

**EVALUATION OF THE  
INTERLABORATORY COMPARISON  
TEST  
Metals M130**

Sample dispatch on 9<sup>th</sup> February 2016

**Address:** Umweltbundesamt GmbH  
Spittelauer Lände 5  
1090 Vienna/Austria

**Contact:** Dipl.-Ing. (FH) Sebastian Köppel

**Telephone:** +43 (0) 1 31304 4334

**E-mail:** ringversuche@umweltbundesamt.at

**Website:** [www.umweltbundesamt.at/leistungen](http://www.umweltbundesamt.at/leistungen)  
[www.imatest.at](http://www.imatest.at)

**Management:**  
Dipl.-Ing. Monika Denner

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## 1 Interlaboratory comparison test: Metals – M130

### 1.1 Participants and time schedule

- Number of registrations: 29
- Number of submitted data records: 29
- Dispatch of samples: 9<sup>th</sup> of February 2016
- Closing date for submission of data: 8<sup>th</sup> of March 2016

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 8<sup>th</sup> February 2016.

The following samples were made available

- Sample M130 A – ground water
- Sample M130 B – 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 stabilized with HNO<sub>3</sub> (pH < 2) and dispatched on 9<sup>th</sup> of February 2016.

Each participant received:

- 2 samples (each 300 ml), each filled in 300 ml PE-HD 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 ± U.

## 2 Evaluation

The analytical results had to be made available to the organiser not later than 8<sup>th</sup> of March 2016. 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. 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-Score

z-Scores were calculated on the basis of the following formula:

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

In this context,

$x_i$  is the measurement value of the participating laboratory.

$\bar{X}$  is the adjusted average value (i.e. after removal of outliers) of the participants' results.

$SD$  is the reproducibility standard deviation, calculated from the participants' results (after removal of outliers) in the relevant test round.

### 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 evaluation 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 (see 5 Explanatory notes on the parameter oriented report)

### 4 Explanatory notes

As explained in the paragraph evaluation (page 5), the z-Score is calculated using the reproducibility standard deviation, calculated from the participants' results (after removal of outliers) in the relevant test round. As a consequence it might occur that the z-Score between -2 and 2 covers an extraordinary range, due to a high variance of the results.

The recovery rate is calculated for the individual result based on the target value. Therefore, in the case of a high variance of the results, participants should also consider recovery rates as an indicator for the necessity of internal quality assurance measures.

- Cf. aluminum sample M130 A, lead sample M130 B, iron sample M130 A, mercury sample M130 B

Sample M130 A: For the parameters cadmium and mercury no target value was calculated because of the low analyte content and the small number of submitted results.

Parameter lead: The results of M130 A and M 130 B are relatively low and both samples show comparable lead concentrations. When comparing the relative reproducibility standard deviation (RSD) of the samples it is noticeable that the RSD of sample M130 B exceeds the RSD of sample M130 A by a factor of about 3.6.

Due to analytical problems there is no control test value for manganese.

## 5 Annotations on tables and charts

### 5.1 Information and abbreviations in tables

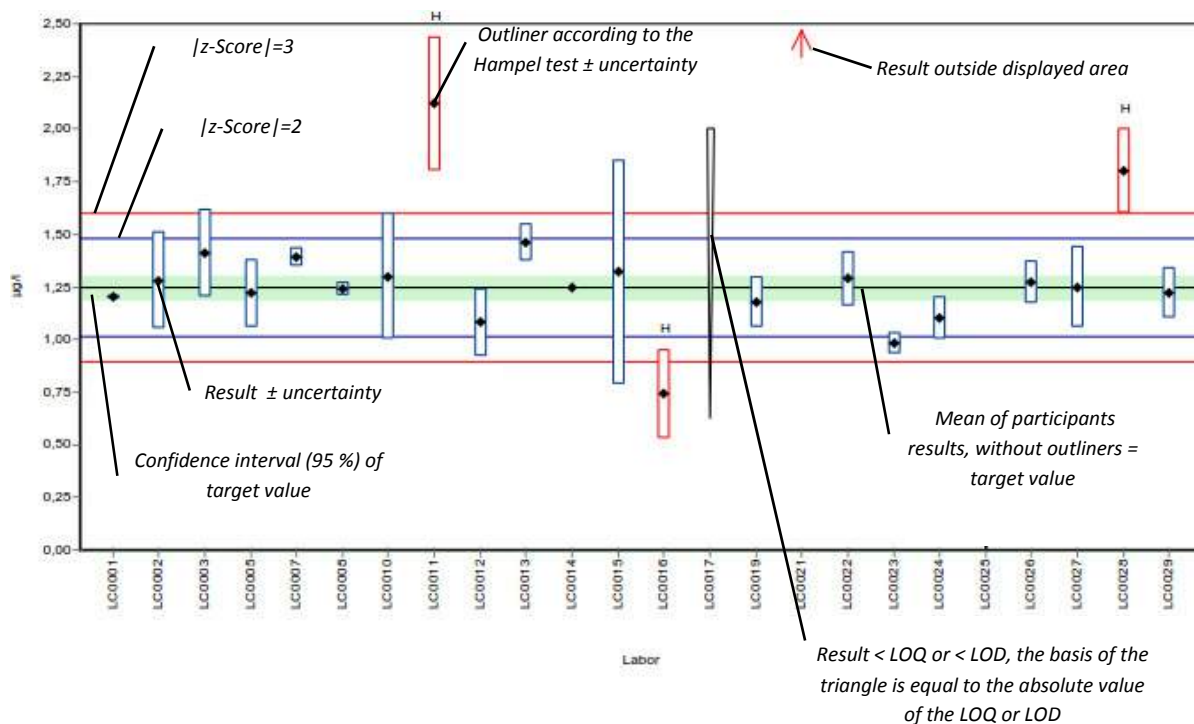
Parameter	Analyte identifier
Sample	Sample identifier
Unit	Given unit for result and uncertainty (e.g. µg/l)
Mean	Mean of the participants results, without outliers (3 significant digits)
CI (99 %)	99% confidence interval (3 significant digits)
Minimum	Minimum of all submitted results, after removal 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).

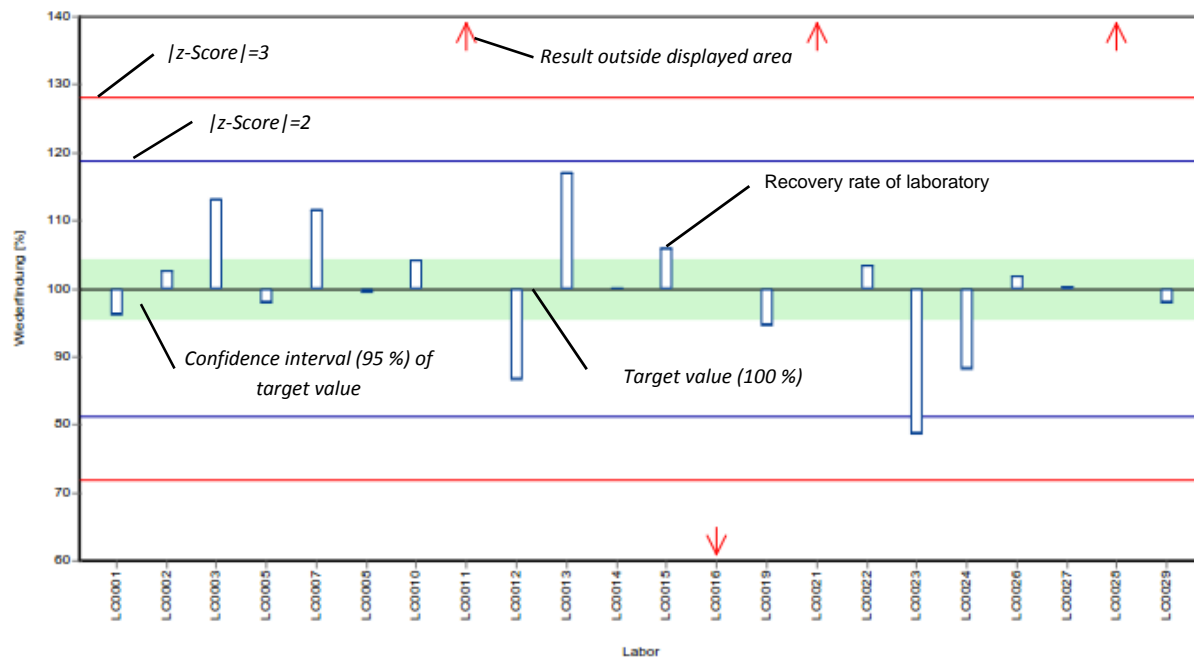


## 5.2 Graphical presentation of results

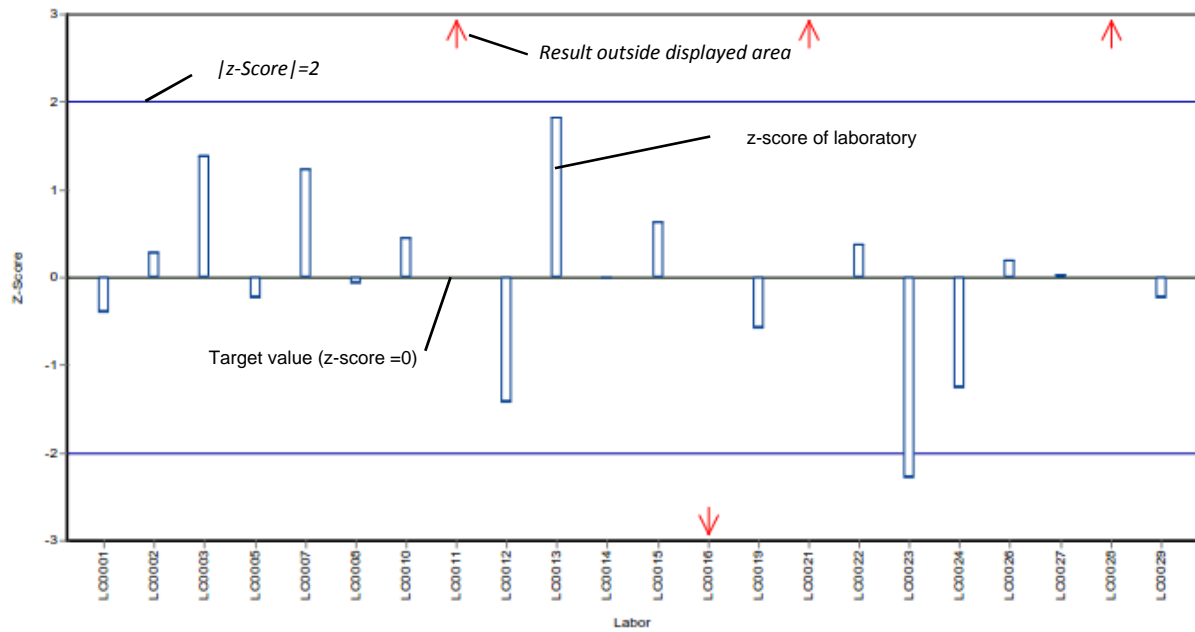
### Example chart: Results



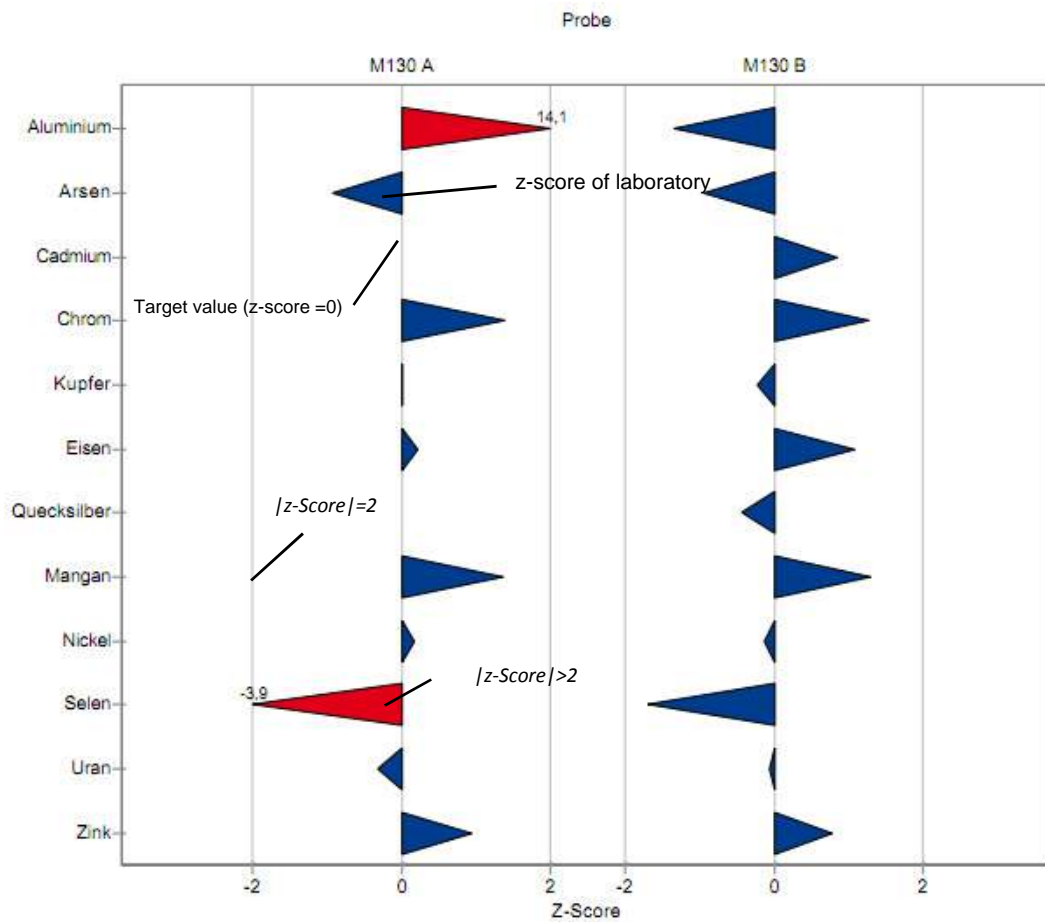
### Example chart: Recovery



**Example chart: z-score**



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



Summary of results, after removal of outliers: Metals M130

## 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 %
Aluminium	M130 A	µg/l	9	5	1,09	± 0,312	0,448	1,57	0,312	29
	M130 B	µg/l	15	3	7,07	± 0,806	5,1	8,8	1,04	15
Arsenic	M130 A	µg/l	14	2	0,491	± 0,0621	0,42	0,7	0,0774	16
	M130 B	µg/l	15	1	0,61	± 0,0737	0,52	0,82	0,0952	16
Cadmium	M130 A	µg/l	5	2	-	± -	0,0105	0,0118	-	-
	M130 B	µg/l	23	0	0,259	± 0,0157	0,19	0,3	0,0251	9,7
Chromium	M130 A	µg/l	18	4	1,25	± 0,0829	0,98	1,46	0,117	9,4
	M130 B	µg/l	14	4	0,754	± 0,0545	0,57	0,84	0,068	9
Copper	M130 A	µg/l	22	2	5,97	± 0,302	4,64	6,6	0,471	7,9
	M130 B	µg/l	21	3	5,46	± 0,2	4,92	6,07	0,306	5,6
Iron	M130 A	µg/l	12	2	1,78	± 0,328	0,96	2,36	0,379	21
	M130 B	µg/l	21	2	10,9	± 0,507	9,17	12	0,774	7,1
Mercury	M130 A	µg/l	1	0	-	± -	0,035	0,035	-	-
	M130 B	µg/l	17	1	0,134	± 0,0242	0,088	0,22	0,0333	25
Manganese	M130 A	µg/l	19	0	2,38	± 0,115	2,04	2,69	0,167	7
	M130 B	µg/l	19	1	2,48	± 0,111	2,23	2,78	0,162	6,5
Nickel	M130 A	µg/l	10	1	0,33	± 0,0521	0,271	0,459	0,0549	17
	M130 B	µg/l	11	2	0,545	± 0,0347	0,49	0,63	0,0384	7,1
Lead	M130 A	µg/l	8	3	0,108	± 0,0108	0,0935	0,124	0,0102	9,4
	M130 B	µg/l	8	2	0,123	± 0,0443	0,091	0,21	0,0417	34
Selenium	M130 A	µg/l	14	3	0,797	± 0,0961	0,602	1,03	0,12	15
	M130 B	µg/l	21	1	2,66	± 0,235	2,05	3,38	0,359	14
Uranium	M130 A	µg/l	18	1	2,99	± 0,155	2,57	3,4	0,219	7,3
	M130 B	µg/l	19	0	7,06	± 0,406	5,95	8,15	0,589	8,3
Zinc	M130 A	µg/l	24	0	152	± 7,22	126	176	11,8	7,7
	M130 B	µg/l	24	0	84,6	± 3,99	72,2	99	6,51	7,7

## 7 Parameter oriented report

Aluminum .....	13
Arsenic .....	21
Cadmium .....	29
Chromium.....	35
Copper .....	43
Iron.....	51
Mercury .....	59
Manganese .....	65
Nickel .....	73
Lead .....	81
Selenium .....	89
Uranium.....	97
Zinc .....	105

## Parameter oriented report

### M130 A

#### Aluminium

Unit	µg/l
Mean ± CI (99%)	1,09 ± 0,312
Minimum - Maximum	0,448 - 1,57
Control test value ± U	< 10 (LOQ)

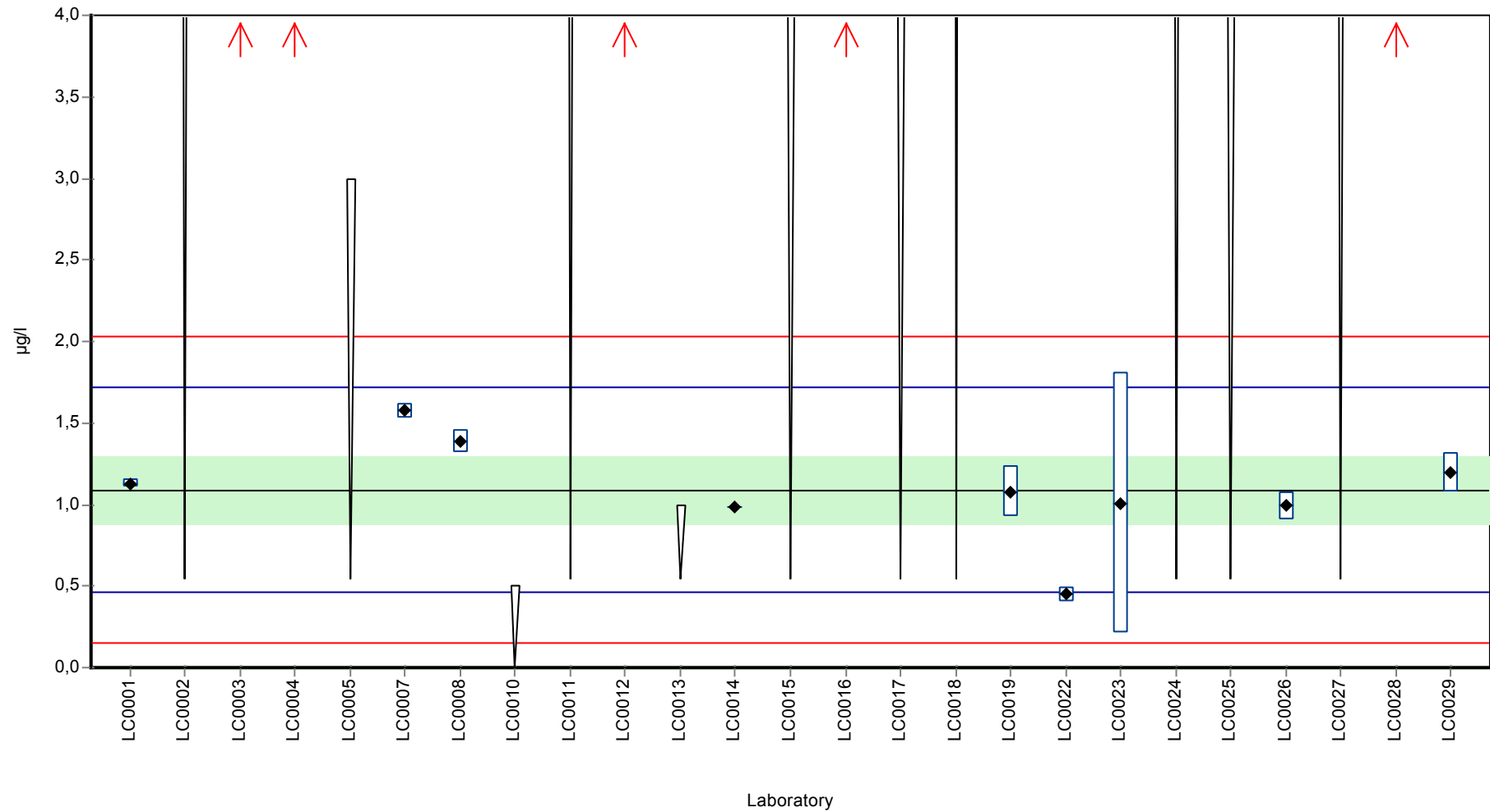
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1,13	0,023	104	0,13	
LC0002	< 10 (LOQ)	-	-	-	
LC0003	5,48	0,82	503	14,1	H
LC0004	10	2	918	28,5	H
LC0005	< 3 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	1,575	0,0473	145	1,56	
LC0008	1,39	0,07	128	0,96	
LC0009	-	-	-	-	
LC0010	< 0,5 (LOQ)	-	-	-	
LC0011	< 10 (LOQ)	-	-	-	
LC0012	9,67	1,45	888	27,5	H
LC0013	<1 (LOD)	-	-	-	
LC0014	0,98	-	90	-0,35	
LC0015	< 5 (LOQ)	-	-	-	
LC0016	21,65	0,01263	1990	65,9	H
LC0017	< 5 (LOQ)	-	-	-	
LC0018	< 20 (LOQ)	-	-	-	
LC0019	1,08	0,16	99,2	-0,03	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	0,448	0,0448	41,1	-2,05	
LC0023	1,01	0,8	92,7	-0,25	
LC0024	< 10 (LOQ)	-	-	-	
LC0025	< 5 (LOQ)	-	-	-	
LC0026	0,99	0,09	90,9	-0,32	
LC0027	< 8 (LOQ)	-	-	-	
LC0028	14	2,7	1290	41,4	H
LC0029	1,2	0,12	110	0,35	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	5,04 ± 5,19	1,09 ± 0,312	µg/l
Minimum	0,448	0,448	µg/l
Maximum	21,6	1,57	µg/l
Standard deviation	6,47	0,312	µg/l
rel. Standard deviation	128	28,7	%
n	14	9	-

Graphical presentation of results

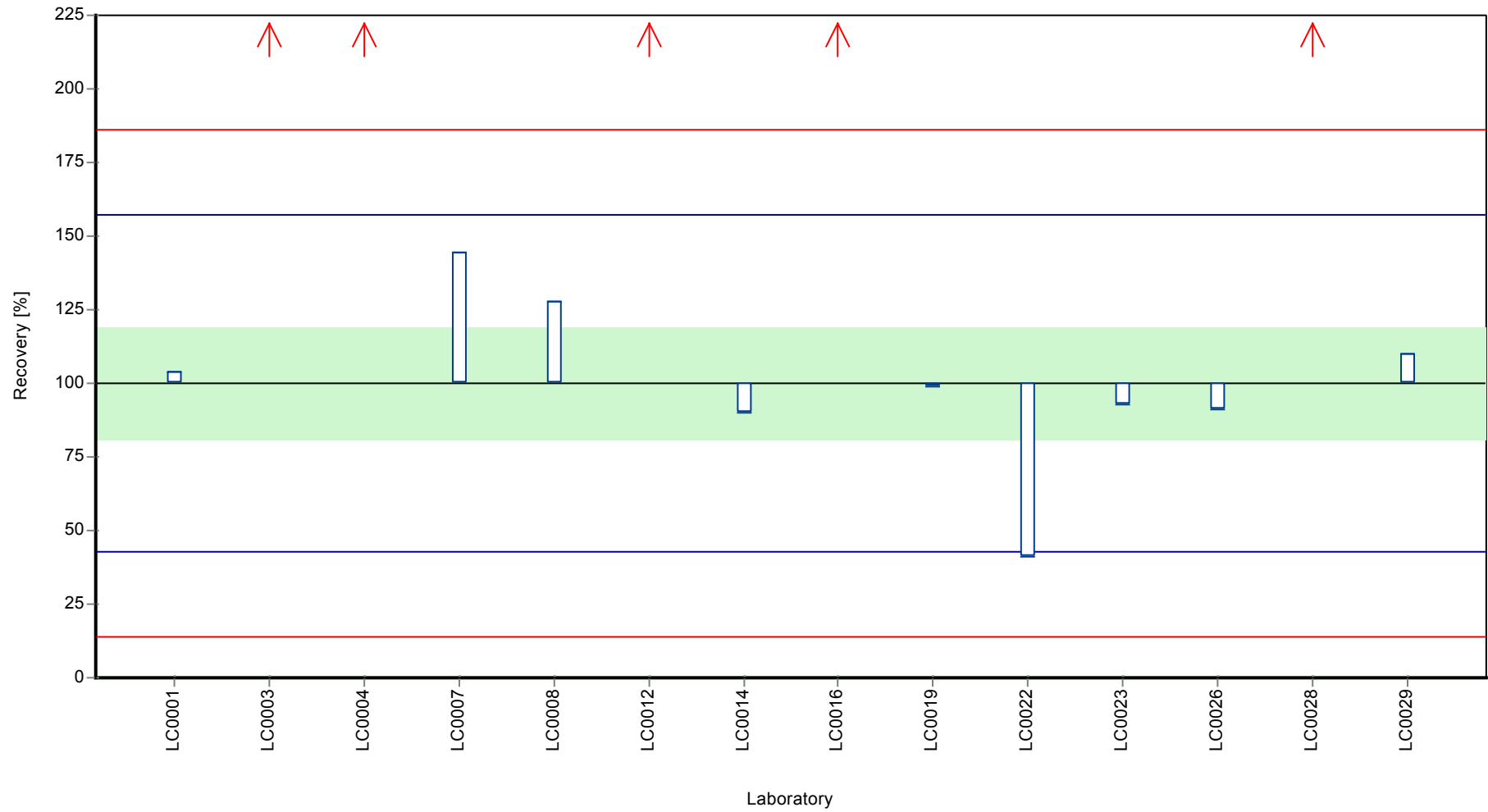
Results



Parameter oriented report Metals M130

Sample: M130A, Parameter: Aluminium

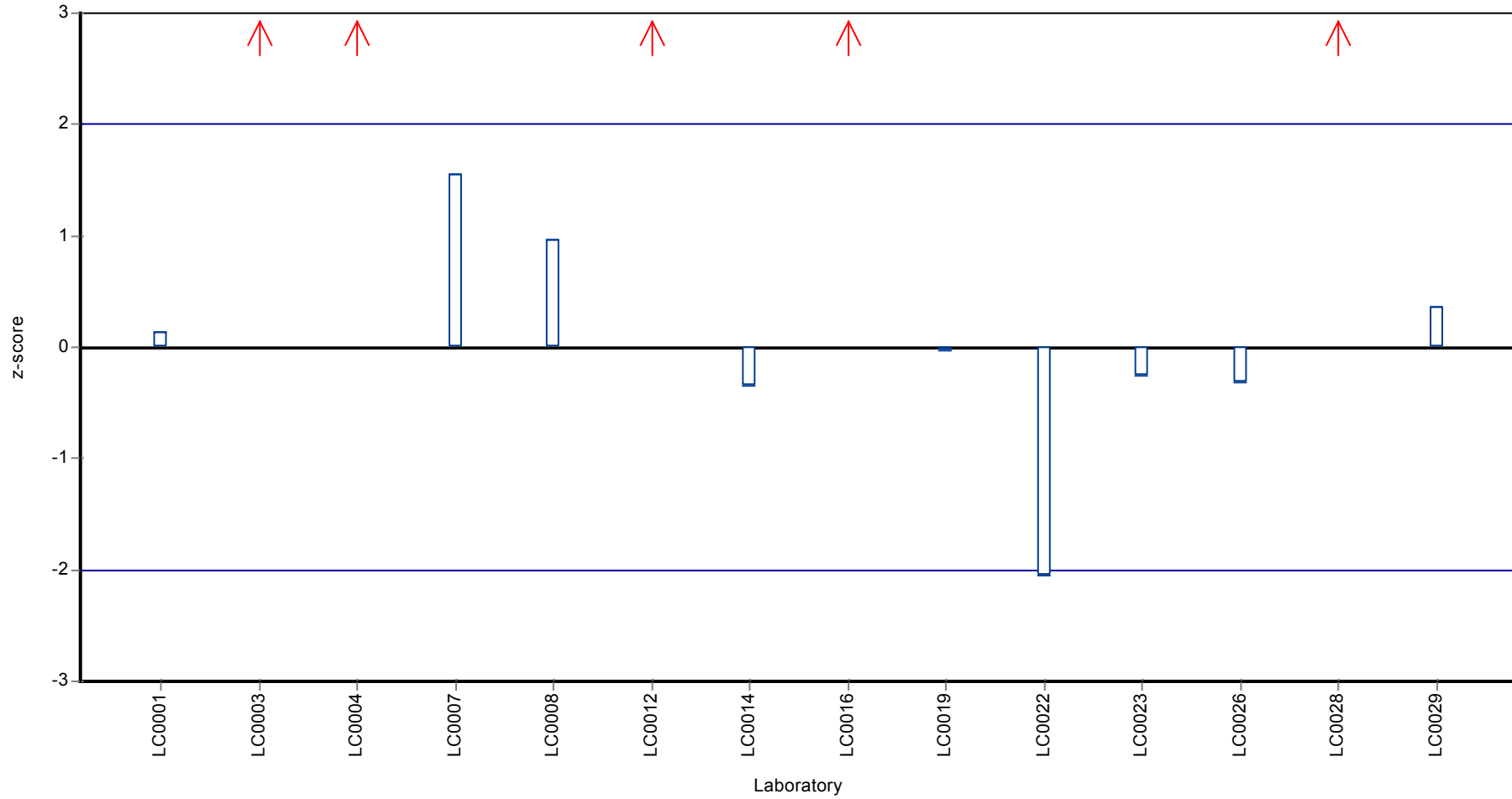
Recovery rate



Parameter oriented report Metals M130

Sample: M130A, Parameter: Aluminium

Z-score





## Parameter oriented report

### M130 B

#### Aluminium

Unit	µg/l
Mean ± CI (99%)	7,07 ± 0,806
Minimum - Maximum	5,1 - 8,8
Control test value ± U	< 10 (LOQ)

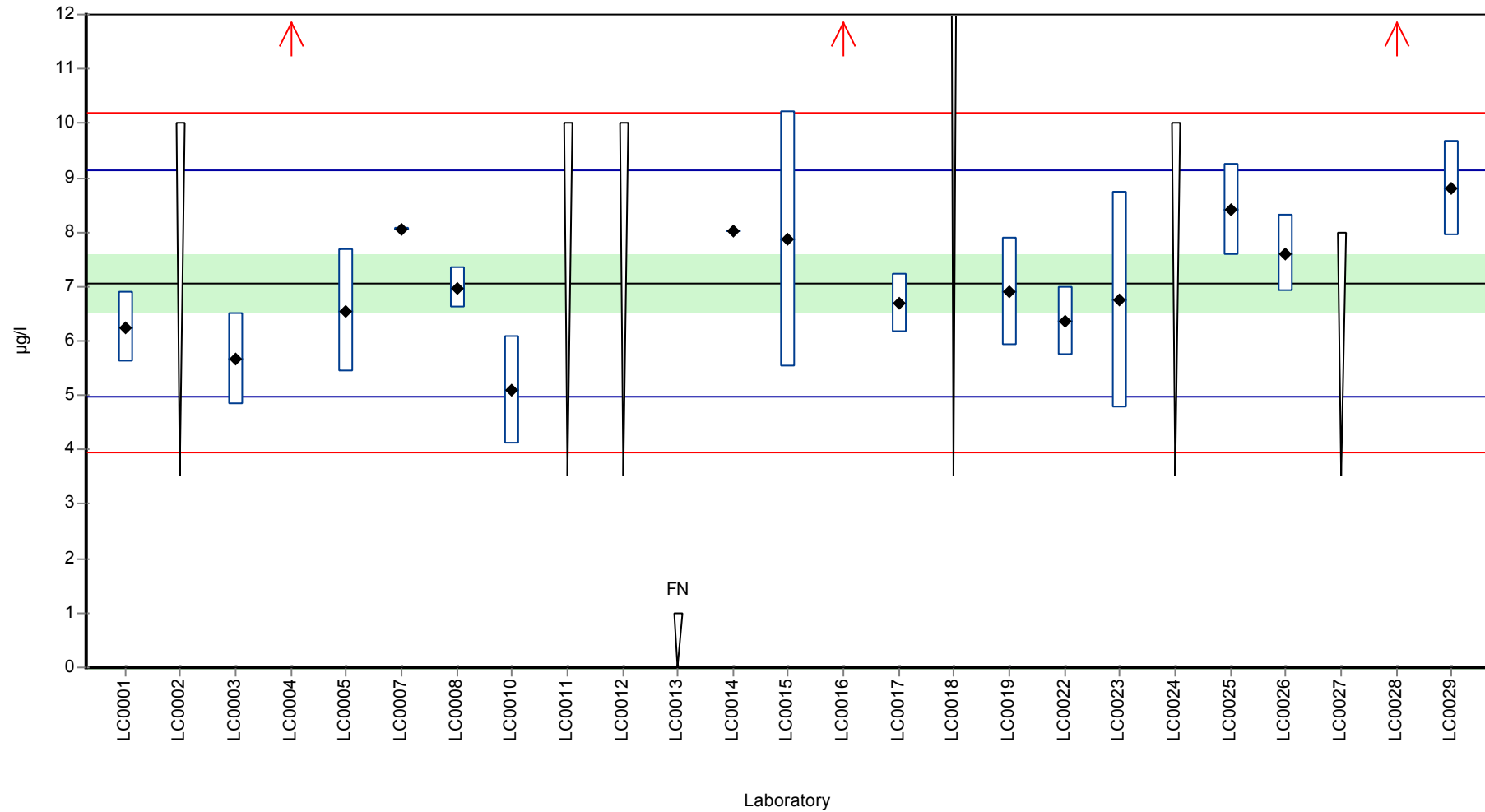
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	6,25	0,64	88,4	-0,79	
LC0002	< 10 (LOQ)	-	-	-	
LC0003	5,67	0,85	80,2	-1,34	
LC0004	15	3	212	7,62	H
LC0005	6,55	1,13	92,7	-0,5	
LC0006	-	-	-	-	
LC0007	8,064	0,03	114	0,96	
LC0008	6,97	0,38	98,6	-0,09	
LC0009	-	-	-	-	
LC0010	5,1	1	72,2	-1,89	
LC0011	< 10 (LOQ)	-	-	-	
LC0012	< 10 (LOQ)	-	-	-	
LC0013	<1 (LOD)	-	-	-	FN
LC0014	8,01	-	113	0,91	
LC0015	7,87	2,36	111	0,77	
LC0016	26,93	0,0096	381	19,1	H
LC0017	6,7	0,54	94,8	-0,35	
LC0018	< 20 (LOQ)	-	-	-	
LC0019	6,91	1	97,8	-0,15	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	6,35	0,635	89,8	-0,69	
LC0023	6,75	2	95,5	-0,3	
LC0024	< 10 (LOQ)	-	-	-	
LC0025	8,41	0,841	119	1,29	
LC0026	7,61	0,71	108	0,52	
LC0027	< 8 (LOQ)	-	-	-	
LC0028	18,5	3,6	262	11	H
LC0029	8,8	0,88	125	1,66	

#### Characteristics of parameter

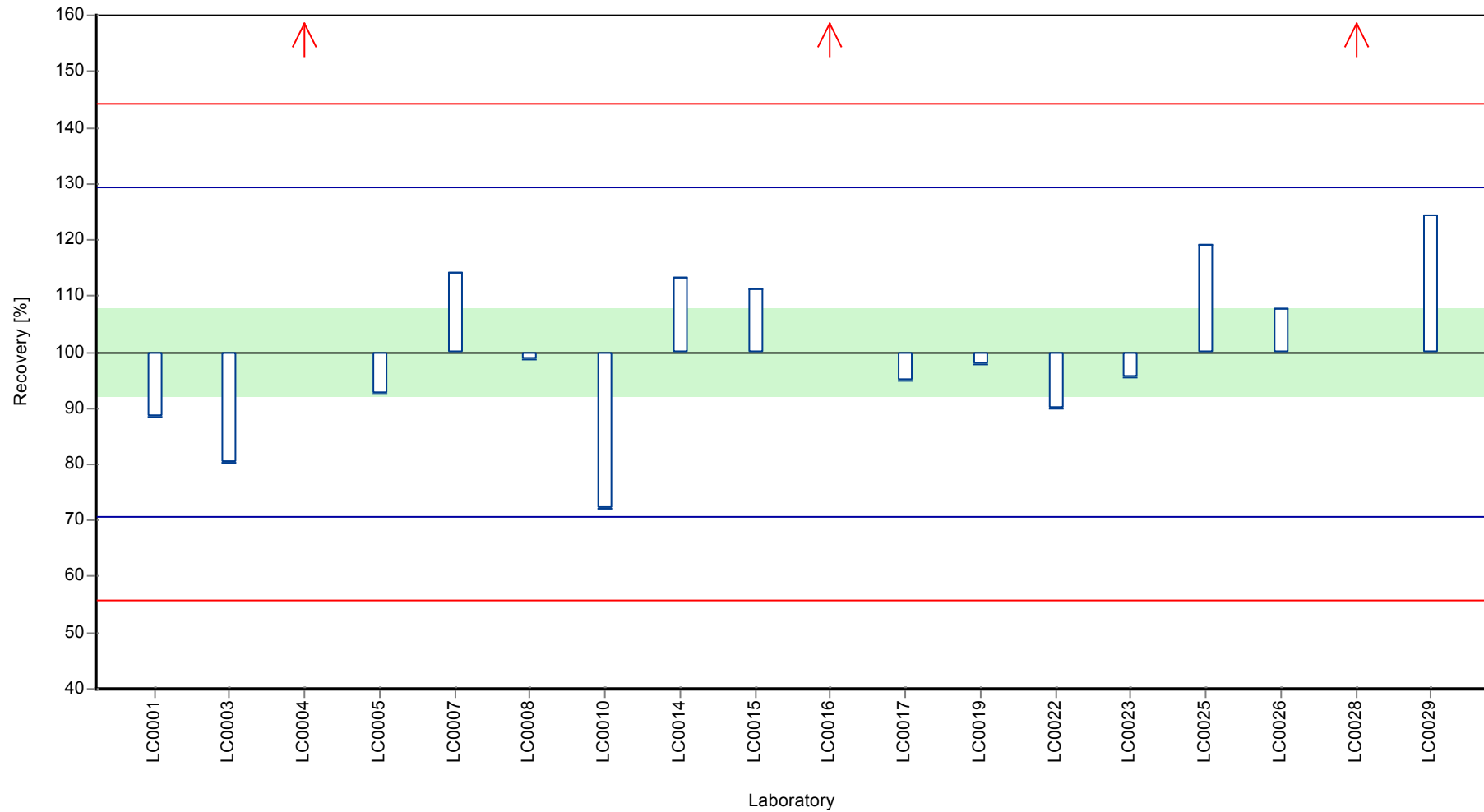
	all results	without outliers	Unit
Mean ± CI (99%)	9,25 ± 3,9	7,07 ± 0,806	µg/l
Minimum	5,1	5,1	µg/l
Maximum	26,9	8,8	µg/l
Standard deviation	5,52	1,04	µg/l
rel. Standard deviation	59,7	14,7	%
n	18	15	-

Graphical presentation of results

Results



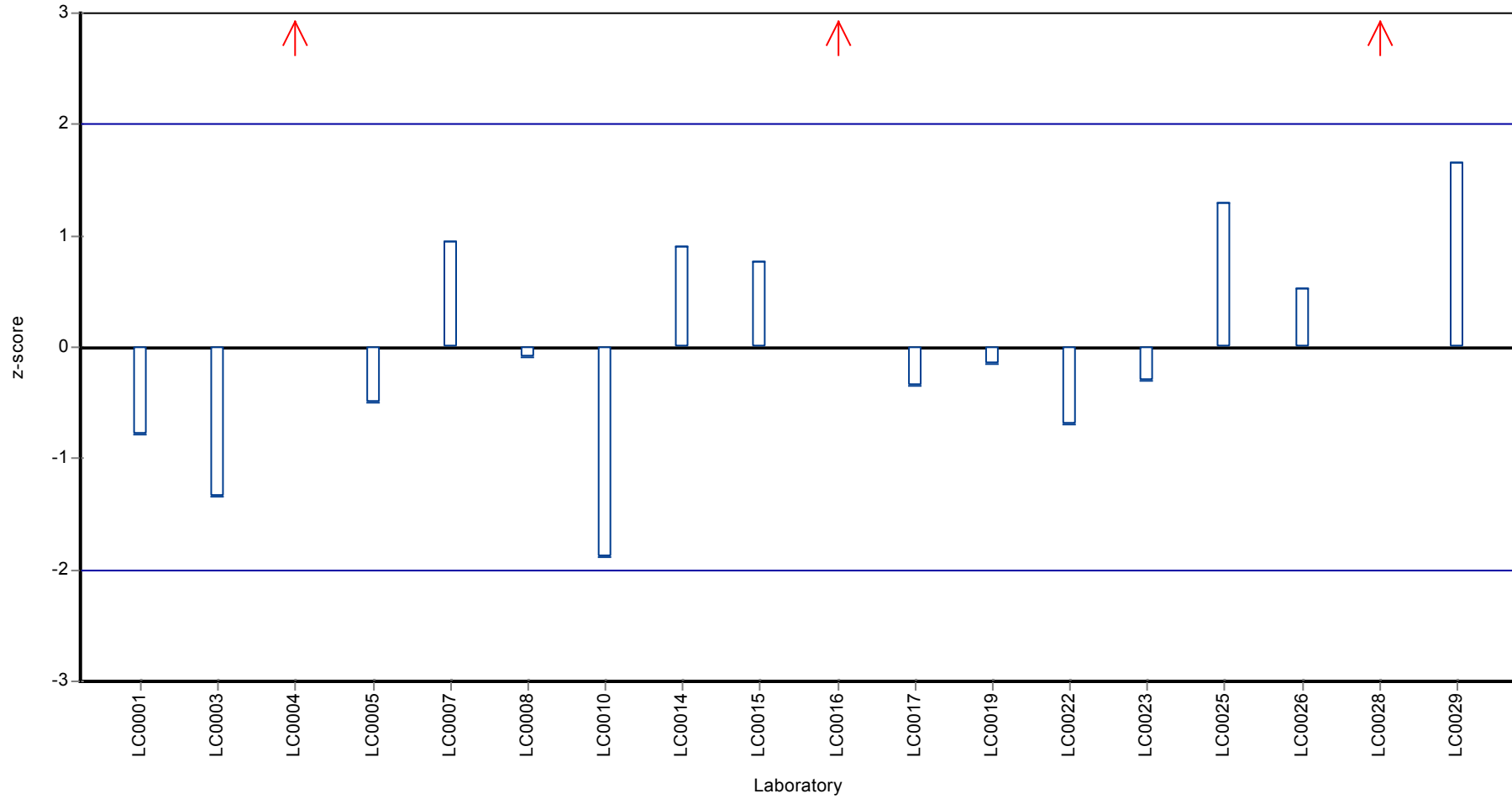
Recovery rate



Parameter oriented report Metals M130

Sample: M130B, Parameter: Aluminium

Z-score



## Parameter oriented report

### M130 A

#### Arsenic

Unit	µg/l
Mean ± CI (99%)	0,491 ± 0,0621
Minimum - Maximum	0,42 - 0,7
Control test value ± U	< 1 (LOQ)

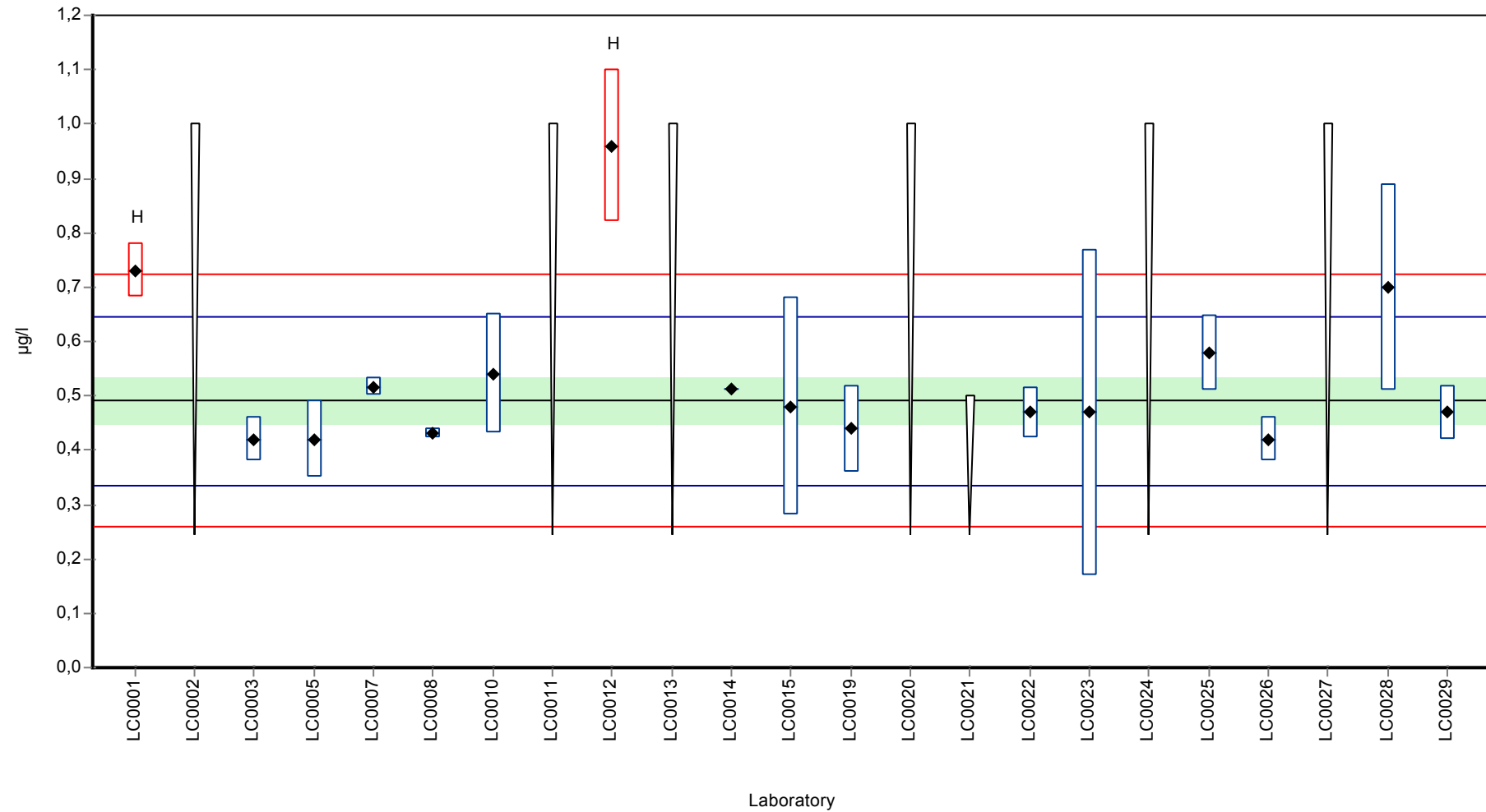
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,73	0,05	149	3,09	H
LC0002	< 1 (LOQ)	-	-	-	
LC0003	0,42	0,04	85,6	-0,92	
LC0004	-	-	-	-	
LC0005	0,42	0,07	85,6	-0,92	
LC0006	-	-	-	-	
LC0007	0,517	0,0155	105	0,34	
LC0008	0,431	0,009	87,8	-0,77	
LC0009	-	-	-	-	
LC0010	0,54	0,11	110	0,64	
LC0011	< 1 (LOQ)	-	-	-	
LC0012	0,96	0,14	196	6,06	H
LC0013	< 1 (LOQ)	-	-	-	
LC0014	0,514	-	105	0,3	
LC0015	0,48	0,2	97,8	-0,14	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0,44	0,08	89,6	-0,66	
LC0020	< 1 (LOQ)	-	-	-	
LC0021	< 0,5 (LOQ)	-	-	-	
LC0022	0,47	0,047	95,8	-0,27	
LC0023	0,47	0,3	95,8	-0,27	
LC0024	< 1 (LOQ)	-	-	-	
LC0025	0,58	0,0696	118	1,15	
LC0026	0,42	0,04	85,6	-0,92	
LC0027	< 1 (LOQ)	-	-	-	
LC0028	0,7	0,19	143	2,7	
LC0029	0,47	0,05	95,8	-0,27	

#### Characteristics of parameter

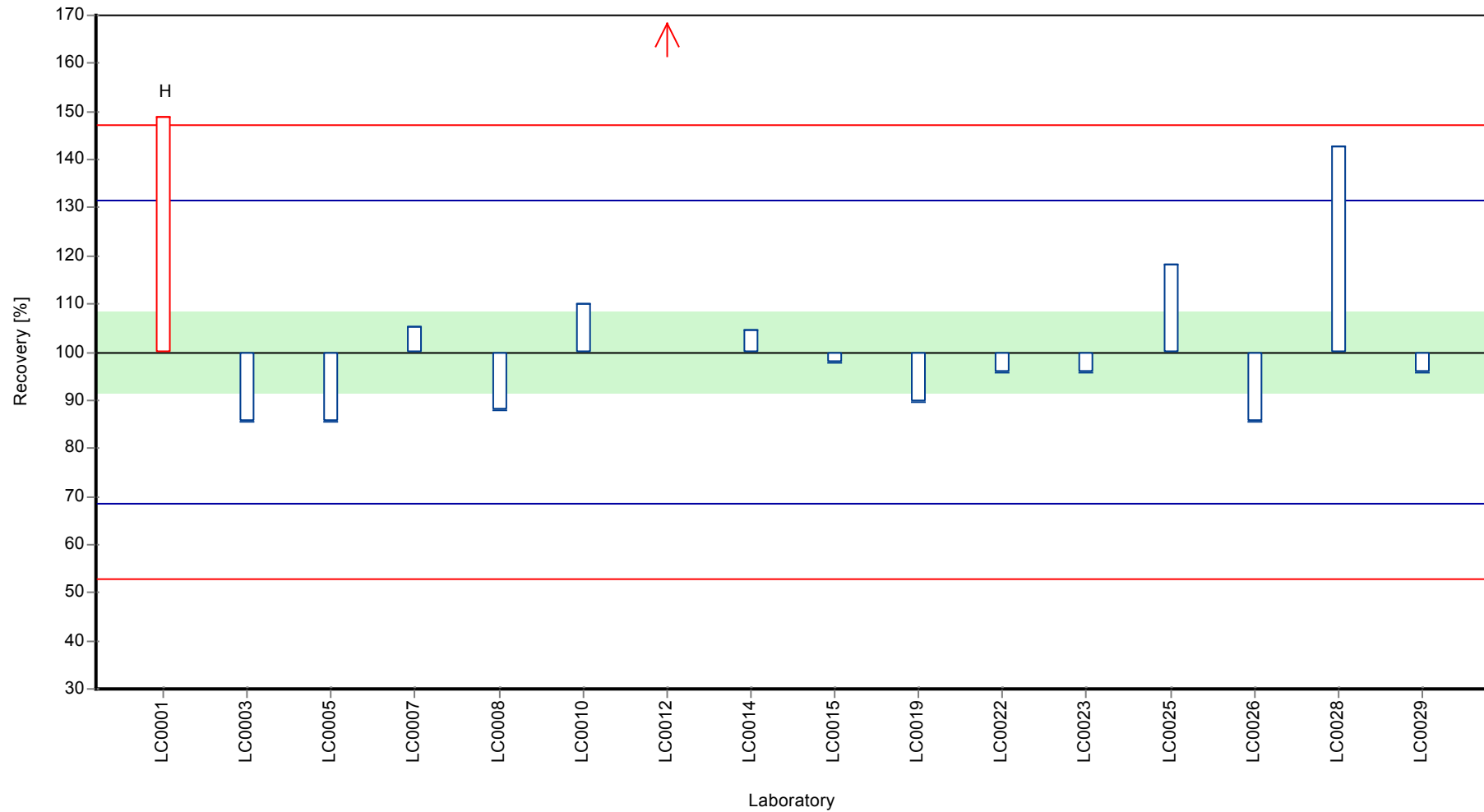
	all results	without outliers	Unit
Mean ± CI (99%)	0,535 ± 0,11	0,491 ± 0,0621	µg/l
Minimum	0,42	0,42	µg/l
Maximum	0,96	0,7	µg/l
Standard deviation	0,147	0,0774	µg/l
rel. Standard deviation	27,5	15,8	%
n	16	14	-

Graphical presentation of results

Results



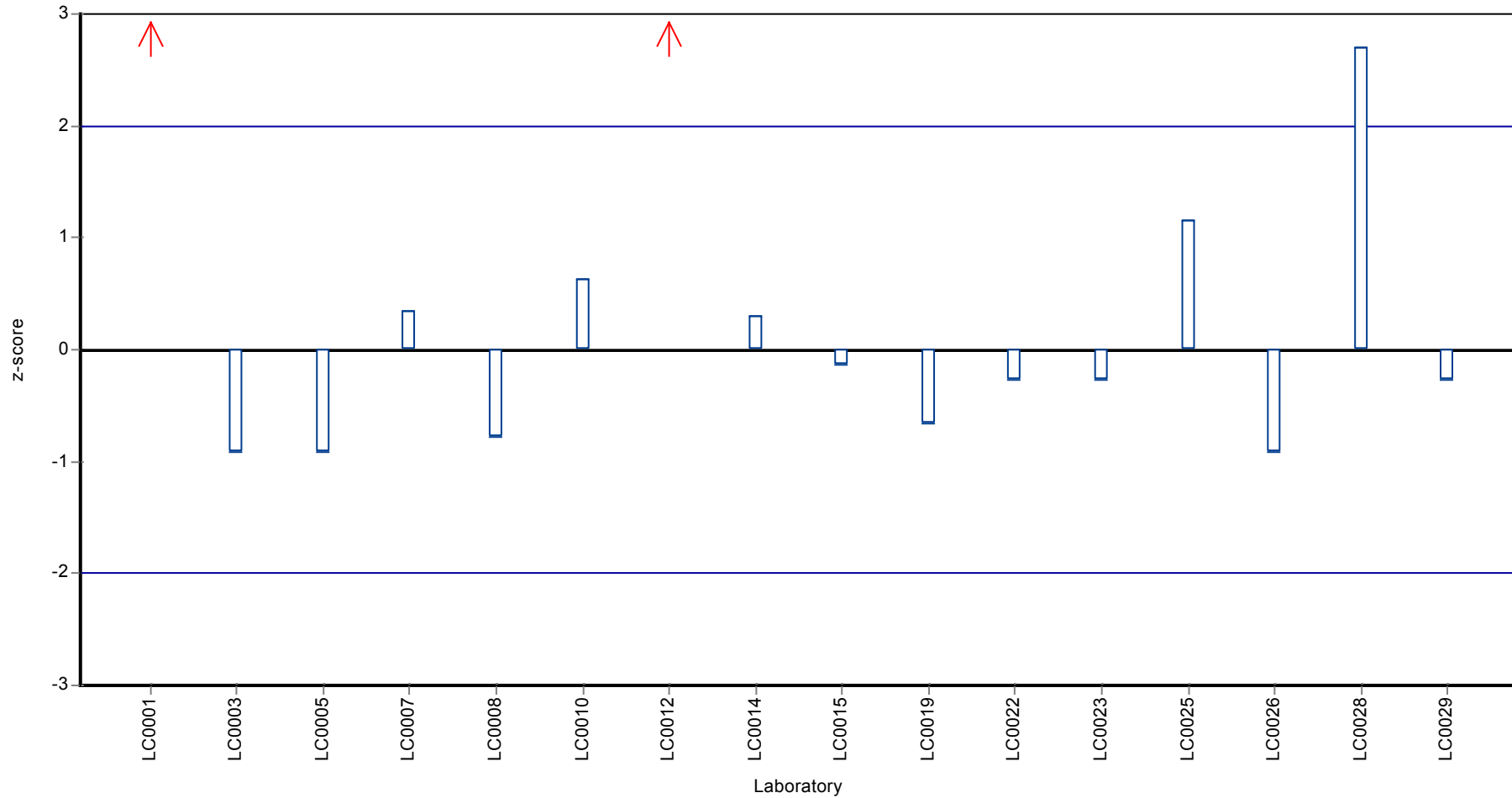
Recovery rate



Parameter oriented report Metals M130

Sample: M130A, Parameter: Arsenic

Z-score





## Parameter oriented report

### M130 B

#### Arsenic

Unit	µg/l
Mean ± CI (99%)	0,61 ± 0,0737
Minimum - Maximum	0,52 - 0,82
Control test value ± U	< 1 (LOQ)

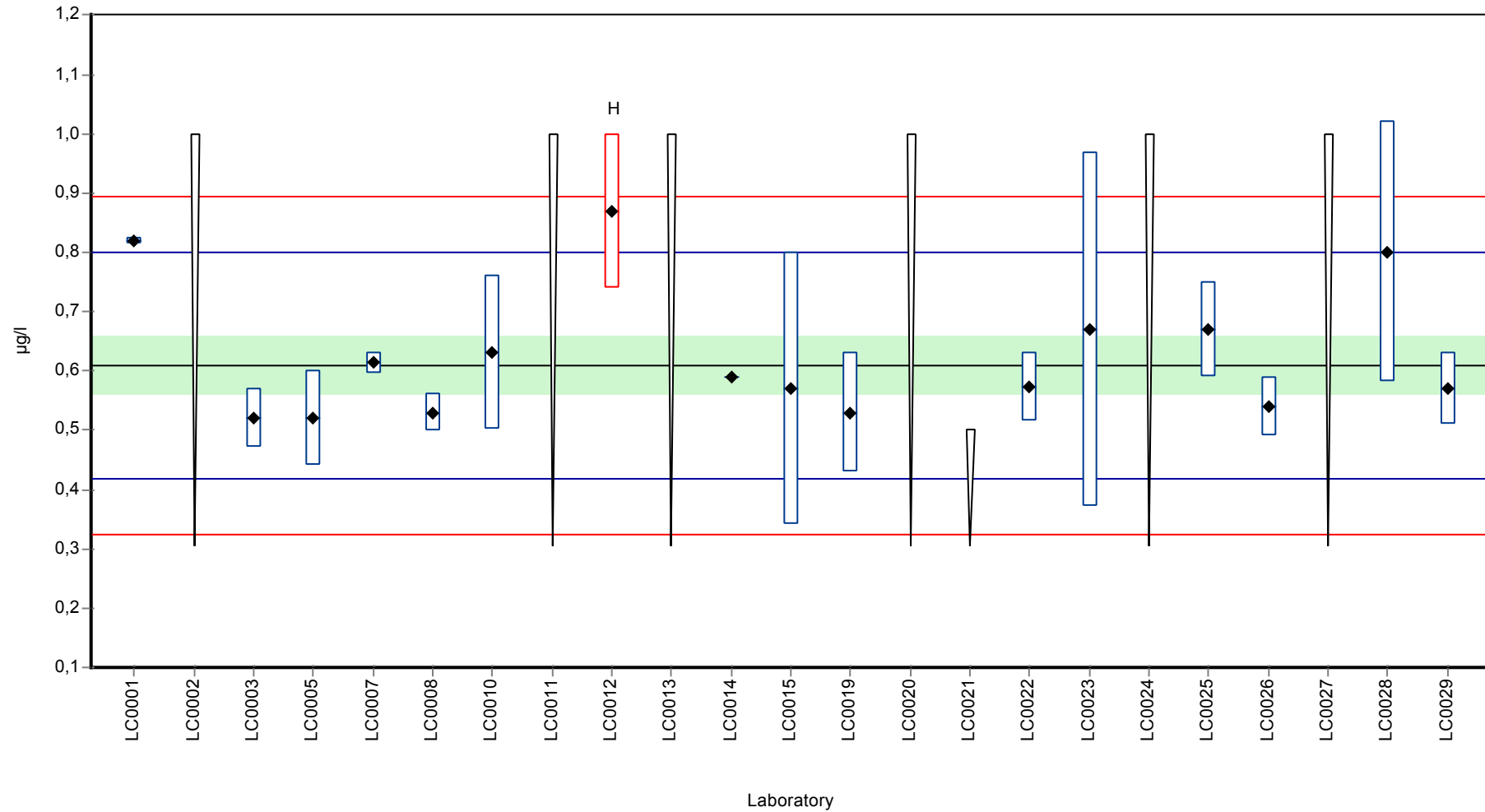
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,82	0,006	134	2,21	
LC0002	< 1 (LOQ)	-	-	-	
LC0003	0,52	0,05	85,3	-0,94	
LC0004	-	-	-	-	
LC0005	0,52	0,08	85,3	-0,94	
LC0006	-	-	-	-	
LC0007	0,614	0,0184	101	0,04	
LC0008	0,529	0,032	86,7	-0,85	
LC0009	-	-	-	-	
LC0010	0,63	0,13	103	0,21	
LC0011	< 1 (LOQ)	-	-	-	
LC0012	0,87	0,13	143	2,73	H
LC0013	< 1 (LOQ)	-	-	-	
LC0014	0,591	-	96,9	-0,2	
LC0015	0,57	0,23	93,5	-0,42	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0,53	0,1	86,9	-0,84	
LC0020	< 1 (LOQ)	-	-	-	
LC0021	< 0,5 (LOQ)	-	-	-	
LC0022	0,573	0,0573	94	-0,39	
LC0023	0,67	0,3	110	0,63	
LC0024	< 1 (LOQ)	-	-	-	
LC0025	0,67	0,0804	110	0,63	
LC0026	0,54	0,05	88,6	-0,73	
LC0027	< 1 (LOQ)	-	-	-	
LC0028	0,8	0,22	131	2	
LC0029	0,57	0,06	93,5	-0,42	

#### Characteristics of parameter

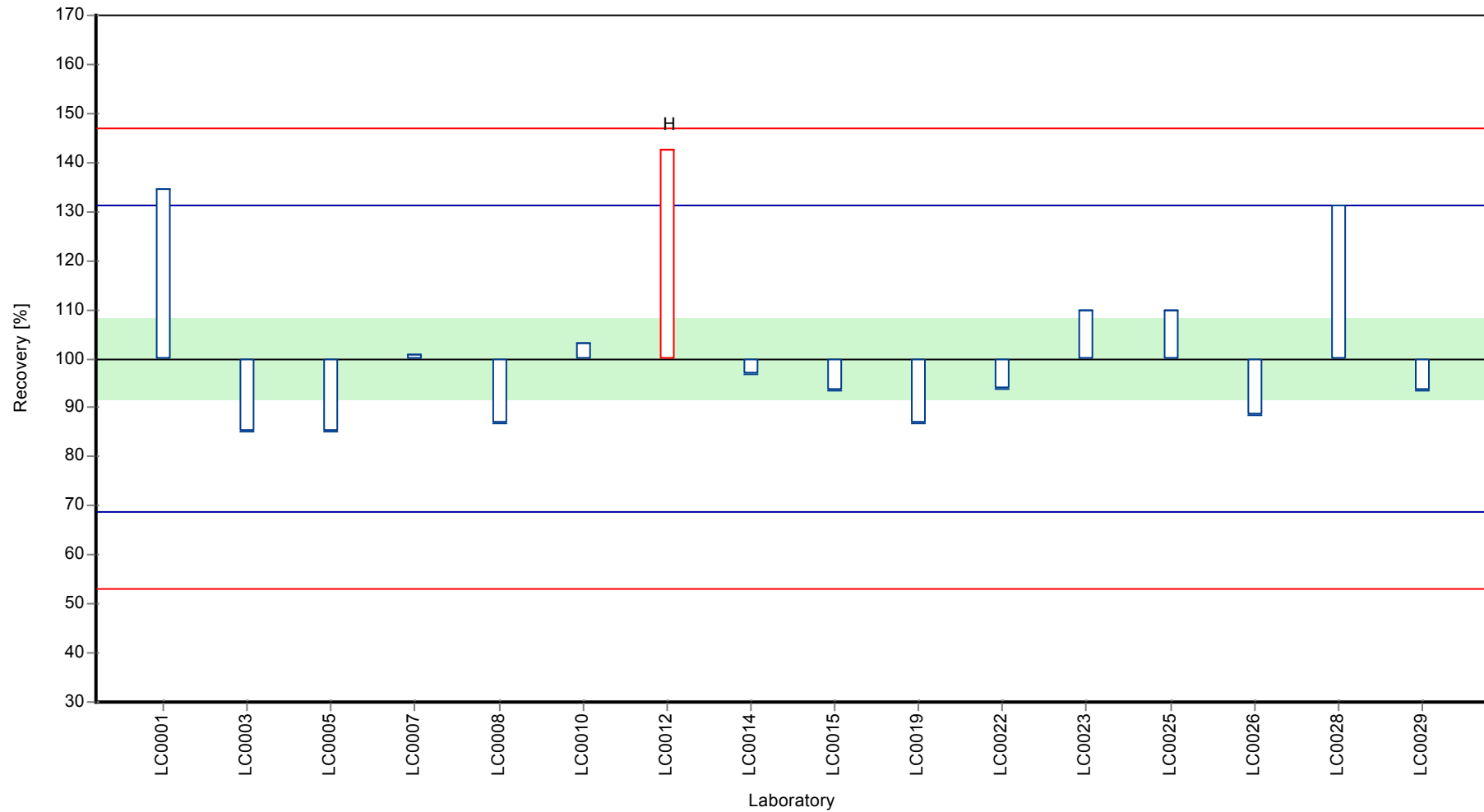
	all results	without outliers	Unit
Mean ± CI (99%)	0,626 ± 0,0845	0,61 ± 0,0737	µg/l
Minimum	0,52	0,52	µg/l
Maximum	0,87	0,82	µg/l
Standard deviation	0,113	0,0952	µg/l
rel. Standard deviation	18	15,6	%
n	16	15	-

Graphical presentation of results

Results



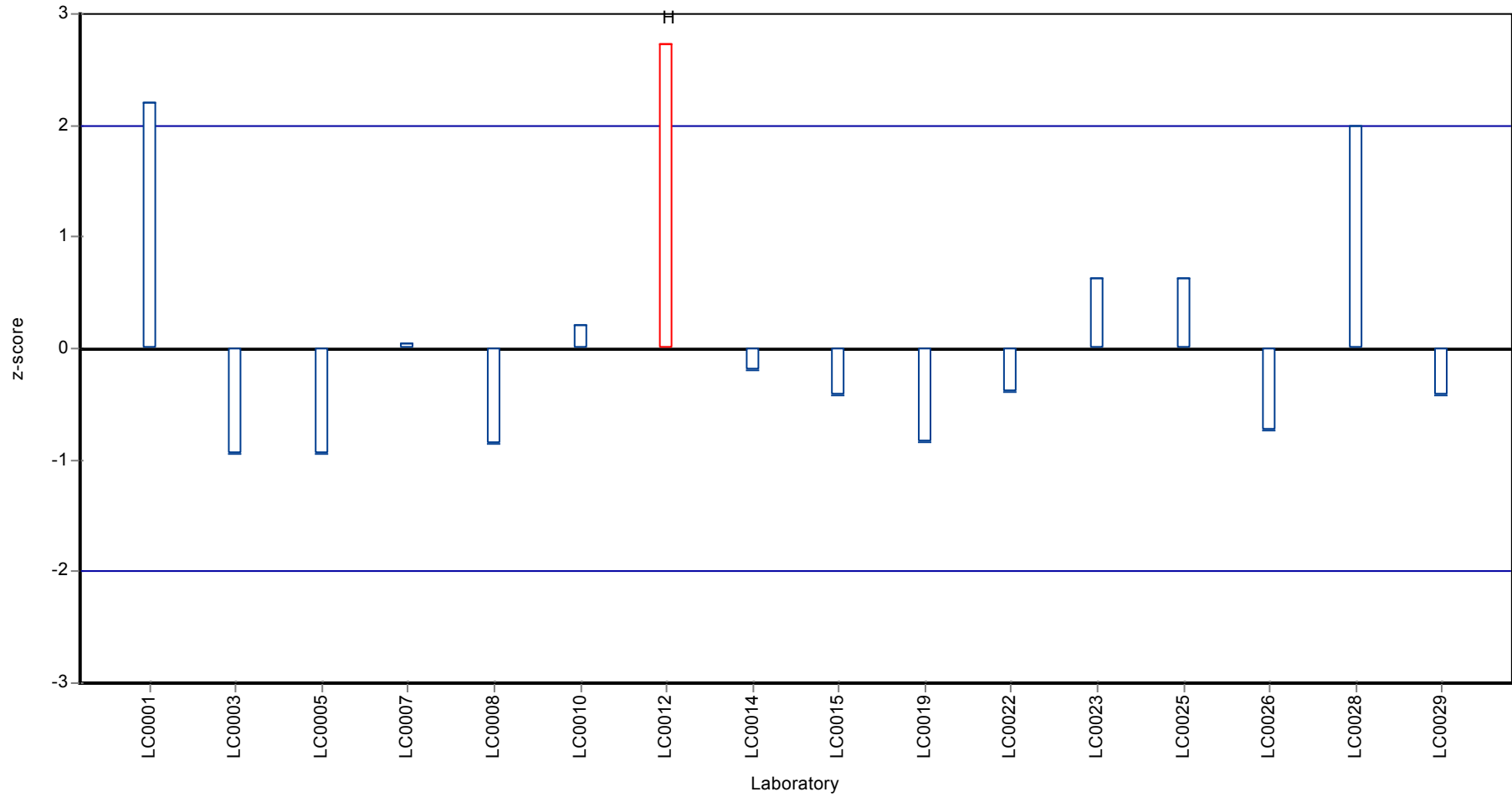
Recovery rate



Parameter oriented report Metals M130

Sample: M130B, Parameter: Arsenic

Z-score



## Parameter oriented report

### M130 A

#### Cadmium

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0,0105 - 0,0118
Control test value ± U	< 0,05 (LOQ)

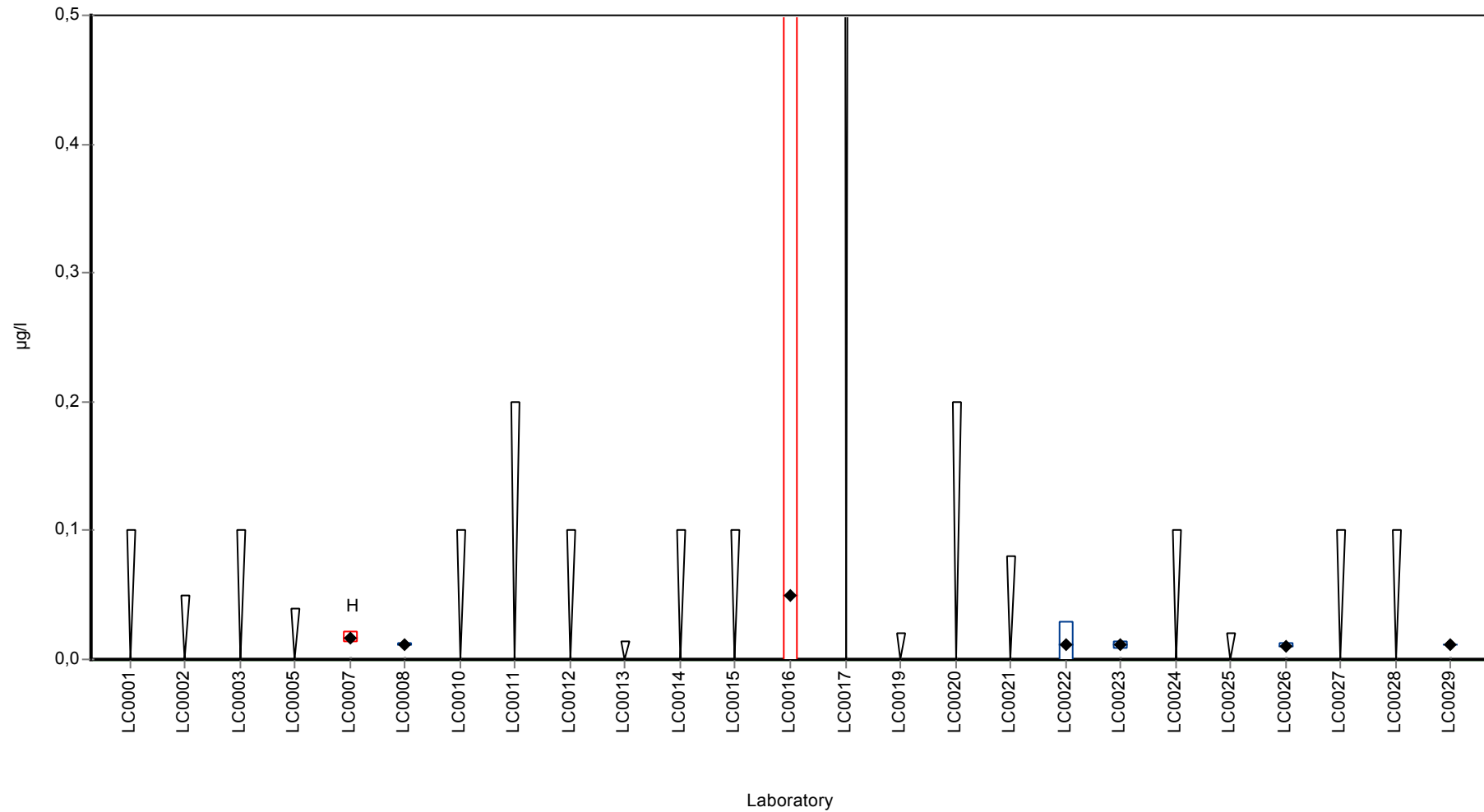
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 0,1 (LOQ)	-	-	-	
LC0002	< 0,05 (LOQ)	-	-	-	
LC0003	< 0,1 (LOQ)	-	-	-	
LC0004	-	-	-	-	
LC0005	< 0,04 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	0,017	0,0042	-	-	H
LC0008	0,0115	0,0009	-	-	
LC0009	-	-	-	-	
LC0010	< 0,1 (LOQ)	-	-	-	
LC0011	< 0,2 (LOQ)	-	-	-	
LC0012	< 0,1 (LOQ)	-	-	-	
LC0013	<0,014 (LOD)	-	-	-	
LC0014	< 0,1 (LOQ)	-	-	-	
LC0015	< 0,1 (LOQ)	-	-	-	
LC0016	0,05	3,1052	-	-	H
LC0017	< 2 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 0,02 (LOQ)	-	-	-	
LC0020	< 0,2 (LOQ)	-	-	-	
LC0021	< 0,08 (LOQ)	-	-	-	
LC0022	0,0118	0,018	-	-	
LC0023	0,011	0,003	-	-	
LC0024	< 0,1 (LOQ)	-	-	-	
LC0025	<0,02 (LOD)	-	-	-	
LC0026	0,0105	0,0017	-	-	
LC0027	< 0,1 (LOQ)	-	-	-	
LC0028	< 0,1 (LOQ)	-	-	-	
LC0029	0,011	0,001	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0,0175 ± 0,0164	-	µg/l
Minimum	0,0105	0,0105	µg/l
Maximum	0,05	0,0118	µg/l
Standard deviation	0,0145	-	µg/l
rel. Standard deviation	82,6	-	%
n	7	5	-

Graphical presentation of results

Results



## Parameter oriented report

### M130 B

#### Cadmium

Unit	µg/l
Mean ± CI (99%)	0,259 ± 0,0157
Minimum - Maximum	0,19 - 0,3
Control test value ± U	0,27 ± 0,03

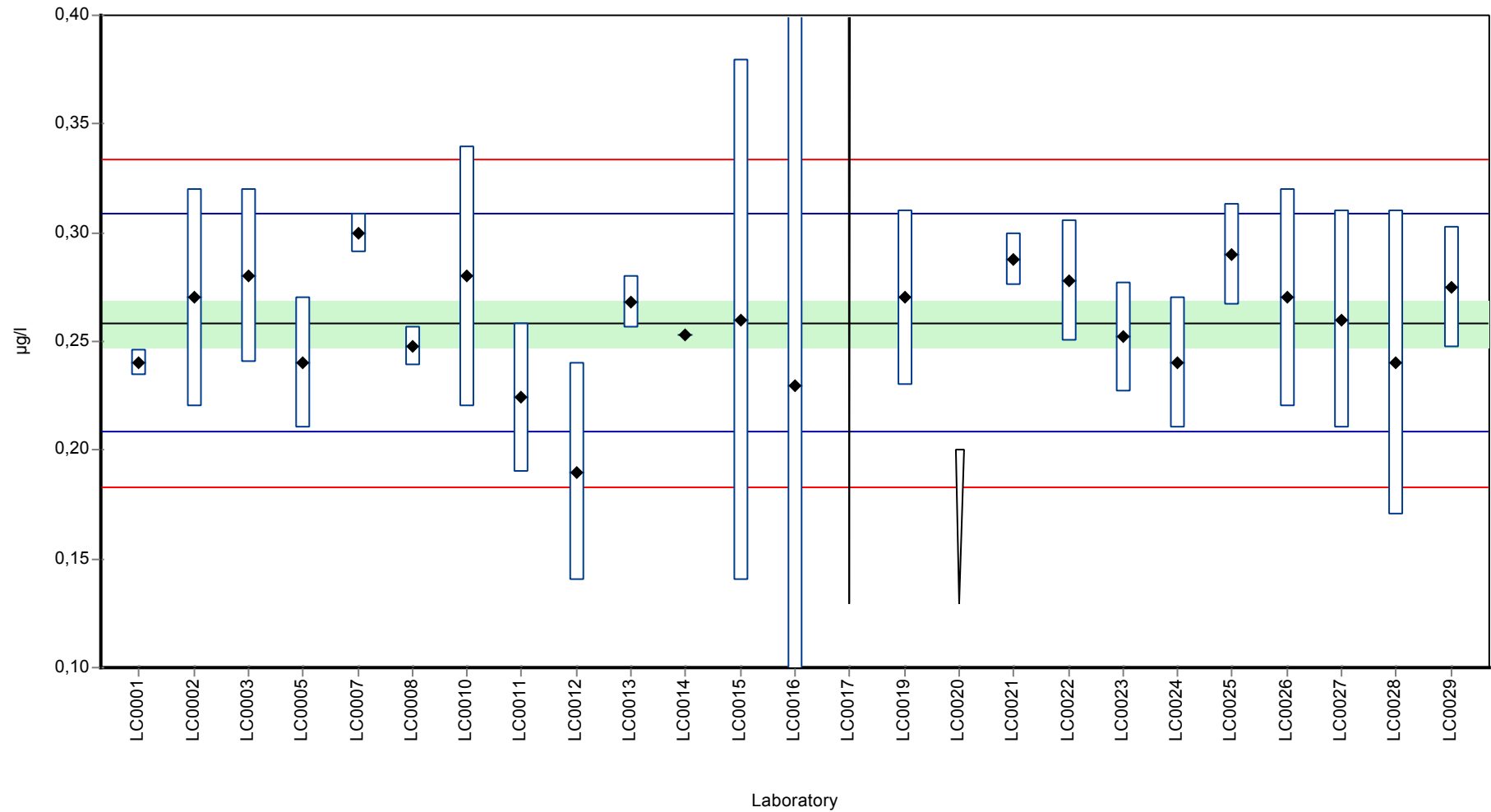
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,24	0,006	92,8	-0,74	
LC0002	0,27	0,05	104	0,46	
LC0003	0,28	0,04	108	0,85	
LC0004	-	-	-	-	
LC0005	0,24	0,03	92,8	-0,74	
LC0006	-	-	-	-	
LC0007	0,3	0,009	116	1,65	
LC0008	0,248	0,009	95,9	-0,42	
LC0009	-	-	-	-	
LC0010	0,28	0,06	108	0,85	
LC0011	0,224	0,034	86,6	-1,37	
LC0012	0,19	0,05	73,5	-2,73	
LC0013	0,268	0,012	104	0,38	
LC0014	0,253	-	97,9	-0,22	
LC0015	0,26	0,12	101	0,06	
LC0016	0,23	0,8558	89	-1,13	
LC0017	< 2 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	0,27	0,04	104	0,46	
LC0020	< 0,2 (LOQ)	-	-	-	
LC0021	0,288	0,012	111	1,17	
LC0022	0,278	0,0278	108	0,78	
LC0023	0,252	0,025	97,5	-0,26	
LC0024	0,24	0,03	92,8	-0,74	
LC0025	0,29	0,0232	112	1,25	
LC0026	0,27	0,05	104	0,46	
LC0027	0,26	0,05	101	0,06	
LC0028	0,24	0,07	92,8	-0,74	
LC0029	0,275	0,028	106	0,66	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0,259 ± 0,0157	0,259 ± 0,0157	µg/l
Minimum	0,19	0,19	µg/l
Maximum	0,3	0,3	µg/l
Standard deviation	0,0251	0,0251	µg/l
rel. Standard deviation	9,72	9,72	%
n	23	23	-

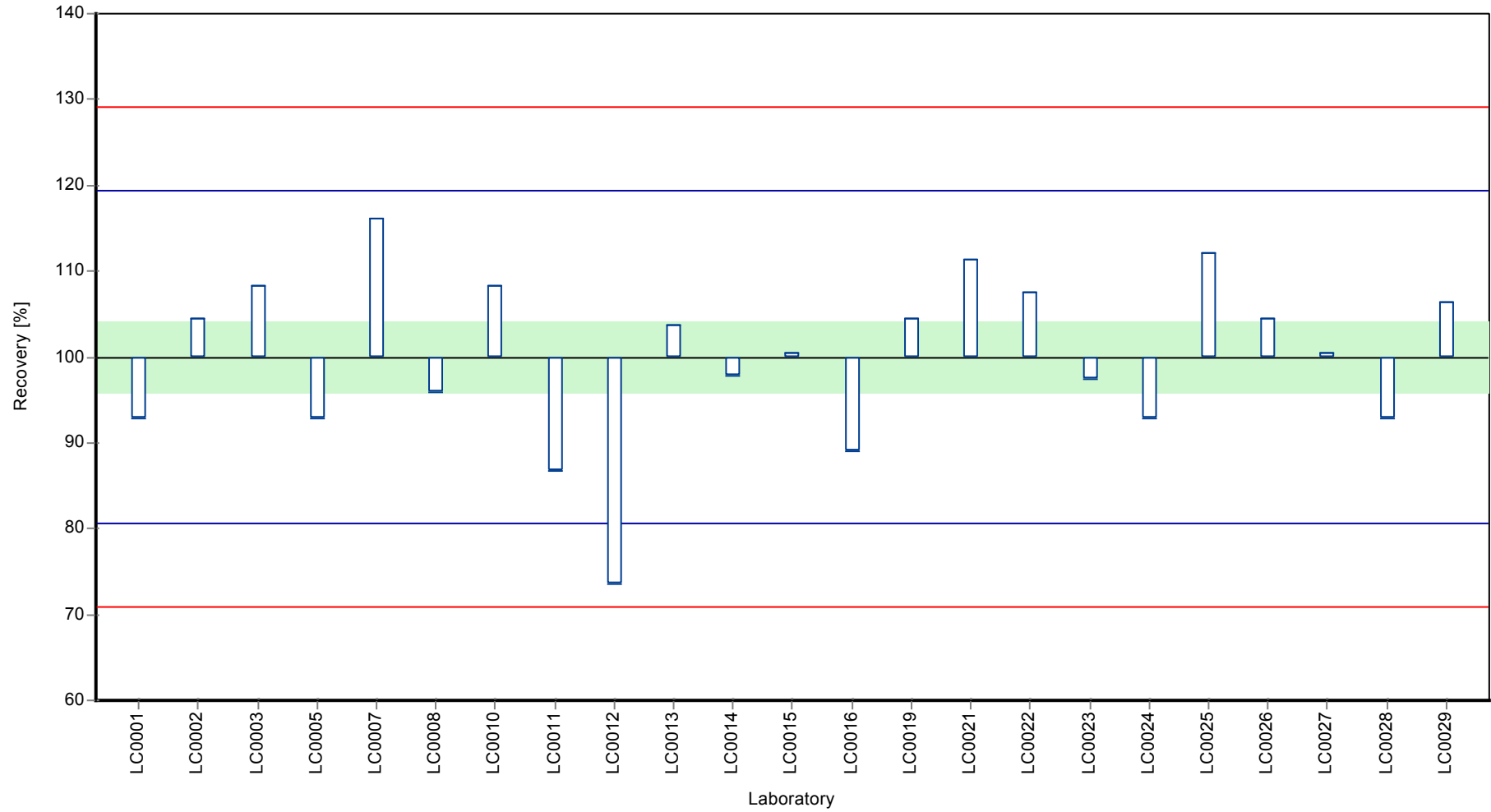
Graphical presentation of results

Results





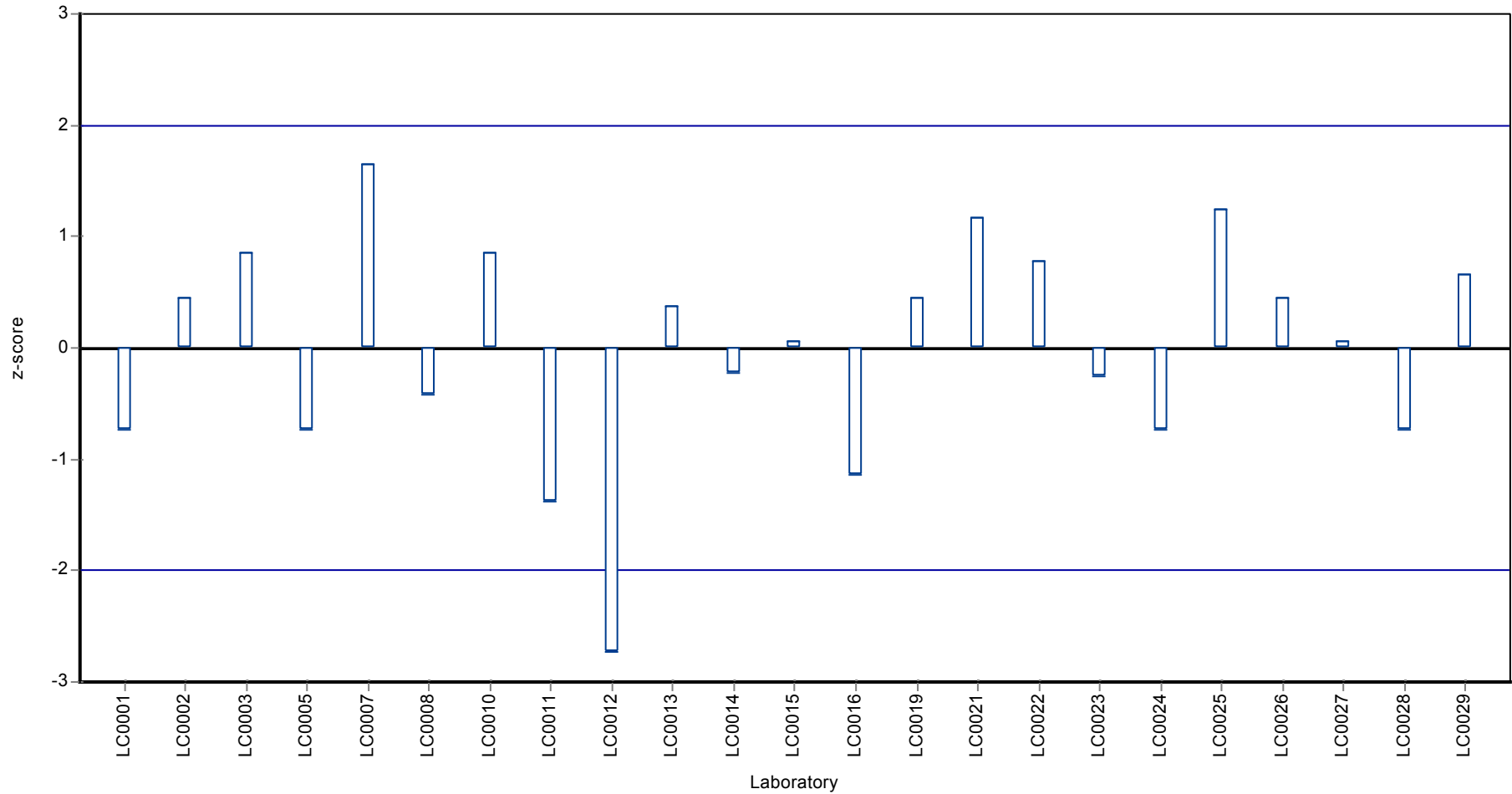
Recovery rate



Parameter oriented report Metals M130

Sample: M130B, Parameter: Cadmium

Z-score



## Parameter oriented report

### M130 A

#### Chromium

Unit	µg/l
Mean ± CI (99%)	1,25 ± 0,0829
Minimum - Maximum	0,98 - 1,46
Control test value ± U	1,33 ± 0,13

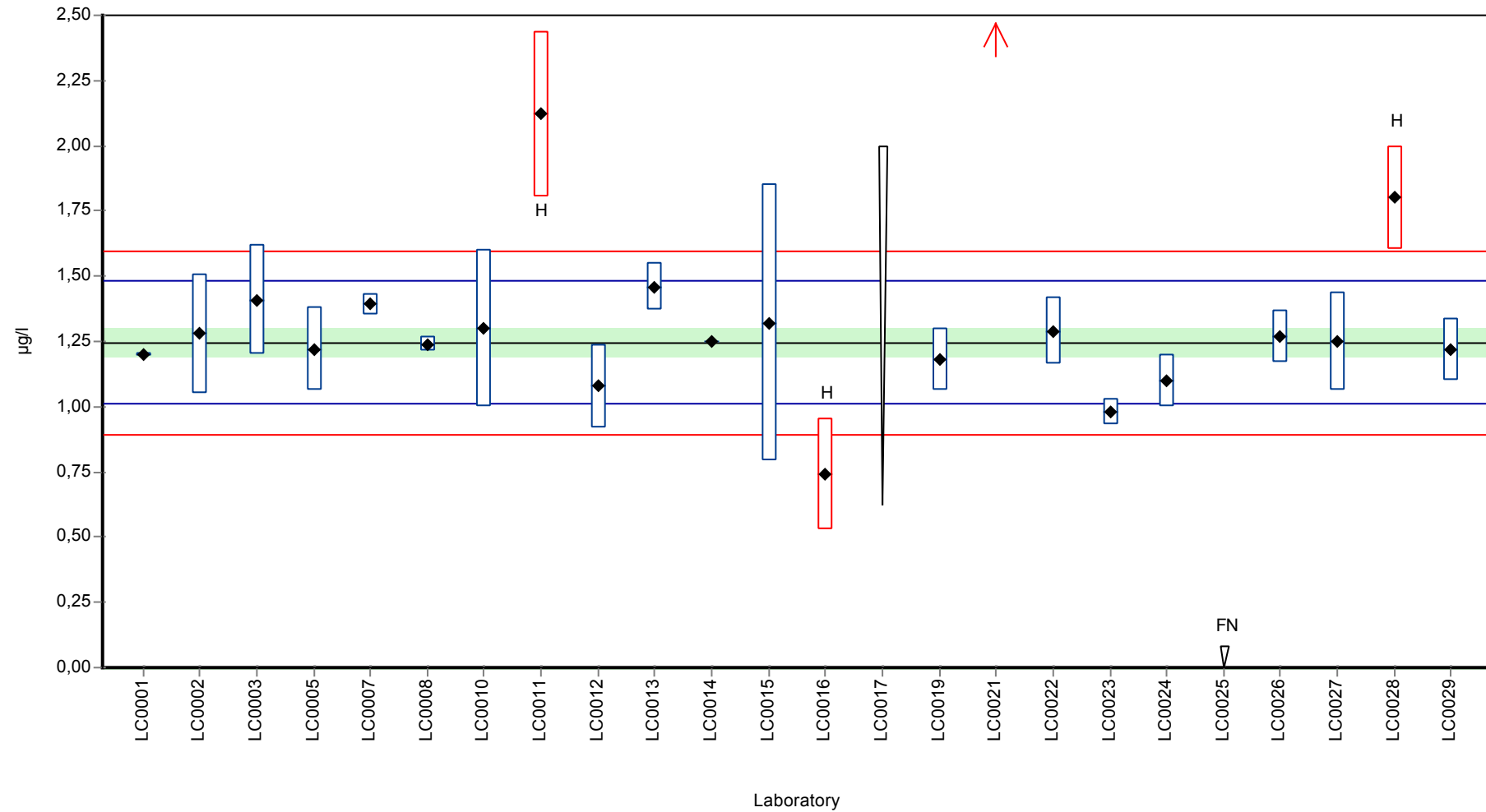
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1,2	0,006	96,3	-0,4	
LC0002	1,28	0,23	103	0,28	
LC0003	1,41	0,21	113	1,39	
LC0004	-	-	-	-	
LC0005	1,22	0,16	97,9	-0,23	
LC0006	-	-	-	-	
LC0007	1,392	0,0418	112	1,24	
LC0008	1,24	0,029	99,5	-0,06	
LC0009	-	-	-	-	
LC0010	1,3	0,3	104	0,46	
LC0011	2,12	0,32	170	7,45	H
LC0012	1,08	0,16	86,6	-1,42	
LC0013	1,46	0,089	117	1,82	
LC0014	1,247	-	100	0,00	
LC0015	1,32	0,53	106	0,63	
LC0016	0,74	0,212	59,4	-4,32	H
LC0017	< 2 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	1,18	0,12	94,7	-0,57	
LC0020	-	-	-	-	
LC0021	3,995	0,2	320	23,4	H
LC0022	1,29	0,129	103	0,37	
LC0023	0,98	0,05	78,6	-2,27	
LC0024	1,1	0,1	88,2	-1,25	
LC0025	<0,08 (LOD)	-	-	-	FN
LC0026	1,27	0,1	102	0,2	
LC0027	1,25	0,19	100	0,03	
LC0028	1,8	0,2	144	4,72	H
LC0029	1,22	0,12	97,9	-0,23	

#### Characteristics of parameter

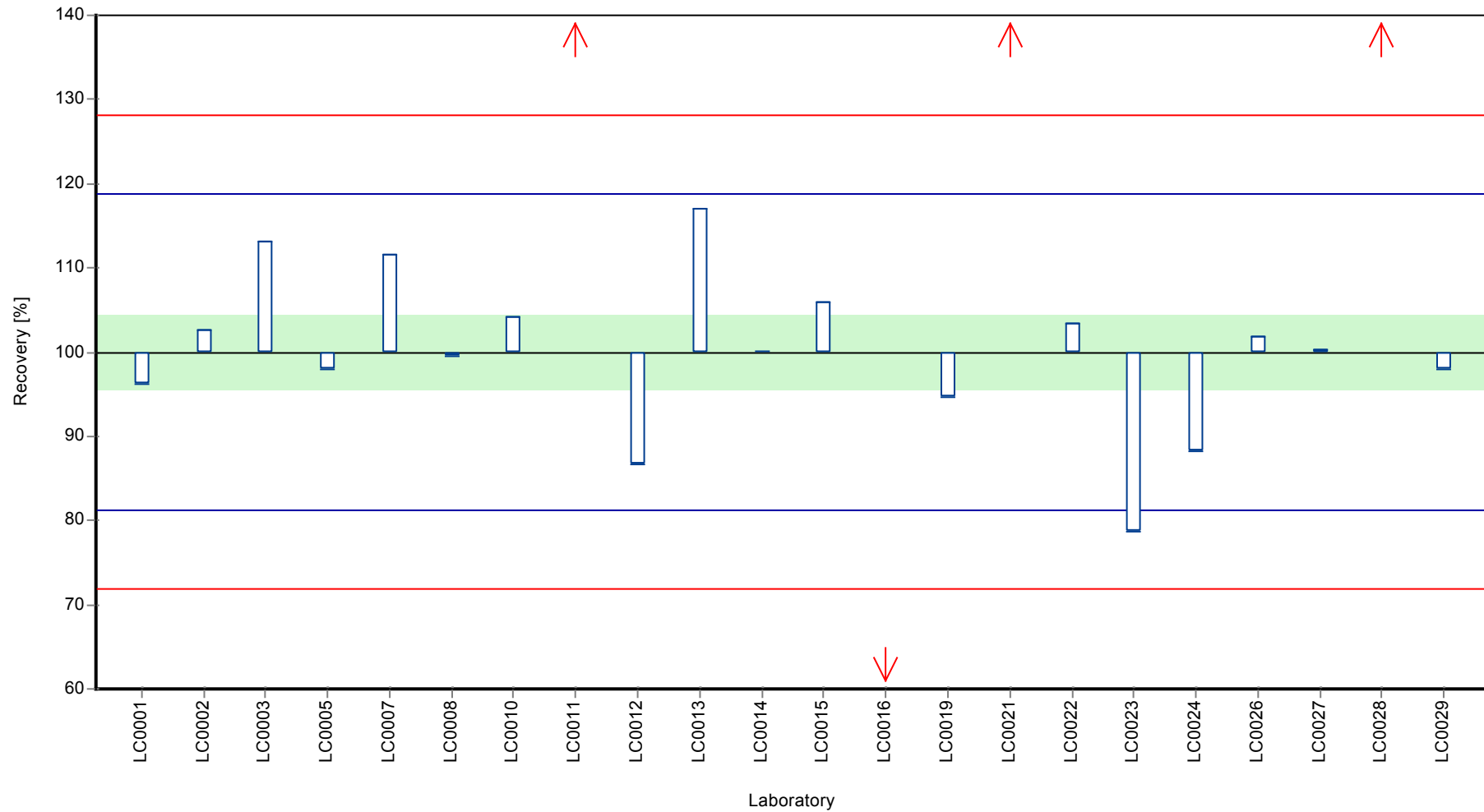
	all results	without outliers	Unit
Mean ± CI (99%)	1,41 ± 0,407	1,25 ± 0,0829	µg/l
Minimum	0,74	0,98	µg/l
Maximum	4	1,46	µg/l
Standard deviation	0,636	0,117	µg/l
rel. Standard deviation	45	9,4	%
n	22	18	-

Graphical presentation of results

Results



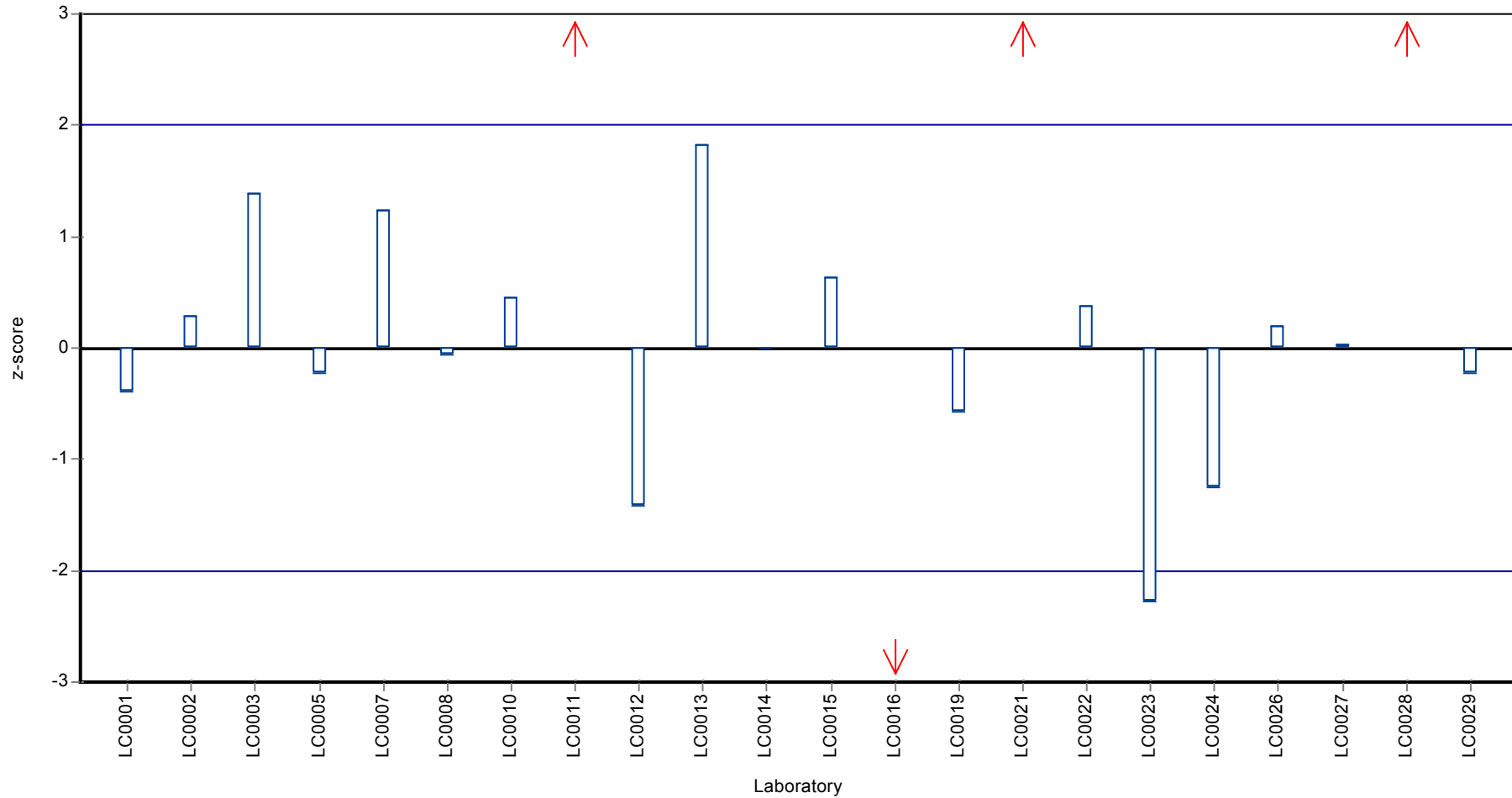
Recovery rate



Parameter oriented report Metals M130

Sample: M130A, Parameter: Chromium

Z-score



## Parameter oriented report

### M130 B

#### Chromium

Unit	µg/l
Mean ± CI (99%)	0,754 ± 0,0545
Minimum - Maximum	0,57 - 0,84
Control test value ± U	0,80 ± 0,13

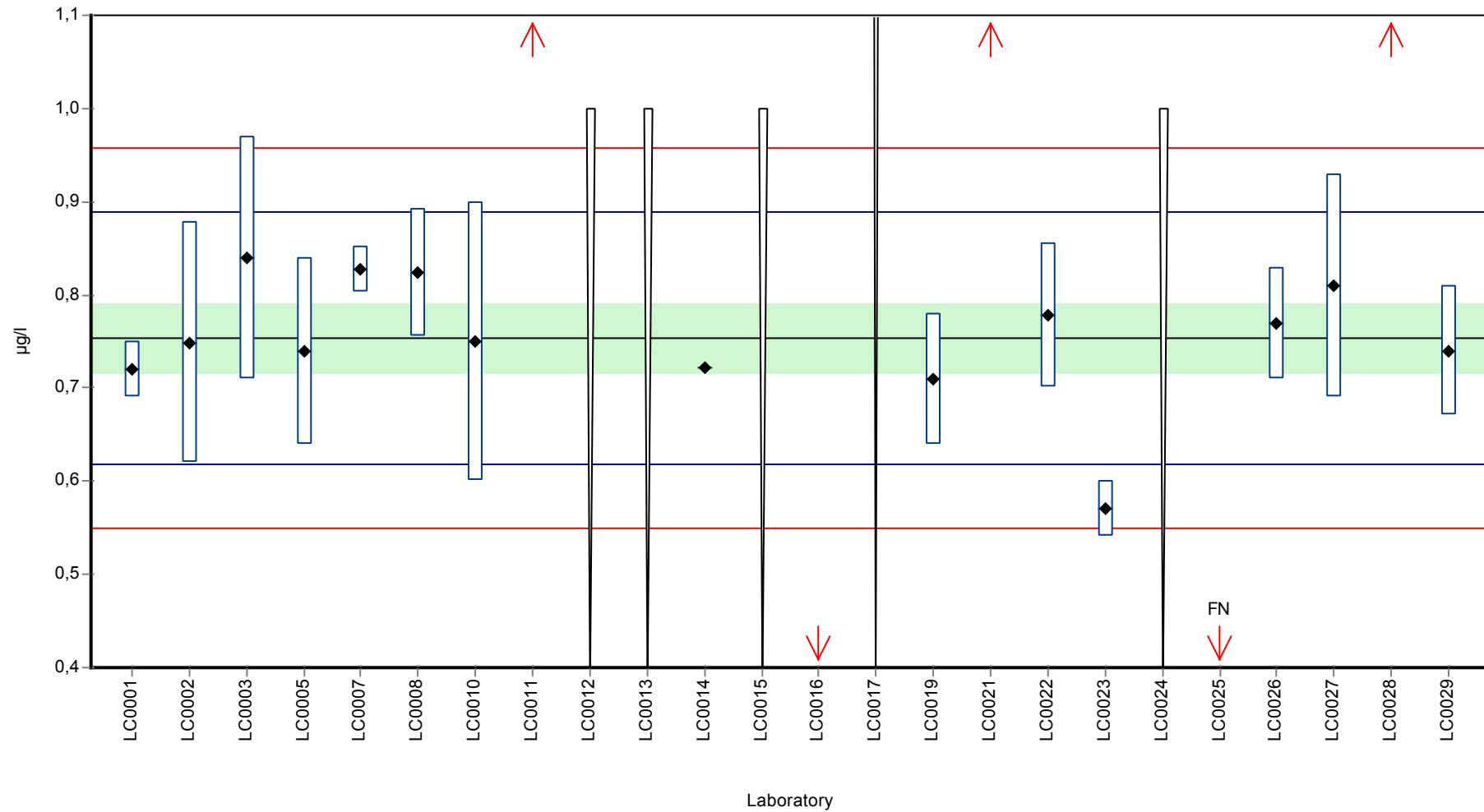
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,72	0,03	95,5	-0,49	
LC0002	0,749	0,13	99,4	-0,07	
LC0003	0,84	0,13	111	1,27	
LC0004	-	-	-	-	
LC0005	0,74	0,1	98,2	-0,2	
LC0006	-	-	-	-	
LC0007	0,828	0,0248	110	1,09	
LC0008	0,824	0,068	109	1,03	
LC0009	-	-	-	-	
LC0010	0,75	0,15	99,5	-0,05	
LC0011	1,6	0,24	212	12,4	H
LC0012	< 1 (LOQ)	-	-	-	
LC0013	< 1 (LOQ)	-	-	-	
LC0014	0,722	-	95,8	-0,47	
LC0015	< 1 (LOQ)	-	-	-	
LC0016	0,35	0,5429	46,4	-5,93	H
LC0017	< 2 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	0,71	0,07	94,2	-0,64	
LC0020	-	-	-	-	
LC0021	3,521	0,176	467	40,7	H
LC0022	0,778	0,0778	103	0,36	
LC0023	0,57	0,03	75,6	-2,7	
LC0024	< 1 (LOQ)	-	-	-	
LC0025	<0,08 (LOD)	-	-	-	FN
LC0026	0,77	0,06	102	0,24	
LC0027	0,81	0,12	107	0,83	
LC0028	1,1	0,1	146	5,09	H
LC0029	0,74	0,07	98,2	-0,2	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0,951 ± 0,486	0,754 ± 0,0545	µg/l
Minimum	0,35	0,57	µg/l
Maximum	3,52	0,84	µg/l
Standard deviation	0,687	0,068	µg/l
rel. Standard deviation	72,2	9,03	%
n	18	14	-

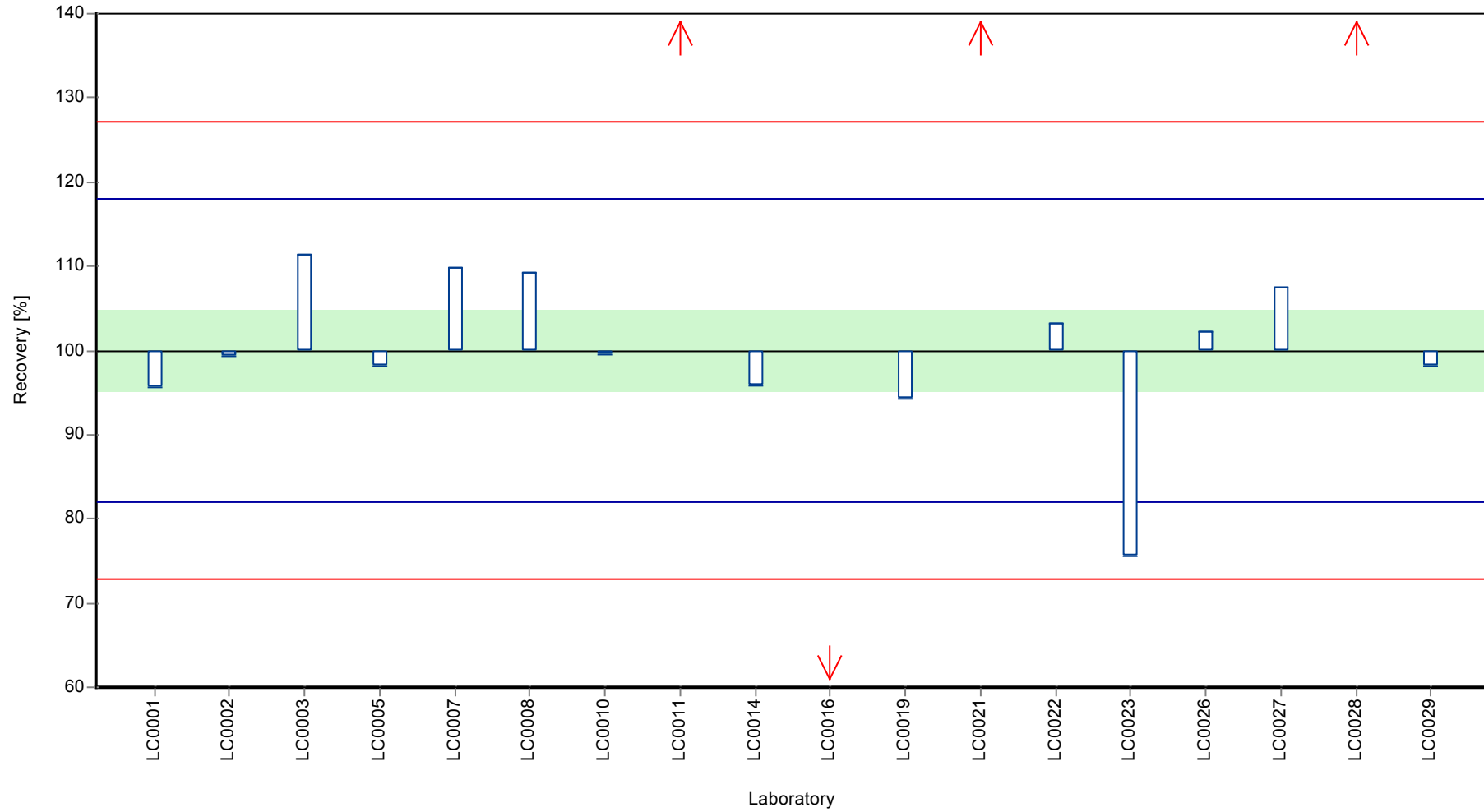
Graphical presentation of results

Results





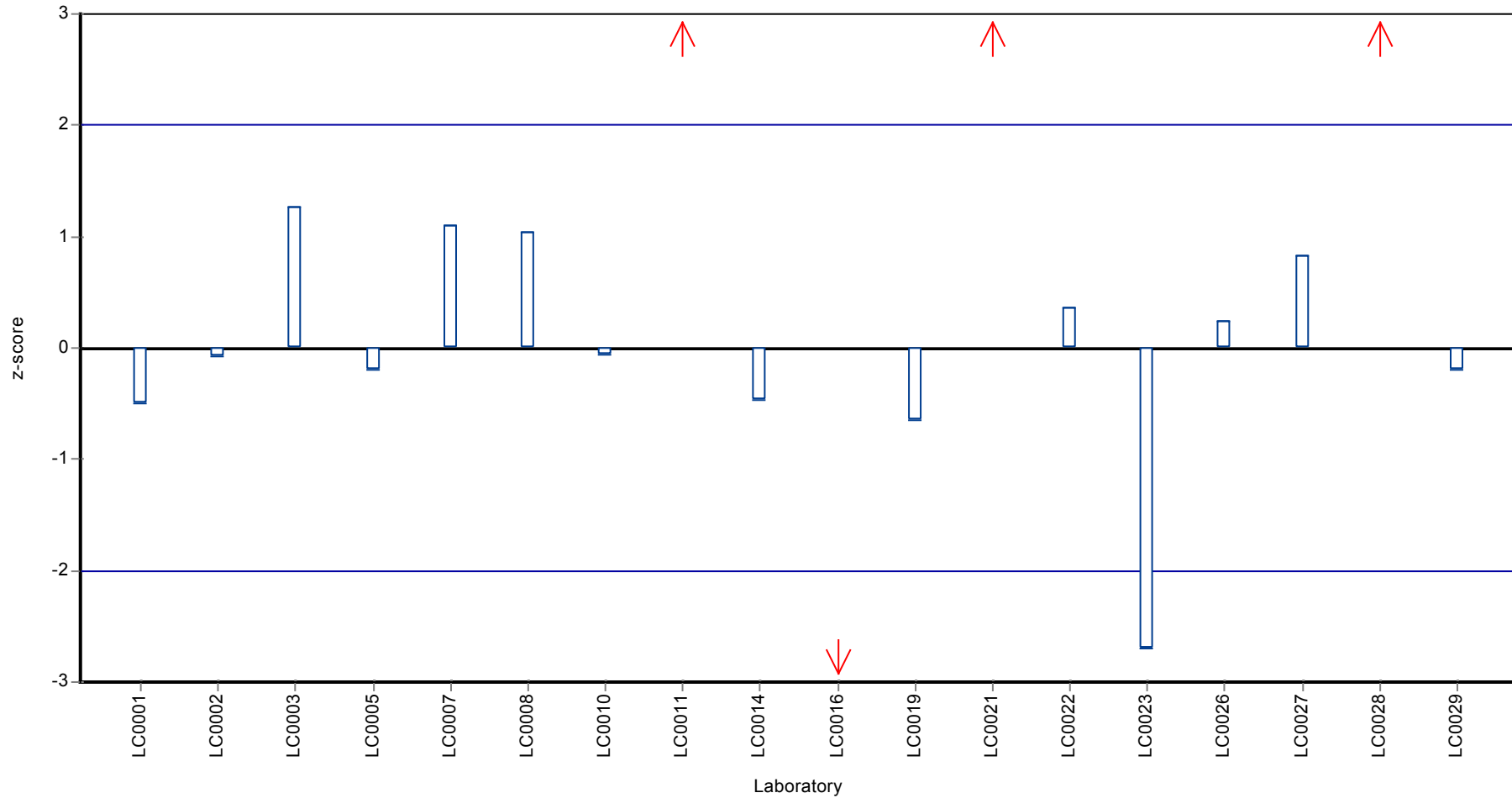
Recovery rate



Parameter oriented report Metals M130

Sample: M130B, Parameter: Chromium

Z-score



## Parameter oriented report

### M130 A

#### Copper

Unit	µg/l
Mean ± CI (99%)	5,97 ± 0,302
Minimum - Maximum	4,64 - 6,6
Control test value ± U	5,87 ± 0,43

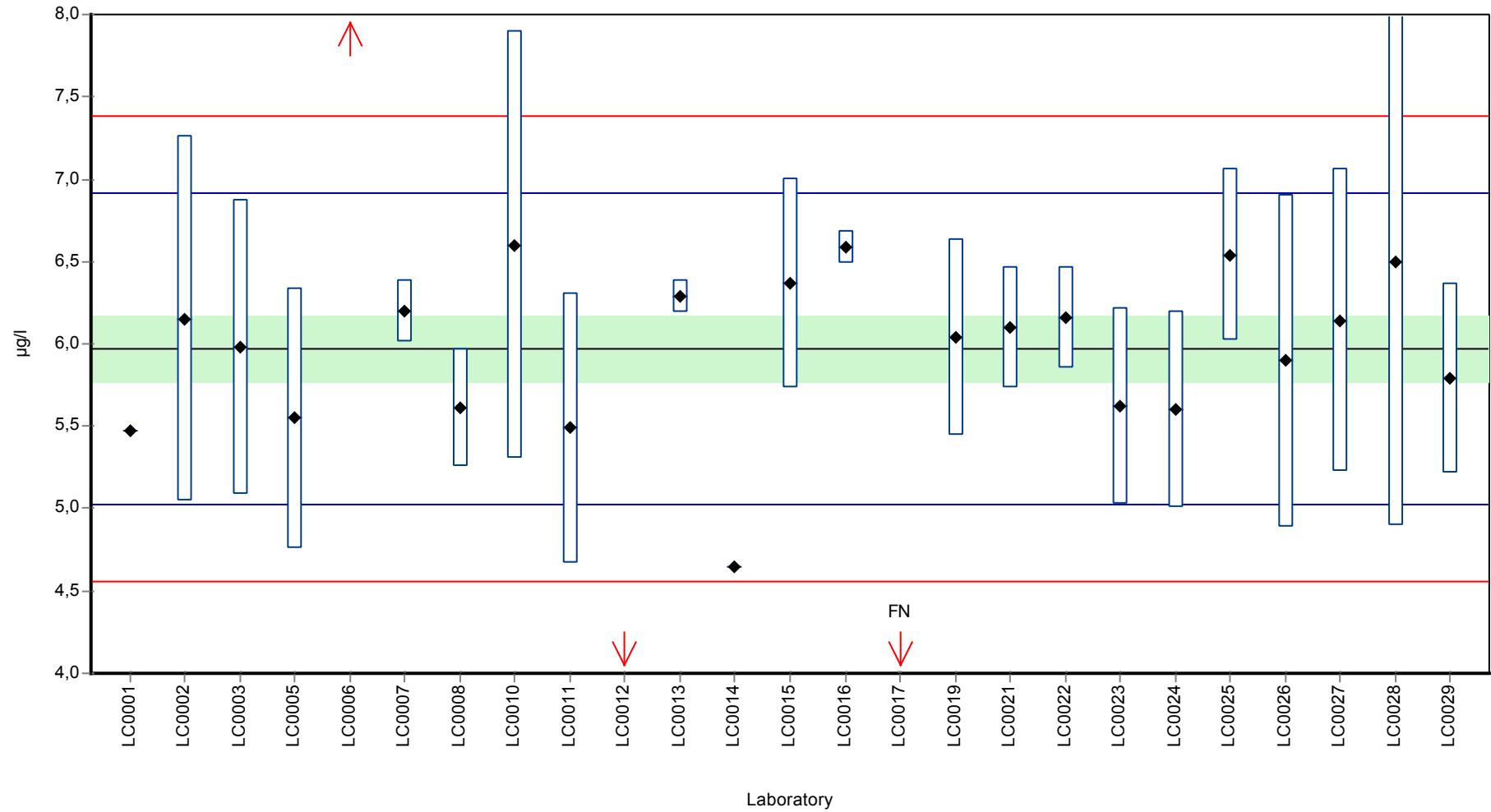
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	5,47	0,006	91,6	-1,06	
LC0002	6,15	1,11	103	0,38	
LC0003	5,98	0,9	100	0,02	
LC0004	-	-	-	-	
LC0005	5,55	0,79	93	-0,89	
LC0006	20	-	335	29,8	H
LC0007	6,199	0,186	104	0,49	
LC0008	5,61	0,36	94	-0,76	
LC0009	-	-	-	-	
LC0010	6,6	1,3	111	1,34	
LC0011	5,49	0,82	92	-1,02	
LC0012	2,61	0,39	43,7	-7,13	H
LC0013	6,29	0,1	105	0,68	
LC0014	4,642	-	77,8	-2,82	
LC0015	6,37	0,64	107	0,85	
LC0016	6,59	0,0976	110	1,32	
LC0017	< 2 (LOQ)	-	-	-	FN
LC0018	-	-	-	-	
LC0019	6,04	0,6	101	0,15	
LC0020	-	-	-	-	
LC0021	6,098	0,366	102	0,27	
LC0022	6,16	0,31	103	0,4	
LC0023	5,62	0,6	94,1	-0,74	
LC0024	5,6	0,6	93,8	-0,78	
LC0025	6,54	0,5232	110	1,21	
LC0026	5,9	1,01	98,8	-0,15	
LC0027	6,14	0,92	103	0,36	
LC0028	6,5	1,6	109	1,13	
LC0029	5,79	0,58	97	-0,38	

#### Characteristics of parameter

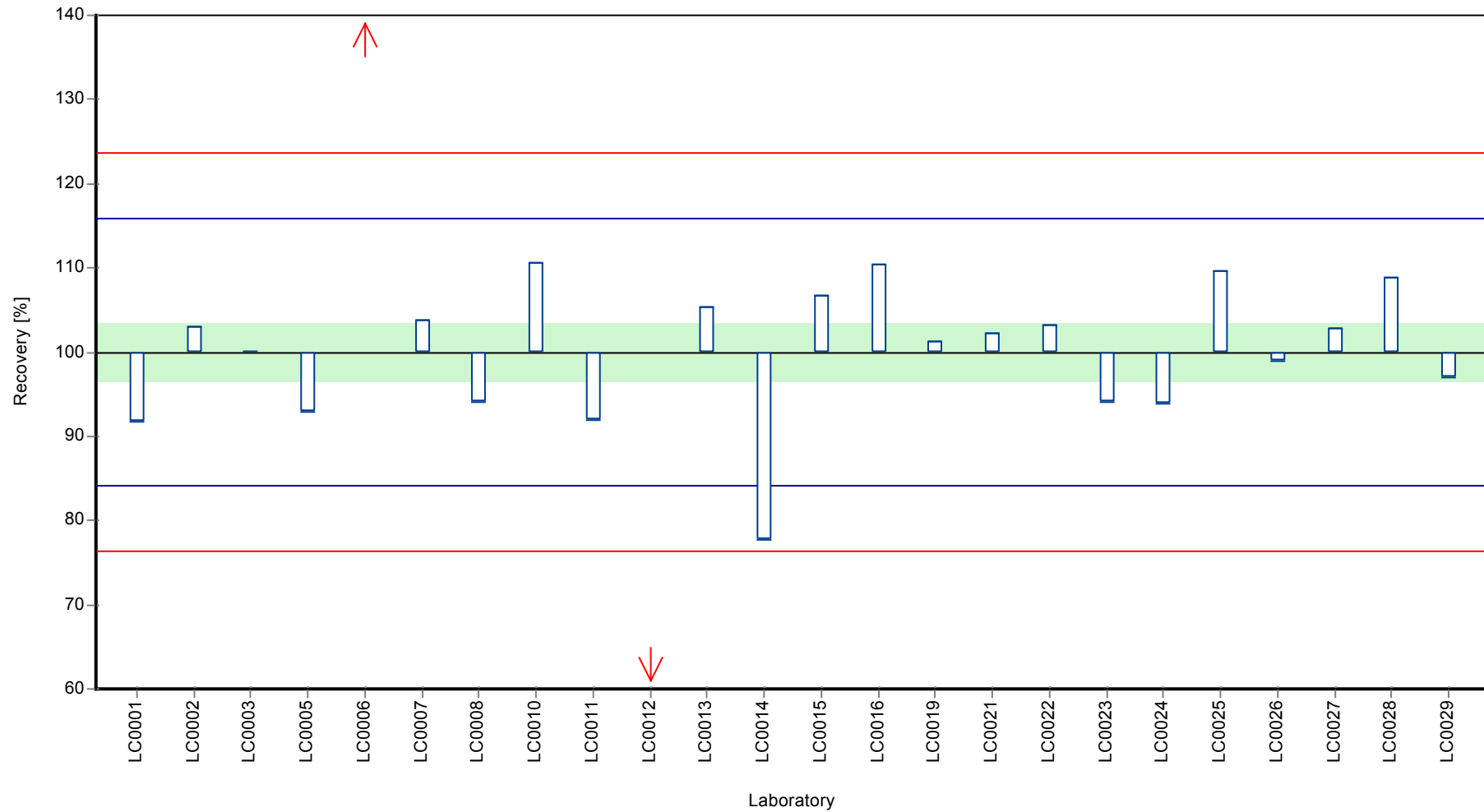
	all results	without outliers	Unit
Mean ± CI (99%)	6,41 ± 1,84	5,97 ± 0,302	µg/l
Minimum	2,61	4,64	µg/l
Maximum	20	6,6	µg/l
Standard deviation	3,01	0,471	µg/l
rel. Standard deviation	46,9	7,9	%
n	24	22	-

Graphical presentation of results

Results



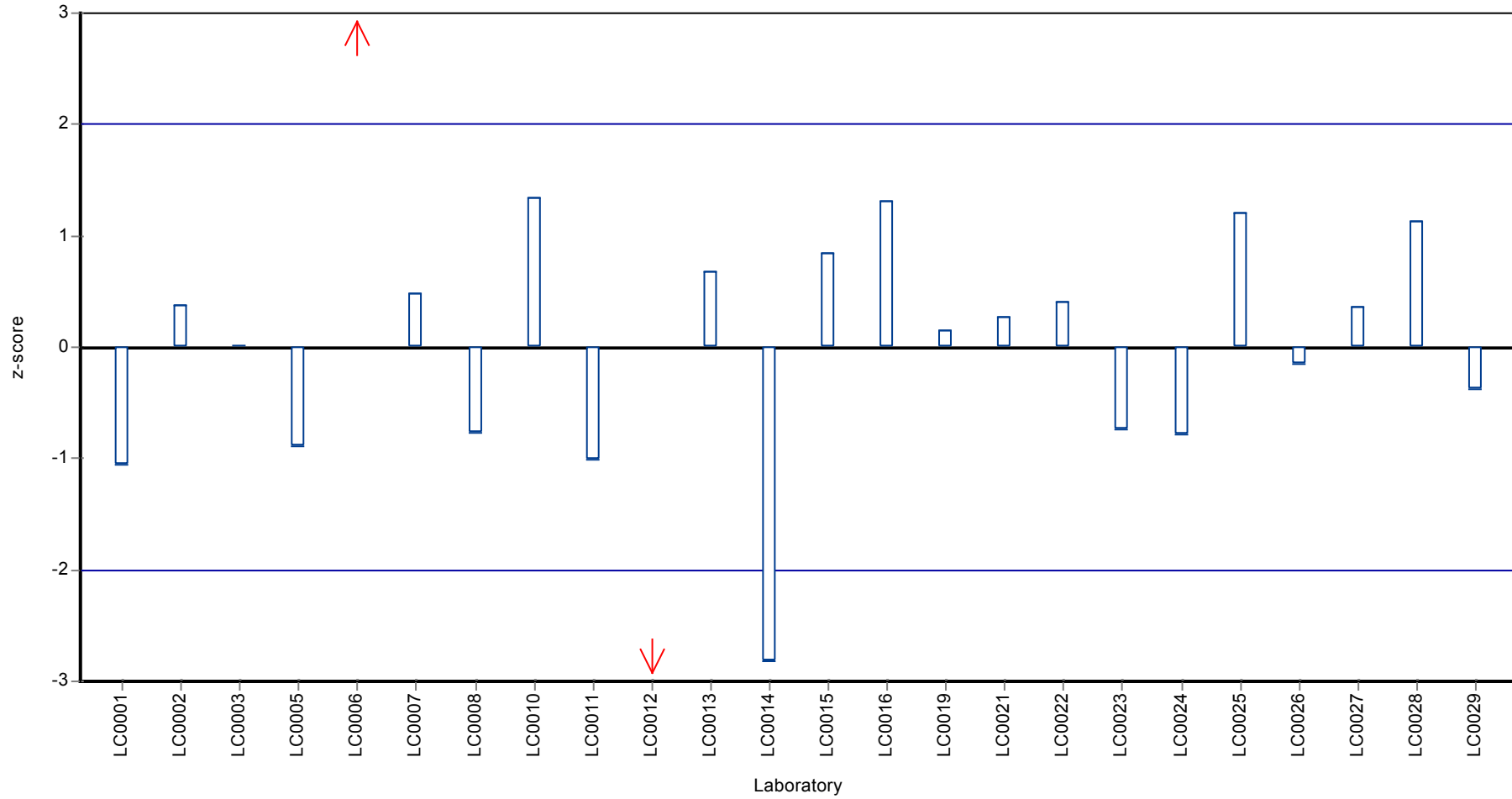
Recovery rate



Parameter oriented report Metals M130

Sample: M130A, Parameter: Copper

Z-score



## Parameter oriented report

### M130 B

#### Copper

Unit	µg/l
Mean ± CI (99%)	5,46 ± 0,2
Minimum - Maximum	4,92 - 6,07
Control test value ± U	5,35 ± 0,15

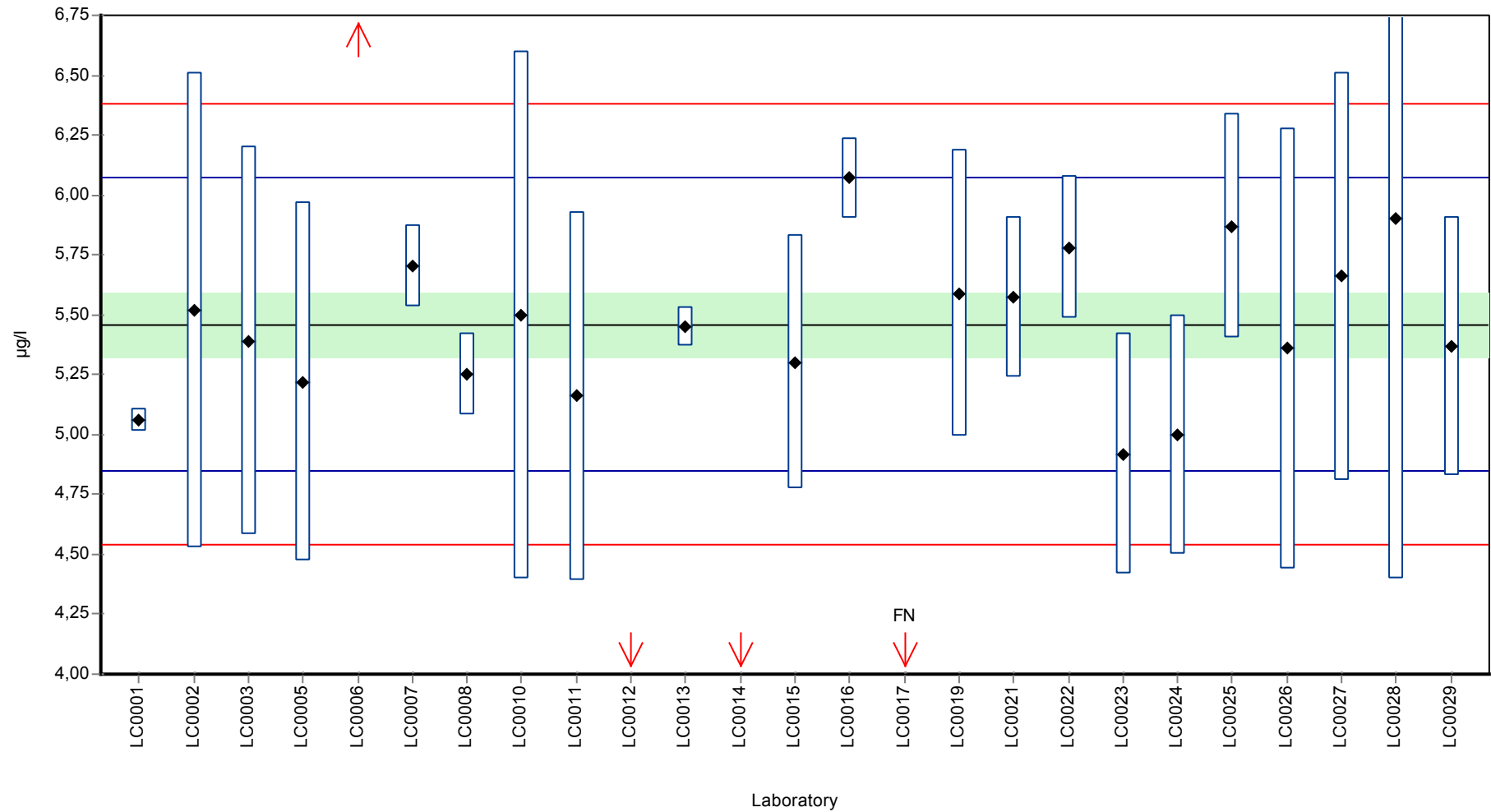
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	5,06	0,05	92,7	-1,3	
LC0002	5,52	0,99	101	0,2	
LC0003	5,39	0,81	98,7	-0,23	
LC0004	-	-	-	-	
LC0005	5,22	0,75	95,6	-0,78	
LC0006	18	-	330	41	H
LC0007	5,703	0,171	104	0,8	
LC0008	5,25	0,17	96,2	-0,68	
LC0009	-	-	-	-	
LC0010	5,5	1,1	101	0,13	
LC0011	5,16	0,77	94,5	-0,98	
LC0012	1,93	0,29	35,4	-11,5	H
LC0013	5,45	0,08	99,8	-0,03	
LC0014	3,77	-	69,1	-5,52	H
LC0015	5,3	0,53	97,1	-0,52	
LC0016	6,07	0,1679	111	1,99	
LC0017	< 2 (LOQ)	-	-	-	FN
LC0018	-	-	-	-	
LC0019	5,59	0,6	102	0,43	
LC0020	-	-	-	-	
LC0021	5,576	0,335	102	0,38	
LC0022	5,78	0,298	106	1,05	
LC0023	4,92	0,5	90,1	-1,76	
LC0024	5	0,5	91,6	-1,5	
LC0025	5,87	0,4696	108	1,34	
LC0026	5,36	0,92	98,2	-0,33	
LC0027	5,66	0,85	104	0,66	
LC0028	5,9	1,5	108	1,44	
LC0029	5,37	0,54	98,4	-0,29	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	5,76 ± 1,68	5,46 ± 0,2	µg/l
Minimum	1,93	4,92	µg/l
Maximum	18	6,07	µg/l
Standard deviation	2,74	0,306	µg/l
rel. Standard deviation	47,5	5,61	%
n	24	21	-

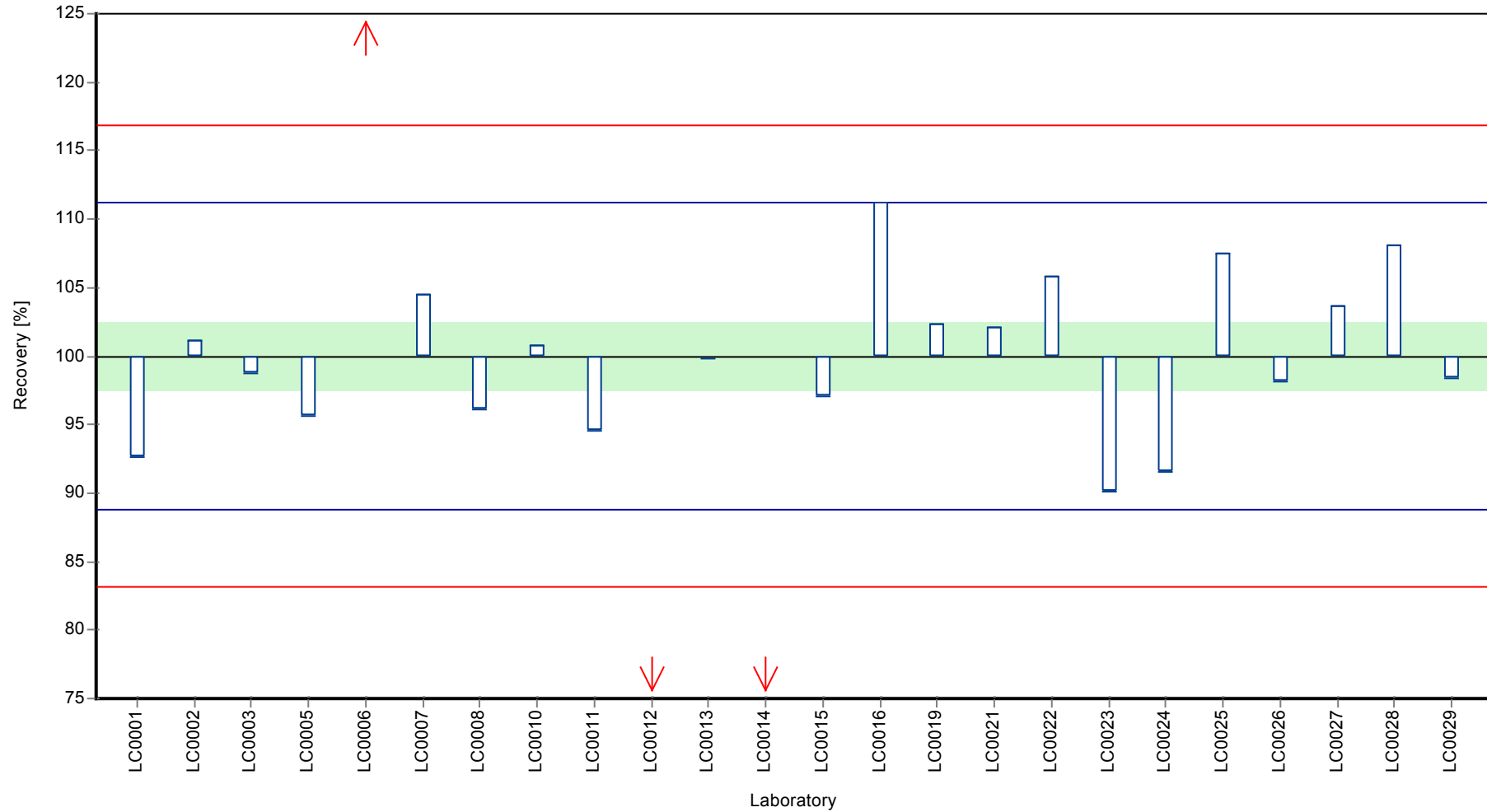
Graphical presentation of results

Results





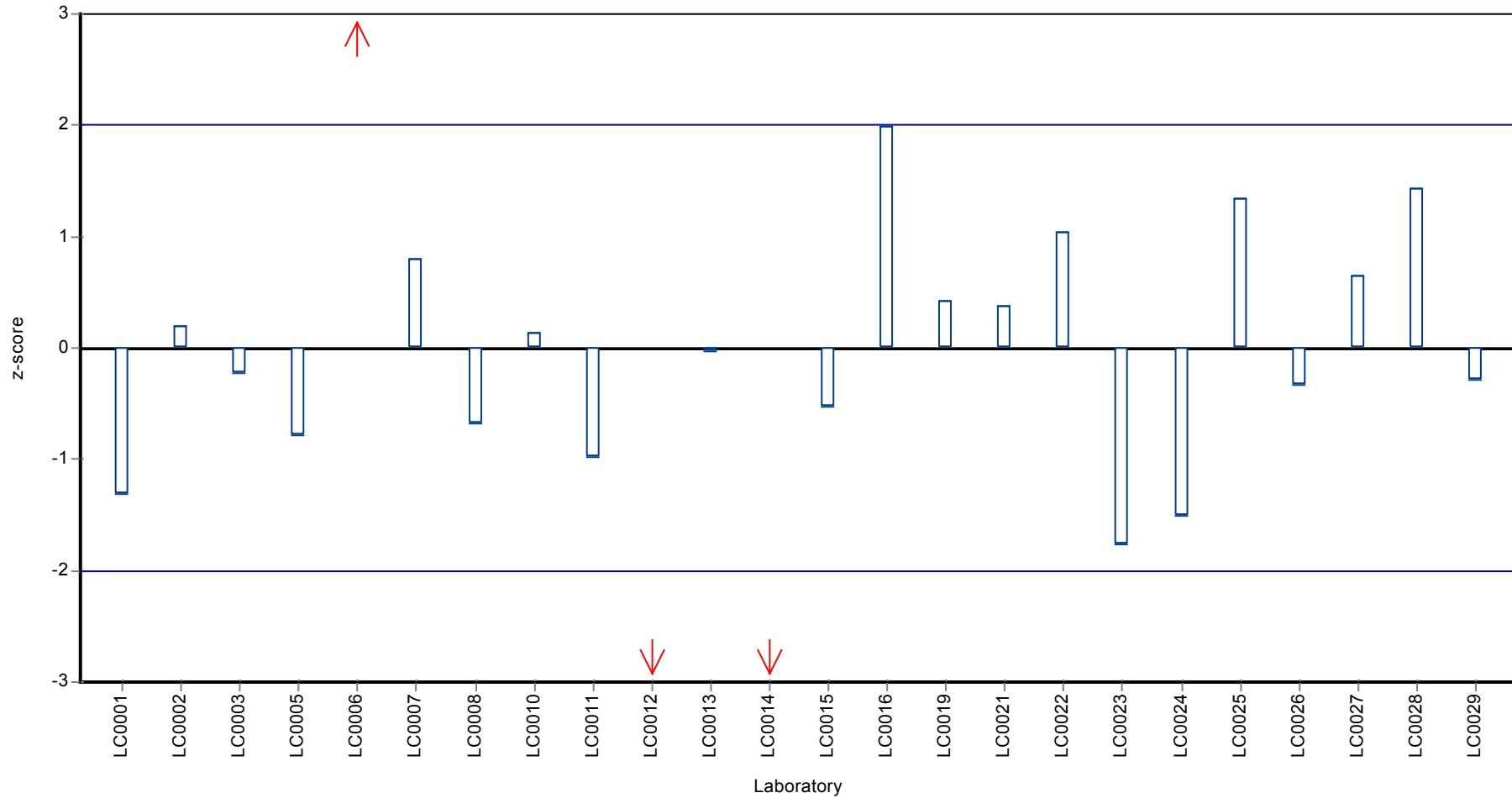
Recovery rate



Parameter oriented report Metals M130

Sample: M130B, Parameter: Copper

Z-score



## Parameter oriented report

### M130 A

#### Iron

Unit	µg/l
Mean ± CI (99%)	1,78 ± 0,328
Minimum - Maximum	0,96 - 2,36
Control test value ± U	< 15 (LOQ)

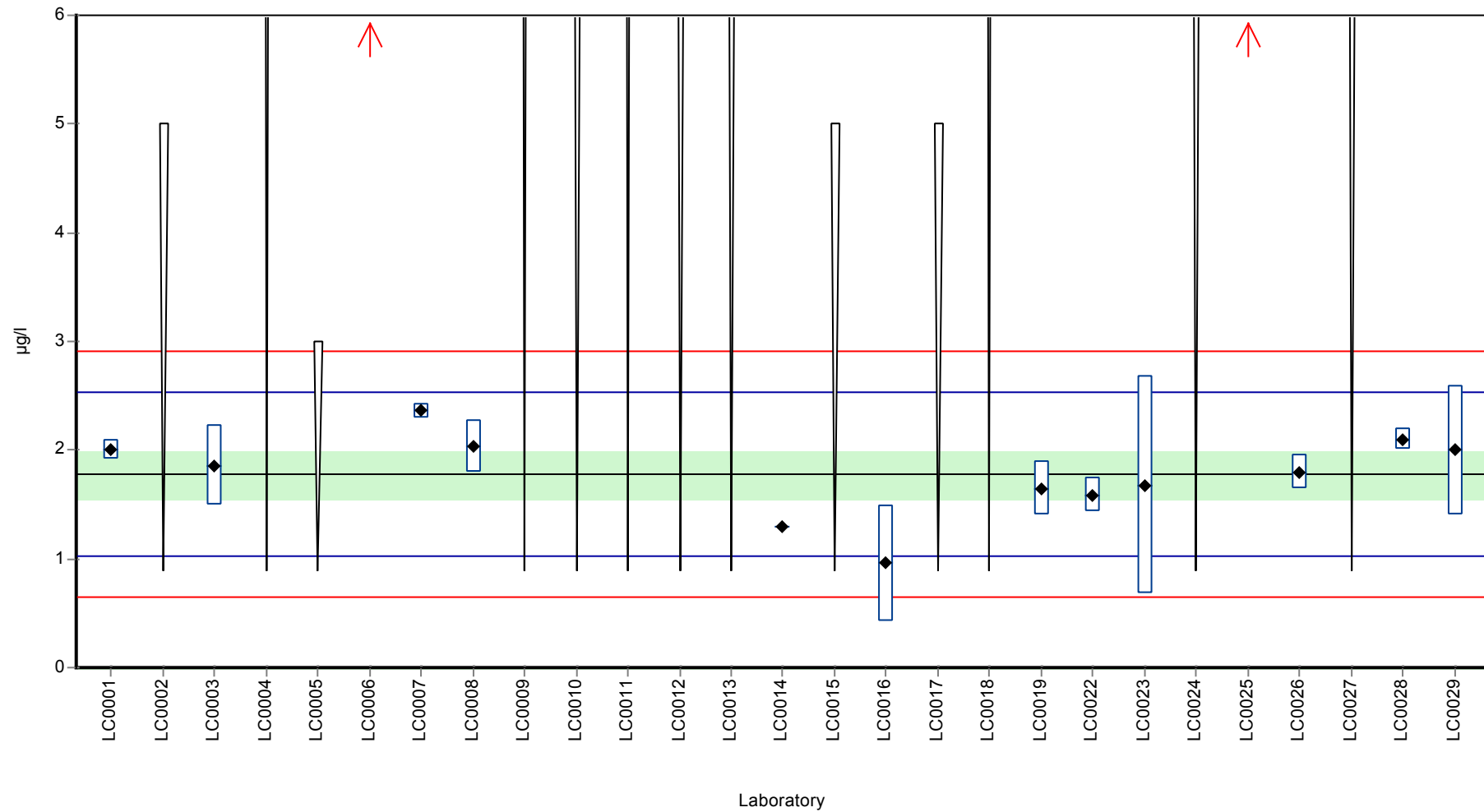
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2	0,09	112	0,59	
LC0002	< 5 (LOQ)	-	-	-	
LC0003	1,86	0,37	105	0,22	
LC0004	< 20 (LOQ)	-	-	-	
LC0005	< 3 (LOQ)	-	-	-	
LC0006	12	-	675	27	H
LC0007	2,36	0,0708	133	1,54	
LC0008	2,04	0,24	115	0,69	
LC0009	< 20 (LOQ)	-	-	-	
LC0010	< 10 (LOQ)	-	-	-	
LC0011	< 20 (LOQ)	-	-	-	
LC0012	< 10 (LOQ)	-	-	-	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	1,298	-	73	-1,27	
LC0015	< 5 (LOQ)	-	-	-	
LC0016	0,96	0,5361	54	-2,16	
LC0017	< 5 (LOQ)	-	-	-	
LC0018	< 20 (LOQ)	-	-	-	
LC0019	1,65	0,25	92,8	-0,34	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	1,59	0,159	89,4	-0,5	
LC0023	1,68	1	94,5	-0,26	
LC0024	< 10 (LOQ)	-	-	-	
LC0025	29,63	7,7038	1670	73,5	H
LC0026	1,8	0,16	101	0,06	
LC0027	< 10 (LOQ)	-	-	-	
LC0028	2,1	0,1	118	0,85	
LC0029	2	0,6	112	0,59	

#### Characteristics of parameter

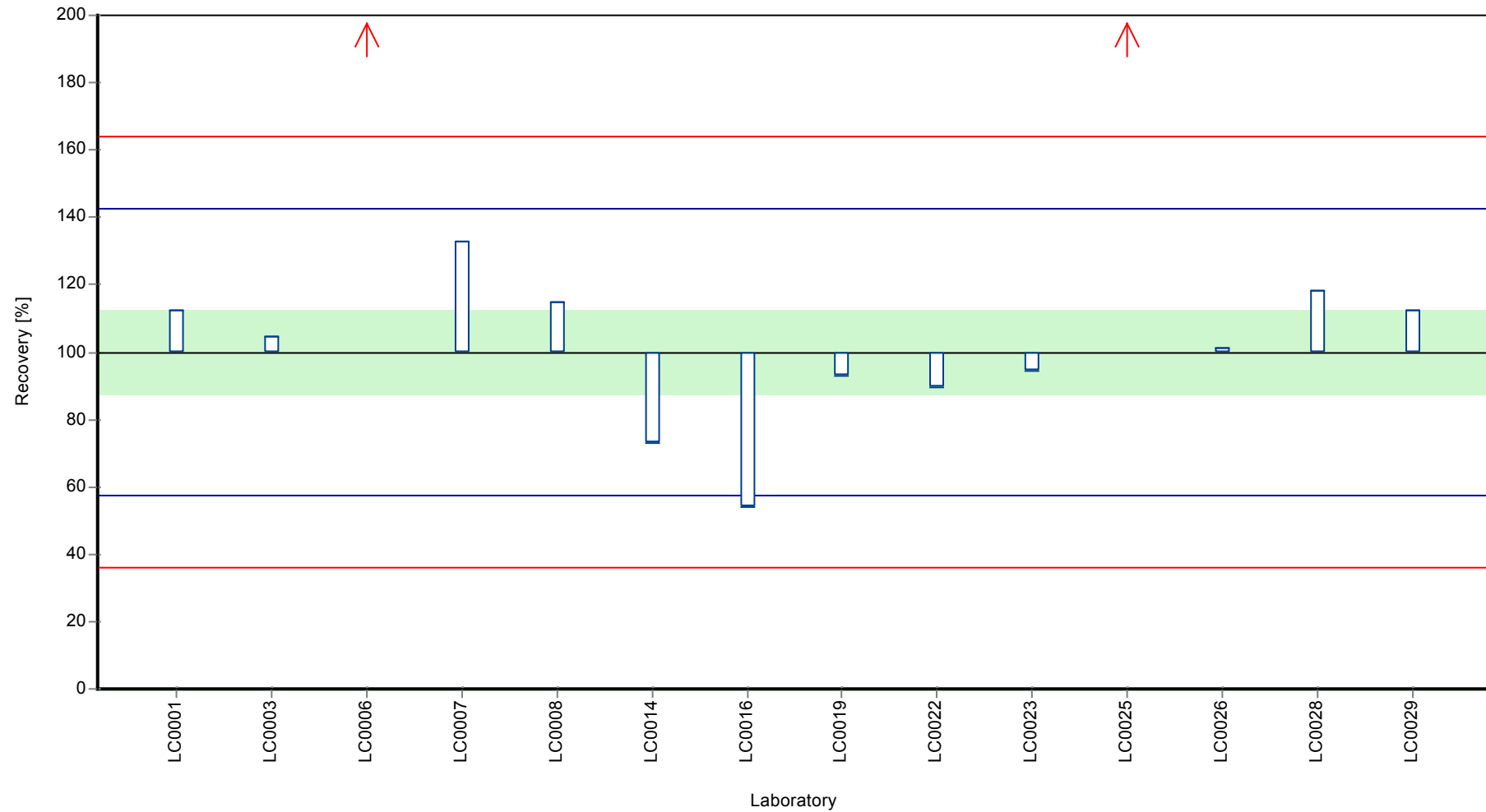
	all results	without outliers	Unit
Mean ± CI (99%)	4,5 ± 6,2	1,78 ± 0,328	µg/l
Minimum	0,96	0,96	µg/l
Maximum	29,6	2,36	µg/l
Standard deviation	7,74	0,379	µg/l
rel. Standard deviation	172	21,3	%
n	14	12	-

Graphical presentation of results

Results



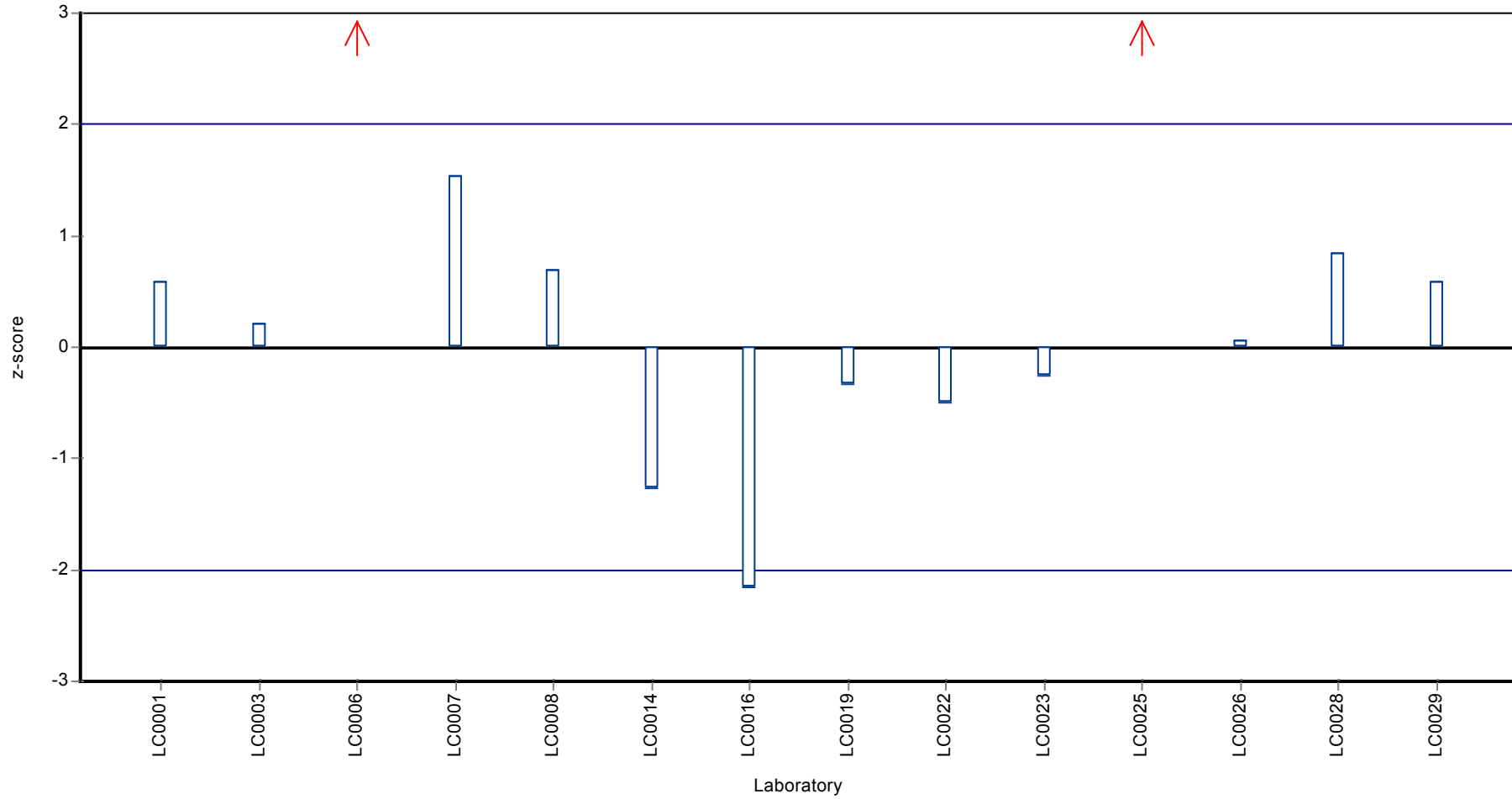
Recovery rate



Parameter oriented report Metals M130

Sample: M130A, Parameter: Iron

Z-score



## Parameter oriented report

### M130 B

#### Iron

Unit	µg/l
Mean ± CI (99%)	10,9 ± 0,507
Minimum - Maximum	9,17 - 12
Control test value ± U	< 15 (LOQ)

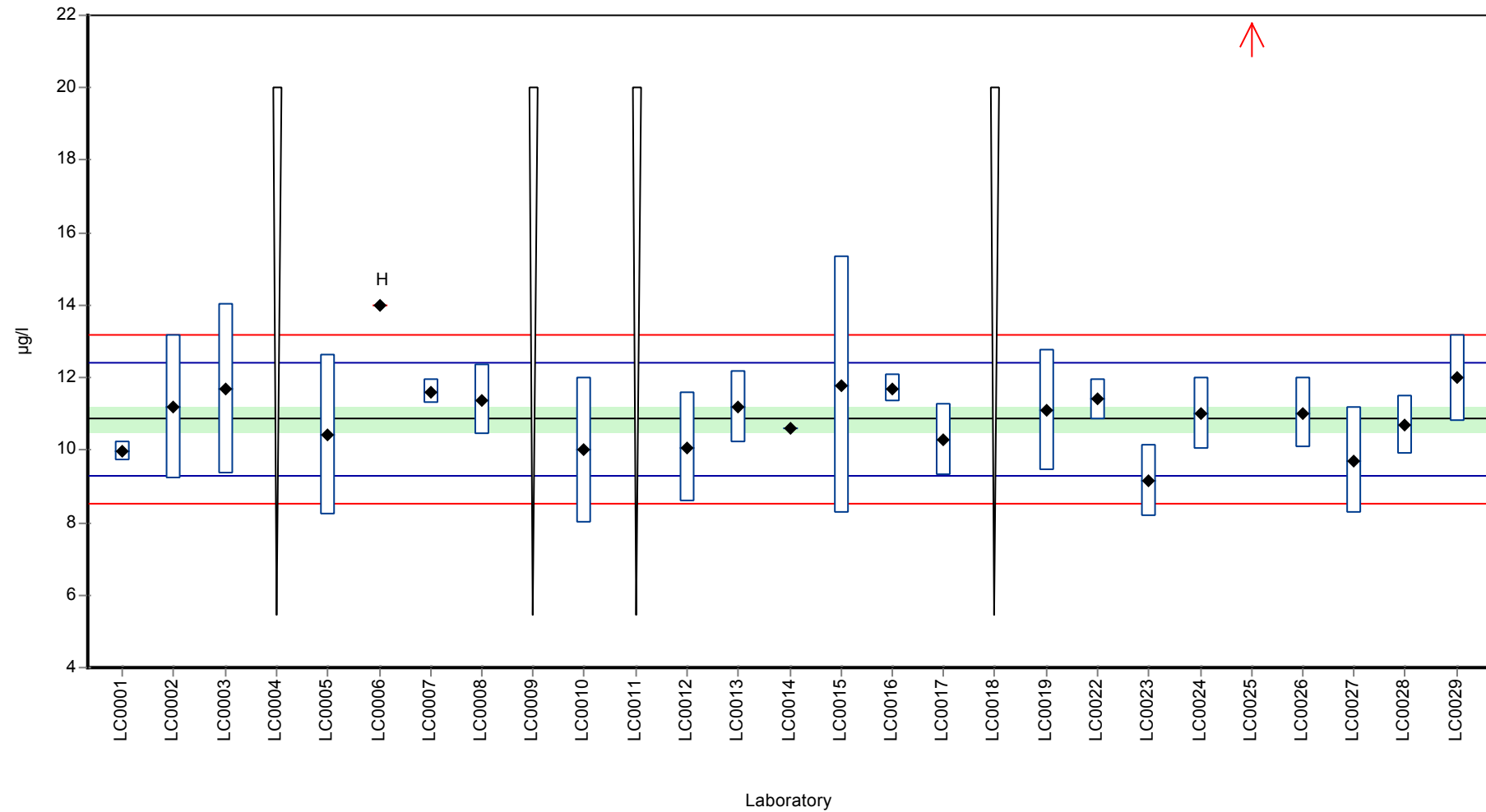
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	9,96	0,273	91,7	-1,16	
LC0002	11,2	2	103	0,44	
LC0003	11,69	2,34	108	1,07	
LC0004	< 20 (LOQ)	-	-	-	
LC0005	10,41	2,22	95,9	-0,58	
LC0006	14	-	129	4,06	H
LC0007	11,609	0,348	107	0,97	
LC0008	11,39	0,97	105	0,69	
LC0009	< 20 (LOQ)	-	-	-	
LC0010	10	2	92,1	-1,11	
LC0011	< 20 (LOQ)	-	-	-	
LC0012	10,07	1,51	92,7	-1,02	
LC0013	11,2	1	103	0,44	
LC0014	10,59	-	97,5	-0,35	
LC0015	11,8	3,54	109	1,22	
LC0016	11,69	0,3851	108	1,07	
LC0017	10,3	1	94,9	-0,72	
LC0018	< 20 (LOQ)	-	-	-	
LC0019	11,1	1,67	102	0,31	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	11,4	0,57	105	0,7	
LC0023	9,17	1	84,5	-2,18	
LC0024	11	1	101	0,18	
LC0025	37,67	9,7942	347	34,6	H
LC0026	11,02	0,98	101	0,21	
LC0027	9,71	1,46	89,4	-1,48	
LC0028	10,7	0,8	98,5	-0,2	
LC0029	12	1,2	111	1,48	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	12,2 ± 3,53	10,9 ± 0,507	µg/l
Minimum	9,17	9,17	µg/l
Maximum	37,7	12	µg/l
Standard deviation	5,65	0,774	µg/l
rel. Standard deviation	46,4	7,13	%
n	23	21	-

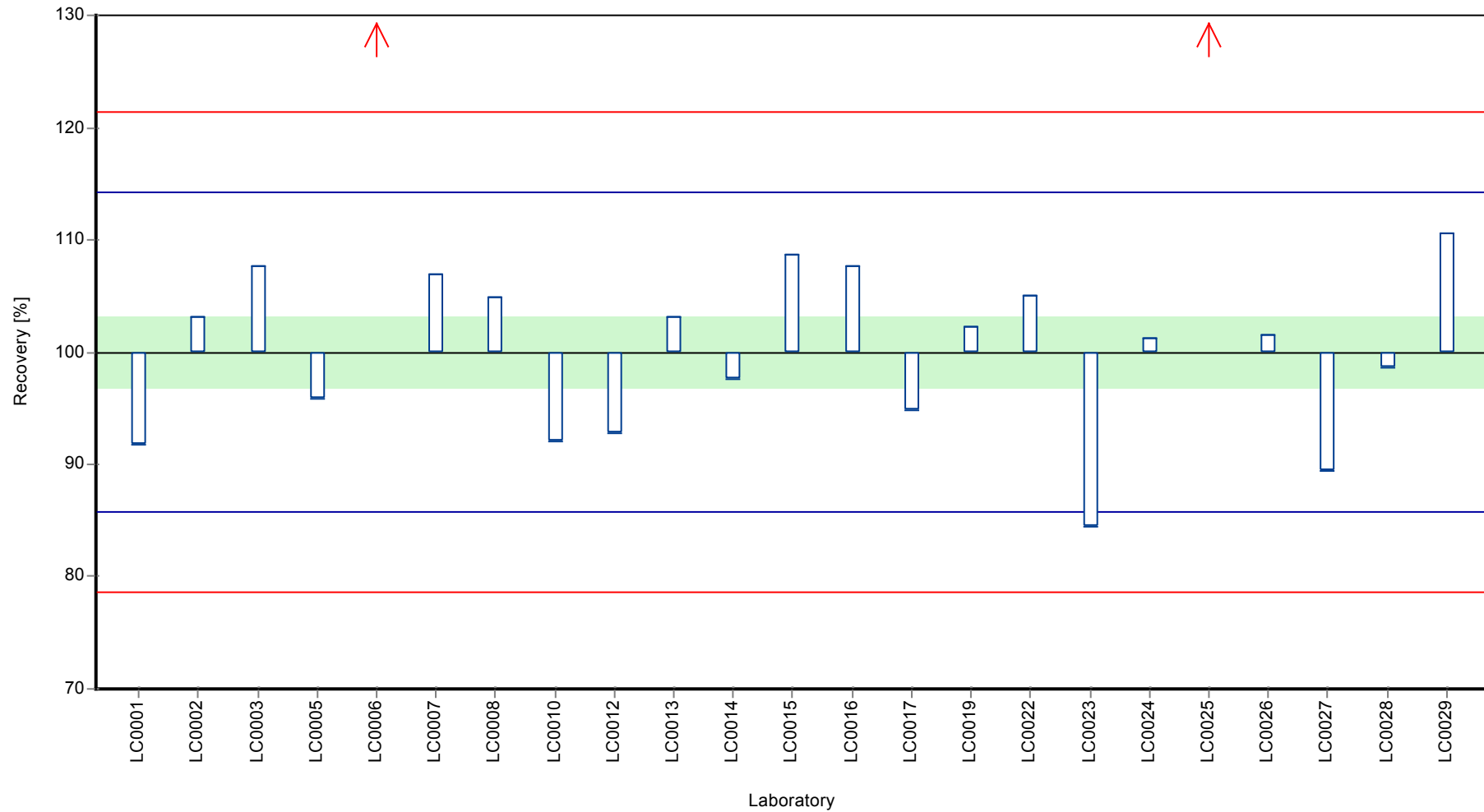
Graphical presentation of results

Results





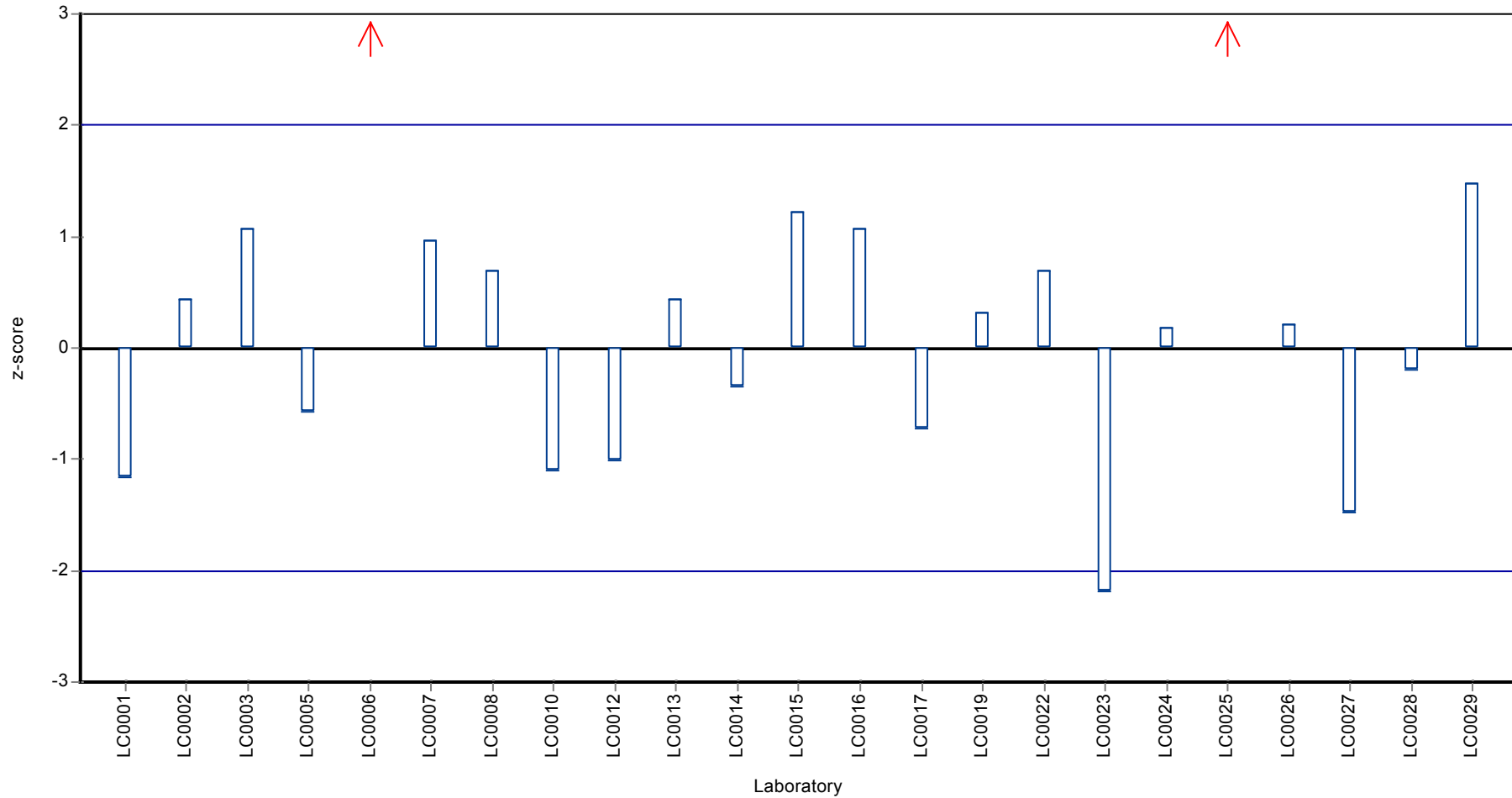
Recovery rate



Parameter oriented report Metals M130

Sample: M130B, Parameter: Iron

Z-score



## Parameter oriented report

### M130 A

#### Mercury

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0,035 - 0,035
Control test value ± U	< 0,025 (LOD)

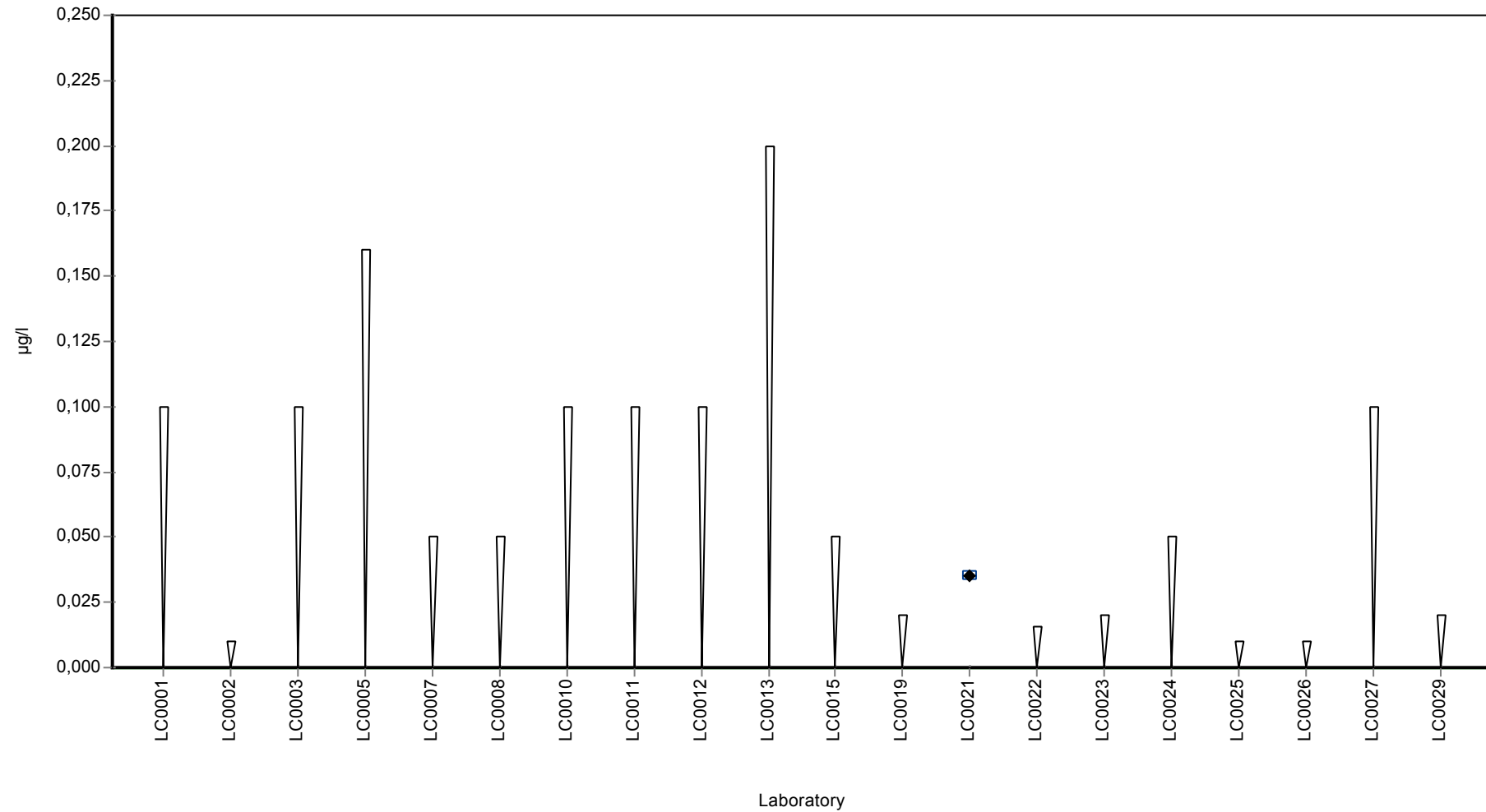
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 0,1 (LOQ)	-	-	-	
LC0002	< 0,01 (LOQ)	-	-	-	
LC0003	< 0,1 (LOQ)	-	-	-	
LC0004	-	-	-	-	
LC0005	< 0,16 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	< 0,05 (LOQ)	-	-	-	
LC0008	< 0,05 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	< 0,1 (LOQ)	-	-	-	
LC0011	< 0,1 (LOQ)	-	-	-	
LC0012	< 0,1 (LOQ)	-	-	-	
LC0013	< 0,2 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	< 0,05 (LOQ)	-	-	-	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	< 0,02 (LOQ)	-	-	-	
LC0020	-	-	-	-	
LC0021	0,035	0,002	-	-	
LC0022	< 0,016 (LOQ)	-	-	-	
LC0023	<0,02 (LOD)	-	-	-	
LC0024	< 0,05 (LOQ)	-	-	-	
LC0025	<0,01 (LOD)	-	-	-	
LC0026	< 0,01 (LOQ)	-	-	-	
LC0027	< 0,1 (LOQ)	-	-	-	
LC0028	-	-	-	-	
LC0029	<0,02 (LOD)	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0,035	-	µg/l
Minimum	0,035	0,035	µg/l
Maximum	0,035	0,035	µg/l
Standard deviation	-	-	µg/l
rel. Standard deviation	-	-	%
n	1	1	-

Graphical presentation of results

Results



## Parameter oriented report

### M130 B

#### Mercury

Unit	µg/l
Mean ± CI (99%)	0,134 ± 0,0242
Minimum - Maximum	0,088 - 0,22
Control test value ± U	0,139 ± 0,005

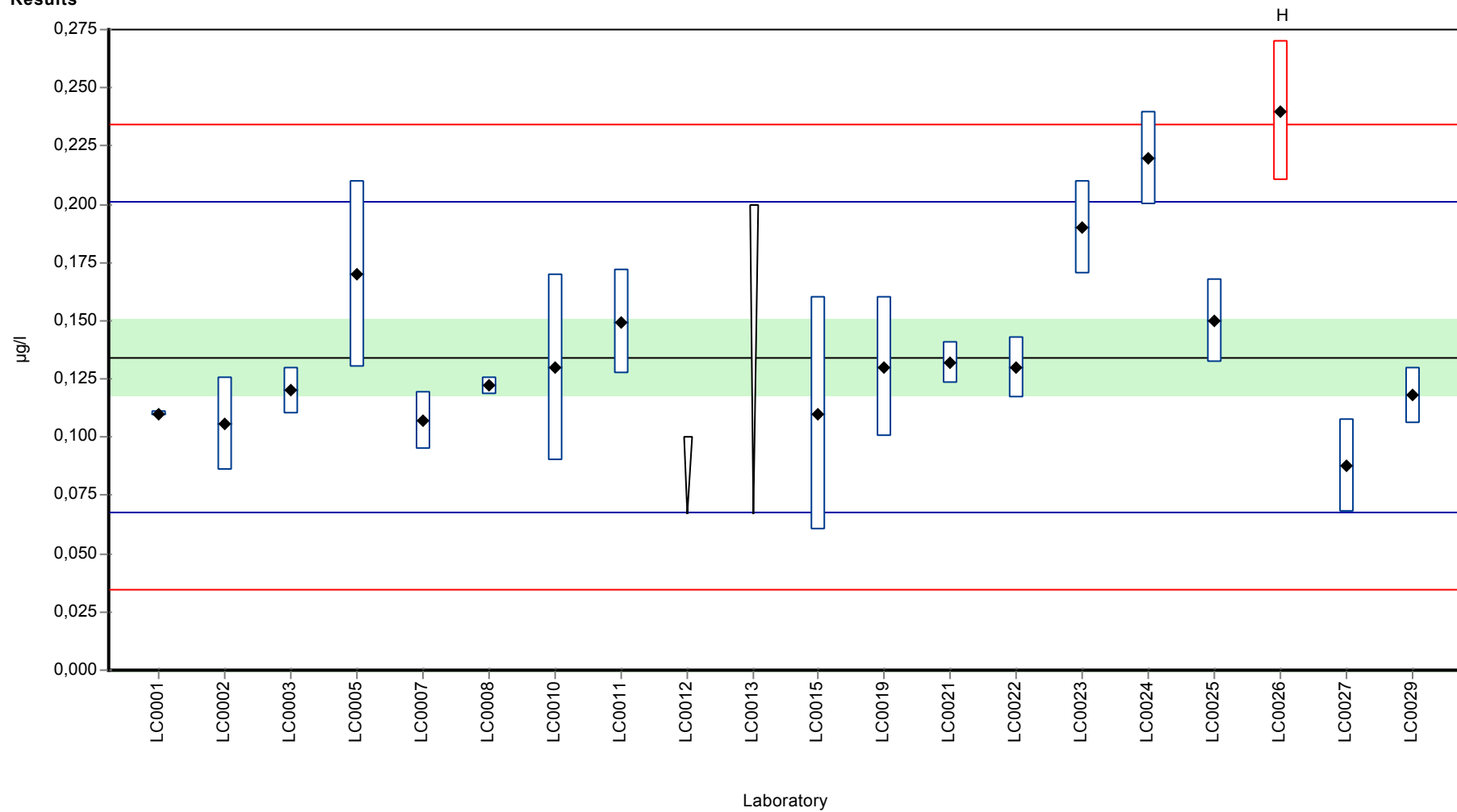
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,11	0,001	81,9	-0,73	
LC0002	0,106	0,02	78,9	-0,85	
LC0003	0,12	0,01	89,4	-0,43	
LC0004	-	-	-	-	
LC0005	0,17	0,04	127	1,07	
LC0006	-	-	-	-	
LC0007	0,107	0,0122	79,7	-0,82	
LC0008	0,122	0,004	90,9	-0,37	
LC0009	-	-	-	-	
LC0010	0,13	0,04	96,8	-0,13	
LC0011	0,1495	0,0224	111	0,46	
LC0012	< 0,1 (LOQ)	-	-	-	
LC0013	< 0,2 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	0,11	0,05	81,9	-0,73	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0,13	0,03	96,8	-0,13	
LC0020	-	-	-	-	
LC0021	0,132	0,009	98,3	-0,07	
LC0022	0,13	0,013	96,8	-0,13	
LC0023	0,19	0,02	142	1,67	
LC0024	0,22	0,02	164	2,57	
LC0025	0,15	0,018	112	0,47	
LC0026	0,24	0,03	179	3,17	H
LC0027	0,088	0,02	65,5	-1,39	
LC0028	-	-	-	-	
LC0029	0,118	0,012	87,9	-0,49	

#### Characteristics of parameter

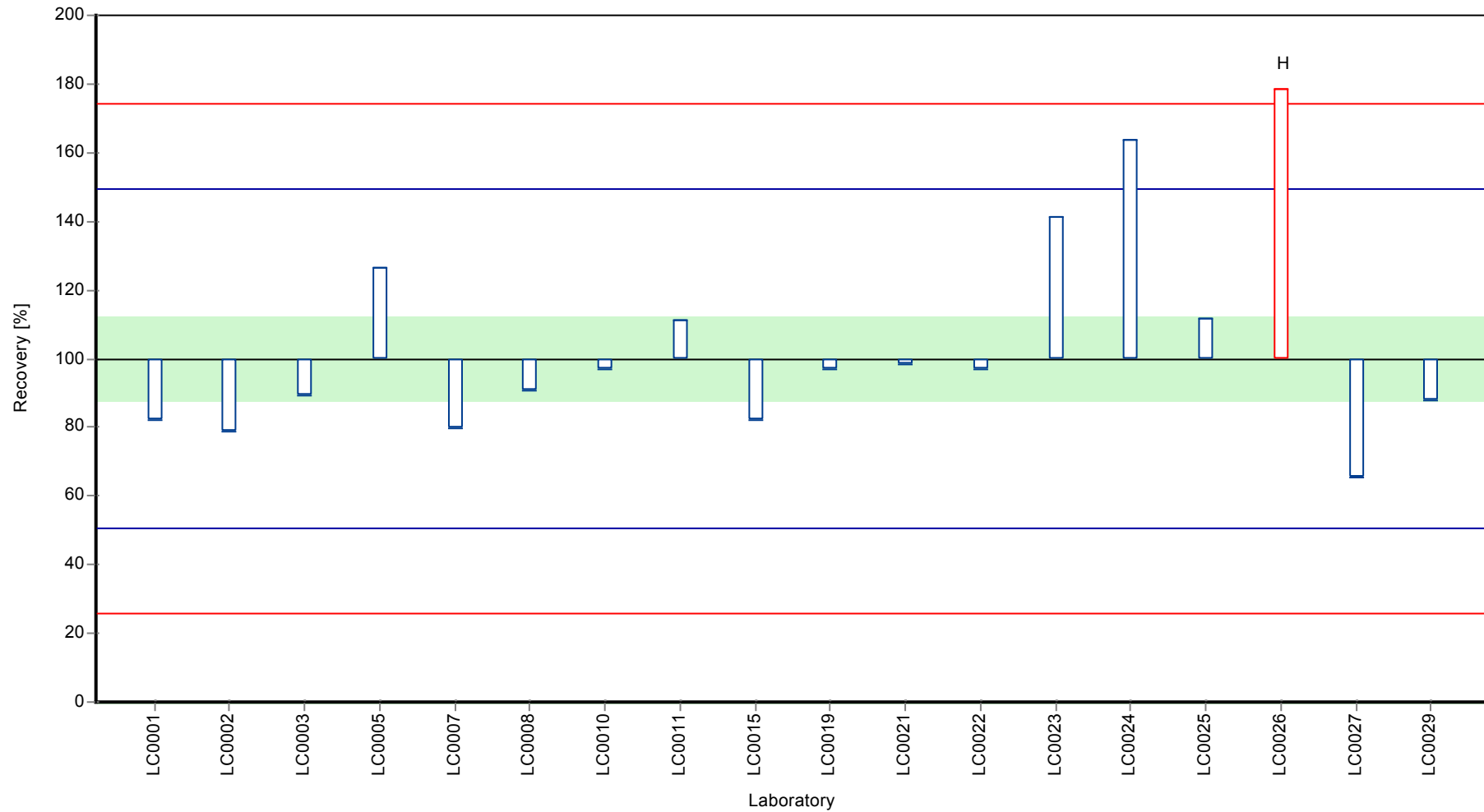
	all results	without outliers	Unit
Mean ± CI (99%)	0,14 ± 0,0289	0,134 ± 0,0242	µg/l
Minimum	0,088	0,088	µg/l
Maximum	0,24	0,22	µg/l
Standard deviation	0,0408	0,0333	µg/l
rel. Standard deviation	29,1	24,8	%
n	18	17	-

Graphical presentation of results

Results



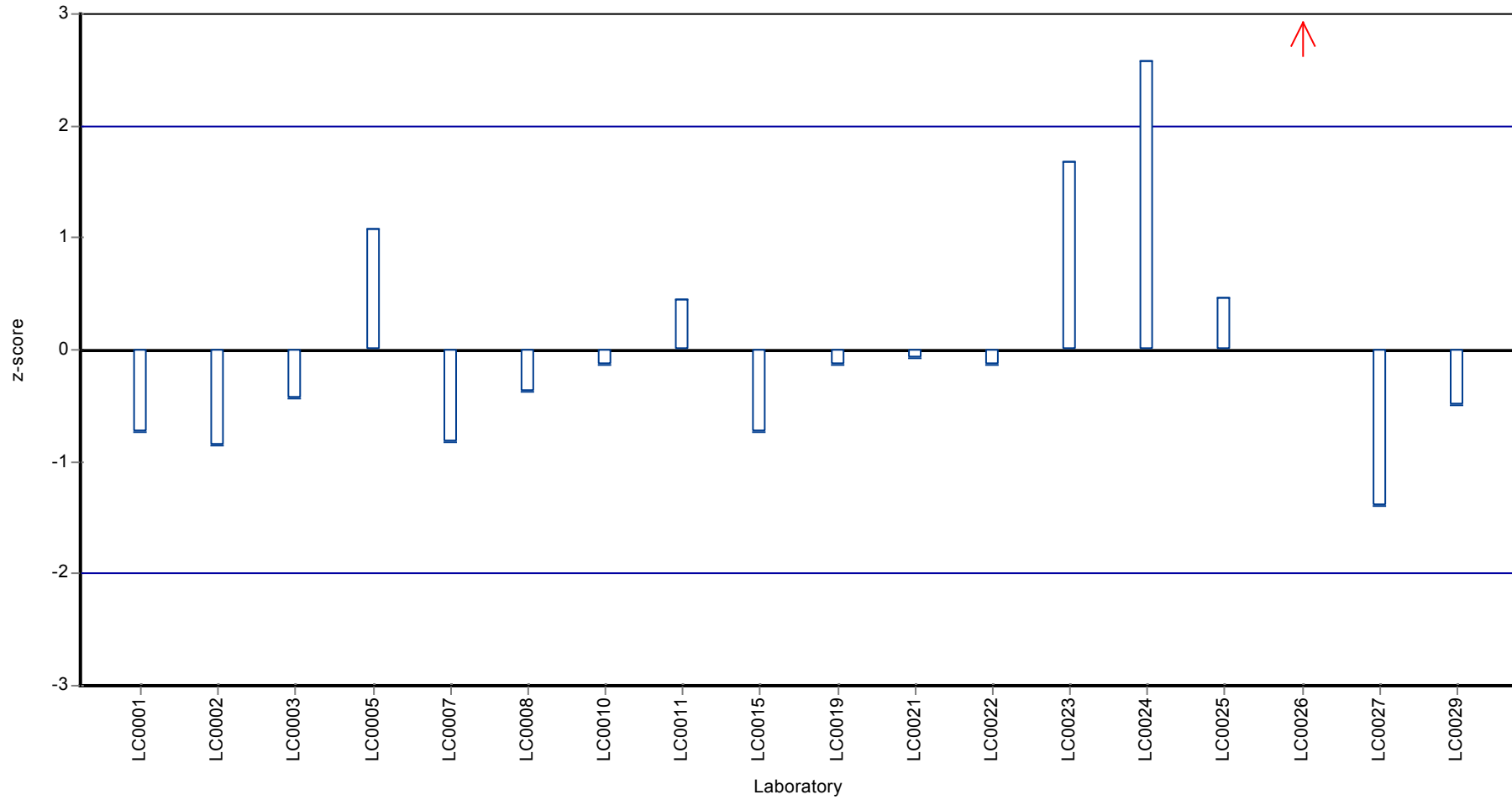
Recovery rate



Parameter oriented report Metals M130

Sample: M130B, Parameter: Mercury

Z-score





## Parameter oriented report

### M130 A

#### Manganese

Unit	µg/l
Mean ± CI (99%)	2,38 ± 0,115
Minimum - Maximum	2,04 - 2,69
Control test value ± U	< 5 (LOQ)

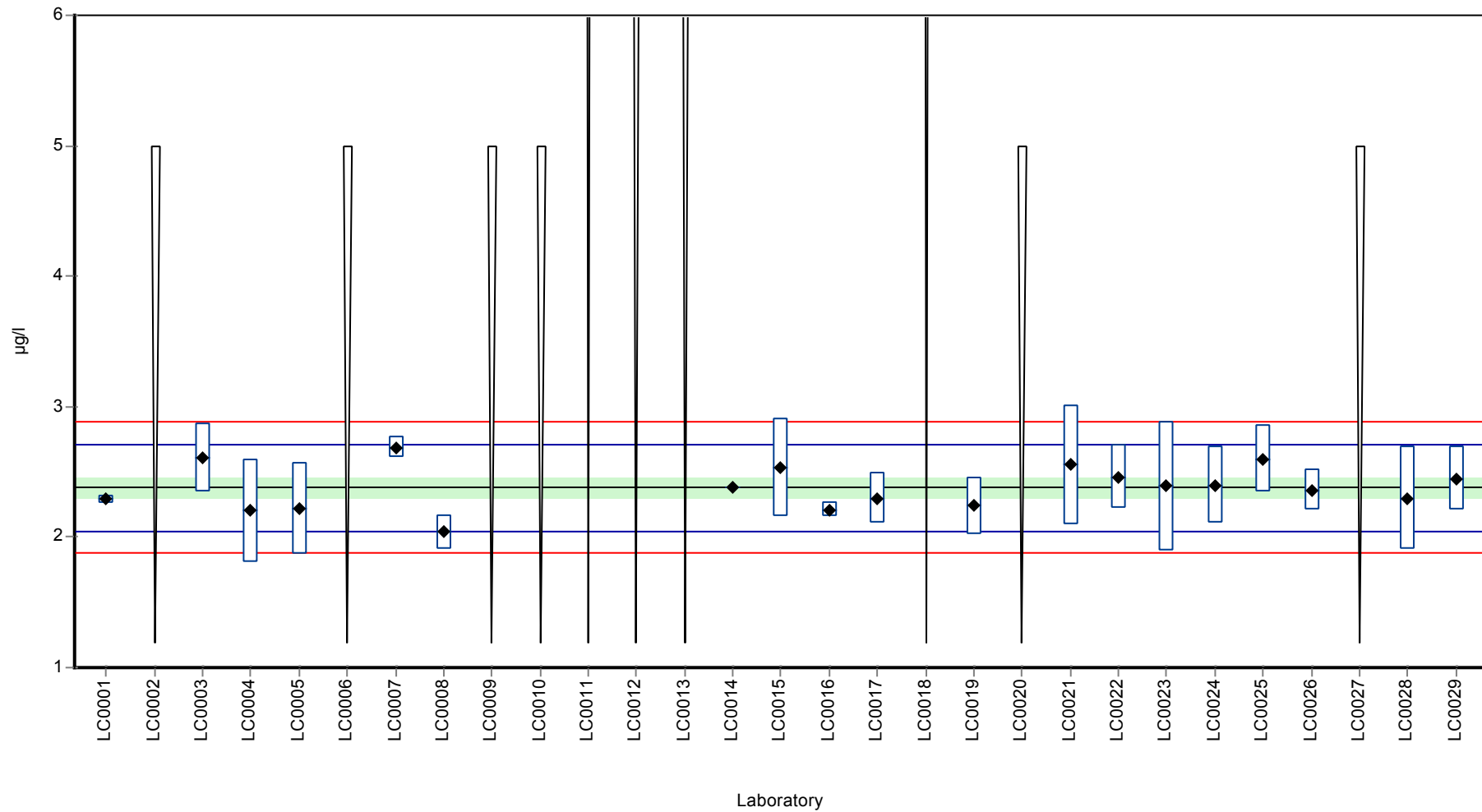
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2,29	0,032	96,2	-0,54	
LC0002	< 5 (LOQ)	-	-	-	
LC0003	2,61	0,26	110	1,37	
LC0004	2,2	0,4	92,4	-1,08	
LC0005	2,22	0,35	93,3	-0,96	
LC0006	< 5 (LOQ)	-	-	-	
LC0007	2,688	0,0806	113	1,84	
LC0008	2,04	0,13	85,7	-2,03	
LC0009	< 5 (LOQ)	-	-	-	
LC0010	< 5 (LOQ)	-	-	-	
LC0011	< 20 (LOQ)	-	-	-	
LC0012	< 10 (LOQ)	-	-	-	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	2,383	-	100	0,02	
LC0015	2,53	0,38	106	0,9	
LC0016	2,21	0,0567	92,8	-1,02	
LC0017	2,3	0,2	96,6	-0,48	
LC0018	< 20 (LOQ)	-	-	-	
LC0019	2,24	0,22	94,1	-0,84	
LC0020	< 5 (LOQ)	-	-	-	
LC0021	2,553	0,46	107	1,03	
LC0022	2,46	0,246	103	0,48	
LC0023	2,39	0,5	100	0,06	
LC0024	2,4	0,3	101	0,12	
LC0025	2,6	0,26	109	1,31	
LC0026	2,36	0,16	99,2	-0,12	
LC0027	< 5 (LOQ)	-	-	-	
LC0028	2,3	0,4	96,6	-0,48	
LC0029	2,45	0,25	103	0,42	

#### Characteristics of parameter

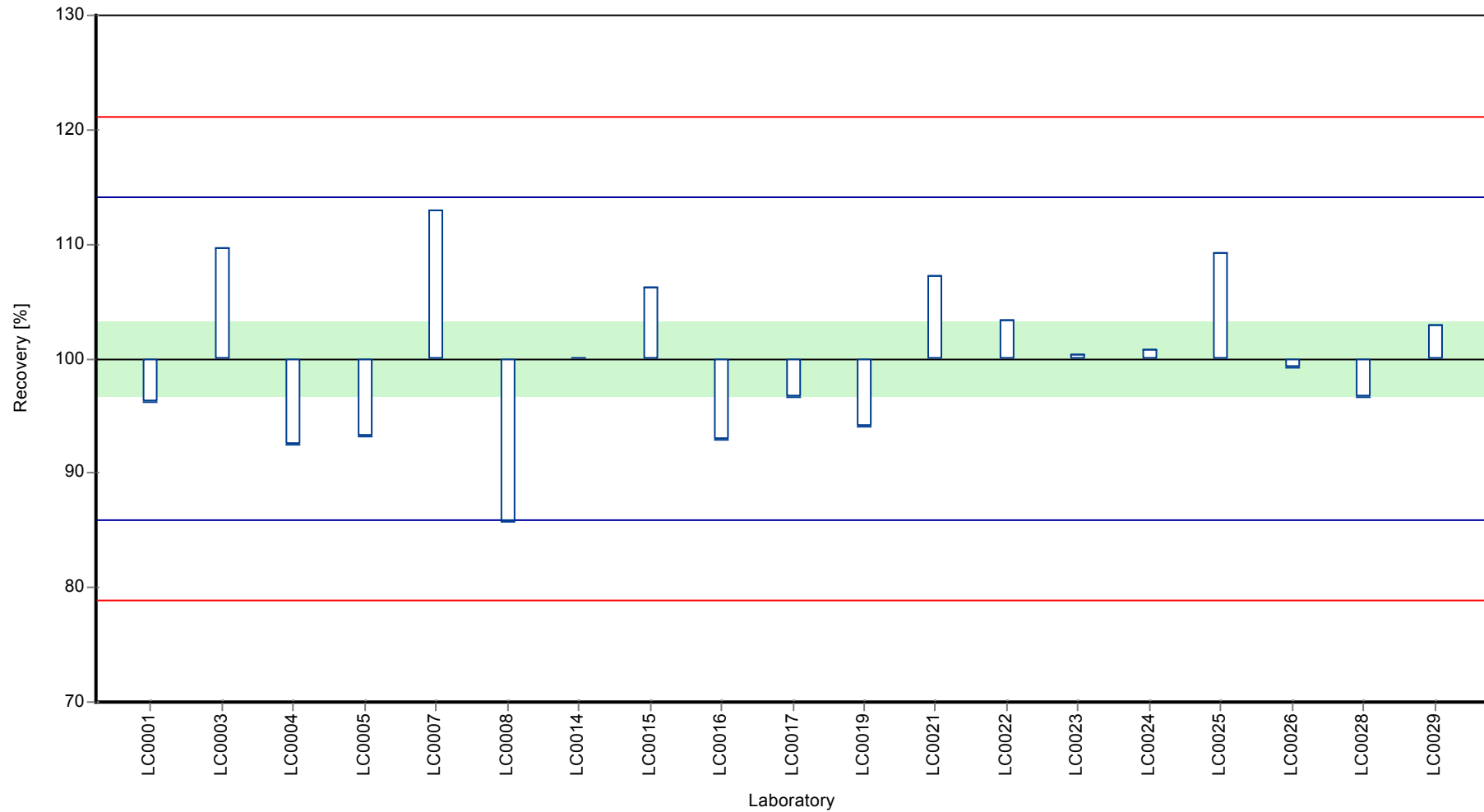
	all results	without outliers	Unit
Mean ± CI (99%)	2,38 ± 0,115	2,38 ± 0,115	µg/l
Minimum	2,04	2,04	µg/l
Maximum	2,69	2,69	µg/l
Standard deviation	0,167	0,167	µg/l
rel. Standard deviation	7,03	7,03	%
n	19	19	-

Graphical presentation of results

Results



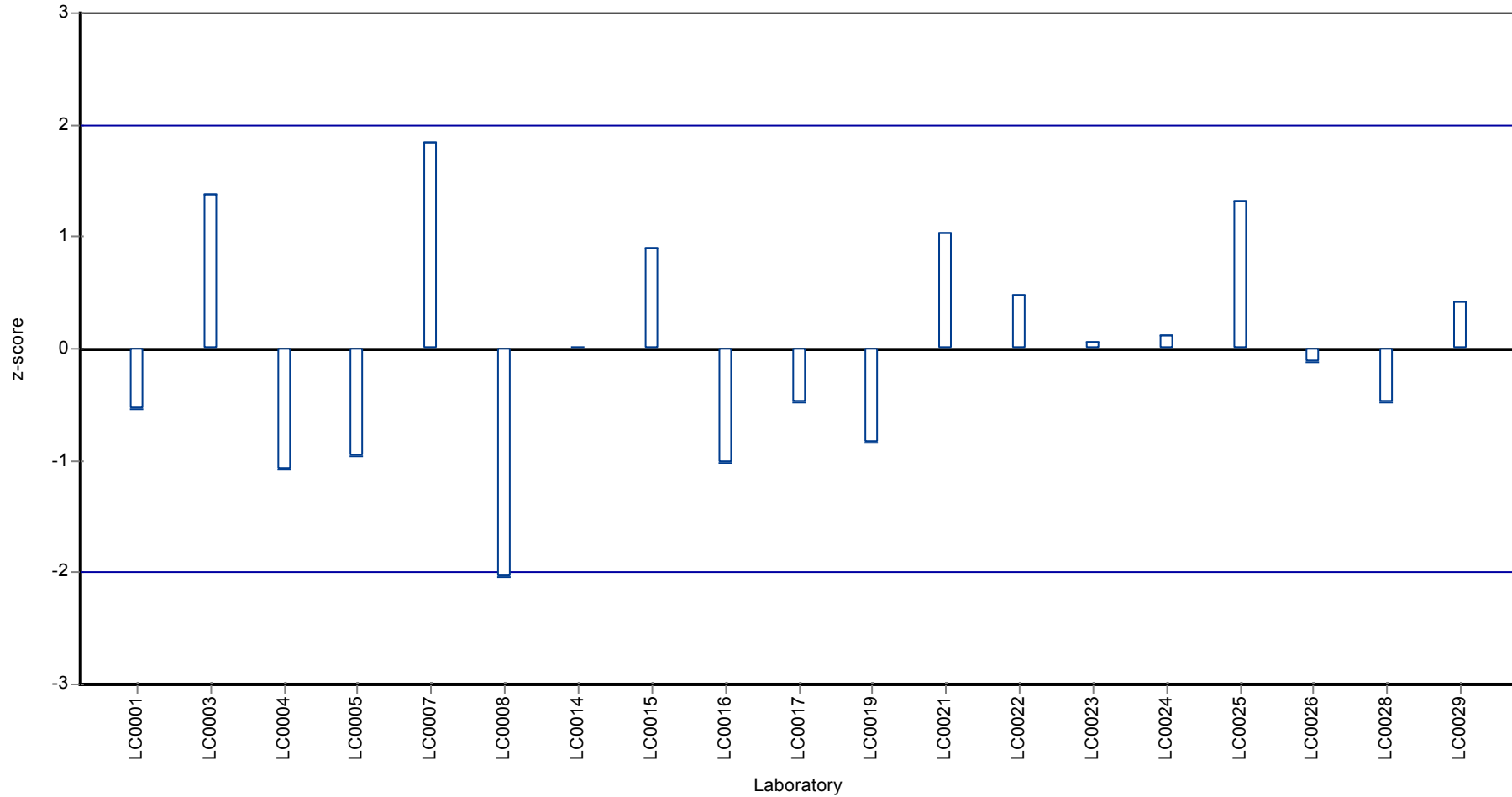
Recovery rate



Parameter oriented report Metals M130

Sample: M130A, Parameter: Manganese

Z-score



## Parameter oriented report

### M130 B

#### Manganese

Unit	µg/l
Mean ± CI (99%)	2,48 ± 0,111
Minimum - Maximum	2,23 - 2,78
Control test value ± U	< 5 (LOQ)

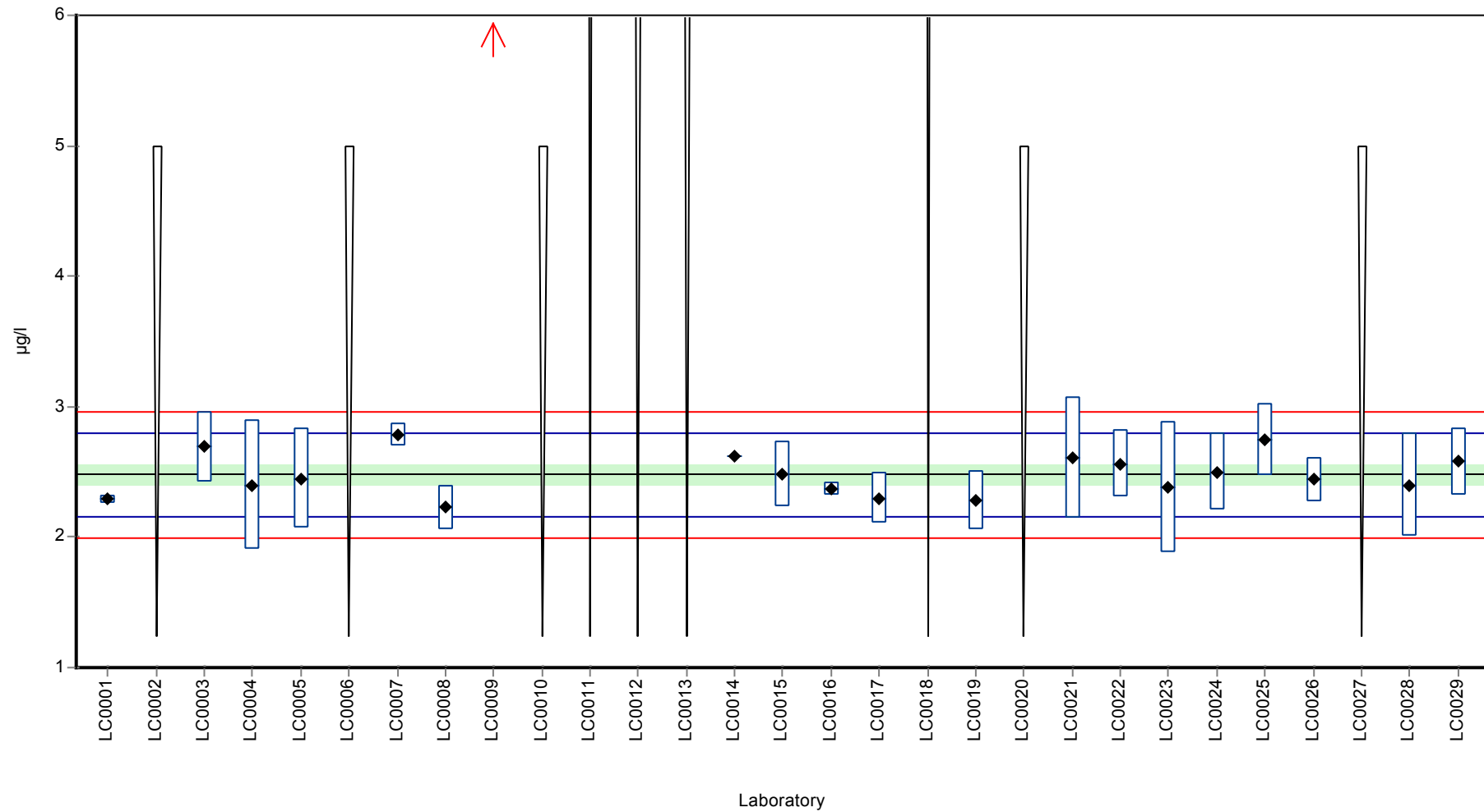
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2,29	0,031	92,4	-1,17	
LC0002	< 5 (LOQ)	-	-	-	
LC0003	2,69	0,27	108	1,3	
LC0004	2,4	0,5	96,8	-0,49	
LC0005	2,45	0,38	98,8	-0,18	
LC0006	< 5 (LOQ)	-	-	-	
LC0007	2,783	0,0835	112	1,88	
LC0008	2,23	0,17	89,9	-1,54	
LC0009	12,3	2	496	60,8	H
LC0010	< 5 (LOQ)	-	-	-	
LC0011	< 20 (LOQ)	-	-	-	
LC0012	< 10 (LOQ)	-	-	-	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	2,619	-	106	0,86	
LC0015	2,48	0,25	100	0,00	
LC0016	2,37	0,0462	95,6	-0,68	
LC0017	2,3	0,2	92,8	-1,11	
LC0018	< 20 (LOQ)	-	-	-	
LC0019	2,28	0,23	92	-1,23	
LC0020	< 5 (LOQ)	-	-	-	
LC0021	2,607	0,469	105	0,79	
LC0022	2,56	0,256	103	0,5	
LC0023	2,38	0,5	96	-0,62	
LC0024	2,5	0,3	101	0,13	
LC0025	2,75	0,275	111	1,68	
LC0026	2,44	0,17	98,4	-0,24	
LC0027	< 5 (LOQ)	-	-	-	
LC0028	2,4	0,4	96,8	-0,49	
LC0029	2,58	0,26	104	0,62	

#### Characteristics of parameter

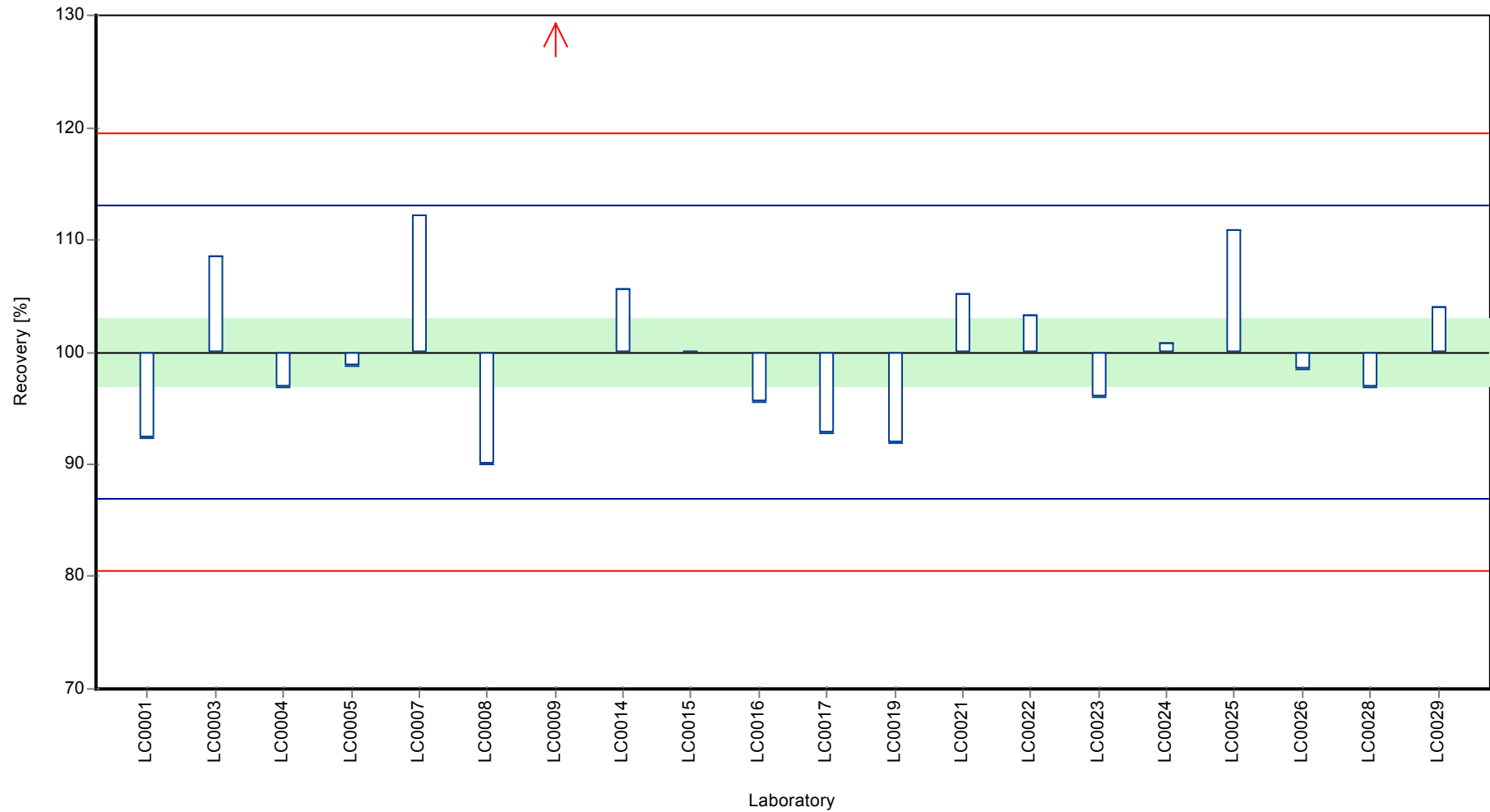
	all results	without outliers	Unit
Mean ± CI (99%)	2,97 ± 1,48	2,48 ± 0,111	µg/l
Minimum	2,23	2,23	µg/l
Maximum	12,3	2,78	µg/l
Standard deviation	2,2	0,162	µg/l
rel. Standard deviation	74,1	6,51	%
n	20	19	-

Graphical presentation of results

Results



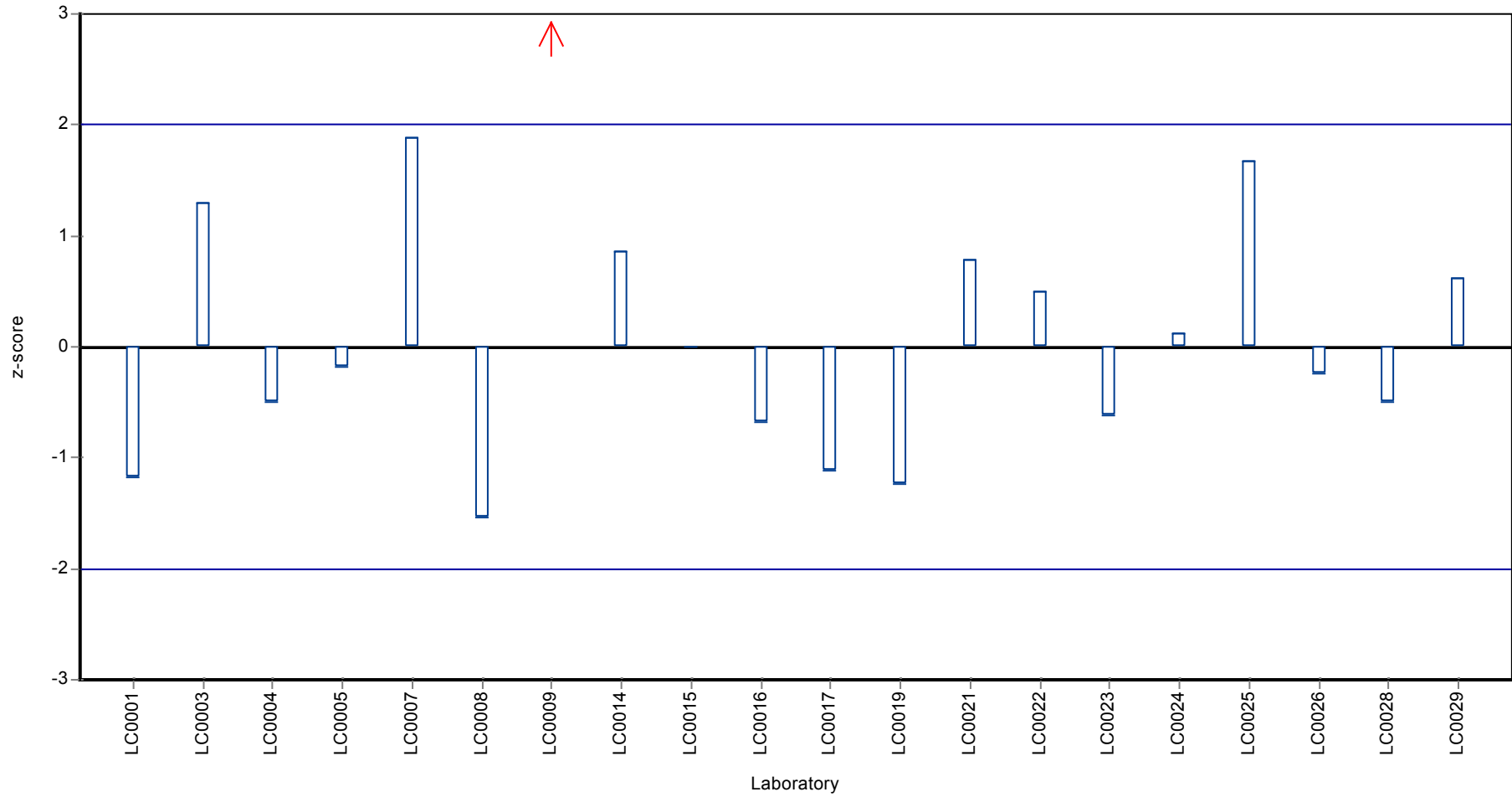
Recovery rate



Parameter oriented report Metals M130

Sample: M130B, Parameter: Manganese

Z-score





## Parameter oriented report

### M130 A

#### Nickel

Unit	µg/l
Mean ± CI (99%)	0,33 ± 0,0521
Minimum - Maximum	0,271 - 0,459
Control test value ± U	< 1 (LOQ)

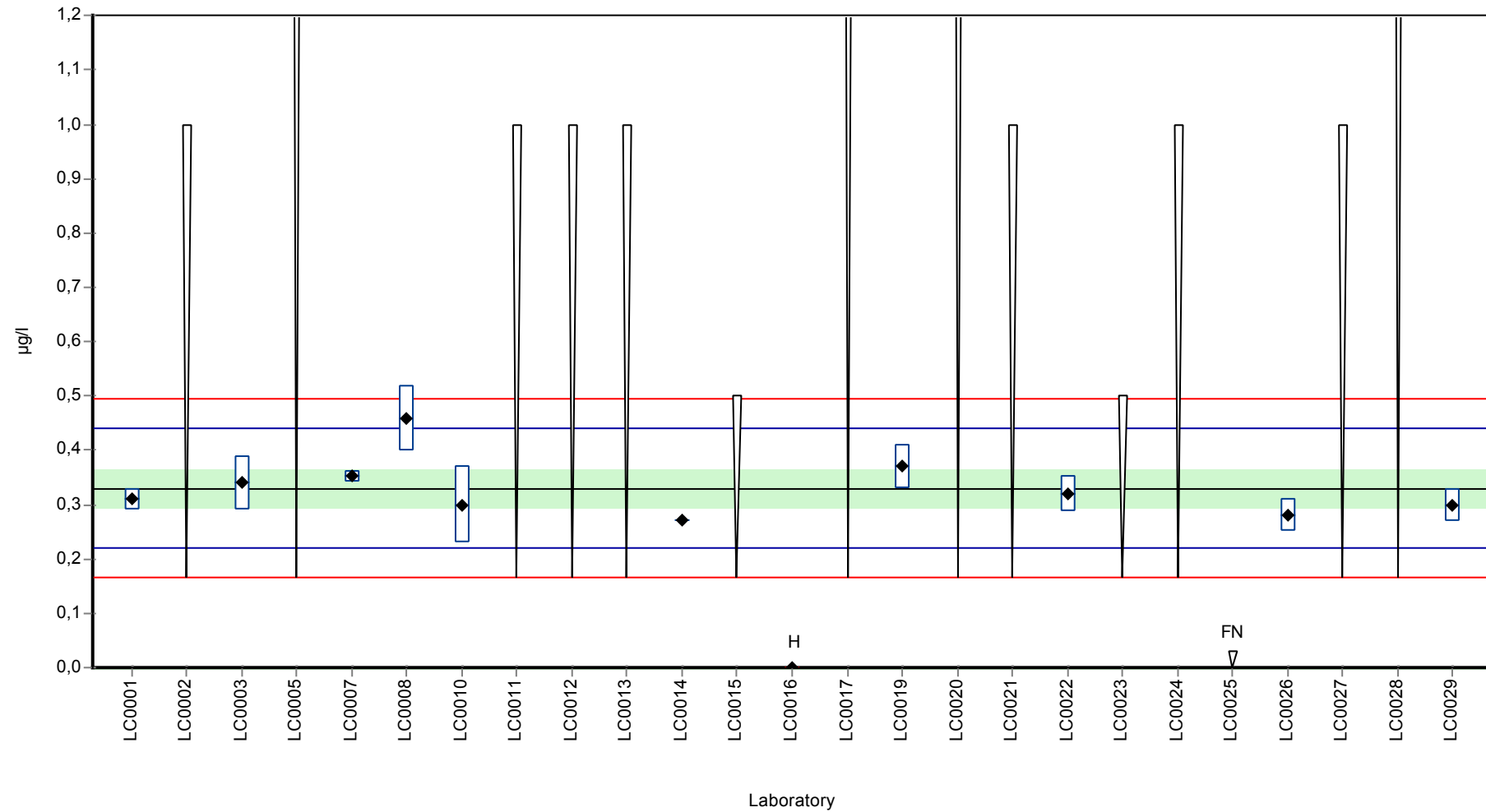
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,31	0,02	93,9	-0,37	
LC0002	< 1 (LOQ)	-	-	-	
LC0003	0,34	0,05	103	0,18	
LC0004	-	-	-	-	
LC0005	< 2 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	0,353	0,0106	107	0,41	
LC0008	0,459	0,061	139	2,34	
LC0009	-	-	-	-	
LC0010	0,3	0,07	90,8	-0,55	
LC0011	< 1 (LOQ)	-	-	-	
LC0012	< 1 (LOQ)	-	-	-	
LC0013	< 1 (LOQ)	-	-	-	
LC0014	0,271	-	82	-1,08	
LC0015	< 0,5 (LOQ)	-	-	-	
LC0016	0	-	-	-	H
LC0017	< 2 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	0,37	0,04	112	0,72	
LC0020	< 2 (LOQ)	-	-	-	
LC0021	< 1 (LOQ)	-	-	-	
LC0022	0,32	0,032	96,9	-0,19	
LC0023	< 0,5 (LOQ)	-	-	-	
LC0024	< 1 (LOQ)	-	-	-	
LC0025	<0,03 (LOD)	-	-	-	FN
LC0026	0,28	0,03	84,8	-0,92	
LC0027	< 1 (LOQ)	-	-	-	
LC0028	< 2 (LOQ)	-	-	-	
LC0029	0,3	0,03	90,8	-0,55	

#### Characteristics of parameter

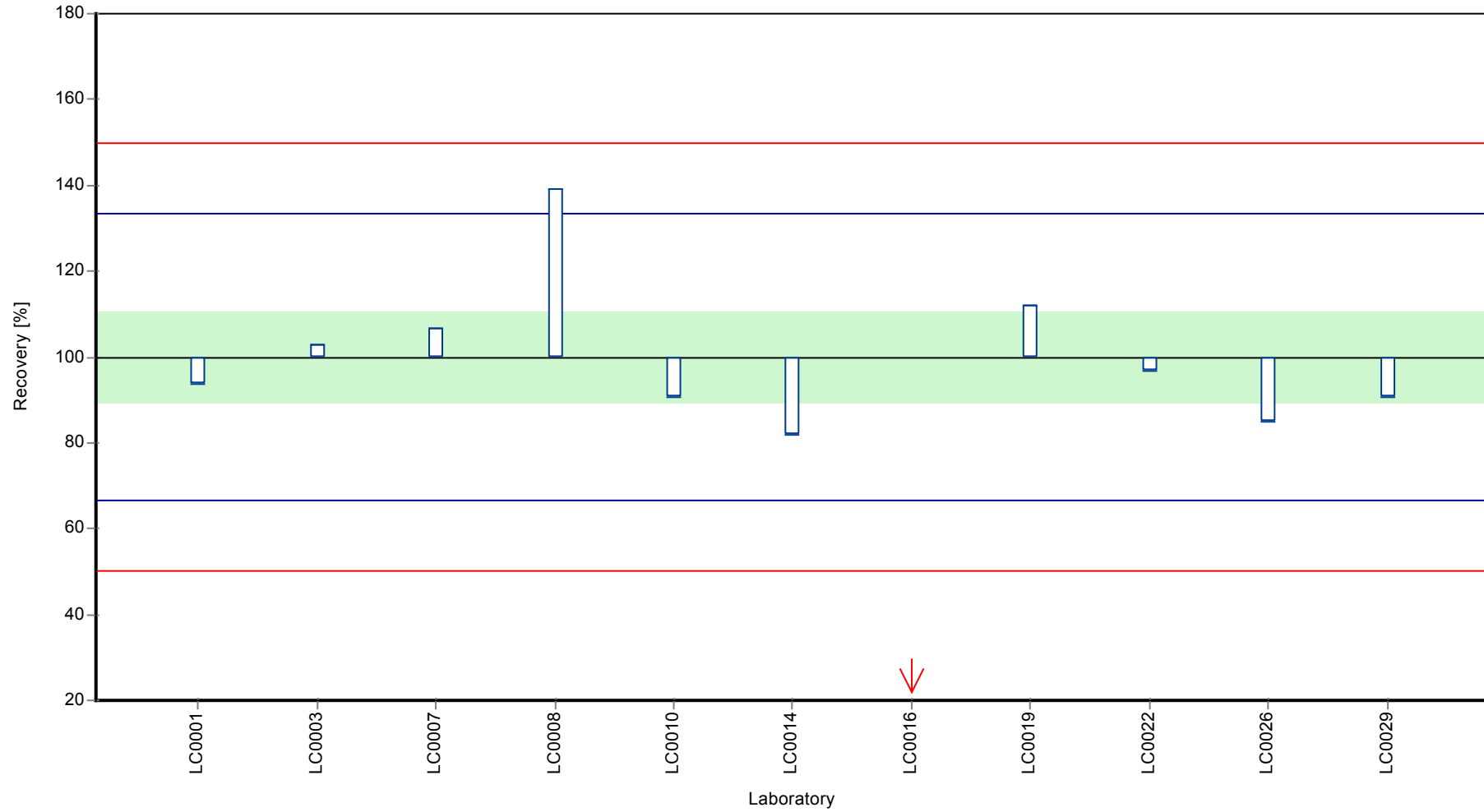
	all results	without outliers	Unit
Mean ± CI (99%)	0,300 ± 0,107	0,33 ± 0,0521	µg/l
Minimum	0	0,271	µg/l
Maximum	0,459	0,459	µg/l
Standard deviation	0,112	0,0549	µg/l
rel. Standard deviation	37,4	16,6	%
n	11	10	-

Graphical presentation of results

Results



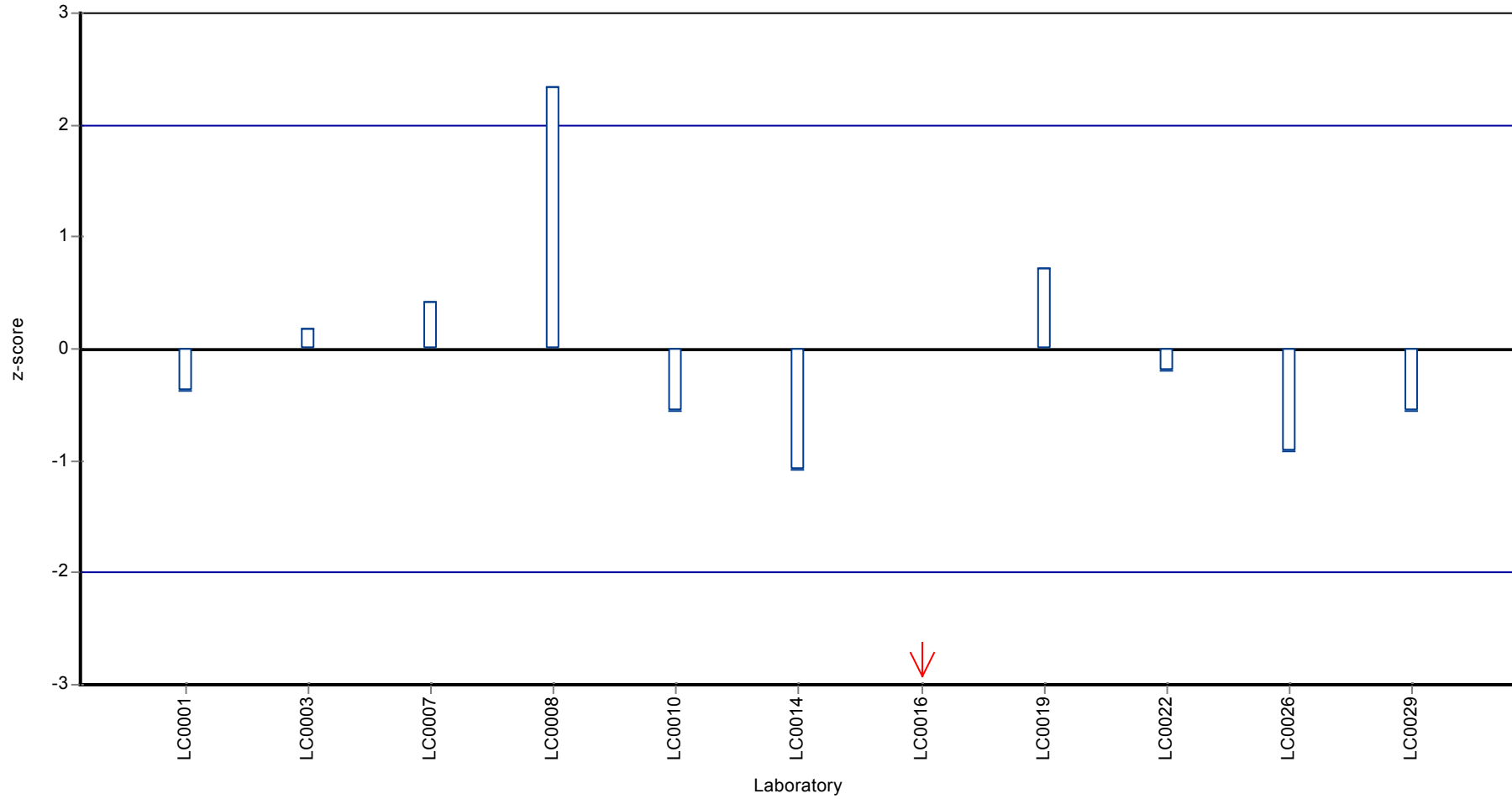
Recovery rate



Parameter oriented report Metals M130

Sample: M130A, Parameter: Nickel

Z-score



## Parameter oriented report

### M130 B

#### Nickel

Unit	µg/l
Mean ± CI (99%)	0,545 ± 0,0347
Minimum - Maximum	0,49 - 0,63
Control test value ± U	< 1 (LOQ)

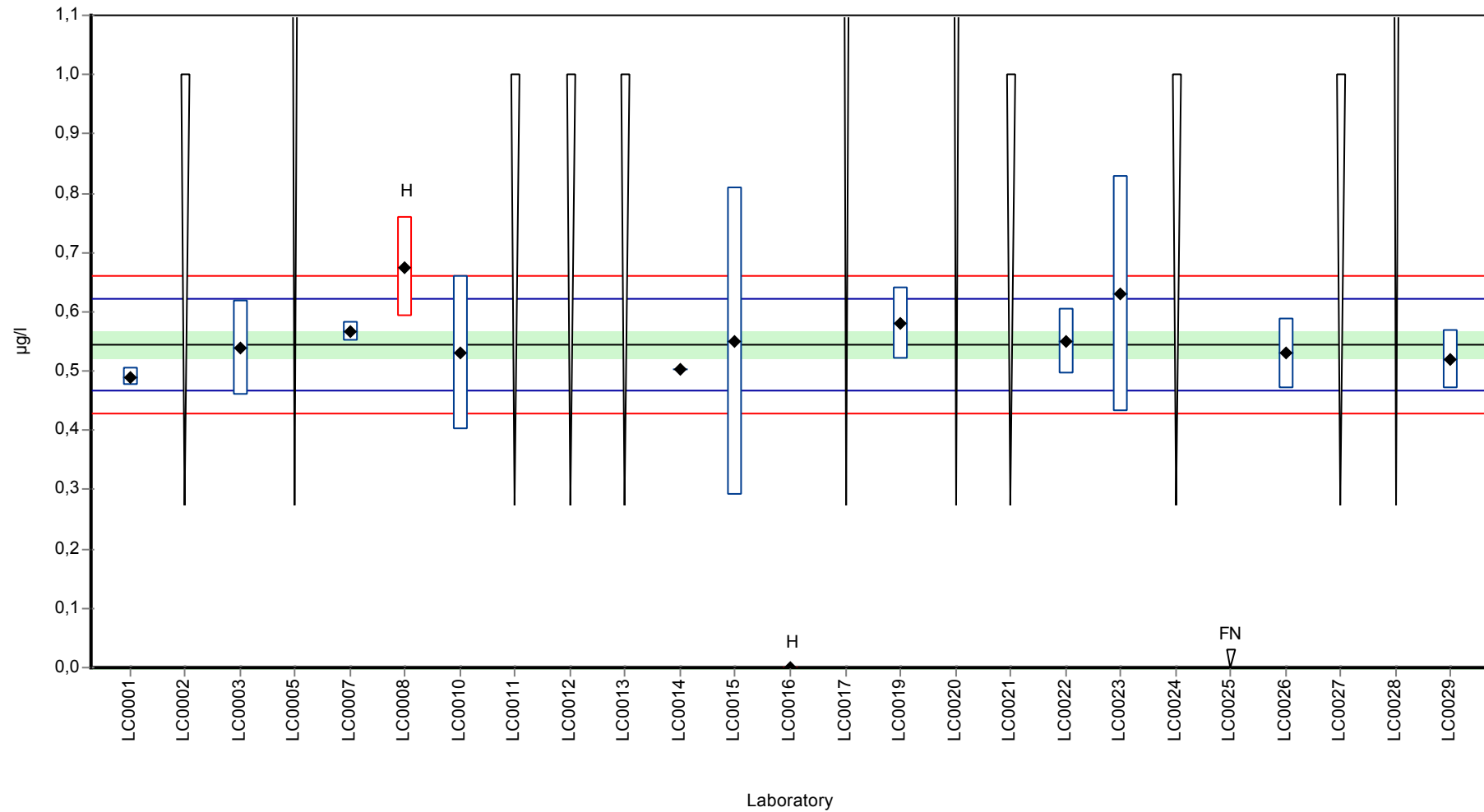
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,49	0,015	90	-1,42	
LC0002	< 1 (LOQ)	-	-	-	
LC0003	0,54	0,08	99,1	-0,12	
LC0004	-	-	-	-	
LC0005	< 2 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	0,566	0,017	104	0,56	
LC0008	0,675	0,084	124	3,39	H
LC0009	-	-	-	-	
LC0010	0,53	0,13	97,3	-0,38	
LC0011	< 1 (LOQ)	-	-	-	
LC0012	< 1 (LOQ)	-	-	-	
LC0013	< 1 (LOQ)	-	-	-	
LC0014	0,504	-	92,5	-1,06	
LC0015	0,55	0,26	101	0,14	
LC0016	0	-	-	-	H
LC0017	< 2 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	0,58	0,06	106	0,92	
LC0020	< 2 (LOQ)	-	-	-	
LC0021	< 1 (LOQ)	-	-	-	
LC0022	0,551	0,0551	101	0,17	
LC0023	0,63	0,2	116	2,22	
LC0024	< 1 (LOQ)	-	-	-	
LC0025	<0,03 (LOD)	-	-	-	FN
LC0026	0,53	0,06	97,3	-0,38	
LC0027	< 1 (LOQ)	-	-	-	
LC0028	< 2 (LOQ)	-	-	-	
LC0029	0,52	0,05	95,5	-0,64	

#### Characteristics of parameter

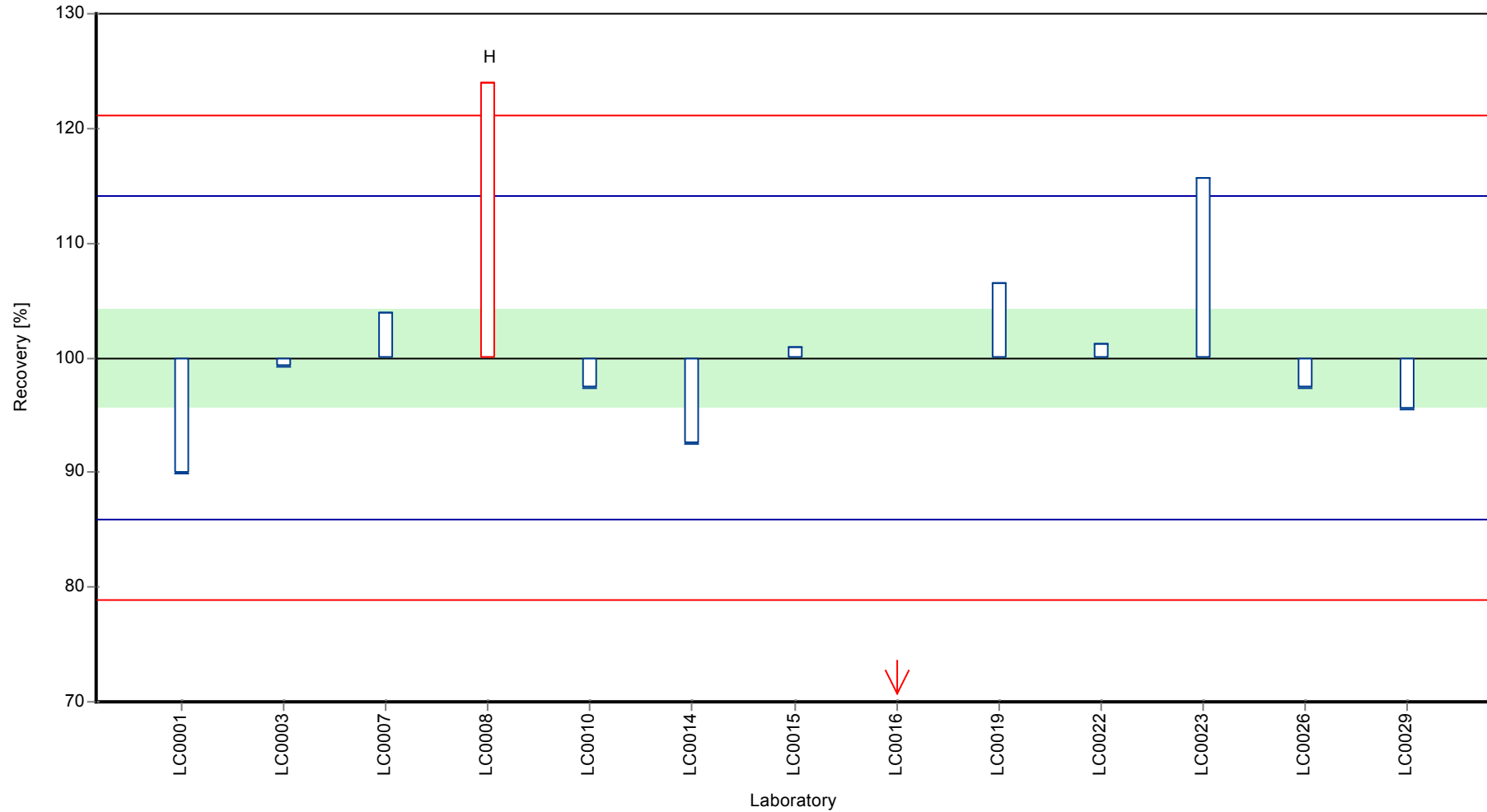
	all results	without outliers	Unit
Mean ± CI (99%)	0,513 ± 0,137	0,545 ± 0,0347	µg/l
Minimum	0	0,49	µg/l
Maximum	0,675	0,63	µg/l
Standard deviation	0,162	0,0384	µg/l
rel. Standard deviation	31,6	7,05	%
n	13	11	-

Graphical presentation of results

Results



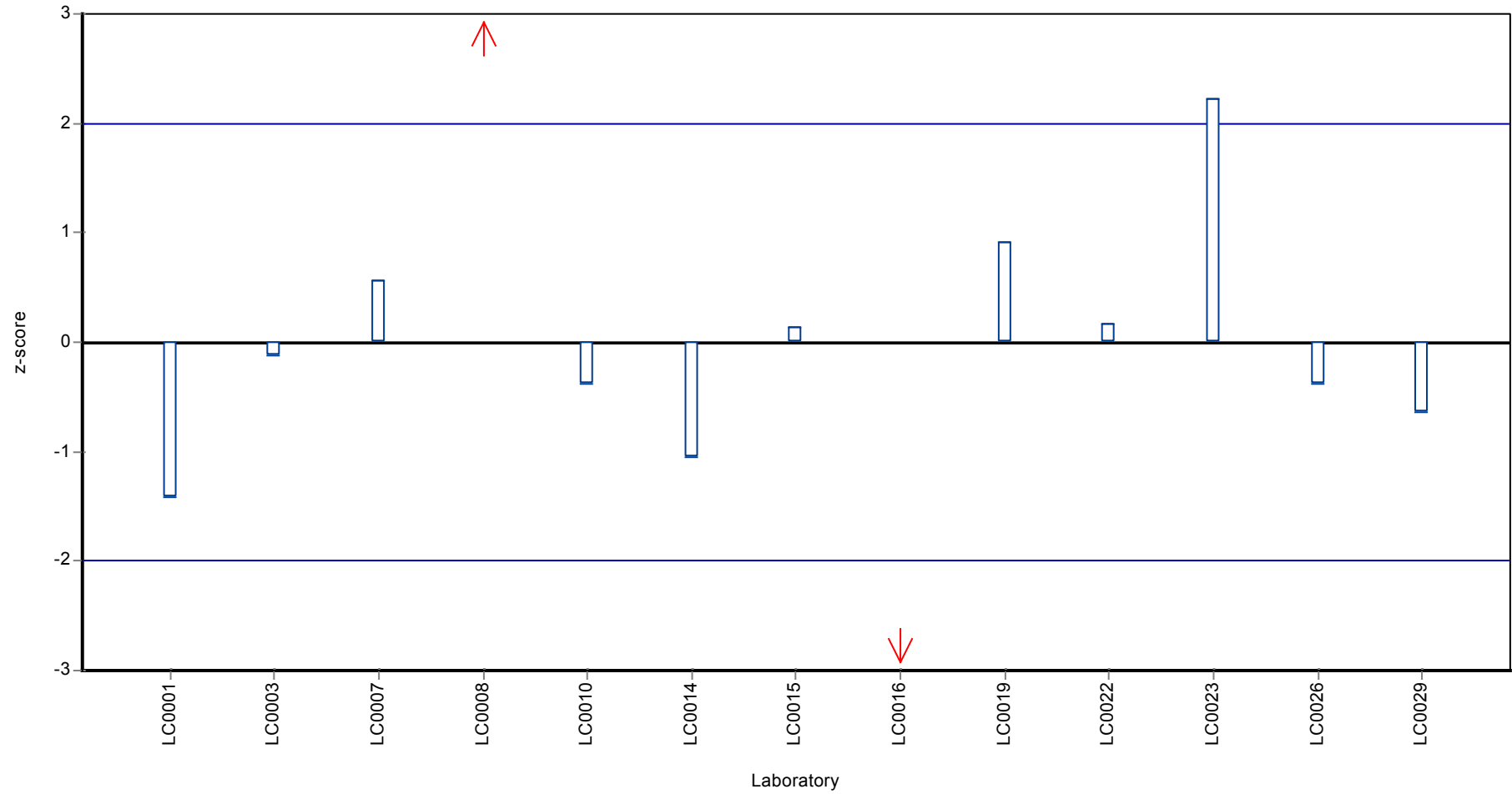
Recovery rate



Parameter oriented report Metals M130

Sample: M130B, Parameter: Nickel

Z-score





## Parameter oriented report

### M130 A

#### Lead

Unit	µg/l
Mean ± CI (99%)	0,108 ± 0,0108
Minimum - Maximum	0,0935 - 0,124
Control test value ± U	0,109 ± 0,019

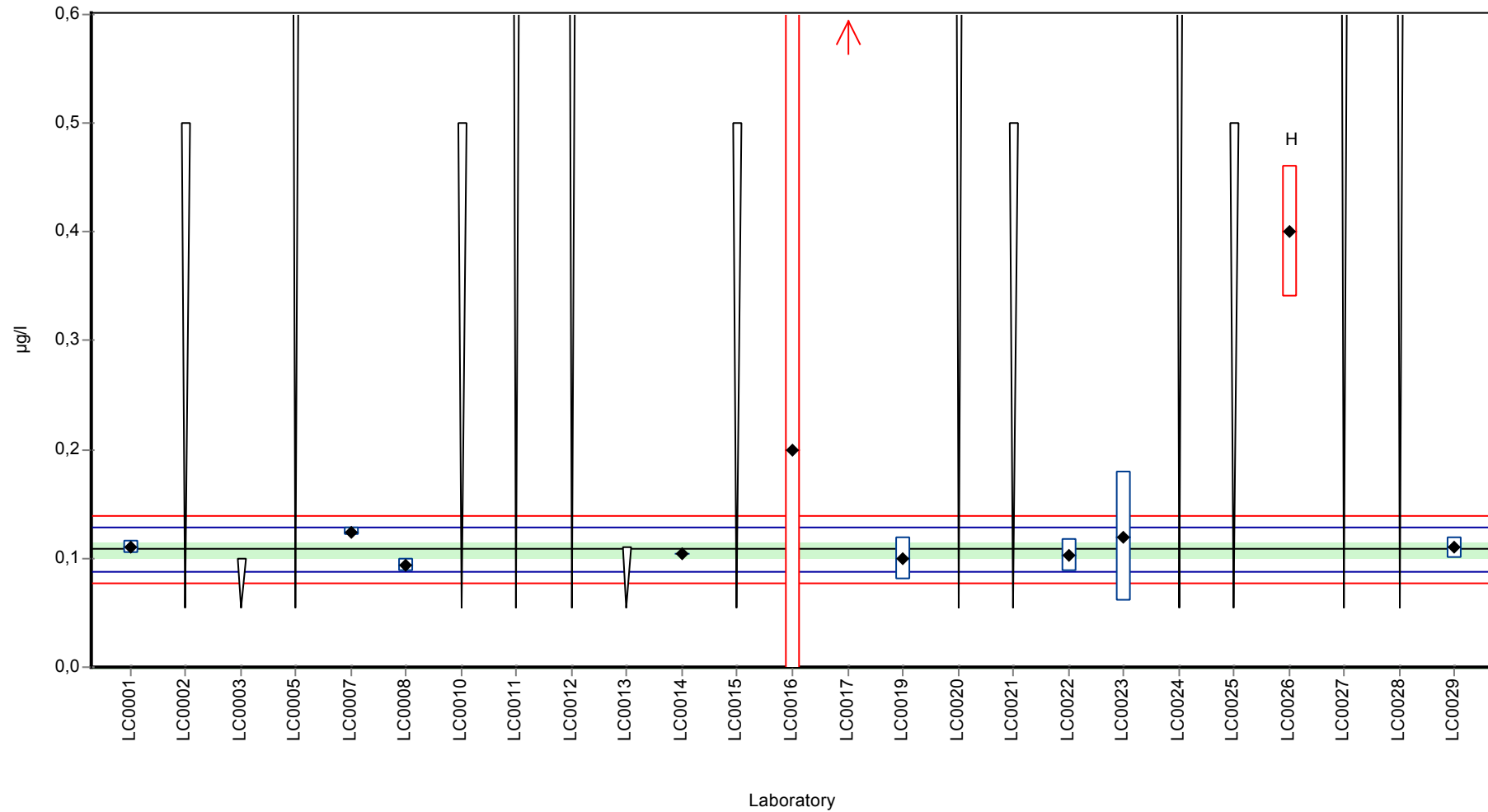
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,11	0,006	102	0,19	
LC0002	< 0,5 (LOQ)	-	-	-	
LC0003	< 0,1 (LOQ)	-	-	-	
LC0004	-	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	0,124	0,00372	115	1,57	
LC0008	0,0935	0,0062	86,5	-1,43	
LC0009	-	-	-	-	
LC0010	< 0,5 (LOQ)	-	-	-	
LC0011	< 1 (LOQ)	-	-	-	
LC0012	< 1 (LOQ)	-	-	-	
LC0013	<0,11 (LOD)	-	-	-	
LC0014	0,104	-	96,2	-0,4	
LC0015	< 0,5 (LOQ)	-	-	-	
LC0016	0,2	3,1797	185	9,05	H
LC0017	58,9	3,9	54500	5780	H
LC0018	-	-	-	-	
LC0019	0,1	0,02	92,5	-0,79	
LC0020	< 1 (LOQ)	-	-	-	
LC0021	< 0,5 (LOQ)	-	-	-	
LC0022	0,103	0,015	95,3	-0,5	
LC0023	0,12	0,06	111	1,17	
LC0024	< 1 (LOQ)	-	-	-	
LC0025	< 0,5 (LOQ)	-	-	-	
LC0026	0,4	0,06	370	28,7	H
LC0027	< 1 (LOQ)	-	-	-	
LC0028	< 1 (LOQ)	-	-	-	
LC0029	0,11	0,01	102	0,19	

#### Characteristics of parameter

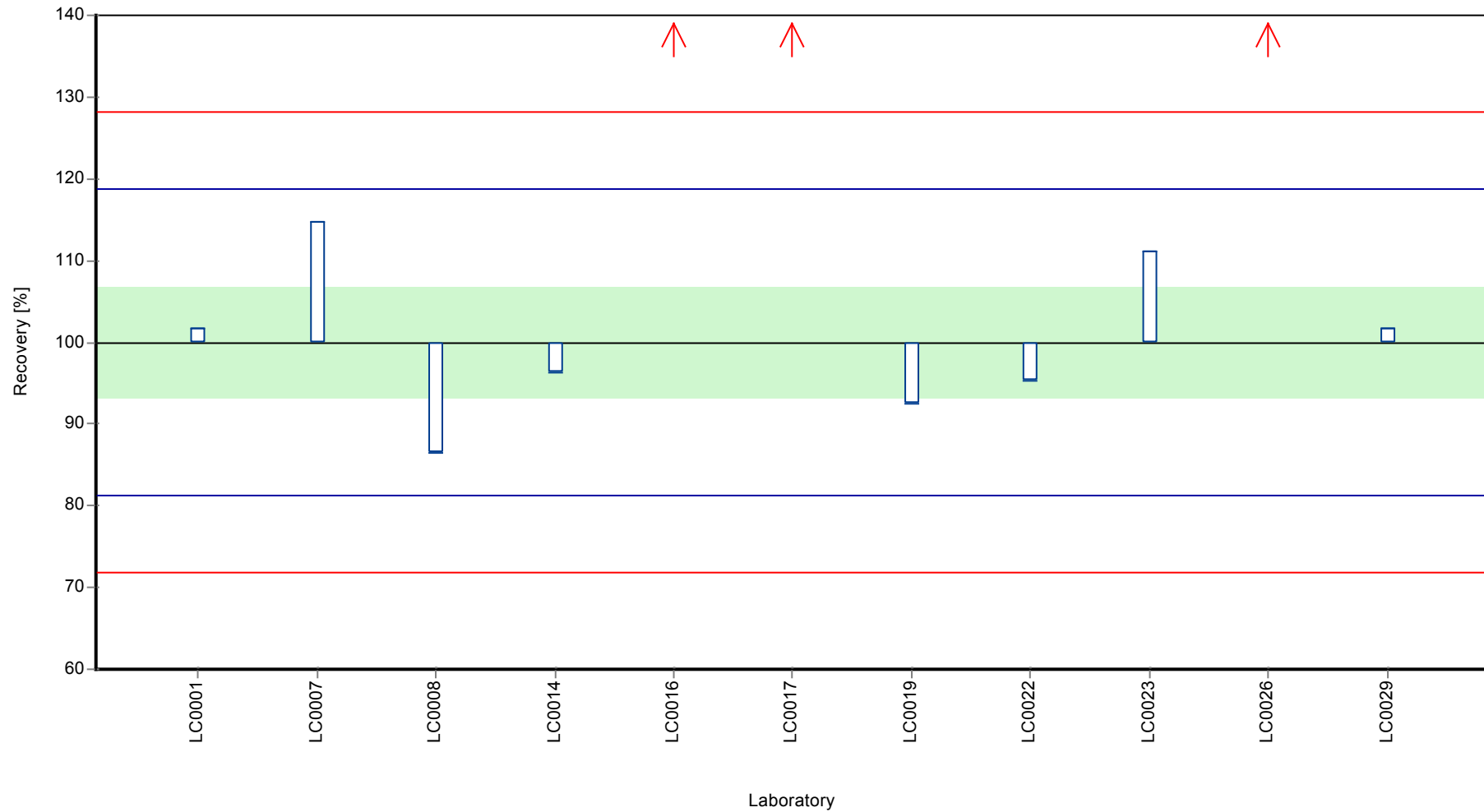
	all results	without outliers	Unit
Mean ± CI (99%)	5,49 ± 16	0,108 ± 0,0108	µg/l
Minimum	0,0935	0,0935	µg/l
Maximum	58,9	0,124	µg/l
Standard deviation	17,7	0,0102	µg/l
rel. Standard deviation	323	9,41	%
n	11	8	-

Graphical presentation of results

Results



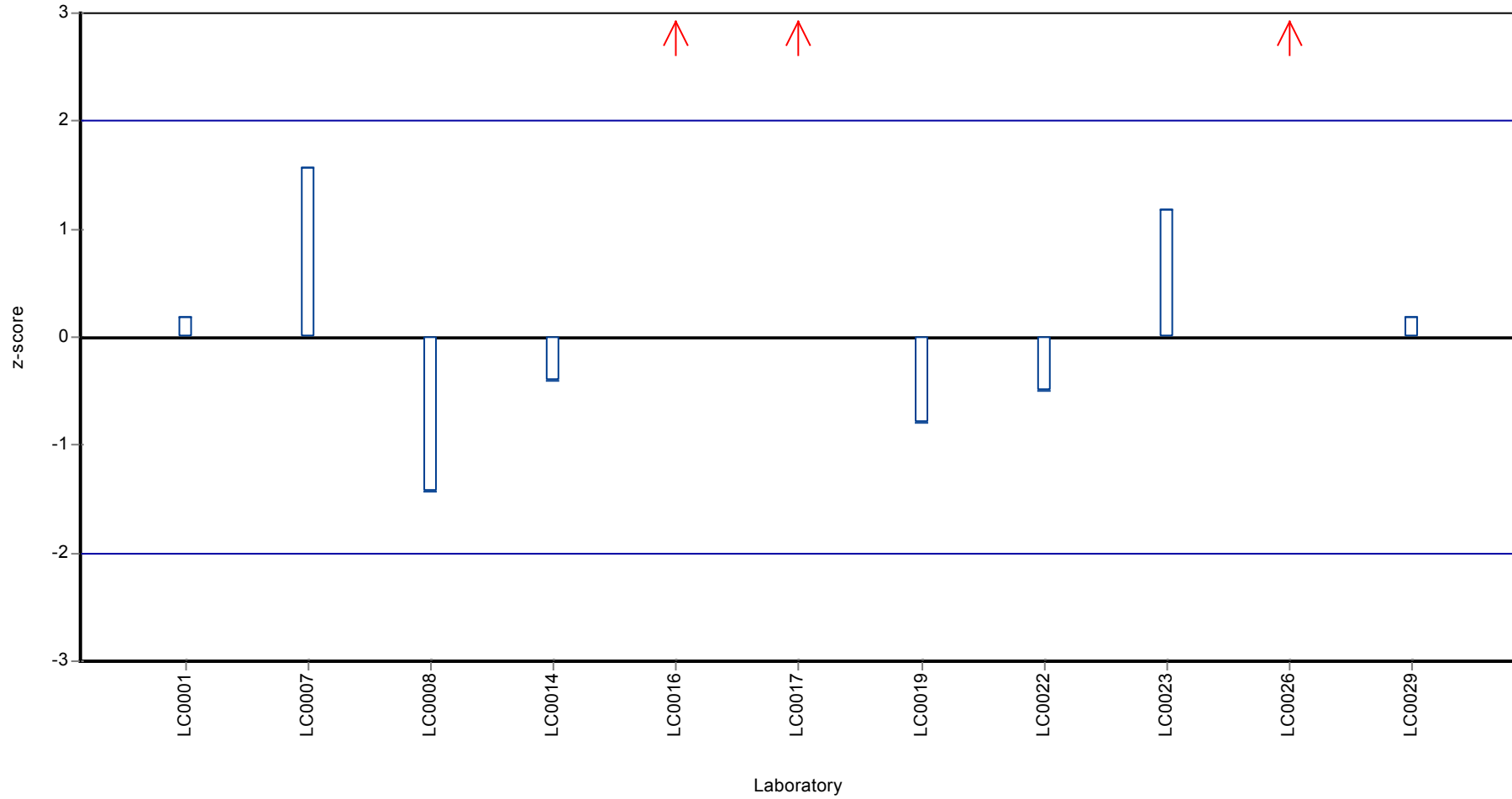
Recovery rate



Parameter oriented report Metals M130

Sample: M130A, Parameter: Lead

Z-score



## Parameter oriented report

### M130 B

#### Lead

Unit	µg/l
Mean ± CI (99%)	0,123 ± 0,0443
Minimum - Maximum	0,091 - 0,21
Control test value ± U	0,103 ± 0,019

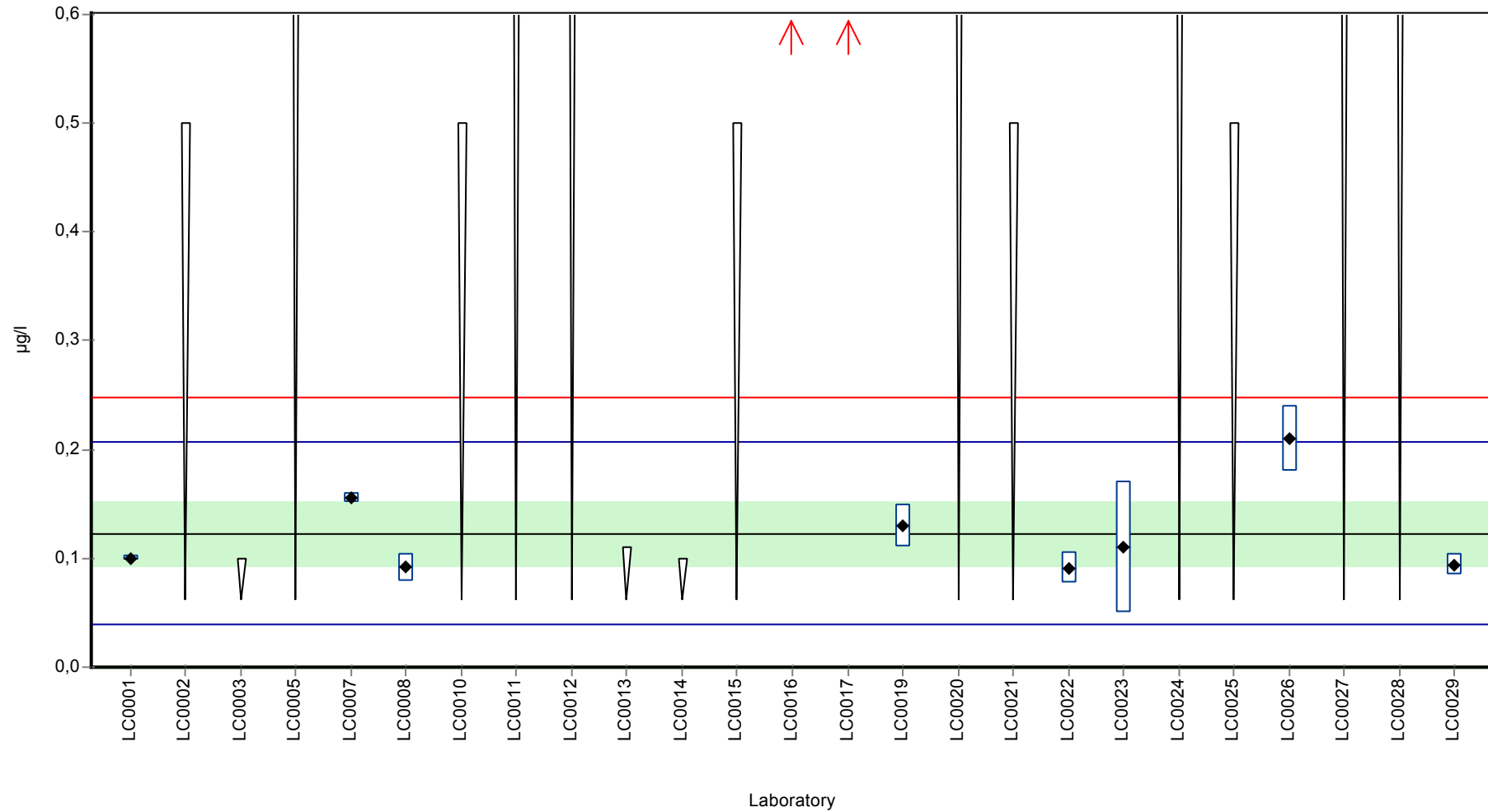
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,1	0,002	81,5	-0,54	
LC0002	< 0,5 (LOQ)	-	-	-	
LC0003	< 0,1 (LOQ)	-	-	-	
LC0004	-	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	0,155	0,00465	126	0,77	
LC0008	0,0917	0,0128	74,7	-0,74	
LC0009	-	-	-	-	
LC0010	< 0,5 (LOQ)	-	-	-	
LC0011	< 1 (LOQ)	-	-	-	
LC0012	< 1 (LOQ)	-	-	-	
LC0013	<0,11 (LOD)	-	-	-	
LC0014	< 0,1 (LOQ)	-	-	-	
LC0015	< 0,5 (LOQ)	-	-	-	
LC0016	0,82	1,3783	668	16,7	H
LC0017	42,1	2,8	34300	1010	H
LC0018	-	-	-	-	
LC0019	0,13	0,02	106	0,17	
LC0020	< 1 (LOQ)	-	-	-	
LC0021	< 0,5 (LOQ)	-	-	-	
LC0022	0,091	0,014	74,2	-0,76	
LC0023	0,11	0,06	89,6	-0,3	
LC0024	< 1 (LOQ)	-	-	-	
LC0025	< 0,5 (LOQ)	-	-	-	
LC0026	0,21	0,03	171	2,09	
LC0027	< 1 (LOQ)	-	-	-	
LC0028	< 1 (LOQ)	-	-	-	
LC0029	0,094	0,01	76,6	-0,69	

#### Characteristics of parameter

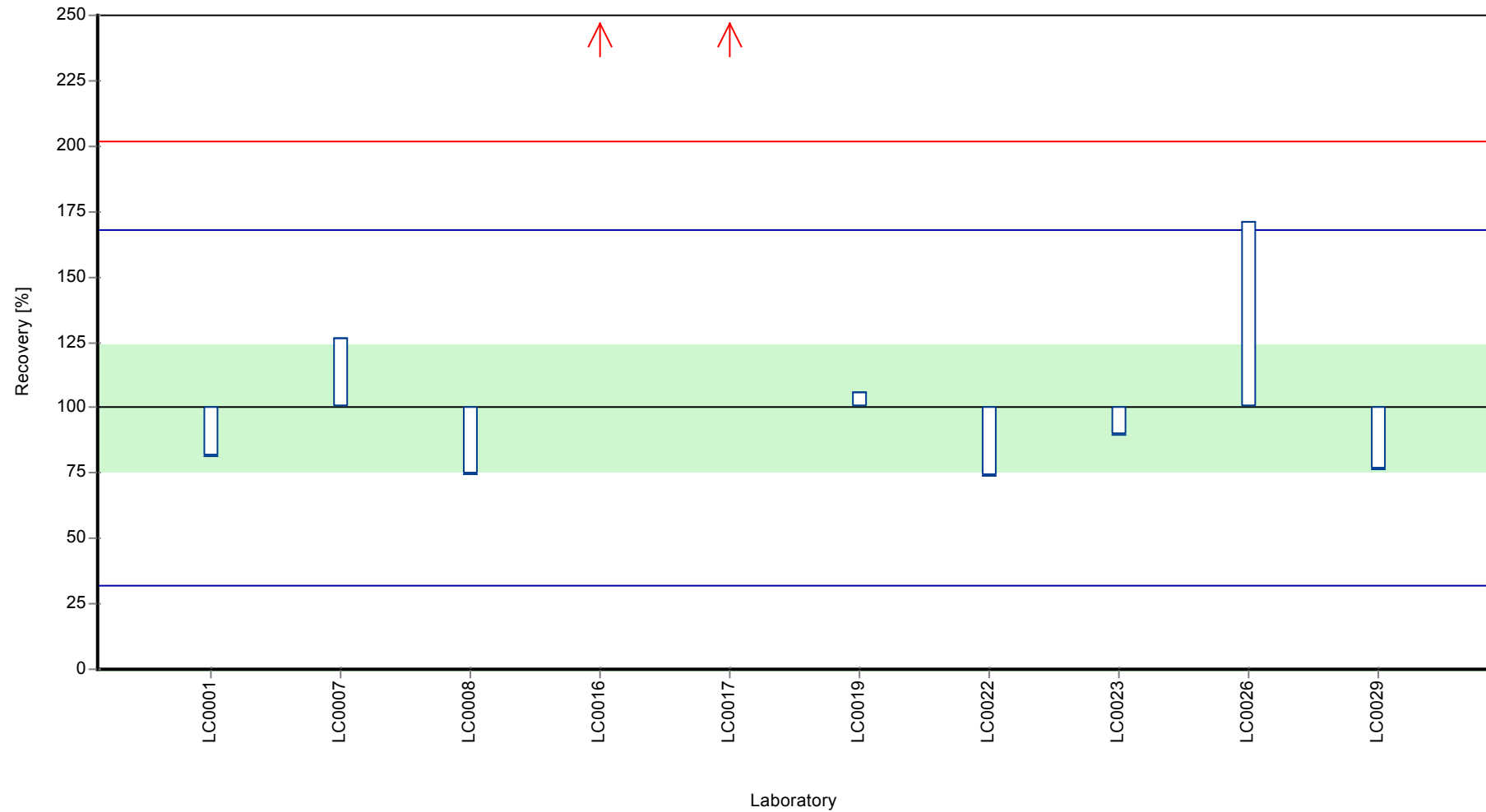
	all results	without outliers	Unit
Mean ± CI (99%)	4,39 ± 12,6	0,123 ± 0,0443	µg/l
Minimum	0,091	0,091	µg/l
Maximum	42,1	0,21	µg/l
Standard deviation	13,3	0,0417	µg/l
rel. Standard deviation	302	34	%
n	10	8	-

Graphical presentation of results

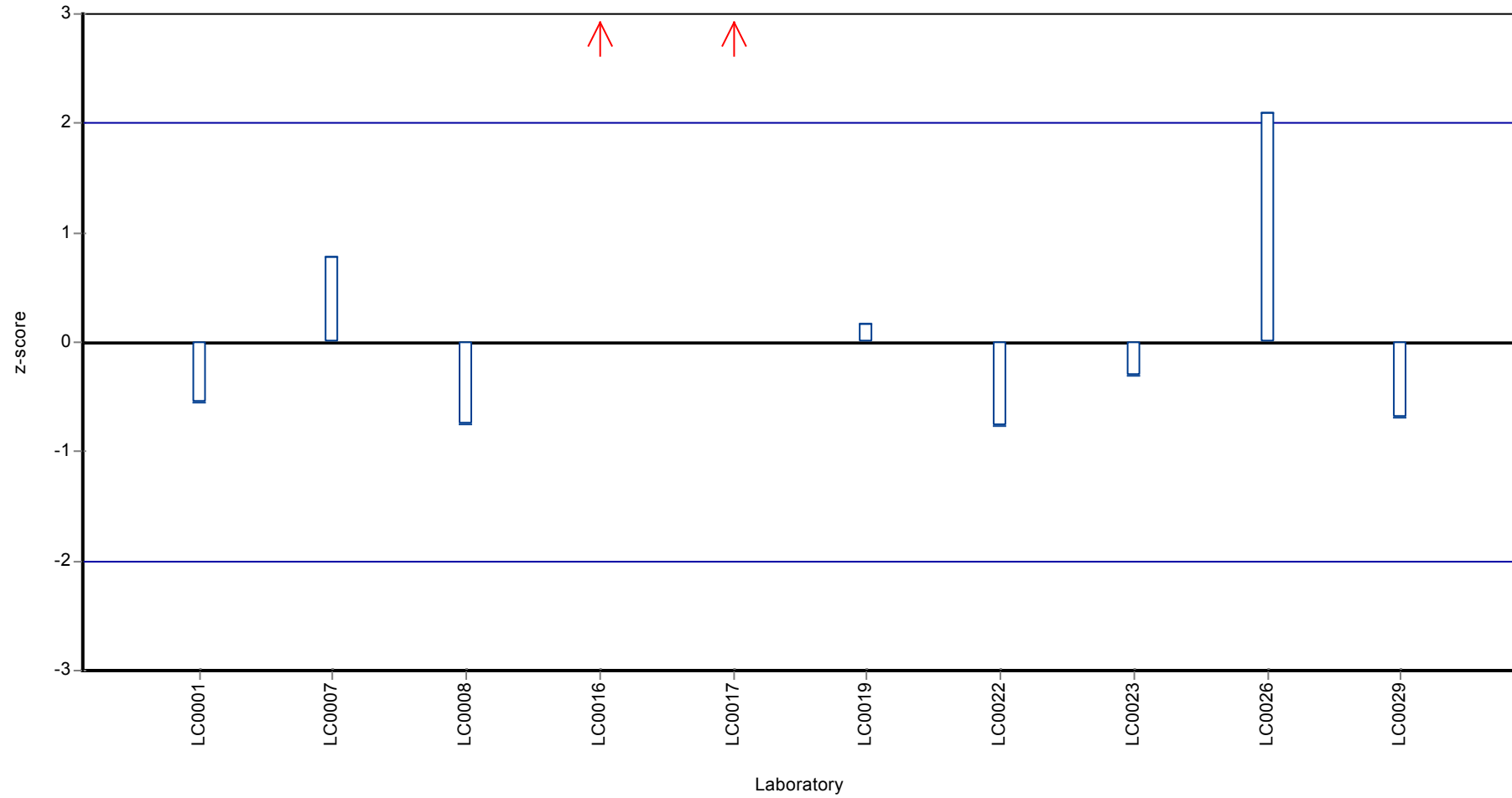
Results



Recovery rate



Z-score





## Parameter oriented report

### M130 A

#### Selenium

Unit	µg/l
Mean ± CI (99%)	0,797 ± 0,0961
Minimum - Maximum	0,602 - 1,03
Control test value ± U	-

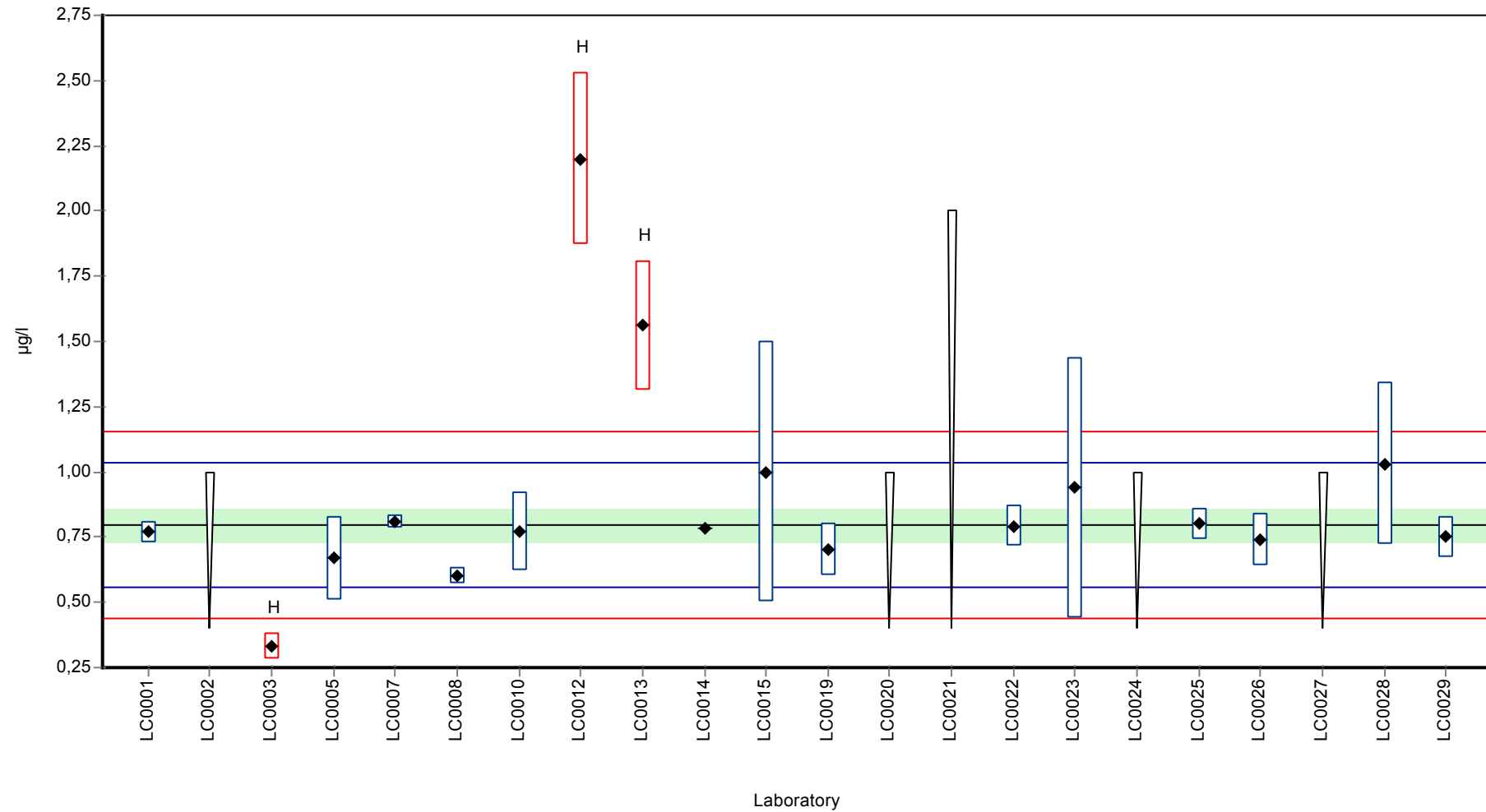
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,77	0,04	96,7	-0,22	
LC0002	< 1 (LOQ)	-	-	-	
LC0003	0,33	0,05	41,4	-3,89	H
LC0004	-	-	-	-	
LC0005	0,67	0,16	84,1	-1,06	
LC0006	-	-	-	-	
LC0007	0,807	0,0242	101	0,09	
LC0008	0,602	0,031	75,6	-1,62	
LC0009	-	-	-	-	
LC0010	0,77	0,15	96,7	-0,22	
LC0011	-	-	-	-	
LC0012	2,2	0,33	276	11,7	H
LC0013	1,56	0,25	196	6,37	H
LC0014	0,781	-	98	-0,13	
LC0015	1	0,5	126	1,7	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0,7	0,1	87,9	-0,81	
LC0020	< 1 (LOQ)	-	-	-	
LC0021	< 2 (LOQ)	-	-	-	
LC0022	0,793	0,0793	99,5	-0,03	
LC0023	0,94	0,5	118	1,2	
LC0024	< 1 (LOQ)	-	-	-	
LC0025	0,8	0,06	100	0,03	
LC0026	0,74	0,1	92,9	-0,47	
LC0027	< 1 (LOQ)	-	-	-	
LC0028	1,03	0,31	129	1,95	
LC0029	0,75	0,08	94,1	-0,39	

#### Characteristics of parameter

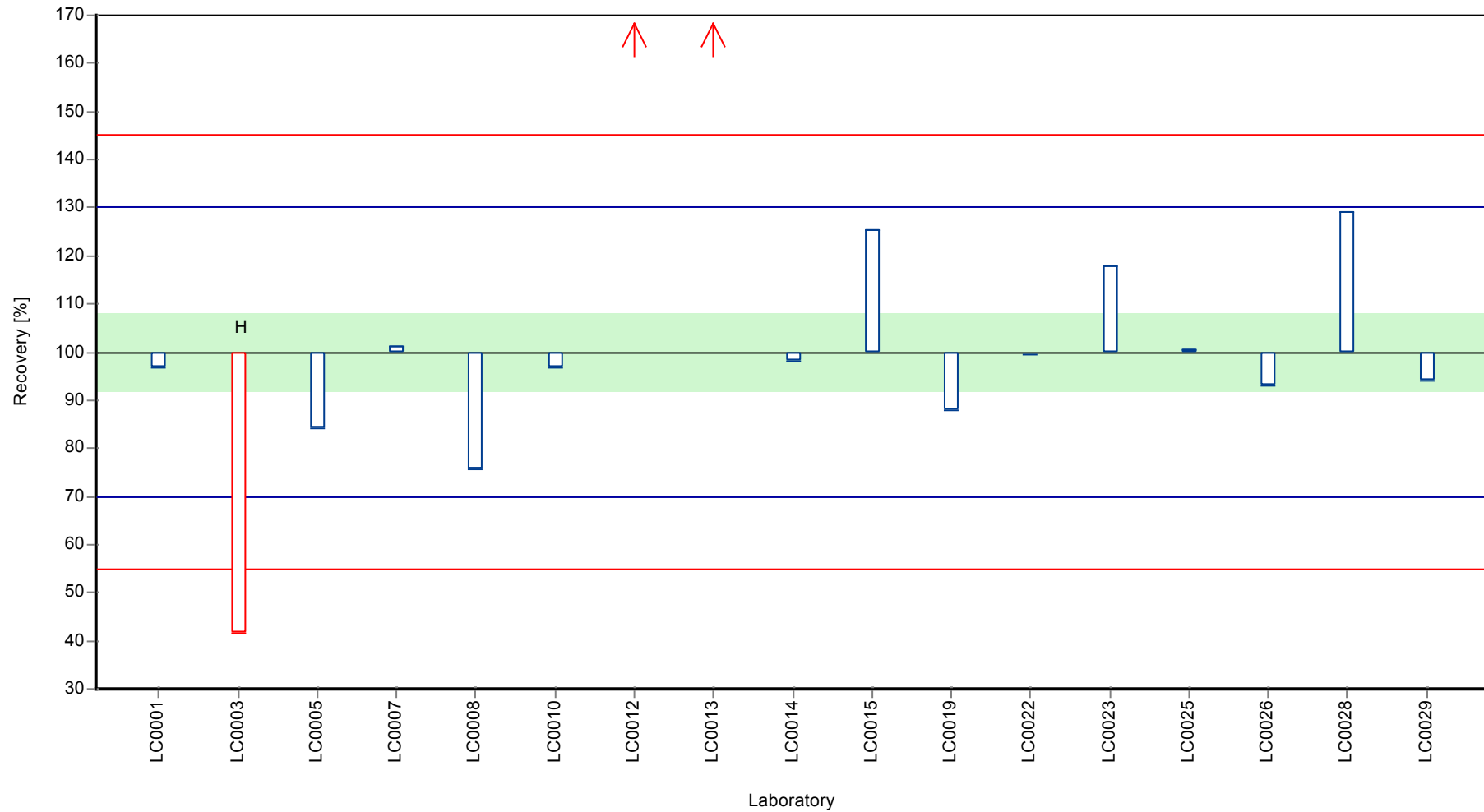
	all results	without outliers	Unit
Mean ± CI (99%)	0,897 ± 0,304	0,797 ± 0,0961	µg/l
Minimum	0,33	0,602	µg/l
Maximum	2,2	1,03	µg/l
Standard deviation	0,417	0,12	µg/l
rel. Standard deviation	46,5	15	%
n	17	14	-

Graphical presentation of results

Results



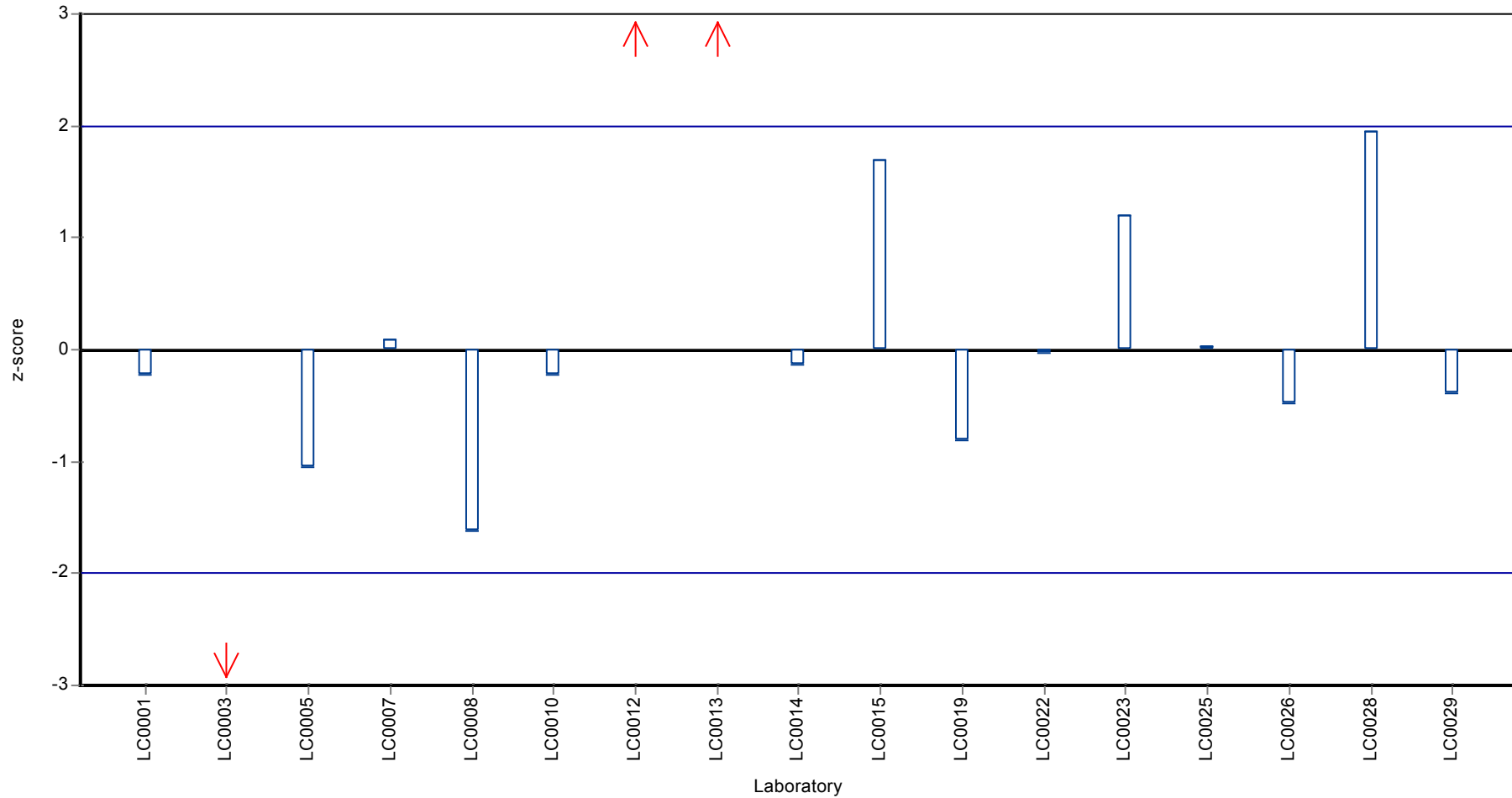
Recovery rate



Parameter oriented report Metals M130

Sample: M130A, Parameter: Selenium

Z-score



## Parameter oriented report

### M130 B

#### Selenium

Unit	µg/l
Mean ± CI (99%)	2,66 ± 0,235
Minimum - Maximum	2,05 - 3,38
Control test value ± U	-

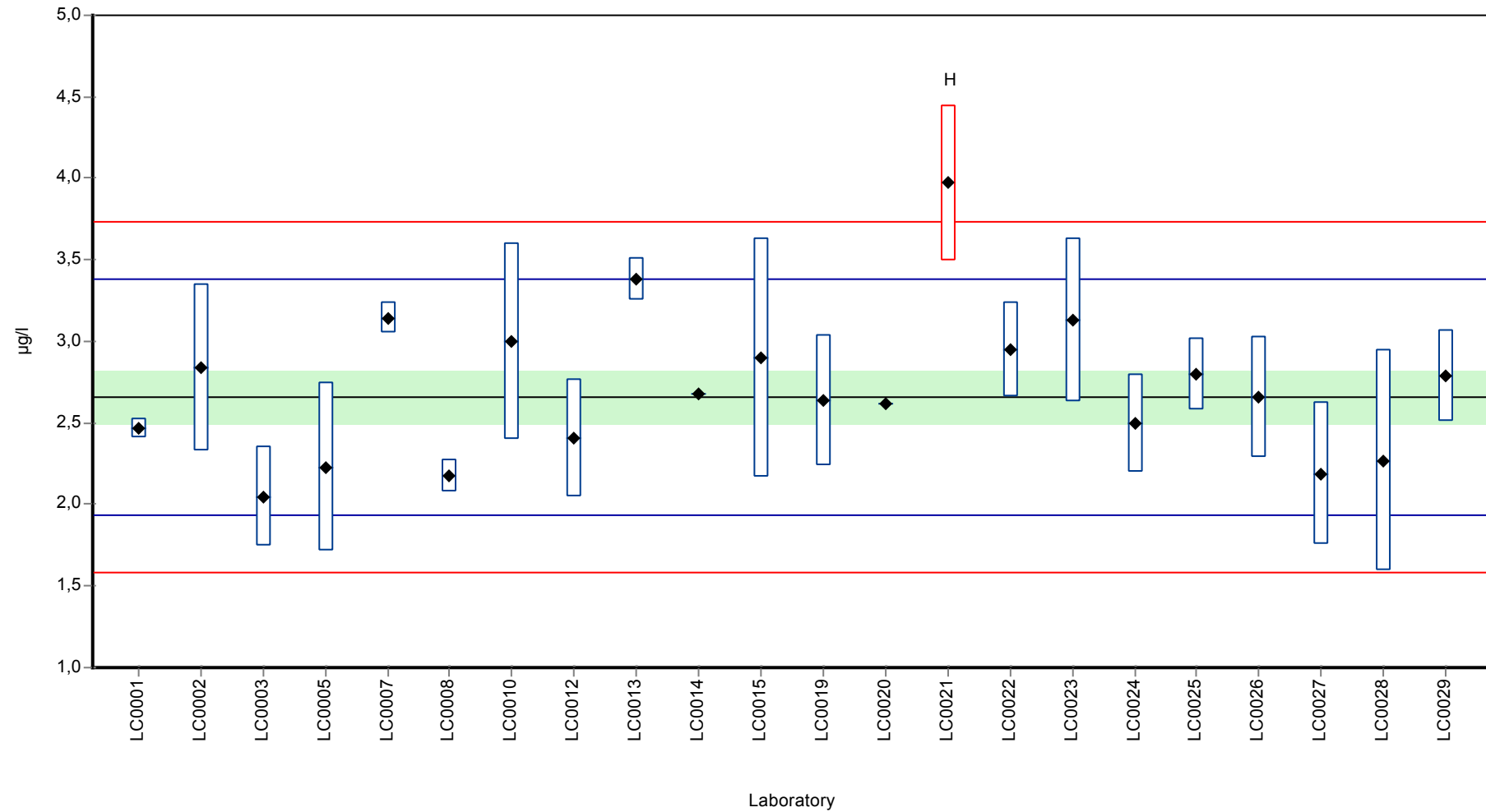
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2,47	0,06	92,9	-0,52	
LC0002	2,84	0,51	107	0,51	
LC0003	2,05	0,31	77,1	-1,69	
LC0004	-	-	-	-	
LC0005	2,23	0,52	83,9	-1,19	
LC0006	-	-	-	-	
LC0007	3,142	0,0943	118	1,35	
LC0008	2,18	0,1	82	-1,33	
LC0009	-	-	-	-	
LC0010	3	0,6	113	0,95	
LC0011	-	-	-	-	
LC0012	2,41	0,36	90,7	-0,69	
LC0013	3,38	0,13	127	2,01	
LC0014	2,674	-	101	0,04	
LC0015	2,9	0,73	109	0,67	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	2,64	0,4	99,3	-0,05	
LC0020	2,62	-	98,6	-0,11	
LC0021	3,973	0,477	149	3,66	H
LC0022	2,95	0,295	111	0,81	
LC0023	3,13	0,5	118	1,31	
LC0024	2,5	0,3	94	-0,44	
LC0025	2,8	0,22	105	0,39	
LC0026	2,66	0,37	100	0,00	
LC0027	2,19	0,44	82,4	-1,3	
LC0028	2,27	0,68	85,4	-1,08	
LC0029	2,79	0,28	105	0,37	

#### Characteristics of parameter

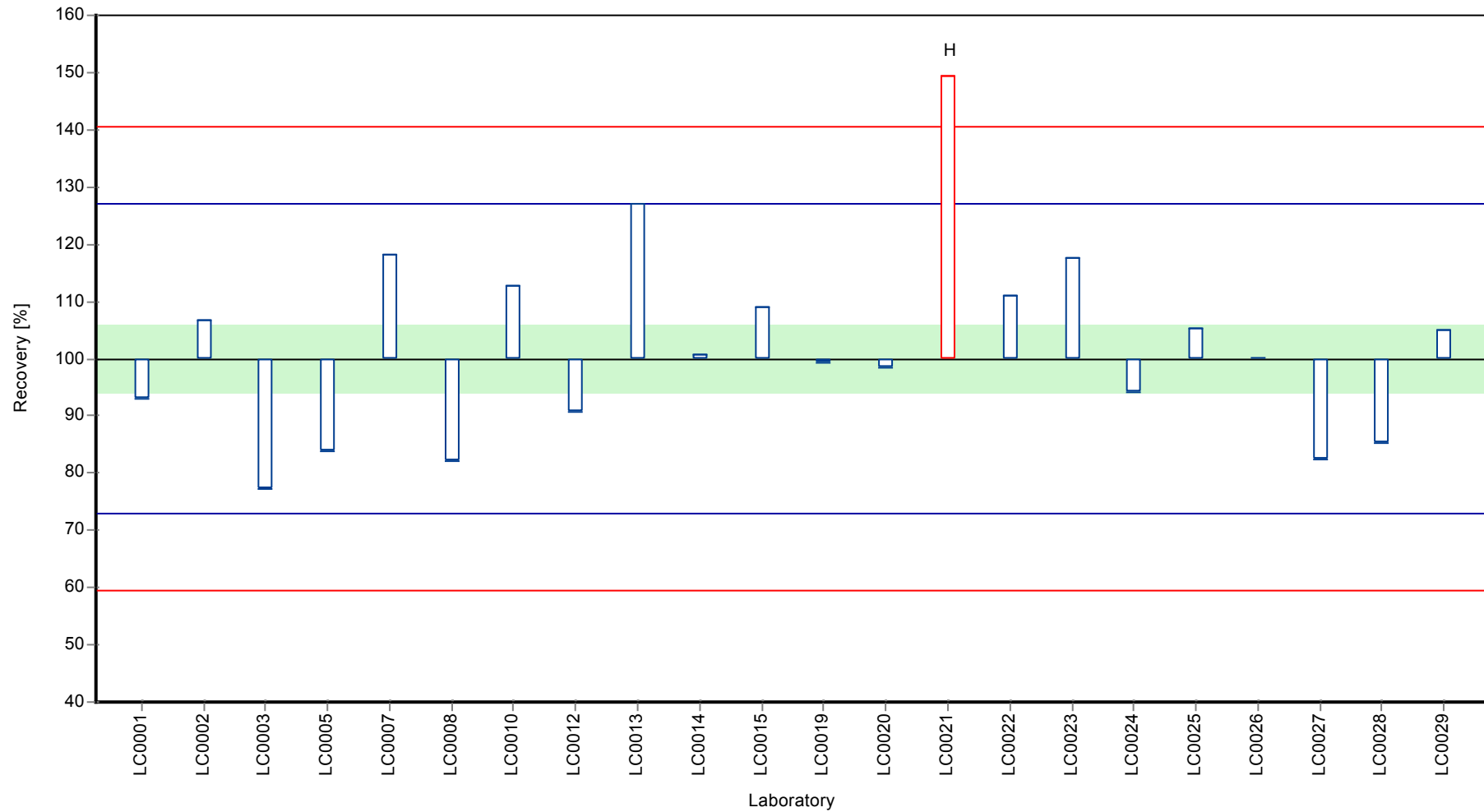
	all results	without outliers	Unit
Mean ± CI (99%)	2,72 ± 0,287	2,66 ± 0,235	µg/l
Minimum	2,05	2,05	µg/l
Maximum	3,97	3,38	µg/l
Standard deviation	0,449	0,359	µg/l
rel. Standard deviation	16,5	13,5	%
n	22	21	-

Graphical presentation of results

Results



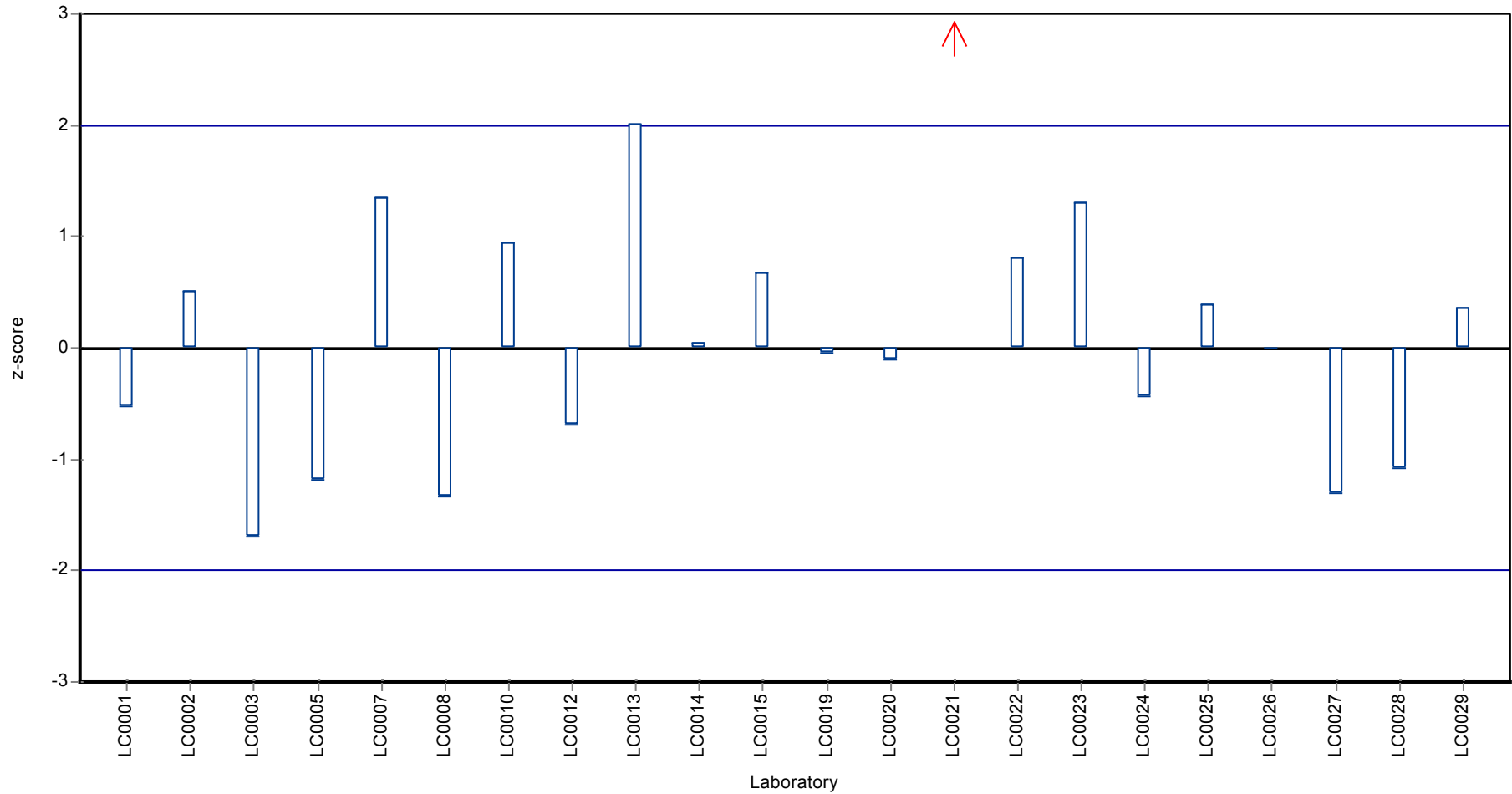
Recovery rate



Parameter oriented report Metals M130

Sample: M130B, Parameter: Selenium

Z-score





## Parameter oriented report

### M130 A

#### Uranium

Unit	µg/l
Mean ± CI (99%)	2,99 ± 0,155
Minimum - Maximum	2,57 - 3,4
Control test value ± U	3,01 ± 0,08

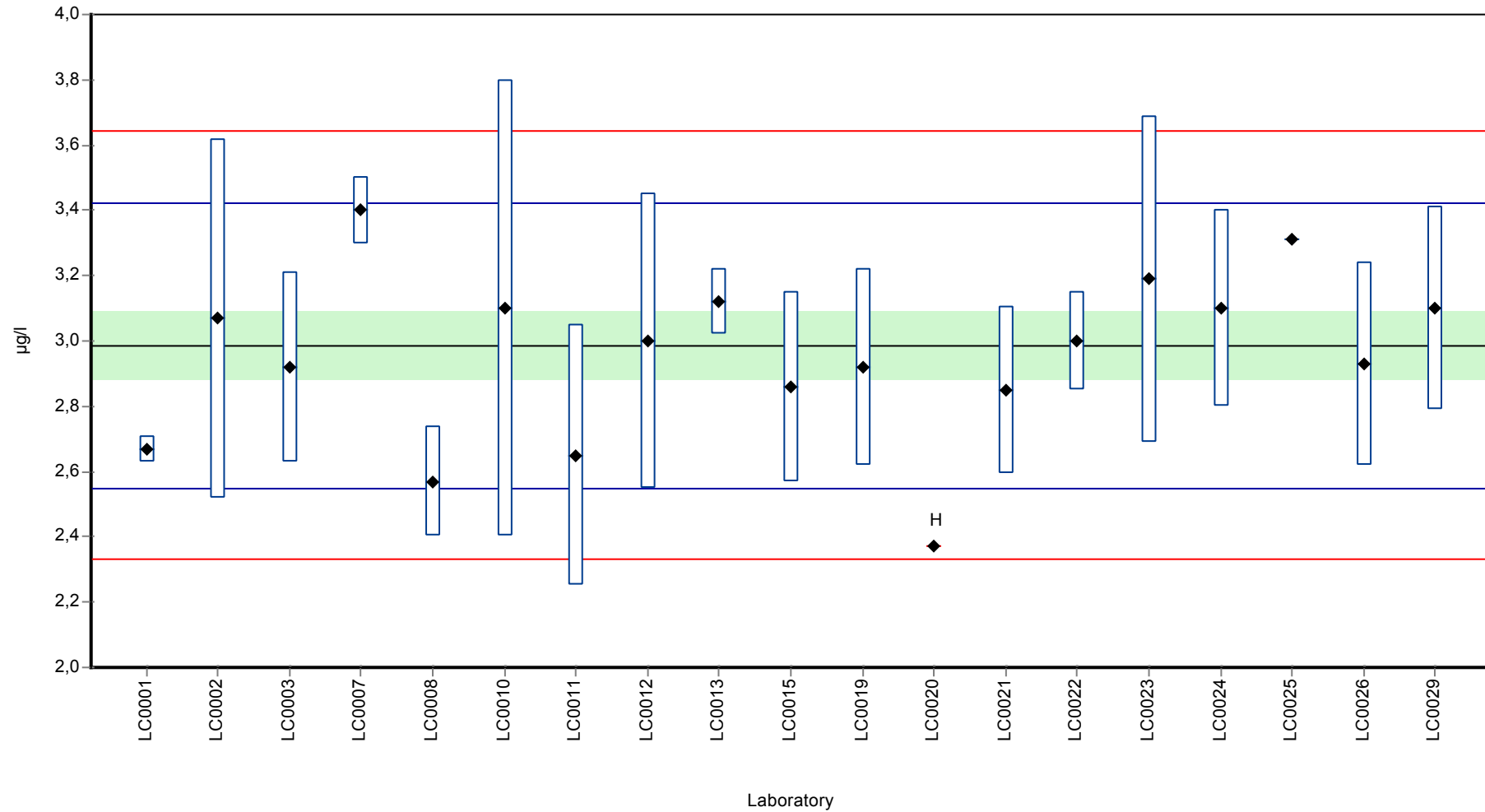
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2,67	0,04	89,4	-1,45	
LC0002	3,07	0,55	103	0,38	
LC0003	2,92	0,29	97,8	-0,3	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	3,4	0,102	114	1,89	
LC0008	2,57	0,17	86,1	-1,9	
LC0009	-	-	-	-	
LC0010	3,1	0,7	104	0,52	
LC0011	2,65	0,4	88,7	-1,54	
LC0012	3	0,45	100	0,06	
LC0013	3,12	0,1	104	0,61	
LC0014	-	-	-	-	
LC0015	2,86	0,29	95,8	-0,58	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	2,92	0,3	97,8	-0,3	
LC0020	2,37	-	79,4	-2,82	H
LC0021	2,849	0,256	95,4	-0,63	
LC0022	3	0,15	100	0,06	
LC0023	3,19	0,5	107	0,93	
LC0024	3,1	0,3	104	0,52	
LC0025	3,31	-	111	1,48	
LC0026	2,93	0,31	98,1	-0,26	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	3,1	0,31	104	0,52	

#### Characteristics of parameter

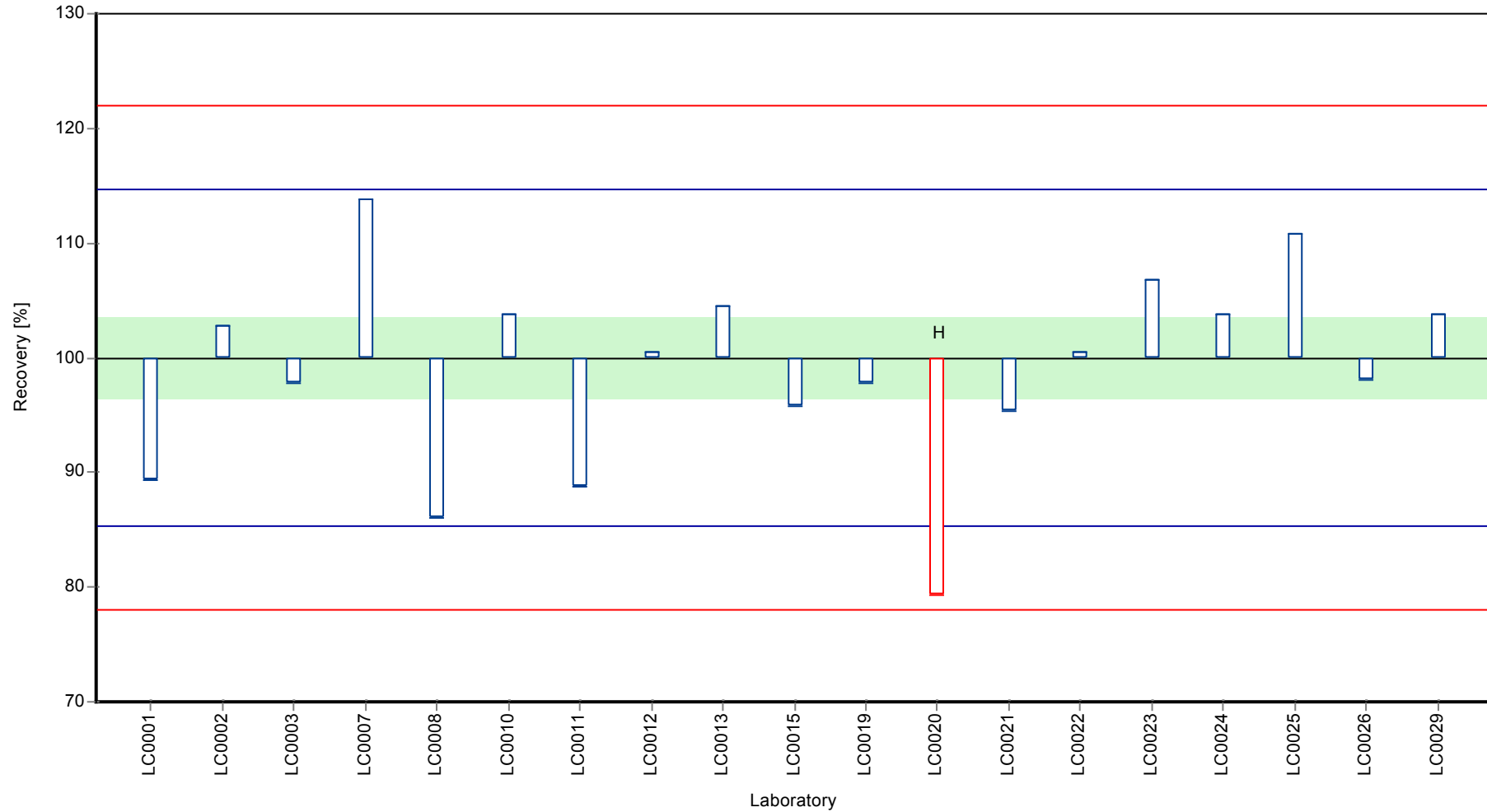
	all results	without outliers	Unit
Mean ± CI (99%)	2,95 ± 0,176	2,99 ± 0,155	µg/l
Minimum	2,37	2,57	µg/l
Maximum	3,4	3,4	µg/l
Standard deviation	0,255	0,219	µg/l
rel. Standard deviation	8,65	7,33	%
n	19	18	-

Graphical presentation of results

Results



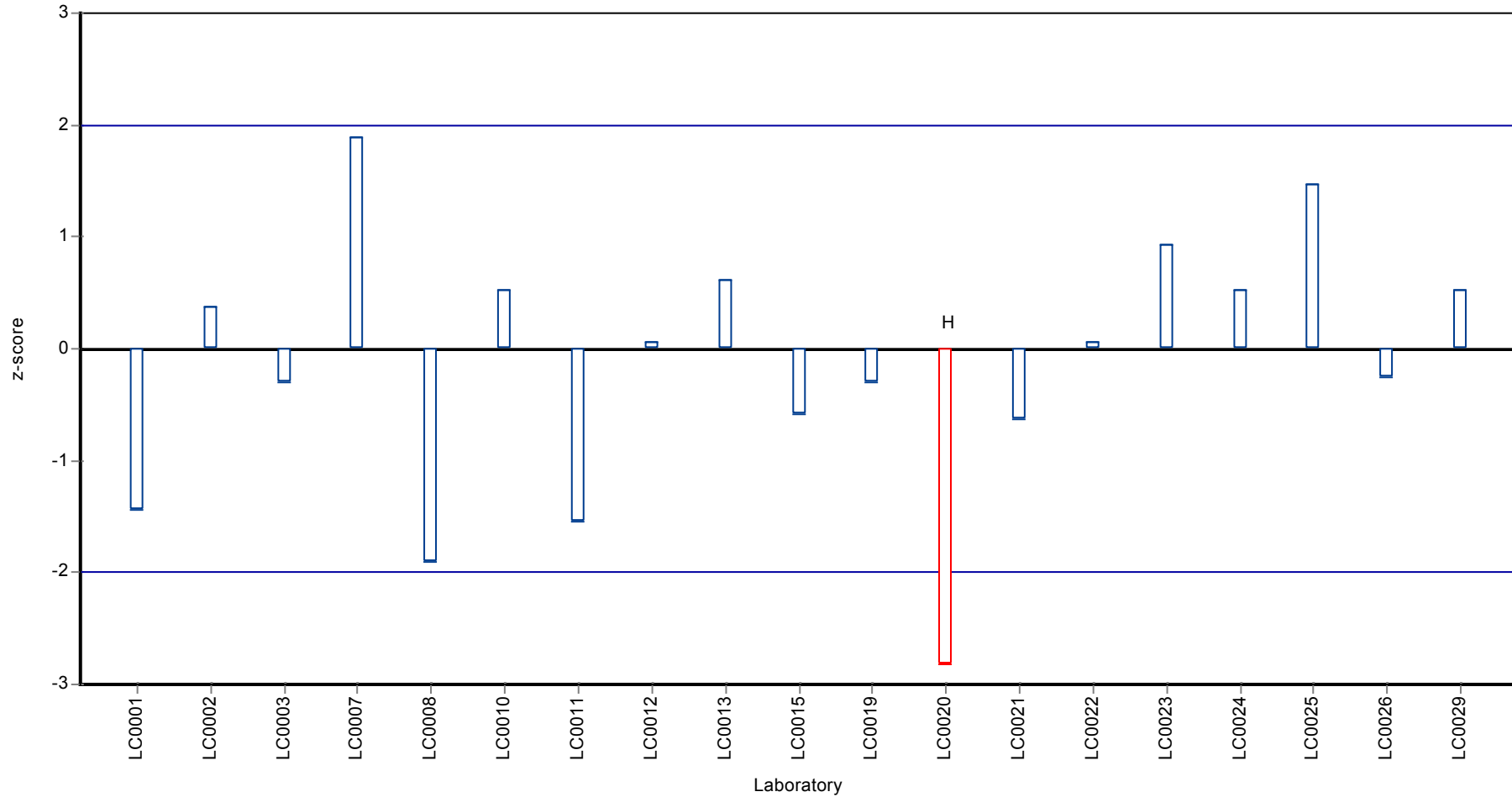
Recovery rate



Parameter oriented report Metals M130

Sample: M130A, Parameter: Uranium

Z-score



## Parameter oriented report

### M130 B

#### Uranium

Unit	µg/l
Mean ± CI (99%)	7,06 ± 0,406
Minimum - Maximum	5,95 - 8,15
Control test value ± U	7,28 ± 0,13

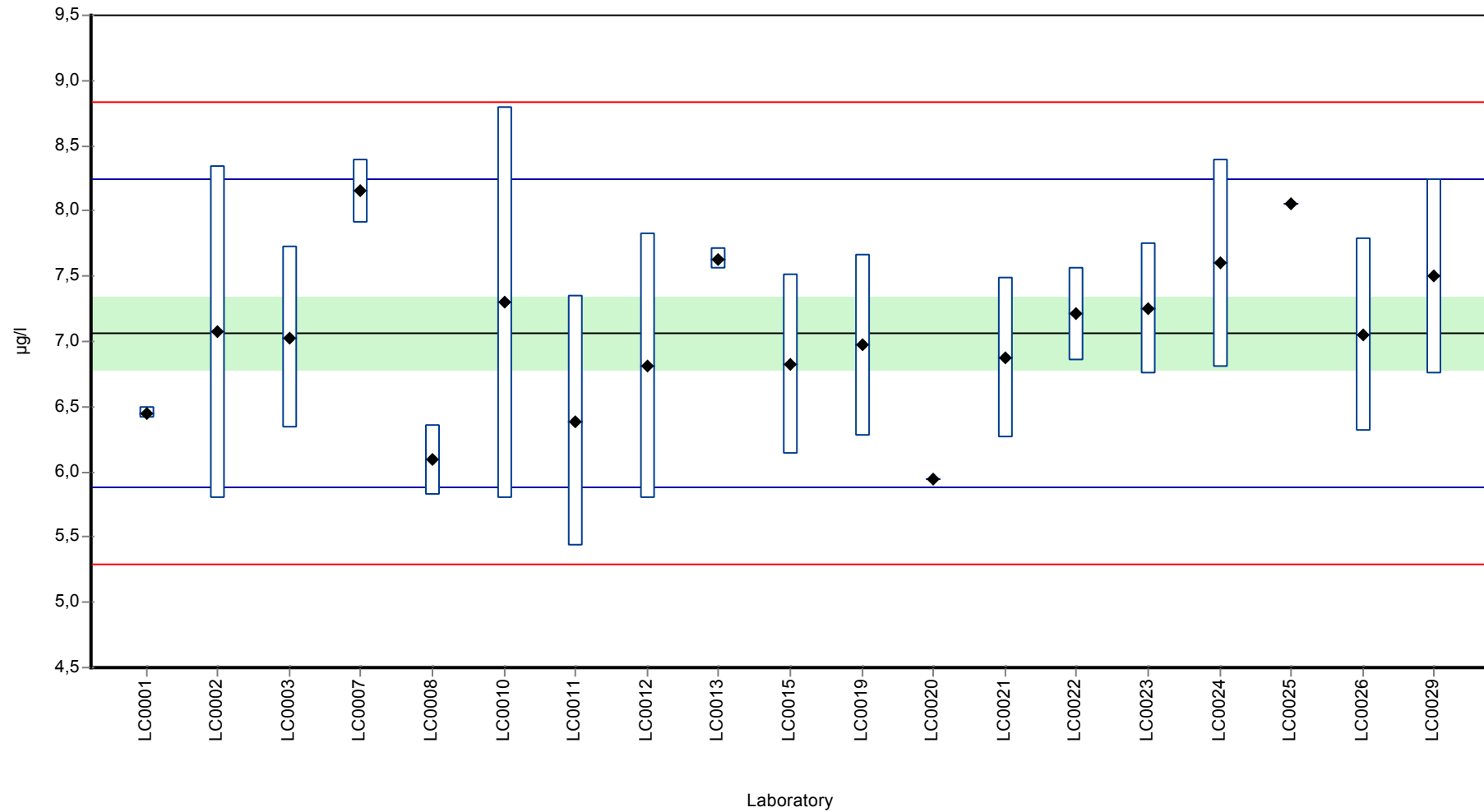
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	6,45	0,044	91,3	-1,04	
LC0002	7,07	1,27	100	0,01	
LC0003	7,03	0,7	99,5	-0,06	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	8,15	0,245	115	1,84	
LC0008	6,09	0,27	86,2	-1,65	
LC0009	-	-	-	-	
LC0010	7,3	1,5	103	0,4	
LC0011	6,39	0,96	90,5	-1,14	
LC0012	6,81	1,02	96,4	-0,43	
LC0013	7,63	0,08	108	0,96	
LC0014	-	-	-	-	
LC0015	6,82	0,69	96,6	-0,41	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	6,97	0,7	98,7	-0,16	
LC0020	5,95	-	84,2	-1,89	
LC0021	6,876	0,619	97,4	-0,32	
LC0022	7,21	0,361	102	0,25	
LC0023	7,25	0,5	103	0,32	
LC0024	7,6	0,8	108	0,91	
LC0025	8,05	-	114	1,67	
LC0026	7,05	0,74	99,8	-0,02	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	7,5	0,75	106	0,74	

#### Characteristics of parameter

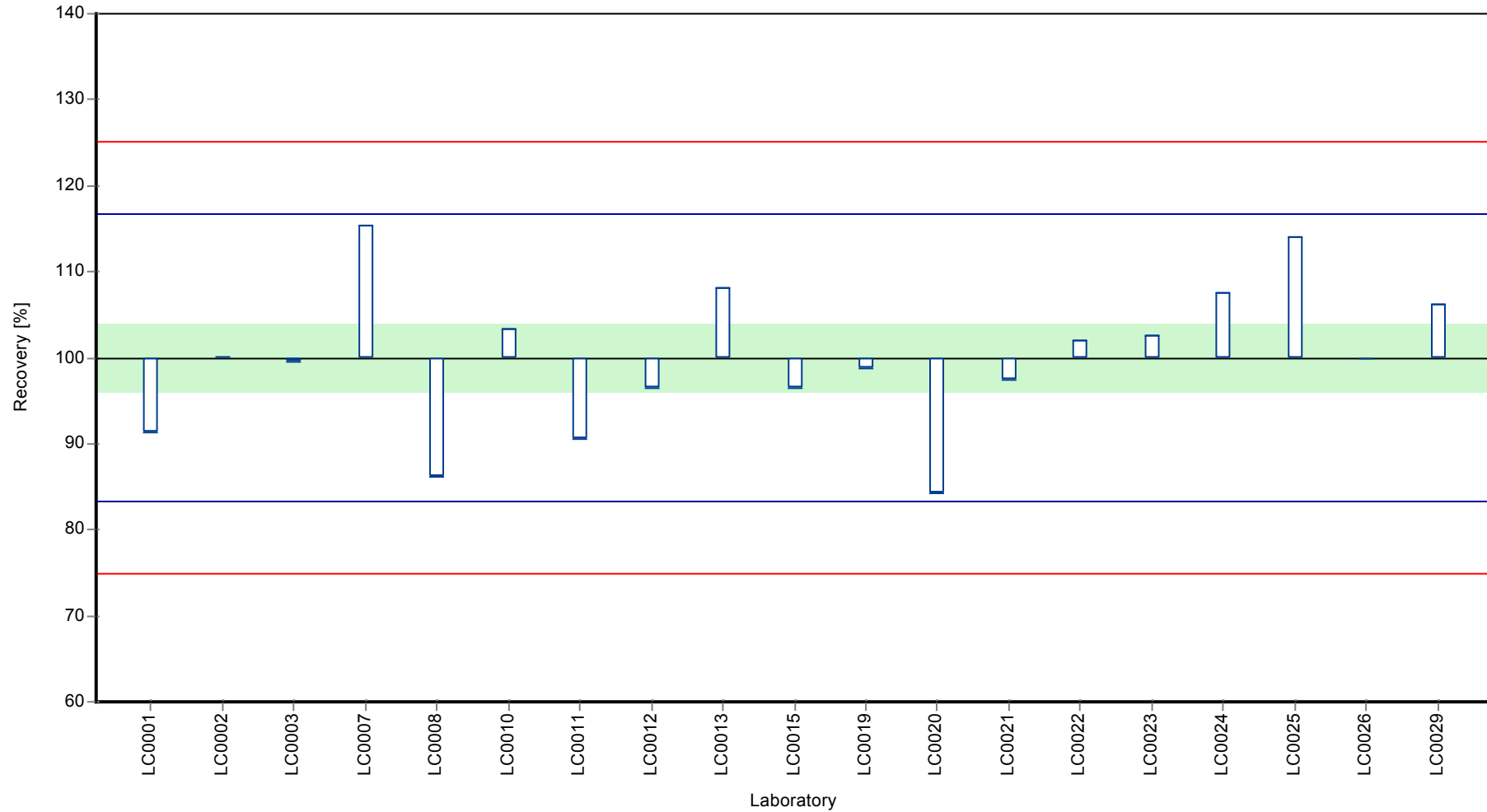
	all results	without outliers	Unit
Mean ± CI (99%)	7,06 ± 0,406	7,06 ± 0,406	µg/l
Minimum	5,95	5,95	µg/l
Maximum	8,15	8,15	µg/l
Standard deviation	0,589	0,589	µg/l
rel. Standard deviation	8,34	8,34	%
n	19	19	-

Graphical presentation of results

Results



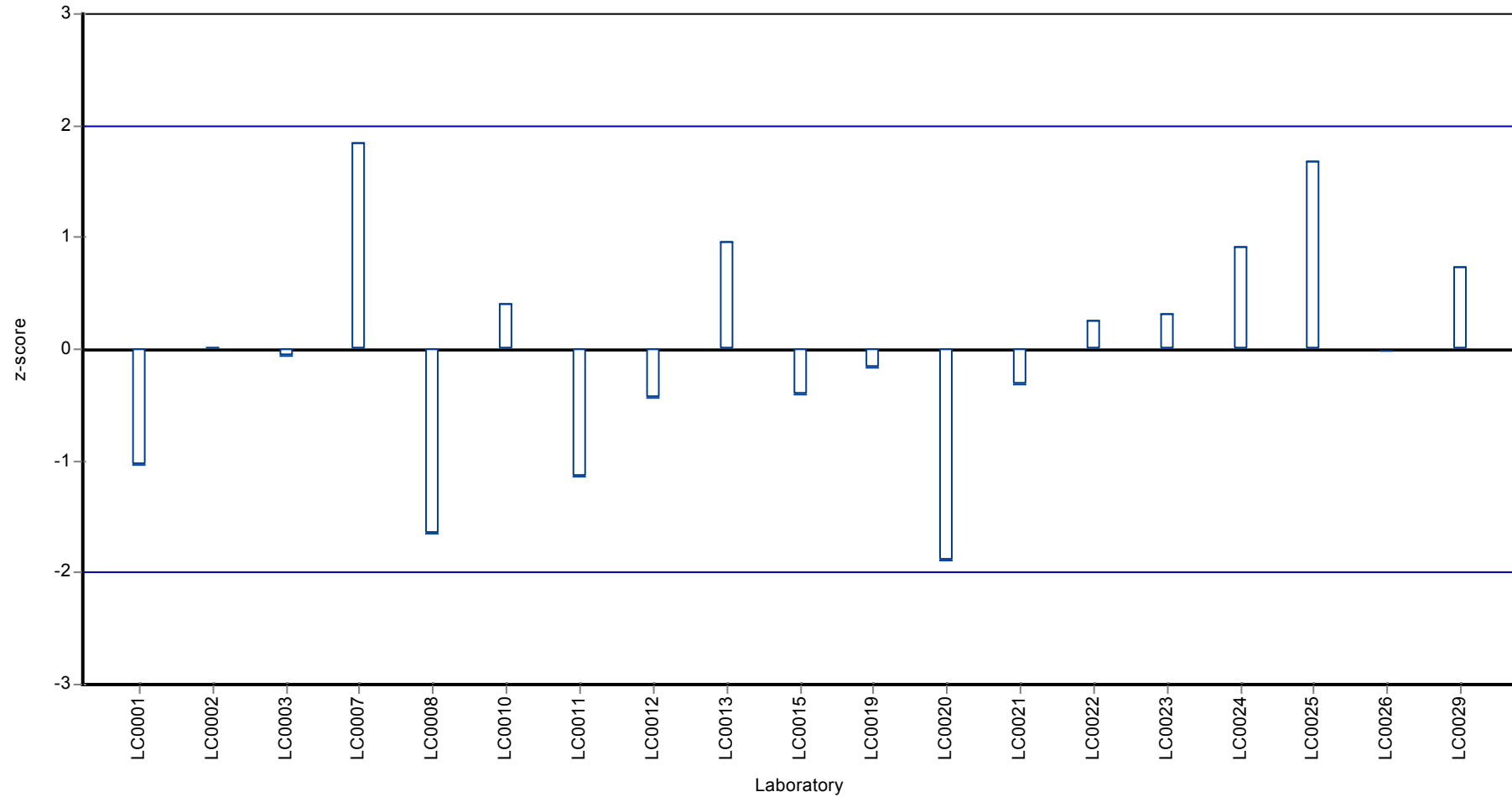
Recovery rate



Parameter oriented report Metals M130

Sample: M130B, Parameter: Uranium

Z-score





## Parameter oriented report

### M130 A

#### Zinc

Unit	µg/l
Mean ± CI (99%)	152 ± 7,22
Minimum - Maximum	126 - 176
Control test value ± U	140 ± 4

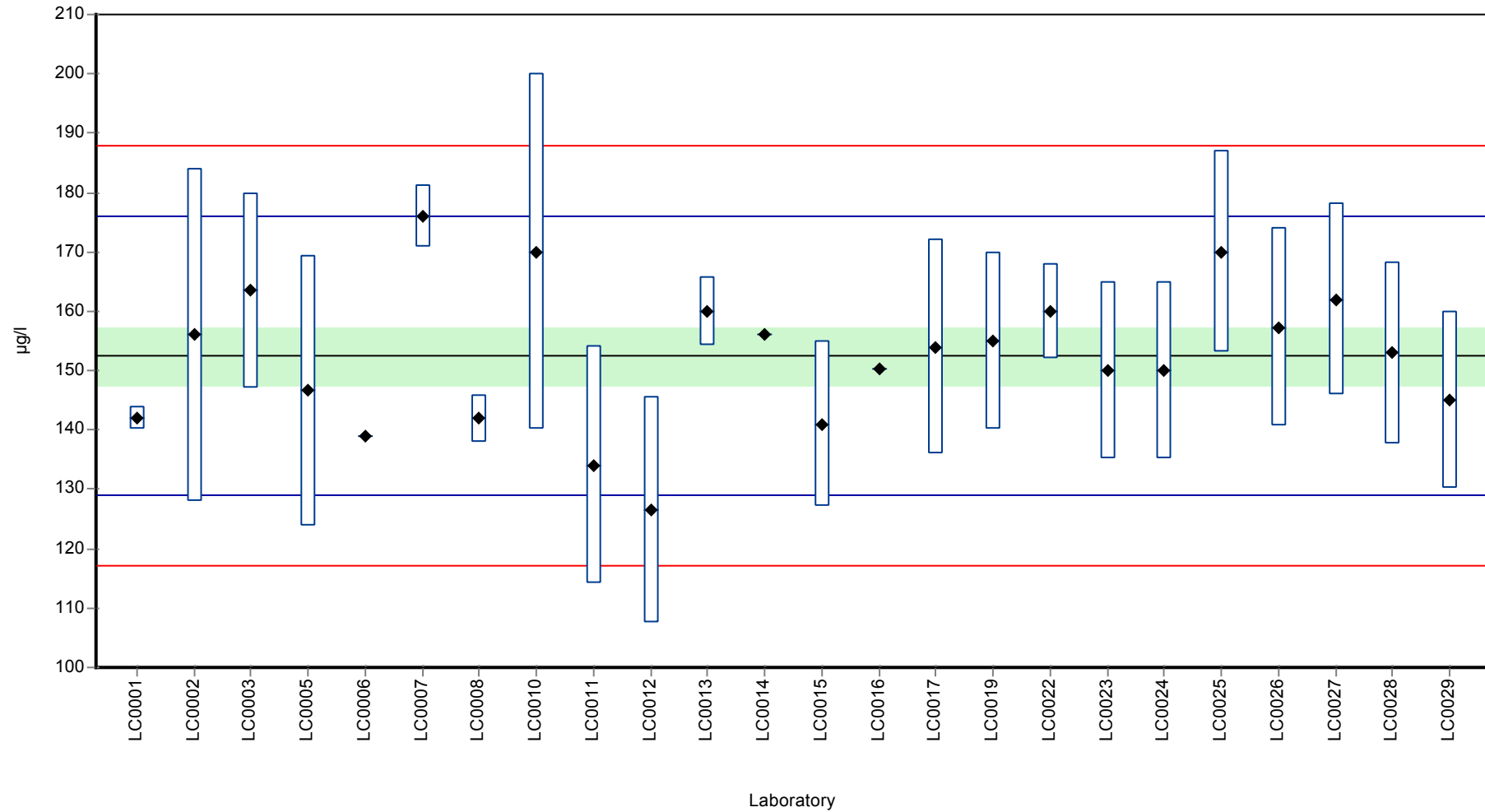
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	142	2	93,1	-0,89	
LC0002	156	28	102	0,3	
LC0003	163,5	16,4	107	0,94	
LC0004	-	-	-	-	
LC0005	146,6	22,87	96,2	-0,5	
LC0006	139	-	91,2	-1,14	
LC0007	175,9	5,28	115	1,99	
LC0008	142	4	93,1	-0,89	
LC0009	-	-	-	-	
LC0010	170	30	112	1,49	
LC0011	134,12	20,12	88	-1,56	
LC0012	126,5	18,98	83	-2,2	
LC0013	160	5,7	105	0,64	
LC0014	156,05	-	102	0,3	
LC0015	141	14	92,5	-0,97	
LC0016	150,2	0,082	98,5	-0,19	
LC0017	154	18	101	0,13	
LC0018	-	-	-	-	
LC0019	155	15	102	0,21	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	160	8	105	0,64	
LC0023	150	15	98,4	-0,21	
LC0024	150	15	98,4	-0,21	
LC0025	169,96	16,996	111	1,48	
LC0026	157,33	16,83	103	0,41	
LC0027	162	16,2	106	0,81	
LC0028	153	15,3	100	0,05	
LC0029	145	15	95,1	-0,63	

#### Characteristics of parameter

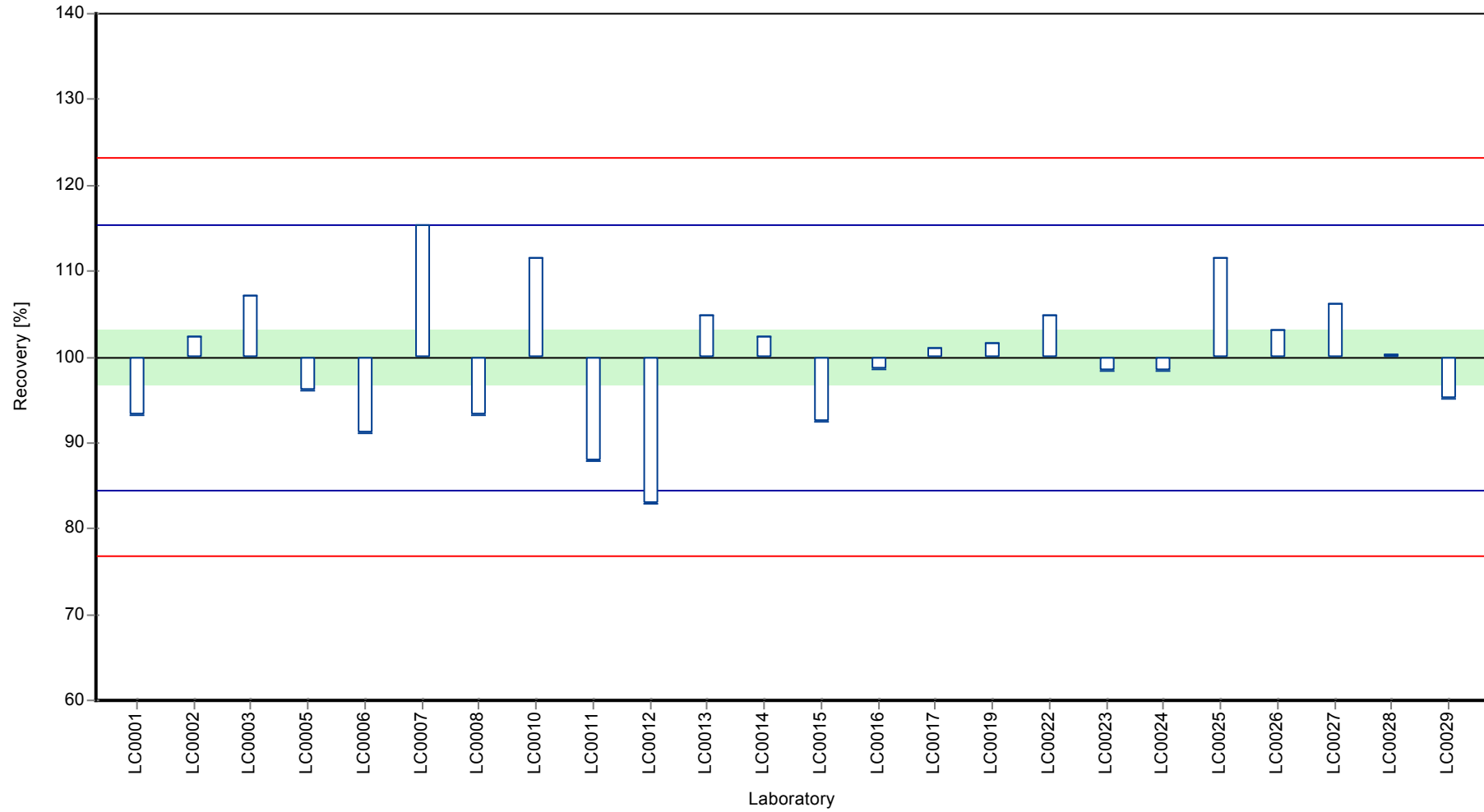
	all results	without outliers	Unit
Mean ± CI (99%)	152 ± 7,22	152 ± 7,22	µg/l
Minimum	126	126	µg/l
Maximum	176	176	µg/l
Standard deviation	11,8	11,8	µg/l
rel. Standard deviation	7,73	7,73	%
n	24	24	-

Graphical presentation of results

Results



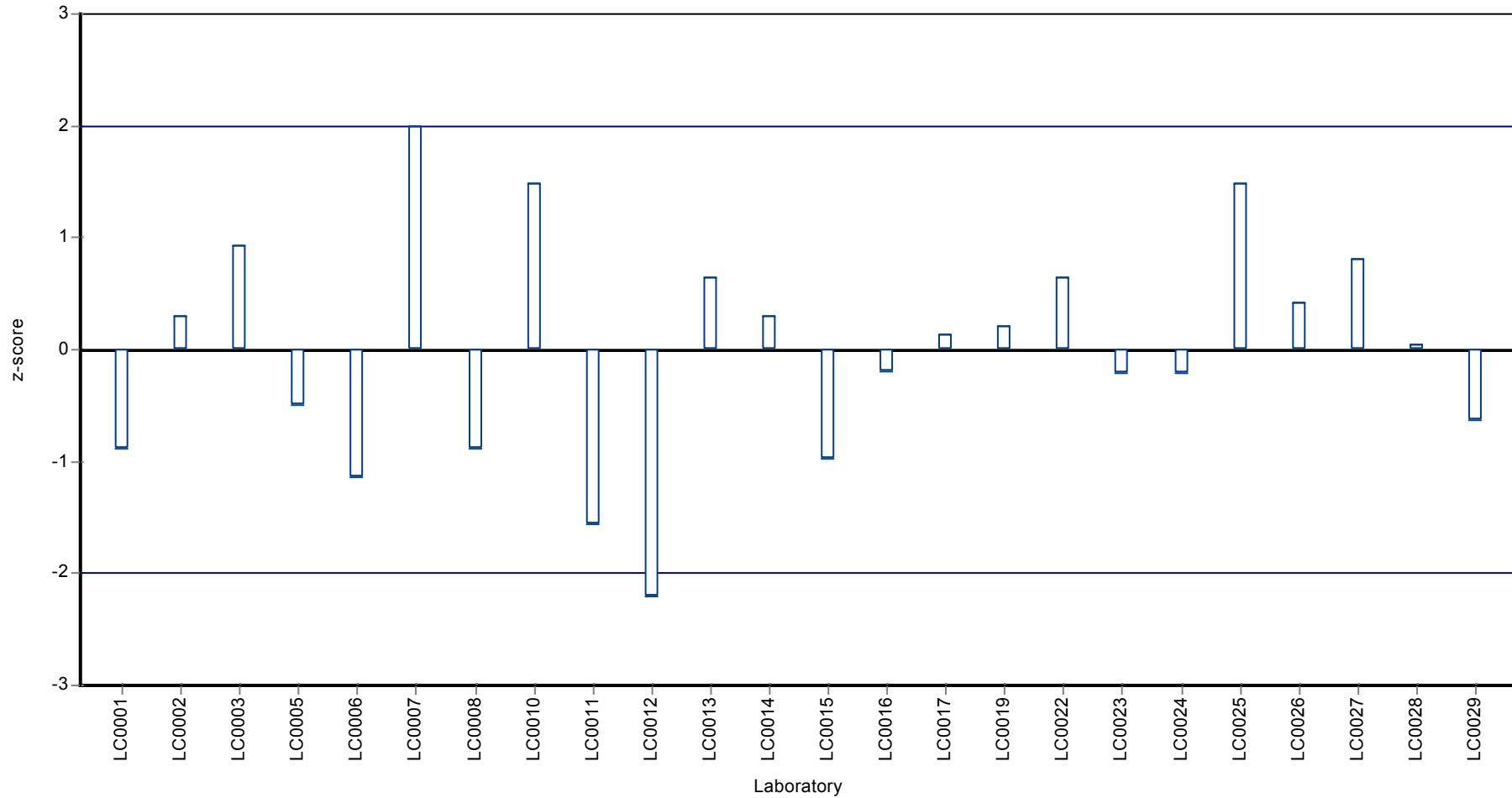
Recovery rate



Parameter oriented report Metals M130

Sample: M130A, Parameter: Zinc

Z-score



## Parameter oriented report

### M130 B

#### Zinc

Unit	µg/l
Mean ± CI (99%)	84,6 ± 3,99
Minimum - Maximum	72,2 - 99
Control test value ± U	81,1 ± 3,2

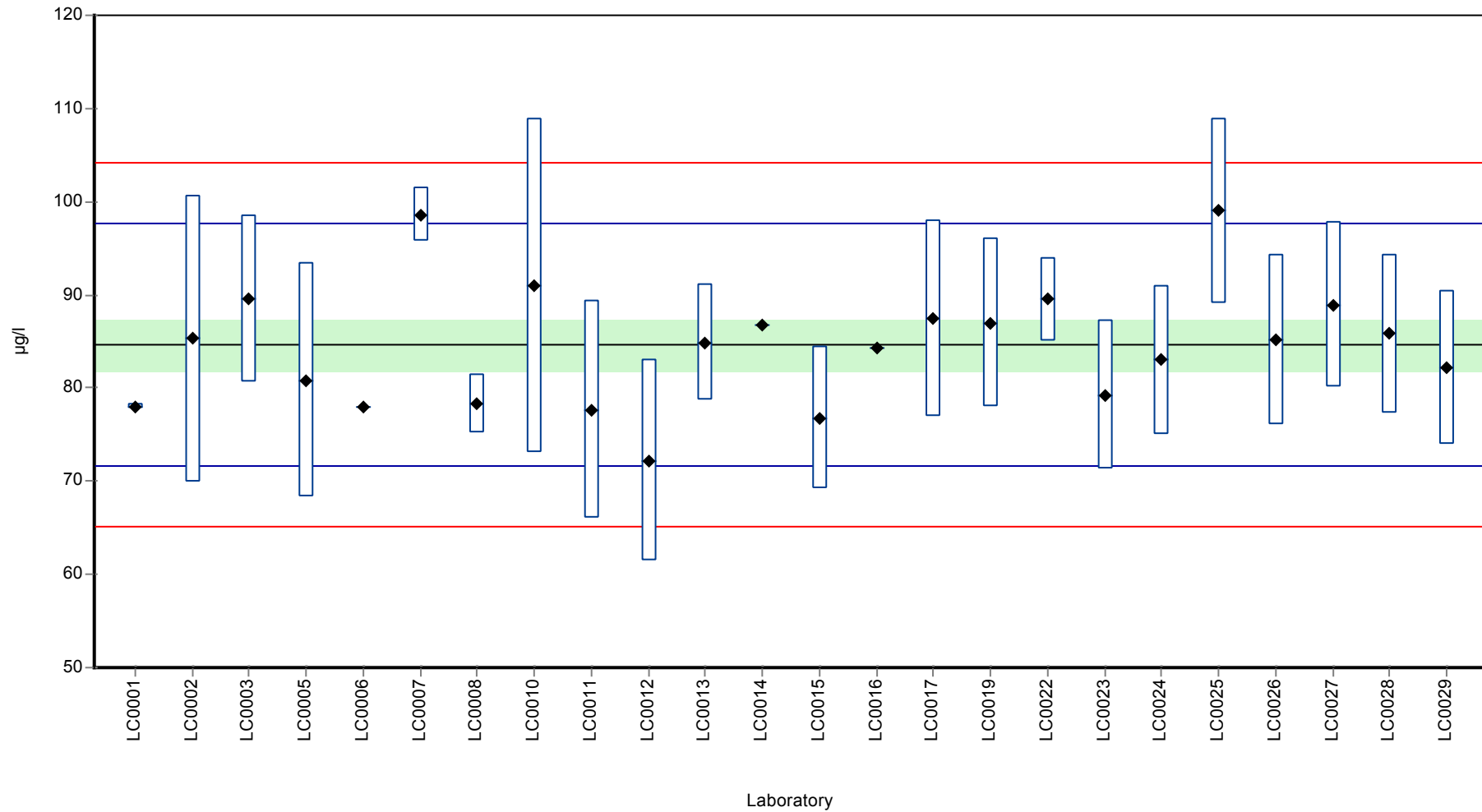
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	78	0,25	92,2	-1,01	
LC0002	85,3	15,4	101	0,11	
LC0003	89,6	9	106	0,77	
LC0004	-	-	-	-	
LC0005	80,82	12,61	95,6	-0,57	
LC0006	78	-	92,2	-1,01	
LC0007	98,623	2,959	117	2,16	
LC0008	78,3	3,1	92,6	-0,96	
LC0009	-	-	-	-	
LC0010	91	18	108	0,99	
LC0011	77,7	11,65	91,9	-1,05	
LC0012	72,2	10,83	85,4	-1,9	
LC0013	84,9	6,2	100	0,05	
LC0014	86,7	-	103	0,33	
LC0015	76,8	7,7	90,8	-1,19	
LC0016	84,24	0,0728	99,6	-0,05	
LC0017	87,5	10,6	103	0,45	
LC0018	-	-	-	-	
LC0019	87	9	103	0,37	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	89,5	4,48	106	0,76	
LC0023	79,26	8	93,7	-0,81	
LC0024	83	8	98,1	-0,24	
LC0025	99,02	9,902	117	2,22	
LC0026	85,2	9,12	101	0,1	
LC0027	88,9	8,88	105	0,67	
LC0028	85,8	8,6	101	0,19	
LC0029	82,2	8,2	97,2	-0,36	

#### Characteristics of parameter

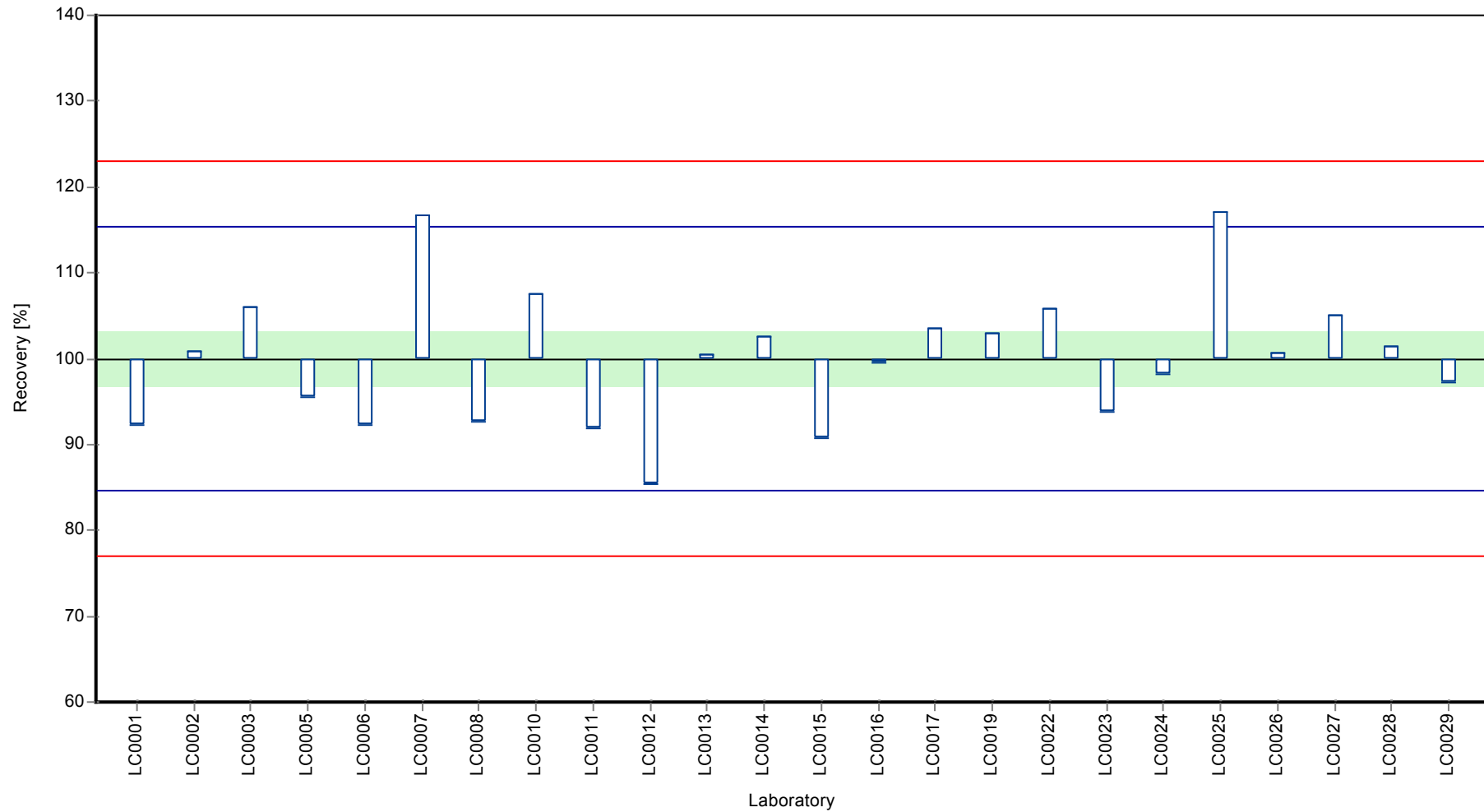
	all results	without outliers	Unit
Mean ± CI (99%)	84,6 ± 3,99	84,6 ± 3,99	µg/l
Minimum	72,2	72,2	µg/l
Maximum	99	99	µg/l
Standard deviation	6,51	6,51	µg/l
rel. Standard deviation	7,7	7,7	%
n	24	24	-

Graphical presentation of results

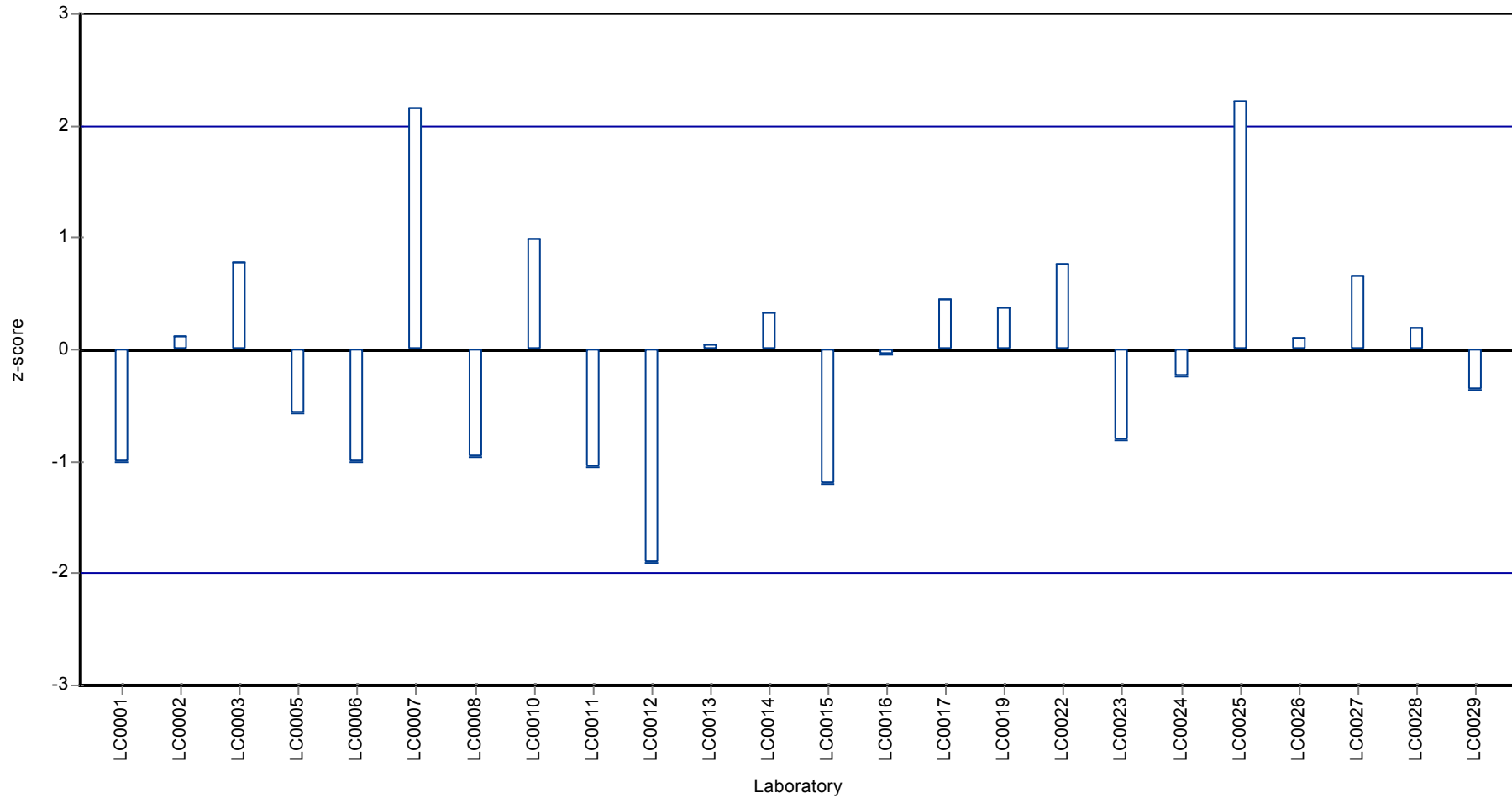
Results



Recovery rate



Z-score





## 8 Laboratory oriented report

The laboratory oriented report is sorted by laboratory code.

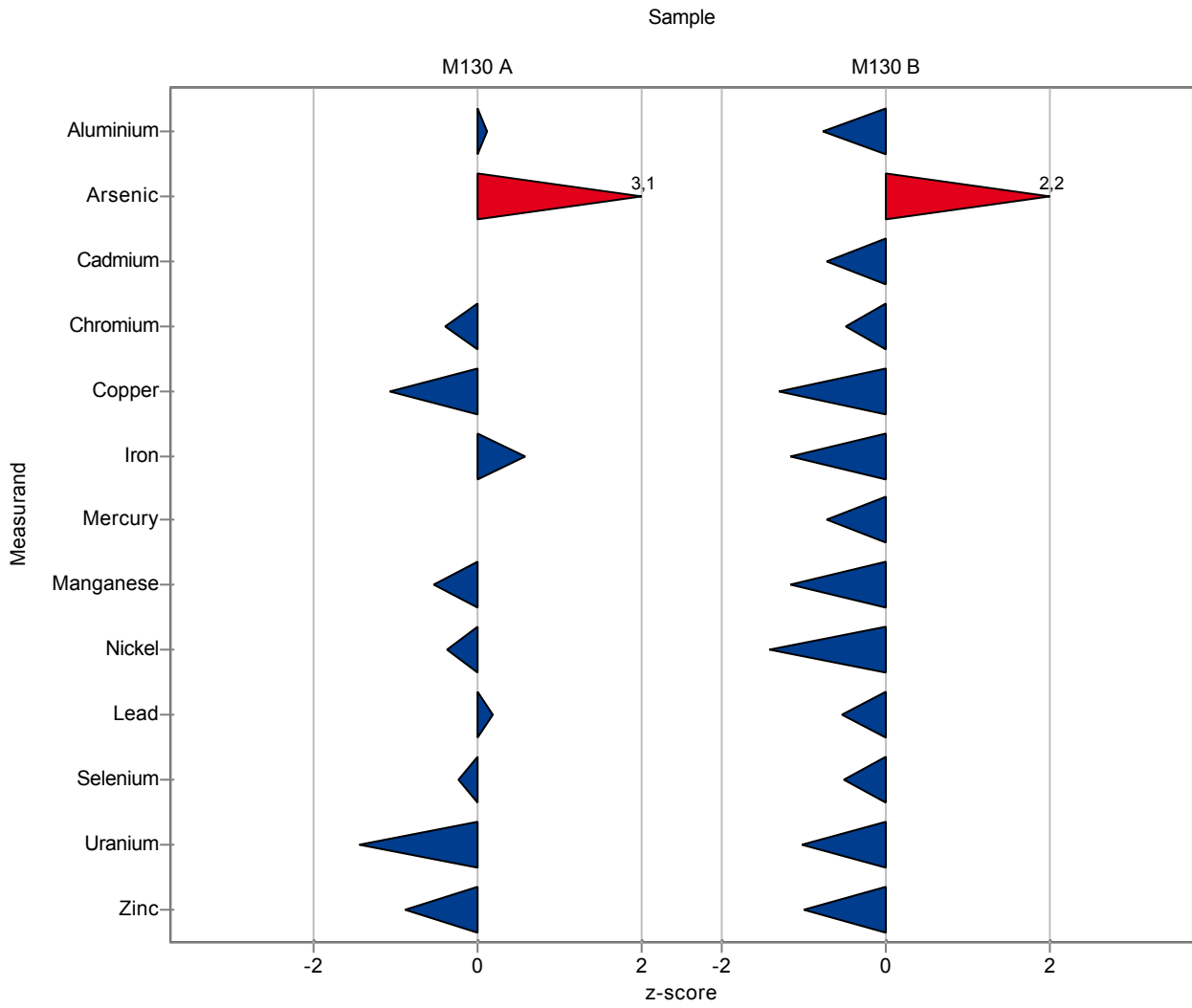
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	1,13	0,023	0,312	104	0,13
Arsenic	µg/l	0,491	± 0,0621	0,73	0,05	0,0774	149	3,09
Cadmium	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,2	0,006	0,117	96,3	-0,4
Copper	µg/l	5,97	± 0,302	5,47	0,006	0,471	91,6	-1,06
Iron	µg/l	1,78	± 0,328	2	0,09	0,379	112	0,59
Mercury	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,29	0,032	0,167	96,2	-0,54
Nickel	µg/l	0,33	± 0,0521	0,31	0,02	0,0549	93,9	-0,37
Lead	µg/l	0,108	± 0,0108	0,11	0,006	0,0102	102	0,19
Selenium	µg/l	0,797	± 0,0961	0,77	0,04	0,12	96,7	-0,22
Uranium	µg/l	2,99	± 0,155	2,67	0,04	0,219	89,4	-1,45
Zinc	µg/l	152	± 7,22	142	2	11,8	93,1	-0,89

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	6,25	0,64	1,04	88,4	-0,79
Arsenic	µg/l	0,61	± 0,0737	0,82	0,006	0,0952	134	2,21
Cadmium	µg/l	0,259	± 0,0157	0,24	0,006	0,0251	92,8	-0,74
Chromium	µg/l	0,754	± 0,0545	0,72	0,03	0,068	95,5	-0,49
Copper	µg/l	5,46	± 0,2	5,06	0,05	0,306	92,7	-1,3
Iron	µg/l	10,9	± 0,507	9,96	0,273	0,774	91,7	-1,16
Mercury	µg/l	0,134	± 0,0242	0,11	0,001	0,0333	81,9	-0,73
Manganese	µg/l	2,48	± 0,111	2,29	0,031	0,162	92,4	-1,17
Nickel	µg/l	0,545	± 0,0347	0,49	0,015	0,0384	90	-1,42
Lead	µg/l	0,123	± 0,0443	0,1	0,002	0,0417	81,5	-0,54
Selenium	µg/l	2,66	± 0,235	2,47	0,06	0,359	92,9	-0,52
Uranium	µg/l	7,06	± 0,406	6,45	0,044	0,589	91,3	-1,04
Zinc	µg/l	84,6	± 3,99	78	0,25	6,51	92,2	-1,01



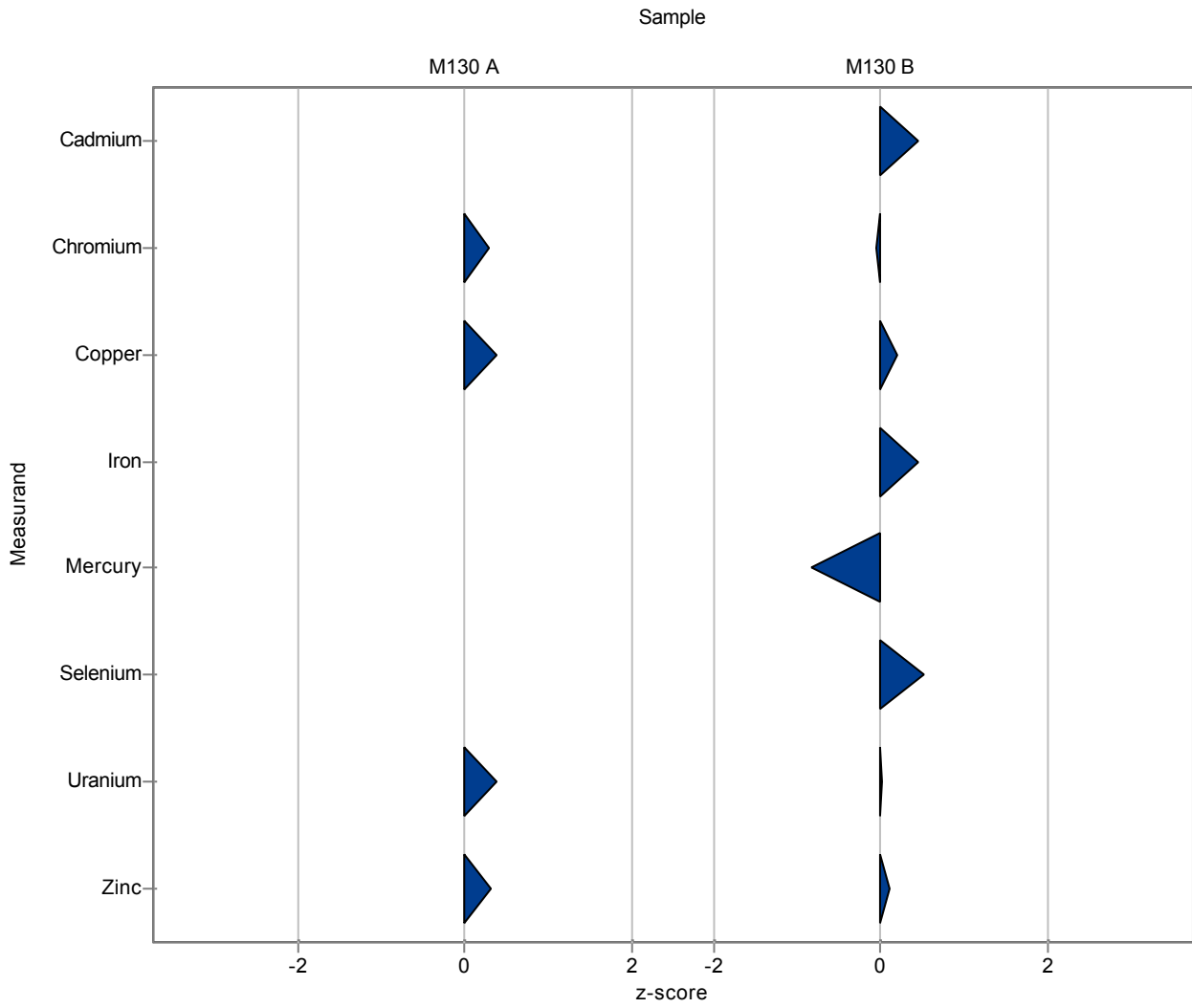
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	<10 (LOQ)	-	0,312	-	-
Arsenic	µg/l	0,491	± 0,0621	<1 (LOQ)	-	0,0774	-	-
Cadmium	µg/l	-	± -	<0,05 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,28	0,23	0,117	103	0,28
Copper	µg/l	5,97	± 0,302	6,15	1,11	0,471	103	0,38
Iron	µg/l	1,78	± 0,328	<5 (LOQ)	-	0,379	-	-
Mercury	µg/l	-	± -	<0,01 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	<5 (LOQ)	-	0,167	-	-
Nickel	µg/l	0,33	± 0,0521	<1 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	<0,5 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	<1 (LOQ)	-	0,12	-	-
Uranium	µg/l	2,99	± 0,155	3,07	0,55	0,219	103	0,38
Zinc	µg/l	152	± 7,22	156	28	11,8	102	0,3

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	<10 (LOQ)	-	1,04	-	-
Arsenic	µg/l	0,61	± 0,0737	<1 (LOQ)	-	0,0952	-	-
Cadmium	µg/l	0,259	± 0,0157	0,27	0,05	0,0251	104	0,46
Chromium	µg/l	0,754	± 0,0545	0,749	0,13	0,068	99,4	-0,07
Copper	µg/l	5,46	± 0,2	5,52	0,99	0,306	101	0,2
Iron	µg/l	10,9	± 0,507	11,2	2	0,774	103	0,44
Mercury	µg/l	0,134	± 0,0242	0,106	0,02	0,0333	78,9	-0,85
Manganese	µg/l	2,48	± 0,111	<5 (LOQ)	-	0,162	-	-
Nickel	µg/l	0,545	± 0,0347	<1 (LOQ)	-	0,0384	-	-
Lead	µg/l	0,123	± 0,0443	<0,5 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	2,84	0,51	0,359	107	0,51
Uranium	µg/l	7,06	± 0,406	7,07	1,27	0,589	100	0,01
Zinc	µg/l	84,6	± 3,99	85,3	15,4	6,51	101	0,11



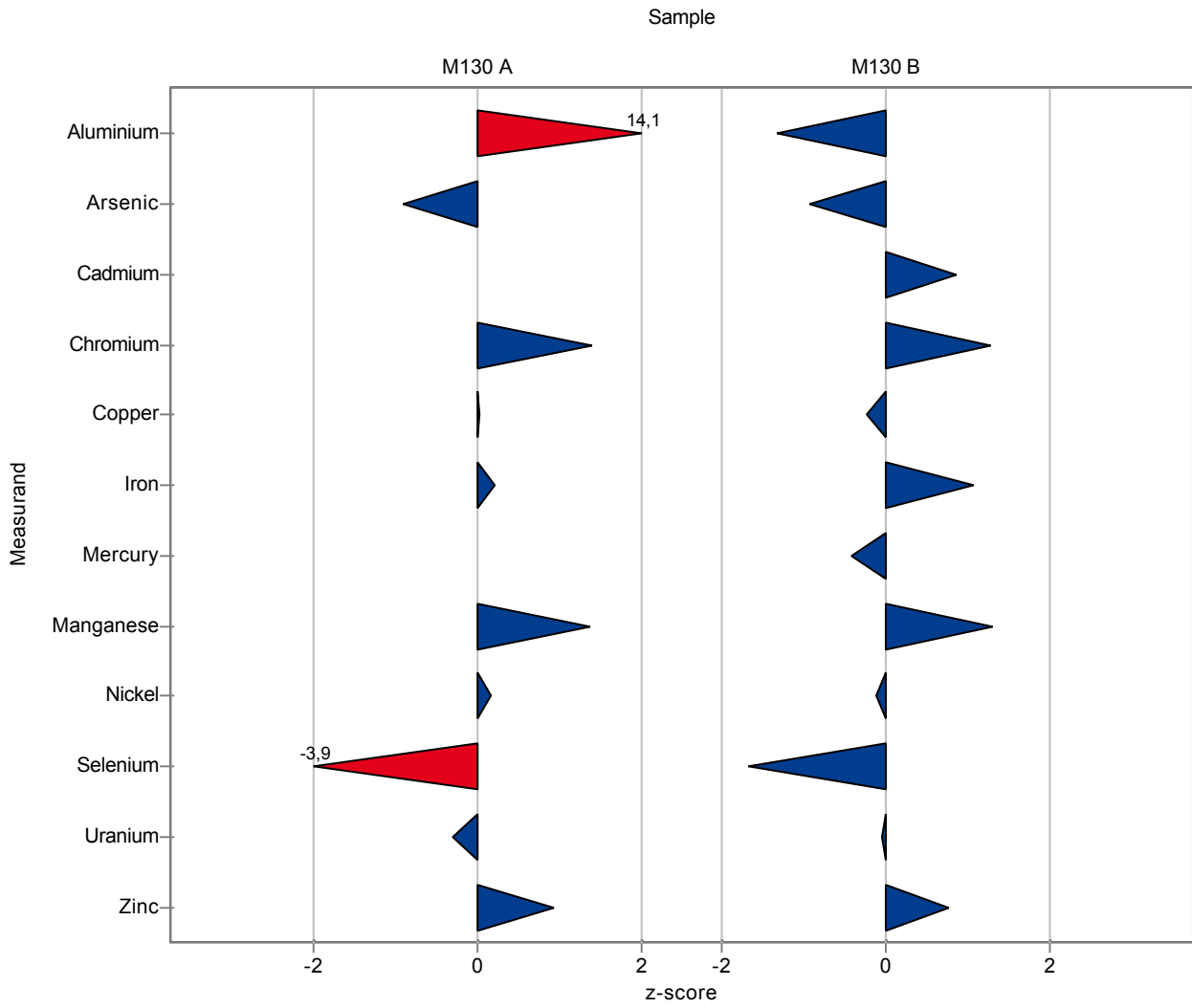
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	5,48	0,82	0,312	503	14,1
Arsenic	µg/l	0,491	± 0,0621	0,42	0,04	0,0774	85,6	-0,92
Cadmium	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,41	0,21	0,117	113	1,39
Copper	µg/l	5,97	± 0,302	5,98	0,9	0,471	100	0,02
Iron	µg/l	1,78	± 0,328	1,86	0,37	0,379	105	0,22
Mercury	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,61	0,26	0,167	110	1,37
Nickel	µg/l	0,33	± 0,0521	0,34	0,05	0,0549	103	0,18
Lead	µg/l	0,108	± 0,0108	<0,1 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	0,33	0,05	0,12	41,4	-3,89
Uranium	µg/l	2,99	± 0,155	2,92	0,29	0,219	97,8	-0,3
Zinc	µg/l	152	± 7,22	163,5	16,4	11,8	107	0,94

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	5,67	0,85	1,04	80,2	-1,34
Arsenic	µg/l	0,61	± 0,0737	0,52	0,05	0,0952	85,3	-0,94
Cadmium	µg/l	0,259	± 0,0157	0,28	0,04	0,0251	108	0,85
Chromium	µg/l	0,754	± 0,0545	0,84	0,13	0,068	111	1,27
Copper	µg/l	5,46	± 0,2	5,39	0,81	0,306	98,7	-0,23
Iron	µg/l	10,9	± 0,507	11,69	2,34	0,774	108	1,07
Mercury	µg/l	0,134	± 0,0242	0,12	0,01	0,0333	89,4	-0,43
Manganese	µg/l	2,48	± 0,111	2,69	0,27	0,162	108	1,3
Nickel	µg/l	0,545	± 0,0347	0,54	0,08	0,0384	99,1	-0,12
Lead	µg/l	0,123	± 0,0443	<0,1 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	2,05	0,31	0,359	77,1	-1,69
Uranium	µg/l	7,06	± 0,406	7,03	0,7	0,589	99,5	-0,06
Zinc	µg/l	84,6	± 3,99	89,6	9	6,51	106	0,77



The following results were achieved:

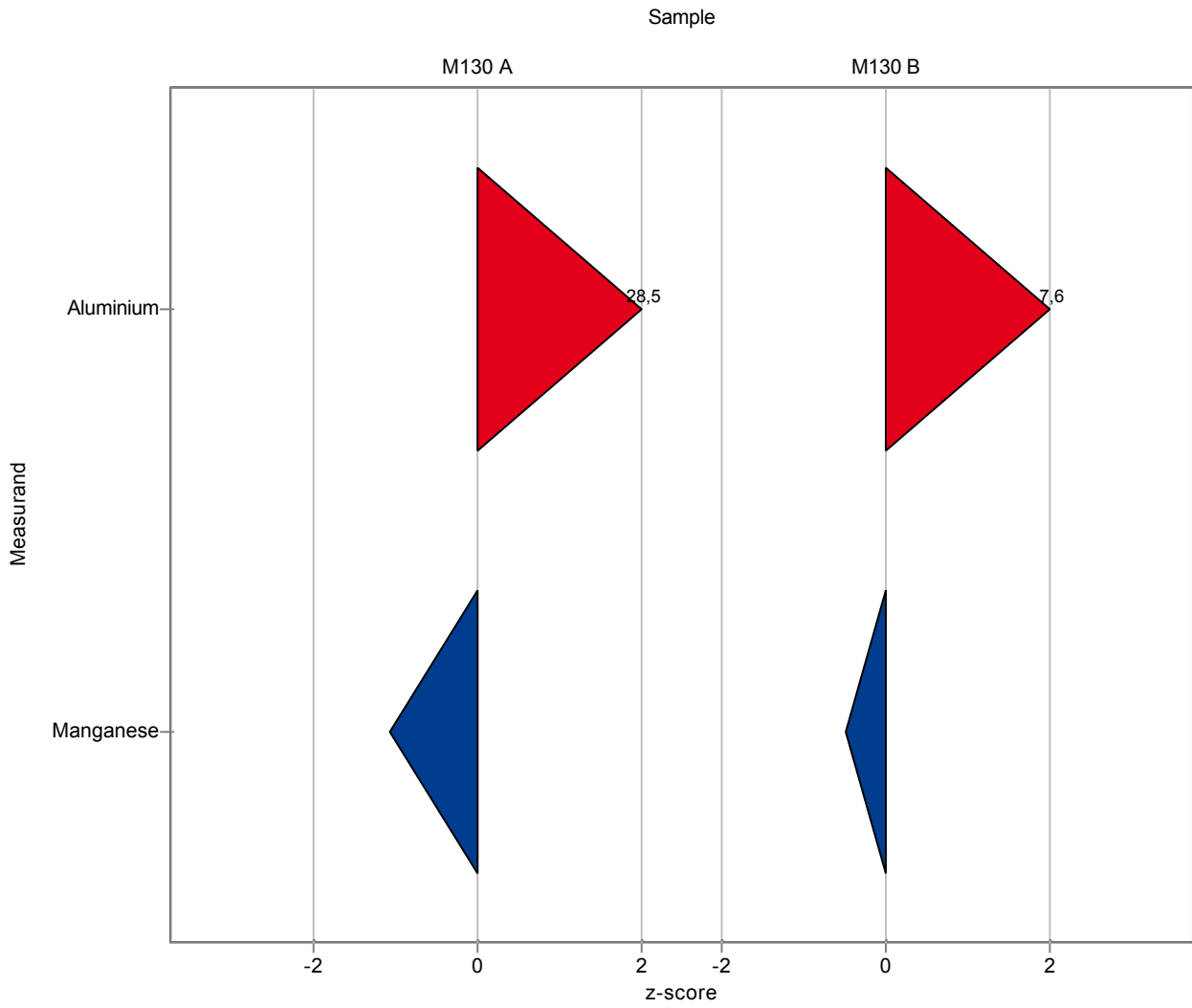
Sample: M130A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09 ± 0,312	10	2	0,312	918	28,5
Arsenic	µg/l	0,491 ± 0,0621	-	-	0,0774	-	-
Cadmium	µg/l	- ± -	-	-	-	-	-
Chromium	µg/l	1,25 ± 0,0829	-	-	0,117	-	-
Copper	µg/l	5,97 ± 0,302	-	-	0,471	-	-
Iron	µg/l	1,78 ± 0,328	<20 (LOQ)	-	0,379	-	-
Mercury	µg/l	- ± -	-	-	-	-	-
Manganese	µg/l	2,38 ± 0,115	2,2	0,4	0,167	92,4	-1,08
Nickel	µg/l	0,33 ± 0,0521	-	-	0,0549	-	-
Lead	µg/l	0,108 ± 0,0108	-	-	0,0102	-	-
Selenium	µg/l	0,797 ± 0,0961	-	-	0,12	-	-
Uranium	µg/l	2,99 ± 0,155	-	-	0,219	-	-
Zinc	µg/l	152 ± 7,22	-	-	11,8	-	-

Sample: M130B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07 ± 0,806	15	3	1,04	212	7,62
Arsenic	µg/l	0,61 ± 0,0737	-	-	0,0952	-	-
Cadmium	µg/l	0,259 ± 0,0157	-	-	0,0251	-	-
Chromium	µg/l	0,754 ± 0,0545	-	-	0,068	-	-
Copper	µg/l	5,46 ± 0,2	-	-	0,306	-	-
Iron	µg/l	10,9 ± 0,507	<20 (LOQ)	-	0,774	-	-
Mercury	µg/l	0,134 ± 0,0242	-	-	0,0333	-	-
Manganese	µg/l	2,48 ± 0,111	2,4	0,5	0,162	96,8	-0,49
Nickel	µg/l	0,545 ± 0,0347	-	-	0,0384	-	-
Lead	µg/l	0,123 ± 0,0443	-	-	0,0417	-	-
Selenium	µg/l	2,66 ± 0,235	-	-	0,359	-	-
Uranium	µg/l	7,06 ± 0,406	-	-	0,589	-	-
Zinc	µg/l	84,6 ± 3,99	-	-	6,51	-	-





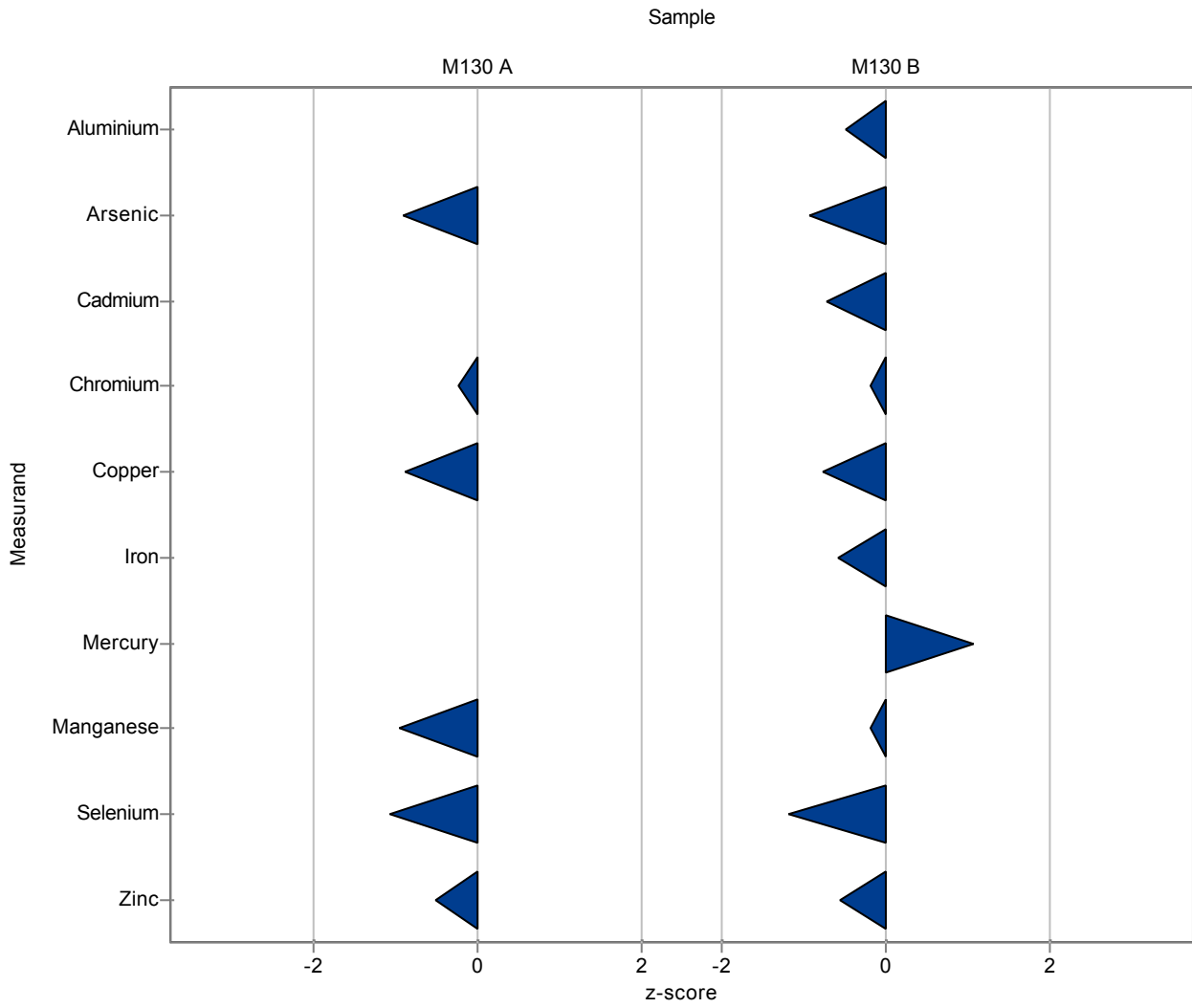
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	<3 (LOQ)	-	0,312	-	-
Arsenic	µg/l	0,491	± 0,0621	0,42	0,07	0,0774	85,6	-0,92
Cadmium	µg/l	-	± -	<0,04 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,22	0,16	0,117	97,9	-0,23
Copper	µg/l	5,97	± 0,302	5,55	0,79	0,471	93	-0,89
Iron	µg/l	1,78	± 0,328	<3 (LOQ)	-	0,379	-	-
Mercury	µg/l	-	± -	<0,16 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,22	0,35	0,167	93,3	-0,96
Nickel	µg/l	0,33	± 0,0521	<2 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	<1 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	0,67	0,16	0,12	84,1	-1,06
Uranium	µg/l	2,99	± 0,155	-	-	0,219	-	-
Zinc	µg/l	152	± 7,22	146,6	22,87	11,8	96,2	-0,5

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	6,55	1,13	1,04	92,7	-0,5
Arsenic	µg/l	0,61	± 0,0737	0,52	0,08	0,0952	85,3	-0,94
Cadmium	µg/l	0,259	± 0,0157	0,24	0,03	0,0251	92,8	-0,74
Chromium	µg/l	0,754	± 0,0545	0,74	0,1	0,068	98,2	-0,2
Copper	µg/l	5,46	± 0,2	5,22	0,75	0,306	95,6	-0,78
Iron	µg/l	10,9	± 0,507	10,41	2,22	0,774	95,9	-0,58
Mercury	µg/l	0,134	± 0,0242	0,17	0,04	0,0333	127	1,07
Manganese	µg/l	2,48	± 0,111	2,45	0,38	0,162	98,8	-0,18
Nickel	µg/l	0,545	± 0,0347	<2 (LOQ)	-	0,0384	-	-
Lead	µg/l	0,123	± 0,0443	<1 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	2,23	0,52	0,359	83,9	-1,19
Uranium	µg/l	7,06	± 0,406	-	-	0,589	-	-
Zinc	µg/l	84,6	± 3,99	80,82	12,61	6,51	95,6	-0,57



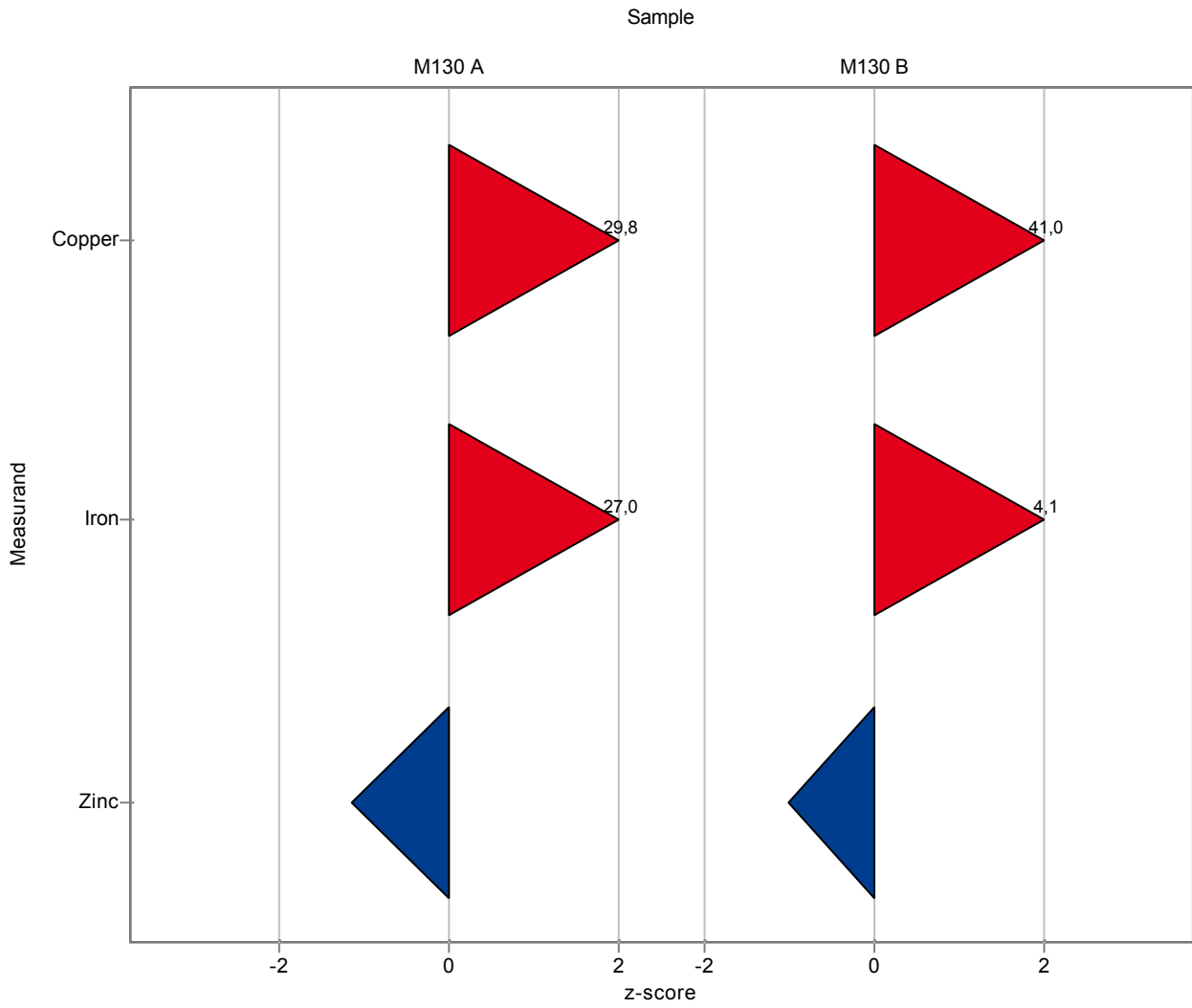
The following results were achieved:

Sample: M130A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09 ± 0,312	-	-	0,312	-	-
Arsenic	µg/l	0,491 ± 0,0621	-	-	0,0774	-	-
Cadmium	µg/l	- ± -	-	-	-	-	-
Chromium	µg/l	1,25 ± 0,0829	-	-	0,117	-	-
Copper	µg/l	5,97 ± 0,302	20	-	0,471	335	29,8
Iron	µg/l	1,78 ± 0,328	12	-	0,379	675	27
Mercury	µg/l	- ± -	-	-	-	-	-
Manganese	µg/l	2,38 ± 0,115	<5 (LOQ)	-	0,167	-	-
Nickel	µg/l	0,33 ± 0,0521	-	-	0,0549	-	-
Lead	µg/l	0,108 ± 0,0108	-	-	0,0102	-	-
Selenium	µg/l	0,797 ± 0,0961	-	-	0,12	-	-
Uranium	µg/l	2,99 ± 0,155	-	-	0,219	-	-
Zinc	µg/l	152 ± 7,22	139	-	11,8	91,2	-1,14

Sample: M130B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07 ± 0,806	-	-	1,04	-	-
Arsenic	µg/l	0,61 ± 0,0737	-	-	0,0952	-	-
Cadmium	µg/l	0,259 ± 0,0157	-	-	0,0251	-	-
Chromium	µg/l	0,754 ± 0,0545	-	-	0,068	-	-
Copper	µg/l	5,46 ± 0,2	18	-	0,306	330	41
Iron	µg/l	10,9 ± 0,507	14	-	0,774	129	4,06
Mercury	µg/l	0,134 ± 0,0242	-	-	0,0333	-	-
Manganese	µg/l	2,48 ± 0,111	<5 (LOQ)	-	0,162	-	-
Nickel	µg/l	0,545 ± 0,0347	-	-	0,0384	-	-
Lead	µg/l	0,123 ± 0,0443	-	-	0,0417	-	-
Selenium	µg/l	2,66 ± 0,235	-	-	0,359	-	-
Uranium	µg/l	7,06 ± 0,406	-	-	0,589	-	-
Zinc	µg/l	84,6 ± 3,99	78	-	6,51	92,2	-1,01



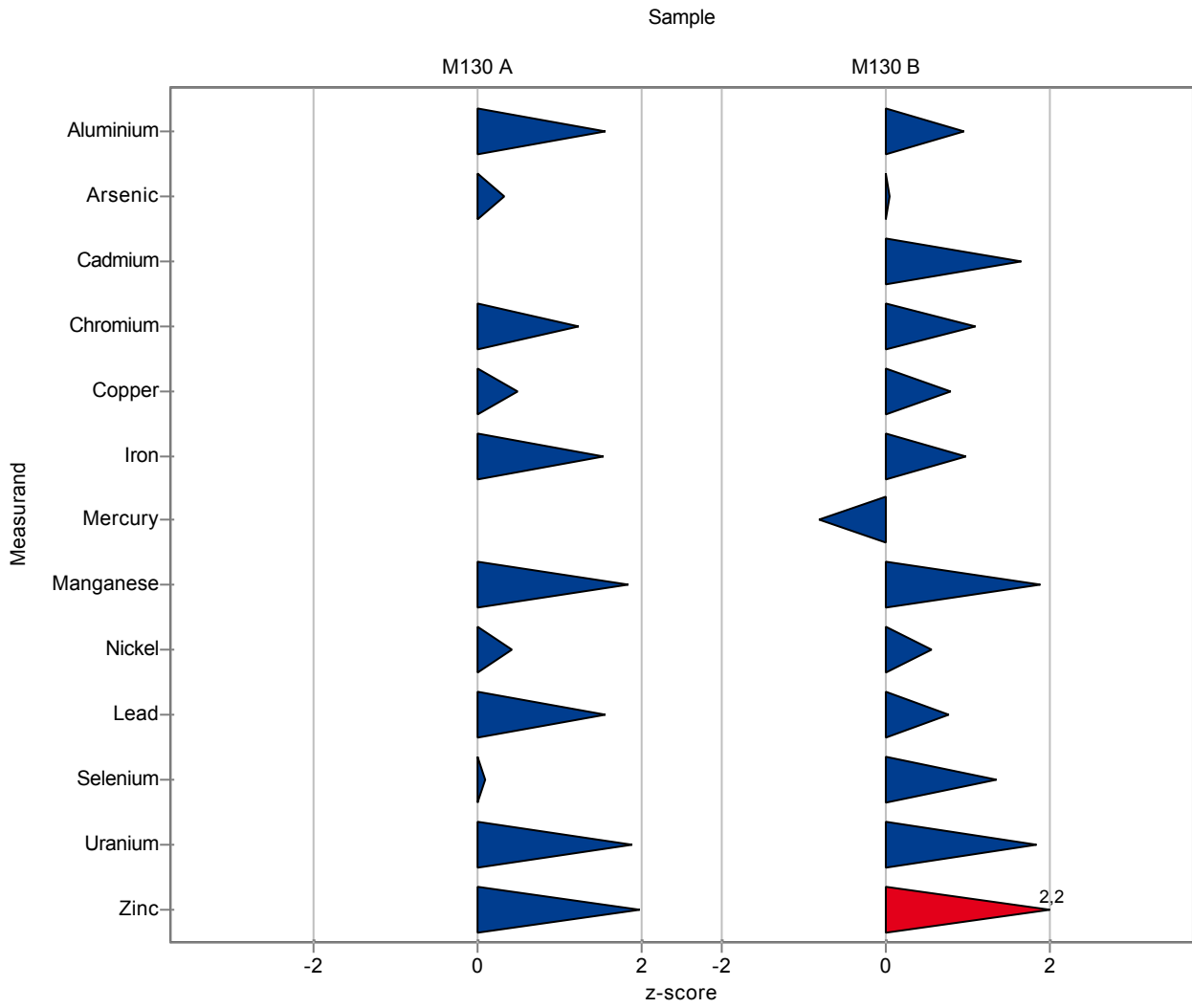
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	1,575	0,0473	0,312	145	1,56
Arsenic	µg/l	0,491	± 0,0621	0,517	0,0155	0,0774	105	0,34
Cadmium	µg/l	-	± -	0,017	0,0042	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,392	0,0418	0,117	112	1,24
Copper	µg/l	5,97	± 0,302	6,199	0,186	0,471	104	0,49
Iron	µg/l	1,78	± 0,328	2,36	0,0708	0,379	133	1,54
Mercury	µg/l	-	± -	<0,05 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,688	0,0806	0,167	113	1,84
Nickel	µg/l	0,33	± 0,0521	0,353	0,0106	0,0549	107	0,41
Lead	µg/l	0,108	± 0,0108	0,124	0,00372	0,0102	115	1,57
Selenium	µg/l	0,797	± 0,0961	0,807	0,0242	0,12	101	0,09
Uranium	µg/l	2,99	± 0,155	3,4	0,102	0,219	114	1,89
Zinc	µg/l	152	± 7,22	175,9	5,28	11,8	115	1,99

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	8,064	0,03	1,04	114	0,96
Arsenic	µg/l	0,61	± 0,0737	0,614	0,0184	0,0952	101	0,04
Cadmium	µg/l	0,259	± 0,0157	0,3	0,009	0,0251	116	1,65
Chromium	µg/l	0,754	± 0,0545	0,828	0,0248	0,068	110	1,09
Copper	µg/l	5,46	± 0,2	5,703	0,171	0,306	104	0,8
Iron	µg/l	10,9	± 0,507	11,609	0,348	0,774	107	0,97
Mercury	µg/l	0,134	± 0,0242	0,107	0,0122	0,0333	79,7	-0,82
Manganese	µg/l	2,48	± 0,111	2,783	0,0835	0,162	112	1,88
Nickel	µg/l	0,545	± 0,0347	0,566	0,017	0,0384	104	0,56
Lead	µg/l	0,123	± 0,0443	0,155	0,00465	0,0417	126	0,77
Selenium	µg/l	2,66	± 0,235	3,142	0,0943	0,359	118	1,35
Uranium	µg/l	7,06	± 0,406	8,15	0,245	0,589	115	1,84
Zinc	µg/l	84,6	± 3,99	98,623	2,959	6,51	117	2,16



The following results were achieved:

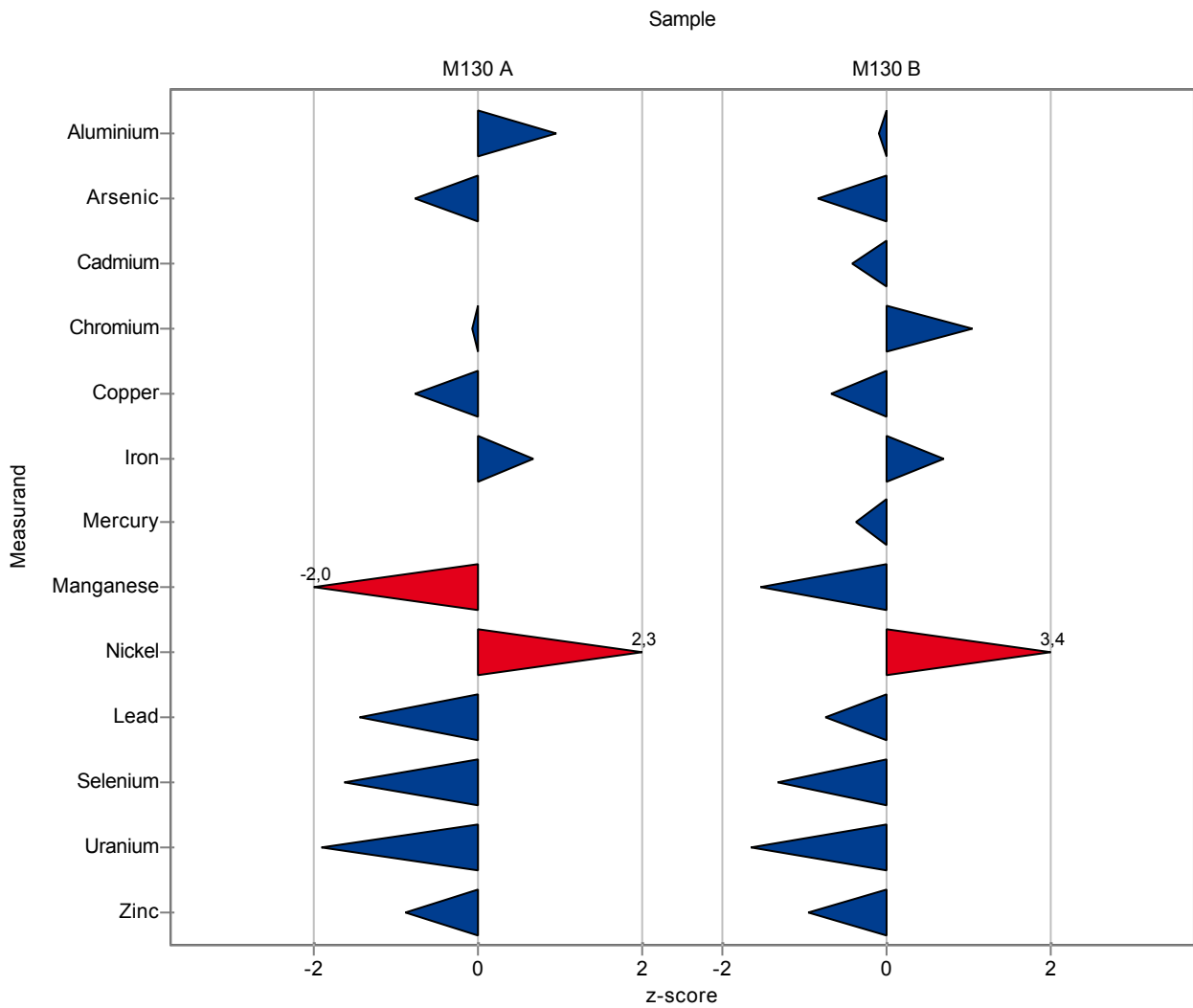
Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	1,39	0,07	0,312	128	0,96
Arsenic	µg/l	0,491	± 0,0621	0,431	0,009	0,0774	87,8	-0,77
Cadmium	µg/l	-	± -	0,0115	0,0009	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,24	0,029	0,117	99,5	-0,06
Copper	µg/l	5,97	± 0,302	5,61	0,36	0,471	94	-0,76
Iron	µg/l	1,78	± 0,328	2,04	0,24	0,379	115	0,69
Mercury	µg/l	-	± -	<0,05 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,04	0,13	0,167	85,7	-2,03
Nickel	µg/l	0,33	± 0,0521	0,459	0,061	0,0549	139	2,34
Lead	µg/l	0,108	± 0,0108	0,0935	0,0062	0,0102	86,5	-1,43
Selenium	µg/l	0,797	± 0,0961	0,602	0,031	0,12	75,6	-1,62
Uranium	µg/l	2,99	± 0,155	2,57	0,17	0,219	86,1	-1,9
Zinc	µg/l	152	± 7,22	142	4	11,8	93,1	-0,89

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	6,97	0,38	1,04	98,6	-0,09
Arsenic	µg/l	0,61	± 0,0737	0,529	0,032	0,0952	86,7	-0,85
Cadmium	µg/l	0,259	± 0,0157	0,248	0,009	0,0251	95,9	-0,42
Chromium	µg/l	0,754	± 0,0545	0,824	0,068	0,068	109	1,03
Copper	µg/l	5,46	± 0,2	5,25	0,17	0,306	96,2	-0,68
Iron	µg/l	10,9	± 0,507	11,39	0,97	0,774	105	0,69
Mercury	µg/l	0,134	± 0,0242	0,122	0,004	0,0333	90,9	-0,37
Manganese	µg/l	2,48	± 0,111	2,23	0,17	0,162	89,9	-1,54
Nickel	µg/l	0,545	± 0,0347	0,675	0,084	0,0384	124	3,39
Lead	µg/l	0,123	± 0,0443	0,0917	0,0128	0,0417	74,7	-0,74
Selenium	µg/l	2,66	± 0,235	2,18	0,1	0,359	82	-1,33
Uranium	µg/l	7,06	± 0,406	6,09	0,27	0,589	86,2	-1,65
Zinc	µg/l	84,6	± 3,99	78,3	3,1	6,51	92,6	-0,96





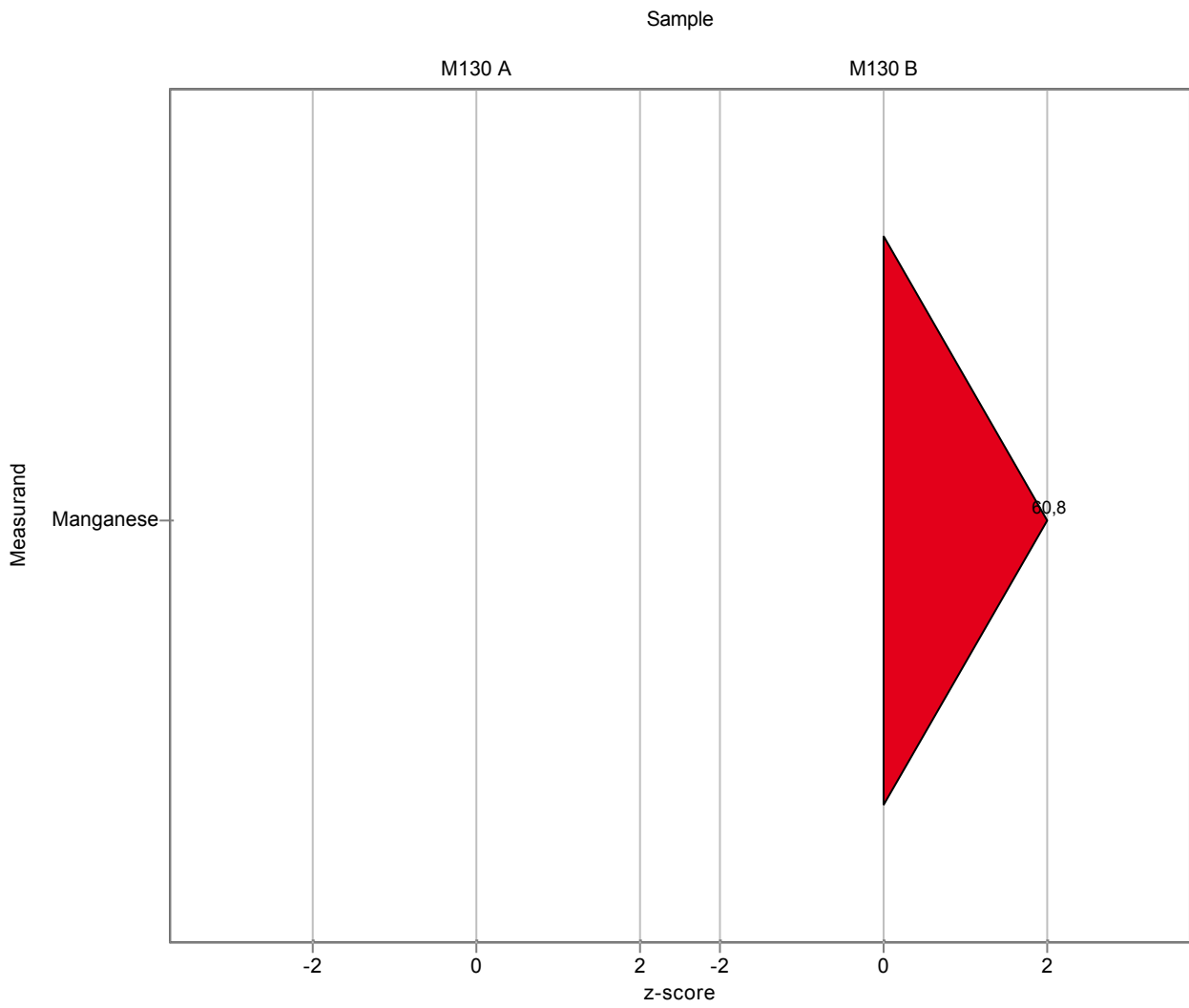
The following results were achieved:

Sample: M130A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09 ± 0,312	-	-	0,312	-	-
Arsenic	µg/l	0,491 ± 0,0621	-	-	0,0774	-	-
Cadmium	µg/l	- ± -	-	-	-	-	-
Chromium	µg/l	1,25 ± 0,0829	-	-	0,117	-	-
Copper	µg/l	5,97 ± 0,302	-	-	0,471	-	-
Iron	µg/l	1,78 ± 0,328	<20 (LOQ)	-	0,379	-	-
Mercury	µg/l	- ± -	-	-	-	-	-
Manganese	µg/l	2,38 ± 0,115	<5 (LOQ)	-	0,167	-	-
Nickel	µg/l	0,33 ± 0,0521	-	-	0,0549	-	-
Lead	µg/l	0,108 ± 0,0108	-	-	0,0102	-	-
Selenium	µg/l	0,797 ± 0,0961	-	-	0,12	-	-
Uranium	µg/l	2,99 ± 0,155	-	-	0,219	-	-
Zinc	µg/l	152 ± 7,22	-	-	11,8	-	-

Sample: M130B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07 ± 0,806	-	-	1,04	-	-
Arsenic	µg/l	0,61 ± 0,0737	-	-	0,0952	-	-
Cadmium	µg/l	0,259 ± 0,0157	-	-	0,0251	-	-
Chromium	µg/l	0,754 ± 0,0545	-	-	0,068	-	-
Copper	µg/l	5,46 ± 0,2	-	-	0,306	-	-
Iron	µg/l	10,9 ± 0,507	<20 (LOQ)	-	0,774	-	-
Mercury	µg/l	0,134 ± 0,0242	-	-	0,0333	-	-
Manganese	µg/l	2,48 ± 0,111	12,3	2	0,162	496	60,8
Nickel	µg/l	0,545 ± 0,0347	-	-	0,0384	-	-
Lead	µg/l	0,123 ± 0,0443	-	-	0,0417	-	-
Selenium	µg/l	2,66 ± 0,235	-	-	0,359	-	-
Uranium	µg/l	7,06 ± 0,406	-	-	0,589	-	-
Zinc	µg/l	84,6 ± 3,99	-	-	6,51	-	-



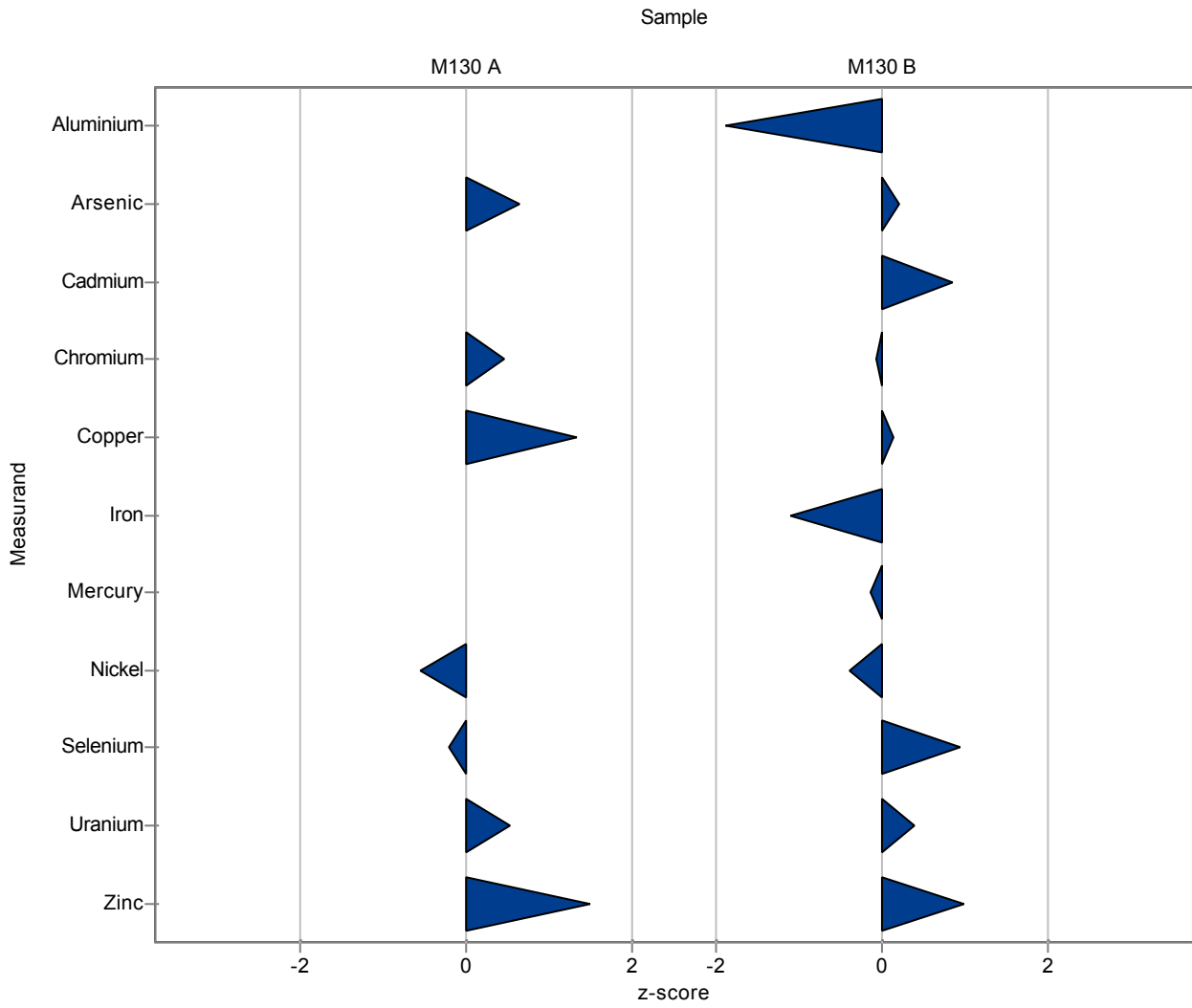
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	<0,5 (LOQ)	-	0,312	-	-
Arsenic	µg/l	0,491	± 0,0621	0,54	0,11	0,0774	110	0,64
Cadmium	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,3	0,3	0,117	104	0,46
Copper	µg/l	5,97	± 0,302	6,6	1,3	0,471	111	1,34
Iron	µg/l	1,78	± 0,328	<10 (LOQ)	-	0,379	-	-
Mercury	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	<5 (LOQ)	-	0,167	-	-
Nickel	µg/l	0,33	± 0,0521	0,3	0,07	0,0549	90,8	-0,55
Lead	µg/l	0,108	± 0,0108	<0,5 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	0,77	0,15	0,12	96,7	-0,22
Uranium	µg/l	2,99	± 0,155	3,1	0,7	0,219	104	0,52
Zinc	µg/l	152	± 7,22	170	30	11,8	112	1,49

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	5,1	1	1,04	72,2	-1,89
Arsenic	µg/l	0,61	± 0,0737	0,63	0,13	0,0952	103	0,21
Cadmium	µg/l	0,259	± 0,0157	0,28	0,06	0,0251	108	0,85
Chromium	µg/l	0,754	± 0,0545	0,75	0,15	0,068	99,5	-0,05
Copper	µg/l	5,46	± 0,2	5,5	1,1	0,306	101	0,13
Iron	µg/l	10,9	± 0,507	10	2	0,774	92,1	-1,11
Mercury	µg/l	0,134	± 0,0242	0,13	0,04	0,0333	96,8	-0,13
Manganese	µg/l	2,48	± 0,111	<5 (LOQ)	-	0,162	-	-
Nickel	µg/l	0,545	± 0,0347	0,53	0,13	0,0384	97,3	-0,38
Lead	µg/l	0,123	± 0,0443	<0,5 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	3	0,6	0,359	113	0,95
Uranium	µg/l	7,06	± 0,406	7,3	1,5	0,589	103	0,4
Zinc	µg/l	84,6	± 3,99	91	18	6,51	108	0,99



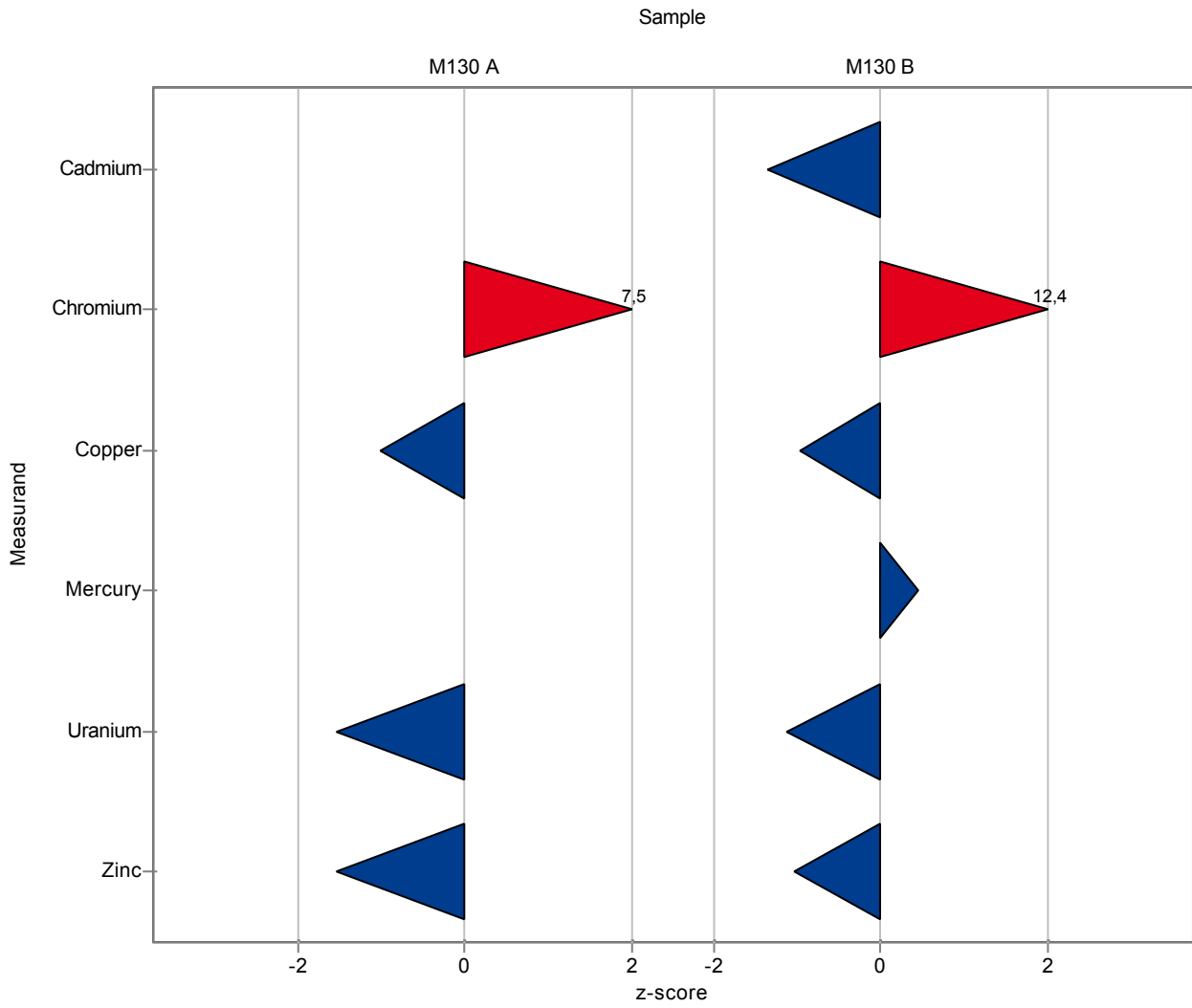
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	<10 (LOQ)	-	0,312	-	-
Arsenic	µg/l	0,491	± 0,0621	<1 (LOQ)	-	0,0774	-	-
Cadmium	µg/l	-	± -	<0,2 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	2,12	0,32	0,117	170	7,45
Copper	µg/l	5,97	± 0,302	5,49	0,82	0,471	92	-1,02
Iron	µg/l	1,78	± 0,328	<20 (LOQ)	-	0,379	-	-
Mercury	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	<20 (LOQ)	-	0,167	-	-
Nickel	µg/l	0,33	± 0,0521	<1 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	<1 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	-	-	0,12	-	-
Uranium	µg/l	2,99	± 0,155	2,65	0,4	0,219	88,7	-1,54
Zinc	µg/l	152	± 7,22	134,12	20,12	11,8	88	-1,56

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	<10 (LOQ)	-	1,04	-	-
Arsenic	µg/l	0,61	± 0,0737	<1 (LOQ)	-	0,0952	-	-
Cadmium	µg/l	0,259	± 0,0157	0,224	0,034	0,0251	86,6	-1,37
Chromium	µg/l	0,754	± 0,0545	1,6	0,24	0,068	212	12,4
Copper	µg/l	5,46	± 0,2	5,16	0,77	0,306	94,5	-0,98
Iron	µg/l	10,9	± 0,507	<20 (LOQ)	-	0,774	-	-
Mercury	µg/l	0,134	± 0,0242	0,1495	0,0224	0,0333	111	0,46
Manganese	µg/l	2,48	± 0,111	<20 (LOQ)	-	0,162	-	-
Nickel	µg/l	0,545	± 0,0347	<1 (LOQ)	-	0,0384	-	-
Lead	µg/l	0,123	± 0,0443	<1 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	-	-	0,359	-	-
Uranium	µg/l	7,06	± 0,406	6,39	0,96	0,589	90,5	-1,14
Zinc	µg/l	84,6	± 3,99	77,7	11,65	6,51	91,9	-1,05



The following results were achieved:

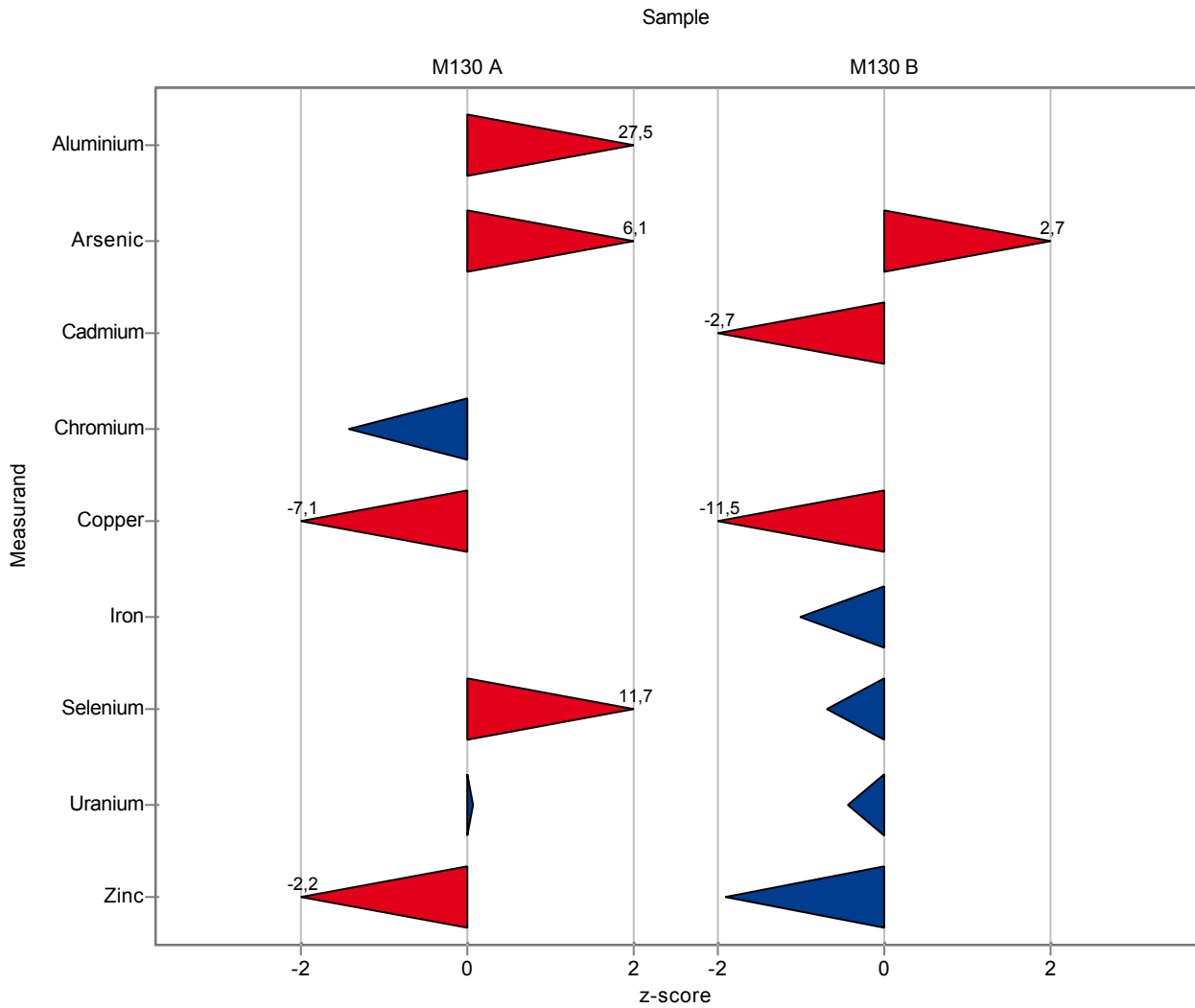
Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	9,67	1,45	0,312	888	27,5
Arsenic	µg/l	0,491	± 0,0621	0,96	0,14	0,0774	196	6,06
Cadmium	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,08	0,16	0,117	86,6	-1,42
Copper	µg/l	5,97	± 0,302	2,61	0,39	0,471	43,7	-7,13
Iron	µg/l	1,78	± 0,328	<10 (LOQ)	-	0,379	-	-
Mercury	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	<10 (LOQ)	-	0,167	-	-
Nickel	µg/l	0,33	± 0,0521	<1 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	<1 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	2,2	0,33	0,12	276	11,7
Uranium	µg/l	2,99	± 0,155	3	0,45	0,219	100	0,06
Zinc	µg/l	152	± 7,22	126,5	18,98	11,8	83	-2,2

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	<10 (LOQ)	-	1,04	-	-
Arsenic	µg/l	0,61	± 0,0737	0,87	0,13	0,0952	143	2,73
Cadmium	µg/l	0,259	± 0,0157	0,19	0,05	0,0251	73,5	-2,73
Chromium	µg/l	0,754	± 0,0545	<1 (LOQ)	-	0,068	-	-
Copper	µg/l	5,46	± 0,2	1,93	0,29	0,306	35,4	-11,5
Iron	µg/l	10,9	± 0,507	10,07	1,51	0,774	92,7	-1,02
Mercury	µg/l	0,134	± 0,0242	<0,1 (LOQ)	-	0,0333	-	-
Manganese	µg/l	2,48	± 0,111	<10 (LOQ)	-	0,162	-	-
Nickel	µg/l	0,545	± 0,0347	<1 (LOQ)	-	0,0384	-	-
Lead	µg/l	0,123	± 0,0443	<1 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	2,41	0,36	0,359	90,7	-0,69
Uranium	µg/l	7,06	± 0,406	6,81	1,02	0,589	96,4	-0,43
Zinc	µg/l	84,6	± 3,99	72,2	10,83	6,51	85,4	-1,9





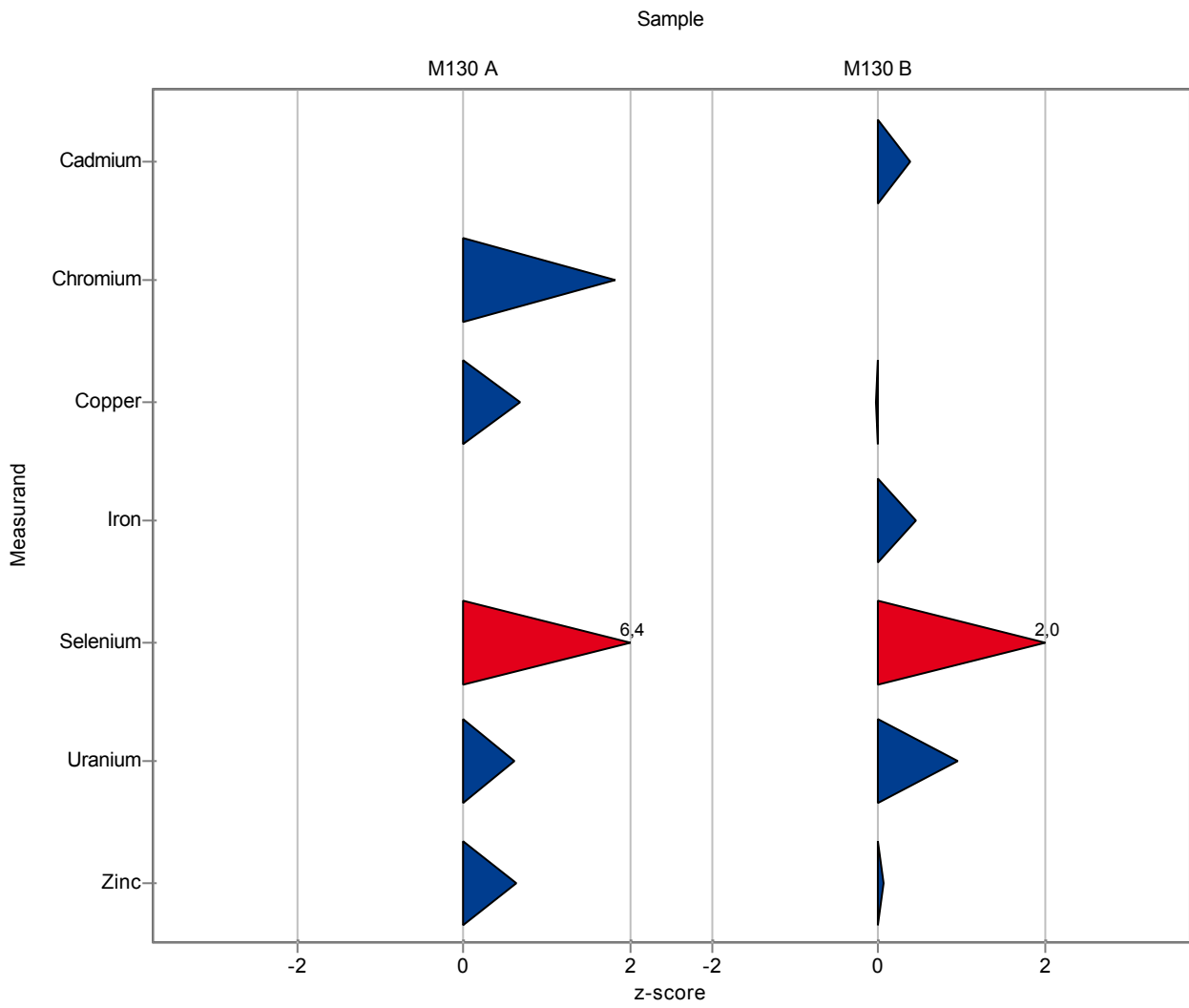
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	<1 (LOD)	-	0,312	-	-
Arsenic	µg/l	0,491	± 0,0621	<1 (LOQ)	-	0,0774	-	-
Cadmium	µg/l	-	± -	<0,014 (LOD)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,46	0,089	0,117	117	1,82
Copper	µg/l	5,97	± 0,302	6,29	0,1	0,471	105	0,68
Iron	µg/l	1,78	± 0,328	<10 (LOQ)	-	0,379	-	-
Mercury	µg/l	-	± -	<0,2 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	<10 (LOQ)	-	0,167	-	-
Nickel	µg/l	0,33	± 0,0521	<1 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	<0,11 (LOD)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	1,56	0,25	0,12	196	6,37
Uranium	µg/l	2,99	± 0,155	3,12	0,1	0,219	104	0,61
Zinc	µg/l	152	± 7,22	160	5,7	11,8	105	0,64

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	<1 (LOD)	-	1,04	-	-
Arsenic	µg/l	0,61	± 0,0737	<1 (LOQ)	-	0,0952	-	-
Cadmium	µg/l	0,259	± 0,0157	0,268	0,012	0,0251	104	0,38
Chromium	µg/l	0,754	± 0,0545	<1 (LOQ)	-	0,068	-	-
Copper	µg/l	5,46	± 0,2	5,45	0,08	0,306	99,8	-0,03
Iron	µg/l	10,9	± 0,507	11,2	1	0,774	103	0,44
Mercury	µg/l	0,134	± 0,0242	<0,2 (LOQ)	-	0,0333	-	-
Manganese	µg/l	2,48	± 0,111	<10 (LOQ)	-	0,162	-	-
Nickel	µg/l	0,545	± 0,0347	<1 (LOQ)	-	0,0384	-	-
Lead	µg/l	0,123	± 0,0443	<0,11 (LOD)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	3,38	0,13	0,359	127	2,01
Uranium	µg/l	7,06	± 0,406	7,63	0,08	0,589	108	0,96
Zinc	µg/l	84,6	± 3,99	84,9	6,2	6,51	100	0,05



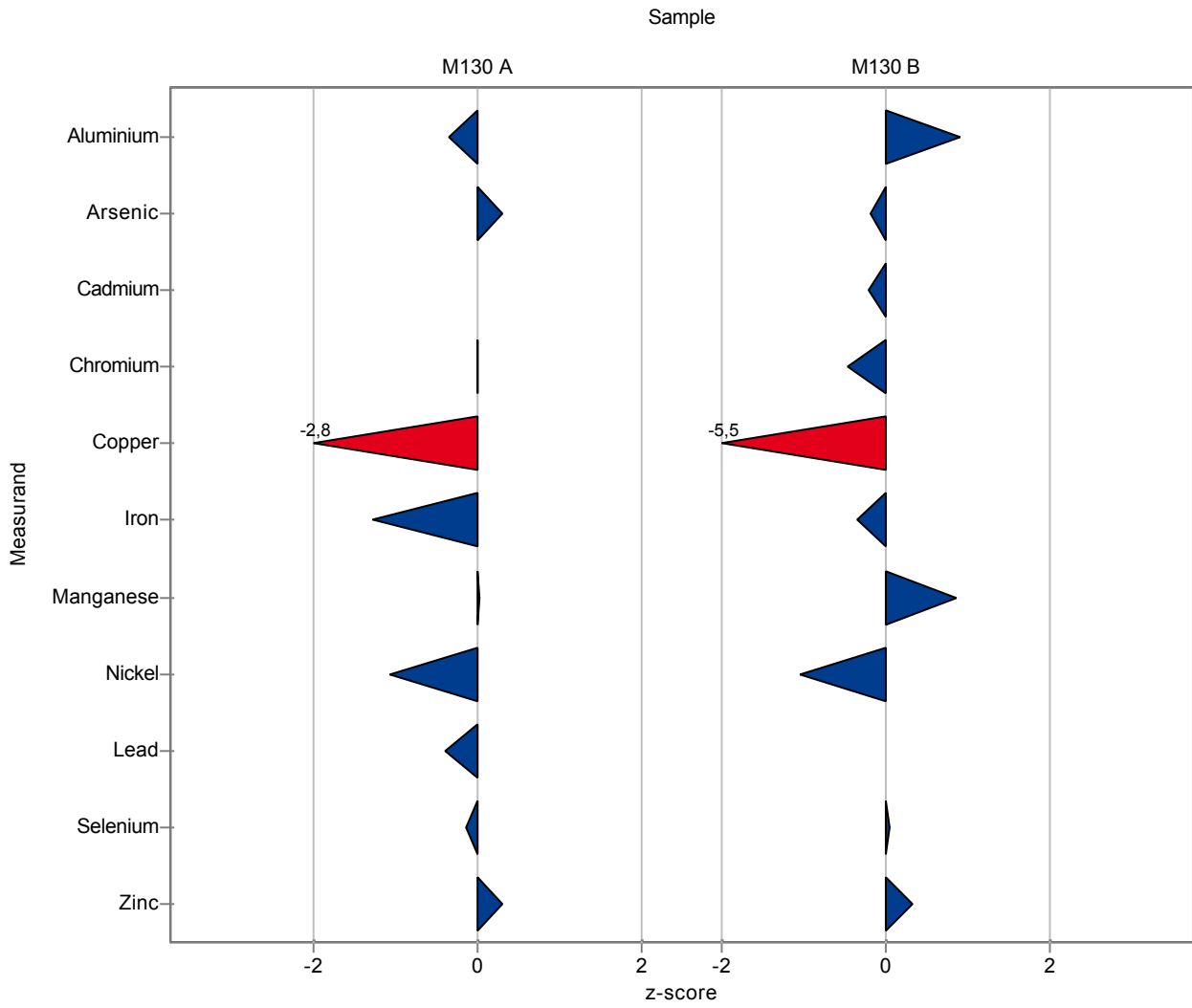
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	0,98	-	0,312	90	-0,35
Arsenic	µg/l	0,491	± 0,0621	0,514	-	0,0774	105	0,3
Cadmium	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,247	-	0,117	100	0,00
Copper	µg/l	5,97	± 0,302	4,642	-	0,471	77,8	-2,82
Iron	µg/l	1,78	± 0,328	1,298	-	0,379	73	-1,27
Mercury	µg/l	-	± -	-	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,383	-	0,167	100	0,02
Nickel	µg/l	0,33	± 0,0521	0,271	-	0,0549	82	-1,08
Lead	µg/l	0,108	± 0,0108	0,104	-	0,0102	96,2	-0,4
Selenium	µg/l	0,797	± 0,0961	0,781	-	0,12	98	-0,13
Uranium	µg/l	2,99	± 0,155	-	-	0,219	-	-
Zinc	µg/l	152	± 7,22	156,05	-	11,8	102	0,3

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	8,01	-	1,04	113	0,91
Arsenic	µg/l	0,61	± 0,0737	0,591	-	0,0952	96,9	-0,2
Cadmium	µg/l	0,259	± 0,0157	0,253	-	0,0251	97,9	-0,22
Chromium	µg/l	0,754	± 0,0545	0,722	-	0,068	95,8	-0,47
Copper	µg/l	5,46	± 0,2	3,77	-	0,306	69,1	-5,52
Iron	µg/l	10,9	± 0,507	10,59	-	0,774	97,5	-0,35
Mercury	µg/l	0,134	± 0,0242	-	-	0,0333	-	-
Manganese	µg/l	2,48	± 0,111	2,619	-	0,162	106	0,86
Nickel	µg/l	0,545	± 0,0347	0,504	-	0,0384	92,5	-1,06
Lead	µg/l	0,123	± 0,0443	<0,1 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	2,674	-	0,359	101	0,04
Uranium	µg/l	7,06	± 0,406	-	-	0,589	-	-
Zinc	µg/l	84,6	± 3,99	86,7	-	6,51	103	0,33



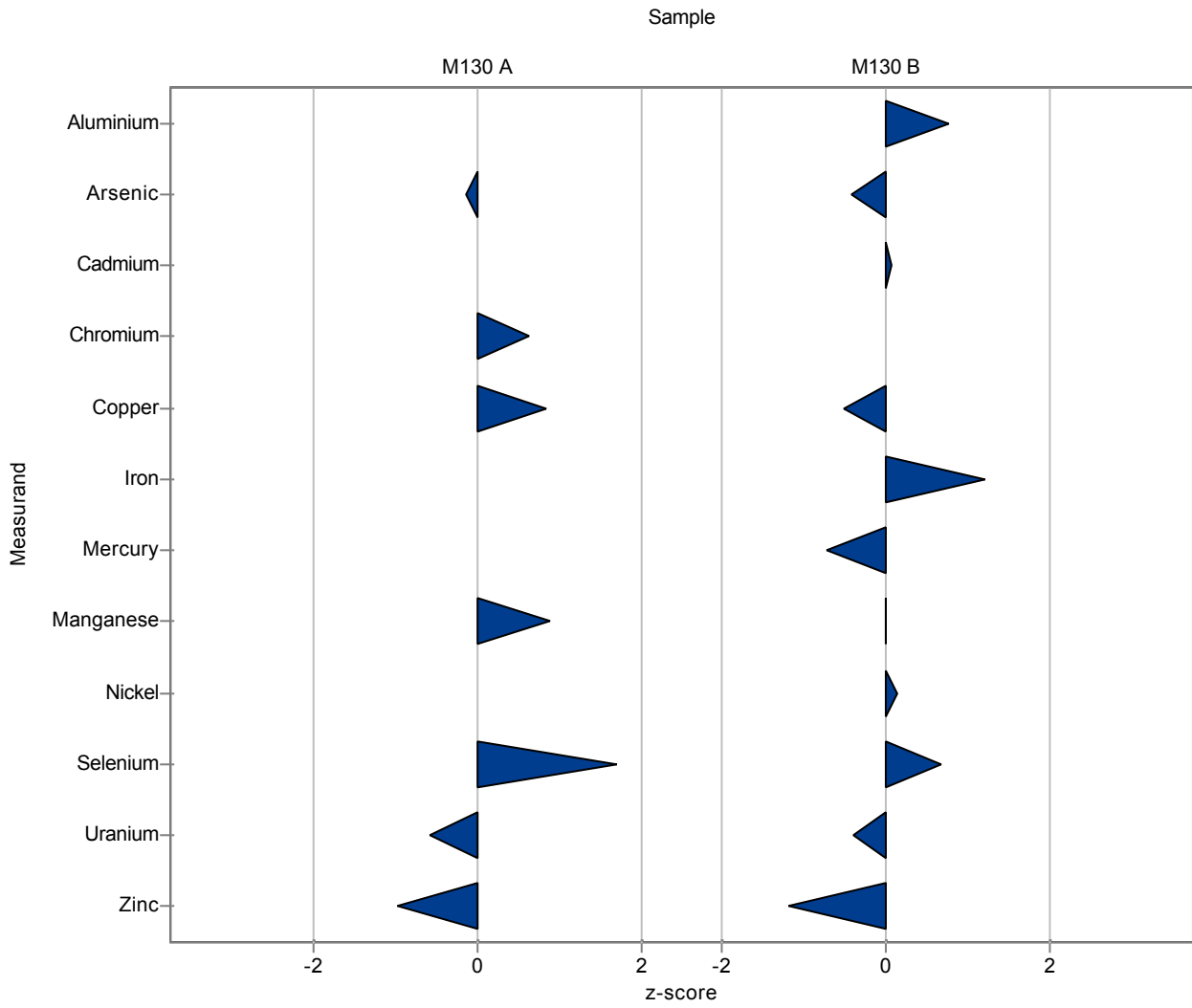
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	<5 (LOQ)	-	0,312	-	-
Arsenic	µg/l	0,491	± 0,0621	0,48	0,2	0,0774	97,8	-0,14
Cadmium	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,32	0,53	0,117	106	0,63
Copper	µg/l	5,97	± 0,302	6,37	0,64	0,471	107	0,85
Iron	µg/l	1,78	± 0,328	<5 (LOQ)	-	0,379	-	-
Mercury	µg/l	-	± -	<0,05 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,53	0,38	0,167	106	0,9
Nickel	µg/l	0,33	± 0,0521	<0,5 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	<0,5 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	1	0,5	0,12	126	1,7
Uranium	µg/l	2,99	± 0,155	2,86	0,29	0,219	95,8	-0,58
Zinc	µg/l	152	± 7,22	141	14	11,8	92,5	-0,97

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	7,87	2,36	1,04	111	0,77
Arsenic	µg/l	0,61	± 0,0737	0,57	0,23	0,0952	93,5	-0,42
Cadmium	µg/l	0,259	± 0,0157	0,26	0,12	0,0251	101	0,06
Chromium	µg/l	0,754	± 0,0545	<1 (LOQ)	-	0,068	-	-
Copper	µg/l	5,46	± 0,2	5,3	0,53	0,306	97,1	-0,52
Iron	µg/l	10,9	± 0,507	11,8	3,54	0,774	109	1,22
Mercury	µg/l	0,134	± 0,0242	0,11	0,05	0,0333	81,9	-0,73
Manganese	µg/l	2,48	± 0,111	2,48	0,25	0,162	100	0,00
Nickel	µg/l	0,545	± 0,0347	0,55	0,26	0,0384	101	0,14
Lead	µg/l	0,123	± 0,0443	<0,5 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	2,9	0,73	0,359	109	0,67
Uranium	µg/l	7,06	± 0,406	6,82	0,69	0,589	96,6	-0,41
Zinc	µg/l	84,6	± 3,99	76,8	7,7	6,51	90,8	-1,19



The following results were achieved:

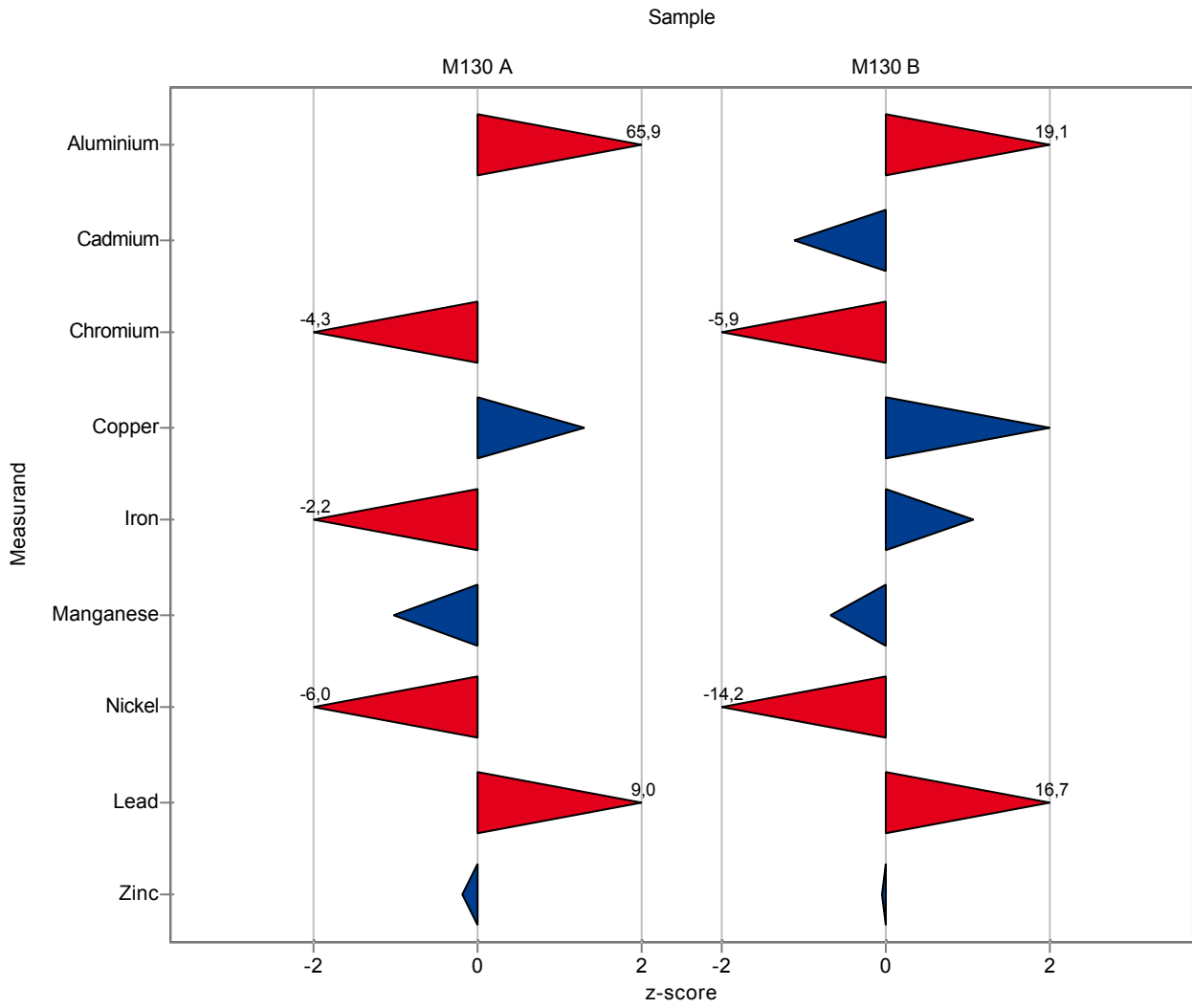
Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	21,65	0,01263	0,312	1990	65,9
Arsenic	µg/l	0,491	± 0,0621	-	-	0,0774	-	-
Cadmium	µg/l	-	± -	0,05	3,1052	-	-	-
Chromium	µg/l	1,25	± 0,0829	0,74	0,212	0,117	59,4	-4,32
Copper	µg/l	5,97	± 0,302	6,59	0,0976	0,471	110	1,32
Iron	µg/l	1,78	± 0,328	0,96	0,5361	0,379	54	-2,16
Mercury	µg/l	-	± -	-	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,21	0,0567	0,167	92,8	-1,02
Nickel	µg/l	0,33	± 0,0521	0	-	0,0549	0	-6,01
Lead	µg/l	0,108	± 0,0108	0,2	3,1797	0,0102	185	9,05
Selenium	µg/l	0,797	± 0,0961	-	-	0,12	-	-
Uranium	µg/l	2,99	± 0,155	-	-	0,219	-	-
Zinc	µg/l	152	± 7,22	150,2	0,082	11,8	98,5	-0,19

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	26,93	0,0096	1,04	381	19,1
Arsenic	µg/l	0,61	± 0,0737	-	-	0,0952	-	-
Cadmium	µg/l	0,259	± 0,0157	0,23	0,8558	0,0251	89	-1,13
Chromium	µg/l	0,754	± 0,0545	0,35	0,5429	0,068	46,4	-5,93
Copper	µg/l	5,46	± 0,2	6,07	0,1679	0,306	111	1,99
Iron	µg/l	10,9	± 0,507	11,69	0,3851	0,774	108	1,07
Mercury	µg/l	0,134	± 0,0242	-	-	0,0333	-	-
Manganese	µg/l	2,48	± 0,111	2,37	0,0462	0,162	95,6	-0,68
Nickel	µg/l	0,545	± 0,0347	0	-	0,0384	0	-14,2
Lead	µg/l	0,123	± 0,0443	0,82	1,3783	0,0417	668	16,7
Selenium	µg/l	2,66	± 0,235	-	-	0,359	-	-
Uranium	µg/l	7,06	± 0,406	-	-	0,589	-	-
Zinc	µg/l	84,6	± 3,99	84,24	0,0728	6,51	99,6	-0,05





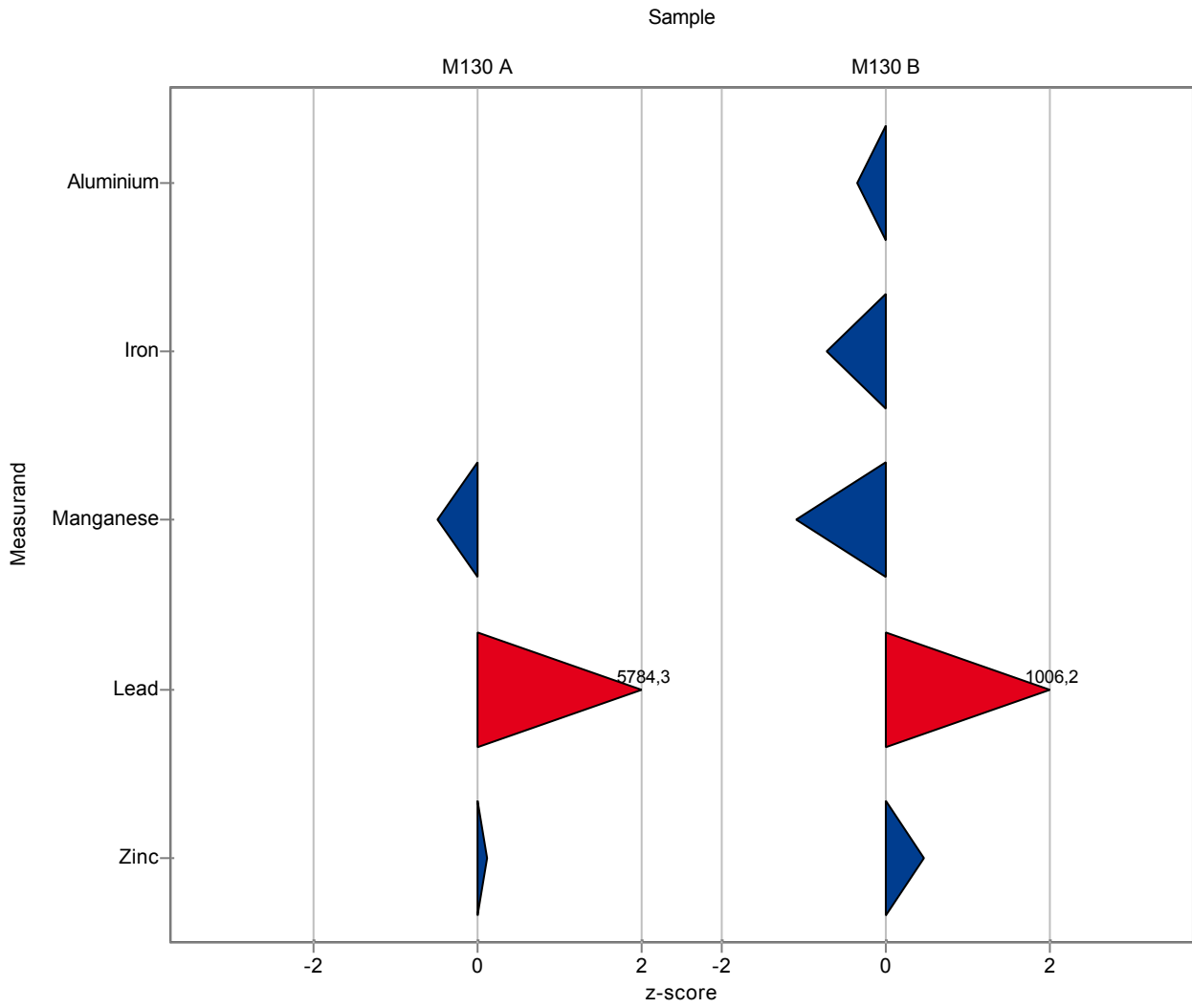
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	<5 (LOQ)	-	0,312	-	-
Arsenic	µg/l	0,491	± 0,0621	-	-	0,0774	-	-
Cadmium	µg/l	-	± -	<2 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	<2 (LOQ)	-	0,117	-	-
Copper	µg/l	5,97	± 0,302	<2 (LOQ)	-	0,471	-	-
Iron	µg/l	1,78	± 0,328	<5 (LOQ)	-	0,379	-	-
Mercury	µg/l	-	± -	-	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,3	0,2	0,167	96,6	-0,48
Nickel	µg/l	0,33	± 0,0521	<2 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	58,9	3,9	0,0102	54500	5780
Selenium	µg/l	0,797	± 0,0961	-	-	0,12	-	-
Uranium	µg/l	2,99	± 0,155	-	-	0,219	-	-
Zinc	µg/l	152	± 7,22	154	18	11,8	101	0,13

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	6,7	0,54	1,04	94,8	-0,35
Arsenic	µg/l	0,61	± 0,0737	-	-	0,0952	-	-
Cadmium	µg/l	0,259	± 0,0157	<2 (LOQ)	-	0,0251	-	-
Chromium	µg/l	0,754	± 0,0545	<2 (LOQ)	-	0,068	-	-
Copper	µg/l	5,46	± 0,2	<2 (LOQ)	-	0,306	-	-
Iron	µg/l	10,9	± 0,507	10,3	1	0,774	94,9	-0,72
Mercury	µg/l	0,134	± 0,0242	-	-	0,0333	-	-
Manganese	µg/l	2,48	± 0,111	2,3	0,2	0,162	92,8	-1,11
Nickel	µg/l	0,545	± 0,0347	<2 (LOQ)	-	0,0384	-	-
Lead	µg/l	0,123	± 0,0443	42,1	2,8	0,0417	34300	1010
Selenium	µg/l	2,66	± 0,235	-	-	0,359	-	-
Uranium	µg/l	7,06	± 0,406	-	-	0,589	-	-
Zinc	µg/l	84,6	± 3,99	87,5	10,6	6,51	103	0,45



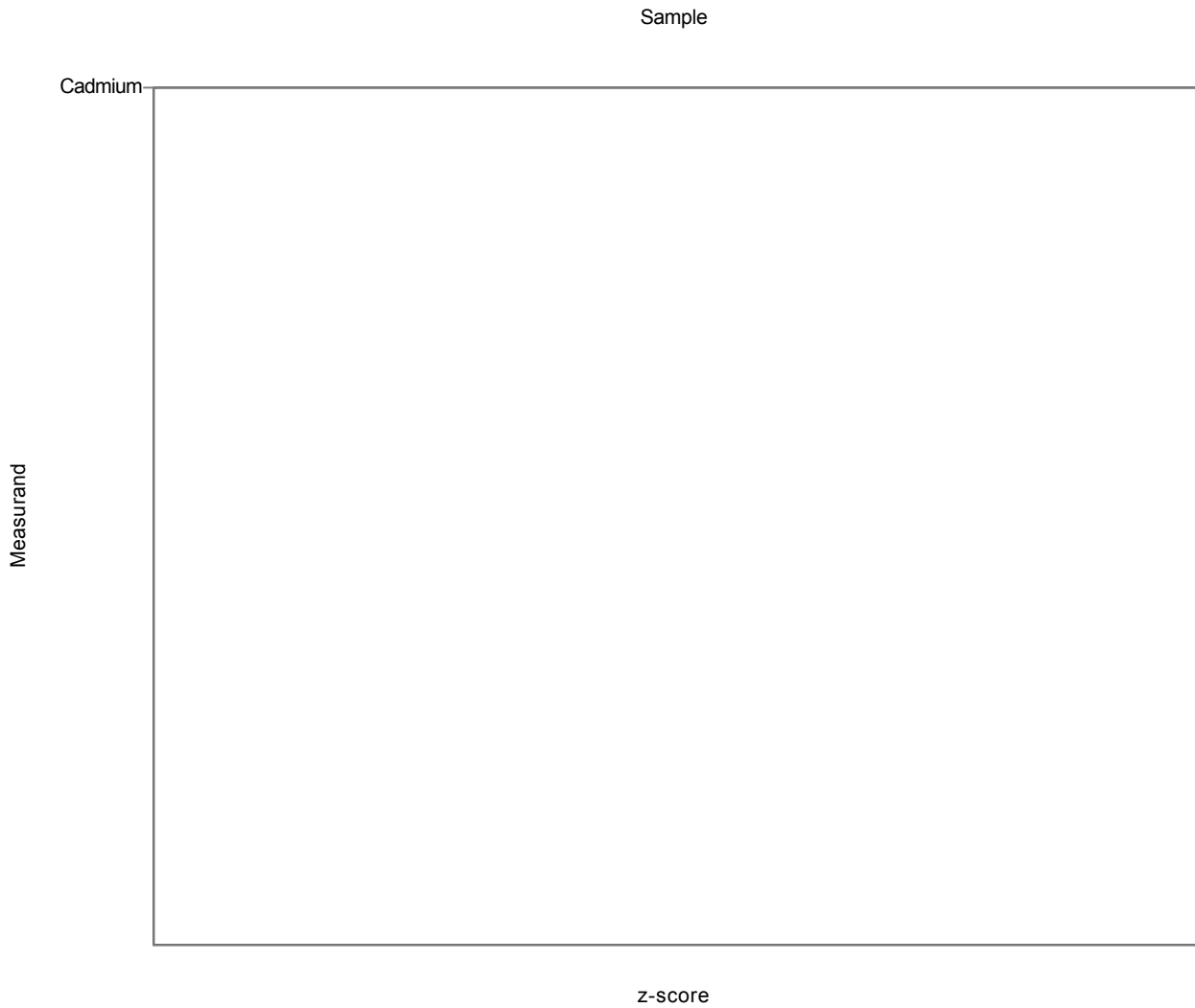
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	<20 (LOQ)	-	0,312	-	-
Arsenic	µg/l	0,491	± 0,0621	-	-	0,0774	-	-
Cadmium	µg/l	-	± -	-	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	-	-	0,117	-	-
Copper	µg/l	5,97	± 0,302	-	-	0,471	-	-
Iron	µg/l	1,78	± 0,328	<20 (LOQ)	-	0,379	-	-
Mercury	µg/l	-	± -	-	-	-	-	-
Manganese	µg/l	2,38	± 0,115	<20 (LOQ)	-	0,167	-	-
Nickel	µg/l	0,33	± 0,0521	-	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	-	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	-	-	0,12	-	-
Uranium	µg/l	2,99	± 0,155	-	-	0,219	-	-
Zinc	µg/l	152	± 7,22	-	-	11,8	-	-

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	<20 (LOQ)	-	1,04	-	-
Arsenic	µg/l	0,61	± 0,0737	-	-	0,0952	-	-
Cadmium	µg/l	0,259	± 0,0157	-	-	0,0251	-	-
Chromium	µg/l	0,754	± 0,0545	-	-	0,068	-	-
Copper	µg/l	5,46	± 0,2	-	-	0,306	-	-
Iron	µg/l	10,9	± 0,507	<20 (LOQ)	-	0,774	-	-
Mercury	µg/l	0,134	± 0,0242	-	-	0,0333	-	-
Manganese	µg/l	2,48	± 0,111	<20 (LOQ)	-	0,162	-	-
Nickel	µg/l	0,545	± 0,0347	-	-	0,0384	-	-
Lead	µg/l	0,123	± 0,0443	-	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	-	-	0,359	-	-
Uranium	µg/l	7,06	± 0,406	-	-	0,589	-	-
Zinc	µg/l	84,6	± 3,99	-	-	6,51	-	-



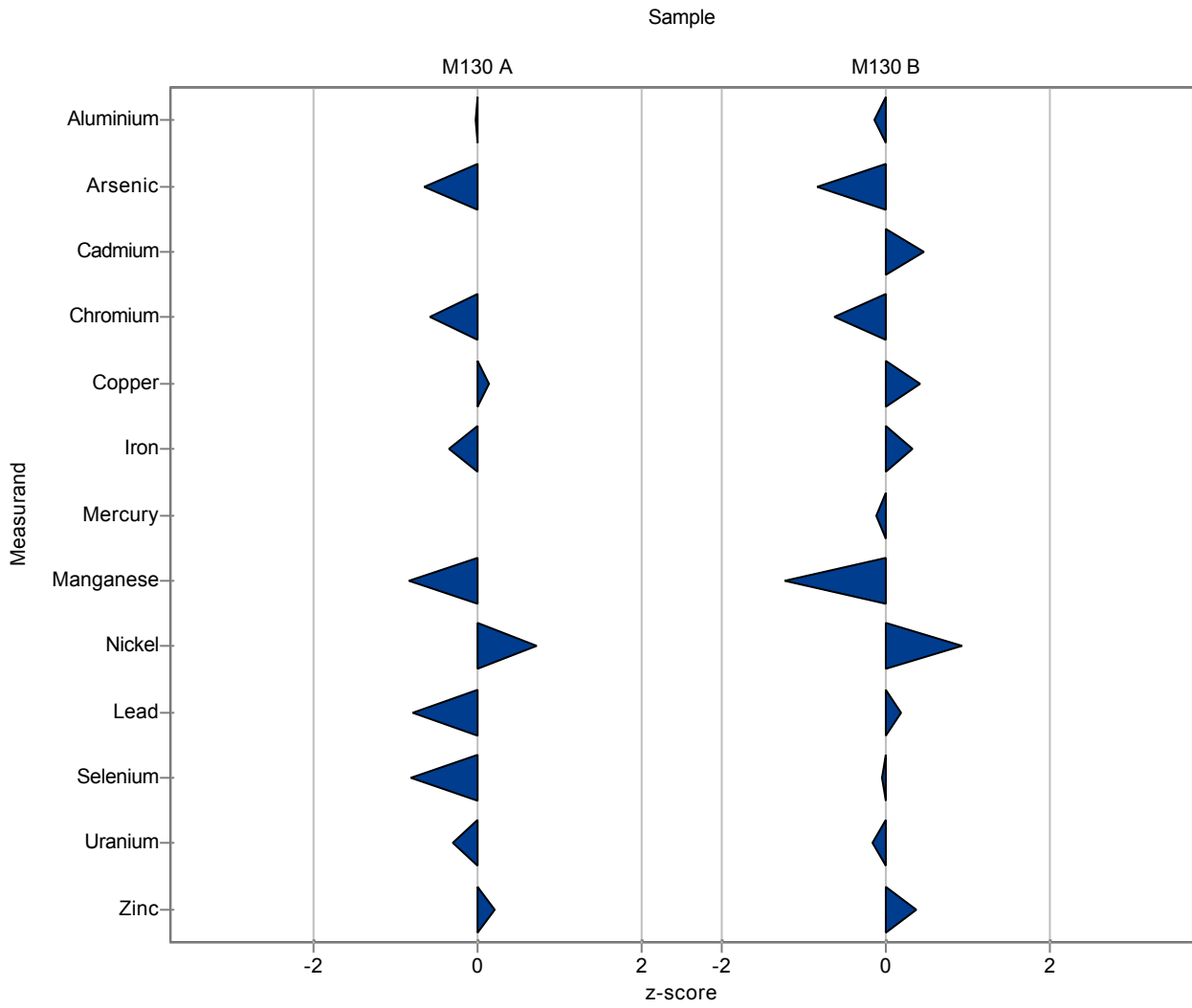
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	1,08	0,16	0,312	99,2	-0,03
Arsenic	µg/l	0,491	± 0,0621	0,44	0,08	0,0774	89,6	-0,66
Cadmium	µg/l	-	± -	<0,02 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,18	0,12	0,117	94,7	-0,57
Copper	µg/l	5,97	± 0,302	6,04	0,6	0,471	101	0,15
Iron	µg/l	1,78	± 0,328	1,65	0,25	0,379	92,8	-0,34
Mercury	µg/l	-	± -	<0,02 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,24	0,22	0,167	94,1	-0,84
Nickel	µg/l	0,33	± 0,0521	0,37	0,04	0,0549	112	0,72
Lead	µg/l	0,108	± 0,0108	0,1	0,02	0,0102	92,5	-0,79
Selenium	µg/l	0,797	± 0,0961	0,7	0,1	0,12	87,9	-0,81
Uranium	µg/l	2,99	± 0,155	2,92	0,3	0,219	97,8	-0,3
Zinc	µg/l	152	± 7,22	155	15	11,8	102	0,21

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	6,91	1	1,04	97,8	-0,15
Arsenic	µg/l	0,61	± 0,0737	0,53	0,1	0,0952	86,9	-0,84
Cadmium	µg/l	0,259	± 0,0157	0,27	0,04	0,0251	104	0,46
Chromium	µg/l	0,754	± 0,0545	0,71	0,07	0,068	94,2	-0,64
Copper	µg/l	5,46	± 0,2	5,59	0,6	0,306	102	0,43
Iron	µg/l	10,9	± 0,507	11,1	1,67	0,774	102	0,31
Mercury	µg/l	0,134	± 0,0242	0,13	0,03	0,0333	96,8	-0,13
Manganese	µg/l	2,48	± 0,111	2,28	0,23	0,162	92	-1,23
Nickel	µg/l	0,545	± 0,0347	0,58	0,06	0,0384	106	0,92
Lead	µg/l	0,123	± 0,0443	0,13	0,02	0,0417	106	0,17
Selenium	µg/l	2,66	± 0,235	2,64	0,4	0,359	99,3	-0,05
Uranium	µg/l	7,06	± 0,406	6,97	0,7	0,589	98,7	-0,16
Zinc	µg/l	84,6	± 3,99	87	9	6,51	103	0,37



The following results were achieved:

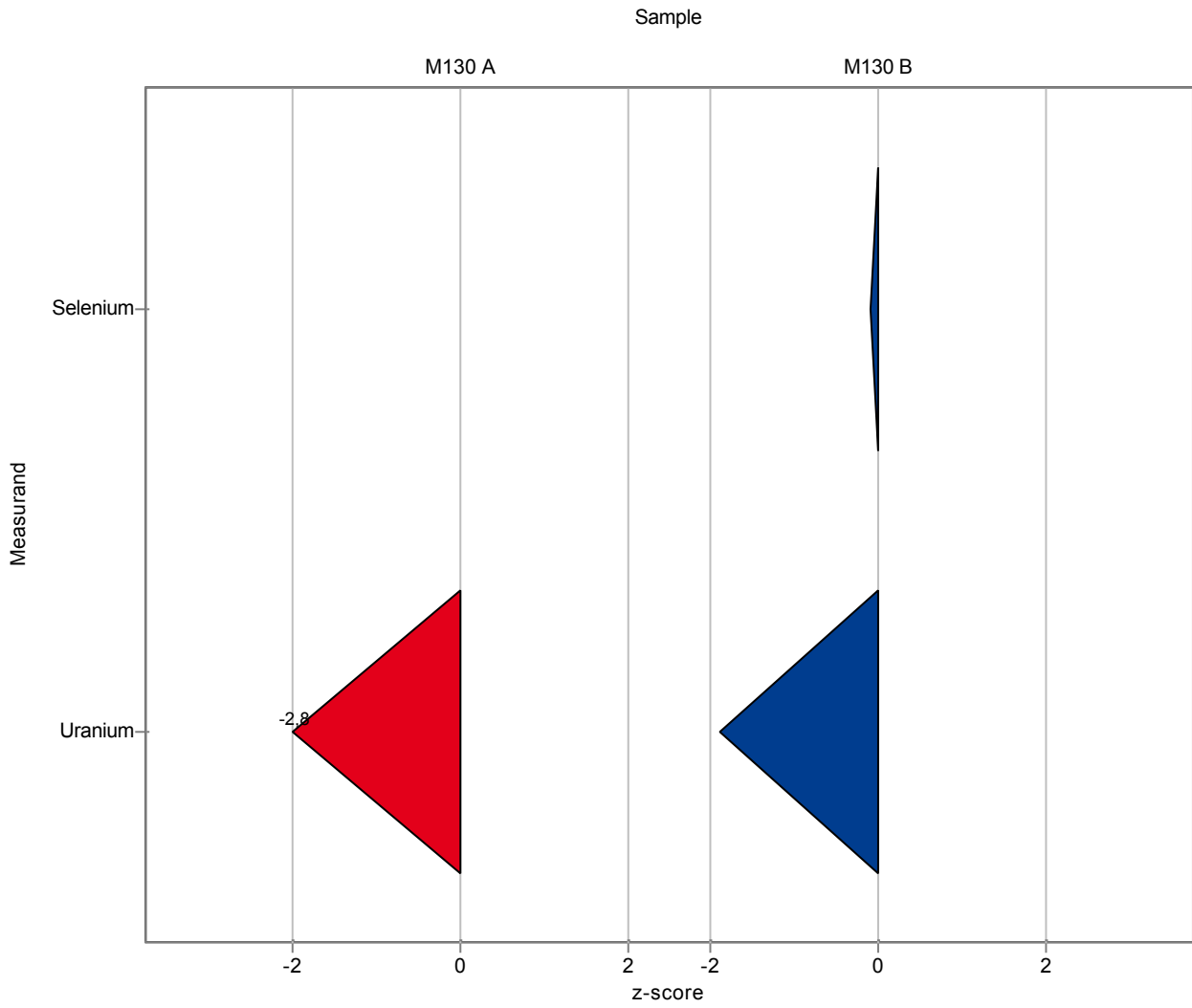
Sample: M130A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09 ± 0,312	-	-	0,312	-	-
Arsenic	µg/l	0,491 ± 0,0621	<1 (LOQ)	-	0,0774	-	-
Cadmium	µg/l	- ± -	<0,2 (LOQ)	-	-	-	-
Chromium	µg/l	1,25 ± 0,0829	-	-	0,117	-	-
Copper	µg/l	5,97 ± 0,302	-	-	0,471	-	-
Iron	µg/l	1,78 ± 0,328	-	-	0,379	-	-
Mercury	µg/l	- ± -	-	-	-	-	-
Manganese	µg/l	2,38 ± 0,115	<5 (LOQ)	-	0,167	-	-
Nickel	µg/l	0,33 ± 0,0521	<2 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108 ± 0,0108	<1 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797 ± 0,0961	<1 (LOQ)	-	0,12	-	-
Uranium	µg/l	2,99 ± 0,155	2,37	-	0,219	79,4	-2,82
Zinc	µg/l	152 ± 7,22	-	-	11,8	-	-

Sample: M130B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07 ± 0,806	-	-	1,04	-	-
Arsenic	µg/l	0,61 ± 0,0737	<1 (LOQ)	-	0,0952	-	-
Cadmium	µg/l	0,259 ± 0,0157	<0,2 (LOQ)	-	0,0251	-	-
Chromium	µg/l	0,754 ± 0,0545	-	-	0,068	-	-
Copper	µg/l	5,46 ± 0,2	-	-	0,306	-	-
Iron	µg/l	10,9 ± 0,507	-	-	0,774	-	-
Mercury	µg/l	0,134 ± 0,0242	-	-	0,0333	-	-
Manganese	µg/l	2,48 ± 0,111	<5 (LOQ)	-	0,162	-	-
Nickel	µg/l	0,545 ± 0,0347	<2 (LOQ)	-	0,0384	-	-
Lead	µg/l	0,123 ± 0,0443	<1 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66 ± 0,235	2,62	-	0,359	98,6	-0,11
Uranium	µg/l	7,06 ± 0,406	5,95	-	0,589	84,2	-1,89
Zinc	µg/l	84,6 ± 3,99	-	-	6,51	-	-





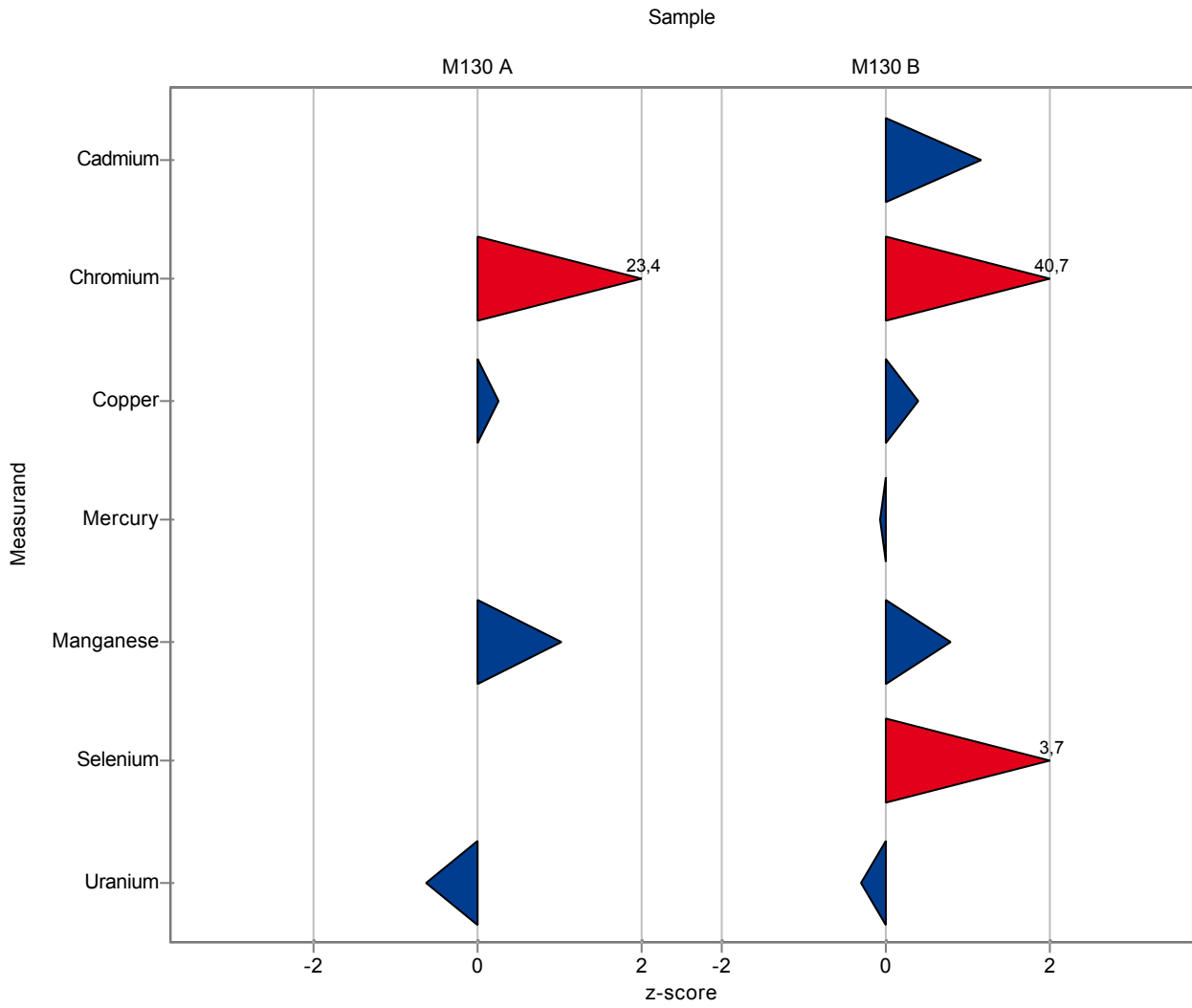
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	-	-	0,312	-	-
Arsenic	µg/l	0,491	± 0,0621	<0,5 (LOQ)	-	0,0774	-	-
Cadmium	µg/l	-	± -	<0,08 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	3,995	0,2	0,117	320	23,4
Copper	µg/l	5,97	± 0,302	6,098	0,366	0,471	102	0,27
Iron	µg/l	1,78	± 0,328	-	-	0,379	-	-
Mercury	µg/l	-	± -	0,035	0,002	-	-	-
Manganese	µg/l	2,38	± 0,115	2,553	0,46	0,167	107	1,03
Nickel	µg/l	0,33	± 0,0521	<1 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	<0,5 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	<2 (LOQ)	-	0,12	-	-
Uranium	µg/l	2,99	± 0,155	2,849	0,256	0,219	95,4	-0,63
Zinc	µg/l	152	± 7,22	-	-	11,8	-	-

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	-	-	1,04	-	-
Arsenic	µg/l	0,61	± 0,0737	<0,5 (LOQ)	-	0,0952	-	-
Cadmium	µg/l	0,259	± 0,0157	0,288	0,012	0,0251	111	1,17
Chromium	µg/l	0,754	± 0,0545	3,521	0,176	0,068	467	40,7
Copper	µg/l	5,46	± 0,2	5,576	0,335	0,306	102	0,38
Iron	µg/l	10,9	± 0,507	-	-	0,774	-	-
Mercury	µg/l	0,134	± 0,0242	0,132	0,009	0,0333	98,3	-0,07
Manganese	µg/l	2,48	± 0,111	2,607	0,469	0,162	105	0,79
Nickel	µg/l	0,545	± 0,0347	<1 (LOQ)	-	0,0384	-	-
Lead	µg/l	0,123	± 0,0443	<0,5 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	3,973	0,477	0,359	149	3,66
Uranium	µg/l	7,06	± 0,406	6,876	0,619	0,589	97,4	-0,32
Zinc	µg/l	84,6	± 3,99	-	-	6,51	-	-



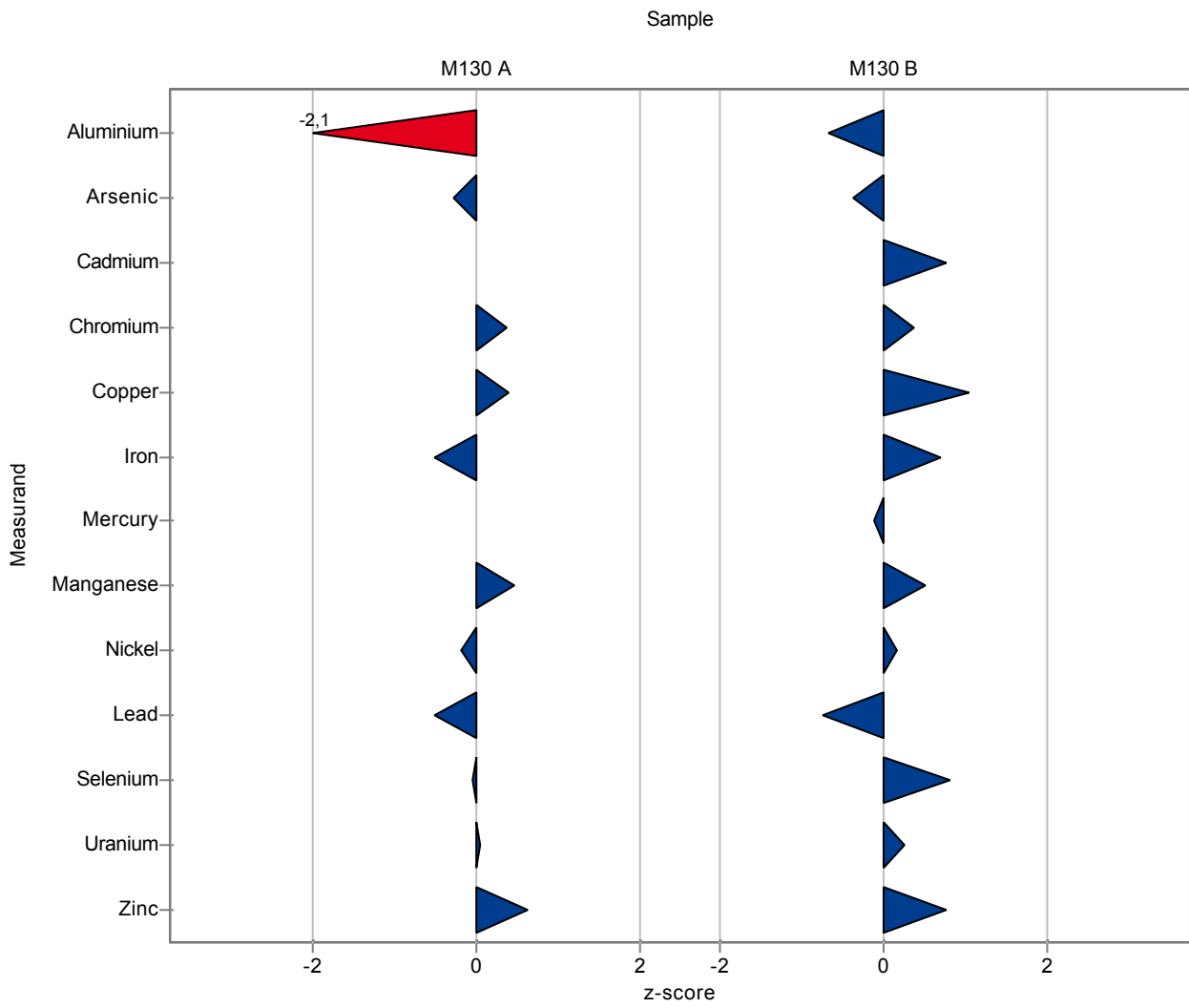
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	0,448	0,0448	0,312	41,1	-2,05
Arsenic	µg/l	0,491	± 0,0621	0,47	0,047	0,0774	95,8	-0,27
Cadmium	µg/l	-	± -	0,0118	0,018	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,29	0,129	0,117	103	0,37
Copper	µg/l	5,97	± 0,302	6,16	0,31	0,471	103	0,4
Iron	µg/l	1,78	± 0,328	1,59	0,159	0,379	89,4	-0,5
Mercury	µg/l	-	± -	<0,016 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,46	0,246	0,167	103	0,48
Nickel	µg/l	0,33	± 0,0521	0,32	0,032	0,0549	96,9	-0,19
Lead	µg/l	0,108	± 0,0108	0,103	0,015	0,0102	95,3	-0,5
Selenium	µg/l	0,797	± 0,0961	0,793	0,0793	0,12	99,5	-0,03
Uranium	µg/l	2,99	± 0,155	3	0,15	0,219	100	0,06
Zinc	µg/l	152	± 7,22	160	8	11,8	105	0,64

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	6,35	0,635	1,04	89,8	-0,69
Arsenic	µg/l	0,61	± 0,0737	0,573	0,0573	0,0952	94	-0,39
Cadmium	µg/l	0,259	± 0,0157	0,278	0,0278	0,0251	108	0,78
Chromium	µg/l	0,754	± 0,0545	0,778	0,0778	0,068	103	0,36
Copper	µg/l	5,46	± 0,2	5,78	0,298	0,306	106	1,05
Iron	µg/l	10,9	± 0,507	11,4	0,57	0,774	105	0,7
Mercury	µg/l	0,134	± 0,0242	0,13	0,013	0,0333	96,8	-0,13
Manganese	µg/l	2,48	± 0,111	2,56	0,256	0,162	103	0,5
Nickel	µg/l	0,545	± 0,0347	0,551	0,0551	0,0384	101	0,17
Lead	µg/l	0,123	± 0,0443	0,091	0,014	0,0417	74,2	-0,76
Selenium	µg/l	2,66	± 0,235	2,95	0,295	0,359	111	0,81
Uranium	µg/l	7,06	± 0,406	7,21	0,361	0,589	102	0,25
Zinc	µg/l	84,6	± 3,99	89,5	4,48	6,51	106	0,76



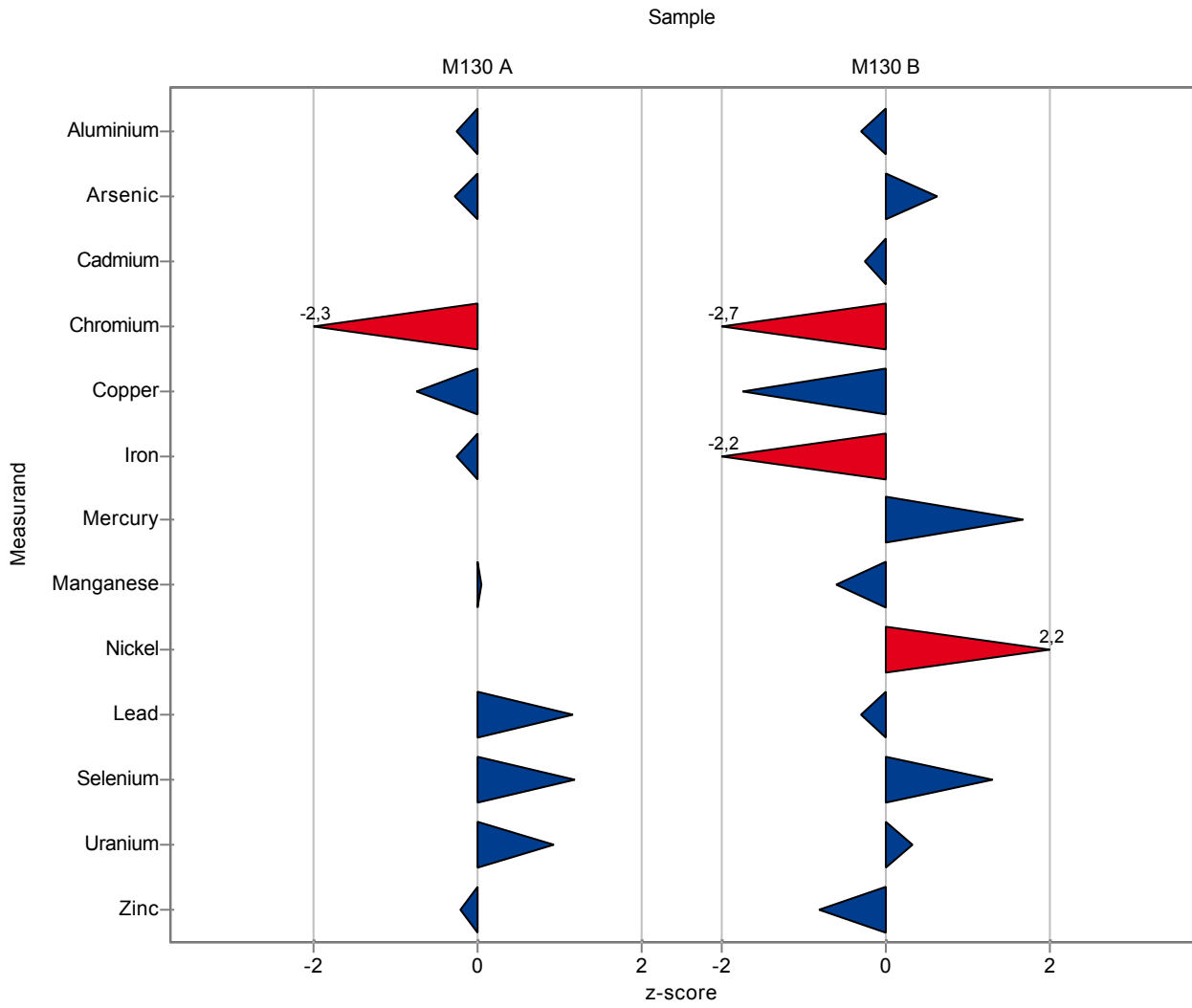
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	1,01	0,8	0,312	92,7	-0,25
Arsenic	µg/l	0,491	± 0,0621	0,47	0,3	0,0774	95,8	-0,27
Cadmium	µg/l	-	± -	0,011	0,003	-	-	-
Chromium	µg/l	1,25	± 0,0829	0,98	0,05	0,117	78,6	-2,27
Copper	µg/l	5,97	± 0,302	5,62	0,6	0,471	94,1	-0,74
Iron	µg/l	1,78	± 0,328	1,68	1	0,379	94,5	-0,26
Mercury	µg/l	-	± -	<0,02 (LOD)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,39	0,5	0,167	100	0,06
Nickel	µg/l	0,33	± 0,0521	<0,5 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	0,12	0,06	0,0102	111	1,17
Selenium	µg/l	0,797	± 0,0961	0,94	0,5	0,12	118	1,2
Uranium	µg/l	2,99	± 0,155	3,19	0,5	0,219	107	0,93
Zinc	µg/l	152	± 7,22	150	15	11,8	98,4	-0,21

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	6,75	2	1,04	95,5	-0,3
Arsenic	µg/l	0,61	± 0,0737	0,67	0,3	0,0952	110	0,63
Cadmium	µg/l	0,259	± 0,0157	0,252	0,025	0,0251	97,5	-0,26
Chromium	µg/l	0,754	± 0,0545	0,57	0,03	0,068	75,6	-2,7
Copper	µg/l	5,46	± 0,2	4,92	0,5	0,306	90,1	-1,76
Iron	µg/l	10,9	± 0,507	9,17	1	0,774	84,5	-2,18
Mercury	µg/l	0,134	± 0,0242	0,19	0,02	0,0333	142	1,67
Manganese	µg/l	2,48	± 0,111	2,38	0,5	0,162	96	-0,62
Nickel	µg/l	0,545	± 0,0347	0,63	0,2	0,0384	116	2,22
Lead	µg/l	0,123	± 0,0443	0,11	0,06	0,0417	89,6	-0,3
Selenium	µg/l	2,66	± 0,235	3,13	0,5	0,359	118	1,31
Uranium	µg/l	7,06	± 0,406	7,25	0,5	0,589	103	0,32
Zinc	µg/l	84,6	± 3,99	79,26	8	6,51	93,7	-0,81



The following results were achieved:

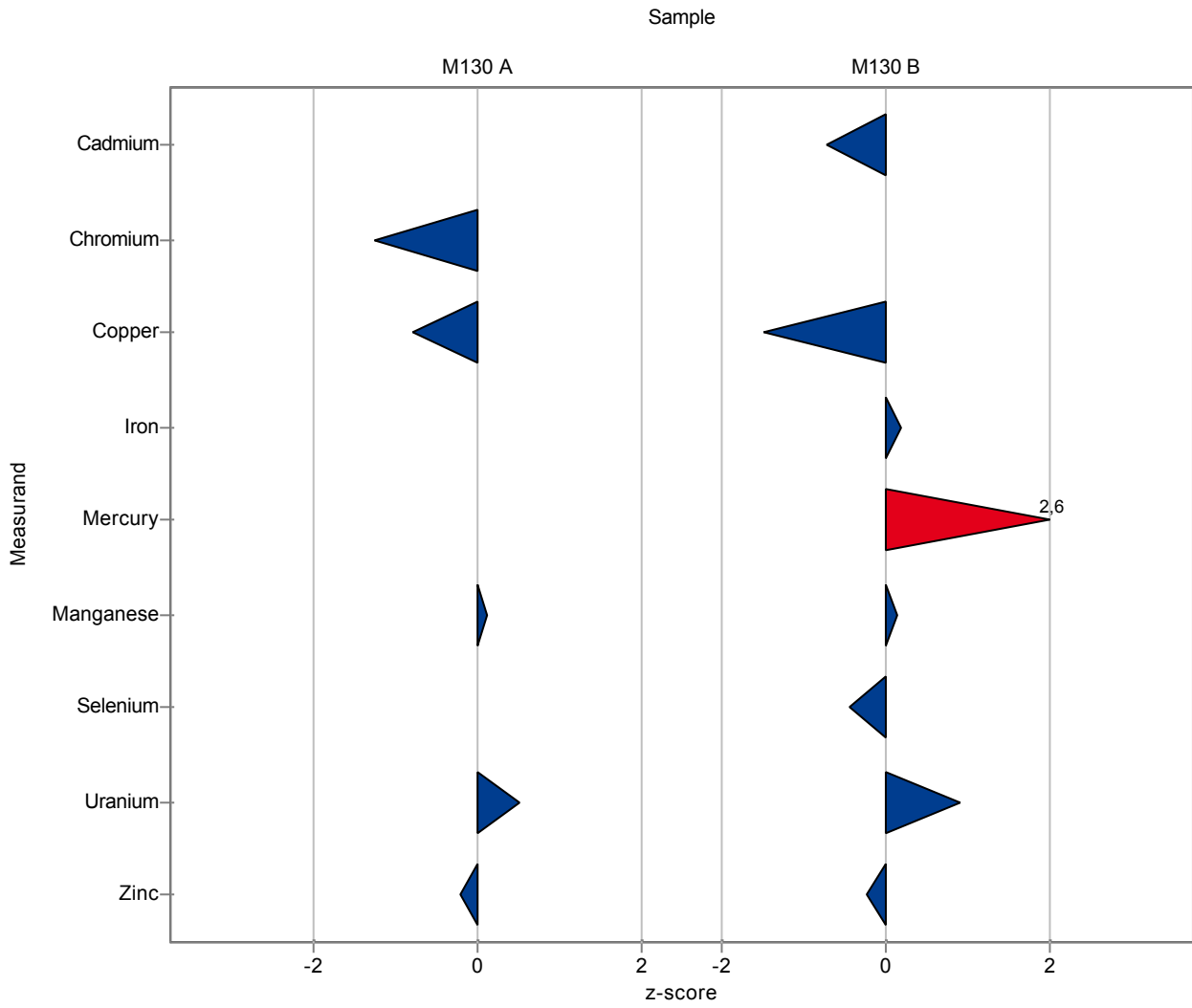
Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	<10 (LOQ)	-	0,312	-	-
Arsenic	µg/l	0,491	± 0,0621	<1 (LOQ)	-	0,0774	-	-
Cadmium	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,1	0,1	0,117	88,2	-1,25
Copper	µg/l	5,97	± 0,302	5,6	0,6	0,471	93,8	-0,78
Iron	µg/l	1,78	± 0,328	<10 (LOQ)	-	0,379	-	-
Mercury	µg/l	-	± -	<0,05 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,4	0,3	0,167	101	0,12
Nickel	µg/l	0,33	± 0,0521	<1 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	<1 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	<1 (LOQ)	-	0,12	-	-
Uranium	µg/l	2,99	± 0,155	3,1	0,3	0,219	104	0,52
Zinc	µg/l	152	± 7,22	150	15	11,8	98,4	-0,21

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	<10 (LOQ)	-	1,04	-	-
Arsenic	µg/l	0,61	± 0,0737	<1 (LOQ)	-	0,0952	-	-
Cadmium	µg/l	0,259	± 0,0157	0,24	0,03	0,0251	92,8	-0,74
Chromium	µg/l	0,754	± 0,0545	<1 (LOQ)	-	0,068	-	-
Copper	µg/l	5,46	± 0,2	5	0,5	0,306	91,6	-1,5
Iron	µg/l	10,9	± 0,507	11	1	0,774	101	0,18
Mercury	µg/l	0,134	± 0,0242	0,22	0,02	0,0333	164	2,57
Manganese	µg/l	2,48	± 0,111	2,5	0,3	0,162	101	0,13
Nickel	µg/l	0,545	± 0,0347	<1 (LOQ)	-	0,0384	-	-
Lead	µg/l	0,123	± 0,0443	<1 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	2,5	0,3	0,359	94	-0,44
Uranium	µg/l	7,06	± 0,406	7,6	0,8	0,589	108	0,91
Zinc	µg/l	84,6	± 3,99	83	8	6,51	98,1	-0,24





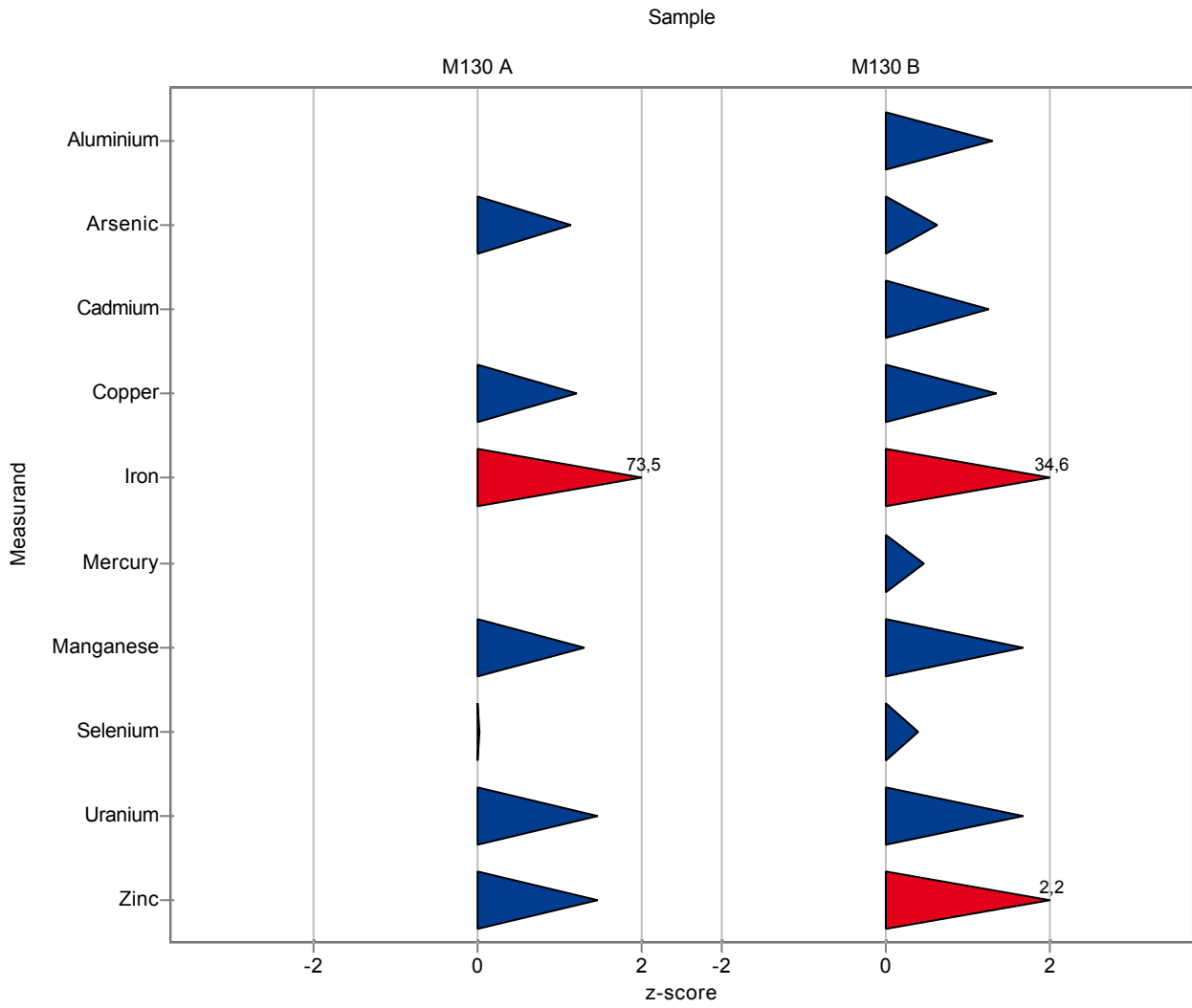
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	<5 (LOQ)	-	0,312	-	-
Arsenic	µg/l	0,491	± 0,0621	0,58	0,0696	0,0774	118	1,15
Cadmium	µg/l	-	± -	<0,02 (LOD)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	<0,08 (LOD)	-	0,117	-	-
Copper	µg/l	5,97	± 0,302	6,54	0,5232	0,471	110	1,21
Iron	µg/l	1,78	± 0,328	29,63	7,7038	0,379	1670	73,5
Mercury	µg/l	-	± -	<0,01 (LOD)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,6	0,26	0,167	109	1,31
Nickel	µg/l	0,33	± 0,0521	<0,03 (LOD)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	<0,5 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	0,8	0,06	0,12	100	0,03
Uranium	µg/l	2,99	± 0,155	3,31	-	0,219	111	1,48
Zinc	µg/l	152	± 7,22	169,96	16,996	11,8	111	1,48

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	8,41	0,841	1,04	119	1,29
Arsenic	µg/l	0,61	± 0,0737	0,67	0,0804	0,0952	110	0,63
Cadmium	µg/l	0,259	± 0,0157	0,29	0,0232	0,0251	112	1,25
Chromium	µg/l	0,754	± 0,0545	<0,08 (LOD)	-	0,068	-	-
Copper	µg/l	5,46	± 0,2	5,87	0,4696	0,306	108	1,34
Iron	µg/l	10,9	± 0,507	37,67	9,7942	0,774	347	34,6
Mercury	µg/l	0,134	± 0,0242	0,15	0,018	0,0333	112	0,47
Manganese	µg/l	2,48	± 0,111	2,75	0,275	0,162	111	1,68
Nickel	µg/l	0,545	± 0,0347	<0,03 (LOD)	-	0,0384	-	-
Lead	µg/l	0,123	± 0,0443	<0,5 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	2,8	0,22	0,359	105	0,39
Uranium	µg/l	7,06	± 0,406	8,05	-	0,589	114	1,67
Zinc	µg/l	84,6	± 3,99	99,02	9,902	6,51	117	2,22



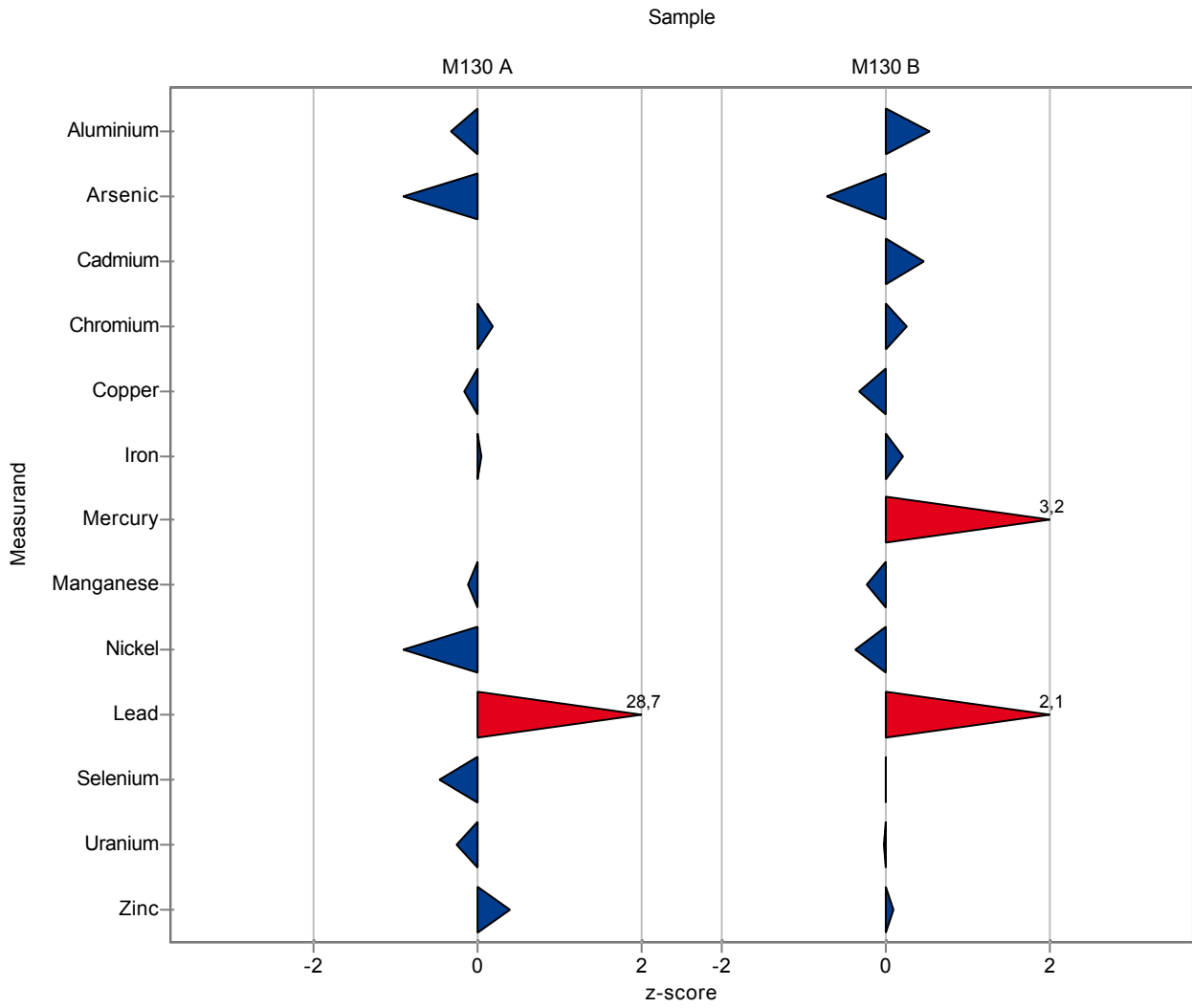
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	0,99	0,09	0,312	90,9	-0,32
Arsenic	µg/l	0,491	± 0,0621	0,42	0,04	0,0774	85,6	-0,92
Cadmium	µg/l	-	± -	0,0105	0,0017	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,27	0,1	0,117	102	0,2
Copper	µg/l	5,97	± 0,302	5,9	1,01	0,471	98,8	-0,15
Iron	µg/l	1,78	± 0,328	1,8	0,16	0,379	101	0,06
Mercury	µg/l	-	± -	<0,01 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,36	0,16	0,167	99,2	-0,12
Nickel	µg/l	0,33	± 0,0521	0,28	0,03	0,0549	84,8	-0,92
Lead	µg/l	0,108	± 0,0108	0,4	0,06	0,0102	370	28,7
Selenium	µg/l	0,797	± 0,0961	0,74	0,1	0,12	92,9	-0,47
Uranium	µg/l	2,99	± 0,155	2,93	0,31	0,219	98,1	-0,26
Zinc	µg/l	152	± 7,22	157,33	16,83	11,8	103	0,41

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	7,61	0,71	1,04	108	0,52
Arsenic	µg/l	0,61	± 0,0737	0,54	0,05	0,0952	88,6	-0,73
Cadmium	µg/l	0,259	± 0,0157	0,27	0,05	0,0251	104	0,46
Chromium	µg/l	0,754	± 0,0545	0,77	0,06	0,068	102	0,24
Copper	µg/l	5,46	± 0,2	5,36	0,92	0,306	98,2	-0,33
Iron	µg/l	10,9	± 0,507	11,02	0,98	0,774	101	0,21
Mercury	µg/l	0,134	± 0,0242	0,24	0,03	0,0333	179	3,17
Manganese	µg/l	2,48	± 0,111	2,44	0,17	0,162	98,4	-0,24
Nickel	µg/l	0,545	± 0,0347	0,53	0,06	0,0384	97,3	-0,38
Lead	µg/l	0,123	± 0,0443	0,21	0,03	0,0417	171	2,09
Selenium	µg/l	2,66	± 0,235	2,66	0,37	0,359	100	0,00
Uranium	µg/l	7,06	± 0,406	7,05	0,74	0,589	99,8	-0,02
Zinc	µg/l	84,6	± 3,99	85,2	9,12	6,51	101	0,1



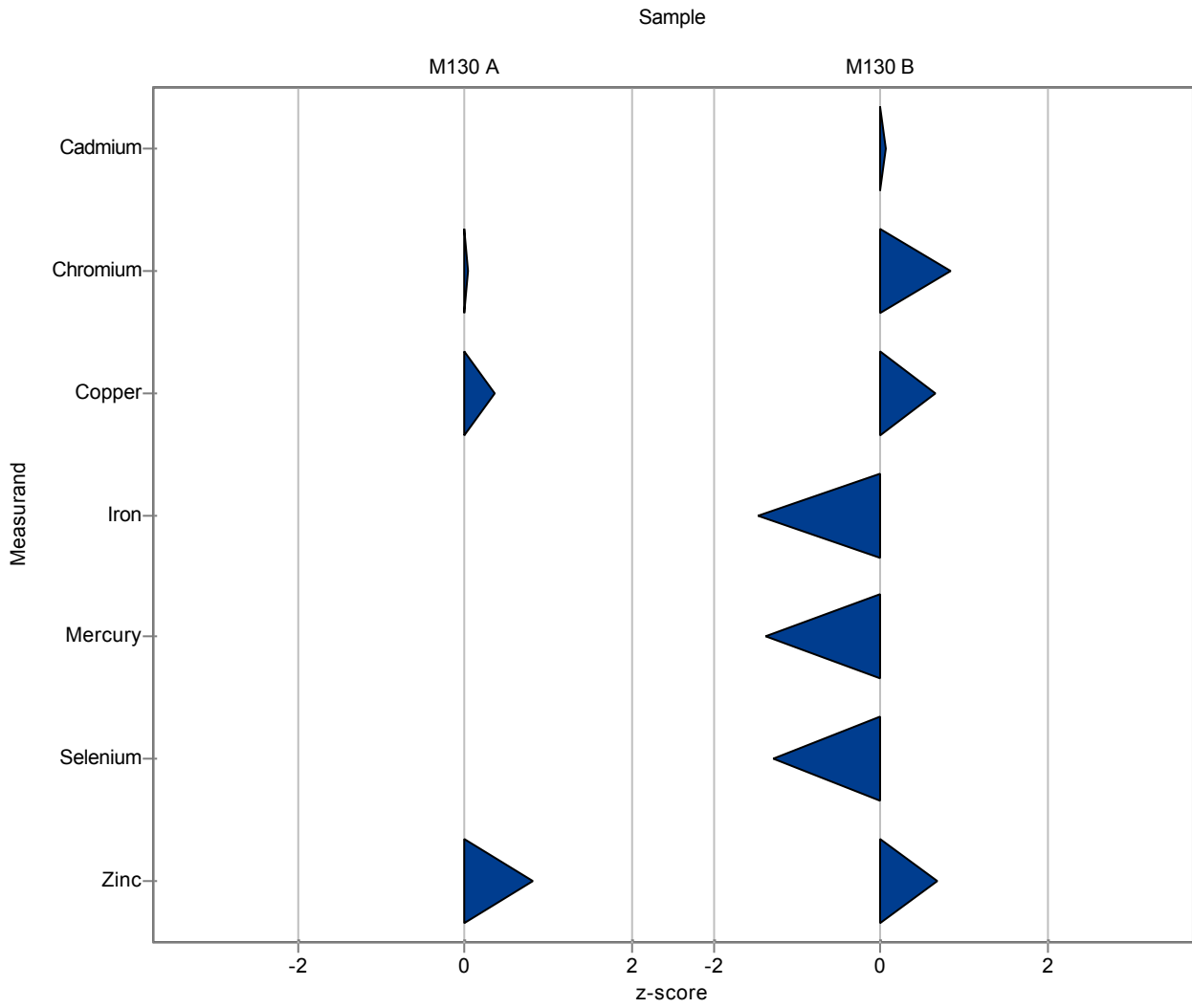
The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	<8 (LOQ)	-	0,312	-	-
Arsenic	µg/l	0,491	± 0,0621	<1 (LOQ)	-	0,0774	-	-
Cadmium	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,25	0,19	0,117	100	0,03
Copper	µg/l	5,97	± 0,302	6,14	0,92	0,471	103	0,36
Iron	µg/l	1,78	± 0,328	<10 (LOQ)	-	0,379	-	-
Mercury	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	<5 (LOQ)	-	0,167	-	-
Nickel	µg/l	0,33	± 0,0521	<1 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	<1 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	<1 (LOQ)	-	0,12	-	-
Uranium	µg/l	2,99	± 0,155	-	-	0,219	-	-
Zinc	µg/l	152	± 7,22	162	16,2	11,8	106	0,81

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	<8 (LOQ)	-	1,04	-	-
Arsenic	µg/l	0,61	± 0,0737	<1 (LOQ)	-	0,0952	-	-
Cadmium	µg/l	0,259	± 0,0157	0,26	0,05	0,0251	101	0,06
Chromium	µg/l	0,754	± 0,0545	0,81	0,12	0,068	107	0,83
Copper	µg/l	5,46	± 0,2	5,66	0,85	0,306	104	0,66
Iron	µg/l	10,9	± 0,507	9,71	1,46	0,774	89,4	-1,48
Mercury	µg/l	0,134	± 0,0242	0,088	0,02	0,0333	65,5	-1,39
Manganese	µg/l	2,48	± 0,111	<5 (LOQ)	-	0,162	-	-
Nickel	µg/l	0,545	± 0,0347	<1 (LOQ)	-	0,0384	-	-
Lead	µg/l	0,123	± 0,0443	<1 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	2,19	0,44	0,359	82,4	-1,3
Uranium	µg/l	7,06	± 0,406	-	-	0,589	-	-
Zinc	µg/l	84,6	± 3,99	88,9	8,88	6,51	105	0,67



The following results were achieved:

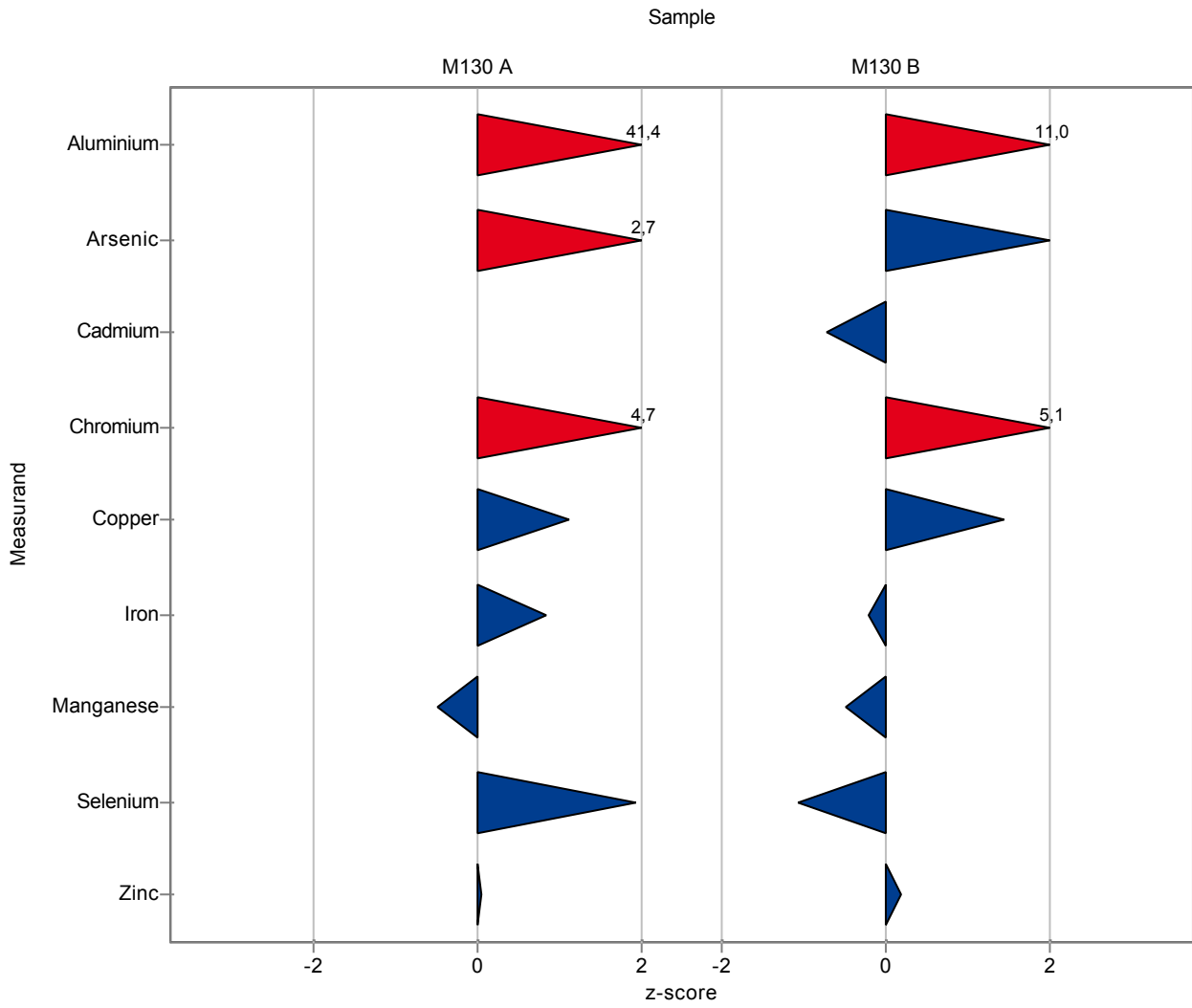
Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	14	2,7	0,312	1290	41,4
Arsenic	µg/l	0,491	± 0,0621	0,7	0,19	0,0774	143	2,7
Cadmium	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,8	0,2	0,117	144	4,72
Copper	µg/l	5,97	± 0,302	6,5	1,6	0,471	109	1,13
Iron	µg/l	1,78	± 0,328	2,1	0,1	0,379	118	0,85
Mercury	µg/l	-	± -	-	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,3	0,4	0,167	96,6	-0,48
Nickel	µg/l	0,33	± 0,0521	<2 (LOQ)	-	0,0549	-	-
Lead	µg/l	0,108	± 0,0108	<1 (LOQ)	-	0,0102	-	-
Selenium	µg/l	0,797	± 0,0961	1,03	0,31	0,12	129	1,95
Uranium	µg/l	2,99	± 0,155	-	-	0,219	-	-
Zinc	µg/l	152	± 7,22	153	15,3	11,8	100	0,05

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	18,5	3,6	1,04	262	11
Arsenic	µg/l	0,61	± 0,0737	0,8	0,22	0,0952	131	2
Cadmium	µg/l	0,259	± 0,0157	0,24	0,07	0,0251	92,8	-0,74
Chromium	µg/l	0,754	± 0,0545	1,1	0,1	0,068	146	5,09
Copper	µg/l	5,46	± 0,2	5,9	1,5	0,306	108	1,44
Iron	µg/l	10,9	± 0,507	10,7	0,8	0,774	98,5	-0,2
Mercury	µg/l	0,134	± 0,0242	-	-	0,0333	-	-
Manganese	µg/l	2,48	± 0,111	2,4	0,4	0,162	96,8	-0,49
Nickel	µg/l	0,545	± 0,0347	<2 (LOQ)	-	0,0384	-	-
Lead	µg/l	0,123	± 0,0443	<1 (LOQ)	-	0,0417	-	-
Selenium	µg/l	2,66	± 0,235	2,27	0,68	0,359	85,4	-1,08
Uranium	µg/l	7,06	± 0,406	-	-	0,589	-	-
Zinc	µg/l	84,6	± 3,99	85,8	8,6	6,51	101	0,19





The following results were achieved:

Sample: M130A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	1,09	± 0,312	1,2	0,12	0,312	110	0,35
Arsenic	µg/l	0,491	± 0,0621	0,47	0,05	0,0774	95,8	-0,27
Cadmium	µg/l	-	± -	0,011	0,001	-	-	-
Chromium	µg/l	1,25	± 0,0829	1,22	0,12	0,117	97,9	-0,23
Copper	µg/l	5,97	± 0,302	5,79	0,58	0,471	97	-0,38
Iron	µg/l	1,78	± 0,328	2	0,6	0,379	112	0,59
Mercury	µg/l	-	± -	<0,02 (LOD)	-	-	-	-
Manganese	µg/l	2,38	± 0,115	2,45	0,25	0,167	103	0,42
Nickel	µg/l	0,33	± 0,0521	0,3	0,03	0,0549	90,8	-0,55
Lead	µg/l	0,108	± 0,0108	0,11	0,01	0,0102	102	0,19
Selenium	µg/l	0,797	± 0,0961	0,75	0,08	0,12	94,1	-0,39
Uranium	µg/l	2,99	± 0,155	3,1	0,31	0,219	104	0,52
Zinc	µg/l	152	± 7,22	145	15	11,8	95,1	-0,63

Sample: M130B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	7,07	± 0,806	8,8	0,88	1,04	125	1,66
Arsenic	µg/l	0,61	± 0,0737	0,57	0,06	0,0952	93,5	-0,42
Cadmium	µg/l	0,259	± 0,0157	0,275	0,028	0,0251	106	0,66
Chromium	µg/l	0,754	± 0,0545	0,74	0,07	0,068	98,2	-0,2
Copper	µg/l	5,46	± 0,2	5,37	0,54	0,306	98,4	-0,29
Iron	µg/l	10,9	± 0,507	12	1,2	0,774	111	1,48
Mercury	µg/l	0,134	± 0,0242	0,118	0,012	0,0333	87,9	-0,49
Manganese	µg/l	2,48	± 0,111	2,58	0,26	0,162	104	0,62
Nickel	µg/l	0,545	± 0,0347	0,52	0,05	0,0384	95,5	-0,64
Lead	µg/l	0,123	± 0,0443	0,094	0,01	0,0417	76,6	-0,69
Selenium	µg/l	2,66	± 0,235	2,79	0,28	0,359	105	0,37
Uranium	µg/l	7,06	± 0,406	7,5	0,75	0,589	106	0,74
Zinc	µg/l	84,6	± 3,99	82,2	8,2	6,51	97,2	-0,36

