

Clinical Chemistry, blood 2023.4

<p>Scheme Period</p>	<p>Clinical Chemistry, blood 2023.4 October 1, 2023 - December 31, 2023</p>
<p>Report for</p>	
<p>Subscriptions Supervision and report authorisation</p>	<p>111 dr. H. van der Vuurst (Coördinator) reachable at office@skml.nl</p>
<p>Reference</p>	<p>MUSE manual and Analyte specifications</p> <p>On the SKML website you will find the MUSE manual and an overview of all analytes of all schemes. For each analyte the overview shows the source of the target value, the tolerance and what it is based on. The type of material and the specification of the commutability, homogeneity and stability have been included as well. Older versions of these documents are available upon request.</p>

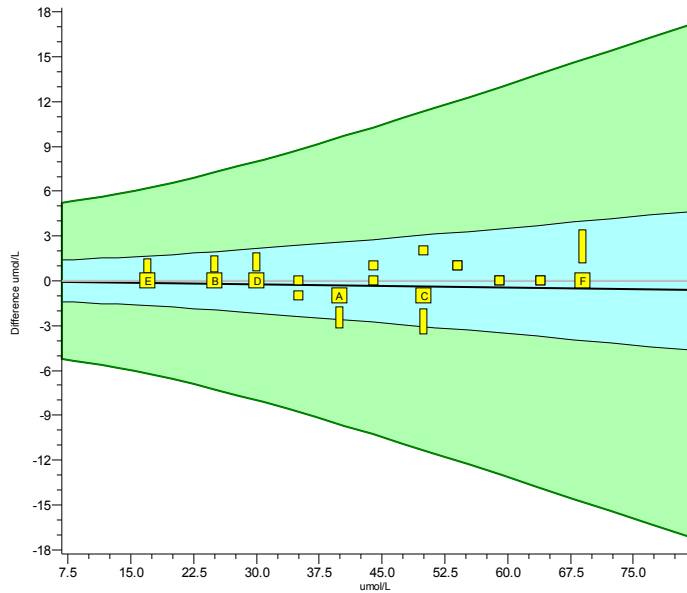
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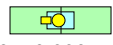
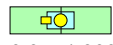
Analyte	Unit	Trueness				Precision		Performance			
		your mean	ref.	cons.	SDBI	your SD	SDwI	this survey	PS	cumulative	PSc
Iron	umol/L	38.7		39.0	1.2	0.7	0.7		2		2
Glucose	mmol/L	10.66	10.45	10.64	0.25	0.20	0.18		2		2
Sodium	mmol/L	142.5	143.2	142.1	1.5	1.5	1.0		1		1
Potassium	mmol/L	4.94	4.87	4.89	0.07	0.04	0.05		2		2
Lithium	mmol/L	1.287	1.308	1.286	0.036	0.043	0.035		1		1
Chloride	mmol/L	108.3	110.0	108.2	2.6	0.7	0.9		2		2
Osmolality	mosm/kg	306.3		305.6	4.8	2.8	2.4		2		1
Creatinine	umol/L	155.9	155.5	156.3	3.4	2.0	2.4		2		2
eGFR (F, 55, white)	mL/min/{1.73_m2}	34.7	34.9	34.7	1.9	0.9	1.3		2		2
Urea	mmol/L	11.12		11.07	0.39	0.21	0.24		2		2
Calcium	mmol/L	2.348	2.354	2.361	0.051	0.037	0.031		1		1
Corrected Calcium	mmol/L	2.15		2.17	0.09	0.04	0.04		1		1
Magnesium	mmol/L	1.200	1.172	1.194	0.042	0.031	0.023		1		1
Inorg. Phosphate	mmol/L	1.639		1.648	0.040	0.032	0.023		2		2
Ammonia	umol/L	225		229	9	10	6		1		1
Urate	umol/L	342	352	350	11	11	7		2		2
Total Protein	g/L	68.3	70.2	68.8	1.5	1.1	1.0		1		1
Albumin	g/L	49.2	49.2	48.7	1.4	1.1	0.9		1		1
CK	U/L	262	255	256	8	4	4		2		2
LD	U/L	464	452	451	28	17	14		2		2
ASAT	U/L	81.9	79.6	81.9	2.9	2.2	1.7		1		1
ALAT	U/L	78.7	76.0	77.8	4.4	1.8	1.8		2		2
Alk. Phosphatase	U/L	222	221	223	9	3	5		2		2
Gamma-GT	U/L	68.6	66.9	69.0	2.5	1.4	1.6		2		2
Bilirubin	umol/L	27.9	28.9	27.6	2.0	0.8	0.8		2		2
Bilirubin direct	umol/L	7.5		7.7	1.3	0.4	0.5		2		2
Amylase	U/L	164	173	164	7	3	3		2		2
Lipase	U/L	33.0		33.9	2.1	0.7	1.3		2		2

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Iron

units : umol/L



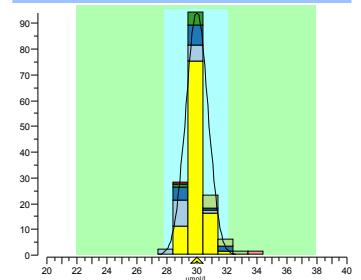
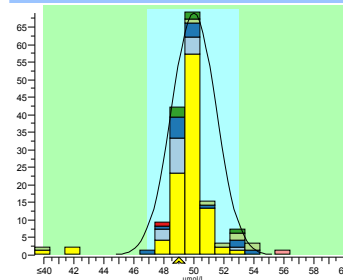
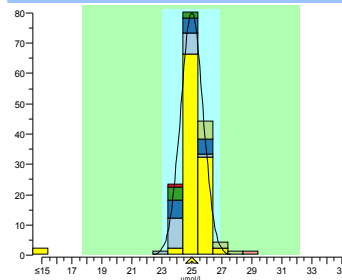
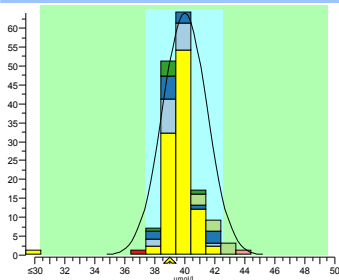
	2023.4	cumulative
Trueness	-0.78%	-0.10%
Precision	1.3%	1.6%
Number	6	24
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	4.6	4.5
Score pictogram		
Regression line	$0.0 + 0.993.x$	$0.0 + 1.000.x$
Consensus group	Colorimetrisch	
Method	Roche	
Analyser	Roche cobas c501, c502	
Your factor	$0 + 1.000.x$	
Method factor	$0 + 1.000.x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ALTM	lab
mean	40.0	39.8	40.0	39
SD	1.5	0.7	1.5	
n	154	103	154	
no	1	1	1	
rec.	98%	98%	98%	

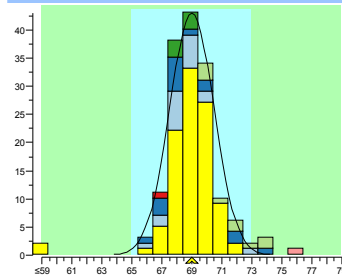
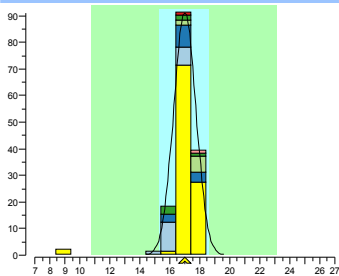
	cons.	meth.	ALTM	lab
mean	25.0	25.3	25.0	25
SD	0.7	0.6	0.7	
n	156	104	156	
no	4	2	4	
rec.	100%	99%	100%	

	cons.	meth.	ALTM	lab
mean	50.0	49.9	50.0	49
SD	1.5	0.8	1.5	
n	154	103	154	
no	5	3	5	
rec.	98%	98%	98%	

	cons.	meth.	ALTM	lab
mean	30.0	30.1	30.0	30
SD	0.7	0.5	0.7	
n	155	103	155	
no	2	0	2	
rec.	100%	100%	100%	

2023.4 E

2023.4 F



	cons.	meth.	ALTM	lab
mean	17.0	17.3	17.0	17
SD	0.7	0.5	0.7	
n	151	101	151	
no	2	2	2	
rec.	100%	98%	100%	

	cons.	meth.	ALTM	lab
mean	69.0	69.2	69.0	69
SD	1.5	1.1	1.5	
n	153	101	153	
no	6	2	6	
rec.	100%	100%	100%	

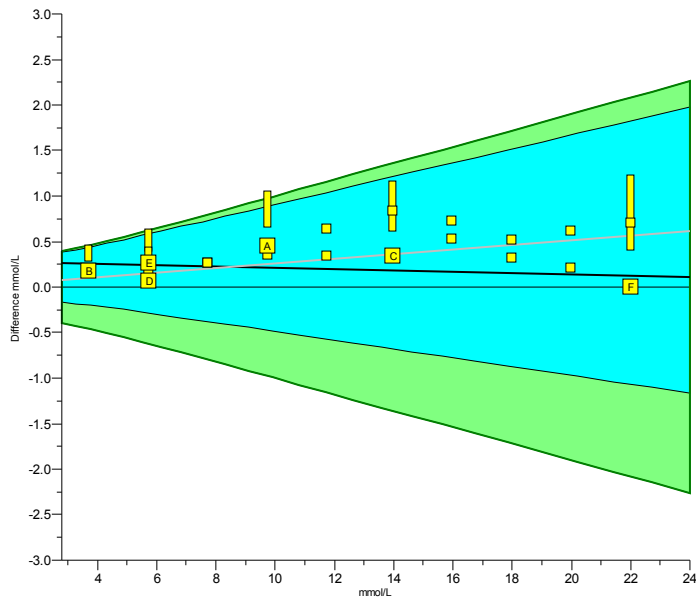
Legend



 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Siemens Advia
 Ortho	 Siemens Dimension			

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Glucose

units : mmol/L



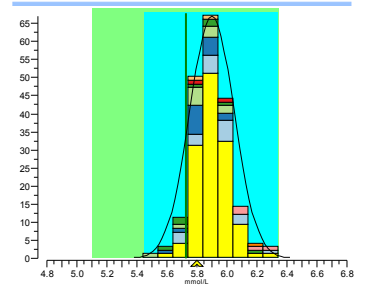
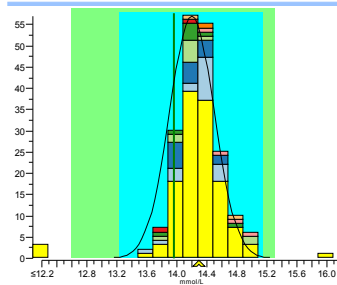
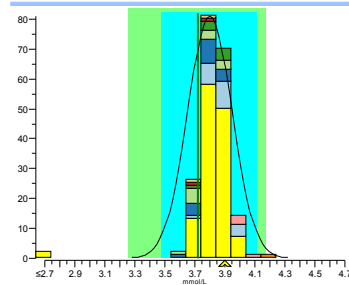
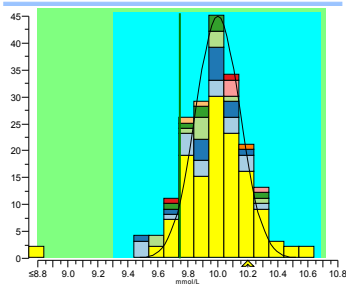
	2023.4	cumulative
Trueness	+2.0%	+2.9%
Precision	1.9%	1.7%
Number	6	24
Outliers	0	0
Sigma-TE	5.4 2	5.1 2
Sigma-SA	3.4	3.2
Score pictogram		
Regression line	$0.28 + 0.993.x$	$0.00 + 1.026.x$
Consensus group	Hexokinase, Glucoseoxidase en Glucosedehydrogena	
Method	Roche	
Analyser	Roche cobas c702	
Your factor	$0.0 + 1.000.x$	
Method factor	$0.0 + 1.001.x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	10.00	10.01	9.75	10.2
SD	0.15	0.18		
n	194	130		
no	10	6		
rec.	102%	102%	105%	

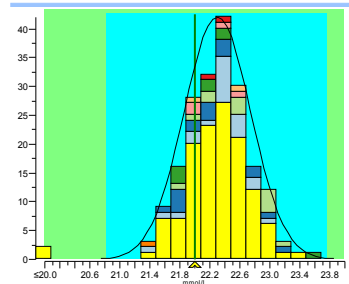
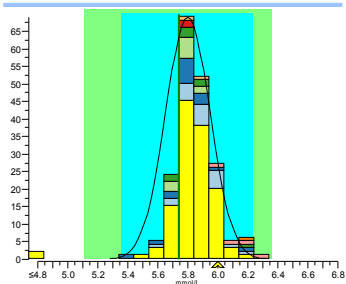
	cons.	meth.	ref.	lab
mean	3.80	3.84	3.72	3.9
SD	0.15	0.07		
n	195	130		
no	2	2		
rec.	103%	102%	105%	

	cons.	meth.	ref.	lab
mean	14.20	14.27	13.96	14.3
SD	0.30	0.26		
n	194	130		
no	4	4		
rec.	101%	100%	102%	

	cons.	meth.	ref.	lab
mean	5.90	5.91	5.73	5.8
SD	0.15	0.11		
n	195	130		
no	0	0		
rec.	98%	98%	101%	

2023.4 E


2023.4 F



	cons.	meth.	ref.	lab
mean	5.80	5.85	5.74	6.0
SD	0.15	0.11		
n	191	128		
no	3	2		
rec.	103%	103%	105%	

	cons.	meth.	ref.	lab
mean	22.30	22.29	22.00	22.0
SD	0.44	0.38		
n	193	128		
no	2	2		
rec.	99%	99%	100%	

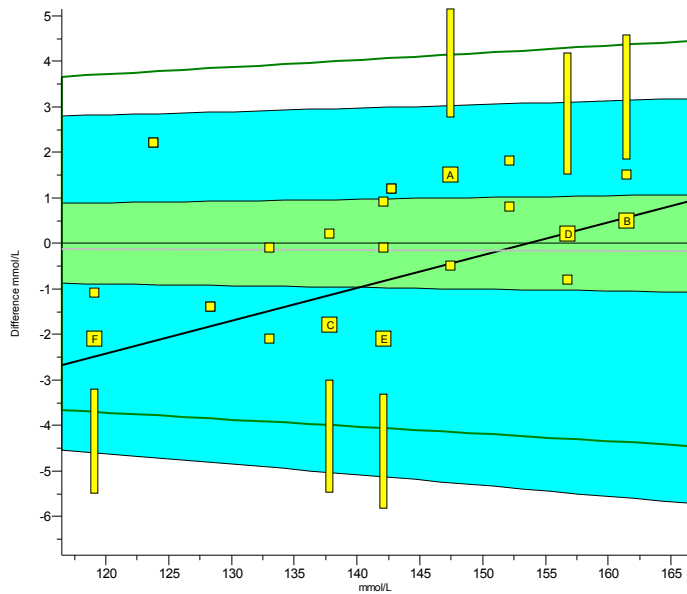
Legend



 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Siemens Advia
 Siemens Dimension	 Beckman Coulter DxC	 Other methods	 Ortho	

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Sodium

units : mmol/L



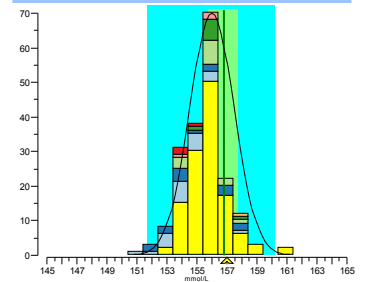
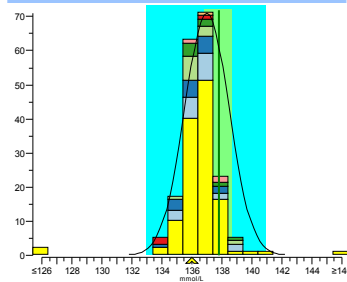
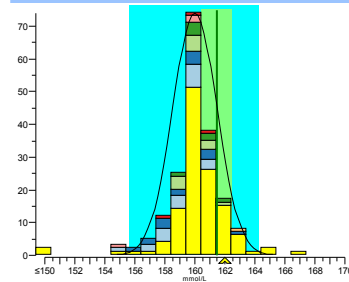
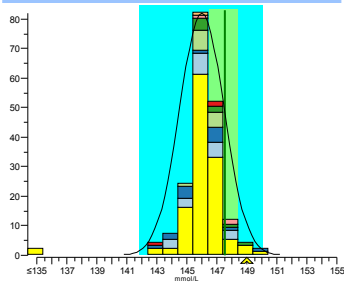
	2023.4	cumulative
Trueness	-0.52%	-0.13%
Precision	0.90%	1.1%
Number	6	24
Outliers	0	0
Sigma-TE	0.4	0.5
Sigma-SA	3.4 1	3.5 1
Score pictogram		
Regression line	$-11.0 + 1.072.x$	$0.0 + 0.999.x$
Consensus group	ISE	
Method	Roche	
Analyser	Roche ISE cobas 8000	
Your factor	$0 + 1.000.x$	
Method factor	$0 + 1.000.x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	146.0	146.2	147.5	149
SD	1.5	1.0		
n	189	125		
no	2	2		
rec.	102%	102%	101%	

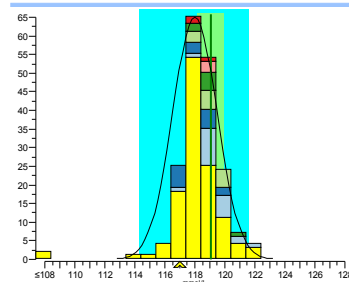
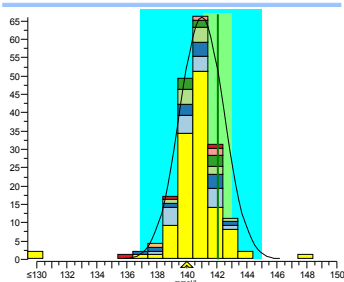
	cons.	meth.	ref.	lab
mean	160.0	160.4	161.5	162
SD	1.5	1.3		
n	190	125		
no	8	6		
rec.	101%	101%	100%	

	cons.	meth.	ref.	lab
mean	137.0	136.7	137.8	136
SD	1.5	1.0		
n	189	125		
no	3	3		
rec.	99%	100%	99%	

	cons.	meth.	ref.	lab
mean	156.0	155.8	156.8	157
SD	1.5	1.2		
n	190	125		
no	3	2		
rec.	101%	101%	100%	

2023.4 E

2023.4 F



	cons.	meth.	ref.	lab
mean	141.0	140.8	142.1	140
SD	1.5	1.1		
n	186	123		
no	4	3		
rec.	99%	99%	99%	

	cons.	meth.	ref.	lab
mean	118.0	118.3	119.1	117
SD	1.5	1.3		
n	187	123		
no	2	2		
rec.	99%	99%	98%	

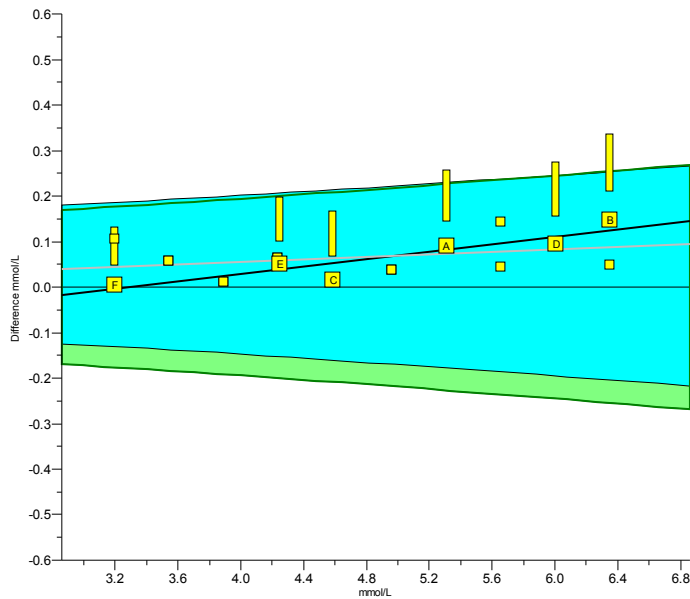
Legend



 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Siemens Advia
 Siemens Dimension	 Beckman Coulter DxC	 Ortho		

Clinical Chemistry, blood 2023.4

Potassium

units : mmol/L



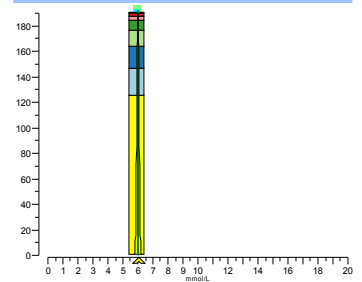
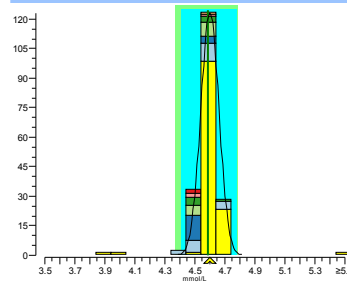
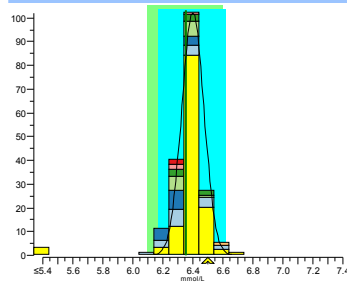
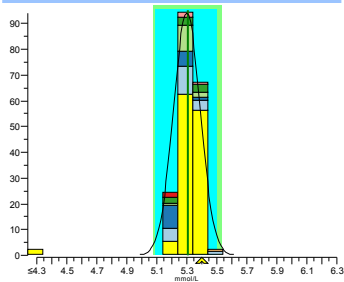
	2023.4	cumulative
Trueness	+1.3%	+1.3%
Precision	0.56%	0.88%
Number	6	24
Outliers	0	0
Sigma-TE	4.5 2	4.5 2
Sigma-SA	4.0	4.0
Score pictogram		
Regression line	$-0.13 + 1.041.x$	$0.00 + 1.014.x$
Consensus group	ISE	
Method	Roche	
Analyser	Roche ISE cobas 8000	
Your factor	$0.0 + 1.000.x$	
Method factor	$0.1 + 1.000.x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	5.30	5.34	5.310	5.4
SD	0.09	0.06		
n	189	125		
no	2	2		
rec.	102%	101%	102%	

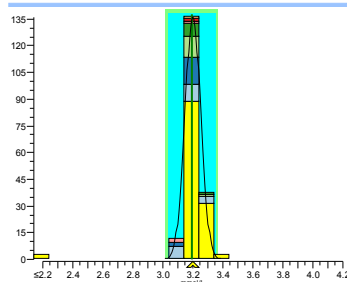
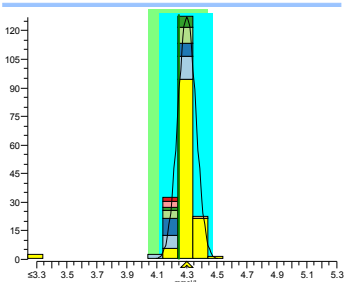
	cons.	meth.	ref.	lab
mean	6.40	6.40	6.352	6.5
SD	0.07	0.07		
n	190	125		
no	5	4		
rec.	102%	101%	102%	

	cons.	meth.	ref.	lab
mean	4.60	4.62	4.584	4.6
SD	0.06	0.04		
n	189	125		
no	3	3		
rec.	100%	100%	100%	

	cons.	meth.	ref.	lab
mean	6.00	6.05	6.005	6.1
SD	0.07	0.06		
n	190	125		
no	1	0		
rec.	102%	101%	102%	

2023.4 E

2023.4 F



	cons.	meth.	ref.	lab
mean	4.30	4.32	4.249	4.3
SD	0.06	0.05		
n	186	123		
no	2	2		
rec.	100%	100%	101%	

	cons.	meth.	ref.	lab
mean	3.20	3.23	3.195	3.2
SD	0.05	0.05		
n	188	123		
no	2	2		
rec.	100%	99%	100%	

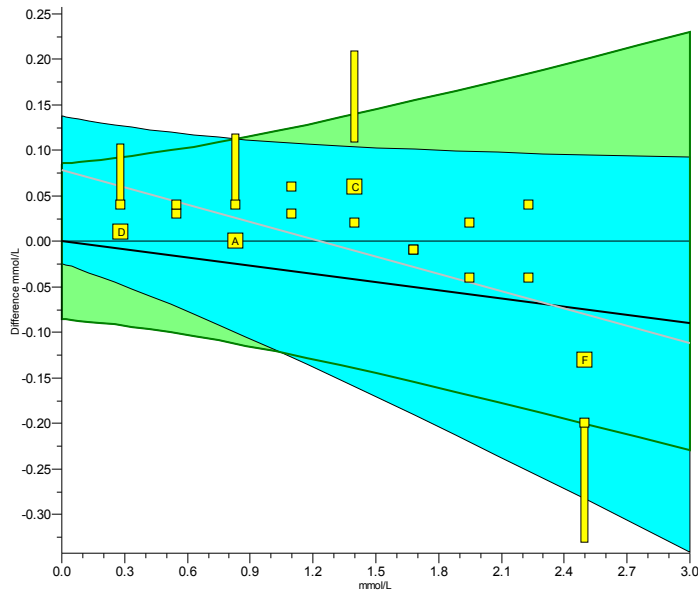
Legend



 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Siemens Advia
 Siemens Dimension	 Beckman Coulter DxC	 Ortho		

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Lithium

units : mmol/L



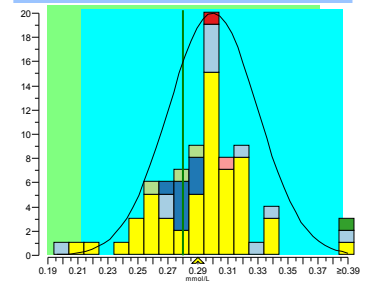
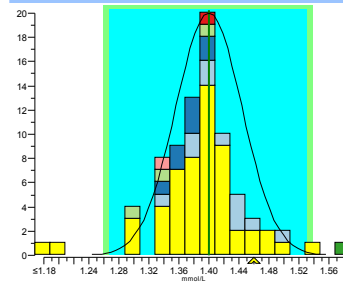
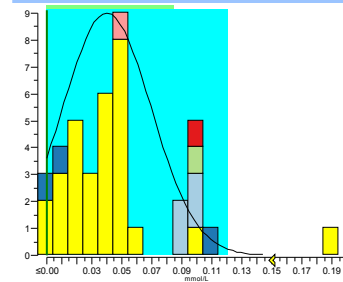
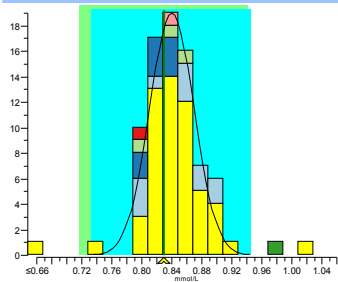
	2023.4	cumulative
Trueness	-1.6%	-0.73%
Precision	3.1%	3.1%
Number	4	18
Outliers	0	0
Sigma-TE	3.3 1	3.3 1
Sigma-SA	3.1	3.1
Score pictogram		
Regression line	<u>0.000 + 0.970.x</u>	<u>0.079 + 0.937.x</u>
Consensus group	Colorimetrie en ISE	
Method	Roche	
Analyser	Roche cobas c501, c502	
Your factor	0.00 + 1.000.x	
Method factor	0.00 + 1.001.x	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	0.840	0.843	0.83	0.83
SD	0.030	0.029		
n	79	55		
no	4	3		
rec.	99%	98%	100%	

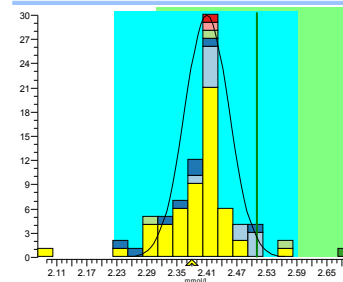
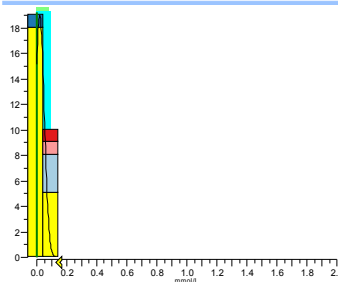
	cons.	meth.	ref.	lab
mean	0.040	0.034	0.00	<0.15
SD	0.030	0.023		
n	39	30		
no	1	1		
rec.				

	cons.	meth.	ref.	lab
mean	1.400	1.393	1.40	1.46
SD	0.044	0.045		
n	79	55		
no	3	2		
rec.	104%	105%	104%	

	cons.	meth.	ref.	lab
mean	0.300	0.294	0.28	0.29
SD	0.030	0.026		
n	79	55		
no	5	2		
rec.	97%	99%	104%	

2023.4 E

2023.4 F



	cons.	meth.	ref.	lab
mean	0.020	0.030	0	<0.15
SD	0.030	0.027		
n	28	23		
no	1	0		
rec.				

	cons.	meth.	ref.	lab
mean	2.40	2.38	2.50	2.37
SD	0.04	0.04		
n	79	55		
no	6	3		
rec.	99%	99%	95%	

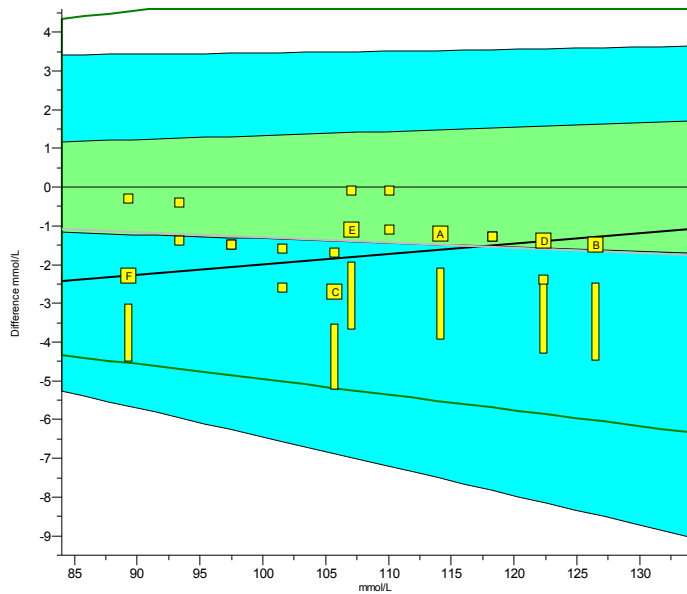
Legend



 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Ortho
 Other methods	 Beckman Coulter DxC			

Clinical Chemistry, blood 2023.4

Chloride

units : mmol/L



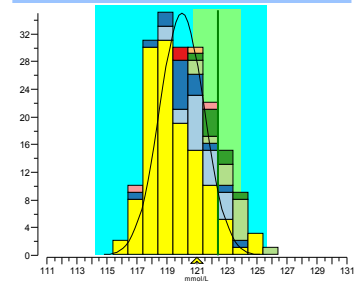
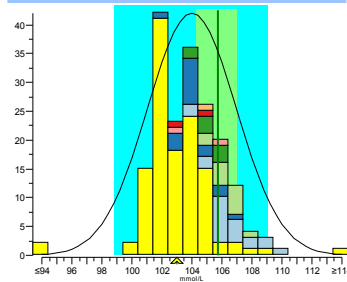
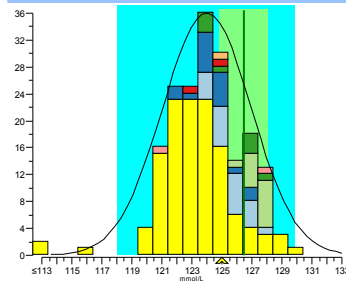
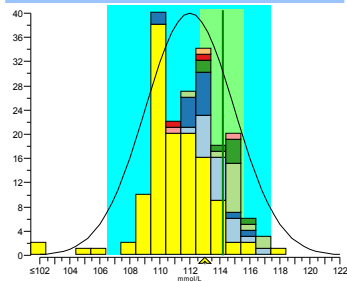
	2023.4	cumulative
Trueness	-1.6%	-1.3%
Precision	0.44%	0.66%
Number	6	24
Outliers	0	0
Sigma-TE	0.4	0.9
Sigma-SA	5.9 2	6.0 2
Score pictogram		
Regression line	$-4.7 + 1.027 \cdot x$	$0.0 + 0.987 \cdot x$
Consensus group	ISE	
Method	Roche	
Analyser	Roche ISE cobas 8000	
Your factor	$2 + 1.000 \cdot x$	
Method factor	$1 + 1.004 \cdot x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	112.0	111.2	114.2	113
SD	3.0	1.9		
n	187	124		
no	2	2		
rec.	101%	102%	99%	

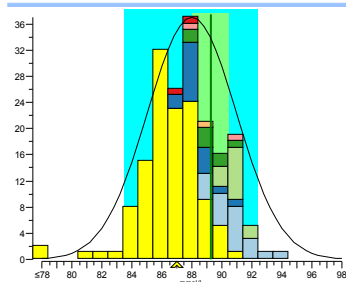
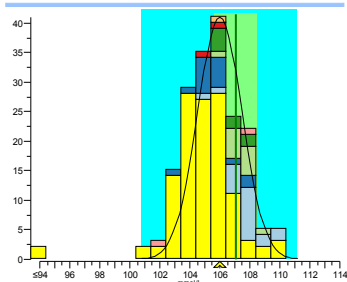
	cons.	meth.	ref.	lab
mean	124.0	123.5	126.5	125
SD	3.0	2.2		
n	188	124		
no	2	2		
rec.	101%	101%	99%	

	cons.	meth.	ref.	lab
mean	104.0	103.0	105.7	103
SD	3.0	1.6		
n	187	124		
no	3	3		
rec.	99%	100%	97%	

	cons.	meth.	ref.	lab
mean	120.0	119.4	122.4	121
SD	1.5	1.7		
n	188	124		
no	4	3		
rec.	101%	101%	99%	

2023.4 E



2023.4 F



	cons.	meth.	ref.	lab
mean	106.0	105.2	107.1	106
SD	1.5	1.6		
n	183	122		
no	4	4		
rec.	100%	101%	99%	

	cons.	meth.	ref.	lab
mean	88.0	86.7	89.3	87
SD	3.0	1.7		
n	186	122		
no	2	2		
rec.	99%	100%	97%	

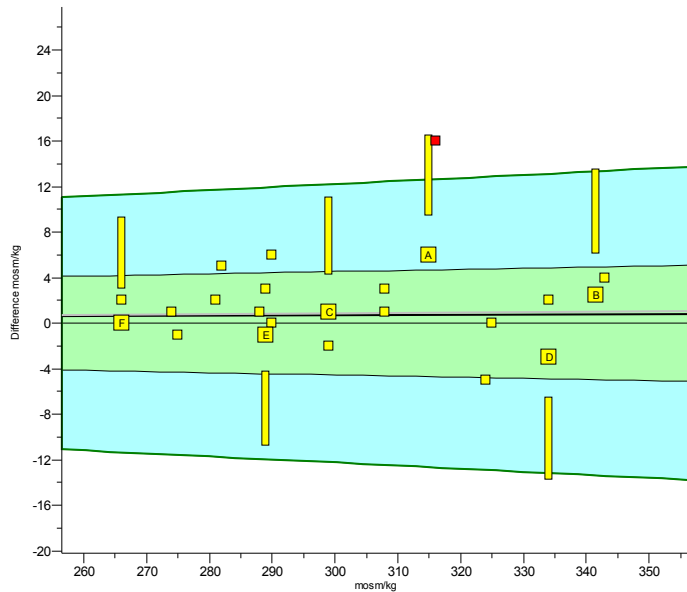
Legend

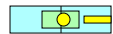
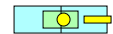
 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Siemens Advia
 Siemens Dimension	 Beckman Coulter DxC	 Ortho		

Clinical Chemistry, blood 2023.4

Osmolality

units : mosm/kg



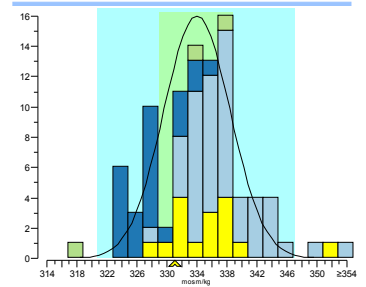
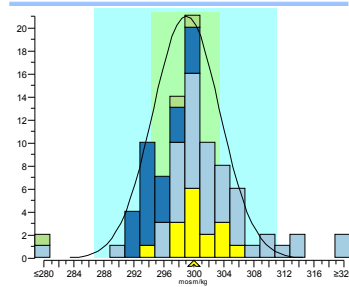
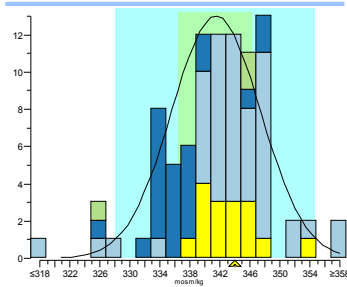
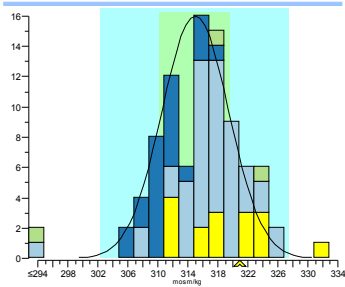
	2023.4	cumulative
Trueness	+0.23%	+0.30%
Precision	1.0%	0.93%
Number	6	24
Outliers	0	1
Sigma-TE	1.7	1.4
Sigma-SA	4.5 2	4.3 1
Score pictogram		
Regression line	$0.0 + 1.002.x$	$0.0 + 1.003.x$
Consensus group	Vriespuntsverlaging	
Method	Advance Instruments	
Analyser	Advanced Instr.Micro-osmometer	
Your factor	$0 + 1.000.x$	
Method factor	$0 + 1.000.x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ALTM	lab
mean	315.0	317.5	315.0	321
SD	4.4	4.7	4.4	
n	86	16	89	
no	2	1	3	
rec.	102%	101%	102%	

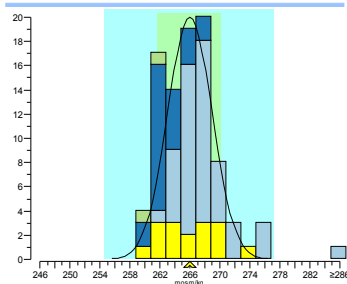
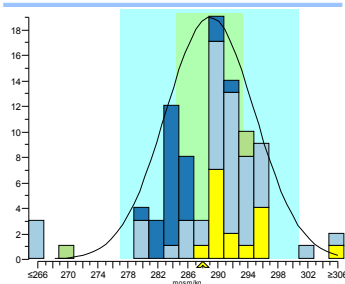
	cons.	meth.	ALTM	lab
mean	341.5	343.0	342.0	344
SD	5.9	3.9	5.9	
n	88	16	91	
no	2	0	2	
rec.	101%	100%	101%	

	cons.	meth.	ALTM	lab
mean	299.0	300.4	299.0	300
SD	4.4	2.9	4.4	
n	88	16	91	
no	5	0	6	
rec.	100%	100%	100%	

	cons.	meth.	ALTM	lab
mean	334.0	334.2	334.0	331
SD	4.4	3.4	4.4	
n	89	16	92	
no	3	1	4	
rec.	99%	99%	99%	

2023.4 E

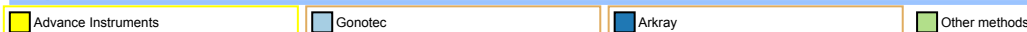
2023.4 F



	cons.	meth.	ALTM	lab
mean	289.0	291.5	289.0	288
SD	5.9	2.7	5.9	
n	86	16	89	
no	5	1	6	
rec.	100%	99%	100%	

	cons.	meth.	ALTM	lab
mean	266.0	265.8	266.0	266
SD	3.0	3.6	3.0	
n	88	16	90	
no	4	0	4	
rec.	100%	100%	100%	

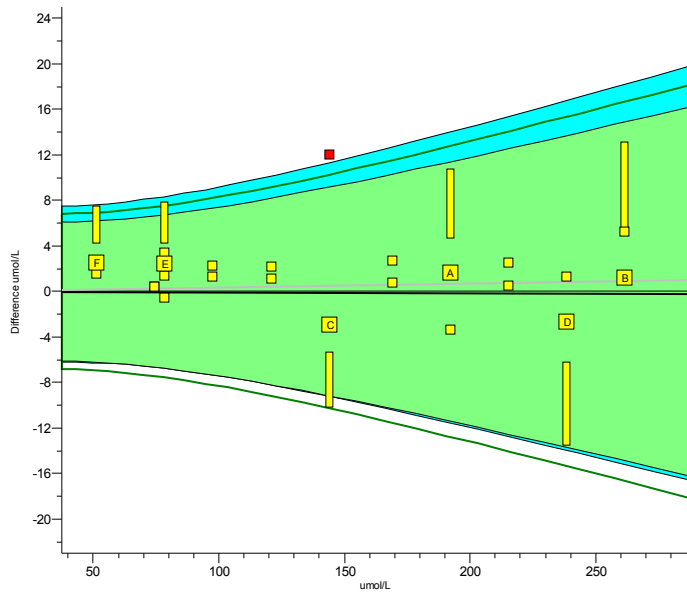
Legend





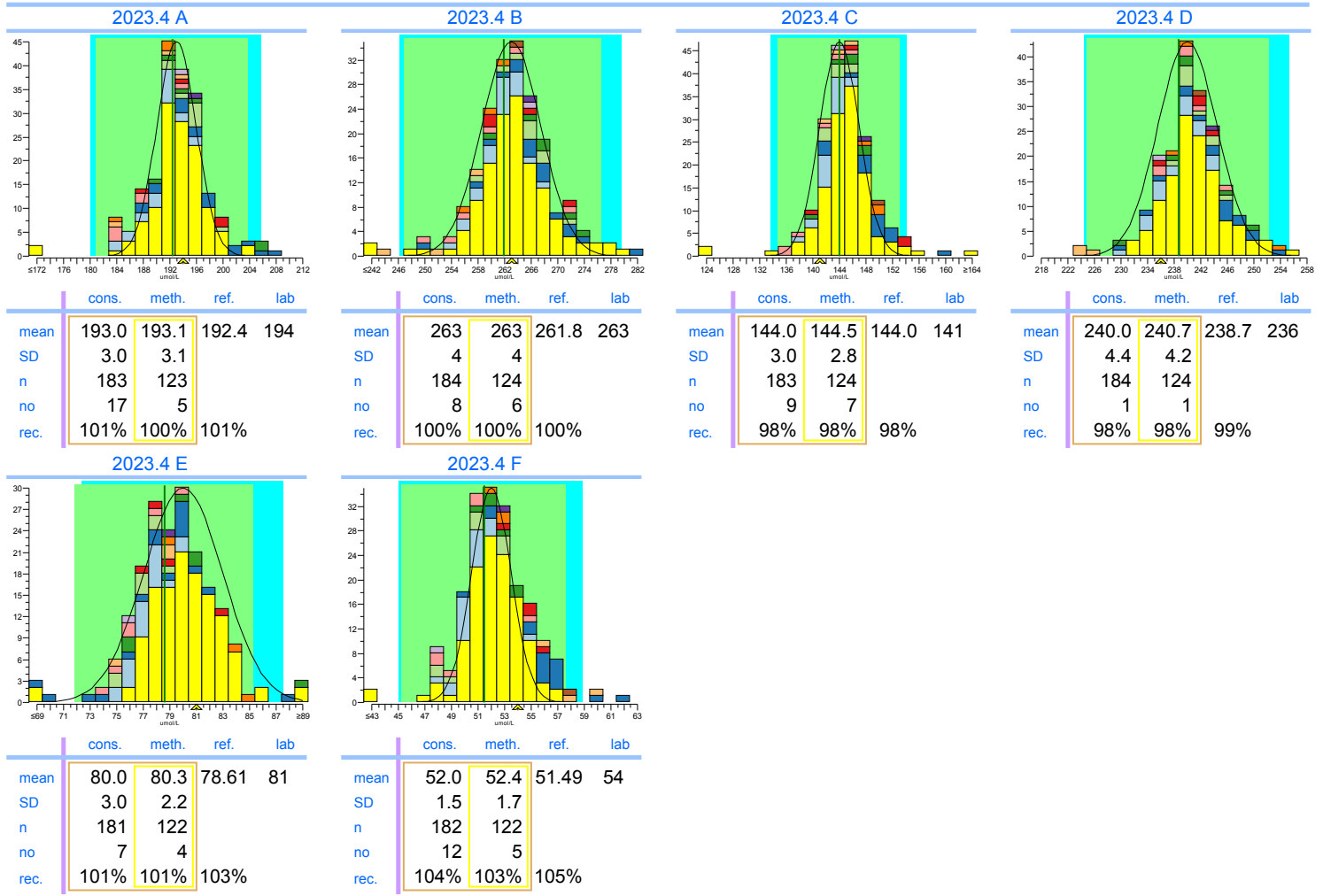
Clinical Chemistry, blood 2023.4

Creatinine













units : umol/L



	2023.4	cumulative
Trueness	+0.25%	+0.59%
Precision	1.5%	1.4%
Number	6	24
Outliers	0	1
Sigma-TE	4.5	4.2
Sigma-SA	5.1 2	4.8 2
Score pictogram		
Regression line	$0.0 + 0.999.x$	$0.0 + 1.003.x$
Consensus group	Enzymatisch	
Method	Roche enzymatic	
Analyser	Roche cobas c702	
Your factor	$-2 + 0.970.x$	
Method factor	$0 + 0.999.x$	



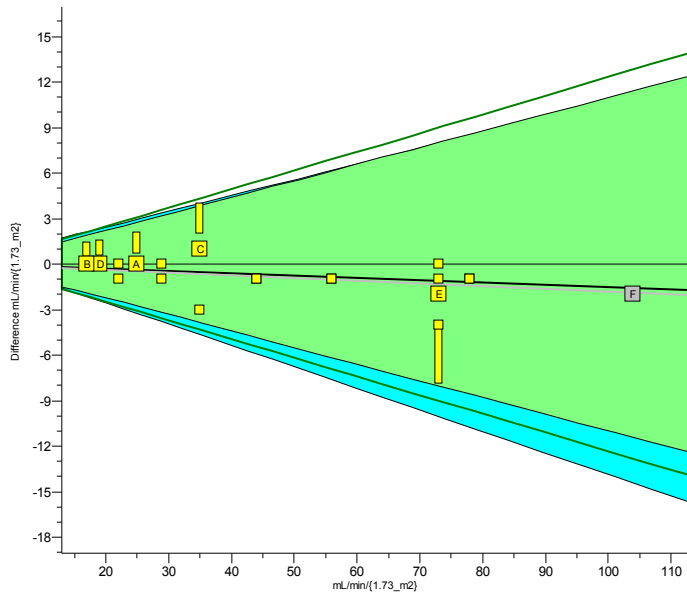
Legend



				
				
				

Clinical Chemistry, blood 2023.4

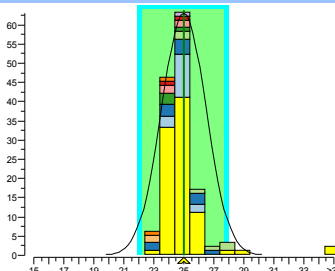
eGFR (F, 55, white)

units : mL/min/{1.73_m2}



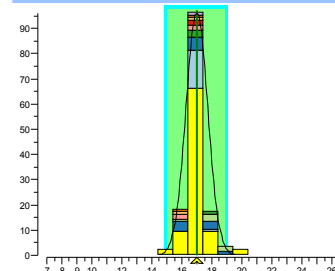
	2023.4	cumulative
Trueness	-0.71%	-1.6%
Precision	2.0%	2.2%
Number	5	22
Outliers	0	0
Sigma-TE	4.4	4.9
Sigma-SA	4.9 2	5.5 2
Score pictogram		
Regression line	<u>0.0 + 0.985.x</u>	<u>0.0 + 0.982.x</u>
Consensus group	CKD-EPI	
Method	Roche CKD-EPI	
Analyser	Roche cobas c702	
Your factor	0 + 1.000.x	
Method factor	0 + 1.000.x	

2023.4 A



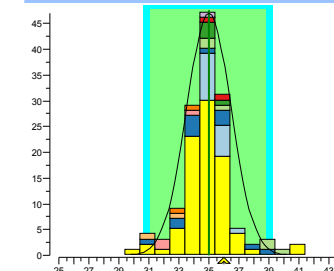
	cons.	meth.	ref.	lab
mean	25.0	24.8	25	25
SD	1.5	0.9		
n	135	90		
no	2	2		
rec.	100%	101%	100%	

2023.4 B



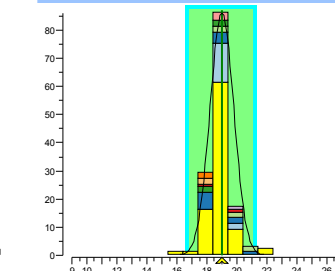
	cons.	meth.	ref.	lab
mean	17.0	17.0	17	17
SD	0.7	0.7		
n	135	90		
no	2	2		
rec.	100%	100%	100%	

2023.4 C



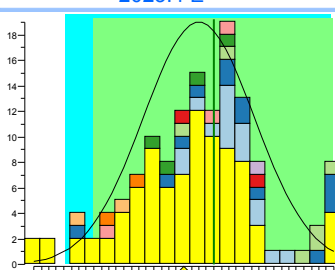
	cons.	meth.	ref.	lab
mean	35.0	34.8	35	36
SD	1.5	1.2		
n	134	90		
no	6	5		
rec.	103%	103%	103%	

2023.4 D



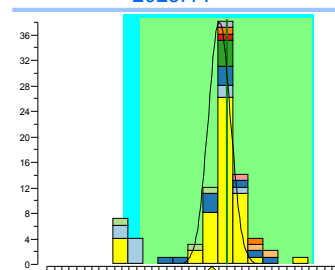
	cons.	meth.	ref.	lab
mean	19.0	18.9	19	19
SD	0.8	0.8		
n	135	90		
no	1	0		
rec.	100%	100%	100%	

2023.4 E



	cons.	meth.	ref.	lab
mean	72.0	70.8	73	71
SD	3.7	3.8		
n	132	88		
no	4	3		
rec.	99%	100%	97%	

2023.4 F



	cons.	meth.	ref.	lab
mean	103.0	103.5	104	102
SD	1.5	1.6		
n	84	55		
no	21	7		
rec.	99%	99%	98%	

Excluded

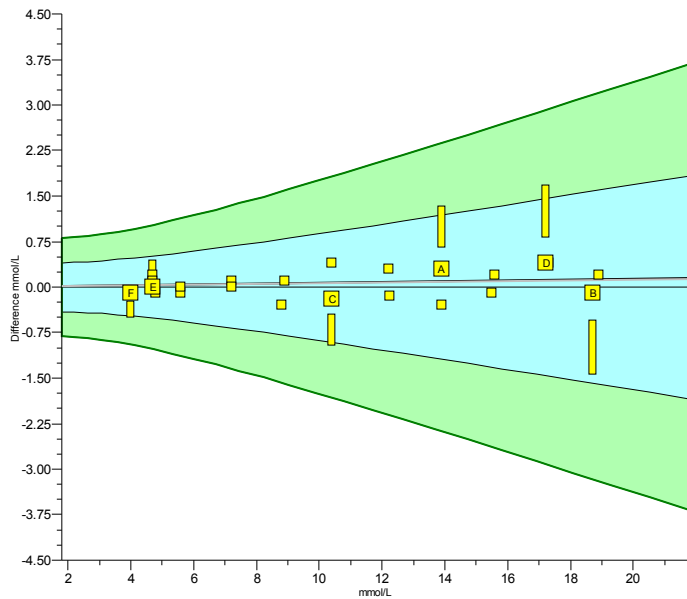
Legend


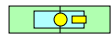
 Roche CKD-EPI	 Siemens Atellica CKD-EPI	 Beckman Coulter AU CKD-EPI	 Siemens Advia 1800 CKD-EPI	 Overigen CKD-EPI
 Abbott CKD-EPI	 Siemens Dimension CKD-EPI	 Overigen MDRD	 Abbott MDRD	 Beckman Coulter DxC MDRD

Clinical Chemistry, blood 2023.4

Urea

units : mmol/L



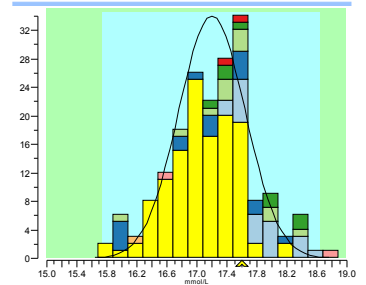
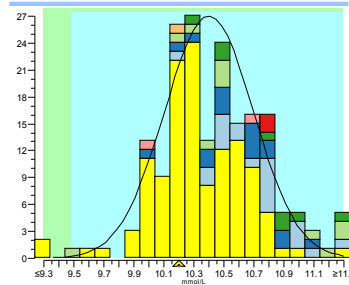
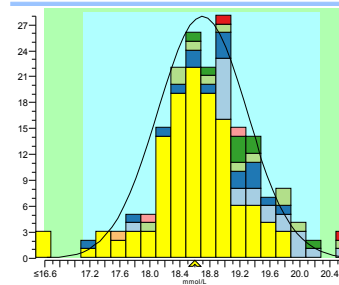
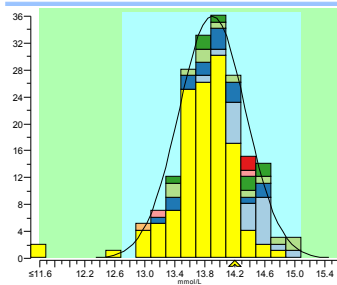
	2023.4	cumulative
Trueness	+0.40%	+0.39%
Precision	2.0%	2.0%
Number	6	24
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	4.7	4.3
Score pictogram		
Regression line	$0.00 + 1.007 \cdot x$	$0.00 + 1.006 \cdot x$
Consensus group	Urease-GDLH en geleidbaarheid	
Method	Roche	
Analyser	Roche cobas c702	
Your factor	$0.0 + 1.000 \cdot x$	
Method factor	$0.0 + 1.000 \cdot x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ALTM	lab
mean	13.90	13.79	13.90	14.2
SD	0.44	0.34	0.44	
n	186	124	186	
no	3	3	3	
rec.	102%	103%	102%	

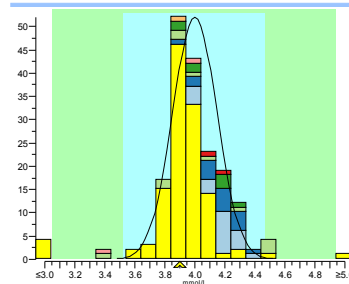
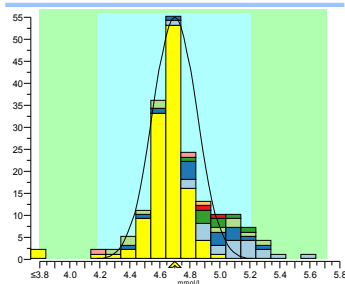
	cons.	meth.	ALTM	lab
mean	18.7	18.6	18.7	18.6
SD	0.6	0.5	0.6	
n	187	124	187	
no	6	3	6	
rec.	99%	100%	99%	

	cons.	meth.	ALTM	lab
mean	10.40	10.34	10.40	10.2
SD	0.30	0.26	0.30	
n	186	124	186	
no	8	3	8	
rec.	98%	99%	98%	

	cons.	meth.	ALTM	lab
mean	17.20	17.04	17.20	17.6
SD	0.44	0.42	0.44	
n	187	124	187	
no	3	2	3	
rec.	102%	103%	102%	

2023.4 E

2023.4 F



	cons.	meth.	ALTM	lab
mean	4.70	4.67	4.70	4.7
SD	0.15	0.11	0.15	
n	183	122	183	
no	17	3	17	
rec.	100%	101%	100%	

	cons.	meth.	ALTM	lab
mean	4.00	3.94	4.00	3.9
SD	0.15	0.12	0.15	
n	184	122	184	
no	11	6	11	
rec.	97%	99%	97%	

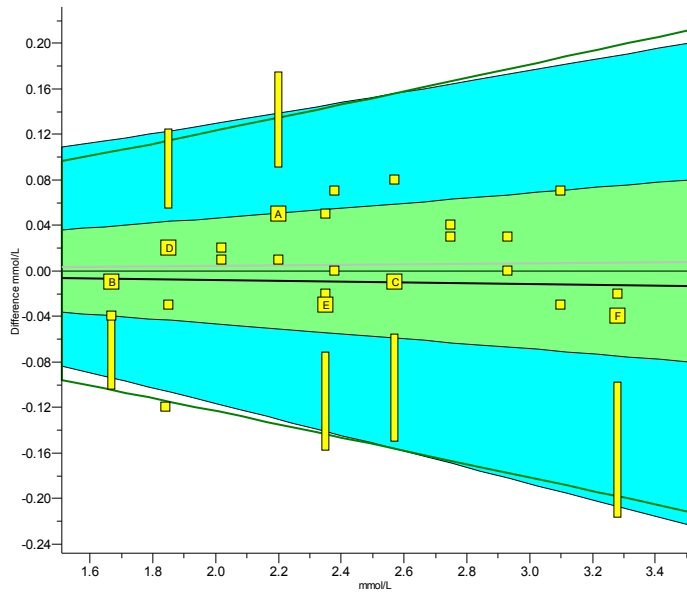
Legend

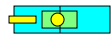
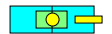
 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Siemens Advia
 Siemens Dimension	 Beckman Coulter DxC	 Ortho		

Clinical Chemistry, blood 2023.4

Calcium

units : mmol/L



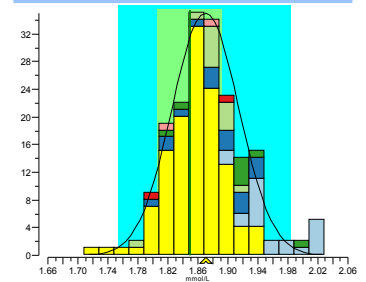
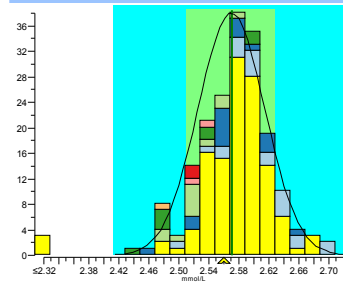
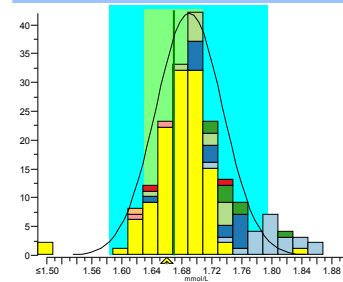
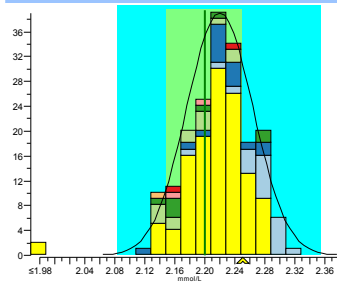
	2023.4	cumulative
Trueness	-0.24%	+0.19%
Precision	1.0%	1.5%
Number	6	25
Outliers	0	0
Sigma-TE	1.6	1.4
Sigma-SA	4.1 1	3.9 1
Score pictogram		
Regression line	$0.000 + 0.996 \cdot x$	$0.000 + 1.002 \cdot x$
Consensus group	Colorimetrie en ISE	
Method	Roche	
Analyser	Roche cobas c702	
Your factor	$0.00 + 1.000 \cdot x$	
Method factor	$0.01 + 0.999 \cdot x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	2.220	2.214	2.20	2.25
SD	0.044	0.034		
n	187	124		
no	2	2		
rec.	101%	102%	102%	

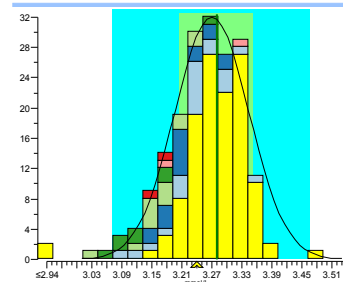
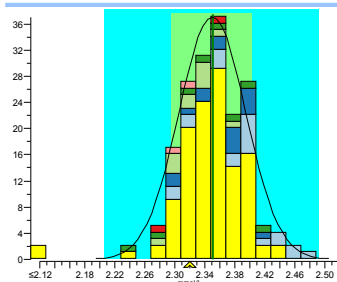
	cons.	meth.	ref.	lab
mean	1.690	1.676	1.67	1.66
SD	0.044	0.028		
n	186	122		
no	7	3		
rec.	98%	99%	99%	

	cons.	meth.	ref.	lab
mean	2.570	2.578	2.57	2.56
SD	0.044	0.036		
n	187	124		
no	4	3		
rec.	100%	99%	100%	

	cons.	meth.	ref.	lab
mean	1.870	1.854	1.85	1.87
SD	0.044	0.035		
n	187	124		
no	6	1		
rec.	100%	101%	101%	

2023.4 E

2023.4 F



	cons.	meth.	ref.	lab
mean	2.350	2.348	2.35	2.32
SD	0.044	0.034		
n	182	121		
no	2	2		
rec.	99%	99%	99%	

	cons.	meth.	ref.	lab
mean	3.270	3.289	3.28	3.24
SD	0.074	0.050		
n	185	122		
no	3	2		
rec.	99%	99%	99%	

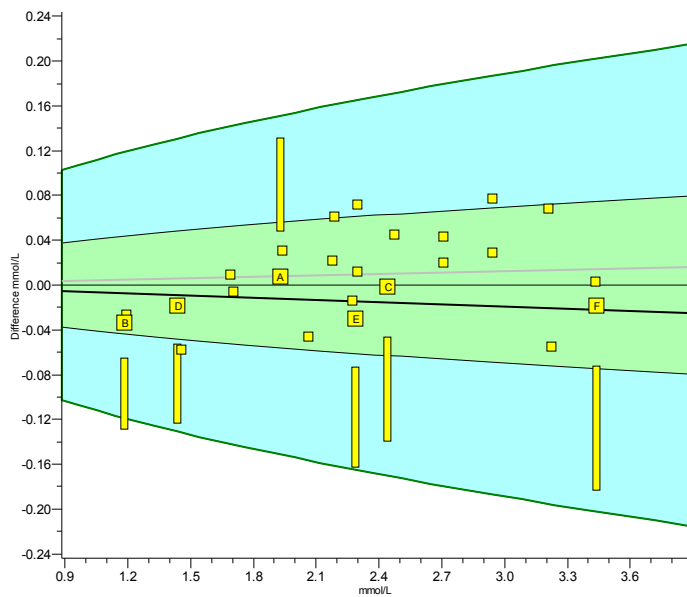
Legend


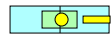
 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Siemens Advia
 Siemens Dimension	 Beckman Coulter DxC	 Ortho		

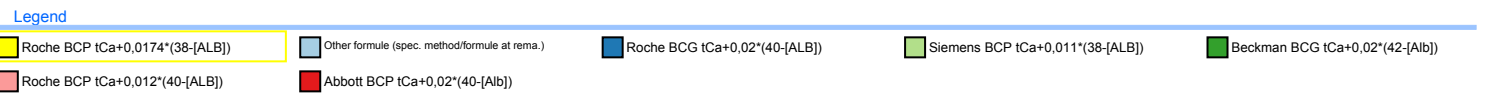
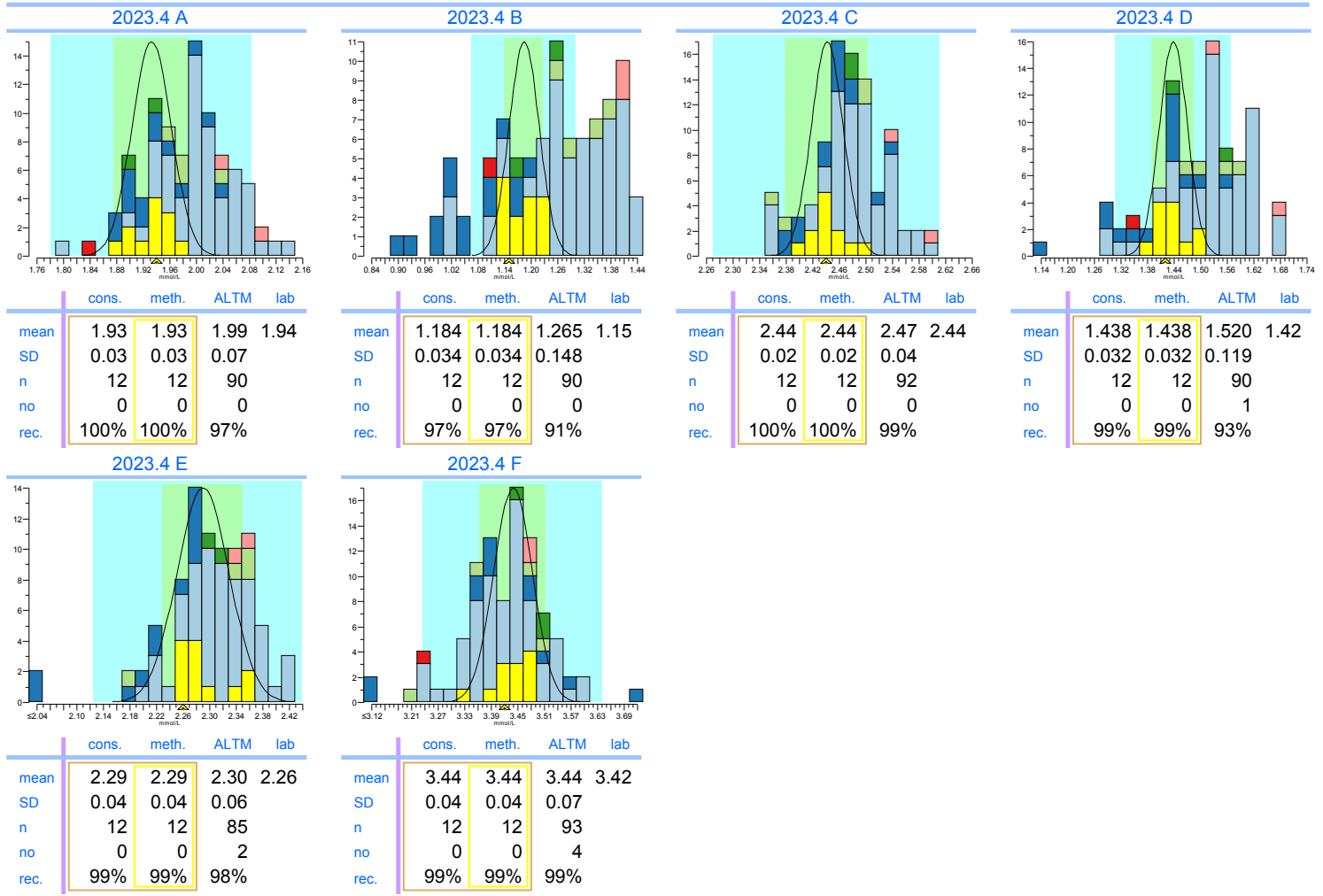
Clinical Chemistry, blood 2023.4

Corrected Calcium

units : mmol/L



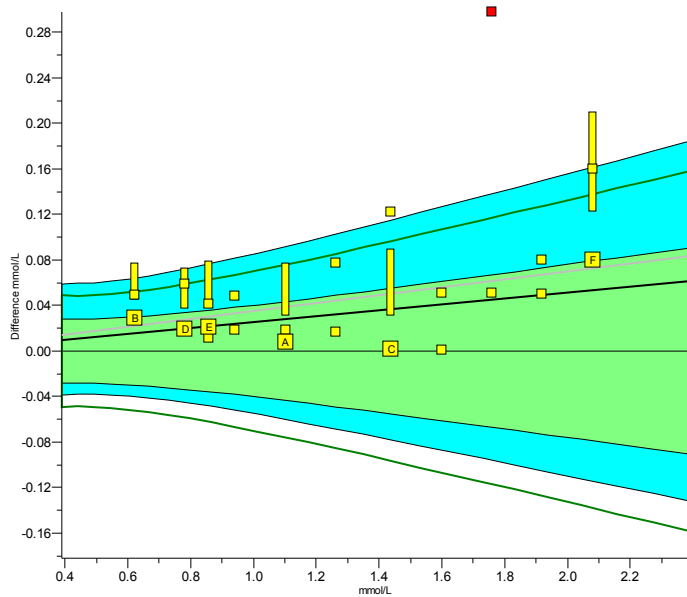
	2023.4	cumulative
Trueness	-0.77%	+0.29%
Precision	0.80%	1.6%
Number	6	25
Outliers	0	0
Sigma-TE	1.9	1.6
Sigma-SA	4.6	4.4
Score pictogram		
Regression line	$0.00 + 0.994.x$	$0.00 + 1.004.x$
Consensus group	Roche BCP tCa+0,0174*(38-[ALB])	
Method	Roche BCP tCa+0,0174*(38-[ALB])	
Analyser	Roche cobas c702	
Your factor	$0.00 + 1.000.x$	
Method factor	$0.00 + 1.000.x$	





Clinical Chemistry, blood 2023.4

Magnesium

units : mmol/L



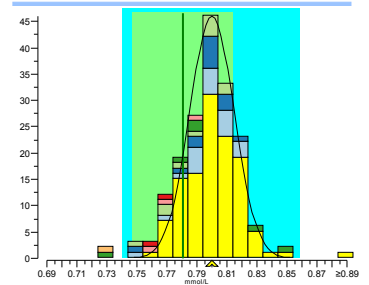
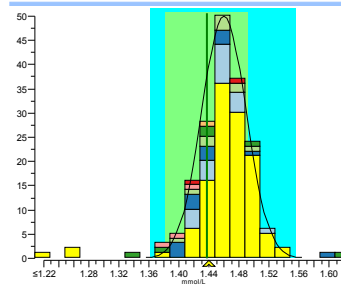
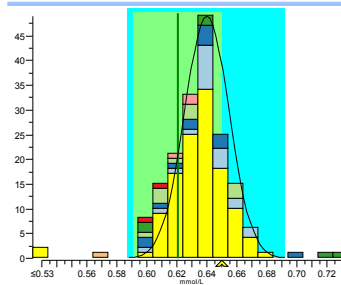
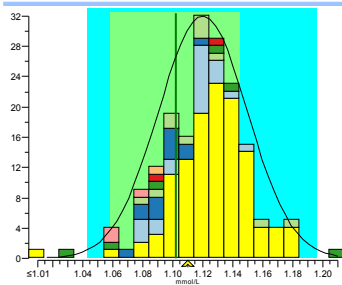
	2023.4	cumulative
Trueness	+2.4%	+3.3%
Precision	1.7%	2.4%
Number	6	24
Outliers	0	1
Sigma-TE	1.8	0.9
Sigma-SA	3.6 1	2.5 1
Score pictogram		
Regression line	<u>0.000 + 1.026.x</u>	<u>0.000 + 1.035.x</u>
Consensus group	Colorimetrisch	
Method	Roche	
Analyser	Roche cobas c702	
Your factor	0.00 + 1.000.x	
Method factor	0.00 + 1.001.x	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	1.120	1.129	1.102	1.11
SD	0.030	0.022		
n	177	120		
no	3	1		
rec.	99%	98%	101%	

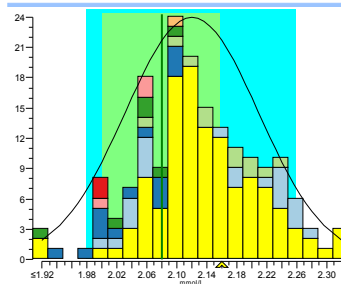
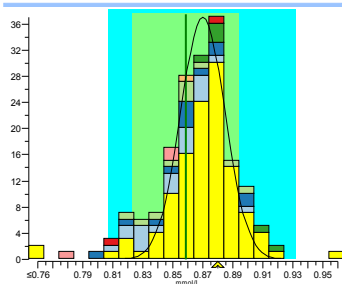
	cons.	meth.	ref.	lab
mean	0.640	0.637	0.621	0.65
SD	0.015	0.016		
n	179	121		
no	6	2		
rec.	102%	102%	105%	

	cons.	meth.	ref.	lab
mean	1.460	1.467	1.438	1.44
SD	0.030	0.025		
n	177	120		
no	9	4		
rec.	99%	98%	100%	

	cons.	meth.	ref.	lab
mean	0.800	0.801	0.781	0.80
SD	0.015	0.016		
n	178	120		
no	8	2		
rec.	100%	100%	102%	

2023.4 E


2023.4 F



	cons.	meth.	ref.	lab
mean	0.870	0.874	0.859	0.88
SD	0.015	0.017		
n	174	118		
no	17	8		
rec.	101%	101%	102%	

	cons.	meth.	ref.	lab
mean	2.120	2.138	2.080	2.16
SD	0.089	0.060		
n	176	118		
no	5	5		
rec.	102%	101%	104%	

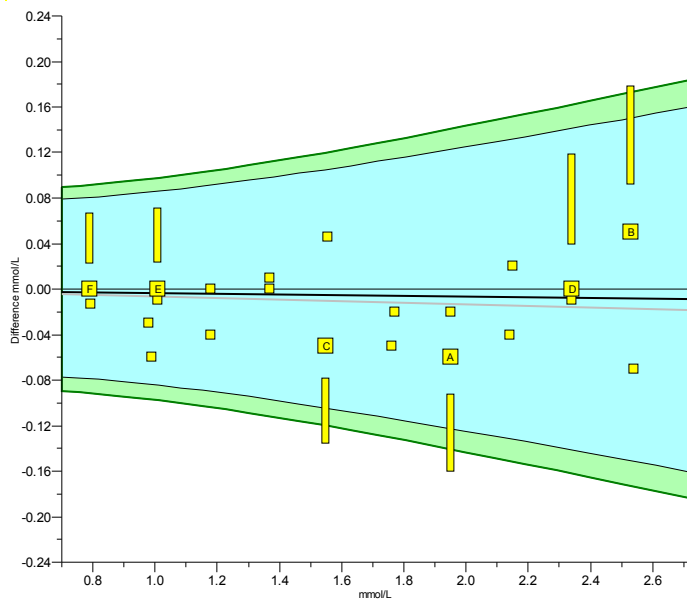
Legend



 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Siemens Advia
 Beckman Coulter DxC	 Siemens Dimension	 Ortho		

Clinical Chemistry, blood 2023.4

Inorg. Phosphate

units : mmol/L



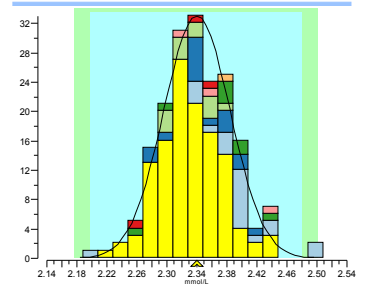
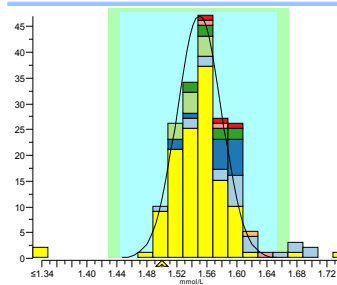
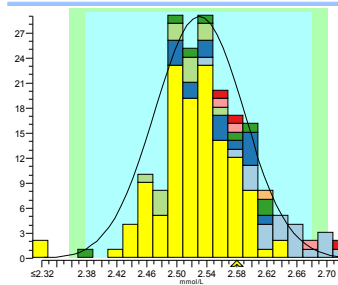
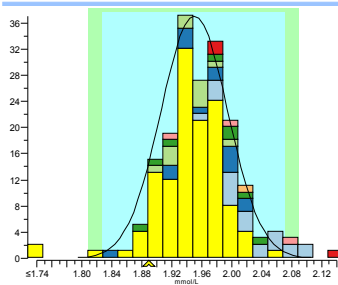
	2023.4	cumulative
Trueness	-0.55%	-0.81%
Precision	2.4%	2.0%
Number	6	24
Outliers	0	0
Sigma-TE	4.9 2	4.9 2
Sigma-SA	4.3	4.2
Score pictogram		
Regression line	$0.000 + 0.997 \cdot x$	$0.000 + 0.993 \cdot x$
Consensus group	Zonder en met reductie	
Method	Roche	
Analyser	Roche cobas c702	
Your factor	$0.00 + 1.000 \cdot x$	
Method factor	$0.00 + 1.001 \cdot x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ALTM	lab
mean	1.950	1.944	1.950	1.89
SD	0.044	0.037	0.044	
n	186	123	186	
no	5	2	5	
rec.	97%	97%	97%	

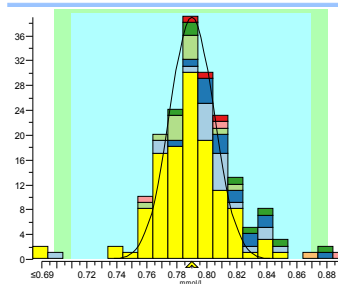
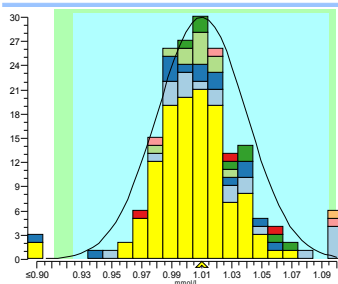
	cons.	meth.	ALTM	lab
mean	2.530	2.524	2.530	2.58
SD	0.059	0.044	0.059	
n	186	123	186	
no	4	2	4	
rec.	102%	102%	102%	

	cons.	meth.	ALTM	lab
mean	1.550	1.545	1.550	1.50
SD	0.030	0.028	0.030	
n	186	123	186	
no	10	4	10	
rec.	97%	97%	97%	

	cons.	meth.	ALTM	lab
mean	2.340	2.328	2.340	2.34
SD	0.044	0.042	0.044	
n	187	123	187	
no	3	0	3	
rec.	100%	101%	100%	

2023.4 E

2023.4 F



	cons.	meth.	ALTM	lab
mean	1.010	1.006	1.010	1.01
SD	0.030	0.022	0.030	
n	182	120	182	
no	9	2	9	
rec.	100%	100%	100%	

	cons.	meth.	ALTM	lab
mean	0.790	0.789	0.790	0.79
SD	0.015	0.017	0.015	
n	185	121	185	
no	20	8	20	
rec.	100%	100%	100%	

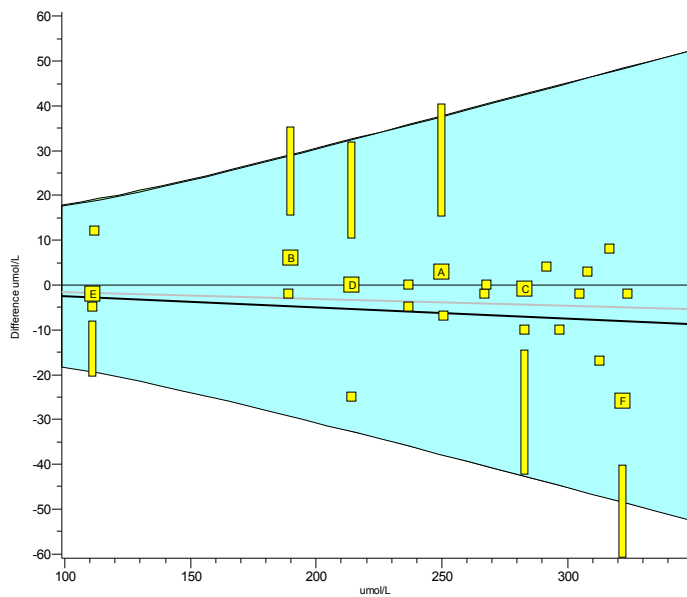
Legend



 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Siemens Advia
 Siemens Dimension	 Beckman Coulter DxC	 Ortho		

Clinical Chemistry, blood 2023.4

Ammonia

units : umol/L



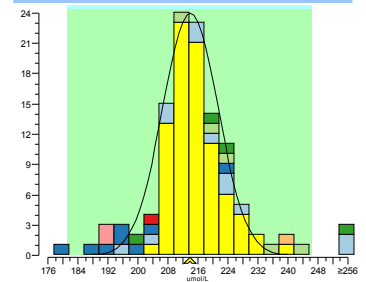
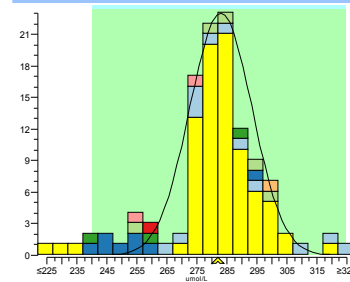
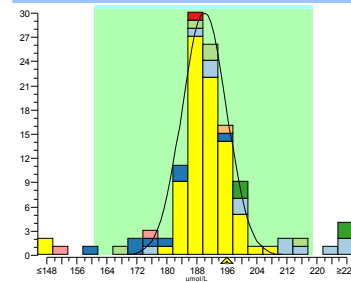
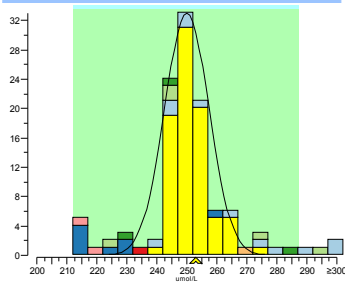
	2023.4	cumulative
Trueness	-1.8%	-1.3%
Precision	4.9%	4.0%
Number	6	24
Outliers	0	0
Sigma-TE	3.8	3.9
Sigma-SA	3.8 ■	3.9 ■
Score pictogram		
Regression line	$0 + 0.975 \cdot x$	$0 + 0.985 \cdot x$
Consensus group	Enzymatisch	
Method	Roche	
Analyser	Roche cobas c501, c502	
Your factor	$0 + 1.000 \cdot x$	
Method factor	$0 + 1.000 \cdot x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ALTM	lab
mean	250	252	250	253
SD	7	5	7	
n	110	82	114	
no	17	1	17	
rec.	101%	101%	101%	

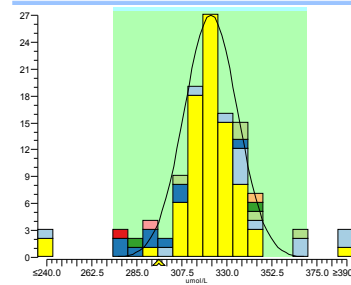
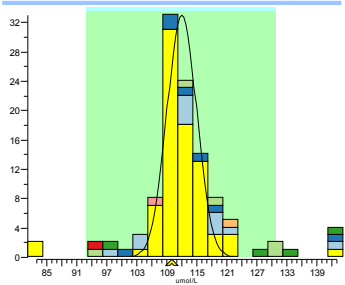
	cons.	meth.	ALTM	lab
mean	190	191	190	196
SD	6	5	6	
n	110	82	115	
no	15	3	17	
rec.	103%	103%	103%	

	cons.	meth.	ALTM	lab
mean	283	285	282	282
SD	10	8	10	
n	110	82	114	
no	10	4	11	
rec.	100%	99%	100%	

	cons.	meth.	ALTM	lab
mean	214	215	214	214
SD	7	6	7	
n	110	82	115	
no	10	1	11	
rec.	100%	99%	100%	

2023.4 E




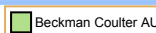




2023.4 F



	cons.	meth.	ALTM	lab
mean	111	111	111	109
SD	3	3	4	
n	105	79	110	
no	15	6	14	
rec.	98%	98%	98%	

	cons.	meth.	ALTM	lab
mean	322	323	322	296
SD	13	9	13	
n	110	81	113	
no	11	3	12	
rec.	92%	92%	92%	

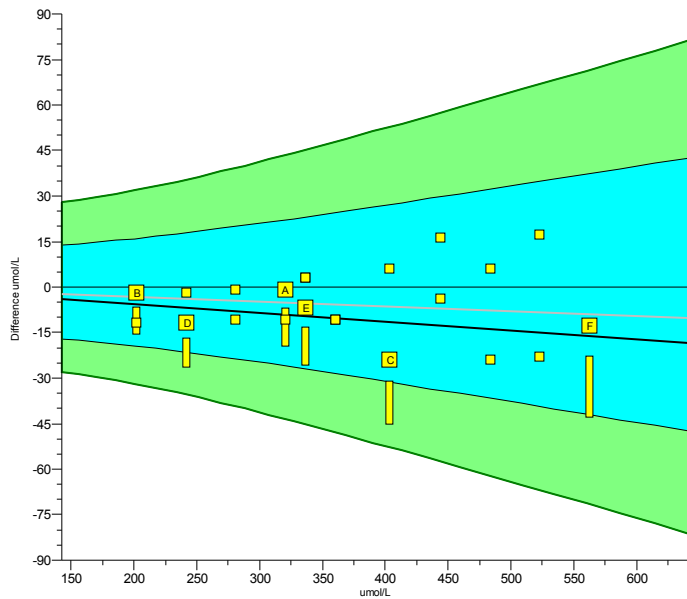
Legend



 Roche	 Siemens Atellica	 Abbott	 Beckman Coulter AU	 Other methods
 Siemens Advia 1800	 Ortho	 Beckman Coulter DxC		

Clinical Chemistry, blood 2023.4

Urate

units : umol/L



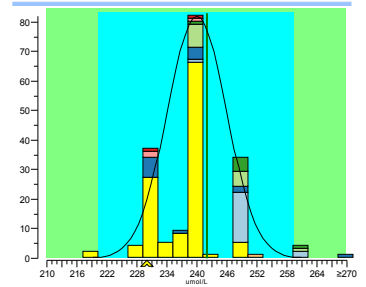
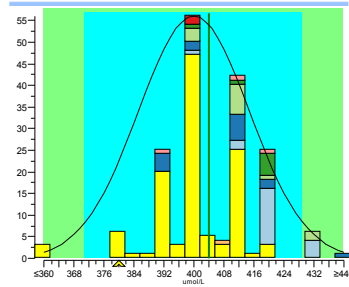
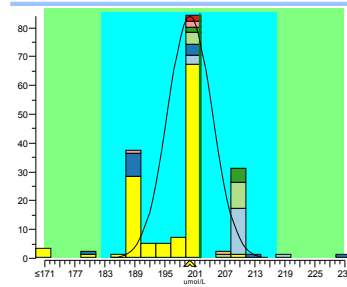
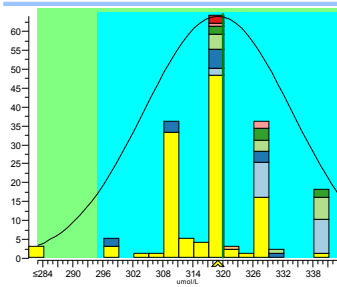
	2023.4	cumulative
Trueness	-2.9%	-1.7%
Precision	1.9%	3.0%
Number	6	24
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	3.8	3.9
Score pictogram		
Regression line	$0 + 0.971 \cdot x$	$0 + 0.984 \cdot x$
Consensus group	Uricase-colorimetrie en differentiele UV	
Method	Roche	
Analyser	Roche cobas c702	
Your factor	$0 + 1.000 \cdot x$	
Method factor	$0 + 1.000 \cdot x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	320	318	321	320
SD	15	7		
n	179	118		
no	3	3		
rec.	100%	101%	100%	

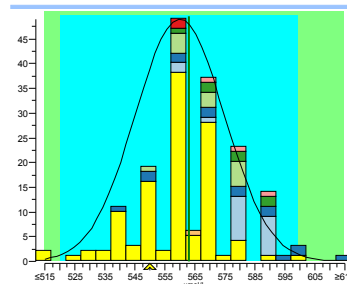
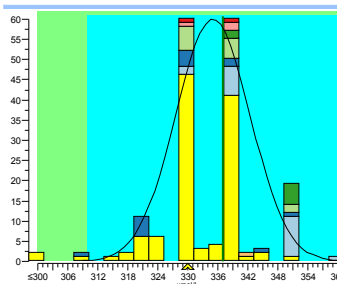
	cons.	meth.	ref.	lab
mean	200	197	202	200
SD	4	5		
n	180	118		
no	8	4		
rec.	100%	102%	99%	

	cons.	meth.	ref.	lab
mean	400	400	404	380
SD	15	9		
n	179	118		
no	4	3		
rec.	95%	95%	94%	

	cons.	meth.	ref.	lab
mean	240	237	242	230
SD	6	5		
n	180	118		
no	7	2		
rec.	96%	97%	95%	

2023.4 E

2023.4 F



	cons.	meth.	ref.	lab
mean	335	333	337	330
SD	7	7		
n	176	116		
no	5	3		
rec.	99%	99%	98%	

	cons.	meth.	ref.	lab
mean	560	559	563	550
SD	15	12		
n	177	116		
no	3	2		
rec.	98%	98%	98%	

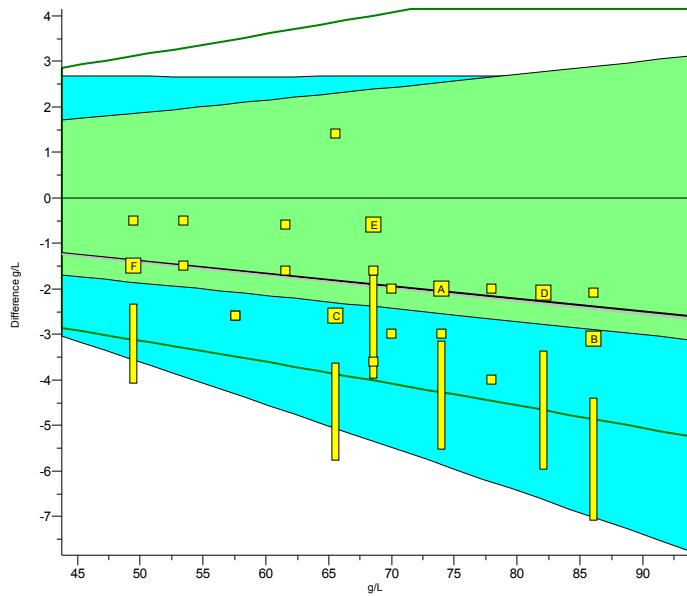
Legend

 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Siemens Advia
 Beckman Coulter DxC	 Siemens Dimension	 Ortho		

Clinical Chemistry, blood 2023.4

Total Protein

units : g/L



	2023.4	cumulative
Trueness	-2.8%	-2.8%
Precision	0.86%	1.6%
Number	6	24
Outliers	0	0
Sigma-TE	1.3	1.3
Sigma-SA	3.1 1	3.0 1
Score pictogram		
Regression line	<u>0.0 + 0.972.x</u>	<u>0.0 + 0.972.x</u>
Consensus group	Biureet	
Method	Roche	
Analyser	Roche cobas c702	
Your factor	0 + 1.000.x	
Method factor	0 + 1.001.x	

	2023.4 A				2023.4 B				2023.4 C				2023.4 D				2023.4 E				2023.4 F			
	cons.	meth.	ref.	lab	cons.	meth.	ref.	lab	cons.	meth.	ref.	lab	cons.	meth.	ref.	lab	cons.	meth.	ref.	lab	cons.	meth.	ref.	lab
mean	72.0	72.2	74.0	72	84.0	83.6	86.1	83	64.0	64.3	65.6	63	80.0	79.8	82.1	80	68.0	67.5	68.6	68	49.0	48.8	49.5	48
SD	1.5	1.2			1.5	1.4			1.5	1.1			1.5	1.3			1.5	1.2			1.5	1.0		
n	180	118			182	119			181	119			178	117			180	117			180	117		
no	8	2			4	2			3	3			2	2			2	2			2	2		
rec.	100%	100%	97%		99%	99%	96%		98%	98%	96%		100%	100%	97%		100%	101%	99%		98%	98%	97%	

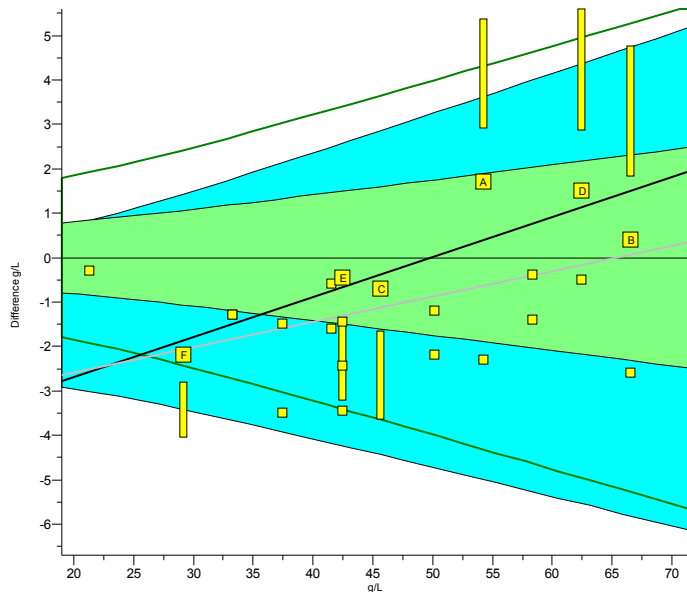
Legend



 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Siemens Advia
 Siemens Dimension	 Beckman Coulter DxC	 Ortho		

Clinical Chemistry, blood 2023.4

Albumin

units : g/L



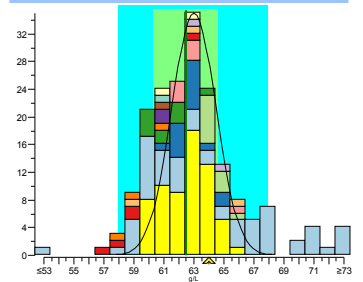
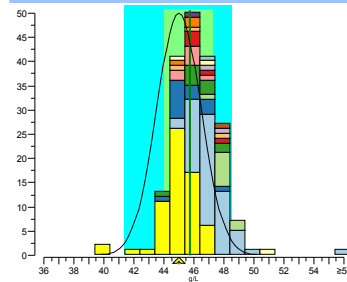
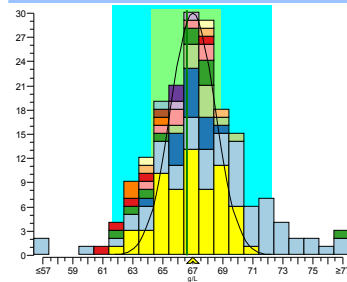
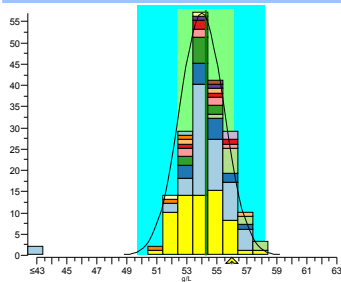
	2023.4	cumulative
Trueness	-0.11%	-2.4%
Precision	2.0%	2.4%
Number	6	25
Outliers	0	0
Sigma-TE	1.3	0.8
Sigma-SA	3.8 ■	3.3 ■
Score pictogram		
Regression line	$-4.5 + 1.090 \cdot x$	$-3.7 + 1.057 \cdot x$
Consensus group	Broomkresolpurper	
Method	Roche Bromocresol purper	
Analyser	Roche cobas c702	
Your factor	0 + 1.000.x	
Method factor	0 + 0.995.x	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	exp.	lab
mean	54.0	54.0	54.3	56
SD	1.5	1.5		
n	96	64		
no	0	0		
rec.	104%	104%	103%	

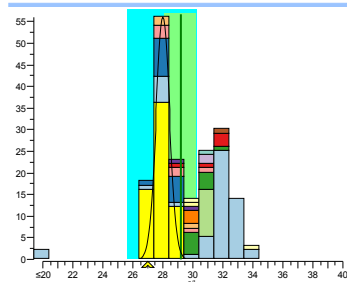
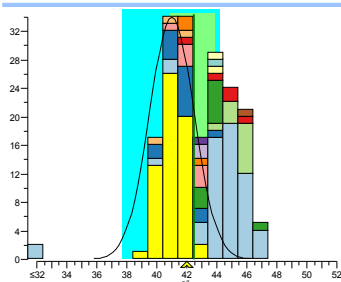
	cons.	meth.	exp.	lab
mean	67.0	67.0	66.6	67
SD	1.5	2.0		
n	96	64		
no	1	1		
rec.	100%	100%	101%	

	cons.	meth.	exp.	lab
mean	45.0	45.2	45.7	45
SD	1.5	1.0		
n	95	64		
no	2	2		
rec.	100%	100%	98%	

	cons.	meth.	exp.	lab
mean	63.0	62.6	62.5	64
SD	1.5	1.6		
n	96	64		
no	1	0		
rec.	102%	102%	102%	

2023.4 E

2023.4 F



	cons.	meth.	exp.	lab
mean	41.0	41.1	42.45	42
SD	1.5	0.8		
n	93	62		
no	0	0		
rec.	102%	102%	99%	

	cons.	meth.	exp.	lab
mean	28.0	27.9	29.2	27
SD	0.4	0.7		
n	96	64		
no	9	0		
rec.	96%	97%	92%	

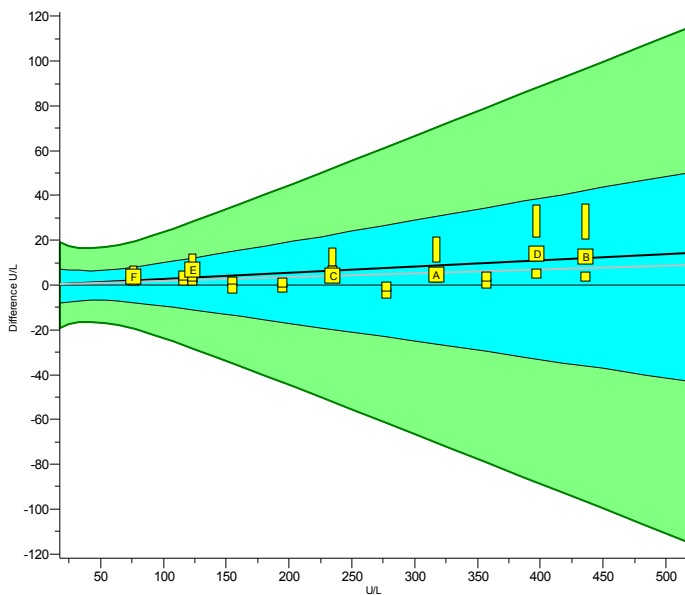
Legend

 Roche Bromocresol purper	 Roche Bromocresol groen	 Siemens Atellica Broomkresolpurper	 Abbott Bromo cresol groen	 Beckman Coulter AU Bromocresol groen
 Siemens Advia Bromocresol purper	 Siemens Atellica Broomkresolgroen	 Siemens Dimension Bromocresol purper	 Beckman Coulter AU Bromocresol purper	 Beckman Coulter AU Immunochemical
 Abbott Broomkresolpurper	 Ortho Broomkresolgroen	 Siemens Advia Bromo kresol groen	 Beckman Coulter DxC Bromocresol purper	 Beckman Coulter DxC Bromocresol groen

Clinical Chemistry, blood 2023.4

CK

units : U/L



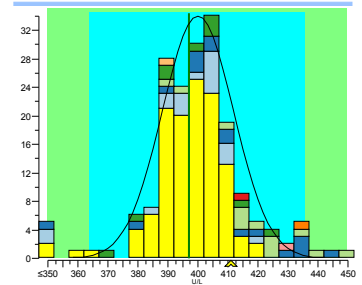
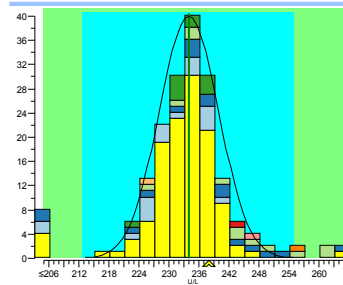
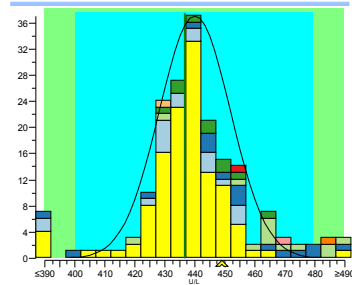
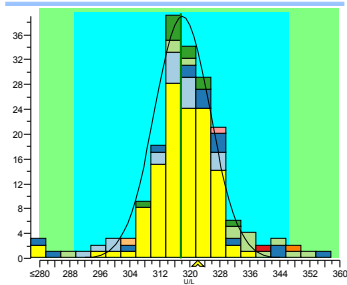
	2023.4	cumulative
Trueness	+2.9%	+1.7%
Precision	0.78%	1.6%
Number	6	24
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	5.0	5.8
Score pictogram		
Regression line	$0 + 1.028 \cdot x$	$0 + 1.017 \cdot x$
Consensus group	IFCC traceerbaar	
Method	Roche IFCC traceable	
Analyser	Roche cobas c702	
Your factor	$0 + 1.000 \cdot x$	
Method factor	$0 + 0.996 \cdot x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	318	318	317.7	322
SD	7	7		
n	182	121		
no	14	2		
rec.	101%	101%	101%	

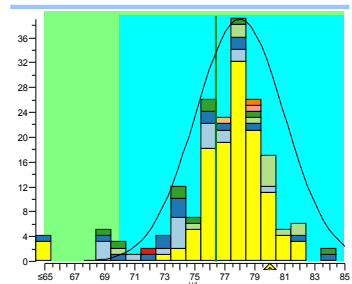
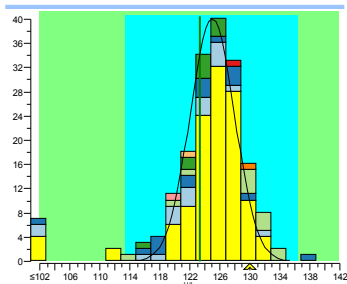
	cons.	meth.	ref.	lab
mean	440	438	436.6	449
SD	12	10		
n	183	121		
no	17	5		
rec.	102%	102%	103%	

	cons.	meth.	ref.	lab
mean	235	235	234.9	239
SD	6	5		
n	182	121		
no	15	5		
rec.	102%	102%	102%	

	cons.	meth.	ref.	lab
mean	400	398	397.0	411
SD	12	9		
n	183	121		
no	11	4		
rec.	103%	103%	104%	

2023.4 E

2023.4 F



	cons.	meth.	ref.	lab
mean	125.0	125.6	123.3	130
SD	3.0	2.7		
n	179	119		
no	14	6		
rec.	104%	104%	105%	

	cons.	meth.	ref.	lab
mean	78.0	77.9	76.4	80
SD	3.0	1.7		
n	181	119		
no	9	3		
rec.	103%	103%	105%	

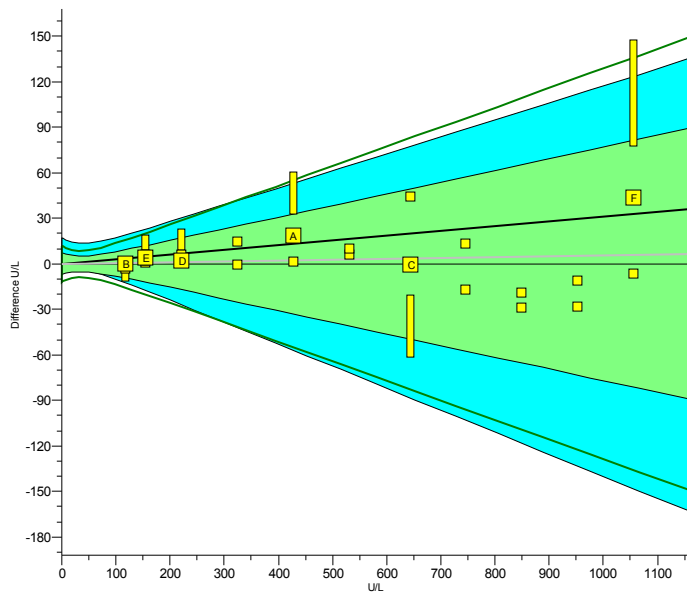
Legend



Roche IFCC traceable	Siemens Atellica IFCC traceable	Beckman Coulter AU IFCC traceable	Abbott IFCC traceable	Siemens Advia IFCC traceable
Ortho IFCC traceable	Beckman Coulter DxC not-IFCC traceable	Siemens Dimension IFCC traceable	Beckman Coulter DxC IFCC traceable	

Clinical Chemistry, blood 2023.4

LD

units : U/L



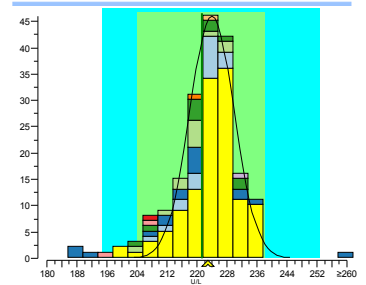
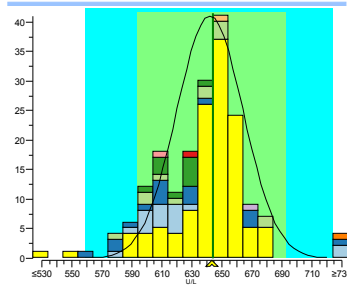
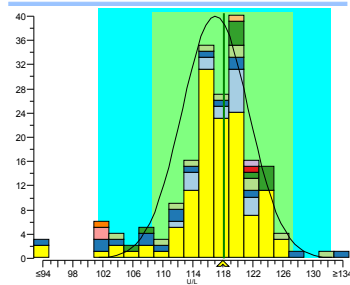
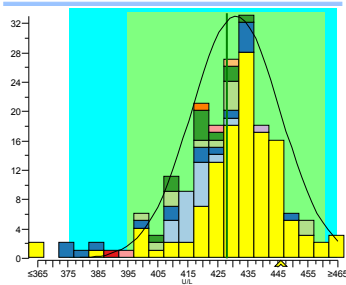
	2023.4	cumulative
Trueness	+2.6%	+0.70%
Precision	2.7%	3.2%
Number	6	24
Outliers	0	0
Sigma-TE	3.0	3.0
Sigma-SA	5.1 2	5.0 2
Score pictogram		
Regression line	$0 + 1.031 \cdot x$	$0 + 1.005 \cdot x$
Consensus group	IFCC traceerbaar	
Method	Roche IFCC traceable	
Analyser	Roche cobas c702	
Your factor	$0 + 1.000 \cdot x$	
Method factor	$0 + 0.992 \cdot x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	431	435	427.9	446
SD	15	13		
n	186	124		
no	7	3		
rec.	103%	103%	104%	

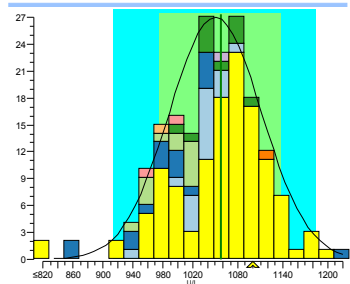
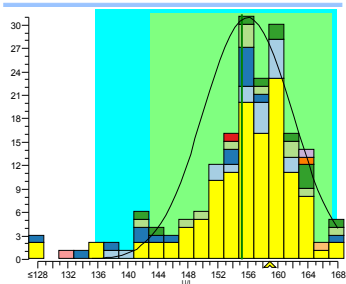
	cons.	meth.	ref.	lab
mean	117	117	118.1	118
SD	4	4		
n	187	124		
no	13	3		
rec.	101%	101%	100%	

	cons.	meth.	ref.	lab
mean	642	644	643.8	643
SD	22	19		
n	186	124		
no	7	2		
rec.	100%	100%	100%	

	cons.	meth.	ref.	lab
mean	224	225	221.4	223
SD	6	6		
n	187	124		
no	11	4		
rec.	100%	99%	101%	

2023.4 E



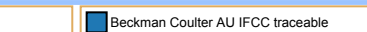
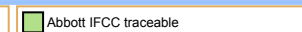






2023.4 F



	cons.	meth.	ref.	lab
mean	156	156	155.2	159
SD	6	5		
n	182	121		
no	9	4		
rec.	102%	102%	102%	

	cons.	meth.	ref.	lab
mean	1050	1064	1056.8	1100
SD	62	56		
n	184	122		
no	4	2		
rec.	105%	103%	104%	

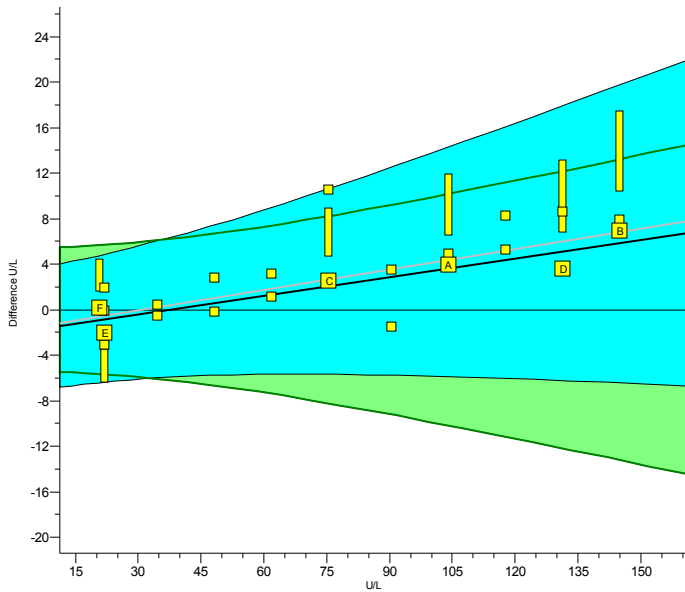
Legend



 Roche IFCC traceable	 Siemens Atellica IFCC traceable	 Beckman Coulter AU IFCC traceable	 Abbott IFCC traceable	 Siemens Advia IFCC traceable
 Overigen IFCC traceable	 Ortho IFCC traceable	 Beckman Coulter AU not-IFCC traceable	 Siemens Dimension IFCC traceable	 Beckman Coulter DxC IFCC traceable

Clinical Chemistry, blood 2023.4

ASAT

units : U/L



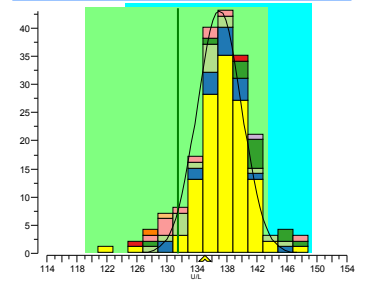
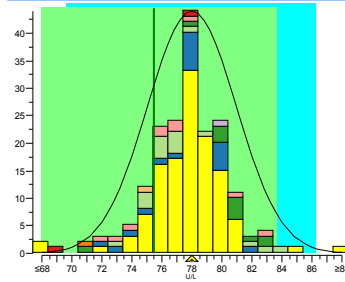
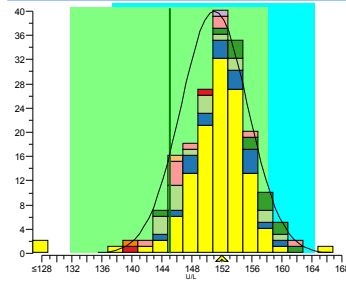
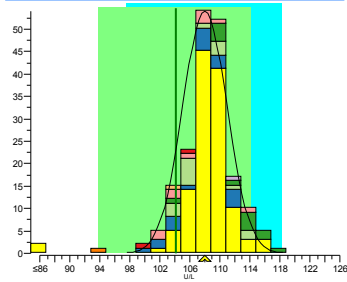
	2023.4	cumulative
Trueness	+2.8%	+3.4%
Precision	1.3%	3.0%
Number	6	24
Outliers	0	0
Sigma-TE	4.1 ■	3.9 ■
Sigma-SA	4.1	3.8
Score pictogram		
Regression line	$-2.0 + 1.054.x$	$-1.9 + 1.060.x$
Consensus group	IFCC traceerbaar	
Method	Roche IFCC traceable	
Analyser	Roche cobas c702	
Your factor	0 + 1.000.x	
Method factor	0 + 1.002.x	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	108.0	108.5	104.1	108
SD	3.0	2.4		
n	186	124		
no	3	2		
rec.	100%	100%	104%	

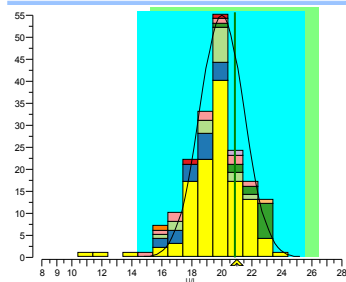
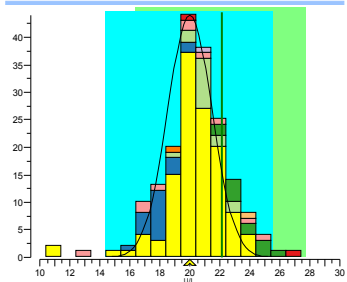
	cons.	meth.	ref.	lab
mean	151.0	151.3	145.1	152
SD	4.4	3.2		
n	187	124		
no	4	4		
rec.	101%	100%	105%	

	cons.	meth.	ref.	lab
mean	78.0	77.9	75.5	78
SD	3.0	1.9		
n	185	123		
no	4	3		
rec.	100%	100%	103%	

	cons.	meth.	ref.	lab
mean	137.0	137.4	131.4	135
SD	3.0	2.5		
n	187	124		
no	10	3		
rec.	99%	98%	103%	

2023.4 E



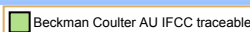

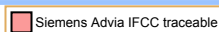




2023.4 F



	cons.	meth.	ref.	lab
mean	20.0	20.6	22.1	20
SD	1.5	1.5		
n	183	122		
no	10	3		
rec.	100%	97%	90%	

	cons.	meth.	ref.	lab
mean	20.0	19.9	20.9	21
SD	1.5	1.5		
n	185	122		
no	4	3		
rec.	105%	106%	100%	

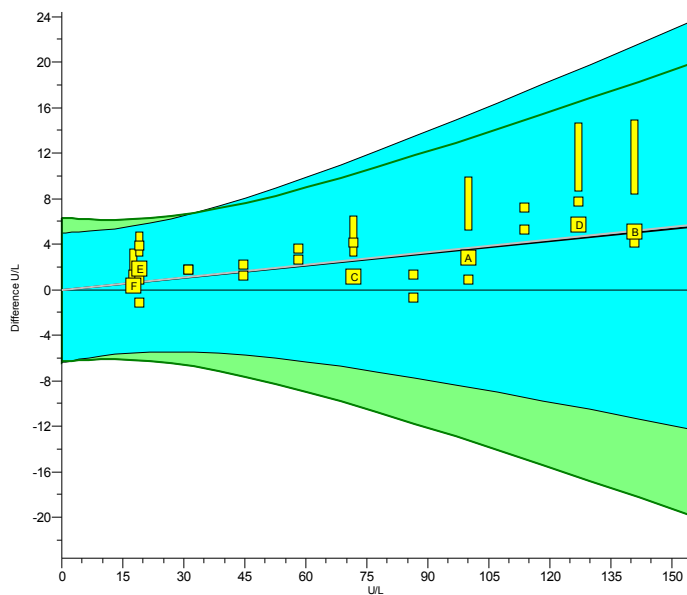
Legend



 Roche IFCC traceable	 Siemens Atellica IFCC traceable	 Beckman Coulter AU IFCC traceable	 Abbott IFCC traceable	 Siemens Advia IFCC traceable
 Siemens Dimension IFCC traceable	 Ortho IFCC traceable	 Beckman Coulter AU not-IFCC traceable	 Beckman Coulter Dxc IFCC traceable	

Clinical Chemistry, blood 2023.4

ALAT

units : U/L



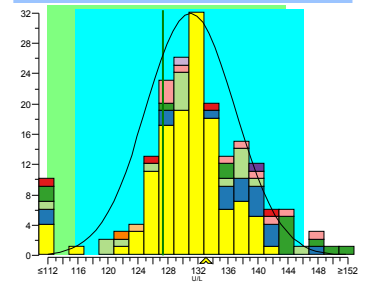
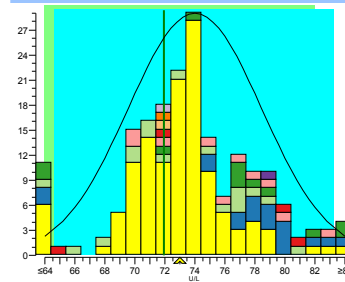
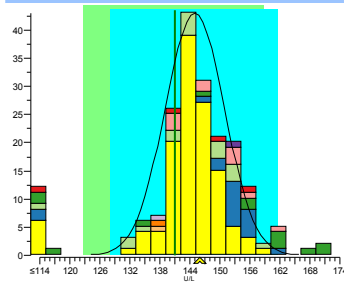
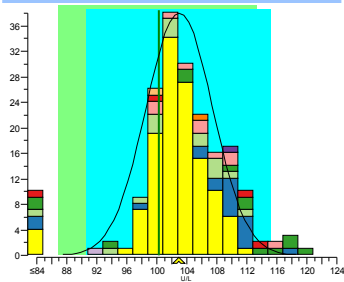
	2023.4	cumulative
Trueness	+3.6%	+3.7%
Precision	1.7%	2.6%
Number	6	24
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	5.7	5.4
Score pictogram		
Regression line	$0.0 + 1.036.x$	$0.0 + 1.037.x$
Consensus group	IFCC traceerbaar	
Method	Roche IFCC traceable	
Analyser	Roche cobas c702	
Your factor	$0 + 1.000.x$	
Method factor	$0 + 1.005.x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	103.0	102.9	100.2	103
SD	4.4	3.1		
n	189	124		
no	14	4		
rec.	100%	100%	103%	

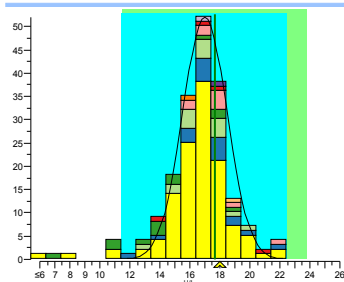
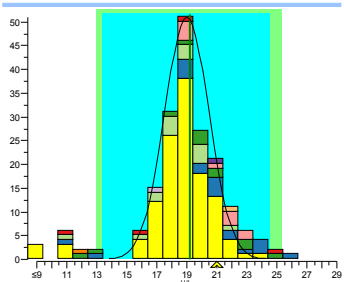
	cons.	meth.	ref.	lab
mean	145	145	140.9	146
SD	6	5		
n	191	125		
no	18	6		
rec.	101%	101%	104%	

	cons.	meth.	ref.	lab
mean	74.0	73.1	71.9	73
SD	4.4	2.9		
n	190	125		
no	10	5		
rec.	99%	100%	102%	

	cons.	meth.	ref.	lab
mean	131	131	127.3	133
SD	6	4		
n	191	125		
no	12	4		
rec.	102%	102%	104%	

2023.4 E



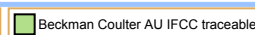

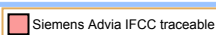





2023.4 F



	cons.	meth.	ref.	lab
mean	19.0	19.0	19.2	21
SD	1.5	1.4		
n	187	123		
no	20	7		
rec.	111%	111%	109%	

	cons.	meth.	ref.	lab
mean	17.0	16.8	17.7	18
SD	1.5	1.5		
n	189	123		
no	12	6		
rec.	106%	107%	102%	

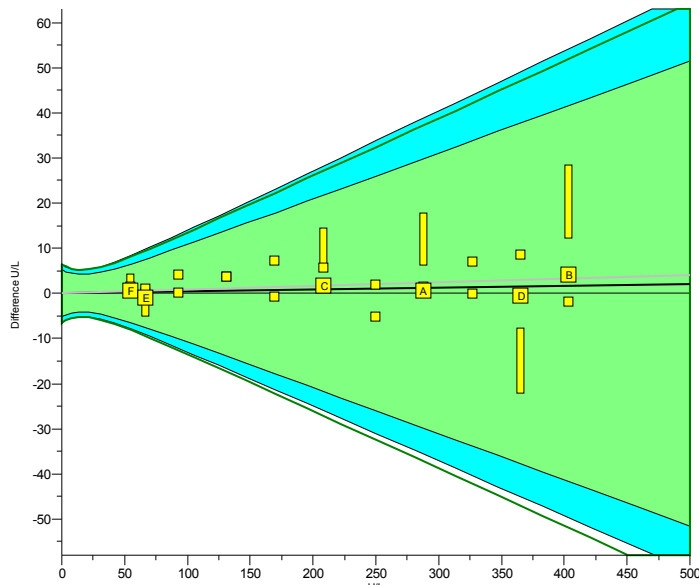
Legend



 Roche IFCC traceable	 Siemens Atellica IFCC traceable	 Beckman Coulter AU IFCC traceable	 Abbott IFCC traceable	 Siemens Advia IFCC traceable
 Siemens Dimension IFCC traceable	 Ortho IFCC traceable	 Overigen IFCC traceable	 Beckman Coulter AU not-IFCC traceable	 Beckman Coulter DxC IFCC traceable

Clinical Chemistry, blood 2023.4

Alk. Phosphatase

units : U/L



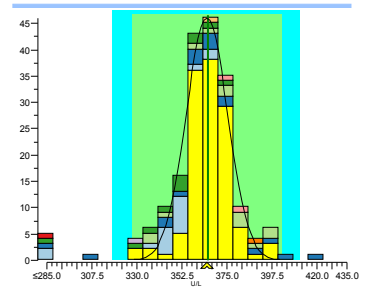
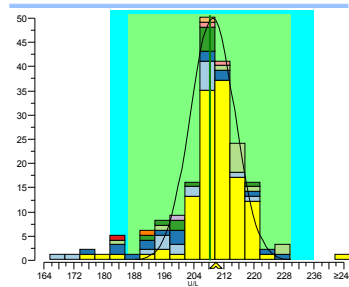
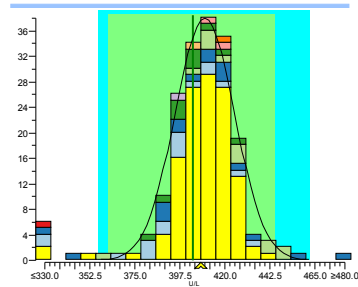
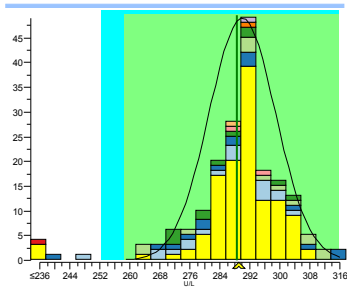
	2023.4	cumulative
Trueness	+0.35%	+0.93%
Precision	0.44%	1.6%
Number	6	24
Outliers	0	0
Sigma-TE	6.0	6.0
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	$0 + 1.004 \cdot x$	$0 + 1.008 \cdot x$
Consensus group	IFCC traceerbaar	
Method	Roche IFCC traceable	
Analyser	Roche cobas c702	
Your factor	$0 + 1.000 \cdot x$	
Method factor	$0 + 1.013 \cdot x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	290	291	288.6	289
SD	9	7		
n	186	123		
no	7	4		
rec.	100%	99%	100%	

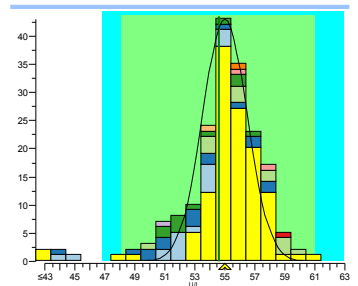
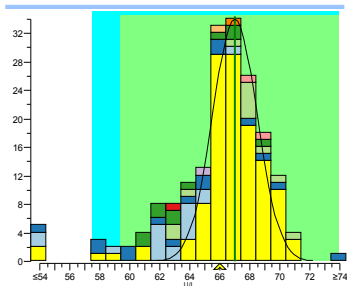
	cons.	meth.	ref.	lab
mean	410	412	403.9	408
SD	15	11		
n	187	123		
no	11	3		
rec.	100%	99%	101%	

	cons.	meth.	ref.	lab
mean	209	210	208.3	210
SD	6	5		
n	186	123		
no	17	5		
rec.	100%	100%	101%	

	cons.	meth.	ref.	lab
mean	365	367	365.5	365
SD	10	9		
n	187	123		
no	13	2		
rec.	100%	99%	100%	

2023.4 E



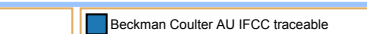
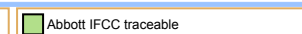

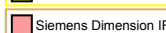


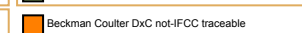

2023.4 F



	cons.	meth.	ref.	lab
mean	67.0	67.3	67.0	66
SD	1.5	1.6		
n	183	121		
no	25	6		
rec.	99%	98%	99%	

	cons.	meth.	ref.	lab
mean	55.0	55.7	54.6	55
SD	1.5	1.3		
n	185	121		
no	14	6		
rec.	100%	99%	101%	

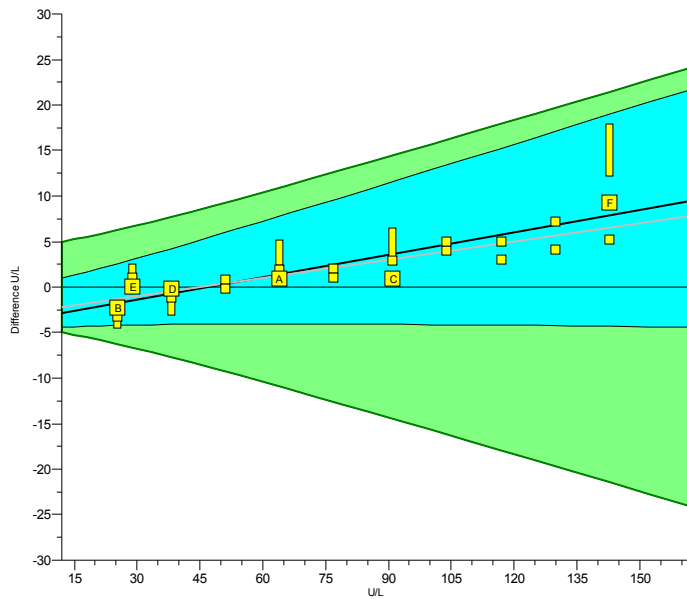
Legend



 Roche IFCC traceable	 Siemens Atellica IFCC traceable	 Beckman Coulter AU IFCC traceable	 Abbott IFCC traceable	 Siemens Advia IFCC traceable
 Siemens Dimension IFCC traceable	 Ortho IFCC traceable	 Overigen IFCC traceable	 Beckman Coulter Dx-c not-IFCC traceable	 Beckman Coulter Dx-c IFCC traceable

Clinical Chemistry, blood 2023.4

Gamma-GT

units : U/L



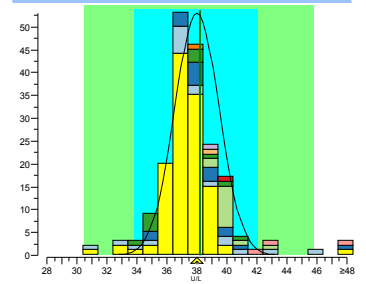
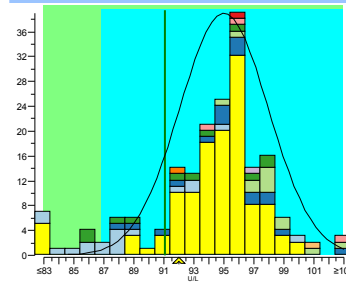
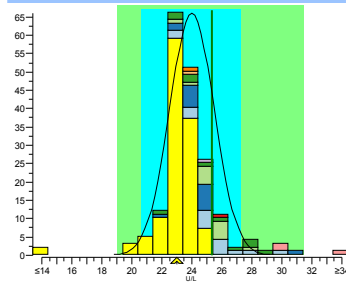
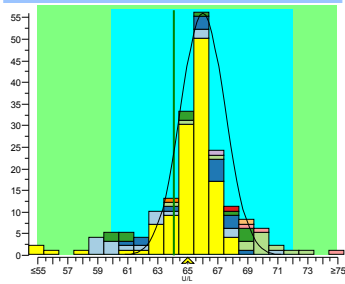
	2023.4	cumulative
Trueness	+2.5%	+2.7%
Precision	2.5%	1.8%
Number	6	24
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	4.5	4.3
Score pictogram		
Regression line	$-3.8 + 1.082.x$	$-3.0 + 1.067.x$
Consensus group	IFCC traceerbaar	
Method	Roche IFCC traceable	
Analyser	Roche cobas c702	
Your factor	0 + 1.000.x	
Method factor	0 + 0.998.x	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	66.0	65.6	64.1	65
SD	1.5	1.2		
n	187	123		
no	23	5		
rec.	98%	99%	101%	

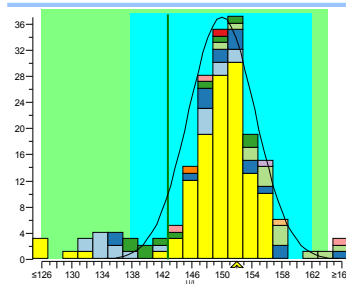
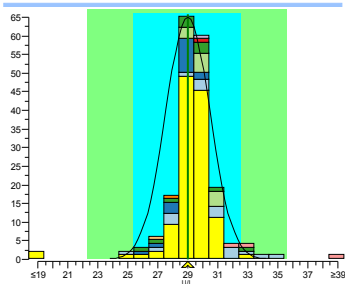
	cons.	meth.	ref.	lab
mean	24.0	23.2	25.3	23
SD	1.5	1.0		
n	187	123		
no	8	2		
rec.	96%	99%	91%	

	cons.	meth.	ref.	lab
mean	95.0	94.9	91.1	92
SD	3.0	2.2		
n	187	123		
no	16	5		
rec.	97%	97%	101%	

	cons.	meth.	ref.	lab
mean	38.0	37.4	38.2	38
SD	1.5	1.1		
n	188	123		
no	13	4		
rec.	100%	102%	99%	

2023.4 E



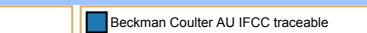
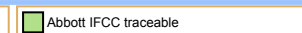






2023.4 F



	cons.	meth.	ref.	lab
mean	29.0	29.4	29.0	29
SD	1.5	1.0		
n	184	121		
no	5	2		
rec.	100%	99%	100%	

	cons.	meth.	ref.	lab
mean	150.0	150.0	142.8	152
SD	4.4	3.1		
n	186	121		
no	19	5		
rec.	101%	101%	106%	

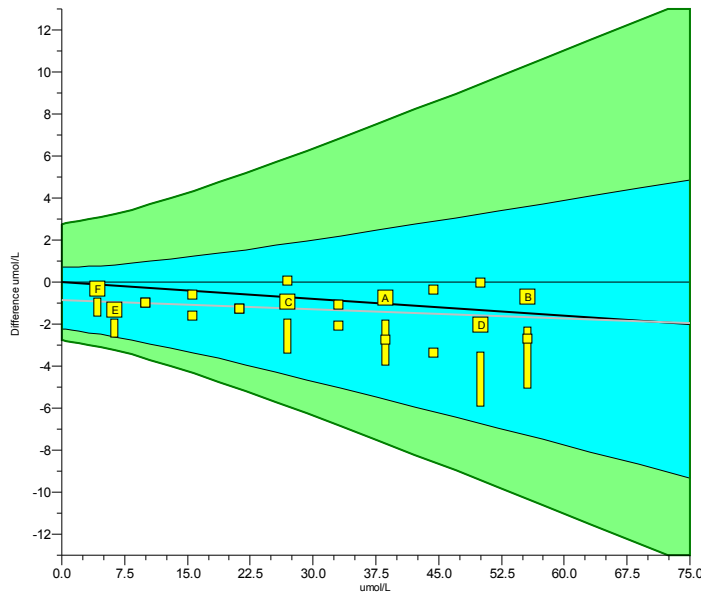
Legend



 Roche IFCC traceable	 Siemens Atellica IFCC traceable	 Beckman Coulter AU IFCC traceable	 Abbott IFCC traceable	 Siemens Advia IFCC traceable
 Siemens Dimension IFCC traceable	 Ortho IFCC traceable	 Overigen IFCC traceable	 Beckman Coulter DxC not-IFCC traceable	 Beckman Coulter DxC IFCC traceable

Clinical Chemistry, blood 2023.4

Bilirubin

units : umol/L



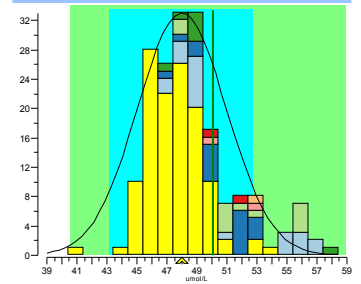
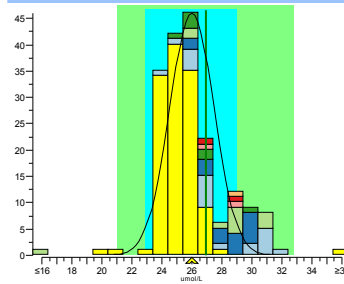
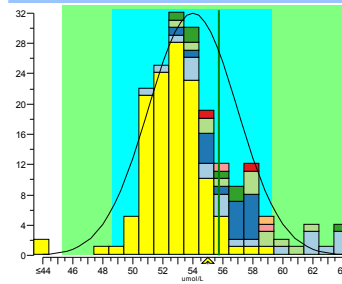
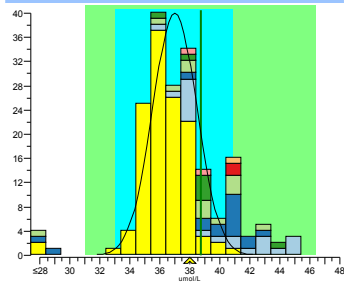
	2023.4	cumulative
Trueness	-3.5%	-4.8%
Precision	1.5%	3.4%
Number	6	24
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	3.8	3.4
Score pictogram		
Regression line	$0.0 + 0.973.x$	$-0.9 + 0.985.x$
Consensus group	Colorimetrie alle reagentia	
Method	Roche	
Analyser	Roche cobas c702	
Your factor	$0 + 1.000.x$	
Method factor	$0 + 1.004.x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	37.0	36.5	38.75	38
SD	1.5	1.4		
n	186	123		
no	18	2		
rec.	103%	104%	98%	

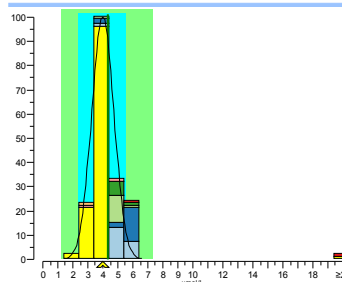
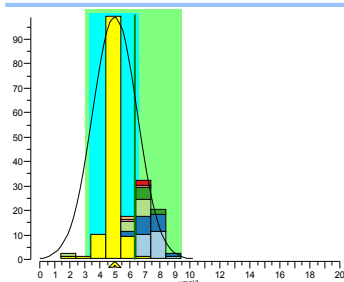
	cons.	meth.	ref.	lab
mean	54.0	52.9	55.7	55
SD	3.0	1.8		
n	187	123		
no	7	2		
rec.	102%	104%	99%	

	cons.	meth.	ref.	lab
mean	26.0	25.2	26.94	26
SD	1.5	1.0		
n	186	123		
no	13	3		
rec.	100%	103%	97%	

	cons.	meth.	ref.	lab
mean	48.0	47.5	50.05	48
SD	3.0	1.9		
n	186	123		
no	3	0		
rec.	100%	101%	96%	

2023.4 E

2023.4 F



	cons.	meth.	ref.	lab
mean	5.0	5.0	6.31	5
SD	1.5	0.5		
n	183	121		
no	0	0		
rec.	100%	101%	79%	

	cons.	meth.	ref.	lab
mean	4.0	3.8	4.340	4
SD	0.7	0.4		
n	184	120		
no	2	1		
rec.	100%	106%	92%	

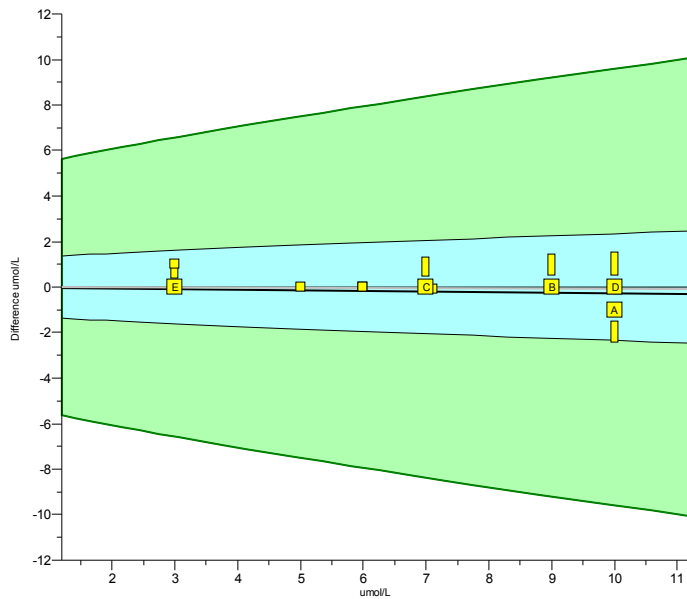
Legend

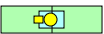
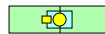
 Roche	 Siemens Atellica	 Beckman Coulter AU	 Abbott	 Siemens Advia
 Siemens Dimension	 Beckman Coulter DxC	 Ortho		

Clinical Chemistry, blood 2023.4

Bilirubin direct

units : umol/L



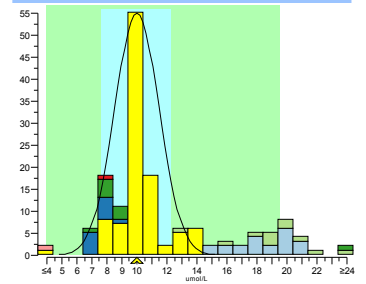
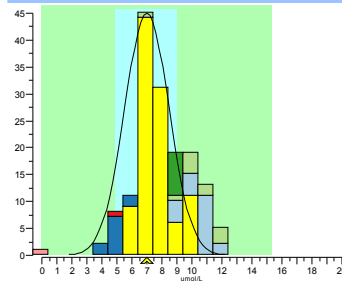
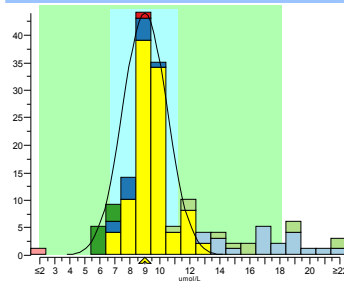
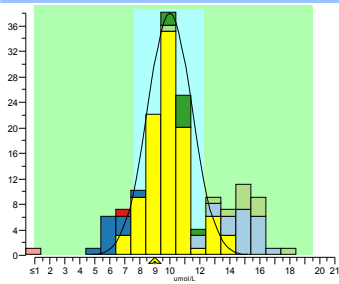
	2023.4	cumulative
Trueness	-2.3%	-0.10%
Precision	5.3%	5.2%
Number	5	21
Outliers	0	0
Sigma-TE	6.0	6.0
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$0.0 + 0.973.x$	$0.0 + 0.991.x$
Consensus group	Colorimetrie alle reagentia	
Method	Roche	
Analyser	Roche cobas c702	
Your factor	$0 + 1.000.x$	
Method factor	$0 + 1.001.x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ALTM	lab
mean	10.0	10.0	10.0	9
SD	1.5	1.5	1.5	
n	120	99	152	
no	2	0	24	
rec.	90%	90%	90%	

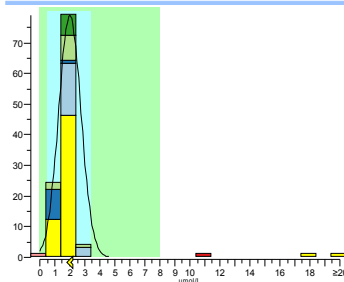
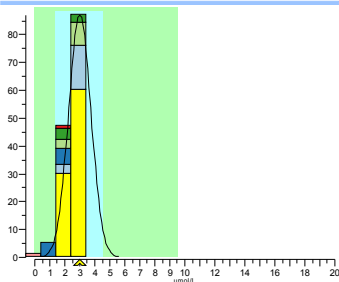
	cons.	meth.	ALTM	lab
mean	9.0	9.5	10.0	9
SD	1.5	1.2	1.5	
n	122	101	153	
no	1	0	23	
rec.	100%	94%	90%	

	cons.	meth.	ALTM	lab
mean	7.0	7.7	8.0	7
SD	1.5	1.1	1.5	
n	122	101	154	
no	1	0	1	
rec.	100%	91%	88%	

	cons.	meth.	ALTM	lab
mean	10.0	10.4	10.0	10
SD	1.5	1.4	1.5	
n	124	102	156	
no	3	1	34	
rec.	100%	96%	100%	

2023.4 E

2023.4 F



	cons.	meth.	ALTM	lab
mean	3.0	2.7	3.0	3
SD	0.7	0.5	0.7	
n	110	90	140	
no	1	0	1	
rec.	100%	112%	100%	

	cons.	meth.	ALTM	lab
mean	2.0	1.8	2.0	<2
SD	0.7	0.4	0.5	
n	80	60	111	
no	3	2	3	
rec.				

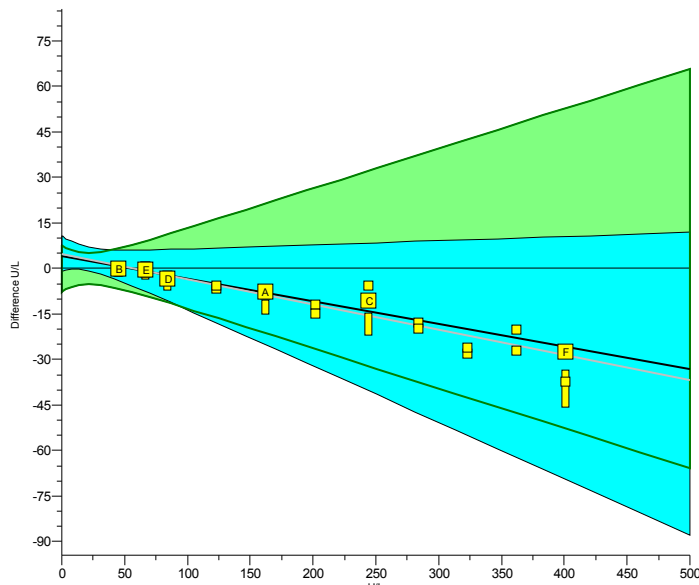
Legend



 Roche	 Siemens Atellica	 Beckman Coulter AU	 Siemens Advia	 Abbott
 Ortho	 Beckman Coulter DxC			

Clinical Chemistry, blood 2023.4

Amylase

units : U/L



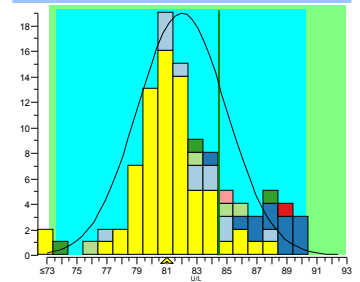
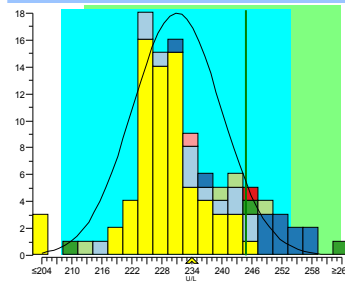
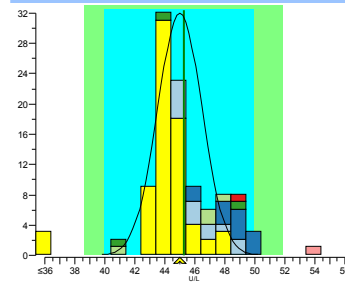
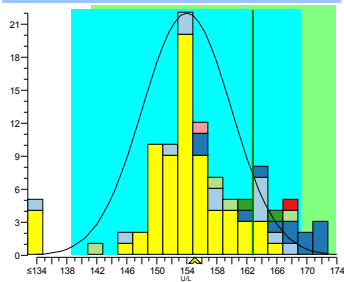
	2023.4	cumulative
Trueness	-5.1%	-5.9%
Precision	0.75%	1.6%
Number	6	24
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	5.6	4.7
Score pictogram		
Regression line	$4 + 0.925.x$	$5 + 0.917.x$
Consensus group	IFCC traceerbaar	
Method	Roche IFCC traceable	
Analyser	Roche cobas c702	
Your factor	$0 + 1.000.x$	
Method factor	$0 + 1.007.x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ref.	lab
mean	154	154	162.8	155
SD	6	4		
n	102	70		
no	7	4		
rec.	101%	100%	95%	

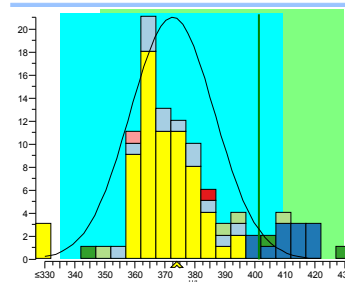
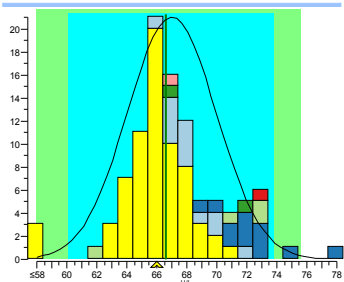
	cons.	meth.	ref.	lab
mean	45.0	44.5	45.3	45
SD	1.5	1.2		
n	103	70		
no	6	3		
rec.	100%	101%	99%	

	cons.	meth.	ref.	lab
mean	231	230	244.8	234
SD	9	6		
n	103	70		
no	5	3		
rec.	101%	102%	96%	

	cons.	meth.	ref.	lab
mean	82.0	81.4	84.5	81
SD	3.0	2.1		
n	102	70		
no	2	2		
rec.	99%	99%	96%	

2023.4 E

2023.4 F



	cons.	meth.	ref.	lab
mean	67.0	66.2	66.6	66
SD	3.0	1.7		
n	100	68		
no	4	3		
rec.	99%	100%	99%	

	cons.	meth.	ref.	lab
mean	372	370	401.5	374
SD	14	11		
n	100	67		
no	6	1		
rec.	100%	101%	93%	

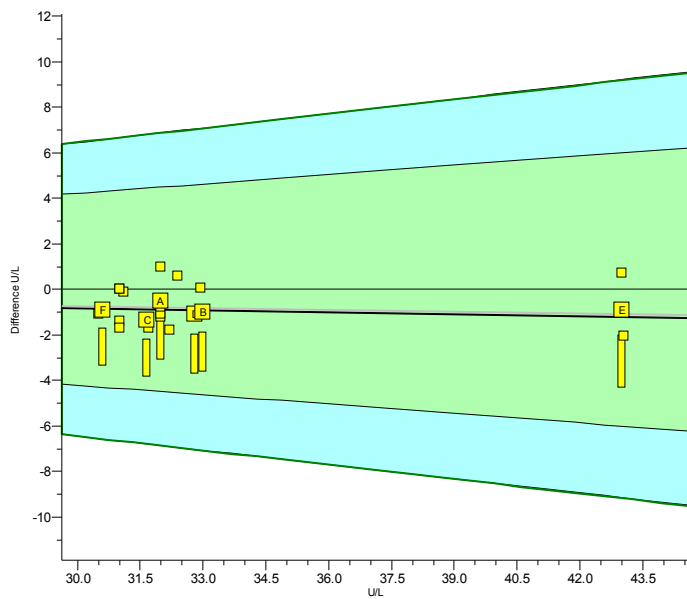
Legend



 Roche IFCC traceable	 Beckman Coulter AU IFCC traceable	 Siemens Atellica IFCC traceable	 Siemens Advia IFCC traceable	 Abbott IFCC traceable
 Ortho not IFCC traceable	 Beckman Coulter DxC IFCC traceable			

Clinical Chemistry, blood 2023.4

Lipase

units : U/L



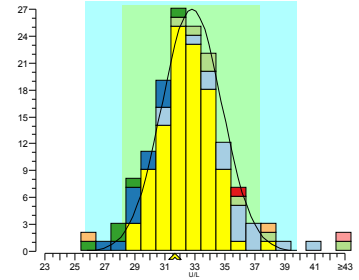
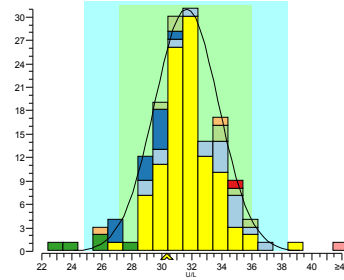
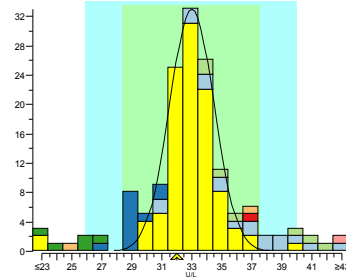
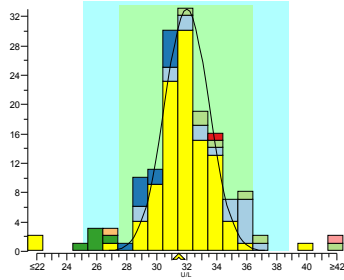
	2023.4	cumulative
Trueness	-2.8%	-2.6%
Precision	0.92%	2.2%
Number	6	24
Outliers	0	0
Sigma-TE	5.8	5.8
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	$0.0 + 0.972 \cdot x$	$0.0 + 0.975 \cdot x$
Consensus group	Colorimetrisch	
Method	Roche	
Analyser	Roche cobas c501, c502	
Your factor	$0.0 + 1.000 \cdot x$	
Method factor	$-0.1 + 0.998 \cdot x$	

2023.4 A

2023.4 B

2023.4 C

2023.4 D



	cons.	meth.	ALTM	lab
mean	32.0	32.0	32.0	31.5
SD	1.5	1.5	1.6	
n	148	103	149	
no	13	4	14	
rec.	98%	98%	98%	

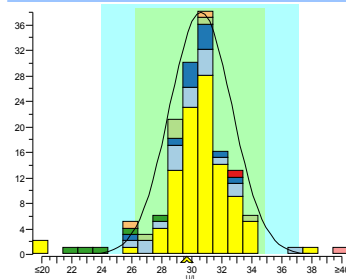
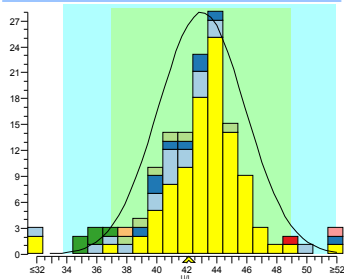
	cons.	meth.	ALTM	lab
mean	33.0	33.1	33.0	32.0
SD	1.5	1.4	1.5	
n	148	103	149	
no	21	3	22	
rec.	97%	97%	97%	

	cons.	meth.	ALTM	lab
mean	31.6	31.8	31.7	30.3
SD	2.2	1.6	2.1	
n	148	103	149	
no	3	1	4	
rec.	96%	95%	96%	

	cons.	meth.	ALTM	lab
mean	32.8	32.6	33.0	31.7
SD	2.0	1.6	1.9	
n	146	103	147	
no	5	0	7	
rec.	97%	97%	96%	

2023.4 E

2023.4 F



	cons.	meth.	ALTM	lab
mean	43.0	43.6	43.0	42.1
SD	2.9	2.2	3.0	
n	140	100	141	
no	4	2	5	
rec.	98%	97%	98%	

	cons.	meth.	ALTM	lab
mean	30.6	30.8	30.6	29.7
SD	2.1	1.5	2.1	
n	145	100	146	
no	7	3	8	
rec.	97%	96%	97%	

Legend

 Roche	 Siemens Atellica	 Abbott	 Siemens Advia	 Beckman Coulter AU
 Ortho	 Siemens Dimension	 Beckman Coulter DxC		

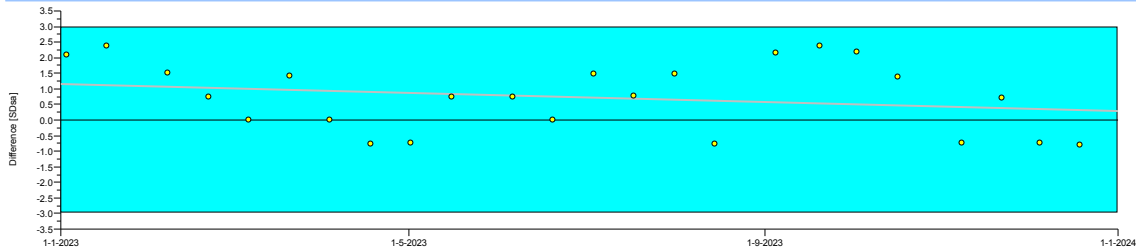
Clinical Chemistry, blood 2023.4

Time plots

Sodium

mmol/L

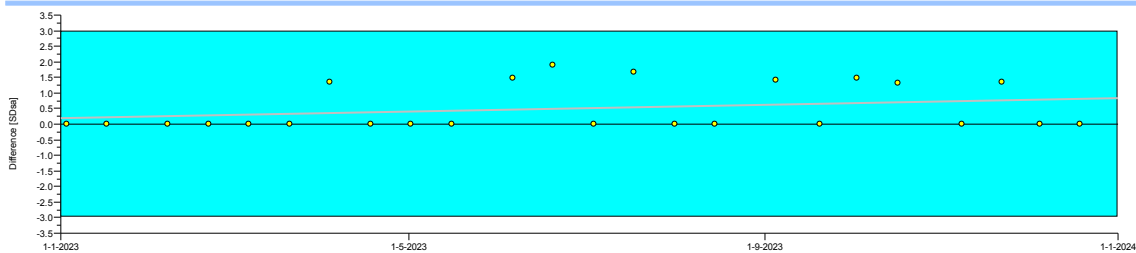
External



Potassium

mmol/L

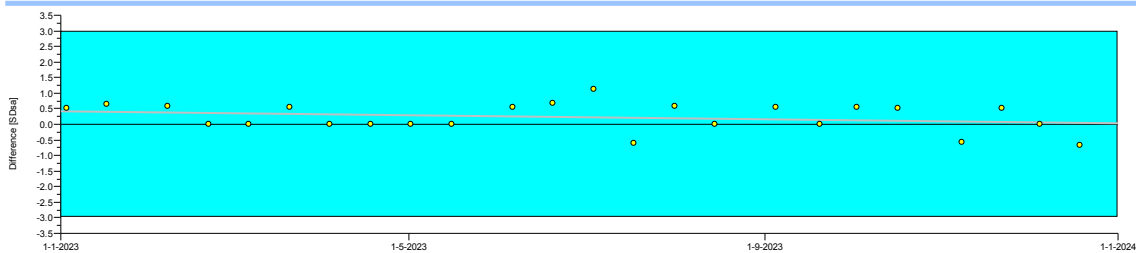
External



Chloride

mmol/L

External

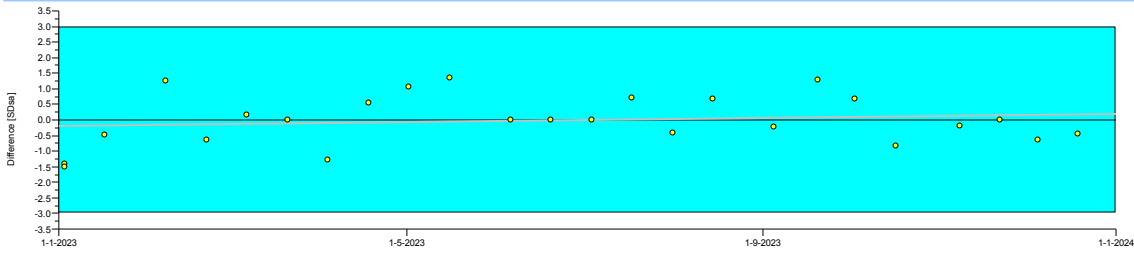


Clinical Chemistry, blood 2023.4

Calcium

mmol/L

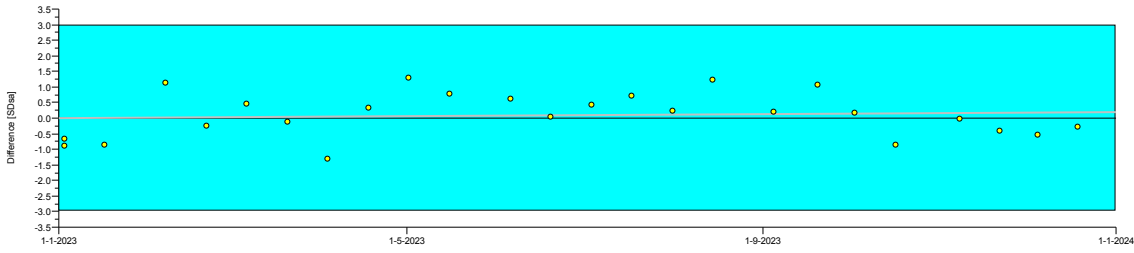
External



Corrected Calcium

mmol/L

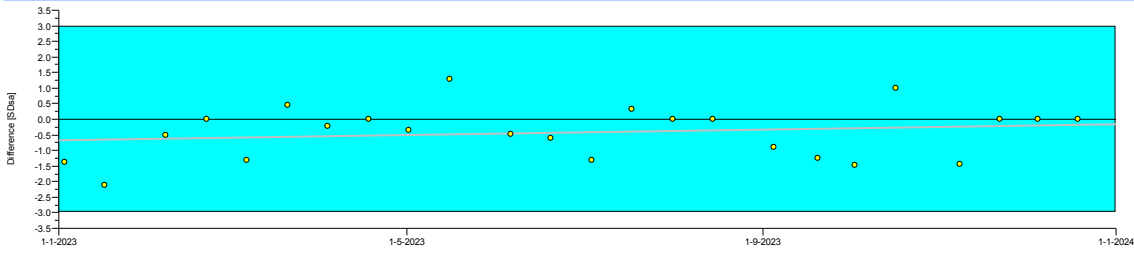
External



Inorg. Phosphate

mmol/L

External

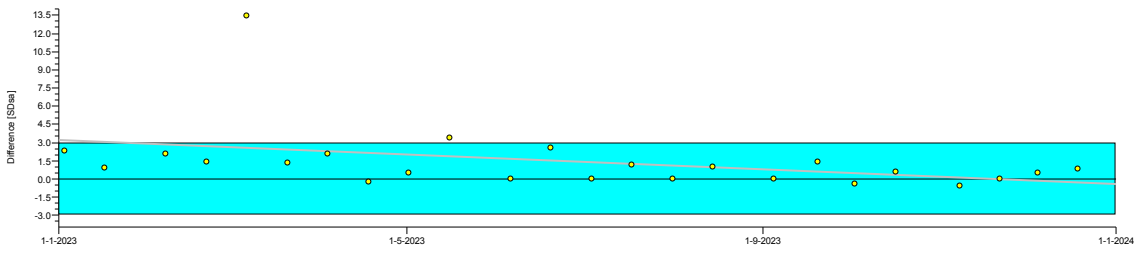


Clinical Chemistry, blood 2023.4

Magnesium

mmol/L

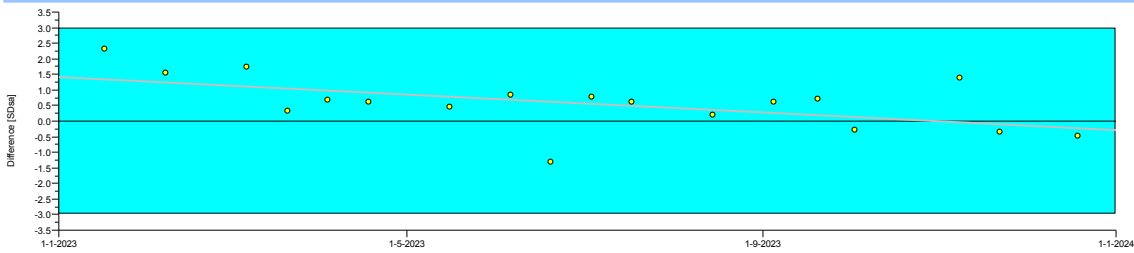
External



Lithium

mmol/L

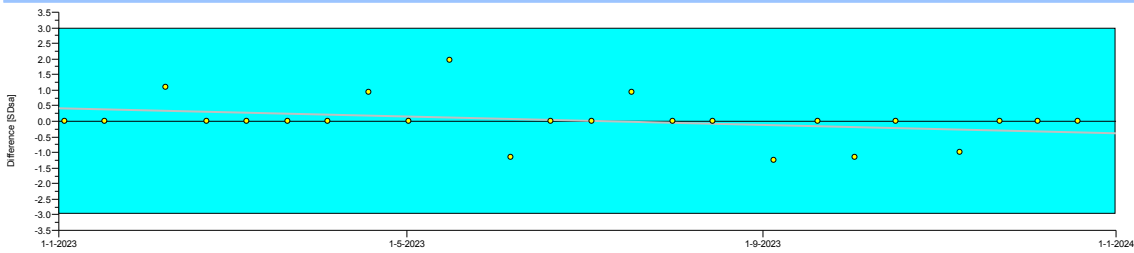
External



Iron

umol/L

External

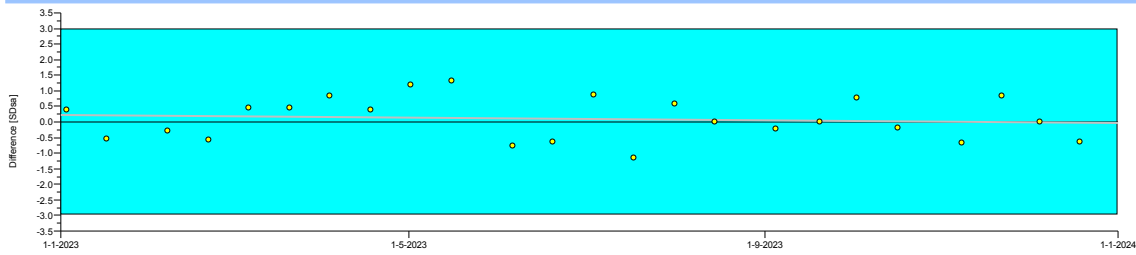


Clinical Chemistry, blood 2023.4

Urea

mmol/L

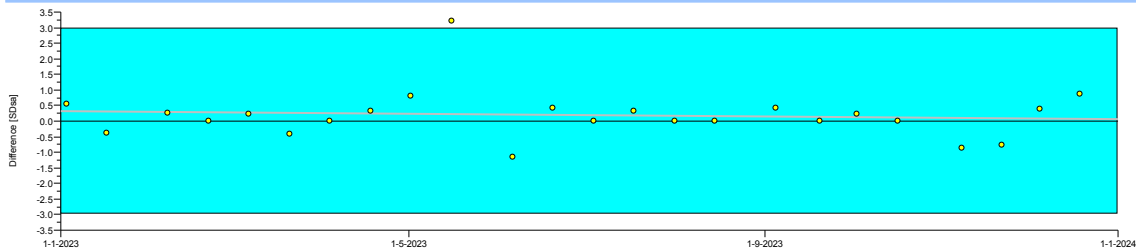
External



Creatinine

umol/L

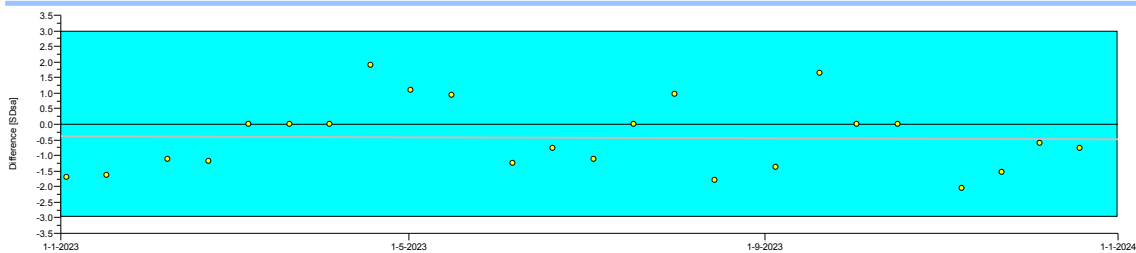
External



Urate

umol/L

External

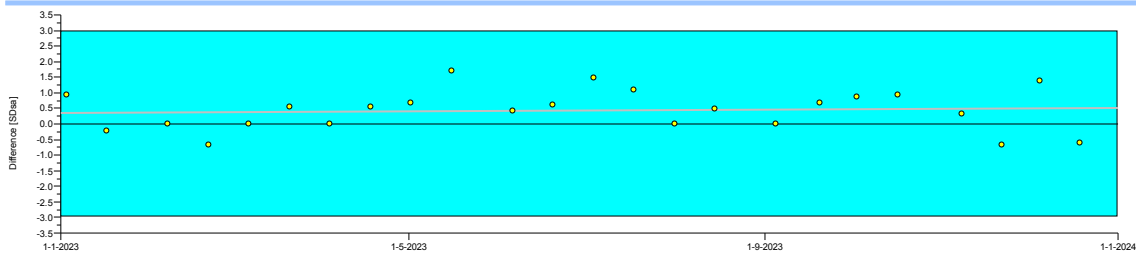


Clinical Chemistry, blood 2023.4

Glucose

mmol/L

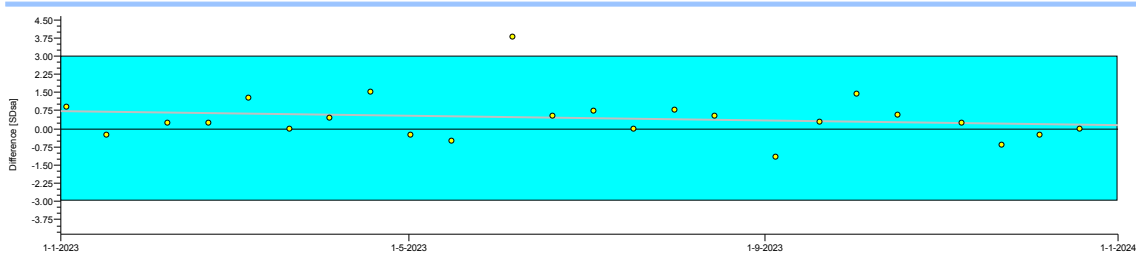
External



Osmolality

mosm/kg

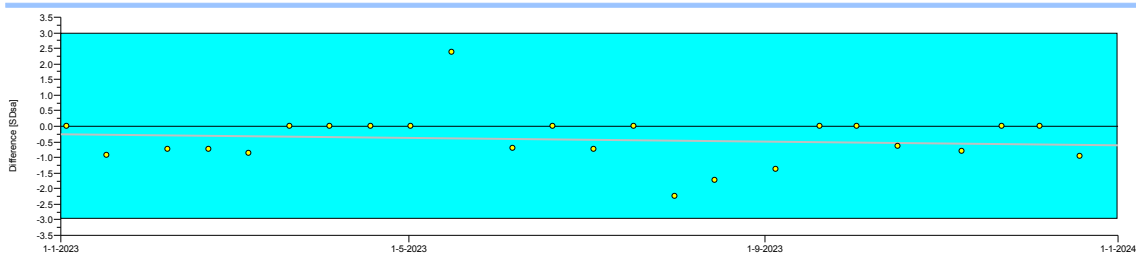
External



Total Protein

g/L

External

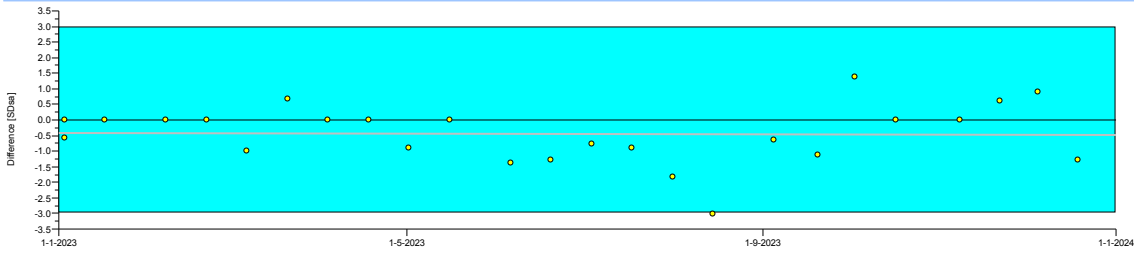


Clinical Chemistry, blood 2023.4

Albumin

g/L

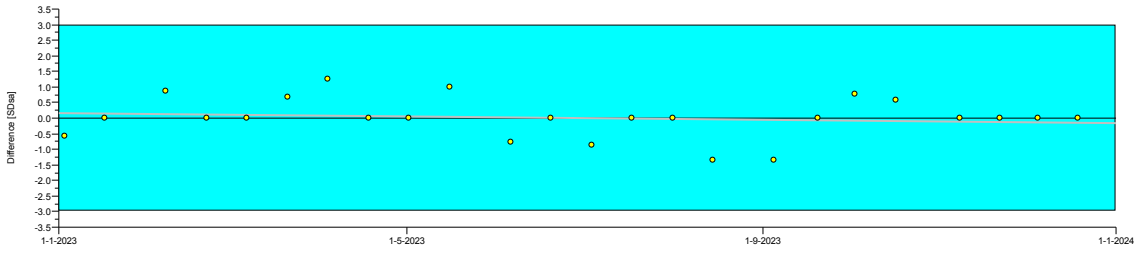
External



Bilirubin

umol/L

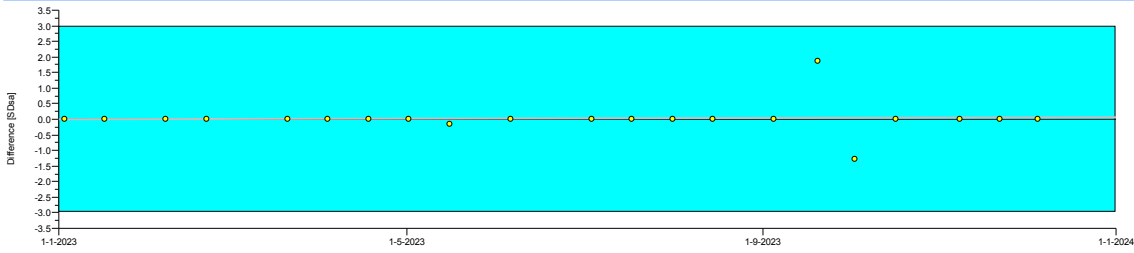
External



Bilirubin direct

umol/L

External

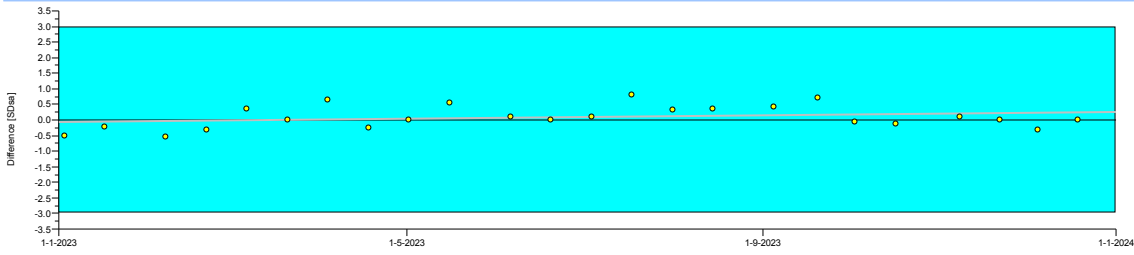


Clinical Chemistry, blood 2023.4

Alk. Phosphatase

U/L

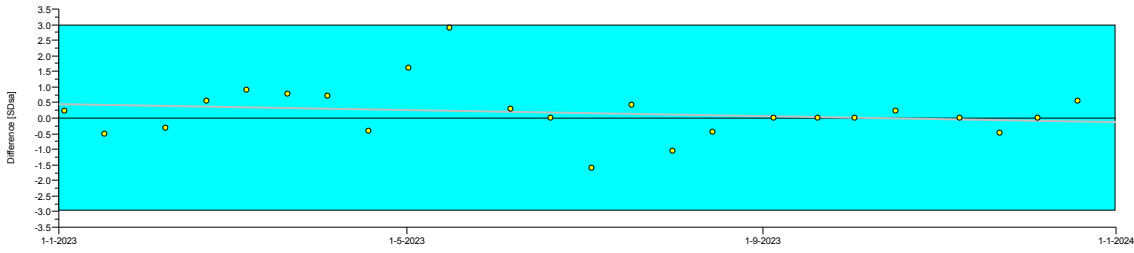
External



ASAT

U/L

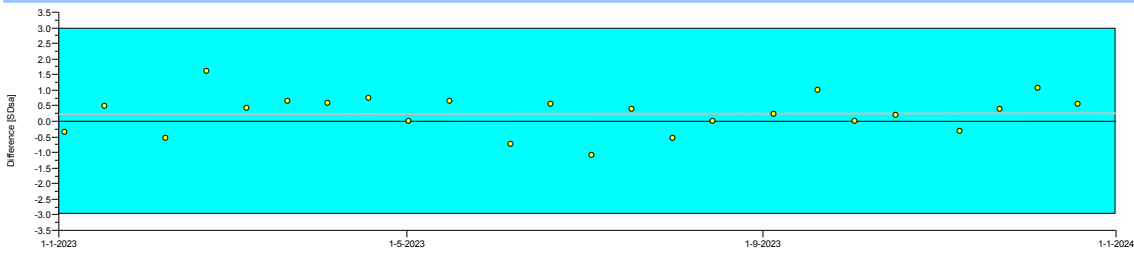
External



ALAT

U/L

External

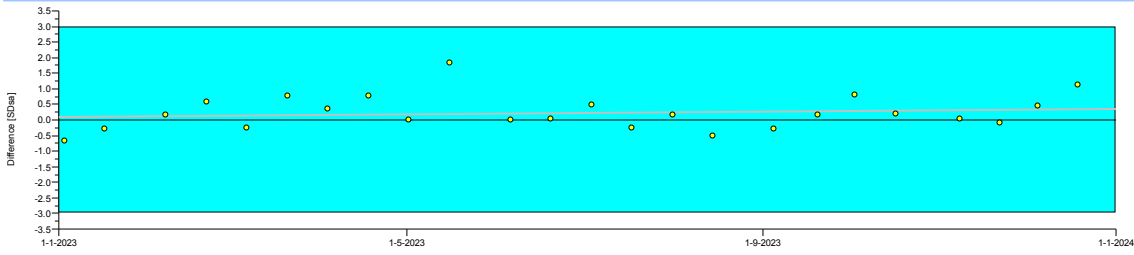


Clinical Chemistry, blood 2023.4

LD

U/L

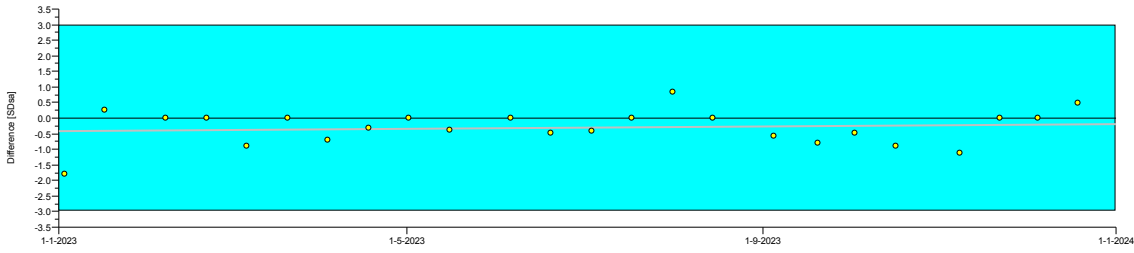
External



Gamma-GT

U/L

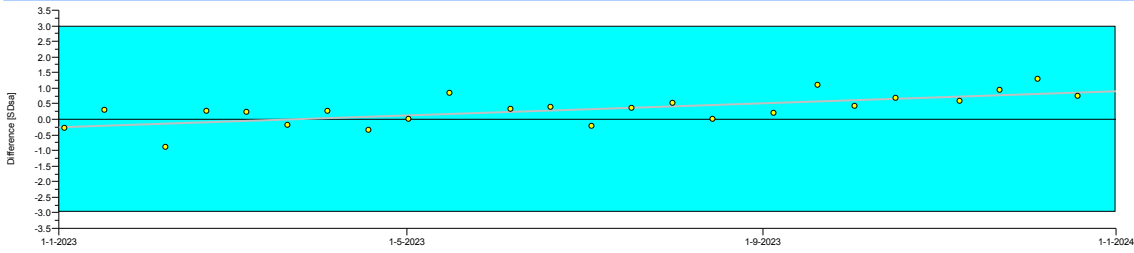
External



CK

U/L

External

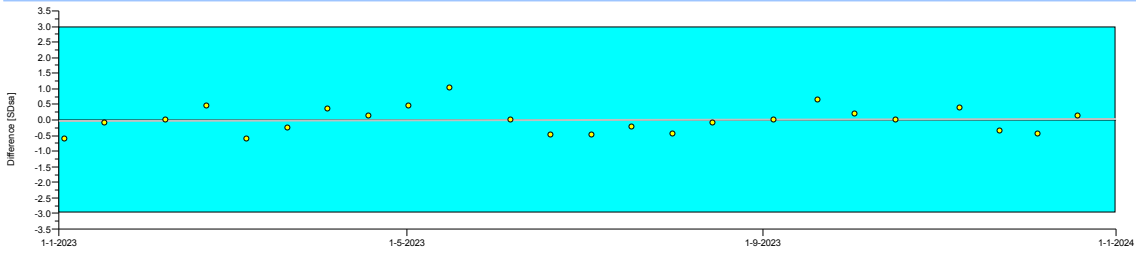


Clinical Chemistry, blood 2023.4

Amylase

U/L

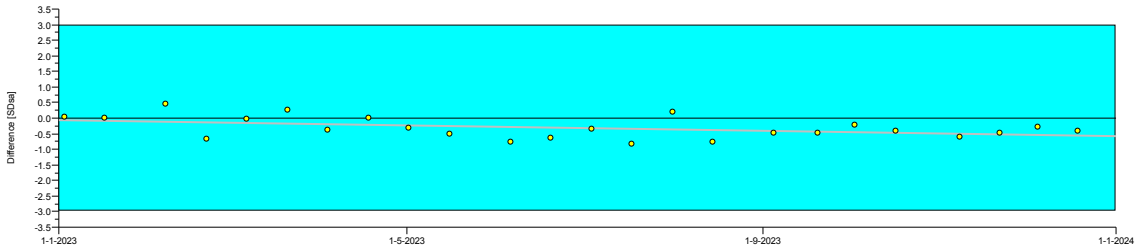
External



Lipase

U/L

External



eGFR (F, 55, white)

mL/min/{1.73_m2}

External

