

	Obtained Result	Units	Comparison Level	Relative Error (%)	z-score	Performance
Alanine aminotransferase	38.7	U/L	Method	-5,4	-0,60	● Satisfactory
Albumin	37	g/L	All methods	0,9	0,17	● Satisfactory
Alfa-amylase	107	U/L	Method	0,2	0,03	● Satisfactory
Aspartate aminotransferase	38.3	U/L	Method	-7,3	-0,81	● Satisfactory
Total bilirubin	14.29	umol/L	Method	-10,2	-0,95	● Satisfactory
Calcium	2.46	mmol/L	All methods	0,0	0,00	● Satisfactory
Cholesterol	3.3	mmol/L	All methods	-3,6	-0,59	● Satisfactory
HDL Cholesterol	0.96	mmol/L	Method	-12,6	-1,09	● Satisfactory
Creatine kinase	169.6	U/L	Method	1,8	0,16	● Satisfactory
Creatinine	112	umol/L	Method	6,9	0,82	● Satisfactory
Alkaline phosphatase	102	U/L	Method	0,2	0,02	● Satisfactory
Inorganic Phosphate	1.24	mmol/L	All methods	1,1	0,17	● Satisfactory
Direct bilirubin	6.62	umol/L	Method	26,4	1,62	● Satisfactory
Glucose	4.75	mmol/L	All methods	-1,5	-0,32	● Satisfactory
Gamma-Glutamyltransferase	38.1	U/L	Method	1,9	0,31	● Satisfactory
LDL Cholesterol	1.93	mmol/L	Method	2,9	0,25	● Satisfactory
Iron	18.4	umol/L	Method	-5,5	-0,90	● Satisfactory
Lactate dehydrogenase	489	U/L	Method	-1,8	-0,34	● Satisfactory
Magnesium	0.65	mmol/L	All methods	1,9	0,19	● Satisfactory
Protein	55	g/L	All methods	-2,7	-0,56	● Satisfactory
Triglycerides	0.61	mmol/L	All methods	-4,1	-0,47	● Satisfactory
Uric acid	312.9	umol/L	All methods	-1,6	-0,26	● Satisfactory
Urea	9.07	mmol/L	All methods	-4,3	-0,58	● Satisfactory
Lipase	49	U/L	Method	14,7	0,77	● Satisfactory
Alfa-amylase pancreatic	68	U/L	Method	-1,7	-0,28	● Satisfactory
Zinc	12	umol/L	All methods	-6,7	-0,26	● Satisfactory

BioSystems, S.A (PREVECAL) is accredited with ISO / IEC 17043: 2010  
 (>>>>) Mensurands not included in the accreditation scope

For more information, consult the User's Guide.

Performance evaluation criteria:

Relative error > Specification: Unsatisfactory

Relative error < Specification:

z-score ≤ 2: Satisfactory

z-score >2 and ≤3: Warning

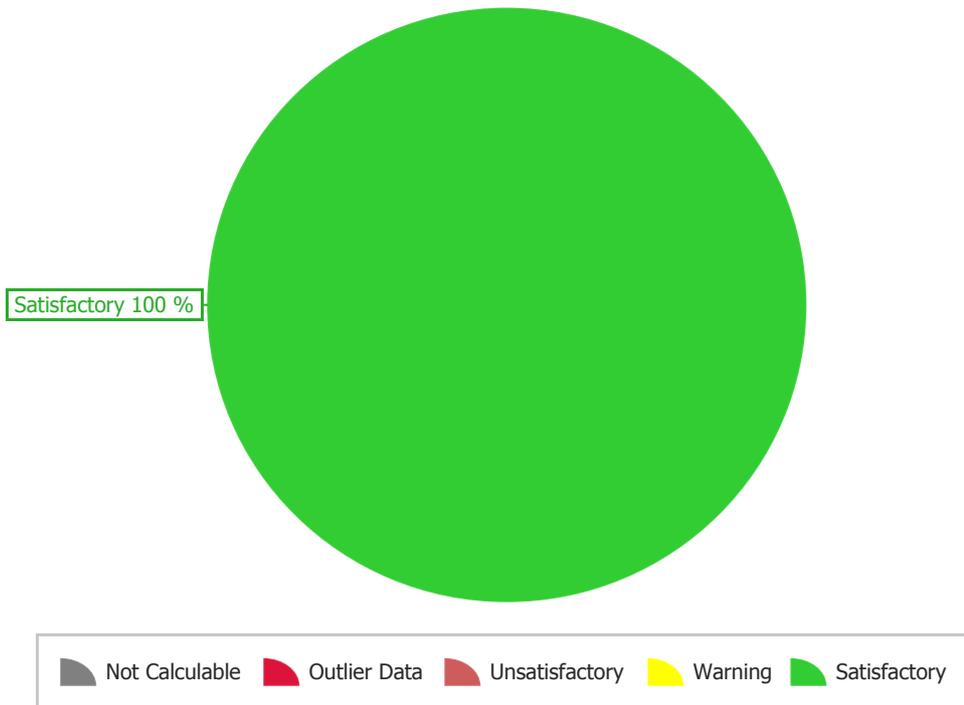
z-score >3: Unsatisfactory

NC: Insufficient results.



Report validated by: David Rosselló  
 Prevecal Technical Director  
[prevecal@biosystems.es](mailto:prevecal@biosystems.es)

## Performance Evaluation for the current month



## Outlier or unsatisfactory results accumulated during the year

	Accumulated
Alanine aminotransferase	0
Albumin	0
Alfa-amylase pancreatic	0
Lipase	0
Urea	0
Uric acid	0
Triglycerides	0
Protein	0
Magnesium	0
Lactate dehydrogenase	0
Iron	0
LDL Cholesterol	0
Gamma-Glutamyltransferase	0
Glucose	0
Direct bilirubin	0
Inorganic Phosphate	0
Alkaline phosphatase	0
Creatinine	0
Creatine kinase	0
HDL Cholesterol	0
Cholesterol	0
Calcium	0
Total bilirubin	0
Aspartate aminotransferase	0
Alfa-amylase	0
Zinc	0

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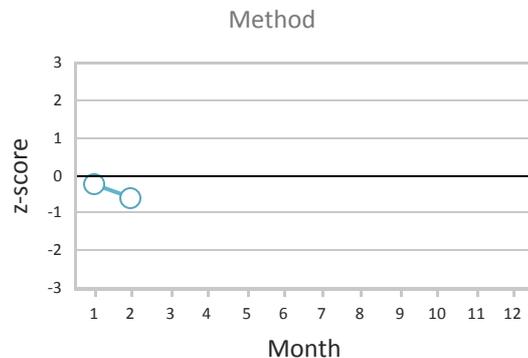
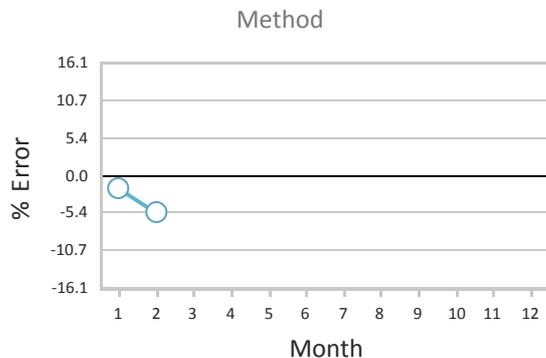
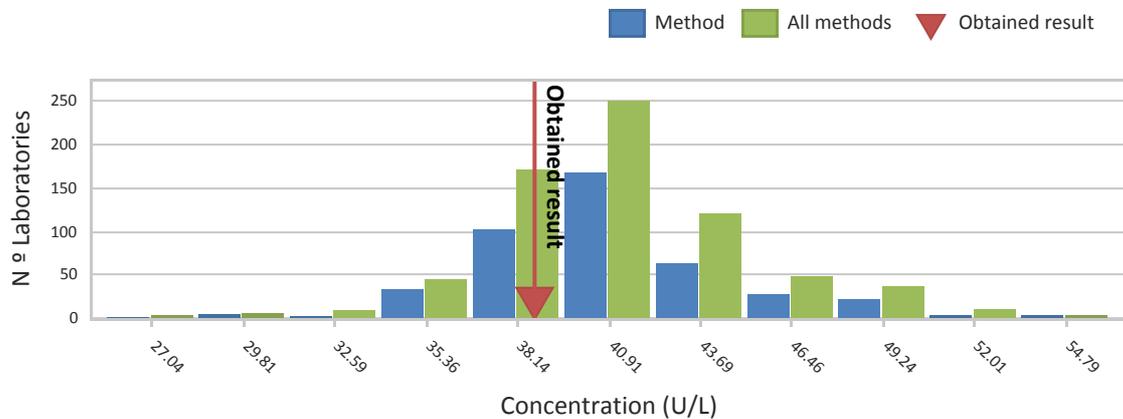
## Alanine aminotransferase

Method: (0120) Measurement of NADH 340nm Without Pyridoxal Phosphate  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	428	703
Robust mean (U/L)	40.91	41.06
Laboratories standard deviation (U/L)	3.27	3.46
Uncertainty (U/L)	0.198	0.163
CV (%)	8.0	8.4

Laboratory data:	Method	All methods
Obtained result	38.70 U/L	
Relative error (%)	-5.4	-5.8
z-score	-0.60	-0.59
Performance standard dev. (Spt) (U/L) (used to calculate the z-score)	3.70	4.00

Analytical performance specification: 16.1 % (Biological variation, Desirable level)  
 Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

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## Albumin

Method: (0210) Bromocresol green  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

### Statistical Global Data:

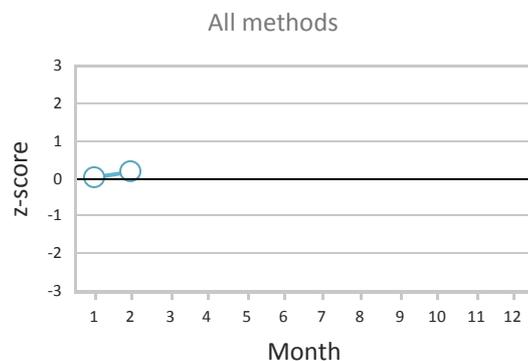
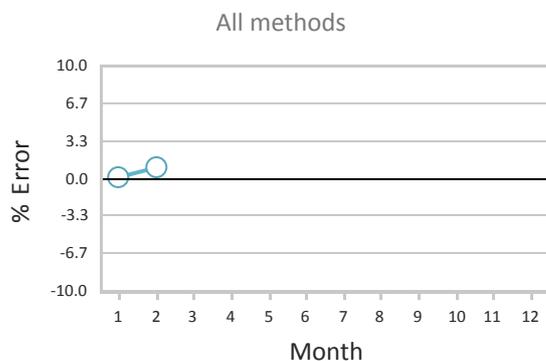
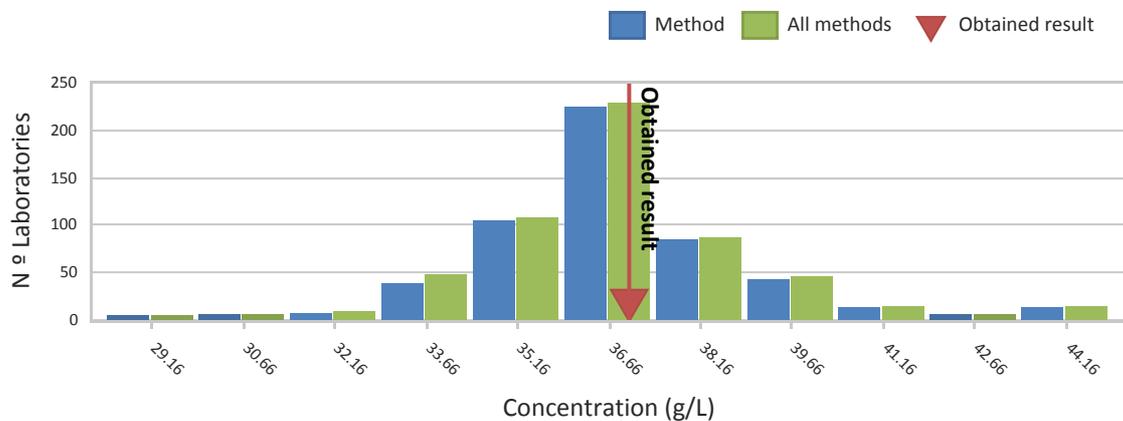
	Method	All methods
Number of results	546	573
Robust mean (g/L)	36.69	36.66
Laboratories standard deviation (g/L)	1.80	1.87
Uncertainty (g/L)	0.097	0.098
CV (%)	4.9	5.1

### Laboratory data:

Obtained result	37.00 g/L	
Relative error (%)	0.8	0.9
z-score	0.15	0.17
Performance standard dev. (Spt) (g/L) (used to calculate the z-score)	2.00	2.00

Analytical performance specification: 10.0 % (State of the Art)

Performance: **Satisfactory** (According to all methods)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

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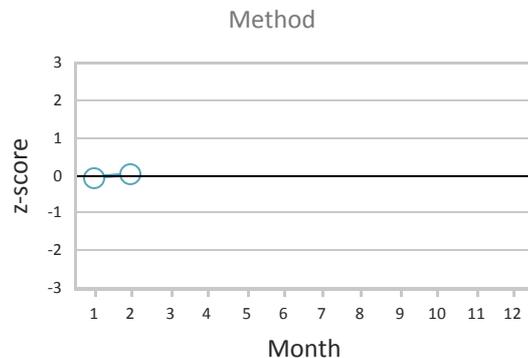
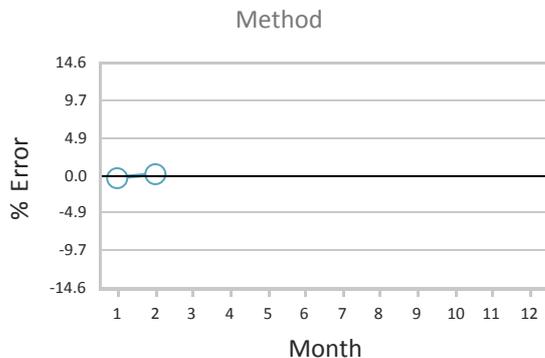
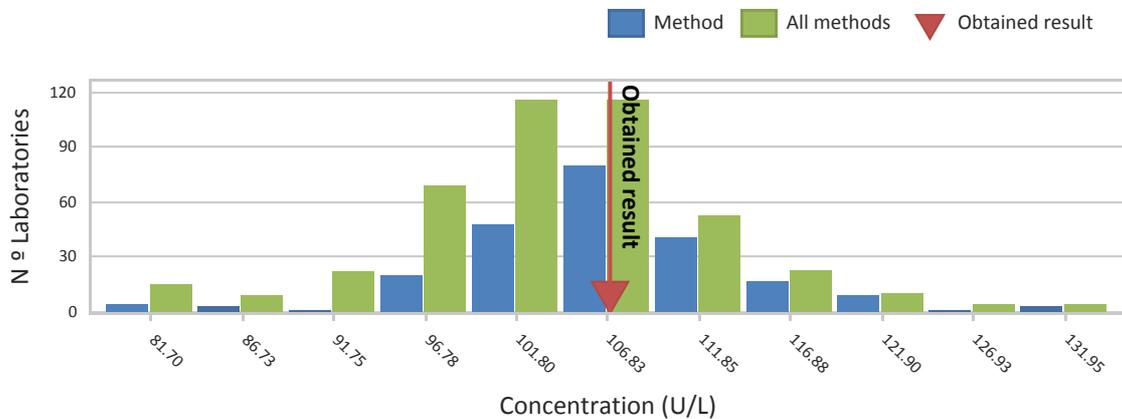
## Alfa-amylase

Method: (0330) Substrate derived maltotriose. (CNP)  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	227	441
Robust mean (U/L)	106.83	103.88
Laboratories standard deviation (U/L)	6.36	7.43
Uncertainty (U/L)	0.528	0.442
CV (%)	6.0	7.2

Laboratory data:	Method	All methods
Obtained result	107.00 U/L	
Relative error (%)	0.2	3.0
z-score	0.03	0.40
Performance standard dev. (Spt) (U/L) (used to calculate the z-score)	6.70	7.80

Analytical performance specification: 14.6 % (Biological variation, Desirable level)  
 Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

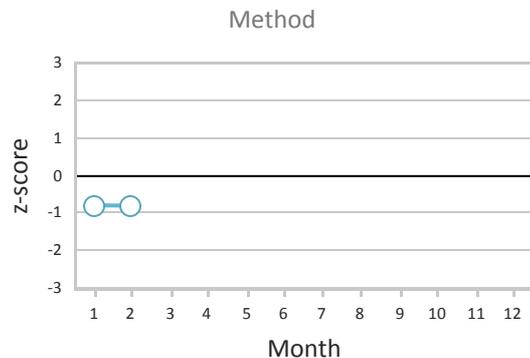
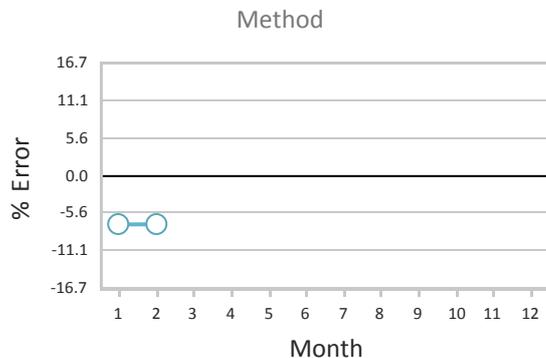
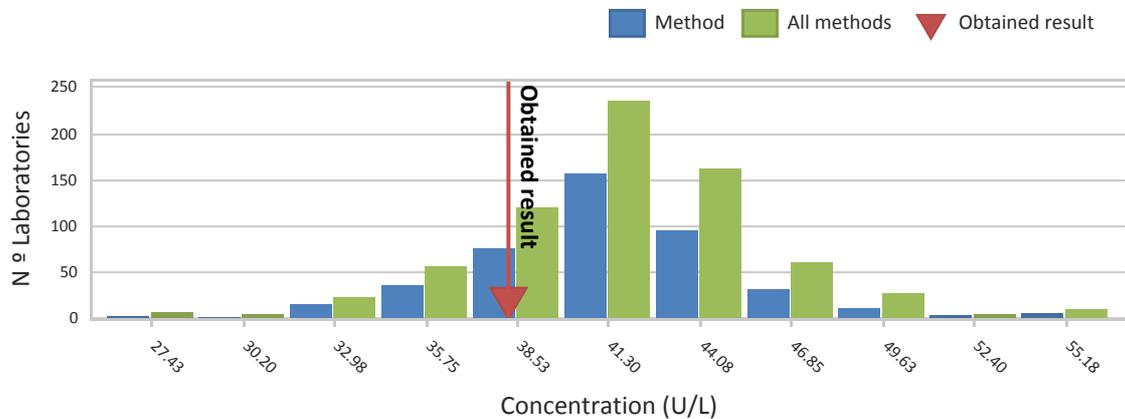
## Aspartate aminotransferase

Method: (0420) Measurement of NADH 340nm Without Pyridoxal Phosphate  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	430	707
Robust mean (U/L)	41.30	41.56
Laboratories standard deviation (U/L)	3.41	3.64
Uncertainty (U/L)	0.206	0.171
CV (%)	8.3	8.8

Laboratory data:	Method	All methods
Obtained result	38.30 U/L	
Relative error (%)	-7.3	-7.8
z-score	-0.81	-0.84
Performance standard dev. (Spt) (U/L) (used to calculate the z-score)	3.70	3.90

Analytical performance specification: 16.7% (Biological variation, Desirable level)  
 Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

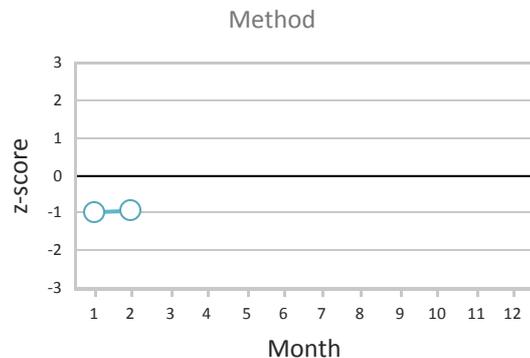
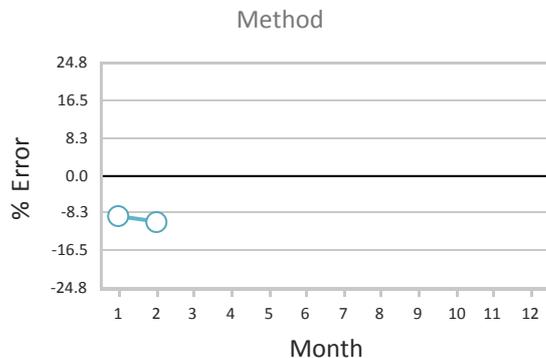
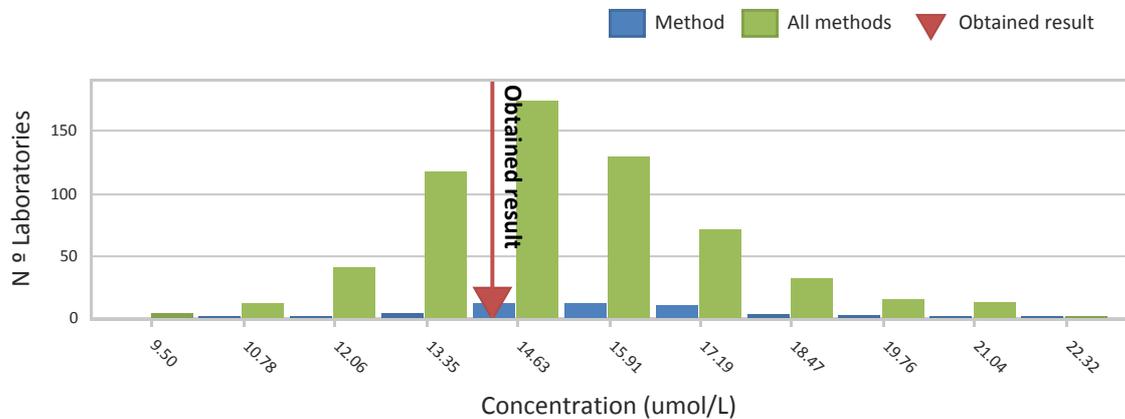
## Total bilirubin

Method: (0517) Diazo with dichloroaniline  
 Reagent: Others reagents / Otros react.  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	47	612
Robust mean (umol/L)	15.91	15.03
Laboratories standard deviation (umol/L)	1.89	1.89
Uncertainty (umol/L)	0.344	0.096
CV (%)	11.9	12.6

Laboratory data:	Method	All methods
Obtained result	14.29 umol/L	
Relative error (%)	-10.2	-4.9
z-score	-0.95	-0.43
Performance standard dev. (Spt) (umol/L) (used to calculate the z-score)	1.71	1.71

Analytical performance specification: 24.8 % (Biological variation, Desirable level)  
 Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

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## Calcium

Method: (0612) Arsenazo III  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

### Statistical Global Data:

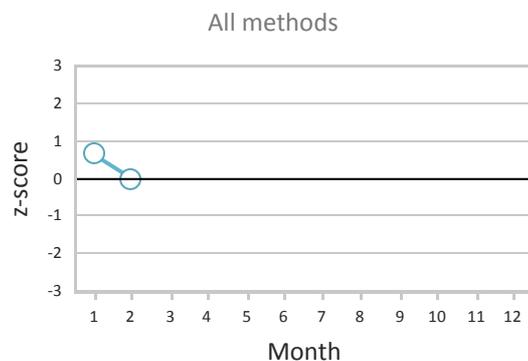
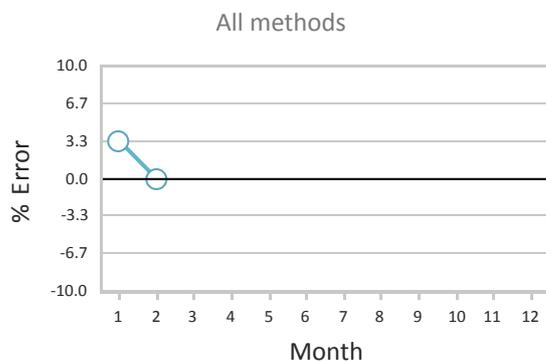
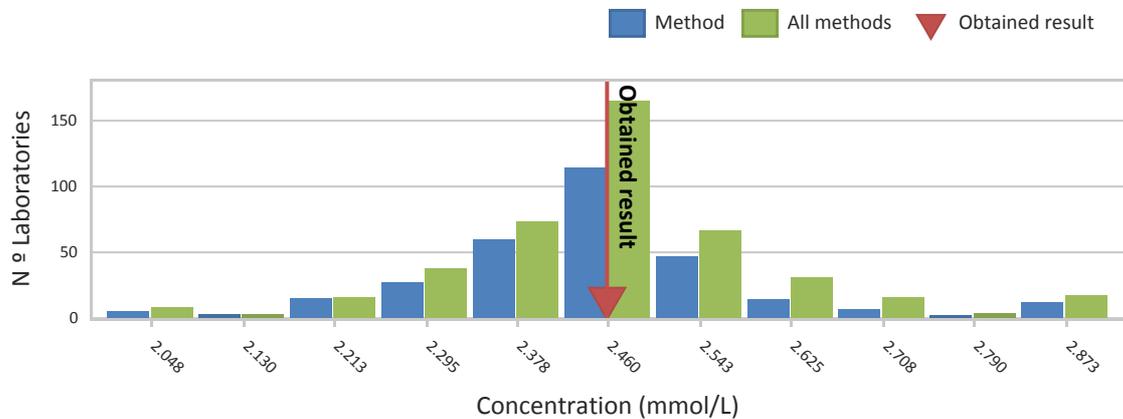
	Method	All methods
Number of results	307	440
Robust mean (mmol/L)	2.45	2.46
Laboratories standard deviation (mmol/L)	0.11	0.12
Uncertainty (mmol/L)	0.008	0.007
CV (%)	4.5	4.8

### Laboratory data:

Obtained result	2.46 mmol/L	
Relative error (%)	0.6	0.0
z-score	0.13	0.00
Performance standard dev. (Spt) (mmol/L) (used to calculate the z-score)	0.11	0.11

Analytical performance specification: 10.0 % (State of the Art)

Performance: **Satisfactory** (According to all methods)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

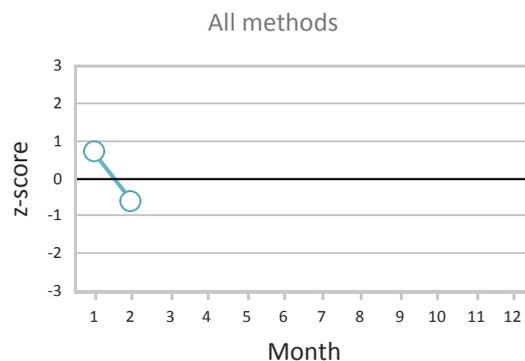
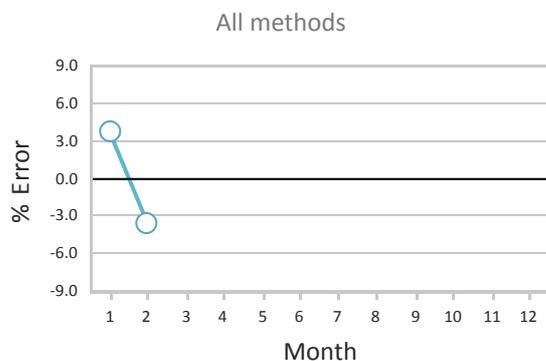
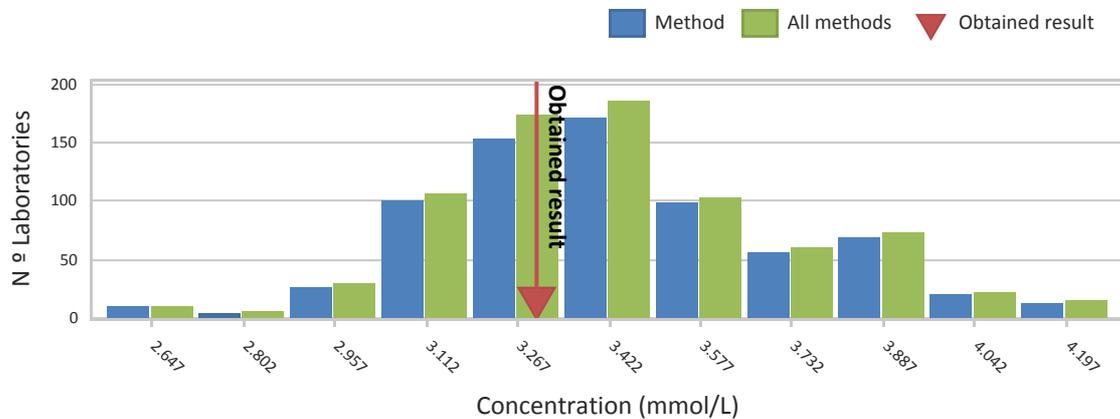
## Cholesterol

Method: (0810) Cholesterol esterase, oxidase and peroxidase.  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	721	785
Robust mean (mmol/L)	3.43	3.42
Laboratories standard deviation (mmol/L)	0.30	0.29
Uncertainty (mmol/L)	0.014	0.013
CV (%)	8.6	8.6

Laboratory data:	Method	All methods
Obtained result	3.30 mmol/L	
Relative error (%)	-3.7	-3.6
z-score	-0.62	-0.59
Performance standard dev. (Spt) (mmol/L) (used to calculate the z-score)	0.20	0.21

Analytical performance specification: 9.0 % (Biological variation, Desirable level)  
 Performance: **Satisfactory** (According to all methods)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

## HDL Cholesterol

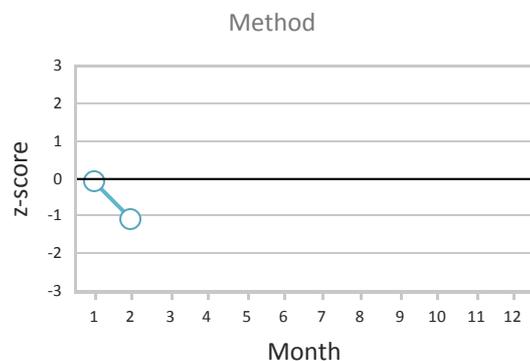
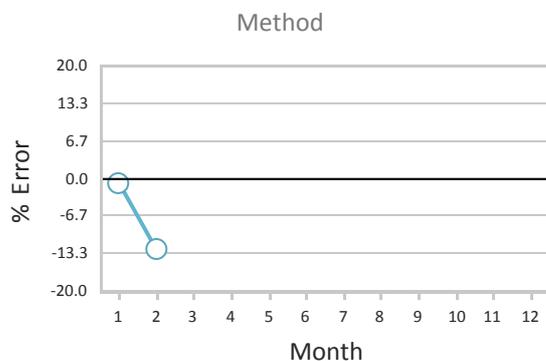
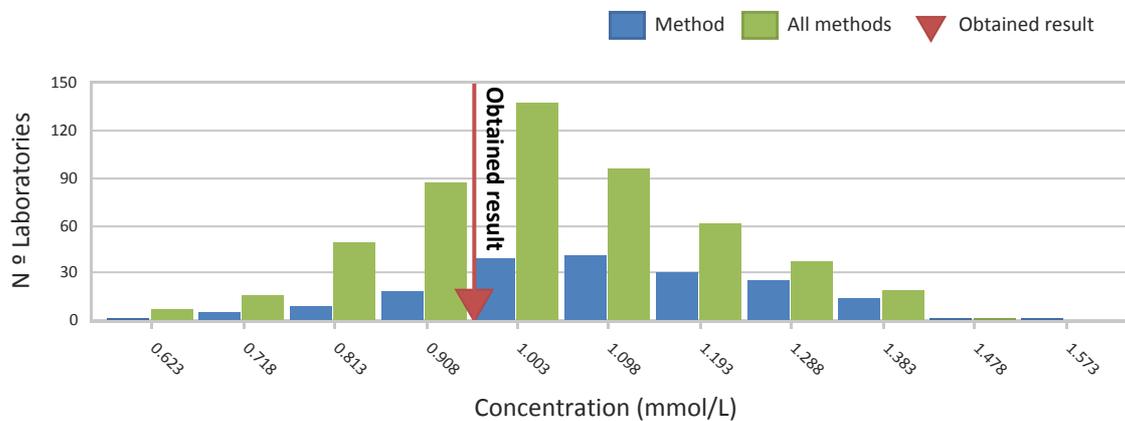
Method: (0920) Direct homogeneous methods Synthetic polymer and detergent.  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	184	511
Robust mean (mmol/L)	1.10	1.03
Laboratories standard deviation (mmol/L)	0.17	0.16
Uncertainty (mmol/L)	0.016	0.009
CV (%)	15.8	15.7

### Laboratory data:

Obtained result	0.96 mmol/L	
Relative error (%)	-12.6	-6.6
z-score	-1.09	-0.36
Performance standard dev. (Spt) (mmol/L) (used to calculate the z-score)	0.13	0.19

Analytical performance specification: 20.0 % (State of the Art)  
 Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

## Creatine kinase

Method: (1010) Creatine phosphate substrate 340nm. NAC activator IFCC  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

### Statistical Global Data:

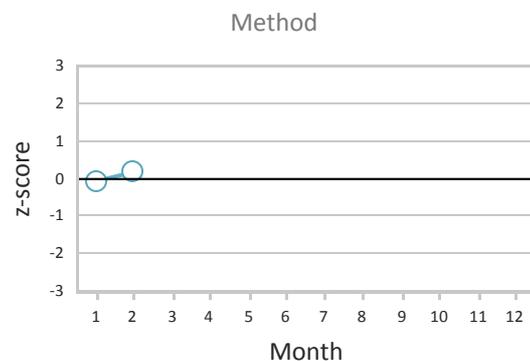
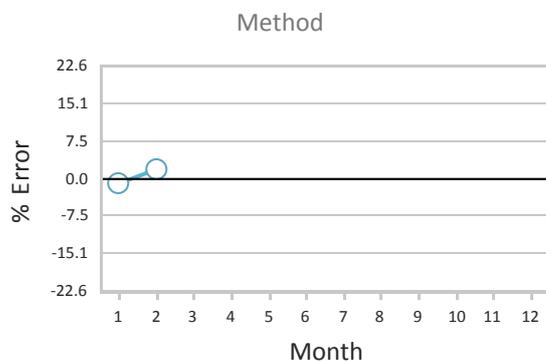
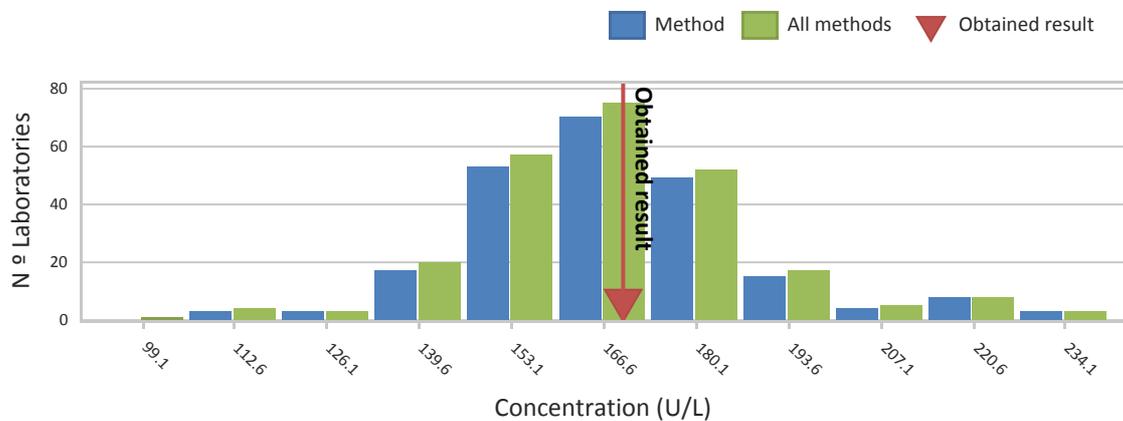
	Method	All methods
Number of results	225	245
Robust mean (U/L)	166.64	166.38
Laboratories standard deviation (U/L)	17.18	17.55
Uncertainty (U/L)	1.432	1.402
CV (%)	10.3	10.5

### Laboratory data:

Obtained result	169.60 U/L	
Relative error (%)	1.8	1.9
z-score	0.16	0.17
Performance standard dev. (Spt) (U/L) (used to calculate the z-score)	18.00	19.00

Analytical performance specification: 22.6 % (Biological variation, Desirable level)

Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

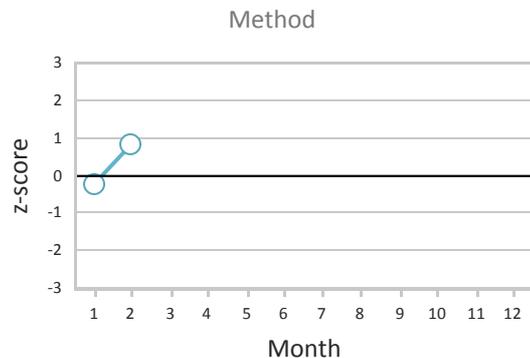
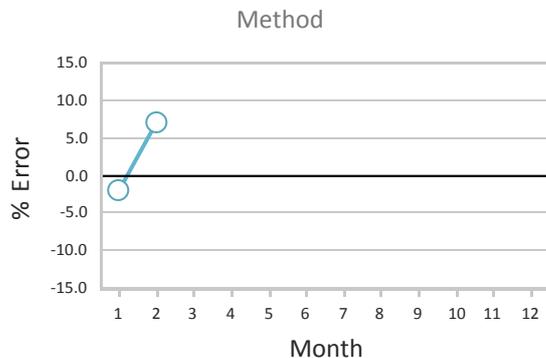
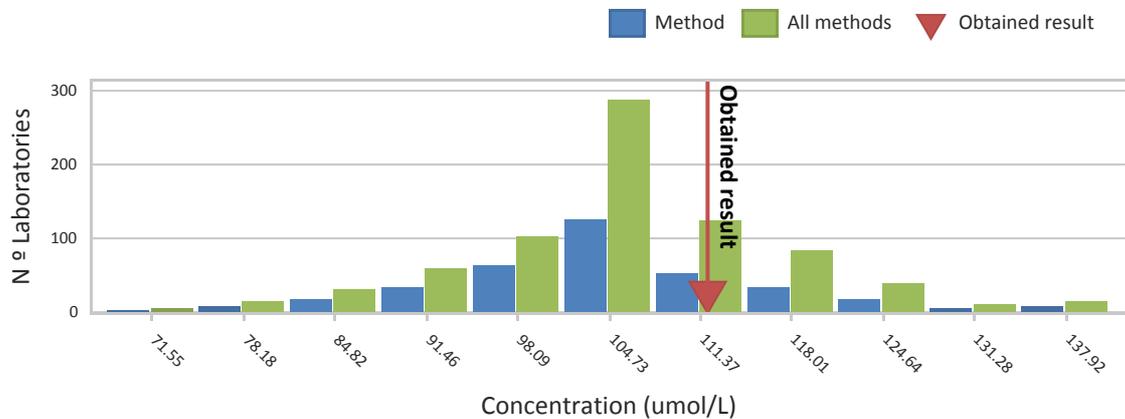
## Creatinine

Method: (1110) Alkaline picrate (Jaffé) compensated  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	367	771
Robust mean (umol/L)	104.73	105.78
Laboratories standard deviation (umol/L)	10.21	9.60
Uncertainty (umol/L)	0.666	0.432
CV (%)	9.7	9.1

Laboratory data:	Method	All methods
Obtained result	112.00 umol/L	
Relative error (%)	6.9	5.9
z-score	0.82	0.70
Performance standard dev. (Spt) (umol/L) (used to calculate the z-score)	8.85	8.85

Analytical performance specification: 15.0 % (State of the Art)  
 Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

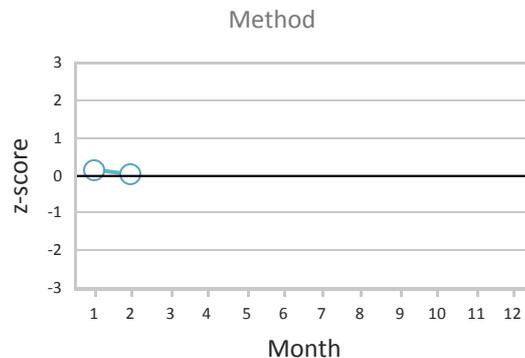
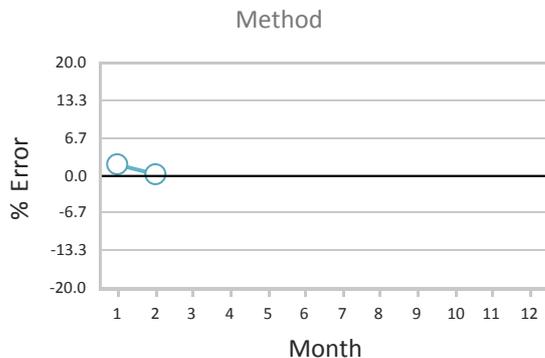
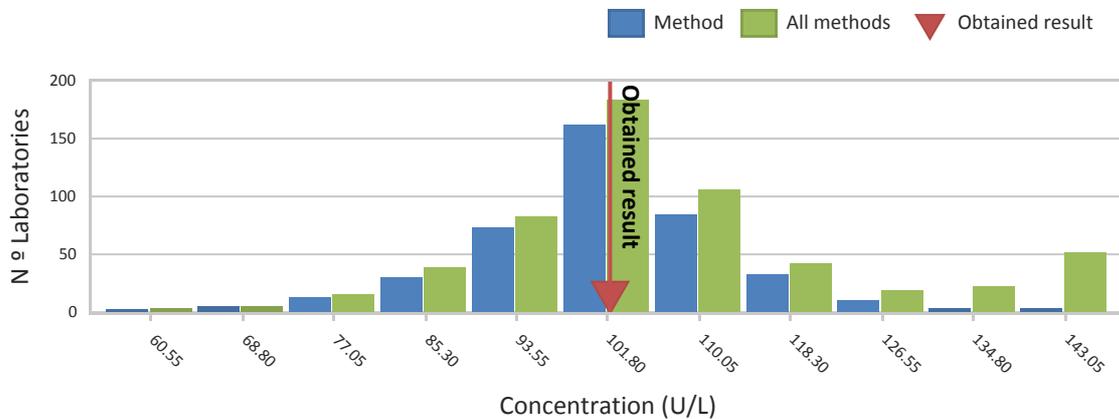
## Alkaline phosphatase

Method: (1310) 4-Nitrophenyl phosphate. Buffer AMP IFCC  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	419	570
Robust mean (U/L)	101.80	105.41
Laboratories standard deviation (U/L)	9.99	14.31
Uncertainty (U/L)	0.610	0.749
CV (%)	9.8	13.6

Laboratory data:	Method	All methods
Obtained result	102.00 U/L	
Relative error (%)	0.2	-3.2
z-score	0.02	-0.21
Performance standard dev. (Spt) (U/L) (used to calculate the z-score)	11.00	16.00

Analytical performance specification: 20.0 % (State of the Art)  
 Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

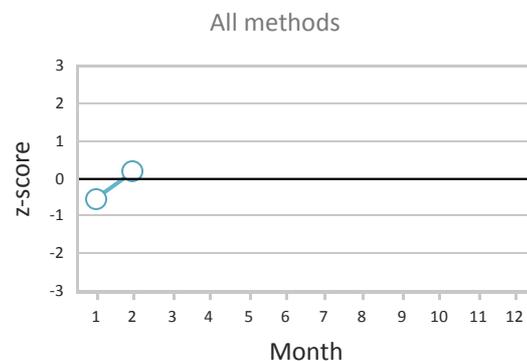
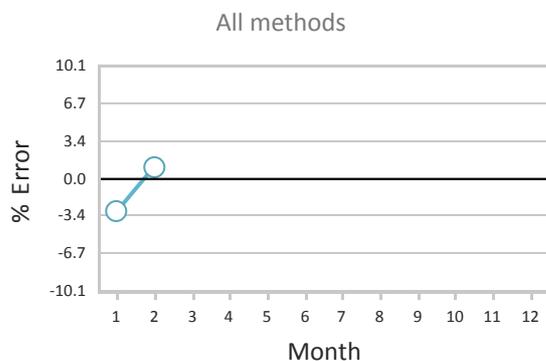
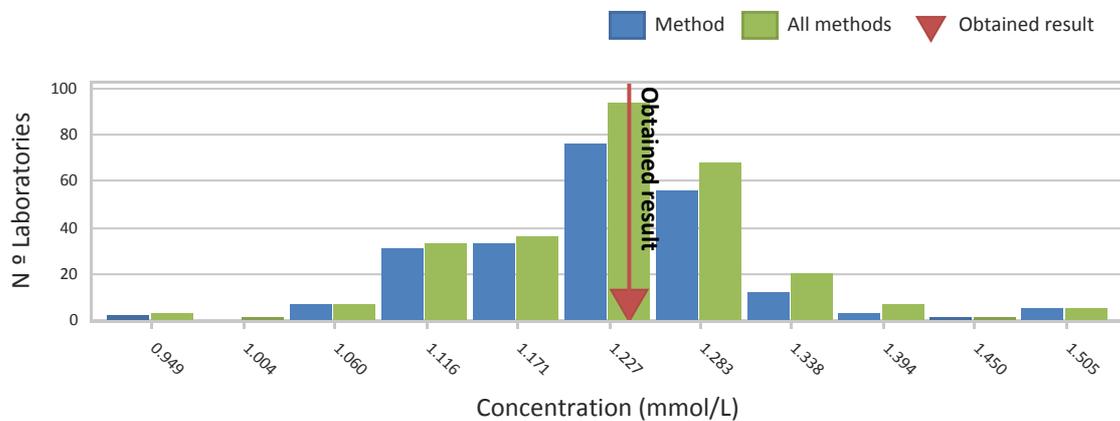
## Inorganic Phosphate

Method: (1410) Phosphomolybdate. with measurement at 340 nm.  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	226	275
Robust mean (mmol/L)	1.22	1.23
Laboratories standard deviation (mmol/L)	0.08	0.08
Uncertainty (mmol/L)	0.006	0.006
CV (%)	6.2	6.2

Laboratory data:	Method	All methods
Obtained result	1.24 mmol/L	
Relative error (%)	1.6	1.1
z-score	0.28	0.17
Performance standard dev. (Spt) (mmol/L) (used to calculate the z-score)	0.07	0.07

Analytical performance specification: 10.1 % (Biological variation, Desirable level)  
 Performance: **Satisfactory** (According to all methods)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

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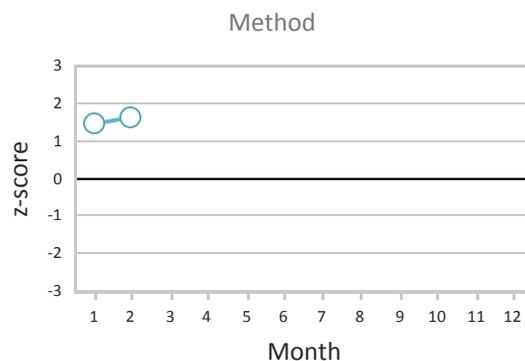
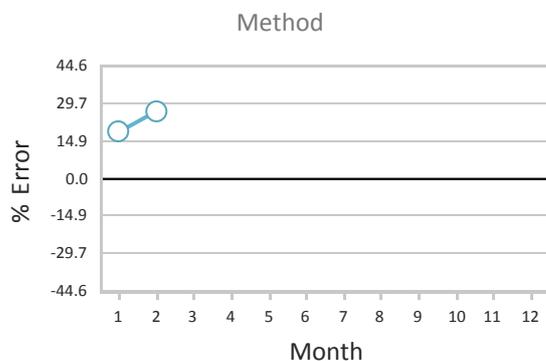
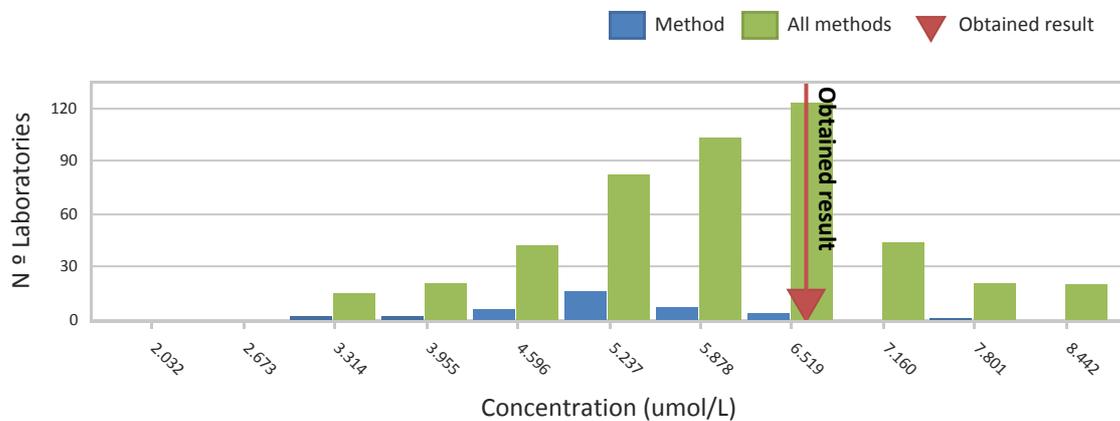
## Direct bilirubin

Method: (1517) Diazo with dichloroaniline  
 Reagent: Others reagents / Otros react.  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	38	471
Robust mean (umol/L)	5.24	5.99
Laboratories standard deviation (umol/L)	0.80	1.13
Uncertainty (umol/L)	0.162	0.065
CV (%)	15.2	18.9

Laboratory data:	Method	All methods
Obtained result	6.62 umol/L	
Relative error (%)	26.4	10.4
z-score	1.62	0.52
Performance standard dev. (Spt) (umol/L) (used to calculate the z-score)	0.85	1.20

Analytical performance specification: 44.6 % (State of the Art)  
 Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

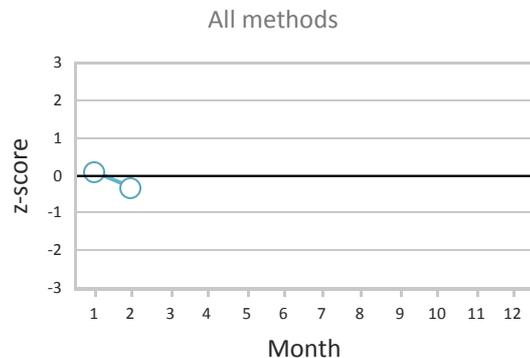
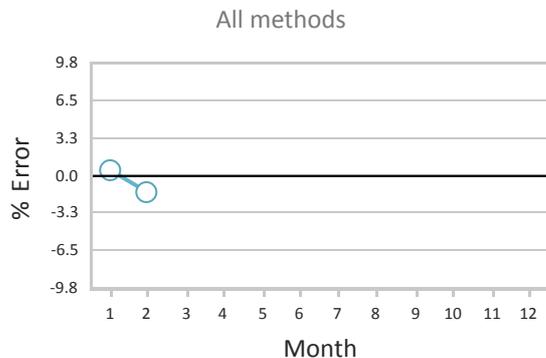
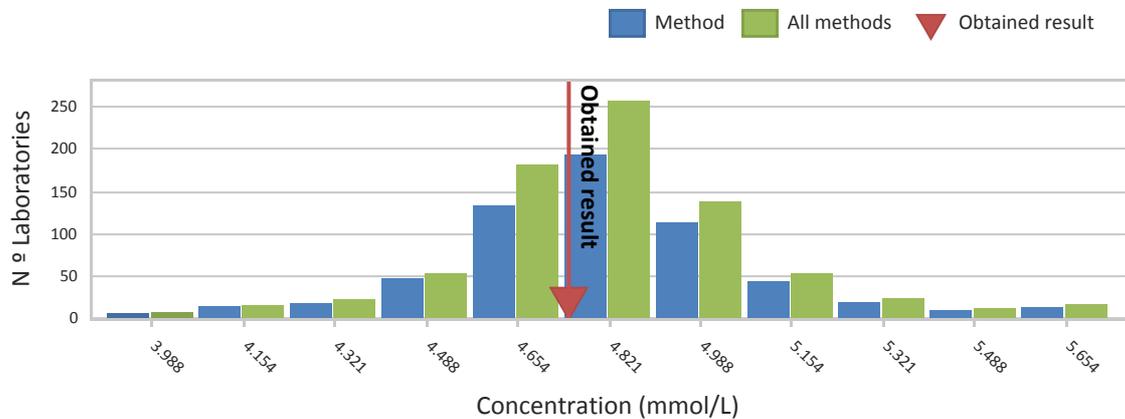
## Glucose

Method: (1610) Glucose oxidase  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	608	779
Robust mean (mmol/L)	4.82	4.82
Laboratories standard deviation (mmol/L)	0.23	0.22
Uncertainty (mmol/L)	0.012	0.010
CV (%)	4.8	4.6

Laboratory data:	Method	All methods
Obtained result	4.75 mmol/L	
Relative error (%)	-1.5	-1.5
z-score	-0.31	-0.32
Performance standard dev. (Spt) (mmol/L) (used to calculate the z-score)	0.23	0.22

Analytical performance specification: 9.8 % (Biological variation, Minimum level)  
 Performance: **Satisfactory** (According to all methods)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

## Gamma-Glutamyltransferase

Method: (1710) Gamma-glutamyl-3-C-4-N substr.[Substrate]>4 mmol/L IFCC  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

### Statistical Global Data:

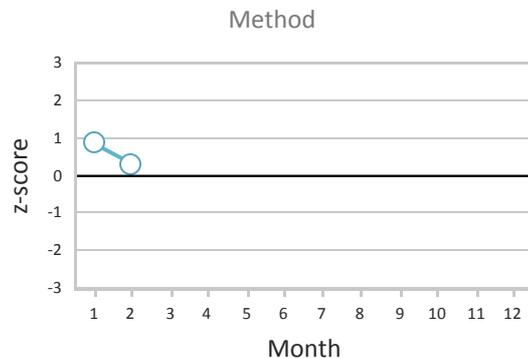
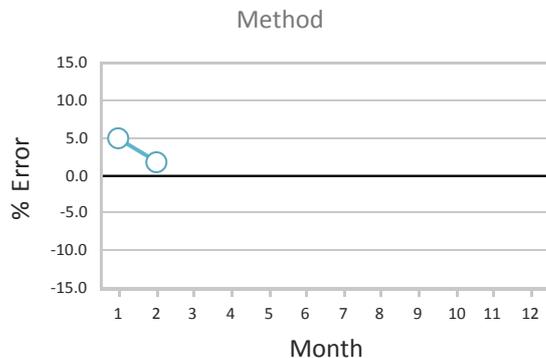
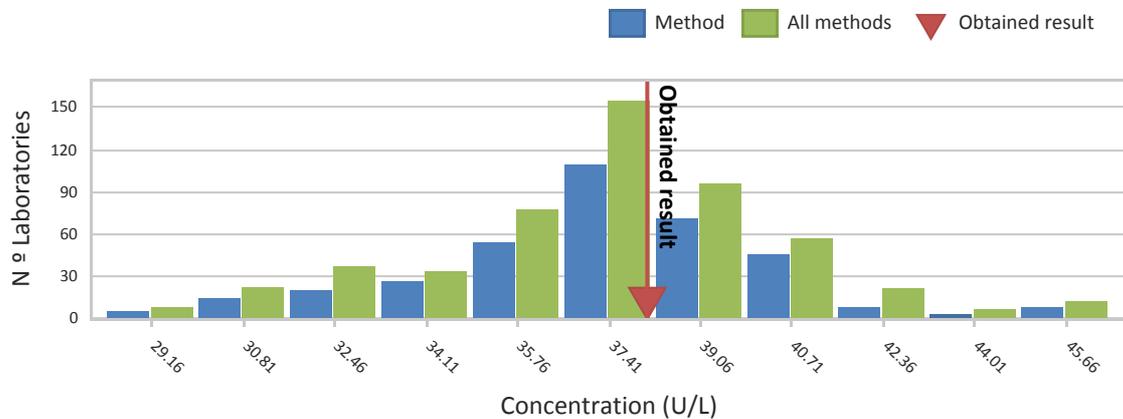
	Method	All methods
Number of results	363	524
Robust mean (U/L)	37.41	37.37
Laboratories standard deviation (U/L)	2.69	2.93
Uncertainty (U/L)	0.176	0.160
CV (%)	7.2	7.9

### Laboratory data:

Obtained result	38.10 U/L	
Relative error (%)	1.9	2.0
z-score	0.31	0.28
Performance standard dev. (Spt) (U/L) (used to calculate the z-score)	2.20	2.60

Analytical performance specification: 15.0 % (Biological variation, Desirable level)

Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

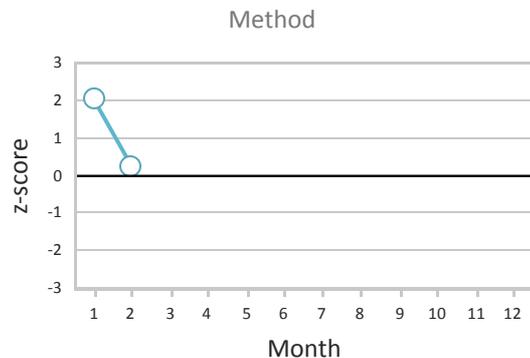
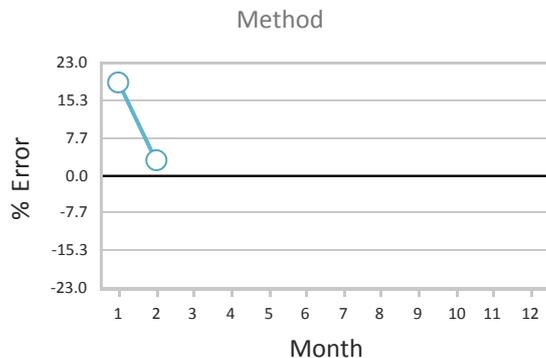
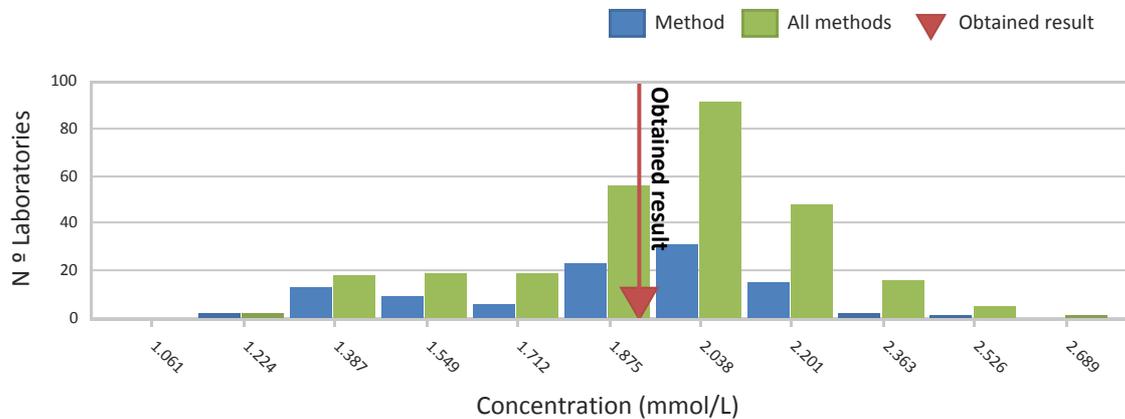
## LDL Cholesterol

Method: (1820) Direct homogeneous methods Synthetic polymer and detergent  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	102	275
Robust mean (mmol/L)	1.88	1.97
Laboratories standard deviation (mmol/L)	0.30	0.25
Uncertainty (mmol/L)	0.037	0.019
CV (%)	15.9	12.5

Laboratory data:	Method	All methods
Obtained result	1.93 mmol/L	
Relative error (%)	2.9	-2.1
z-score	0.25	-0.14
Performance standard dev. (Spt) (mmol/L) (used to calculate the z-score)	0.22	0.29

Analytical performance specification: 23.0 % (State of the Art)  
 Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

# PREVECAL

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## Iron

Method: (1911) Ferrozine  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

### Statistical Global Data:

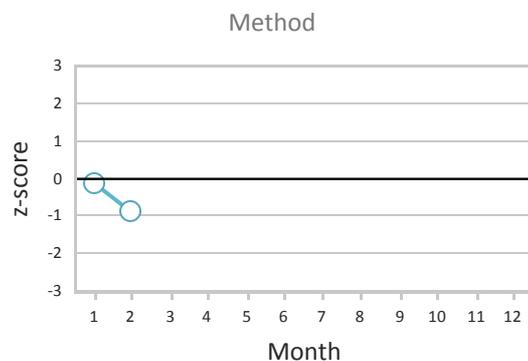
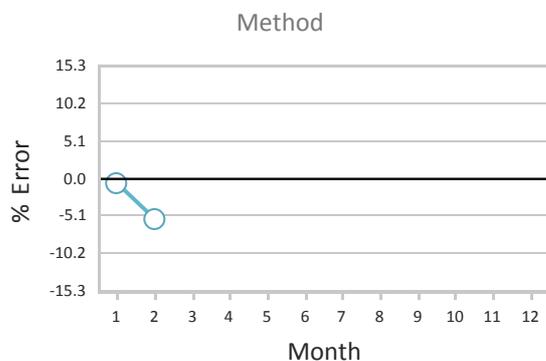
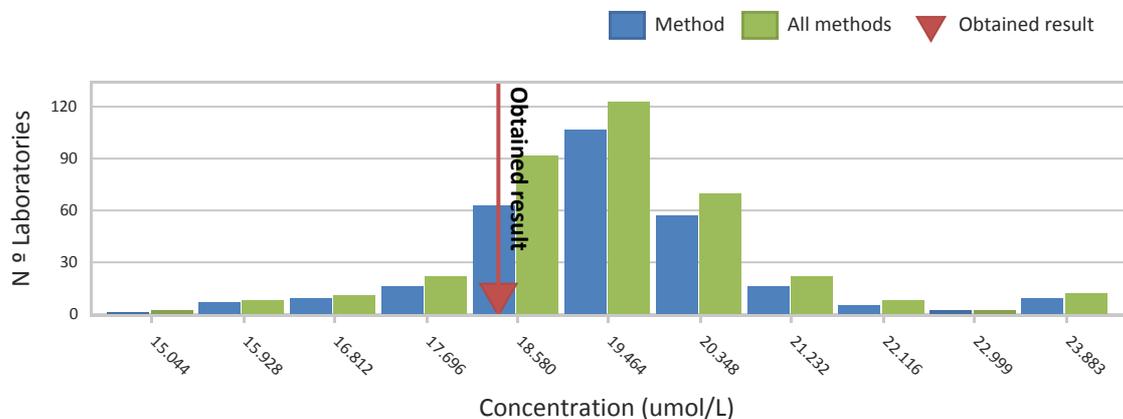
	Method	All methods
Number of results	292	372
Robust mean (umol/L)	19.46	19.44
Laboratories standard deviation (umol/L)	1.00	1.06
Uncertainty (umol/L)	0.073	0.069
CV (%)	5.1	5.5

### Laboratory data:

Obtained result	18.40 umol/L	
Relative error (%)	-5.5	-5.3
z-score	-0.90	-0.78
Performance standard dev. (Spt) (umol/L) (used to calculate the z-score)	1.18	1.32

Analytical performance specification: 15.3 % (Biological variation, Optimum level)

Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

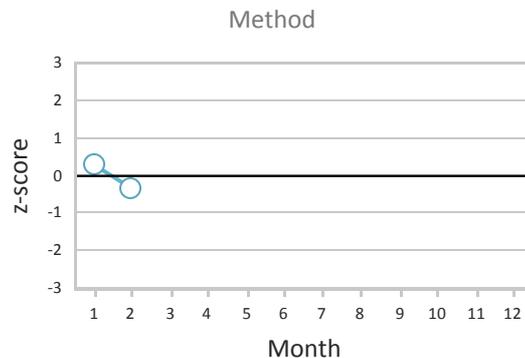
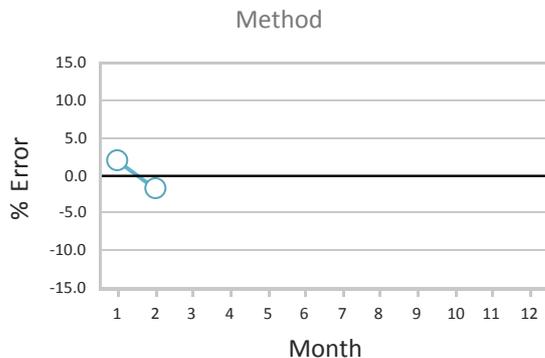
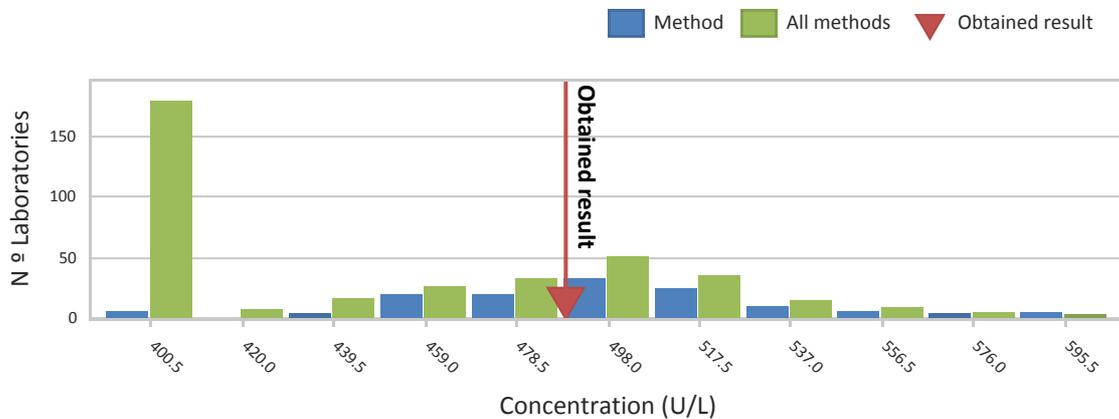
## Lactate dehydrogenase

Method: (2010) Pyruvate subs. TRIS buffer  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	133	380
Robust mean (U/L)	497.96	377.48
Laboratories standard deviation (U/L)	35.32	146.48
Uncertainty (U/L)	3.828	9.393
CV (%)	7.1	38.8

Laboratory data:	Method	All methods
Obtained result	489.00 U/L	
Relative error (%)	-1.8	29.5
z-score	-0.34	0.86
Performance standard dev. (Spt) (U/L) (used to calculate the z-score)	26.00	130.00

Analytical performance specification: 15.0 % (State of the Art)  
 Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

## Magnesium

Method: (2120) Xilidyl blue.  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

### Statistical Global Data:

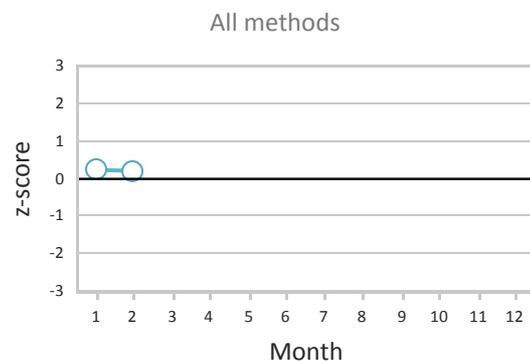
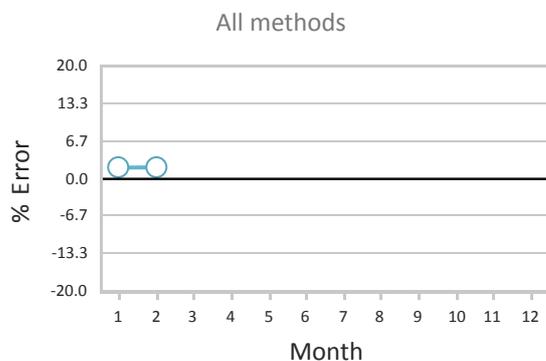
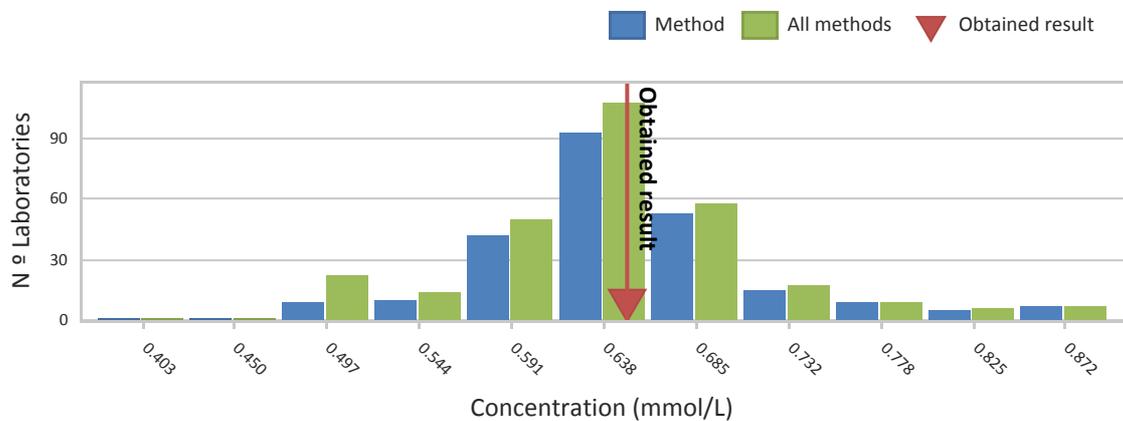
	Method	All methods
Number of results	245	293
Robust mean (mmol/L)	0.64	0.64
Laboratories standard deviation (mmol/L)	0.05	0.06
Uncertainty (mmol/L)	0.004	0.004
CV (%)	8.3	9.1

### Laboratory data:

Obtained result	0.65 mmol/L	
Relative error (%)	0.9	1.9
z-score	0.09	0.19
Performance standard dev. (Spt) (mmol/L) (used to calculate the z-score)	0.06	0.06

Analytical performance specification: 20.0 % (State of the Art)

Performance: **Satisfactory** (According to all methods)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

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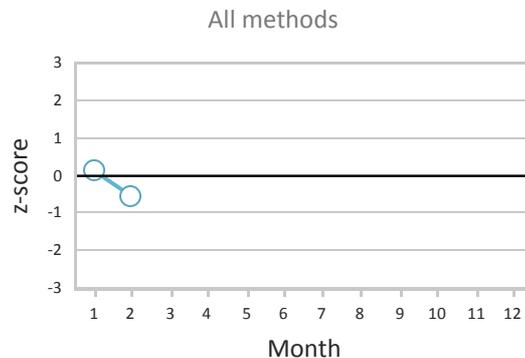
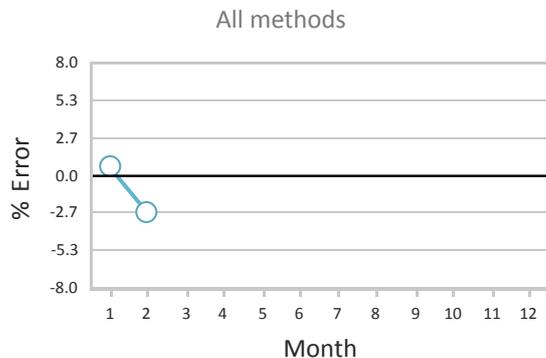
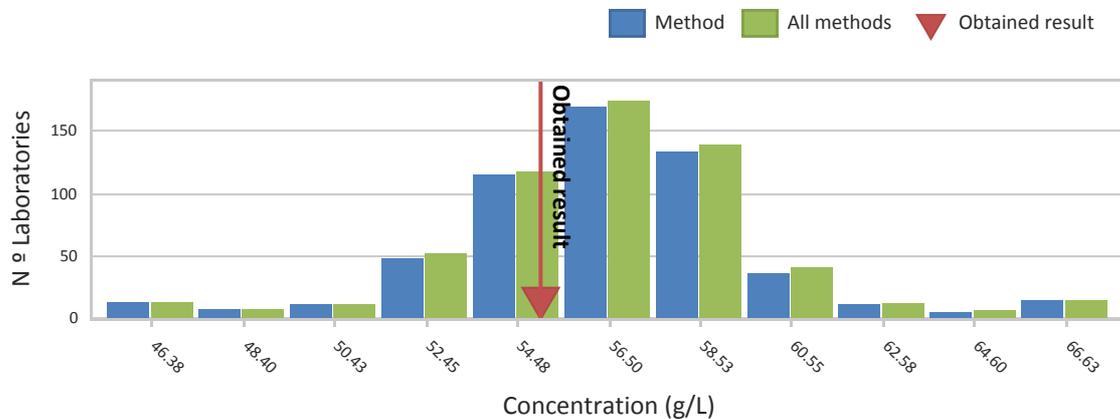
## Protein

Method: (2310) Biuret reaction.  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	564	588
Robust mean (g/L)	56.47	56.50
Laboratories standard deviation (g/L)	2.68	2.71
Uncertainty (g/L)	0.141	0.140
CV (%)	4.7	4.8

Laboratory data:	Method	All methods
Obtained result	55.00 g/L	
Relative error (%)	-2.6	-2.7
z-score	-0.54	-0.56
Performance standard dev. (Spt) (g/L) (used to calculate the z-score)	2.70	2.70

Analytical performance specification: 8.0 % (State of the Art)  
 Performance: **Satisfactory** (According to all methods)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

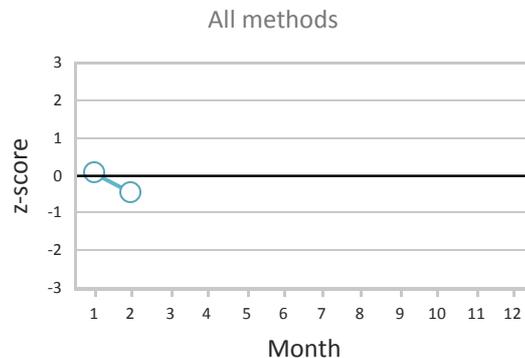
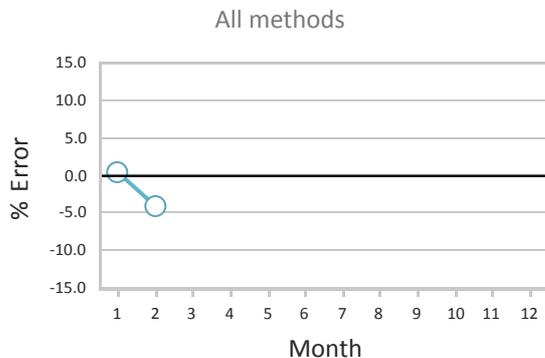
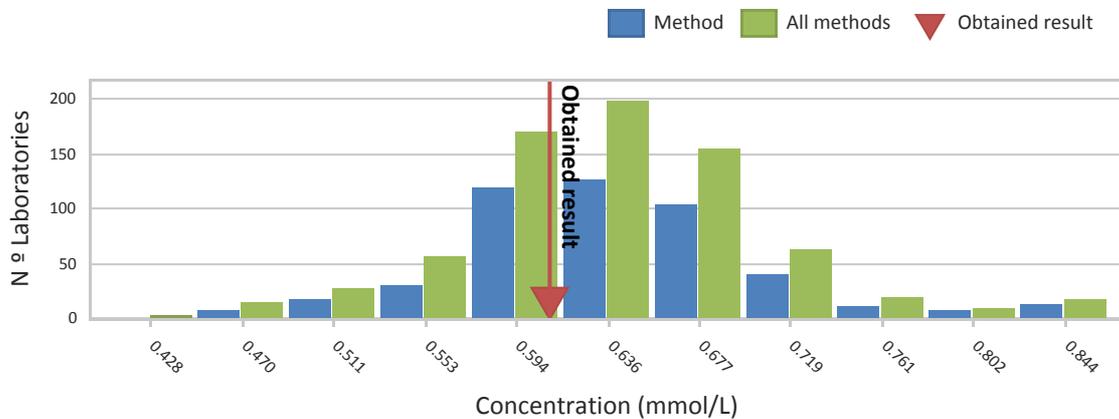
## Triglycerides

Method: (2510) Lipase glycerol Kinase colorimetric  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	475	732
Robust mean (mmol/L)	0.64	0.64
Laboratories standard deviation (mmol/L)	0.06	0.06
Uncertainty (mmol/L)	0.003	0.003
CV (%)	8.8	9.1

Laboratory data:	Method	All methods
Obtained result	0.61 mmol/L	
Relative error (%)	-4.3	-4.1
z-score	-0.51	-0.47
Performance standard dev. (Spt) (mmol/L) (used to calculate the z-score)	0.05	0.06

Analytical performance specification: 15.0 % (Biological variation, Optimum level)  
 Performance: **Satisfactory** (According to all methods)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

# PREVECAL

Code: 440005

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## Uric acid

Method: (2612) Uricase/Peroxidase.  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

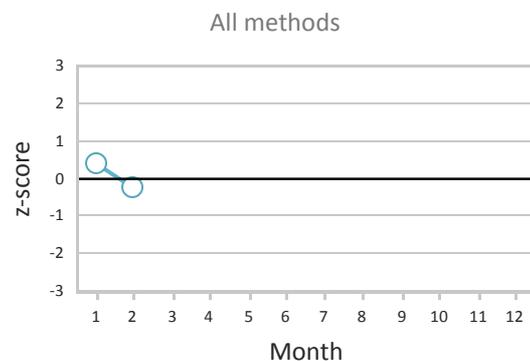
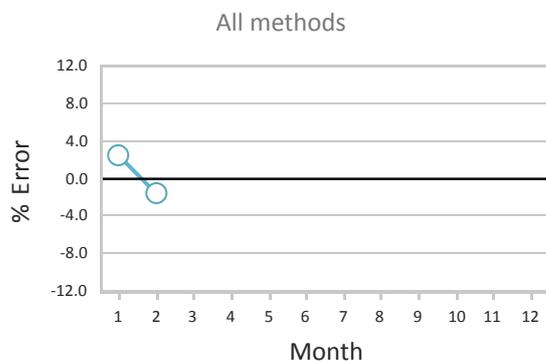
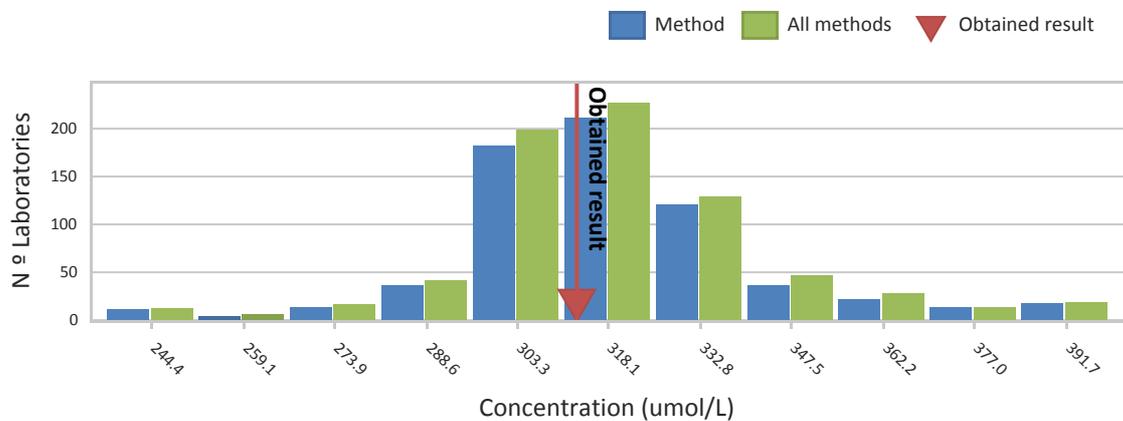
### Statistical Global Data:

	Method	All methods
Number of results	666	737
Robust mean (umol/L)	317.72	318.05
Laboratories standard deviation (umol/L)	18.48	19.35
Uncertainty (umol/L)	0.895	0.891
CV (%)	5.8	6.1

### Laboratory data:

Obtained result	312.90 umol/L	
Relative error (%)	-1.5	-1.6
z-score	-0.25	-0.26
Performance standard dev. (Spt) (umol/L) (used to calculate the z-score)	19.05	19.64

Analytical performance specification: 12.0 % (Biological variation, Desirable level)  
 Performance: **Satisfactory** (According to all methods)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

# PREVECAL

Code: 440005

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## Urea

Method: (2710) Glutamate dehydrogenase (UV).  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

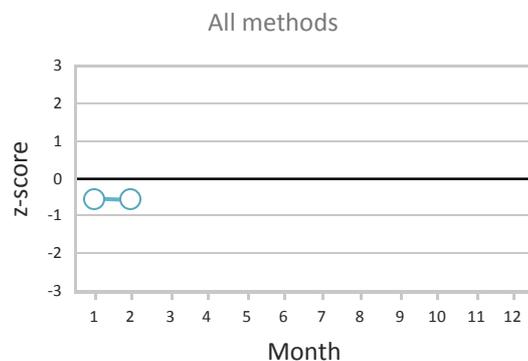
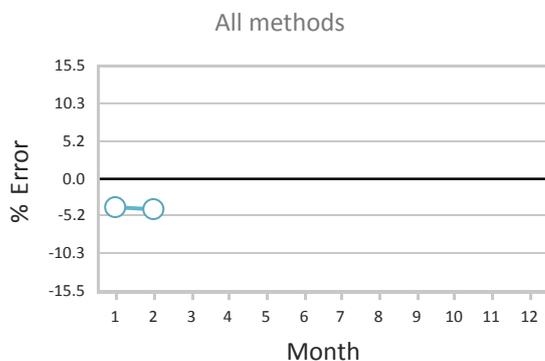
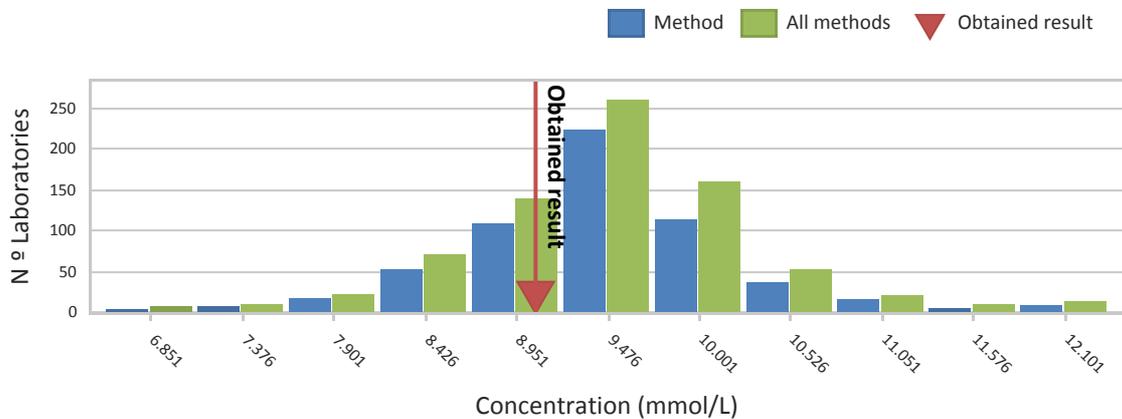
### Statistical Global Data:

	Method	All methods
Number of results	592	766
Robust mean (mmol/L)	9.46	9.48
Laboratories standard deviation (mmol/L)	0.64	0.69
Uncertainty (mmol/L)	0.033	0.031
CV (%)	6.8	7.3

### Laboratory data:

Obtained result	9.07 mmol/L	
Relative error (%)	-4.1	-4.3
z-score	-0.59	-0.58
Performance standard dev. (Spt) (mmol/L) (used to calculate the z-score)	0.65	0.70

Analytical performance specification: 15.5 % (Biological variation, Desirable level)  
 Performance: **Satisfactory** (According to all methods)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

# PREVECAL

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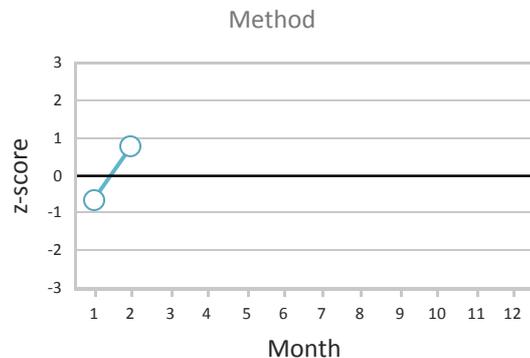
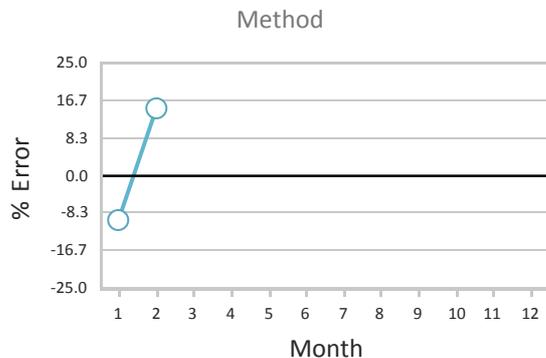
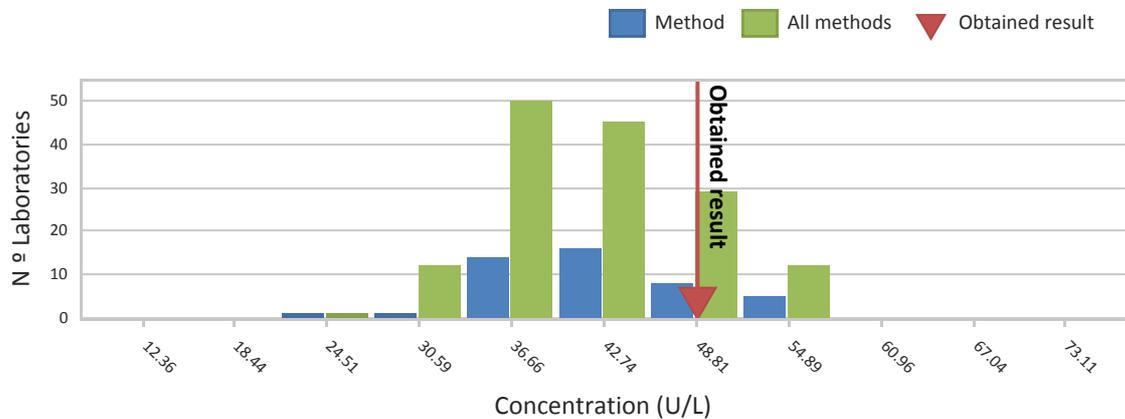
## Lipase

Method: (2910) Methyl and diethyresorufin ester substrate  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	45	149
Robust mean (U/L)	42.74	41.62
Laboratories standard deviation (U/L)	6.39	6.95
Uncertainty (U/L)	1.191	0.712
CV (%)	15.0	16.7

Laboratory data:	Method	All methods
Obtained result	49.00 U/L	
Relative error (%)	14.7	17.7
z-score	0.77	0.83
Performance standard dev. (Spt) (U/L) (used to calculate the z-score)	8.10	8.90

Analytical performance specification: 25.0 % (State of the Art)  
 Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

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## Alfa-amylase pancreatic

(Mensurands not included in the accreditation scope)

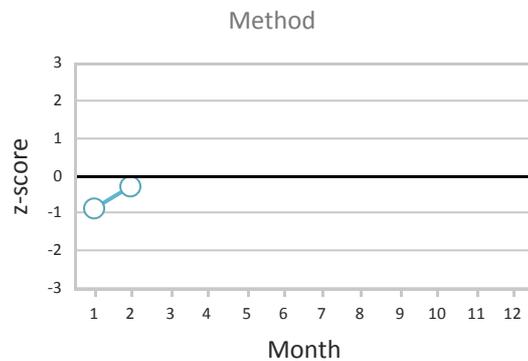
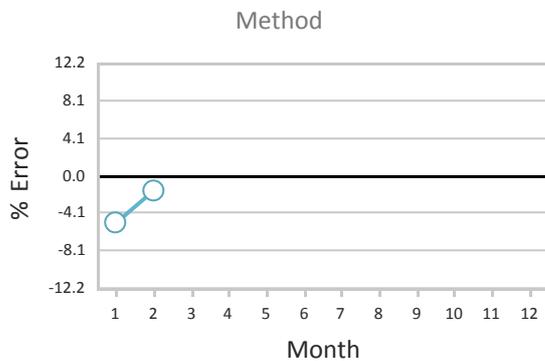
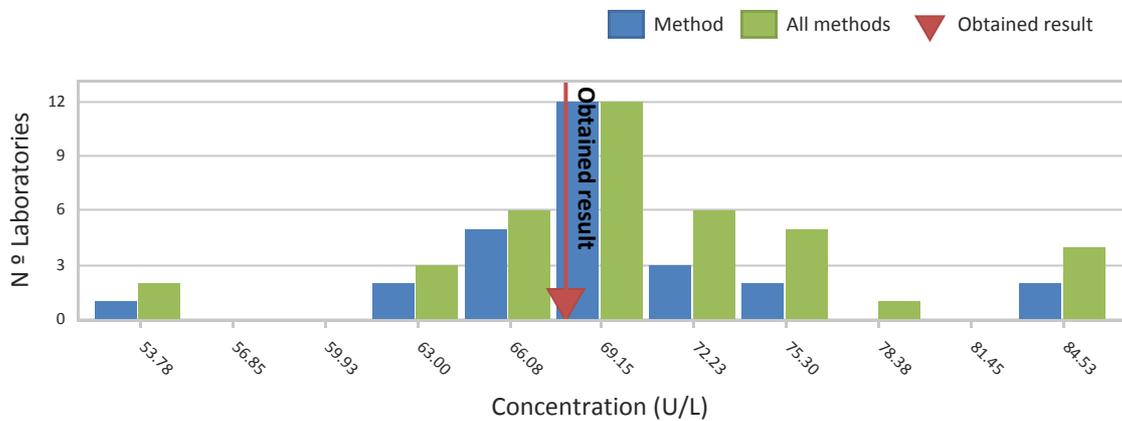
Method: (5210) Substrate deriv.maltoheptaose. Blocked with ethyldene IFCC  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	27	39
Robust mean (U/L)	69.15	70.23
Laboratories standard deviation (U/L)	3.62	5.29
Uncertainty (U/L)	0.871	1.059
CV (%)	5.2	7.5

Laboratory data:	Method	All methods
Obtained result	68.00 U/L	
Relative error (%)	-1.7	-3.2
z-score	-0.28	-0.46
Performance standard dev. (Spt) (U/L) (used to calculate the z-score)	4.10	4.80

Analytical performance specification: 12.2 % (Biological variation, Desirable level)

Performance: **Satisfactory** (According to your method)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

# PREVECAL

Code: 440005

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## Zinc

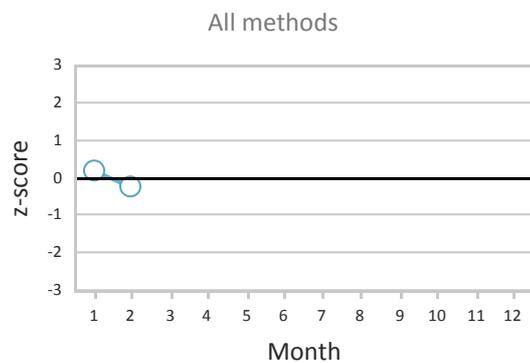
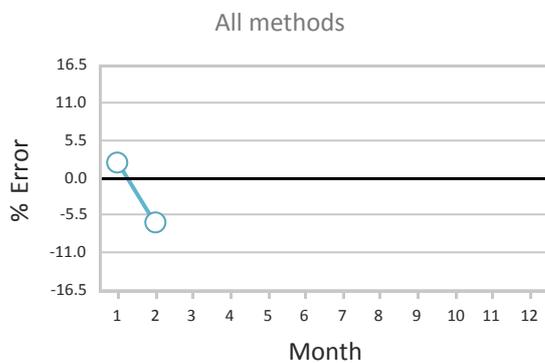
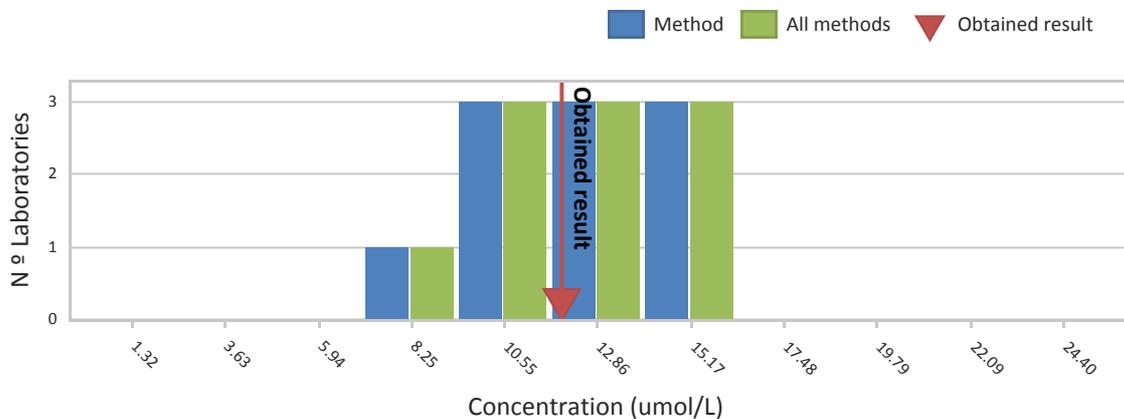
(Mensurands not included in the accreditation scope)

Method: (5710) Bromo-PAPS  
 Reagent: Biosystems  
 Instrument: Konelab 20-60

Statistical Global Data:	Method	All methods
Number of results	10	10
Robust mean (umol/L)	12.86	12.86
Laboratories standard deviation (umol/L)	2.90	2.90
Uncertainty (umol/L)	1.147	1.147
CV (%)	22.6	22.6

Laboratory data:	Method	All methods
Obtained result	12.00 umol/L	
Relative error (%)	-6.7	-6.7
z-score	-0.27	-0.26
Performance standard dev. (Spt) (umol/L) (used to calculate the z-score)	2.92	3.08

Analytical performance specification: 16.5 % (Biological variation, Minimum level)  
 Performance: **Satisfactory** (According to all methods)



- Outlier datum. Result not considered in the calculations.
- Off chart result. See the corresponding monthly report.

The z-score and error results should be taken with caution as the consensus value is either not robust (due to the small number of results) or has a high measurement uncertainty. z-score by method has been calculated as z'-score. z-score all methods has been calculated as z1-score.