

# **EVALUATION OF THE INTERLABORATORY COMPARISON TEST**

## **Major Ions N140**

Sample dispatch on 6<sup>th</sup> February 2018

1<sup>st</sup> Edition 16<sup>th</sup> May 2018

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## 1 Interlaboratory comparison test: Major ions – N140

### 1.1 Participants and time schedule

- Number of registrations: 56
- Number of submitted data records: 52
- Dispatch of samples: 6<sup>th</sup> February 2018
- Closing date for submission of data: 6<sup>th</sup> March 2018

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

### 1.2 Sampling, sample material and distribution

The sampling of ground water and surface water was carried out on 5<sup>th</sup> February 2018.

The following samples were made available

- Sample N140 A – ground water
- Sample N140B – surface water

Both samples were filtered using 0.45 µm membrane disc filters and stored at < 4 °C until further processing.

The samples were partly spiked with specific substances and were filled into bottles under continuous stirring to achieve homogeneous samples. The samples were dispatched on 6<sup>th</sup> February 2018.

Each participant received:

- 2 samples (each 1000 ml), each filled in 2 x 500 ml PET bottles.

### 1.3 Control testing

During filling the bottles, aliquots of each sample were collected randomly for control testing. Testing was performed close to the time of sample dispatch.

In the parameter-oriented evaluation, the results of the control testing are given in the form of arithmetic means of the detected concentrations as control test value  $\pm U$ .

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## 2 Evaluation

The analytical results had to be made available to the organiser not later than 6<sup>th</sup> March 2018. Any values received at a later date were not considered. A statistical evaluation of interlaboratory comparison data was only carried out if at least 6 valid results per parameter were available.

To evaluate the data, outliers were detected first by using the outlier test method according to Hampel. Values identified as conspicuous by this test method are marked specifically in the parameter-oriented evaluation.

In justified cases, the outlier elimination was done according to other criteria. This procedure is documented in section 4 of the report.

Further evaluation was performed in accordance with DIN ISO 5725-2. Results < LOQ or < LOD are not taken into account for calculation.

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 of the participating laboratory;   |
| $\bar{X}$ | is the target value, 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 4;   |
| Criteria  | is normally the reproducibility standard deviation (sR) calculated from the participants' results (after removal of outliers) in the relevant test round; if this approach is not applicable, the criteria is derived according to the procedure given in section 4 |

### Interpretation of z-Scores in the parameter-oriented evaluation:

- $|z| < 2$  result: good
- $2 < |z| < 3$  result: questionable
- $|z| > 3$  result: not satisfactory

### 3 Representation and interpretation of measurement results

The parameter oriented report shows the measurement values including uncertainty, 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, including the recovery rates and z-Scores.

An annotation of the tables and graphics is given in section 5.

### 4 Explanatory notes

As explained in section 2, the z-Score is normally 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 target value and is thus independent of the reproducibility standard deviation. In the case of a high variance of the results, participants should consider recovery rates as additional criteria to decide on the necessity of internal quality assurance measures.

#### **Parameter Alkalinity K<sub>s</sub> 4,3:**

For both samples, the relative standard deviation of the participants' results of the parameter Alkalinity K<sub>s</sub> 4,3 was <1%.

In order to avoid too narrow limits for the criterion used in calculating the z-Scores (see section 2), the criterion for Alkalinity was derived on the basis of data from the interlaboratory comparison tests of the last four years (N120, N125, N130 and N135) and was set to 1.4 %.

#### **Parameter Ammonium (as NH<sub>4</sub>):**

For sample A, the relative standard deviation of the participants' results of the parameter ammonium was about 100%.

In addition to this high variation of results, only a small number of valid numerical participant results were submitted. As a consequence, the parameter was excluded from evaluation. The average value in this report should be interpreted as a pure informative value.

Due to a technical problem no control test values could be determined for the parameter ammonium.

### **Parameter Hydrogen Carbonate:**

For the two samples, the relative standard deviation of the participants' results of the parameter hydrogen carbonate was 1.1 % and 1.2%, respectively.

In order to avoid too narrow limits for the criterion used in calculating the z-Scores (see section 2), the criterion for Hydrogen Carbonate was derived on the basis of data from the interlaboratory comparison tests of the last four years (N120, N125, N130 and N135) and was set to 1.4 %. An analogous procedure is described for the parameter Alkalinity  $K_s$  4,3.

## 5 Annotations on tables and charts

### 5.1 Information and abbreviations in tables

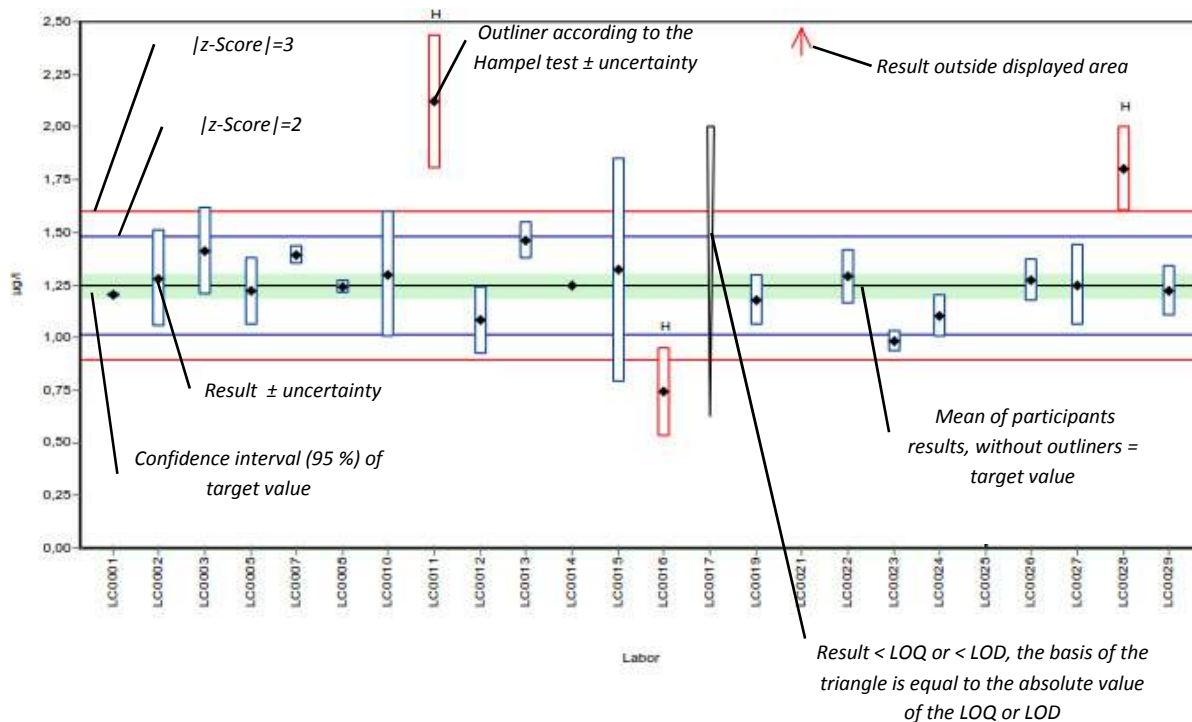
Parameter	Analyte identifier
Sample	Sample identifier
Unit	Given unit for result and uncertainty (e.g. µg/l)
Mean	Mean of the participants results, without outliers (3 significant digits)
CI (99 %)	99% confidence interval (3 significant digits)
Minimum	Minimum of all submitted results, after removal 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	Mean of control testing ± measurement uncertainty (3 significant digits)
Labcode	Laboratory identifier (anonymized)
Result	Result as indicated by participant (max. 5 decimal places)
± U	Results uncertainty as indicated by participant (max. 5 decimal places)
LOQ	Limit of quantification
LOD	Limit of detection
Recovery	Recovery rate in % based on target value (3 significant digits, max. one decimal place given)
z-Score	Deviation of result based on target value depicted as a multiple of the criteria (3 significant digits, max. 2 decimal places given)
-	<i>No data available</i>
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):



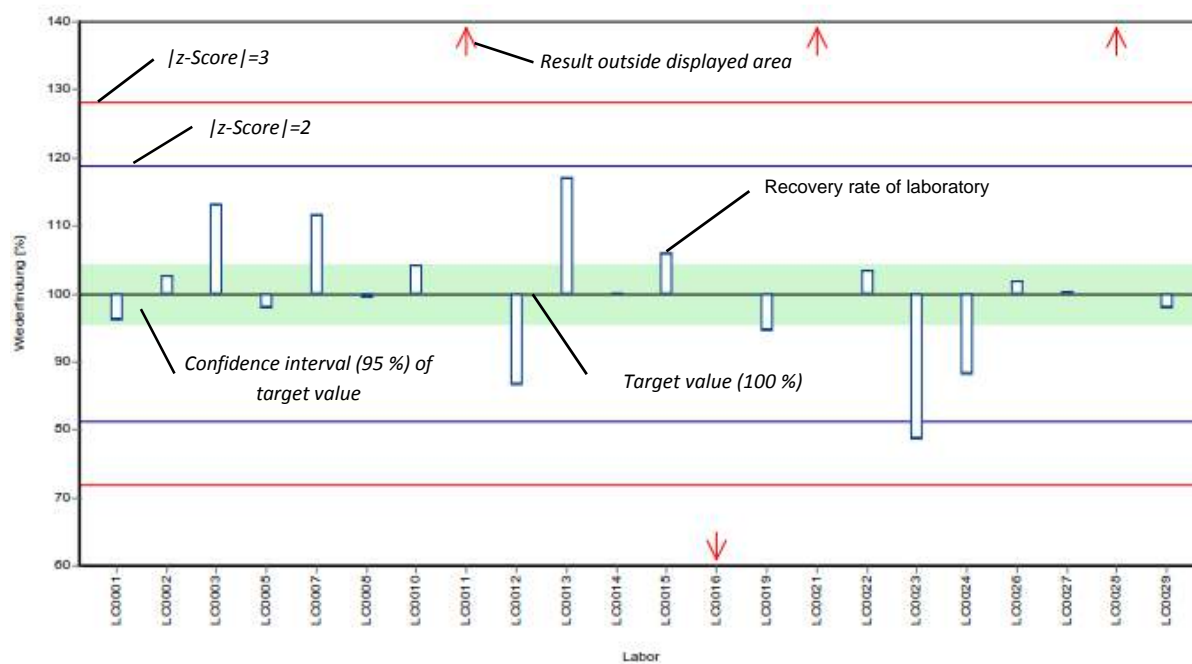
	Result that exceeds the median of the absolute values of the transmitted LOQs or LODs by more than 100 %.
Standard deviation	Reproducibility standard deviation, calculated from the participants results (3 significant digits)
Rel. standard deviation	Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, (3 significant digits)
n	Number of results
Target value	Mean of the participants results, without outliers (3 significant digits)
Criteria	Criteria for z-Score calculation. The given value matches the reproducibility standard deviation, calculated from the participants' results, after removal of outliers (3 significant digits).

## 5.2 Graphical presentation of results

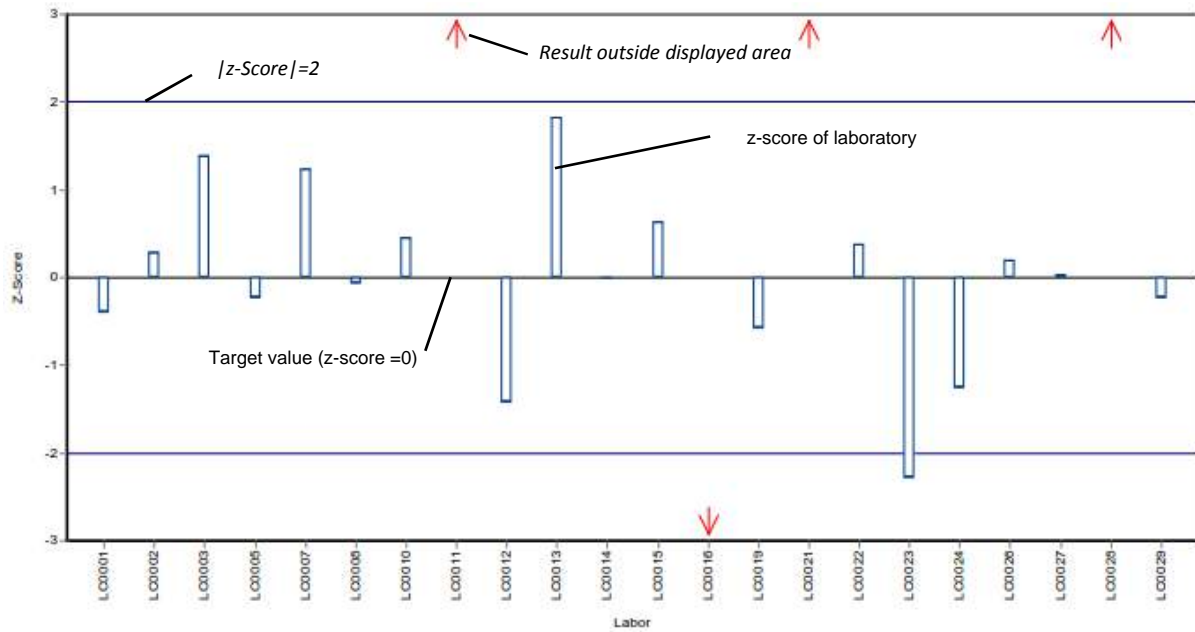
### Example chart: Results



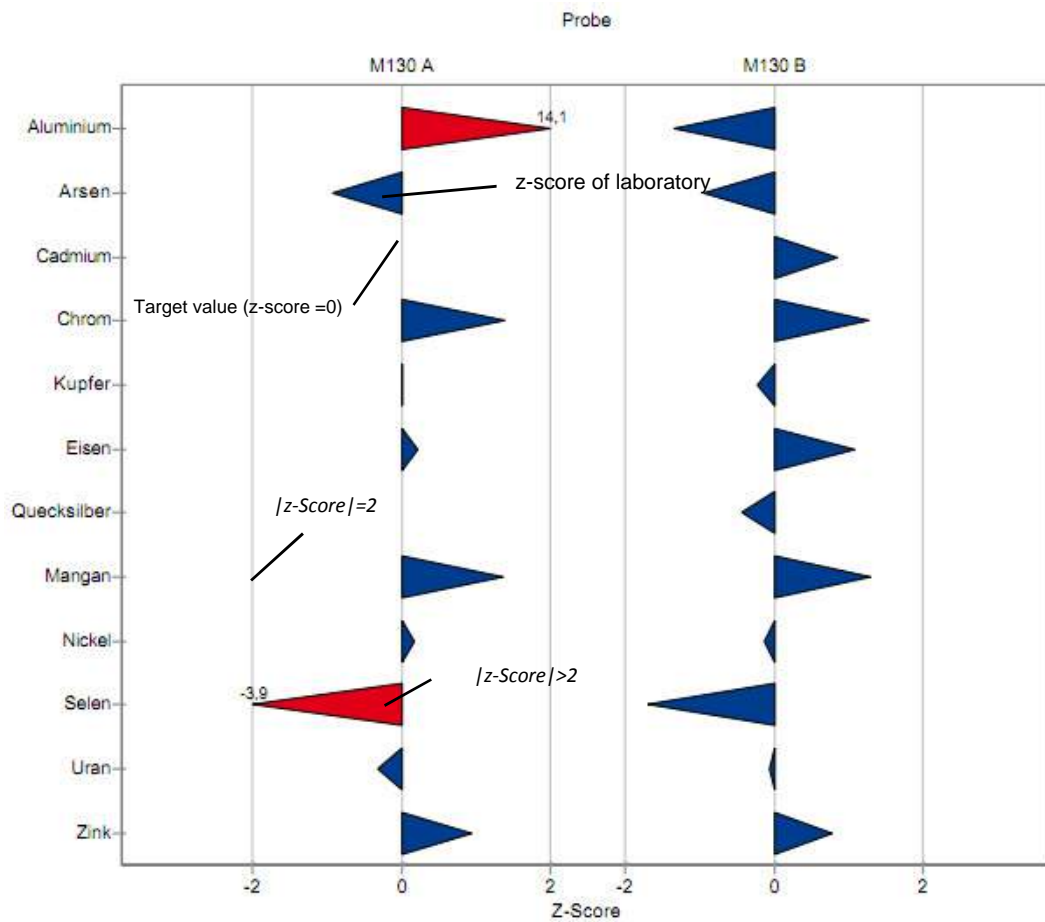
### Example chart: Recovery



**Example chart: z-score**



**Example chart: z-score - laboratory oriented report**



Summary of results, after removal of outliers: Major ions N140

## 6 Summary of results, after removal of outliers

Parameter	Sample	Unit	Number of results for calculation	Number of outliers	Mean	± CI (99%)	Minimum	Maximum	SD	RSD %
Alkalinity Ks 4,3	N140 A	mmol/l	32	6	7,58	± 0,0376	7,43	7,74	0,0709	0,94
	N140 B	mmol/l	32	6	3,54	± 0,0168	3,48	3,61	0,0316	0,89
pH value	N140 A	-	42	3	7,67	± 0,0656	7,32	7,94	0,142	1,8
	N140 B	-	41	4	8,13	± 0,0535	7,83	8,36	0,114	1,4
Boron	N140 A	mg/l	17	4	0,128	± 0,00389	0,115	0,138	0,00535	4,2
	N140 B	mg/l	12	3	0,0148	± 0,00184	0,012	0,02	0,00213	14
Calcium	N140 A	mg/l	37	1	149	± 2,47	138	160	5,01	3,4
	N140 B	mg/l	37	1	61,5	± 0,874	57,9	64,2	1,77	2,9
Chloride	N140 A	mg/l	41	4	121	± 1,83	110	128	3,9	3,2
	N140 B	mg/l	41	4	20,8	± 0,333	19	22,8	0,71	3,4
DOC (as C)	N140 A	mg/l	27	5	1,19	± 0,0672	0,947	1,44	0,116	9,8
	N140 B	mg/l	27	5	2,99	± 0,0861	2,65	3,3	0,149	5
Total-P (as PO <sub>4</sub> )	N140 A	mg/l	24	5	0,034	± 0,00767	0,009	0,07	0,0125	37
	N140 B	mg/l	29	6	0,528	± 0,0306	0,435	0,68	0,0549	10
Total hardness	N140 A	°d	31	4	36,1	± 0,463	33,9	37,7	0,859	2,4
	N140 B	°d	30	6	11,7	± 0,143	11	12,1	0,261	2,2
Hydrogen carbonate	N140 A	mg/l	26	7	461	± 2,87	453	470	4,87	1,1
	N140 B	mg/l	28	5	215	± 1,49	211	221	2,62	1,2
Potassium	N140 A	mg/l	33	1	5,33	± 0,136	4,61	5,9	0,26	4,9
	N140 B	mg/l	31	2	2,14	± 0,0444	1,97	2,32	0,0824	3,9
El. conductivity (25°C)	N140 A	µS/cm	41	5	1350	± 9,38	1300	1400	20	1,5
	N140 B	µS/cm	43	3	453	± 3,01	435	467	6,58	1,5
Magnesium	N140 A	mg/l	34	3	65,1	± 0,886	60,3	67,2	1,72	2,6
	N140 B	mg/l	36	2	12,9	± 0,23	11,7	14	0,46	3,6
Sodium	N140 A	mg/l	32	3	44,1	± 0,78	41,1	46,7	1,47	3,3
	N140 B	mg/l	31	4	12,7	± 0,206	11,9	13,7	0,382	3
Total nitrogen	N140 A	mg/l	21	4	11,3	± 0,423	10,2	12,8	0,646	5,7

Summary of results, after removal of outliers: Major ions N140

Parameter	Sample	Unit	Number of results for calculation	Number of outliers	Mean	± CI (99%)	Minimum	Maximum	SD	RSD %
Total nitrogen	N140 B	mg/l	21	4	2,96	± 0,16	2,64	3,68	0,245	8,3
Ammonium (as NH <sub>4</sub> )	N140 A	mg/l	7	2	0,0179*	± 0,0205	0,00001	0,0556	0,0181	100
	N140 B	mg/l	35	7	0,135	± 0,0052	0,11	0,157	0,0103	7,6
Nitrite (as NO <sub>2</sub> )	N140 A	mg/l	11	4	0,00488	± 0,000924	0,0026	0,007	0,00102	21
	N140 B	mg/l	35	5	0,169	± 0,00418	0,148	0,185	0,00823	4,9
Nitrate (as NO <sub>3</sub> )	N140 A	mg/l	43	2	48,8	± 0,756	45,1	52,4	1,65	3,4
	N140 B	mg/l	44	2	11,8	± 0,212	10,8	12,8	0,468	4
Orthophosphate (as PO <sub>4</sub> )	N140 A	mg/l	25	5	0,0285	± 0,00248	0,0215	0,037	0,00413	14
	N140 B	mg/l	29	8	0,208	± 0,00465	0,187	0,229	0,00834	4
Sulfate (as SO <sub>4</sub> )	N140 A	mg/l	35	8	151	± 2,01	142	159	3,96	2,6
	N140 B	mg/l	36	7	23	± 0,419	21,4	25	0,837	3,6

\*informative value only, for details see section 4

## 7 Parameter oriented report

Alkalinity Ks 4,3 .....	15
pH value .....	25
Boron .....	35
Calcium.....	45
Chloride .....	55
DOC (as C).....	65
Total-P (as PO4) .....	75
Total hardness.....	85
Hydrogen carbonate .....	95
Potassium.....	105
El. conductivity (25°C) .....	115
Magnesium.....	125
Sodium .....	135
Total nitrogen.....	145
Ammonium (as NH4) .....	155
Nitrite (as NO2) .....	163
Nitrate (as NO3) .....	173
Orthophosphate (as PO4).....	183
Sulfate (as SO4) .....	193

## Parameter oriented report

### N140 A

#### Alkalinity Ks 4,3

Unit	mmol/l
Mean ± CI (99%)	7.58 ± 0.0376
Minimum - Maximum	7.43 - 7.74
Control test value ± U	7.72 ± 0.091

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	7.49	0.31	98.9	-0.81	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	7.56	0.4	99.8	-0.14	
LC0007	7.55	-	99.7	-0.24	
LC0008	7.56	0.6	99.8	-0.14	
LC0009	7.59	0.2	100	0.14	
LC0010	7.583	-	100	0.07	
LC0011	7.61	-	100	0.33	
LC0012	7.5	0.1	99	-0.71	
LC0013	7.58	0.08	100	0.04	
LC0014	-	-	-	-	
LC0015	10.98	1.1	145	32.1	H
LC0016	-	-	-	-	
LC0017	8.2	-	108	5.89	H
LC0018	7.54	0.2	99.5	-0.33	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	7.29	0.73	96.2	-2.69	H
LC0022	7.46	1.49	98.5	-1.09	
LC0023	7.48	0.35	98.7	-0.9	
LC0024	7.75	0.8	102	1.65	H
LC0025	7.56	0.38	99.8	-0.14	
LC0026	-	-	-	-	
LC0027	6.35	0.03	83.8	-11.6	H
LC0028	-	-	-	-	
LC0029	7.56	0.014	99.8	-0.14	
LC0030	7.597	0.1	100	0.2	
LC0031	7.43	1.115	98.1	-1.37	
LC0032	7.59	0.83	100	0.14	
LC0033	-	-	-	-	
LC0034	7.67	0.15	101	0.89	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	7.59	0.76	100	0.14	
LC0039	-	-	-	-	
LC0040	7.5	-	99	-0.71	
LC0041	7.58	0.59	100	0.04	

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	7.55	0.378	99.7	-0.24	
LC0043	7.71	0.5	102	1.27	
LC0044	7.62	-	101	0.42	
LC0045	7.6	0.08	100	0.23	
LC0046	-	-	-	-	
LC0047	7.74	0.4	102	1.55	
LC0048	-	-	-	-	
LC0049	7.74	0.39	102	1.55	
LC0050	7.593	0.15	100	0.17	
LC0051	-	-	-	-	
LC0052	8.05	-	106	4.47	H
LC0053	7.52	0.05	99.3	-0.52	
LC0054	7.58	0.38	100	0.04	
LC0055	7.59	0.721	100	0.14	
LC0056	7.59	0.53	100	0.14	

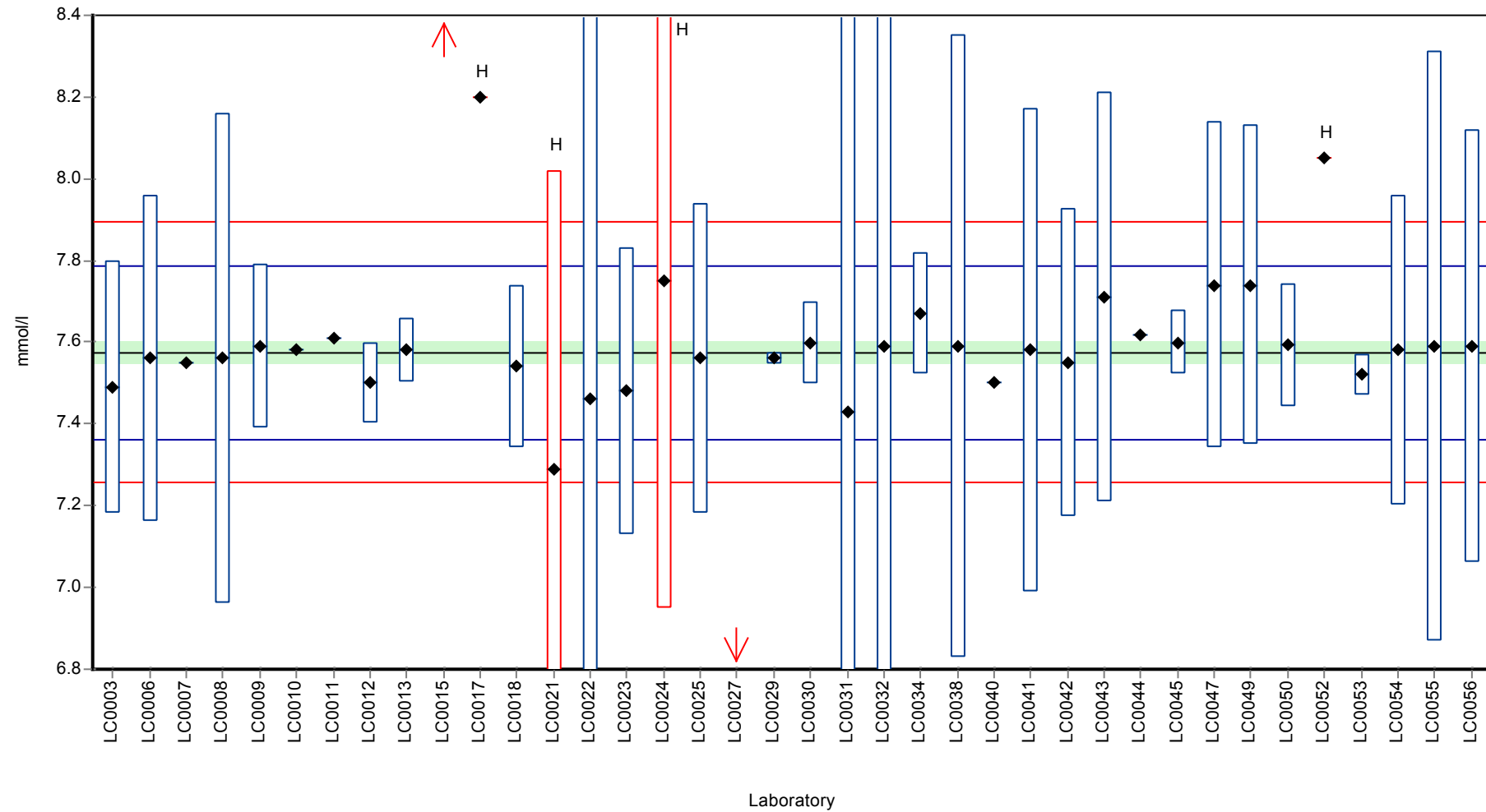
#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	7.66 ± 0.296	7.58 ± 0.0376	mmol/l
Minimum	6.35	7.43	mmol/l
Maximum	11	7.74	mmol/l
Standard deviation	0.609	0.0709	mmol/l
rel. Standard deviation	7.95	0.936	%
n	38	32	-



Graphical presentation of results

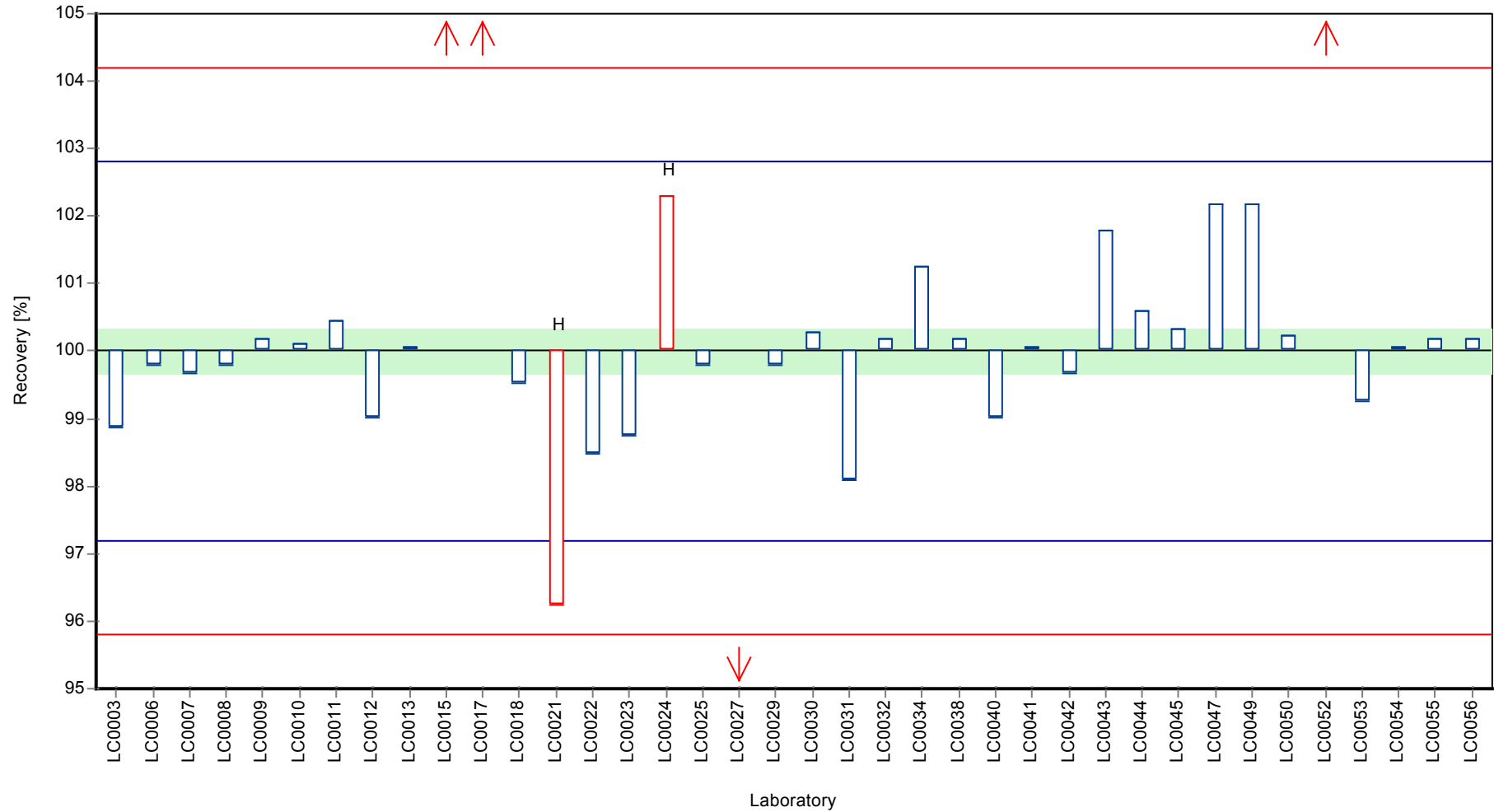
Results



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Alkalinity Ks 4,3

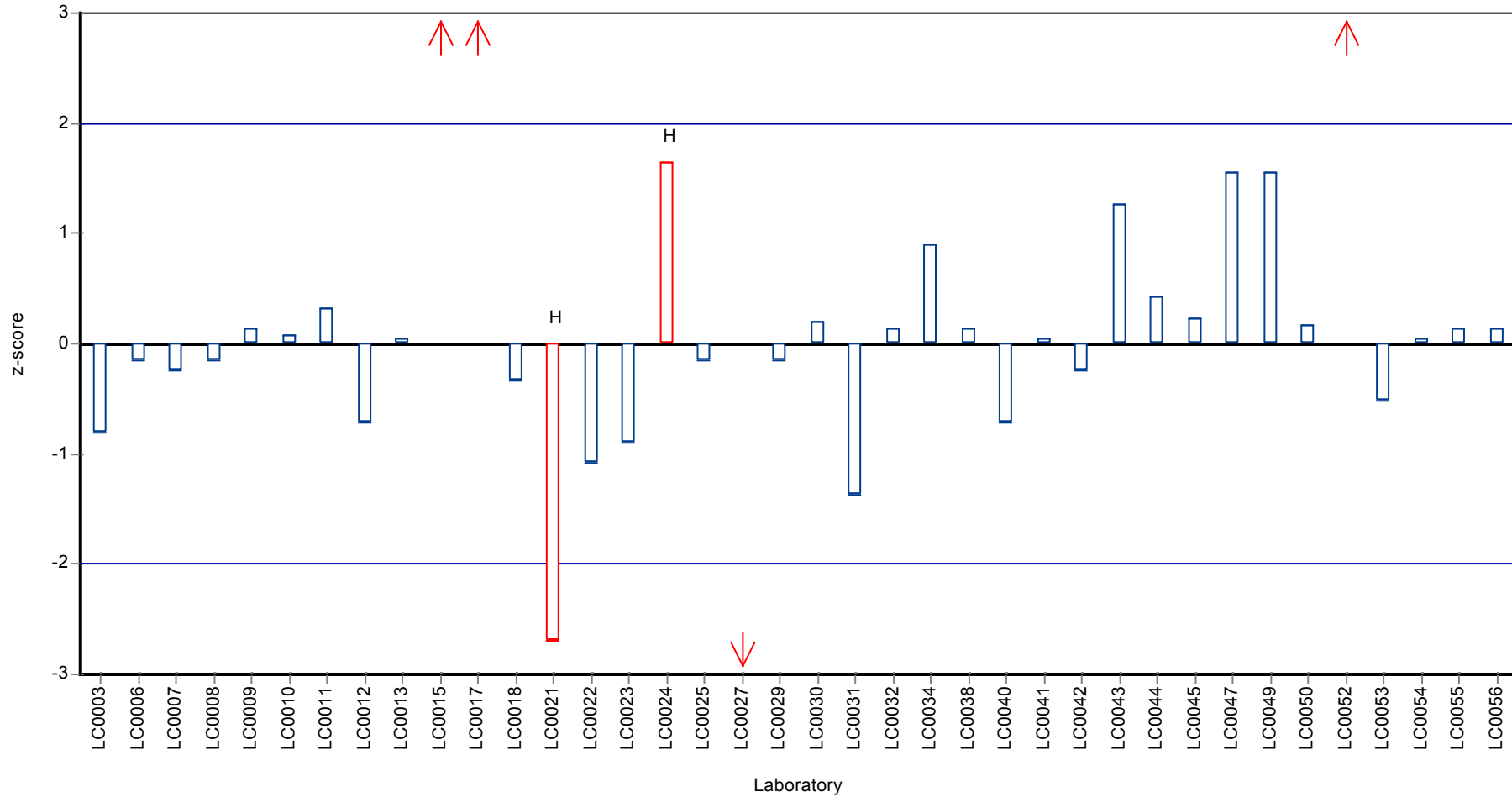
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Alkalinity Ks 4,3

Z-score



## Parameter oriented report

### N140 B

#### Alkalinity Ks 4,3

Unit	mmol/l
Mean ± CI (99%)	3.54 ± 0.0168
Minimum - Maximum	3.48 - 3.61
Control test value ± U	3.62 ± 0.0414

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	3.544	0.15	100	0.03	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	3.53	0.2	99.6	-0.26	
LC0007	3.55	-	100	0.15	
LC0008	3.52	0.28	99.4	-0.46	
LC0009	3.54	0.12	99.9	-0.05	
LC0010	3.519	-	99.3	-0.48	
LC0011	3.51	-	99.1	-0.66	
LC0012	3.55	0.05	100	0.15	
LC0013	3.53	0.05	99.6	-0.26	
LC0014	-	-	-	-	
LC0015	4.86	0.49	137	26.6	H
LC0016	-	-	-	-	
LC0017	4	-	113	9.22	H
LC0018	3.51	0.07	99.1	-0.66	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	3.4	0.34	96	-2.88	H
LC0022	3.57	0.71	101	0.55	
LC0023	3.5	0.18	98.8	-0.86	
LC0024	3.55	0.35	100	0.15	
LC0025	3.58	0.18	101	0.75	
LC0026	-	-	-	-	
LC0027	2.55	0.03	72	-20	H
LC0028	-	-	-	-	
LC0029	3.53	0.007	99.6	-0.26	
LC0030	3.568	0.1	101	0.51	
LC0031	3.52	0.527	99.4	-0.46	
LC0032	3.53	0.32	99.6	-0.26	
LC0033	-	-	-	-	
LC0034	3.61	0.1	102	1.36	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	3.54	0.35	99.9	-0.05	
LC0039	-	-	-	-	
LC0040	3.49	-	98.5	-1.06	
LC0041	3.53	0.27	99.6	-0.26	

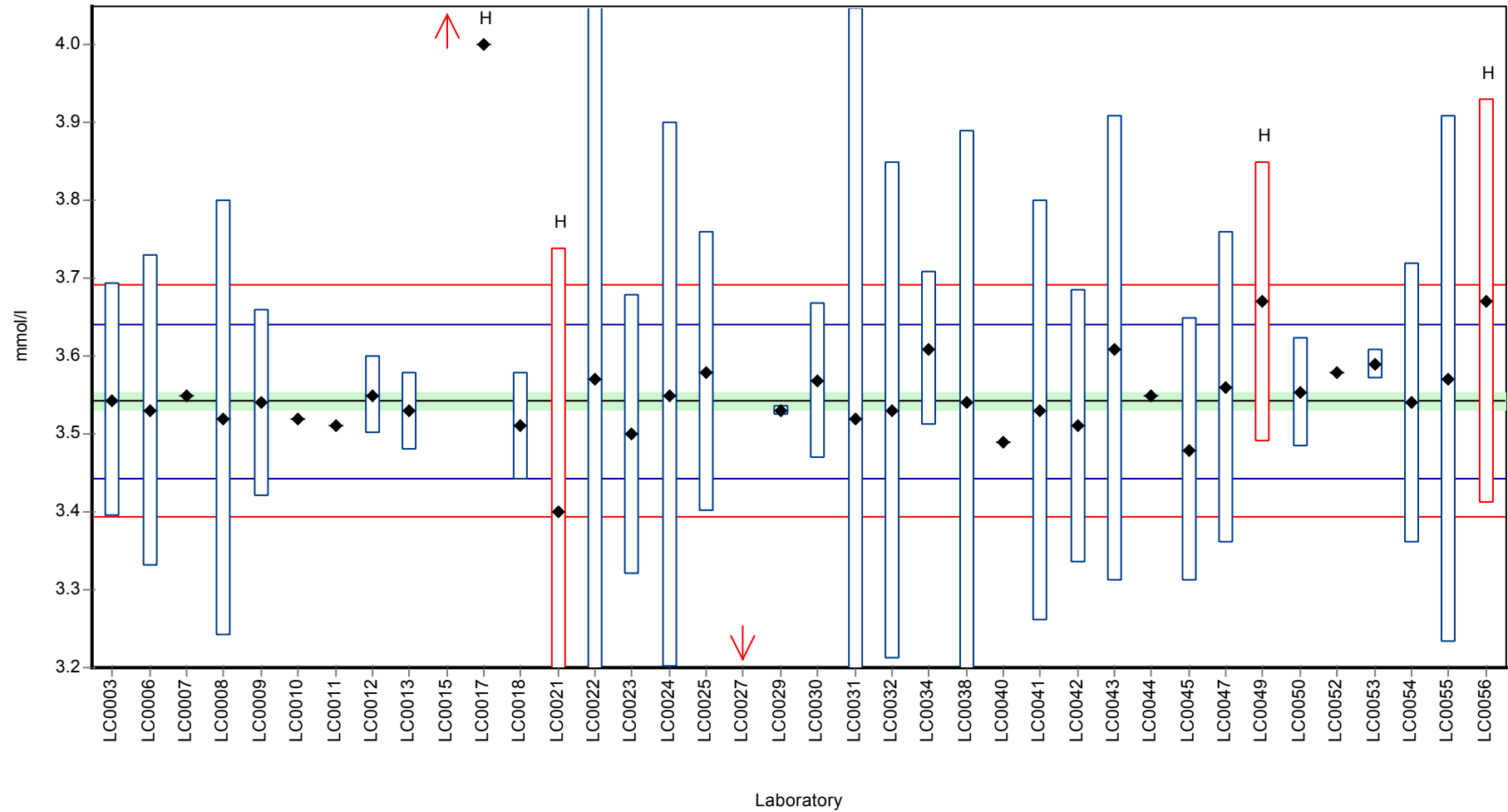
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	3.51	0.176	99.1	-0.66	
LC0043	3.61	0.3	102	1.36	
LC0044	3.55	-	100	0.15	
LC0045	3.48	0.17	98.2	-1.26	
LC0046	-	-	-	-	
LC0047	3.56	0.2	100	0.35	
LC0048	-	-	-	-	
LC0049	3.67	0.18	104	2.57	H
LC0050	3.553	0.07	100	0.21	
LC0051	-	-	-	-	
LC0052	3.58	-	101	0.75	
LC0053	3.59	0.02	101	0.95	
LC0054	3.54	0.18	99.9	-0.05	
LC0055	3.57	0.339	101	0.55	
LC0056	3.67	0.26	104	2.57	H

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	3.57 ± 0.138	3.54 ± 0.0168	mmol/l
Minimum	2.55	3.48	mmol/l
Maximum	4.86	3.61	mmol/l
Standard deviation	0.284	0.0316	mmol/l
rel. Standard deviation	7.97	0.893	%
n	38	32	-

Graphical presentation of results

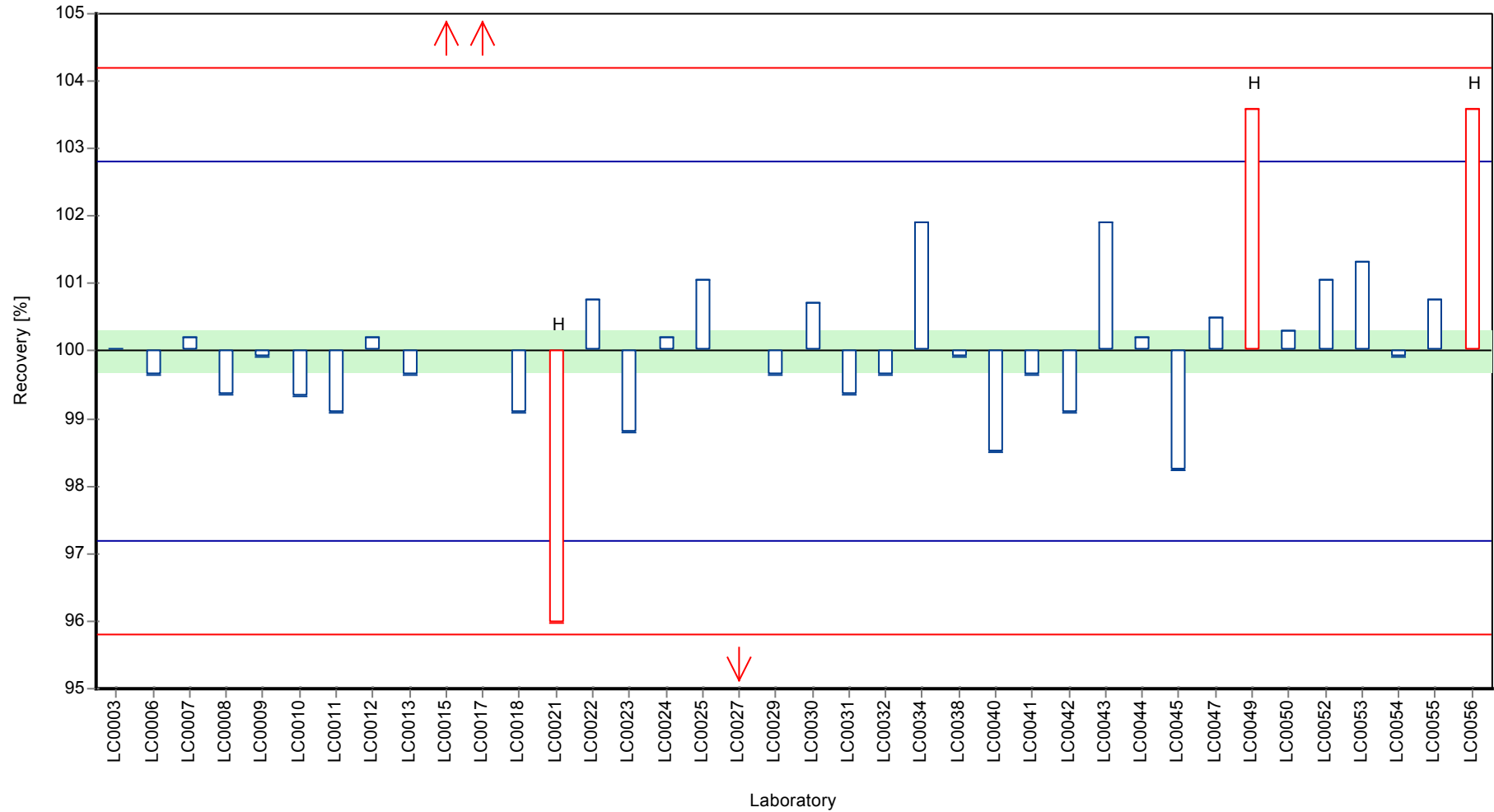
Results



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Alkalinity Ks 4,3

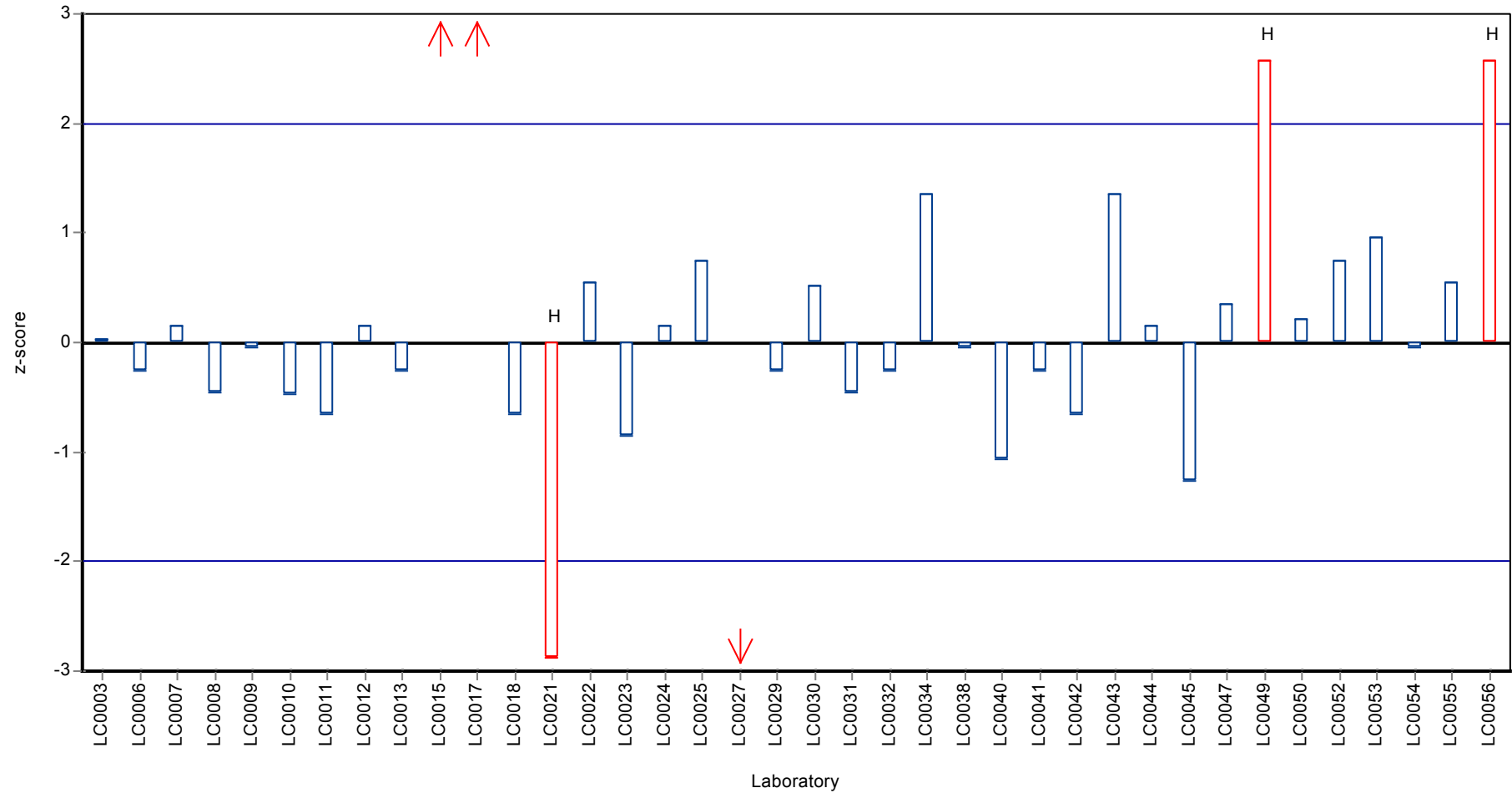
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Alkalinity Ks 4,3

Z-score





## Parameter oriented report

### N140 A

#### pH value

Unit	-
Mean ± CI (99%)	7.67 ± 0.0656
Minimum - Maximum	7.32 - 7.94
Control test value ± U	7.6 ± 0.209

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	7.22	0.1	94.1	-3.17	H
LC0003	7.55	0.02	98.4	-0.84	
LC0004	7.68	0.38	100	0.08	
LC0005	7.7	0.054	100	0.22	
LC0006	7.8	0.4	102	0.92	
LC0007	7.43	-	96.9	-1.69	
LC0008	7.81	0.31	102	0.99	
LC0009	7.63	0.08	99.5	-0.28	
LC0010	7.74	-	101	0.5	
LC0011	7.91	-	103	1.7	
LC0012	7.69	0.15	100	0.15	
LC0013	7.6	0.2	99.1	-0.49	
LC0014	-	-	-	-	
LC0015	7.34	0.37	95.7	-2.32	
LC0016	7.32	0.073	95.4	-2.46	
LC0017	7.8	-	102	0.92	
LC0018	7.5	0.6	97.8	-1.19	
LC0019	7.6	0.01	99.1	-0.49	
LC0020	7.75	0.062	101	0.57	
LC0021	7.63	0.23	99.5	-0.28	
LC0022	8.1	0.2	106	3.04	H
LC0023	7.5	-	97.8	-1.19	
LC0024	7.85	0.1	102	1.27	
LC0025	7.7	-	100	0.22	
LC0026	-	-	-	-	
LC0027	7.59	0.008	99	-0.56	
LC0028	7.59	0.1	99	-0.56	
LC0029	8.12	0.35	106	3.18	H
LC0030	7.91	0.05	103	1.7	
LC0031	7.6	0.45	99.1	-0.49	
LC0032	7.67	0.39	100	0.01	
LC0033	7.8	0.02	102	0.92	
LC0034	7.7	-	100	0.22	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	7.9	0.1	103	1.63	
LC0039	-	-	-	-	
LC0040	7.6	-	99.1	-0.49	
LC0041	-	-	-	-	

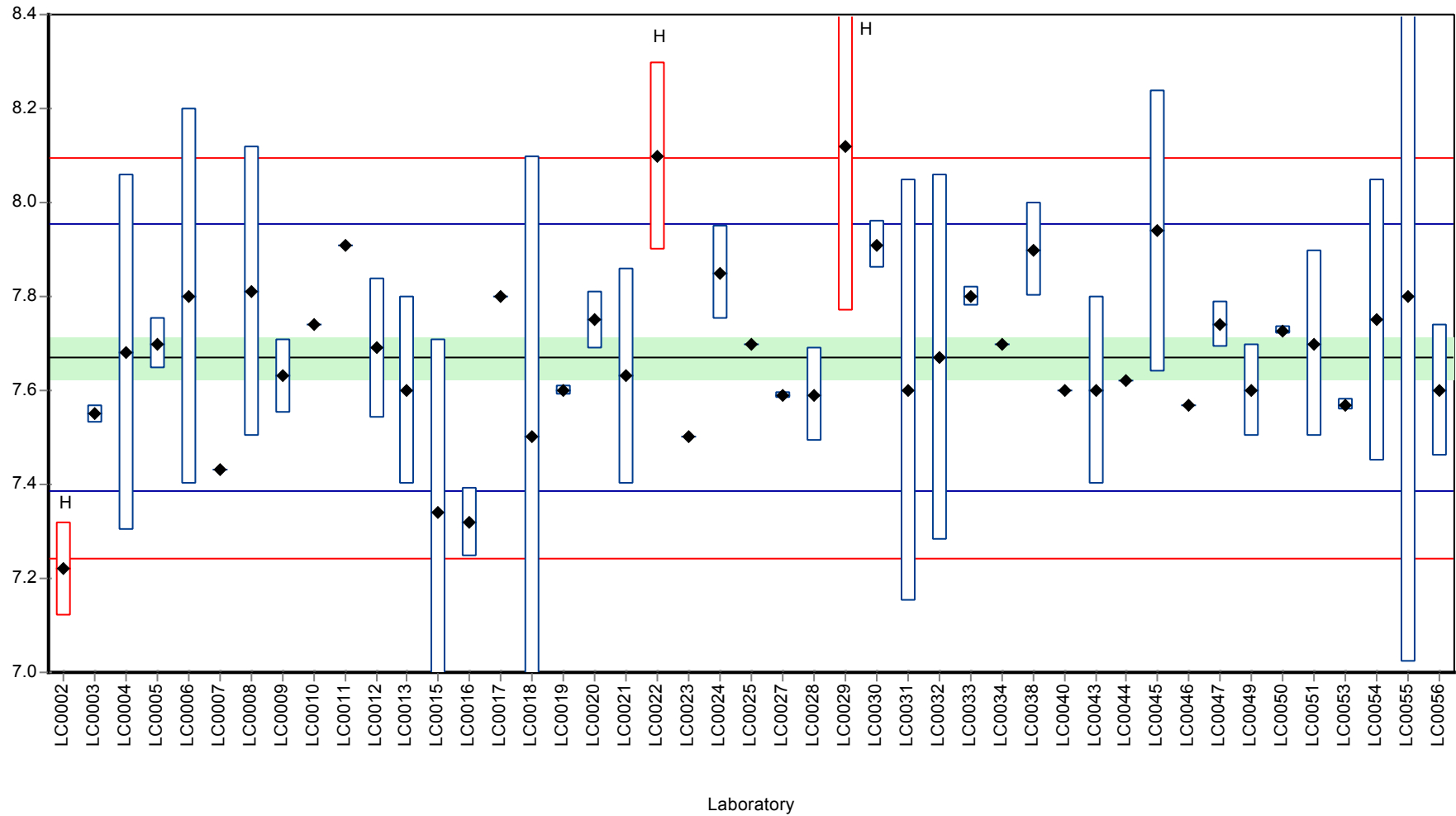
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	7.6	0.2	99.1	-0.49	
LC0044	7.62	-	99.4	-0.35	
LC0045	7.94	0.3	104	1.91	
LC0046	7.57	-	98.7	-0.7	
LC0047	7.74	0.05	101	0.5	
LC0048	-	-	-	-	
LC0049	7.6	0.1	99.1	-0.49	
LC0050	7.728	0.01	101	0.41	
LC0051	7.7	0.2	100	0.22	
LC0052	-	-	-	-	
LC0053	7.57	0.011	98.7	-0.7	
LC0054	7.75	0.3	101	0.57	
LC0055	7.8	0.78	102	0.92	
LC0056	7.6	0.14	99.1	-0.49	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	7.68 ± 0.0801	7.67 ± 0.0656	-
Minimum	7.22	7.32	-
Maximum	8.12	7.94	-
Standard deviation	0.179	0.142	-
rel. Standard deviation	2.33	1.85 %	
n	45	42	-

Graphical presentation of results

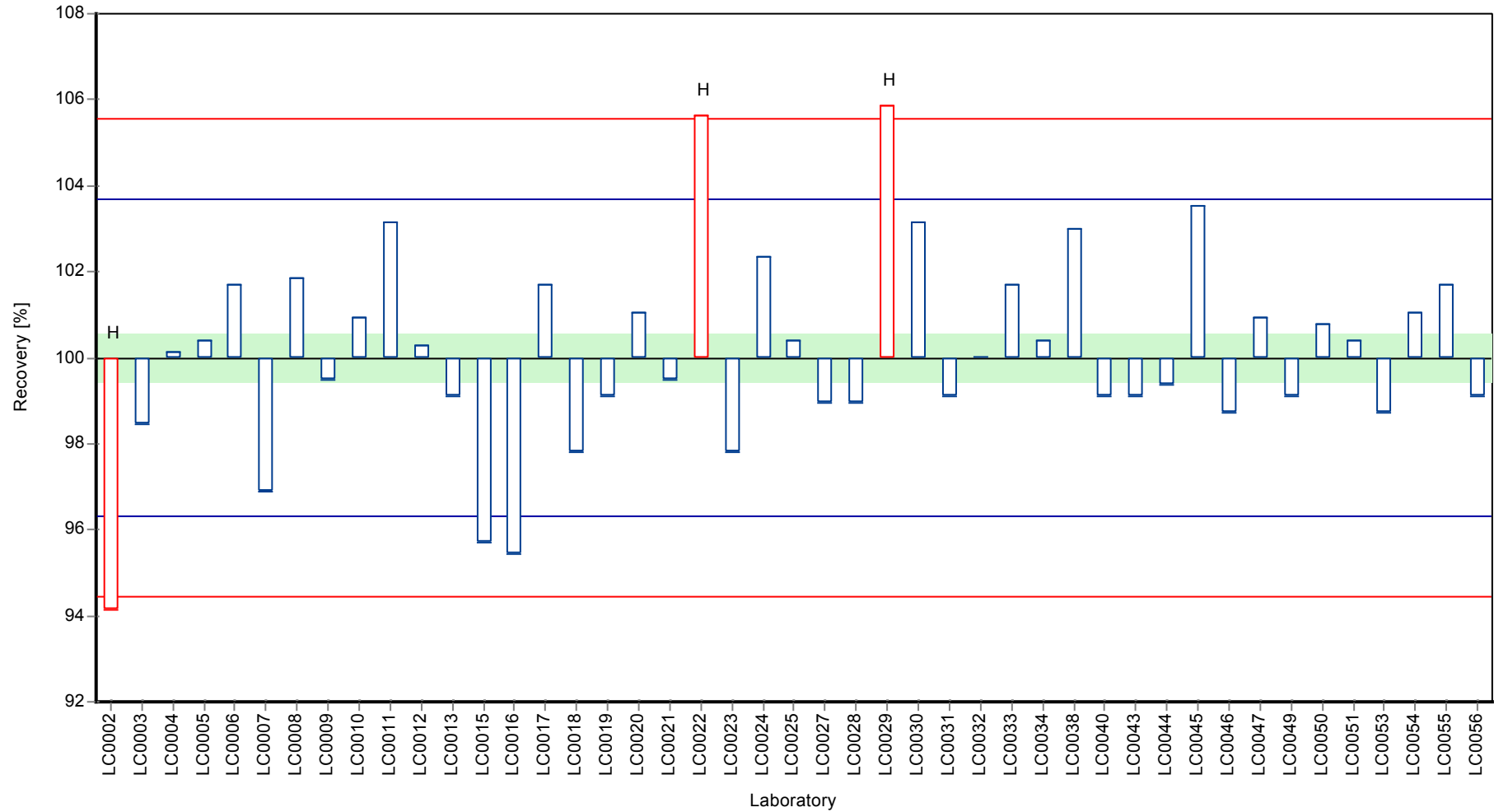
Results



Parameter oriented report Major ions N140

Sample: N140A, Parameter: pH value

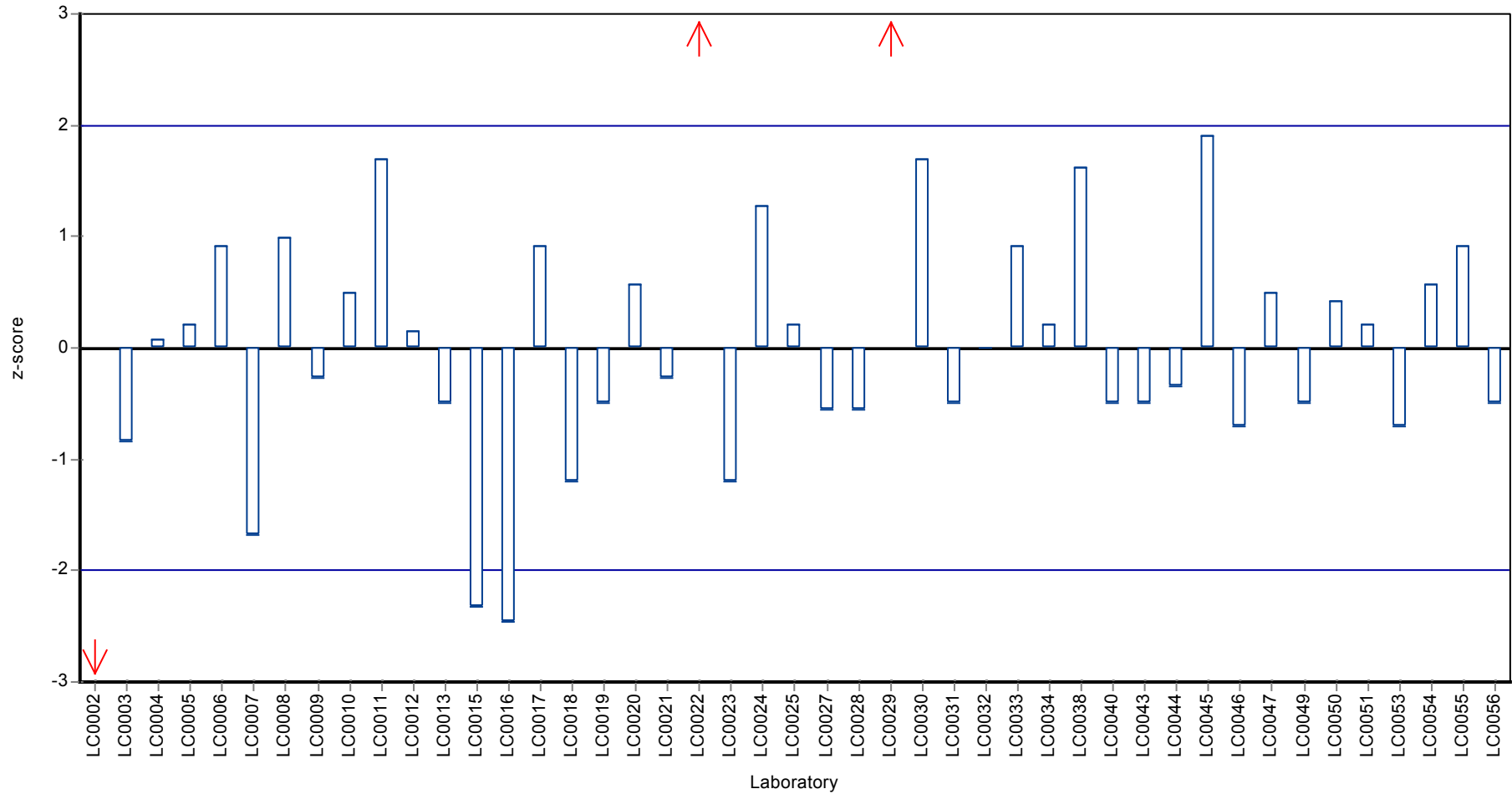
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: pH value

Z-score



## Parameter oriented report

### N140 B

#### pH value

Unit	-
Mean ± CI (99%)	8.13 ± 0.0535
Minimum - Maximum	7.83 - 8.36
Control test value ± U	8.18 ± 0.151

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	7.67	0.1	94.3	-4.05	H
LC0003	8.06	0.02	99.1	-0.63	
LC0004	8.07	0.4	99.2	-0.54	
LC0005	7.95	0.056	97.8	-1.59	
LC0006	8.1	0.4	99.6	-0.28	
LC0007	7.35	-	90.4	-6.85	H
LC0008	8.24	0.33	101	0.95	
LC0009	8.11	0.08	99.7	-0.19	
LC0010	8.18	-	101	0.42	
LC0011	8.28	-	102	1.3	
LC0012	8.19	0.16	101	0.51	
LC0013	8.1	0.2	99.6	-0.28	
LC0014	-	-	-	-	
LC0015	7.62	0.38	93.7	-4.48	H
LC0016	7.833	0.078	96.3	-2.62	
LC0017	8.2	-	101	0.6	
LC0018	8	0.6	98.4	-1.15	
LC0019	8.03	0.01	98.7	-0.89	
LC0020	7.85	0.062	96.5	-2.47	
LC0021	8.06	0.24	99.1	-0.63	
LC0022	8.26	0.2	102	1.12	
LC0023	7.7	-	94.7	-3.78	H
LC0024	8.24	0.1	101	0.95	
LC0025	8.15	-	100	0.16	
LC0026	-	-	-	-	
LC0027	8.11	0.008	99.7	-0.19	
LC0028	8.17	0.1	100	0.34	
LC0029	8.24	0.006	101	0.95	
LC0030	8.26	0.05	102	1.12	
LC0031	8.1	0.48	99.6	-0.28	
LC0032	8.19	0.41	101	0.51	
LC0033	7.97	0.01	98	-1.42	
LC0034	8.2	-	101	0.6	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	8.2	0.1	101	0.6	
LC0039	-	-	-	-	
LC0040	8.1	-	99.6	-0.28	
LC0041	-	-	-	-	

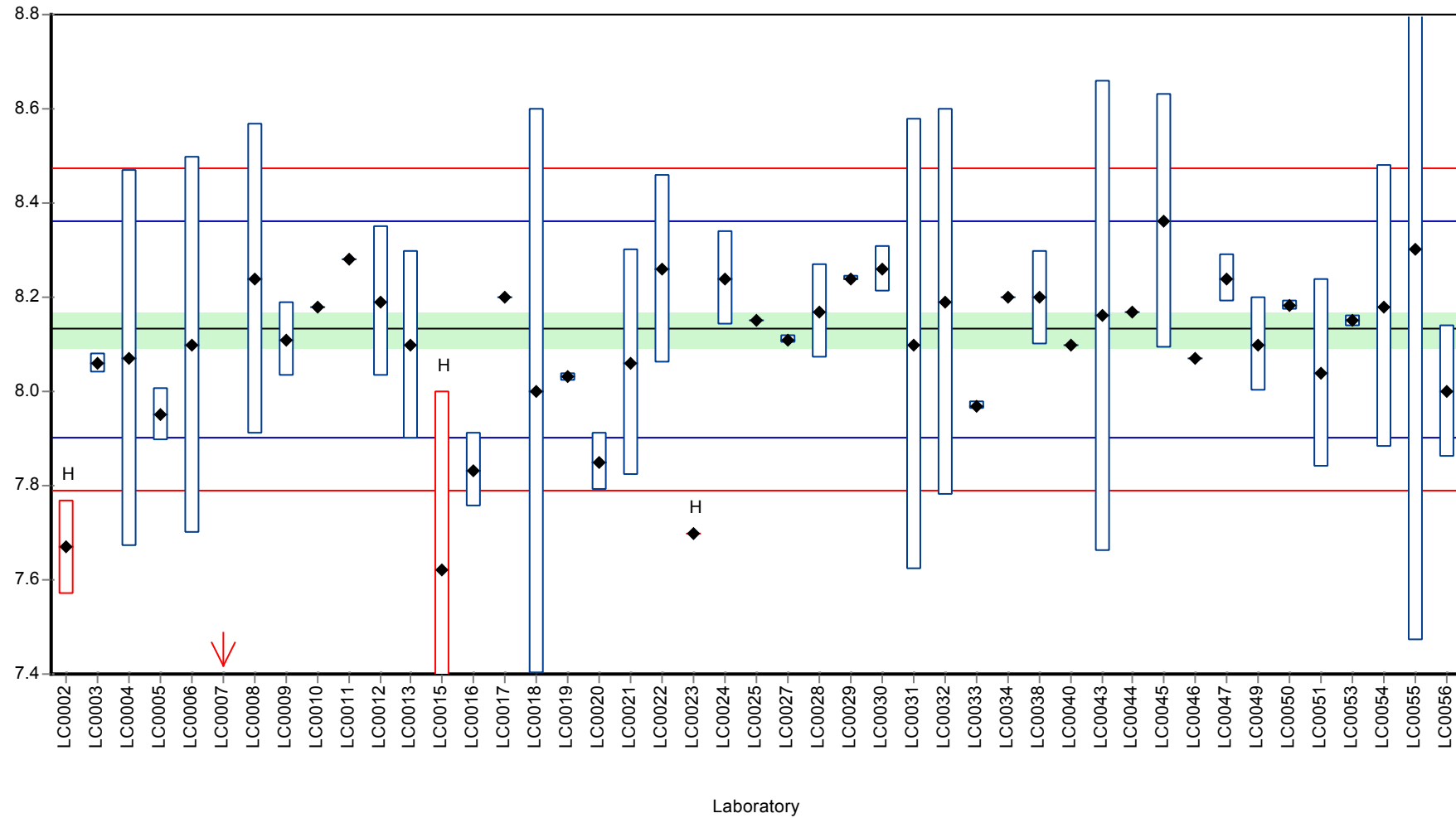
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	8.16	0.5	100	0.25	
LC0044	8.17	-	100	0.34	
LC0045	8.362	0.27	103	2.02	
LC0046	8.07	-	99.2	-0.54	
LC0047	8.24	0.05	101	0.95	
LC0048	-	-	-	-	
LC0049	8.1	0.1	99.6	-0.28	
LC0050	8.183	0.01	101	0.45	
LC0051	8.04	0.2	98.9	-0.8	
LC0052	-	-	-	-	
LC0053	8.15	0.012	100	0.16	
LC0054	8.18	0.3	101	0.42	
LC0055	8.3	0.83	102	1.48	
LC0056	8	0.14	98.4	-1.15	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	8.08 ± 0.0876	8.13 ± 0.0535	-
Minimum	7.35	7.83	-
Maximum	8.36	8.36	-
Standard deviation	0.196	0.114	-
rel. Standard deviation	2.42	1.4	%
n	45	41	-

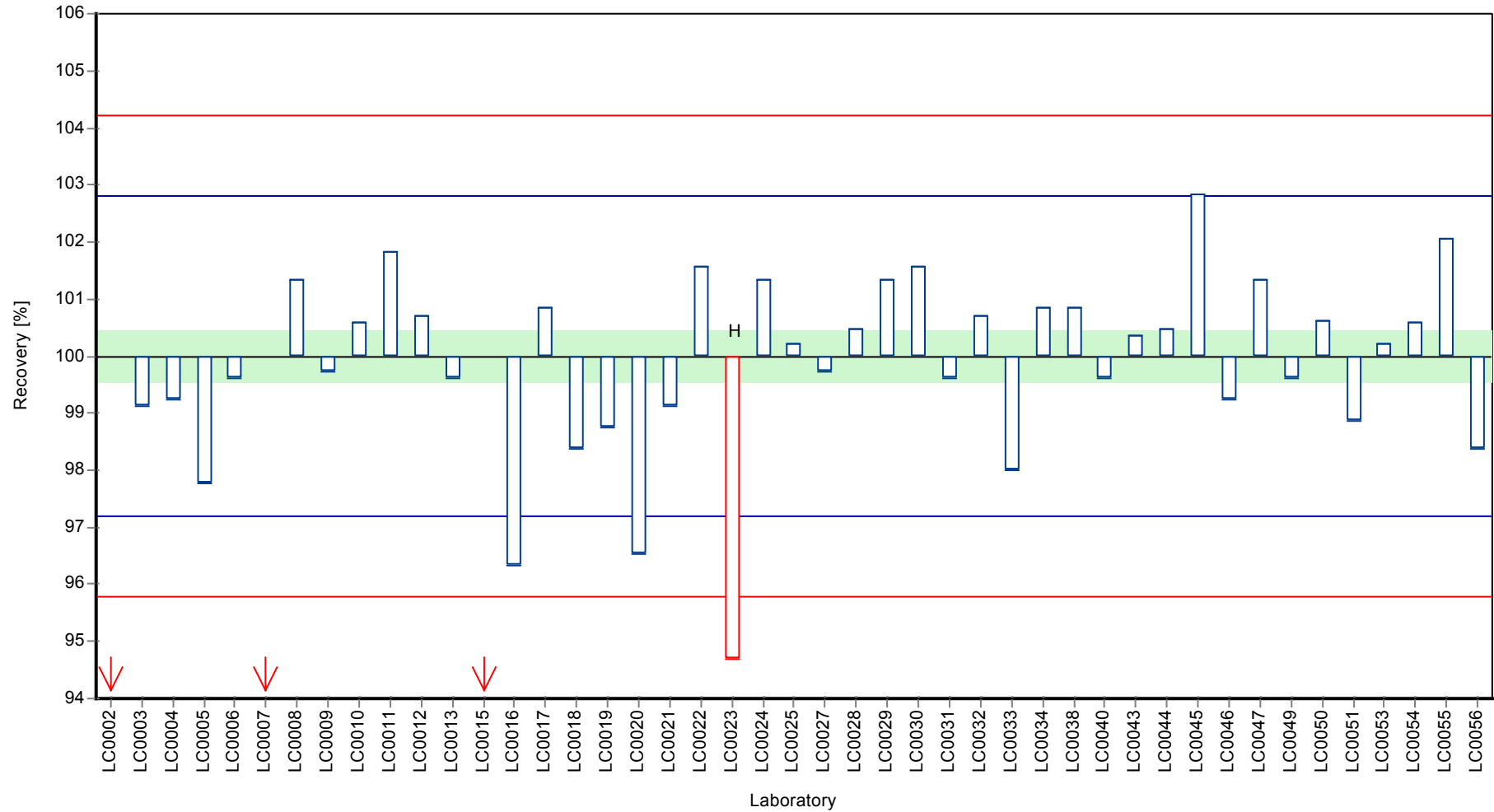
Graphical presentation of results

Results





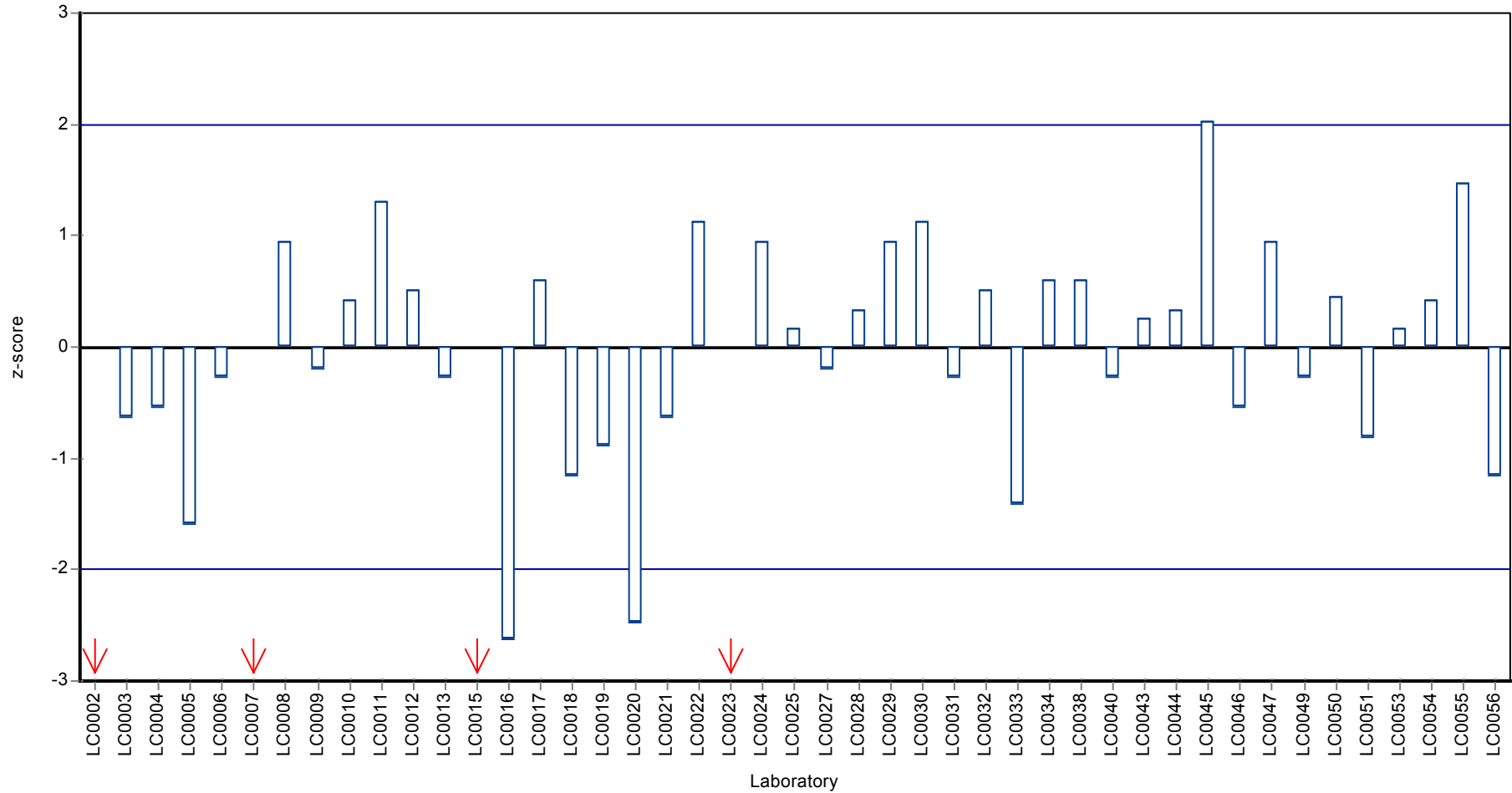
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: pH value

Z-score



## Parameter oriented report

### N140 A

#### Boron

Unit	mg/l
Mean ± CI (99%)	0.128 ± 0.00389
Minimum - Maximum	0.115 - 0.138
Control test value ± U	0.131 ± 0.0094

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	0.158	-	123	5.56	H
LC0008	-	-	-	-	
LC0009	0.127	0.001	99	-0.24	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	0.125	0.012	97.4	-0.62	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	0.13	-	101	0.32	
LC0023	0.13	0.01	101	0.32	
LC0024	-	-	-	-	
LC0025	0.128	0.0128	99.8	-0.06	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	0.128	0.001	99.8	-0.06	
LC0030	-	-	-	-	
LC0031	0.138	0.0166	108	1.82	
LC0032	0.138	0.008	108	1.82	
LC0033	0.112	0.001	87.3	-3.05	H
LC0034	0.128	0.01	99.8	-0.06	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	-	-	-	-	
LC0040	0.127	0.0038	99	-0.24	
LC0041	-	-	-	-	

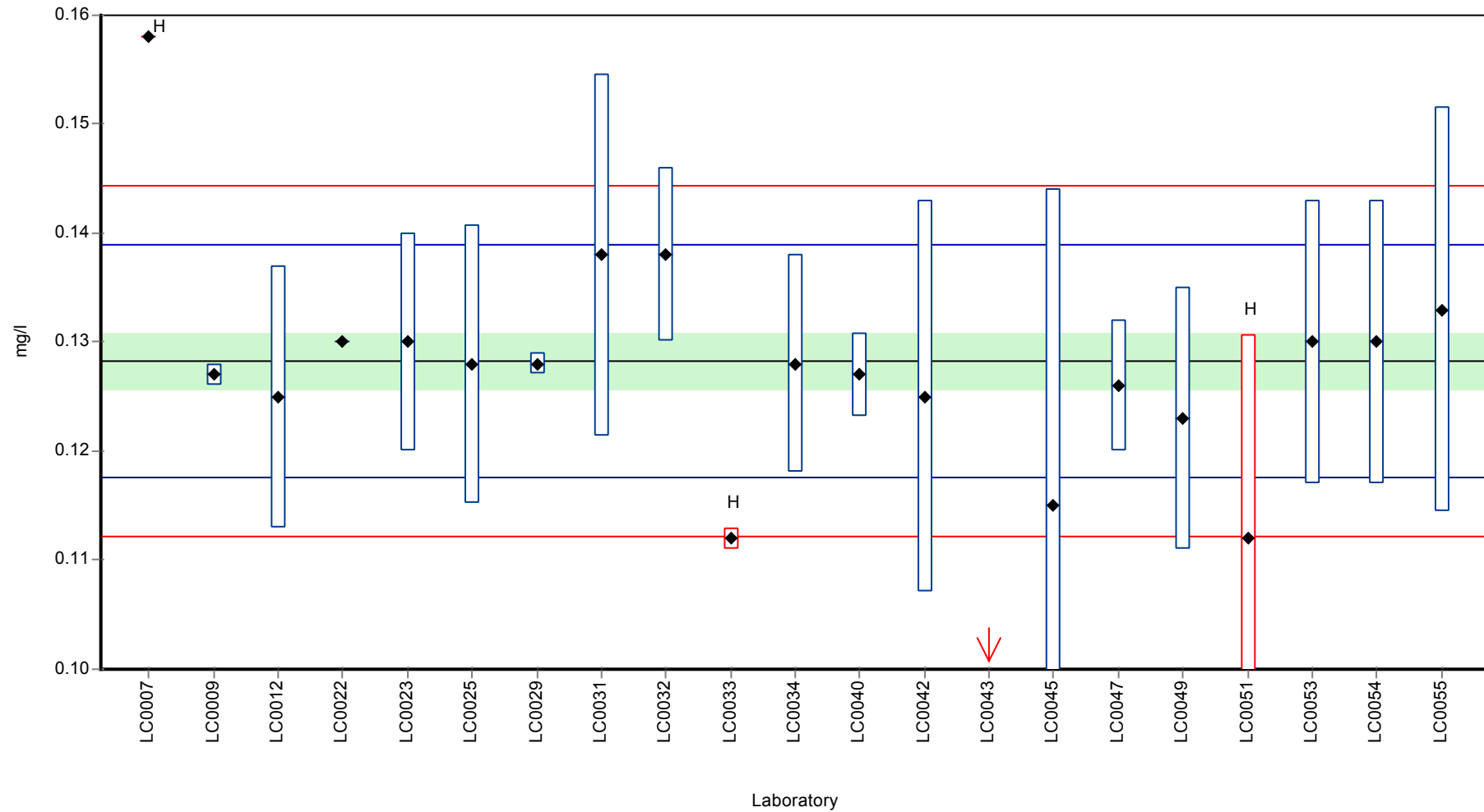
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	0.125	0.018	97.4	-0.62	
LC0043	0.085	0.01	66.3	-8.1	H
LC0044	-	-	-	-	
LC0045	0.115	0.029	89.6	-2.49	
LC0046	-	-	-	-	
LC0047	0.126	0.006	98.2	-0.43	
LC0048	-	-	-	-	
LC0049	0.123	0.012	95.9	-0.99	
LC0050	-	-	-	-	
LC0051	0.112	0.0187	87.3	-3.05	H
LC0052	-	-	-	-	
LC0053	0.13	0.013	101	0.32	
LC0054	0.13	0.013	101	0.32	
LC0055	0.133	0.0186	104	0.88	
LC0056	-	-	-	-	

#### Characteristics of parameter

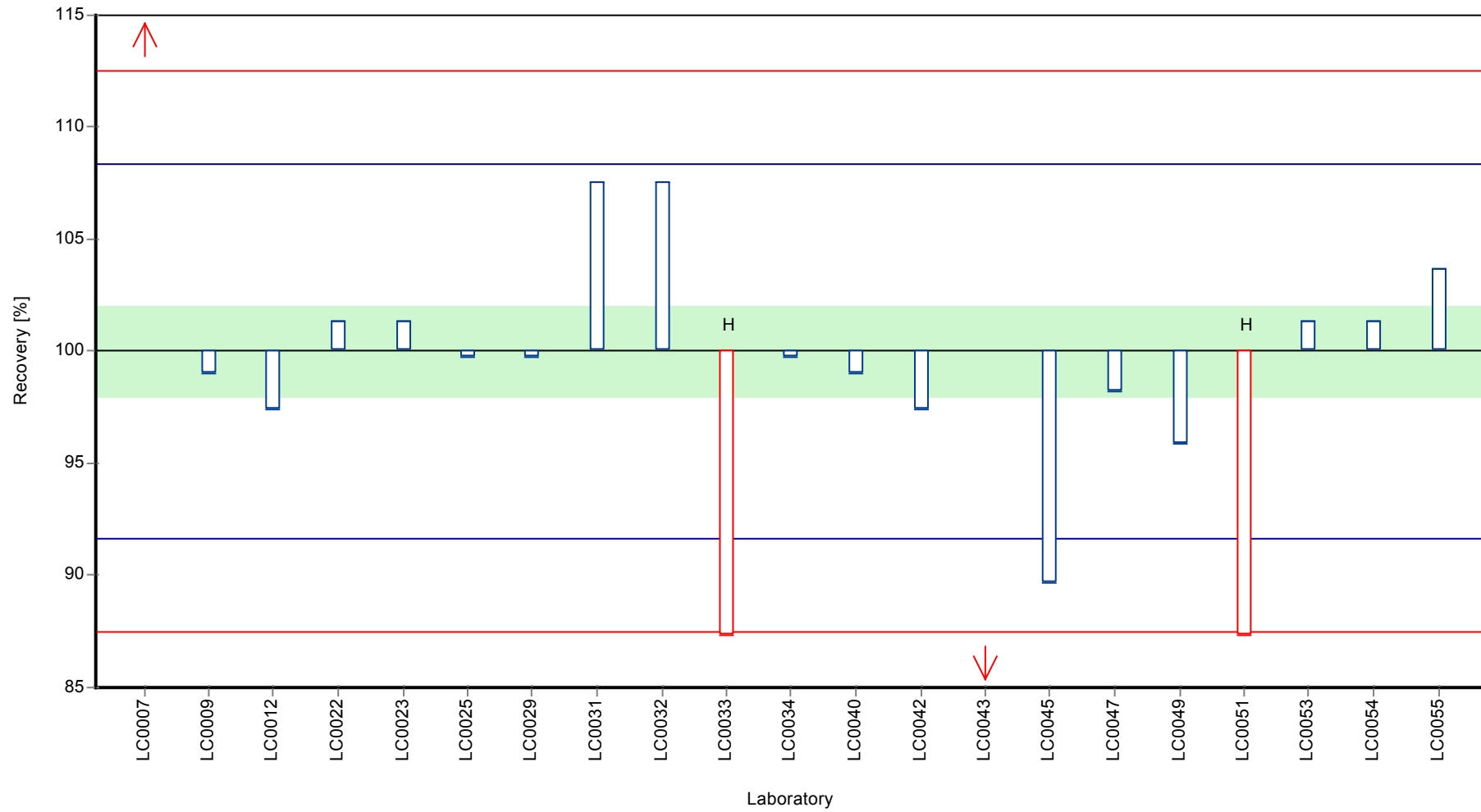
	all results	without outliers	Unit
Mean ± CI (99%)	0.126 ± 0.00884	0.128 ± 0.00389	mg/l
Minimum	0.085	0.115	mg/l
Maximum	0.158	0.138	mg/l
Standard deviation	0.0135	0.00535	mg/l
rel. Standard deviation	10.7	4.17	%
n	21	17	-

Graphical presentation of results

Results



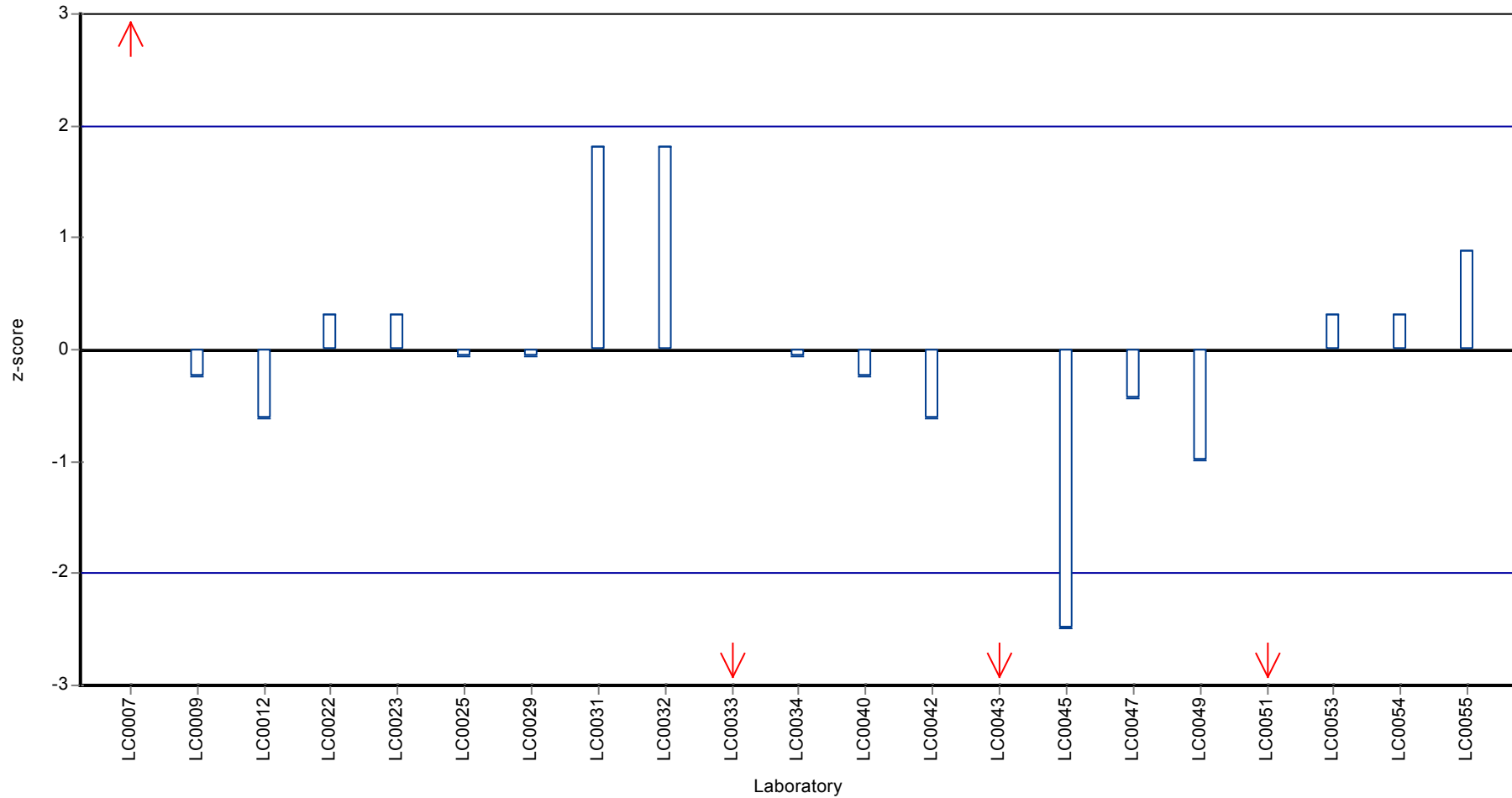
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Boron

Z-score



## Parameter oriented report

### N140 B

#### Boron

Unit	mg/l
Mean ± CI (99%)	0.0148 ± 0.00184
Minimum - Maximum	0.012 - 0.02
Control test value ± U	0.0157 ± 0.00114

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	0.016	-	108	0.55	
LC0008	-	-	-	-	
LC0009	< 0.02 (LOQ)	-7.86614	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	< 0.03 (LOQ)	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	0.025	-	169	4.78	H
LC0023	0.022	0.002	148	3.37	H
LC0024	-	-	-	-	
LC0025	0.012	0.001	80.9	-1.33	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	0.0153	0.0003	103	0.22	
LC0030	-	-	-	-	
LC0031	0.016	0.0019	108	0.55	
LC0032	< 0.047 (LOQ)	-	-	-	
LC0033	0.015	0.001	101	0.08	
LC0034	< 0.03 (LOQ)	-	-	-	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	-	-	-	-	
LC0040	0.0153	0.0031	103	0.22	
LC0041	-	-	-	-	



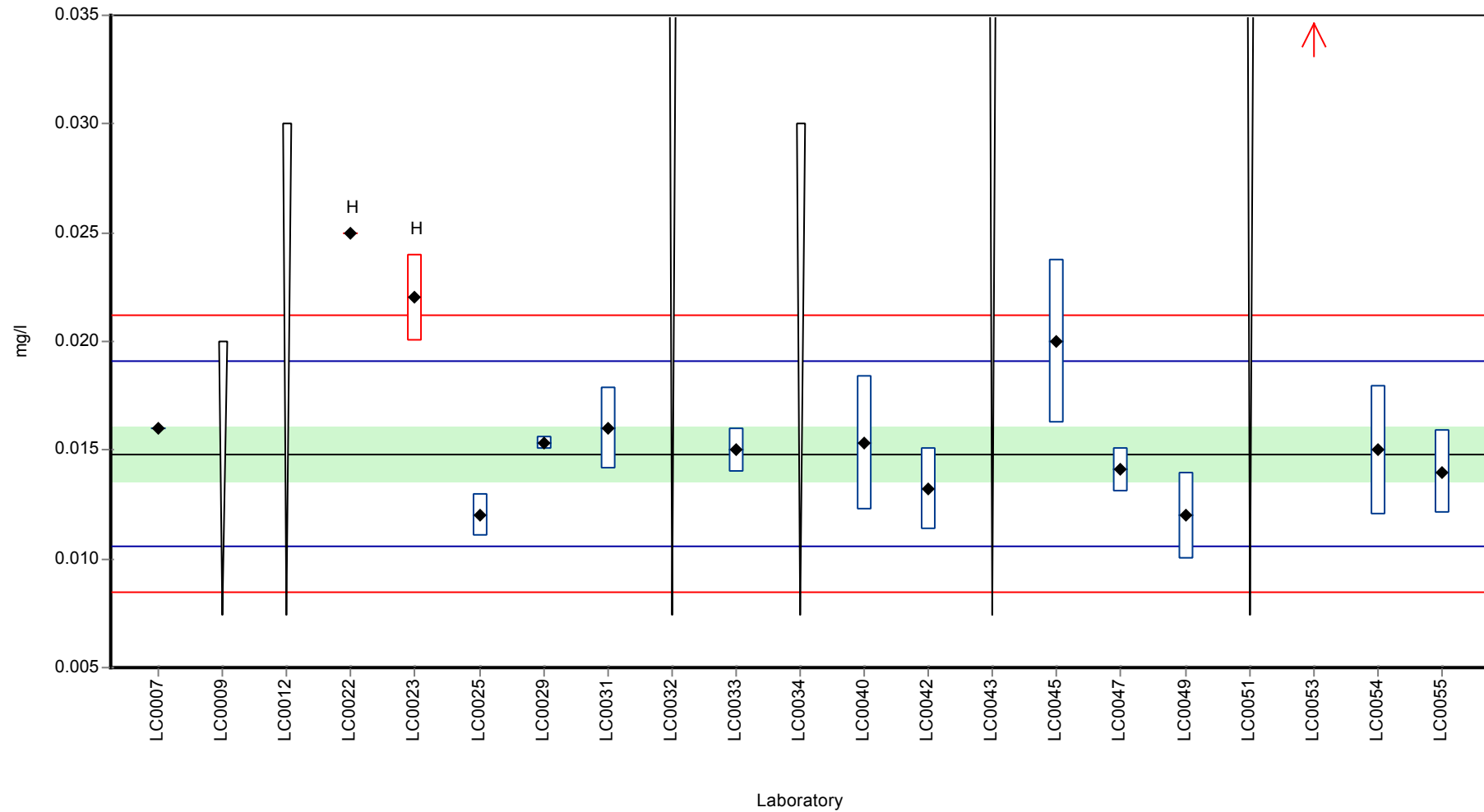
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	0.0132	0.0019	89	-0.76	
LC0043	< 0.05 (LOQ)	-	-	-	
LC0044	-	-	-	-	
LC0045	0.02	0.0038	135	2.43	
LC0046	-	-	-	-	
LC0047	0.0141	0.001	95.1	-0.34	
LC0048	-	-	-	-	
LC0049	0.012	0.002	80.9	-1.33	
LC0050	-	-	-	-	
LC0051	< 0.05 (LOQ)	-	-	-	
LC0052	-	-	-	-	
LC0053	0.04	0.004	270	11.8	H
LC0054	0.015	0.003	101	0.08	
LC0055	0.014	0.0019	94.4	-0.39	
LC0056	-	-	-	-	

#### Characteristics of parameter

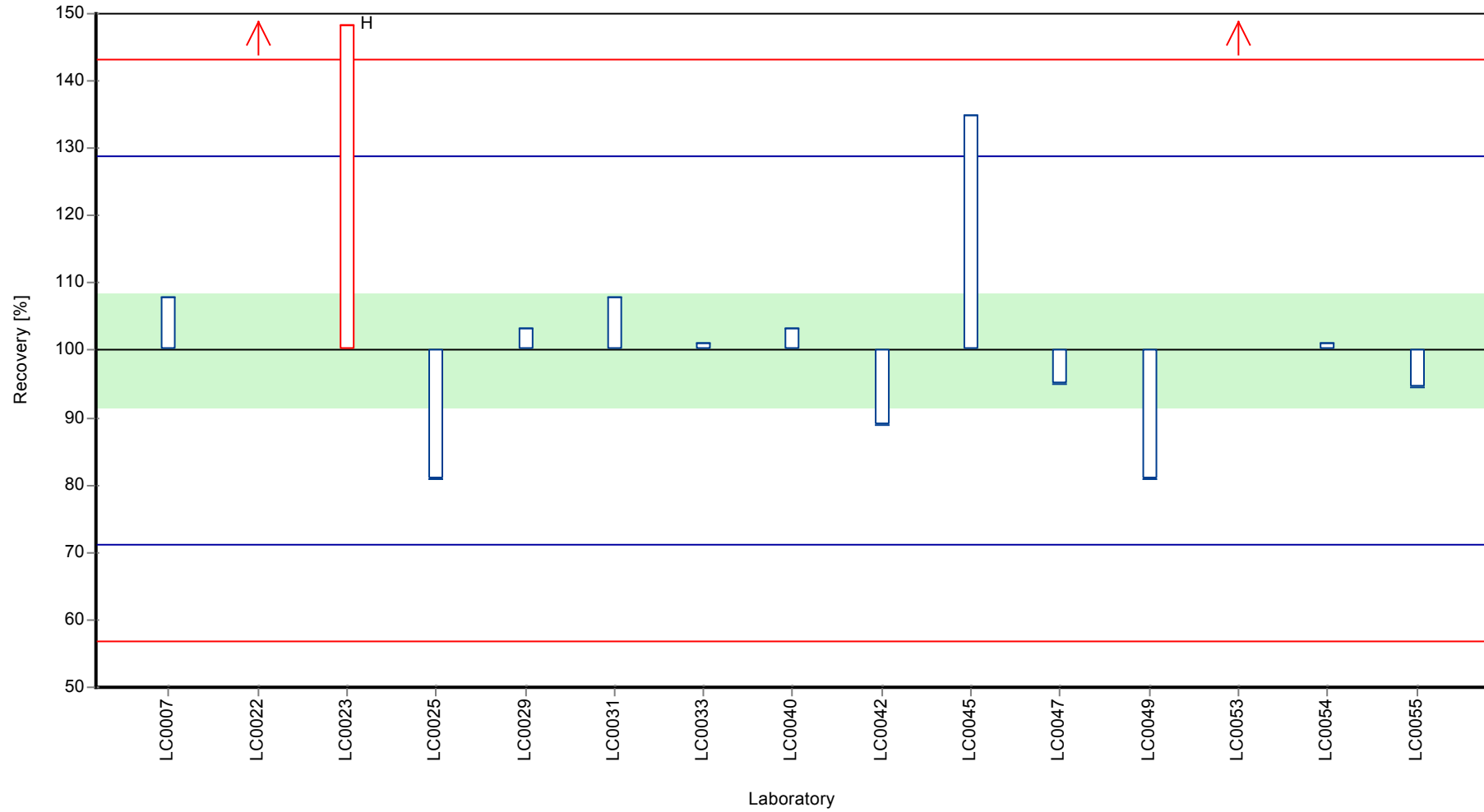
	all results	without outliers	Unit
Mean ± CI (99%)	0.0177 ± 0.00555	0.0148 ± 0.00184	mg/l
Minimum	0.012	0.012	mg/l
Maximum	0.04	0.02	mg/l
Standard deviation	0.00716	0.00213	mg/l
rel. Standard deviation	40.6	14.4	%
n	15	12	-

Graphical presentation of results

Results



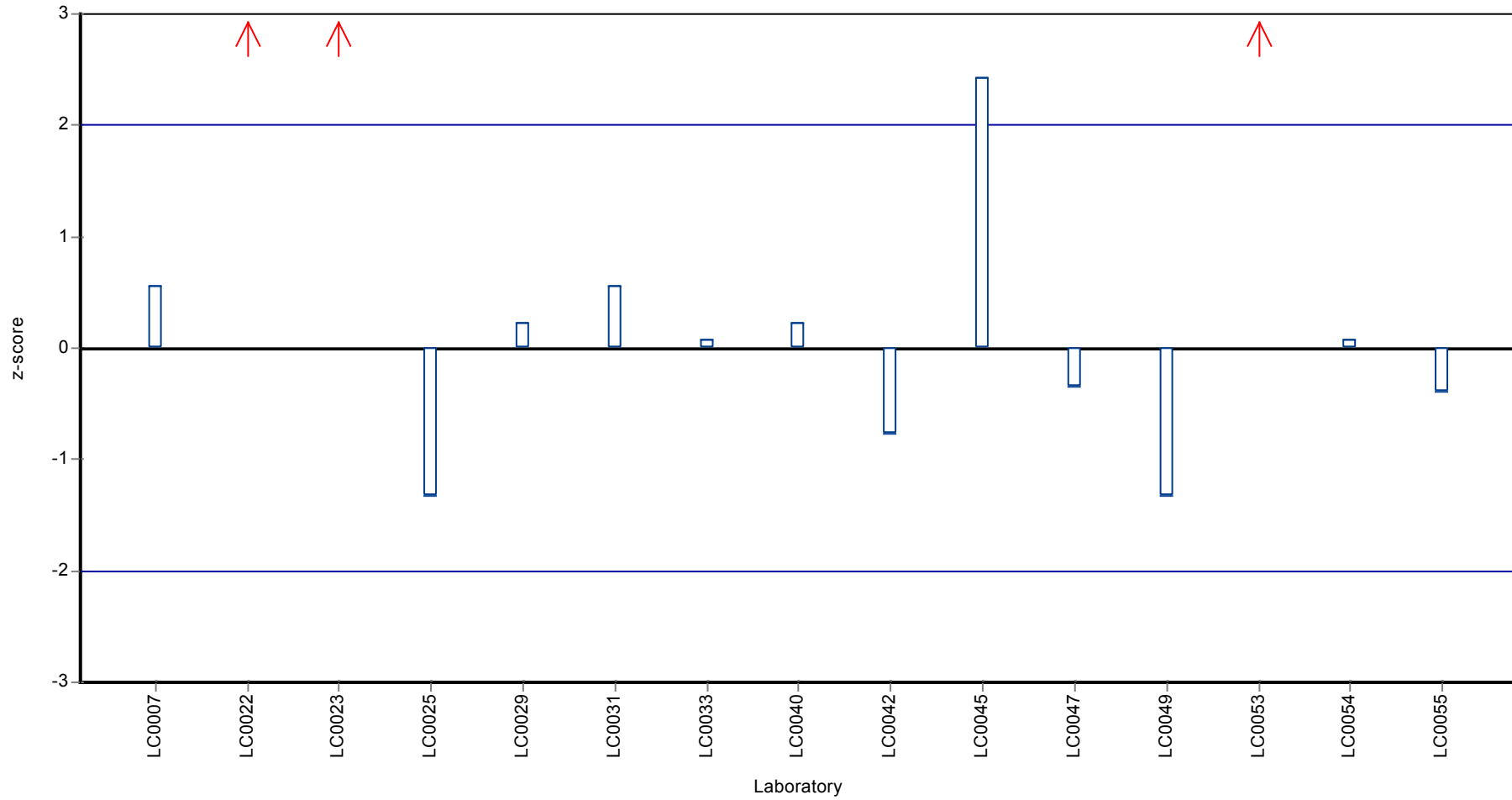
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Boron

Z-score



## Parameter oriented report

### N140 A

#### Calcium

Unit	mg/l
Mean ± CI (99%)	149 ± 2.47
Minimum - Maximum	138 - 160
Control test value ± U	147 ± 14.2

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	151.9	5	102	0.67	
LC0003	150.936	15.4	102	0.48	
LC0004	-	-	-	-	
LC0005	138	5.52	92.9	-2.1	
LC0006	153	13	103	0.89	
LC0007	142	-	95.6	-1.3	
LC0008	147.86	9.17	99.5	-0.13	
LC0009	144	1.08	96.9	-0.9	
LC0010	148	-	99.6	-0.11	
LC0011	146	-	98.3	-0.51	
LC0012	155	5	104	1.29	
LC0013	-	-	-	-	
LC0014	153.4739	0.013	103	0.99	
LC0015	150.94	30.19	102	0.48	
LC0016	149.57	22.4	101	0.21	
LC0017	-	-	-	-	
LC0018	147.01	5.29	99	-0.3	
LC0019	128.3	1.7	86.4	-4.04	H
LC0020	-	-	-	-	
LC0021	153	15.3	103	0.89	
LC0022	154	-	104	1.09	
LC0023	144	14	96.9	-0.9	
LC0024	154.95	15.5	104	1.28	
LC0025	150.4	7.5	101	0.37	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	141	2.1	94.9	-1.5	
LC0030	143.37	1.7	96.5	-1.03	
LC0031	152.4	6.096	103	0.77	
LC0032	146	11.7	98.3	-0.51	
LC0033	141.56	2.058	95.3	-1.39	
LC0034	149	7	100	0.09	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	148	15	99.6	-0.11	
LC0039	-	-	-	-	
LC0040	147.6762	2.8162	99.4	-0.17	
LC0041	-	-	-	-	

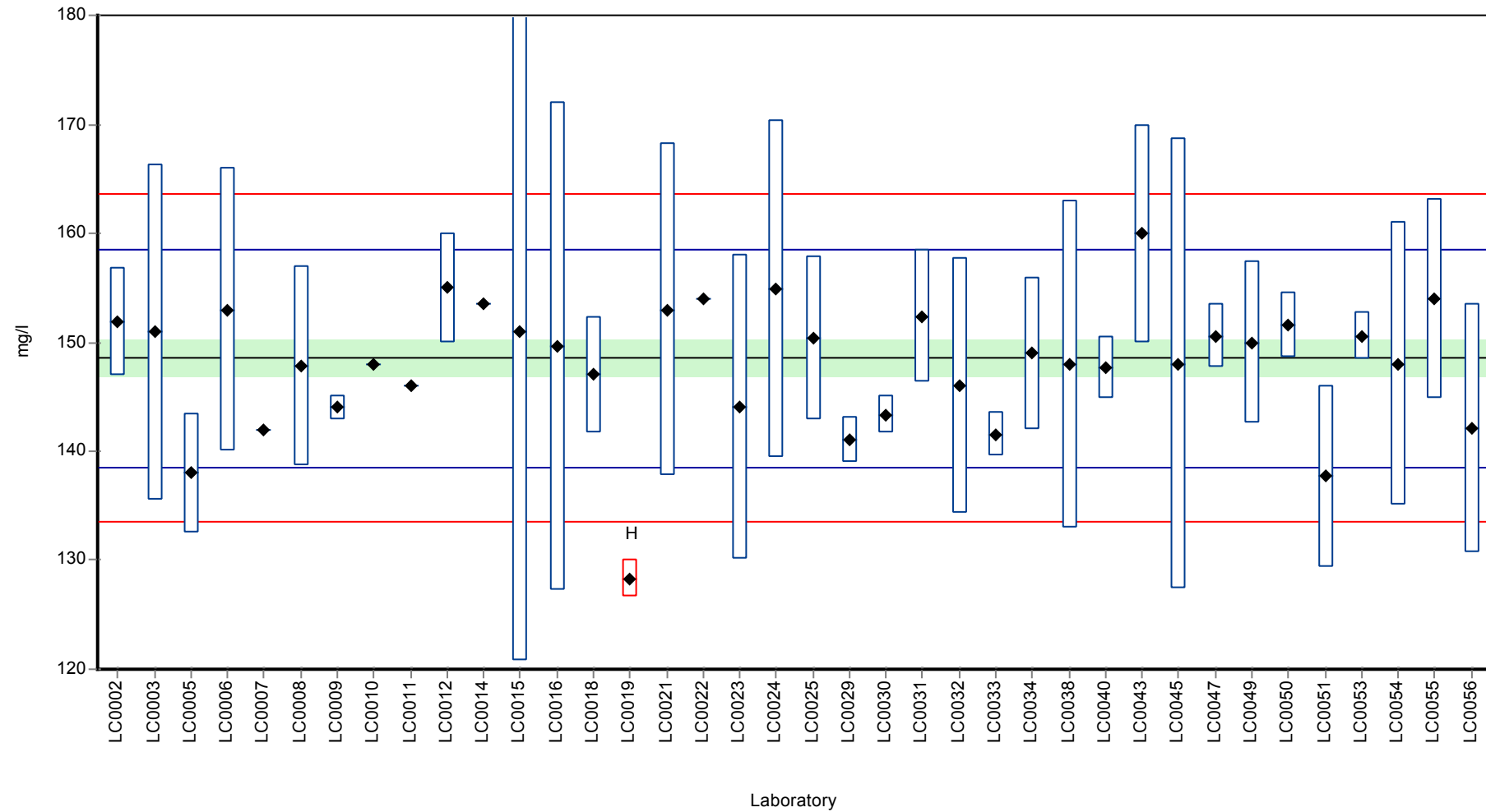
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	160	10	108	2.29	
LC0044	-	-	-	-	
LC0045	148	20.7	99.6	-0.11	
LC0046	-	-	-	-	
LC0047	150.6	3	101	0.41	
LC0048	-	-	-	-	
LC0049	150	7.5	101	0.29	
LC0050	151.63	3	102	0.62	
LC0051	137.7	8.37	92.7	-2.16	
LC0052	-	-	-	-	
LC0053	150.6	2.2	101	0.41	
LC0054	148	13	99.6	-0.11	
LC0055	154	9.2	104	1.09	
LC0056	142.1	11.4	95.7	-1.28	

#### Characteristics of parameter

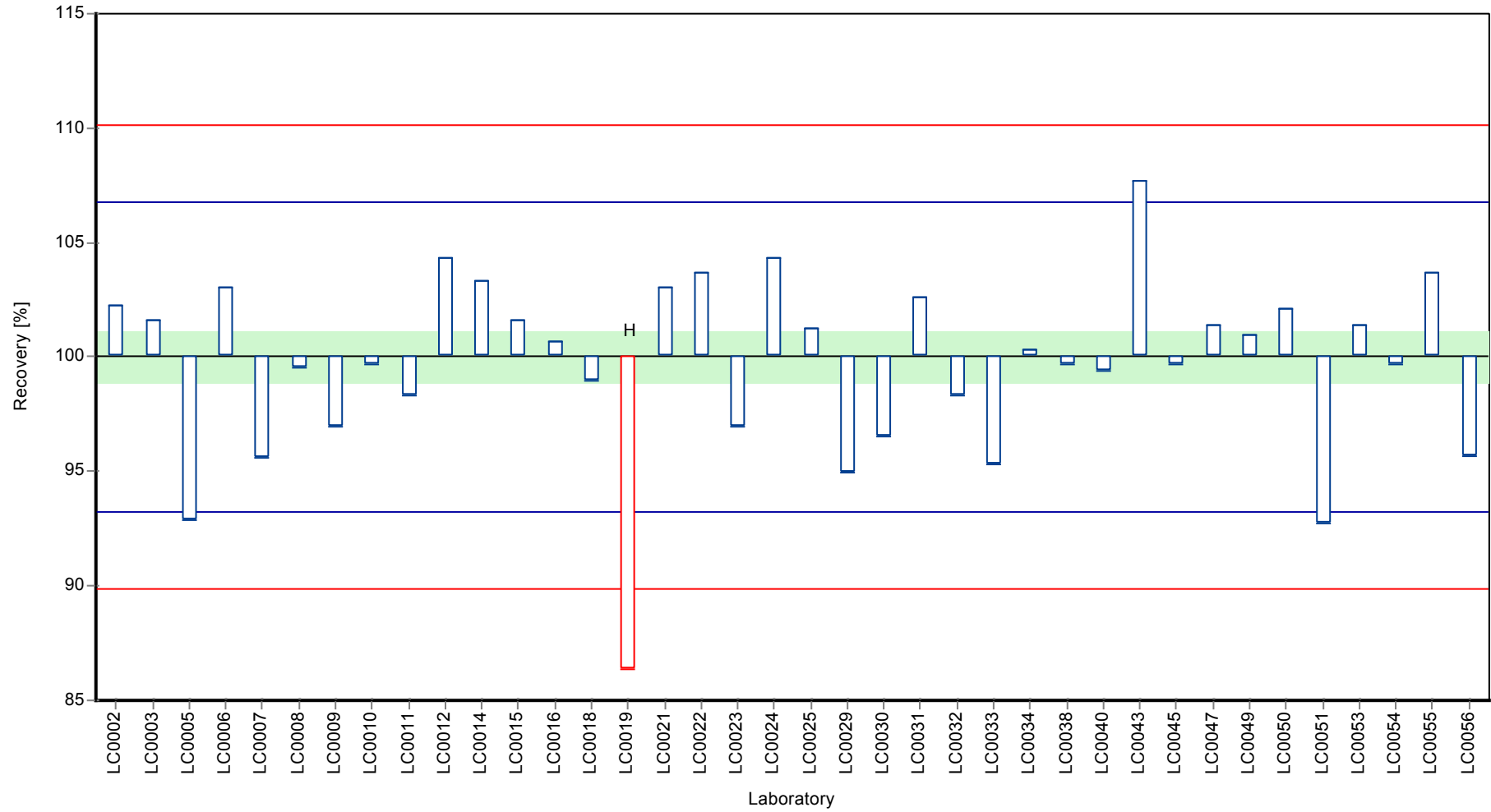
	all results	without outliers	Unit
Mean ± CI (99%)	148 ± 2.89	149 ± 2.47	mg/l
Minimum	128	138	mg/l
Maximum	160	160	mg/l
Standard deviation	5.93	5.01	mg/l
rel. Standard deviation	4.01	3.37	%
n	38	37	-

Graphical presentation of results

Results



Recovery rate

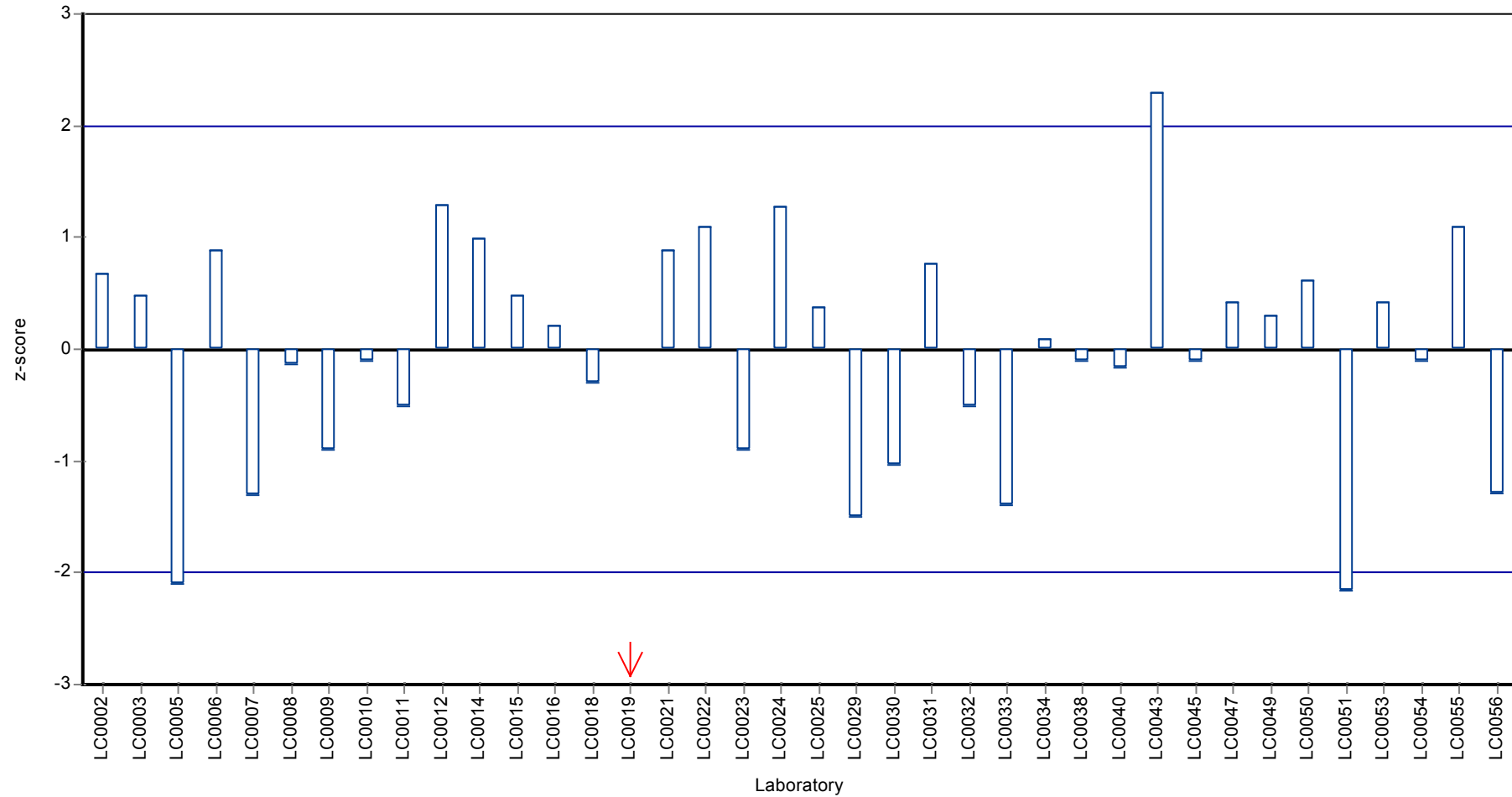




Parameter oriented report Major ions N140

Sample: N140A, Parameter: Calcium

Z-score



## Parameter oriented report

### N140 B

#### Calcium

Unit	mg/l
Mean ± CI (99%)	61.5 ± 0.874
Minimum - Maximum	57.9 - 64.2
Control test value ± U	60.6 ± 5.84

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	63.55	5	103	1.17	
LC0003	63.082	6.4	103	0.91	
LC0004	-	-	-	-	
LC0005	56.3	2.25	91.6	-2.92	H
LC0006	62	5	101	0.3	
LC0007	58.9	-	95.8	-1.45	
LC0008	62.18	3.86	101	0.4	
LC0009	61.8	0.383	101	0.18	
LC0010	63	-	102	0.86	
LC0011	60.5	-	98.4	-0.55	
LC0012	62.2	2	101	0.41	
LC0013	-	-	-	-	
LC0014	63.8651	0.0103	104	1.35	
LC0015	58.25	11.7	94.8	-1.82	
LC0016	62.92	9.44	102	0.82	
LC0017	-	-	-	-	
LC0018	61.42	2.21	99.9	-0.03	
LC0019	58.58	0.82	95.3	-1.63	
LC0020	-	-	-	-	
LC0021	62.8	6.28	102	0.75	
LC0022	61.8	-	101	0.18	
LC0023	60.9	6	99.1	-0.32	
LC0024	64.18	6.4	104	1.53	
LC0025	61.4	3.1	99.9	-0.04	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	58.8	1.1	95.7	-1.51	
LC0030	59.86	1.7	97.4	-0.91	
LC0031	62.64	2.506	102	0.66	
LC0032	59.8	4.8	97.3	-0.94	
LC0033	58.94	0.517	95.9	-1.43	
LC0034	62.6	3.5	102	0.64	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	62.1	6.3	101	0.35	
LC0039	-	-	-	-	
LC0040	61.0149	1.3195	99.3	-0.26	
LC0041	-	-	-	-	

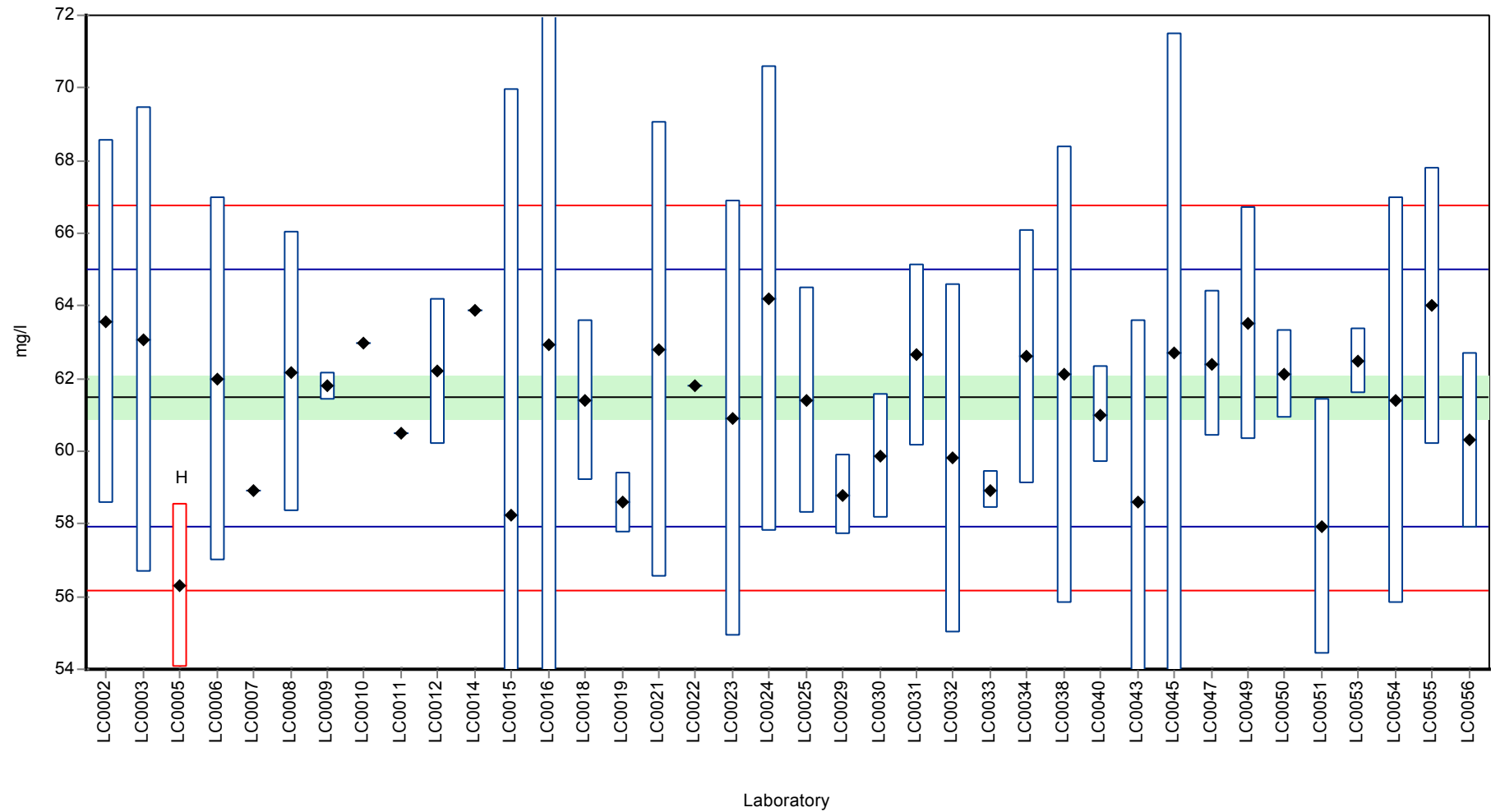
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	58.6	5	95.3	-1.62	
LC0044	-	-	-	-	
LC0045	62.7	8.8	102	0.69	
LC0046	-	-	-	-	
LC0047	62.4	2	102	0.52	
LC0048	-	-	-	-	
LC0049	63.5	3.2	103	1.14	
LC0050	62.12	1.2	101	0.36	
LC0051	57.93	3.52	94.2	-2	
LC0052	-	-	-	-	
LC0053	62.5	0.9	102	0.58	
LC0054	61.4	5.6	99.9	-0.04	
LC0055	64	3.8	104	1.43	
LC0056	60.3	2.4	98.1	-0.66	

#### Characteristics of parameter

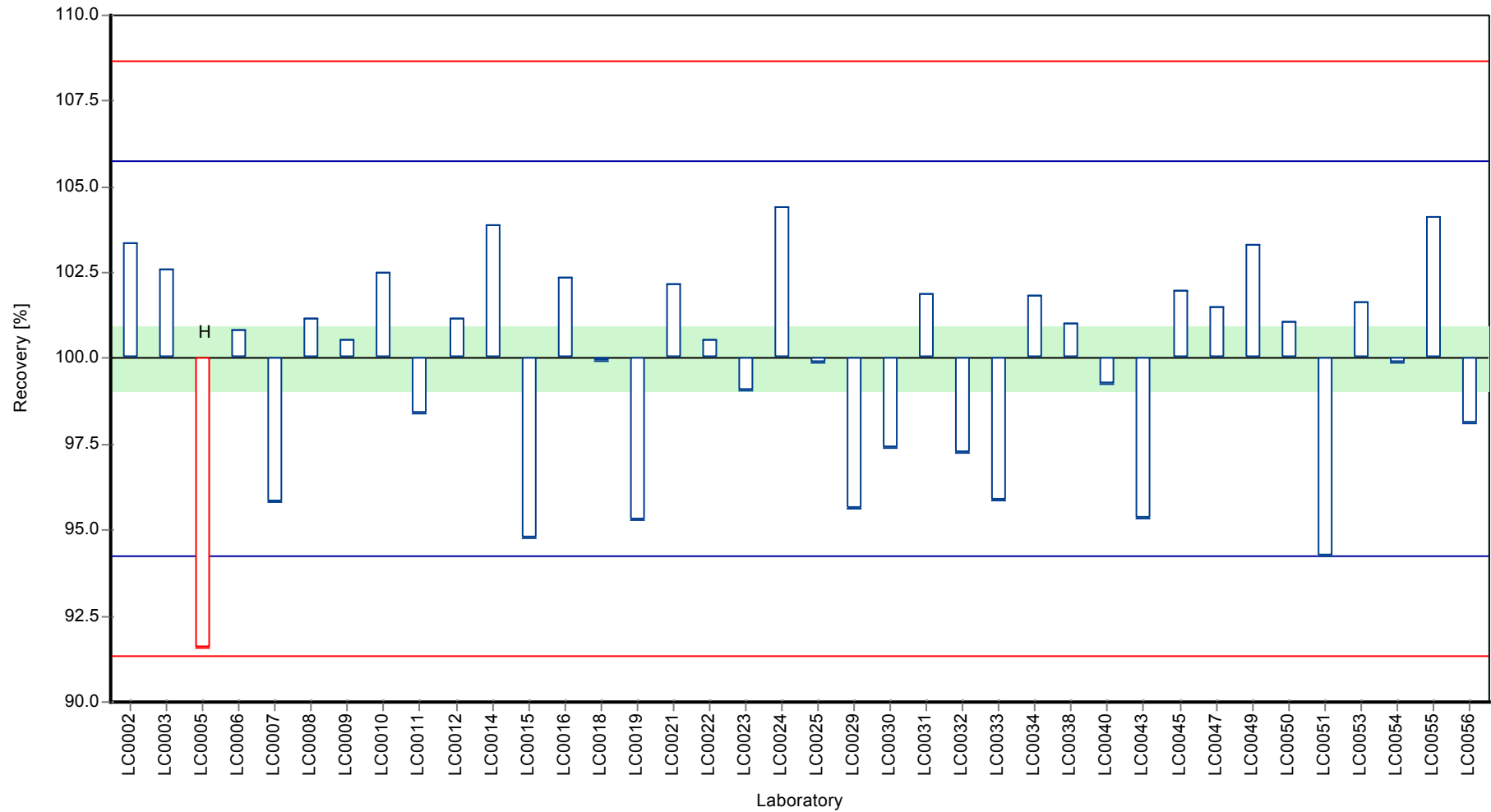
	all results	without outliers	Unit
Mean ± CI (99%)	61.3 ± 0.944	61.5 ± 0.874	mg/l
Minimum	56.3	57.9	mg/l
Maximum	64.2	64.2	mg/l
Standard deviation	1.94	1.77	mg/l
rel. Standard deviation	3.16	2.88	%
n	38	37	-

Graphical presentation of results

Results



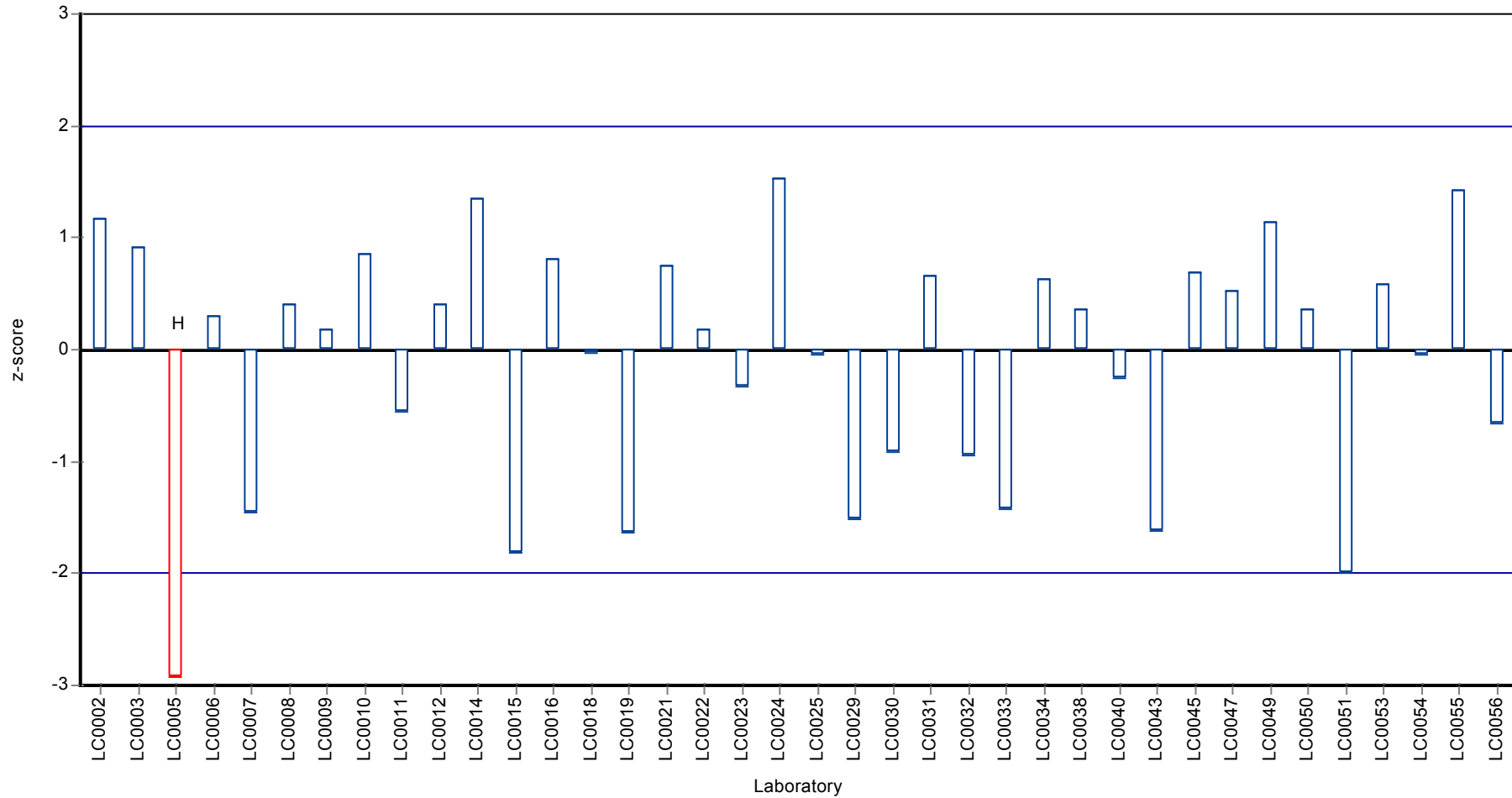
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Calcium

Z-score



## Parameter oriented report

### N140 A

#### Chloride

Unit	mg/l
Mean ± CI (99%)	121 ± 1.83
Minimum - Maximum	110 - 128
Control test value ± U	120 ± 6.3

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	126.8	1.5	105	1.54	
LC0002	105.5	1	87.3	-3.92	H
LC0003	121.861	6.5	101	0.28	
LC0004	120.3	12	99.6	-0.13	
LC0005	117	1.87	96.9	-0.97	
LC0006	122	9	101	0.31	
LC0007	110	-	91.1	-2.76	
LC0008	120.31	12.03	99.6	-0.12	
LC0009	120	0.97	99.3	-0.2	
LC0010	128	-	106	1.85	
LC0011	117	-	96.9	-0.97	
LC0012	105	6.2	86.9	-4.04	H
LC0013	121	1.81	100	0.05	
LC0014	118.7606	0.0094	98.3	-0.52	
LC0015	165.444	23.2	137	11.4	H
LC0016	118.8472	11.88	98.4	-0.5	
LC0017	123	-	102	0.57	
LC0018	121.63	10.7	101	0.22	
LC0019	95.11	0.91	78.7	-6.58	H
LC0020	-	-	-	-	
LC0021	118	11.8	97.7	-0.71	
LC0022	121	18	100	0.05	
LC0023	124	12	103	0.82	
LC0024	120.69	12	99.9	-0.02	
LC0025	120.6	3.6	99.8	-0.05	
LC0026	114	12	94.4	-1.74	
LC0027	124	-	103	0.82	
LC0028	-	-	-	-	
LC0029	127	1.2	105	1.59	
LC0030	117.24	0.2	97.1	-0.91	
LC0031	121.61	4.864	101	0.21	
LC0032	114	11.4	94.4	-1.74	
LC0033	119.34	0.246	98.8	-0.37	
LC0034	119	20	98.5	-0.46	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	125.6	12.6	104	1.23	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	128	10	106	1.85	
LC0044	122	-	101	0.31	
LC0045	119.8	30	99.2	-0.25	
LC0046	-	-	-	-	
LC0047	120.3	6	99.6	-0.13	
LC0048	-	-	-	-	
LC0049	121	6.1	100	0.05	
LC0050	127.66	1	106	1.76	
LC0051	118.31	4.79	97.9	-0.63	
LC0052	123	-	102	0.57	
LC0053	120	2.9	99.3	-0.2	
LC0054	122	6	101	0.31	
LC0055	123	11.1	102	0.57	
LC0056	114.6	8	94.9	-1.58	

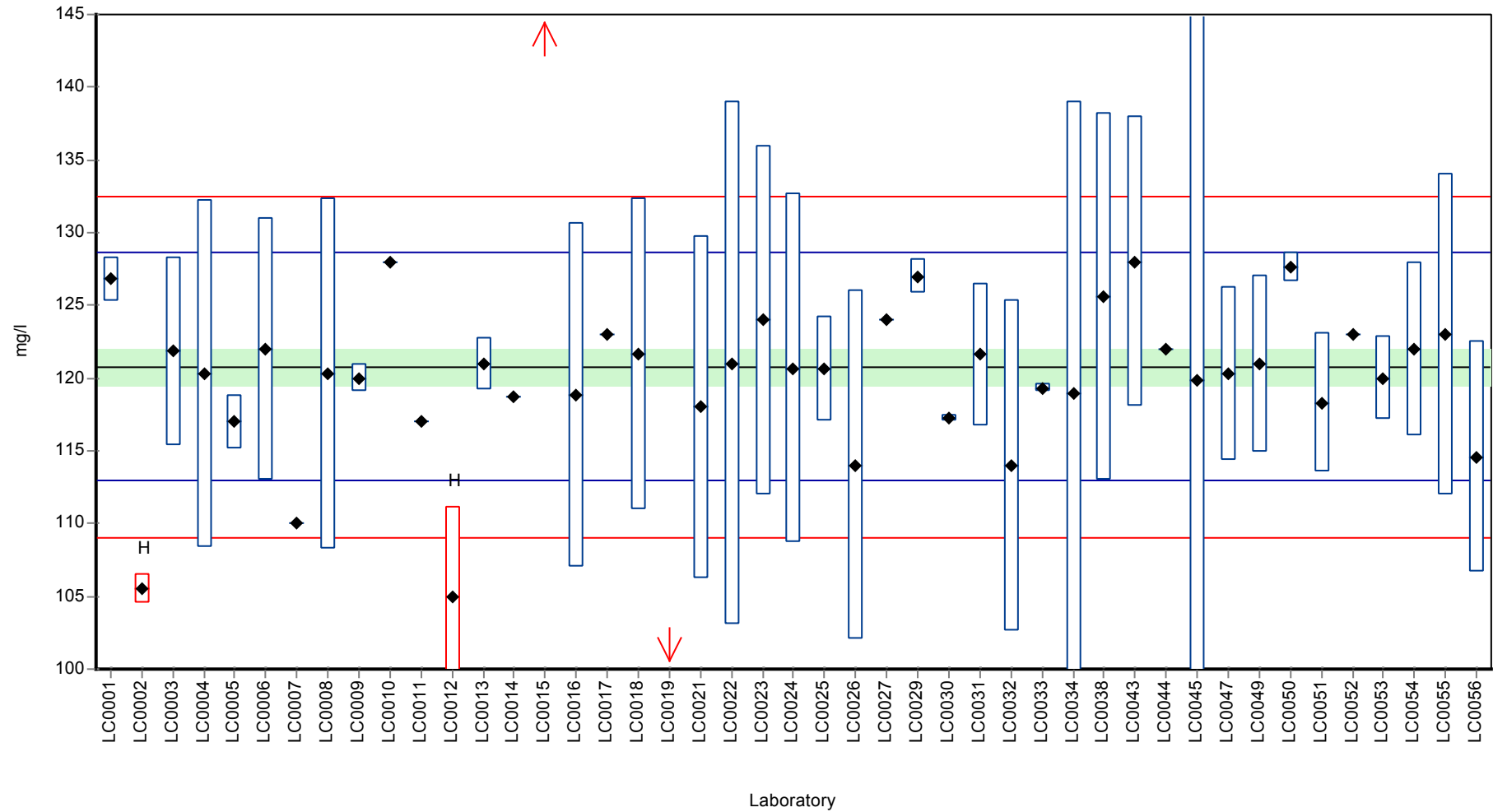
#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	121 ± 4.12	121 ± 1.83	mg/l
Minimum	95.1	110	mg/l
Maximum	165	128	mg/l
Standard deviation	9.22	3.9	mg/l
rel. Standard deviation	7.65	3.23	%
n	45	41	-

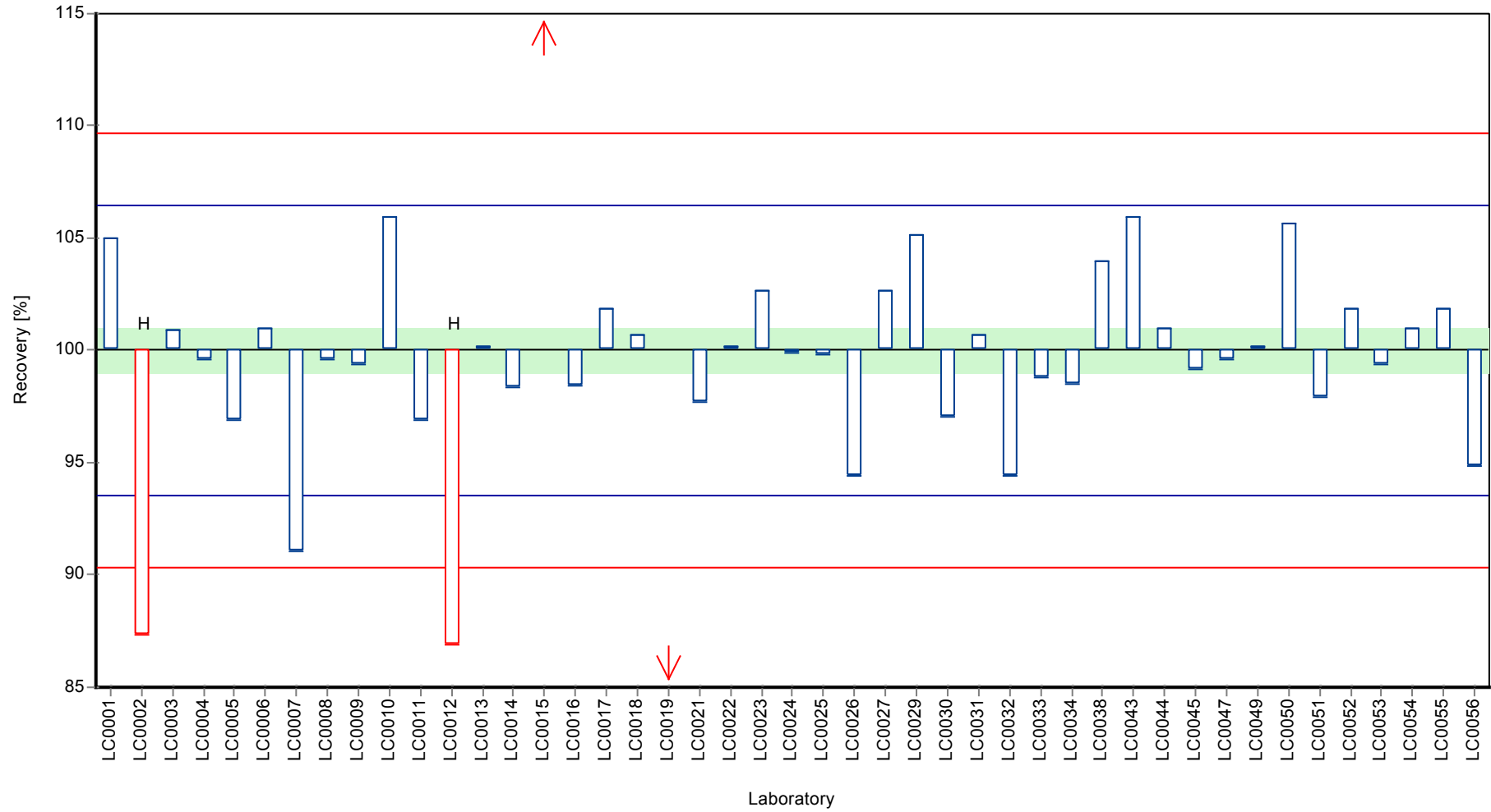


Graphical presentation of results

Results



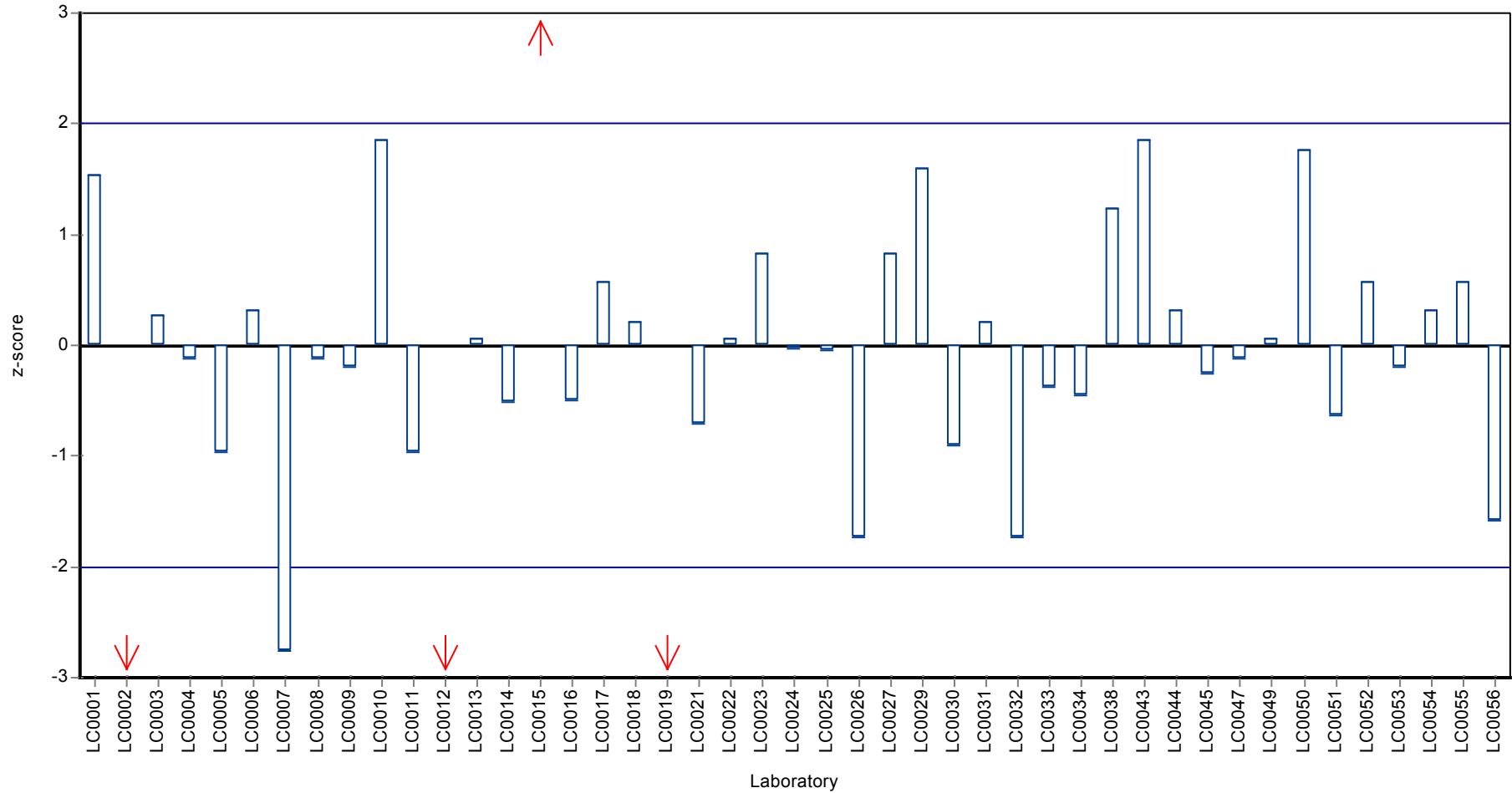
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Chloride

Z-score



## Parameter oriented report

### N140 B

#### Chloride

Unit	mg/l
Mean ± CI (99%)	20.8 ± 0.333
Minimum - Maximum	19 - 22.8
Control test value ± U	21.2 ± 1.1

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	21.4	1.2	103	0.85	
LC0002	21	1	101	0.29	
LC0003	20.794	1.1	100	0.00	
LC0004	20.7	2.1	99.5	-0.14	
LC0005	14.6	0.23	70.2	-8.73	H
LC0006	21.4	2	103	0.85	
LC0007	20	-	96.2	-1.12	
LC0008	21.39	2.14	103	0.84	
LC0009	20.6	0.12	99.1	-0.28	
LC0010	19	-	91.4	-2.53	
LC0011	20.6	-	99.1	-0.28	
LC0012	19.6	1.2	94.3	-1.68	
LC0013	20.8	1.65	100	0.01	
LC0014	21.9245	0.1192	105	1.59	
LC0015	22.858	3.2	110	2.91	H
LC0016	22.788	2.28	110	2.81	
LC0017	22	-	106	1.7	
LC0018	20.75	1.826	99.8	-0.06	
LC0019	20.73	0.15	99.7	-0.09	
LC0020	-	-	-	-	
LC0021	23	2.3	111	3.11	H
LC0022	20.2	3	97.1	-0.84	
LC0023	20.2	2	97.1	-0.84	
LC0024	20.91	2.1	101	0.16	
LC0025	20.8	0.6	100	0.01	
LC0026	20.2	2.2	97.1	-0.84	
LC0027	21.3	-	102	0.71	
LC0028	-	-	-	-	
LC0029	21.6	0.08	104	1.13	
LC0030	20.41	0.2	98.1	-0.54	
LC0031	21.21	0.848	102	0.58	
LC0032	19.8	1.98	95.2	-1.4	
LC0033	20.34	0.059	97.8	-0.64	
LC0034	20.5	3.5	98.6	-0.42	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	20.9	2.1	101	0.15	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

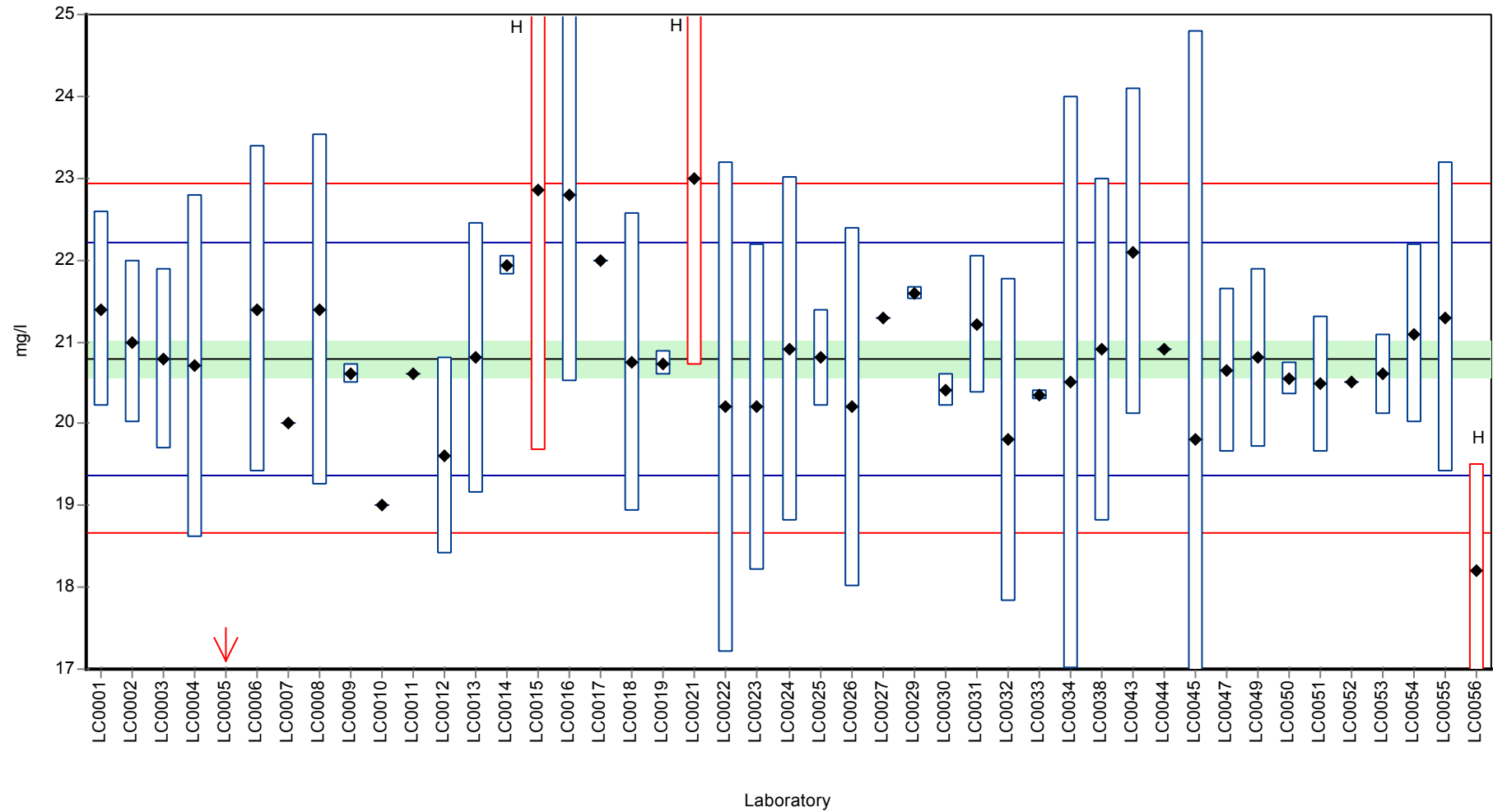
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	22.1	2	106	1.84	
LC0044	20.9	-	101	0.15	
LC0045	19.8	5	95.2	-1.4	
LC0046	-	-	-	-	
LC0047	20.65	1	99.3	-0.2	
LC0048	-	-	-	-	
LC0049	20.8	1.1	100	0.01	
LC0050	20.54	0.2	98.8	-0.36	
LC0051	20.48	0.83	98.5	-0.44	
LC0052	20.5	-	98.6	-0.42	
LC0053	20.6	0.5	99.1	-0.28	
LC0054	21.1	1.1	101	0.43	
LC0055	21.3	1.9	102	0.71	
LC0056	18.2	1.3	87.5	-3.66	H

#### Characteristics of parameter

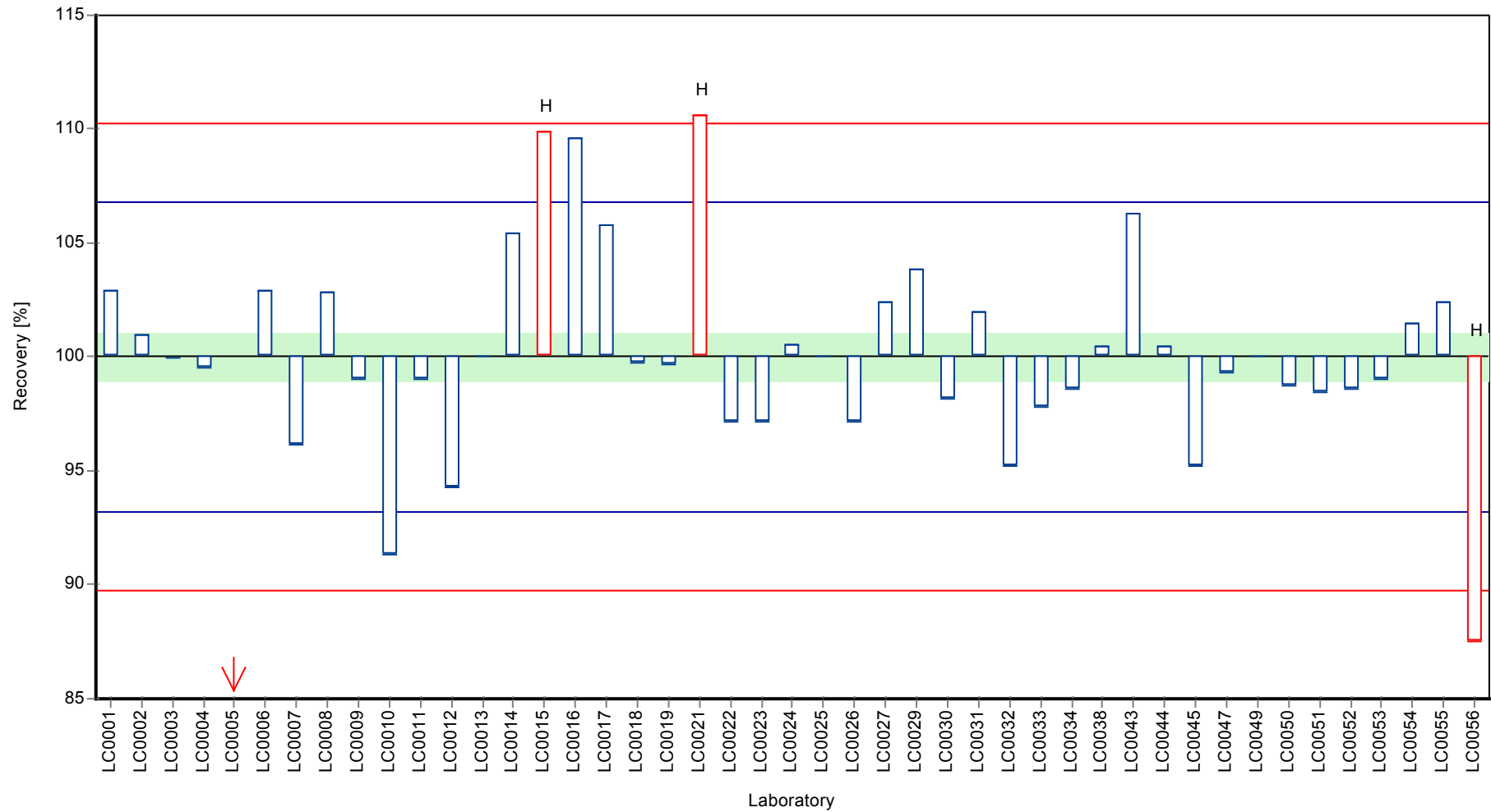
	all results	without outliers	Unit
Mean ± CI (99%)	20.7 ± 0.58	20.8 ± 0.333	mg/l
Minimum	14.6	19	mg/l
Maximum	23	22.8	mg/l
Standard deviation	1.3	0.71	mg/l
rel. Standard deviation	6.26	3.41	%
n	45	41	-

Graphical presentation of results

Results



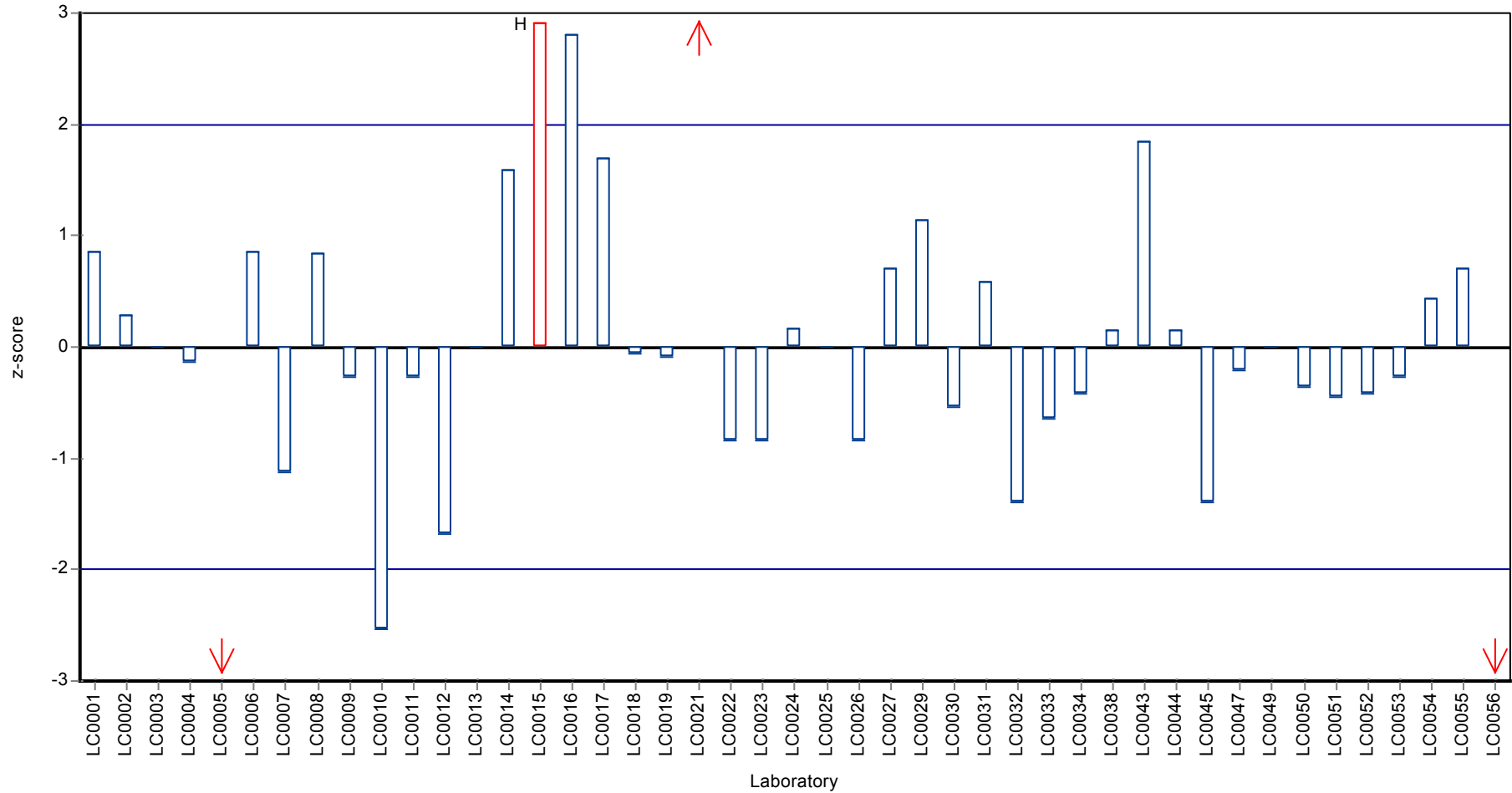
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Chloride

Z-score





## Parameter oriented report

### N140 A

#### DOC (as C)

Unit	mg/l
Mean ± CI (99%)	1.19 ± 0.0672
Minimum - Maximum	0.947 - 1.44
Control test value ± U	0.974 ± 0.372

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	1.21	0.22	101	0.14	
LC0005	-	-	-	-	
LC0006	1.2	0.2	101	0.05	
LC0007	1.35	-	113	1.34	
LC0008	1.1	0.08	92.1	-0.81	
LC0009	1.15	0.04	96.3	-0.38	
LC0010	-	-	-	-	
LC0011	1.26	-	106	0.57	
LC0012	1.19	0.05	99.7	-0.03	
LC0013	-	-	-	-	
LC0014	4.02	0.0382	337	24.3	H
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	5.41	0.81	453	36.2	H
LC0020	-	-	-	-	
LC0021	1.44	0.19	121	2.11	
LC0022	1.33	0.3	111	1.17	
LC0023	1.09	0.1	91.3	-0.89	
LC0024	1.279	0.13	107	0.73	
LC0025	1.14	0.11	95.5	-0.46	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	1.02	0.023	85.4	-1.49	
LC0030	1.81	0.2	152	5.29	H
LC0031	1.1	0.09	92.1	-0.81	
LC0032	1.41	0.41	118	1.86	
LC0033	14.6	0.999	1220	115	H
LC0034	1.08	0.24	90.5	-0.98	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	1.22	0.12	102	0.23	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	1.13	0.15	94.7	-0.55	

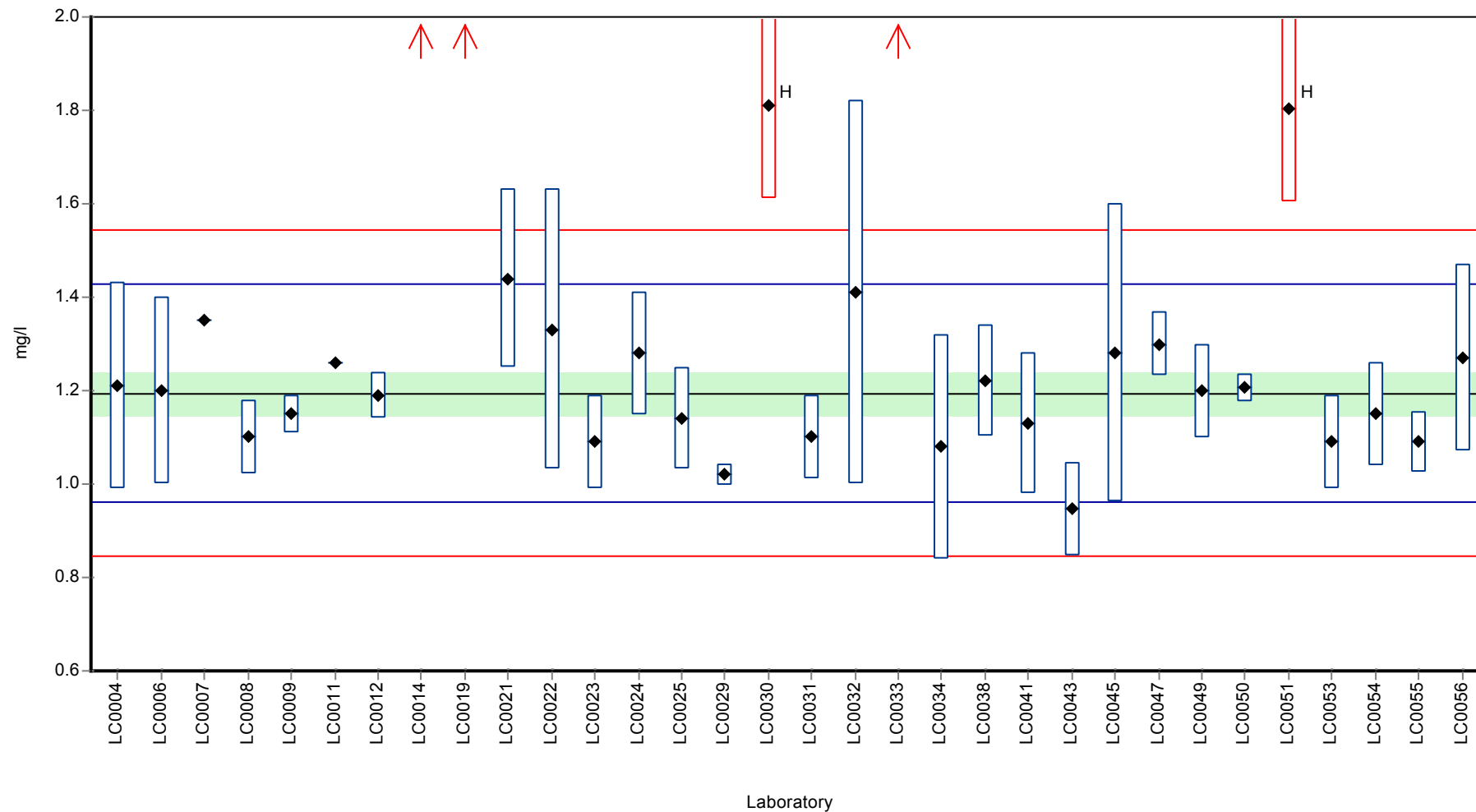
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	0.947	0.1	79.3	-2.12	
LC0044	-	-	-	-	
LC0045	1.28	0.32	107	0.74	
LC0046	-	-	-	-	
LC0047	1.3	0.07	109	0.91	
LC0048	-	-	-	-	
LC0049	1.2	0.1	101	0.05	
LC0050	1.206	0.03	101	0.1	
LC0051	1.803	0.198	151	5.23	H
LC0052	-	-	-	-	
LC0053	1.09	0.1	91.3	-0.89	
LC0054	1.15	0.11	96.3	-0.38	
LC0055	1.09	0.066	91.3	-0.89	
LC0056	1.27	0.2	106	0.66	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	1.87 ± 1.32	1.19 ± 0.0672	mg/l
Minimum	0.947	0.947	mg/l
Maximum	14.6	1.44	mg/l
Standard deviation	2.49	0.116	mg/l
rel. Standard deviation	133	9.75	%
n	32	27	-

Graphical presentation of results

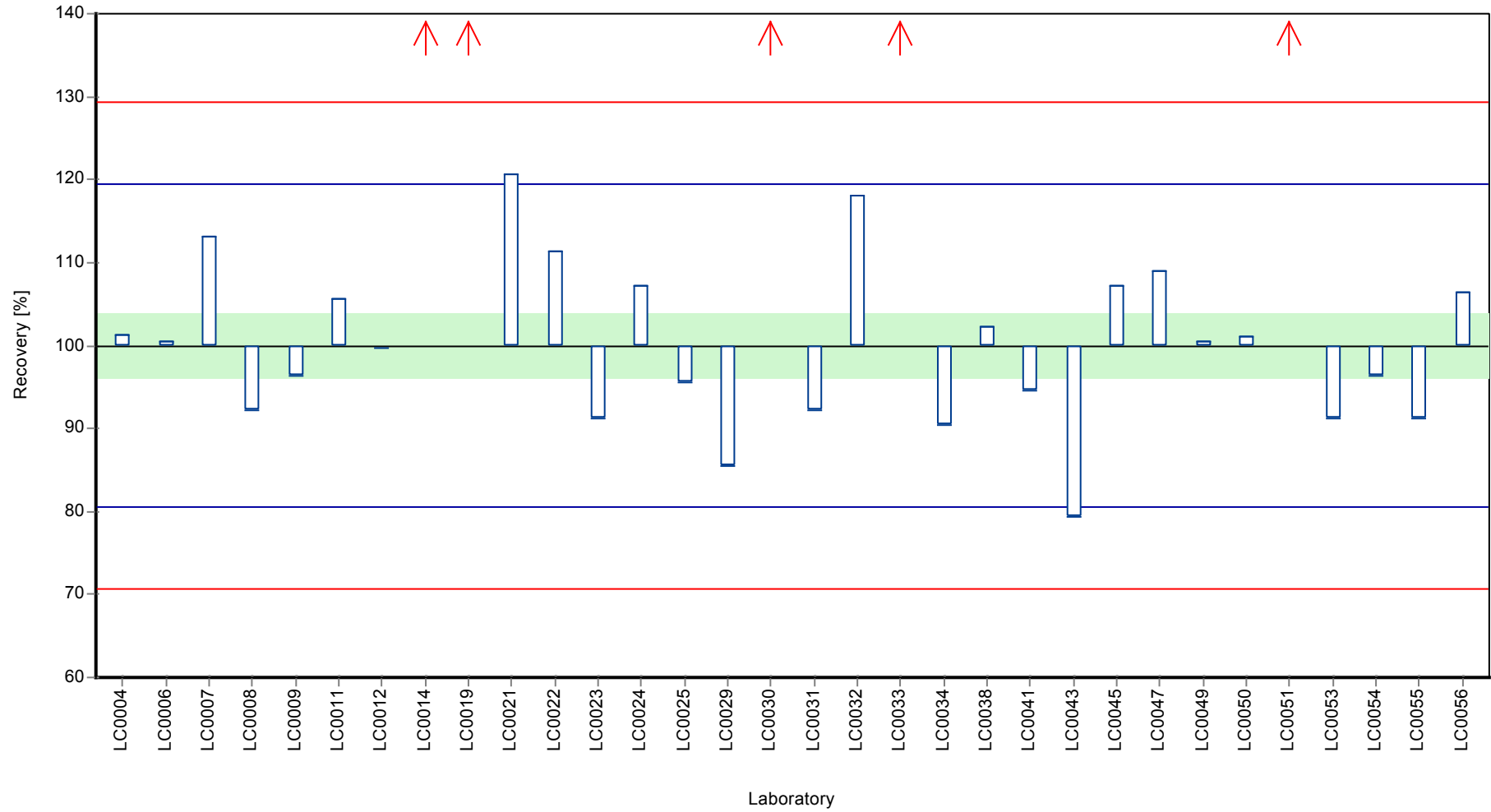
Results



Parameter oriented report Major ions N140

Sample: N140A, Parameter: DOC (as C)

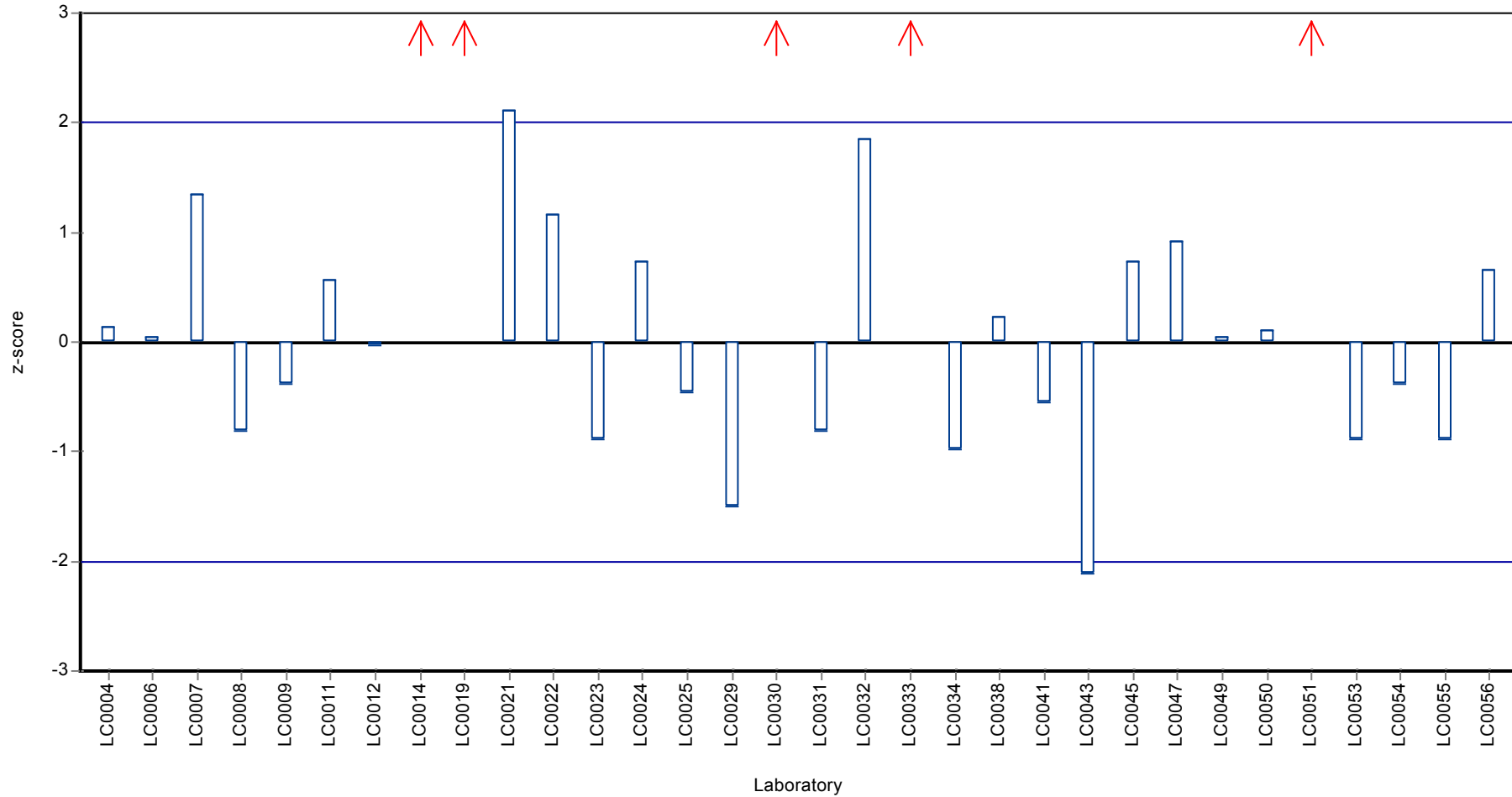
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: DOC (as C)

Z-score



## Parameter oriented report

### N140 B

#### DOC (as C)

Unit	mg/l
Mean ± CI (99%)	2.99 ± 0.0861
Minimum - Maximum	2.65 - 3.3
Control test value ± U	2.72 ± 0.51

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	3.25	0.59	109	1.75	
LC0005	-	-	-	-	
LC0006	3.11	0.5	104	0.81	
LC0007	2.98	-	99.7	-0.06	
LC0008	2.78	0.19	93	-1.4	
LC0009	3.11	0.04	104	0.81	
LC0010	-	-	-	-	
LC0011	2.97	-	99.4	-0.13	
LC0012	2.78	0.11	93	-1.4	
LC0013	-	-	-	-	
LC0014	3.7227	0.1485	125	4.92	H
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	8.12	0.55	272	34.4	H
LC0020	-	-	-	-	
LC0021	3.24	0.42	108	1.68	
LC0022	2.81	0.7	94	-1.2	
LC0023	2.95	0.3	98.7	-0.26	
LC0024	2.907	0.29	97.2	-0.55	
LC0025	3.04	0.3	102	0.34	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	2.8	0.093	93.7	-1.27	
LC0030	3.3	0.2	110	2.08	
LC0031	3	0.24	100	0.07	
LC0032	3.1	0.9	104	0.74	
LC0033	4.37	0.295	146	9.26	H
LC0034	2.34	0.3	78.3	-4.36	H
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	2.94	0.29	98.3	-0.33	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	2.97	0.38	99.4	-0.13	

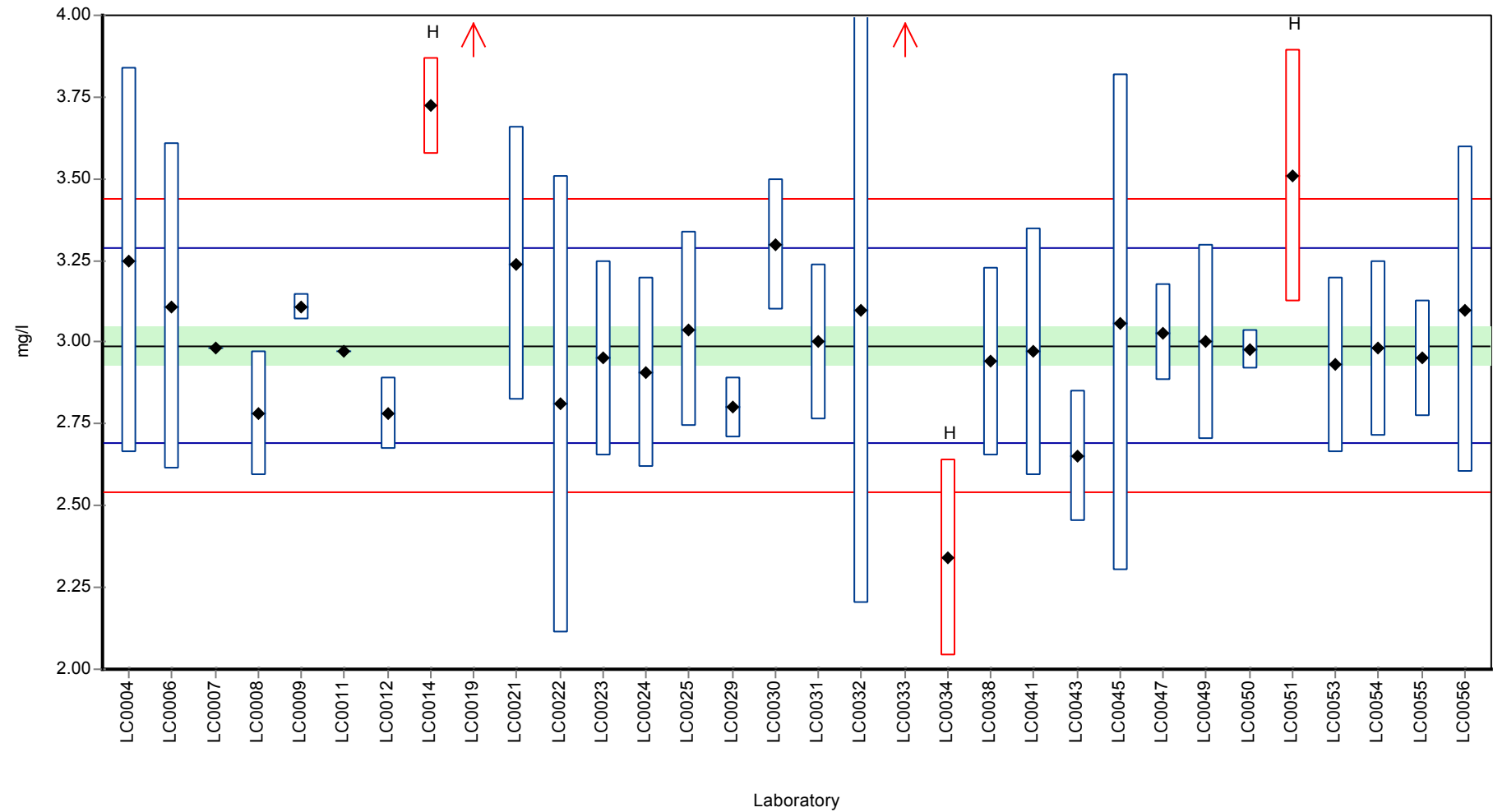
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	2.65	0.2	88.6	-2.28	
LC0044	-	-	-	-	
LC0045	3.06	0.76	102	0.47	
LC0046	-	-	-	-	
LC0047	3.03	0.15	101	0.27	
LC0048	-	-	-	-	
LC0049	3	0.3	100	0.07	
LC0050	2.977	0.06	99.6	-0.08	
LC0051	3.508	0.386	117	3.48	H
LC0052	-	-	-	-	
LC0053	2.93	0.27	98	-0.4	
LC0054	2.98	0.27	99.7	-0.06	
LC0055	2.95	0.177	98.7	-0.26	
LC0056	3.1	0.5	104	0.74	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	3.21 ± 0.508	2.99 ± 0.0861	mg/l
Minimum	2.34	2.65	mg/l
Maximum	8.12	3.3	mg/l
Standard deviation	0.958	0.149	mg/l
rel. Standard deviation	29.8	4.99	%
n	32	27	-

Graphical presentation of results

Results

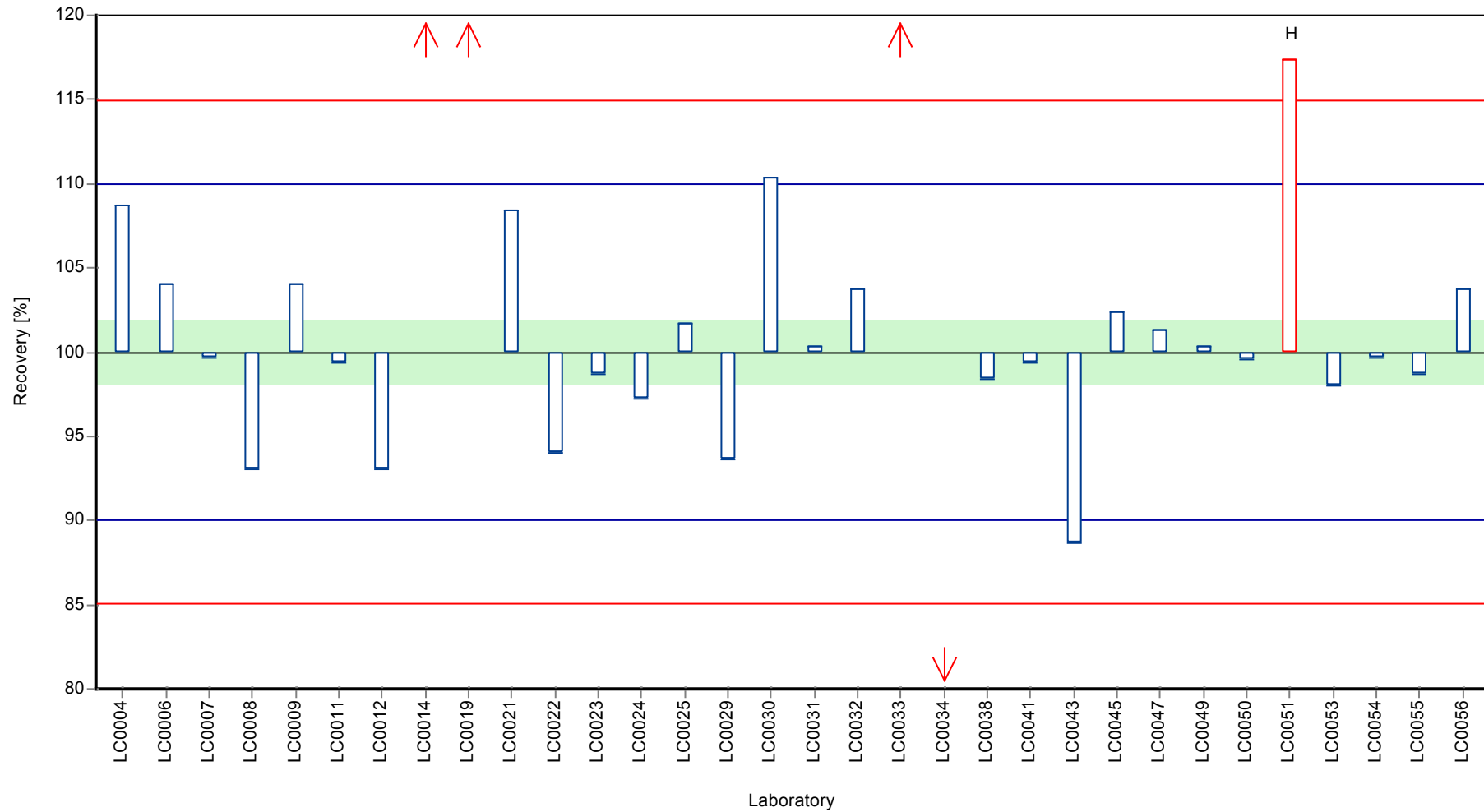




Parameter oriented report Major ions N140

Sample: N140B, Parameter: DOC (as C)

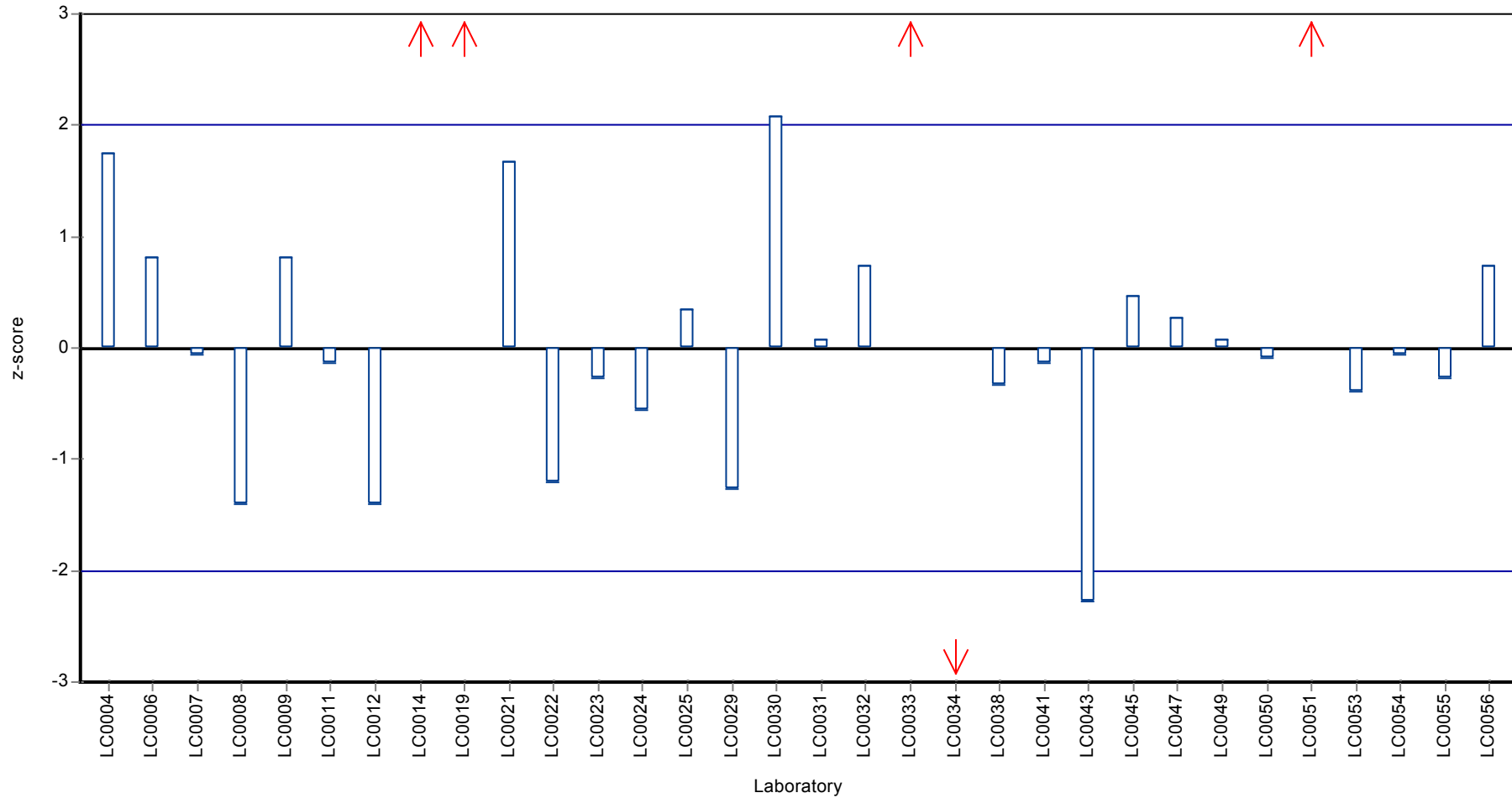
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: DOC (as C)

Z-score



## Parameter oriented report

### N140 A

#### Total-P (as PO4)

Unit	mg/l
Mean ± CI (99%)	0.034 ± 0.00767
Minimum - Maximum	0.009 - 0.07
Control test value ± U	0.0306 ± 0.0071

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	< 0.015 (LOQ)	-	-	-	
LC0005	0.049	0.004	144	1.2	
LC0006	0.03	0.003	88.2	-0.32	
LC0007	0.038	-	112	0.32	
LC0008	-	-	-	-	
LC0009	0.0968	0.002	285	5.01	H
LC0010	0.03	-	88.2	-0.32	
LC0011	0.046	-	135	0.96	
LC0012	< 0.9 (LOQ)	-	-	-	
LC0013	-	-	-	-	
LC0014	0.056	0.0519	165	1.76	
LC0015	0.255	0.055	750	17.6	H
LC0016	-	-	-	-	
LC0017	< 0.05 (LOQ)	-	-	-	
LC0018	0.199	0.1	585	13.2	H
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	0.031	-	91.2	-0.24	
LC0023	< 0.05 (LOQ)	-	-	-	
LC0024	0.033	0.003	97	-0.08	
LC0025	0.07	0.007	206	2.87	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	0.0245	0.001	72	-0.76	
LC0030	0.028	0.005	82.3	-0.48	
LC0031	0.0368	0.005	108	0.22	
LC0032	0.018	0.004	52.9	-1.28	
LC0033	0.086	0.003	253	4.15	H
LC0034	0.038	0.008	112	0.32	
LC0035	-	-	-	-	
LC0036	0.037	0.001	109	0.24	
LC0037	-	-	-	-	
LC0038	0.037	0.004	109	0.24	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

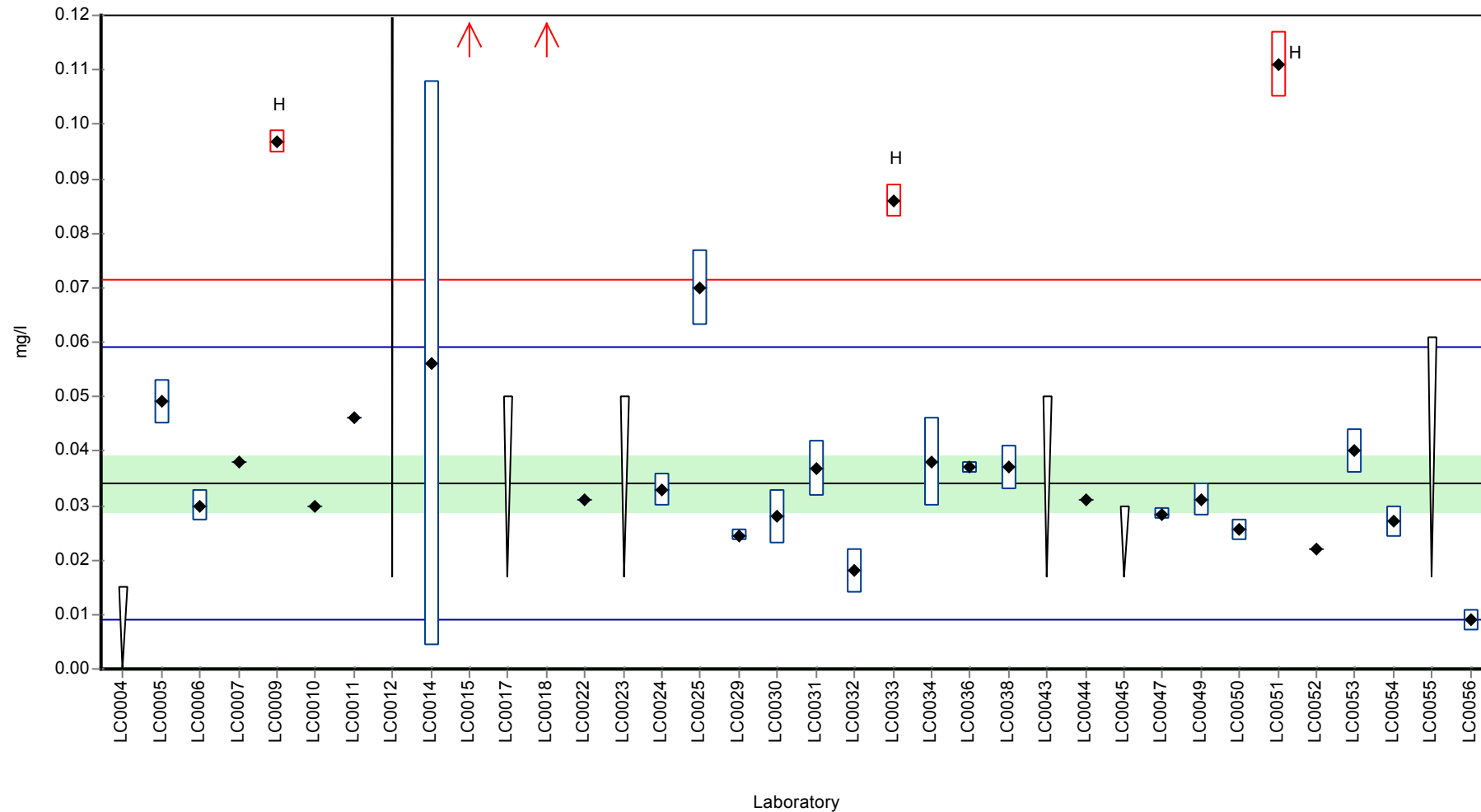
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	< 0.05 (LOQ)	-	-	-	
LC0044	0.031	-	91.2	-0.24	
LC0045	< 0.03 (LOQ)	-	-	-	
LC0046	-	-	-	-	
LC0047	0.0284	0.001	83.5	-0.45	
LC0048	-	-	-	-	
LC0049	0.031	0.003	91.2	-0.24	
LC0050	0.0255	0.002	75	-0.68	
LC0051	0.111	0.006	326	6.15	H
LC0052	0.022	-	64.7	-0.96	
LC0053	0.04	0.004	118	0.48	
LC0054	0.027	0.003	79.4	-0.56	
LC0055	< 0.061 (LOQ)	-	-	-	
LC0056	0.009	0.002	26.5	-2	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.0539 ± 0.0299	0.034 ± 0.00767	mg/l
Minimum	0.009	0.009	mg/l
Maximum	0.255	0.07	mg/l
Standard deviation	0.0537	0.0125	mg/l
rel. Standard deviation	99.6	36.8	%
n	29	24	-

Graphical presentation of results

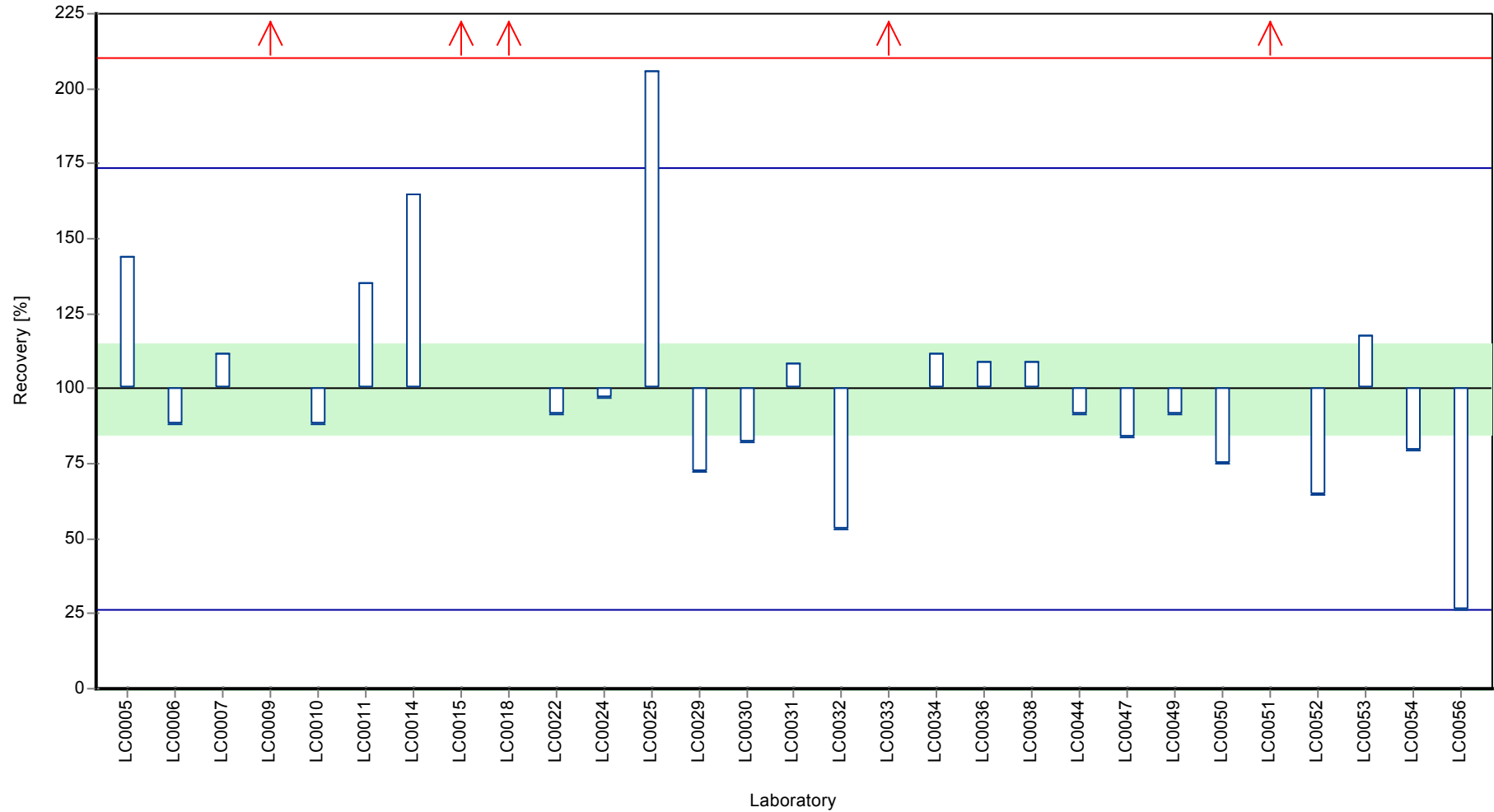
Results



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Total-P (as PO4)

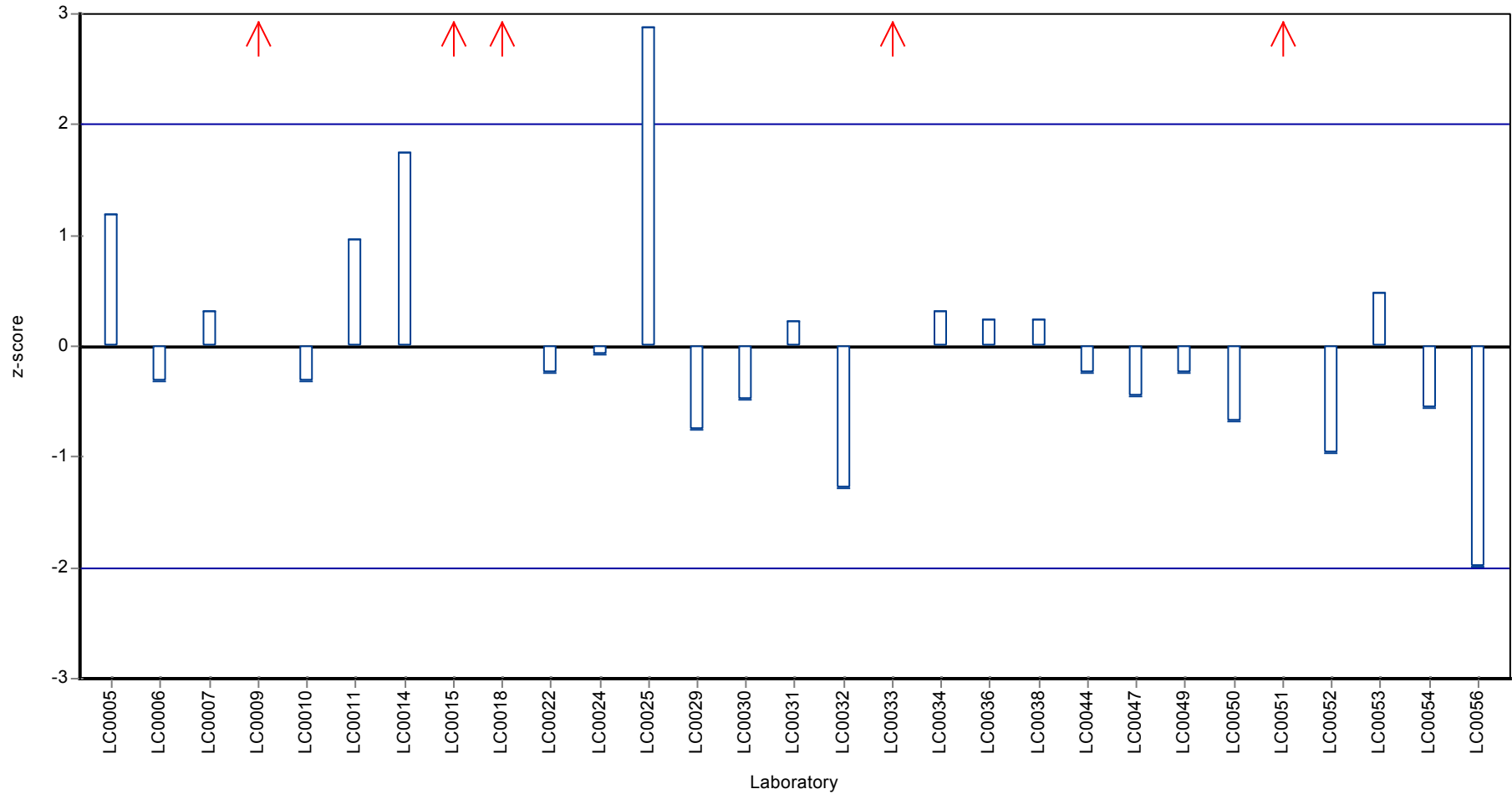
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Total-P (as PO4)

Z-score



## Parameter oriented report

### N140 B

#### Total-P (as PO4)

Unit	mg/l
Mean ± CI (99%)	0.528 ± 0.0306
Minimum - Maximum	0.435 - 0.68
Control test value ± U	0.542 ± 0.121

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	0.479	0.057	90.8	-0.89	
LC0005	0.508	0.04	96.3	-0.36	
LC0006	0.537	0.06	102	0.17	
LC0007	0.582	-	110	0.99	
LC0008	-	-	-	-	
LC0009	0.4574	0.0108	86.7	-1.28	
LC0010	0.54	-	102	0.22	
LC0011	0.558	-	106	0.55	
LC0012	< 0.9 (LOQ)	-	-	-	
LC0013	-	-	-	-	
LC0014	0.6316	0.1066	120	1.89	
LC0015	0.68	0.15	129	2.77	
LC0016	-	-	-	-	
LC0017	< 0.21 (LOQ)	-	-	-	FN
LC0018	0.725	0.021	137	3.59	H
LC0019	0.16	0.01	30.3	-6.7	H
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	0.435	-	82.4	-1.69	
LC0023	0.53	0.05	100	0.04	
LC0024	0.585	0.06	111	1.04	
LC0025	0.646	0.065	122	2.15	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	0.471	0.004	89.3	-1.03	
LC0030	0.511	0.005	96.8	-0.3	
LC0031	0.5182	0.0779	98.2	-0.17	
LC0032	0.507	0.101	96.1	-0.38	
LC0033	0.697	0.011	132	3.08	H
LC0034	0.506	0.093	95.9	-0.4	
LC0035	-	-	-	-	
LC0036	0.78	0.13	148	4.6	H
LC0037	-	-	-	-	
LC0038	0.494	0.05	93.6	-0.61	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Total-P (as PO4)

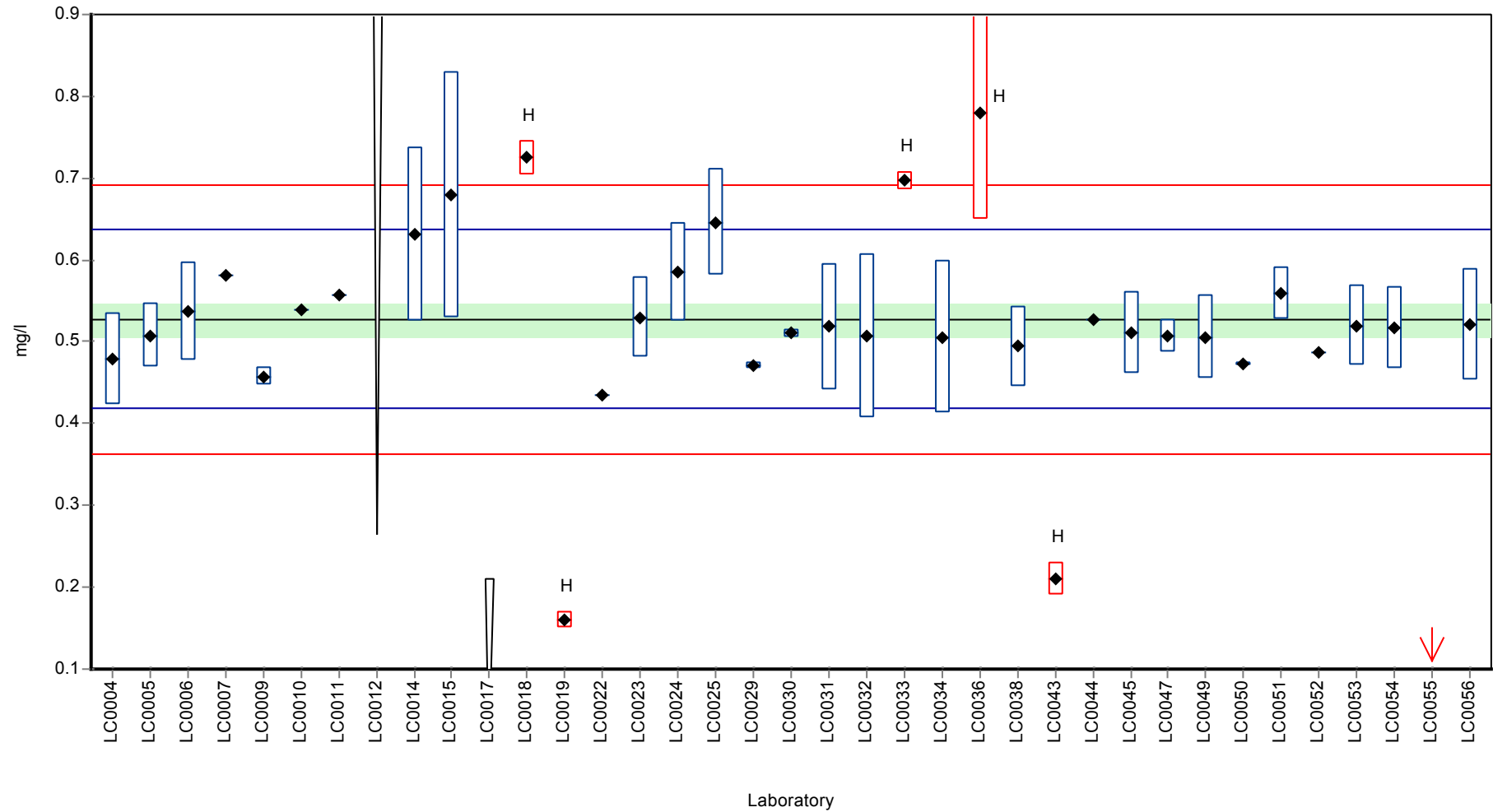
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	0.21	0.02	39.8	-5.79	H
LC0044	0.527	-	99.9	-0.01	
LC0045	0.511	0.051	96.8	-0.3	
LC0046	-	-	-	-	
LC0047	0.5067	0.02	96	-0.38	
LC0048	-	-	-	-	
LC0049	0.506	0.051	95.9	-0.4	
LC0050	0.4732	0.002	89.7	-0.99	
LC0051	0.559	0.032	106	0.57	
LC0052	0.486	-	92.1	-0.76	
LC0053	0.52	0.05	98.5	-0.14	
LC0054	0.517	0.05	98	-0.2	
LC0055	0.064	0.0064	12.1	-8.45	H
LC0056	0.521	0.068	98.7	-0.12	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.513 ± 0.0706	0.528 ± 0.0306	mg/l
Minimum	0.064	0.435	mg/l
Maximum	0.78	0.68	mg/l
Standard deviation	0.139	0.0549	mg/l
rel. Standard deviation	27.2	10.4	%
n	35	29	-

Graphical presentation of results

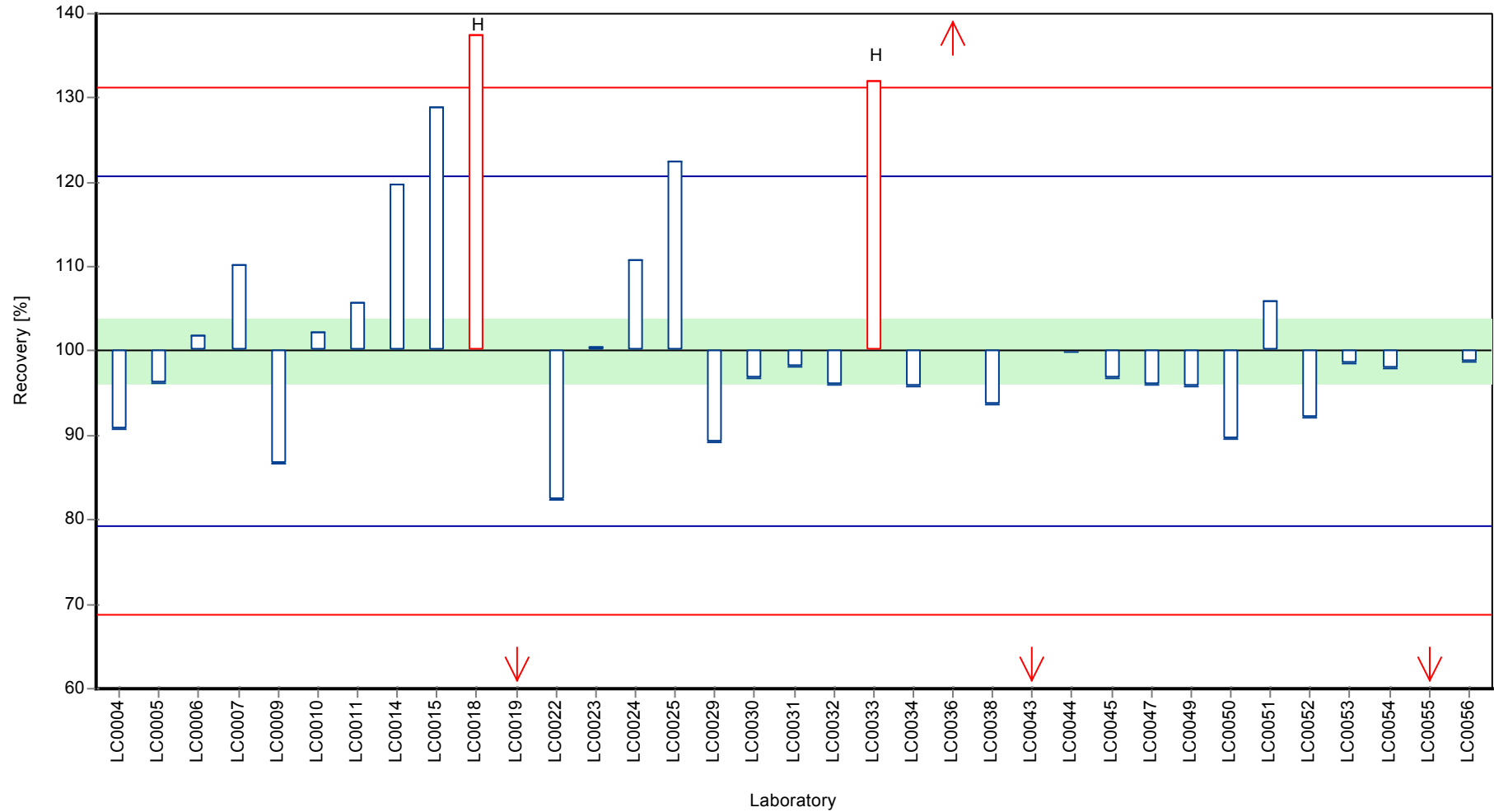
Results



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Total-P (as PO4)

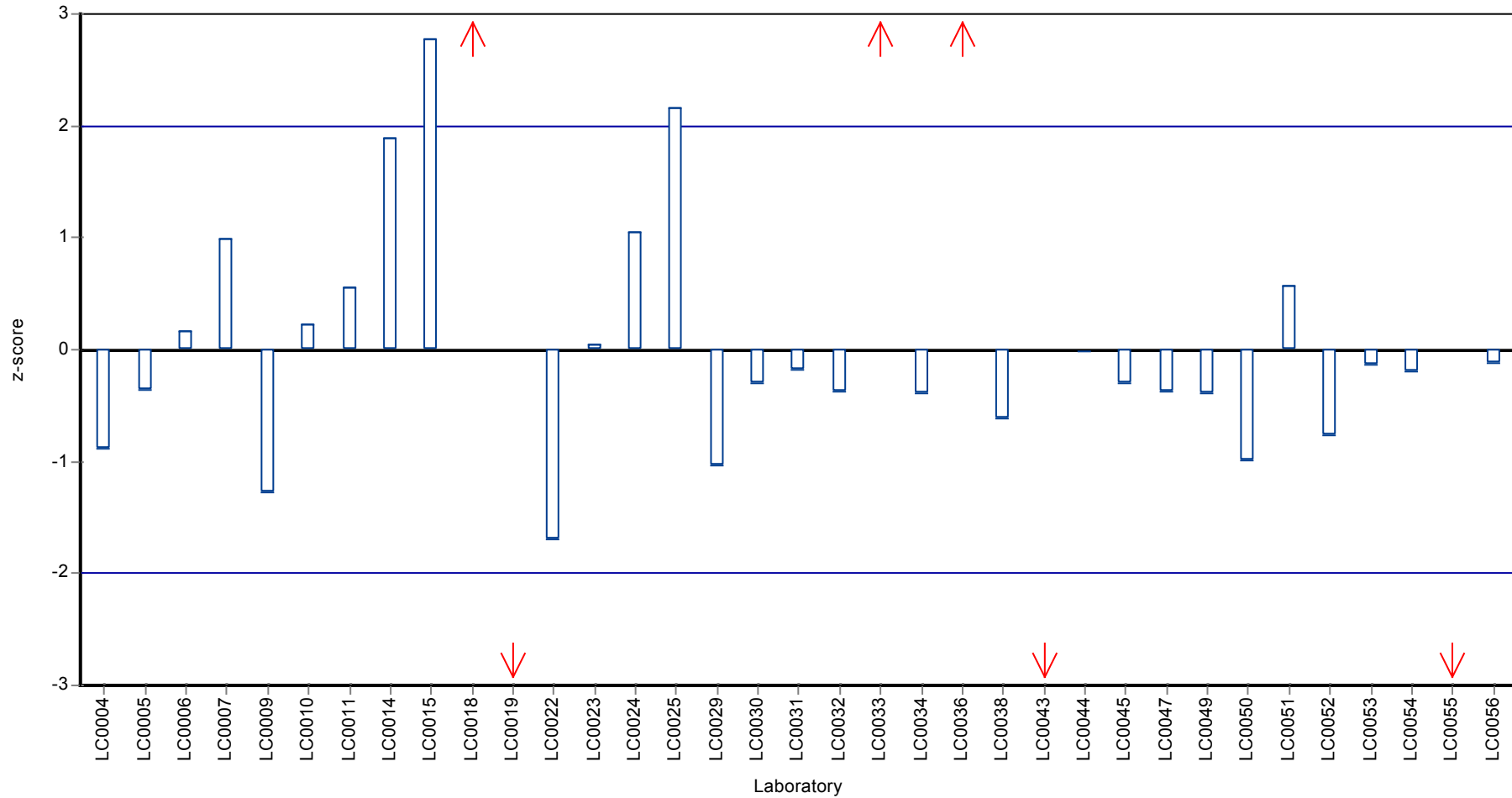
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Total-P (as PO4)

Z-score



## Parameter oriented report

### N140 A

#### Total hardness

Unit	°d
Mean ± CI (99%)	36.1 ± 0.463
Minimum - Maximum	33.9 - 37.7
Control test value ± U	35.5 ± 3.74

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	36.9	0.53	102	0.94	
LC0003	64.828	6.5	180	33.5	H
LC0004	-	-	-	-	
LC0005	69.3	2.8	192	38.7	H
LC0006	36.3	2	101	0.24	
LC0007	34.5	-	95.6	-1.85	
LC0008	35.68	2.21	98.9	-0.48	
LC0009	35	0.163	97	-1.27	
LC0010	36.16	-	100	0.08	
LC0011	-	-	-	-	
LC0012	36.9	1.5	102	0.94	
LC0013	36.1	2.7	100	0.01	
LC0014	36.9211	0.0001	102	0.97	
LC0015	12.19	2.19	33.8	-27.8	H
LC0016	12.122	1.82	33.6	-27.9	H
LC0017	-	-	-	-	
LC0018	35.84	3.51	99.3	-0.29	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	36.5	-	101	0.48	
LC0023	35	3.5	97	-1.27	
LC0024	37.07	-	103	1.14	
LC0025	35.7	1.8	98.9	-0.46	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	33.9	0.56	93.9	-2.55	
LC0030	36.44	0.56	101	0.41	
LC0031	36.5	-	101	0.48	
LC0032	36.2	3.3	100	0.13	
LC0033	36.98	0.56	102	1.04	
LC0034	35.8	-	99.2	-0.34	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	36.1	3.6	100	0.01	
LC0039	-	-	-	-	
LC0040	36.3	-	101	0.24	
LC0041	-	-	-	-	

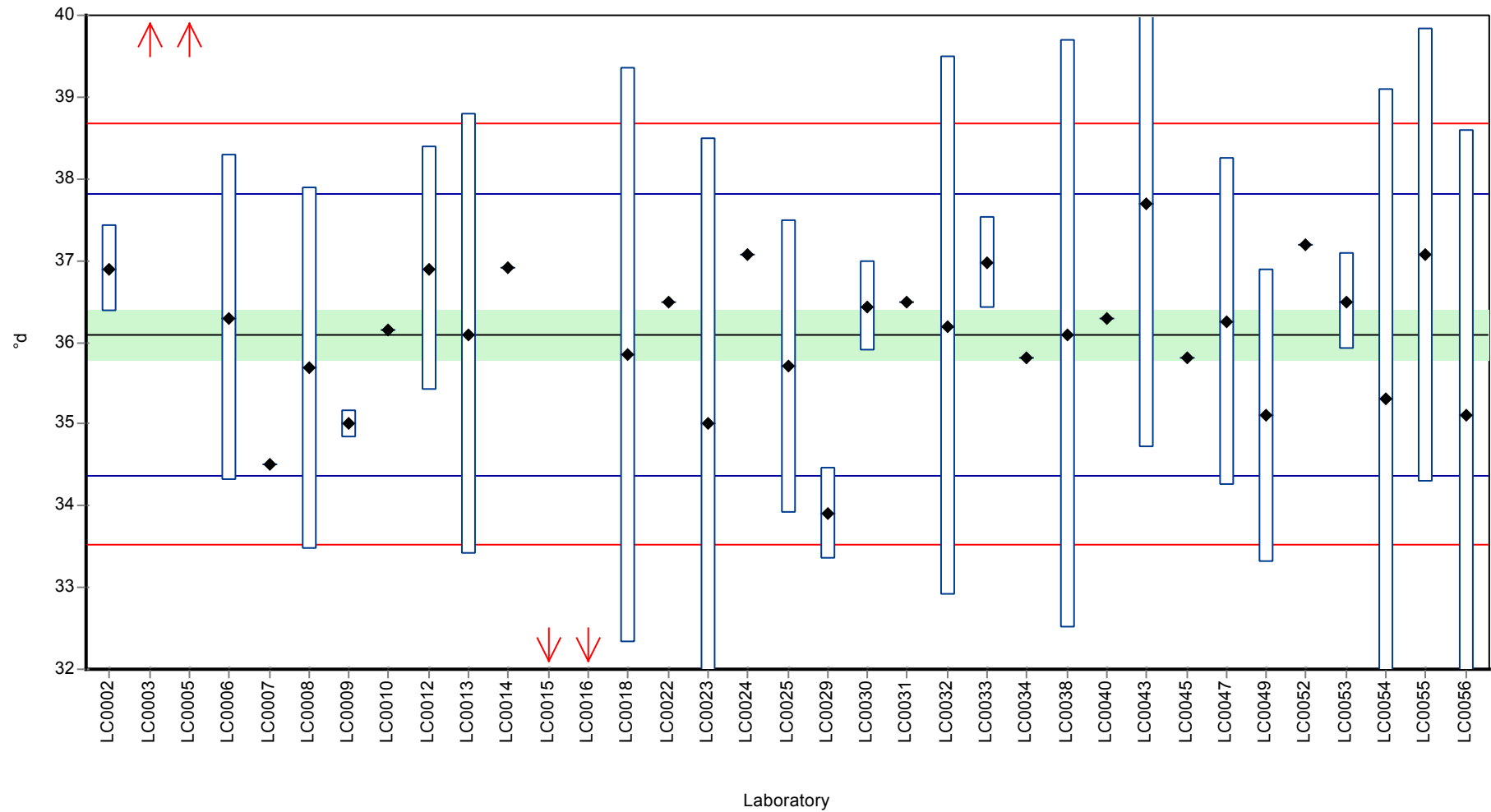
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	37.7	3	104	1.87	
LC0044	-	-	-	-	
LC0045	35.8	-	99.2	-0.34	
LC0046	-	-	-	-	
LC0047	36.25	2	100	0.18	
LC0048	-	-	-	-	
LC0049	35.1	1.8	97.3	-1.15	
LC0050	-	-	-	-	
LC0051	-	-	-	-	
LC0052	37.2	-	103	1.29	
LC0053	36.5	0.6	101	0.48	
LC0054	35.3	3.8	97.8	-0.92	
LC0055	37.07	2.78	103	1.14	
LC0056	35.1	3.5	97.3	-1.15	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	36.5 ± 4.83	36.1 ± 0.463	°d
Minimum	12.1	33.9	°d
Maximum	69.3	37.7	°d
Standard deviation	9.53	0.859	°d
rel. Standard deviation	26.1	2.38	%
n	35	31	-

Graphical presentation of results

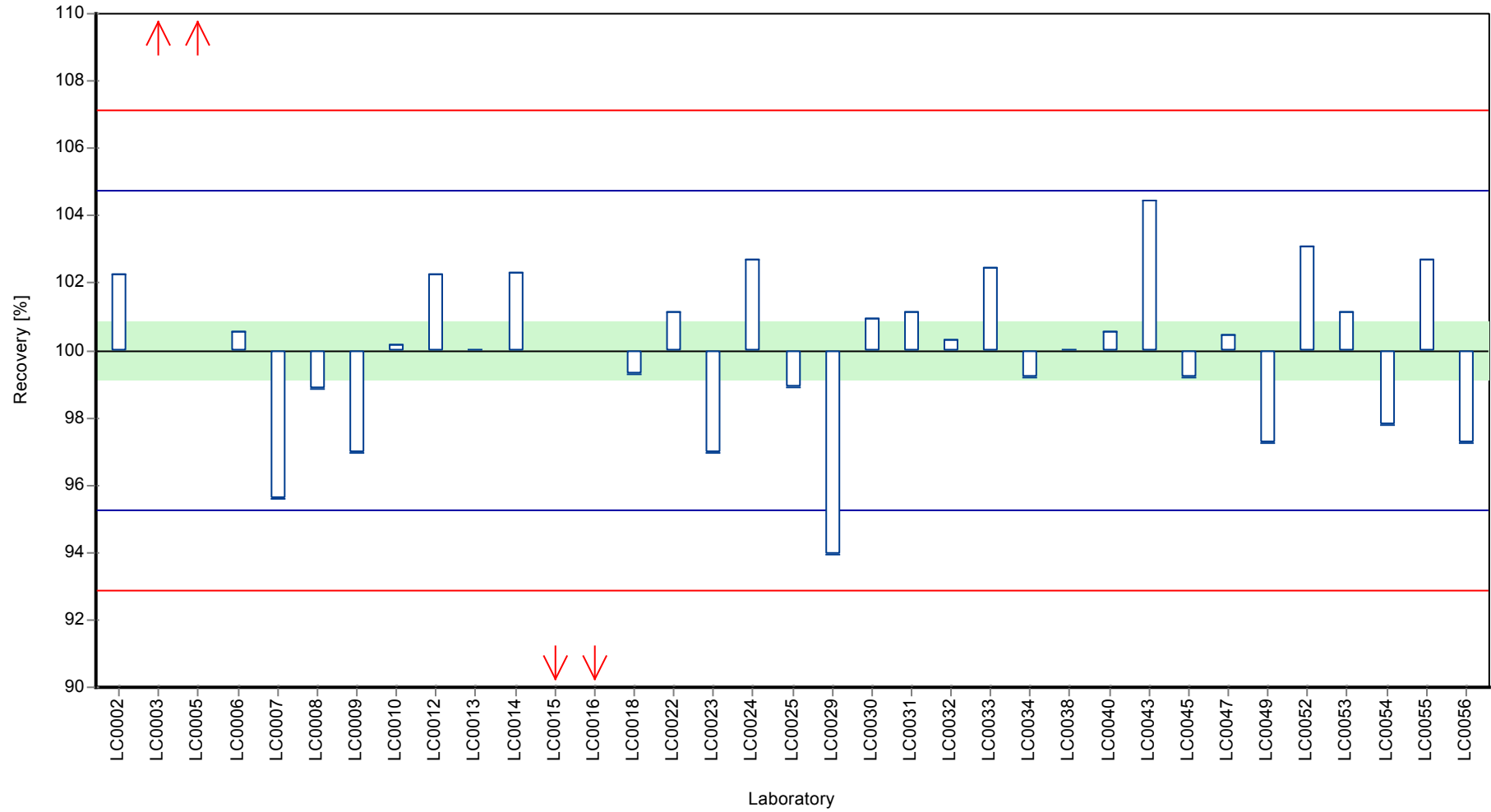
Results



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Total hardness

Recovery rate

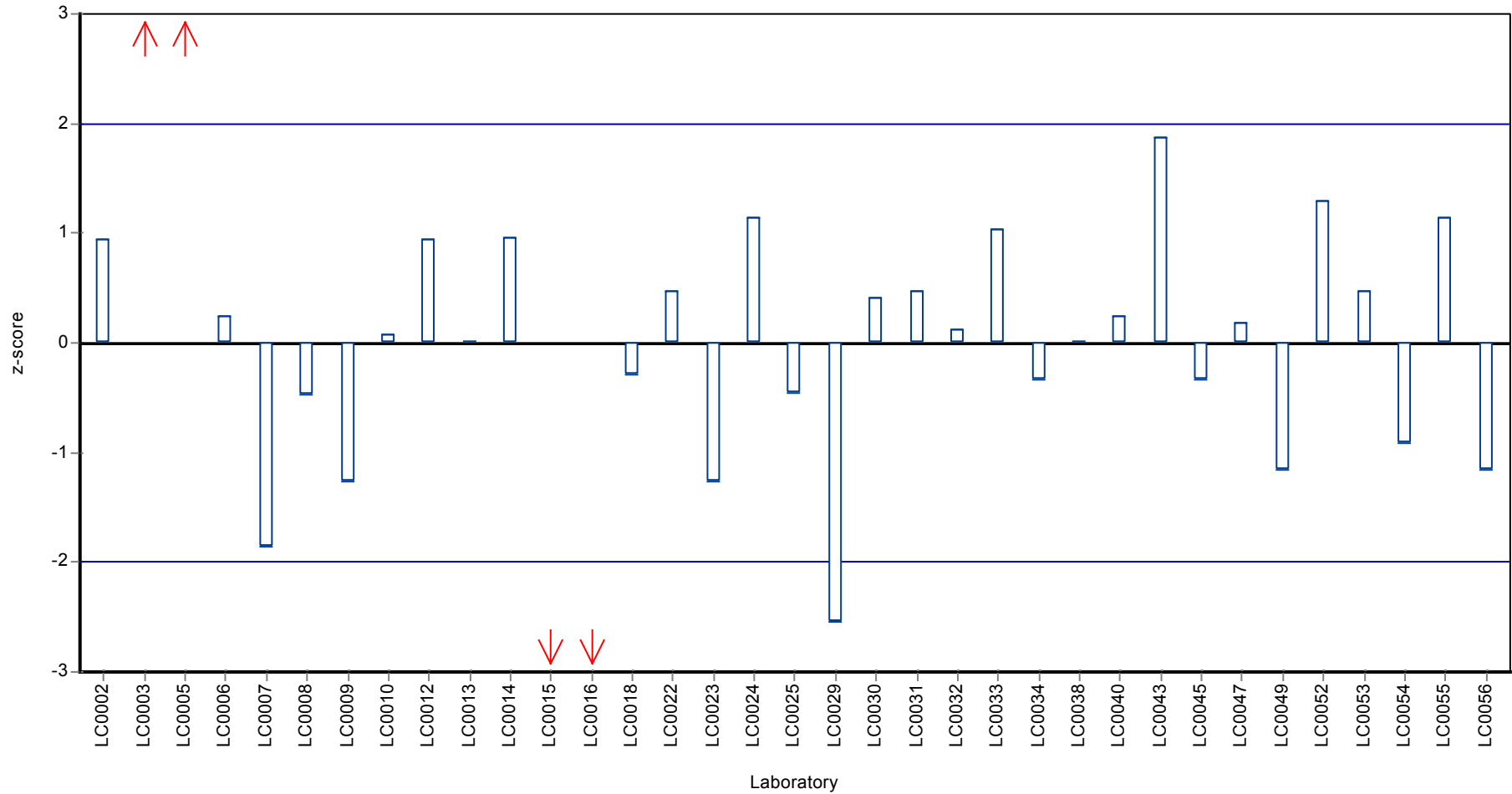




Parameter oriented report Major ions N140

Sample: N140A, Parameter: Total hardness

Z-score



## Parameter oriented report

### N140 B

#### Total hardness

Unit	°d
Mean ± CI (99%)	11.7 ± 0.143
Minimum - Maximum	11 - 12.1
Control test value ± U	11.6 ± 1.22

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	12.1	0.53	103	1.54	
LC0003	21.119	2.1	181	36.2	H
LC0004	-	-	-	-	
LC0005	22.7	0.9	194	42.2	H
LC0006	11.7	0.5	100	0.01	
LC0007	11.6	-	99.2	-0.38	
LC0008	11.67	0.72	99.8	-0.11	
LC0009	11.6	0.083	99.2	-0.38	
LC0010	11.61	-	99.2	-0.34	
LC0011	-	-	-	-	
LC0012	11.6	0.5	99.2	-0.38	
LC0013	12.1	2.7	103	1.54	
LC0014	12.0862	0.0001	103	1.49	
LC0015	3.96	0.713	33.9	-29.7	H
LC0016	4.3063	0.646	36.8	-28.4	H
LC0017	-	-	-	-	
LC0018	11.63	1.14	99.4	-0.26	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	11.7	-	100	0.01	
LC0023	11.5	1.2	98.3	-0.76	
LC0024	12.04	-	103	1.31	
LC0025	11.5	0.5	98.3	-0.76	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	11	0.21	94	-2.68	
LC0030	11.8	0.56	101	0.39	
LC0031	11.8	-	101	0.39	
LC0032	11.9	1.1	102	0.78	
LC0033	12.89	0.56	110	4.57	H
LC0034	11.8	-	101	0.39	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	11.8	1.2	101	0.39	
LC0039	-	-	-	-	
LC0040	11.8	-	101	0.39	
LC0041	-	-	-	-	

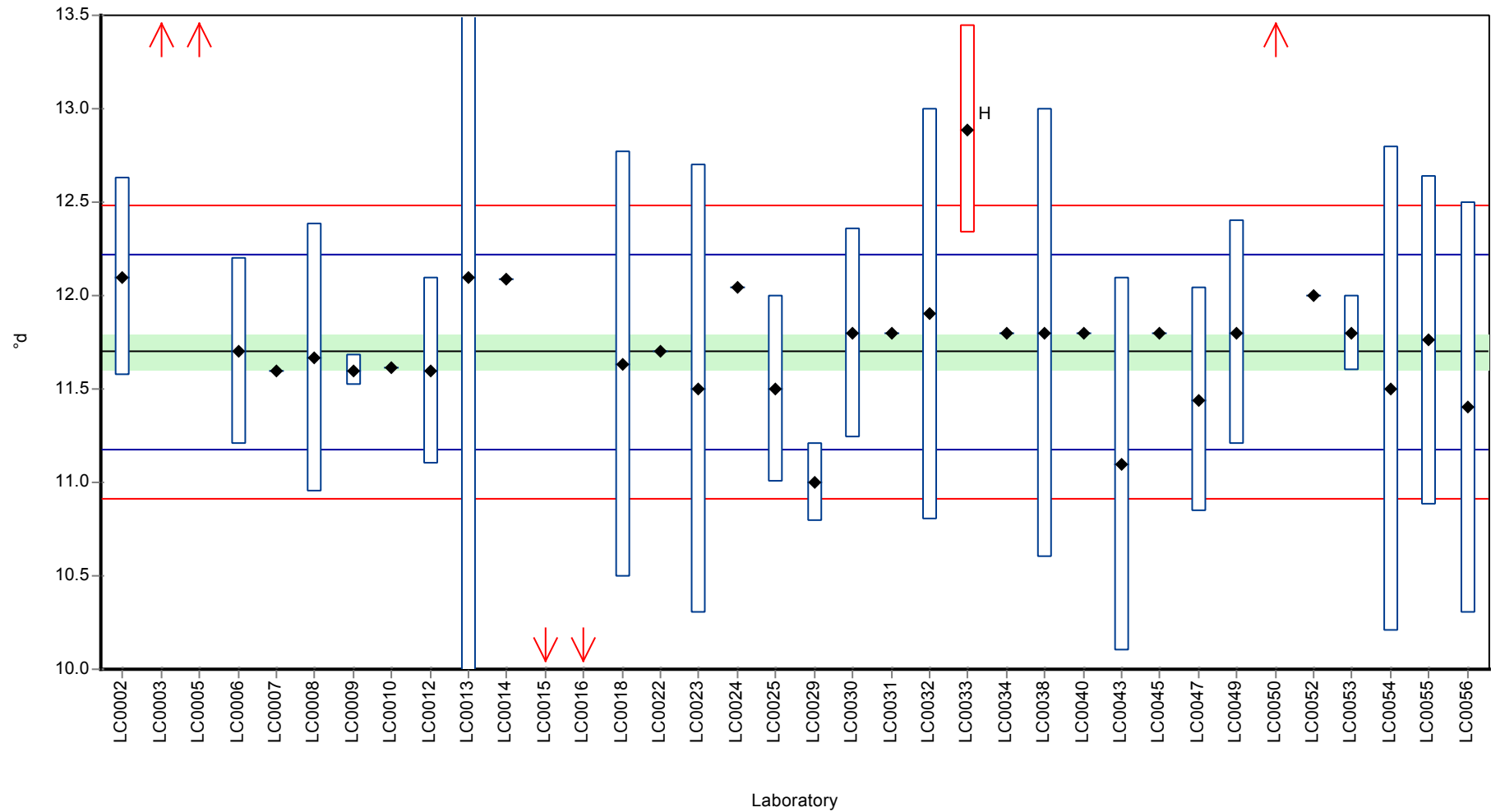
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	11.1	1	94.9	-2.29	
LC0044	-	-	-	-	
LC0045	11.8	-	101	0.39	
LC0046	-	-	-	-	
LC0047	11.44	0.6	97.8	-0.99	
LC0048	-	-	-	-	
LC0049	11.8	0.6	101	0.39	
LC0050	24.48	0.4	209	49	H
LC0051	-	-	-	-	
LC0052	12	-	103	1.16	
LC0053	11.8	0.2	101	0.39	
LC0054	11.5	1.3	98.3	-0.76	
LC0055	11.76	0.882	101	0.24	
LC0056	11.4	1.1	97.5	-1.14	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	12.2 ± 1.85	11.7 ± 0.143	°d
Minimum	3.96	11	°d
Maximum	24.5	12.1	°d
Standard deviation	3.71	0.261	°d
rel. Standard deviation	30.3	2.23	%
n	36	30	-

Graphical presentation of results

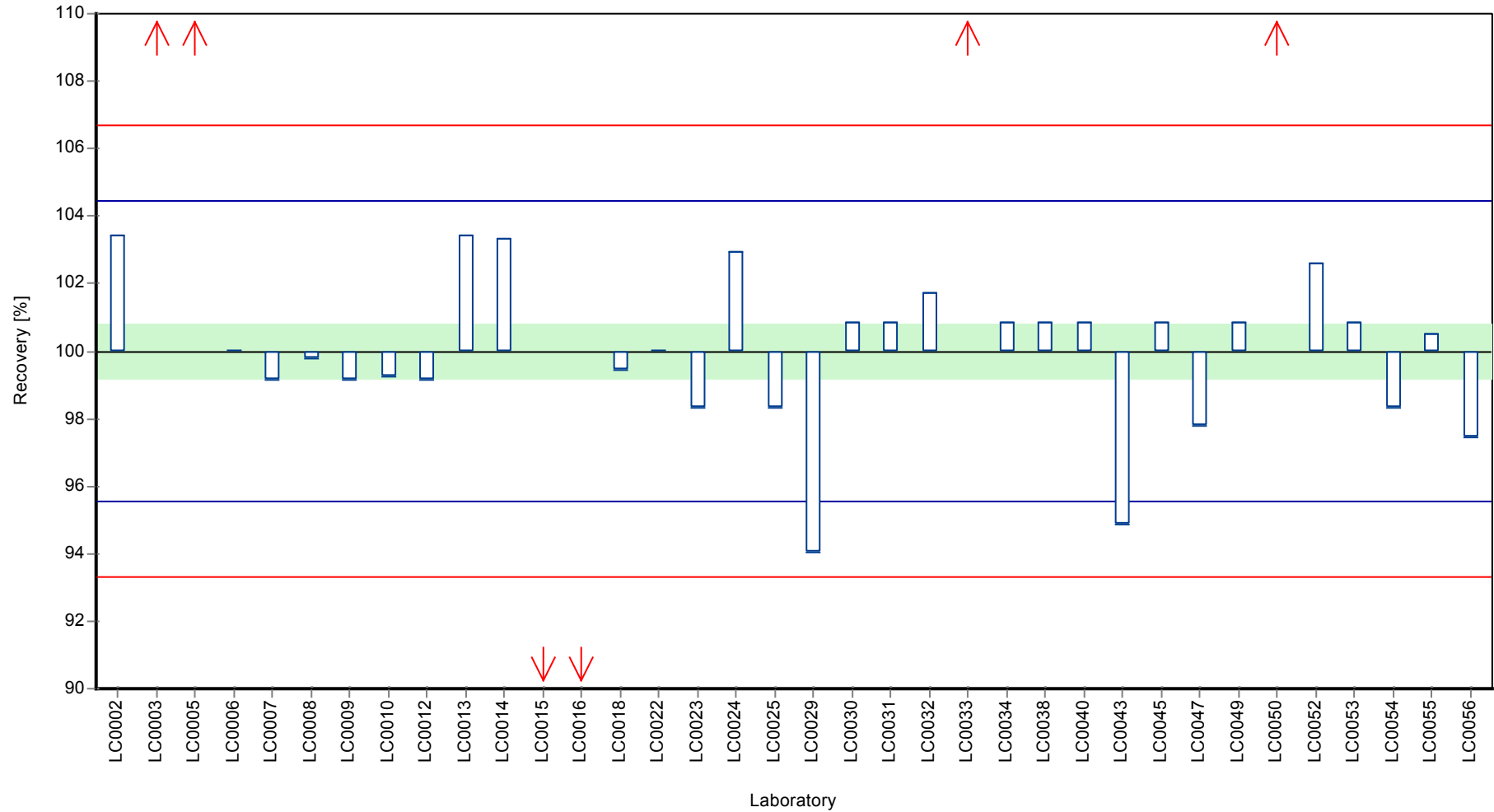
Results



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Total hardness

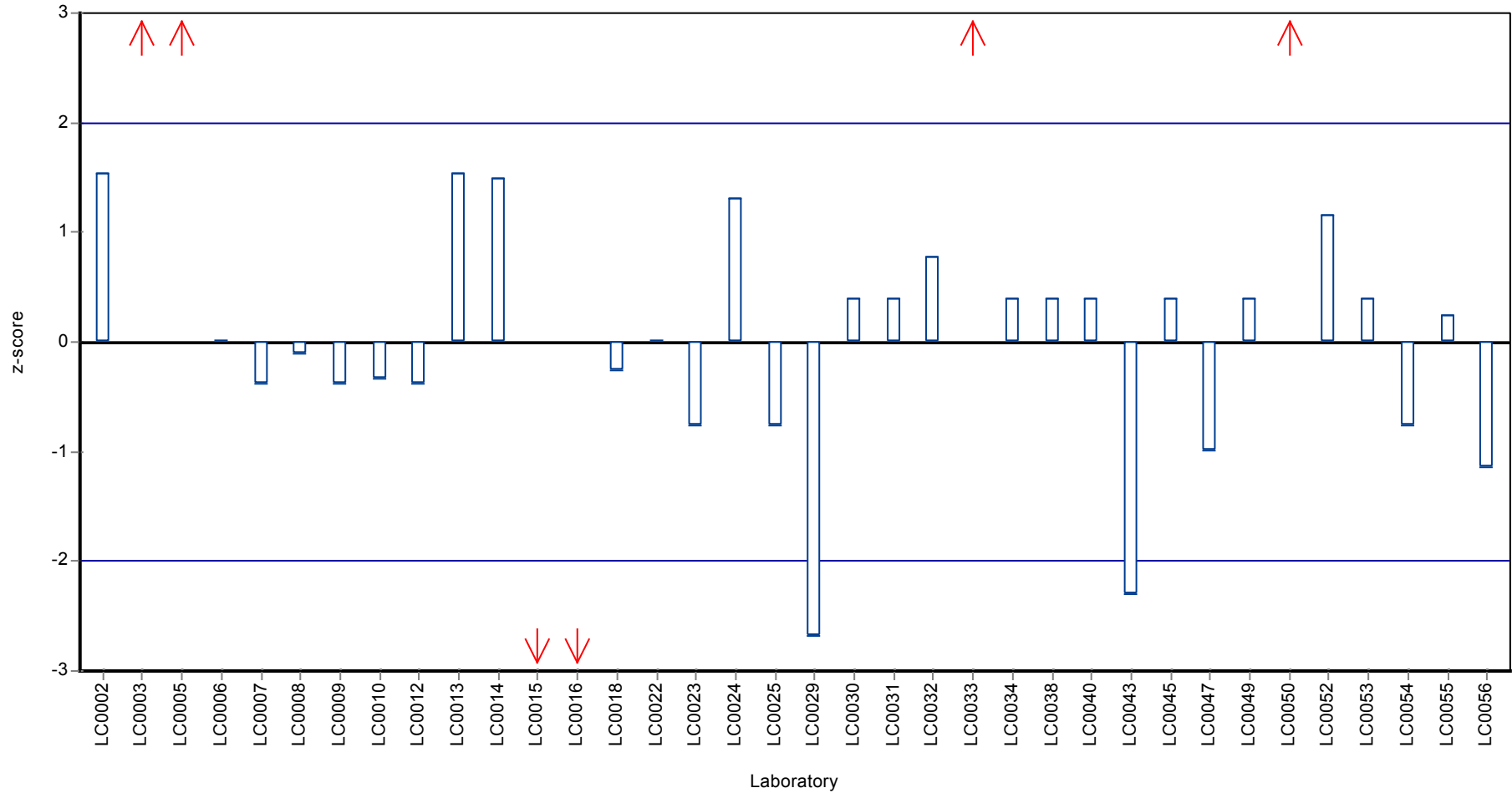
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Total hardness

Z-score



## Parameter oriented report

### N140 A

#### Hydrogen carbonate

Unit	mg/l
Mean ± CI (99%)	461 ± 2.87
Minimum - Maximum	453 - 470
Control test value ± U	468 ± 5.5

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	457.04	18.7	99.1	-0.61	
LC0004	-	-	-	-	
LC0005	433	19.5	93.9	-4.34	H
LC0006	458	19	99.4	-0.46	
LC0007	461	-	100	0.00	
LC0008	458	36.6	99.4	-0.46	
LC0009	460	9.2	99.8	-0.15	
LC0010	463	-	100	0.31	
LC0011	-	-	-	-	
LC0012	458	6.1	99.4	-0.46	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	429.44	81.6	93.2	-4.89	H
LC0016	478.39	47.8	104	2.7	H
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	393.35	2.54	85.3	-10.5	H
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	455	91	98.7	-0.93	
LC0023	453	23	98.3	-1.24	
LC0024	469.78	-	102	1.36	
LC0025	458.4	22.9	99.4	-0.4	
LC0026	-	-	-	-	
LC0027	389	1	84.4	-11.2	H
LC0028	-	-	-	-	
LC0029	457	1.1	99.1	-0.62	
LC0030	463.4	6.1	101	0.38	
LC0031	453.4	68.1	98.4	-1.17	
LC0032	463.14	41.68	100	0.33	
LC0033	424.09	3.051	92	-5.72	H
LC0034	465	-	101	0.62	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	463.1	46.3	100	0.33	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	470	40	102	1.4	
LC0044	463	-	100	0.31	
LC0045	464	-	101	0.47	
LC0046	-	-	-	-	
LC0047	468.99	23	102	1.24	
LC0048	-	-	-	-	
LC0049	469	23	102	1.24	
LC0050	-	-	-	-	
LC0051	-	-	-	-	
LC0052	491	-	107	4.65	H
LC0053	455.7	3	98.9	-0.82	
LC0054	459	23	99.6	-0.31	
LC0055	460	43.7	99.8	-0.15	
LC0056	459.6	37	99.7	-0.21	

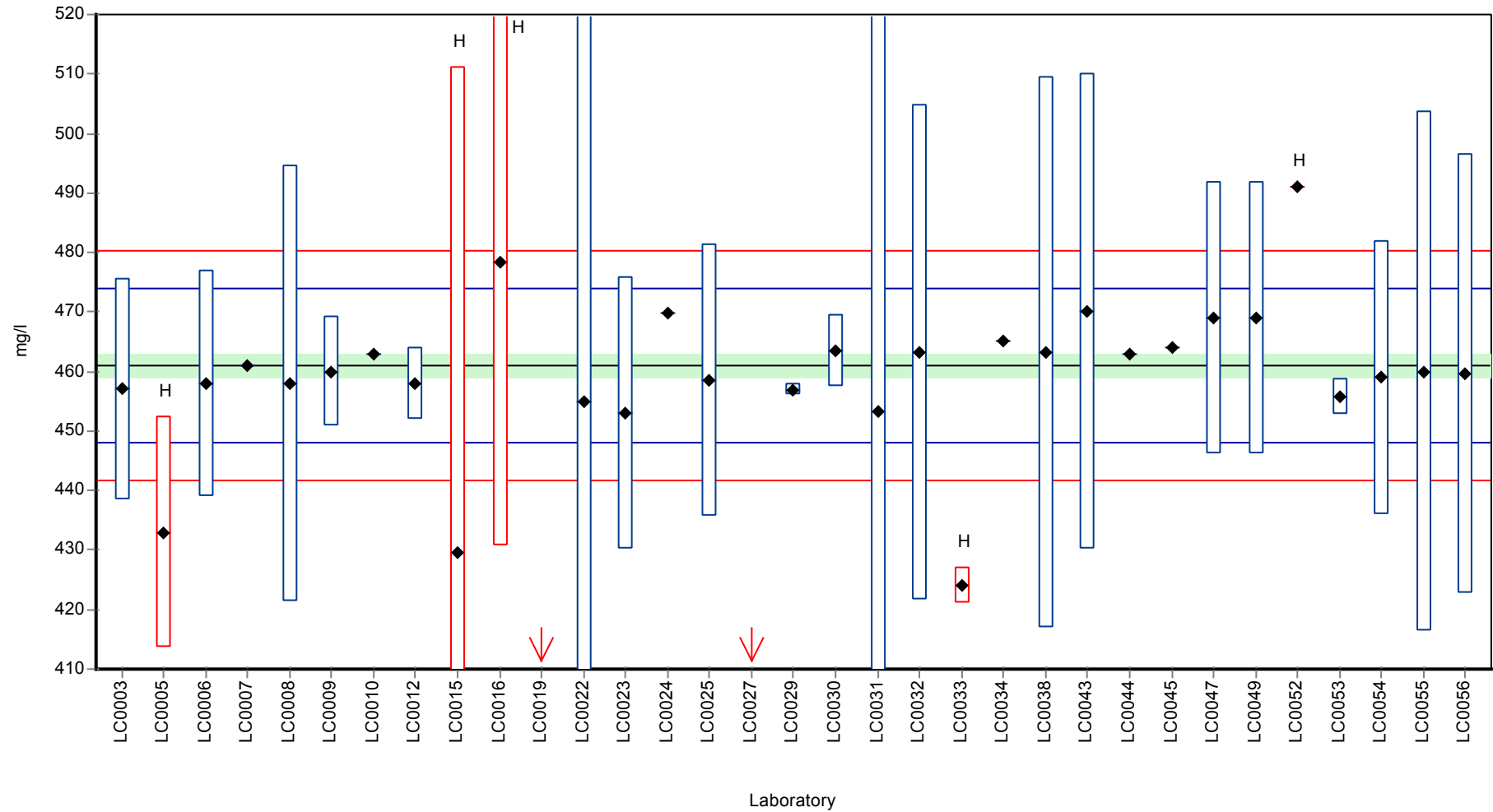
#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	455 ± 10.8	461 ± 2.87	mg/l
Minimum	389	453	mg/l
Maximum	491	470	mg/l
Standard deviation	20.6	4.87	mg/l
rel. Standard deviation	4.53	1.06	%
n	33	26	-



Graphical presentation of results

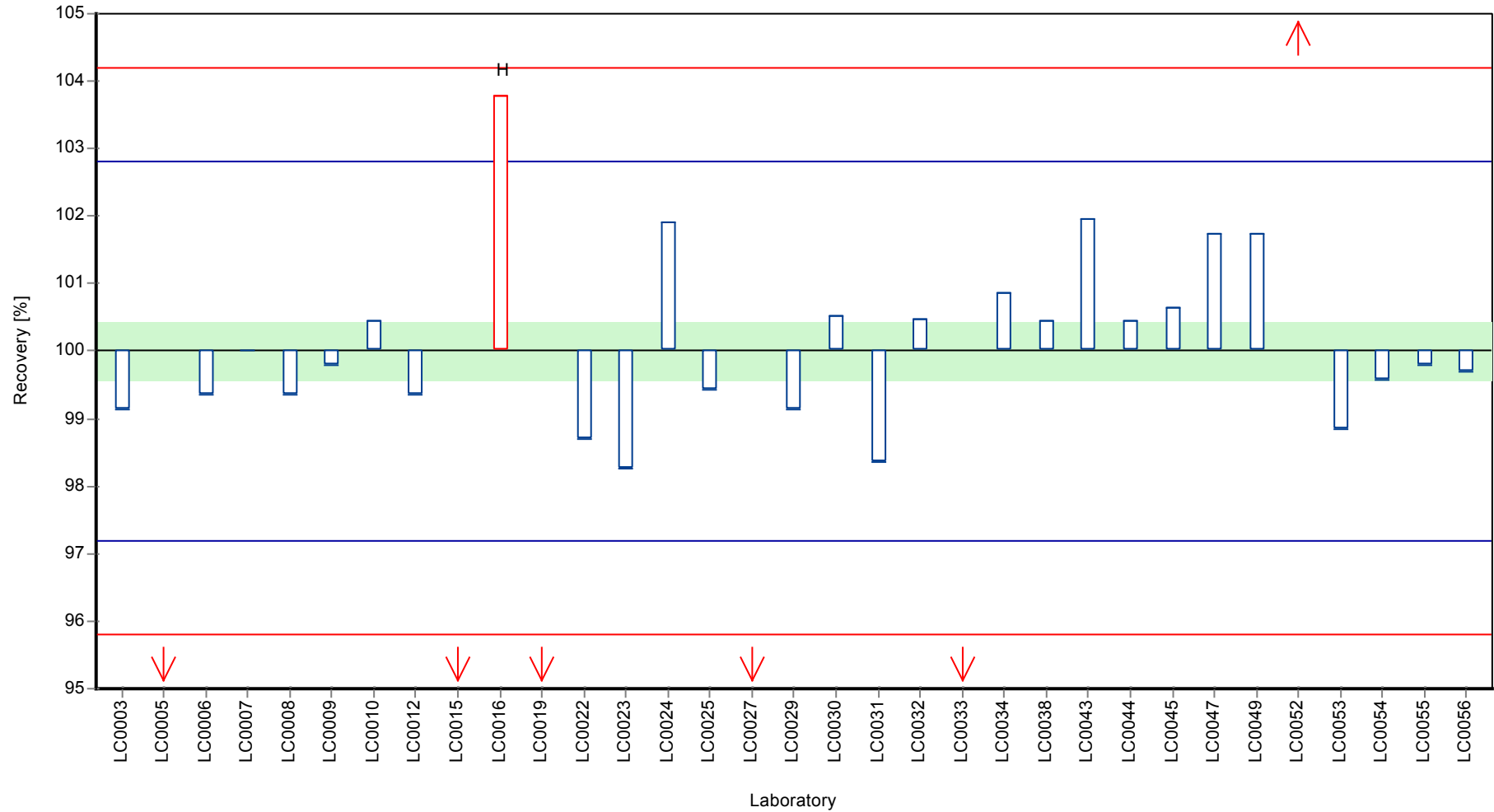
Results



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Hydrogen carbonate

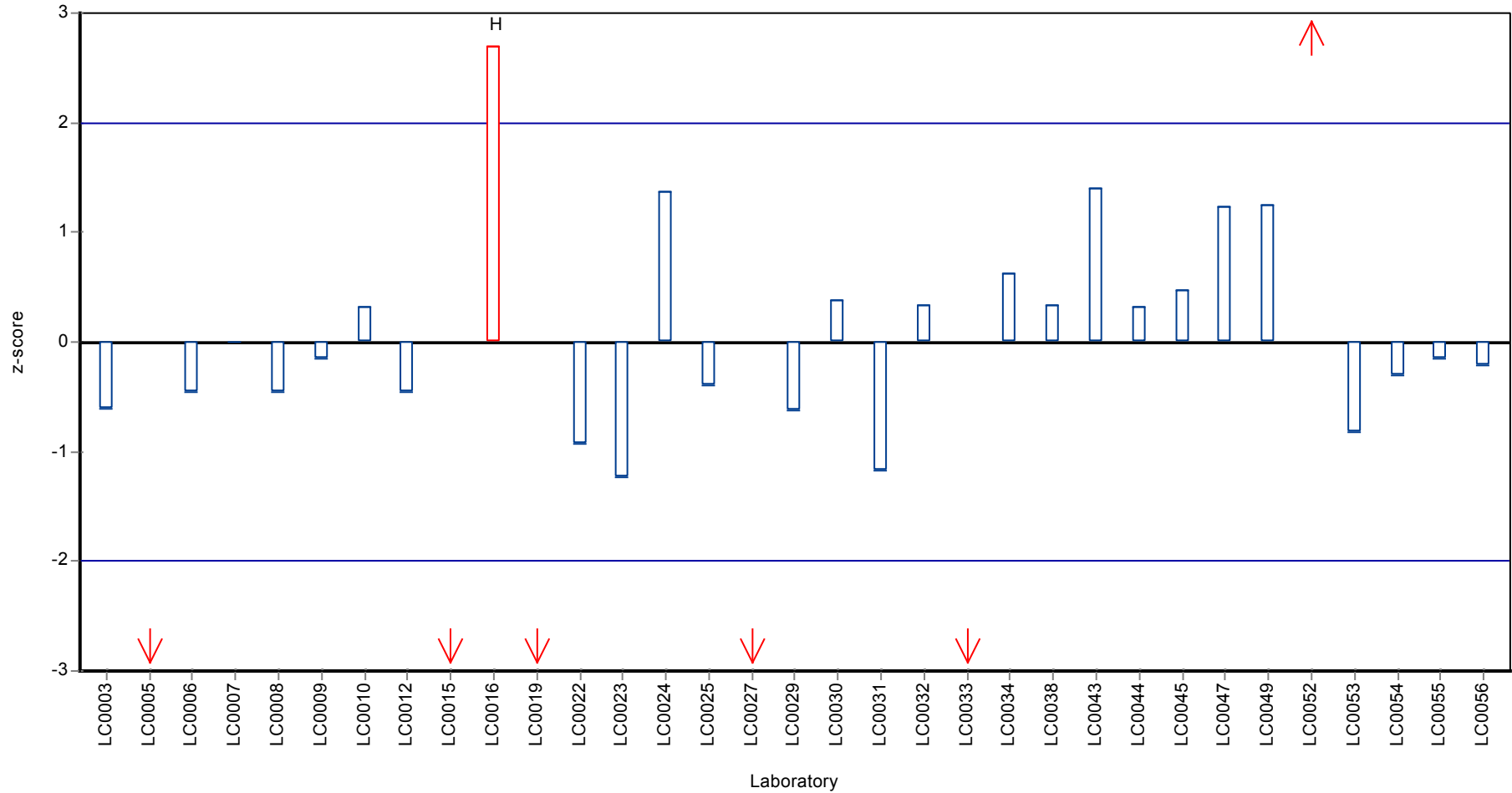
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Hydrogen carbonate

Z-score



## Parameter oriented report

### N140 B

#### Hydrogen carbonate

Unit	mg/l
Mean ± CI (99%)	215 ± 1.49
Minimum - Maximum	211 - 221
Control test value ± U	218 ± 2.49

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	216.25	8.9	100	0.29	
LC0004	-	-	-	-	
LC0005	205	9.22	95.2	-3.44	H
LC0006	212	9	98.4	-1.12	
LC0007	217	-	101	0.54	
LC0008	211.6	16.9	98.2	-1.25	
LC0009	213	4.26	98.9	-0.79	
LC0010	215	-	99.8	-0.13	
LC0011	-	-	-	-	
LC0012	217	2.8	101	0.54	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	190.32	36.2	88.4	-8.31	H
LC0016	215.095	21.5	99.9	-0.1	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	189.3	0.77	87.9	-8.65	H
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	217	43.5	101	0.54	
LC0023	211	10	98	-1.45	
LC0024	213.54	-	99.1	-0.61	
LC0025	215.3	10.8	100	-0.03	
LC0026	-	-	-	-	
LC0027	157	1	72.9	-19.4	H
LC0028	-	-	-	-	
LC0029	213	0.21	98.9	-0.79	
LC0030	217.6	6.1	101	0.74	
LC0031	214.5	32.18	99.6	-0.29	
LC0032	215.4	19.39	100	0.01	
LC0033	195.3	3.051	90.7	-6.66	H
LC0034	217	-	101	0.54	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	216	21.6	100	0.2	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

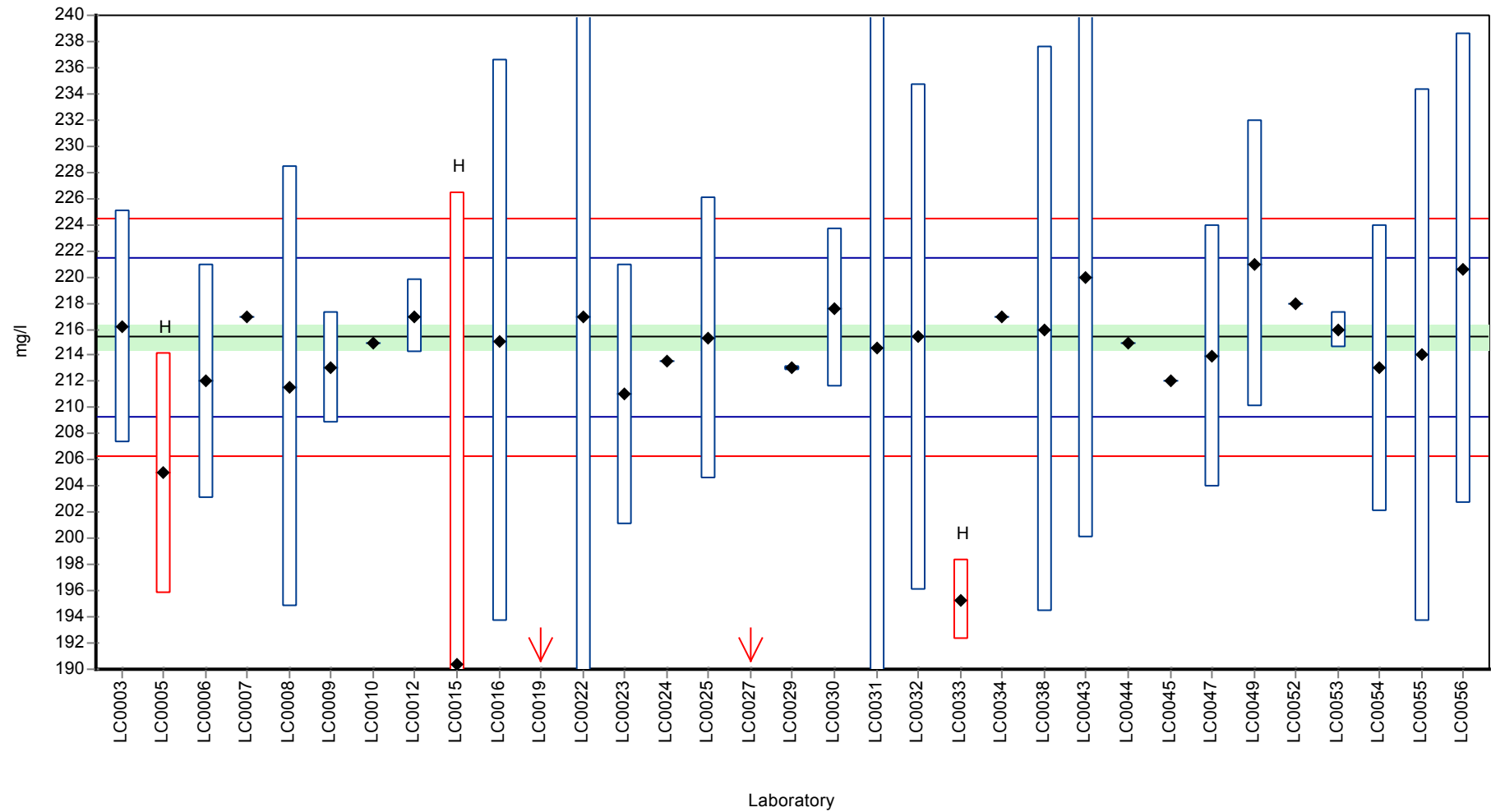
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	220	20	102	1.53	
LC0044	215	-	99.8	-0.13	
LC0045	212	-	98.4	-1.12	
LC0046	-	-	-	-	
LC0047	213.9	10	99.3	-0.49	
LC0048	-	-	-	-	
LC0049	221	11	103	1.86	
LC0050	-	-	-	-	
LC0051	-	-	-	-	
LC0052	218	-	101	0.87	
LC0053	215.9	1.4	100	0.17	
LC0054	213	11	98.9	-0.79	
LC0055	214	20.4	99.4	-0.46	
LC0056	220.6	18	102	1.73	

#### Characteristics of parameter

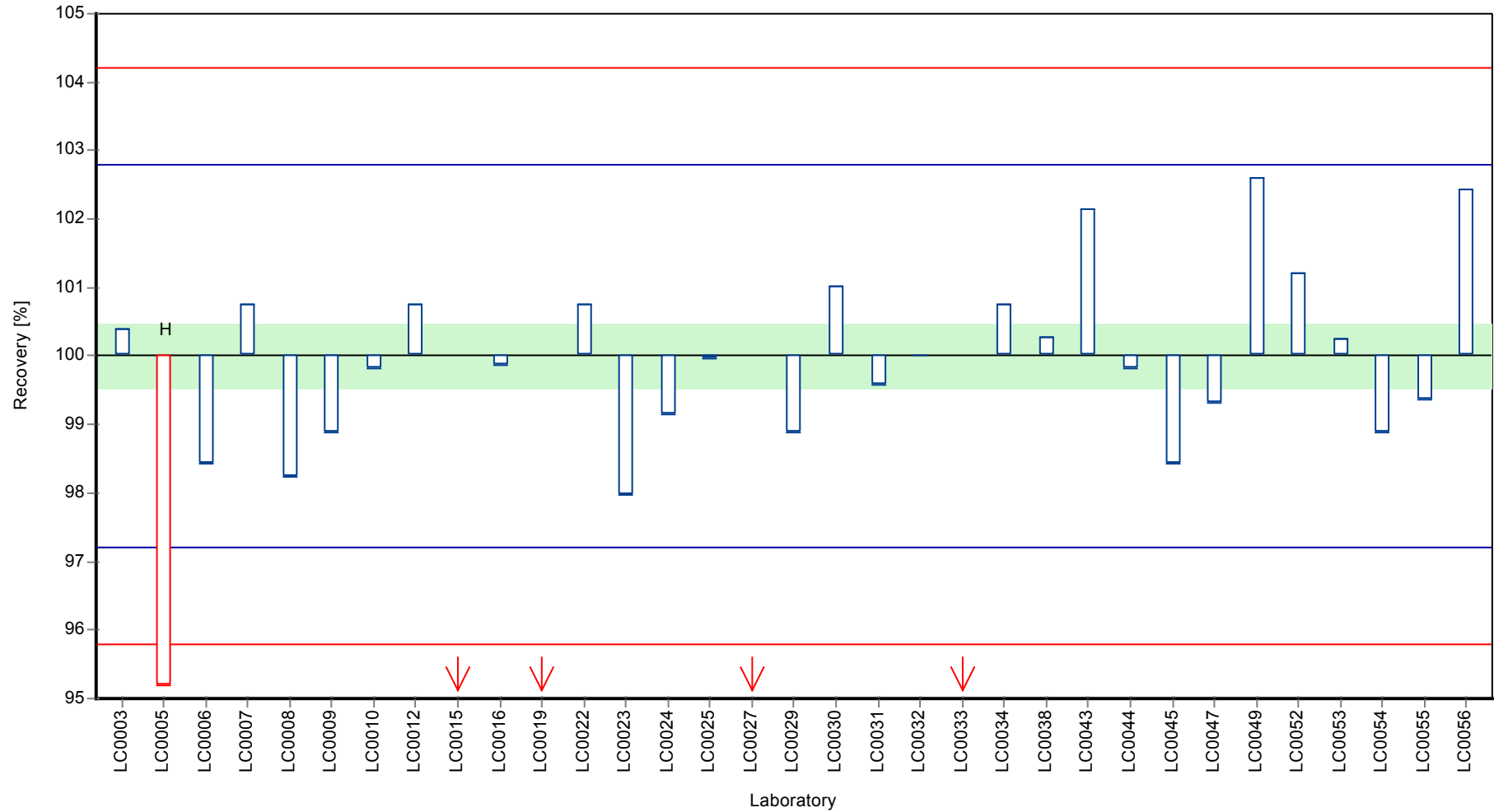
	all results	without outliers	Unit
Mean ± CI (99%)	211 ± 6.41	215 ± 1.49	mg/l
Minimum	157	211	mg/l
Maximum	221	221	mg/l
Standard deviation	12.3	2.62	mg/l
rel. Standard deviation	5.81	1.22	%
n	33	28	-

Graphical presentation of results

Results



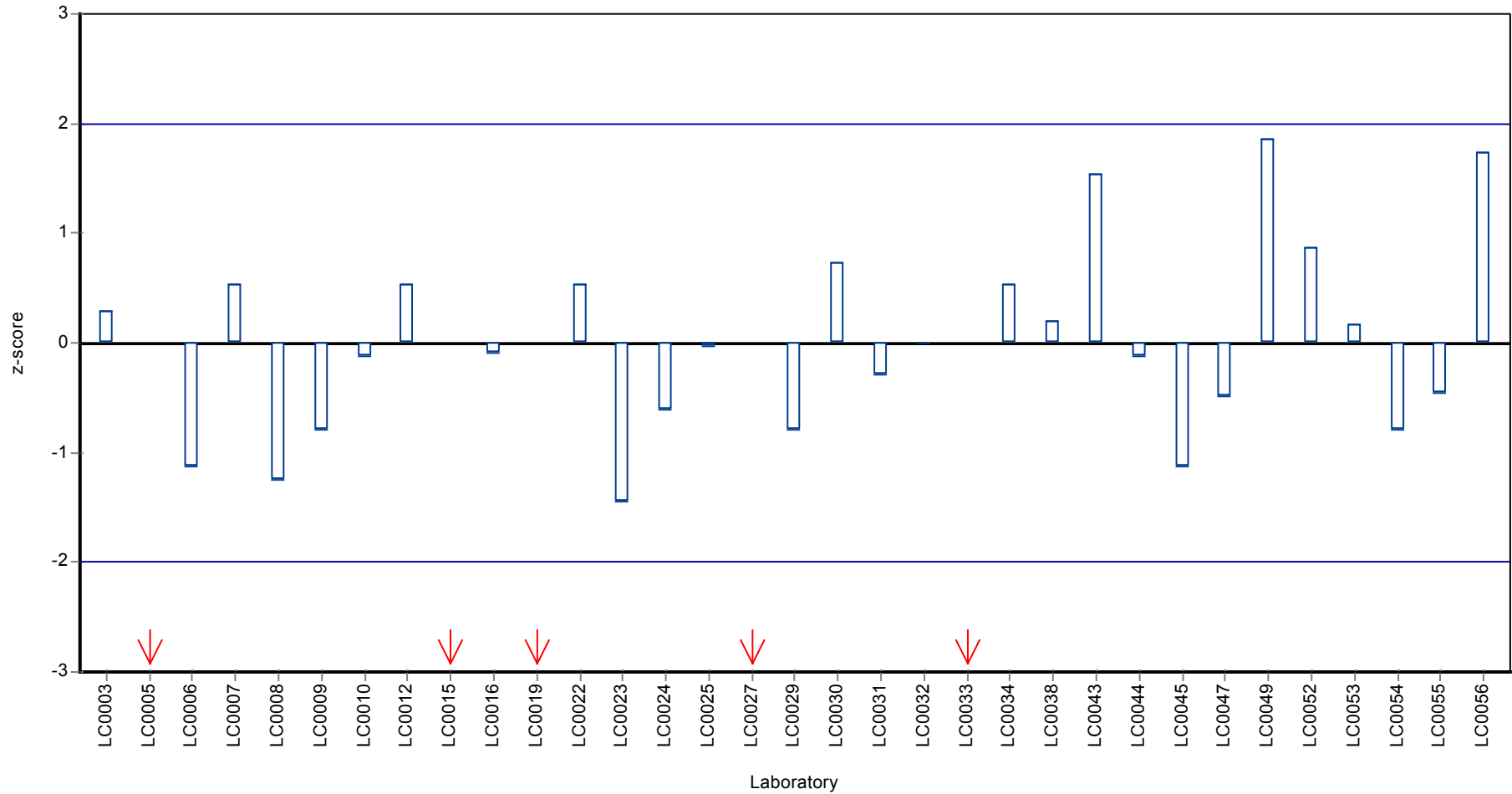
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Hydrogen carbonate

Z-score





## Parameter oriented report

### N140 A

#### Potassium

Unit	mg/l
Mean ± CI (99%)	5.33 ± 0.136
Minimum - Maximum	4.61 - 5.9
Control test value ± U	5.32 ± 0.61

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	5.357	0.6	101	0.12	
LC0004	-	-	-	-	
LC0005	5.45	0.91	102	0.48	
LC0006	5.24	0.7	98.4	-0.33	
LC0007	5.48	-	103	0.59	
LC0008	5.38	0.44	101	0.21	
LC0009	5.35	0.927	100	0.09	
LC0010	5.9	-	111	2.21	
LC0011	5.33	-	100	0.02	
LC0012	5.6	0.24	105	1.06	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	4.61	0.41	86.6	-2.76	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	5.23	0.46	98.2	-0.37	
LC0019	4.97	0.03	93.3	-1.37	
LC0020	-	-	-	-	
LC0021	5.56	0.56	104	0.9	
LC0022	5.2	-	97.6	-0.49	
LC0023	5.28	0.5	99.1	-0.18	
LC0024	5.41	0.5	102	0.32	
LC0025	5.63	0.28	106	1.17	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	5.18	0.112	97.3	-0.56	
LC0030	5.15	0.02	96.7	-0.68	
LC0031	5.83	0.583	109	1.94	
LC0032	5.53	0.55	104	0.79	
LC0033	4.97	0.18	93.3	-1.37	
LC0034	5.43	0.25	102	0.4	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	5.17	0.52	97.1	-0.6	
LC0039	-	-	-	-	
LC0040	5.1866	0.1338	97.4	-0.54	
LC0041	-	-	-	-	

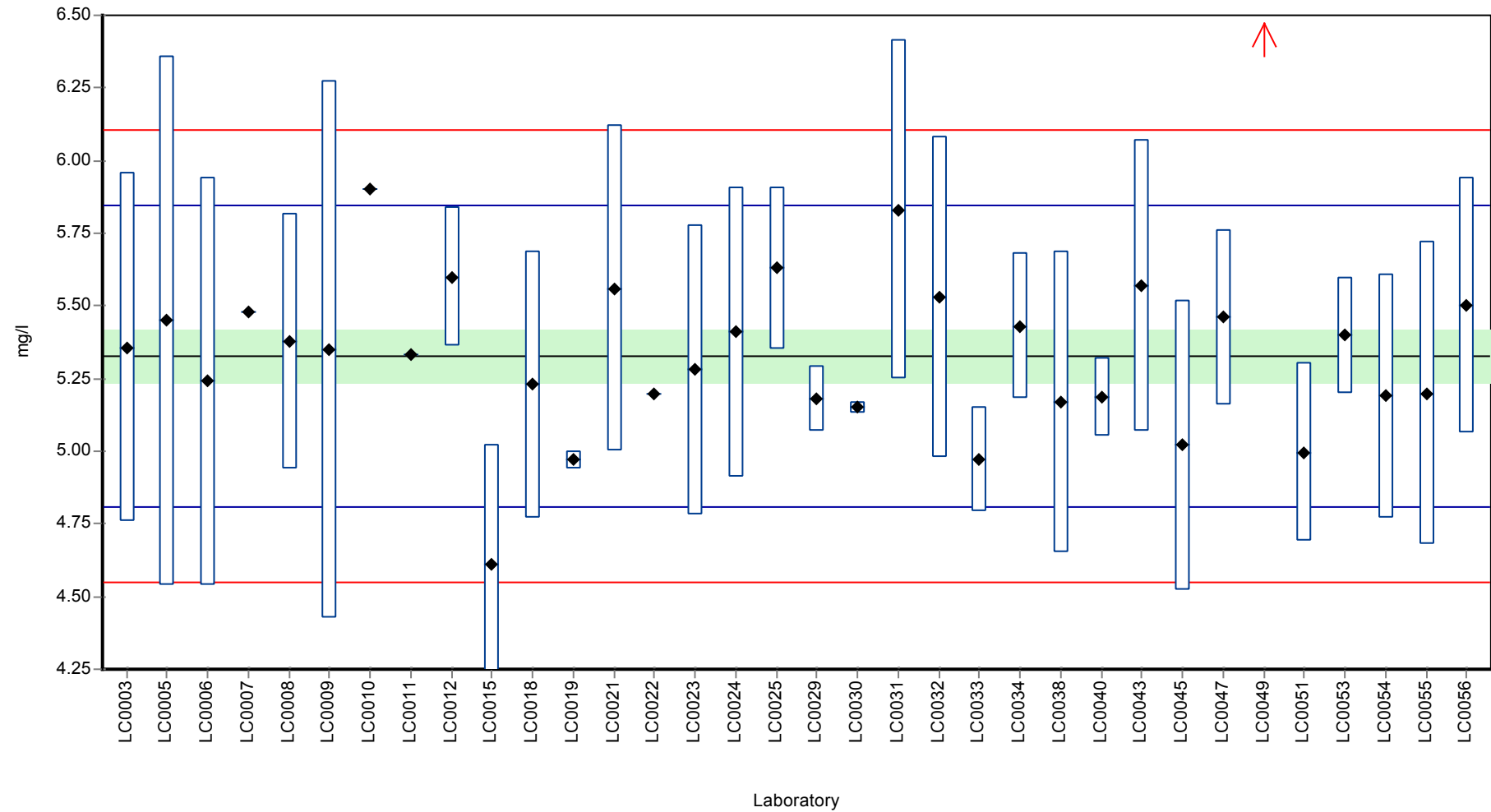
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	5.57	0.5	105	0.94	
LC0044	-	-	-	-	
LC0045	5.02	0.5	94.3	-1.18	
LC0046	-	-	-	-	
LC0047	5.46	0.3	103	0.52	
LC0048	-	-	-	-	
LC0049	7.6	0.8	143	8.76	H
LC0050	-	-	-	-	
LC0051	4.997	0.308	93.8	-1.27	
LC0052	-	-	-	-	
LC0053	5.4	0.2	101	0.28	
LC0054	5.19	0.42	97.4	-0.52	
LC0055	5.2	0.52	97.6	-0.49	
LC0056	5.5	0.44	103	0.67	

#### Characteristics of parameter

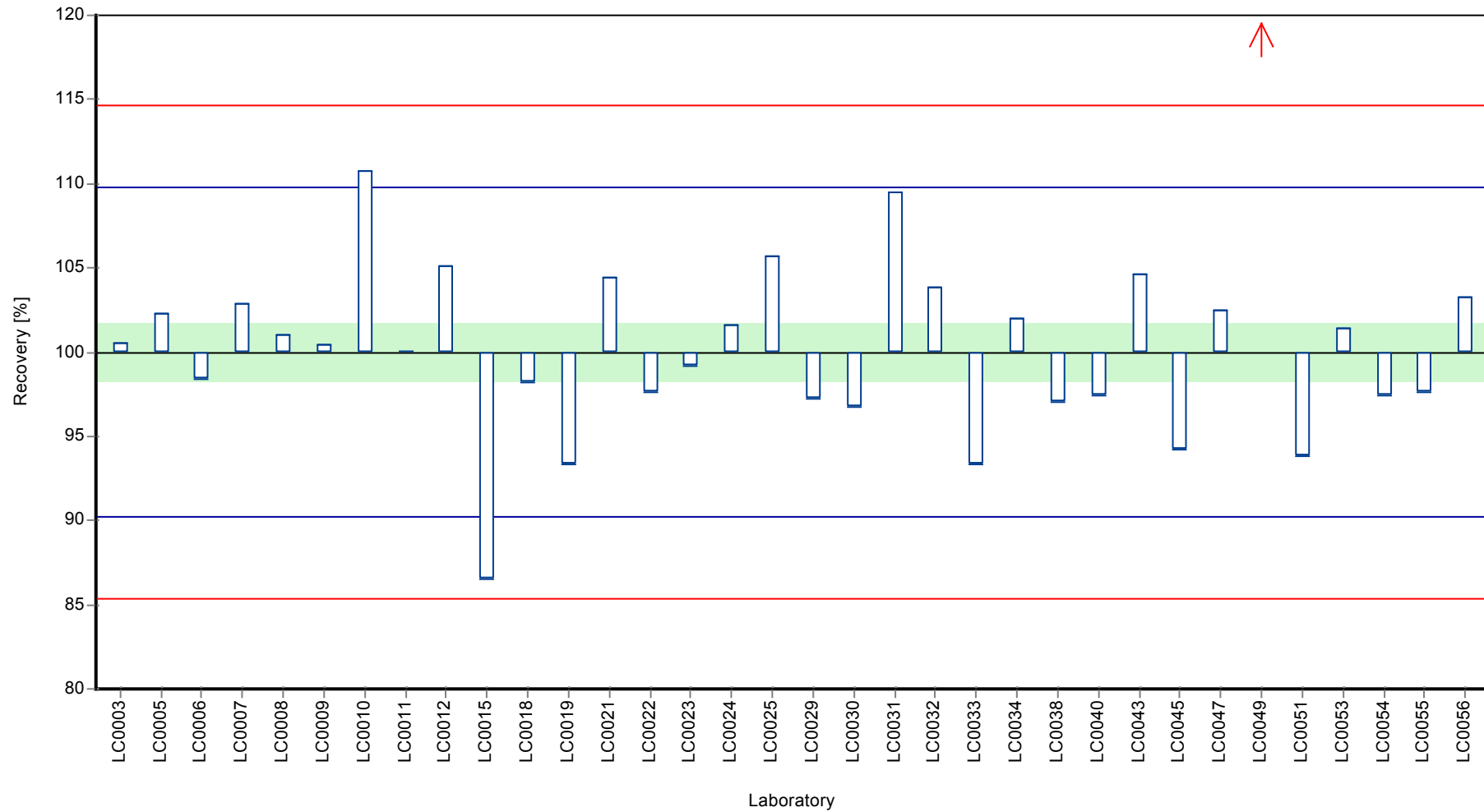
	all results	without outliers	Unit
Mean ± CI (99%)	5.39 ± 0.24	5.33 ± 0.136	mg/l
Minimum	4.61	4.61	mg/l
Maximum	7.6	5.9	mg/l
Standard deviation	0.466	0.26	mg/l
rel. Standard deviation	8.65	4.87	%
n	34	33	-

Graphical presentation of results

Results



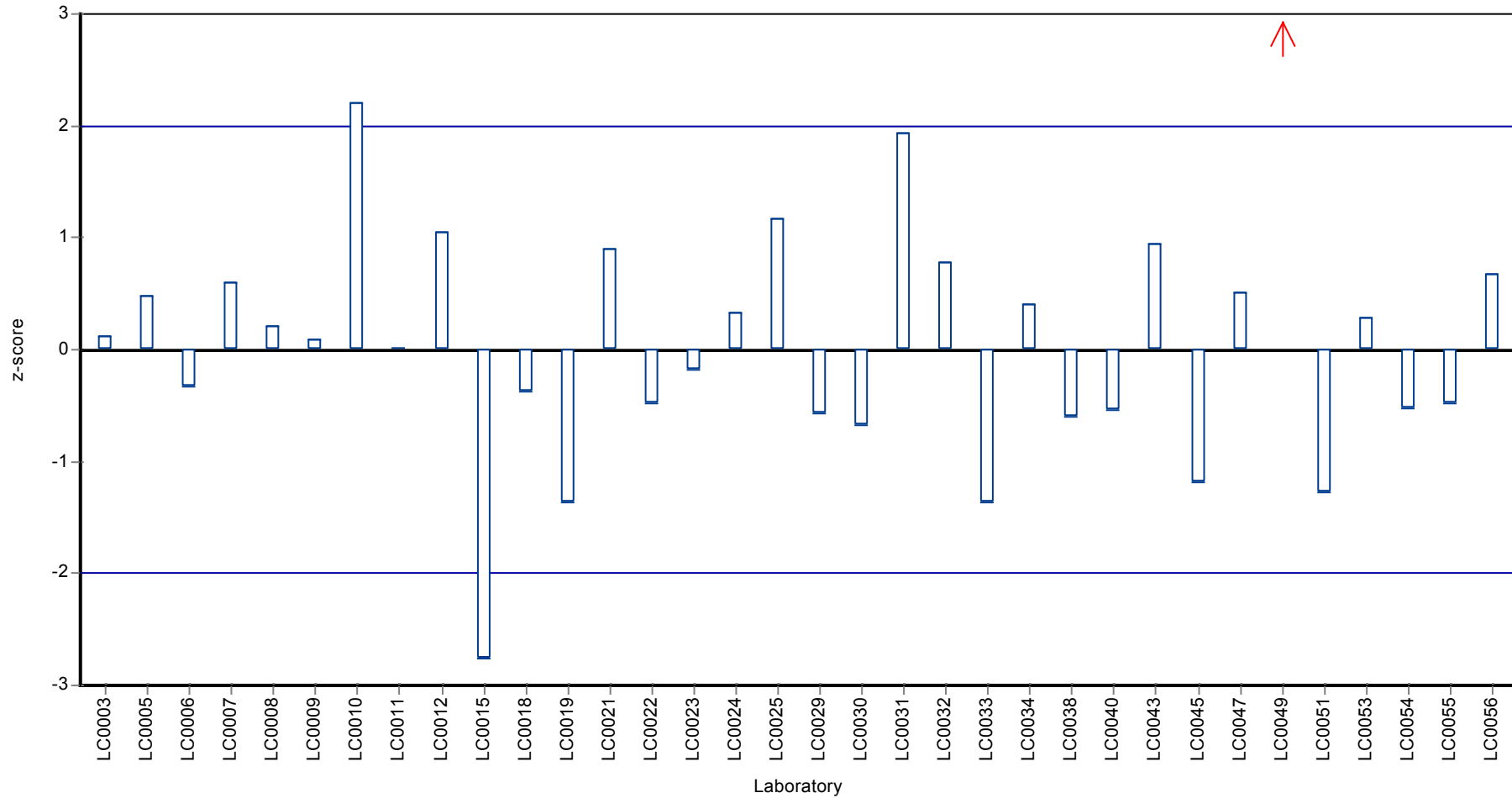
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Potassium

Z-score



## Parameter oriented report

### N140 B

#### Potassium

Unit	mg/l
Mean ± CI (99%)	2.14 ± 0.0444
Minimum - Maximum	1.97 - 2.32
Control test value ± U	2.18 ± 0.249

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	2.13	0.2	99.7	-0.08	
LC0004	-	-	-	-	
LC0005	2.15	0.36	101	0.17	
LC0006	2.08	0.3	97.4	-0.68	
LC0007	2.23	-	104	1.14	
LC0008	2.15	0.18	101	0.17	
LC0009	2.16	0.032	101	0.29	
LC0010	2	-	93.6	-1.65	
LC0011	2.15	-	101	0.17	
LC0012	2.25	0.1	105	1.38	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	1.74	0.16	81.4	-4.81	H
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	2.11	0.18	98.8	-0.32	
LC0019	1.99	0.05	93.1	-1.78	
LC0020	-	-	-	-	
LC0021	2.14	0.21	100	0.04	
LC0022	2.2	-	103	0.77	
LC0023	2.09	0.2	97.8	-0.56	
LC0024	2.32	0.23	109	2.23	
LC0025	2.19	0.11	103	0.65	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	2.22	0.11	104	1.01	
LC0030	2.03	0.02	95	-1.29	
LC0031	2.15	0.215	101	0.17	
LC0032	< 2.46 (LOQ)	-	-	-	
LC0033	2.122	0.066	99.3	-0.17	
LC0034	2.24	0.1	105	1.26	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	1.98	0.2	92.7	-1.9	
LC0039	-	-	-	-	
LC0040	2.1359	0.1496	100	-0.01	
LC0041	-	-	-	-	

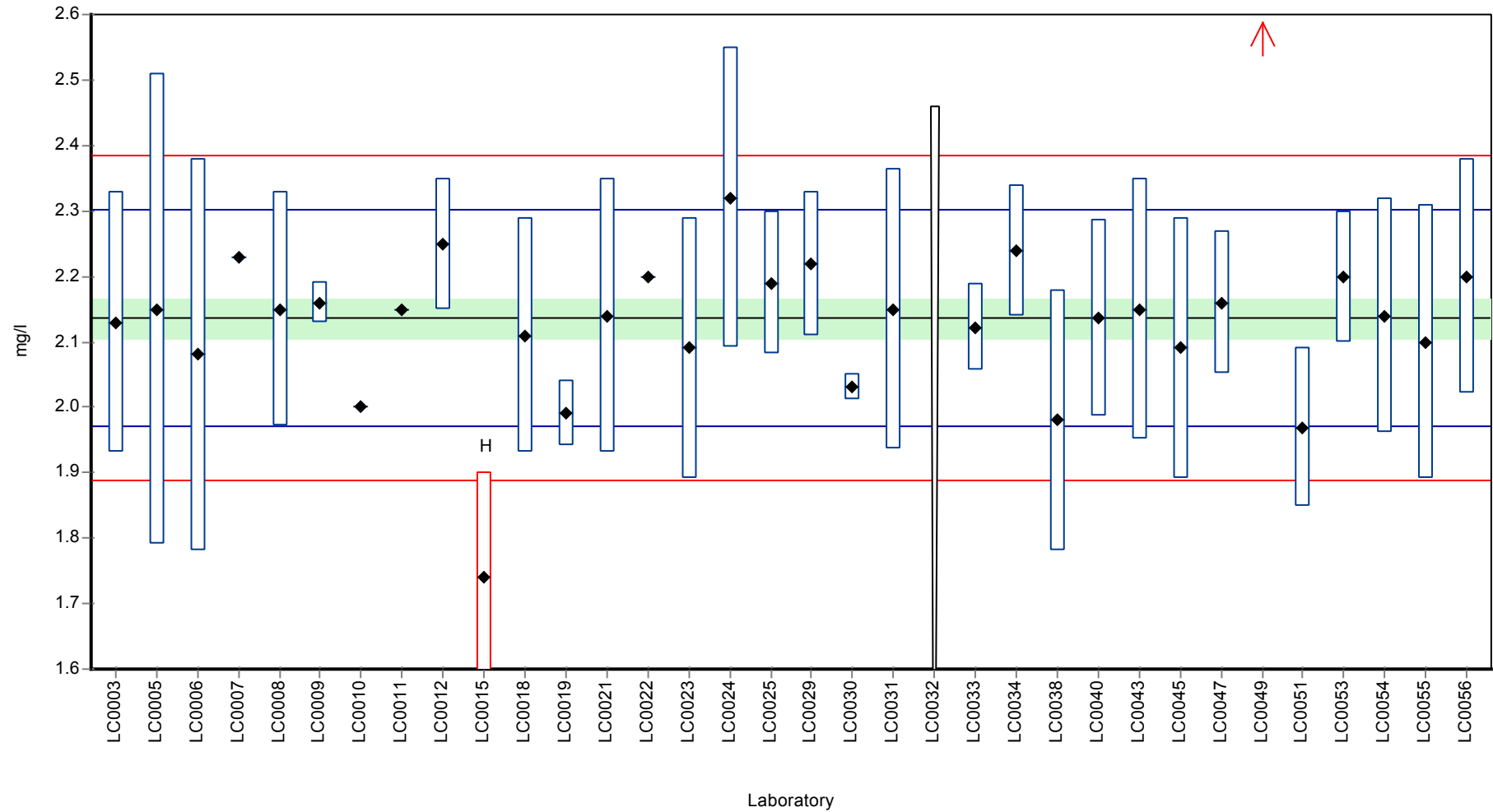
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	2.15	0.2	101	0.17	
LC0044	-	-	-	-	
LC0045	2.09	0.2	97.8	-0.56	
LC0046	-	-	-	-	
LC0047	2.16	0.11	101	0.29	
LC0048	-	-	-	-	
LC0049	2.8	0.3	131	8.05	H
LC0050	-	-	-	-	
LC0051	1.969	0.121	92.2	-2.03	
LC0052	-	-	-	-	
LC0053	2.2	0.1	103	0.77	
LC0054	2.14	0.18	100	0.04	
LC0055	2.1	0.21	98.3	-0.44	
LC0056	2.2	0.18	103	0.77	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	2.14 ± 0.0825	2.14 ± 0.0444	mg/l
Minimum	1.74	1.97	mg/l
Maximum	2.8	2.32	mg/l
Standard deviation	0.158	0.0824	mg/l
rel. Standard deviation	7.37	3.86	%
n	33	31	-

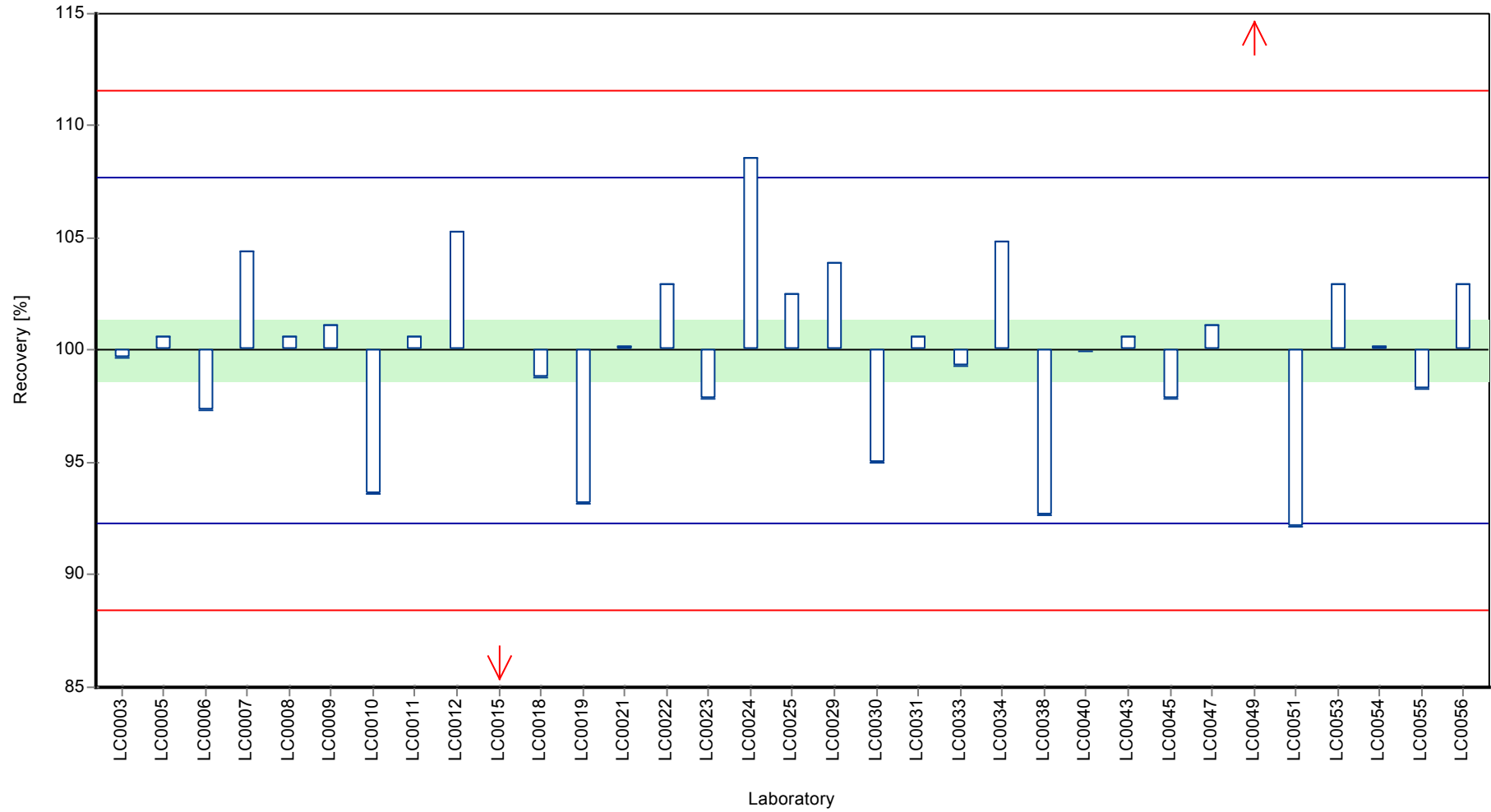
Graphical presentation of results

Results





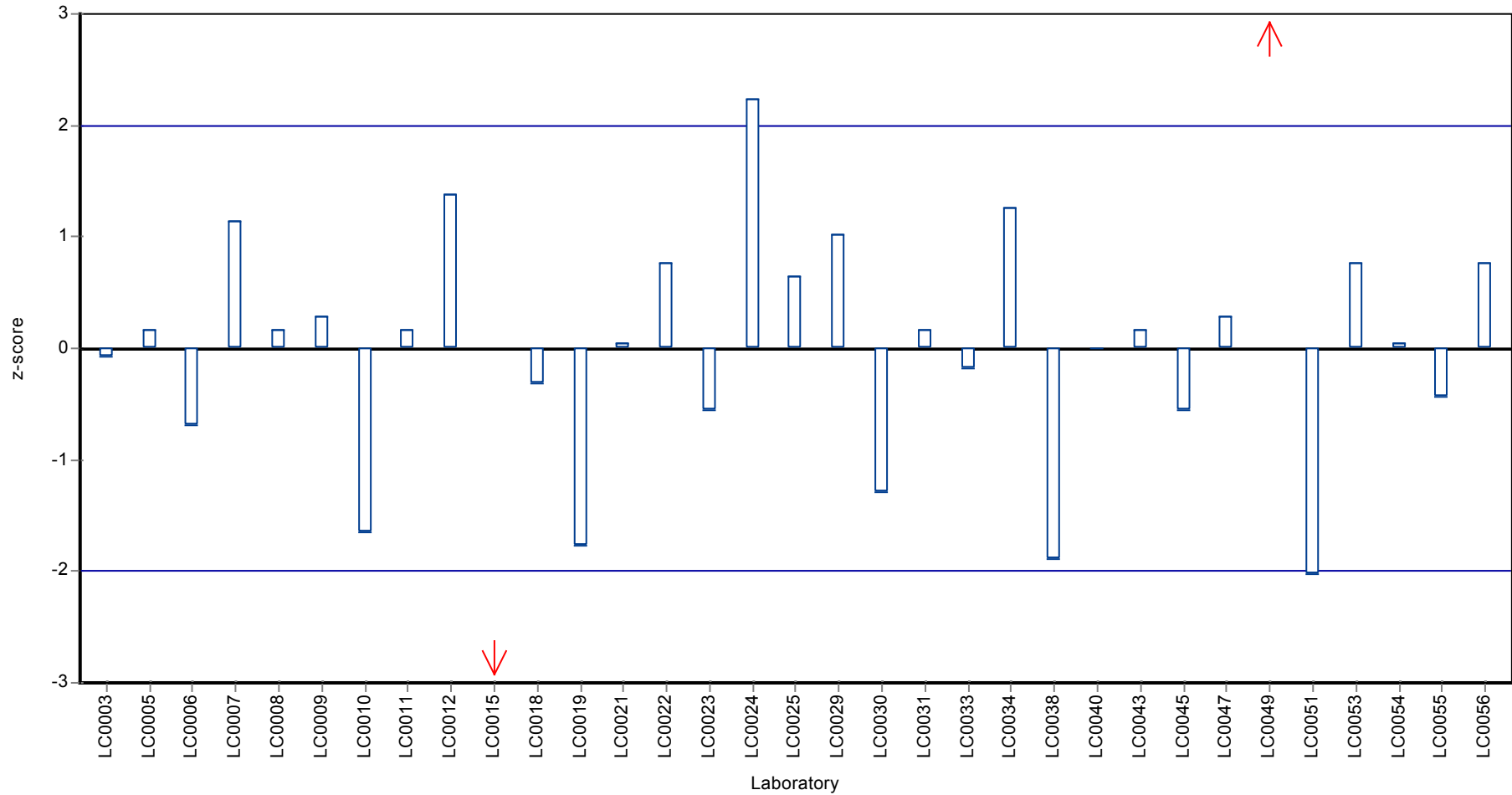
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Potassium

Z-score



## Parameter oriented report

### N140 A

#### El. conductivity (25°C)

Unit	µS/cm
Mean ± CI (99%)	1350 ± 9.38
Minimum - Maximum	1300 - 1400
Control test value ± U	1360 ± 28.7

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	1364	10	101	0.64	
LC0003	1266.64	50.7	93.7	-4.23	H
LC0004	1365	68	101	0.69	
LC0005	1173	5.86	86.8	-8.9	H
LC0006	1370	55	101	0.93	
LC0007	1330	-	98.4	-1.06	
LC0008	1348	54	99.8	-0.16	
LC0009	1350	0.22	99.9	-0.06	
LC0010	1297.9	-	96	-2.67	
LC0011	1287	-	95.2	-3.21	H
LC0012	1354	19	100	0.14	
LC0013	1336	11	98.9	-0.76	
LC0014	-	-	-	-	
LC0015	968	77.4	71.6	-19.1	H
LC0016	1340	67	99.2	-0.56	
LC0017	1345	-	99.5	-0.31	
LC0018	1371	202.9	101	0.98	
LC0019	1358.5	0.71	101	0.36	
LC0020	1315.5	6.3	97.4	-1.79	
LC0021	1360	68	101	0.43	
LC0022	1360	109	101	0.43	
LC0023	1400	35	104	2.43	
LC0024	1360	4.51	101	0.43	
LC0025	1365	27	101	0.69	
LC0026	-	-	-	-	
LC0027	1425	1	105	3.68	H
LC0028	1335	15	98.8	-0.81	
LC0029	1338	0.58	99	-0.66	
LC0030	1330	2	98.4	-1.06	
LC0031	1337	53.5	98.9	-0.71	
LC0032	1360	68	101	0.43	
LC0033	1331	1	98.5	-1.01	
LC0034	1370	29	101	0.93	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	1361	5	101	0.48	
LC0039	-	-	-	-	
LC0040	1357	-	100	0.28	
LC0041	1365	26.21	101	0.69	

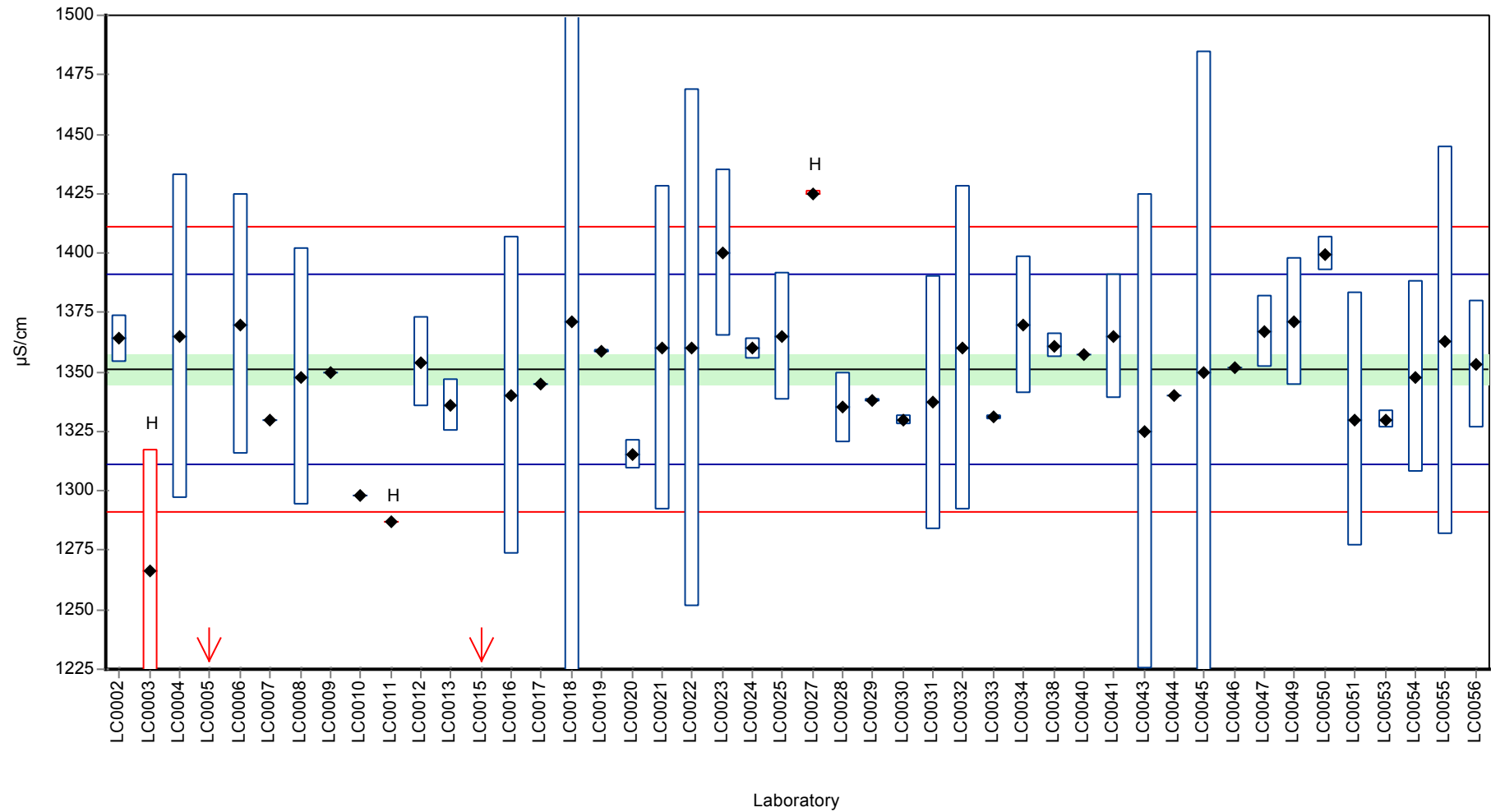
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	1325	100	98.1	-1.31	
LC0044	1340	-	99.2	-0.56	
LC0045	1350	135	99.9	-0.06	
LC0046	1352	-	100	0.04	
LC0047	1367	15	101	0.79	
LC0048	-	-	-	-	
LC0049	1371	27	101	0.98	
LC0050	1399.7	7	104	2.42	
LC0051	1330	53.2	98.4	-1.06	
LC0052	-	-	-	-	
LC0053	1330	4	98.4	-1.06	
LC0054	1348	40	99.8	-0.16	
LC0055	1363	81.8	101	0.58	
LC0056	1353	27	100	0.09	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	1340 ± 29.7	1350 ± 9.38	µS/cm
Minimum	968	1300	µS/cm
Maximum	1420	1400	µS/cm
Standard deviation	67.1	20	µS/cm
rel. Standard deviation	5.02	1.48	%
n	46	41	-

Graphical presentation of results

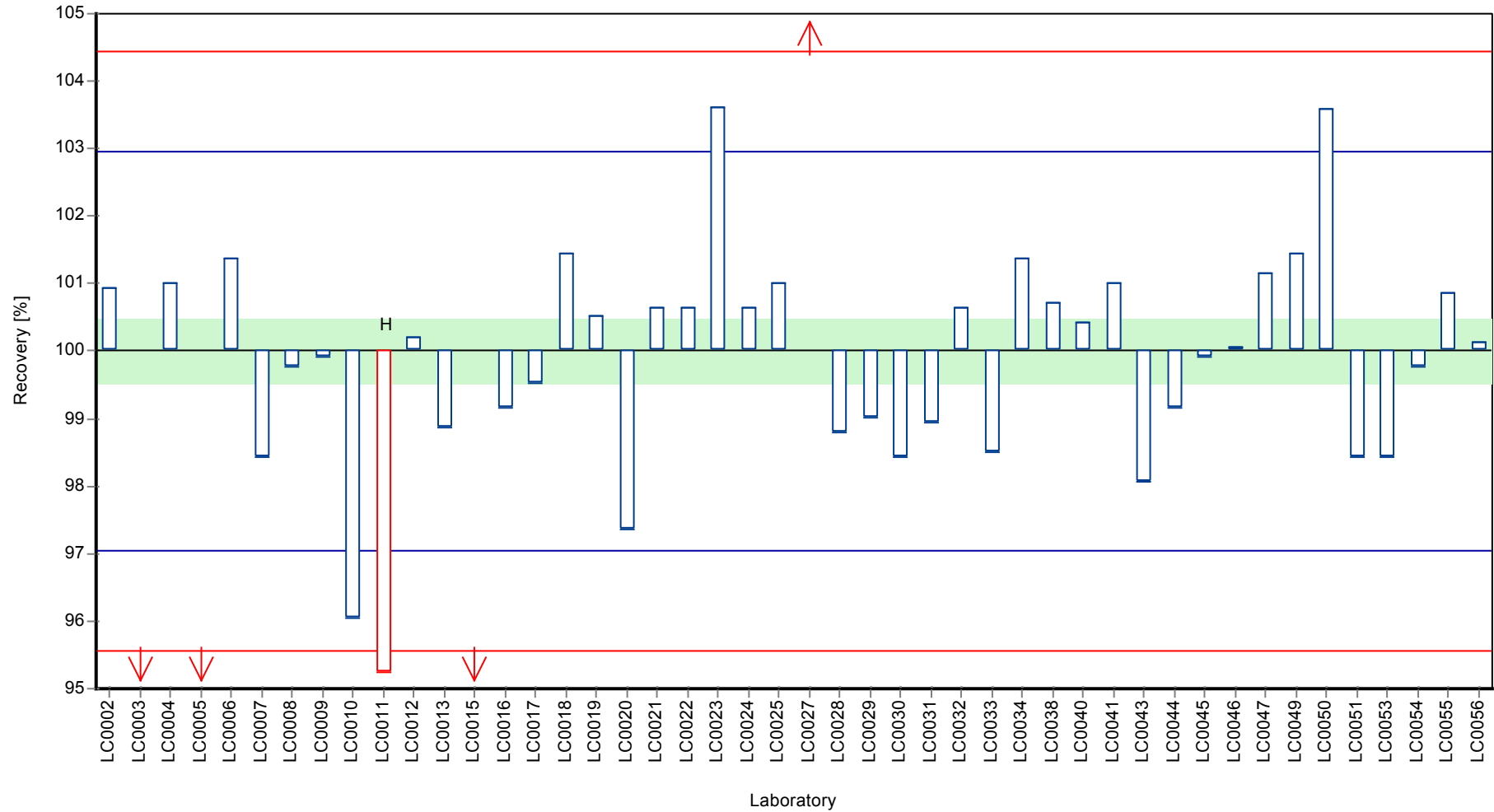
Results



Parameter oriented report Major ions N140

Sample: N140A, Parameter: El. conductivity (25°C)

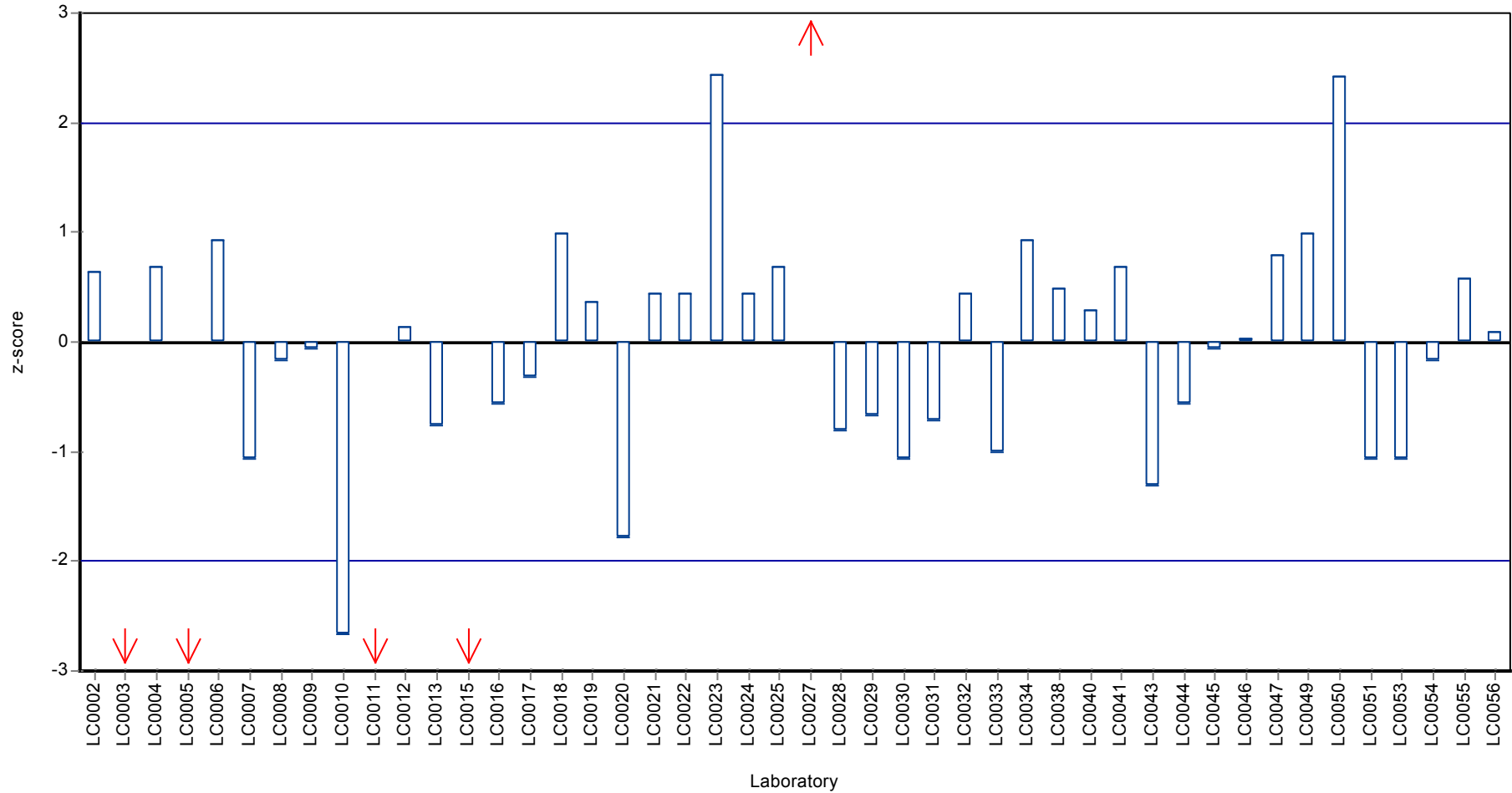
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: El. conductivity (25°C)

Z-score



## Parameter oriented report

### N140 B

#### El. conductivity (25°C)

Unit	µS/cm
Mean ± CI (99%)	453 ± 3.01
Minimum - Maximum	435 - 467
Control test value ± U	454 ± 7.2

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	457.5	2	101	0.69	
LC0003	428.13	17.1	94.5	-3.77	H
LC0004	459	23	101	0.92	
LC0005	401	2.01	88.5	-7.89	H
LC0006	455	19	100	0.31	
LC0007	449	-	99.1	-0.6	
LC0008	446	18	98.5	-1.06	
LC0009	446	0.27	98.5	-1.06	
LC0010	435.3	-	96.1	-2.68	
LC0011	440	-	97.1	-1.97	
LC0012	453	6.3	100	0.01	
LC0013	450	11	99.3	-0.45	
LC0014	-	-	-	-	
LC0015	326	26.1	72	-19.3	H
LC0016	449	22.4	99.1	-0.6	
LC0017	455	-	100	0.31	
LC0018	460	68.1	102	1.07	
LC0019	454.5	0.71	100	0.23	
LC0020	454.25	6.3	100	0.2	
LC0021	457	23	101	0.61	
LC0022	438	35	96.7	-2.27	
LC0023	467	12	103	2.13	
LC0024	455	4.51	100	0.31	
LC0025	455	9	100	0.31	
LC0026	-	-	-	-	
LC0027	464	1	102	1.68	
LC0028	446	15	98.5	-1.06	
LC0029	459	0.4	101	0.92	
LC0030	448.4	2	99	-0.69	
LC0031	448	17.9	98.9	-0.75	
LC0032	456	23	101	0.46	
LC0033	449	1	99.1	-0.6	
LC0034	464	11	102	1.68	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	459	5	101	0.92	
LC0039	-	-	-	-	
LC0040	455	-	100	0.31	
LC0041	458	8.79	101	0.77	



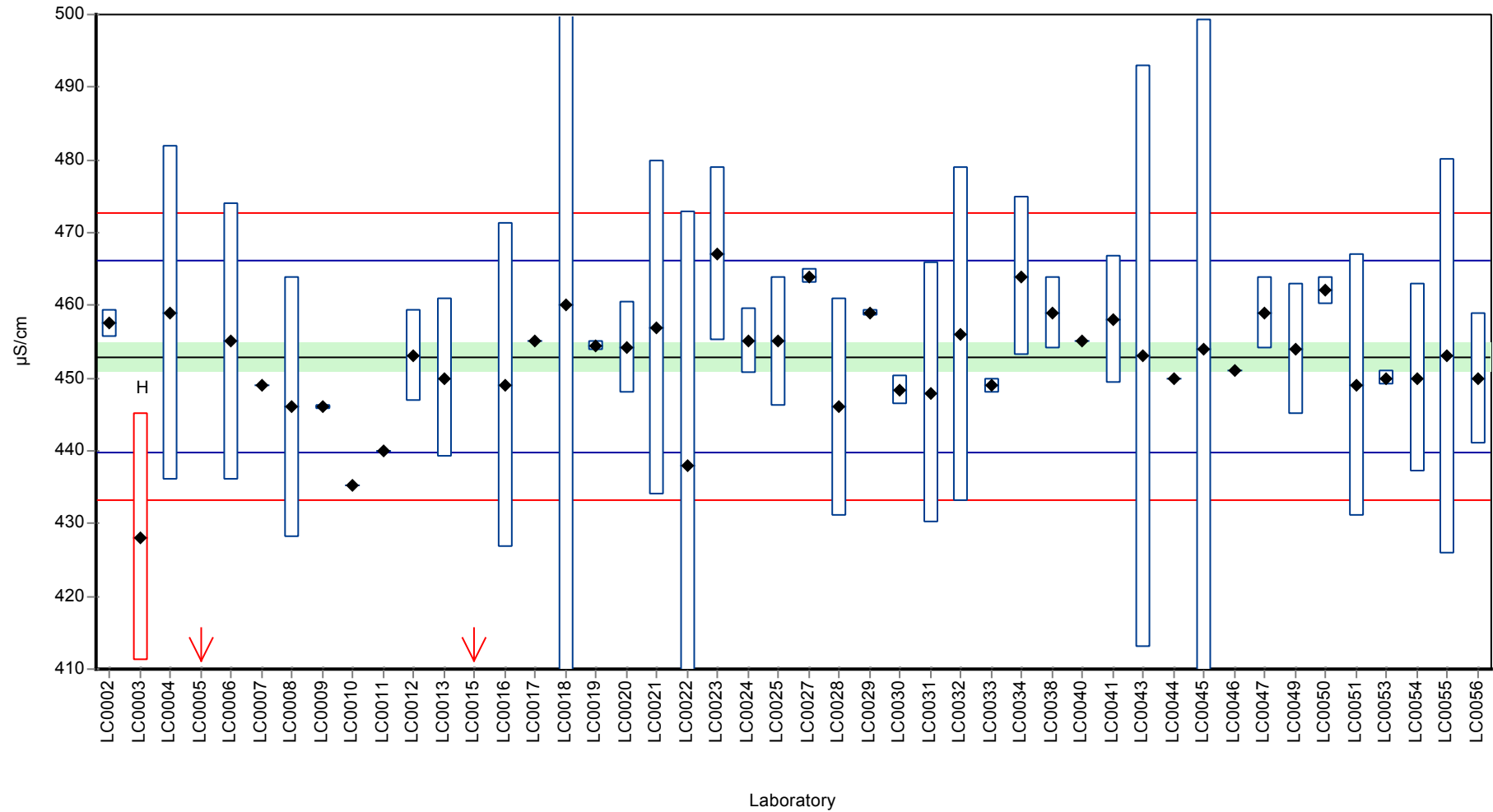
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	453	40	100	0.01	
LC0044	450	-	99.3	-0.45	
LC0045	454	45.4	100	0.16	
LC0046	451	-	99.6	-0.3	
LC0047	459	5	101	0.92	
LC0048	-	-	-	-	
LC0049	454	9	100	0.16	
LC0050	462	2	102	1.37	
LC0051	449	17.96	99.1	-0.6	
LC0052	-	-	-	-	
LC0053	450	1	99.3	-0.45	
LC0054	450	13	99.3	-0.45	
LC0055	453	27.2	100	0.01	
LC0056	450	9	99.3	-0.45	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	449 ± 9.41	453 ± 3.01	µS/cm
Minimum	326	435	µS/cm
Maximum	467	467	µS/cm
Standard deviation	21.3	6.58	µS/cm
rel. Standard deviation	4.74	1.45	%
n	46	43	-

Graphical presentation of results

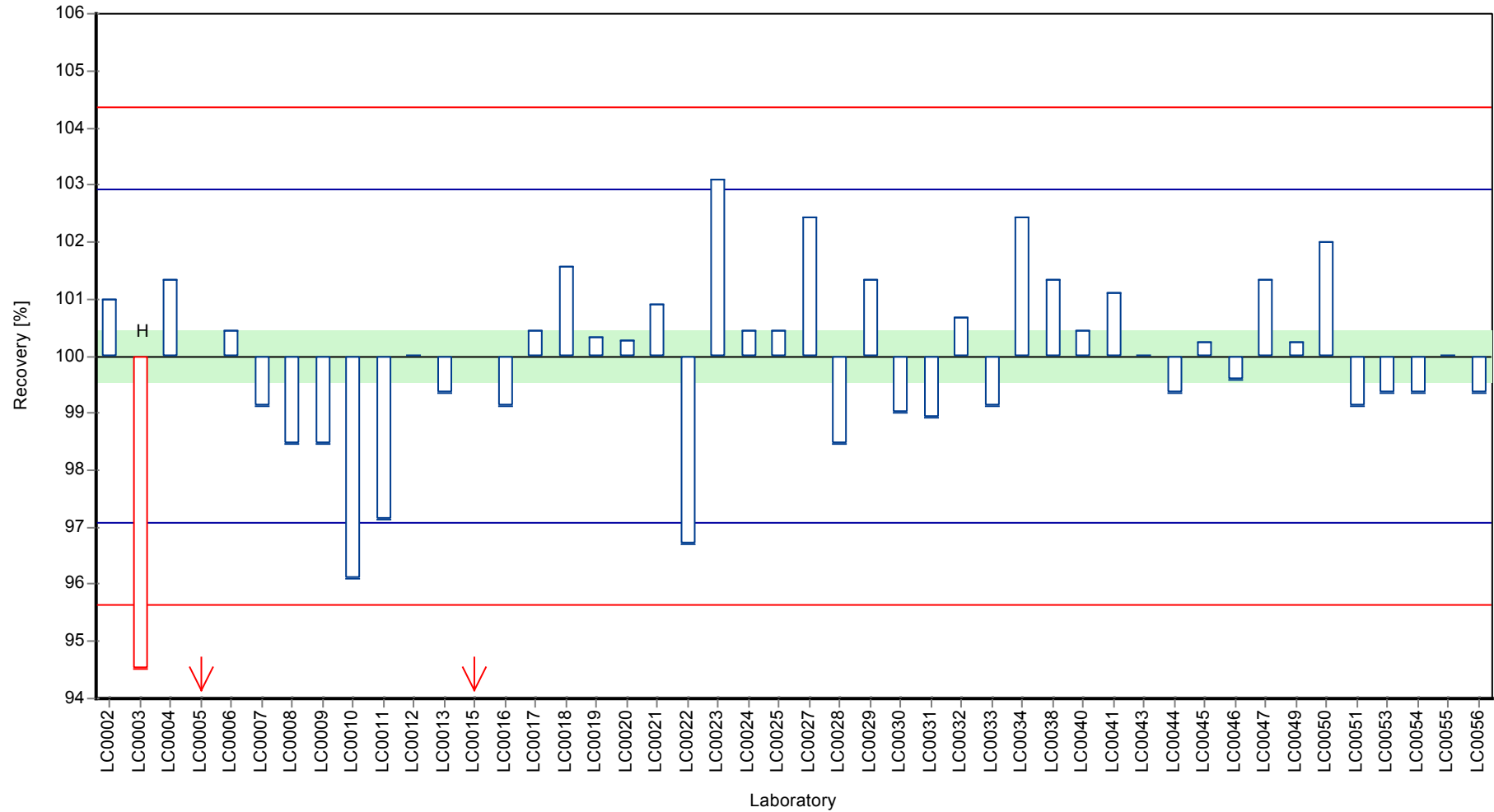
Results



Parameter oriented report Major ions N140

Sample: N140B, Parameter: El. conductivity (25°C)

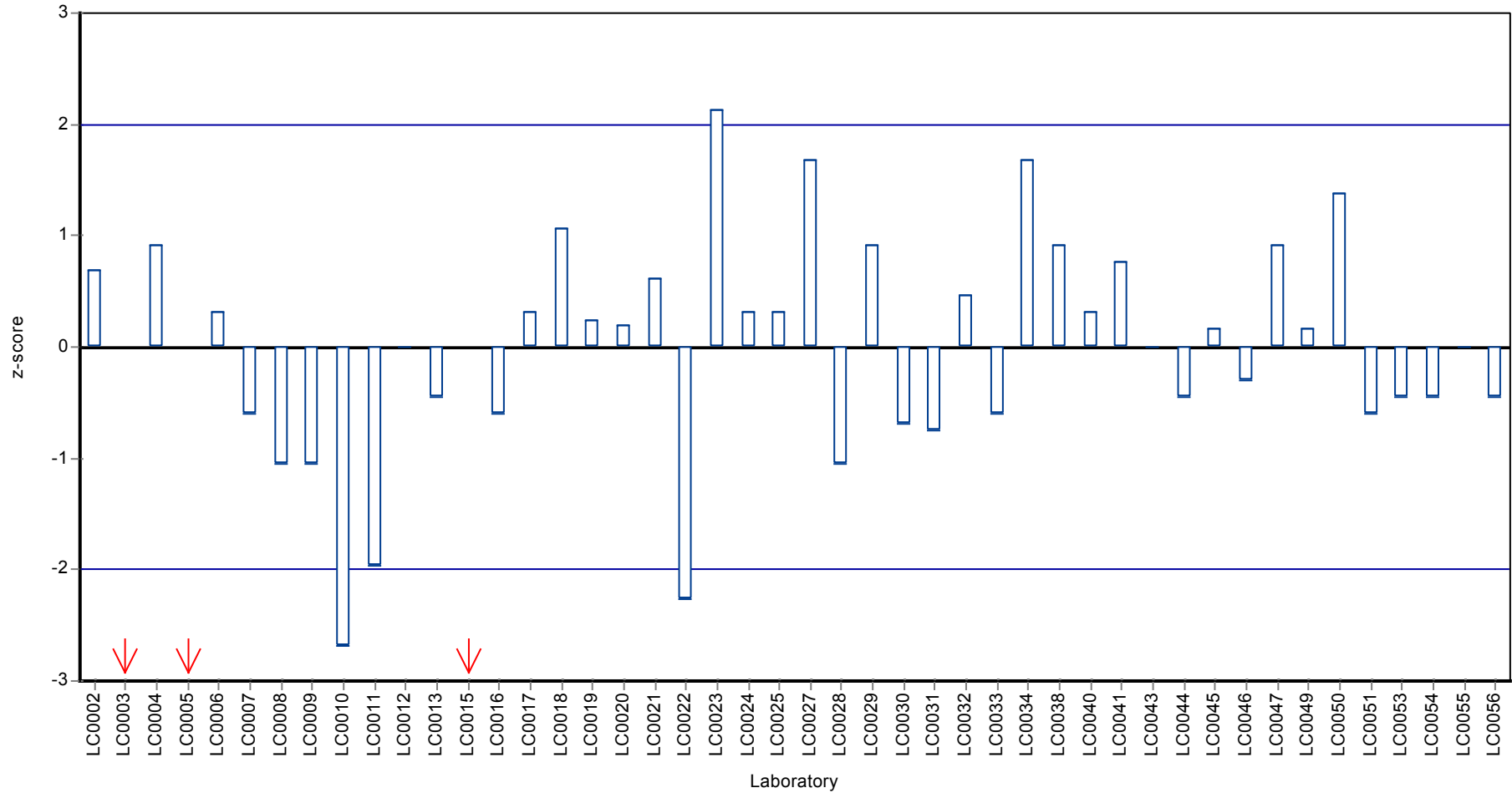
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: El. conductivity (25°C)

Z-score



## Parameter oriented report

### N140 A

#### Magnesium

Unit	mg/l
Mean ± CI (99%)	65.1 ± 0.886
Minimum - Maximum	60.3 - 67.2
Control test value ± U	64.9 ± 6.82

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	67.2	2.5	103	1.2	
LC0003	66.083	6.7	101	0.55	
LC0004	-	-	-	-	
LC0005	66.5	2.73	102	0.79	
LC0006	65	8	99.8	-0.08	
LC0007	63.7	-	97.8	-0.84	
LC0008	65.21	4.04	100	0.04	
LC0009	64.2	0.268	98.6	-0.55	
LC0010	66	-	101	0.5	
LC0011	63.5	-	97.5	-0.95	
LC0012	66	3.9	101	0.5	
LC0013	-	-	-	-	
LC0014	67.1078	0.0309	103	1.14	
LC0015	56.65	11.3	87	-4.93	H
LC0016	66.9095	10	103	1.03	
LC0017	-	-	-	-	
LC0018	65.72	4.08	101	0.34	
LC0019	50.83	1.28	78	-8.31	H
LC0020	-	-	-	-	
LC0021	65.8	10.5	101	0.38	
LC0022	65.1	-	99.9	-0.02	
LC0023	64.4	6	98.9	-0.43	
LC0024	66.92	6.5	103	1.03	
LC0025	63.8	3.2	97.9	-0.78	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	62.7	1.2	96.3	-1.42	
LC0030	62.73	0.8	96.3	-1.4	
LC0031	65.73	3.944	101	0.34	
LC0032	63.3	6.33	97.2	-1.07	
LC0033	56.82	1.069	87.2	-4.83	H
LC0034	65.2	3	100	0.04	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	67	6.7	103	1.08	
LC0039	-	-	-	-	
LC0040	67.0848	1.2227	103	1.13	
LC0041	-	-	-	-	

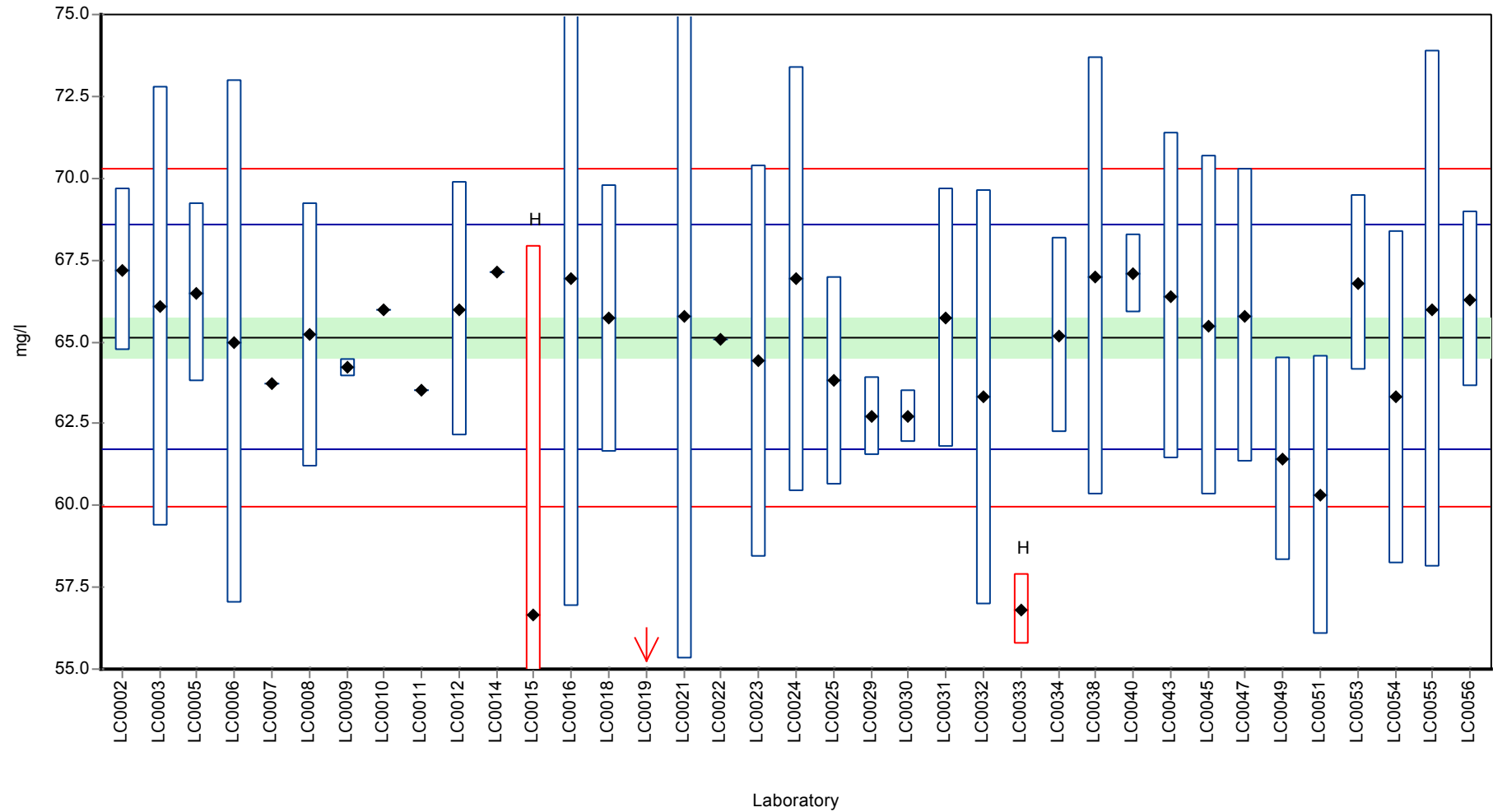
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	66.4	5	102	0.73	
LC0044	-	-	-	-	
LC0045	65.5	5.2	101	0.21	
LC0046	-	-	-	-	
LC0047	65.8	4.5	101	0.38	
LC0048	-	-	-	-	
LC0049	61.4	3.1	94.3	-2.17	
LC0050	-	-	-	-	
LC0051	60.32	4.25	92.6	-2.8	
LC0052	-	-	-	-	
LC0053	66.8	2.7	103	0.96	
LC0054	63.3	5.1	97.2	-1.07	
LC0055	66	7.9	101	0.5	
LC0056	66.3	2.7	102	0.68	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	64.3 ± 1.68	65.1 ± 0.886	mg/l
Minimum	50.8	60.3	mg/l
Maximum	67.2	67.2	mg/l
Standard deviation	3.41	1.72	mg/l
rel. Standard deviation	5.3	2.64	%
n	37	34	-

Graphical presentation of results

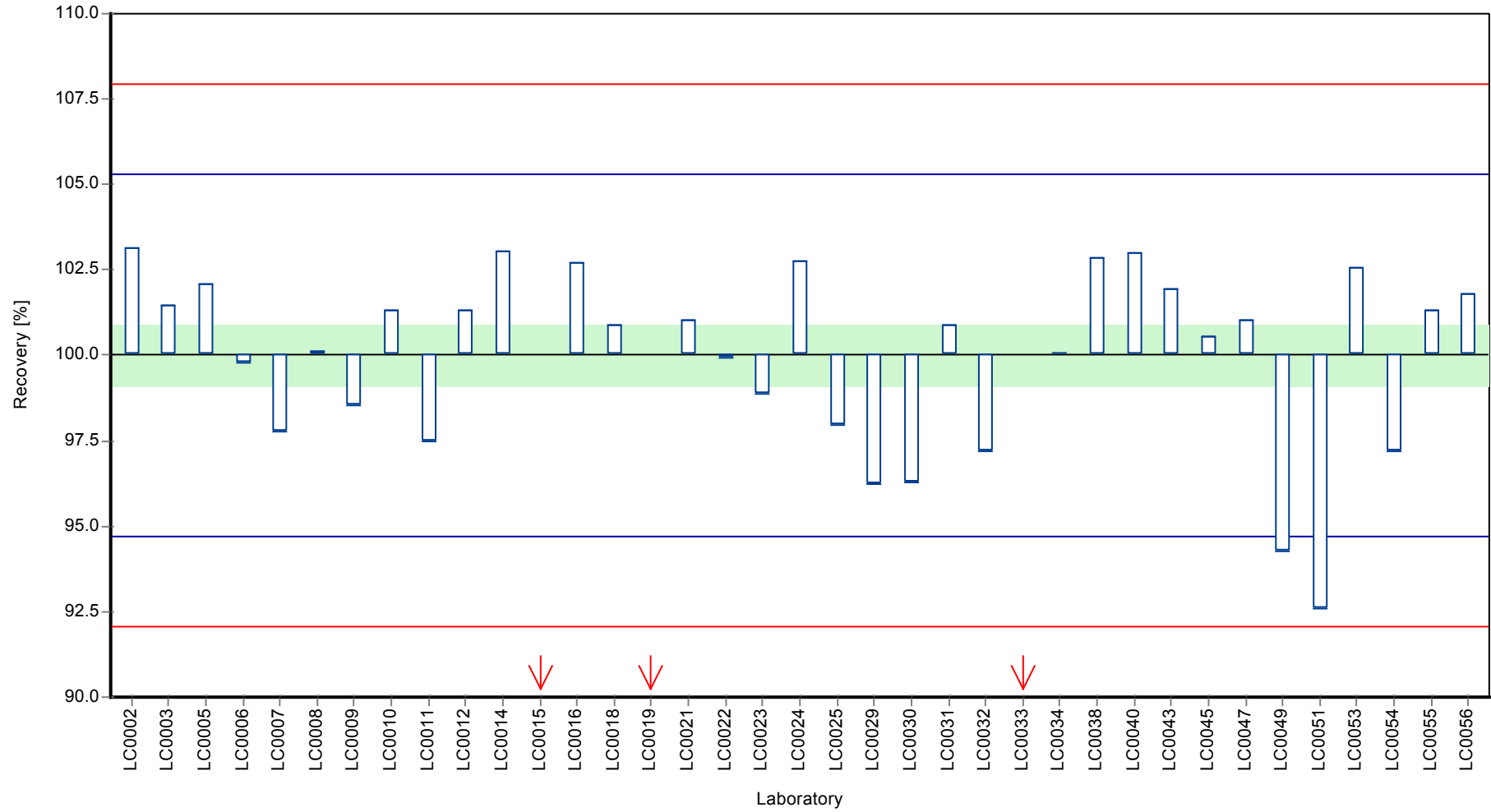
Results



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Magnesium

Recovery rate

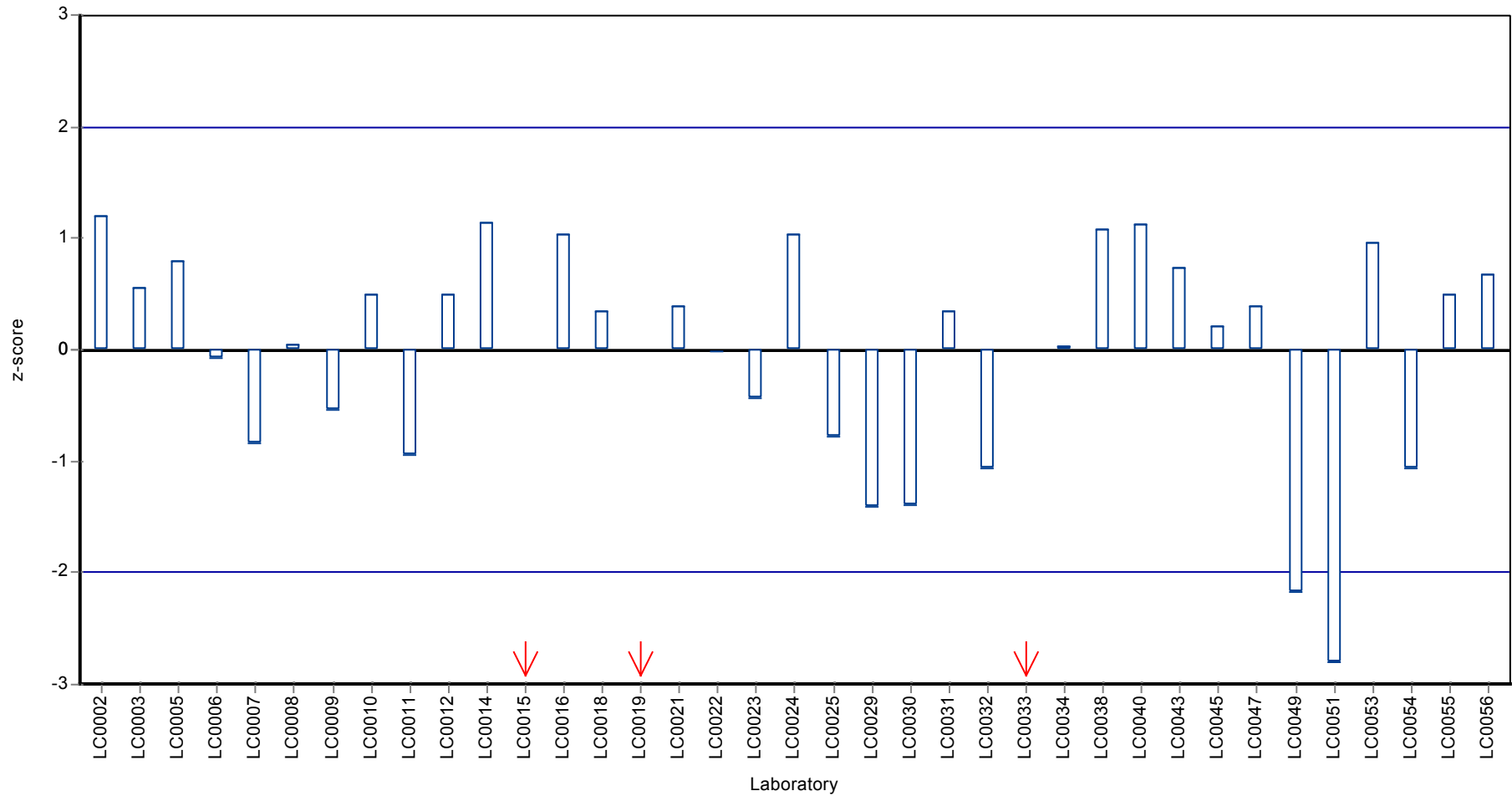




Parameter oriented report Major ions N140

Sample: N140A, Parameter: Magnesium

Z-score



## Parameter oriented report

### N140 B

#### Magnesium

Unit	mg/l
Mean ± CI (99%)	12.9 ± 0.23
Minimum - Maximum	11.7 - 14
Control test value ± U	13.7 ± 1.44

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	12.8	2.5	99	-0.29	
LC0003	13.045	1.3	101	0.24	
LC0004	-	-	-	-	
LC0005	15.1	0.62	117	4.71	H
LC0006	13	1.6	101	0.15	
LC0007	14.6	-	113	3.62	H
LC0008	12.95	0.8	100	0.04	
LC0009	12.6	0.276	97.4	-0.72	
LC0010	14	-	108	2.32	
LC0011	12.6	-	97.4	-0.72	
LC0012	12.8	0.75	99	-0.29	
LC0013	-	-	-	-	
LC0014	13.6738	0.0663	106	1.61	
LC0015	12.4	2.5	95.9	-1.16	
LC0016	13.9387	2.09	108	2.19	
LC0017	-	-	-	-	
LC0018	12.93	0.8	100	-0.01	
LC0019	11.71	0.17	90.5	-2.66	
LC0020	-	-	-	-	
LC0021	12.9	2.06	99.7	-0.07	
LC0022	13.4	-	104	1.02	
LC0023	13.1	1.3	101	0.36	
LC0024	13.35	1.3	103	0.91	
LC0025	12.7	0.6	98.2	-0.51	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	12.6	0.23	97.4	-0.72	
LC0030	12.57	0.8	97.2	-0.79	
LC0031	13.12	0.787	101	0.41	
LC0032	12.9	1.29	99.7	-0.07	
LC0033	12.26	0.03	94.8	-1.46	
LC0034	13.1	0.6	101	0.36	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	13.6	1.4	105	1.45	
LC0039	-	-	-	-	
LC0040	12.7926	0.2404	98.9	-0.3	
LC0041	-	-	-	-	

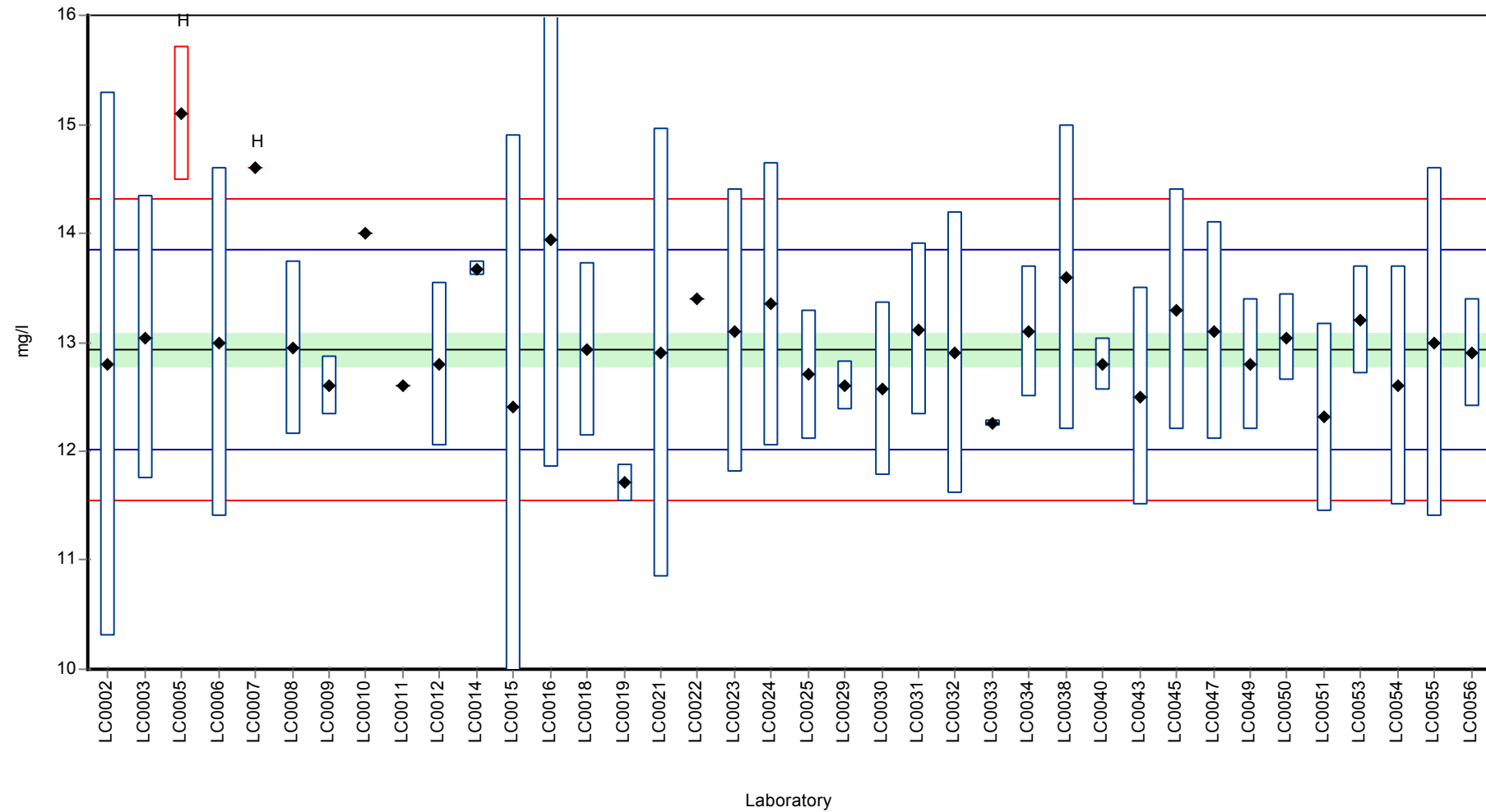
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	12.5	1	96.7	-0.94	
LC0044	-	-	-	-	
LC0045	13.3	1.1	103	0.8	
LC0046	-	-	-	-	
LC0047	13.1	1	101	0.36	
LC0048	-	-	-	-	
LC0049	12.8	0.6	99	-0.29	
LC0050	13.04	0.4	101	0.23	
LC0051	12.31	0.87	95.2	-1.35	
LC0052	-	-	-	-	
LC0053	13.2	0.5	102	0.58	
LC0054	12.6	1.1	97.4	-0.72	
LC0055	13	1.6	101	0.15	
LC0056	12.9	0.5	99.7	-0.07	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	13 ± 0.305	12.9 ± 0.23	mg/l
Minimum	11.7	11.7	mg/l
Maximum	15.1	14	mg/l
Standard deviation	0.626	0.46	mg/l
rel. Standard deviation	4.8	3.56	%
n	38	36	-

Graphical presentation of results

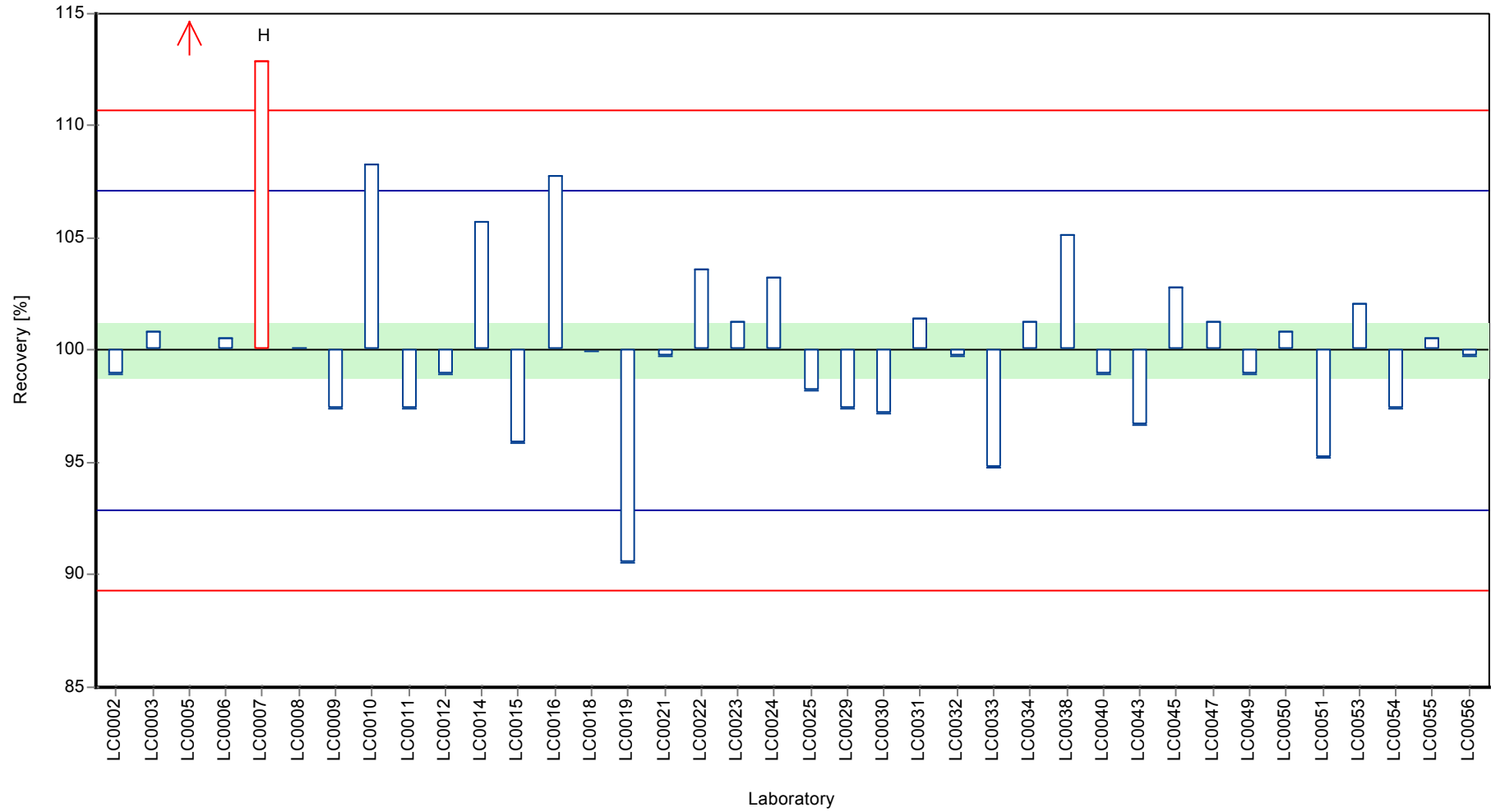
Results



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Magnesium

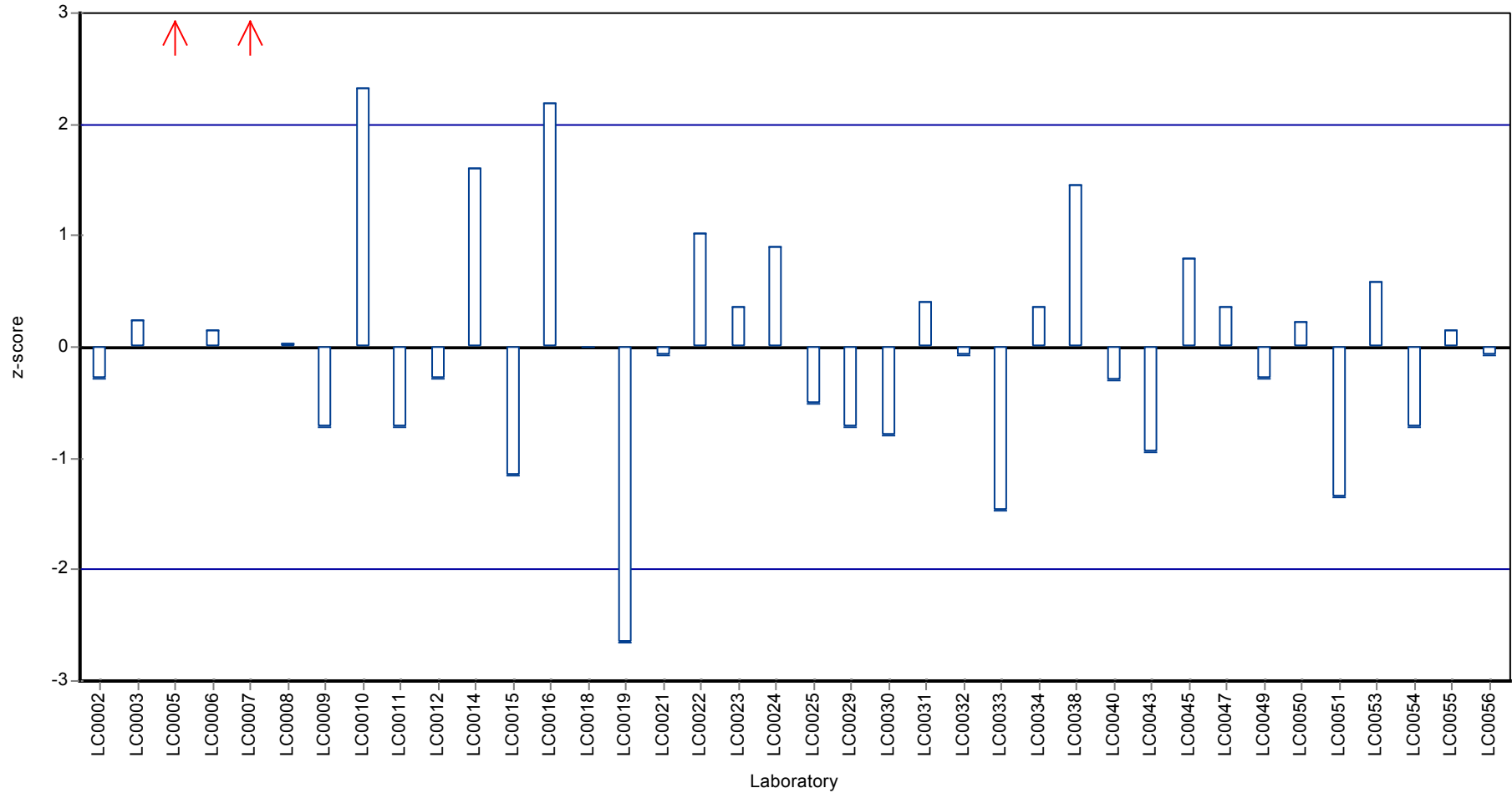
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Magnesium

Z-score



## Parameter oriented report

### N140 A

#### Sodium

Unit	mg/l
Mean ± CI (99%)	44.1 ± 0.78
Minimum - Maximum	41.1 - 46.7
Control test value ± U	44.3 ± 4.64

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	44.406	4.6	101	0.21	
LC0004	-	-	-	-	
LC0005	24.4	2.3	55.3	-13.4	H
LC0006	43.5	7	98.6	-0.41	
LC0007	46.5	-	105	1.63	
LC0008	43.67	3.67	99	-0.29	
LC0009	43.2	1.42	98	-0.61	
LC0010	46	-	104	1.29	
LC0011	43.3	-	98.2	-0.55	
LC0012	46.2	2.3	105	1.43	
LC0013	-	-	-	-	
LC0014	46.7139	0.0428	106	1.78	
LC0015	27.24	2.45	61.8	-11.5	H
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	43.9	3.07	99.5	-0.14	
LC0019	36.79	0.15	83.4	-4.97	H
LC0020	-	-	-	-	
LC0021	44.8	5.82	102	0.47	
LC0022	44.4	-	101	0.2	
LC0023	44.2	4	100	0.07	
LC0024	44.86	4.4	102	0.52	
LC0025	44.5	2.2	101	0.27	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	45.4	0.57	103	0.88	
LC0030	42.91	0.8	97.3	-0.81	
LC0031	42.39	2.542	96.1	-1.16	
LC0032	44.3	5.3	100	0.13	
LC0033	41.06	0.689	93.1	-2.07	
LC0034	42.6	1.9	96.6	-1.02	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	44	4.4	99.8	-0.07	
LC0039	-	-	-	-	
LC0040	45.3698	3.6807	103	0.86	
LC0041	-	-	-	-	

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	45.7	5	104	1.09	
LC0044	-	-	-	-	
LC0045	41.5	6.6	94.1	-1.77	
LC0046	-	-	-	-	
LC0047	44.8	2.5	102	0.47	
LC0048	-	-	-	-	
LC0049	41.7	2.2	94.6	-1.63	
LC0050	-	-	-	-	
LC0051	41.7	4.67	94.6	-1.63	
LC0052	-	-	-	-	
LC0053	44.6	0.7	101	0.34	
LC0054	43.6	3.5	98.9	-0.34	
LC0055	44	2.8	99.8	-0.07	
LC0056	45.5	1.8	103	0.95	

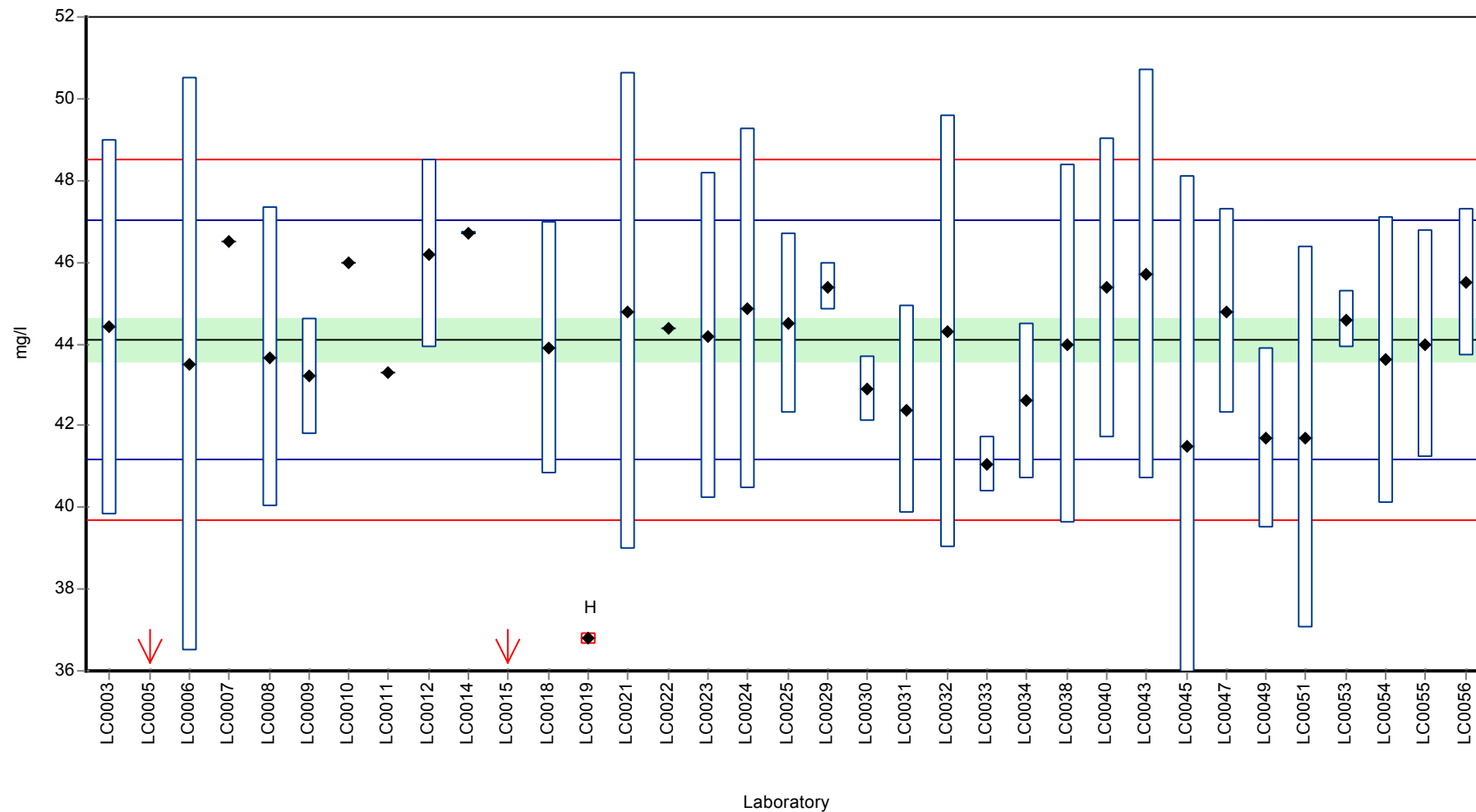
#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	42.8 ± 2.36	44.1 ± 0.78	mg/l
Minimum	24.4	41.1	mg/l
Maximum	46.7	46.7	mg/l
Standard deviation	4.66	1.47	mg/l
rel. Standard deviation	10.9	3.33	%
n	35	32	-



Graphical presentation of results

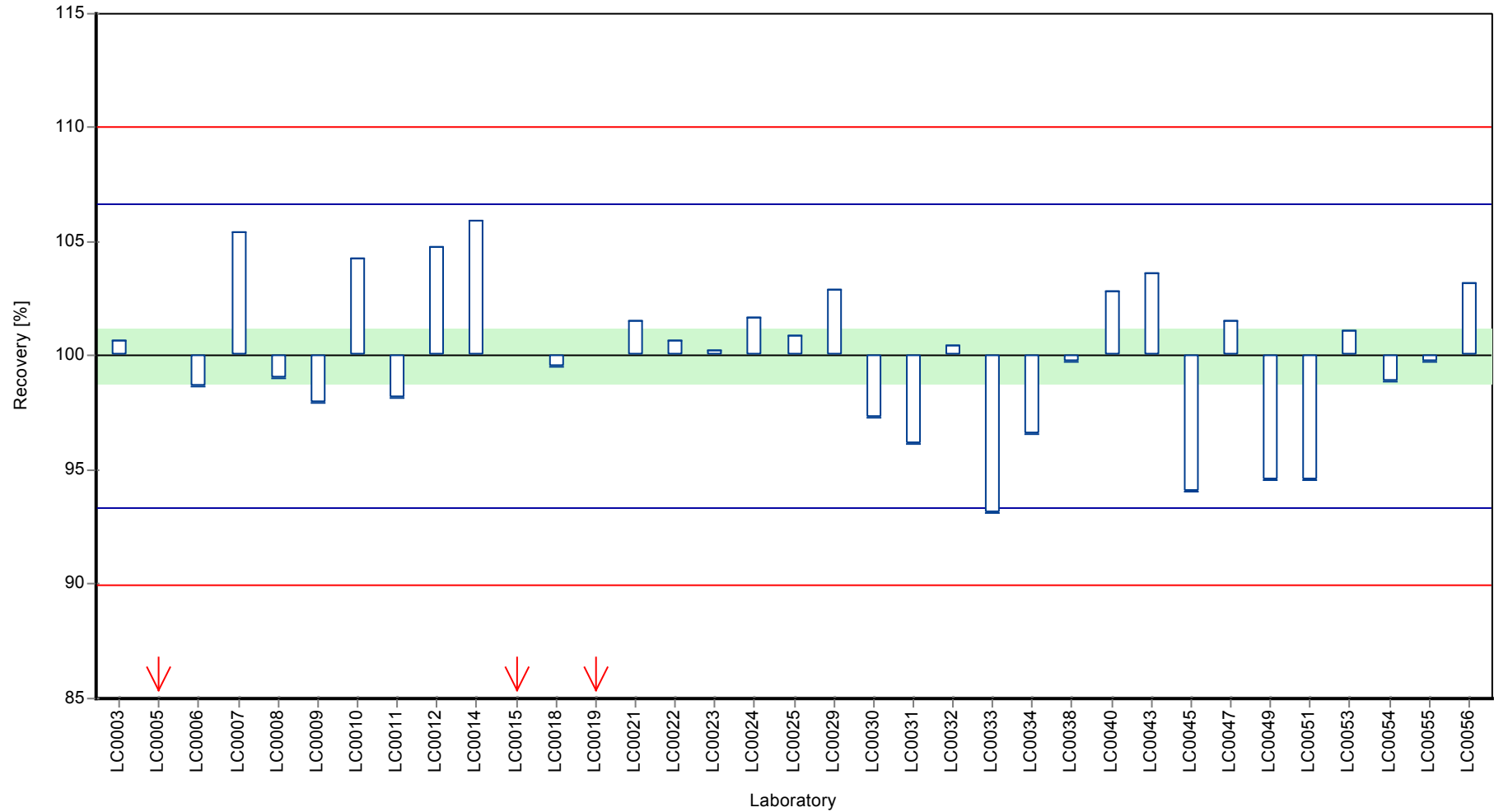
Results



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Sodium

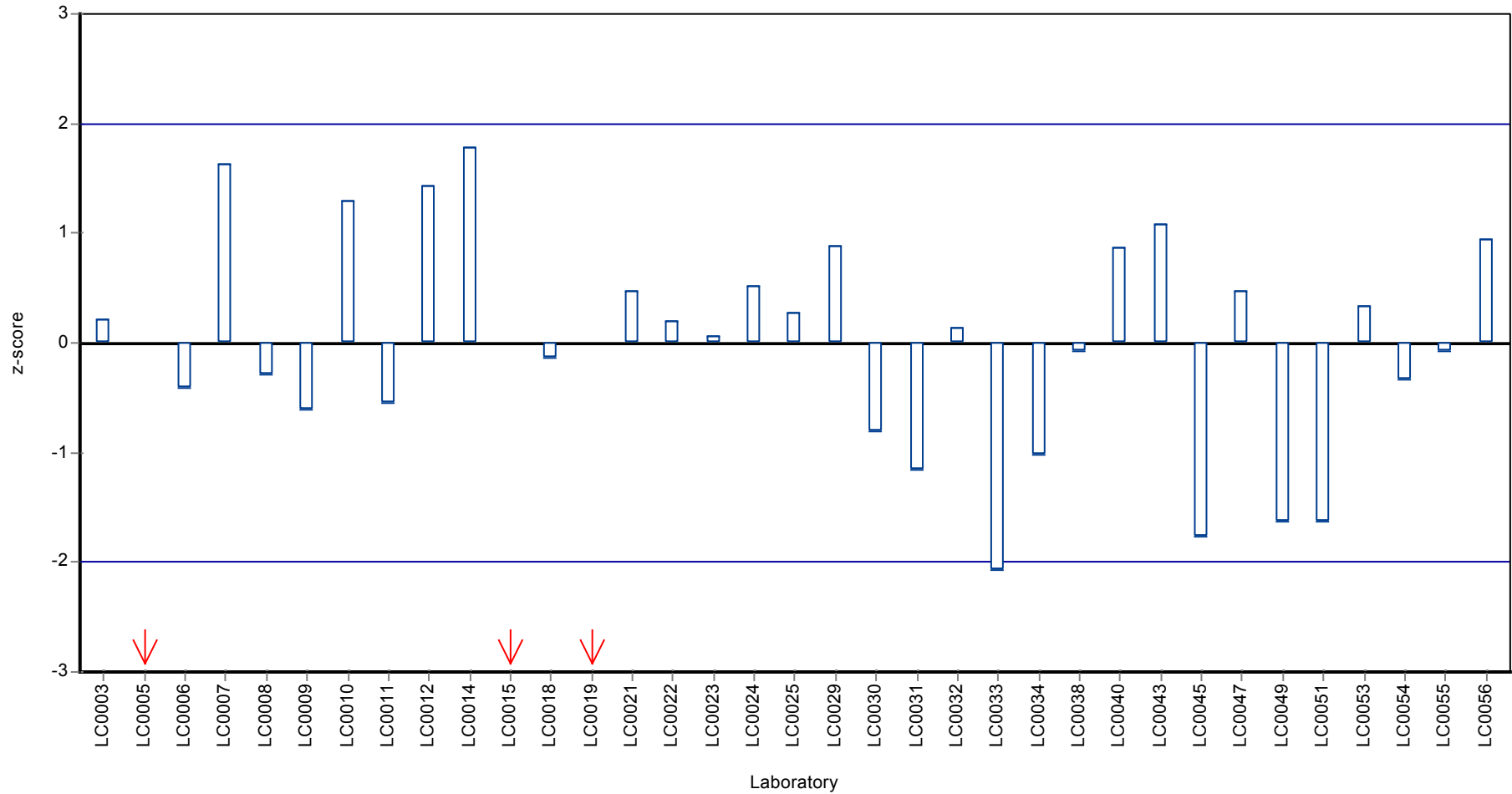
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Sodium

Z-score



## Parameter oriented report

### N140 B

#### Sodium

Unit	mg/l
Mean ± CI (99%)	12.7 ± 0.206
Minimum - Maximum	11.9 - 13.7
Control test value ± U	13.4 ± 1.4

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	12.569	1.3	98.9	-0.38	
LC0004	-	-	-	-	
LC0005	8.2	0.67	64.5	-11.8	H
LC0006	12.9	2	101	0.48	
LC0007	13.7	-	108	2.58	
LC0008	12.45	1.05	97.9	-0.69	
LC0009	12.7	1.08	99.9	-0.04	
LC0010	12	-	94.4	-1.87	
LC0011	12.8	-	101	0.22	
LC0012	13	0.65	102	0.75	
LC0013	-	-	-	-	
LC0014	14.0649	0.0591	111	3.53	H
LC0015	9.65	0.89	75.9	-8.02	H
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	12.72	0.89	100	0.01	
LC0019	10.66	0.11	83.8	-5.38	H
LC0020	-	-	-	-	
LC0021	12.7	1.65	99.9	-0.04	
LC0022	13.3	-	105	1.53	
LC0023	12.9	1.3	101	0.48	
LC0024	12.88	1.3	101	0.43	
LC0025	12.6	0.6	99.1	-0.3	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	13.3	0.25	105	1.53	
LC0030	12.37	0.8	97.3	-0.9	
LC0031	12.17	0.73	95.7	-1.43	
LC0032	12.9	1.6	101	0.48	
LC0033	12.45	0.055	97.9	-0.69	
LC0034	12.6	0.7	99.1	-0.3	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	12.8	1.3	101	0.22	
LC0039	-	-	-	-	
LC0040	12.4193	0.7407	97.7	-0.77	
LC0041	-	-	-	-	

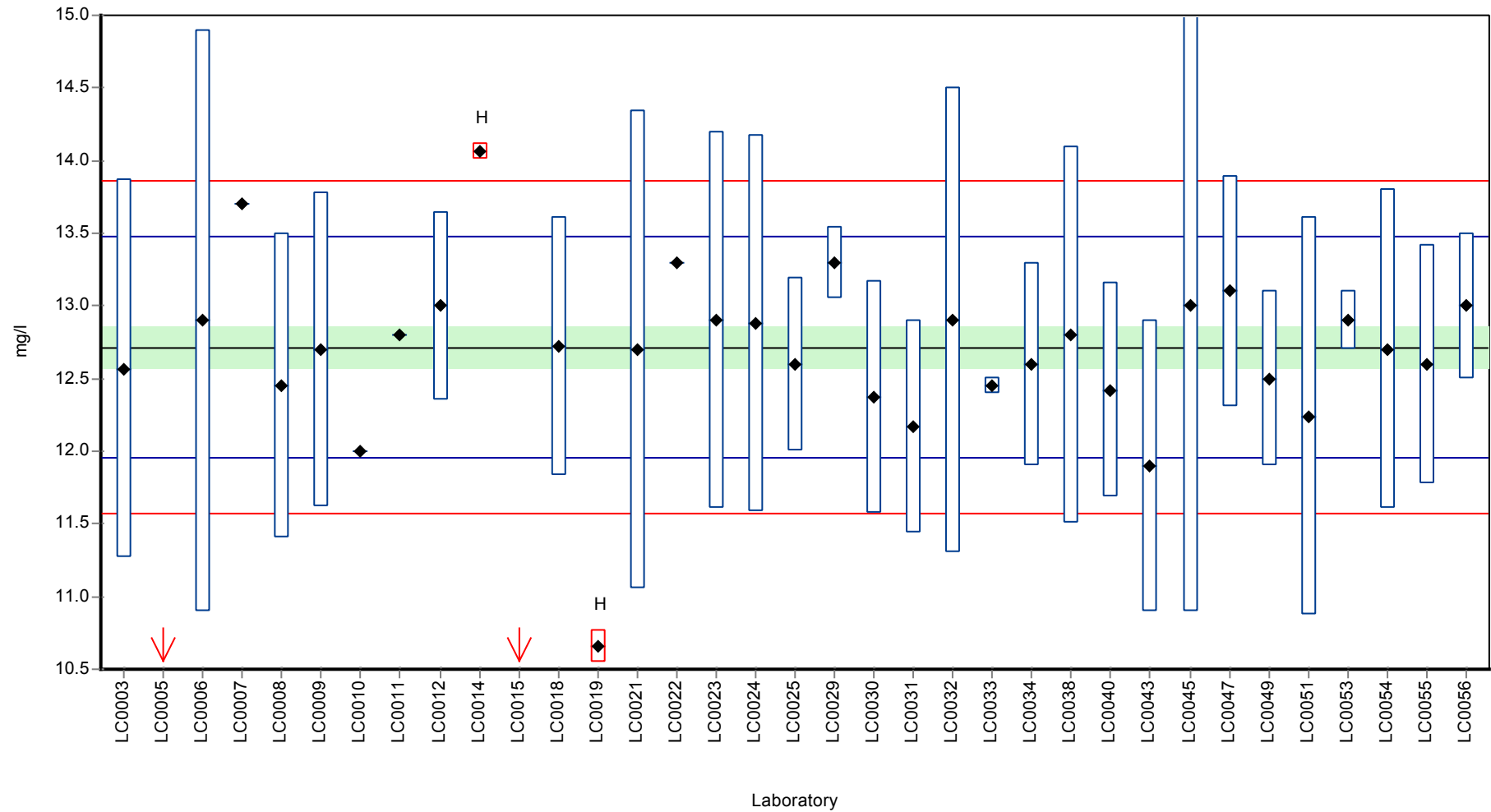
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	11.9	1	93.6	-2.13	
LC0044	-	-	-	-	
LC0045	13	2.1	102	0.75	
LC0046	-	-	-	-	
LC0047	13.1	0.8	103	1.01	
LC0048	-	-	-	-	
LC0049	12.5	0.6	98.3	-0.56	
LC0050	-	-	-	-	
LC0051	12.24	1.37	96.3	-1.24	
LC0052	-	-	-	-	
LC0053	12.9	0.2	101	0.48	
LC0054	12.7	1.1	99.9	-0.04	
LC0055	12.6	0.82	99.1	-0.3	
LC0056	13	0.5	102	0.75	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	12.5 ± 0.538	12.7 ± 0.206	mg/l
Minimum	8.2	11.9	mg/l
Maximum	14.1	13.7	mg/l
Standard deviation	1.06	0.382	mg/l
rel. Standard deviation	8.5	3	%
n	35	31	-

Graphical presentation of results

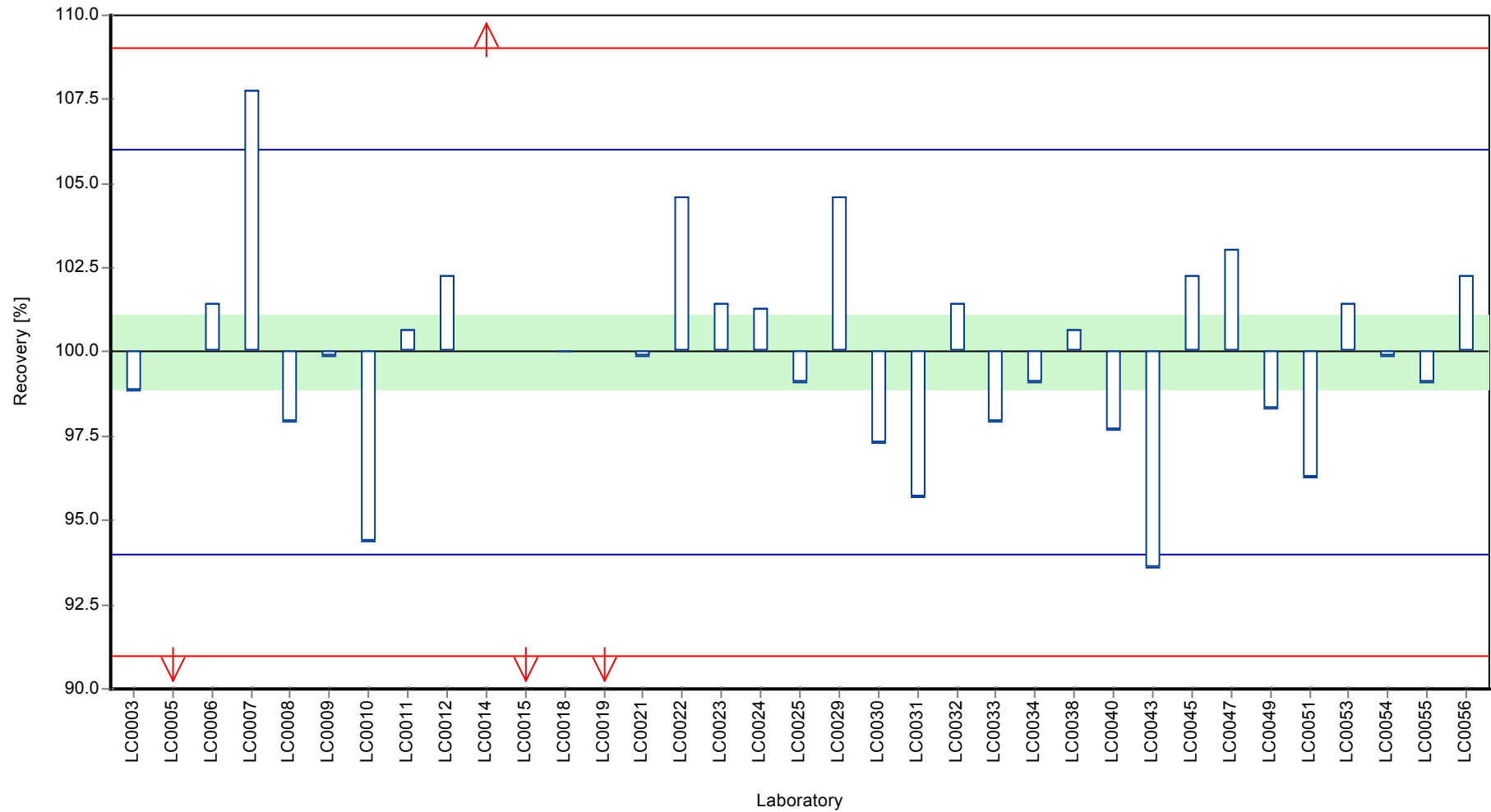
Results



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Sodium

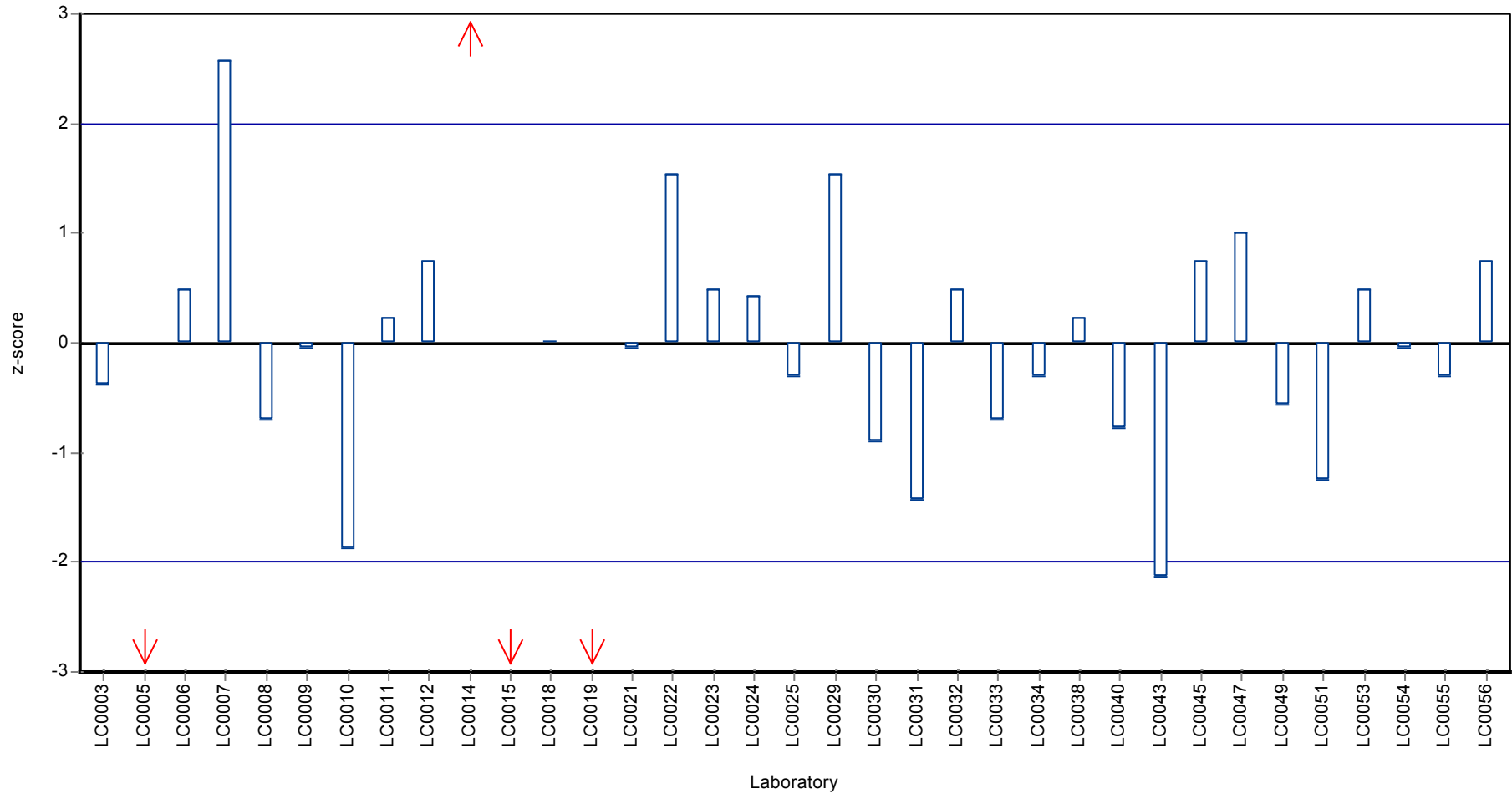
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Sodium

Z-score





## Parameter oriented report

### N140 A

#### Total nitrogen

Unit	mg/l
Mean ± CI (99%)	11.3 ± 0.423
Minimum - Maximum	10.2 - 12.8
Control test value ± U	11 ± 0.92

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	11.8	1.4	104	0.7	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	10.82	1.1	95.3	-0.82	
LC0005	-	-	-	-	
LC0006	11.7	1	103	0.54	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	12.8	0.07	113	2.25	
LC0010	0.00001	-	0	-17.6	H
LC0011	11.4	-	100	0.08	
LC0012	10.8	0.5	95.2	-0.85	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	0.37	0.074	3.3	-17	H
LC0016	11.3874	-	100	0.06	
LC0017	-	-	-	-	
LC0018	13.7	2.16	121	3.64	H
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	11.7	-	103	0.54	
LC0023	11.6	1	102	0.39	
LC0024	11.17	1.1	98.4	-0.28	
LC0025	-	-	-	-	
LC0026	-	-	-	-	
LC0027	11.1	0.07	97.8	-0.38	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	11.17	0.2	98.4	-0.28	
LC0031	11.7	1.05	103	0.54	
LC0032	10.22	2.04	90.1	-1.75	
LC0033	12.14	0.076	107	1.22	
LC0034	-	-	-	-	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

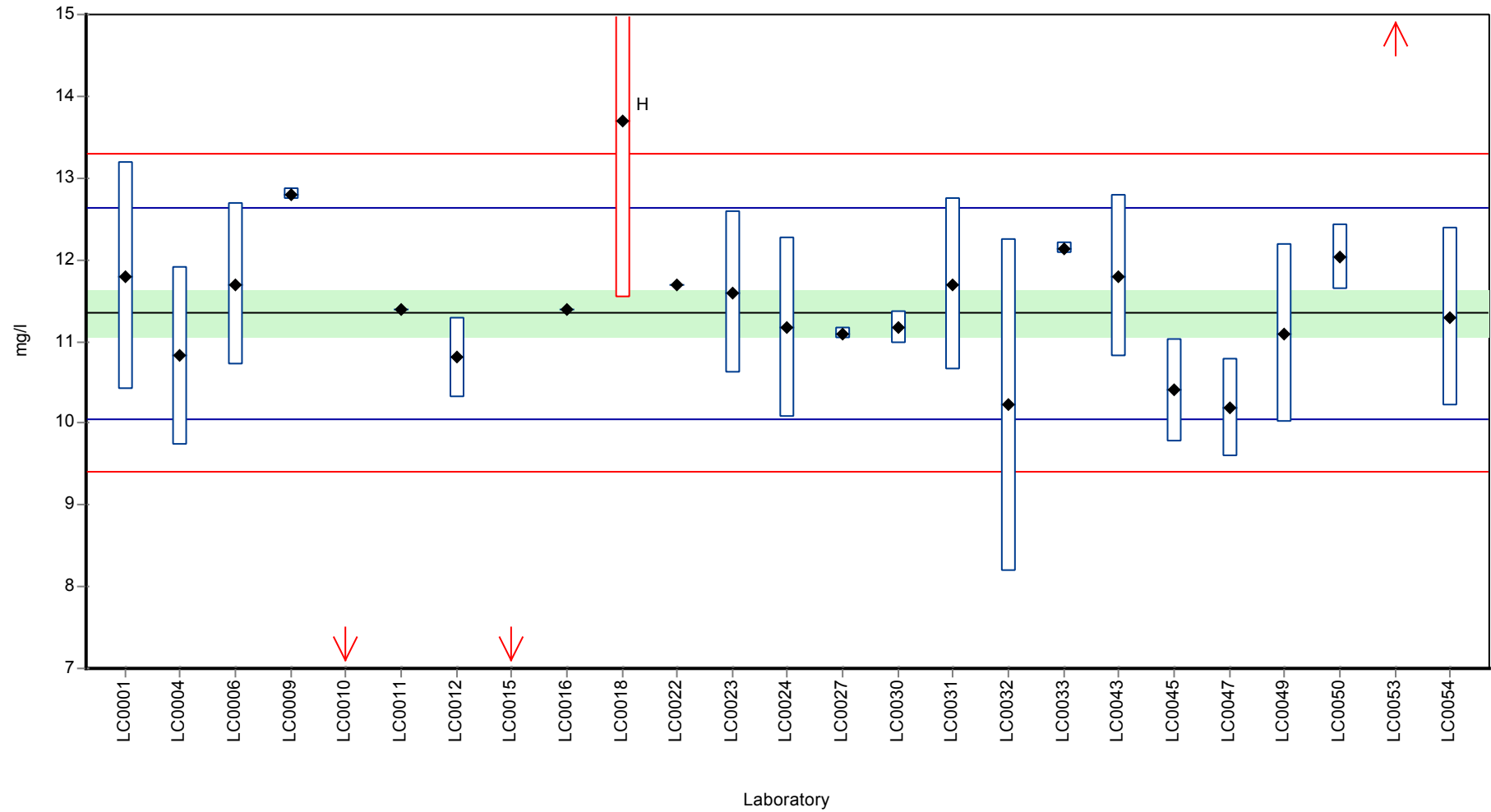
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	11.8	1	104	0.7	
LC0044	-	-	-	-	
LC0045	10.4	0.624	91.6	-1.47	
LC0046	-	-	-	-	
LC0047	10.18	0.6	89.7	-1.81	
LC0048	-	-	-	-	
LC0049	11.1	1.1	97.8	-0.38	
LC0050	12.03	0.4	106	1.05	
LC0051	-	-	-	-	
LC0052	-	-	-	-	
LC0053	52.1	2.88	459	63.1	H
LC0054	11.3	1.1	99.6	-0.07	
LC0055	-	-	-	-	
LC0056	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	12.2 ± 5.35	11.3 ± 0.423	mg/l
Minimum	1E-5	10.2	mg/l
Maximum	52.1	12.8	mg/l
Standard deviation	8.91	0.646	mg/l
rel. Standard deviation	73.2	5.69	%
n	25	21	-

Graphical presentation of results

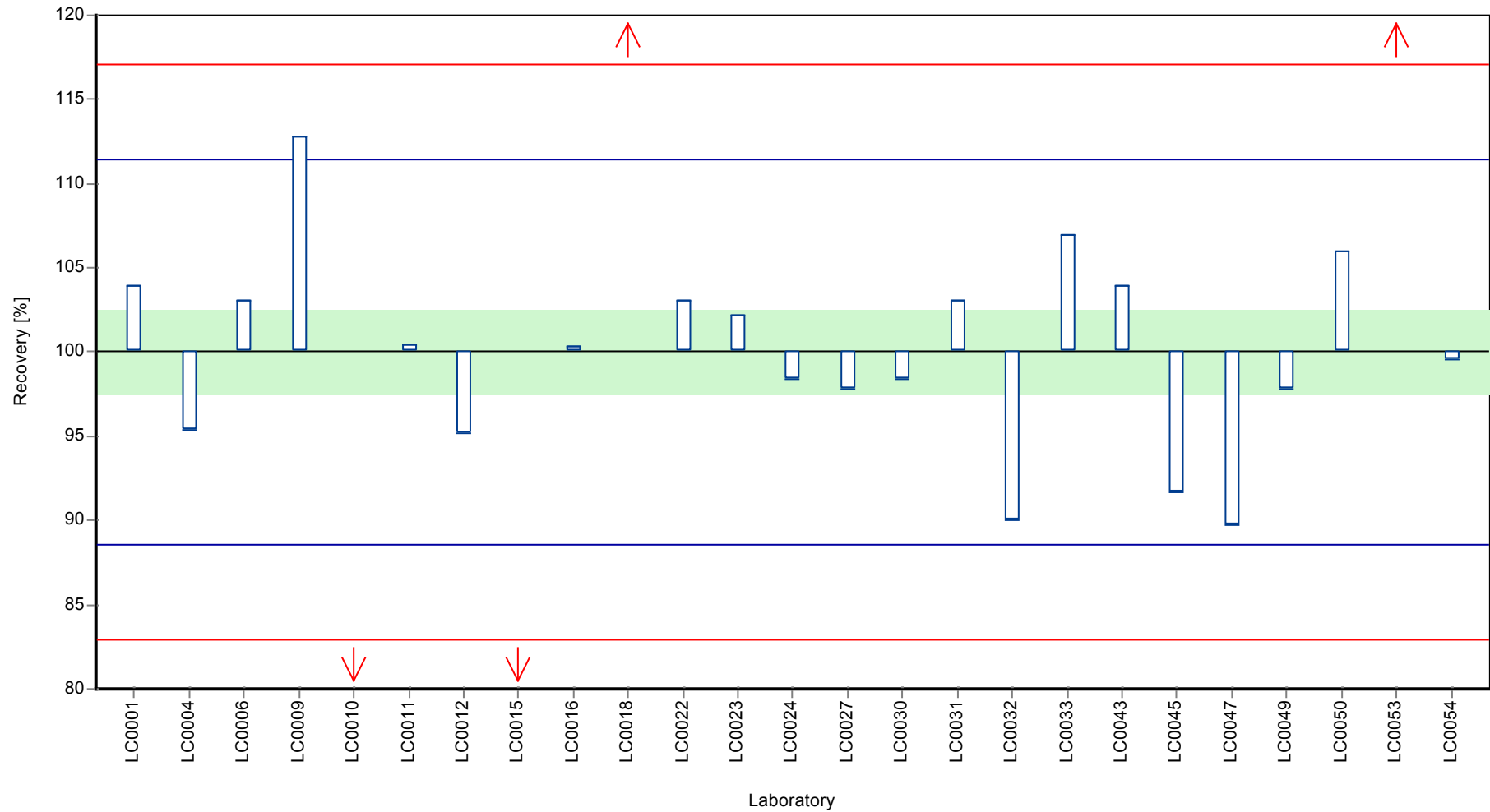
Results



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Total nitrogen

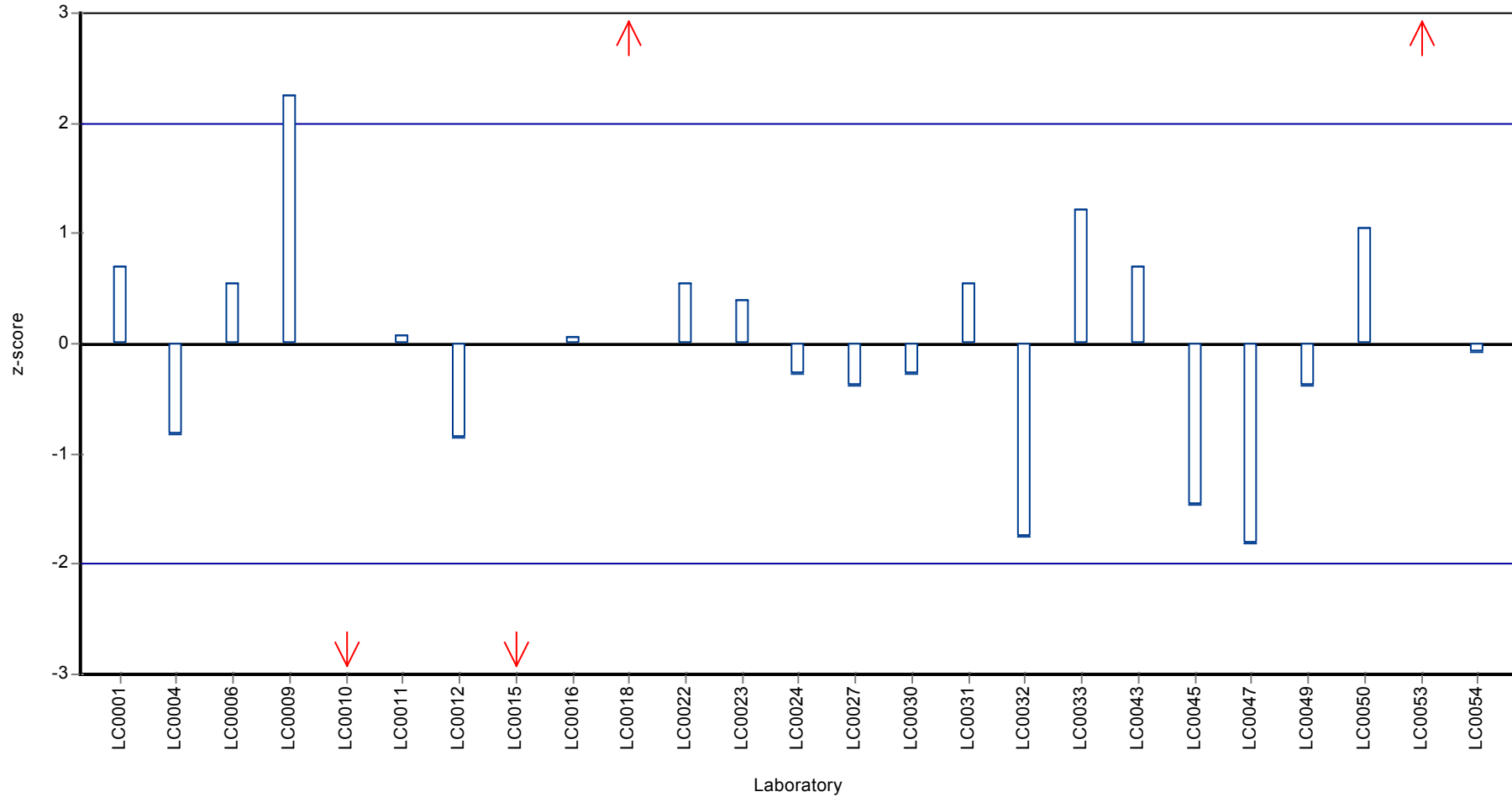
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Total nitrogen

Z-score



## Parameter oriented report

### N140 B

#### Total nitrogen

Unit	mg/l
Mean ± CI (99%)	2.96 ± 0.16
Minimum - Maximum	2.64 - 3.68
Control test value ± U	2.82 ± 0.361

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	3.3	1.4	111	1.37	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	2.71	0.27	91.4	-1.04	
LC0005	-	-	-	-	
LC0006	2.96	0.3	99.9	-0.02	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	3.18	0.05	107	0.88	
LC0010	0.00001	-	0	-12.1	H
LC0011	2.92	-	98.5	-0.18	
LC0012	2.64	0.13	89.1	-1.32	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	5.2	1.04	175	9.14	H
LC0016	3.0826	-	104	0.49	
LC0017	-	-	-	-	
LC0018	5.2	0.43	175	9.14	H
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	3.68	-	124	2.93	
LC0023	3	0.3	101	0.15	
LC0024	2.834	0.28	95.6	-0.53	
LC0025	-	-	-	-	
LC0026	-	-	-	-	
LC0027	2.9	0.07	97.8	-0.26	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	2.946	0.2	99.4	-0.07	
LC0031	2.8	0.25	94.5	-0.67	
LC0032	2.74	0.55	92.4	-0.92	
LC0033	3.14	0.151	106	0.72	
LC0034	-	-	-	-	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

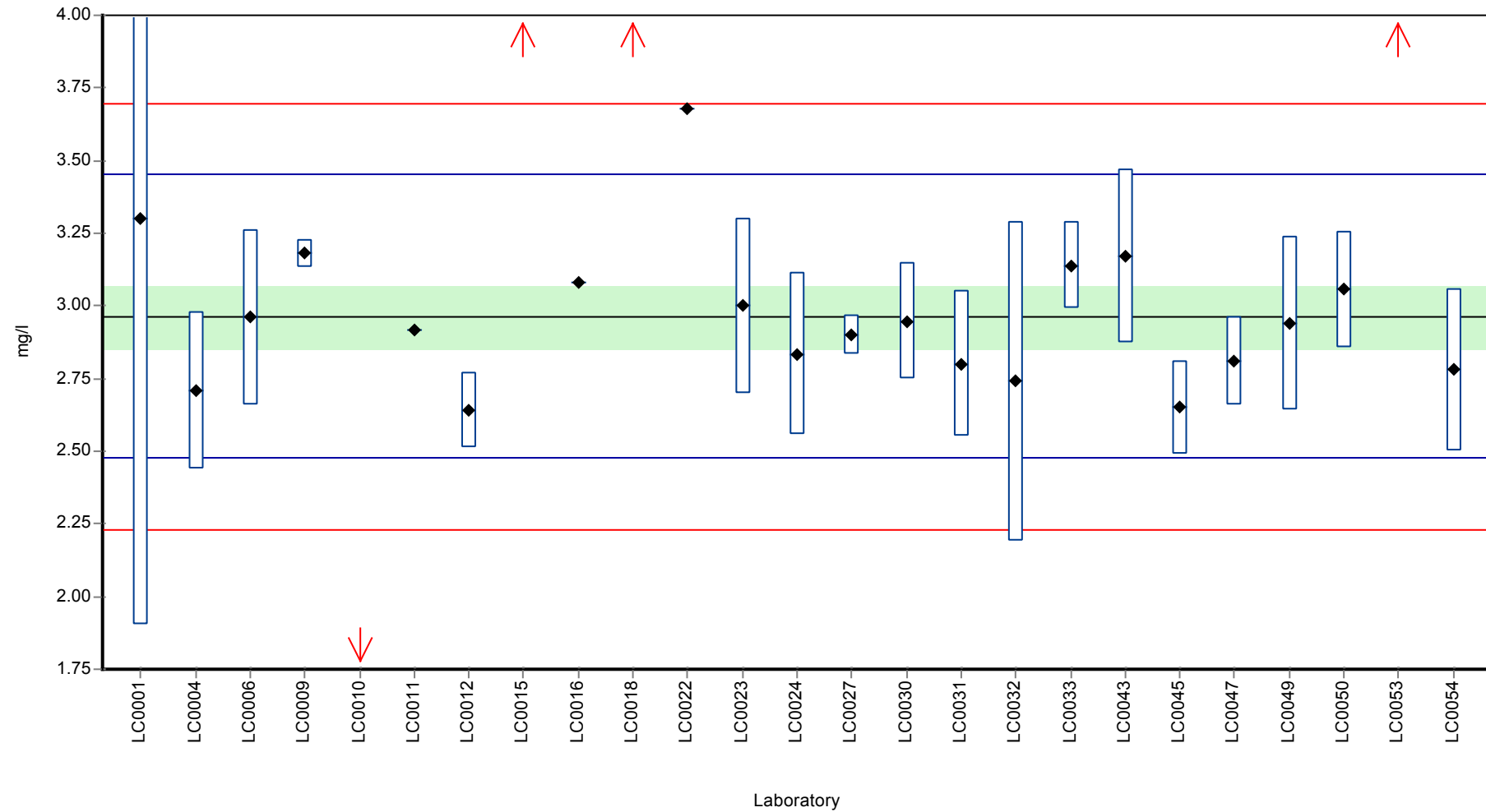
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	3.17	0.3	107	0.84	
LC0044	-	-	-	-	
LC0045	2.65	0.16	89.4	-1.28	
LC0046	-	-	-	-	
LC0047	2.81	0.15	94.8	-0.63	
LC0048	-	-	-	-	
LC0049	2.94	0.3	99.2	-0.1	
LC0050	3.057	0.2	103	0.38	
LC0051	-	-	-	-	
LC0052	-	-	-	-	
LC0053	14.6	0.81	493	47.6	H
LC0054	2.78	0.28	93.8	-0.75	
LC0055	-	-	-	-	
LC0056	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	3.49 ± 1.49	2.96 ± 0.16	mg/l
Minimum	1E-5	2.64	mg/l
Maximum	14.6	3.68	mg/l
Standard deviation	2.49	0.245	mg/l
rel. Standard deviation	71.3	8.25	%
n	25	21	-

Graphical presentation of results

Results

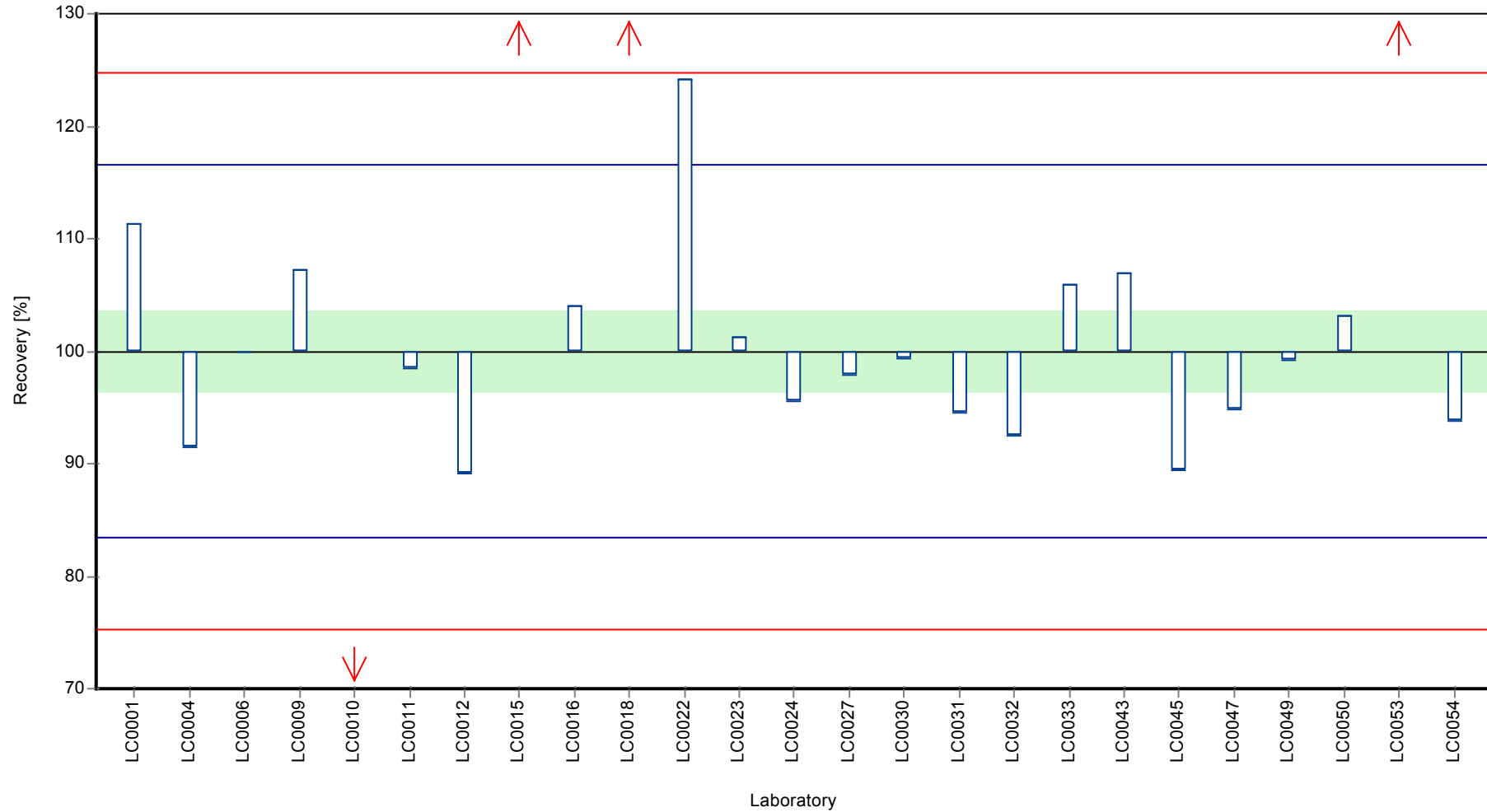




Parameter oriented report Major ions N140

Sample: N140B, Parameter: Total nitrogen

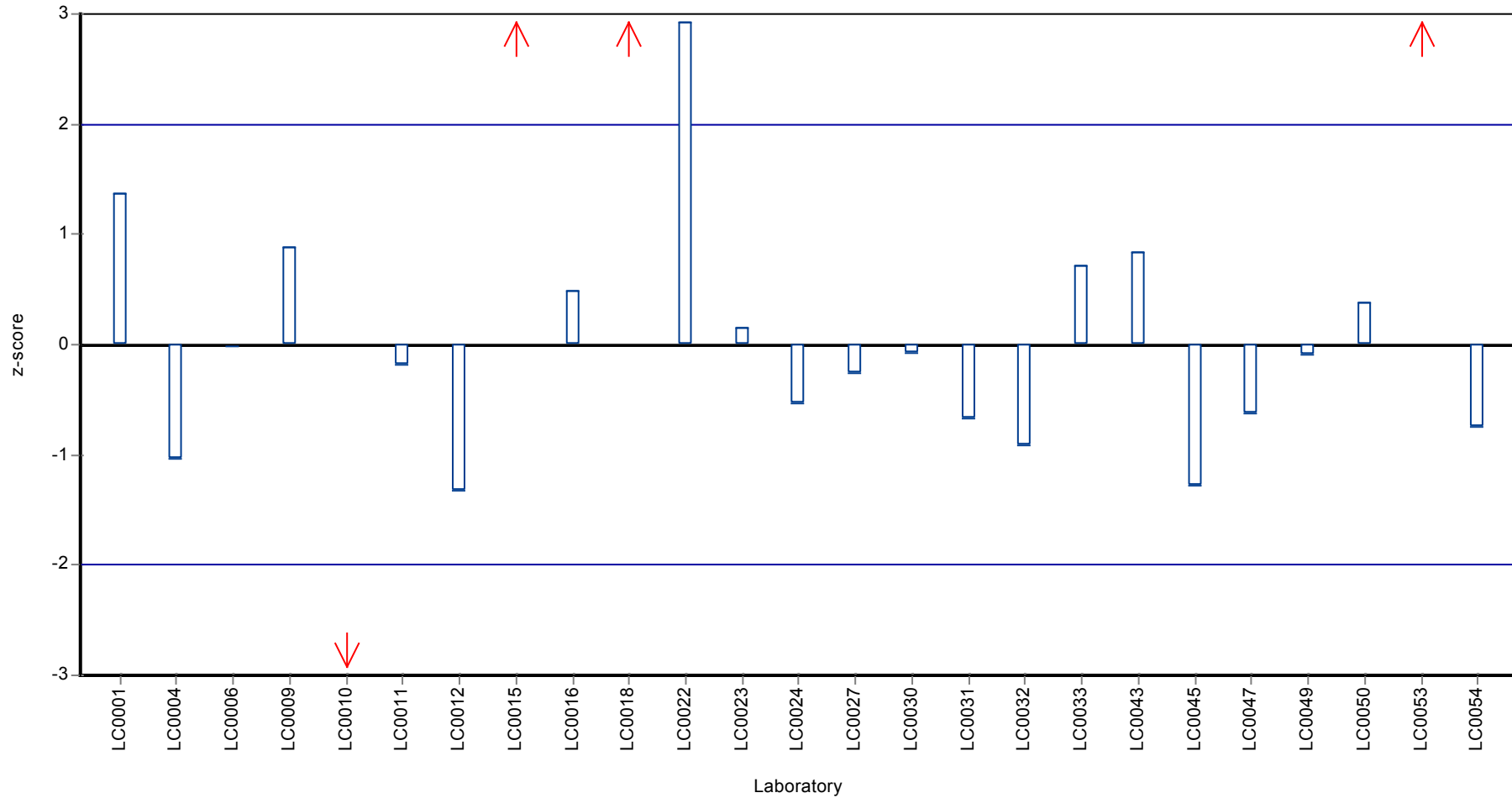
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Total nitrogen

Z-score



## Parameter oriented report

### N140 A

#### Ammonium (as NH<sub>4</sub>)

Unit	mg/l
Mean ± CI (99%)	0.0179 ± 0.0205 (informative value only, for details see section 4)
Minimum - Maximum	1E-5 - 0.0556
Control test value ± U	-

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 0.06 (LOQ)	-	-	-	
LC0002	-	-	-	-	
LC0003	< 0.025 (LOQ)	-	-	-	
LC0004	< 0.012 (LOQ)	-	-	-	
LC0005	< 0.064 (LOQ)	-	-	-	
LC0006	< 0.013 (LOQ)	-	-	-	
LC0007	< 0.01 (LOQ)	-	-	-	
LC0008	< 0.005 (LOQ)	-	-	-	
LC0009	< 0.01 (LOQ)	-16.9922	-	-	
LC0010	0.00001	-	-	-	
LC0011	0.013	-	-	-	
LC0012	< 0.02 (LOQ)	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	0.27	0.036	-	-	H
LC0016	0.05565	0.0056	-	-	
LC0017	< 0.1 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	0.01	0.006	-	-	
LC0020	< 0.065 (LOQ)	-	-	-	
LC0021	< 0.2 (LOQ)	-	-	-	
LC0022	< 0.005 (LOQ)	-	-	-	
LC0023	< 0.01 (LOQ)	-	-	-	
LC0024	0.021	0.002	-	-	
LC0025	< 0.03 (LOQ)	-	-	-	
LC0026	-	-	-	-	
LC0027	< 0.04 (LOQ)	-	-	-	
LC0028	< 0.02 (LOQ)	-	-	-	
LC0029	< 0.01 (LOQ)	-	-	-	
LC0030	< 0.0064 (LOQ)	-	-	-	
LC0031	<0.00063 (LOD)	-	-	-	
LC0032	0.019	0.004	-	-	
LC0033	0.286	0.023	-	-	H
LC0034	< 0.005 (LOQ)	-	-	-	
LC0035	-	-	-	-	
LC0036	< 0.01 (LOQ)	-	-	-	
LC0037	-	-	-	-	
LC0038	< 0.01 (LOQ)	-	-	-	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	< 0.05 (LOQ)	-	-	-	
LC0044	< 0.005 (LOQ)	-	-	-	
LC0045	< 0.02 (LOQ)	-	-	-	
LC0046	< 0.06 (LOQ)	-	-	-	
LC0047	< 0.013 (LOQ)	-	-	-	
LC0048	-	-	-	-	
LC0049	< 0.03 (LOQ)	-	-	-	
LC0050	0.0069	0.002	-	-	
LC0051	-	-	-	-	
LC0052	-	-	-	-	
LC0053	< 0.01 (LOQ)	-	-	-	
LC0054	< 0.008 (LOQ)	-	-	-	
LC0055	< 0.04 (LOQ)	-	-	-	
LC0056	< 0.02 (LOQ)	-	-	-	

#### Characteristics of parameter

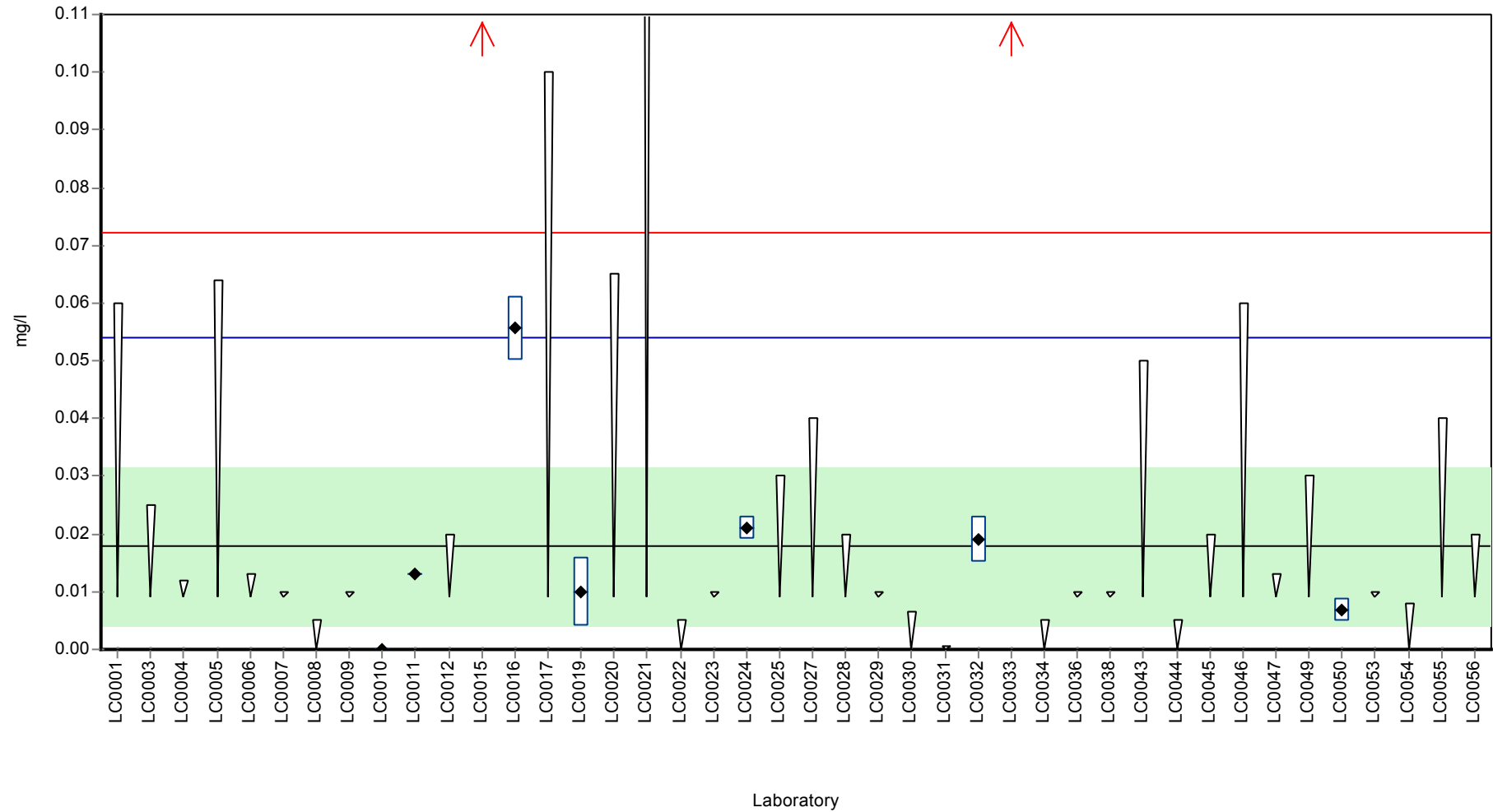
	all results	without outliers	Unit
Mean ± CI (99%)	0.0757 ± 0.116	0.0179 ± 0.0205	mg/l
Minimum	1E-5	1E-5	mg/l
Maximum	0.286	0.0556	mg/l
Standard deviation	0.116	0.0181	mg/l
rel. Standard deviation	153	101	%
n	9	7	-

Parameter oriented report Major ions N140

Sample: N140A, Parameter: Ammonium (as NH<sub>4</sub>)

Graphical presentation of results

Results



## Parameter oriented report

### N140 B

#### Ammonium (as NH<sub>4</sub>)

Unit mg/l  
 Mean ± CI (99%) 0.135 ± 0.0052  
 Minimum - Maximum 0.11 - 0.157  
 Control test value ± U -

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.136	0.01	101	0.1	
LC0002	-	-	-	-	
LC0003	0.13	0.019	96.3	-0.48	
LC0004	0.148	0.034	110	1.27	
LC0005	0.095	0.006	70.4	-3.9	H
LC0006	0.132	0.02	97.8	-0.29	
LC0007	0.13	-	96.3	-0.48	
LC0008	0.149	0.022	110	1.37	
LC0009	0.1411	0.0024	105	0.6	
LC0010	0.132	-	97.8	-0.29	
LC0011	0.121	-	89.7	-1.36	
LC0012	0.11	0.011	81.5	-2.43	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	0.3	0.04	222	16.1	H
LC0016	0.061	0.006	45.2	-7.21	H
LC0017	0.19	-	141	5.37	H
LC0018	0.076	0.024	56.3	-5.75	H
LC0019	0.093	0.006	68.9	-4.09	H
LC0020	0.112	0.02	83	-2.24	
LC0021	< 0.2 (LOQ)	-	-	-	
LC0022	0.123	-	91.1	-1.17	
LC0023	0.14	0.014	104	0.49	
LC0024	0.134	0.013	99.3	-0.09	
LC0025	0.13	0.013	96.3	-0.48	
LC0026	-	-	-	-	
LC0027	0.131	0.005	97.1	-0.39	
LC0028	0.13	0.02	96.3	-0.48	
LC0029	0.134	0.0013	99.3	-0.09	
LC0030	0.1352	0.0026	100	0.02	
LC0031	0.132	0.0132	97.8	-0.29	
LC0032	0.156	0.033	116	2.05	
LC0033	0.177	0.017	131	4.1	H
LC0034	0.136	0.022	101	0.1	
LC0035	-	-	-	-	
LC0036	0.125	0.002	92.6	-0.97	
LC0037	-	-	-	-	
LC0038	0.142	0.014	105	0.69	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

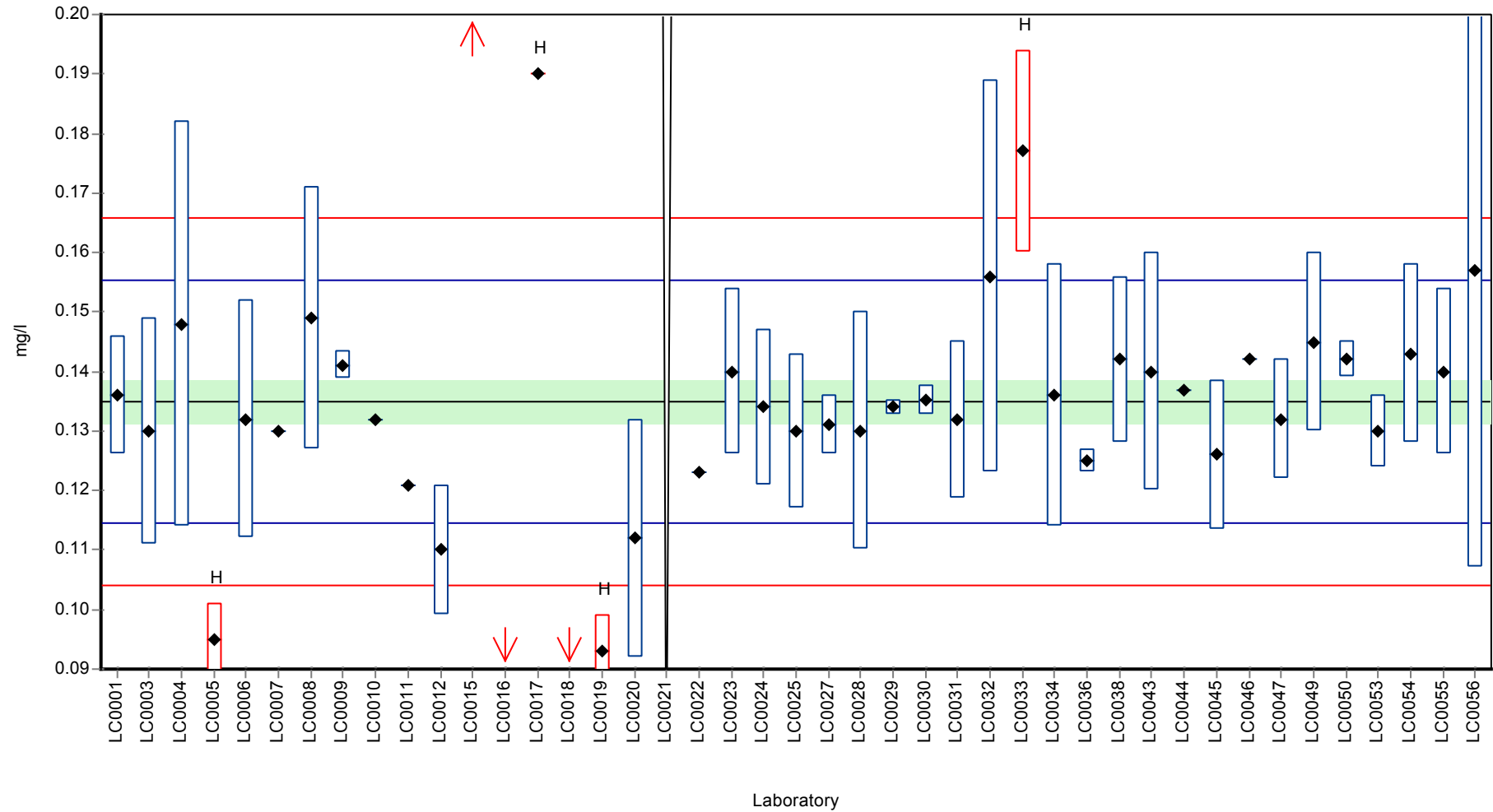
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	0.14	0.02	104	0.49	
LC0044	0.137	-	102	0.2	
LC0045	0.126	0.0126	93.4	-0.87	
LC0046	0.142	-	105	0.69	
LC0047	0.132	0.01	97.8	-0.29	
LC0048	-	-	-	-	
LC0049	0.145	0.015	107	0.98	
LC0050	0.1421	0.003	105	0.7	
LC0051	-	-	-	-	
LC0052	-	-	-	-	
LC0053	0.13	0.006	96.3	-0.48	
LC0054	0.143	0.015	106	0.79	
LC0055	0.14	0.014	104	0.49	
LC0056	0.157	0.05	116	2.15	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.136 ± 0.0158	0.135 ± 0.0052	mg/l
Minimum	0.061	0.11	mg/l
Maximum	0.3	0.157	mg/l
Standard deviation	0.0342	0.0103	mg/l
rel. Standard deviation	25.1	7.6	%
n	42	35	-

Graphical presentation of results

Results

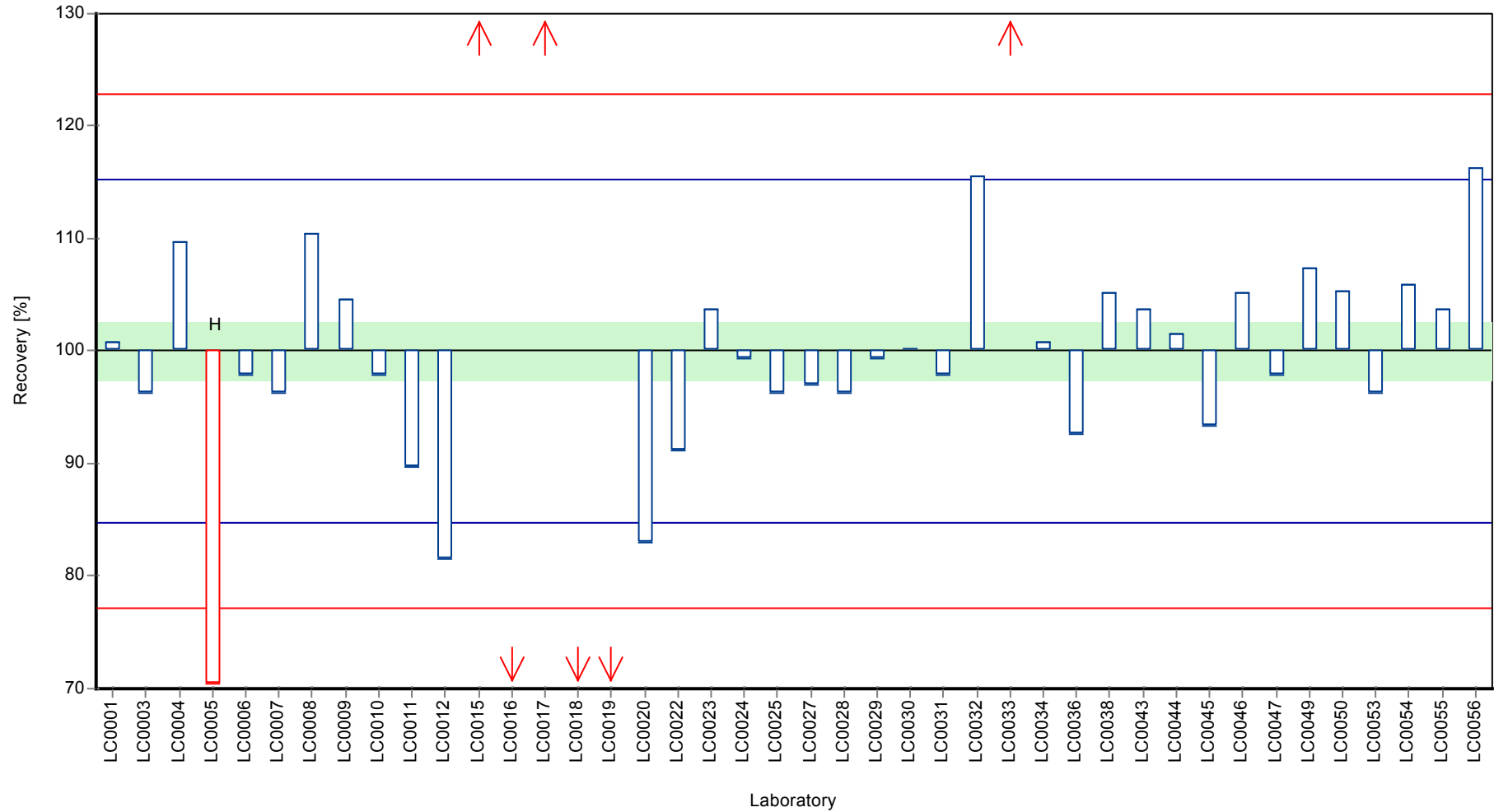




Parameter oriented report Major ions N140

Sample: N140B, Parameter: Ammonium (as NH<sub>4</sub>)

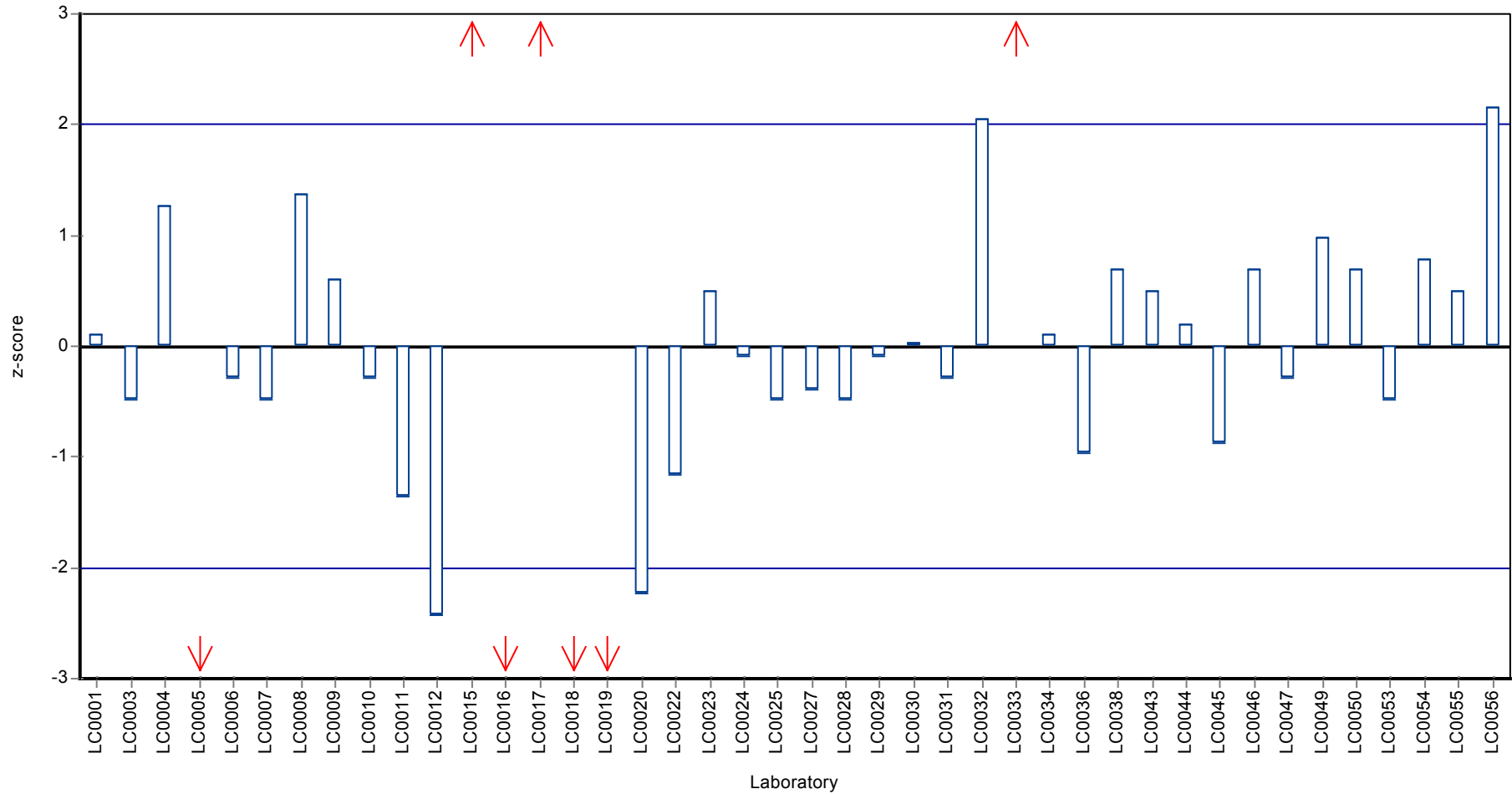
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Ammonium (as NH<sub>4</sub>)

Z-score



## Parameter oriented report

### N140 A

#### Nitrite (as NO<sub>2</sub>)

Unit	mg/l
Mean ± CI (99%)	0.00488 ± 0.000924
Minimum - Maximum	0.0026 - 0.007
Control test value ± U	<0.005 (BG)

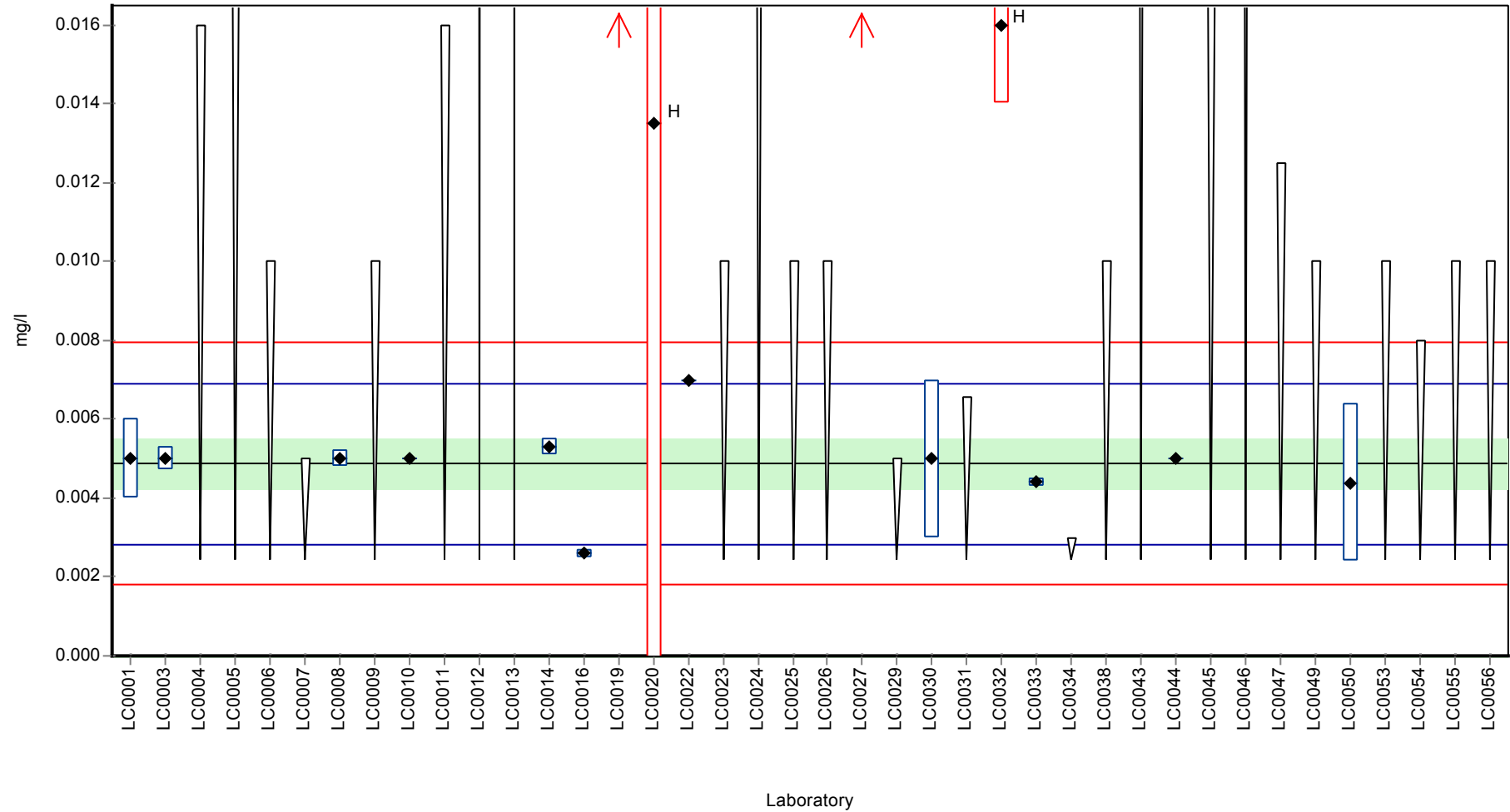
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.005	0.001	102	0.12	
LC0002	-	-	-	-	
LC0003	0.005	0.0003	102	0.12	
LC0004	< 0.016 (LOQ)	-	-	-	
LC0005	< 0.022 (LOQ)	-	-	-	
LC0006	< 0.01 (LOQ)	-	-	-	
LC0007	< 0.005 (LOQ)	-	-	-	
LC0008	0.005	0.0002	102	0.12	
LC0009	< 0.01 (LOQ)	-4.64651	-	-	
LC0010	0.005	-	102	0.12	
LC0011	< 0.016 (LOQ)	-	-	-	
LC0012	< 0.2 (LOQ)	-	-	-	
LC0013	< 0.5 (LOQ)	-	-	-	
LC0014	0.0053	0.0002	109	0.41	
LC0015	-	-	-	-	
LC0016	0.0026	0.0001	53.3	-2.23	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0.09	-	1840	83.3	H
LC0020	0.0135	0.02	277	8.44	H
LC0021	-	-	-	-	
LC0022	0.007	-	143	2.08	
LC0023	< 0.01 (LOQ)	-	-	-	
LC0024	< 0.033 (LOQ)	-	-	-	
LC0025	< 0.01 (LOQ)	-	-	-	
LC0026	< 0.01 (LOQ)	-	-	-	
LC0027	0.048	-	984	42.2	H
LC0028	-	-	-	-	
LC0029	< 0.005 (LOQ)	-	-	-	
LC0030	0.005	0.002	102	0.12	
LC0031	< 0.00657 (LOQ)	-	-	-	
LC0032	0.016	0.002	328	10.9	H
LC0033	0.0044	0.0001	90.2	-0.47	
LC0034	< 0.003 (LOQ)	-	-	-	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	< 0.01 (LOQ)	-	-	-	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	< 0.05 (LOQ)	-	-	-	
LC0044	0.005	-	102	0.12	
LC0045	< 0.02 (LOQ)	-	-	-	
LC0046	< 0.06 (LOQ)	-	-	-	
LC0047	< 0.0125 (LOQ)	-	-	-	
LC0048	-	-	-	-	
LC0049	< 0.01 (LOQ)	-	-	-	
LC0050	0.00438	0.002	89.8	-0.49	
LC0051	-	-	-	-	
LC0052	-	-	-	-	
LC0053	< 0.01 (LOQ)	-	-	-	
LC0054	< 0.008 (LOQ)	-	-	-	
LC0055	< 0.01 (LOQ)	-	-	-	
LC0056	< 0.01 (LOQ)	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.0147 ± 0.0183	0.00488 ± 0.000924	mg/l
Minimum	0.0026	0.0026	mg/l
Maximum	0.09	0.007	mg/l
Standard deviation	0.0237	0.00102	mg/l
rel. Standard deviation	161	20.9	%
n	15	11	-

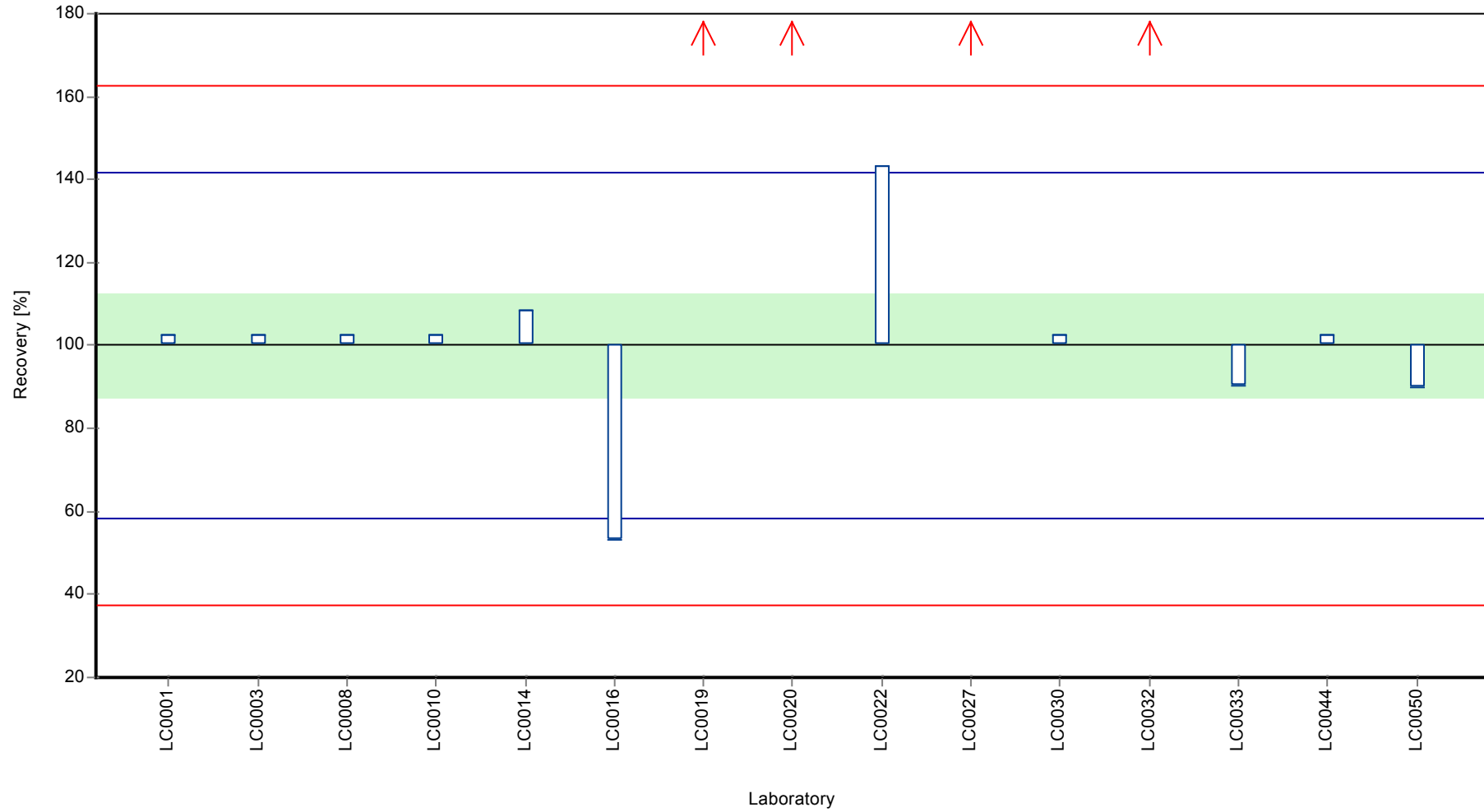
**Graphical presentation of results**  
**Results**



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Nitrite (as NO<sub>2</sub>)

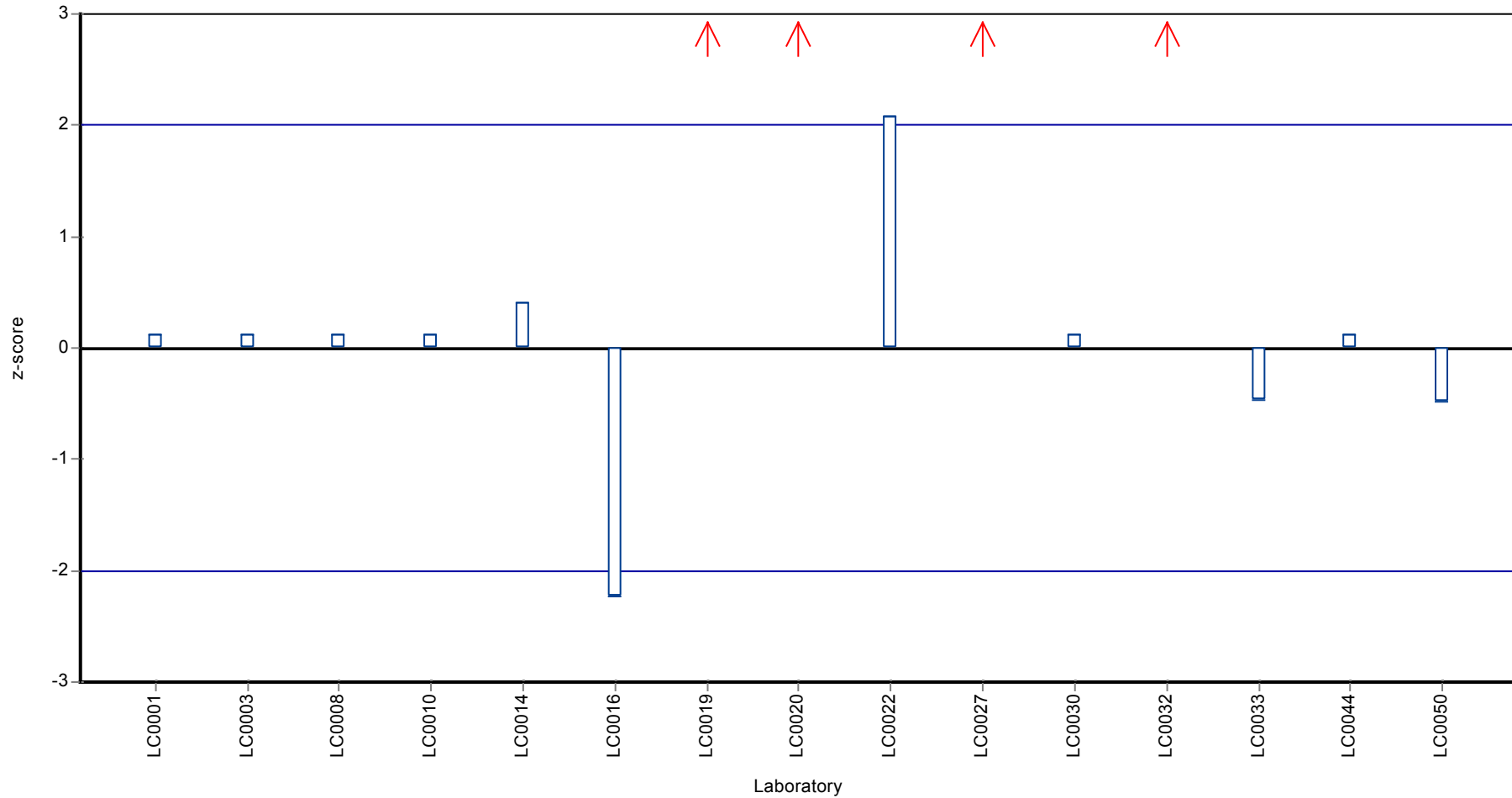
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Nitrite (as NO<sub>2</sub>)

Z-score



## Parameter oriented report

### N140 B

#### Nitrite (as NO<sub>2</sub>)

Unit	mg/l
Mean ± CI (99%)	0.169 ± 0.00418
Minimum - Maximum	0.148 - 0.185
Control test value ± U	0.182 ± 0.0218

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.158	0.01	93.6	-1.3	
LC0002	-	-	-	-	
LC0003	0.173	0.009	103	0.52	
LC0004	0.175	0.049	104	0.76	
LC0005	0.148	0.009	87.7	-2.52	
LC0006	0.172	0.02	102	0.4	
LC0007	0.133	-	78.8	-4.34	H
LC0008	0.172	0.007	102	0.4	
LC0009	0.172	0.0008	102	0.4	
LC0010	0.166	-	98.4	-0.33	
LC0011	0.169	-	100	0.03	
LC0012	< 0.2 (LOQ)	-	-	-	
LC0013	< 0.5 (LOQ)	-	-	-	
LC0014	0.1775	0.0563	105	1.07	
LC0015	0.157	0.022	93.1	-1.42	
LC0016	0.1533	0.008	90.9	-1.87	
LC0017	-	-	-	-	
LC0018	0.17	0.049	101	0.16	
LC0019	0.23	0.01	136	7.44	H
LC0020	0.184	0.02	109	1.86	
LC0021	-	-	-	-	
LC0022	0.168	-	99.6	-0.09	
LC0023	0.18	0.018	107	1.37	
LC0024	0.165	0.017	97.8	-0.45	
LC0025	0.18	0.018	107	1.37	
LC0026	0.168	0.02	99.6	-0.09	
LC0027	0.22	-	130	6.23	H
LC0028	-	-	-	-	
LC0029	0.161	0.002	95.4	-0.94	
LC0030	0.165	0.002	97.8	-0.45	
LC0031	0.016	0.0013	9.5	-18.5	H
LC0032	0.179	0.02	106	1.25	
LC0033	0.185	0.0044	110	1.98	
LC0034	0.173	0.03	103	0.52	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	0.165	0.017	97.8	-0.45	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	



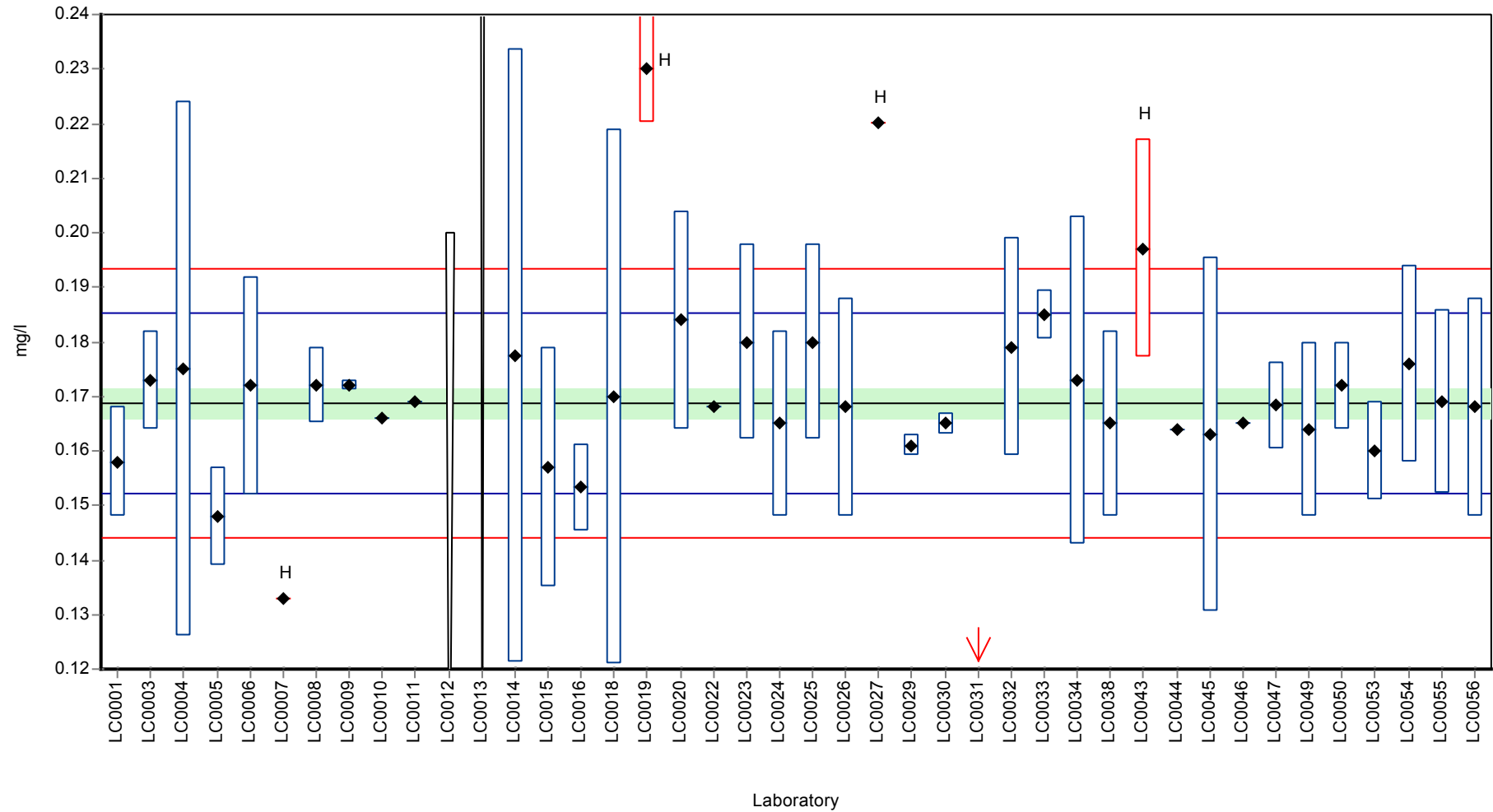
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	0.197	0.02	117	3.43	H
LC0044	0.164	-	97.2	-0.57	
LC0045	0.163	0.0326	96.6	-0.69	
LC0046	0.165	-	97.8	-0.45	
LC0047	0.16839	0.008	99.8	-0.04	
LC0048	-	-	-	-	
LC0049	0.164	0.016	97.2	-0.57	
LC0050	0.1719	0.008	102	0.39	
LC0051	-	-	-	-	
LC0052	-	-	-	-	
LC0053	0.16	0.009	94.8	-1.06	
LC0054	0.176	0.018	104	0.88	
LC0055	0.169	0.0169	100	0.03	
LC0056	0.168	0.02	99.6	-0.09	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.168 ± 0.014	0.169 ± 0.00418	mg/l
Minimum	0.016	0.148	mg/l
Maximum	0.23	0.185	mg/l
Standard deviation	0.0295	0.00823	mg/l
rel. Standard deviation	17.6	4.88	%
n	40	35	-

Graphical presentation of results

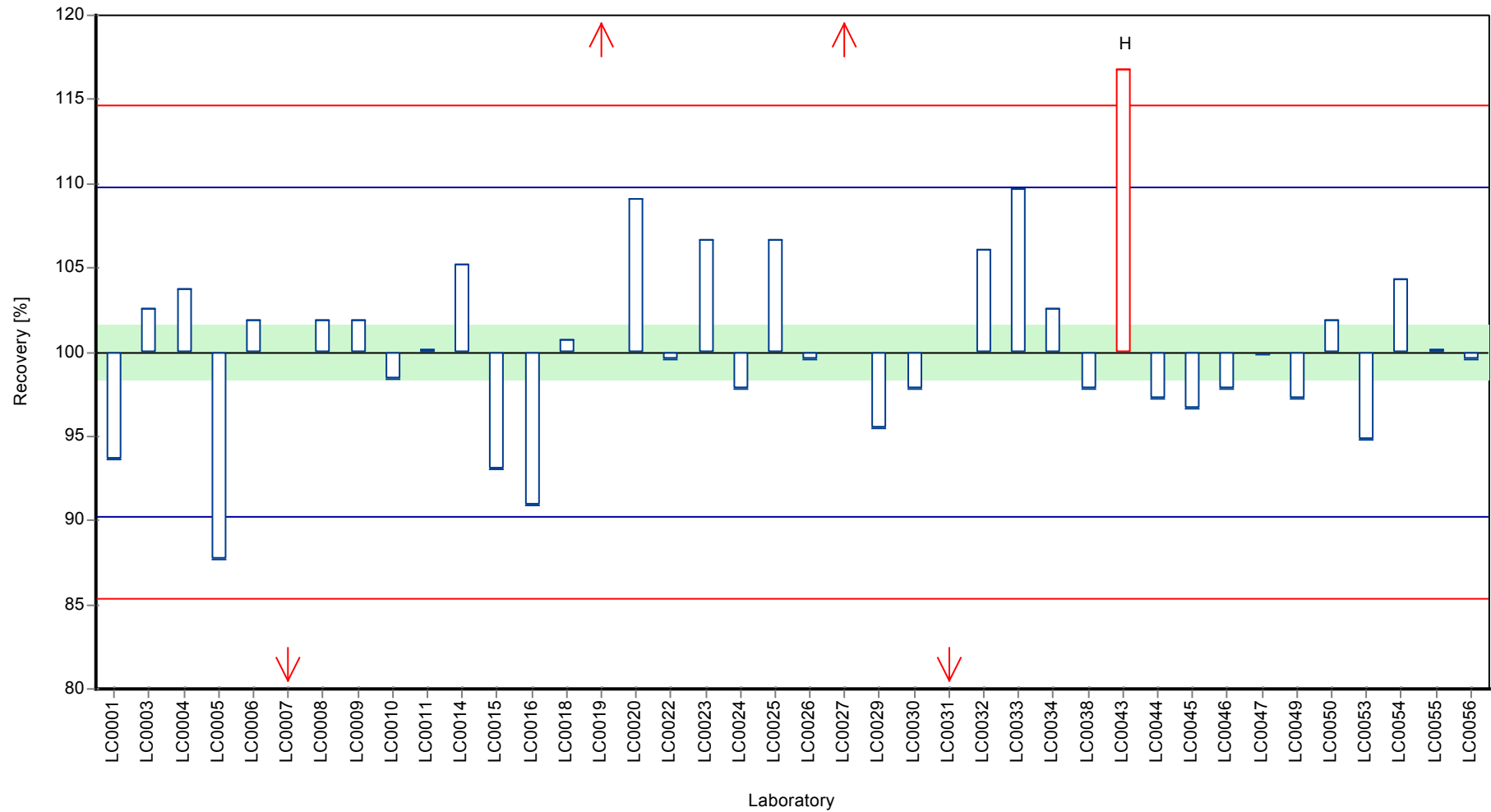
Results



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Nitrite (as NO<sub>2</sub>)

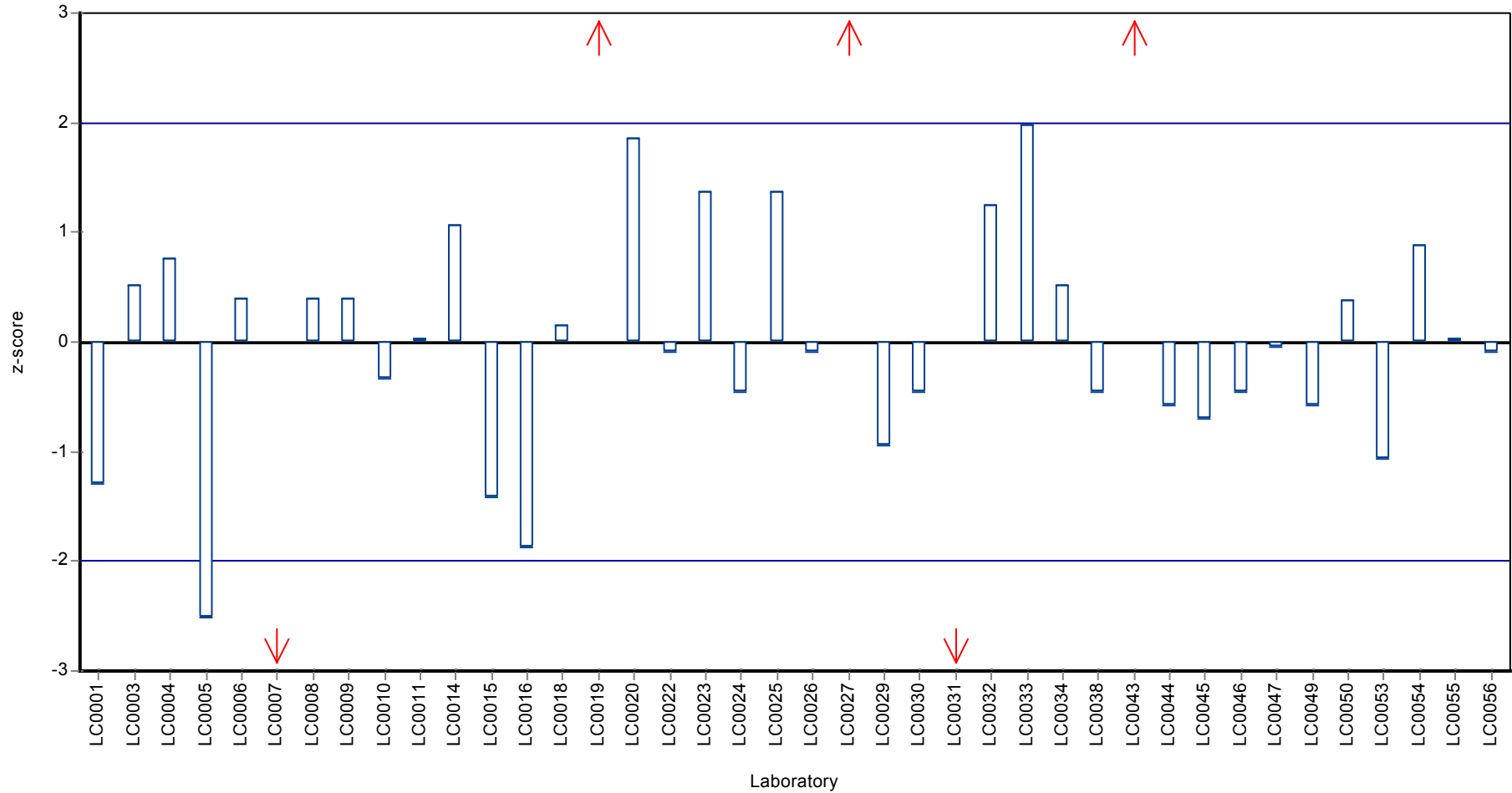
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Nitrite (as NO<sub>2</sub>)

Z-score



## Parameter oriented report

### N140 A

#### Nitrate (as NO<sub>3</sub>)

Unit	mg/l
Mean ± CI (99%)	48.8 ± 0.756
Minimum - Maximum	45.1 - 52.4
Control test value ± U	50.4 ± 2.76

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	50.9	1.2	104	1.27	
LC0002	48.7	0.8	99.8	-0.06	
LC0003	49.139	2.2	101	0.2	
LC0004	49.7	5	102	0.54	
LC0005	45.6	2.65	93.4	-1.94	
LC0006	50.8	4	104	1.21	
LC0007	47	-	96.3	-1.09	
LC0008	49.58	3.97	102	0.47	
LC0009	49	0.74	100	0.12	
LC0010	46	-	94.3	-1.69	
LC0011	49.8	-	102	0.6	
LC0012	47.8	2.4	97.9	-0.61	
LC0013	46.8	-	95.9	-1.21	
LC0014	-	-	-	-	
LC0015	50.557	7.08	104	1.06	
LC0016	50.213	5.02	103	0.85	
LC0017	47	-	96.3	-1.09	
LC0018	53.12	7.81	109	2.61	H
LC0019	47.31	0.7	96.9	-0.9	
LC0020	46	0.1	94.3	-1.69	
LC0021	48.8	4.88	100	0	
LC0022	44.8	-	91.8	-2.42	H
LC0023	48.7	5	99.8	-0.06	
LC0024	49.61	4.9	102	0.49	
LC0025	48.8	1.5	100	0	
LC0026	48.1	5.3	98.6	-0.42	
LC0027	48.9	-	100	0.06	
LC0028	-	-	-	-	
LC0029	49.5	0.473	101	0.42	
LC0030	48.38	0.4	99.1	-0.26	
LC0031	49.775	1.991	102	0.59	
LC0032	48	4.8	98.4	-0.48	
LC0033	48.67	0.015	99.7	-0.08	
LC0034	49.2	6.8	101	0.24	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	52.3	5.2	107	2.12	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

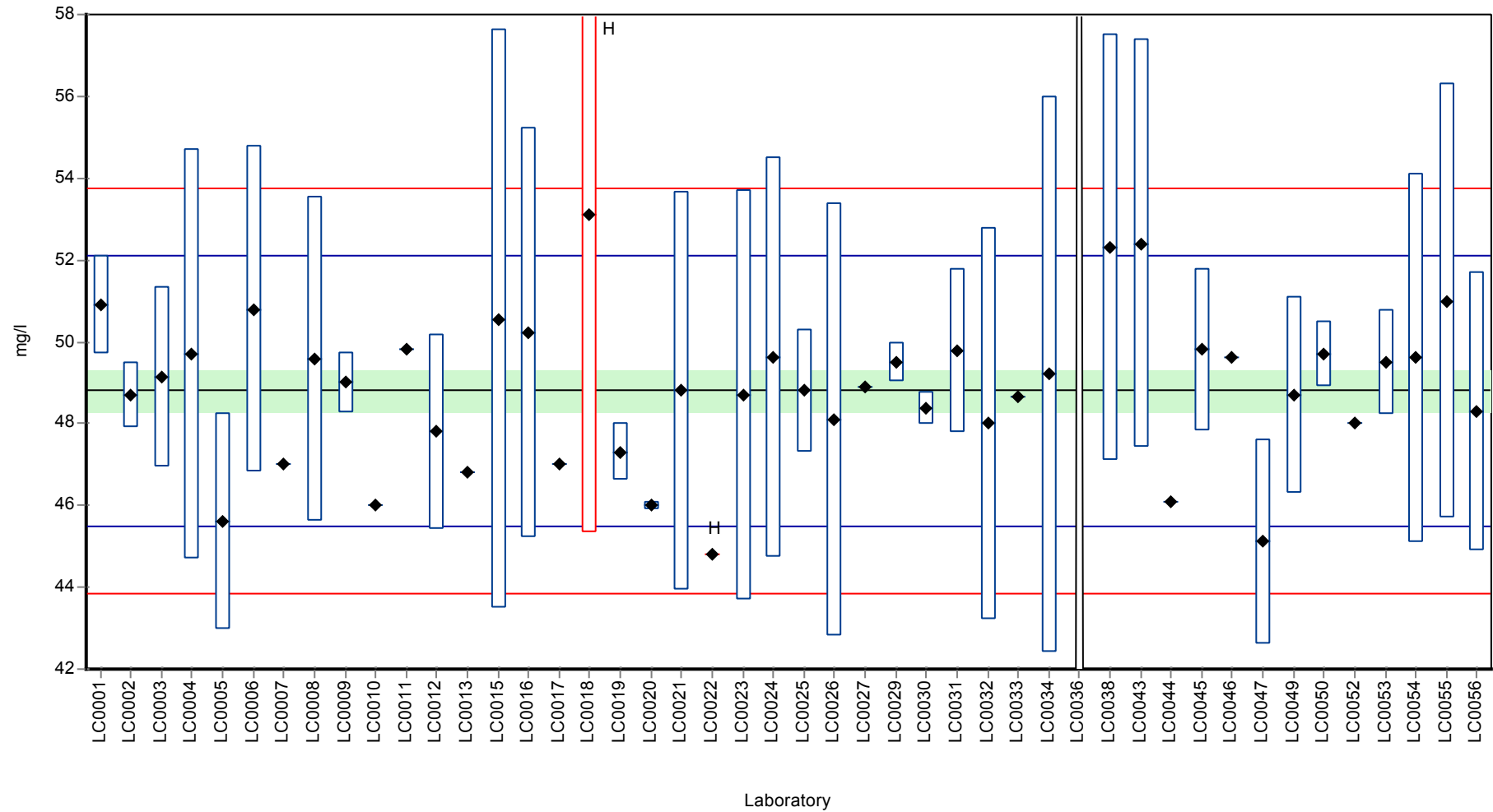
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	52.4	5	107	2.18	
LC0044	46.1	-	94.5	-1.63	
LC0045	49.8	2	102	0.6	
LC0046	49.6	-	102	0.48	
LC0047	45.109	2.5	92.4	-2.23	
LC0048	-	-	-	-	
LC0049	48.7	2.4	99.8	-0.06	
LC0050	49.708	0.8	102	0.55	
LC0051	-	-	-	-	
LC0052	48	-	98.4	-0.48	
LC0053	49.5	1.3	101	0.42	
LC0054	49.6	4.5	102	0.48	
LC0055	51	5.3	105	1.33	
LC0056	48.3	3.4	99	-0.3	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	48.8 ± 0.824	48.8 ± 0.756	mg/l
Minimum	44.8	45.1	mg/l
Maximum	53.1	52.4	mg/l
Standard deviation	1.84	1.65	mg/l
rel. Standard deviation	3.78	3.39	%
n	45	43	-

Graphical presentation of results

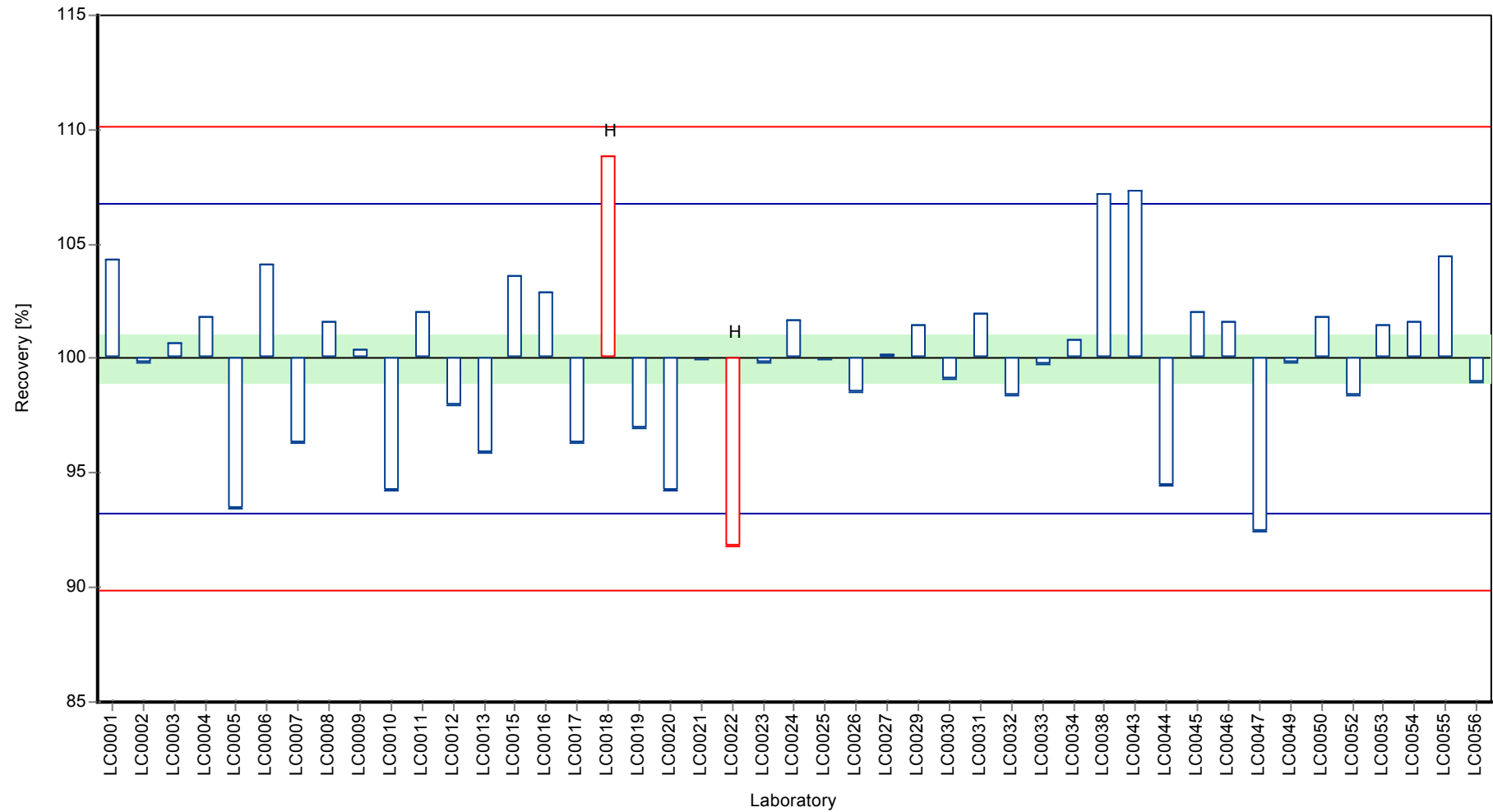
Results



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Nitrate (as NO3)

Recovery rate

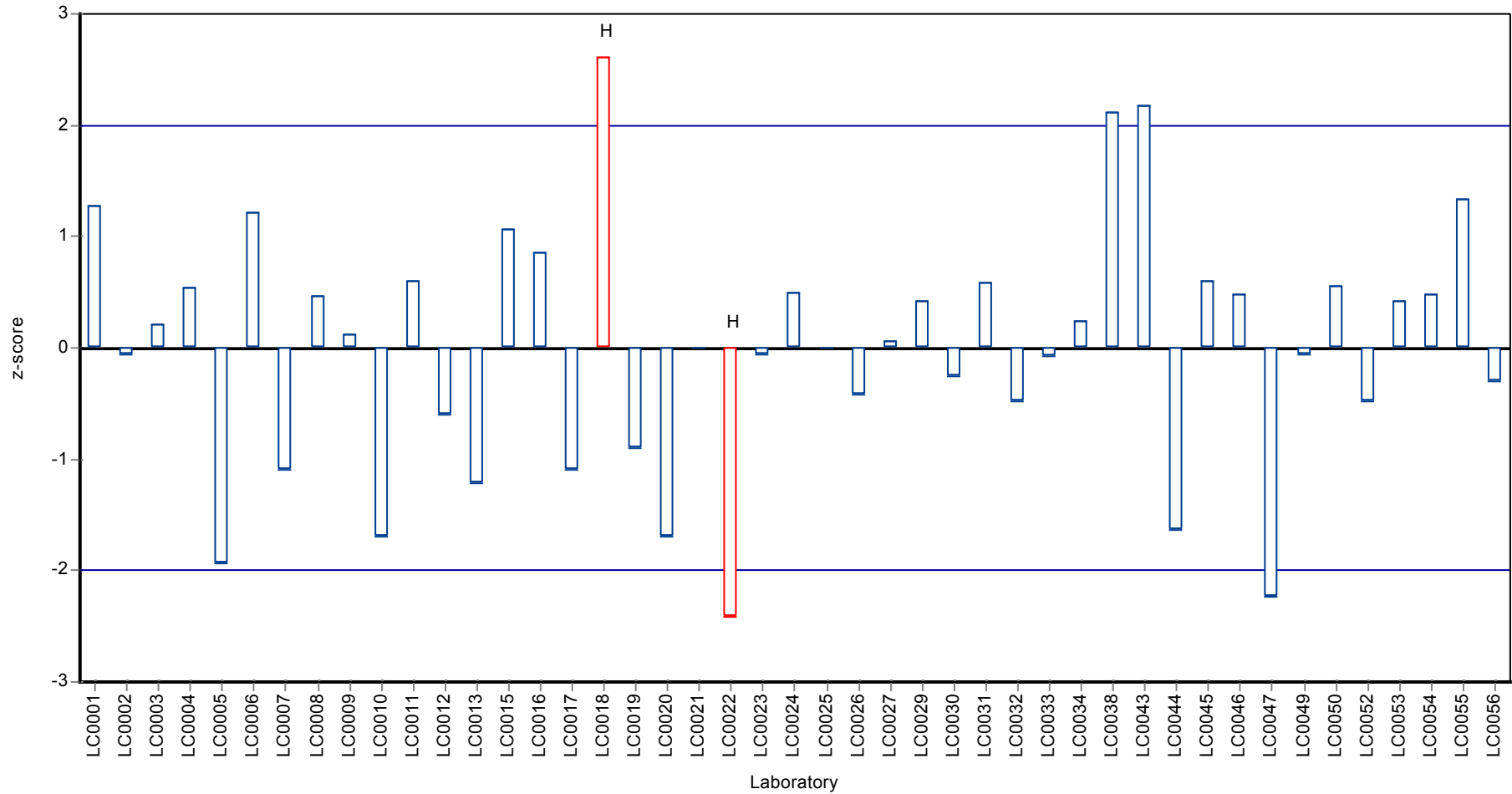




Parameter oriented report Major ions N140

Sample: N140A, Parameter: Nitrate (as NO<sub>3</sub>)

Z-score



## Parameter oriented report

### N140 B

#### Nitrate (as NO<sub>3</sub>)

Unit	mg/l
Mean ± CI (99%)	11.8 ± 0.212
Minimum - Maximum	10.8 - 12.8
Control test value ± U	11.6 ± 0.66

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	12.5	1.1	106	1.59	
LC0002	12.8	0.8	109	2.23	
LC0003	11.673	0.5	99.3	-0.18	
LC0004	12	1.2	102	0.52	
LC0005	11.5	0.78	97.8	-0.55	
LC0006	12.1	0.9	103	0.74	
LC0007	10.8	-	91.9	-2.04	
LC0008	12.02	0.96	102	0.56	
LC0009	11.8	0.16	100	0.09	
LC0010	11	-	93.6	-1.62	
LC0011	11.9	-	101	0.31	
LC0012	11.3	0.56	96.1	-0.97	
LC0013	10	-	85.1	-3.75	H
LC0014	-	-	-	-	
LC0015	12.694	1.8	108	2.01	
LC0016	13.229	1.32	113	3.15	H
LC0017	11	-	93.6	-1.62	
LC0018	12.15	1.786	103	0.84	
LC0019	11.58	0.16	98.5	-0.38	
LC0020	11.1	0.1	94.4	-1.4	
LC0021	12.3	1.23	105	1.16	
LC0022	11.4	-	97	-0.76	
LC0023	11.5	1.2	97.8	-0.55	
LC0024	12.05	1.2	103	0.63	
LC0025	12.1	0.4	103	0.74	
LC0026	11.4	1.3	97	-0.76	
LC0027	11.6	-	98.7	-0.33	
LC0028	-	-	-	-	
LC0029	12	0.12	102	0.52	
LC0030	11.71	0.4	99.6	-0.1	
LC0031	11.917	0.4767	101	0.34	
LC0032	11.5	1.15	97.8	-0.55	
LC0033	11.51	0.122	97.9	-0.53	
LC0034	11.6	1.7	98.7	-0.33	
LC0035	-	-	-	-	
LC0036	11.24	0.72	95.6	-1.1	
LC0037	-	-	-	-	
LC0038	12.2	1.2	104	0.95	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

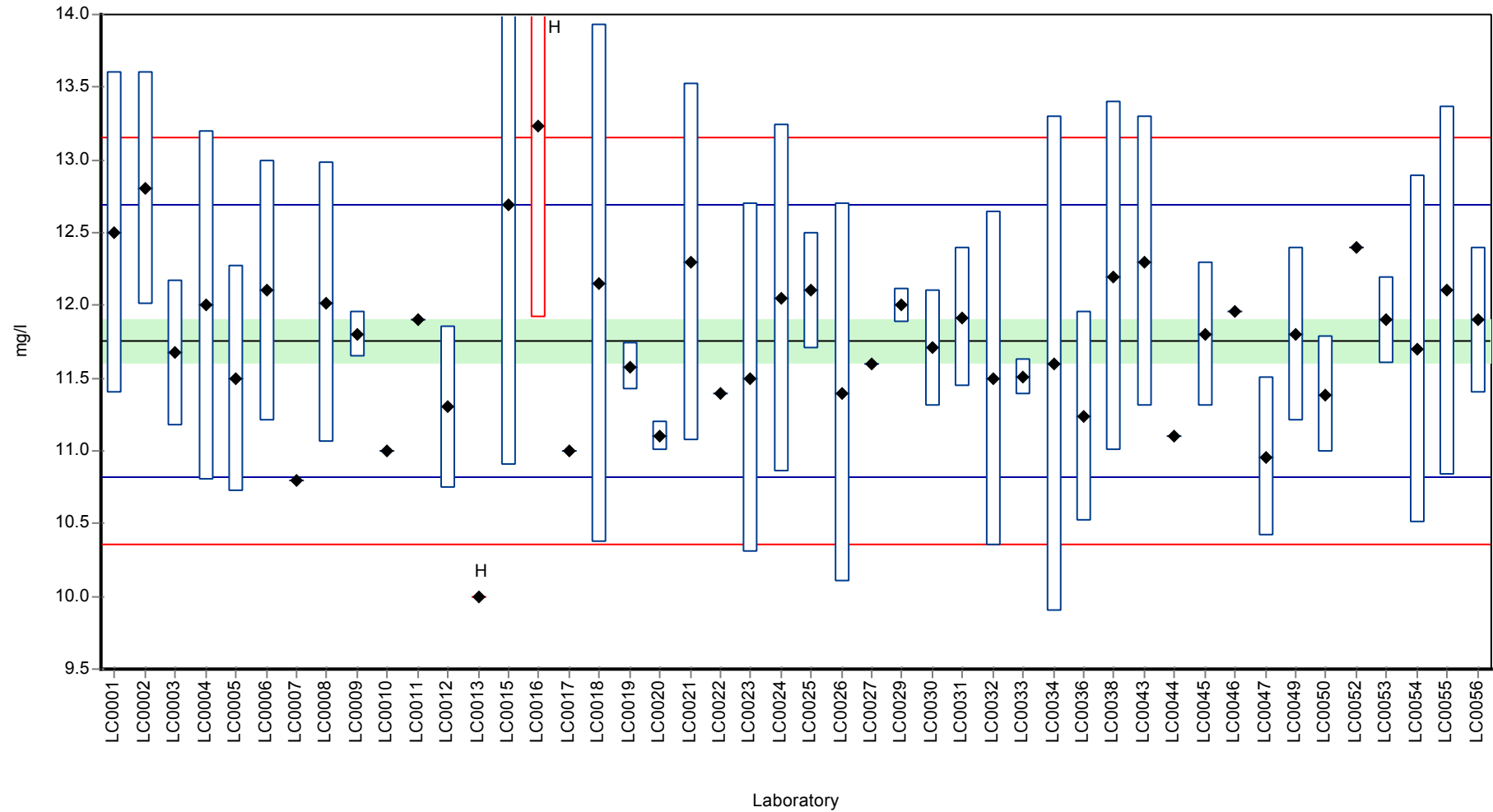
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	12.3	1	105	1.16	
LC0044	11.1	-	94.4	-1.4	
LC0045	11.8	0.5	100	0.09	
LC0046	11.96	-	102	0.44	
LC0047	10.959	0.55	93.2	-1.7	
LC0048	-	-	-	-	
LC0049	11.8	0.6	100	0.09	
LC0050	11.388	0.4	96.9	-0.79	
LC0051	-	-	-	-	
LC0052	12.4	-	105	1.38	
LC0053	11.9	0.3	101	0.31	
LC0054	11.7	1.2	99.5	-0.12	
LC0055	12.1	1.27	103	0.74	
LC0056	11.9	0.5	101	0.31	

**Characteristics of parameter**

	all results	without outliers	Unit
Mean ± CI (99%)	11.7 ± 0.253	11.8 ± 0.212	mg/l
Minimum	10	10.8	mg/l
Maximum	13.2	12.8	mg/l
Standard deviation	0.571	0.468	mg/l
rel. Standard deviation	4.86	3.98	%
n	46	44	-

Graphical presentation of results

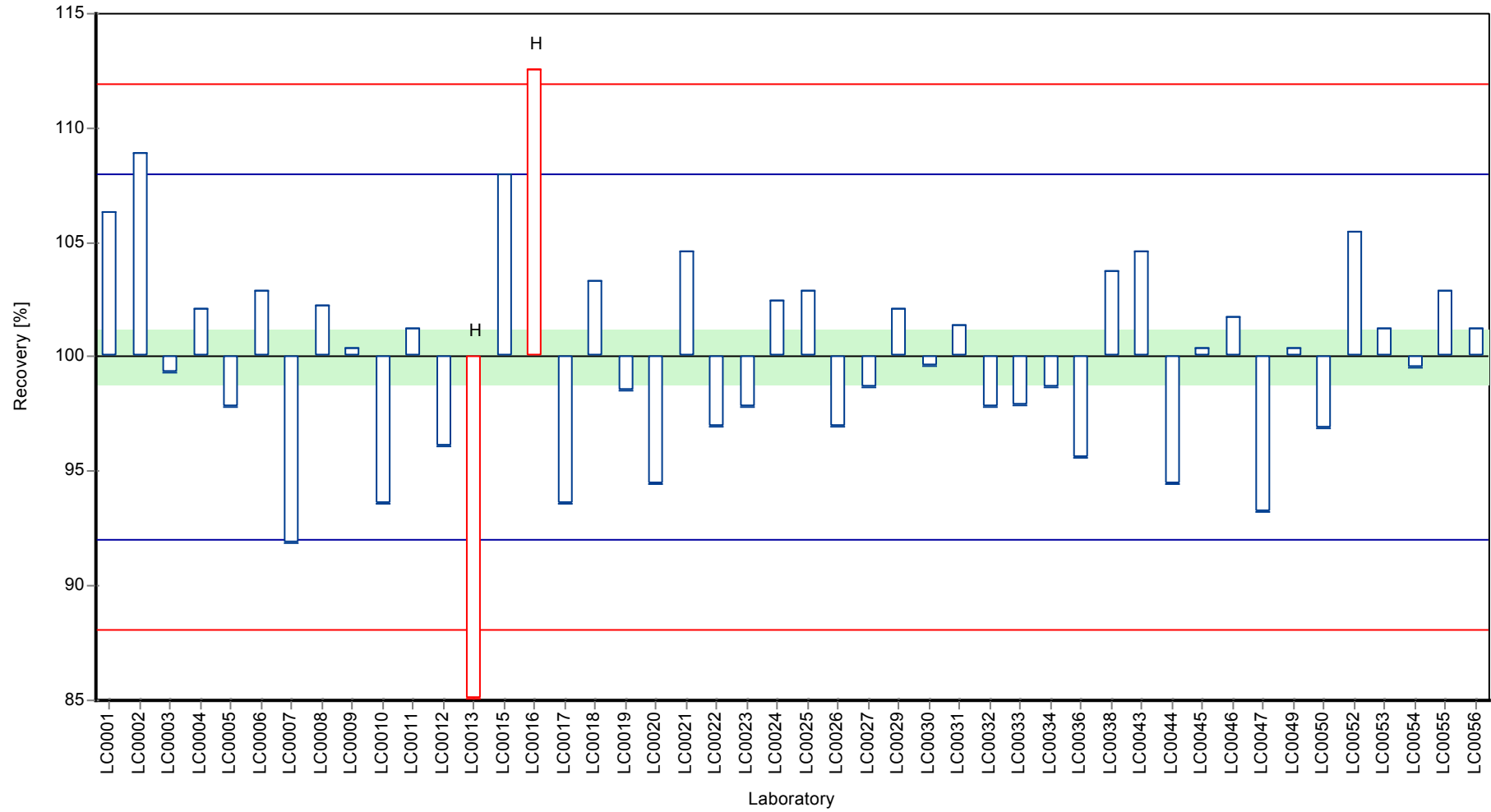
Results



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Nitrate (as NO<sub>3</sub>)

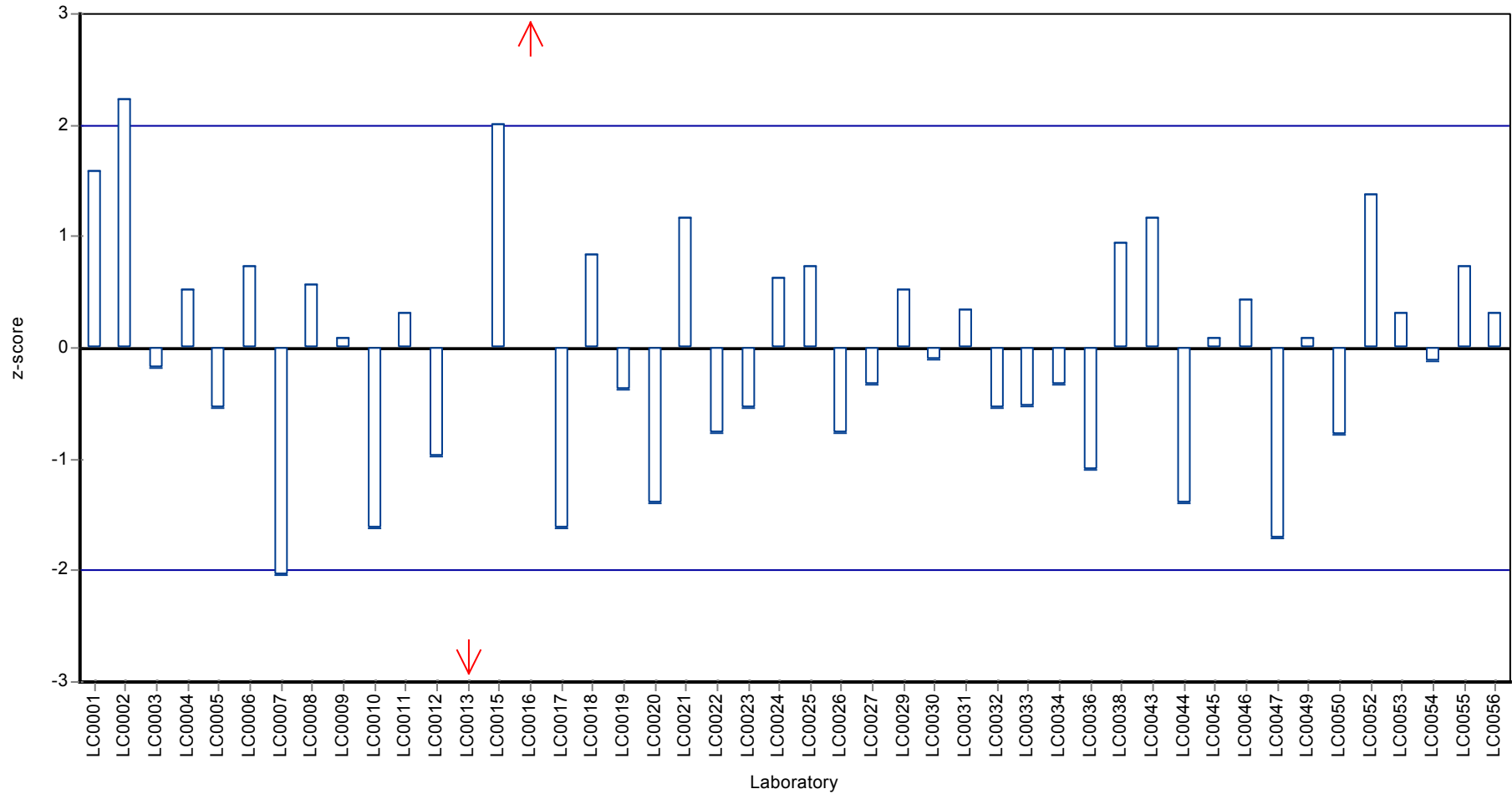
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Nitrate (as NO3)

Z-score



## Parameter oriented report

### N140 A

#### Orthophosphate (as PO4)

Unit	mg/l
Mean ± CI (99%)	0.0285 ± 0.00248
Minimum - Maximum	0.0215 - 0.037
Control test value ± U	0.0258 ± 0.006

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	< 0.03 (LOQ)	-	-	-	
LC0004	0.027	0.005	94.6	-0.37	
LC0005	0.037	0.003	130	2.05	
LC0006	0.026	0.004	91.1	-0.61	
LC0007	< 0.1 (LOQ)	-	-	-	
LC0008	-	-	-	-	
LC0009	0.0283	0.0015	99.2	-0.06	
LC0010	-	-	-	-	
LC0011	0.046	-	161	4.23	H
LC0012	< 1 (LOQ)	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	0.105	0.015	368	18.5	H
LC0016	0.0077	0.0008	27	-5.04	H
LC0017	-	-	-	-	
LC0018	0.022	0.001	77.1	-1.58	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	0.026	-	91.1	-0.61	
LC0023	0.035	0.003	123	1.56	
LC0024	0.028	0.003	98.1	-0.13	
LC0025	0.031	0.003	109	0.6	
LC0026	< 0.03 (LOQ)	-	-	-	
LC0027	< 0.03 (LOQ)	-	-	-	
LC0028	< 0.015 (LOQ)	-	-	-	FN
LC0029	0.0239	0.002	83.7	-1.12	
LC0030	0.026	0.002	91.1	-0.61	
LC0031	0.033	0.0039	116	1.08	
LC0032	0.029	0.003	102	0.11	
LC0033	0.029	0.001	102	0.11	
LC0034	0.028	0.005	98.1	-0.13	
LC0035	-	-	-	-	
LC0036	0.037	0.007	130	2.05	
LC0037	-	-	-	-	
LC0038	0.034	0.003	119	1.32	
LC0039	-	-	-	-	
LC0040	0.08	-	280	12.5	H
LC0041	< 0.2 (LOQ)	-	-	-	

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	0.027	-	94.6	-0.37	
LC0043	< 0.05 (LOQ)	-	-	-	
LC0044	0.028	-	98.1	-0.13	
LC0045	< 0.03 (LOQ)	-	-	-	
LC0046	0.064	-	224	8.58	H
LC0047	0.02376	0.002	83.3	-1.16	
LC0048	-	-	-	-	
LC0049	0.027	0.003	94.6	-0.37	
LC0050	0.0215	0.002	75.3	-1.7	
LC0051	-	-	-	-	
LC0052	-	-	-	-	
LC0053	0.03	0.002	105	0.35	
LC0054	0.027	0.003	94.6	-0.37	
LC0055	< 0.061 (LOQ)	-	-	-	
LC0056	0.029	0.004	102	0.11	

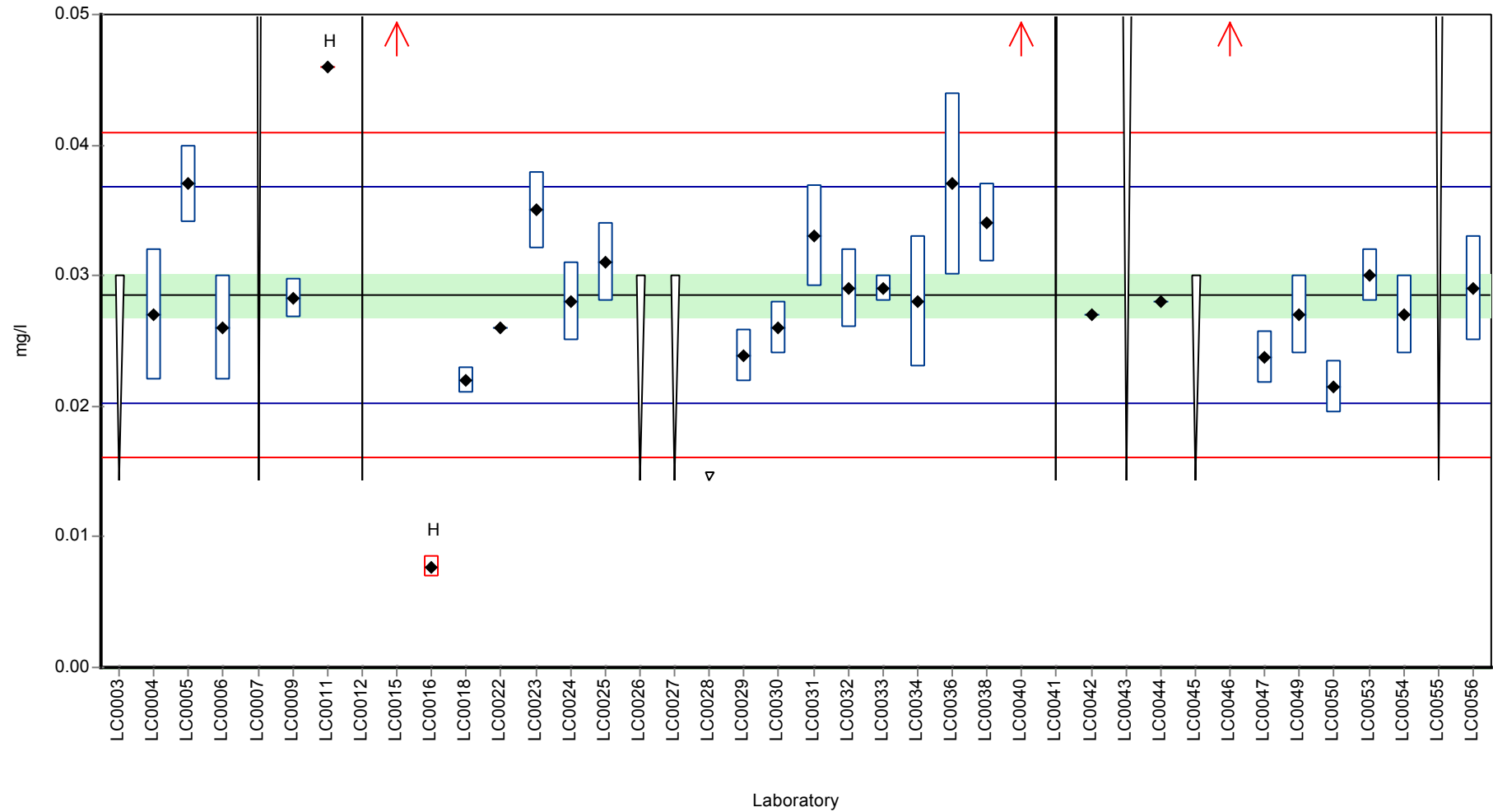
#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.0339 ± 0.0102	0.0285 ± 0.00248	mg/l
Minimum	0.0077	0.0215	mg/l
Maximum	0.105	0.037	mg/l
Standard deviation	0.0186	0.00413	mg/l
rel. Standard deviation	55	14.5 %	
n	30	25	-



Graphical presentation of results

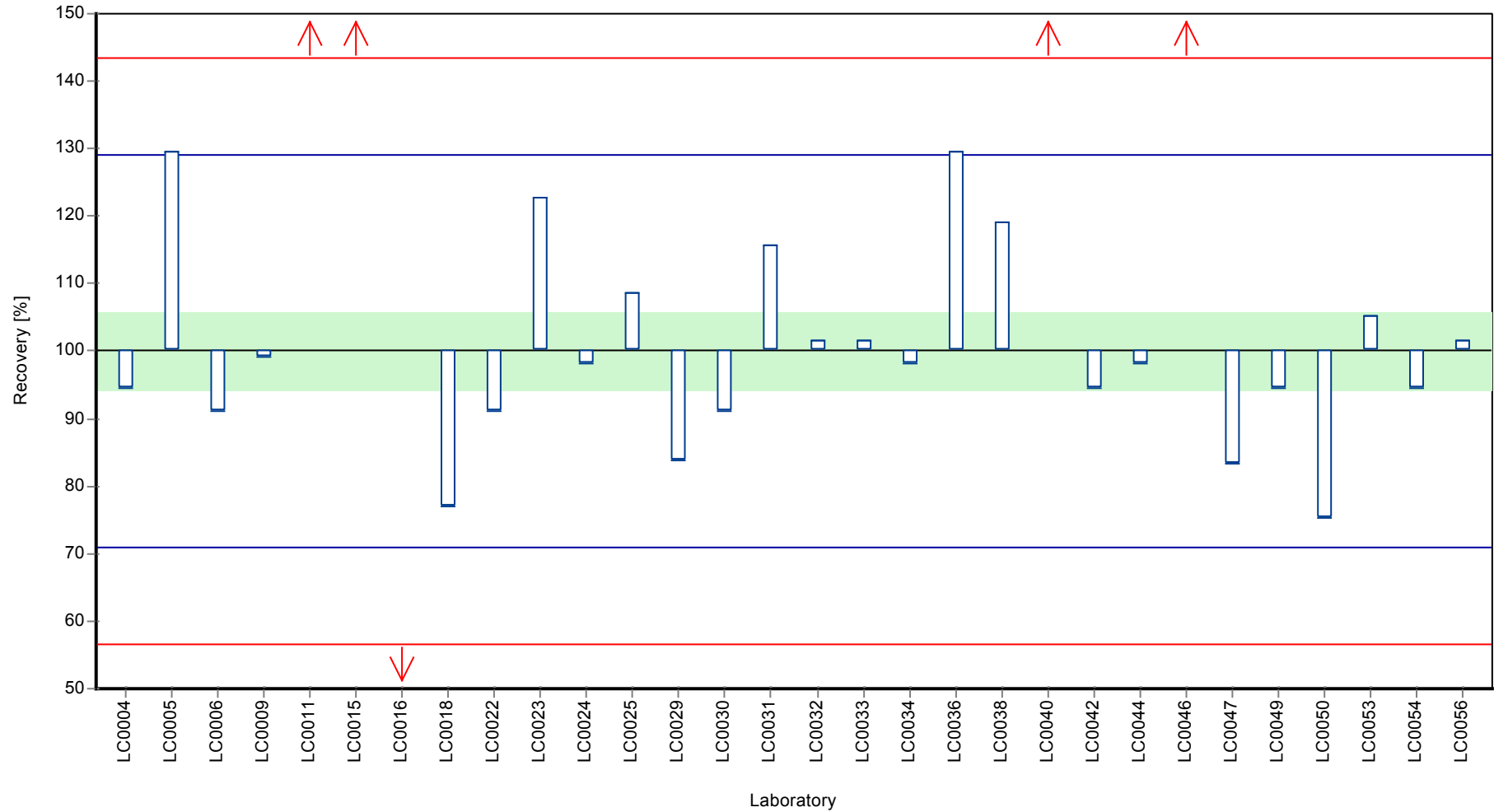
Results



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Orthophosphate (as PO4)

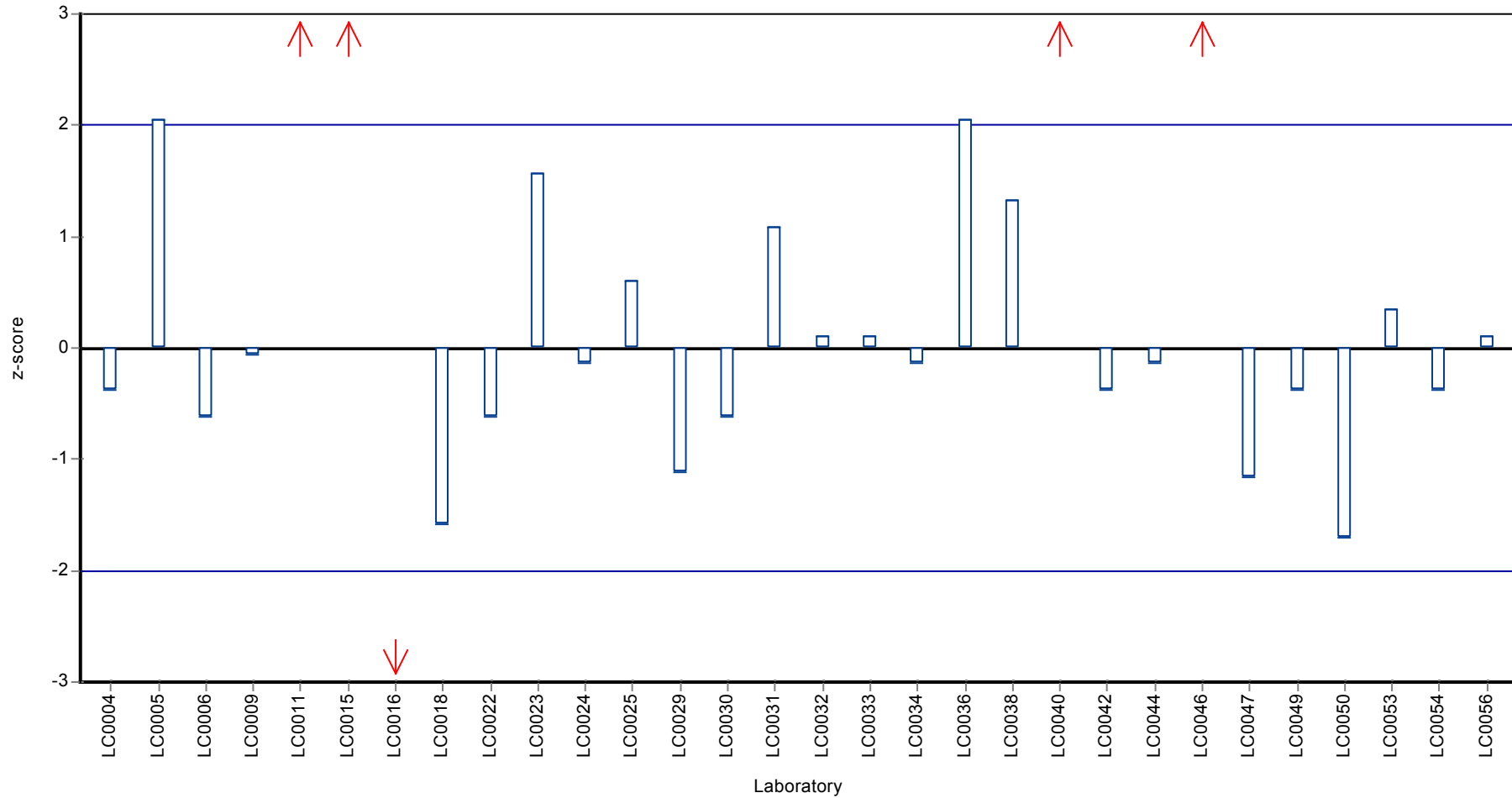
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Orthophosphate (as PO4)

Z-score



## Parameter oriented report

### N140 B

#### Orthophosphate (as PO4)

Unit	mg/l
Mean ± CI (99%)	0.208 ± 0.00465
Minimum - Maximum	0.187 - 0.229
Control test value ± U	0.194 ± 0.0428

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.21	0.01	101	0.23	
LC0004	< 0.015 (LOQ)	-	-	-	FN
LC0005	0.208	0.02	100	-0.01	
LC0006	0.204	0.03	98	-0.49	
LC0007	0.2	-	96.1	-0.97	
LC0008	-	-	-	-	
LC0009	0.2179	0.0017	105	1.18	
LC0010	-	-	-	-	
LC0011	0.221	-	106	1.55	
LC0012	< 1 (LOQ)	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	0.53	0.074	255	38.6	H
LC0016	0.1264	0.013	60.7	-9.79	H
LC0017	-	-	-	-	
LC0018	0.187	0.004	89.9	-2.53	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	0.21	-	101	0.23	
LC0023	0.21	0.02	101	0.23	
LC0024	0.215	0.022	103	0.83	
LC0025	0.207	0.021	99.5	-0.13	
LC0026	0.193	0.02	92.8	-1.81	
LC0027	0.096	-	46.1	-13.4	H
LC0028	0.31	0.06	149	12.2	H
LC0029	0.201	0.003	96.6	-0.85	
LC0030	0.204	0.002	98	-0.49	
LC0031	0.204	0.0244	98	-0.49	
LC0032	0.212	0.023	102	0.47	
LC0033	0.229	0.001	110	2.51	
LC0034	0.202	0.032	97.1	-0.73	
LC0035	-	-	-	-	
LC0036	0.197	0.022	94.7	-1.33	
LC0037	-	-	-	-	
LC0038	0.209	0.021	100	0.11	
LC0039	-	-	-	-	
LC0040	0.24	-	115	3.83	H
LC0041	0.292	0.03	140	10.1	H

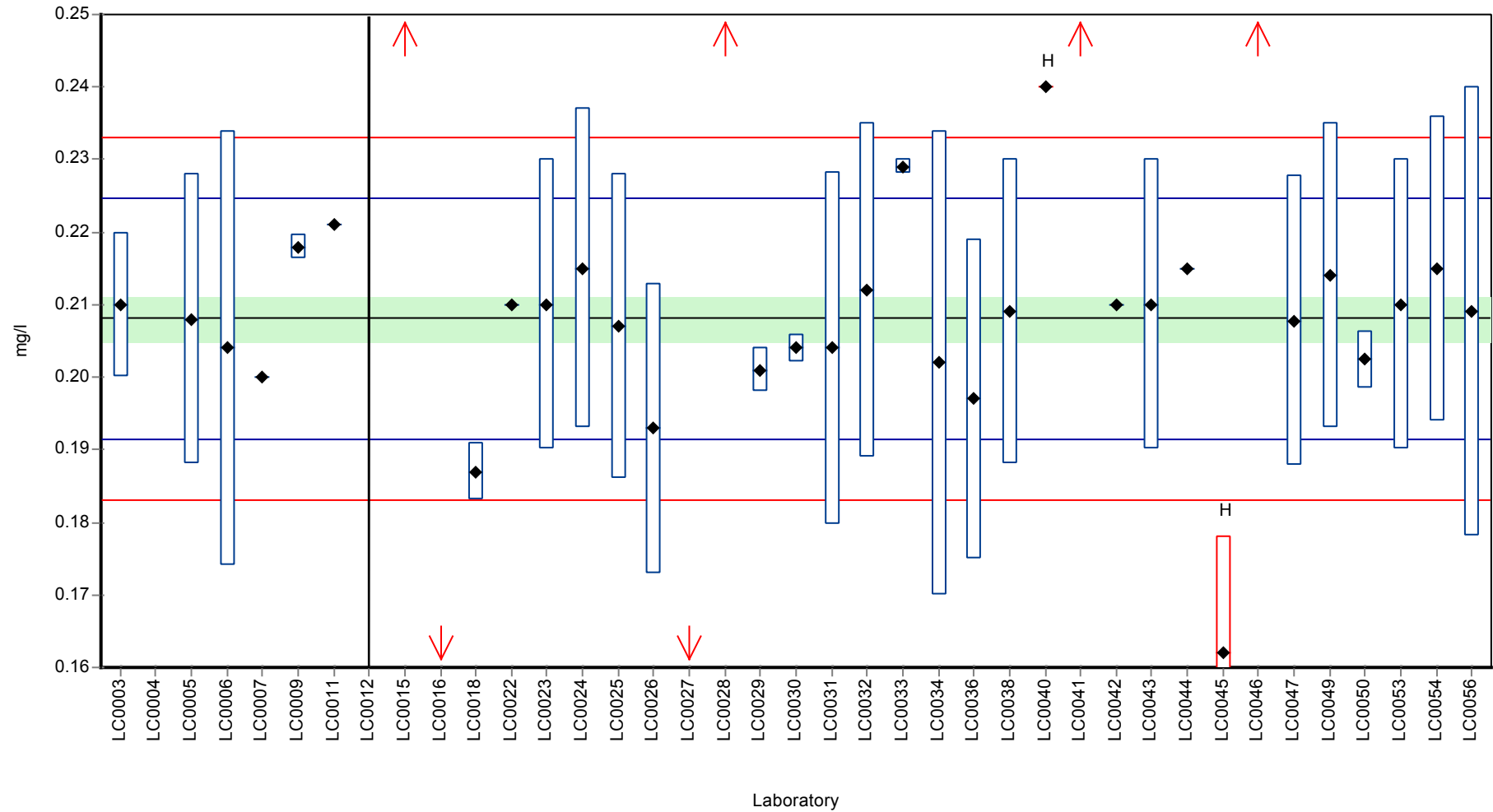
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	0.21	-	101	0.23	
LC0043	0.21	0.02	101	0.23	
LC0044	0.215	-	103	0.83	
LC0045	0.162	0.016	77.9	-5.52	H
LC0046	0.273	-	131	7.78	H
LC0047	0.20774	0.02	99.8	-0.04	
LC0048	-	-	-	-	
LC0049	0.214	0.021	103	0.71	
LC0050	0.2024	0.004	97.3	-0.68	
LC0051	-	-	-	-	
LC0052	-	-	-	-	
LC0053	0.21	0.02	101	0.23	
LC0054	0.215	0.021	103	0.83	
LC0055	-	-	-	-	
LC0056	0.209	0.031	100	0.11	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.218 ± 0.0314	0.208 ± 0.00465	mg/l
Minimum	0.096	0.187	mg/l
Maximum	0.53	0.229	mg/l
Standard deviation	0.0637	0.00834	mg/l
rel. Standard deviation	29.2	4.01	%
n	37	29	-

Graphical presentation of results

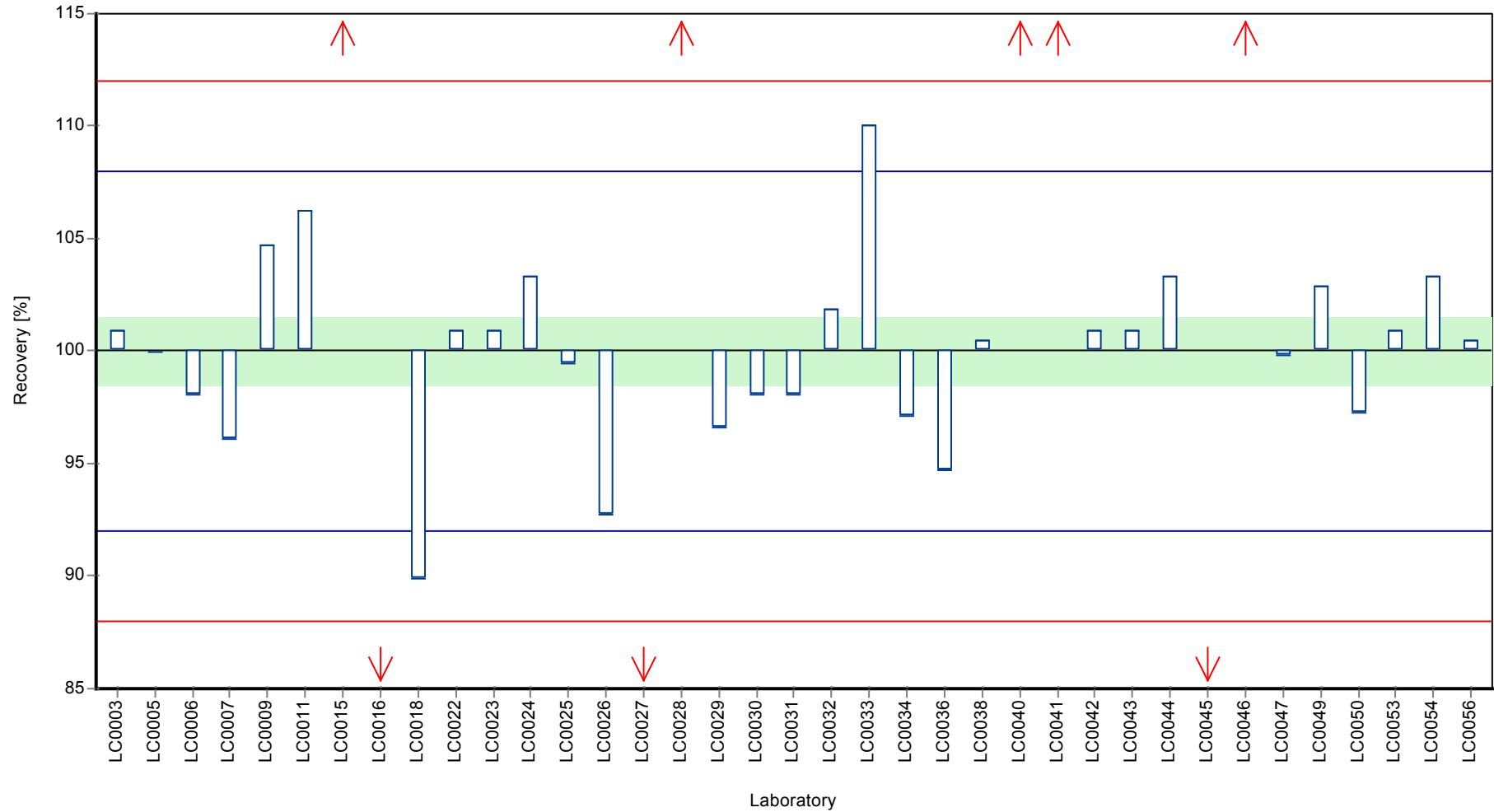
Results



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Orthophosphate (as PO4)

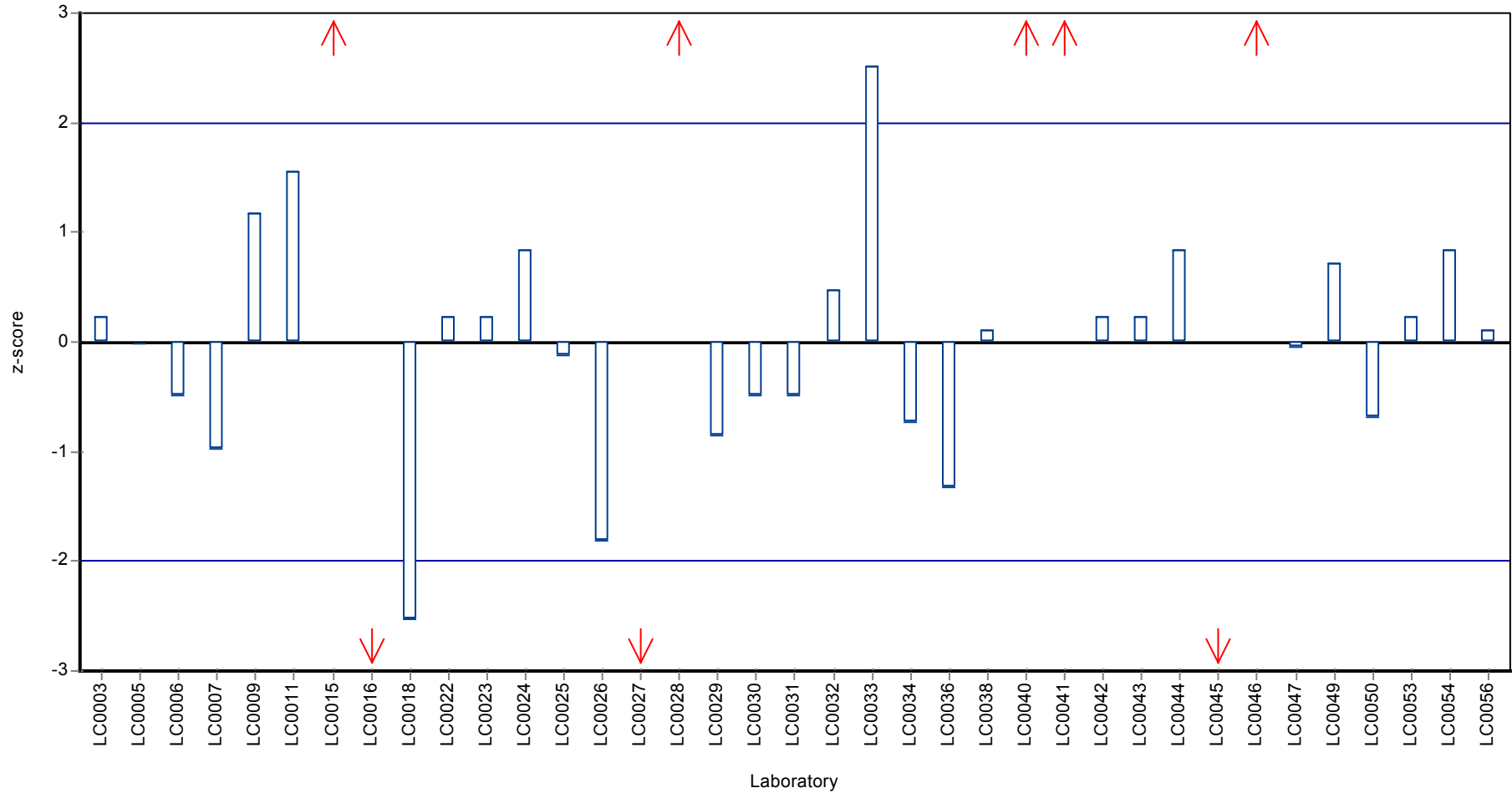
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Orthophosphate (as PO4)

Z-score





## Parameter oriented report

### N140 A

#### Sulfate (as SO<sub>4</sub>)

Unit	mg/l
Mean ± CI (99%)	151 ± 2.01
Minimum - Maximum	142 - 159
Control test value ± U	151 ± 7.9

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	153.9	1.8	102	0.75	
LC0002	125.5	5	83.1	-6.43	H
LC0003	150.734	6.5	99.9	-0.05	
LC0004	147.7	14.8	97.9	-0.82	
LC0005	164	8.86	109	3.3	H
LC0006	154	10	102	0.78	
LC0007	133	-	88.1	-4.53	H
LC0008	151.56	9.09	100	0.16	
LC0009	149	3.31	98.7	-0.49	
LC0010	152	-	101	0.27	
LC0011	151	-	100	0.02	
LC0012	130	4.1	86.1	-5.29	H
LC0013	-	-	-	-	
LC0014	153.1083	0.009	101	0.55	
LC0015	193.944	27.2	128	10.9	H
LC0016	76.848	11.53	50.9	-18.7	H
LC0017	145	-	96.1	-1.5	
LC0018	155.53	18.5	103	1.16	
LC0019	122.6	0.81	81.2	-7.16	H
LC0020	-	-	-	-	
LC0021	152	15.2	101	0.27	
LC0022	144	22	95.4	-1.75	
LC0023	149	15	98.7	-0.49	
LC0024	153.15	15.3	101	0.56	
LC0025	152.2	4.6	101	0.32	
LC0026	142	14	94.1	-2.26	
LC0027	148	-	98.1	-0.74	
LC0028	-	-	-	-	
LC0029	154	0.35	102	0.78	
LC0030	141.53	2	93.8	-2.38	
LC0031	152.81	9.169	101	0.47	
LC0032	153	22.9	101	0.52	
LC0033	152	0.05	101	0.27	
LC0034	150	20	99.4	-0.24	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	157	15.7	104	1.53	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

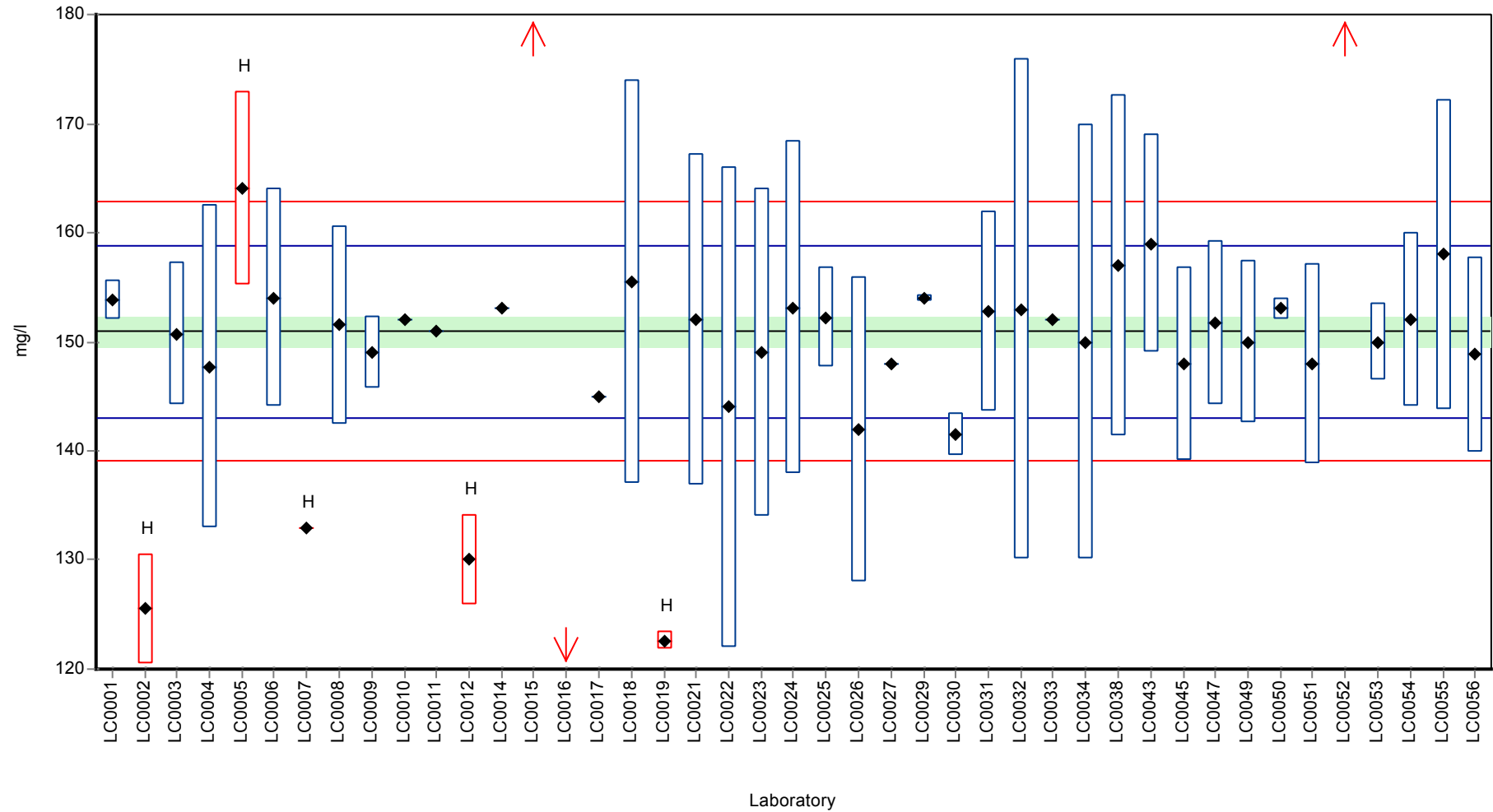
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	159	10	105	2.04	
LC0044	-	-	-	-	
LC0045	148	8.9	98.1	-0.74	
LC0046	-	-	-	-	
LC0047	151.7	7.5	101	0.19	
LC0048	-	-	-	-	
LC0049	150	7.5	99.4	-0.24	
LC0050	153.05	1	101	0.54	
LC0051	147.9	9.17	98	-0.77	
LC0052	193	-	128	10.6	H
LC0053	150	3.6	99.4	-0.24	
LC0054	152	8	101	0.27	
LC0055	158	14.2	105	1.79	
LC0056	148.8	8.9	98.6	-0.54	

#### Characteristics of parameter

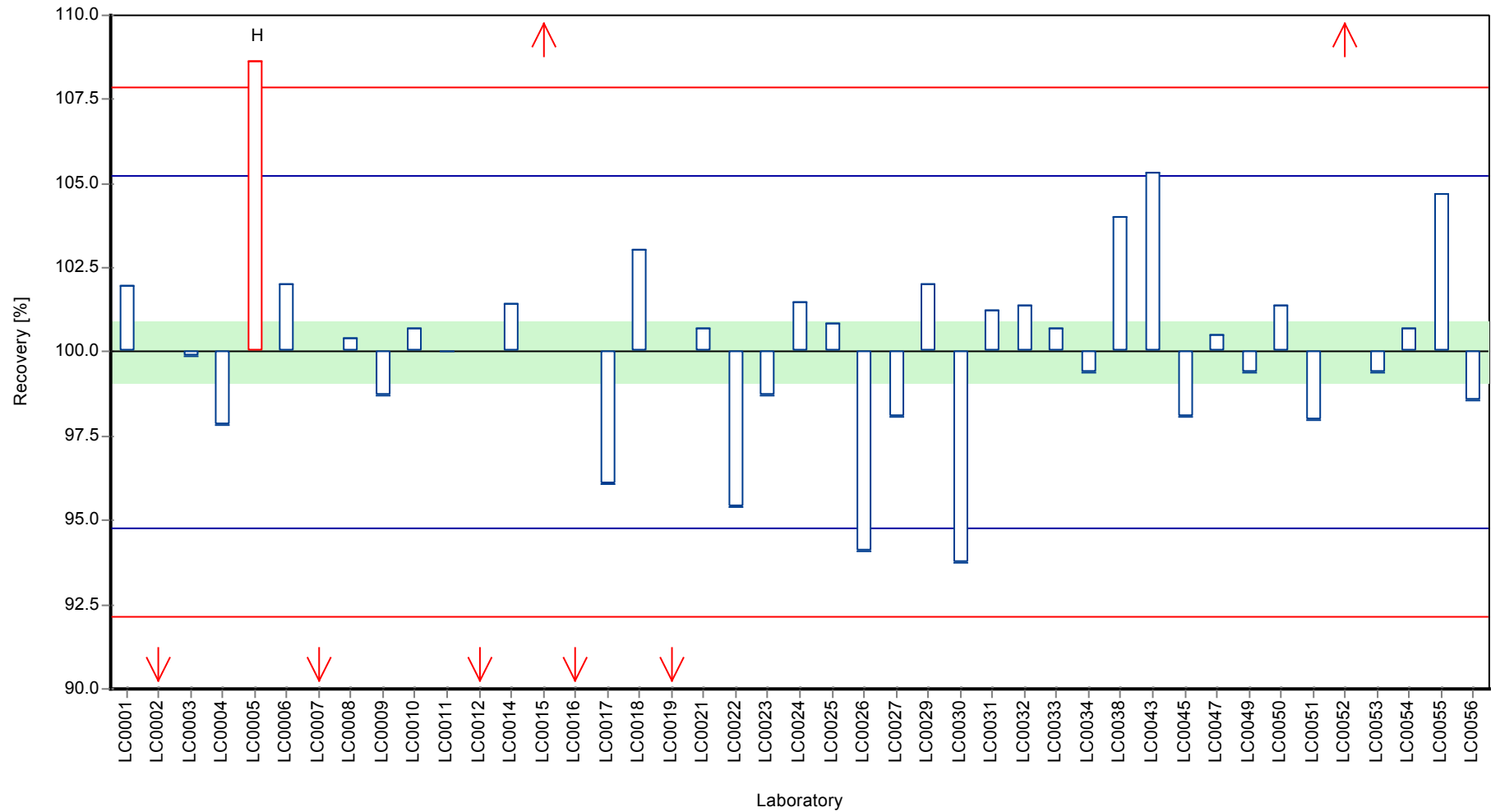
	all results	without outliers	Unit
Mean ± CI (99%)	149 ± 7.7	151 ± 2.01	mg/l
Minimum	76.8	142	mg/l
Maximum	194	159	mg/l
Standard deviation	16.8	3.96	mg/l
rel. Standard deviation	11.3	2.62	%
n	43	35	-

Graphical presentation of results

Results



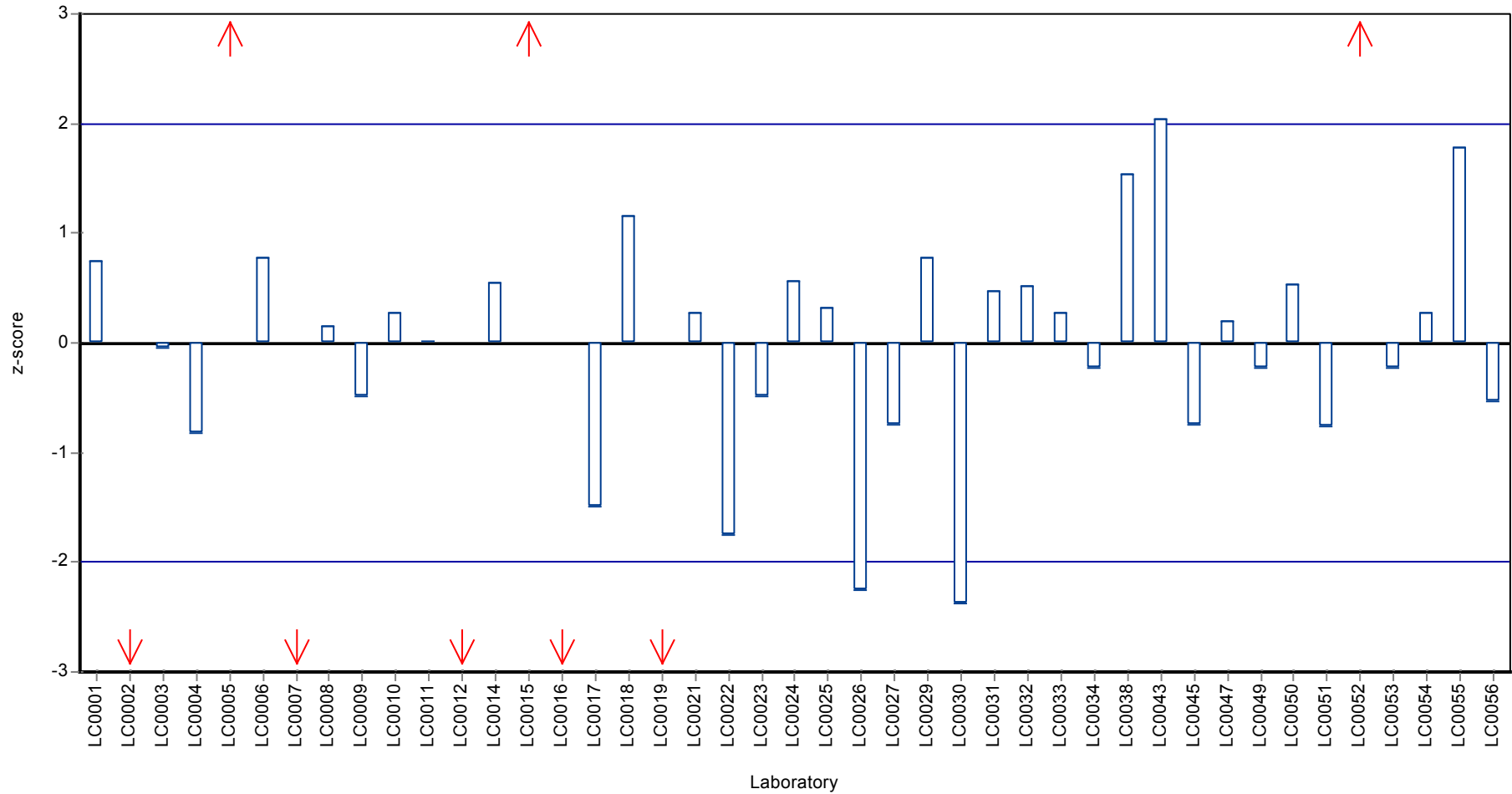
Recovery rate



Parameter oriented report Major ions N140

Sample: N140A, Parameter: Sulfate (as SO<sub>4</sub>)

Z-score



## Parameter oriented report

### N140 B

#### Sulfate (as SO<sub>4</sub>)

Unit	mg/l
Mean ± CI (99%)	23 ± 0.419
Minimum - Maximum	21.4 - 25
Control test value ± U	23.6 ± 1.16

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	24.9	1.1	108	2.24	
LC0002	32.85	5	143	11.7	H
LC0003	22.659	1	98.4	-0.44	
LC0004	22.6	2.3	98.1	-0.51	
LC0005	26.5	1.43	115	4.15	H
LC0006	23.4	2	102	0.44	
LC0007	21.8	-	94.7	-1.47	
LC0008	23.3	1.4	101	0.33	
LC0009	23.4	0.35	102	0.44	
LC0010	23	-	99.9	-0.03	
LC0011	23	-	99.9	-0.03	
LC0012	21.8	0.68	94.7	-1.47	
LC0013	-	-	-	-	
LC0014	25.4513	0.0044	111	2.9	H
LC0015	23.918	3.3	104	1.06	
LC0016	48.03	7.2	209	29.9	H
LC0017	25	-	109	2.36	
LC0018	23.82	4.407	103	0.95	
LC0019	23.13	0.1	100	0.12	
LC0020	-	-	-	-	
LC0021	23.4	2.34	102	0.44	
LC0022	21.4	3.2	92.9	-1.95	
LC0023	22.3	2.2	96.8	-0.87	
LC0024	23.86	2.4	104	0.99	
LC0025	23.3	0.7	101	0.33	
LC0026	22	2.2	95.5	-1.23	
LC0027	20.6	-	89.5	-2.9	H
LC0028	-	-	-	-	
LC0029	23.3	0.06	101	0.33	
LC0030	22.47	2	97.6	-0.67	
LC0031	23.11	1.387	100	0.1	
LC0032	23.2	3.48	101	0.2	
LC0033	22.94	0.057	99.6	-0.1	
LC0034	22.9	-	99.4	-0.15	
LC0035	-	-	-	-	
LC0036	-	-	-	-	
LC0037	-	-	-	-	
LC0038	23.5	2.4	102	0.56	
LC0039	-	-	-	-	
LC0040	-	-	-	-	
LC0041	-	-	-	-	

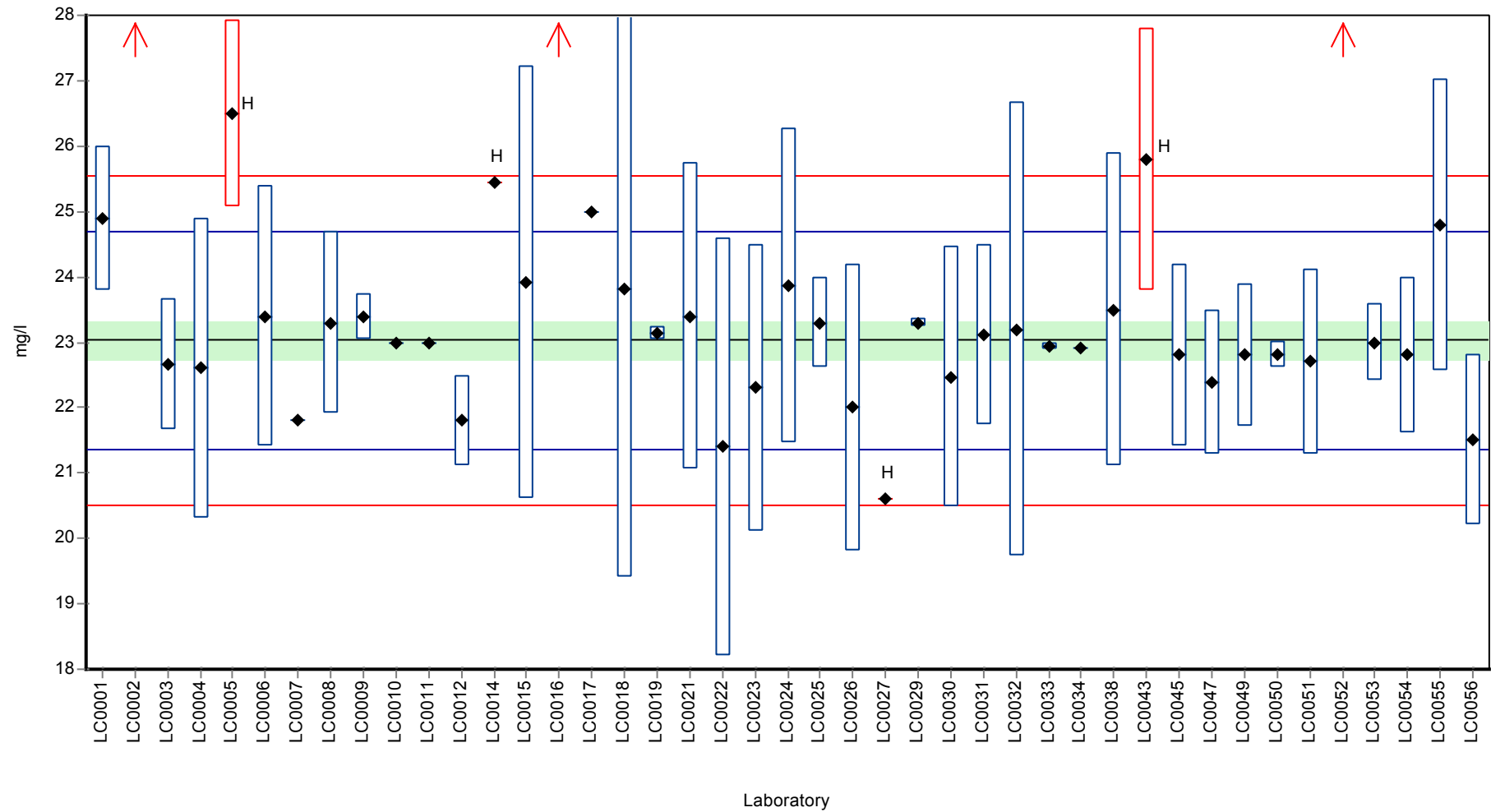
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	25.8	2	112	3.31	H
LC0044	-	-	-	-	
LC0045	22.8	1.4	99	-0.27	
LC0046	-	-	-	-	
LC0047	22.383	1.1	97.2	-0.77	
LC0048	-	-	-	-	
LC0049	22.8	1.1	99	-0.27	
LC0050	22.82	0.2	99.1	-0.25	
LC0051	22.7	1.41	98.6	-0.39	
LC0052	31.2	-	135	9.76	H
LC0053	23	0.6	99.9	-0.03	
LC0054	22.8	1.2	99	-0.27	
LC0055	24.8	2.23	108	2.12	
LC0056	21.5	1.3	93.4	-1.83	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	24.2 ± 1.98	23 ± 0.419	mg/l
Minimum	20.6	21.4	mg/l
Maximum	48	25	mg/l
Standard deviation	4.33	0.837	mg/l
rel. Standard deviation	17.9	3.63	%
n	43	36	-

Graphical presentation of results

Results

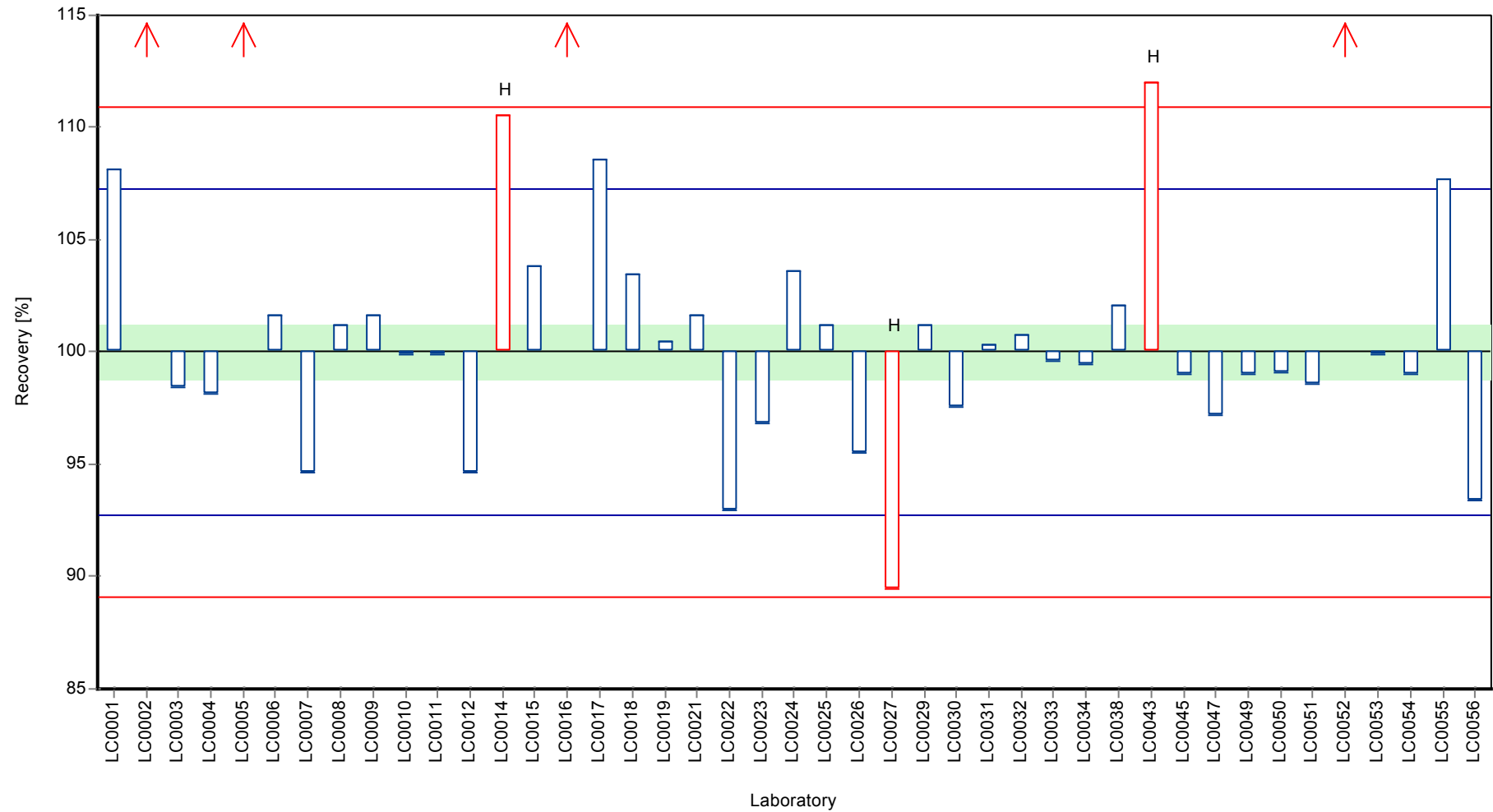




Parameter oriented report Major ions N140

Sample: N140B, Parameter: Sulfate (as SO<sub>4</sub>)

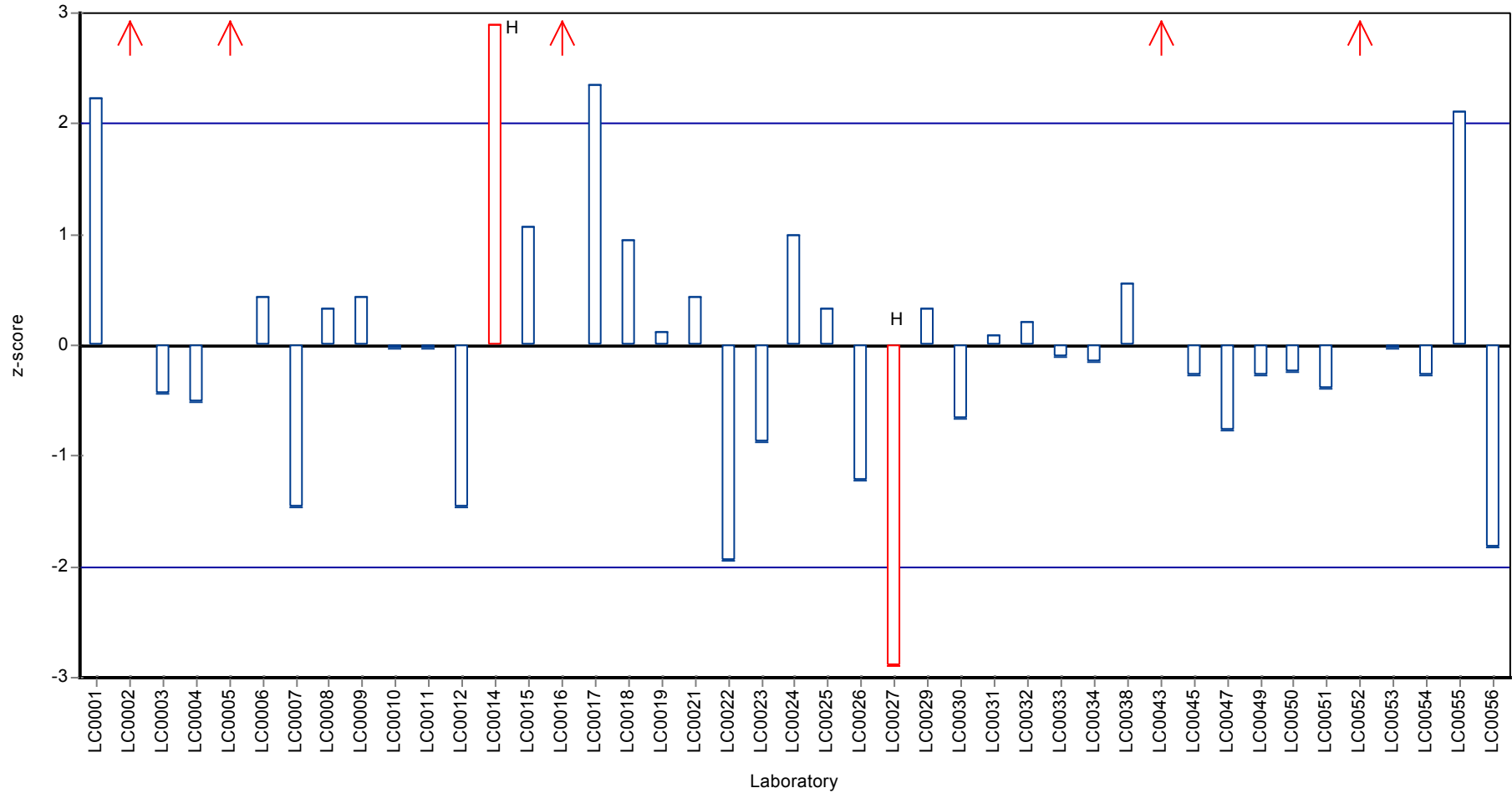
Recovery rate



Parameter oriented report Major ions N140

Sample: N140B, Parameter: Sulfate (as SO<sub>4</sub>)

Z-score



## 8 Laboratory oriented report

The laboratory oriented report is sorted by laboratory code.

The following results were achieved:

Sample: N140A

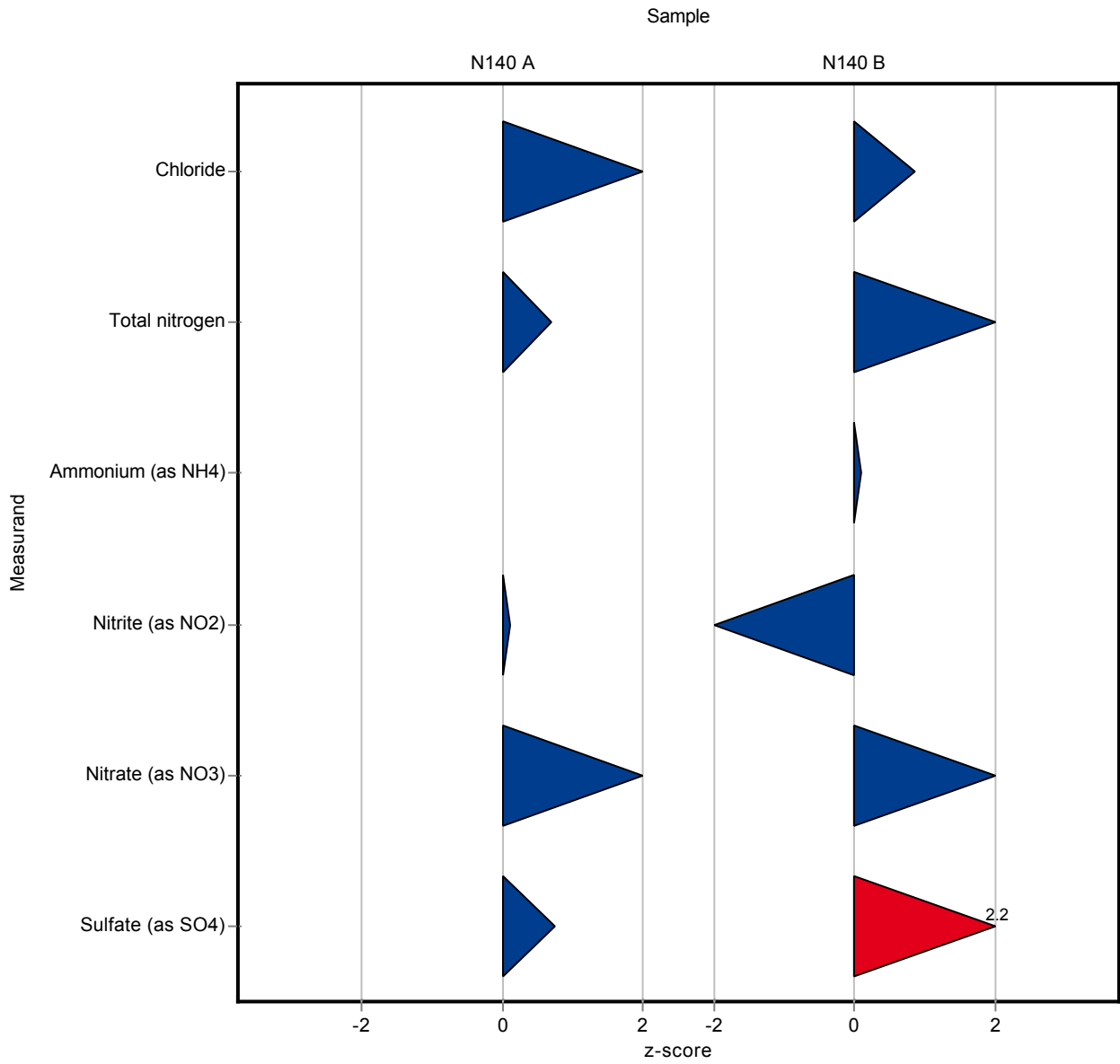
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	-	-	0.142	-	-
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	126.8	1.5	3.9	105	1.54
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	-	-	20	-	-
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	11.8	1.4	0.646	104	0.70
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.06 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.005	0.001	0.00102	102	0.12
Nitrate (as NO3)	mg/l	48.8 ± 0.756	50.9	1.2	1.65	104	1.27
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	153.9	1.8	3.96	102	0.75

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	-	-	0.114	-	-
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	21.4	1.2	0.71	103	0.85
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	-	-	6.58	-	-
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	3.3	1.4	0.245	111	1.37
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.136	0.01	0.0103	101	0.10
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.158	0.01	0.00823	93.6	-1.30
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.5	1.1	0.468	106	1.59
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	24.9	1.1	0.837	108	2.24



The following results were achieved:

**Sample: N140A**

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	7.22	0.1	0.142	94.1	-3.17
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	151.9	5	5.01	102	0.67
Chloride	mg/l	121 ± 1.83	105.5	1	3.9	87.3	-3.92
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	36.9	0.53	0.859	102	0.94
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	1364	10	20	101	0.64
Magnesium	mg/l	65.1 ± 0.886	67.2	2.5	1.72	103	1.20
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	48.7	0.8	1.65	99.8	-0.06
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	125.5	5	3.96	83.1	-6.43

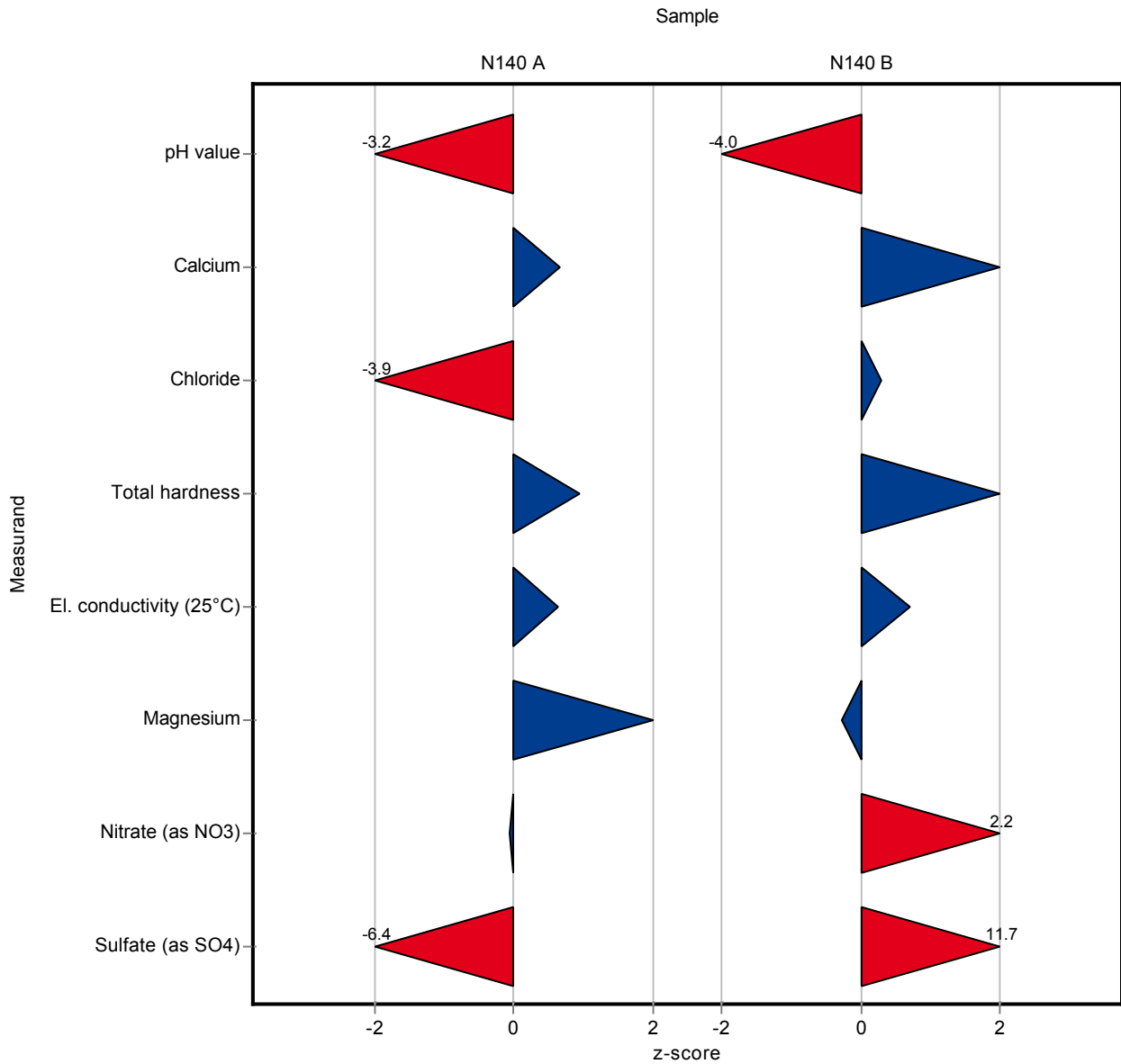
\*see '4 Explanatory notes' for further detail

**Sample: N140B**

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	7.67	0.1	0.114	94.3	-4.05
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	63.55	5	1.77	103	1.17
Chloride	mg/l	20.8 ± 0.333	21	1	0.71	101	0.29
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	12.1	0.53	0.261	103	1.54
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	457.5	2	6.58	101	0.69
Magnesium	mg/l	12.9 ± 0.23	12.8	2.5	0.46	99	-0.29

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.8	0.8	0.468	109	2.23
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	32.85	5	0.837	143	11.70





The following results were achieved:

Sample: N140A

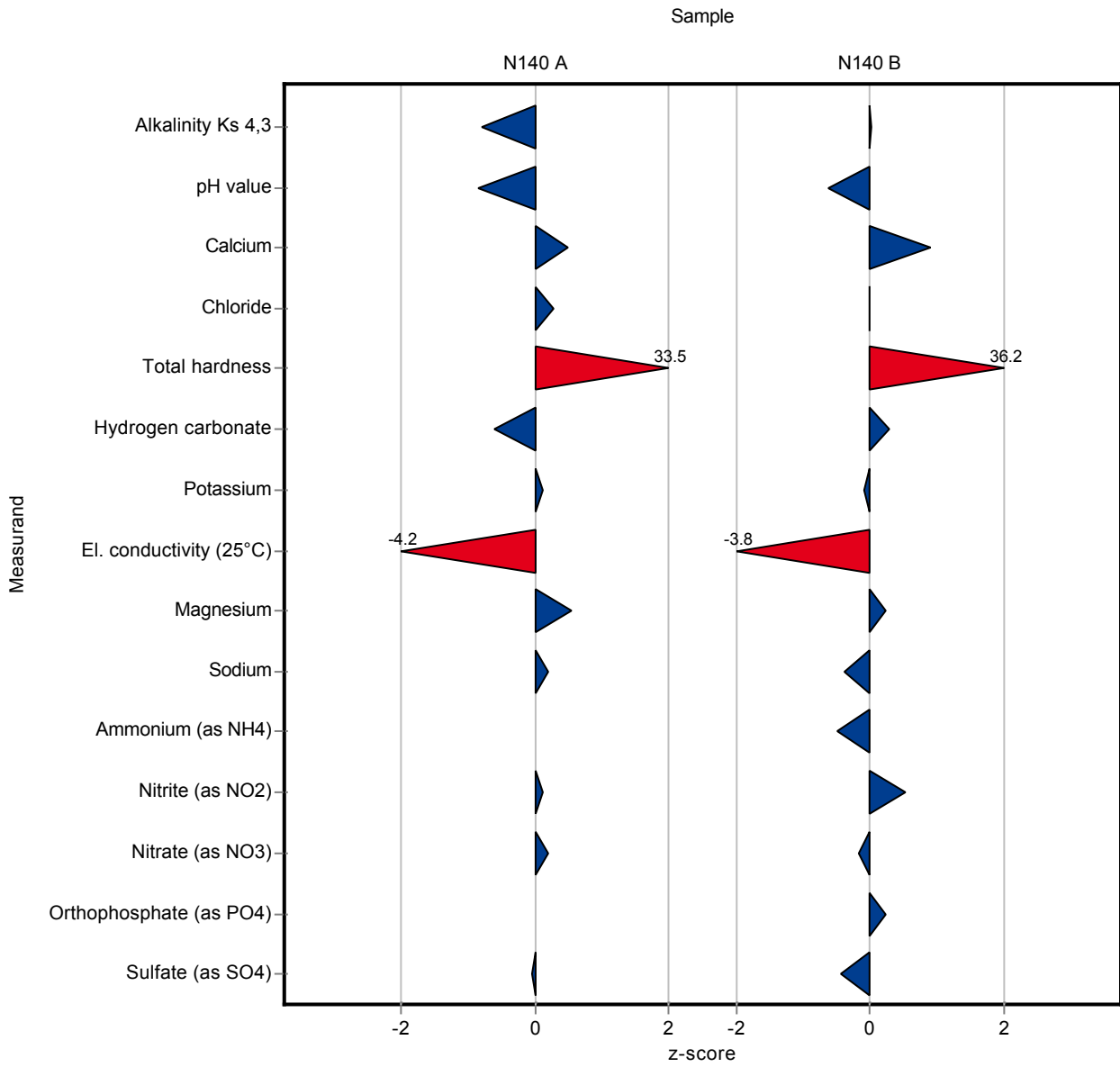
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.49	0.31	0.106	98.9	-0.81
pH value	-	7.67 ± 0.0656	7.55	0.02	0.142	98.4	-0.84
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	150.936	15.4	5.01	102	0.48
Chloride	mg/l	121 ± 1.83	121.861	6.5	3.9	101	0.28
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	64.828	6.5	0.859	180	33.50
Hydrogen carbonate	mg/l	461 ± 2.87	457.04	18.7	6.45	99.1	-0.61
Potassium	mg/l	5.33 ± 0.136	5.357	0.6	0.26	101	0.12
El. conductivity (25°C)	µS/c	1350 ± 9.38	1266.64	50.7	20	93.7	-4.23
Magnesium	mg/l	65.1 ± 0.886	66.083	6.7	1.72	101	0.55
Sodium	mg/l	44.1 ± 0.78	44.406	4.6	1.47	101	0.21
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.025	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.005	0.0003	0.00102	102	0.12
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.139	2.2	1.65	101	0.20
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	<0.03 (LOQ)	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	150.734	6.5	3.96	99.9	-0.05

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.544	0.15	0.0496	100	0.03
pH value	-	8.13 ± 0.0535	8.06	0.02	0.114	99.1	-0.63
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	63.082	6.4	1.77	103	0.91
Chloride	mg/l	20.8 ± 0.333	20.794	1.1	0.71	100	0.00
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	21.119	2.1	0.261	181	36.20
Hydrogen carbonate	mg/l	215 ± 1.49	216.25	8.9	3.02	100	0.29
Potassium	mg/l	2.14 ± 0.0444	2.13	0.2	0.0824	99.7	-0.08
El. conductivity (25°C)	µS/c	453 ± 3.01	428.13	17.1	6.58	94.5	-3.77
Magnesium	mg/l	12.9 ± 0.23	13.045	1.3	0.46	101	0.24

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.569	1.3	0.382	98.9	-0.38
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.13	0.019	0.0103	96.3	-0.48
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.173	0.009	0.00823	103	0.52
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.673	0.5	0.468	99.3	-0.18
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.21	0.01	0.00834	101	0.23
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22.659	1	0.837	98.4	-0.44



The following results were achieved:

Sample: N140A

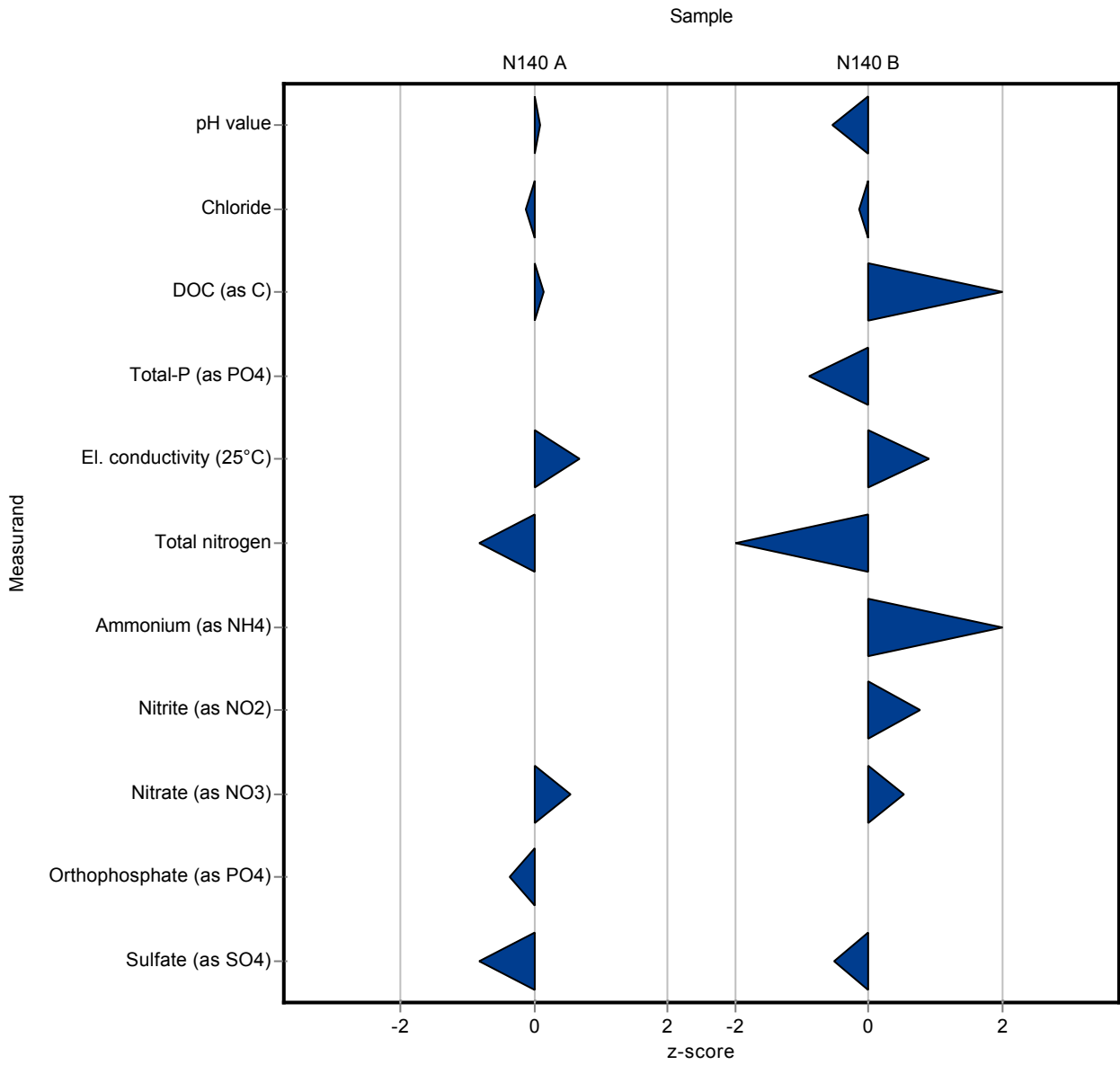
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	7.68	0.38	0.142	100	0.08
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	120.3	12	3.9	99.6	-0.13
DOC (as C)	mg/l	1.19 ± 0.0672	1.21	0.22	0.116	101	0.14
Total-P (as PO4)	mg/l	0.034 ± 0.00767	<0.015	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	1365	68	20	101	0.69
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	10.82	1.1	0.646	95.3	-0.82
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.012	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.016	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.7	5	1.65	102	0.54
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.027	0.005	0.00413	94.6	-0.37
Sulfate (as SO4)	mg/l	151 ± 2.01	147.7	14.8	3.96	97.9	-0.82

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	8.07	0.4	0.114	99.2	-0.54
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	20.7	2.1	0.71	99.5	-0.14
DOC (as C)	mg/l	2.99 ± 0.0861	3.25	0.59	0.149	109	1.75
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.479	0.057	0.0549	90.8	-0.89
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	459	23	6.58	101	0.92
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	2.71	0.27	0.245	91.4	-1.04
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.148	0.034	0.0103	110	1.27
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.175	0.049	0.00823	104	0.76
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12	1.2	0.468	102	0.52
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	<0.015	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22.6	2.3	0.837	98.1	-0.51



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	7.7	0.054	0.142	100	0.22
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	138	5.52	5.01	92.9	-2.10
Chloride	mg/l	121 ± 1.83	117	1.87	3.9	96.9	-0.97
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.049	0.004	0.0125	144	1.20
Total hardness	°d	36.1 ± 0.463	69.3	2.8	0.859	192	38.70
Hydrogen carbonate	mg/l	461 ± 2.87	433	19.5	6.45	93.9	-4.34
Potassium	mg/l	5.33 ± 0.136	5.45	0.91	0.26	102	0.48
El. conductivity (25°C)	µS/c	1350 ± 9.38	1173	5.86	20	86.8	-8.90
Magnesium	mg/l	65.1 ± 0.886	66.5	2.73	1.72	102	0.79
Sodium	mg/l	44.1 ± 0.78	24.4	2.3	1.47	55.3	-13.40
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.064	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.022	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	45.6	2.65	1.65	93.4	-1.94
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.037	0.003	0.00413	130	2.05
Sulfate (as SO4)	mg/l	151 ± 2.01	164	8.86	3.96	109	3.30

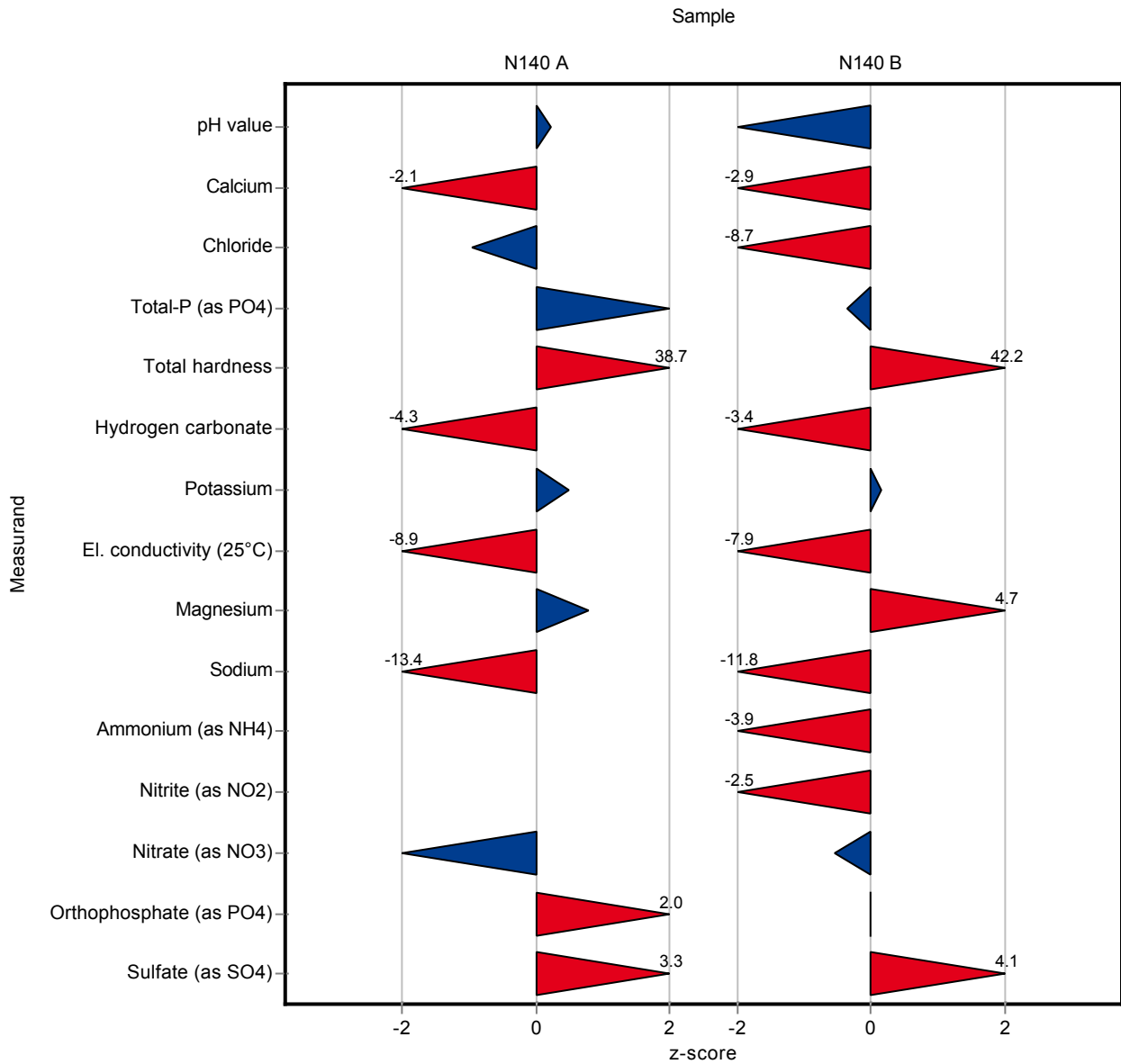
\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	7.95	0.056	0.114	97.8	-1.59
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	56.3	2.25	1.77	91.6	-2.92
Chloride	mg/l	20.8 ± 0.333	14.6	0.23	0.71	70.2	-8.73
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.508	0.04	0.0549	96.3	-0.36
Total hardness	°d	11.7 ± 0.143	22.7	0.9	0.261	194	42.20
Hydrogen carbonate	mg/l	215 ± 1.49	205	9.22	3.02	95.2	-3.44
Potassium	mg/l	2.14 ± 0.0444	2.15	0.36	0.0824	101	0.17
El. conductivity (25°C)	µS/c	453 ± 3.01	401	2.01	6.58	88.5	-7.89
Magnesium	mg/l	12.9 ± 0.23	15.1	0.62	0.46	117	4.71



Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	8.2	0.67	0.382	64.5	-11.80
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.095	0.006	0.0103	70.4	-3.90
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.148	0.009	0.00823	87.7	-2.52
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.5	0.78	0.468	97.8	-0.55
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.208	0.02	0.00834	100	-0.01
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	26.5	1.43	0.837	115	4.15



The following results were achieved:

Sample: N140A

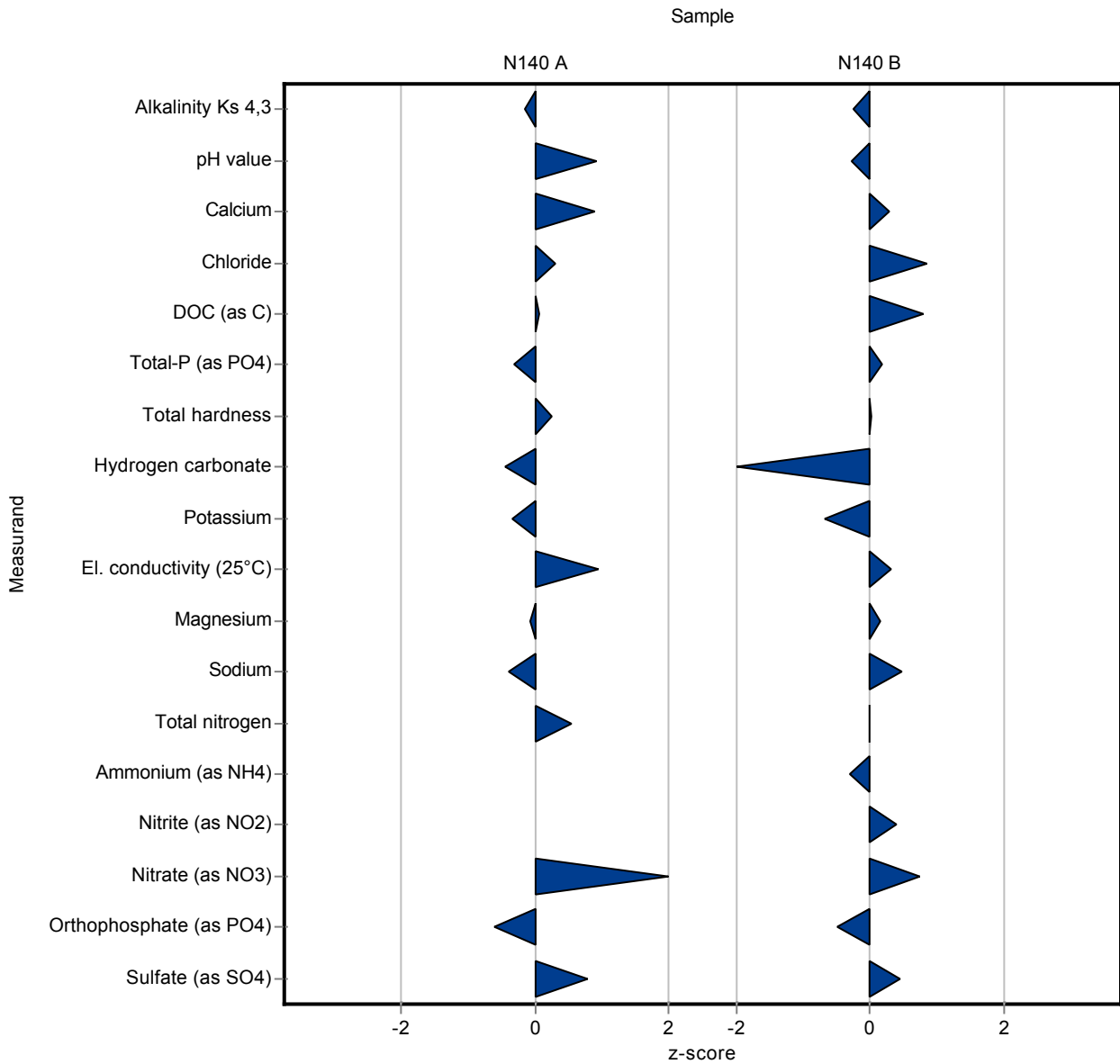
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.56	0.4	0.106	99.8	-0.14
pH value	-	7.67 ± 0.0656	7.8	0.4	0.142	102	0.92
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	153	13	5.01	103	0.89
Chloride	mg/l	121 ± 1.83	122	9	3.9	101	0.31
DOC (as C)	mg/l	1.19 ± 0.0672	1.2	0.2	0.116	101	0.05
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.03	0.003	0.0125	88.2	-0.32
Total hardness	°d	36.1 ± 0.463	36.3	2	0.859	101	0.24
Hydrogen carbonate	mg/l	461 ± 2.87	458	19	6.45	99.4	-0.46
Potassium	mg/l	5.33 ± 0.136	5.24	0.7	0.26	98.4	-0.33
El. conductivity (25°C)	µS/c	1350 ± 9.38	1370	55	20	101	0.93
Magnesium	mg/l	65.1 ± 0.886	65	8	1.72	99.8	-0.08
Sodium	mg/l	44.1 ± 0.78	43.5	7	1.47	98.6	-0.41
Total nitrogen	mg/l	11.3 ± 0.423	11.7	1	0.646	103	0.54
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.013	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.01 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	50.8	4	1.65	104	1.21
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.026	0.004	0.00413	91.1	-0.61
Sulfate (as SO4)	mg/l	151 ± 2.01	154	10	3.96	102	0.78

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.53	0.2	0.0496	99.6	-0.26
pH value	-	8.13 ± 0.0535	8.1	0.4	0.114	99.6	-0.28
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	62	5	1.77	101	0.30
Chloride	mg/l	20.8 ± 0.333	21.4	2	0.71	103	0.85
DOC (as C)	mg/l	2.99 ± 0.0861	3.11	0.5	0.149	104	0.81
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.537	0.06	0.0549	102	0.17
Total hardness	°d	11.7 ± 0.143	11.7	0.5	0.261	100	0.01
Hydrogen carbonate	mg/l	215 ± 1.49	212	9	3.02	98.4	-1.12
Potassium	mg/l	2.14 ± 0.0444	2.08	0.3	0.0824	97.4	-0.68
El. conductivity (25°C)	µS/c	453 ± 3.01	455	19	6.58	100	0.31
Magnesium	mg/l	12.9 ± 0.23	13	1.6	0.46	101	0.15

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.9	2	0.382	101	0.48
Total nitrogen	mg/l	2.96 ± 0.16	2.96	0.3	0.245	99.9	-0.02
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.132	0.02	0.0103	97.8	-0.29
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.172	0.02	0.00823	102	0.40
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.1	0.9	0.468	103	0.74
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.204	0.03	0.00834	98	-0.49
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.4	2	0.837	102	0.44



The following results were achieved:

Sample: N140A

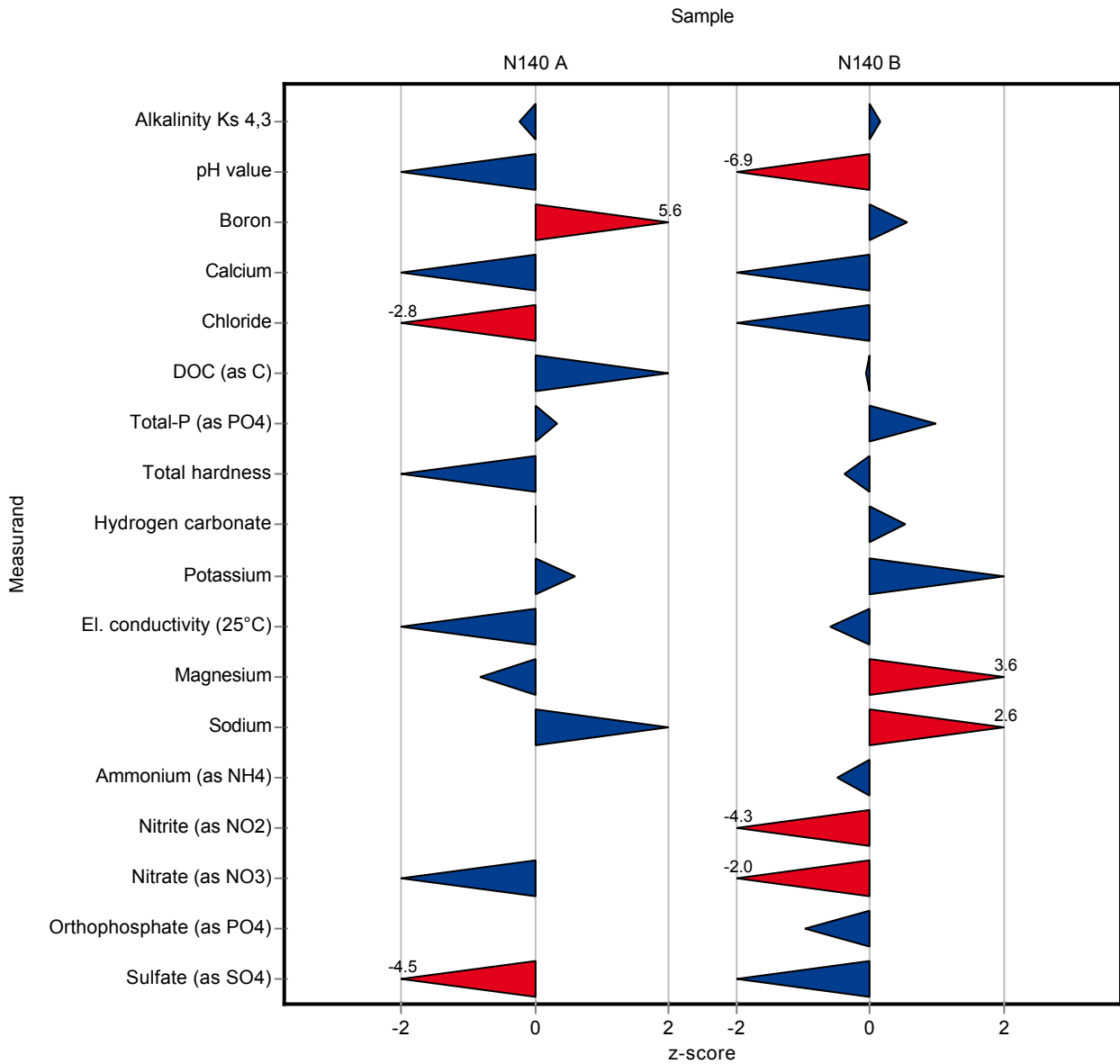
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.55	-	0.106	99.7	-0.24
pH value	-	7.67 ± 0.0656	7.43	-	0.142	96.9	-1.69
Boron	mg/l	0.128 ± 0.00389	0.158	-	0.00535	123	5.56
Calcium	mg/l	149 ± 2.47	142	-	5.01	95.6	-1.30
Chloride	mg/l	121 ± 1.83	110	-	3.9	91.1	-2.76
DOC (as C)	mg/l	1.19 ± 0.0672	1.35	-	0.116	113	1.34
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.038	-	0.0125	112	0.32
Total hardness	°d	36.1 ± 0.463	34.5	-	0.859	95.6	-1.85
Hydrogen carbonate	mg/l	461 ± 2.87	461	-	6.45	100	0.00
Potassium	mg/l	5.33 ± 0.136	5.48	-	0.26	103	0.59
El. conductivity (25°C)	µS/c	1350 ± 9.38	1330	-	20	98.4	-1.06
Magnesium	mg/l	65.1 ± 0.886	63.7	-	1.72	97.8	-0.84
Sodium	mg/l	44.1 ± 0.78	46.5	-	1.47	105	1.63
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.01 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.005	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	47	-	1.65	96.3	-1.09
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	<0.1 (LOQ)	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	133	-	3.96	88.1	-4.53

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.55	-	0.0496	100	0.15
pH value	-	8.13 ± 0.0535	7.35	-	0.114	90.4	-6.85
Boron	mg/l	0.0148 ± 0.00184	0.016	-	0.00213	108	0.55
Calcium	mg/l	61.5 ± 0.874	58.9	-	1.77	95.8	-1.45
Chloride	mg/l	20.8 ± 0.333	20	-	0.71	96.2	-1.12
DOC (as C)	mg/l	2.99 ± 0.0861	2.98	-	0.149	99.7	-0.06
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.582	-	0.0549	110	0.99
Total hardness	°d	11.7 ± 0.143	11.6	-	0.261	99.2	-0.38
Hydrogen carbonate	mg/l	215 ± 1.49	217	-	3.02	101	0.54
Potassium	mg/l	2.14 ± 0.0444	2.23	-	0.0824	104	1.14
El. conductivity (25°C)	µS/c	453 ± 3.01	449	-	6.58	99.1	-0.60
Magnesium	mg/l	12.9 ± 0.23	14.6	-	0.46	113	3.62

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	13.7	-	0.382	108	2.58
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.13	-	0.0103	96.3	-0.48
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.133	-	0.00823	78.8	-4.34
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	10.8	-	0.468	91.9	-2.04
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.2	-	0.00834	96.1	-0.97
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	21.8	-	0.837	94.7	-1.47





The following results were achieved:

Sample: N140A

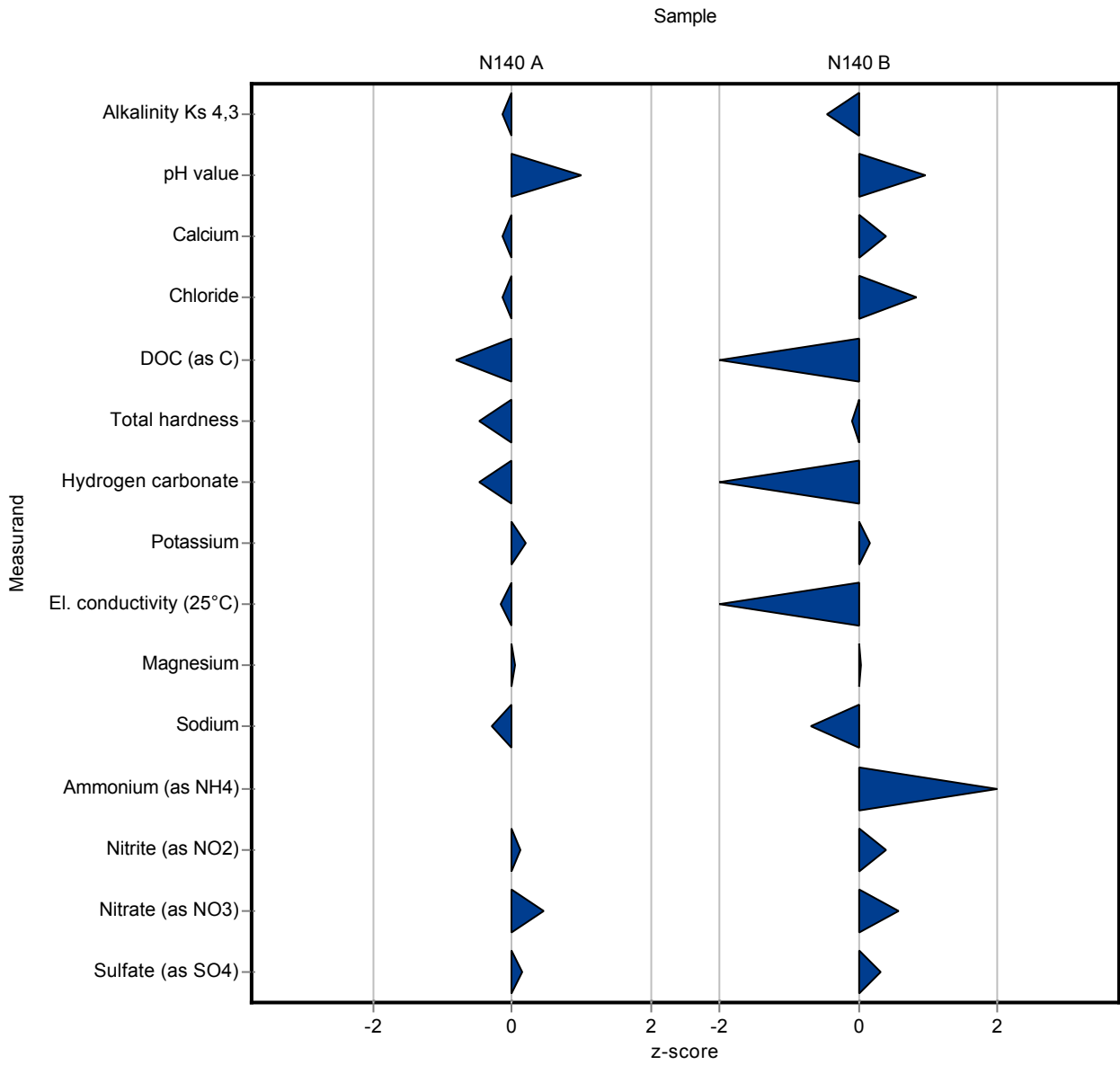
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.56	0.6	0.106	99.8	-0.14
pH value	-	7.67 ± 0.0656	7.81	0.31	0.142	102	0.99
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	147.86	9.17	5.01	99.5	-0.13
Chloride	mg/l	121 ± 1.83	120.31	12.03	3.9	99.6	-0.12
DOC (as C)	mg/l	1.19 ± 0.0672	1.1	0.08	0.116	92.1	-0.81
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	35.68	2.21	0.859	98.9	-0.48
Hydrogen carbonate	mg/l	461 ± 2.87	458	36.6	6.45	99.4	-0.46
Potassium	mg/l	5.33 ± 0.136	5.38	0.44	0.26	101	0.21
El. conductivity (25°C)	µS/c	1350 ± 9.38	1348	54	20	99.8	-0.16
Magnesium	mg/l	65.1 ± 0.886	65.21	4.04	1.72	100	0.04
Sodium	mg/l	44.1 ± 0.78	43.67	3.67	1.47	99	-0.29
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.005	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.005	0.0002	0.00102	102	0.12
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.58	3.97	1.65	102	0.47
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	151.56	9.09	3.96	100	0.16

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.52	0.28	0.0496	99.4	-0.46
pH value	-	8.13 ± 0.0535	8.24	0.33	0.114	101	0.95
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	62.18	3.86	1.77	101	0.40
Chloride	mg/l	20.8 ± 0.333	21.39	2.14	0.71	103	0.84
DOC (as C)	mg/l	2.99 ± 0.0861	2.78	0.19	0.149	93	-1.40
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	11.67	0.72	0.261	99.8	-0.11
Hydrogen carbonate	mg/l	215 ± 1.49	211.6	16.9	3.02	98.2	-1.25
Potassium	mg/l	2.14 ± 0.0444	2.15	0.18	0.0824	101	0.17
El. conductivity (25°C)	µS/c	453 ± 3.01	446	18	6.58	98.5	-1.06
Magnesium	mg/l	12.9 ± 0.23	12.95	0.8	0.46	100	0.04

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.45	1.05	0.382	97.9	-0.69
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.149	0.022	0.0103	110	1.37
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.172	0.007	0.00823	102	0.40
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.02	0.96	0.468	102	0.56
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.3	1.4	0.837	101	0.33



The following results were achieved:

Sample: N140A

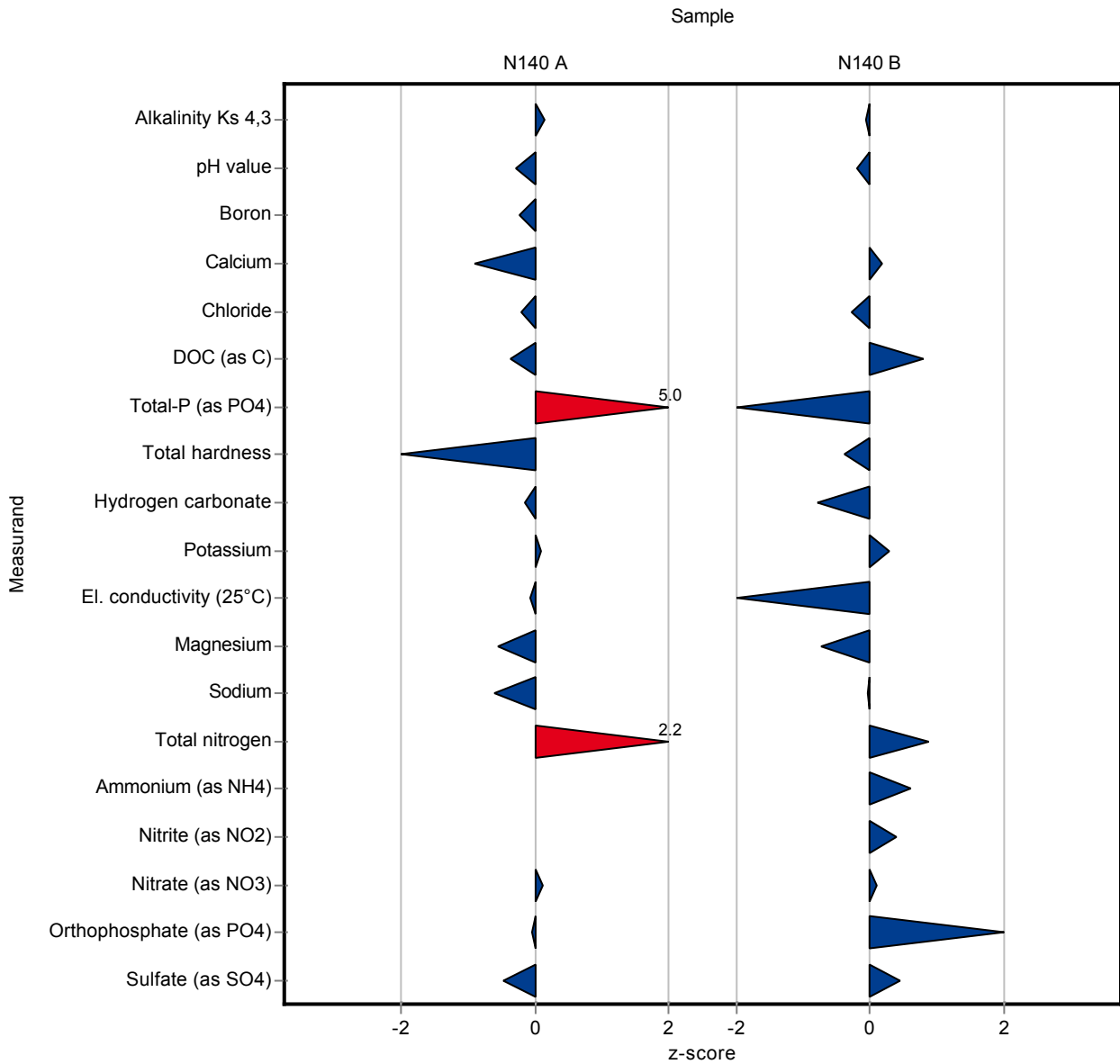
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.59	0.2	0.106	100	0.14
pH value	-	7.67 ± 0.0656	7.63	0.08	0.142	99.5	-0.28
Boron	mg/l	0.128 ± 0.00389	0.127	0.001	0.00535	99	-0.24
Calcium	mg/l	149 ± 2.47	144	1.08	5.01	96.9	-0.90
Chloride	mg/l	121 ± 1.83	120	0.97	3.9	99.3	-0.20
DOC (as C)	mg/l	1.19 ± 0.0672	1.15	0.04	0.116	96.3	-0.38
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.0968	0.002	0.0125	285	5.01
Total hardness	°d	36.1 ± 0.463	35	0.163	0.859	97	-1.27
Hydrogen carbonate	mg/l	461 ± 2.87	460	9.2	6.45	99.8	-0.15
Potassium	mg/l	5.33 ± 0.136	5.35	0.927	0.26	100	0.09
El. conductivity (25°C)	µS/c	1350 ± 9.38	1350	0.22	20	99.9	-0.06
Magnesium	mg/l	65.1 ± 0.886	64.2	0.268	1.72	98.6	-0.55
Sodium	mg/l	44.1 ± 0.78	43.2	1.42	1.47	98	-0.61
Total nitrogen	mg/l	11.3 ± 0.423	12.8	0.07	0.646	113	2.25
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.01 (LOQ)	-16.9922	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.01 (LOQ)	-4.64651	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49	0.74	1.65	100	0.12
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.0283	0.0015	0.00413	99.2	-0.06
Sulfate (as SO4)	mg/l	151 ± 2.01	149	3.31	3.96	98.7	-0.49

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.54	0.12	0.0496	99.9	-0.05
pH value	-	8.13 ± 0.0535	8.11	0.08	0.114	99.7	-0.19
Boron	mg/l	0.0148 ± 0.00184	<0.02 (LOQ)	-7.86614	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	61.8	0.383	1.77	101	0.18
Chloride	mg/l	20.8 ± 0.333	20.6	0.12	0.71	99.1	-0.28
DOC (as C)	mg/l	2.99 ± 0.0861	3.11	0.04	0.149	104	0.81
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.4574	0.0108	0.0549	86.7	-1.28
Total hardness	°d	11.7 ± 0.143	11.6	0.083	0.261	99.2	-0.38
Hydrogen carbonate	mg/l	215 ± 1.49	213	4.26	3.02	98.9	-0.79
Potassium	mg/l	2.14 ± 0.0444	2.16	0.032	0.0824	101	0.29
El. conductivity (25°C)	µS/c	453 ± 3.01	446	0.27	6.58	98.5	-1.06
Magnesium	mg/l	12.9 ± 0.23	12.6	0.276	0.46	97.4	-0.72

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.7	1.08	0.382	99.9	-0.04
Total nitrogen	mg/l	2.96 ± 0.16	3.18	0.05	0.245	107	0.88
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.1411	0.0024	0.0103	105	0.60
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.172	0.0008	0.00823	102	0.40
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.8	0.16	0.468	100	0.09
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.2179	0.0017	0.00834	105	1.18
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.4	0.35	0.837	102	0.44



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.583	-	0.106	100	0.07
pH value	-	7.67 ± 0.0656	7.74	-	0.142	101	0.50
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	148	-	5.01	99.6	-0.11
Chloride	mg/l	121 ± 1.83	128	-	3.9	106	1.85
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.03	-	0.0125	88.2	-0.32
Total hardness	°d	36.1 ± 0.463	36.16	-	0.859	100	0.08
Hydrogen carbonate	mg/l	461 ± 2.87	463	-	6.45	100	0.31
Potassium	mg/l	5.33 ± 0.136	5.9	-	0.26	111	2.21
El. conductivity (25°C)	µS/c	1350 ± 9.38	1297.9	-	20	96	-2.67
Magnesium	mg/l	65.1 ± 0.886	66	-	1.72	101	0.50
Sodium	mg/l	44.1 ± 0.78	46	-	1.47	104	1.29
Total nitrogen	mg/l	11.3 ± 0.423	0.00001	-	0.646	8.81E-5	-17.60
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	0.00001	-	0.0181	0.0558	-0.99
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.005	-	0.00102	102	0.12
Nitrate (as NO3)	mg/l	48.8 ± 0.756	46	-	1.65	94.3	-1.69
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	152	-	3.96	101	0.27

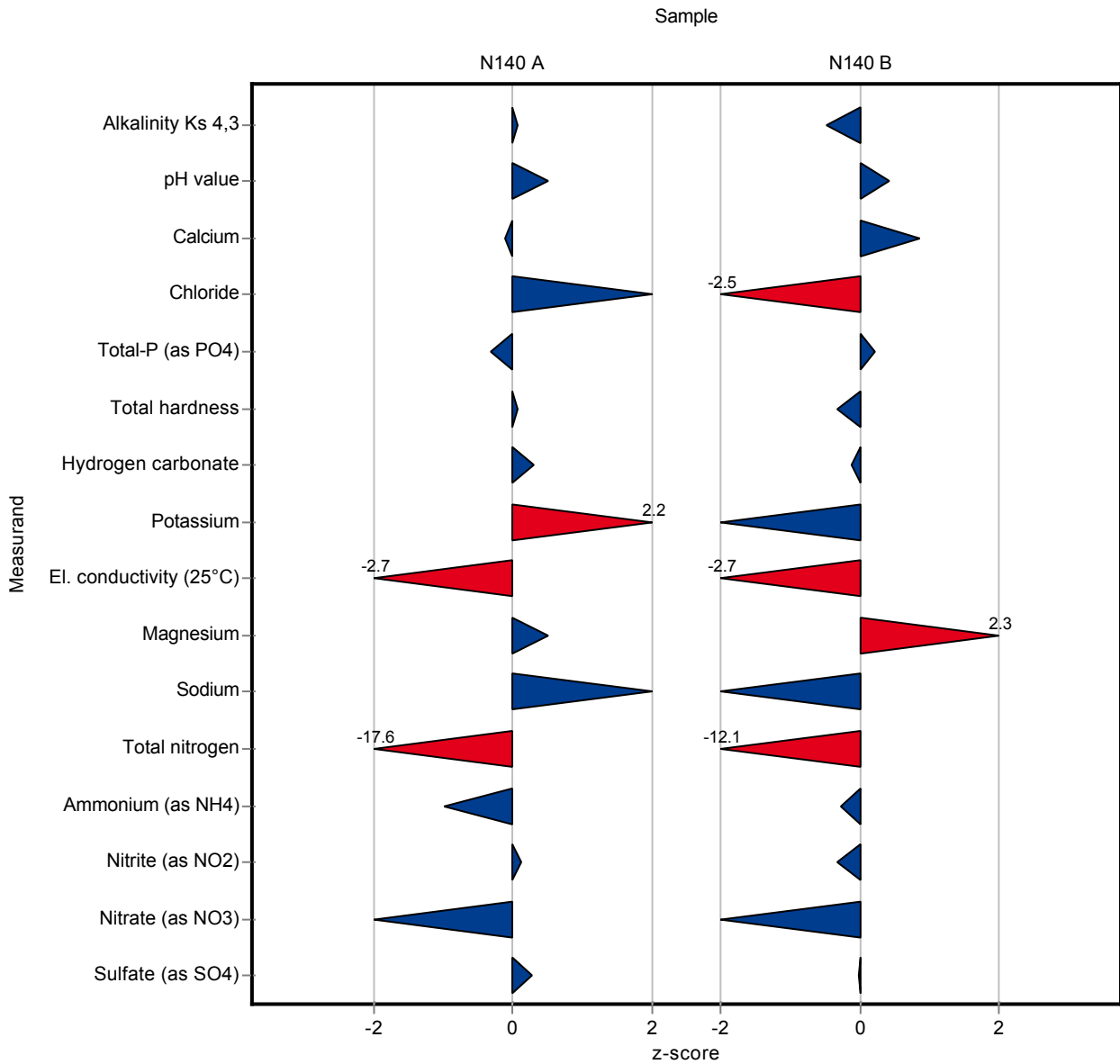
\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.519	-	0.0496	99.3	-0.48
pH value	-	8.13 ± 0.0535	8.18	-	0.114	101	0.42
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	63	-	1.77	102	0.86
Chloride	mg/l	20.8 ± 0.333	19	-	0.71	91.4	-2.53
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.54	-	0.0549	102	0.22
Total hardness	°d	11.7 ± 0.143	11.61	-	0.261	99.2	-0.34
Hydrogen carbonate	mg/l	215 ± 1.49	215	-	3.02	99.8	-0.13
Potassium	mg/l	2.14 ± 0.0444	2	-	0.0824	93.6	-1.65
El. conductivity (25°C)	µS/c	453 ± 3.01	435.3	-	6.58	96.1	-2.68
Magnesium	mg/l	12.9 ± 0.23	14	-	0.46	108	2.32

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12	-	0.382	94.4	-1.87
Total nitrogen	mg/l	2.96 ± 0.16	0.00001	-	0.245	0.000337	-12.10
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.132	-	0.0103	97.8	-0.29
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.166	-	0.00823	98.4	-0.33
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11	-	0.468	93.6	-1.62
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23	-	0.837	99.9	-0.03





The following results were achieved:

Sample: N140A

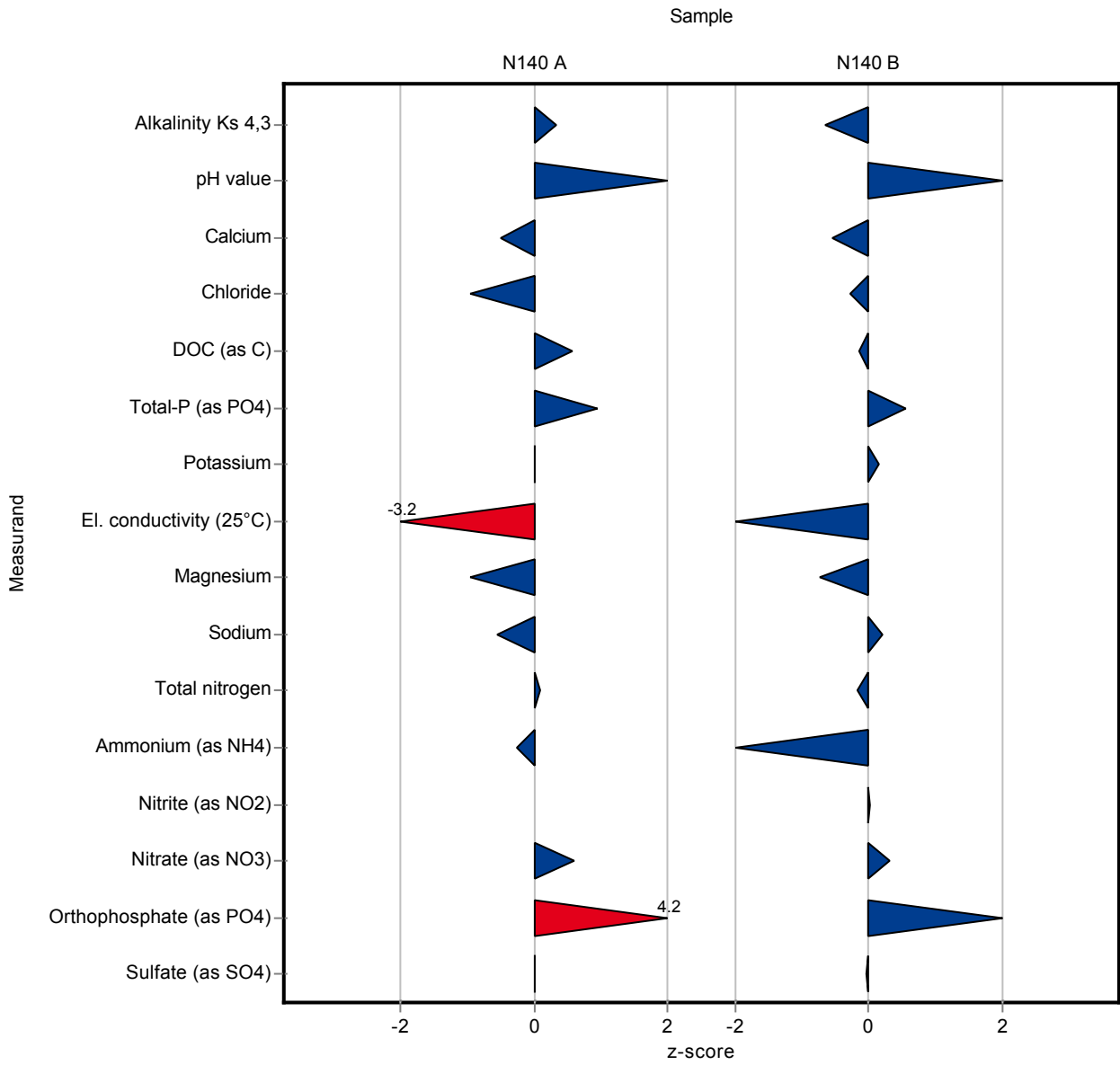
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.61	-	0.106	100	0.33
pH value	-	7.67 ± 0.0656	7.91	-	0.142	103	1.70
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	146	-	5.01	98.3	-0.51
Chloride	mg/l	121 ± 1.83	117	-	3.9	96.9	-0.97
DOC (as C)	mg/l	1.19 ± 0.0672	1.26	-	0.116	106	0.57
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.046	-	0.0125	135	0.96
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	5.33	-	0.26	100	0.02
El. conductivity (25°C)	µS/c	1350 ± 9.38	1287	-	20	95.2	-3.21
Magnesium	mg/l	65.1 ± 0.886	63.5	-	1.72	97.5	-0.95
Sodium	mg/l	44.1 ± 0.78	43.3	-	1.47	98.2	-0.55
Total nitrogen	mg/l	11.3 ± 0.423	11.4	-	0.646	100	0.08
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	0.013	-	0.0181	72.5	-0.27
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.016	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.8	-	1.65	102	0.60
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.046	-	0.00413	161	4.23
Sulfate (as SO4)	mg/l	151 ± 2.01	151	-	3.96	100	0.02

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.51	-	0.0496	99.1	-0.66
pH value	-	8.13 ± 0.0535	8.28	-	0.114	102	1.30
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	60.5	-	1.77	98.4	-0.55
Chloride	mg/l	20.8 ± 0.333	20.6	-	0.71	99.1	-0.28
DOC (as C)	mg/l	2.99 ± 0.0861	2.97	-	0.149	99.4	-0.13
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.558	-	0.0549	106	0.55
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	2.15	-	0.0824	101	0.17
El. conductivity (25°C)	µS/c	453 ± 3.01	440	-	6.58	97.1	-1.97
Magnesium	mg/l	12.9 ± 0.23	12.6	-	0.46	97.4	-0.72

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.8	-	0.382	101	0.22
Total nitrogen	mg/l	2.96 ± 0.16	2.92	-	0.245	98.5	-0.18
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.121	-	0.0103	89.7	-1.36
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.169	-	0.00823	100	0.03
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.9	-	0.468	101	0.31
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.221	-	0.00834	106	1.55
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23	-	0.837	99.9	-0.03



The following results were achieved:

Sample: N140A

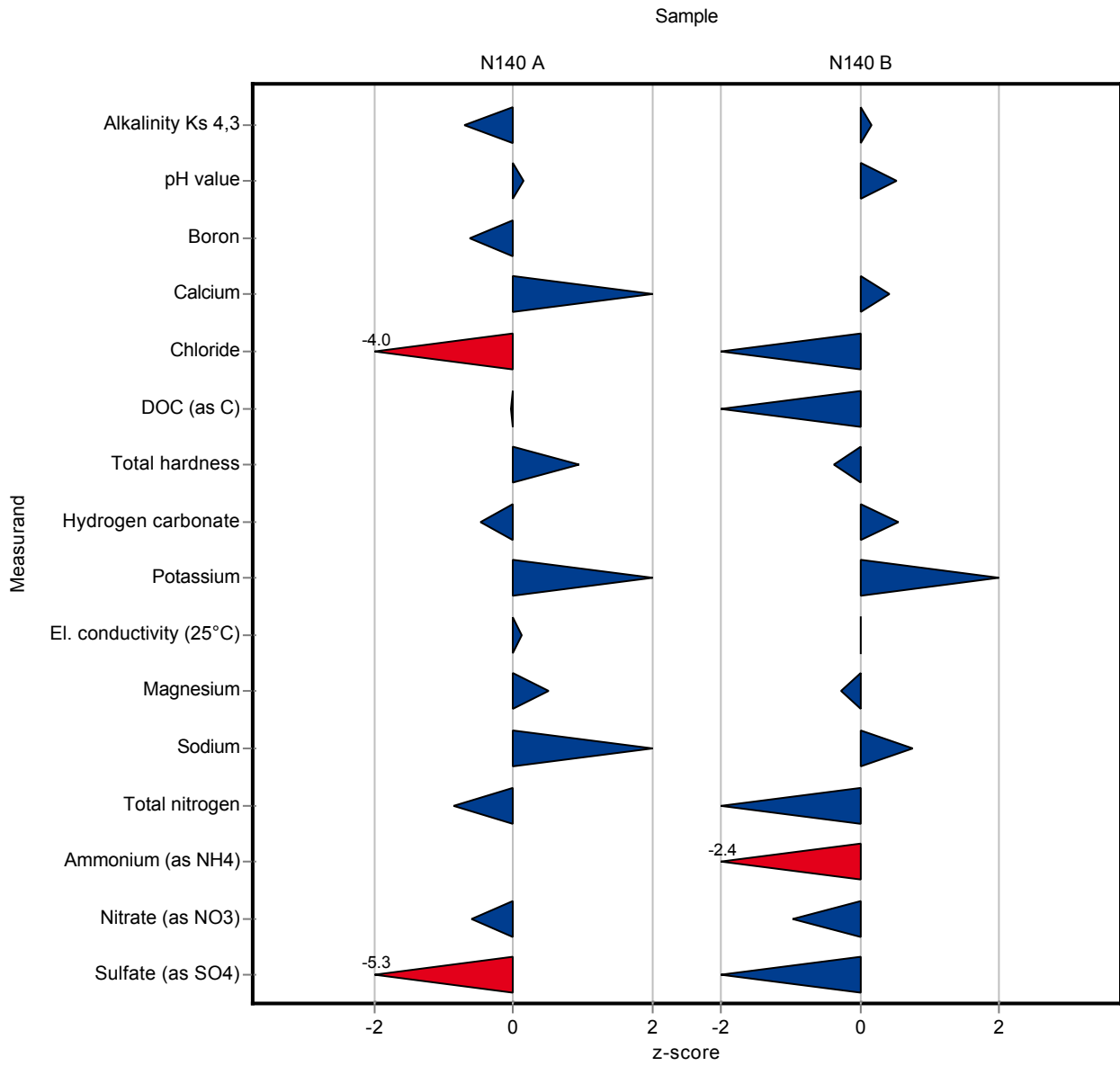
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.5	0.1	0.106	99	-0.71
pH value	-	7.67 ± 0.0656	7.69	0.15	0.142	100	0.15
Boron	mg/l	0.128 ± 0.00389	0.125	0.012	0.00535	97.4	-0.62
Calcium	mg/l	149 ± 2.47	155	5	5.01	104	1.29
Chloride	mg/l	121 ± 1.83	105	6.2	3.9	86.9	-4.04
DOC (as C)	mg/l	1.19 ± 0.0672	1.19	0.05	0.116	99.7	-0.03
Total-P (as PO4)	mg/l	0.034 ± 0.00767	<0.9 (LOQ)	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	36.9	1.5	0.859	102	0.94
Hydrogen carbonate	mg/l	461 ± 2.87	458	6.1	6.45	99.4	-0.46
Potassium	mg/l	5.33 ± 0.136	5.6	0.24	0.26	105	1.06
El. conductivity (25°C)	µS/c	1350 ± 9.38	1354	19	20	100	0.14
Magnesium	mg/l	65.1 ± 0.886	66	3.9	1.72	101	0.50
Sodium	mg/l	44.1 ± 0.78	46.2	2.3	1.47	105	1.43
Total nitrogen	mg/l	11.3 ± 0.423	10.8	0.5	0.646	95.2	-0.85
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.02 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.2 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	47.8	2.4	1.65	97.9	-0.61
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	<1 (LOQ)	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	130	4.1	3.96	86.1	-5.29

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.55	0.05	0.0496	100	0.15
pH value	-	8.13 ± 0.0535	8.19	0.16	0.114	101	0.51
Boron	mg/l	0.0148 ± 0.00184	<0.03 (LOQ)	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	62.2	2	1.77	101	0.41
Chloride	mg/l	20.8 ± 0.333	19.6	1.2	0.71	94.3	-1.68
DOC (as C)	mg/l	2.99 ± 0.0861	2.78	0.11	0.149	93	-1.40
Total-P (as PO4)	mg/l	0.528 ± 0.0306	<0.9 (LOQ)	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	11.6	0.5	0.261	99.2	-0.38
Hydrogen carbonate	mg/l	215 ± 1.49	217	2.8	3.02	101	0.54
Potassium	mg/l	2.14 ± 0.0444	2.25	0.1	0.0824	105	1.38
El. conductivity (25°C)	µS/c	453 ± 3.01	453	6.3	6.58	100	0.01
Magnesium	mg/l	12.9 ± 0.23	12.8	0.75	0.46	99	-0.29

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	13	0.65	0.382	102	0.75
Total nitrogen	mg/l	2.96 ± 0.16	2.64	0.13	0.245	89.1	-1.32
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.11	0.011	0.0103	81.5	-2.43
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	<0.2 (LOQ)	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.3	0.56	0.468	96.1	-0.97
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	<1 (LOQ)	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	21.8	0.68	0.837	94.7	-1.47



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.58	0.08	0.106	100	0.04
pH value	-	7.67 ± 0.0656	7.6	0.2	0.142	99.1	-0.49
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	121	1.81	3.9	100	0.05
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	36.1	2.7	0.859	100	0.01
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	1336	11	20	98.9	-0.76
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.5 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	46.8	-	1.65	95.9	-1.21
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

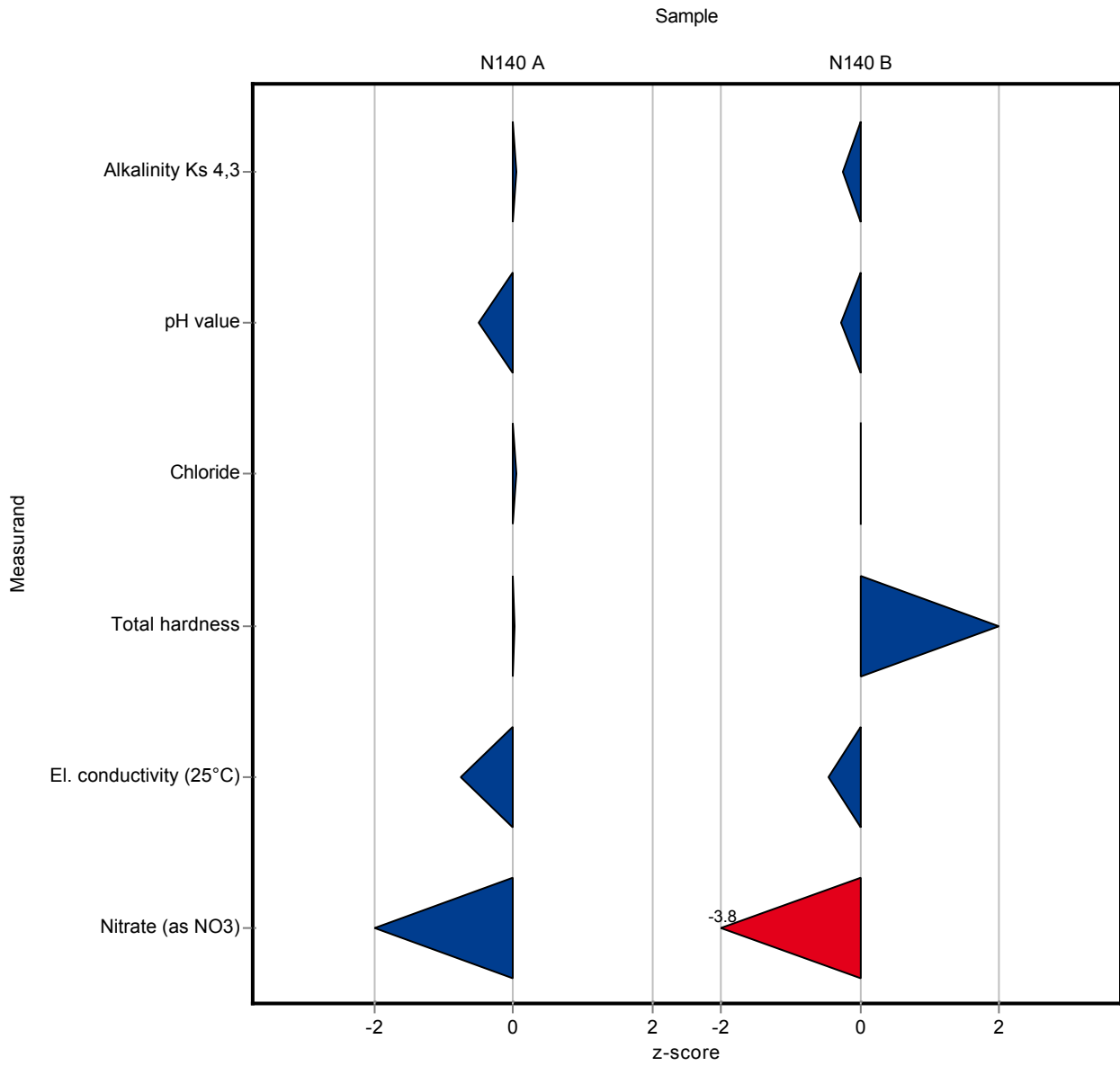
\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.53	0.05	0.0496	99.6	-0.26
pH value	-	8.13 ± 0.0535	8.1	0.2	0.114	99.6	-0.28
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	20.8	1.65	0.71	100	0.01
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	12.1	2.7	0.261	103	1.54
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	450	11	6.58	99.3	-0.45
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-



Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	<0.5 (LOQ)	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	10	-	0.468	85.1	-3.75
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-



The following results were achieved:

Sample: N140A

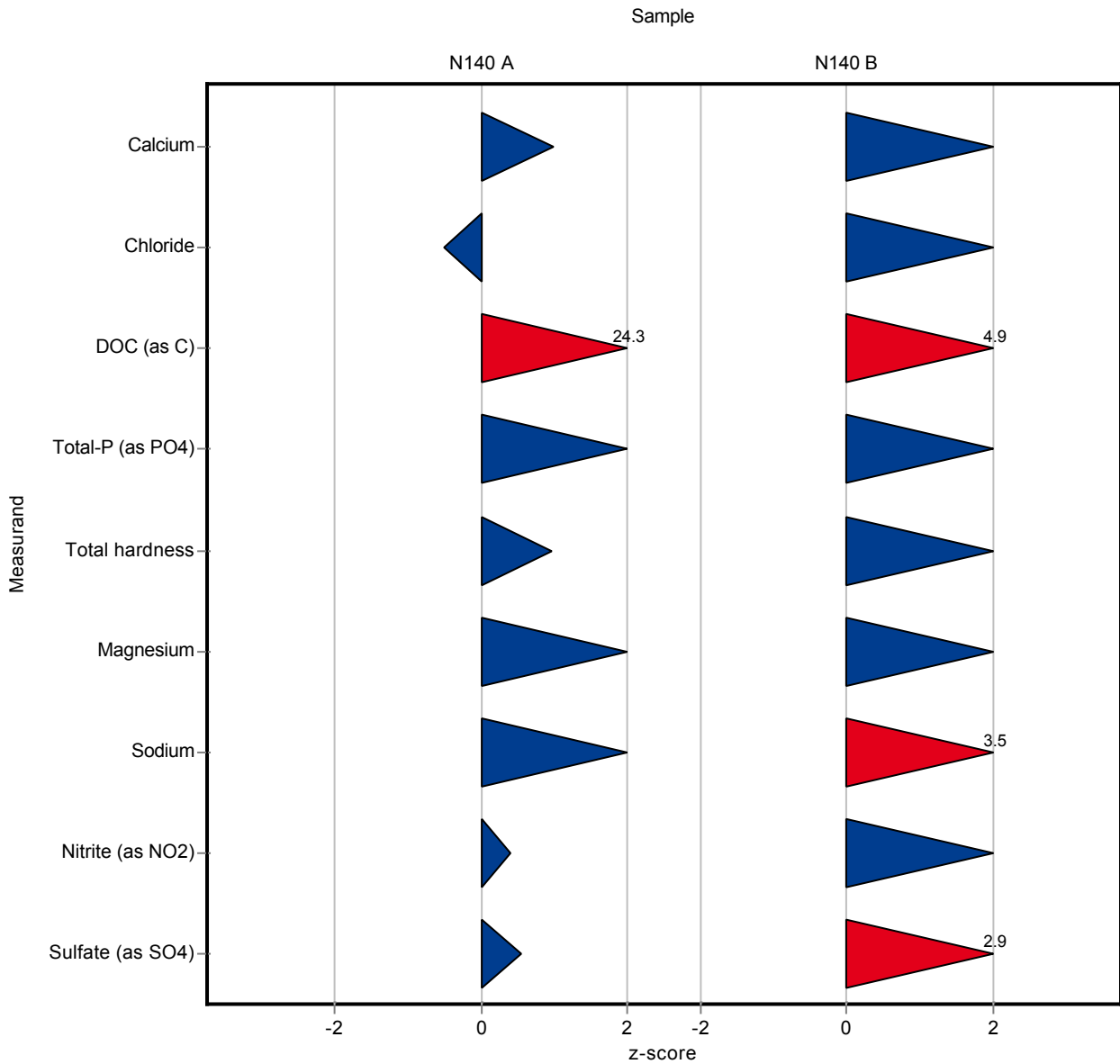
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	-	-	0.142	-	-
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	153.4739	0.013	5.01	103	0.99
Chloride	mg/l	121 ± 1.83	118.7606	0.0094	3.9	98.3	-0.52
DOC (as C)	mg/l	1.19 ± 0.0672	4.02	0.0382	0.116	337	24.30
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.056	0.0519	0.0125	165	1.76
Total hardness	°d	36.1 ± 0.463	36.9211	0.0001	0.859	102	0.97
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	-	-	20	-	-
Magnesium	mg/l	65.1 ± 0.886	67.1078	0.0309	1.72	103	1.14
Sodium	mg/l	44.1 ± 0.78	46.7139	0.0428	1.47	106	1.78
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.0053	0.0002	0.00102	109	0.41
Nitrate (as NO3)	mg/l	48.8 ± 0.756	-	-	1.65	-	-
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	153.1083	0.009	3.96	101	0.55

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	-	-	0.114	-	-
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	63.8651	0.0103	1.77	104	1.35
Chloride	mg/l	20.8 ± 0.333	21.9245	0.1192	0.71	105	1.59
DOC (as C)	mg/l	2.99 ± 0.0861	3.7227	0.1485	0.149	125	4.92
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.6316	0.1066	0.0549	120	1.89
Total hardness	°d	11.7 ± 0.143	12.0862	0.0001	0.261	103	1.49
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	-	-	6.58	-	-
Magnesium	mg/l	12.9 ± 0.23	13.6738	0.0663	0.46	106	1.61

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	14.0649	0.0591	0.382	111	3.53
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.1775	0.0563	0.00823	105	1.07
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	-	-	0.468	-	-
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	25.4513	0.0044	0.837	111	2.90



The following results were achieved:

Sample: N140A

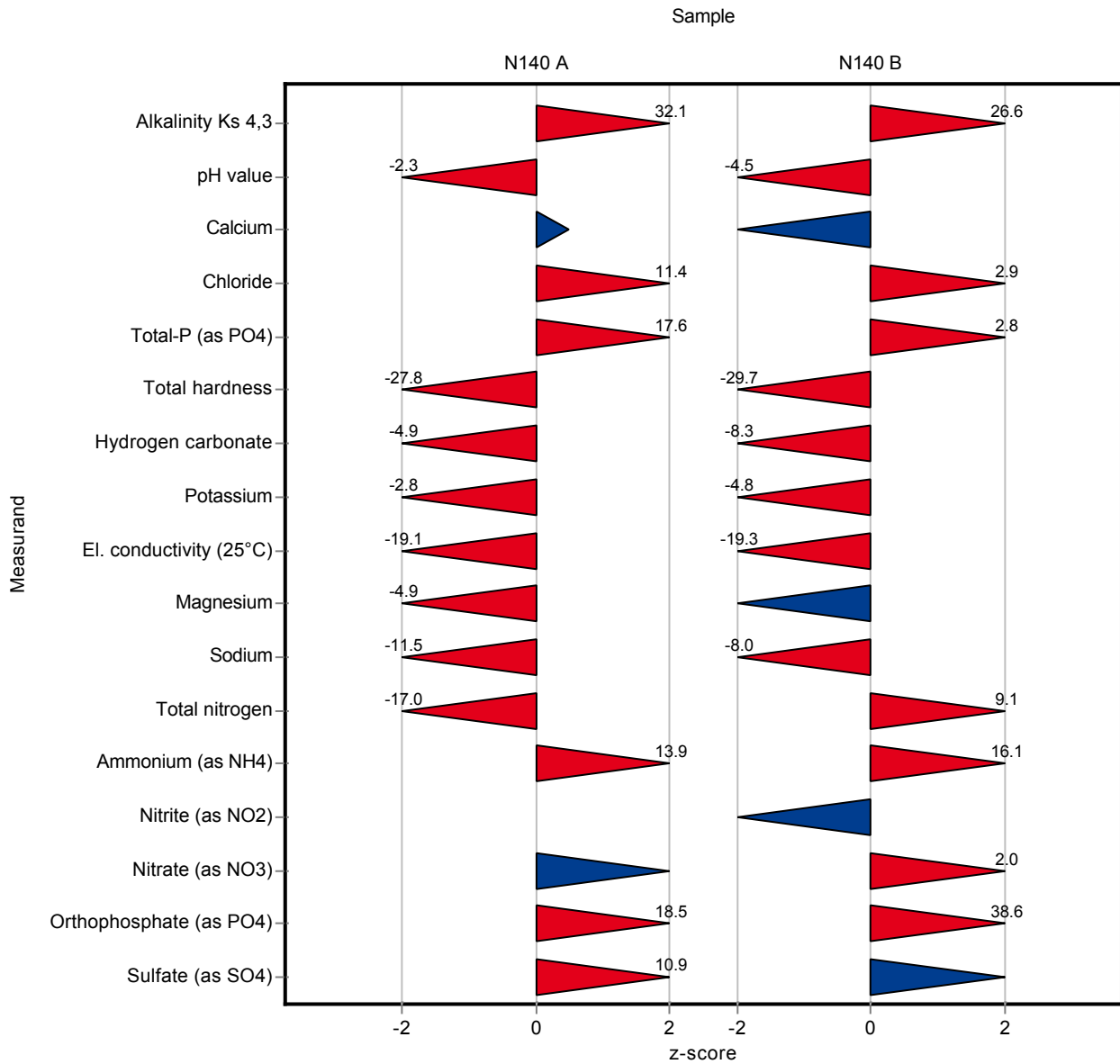
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	10.98	1.1	0.106	145	32.10
pH value	-	7.67 ± 0.0656	7.34	0.37	0.142	95.7	-2.32
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	150.94	30.19	5.01	102	0.48
Chloride	mg/l	121 ± 1.83	165.444	23.2	3.9	137	11.40
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.255	0.055	0.0125	750	17.60
Total hardness	°d	36.1 ± 0.463	12.19	2.19	0.859	33.8	-27.80
Hydrogen carbonate	mg/l	461 ± 2.87	429.44	81.6	6.45	93.2	-4.89
Potassium	mg/l	5.33 ± 0.136	4.61	0.41	0.26	86.6	-2.76
El. conductivity (25°C)	µS/c	1350 ± 9.38	968	77.4	20	71.6	-19.10
Magnesium	mg/l	65.1 ± 0.886	56.65	11.3	1.72	87	-4.93
Sodium	mg/l	44.1 ± 0.78	27.24	2.45	1.47	61.8	-11.50
Total nitrogen	mg/l	11.3 ± 0.423	0.37	0.074	0.646	3.26	-17.00
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	0.27	0.036	0.0181	1510	13.90
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	50.557	7.08	1.65	104	1.06
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.105	0.015	0.00413	368	18.50
Sulfate (as SO4)	mg/l	151 ± 2.01	193.944	27.2	3.96	128	10.90

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	4.86	0.49	0.0496	137	26.60
pH value	-	8.13 ± 0.0535	7.62	0.38	0.114	93.7	-4.48
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	58.25	11.7	1.77	94.8	-1.82
Chloride	mg/l	20.8 ± 0.333	22.858	3.2	0.71	110	2.91
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.68	0.15	0.0549	129	2.77
Total hardness	°d	11.7 ± 0.143	3.96	0.713	0.261	33.9	-29.70
Hydrogen carbonate	mg/l	215 ± 1.49	190.32	36.2	3.02	88.4	-8.31
Potassium	mg/l	2.14 ± 0.0444	1.74	0.16	0.0824	81.4	-4.81
El. conductivity (25°C)	µS/c	453 ± 3.01	326	26.1	6.58	72	-19.30
Magnesium	mg/l	12.9 ± 0.23	12.4	2.5	0.46	95.9	-1.16

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	9.65	0.89	0.382	75.9	-8.02
Total nitrogen	mg/l	2.96 ± 0.16	5.2	1.04	0.245	175	9.14
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.3	0.04	0.0103	222	16.10
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.157	0.022	0.00823	93.1	-1.42
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.694	1.8	0.468	108	2.01
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.53	0.074	0.00834	255	38.60
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.918	3.3	0.837	104	1.06





The following results were achieved:

Sample: N140A

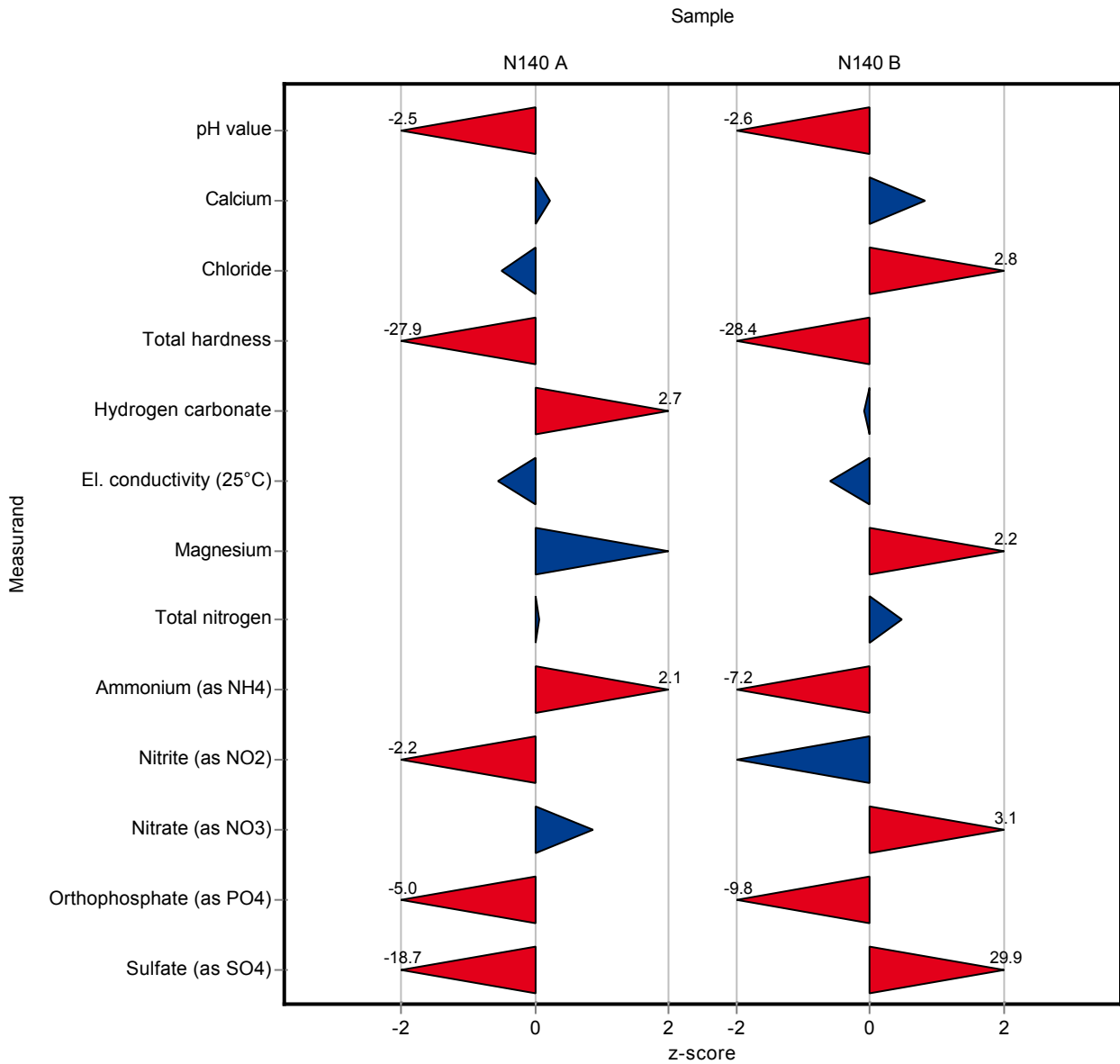
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	7.32	0.073	0.142	95.4	-2.46
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	149.57	22.4	5.01	101	0.21
Chloride	mg/l	121 ± 1.83	118.8472	11.88	3.9	98.4	-0.50
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	12.122	1.82	0.859	33.6	-27.90
Hydrogen carbonate	mg/l	461 ± 2.87	478.39	47.8	6.45	104	2.70
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	1340	67	20	99.2	-0.56
Magnesium	mg/l	65.1 ± 0.886	66.9095	10	1.72	103	1.03
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	11.3874	-	0.646	100	0.06
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	0.05565	0.0056	0.0181	310	2.08
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.0026	0.0001	0.00102	53.3	-2.23
Nitrate (as NO3)	mg/l	48.8 ± 0.756	50.213	5.02	1.65	103	0.85
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.0077	0.0008	0.00413	27	-5.04
Sulfate (as SO4)	mg/l	151 ± 2.01	76.848	11.53	3.96	50.9	-18.70

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	7.833	0.078	0.114	96.3	-2.62
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	62.92	9.44	1.77	102	0.82
Chloride	mg/l	20.8 ± 0.333	22.788	2.28	0.71	110	2.81
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	4.3063	0.646	0.261	36.8	-28.40
Hydrogen carbonate	mg/l	215 ± 1.49	215.095	21.5	3.02	99.9	-0.10
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	449	22.4	6.58	99.1	-0.60
Magnesium	mg/l	12.9 ± 0.23	13.9387	2.09	0.46	108	2.19

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	3.0826	-	0.245	104	0.49
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.061	0.006	0.0103	45.2	-7.21
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.1533	0.008	0.00823	90.9	-1.87
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	13.229	1.32	0.468	113	3.15
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.1264	0.013	0.00834	60.7	-9.79
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	48.03	7.2	0.837	209	29.90



The following results were achieved:

Sample: N140A

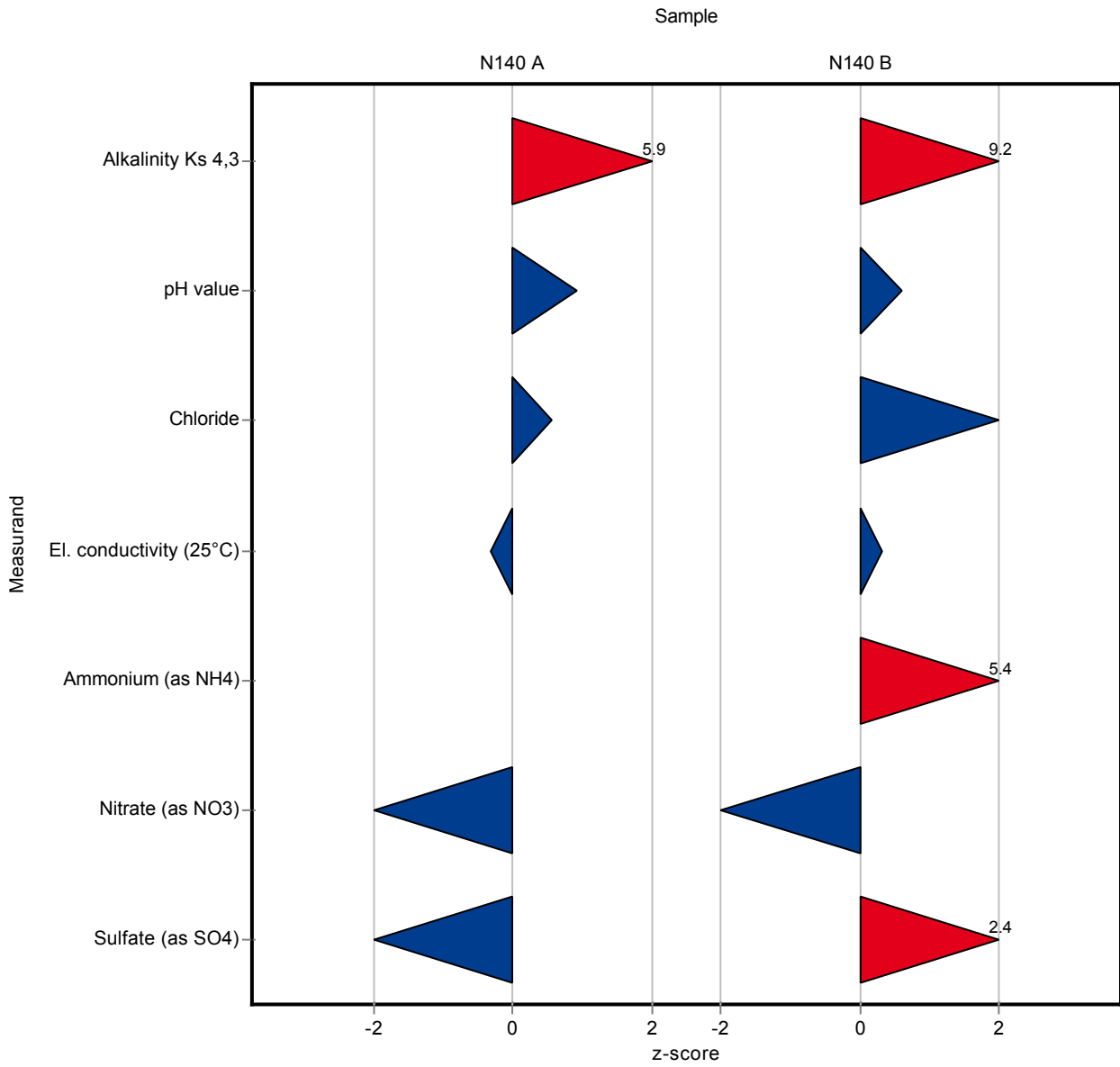
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	8.2	-	0.106	108	5.89
pH value	-	7.67 ± 0.0656	7.8	-	0.142	102	0.92
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	123	-	3.9	102	0.57
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	<0.05 (LOQ)	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	1345	-	20	99.5	-0.31
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.1 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	47	-	1.65	96.3	-1.09
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	145	-	3.96	96.1	-1.50

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	4	-	0.0496	113	9.22
pH value	-	8.13 ± 0.0535	8.2	-	0.114	101	0.60
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	22	-	0.71	106	1.70
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	<0.21 (LOQ)	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	455	-	6.58	100	0.31
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.19	-	0.0103	141	5.37
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11	-	0.468	93.6	-1.62
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	25	-	0.837	109	2.36



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.54	0.2	0.106	99.5	-0.33
pH value	-	7.67 ± 0.0656	7.5	0.6	0.142	97.8	-1.19
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	147.01	5.29	5.01	99	-0.30
Chloride	mg/l	121 ± 1.83	121.63	10.7	3.9	101	0.22
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.199	0.1	0.0125	585	13.20
Total hardness	°d	36.1 ± 0.463	35.84	3.51	0.859	99.3	-0.29
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	5.23	0.46	0.26	98.2	-0.37
El. conductivity (25°C)	µS/c	1350 ± 9.38	1371	202.9	20	101	0.98
Magnesium	mg/l	65.1 ± 0.886	65.72	4.08	1.72	101	0.34
Sodium	mg/l	44.1 ± 0.78	43.9	3.07	1.47	99.5	-0.14
Total nitrogen	mg/l	11.3 ± 0.423	13.7	2.16	0.646	121	3.64
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	53.12	7.81	1.65	109	2.61
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.022	0.001	0.00413	77.1	-1.58
Sulfate (as SO4)	mg/l	151 ± 2.01	155.53	18.5	3.96	103	1.16

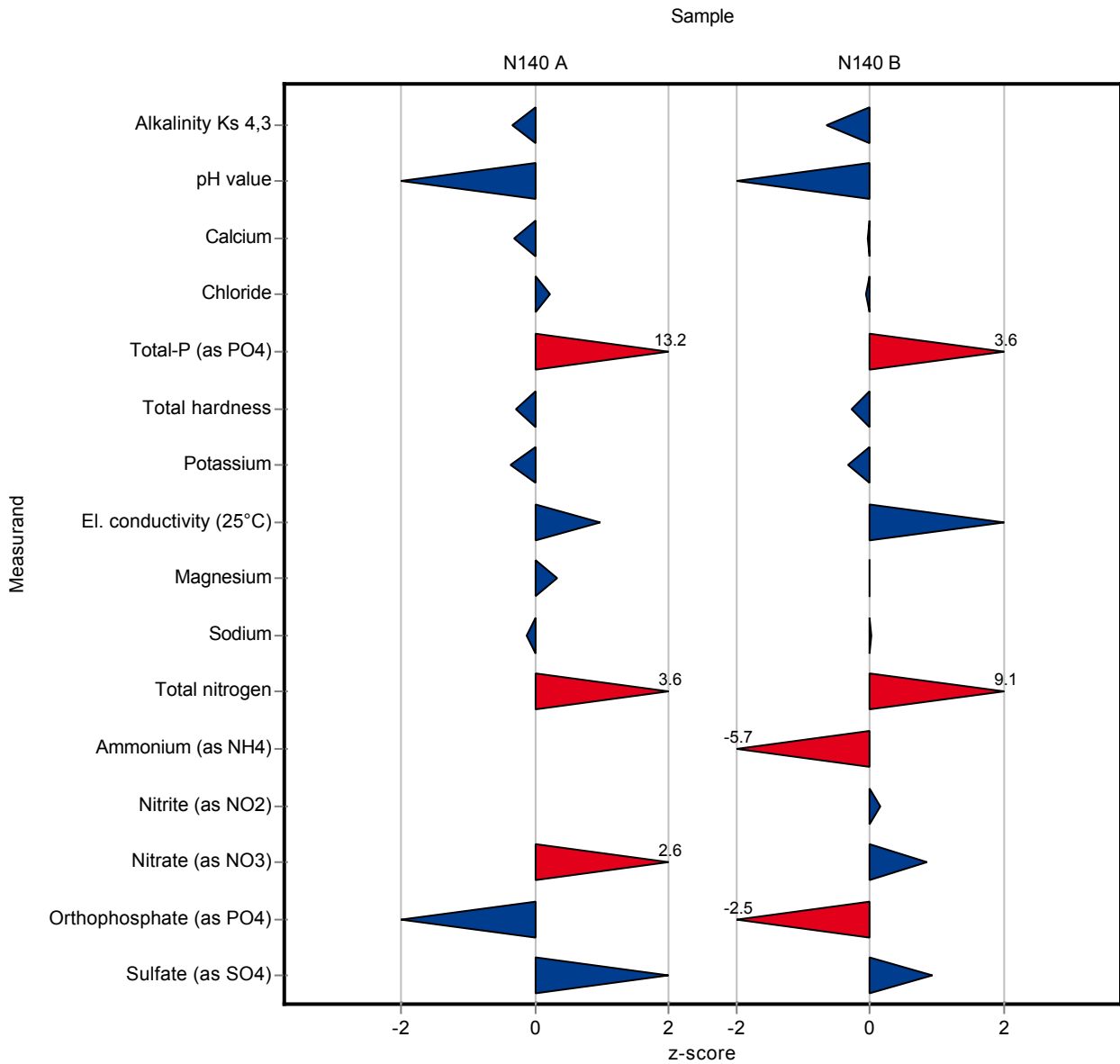
\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.51	0.07	0.0496	99.1	-0.66
pH value	-	8.13 ± 0.0535	8	0.6	0.114	98.4	-1.15
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	61.42	2.21	1.77	99.9	-0.03
Chloride	mg/l	20.8 ± 0.333	20.75	1.826	0.71	99.8	-0.06
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.725	0.021	0.0549	137	3.59
Total hardness	°d	11.7 ± 0.143	11.63	1.14	0.261	99.4	-0.26
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	2.11	0.18	0.0824	98.8	-0.32
El. conductivity (25°C)	µS/c	453 ± 3.01	460	68.1	6.58	102	1.07
Magnesium	mg/l	12.9 ± 0.23	12.93	0.8	0.46	100	-0.01

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.72	0.89	0.382	100	0.01
Total nitrogen	mg/l	2.96 ± 0.16	5.2	0.43	0.245	175	9.14
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.076	0.024	0.0103	56.3	-5.75
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.17	0.049	0.00823	101	0.16
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.15	1.786	0.468	103	0.84
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.187	0.004	0.00834	89.9	-2.53
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.82	4.407	0.837	103	0.95





The following results were achieved:

Sample: N140A

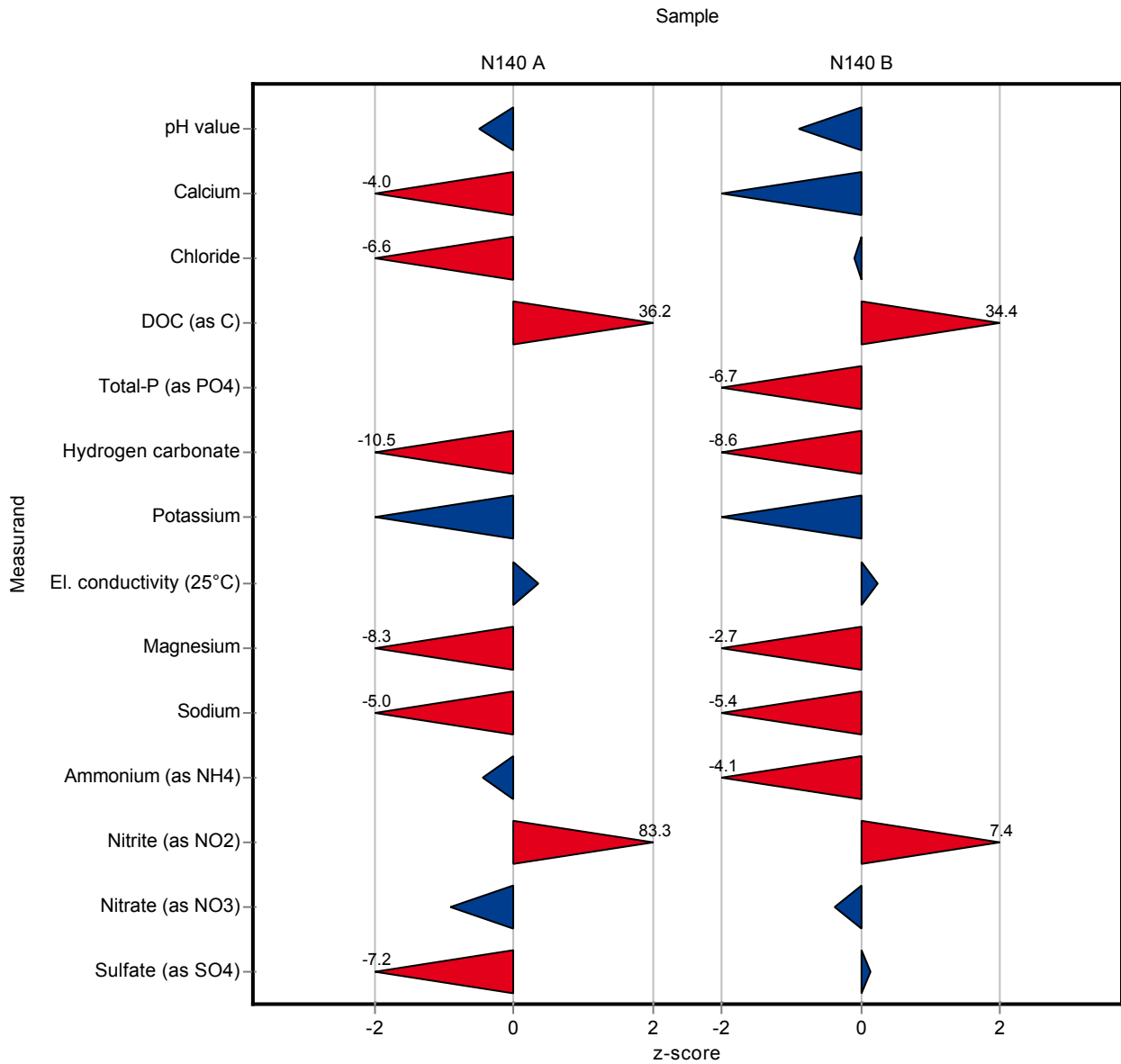
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	7.6	0.01	0.142	99.1	-0.49
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	128.3	1.7	5.01	86.4	-4.04
Chloride	mg/l	121 ± 1.83	95.11	0.91	3.9	78.7	-6.58
DOC (as C)	mg/l	1.19 ± 0.0672	5.41	0.81	0.116	453	36.20
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	393.35	2.54	6.45	85.3	-10.50
Potassium	mg/l	5.33 ± 0.136	4.97	0.03	0.26	93.3	-1.37
El. conductivity (25°C)	µS/c	1350 ± 9.38	1358.5	0.71	20	101	0.36
Magnesium	mg/l	65.1 ± 0.886	50.83	1.28	1.72	78	-8.31
Sodium	mg/l	44.1 ± 0.78	36.79	0.15	1.47	83.4	-4.97
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	0.01	0.006	0.0181	55.8	-0.44
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.09	-	0.00102	1840	83.30
Nitrate (as NO3)	mg/l	48.8 ± 0.756	47.31	0.7	1.65	96.9	-0.90
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	122.6	0.81	3.96	81.2	-7.16

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	8.03	0.01	0.114	98.7	-0.89
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	58.58	0.82	1.77	95.3	-1.63
Chloride	mg/l	20.8 ± 0.333	20.73	0.15	0.71	99.7	-0.09
DOC (as C)	mg/l	2.99 ± 0.0861	8.12	0.55	0.149	272	34.40
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.16	0.01	0.0549	30.3	-6.70
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	189.3	0.77	3.02	87.9	-8.65
Potassium	mg/l	2.14 ± 0.0444	1.99	0.05	0.0824	93.1	-1.78
El. conductivity (25°C)	µS/c	453 ± 3.01	454.5	0.71	6.58	100	0.23
Magnesium	mg/l	12.9 ± 0.23	11.71	0.17	0.46	90.5	-2.66

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	10.66	0.11	0.382	83.8	-5.38
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.093	0.006	0.0103	68.9	-4.09
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.23	0.01	0.00823	136	7.44
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.58	0.16	0.468	98.5	-0.38
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.13	0.1	0.837	100	0.12



The following results were achieved:

Sample: N140A

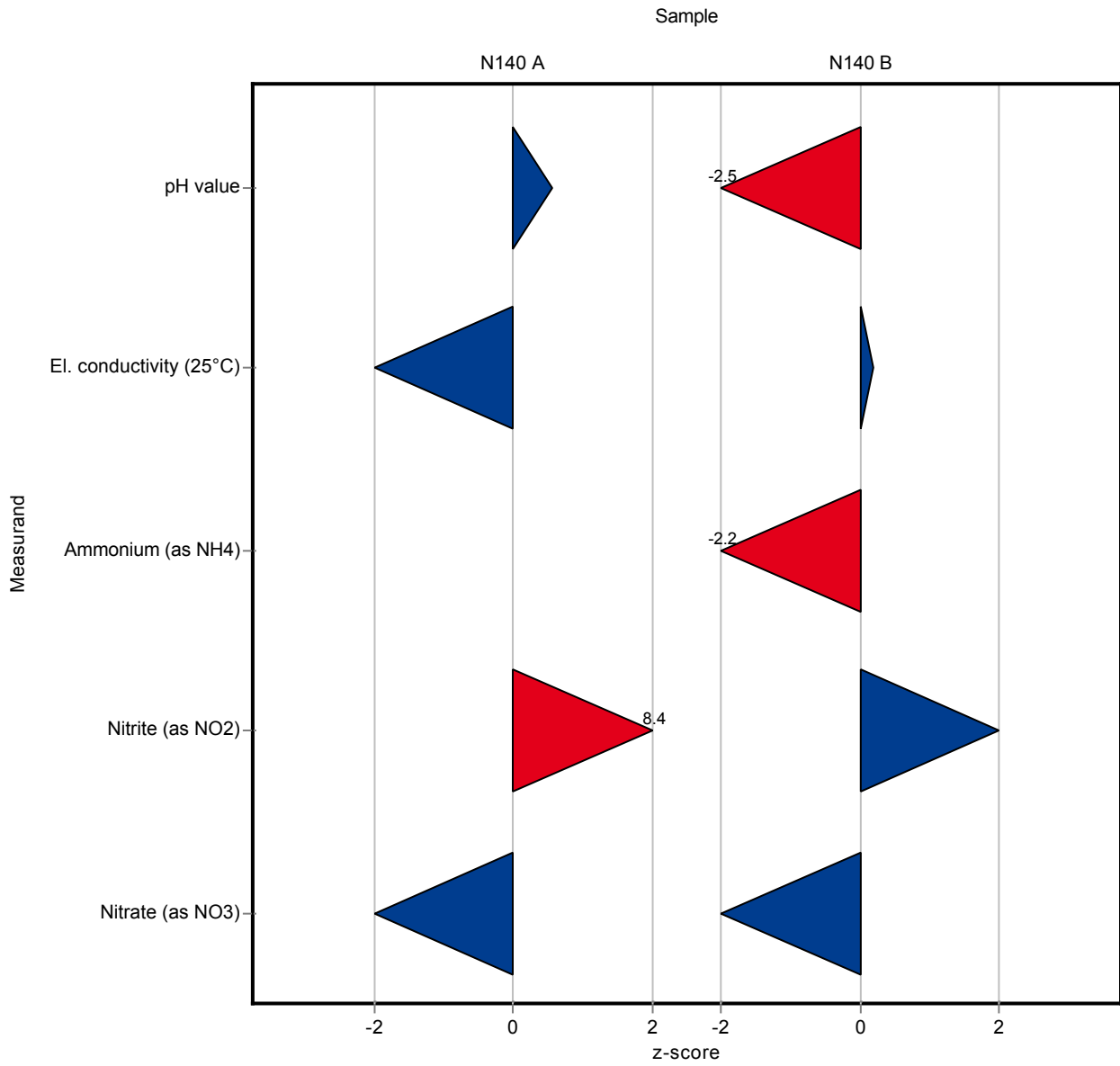
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	7.75	0.062	0.142	101	0.57
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	-	-	3.9	-	-
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	1315.5	6.3	20	97.4	-1.79
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.065	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.0135	0.02	0.00102	277	8.44
Nitrate (as NO3)	mg/l	48.8 ± 0.756	46	0.1	1.65	94.3	-1.69
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	7.85	0.062	0.114	96.5	-2.47
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	-	-	0.71	-	-
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	454.25	6.3	6.58	100	0.20
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.112	0.02	0.0103	83	-2.24
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.184	0.02	0.00823	109	1.86
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.1	0.1	0.468	94.4	-1.40
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.29	0.73	0.106	96.2	-2.69
pH value	-	7.67 ± 0.0656	7.63	0.23	0.142	99.5	-0.28
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	153	15.3	5.01	103	0.89
Chloride	mg/l	121 ± 1.83	118	11.8	3.9	97.7	-0.71
DOC (as C)	mg/l	1.19 ± 0.0672	1.44	0.19	0.116	121	2.11
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	5.56	0.56	0.26	104	0.90
El. conductivity (25°C)	µS/c	1350 ± 9.38	1360	68	20	101	0.43
Magnesium	mg/l	65.1 ± 0.886	65.8	10.5	1.72	101	0.38
Sodium	mg/l	44.1 ± 0.78	44.8	5.82	1.47	102	0.47
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.2 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	48.8	4.88	1.65	100	0.00
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	152	15.2	3.96	101	0.27

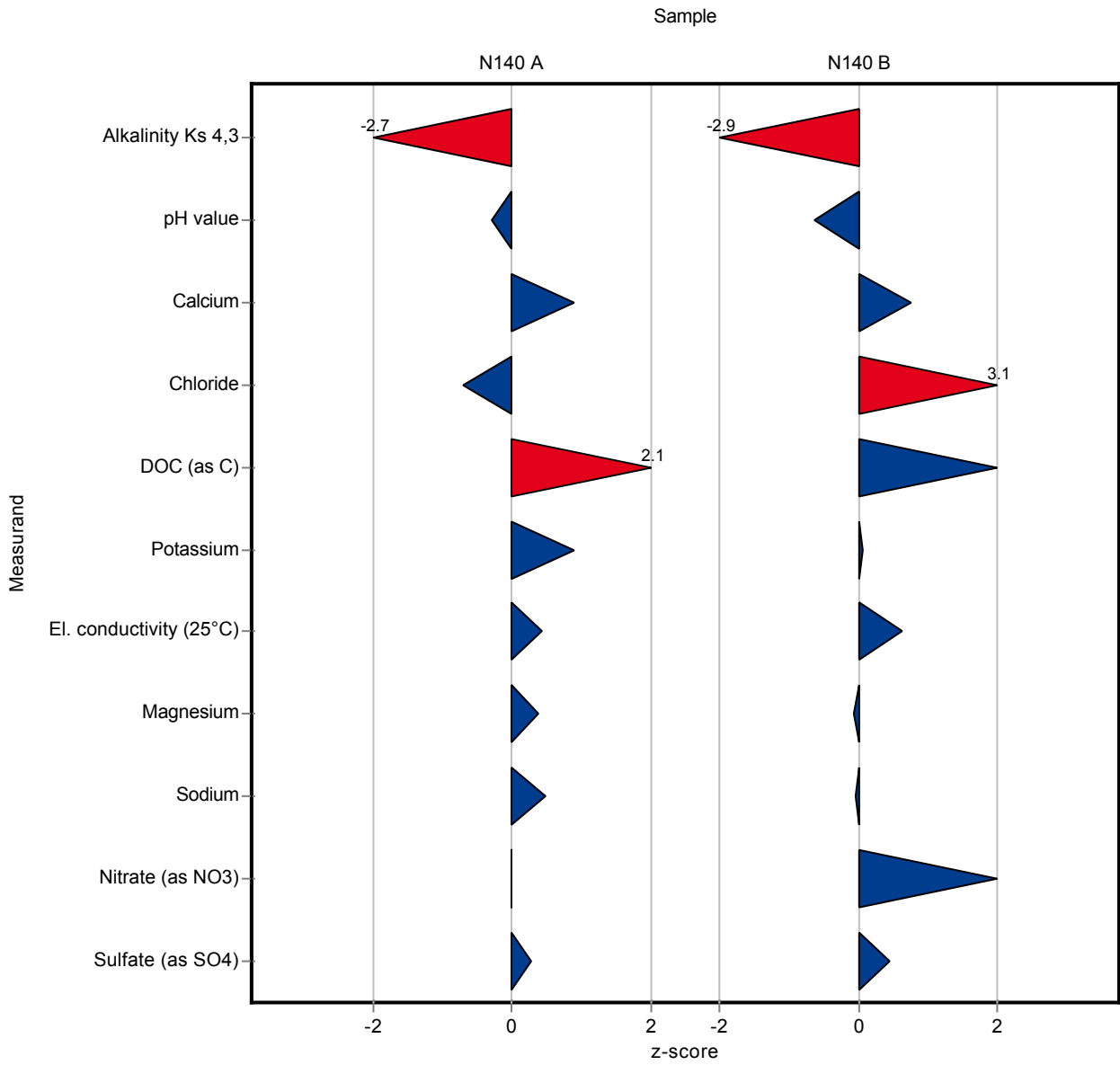
\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.4	0.34	0.0496	96	-2.88
pH value	-	8.13 ± 0.0535	8.06	0.24	0.114	99.1	-0.63
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	62.8	6.28	1.77	102	0.75
Chloride	mg/l	20.8 ± 0.333	23	2.3	0.71	111	3.11
DOC (as C)	mg/l	2.99 ± 0.0861	3.24	0.42	0.149	108	1.68
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	2.14	0.21	0.0824	100	0.04
El. conductivity (25°C)	µS/c	453 ± 3.01	457	23	6.58	101	0.61
Magnesium	mg/l	12.9 ± 0.23	12.9	2.06	0.46	99.7	-0.07



Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.7	1.65	0.382	99.9	-0.04
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	<0.2 (LOQ)	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.3	1.23	0.468	105	1.16
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.4	2.34	0.837	102	0.44



The following results were achieved:

**Sample: N140A**

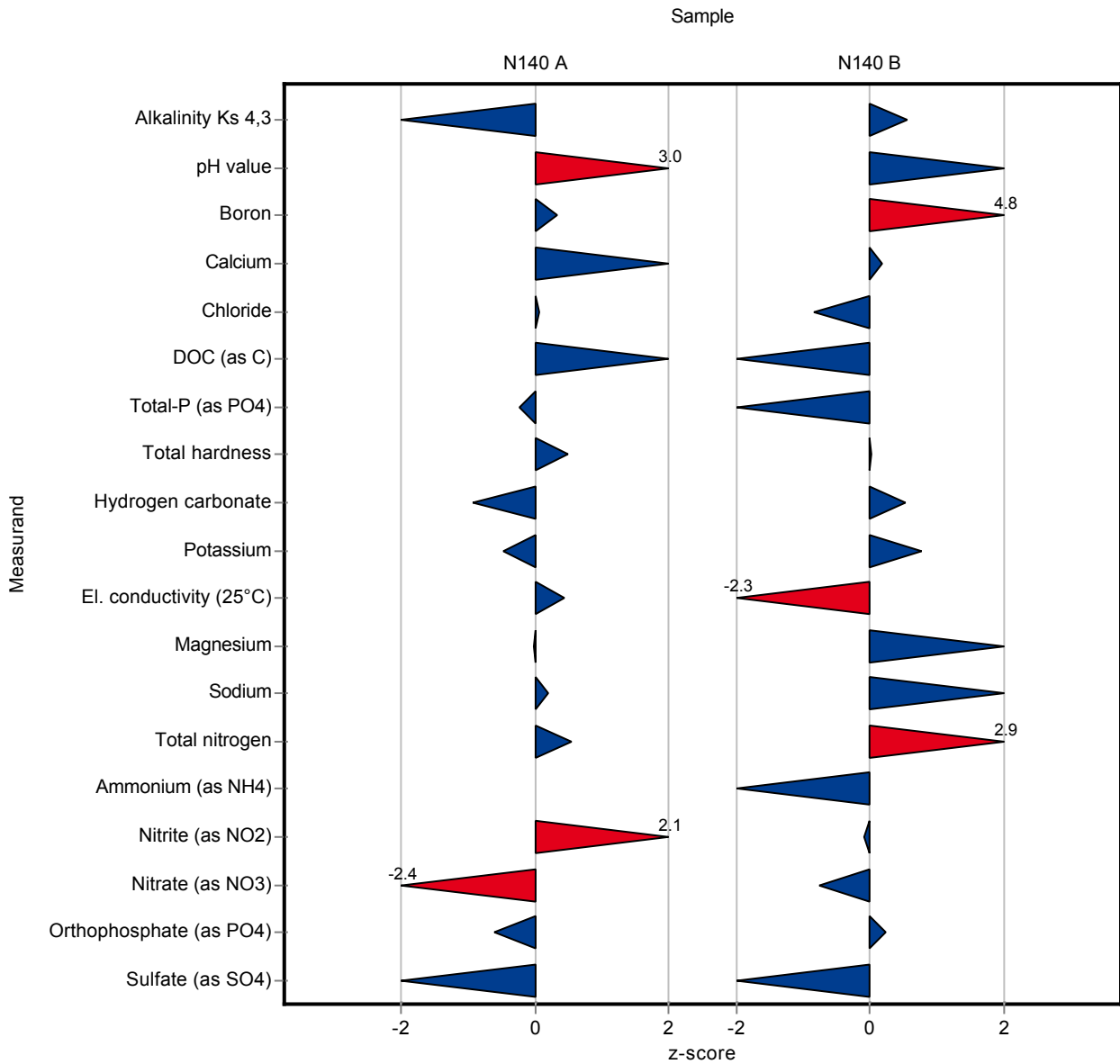
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.46	1.49	0.106	98.5	-1.09
pH value	-	7.67 ± 0.0656	8.1	0.2	0.142	106	3.04
Boron	mg/l	0.128 ± 0.00389	0.13	-	0.00535	101	0.32
Calcium	mg/l	149 ± 2.47	154	-	5.01	104	1.09
Chloride	mg/l	121 ± 1.83	121	18	3.9	100	0.05
DOC (as C)	mg/l	1.19 ± 0.0672	1.33	0.3	0.116	111	1.17
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.031	-	0.0125	91.2	-0.24
Total hardness	°d	36.1 ± 0.463	36.5	-	0.859	101	0.48
Hydrogen carbonate	mg/l	461 ± 2.87	455	91	6.45	98.7	-0.93
Potassium	mg/l	5.33 ± 0.136	5.2	-	0.26	97.6	-0.49
El. conductivity (25°C)	µS/c	1350 ± 9.38	1360	109	20	101	0.43
Magnesium	mg/l	65.1 ± 0.886	65.1	-	1.72	99.9	-0.02
Sodium	mg/l	44.1 ± 0.78	44.4	-	1.47	101	0.20
Total nitrogen	mg/l	11.3 ± 0.423	11.7	-	0.646	103	0.54
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.005	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.007	-	0.00102	143	2.08
Nitrate (as NO3)	mg/l	48.8 ± 0.756	44.8	-	1.65	91.8	-2.42
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.026	-	0.00413	91.1	-0.61
Sulfate (as SO4)	mg/l	151 ± 2.01	144	22	3.96	95.4	-1.75

\*see '4 Explanatory notes' for further detail

**Sample: N140B**

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.57	0.71	0.0496	101	0.55
pH value	-	8.13 ± 0.0535	8.26	0.2	0.114	102	1.12
Boron	mg/l	0.0148 ± 0.00184	0.025	-	0.00213	169	4.78
Calcium	mg/l	61.5 ± 0.874	61.8	-	1.77	101	0.18
Chloride	mg/l	20.8 ± 0.333	20.2	3	0.71	97.1	-0.84
DOC (as C)	mg/l	2.99 ± 0.0861	2.81	0.7	0.149	94	-1.20
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.435	-	0.0549	82.4	-1.69
Total hardness	°d	11.7 ± 0.143	11.7	-	0.261	100	0.01
Hydrogen carbonate	mg/l	215 ± 1.49	217	43.5	3.02	101	0.54
Potassium	mg/l	2.14 ± 0.0444	2.2	-	0.0824	103	0.77
El. conductivity (25°C)	µS/c	453 ± 3.01	438	35	6.58	96.7	-2.27
Magnesium	mg/l	12.9 ± 0.23	13.4	-	0.46	104	1.02

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	13.3	-	0.382	105	1.53
Total nitrogen	mg/l	2.96 ± 0.16	3.68	-	0.245	124	2.93
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.123	-	0.0103	91.1	-1.17
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.168	-	0.00823	99.6	-0.09
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.4	-	0.468	97	-0.76
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.21	-	0.00834	101	0.23
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	21.4	3.2	0.837	92.9	-1.95



The following results were achieved:

Sample: N140A

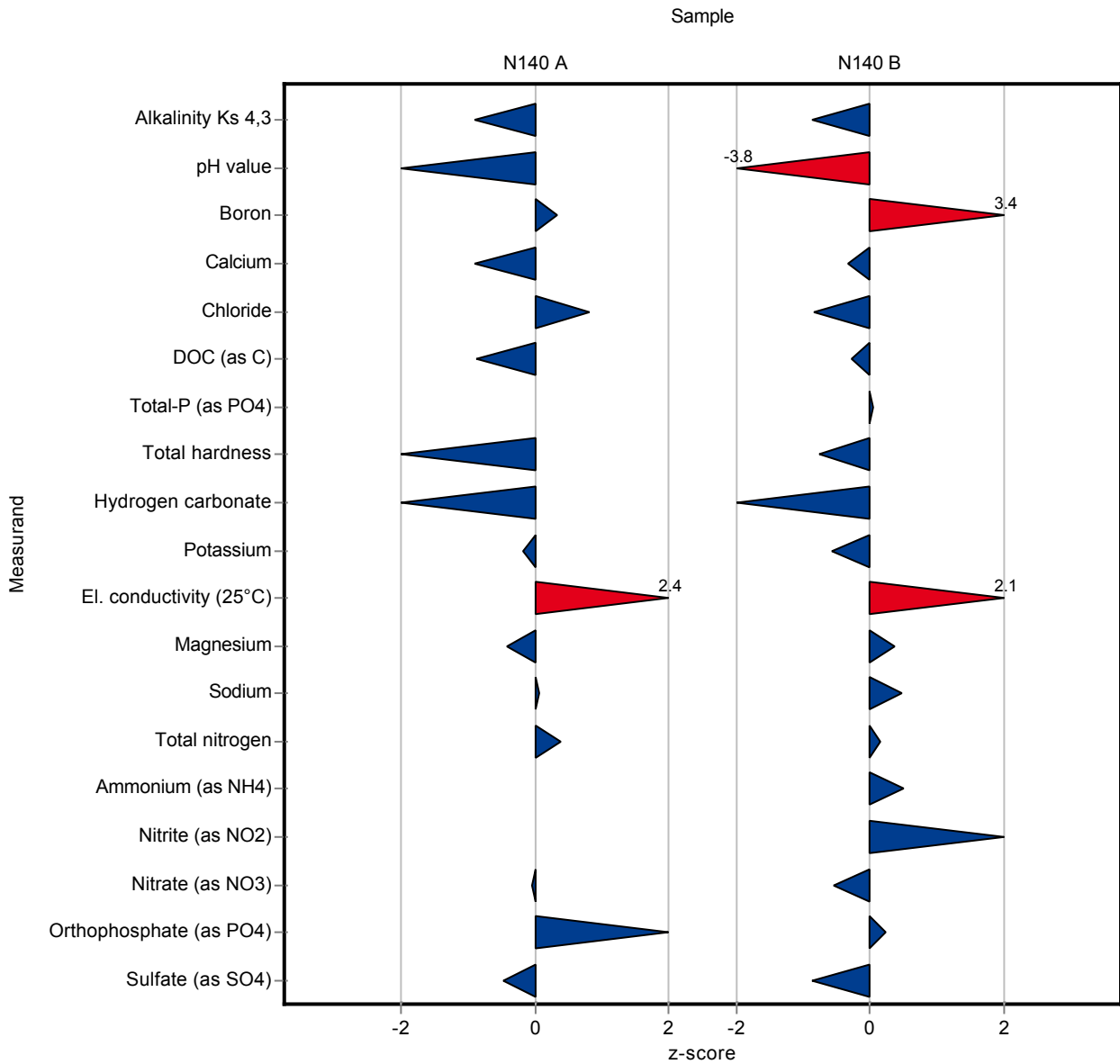
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.48	0.35	0.106	98.7	-0.90
pH value	-	7.67 ± 0.0656	7.5	-	0.142	97.8	-1.19
Boron	mg/l	0.128 ± 0.00389	0.13	0.01	0.00535	101	0.32
Calcium	mg/l	149 ± 2.47	144	14	5.01	96.9	-0.90
Chloride	mg/l	121 ± 1.83	124	12	3.9	103	0.82
DOC (as C)	mg/l	1.19 ± 0.0672	1.09	0.1	0.116	91.3	-0.89
Total-P (as PO4)	mg/l	0.034 ± 0.00767	<0.05 (LOQ)	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	35	3.5	0.859	97	-1.27
Hydrogen carbonate	mg/l	461 ± 2.87	453	23	6.45	98.3	-1.24
Potassium	mg/l	5.33 ± 0.136	5.28	0.5	0.26	99.1	-0.18
El. conductivity (25°C)	µS/c	1350 ± 9.38	1400	35	20	104	2.43
Magnesium	mg/l	65.1 ± 0.886	64.4	6	1.72	98.9	-0.43
Sodium	mg/l	44.1 ± 0.78	44.2	4	1.47	100	0.07
Total nitrogen	mg/l	11.3 ± 0.423	11.6	1	0.646	102	0.39
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.01 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.01 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	48.7	5	1.65	99.8	-0.06
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.035	0.003	0.00413	123	1.56
Sulfate (as SO4)	mg/l	151 ± 2.01	149	15	3.96	98.7	-0.49

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.5	0.18	0.0496	98.8	-0.86
pH value	-	8.13 ± 0.0535	7.7	-	0.114	94.7	-3.78
Boron	mg/l	0.0148 ± 0.00184	0.022	0.002	0.00213	148	3.37
Calcium	mg/l	61.5 ± 0.874	60.9	6	1.77	99.1	-0.32
Chloride	mg/l	20.8 ± 0.333	20.2	2	0.71	97.1	-0.84
DOC (as C)	mg/l	2.99 ± 0.0861	2.95	0.3	0.149	98.7	-0.26
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.53	0.05	0.0549	100	0.04
Total hardness	°d	11.7 ± 0.143	11.5	1.2	0.261	98.3	-0.76
Hydrogen carbonate	mg/l	215 ± 1.49	211	10	3.02	98	-1.45
Potassium	mg/l	2.14 ± 0.0444	2.09	0.2	0.0824	97.8	-0.56
El. conductivity (25°C)	µS/c	453 ± 3.01	467	12	6.58	103	2.13
Magnesium	mg/l	12.9 ± 0.23	13.1	1.3	0.46	101	0.36

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.9	1.3	0.382	101	0.48
Total nitrogen	mg/l	2.96 ± 0.16	3	0.3	0.245	101	0.15
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.14	0.014	0.0103	104	0.49
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.18	0.018	0.00823	107	1.37
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.5	1.2	0.468	97.8	-0.55
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.21	0.02	0.00834	101	0.23
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22.3	2.2	0.837	96.8	-0.87





The following results were achieved:

Sample: N140A

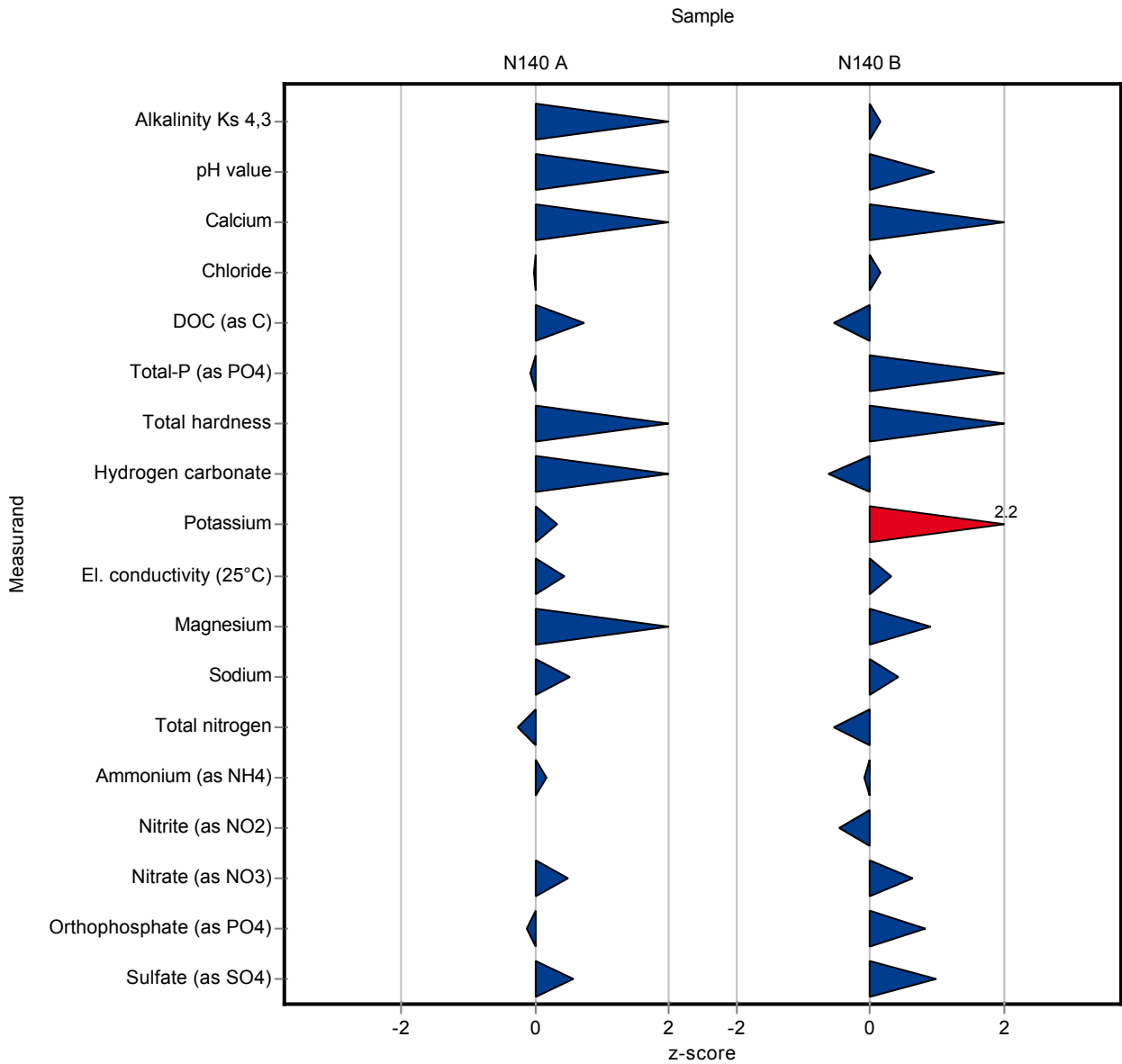
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.75	0.8	0.106	102	1.65
pH value	-	7.67 ± 0.0656	7.85	0.1	0.142	102	1.27
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	154.95	15.5	5.01	104	1.28
Chloride	mg/l	121 ± 1.83	120.69	12	3.9	99.9	-0.02
DOC (as C)	mg/l	1.19 ± 0.0672	1.279	0.13	0.116	107	0.73
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.033	0.003	0.0125	97	-0.08
Total hardness	°d	36.1 ± 0.463	37.07	-	0.859	103	1.14
Hydrogen carbonate	mg/l	461 ± 2.87	469.78	-	6.45	102	1.36
Potassium	mg/l	5.33 ± 0.136	5.41	0.5	0.26	102	0.32
El. conductivity (25°C)	µS/c	1350 ± 9.38	1360	4.51	20	101	0.43
Magnesium	mg/l	65.1 ± 0.886	66.92	6.5	1.72	103	1.03
Sodium	mg/l	44.1 ± 0.78	44.86	4.4	1.47	102	0.52
Total nitrogen	mg/l	11.3 ± 0.423	11.17	1.1	0.646	98.4	-0.28
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	0.021	0.002	0.0181	117	0.17
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.033	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.61	4.9	1.65	102	0.49
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.028	0.003	0.00413	98.1	-0.13
Sulfate (as SO4)	mg/l	151 ± 2.01	153.15	15.3	3.96	101	0.56

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.55	0.35	0.0496	100	0.15
pH value	-	8.13 ± 0.0535	8.24	0.1	0.114	101	0.95
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	64.18	6.4	1.77	104	1.53
Chloride	mg/l	20.8 ± 0.333	20.91	2.1	0.71	101	0.16
DOC (as C)	mg/l	2.99 ± 0.0861	2.907	0.29	0.149	97.2	-0.55
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.585	0.06	0.0549	111	1.04
Total hardness	°d	11.7 ± 0.143	12.04	-	0.261	103	1.31
Hydrogen carbonate	mg/l	215 ± 1.49	213.54	-	3.02	99.1	-0.61
Potassium	mg/l	2.14 ± 0.0444	2.32	0.23	0.0824	109	2.23
El. conductivity (25°C)	µS/c	453 ± 3.01	455	4.51	6.58	100	0.31
Magnesium	mg/l	12.9 ± 0.23	13.35	1.3	0.46	103	0.91

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.88	1.3	0.382	101	0.43
Total nitrogen	mg/l	2.96 ± 0.16	2.834	0.28	0.245	95.6	-0.53
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.134	0.013	0.0103	99.3	-0.09
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.165	0.017	0.00823	97.8	-0.45
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.05	1.2	0.468	103	0.63
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.215	0.022	0.00834	103	0.83
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.86	2.4	0.837	104	0.99



The following results were achieved:

Sample: N140A

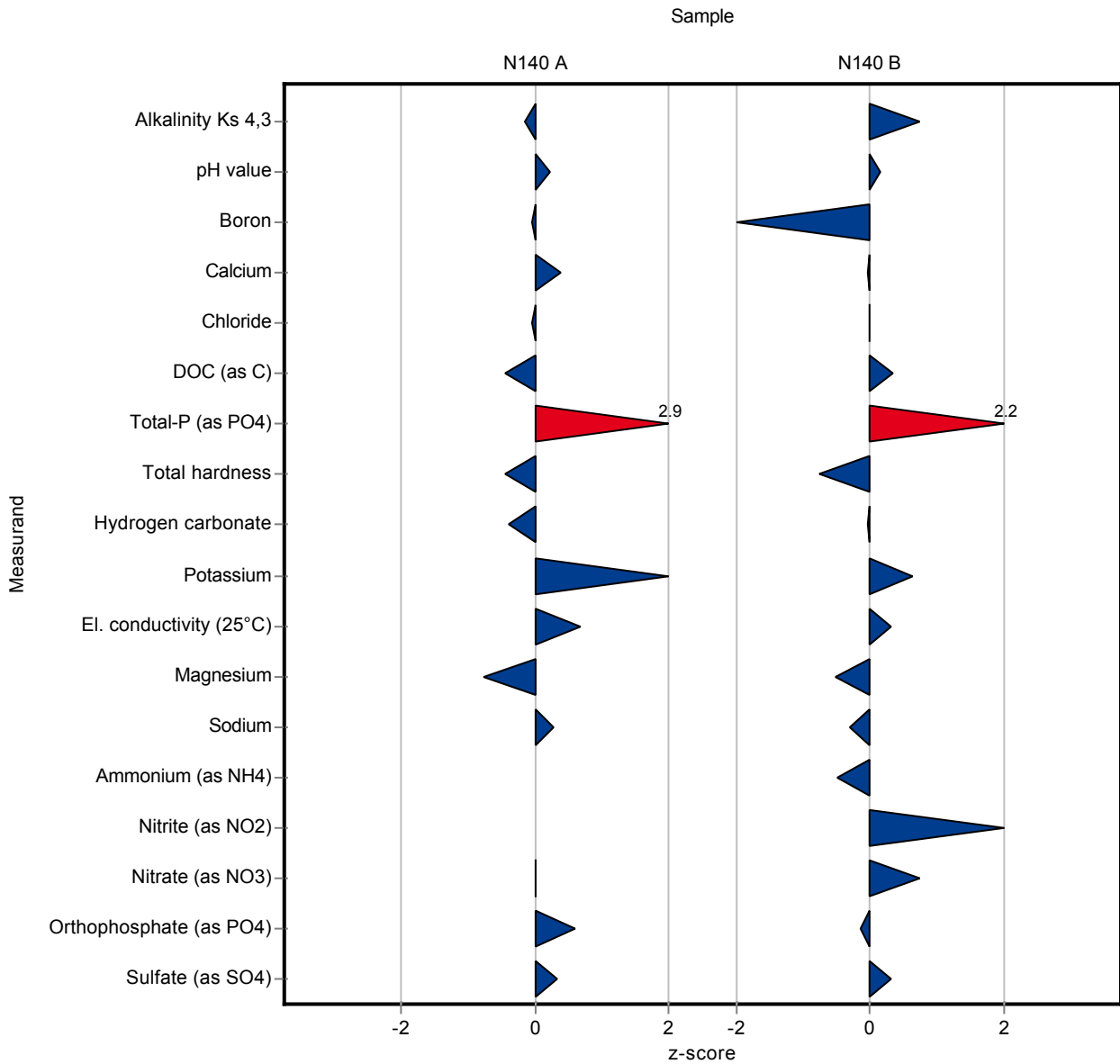
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.56	0.38	0.106	99.8	-0.14
pH value	-	7.67 ± 0.0656	7.7	-	0.142	100	0.22
Boron	mg/l	0.128 ± 0.00389	0.128	0.0128	0.00535	99.8	-0.06
Calcium	mg/l	149 ± 2.47	150.4	7.5	5.01	101	0.37
Chloride	mg/l	121 ± 1.83	120.6	3.6	3.9	99.8	-0.05
DOC (as C)	mg/l	1.19 ± 0.0672	1.14	0.11	0.116	95.5	-0.46
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.07	0.007	0.0125	206	2.87
Total hardness	°d	36.1 ± 0.463	35.7	1.8	0.859	98.9	-0.46
Hydrogen carbonate	mg/l	461 ± 2.87	458.4	22.9	6.45	99.4	-0.40
Potassium	mg/l	5.33 ± 0.136	5.63	0.28	0.26	106	1.17
El. conductivity (25°C)	µS/c	1350 ± 9.38	1365	27	20	101	0.69
Magnesium	mg/l	65.1 ± 0.886	63.8	3.2	1.72	97.9	-0.78
Sodium	mg/l	44.1 ± 0.78	44.5	2.2	1.47	101	0.27
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.03 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.01 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	48.8	1.5	1.65	100	0.00
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.031	0.003	0.00413	109	0.60
Sulfate (as SO4)	mg/l	151 ± 2.01	152.2	4.6	3.96	101	0.32

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.58	0.18	0.0496	101	0.75
pH value	-	8.13 ± 0.0535	8.15	-	0.114	100	0.16
Boron	mg/l	0.0148 ± 0.00184	0.012	0.001	0.00213	80.9	-1.33
Calcium	mg/l	61.5 ± 0.874	61.4	3.1	1.77	99.9	-0.04
Chloride	mg/l	20.8 ± 0.333	20.8	0.6	0.71	100	0.01
DOC (as C)	mg/l	2.99 ± 0.0861	3.04	0.3	0.149	102	0.34
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.646	0.065	0.0549	122	2.15
Total hardness	°d	11.7 ± 0.143	11.5	0.5	0.261	98.3	-0.76
Hydrogen carbonate	mg/l	215 ± 1.49	215.3	10.8	3.02	100	-0.03
Potassium	mg/l	2.14 ± 0.0444	2.19	0.11	0.0824	103	0.65
El. conductivity (25°C)	µS/c	453 ± 3.01	455	9	6.58	100	0.31
Magnesium	mg/l	12.9 ± 0.23	12.7	0.6	0.46	98.2	-0.51

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.6	0.6	0.382	99.1	-0.30
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.13	0.013	0.0103	96.3	-0.48
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.18	0.018	0.00823	107	1.37
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.1	0.4	0.468	103	0.74
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.207	0.021	0.00834	99.5	-0.13
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.3	0.7	0.837	101	0.33



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	-	-	0.142	-	-
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	114	12	3.9	94.4	-1.74
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	-	-	20	-	-
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.01 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	48.1	5.3	1.65	98.6	-0.42
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	<0.03 (LOQ)	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	142	14	3.96	94.1	-2.26

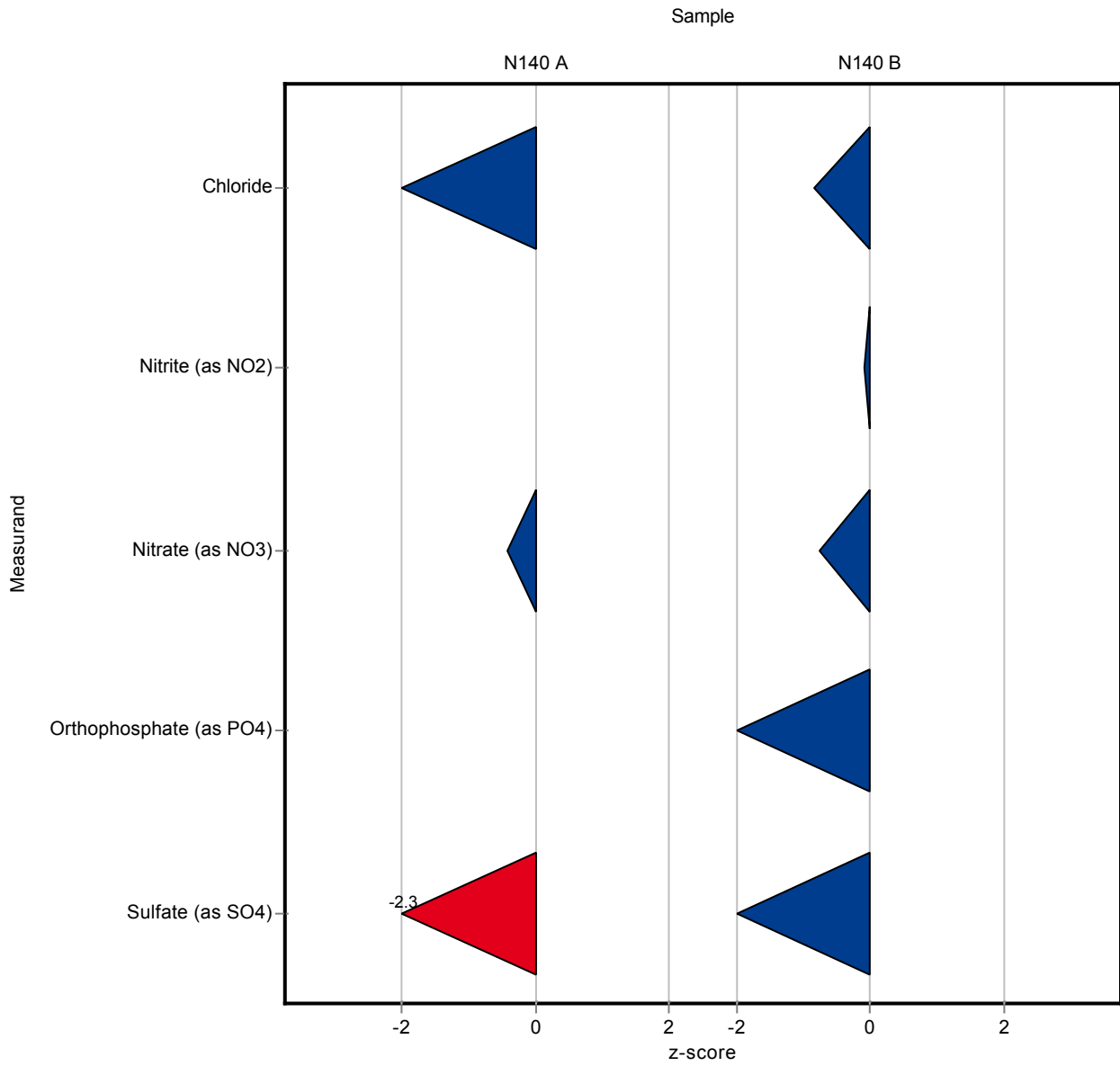
\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	-	-	0.114	-	-
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	20.2	2.2	0.71	97.1	-0.84
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	-	-	6.58	-	-
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.168	0.02	0.00823	99.6	-0.09
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.4	1.3	0.468	97	-0.76
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.193	0.02	0.00834	92.8	-1.81
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22	2.2	0.837	95.5	-1.23





The following results were achieved:

Sample: N140A

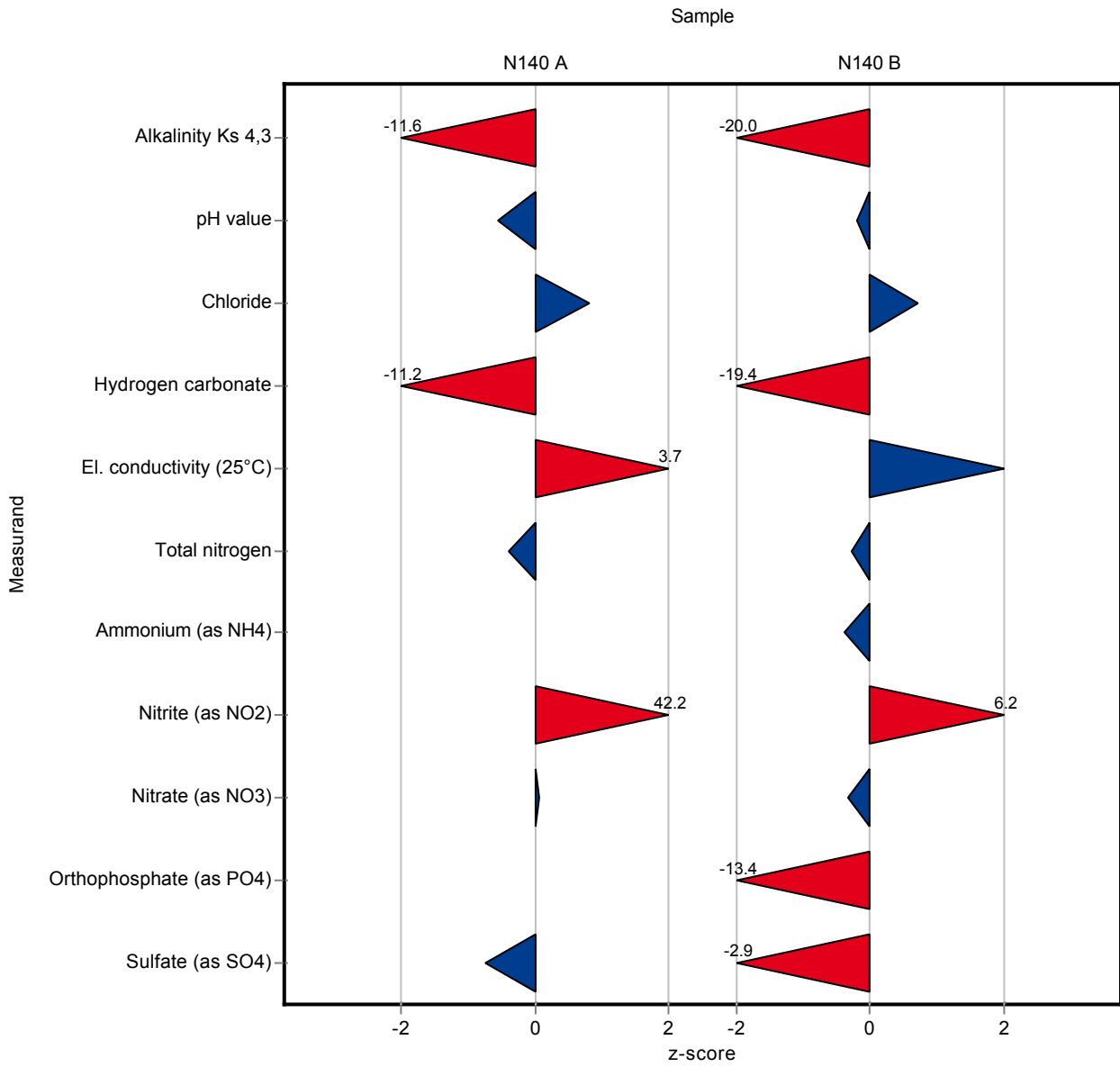
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	6.35	0.03	0.106	83.8	-11.60
pH value	-	7.67 ± 0.0656	7.59	0.008	0.142	99	-0.56
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	124	-	3.9	103	0.82
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	389	1	6.45	84.4	-11.20
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	1425	1	20	105	3.68
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	11.1	0.07	0.646	97.8	-0.38
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.04 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.048	-	0.00102	984	42.20
Nitrate (as NO3)	mg/l	48.8 ± 0.756	48.9	-	1.65	100	0.06
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	<0.03 (LOQ)	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	148	-	3.96	98.1	-0.74

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	2.55	0.03	0.0496	72	-20.00
pH value	-	8.13 ± 0.0535	8.11	0.008	0.114	99.7	-0.19
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	21.3	-	0.71	102	0.71
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	157	1	3.02	72.9	-19.40
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	464	1	6.58	102	1.68
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	2.9	0.07	0.245	97.8	-0.26
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.131	0.005	0.0103	97.1	-0.39
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.22	-	0.00823	130	6.23
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.6	-	0.468	98.7	-0.33
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.096	-	0.00834	46.1	-13.40
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	20.6	-	0.837	89.5	-2.90



The following results were achieved:

Sample: N140A

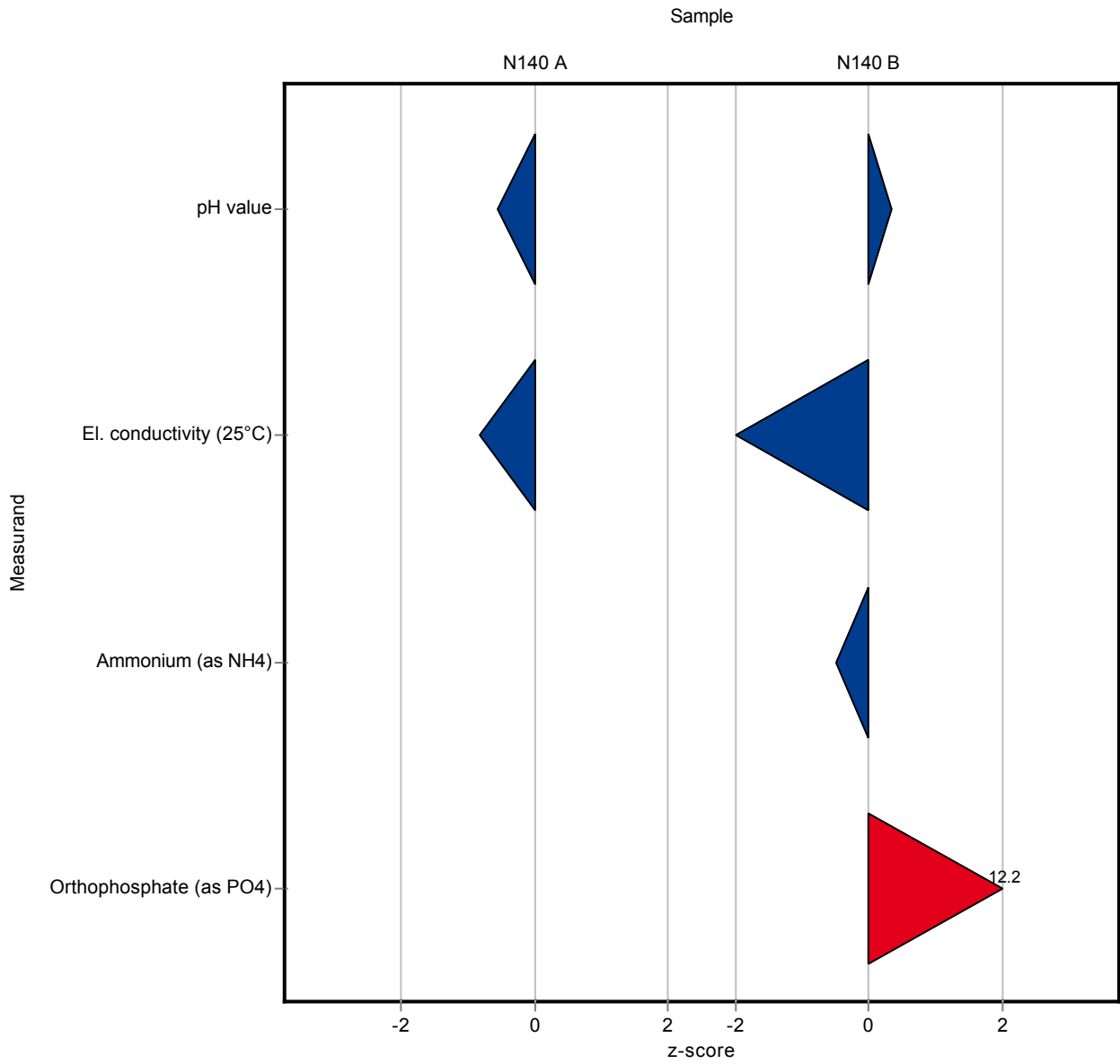
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	7.59	0.1	0.142	99	-0.56
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	-	-	3.9	-	-
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	1335	15	20	98.8	-0.81
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.02 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	-	-	1.65	-	-
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	<0.015	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	8.17	0.1	0.114	100	0.34
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	-	-	0.71	-	-
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	446	15	6.58	98.5	-1.06
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.13	0.02	0.0103	96.3	-0.48
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	-	-	0.468	-	-
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.31	0.06	0.00834	149	12.20
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.56	0.014	0.106	99.8	-0.14
pH value	-	7.67 ± 0.0656	8.12	0.35	0.142	106	3.18
Boron	mg/l	0.128 ± 0.00389	0.128	0.001	0.00535	99.8	-0.06
Calcium	mg/l	149 ± 2.47	141	2.1	5.01	94.9	-1.50
Chloride	mg/l	121 ± 1.83	127	1.2	3.9	105	1.59
DOC (as C)	mg/l	1.19 ± 0.0672	1.02	0.023	0.116	85.4	-1.49
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.0245	0.001	0.0125	72	-0.76
Total hardness	°d	36.1 ± 0.463	33.9	0.56	0.859	93.9	-2.55
Hydrogen carbonate	mg/l	461 ± 2.87	457	1.1	6.45	99.1	-0.62
Potassium	mg/l	5.33 ± 0.136	5.18	0.112	0.26	97.3	-0.56
El. conductivity (25°C)	µS/c	1350 ± 9.38	1338	0.58	20	99	-0.66
Magnesium	mg/l	65.1 ± 0.886	62.7	1.2	1.72	96.3	-1.42
Sodium	mg/l	44.1 ± 0.78	45.4	0.57	1.47	103	0.88
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.01 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.005	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.5	0.473	1.65	101	0.42
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.0239	0.002	0.00413	83.7	-1.12
Sulfate (as SO4)	mg/l	151 ± 2.01	154	0.35	3.96	102	0.78

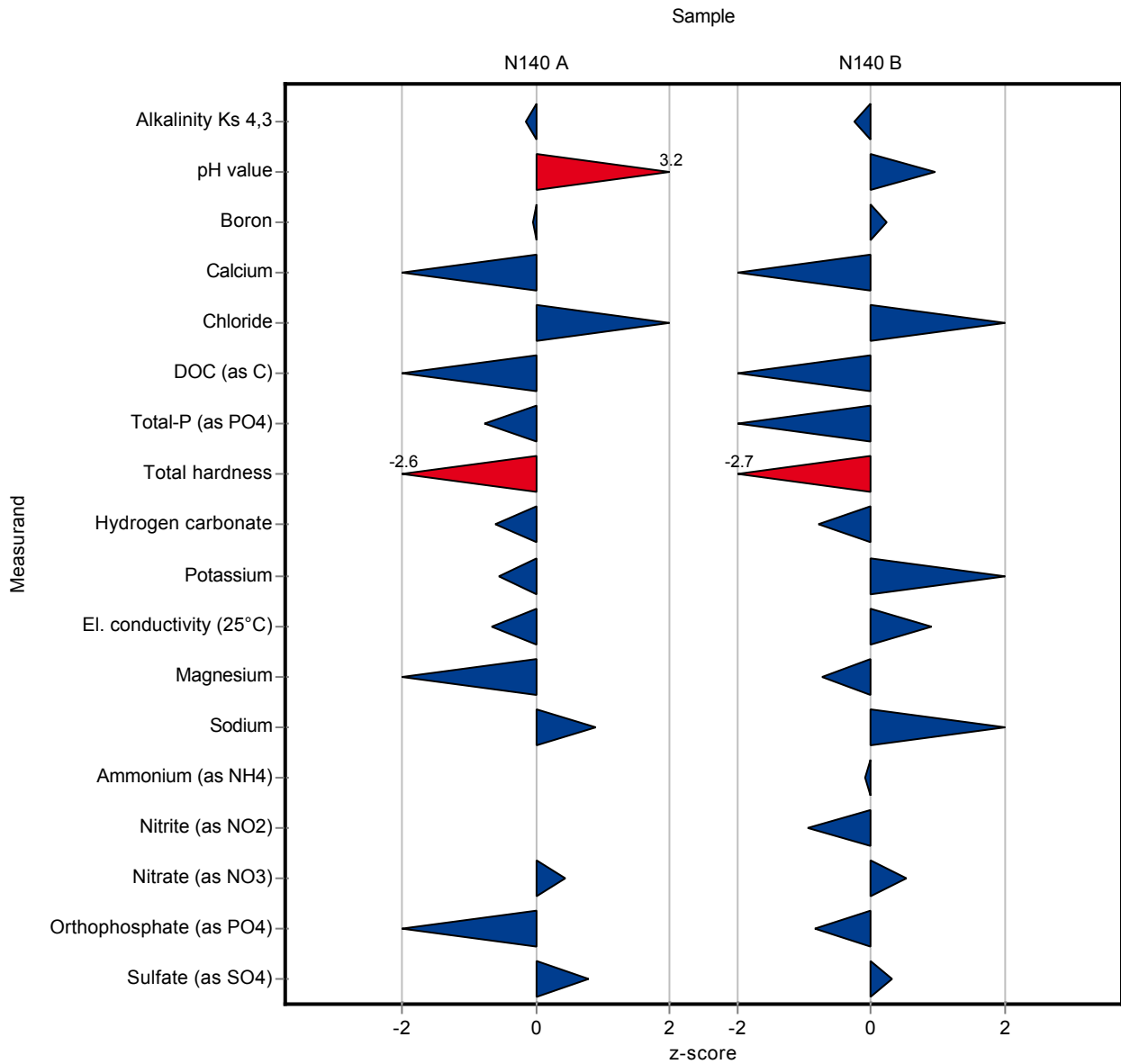
\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.53	0.007	0.0496	99.6	-0.26
pH value	-	8.13 ± 0.0535	8.24	0.006	0.114	101	0.95
Boron	mg/l	0.0148 ± 0.00184	0.0153	0.0003	0.00213	103	0.22
Calcium	mg/l	61.5 ± 0.874	58.8	1.1	1.77	95.7	-1.51
Chloride	mg/l	20.8 ± 0.333	21.6	0.08	0.71	104	1.13
DOC (as C)	mg/l	2.99 ± 0.0861	2.8	0.093	0.149	93.7	-1.27
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.471	0.004	0.0549	89.3	-1.03
Total hardness	°d	11.7 ± 0.143	11	0.21	0.261	94	-2.68
Hydrogen carbonate	mg/l	215 ± 1.49	213	0.21	3.02	98.9	-0.79
Potassium	mg/l	2.14 ± 0.0444	2.22	0.11	0.0824	104	1.01
El. conductivity (25°C)	µS/c	453 ± 3.01	459	0.4	6.58	101	0.92
Magnesium	mg/l	12.9 ± 0.23	12.6	0.23	0.46	97.4	-0.72



Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	13.3	0.25	0.382	105	1.53
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.134	0.0013	0.0103	99.3	-0.09
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.161	0.002	0.00823	95.4	-0.94
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12	0.12	0.468	102	0.52
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.201	0.003	0.00834	96.6	-0.85
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.3	0.06	0.837	101	0.33



The following results were achieved:

Sample: N140A

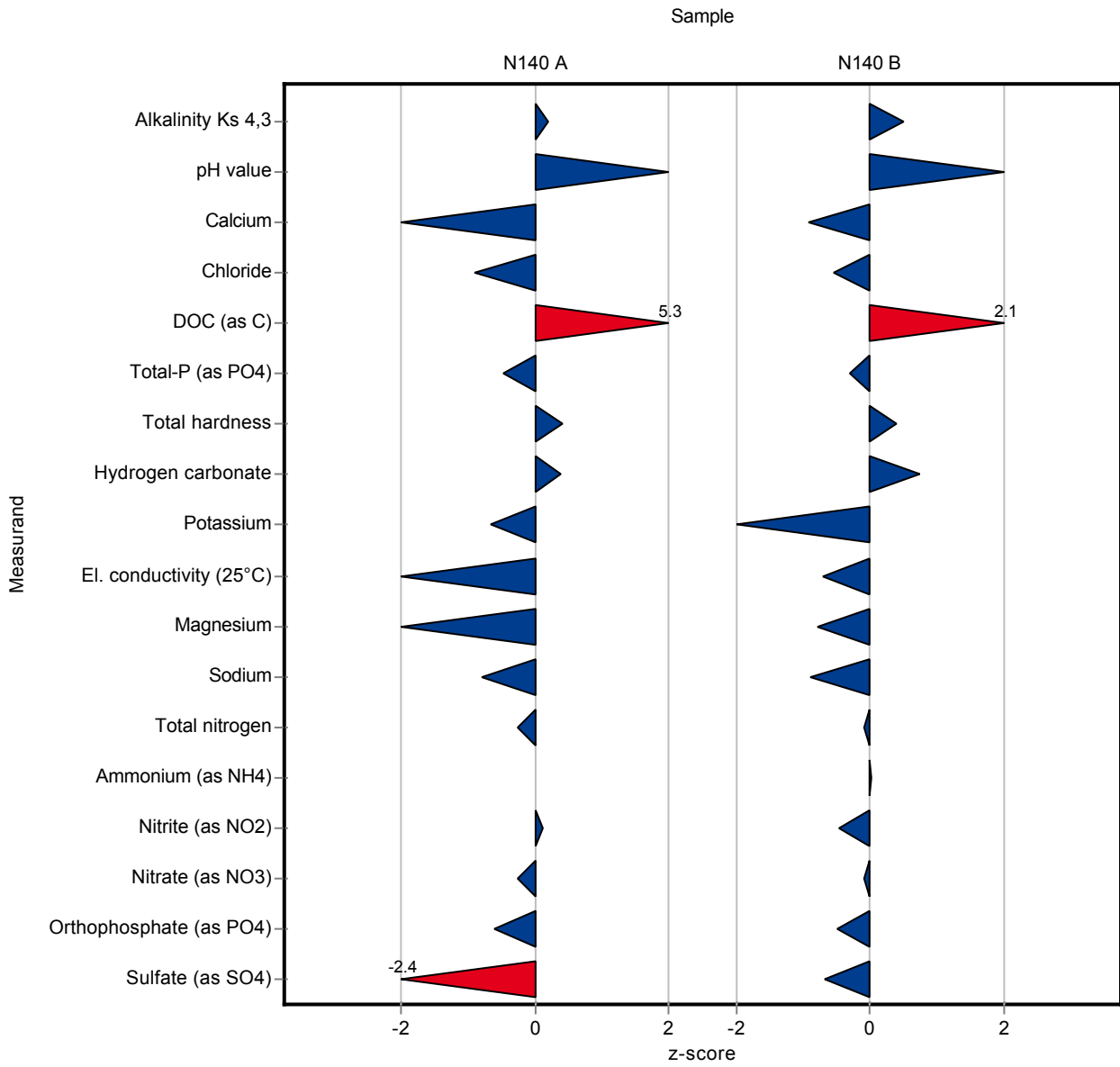
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.597	0.1	0.106	100	0.20
pH value	-	7.67 ± 0.0656	7.91	0.05	0.142	103	1.70
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	143.37	1.7	5.01	96.5	-1.03
Chloride	mg/l	121 ± 1.83	117.24	0.2	3.9	97.1	-0.91
DOC (as C)	mg/l	1.19 ± 0.0672	1.81	0.2	0.116	152	5.29
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.028	0.005	0.0125	82.3	-0.48
Total hardness	°d	36.1 ± 0.463	36.44	0.56	0.859	101	0.41
Hydrogen carbonate	mg/l	461 ± 2.87	463.4	6.1	6.45	101	0.38
Potassium	mg/l	5.33 ± 0.136	5.15	0.02	0.26	96.7	-0.68
El. conductivity (25°C)	µS/c	1350 ± 9.38	1330	2	20	98.4	-1.06
Magnesium	mg/l	65.1 ± 0.886	62.73	0.8	1.72	96.3	-1.40
Sodium	mg/l	44.1 ± 0.78	42.91	0.8	1.47	97.3	-0.81
Total nitrogen	mg/l	11.3 ± 0.423	11.17	0.2	0.646	98.4	-0.28
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.0064	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.005	0.002	0.00102	102	0.12
Nitrate (as NO3)	mg/l	48.8 ± 0.756	48.38	0.4	1.65	99.1	-0.26
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.026	0.002	0.00413	91.1	-0.61
Sulfate (as SO4)	mg/l	151 ± 2.01	141.53	2	3.96	93.8	-2.38

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.568	0.1	0.0496	101	0.51
pH value	-	8.13 ± 0.0535	8.26	0.05	0.114	102	1.12
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	59.86	1.7	1.77	97.4	-0.91
Chloride	mg/l	20.8 ± 0.333	20.41	0.2	0.71	98.1	-0.54
DOC (as C)	mg/l	2.99 ± 0.0861	3.3	0.2	0.149	110	2.08
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.511	0.005	0.0549	96.8	-0.30
Total hardness	°d	11.7 ± 0.143	11.8	0.56	0.261	101	0.39
Hydrogen carbonate	mg/l	215 ± 1.49	217.6	6.1	3.02	101	0.74
Potassium	mg/l	2.14 ± 0.0444	2.03	0.02	0.0824	95	-1.29
El. conductivity (25°C)	µS/c	453 ± 3.01	448.4	2	6.58	99	-0.69
Magnesium	mg/l	12.9 ± 0.23	12.57	0.8	0.46	97.2	-0.79

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.37	0.8	0.382	97.3	-0.90
Total nitrogen	mg/l	2.96 ± 0.16	2.946	0.2	0.245	99.4	-0.07
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.1352	0.0026	0.0103	100	0.02
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.165	0.002	0.00823	97.8	-0.45
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.71	0.4	0.468	99.6	-0.10
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.204	0.002	0.00834	98	-0.49
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22.47	2	0.837	97.6	-0.67



The following results were achieved:

Sample: N140A

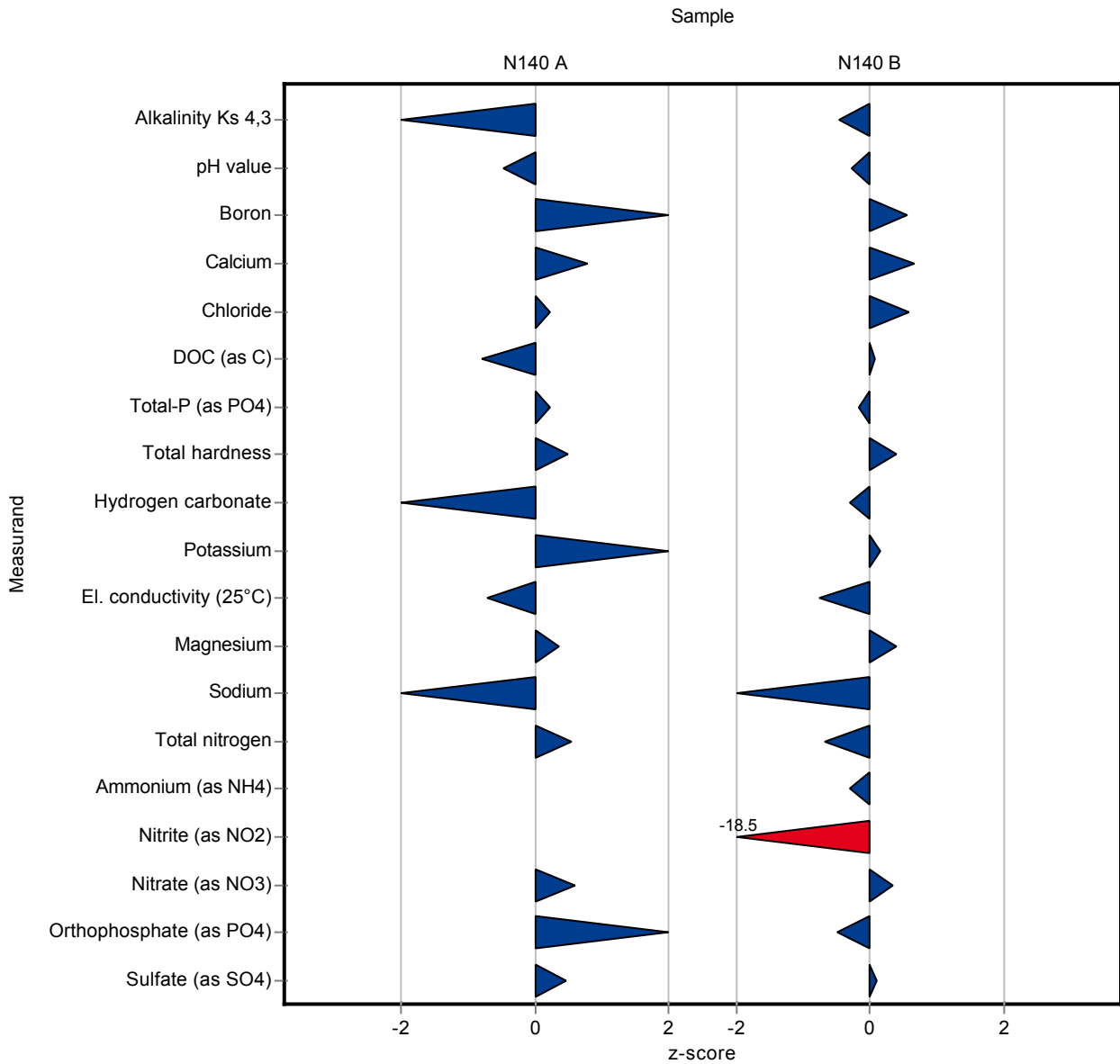
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.43	1.115	0.106	98.1	-1.37
pH value	-	7.67 ± 0.0656	7.6	0.45	0.142	99.1	-0.49
Boron	mg/l	0.128 ± 0.00389	0.138	0.0166	0.00535	108	1.82
Calcium	mg/l	149 ± 2.47	152.4	6.096	5.01	103	0.77
Chloride	mg/l	121 ± 1.83	121.61	4.864	3.9	101	0.21
DOC (as C)	mg/l	1.19 ± 0.0672	1.1	0.09	0.116	92.1	-0.81
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.0368	0.005	0.0125	108	0.22
Total hardness	°d	36.1 ± 0.463	36.5	-	0.859	101	0.48
Hydrogen carbonate	mg/l	461 ± 2.87	453.4	68.1	6.45	98.4	-1.17
Potassium	mg/l	5.33 ± 0.136	5.83	0.583	0.26	109	1.94
El. conductivity (25°C)	µS/c	1350 ± 9.38	1337	53.5	20	98.9	-0.71
Magnesium	mg/l	65.1 ± 0.886	65.73	3.944	1.72	101	0.34
Sodium	mg/l	44.1 ± 0.78	42.39	2.542	1.47	96.1	-1.16
Total nitrogen	mg/l	11.3 ± 0.423	11.7	1.05	0.646	103	0.54
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.00063	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.00657	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.775	1.991	1.65	102	0.59
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.033	0.0039	0.00413	116	1.08
Sulfate (as SO4)	mg/l	151 ± 2.01	152.81	9.169	3.96	101	0.47

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.52	0.527	0.0496	99.4	-0.46
pH value	-	8.13 ± 0.0535	8.1	0.48	0.114	99.6	-0.28
Boron	mg/l	0.0148 ± 0.00184	0.016	0.0019	0.00213	108	0.55
Calcium	mg/l	61.5 ± 0.874	62.64	2.506	1.77	102	0.66
Chloride	mg/l	20.8 ± 0.333	21.21	0.848	0.71	102	0.58
DOC (as C)	mg/l	2.99 ± 0.0861	3	0.24	0.149	100	0.07
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.5182	0.0779	0.0549	98.2	-0.17
Total hardness	°d	11.7 ± 0.143	11.8	-	0.261	101	0.39
Hydrogen carbonate	mg/l	215 ± 1.49	214.5	32.18	3.02	99.6	-0.29
Potassium	mg/l	2.14 ± 0.0444	2.15	0.215	0.0824	101	0.17
El. conductivity (25°C)	µS/c	453 ± 3.01	448	17.9	6.58	98.9	-0.75
Magnesium	mg/l	12.9 ± 0.23	13.12	0.787	0.46	101	0.41

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.17	0.73	0.382	95.7	-1.43
Total nitrogen	mg/l	2.96 ± 0.16	2.8	0.25	0.245	94.5	-0.67
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.132	0.0132	0.0103	97.8	-0.29
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.016	0.0013	0.00823	9.48	-18.50
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.917	0.4767	0.468	101	0.34
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.204	0.0244	0.00834	98	-0.49
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.11	1.387	0.837	100	0.10





The following results were achieved:

Sample: N140A

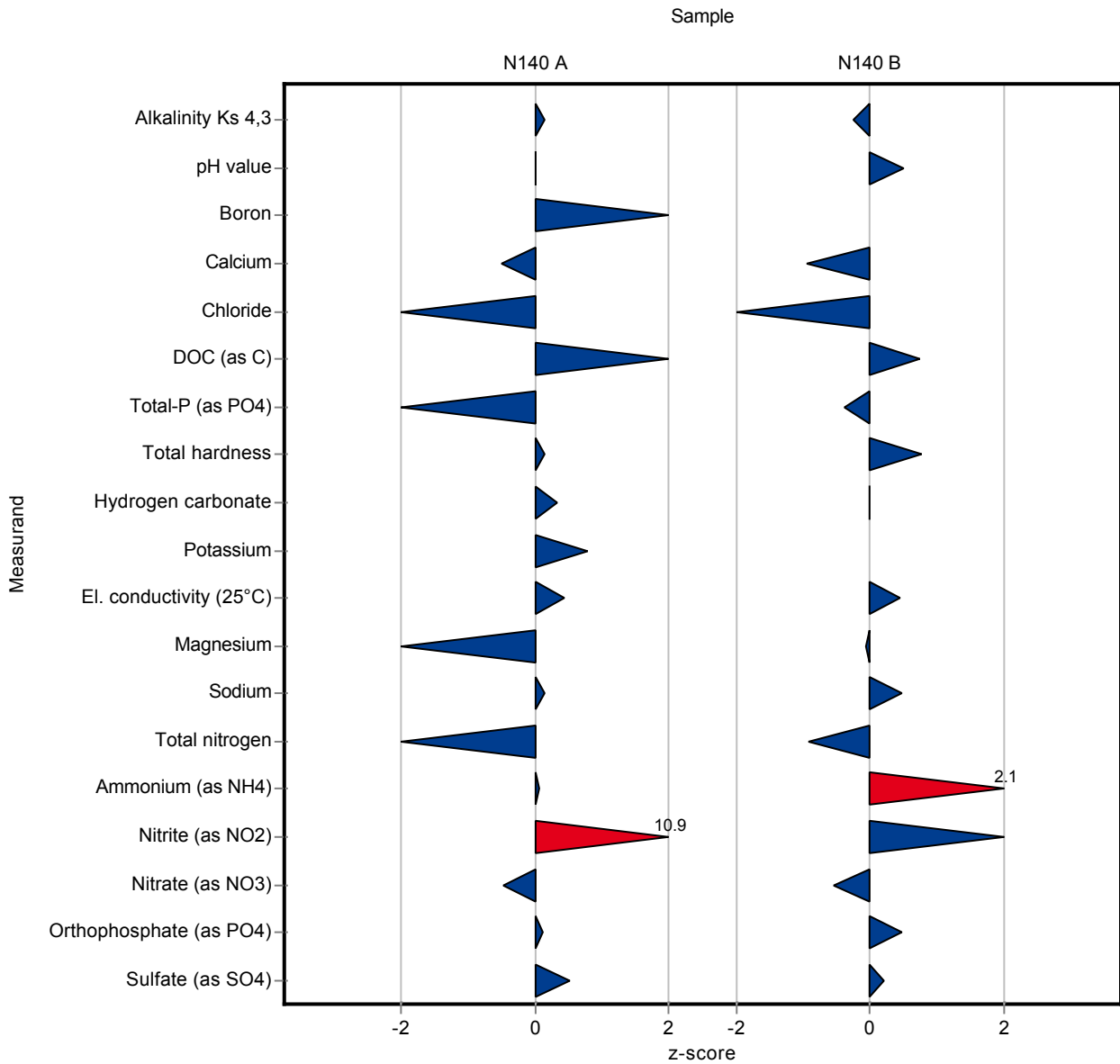
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.59	0.83	0.106	100	0.14
pH value	-	7.67 ± 0.0656	7.67	0.39	0.142	100	0.01
Boron	mg/l	0.128 ± 0.00389	0.138	0.008	0.00535	108	1.82
Calcium	mg/l	149 ± 2.47	146	11.7	5.01	98.3	-0.51
Chloride	mg/l	121 ± 1.83	114	11.4	3.9	94.4	-1.74
DOC (as C)	mg/l	1.19 ± 0.0672	1.41	0.41	0.116	118	1.86
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.018	0.004	0.0125	52.9	-1.28
Total hardness	°d	36.1 ± 0.463	36.2	3.3	0.859	100	0.13
Hydrogen carbonate	mg/l	461 ± 2.87	463.14	41.68	6.45	100	0.33
Potassium	mg/l	5.33 ± 0.136	5.53	0.55	0.26	104	0.79
El. conductivity (25°C)	µS/c	1350 ± 9.38	1360	68	20	101	0.43
Magnesium	mg/l	65.1 ± 0.886	63.3	6.33	1.72	97.2	-1.07
Sodium	mg/l	44.1 ± 0.78	44.3	5.3	1.47	100	0.13
Total nitrogen	mg/l	11.3 ± 0.423	10.22	2.04	0.646	90.1	-1.75
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	0.019	0.004	0.0181	106	0.06
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.016	0.002	0.00102	328	10.90
Nitrate (as NO3)	mg/l	48.8 ± 0.756	48	4.8	1.65	98.4	-0.48
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.029	0.003	0.00413	102	0.11
Sulfate (as SO4)	mg/l	151 ± 2.01	153	22.9	3.96	101	0.52

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.53	0.32	0.0496	99.6	-0.26
pH value	-	8.13 ± 0.0535	8.19	0.41	0.114	101	0.51
Boron	mg/l	0.0148 ± 0.00184	<0.047	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	59.8	4.8	1.77	97.3	-0.94
Chloride	mg/l	20.8 ± 0.333	19.8	1.98	0.71	95.2	-1.40
DOC (as C)	mg/l	2.99 ± 0.0861	3.1	0.9	0.149	104	0.74
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.507	0.101	0.0549	96.1	-0.38
Total hardness	°d	11.7 ± 0.143	11.9	1.1	0.261	102	0.78
Hydrogen carbonate	mg/l	215 ± 1.49	215.4	19.39	3.02	100	0.01
Potassium	mg/l	2.14 ± 0.0444	<2.46 (LOQ)	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	456	23	6.58	101	0.46
Magnesium	mg/l	12.9 ± 0.23	12.9	1.29	0.46	99.7	-0.07

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.9	1.6	0.382	101	0.48
Total nitrogen	mg/l	2.96 ± 0.16	2.74	0.55	0.245	92.4	-0.92
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.156	0.033	0.0103	116	2.05
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.179	0.02	0.00823	106	1.25
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.5	1.15	0.468	97.8	-0.55
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.212	0.023	0.00834	102	0.47
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.2	3.48	0.837	101	0.20



The following results were achieved:

Sample: N140A

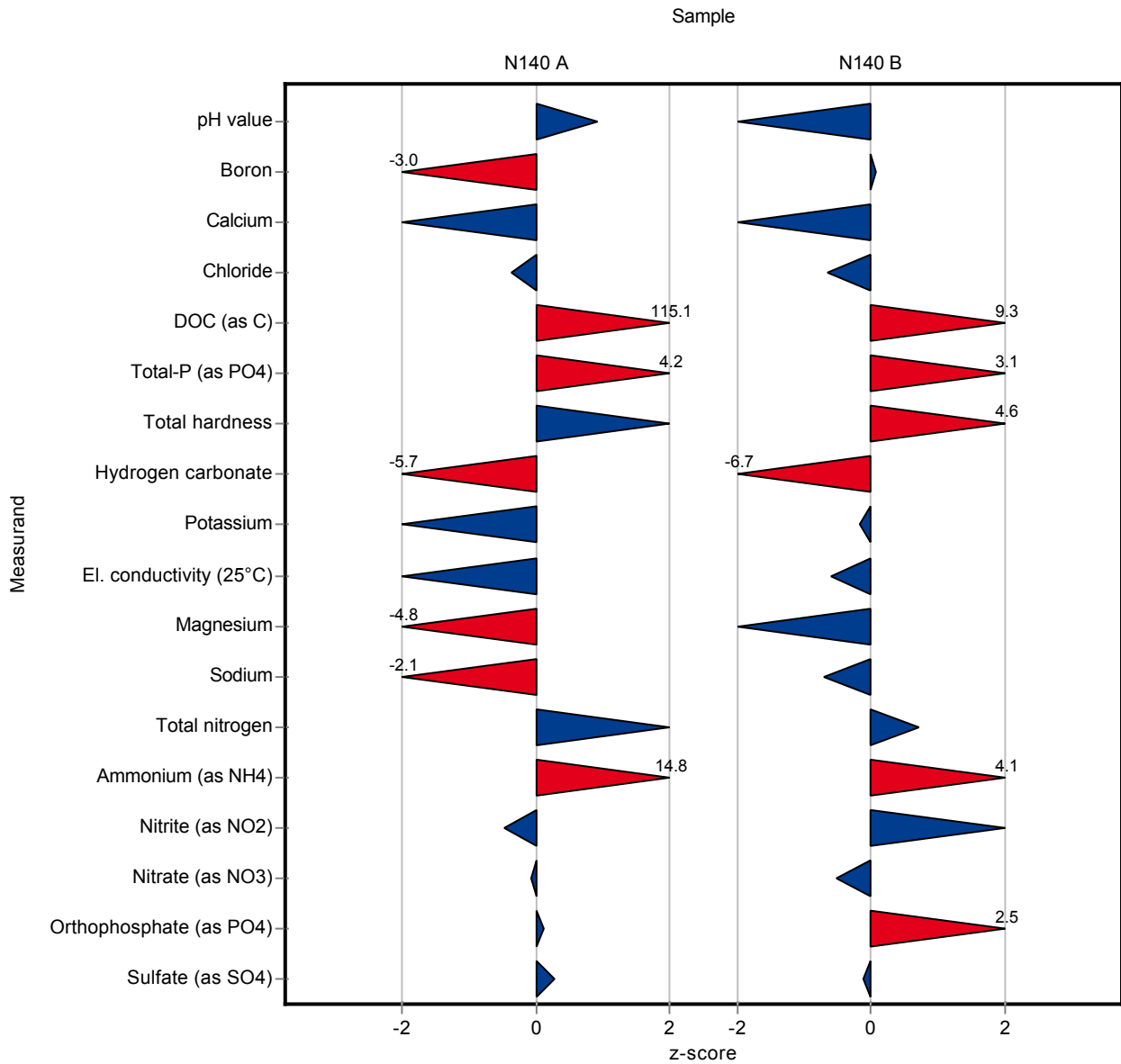
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	7.8	0.02	0.142	102	0.92
Boron	mg/l	0.128 ± 0.00389	0.112	0.001	0.00535	87.3	-3.05
Calcium	mg/l	149 ± 2.47	141.56	2.058	5.01	95.3	-1.39
Chloride	mg/l	121 ± 1.83	119.34	0.246	3.9	98.8	-0.37
DOC (as C)	mg/l	1.19 ± 0.0672	14.6	0.999	0.116	1220	115.00
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.086	0.003	0.0125	253	4.15
Total hardness	°d	36.1 ± 0.463	36.98	0.56	0.859	102	1.04
Hydrogen carbonate	mg/l	461 ± 2.87	424.09	3.051	6.45	92	-5.72
Potassium	mg/l	5.33 ± 0.136	4.97	0.18	0.26	93.3	-1.37
El. conductivity (25°C)	µS/c	1350 ± 9.38	1331	1	20	98.5	-1.01
Magnesium	mg/l	65.1 ± 0.886	56.82	1.069	1.72	87.2	-4.83
Sodium	mg/l	44.1 ± 0.78	41.06	0.689	1.47	93.1	-2.07
Total nitrogen	mg/l	11.3 ± 0.423	12.14	0.076	0.646	107	1.22
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	0.286	0.023	0.0181	1590	14.80
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.0044	0.0001	0.00102	90.2	-0.47
Nitrate (as NO3)	mg/l	48.8 ± 0.756	48.67	0.015	1.65	99.7	-0.08
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.029	0.001	0.00413	102	0.11
Sulfate (as SO4)	mg/l	151 ± 2.01	152	0.05	3.96	101	0.27

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	7.97	0.01	0.114	98	-1.42
Boron	mg/l	0.0148 ± 0.00184	0.015	0.001	0.00213	101	0.08
Calcium	mg/l	61.5 ± 0.874	58.94	0.517	1.77	95.9	-1.43
Chloride	mg/l	20.8 ± 0.333	20.34	0.059	0.71	97.8	-0.64
DOC (as C)	mg/l	2.99 ± 0.0861	4.37	0.295	0.149	146	9.26
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.697	0.011	0.0549	132	3.08
Total hardness	°d	11.7 ± 0.143	12.89	0.56	0.261	110	4.57
Hydrogen carbonate	mg/l	215 ± 1.49	195.3	3.051	3.02	90.7	-6.66
Potassium	mg/l	2.14 ± 0.0444	2.122	0.066	0.0824	99.3	-0.17
El. conductivity (25°C)	µS/c	453 ± 3.01	449	1	6.58	99.1	-0.60
Magnesium	mg/l	12.9 ± 0.23	12.26	0.03	0.46	94.8	-1.46

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.45	0.055	0.382	97.9	-0.69
Total nitrogen	mg/l	2.96 ± 0.16	3.14	0.151	0.245	106	0.72
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.177	0.017	0.0103	131	4.10
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.185	0.0044	0.00823	110	1.98
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.51	0.122	0.468	97.9	-0.53
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.229	0.001	0.00834	110	2.51
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22.94	0.057	0.837	99.6	-0.10



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.67	0.15	0.106	101	0.89
pH value	-	7.67 ± 0.0656	7.7	-	0.142	100	0.22
Boron	mg/l	0.128 ± 0.00389	0.128	0.01	0.00535	99.8	-0.06
Calcium	mg/l	149 ± 2.47	149	7	5.01	100	0.09
Chloride	mg/l	121 ± 1.83	119	20	3.9	98.5	-0.46
DOC (as C)	mg/l	1.19 ± 0.0672	1.08	0.24	0.116	90.5	-0.98
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.038	0.008	0.0125	112	0.32
Total hardness	°d	36.1 ± 0.463	35.8	-	0.859	99.2	-0.34
Hydrogen carbonate	mg/l	461 ± 2.87	465	-	6.45	101	0.62
Potassium	mg/l	5.33 ± 0.136	5.43	0.25	0.26	102	0.40
El. conductivity (25°C)	µS/c	1350 ± 9.38	1370	29	20	101	0.93
Magnesium	mg/l	65.1 ± 0.886	65.2	3	1.72	100	0.04
Sodium	mg/l	44.1 ± 0.78	42.6	1.9	1.47	96.6	-1.02
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.005	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.003	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.2	6.8	1.65	101	0.24
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.028	0.005	0.00413	98.1	-0.13
Sulfate (as SO4)	mg/l	151 ± 2.01	150	20	3.96	99.4	-0.24

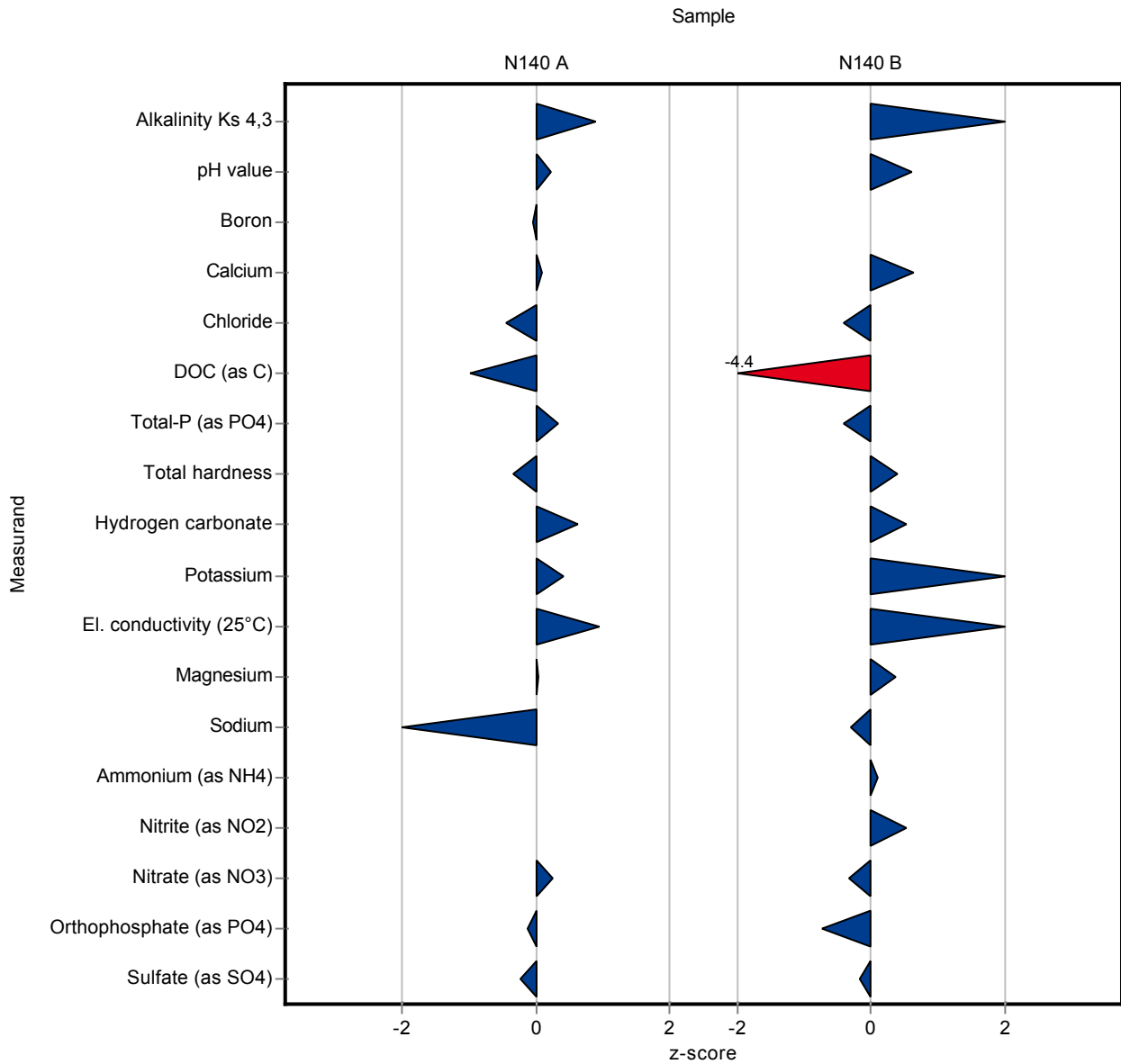
\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.61	0.1	0.0496	102	1.36
pH value	-	8.13 ± 0.0535	8.2	-	0.114	101	0.60
Boron	mg/l	0.0148 ± 0.00184	<0.03 (LOQ)	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	62.6	3.5	1.77	102	0.64
Chloride	mg/l	20.8 ± 0.333	20.5	3.5	0.71	98.6	-0.42
DOC (as C)	mg/l	2.99 ± 0.0861	2.34	0.3	0.149	78.3	-4.36
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.506	0.093	0.0549	95.9	-0.40
Total hardness	°d	11.7 ± 0.143	11.8	-	0.261	101	0.39
Hydrogen carbonate	mg/l	215 ± 1.49	217	-	3.02	101	0.54
Potassium	mg/l	2.14 ± 0.0444	2.24	0.1	0.0824	105	1.26
El. conductivity (25°C)	µS/c	453 ± 3.01	464	11	6.58	102	1.68
Magnesium	mg/l	12.9 ± 0.23	13.1	0.6	0.46	101	0.36

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.6	0.7	0.382	99.1	-0.30
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.136	0.022	0.0103	101	0.10
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.173	0.03	0.00823	103	0.52
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.6	1.7	0.468	98.7	-0.33
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.202	0.032	0.00834	97.1	-0.73
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22.9	-	0.837	99.4	-0.15





The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	-	-	0.142	-	-
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	-	-	3.9	-	-
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	-	-	20	-	-
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	-	-	1.65	-	-
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	-	-	0.114	-	-
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	-	-	0.71	-	-
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	-	-	6.58	-	-
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	-	-	0.468	-	-
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-

The following results were achieved:

Sample: N140A

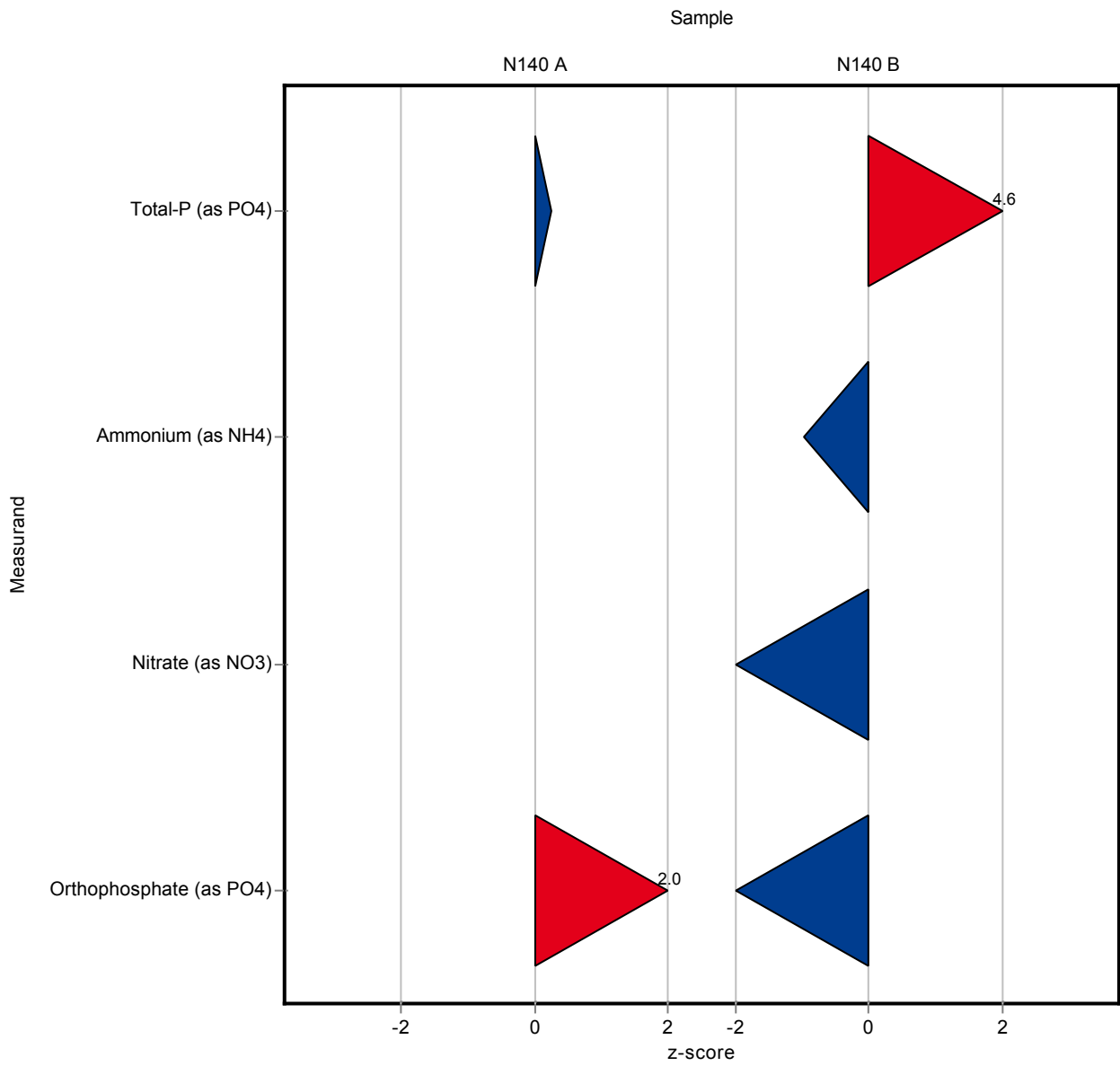
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	-	-	0.142	-	-
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	-	-	3.9	-	-
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.037	0.001	0.0125	109	0.24
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	-	-	20	-	-
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.01 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	-	-	1.65	-	-
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.037	0.007	0.00413	130	2.05
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	-	-	0.114	-	-
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	-	-	0.71	-	-
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.78	0.13	0.0549	148	4.60
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	-	-	6.58	-	-
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.125	0.002	0.0103	92.6	-0.97
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.24	0.72	0.468	95.6	-1.10
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.197	0.022	0.00834	94.7	-1.33
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	-	-	0.142	-	-
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	-	-	3.9	-	-
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	-	-	20	-	-
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	-	-	1.65	-	-
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	-	-	0.114	-	-
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	-	-	0.71	-	-
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	-	-	6.58	-	-
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	-	-	0.468	-	-
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-



The following results were achieved:

Sample: N140A

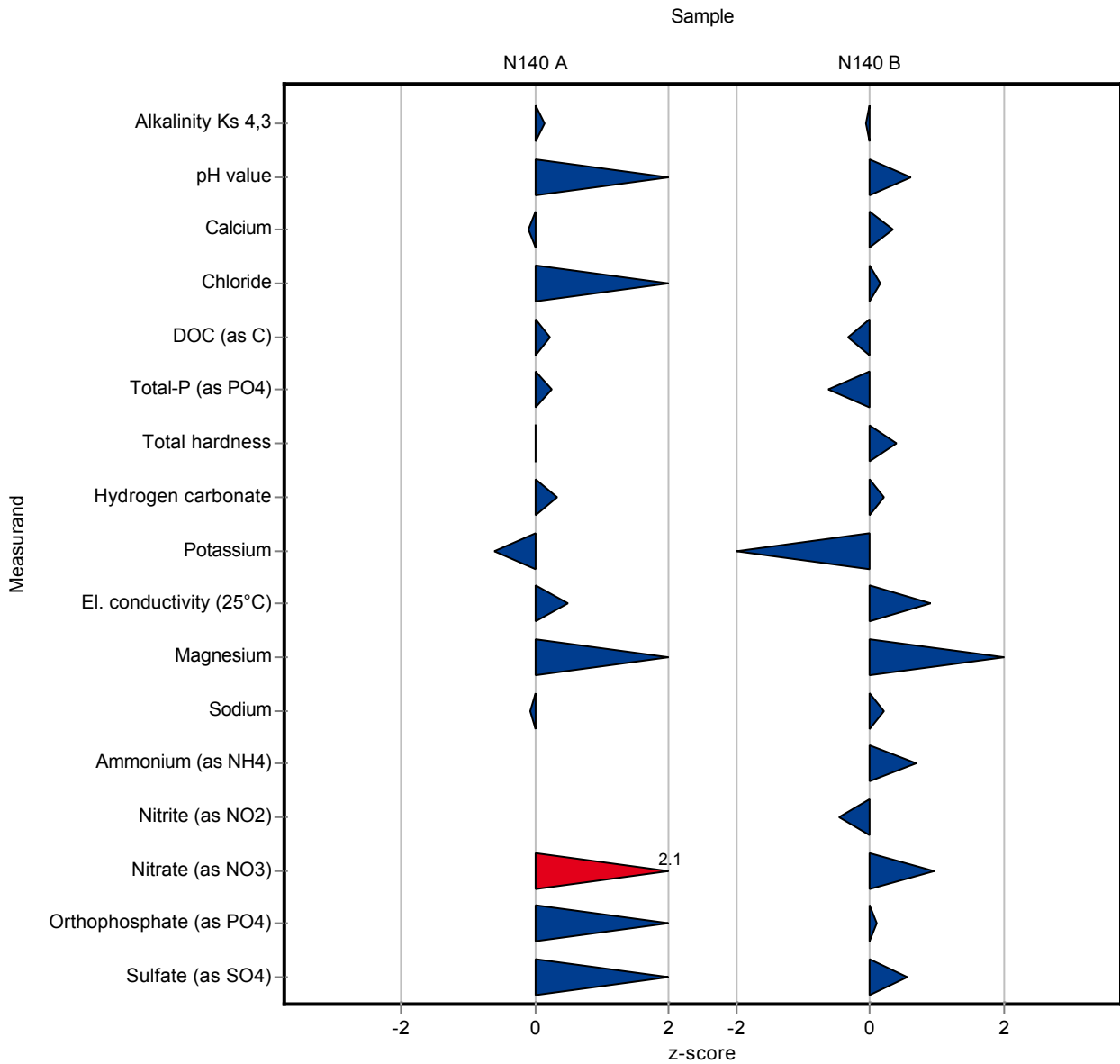
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.59	0.76	0.106	100	0.14
pH value	-	7.67 ± 0.0656	7.9	0.1	0.142	103	1.63
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	148	15	5.01	99.6	-0.11
Chloride	mg/l	121 ± 1.83	125.6	12.6	3.9	104	1.23
DOC (as C)	mg/l	1.19 ± 0.0672	1.22	0.12	0.116	102	0.23
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.037	0.004	0.0125	109	0.24
Total hardness	°d	36.1 ± 0.463	36.1	3.6	0.859	100	0.01
Hydrogen carbonate	mg/l	461 ± 2.87	463.1	46.3	6.45	100	0.33
Potassium	mg/l	5.33 ± 0.136	5.17	0.52	0.26	97.1	-0.60
El. conductivity (25°C)	µS/c	1350 ± 9.38	1361	5	20	101	0.48
Magnesium	mg/l	65.1 ± 0.886	67	6.7	1.72	103	1.08
Sodium	mg/l	44.1 ± 0.78	44	4.4	1.47	99.8	-0.07
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.01 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.01 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	52.3	5.2	1.65	107	2.12
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.034	0.003	0.00413	119	1.32
Sulfate (as SO4)	mg/l	151 ± 2.01	157	15.7	3.96	104	1.53

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.54	0.35	0.0496	99.9	-0.05
pH value	-	8.13 ± 0.0535	8.2	0.1	0.114	101	0.60
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	62.1	6.3	1.77	101	0.35
Chloride	mg/l	20.8 ± 0.333	20.9	2.1	0.71	101	0.15
DOC (as C)	mg/l	2.99 ± 0.0861	2.94	0.29	0.149	98.3	-0.33
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.494	0.05	0.0549	93.6	-0.61
Total hardness	°d	11.7 ± 0.143	11.8	1.2	0.261	101	0.39
Hydrogen carbonate	mg/l	215 ± 1.49	216	21.6	3.02	100	0.20
Potassium	mg/l	2.14 ± 0.0444	1.98	0.2	0.0824	92.7	-1.90
El. conductivity (25°C)	µS/c	453 ± 3.01	459	5	6.58	101	0.92
Magnesium	mg/l	12.9 ± 0.23	13.6	1.4	0.46	105	1.45

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.8	1.3	0.382	101	0.22
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.142	0.014	0.0103	105	0.69
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.165	0.017	0.00823	97.8	-0.45
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.2	1.2	0.468	104	0.95
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.209	0.021	0.00834	100	0.11
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23.5	2.4	0.837	102	0.56



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	-	-	0.142	-	-
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	-	-	3.9	-	-
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	-	-	20	-	-
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	-	-	1.65	-	-
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	-	-	0.114	-	-
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	-	-	0.71	-	-
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	-	-	6.58	-	-
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	-	-	0.468	-	-
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-

The following results were achieved:

Sample: N140A

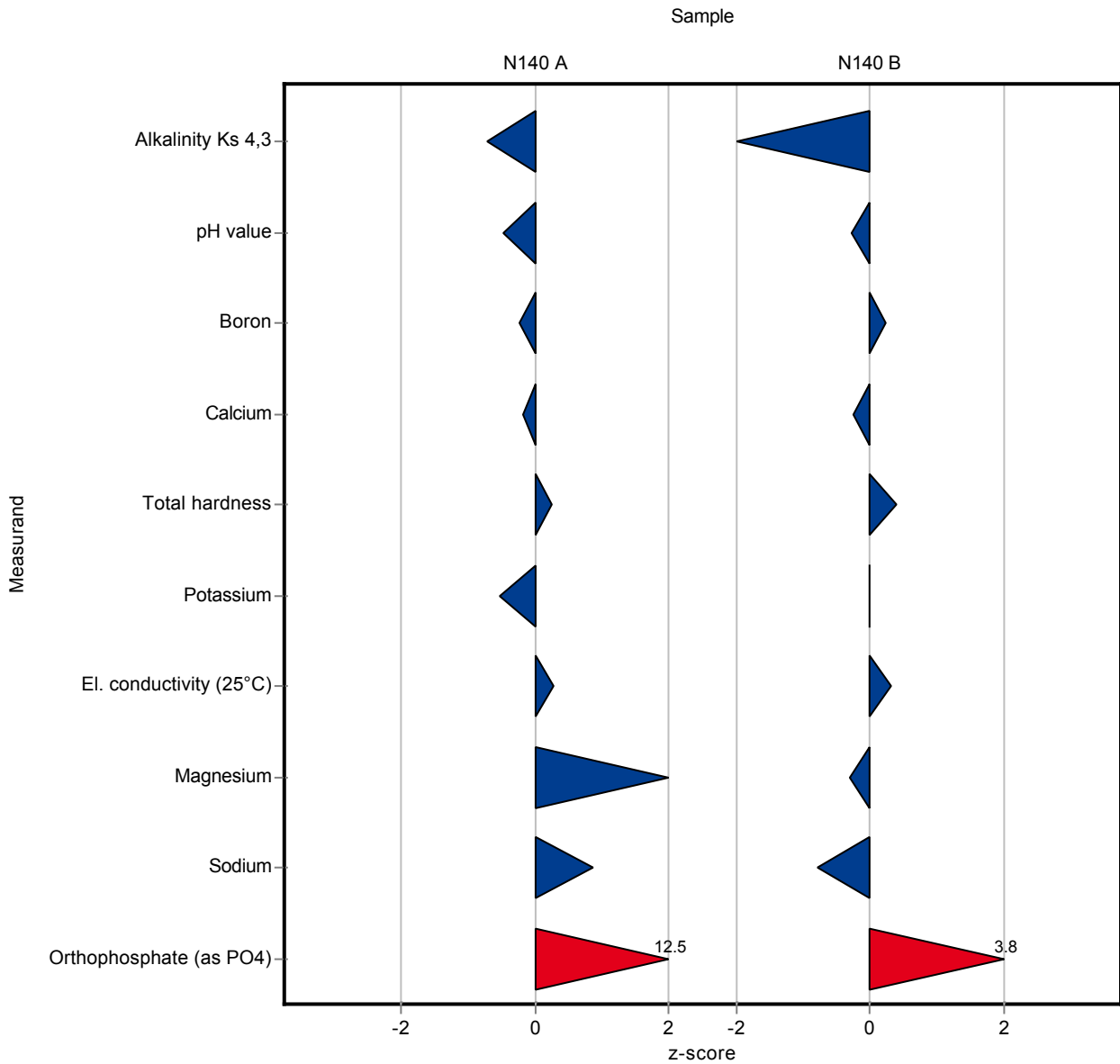
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.5	-	0.106	99	-0.71
pH value	-	7.67 ± 0.0656	7.6	-	0.142	99.1	-0.49
Boron	mg/l	0.128 ± 0.00389	0.127	0.0038	0.00535	99	-0.24
Calcium	mg/l	149 ± 2.47	147.6762	2.8162	5.01	99.4	-0.17
Chloride	mg/l	121 ± 1.83	-	-	3.9	-	-
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	36.3	-	0.859	101	0.24
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	5.1866	0.1338	0.26	97.4	-0.54
El. conductivity (25°C)	µS/c	1350 ± 9.38	1357	-	20	100	0.28
Magnesium	mg/l	65.1 ± 0.886	67.0848	1.2227	1.72	103	1.13
Sodium	mg/l	44.1 ± 0.78	45.3698	3.6807	1.47	103	0.86
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	-	-	1.65	-	-
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.08	-	0.00413	280	12.50
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.49	-	0.0496	98.5	-1.06
pH value	-	8.13 ± 0.0535	8.1	-	0.114	99.6	-0.28
Boron	mg/l	0.0148 ± 0.00184	0.0153	0.0031	0.00213	103	0.22
Calcium	mg/l	61.5 ± 0.874	61.0149	1.3195	1.77	99.3	-0.26
Chloride	mg/l	20.8 ± 0.333	-	-	0.71	-	-
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	11.8	-	0.261	101	0.39
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	2.1359	0.1496	0.0824	100	-0.01
El. conductivity (25°C)	µS/c	453 ± 3.01	455	-	6.58	100	0.31
Magnesium	mg/l	12.9 ± 0.23	12.7926	0.2404	0.46	98.9	-0.30

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.4193	0.7407	0.382	97.7	-0.77
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	-	-	0.468	-	-
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.24	-	0.00834	115	3.83
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-





The following results were achieved:

Sample: N140A

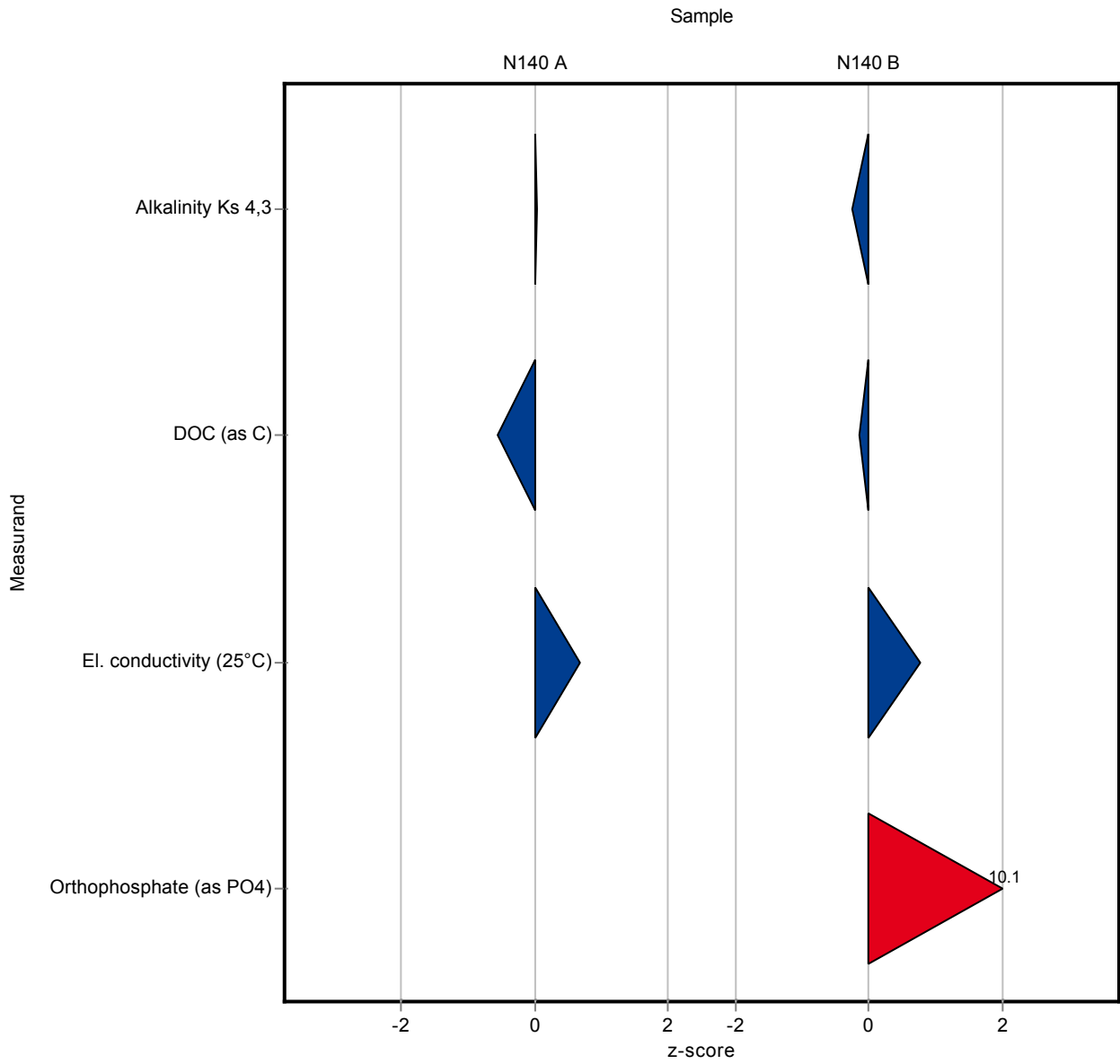
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.58	0.59	0.106	100	0.04
pH value	-	7.67 ± 0.0656	-	-	0.142	-	-
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	-	-	3.9	-	-
DOC (as C)	mg/l	1.19 ± 0.0672	1.13	0.15	0.116	94.7	-0.55
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	1365	26.21	20	101	0.69
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	-	-	1.65	-	-
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	<0.2 (LOQ)	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.53	0.27	0.0496	99.6	-0.26
pH value	-	8.13 ± 0.0535	-	-	0.114	-	-
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	-	-	0.71	-	-
DOC (as C)	mg/l	2.99 ± 0.0861	2.97	0.38	0.149	99.4	-0.13
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	458	8.79	6.58	101	0.77
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	-	-	0.468	-	-
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.292	0.03	0.00834	140	10.10
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-



The following results were achieved:

Sample: N140A

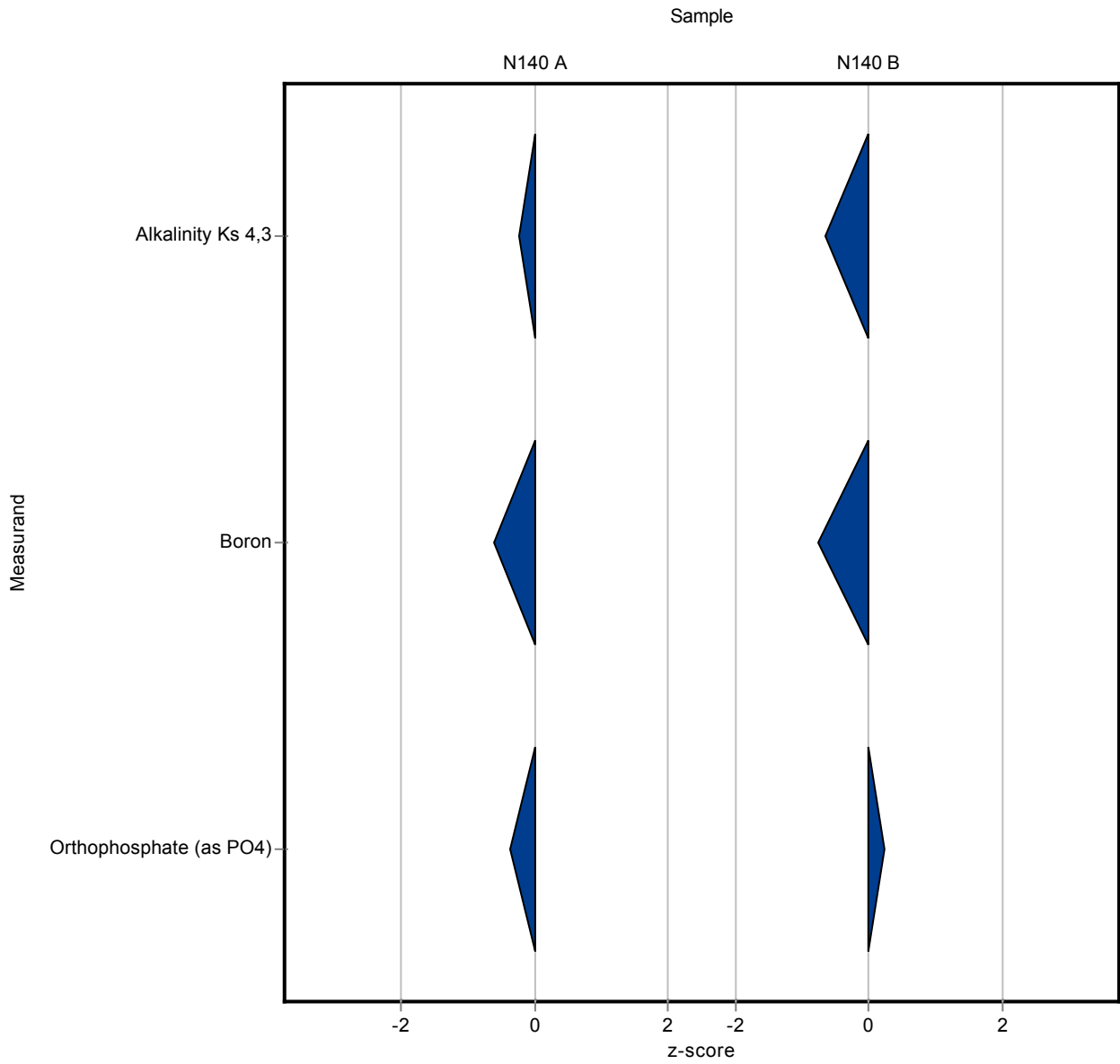
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.55	0.378	0.106	99.7	-0.24
pH value	-	7.67 ± 0.0656	-	-	0.142	-	-
Boron	mg/l	0.128 ± 0.00389	0.125	0.018	0.00535	97.4	-0.62
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	-	-	3.9	-	-
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	-	-	20	-	-
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	-	-	1.65	-	-
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.027	-	0.00413	94.6	-0.37
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.51	0.176	0.0496	99.1	-0.66
pH value	-	8.13 ± 0.0535	-	-	0.114	-	-
Boron	mg/l	0.0148 ± 0.00184	0.0132	0.0019	0.00213	89	-0.76
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	-	-	0.71	-	-
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	-	-	6.58	-	-
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	-	-	0.468	-	-
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.21	-	0.00834	101	0.23
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.71	0.5	0.106	102	1.27
pH value	-	7.67 ± 0.0656	7.6	0.2	0.142	99.1	-0.49
Boron	mg/l	0.128 ± 0.00389	0.085	0.01	0.00535	66.3	-8.10
Calcium	mg/l	149 ± 2.47	160	10	5.01	108	2.29
Chloride	mg/l	121 ± 1.83	128	10	3.9	106	1.85
DOC (as C)	mg/l	1.19 ± 0.0672	0.947	0.1	0.116	79.3	-2.12
Total-P (as PO4)	mg/l	0.034 ± 0.00767	<0.05 (LOQ)	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	37.7	3	0.859	104	1.87
Hydrogen carbonate	mg/l	461 ± 2.87	470	40	6.45	102	1.40
Potassium	mg/l	5.33 ± 0.136	5.57	0.5	0.26	105	0.94
El. conductivity (25°C)	µS/c	1350 ± 9.38	1325	100	20	98.1	-1.31
Magnesium	mg/l	65.1 ± 0.886	66.4	5	1.72	102	0.73
Sodium	mg/l	44.1 ± 0.78	45.7	5	1.47	104	1.09
Total nitrogen	mg/l	11.3 ± 0.423	11.8	1	0.646	104	0.70
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.05 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.05 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	52.4	5	1.65	107	2.18
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	<0.05 (LOQ)	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	159	10	3.96	105	2.04

\*see '4 Explanatory notes' for further detail

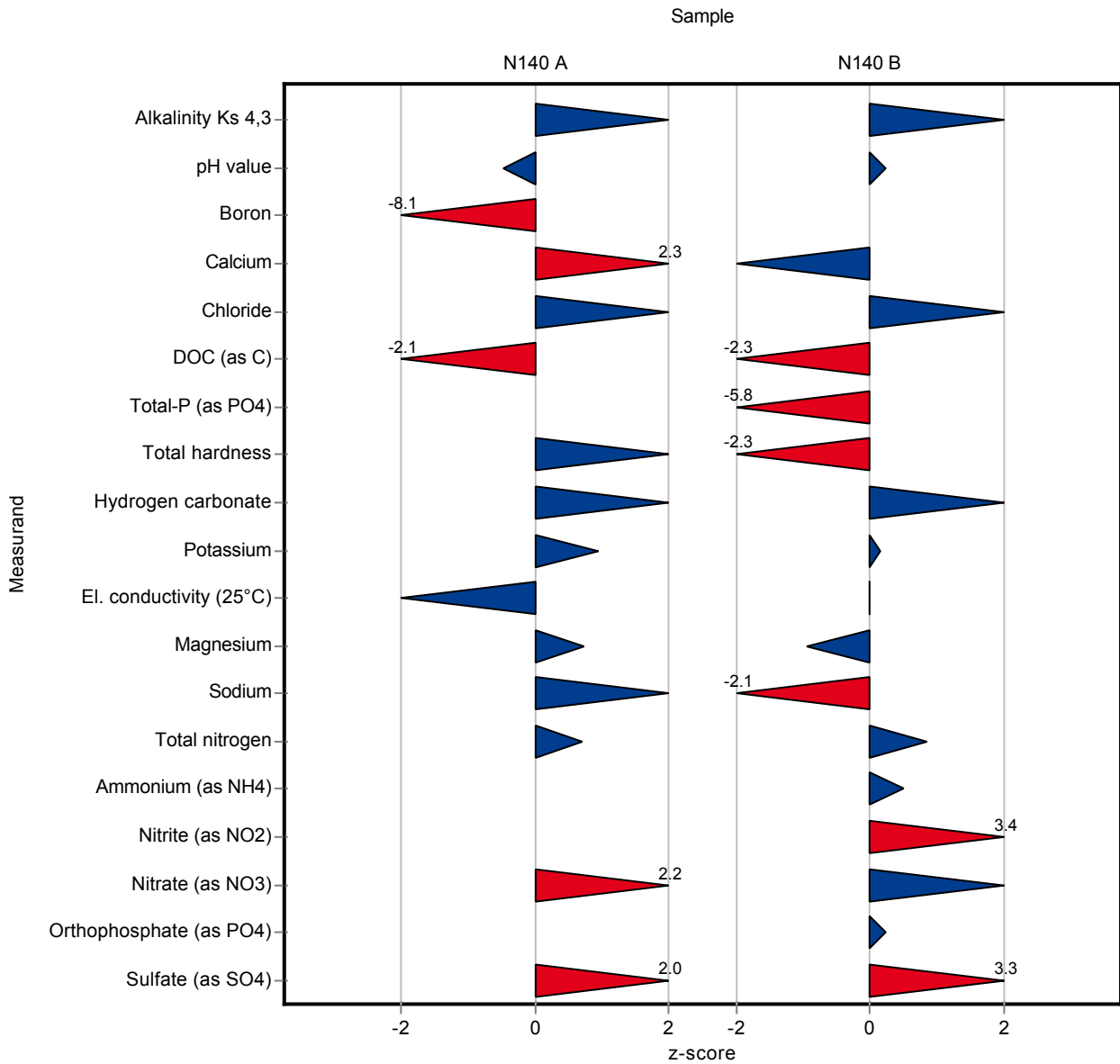
Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.61	0.3	0.0496	102	1.36
pH value	-	8.13 ± 0.0535	8.16	0.5	0.114	100	0.25
Boron	mg/l	0.0148 ± 0.00184	<0.05 (LOQ)	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	58.6	5	1.77	95.3	-1.62
Chloride	mg/l	20.8 ± 0.333	22.1	2	0.71	106	1.84
DOC (as C)	mg/l	2.99 ± 0.0861	2.65	0.2	0.149	88.6	-2.28
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.21	0.02	0.0549	39.8	-5.79
Total hardness	°d	11.7 ± 0.143	11.1	1	0.261	94.9	-2.29
Hydrogen carbonate	mg/l	215 ± 1.49	220	20	3.02	102	1.53
Potassium	mg/l	2.14 ± 0.0444	2.15	0.2	0.0824	101	0.17
El. conductivity (25°C)	µS/c	453 ± 3.01	453	40	6.58	100	0.01
Magnesium	mg/l	12.9 ± 0.23	12.5	1	0.46	96.7	-0.94

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	11.9	1	0.382	93.6	-2.13
Total nitrogen	mg/l	2.96 ± 0.16	3.17	0.3	0.245	107	0.84
Ammonium (as NH <sub>4</sub> )	mg/l	0.135* ± 0.0052	0.14	0.02	0.0103	104	0.49
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.197	0.02	0.00823	117	3.43
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.3	1	0.468	105	1.16
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.21	0.02	0.00834	101	0.23
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	25.8	2	0.837	112	3.31

\*see '4 Explanatory notes' for further detail





The following results were achieved:

Sample: N140A

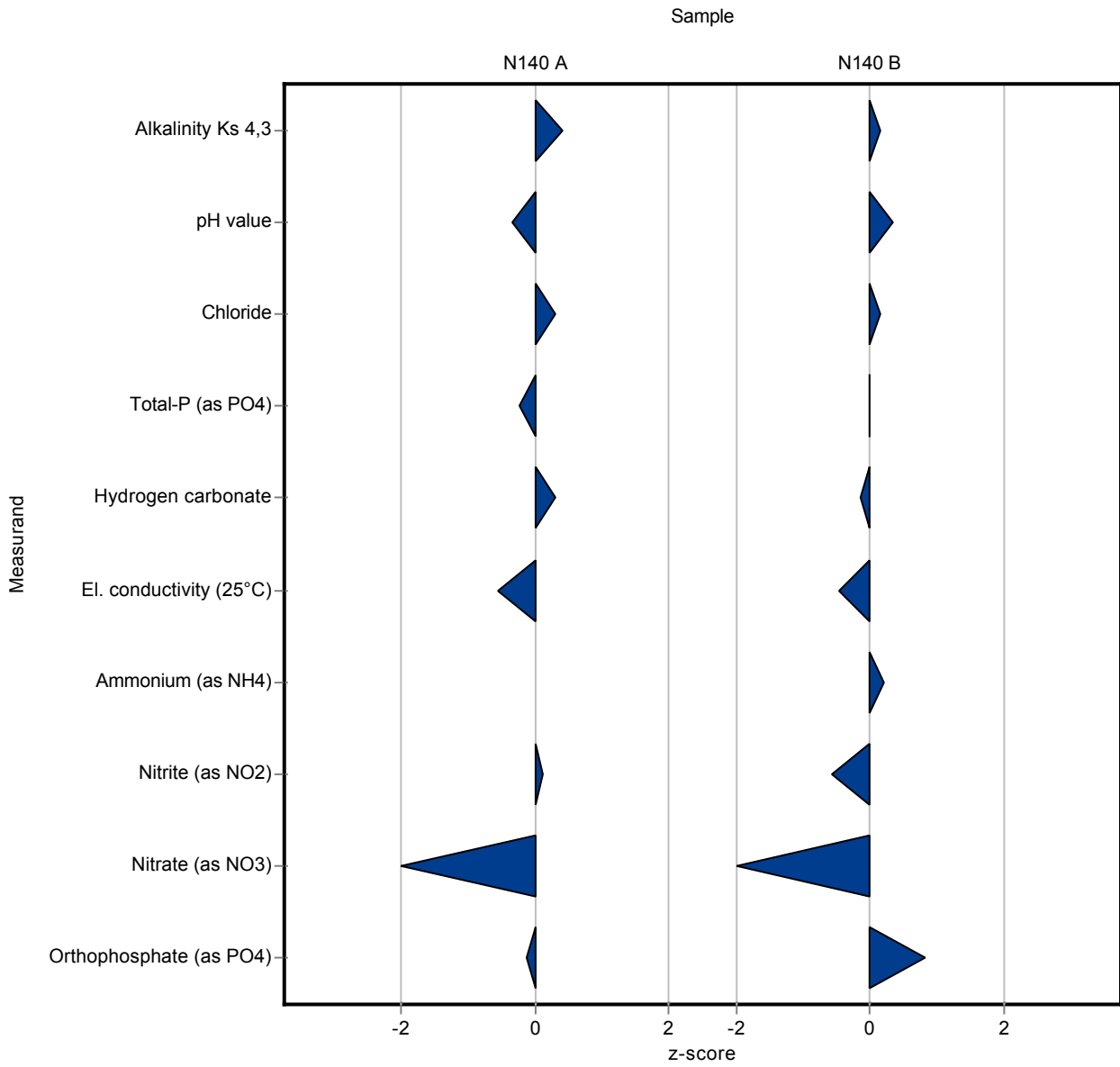
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.62	-	0.106	101	0.42
pH value	-	7.67 ± 0.0656	7.62	-	0.142	99.4	-0.35
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	122	-	3.9	101	0.31
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.031	-	0.0125	91.2	-0.24
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	463	-	6.45	100	0.31
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	1340	-	20	99.2	-0.56
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.005	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.005	-	0.00102	102	0.12
Nitrate (as NO3)	mg/l	48.8 ± 0.756	46.1	-	1.65	94.5	-1.63
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.028	-	0.00413	98.1	-0.13
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.55	-	0.0496	100	0.15
pH value	-	8.13 ± 0.0535	8.17	-	0.114	100	0.34
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	20.9	-	0.71	101	0.15
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.527	-	0.0549	99.9	-0.01
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	215	-	3.02	99.8	-0.13
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	450	-	6.58	99.3	-0.45
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.137	-	0.0103	102	0.20
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.164	-	0.00823	97.2	-0.57
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.1	-	0.468	94.4	-1.40
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.215	-	0.00834	103	0.83
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-



The following results were achieved:

Sample: N140A

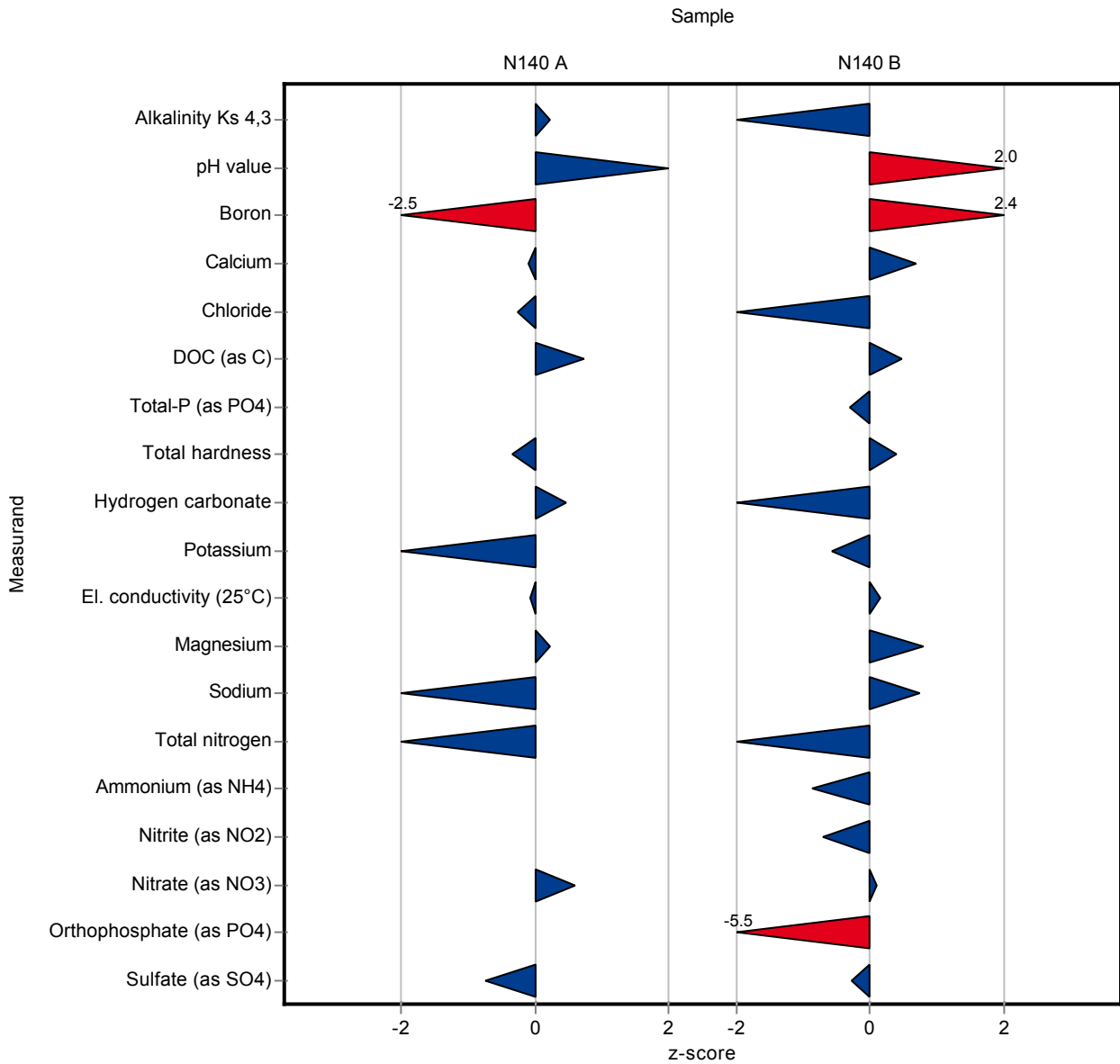
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.6	0.08	0.106	100	0.23
pH value	-	7.67 ± 0.0656	7.94	0.3	0.142	104	1.91
Boron	mg/l	0.128 ± 0.00389	0.115	0.029	0.00535	89.6	-2.49
Calcium	mg/l	149 ± 2.47	148	20.7	5.01	99.6	-0.11
Chloride	mg/l	121 ± 1.83	119.8	30	3.9	99.2	-0.25
DOC (as C)	mg/l	1.19 ± 0.0672	1.28	0.32	0.116	107	0.74
Total-P (as PO4)	mg/l	0.034 ± 0.00767	<0.03 (LOQ)	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	35.8	-	0.859	99.2	-0.34
Hydrogen carbonate	mg/l	461 ± 2.87	464	-	6.45	101	0.47
Potassium	mg/l	5.33 ± 0.136	5.02	0.5	0.26	94.3	-1.18
El. conductivity (25°C)	µS/c	1350 ± 9.38	1350	135	20	99.9	-0.06
Magnesium	mg/l	65.1 ± 0.886	65.5	5.2	1.72	101	0.21
Sodium	mg/l	44.1 ± 0.78	41.5	6.6	1.47	94.1	-1.77
Total nitrogen	mg/l	11.3 ± 0.423	10.4	0.624	0.646	91.6	-1.47
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.02 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.02 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.8	2	1.65	102	0.60
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	<0.03 (LOQ)	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	148	8.9	3.96	98.1	-0.74

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.48	0.17	0.0496	98.2	-1.26
pH value	-	8.13 ± 0.0535	8.362	0.27	0.114	103	2.02
Boron	mg/l	0.0148 ± 0.00184	0.02	0.0038	0.00213	135	2.43
Calcium	mg/l	61.5 ± 0.874	62.7	8.8	1.77	102	0.69
Chloride	mg/l	20.8 ± 0.333	19.8	5	0.71	95.2	-1.40
DOC (as C)	mg/l	2.99 ± 0.0861	3.06	0.76	0.149	102	0.47
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.511	0.051	0.0549	96.8	-0.30
Total hardness	°d	11.7 ± 0.143	11.8	-	0.261	101	0.39
Hydrogen carbonate	mg/l	215 ± 1.49	212	-	3.02	98.4	-1.12
Potassium	mg/l	2.14 ± 0.0444	2.09	0.2	0.0824	97.8	-0.56
El. conductivity (25°C)	µS/c	453 ± 3.01	454	45.4	6.58	100	0.16
Magnesium	mg/l	12.9 ± 0.23	13.3	1.1	0.46	103	0.80

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	13	2.1	0.382	102	0.75
Total nitrogen	mg/l	2.96 ± 0.16	2.65	0.16	0.245	89.4	-1.28
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.126	0.0126	0.0103	93.4	-0.87
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.163	0.0326	0.00823	96.6	-0.69
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.8	0.5	0.468	100	0.09
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.162	0.016	0.00834	77.9	-5.52
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22.8	1.4	0.837	99	-0.27



The following results were achieved:

**Sample: N140A**

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	7.57	-	0.142	98.7	-0.70
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	-	-	3.9	-	-
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	1352	-	20	100	0.04
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.06 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.06 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.6	-	1.65	102	0.48
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.064	-	0.00413	224	8.58
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

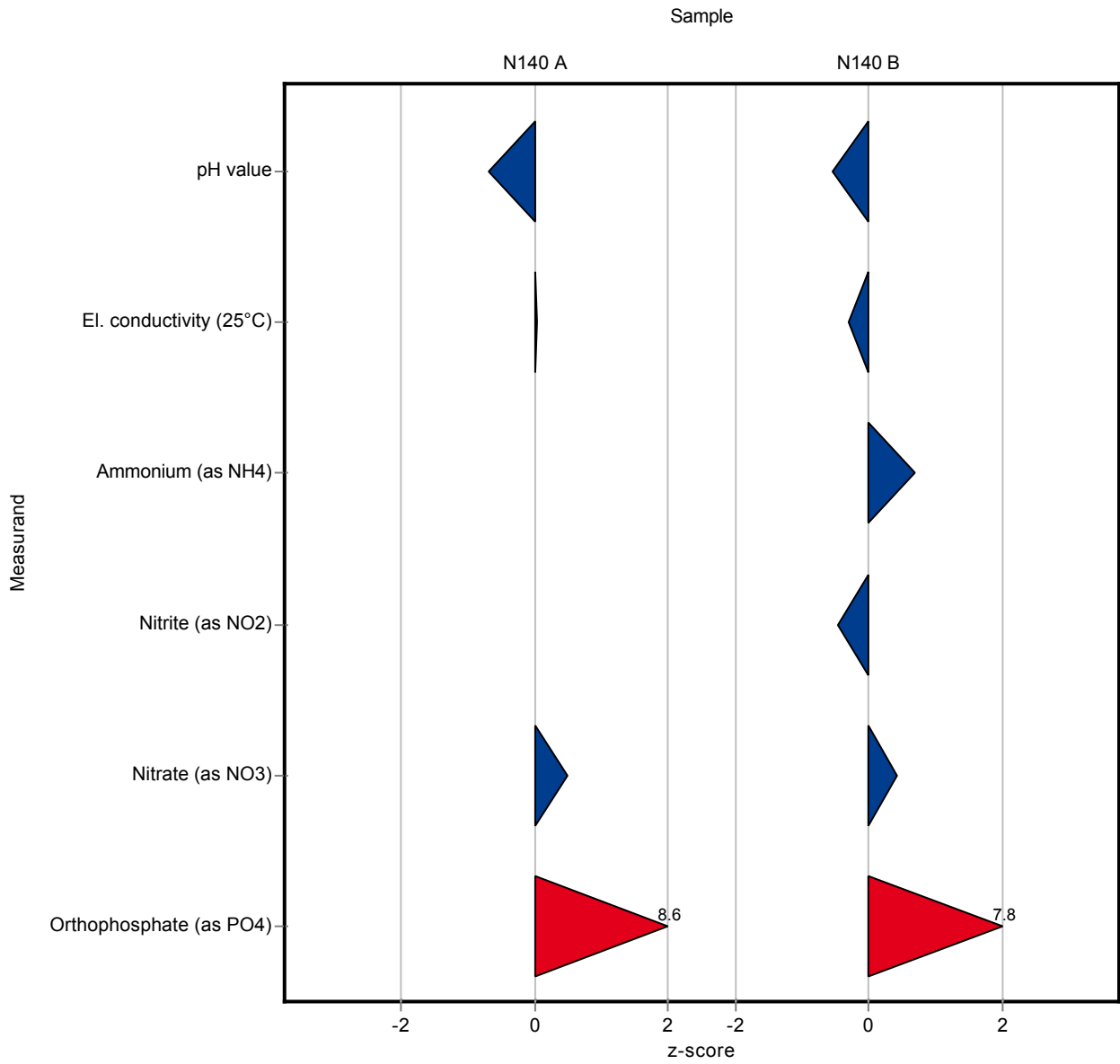
\*see '4 Explanatory notes' for further detail

**Sample: N140B**

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	8.07	-	0.114	99.2	-0.54
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	-	-	0.71	-	-
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	451	-	6.58	99.6	-0.30
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-



Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.142	-	0.0103	105	0.69
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.165	-	0.00823	97.8	-0.45
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.96	-	0.468	102	0.44
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.273	-	0.00834	131	7.78
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-



The following results were achieved:

Sample: N140A

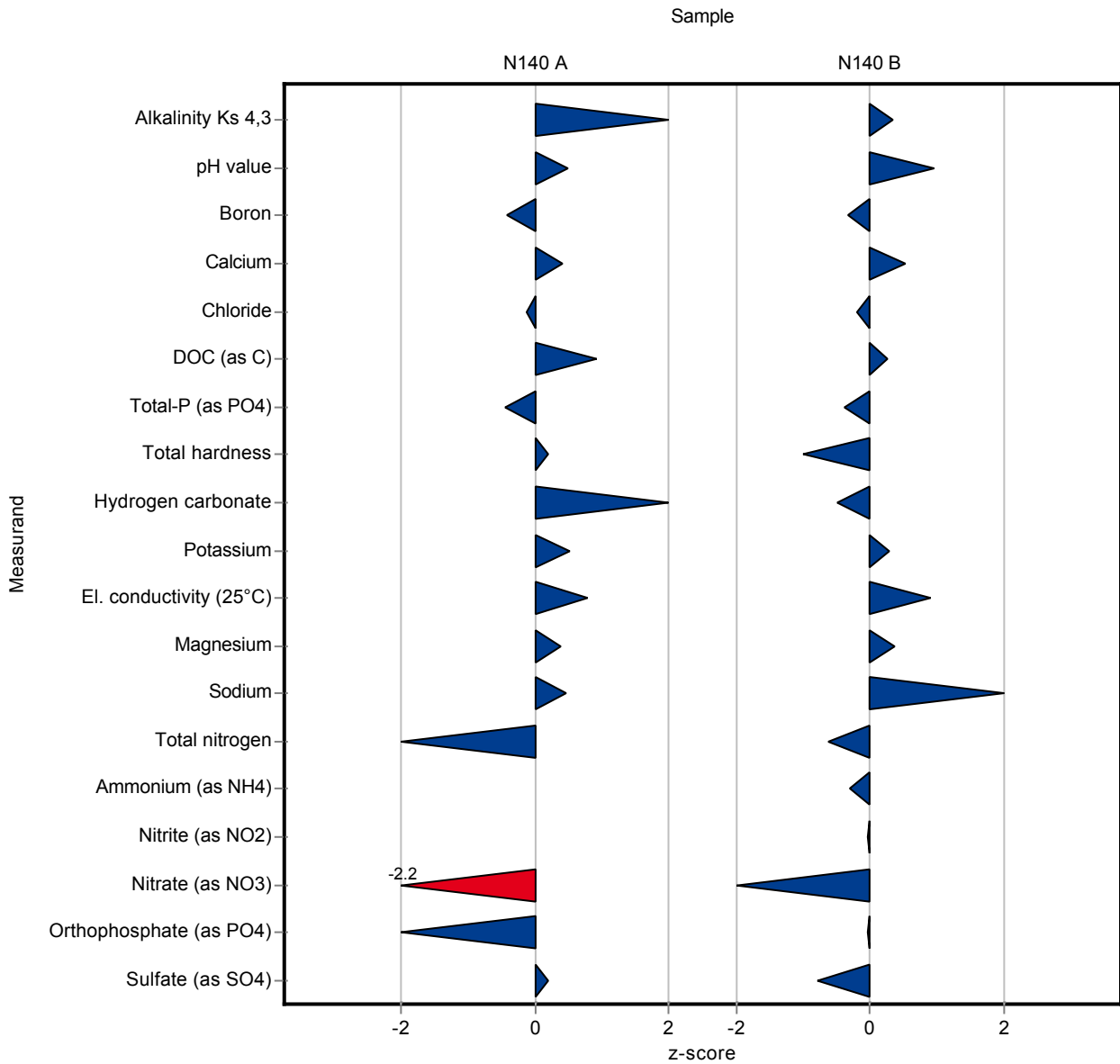
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.74	0.4	0.106	102	1.55
pH value	-	7.67 ± 0.0656	7.74	0.05	0.142	101	0.50
Boron	mg/l	0.128 ± 0.00389	0.126	0.006	0.00535	98.2	-0.43
Calcium	mg/l	149 ± 2.47	150.6	3	5.01	101	0.41
Chloride	mg/l	121 ± 1.83	120.3	6	3.9	99.6	-0.13
DOC (as C)	mg/l	1.19 ± 0.0672	1.3	0.07	0.116	109	0.91
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.0284	0.001	0.0125	83.5	-0.45
Total hardness	°d	36.1 ± 0.463	36.25	2	0.859	100	0.18
Hydrogen carbonate	mg/l	461 ± 2.87	468.99	23	6.45	102	1.24
Potassium	mg/l	5.33 ± 0.136	5.46	0.3	0.26	103	0.52
El. conductivity (25°C)	µS/c	1350 ± 9.38	1367	15	20	101	0.79
Magnesium	mg/l	65.1 ± 0.886	65.8	4.5	1.72	101	0.38
Sodium	mg/l	44.1 ± 0.78	44.8	2.5	1.47	102	0.47
Total nitrogen	mg/l	11.3 ± 0.423	10.18	0.6	0.646	89.7	-1.81
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.013	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.0125	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	45.109	2.5	1.65	92.4	-2.23
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.02376	0.002	0.00413	83.3	-1.16
Sulfate (as SO4)	mg/l	151 ± 2.01	151.7	7.5	3.96	101	0.19

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.56	0.2	0.0496	100	0.35
pH value	-	8.13 ± 0.0535	8.24	0.05	0.114	101	0.95
Boron	mg/l	0.0148 ± 0.00184	0.0141	0.001	0.00213	95.1	-0.34
Calcium	mg/l	61.5 ± 0.874	62.4	2	1.77	102	0.52
Chloride	mg/l	20.8 ± 0.333	20.65	1	0.71	99.3	-0.20
DOC (as C)	mg/l	2.99 ± 0.0861	3.03	0.15	0.149	101	0.27
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.5067	0.02	0.0549	96	-0.38
Total hardness	°d	11.7 ± 0.143	11.44	0.6	0.261	97.8	-0.99
Hydrogen carbonate	mg/l	215 ± 1.49	213.9	10	3.02	99.3	-0.49
Potassium	mg/l	2.14 ± 0.0444	2.16	0.11	0.0824	101	0.29
El. conductivity (25°C)	µS/c	453 ± 3.01	459	5	6.58	101	0.92
Magnesium	mg/l	12.9 ± 0.23	13.1	1	0.46	101	0.36

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	13.1	0.8	0.382	103	1.01
Total nitrogen	mg/l	2.96 ± 0.16	2.81	0.15	0.245	94.8	-0.63
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.132	0.01	0.0103	97.8	-0.29
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.16839	0.008	0.00823	99.8	-0.04
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	10.959	0.55	0.468	93.2	-1.70
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.20774	0.02	0.00834	99.8	-0.04
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22.383	1.1	0.837	97.2	-0.77



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	-	-	0.142	-	-
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	-	-	3.9	-	-
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	-	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	-	-	20	-	-
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	-	-	1.65	-	-
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	-	-	3.96	-	-

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	-	-	0.114	-	-
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	-	-	0.71	-	-
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	-	-	0.0549	-	-
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	-	-	6.58	-	-
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	-	-	0.468	-	-
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	-	-	0.837	-	-

The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.74	0.39	0.106	102	1.55
pH value	-	7.67 ± 0.0656	7.6	0.1	0.142	99.1	-0.49
Boron	mg/l	0.128 ± 0.00389	0.123	0.012	0.00535	95.9	-0.99
Calcium	mg/l	149 ± 2.47	150	7.5	5.01	101	0.29
Chloride	mg/l	121 ± 1.83	121	6.1	3.9	100	0.05
DOC (as C)	mg/l	1.19 ± 0.0672	1.2	0.1	0.116	101	0.05
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.031	0.003	0.0125	91.2	-0.24
Total hardness	°d	36.1 ± 0.463	35.1	1.8	0.859	97.3	-1.15
Hydrogen carbonate	mg/l	461 ± 2.87	469	23	6.45	102	1.24
Potassium	mg/l	5.33 ± 0.136	7.6	0.8	0.26	143	8.76
El. conductivity (25°C)	µS/c	1350 ± 9.38	1371	27	20	101	0.98
Magnesium	mg/l	65.1 ± 0.886	61.4	3.1	1.72	94.3	-2.17
Sodium	mg/l	44.1 ± 0.78	41.7	2.2	1.47	94.6	-1.63
Total nitrogen	mg/l	11.3 ± 0.423	11.1	1.1	0.646	97.8	-0.38
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.03 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.01 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	48.7	2.4	1.65	99.8	-0.06
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.027	0.003	0.00413	94.6	-0.37
Sulfate (as SO4)	mg/l	151 ± 2.01	150	7.5	3.96	99.4	-0.24

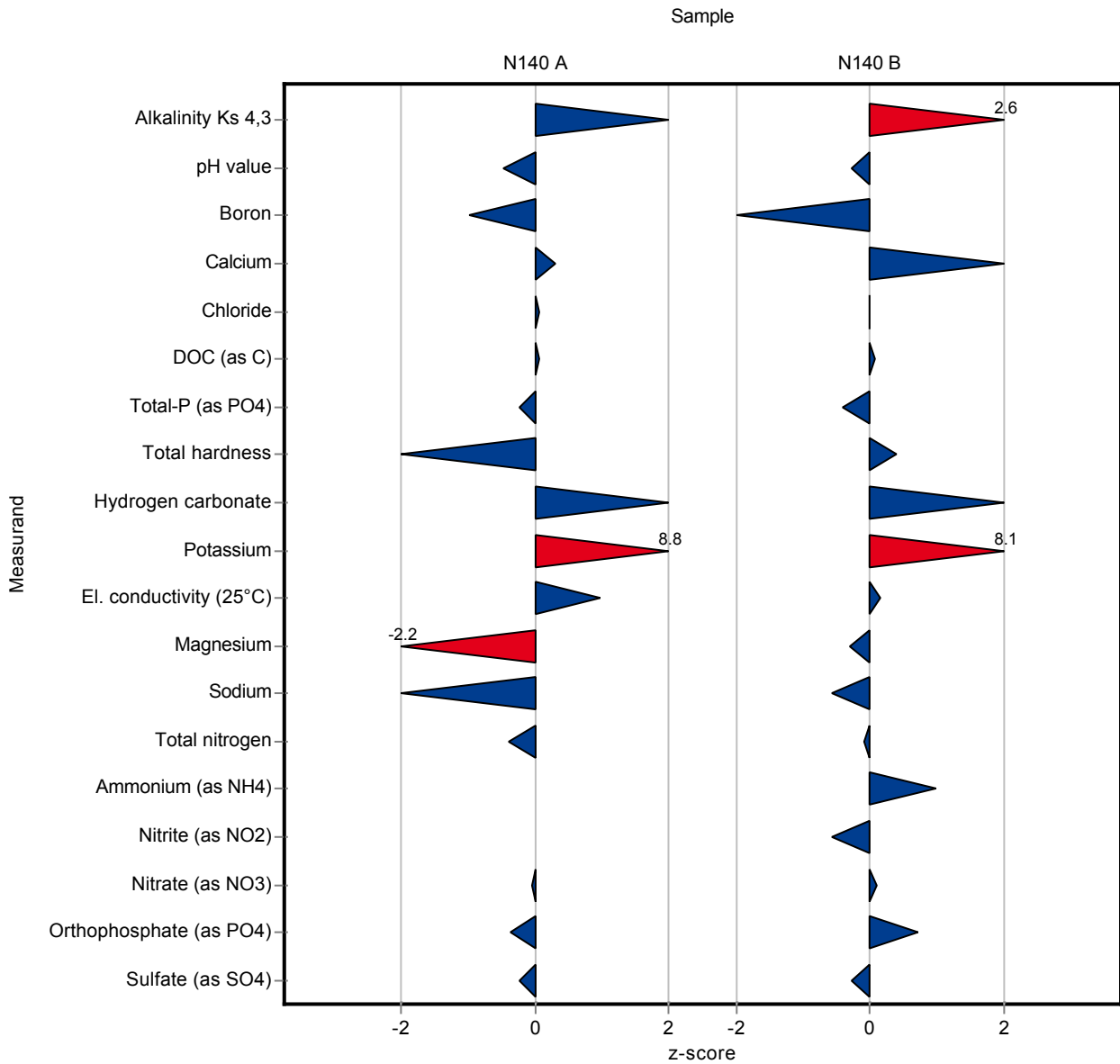
\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.67	0.18	0.0496	104	2.57
pH value	-	8.13 ± 0.0535	8.1	0.1	0.114	99.6	-0.28
Boron	mg/l	0.0148 ± 0.00184	0.012	0.002	0.00213	80.9	-1.33
Calcium	mg/l	61.5 ± 0.874	63.5	3.2	1.77	103	1.14
Chloride	mg/l	20.8 ± 0.333	20.8	1.1	0.71	100	0.01
DOC (as C)	mg/l	2.99 ± 0.0861	3	0.3	0.149	100	0.07
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.506	0.051	0.0549	95.9	-0.40
Total hardness	°d	11.7 ± 0.143	11.8	0.6	0.261	101	0.39
Hydrogen carbonate	mg/l	215 ± 1.49	221	11	3.02	103	1.86
Potassium	mg/l	2.14 ± 0.0444	2.8	0.3	0.0824	131	8.05
El. conductivity (25°C)	µS/c	453 ± 3.01	454	9	6.58	100	0.16
Magnesium	mg/l	12.9 ± 0.23	12.8	0.6	0.46	99	-0.29



Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.5	0.6	0.382	98.3	-0.56
Total nitrogen	mg/l	2.96 ± 0.16	2.94	0.3	0.245	99.2	-0.10
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.145	0.015	0.0103	107	0.98
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.164	0.016	0.00823	97.2	-0.57
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.8	0.6	0.468	100	0.09
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.214	0.021	0.00834	103	0.71
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22.8	1.1	0.837	99	-0.27



The following results were achieved:

Sample: N140A

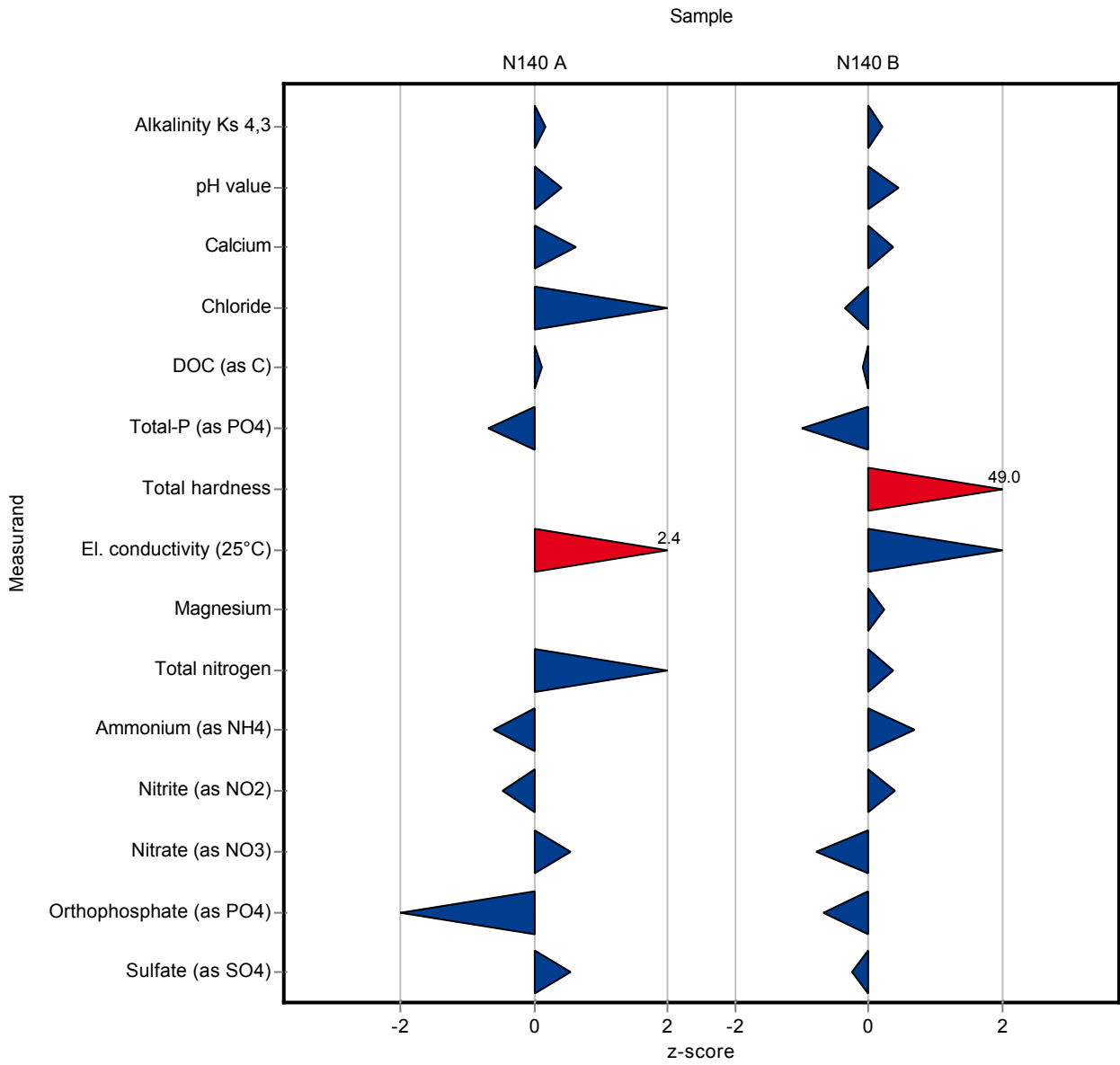
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.593	0.15	0.106	100	0.17
pH value	-	7.67 ± 0.0656	7.728	0.01	0.142	101	0.41
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	151.63	3	5.01	102	0.62
Chloride	mg/l	121 ± 1.83	127.66	1	3.9	106	1.76
DOC (as C)	mg/l	1.19 ± 0.0672	1.206	0.03	0.116	101	0.10
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.0255	0.002	0.0125	75	-0.68
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	1399.7	7	20	104	2.42
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	12.03	0.4	0.646	106	1.05
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	0.0069	0.002	0.0181	38.5	-0.61
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	0.00438	0.002	0.00102	89.8	-0.49
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.708	0.8	1.65	102	0.55
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.0215	0.002	0.00413	75.3	-1.70
Sulfate (as SO4)	mg/l	151 ± 2.01	153.05	1	3.96	101	0.54

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.553	0.07	0.0496	100	0.21
pH value	-	8.13 ± 0.0535	8.183	0.01	0.114	101	0.45
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	62.12	1.2	1.77	101	0.36
Chloride	mg/l	20.8 ± 0.333	20.54	0.2	0.71	98.8	-0.36
DOC (as C)	mg/l	2.99 ± 0.0861	2.977	0.06	0.149	99.6	-0.08
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.4732	0.002	0.0549	89.7	-0.99
Total hardness	°d	11.7 ± 0.143	24.48	0.4	0.261	209	49.00
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	462	2	6.58	102	1.37
Magnesium	mg/l	12.9 ± 0.23	13.04	0.4	0.46	101	0.23

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	3.057	0.2	0.245	103	0.38
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.1421	0.003	0.0103	105	0.70
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.1719	0.008	0.00823	102	0.39
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.388	0.4	0.468	96.9	-0.79
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.2024	0.004	0.00834	97.3	-0.68
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22.82	0.2	0.837	99.1	-0.25



The following results were achieved:

Sample: N140A

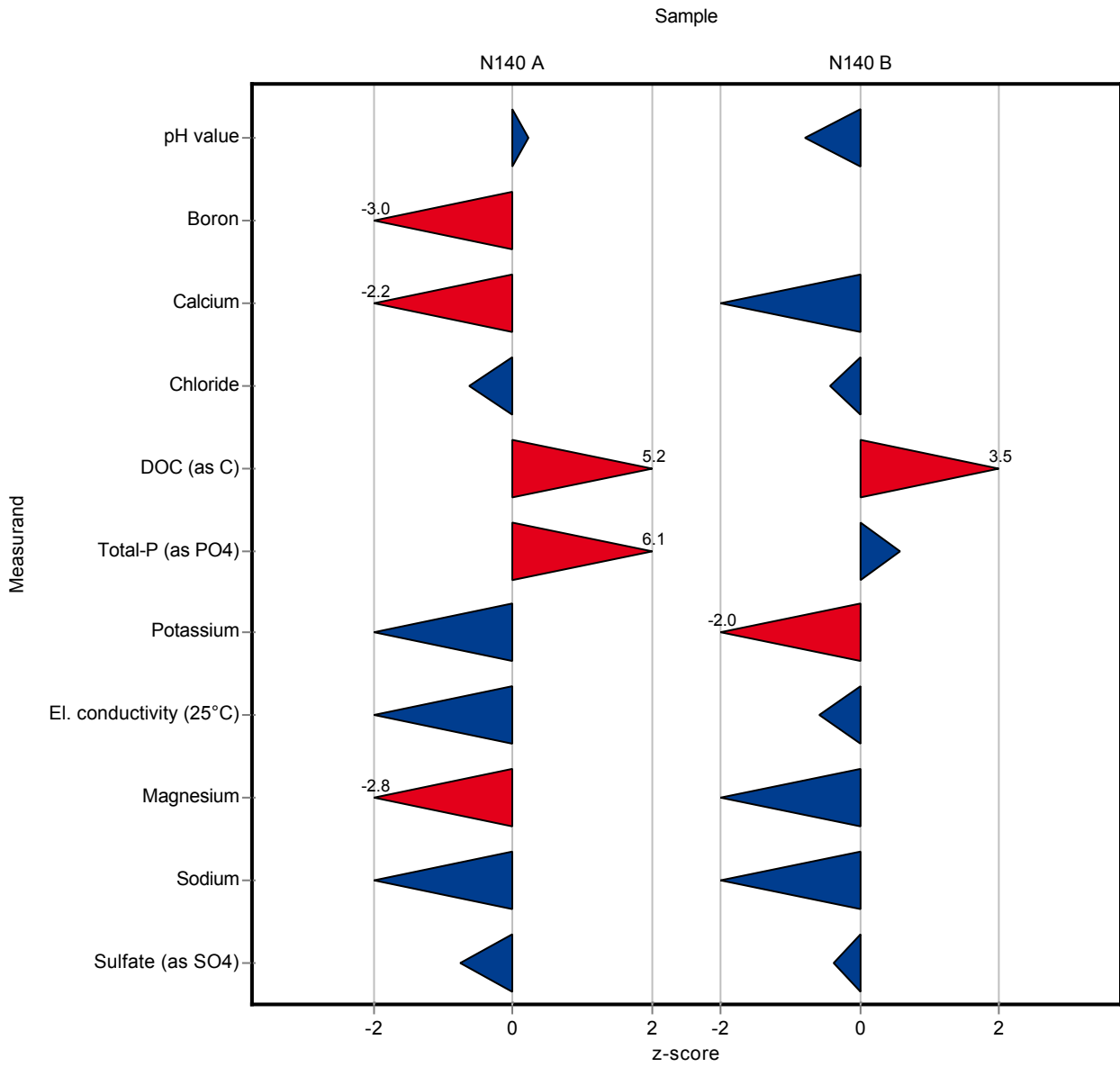
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	-	-	0.106	-	-
pH value	-	7.67 ± 0.0656	7.7	0.2	0.142	100	0.22
Boron	mg/l	0.128 ± 0.00389	0.112	0.0187	0.00535	87.3	-3.05
Calcium	mg/l	149 ± 2.47	137.7	8.37	5.01	92.7	-2.16
Chloride	mg/l	121 ± 1.83	118.31	4.79	3.9	97.9	-0.63
DOC (as C)	mg/l	1.19 ± 0.0672	1.803	0.198	0.116	151	5.23
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.111	0.006	0.0125	326	6.15
Total hardness	°d	36.1 ± 0.463	-	-	0.859	-	-
Hydrogen carbonate	mg/l	461 ± 2.87	-	-	6.45	-	-
Potassium	mg/l	5.33 ± 0.136	4.997	0.308	0.26	93.8	-1.27
El. conductivity (25°C)	µS/c	1350 ± 9.38	1330	53.2	20	98.4	-1.06
Magnesium	mg/l	65.1 ± 0.886	60.32	4.25	1.72	92.6	-2.80
Sodium	mg/l	44.1 ± 0.78	41.7	4.67	1.47	94.6	-1.63
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	-	-	1.65	-	-
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	147.9	9.17	3.96	98	-0.77

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	-	-	0.0496	-	-
pH value	-	8.13 ± 0.0535	8.04	0.2	0.114	98.9	-0.80
Boron	mg/l	0.0148 ± 0.00184	<0.05 (LOQ)	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	57.93	3.52	1.77	94.2	-2.00
Chloride	mg/l	20.8 ± 0.333	20.48	0.83	0.71	98.5	-0.44
DOC (as C)	mg/l	2.99 ± 0.0861	3.508	0.386	0.149	117	3.48
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.559	0.032	0.0549	106	0.57
Total hardness	°d	11.7 ± 0.143	-	-	0.261	-	-
Hydrogen carbonate	mg/l	215 ± 1.49	-	-	3.02	-	-
Potassium	mg/l	2.14 ± 0.0444	1.969	0.121	0.0824	92.2	-2.03
El. conductivity (25°C)	µS/c	453 ± 3.01	449	17.96	6.58	99.1	-0.60
Magnesium	mg/l	12.9 ± 0.23	12.31	0.87	0.46	95.2	-1.35

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.24	1.37	0.382	96.3	-1.24
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	-	-	0.468	-	-
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22.7	1.41	0.837	98.6	-0.39





The following results were achieved:

Sample: N140A

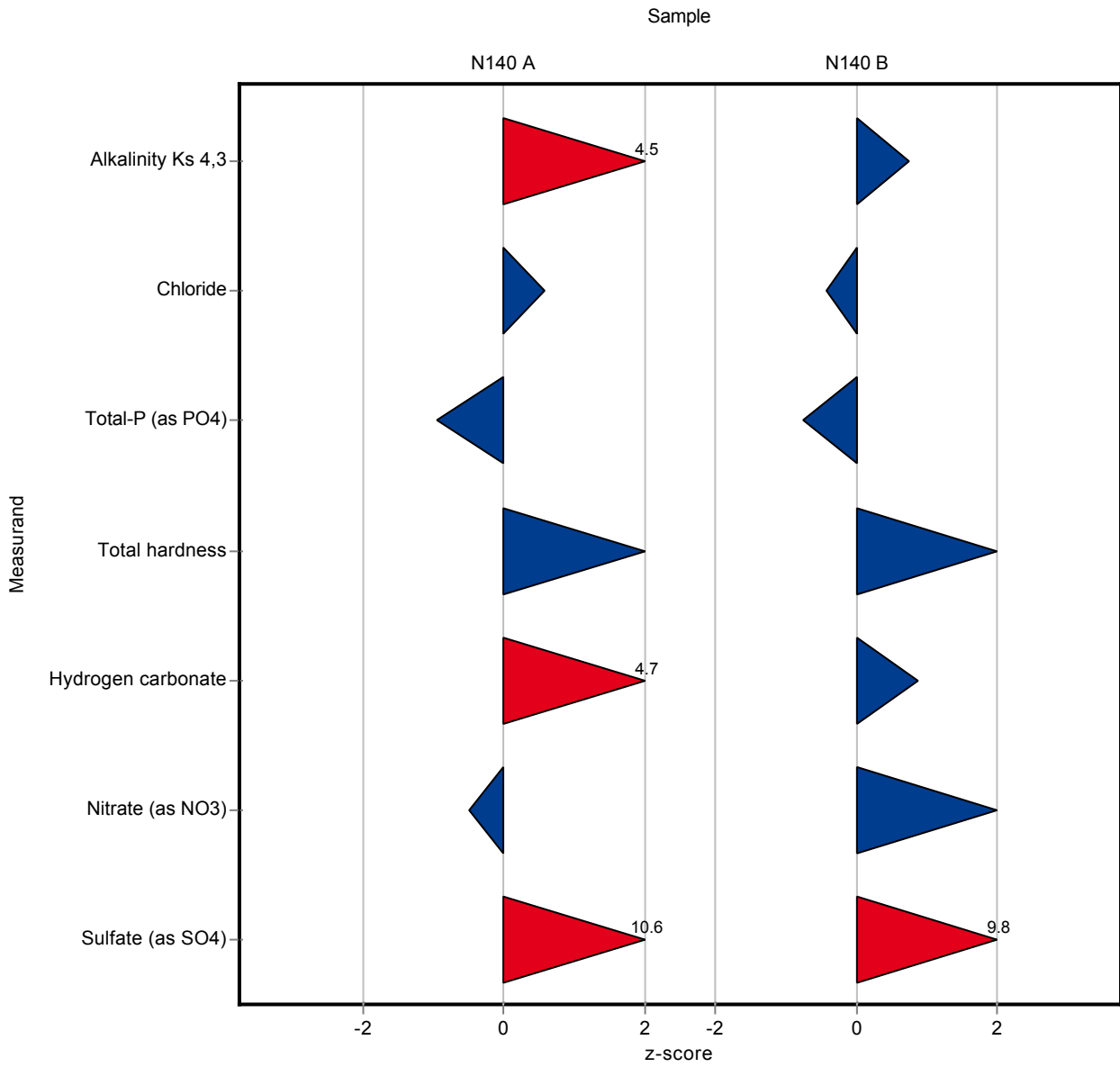
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	8.05	-	0.106	106	4.47
pH value	-	7.67 ± 0.0656	-	-	0.142	-	-
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	-	-	5.01	-	-
Chloride	mg/l	121 ± 1.83	123	-	3.9	102	0.57
DOC (as C)	mg/l	1.19 ± 0.0672	-	-	0.116	-	-
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.022	-	0.0125	64.7	-0.96
Total hardness	°d	36.1 ± 0.463	37.2	-	0.859	103	1.29
Hydrogen carbonate	mg/l	461 ± 2.87	491	-	6.45	107	4.65
Potassium	mg/l	5.33 ± 0.136	-	-	0.26	-	-
El. conductivity (25°C)	µS/c	1350 ± 9.38	-	-	20	-	-
Magnesium	mg/l	65.1 ± 0.886	-	-	1.72	-	-
Sodium	mg/l	44.1 ± 0.78	-	-	1.47	-	-
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	-	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	-	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	48	-	1.65	98.4	-0.48
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	-	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	193	-	3.96	128	10.60

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.58	-	0.0496	101	0.75
pH value	-	8.13 ± 0.0535	-	-	0.114	-	-
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	-	-	1.77	-	-
Chloride	mg/l	20.8 ± 0.333	20.5	-	0.71	98.6	-0.42
DOC (as C)	mg/l	2.99 ± 0.0861	-	-	0.149	-	-
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.486	-	0.0549	92.1	-0.76
Total hardness	°d	11.7 ± 0.143	12	-	0.261	103	1.16
Hydrogen carbonate	mg/l	215 ± 1.49	218	-	3.02	101	0.87
Potassium	mg/l	2.14 ± 0.0444	-	-	0.0824	-	-
El. conductivity (25°C)	µS/c	453 ± 3.01	-	-	6.58	-	-
Magnesium	mg/l	12.9 ± 0.23	-	-	0.46	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	-	-	0.382	-	-
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	-	-	0.0103	-	-
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	-	-	0.00823	-	-
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.4	-	0.468	105	1.38
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	31.2	-	0.837	135	9.76



The following results were achieved:

Sample: N140A

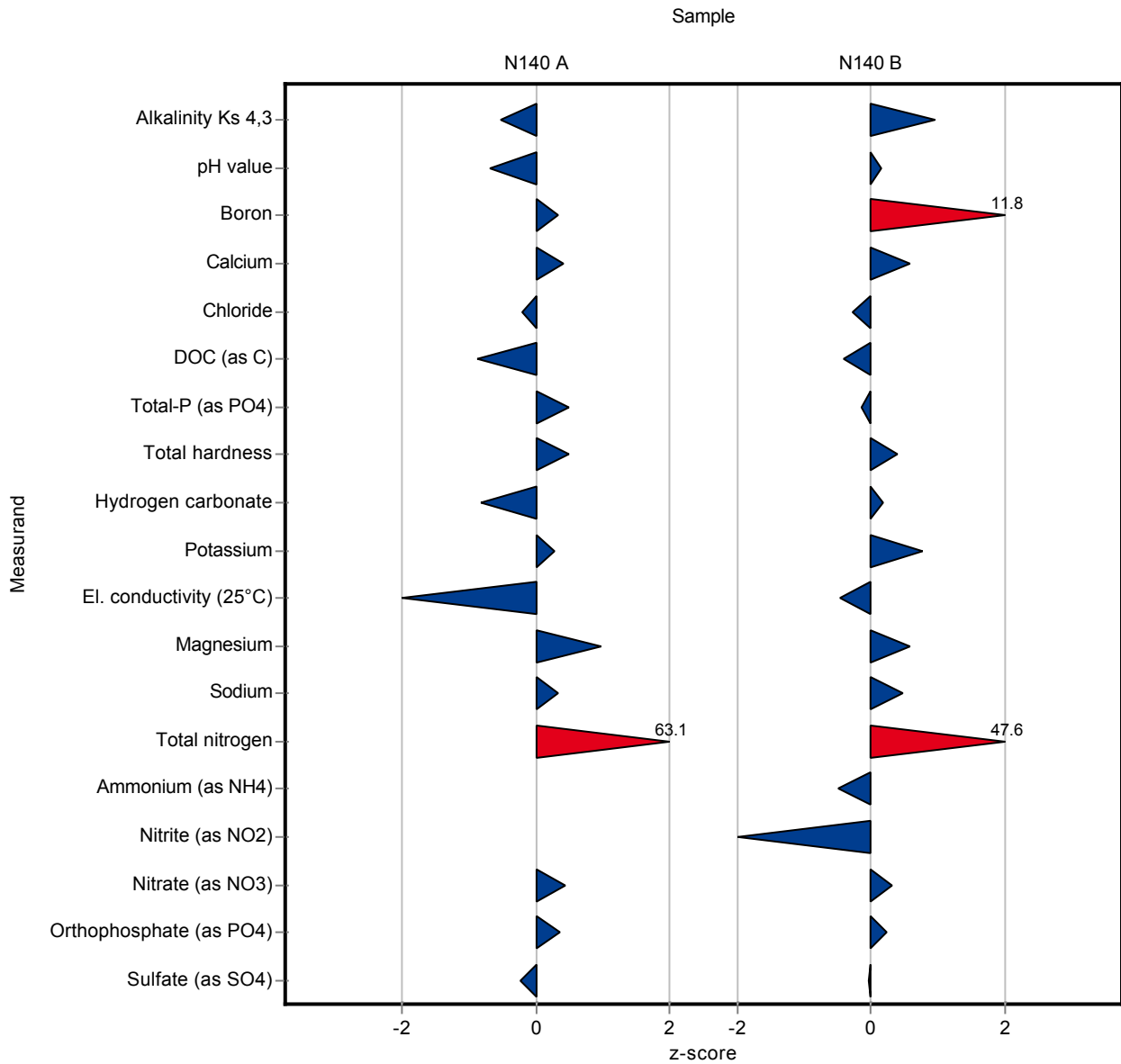
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.52	0.05	0.106	99.3	-0.52
pH value	-	7.67 ± 0.0656	7.57	0.011	0.142	98.7	-0.70
Boron	mg/l	0.128 ± 0.00389	0.13	0.013	0.00535	101	0.32
Calcium	mg/l	149 ± 2.47	150.6	2.2	5.01	101	0.41
Chloride	mg/l	121 ± 1.83	120	2.9	3.9	99.3	-0.20
DOC (as C)	mg/l	1.19 ± 0.0672	1.09	0.1	0.116	91.3	-0.89
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.04	0.004	0.0125	118	0.48
Total hardness	°d	36.1 ± 0.463	36.5	0.6	0.859	101	0.48
Hydrogen carbonate	mg/l	461 ± 2.87	455.7	3	6.45	98.9	-0.82
Potassium	mg/l	5.33 ± 0.136	5.4	0.2	0.26	101	0.28
El. conductivity (25°C)	µS/c	1350 ± 9.38	1330	4	20	98.4	-1.06
Magnesium	mg/l	65.1 ± 0.886	66.8	2.7	1.72	103	0.96
Sodium	mg/l	44.1 ± 0.78	44.6	0.7	1.47	101	0.34
Total nitrogen	mg/l	11.3 ± 0.423	52.1	2.88	0.646	459	63.10
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.01 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.01 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.5	1.3	1.65	101	0.42
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.03	0.002	0.00413	105	0.35
Sulfate (as SO4)	mg/l	151 ± 2.01	150	3.6	3.96	99.4	-0.24

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.59	0.02	0.0496	101	0.95
pH value	-	8.13 ± 0.0535	8.15	0.012	0.114	100	0.16
Boron	mg/l	0.0148 ± 0.00184	0.04	0.004	0.00213	270	11.80
Calcium	mg/l	61.5 ± 0.874	62.5	0.9	1.77	102	0.58
Chloride	mg/l	20.8 ± 0.333	20.6	0.5	0.71	99.1	-0.28
DOC (as C)	mg/l	2.99 ± 0.0861	2.93	0.27	0.149	98	-0.40
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.52	0.05	0.0549	98.5	-0.14
Total hardness	°d	11.7 ± 0.143	11.8	0.2	0.261	101	0.39
Hydrogen carbonate	mg/l	215 ± 1.49	215.9	1.4	3.02	100	0.17
Potassium	mg/l	2.14 ± 0.0444	2.2	0.1	0.0824	103	0.77
El. conductivity (25°C)	µS/c	453 ± 3.01	450	1	6.58	99.3	-0.45
Magnesium	mg/l	12.9 ± 0.23	13.2	0.5	0.46	102	0.58

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.9	0.2	0.382	101	0.48
Total nitrogen	mg/l	2.96 ± 0.16	14.6	0.81	0.245	493	47.60
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.13	0.006	0.0103	96.3	-0.48
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.16	0.009	0.00823	94.8	-1.06
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.9	0.3	0.468	101	0.31
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.21	0.02	0.00834	101	0.23
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	23	0.6	0.837	99.9	-0.03



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.58	0.38	0.106	100	0.04
pH value	-	7.67 ± 0.0656	7.75	0.3	0.142	101	0.57
Boron	mg/l	0.128 ± 0.00389	0.13	0.013	0.00535	101	0.32
Calcium	mg/l	149 ± 2.47	148	13	5.01	99.6	-0.11
Chloride	mg/l	121 ± 1.83	122	6	3.9	101	0.31
DOC (as C)	mg/l	1.19 ± 0.0672	1.15	0.11	0.116	96.3	-0.38
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.027	0.003	0.0125	79.4	-0.56
Total hardness	°d	36.1 ± 0.463	35.3	3.8	0.859	97.8	-0.92
Hydrogen carbonate	mg/l	461 ± 2.87	459	23	6.45	99.6	-0.31
Potassium	mg/l	5.33 ± 0.136	5.19	0.42	0.26	97.4	-0.52
El. conductivity (25°C)	µS/c	1350 ± 9.38	1348	40	20	99.8	-0.16
Magnesium	mg/l	65.1 ± 0.886	63.3	5.1	1.72	97.2	-1.07
Sodium	mg/l	44.1 ± 0.78	43.6	3.5	1.47	98.9	-0.34
Total nitrogen	mg/l	11.3 ± 0.423	11.3	1.1	0.646	99.6	-0.07
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.008	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.008	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	49.6	4.5	1.65	102	0.48
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.027	0.003	0.00413	94.6	-0.37
Sulfate (as SO4)	mg/l	151 ± 2.01	152	8	3.96	101	0.27

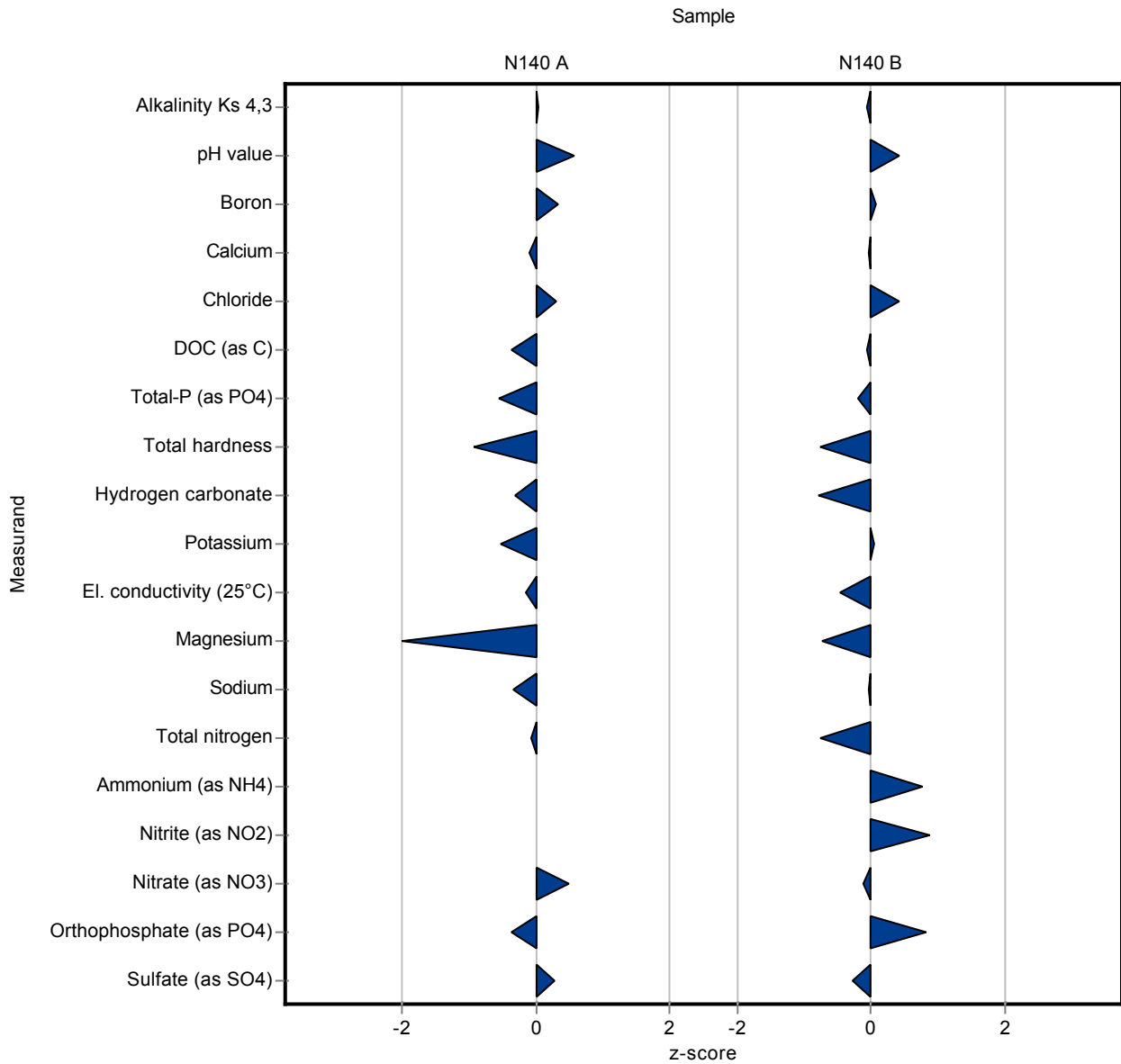
\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.54	0.18	0.0496	99.9	-0.05
pH value	-	8.13 ± 0.0535	8.18	0.3	0.114	101	0.42
Boron	mg/l	0.0148 ± 0.00184	0.015	0.003	0.00213	101	0.08
Calcium	mg/l	61.5 ± 0.874	61.4	5.6	1.77	99.9	-0.04
Chloride	mg/l	20.8 ± 0.333	21.1	1.1	0.71	101	0.43
DOC (as C)	mg/l	2.99 ± 0.0861	2.98	0.27	0.149	99.7	-0.06
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.517	0.05	0.0549	98	-0.20
Total hardness	°d	11.7 ± 0.143	11.5	1.3	0.261	98.3	-0.76
Hydrogen carbonate	mg/l	215 ± 1.49	213	11	3.02	98.9	-0.79
Potassium	mg/l	2.14 ± 0.0444	2.14	0.18	0.0824	100	0.04
El. conductivity (25°C)	µS/c	453 ± 3.01	450	13	6.58	99.3	-0.45
Magnesium	mg/l	12.9 ± 0.23	12.6	1.1	0.46	97.4	-0.72

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.7	1.1	0.382	99.9	-0.04
Total nitrogen	mg/l	2.96 ± 0.16	2.78	0.28	0.245	93.8	-0.75
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.143	0.015	0.0103	106	0.79
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.176	0.018	0.00823	104	0.88
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.7	1.2	0.468	99.5	-0.12
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.215	0.021	0.00834	103	0.83
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	22.8	1.2	0.837	99	-0.27





The following results were achieved:

Sample: N140A

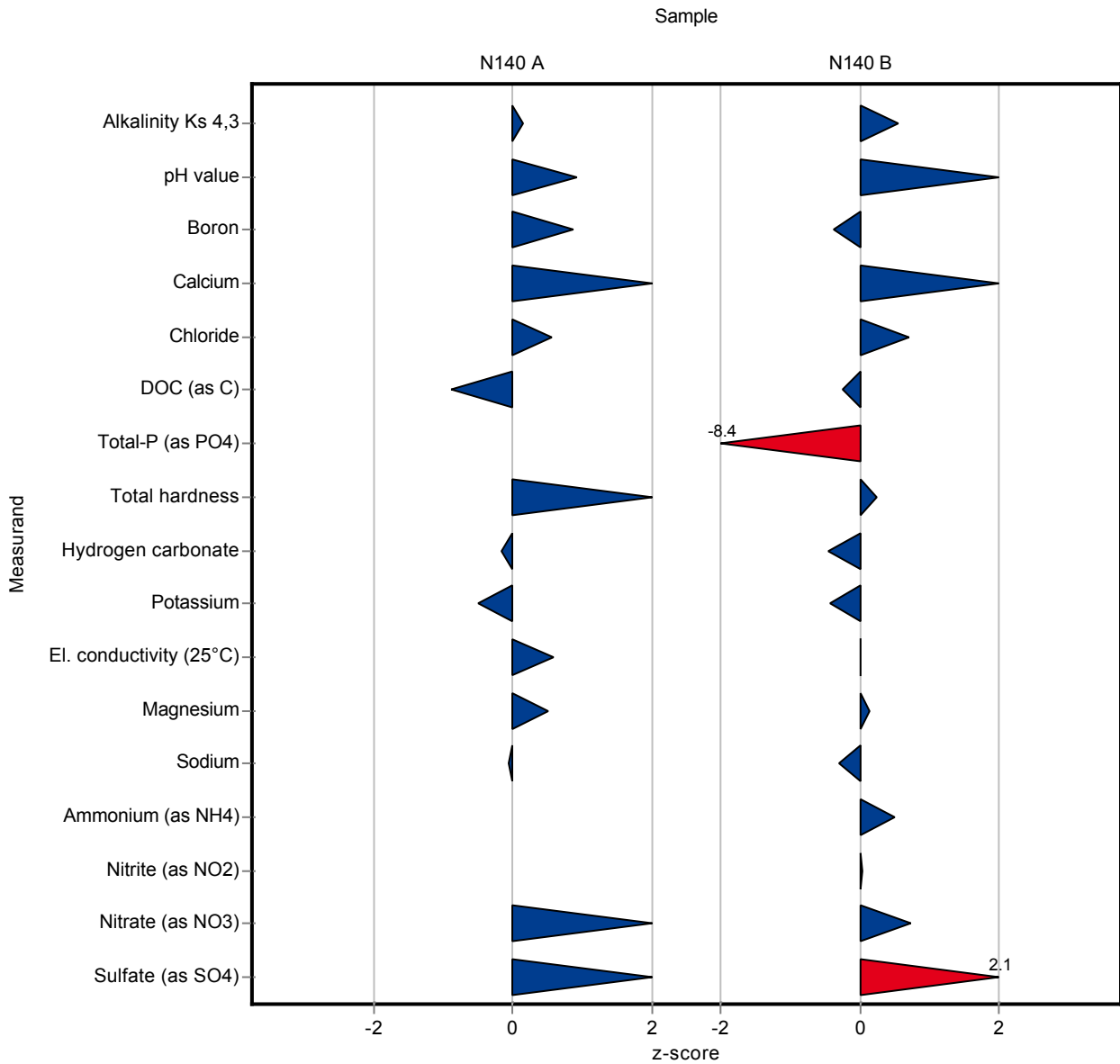
Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.59	0.721	0.106	100	0.14
pH value	-	7.67 ± 0.0656	7.8	0.78	0.142	102	0.92
Boron	mg/l	0.128 ± 0.00389	0.133	0.0186	0.00535	104	0.88
Calcium	mg/l	149 ± 2.47	154	9.2	5.01	104	1.09
Chloride	mg/l	121 ± 1.83	123	11.1	3.9	102	0.57
DOC (as C)	mg/l	1.19 ± 0.0672	1.09	0.066	0.116	91.3	-0.89
Total-P (as PO4)	mg/l	0.034 ± 0.00767	<0.061	-	0.0125	-	-
Total hardness	°d	36.1 ± 0.463	37.07	2.78	0.859	103	1.14
Hydrogen carbonate	mg/l	461 ± 2.87	460	43.7	6.45	99.8	-0.15
Potassium	mg/l	5.33 ± 0.136	5.2	0.52	0.26	97.6	-0.49
El. conductivity (25°C)	µS/c	1350 ± 9.38	1363	81.8	20	101	0.58
Magnesium	mg/l	65.1 ± 0.886	66	7.9	1.72	101	0.50
Sodium	mg/l	44.1 ± 0.78	44	2.8	1.47	99.8	-0.07
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.04 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.01 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	51	5.3	1.65	105	1.33
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	<0.061	-	0.00413	-	-
Sulfate (as SO4)	mg/l	151 ± 2.01	158	14.2	3.96	105	1.79

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.57	0.339	0.0496	101	0.55
pH value	-	8.13 ± 0.0535	8.3	0.83	0.114	102	1.48
Boron	mg/l	0.0148 ± 0.00184	0.014	0.0019	0.00213	94.4	-0.39
Calcium	mg/l	61.5 ± 0.874	64	3.8	1.77	104	1.43
Chloride	mg/l	20.8 ± 0.333	21.3	1.9	0.71	102	0.71
DOC (as C)	mg/l	2.99 ± 0.0861	2.95	0.177	0.149	98.7	-0.26
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.064	0.0064	0.0549	12.1	-8.45
Total hardness	°d	11.7 ± 0.143	11.76	0.882	0.261	101	0.24
Hydrogen carbonate	mg/l	215 ± 1.49	214	20.4	3.02	99.4	-0.46
Potassium	mg/l	2.14 ± 0.0444	2.1	0.21	0.0824	98.3	-0.44
El. conductivity (25°C)	µS/c	453 ± 3.01	453	27.2	6.58	100	0.01
Magnesium	mg/l	12.9 ± 0.23	13	1.6	0.46	101	0.15

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	12.6	0.82	0.382	99.1	-0.30
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.14	0.014	0.0103	104	0.49
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.169	0.0169	0.00823	100	0.03
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	12.1	1.27	0.468	103	0.74
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	-	-	0.00834	-	-
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	24.8	2.23	0.837	108	2.12



The following results were achieved:

Sample: N140A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	7.58 ± 0.0376	7.59	0.53	0.106	100	0.14
pH value	-	7.67 ± 0.0656	7.6	0.14	0.142	99.1	-0.49
Boron	mg/l	0.128 ± 0.00389	-	-	0.00535	-	-
Calcium	mg/l	149 ± 2.47	142.1	11.4	5.01	95.7	-1.28
Chloride	mg/l	121 ± 1.83	114.6	8	3.9	94.9	-1.58
DOC (as C)	mg/l	1.19 ± 0.0672	1.27	0.2	0.116	106	0.66
Total-P (as PO4)	mg/l	0.034 ± 0.00767	0.009	0.002	0.0125	26.5	-2.00
Total hardness	°d	36.1 ± 0.463	35.1	3.5	0.859	97.3	-1.15
Hydrogen carbonate	mg/l	461 ± 2.87	459.6	37	6.45	99.7	-0.21
Potassium	mg/l	5.33 ± 0.136	5.5	0.44	0.26	103	0.67
El. conductivity (25°C)	µS/c	1350 ± 9.38	1353	27	20	100	0.09
Magnesium	mg/l	65.1 ± 0.886	66.3	2.7	1.72	102	0.68
Sodium	mg/l	44.1 ± 0.78	45.5	1.8	1.47	103	0.95
Total nitrogen	mg/l	11.3 ± 0.423	-	-	0.646	-	-
Ammonium (as NH4)	mg/l	0.0179* ± 0.0205	<0.02 (LOQ)	-	0.0181	-	-
Nitrite (as NO2)	mg/l	0.00488 ± 0.000924	<0.01 (LOQ)	-	0.00102	-	-
Nitrate (as NO3)	mg/l	48.8 ± 0.756	48.3	3.4	1.65	99	-0.30
Orthophosphate (as PO4)	mg/l	0.0285 ± 0.00248	0.029	0.004	0.00413	102	0.11
Sulfate (as SO4)	mg/l	151 ± 2.01	148.8	8.9	3.96	98.6	-0.54

\*see '4 Explanatory notes' for further detail

Sample: N140B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Alkalinity Ks 4,3	mmol/l	3.54 ± 0.0168	3.67	0.26	0.0496	104	2.57
pH value	-	8.13 ± 0.0535	8	0.14	0.114	98.4	-1.15
Boron	mg/l	0.0148 ± 0.00184	-	-	0.00213	-	-
Calcium	mg/l	61.5 ± 0.874	60.3	2.4	1.77	98.1	-0.66
Chloride	mg/l	20.8 ± 0.333	18.2	1.3	0.71	87.5	-3.66
DOC (as C)	mg/l	2.99 ± 0.0861	3.1	0.5	0.149	104	0.74
Total-P (as PO4)	mg/l	0.528 ± 0.0306	0.521	0.068	0.0549	98.7	-0.12
Total hardness	°d	11.7 ± 0.143	11.4	1.1	0.261	97.5	-1.14
Hydrogen carbonate	mg/l	215 ± 1.49	220.6	18	3.02	102	1.73
Potassium	mg/l	2.14 ± 0.0444	2.2	0.18	0.0824	103	0.77
El. conductivity (25°C)	µS/c	453 ± 3.01	450	9	6.58	99.3	-0.45
Magnesium	mg/l	12.9 ± 0.23	12.9	0.5	0.46	99.7	-0.07

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Sodium	mg/l	12.7 ± 0.206	13	0.5	0.382	102	0.75
Total nitrogen	mg/l	2.96 ± 0.16	-	-	0.245	-	-
Ammonium (as NH <sub>4</sub> )	mg/l	0.135 ± 0.0052	0.157	0.05	0.0103	116	2.15
Nitrite (as NO <sub>2</sub> )	mg/l	0.169 ± 0.00418	0.168	0.02	0.00823	99.6	-0.09
Nitrate (as NO <sub>3</sub> )	mg/l	11.8 ± 0.212	11.9	0.5	0.468	101	0.31
Orthophosphate (as PO <sub>4</sub> )	mg/l	0.208 ± 0.00465	0.209	0.031	0.00834	100	0.11
Sulfate (as SO <sub>4</sub> )	mg/l	23 ± 0.419	21.5	1.3	0.837	93.4	-1.83

