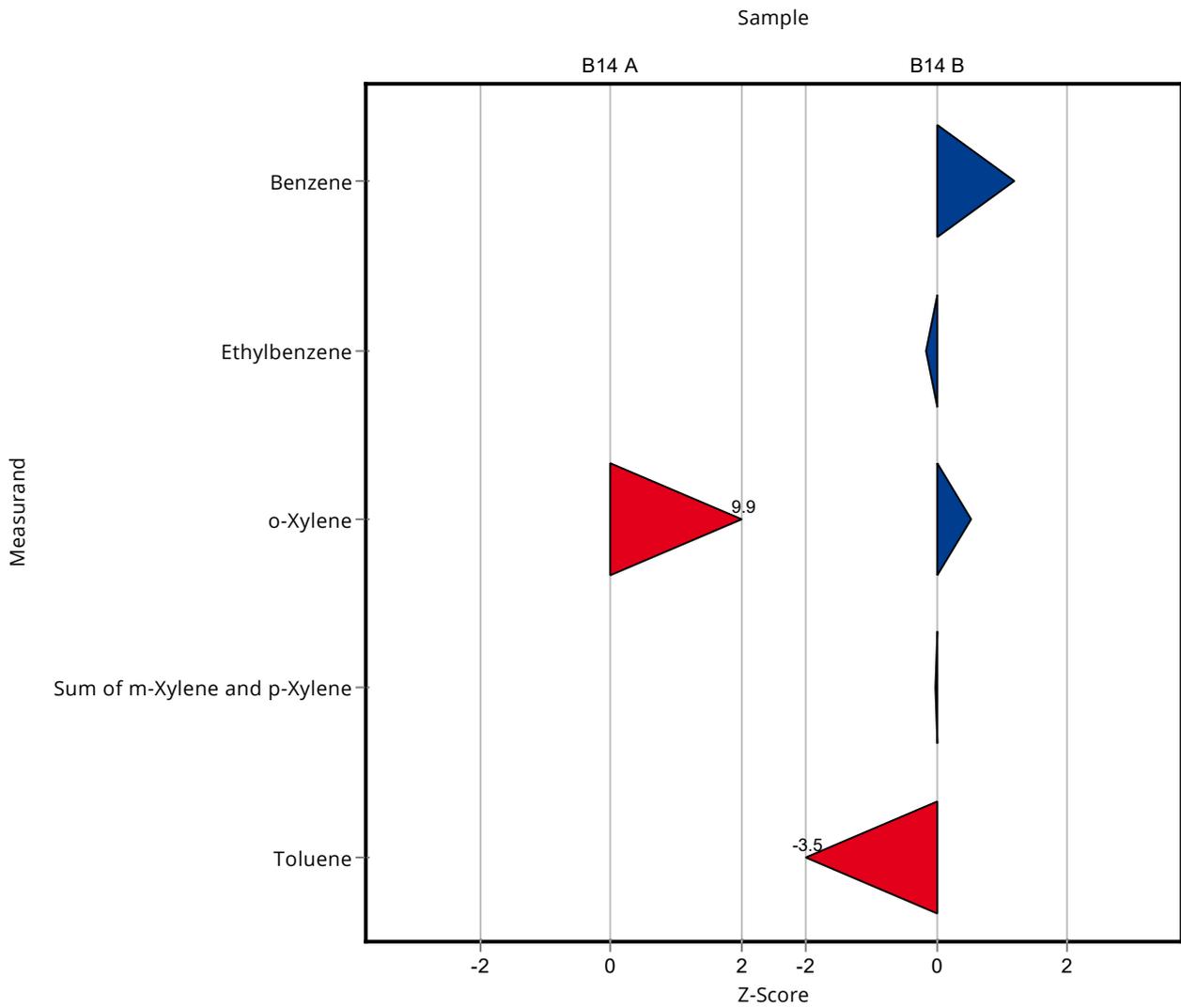


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	<0.25 (LOQ) ± -	0.187	-	-
Ethylbenzene	µg/l	1.44 ± 0.102	<0.25 (LOQ) ± -	0.288	-	-
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	3.74 ± 0.3	0.226	248	9.87
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	<0.5 (LOQ) ± -	0.542	-	-
Toluene	µg/l	1.08 ± 0.0828	<0.25 (LOQ) ± -	0.237	-	-

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	8.01 ± 0.6	1.08	119	1.20
Ethylbenzene	µg/l	6.27 ± 0.421	6.07 ± 0.6	1.25	96.7	-0.16
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	7.02 ± 0.6	0.976	108	0.53
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	8.96 ± 0.6	1.8	99.4	-0.03
Toluene	µg/l	6.69 ± 0.56	1.47 ± 0.6	1.47	22	-3.55

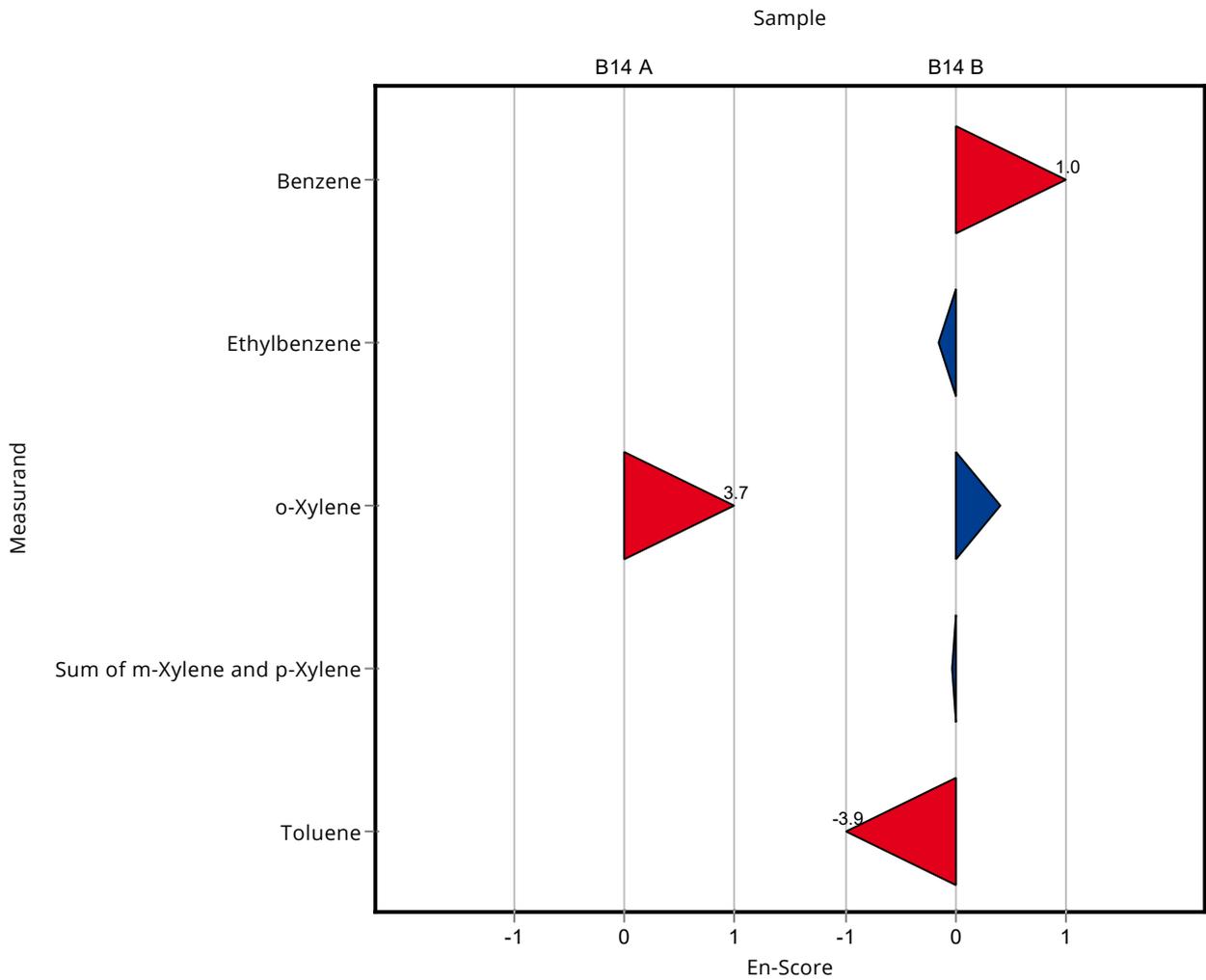


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	<0.25 (LOQ) ± -	0.187	-	-
Ethylbenzene	µg/l	1.44 ± 0.102	<0.25 (LOQ) ± -	0.288	-	-
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	3.74 ± 0.3	0.226	248	3.66
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	<0.5 (LOQ) ± -	0.542	-	-
Toluene	µg/l	1.08 ± 0.0828	<0.25 (LOQ) ± -	0.237	-	-

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	8.01 ± 0.6	1.08	119	1.02
Ethylbenzene	µg/l	6.27 ± 0.421	6.07 ± 0.6	1.25	96.7	-0.16
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	7.02 ± 0.6	0.976	108	0.40
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	8.96 ± 0.6	1.8	99.4	-0.04
Toluene	µg/l	6.69 ± 0.56	1.47 ± 0.6	1.47	22	-3.94

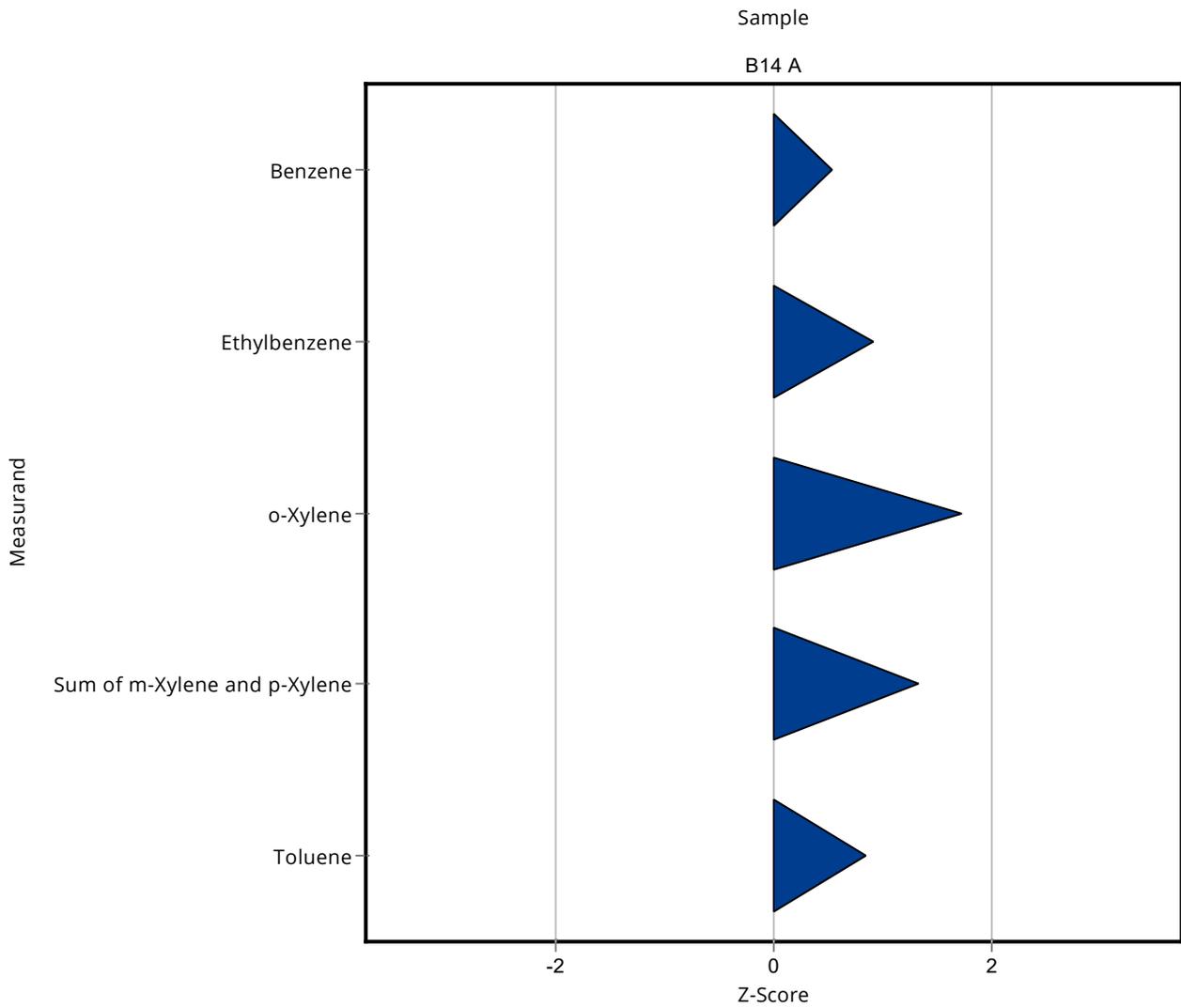


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.27 ± 0.028	0.187	109	0.54
Ethylbenzene	µg/l	1.44 ± 0.102	1.7 ± 0.02	0.288	118	0.91
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	1.9 ± 0.091	0.226	126	1.73
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	3.43 ± 0.068	0.542	127	1.33
Toluene	µg/l	1.08 ± 0.0828	1.28 ± 0.067	0.237	119	0.85

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	- ± -	1.08	-	-
Ethylbenzene	µg/l	6.27 ± 0.421	- ± -	1.25	-	-
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	- ± -	0.976	-	-
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	- ± -	1.8	-	-
Toluene	µg/l	6.69 ± 0.56	- ± -	1.47	-	-

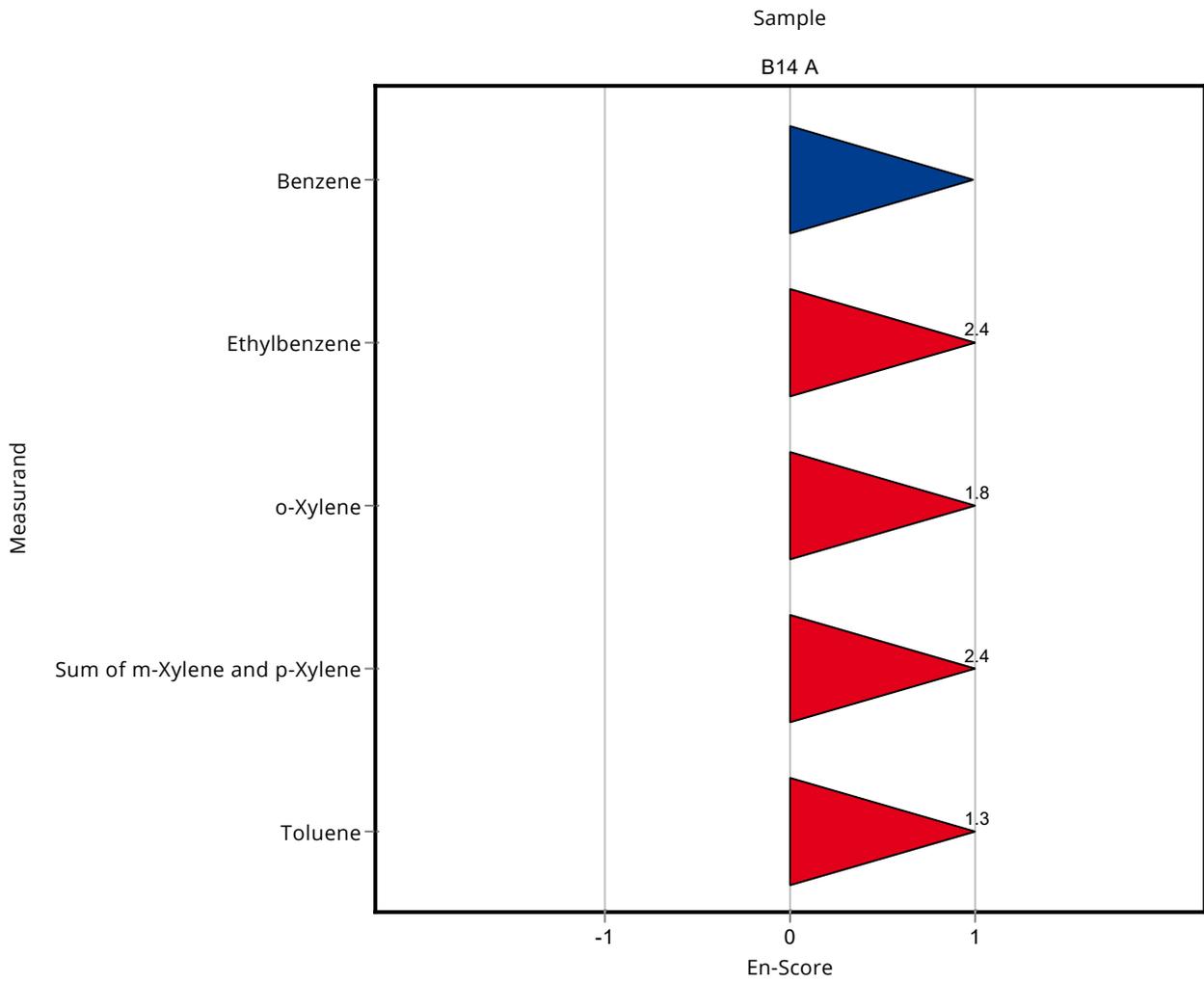


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.27 ± 0.028	0.187	109	0.99
Ethylbenzene	µg/l	1.44 ± 0.102	1.7 ± 0.02	0.288	118	2.39
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	1.9 ± 0.091	0.226	126	1.83
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	3.43 ± 0.068	0.542	127	2.42
Toluene	µg/l	1.08 ± 0.0828	1.28 ± 0.067	0.237	119	1.28

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	- ± -	1.08	-	-
Ethylbenzene	µg/l	6.27 ± 0.421	- ± -	1.25	-	-
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	- ± -	0.976	-	-
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	- ± -	1.8	-	-
Toluene	µg/l	6.69 ± 0.56	- ± -	1.47	-	-

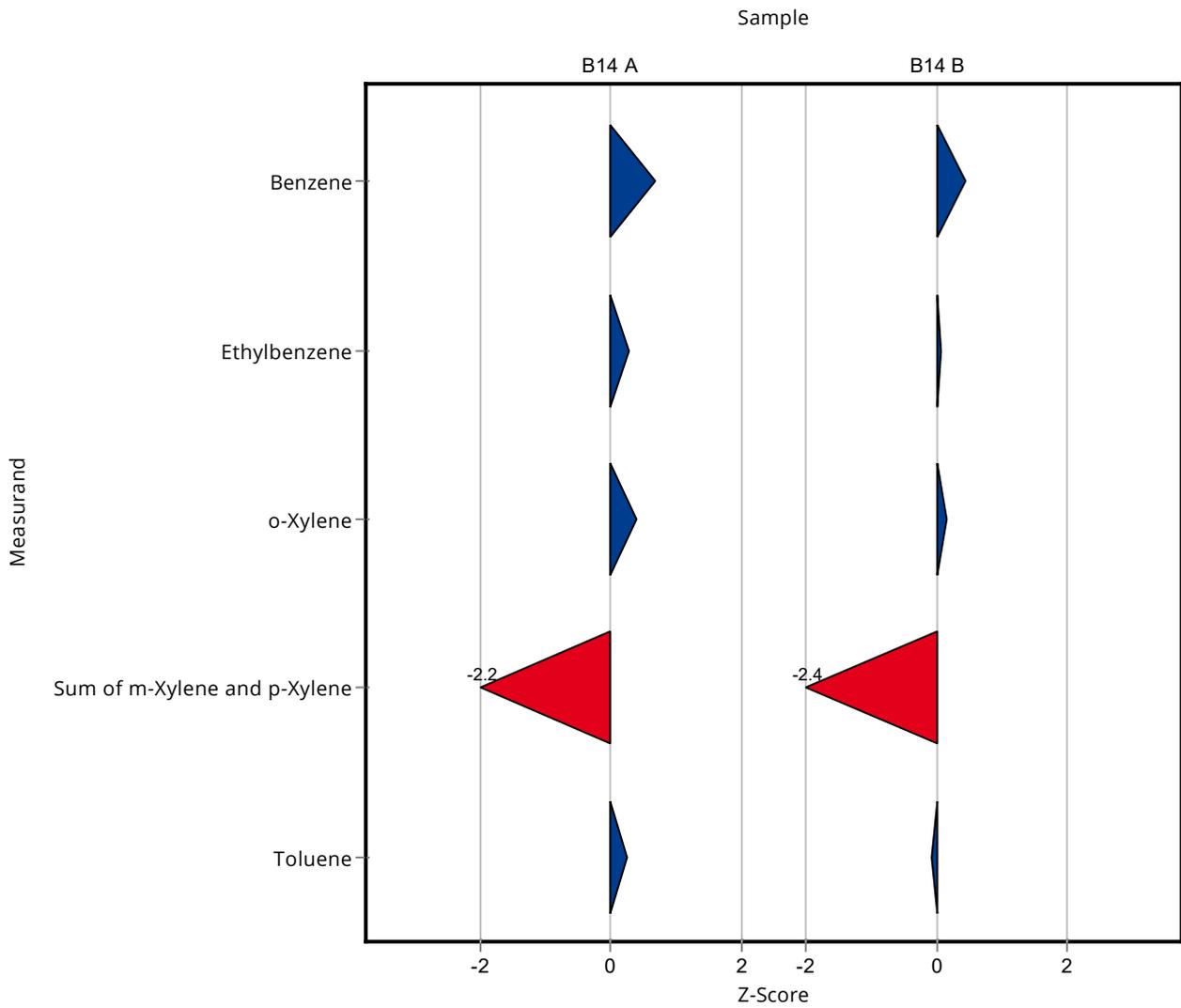


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	1.17 ± 0.0842	1.3 ± 0.18	0.187	111	0.70
Ethylbenzene	µg/l	1.44 ± 0.102	1.52 ± 0.32	0.288	106	0.28
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	1.6 ± 0.32	0.226	106	0.41
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	1.54 ± 0.31	0.542	56.8	-2.16
Toluene	µg/l	1.08 ± 0.0828	1.14 ± 0.24	0.237	106	0.26

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/l	6.72 ± 0.372	7.19 ± 1	1.08	107	0.43
Ethylbenzene	µg/l	6.27 ± 0.421	6.36 ± 1.35	1.25	101	0.07
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	6.64 ± 1.33	0.976	102	0.14
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	4.62 ± 0.92	1.8	51.3	-2.44
Toluene	µg/l	6.69 ± 0.56	6.58 ± 1.37	1.47	98.3	-0.08

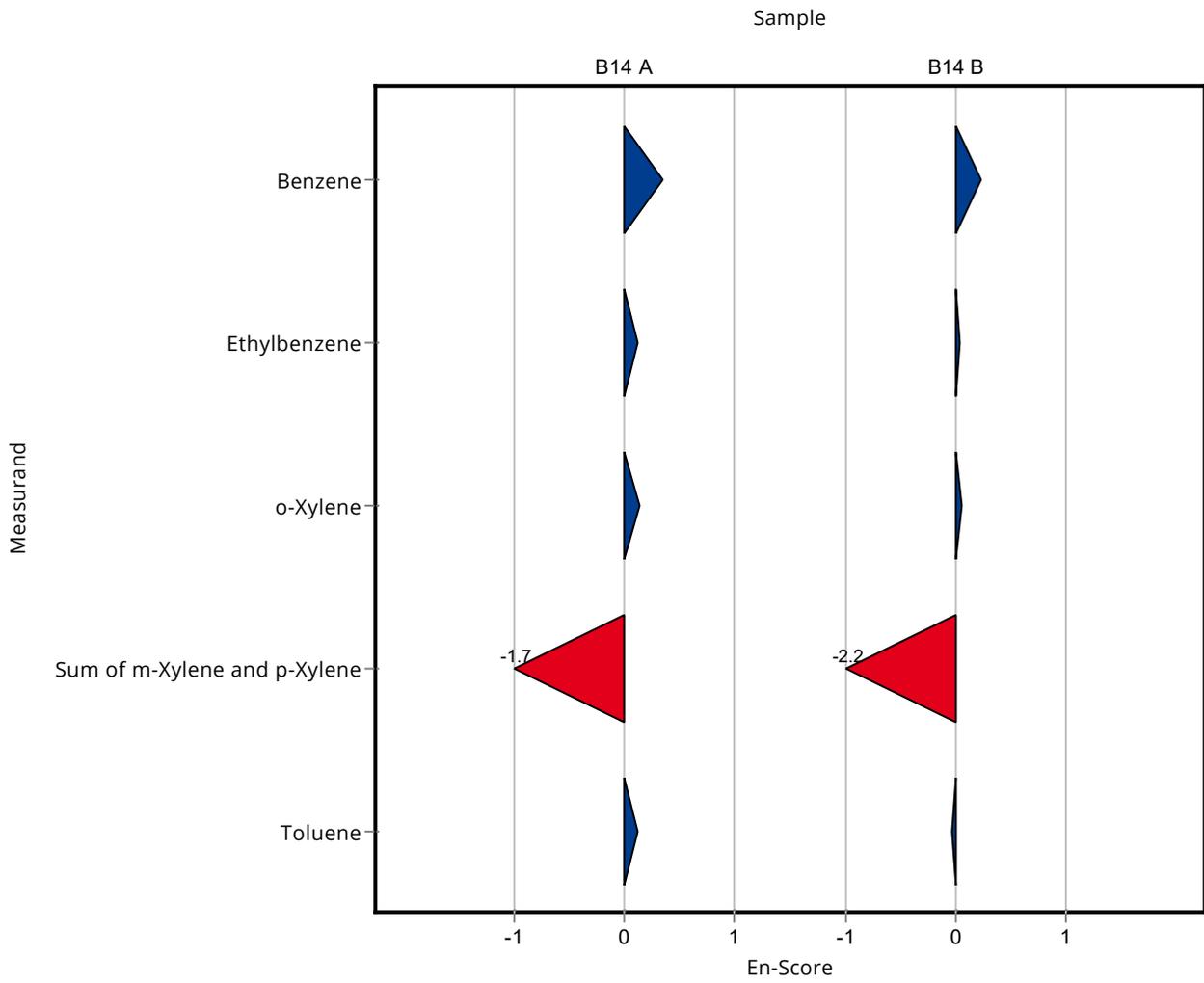


Sample: B14A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	1.17 ± 0.0842	1.3 ± 0.18	0.187	111	0.35
Ethylbenzene	µg/l	1.44 ± 0.102	1.52 ± 0.32	0.288	106	0.13
Methyl-tert-butyl-ether	µg/l	1.54 ± 0.156	- ± -	0.247	-	-
o-Xylene	µg/l	1.51 ± 0.113	1.6 ± 0.32	0.226	106	0.14
Sum of m-Xylene and p-Xylene	µg/l	2.71 ± 0.264	1.54 ± 0.31	0.542	56.8	-1.74
Toluene	µg/l	1.08 ± 0.0828	1.14 ± 0.24	0.237	106	0.13

Sample: B14B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/l	6.72 ± 0.372	7.19 ± 1	1.08	107	0.23
Ethylbenzene	µg/l	6.27 ± 0.421	6.36 ± 1.35	1.25	101	0.03
Methyl-tert-butyl-ether	µg/l	6.35 ± 0.663	- ± -	0.826	-	-
o-Xylene	µg/l	6.5 ± 0.486	6.64 ± 1.33	0.976	102	0.05
Sum of m-Xylene and p-Xylene	µg/l	9.01 ± 0.786	4.62 ± 0.92	1.8	51.3	-2.20
Toluene	µg/l	6.69 ± 0.56	6.58 ± 1.37	1.47	98.3	-0.04



## E9. Methodenübersicht / Overview of methods

LabCode	Sample	Benzene	Toluene	Ethylbenzene
LC0001	B14A	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43
LC0002	B14A	HS-GC-MS; EN ISO 20595	HS-GC-MS; EN ISO 20595	HS-GC-MS; EN ISO 20595
LC0003	B14A	P&T-GC; EN ISO 15680	P&T-GC; EN ISO 15680	P&T-GC; EN ISO 15680
LC0004	B14A	HS-GC; DIN 38407-9	HS-GC; DIN 38407-9	HS-GC; DIN 38407-9
LC0005	B14A	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43
LC0006	B14A	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B
LC0007	B14A	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43
LC0008	B14A	GC-MS;	GC-MS;	GC-MS;
LC0009	B14A	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B
LC0010	B14A			
LC0011	B14A	P&T-GC-MS; DIN 15680; F19	P&T-GC-MS; DIN 15680; F19	P&T-GC-MS; DIN 15680; F19
LC0012	B14A	HS-GC; EN ISO 10301; F4	HS-GC; EN ISO 10301; F4	HS-GC; EN ISO 10301; F4
LC0013	B14A	HS-GC-MS; DIN 38407-43; F43	HS-GC-MS; DIN 38407-43; F43	HS-GC-MS; DIN 38407-43; F43
LC0014	B14A	GC-MS; DIN 38407-9	GC-MS; DIN 38407-9	GC-MS; DIN 38407-9
LC0015	B14A	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43
LC0016	B14A	HS-GC-MS;	HS-GC-MS;	HS-GC-MS;
LC0017	B14A	HS-GC; DIN 38407; F5 and F9	HS-GC; DIN 38407; F5 and F9	HS-GC; DIN 38407; F5 and F9
LC0018	B14A	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43
LC0019	B14A	P&T-GC; EN ISO 15680	P&T-GC; EN ISO 15680	P&T-GC; EN ISO 15680
LC0020	B14A	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43

LabCode	Sample	o-Xylene	Sum of m-Xylene and p-Xylene	Methyl-tert-butyl-ether
LC0001	B14A	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43
LC0002	B14A	HS-GC-MS; EN ISO 20595	HS-GC-MS; EN ISO 20595	HS-GC-MS; EN ISO 20595
LC0003	B14A	P&T-GC; EN ISO 15680	P&T-GC; EN ISO 15680	P&T-GC; EN ISO 15680
LC0004	B14A	HS-GC; DIN 38407-9	HS-GC; DIN 38407-9	
LC0005	B14A	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43
LC0006	B14A	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B
LC0007	B14A	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43	GC-MS; DIN 38407-9
LC0008	B14A	GC-MS;	GC-MS;	
LC0009	B14A	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B
LC0010	B14A			
LC0011	B14A	P&T-GC-MS; DIN 15680; F19	P&T-GC-MS; DIN 15680; F19	
LC0012	B14A	HS-GC; EN ISO 10301; F4	HS-GC; EN ISO 10301; F4	HS-GC; EN ISO 10301; F4
LC0013	B14A	HS-GC-MS; DIN 38407-43; F43	HS-GC-MS; DIN 38407-43; F43	HS-GC-MS; DIN 38407-43; F43
LC0014	B14A	GC-MS; DIN 38407-9	GC-MS; DIN 38407-9	
LC0015	B14A	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43
LC0016	B14A		HS-GC-MS;	
LC0017	B14A	HS-GC; DIN 38407; F5 and F9	HS-GC; DIN 38407; F5 and F9	HS-GC; DIN 38407; F5 and F9
LC0018	B14A	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43	
LC0019	B14A	P&T-GC; EN ISO 15680	P&T-GC; EN ISO 15680	
LC0020	B14A	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43	

LabCode	Sample	Benzene	Toluene	Ethylbenzene
LC0001	B14B	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43
LC0002	B14B	HS-GC-MS; EN ISO 20595	HS-GC-MS; EN ISO 20595	HS-GC-MS; EN ISO 20595
LC0003	B14B	P&T-GC; EN ISO 15680	P&T-GC; EN ISO 15680	P&T-GC; EN ISO 15680
LC0004	B14B	HS-GC; DIN 38407-9	HS-GC; DIN 38407-9	HS-GC; DIN 38407-9
LC0005	B14B	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43
LC0006	B14B	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B
LC0007	B14B	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43
LC0008	B14B	GC-MS;	GC-MS;	GC-MS;
LC0009	B14B	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B
LC0010	B14B			
LC0011	B14B	P&T-GC-MS; DIN 15680; F19	P&T-GC-MS; DIN 15680; F19	P&T-GC-MS; DIN 15680; F19
LC0012	B14B	HS-GC; EN ISO 10301; F4	HS-GC; EN ISO 10301; F4	HS-GC; EN ISO 10301; F4
LC0013	B14B	HS-GC-MS; DIN 38407-43; F43	HS-GC-MS; DIN 38407-43; F43	HS-GC-MS; DIN 38407-43; F43
LC0014	B14B	GC-MS; DIN 38407-9	GC-MS; DIN 38407-9	GC-MS; DIN 38407-9
LC0015	B14B	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43
LC0016	B14B	HS-GC-MS;	HS-GC-MS;	HS-GC-MS;
LC0017	B14B	HS-GC; DIN 38407; F5 and F9	HS-GC; DIN 38407; F5 and F9	HS-GC; DIN 38407; F5 and F9
LC0018	B14B	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43
LC0019	B14B			
LC0020	B14B	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43

LabCode	Sample	o-Xylene	Sum of m-Xylene and p-Xylene	Methyl-tert-butyl-ether
LC0001	B14B	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43
LC0002	B14B	HS-GC-MS; EN ISO 20595	HS-GC-MS; EN ISO 20595	HS-GC-MS; EN ISO 20595
LC0003	B14B	P&T-GC; EN ISO 15680	P&T-GC; EN ISO 15680	P&T-GC; EN ISO 15680
LC0004	B14B	HS-GC; DIN 38407-9	HS-GC; DIN 38407-9	
LC0005	B14B	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43
LC0006	B14B	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B
LC0007	B14B	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43	GC-MS; DIN 38407-9
LC0008	B14B	GC-MS;	GC-MS;	
LC0009	B14B	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B	P&T-GC-MS; APHA 6200 B
LC0010	B14B			
LC0011	B14B	P&T-GC-MS; DIN 15680; F19	P&T-GC-MS; DIN 15680; F19	
LC0012	B14B	HS-GC; EN ISO 10301; F4	HS-GC; EN ISO 10301; F4	HS-GC; EN ISO 10301; F4
LC0013	B14B	HS-GC-MS; DIN 38407-43; F43	HS-GC-MS; DIN 38407-43; F43	HS-GC-MS; DIN 38407-43; F43
LC0014	B14B	GC-MS; DIN 38407-9	GC-MS; DIN 38407-9	
LC0015	B14B	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43
LC0016	B14B		HS-GC-MS;	
LC0017	B14B	HS-GC; DIN 38407; F5 and F9	HS-GC; DIN 38407; F5 and F9	HS-GC; DIN 38407; F5 and F9
LC0018	B14B	HS-GC-MS; DIN 38407-43	HS-GC-MS; DIN 38407-43	
LC0019	B14B			
LC0020	B14B	HS-GC-MS; DIN 38407; F43	HS-GC-MS; DIN 38407; F43	