

INTERLABORATORY COMPARISON EVALUATION

Polycyclic aromatic hydrocarbons – P15

Sample dispatch on 22nd April 2014

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1 Interlaboratory comparison P15

1.1 Participants and time schedule

- Number of registrations: 20
- Number of submitted data records: 18
- Dispatch of samples: 22nd April 2014
- Closing date for submission of data: 20th May 2014

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

1.2 Sampling, sample material and distribution

One synthetic water and one groundwater was selected as sample material. The sampling of the groundwater was carried out on 21st April 2014. The sample was stored at < 4 °C until further processing. Both samples were partly spiked with specific substances. The samples were filled into bottles with continuous stirring. The homogeneous mixtures were dispatched on 22nd April 2014. Each participant received:

- 2 samples, each sample filled in 2 x 1000 ml glass bottles.

1.3 Check analysis

While filling the bottles, aliquots of each sample were collected at random moments for check analysis. Testing was performed 2 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 $\pm U$. 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 20th May 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:

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

In this context,

- x_i is the measurement value of the participating laboratory.
- \bar{X} is the adjusted average value (i.e. after removal of outliers) of the participants' results.
- 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 Explanatory 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 outliers ± 99% confidence interval*
 Minimum – Maximum *Minimum and maximum of all submitted results, after removal of outliers*
 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:

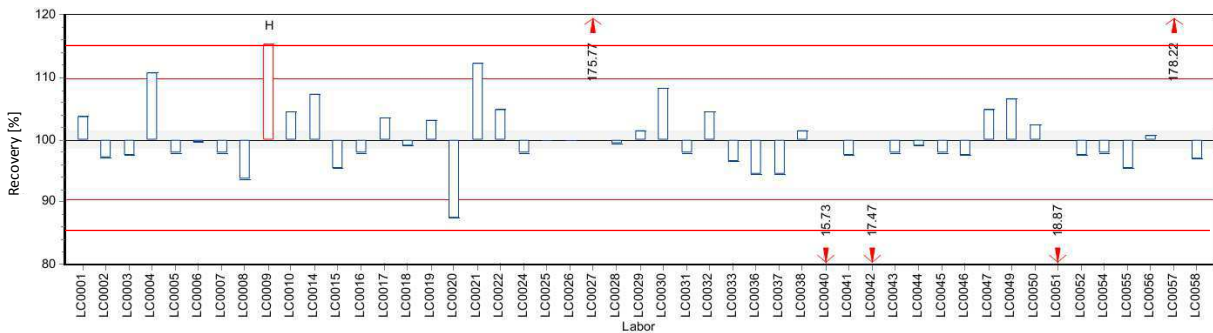
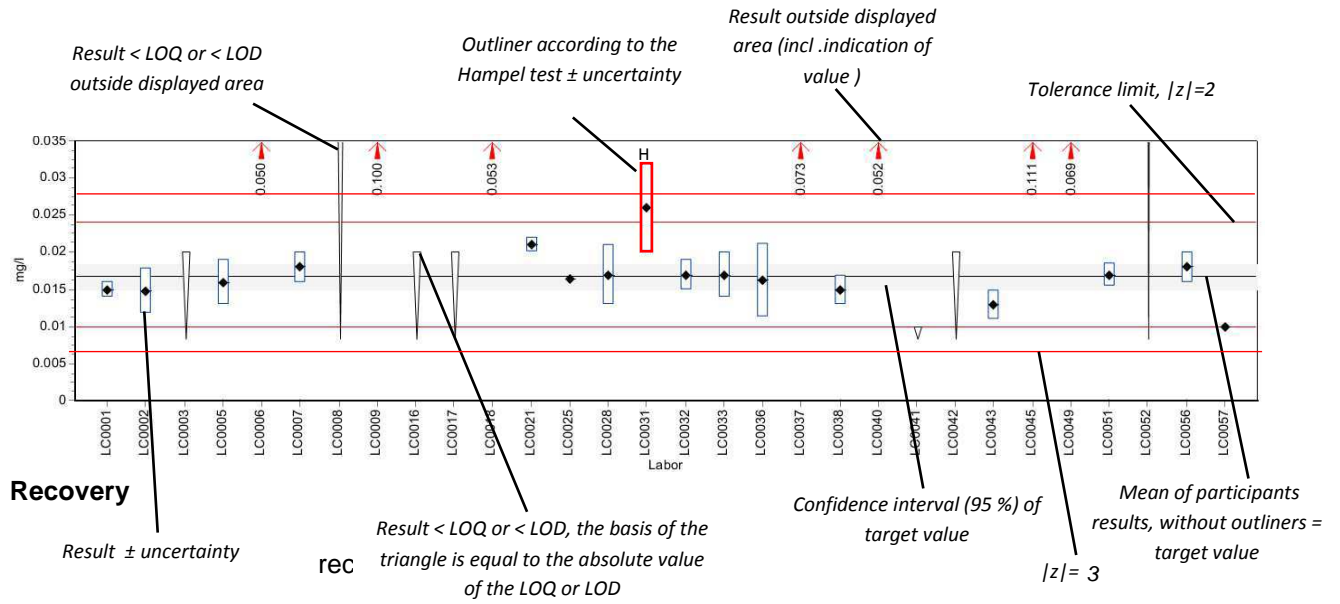
± U Results uncertainty as indicated by participant
 - *No data available*

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 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 LOQs by more than 100 %.

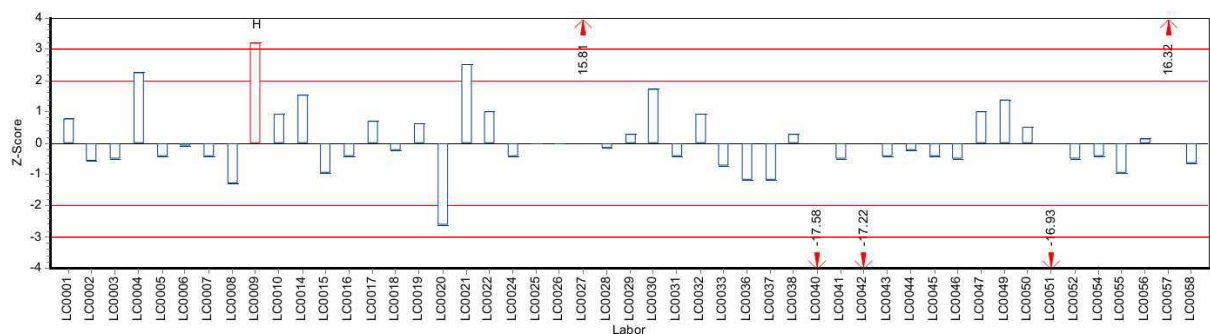
Graphical presentation of results

Results



z-Score

Presentation of results as z-scores.



Summary of results, after removal of outliers: Polycyclic Aromatic Hydrocarbons - P15

6 Summary of results, after removal of outliers

Parameter	Sample	Unit	Number of results for calculation	Number of outliers	Mean	± CI (99%)	Minimum	Maximum	SD	RSD
Acenaphthene	P15 A	ng/l	15	0	50.2	± 7.38	37	66.9	9.53	19
	P15 B	ng/l	14	1	134	± 18.3	97	185	22.8	17
Acenaphthylene	P15 A	ng/l	13	0	84.2	± 18.1	46.3	133	21.8	25.9
	P15 B	ng/l	3	0	-	± -	7.61	16	-	-
Anthracene	P15 A	ng/l	1	0	-	± -	2.3	2.3	-	-
	P15 B	ng/l	0	0	-	± -	-	-	-	-
Benzo[a]anthracene	P15 A	ng/l	14	0	105	± 30.7	39.9	159	38.3	36.4
	P15 B	ng/l	14	0	31.2	± 7.46	11.7	42.32	9.3	29.8
Benzo[a]pyrene	P15 A	ng/l	14	0	33.3	± 11.9	11.8	63	14.8	44.4
	P15 B	ng/l	10	0	6.77	± 3.27	2	14.2	3.45	51
Benzo[b]fluoranthene	P15 A	ng/l	0	0	-	± -	-	-	-	-
	P15 B	ng/l	0	0	-	± -	-	-	-	-
Benzo[g,h,i]perylene	P15 A	ng/l	2	0	-	± -	21	41	-	-
	P15 B	ng/l	1	0	-	± -	5	5	-	-
Benzo[k]fluoranthene	P15 A	ng/l	16	0	125	± 27.3	44	189	36.5	29.1
	P15 B	ng/l	9	0	7.69	± 2.76	4	12.1	2.76	35.9
Chrysene	P15 A	ng/l	13	2	109	± 16	72.1	140	19.3	17.7
	P15 B	ng/l	4	0	-	± -	2	4.5	-	-
Dibenzo[a,h]anthracene	P15 A	ng/l	12	2	119	± 22.5	76	168	26	21.8
	P15 B	ng/l	12	0	21	± 4.87	12.1	30	5.62	26.8
Fluoranthene	P15 A	ng/l	15	1	55.4	± 6.72	42.4	73	8.68	15.7
	P15 B	ng/l	7	0	6.21	± 1.45	4.4	7.8	1.28	20.6
Fluorene	P15 A	ng/l	15	0	174	± 26.3	124	233	33.9	19.4
	P15 B	ng/l	15	0	61.7	± 8.74	44.8	85	11.3	18.3
Indeno[1,2,3-cd]pyrene	P15 A	ng/l	13	1	57.4	± 11.8	31.3	82	14.2	24.7
	P15 B	ng/l	10	0	13.8	± 4.23	5	20.4	4.46	32.4
Naphthalene	P15 A	ng/l	14	1	63.5	± 12.7	39	101	15.9	25

Summary of results, after removal of outliers: Polycyclic Aromatic Hydrocarbons - P15

Parameter	Sample	Unit	Number of results for calculation	Number of outliers	Mean	± CI (99%)	Minimum	Maximum	SD	RSD
Naphthalene	P15 B	ng/l	13	1	92	± 22.4	33.4	138	26.9	29.3
Phenanthrene	P15 A	ng/l	12	1	95.7	± 11.1	70.1	115	12.8	13.4
	P15 B	ng/l	10	1	17.5	± 5.04	11.6	28.4	5.31	30.4
Pyrene	P15 A	ng/l	0	0	-	± -	-	-	-	-
	P15 B	ng/l	0	0	-	± -	-	-	-	-

7 Parameter oriented report

Acenaphthene.....	11
Acenaphthylene.....	19
Anthracene.....	25
Benzo(a)anthracene.....	29
Benzo(a)pyrene.....	37
Benzo(b)fluoranthene.....	45
Benzo(g,h,i)perylene.....	49
Benzo(k)fluoranthene.....	53
Chrysene.....	61
Dibenzo(a,h)anthracene.....	67
Fluoranthene.....	75
Fluorene.....	83
Indeno(1,2,3-c,d)pyrene.....	91
Naphthaline.....	99
Phenanthrene.....	107
Pyrene.....	115

Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15A, Parameter: Acenaphthene

Parameter oriented report

P15 A

Acenaphthene

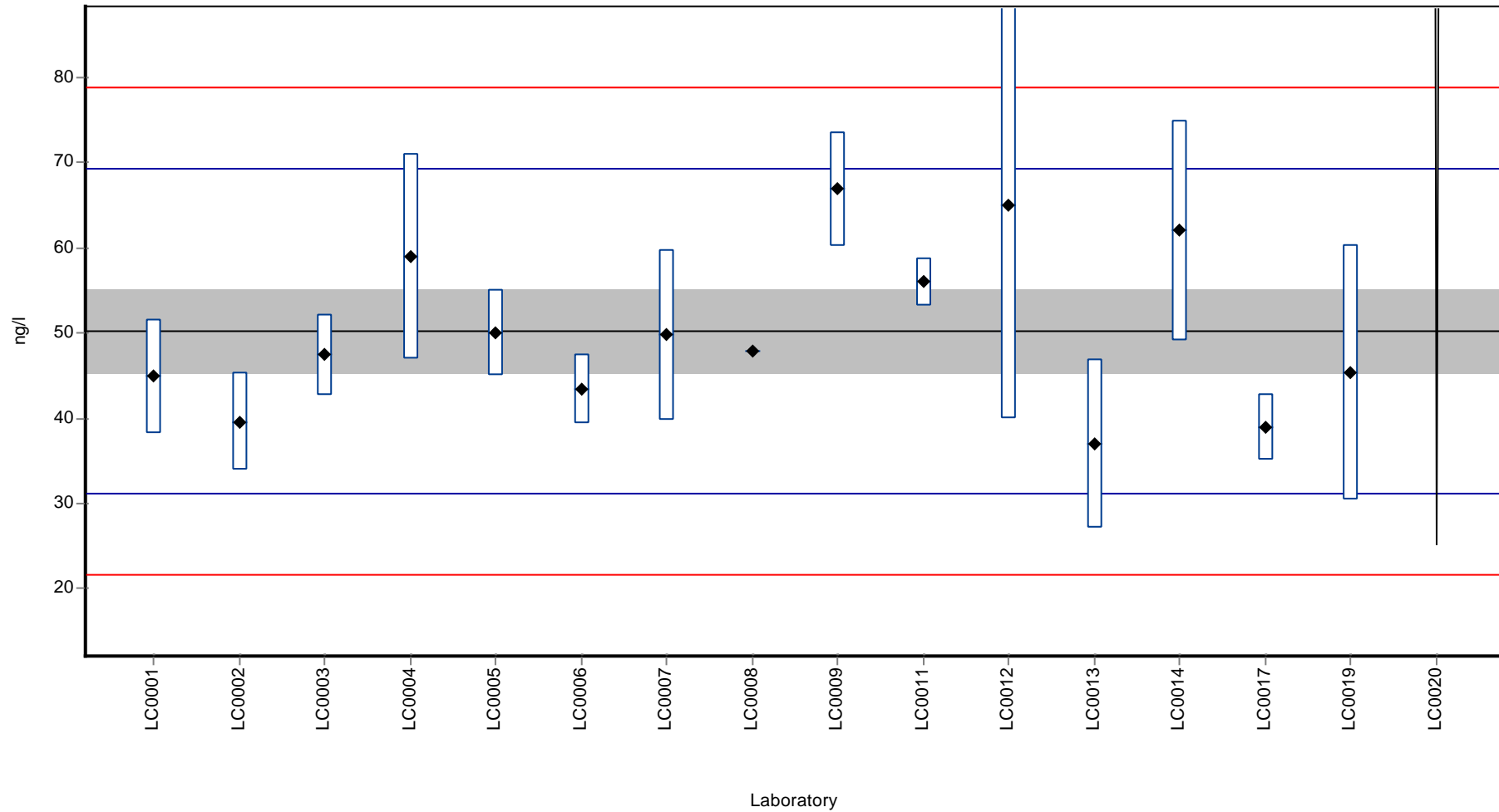
Unit	ng/l
Mean ± CI (99%)	50.2 ± 7.38
Minimum - Maximum	37 - 66.9
Check value ± U	46 ± 3.6

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	44.900	6.700	89.4	-0.6	
LC0002	39.600	5.800	78.9	-1.1	
LC0003	47.400	4.700	94.4	-0.3	
LC0004	59.000	12.000	117.5	0.9	
LC0005	50.000	5.000	99.6	0.0	
LC0006	43.400	4.000	86.4	-0.7	
LC0007	49.800	10.000	99.2	0.0	
LC0008	47.910	0.0006	95.4	-0.2	
LC0009	66.900	6.690	133.2	1.8	
LC0010	-	-	-	-	
LC0011	56.000	2.800	111.5	0.6	
LC0012	65.000	25.000	129.4	1.6	
LC0013	37.000	10.000	73.7	-1.4	
LC0014	62.000	13.000	123.5	1.2	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	39.000	3.900	77.7	-1.2	
LC0018	-	-	-	-	
LC0019	45.300	15.000	90.2	-0.5	
LC0020	< 200 (LOQ)	-	-	-	

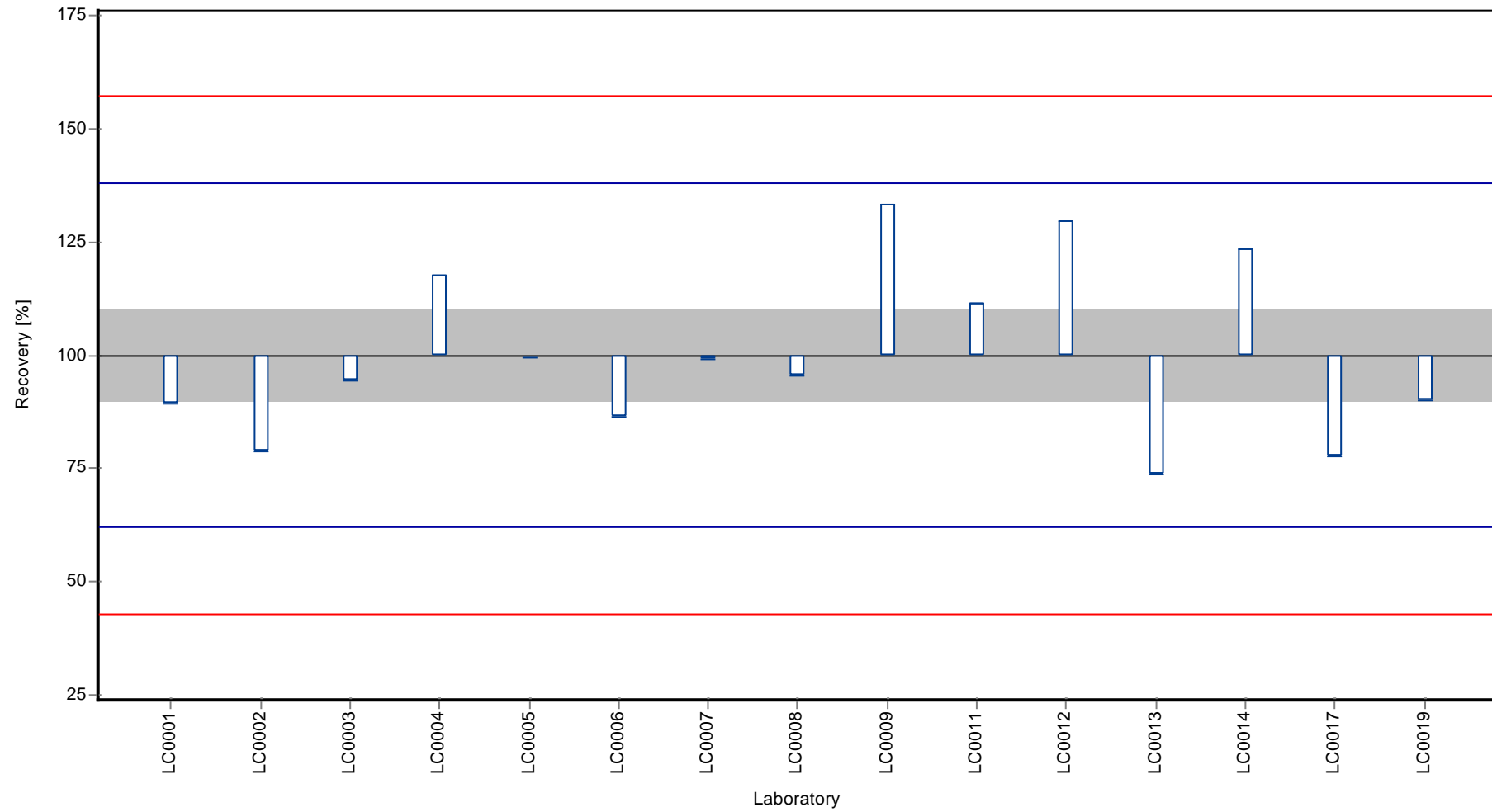
Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	50.2 ± 7.38	50.2 ± 7.38	ng/l
Minimum	37	37	ng/l
Maximum	66.9	66.9	ng/l
Standard deviation	9.53	9.53	ng/l
rel. Standard deviation	19	19	%
n	15	15	-

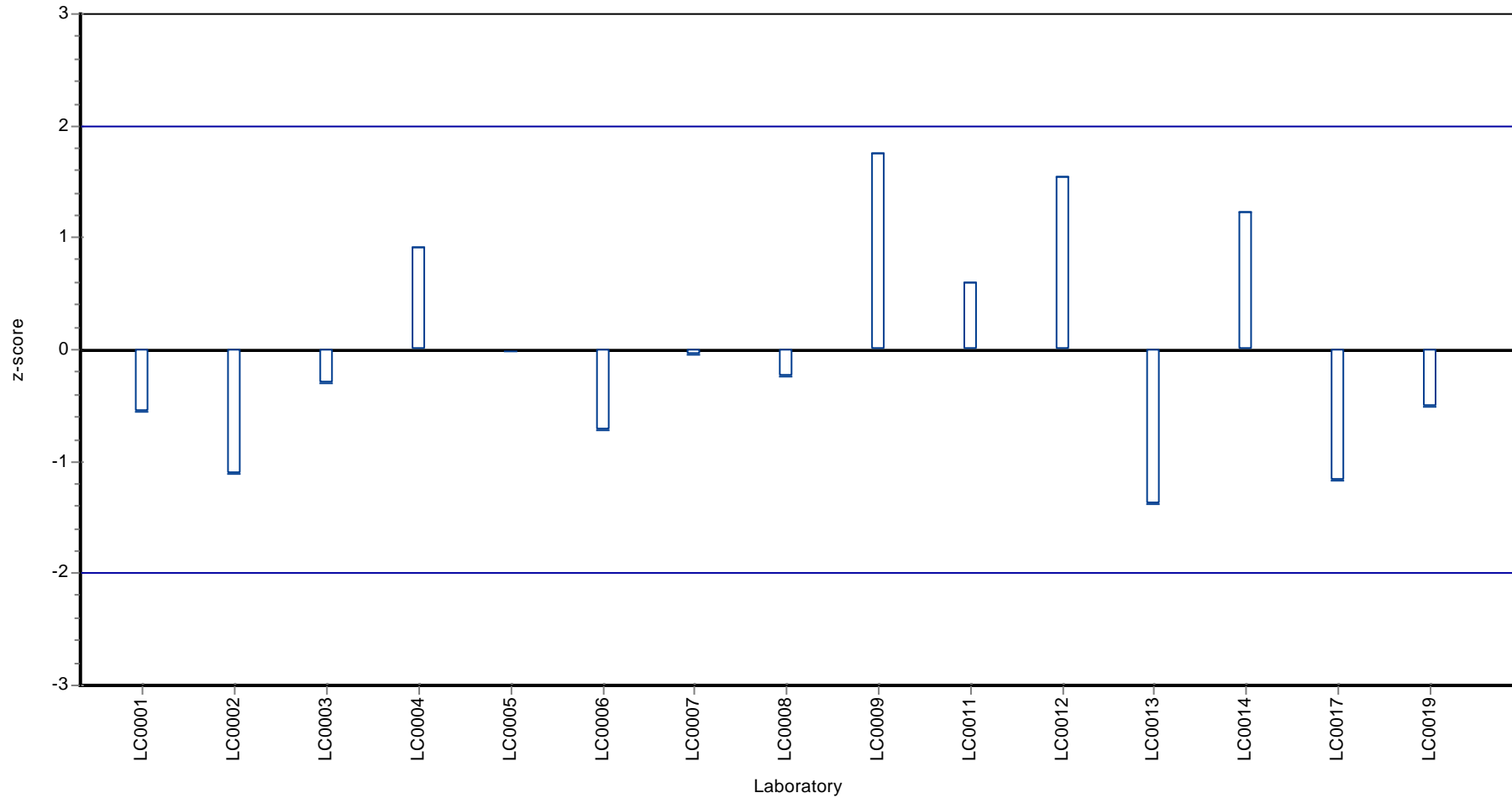
Graphical presentation of results
Results



Recovery rate



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15B, Parameter: Acenaphthene

Parameter oriented report

P15 B

Acenaphthene

Unit	ng/l
Mean ± CI (99%)	134 ± 18.3
Minimum - Maximum	97 - 185
Check value ± U	120 ± 8.9

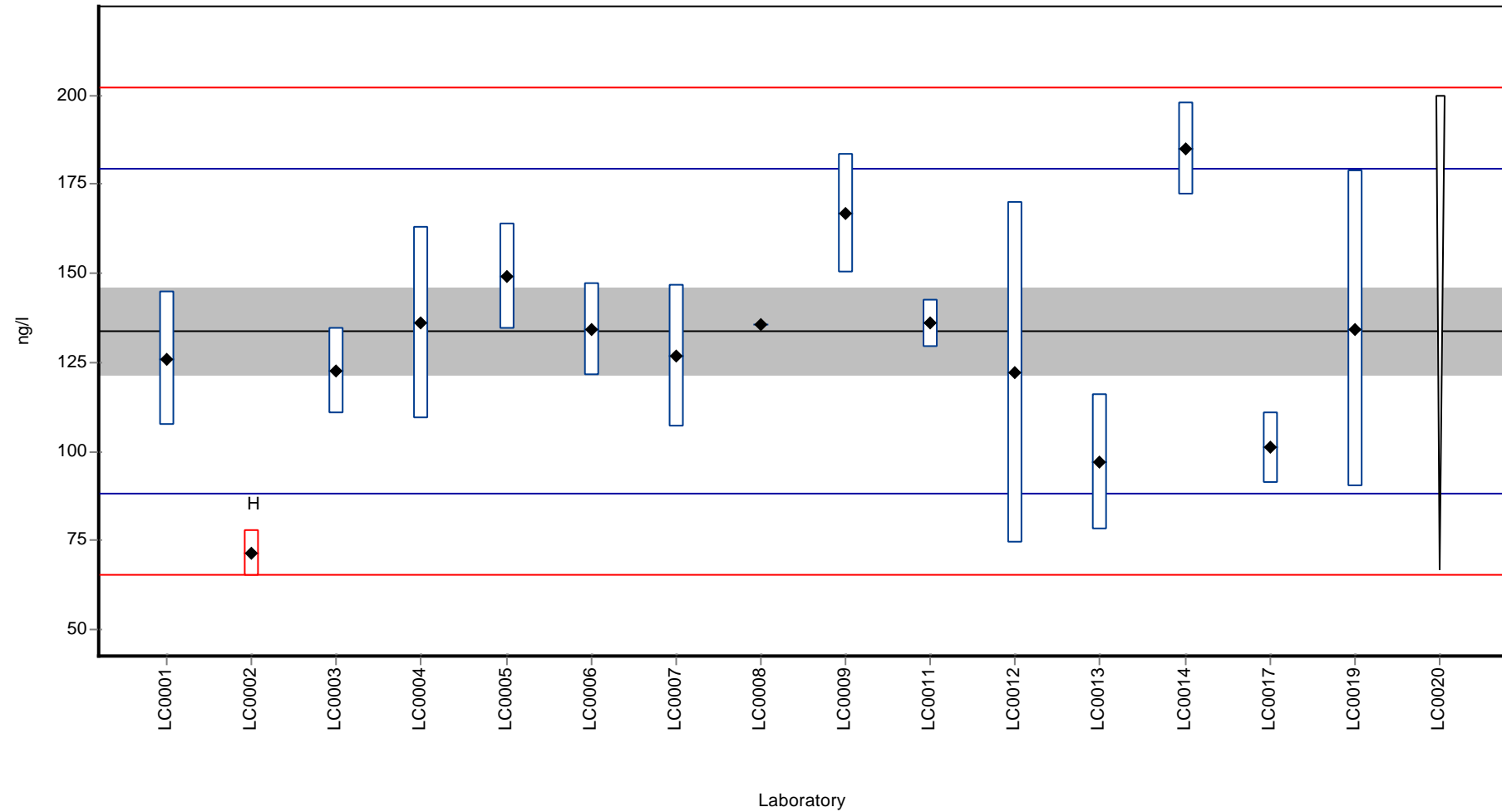
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	126.000	18.900	94.2	-0.3	
LC0002	71.500	6.500	53.5	-2.7	H
LC0003	122.600	12.300	91.7	-0.5	
LC0004	136.000	27.000	101.7	0.1	
LC0005	149.000	15.000	111.4	0.7	
LC0006	134.300	13.000	100.4	0.0	
LC0007	126.800	20.000	94.8	-0.3	
LC0008	135.830	0.009	101.5	0.1	
LC0009	166.800	16.680	124.7	1.4	
LC0010	-	-	-	-	
LC0011	136.000	6.800	101.7	0.1	
LC0012	122.000	48.000	91.2	-0.5	
LC0013	97.000	19.000	72.5	-1.6	
LC0014	185.000	13.000	138.3	2.2	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	101.000	10.100	75.5	-1.4	
LC0018	-	-	-	-	
LC0019	134.400	44.300	100.5	0.0	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

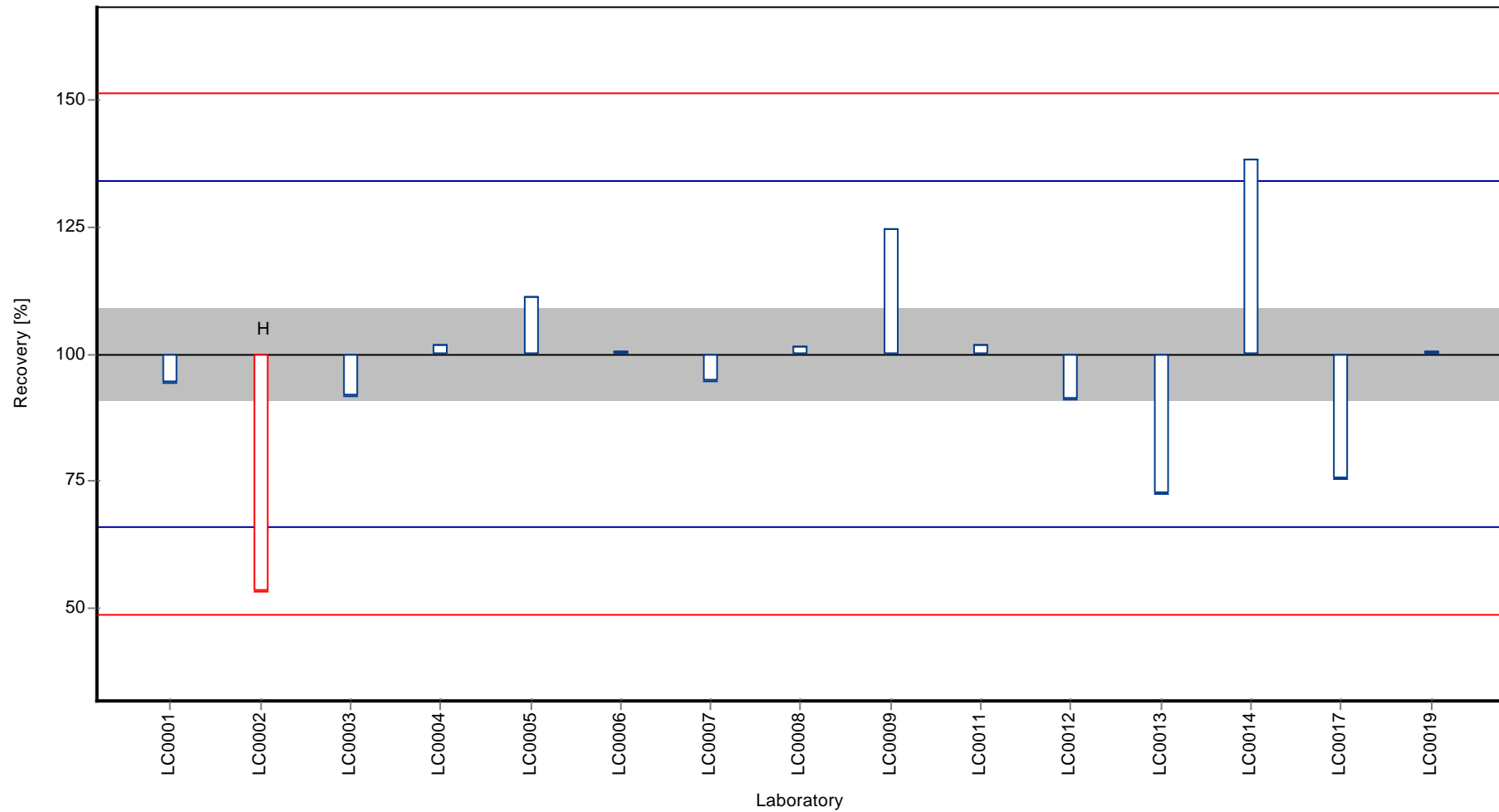
	all results	w ithout outliers	Unit
Mean ± CI (99%)	130 ± 21.1	134 ± 18.3	ng/l
Minimum	71.5	97	ng/l
Maximum	185	185	ng/l
Standard deviation	27.2	22.8	ng/l
rel. Standard deviation	21	17	%
n	15	14	-

Graphical presentation of results

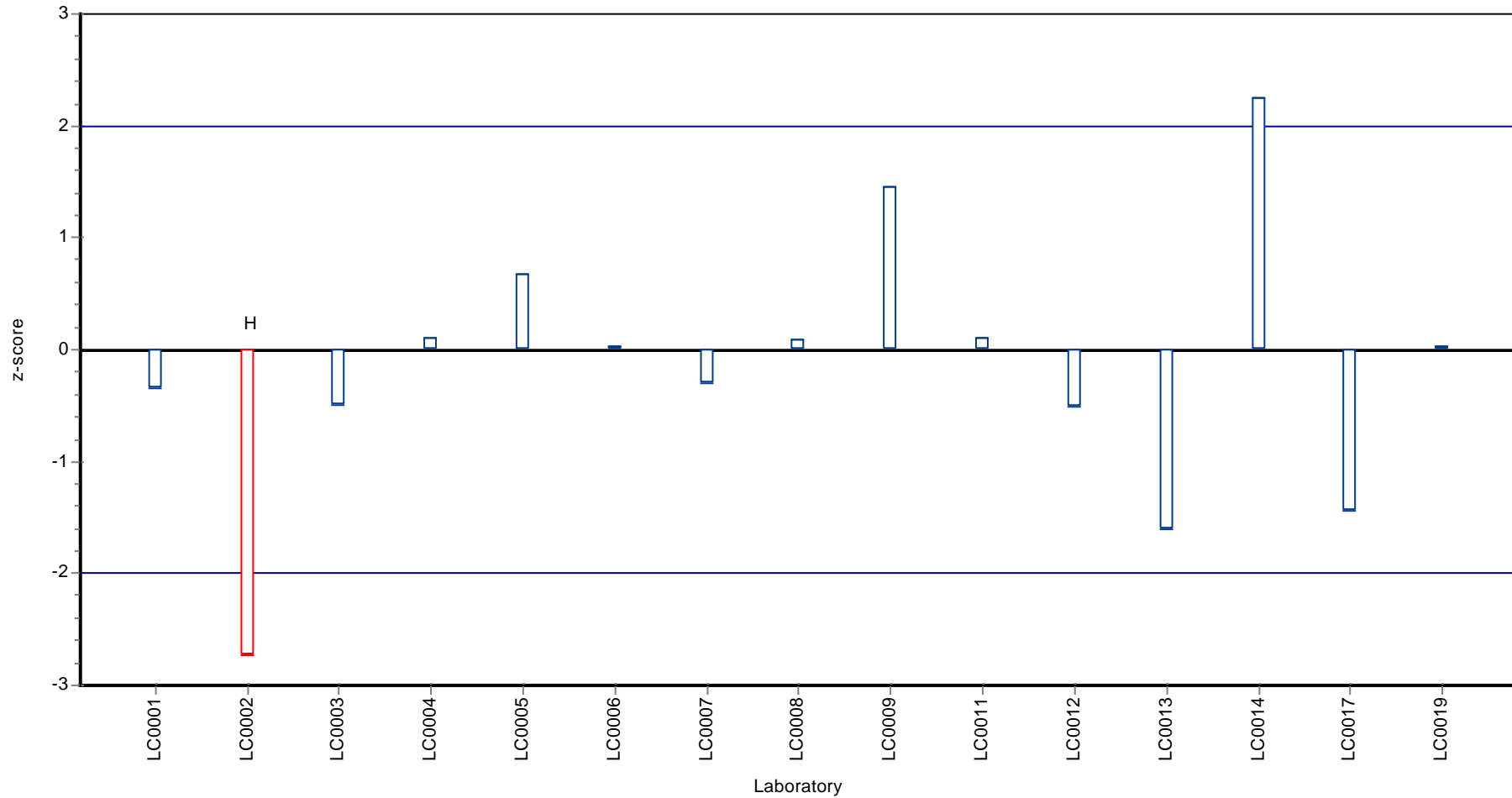
Results



Recovery rate



Z-score



Parameter oriented report

P15 A

Acenaphthylene

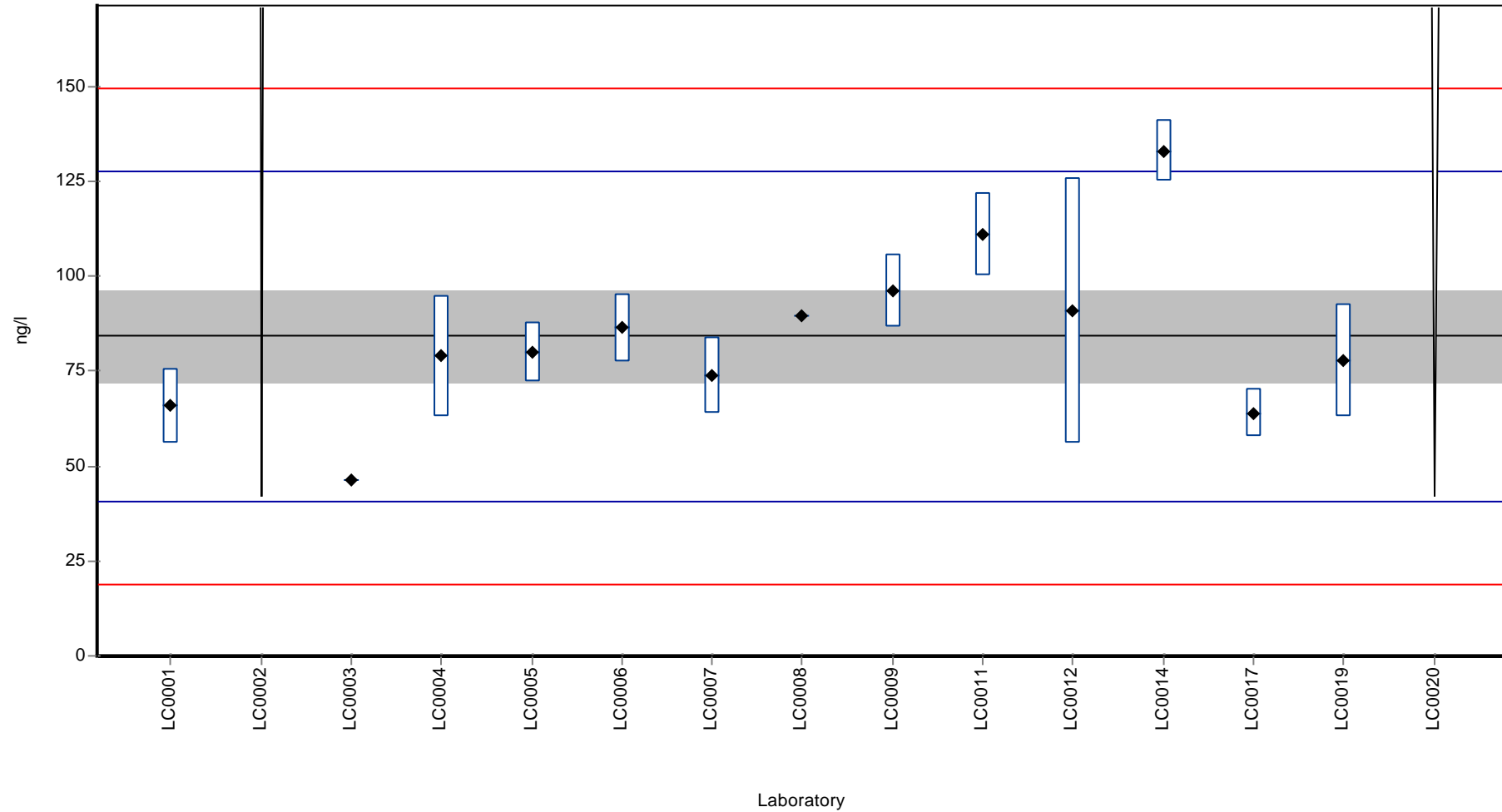
Unit	ng/l
Mean ± CI (99%)	84.2 ± 18.1
Minimum - Maximum	46.3 - 133
Check value ± U	76 ± 5.2

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	65.900	9.900	78.3	-0.8	
LC0002	< 500 (LOQ)	-	-	-	
LC0003	46.300	-	55.0	-1.7	
LC0004	79.000	16.000	93.9	-0.2	
LC0005	80.000	8.000	95.0	-0.2	
LC0006	86.400	9.000	102.6	0.1	
LC0007	74.000	10.000	87.9	-0.5	
LC0008	89.780	0.0012	106.7	0.3	
LC0009	96.000	9.600	114.0	0.5	
LC0010	-	-	-	-	
LC0011	111.000	11.100	131.9	1.2	
LC0012	91.000	35.000	108.1	0.3	
LC0013	-	-	-	-	
LC0014	133.000	8.000	158.0	2.2	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	64.000	6.400	76.0	-0.9	
LC0018	-	-	-	-	
LC0019	77.900	14.800	92.5	-0.3	
LC0020	< 200 (LOQ)	-	-	-	

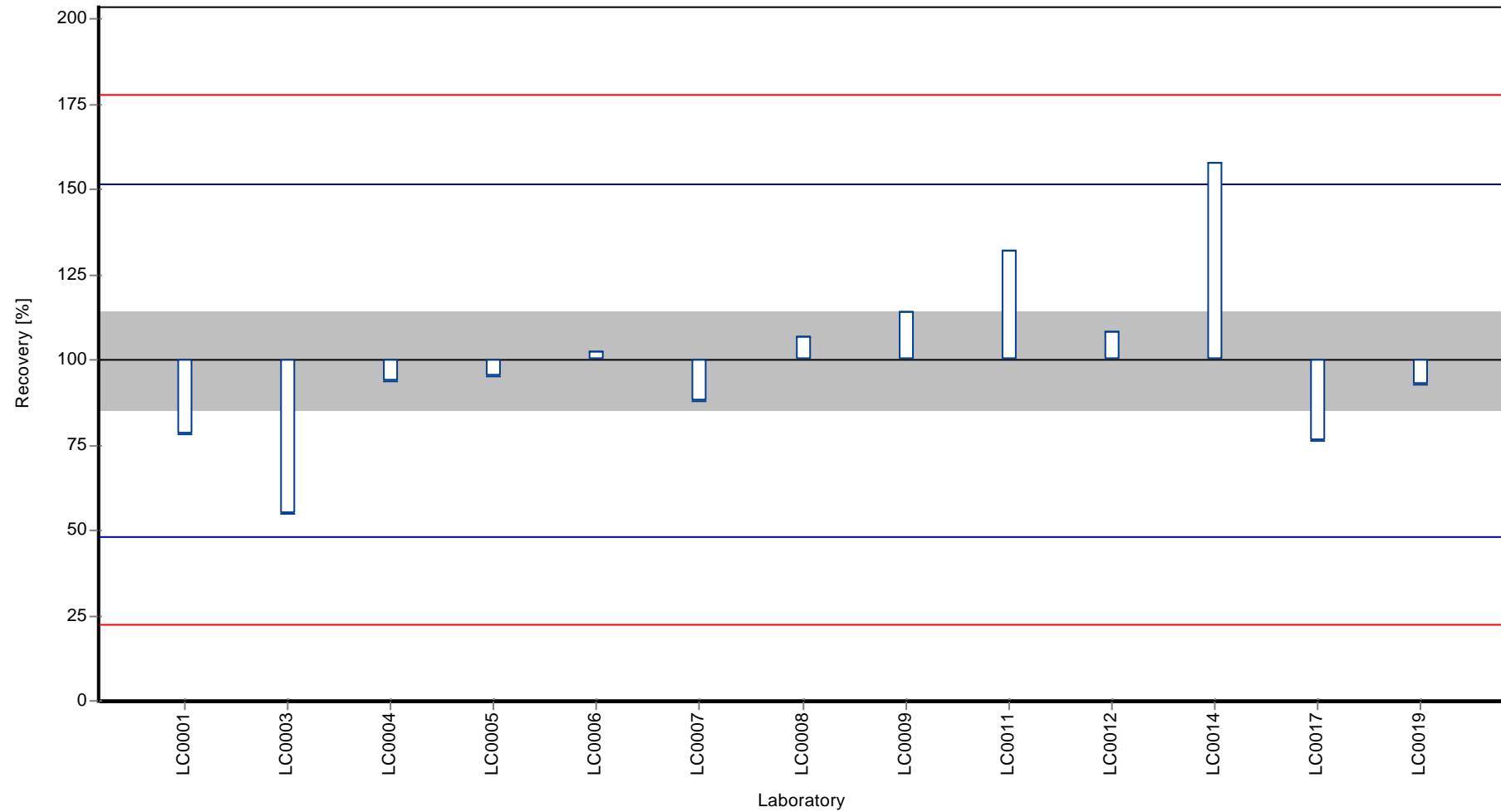
Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	84.2 ± 18.1	84.2 ± 18.1	ng/l
Minimum	46.3	46.3	ng/l
Maximum	133	133	ng/l
Standard deviation	21.8	21.8	ng/l
rel. Standard deviation	25.9	25.9	%
n	13	13	-

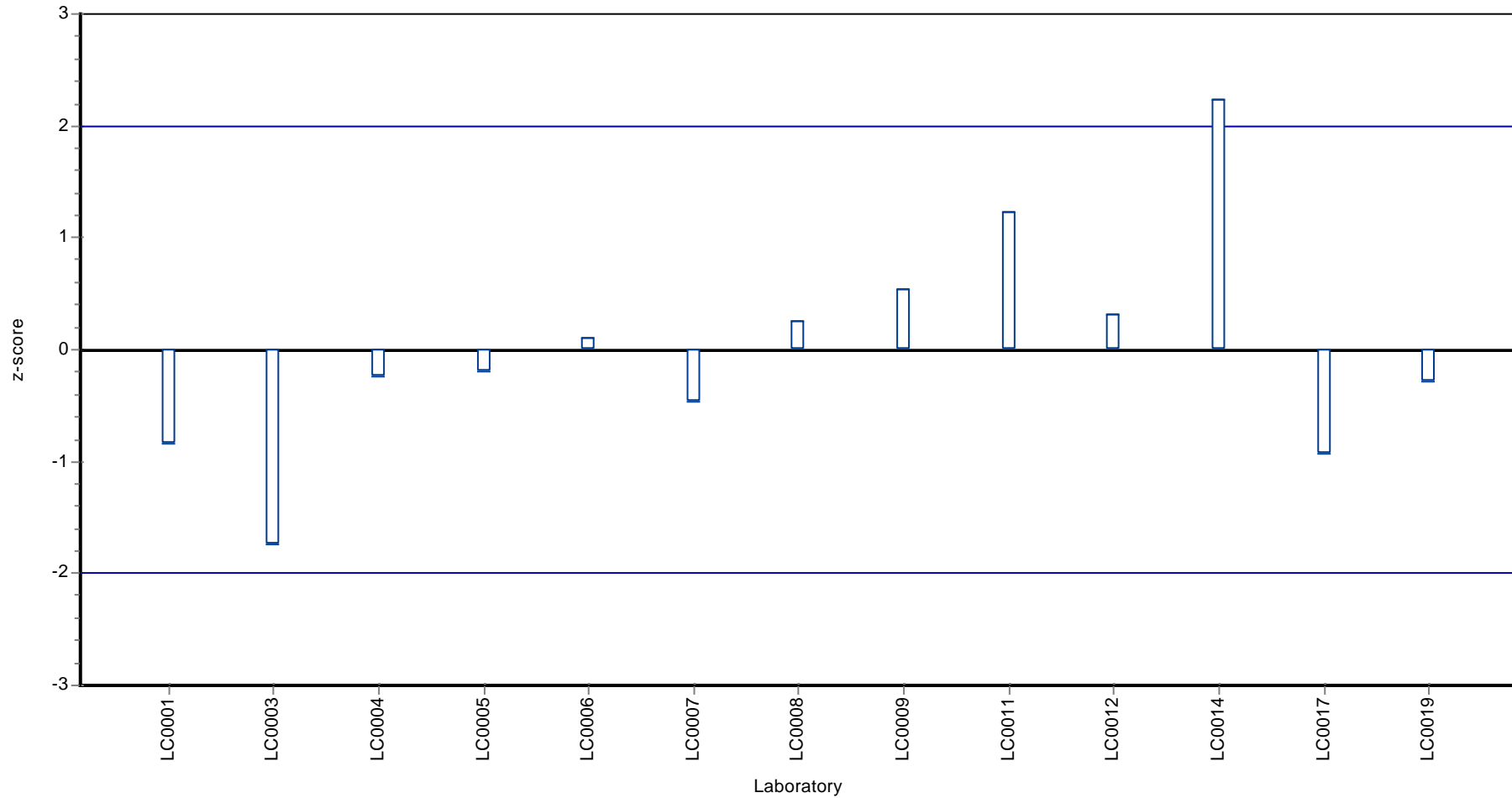
Graphical presentation of results
Results



Recovery rate



Z-score



Parameter oriented report

P15 B

Acenaphthylene

Unit	ng/l
Mean ± CI (99%)	-
Minimum - Maximum	7.61 - 16
Check value ± U	< 4.5 (LOQ)

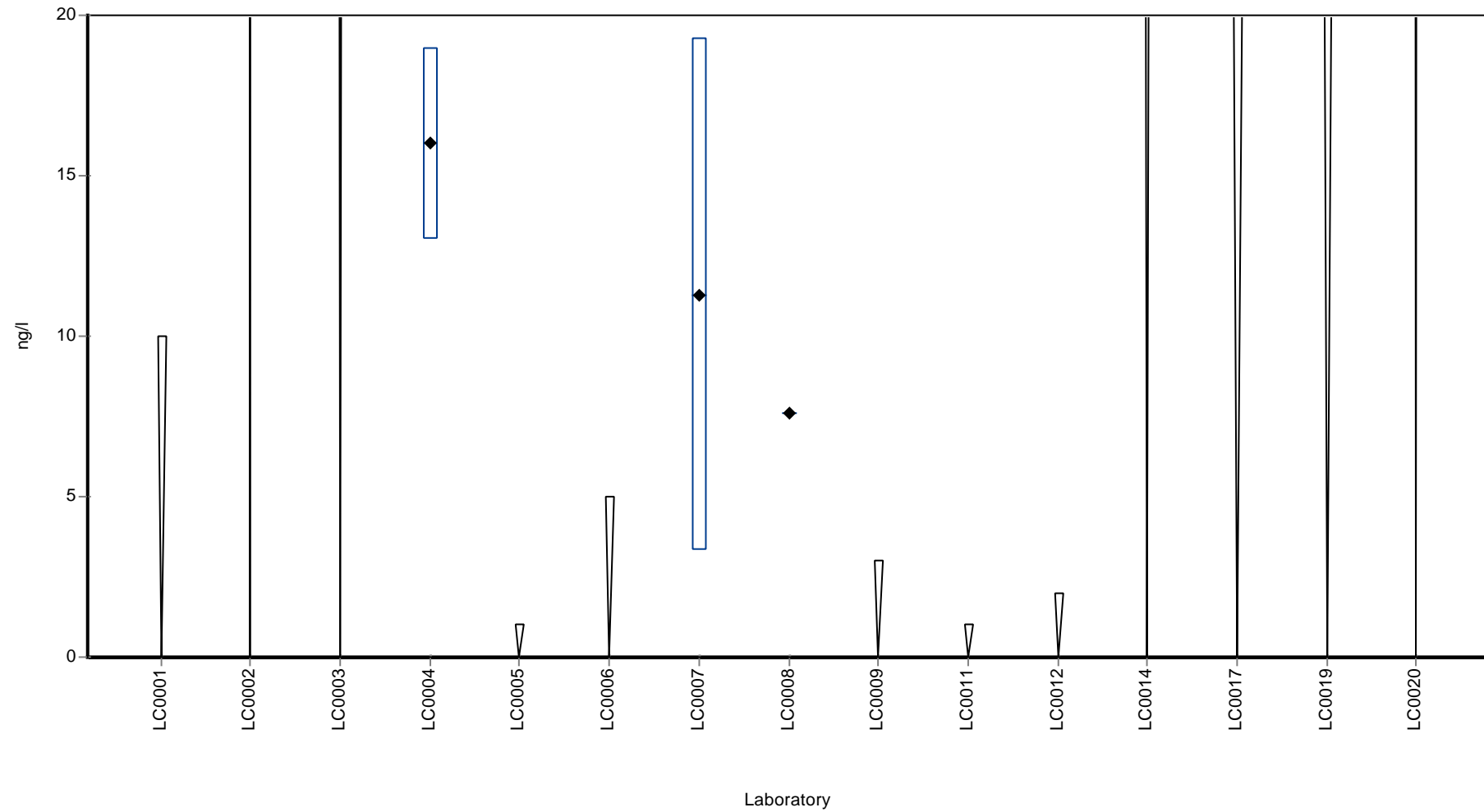
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	< 500 (LOQ)	-	-	-	
LC0003	< 100 (LOQ)	-	-	-	
LC0004	16.000	3.000	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 5 (LOQ)	-	-	-	
LC0007	11.300	8.000	-	-	
LC0008	7.610	0.007	-	-	
LC0009	< 3 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	< 1 (LOQ)	-	-	-	
LC0012	< 2 (LOQ)	-	-	-	
LC0013	-	-	-	-	
LC0014	<60 (LOD)	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 25 (LOQ)	-	-	-	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	11.6 ± 7.28	-	ng/l
Minimum	7.61	7.61	ng/l
Maximum	16	16	ng/l
Standard deviation	4.21	-	ng/l
rel. Standard deviation	36.1	-	%
n	3	3	-

Graphical presentation of results

Results



Parameter oriented report

P15 A

Anthracene

Unit	ng/l
Mean ± CI (99%)	-
Minimum - Maximum	2.3 - 2.3
Check value ± U	< 1.9 (LOQ)

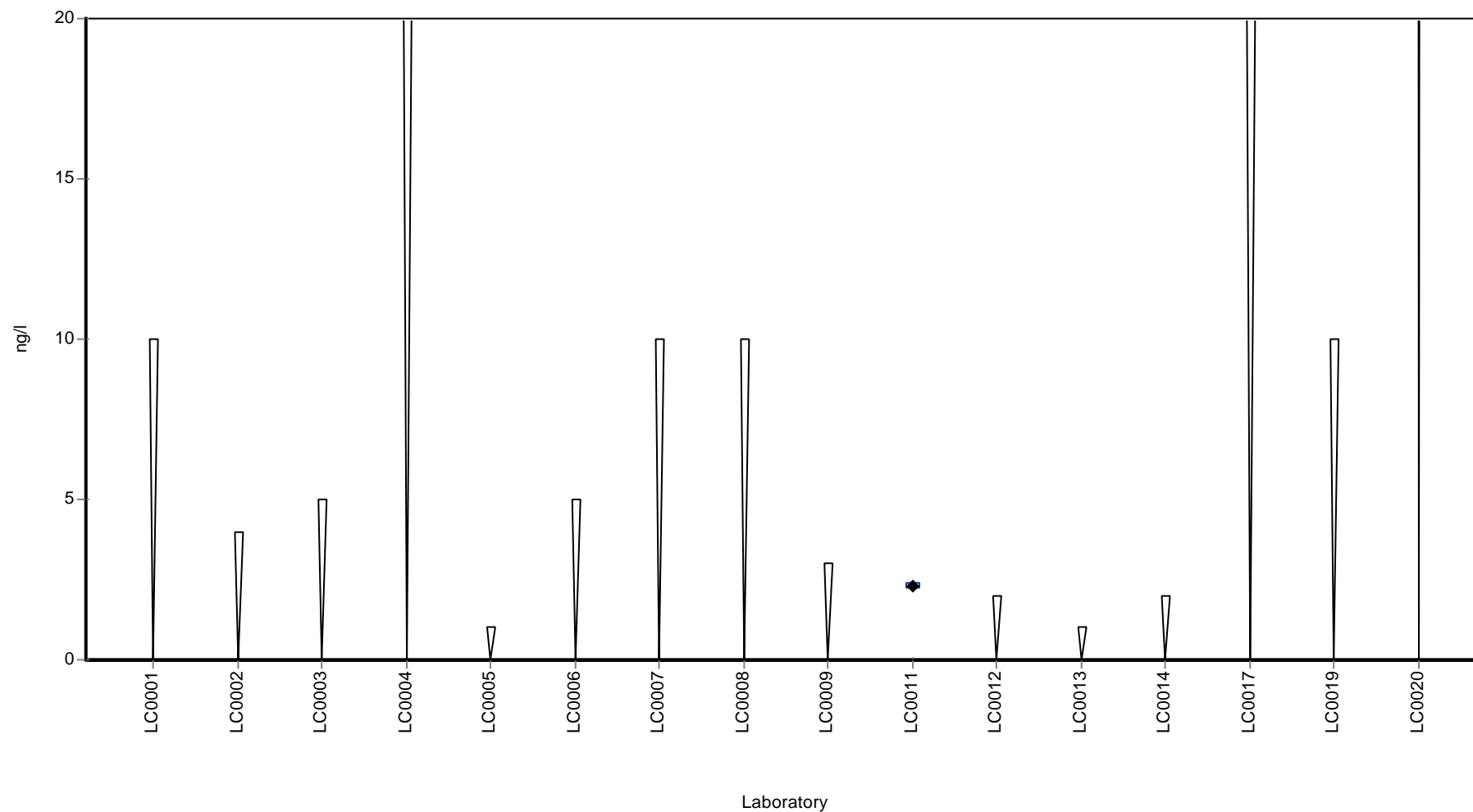
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	< 4 (LOQ)	-	-	-	
LC0003	< 5 (LOQ)	-	-	-	
LC0004	< 21 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 5 (LOQ)	-	-	-	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	< 10 (LOQ)	-	-	-	
LC0009	< 3 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	2.300	0.120	-	-	
LC0012	< 2 (LOQ)	-	-	-	
LC0013	< 1 (LOQ)	-	-	-	
LC0014	<2 (LOD)	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 10 (LOQ)	-	-	-	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	2.3	-	ng/l
Minimum	2.3	2.3	ng/l
Maximum	2.3	2.3	ng/l
Standard deviation	-	-	ng/l
rel. Standard deviation	-	-	%
n	1	1	-

Graphical presentation of results

Results



Parameter oriented report

P15 B

Anthracene

Unit	ng/l
Mean ± CI (99%)	-
Minimum - Maximum	-
Check value ± U	<0.42 (LOD)

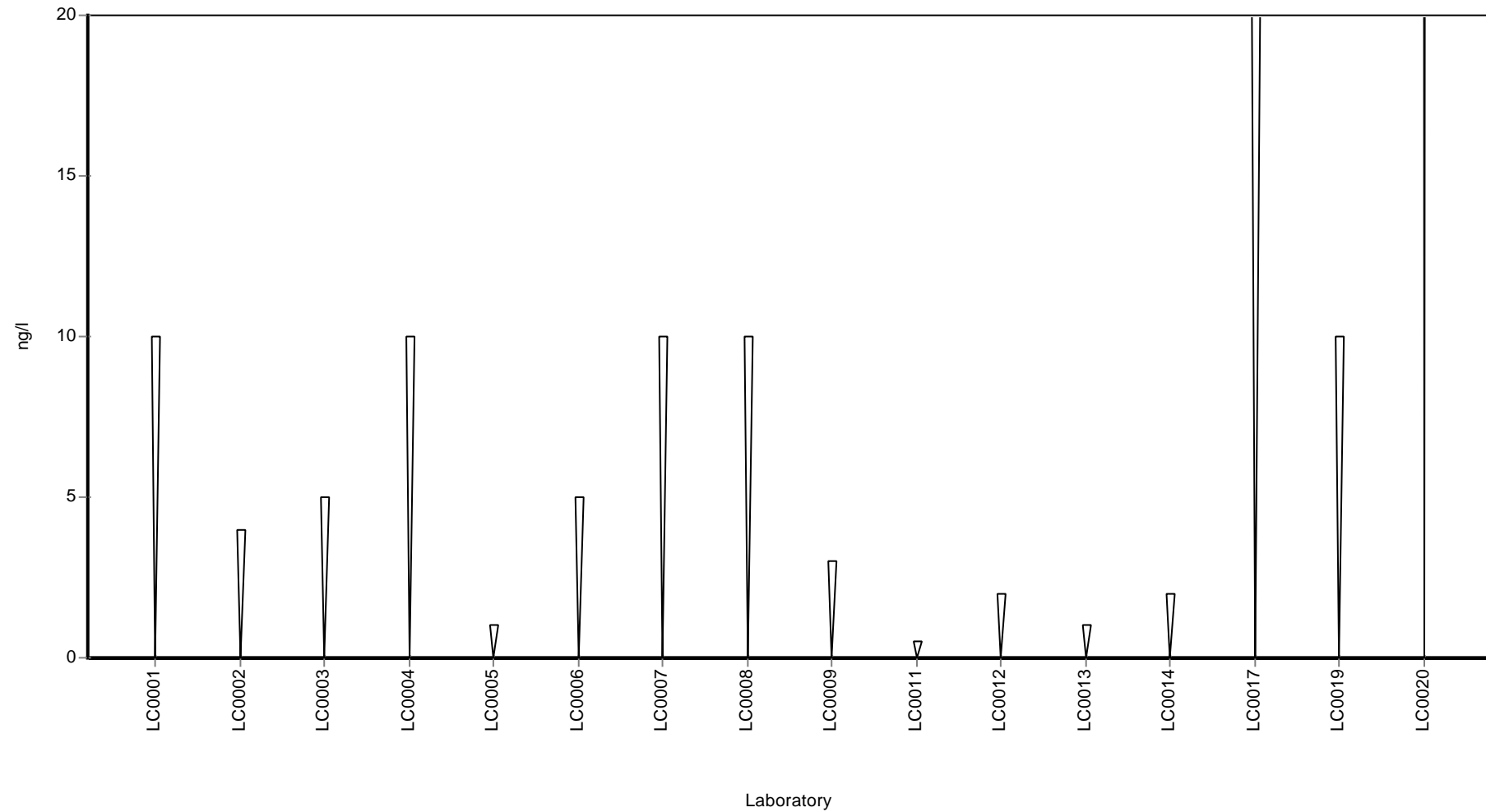
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	< 4 (LOQ)	-	-	-	
LC0003	< 5 (LOQ)	-	-	-	
LC0004	< 10 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 5 (LOQ)	-	-	-	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	< 10 (LOQ)	-	-	-	
LC0009	< 3 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	< 0.5 (LOQ)	-	-	-	
LC0012	< 2 (LOQ)	-	-	-	
LC0013	< 1 (LOQ)	-	-	-	
LC0014	<2 (LOD)	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 10 (LOQ)	-	-	-	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	-	-	ng/l
Minimum	-	-	ng/l
Maximum	-	-	ng/l
Standard deviation	-	-	ng/l
rel. Standard deviation	-	-	%
n	0	0	-

Graphical presentation of results

Results



Parameter oriented report Polycyclic Aromatic
Hydrocarbons - P15

Sample: P15A, Parameter: Benzo[a]anthracene

Parameter oriented report

P15 A

Benzo[a]anthracene

Unit	ng/l
Mean ± CI (99%)	105 ± 30.7
Minimum - Maximum	39.9 - 159
Check value ± U	110 ± 17.1

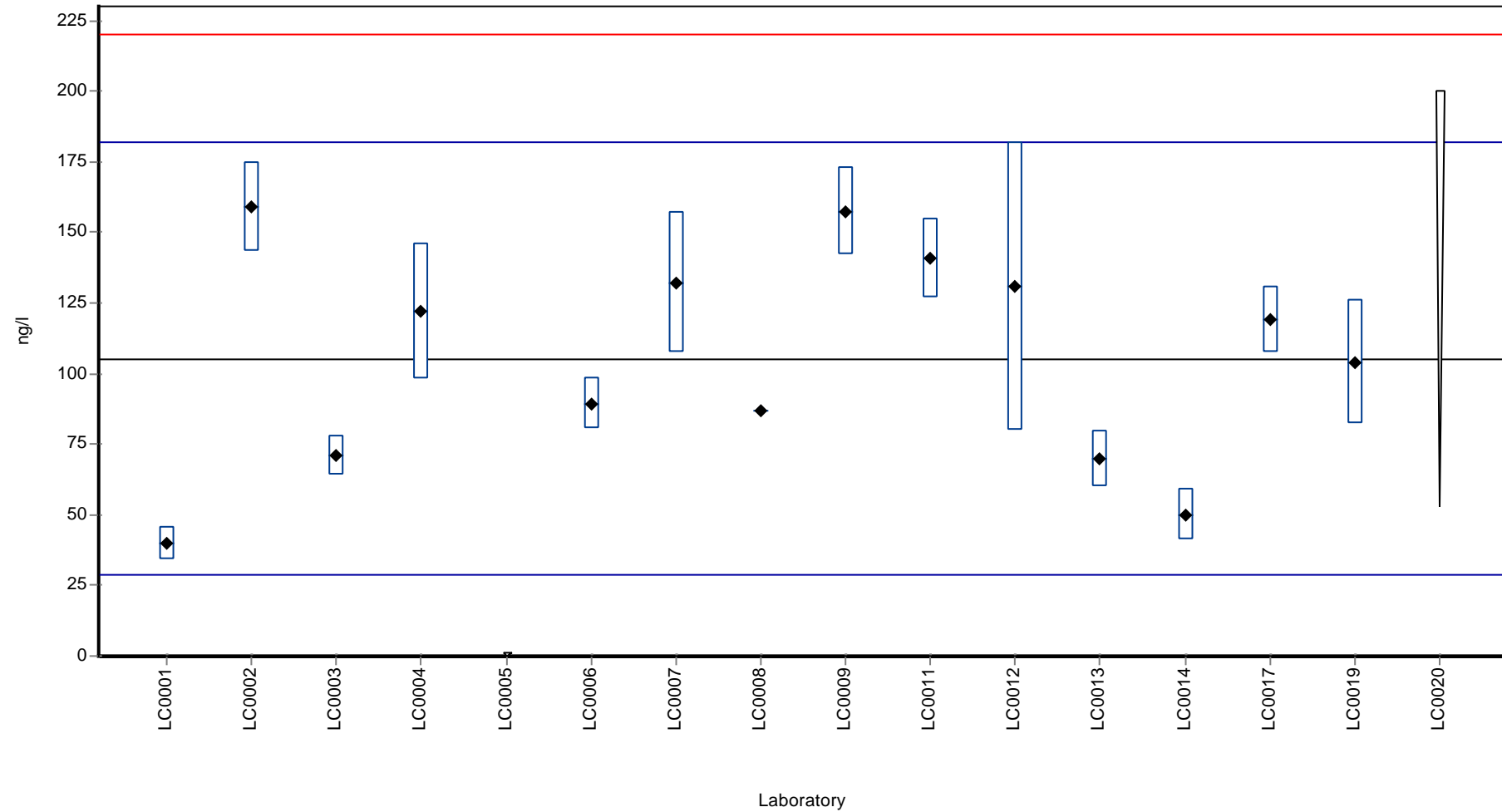
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	39.900	6.000	37.9	-1.7	
LC0002	159.000	16.000	151.1	1.4	
LC0003	71.100	7.100	67.6	-0.9	
LC0004	122.000	24.000	115.9	0.4	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	89.400	9.000	85.0	-0.4	
LC0007	132.100	25.000	125.5	0.7	
LC0008	87.070	0.0033	82.7	-0.5	
LC0009	157.500	15.750	149.7	1.4	
LC0010	-	-	-	-	
LC0011	141.000	14.100	134.0	0.9	
LC0012	131.000	51.000	124.5	0.7	
LC0013	70.000	10.000	66.5	-0.9	
LC0014	50.000	9.000	47.5	-1.4	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	119.000	11.900	113.1	0.4	
LC0018	-	-	-	-	
LC0019	104.100	21.900	98.9	0.0	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

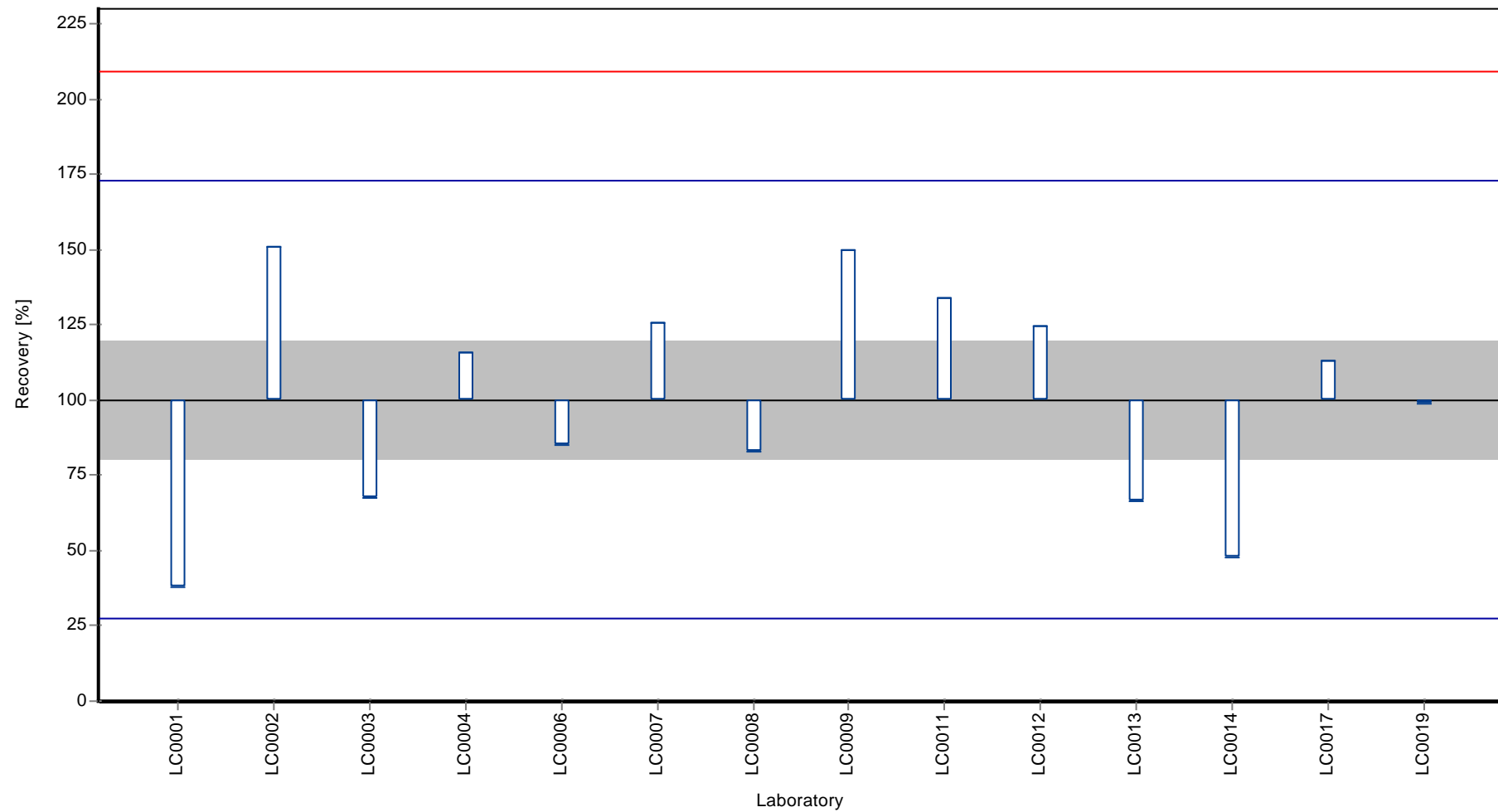
	all results	w ithout outliers	Unit
Mean ± CI (99%)	105 ± 30.7	105 ± 30.7	ng/l
Minimum	39.9	39.9	ng/l
Maximum	159	159	ng/l
Standard deviation	38.3	38.3	ng/l
rel. Standard deviation	36.4	36.4	%
n	14	14	-

Graphical presentation of results

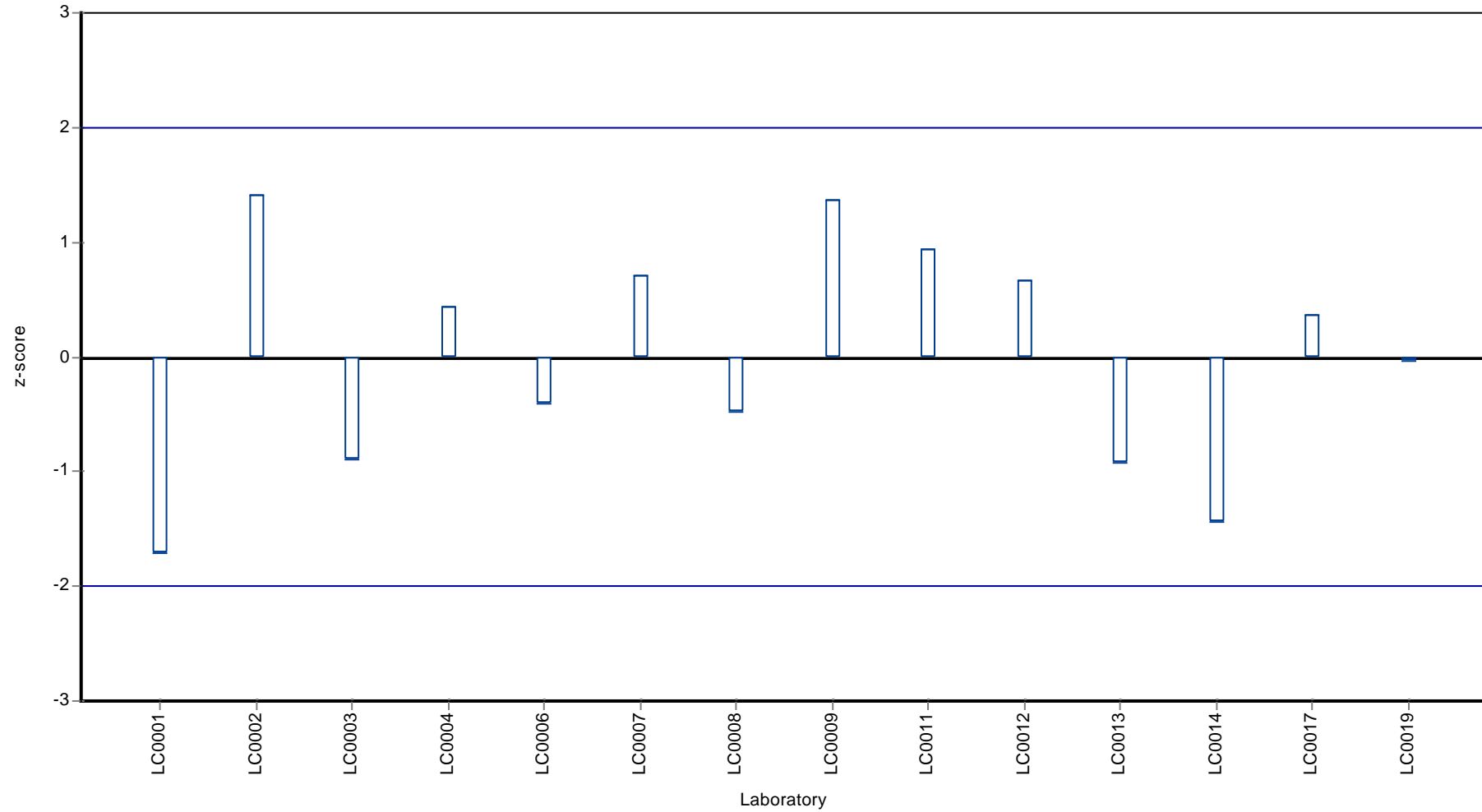
Results



Recovery rate



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15B, Parameter: Benzo[a]anthracene

Parameter oriented report

P15 B

Benzo[a]anthracene

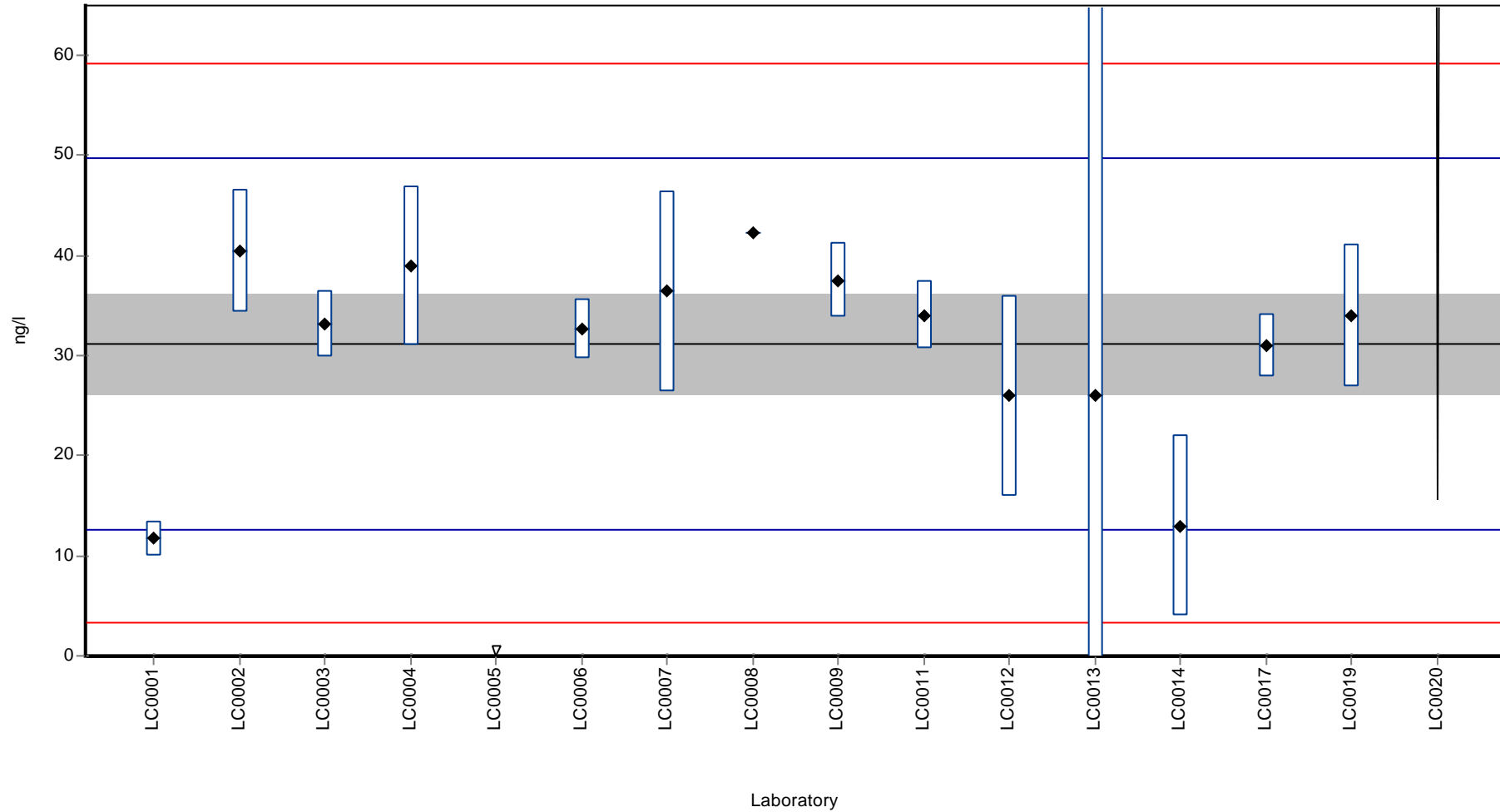
Unit	ng/l
Mean ± CI (99%)	31.2 ± 7.46
Minimum - Maximum	11.7 - 42.32
Check value ± U	24 ± 5.5

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	11.700	1.800	37.5	-2.1	
LC0002	40.500	6.100	129.7	1.0	
LC0003	33.100	3.300	106.0	0.2	
LC0004	39.000	8.000	124.9	0.8	
LC0005	< 1 (LOQ)	-	-	-	FN
LC0006	32.600	3.000	104.4	0.1	
LC0007	36.400	10.000	116.6	0.6	
LC0008	42.320	0.009	135.5	1.2	
LC0009	37.500	3.750	120.1	0.7	
LC0010	-	-	-	-	
LC0011	34.000	3.400	108.9	0.3	
LC0012	26.000	10.000	83.3	-0.6	
LC0013	26.000	516.000	83.3	-0.6	
LC0014	13.000	9.000	41.6	-2.0	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	31.000	3.100	99.3	0.0	
LC0018	-	-	-	-	
LC0019	34.000	7.100	108.9	0.3	
LC0020	< 200 (LOQ)	-	-	-	

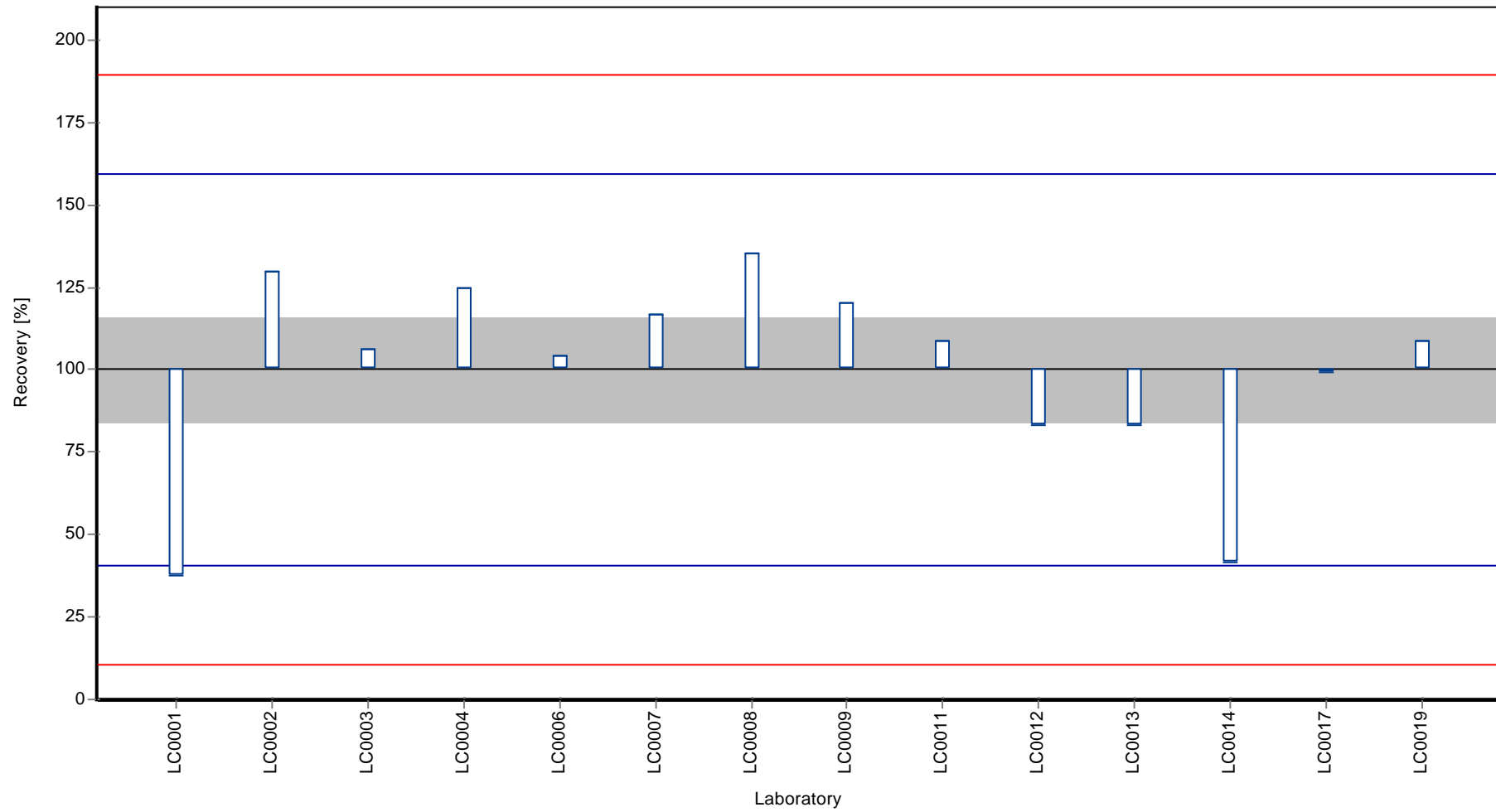
Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	31.2 ± 7.46	31.2 ± 7.46	ng/l
Minimum	11.7	11.7	ng/l
Maximum	42.3	42.3	ng/l
Standard deviation	9.3	9.3	ng/l
rel. Standard deviation	29.8	29.8	%
n	14	14	-

Graphical presentation of results
Results



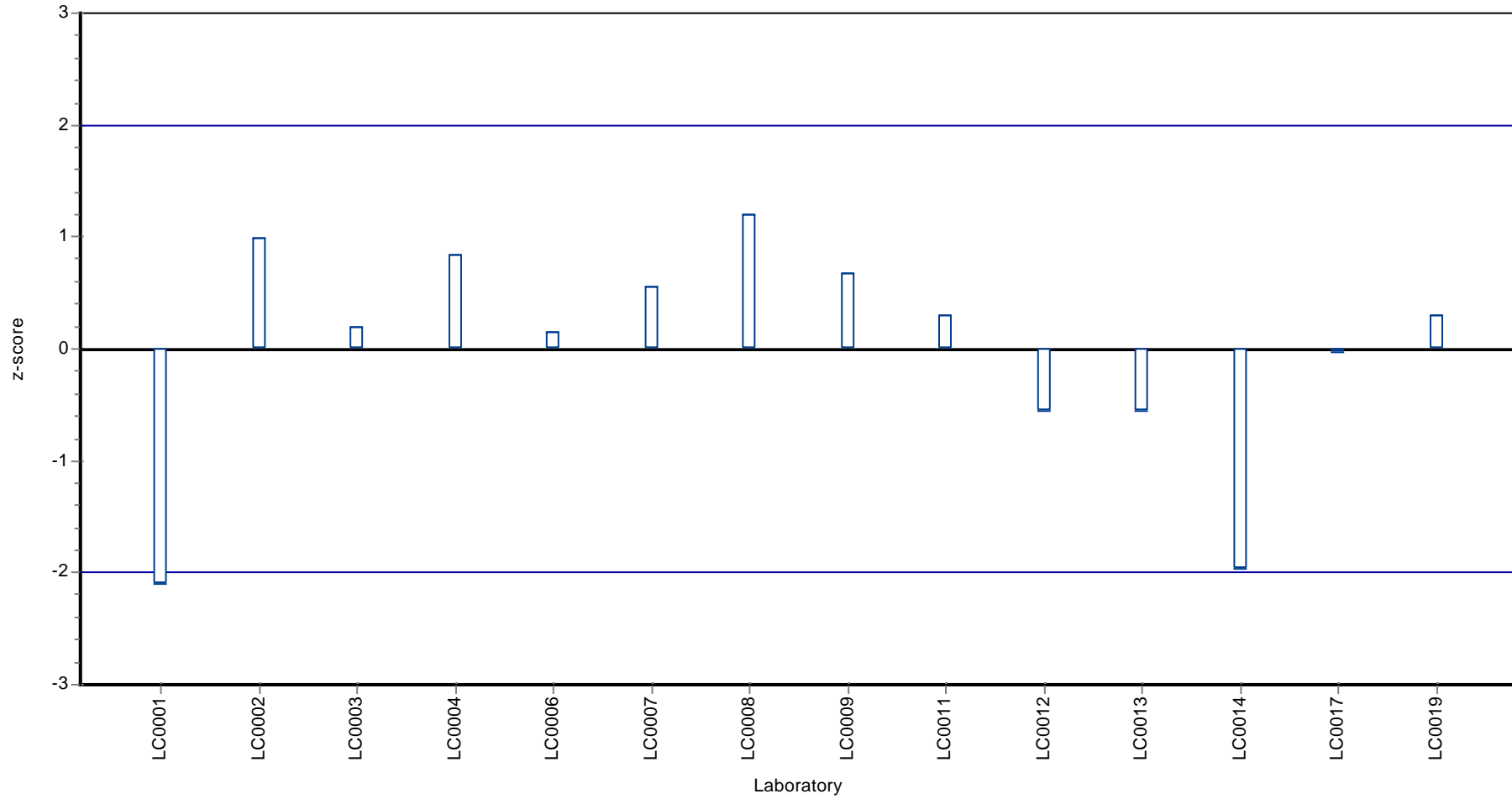
Recovery rate



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15B, Parameter: Benzo[a]anthracene

Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15A, Parameter: Benzo[a]pyrene

Parameter oriented report

P15 A

Benzo[a]pyrene

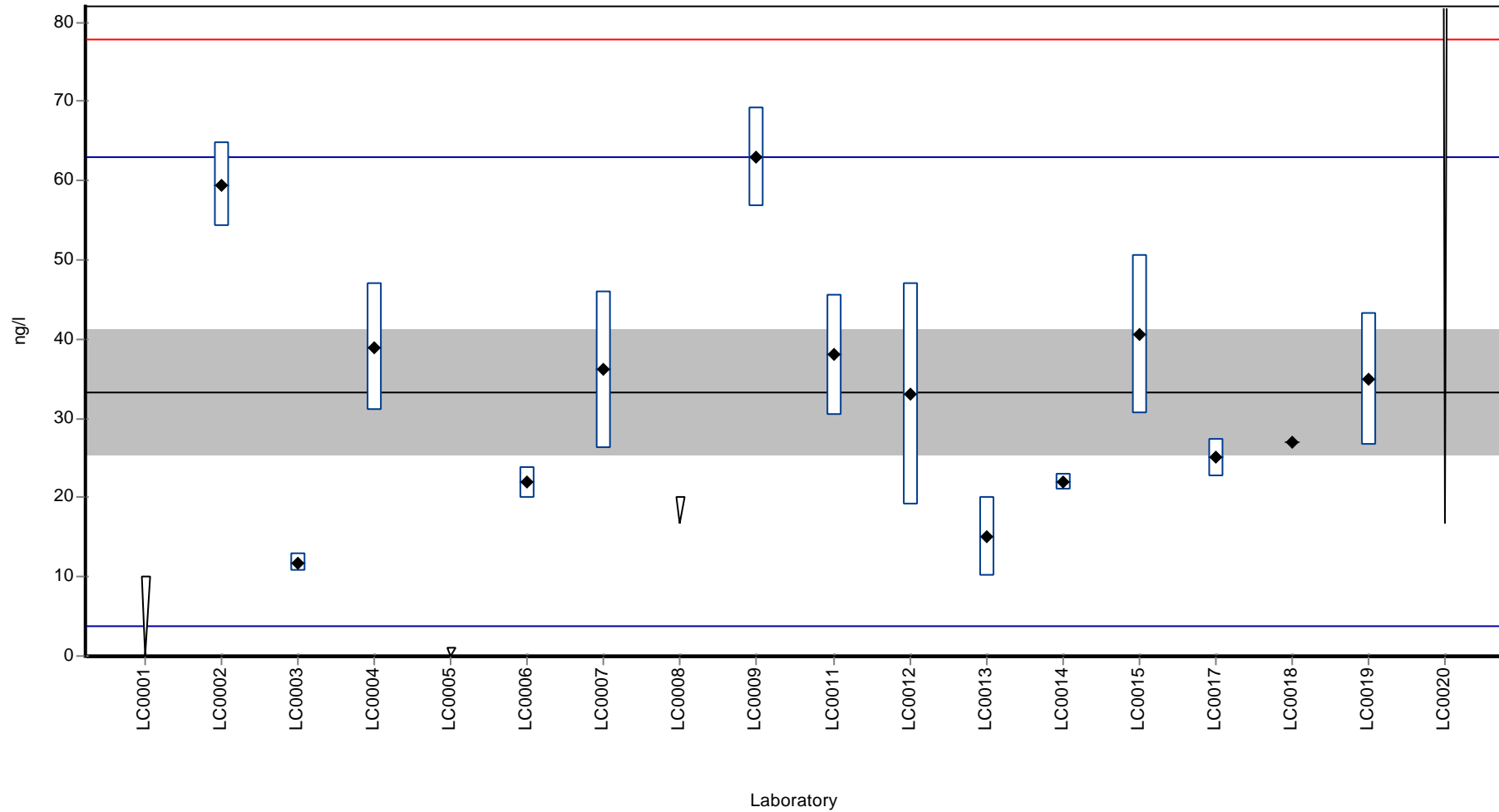
Unit	ng/l
Mean ± CI (99%)	33.3 ± 11.9
Minimum - Maximum	11.8 - 63
Check value ± U	38 ± 8.4

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	59.500	5.300	178.4	1.8	
LC0003	11.800	1.200	35.4	-1.5	
LC0004	39.000	8.000	117.0	0.4	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	21.900	2.000	65.7	-0.8	
LC0007	36.100	10.000	108.3	0.2	
LC0008	< 20 (LOQ)	-	-	-	
LC0009	63.000	6.300	188.9	2.0	
LC0010	-	-	-	-	
LC0011	38.000	7.600	114.0	0.3	
LC0012	33.000	14.000	99.0	0.0	
LC0013	15.000	5.000	45.0	-1.2	
LC0014	22.000	1.000	66.0	-0.8	
LC0015	40.600	10.100	121.8	0.5	
LC0016	-	-	-	-	
LC0017	25.000	2.500	75.0	-0.6	
LC0018	26.900	-	80.7	-0.4	
LC0019	35.000	8.400	105.0	0.1	
LC0020	< 200 (LOQ)	-	-	-	

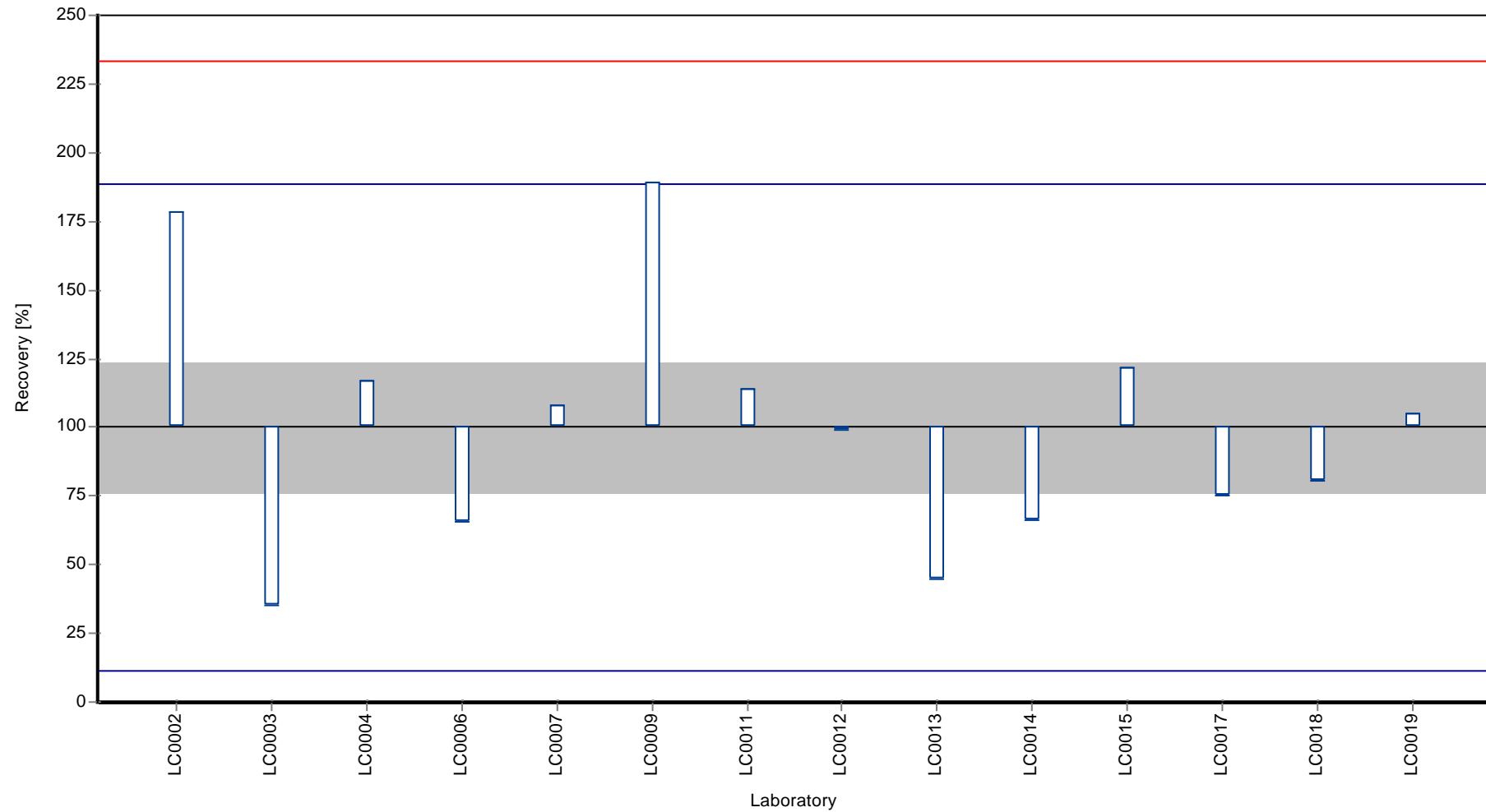
Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	33.3 ± 11.9	33.3 ± 11.9	ng/l
Minimum	11.8	11.8	ng/l
Maximum	63	63	ng/l
Standard deviation	14.8	14.8	ng/l
rel. Standard deviation	44.4	44.4	%
n	14	14	-

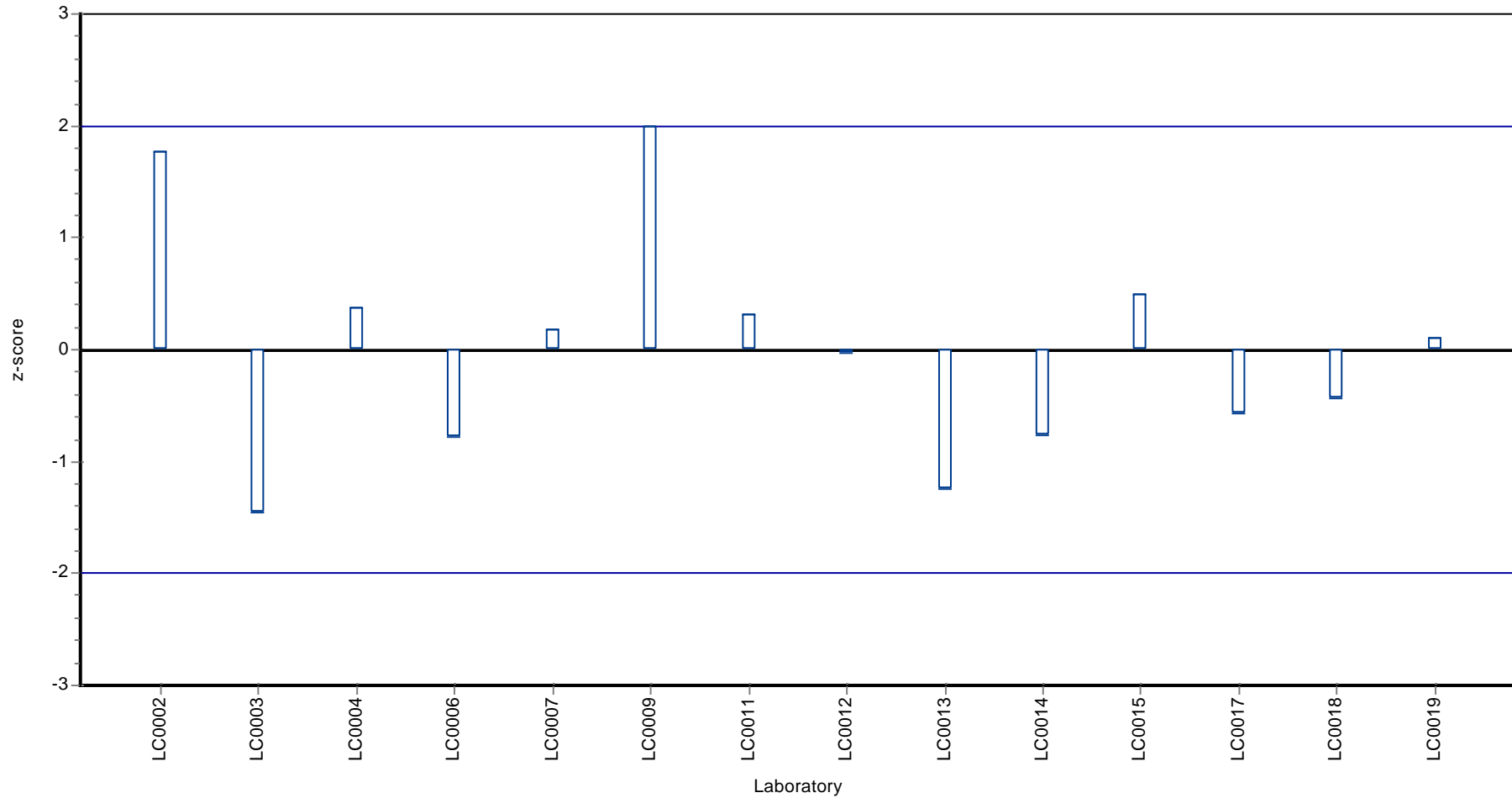
Graphical presentation of results
Results



Recovery rate



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15B, Parameter: Benzo[a]pyrene

Parameter oriented report

P15 B

Benzo[a]pyrene

Unit	ng/l
Mean ± CI (99%)	6.77 ± 3.27
Minimum - Maximum	2 - 14.2
Check value ± U	6.1 ± 0.95

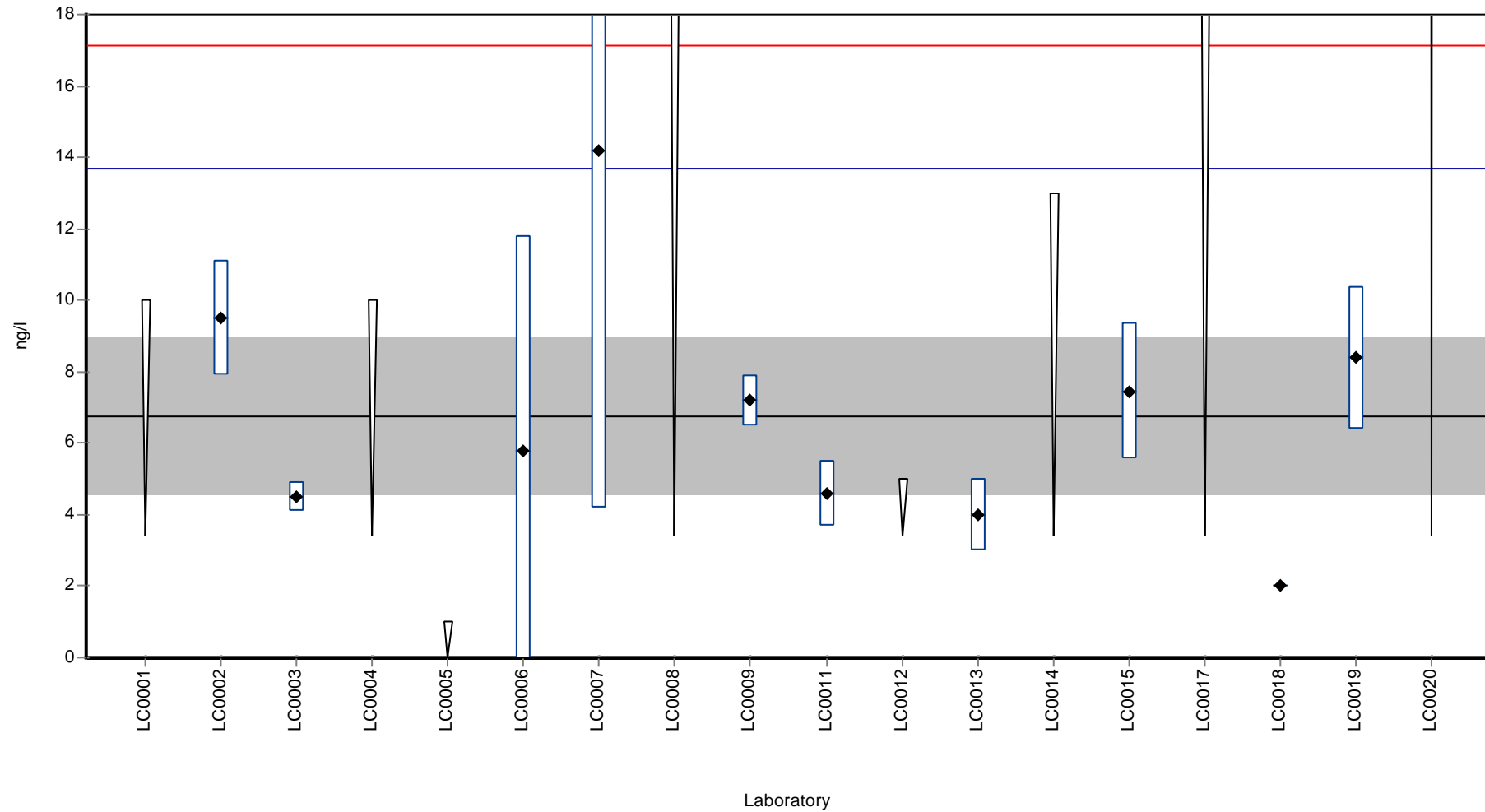
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	9.500	1.600	140.4	0.8	
LC0003	4.500	0.400	66.5	-0.7	
LC0004	< 10 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	5.800	6.000	85.7	-0.3	
LC0007	14.200	10.000	209.9	2.2	
LC0008	< 20 (LOQ)	-	-	-	
LC0009	7.200	0.720	106.4	0.1	
LC0010	-	-	-	-	
LC0011	4.600	0.920	68.0	-0.6	
LC0012	< 5 (LOQ)	-	-	-	
LC0013	4.000	1.000	59.1	-0.8	
LC0014	<13 (LOD)	-	-	-	
LC0015	7.450	1.900	110.1	0.2	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	2.000	-	29.6	-1.4	
LC0019	8.400	2.000	124.2	0.5	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

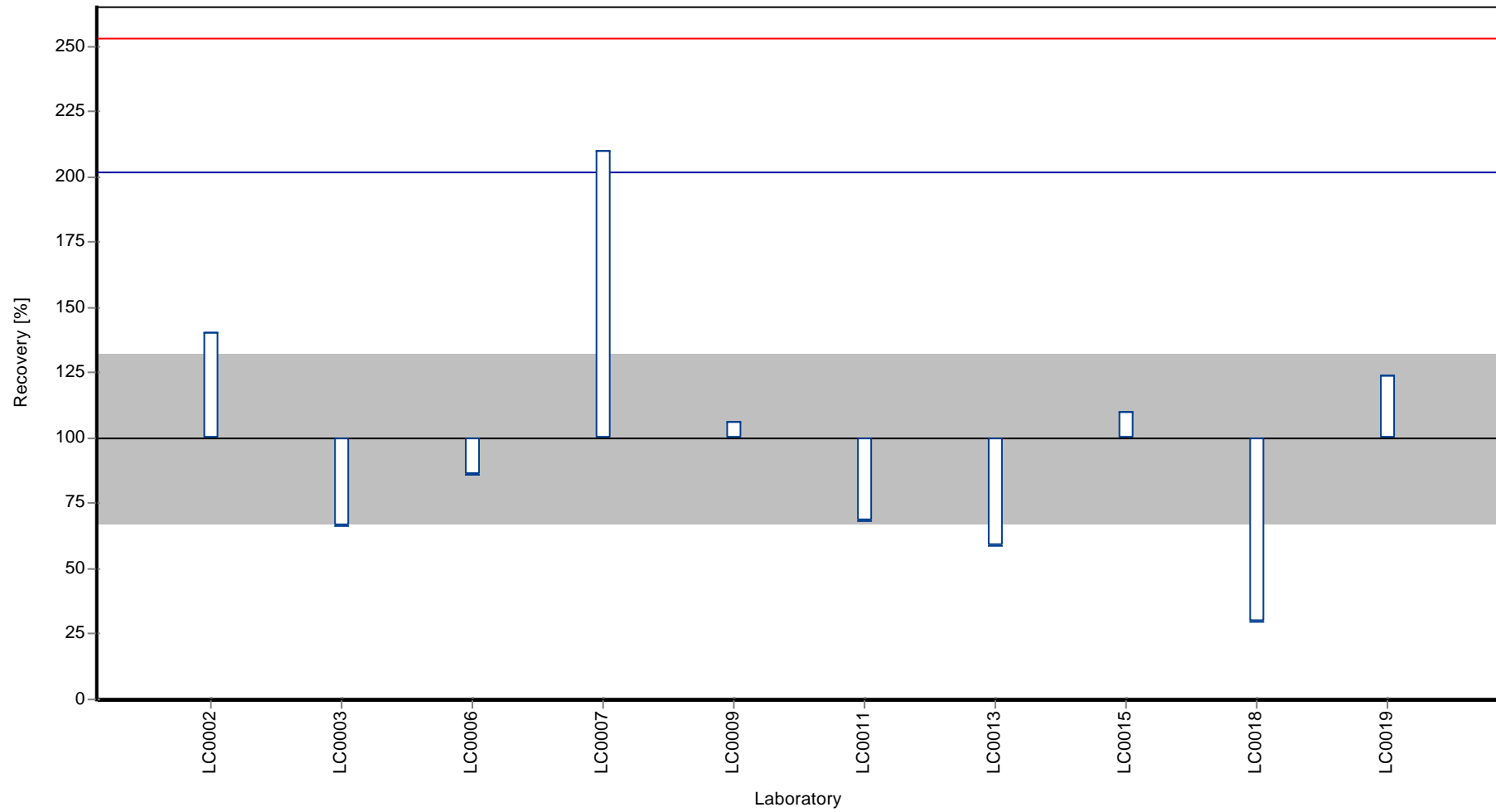
	all results	w ithout outliers	Unit
Mean ± CI (99%)	6.76 ± 3.27	6.77 ± 3.27	ng/l
Minimum	2	2	ng/l
Maximum	14.2	14.2	ng/l
Standard deviation	3.45	3.45	ng/l
rel. Standard deviation	51	51	%
n	10	10	-

Graphical presentation of results

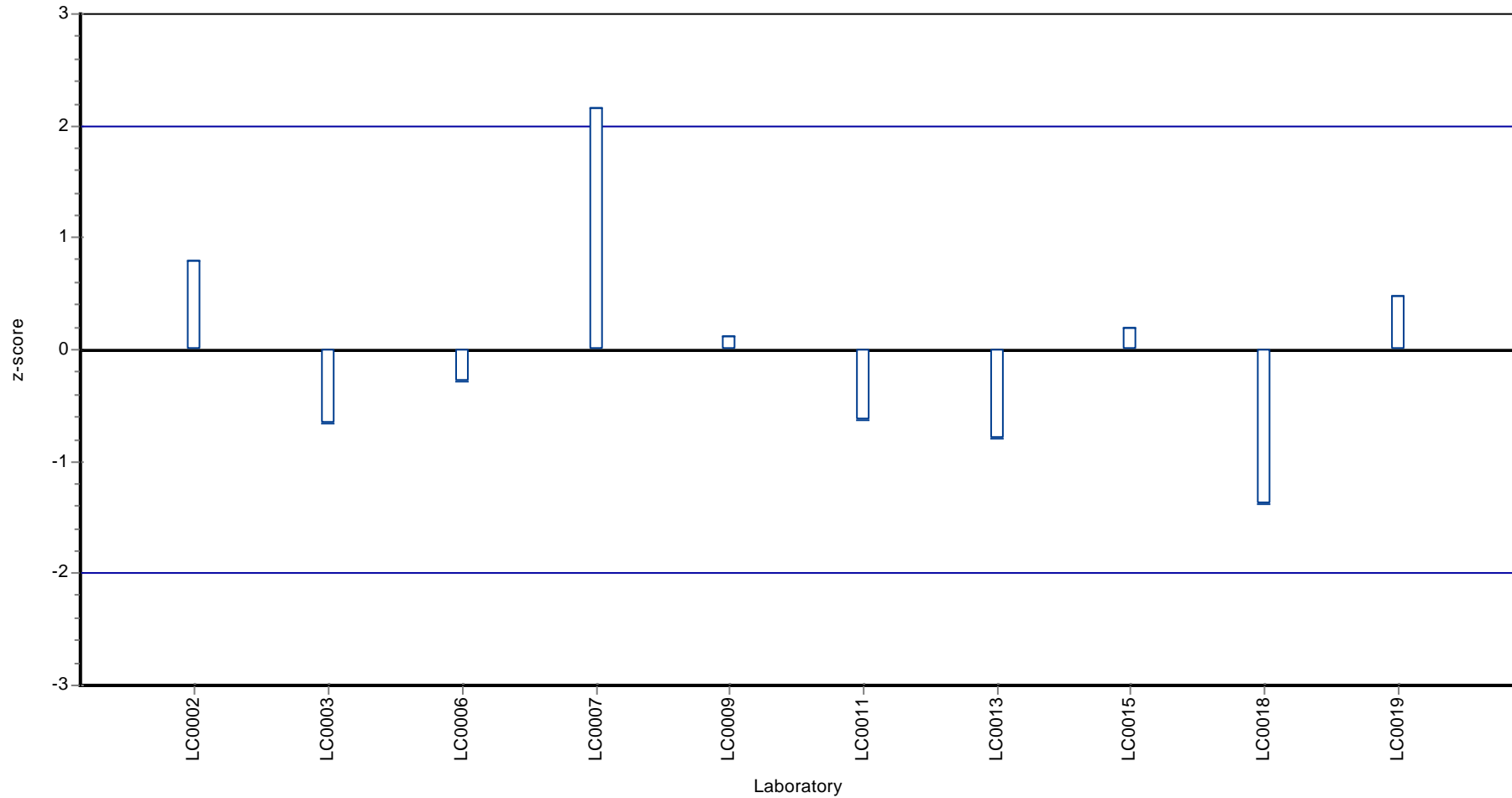
Results



Recovery rate



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15A, Parameter: Benzo[b]fluoranthene

Parameter oriented report

P15 A

Benzo[b]fluoranthene

Unit	ng/l
Mean ± CI (99%)	-
Minimum - Maximum	-
Check value ± U	<3.4 (NG)

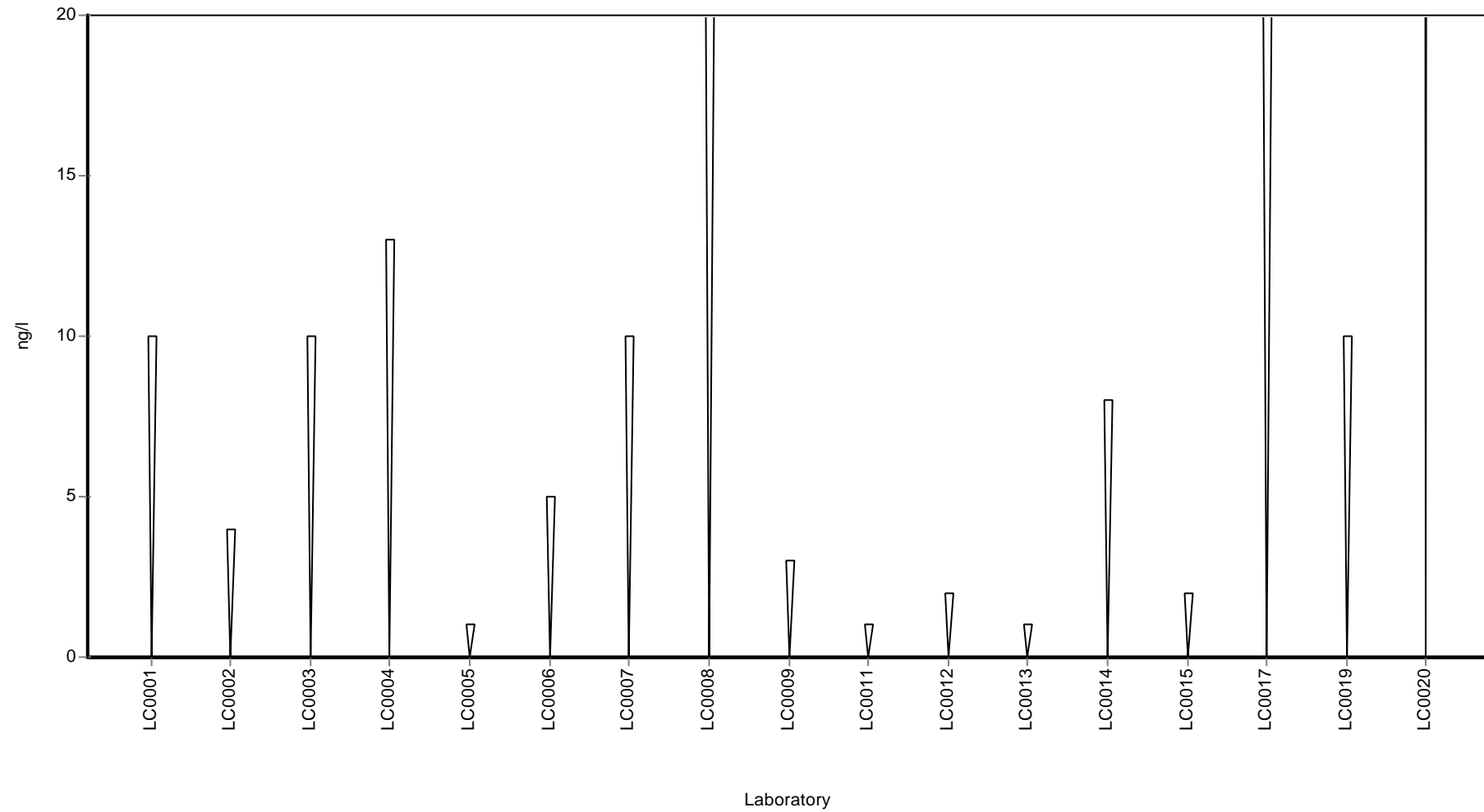
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	< 4 (LOQ)	-	-	-	
LC0003	< 10 (LOQ)	-	-	-	
LC0004	< 13 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 5 (LOQ)	-	-	-	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	< 20 (LOQ)	-	-	-	
LC0009	< 3 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	< 1 (LOQ)	-	-	-	
LC0012	< 2 (LOQ)	-	-	-	
LC0013	< 1 (LOQ)	-	-	-	
LC0014	<8 (LOD)	-	-	-	
LC0015	<2 (LOD)	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 10 (LOQ)	-	-	-	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	-	-	ng/l
Minimum	-	-	ng/l
Maximum	-	-	ng/l
Standard deviation	-	-	ng/l
rel. Standard deviation	-	-	%
n	0	0	-

Graphical presentation of results

Results



Parameter oriented report

P15 B

Benzo[b]fluoranthene

Unit	ng/l
Mean ± CI (99%)	-
Minimum - Maximum	-
Check value ± U	< 3.4 (NG)

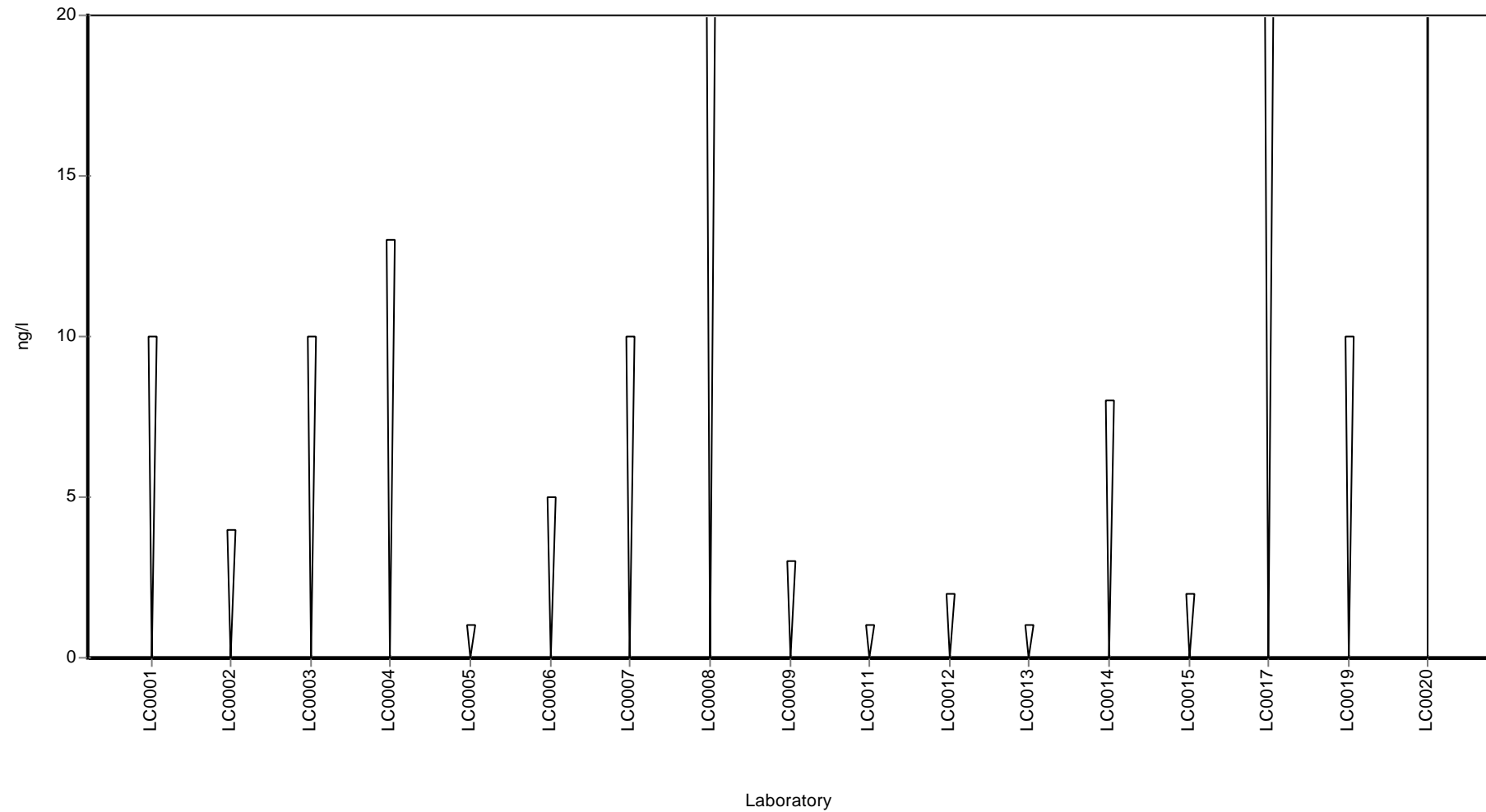
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	< 4 (LOQ)	-	-	-	
LC0003	< 10 (LOQ)	-	-	-	
LC0004	< 13 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 5 (LOQ)	-	-	-	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	< 20 (LOQ)	-	-	-	
LC0009	< 3 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	< 1 (LOQ)	-	-	-	
LC0012	< 2 (LOQ)	-	-	-	
LC0013	< 1 (LOQ)	-	-	-	
LC0014	<8 (LOD)	-	-	-	
LC0015	<2 (LOD)	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 10 (LOQ)	-	-	-	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	-	-	ng/l
Minimum	-	-	ng/l
Maximum	-	-	ng/l
Standard deviation	-	-	ng/l
rel. Standard deviation	-	-	%
n	0	0	-

Graphical presentation of results

Results



Parameter oriented report

P15 A

Benzo[g,h,i]perylene

Unit	ng/l
Mean ± CI (99%)	-
Minimum - Maximum	-
Check value ± U	< 1.9 (LOD)

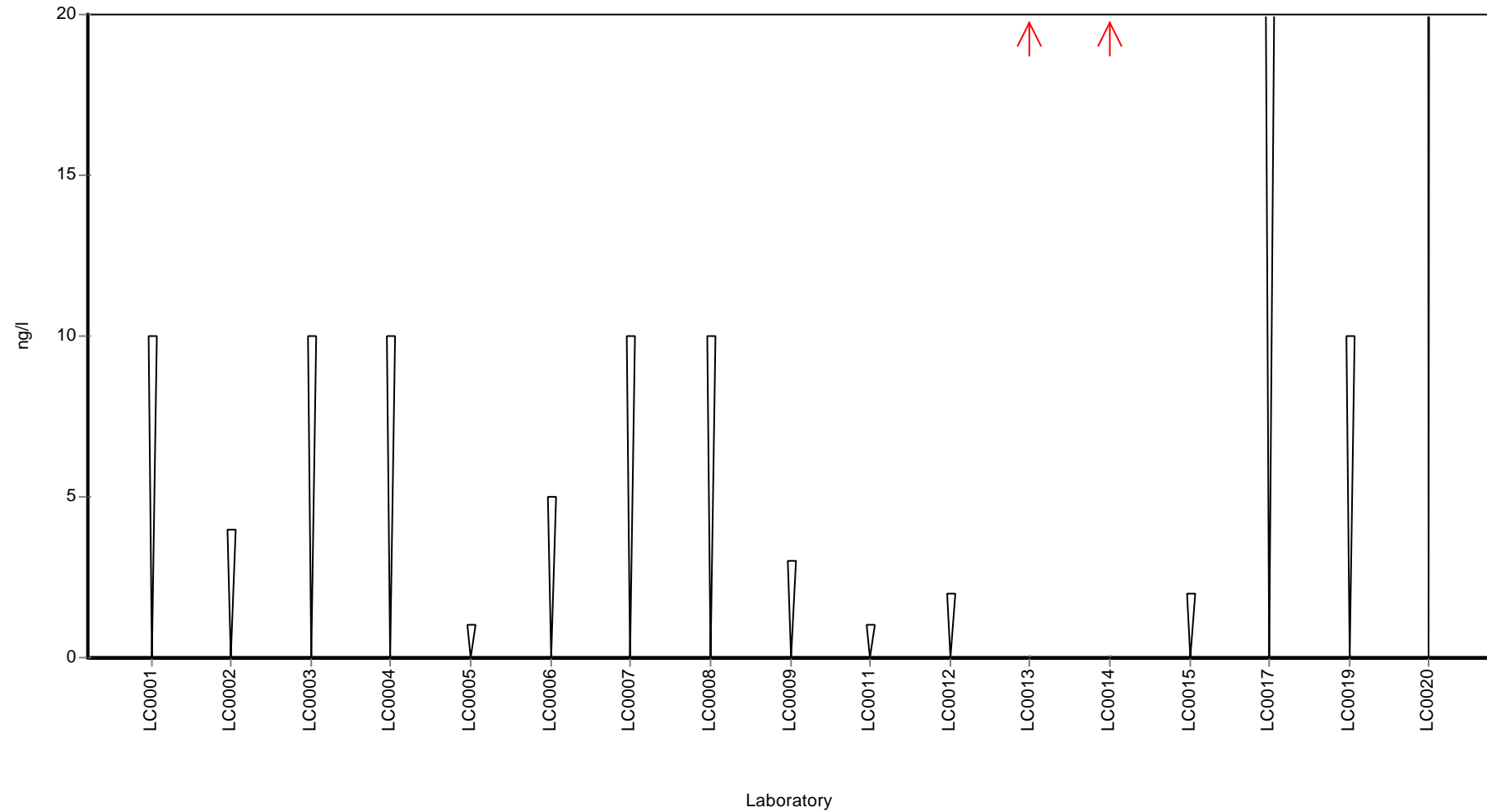
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	< 4 (LOQ)	-	-	-	
LC0003	< 10 (LOQ)	-	-	-	
LC0004	< 10 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 5 (LOQ)	-	-	-	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	< 10 (LOQ)	-	-	-	
LC0009	< 3 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	< 1 (LOQ)	-	-	-	
LC0012	< 2 (LOQ)	-	-	-	
LC0013	21.000	7.000	-	-	FP
LC0014	41.000	14.000	-	-	FP
LC0015	<2 (LOD)	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 10 (LOQ)	-	-	-	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	31 ± 30	-	ng/l
Minimum	21	-	ng/l
Maximum	41	-	ng/l
Standard deviation	14.1	-	ng/l
rel. Standard deviation	45.6	-	%
n	2	-	-

Graphical presentation of results

Results



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15B, Parameter: Benzo[g,h,i]perylene

Parameter oriented report

P15 B

Benzo[g,h,i]perylene

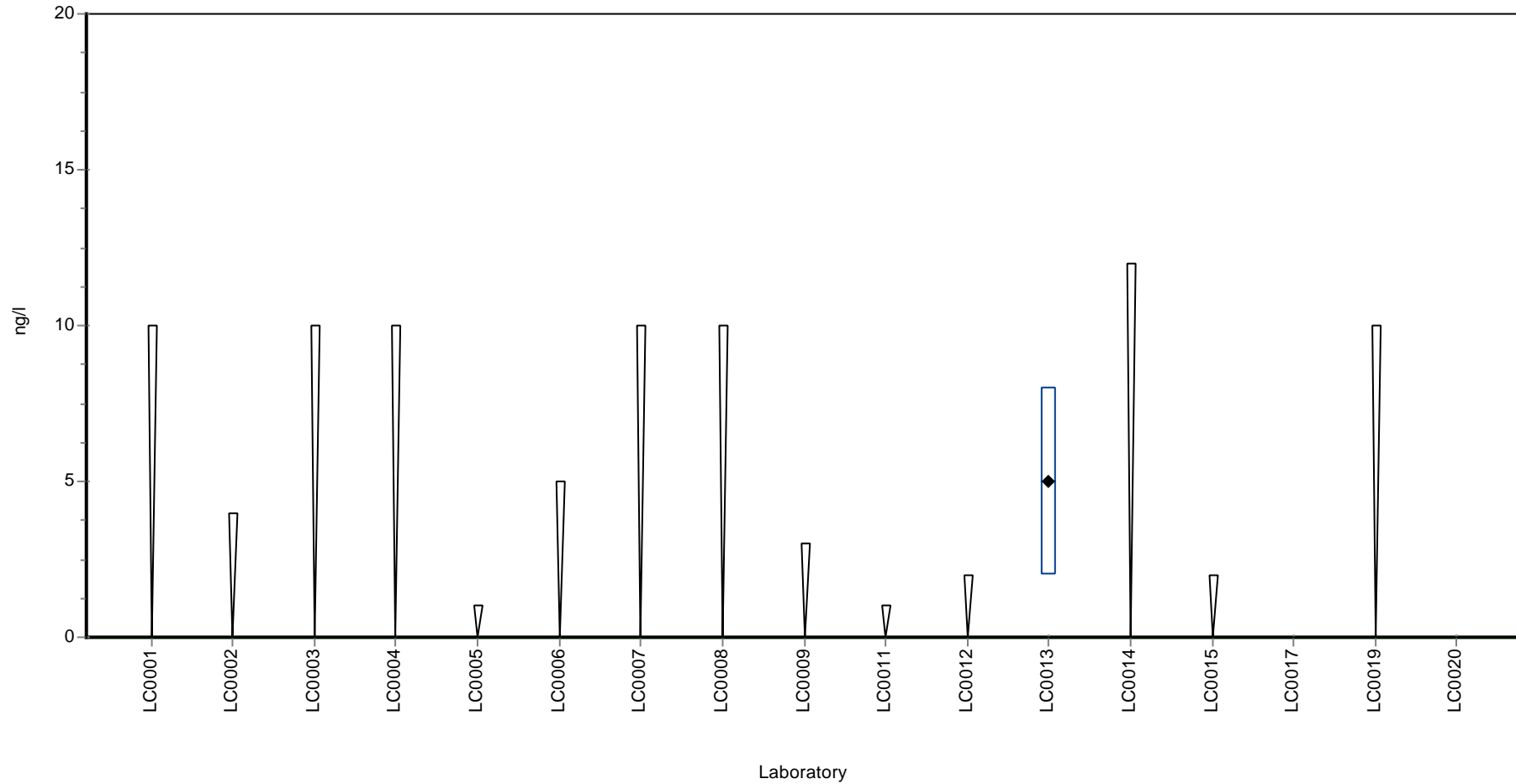
Unit	ng/l
Mean ± CI (99%)	-
Minimum - Maximum	5 - 5
Check value ± U	< 1.9 (LOD)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	< 4 (LOQ)	-	-	-	
LC0003	< 10 (LOQ)	-	-	-	
LC0004	< 10 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 5 (LOQ)	-	-	-	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	< 10 (LOQ)	-	-	-	
LC0009	< 3 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	< 1 (LOQ)	-	-	-	
LC0012	< 2 (LOQ)	-	-	-	
LC0013	5.000	3.000	-	-	
LC0014	<12 (LOD)	-	-	-	
LC0015	<2 (LOD)	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 10 (LOQ)	-	-	-	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	5	-	ng/l
Minimum	5	5	ng/l
Maximum	5	5	ng/l
Standard deviation	-	-	ng/l
rel. Standard deviation	-	-	%
n	1	1	-

Graphical presentation of results
Results



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15A, Parameter: Benzo[k]fluoranthene

Parameter oriented report

P15 A

Benzo[k]fluoranthene

Unit	ng/l
Mean ± CI (99%)	125 ± 27.3
Minimum - Maximum	44 - 189
Check value ± U	99 ± 16.4

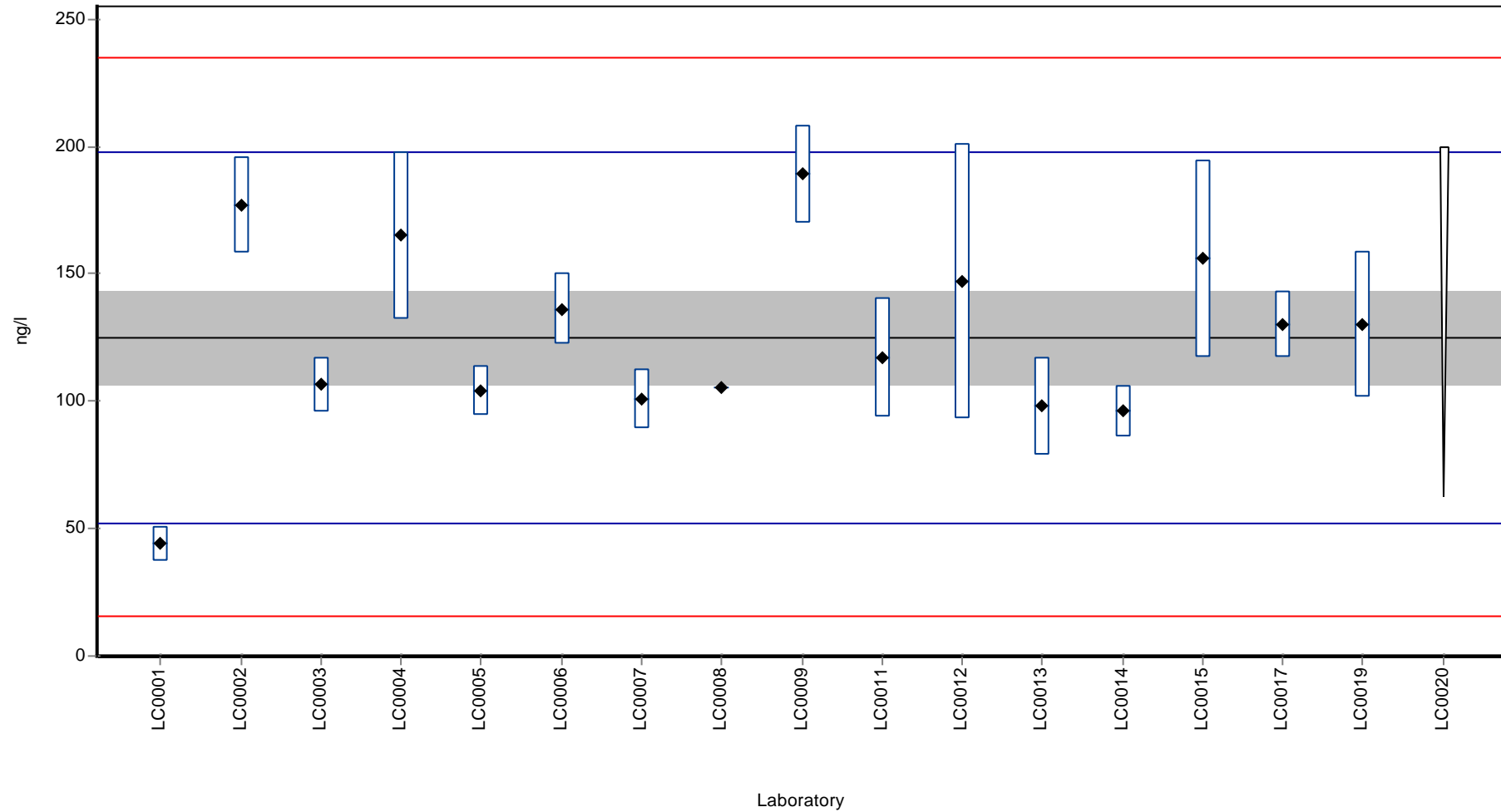
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	44.000	6.600	35.2	-2.2	
LC0002	177.000	19.000	141.4	1.4	
LC0003	106.500	10.600	85.1	-0.5	
LC0004	165.000	33.000	131.9	1.1	
LC0005	104.000	10.000	83.1	-0.6	
LC0006	136.100	14.000	108.8	0.3	
LC0007	100.800	12.000	80.6	-0.7	
LC0008	105.690	0.0013	84.5	-0.5	
LC0009	189.000	18.900	151.0	1.8	
LC0010	-	-	-	-	
LC0011	117.000	23.400	93.5	-0.2	
LC0012	147.000	54.000	117.5	0.6	
LC0013	98.000	19.000	78.3	-0.7	
LC0014	96.000	10.000	76.7	-0.8	
LC0015	155.800	38.900	124.5	0.8	
LC0016	-	-	-	-	
LC0017	130.000	13.000	103.9	0.1	
LC0018	-	-	-	-	
LC0019	130.300	28.700	104.1	0.1	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

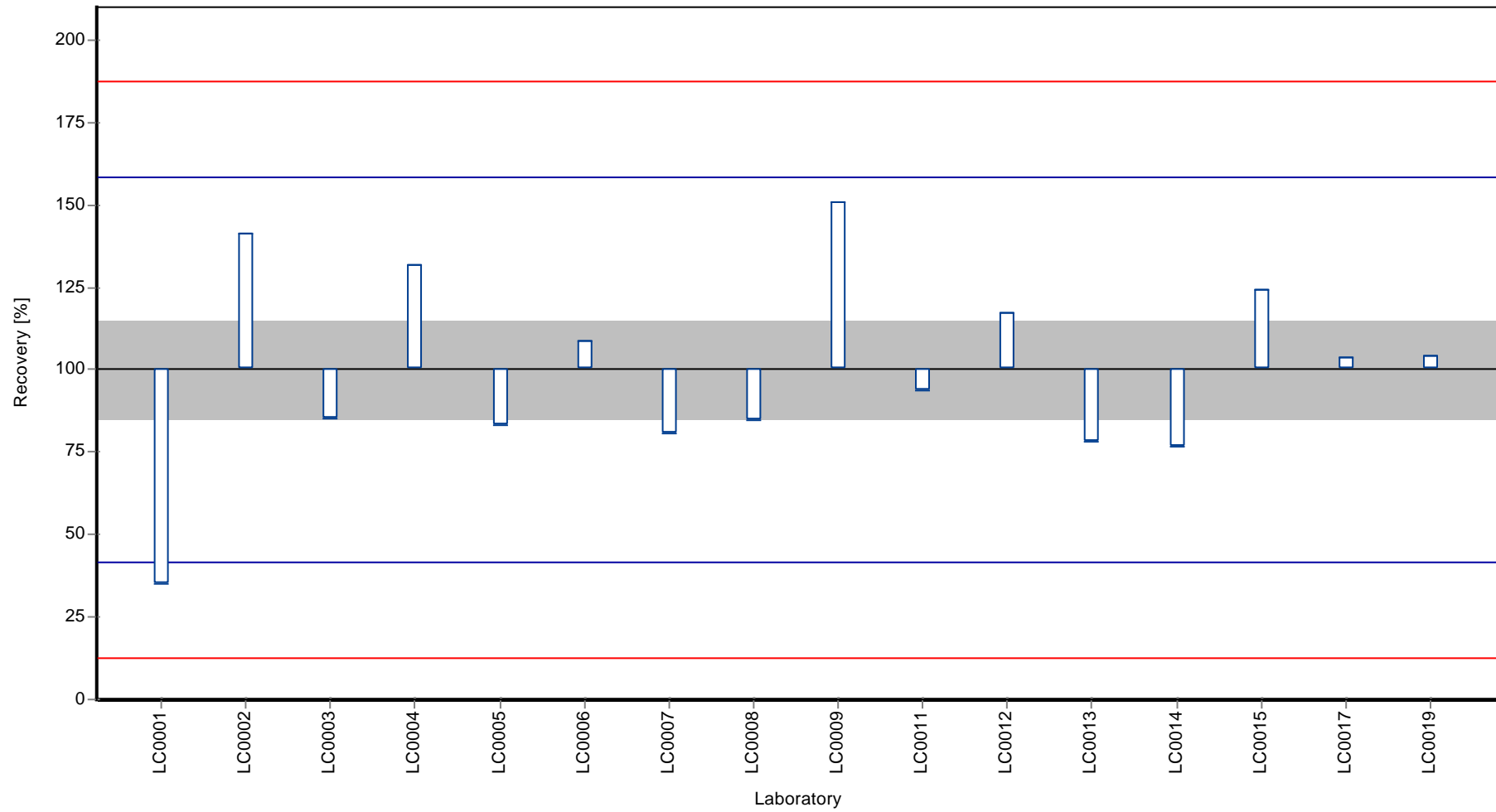
	all results	w ithout outliers	Unit
Mean ± CI (99%)	125 ± 27.3	125 ± 27.3	ng/l
Minimum	44	44	ng/l
Maximum	189	189	ng/l
Standard deviation	36.5	36.5	ng/l
rel. Standard deviation	29.1	29.1	%
n	16	16	-

Graphical presentation of results

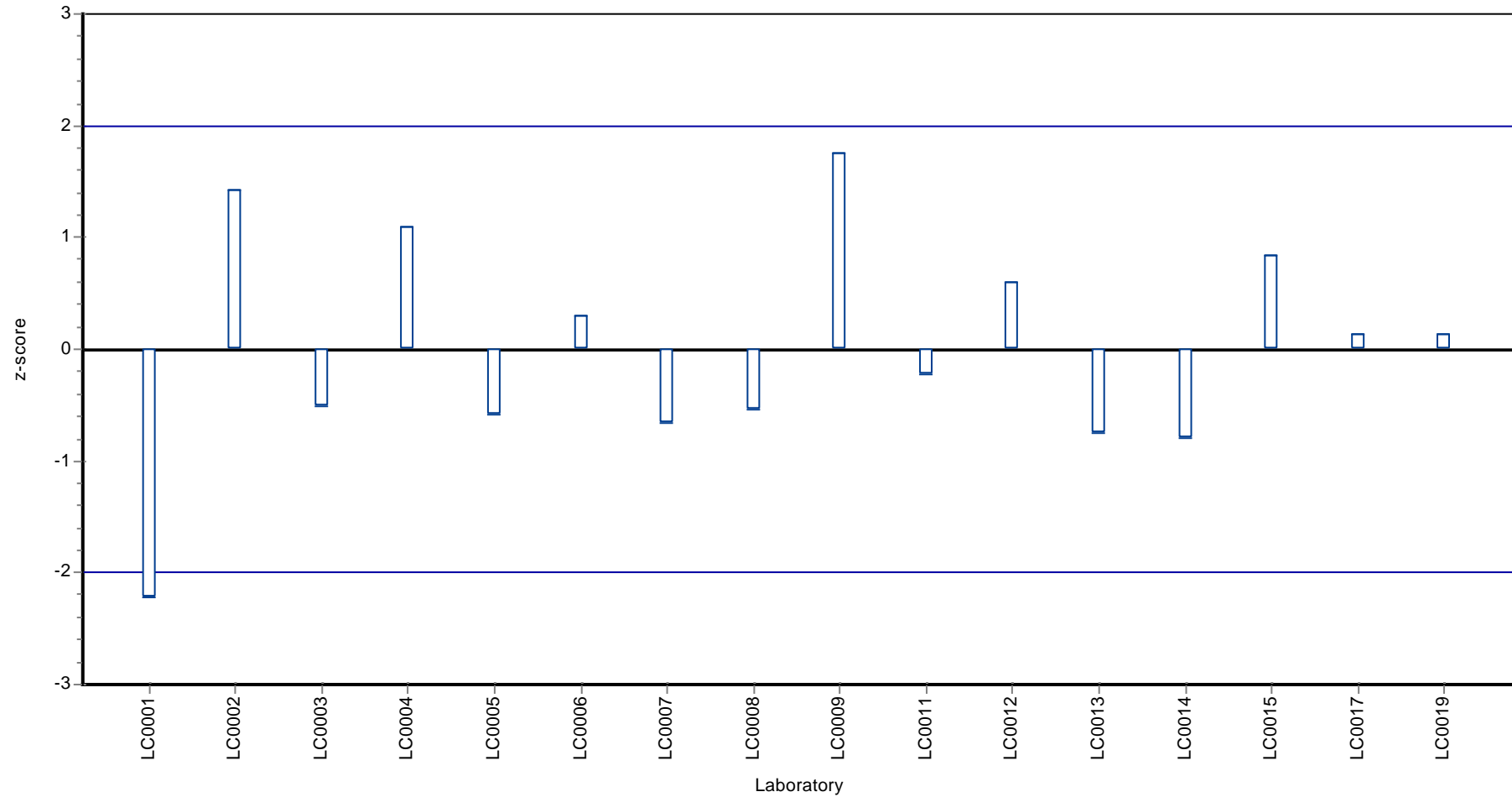
Results



Recovery rate



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15B, Parameter: Benzo[k]fluoranthene

Parameter oriented report

P15 B

Benzo[k]fluoranthene

Unit	ng/l
Mean ± CI (99%)	7.69 ± 2.76
Minimum - Maximum	4 - 12.1
Check value ± U	< 8.5 (LOQ)

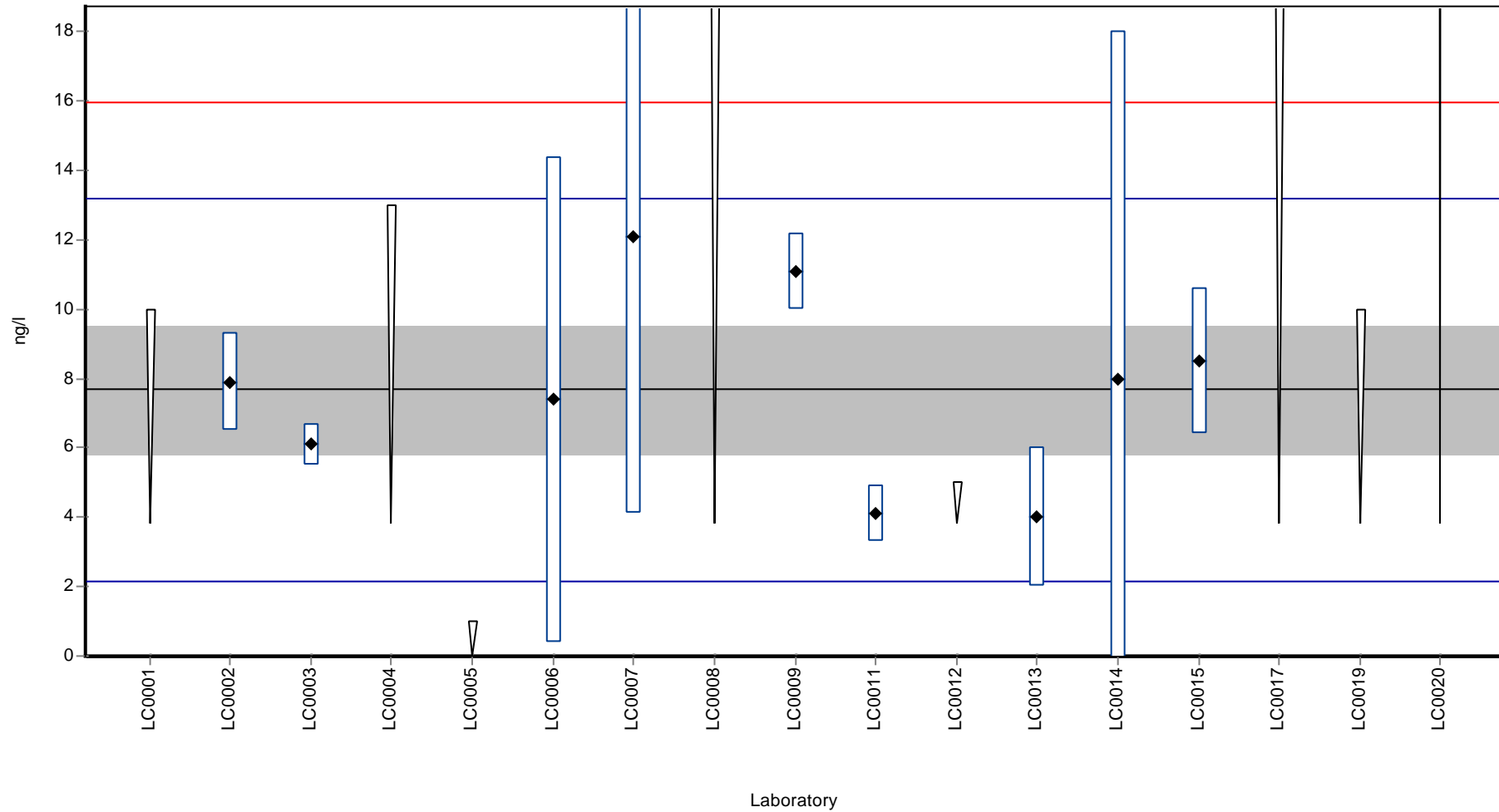
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	7.900	1.400	102.7	0.1	
LC0003	6.100	0.600	79.3	-0.6	
LC0004	< 13 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	7.400	7.000	96.2	-0.1	
LC0007	12.100	8.000	157.4	1.6	
LC0008	< 20 (LOQ)	-	-	-	
LC0009	11.100	1.110	144.4	1.2	
LC0010	-	-	-	-	
LC0011	4.100	0.820	53.3	-1.3	
LC0012	< 5 (LOQ)	-	-	-	
LC0013	4.000	2.000	52.0	-1.3	
LC0014	8.000	10.000	104.0	0.1	
LC0015	8.500	2.100	110.5	0.3	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 10 (LOQ)	-	-	-	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

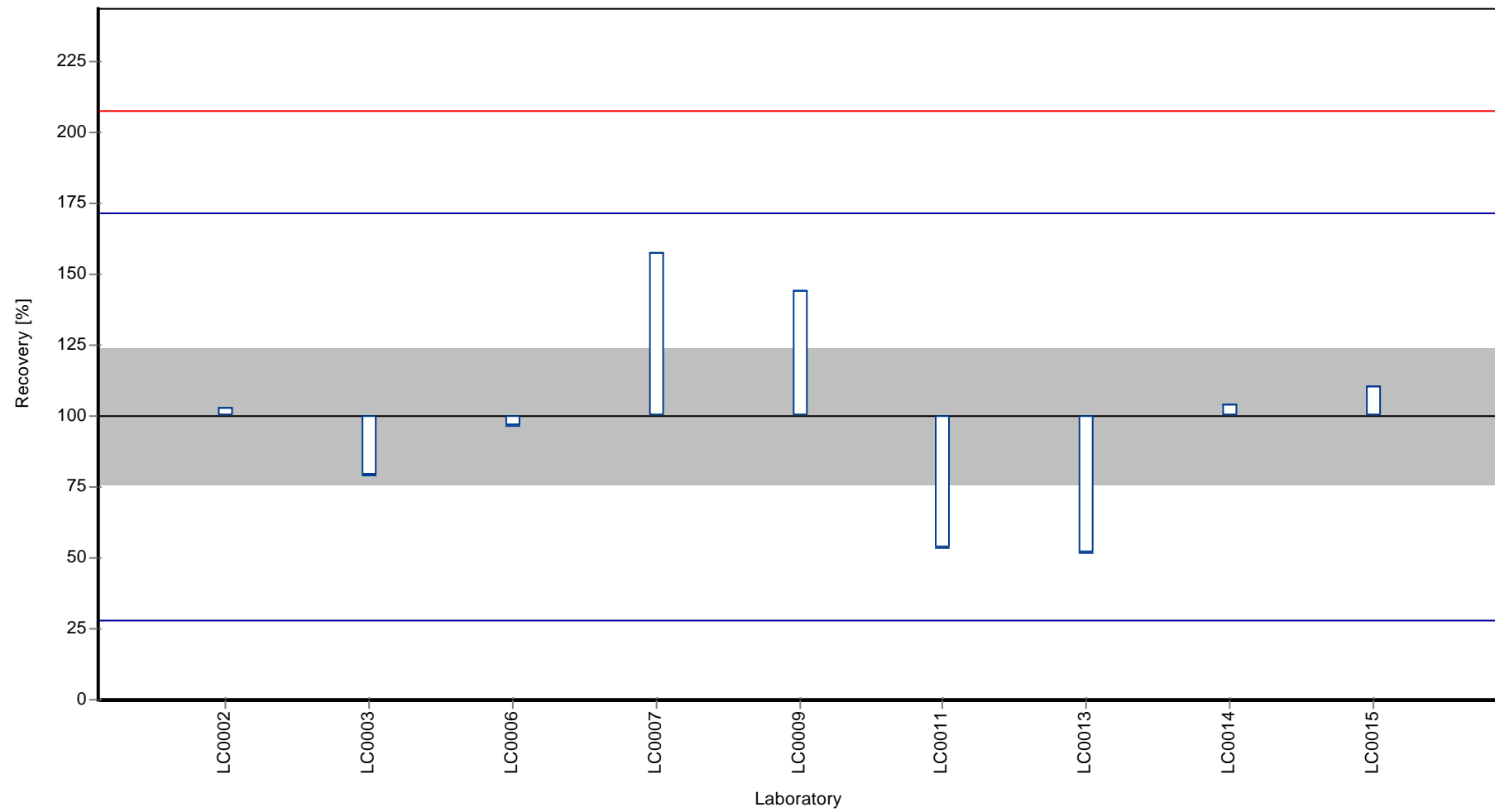
	all results	w ithout outliers	Unit
Mean ± CI (99%)	7.69 ± 2.76	7.69 ± 2.76	ng/l
Minimum	4	4	ng/l
Maximum	12.1	12.1	ng/l
Standard deviation	2.76	2.76	ng/l
rel. Standard deviation	35.9	35.9	%
n	9	9	-

Graphical presentation of results

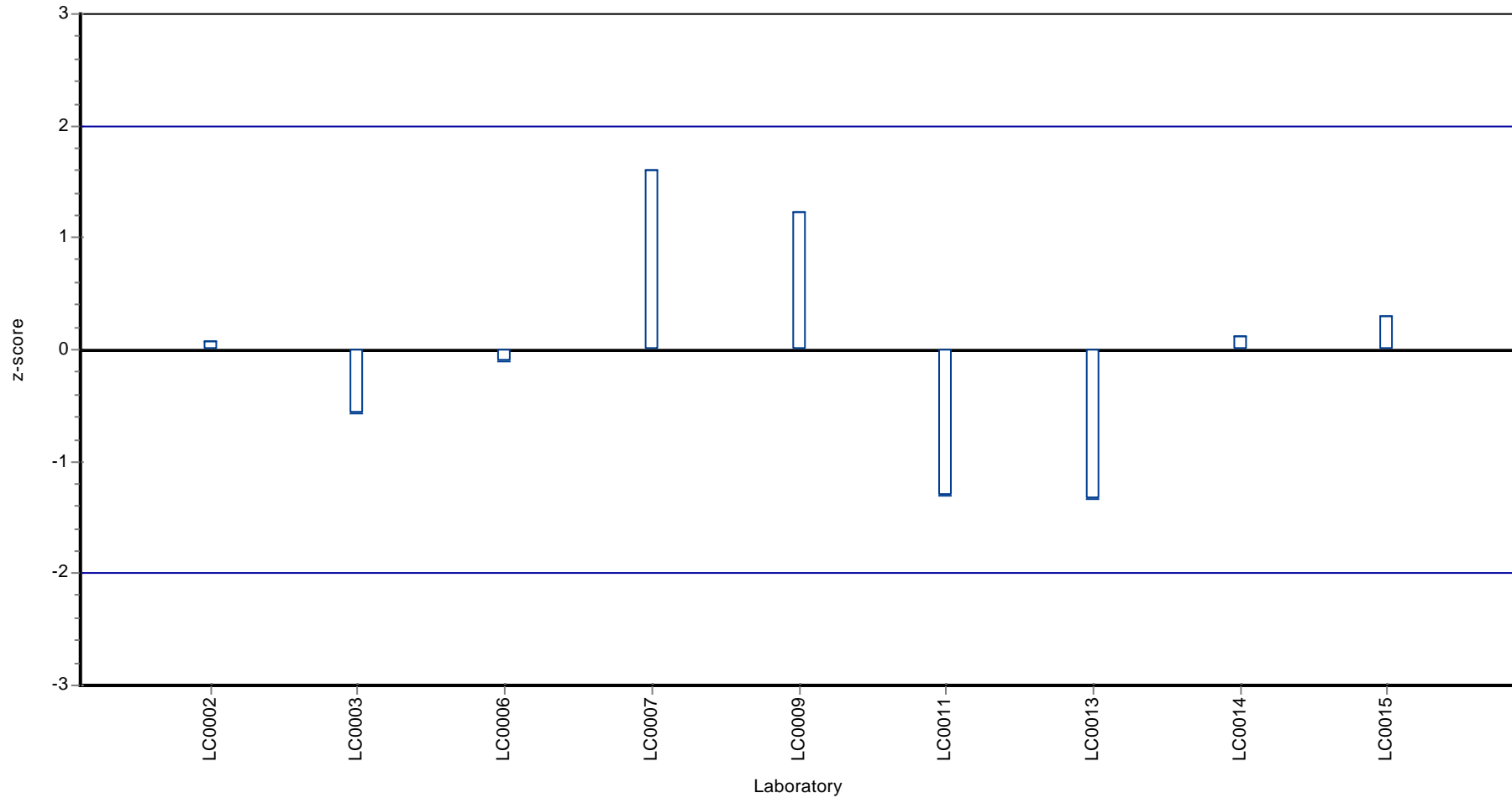
Results



Recovery rate



Z-score



Parameter oriented report

P15 A

Chrysene

Unit	ng/l
Mean ± CI (99%)	109 ± 16
Minimum - Maximum	72.1 - 140
Check value ± U	87 ± 17

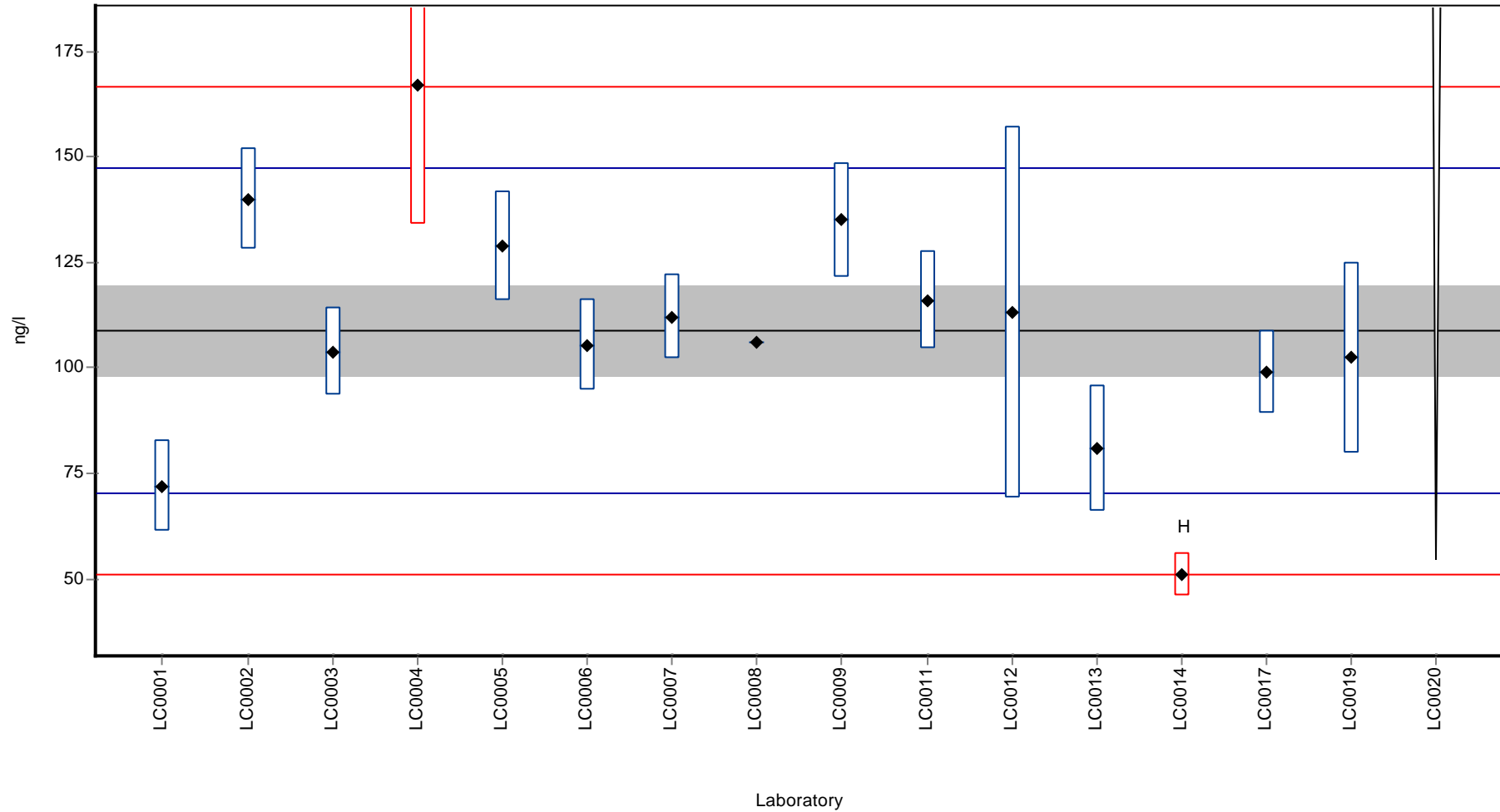
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	72.100	10.800	66.2	-1.9	
LC0002	140.000	12.000	128.6	1.6	
LC0003	103.800	10.400	95.4	-0.3	
LC0004	167.000	33.000	153.4	3.0	H
LC0005	129.000	13.000	118.5	1.0	
LC0006	105.500	11.000	96.9	-0.2	
LC0007	112.100	10.000	103.0	0.2	
LC0008	106.020	0.0023	97.4	-0.1	
LC0009	135.000	13.500	124.0	1.4	
LC0010	-	-	-	-	
LC0011	116.000	11.600	106.6	0.4	
LC0012	113.000	44.000	103.8	0.2	
LC0013	81.000	15.000	74.4	-1.4	
LC0014	51.000	5.000	46.9	-3.0	H
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	99.000	9.900	91.0	-0.5	
LC0018	-	-	-	-	
LC0019	102.400	22.500	94.1	-0.3	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

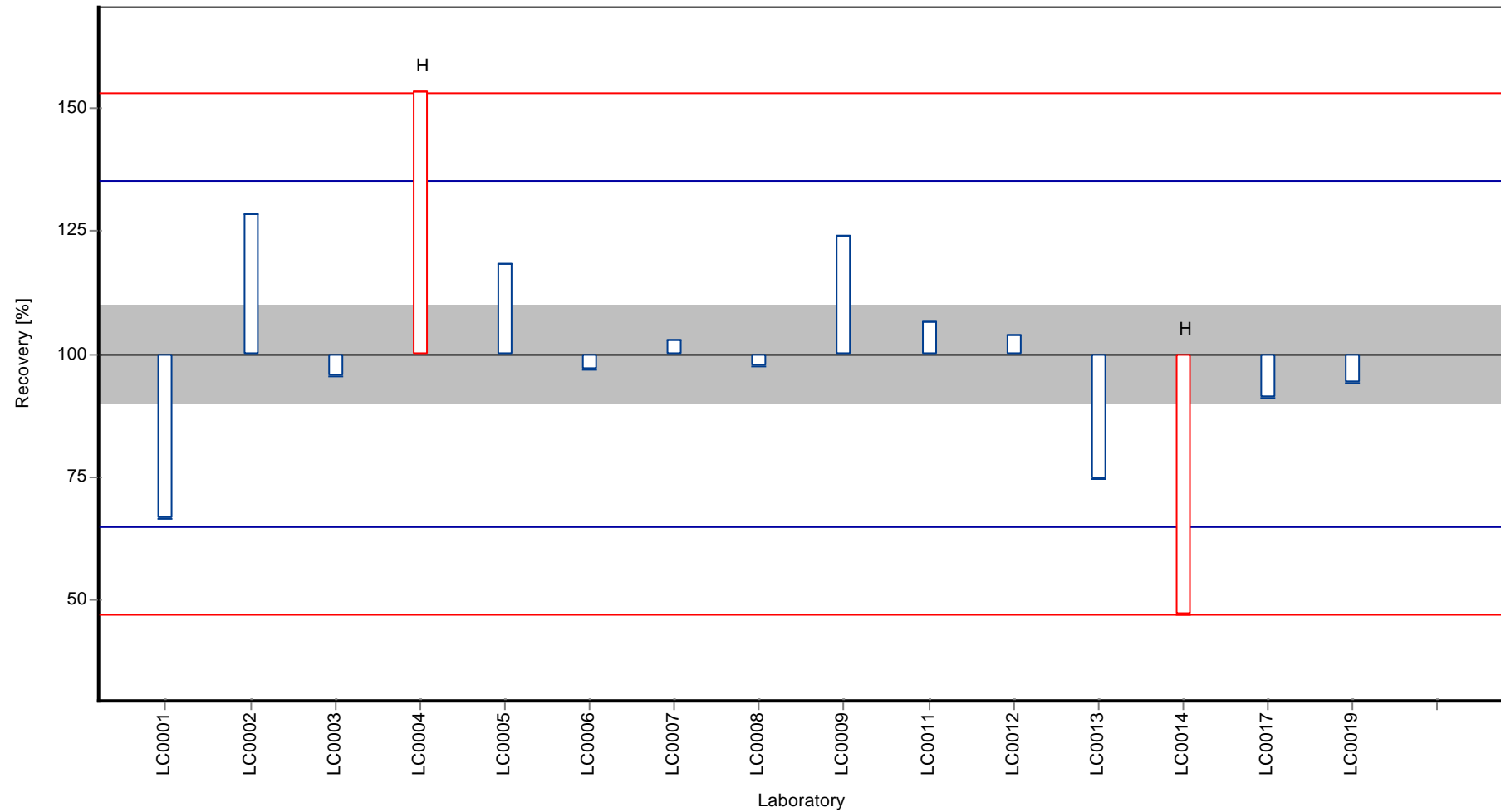
	all results	w ithout outliers	Unit
Mean ± CI (99%)	109 ± 21.9	109 ± 16	ng/l
Minimum	51	72.1	ng/l
Maximum	167	140	ng/l
Standard deviation	28.3	19.3	ng/l
rel. Standard deviation	26	17.7	%
n	15	13	-

H

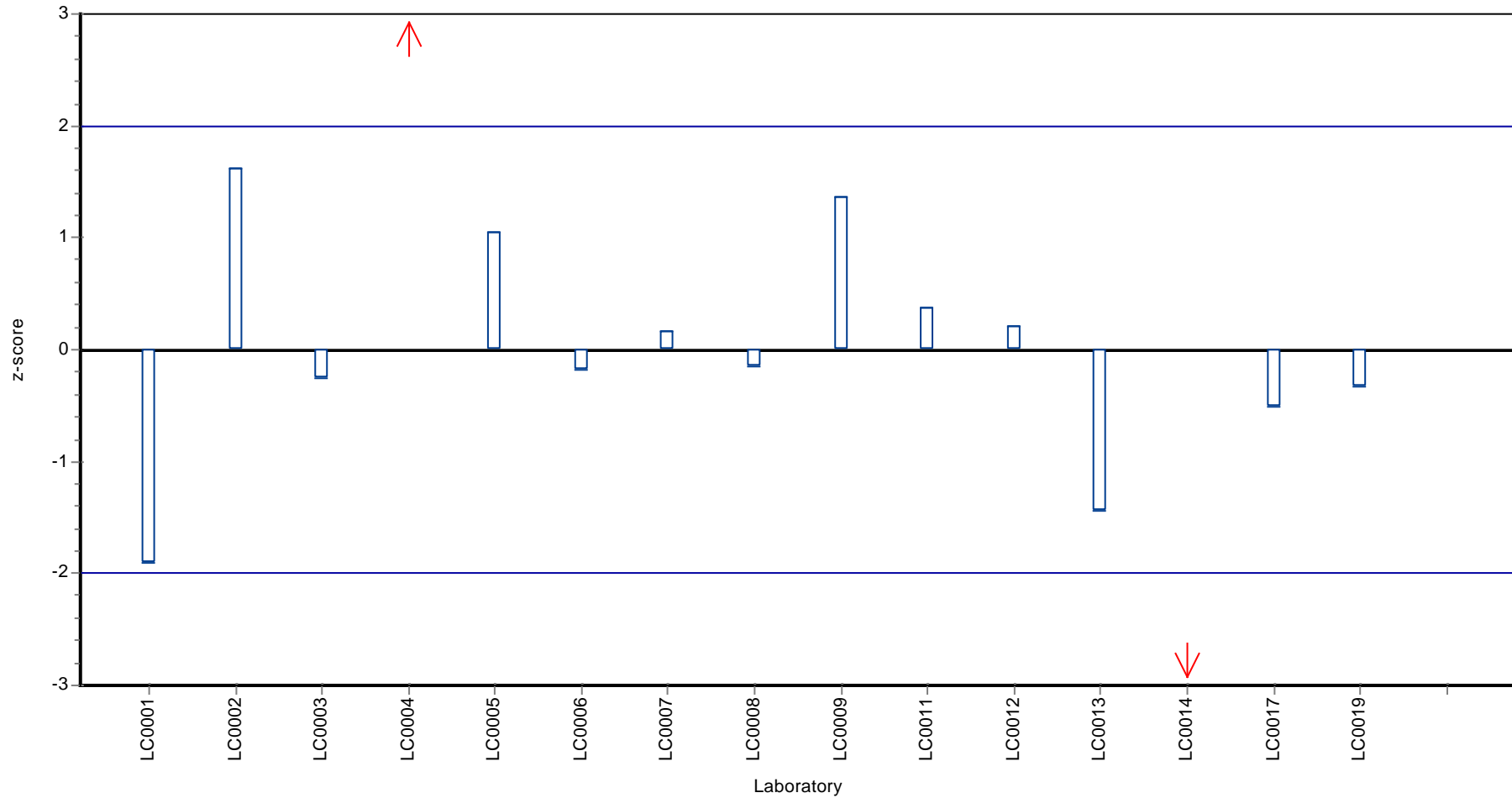
Graphical presentation of results
Results



Recovery rate



Z-score



Parameter oriented report

P15 B

Chrysene

Unit	ng/l
Mean ± CI (99%)	-
Minimum - Maximum	2 - 4.5
Check value ± U	< 2.7 (LOD)

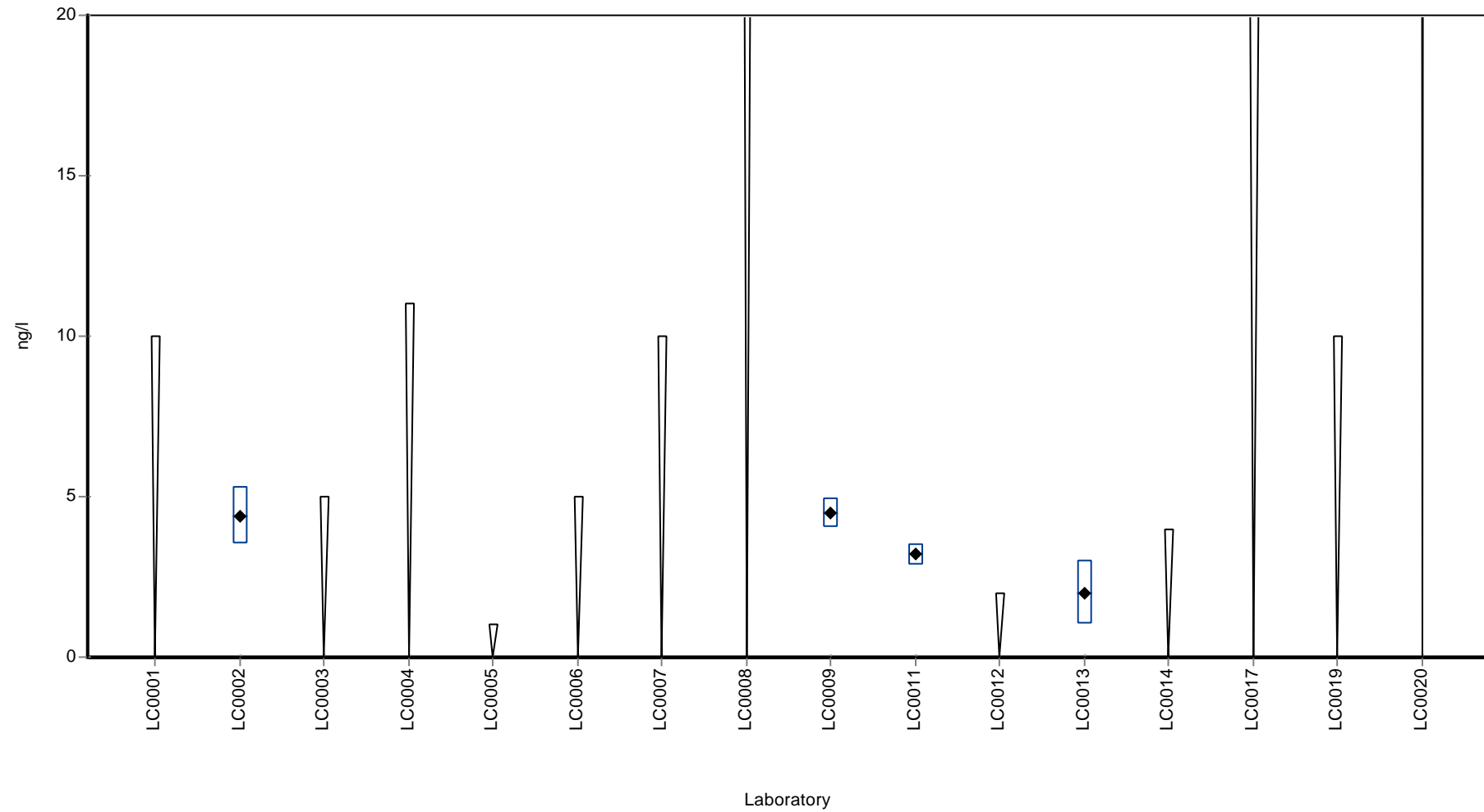
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	4.400	0.900	-	-	
LC0003	< 5 (LOQ)	-	-	-	
LC0004	< 11 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 5 (LOQ)	-	-	-	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	< 30 (LOQ)	-	-	-	
LC0009	4.500	0.450	-	-	
LC0010	-	-	-	-	
LC0011	3.200	0.320	-	-	
LC0012	< 2 (LOQ)	-	-	-	
LC0013	2.000	1.000	-	-	
LC0014	<4 (LOD)	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 10 (LOQ)	-	-	-	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	3.52 ± 1.76	-	ng/l
Minimum	2	2	ng/l
Maximum	4.5	4.5	ng/l
Standard deviation	1.18	-	ng/l
rel. Standard deviation	33.4	-	%
n	4	4	-

Graphical presentation of results

Results



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15A, Parameter: Dibenzo[a,h]anthracene

Parameter oriented report

P15 A

Dibenzo[a,h]anthracene

Unit	ng/l
Mean ± CI (99%)	119 ± 22.5
Minimum - Maximum	76 - 168
Check value ± U	44 ± 13*

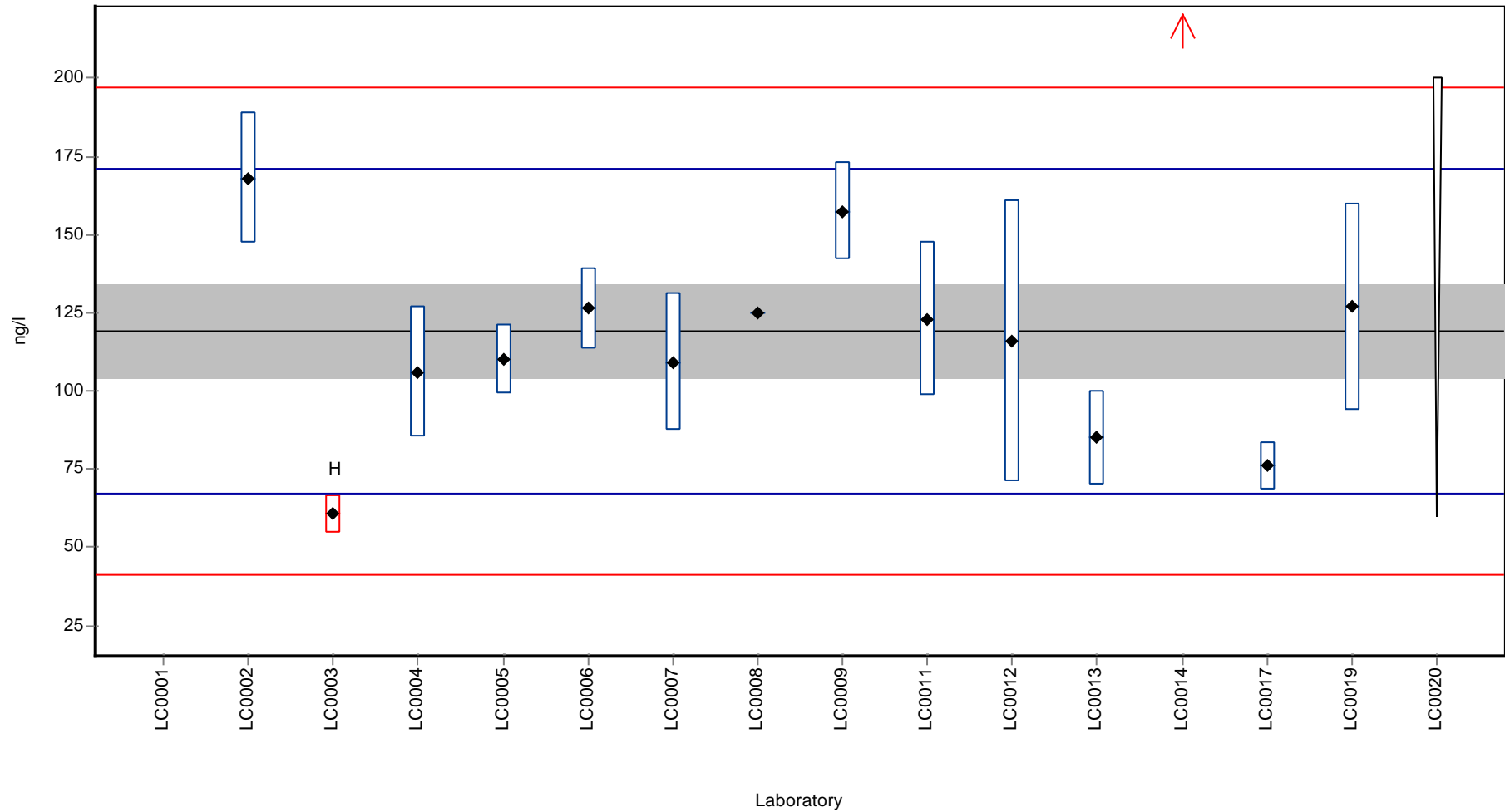
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	168.000	21.000	141.0	1.9	
LC0003	60.800	6.100	51.0	-2.2	H
LC0004	106.000	21.000	89.0	-0.5	
LC0005	110.000	11.000	92.3	-0.4	
LC0006	126.500	13.000	106.2	0.3	
LC0007	109.300	22.000	91.8	-0.4	
LC0008	125.210	0.0102	105.1	0.2	
LC0009	157.500	15.750	132.2	1.5	
LC0010	-	-	-	-	
LC0011	123.000	24.600	103.3	0.1	
LC0012	116.000	45.000	97.4	-0.1	
LC0013	85.000	15.000	71.4	-1.3	
LC0014	574.000	8.000	481.9	17.5	H
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	76.000	7.600	63.8	-1.7	
LC0018	-	-	-	-	
LC0019	126.900	33.000	106.5	0.3	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

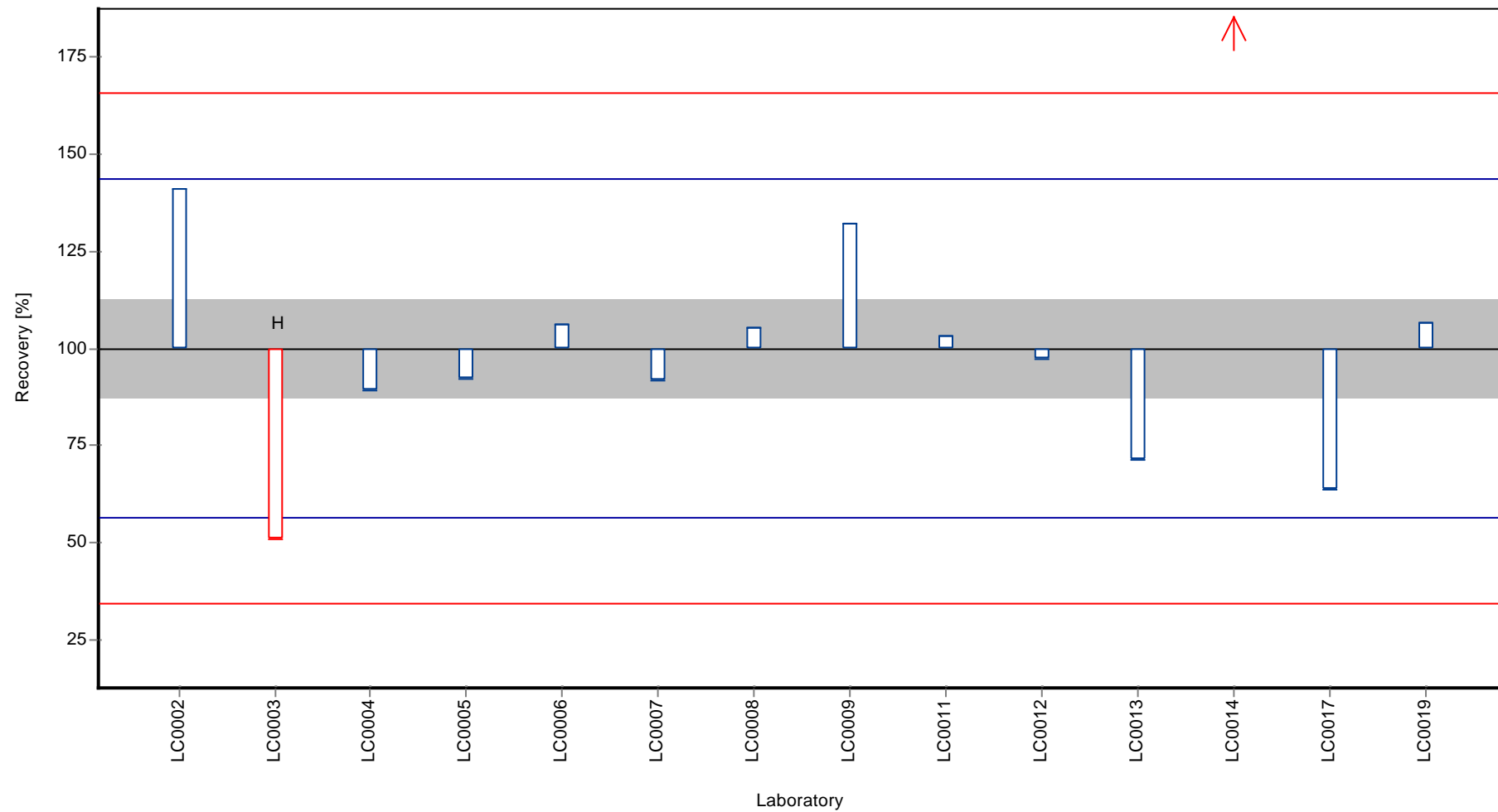
	all results	w ithout outliers	Unit
Mean ± CI (99%)	147 ± 101	119 ± 22.5	ng/l
Minimum	60.8	76	ng/l
Maximum	574	168	ng/l
Standard deviation	126	26	ng/l
rel. Standard deviation	85.5	21.8	%
n	14	12	-

* The value, which is too low compared to the target value, was confirmed by a repeated measurement.

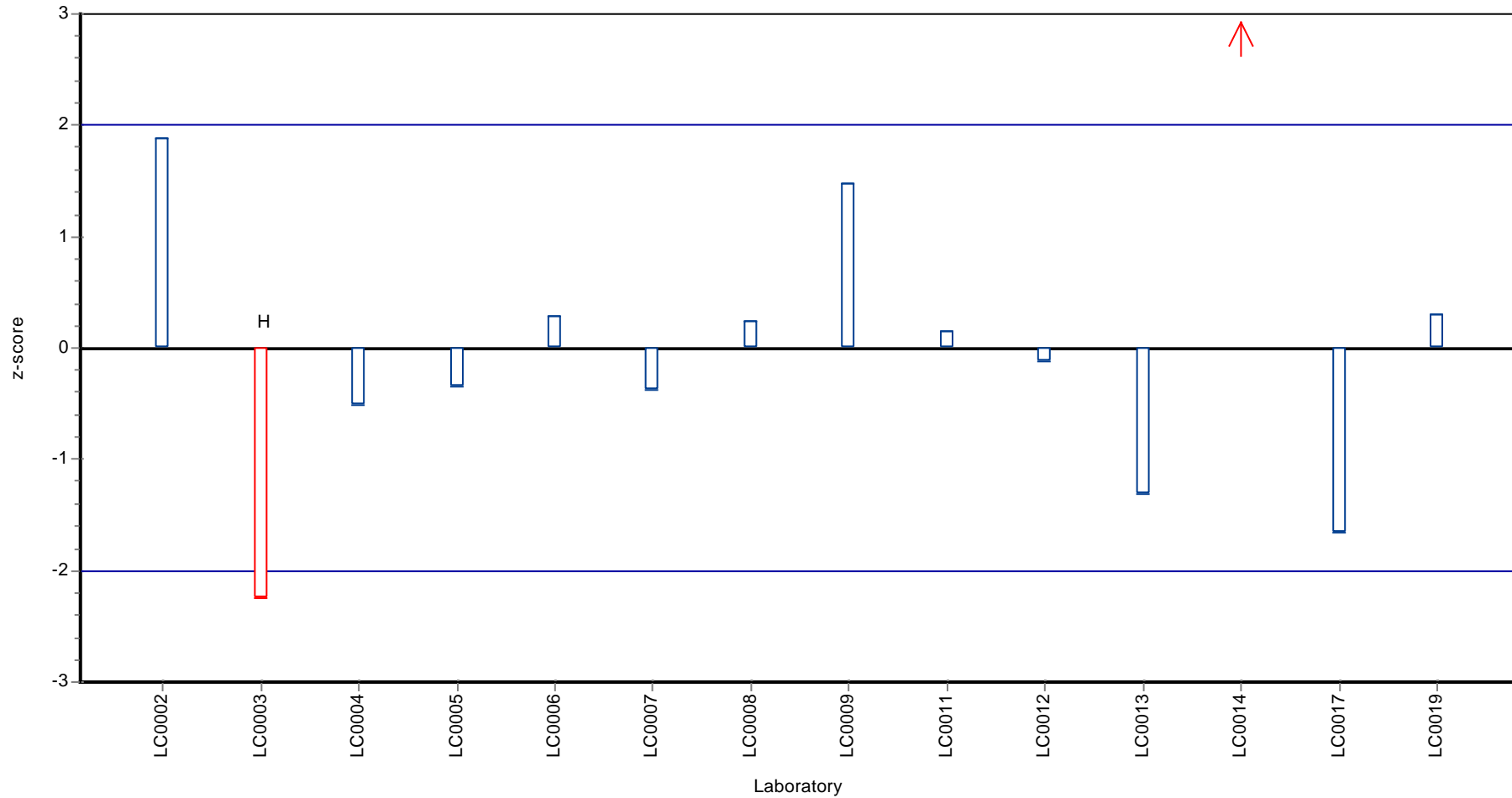
Graphical presentation of results
Results



Recovery rate



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15B, Parameter: Dibenzo[a,h]anthracene

Parameter oriented report

P15 B

Dibenzo[a,h]anthracene

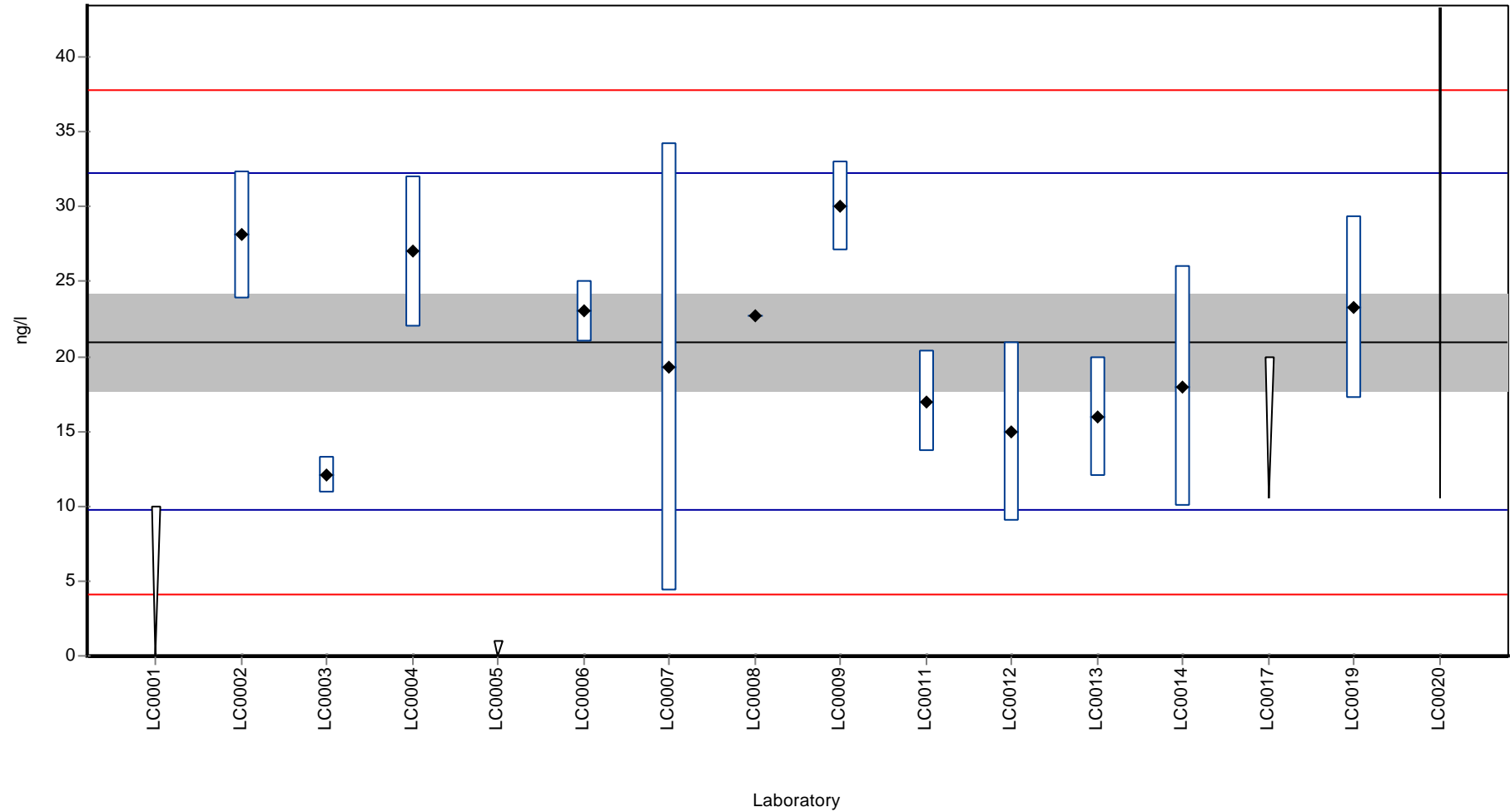
Unit	ng/l
Mean ± CI (99%)	21 ± 4.87
Minimum - Maximum	12.1 - 30
Check value ± U	15 ± 16.3

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	28.100	4.300	134.1	1.3	
LC0003	12.100	1.200	57.7	-1.6	
LC0004	27.000	5.000	128.8	1.1	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	23.000	2.000	109.7	0.4	
LC0007	19.300	15.000	92.1	-0.3	
LC0008	22.720	0.007	108.4	0.3	
LC0009	30.000	3.000	143.1	1.6	
LC0010	-	-	-	-	
LC0011	17.000	3.400	81.1	-0.7	
LC0012	15.000	6.000	71.6	-1.1	
LC0013	16.000	4.000	76.3	-0.9	
LC0014	18.000	8.000	85.9	-0.5	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	23.300	6.100	111.2	0.4	
LC0020	< 200 (LOQ)	-	-	-	

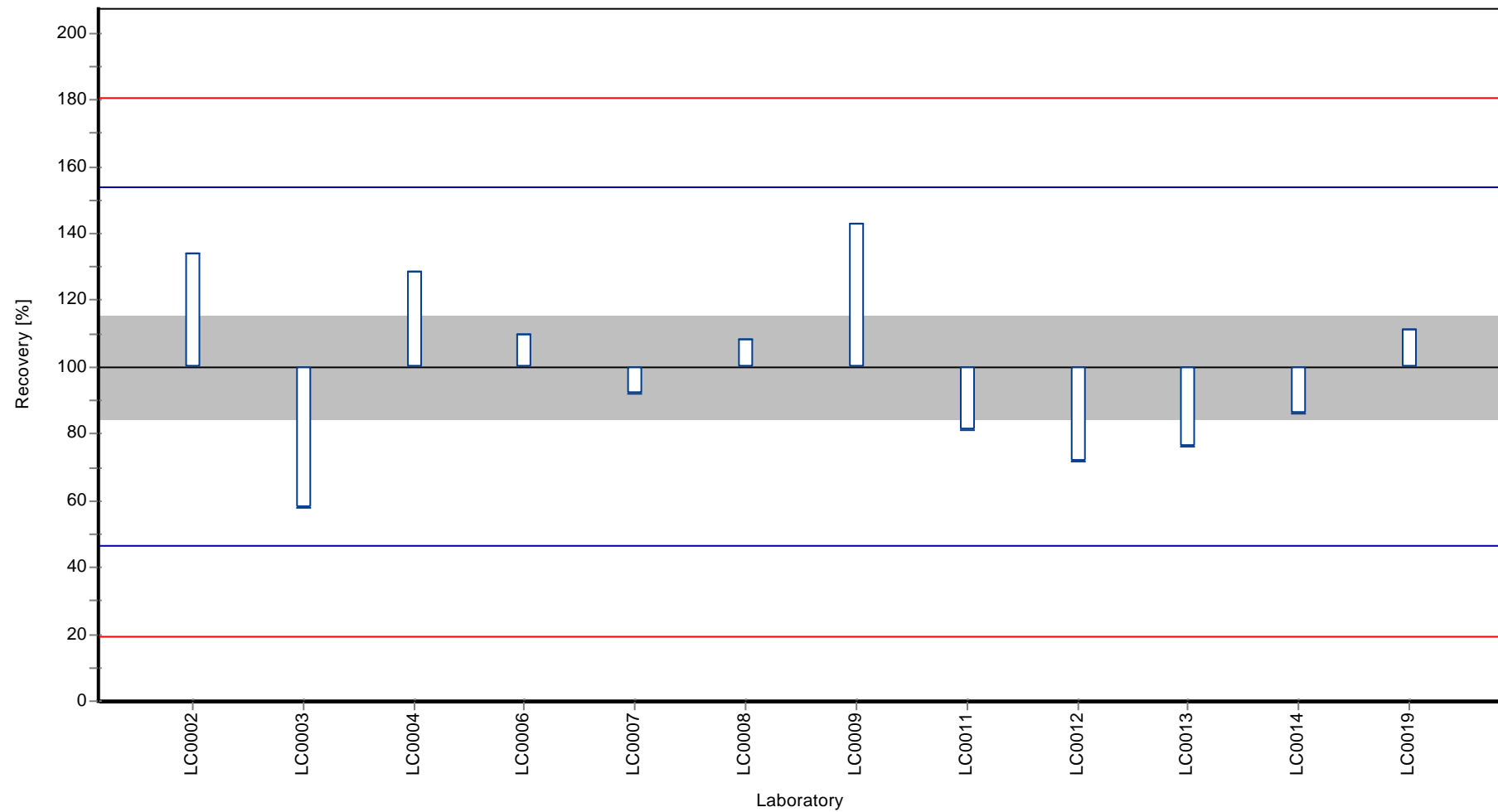
Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	21 ± 4.87	21 ± 4.87	ng/l
Minimum	12.1	12.1	ng/l
Maximum	30	30	ng/l
Standard deviation	5.62	5.62	ng/l
rel. Standard deviation	26.8	26.8	%
n	12	12	-

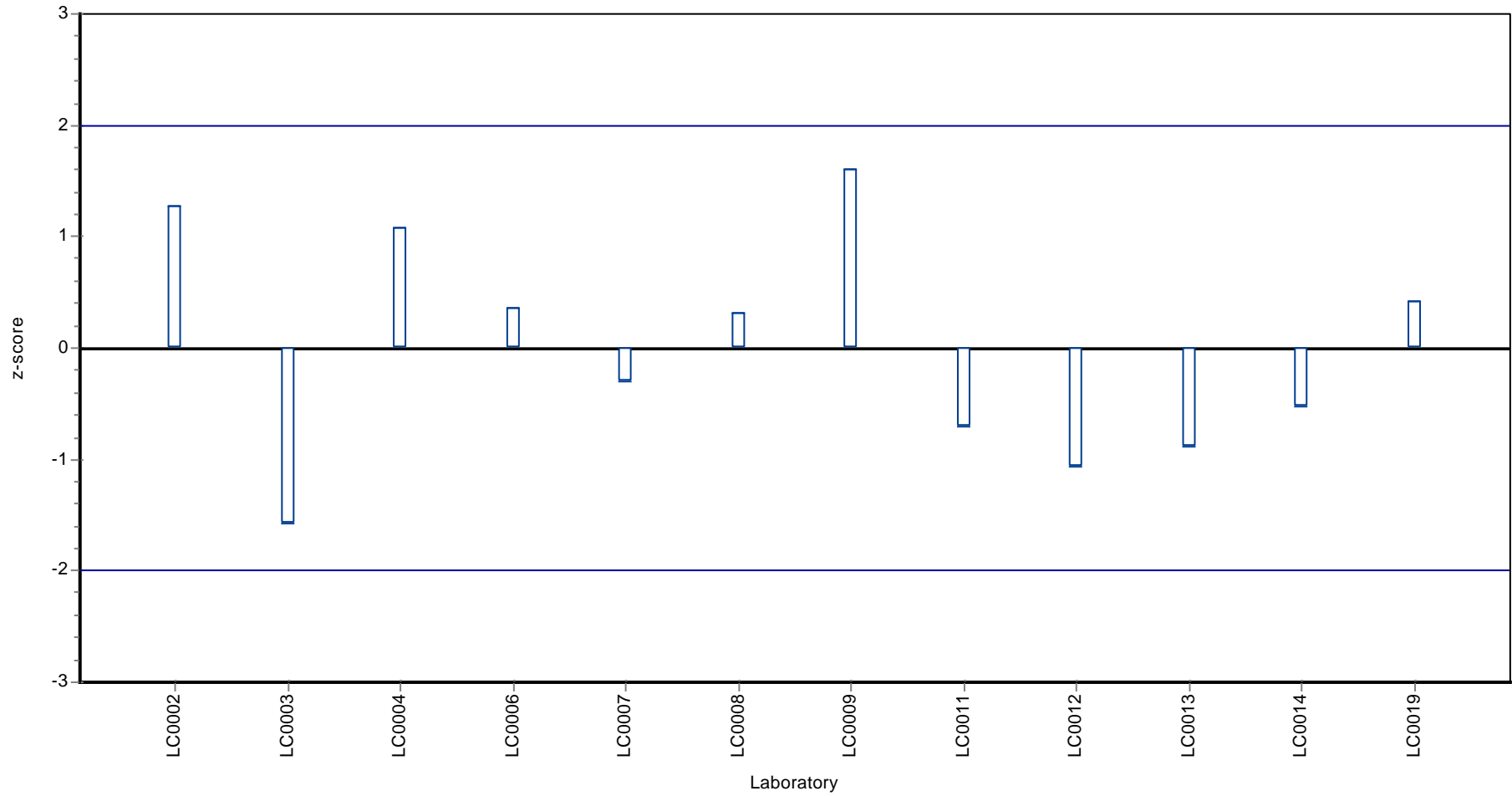
Graphical presentation of results
Results



Recovery rate



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15A, Parameter: Fluoranthene

Parameter oriented report

P15 A

Fluoranthene

Unit	ng/l
Mean ± CI (99%)	55.4 ± 6.72
Minimum - Maximum	42.4 - 73
Check value ± U	46 ± 4.8

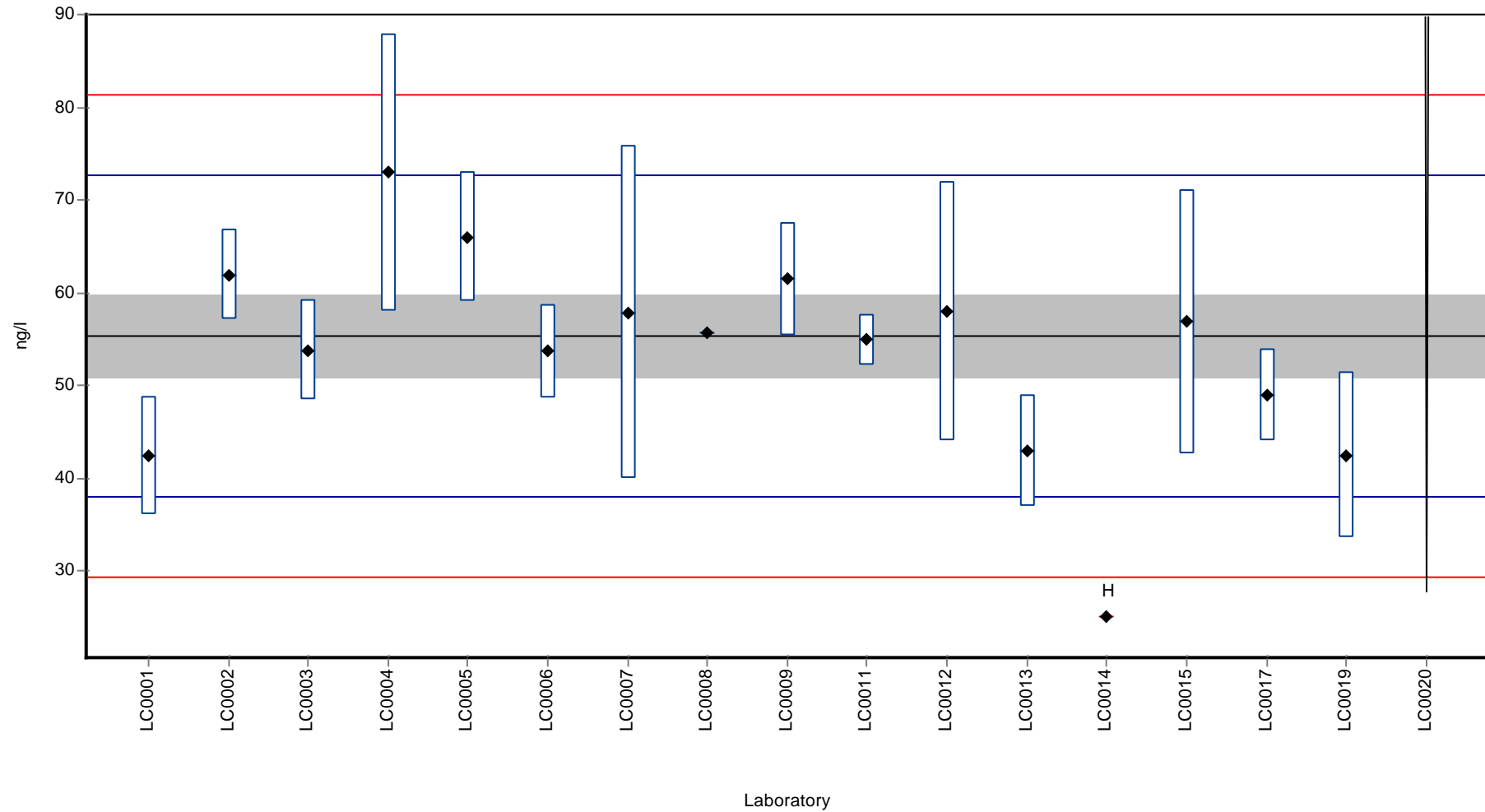
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	42.400	6.400	76.6	-1.5	
LC0002	62.000	4.900	112.0	0.8	
LC0003	53.800	5.400	97.2	-0.2	
LC0004	73.000	15.000	131.9	2.0	
LC0005	66.000	7.000	119.2	1.2	
LC0006	53.700	5.000	97.0	-0.2	
LC0007	57.900	18.000	104.6	0.3	
LC0008	55.750	0.0023	100.7	0.0	
LC0009	61.500	6.150	111.1	0.7	
LC0010	-	-	-	-	
LC0011	55.000	2.750	99.3	0.0	
LC0012	58.000	14.000	104.8	0.3	
LC0013	43.000	6.000	77.7	-1.4	
LC0014	25.000	-	45.2	-3.5	H
LC0015	56.900	14.200	102.8	0.2	
LC0016	-	-	-	-	
LC0017	49.000	4.900	88.5	-0.7	
LC0018	-	-	-	-	
LC0019	42.500	8.900	76.8	-1.5	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

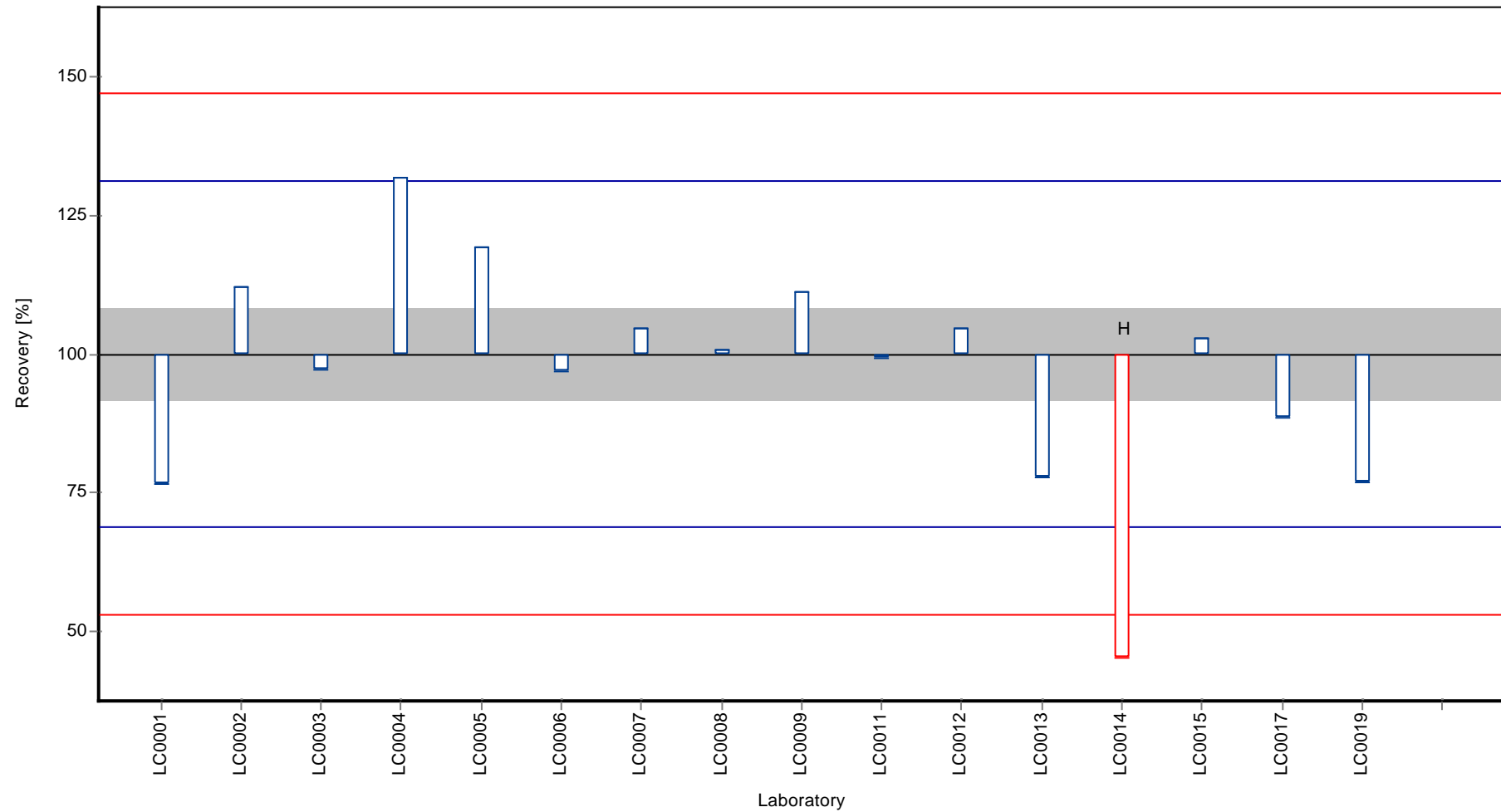
	all results	w ithout outliers	Unit
Mean ± CI (99%)	53.5 ± 8.48	55.4 ± 6.72	ng/l
Minimum	25	42.4	ng/l
Maximum	73	73	ng/l
Standard deviation	11.3	8.68	ng/l
rel. Standard deviation	21.2	15.7	%
n	16	15	-

Graphical presentation of results

Results



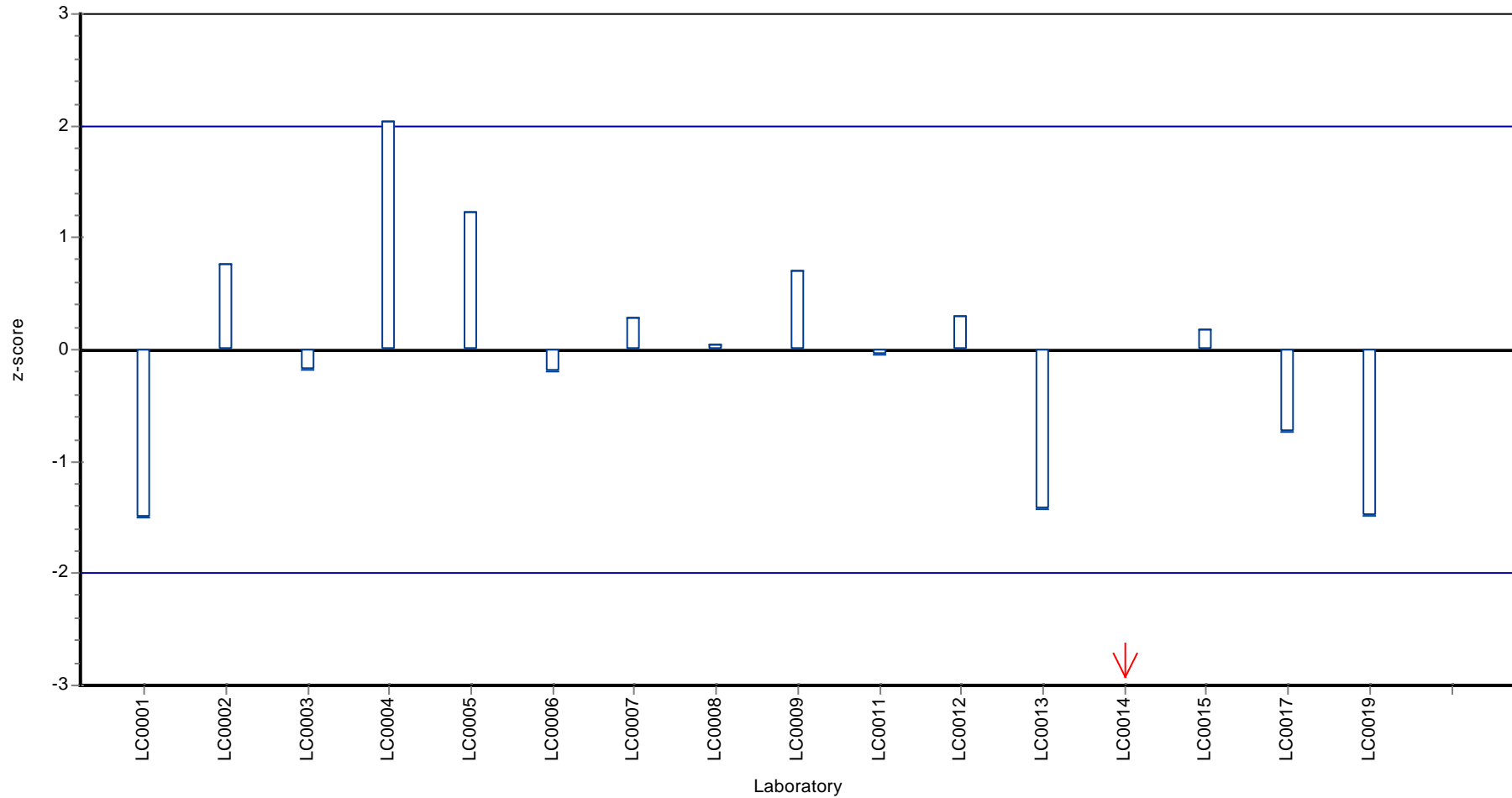
Recovery rate



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15A, Parameter: Fluoranthene

Z-score



Parameter oriented report

P15 B

Fluoranthene

Unit	ng/l
Mean ± CI (99%)	6.21 ± 1.45
Minimum - Maximum	4.4 - 7.8
Check value ± U	< 6.4 (LOQ)

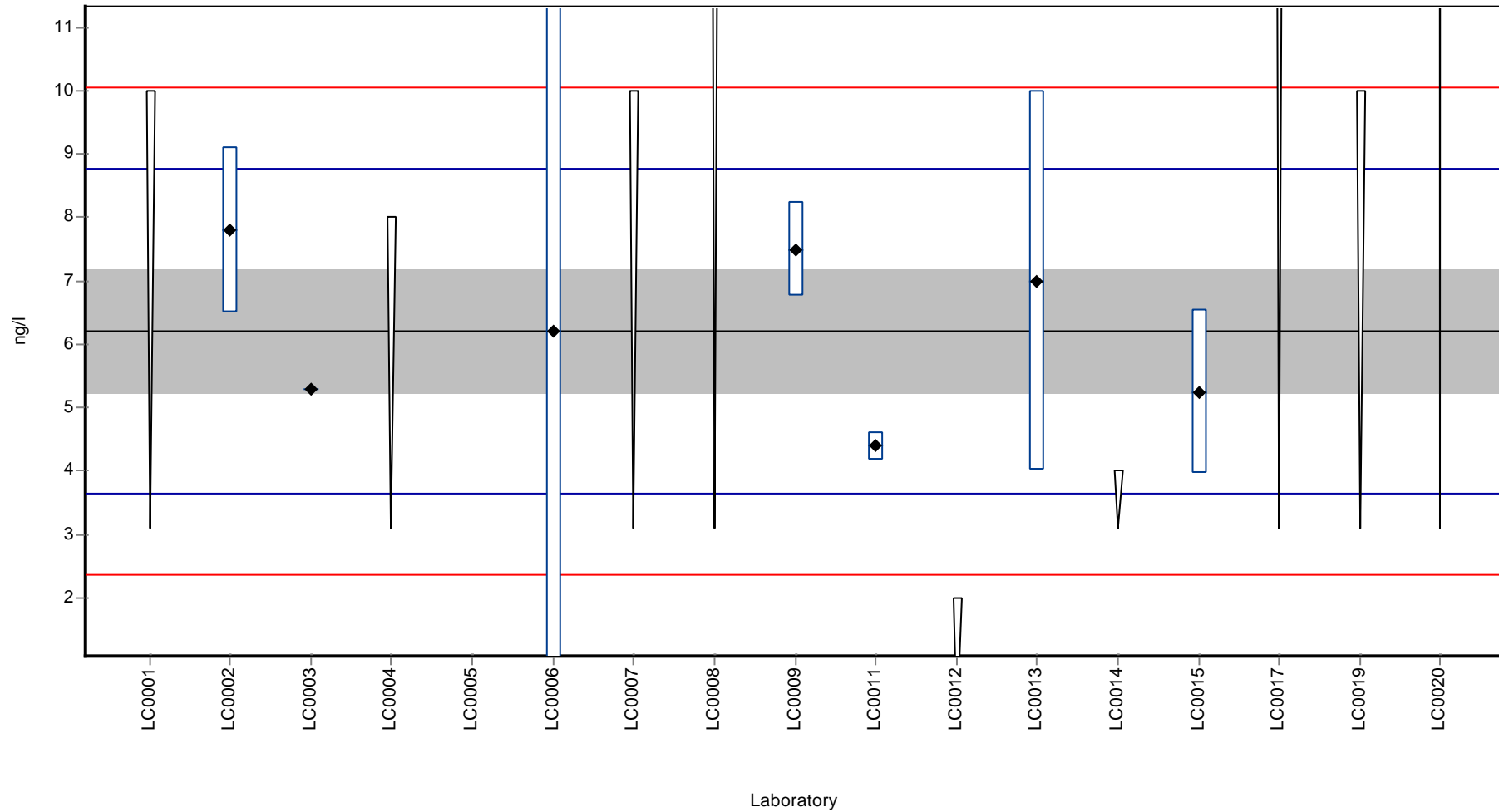
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	7.800	1.300	125.7	1.2	
LC0003	5.300	-	85.4	-0.7	
LC0004	< 8 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	6.200	6.000	99.9	0.0	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	< 20 (LOQ)	-	-	-	
LC0009	7.500	0.750	120.8	1.0	
LC0010	-	-	-	-	
LC0011	4.400	0.220	70.9	-1.4	
LC0012	< 2 (LOQ)	-	-	-	
LC0013	7.000	3.000	112.8	0.6	
LC0014	<4 (LOD)	-	-	-	
LC0015	5.250	1.300	84.6	-0.7	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 10 (LOQ)	-	-	-	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

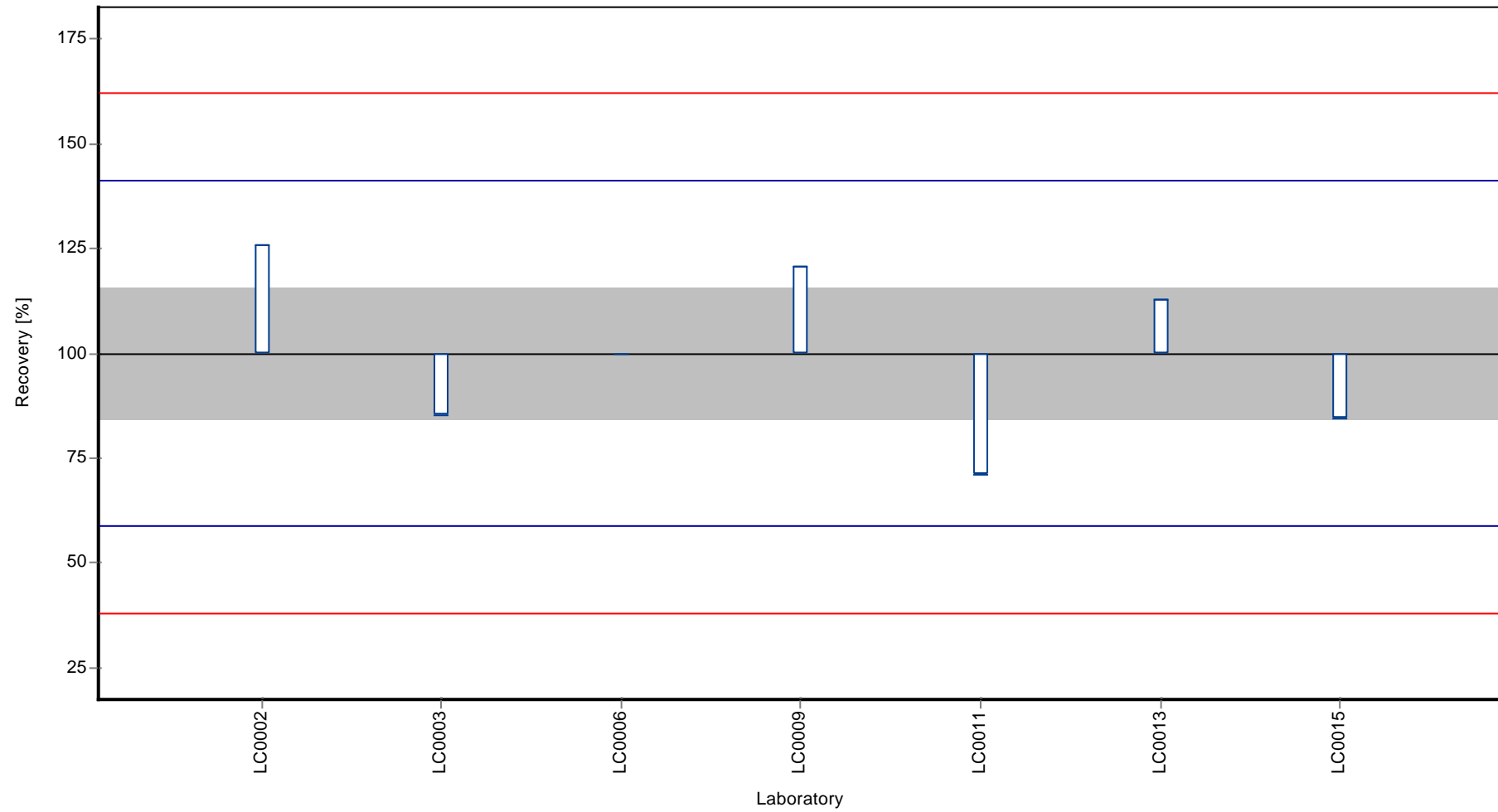
	all results	w ithout outliers	Unit
Mean ± CI (99%)	6.21 ± 1.45	6.21 ± 1.45	ng/l
Minimum	4.4	4.4	ng/l
Maximum	7.8	7.8	ng/l
Standard deviation	1.28	1.28	ng/l
rel. Standard deviation	20.6	20.6	%
n	7	7	-

Graphical presentation of results

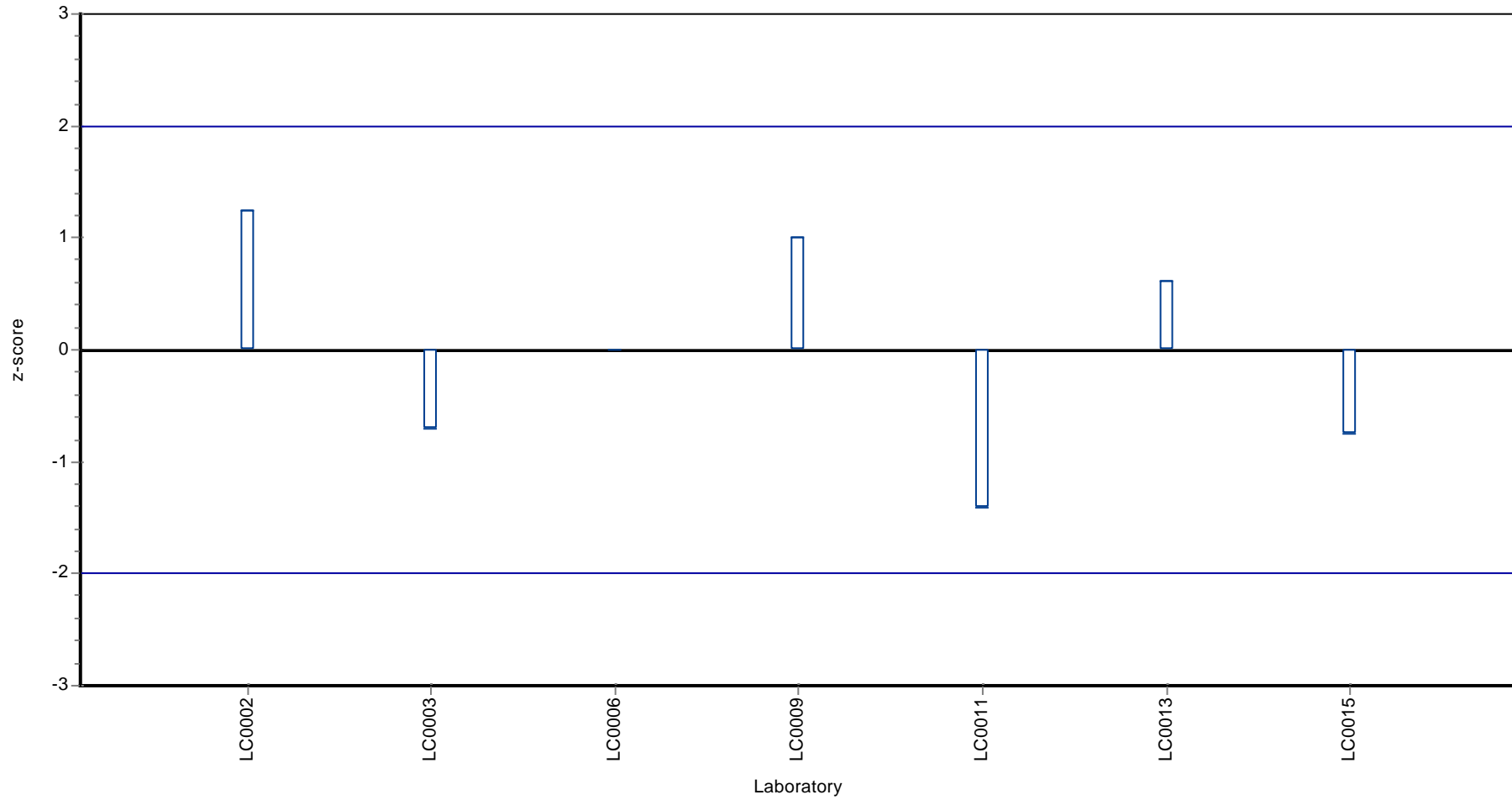
Results



Recovery rate



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15A, Parameter: Fluorene

Parameter oriented report

P15 A

Fluorene

Unit	ng/l
Mean ± CI (99%)	174 ± 26.3
Minimum - Maximum	124 - 233
Check value ± U	170 ± 14

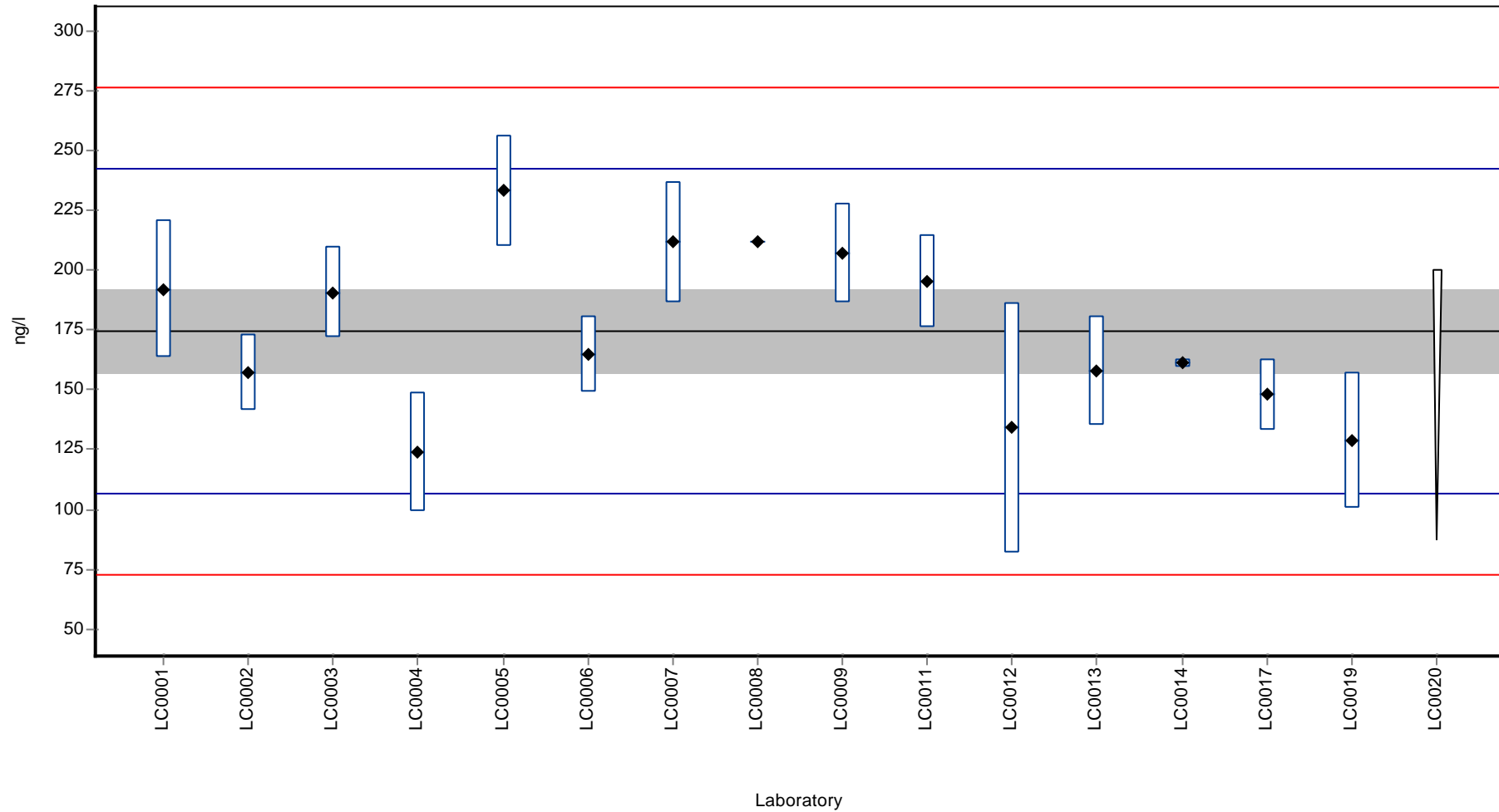
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	192.000	28.900	110.1	0.5	
LC0002	157.000	16.000	90.0	-0.5	
LC0003	190.400	19.000	109.1	0.5	
LC0004	124.000	25.000	71.1	-1.5	
LC0005	233.000	23.000	133.6	1.7	
LC0006	165.000	16.000	94.6	-0.3	
LC0007	211.500	25.000	121.2	1.1	
LC0008	212.150	0.0077	121.6	1.1	
LC0009	207.000	20.700	118.7	1.0	
LC0010	-	-	-	-	
LC0011	195.000	19.500	111.8	0.6	
LC0012	134.000	52.000	76.8	-1.2	
LC0013	158.000	23.000	90.6	-0.5	
LC0014	161.000	2.000	92.3	-0.4	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	148.000	14.800	84.8	-0.8	
LC0018	-	-	-	-	
LC0019	128.700	28.300	73.8	-1.3	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

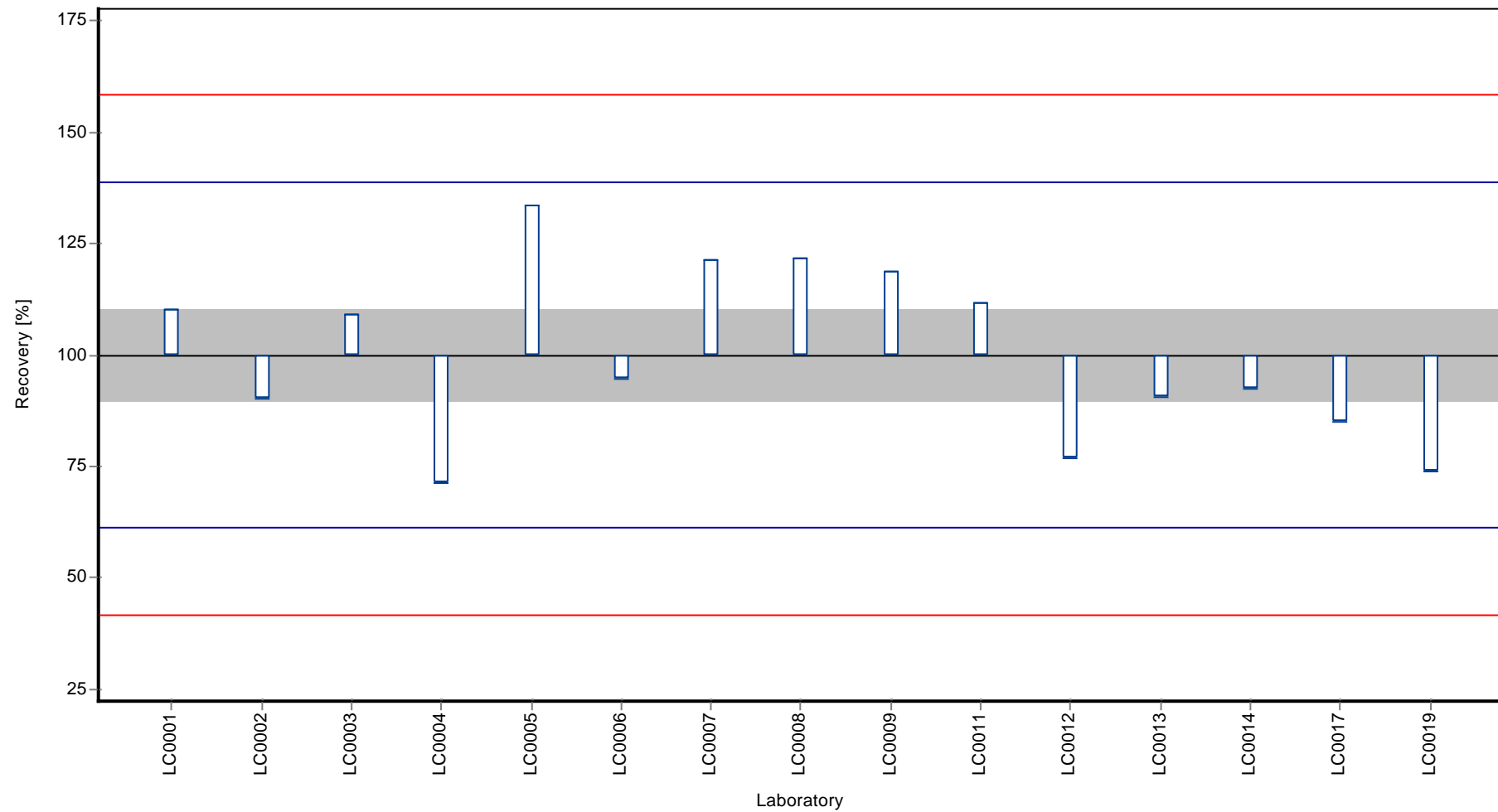
	all results	w ithout outliers	Unit
Mean ± CI (99%)	174 ± 26.3	174 ± 26.3	ng/l
Minimum	124	124	ng/l
Maximum	233	233	ng/l
Standard deviation	33.9	33.9	ng/l
rel. Standard deviation	19.4	19.4	%
n	15	15	-

Graphical presentation of results

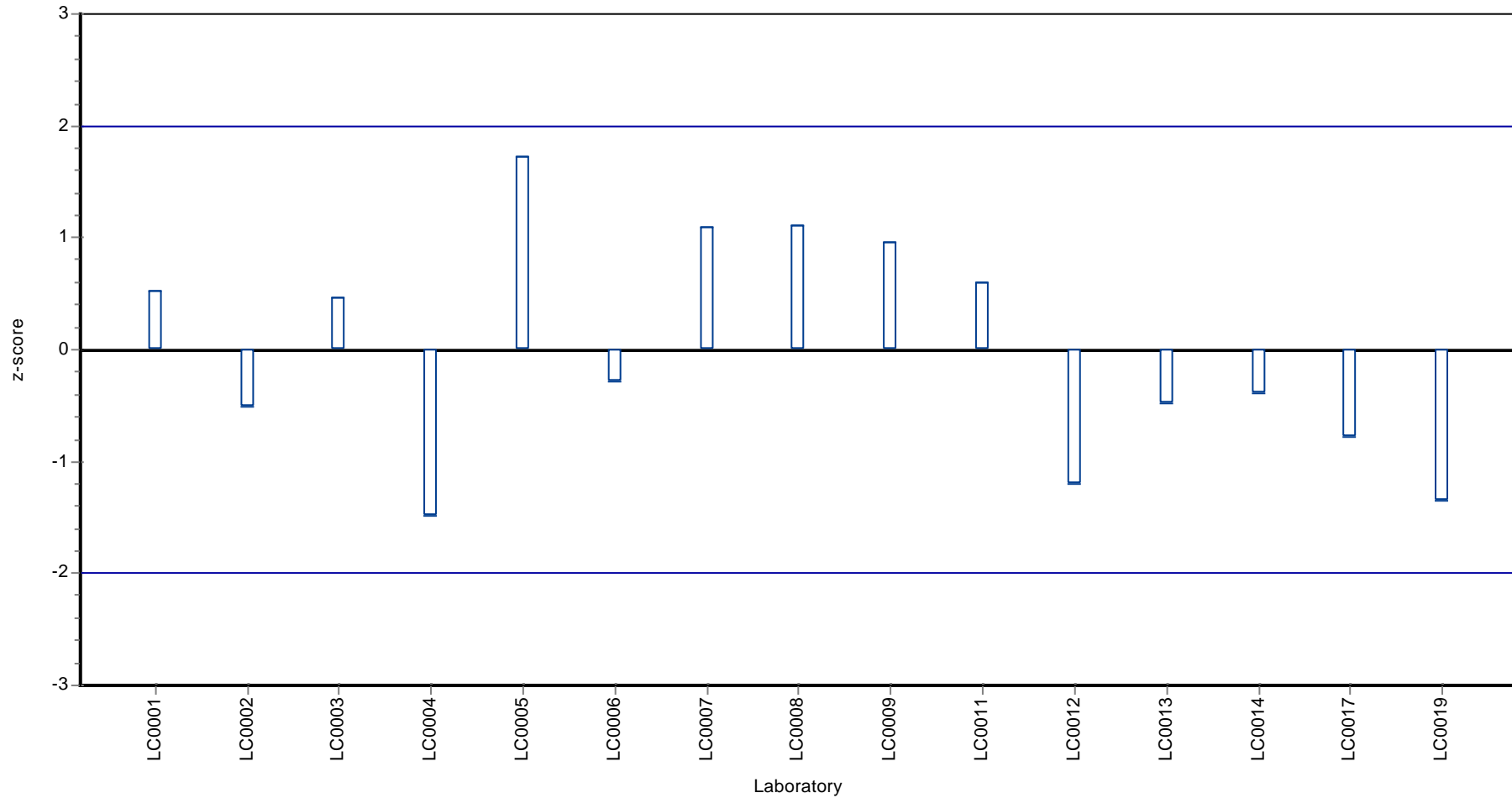
Results



Recovery rate



Z-score



Parameter oriented report

P15 B

Fluorene

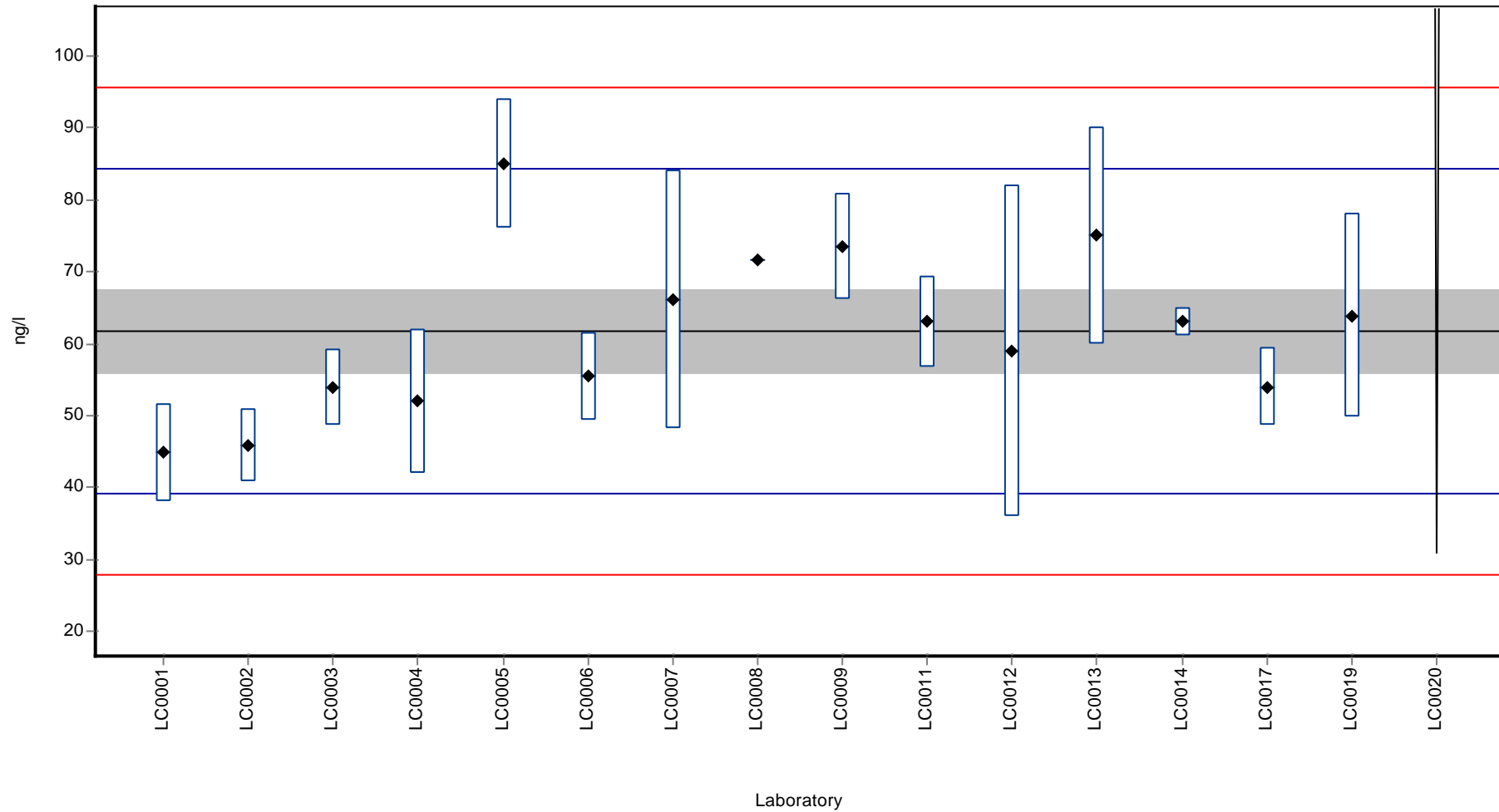
Unit	ng/l
Mean ± CI (99%)	61.7 ± 8.74
Minimum - Maximum	44.8 - 85
Check value ± U	56 ± 5

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	44.800	6.700	72.6	-1.5	
LC0002	45.800	5.100	74.2	-1.4	
LC0003	53.900	5.400	87.3	-0.7	
LC0004	52.000	10.000	84.2	-0.9	
LC0005	85.000	9.000	137.7	2.1	
LC0006	55.400	6.000	89.7	-0.6	
LC0007	66.100	18.000	107.1	0.4	
LC0008	71.590	-	116.0	0.9	
LC0009	73.500	7.350	119.1	1.0	
LC0010	-	-	-	-	
LC0011	63.000	6.300	102.1	0.1	
LC0012	59.000	23.000	95.6	-0.2	
LC0013	75.000	15.000	121.5	1.2	
LC0014	63.000	2.000	102.1	0.1	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	54.000	5.400	87.5	-0.7	
LC0018	-	-	-	-	
LC0019	63.900	14.100	103.5	0.2	
LC0020	< 200 (LOQ)	-	-	-	

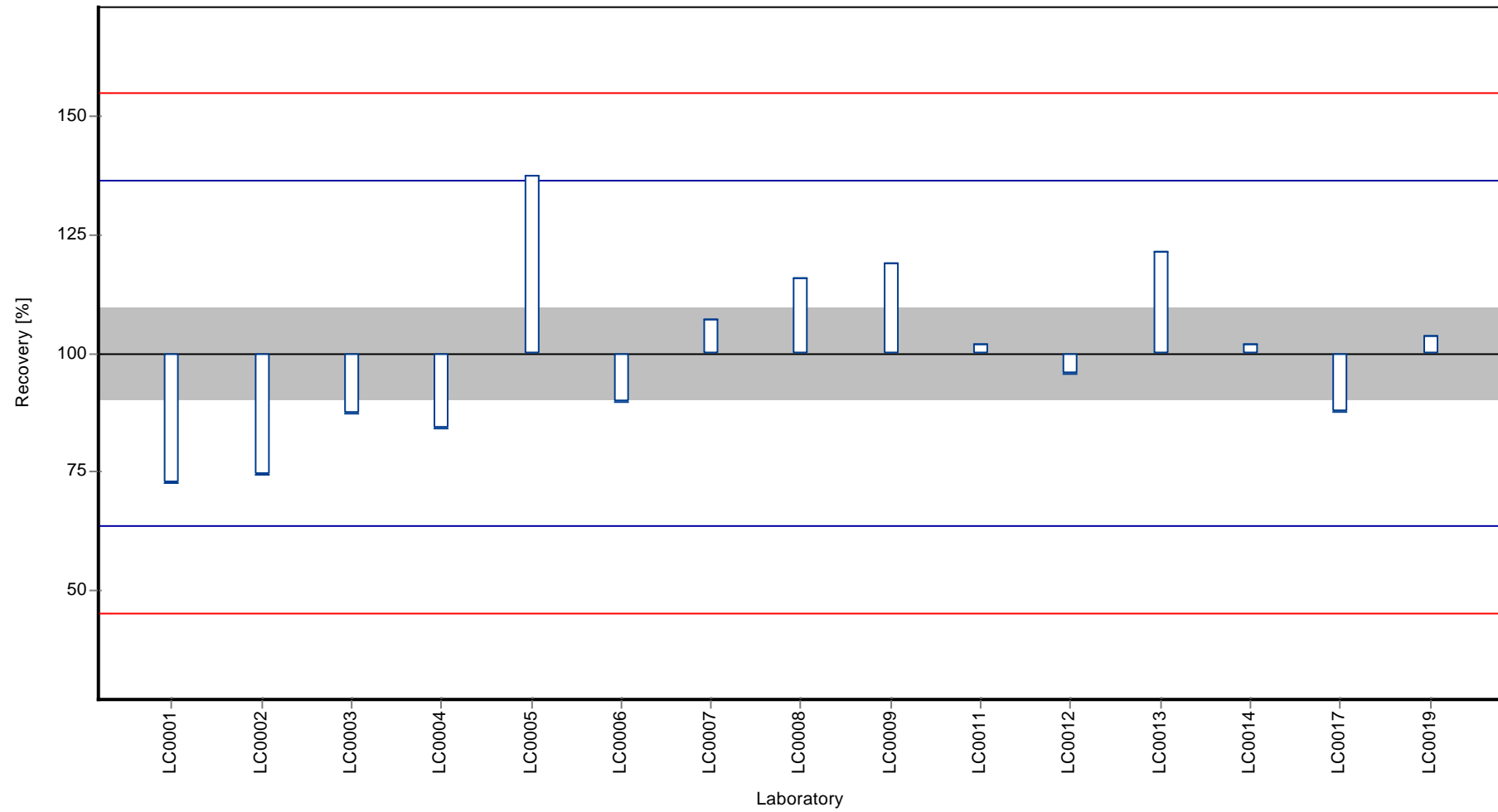
Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	61.7 ± 8.74	61.7 ± 8.74	ng/l
Minimum	44.8	44.8	ng/l
Maximum	85	85	ng/l
Standard deviation	11.3	11.3	ng/l
rel. Standard deviation	18.3	18.3	%
n	15	15	-

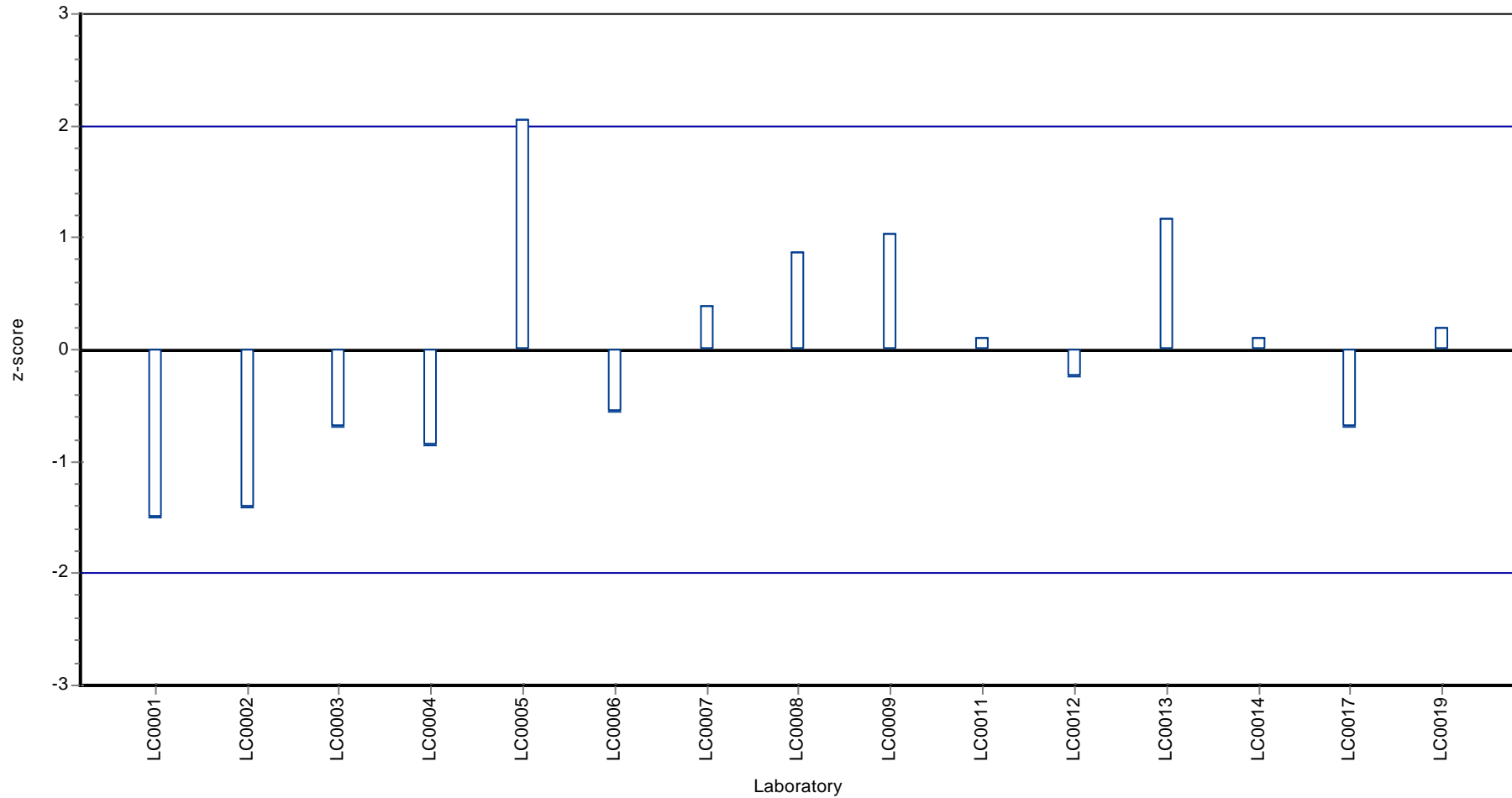
Graphical presentation of results
Results



Recovery rate



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15A, Parameter: Indeno[1,2,3-cd]pyrene

Parameter oriented report

P15 A

Indeno[1,2,3-cd]pyrene

Unit	ng/l
Mean ± CI (99%)	57.4 ± 11.8
Minimum - Maximum	31.3 - 82
Check value ± U	45 ± 9.9

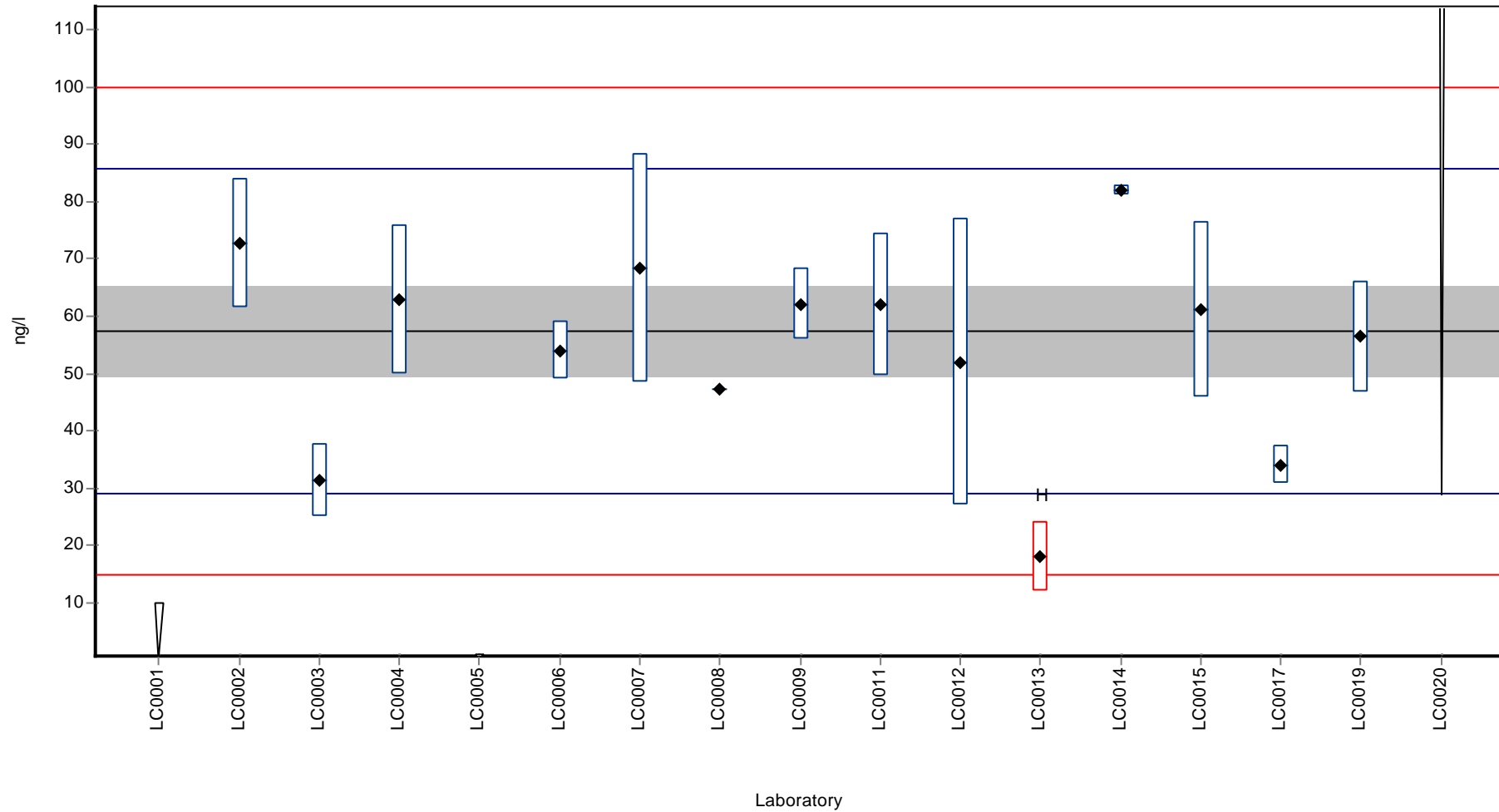
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	72.600	11.300	126.5	1.1	
LC0003	31.300	6.300	54.5	-1.8	
LC0004	63.000	13.000	109.8	0.4	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	54.000	5.000	94.1	-0.2	
LC0007	68.300	20.000	119.0	0.8	
LC0008	47.250	0.0041	82.3	-0.7	
LC0009	62.100	6.210	108.2	0.3	
LC0010	-	-	-	-	
LC0011	62.000	12.400	108.0	0.3	
LC0012	52.000	25.000	90.6	-0.4	
LC0013	18.000	6.000	31.4	-2.8	H
LC0014	82.000	1.000	142.9	1.7	
LC0015	61.100	15.300	106.5	0.3	
LC0016	-	-	-	-	
LC0017	34.000	3.400	59.2	-1.6	
LC0018	-	-	-	-	
LC0019	56.400	9.600	98.3	-0.1	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

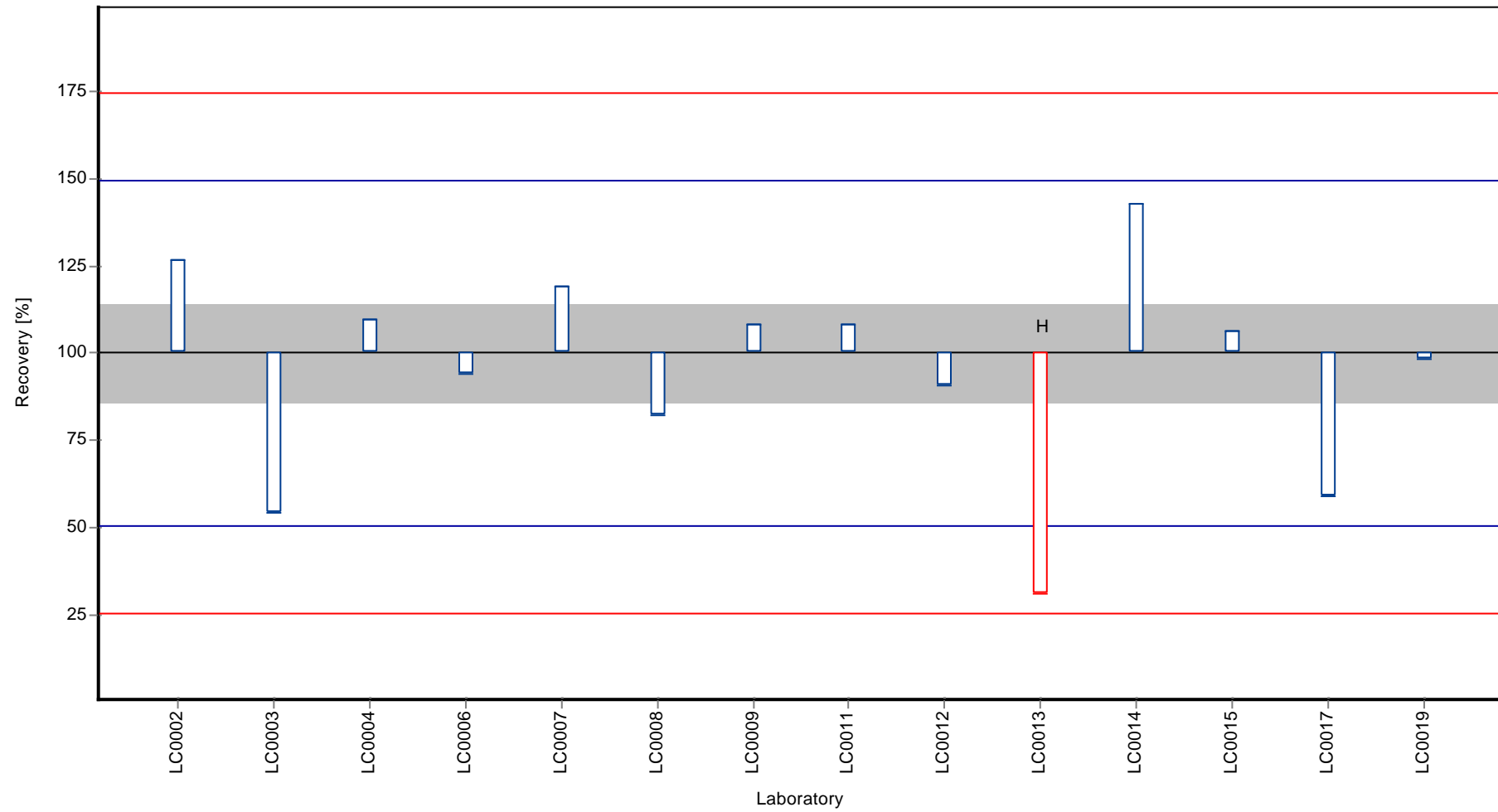
	all results	w ithout outliners	Unit
Mean ± CI (99%)	54.6 ± 13.8	57.4 ± 11.8	ng/l
Minimum	18	31.3	ng/l
Maximum	82	82	ng/l
Standard deviation	17.2	14.2	ng/l
rel. Standard deviation	31.6	24.7	%
n	14	13	-

Graphical presentation of results

Results



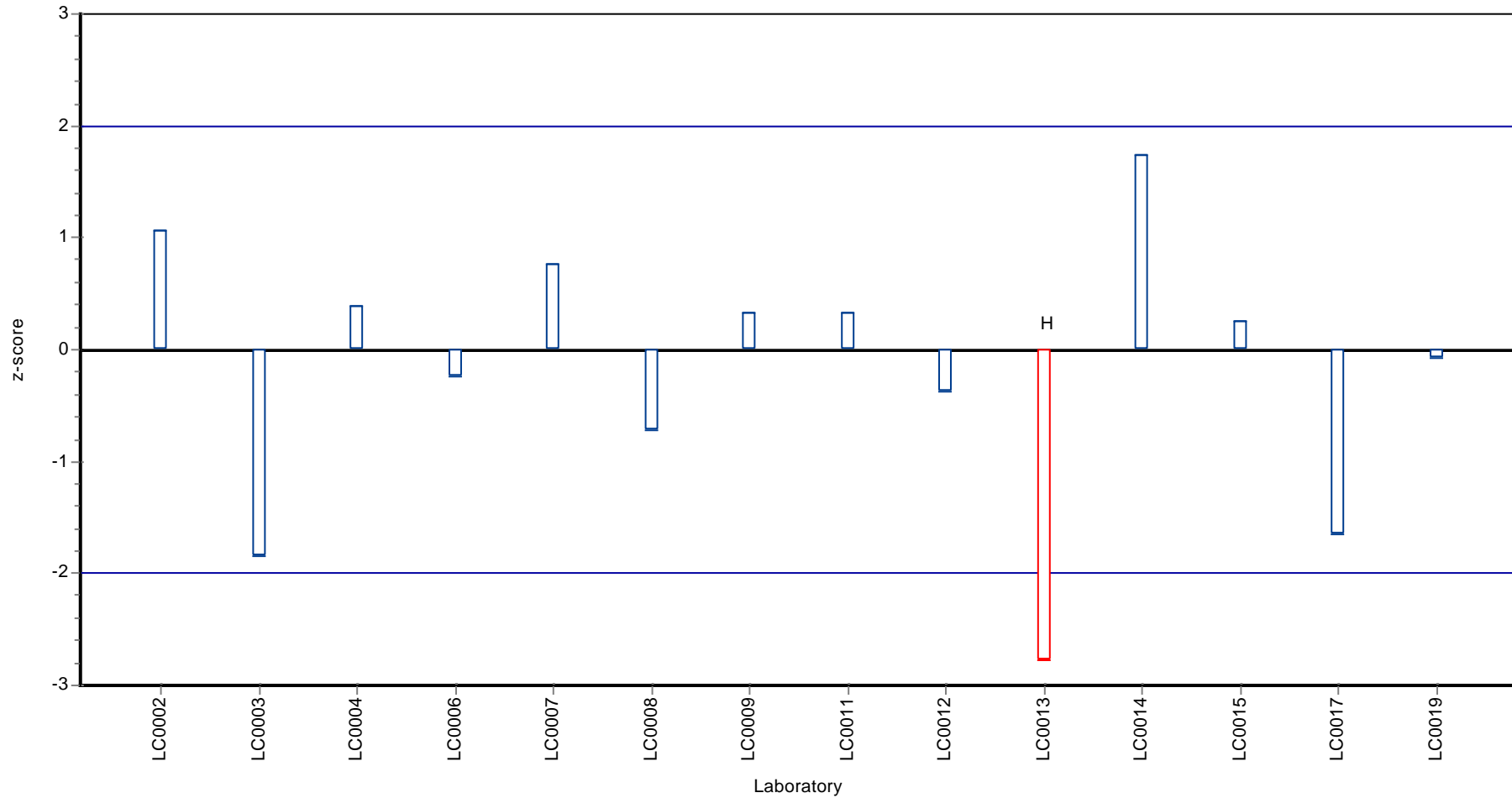
Recovery rate



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15A, Parameter: Indeno[1,2,3-cd]pyrene

Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15B, Parameter: Indeno[1,2,3-cd]pyrene

Parameter oriented report

P15 B

Indeno[1,2,3-cd]pyrene

Unit	ng/l
Mean ± CI (99%)	13.8 ± 4.23
Minimum - Maximum	5 - 20.4
Check value ± U	11 ± 12

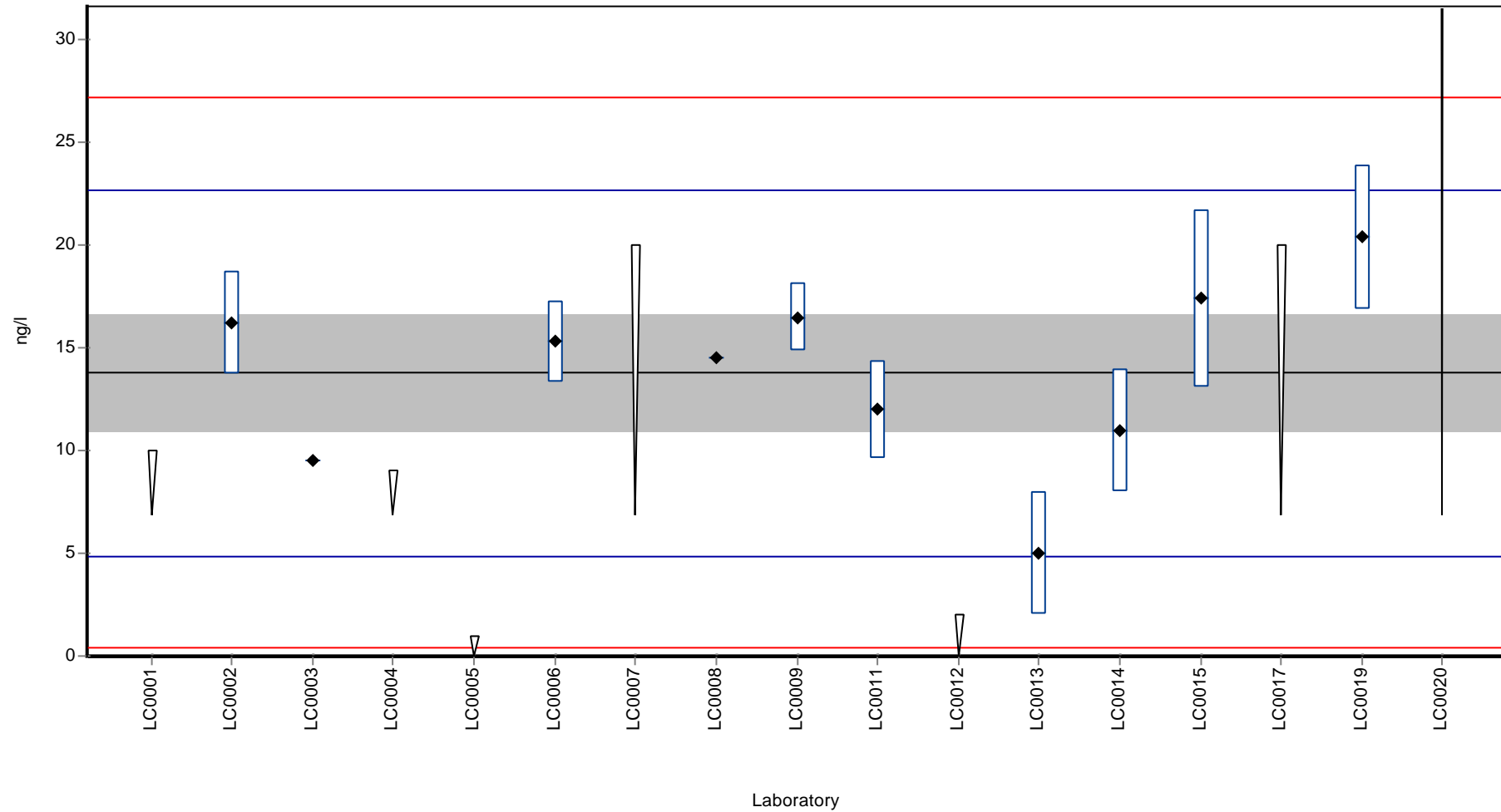
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	16.200	2.500	117.5	0.5	
LC0003	9.500	-	68.9	-1.0	
LC0004	< 9 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	15.300	2.000	111.0	0.3	
LC0007	< 20 (LOQ)	-	-	-	
LC0008	14.520	0.002	105.4	0.2	
LC0009	16.500	1.650	119.7	0.6	
LC0010	-	-	-	-	
LC0011	12.000	2.400	87.1	-0.4	
LC0012	< 2 (LOQ)	-	-	-	
LC0013	5.000	3.000	36.3	-2.0	
LC0014	11.000	3.000	79.8	-0.6	
LC0015	17.400	4.300	126.3	0.8	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	20.400	3.500	148.0	1.5	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

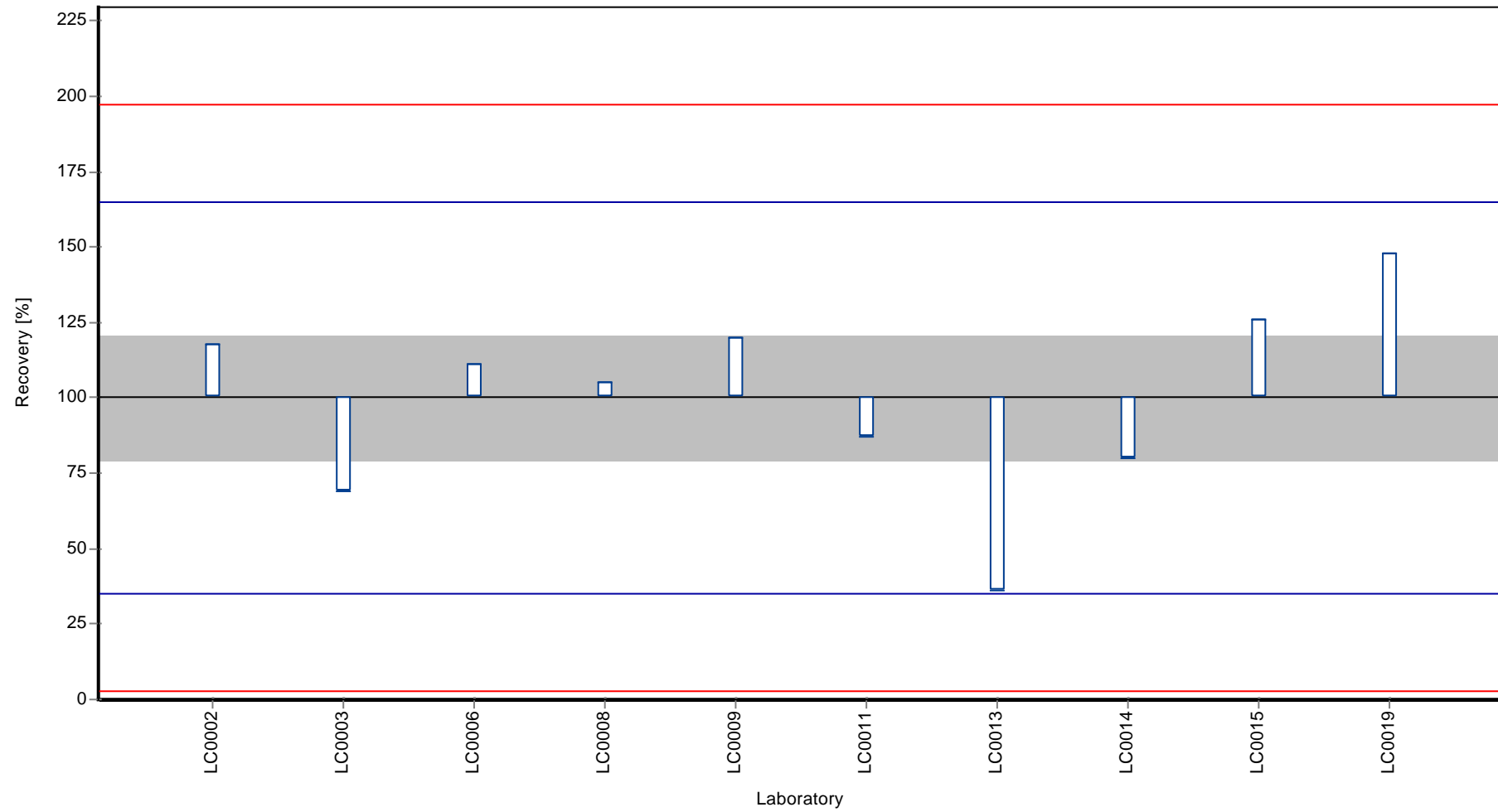
	all results	w ithout outliers	Unit
Mean ± CI (99%)	13.8 ± 4.23	13.8 ± 4.23	ng/l
Minimum	5	5	ng/l
Maximum	20.4	20.4	ng/l
Standard deviation	4.46	4.46	ng/l
rel. Standard deviation	32.4	32.4	%
n	10	10	-

Graphical presentation of results

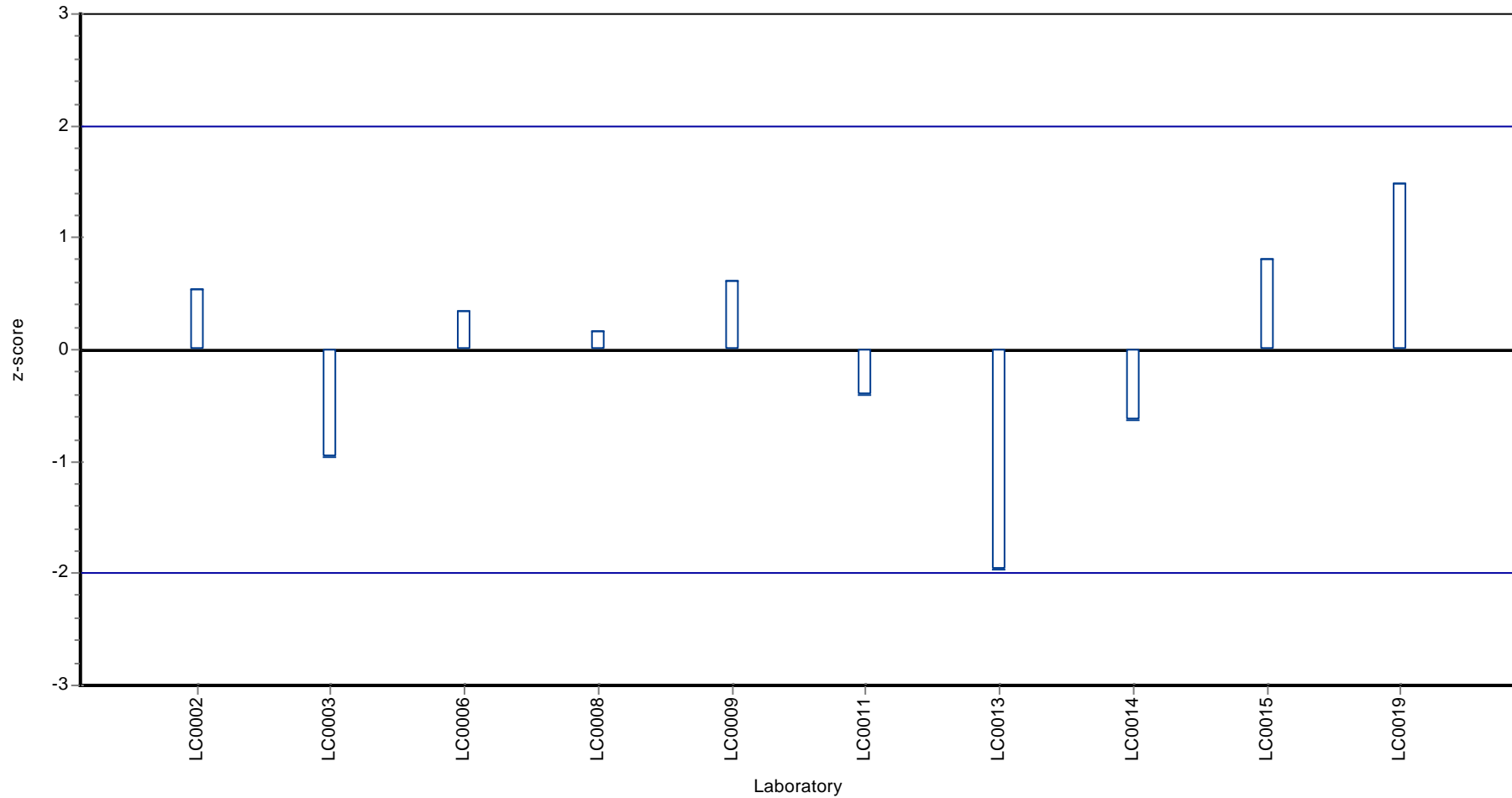
Results



Recovery rate



Z-score



Parameter oriented report

P15 A

Naphthalene

Unit	ng/l
Mean ± CI (99%)	63.5 ± 12.7
Minimum - Maximum	39 - 101
Check value ± U	59 ± 4.4

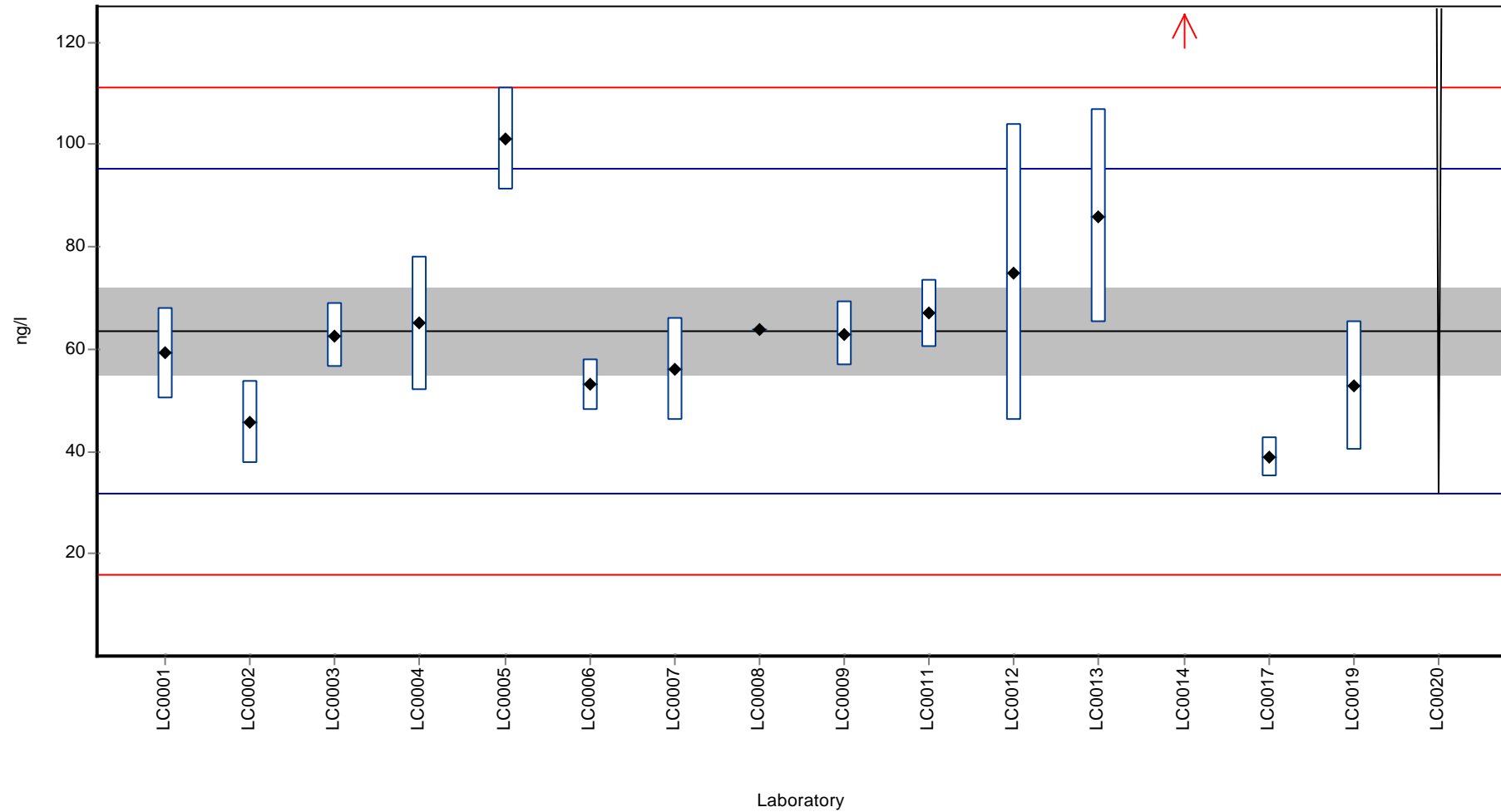
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	59.300	8.900	93.3	-0.3	
LC0002	45.700	8.200	71.9	-1.1	
LC0003	62.600	6.300	98.5	-0.1	
LC0004	65.000	13.000	102.3	0.1	
LC0005	101.000	10.000	159.0	2.4	
LC0006	53.100	5.000	83.6	-0.7	
LC0007	56.000	10.000	88.1	-0.5	
LC0008	63.930	0.0004	100.6	0.0	
LC0009	63.000	6.300	99.2	0.0	
LC0010	-	-	-	-	
LC0011	67.000	6.700	105.5	0.2	
LC0012	75.000	29.000	118.1	0.7	
LC0013	86.000	21.000	135.4	1.4	
LC0014	653.000	26.000	1027.8	37.1	H
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	39.000	3.900	61.4	-1.5	
LC0018	-	-	-	-	
LC0019	52.800	12.700	83.1	-0.7	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

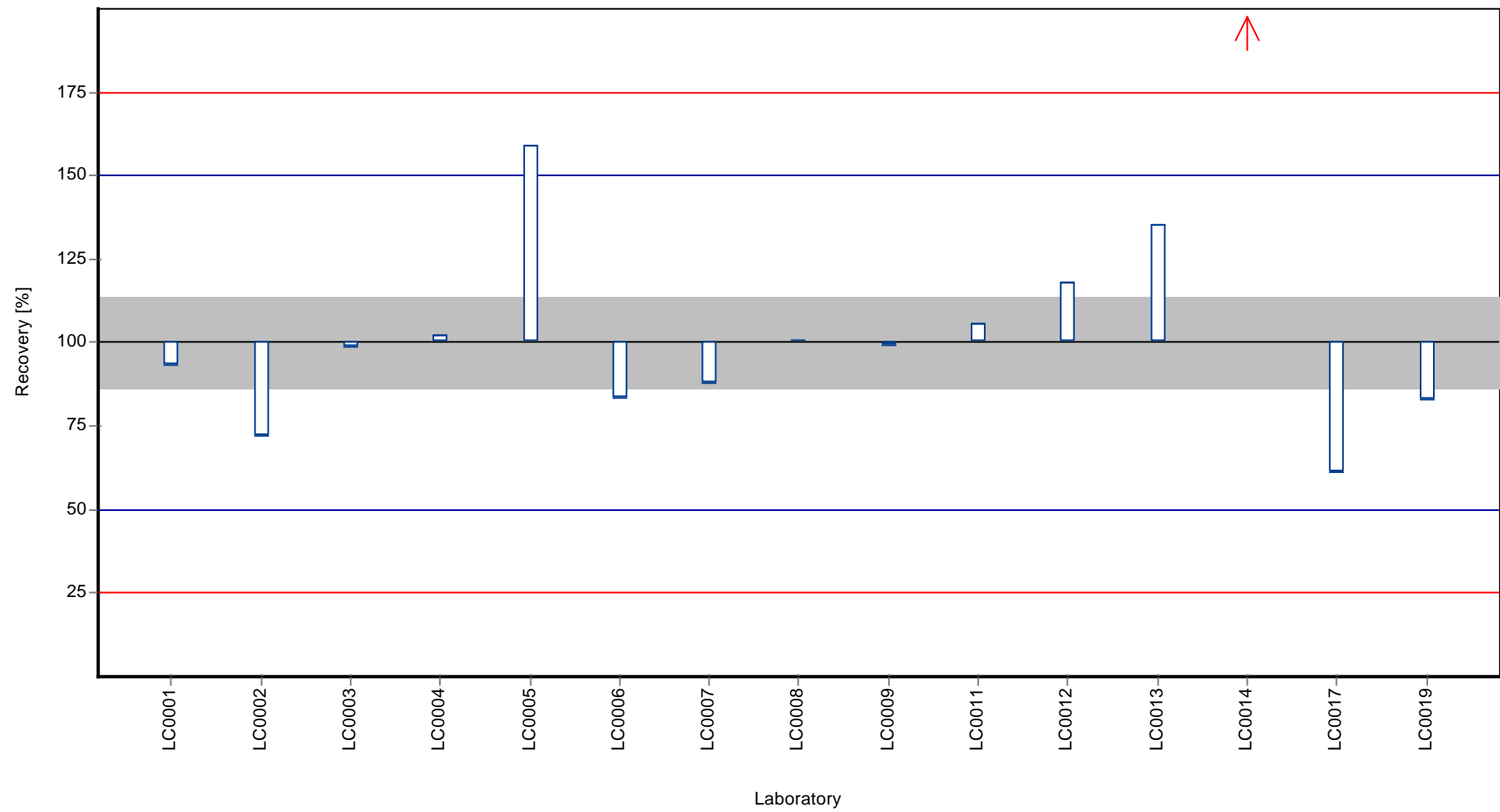
	all results	w ithout outliers	Unit
Mean ± CI (99%)	103 ± 118	63.5 ± 12.7	ng/l
Minimum	39	39	ng/l
Maximum	653	101	ng/l
Standard deviation	153	15.9	ng/l
rel. Standard deviation	149	25	%
n	15	14	-

Graphical presentation of results

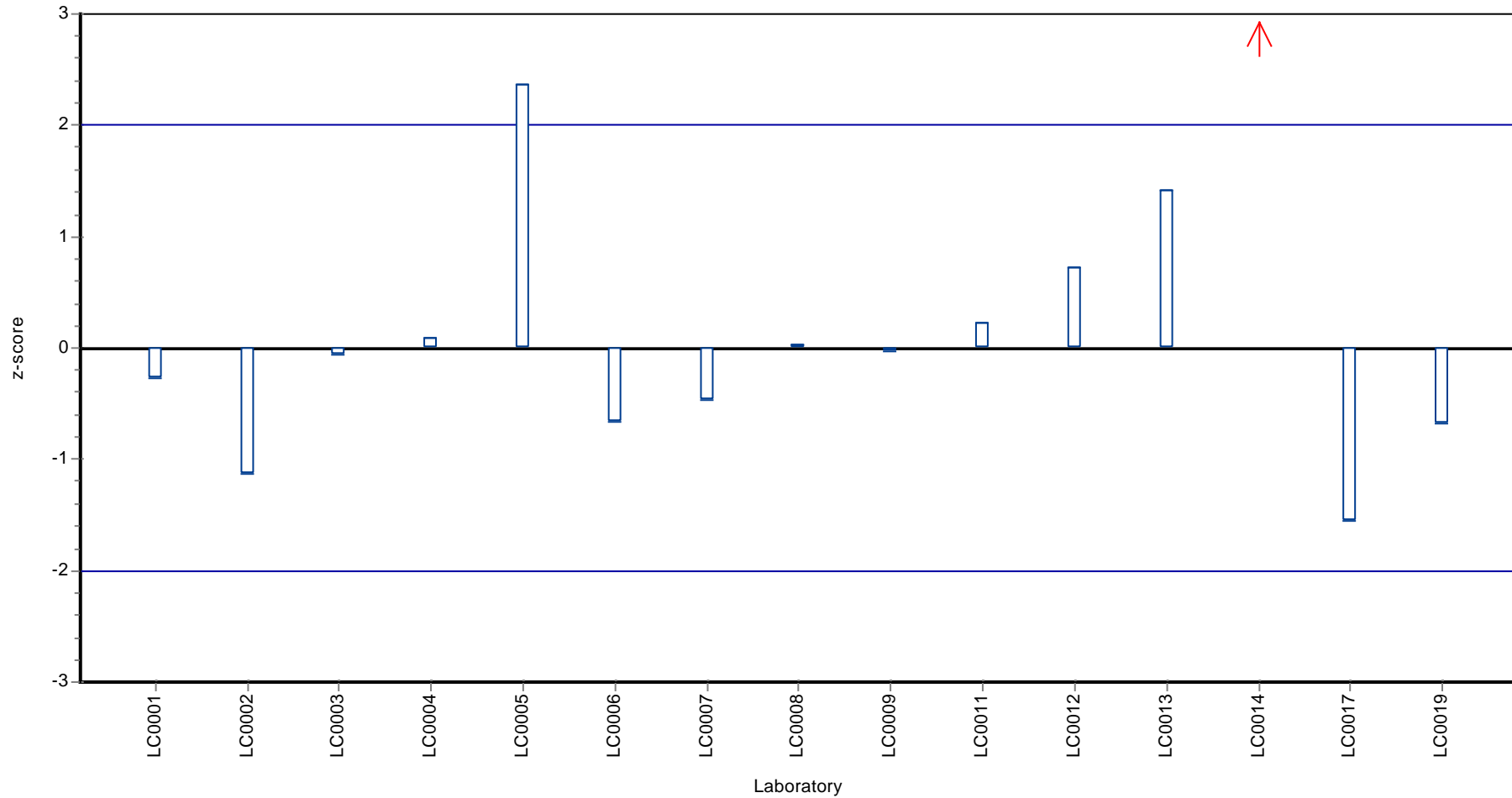
Results



Recovery rate



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15B, Parameter: Naphthalene

Parameter oriented report

P15 B

Naphthalene

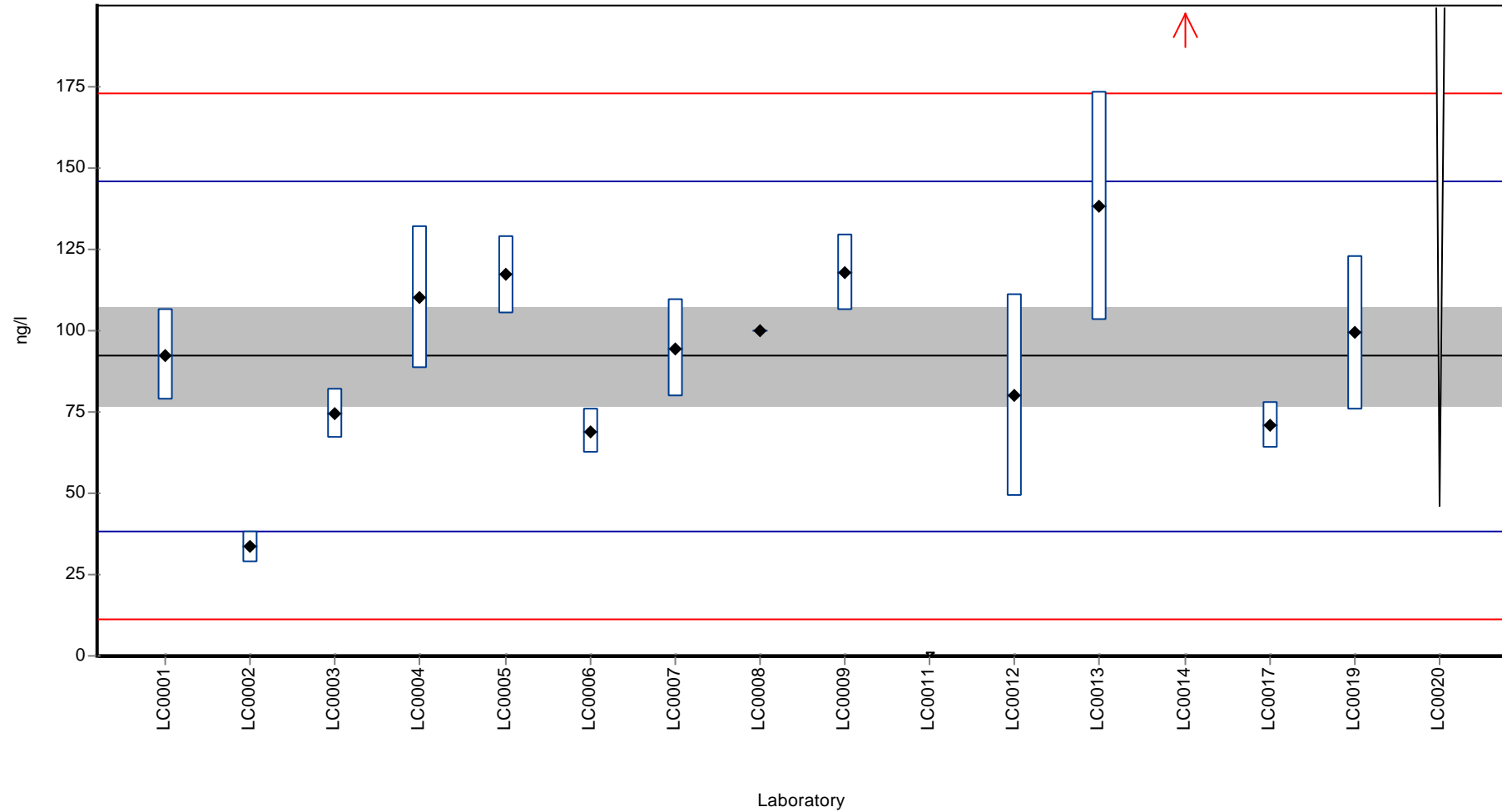
Unit	ng/l
Mean ± CI (99%)	92 ± 22.4
Minimum - Maximum	33.4 - 138
Check value ± U	110 ± 0

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	92.400	13.900	100.4	0.0	
LC0002	33.400	4.900	36.3	-2.2	
LC0003	74.400	7.400	80.8	-0.7	
LC0004	110.000	22.000	119.5	0.7	
LC0005	117.000	12.000	127.1	0.9	
LC0006	69.000	7.000	75.0	-0.9	
LC0007	94.400	15.000	102.6	0.1	
LC0008	100.060	0.004	108.7	0.3	
LC0009	117.600	11.760	127.8	0.9	
LC0010	-	-	-	-	
LC0011	< 1 (LOQ)	-	-	-	
LC0012	80.000	31.000	86.9	-0.4	
LC0013	138.000	35.000	150.0	1.7	
LC0014	675.000	26.000	733.5	21.7	H
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	71.000	7.100	77.2	-0.8	
LC0018	-	-	-	-	
LC0019	99.100	23.800	107.7	0.3	
LC0020	< 200 (LOQ)	-	-	-	

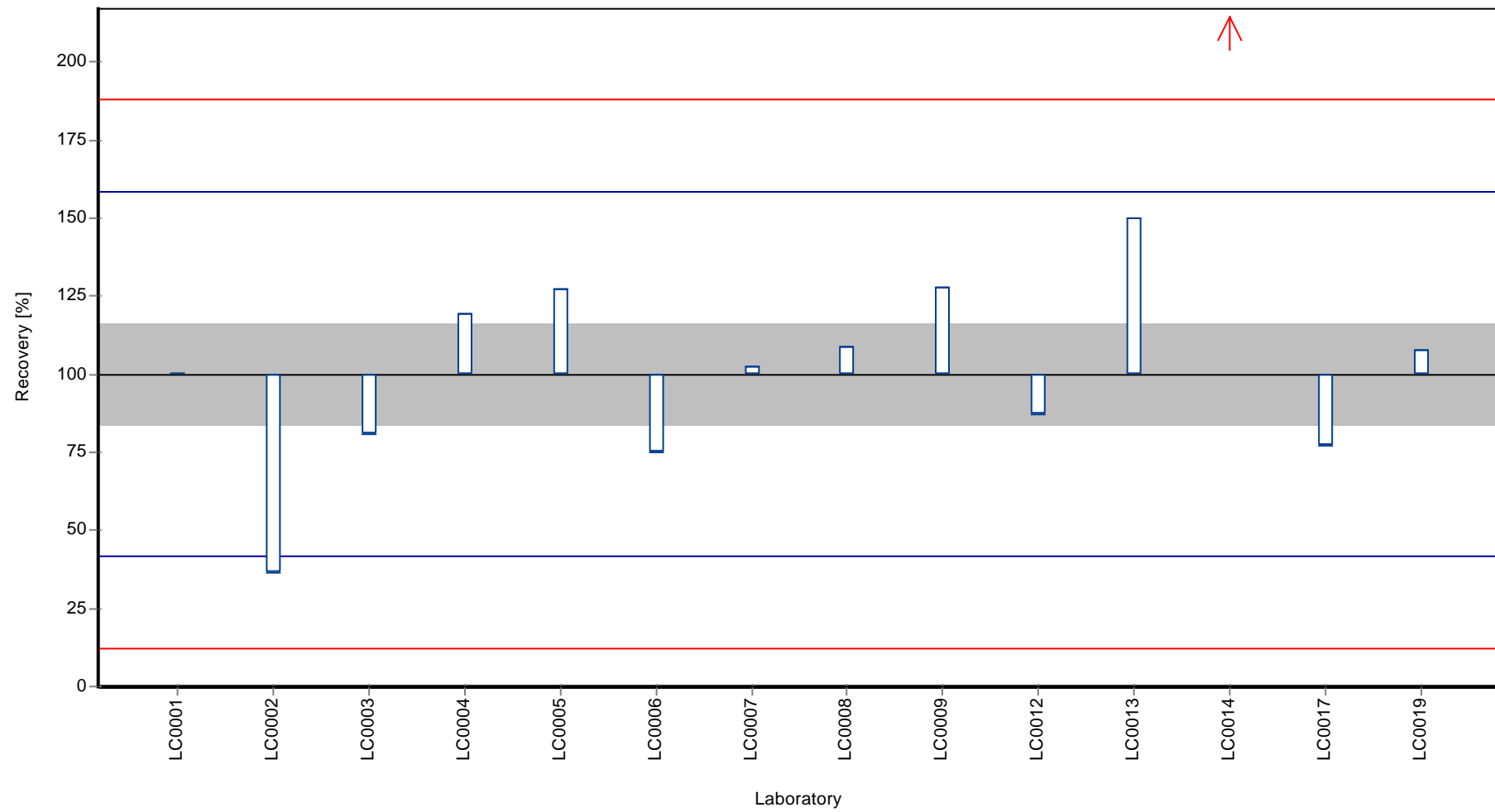
Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	134 ± 127	92 ± 22.4	ng/l
Minimum	33.4	33.4	ng/l
Maximum	675	138	ng/l
Standard deviation	158	26.9	ng/l
rel. Standard deviation	118	29.3	%
n	14	13	-

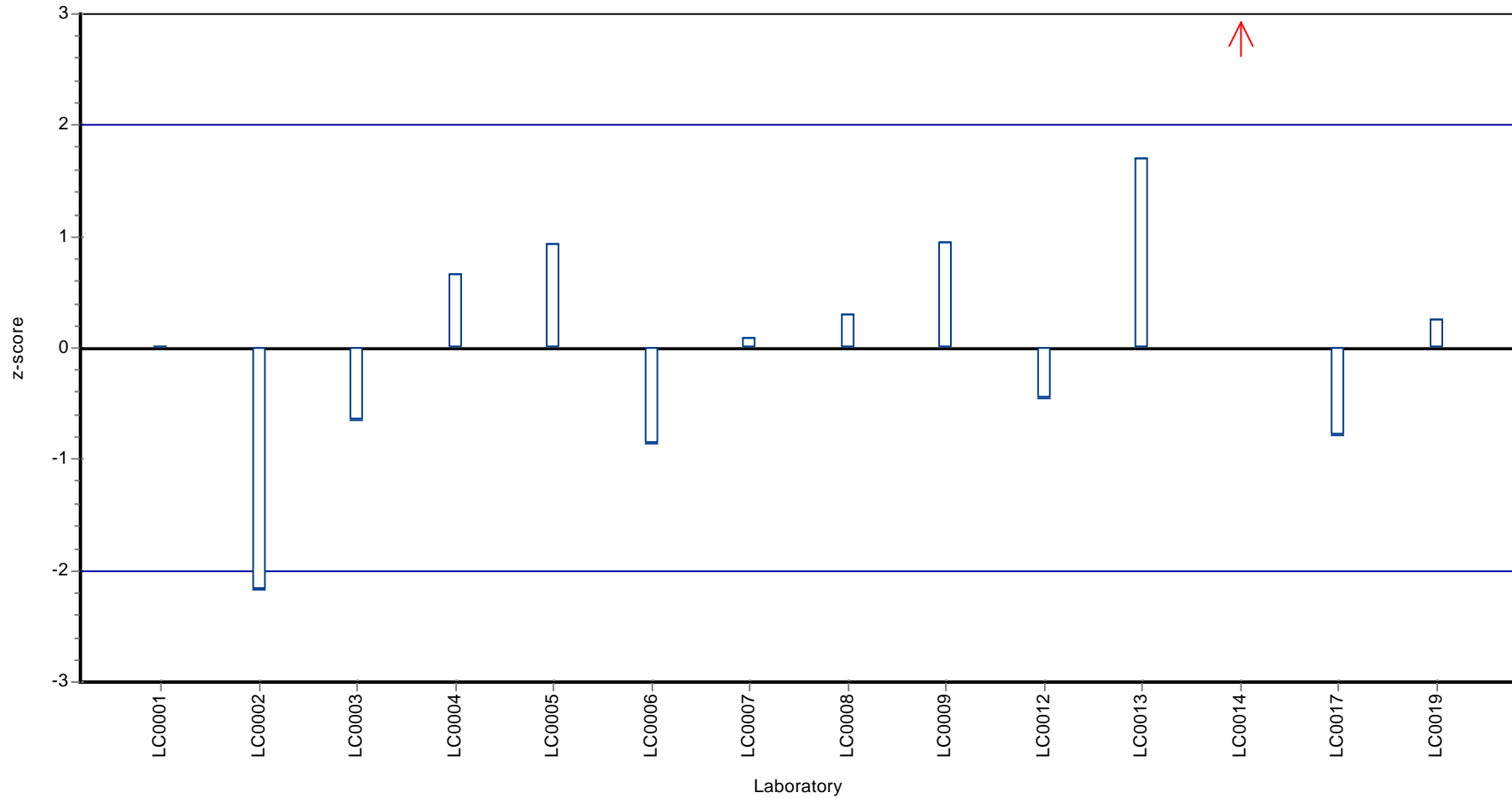
Graphical presentation of results
Results



Recovery rate



Z-score



Parameter oriented report

P15 A

Phenanthrene

Unit	ng/l
Mean ± CI (99%)	95.7 ± 11.1
Minimum - Maximum	70.1 - 115
Check value ± U	88 ± 7.5

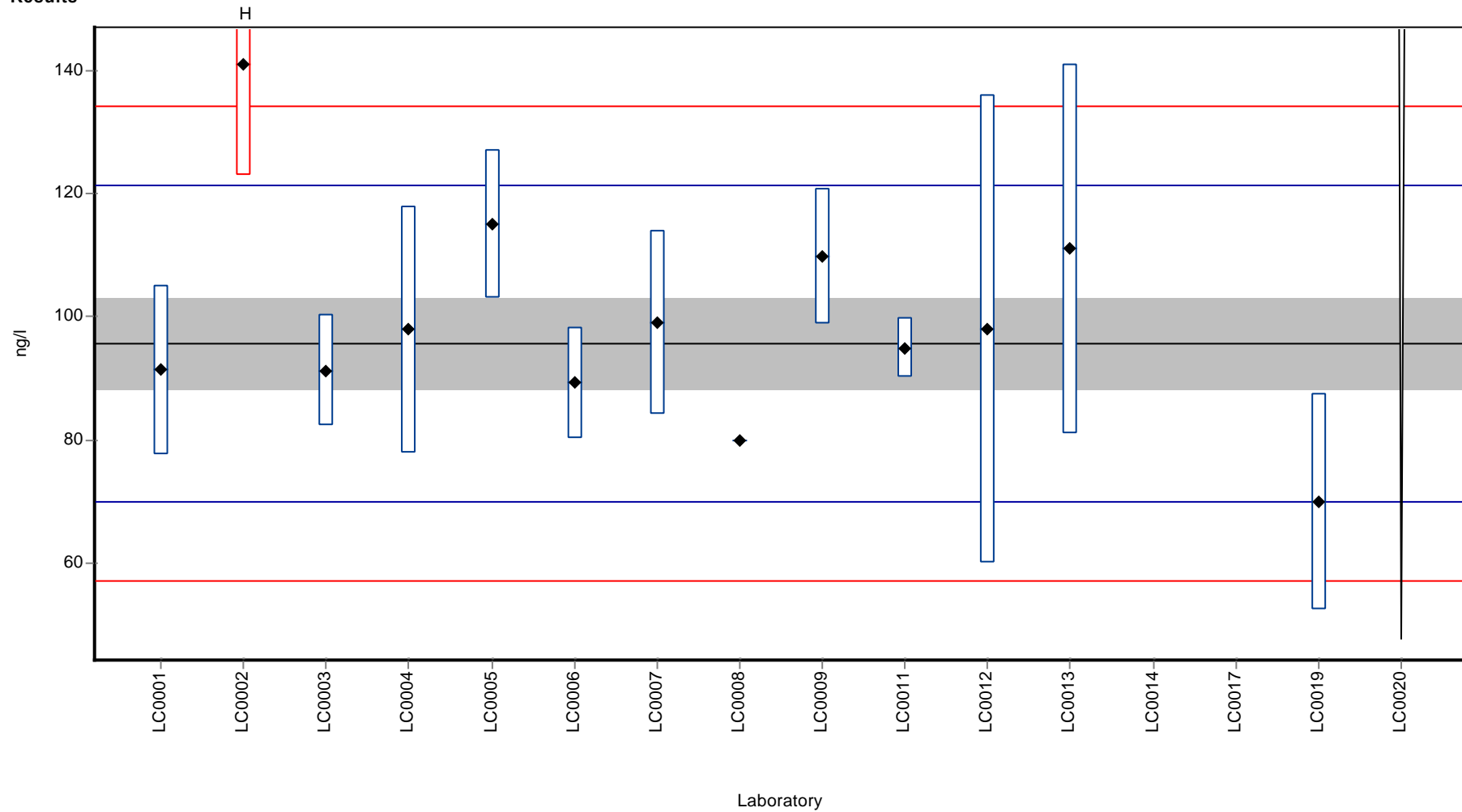
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	91.400	13.700	95.5	-0.3	
LC0002	141.000	18.000	147.4	3.5	H
LC0003	91.300	9.100	95.4	-0.3	
LC0004	98.000	20.000	102.4	0.2	
LC0005	115.000	12.000	120.2	1.5	
LC0006	89.300	9.000	93.3	-0.5	
LC0007	99.100	15.000	103.6	0.3	
LC0008	80.020	0.0043	83.6	-1.2	
LC0009	109.800	10.980	114.8	1.1	
LC0010	-	-	-	-	
LC0011	95.000	4.750	99.3	-0.1	
LC0012	98.000	38.000	102.4	0.2	
LC0013	111.000	30.000	116.0	1.2	
LC0014	<16 (LOD)	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	70.100	17.500	73.3	-2.0	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

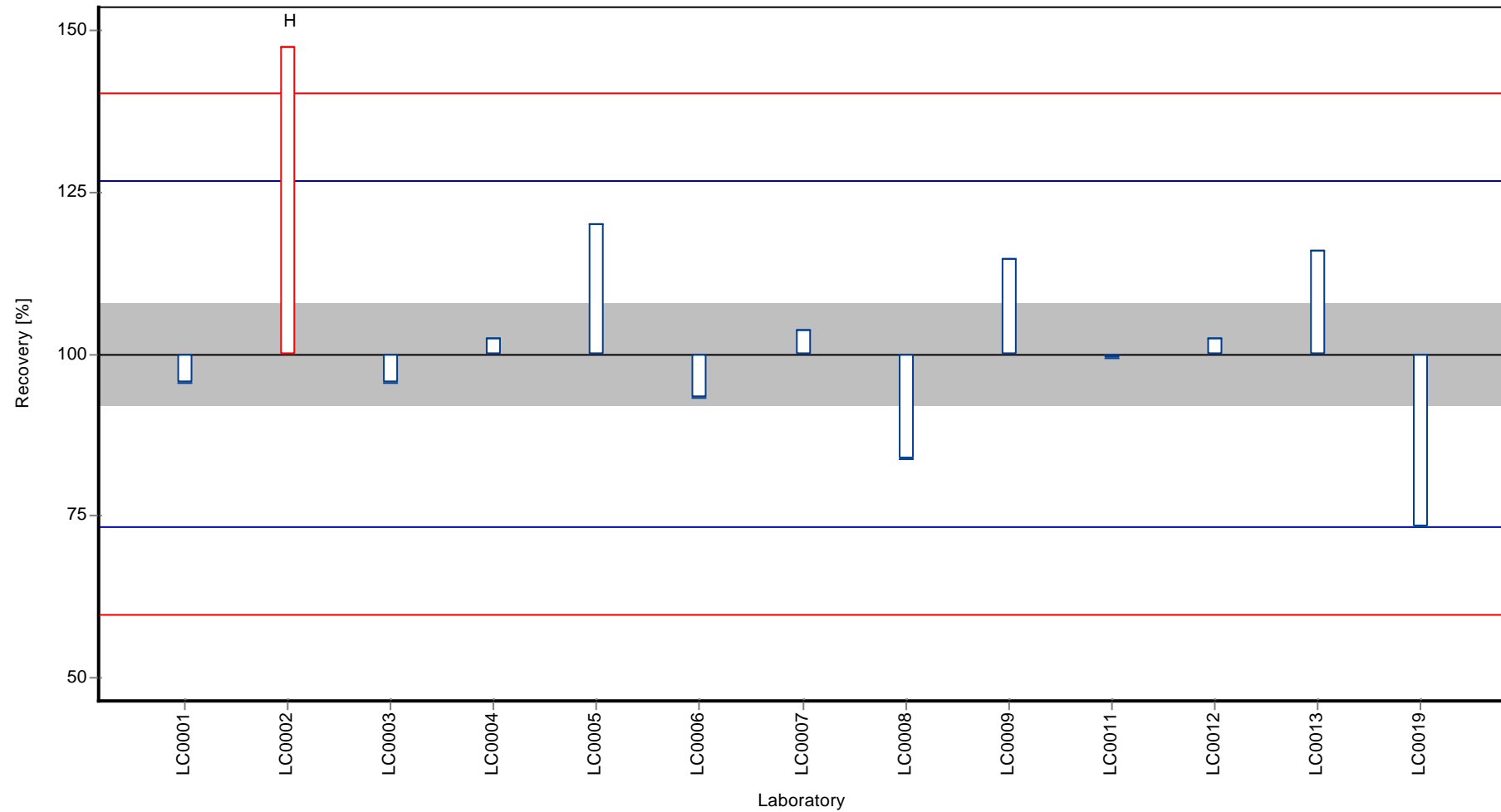
	all results	w ithout outliers	Unit
Mean ± CI (99%)	99.2 ± 14.6	95.7 ± 11.1	ng/l
Minimum	70.1	70.1	ng/l
Maximum	141	115	ng/l
Standard deviation	17.6	12.8	ng/l
rel. Standard deviation	17.7	13.4	%
n	13	12	-

Graphical presentation of results

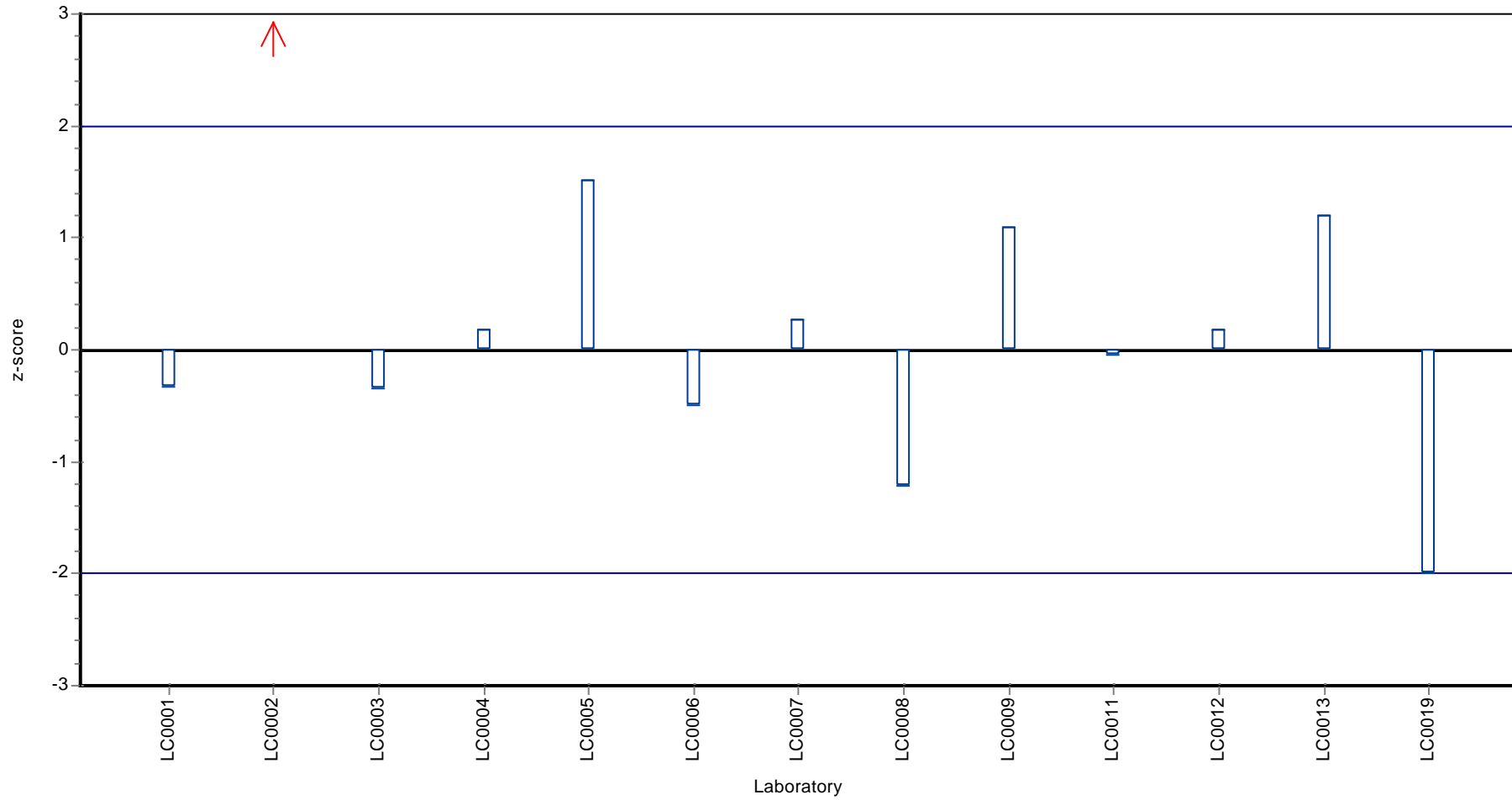
Results



Recovery rate



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons - P15

Sample: P15B, Parameter: Phenanthrene

Parameter oriented report

P15 B

Phenanthrene

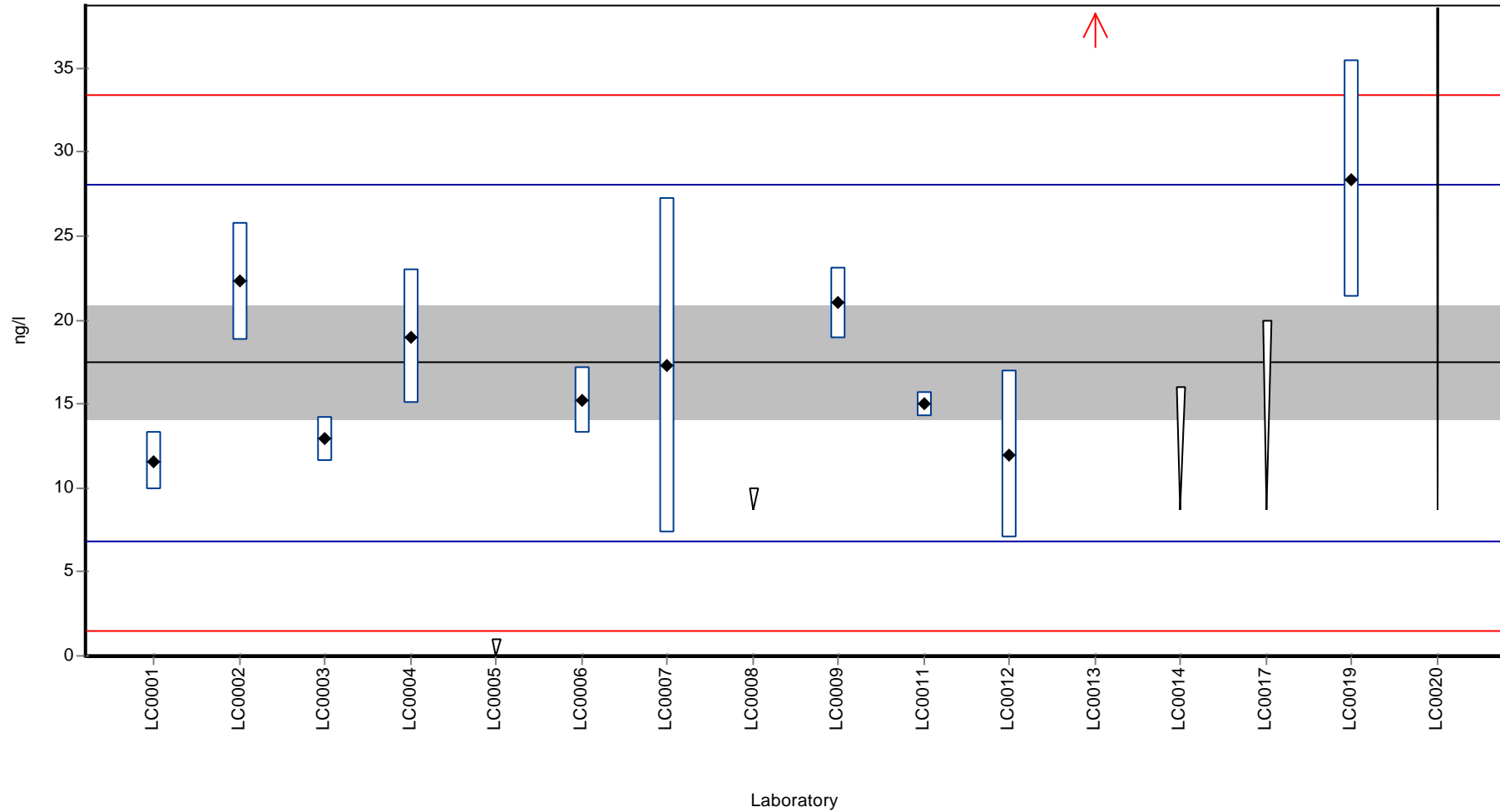
Unit	ng/l
Mean ± CI (99%)	17.5 ± 5.04
Minimum - Maximum	11.6 - 28.4
Check value ± U	16 ± 2.3

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	11.600	1.700	66.4	-1.1	
LC0002	22.300	3.500	127.6	0.9	
LC0003	12.900	1.300	73.8	-0.9	
LC0004	19.000	4.000	108.8	0.3	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	15.200	2.000	87.0	-0.4	
LC0007	17.300	10.000	99.0	0.0	
LC0008	< 10 (LOQ)	-	-	-	
LC0009	21.000	2.100	120.2	0.7	
LC0010	-	-	-	-	
LC0011	15.000	0.750	85.9	-0.5	
LC0012	12.000	5.000	68.7	-1.0	
LC0013	75.000	16.000	429.3	10.8	H
LC0014	<16 (LOD)	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	28.400	7.100	162.6	2.1	
LC0020	< 200 (LOQ)	-	-	-	

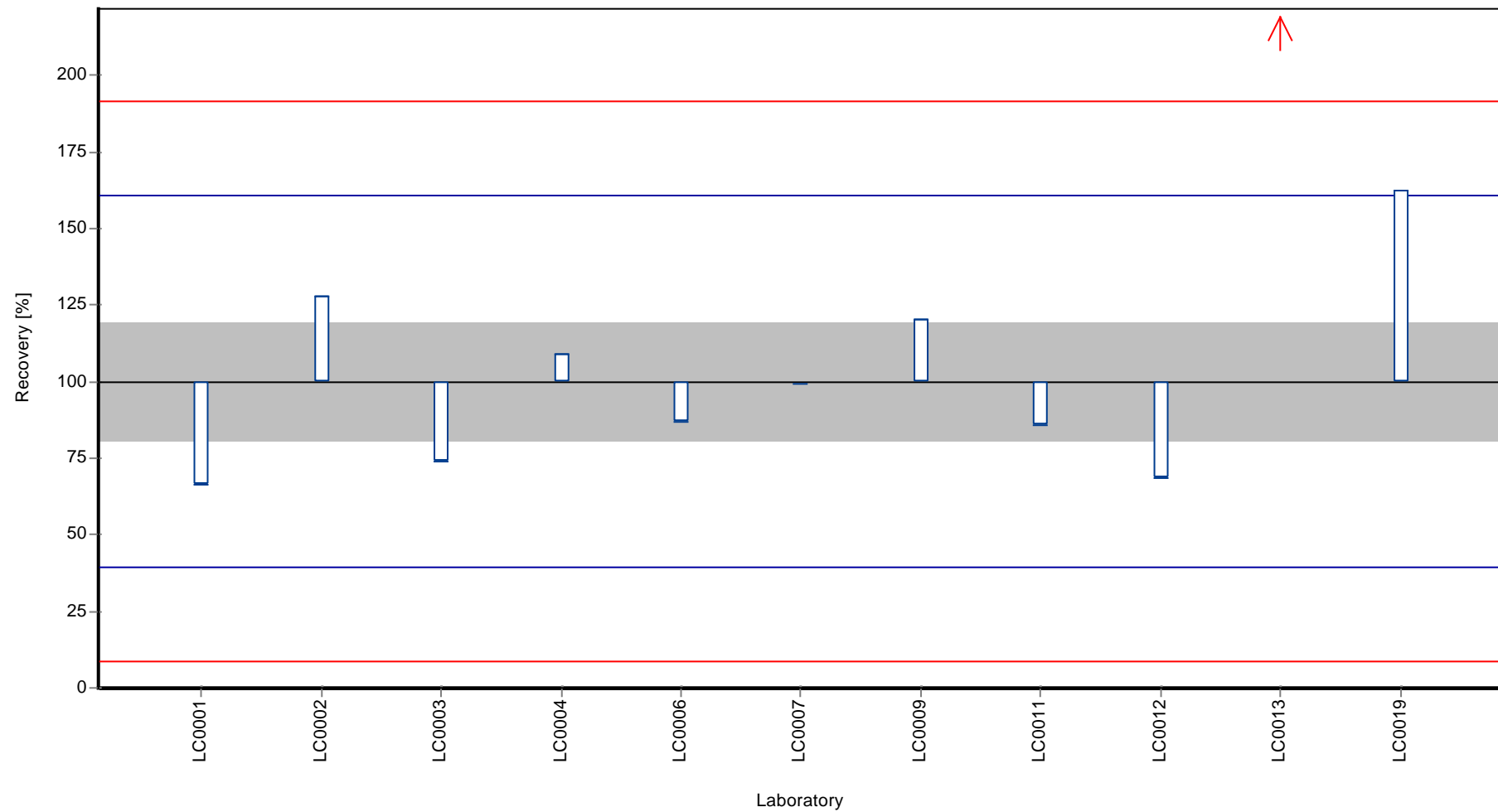
Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	22.7 ± 16.3	17.5 ± 5.04	ng/l
Minimum	11.6	11.6	ng/l
Maximum	75	28.4	ng/l
Standard deviation	18.1	5.31	ng/l
rel. Standard deviation	79.6	30.4	%
n	11	10	-

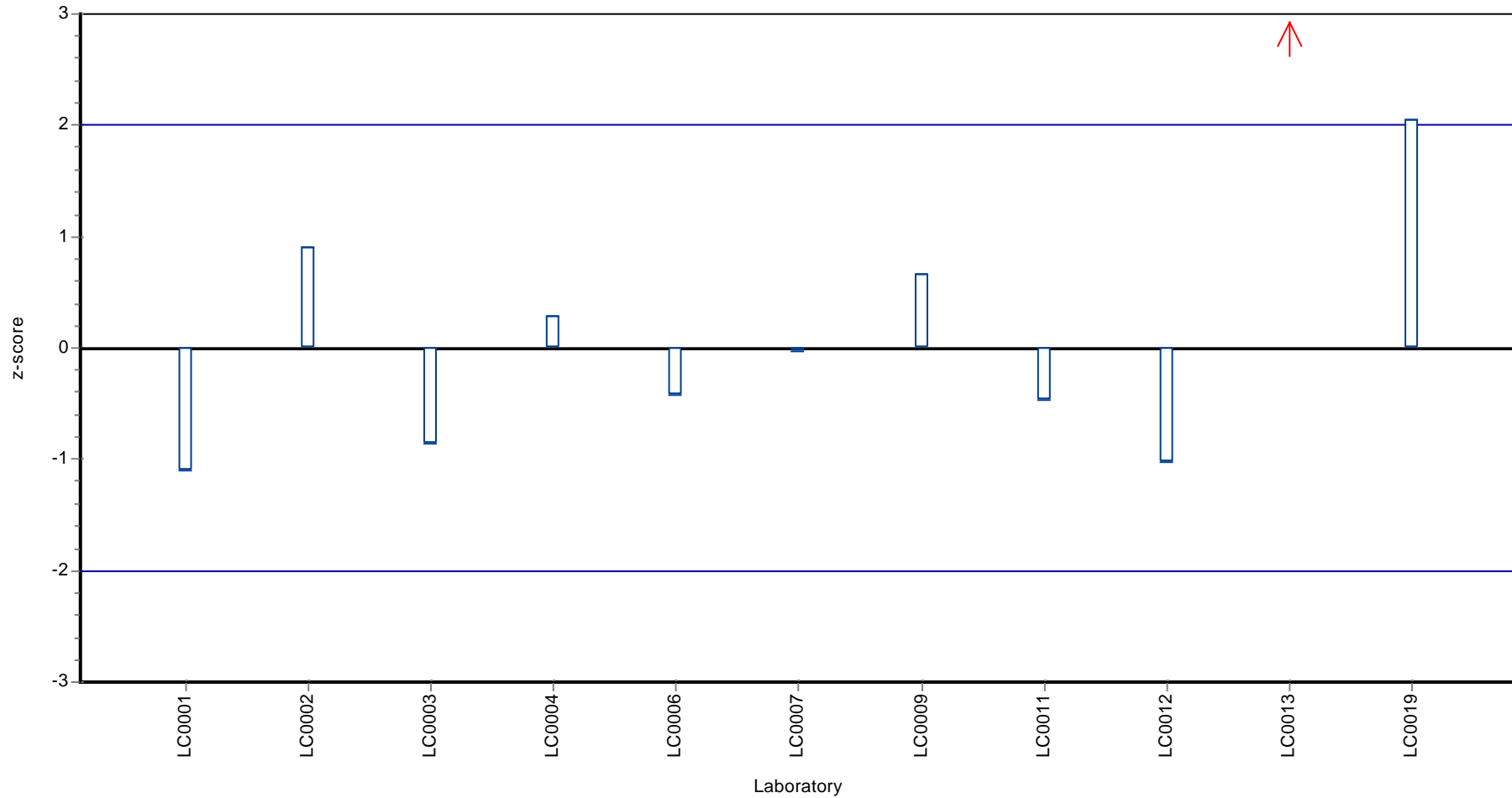
Graphical presentation of results
Results



Recovery rate



Z-score



Parameter oriented report

P15 A

Pyrene

Unit	ng/l
Mean ± CI (99%)	-
Minimum - Maximum	-
Check value ± U	< 1.8 (LOD)

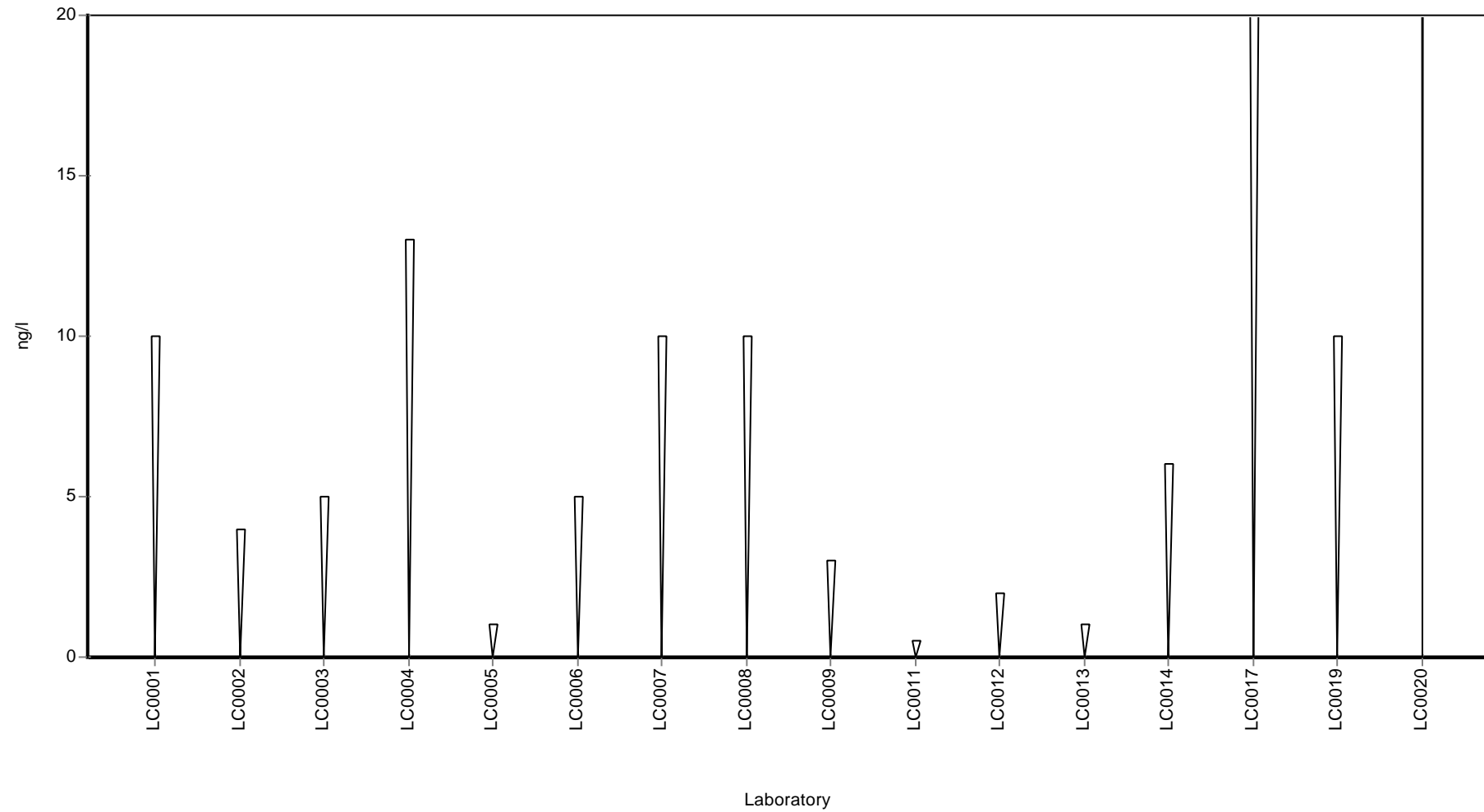
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	< 4 (LOQ)	-	-	-	
LC0003	< 5 (LOQ)	-	-	-	
LC0004	< 13 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 5 (LOQ)	-	-	-	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	< 10 (LOQ)	-	-	-	
LC0009	< 3 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	< 0.5 (LOQ)	-	-	-	
LC0012	< 2 (LOQ)	-	-	-	
LC0013	< 1 (LOQ)	-	-	-	
LC0014	<6 (LOD)	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 10 (LOQ)	-	-	-	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	-	-	ng/l
Minimum	-	-	ng/l
Maximum	-	-	ng/l
Standard deviation	-	-	ng/l
rel. Standard deviation	-	-	%
n	0	0	-

Graphical presentation of results

Results



Parameter oriented report

P15 B

Pyrene

Unit	ng/l
Mean ± CI (99%)	-
Minimum - Maximum	-
Check value ± U	< 1.8 (NG)

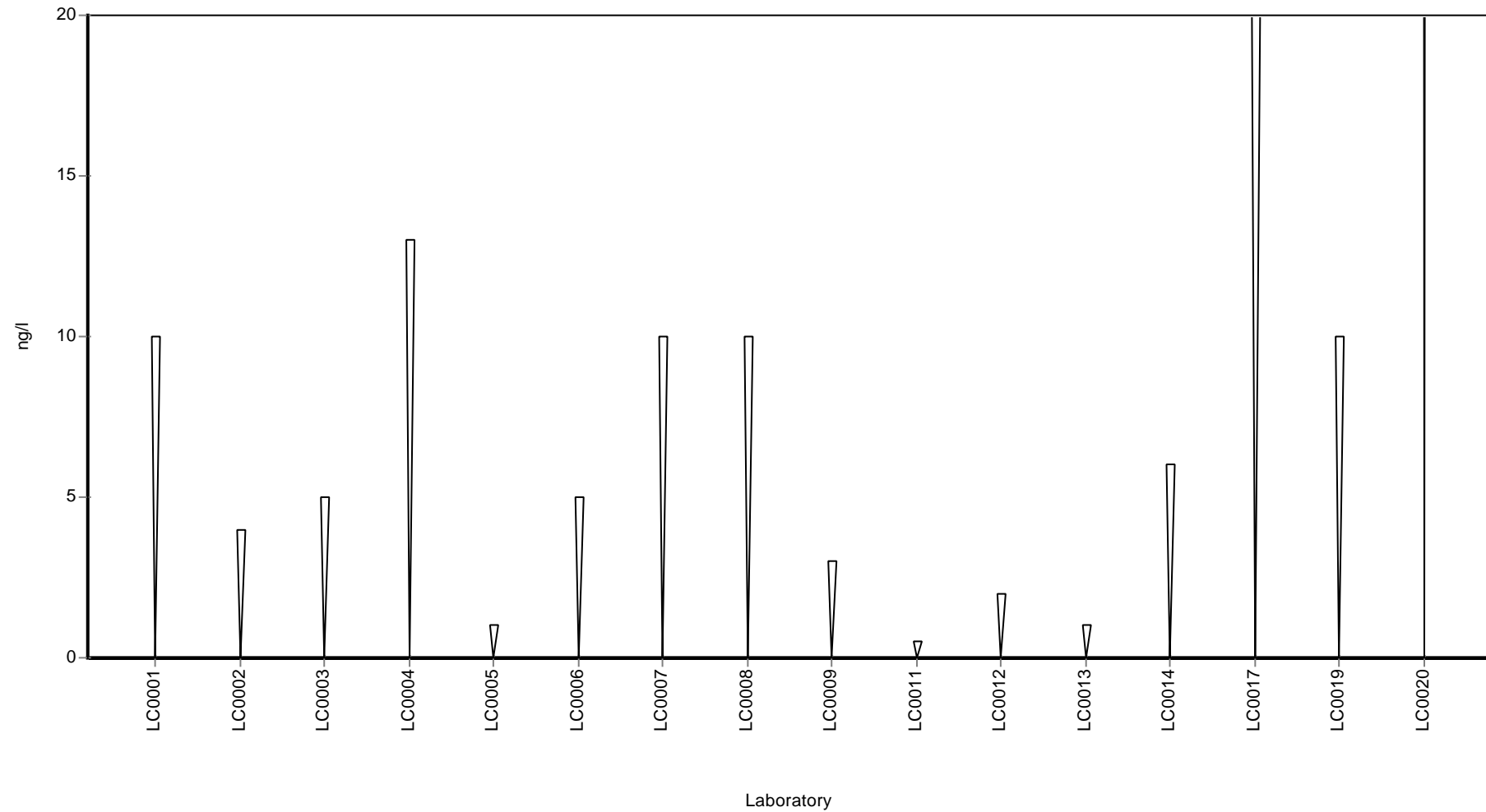
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 10 (LOQ)	-	-	-	
LC0002	< 4 (LOQ)	-	-	-	
LC0003	< 5 (LOQ)	-	-	-	
LC0004	< 13 (LOQ)	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 5 (LOQ)	-	-	-	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	< 10 (LOQ)	-	-	-	
LC0009	< 3 (LOQ)	-	-	-	
LC0010	-	-	-	-	
LC0011	< 0.5 (LOQ)	-	-	-	
LC0012	< 2 (LOQ)	-	-	-	
LC0013	< 1 (LOQ)	-	-	-	
LC0014	<6 (LOD)	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 20 (LOQ)	-	-	-	
LC0018	-	-	-	-	
LC0019	< 10 (LOQ)	-	-	-	
LC0020	< 200 (LOQ)	-	-	-	

Characteristics of parameter

	all results	w ithout outliers	Unit
Mean ± CI (99%)	-	-	ng/l
Minimum	-	-	ng/l
Maximum	-	-	ng/l
Standard deviation	-	-	ng/l
rel. Standard deviation	-	-	%
n	0	0	-

Graphical presentation of results

Results



8 Laboratory oriented report

The laboratory oriented report is sorted by laboratory code.

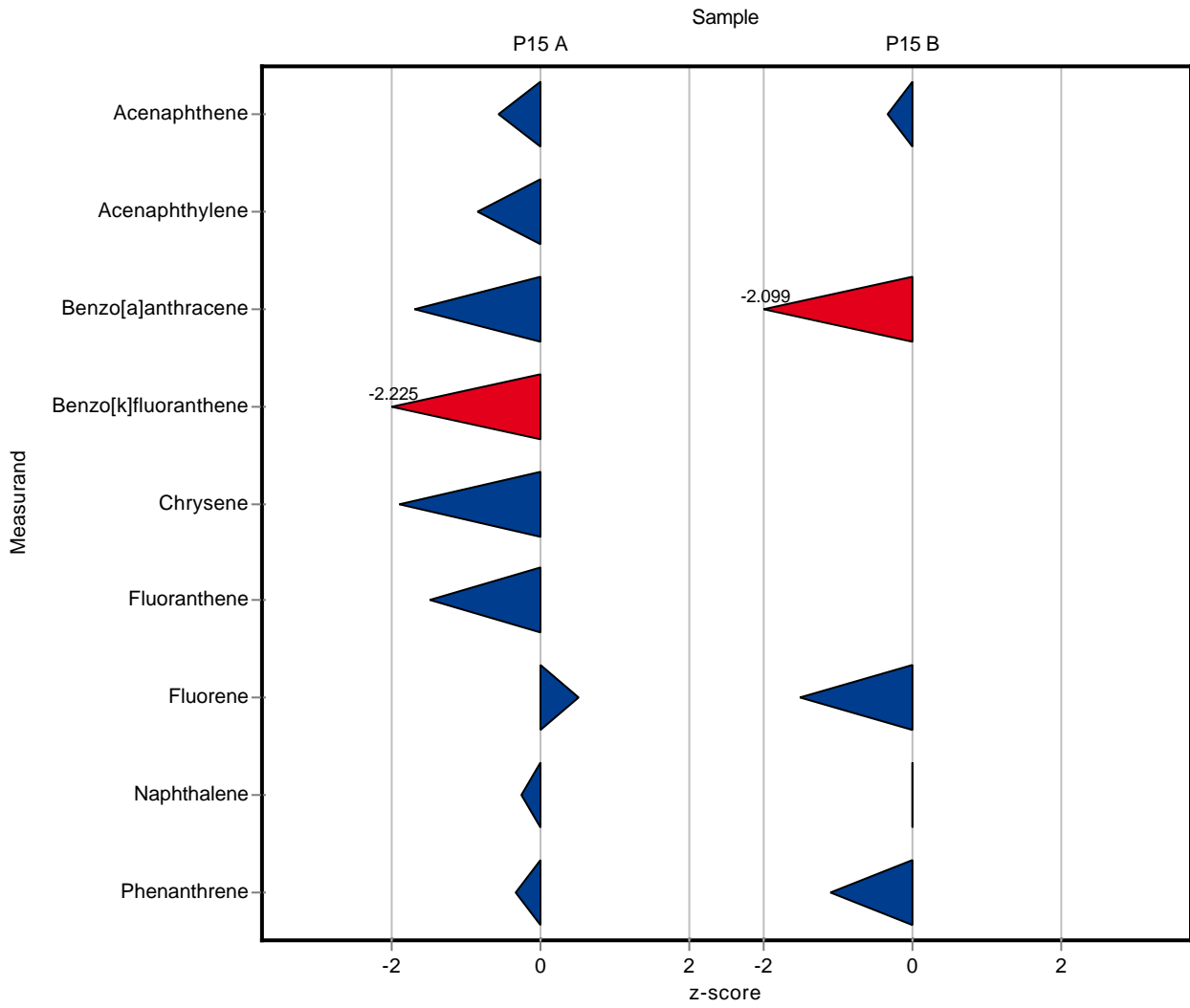
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	44.9	6.7	9.53	89.4	-0.56
Acenaphthylene	ng/l	84.2	± 18.1	65.9	9.9	21.8	78.3	-0.84
Anthracene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	39.9	6	38.3	37.9	-1.71
Benzo[a]pyrene	ng/l	33.3	± 11.9	<10 (LOQ)	-	14.8	-	-
Benzo[b]fluoranthene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	44	6.6	36.5	35.2	-2.23
Chrysene	ng/l	109	± 16	72.1	10.8	19.3	66.2	-1.91
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	<10 (LOQ)	-	26	-	-
Fluoranthene	ng/l	55.4	± 6.72	42.4	6.4	8.68	76.6	-1.49
Fluorene	ng/l	174	± 26.3	192	28.9	33.9	110.1	0.52
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	<10 (LOQ)	-	14.2	-	-
Naphthalene	ng/l	63.5	± 12.7	59.3	8.9	15.9	93.3	-0.27
Phenanthrene	ng/l	95.7	± 11.1	91.4	13.7	12.8	95.5	-0.33
Pyrene	ng/l	-	± -	<10 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	126	18.9	22.8	94.2	-0.34
Acenaphthylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Anthracene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	11.7	1.8	9.3	37.5	-2.10
Benzo[a]pyrene	ng/l	6.77	± 3.27	<10 (LOQ)	-	3.45	-	-
Benzo[b]fluoranthene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	<10 (LOQ)	-	2.76	-	-
Chrysene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	<10 (LOQ)	-	5.62	-	-
Fluoranthene	ng/l	6.21	± 1.45	<10 (LOQ)	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	44.8	6.7	11.3	72.6	-1.50
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	<10 (LOQ)	-	4.46	-	-
Naphthalene	ng/l	92	± 22.4	92.4	13.9	26.9	100.4	0.01
Phenanthrene	ng/l	17.5	± 5.04	11.6	1.7	5.31	66.4	-1.10
Pyrene	ng/l	-	± -	<10 (LOQ)	-	-	-	-



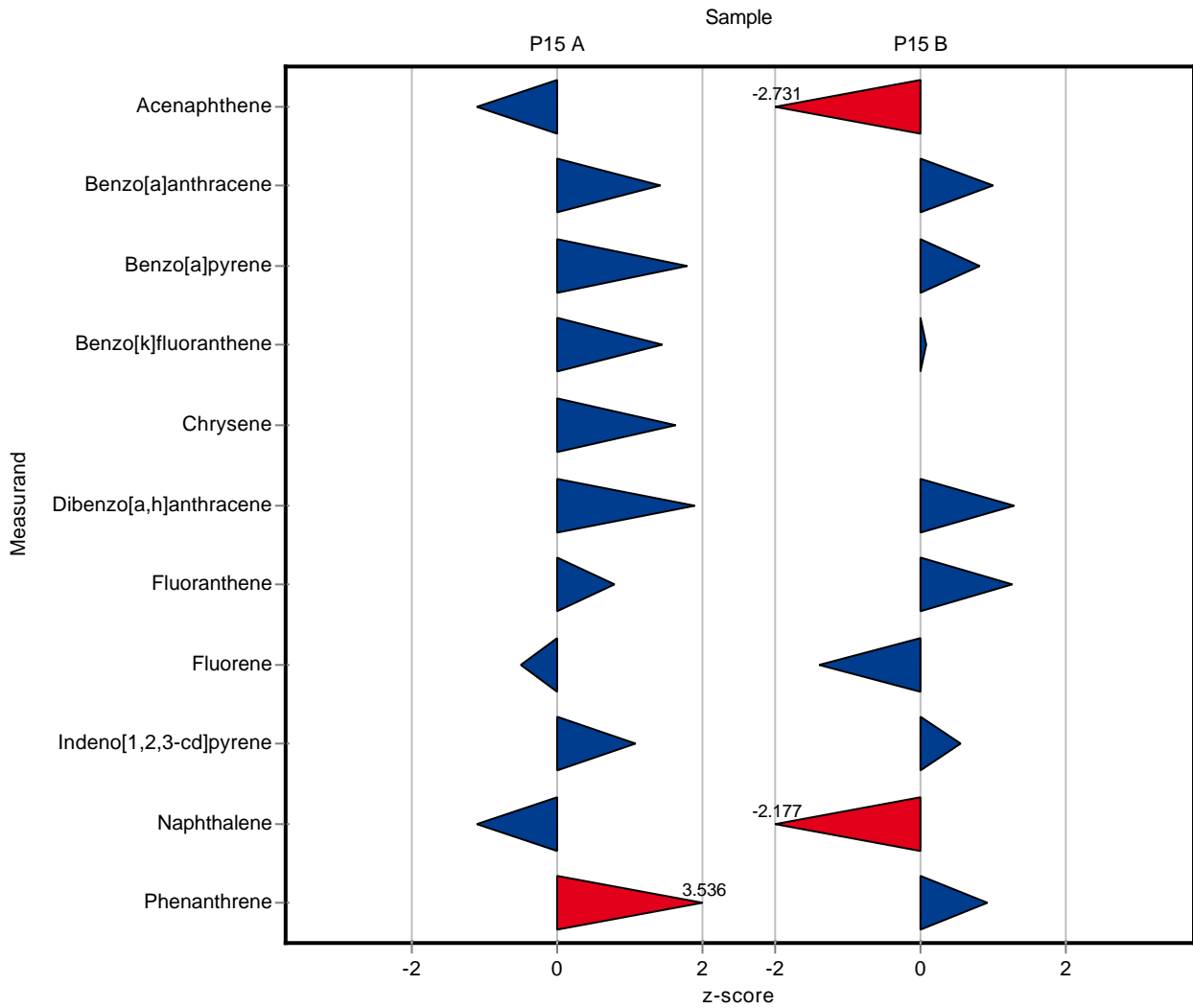
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	39.6	5.8	9.53	78.9	-1.11
Acenaphthylene	ng/l	84.2	± 18.1	<500 (LOQ)	-	21.8	-	-
Anthracene	ng/l	-	± -	<4 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	159	16	38.3	151.1	1.40
Benzo[a]pyrene	ng/l	33.3	± 11.9	59.5	5.3	14.8	178.4	1.77
Benzo[b]fluoranthene	ng/l	-	± -	<4 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<4 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	177	19	36.5	141.4	1.42
Chrysene	ng/l	109	± 16	140	12	19.3	128.6	1.62
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	168	21	26	141.0	1.88
Fluoranthene	ng/l	55.4	± 6.72	62	4.9	8.68	112.0	0.76
Fluorene	ng/l	174	± 26.3	157	16	33.9	90.0	-0.51
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	72.6	11.3	14.2	126.5	1.07
Naphthalene	ng/l	63.5	± 12.7	45.7	8.2	15.9	71.9	-1.12
Phenanthrene	ng/l	95.7	± 11.1	141	18	12.8	147.4	3.54
Pyrene	ng/l	-	± -	<4 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	71.5	6.5	22.8	53.5	-2.73
Acenaphthylene	ng/l	-	± -	<500 (LOQ)	-	-	-	-
Anthracene	ng/l	-	± -	<4 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	40.5	6.1	9.3	129.7	1.00
Benzo[a]pyrene	ng/l	6.77	± 3.27	9.5	1.6	3.45	140.4	0.79
Benzo[b]fluoranthene	ng/l	-	± -	<4 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<4 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	7.9	1.4	2.76	102.7	0.08
Chrysene	ng/l	-	± -	4.4	0.9	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	28.1	4.3	5.62	134.1	1.27
Fluoranthene	ng/l	6.21	± 1.45	7.8	1.3	1.28	125.7	1.24
Fluorene	ng/l	61.7	± 8.74	45.8	5.1	11.3	74.2	-1.41
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	16.2	2.5	4.46	117.5	0.54
Naphthalene	ng/l	92	± 22.4	33.4	4.9	26.9	36.3	-2.18
Phenanthrene	ng/l	17.5	± 5.04	22.3	3.5	5.31	127.6	0.91
Pyrene	ng/l	-	± -	<4 (LOQ)	-	-	-	-



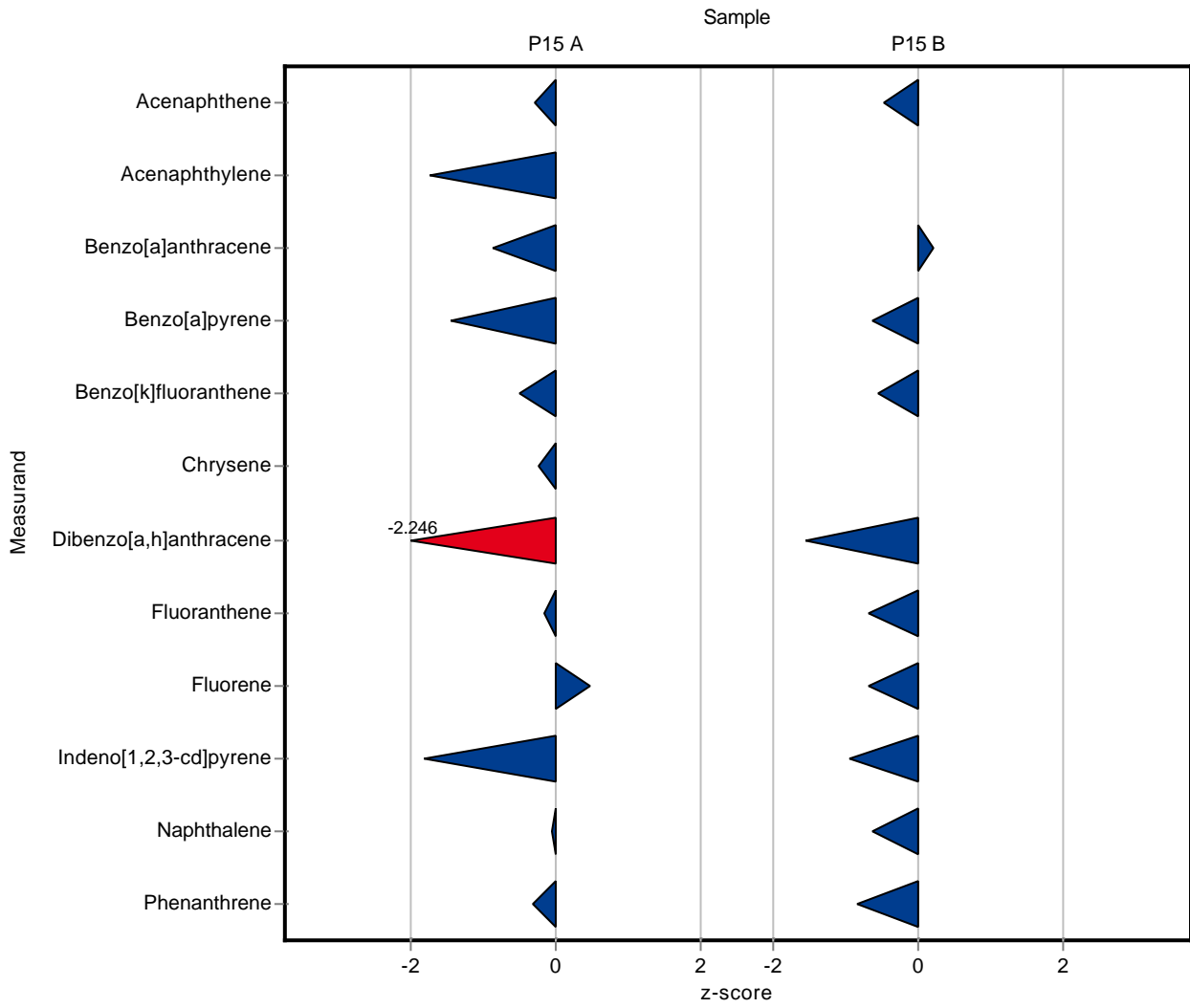
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	47.4	4.7	9.53	94.4	-0.30
Acenaphthylene	ng/l	84.2	± 18.1	46.3	-	21.8	55.0	-1.74
Anthracene	ng/l	-	± -	<5 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	71.1	7.1	38.3	67.6	-0.89
Benzo[a]pyrene	ng/l	33.3	± 11.9	11.8	1.2	14.8	35.4	-1.45
Benzo[b]fluoranthene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	106.5	10.6	36.5	85.1	-0.51
Chrysene	ng/l	109	± 16	103.8	10.4	19.3	95.4	-0.26
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	60.8	6.1	26	51.0	-2.25
Fluoranthene	ng/l	55.4	± 6.72	53.8	5.4	8.68	97.2	-0.18
Fluorene	ng/l	174	± 26.3	190.4	19	33.9	109.1	0.47
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	31.3	6.3	14.2	54.5	-1.84
Naphthalene	ng/l	63.5	± 12.7	62.6	6.3	15.9	98.5	-0.06
Phenanthrene	ng/l	95.7	± 11.1	91.3	9.1	12.8	95.4	-0.34
Pyrene	ng/l	-	± -	<5 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	122.6	12.3	22.8	91.7	-0.49
Acenaphthylene	ng/l	-	± -	<100 (LOQ)	-	-	-	-
Anthracene	ng/l	-	± -	<5 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	33.1	3.3	9.3	106.0	0.20
Benzo[a]pyrene	ng/l	6.77	± 3.27	4.5	0.4	3.45	66.5	-0.66
Benzo[b]fluoranthene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	6.1	0.6	2.76	79.3	-0.58
Chrysene	ng/l	-	± -	<5 (LOQ)	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	12.1	1.2	5.62	57.7	-1.58
Fluoranthene	ng/l	6.21	± 1.45	5.3	-	1.28	85.4	-0.71
Fluorene	ng/l	61.7	± 8.74	53.9	5.4	11.3	87.3	-0.69
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	9.5	-	4.46	68.9	-0.96
Naphthalene	ng/l	92	± 22.4	74.4	7.4	26.9	80.8	-0.65
Phenanthrene	ng/l	17.5	± 5.04	12.9	1.3	5.31	73.8	-0.86
Pyrene	ng/l	-	± -	<5 (LOQ)	-	-	-	-



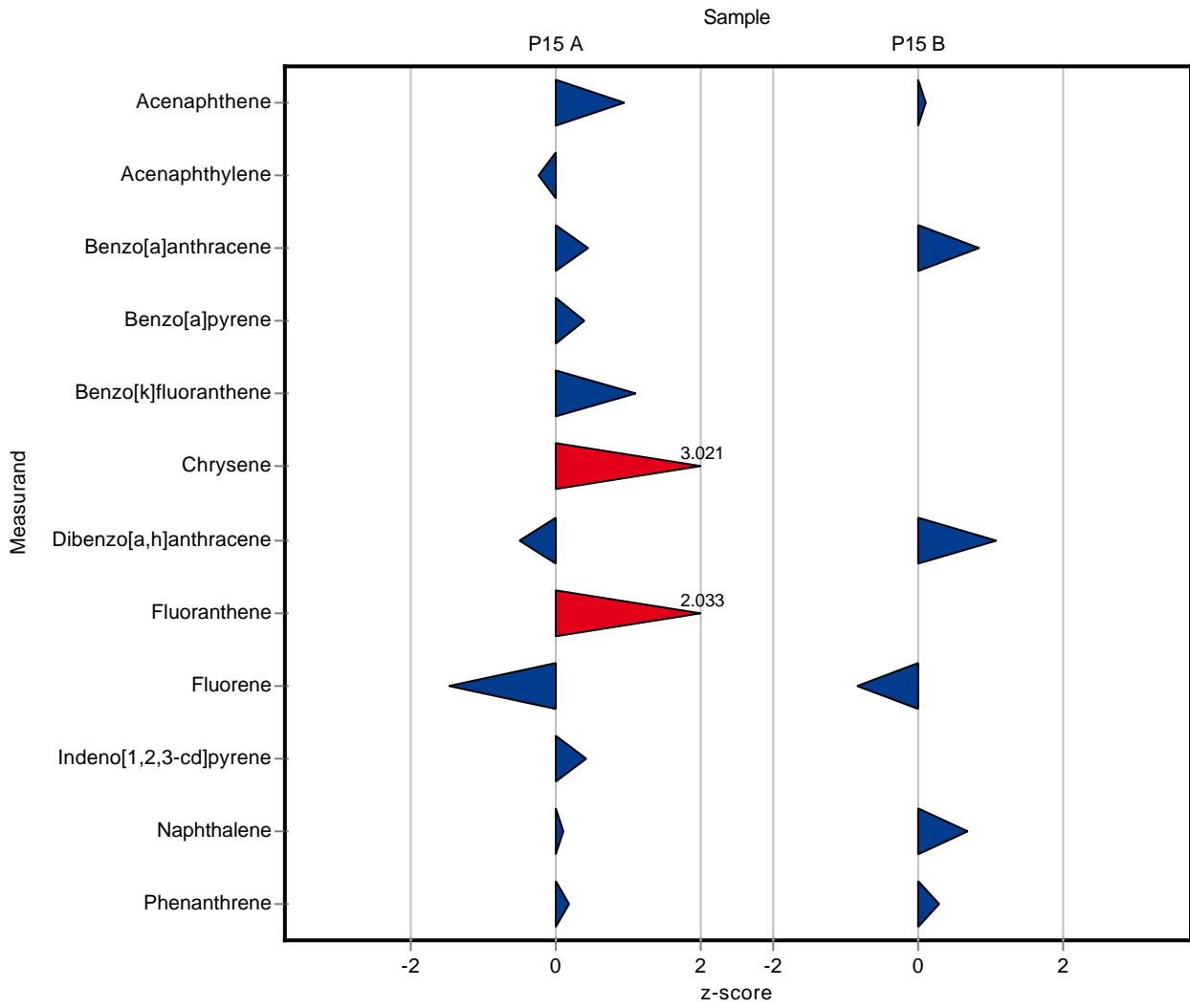
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	59	12	9.53	117.5	0.92
Acenaphthylene	ng/l	84.2	± 18.1	79	16	21.8	93.9	-0.24
Anthracene	ng/l	-	± -	<21 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	122	24	38.3	115.9	0.44
Benzo[a]pyrene	ng/l	33.3	± 11.9	39	8	14.8	117.0	0.38
Benzo[b]fluoranthene	ng/l	-	± -	<13 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	165	33	36.5	131.9	1.09
Chrysene	ng/l	109	± 16	167	33	19.3	153.4	3.02
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	106	21	26	89.0	-0.51
Fluoranthene	ng/l	55.4	± 6.72	73	15	8.68	131.9	2.03
Fluorene	ng/l	174	± 26.3	124	25	33.9	71.1	-1.49
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	63	13	14.2	109.8	0.40
Naphthalene	ng/l	63.5	± 12.7	65	13	15.9	102.3	0.09
Phenanthrene	ng/l	95.7	± 11.1	98	20	12.8	102.4	0.18
Pyrene	ng/l	-	± -	<13 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	136	27	22.8	101.7	0.10
Acenaphthylene	ng/l	-	± -	16	3	-	-	-
Anthracene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	39	8	9.3	124.9	0.84
Benzo[a]pyrene	ng/l	6.77	± 3.27	<10 (LOQ)	-	3.45	-	-
Benzo[b]fluoranthene	ng/l	-	± -	<13 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	<13 (LOQ)	-	2.76	-	-
Chrysene	ng/l	-	± -	<11 (LOQ)	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	27	5	5.62	128.8	1.07
Fluoranthene	ng/l	6.21	± 1.45	<8 (LOQ)	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	52	10	11.3	84.2	-0.86
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	<9 (LOQ)	-	4.46	-	-
Naphthalene	ng/l	92	± 22.4	110	22	26.9	119.5	0.67
Phenanthrene	ng/l	17.5	± 5.04	19	4	5.31	108.8	0.29
Pyrene	ng/l	-	± -	<13 (LOQ)	-	-	-	-



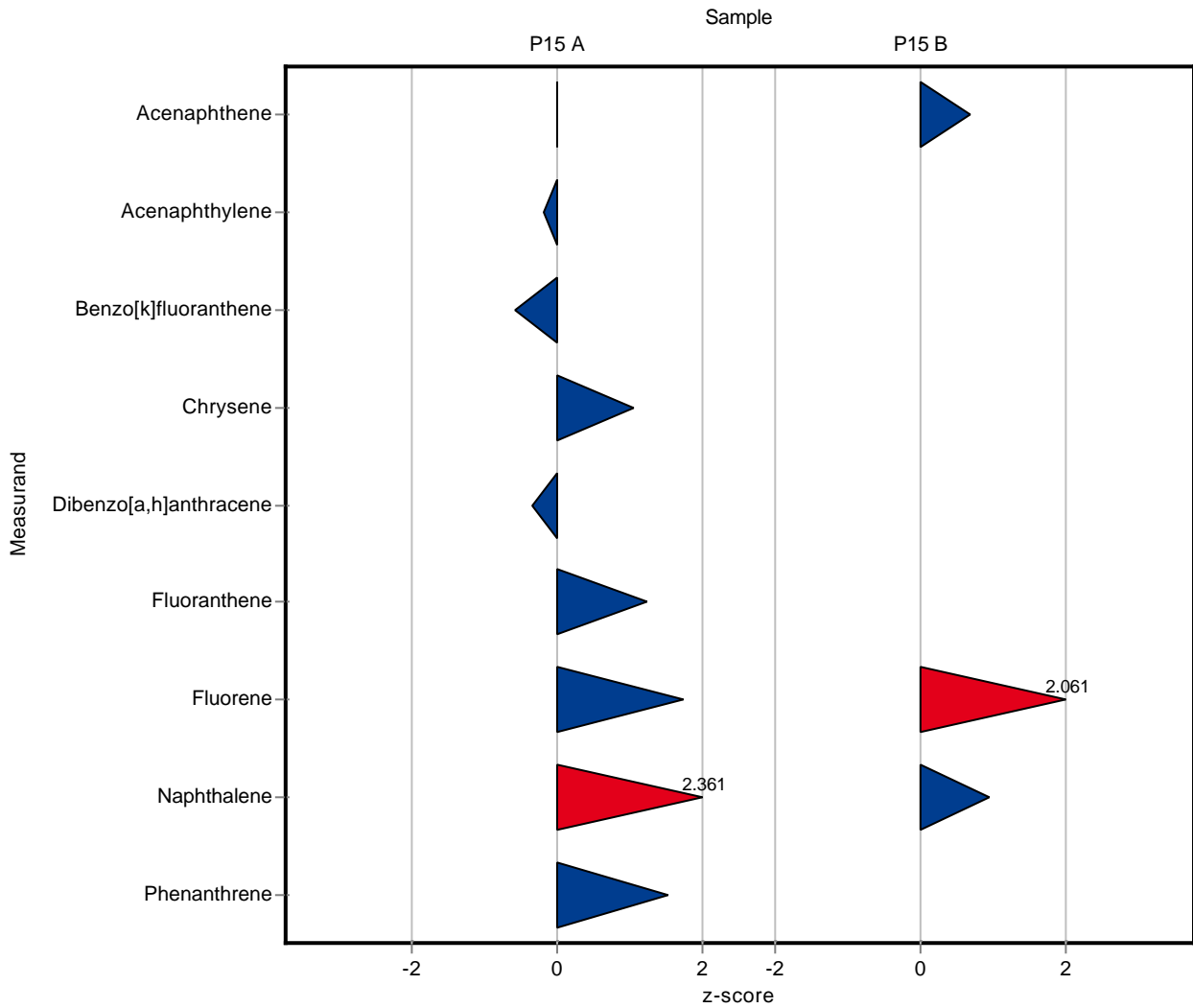
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	50	5	9.53	99.6	-0.02
Acenaphthylene	ng/l	84.2	± 18.1	80	8	21.8	95.0	-0.19
Anthracene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	<1 (LOQ)	-	38.3	-	-
Benzo[a]pyrene	ng/l	33.3	± 11.9	<1 (LOQ)	-	14.8	-	-
Benzo[b]fluoranthene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	104	10	36.5	83.1	-0.58
Chrysene	ng/l	109	± 16	129	13	19.3	118.5	1.05
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	110	11	26	92.3	-0.35
Fluoranthene	ng/l	55.4	± 6.72	66	7	8.68	119.2	1.23
Fluorene	ng/l	174	± 26.3	233	23	33.9	133.6	1.73
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	<1 (LOQ)	-	14.2	-	-
Naphthalene	ng/l	63.5	± 12.7	101	10	15.9	159.0	2.36
Phenanthrene	ng/l	95.7	± 11.1	115	12	12.8	120.2	1.51
Pyrene	ng/l	-	± -	<1 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	149	15	22.8	111.4	0.67
Acenaphthylene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Anthracene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	<1 (LOQ)	-	9.3	-	-
Benzo[a]pyrene	ng/l	6.77	± 3.27	<1 (LOQ)	-	3.45	-	-
Benzo[b]fluoranthene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	<1 (LOQ)	-	2.76	-	-
Chrysene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	<1 (LOQ)	-	5.62	-	-
Fluoranthene	ng/l	6.21	± 1.45	<1 (LOQ)	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	85	9	11.3	137.7	2.06
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	<1 (LOQ)	-	4.46	-	-
Naphthalene	ng/l	92	± 22.4	117	12	26.9	127.1	0.93
Phenanthrene	ng/l	17.5	± 5.04	<1 (LOQ)	-	5.31	-	-
Pyrene	ng/l	-	± -	<1 (LOQ)	-	-	-	-



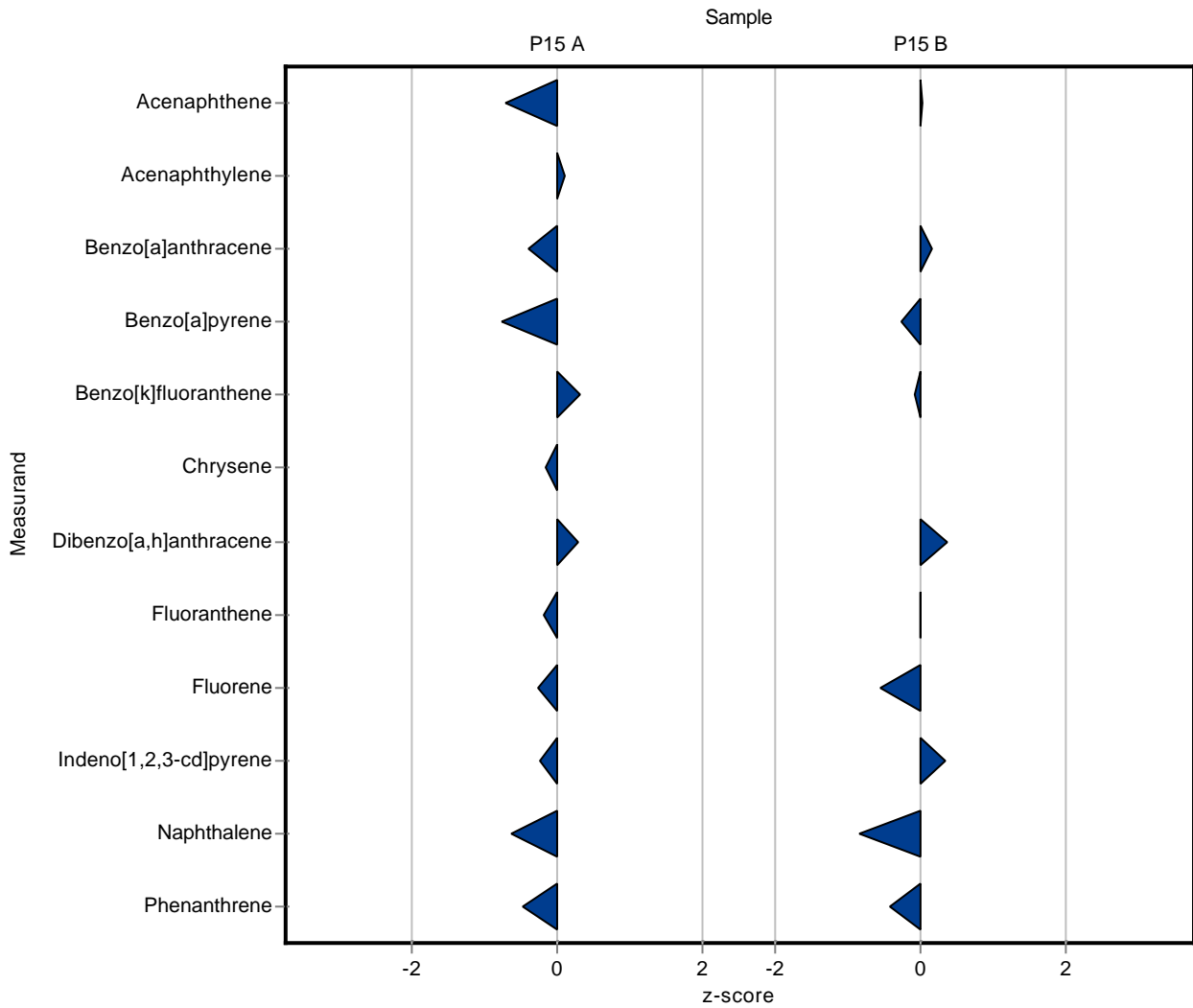
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	43.4	4	9.53	86.4	-0.71
Acenaphthylene	ng/l	84.2	± 18.1	86.4	9	21.8	102.6	0.10
Anthracene	ng/l	-	± -	<5 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	89.4	9	38.3	85.0	-0.41
Benzo[a]pyrene	ng/l	33.3	± 11.9	21.9	2	14.8	65.7	-0.77
Benzo[b]fluoranthene	ng/l	-	± -	<5 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<5 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	136.1	14	36.5	108.8	0.30
Chrysene	ng/l	109	± 16	105.5	11	19.3	96.9	-0.17
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	126.5	13	26	106.2	0.28
Fluoranthene	ng/l	55.4	± 6.72	53.7	5	8.68	97.0	-0.19
Fluorene	ng/l	174	± 26.3	165	16	33.9	94.6	-0.28
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	54	5	14.2	94.1	-0.24
Naphthalene	ng/l	63.5	± 12.7	53.1	5	15.9	83.6	-0.66
Phenanthrene	ng/l	95.7	± 11.1	89.3	9	12.8	93.3	-0.50
Pyrene	ng/l	-	± -	<5 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	134.3	13	22.8	100.4	0.02
Acenaphthylene	ng/l	-	± -	<5 (LOQ)	-	-	-	-
Anthracene	ng/l	-	± -	<5 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	32.6	3	9.3	104.4	0.15
Benzo[a]pyrene	ng/l	6.77	± 3.27	5.8	6	3.45	85.7	-0.28
Benzo[b]fluoranthene	ng/l	-	± -	<5 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<5 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	7.4	7	2.76	96.2	-0.10
Chrysene	ng/l	-	± -	<5 (LOQ)	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	23	2	5.62	109.7	0.36
Fluoranthene	ng/l	6.21	± 1.45	6.2	6	1.28	99.9	-0.01
Fluorene	ng/l	61.7	± 8.74	55.4	6	11.3	89.7	-0.56
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	15.3	2	4.46	111.0	0.34
Naphthalene	ng/l	92	± 22.4	69	7	26.9	75.0	-0.86
Phenanthrene	ng/l	17.5	± 5.04	15.2	2	5.31	87.0	-0.43
Pyrene	ng/l	-	± -	<5 (LOQ)	-	-	-	-



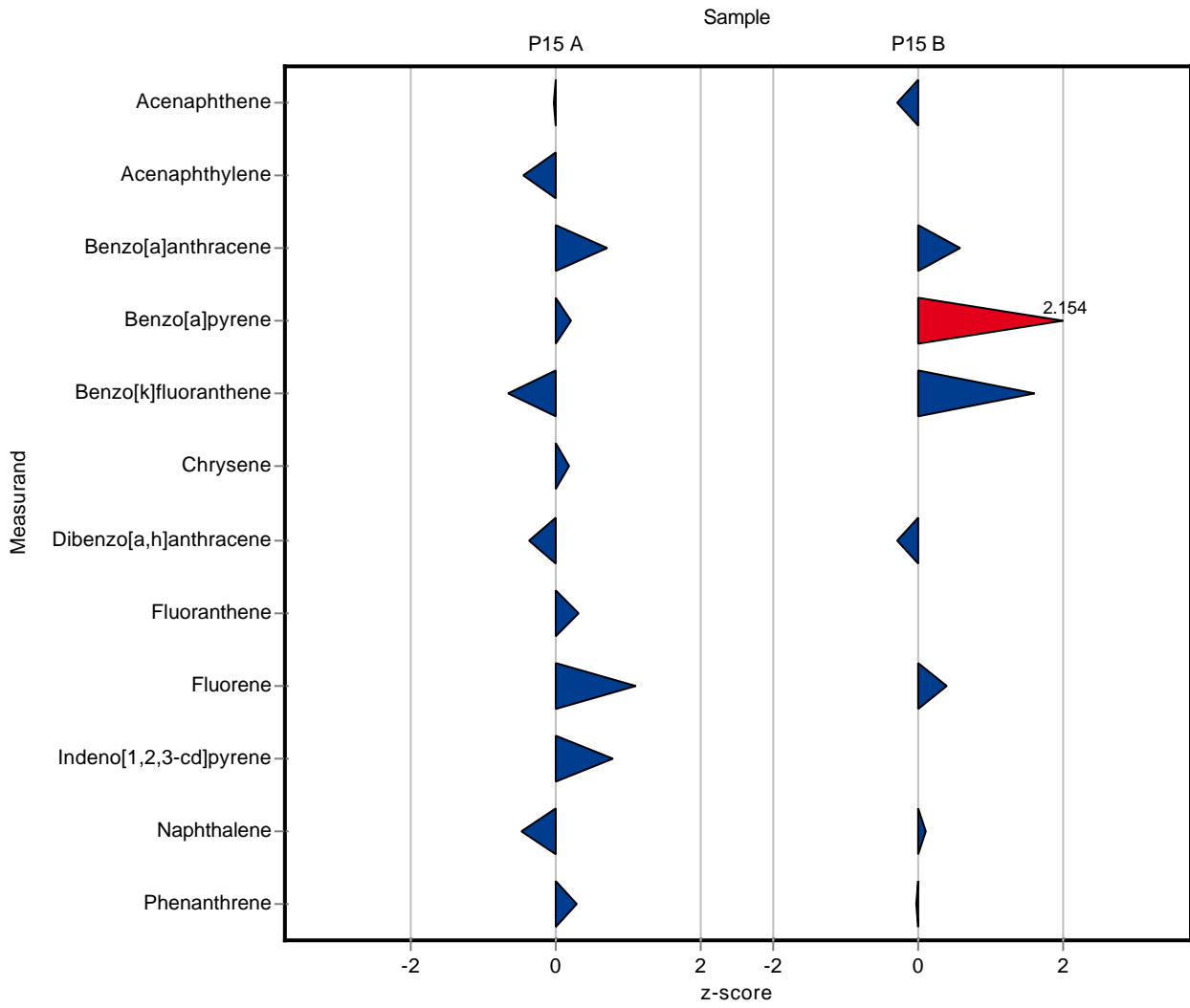
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	49.8	10	9.53	99.2	-0.04
Acenaphthylene	ng/l	84.2	± 18.1	74	10	21.8	87.9	-0.47
Anthracene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	132.1	25	38.3	125.5	0.70
Benzo[a]pyrene	ng/l	33.3	± 11.9	36.1	10	14.8	108.3	0.19
Benzo[b]fluoranthene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	100.8	12	36.5	80.6	-0.67
Chrysene	ng/l	109	± 16	112.1	10	19.3	103.0	0.17
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	109.3	22	26	91.8	-0.38
Fluoranthene	ng/l	55.4	± 6.72	57.9	18	8.68	104.6	0.29
Fluorene	ng/l	174	± 26.3	211.5	25	33.9	121.2	1.09
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	68.3	20	14.2	119.0	0.77
Naphthalene	ng/l	63.5	± 12.7	56	10	15.9	88.1	-0.47
Phenanthrene	ng/l	95.7	± 11.1	99.1	15	12.8	103.6	0.27
Pyrene	ng/l	-	± -	<10 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	126.8	20	22.8	94.8	-0.31
Acenaphthylene	ng/l	-	± -	11.3	8	-	-	-
Anthracene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	36.4	10	9.3	116.6	0.56
Benzo[a]pyrene	ng/l	6.77	± 3.27	14.2	10	3.45	209.9	2.15
Benzo[b]fluoranthene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	12.1	8	2.76	157.4	1.60
Chrysene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	19.3	15	5.62	92.1	-0.30
Fluoranthene	ng/l	6.21	± 1.45	<10 (LOQ)	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	66.1	18	11.3	107.1	0.39
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	<20 (LOQ)	-	4.46	-	-
Naphthalene	ng/l	92	± 22.4	94.4	15	26.9	102.6	0.09
Phenanthrene	ng/l	17.5	± 5.04	17.3	10	5.31	99.0	-0.03
Pyrene	ng/l	-	± -	<10 (LOQ)	-	-	-	-



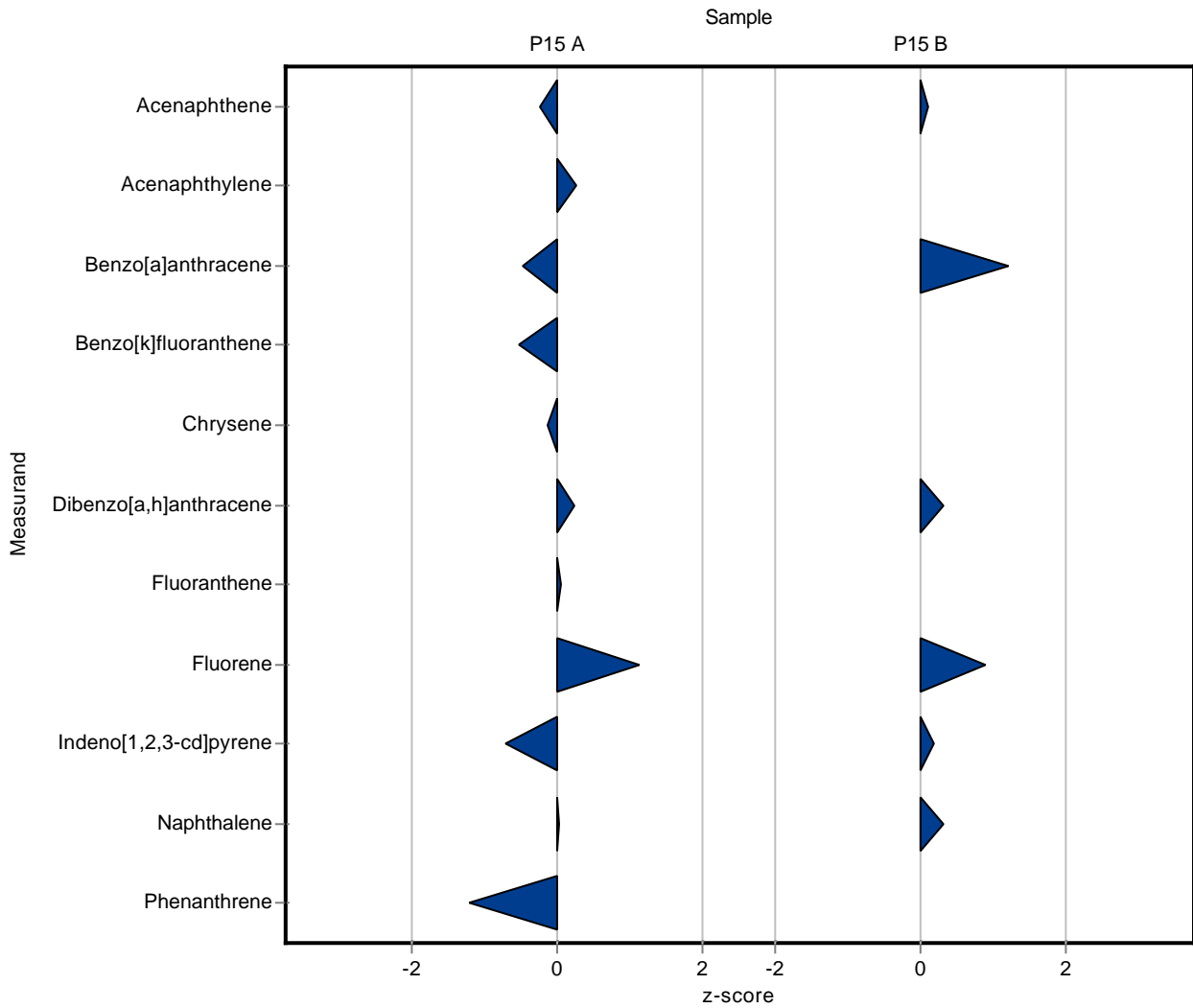
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	47.91	0.0006	9.53	95.4	-0.24
Acenaphthylene	ng/l	84.2	± 18.1	89.78	0.0012	21.8	106.7	0.26
Anthracene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	87.07	0.0033	38.3	82.7	-0.47
Benzo[a]pyrene	ng/l	33.3	± 11.9	<20 (LOQ)	-	14.8	-	-
Benzo[b]fluoranthene	ng/l	-	± -	<20 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	105.69	0.0013	36.5	84.5	-0.53
Chrysene	ng/l	109	± 16	106.02	0.0023	19.3	97.4	-0.15
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	125.21	0.0102	26	105.1	0.23
Fluoranthene	ng/l	55.4	± 6.72	55.75	0.0023	8.68	100.7	0.04
Fluorene	ng/l	174	± 26.3	212.15	0.0077	33.9	121.6	1.11
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	47.25	0.0041	14.2	82.3	-0.71
Naphthalene	ng/l	63.5	± 12.7	63.93	0.0004	15.9	100.6	0.03
Phenanthrene	ng/l	95.7	± 11.1	80.02	0.0043	12.8	83.6	-1.22
Pyrene	ng/l	-	± -	<10 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	135.83	0.009	22.8	101.5	0.09
Acenaphthylene	ng/l	-	± -	7.61	0.007	-	-	-
Anthracene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	42.32	0.009	9.3	135.5	1.19
Benzo[a]pyrene	ng/l	6.77	± 3.27	<20 (LOQ)	-	3.45	-	-
Benzo[b]fluoranthene	ng/l	-	± -	<20 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	<20 (LOQ)	-	2.76	-	-
Chrysene	ng/l	-	± -	<30 (LOQ)	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	22.72	0.007	5.62	108.4	0.31
Fluoranthene	ng/l	6.21	± 1.45	<20 (LOQ)	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	71.59	-	11.3	116.0	0.87
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	14.52	0.002	4.46	105.4	0.17
Naphthalene	ng/l	92	± 22.4	100.06	0.004	26.9	108.7	0.30
Phenanthrene	ng/l	17.5	± 5.04	<10 (LOQ)	-	5.31	-	-
Pyrene	ng/l	-	± -	<10 (LOQ)	-	-	-	-



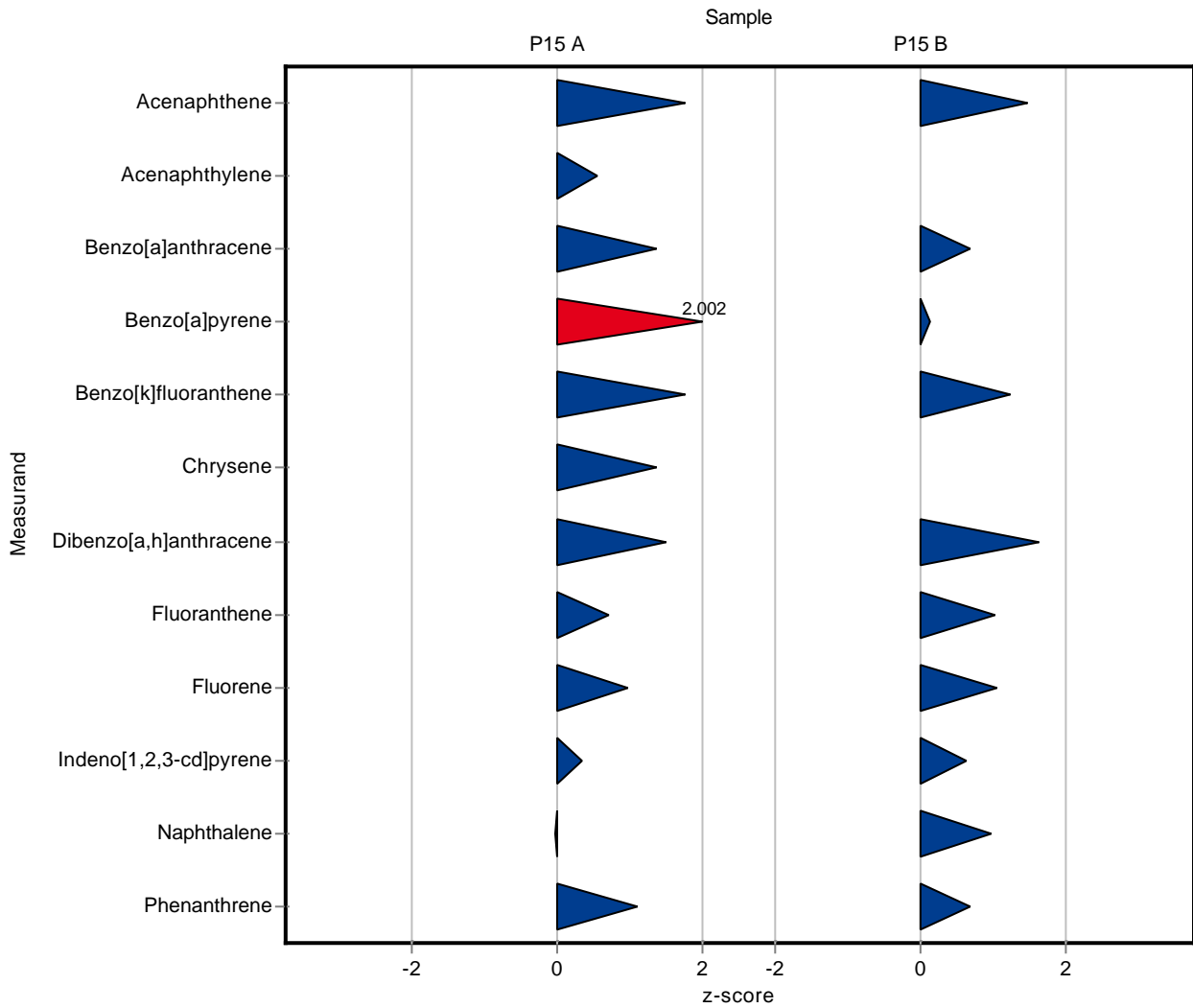
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	66.9	6.69	9.53	133.2	1.75
Acenaphthylene	ng/l	84.2	± 18.1	96	9.6	21.8	114.0	0.54
Anthracene	ng/l	-	± -	<3 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	157.5	15.75	38.3	149.7	1.36
Benzo[a]pyrene	ng/l	33.3	± 11.9	63	6.3	14.8	188.9	2.00
Benzo[b]fluoranthene	ng/l	-	± -	<3 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<3 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	189	18.9	36.5	151.0	1.75
Chrysene	ng/l	109	± 16	135	13.5	19.3	124.0	1.36
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	157.5	15.75	26	132.2	1.48
Fluoranthene	ng/l	55.4	± 6.72	61.5	6.15	8.68	111.1	0.71
Fluorene	ng/l	174	± 26.3	207	20.7	33.9	118.7	0.96
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	62.1	6.21	14.2	108.2	0.33
Naphthalene	ng/l	63.5	± 12.7	63	6.3	15.9	99.2	-0.03
Phenanthrene	ng/l	95.7	± 11.1	109.8	10.98	12.8	114.8	1.10
Pyrene	ng/l	-	± -	<3 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	166.8	16.68	22.8	124.7	1.45
Acenaphthylene	ng/l	-	± -	<3 (LOQ)	-	-	-	-
Anthracene	ng/l	-	± -	<3 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	37.5	3.75	9.3	120.1	0.67
Benzo[a]pyrene	ng/l	6.77	± 3.27	7.2	0.72	3.45	106.4	0.13
Benzo[b]fluoranthene	ng/l	-	± -	<3 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<3 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	11.1	1.11	2.76	144.4	1.24
Chrysene	ng/l	-	± -	4.5	0.45	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	30	3	5.62	143.1	1.61
Fluoranthene	ng/l	6.21	± 1.45	7.5	0.75	1.28	120.8	1.01
Fluorene	ng/l	61.7	± 8.74	73.5	7.35	11.3	119.1	1.04
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	16.5	1.65	4.46	119.7	0.61
Naphthalene	ng/l	92	± 22.4	117.6	11.76	26.9	127.8	0.95
Phenanthrene	ng/l	17.5	± 5.04	21	2.1	5.31	120.2	0.66
Pyrene	ng/l	-	± -	<3 (LOQ)	-	-	-	-



The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	-	-	9.53	-	-
Acenaphthylene	ng/l	84.2	± 18.1	-	-	21.8	-	-
Anthracene	ng/l	-	± -	-	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	-	-	38.3	-	-
Benzo[a]pyrene	ng/l	33.3	± 11.9	-	-	14.8	-	-
Benzo[b]fluoranthene	ng/l	-	± -	-	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	-	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	-	-	36.5	-	-
Chrysene	ng/l	109	± 16	-	-	19.3	-	-
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	-	-	26	-	-
Fluoranthene	ng/l	55.4	± 6.72	-	-	8.68	-	-
Fluorene	ng/l	174	± 26.3	-	-	33.9	-	-
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	-	-	14.2	-	-
Naphthalene	ng/l	63.5	± 12.7	-	-	15.9	-	-
Phenanthrene	ng/l	95.7	± 11.1	-	-	12.8	-	-
Pyrene	ng/l	-	± -	-	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	-	-	22.8	-	-
Acenaphthylene	ng/l	-	± -	-	-	-	-	-
Anthracene	ng/l	-	± -	-	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	-	-	9.3	-	-
Benzo[a]pyrene	ng/l	6.77	± 3.27	-	-	3.45	-	-
Benzo[b]fluoranthene	ng/l	-	± -	-	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	-	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	-	-	2.76	-	-
Chrysene	ng/l	-	± -	-	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	-	-	5.62	-	-
Fluoranthene	ng/l	6.21	± 1.45	-	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	-	-	11.3	-	-
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	-	-	4.46	-	-
Naphthalene	ng/l	92	± 22.4	-	-	26.9	-	-
Phenanthrene	ng/l	17.5	± 5.04	-	-	5.31	-	-
Pyrene	ng/l	-	± -	-	-	-	-	-

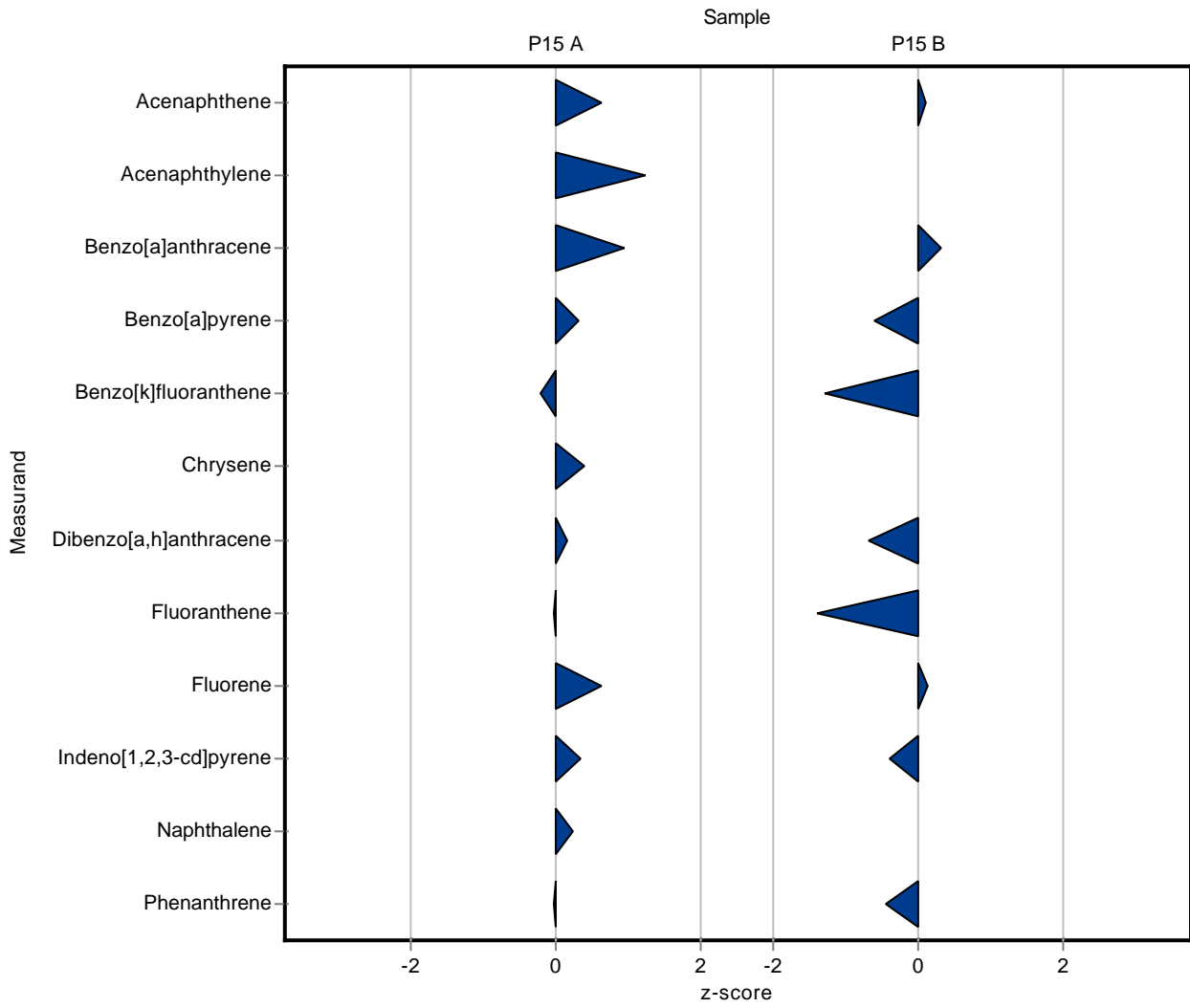
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	56	2.8	9.53	111.5	0.61
Acenaphthylene	ng/l	84.2	± 18.1	111	11.1	21.8	131.9	1.23
Anthracene	ng/l	-	± -	2.3	0.12	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	141	14.1	38.3	134.0	0.93
Benzo[a]pyrene	ng/l	33.3	± 11.9	38	7.6	14.8	114.0	0.31
Benzo[b]fluoranthene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	117	23.4	36.5	93.5	-0.22
Chrysene	ng/l	109	± 16	116	11.6	19.3	106.6	0.37
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	123	24.6	26	103.3	0.15
Fluoranthene	ng/l	55.4	± 6.72	55	2.75	8.68	99.3	-0.04
Fluorene	ng/l	174	± 26.3	195	19.5	33.9	111.8	0.61
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	62	12.4	14.2	108.0	0.32
Naphthalene	ng/l	63.5	± 12.7	67	6.7	15.9	105.5	0.22
Phenanthrene	ng/l	95.7	± 11.1	95	4.75	12.8	99.3	-0.05
Pyrene	ng/l	-	± -	<0.5 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	136	6.8	22.8	101.7	0.10
Acenaphthylene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Anthracene	ng/l	-	± -	<0.5 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	34	3.4	9.3	108.9	0.30
Benzo[a]pyrene	ng/l	6.77	± 3.27	4.6	0.92	3.45	68.0	-0.63
Benzo[b]fluoranthene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	4.1	0.82	2.76	53.3	-1.30
Chrysene	ng/l	-	± -	3.2	0.32	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	17	3.4	5.62	81.1	-0.70
Fluoranthene	ng/l	6.21	± 1.45	4.4	0.22	1.28	70.9	-1.41
Fluorene	ng/l	61.7	± 8.74	63	6.3	11.3	102.1	0.11
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	12	2.4	4.46	87.1	-0.40
Naphthalene	ng/l	92	± 22.4	<1 (LOQ)	-	26.9	-	-
Phenanthrene	ng/l	17.5	± 5.04	15	0.75	5.31	85.9	-0.46
Pyrene	ng/l	-	± -	<0.5 (LOQ)	-	-	-	-



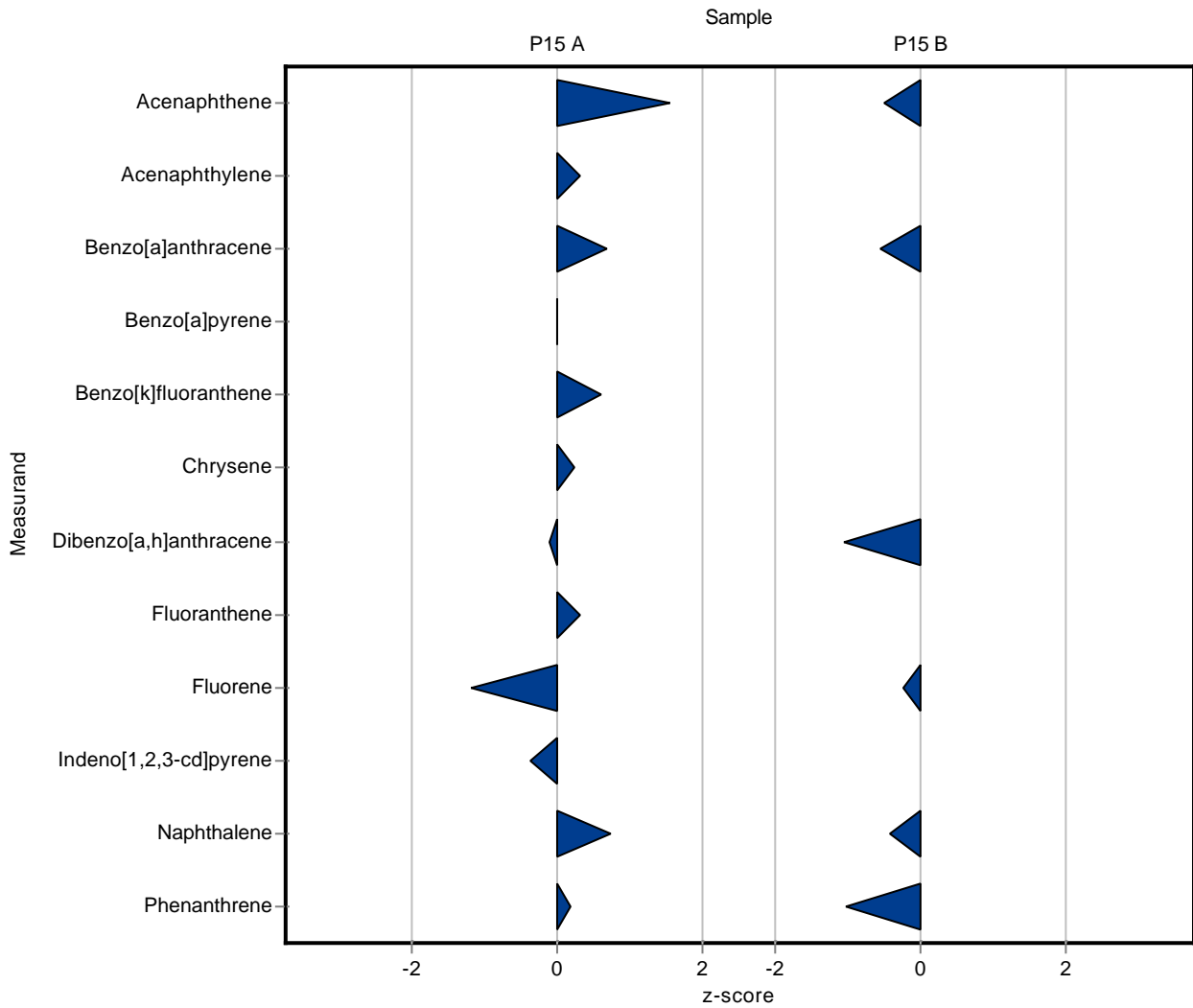
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	65	25	9.53	129.4	1.55
Acenaphthylene	ng/l	84.2	± 18.1	91	35	21.8	108.1	0.31
Anthracene	ng/l	-	± -	<2 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	131	51	38.3	124.5	0.67
Benzo[a]pyrene	ng/l	33.3	± 11.9	33	14	14.8	99.0	-0.02
Benzo[b]fluoranthene	ng/l	-	± -	<2 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<2 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	147	54	36.5	117.5	0.60
Chrysene	ng/l	109	± 16	113	44	19.3	103.8	0.22
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	116	45	26	97.4	-0.12
Fluoranthene	ng/l	55.4	± 6.72	58	14	8.68	104.8	0.30
Fluorene	ng/l	174	± 26.3	134	52	33.9	76.8	-1.19
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	52	25	14.2	90.6	-0.38
Naphthalene	ng/l	63.5	± 12.7	75	29	15.9	118.1	0.72
Phenanthrene	ng/l	95.7	± 11.1	98	38	12.8	102.4	0.18
Pyrene	ng/l	-	± -	<2 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	122	48	22.8	91.2	-0.52
Acenaphthylene	ng/l	-	± -	<2 (LOQ)	-	-	-	-
Anthracene	ng/l	-	± -	<2 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	26	10	9.3	83.3	-0.56
Benzo[a]pyrene	ng/l	6.77	± 3.27	<5 (LOQ)	-	3.45	-	-
Benzo[b]fluoranthene	ng/l	-	± -	<2 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<2 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	<5 (LOQ)	-	2.76	-	-
Chrysene	ng/l	-	± -	<2 (LOQ)	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	15	6	5.62	71.6	-1.06
Fluoranthene	ng/l	6.21	± 1.45	<2 (LOQ)	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	59	23	11.3	95.6	-0.24
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	<2 (LOQ)	-	4.46	-	-
Naphthalene	ng/l	92	± 22.4	80	31	26.9	86.9	-0.45
Phenanthrene	ng/l	17.5	± 5.04	12	5	5.31	68.7	-1.03
Pyrene	ng/l	-	± -	<2 (LOQ)	-	-	-	-



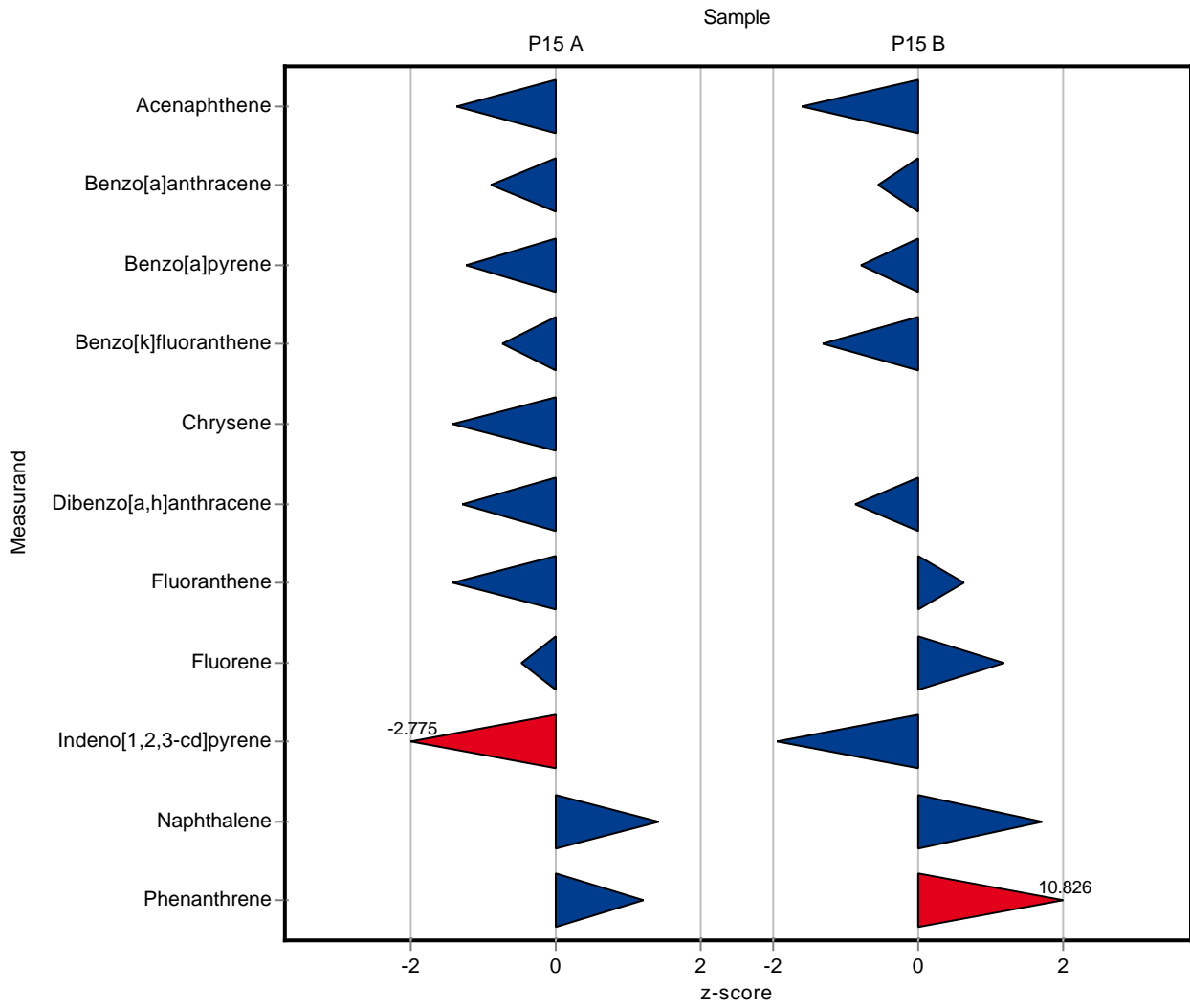
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	37	10	9.53	73.7	-1.39
Acenaphthylene	ng/l	84.2	± 18.1	-	-	21.8	-	-
Anthracene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	70	10	38.3	66.5	-0.92
Benzo[a]pyrene	ng/l	33.3	± 11.9	15	5	14.8	45.0	-1.24
Benzo[b]fluoranthene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	21	7	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	98	19	36.5	78.3	-0.74
Chrysene	ng/l	109	± 16	81	15	19.3	74.4	-1.45
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	85	15	26	71.4	-1.31
Fluoranthene	ng/l	55.4	± 6.72	43	6	8.68	77.7	-1.42
Fluorene	ng/l	174	± 26.3	158	23	33.9	90.6	-0.49
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	18	6	14.2	31.4	-2.78
Naphthalene	ng/l	63.5	± 12.7	86	21	15.9	135.4	1.42
Phenanthrene	ng/l	95.7	± 11.1	111	30	12.8	116.0	1.20
Pyrene	ng/l	-	± -	<1 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	97	19	22.8	72.5	-1.61
Acenaphthylene	ng/l	-	± -	-	-	-	-	-
Anthracene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	26	516	9.3	83.3	-0.56
Benzo[a]pyrene	ng/l	6.77	± 3.27	4	1	3.45	59.1	-0.80
Benzo[b]fluoranthene	ng/l	-	± -	<1 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	5	3	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	4	2	2.76	52.0	-1.34
Chrysene	ng/l	-	± -	2	1	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	16	4	5.62	76.3	-0.88
Fluoranthene	ng/l	6.21	± 1.45	7	3	1.28	112.8	0.62
Fluorene	ng/l	61.7	± 8.74	75	15	11.3	121.5	1.18
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	5	3	4.46	36.3	-1.97
Naphthalene	ng/l	92	± 22.4	138	35	26.9	150.0	1.71
Phenanthrene	ng/l	17.5	± 5.04	75	16	5.31	429.3	10.83
Pyrene	ng/l	-	± -	<1 (LOQ)	-	-	-	-



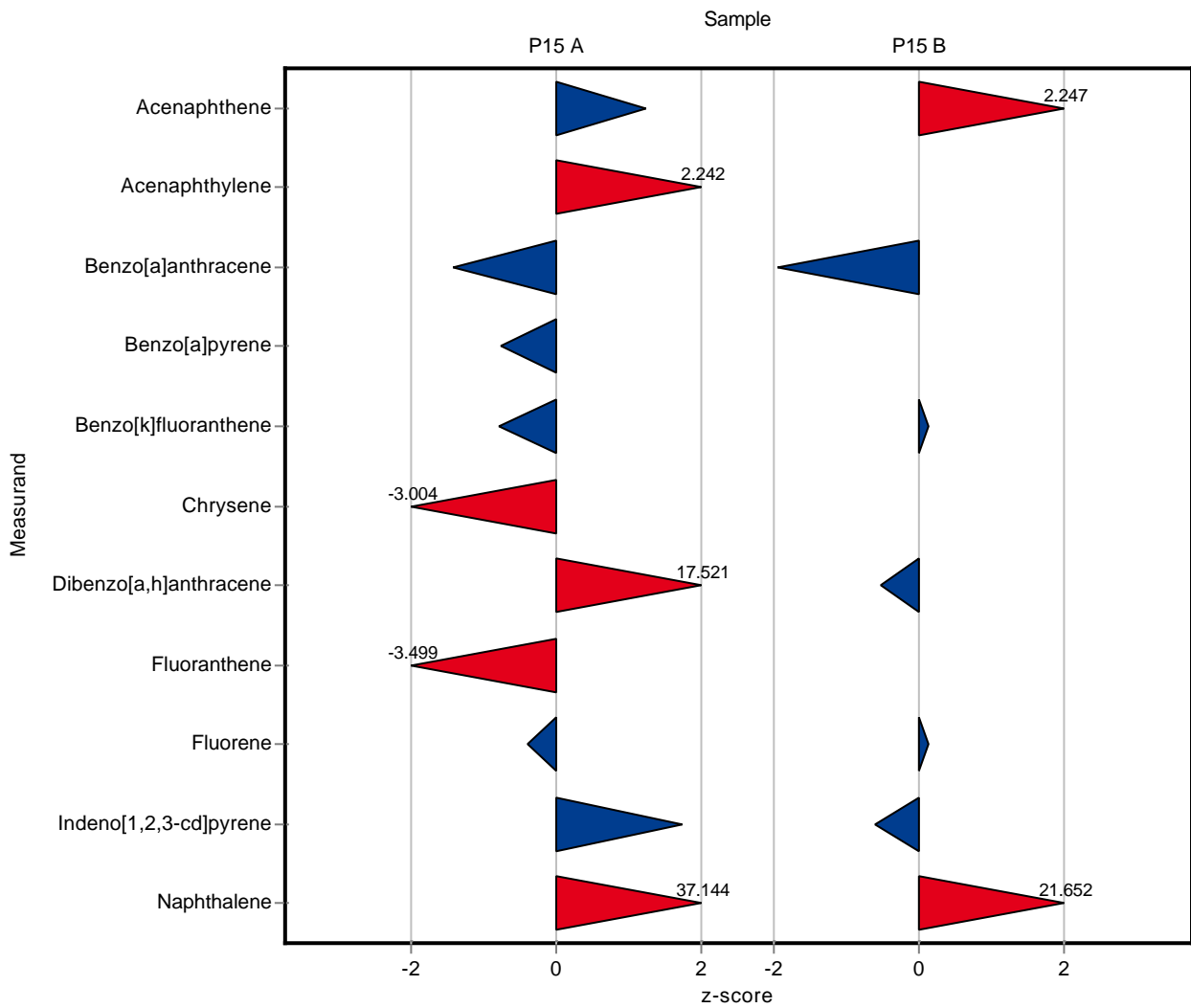
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	62	13	9.53	123.5	1.24
Acenaphthylene	ng/l	84.2	± 18.1	133	8	21.8	158.0	2.24
Anthracene	ng/l	-	± -	<2 (LOD)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	50	9	38.3	47.5	-1.44
Benzo[a]pyrene	ng/l	33.3	± 11.9	22	1	14.8	66.0	-0.77
Benzo[b]fluoranthene	ng/l	-	± -	<8 (LOD)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	41	14	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	96	10	36.5	76.7	-0.80
Chrysene	ng/l	109	± 16	51	5	19.3	46.9	-3.00
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	574	8	26	481.9	17.52
Fluoranthene	ng/l	55.4	± 6.72	25	-	8.68	45.2	-3.50
Fluorene	ng/l	174	± 26.3	161	2	33.9	92.3	-0.40
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	82	1	14.2	142.9	1.73
Naphthalene	ng/l	63.5	± 12.7	653	26	15.9	1027.8	37.14
Phenanthrene	ng/l	95.7	± 11.1	<16 (LOD)	-	12.8	-	-
Pyrene	ng/l	-	± -	<6 (LOD)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	185	13	22.8	138.3	2.25
Acenaphthylene	ng/l	-	± -	<60 (LOD)	-	-	-	-
Anthracene	ng/l	-	± -	<2 (LOD)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	13	9	9.3	41.6	-1.96
Benzo[a]pyrene	ng/l	6.77	± 3.27	<13 (LOD)	-	3.45	-	-
Benzo[b]fluoranthene	ng/l	-	± -	<8 (LOD)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<12 (LOD)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	8	10	2.76	104.0	0.11
Chrysene	ng/l	-	± -	<4 (LOD)	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	18	8	5.62	85.9	-0.53
Fluoranthene	ng/l	6.21	± 1.45	<4 (LOD)	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	63	2	11.3	102.1	0.11
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	11	3	4.46	79.8	-0.62
Naphthalene	ng/l	92	± 22.4	675	26	26.9	733.5	21.65
Phenanthrene	ng/l	17.5	± 5.04	<16 (LOD)	-	5.31	-	-
Pyrene	ng/l	-	± -	<6 (LOD)	-	-	-	-



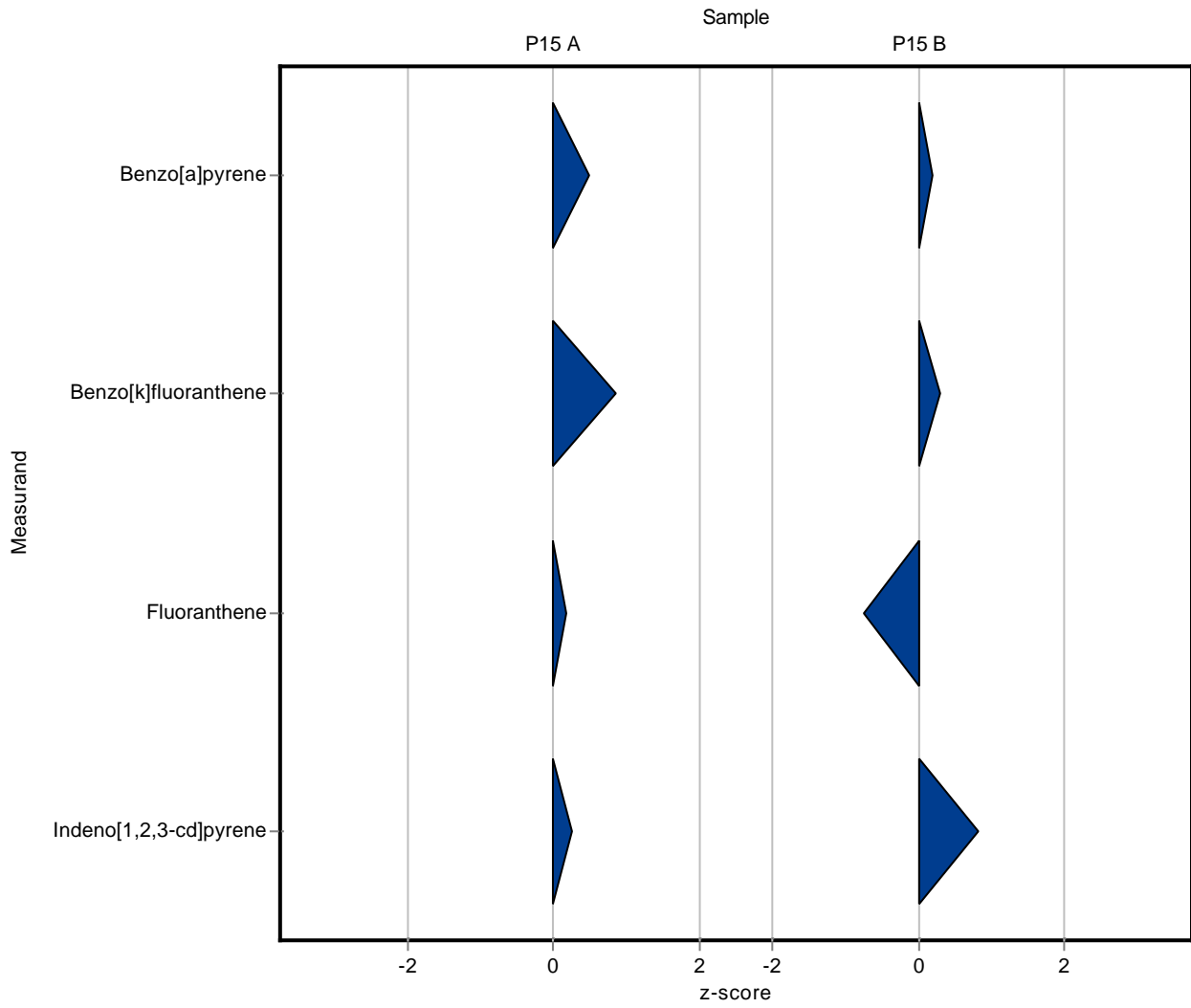
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	-	-	9.53	-	-
Acenaphthylene	ng/l	84.2	± 18.1	-	-	21.8	-	-
Anthracene	ng/l	-	± -	-	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	-	-	38.3	-	-
Benzo[a]pyrene	ng/l	33.3	± 11.9	40.6	10.1	14.8	121.8	0.49
Benzo[b]fluoranthene	ng/l	-	± -	<2 (LOD)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<2 (LOD)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	155.8	38.9	36.5	124.5	0.84
Chrysene	ng/l	109	± 16	-	-	19.3	-	-
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	-	-	26	-	-
Fluoranthene	ng/l	55.4	± 6.72	56.9	14.2	8.68	102.8	0.18
Fluorene	ng/l	174	± 26.3	-	-	33.9	-	-
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	61.1	15.3	14.2	106.5	0.26
Naphthalene	ng/l	63.5	± 12.7	-	-	15.9	-	-
Phenanthrene	ng/l	95.7	± 11.1	-	-	12.8	-	-
Pyrene	ng/l	-	± -	-	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	-	-	22.8	-	-
Acenaphthylene	ng/l	-	± -	-	-	-	-	-
Anthracene	ng/l	-	± -	-	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	-	-	9.3	-	-
Benzo[a]pyrene	ng/l	6.77	± 3.27	7.45	1.9	3.45	110.1	0.20
Benzo[b]fluoranthene	ng/l	-	± -	<2 (LOD)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<2 (LOD)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	8.5	2.1	2.76	110.5	0.29
Chrysene	ng/l	-	± -	-	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	-	-	5.62	-	-
Fluoranthene	ng/l	6.21	± 1.45	5.25	1.3	1.28	84.6	-0.75
Fluorene	ng/l	61.7	± 8.74	-	-	11.3	-	-
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	17.4	4.3	4.46	126.3	0.81
Naphthalene	ng/l	92	± 22.4	-	-	26.9	-	-
Phenanthrene	ng/l	17.5	± 5.04	-	-	5.31	-	-
Pyrene	ng/l	-	± -	-	-	-	-	-



The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	-	-	9.53	-	-
Acenaphthylene	ng/l	84.2	± 18.1	-	-	21.8	-	-
Anthracene	ng/l	-	± -	-	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	-	-	38.3	-	-
Benzo[a]pyrene	ng/l	33.3	± 11.9	-	-	14.8	-	-
Benzo[b]fluoranthene	ng/l	-	± -	-	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	-	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	-	-	36.5	-	-
Chrysene	ng/l	109	± 16	-	-	19.3	-	-
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	-	-	26	-	-
Fluoranthene	ng/l	55.4	± 6.72	-	-	8.68	-	-
Fluorene	ng/l	174	± 26.3	-	-	33.9	-	-
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	-	-	14.2	-	-
Naphthalene	ng/l	63.5	± 12.7	-	-	15.9	-	-
Phenanthrene	ng/l	95.7	± 11.1	-	-	12.8	-	-
Pyrene	ng/l	-	± -	-	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	-	-	22.8	-	-
Acenaphthylene	ng/l	-	± -	-	-	-	-	-
Anthracene	ng/l	-	± -	-	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	-	-	9.3	-	-
Benzo[a]pyrene	ng/l	6.77	± 3.27	-	-	3.45	-	-
Benzo[b]fluoranthene	ng/l	-	± -	-	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	-	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	-	-	2.76	-	-
Chrysene	ng/l	-	± -	-	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	-	-	5.62	-	-
Fluoranthene	ng/l	6.21	± 1.45	-	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	-	-	11.3	-	-
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	-	-	4.46	-	-
Naphthalene	ng/l	92	± 22.4	-	-	26.9	-	-
Phenanthrene	ng/l	17.5	± 5.04	-	-	5.31	-	-
Pyrene	ng/l	-	± -	-	-	-	-	-

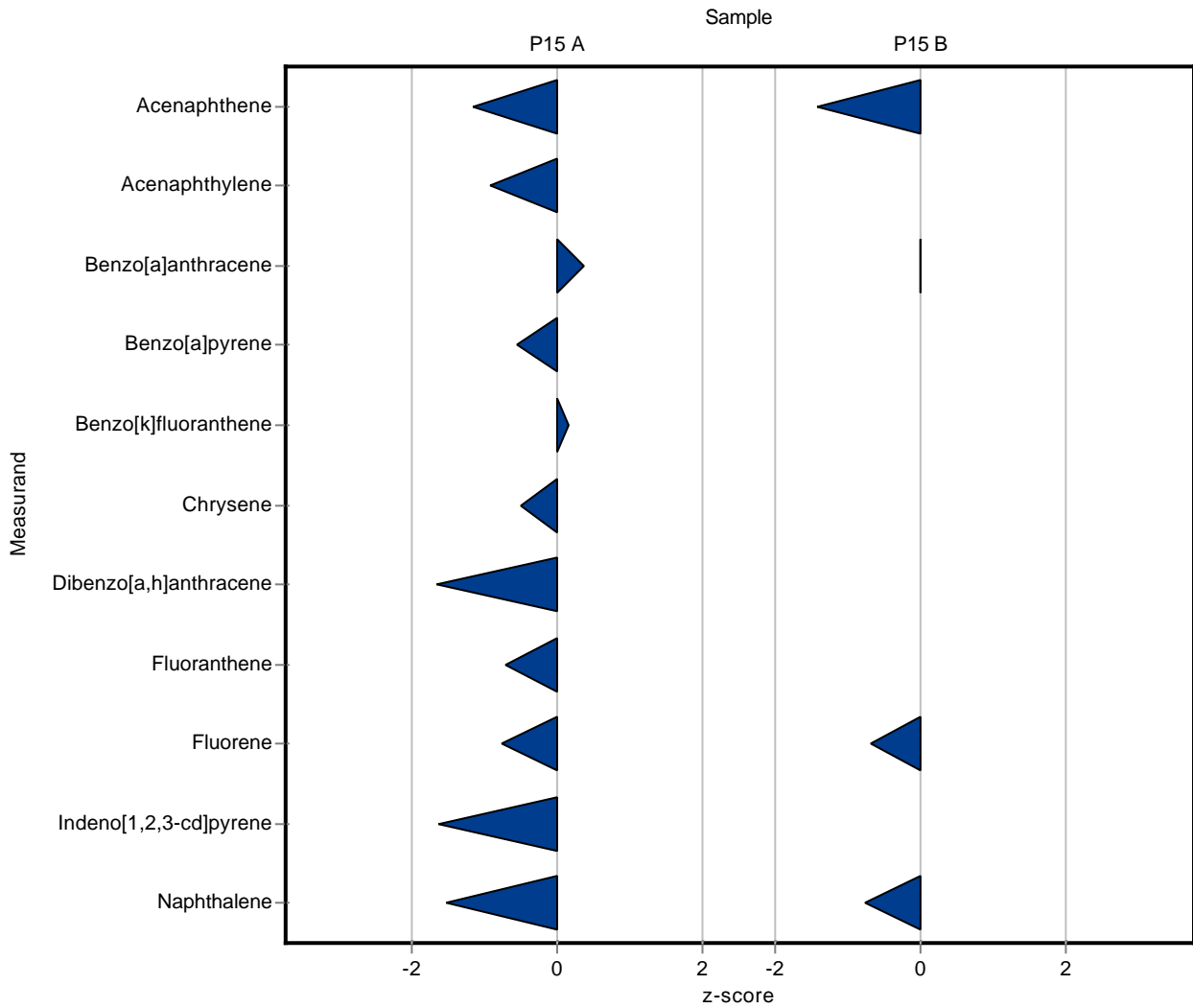
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	39	3.9	9.53	77.7	-1.18
Acenaphthylene	ng/l	84.2	± 18.1	64	6.4	21.8	76.0	-0.93
Anthracene	ng/l	-	± -	<20 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	119	11.9	38.3	113.1	0.36
Benzo[a]pyrene	ng/l	33.3	± 11.9	25	2.5	14.8	75.0	-0.56
Benzo[b]fluoranthene	ng/l	-	± -	<20 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<20 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	130	13	36.5	103.9	0.13
Chrysene	ng/l	109	± 16	99	9.9	19.3	91.0	-0.51
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	76	7.6	26	63.8	-1.66
Fluoranthene	ng/l	55.4	± 6.72	49	4.9	8.68	88.5	-0.73
Fluorene	ng/l	174	± 26.3	148	14.8	33.9	84.8	-0.78
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	34	3.4	14.2	59.2	-1.65
Naphthalene	ng/l	63.5	± 12.7	39	3.9	15.9	61.4	-1.55
Phenanthrene	ng/l	95.7	± 11.1	<20 (LOQ)	-	12.8	-	-
Pyrene	ng/l	-	± -	<20 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	101	10.1	22.8	75.5	-1.44
Acenaphthylene	ng/l	-	± -	<20 (LOQ)	-	-	-	-
Anthracene	ng/l	-	± -	<20 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	31	3.1	9.3	99.3	-0.02
Benzo[a]pyrene	ng/l	6.77	± 3.27	<20 (LOQ)	-	3.45	-	-
Benzo[b]fluoranthene	ng/l	-	± -	<20 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<20 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	<20 (LOQ)	-	2.76	-	-
Chrysene	ng/l	-	± -	<20 (LOQ)	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	<20 (LOQ)	-	5.62	-	-
Fluoranthene	ng/l	6.21	± 1.45	<20 (LOQ)	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	54	5.4	11.3	87.5	-0.69
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	<20 (LOQ)	-	4.46	-	-
Naphthalene	ng/l	92	± 22.4	71	7.1	26.9	77.2	-0.78
Phenanthrene	ng/l	17.5	± 5.04	<20 (LOQ)	-	5.31	-	-
Pyrene	ng/l	-	± -	<20 (LOQ)	-	-	-	-



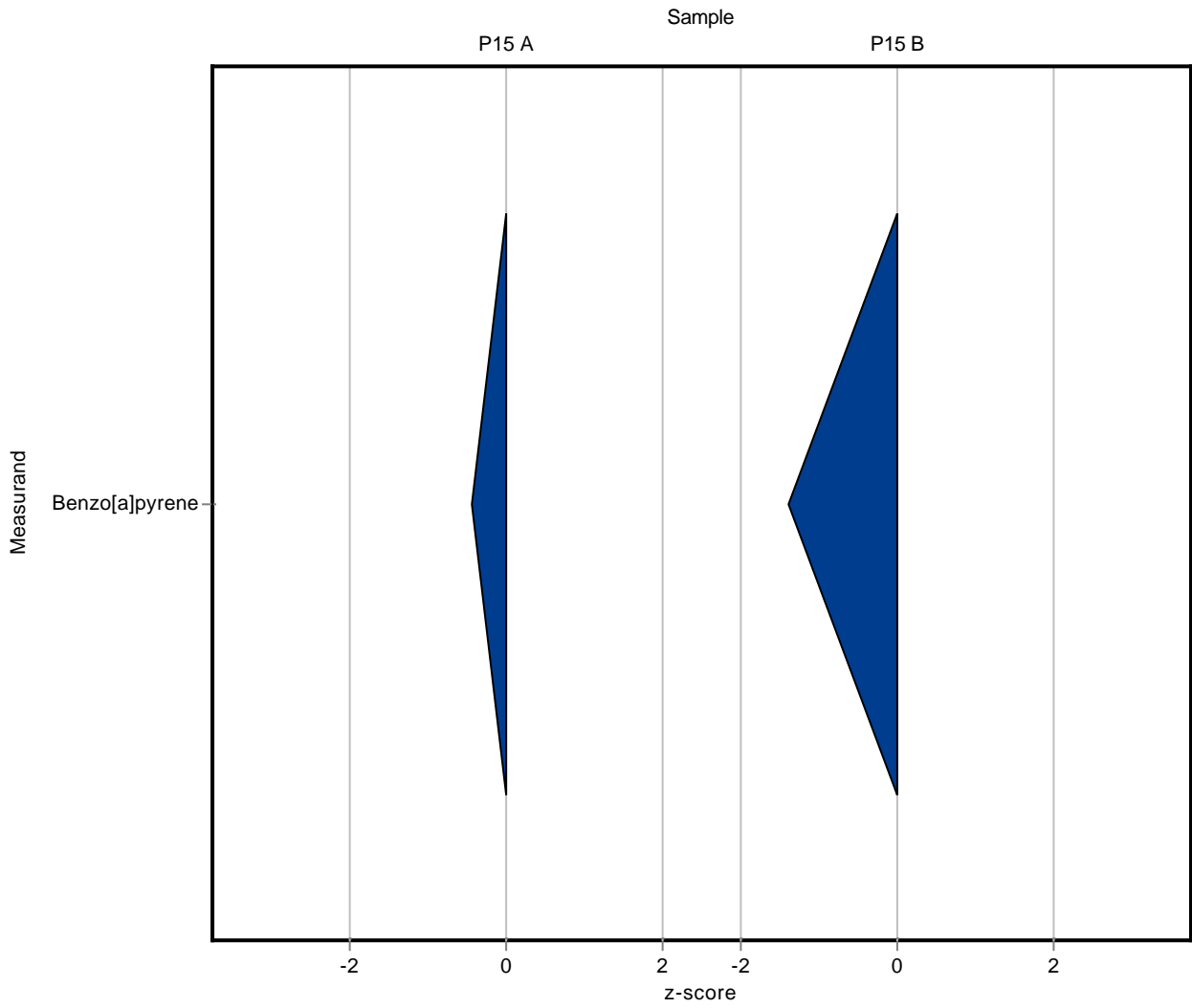
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	-	-	9.53	-	-
Acenaphthylene	ng/l	84.2	± 18.1	-	-	21.8	-	-
Anthracene	ng/l	-	± -	-	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	-	-	38.3	-	-
Benzo[a]pyrene	ng/l	33.3	± 11.9	26.9	-	14.8	80.7	-0.43
Benzo[b]fluoranthene	ng/l	-	± -	-	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	-	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	-	-	36.5	-	-
Chrysene	ng/l	109	± 16	-	-	19.3	-	-
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	-	-	26	-	-
Fluoranthene	ng/l	55.4	± 6.72	-	-	8.68	-	-
Fluorene	ng/l	174	± 26.3	-	-	33.9	-	-
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	-	-	14.2	-	-
Naphthalene	ng/l	63.5	± 12.7	-	-	15.9	-	-
Phenanthrene	ng/l	95.7	± 11.1	-	-	12.8	-	-
Pyrene	ng/l	-	± -	-	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	-	-	22.8	-	-
Acenaphthylene	ng/l	-	± -	-	-	-	-	-
Anthracene	ng/l	-	± -	-	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	-	-	9.3	-	-
Benzo[a]pyrene	ng/l	6.77	± 3.27	2	-	3.45	29.6	-1.38
Benzo[b]fluoranthene	ng/l	-	± -	-	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	-	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	-	-	2.76	-	-
Chrysene	ng/l	-	± -	-	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	-	-	5.62	-	-
Fluoranthene	ng/l	6.21	± 1.45	-	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	-	-	11.3	-	-
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	-	-	4.46	-	-
Naphthalene	ng/l	92	± 22.4	-	-	26.9	-	-
Phenanthrene	ng/l	17.5	± 5.04	-	-	5.31	-	-
Pyrene	ng/l	-	± -	-	-	-	-	-



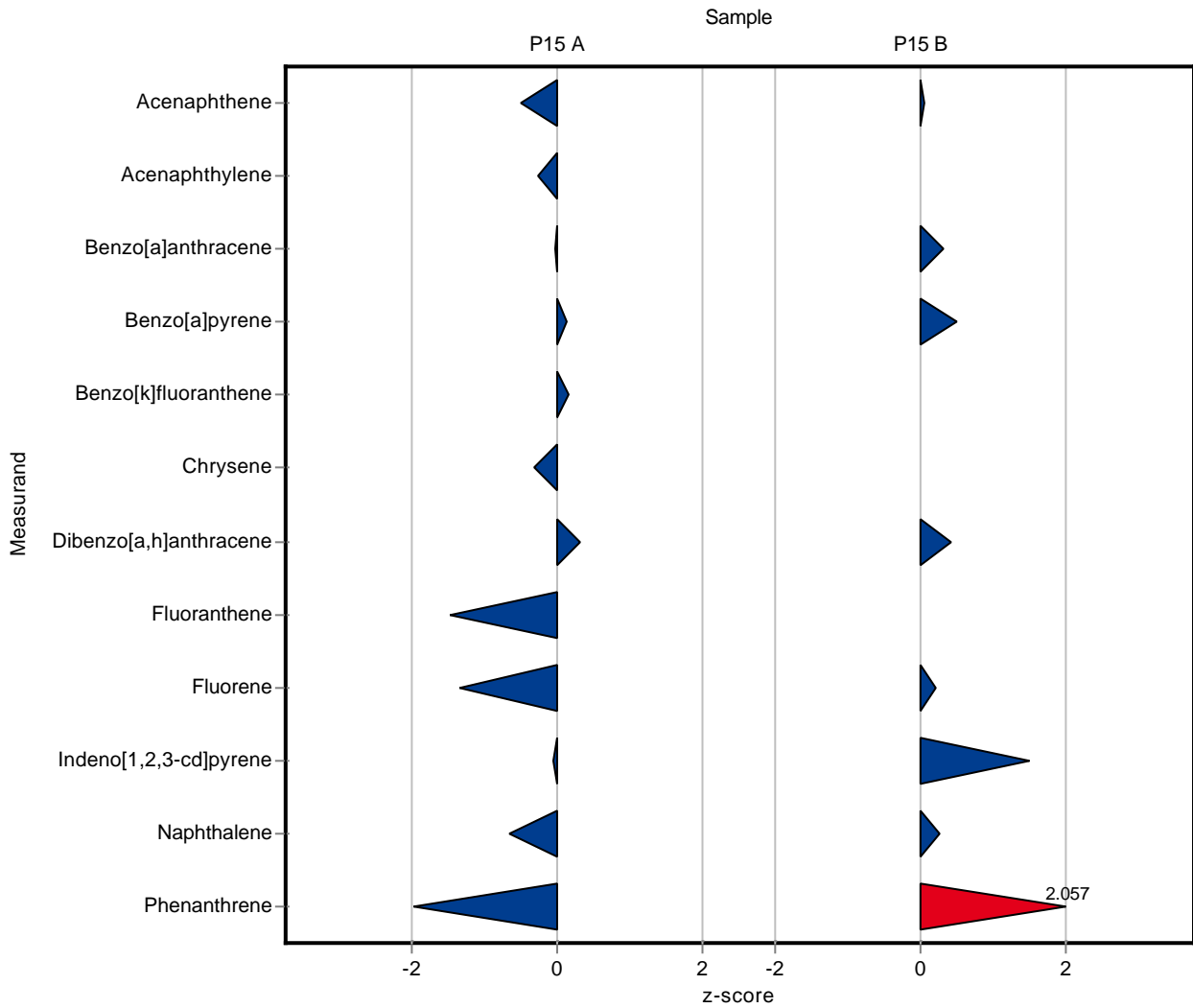
The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	45.3	15	9.53	90.2	-0.52
Acenaphthylene	ng/l	84.2	± 18.1	77.9	14.8	21.8	92.5	-0.29
Anthracene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	104.1	21.9	38.3	98.9	-0.03
Benzo[a]pyrene	ng/l	33.3	± 11.9	35	8.4	14.8	105.0	0.11
Benzo[b]fluoranthene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	130.3	28.7	36.5	104.1	0.14
Chrysene	ng/l	109	± 16	102.4	22.5	19.3	94.1	-0.33
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	126.9	33	26	106.5	0.30
Fluoranthene	ng/l	55.4	± 6.72	42.5	8.9	8.68	76.8	-1.48
Fluorene	ng/l	174	± 26.3	128.7	28.3	33.9	73.8	-1.35
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	56.4	9.6	14.2	98.3	-0.07
Naphthalene	ng/l	63.5	± 12.7	52.8	12.7	15.9	83.1	-0.68
Phenanthrene	ng/l	95.7	± 11.1	70.1	17.5	12.8	73.3	-1.99
Pyrene	ng/l	-	± -	<10 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	134.4	44.3	22.8	100.5	0.03
Acenaphthylene	ng/l	-	± -	<25 (LOQ)	-	-	-	-
Anthracene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	34	7.1	9.3	108.9	0.30
Benzo[a]pyrene	ng/l	6.77	± 3.27	8.4	2	3.45	124.2	0.47
Benzo[b]fluoranthene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	<10 (LOQ)	-	2.76	-	-
Chrysene	ng/l	-	± -	<10 (LOQ)	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	23.3	6.1	5.62	111.2	0.42
Fluoranthene	ng/l	6.21	± 1.45	<10 (LOQ)	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	63.9	14.1	11.3	103.5	0.19
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	20.4	3.5	4.46	148.0	1.48
Naphthalene	ng/l	92	± 22.4	99.1	23.8	26.9	107.7	0.26
Phenanthrene	ng/l	17.5	± 5.04	28.4	7.1	5.31	162.6	2.06
Pyrene	ng/l	-	± -	<10 (LOQ)	-	-	-	-



The following results were achieved:

Sample: P15A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	50.2	± 7.38	<200 (LOQ)	-	9.53	-	-
Acenaphthylene	ng/l	84.2	± 18.1	<200 (LOQ)	-	21.8	-	-
Anthracene	ng/l	-	± -	<200 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	105	± 30.7	<200 (LOQ)	-	38.3	-	-
Benzo[a]pyrene	ng/l	33.3	± 11.9	<200 (LOQ)	-	14.8	-	-
Benzo[b]fluoranthene	ng/l	-	± -	<200 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<200 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	125	± 27.3	<200 (LOQ)	-	36.5	-	-
Chrysene	ng/l	109	± 16	<200 (LOQ)	-	19.3	-	-
Dibenzo[a,h]anthracene	ng/l	119	± 22.5	<200 (LOQ)	-	26	-	-
Fluoranthene	ng/l	55.4	± 6.72	<200 (LOQ)	-	8.68	-	-
Fluorene	ng/l	174	± 26.3	<200 (LOQ)	-	33.9	-	-
Indeno[1,2,3-cd]pyrene	ng/l	57.4	± 11.8	<200 (LOQ)	-	14.2	-	-
Naphthalene	ng/l	63.5	± 12.7	<200 (LOQ)	-	15.9	-	-
Phenanthrene	ng/l	95.7	± 11.1	<200 (LOQ)	-	12.8	-	-
Pyrene	ng/l	-	± -	<200 (LOQ)	-	-	-	-

Sample: P15B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Acenaphthene	ng/l	134	± 18.3	<200 (LOQ)	-	22.8	-	-
Acenaphthylene	ng/l	-	± -	<200 (LOQ)	-	-	-	-
Anthracene	ng/l	-	± -	<200 (LOQ)	-	-	-	-
Benzo[a]anthracene	ng/l	31.2	± 7.46	<200 (LOQ)	-	9.3	-	-
Benzo[a]pyrene	ng/l	6.77	± 3.27	<200 (LOQ)	-	3.45	-	-
Benzo[b]fluoranthene	ng/l	-	± -	<200 (LOQ)	-	-	-	-
Benzo[g,h,i]perylene	ng/l	-	± -	<200 (LOQ)	-	-	-	-
Benzo[k]fluoranthene	ng/l	7.69	± 2.76	<200 (LOQ)	-	2.76	-	-
Chrysene	ng/l	-	± -	<200 (LOQ)	-	-	-	-
Dibenzo[a,h]anthracene	ng/l	21	± 4.87	<200 (LOQ)	-	5.62	-	-
Fluoranthene	ng/l	6.21	± 1.45	<200 (LOQ)	-	1.28	-	-
Fluorene	ng/l	61.7	± 8.74	<200 (LOQ)	-	11.3	-	-
Indeno[1,2,3-cd]pyrene	ng/l	13.8	± 4.23	<200 (LOQ)	-	4.46	-	-
Naphthalene	ng/l	92	± 22.4	<200 (LOQ)	-	26.9	-	-
Phenanthrene	ng/l	17.5	± 5.04	<200 (LOQ)	-	5.31	-	-
Pyrene	ng/l	-	± -	<200 (LOQ)	-	-	-	-