ENVIRONMENT AGENCY AUSTRIA umweltbundesamt

INTERLABORATORY COMPARISON EVALUATION

Herbicides – HB89

Sample dispatch on 24th June 2014

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1 Interlaboratory comparison HB89

1.1 Participants and time schedule

- Number of registrations: 28
- Number of submitted data records: 28
- Dispatch of samples: 24th June 2014
- Closing date for submission of data: 22nd July 2014, postponed to 29th July 2014

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

1.2 Sampling, sample material and distribution

2 groundwater samples were selected as sample material. The sampling was carried out on 22nd and 23rd June 2014. The samples were stored at < 4 °C until further processing. The groundwater was partly spiked with specific substances. The samples were filled into bottles with continuous stirring. The homogeneous mixtures were dispatched on 24th June 2014. Each participant received:

- 2 samples, filled in 1000 ml aluminium bottles.

1.3 Check analysis

While filling the bottles, aliquots of each sample were collected at random moments for check analysis. Testing was performed 8 days after sample dispatch.

In the parameter-oriented evaluation, the results of the check testing are listed in the form of arithmetic means of the detected concentrations as check value ± U. The uncertainties of the check value were calculated as extended uncertainties (k=2).

2 Evaluation

The analytical results had to be made available to the organiser not later than 29th July 2014. 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. The adjusted average value (after removal of outliers) for all submitted results was used as a basis for the calculation of recovery rates.

z-Score

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

$$z - score = \frac{x_i - \overline{X}}{\sigma}$$

In this context,

x_i is the measurement value of the participating laboratory.

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

σ 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 illustrated in graphical form (see 5 Explanatary notes on the parameter oriented report).

4 Explanatory notes

None.

5 Explanatory notes on the parameter oriented report

Mean ± CI (99%)	***Mean of the participants results, without outliners ± 99% confidence interval***
Minimum – Maximum	***Minimum and maximum of all submitted results, after removal of outliners***
Check value ± U	***Mean of check value ± expanded uncertainty (k=2)***

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.015	0.0001	89. 7	-0.5	
LC0002	0.0148	0.003	88. 5	0.6	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
. . .					
LC0009	0.100	0.01	597.9	24.2	H

Symbols and abbreviations:

± U Results uncertainty as indicated by participant

\- *No data available*

Possible remarks in the column comments:

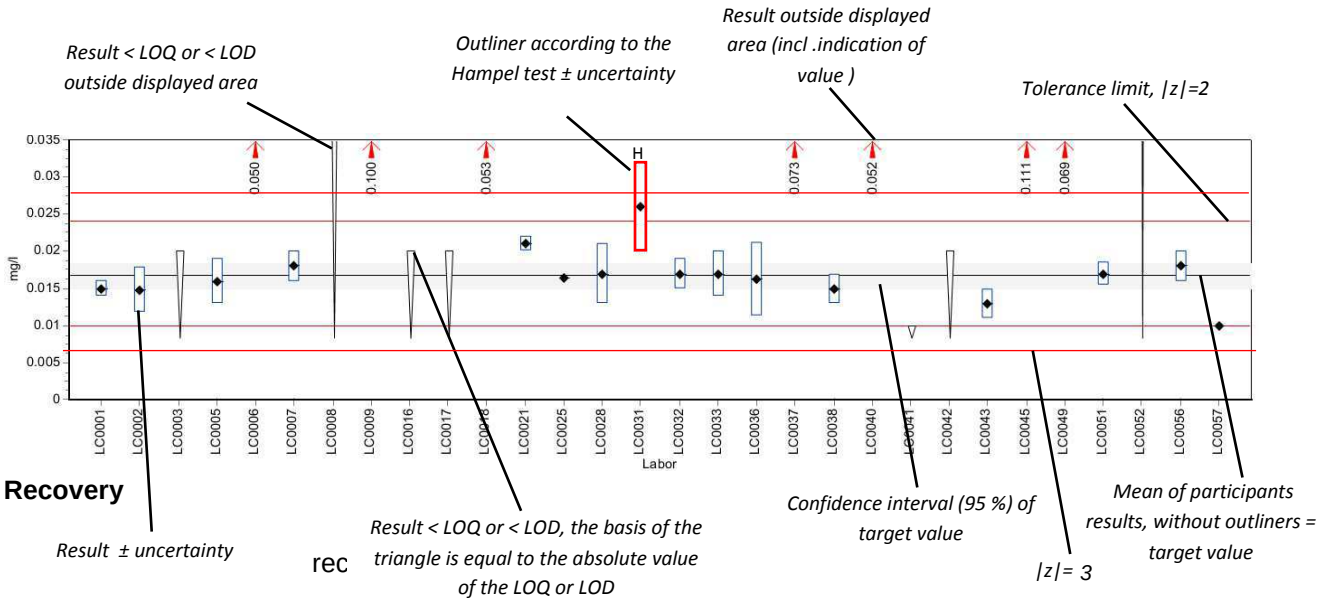
H Outliner according to Hampel-Test

FN False negative – For a result < LOQ (level of quantification): The absolute value of the LOD/LOQ fulfils the condition of an outliner according to the Hampel test.

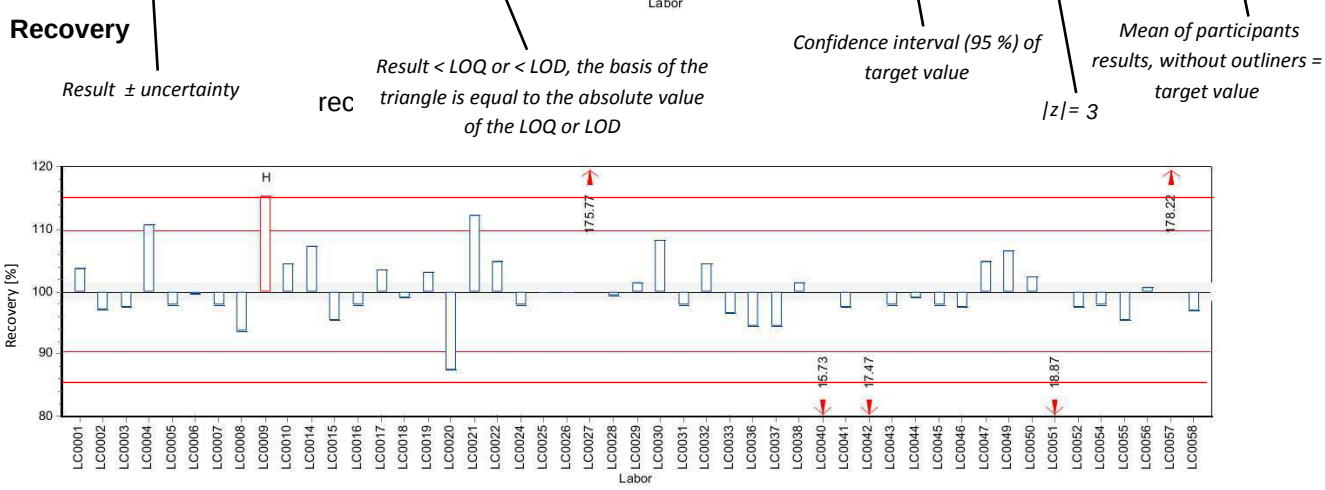
FP False positive – For parameters where no target value is available because of a too low analyte content (n < 6): Result that exceeds the median of the absolute values of the transmitted LOD/LOQs by more than 100 %.

Graphical presentation of results

Results

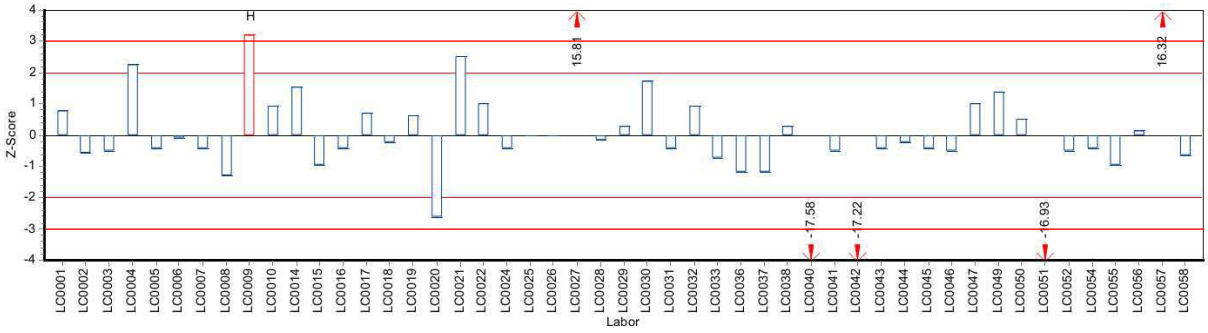


Recovery



z-Score

Presentation of results as z-scores.



6 Summary of results, after removal of outliers

Parameter	Sample	Unit	Number of results for calculation	Number of outliners	Mean	±	CI (99%)	Minimum	Maximum	SD	RSD
Bromacil	HB89 A	µg/l	16	0	0.921	±	0.0926	0.724	1.16	0.123	13.4
	HB89 B	µg/l	14	2	1.4	±	0.0951	1.16	1.521	0.119	8.47
Diuron	HB89 A	µg/l	20	1	0.113	±	0.0159	0.06	0.16	0.0237	21
	HB89 B	µg/l	1	0	-	±	-	0.006	0.006	-	-
Chloridazon	HB89 A	µg/l	15	4	0.503	±	0.033	0.442	0.59	0.0427	8.47
	HB89 B	µg/l	0	0	-	±	-	-	-	-	-
Desphenylchloridazon	HB89 A	µg/l	0	0	-	±	-	-	-	-	-
	HB89 B	µg/l	11	1	0.111	±	0.0232	0.056	0.155	0.0256	23.1
Methyldesphenylchloridazon	HB89 A	µg/l	0	0	-	±	-	-	-	-	-
	HB89 B	µg/l	12	1	0.137	±	0.0101	0.121	0.156	0.0116	8.52
Isoproturon	HB89 A	µg/l	19	3	0.246	±	0.0136	0.21	0.285	0.0197	8.01
	HB89 B	µg/l	0	0	-	±	-	-	-	-	-
Linuron	HB89 A	µg/l	0	0	-	±	-	-	-	-	-
	HB89 B	µg/l	20	0	0.736	±	0.0886	0.547	0.962	0.132	18
Glyphosate	HB89 A	µg/l	11	3	0.133	±	0.0147	0.1015	0.165	0.0162	12.2
	HB89 B	µg/l	15	0	0.477	±	0.0838	0.35	0.714	0.108	22.7
Glufosinate	HB89 A	µg/l	0	0	-	±	-	-	-	-	-
	HB89 B	µg/l	9	0	0.172	±	0.0442	0.1	0.23	0.0442	25.8
AMPA	HB89 A	µg/l	14	0	0.658	±	0.245	0.093	1.361	0.305	46.4
	HB89 B	µg/l	5	0	-	±	-	0.0056	0.05	-	-
Dimethylsulfamide	HB89 A	µg/l	10	0	0.415	±	0.0568	0.313	0.524	0.0599	14.4
	HB89 B	µg/l	10	0	0.344	±	0.0504	0.26	0.428	0.0532	15.4

7 Parameter oriented report

Parameter oriented report

HB89 A

Bromacil

Unit	µg/l
Mean ± Cl (99%)	0.921 ± 0.0926
Minimum - Maximum	0.724 - 1.16
Check value ± U	0.84 ± 0.018

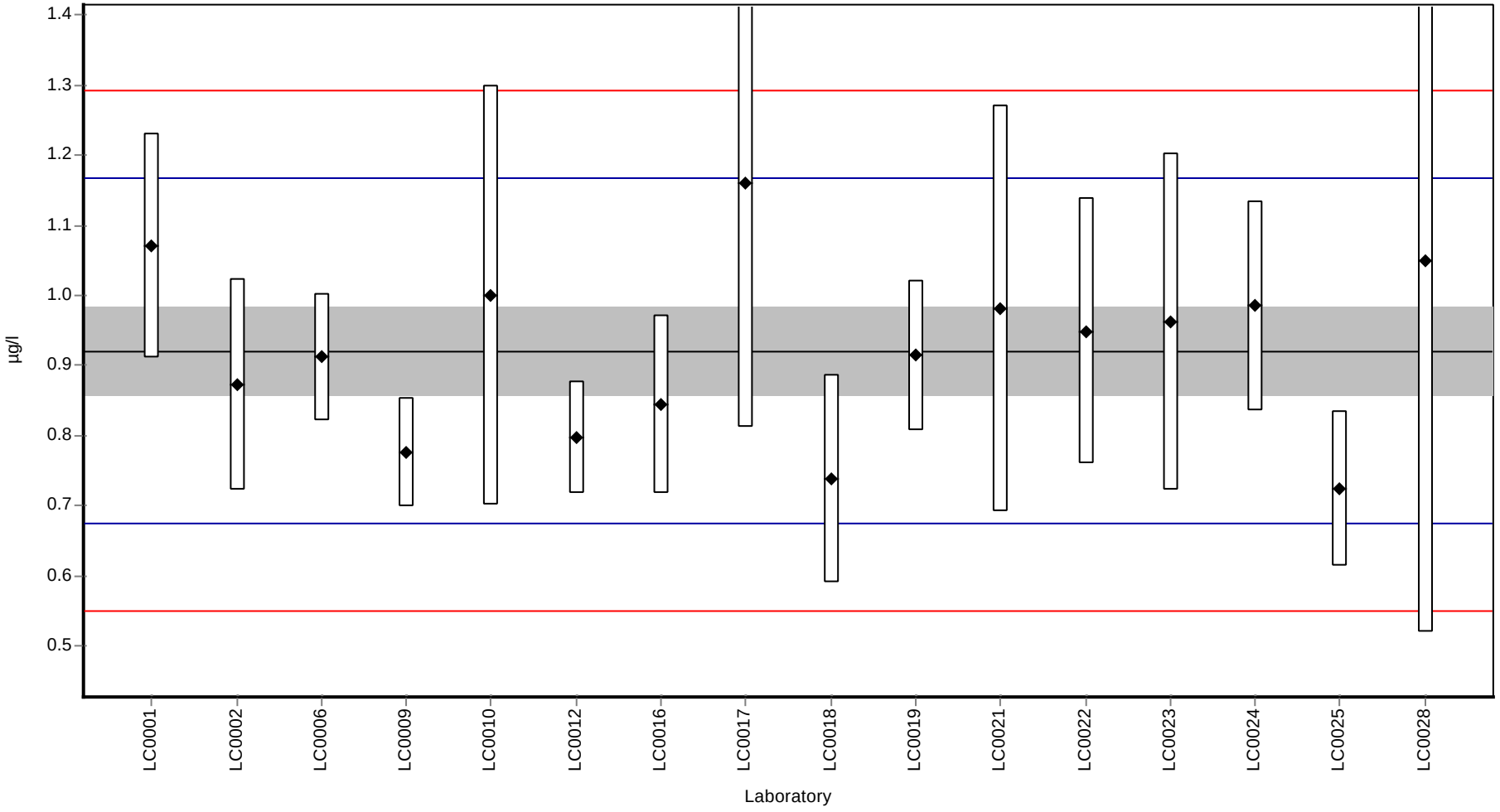
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.070	0.160	116.2	1.2	
LC0002	0.8724	0.1506	94.7	-0.4	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.912	0.091	99.0	-0.1	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	0.777	0.078	84.4	-1.2	
LC0010	1.000	0.300	108.6	0.6	
LC0011	-	-	-	-	
LC0012	0.798	0.080	86.6	-1.0	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	0.845	0.127	91.7	-0.6	
LC0017	1.160	0.349	125.9	1.9	
LC0018	0.738	0.148	80.1	-1.5	
LC0019	0.914	0.107	99.2	-0.1	
LC0020	-	-	-	-	
LC0021	0.980	0.290	106.4	0.5	
LC0022	0.949	0.190	103.0	0.2	
LC0023	0.962	0.241	104.4	0.3	
LC0024	0.985	0.150	106.9	0.5	
LC0025	0.724	0.110	78.6	-1.6	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	1.050	0.530	114.0	1.0	

Characteristics of parameter

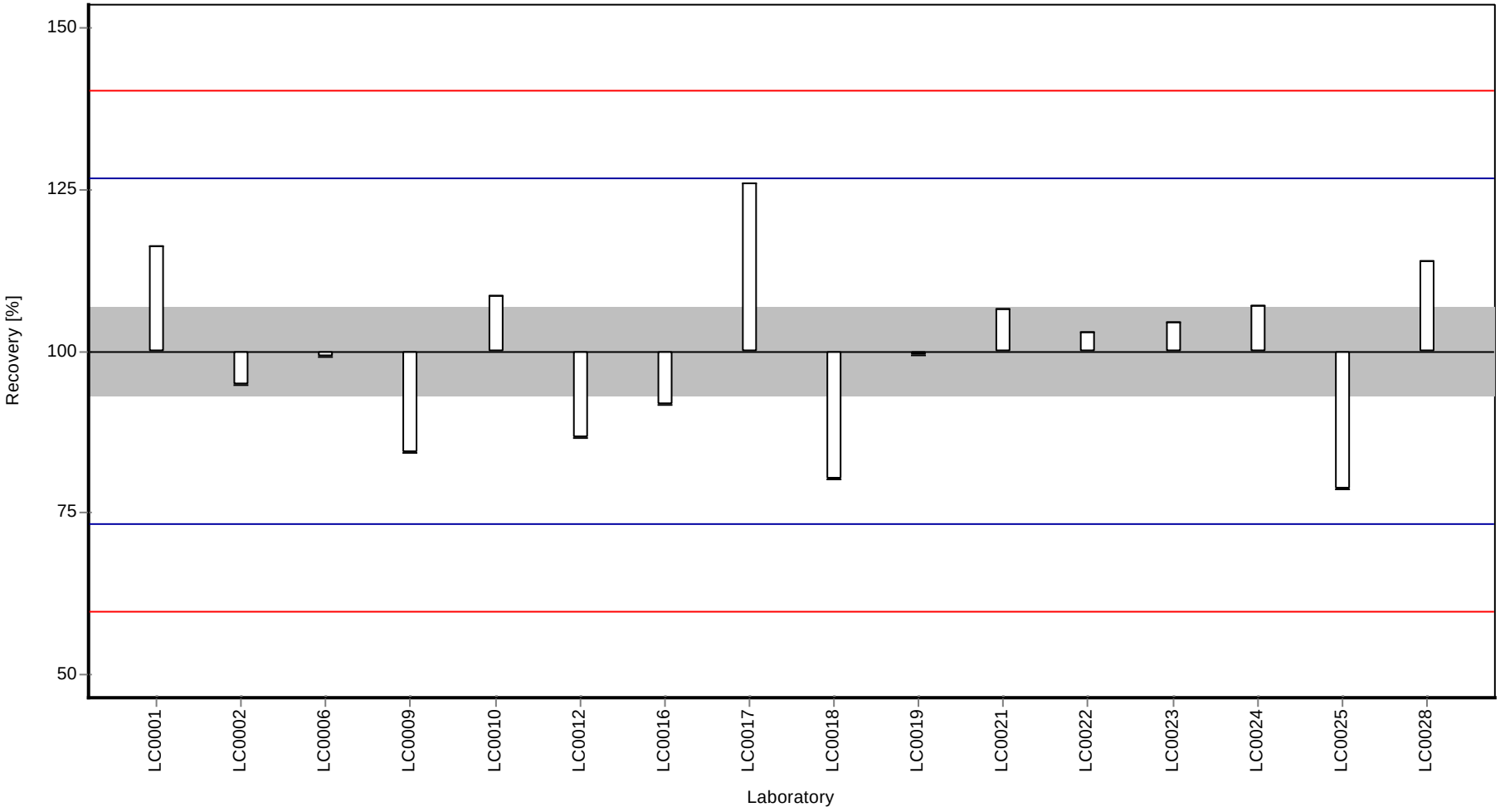
	all results	without outliners	Unit
Mean ± Cl (99%)	0.921 ± 0.0926	0.921 ± 0.0926	µg/l
Minimum	0.724	0.724	µg/l
Maximum	1.16	1.16	µg/l
Standard deviation	0.123	0.123	µg/l
rel. Standard deviation	13.4	13.4	%
n	16	16	-

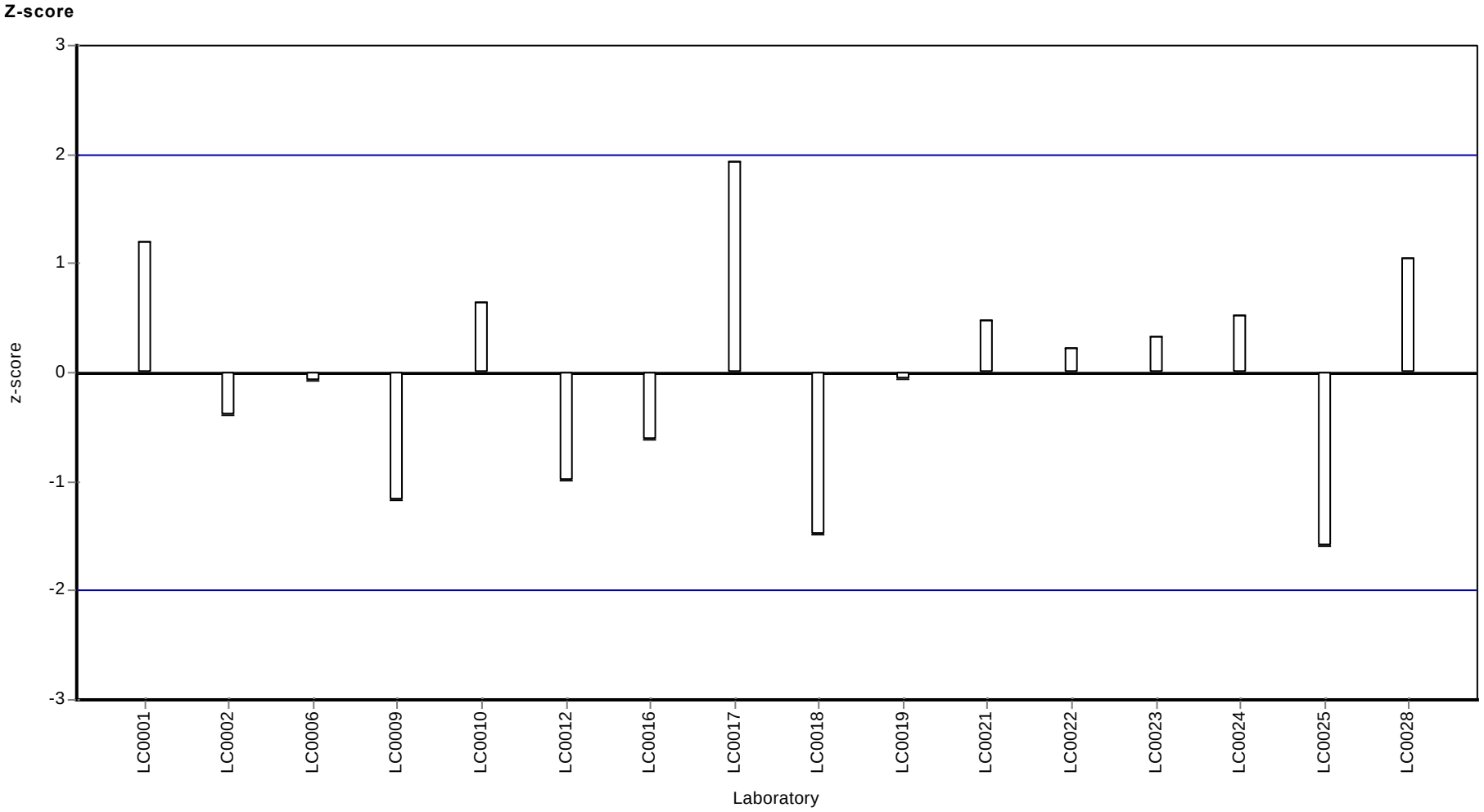
Graphical presentation of results

Results



Recovery rate




Z-score
3
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1
0
-1
-2
-3
z-score
LC0001
LC0002
LC0006
LC0009
LC0010
LC0012
LC0016
LC0017
LC0018
LC0019
LC0021
LC0022
LC0023
LC0024
LC0025
LC0028
Laboratory

Parameter oriented report

HB89 B

Bromacil

Unit	µg/l
Mean ± Cl (99%)	1.4 ± 0.0951
Minimum - Maximum	1.16 - 1.521
Check value ± U	1.4 ± 0.013

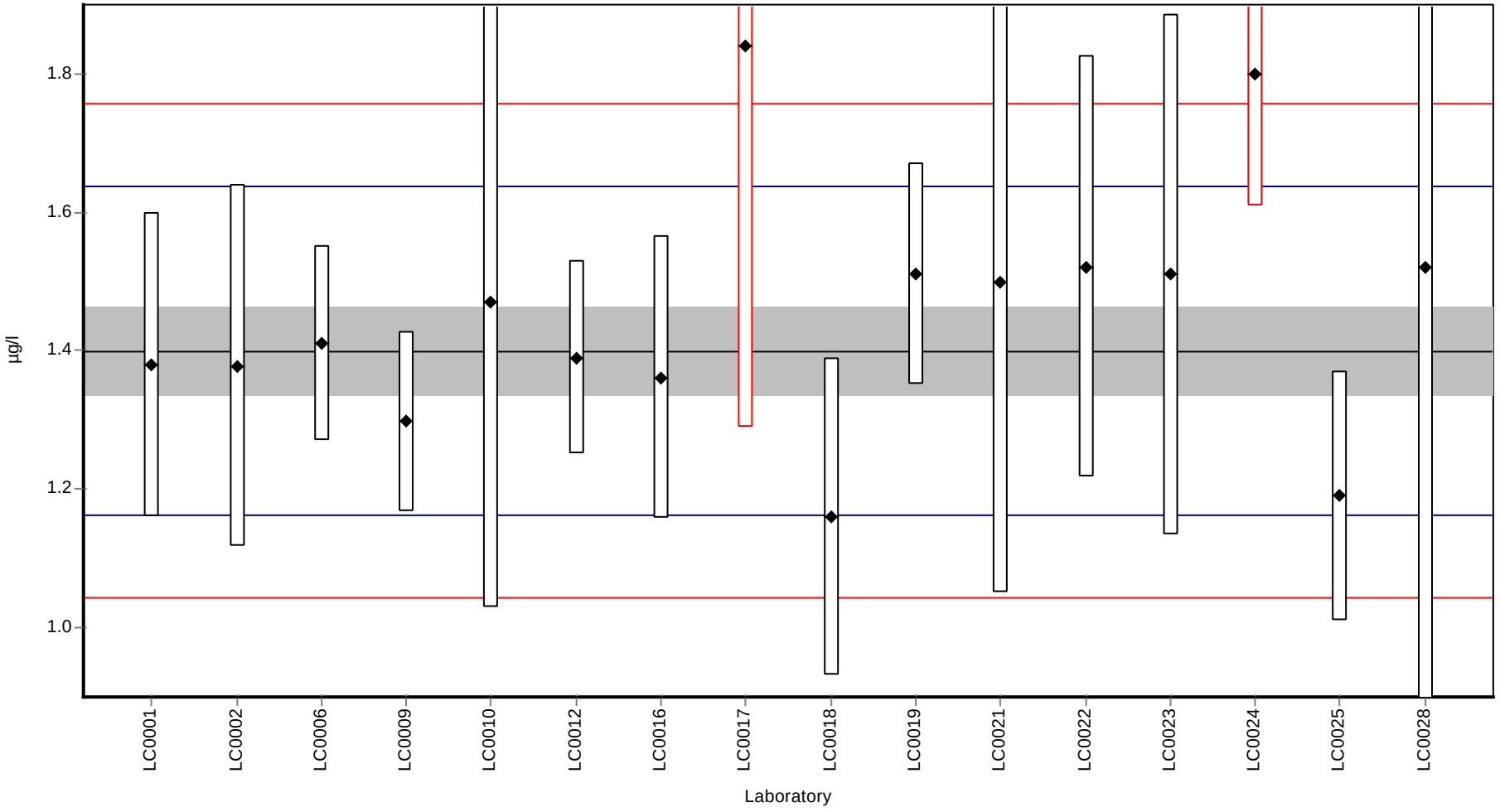
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.380	0.220	98.6	-0.2	
LC0002	1.3779	0.2618	98.4	-0.2	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	1.410	0.141	100.7	0.1	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	1.298	0.130	92.7	-0.9	
LC0010	1.470	0.440	105.0	0.6	
LC0011	-	-	-	-	
LC0012	1.390	0.139	99.3	-0.1	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	1.361	0.204	97.2	-0.3	
LC0017	1.840	0.552	131.4	3.7	H
LC0018	1.160	0.230	82.9	-2.0	
LC0019	1.510	0.160	107.9	0.9	
LC0020	-	-	-	-	
LC0021	1.500	0.450	107.2	0.8	
LC0022	1.521	0.304	108.7	1.0	
LC0023	1.510	0.376	107.9	0.9	
LC0024	1.800	0.190	128.6	3.4	H
LC0025	1.190	0.180	85.0	-1.8	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	1.520	0.750	108.6	1.0	

Characteristics of parameter

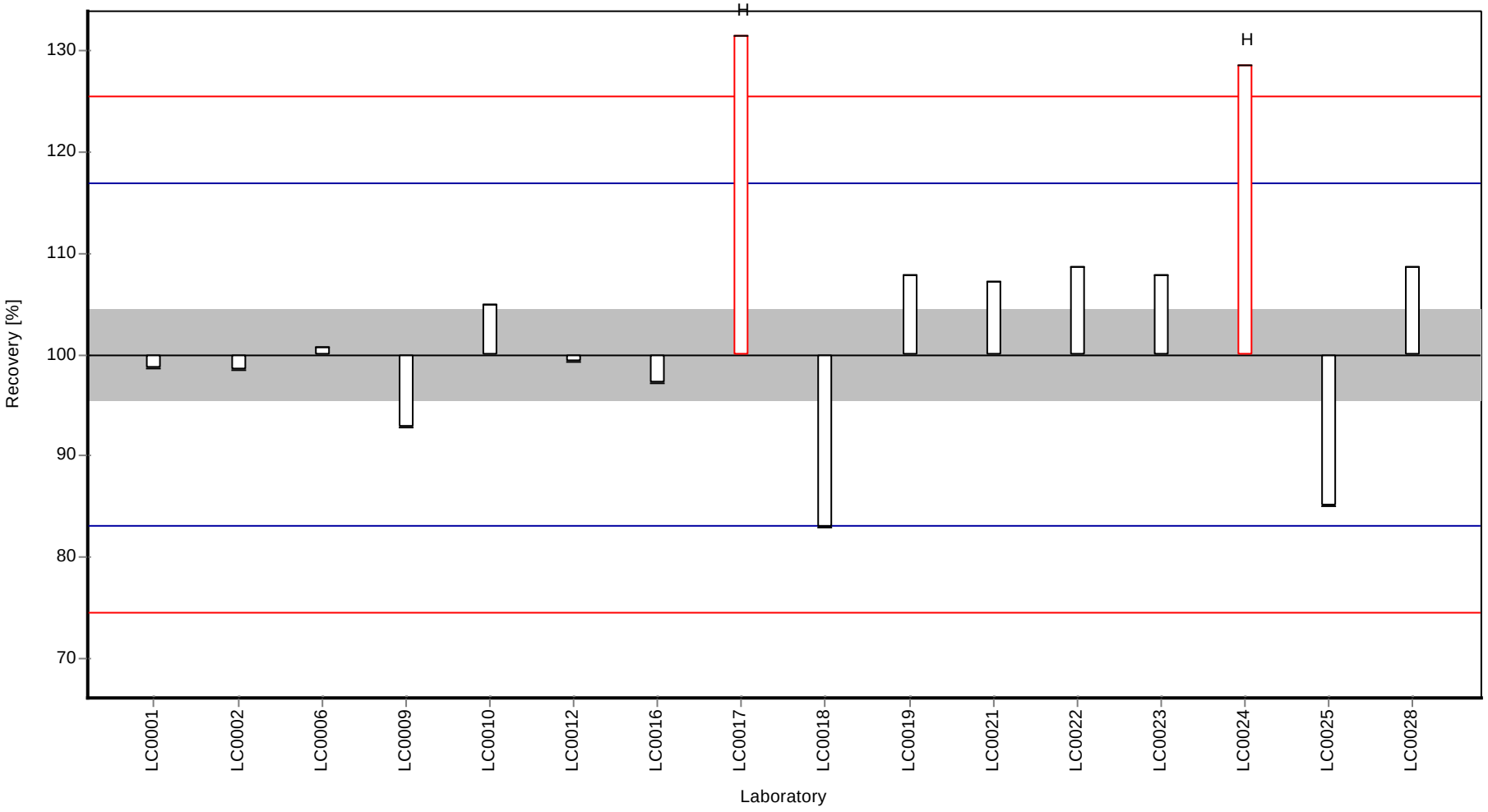
	all results	without outliners	Unit
Mean ± Cl (99%)	1.45 ± 0.136	1.4 ± 0.0951	µg/l
Minimum	1.16	1.16	µg/l
Maximum	1.84	1.52	µg/l
Standard deviation	0.181	0.119	µg/l
rel. Standard deviation	12.5	8.47	%
n	16	14	-

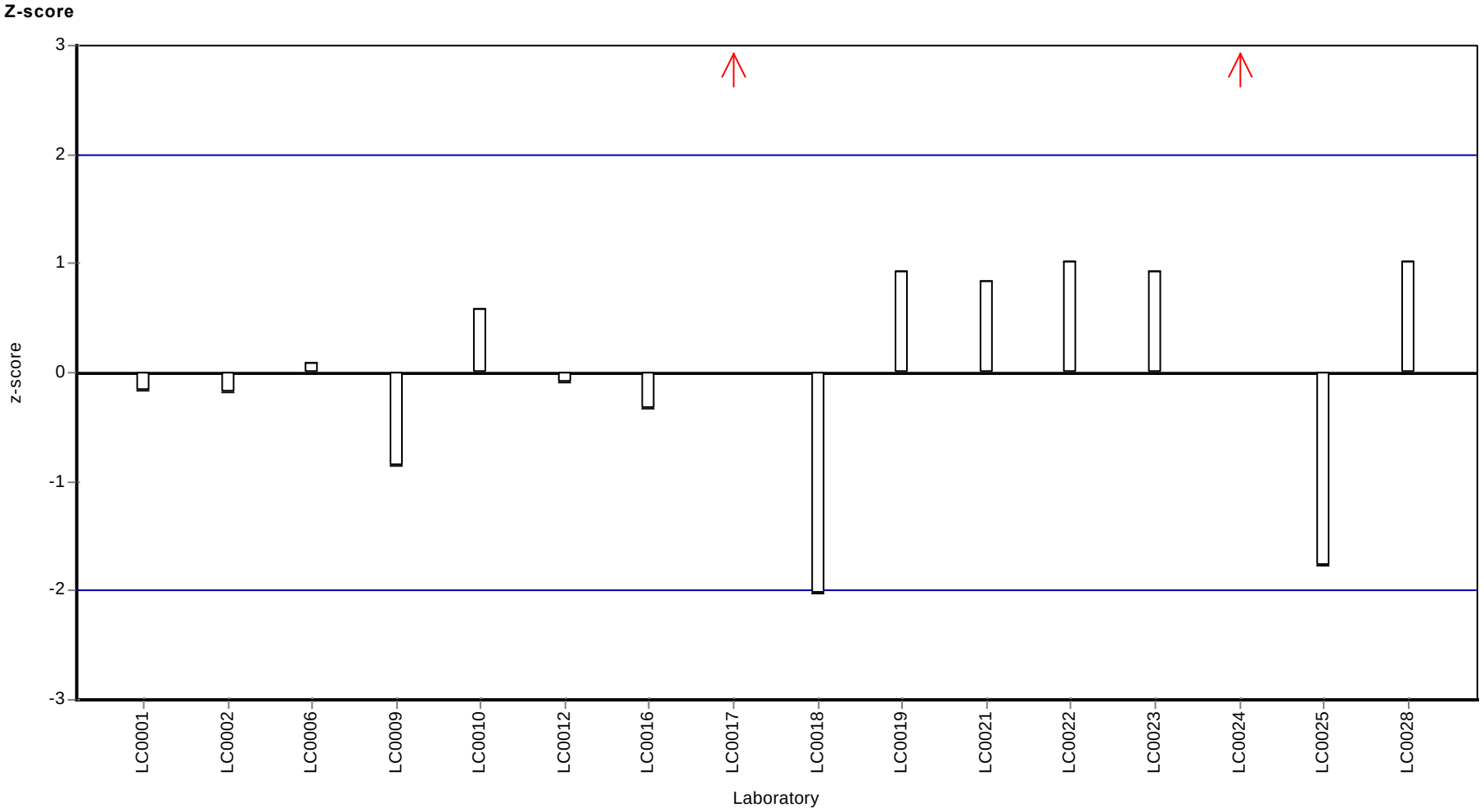
Graphical presentation of results

Results



Recovery rate




Z-score
3
2
1
0
-1
-2
-3
z-score
LC0001
LC0002
LC0006
LC0009
LC0010
LC0012
LC0016
LC0017
LC0018
LC0019
LC0021
LC0022
LC0023
LC0024
LC0025
LC0028
Laboratory

Parameter oriented report

HB89 A

Diuron

Unit	µg/l
Mean ± Cl (99%)	0.113 ± 0.0159
Minimum - Maximum	0.06 - 0.16
Check value ± U	0.12 ± 0.011

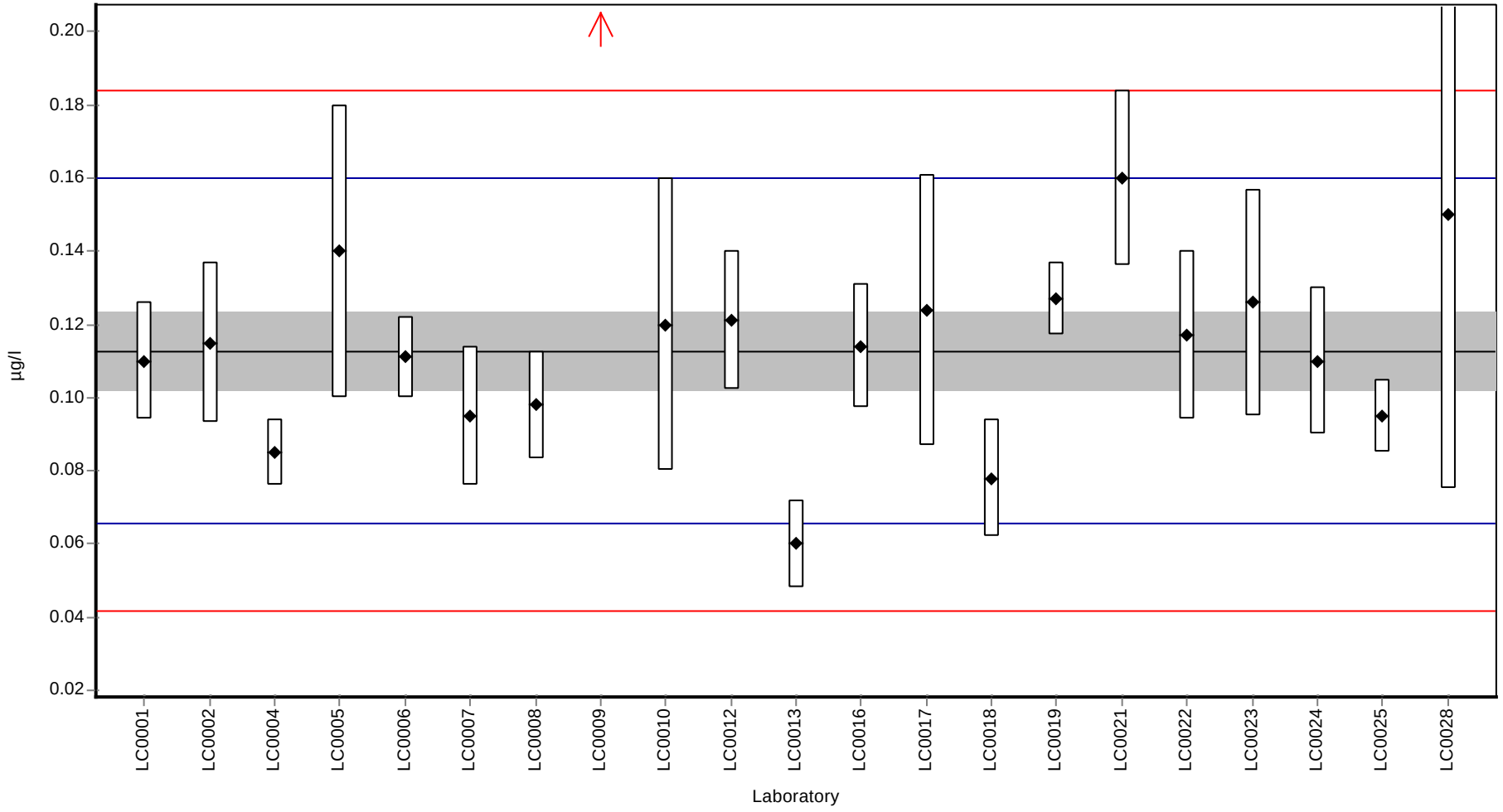
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.110	0.016	97.5	-0.1	
LC0002	0.115	0.0219	102.0	0.1	
LC0003	-	-	-	-	
LC0004	0.085	0.009	75.4	-1.2	
LC0005	0.140	0.040	124.1	1.1	
LC0006	0.111	0.011	98.4	-0.1	
LC0007	0.095	0.019	84.2	-0.8	
LC0008	0.098	0.0147	86.9	-0.6	
LC0009	0.533	0.053	472.5	17.8	H
LC0010	0.120	0.040	106.4	0.3	
LC0011	-	-	-	-	
LC0012	0.121	0.019	107.3	0.3	
LC0013	0.060	0.012	53.2	-2.2	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	0.114	0.017	101.1	0.1	
LC0017	0.124	0.037	109.9	0.5	
LC0018	0.078	0.016	69.1	-1.5	
LC0019	0.127	0.010	112.6	0.6	
LC0020	-	-	-	-	
LC0021	0.160	0.024	141.8	2.0	
LC0022	0.117	0.023	103.7	0.2	
LC0023	0.126	0.031	111.7	0.6	
LC0024	0.110	0.020	97.5	-0.1	
LC0025	0.095	0.010	84.2	-0.8	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	0.150	0.075	133.0	1.6	

Characteristics of parameter

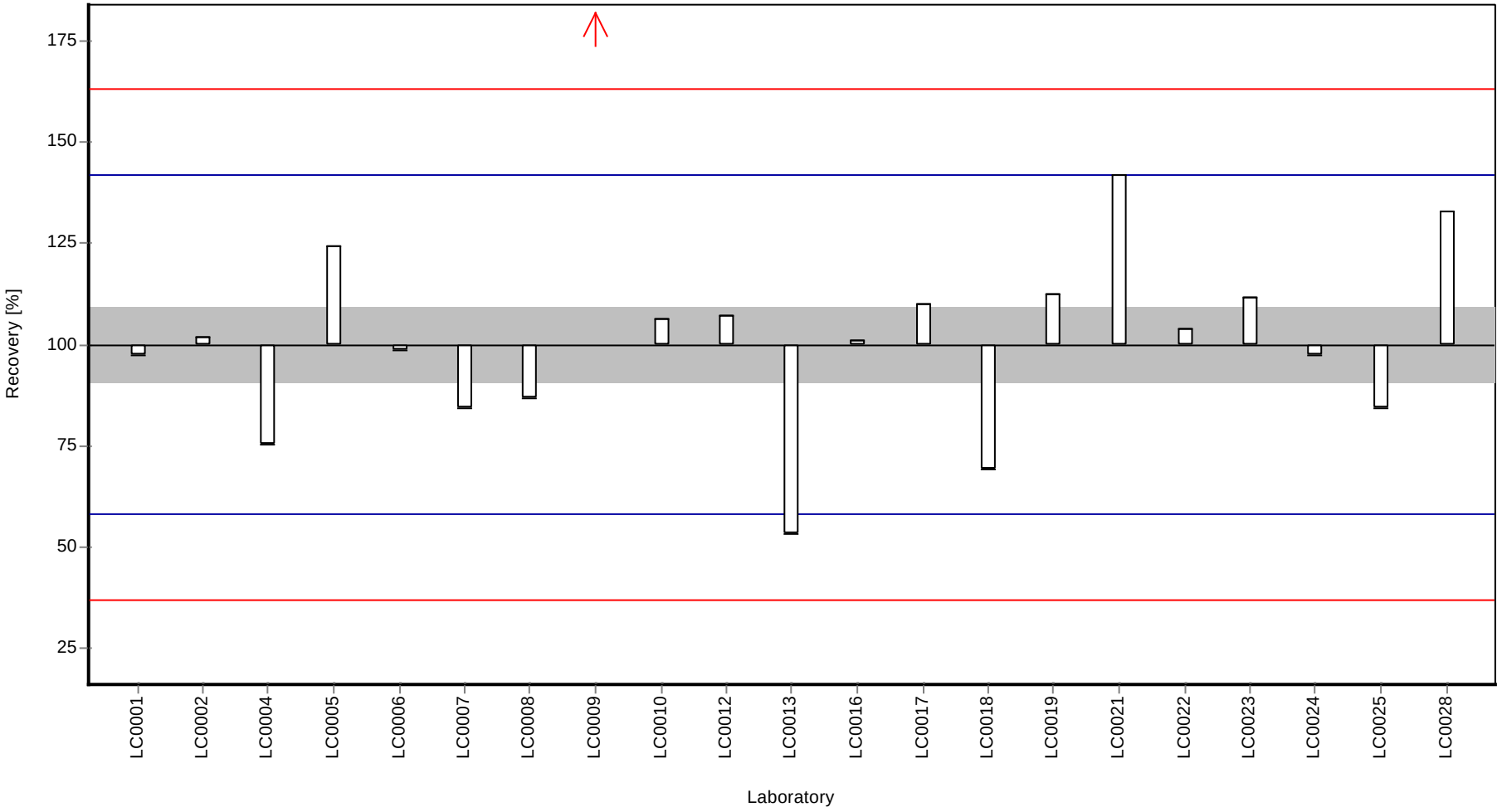
	all results	without outliners	Unit
Mean ± Cl (99%)	0.133 ± 0.0619	0.113 ± 0.0159	µg/l
Minimum	0.06	0.06	µg/l
Maximum	0.533	0.16	µg/l
Standard deviation	0.0946	0.0237	µg/l
rel. Standard deviation	71.2	21	%
n	21	20	-

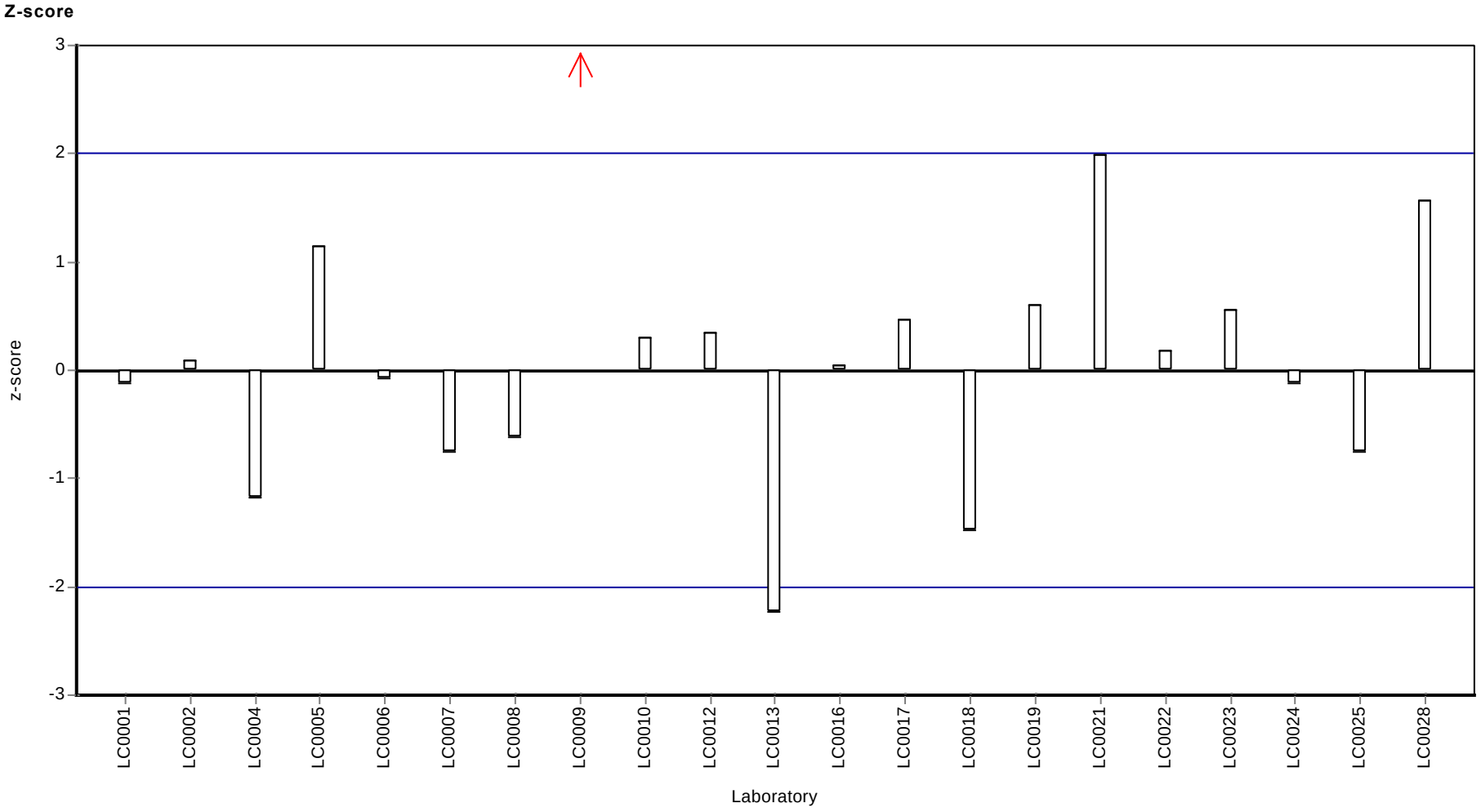
Graphical presentation of results

Results



Recovery rate




Z-score
3
2
1
0
-1
-2
-3
z-score
LC0001
LC0002
LC0004
LC0005
LC0006
LC0007
LC0008
LC0009
LC0010
LC0012
LC0013
LC0016
LC0017
LC0018
LC0019
LC0021
LC0022
LC0023
LC0024
LC0025
LC0028
Laboratory

Parameter oriented report

HB89 B

Diuron

Unit	µg/l
Mean ± Cl (99%)	-
Minimum - Maximum	0.006 - 0.006
Check value ± U	< 0.025 (NG)

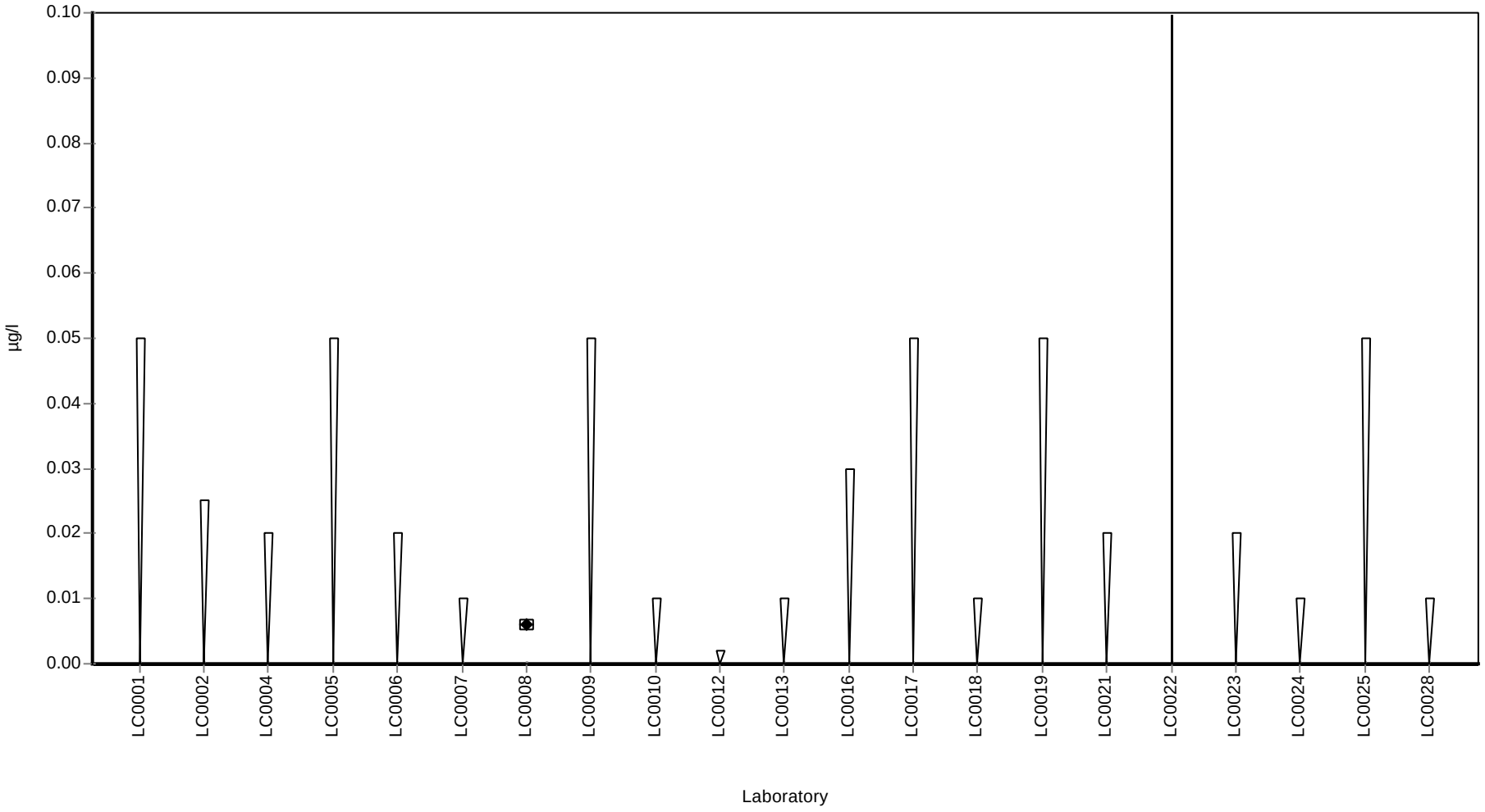
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 0.05 (LOQ)	-	-	-	
LC0002	< 0.025 (LOQ)	-	-	-	
LC0003	-	-	-	-	
LC0004	< 0.02 (LOQ)	-	-	-	
LC0005	< 0.05 (LOQ)	-	-	-	
LC0006	< 0.02 (LOQ)	-	-	-	
LC0007	< 0.01 (LOQ)	-	-	-	
LC0008	0.006	0.0009	-	-	
LC0009	< 0.05 (LOQ)	-	-	-	
LC0010	< 0.01 (LOQ)	-	-	-	
LC0011	-	-	-	-	
LC0012	< 0.002 (LOQ)	-	-	-	
LC0013	< 0.01 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	< 0.03 (LOQ)	-	-	-	
LC0017	< 0.05 (LOQ)	-	-	-	
LC0018	< 0.01 (LOQ)	-	-	-	
LC0019	< 0.05 (LOQ)	-	-	-	
LC0020	-	-	-	-	
LC0021	< 0.02 (LOQ)	-	-	-	
LC0022	< 10 (LOQ)	-	-	-	
LC0023	< 0.02 (LOQ)	-	-	-	
LC0024	< 0.01 (LOQ)	-	-	-	
LC0025	< 0.05 (LOQ)	-	-	-	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	< 0.01 (LOQ)	-	-	-	

Characteristics of parameter

	all results	without outliners	Unit
Mean ± Cl (99%)	0.006	-	µg/l
Minimum	0.006	0.006	µg/l
Maximum	0.006	0.006	µg/l
Standard deviation	-	-	µg/l
rel. Standard deviation	-	-	%
n	1	1	-

Graphical presentation of results

Results



Parameter oriented report

HB89 A

Chloridazon

Unit	µg/l
Mean ± Cl (99%)	0.503 ± 0.033
Minimum - Maximum	0.442 - 0.59
Check value ± U	0.58 ± 0.028

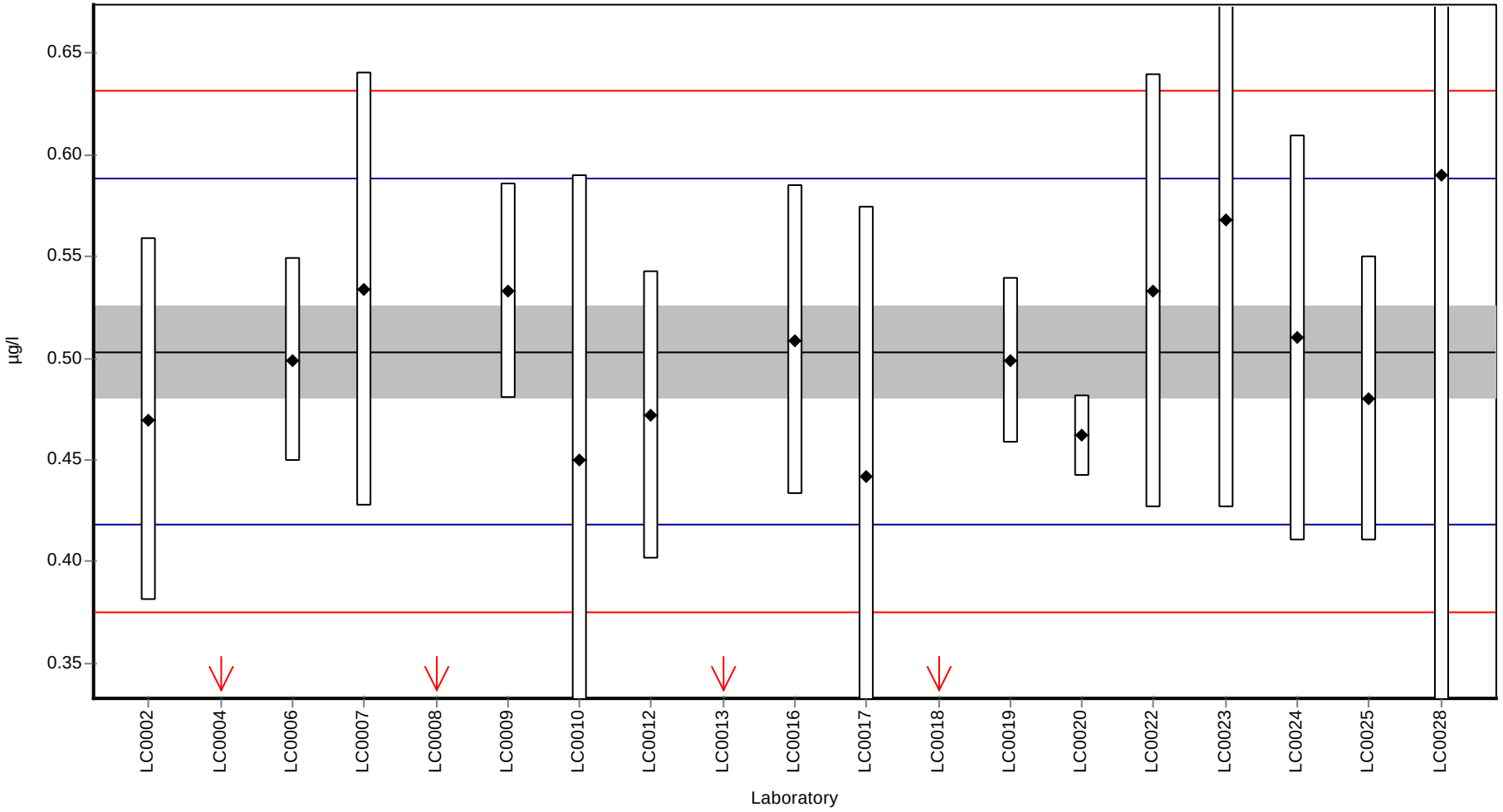
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.4697	0.0892	93.3	-0.8	
LC0003	-	-	-	-	
LC0004	0.254	0.038	50.5	-5.8	H
LC0005	-	-	-	-	
LC0006	0.499	0.050	99.1	-0.1	
LC0007	0.534	0.107	106.1	0.7	
LC0008	0.274	0.0411	54.4	-5.4	H
LC0009	0.533	0.053	105.9	0.7	
LC0010	0.450	0.140	89.4	-1.3	
LC0011	-	-	-	-	
LC0012	0.472	0.071	93.8	-0.7	
LC0013	0.278	0.111	55.2	-5.3	H
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	0.509	0.076	101.1	0.1	
LC0017	0.442	0.133	87.8	-1.4	
LC0018	0.254	0.051	50.5	-5.8	H
LC0019	0.499	0.041	99.1	-0.1	
LC0020	0.462	0.020	91.8	-1.0	
LC0021	-	-	-	-	
LC0022	0.533	0.107	105.9	0.7	
LC0023	0.568	0.142	112.8	1.5	
LC0024	0.510	0.100	101.3	0.2	
LC0025	0.480	0.070	95.4	-0.5	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	0.590	0.300	117.2	2.0	

Characteristics of parameter

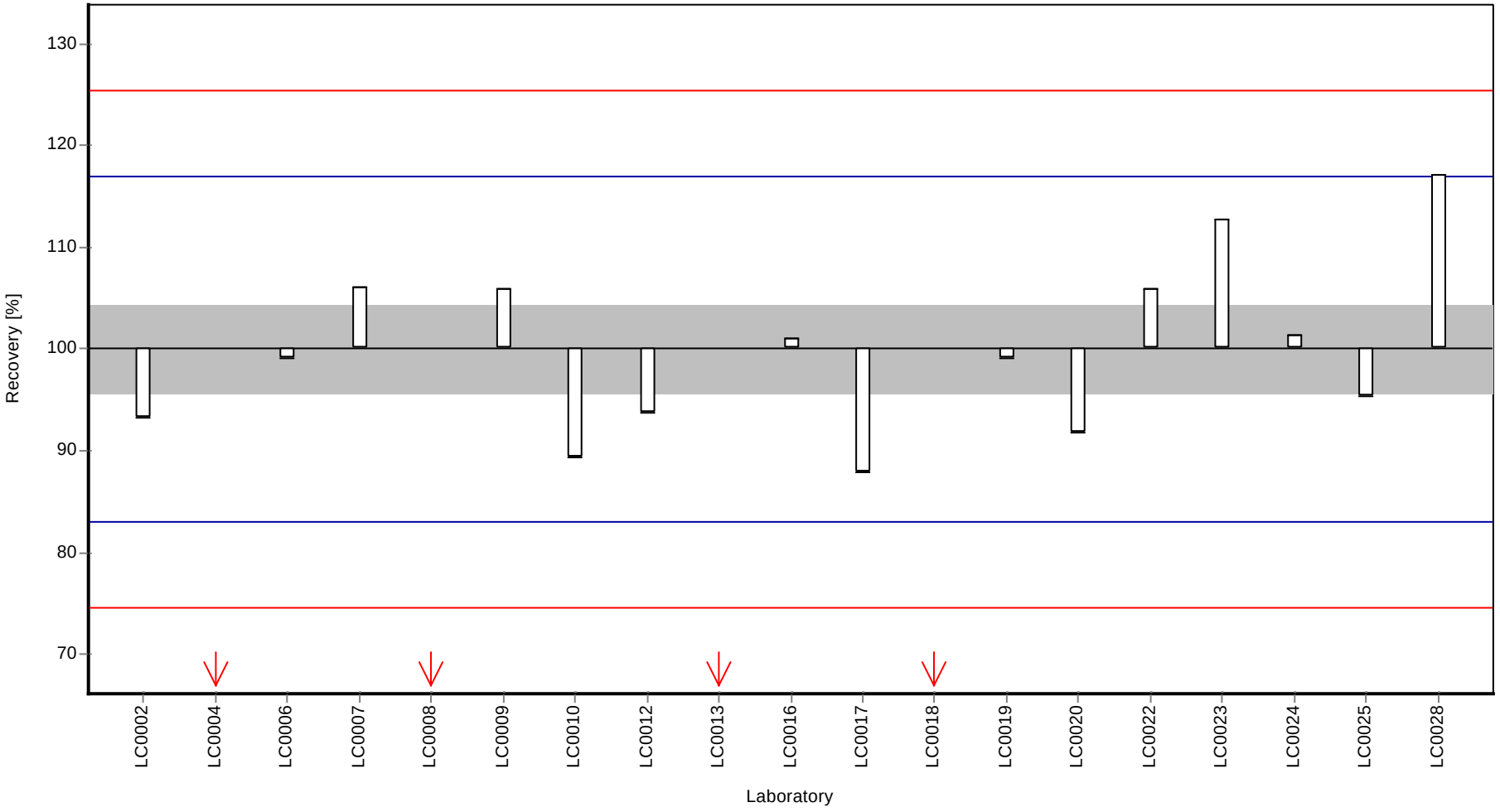
	all results	without outliners	Unit
Mean ± Cl (99%)	0.453 ± 0.0735	0.503 ± 0.033	µg/l
Minimum	0.254	0.442	µg/l
Maximum	0.59	0.59	µg/l
Standard deviation	0.107	0.0427	µg/l
rel. Standard deviation	23.6	8.47	%
n	19	15	-

Graphical presentation of results

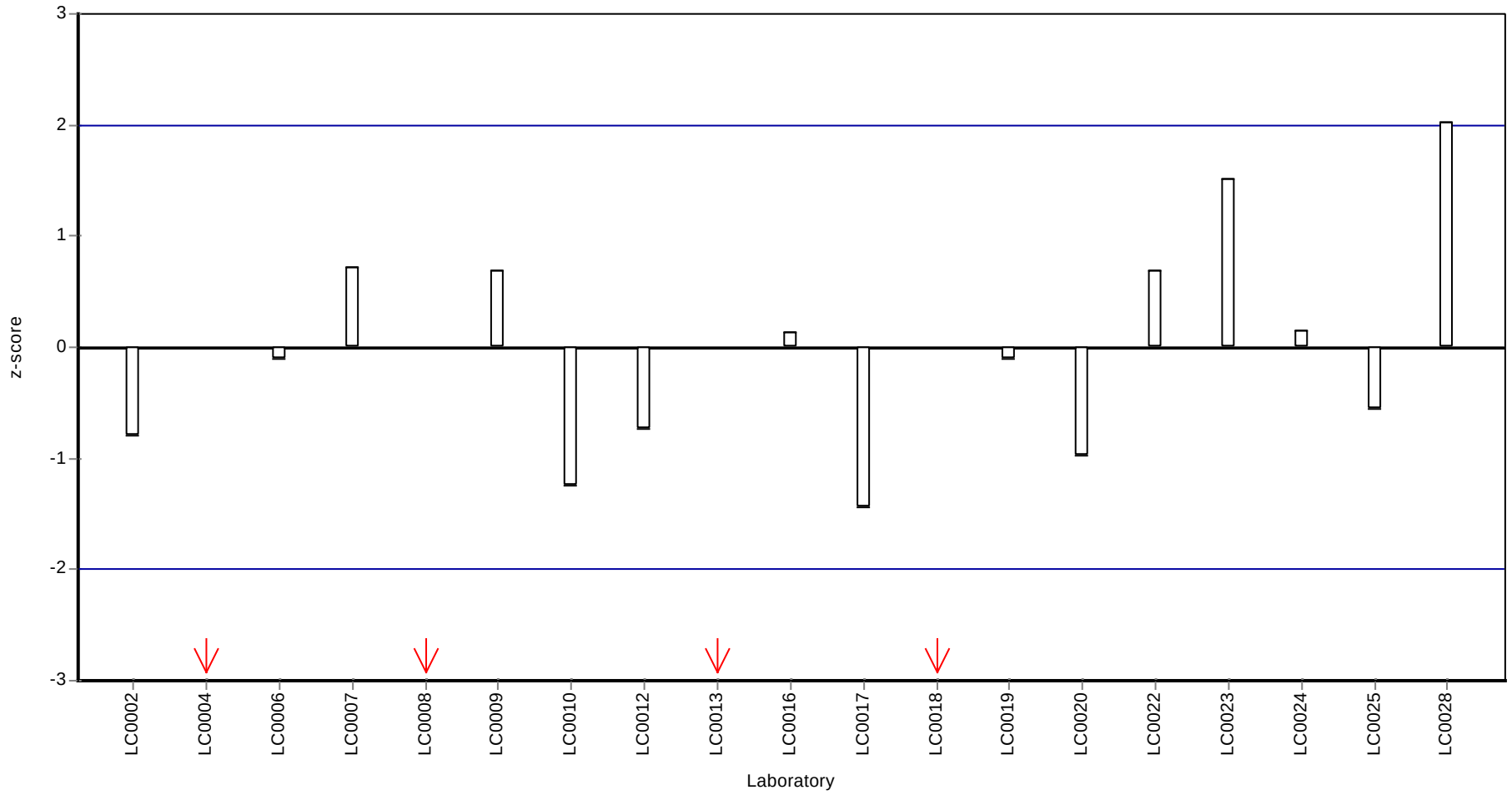
Results



Recovery rate



Z-score


3
2
1
0
-1
-2
-3
z-score
LC0002
LC0004
LC0006
LC0007
LC0008
LC0009
LC0010
LC0012
LC0013
LC0016
LC0017
LC0018
LC0019
LC0020
LC0022
LC0023
LC0024
LC0025
LC0028
Laboratory

Parameter oriented report

HB89 B

Chloridazon

Unit	µg/l
Mean ± Cl (99%)	-
Minimum - Maximum	-
Check value ± U	< 0.025 (NG)

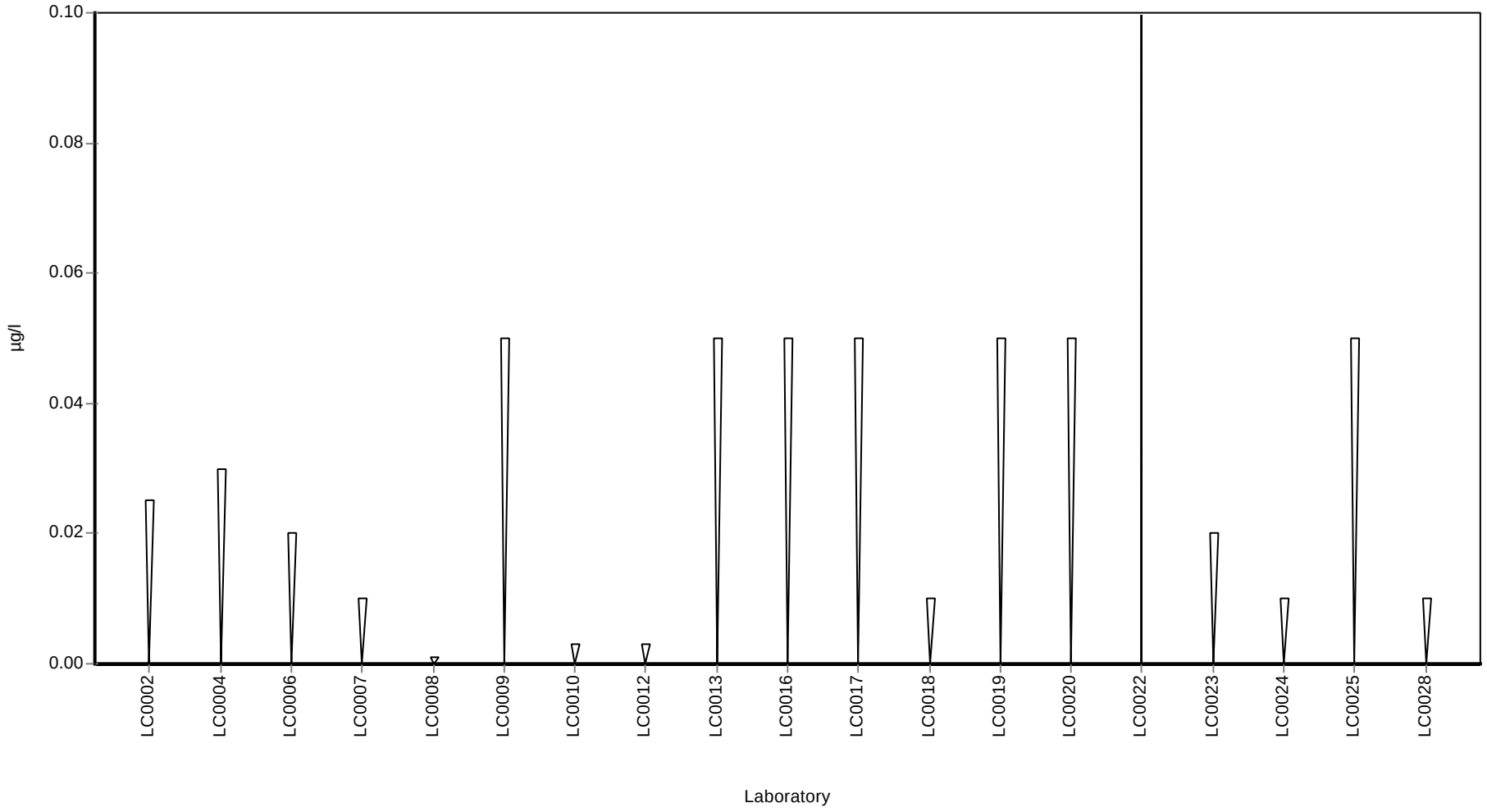
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	< 0.025 (LOQ)	-	-	-	
LC0003	-	-	-	-	
LC0004	< 0.03 (LOQ)	-	-	-	
LC0005	-	-	-	-	
LC0006	< 0.02 (LOQ)	-	-	-	
LC0007	< 0.01 (LOQ)	-	-	-	
LC0008	< 0.001 (LOQ)	-	-	-	
LC0009	< 0.05 (LOQ)	-	-	-	
LC0010	<0.003 (LOD)	-	-	-	
LC0011	-	-	-	-	
LC0012	< 0.003 (LOQ)	-	-	-	
LC0013	< 0.05 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	< 0.05 (LOQ)	-	-	-	
LC0017	< 0.05 (LOQ)	-	-	-	
LC0018	< 0.01 (LOQ)	-	-	-	
LC0019	< 0.05 (LOQ)	-	-	-	
LC0020	< 0.05 (LOQ)	-	-	-	
LC0021	-	-	-	-	
LC0022	< 10 (LOQ)	-	-	-	
LC0023	< 0.02 (LOQ)	-	-	-	
LC0024	< 0.01 (LOQ)	-	-	-	
LC0025	< 0.05 (LOQ)	-	-	-	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	< 0.01 (LOQ)	-	-	-	

Characteristics of parameter

	all results	without outliners	Unit
Mean ± Cl (99%)	-	-	µg/l
Minimum	-	-	µg/l
Maximum	-	-	µg/l
Standard deviation	-	-	µg/l
rel. Standard deviation	-	-	%
n	0	0	-

Graphical presentation of results

Results



Parameter oriented report

HB89 A

Desphenylchloridazon

Unit	µg/l
Mean ± Cl (99%)	-
Minimum - Maximum	-
Check value ± U	< 0.025 (NG)

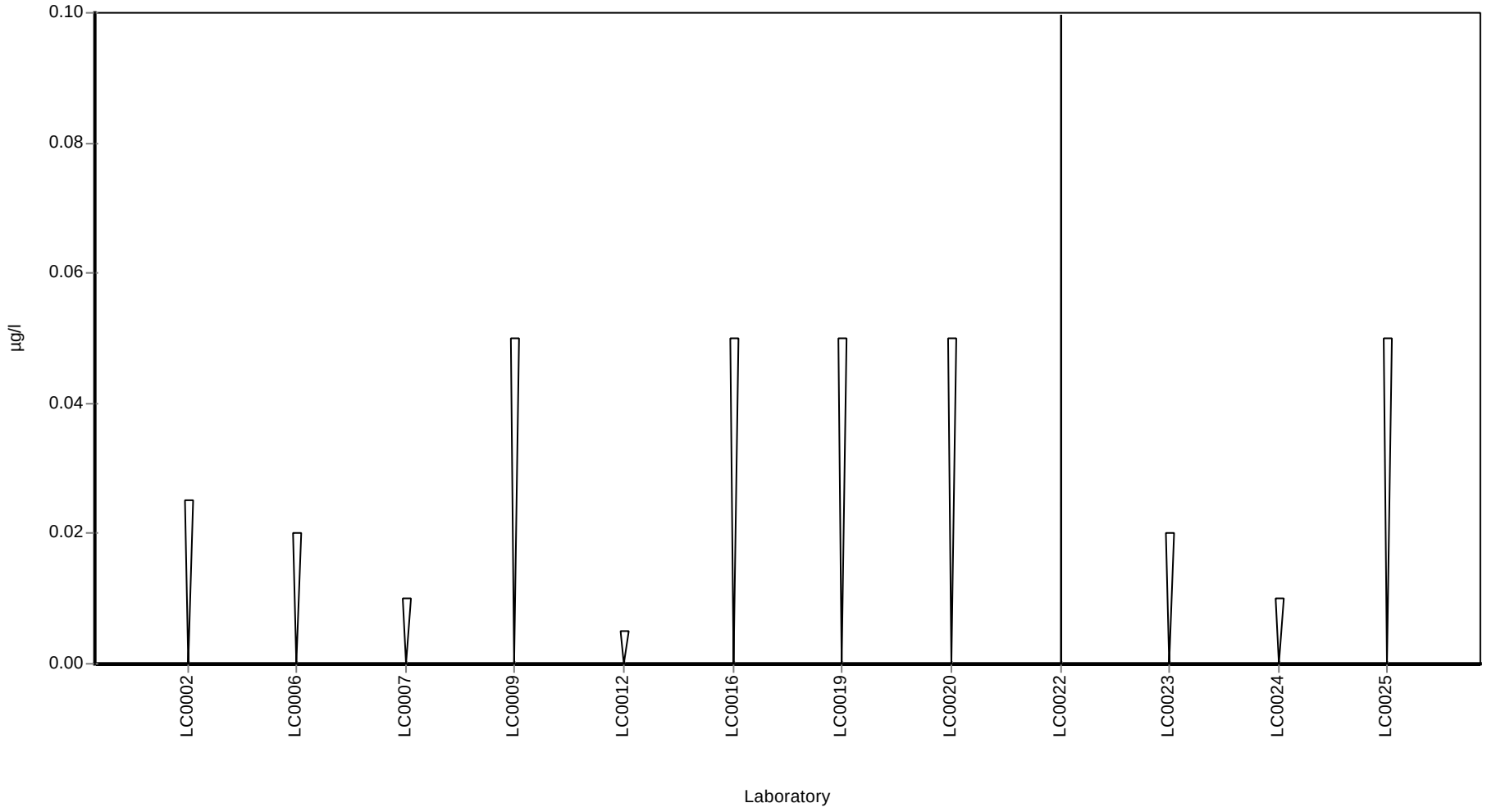
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	< 0.025 (LOQ)	-	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	< 0.02 (LOQ)	-	-	-	
LC0007	< 0.01 (LOQ)	-	-	-	
LC0008	-	-	-	-	
LC0009	< 0.05 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	< 0.005 (LOQ)	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	< 0.05 (LOQ)	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	< 0.05 (LOQ)	-	-	-	
LC0020	< 0.05 (LOQ)	-	-	-	
LC0021	-	-	-	-	
LC0022	< 10 (LOQ)	-	-	-	
LC0023	< 0.02 (LOQ)	-	-	-	
LC0024	< 0.01 (LOQ)	-	-	-	
LC0025	< 0.05 (LOQ)	-	-	-	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	

Characteristics of parameter

	all results	without outliners	Unit
Mean ± Cl (99%)	-	-	µg/l
Minimum	-	-	µg/l
Maximum	-	-	µg/l
Standard deviation	-	-	µg/l
rel. Standard deviation	-	-	%
n	0	0	-

Graphical presentation of results

Results



Parameter oriented report

HB89 B

Desphenylchloridazon

Unit	µg/l
Mean ± Cl (99%)	0.111 ± 0.0232
Minimum - Maximum	0.056 - 0.155
Check value ± U	0.11 ± 0.011

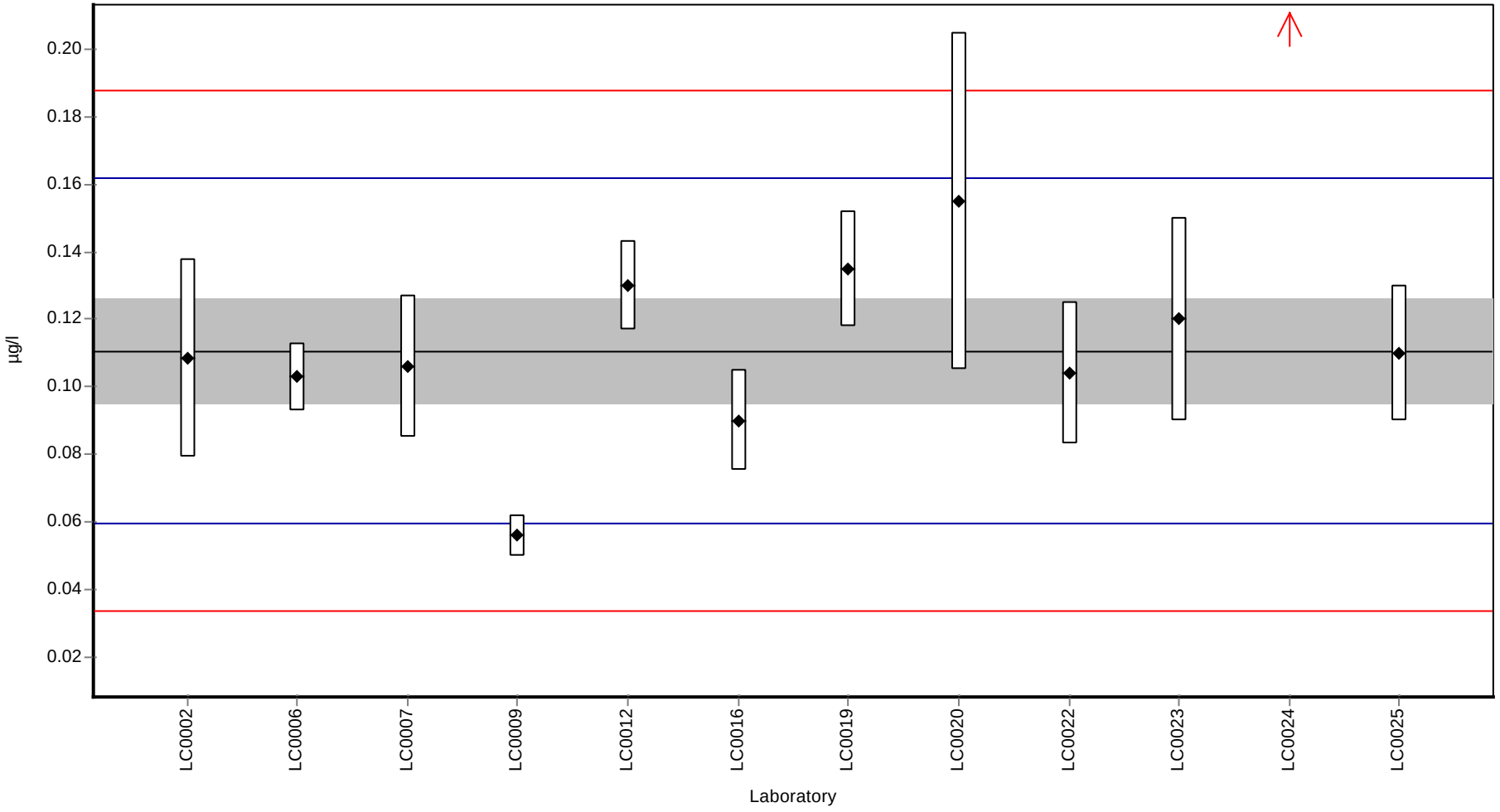
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.1086	0.0293	98.1	-0.1	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.103	0.010	93.1	-0.3	
LC0007	0.106	0.021	95.8	-0.2	
LC0008	-	-	-	-	
LC0009	0.056	0.006	50.6	-2.1	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	0.130	0.013	117.4	0.8	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	0.090	0.015	81.3	-0.8	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0.135	0.017	122.0	0.9	
LC0020	0.155	0.050	140.0	1.7	
LC0021	-	-	-	-	
LC0022	0.104	0.021	94.0	-0.3	
LC0023	0.120	0.030	108.4	0.4	
LC0024	0.230	0.040	207.8	4.7	H
LC0025	0.110	0.020	99.4	0.0	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	

Characteristics of parameter

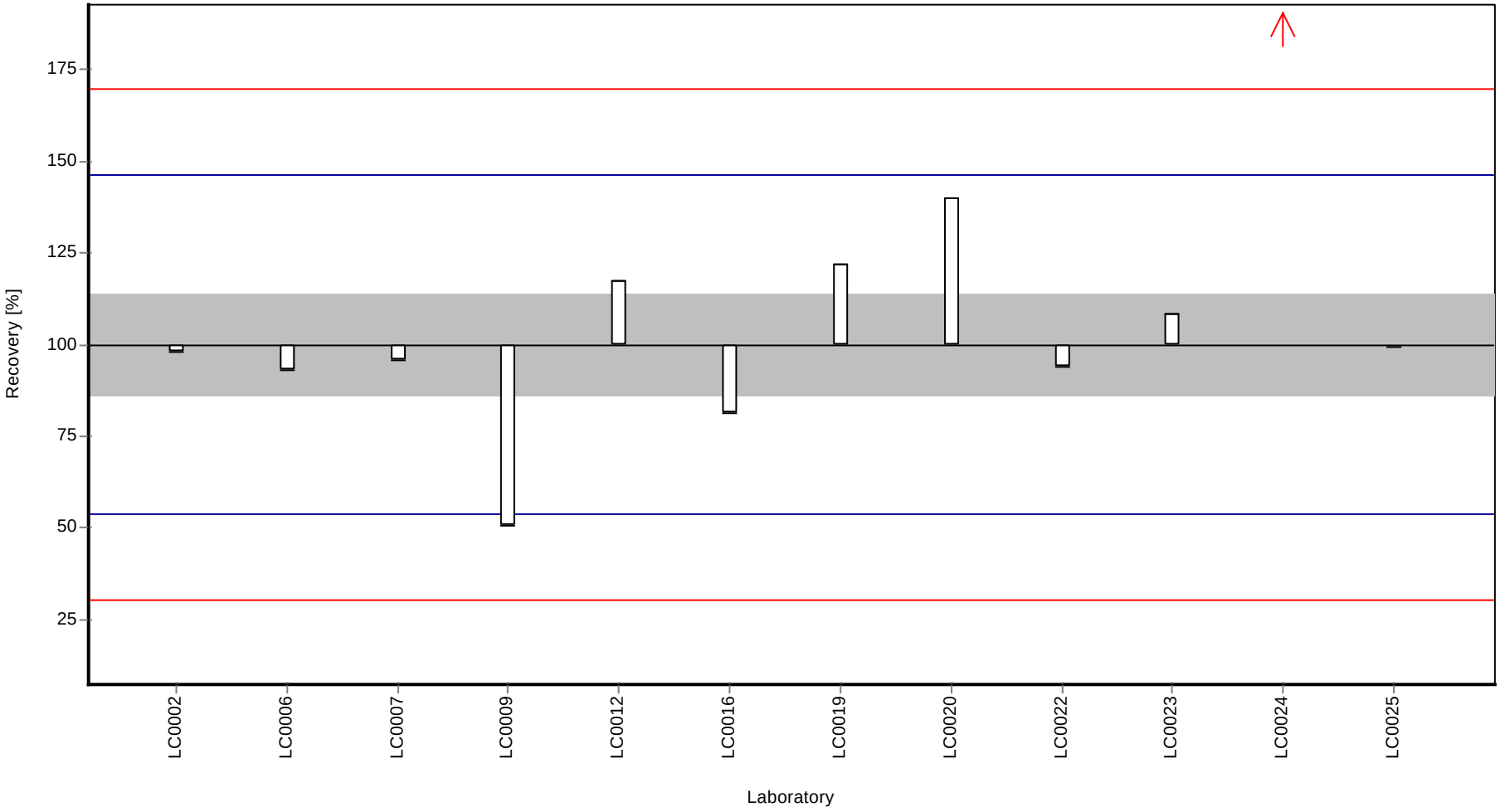
	all results	without outliners	Unit
Mean ± Cl (99%)	0.121 ± 0.0366	0.111 ± 0.0232	µg/l
Minimum	0.056	0.056	µg/l
Maximum	0.23	0.155	µg/l
Standard deviation	0.0422	0.0256	µg/l
rel. Standard deviation	35	23.1	%
n	12	11	-

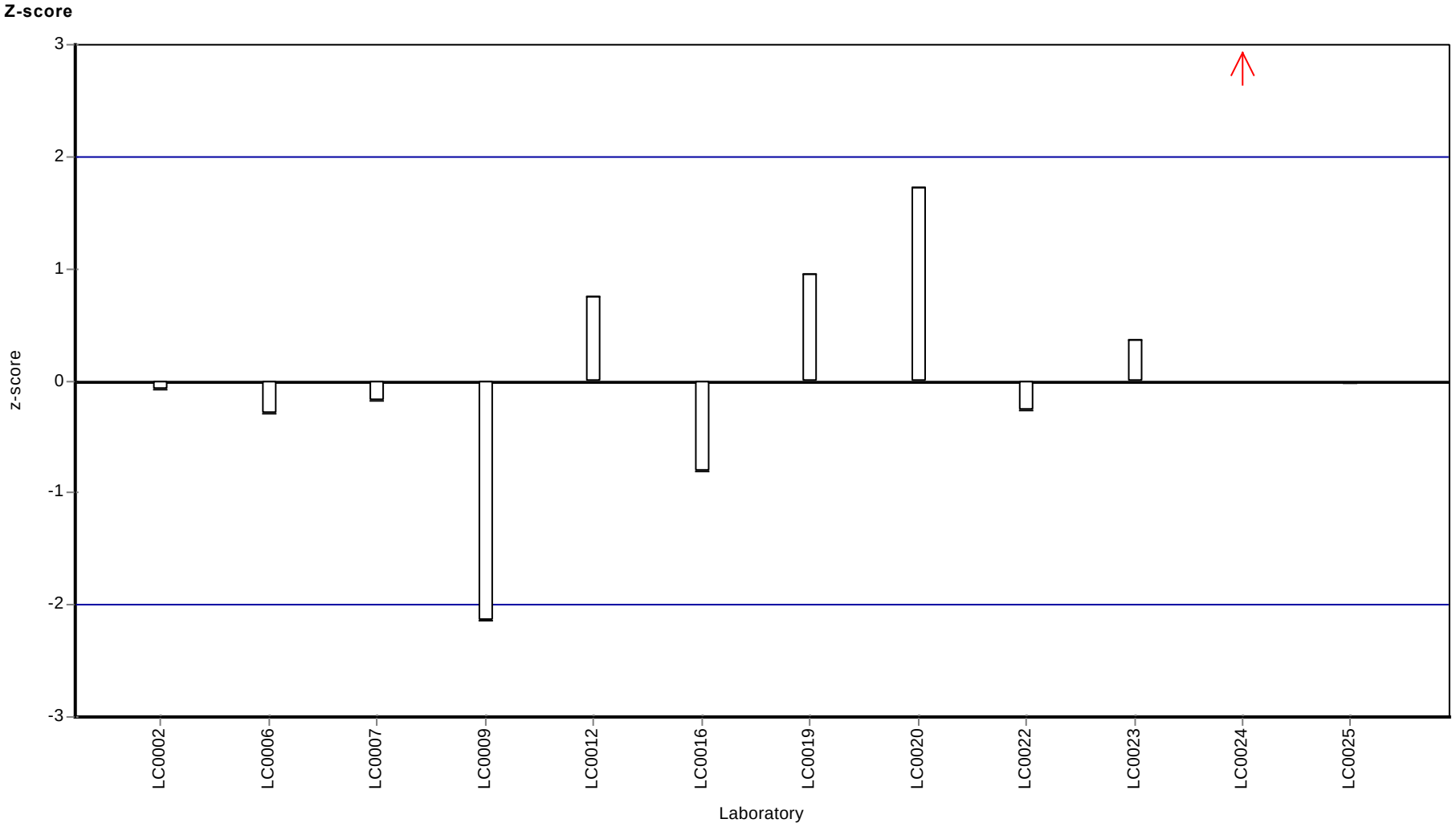
Graphical presentation of results

Results



Recovery rate




Z-score
3
2
1
0
-1
-2
-3
z-score
LC0002
LC0006
LC0007
LC0009
LC0012
LC0016
LC0019
LC0020
LC0022
LC0023
LC0024
LC0025
Laboratory

Parameter oriented report

HB89 A

Methyldesphenylchloridazon

Unit	µg/l
Mean ± Cl (99%)	-
Minimum - Maximum	-
Check value ± U	< 0.025 (NG)

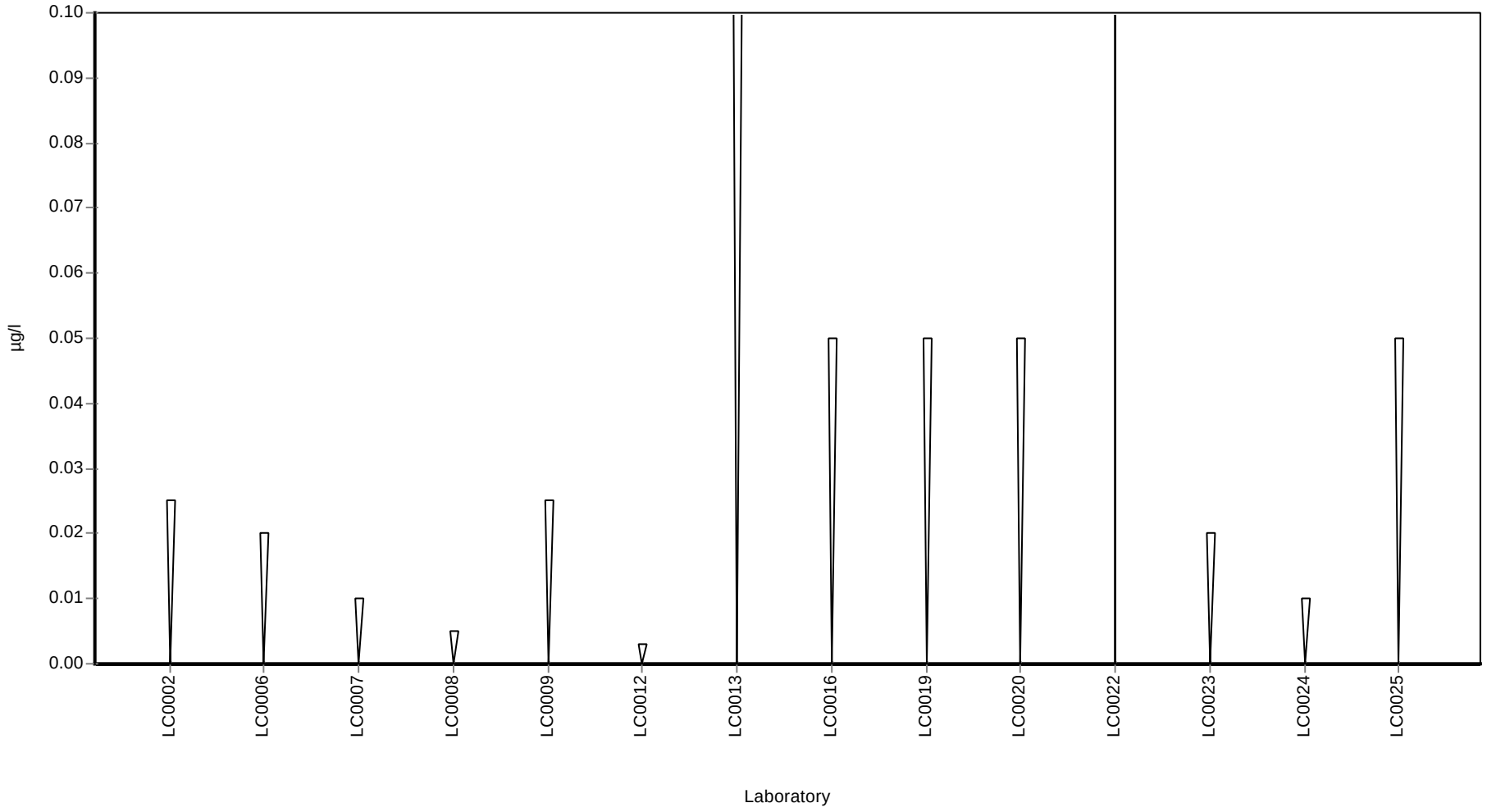
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	< 0.025 (LOQ)	-	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	< 0.02 (LOQ)	-	-	-	
LC0007	< 0.01 (LOQ)	-	-	-	
LC0008	< 0.005 (LOQ)	-	-	-	
LC0009	< 0.025 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	< 0.003 (LOQ)	-	-	-	
LC0013	< 0.1 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	< 0.05 (LOQ)	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	< 0.05 (LOQ)	-	-	-	
LC0020	< 0.05 (LOQ)	-	-	-	
LC0021	-	-	-	-	
LC0022	< 10 (LOQ)	-	-	-	
LC0023	< 0.02 (LOQ)	-	-	-	
LC0024	< 0.01 (LOQ)	-	-	-	
LC0025	< 0.05 (LOQ)	-	-	-	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	

Characteristics of parameter

	all results	without outliners	Unit
Mean ± Cl (99%)	-	-	µg/l
Minimum	-	-	µg/l
Maximum	-	-	µg/l
Standard deviation	-	-	µg/l
rel. Standard deviation	-	-	%
n	0	0	-

Graphical presentation of results

Results



Parameter oriented report

HB89 B

Methyldesphenylchloridazon

Unit	µg/l
Mean ± Cl (99%)	0.137 ± 0.0101
Minimum - Maximum	0.121 - 0.156
Check value ± U	0.14 ± 0.00075

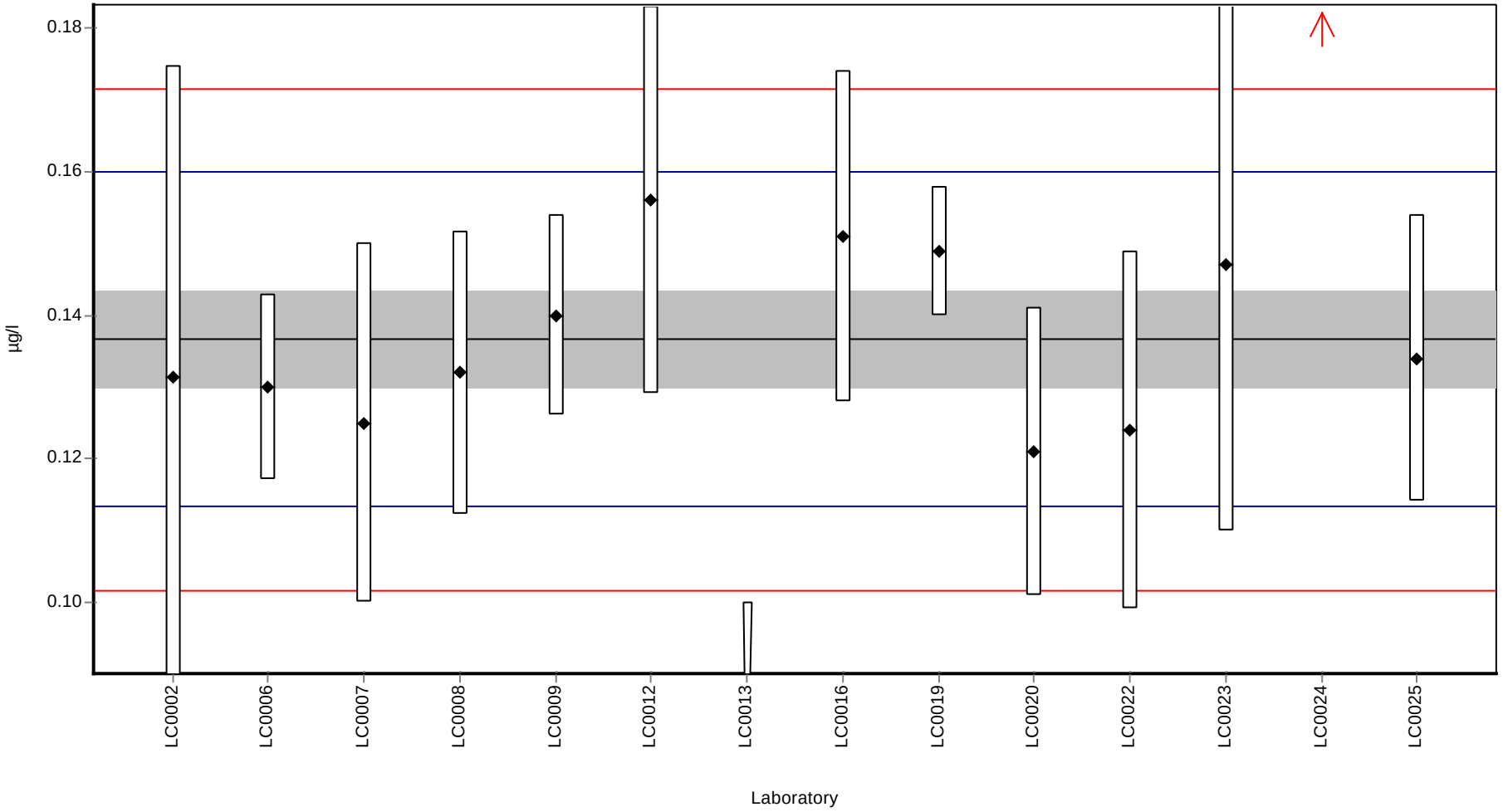
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.1314	0.0434	96.1	-0.5	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.130	0.013	95.1	-0.6	
LC0007	0.125	0.025	91.4	-1.0	
LC0008	0.132	0.0198	96.6	-0.4	
LC0009	0.140	0.014	102.4	0.3	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	0.156	0.027	114.1	1.7	
LC0013	< 0.1 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	0.151	0.023	110.5	1.2	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0.149	0.009	109.0	1.1	
LC0020	0.121	0.020	88.5	-1.3	
LC0021	-	-	-	-	
LC0022	0.124	0.025	90.7	-1.1	
LC0023	0.147	0.037	107.5	0.9	
LC0024	0.230	0.040	168.3	8.0	H
LC0025	0.134	0.020	98.0	-0.2	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	

Characteristics of parameter

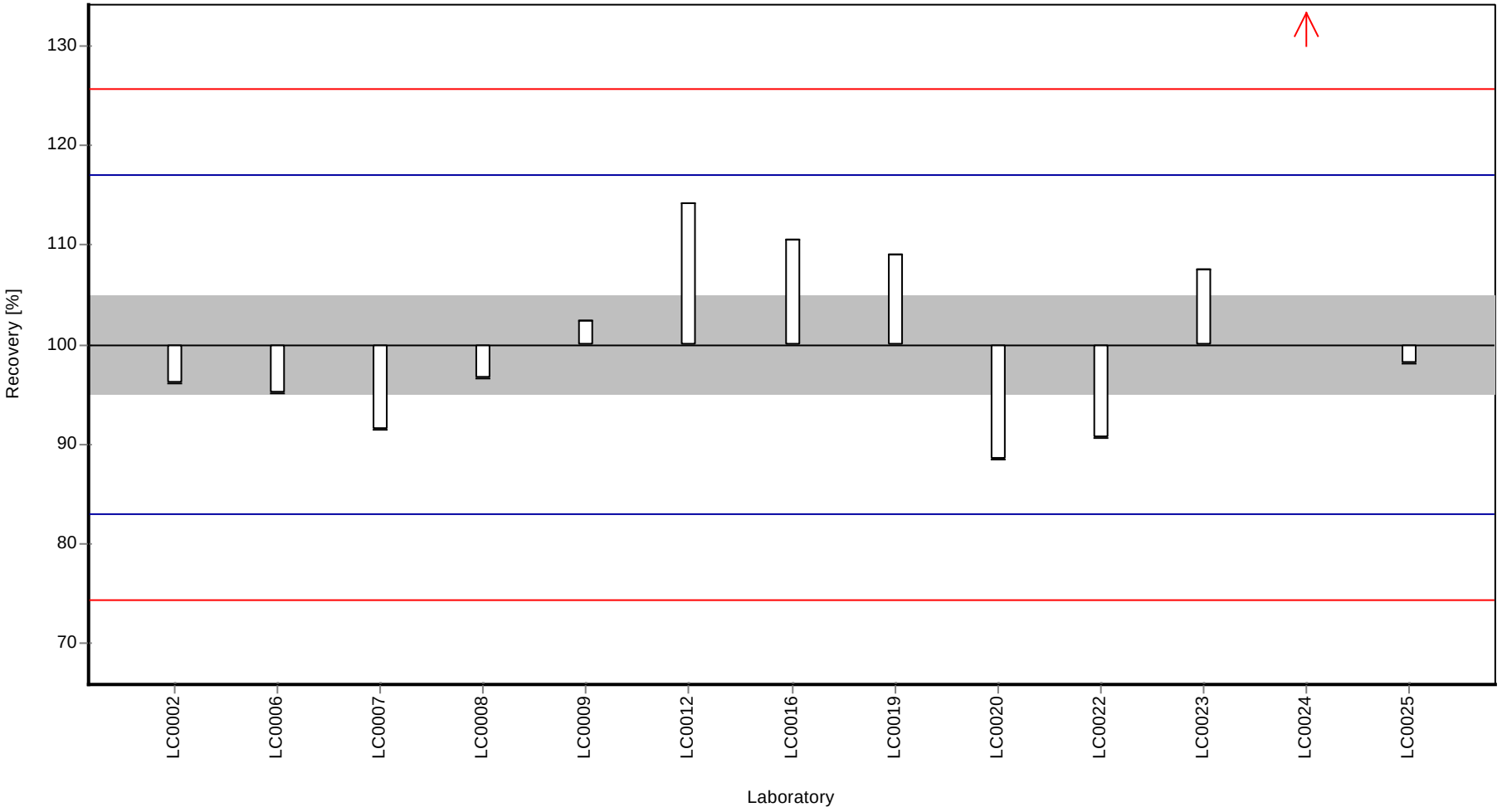
	all results	without outliners	Unit
Mean ± Cl (99%)	0.144 ± 0.0234	0.137 ± 0.0101	µg/l
Minimum	0.121	0.121	µg/l
Maximum	0.23	0.156	µg/l
Standard deviation	0.0282	0.0116	µg/l
rel. Standard deviation	19.6	8.52	%
n	13	12	-

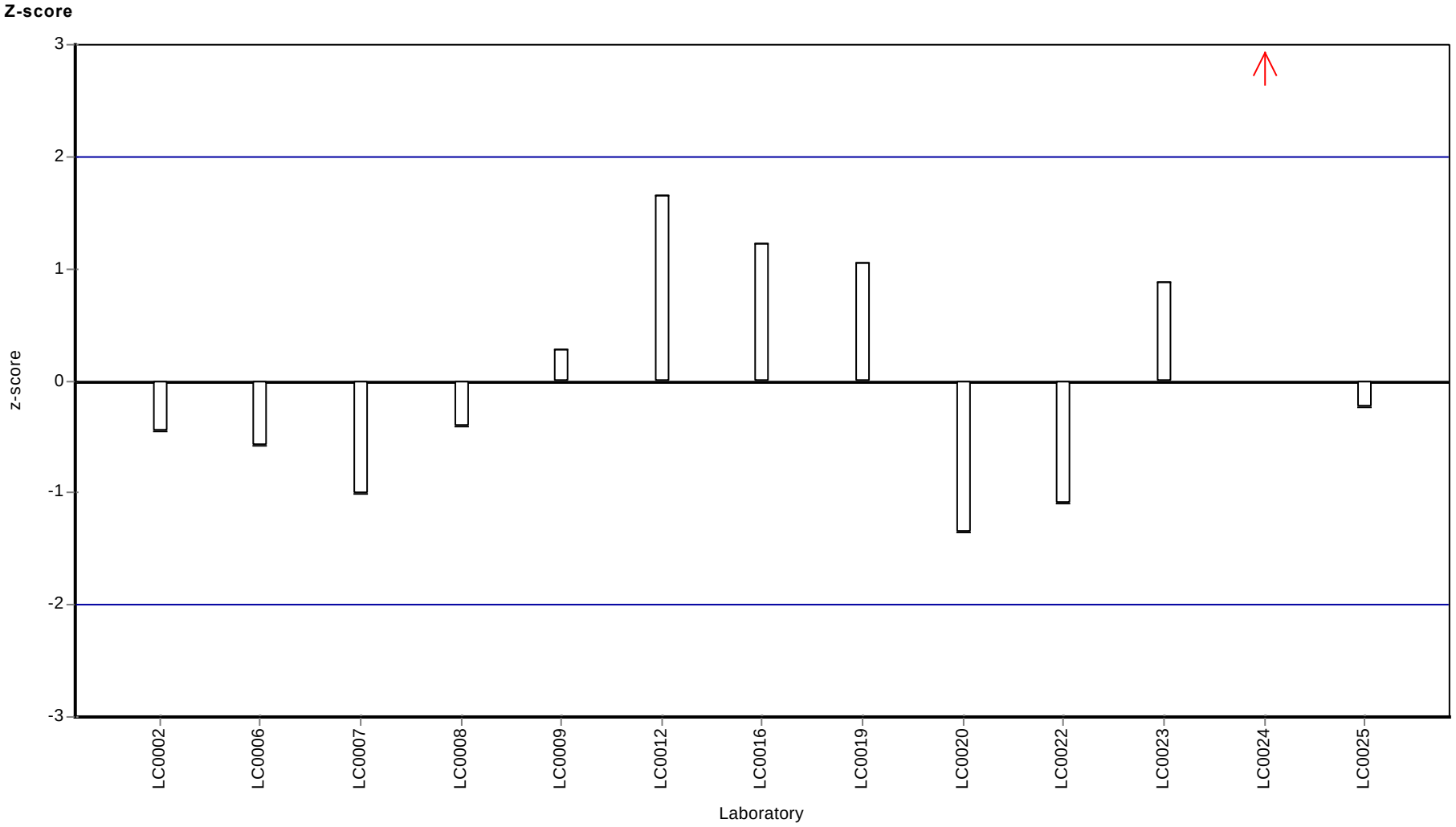
Graphical presentation of results

Results



Recovery rate




Z-score
3
2
1
0
-1
-2
-3
z-score
LC0002
LC0006
LC0007
LC0008
LC0009
LC0012
LC0016
LC0019
LC0020
LC0022
LC0023
LC0024
LC0025
Laboratory

Parameter oriented report

HB89 A

Isoproturon

Unit	µg/l
Mean ± Cl (99%)	0.246 ± 0.0136
Minimum - Maximum	0.21 - 0.285
Check value ± U	0.24 ± 0.003

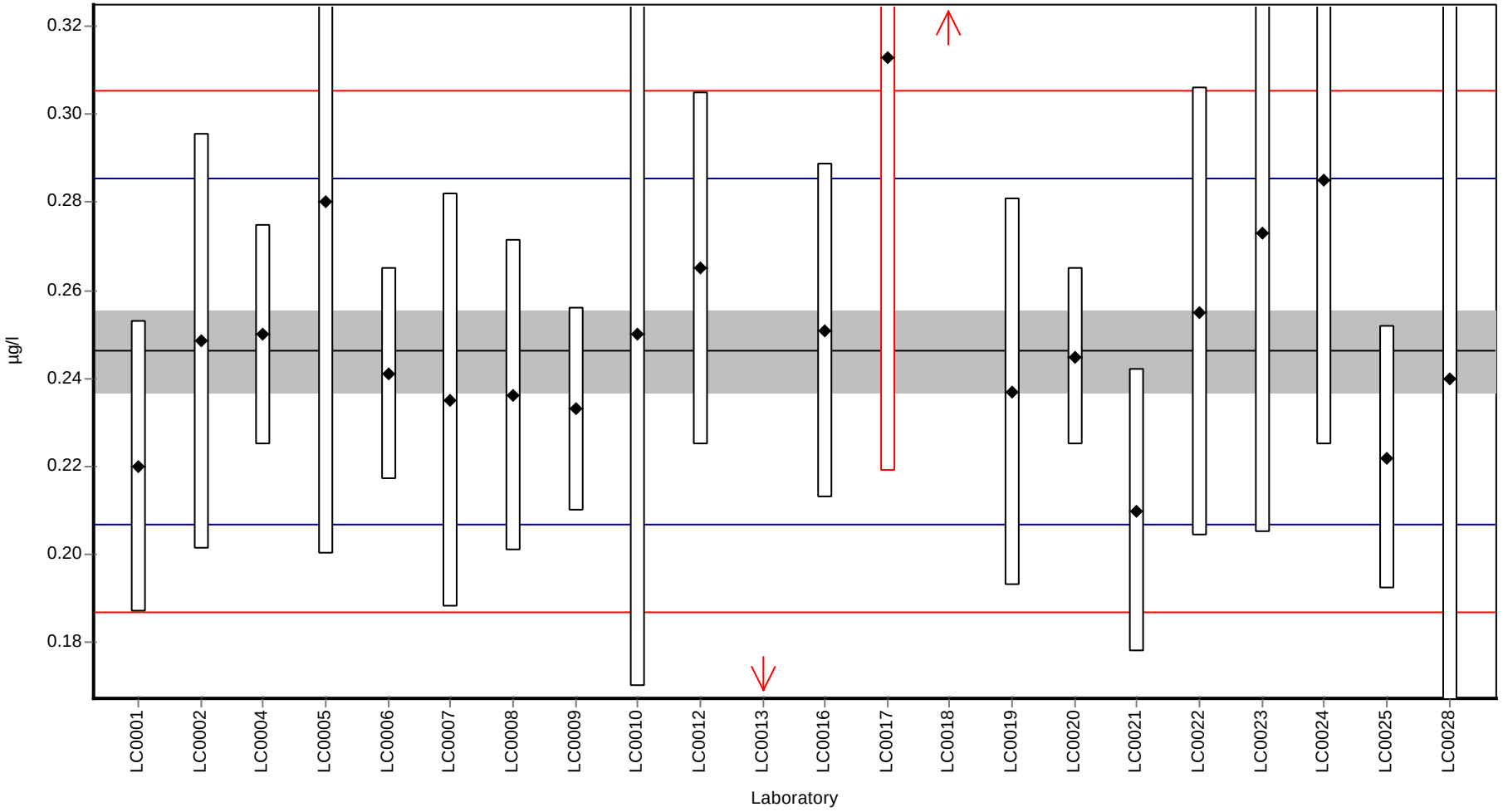
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.220	0.033	89.4	-1.3	
LC0002	0.2485	0.0472	101.0	0.1	
LC0003	-	-	-	-	
LC0004	0.250	0.025	101.6	0.2	
LC0005	0.280	0.080	113.8	1.7	
LC0006	0.241	0.024	97.9	-0.3	
LC0007	0.235	0.047	95.5	-0.6	
LC0008	0.236	0.0354	95.9	-0.5	
LC0009	0.233	0.023	94.7	-0.7	
LC0010	0.250	0.080	101.6	0.2	
LC0011	-	-	-	-	
LC0012	0.265	0.040	107.7	1.0	
LC0013	0.132	0.026	53.6	-5.8	H
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	0.251	0.038	102.0	0.2	
LC0017	0.313	0.094	127.2	3.4	H
LC0018	0.341	0.068	138.5	4.8	H
LC0019	0.237	0.044	96.3	-0.5	
LC0020	0.245	0.020	99.5	-0.1	
LC0021	0.210	0.032	85.3	-1.8	
LC0022	0.255	0.051	103.6	0.4	
LC0023	0.273	0.068	110.9	1.4	
LC0024	0.285	0.060	115.8	2.0	
LC0025	0.222	0.030	90.2	-1.2	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	0.240	0.120	97.5	-0.3	

Characteristics of parameter

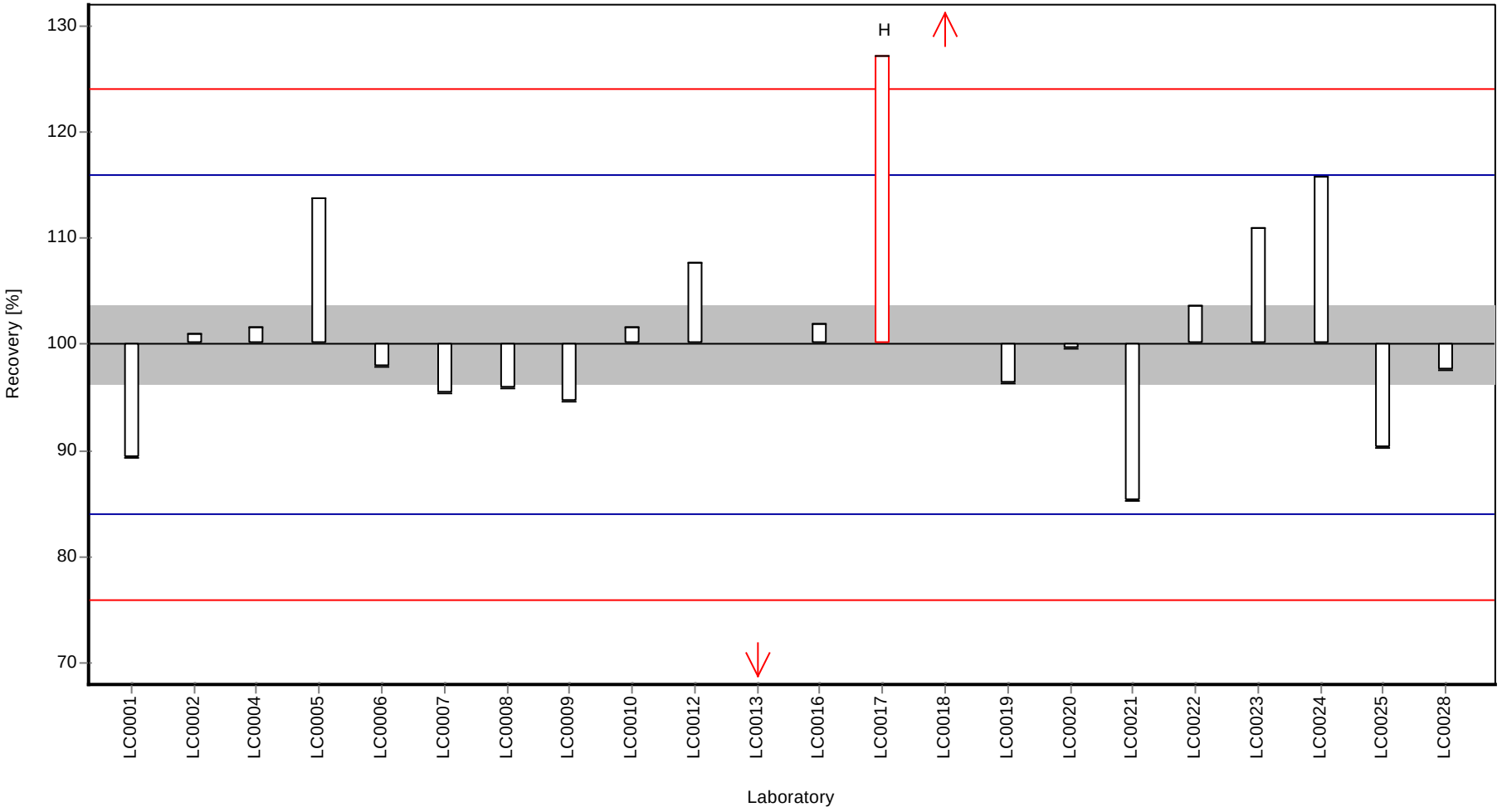
	all results	without outliners	Unit
Mean ± Cl (99%)	0.248 ± 0.0255	0.246 ± 0.0136	µg/l
Minimum	0.132	0.21	µg/l
Maximum	0.341	0.285	µg/l
Standard deviation	0.0399	0.0197	µg/l
rel. Standard deviation	16.1	8.01	%
n	22	19	-

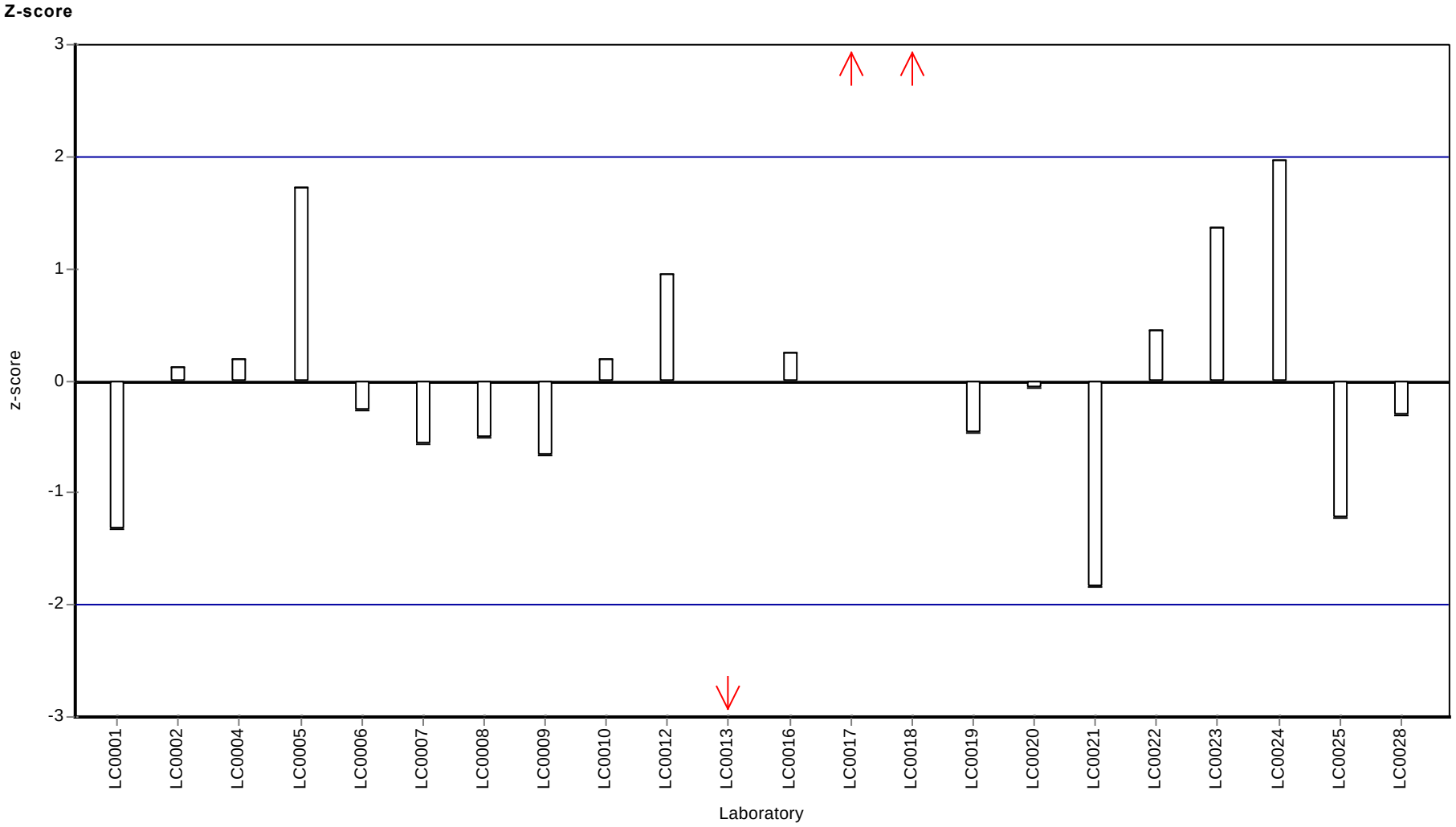
Graphical presentation of results

Results



Recovery rate




Z-score
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2
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0
-1
-2
-3
z-score
LC0001
LC0002
LC0004
LC0005
LC0006
LC0007
LC0008
LC0009
LC0010
LC0012
LC0013
LC0016
LC0017
LC0018
LC0019
LC0020
LC0021
LC0022
LC0023
LC0024
LC0025
LC0028
Laboratory

Parameter oriented report

HB89 B

Isoproturon

Unit	µg/l
Mean ± Cl (99%)	-
Minimum - Maximum	-
Check value ± U	< 0.025 (NG)

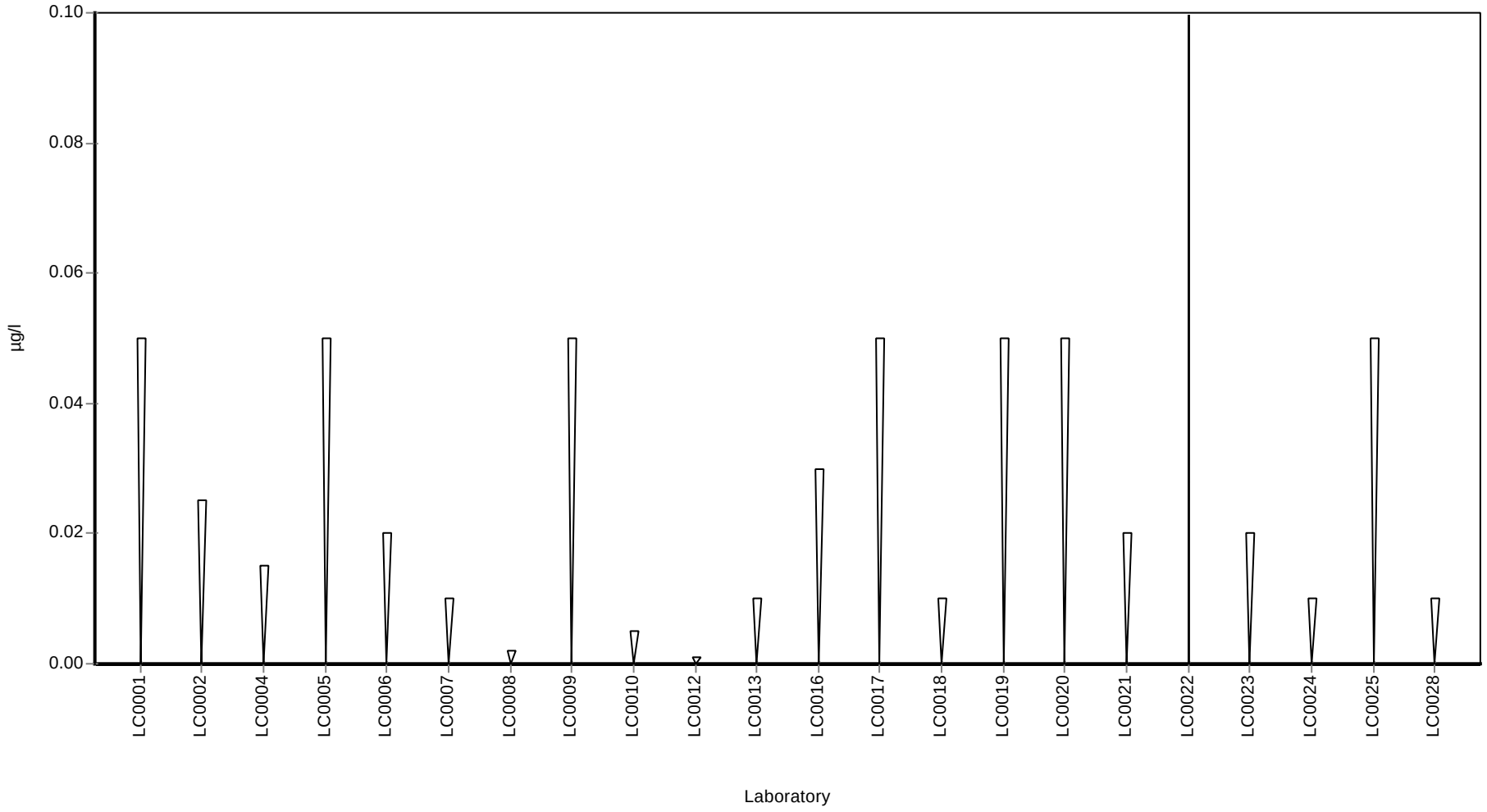
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 0.05 (LOQ)	-	-	-	
LC0002	< 0.025 (LOQ)	-	-	-	
LC0003	-	-	-	-	
LC0004	< 0.015 (LOQ)	-	-	-	
LC0005	< 0.05 (LOQ)	-	-	-	
LC0006	< 0.02 (LOQ)	-	-	-	
LC0007	< 0.01 (LOQ)	-	-	-	
LC0008	< 0.002 (LOQ)	-	-	-	
LC0009	< 0.05 (LOQ)	-	-	-	
LC0010	<0.005 (LOD)	-	-	-	
LC0011	-	-	-	-	
LC0012	< 0.001 (LOQ)	-	-	-	
LC0013	< 0.01 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	< 0.03 (LOQ)	-	-	-	
LC0017	< 0.05 (LOQ)	-	-	-	
LC0018	< 0.01 (LOQ)	-	-	-	
LC0019	< 0.05 (LOQ)	-	-	-	
LC0020	< 0.05 (LOQ)	-	-	-	
LC0021	< 0.02 (LOQ)	-	-	-	
LC0022	< 10 (LOQ)	-	-	-	
LC0023	< 0.02 (LOQ)	-	-	-	
LC0024	< 0.01 (LOQ)	-	-	-	
LC0025	< 0.05 (LOQ)	-	-	-	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	< 0.01 (LOQ)	-	-	-	

Characteristics of parameter

	all results	without outliners	Unit
Mean ± Cl (99%)	-	-	µg/l
Minimum	-	-	µg/l
Maximum	-	-	µg/l
Standard deviation	-	-	µg/l
rel. Standard deviation	-	-	%
n	0	0	-

Graphical presentation of results

Results



Parameter oriented report

HB89 A

Linuron

Unit	µg/l
Mean ± Cl (99%)	-
Minimum - Maximum	-
Check value ± U	< 0.025 (NG)

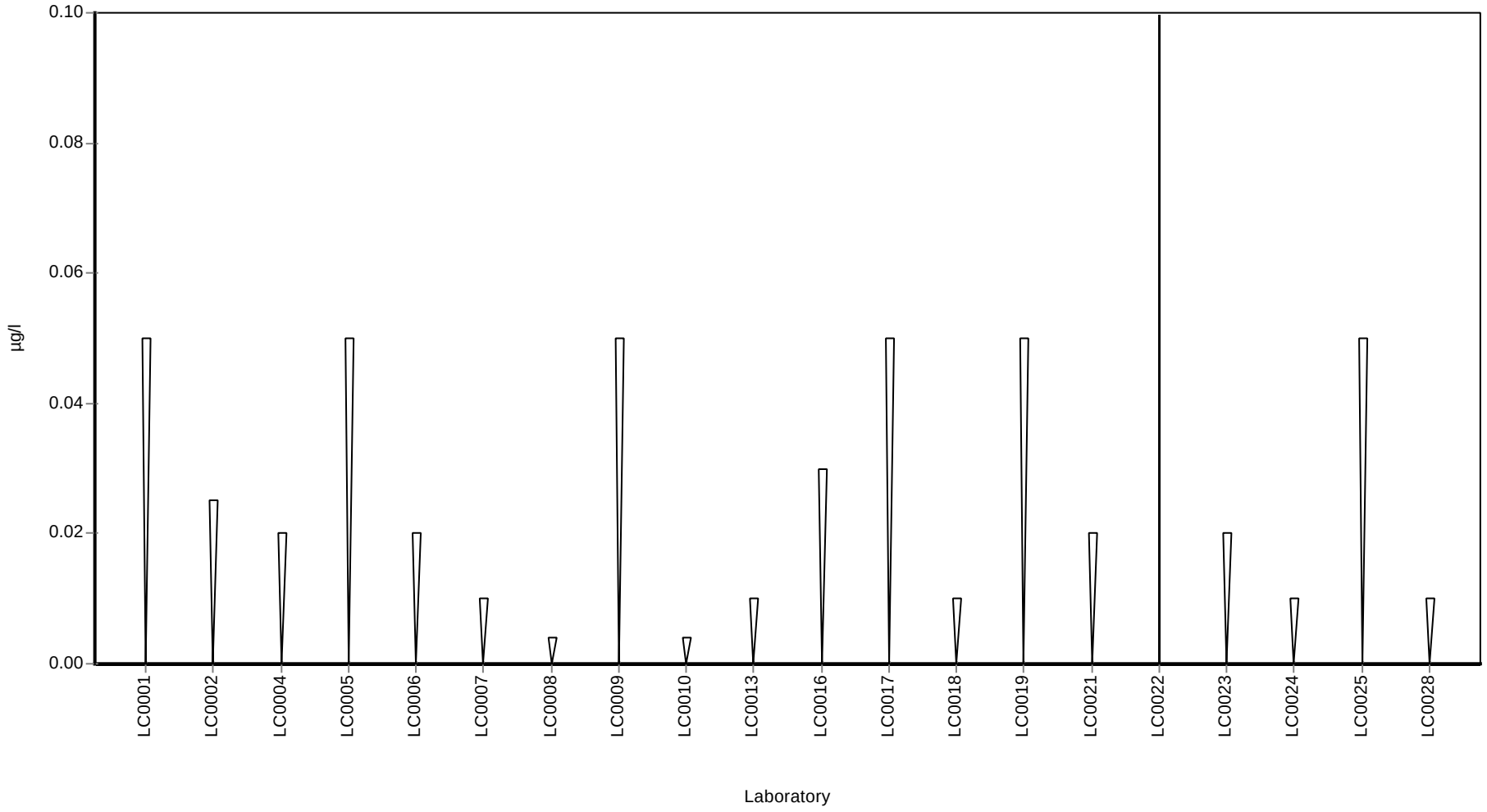
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 0.05 (LOQ)	-	-	-	
LC0002	< 0.025 (LOQ)	-	-	-	
LC0003	-	-	-	-	
LC0004	< 0.02 (LOQ)	-	-	-	
LC0005	< 0.05 (LOQ)	-	-	-	
LC0006	< 0.02 (LOQ)	-	-	-	
LC0007	< 0.01 (LOQ)	-	-	-	
LC0008	< 0.004 (LOQ)	-	-	-	
LC0009	< 0.05 (LOQ)	-	-	-	
LC0010	< 0.004 (LOQ)	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	< 0.01 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	< 0.03 (LOQ)	-	-	-	
LC0017	< 0.05 (LOQ)	-	-	-	
LC0018	< 0.01 (LOQ)	-	-	-	
LC0019	< 0.05 (LOQ)	-	-	-	
LC0020	-	-	-	-	
LC0021	< 0.02 (LOQ)	-	-	-	
LC0022	< 10 (LOQ)	-	-	-	
LC0023	< 0.02 (LOQ)	-	-	-	
LC0024	< 0.01 (LOQ)	-	-	-	
LC0025	< 0.05 (LOQ)	-	-	-	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	< 0.01 (LOQ)	-	-	-	

Characteristics of parameter

	all results	without outliners	Unit
Mean ± Cl (99%)	-	-	µg/l
Minimum	-	-	µg/l
Maximum	-	-	µg/l
Standard deviation	-	-	µg/l
rel. Standard deviation	-	-	%
n	0	0	-

Graphical presentation of results

Results



Parameter oriented report

HB89 B

Linuron

Unit	µg/l
Mean ± Cl (99%)	0.736 ± 0.0886
Minimum - Maximum	0.547 - 0.962
Check value ± U	0.72 ± 0.019

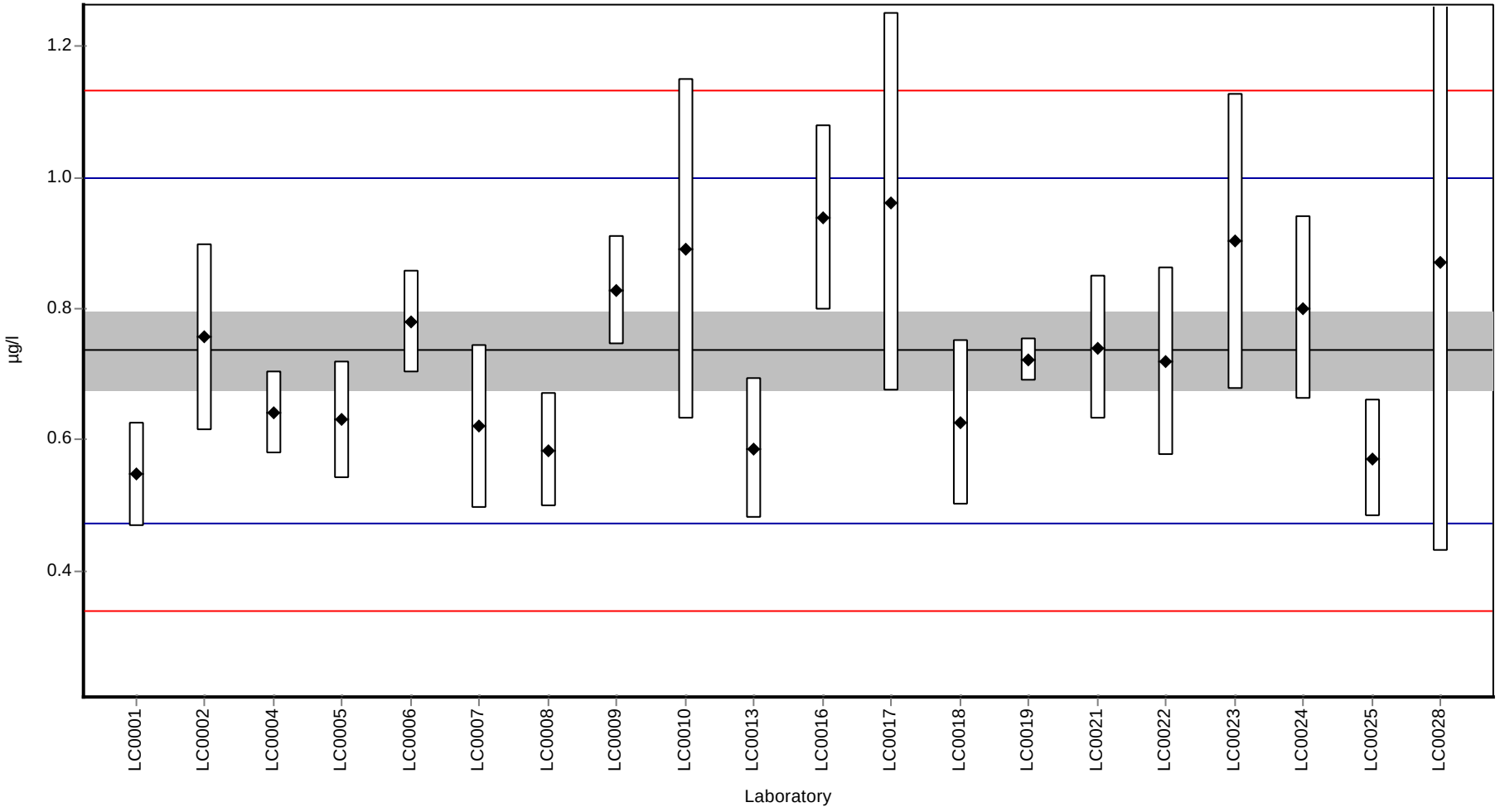
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.547	0.080	74.4	-1.4	
LC0002	0.7559	0.1436	102.8	0.2	
LC0003	-	-	-	-	
LC0004	0.641	0.064	87.1	-0.7	
LC0005	0.630	0.090	85.6	-0.8	
LC0006	0.780	0.078	106.0	0.3	
LC0007	0.620	0.124	84.3	-0.9	
LC0008	0.584	0.0876	79.4	-1.1	
LC0009	0.827	0.083	112.4	0.7	
LC0010	0.890	0.260	121.0	1.2	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.586	0.107	79.7	-1.1	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	0.939	0.141	127.6	1.5	
LC0017	0.962	0.289	130.8	1.7	
LC0018	0.626	0.125	85.1	-0.8	
LC0019	0.722	0.032	98.1	-0.1	
LC0020	-	-	-	-	
LC0021	0.740	0.110	100.6	0.0	
LC0022	0.719	0.144	97.7	-0.1	
LC0023	0.903	0.226	122.7	1.3	
LC0024	0.800	0.140	108.7	0.5	
LC0025	0.571	0.090	77.6	-1.2	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	0.870	0.440	118.3	1.0	

Characteristics of parameter

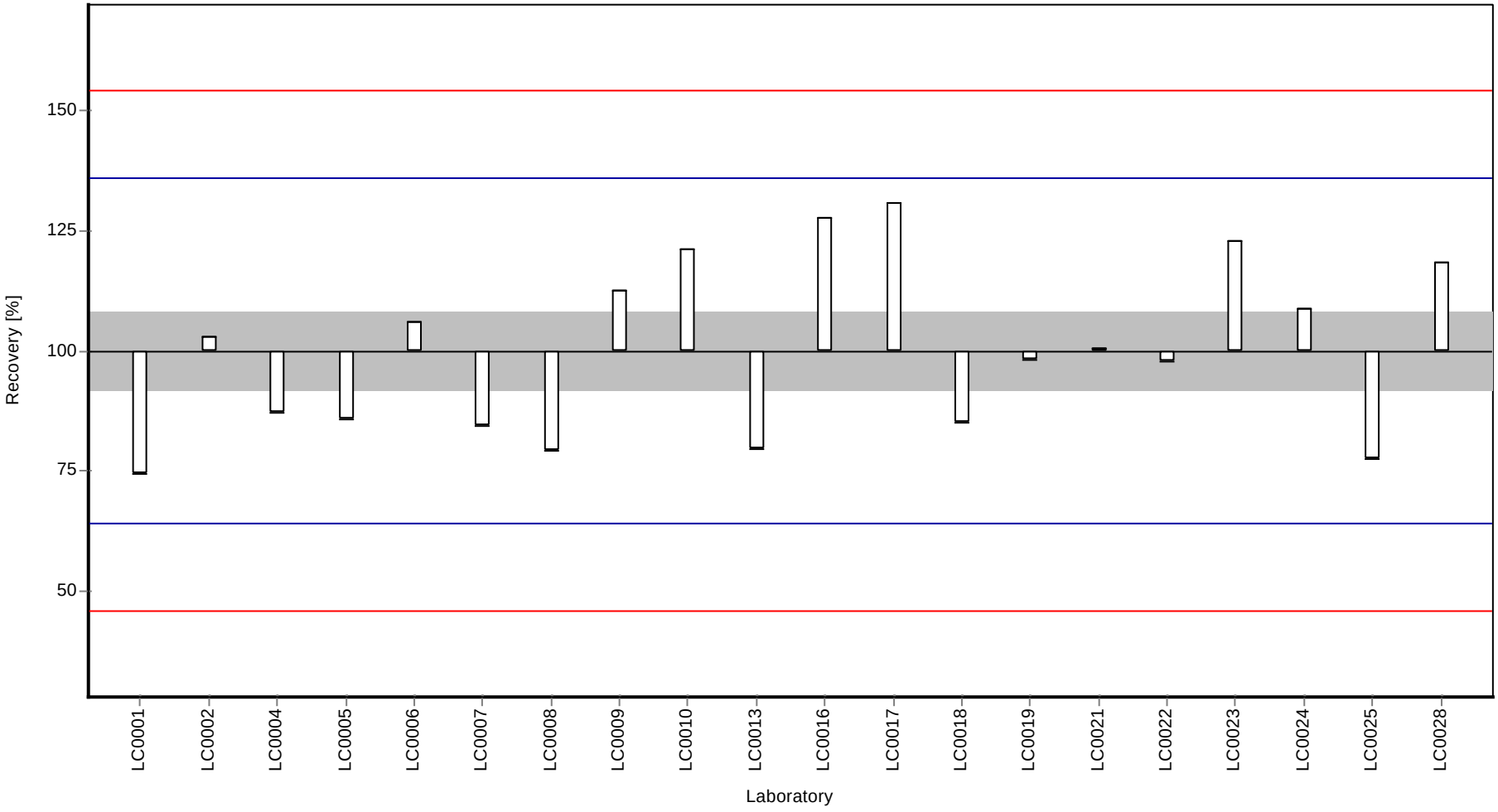
	all results	without outliners	Unit
Mean ± Cl (99%)	0.736 ± 0.0886	0.736 ± 0.0886	µg/l
Minimum	0.547	0.547	µg/l
Maximum	0.962	0.962	µg/l
Standard deviation	0.132	0.132	µg/l
rel. Standard deviation	18	18	%
n	20	20	-

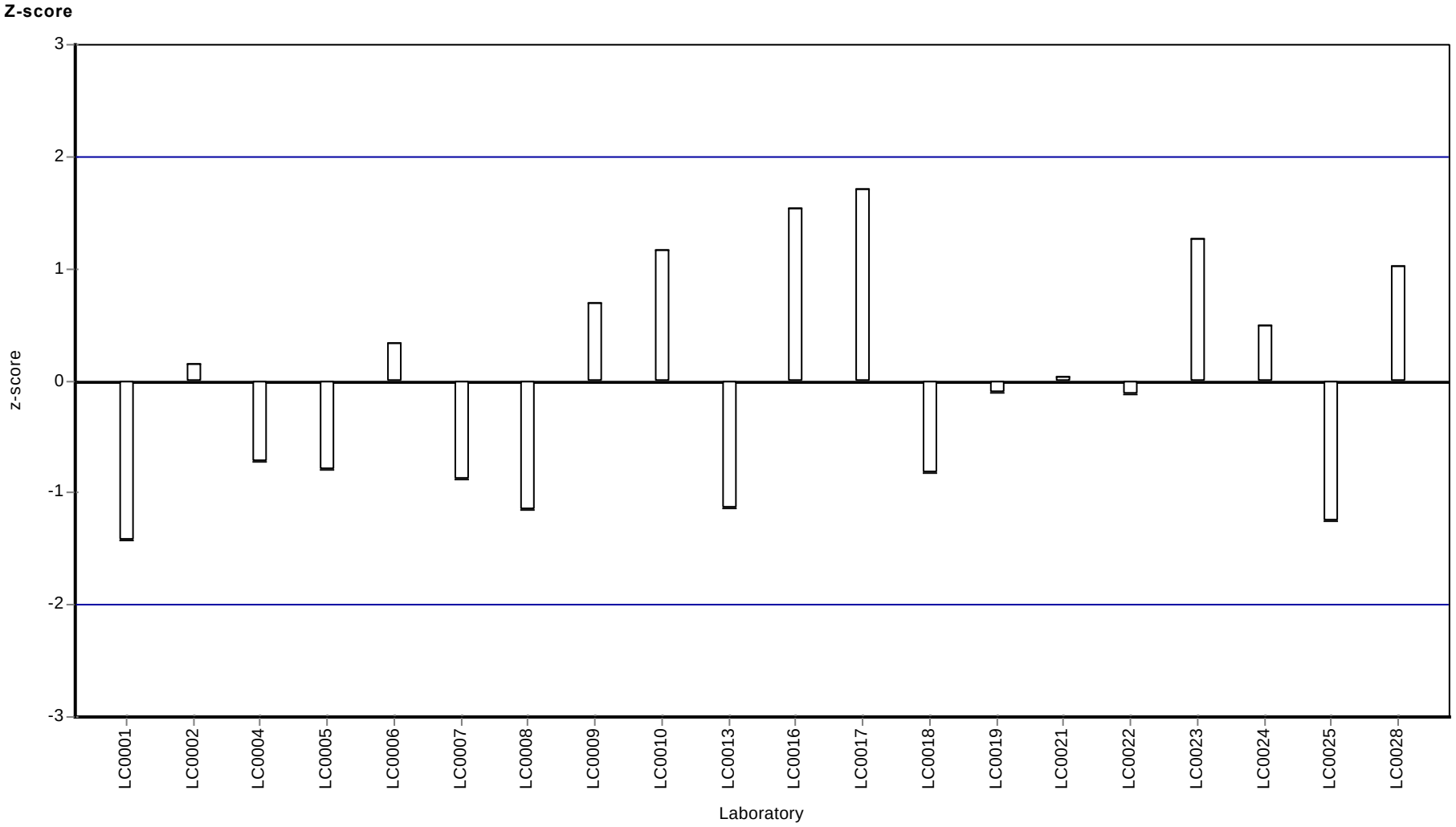
Graphical presentation of results

Results



Recovery rate




Z-score
3
2
1
0
-1
-2
-3
z-score
LC0001
LC0002
LC0004
LC0005
LC0006
LC0007
LC0008
LC0009
LC0010
LC0013
LC0016
LC0017
LC0018
LC0019
LC0021
LC0022
LC0023
LC0024
LC0025
LC0028
Laboratory

Parameter oriented report

HB89 A

Glyphosate

Unit	µg/l
Mean ± Cl (99%)	0.133 ± 0.0147
Minimum - Maximum	0.1015 - 0.165
Check value ± U	0.12 ± 0.023

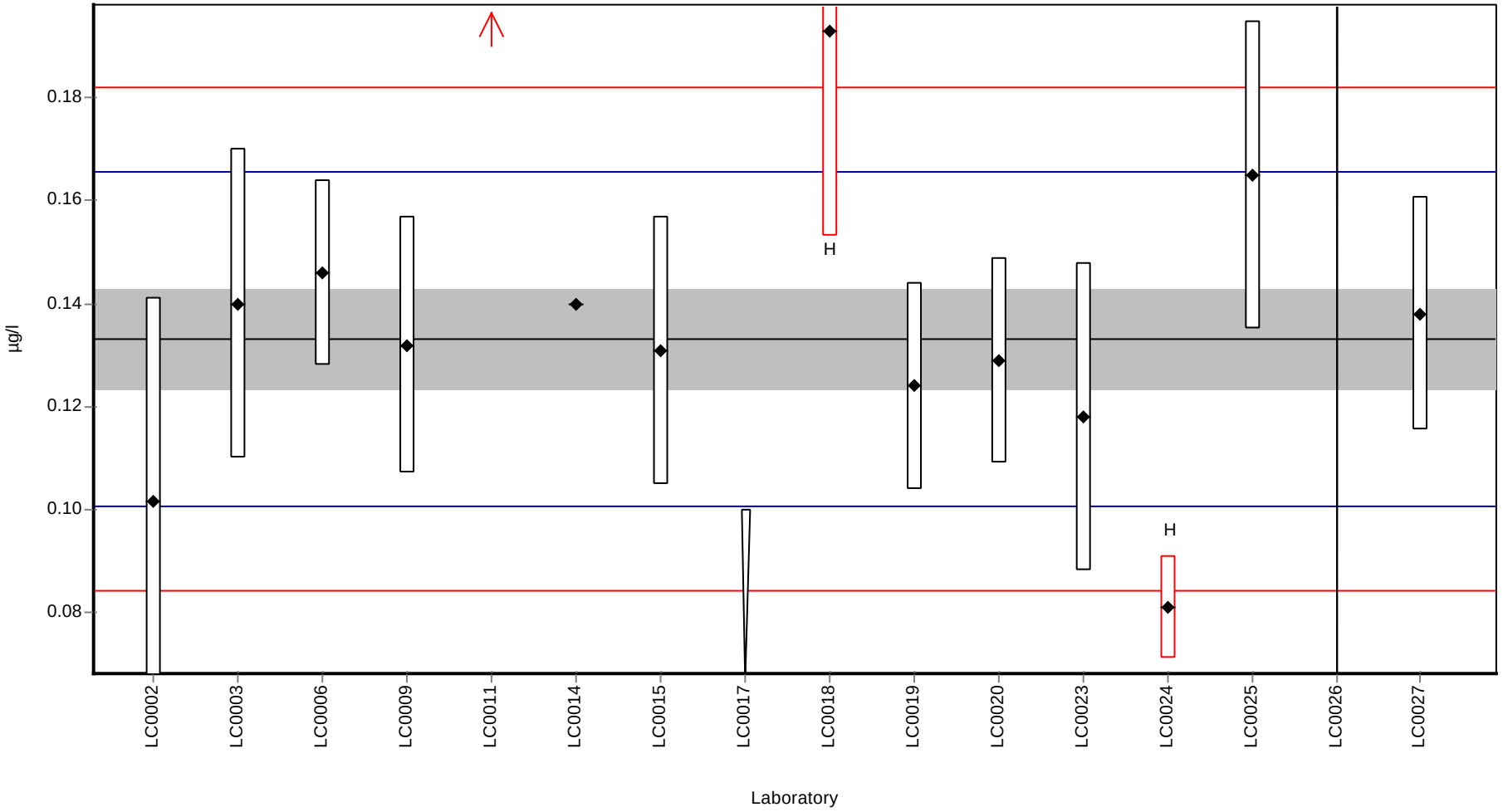
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.1015	0.0396	76.2	-1.9	
LC0003	0.140	0.030	105.2	0.4	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.146	0.018	109.7	0.8	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	0.132	0.025	99.1	-0.1	
LC0010	-	-	-	-	
LC0011	0.326	0.039	244.9	11.9	H
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	0.140	-	105.2	0.4	
LC0015	0.131	0.026	98.4	-0.1	
LC0016	-	-	-	-	
LC0017	< 0.1 (LOQ)	-	-	-	
LC0018	0.193	0.040	145.0	3.7	H
LC0019	0.124	0.020	93.1	-0.6	
LC0020	0.129	0.020	96.9	-0.3	
LC0021	-	-	-	-	
LC0022	-	-	-	-	
LC0023	0.118	0.030	88.6	-0.9	
LC0024	0.081	0.010	60.8	-3.2	H
LC0025	0.165	0.030	123.9	2.0	
LC0026	< 1.8 (LOQ)	-	-	-	
LC0027	0.138	0.0227	103.7	0.3	
LC0028	-	-	-	-	

Characteristics of parameter

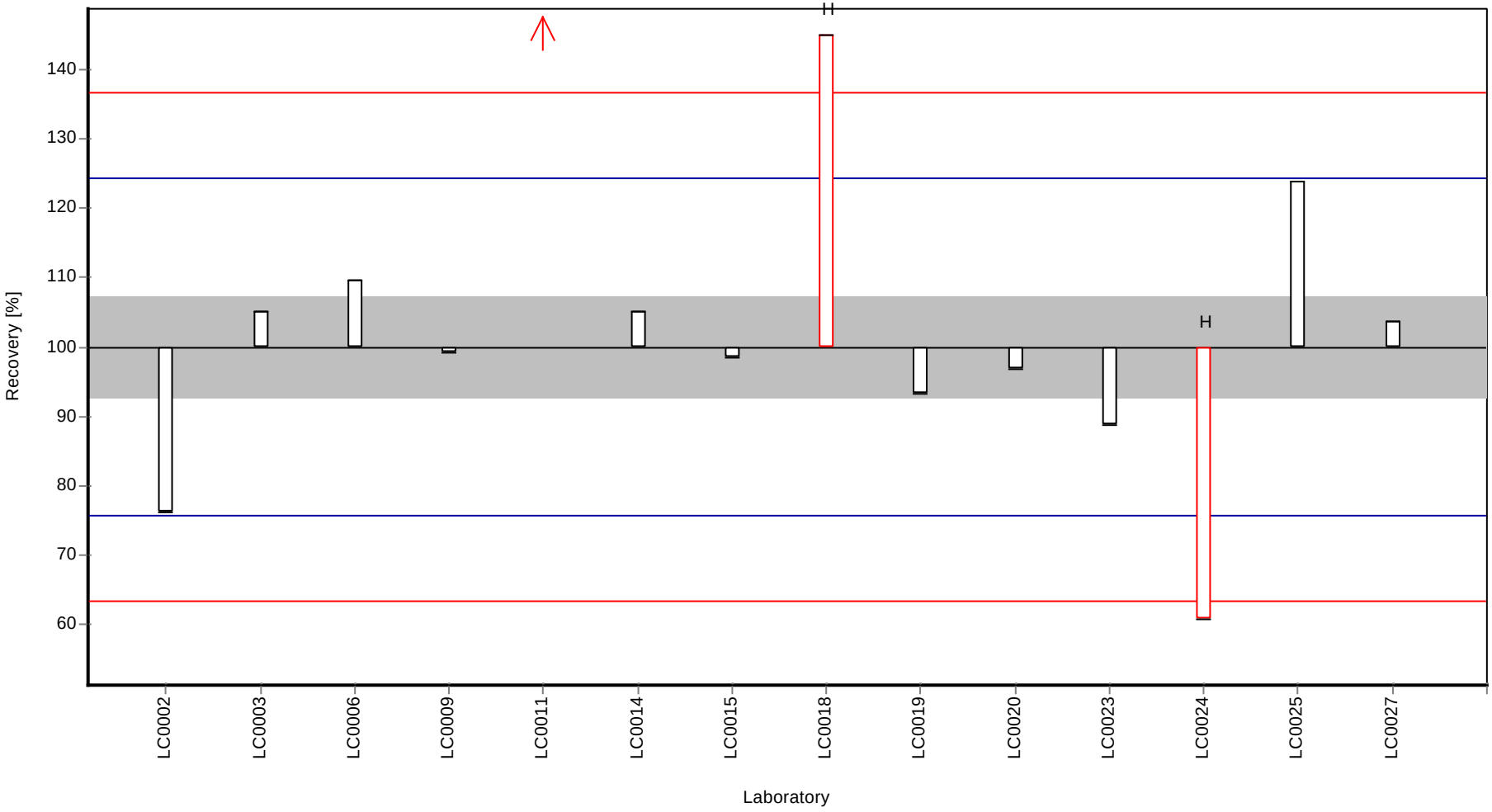
	all results	without outliners	Unit
Mean ± Cl (99%)	0.147 ± 0.0463	0.133 ± 0.0147	µg/l
Minimum	0.081	0.102	µg/l
Maximum	0.326	0.165	µg/l
Standard deviation	0.0577	0.0162	µg/l
rel. Standard deviation	39.1	12.2	%
n	14	11	-

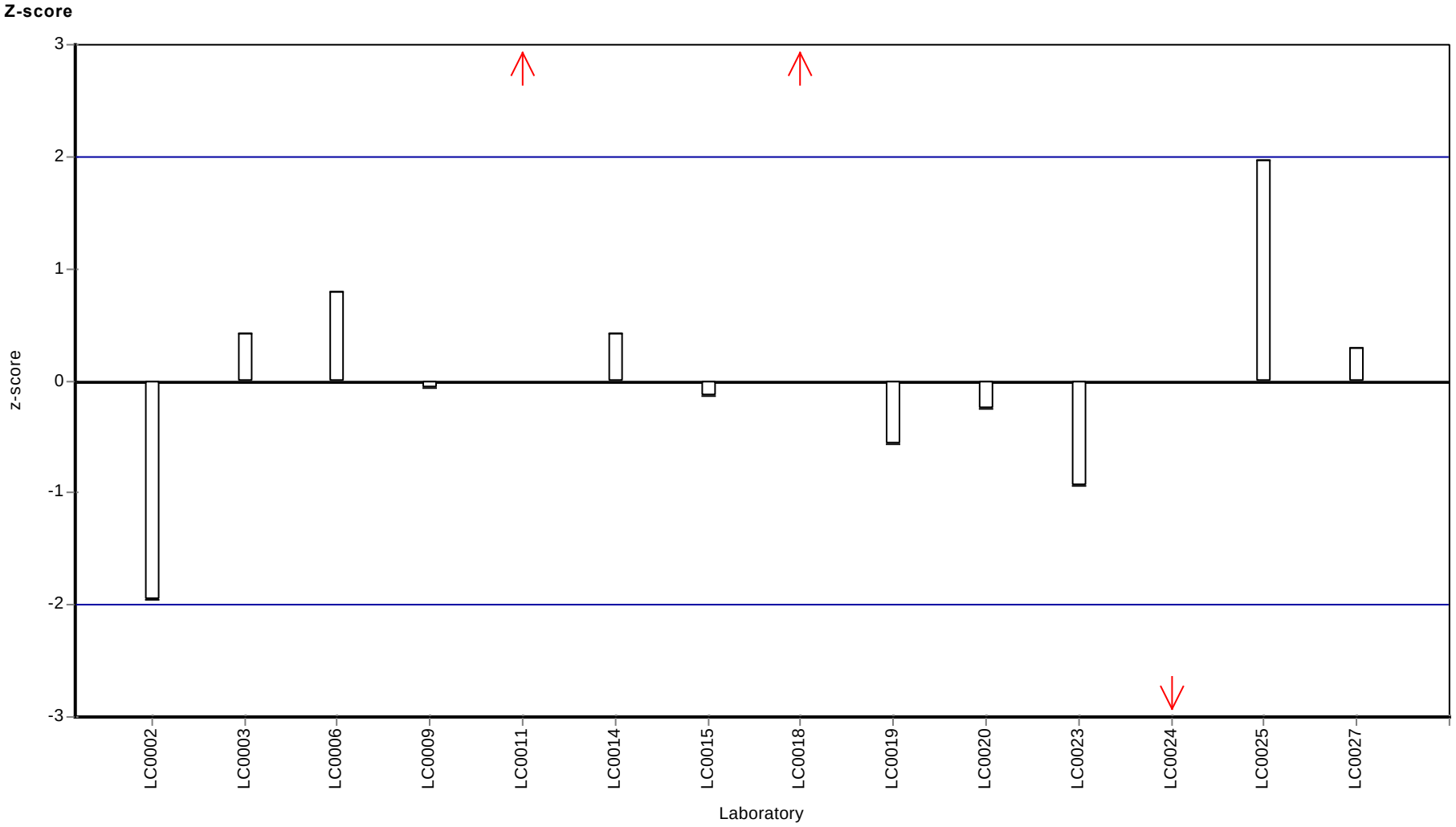
Graphical presentation of results

Results



Recovery rate




Z-score
3
2
1
0
-1
-2
-3
z-score
LC0002
LC0003
LC0006
LC0009
LC0011
LC0014
LC0015
LC0018
LC0019
LC0020
LC0023
LC0024
LC0025
LC0027
Laboratory

Parameter oriented report

HB89 B

Glyphosate

Unit	µg/l
Mean ± Cl (99%)	0.477 ± 0.0838
Minimum - Maximum	0.35 - 0.714
Check value ± U	0.52 ± 0.11

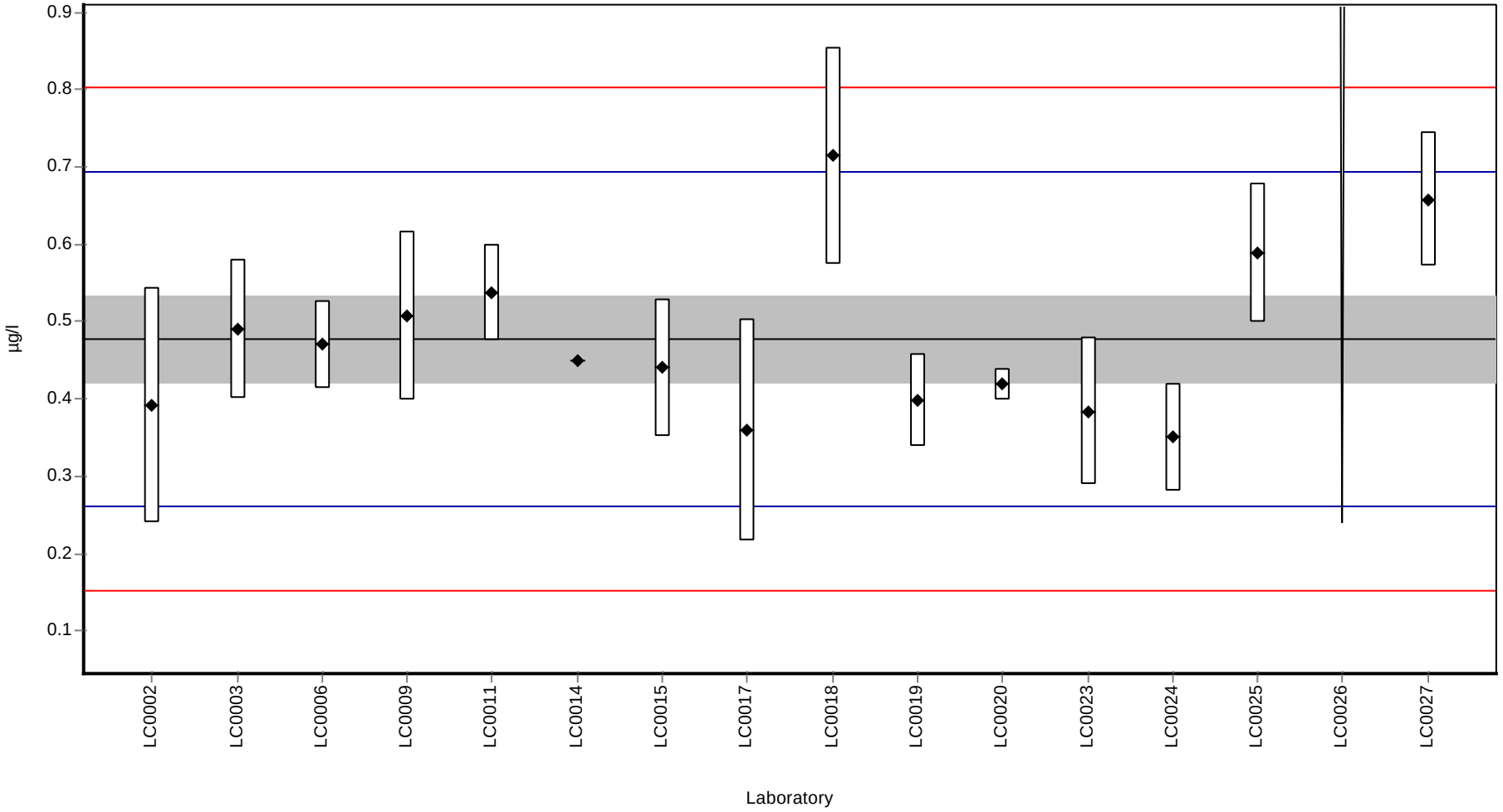
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.3912	0.1526	82.0	-0.8	
LC0003	0.490	0.090	102.7	0.1	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.470	0.056	98.5	-0.1	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	0.508	0.109	106.4	0.3	
LC0010	-	-	-	-	
LC0011	0.538	0.062	112.7	0.6	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	0.450	-	94.3	-0.3	
LC0015	0.440	0.088	92.2	-0.3	
LC0016	-	-	-	-	
LC0017	0.360	0.144	75.4	-1.1	
LC0018	0.714	0.140	149.6	2.2	
LC0019	0.399	0.060	83.6	-0.7	
LC0020	0.419	0.020	87.8	-0.5	
LC0021	-	-	-	-	
LC0022	-	-	-	-	
LC0023	0.384	0.096	80.4	-0.9	
LC0024	0.350	0.070	73.3	-1.2	
LC0025	0.589	0.090	123.4	1.0	
LC0026	< 1.8 (LOQ)	-	-	-	
LC0027	0.658	0.0866	137.8	1.7	
LC0028	-	-	-	-	

Characteristics of parameter

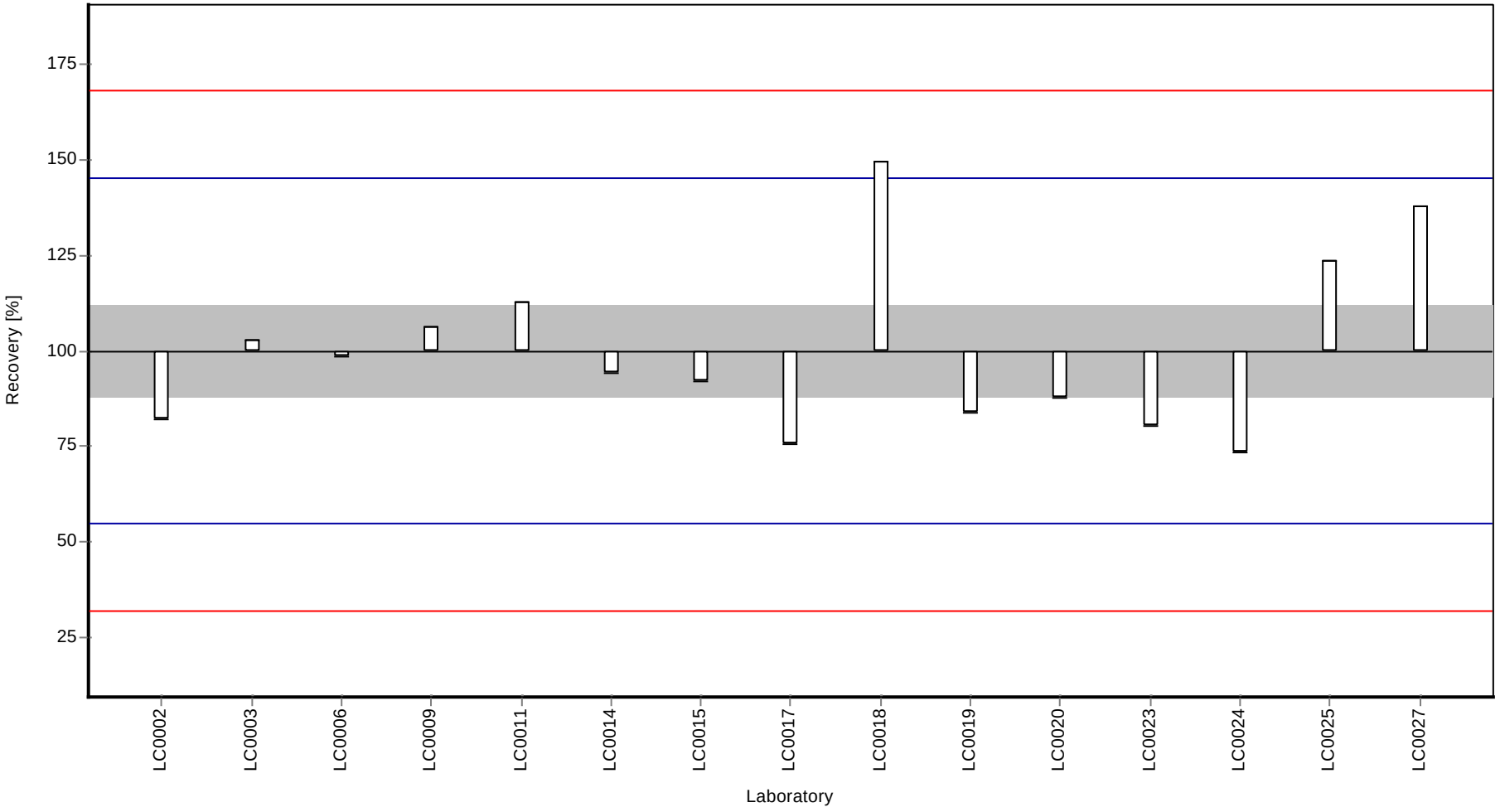
	all results	without outliners	Unit
Mean ± Cl (99%)	0.477 ± 0.0838	0.477 ± 0.0838	µg/l
Minimum	0.35	0.35	µg/l
Maximum	0.714	0.714	µg/l
Standard deviation	0.108	0.108	µg/l
rel. Standard deviation	22.7	22.7	%
n	15	15	-

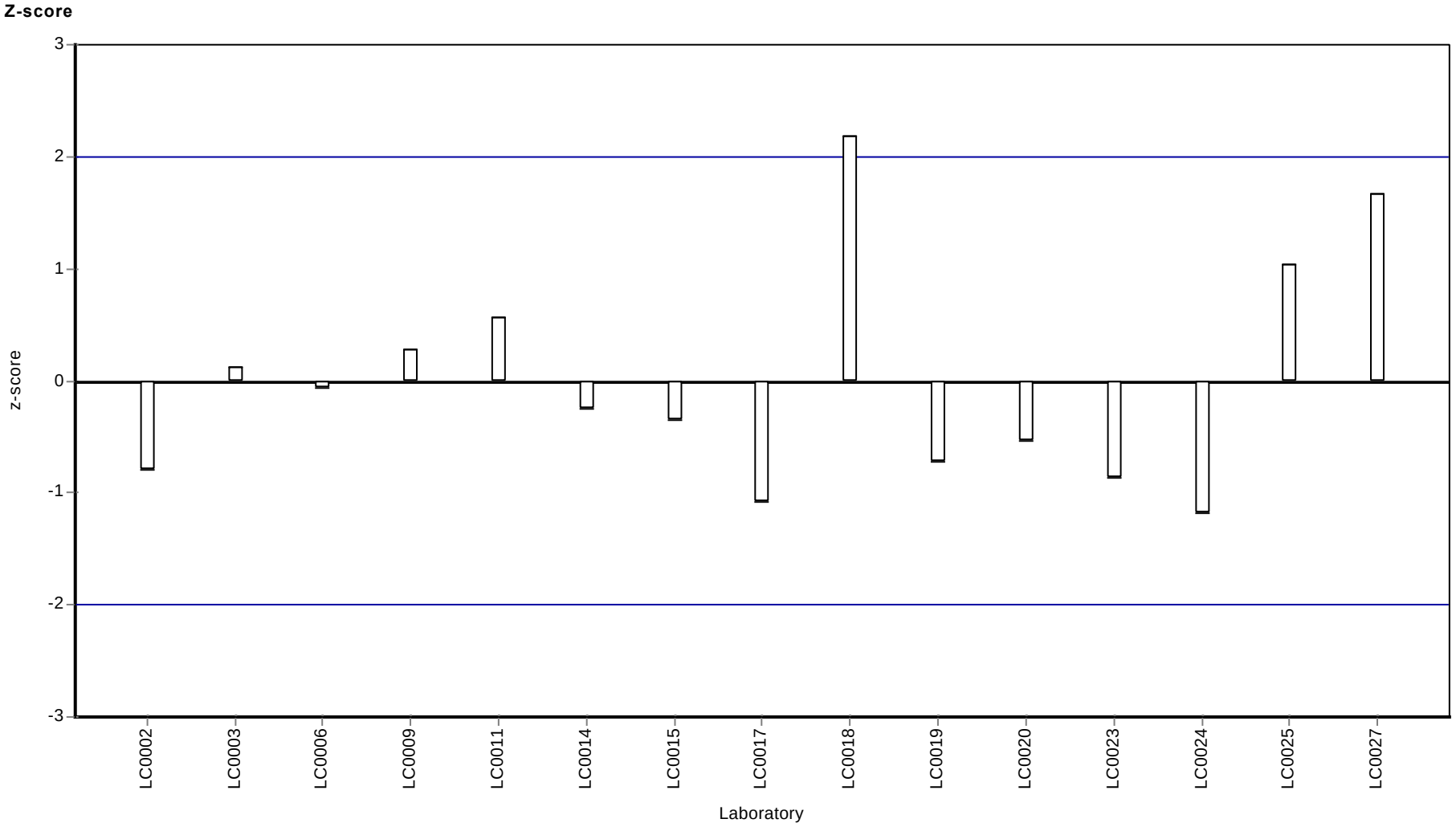
Graphical presentation of results

Results



Recovery rate




Z-score
3
2
1
0
-1
-2
-3
z-score
LC0002
LC0003
LC0006
LC0009
LC0011
LC0014
LC0015
LC0017
LC0018
LC0019
LC0020
LC0023
LC0024
LC0025
LC0027
Laboratory

Parameter oriented report

HB89 A

Glufosinate

Unit	µg/l
Mean ± Cl (99%)	-
Minimum - Maximum	-
Check value ± U	< 0.03 (NG)

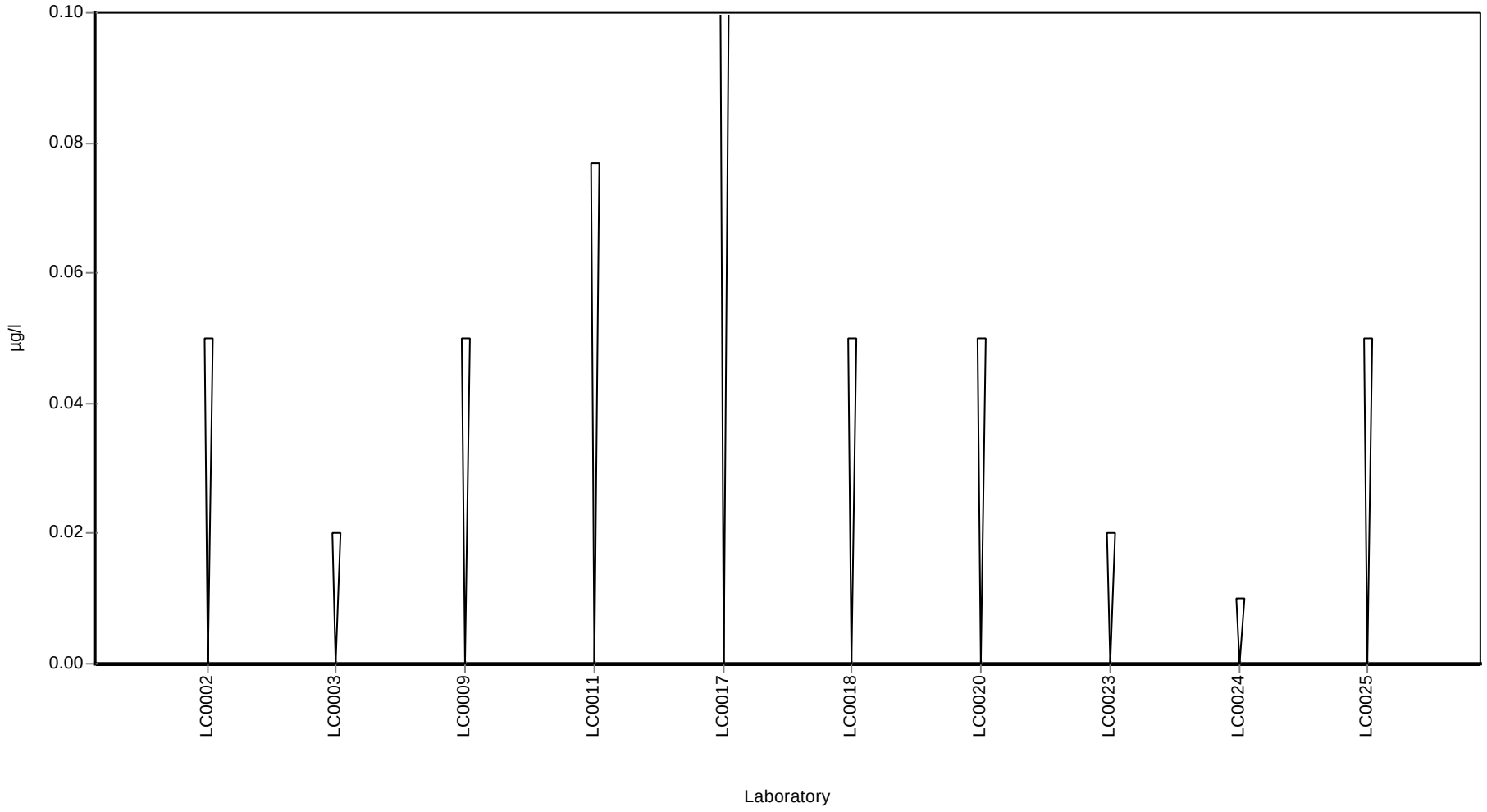
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	< 0.05 (LOQ)	-	-	-	
LC0003	< 0.02 (LOQ)	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	< 0.05 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	< 0.077 (LOQ)	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 0.1 (LOQ)	-	-	-	
LC0018	< 0.05 (LOQ)	-	-	-	
LC0019	-	-	-	-	
LC0020	< 0.05 (LOQ)	-	-	-	
LC0021	-	-	-	-	
LC0022	-	-	-	-	
LC0023	< 0.02 (LOQ)	-	-	-	
LC0024	< 0.01 (LOQ)	-	-	-	
LC0025	< 0.05 (LOQ)	-	-	-	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	

Characteristics of parameter

	all results	without outliners	Unit
Mean ± Cl (99%)	-	-	µg/l
Minimum	-	-	µg/l
Maximum	-	-	µg/l
Standard deviation	-	-	µg/l
rel. Standard deviation	-	-	%
n	0	0	-

Graphical presentation of results

Results



Parameter oriented report

HB89 B

Glufosinate

Unit	µg/l
Mean ± Cl (99%)	0.172 ± 0.0442
Minimum - Maximum	0.1 - 0.23
Check value ± U	0.15 ± 0.032

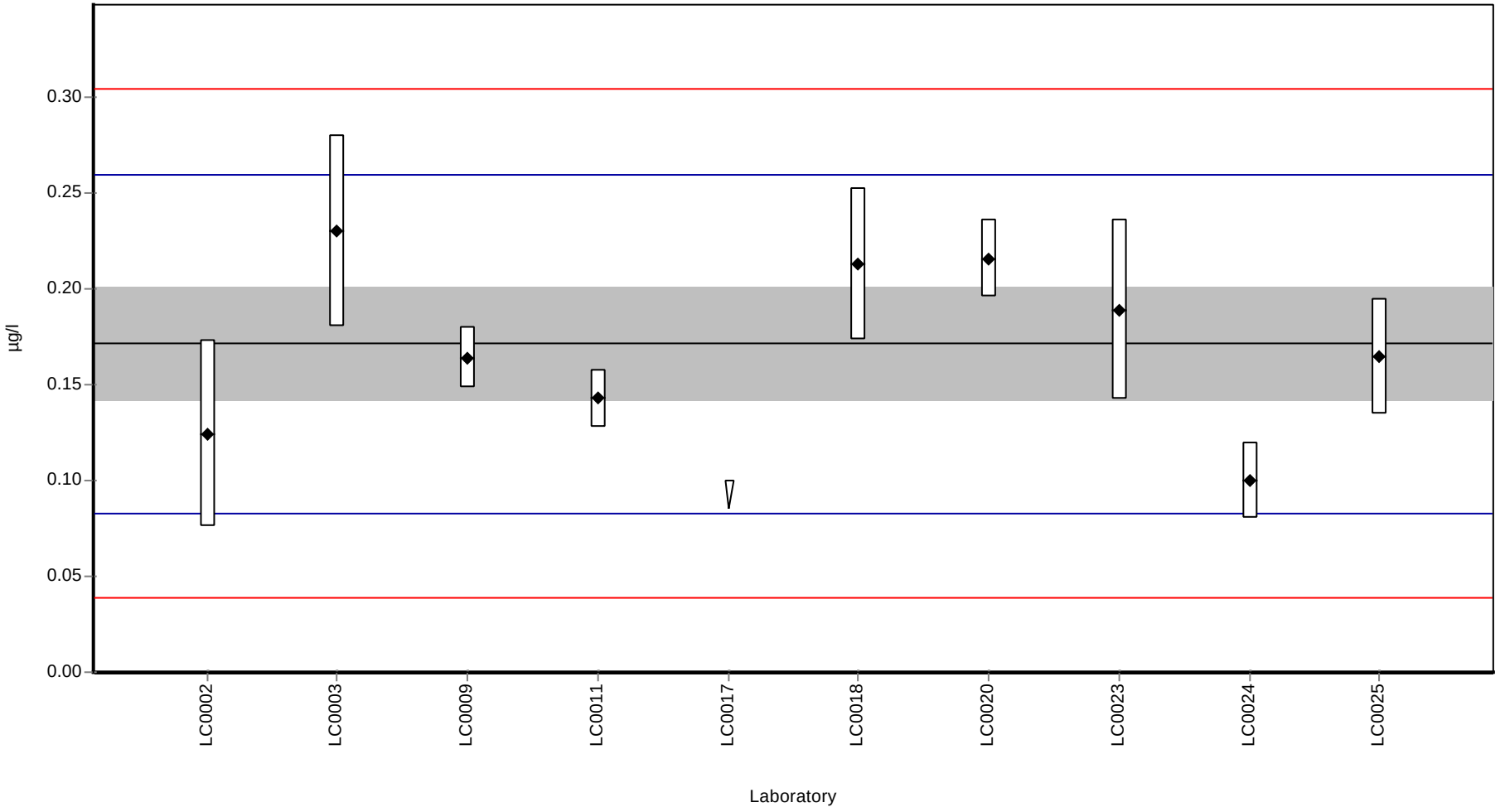
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.1246	0.0485	72.6	-1.1	
LC0003	0.230	0.050	134.0	1.3	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	0.164	0.016	95.6	-0.2	
LC0010	-	-	-	-	
LC0011	0.143	0.015	83.3	-0.6	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 0.1 (LOQ)	-	-	-	
LC0018	0.213	0.040	124.1	0.9	
LC0019	-	-	-	-	
LC0020	0.216	0.020	125.9	1.0	
LC0021	-	-	-	-	
LC0022	-	-	-	-	
LC0023	0.189	0.047	110.1	0.4	
LC0024	0.100	0.020	58.3	-1.6	
LC0025	0.165	0.030	96.1	-0.1	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	

Characteristics of parameter

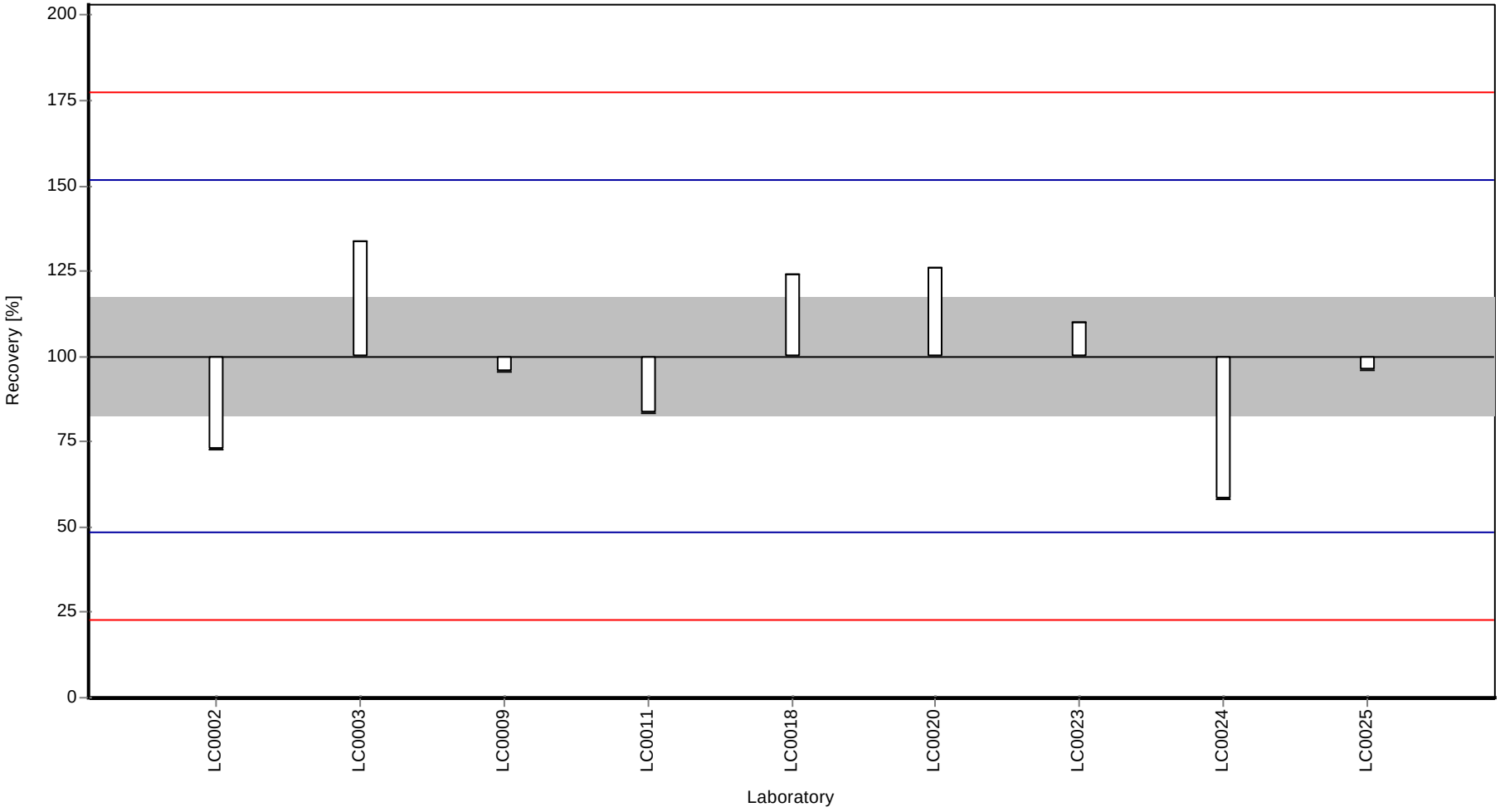
	all results	without outliners	Unit
Mean ± Cl (99%)	0.172 ± 0.0442	0.172 ± 0.0442	µg/l
Minimum	0.1	0.1	µg/l
Maximum	0.23	0.23	µg/l
Standard deviation	0.0442	0.0442	µg/l
rel. Standard deviation	25.8	25.8	%
n	9	9	-

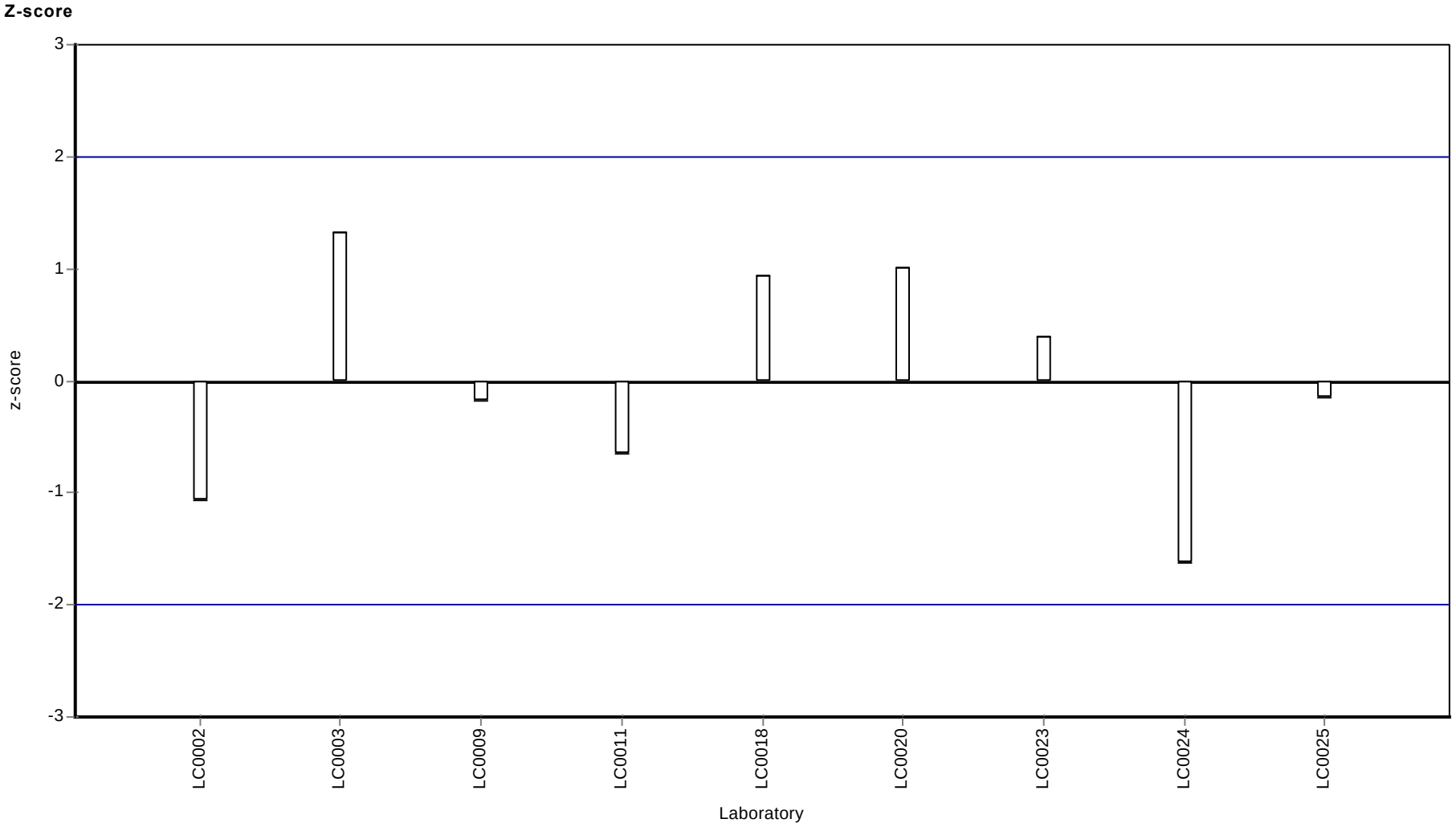
Graphical presentation of results

Results



Recovery rate




Z-score
3
2
1
0
-1
-2
-3
z-score
LC0002
LC0003
LC0009
LC0011
LC0018
LC0020
LC0023
LC0024
LC0025
Laboratory

Parameter oriented report

HB89 A

AMPA

Unit	µg/l
Mean ± Cl (99%)	0.658 ± 0.245
Minimum - Maximum	0.093 - 1.361
Check value ± U	0.63 ± 0.03

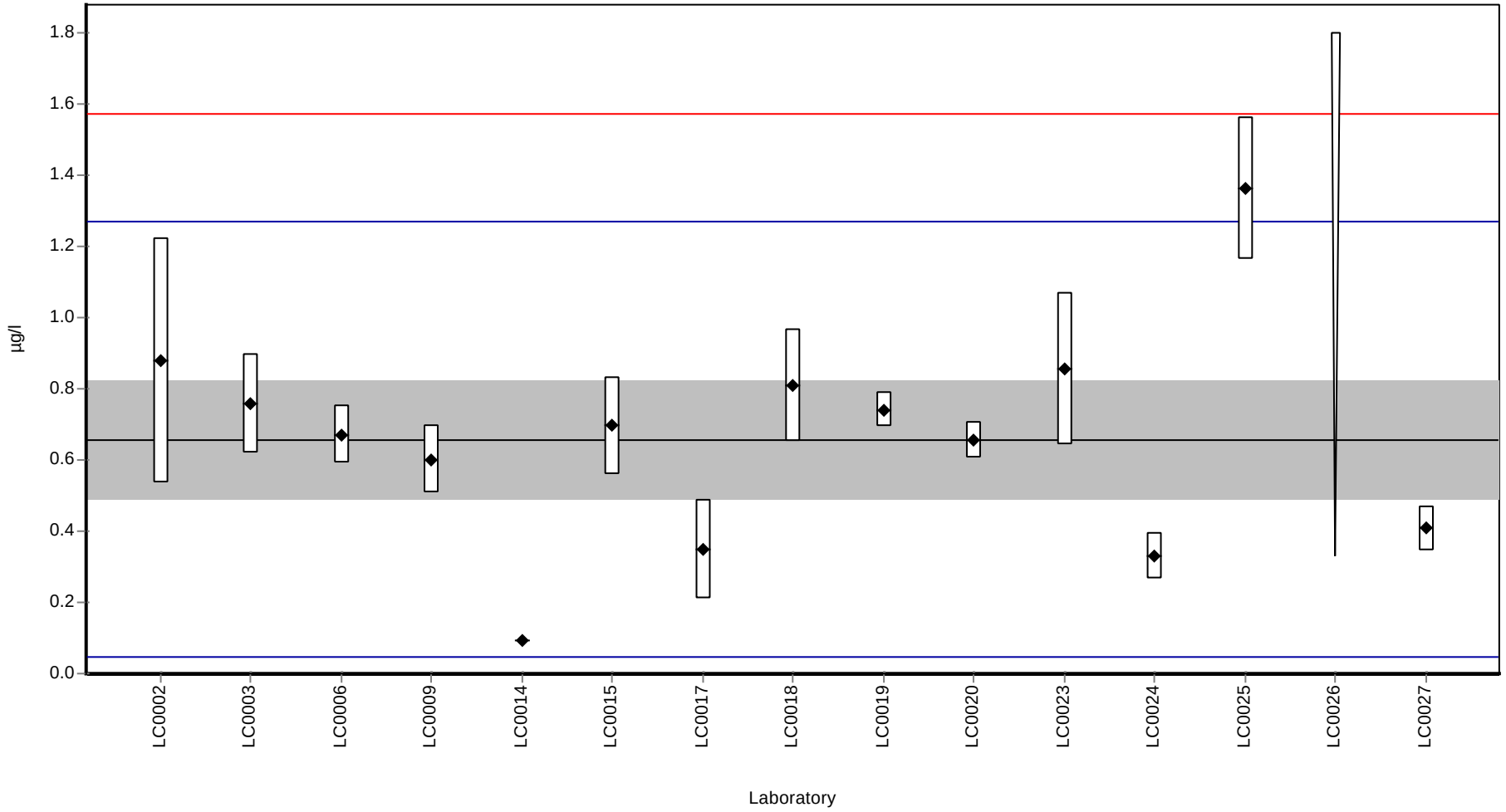
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.8793	0.3429	133.6	0.7	
LC0003	0.760	0.140	115.5	0.3	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.672	0.081	102.1	0.0	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	0.602	0.095	91.5	-0.2	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	0.093	-	14.1	-1.8	
LC0015	0.696	0.139	105.8	0.1	
LC0016	-	-	-	-	
LC0017	0.348	0.140	52.9	-1.0	
LC0018	0.810	0.160	123.1	0.5	
LC0019	0.742	0.047	112.8	0.3	
LC0020	0.655	0.050	99.6	0.0	
LC0021	-	-	-	-	
LC0022	-	-	-	-	
LC0023	0.855	0.214	129.9	0.6	
LC0024	0.330	0.066	50.2	-1.1	
LC0025	1.361	0.200	206.9	2.3	
LC0026	< 1.8 (LOQ)	-	-	-	
LC0027	0.408	0.0618	62.0	-0.8	
LC0028	-	-	-	-	

Characteristics of parameter

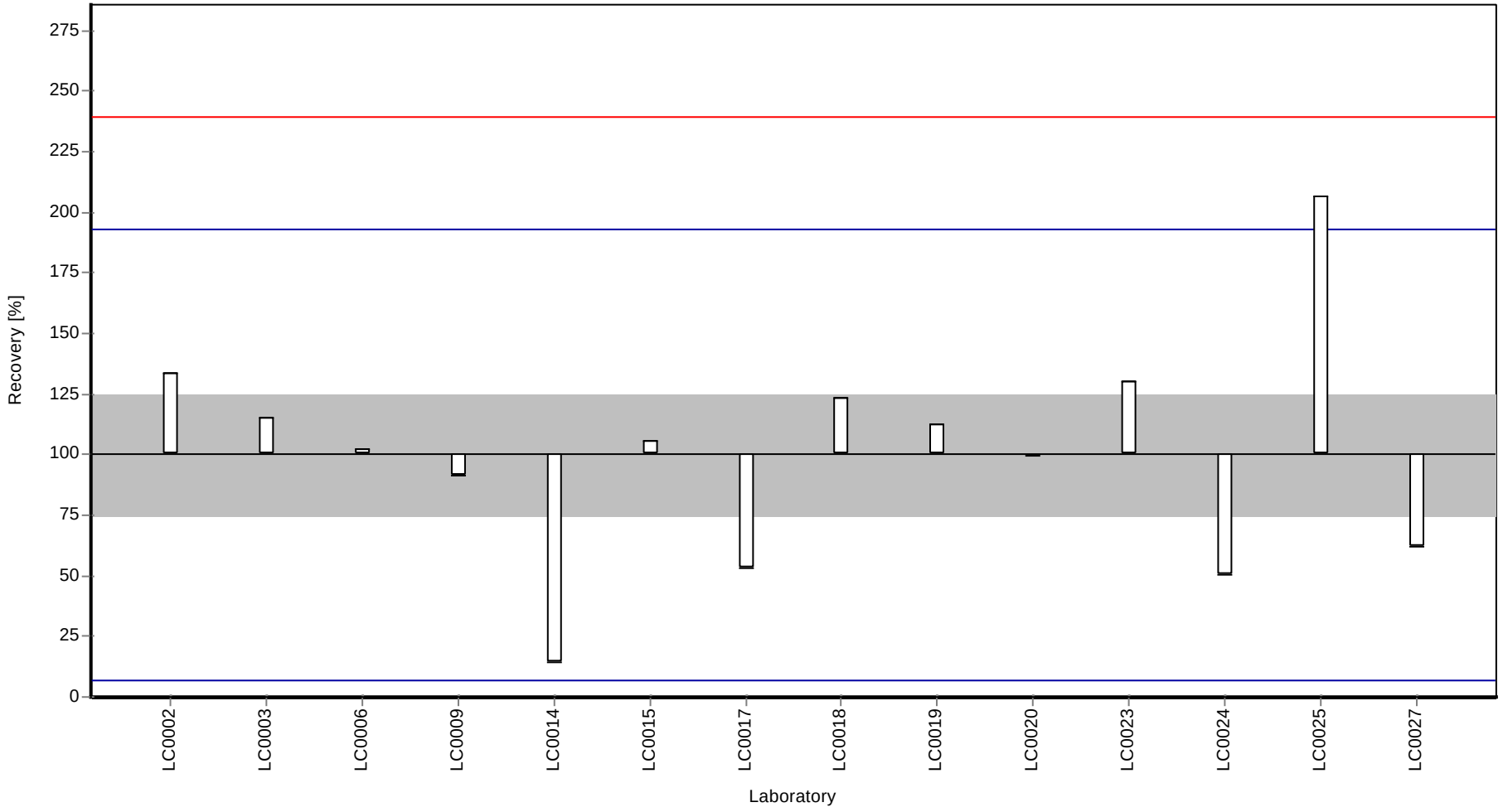
	all results	without outliners	Unit
Mean ± Cl (99%)	0.658 ± 0.245	0.658 ± 0.245	µg/l
Minimum	0.093	0.093	µg/l
Maximum	1.36	1.36	µg/l
Standard deviation	0.305	0.305	µg/l
rel. Standard deviation	46.4	46.4	%
n	14	14	-

Graphical presentation of results

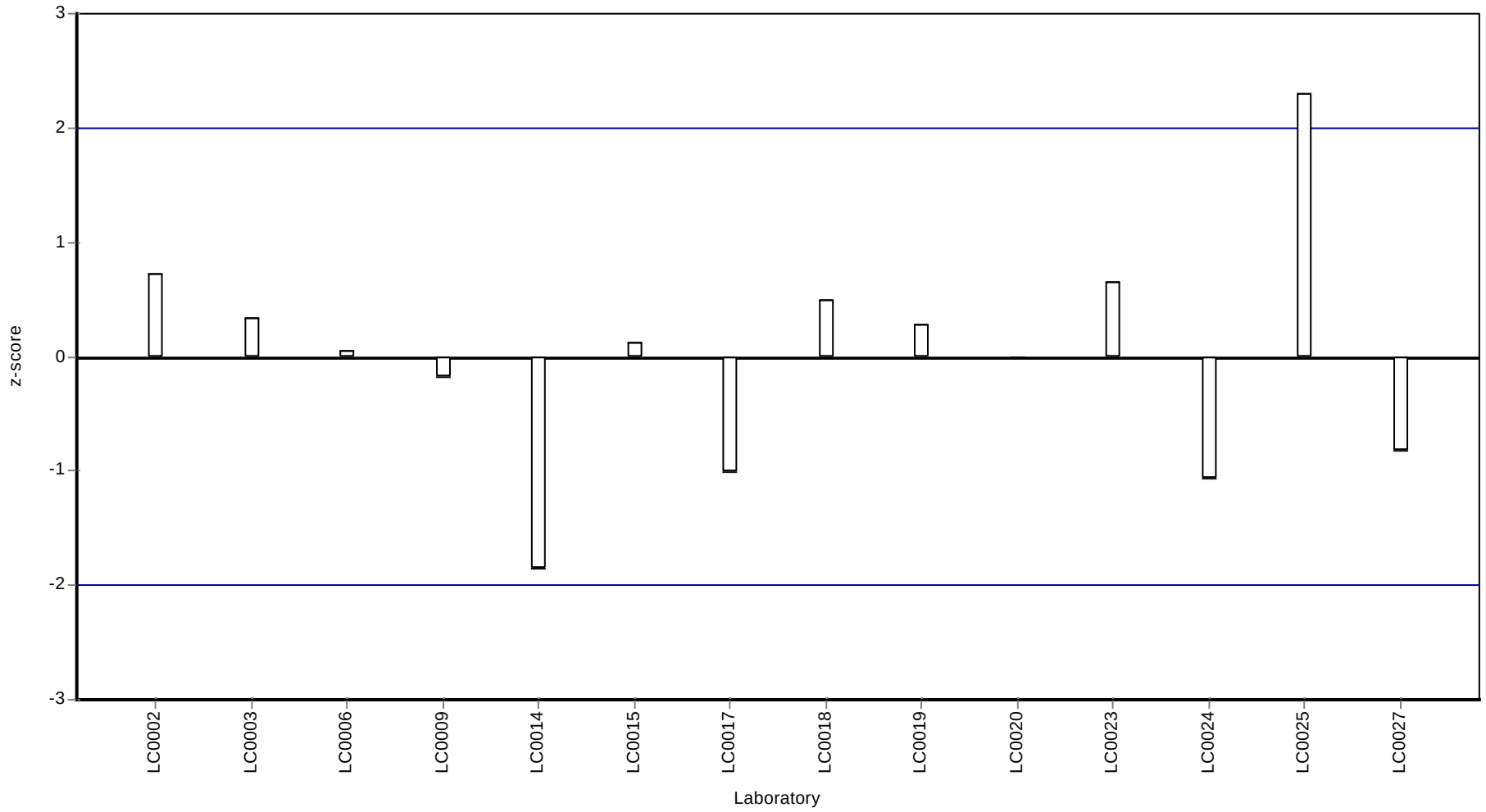
Results



Recovery rate



Z-score


3
2
1
0
-1
-2
-3
z-score
LC0002
LC0003
LC0006
LC0009
LC0014
LC0015
LC0017
LC0018
LC0019
LC0020
LC0023
LC0024
LC0025
LC0027
Laboratory

Parameter oriented report

HB89 B

AMPA

Unit	µg/l
Mean ± Cl (99%)	-
Minimum - Maximum	0.0056 - 0.05
Check value ± U	< 0.03 (NG)

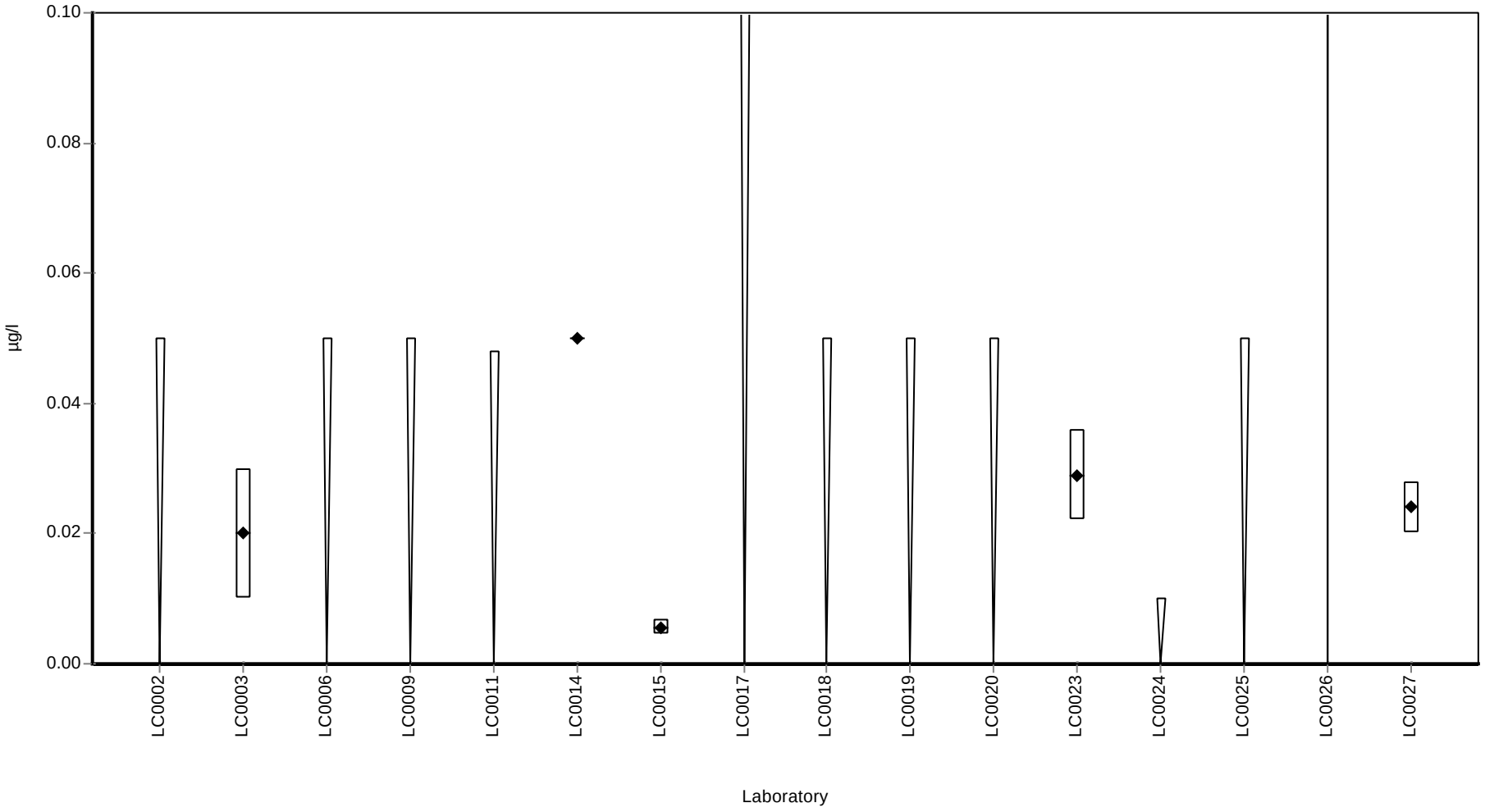
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	< 0.05 (LOQ)	-	-	-	
LC0003	0.020	0.010	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	< 0.05 (LOQ)	-	-	-	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	< 0.05 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	< 0.048 (LOQ)	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	0.050	-	-	-	
LC0015	0.0056	0.0011	-	-	
LC0016	-	-	-	-	
LC0017	< 0.1 (LOQ)	-	-	-	
LC0018	< 0.05 (LOQ)	-	-	-	
LC0019	< 0.05 (LOQ)	-	-	-	
LC0020	< 0.05 (LOQ)	-	-	-	
LC0021	-	-	-	-	
LC0022	-	-	-	-	
LC0023	0.029	0.007	-	-	
LC0024	< 0.01 (LOQ)	-	-	-	
LC0025	< 0.05 (LOQ)	-	-	-	
LC0026	< 1.8 (LOQ)	-	-	-	
LC0027	0.024	0.004	-	-	
LC0028	-	-	-	-	

Characteristics of parameter

	all results	without outliners	Unit
Mean ± Cl (99%)	0.0257 ± 0.0216	-	µg/l
Minimum	0.0056	0.0056	µg/l
Maximum	0.05	0.05	µg/l
Standard deviation	0.0161	-	µg/l
rel. Standard deviation	62.7	-	%
n	5	5	-

Graphical presentation of results

Results



Parameter oriented report

HB89 A

Dimethylsulfamide

Unit	µg/l
Mean ± Cl (99%)	0.415 ± 0.0568
Minimum - Maximum	0.313 - 0.524
Check value ± U	0.42 ± 0.026

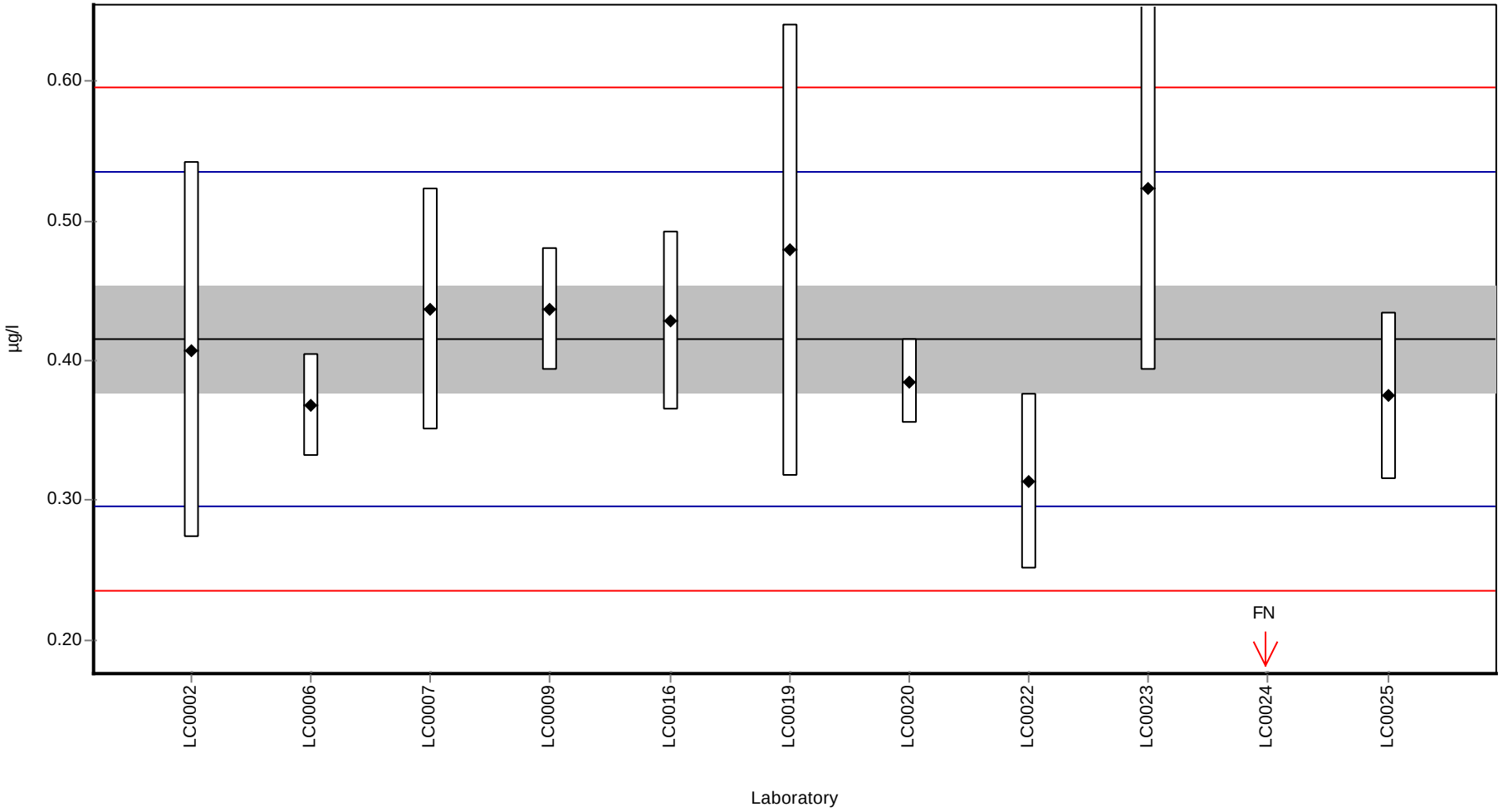
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.4075	0.1345	98.1	-0.1	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.368	0.037	88.6	-0.8	
LC0007	0.437	0.087	105.2	0.4	
LC0008	-	-	-	-	
LC0009	0.437	0.044	105.2	0.4	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	0.429	0.064	103.3	0.2	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0.479	0.162	115.3	1.1	
LC0020	0.385	0.030	92.7	-0.5	
LC0021	-	-	-	-	
LC0022	0.313	0.063	75.3	-1.7	
LC0023	0.524	0.131	126.1	1.8	
LC0024	< 0.01 (LOQ)	-	-	-	FN
LC0025	0.375	0.060	90.3	-0.7	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	

Characteristics of parameter

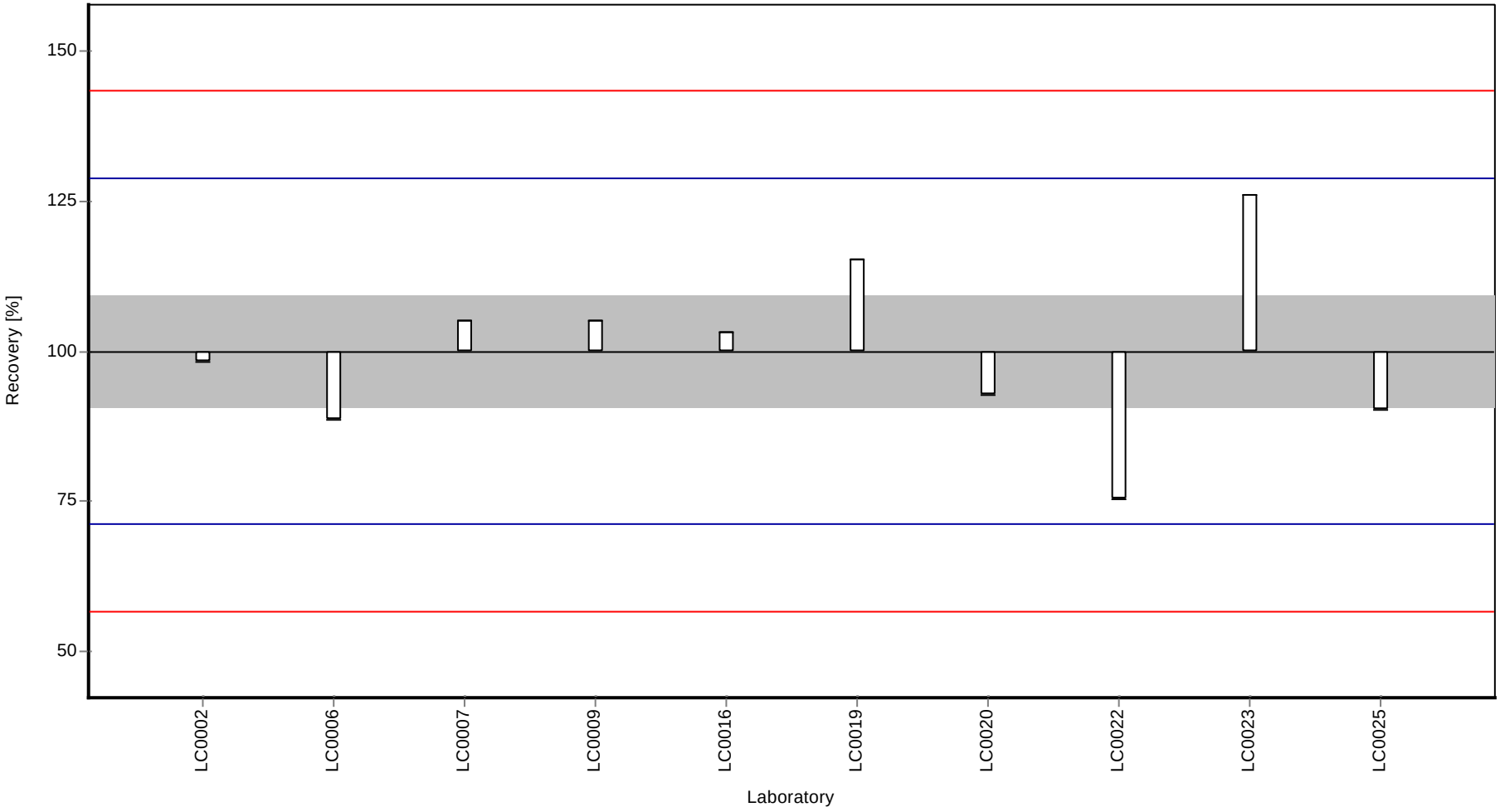
	all results	without outliners	Unit
Mean ± Cl (99%)	0.415 ± 0.0568	0.415 ± 0.0568	µg/l
Minimum	0.313	0.313	µg/l
Maximum	0.524	0.524	µg/l
Standard deviation	0.0599	0.0599	µg/l
rel. Standard deviation	14.4	14.4	%
n	10	10	-

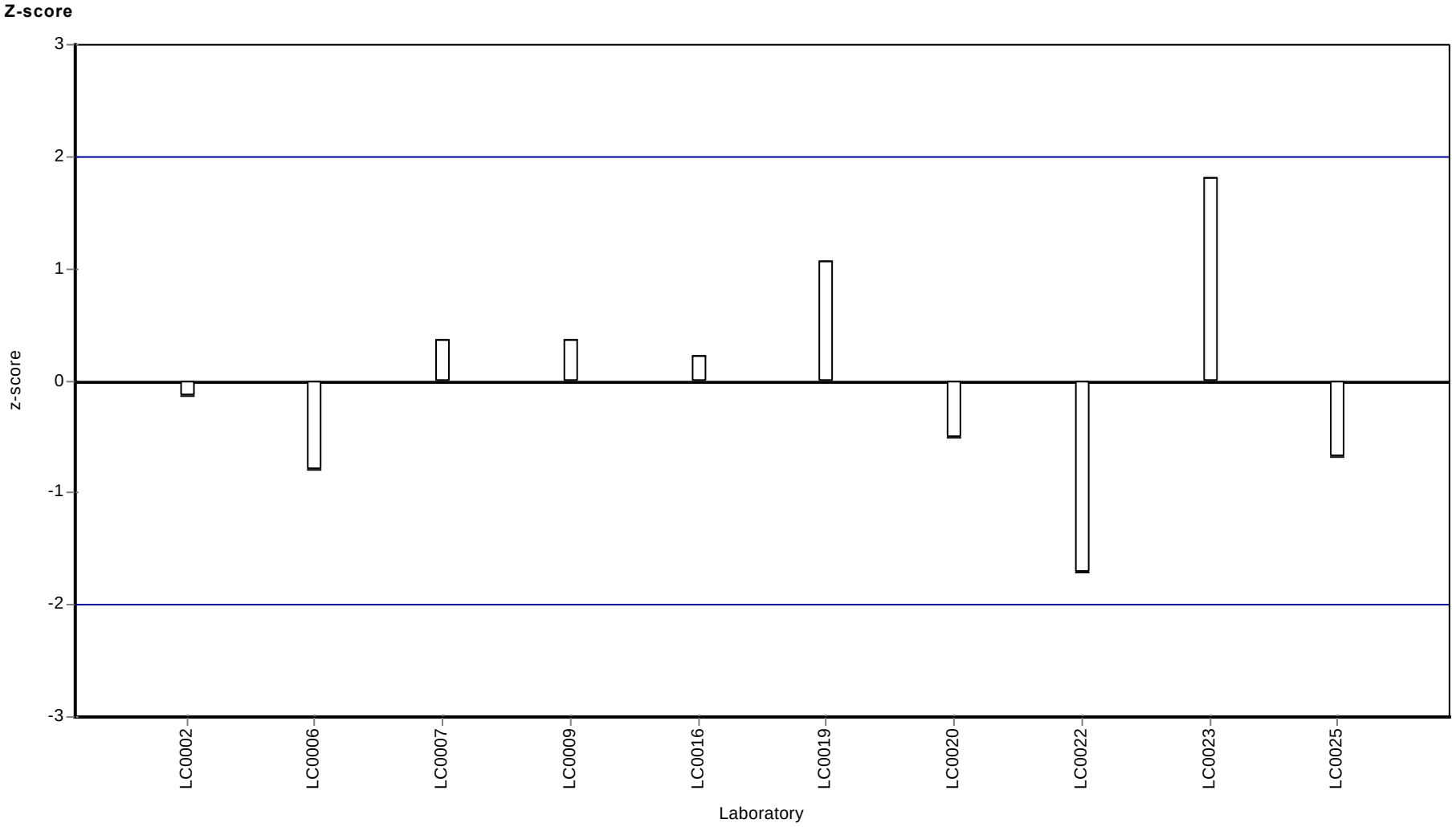
Graphical presentation of results

Results



Recovery rate




Z-score
3
2
1
0
-1
-2
-3
z-score
LC0002
LC0006
LC0007
LC0009
LC0016
LC0019
LC0020
LC0022
LC0023
LC0025
Laboratory

Parameter oriented report

HB89 B

Dimethylsulfamide

Unit	µg/l
Mean ± CI (99%)	0.344 ± 0.0504
Minimum - Maximum	0.26 - 0.428
Check value ± U	0.30 ± 0.0089

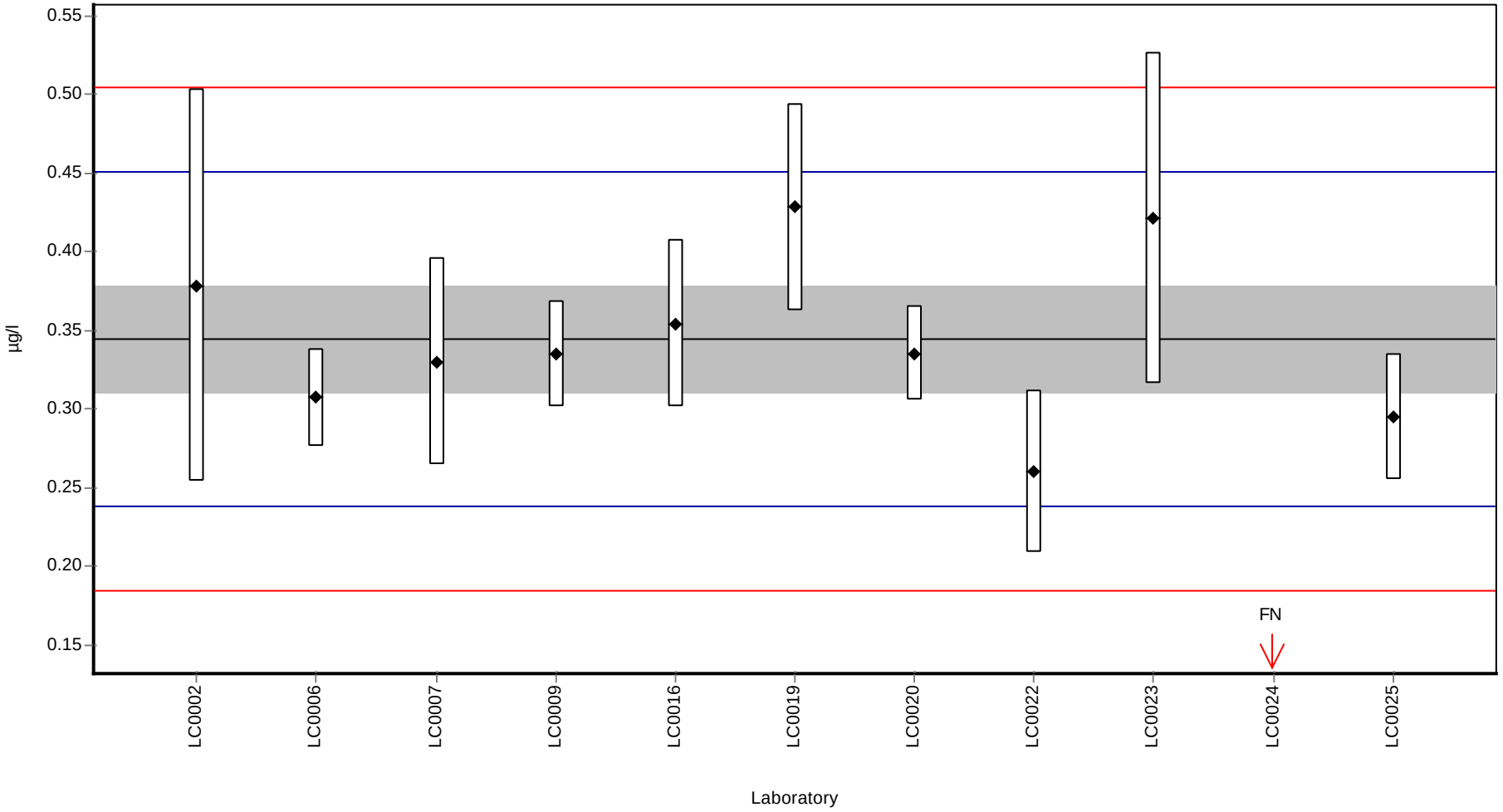
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.3781	0.1248	109.8	0.6	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.307	0.031	89.2	-0.7	
LC0007	0.330	0.066	95.8	-0.3	
LC0008	-	-	-	-	
LC0009	0.335	0.034	97.3	-0.2	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	0.354	0.053	102.8	0.2	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0.428	0.066	124.3	1.6	
LC0020	0.335	0.030	97.3	-0.2	
LC0021	-	-	-	-	
LC0022	0.260	0.052	75.5	-1.6	
LC0023	0.421	0.105	122.3	1.4	
LC0024	< 0.01 (LOQ)	-	-	-	FN
LC0025	0.295	0.040	85.7	-0.9	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	

Characteristics of parameter

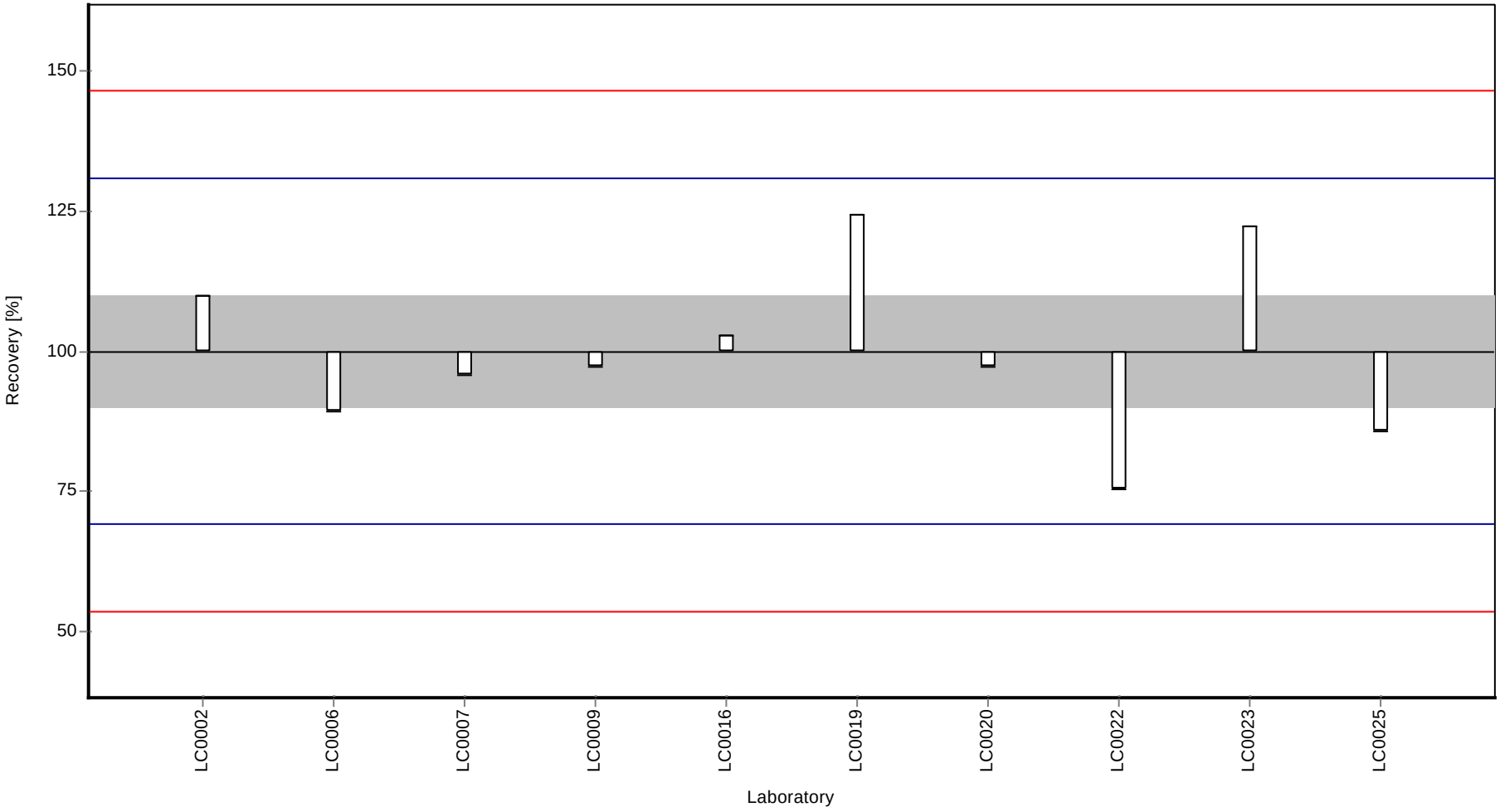
	all results	without outliners	Unit
Mean ± CI (99%)	0.344 ± 0.0504	0.344 ± 0.0504	µg/l
Minimum	0.26	0.26	µg/l
Maximum	0.428	0.428	µg/l
Standard deviation	0.0532	0.0532	µg/l
rel. Standard deviation	15.4	15.4	%
n	10	10	-

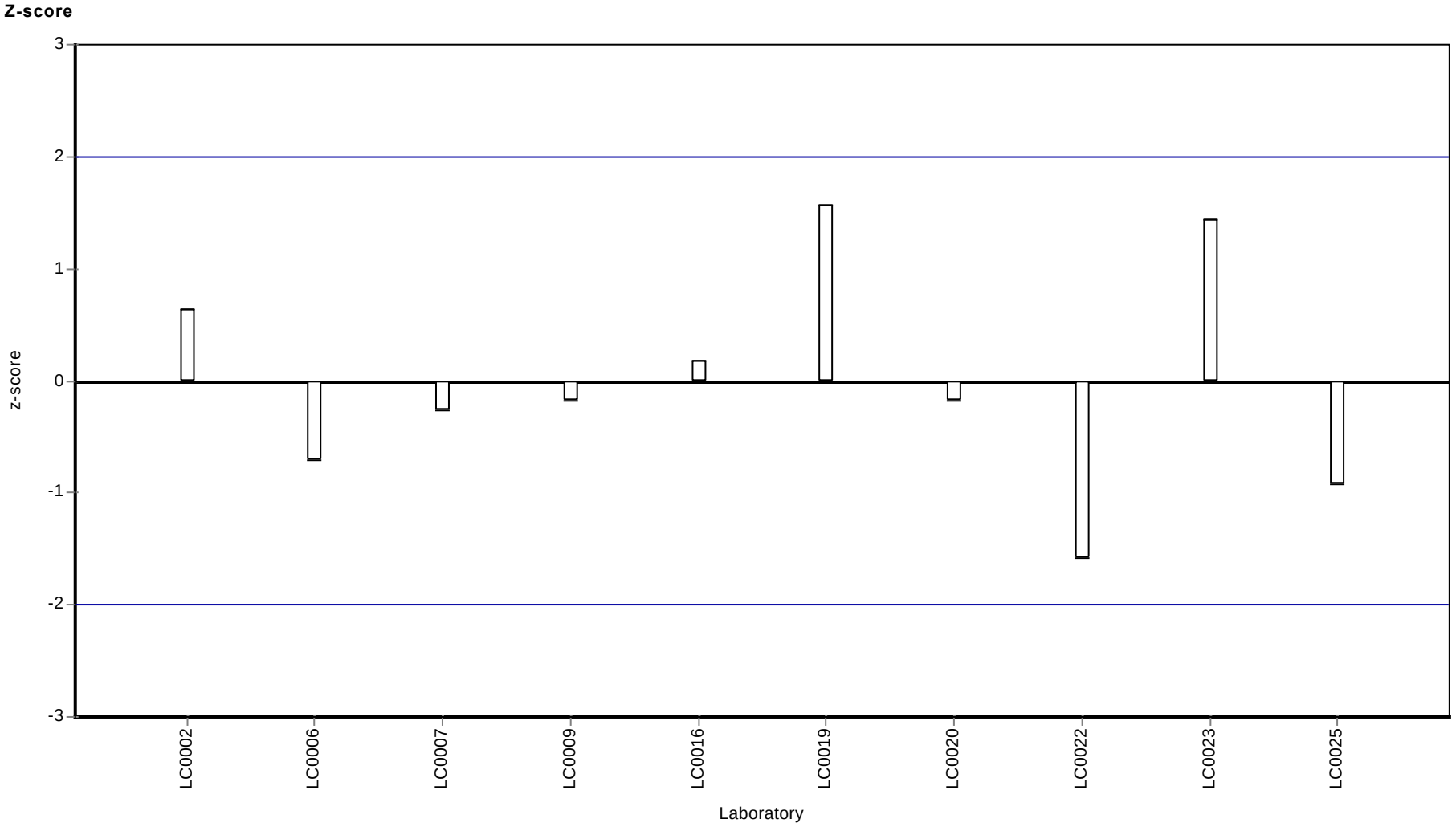
Graphical presentation of results

Results



Recovery rate




Z-score
3
2
1
0
-1
-2
-3
z-score
LC0002
LC0006
LC0007
LC0009
LC0016
LC0019
LC0020
LC0022
LC0023
LC0025
Laboratory

8 Laboratory oriented report

The laboratory oriented report is sorted by laboratory code.

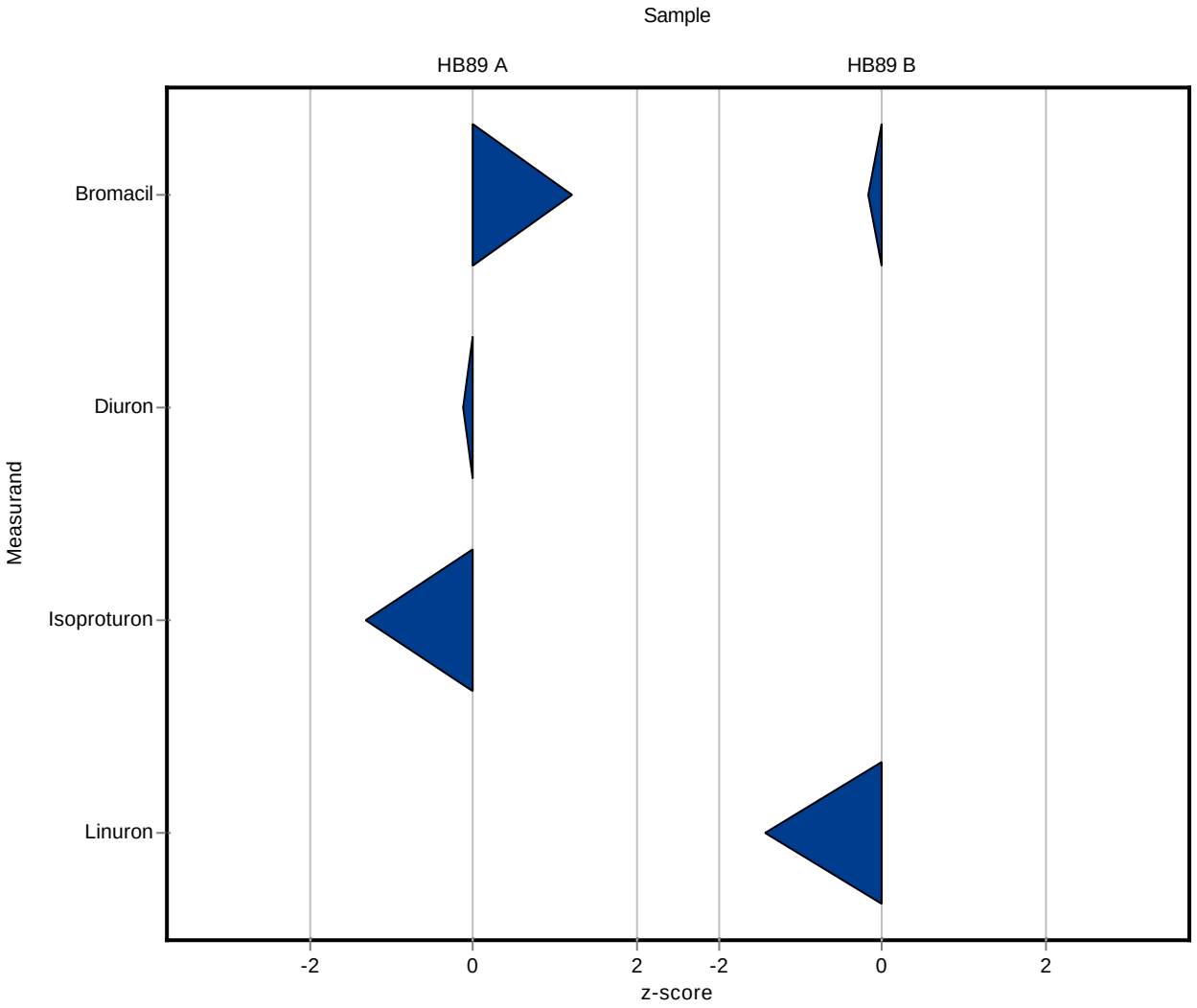
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	± 0.0926	1.07	0.16	0.123	116.2	1.21
Diuron	µg/l	0.113	± 0.0159	0.11	0.016	0.0237	97.5	-0.12
Chloridazon	µg/l	0.503	± 0.033	-	-	0.0427	-	-
Desphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Isoproturon	µg/l	0.246	± 0.0136	0.22	0.033	0.0197	89.4	-1.33
Linuron	µg/l	-	± -	<0.05 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	± 0.0147	-	-	0.0162	-	-
Glufosinate	µg/l	-	± -	-	-	-	-	-
AMPA	µg/l	0.658	± 0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	± 0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	± 0.0951	1.38	0.22	0.119	98.6	-0.17
Diuron	µg/l	-	± -	<0.05 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	± -	-	-	-	-	-
Desphenylchloridazon	µg/l	0.111	± 0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	± 0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	± -	<0.05 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	± 0.0886	0.547	0.08	0.132	74.4	-1.43
Glyphosate	µg/l	0.477	± 0.0838	-	-	0.108	-	-
Glufosinate	µg/l	0.172	± 0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	± -	-	-	-	-	-
Dimethylsulfamide	µg/l	0.344	± 0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Bromacil
Diuron
Isoproturon
Linuron
Measurand
-2
0
2
-2
0
2
z-score

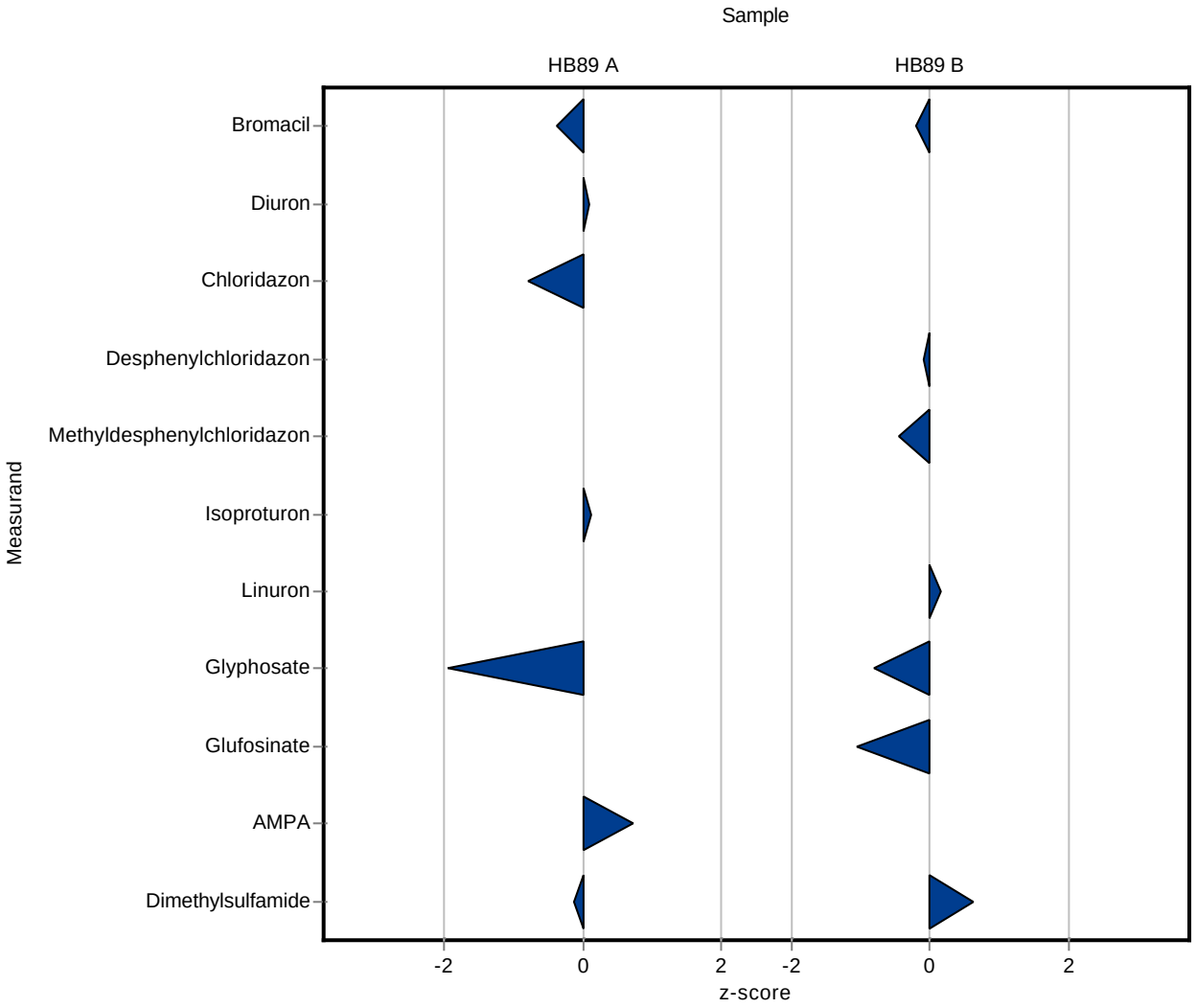
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	0.8724	0.1506	0.123	94.7	-0.39
Diuron	µg/l	0.113	±	0.0159	0.115	0.0219	0.0237	102.0	0.09
Chloridazon	µg/l	0.503	±	0.033	0.4697	0.0892	0.0427	93.3	-0.79
Desphenylchloridazon	µg/l	-	±	-	<0.025 (LOQ)	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	<0.025 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.2485	0.0472	0.0197	101.0	0.12
Linuron	µg/l	-	±	-	<0.025 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	0.1015	0.0396	0.0162	76.2	-1.95
Glufosinate	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
AMPA	µg/l	0.658	±	0.245	0.8793	0.3429	0.305	133.6	0.72
Dimethylsulfamide	µg/l	0.415	±	0.0568	0.4075	0.1345	0.0599	98.1	-0.13

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.3779	0.2618	0.119	98.4	-0.19
Diuron	µg/l	-	±	-	<0.025 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.025 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	0.1086	0.0293	0.0256	98.1	-0.08
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	0.1314	0.0434	0.0116	96.1	-0.46
Isoproturon	µg/l	-	±	-	<0.025 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.7559	0.1436	0.132	102.8	0.15
Glyphosate	µg/l	0.477	±	0.0838	0.3912	0.1526	0.108	82.0	-0.80
Glufosinate	µg/l	0.172	±	0.0442	0.1246	0.0485	0.0442	72.6	-1.06
AMPA	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	0.3781	0.1248	0.0532	109.8	0.64


Sample
HB89 A
HB89 B
Measurand
Bromacil
Diuron
Chloridazon
Desphenylchloridazon
Methyldesphenylchloridazon
Isoproturon
Linuron
Glyphosate
Glufosinate
AMPA
Dimethylsulfamide
-2
0
2
-2
0
2
z-score

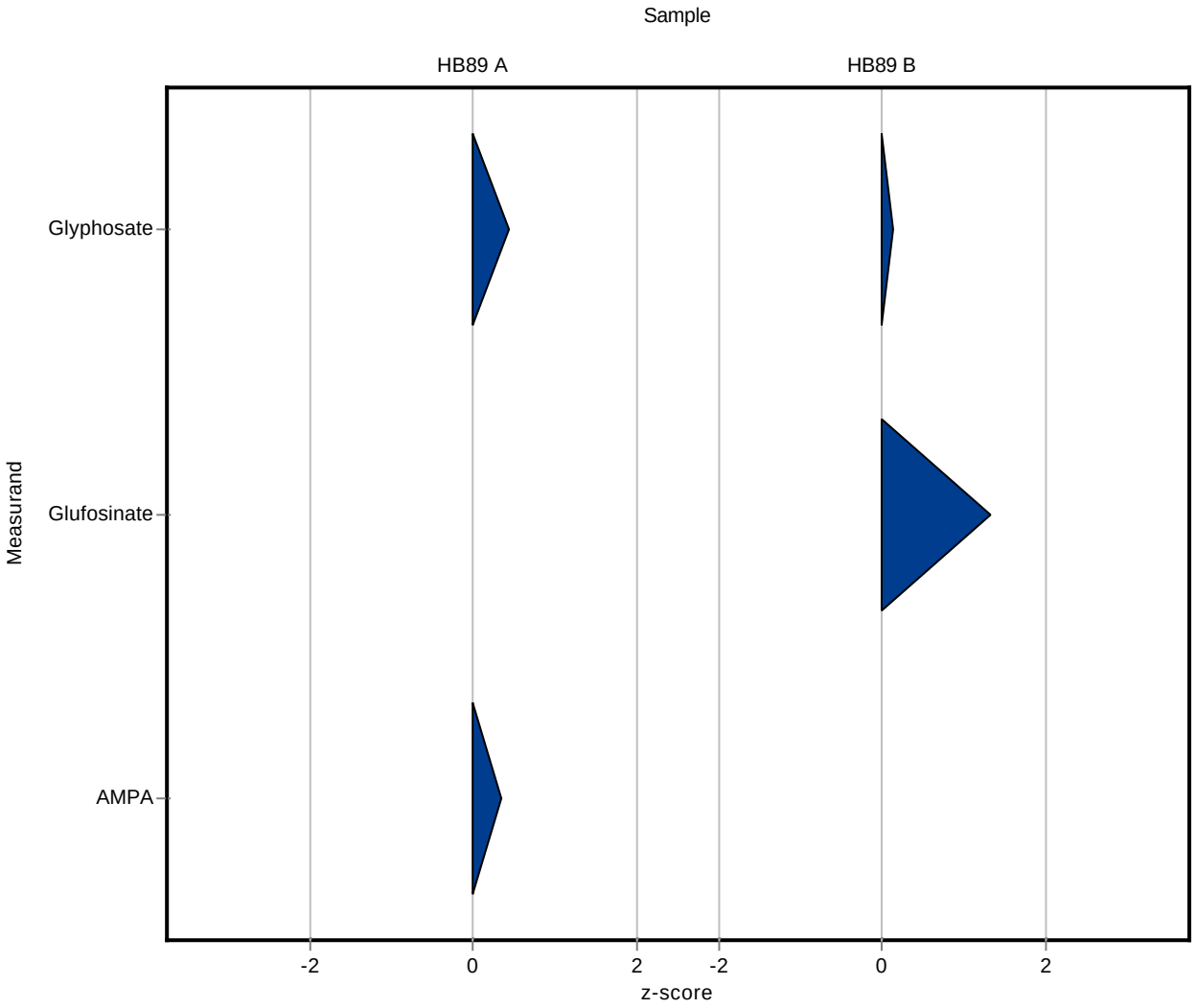
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	± 0.0926	-	-	0.123	-	-
Diuron	µg/l	0.113	± 0.0159	-	-	0.0237	-	-
Chloridazon	µg/l	0.503	± 0.033	-	-	0.0427	-	-
Desphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Isoproturon	µg/l	0.246	± 0.0136	-	-	0.0197	-	-
Linuron	µg/l	-	± -	-	-	-	-	-
Glyphosate	µg/l	0.133	± 0.0147	0.14	0.03	0.0162	105.2	0.42
Glufosinate	µg/l	-	± -	<0.02 (LOQ)	-	-	-	-
AMPA	µg/l	0.658	± 0.245	0.76	0.14	0.305	115.5	0.33
Dimethylsulfamide	µg/l	0.415	± 0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	± 0.0951	-	-	0.119	-	-
Diuron	µg/l	-	± -	-	-	-	-	-
Chloridazon	µg/l	-	± -	-	-	-	-	-
Desphenylchloridazon	µg/l	0.111	± 0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	± 0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	± -	-	-	-	-	-
Linuron	µg/l	0.736	± 0.0886	-	-	0.132	-	-
Glyphosate	µg/l	0.477	± 0.0838	0.49	0.09	0.108	102.7	0.12
Glufosinate	µg/l	0.172	± 0.0442	0.23	0.05	0.0442	134.0	1.32
AMPA	µg/l	-	± -	0.02	0.01	-	-	-
Dimethylsulfamide	µg/l	0.344	± 0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Glyphosate
Glufosinate
AMPA
Measurand
-2
0
2
-2
0
2
z-score

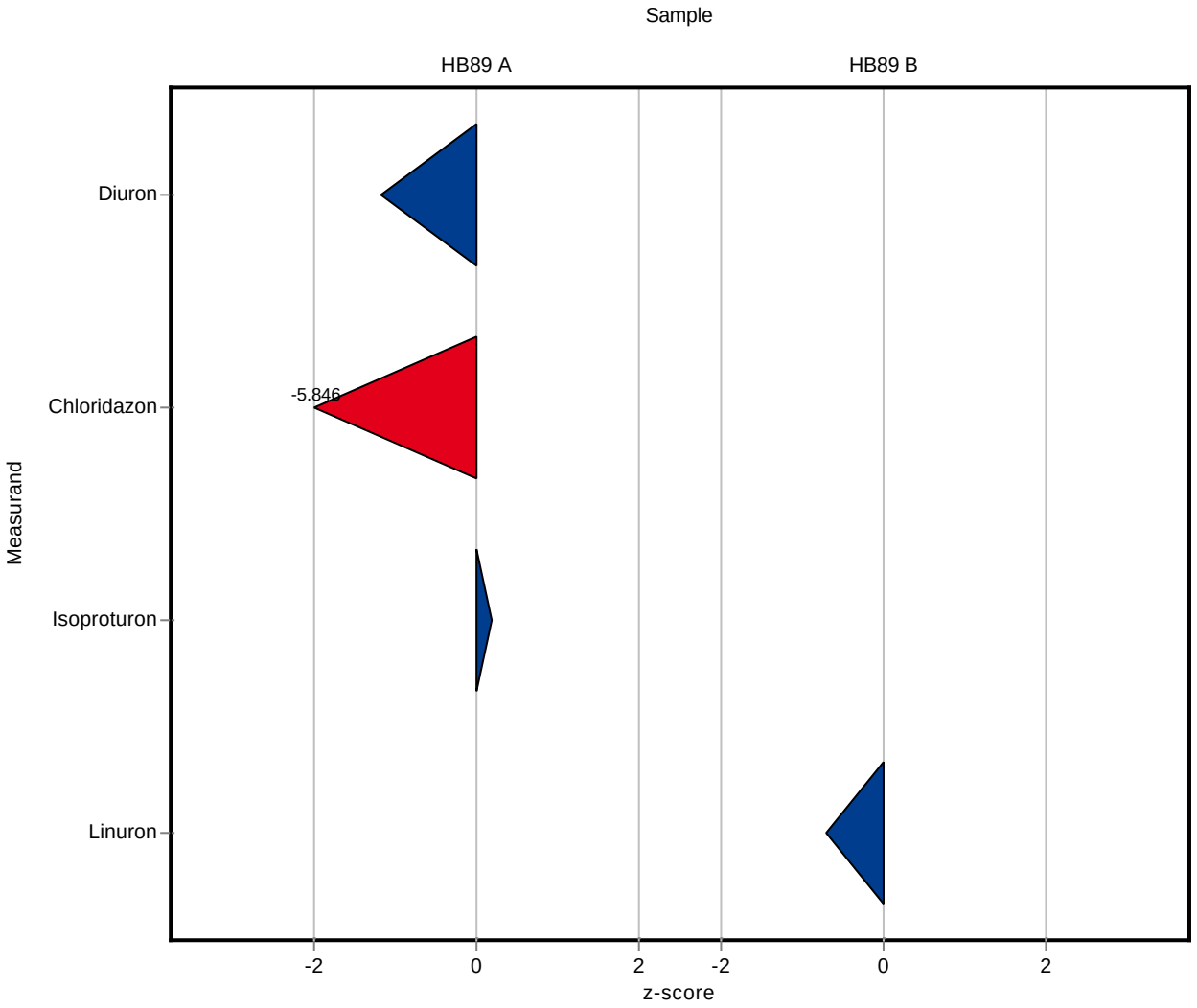
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	-	-	0.123	-	-
Diuron	µg/l	0.113	±	0.0159	0.085	0.009	0.0237	75.4	-1.17
Chloridazon	µg/l	0.503	±	0.033	0.254	0.038	0.0427	50.5	-5.85
Desphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.25	0.025	0.0197	101.6	0.20
Linuron	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	-	-	0.0162	-	-
Glufosinate	µg/l	-	±	-	-	-	-	-	-
AMPA	µg/l	0.658	±	0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	±	0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	-	-	0.119	-	-
Diuron	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.03 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	±	-	<0.015 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.641	0.064	0.132	87.1	-0.72
Glyphosate	µg/l	0.477	±	0.0838	-	-	0.108	-	-
Glufosinate	µg/l	0.172	±	0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	±	-	-	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Diuron
Chloridazon
Isoproturon
Linuron
Measurand
-5.846
-2
0
2
-2
0
2
z-score

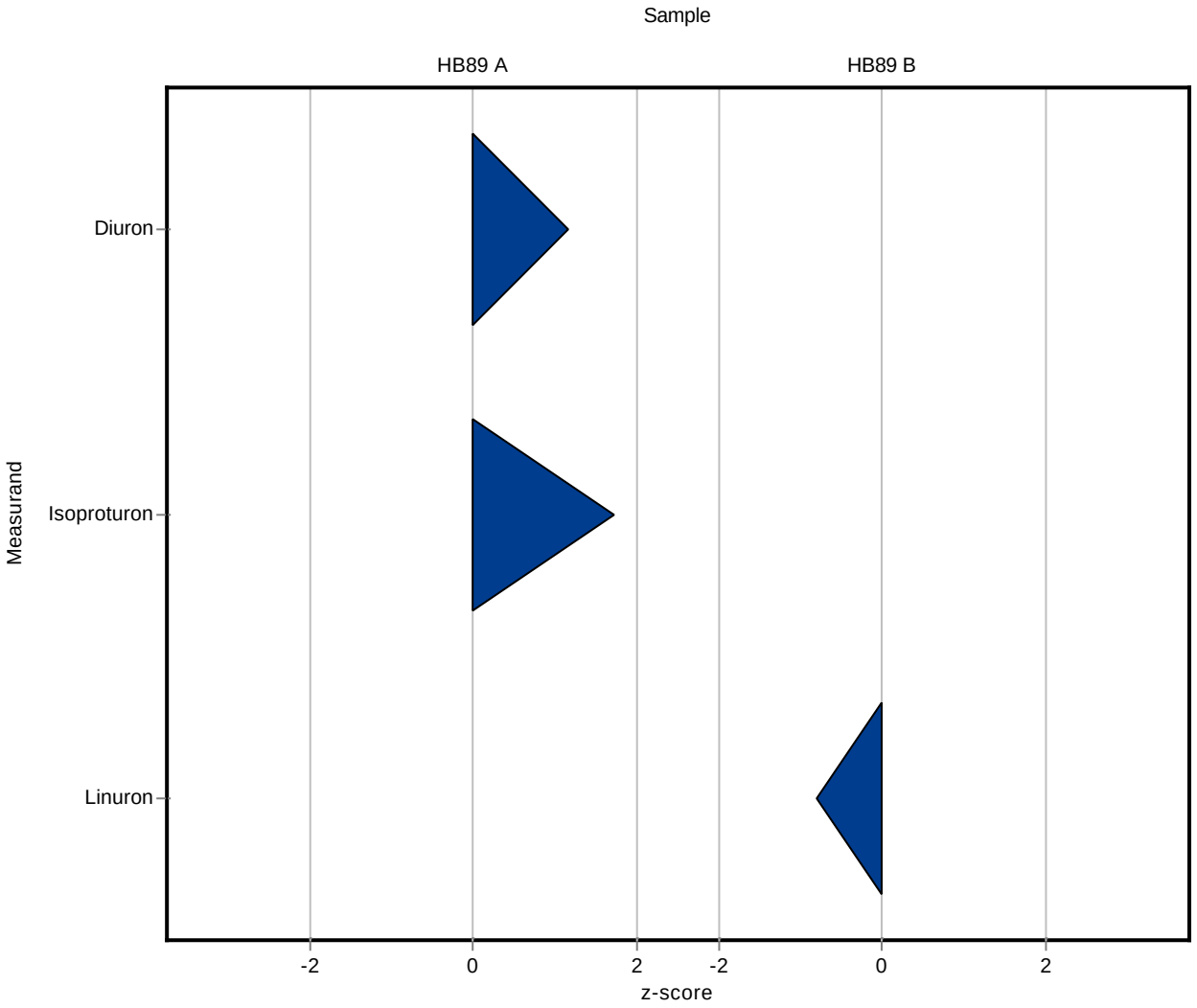
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	± 0.0926	-	-	0.123	-	-
Diuron	µg/l	0.113	± 0.0159	0.14	0.04	0.0237	124.1	1.15
Chloridazon	µg/l	0.503	± 0.033	-	-	0.0427	-	-
Desphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Isoproturon	µg/l	0.246	± 0.0136	0.28	0.08	0.0197	113.8	1.72
Linuron	µg/l	-	± -	<0.05 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	± 0.0147	-	-	0.0162	-	-
Glufosinate	µg/l	-	± -	-	-	-	-	-
AMPA	µg/l	0.658	± 0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	± 0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	± 0.0951	-	-	0.119	-	-
Diuron	µg/l	-	± -	<0.05 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	± -	-	-	-	-	-
Desphenylchloridazon	µg/l	0.111	± 0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	± 0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	± -	<0.05 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	± 0.0886	0.63	0.09	0.132	85.6	-0.80
Glyphosate	µg/l	0.477	± 0.0838	-	-	0.108	-	-
Glufosinate	µg/l	0.172	± 0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	± -	-	-	-	-	-
Dimethylsulfamide	µg/l	0.344	± 0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Measurand
Diuron
Isoproturon
Linuron
-2
0
2
-2
0
2
z-score

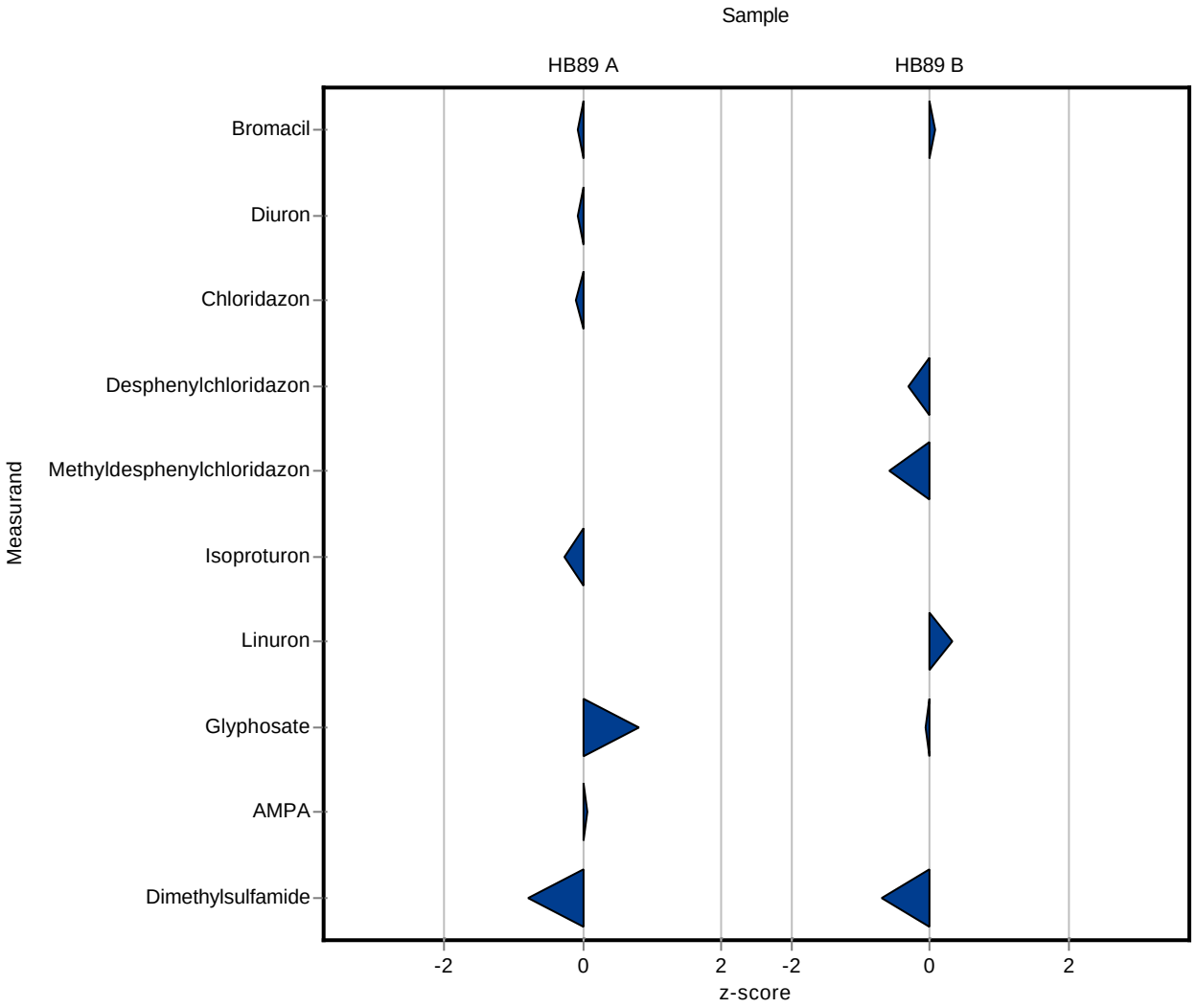
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	0.912	0.091	0.123	99.0	-0.07
Diuron	µg/l	0.113	±	0.0159	0.111	0.011	0.0237	98.4	-0.08
Chloridazon	µg/l	0.503	±	0.033	0.499	0.05	0.0427	99.1	-0.10
Desphenylchloridazon	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.241	0.024	0.0197	97.9	-0.26
Linuron	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	0.146	0.018	0.0162	109.7	0.79
Glufosinate	µg/l	-	±	-	-	-	-	-	-
AMPA	µg/l	0.658	±	0.245	0.672	0.081	0.305	102.1	0.05
Dimethylsulfamide	µg/l	0.415	±	0.0568	0.368	0.037	0.0599	88.6	-0.79

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.41	0.141	0.119	100.7	0.09
Diuron	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	0.103	0.01	0.0256	93.1	-0.30
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	0.13	0.013	0.0116	95.1	-0.58
Isoproturon	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.78	0.078	0.132	106.0	0.34
Glyphosate	µg/l	0.477	±	0.0838	0.47	0.056	0.108	98.5	-0.07
Glufosinate	µg/l	0.172	±	0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	0.307	0.031	0.0532	89.2	-0.70


Sample
HB89 A
HB89 B
Measurand
Bromacil
Diuron
Chloridazon
Desphenylchloridazon
Methyldesphenylchloridazon
Isoproturon
Linuron
Glyphosate
AMPA
Dimethylsulfamide
-2
0
2
-2
0
2
z-score

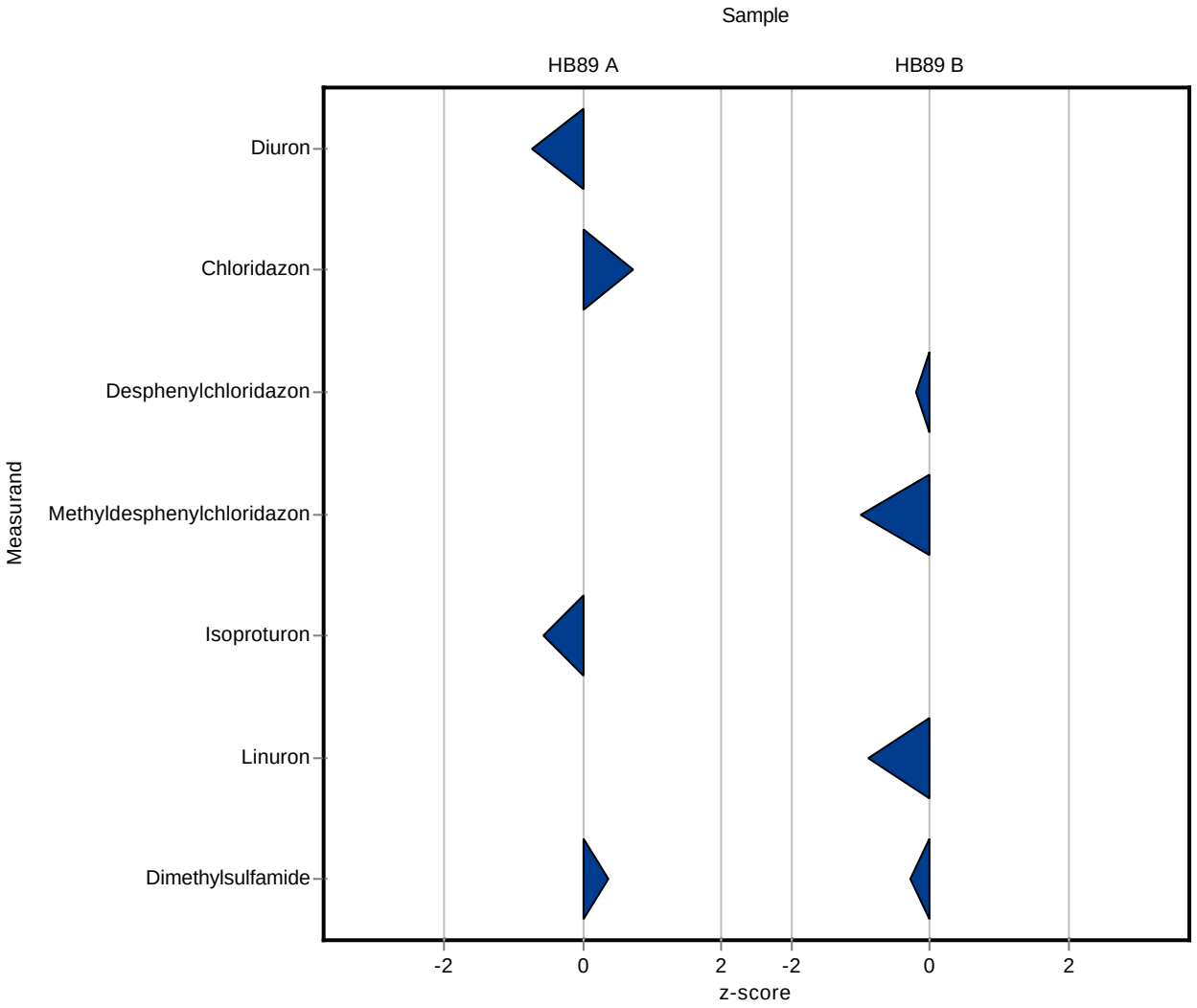
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	-	-	0.123	-	-
Diuron	µg/l	0.113	±	0.0159	0.095	0.019	0.0237	84.2	-0.75
Chloridazon	µg/l	0.503	±	0.033	0.534	0.107	0.0427	106.1	0.72
Desphenylchloridazon	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.235	0.047	0.0197	95.5	-0.56
Linuron	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	-	-	0.0162	-	-
Glufosinate	µg/l	-	±	-	-	-	-	-	-
AMPA	µg/l	0.658	±	0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	±	0.0568	0.437	0.087	0.0599	105.2	0.36

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	-	-	0.119	-	-
Diuron	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	0.106	0.021	0.0256	95.8	-0.18
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	0.125	0.025	0.0116	91.4	-1.00
Isoproturon	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.62	0.124	0.132	84.3	-0.88
Glyphosate	µg/l	0.477	±	0.0838	-	-	0.108	-	-
Glufosinate	µg/l	0.172	±	0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	±	-	-	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	0.33	0.066	0.0532	95.8	-0.27


Sample
HB89 A
HB89 B
Diuron
Chloridazon
Desphenylchloridazon
Methyldesphenylchloridazon
Isoproturon
Linuron
Dimethylsulfamide
Measurand
-2
0
2
-2
0
2
z-score

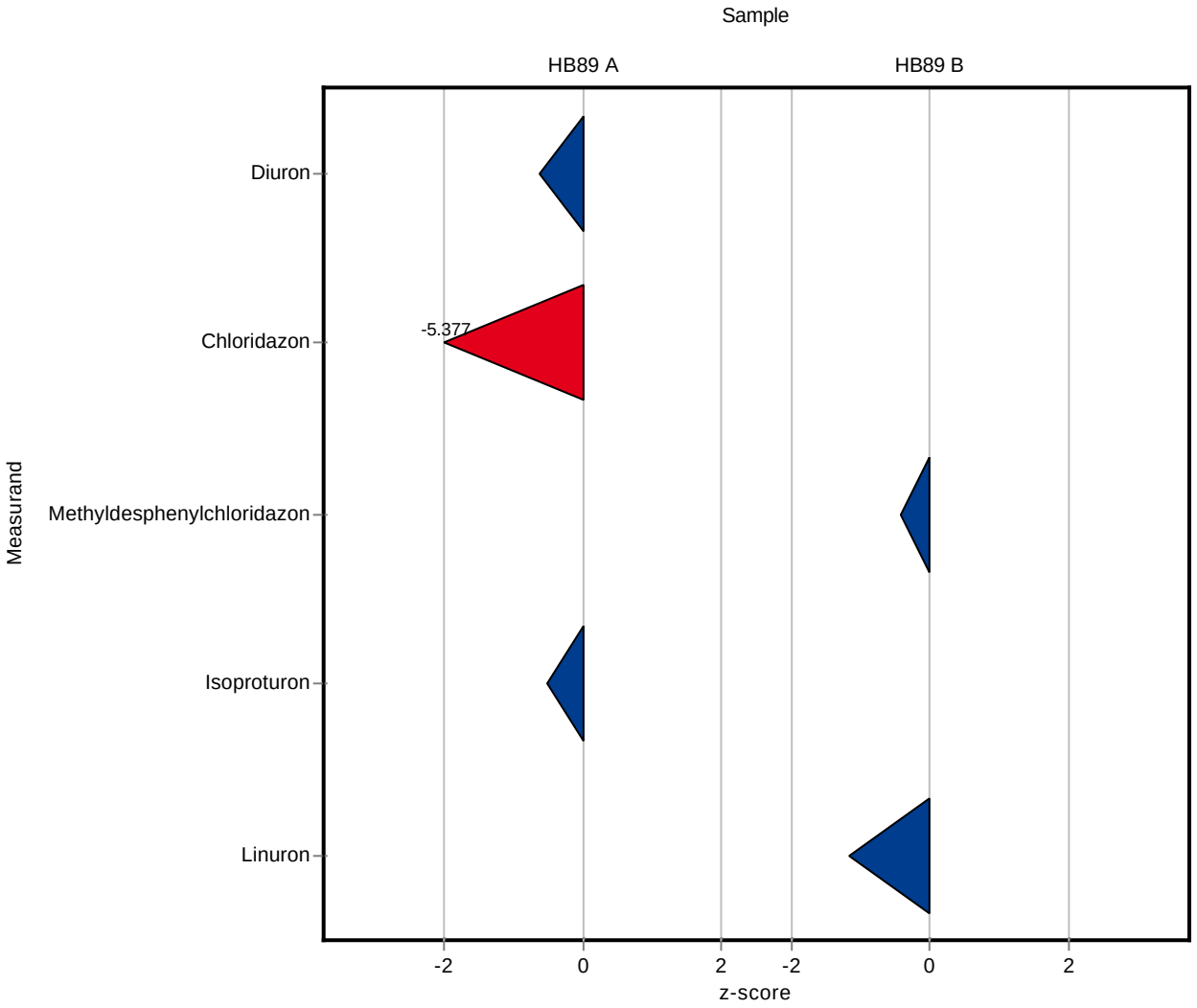
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	± 0.0926	-	-	0.123	-	-
Diuron	µg/l	0.113	± 0.0159	0.098	0.0147	0.0237	86.9	-0.63
Chloridazon	µg/l	0.503	± 0.033	0.274	0.0411	0.0427	54.4	-5.38
Desphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	± -	<0.005 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	± 0.0136	0.236	0.0354	0.0197	95.9	-0.51
Linuron	µg/l	-	± -	<0.004 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	± 0.0147	-	-	0.0162	-	-
Glufosinate	µg/l	-	± -	-	-	-	-	-
AMPA	µg/l	0.658	± 0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	± 0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	± 0.0951	-	-	0.119	-	-
Diuron	µg/l	-	± -	0.006	0.0009	-	-	-
Chloridazon	µg/l	-	± -	<0.001 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	± 0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	± 0.0101	0.132	0.0198	0.0116	96.6	-0.40
Isoproturon	µg/l	-	± -	<0.002 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	± 0.0886	0.584	0.0876	0.132	79.4	-1.15
Glyphosate	µg/l	0.477	± 0.0838	-	-	0.108	-	-
Glufosinate	µg/l	0.172	± 0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	± -	-	-	-	-	-
Dimethylsulfamide	µg/l	0.344	± 0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Diuron
Chloridazon
-5.377
Methyldesphenylchloridazon
Isoproturon
Linuron
Measurand
-2
0
2
-2
0
2
z-score

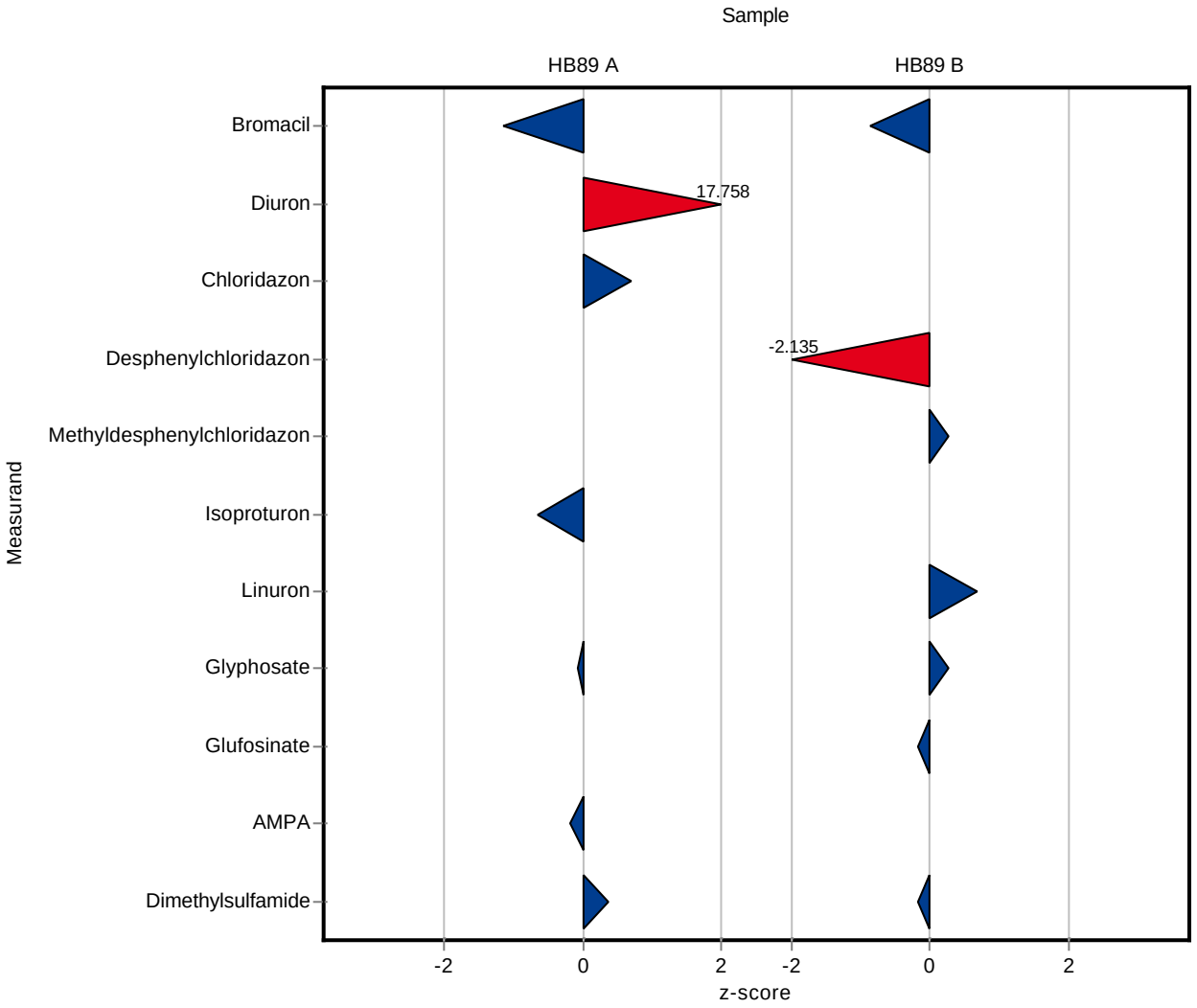
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	0.777	0.078	0.123	84.4	-1.17
Diuron	µg/l	0.113	±	0.0159	0.533	0.053	0.0237	472.5	17.76
Chloridazon	µg/l	0.503	±	0.033	0.533	0.053	0.0427	105.9	0.69
Desphenylchloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	<0.025 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.233	0.023	0.0197	94.7	-0.67
Linuron	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	0.132	0.025	0.0162	99.1	-0.07
Glufosinate	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
AMPA	µg/l	0.658	±	0.245	0.602	0.095	0.305	91.5	-0.18
Dimethylsulfamide	µg/l	0.415	±	0.0568	0.437	0.044	0.0599	105.2	0.36

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.298	0.13	0.119	92.7	-0.86
Diuron	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	0.056	0.006	0.0256	50.6	-2.13
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	0.14	0.014	0.0116	102.4	0.28
Isoproturon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.827	0.083	0.132	112.4	0.69
Glyphosate	µg/l	0.477	±	0.0838	0.508	0.109	0.108	106.4	0.28
Glufosinate	µg/l	0.172	±	0.0442	0.164	0.016	0.0442	95.6	-0.17
AMPA	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	0.335	0.034	0.0532	97.3	-0.18


Sample
HB89 A
HB89 B
Bromacil
Diuron
Chloridazon
Desphenylchloridazon
Methyldesphenylchloridazon
Isoproturon
Linuron
Glyphosate
Glufosinate
AMPA
Dimethylsulfamide
17.758
-2.135
Measurand
-2
0
2
-2
0
2
z-score

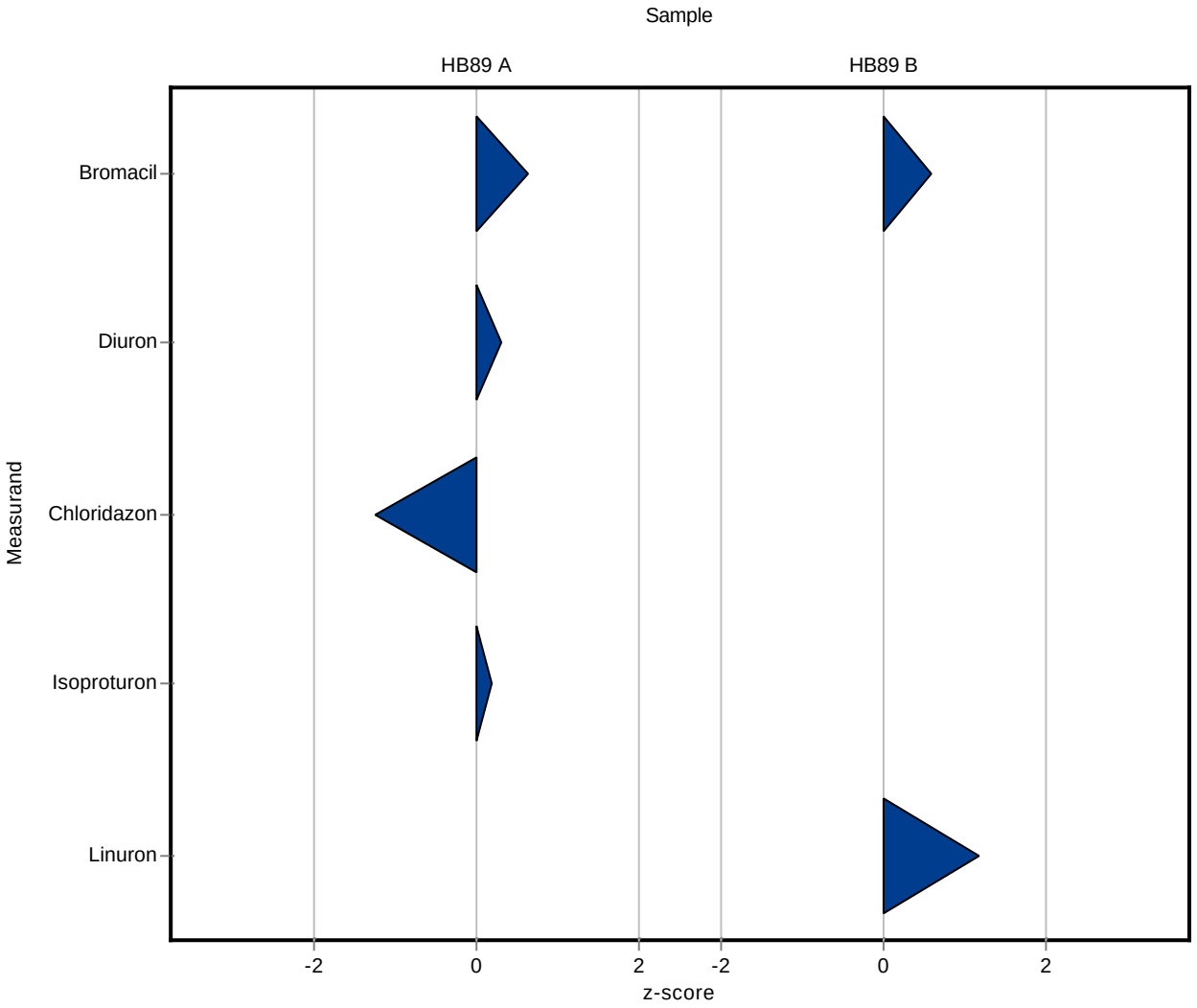
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	1	0.3	0.123	108.6	0.64
Diuron	µg/l	0.113	±	0.0159	0.12	0.04	0.0237	106.4	0.30
Chloridazon	µg/l	0.503	±	0.033	0.45	0.14	0.0427	89.4	-1.25
Desphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.25	0.08	0.0197	101.6	0.20
Linuron	µg/l	-	±	-	<0.004 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	-	-	0.0162	-	-
Glufosinate	µg/l	-	±	-	-	-	-	-	-
AMPA	µg/l	0.658	±	0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	±	0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.47	0.44	0.119	105.0	0.59
Diuron	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.003 (LOD)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	±	-	<0.005 (LOD)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.89	0.26	0.132	121.0	1.17
Glyphosate	µg/l	0.477	±	0.0838	-	-	0.108	-	-
Glufosinate	µg/l	0.172	±	0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	±	-	-	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Bromacil
Diuron
Chloridazon
Isoproturon
Linuron
Measurand
-2
0
2
-2
0
2
z-score

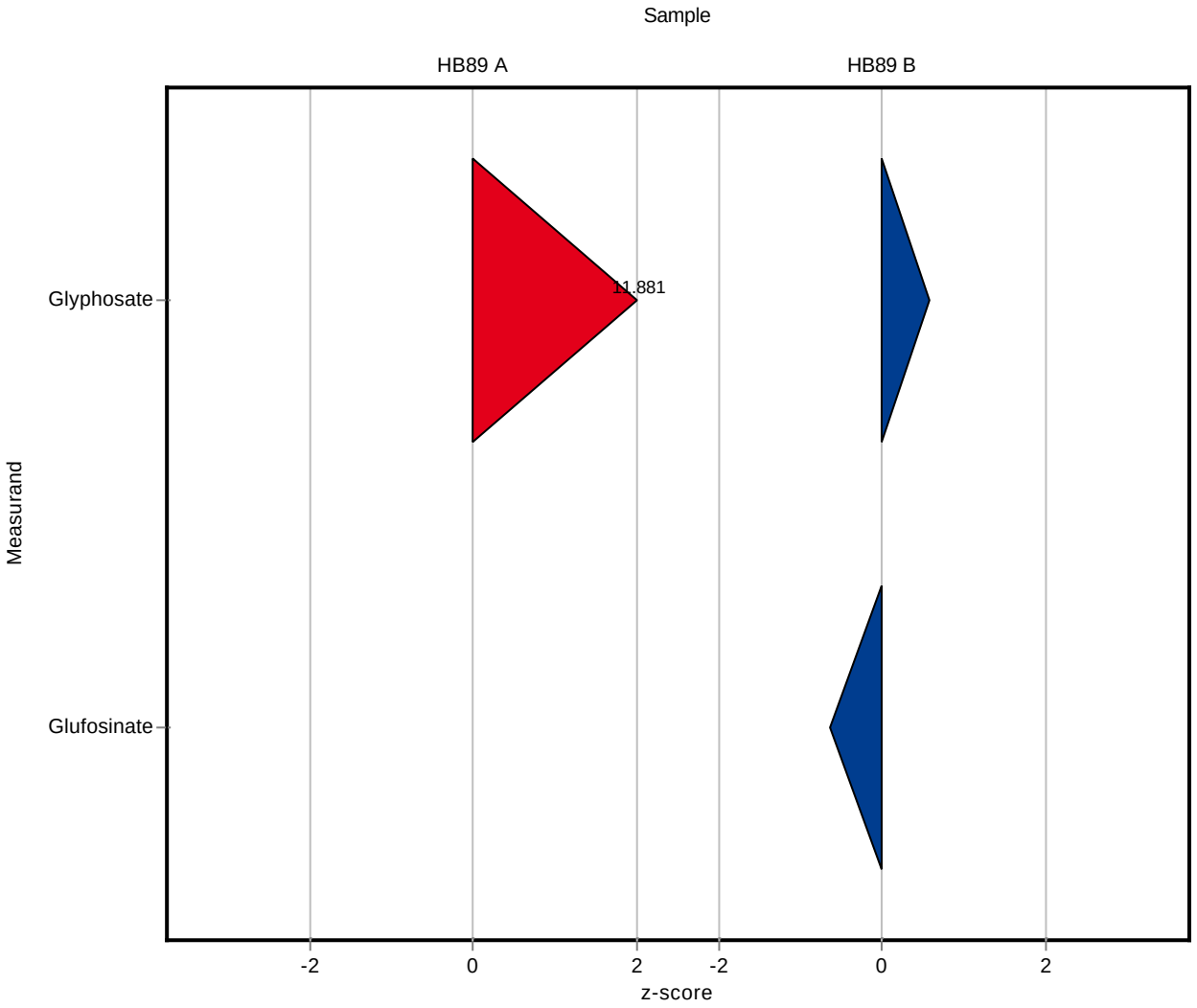
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	-	-	0.123	-	-
Diuron	µg/l	0.113	±	0.0159	-	-	0.0237	-	-
Chloridazon	µg/l	0.503	±	0.033	-	-	0.0427	-	-
Desphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	-	-	0.0197	-	-
Linuron	µg/l	-	±	-	-	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	0.326	0.039	0.0162	244.9	11.88
Glufosinate	µg/l	-	±	-	<0.077 (LOQ)	-	-	-	-
AMPA	µg/l	0.658	±	0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	±	0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	-	-	0.119	-	-
Diuron	µg/l	-	±	-	-	-	-	-	-
Chloridazon	µg/l	-	±	-	-	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	±	-	-	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	-	-	0.132	-	-
Glyphosate	µg/l	0.477	±	0.0838	0.538	0.062	0.108	112.7	0.56
Glufosinate	µg/l	0.172	±	0.0442	0.143	0.015	0.0442	83.3	-0.65
AMPA	µg/l	-	±	-	<0.048 (LOQ)	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Glyphosate
Glufosinate
11.881
Measurand
-2
0
2
-2
0
2
z-score

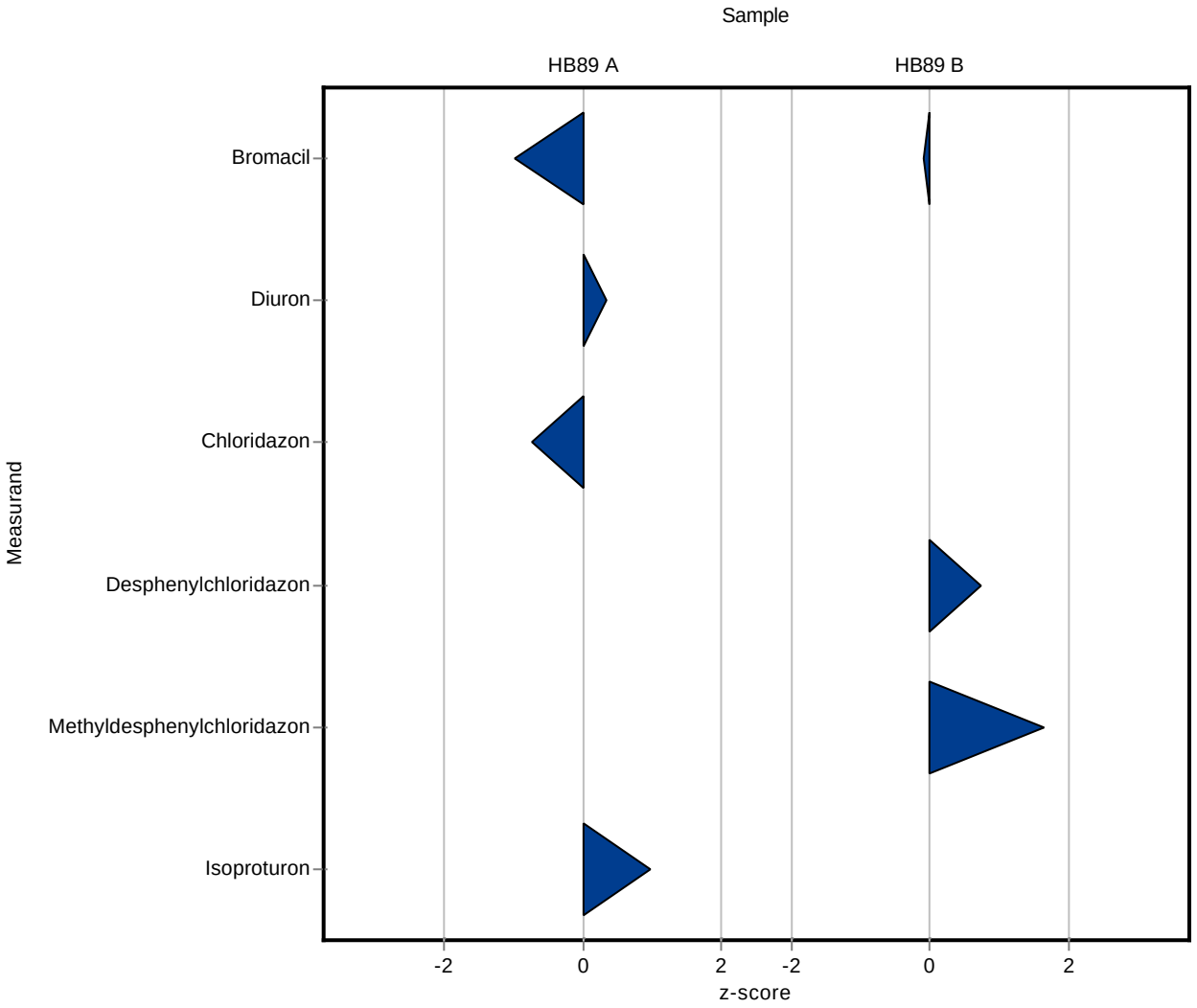
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	0.798	0.08	0.123	86.6	-1.00
Diuron	µg/l	0.113	±	0.0159	0.121	0.019	0.0237	107.3	0.35
Chloridazon	µg/l	0.503	±	0.033	0.472	0.071	0.0427	93.8	-0.74
Desphenylchloridazon	µg/l	-	±	-	<0.005 (LOQ)	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	<0.003 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.265	0.04	0.0197	107.7	0.96
Linuron	µg/l	-	±	-	-	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	-	-	0.0162	-	-
Glufosinate	µg/l	-	±	-	-	-	-	-	-
AMPA	µg/l	0.658	±	0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	±	0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.39	0.139	0.119	99.3	-0.08
Diuron	µg/l	-	±	-	<0.002 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.003 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	0.13	0.013	0.0256	117.4	0.75
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	0.156	0.027	0.0116	114.1	1.66
Isoproturon	µg/l	-	±	-	<0.001 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	-	-	0.132	-	-
Glyphosate	µg/l	0.477	±	0.0838	-	-	0.108	-	-
Glufosinate	µg/l	0.172	±	0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	±	-	-	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Measurand
Bromacil
Diuron
Chloridazon
Desphenylchloridazon
Methyldesphenylchloridazon
Isoproturon
-2
0
2
-2
0
2
z-score

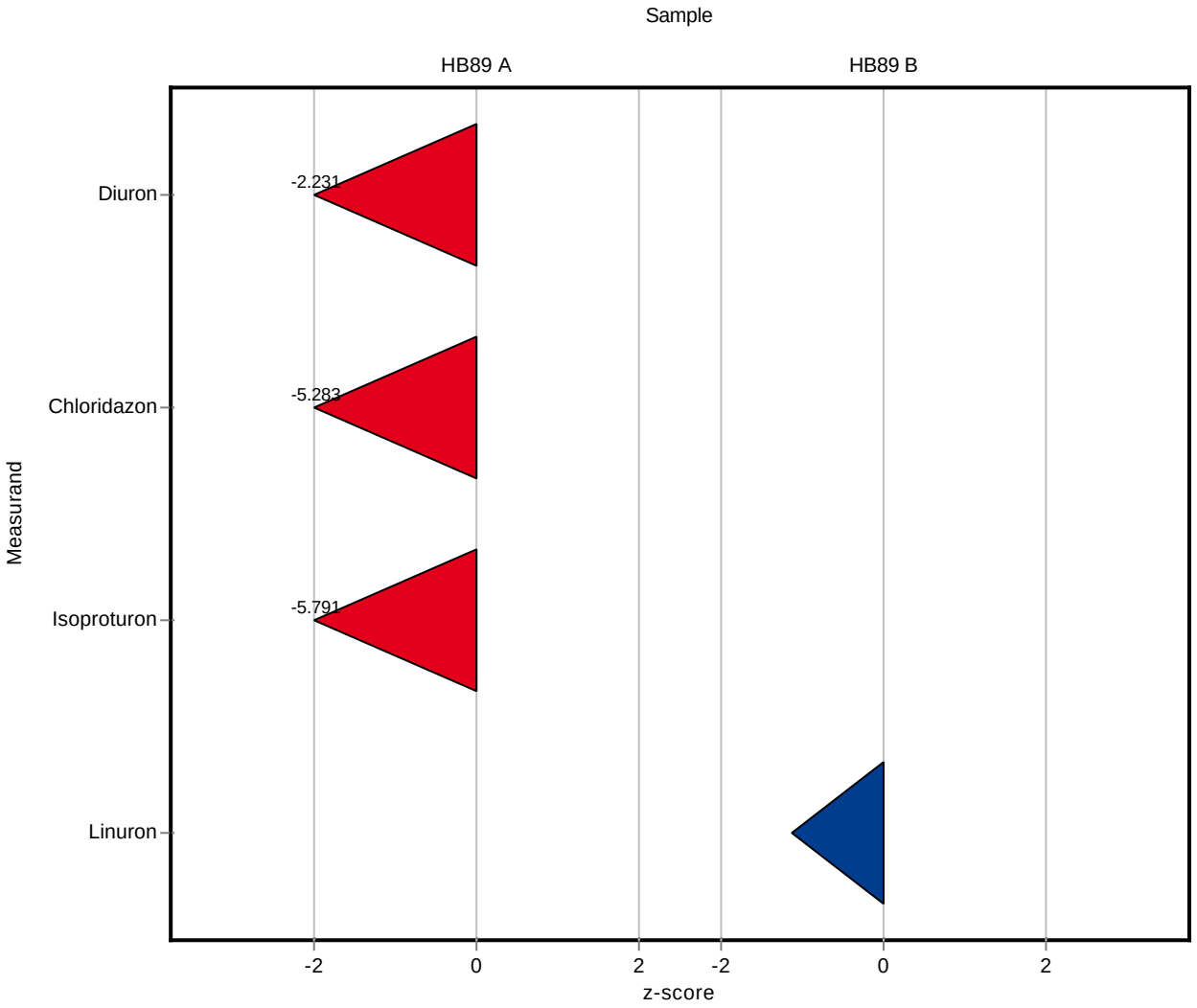
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	± 0.0926	-	-	0.123	-	-
Diuron	µg/l	0.113	± 0.0159	0.06	0.012	0.0237	53.2	-2.23
Chloridazon	µg/l	0.503	± 0.033	0.278	0.111	0.0427	55.2	-5.28
Desphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	± -	<0.1 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	± 0.0136	0.132	0.026	0.0197	53.6	-5.79
Linuron	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	± 0.0147	-	-	0.0162	-	-
Glufosinate	µg/l	-	± -	-	-	-	-	-
AMPA	µg/l	0.658	± 0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	± 0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	± 0.0951	-	-	0.119	-	-
Diuron	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	± -	<0.05 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	± 0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	± 0.0101	<0.1 (LOQ)	-	0.0116	-	-
Isoproturon	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	± 0.0886	0.586	0.107	0.132	79.7	-1.13
Glyphosate	µg/l	0.477	± 0.0838	-	-	0.108	-	-
Glufosinate	µg/l	0.172	± 0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	± -	-	-	-	-	-
Dimethylsulfamide	µg/l	0.344	± 0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Measurand
Diuron
Chloridazon
Isoproturon
Linuron
-2.231
-5.283
-5.791
-2
0
2
-2
0
2
z-score

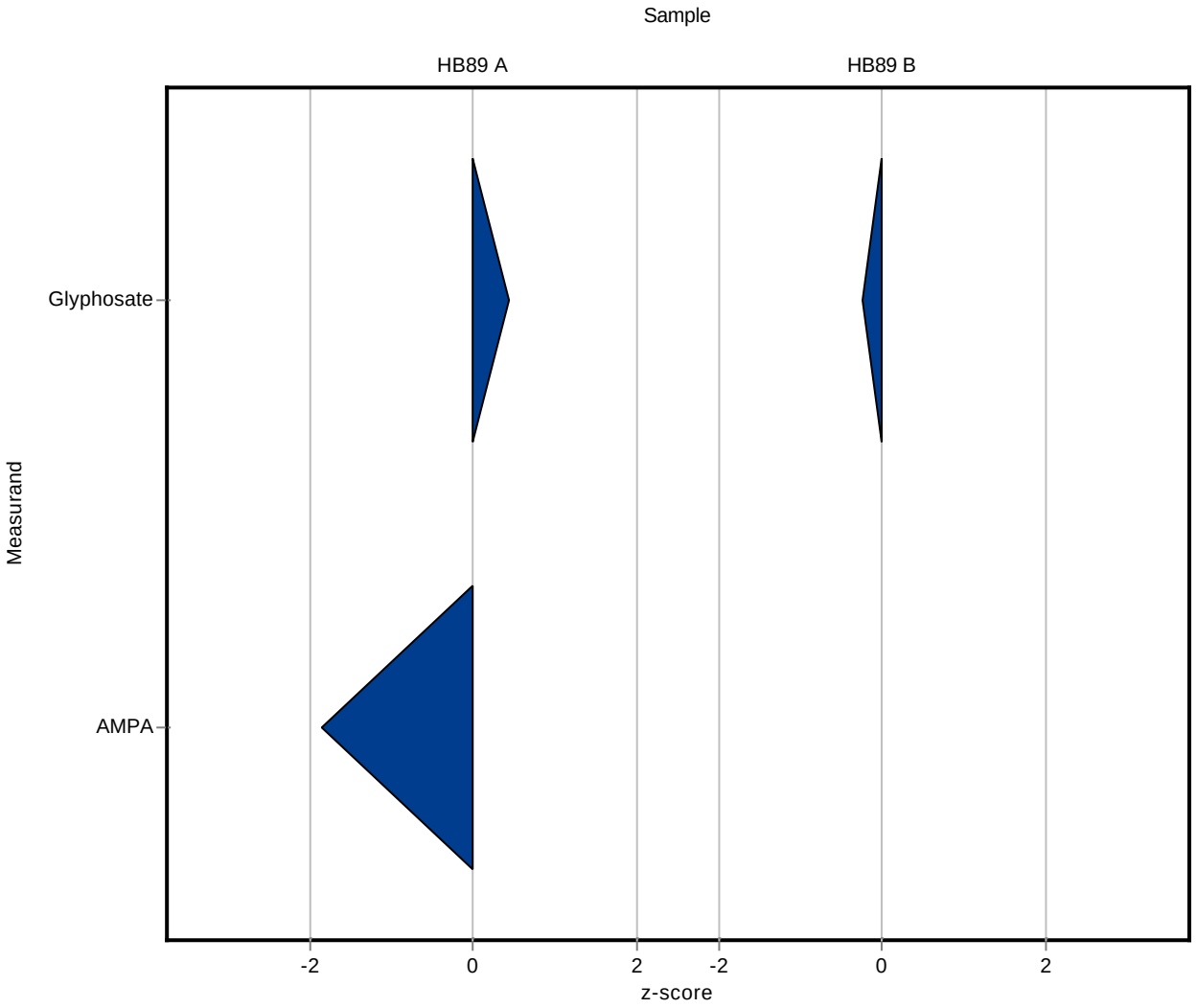
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	± 0.0926	-	-	0.123	-	-
Diuron	µg/l	0.113	± 0.0159	-	-	0.0237	-	-
Chloridazon	µg/l	0.503	± 0.033	-	-	0.0427	-	-
Desphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Isoproturon	µg/l	0.246	± 0.0136	-	-	0.0197	-	-
Linuron	µg/l	-	± -	-	-	-	-	-
Glyphosate	µg/l	0.133	± 0.0147	0.14	-	0.0162	105.2	0.42
Glufosinate	µg/l	-	± -	-	-	-	-	-
AMPA	µg/l	0.658	± 0.245	0.093	-	0.305	14.1	-1.85
Dimethylsulfamide	µg/l	0.415	± 0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	± 0.0951	-	-	0.119	-	-
Diuron	µg/l	-	± -	-	-	-	-	-
Chloridazon	µg/l	-	± -	-	-	-	-	-
Desphenylchloridazon	µg/l	0.111	± 0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	± 0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	± -	-	-	-	-	-
Linuron	µg/l	0.736	± 0.0886	-	-	0.132	-	-
Glyphosate	µg/l	0.477	± 0.0838	0.45	-	0.108	94.3	-0.25
Glufosinate	µg/l	0.172	± 0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	± -	0.05	-	-	-	-
Dimethylsulfamide	µg/l	0.344	± 0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Measurand
Glyphosate
AMPA
-2
0
2
-2
0
2
z-score

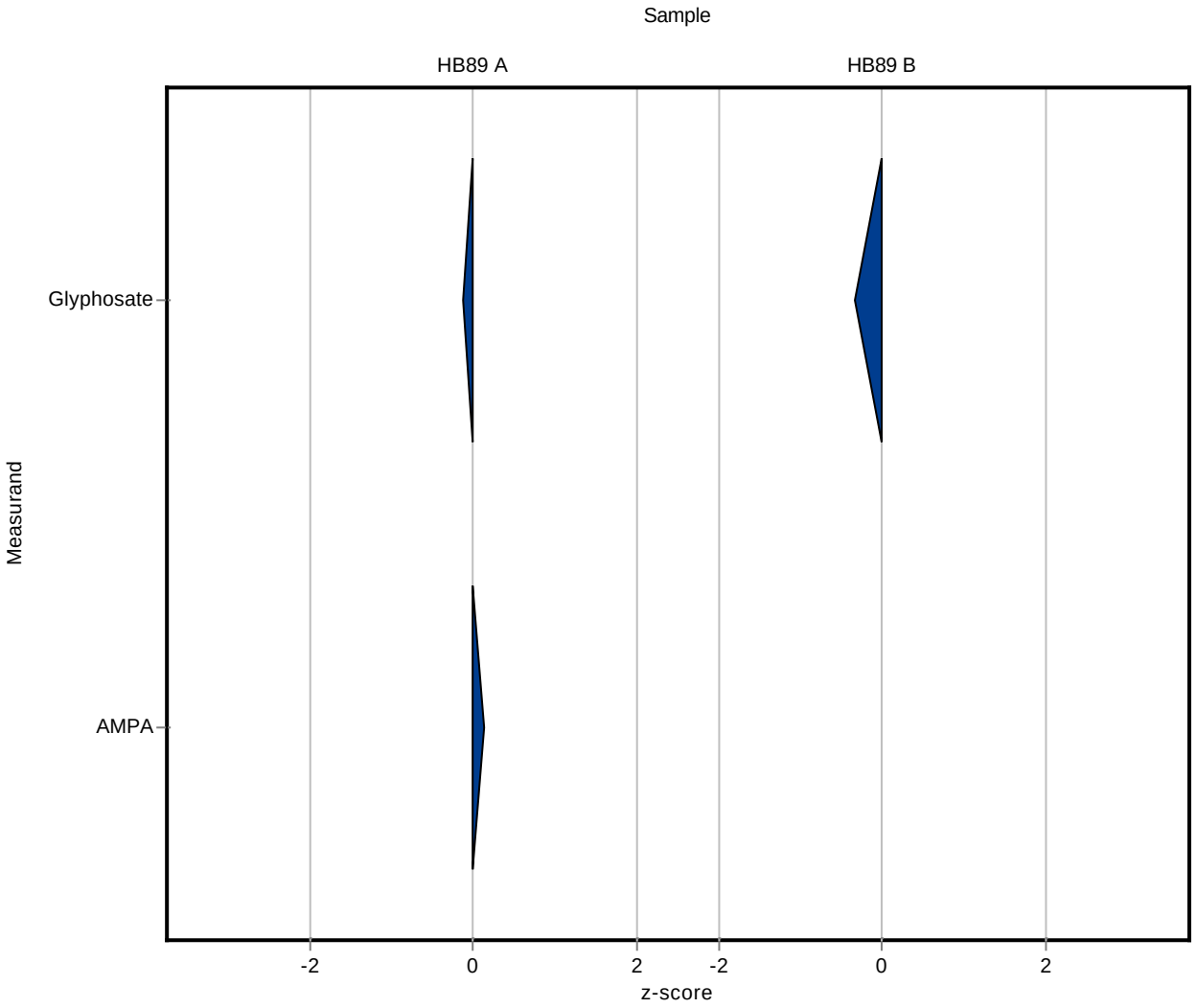
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	-	-	0.123	-	-
Diuron	µg/l	0.113	±	0.0159	-	-	0.0237	-	-
Chloridazon	µg/l	0.503	±	0.033	-	-	0.0427	-	-
Desphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	-	-	0.0197	-	-
Linuron	µg/l	-	±	-	-	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	0.131	0.026	0.0162	98.4	-0.13
Glufosinate	µg/l	-	±	-	-	-	-	-	-
AMPA	µg/l	0.658	±	0.245	0.696	0.139	0.305	105.8	0.12
Dimethylsulfamide	µg/l	0.415	±	0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	-	-	0.119	-	-
Diuron	µg/l	-	±	-	-	-	-	-	-
Chloridazon	µg/l	-	±	-	-	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	±	-	-	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	-	-	0.132	-	-
Glyphosate	µg/l	0.477	±	0.0838	0.44	0.088	0.108	92.2	-0.35
Glufosinate	µg/l	0.172	±	0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	±	-	0.0056	0.0011	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Glyphosate
AMPA
Measurand
-2
0
2
-2
0
2
z-score

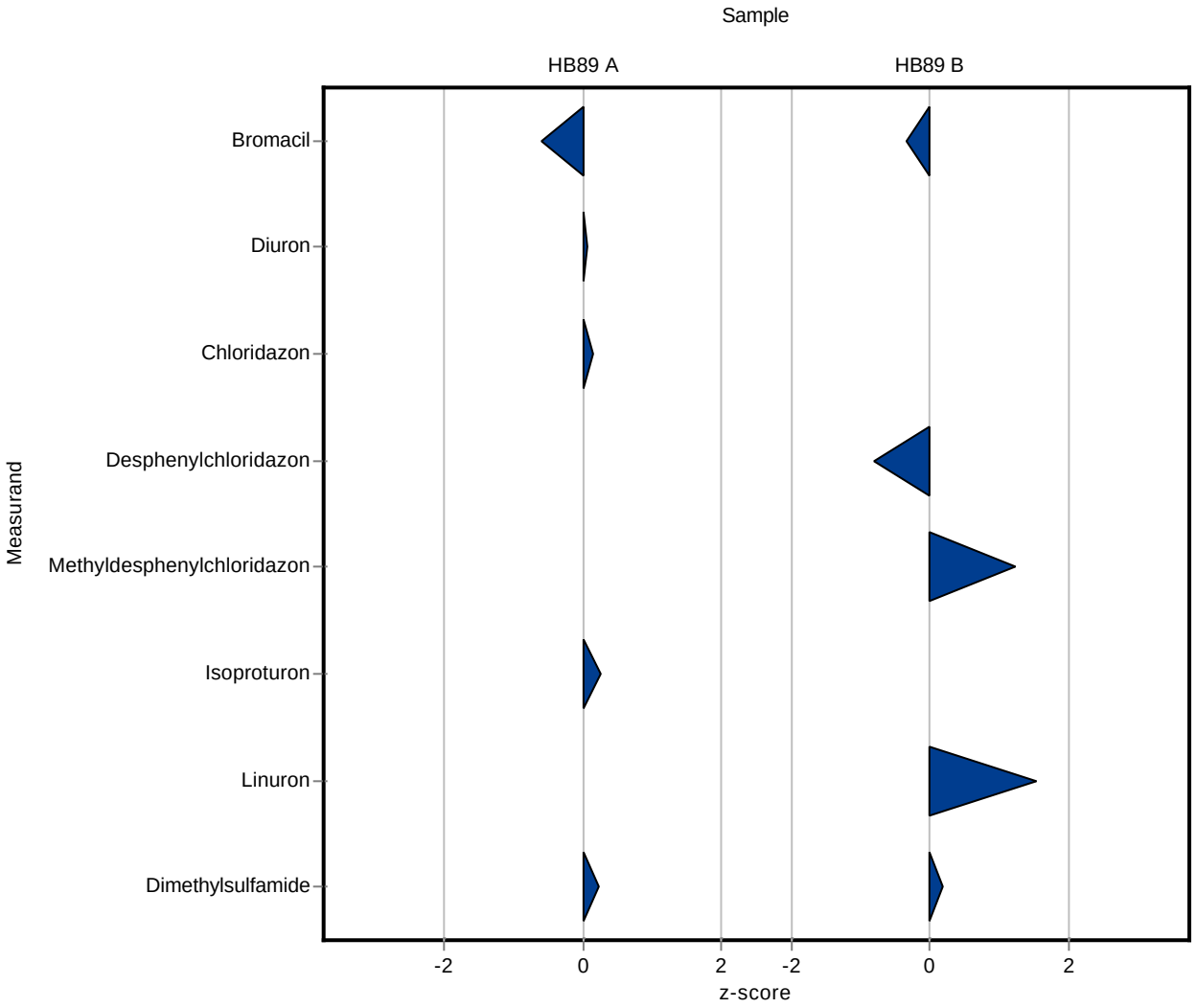
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	0.845	0.127	0.123	91.7	-0.62
Diuron	µg/l	0.113	±	0.0159	0.114	0.017	0.0237	101.1	0.05
Chloridazon	µg/l	0.503	±	0.033	0.509	0.076	0.0427	101.1	0.13
Desphenylchloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.251	0.038	0.0197	102.0	0.25
Linuron	µg/l	-	±	-	<0.03 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	-	-	0.0162	-	-
Glufosinate	µg/l	-	±	-	-	-	-	-	-
AMPA	µg/l	0.658	±	0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	±	0.0568	0.429	0.064	0.0599	103.3	0.23

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.361	0.204	0.119	97.2	-0.33
Diuron	µg/l	-	±	-	<0.03 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	0.09	0.015	0.0256	81.3	-0.81
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	0.151	0.023	0.0116	110.5	1.23
Isoproturon	µg/l	-	±	-	<0.03 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.939	0.141	0.132	127.6	1.54
Glyphosate	µg/l	0.477	±	0.0838	-	-	0.108	-	-
Glufosinate	µg/l	0.172	±	0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	±	-	-	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	0.354	0.053	0.0532	102.8	0.18


Sample
HB89 A
HB89 B
Measurand
Bromacil
Diuron
Chloridazon
Desphenylchloridazon
Methyldesphenylchloridazon
Isoproturon
Linuron
Dimethylsulfamide
-2
0
2
-2
0
2
z-score

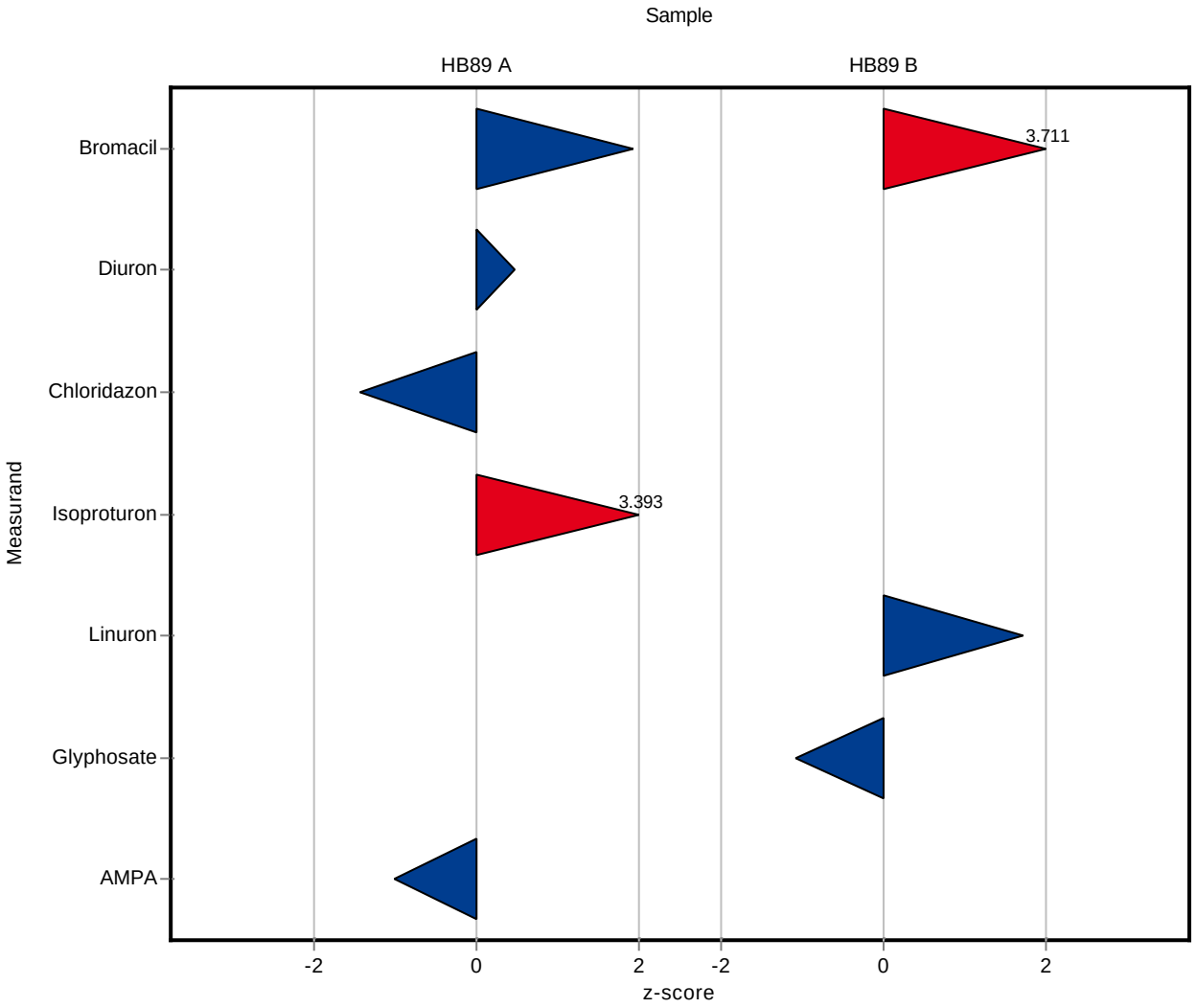
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	1.16	0.349	0.123	125.9	1.94
Diuron	µg/l	0.113	±	0.0159	0.124	0.037	0.0237	109.9	0.47
Chloridazon	µg/l	0.503	±	0.033	0.442	0.133	0.0427	87.8	-1.44
Desphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.313	0.094	0.0197	127.2	3.39
Linuron	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	<0.1 (LOQ)	-	0.0162	-	-
Glufosinate	µg/l	-	±	-	<0.1 (LOQ)	-	-	-	-
AMPA	µg/l	0.658	±	0.245	0.348	0.14	0.305	52.9	-1.01
Dimethylsulfamide	µg/l	0.415	±	0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.84	0.552	0.119	131.4	3.71
Diuron	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.962	0.289	0.132	130.8	1.71
Glyphosate	µg/l	0.477	±	0.0838	0.36	0.144	0.108	75.4	-1.09
Glufosinate	µg/l	0.172	±	0.0442	<0.1 (LOQ)	-	0.0442	-	-
AMPA	µg/l	-	±	-	<0.1 (LOQ)	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Bromacil
Diuron
Chloridazon
Isoproturon
Linuron
Glyphosate
AMPA
Measurand
3.711
3.393
-2
0
2
-2
0
2
z-score

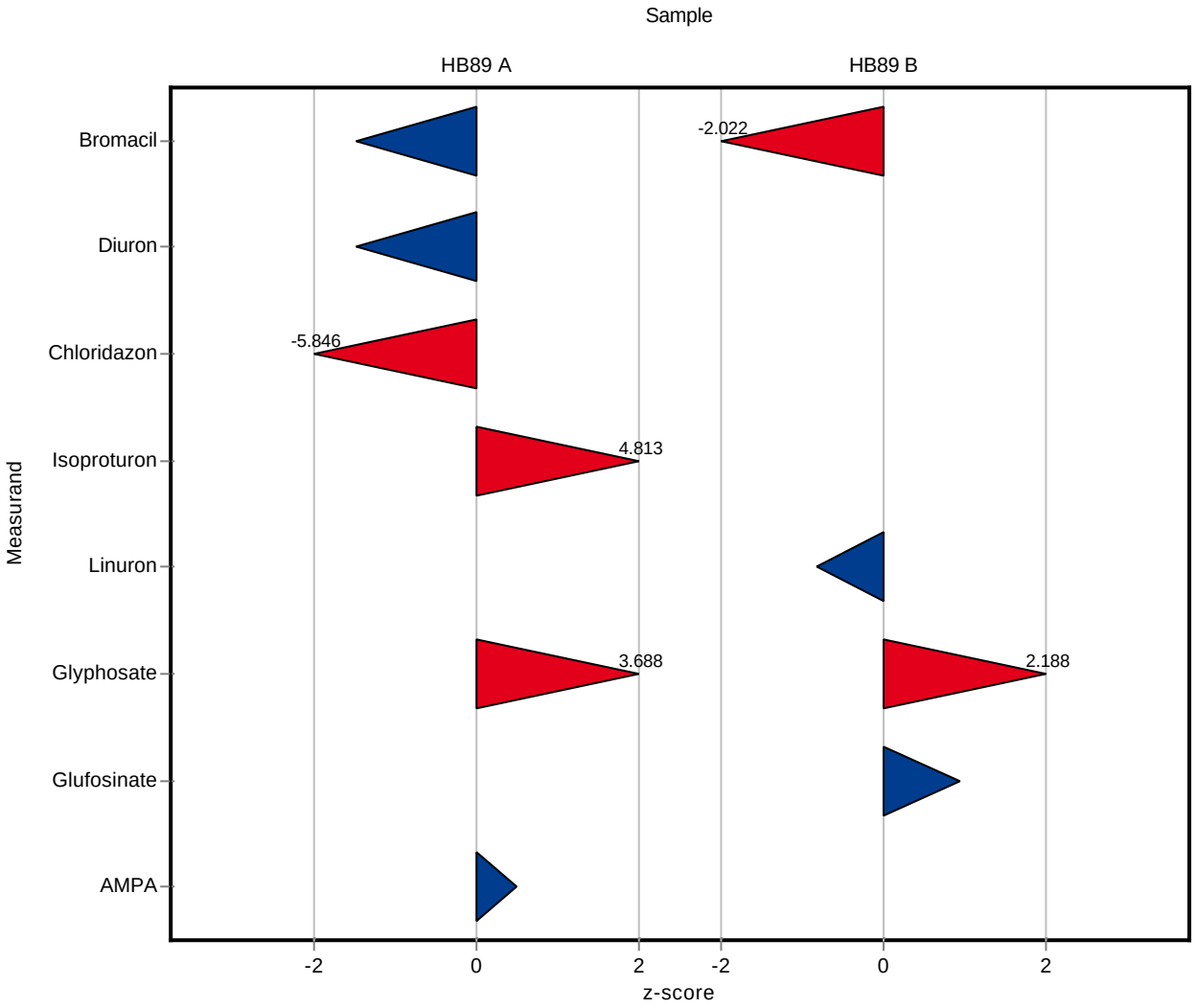
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	± 0.0926	0.738	0.148	0.123	80.1	-1.48
Diuron	µg/l	0.113	± 0.0159	0.078	0.016	0.0237	69.1	-1.47
Chloridazon	µg/l	0.503	± 0.033	0.254	0.051	0.0427	50.5	-5.85
Desphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Isoproturon	µg/l	0.246	± 0.0136	0.341	0.068	0.0197	138.5	4.81
Linuron	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	± 0.0147	0.193	0.04	0.0162	145.0	3.69
Glufosinate	µg/l	-	± -	<0.05 (LOQ)	-	-	-	-
AMPA	µg/l	0.658	± 0.245	0.81	0.16	0.305	123.1	0.50
Dimethylsulfamide	µg/l	0.415	± 0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	± 0.0951	1.16	0.23	0.119	82.9	-2.02
Diuron	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	± 0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	± 0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	± 0.0886	0.626	0.125	0.132	85.1	-0.83
Glyphosate	µg/l	0.477	± 0.0838	0.714	0.14	0.108	149.6	2.19
Glufosinate	µg/l	0.172	± 0.0442	0.213	0.04	0.0442	124.1	0.94
AMPA	µg/l	-	± -	<0.05 (LOQ)	-	-	-	-
Dimethylsulfamide	µg/l	0.344	± 0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Bromacil
Diuron
Chloridazon
Isoproturon
Linuron
Glyphosate
Glufosinate
AMPA
Measurand
-5.846
4.813
3.688
-2.022
2.188
-2
0
2
z-score

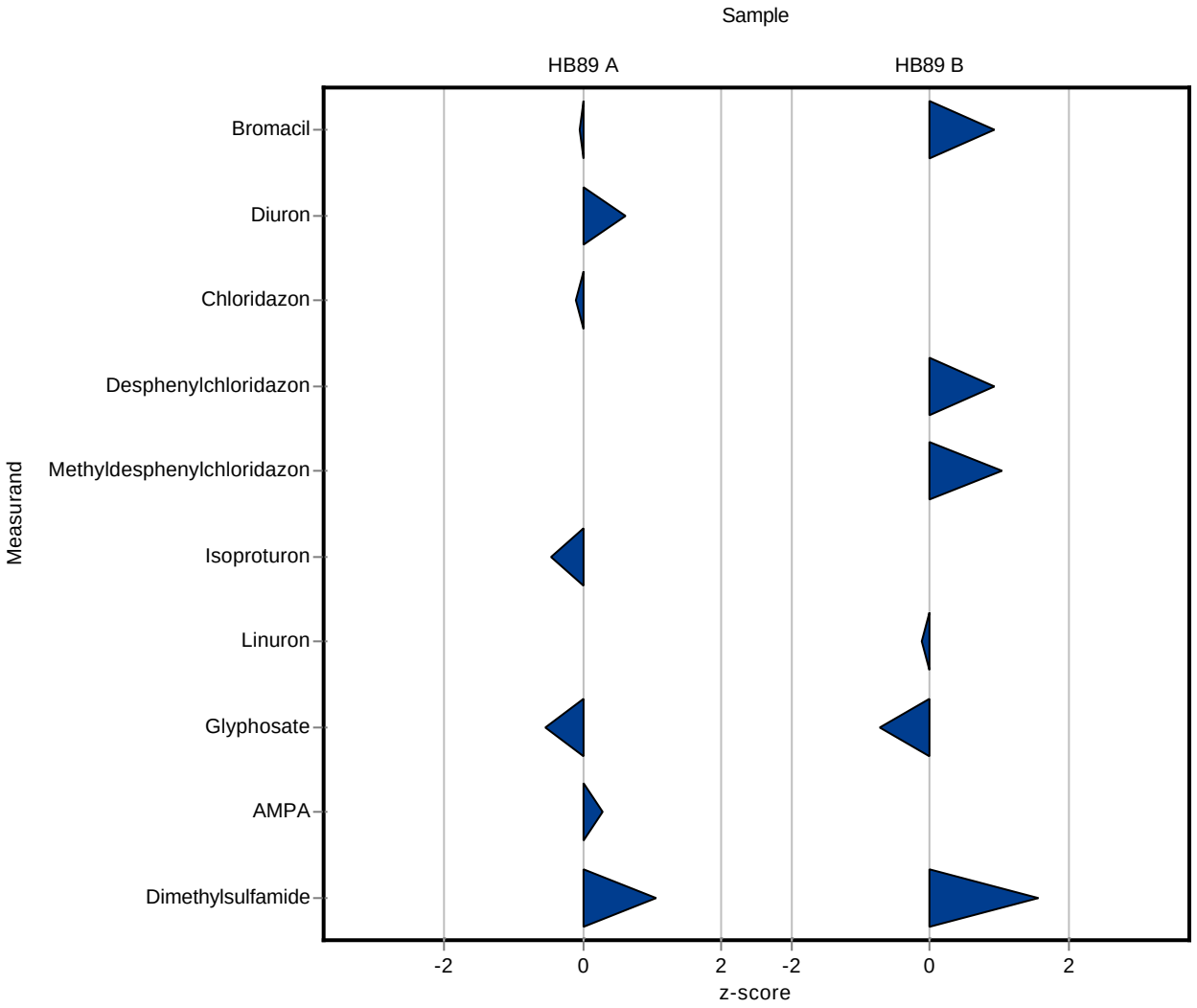
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	0.914	0.107	0.123	99.2	-0.06
Diuron	µg/l	0.113	±	0.0159	0.127	0.01	0.0237	112.6	0.60
Chloridazon	µg/l	0.503	±	0.033	0.499	0.041	0.0427	99.1	-0.10
Desphenylchloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.237	0.044	0.0197	96.3	-0.46
Linuron	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	0.124	0.02	0.0162	93.1	-0.56
Glufosinate	µg/l	-	±	-	-	-	-	-	-
AMPA	µg/l	0.658	±	0.245	0.742	0.047	0.305	112.8	0.28
Dimethylsulfamide	µg/l	0.415	±	0.0568	0.479	0.162	0.0599	115.3	1.06

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.51	0.16	0.119	107.9	0.93
Diuron	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	0.135	0.017	0.0256	122.0	0.95
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	0.149	0.009	0.0116	109.0	1.06
Isoproturon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.722	0.032	0.132	98.1	-0.10
Glyphosate	µg/l	0.477	±	0.0838	0.399	0.06	0.108	83.6	-0.72
Glufosinate	µg/l	0.172	±	0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	0.428	0.066	0.0532	124.3	1.57


Sample
HB89 A
HB89 B
Measurand
Bromacil
Diuron
Chloridazon
Desphenylchloridazon
Methyldesphenylchloridazon
Isoproturon
Linuron
Glyphosate
AMPA
Dimethylsulfamide
-2
0
2
-2
0
2
z-score

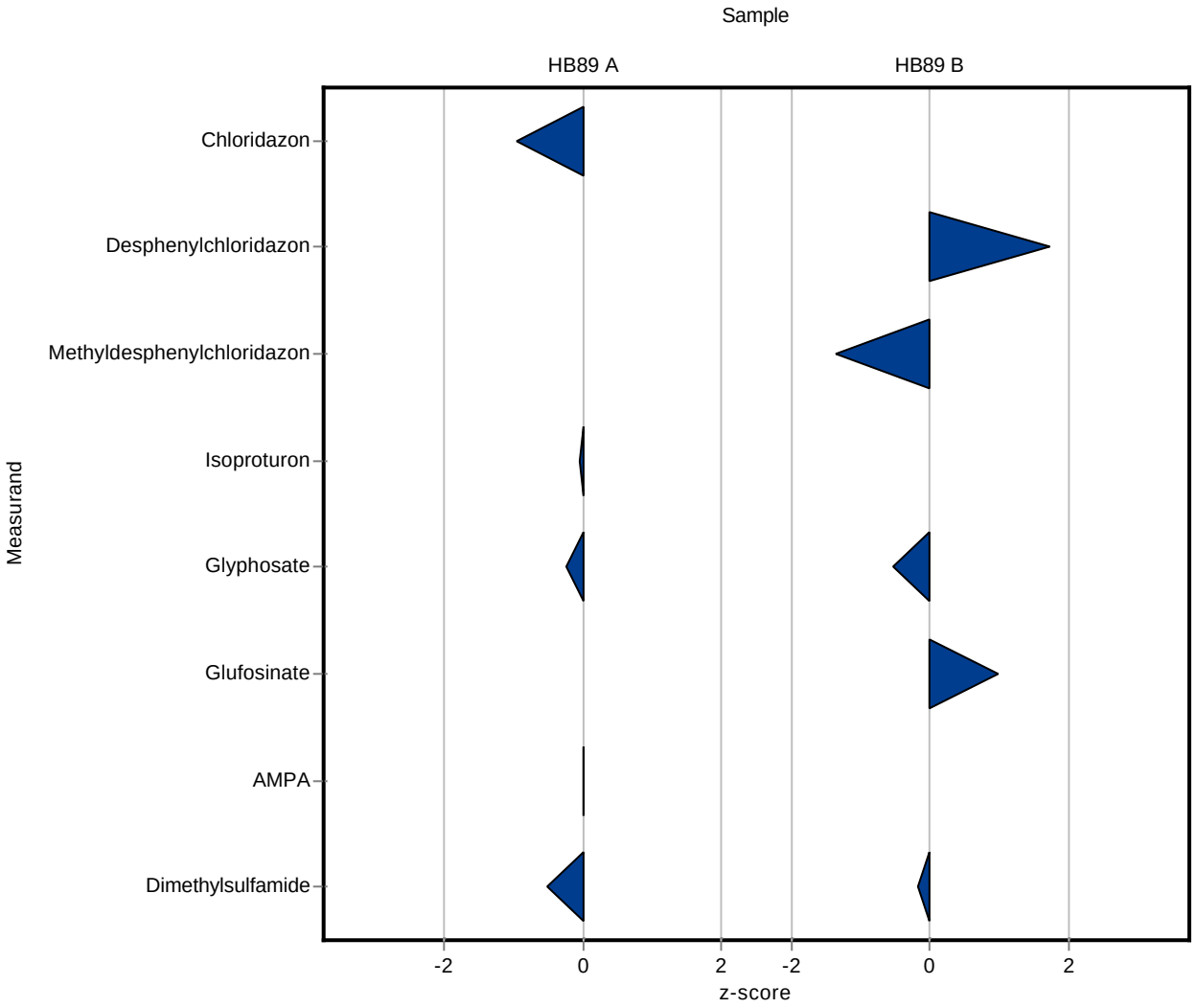
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	-	-	0.123	-	-
Diuron	µg/l	0.113	±	0.0159	-	-	0.0237	-	-
Chloridazon	µg/l	0.503	±	0.033	0.462	0.02	0.0427	91.8	-0.97
Desphenylchloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.245	0.02	0.0197	99.5	-0.06
Linuron	µg/l	-	±	-	-	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	0.129	0.02	0.0162	96.9	-0.25
Glufosinate	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
AMPA	µg/l	0.658	±	0.245	0.655	0.05	0.305	99.6	-0.01
Dimethylsulfamide	µg/l	0.415	±	0.0568	0.385	0.03	0.0599	92.7	-0.51

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	-	-	0.119	-	-
Diuron	µg/l	-	±	-	-	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	0.155	0.05	0.0256	140.0	1.73
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	0.121	0.02	0.0116	88.5	-1.35
Isoproturon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	-	-	0.132	-	-
Glyphosate	µg/l	0.477	±	0.0838	0.419	0.02	0.108	87.8	-0.54
Glufosinate	µg/l	0.172	±	0.0442	0.216	0.02	0.0442	125.9	1.00
AMPA	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	0.335	0.03	0.0532	97.3	-0.18


Sample
HB89 A
HB89 B
Chloridazon
Desphenylchloridazon
Methyldesphenylchloridazon
Isoproturon
Glyphosate
Glufosinate
AMPA
Dimethylsulfamide
Measurand
-2
0
2
-2
0
2
z-score

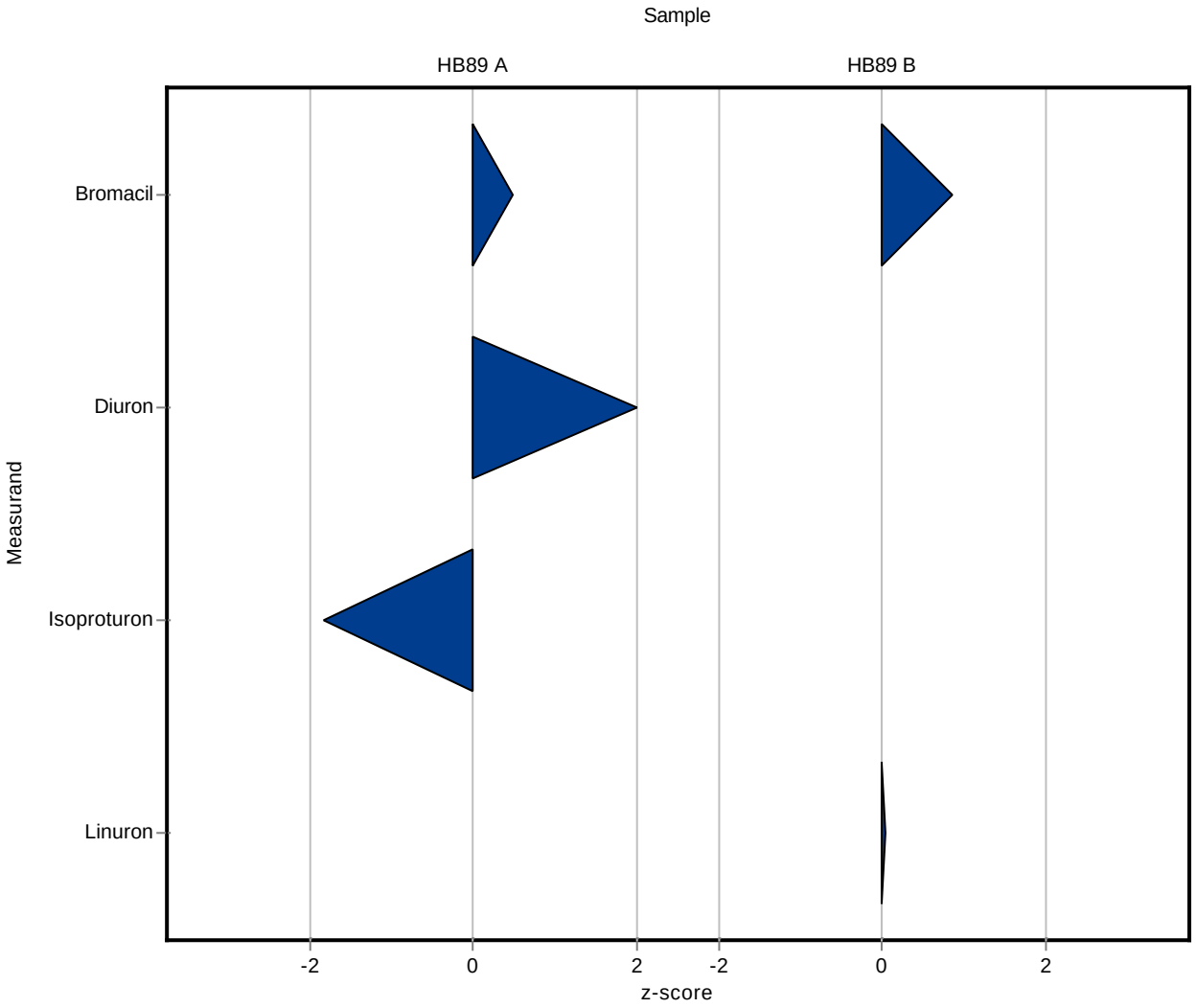
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	0.98	0.29	0.123	106.4	0.48
Diuron	µg/l	0.113	±	0.0159	0.16	0.024	0.0237	141.8	1.99
Chloridazon	µg/l	0.503	±	0.033	-	-	0.0427	-	-
Desphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.21	0.032	0.0197	85.3	-1.83
Linuron	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	-	-	0.0162	-	-
Glufosinate	µg/l	-	±	-	-	-	-	-	-
AMPA	µg/l	0.658	±	0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	±	0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.5	0.45	0.119	107.2	0.84
Diuron	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	-	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.74	0.11	0.132	100.6	0.03
Glyphosate	µg/l	0.477	±	0.0838	-	-	0.108	-	-
Glufosinate	µg/l	0.172	±	0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	±	-	-	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Bromacil
Diuron
Isoproturon
Linuron
Measurand
-2
0
2
-2
0
2
z-score

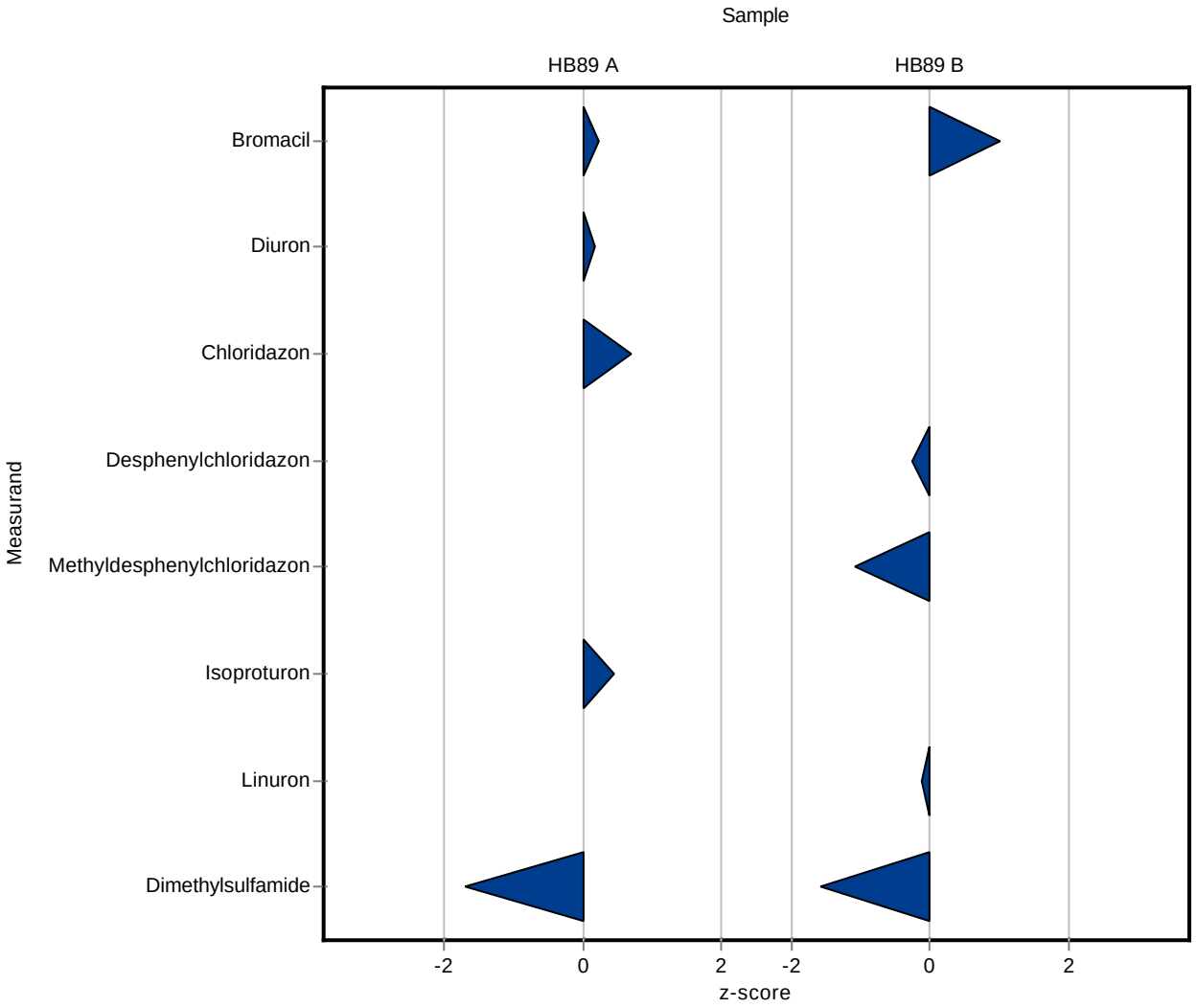
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	0.949	0.19	0.123	103.0	0.23
Diuron	µg/l	0.113	±	0.0159	0.117	0.023	0.0237	103.7	0.18
Chloridazon	µg/l	0.503	±	0.033	0.533	0.107	0.0427	105.9	0.69
Desphenylchloridazon	µg/l	-	±	-	<10 (LOQ)	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	<10 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.255	0.051	0.0197	103.6	0.45
Linuron	µg/l	-	±	-	<10 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	-	-	0.0162	-	-
Glufosinate	µg/l	-	±	-	-	-	-	-	-
AMPA	µg/l	0.658	±	0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	±	0.0568	0.313	0.063	0.0599	75.3	-1.71

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.521	0.304	0.119	108.7	1.02
Diuron	µg/l	-	±	-	<10 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<10 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	0.104	0.021	0.0256	94.0	-0.26
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	0.124	0.025	0.0116	90.7	-1.09
Isoproturon	µg/l	-	±	-	<10 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.719	0.144	0.132	97.7	-0.13
Glyphosate	µg/l	0.477	±	0.0838	-	-	0.108	-	-
Glufosinate	µg/l	0.172	±	0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	±	-	-	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	0.26	0.052	0.0532	75.5	-1.59


Sample
HB89 A
HB89 B
Bromacil
Diuron
Chloridazon
Desphenylchloridazon
Methyldesphenylchloridazon
Isoproturon
Linuron
Dimethylsulfamide
Measurand
-2
0
2
-2
0
2
z-score

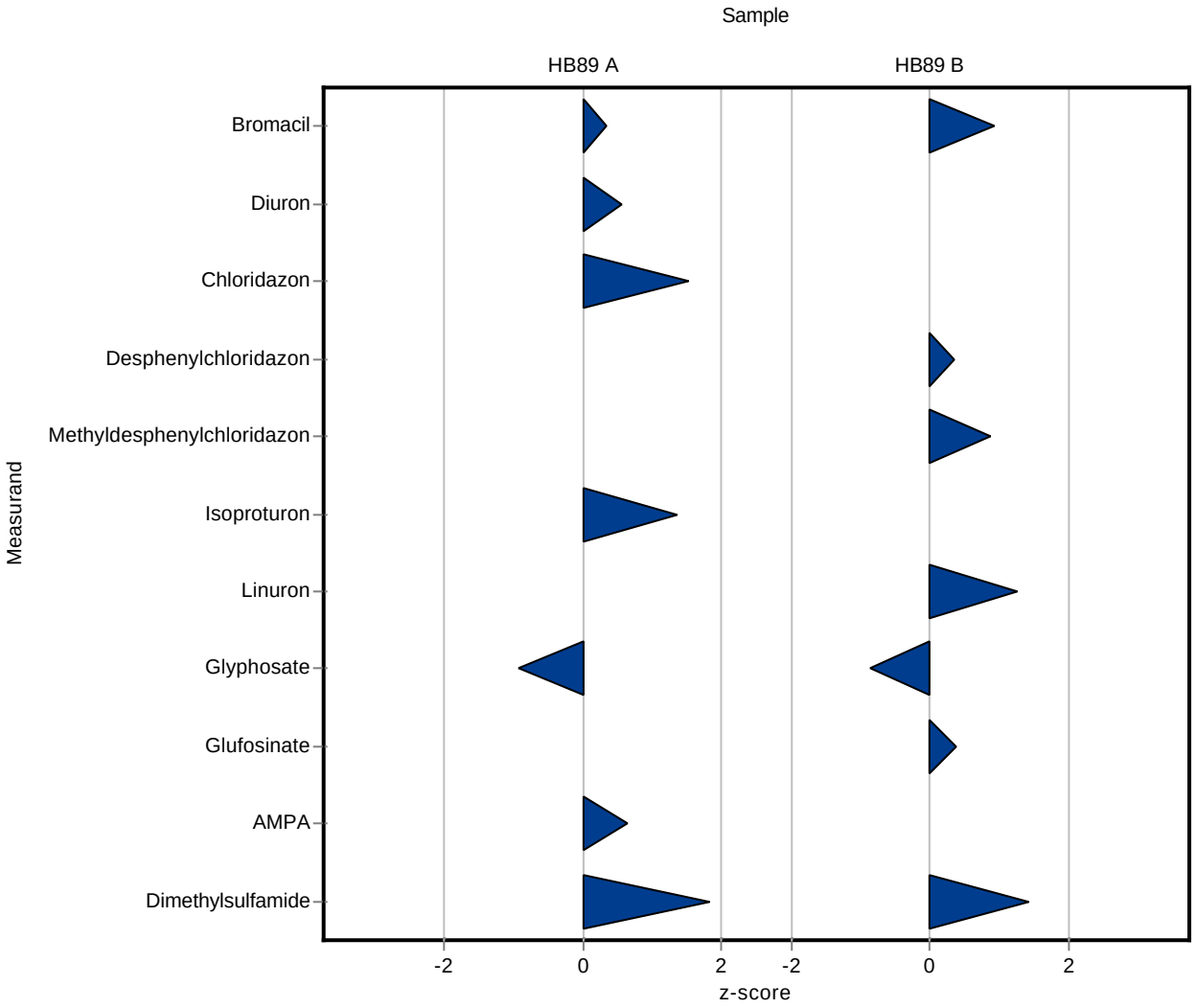
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	0.962	0.241	0.123	104.4	0.33
Diuron	µg/l	0.113	±	0.0159	0.126	0.031	0.0237	111.7	0.56
Chloridazon	µg/l	0.503	±	0.033	0.568	0.142	0.0427	112.8	1.51
Desphenylchloridazon	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.273	0.068	0.0197	110.9	1.36
Linuron	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	0.118	0.03	0.0162	88.6	-0.93
Glufosinate	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
AMPA	µg/l	0.658	±	0.245	0.855	0.214	0.305	129.9	0.65
Dimethylsulfamide	µg/l	0.415	±	0.0568	0.524	0.131	0.0599	126.1	1.81

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.51	0.376	0.119	107.9	0.93
Diuron	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	0.12	0.03	0.0256	108.4	0.36
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	0.147	0.037	0.0116	107.5	0.88
Isoproturon	µg/l	-	±	-	<0.02 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.903	0.226	0.132	122.7	1.27
Glyphosate	µg/l	0.477	±	0.0838	0.384	0.096	0.108	80.4	-0.86
Glufosinate	µg/l	0.172	±	0.0442	0.189	0.047	0.0442	110.1	0.39
AMPA	µg/l	-	±	-	0.029	0.007	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	0.421	0.105	0.0532	122.3	1.44


Sample
HB89 A
HB89 B
Bromacil
Diuron
Chloridazon
Desphenylchloridazon
Methyldesphenylchloridazon
Isoproturon
Linuron
Glyphosate
Glufosinate
AMPA
Dimethylsulfamide
Measurand
-2
0
2
-2
0
2
z-score

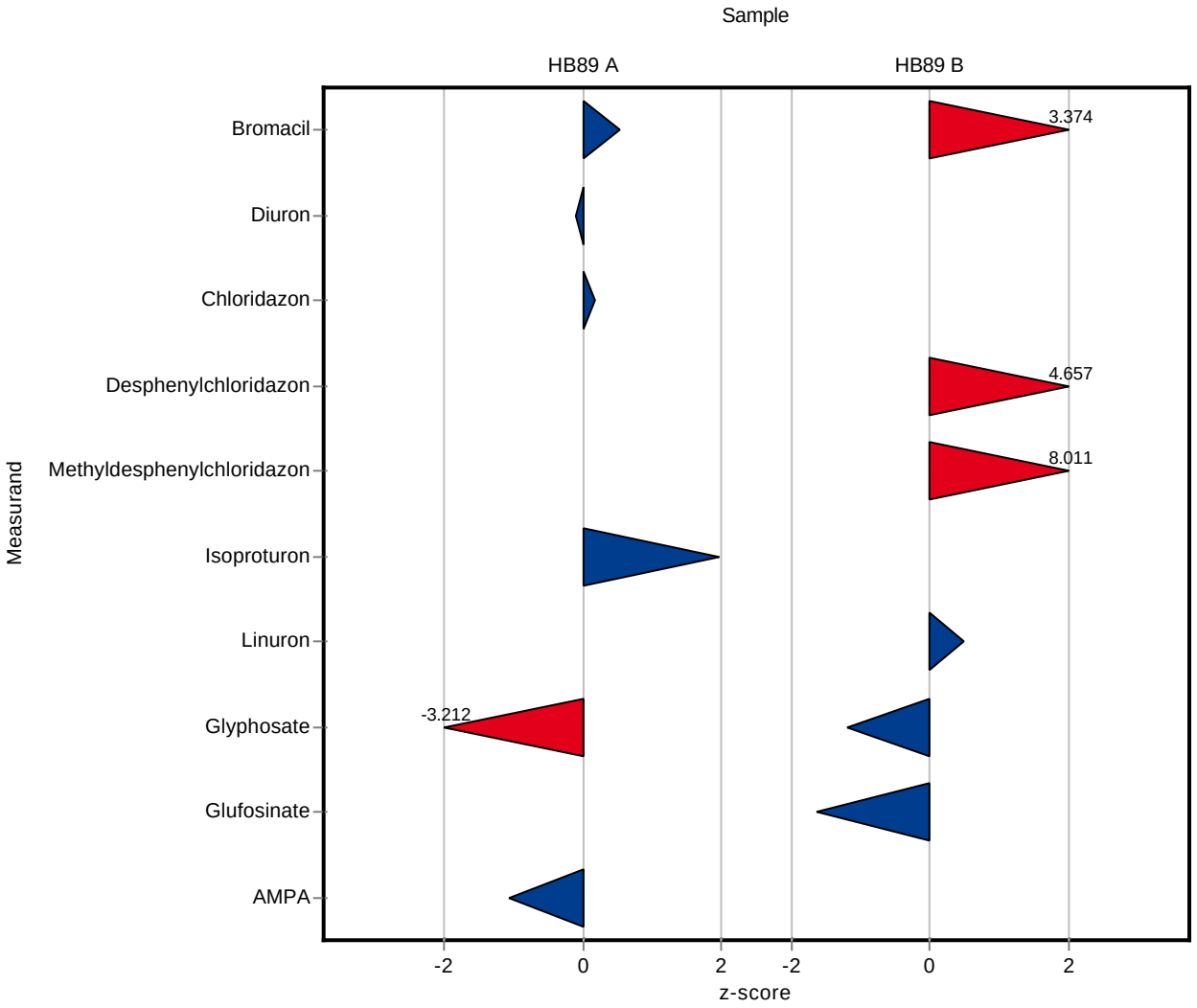
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	0.985	0.15	0.123	106.9	0.52
Diuron	µg/l	0.113	±	0.0159	0.11	0.02	0.0237	97.5	-0.12
Chloridazon	µg/l	0.503	±	0.033	0.51	0.1	0.0427	101.3	0.16
Desphenylchloridazon	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.285	0.06	0.0197	115.8	1.97
Linuron	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	0.081	0.01	0.0162	60.8	-3.21
Glufosinate	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
AMPA	µg/l	0.658	±	0.245	0.33	0.066	0.305	50.2	-1.07
Dimethylsulfamide	µg/l	0.415	±	0.0568	<0.01 (LOQ)	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.8	0.19	0.119	128.6	3.37
Diuron	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	0.23	0.04	0.0256	207.8	4.66
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	0.23	0.04	0.0116	168.3	8.01
Isoproturon	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.8	0.14	0.132	108.7	0.49
Glyphosate	µg/l	0.477	±	0.0838	0.35	0.07	0.108	73.3	-1.18
Glufosinate	µg/l	0.172	±	0.0442	0.1	0.02	0.0442	58.3	-1.62
AMPA	µg/l	-	±	-	<0.01 (LOQ)	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	<0.01 (LOQ)	-	0.0532	-	-


Sample
HB89 A
HB89 B
Measurand
Bromacil
Diuron
Chloridazon
Desphenylchloridazon
Methyldesphenylchloridazon
Isoproturon
Linuron
Glyphosate
Glufosinate
AMPA
3.374
4.657
8.011
-3.212
-2
0
2
-2
0
2
z-score

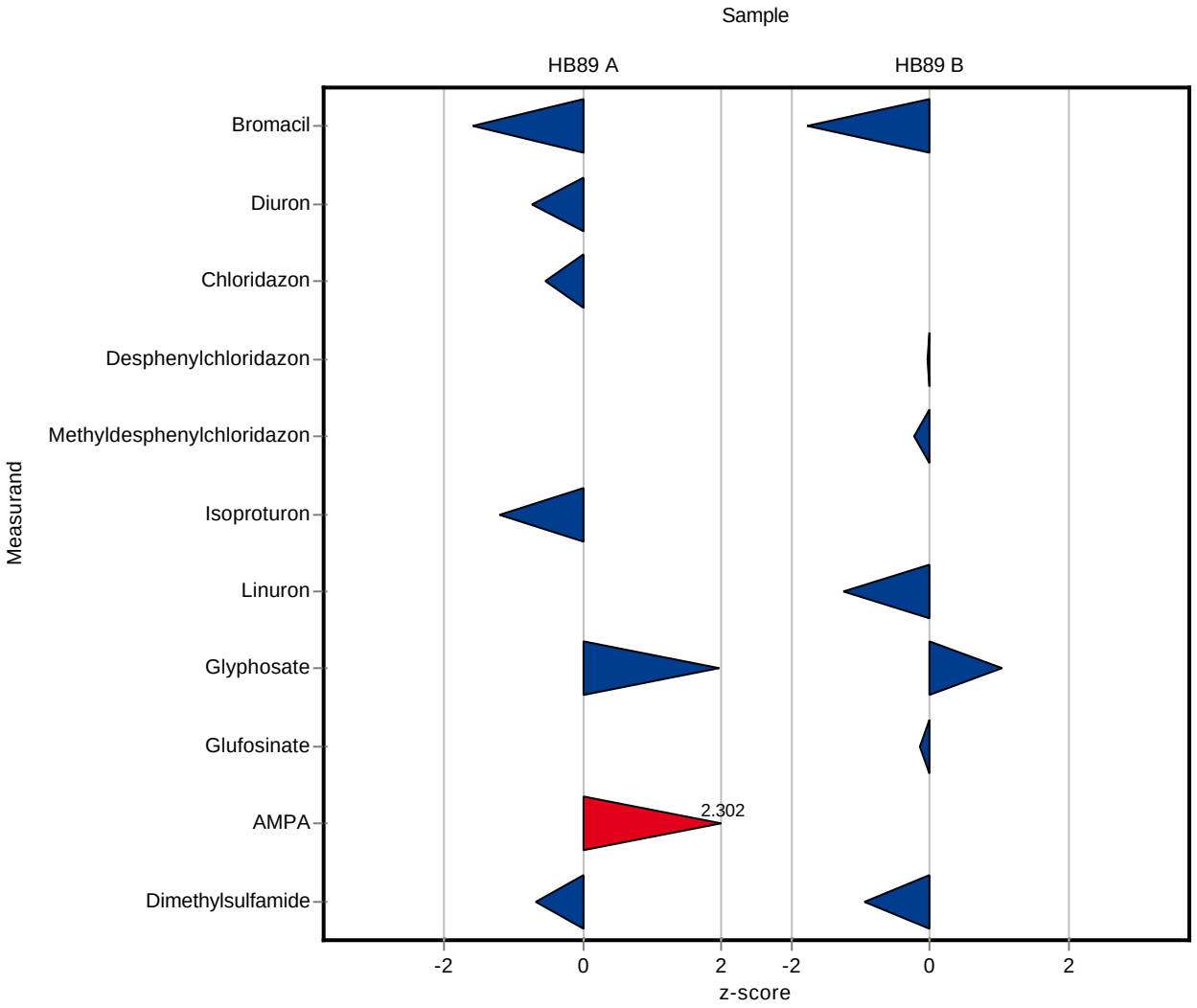
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	0.724	0.11	0.123	78.6	-1.60
Diuron	µg/l	0.113	±	0.0159	0.095	0.01	0.0237	84.2	-0.75
Chloridazon	µg/l	0.503	±	0.033	0.48	0.07	0.0427	95.4	-0.55
Desphenylchloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	0.222	0.03	0.0197	90.2	-1.22
Linuron	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	0.165	0.03	0.0162	123.9	1.96
Glufosinate	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
AMPA	µg/l	0.658	±	0.245	1.361	0.2	0.305	206.9	2.30
Dimethylsulfamide	µg/l	0.415	±	0.0568	0.375	0.06	0.0599	90.3	-0.68

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	1.19	0.18	0.119	85.0	-1.77
Diuron	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	0.11	0.02	0.0256	99.4	-0.03
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	0.134	0.02	0.0116	98.0	-0.23
Isoproturon	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	0.571	0.09	0.132	77.6	-1.25
Glyphosate	µg/l	0.477	±	0.0838	0.589	0.09	0.108	123.4	1.03
Glufosinate	µg/l	0.172	±	0.0442	0.165	0.03	0.0442	96.1	-0.15
AMPA	µg/l	-	±	-	<0.05 (LOQ)	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	0.295	0.04	0.0532	85.7	-0.93


Sample
HB89 A
HB89 B
Measurand
Bromacil
Diuron
Chloridazon
Desphenylchloridazon
Methyldesphenylchloridazon
Isoproturon
Linuron
Glyphosate
Glufosinate
AMPA
Dimethylsulfamide
2.302
-2
0
2
-2
0
2
z-score

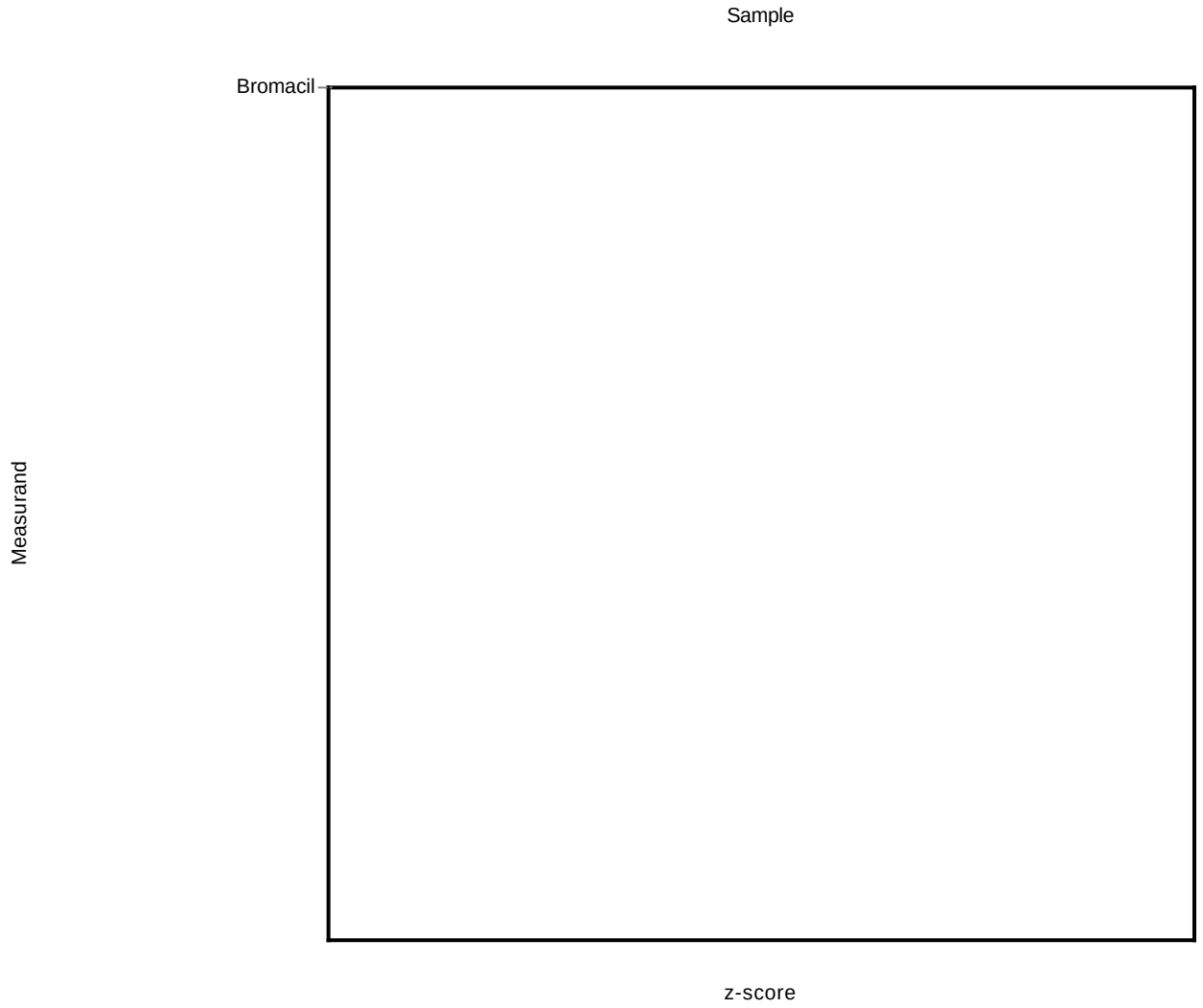
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	±	0.0926	-	-	0.123	-	-
Diuron	µg/l	0.113	±	0.0159	-	-	0.0237	-	-
Chloridazon	µg/l	0.503	±	0.033	-	-	0.0427	-	-
Desphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	±	-	-	-	-	-	-
Isoproturon	µg/l	0.246	±	0.0136	-	-	0.0197	-	-
Linuron	µg/l	-	±	-	-	-	-	-	-
Glyphosate	µg/l	0.133	±	0.0147	<1.8 (LOQ)	-	0.0162	-	-
Glufosinate	µg/l	-	±	-	-	-	-	-	-
AMPA	µg/l	0.658	±	0.245	<1.8 (LOQ)	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	±	0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	±	0.0951	-	-	0.119	-	-
Diuron	µg/l	-	±	-	-	-	-	-	-
Chloridazon	µg/l	-	±	-	-	-	-	-	-
Desphenylchloridazon	µg/l	0.111	±	0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	±	0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	±	-	-	-	-	-	-
Linuron	µg/l	0.736	±	0.0886	-	-	0.132	-	-
Glyphosate	µg/l	0.477	±	0.0838	<1.8 (LOQ)	-	0.108	-	-
Glufosinate	µg/l	0.172	±	0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	±	-	<1.8 (LOQ)	-	-	-	-
Dimethylsulfamide	µg/l	0.344	±	0.0504	-	-	0.0532	-	-


Sample
Bromacil
Measurand
z-score

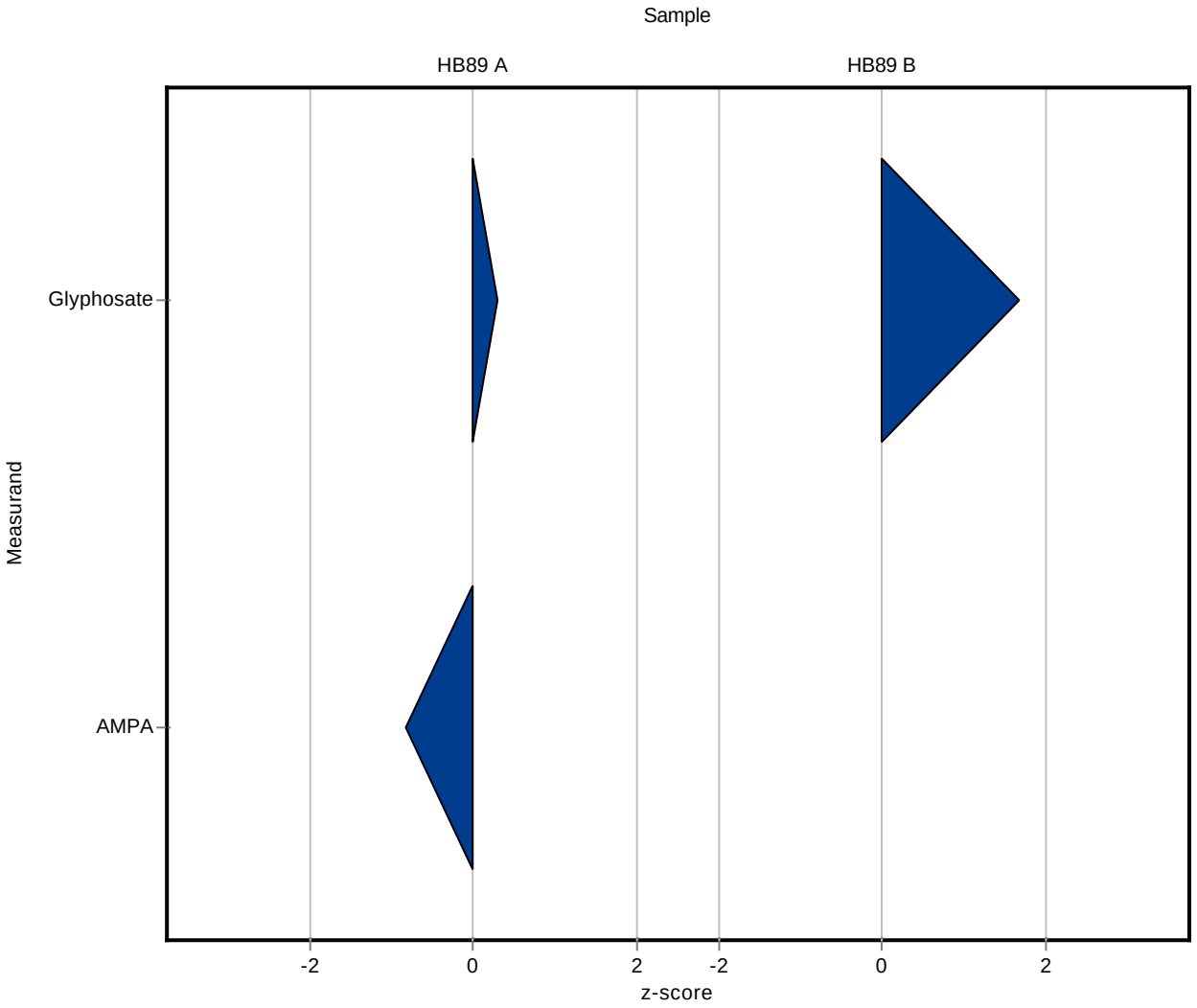
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	± 0.0926	-	-	0.123	-	-
Diuron	µg/l	0.113	± 0.0159	-	-	0.0237	-	-
Chloridazon	µg/l	0.503	± 0.033	-	-	0.0427	-	-
Desphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Isoproturon	µg/l	0.246	± 0.0136	-	-	0.0197	-	-
Linuron	µg/l	-	± -	-	-	-	-	-
Glyphosate	µg/l	0.133	± 0.0147	0.138	0.0227	0.0162	103.7	0.30
Glufosinate	µg/l	-	± -	-	-	-	-	-
AMPA	µg/l	0.658	± 0.245	0.408	0.0618	0.305	62.0	-0.82
Dimethylsulfamide	µg/l	0.415	± 0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	± 0.0951	-	-	0.119	-	-
Diuron	µg/l	-	± -	-	-	-	-	-
Chloridazon	µg/l	-	± -	-	-	-	-	-
Desphenylchloridazon	µg/l	0.111	± 0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	± 0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	± -	-	-	-	-	-
Linuron	µg/l	0.736	± 0.0886	-	-	0.132	-	-
Glyphosate	µg/l	0.477	± 0.0838	0.658	0.0866	0.108	137.8	1.67
Glufosinate	µg/l	0.172	± 0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	± -	0.024	0.004	-	-	-
Dimethylsulfamide	µg/l	0.344	± 0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Glyphosate
AMPA
Measurand
-2
0
2
-2
0
2
z-score

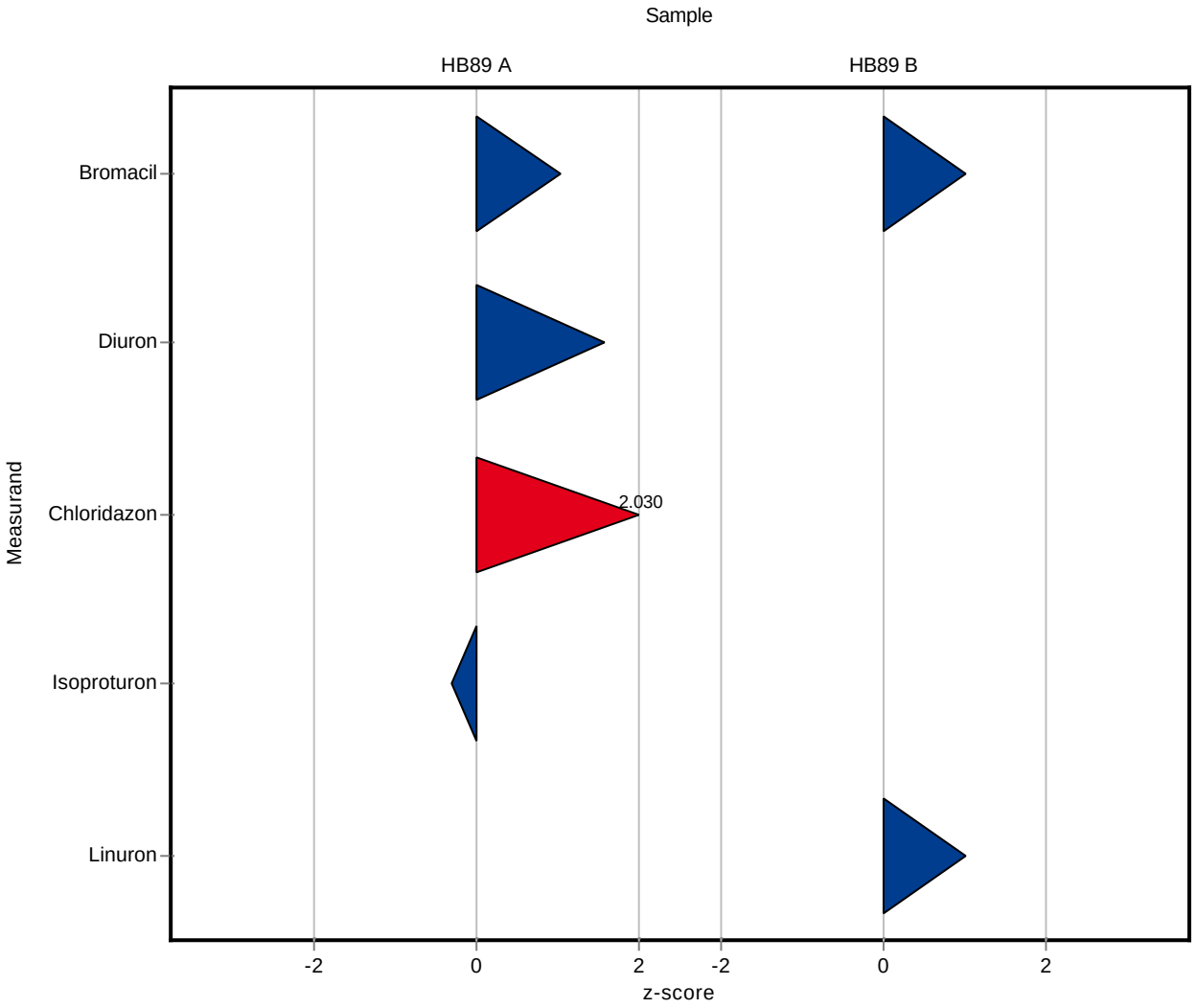
The following results were achieved:

Sample: HB89A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	0.921	± 0.0926	1.05	0.53	0.123	114.0	1.04
Diuron	µg/l	0.113	± 0.0159	0.15	0.075	0.0237	133.0	1.57
Chloridazon	µg/l	0.503	± 0.033	0.59	0.3	0.0427	117.2	2.03
Desphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Methyldesphenylchloridazon	µg/l	-	± -	-	-	-	-	-
Isoproturon	µg/l	0.246	± 0.0136	0.24	0.12	0.0197	97.5	-0.31
Linuron	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Glyphosate	µg/l	0.133	± 0.0147	-	-	0.0162	-	-
Glufosinate	µg/l	-	± -	-	-	-	-	-
AMPA	µg/l	0.658	± 0.245	-	-	0.305	-	-
Dimethylsulfamide	µg/l	0.415	± 0.0568	-	-	0.0599	-	-

Sample: HB89B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Bromacil	µg/l	1.4	± 0.0951	1.52	0.75	0.119	108.6	1.01
Diuron	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Chloridazon	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Desphenylchloridazon	µg/l	0.111	± 0.0232	-	-	0.0256	-	-
Methyldesphenylchloridazon	µg/l	0.137	± 0.0101	-	-	0.0116	-	-
Isoproturon	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Linuron	µg/l	0.736	± 0.0886	0.87	0.44	0.132	118.3	1.02
Glyphosate	µg/l	0.477	± 0.0838	-	-	0.108	-	-
Glufosinate	µg/l	0.172	± 0.0442	-	-	0.0442	-	-
AMPA	µg/l	-	± -	-	-	-	-	-
Dimethylsulfamide	µg/l	0.344	± 0.0504	-	-	0.0532	-	-


Sample
HB89 A
HB89 B
Bromacil
Diuron
Chloridazon
Isoproturon
Linuron
Measurand
2.030
-2
0
2
-2
0
2
z-score