Burtom Tibbi Tahill Laboratuvari

MONTHLY CLINICAL CHEMISTRY

CYCLE 12 SAMPLE 4

Explanation of codes used in this report

R - Results removed due to reconstitution error
N - No result returned
C - Result corrected

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RIQAS

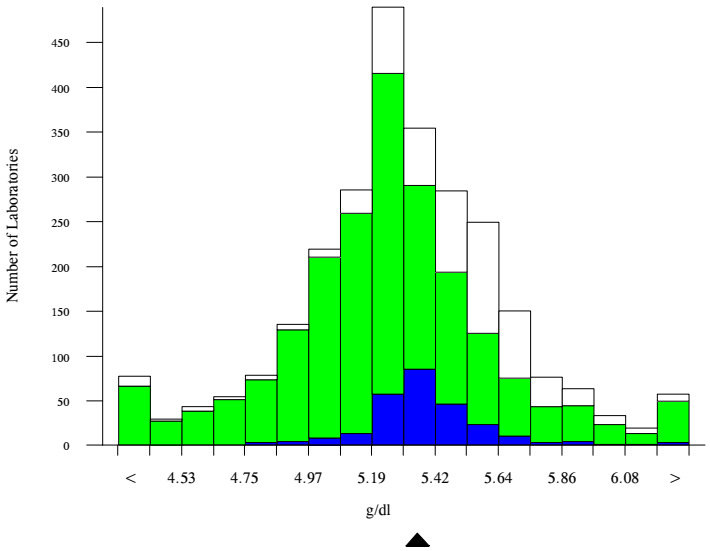
UKAS PROFICIENCY TESTING
0010

Albumin, g/dl

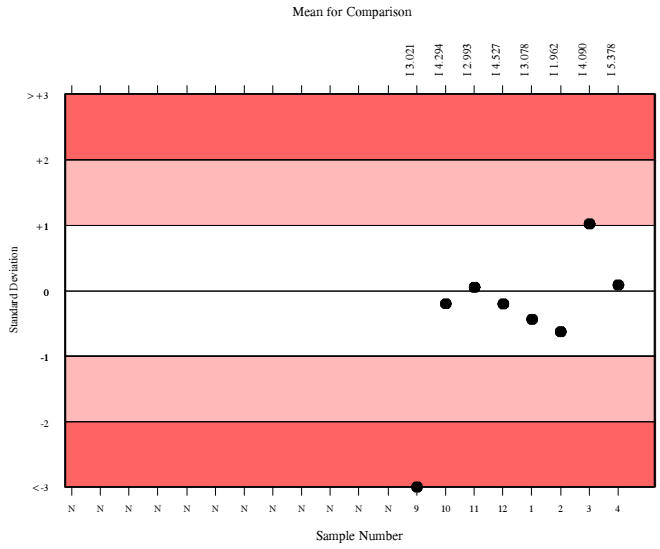
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2500	5.309	5.6	0.01	0.27	199
Bromocresol Green	1966	5.242	5.6	0.01	0.26	159
Roche Cobas c501/502 e601/602	239	5.378	2.7	0.01	0.27	22

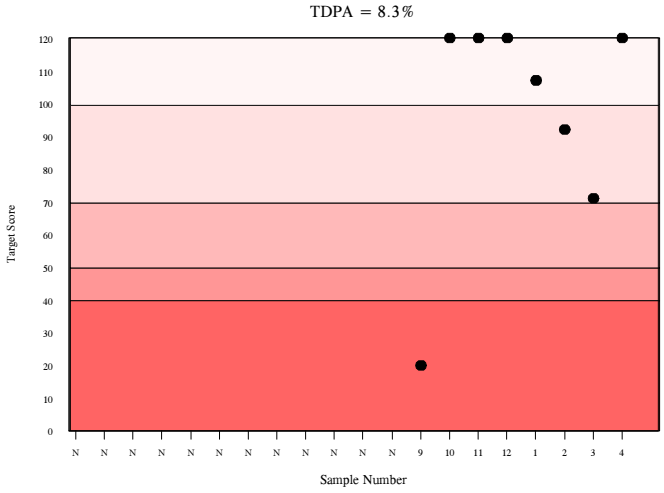
Your Result	5.400	SDI	0.08
		RMSDI	Too Few
Mean for Comparison	5.378	TS	120
		RMTS	Too Few
		%DEV	0.4
		RM%DEV	Too Few

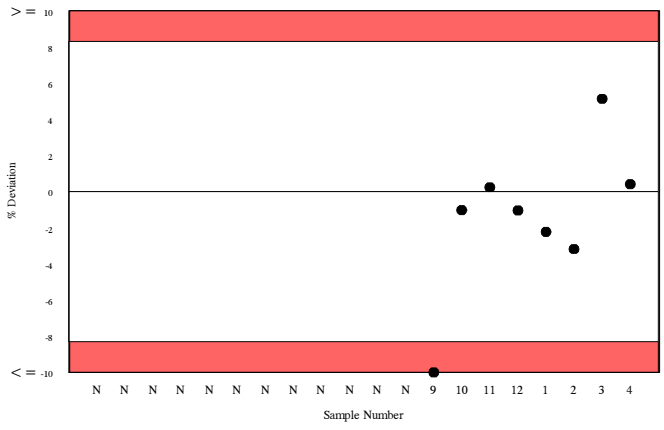
Acceptable limits derived from Biological Variation	4.07%
Acceptable limits of performance for RIQAS	8.30%

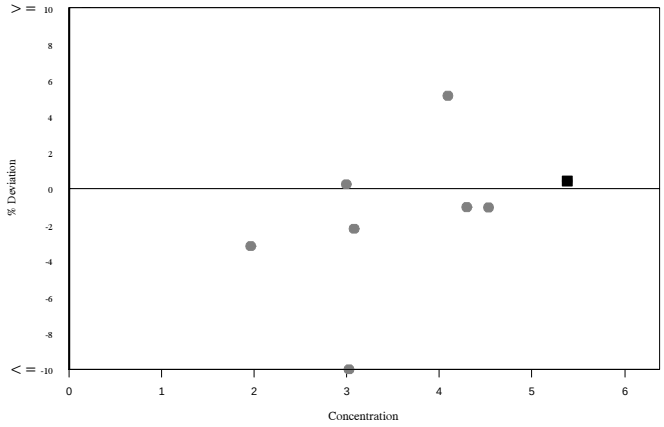


Method	N	Mean	CV%	U_m
Bromocresol Green	1966	5.242	5.6	0.01
Bromocresol Purple	371	5.548	3.6	0.01
Ortho Vitros MicroSlide Systems	114	5.466	2.9	0.02
Turbidimetric Assays	18	5.194	4.1	0.06
Agappe - Bromocresol Green	16	4.810	6.0	0.09
Vitros DT60/DT60 II/DTSC II	7	5.340	9.4	0.24
Other Dry Chemistry	3	5.553	7.1	0.28









RIQAS

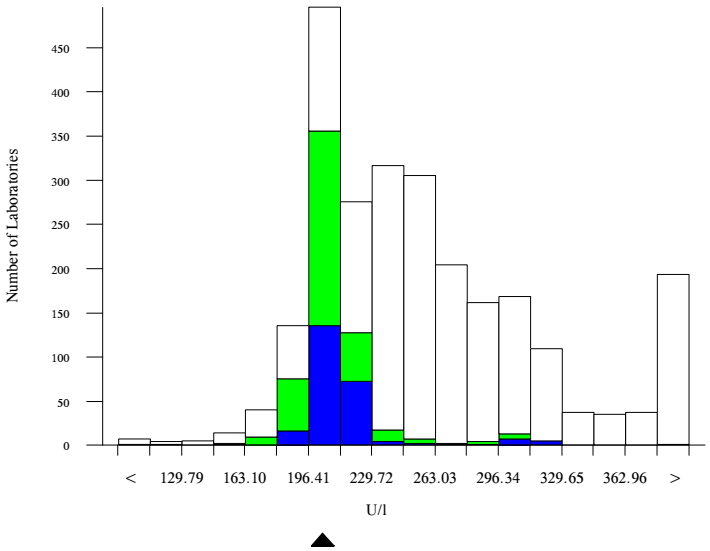
UKAS PROFICIENCY TESTING 0010

Alkaline Phosphatase, U/l @ 37°C

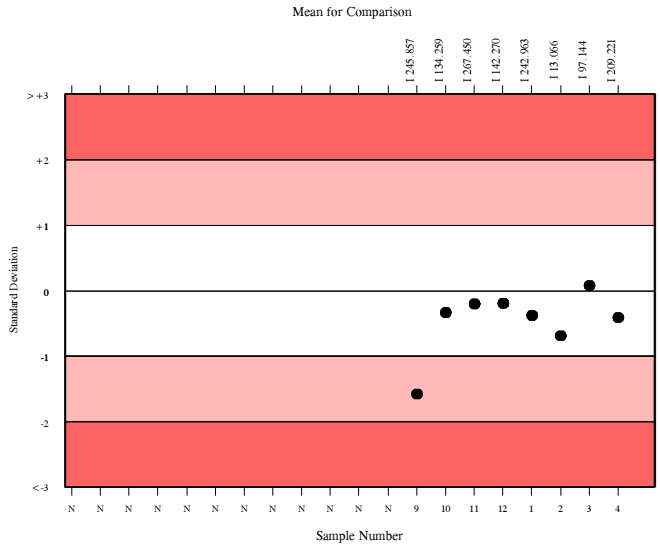
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2324	246.376	18.0	1.15	29.06	221
Roche AMP buffer IFCC	551	206.832	4.4	0.48	24.39	70
Roche Cobas c501/502 e601/602	218	209.221	3.7	0.66	24.68	27

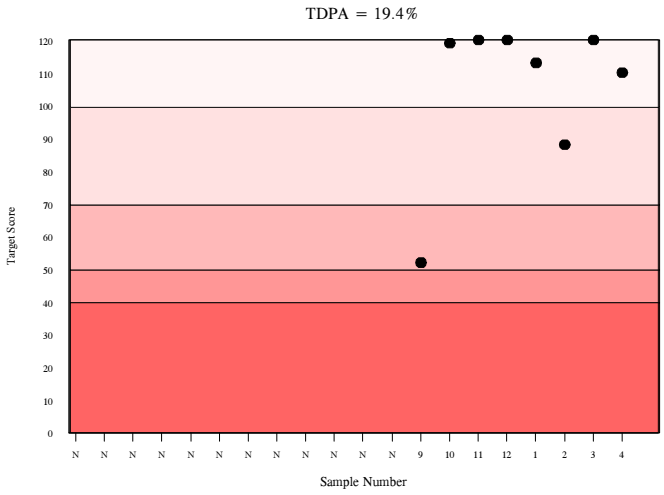
Your Result	199.000	SDI	-0.41
		RMSDI	Too Few
Mean for Comparison	209.221	TS	110
		RMTS	Too Few
		%DEV	-4.9
		RM%DEV	Too Few

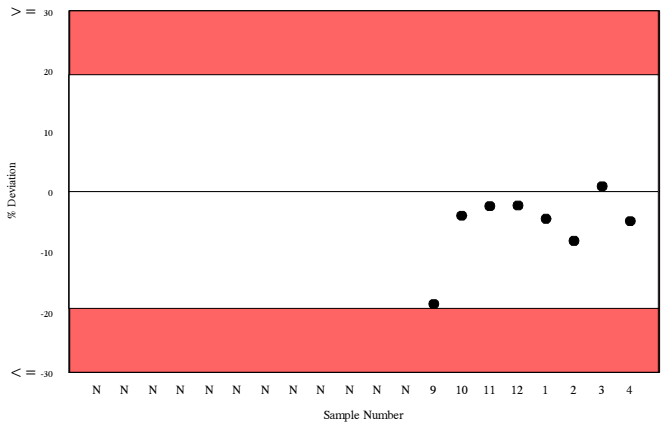
Acceptable limits derived from Biological Variation	12.04%
Acceptable limits of performance for RIQAS	19.40%

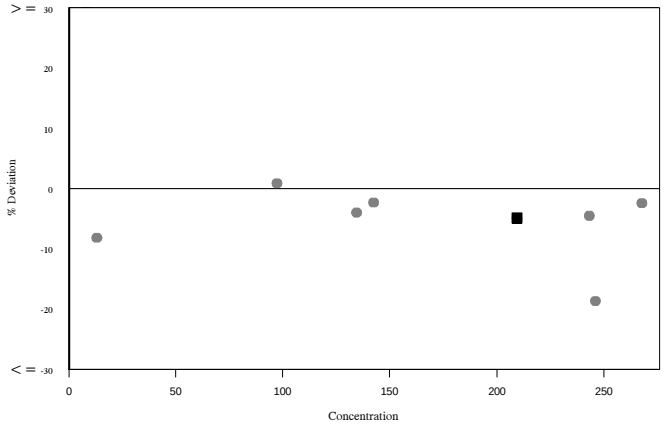


Method	N	Mean	CV%	U_m
AMP, optimised to IFCC	928	266.840	12.2	1.34
Roche AMP buffer IFCC	551	206.832	4.4	0.48
Diethanolamine buffer, DEA	273	366.481	17.4	4.81
AMP, non-optimised	142	250.699	10.7	2.81
Dade Dimension, AMP buffer	148	228.850	10.6	2.48
Ortho Vitros MicroSlide Systems	124	208.667	5.6	1.31
Other AMP kits	67	257.258	9.7	3.80
Agappe - DGKC-SCE	28	310.535	14.5	10.62
AMP, optimised to NVKC/SFBC	17	285.771	16.6	14.34
Colorimetric	12	227.996	15.0	12.32
Vitros DT60/DT60 II/DTSC II	12	183.333	4.8	3.14
Other Dry Chemistry	5	216.600	16.8	20.31
Tris/carbonate buffer	5	244.860	14.3	19.61
AMP, reduced interference	4	275.925	3.3	5.62









RIQAS

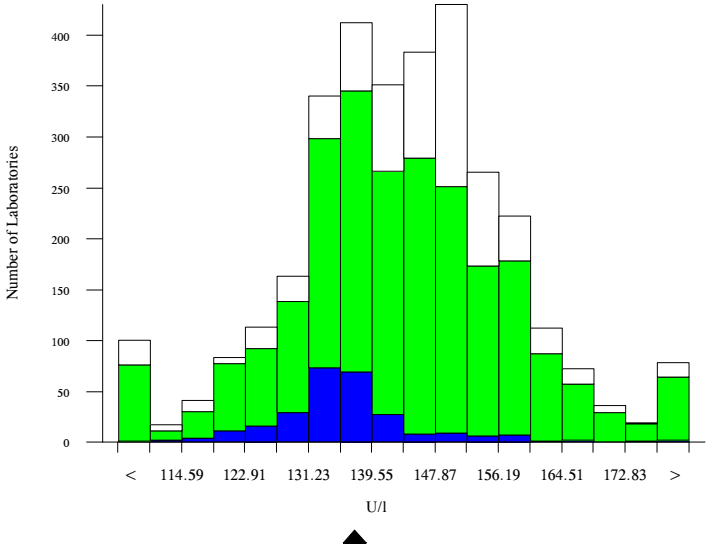
UKAS PROFICIENCY TESTING 0010

ALT (GPT), U/l @ 37°C

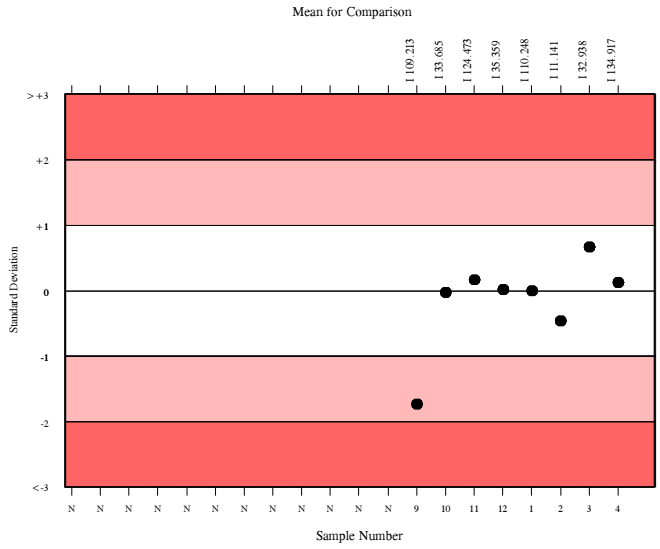
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2989	143.716	7.7	0.25	12.23	251
Tris buffer without P5P	2286	142.817	8.1	0.30	12.16	185
Roche Cobas c501/502 e601/602	240	134.917	4.4	0.47	11.48	28

Your Result	136.300	SDI	0.12
		RMSDI	Too Few
Mean for Comparison	134.917	TS	120
		RMTS	Too Few
		%DEV	1.0
		RM%DEV	Too Few

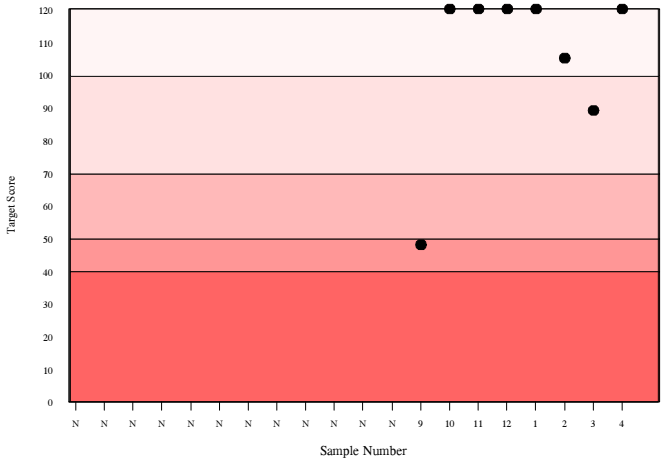
Acceptable limits derived from Biological Variation	27.48%
Acceptable limits of performance for RIQAS	14.00%

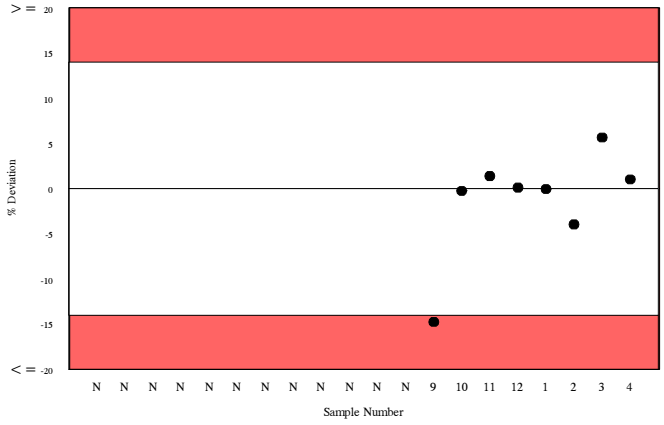


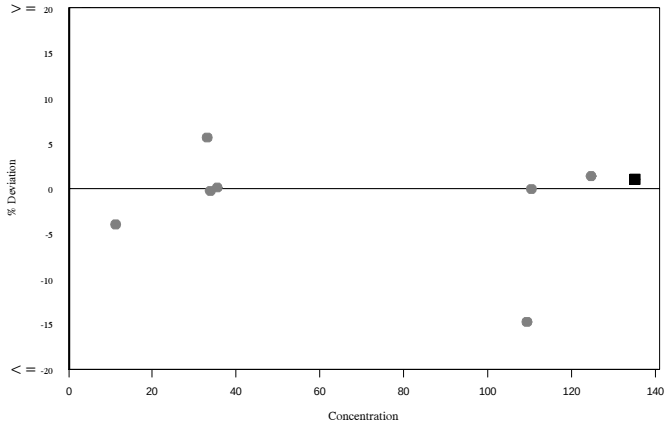
Method	N	Mean	CV%	U_m
Tris buffer without P5P	2286	142.817	8.1	0.30
Tris buffer with P5P	315	147.715	5.3	0.55
Ortho Vitros MicroSlide Systems	132	145.285	4.0	0.63
Siemens/Dade,standard nonIFCC correlated	126	150.400	4.5	0.75
Agappe - IFCC	44	136.833	13.1	3.39
Colorimetric	19	126.630	20.2	7.34
Phosphate buffer, DGKC	22	145.571	8.4	3.24
Tris buffer, SCE	13	130.162	4.6	2.08
Vitros DT60/DT60 II/DTSC II	12	148.100	12.1	6.49
Other Dry Chemistry	8	133.750	7.4	4.39
Tris buffer with P5P, NVKC	5	137.312	9.0	6.88



TDPA = 14%







RIQAS

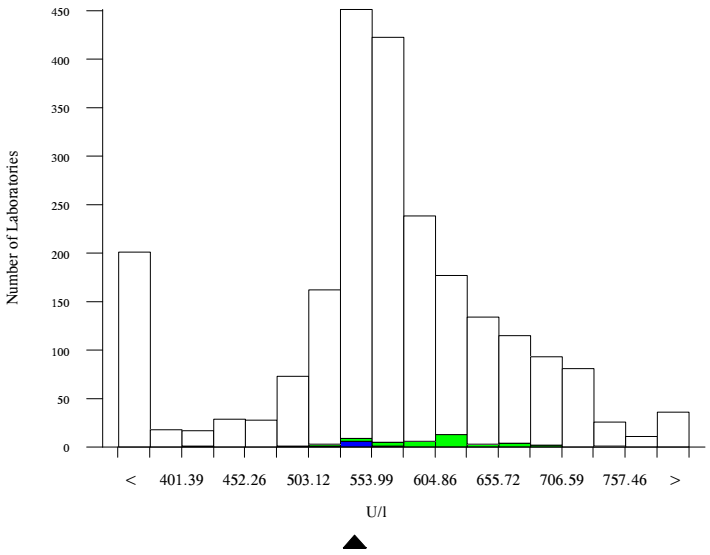
UKAS PROFICIENCY TESTING 0010

Amylase, Total, U/l @ 37°C

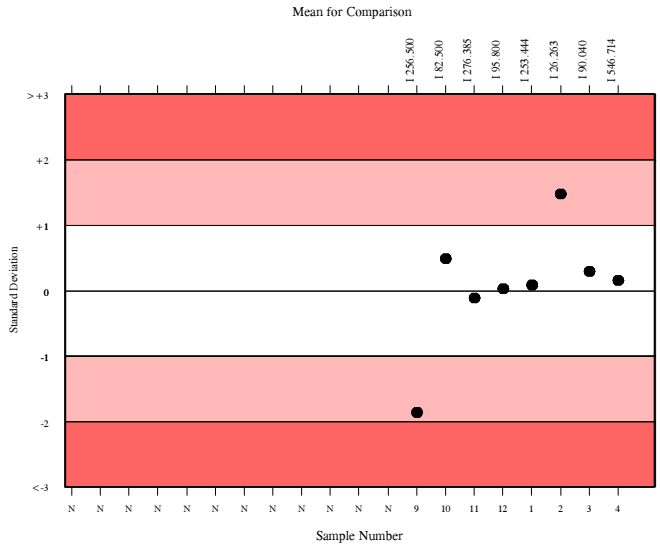
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2073	579.429	11.7	1.86	43.33	241
Randox liquid stable pNPG7	46	594.111	8.3	9.11	44.43	2
Roche Cobas c501/502 e601/602	7	546.714	1.2	3.22	40.88	1

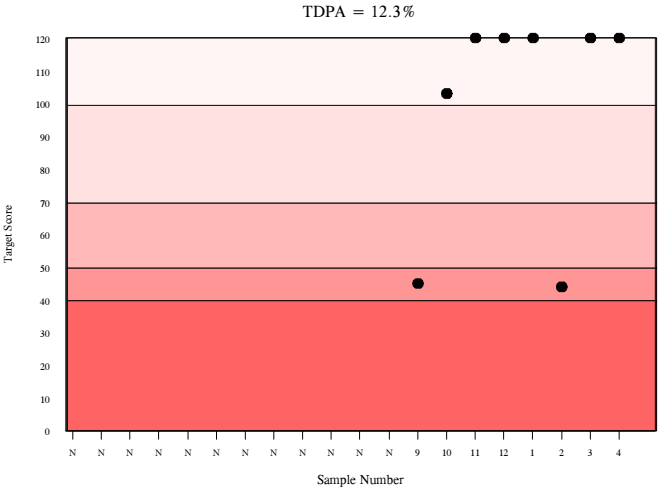
▲ Your Result	553.000	SDI	0.15
		RMSDI	Too Few
Mean for Comparison	546.714	TS	120
		RMTS	Too Few
		%DEV	1.1
		RM%DEV	Too Few

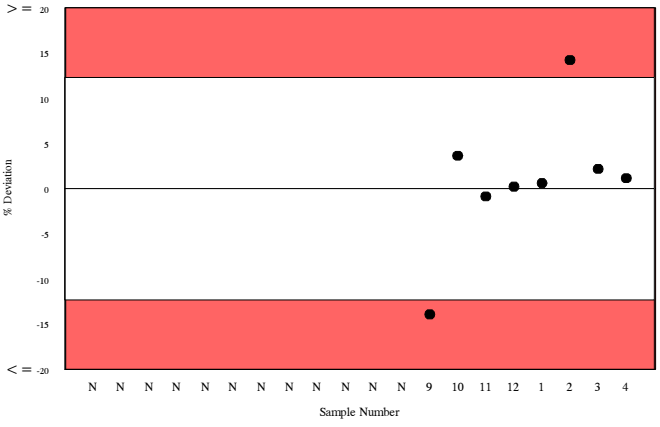
Acceptable limits derived from Biological Variation	14.6%
Acceptable limits of performance for RIQAS	12.30%

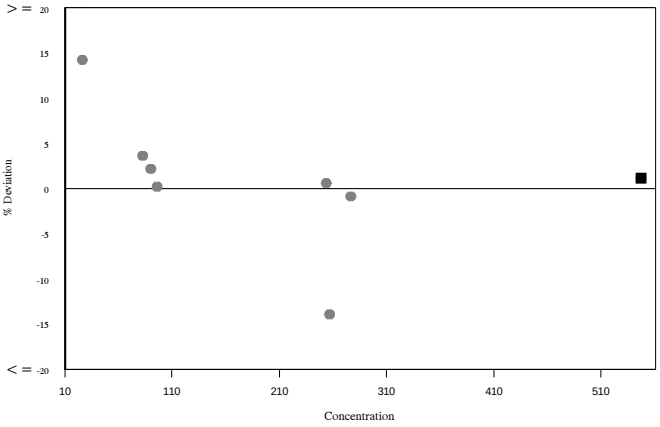


Method	N	Mean	CV%	U_m
Other 2-chloro-pNPG3	525	589.156	10.6	3.41
Roche liquid stable pNPG7	400	546.276	2.6	0.89
Dade Behring 2-chloro-pNPG3	186	693.029	3.5	2.25
Beckman Olympus - blocked pNPG7	141	566.087	4.3	2.59
Ortho Vitros MicroSlide Systems	104	325.256	3.4	1.36
Other - blocked pNPG7	100	541.974	8.6	5.83
Beckman Synchron AMY7	74	591.150	3.9	3.36
Randox - Ethylidene pNPG7	61	562.266	9.9	8.93
Bayer - blocked pNPG7	59	573.053	3.4	3.20
Other non blocked pNPG7	52	560.047	6.1	5.94
Saccharogenic	48	316.630	21.3	12.18
Randox liquid stable pNPG7	46	594.111	8.3	9.11
Other 2-chloro-pNP-linked sub.	45	609.782	11.2	12.68
pNP Maltotrioside substrates	37	603.467	9.3	11.52
Roche Integra 2-chloro-pNPG7	31	552.651	2.8	3.50
Human - blocked pNPG7	21	611.066	15.5	25.76
Agappe - CNPG3	20	599.547	5.9	9.86
I.L. - blocked pNPG7	20	603.998	4.7	7.95
bioMerieux 2-chloro-pNPG3	14	561.442	4.3	8.02
Beckman maltotetraose	13	580.160	5.5	11.05
Other Roche 2-chloro-pNPG7	15	554.183	3.2	5.69









RIQAS

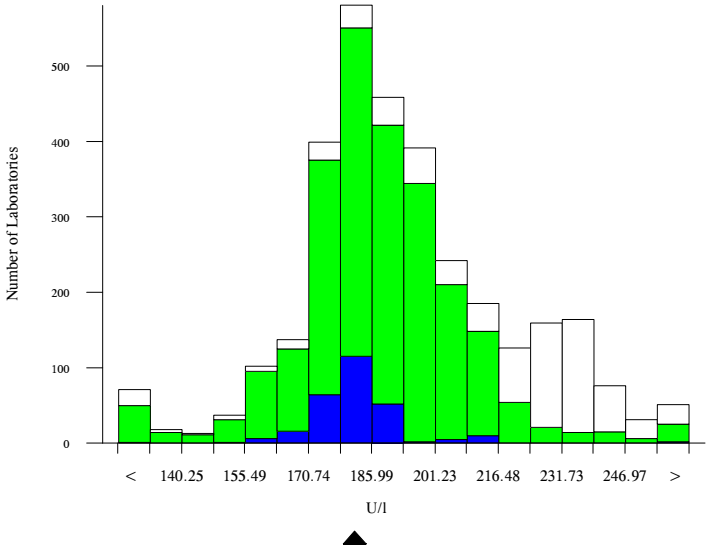
UKAS PROFICIENCY TESTING 0010

AST (GOT), U/l @ 37°C

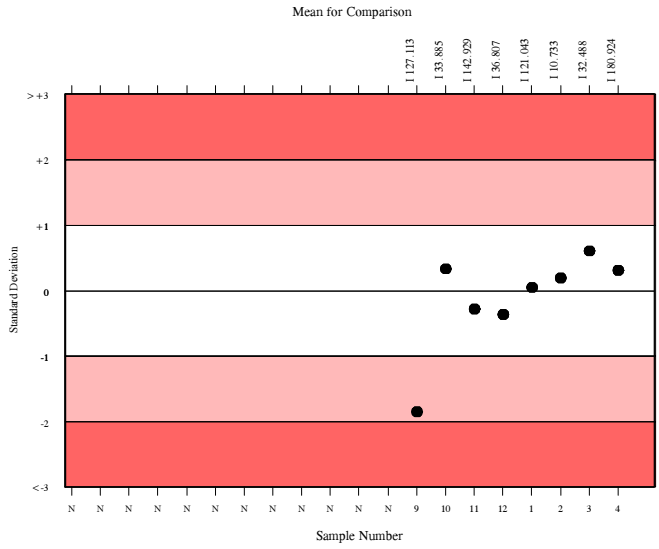
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	3008	193.615	10.5	0.46	15.89	234
Tris buffer without P5P	2308	187.236	7.3	0.36	15.37	203
Roche Cobas c501/502 e601/602	249	180.924	3.6	0.51	14.85	25

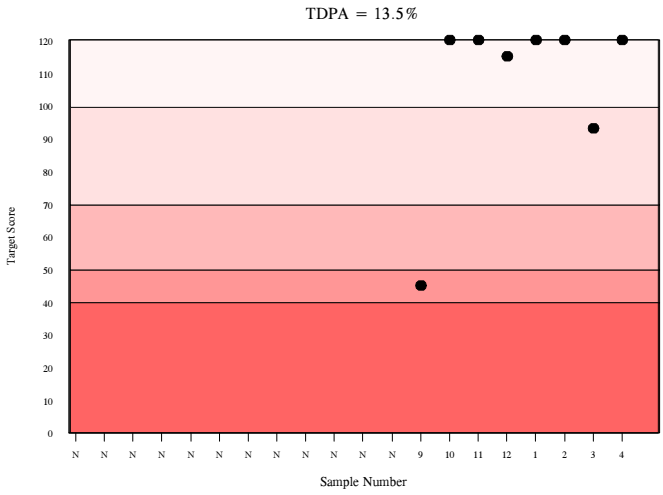
Your Result	185.500	SDI	0.31
		RMSDI	Too Few
Mean for Comparison	180.924	TS	120
		RMTS	Too Few
		%DEV	2.5
		RM%DEV	Too Few

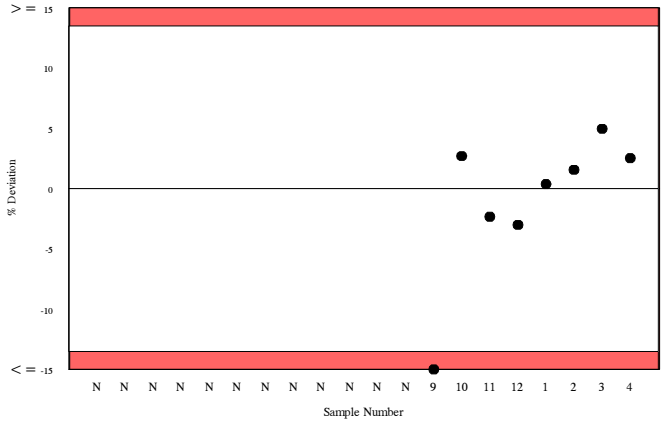
Acceptable limits derived from Biological Variation	16.69%
Acceptable limits of performance for RIQAS	13.50%

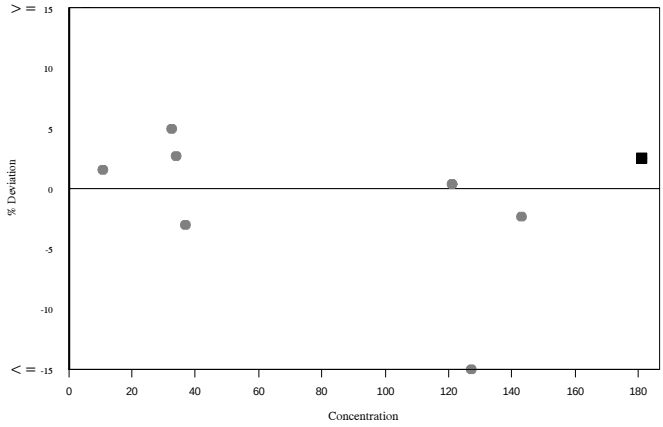


Method	N	Mean	CV%	U_m
Tris buffer without P5P	2308	187.236	7.3	0.36
Tris buffer with P5P	271	222.594	8.0	1.36
Siemens/Dade, standard non IFCC corr.	138	228.711	3.9	0.96
Ortho Vitros MicroSlide visible sl.	128	233.645	3.4	0.88
Agappe - IFCC	43	188.686	6.7	2.41
Colorimetric	21	151.212	29.0	11.97
Phosphate buffer, DGKC	17	188.108	7.9	4.52
Tris buffer with P5P, NVKC	13	186.754	4.4	2.83
Tris buffer, SCE	13	174.143	2.7	1.63
Vitros DT60/DT60 II/DTSC II	12	271.667	8.9	8.68
Other Dry Chemistry	7	191.286	22.5	20.30









RIQAS

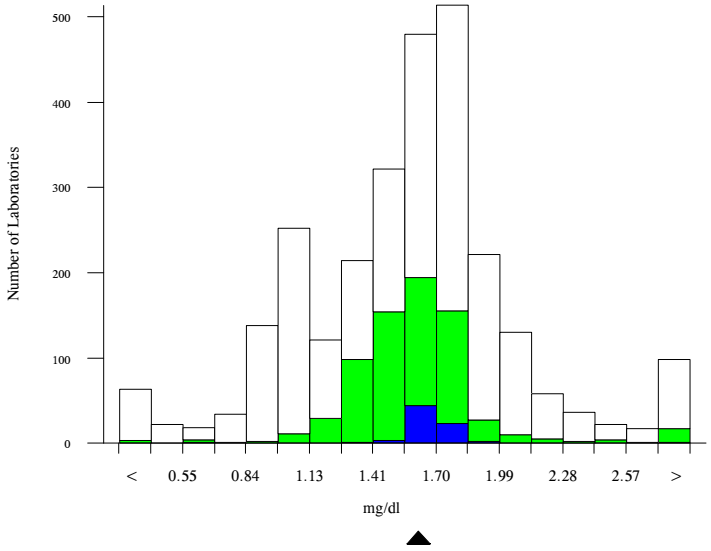
UKAS PROFICIENCY TESTING 0010

Bilirubin, Direct, mg/dl

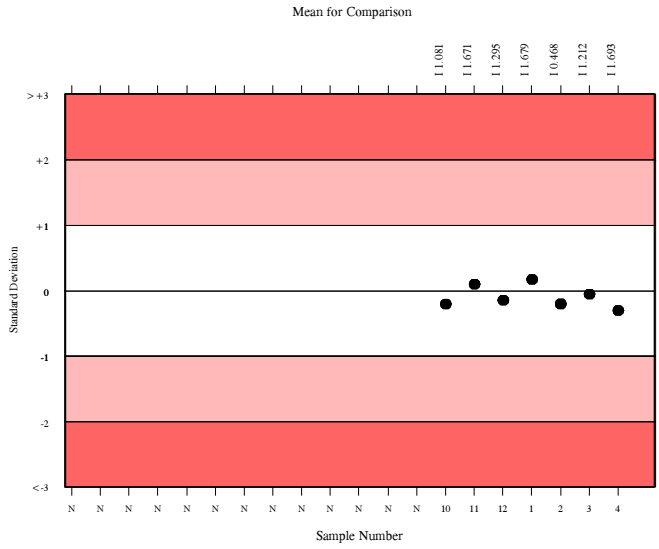
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2595	1.564	24.6	0.01	0.28	165
Dichlorophenyl Diazonium	689	1.592	13.1	0.01	0.29	29
Roche Integra	68	1.693	3.6	0.01	0.30	7

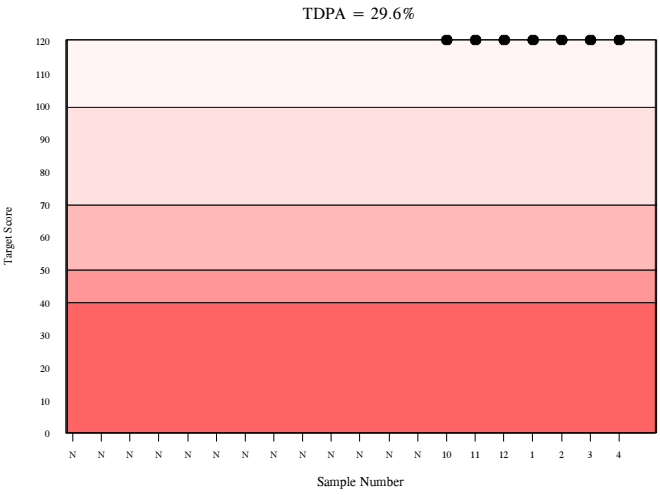
▲ Your Result	1.600	SDI	-0.31
		RMSDI	Too Few
Mean for Comparison	1.693	TS	120
		RMTS	Too Few
		%DEV	-5.5
		RM%DEV	Too Few

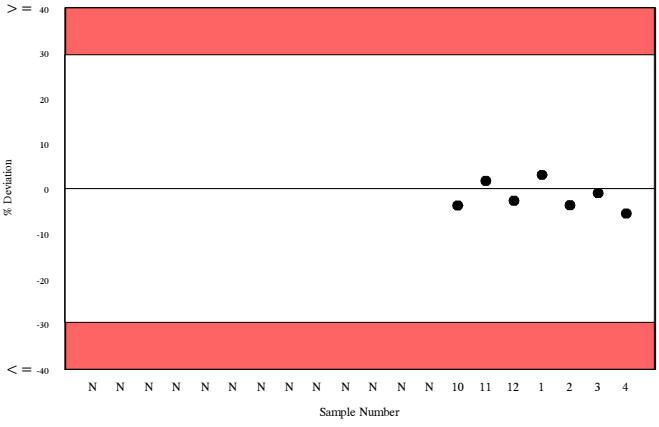
Acceptable limits derived from Biological Variation	44.5%
Acceptable limits of performance for RIQAS	29.60%

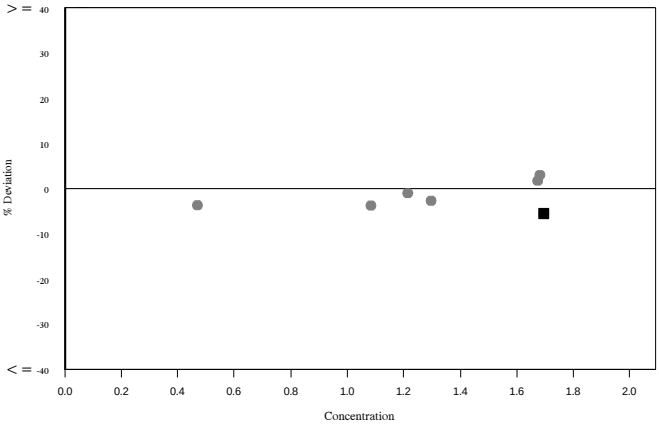


Method	N	Mean	CV%	U_m
Diazo with Sulphanilic Acid	1401	1.528	29.2	0.01
Dichlorophenyl Diazonium	689	1.592	13.1	0.01
Diazo with Dichloroanaline	289	1.694	13.0	0.02
Oxidation to Biliverdin	94	1.890	7.9	0.02
Vitros conjugated from BUBC	66	0.481	43.7	0.03
Roche JG factored	21	1.713	3.6	0.02
Vitros Total Bil - BU	16	0.666	28.0	0.06
Agappe - DIAZO	17	1.736	16.3	0.09
Other Dry Chemistry	5	2.140	29.6	0.35
Roche (US calibrator only)	2	1.700	7.5	0.11









RIQAS

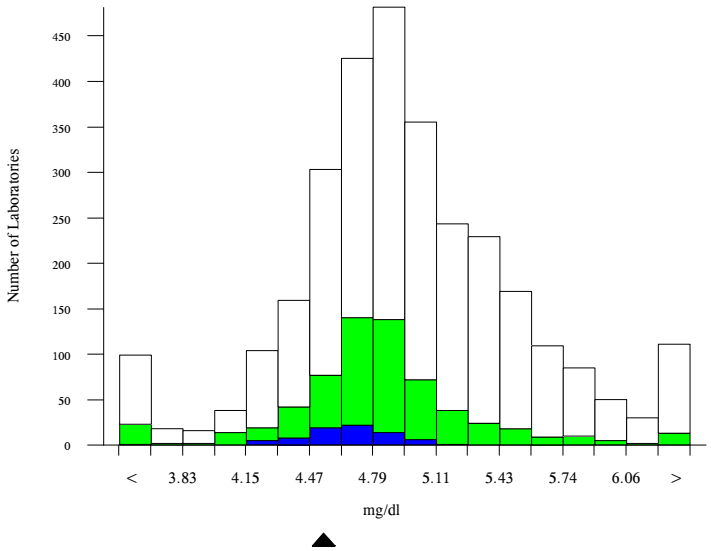
UKAS PROFICIENCY TESTING 0010

Bilirubin, Total, mg/dl

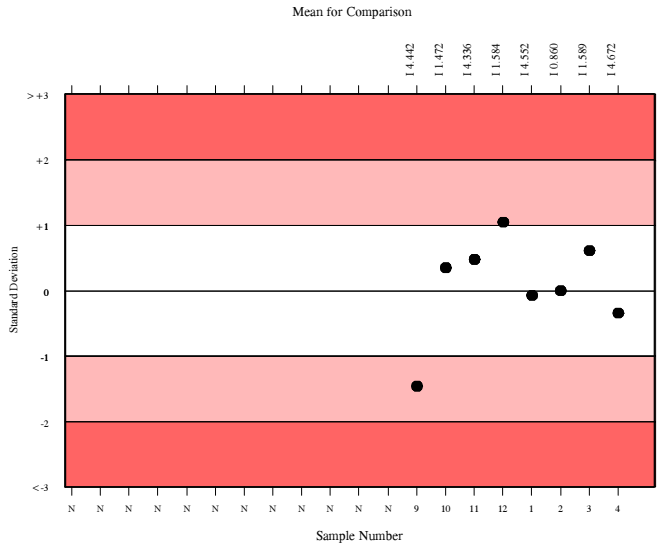
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2763	4.952	8.6	0.01	0.47	263
Dichlorophenyl Diazonium	582	4.803	6.3	0.02	0.45	67
Roche Cobas c501/502 e601/602	68	4.672	3.7	0.03	0.44	8

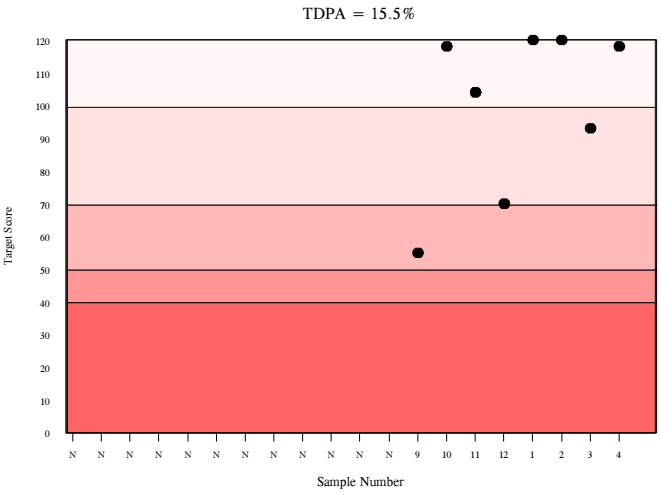
▲ Your Result	4.520	SDI	-0.35
		RMSDI	Too Few
Mean for Comparison	4.672	TS	118
		RMTS	Too Few
		%DEV	-3.3
		RM%DEV	Too Few

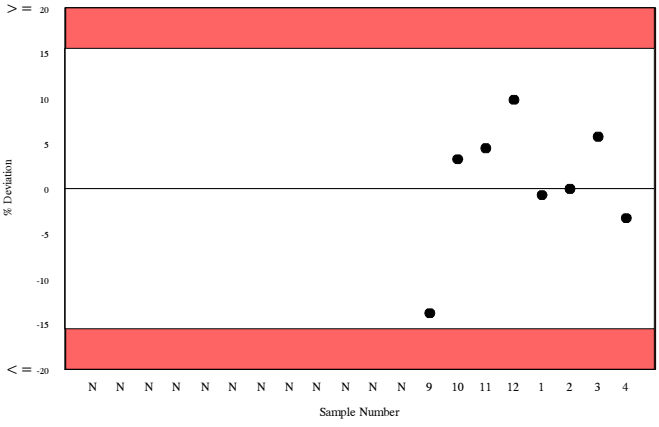
Acceptable limits derived from Biological Variation	26.94%
Acceptable limits of performance for RIQAS	15.50%

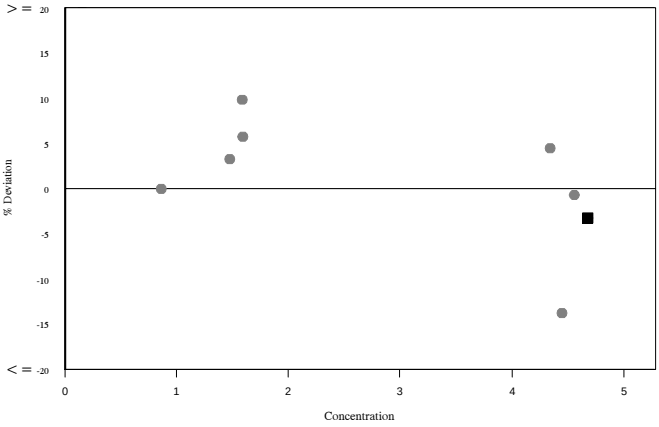


Method	N	Mean	CV%	U_m
Diazo with Sulphanilic Acid	1303	5.063	9.1	0.02
Dichlorophenyl Diazonium	582	4.803	6.3	0.02
Diazonium ion	324	4.758	5.8	0.02
Diazo with Dichloroaniline	241	5.047	8.2	0.03
Oxidation to Biliverdin	106	5.433	4.9	0.03
Ortho Vitros MicroSlide System Total Bil	96	4.592	4.6	0.03
Ortho Vitros MicroSlide Total BUBC	24	4.576	4.7	0.06
Nitrobenzenediazonium Salt	25	4.904	9.0	0.11
Agappe - TAB	8	4.805	5.6	0.12
Other Dry Chemistry	9	4.584	10.6	0.20
Agappe - DMSO	7	5.070	17.6	0.42
Vitros DT60/DT60 II Total Bil	7	4.157	11.3	0.22
No longer in use	3	4.837	3.2	0.11
- select -	2	5.580	10.9	0.54









RIQAS

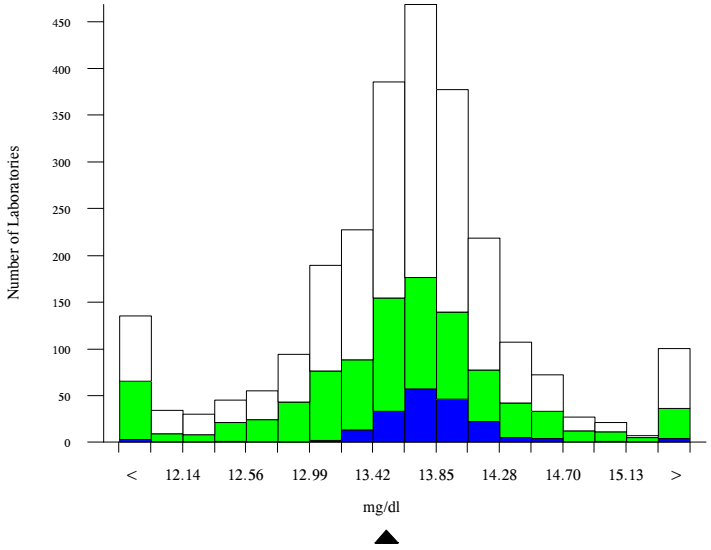
UKAS PROFICIENCY TESTING 0010

Calcium, mg/dl

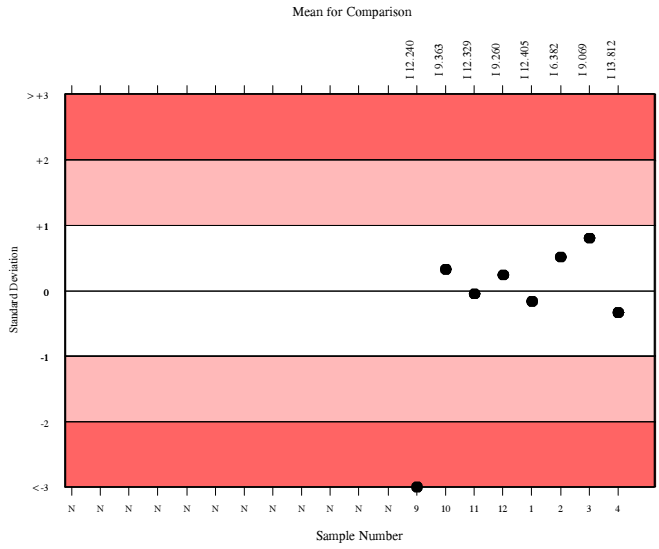
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2375	13.639	4.2	0.01	0.62	220
Cresolphthalein complexone	936	13.635	4.5	0.02	0.62	85
Roche Cobas c501/502 e601/602	173	13.812	1.7	0.02	0.63	18

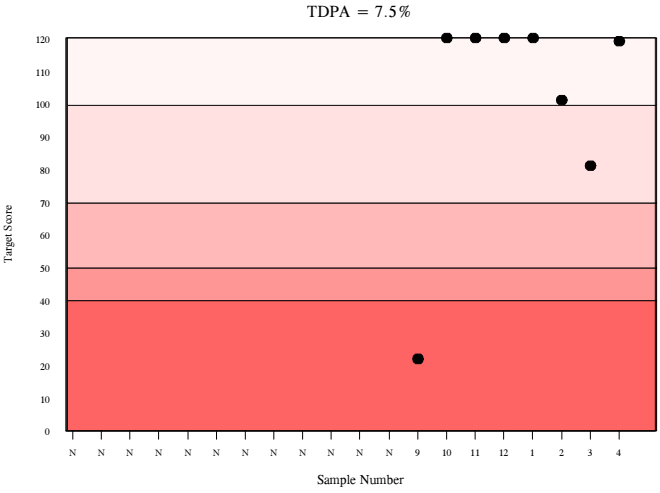
▲ Your Result	13.600	SDI	-0.34
		RMSDI	Too Few
Mean for Comparison	13.812	TS	119
		RMTS	Too Few
		%DEV	-1.5
		RM%DEV	Too Few

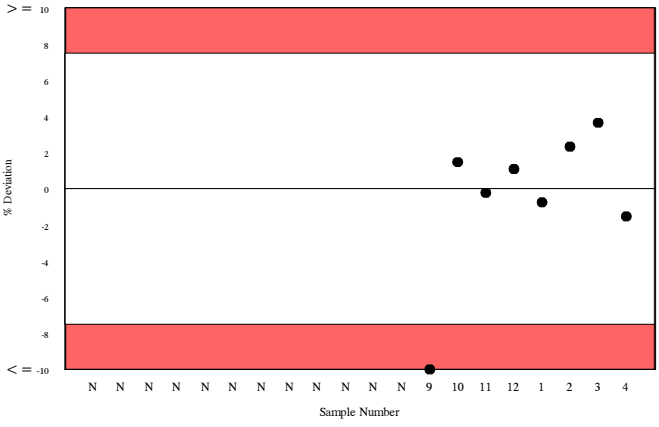
Acceptable limits derived from Biological Variation	2.55%
Acceptable limits of performance for RIQAS	7.50%

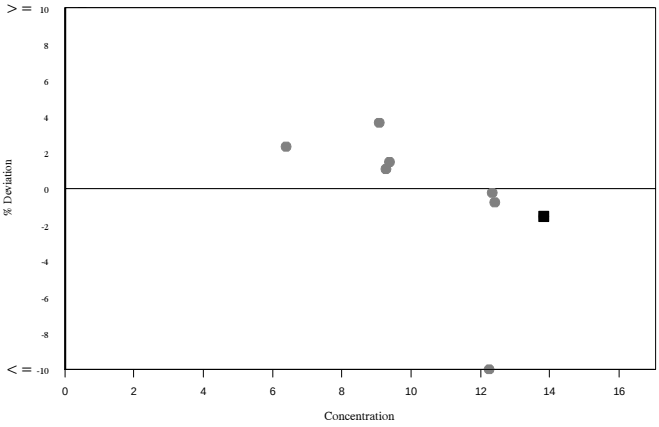


Method	N	Mean	CV%	U_m
Arsenazo	977	13.658	4.4	0.02
Cresolphthalein complexone	936	13.635	4.5	0.02
NM-BAPTA	160	13.830	2.2	0.03
Ortho Vitros MicroSlide Systems	126	13.552	1.8	0.03
Ion selective electrode	101	13.520	3.2	0.05
Methylthymol blue	19	12.791	14.1	0.52
Agappe - ARSENAZO	16	13.446	3.7	0.16
Vitros DT60/DT60 II/DTSC II	13	13.392	3.3	0.16
Agappe - OCPC	6	13.145	7.4	0.49
Phosphonazo	4	13.355	1.8	0.15
Other Dry Chemistry	3	13.667	7.5	0.74
Atomic absorption	2	13.940	1.0	0.12









RIQAS

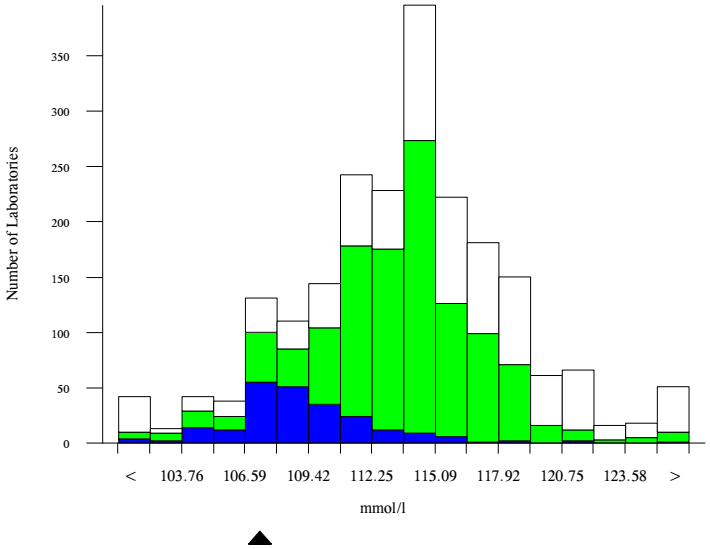
UKAS PROFICIENCY TESTING 0010

Chloride, mmol/l

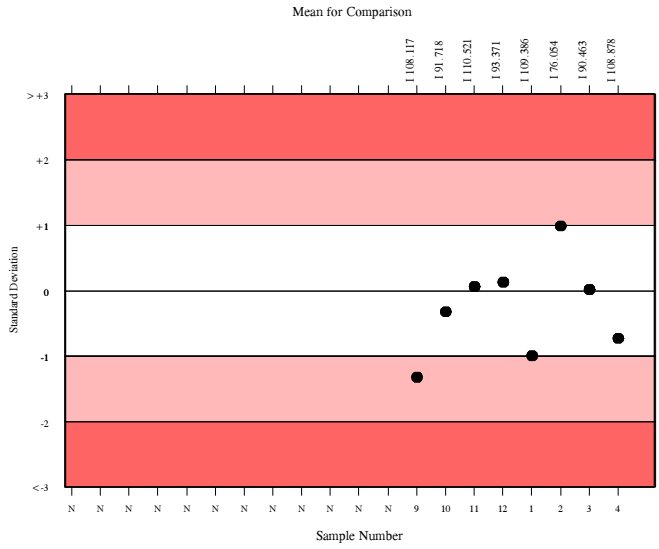
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	1995	113.674	3.3	0.11	3.11	156
ISE, indirect	1246	113.044	2.9	0.11	3.09	84
Roche Cobas c501/502 e601/602	211	108.878	2.1	0.20	2.98	19

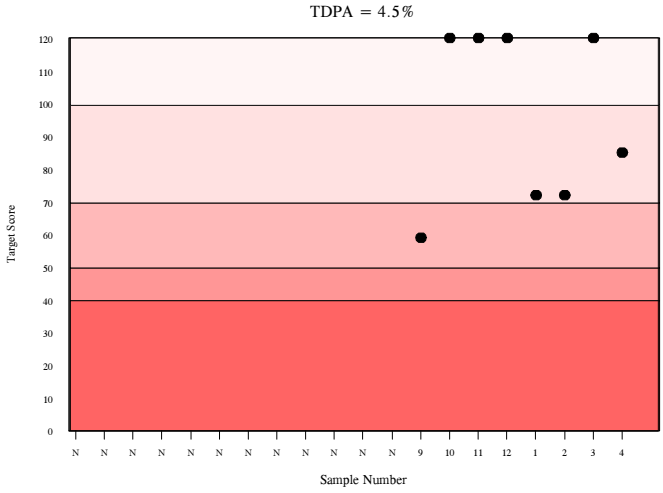
Your Result	106.700	SDI	-0.73
		RMSDI	Too Few
Mean for Comparison	108.878	TS	85
		RMTS	Too Few
		%DEV	-2.0
		RM%DEV	Too Few

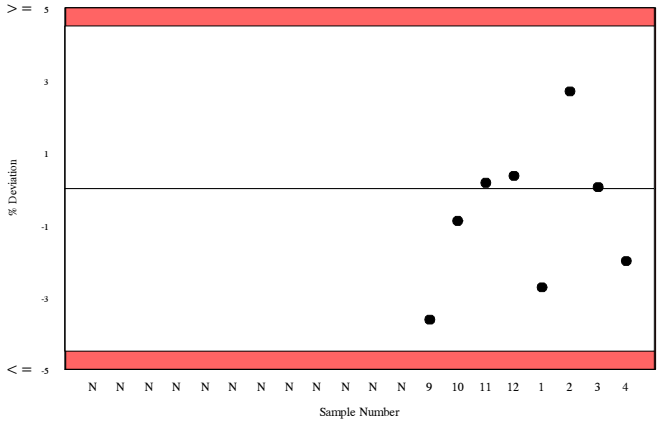
Acceptable limits derived from Biological Variation	1.5%
Acceptable limits of performance for RIQAS	4.50%

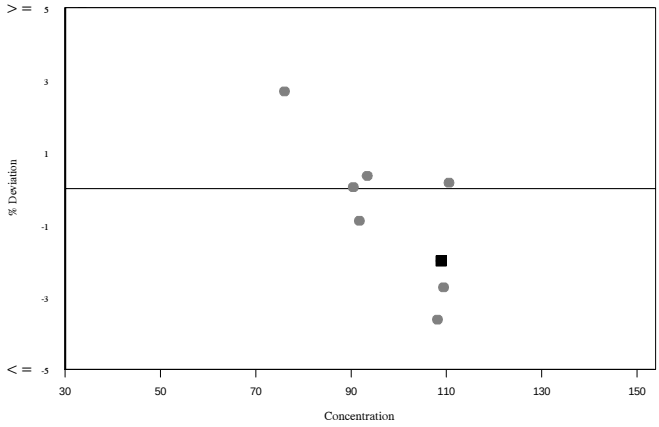


Method	N	Mean	CV%	U_m
ISE, indirect	1246	113.044	2.9	0.11
ISE, direct	508	115.348	3.7	0.24
Colorimetric	110	112.876	5.0	0.67
Ortho Vitros MicroSlide Systems	97	115.746	1.6	0.23
Vitros, DT60/DT60 II/DTE II	17	118.453	4.6	1.66
Optical Fluorescence	9	130.700	2.8	1.51
Agappe - THIOCYANATE	6	106.410	9.6	5.20
Other Dry Chemistry	4	130.675	9.6	7.86









RIQAS

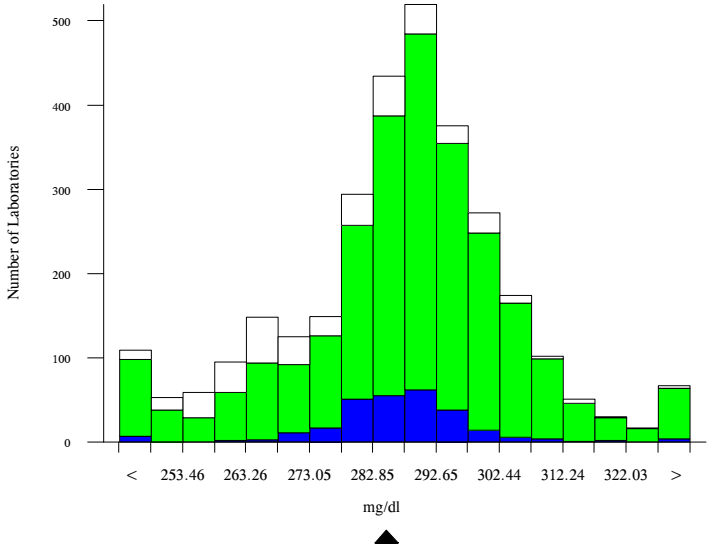
UKAS PROFICIENCY TESTING 0010

Cholesterol, mg/dl

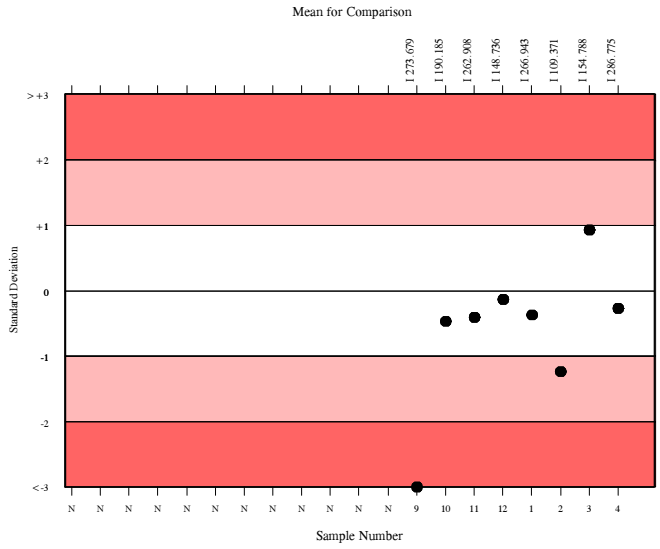
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2802	287.753	4.5	0.31	13.12	275
Cholesterol Oxidase	2437	289.253	4.2	0.30	13.19	252
Roche Cobas c501/502 e601/602	247	286.775	2.5	0.56	13.07	30

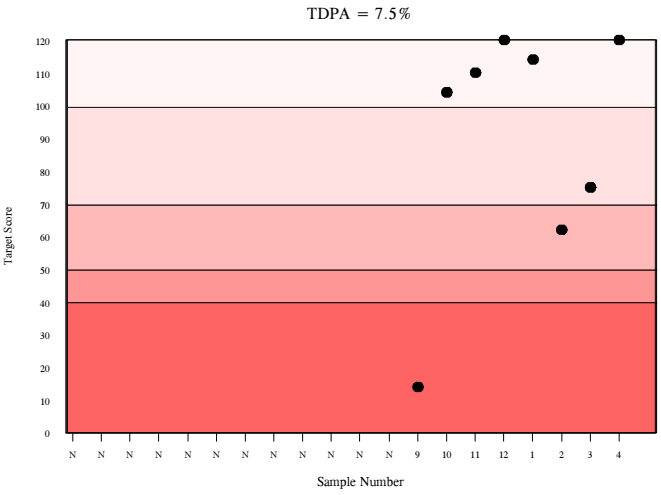
Your Result	283.200	SDI	-0.27
		RMSDI	Too Few
Mean for Comparison	286.775	TS	120
		RMTS	Too Few
		%DEV	-1.2
		RM%DEV	Too Few

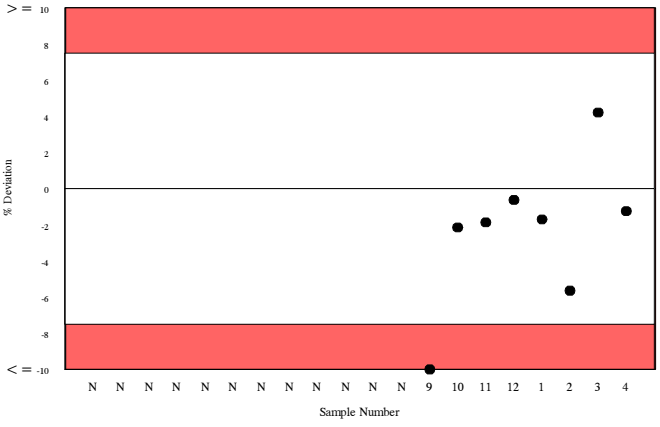
Acceptable limits derived from Biological Variation	9.01%
Acceptable limits of performance for RIQAS	7.50%

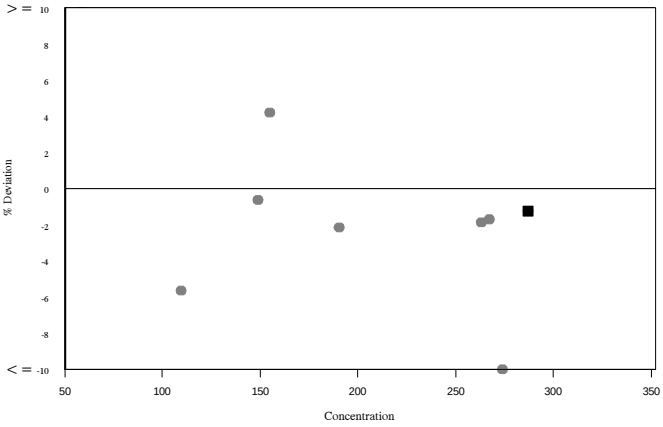


Method	N	Mean	CV%	U_m
Cholesterol Oxidase	2437	289.253	4.2	0.30
Dimension-Dade Behring reagents	168	264.504	2.9	0.74
Ortho Vitros MicroSlide Systems	131	288.361	3.3	1.03
Agappe - CHOD-PAP	31	285.753	3.1	2.02
Vitros DT60/DT60 II/DTSC II	12	289.564	6.5	6.81
Other Dry Chemistry	9	286.957	5.5	6.59









RIQAS

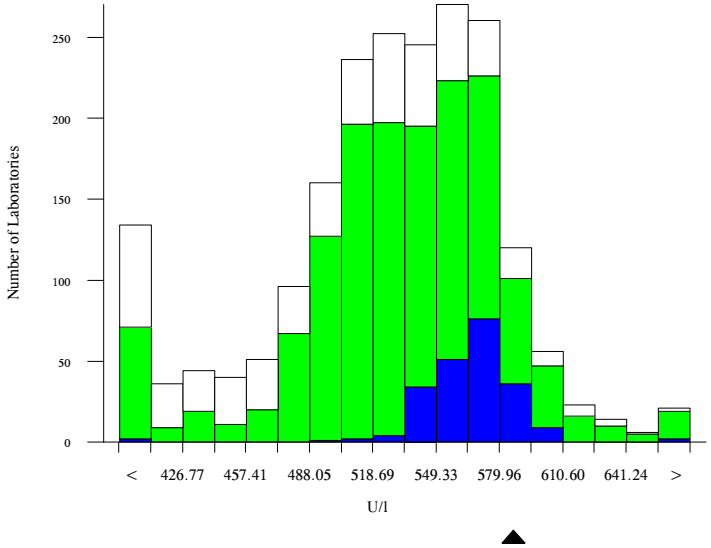
UKAS PROFICIENCY TESTING 0010

CK, Total, U/l @ 37°C

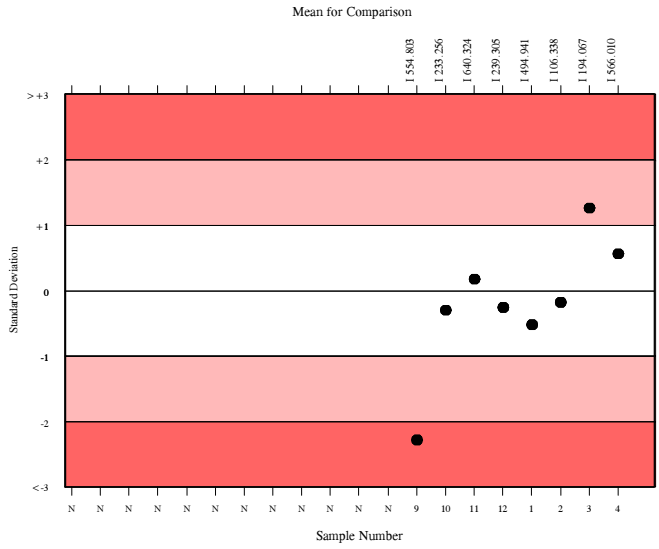
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	1874	534.010	7.7	1.18	37.01	191
CK-NAC (IFCC)	1417	540.255	6.3	1.12	37.44	143
Roche Cobas c501/502 e601/602	203	566.010	2.6	1.32	39.23	14

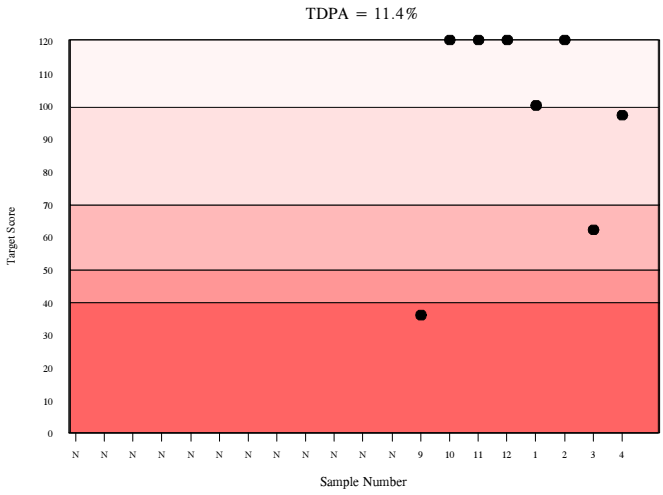
▲ Your Result	588.000	SDI	0.56
		RMSDI	Too Few
Mean for Comparison	566.010	TS	97
		RMTS	Too Few
		%DEV	3.9
		RM%DEV	Too Few

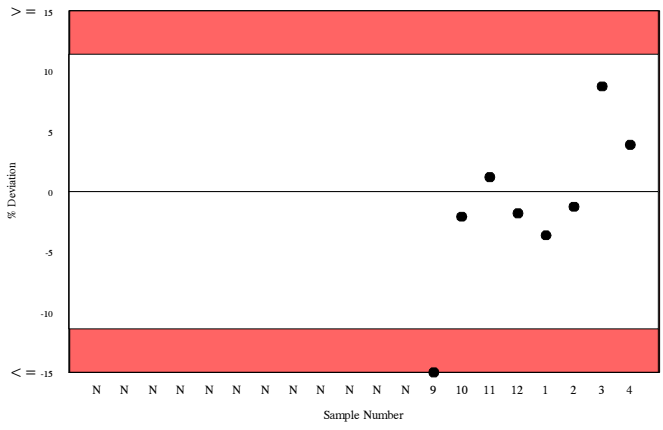
Acceptable limits derived from Biological Variation	30.3%
Acceptable limits of performance for RIQAS	11.40%

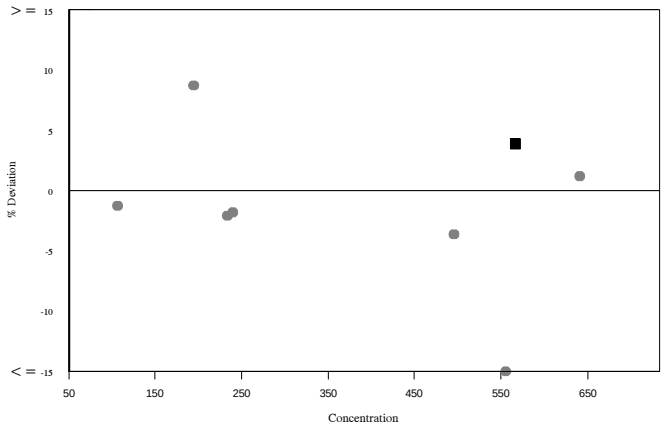


Method	N	Mean	CV%	U_m
CK-NAC (IFCC)	1417	540.255	6.3	1.12
CK-NAC substrate start (DGKC)	151	529.485	6.5	3.49
Ortho Vitros MicroSlide Systems	109	435.278	6.4	3.36
CK-NAC serum start (DGKC)	67	540.340	7.2	5.97
Monothioglycerol	58	536.229	4.2	3.74
Creatine phosphate substrate start	23	527.695	12.3	16.93
Agappe - IFCC/KINETIC	16	449.708	11.5	16.10
Dithioerythritol (DTE), IFCC correlated	15	530.581	8.2	14.04
Vitros DT60/DT60 II/DTSC II	10	379.900	9.2	13.85
Other Dry Chemistry	6	440.833	17.9	40.16
Dithioerythritol (DTE)	2	563.000	7.0	35.00









RIQAS

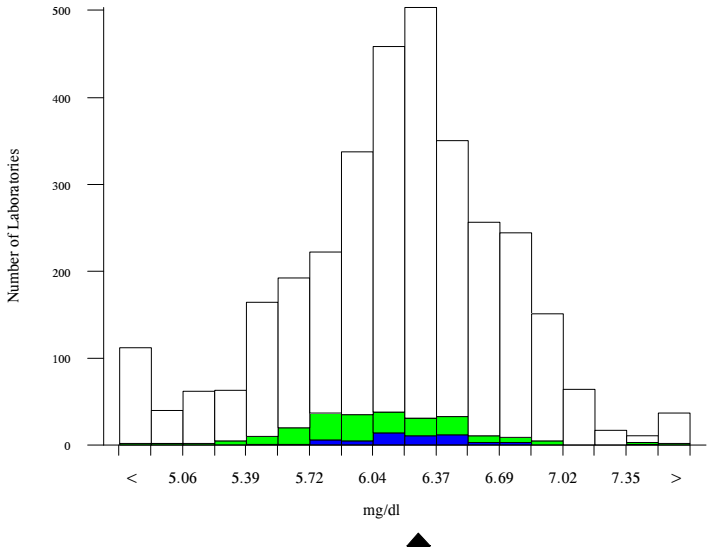
UKAS PROFICIENCY TESTING 0010

Creatinine, mg/dl

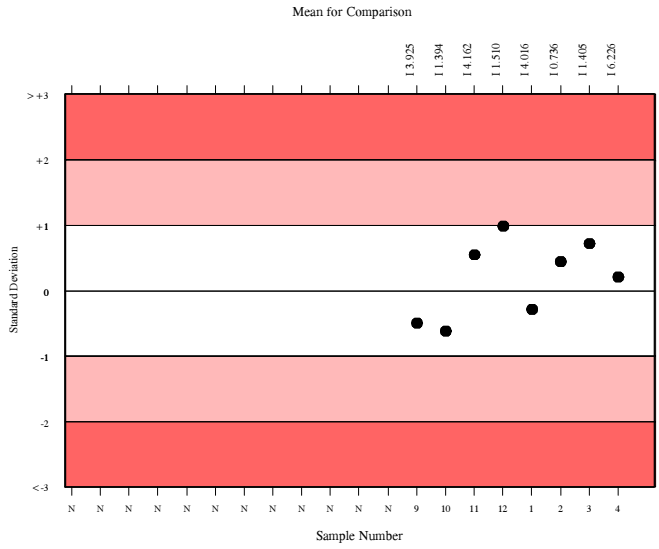
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	3040	6.210	7.0	0.01	0.46	244
Jaffe rate comp. (-18umol/l)	226	6.083	5.4	0.03	0.45	19
Roche Cobas c501/502 e601/602	53	6.226	3.8	0.04	0.46	4

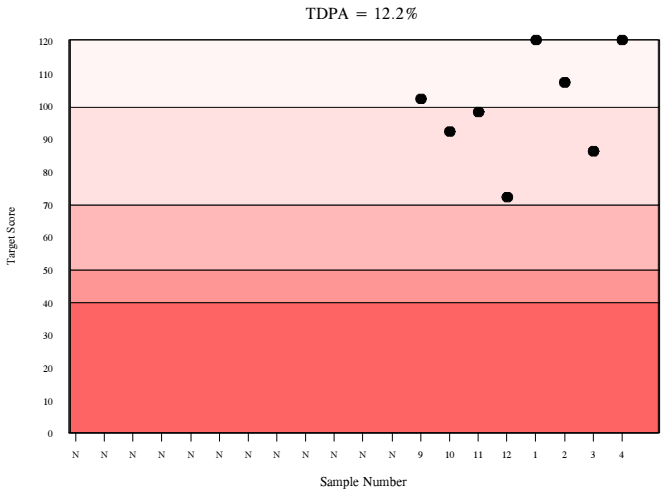
▲ Your Result	6.320	SDI	0.20
		RMSDI	Too Few
Mean for Comparison	6.226	TS	120
		RMTS	Too Few
		%DEV	1.5
		RM%DEV	Too Few

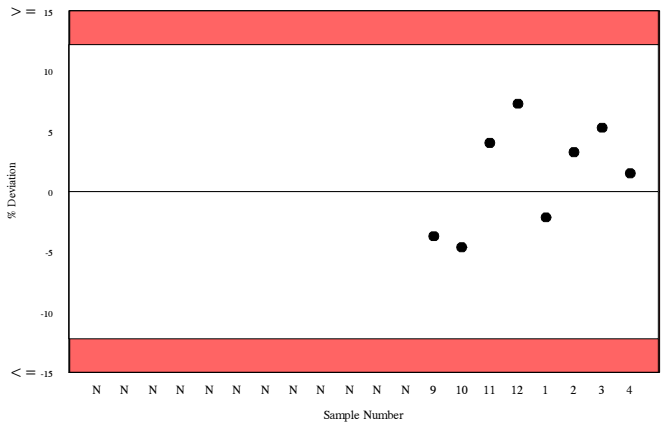
Acceptable limits derived from Biological Variation	8.87%
Acceptable limits of performance for RIQAS	12.20%

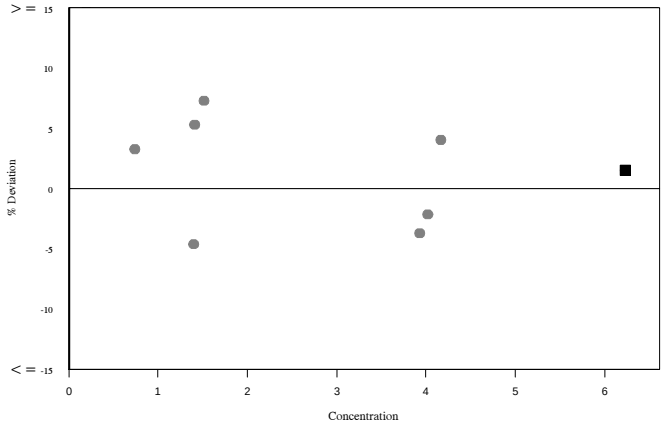


Method	N	Mean	CV%	U_m
Alkaline picrate no deprot.	1192	6.204	8.4	0.02
Jaffe rate blanked	662	6.150	6.9	0.02
Jaffe rate blanked comp. (-26umol/l)	266	6.229	4.0	0.02
Jaffe rate comp. (-18umol/l)	226	6.083	5.4	0.03
Vitros, IDMS traceable	134	6.072	2.9	0.02
Enzymatic UV method	106	6.460	5.0	0.04
Roche Creatinine Plus	108	6.403	4.2	0.03
Creatinine PAP method	78	6.402	3.7	0.03
Alkaline picrate with deprot.	67	6.158	6.4	0.06
IDMS traceable	66	6.460	5.7	0.06
Other enzymatic methods	41	6.639	5.1	0.07
Agappe - JAFFE'S KINETIC	29	5.767	8.5	0.11
Other Dry Chemistry	17	6.180	8.2	0.15
Vitros DT60/DT60 II/DTSC II	16	6.300	7.2	0.14
Agappe - ENZYMATIC	9	6.163	8.6	0.22









RIQAS

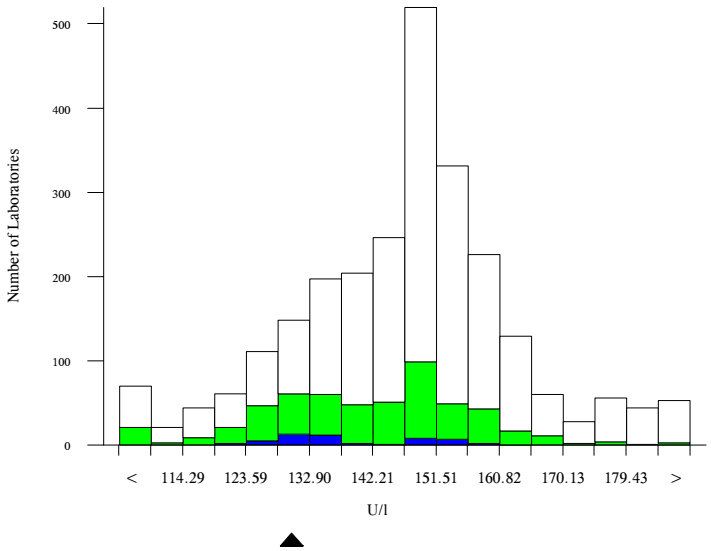
UKAS PROFICIENCY TESTING 0010

GGT, U/l @ 37°C

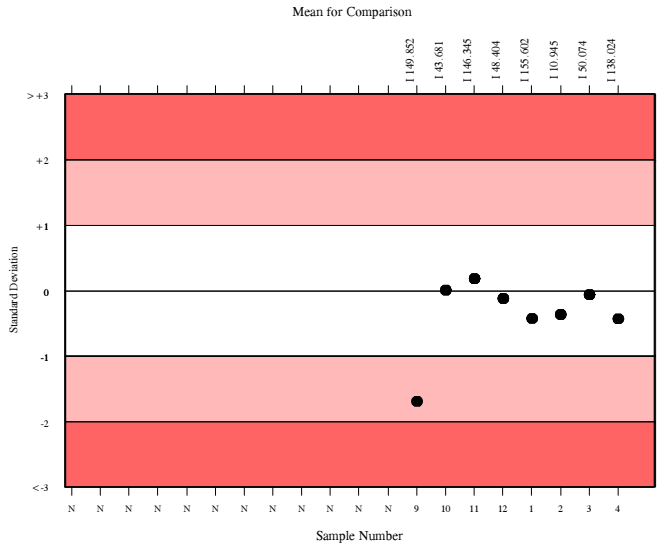
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2336	146.866	8.4	0.32	12.59	214
Gamma glut.-3-carb.-4-nitro.	517	142.151	8.6	0.67	12.19	34
Roche Cobas c501/502 e601/602	51	138.024	7.2	1.74	11.83	1

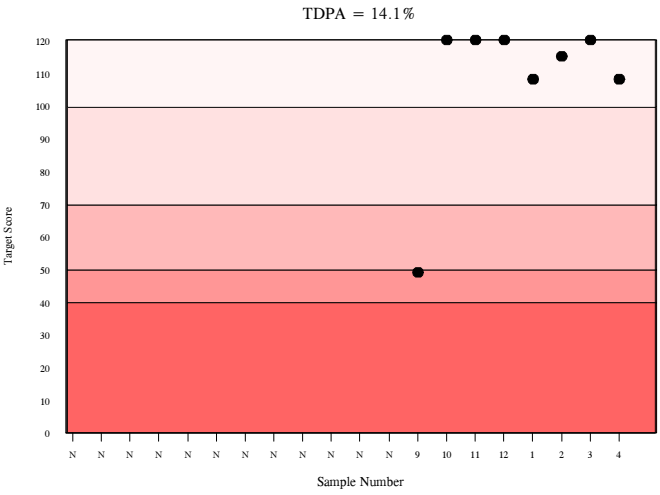
▲ Your Result	132.900	SDI	-0.43
		RMSDI	Too Few
Mean for Comparison	138.024	TS	108
		RMTS	Too Few
		%DEV	-3.7
		RM%DEV	Too Few

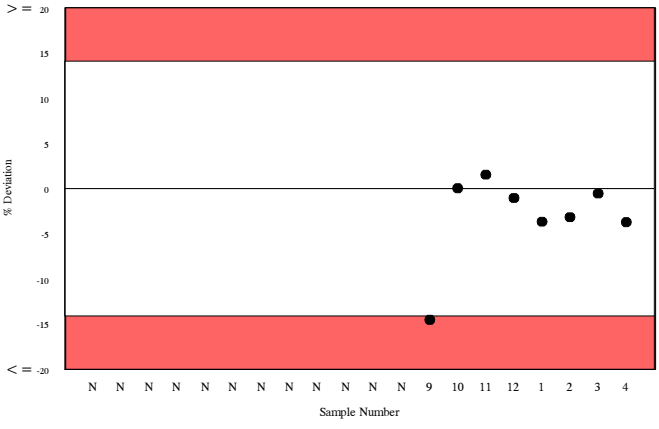
Acceptable limits derived from Biological Variation	22.11%
Acceptable limits of performance for RIQAS	14.10%

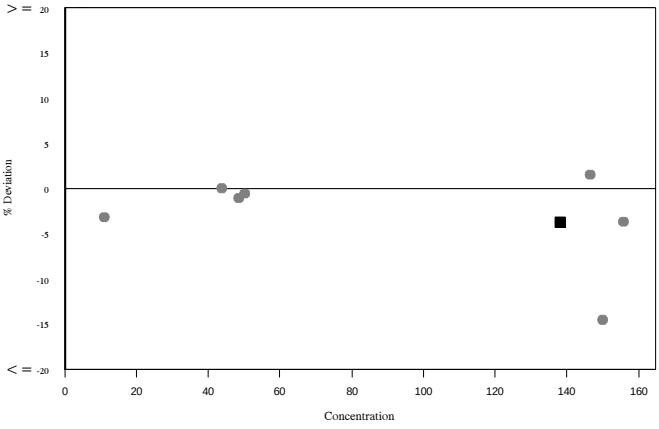


Method	N	Mean	CV%	U_m
Gamma glut'3-carb'4-nitro(IFCC)	1431	147.278	6.2	0.30
Gamma glut.-3-carb.-4-nitro.	517	142.151	8.6	0.67
Siemens/Dade, standard nonIFCC correlate	116	177.503	5.0	1.02
Ortho Vitros MicroSlide Systems	110	160.858	2.4	0.46
Gamma glutamyl-4-nitroanilide	80	123.216	9.8	1.68
DCL, gamma glut.-3-carb.-4-nitro.	38	142.639	7.7	2.24
Agappe - SZASZ KINETIC	23	133.247	7.6	2.65
Vitros, DT60/DT60 II/DTSC II	13	159.154	6.5	3.56
Other Dry Chemistry	4	161.304	28.3	28.49









RIQAS

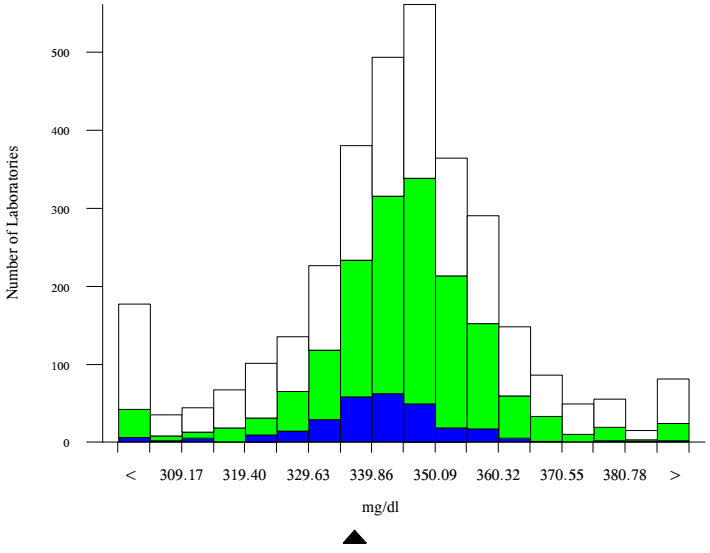
UKAS PROFICIENCY TESTING 0010

Glucose, mg/dl

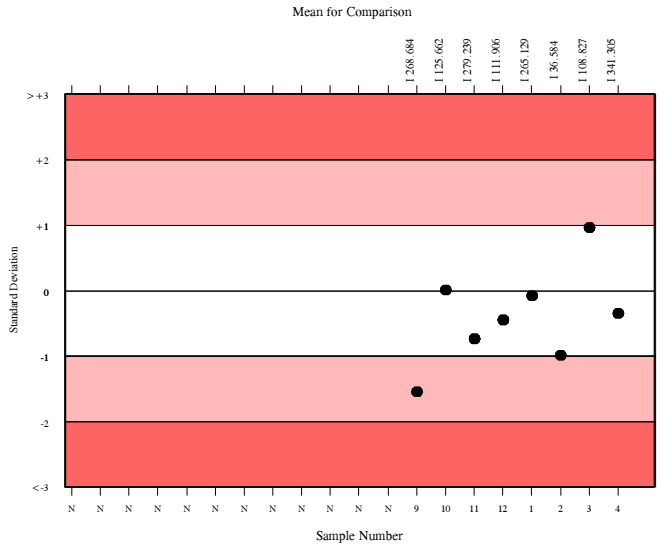
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	3023	344.982	4.0	0.31	15.10	287
Hexokinase	1557	345.126	2.8	0.31	15.11	138
Roche Cobas c501/502 e601/602	255	341.305	2.5	0.67	14.94	25

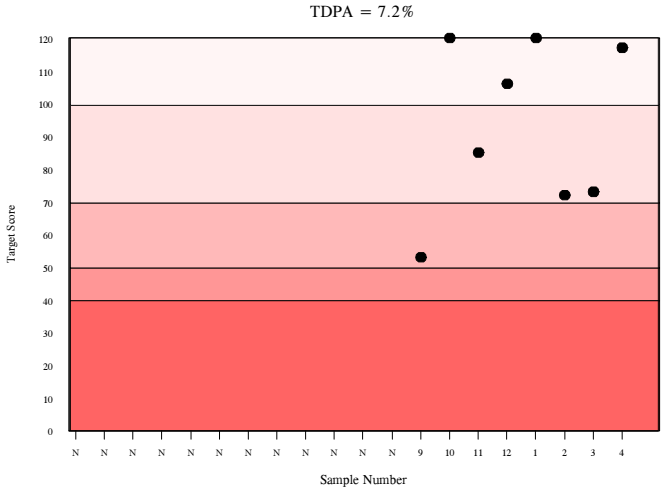
▲ Your Result	336.100	SDI	-0.35
		RMSDI	Too Few
Mean for Comparison	341.305	TS	117
		RMTS	Too Few
		%DEV	-1.5
		RM%DEV	Too Few

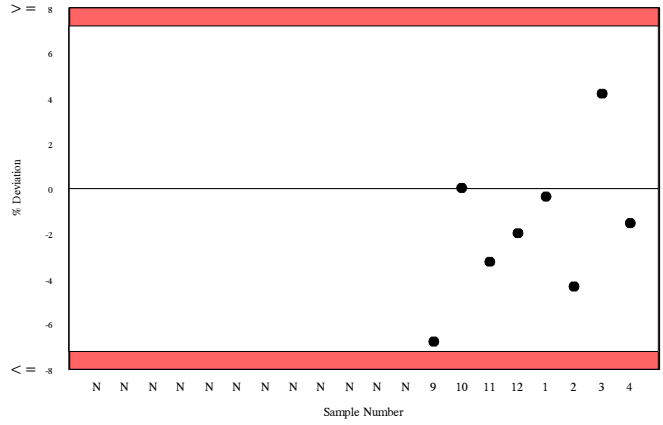
Acceptable limits derived from Biological Variation	6.96%
Acceptable limits of performance for RIQAS	7.20%

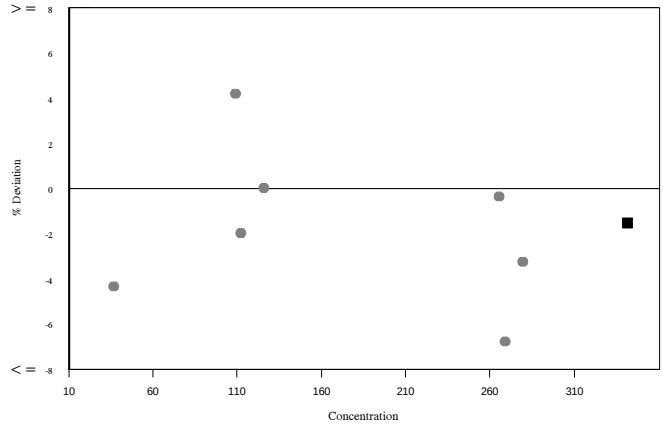


Method	N	Mean	CV%	U_m
Hexokinase	1557	345.126	2.8	0.31
Glucose oxidase	1222	343.356	5.7	0.70
Ortho Vitros MicroSlide Systems	129	348.224	2.1	0.80
Glucose dehydrogenase	35	348.202	2.5	1.84
Agappe - GOD-PAP	26	342.162	3.6	3.05
GOD/02-Beckman method	21	343.287	2.3	2.19
Vitros, DT60/DT60 II	14	357.816	6.4	7.67
Oxygen electrode	13	336.223	3.0	3.50
Other Dry Chemistry	5	323.171	6.5	11.69









RIQAS

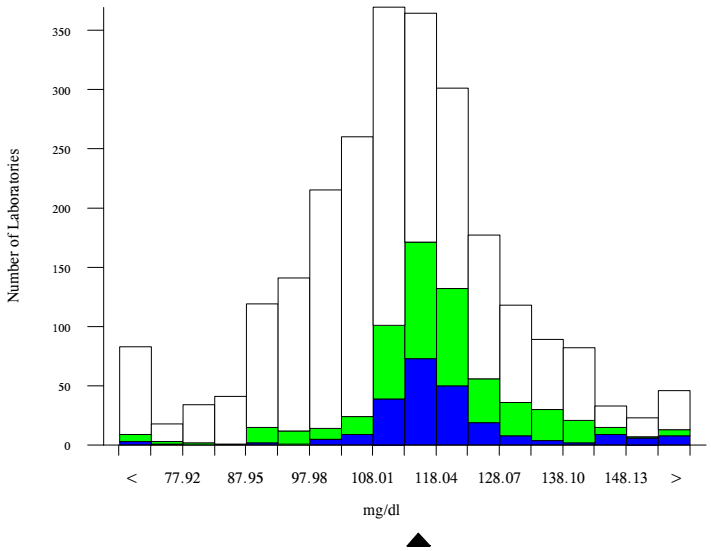
UKAS PROFICIENCY TESTING 0010

HDL-Cholesterol, mg/dl

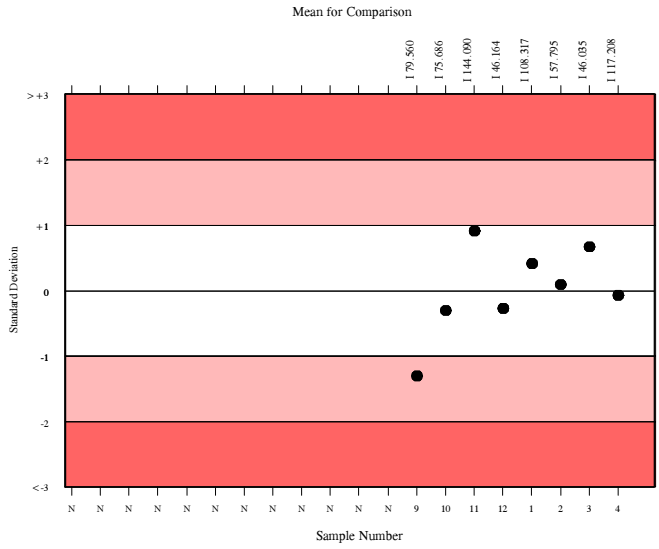
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2313	113.034	11.8	0.35	13.12	222
Direct HDL, Roche 3rd gen.	598	118.581	7.8	0.47	13.77	73
Roche Cobas c501/502 e601/602	209	117.208	5.8	0.59	13.61	31

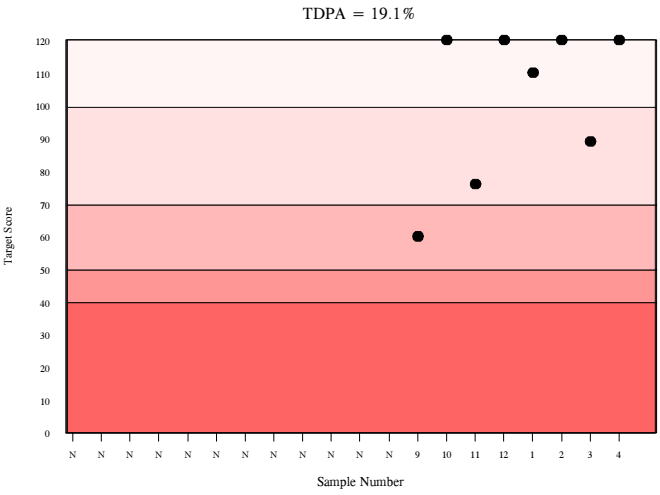
▲ Your Result	116.200	SDI	-0.07
		RMSDI	Too Few
Mean for Comparison	117.208	TS	120
		RMTS	Too Few
		%DEV	-0.9
		RM%DEV	Too Few

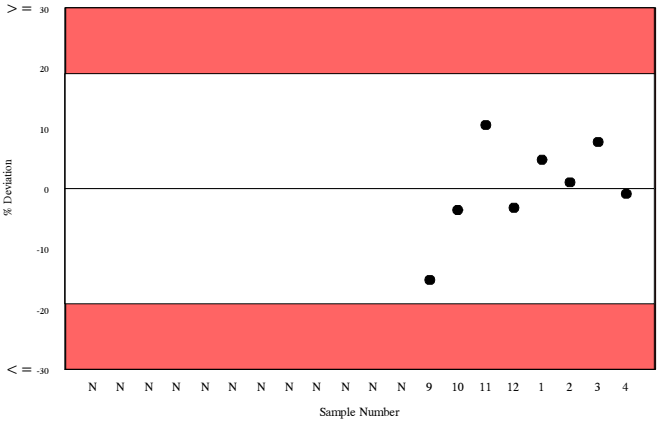
Acceptable limits derived from Biological Variation	11.63%
Acceptable limits of performance for RIQAS	19.10%

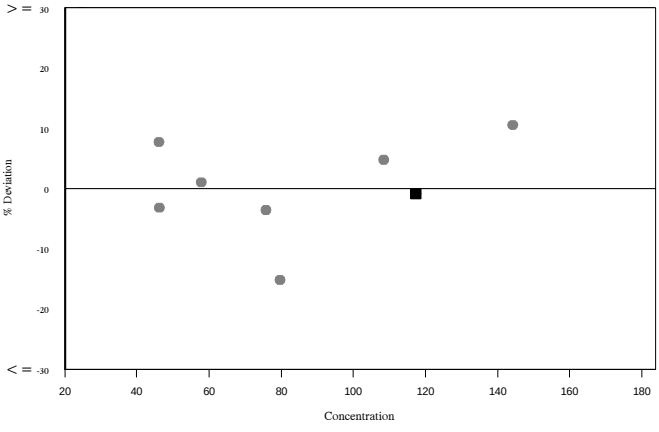


Method	N	Mean	CV%	U_m
Direct HDL, Roche 3rd gen.	598	118.581	7.8	0.47
Direct HDL, Immunoseparation	495	105.433	11.3	0.67
Direct HDL, Clearance method	398	106.705	13.5	0.90
Direct HDL, PPD	240	121.919	10.2	1.00
HDL Ultra/Accel Selective Detergent	205	106.986	8.1	0.75
Direct HDL, PEGME	191	114.853	9.6	1.00
Vitros dHDL, PTA/MgCl2 direct precip.	97	121.457	9.8	1.50
Agappe - SELECTIVE INHIBITION	19	127.833	7.5	2.76
Vitros, Magnetic HDL	13	109.435	6.2	2.35
Vitros 5.1 FS Microtip assay	14	124.654	11.6	4.83
Other Dry Chemistry	7	104.843	13.4	6.62









RIQAS

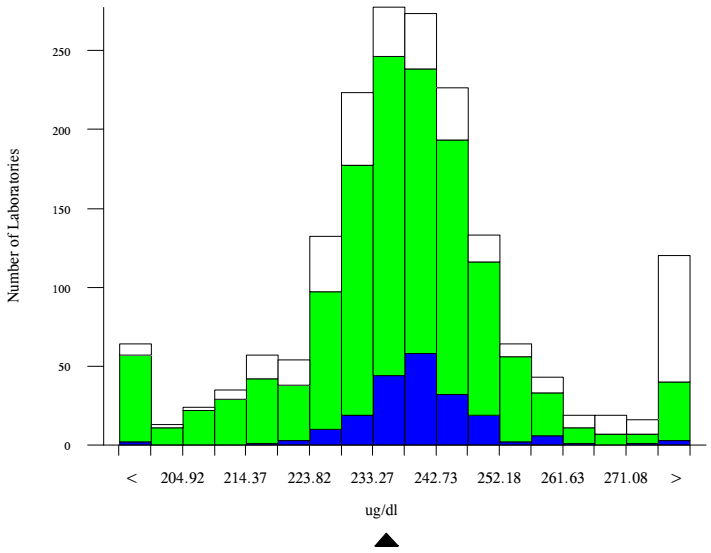
UKAS PROFICIENCY TESTING 0010

Iron, ug/dl

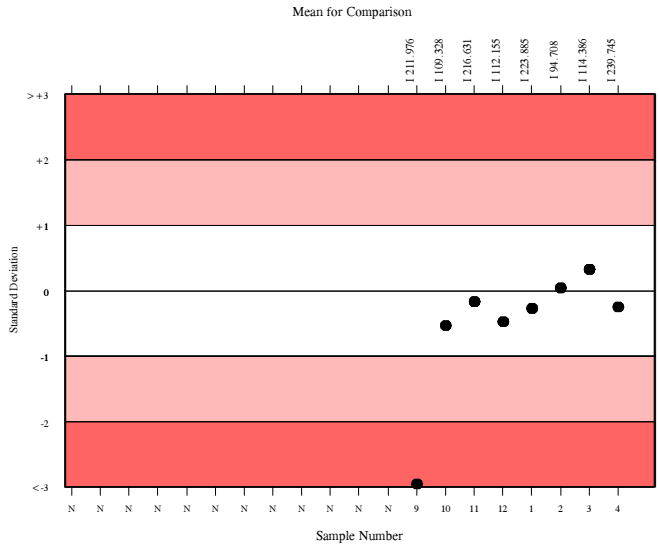
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	1610	238.004	5.3	0.39	14.32	184
Colorimetric without ppt.	1293	237.809	4.5	0.38	14.31	129
Roche Cobas c501/502 e601/602	180	239.745	2.5	0.55	14.43	21

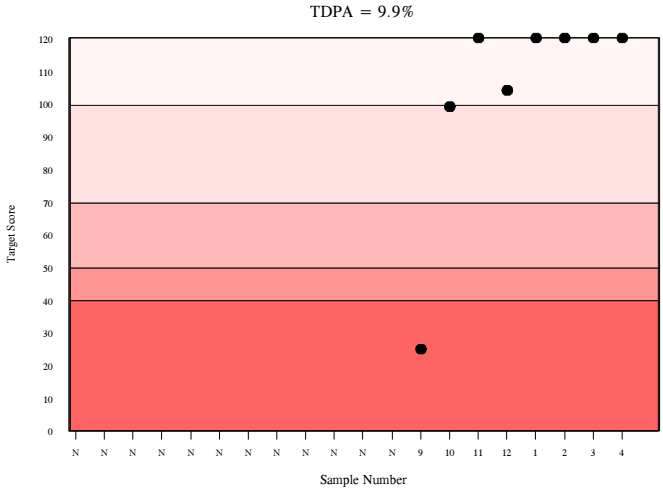
▲ Your Result	236.100	SDI	-0.25
		RMSDI	Too Few
Mean for Comparison	239.745	TS	120
		RMTS	Too Few
		%DEV	-1.5
		RM%DEV	Too Few

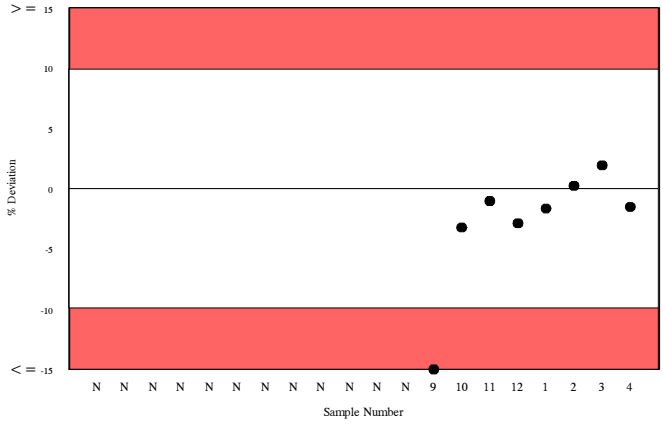
Acceptable limits derived from Biological Variation	30.7%
Acceptable limits of performance for RIQAS	9.90%

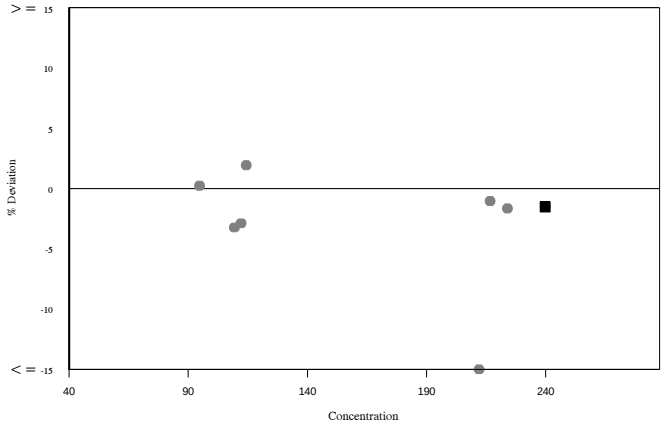


Method	N	Mean	CV%	U_m
Colorimetric without ppt.	1293	237.809	4.5	0.38
Colorimetric with ppt.	203	234.238	4.4	0.91
Ortho Vitros MicroSlide Systems	89	286.446	4.3	1.65
Other method with blank	31	241.459	5.2	2.81
Other method without blank	7	244.822	6.9	7.98
Agappe - CHROMAZUROL	6	221.000	13.1	14.83
Vitros DT60/DT60 II/DTSC II	4	233.438	17.8	25.97
Other Dry Chemistry	2	221.980	4.4	8.72









RIQAS

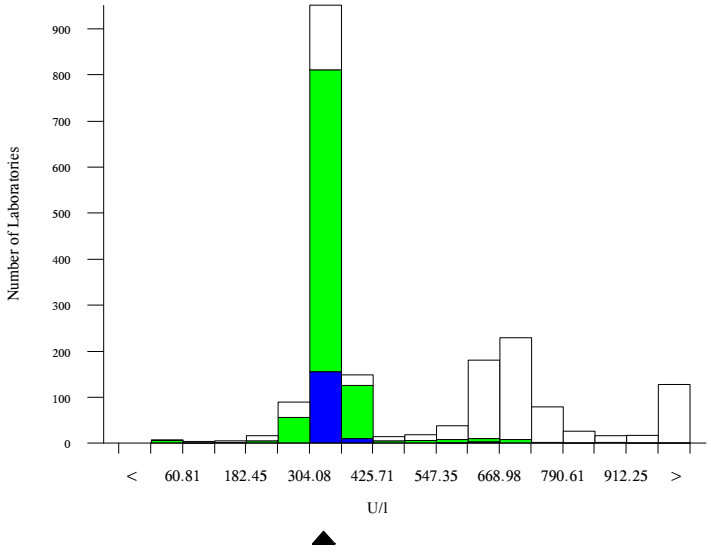
UKAS PROFICIENCY TESTING 0010

LD (LDH), U/l @ 37°C

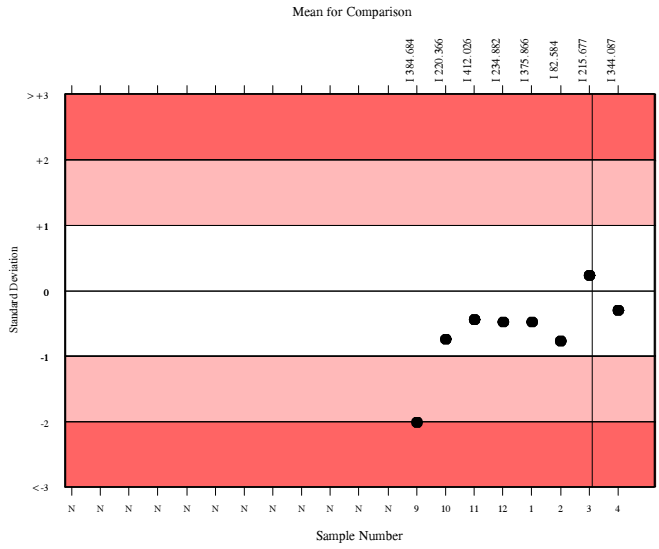
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	1823	455.550	37.9	5.05	39.88	141
L to P, IFCC	927	346.868	4.5	0.64	30.37	123
Roche Cobas c501/502 e601/602	155	344.087	2.8	0.96	30.12	14

Your Result	335.000	SDI	-0.30
		RMSDI	Too Few
Mean for Comparison	344.087	TS	120
		RMTS	Too Few
		%DEV	-2.6
		RM%DEV	Too Few

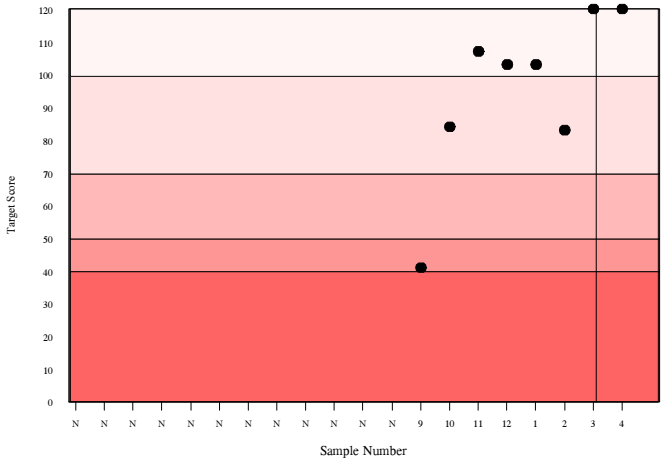
Acceptable limits derived from Biological Variation	11.4%
Acceptable limits of performance for RIQAS	14.40%

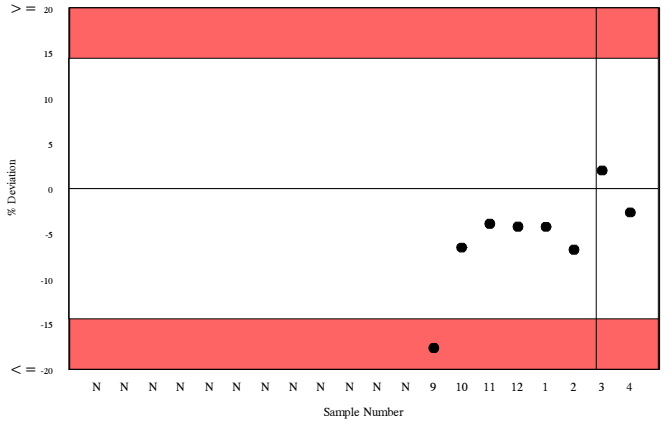


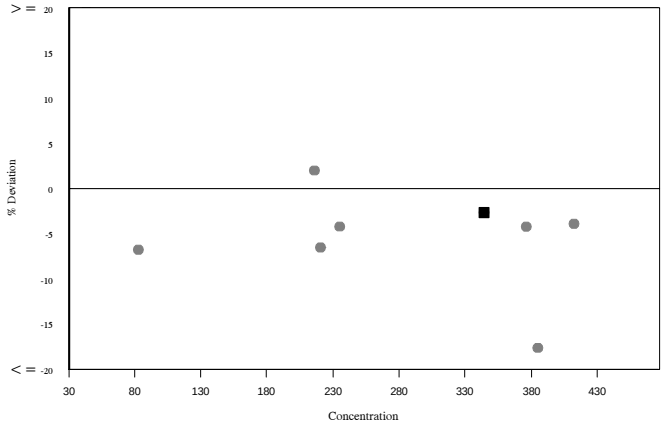
Method	N	Mean	CV%	U_m
L to P, IFCC	927	346.868	4.5	0.64
P to L, German methods	308	677.951	6.1	2.95
Lactate to Pyruvate methods	122	330.731	8.8	3.30
P to L, Scandinavian & Dutch	120	699.941	11.6	9.30
Ortho Vitros MicroSlide Systems	102	1045.220	2.8	3.57
P to L, SFBC	68	667.836	12.2	12.37
L to P Siemens/Dade, Non-IFCC	28	343.781	5.2	4.20
Pyruvate 1.4 mM - Beckman LD-P	17	903.412	8.7	23.86
Agappe - SCE	18	641.211	22.5	42.51
Vitros, DT60/DT60 II/DTSC II	10	1048.800	4.4	18.11
Other Dry Chemistry	5	694.264	11.4	44.38



TDPA = 14.4%







RIQAS

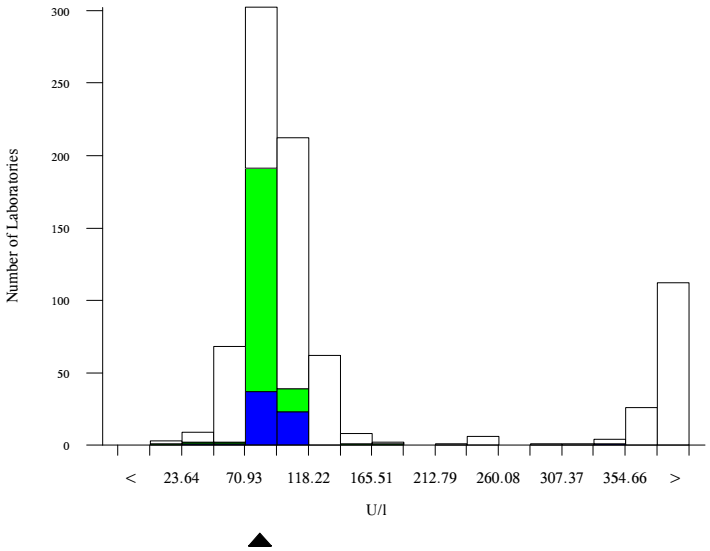
UKAS PROFICIENCY TESTING 0010

Lipase, U/l @ 37°C

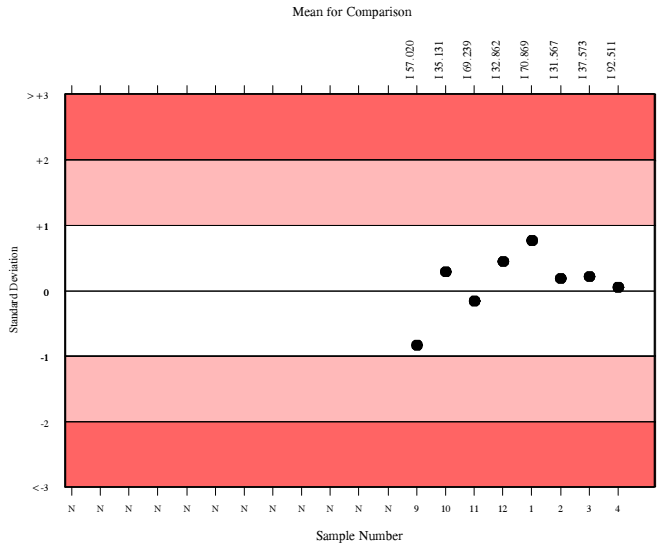
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	728	118.742	72.9	4.01	15.02	89
Colorimetric, Roche	221	84.083	9.4	0.66	10.63	17
Roche Integra	58	92.511	7.3	1.11	11.70	5

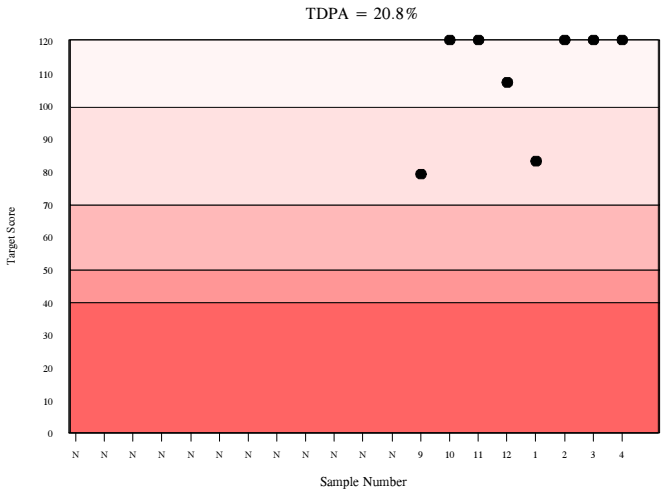
▲ Your Result	93.070	SDI	0.05
		RMSDI	Too Few
Mean for Comparison	92.511	TS	120
		RMTS	Too Few
		%DEV	0.6
		RM%DEV	Too Few

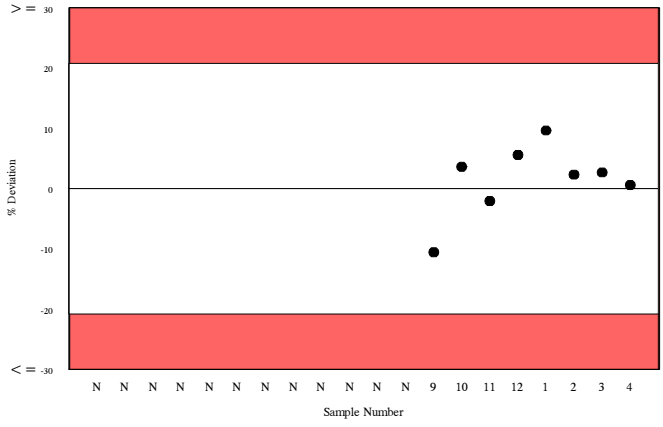
Acceptable limits derived from Biological Variation	37.88%
Acceptable limits of performance for RIQAS	20.80%

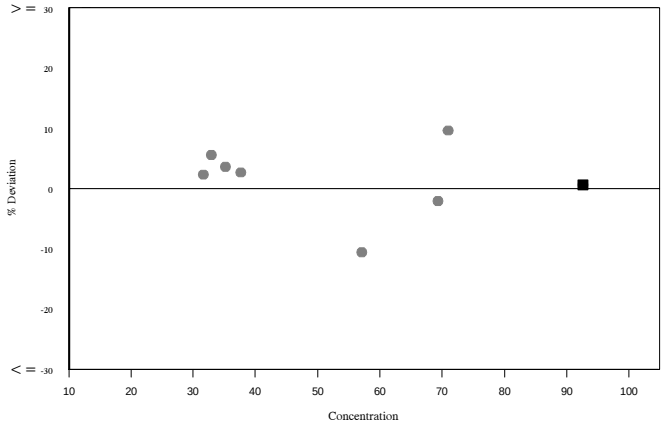


Method	N	Mean	CV%	U_m
Other Colorimetric	337	97.164	22.0	1.45
Colorimetric, Roche	221	84.083	9.4	0.66
Ortho Vitros MicroSlide Systems	61	1212.531	7.4	14.35
Colorimetric, Dade Dimension (LIPL Kit)	39	377.948	3.0	2.26
Colorimetric, Randox	22	103.132	16.5	4.53
Other Turbidimetric with colipase	17	96.080	29.7	8.66
Agappe - METHYL RESORUFIN	11	90.772	13.3	4.57
Colorimetric, Dade Dimension (LIP Kit)	7	387.286	4.2	7.77
Randox Turbidimetric with colipase	9	355.222	73.8	109.29
Vitros, DT60/DT60 II/DTSC II	6	1126.833	11.8	67.74
Turbidimetric without colipase	4	104.100	18.0	11.70
Titrimetric	4	91.650	4.6	2.63
Roche Turbidimetric with colipase	3	81.867	4.9	2.92
Other Dry Chemistry	1	1250.000	0.0	0.00









RIQAS

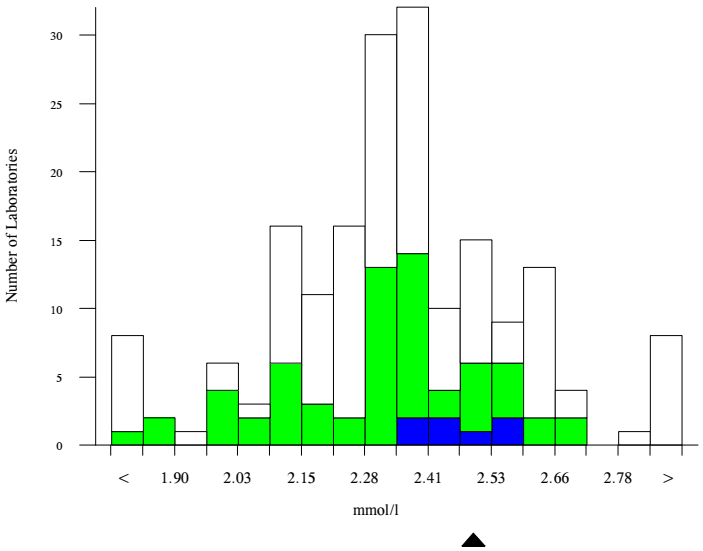
UKAS PROFICIENCY TESTING 0010

Lithium, mmol/l

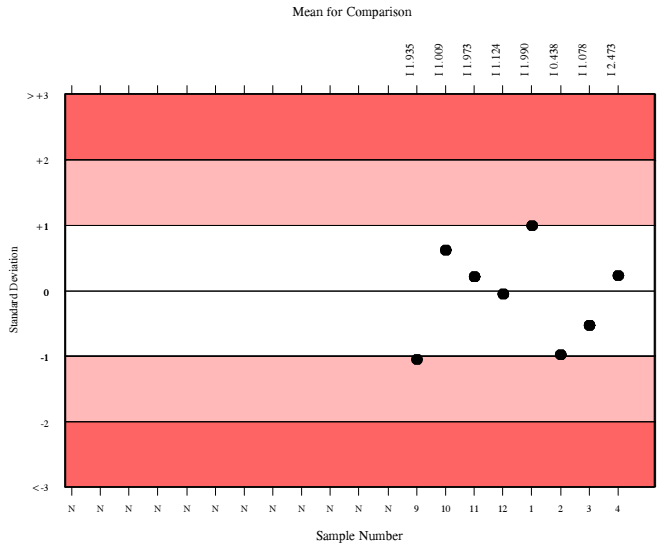
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	166	2.347	7.2	0.02	0.16	19
Ion selective electrode	64	2.347	7.5	0.03	0.16	3
Roche Integra	7	2.473	3.0	0.03	0.16	0

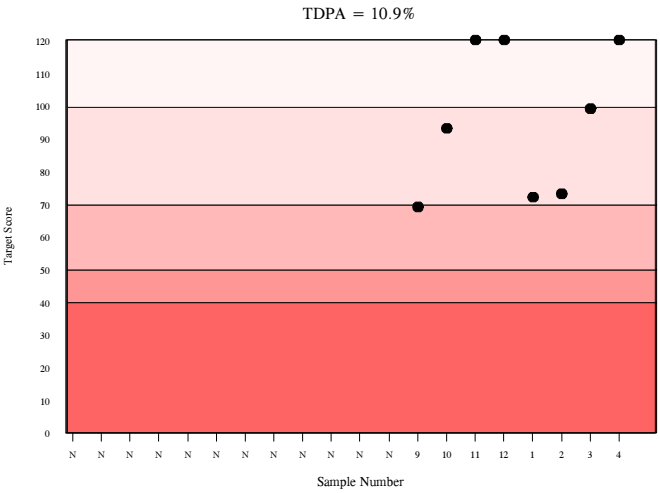
▲ Your Result	2.510	SDI	0.23
		RMSDI	Too Few
Mean for Comparison	2.473	TS	120
		RMTS	Too Few
		%DEV	1.5
		RM%DEV	Too Few

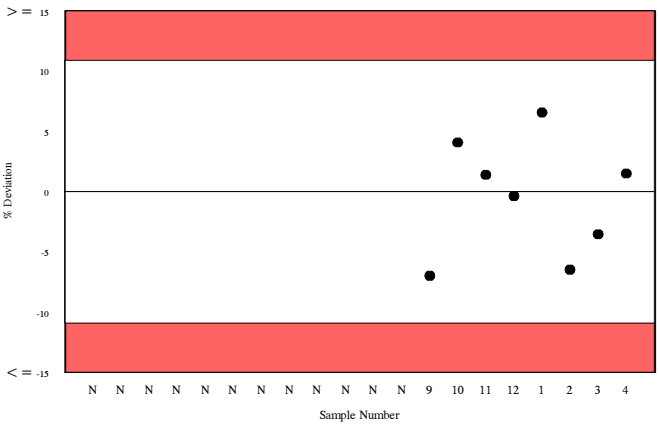
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	10.90%

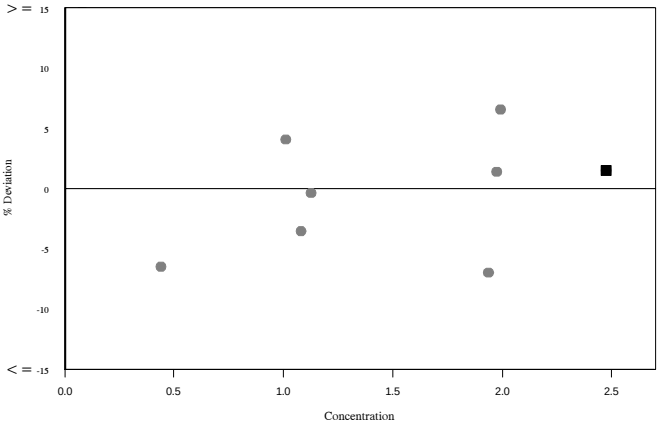


Method	N	Mean	CV%	U_m
Ion selective electrode	64	2.347	7.5	0.03
Spectrophotometric	54	2.329	4.5	0.02
Ortho Vitros MicroSlide Systems	19	2.222	7.0	0.04
Flame photometry	15	2.370	13.7	0.11
Vitros, DT60/DT60 II/DTSC II	8	2.675	5.9	0.07
Atomic absorption	4	2.870	20.3	0.36
Other Dry Chemistry	3	2.352	6.0	0.10









RIQAS

UKAS PROFICIENCY TESTING 0010

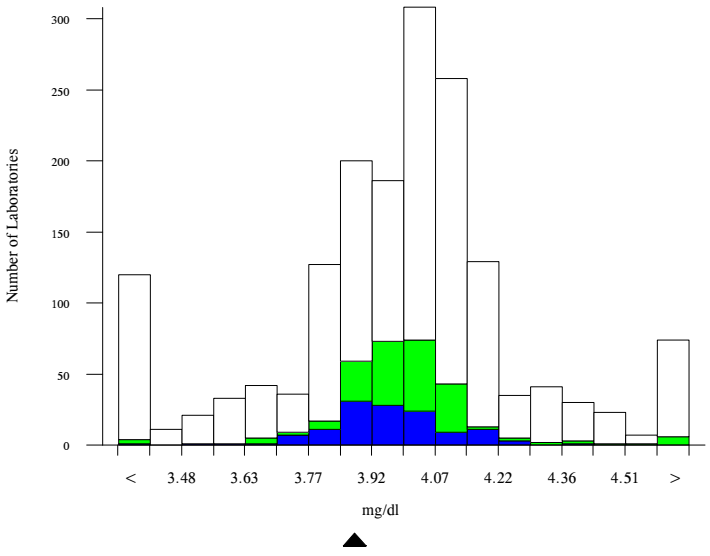
Magnesium, mg/dl

	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	1498	3.999	4.9	0.01	0.26	184
Chlorphosphonazo III	289	3.987	2.5	0.01	0.25	28
Roche Integra	121	3.965	2.8	0.01	0.25	8

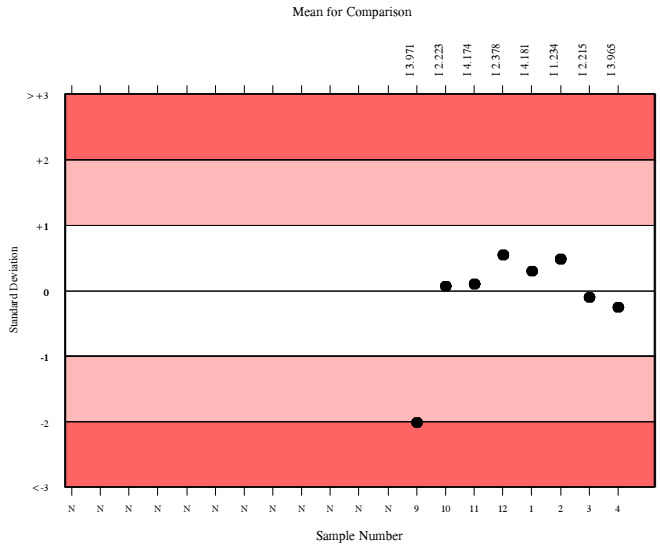
▲ Your Result	3.900	SDI	-0.26
		RMSDI	Too Few
Mean for Comparison	3.965	TS	120
		RMTS	Too Few
		%DEV	-1.6
		RM%DEV	Too Few

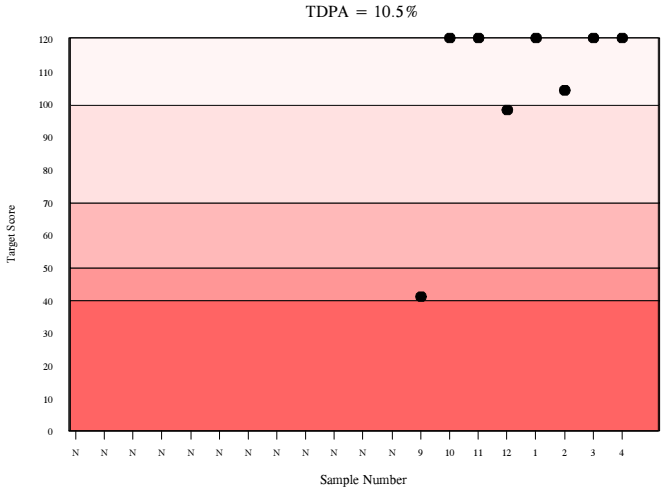
Acceptable limits derived from Biological Variation 4.8%

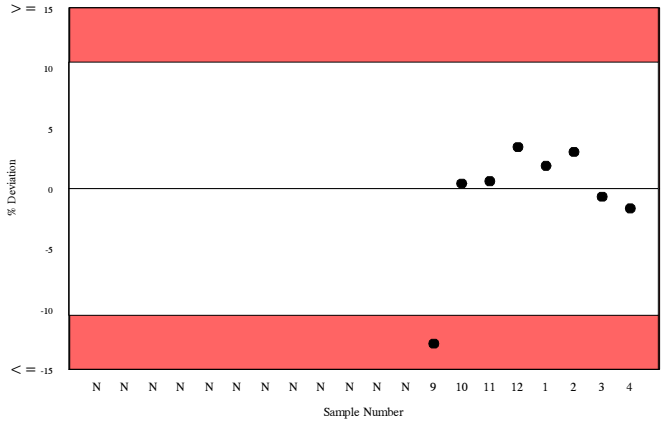
Acceptable limits of performance for RIQAS 10.50%

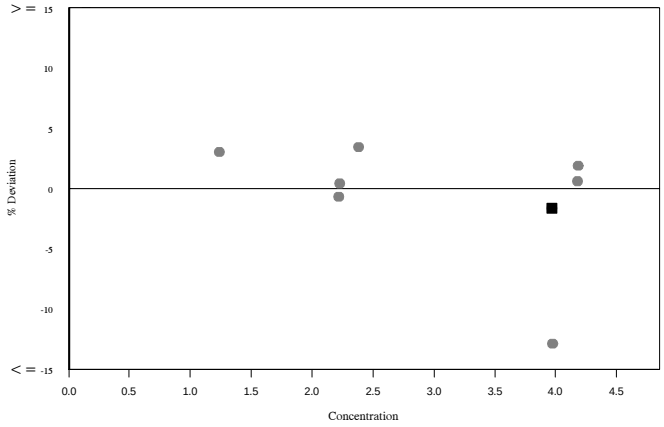


Method	N	Mean	CV%	U_m
Xylidyl Blue	613	3.935	7.5	0.01
Chlorphosphonazo III	289	3.987	2.5	0.01
Methylthymol blue	168	4.110	3.5	0.01
Calmagite	135	3.968	4.9	0.02
Ortho Vitros MicroSlide Systems	100	4.013	3.2	0.02
Arsenazo	76	4.031	3.4	0.02
Enzymatic	80	4.029	3.7	0.02
Agappe - XYLIDYL BLUE	13	3.845	7.8	0.10
Vitros, DT60/DT60 II/DTSC II	11	3.977	6.6	0.10
Other magnesium dyes	10	3.974	8.9	0.14
Atomic absorption	8	3.932	3.1	0.05
Other Dry Chemistry	4	4.257	7.9	0.21









RIQAS

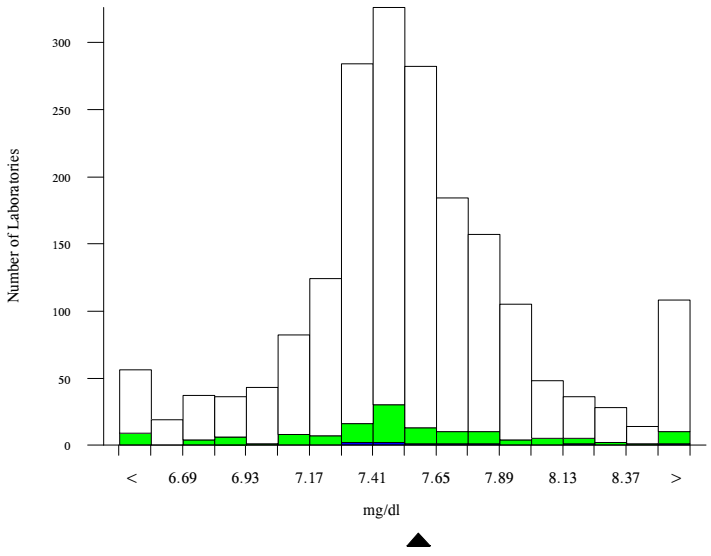
UKAS PROFICIENCY TESTING 0010

Phosphate, Inorganic, mg/dl

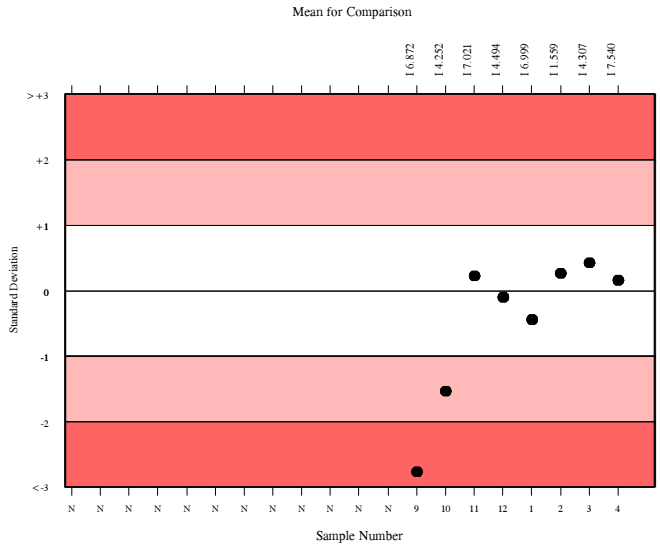
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	1787	7.537	4.2	0.01	0.38	182
Phosphomolybdate enzymatic	123	7.505	4.9	0.04	0.38	18
Roche Cobas c501/502 e601/602	7	7.540	2.3	0.08	0.38	2

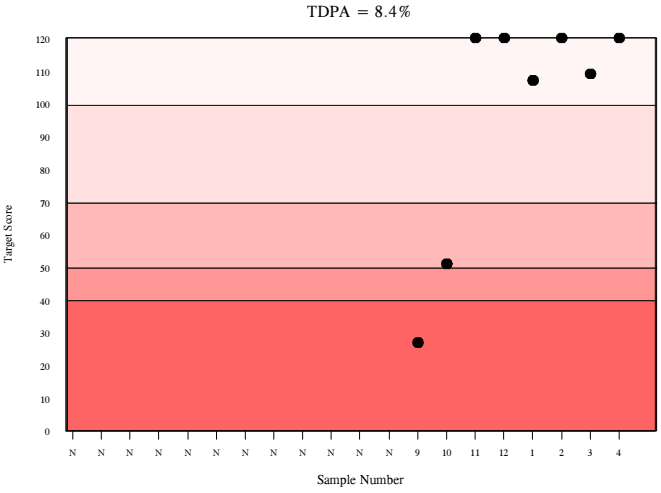
Your Result	7.600	SDI	0.16
		RMSDI	Too Few
Mean for Comparison	7.540	TS	120
		RMTS	Too Few
		%DEV	0.8
		RM%DEV	Too Few

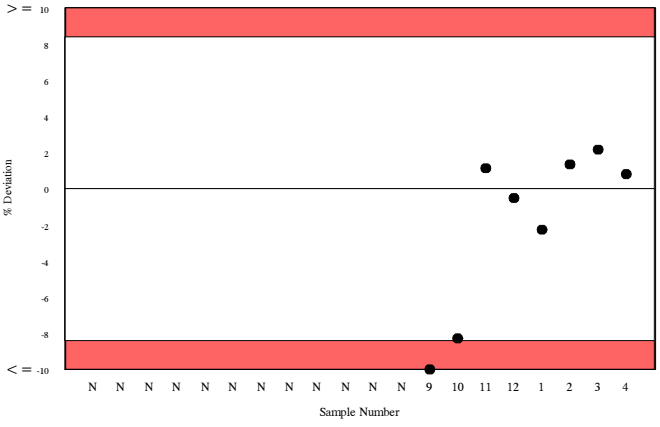
Acceptable limits derived from Biological Variation	10.11%
Acceptable limits of performance for RIQAS	8.40%

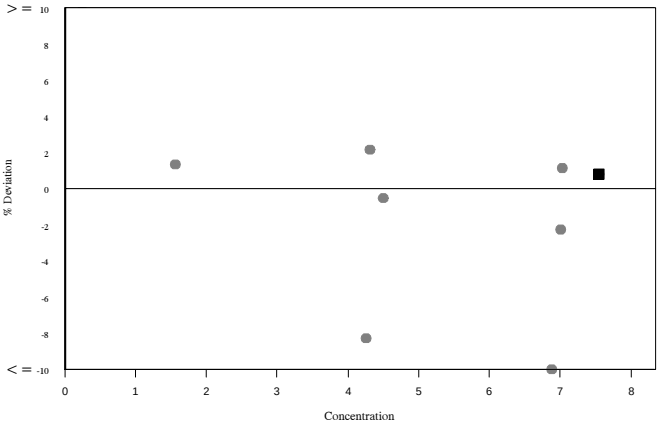


Method	N	Mean	CV%	U_m
Phosphomolybdate UV	1493	7.510	4.0	0.01
Phosphomolybdate enzymatic	123	7.505	4.9	0.04
Ortho Vitros MicroSlide Systems	108	7.840	2.7	0.03
Beckman PHOSm kit (365nm)	30	8.114	7.8	0.14
Agappe - PHOSPOHMOLYBDATE	14	7.647	2.5	0.07
Vitros, DT60/DT60 II/DTSC II	13	7.557	12.2	0.32
Other methods, no protein ppt	5	8.214	13.7	0.63









RIQAS

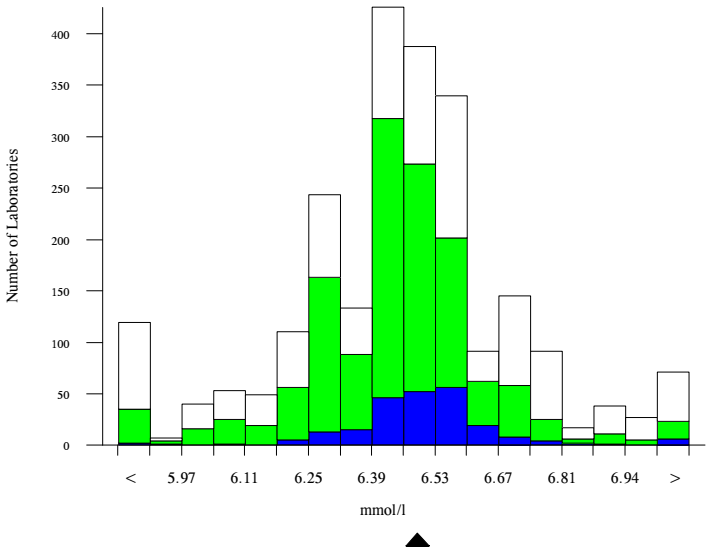
UKAS PROFICIENCY TESTING 0010

Potassium, mmol/l

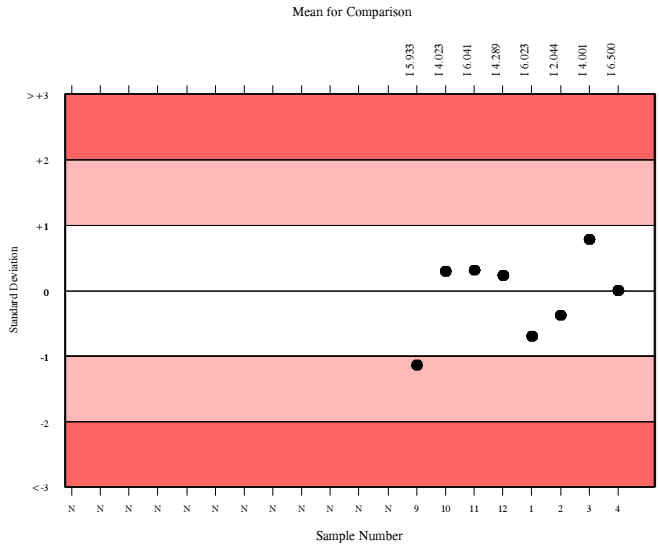
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2163	6.464	2.9	0.00	0.20	222
ISE method - indirect	1247	6.455	2.0	0.00	0.20	140
Roche Cobas c501/502 e601/602	209	6.500	1.5	0.01	0.21	22

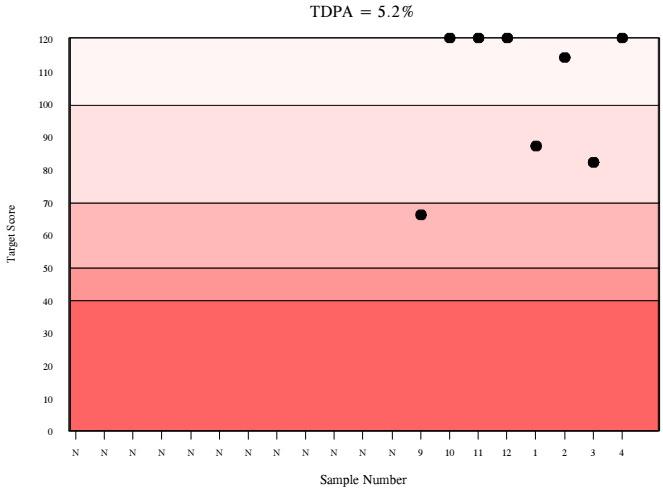
▲ Your Result	6.500	SDI	0.00
		RMSDI	Too Few
Mean for Comparison	6.500	TS	120
		RMTS	Too Few
		%DEV	0.0
		RM%DEV	Too Few

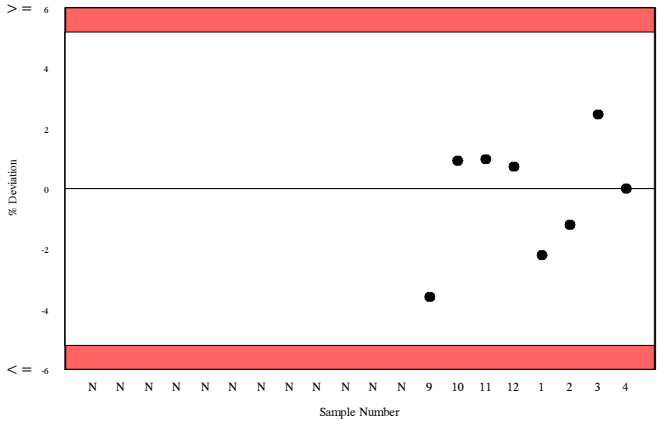
Acceptable limits derived from Biological Variation	5.61%
Acceptable limits of performance for RIQAS	5.20%

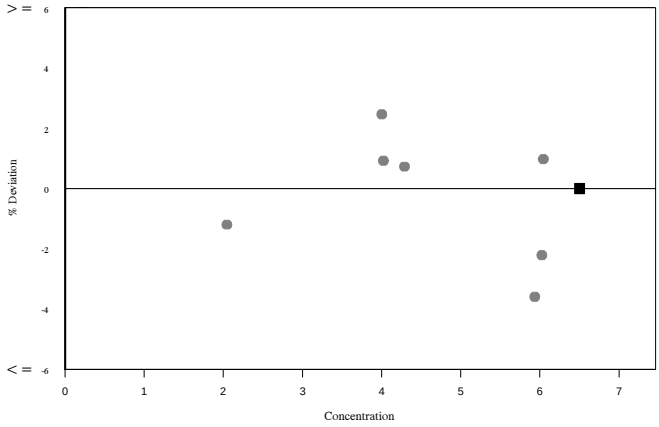


Method	N	Mean	CV%	U_m
ISE method - indirect	1247	6.455	2.0	0.00
ISE method - direct	698	6.460	4.1	0.01
Ortho Vitros MicroSlide Systems	111	6.649	1.8	0.01
Flame photometry	38	6.369	3.5	0.04
Vitros, DT60/DT60 II/DTE II	17	6.424	3.9	0.08
Colorimetric	18	5.907	15.4	0.27
Optical Fluorescence	9	6.633	2.9	0.08
Enzymatic	8	6.131	8.3	0.22
Other Dry Chemistry	5	6.530	5.5	0.20
Agappe - ISE DIRECT	2	6.550	1.1	0.06









RIQAS

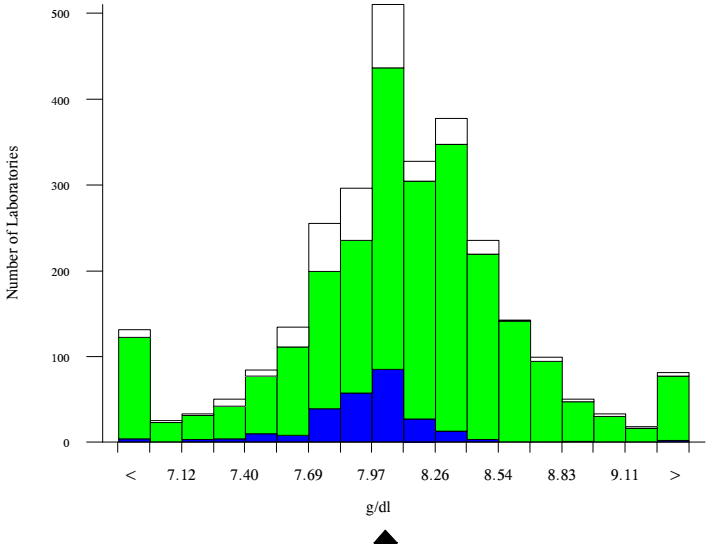
UKAS PROFICIENCY TESTING 0010

Protein, Total, g/dl

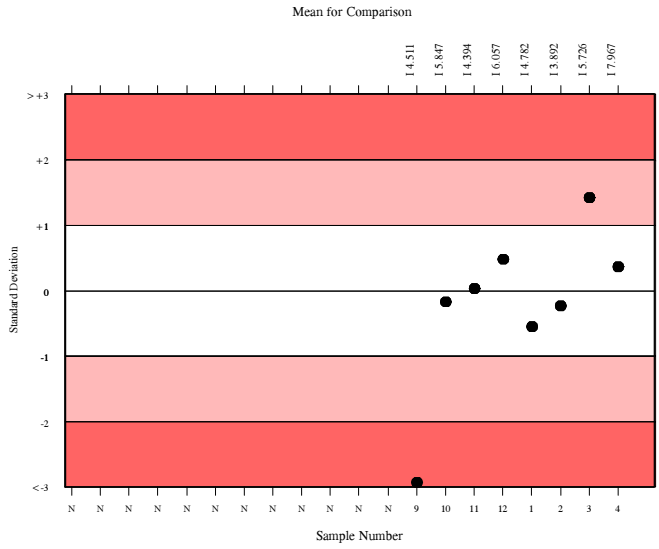
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2646	8.120	4.7	0.01	0.38	235
Biuret reaction, end point	2342	8.143	4.8	0.01	0.38	210
Roche Cobas c501/502 e601/602	234	7.967	2.2	0.01	0.37	22

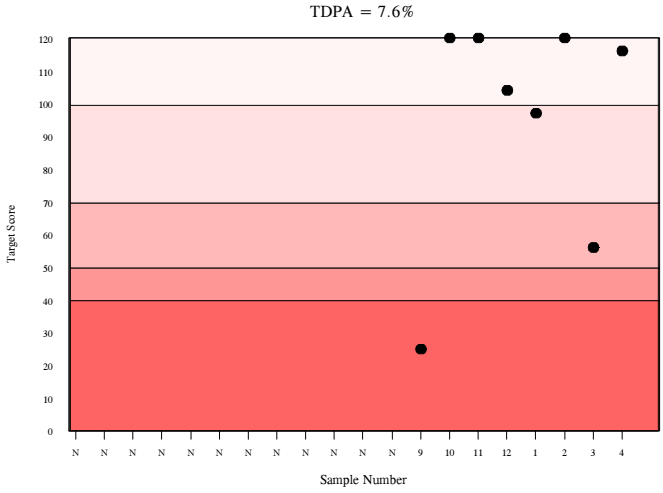
▲ Your Result	8.100	SDI	0.36
		RMSDI	Too Few
Mean for Comparison	7.967	TS	116
		RMTS	Too Few
		%DEV	1.7
		RM%DEV	Too Few

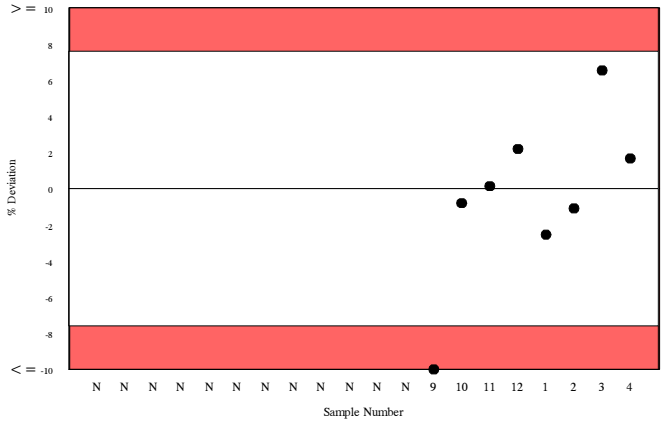
Acceptable limits derived from Biological Variation	3.63%
Acceptable limits of performance for RIQAS	7.60%

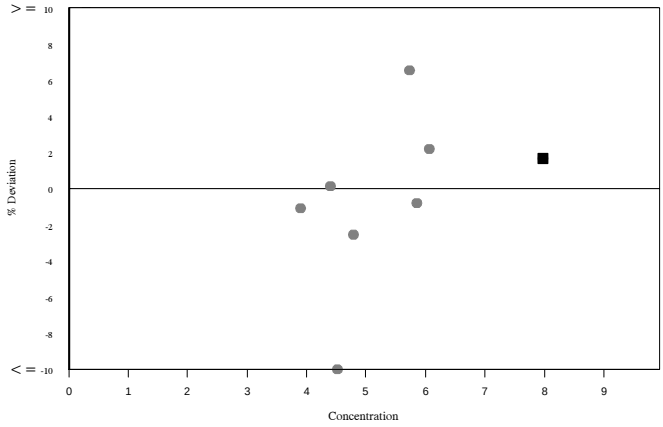


Method	N	Mean	CV%	U_m
Biuret reaction, end point	2342	8.143	4.8	0.01
Ortho Vitros MicroSlide Systems	123	7.892	2.1	0.02
Biuret reaction, kinetic	95	7.944	3.1	0.03
Biuret reaction, CX4/5/7	44	8.183	3.4	0.05
Agappe - BIURET	17	8.362	1.5	0.04
Vitros, DT60/DT60 II	11	8.236	7.9	0.24
Other Dry Chemistry	4	7.900	1.5	0.07









RIQAS

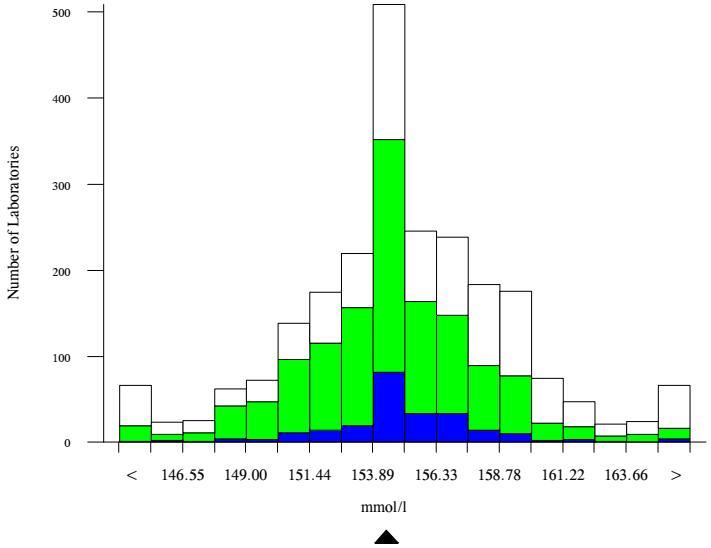
UKAS PROFICIENCY TESTING 0010

Sodium, mmol/l

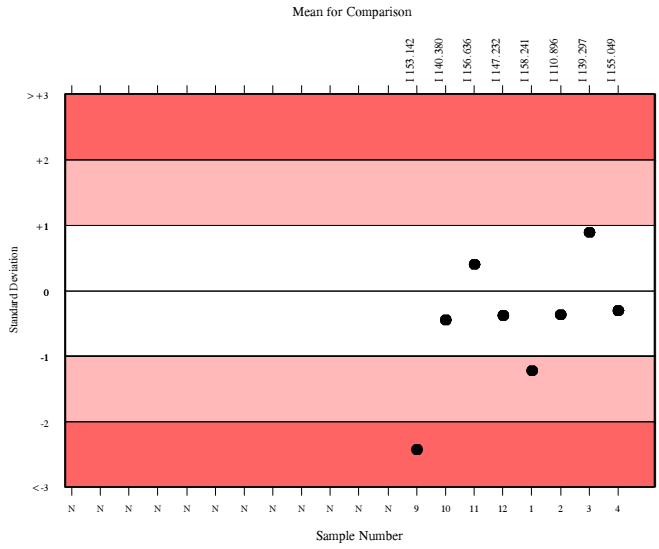
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2178	155.114	2.1	0.09	3.39	183
ISE method - indirect	1288	154.664	1.7	0.09	3.39	107
Roche Cobas c501/502 e601/602	218	155.049	1.4	0.18	3.39	18

▲ Your Result	154.000	SDI	-0.31
		RMSDI	Too Few
Mean for Comparison	155.049	TS	120
		RMTS	Too Few
		%DEV	-0.7
		RM%DEV	Too Few

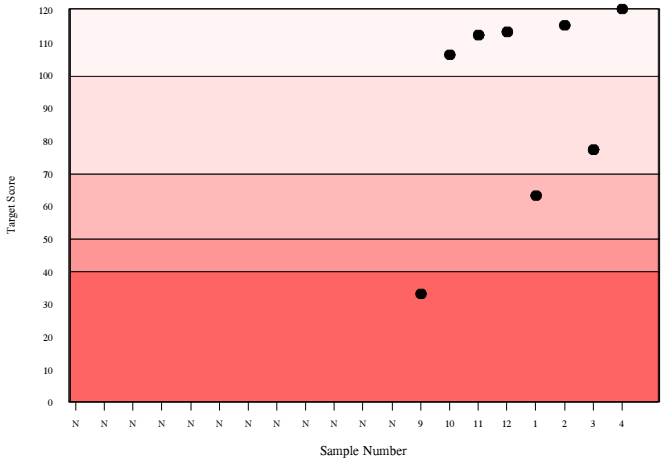
Acceptable limits derived from Biological Variation	0.73%
Acceptable limits of performance for RIQAS	3.60%

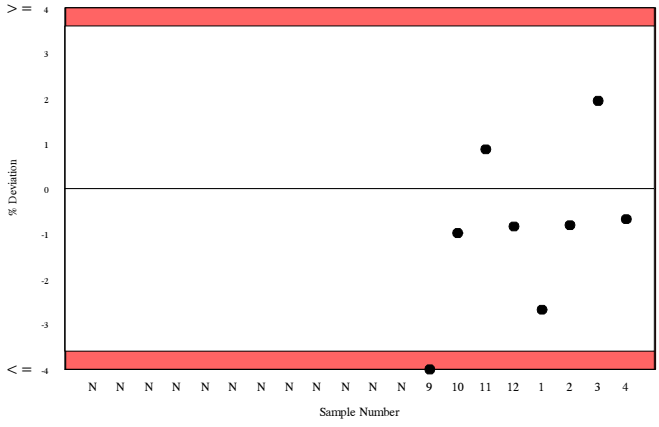


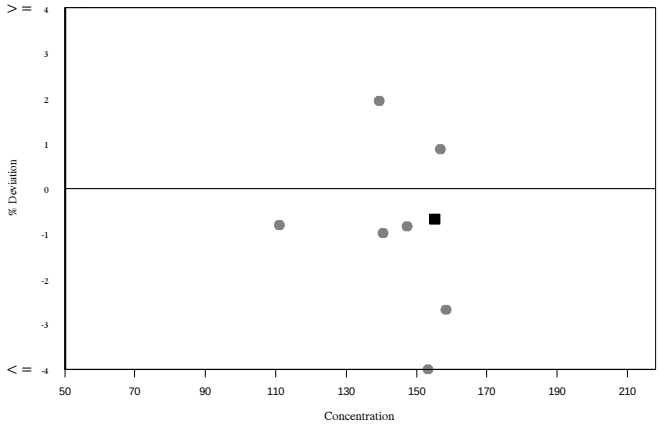
Method	N	Mean	CV%	U_m
ISE method - indirect	1288	154.664	1.7	0.09
ISE method - direct	682	155.473	2.4	0.18
Ortho Vitros MicroSlide Systems	107	160.057	1.3	0.25
Flame photometry	37	153.232	3.0	0.96
Vitros, DT60/DT60 II/DTE II	18	154.311	2.6	1.16
Enzymatic	9	155.579	4.6	3.00
Optical Fluorescence	9	154.311	2.6	1.68
Colorimetric	7	157.974	5.9	4.43
Other Dry Chemistry	3	154.000	2.8	3.15
Agappe - ISE DIRECT	2	160.550	0.5	0.69



TDPA = 3.6%







RIQAS

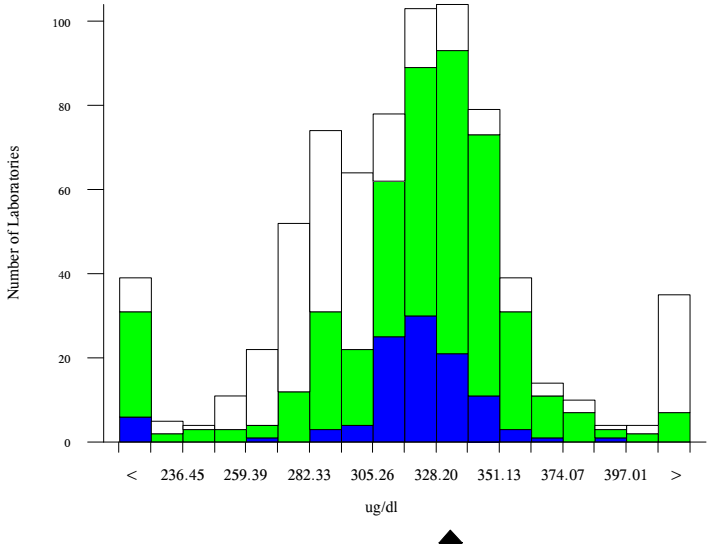
UKAS PROFICIENCY TESTING 0010

TIBC, ug/dl

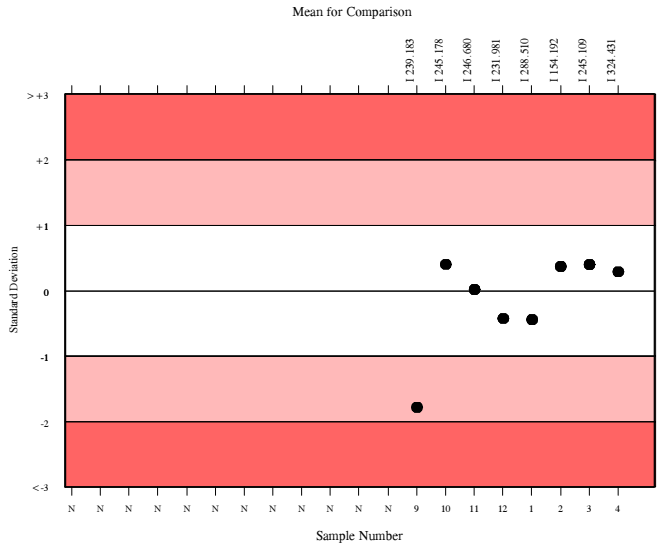
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	668	316.735	9.7	1.48	35.82	73
FE+UIBC(saturation with iron)	428	326.972	6.6	1.30	36.97	58
Roche Cobas c501/502 e601/602	94	324.431	4.0	1.69	36.69	12

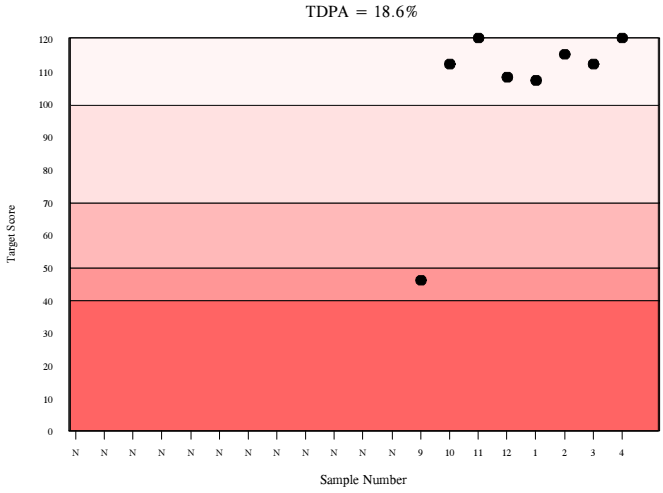
▲ Your Result	334.900	SDI	0.29
		RMSDI	Too Few
Mean for Comparison	324.431	TS	120
		RMTS	Too Few
		%DEV	3.2
		RM%DEV	Too Few

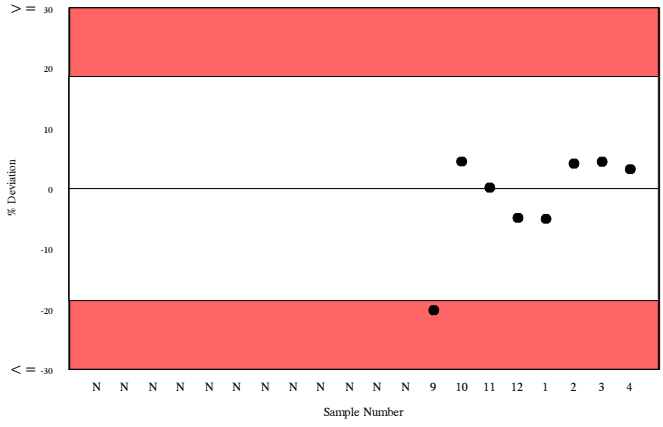
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	18.60%

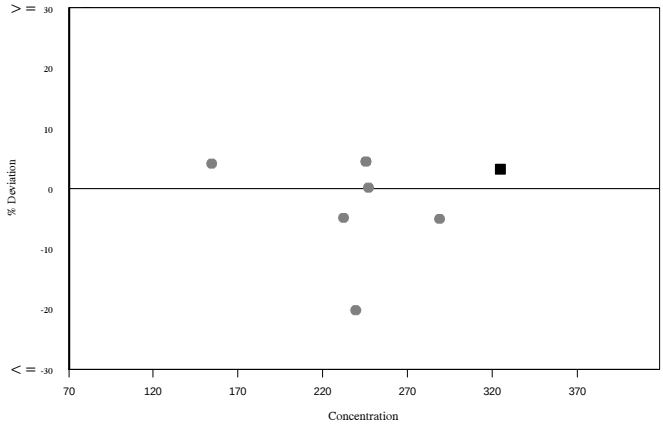


Method	N	Mean	CV%	U_m
FE+UIBC(saturation with iron)	428	326.972	6.6	1.30
Direct Colorimetric	126	293.225	7.5	2.45
Removal of excess free iron	66	305.225	9.3	4.38
Ortho Vitros MicroSlide Systems	22	390.836	30.5	31.75
Calculated from Transferrin	6	263.854	14.0	18.80
Agappe - PRECIPITATION	5	441.840	14.6	36.11









RIQAS

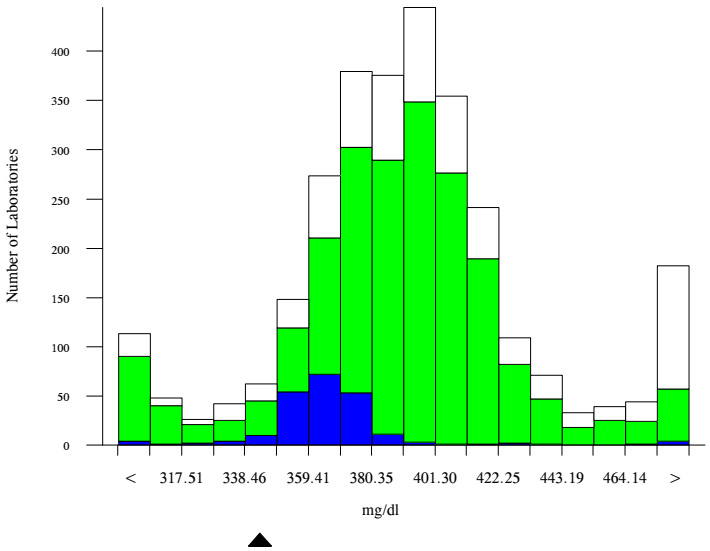
UKAS PROFICIENCY TESTING 0010

Trig Total, mg/dl

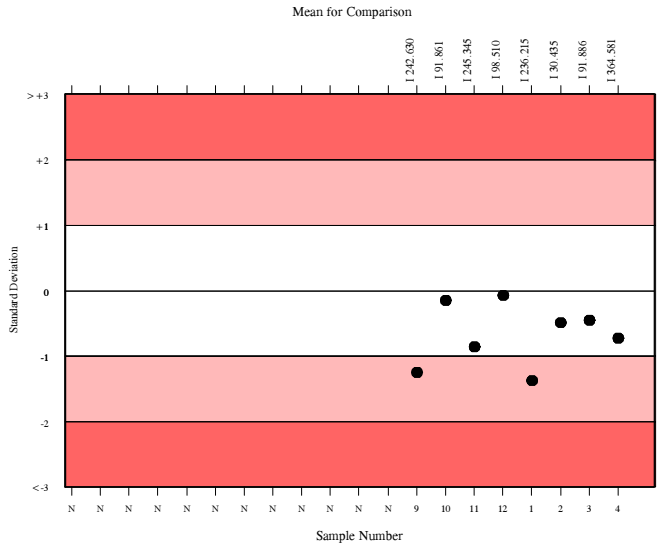
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2656	390.831	7.1	0.67	27.08	329
Lipase/GPO-PAP no correction	1960	389.408	6.0	0.65	26.98	249
Roche Cobas c501/502 e601/602	198	364.581	2.6	0.84	25.27	26

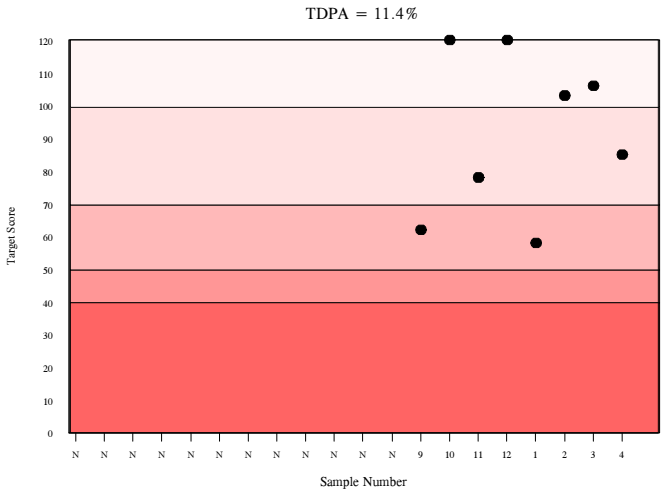
▲ Your Result	346.200	SDI	-0.73
		RMSDI	Too Few
Mean for Comparison	364.581	TS	85
		RMTS	Too Few
		%DEV	-5.0
		RM%DEV	Too Few

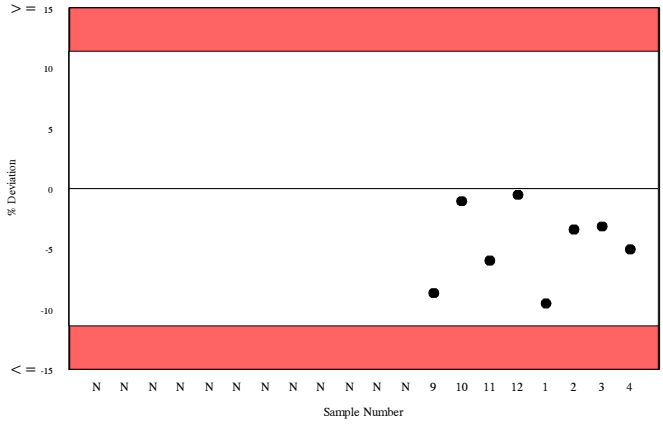
Acceptable limits derived from Biological Variation	25.99%
Acceptable limits of performance for RIQAS	11.40%

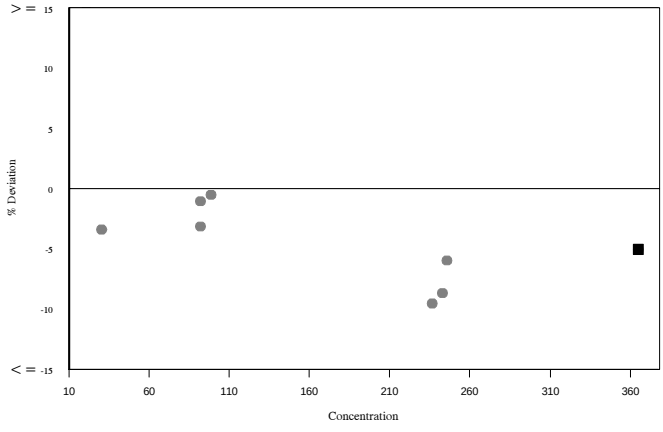


Method	N	Mean	CV%	U_m
Lipase/GPO-PAP no correction	1960	389.408	6.0	0.65
Lipase/GK UV. no correction	242	390.090	6.6	2.06
Lipase/GPO-PAP, 0.11mmol/l correction	150	383.537	6.5	2.53
Ortho Vitros MicroSlide Systems	126	480.155	4.2	2.27
Lipase/Glycerol Dehydrogenase	93	390.016	5.0	2.54
Lipase/GK UV., 0.11 mmol/l correction	43	381.132	5.8	4.23
Agappe - GPO - TOPS	15	405.577	2.8	3.61
Vitros DT60/DT60 II/DTSC II	10	455.538	9.3	16.81
Other Dry Chemistry	6	414.254	15.9	33.50









RIQAS

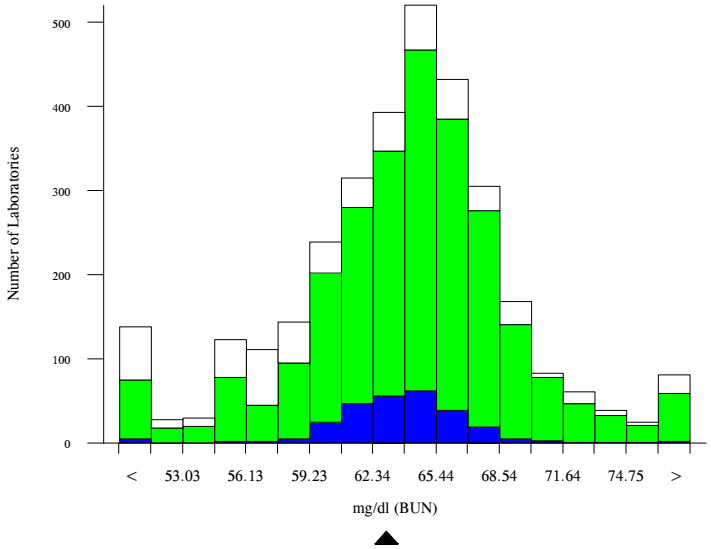
UKAS PROFICIENCY TESTING 0010

Urea, mg/dl (BUN)

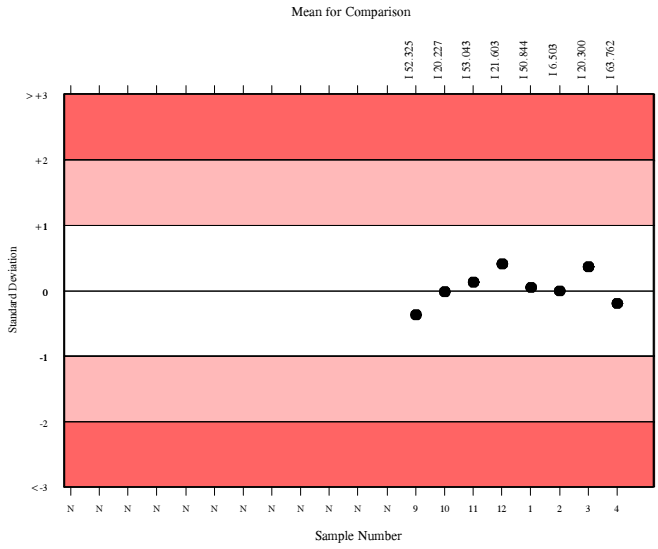
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2960	63.893	6.5	0.09	4.35	277
Urease, kinetic	2448	64.309	5.7	0.09	4.38	221
Roche Cobas c501/502 e601/602	254	63.762	3.5	0.18	4.34	21

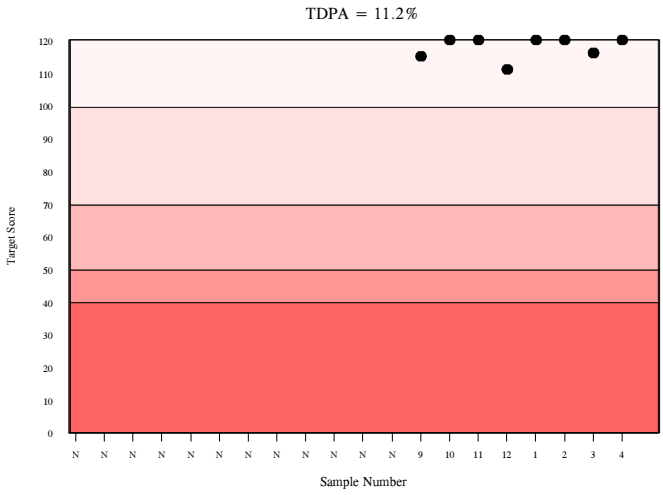
▲ Your Result	62.900	SDI	-0.20
		RMSDI	Too Few
Mean for Comparison	63.762	TS	120
		RMTS	Too Few
		%DEV	-1.4
		RM%DEV	Too Few

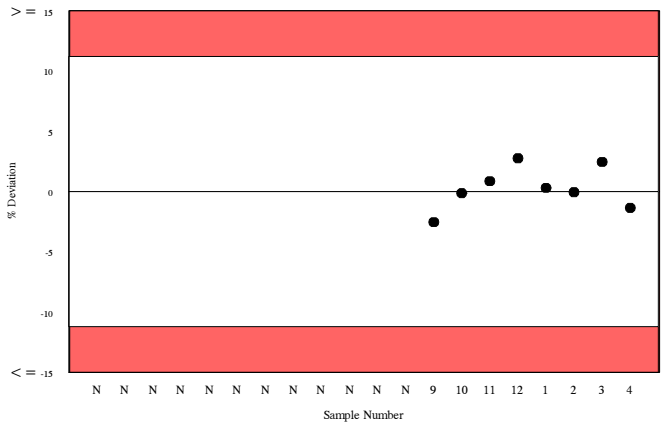
Acceptable limits derived from Biological Variation	15.55%
Acceptable limits of performance for RIQAS	11.20%

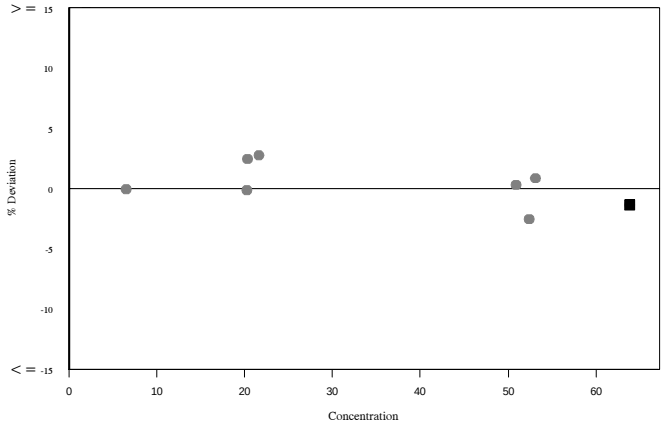


Method	N	Mean	CV%	U_m
Urease, kinetic	2448	64.309	5.7	0.09
Urease, end point	203	64.602	6.1	0.35
Ortho Vitros MicroSlide Systems	127	57.007	2.1	0.13
Urease, hypochlorite	79	53.418	22.1	1.66
Beckman - Conductivity	38	64.197	4.2	0.54
Agappe - UREASE GLDH	20	66.445	5.1	0.94
Vitros DT60/DT60 II	13	58.099	7.3	1.48
Agappe - BERTHELOT	8	65.803	13.1	3.82
Other Dry Chemistry	7	62.866	15.1	4.48
Diacetyl monoxime	4	63.213	4.8	1.90
O-Phthalaldehyde	6	58.069	4.9	1.46









RIQAS

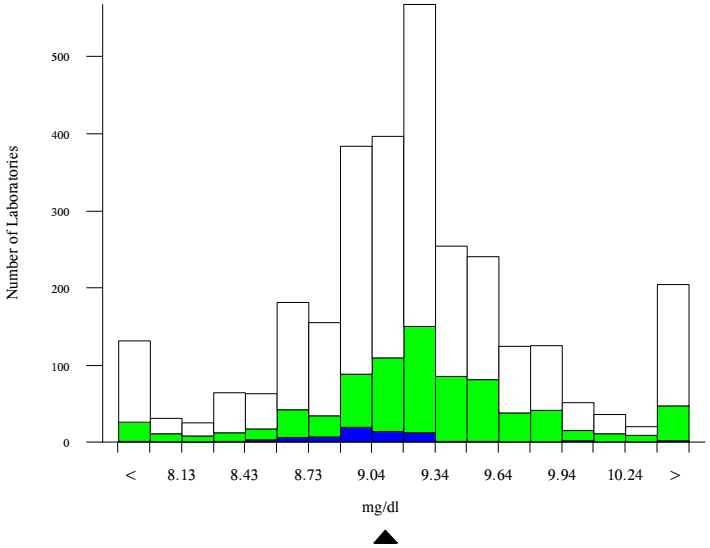
UKAS PROFICIENCY TESTING 0010

Uric Acid (Urate), mg/dl

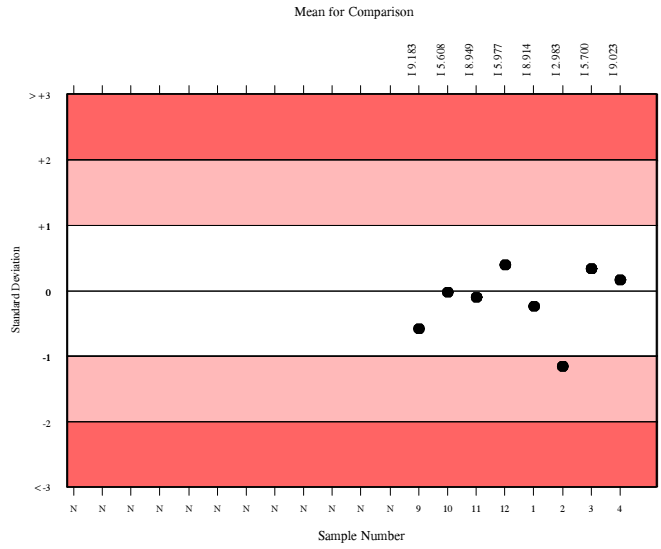
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	2696	9.192	4.4	0.01	0.48	354
Uricase Perox. with ascorb. ox	721	9.247	4.0	0.02	0.49	103
Roche Cobas c501/502 e601/602	59	9.023	2.2	0.03	0.48	10

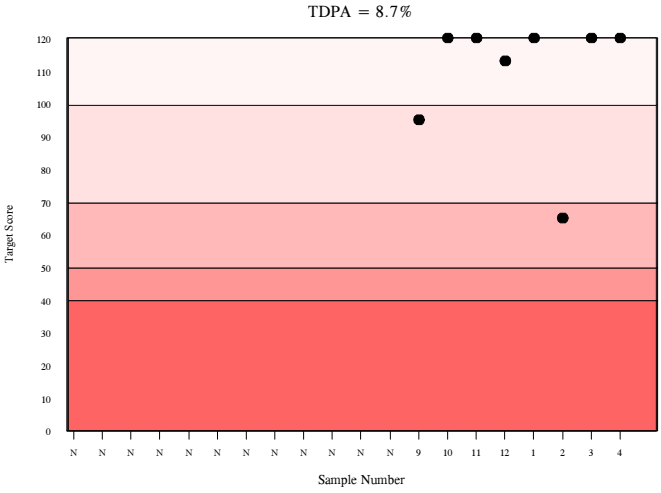
▲ Your Result	9.100	SDI	0.16
		RMSDI	Too Few
Mean for Comparison	9.023	TS	120
		RMTS	Too Few
		%DEV	0.8
		RM%DEV	Too Few

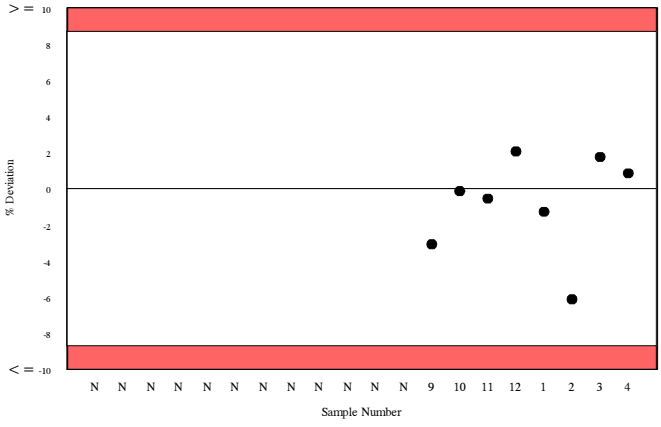
Acceptable limits derived from Biological Variation	11.97%
Acceptable limits of performance for RIQAS	8.70%

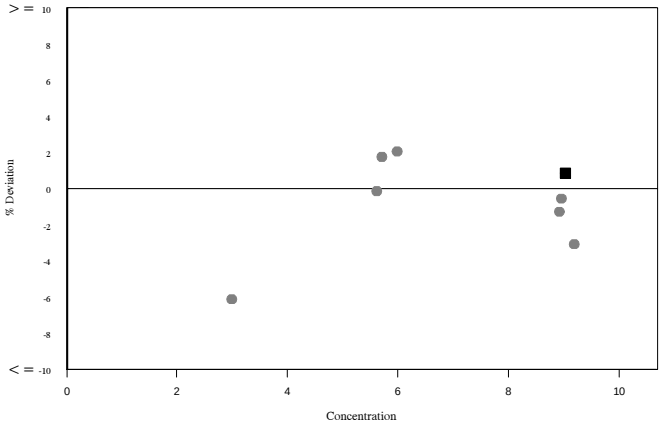


Method	N	Mean	CV%	U_m
Uricase perox. no ascorb. ox.	1170	9.187	4.8	0.02
Uricase Perox. with ascorb. ox	721	9.247	4.0	0.02
Uricase Perox. with ascorb. ox @ 546nm	416	9.175	4.0	0.02
Ortho Vitros MicroSlide Systems	124	9.090	2.1	0.02
Uricase, catalase 340nm.	93	9.202	3.3	0.04
Uricase @ 293 nm	73	9.104	2.6	0.03
Agappe - URICASE - PAP	25	9.218	11.1	0.25
Other Dry Chemistry	13	9.164	4.9	0.16
Vitros DT60/DT60 II	14	9.295	2.8	0.08
Agappe - URICASE - TOPS	9	8.968	4.2	0.16
Reduction methods	8	9.175	10.7	0.43
- select -	2	9.059	0.1	0.01









RIQAS

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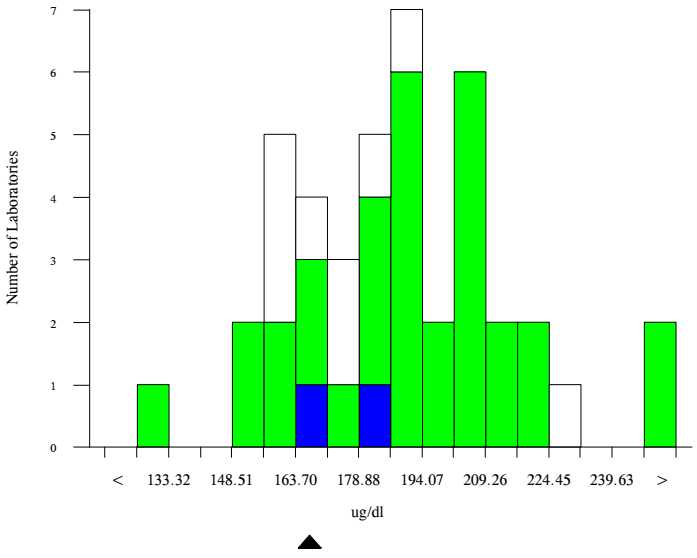
Zinc, ug/dl

	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	39	186.483	10.9	4.05	28.23	4
Colorimetric with deprot.	30	189.311	10.3	4.44	28.66	4
Roche Cobas c501/502 e601/602	2	176.676	4.5	7.09	26.75	0

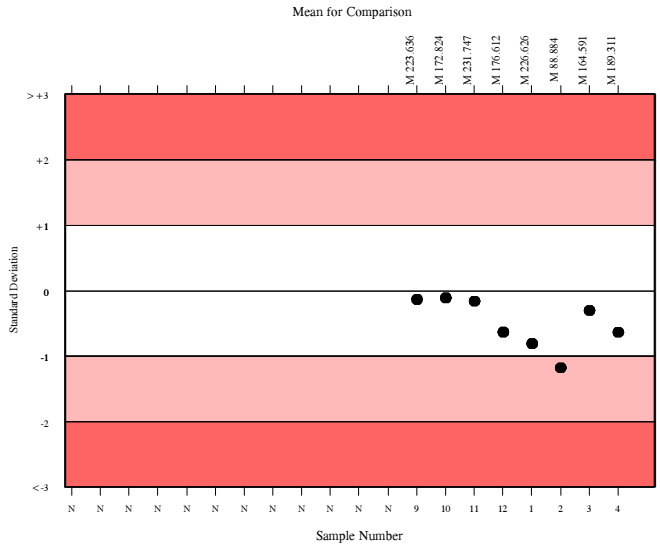
Your Result	171.000	SDI	-0.64
		RMSDI	Too Few
Mean for Comparison	189.311	TS	91
		RMTS	Too Few
		%DEV	-9.7
		RM%DEV	Too Few

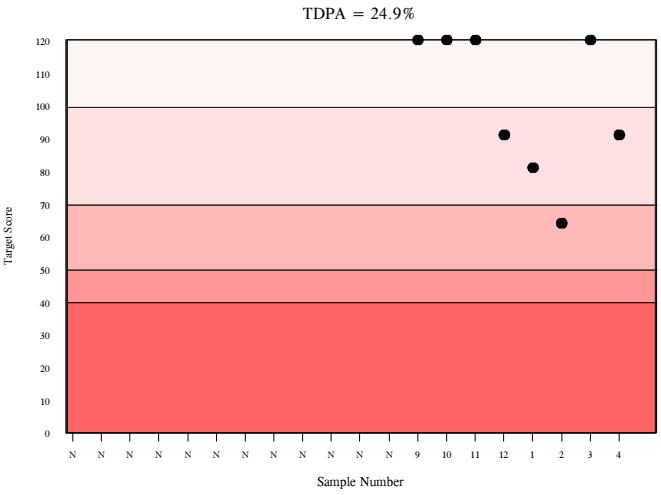
Acceptable limits derived from Biological Variation 11%

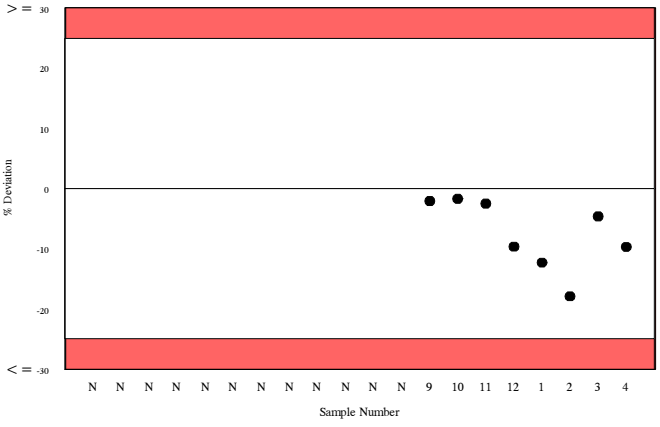
Acceptable limits of performance for RIQAS 24.90%

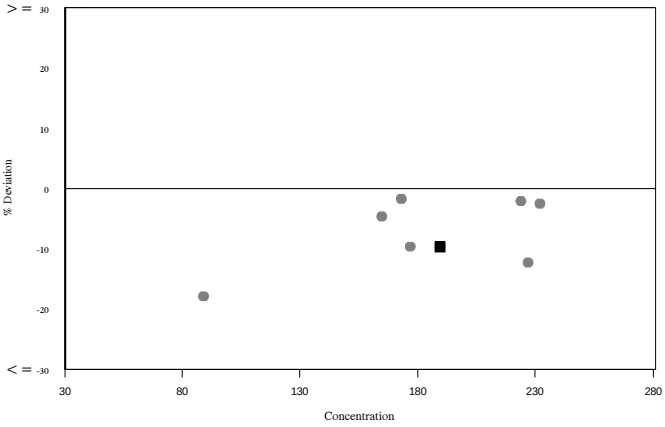


Method	N	Mean	CV%	U_m
Colorimetric with deprot.	30	189.311	10.3	4.44
Atomic absorption	5	167.202	6.3	5.86
Mass Spectrometry	2	194.750	22.0	37.81
- select -	2	184.000	4.6	7.50









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Analyte	Mean for Comparison	Your Result	SDI	RMSDI	%DEV	RM%DEV	TS	RMTS	Performance
Albumin	5.378	5.400	0.08	Too Few	0.4	Too Few	120	Too Few	
Alkaline Phosphatase	209.221	199.000	-0.41	Too Few	-4.9	Too Few	110	Too Few	
ALT (GPT)	134.917	136.300	0.12	Too Few	1.0	Too Few	120	Too Few	
Amylase, Total	546.714	553.000	0.15	Too Few	1.1	Too Few	120	Too Few	
AST (GOT)	180.924	185.500	0.31	Too Few	2.5	Too Few	120	Too Few	
Bilirubin, Direct	1.693	1.600	-0.31	Too Few	-5.5	Too Few	120	Too Few	
Bilirubin, Total	4.672	4.520	-0.35	Too Few	-3.3	Too Few	118	Too Few	
Calcium	13.812	13.600	-0.34	Too Few	-1.5	Too Few	119	Too Few	
Chloride	108.878	106.700	-0.73	Too Few	-2.0	Too Few	85	Too Few	
Cholesterol	286.775	283.200	-0.27	Too Few	-1.2	Too Few	120	Too Few	
CK, Total	566.010	588.000	0.56	Too Few	3.9	Too Few	97	Too Few	
Creatinine	6.226	6.320	0.20	Too Few	1.5	Too Few	120	Too Few	
GGT	138.024	132.900	-0.43	Too Few	-3.7	Too Few	108	Too Few	
Glucose	341.305	336.100	-0.35	Too Few	-1.5	Too Few	117	Too Few	
HDL-Cholesterol	117.208	116.200	-0.07	Too Few	-0.9	Too Few	120	Too Few	
Iron	239.745	236.100	-0.25	Too Few	-1.5	Too Few	120	Too Few	
LD (LDH)	344.087	335.000	-0.30	Too Few	-2.6	Too Few	120	Too Few	
Lipase	92.511	93.070	0.05	Too Few	0.6	Too Few	120	Too Few	
Lithium	2.473	2.510	0.23	Too Few	1.5	Too Few	120	Too Few	
Magnesium	3.965	3.900	-0.26	Too Few	-1.6	Too Few	120	Too Few	
Phosphate, Inorganic	7.540	7.600	0.16	Too Few	0.8	Too Few	120	Too Few	
Potassium	6.500	6.500	0.00	Too Few	0.0	Too Few	120	Too Few	
Protein, Total	7.967	8.100	0.36	Too Few	1.7	Too Few	116	Too Few	
Sodium	155.049	154.000	-0.31	Too Few	-0.7	Too Few	120	Too Few	
TIBC	324.431	334.900	0.29	Too Few	3.2	Too Few	120	Too Few	
Trig Total	364.581	346.200	-0.73	Too Few	-5.0	Too Few	85	Too Few	
Urea	63.762	62.900	-0.20	Too Few	-1.4	Too Few	120	Too Few	
Uric Acid (Urate)	9.023	9.100	0.16	Too Few	0.8	Too Few	120	Too Few	
Zinc	189.311	171.000	-0.64	Too Few	-9.7	Too Few	91	Too Few	

ORMSDI N/A **ORM%DEV N/A** **ORMTS N/A**

END OF REPORT

RIQAS

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