Laboratorio Emotest s.r.l.

MONTHLY CLINICAL CHEMISTRY

CYCLE 20 SAMPLE 6

Explanation of codes used in this report

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

Authorised by: Stephen Doherty, RIQAS Manager | Issue No: 1 | Issue Date: 30/06/2023

Randox Laboratories Limited
55 Diamond Road
CRUMLIN BT29 4QY
Tel: +44 (0)28 9445 4399
Fax: +44 (0)28 9445 4398
Email: mail@riqas.com

RIQAS

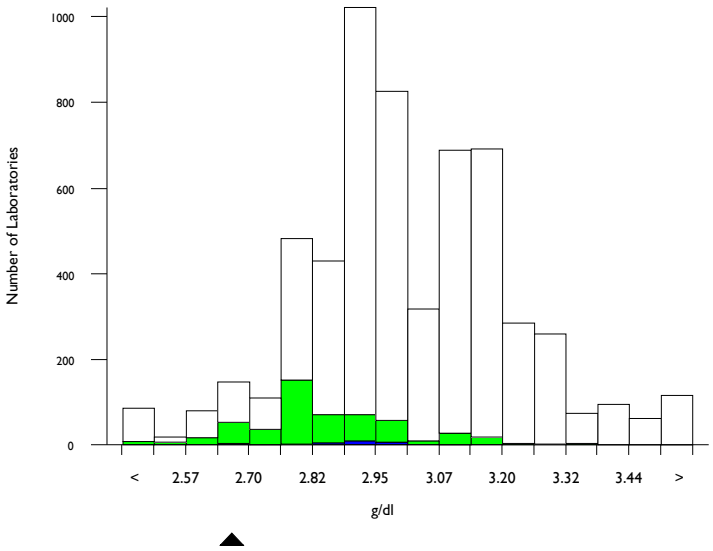
UKAS PROFICIENCY TESTING 0010

Albumin, g/dl

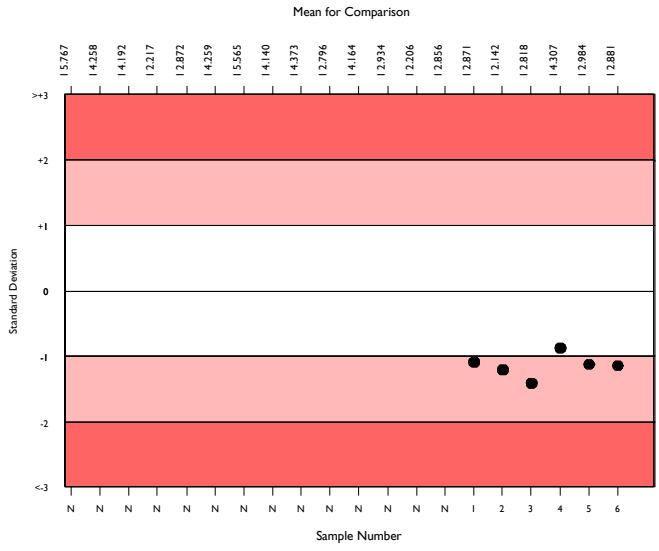
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	5410	3.014	5.5	0.00	0.16	373
Bromocresol Purple	496	2.845	4.2	0.01	0.16	40
Abbott Architect c systems	28	2.881	3.2	0.02	0.16	1

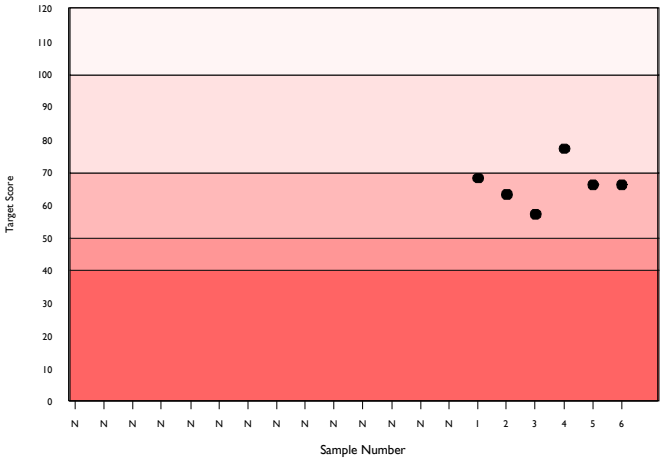
▲ Your Result	2.700	SDI	-1.15
		RMSDI	Too Few
Mean for Comparison	2.881	TS	66
		RMTS	Too Few
		%DEV	-6.3
		RM%DEV	Too Few

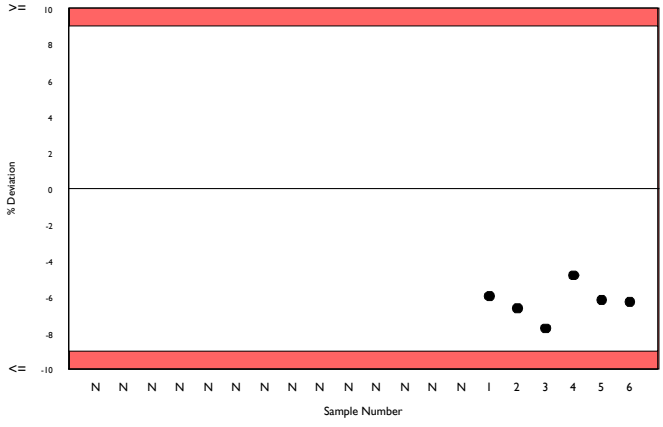
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	9.00%

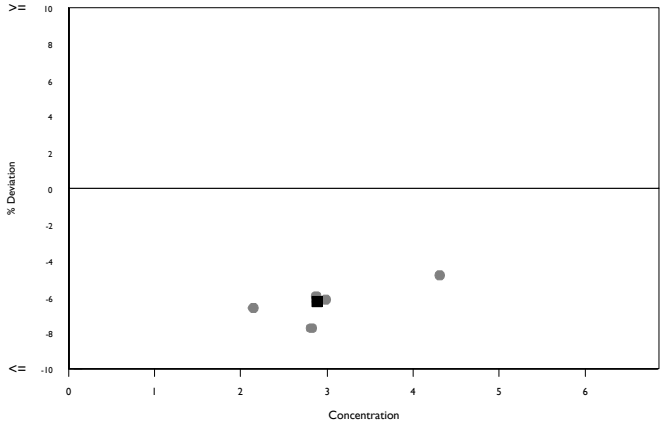


Method	N	Mean	CV%	U_m
Bromocresol Green	4426	3.036	5.2	0.00
Bromocresol Purple	496	2.845	4.2	0.01
Ortho Vitros MicroSlide Systems	209	2.956	3.6	0.01
Abbott Alinity Albumin BCG 2	75	2.889	1.2	0.00
Agappe - Bromocresol Green	63	3.102	7.4	0.04
Other Dry Chemistry	41	3.406	3.8	0.03
Turbidimetric Assays	36	3.052	8.5	0.05
Abbott Architect Albumin BCG 2	24	2.902	0.3	0.00
Abbott Architect Albumin BCP 2	9	2.702	0.2	0.00
Nephelometric Assays	7	2.824	4.7	0.06
Abbott Alinity Albumin BCP 2	7	2.727	4.0	0.05
Electrophoresis	2	2.933	0.3	0.01









RIQAS

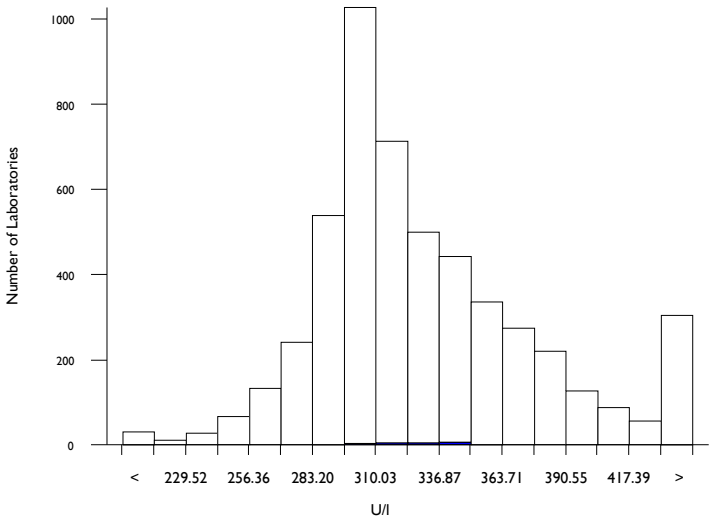
UKAS PROFICIENCY TESTING 0010

Alkaline Phosphatase, U/l @ 37°C

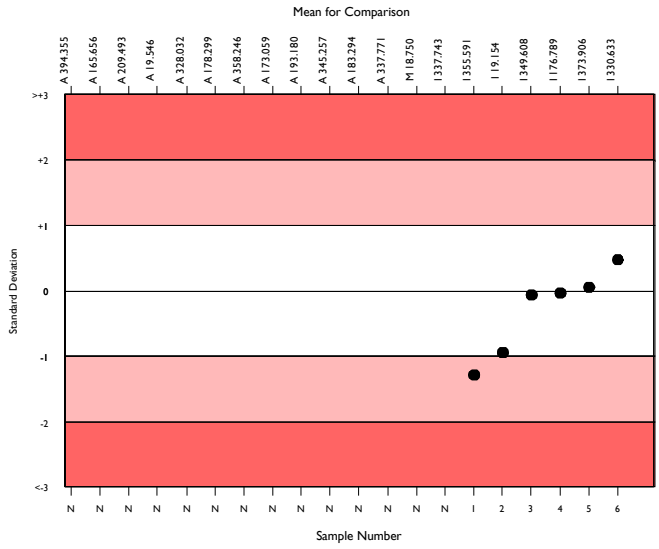
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	4737	323.458	11.1	0.65	36.38	392
Abbott Architect Alkaline Phosphatase 2	20	330.633	5.0	4.61	37.19	3
Abbott Architect c systems	20	330.633	5.0	4.61	37.19	3

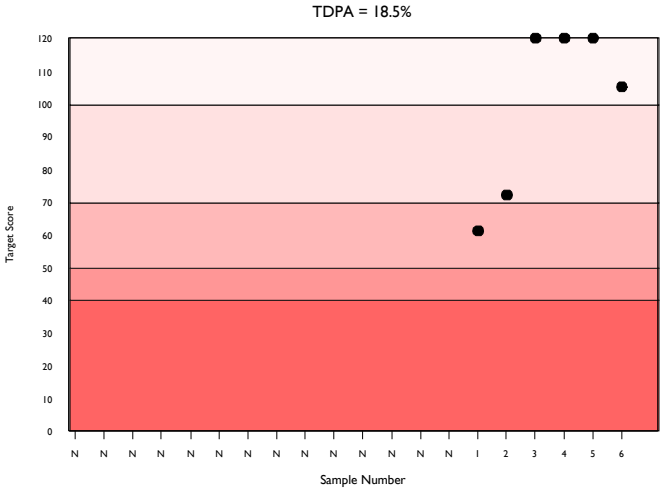
Your Result	348.000	SDI	0.47
		RMSDI	Too Few
Mean for Comparison	330.633	TS	105
		RMTS	Too Few
		%DEV	5.3
		RM%DEV	Too Few

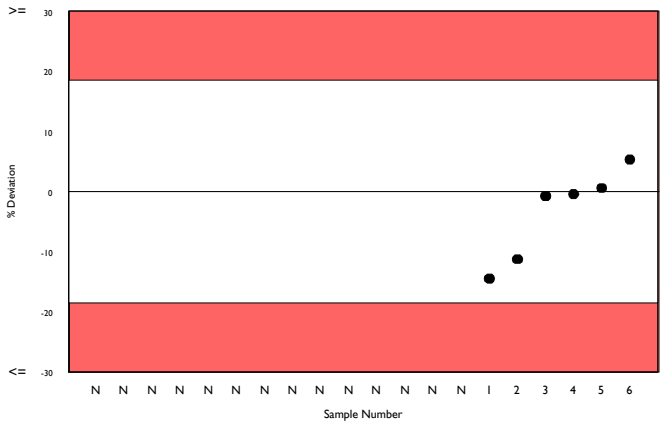
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	18.50%

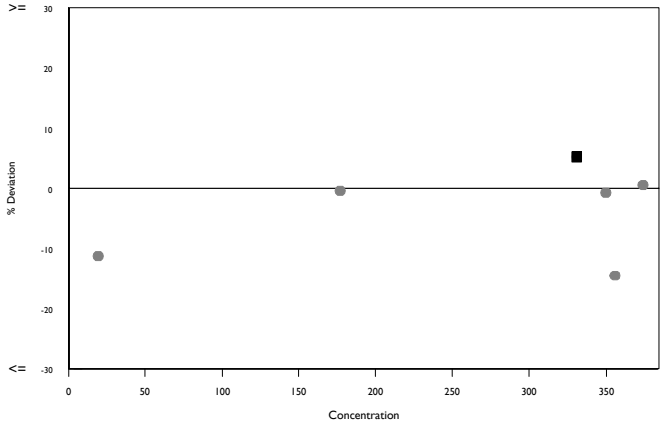


Method	N	Mean	CV%	U_m
AMP optimised to IFCC	1978	330.689	9.1	0.85
Roche AMP buffer IFCC	1162	304.134	4.0	0.45
Diethanolamine buffer, DEA	466	419.782	14.2	3.44
Ortho Vitros MicroSlide Systems	226	273.287	6.5	1.47
AMP non-optimised	213	333.827	7.2	2.05
Siemens/Dade Dimension AMP buffer	216	301.929	3.1	0.79
Beckman AMP (Calibrator)	121	364.763	5.5	2.27
Colorimetric	108	316.889	9.8	3.73
Agappe - DGKC-SCE	50	394.051	8.1	5.68
Other AMP kits	43	321.798	5.5	3.37
Other Dry Chemistry	40	359.131	9.0	6.42
Abbott Alinity Alkaline Phosphatase 2	37	335.202	5.4	3.75
Beckman AMP (Extinction Coeff)	24	362.539	5.2	4.81
Abbott Architect Alkaline Phosphatase 2	20	330.633	5.0	4.61
Fuji Dri-Chem JSCC	10	356.520	3.0	4.30
AMP optimised to NVKC/SFBC	8	375.533	19.1	31.75
AMPD optimised to JSCC	4	340.500	9.3	19.86
Tris/carbonate buffer	2	296.800	1.0	2.75









RIQAS

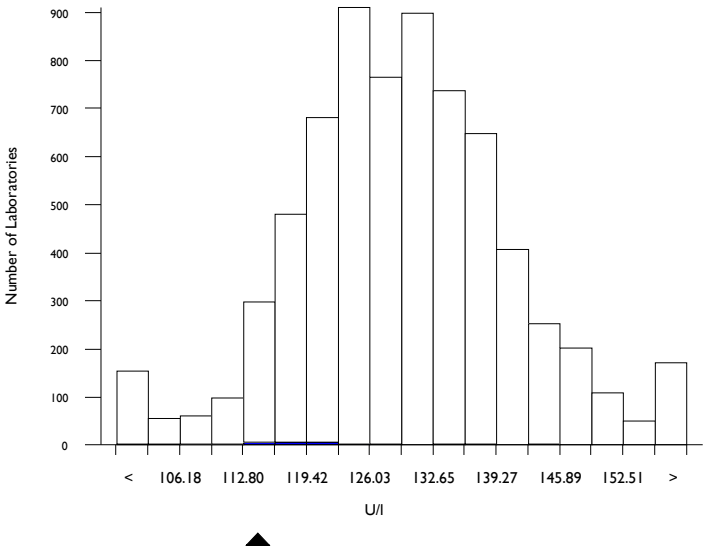
UKAS PROFICIENCY TESTING 0010

ALT (GPT), U/l @ 37°C

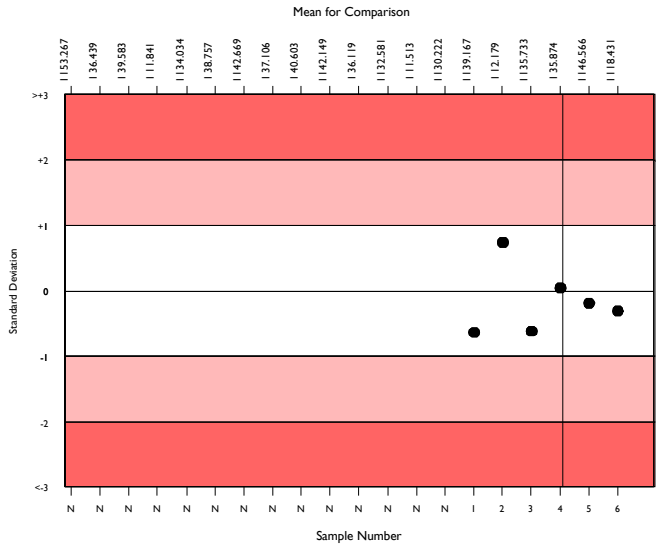
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	6445	129.349	6.8	0.14	11.87	528
Abbott Architect ALT 2	27	118.431	5.7	1.63	10.87	3
Abbott Architect c systems	27	118.431	5.7	1.63	10.87	3

Your Result	115.000	SDI	-0.32
		RMSDI	Too Few
Mean for Comparison	118.431	TS	120
		RMTS	Too Few
		%DEV	-2.9
		RM%DEV	Too Few

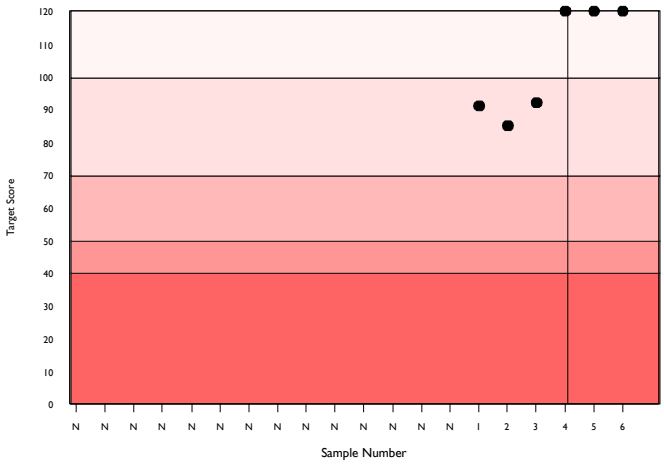
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	15.10%

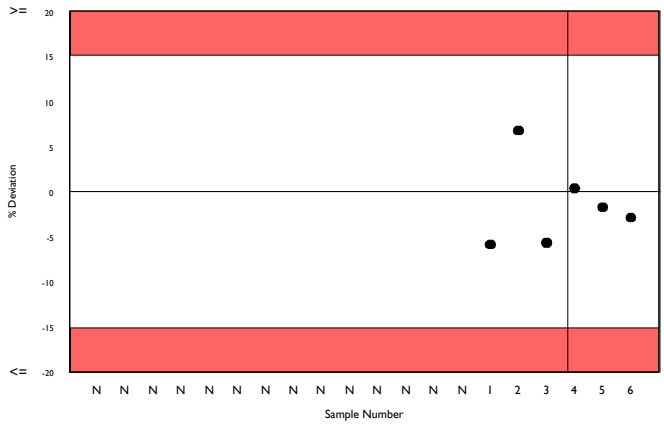


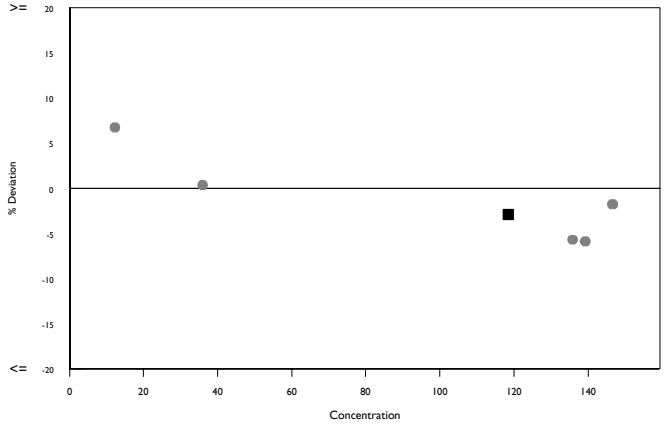
Method	N	Mean	CV%	U_m
Tris buffer without P5P	4110	127.687	7.1	0.18
Beckman Mod. IFCC Ref. without P5P	767	132.084	3.8	0.23
Tris buffer with P5P	665	133.040	5.8	0.37
Ortho Vitros MicroSlide Systems	159	129.771	4.6	0.59
Siemens/Dade standard nonIFCC correlated	157	140.131	3.4	0.48
Beckman IFCC Ref. with P5P	108	132.466	5.1	0.81
Agappe - IFCC	87	135.246	6.8	1.22
Ortho Vitros MicroSlide visible	69	128.416	3.6	0.70
Colorimetric	68	128.717	7.2	1.40
Other Dry Chemistry	59	127.819	5.1	1.05
Abbott Alinity ALT 2	42	118.829	4.3	0.98
Abbott Architect ALT 2	27	118.431	5.7	1.63
Phosphate buffer, DGKC	23	138.457	7.7	2.79
Tris buffer with P5P, NVKC	13	133.985	7.0	3.24
Tris buffer, SCE	12	120.960	9.5	4.13
Beckman (Extinction Coefficient)	9	130.880	2.0	1.11
LDH - JSCC	6	123.667	7.4	4.66



TDPA = 15.1%







RIQAS

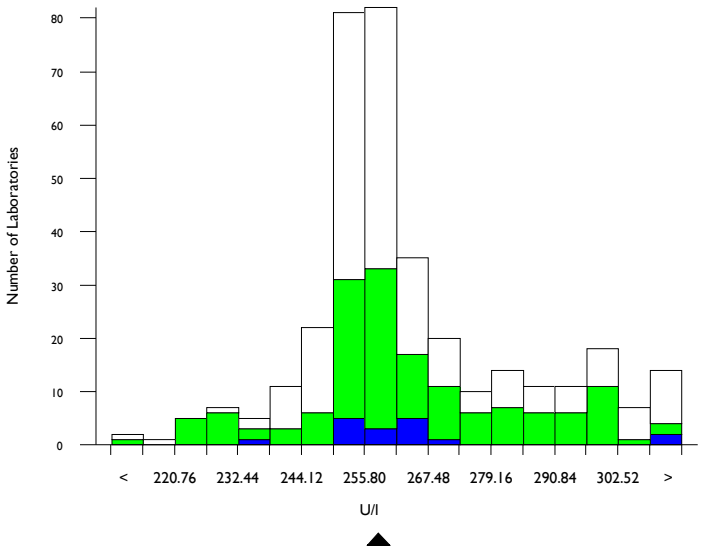
UKAS PROFICIENCY TESTING 0010

Amylase, Pancreatic, U/l @ 37°C

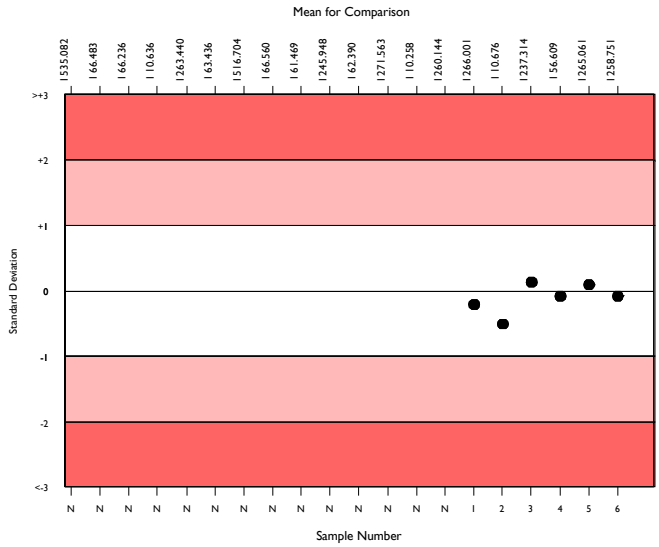
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	325	261.649	6.0	1.08	32.29	31
Immunoinhibition, EPS substrate	147	263.549	6.7	1.82	32.53	10
Abbott Architect c systems	14	258.751	2.1	1.84	31.93	3

▲ Your Result	256.000	SDI	-0.09
		RMSDI	Too Few
Mean for Comparison	258.751	TS	120
		RMTS	Too Few
		%DEV	-1.1
		RM%DEV	Too Few

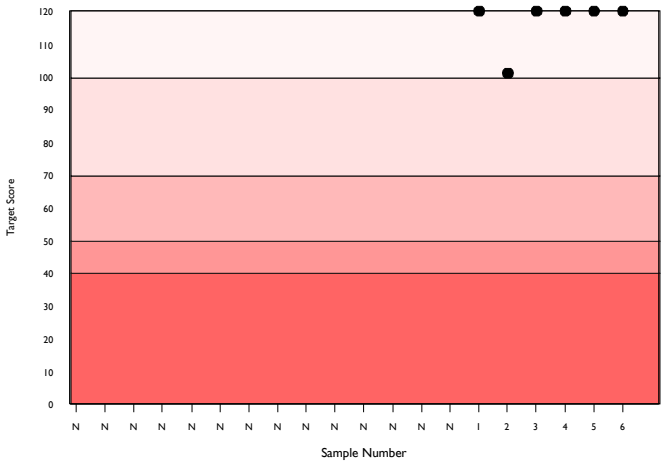
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	20.30%

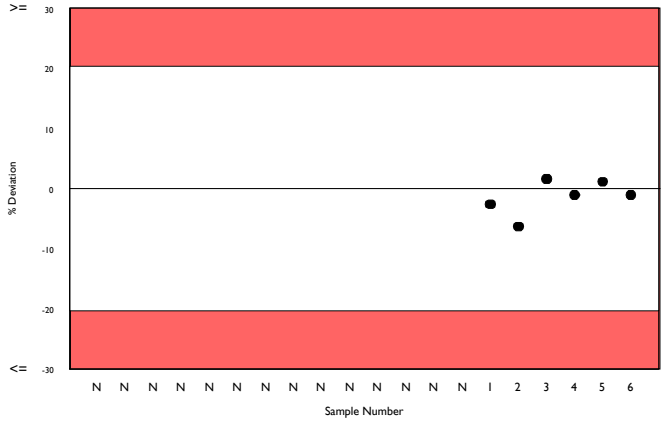


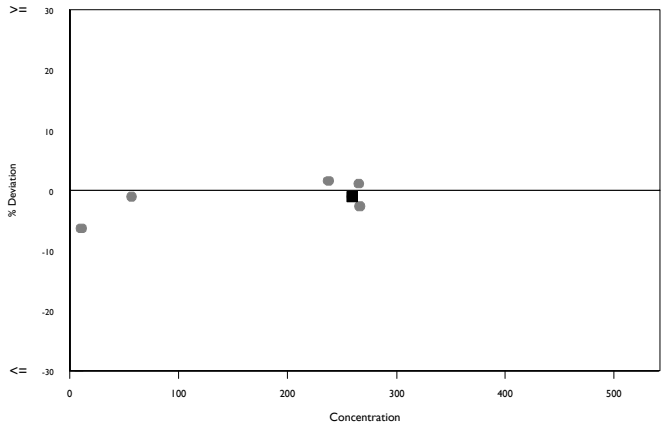
Method	N	Mean	CV%	U_m
Immunoinhibition, EPS substrate	147	263.549	6.7	1.82
Roche Liquid Stable pNPG7	134	256.186	2.7	0.74
Amyloclastic Methods	22	300.213	9.2	7.36
Randox Liquid Stable pNPG7	11	281.084	5.6	5.98
Beckman Synchron/CX/LXi/DxC	9	273.685	11.2	12.72
Other Dry Chemistry	5	254.660	4.3	6.07



TDPA = 20.3%







RIQAS

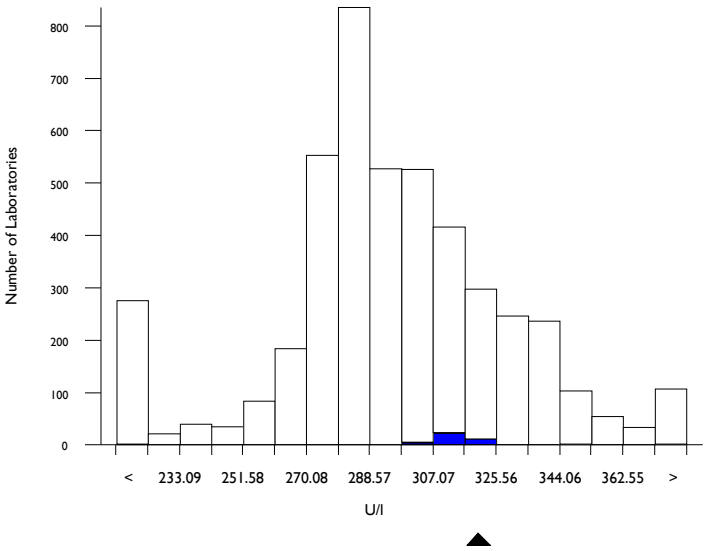
UKAS PROFICIENCY TESTING 0010

Amylase, Total, U/l @ 37°C

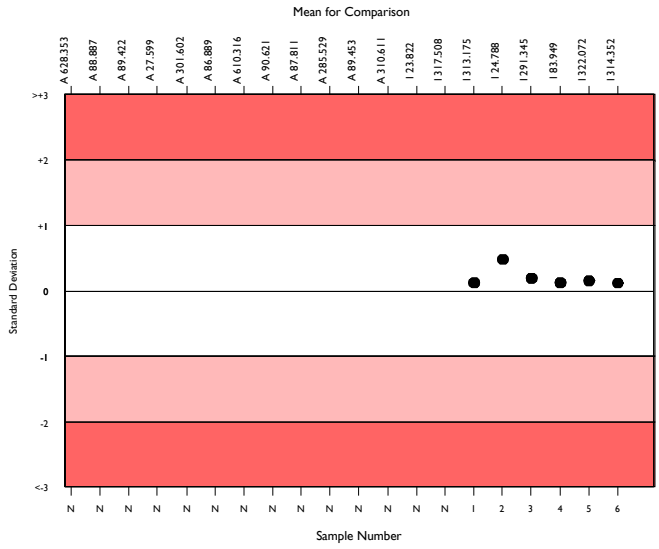
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	4164	297.825	8.3	0.48	30.60	405
Abbott Architect Amylase 2	37	313.872	1.6	1.02	32.25	5
Abbott Architect c systems	33	314.352	1.3	0.86	32.30	6

Your Result	318.000	SDI	0.11
		RMSDI	Too Few
Mean for Comparison	314.352	TS	120
		RMTS	Too Few
		%DEV	1.2
		RM%DEV	Too Few

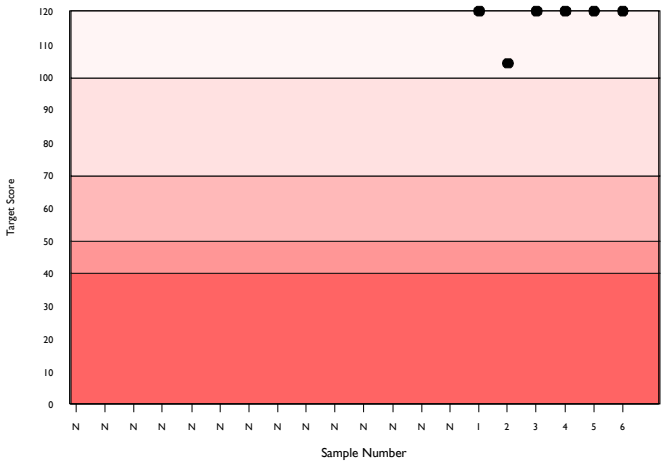
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	16.90%

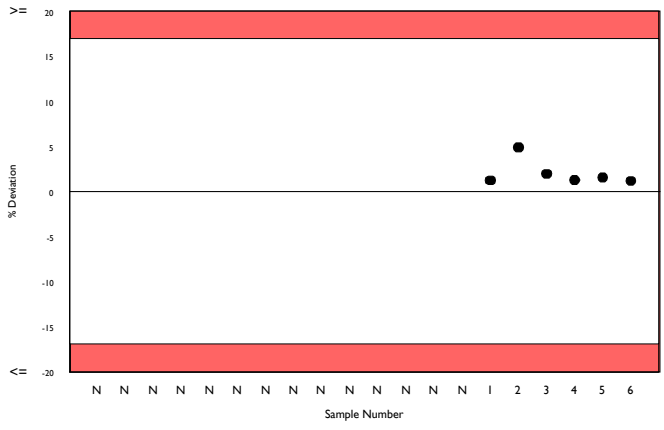


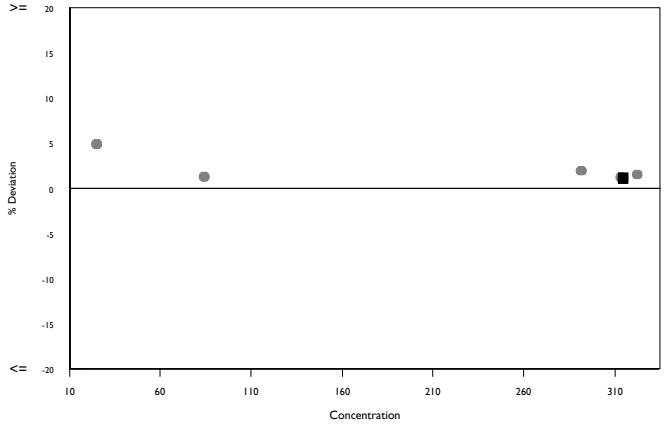
Method	N	Mean	CV%	U_m
Other 2-chloro-pNPG3	899	298.516	9.5	1.18
Roche liquid stable pNPG7	862	280.597	2.2	0.26
Beckman Olympus blocked pNPG7	220	296.745	3.8	0.96
Siemens/Dade Behring 2-chloro-pNPG3	217	339.905	2.2	0.64
Beckman CNPG3 (Master Cal)	200	293.977	4.0	1.04
Siemens - blocked pNPG7	161	318.140	5.1	1.59
Ortho Vitros MicroSlide Systems	152	183.022	4.5	0.83
Other - blocked pNPG7	132	299.326	6.7	2.18
Other non blocked pNPG7	111	296.476	5.9	2.06
Randox Liquid Ethylidene pNPG7	112	307.592	6.0	2.17
Abbott Architect/Alinity cal factor 3431	108	316.464	2.4	0.93
Roche Integra 2-chloro-pNPG7	75	283.667	2.3	0.93
Abbott Alinity Amylase 2	73	314.992	1.2	0.56
Human CNPG3 (IFCC)	61	302.700	5.8	2.80
Beckman Synchron AMY7	62	299.745	3.3	1.59
Agappe - CNPG3	59	306.859	5.5	2.74
BM/Roche Colorimetric pNPG7	55	280.994	2.7	1.29
Wiener Amilokit (AU/dl)	50	206.856	16.7	6.09
Other 2-chloro-pNP-linked sub.	52	302.713	9.5	4.96
pNP Maltotrioside substrates	49	305.812	7.6	4.15
Beckman CNPG3 (Extinction Coeff)	42	299.269	4.3	2.47



TDPA = 16.9%







RIQAS

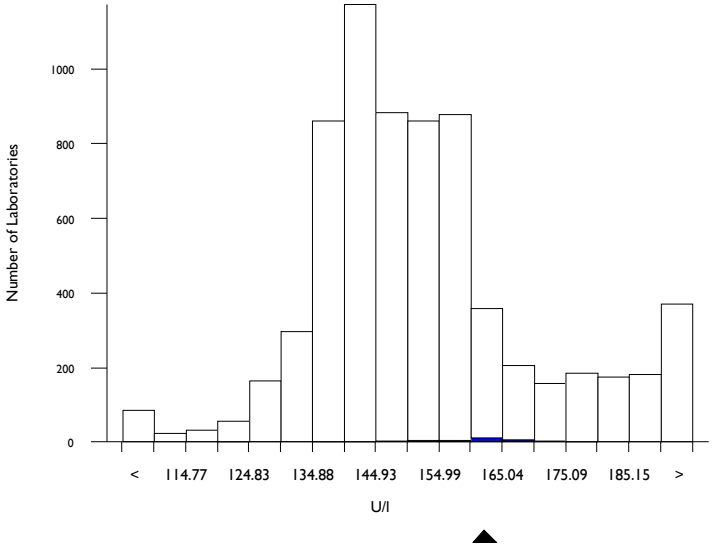
UKAS PROFICIENCY TESTING 0010

AST (GOT), U/l @ 37°C

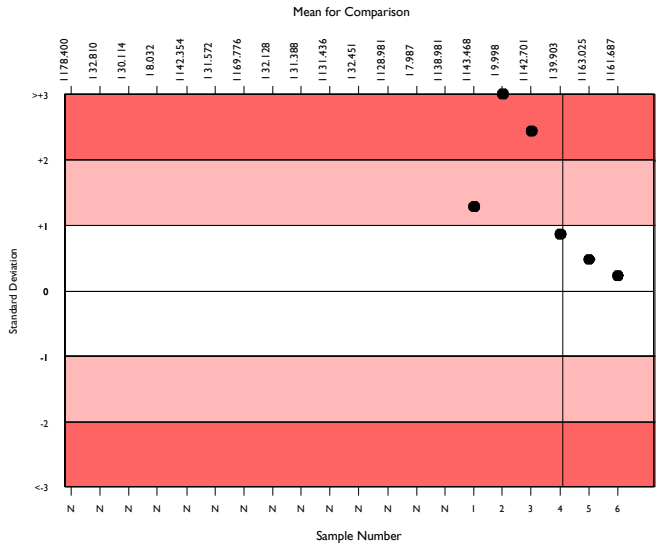
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	6324	149.965	8.9	0.21	13.49	608
Abbott Architect AST 2	31	161.687	4.9	1.79	14.55	3
Abbott Architect c systems	31	161.687	4.9	1.79	14.55	3

Your Result	165.000	SDI	0.23
		RMSDI	Too Few
Mean for Comparison	161.687	TS	120
		RMTS	Too Few
		%DEV	2.0
		RM%DEV	Too Few

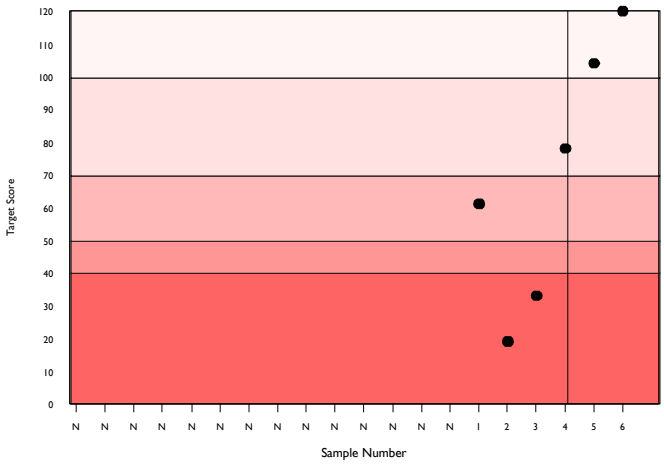
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	14.80%

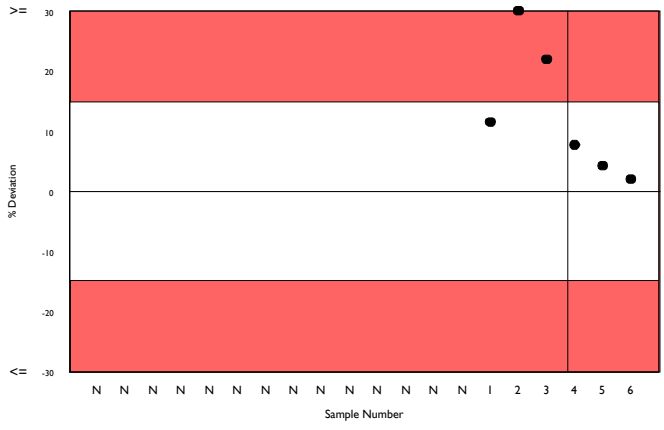


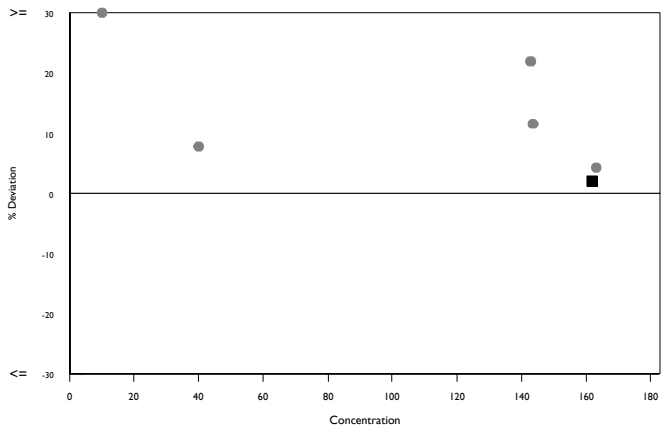
Method	N	Mean	CV%	U_m
Tris buffer without P5P	4111	145.359	6.4	0.18
Beckman Mod. IFCC Ref. without P5P	788	153.839	3.6	0.25
Tris buffer with P5P	652	174.637	10.3	0.88
Ortho Vitros MicroSlide visible	227	190.160	4.1	0.64
Siemens/Dade standard non IFCC corr.	170	178.023	6.6	1.13
Beckman IFCC Ref. with P5P	86	154.351	4.6	0.95
Agappe - IFCC	91	143.132	6.2	1.17
Other Dry Chemistry	56	150.148	2.7	0.68
Colorimetric	60	147.136	7.6	1.80
Abbott Alinity AST 2	40	160.280	6.1	1.92
Abbott Architect AST 2	31	161.687	4.9	1.79
Phosphate buffer, DGKC	24	152.517	8.0	3.10
Tris buffer with P5P, NVKC	15	138.971	7.9	3.53
Tris buffer, SCE	11	146.406	9.1	5.05
Beckman (Extinction Coefficient)	10	154.667	3.6	2.20
MDH - JSCC	3	152.333	23.2	25.51
Vitros DT60/DT60 II/DTSC II	2	151.500	2.3	3.12



TDPA = 14.8%







RIQAS

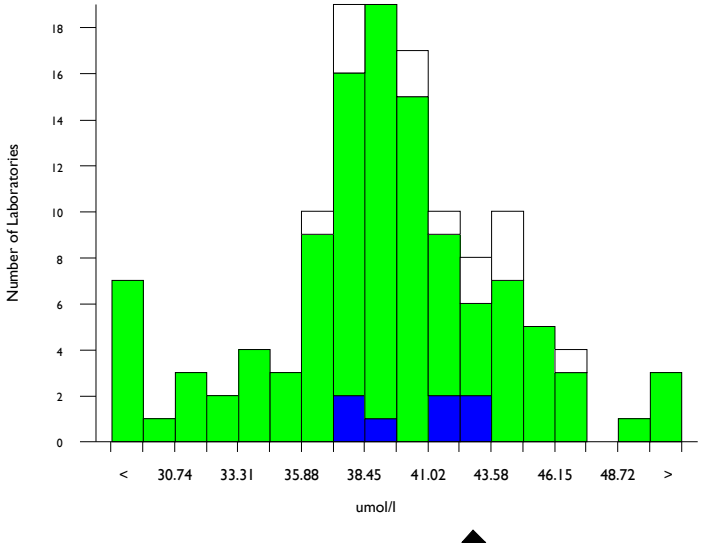
UKAS PROFICIENCY TESTING 0010

Bile Acids, umol/l

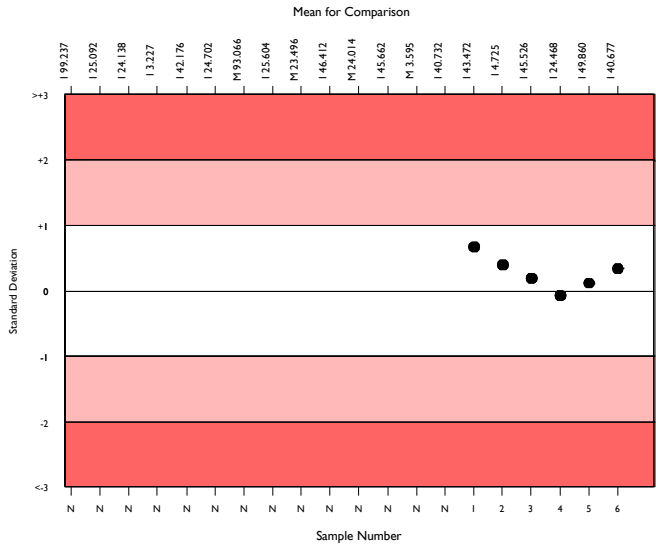
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	114	39.737	8.6	0.40	5.92	12
Enzymatic Colorimetric	101	39.558	8.7	0.43	5.89	12
Abbott Architect c systems	7	40.677	5.0	0.96	6.06	0

Your Result	42.700	SDI	0.33
		RMSDI	Too Few
Mean for Comparison	40.677	TS	119
		RMTS	Too Few
		%DEV	5.0
		RM%DEV	Too Few

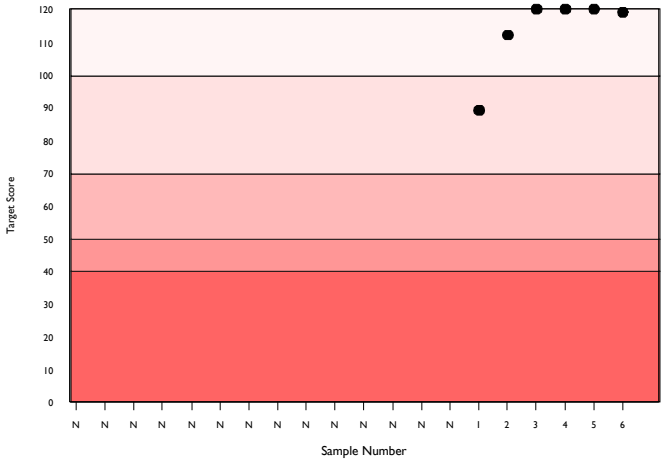
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	24.50%

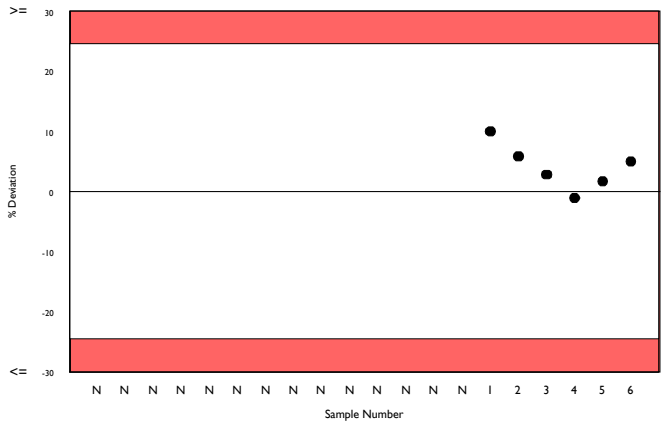


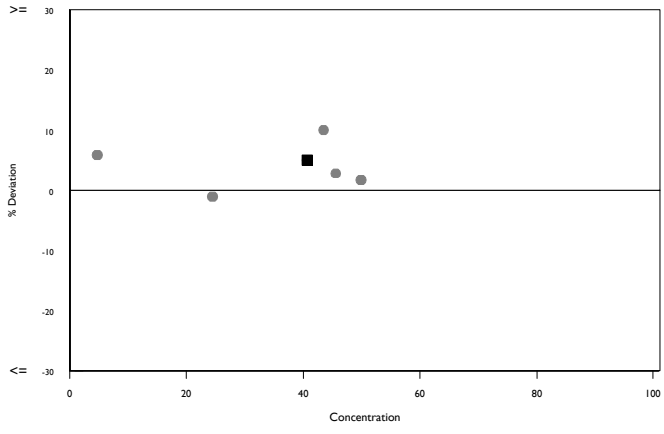
Method	N	Mean	CV%	U_m
Enzymatic Colorimetric	101	39.558	8.7	0.43
Enzymatic Colorimetric - Sentinel	13	41.125	7.5	1.07



TDPA = 24.5%







RIQAS

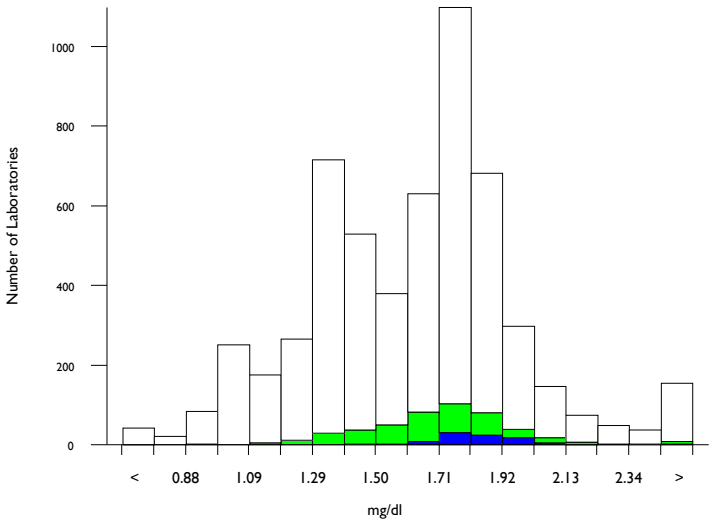
UKAS PROFICIENCY TESTING 0010

Bilirubin, Direct, mg/dl

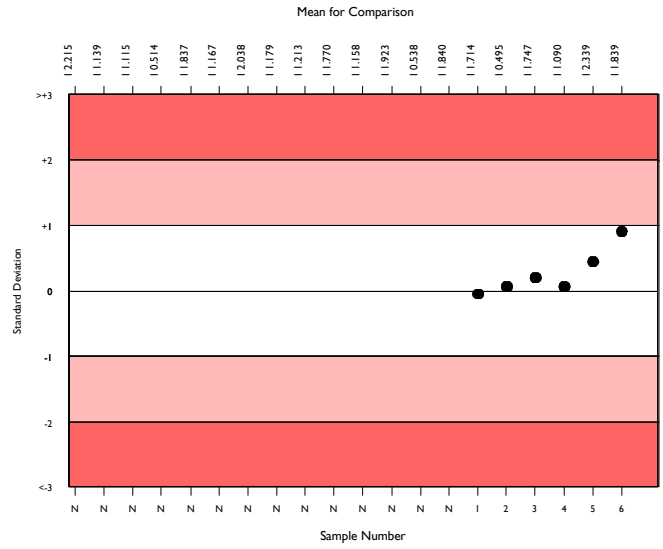
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	5262	1.613	17.3	0.00	0.25	370
Diazo with Dichloroanaline	447	1.719	11.0	0.01	0.27	36
Abbott Architect c systems	86	1.839	5.2	0.01	0.29	10

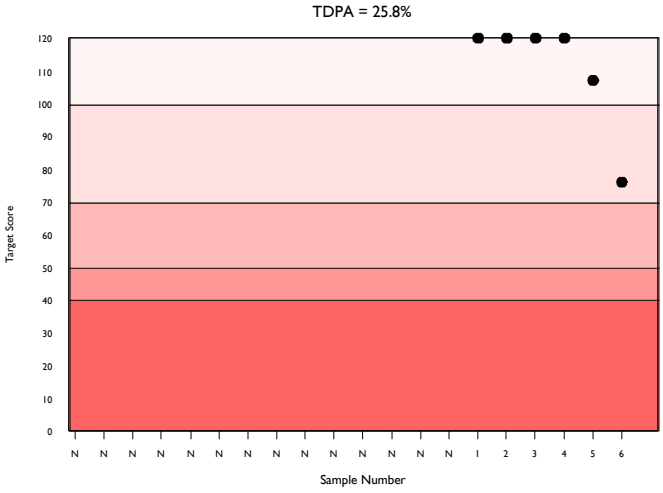
▲ Your Result	2.100	SDI	0.90
		RMSDI	Too Few
Mean for Comparison	1.839	TS	76
		RMTS	Too Few
		%DEV	14.2
		RM%DEV	Too Few

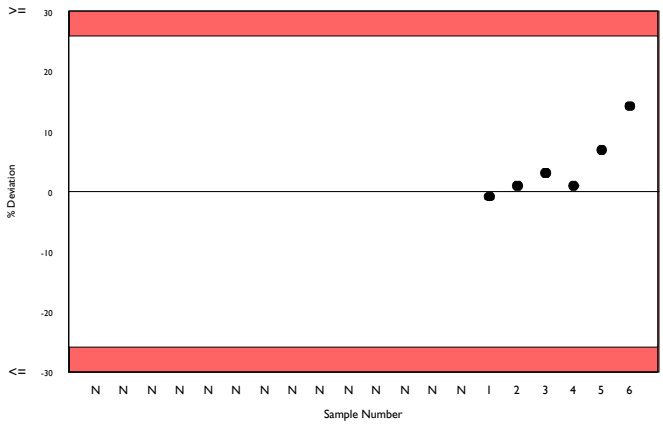
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	25.80%

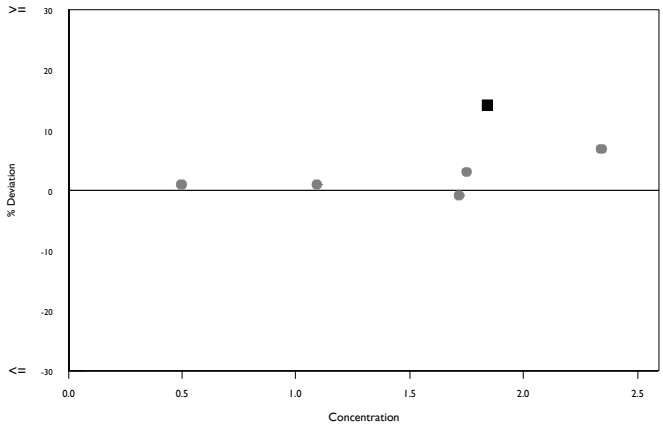


Method	N	Mean	CV%	U_m
Diazo with Sulphanilic Acid	1889	1.631	16.3	0.01
Dichlorophenyl Diazonium	1484	1.576	15.5	0.01
Diazo with Dichloroanaline	447	1.719	11.0	0.01
Roche DPD JG standardised	357	1.813	4.1	0.00
Oxidation to Biliverdin/Vanadate	350	1.798	7.5	0.01
Diazo/ Sulphanilic Siemens Dimension	256	1.051	4.8	0.00
Roche DPD Doumas standardised	194	1.649	10.8	0.02
Diazo/Sulphanilic Beckman DxC	104	1.346	8.2	0.01
Agappe - DIAZO	61	0.970	14.9	0.02
Other Dry Chemistry	44	2.457	7.5	0.03
Direct Spectrophotometry	5	1.983	24.5	0.27
Roche (US calibrator only)	4	1.702	11.9	0.13









RIQAS

UKAS PROFICIENCY TESTING 0010

Bilirubin, Total, mg/dl

	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	5770	4.898	8.0	0.01	0.47	458
Diazo with Dichloroaniline	471	5.046	8.9	0.03	0.49	34
Abbott Architect c systems	126	5.218	10.3	0.06	0.50	5

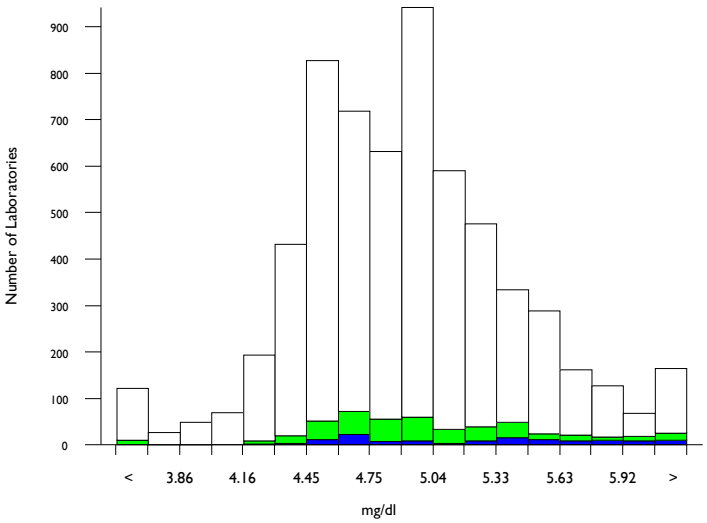
▲ Your Result	6.300	SDI	2.15
		RMSDI	Too Few
Mean for Comparison	5.218	TS	38
		RMTS	Too Few
		%DEV	20.7
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation N/A

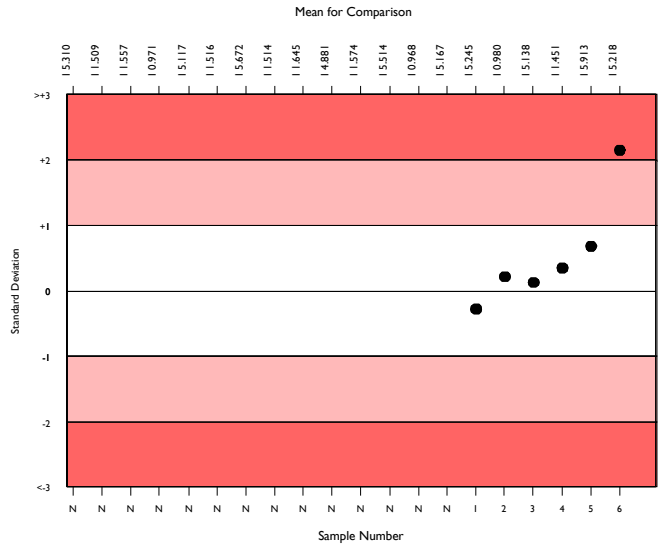
Acceptable limits of performance for RIQAS 15.90%

SDI in bottom 5% of peer group

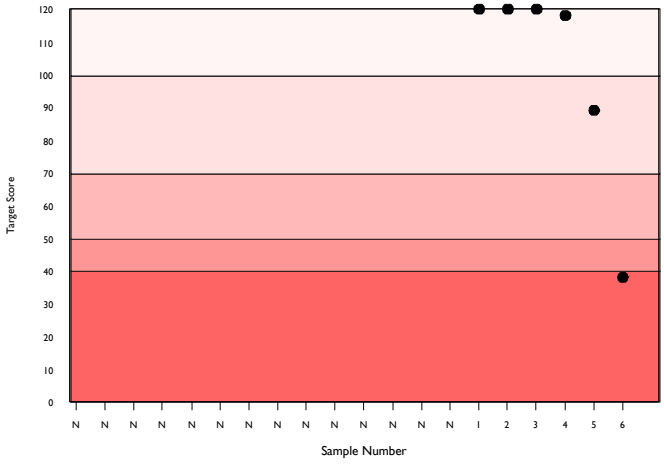
TS & %DEV outside limits

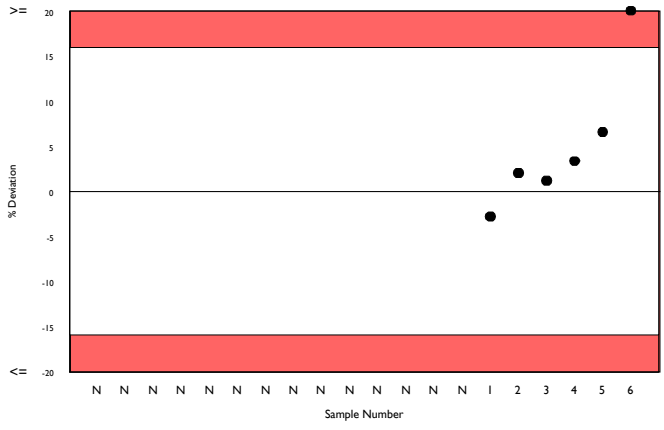


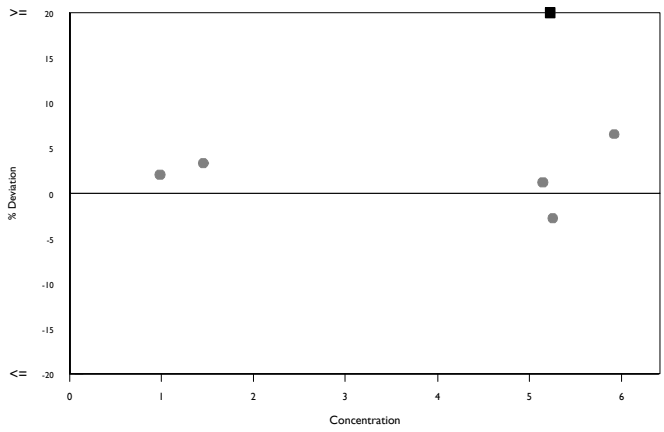
Method	N	Mean	CV%	U_m
Diazo with Sulphanilic Acid	2174	4.983	7.3	0.01
Dichlorophenyl Diazonium	1266	4.677	6.1	0.01
DPD (Beckman AU)	519	5.031	3.4	0.01
Diazonium ion	511	4.662	6.5	0.02
Diazo with Dichloroaniline	471	5.046	8.9	0.03
Oxidation to Biliverdin/Vanadate	379	5.451	6.5	0.02
Ortho Vitros MicroSlide System Total Bil	196	4.569	6.4	0.03
Agappe - TAB	54	4.617	9.5	0.07
Other Dry Chemistry	54	4.616	4.8	0.04
Nitrobenzenediazonium Salt	25	4.640	4.1	0.05
Abbott Alinity Total Bilirubin 2	19	5.094	7.4	0.11
Agappe - DMSO	11	4.958	6.9	0.13
Direct Spectrophotometry	8	4.819	4.7	0.10
Abbott Architect Total Bilirubin 2	10	5.190	8.3	0.17
Vitros DT60/DT60 II Total Bil	4	4.825	19.8	0.60
Assel - DMSO	2	5.510	2.8	0.14



TDPA = 15.9%







RIQAS

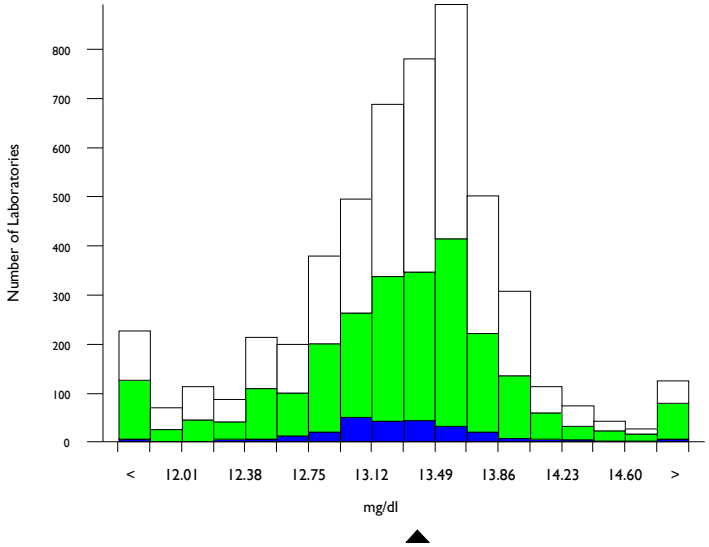
UKAS PROFICIENCY TESTING 0010

Calcium, mg/dl

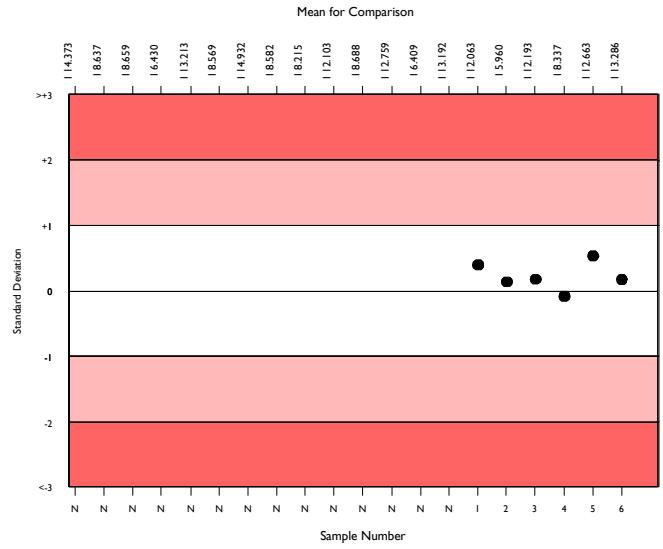
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	4920	13.312	3.7	0.01	0.67	406
Arsenazo	2347	13.299	3.7	0.01	0.67	218
Abbott Architect c systems	234	13.286	2.6	0.03	0.67	26

▲ Your Result	13.400	SDI	0.17
		RMSDI	Too Few
Mean for Comparison	13.286	TS	120
		RMTS	Too Few
		%DEV	0.9
		RM%DEV	Too Few

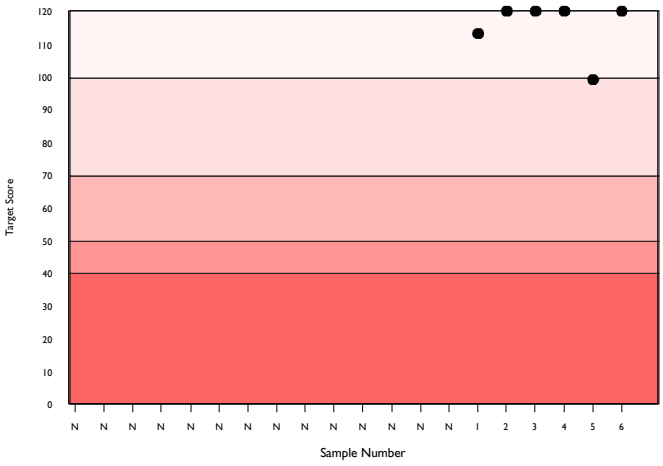
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	8.30%

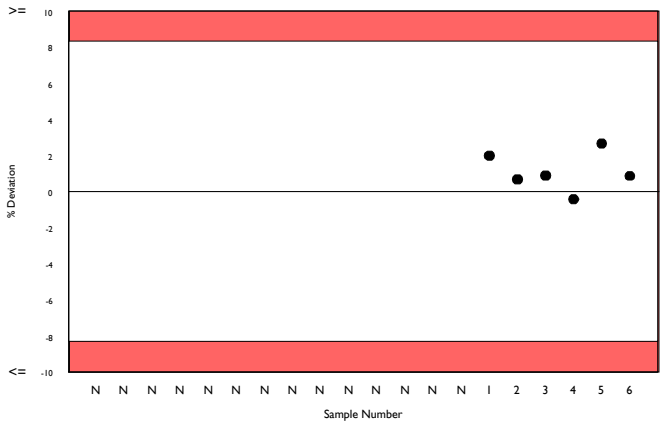


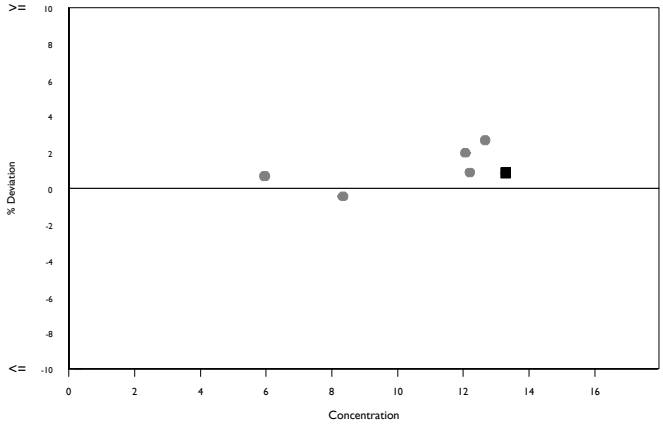
Method	N	Mean	CV%	U_m
Arsenazo	2347	13.299	3.7	0.01
Cresolphthalein complexone	1142	13.231	4.0	0.02
NM-BAPTA	928	13.516	1.9	0.01
Ortho Vitros MicroSlide Systems	218	12.936	2.5	0.03
Ion selective electrode	114	13.097	6.7	0.10
Agappe - ARSENAZO	49	12.739	6.4	0.15
Other Dry Chemistry	42	13.992	3.8	0.10
Phosphonazo	20	13.237	2.0	0.07
Methylthymol blue	13	13.148	6.5	0.30
Atomic absorption	5	13.574	2.9	0.22
Agappe - OCPC	3	11.220	13.7	1.11
Optical Emission Spectroscopy	2	12.400	2.3	0.25



TDPA = 8.3%







RIQAS

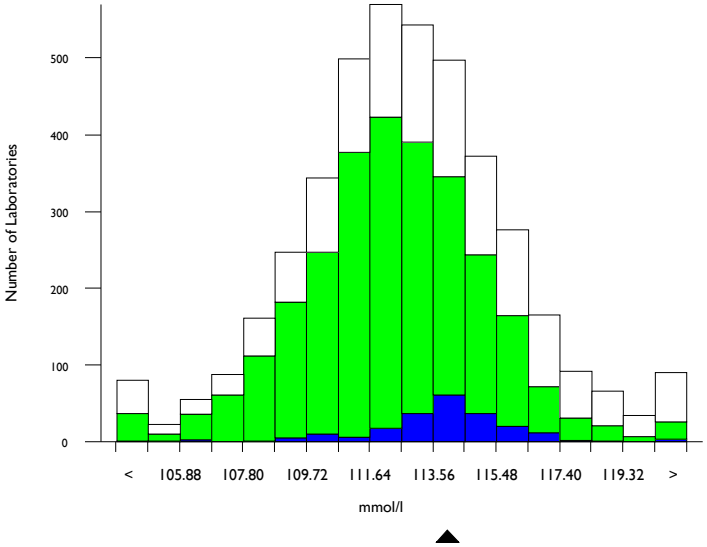
UKAS PROFICIENCY TESTING 0010

Chloride, mmol/l

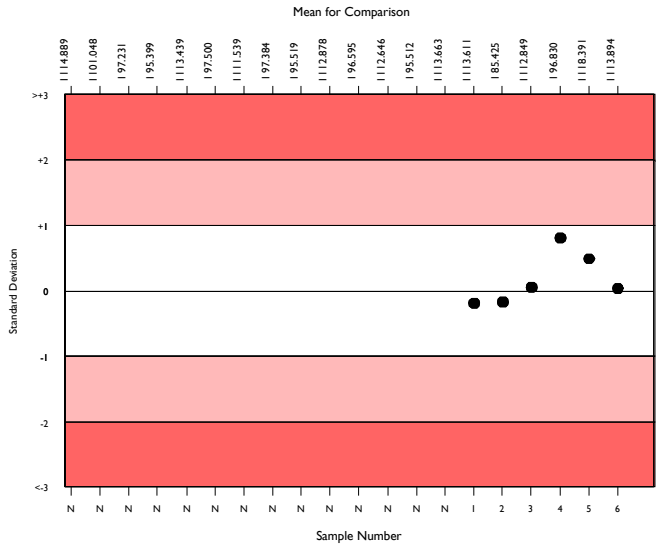
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	3883	112.603	2.3	0.05	3.15	315
ISE, indirect	2613	112.316	2.0	0.06	3.14	169
Abbott Architect c systems	205	113.894	1.5	0.15	3.19	14

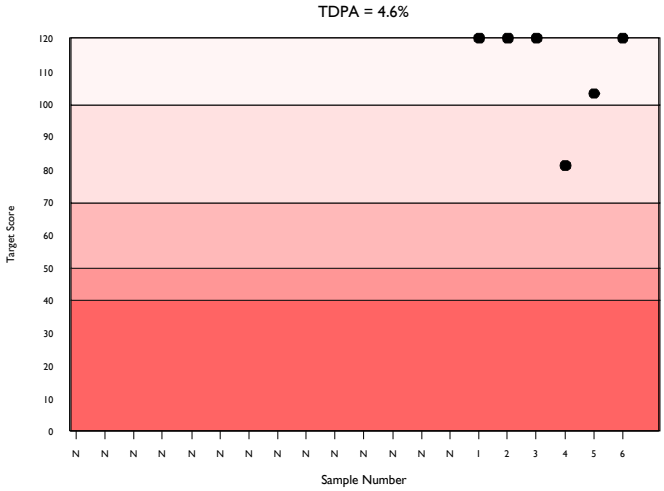
Your Result	114.000	SDI	0.03
		RMSDI	Too Few
Mean for Comparison	113.894	TS	120
		RMTS	Too Few
		%DEV	0.1
		RM%DEV	Too Few

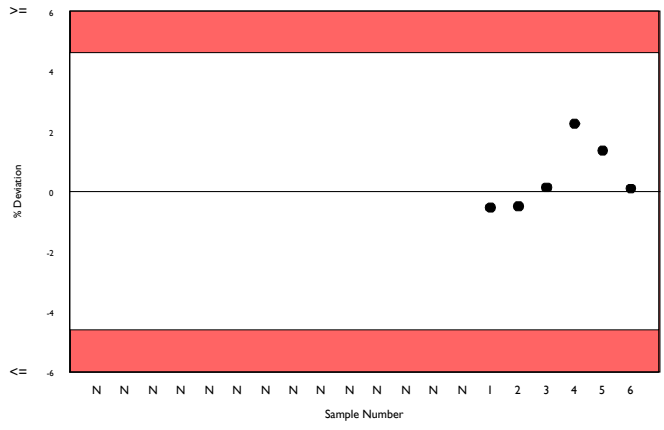
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	4.60%

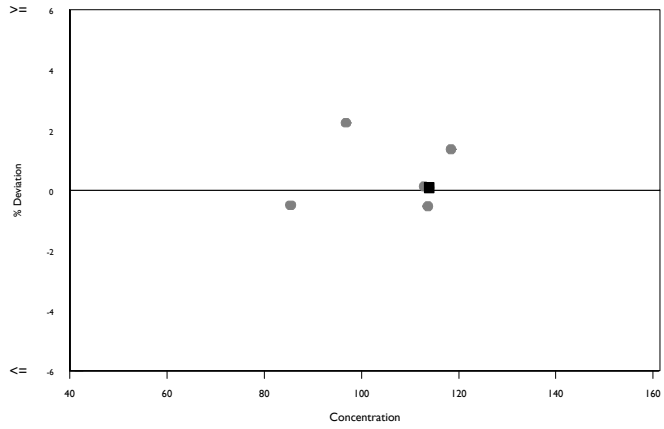


Method	N	Mean	CV%	U_m
ISE, indirect	2613	112.316	2.0	0.06
ISE, direct	977	113.380	2.8	0.13
Ortho Vitros MicroSlide Systems	145	114.462	2.0	0.24
Colorimetric	102	111.047	3.0	0.42
Other Dry Chemistry	42	112.914	2.9	0.63
Agappe - THIOCYANATE	22	115.355	1.7	0.53
Optical Fluorescence	3	123.767	7.6	6.78









RIQAS

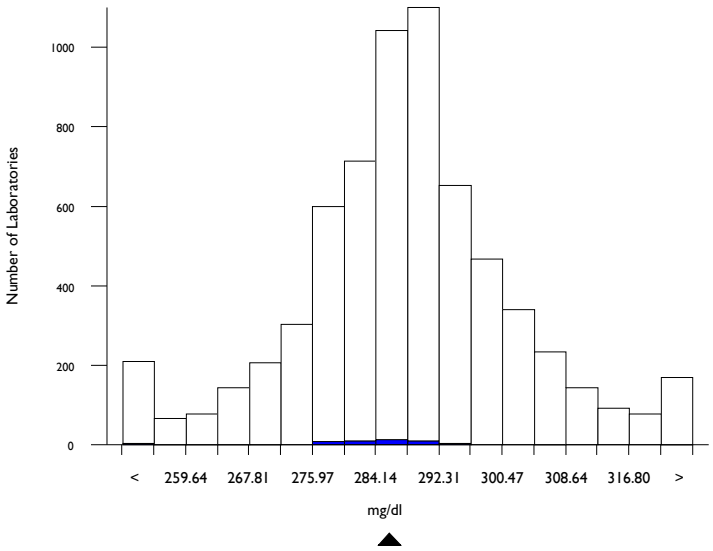
UKAS PROFICIENCY TESTING 0010

Cholesterol, mg/dl

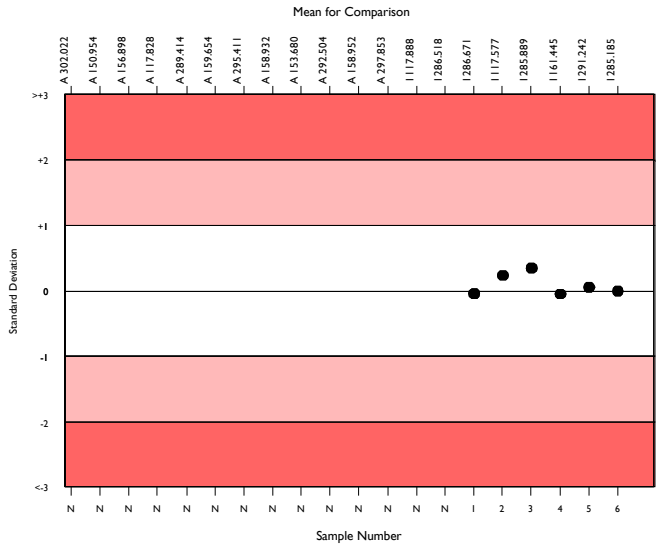
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	6104	288.228	3.8	0.17	15.07	531
Abbott Architect Cholesterol 2	48	284.827	1.9	0.98	14.89	8
Abbott Architect c systems	47	285.185	1.7	0.89	14.91	7

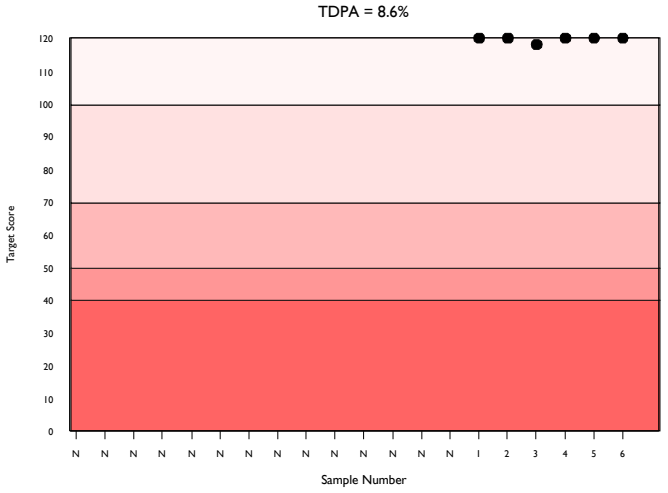
Your Result	285.000	SDI	-0.01
		RMSDI	Too Few
Mean for Comparison	285.185	TS	120
		RMTS	Too Few
		%DEV	-0.1
		RM%DEV	Too Few

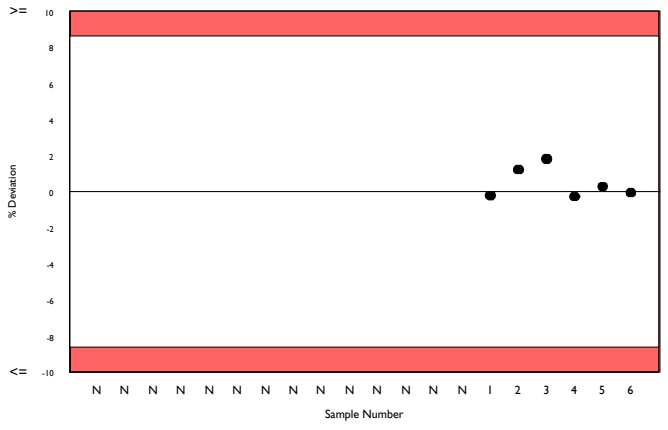
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	8.60%

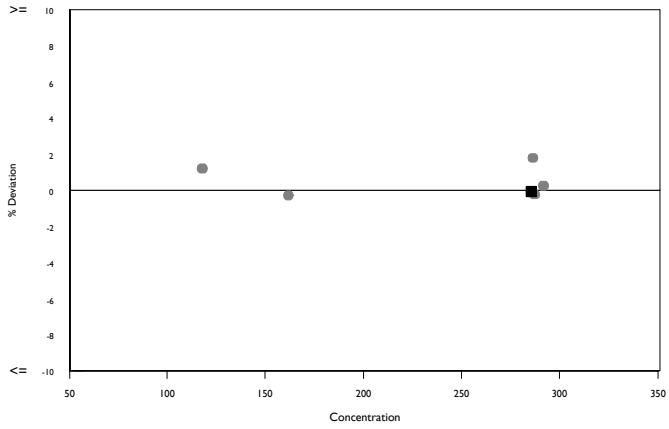


Method	N	Mean	CV%	U_m
Cholesterol Oxidase - Abell Kendall	4278	288.985	3.7	0.20
Cholesterol Oxidase - IDMS	919	291.285	3.3	0.40
Siemens Dimension	240	278.814	3.1	0.70
Ortho Vitros MicroSlide Systems	228	277.939	3.0	0.70
Cholesterol Dehydrogenase	146	290.764	4.0	1.20
Agappe - CHOD-PAP	84	281.043	4.1	1.55
Abbott Alinity Cholesterol 2	76	286.645	1.1	0.46
Other Dry Chemistry	55	272.495	6.2	2.86
Abbott Architect Cholesterol 2	48	284.827	1.9	0.98
Dimension - non Siemens reagents	3	291.795	6.6	13.85









RIQAS

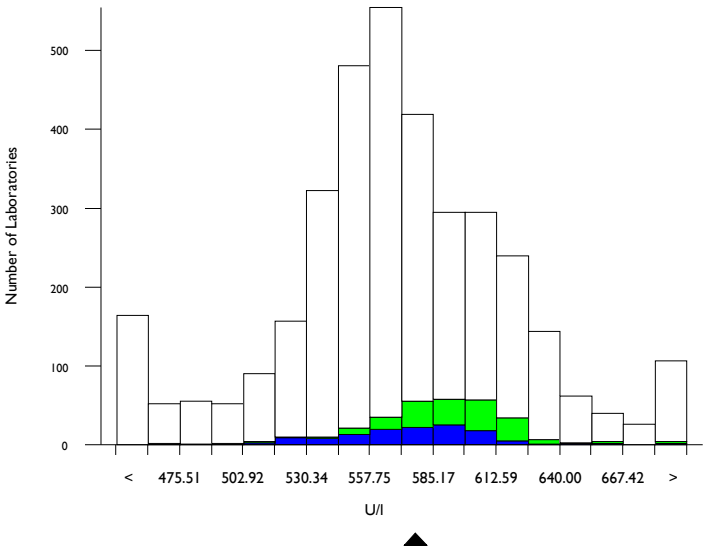
UKAS PROFICIENCY TESTING 0010

CK, Total, U/l @ 37°C

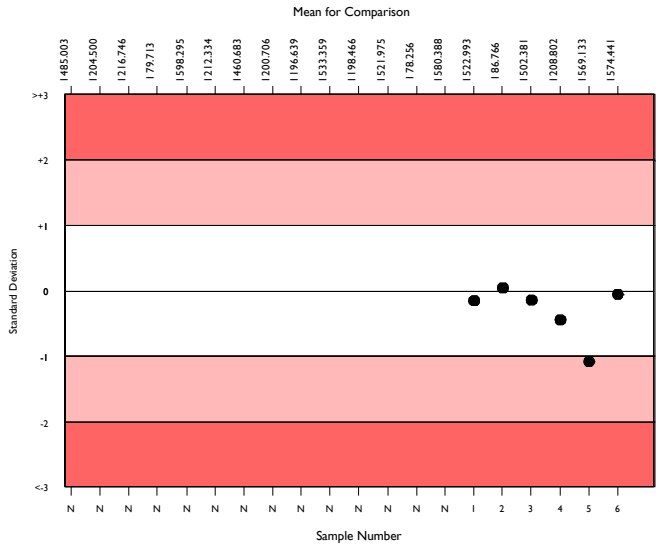
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	3200	571.467	6.4	0.81	41.69	350
Abbott CK-NAC (IFCC)	280	587.365	4.0	1.75	42.85	27
Abbott Architect c systems	123	574.441	4.6	3.00	41.91	10

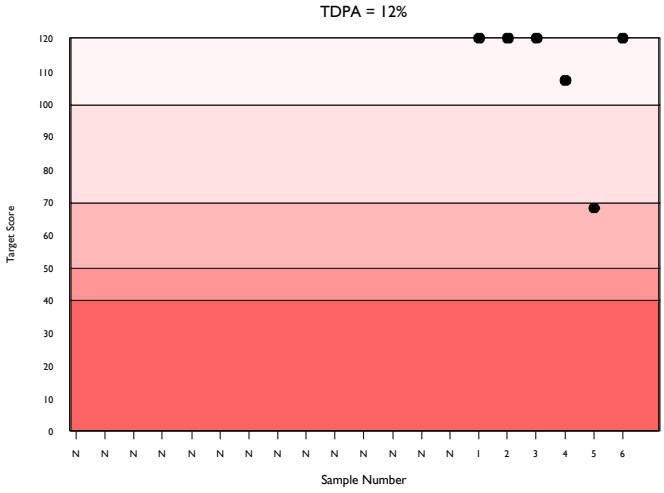
▲ Your Result	572.000	SDI	-0.06
		RMSDI	Too Few
Mean for Comparison	574.441	TS	120
		RMTS	Too Few
		%DEV	-0.4
		RM%DEV	Too Few

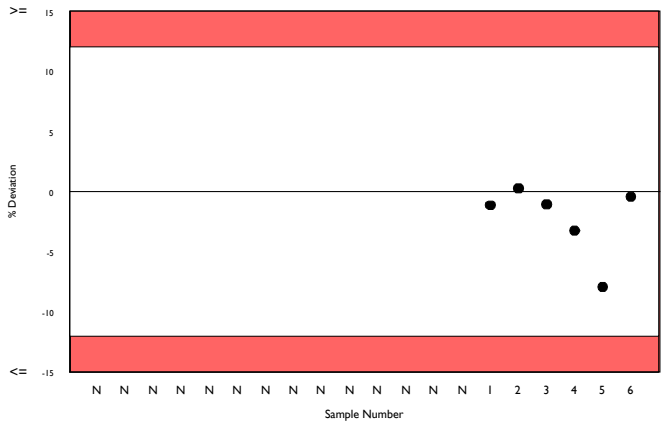
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	12.00%

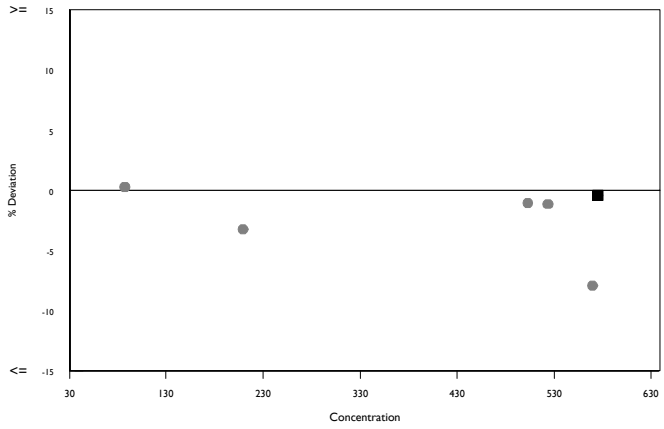


Method	N	Mean	CV%	U_m
CK-NAC (IFCC)	1850	563.851	4.9	0.81
Beckman CK-NAC (IFCC)	434	609.218	4.0	1.44
Abbott CK-NAC (IFCC)	280	587.365	4.0	1.75
CK-NAC substrate start (DGKC)	160	556.518	6.7	3.69
Ortho Vitros MicroSlide Systems	146	461.680	6.0	2.89
Creatine phosphate substrate start	103	561.139	4.5	3.14
CK-NAC serum start (DGKC)	87	560.447	6.2	4.66
Monothioglycerol	57	615.373	4.7	4.74
Agappe - IFCC/KINETIC	34	538.973	6.2	7.19
Other Dry Chemistry	28	771.214	4.4	8.03
Beckman CK-NAC (Extinction Coeff)	16	600.136	4.7	8.84
Dithioerythritol (DTE), IFCC correlated	8	546.950	2.7	6.55
Dithioerythritol (DTE)	3	585.100	11.1	47.01









RIQAS

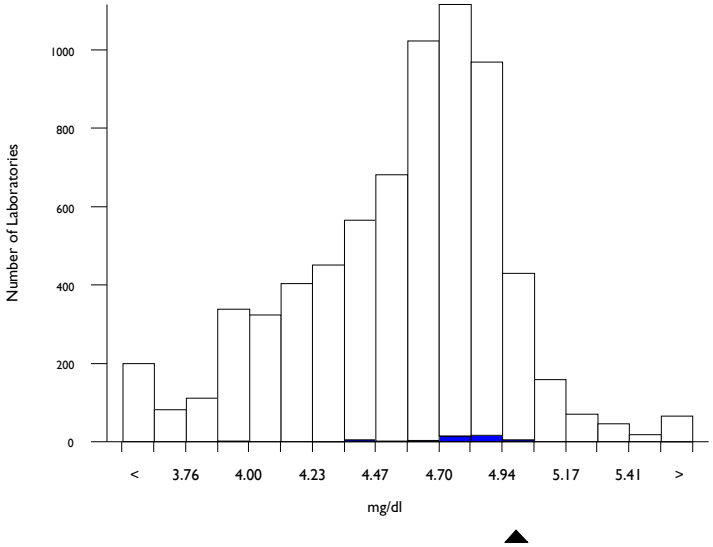
UKAS PROFICIENCY TESTING 0010

Creatinine, mg/dl

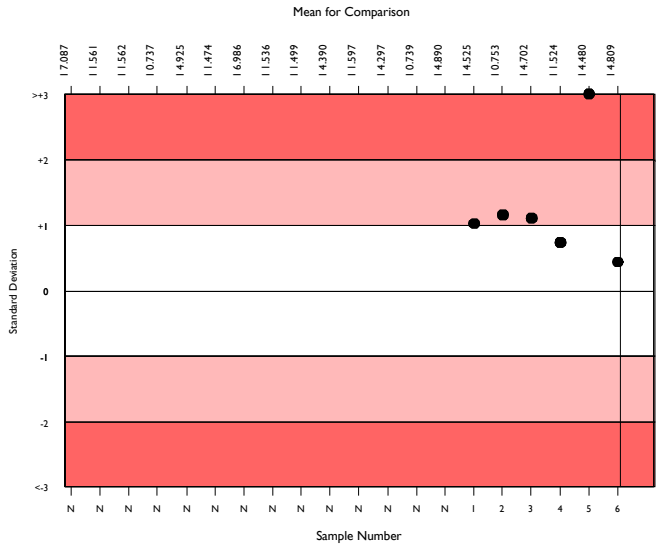
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	6588	4.589	6.8	0.00	0.35	468
Abbott Architect Creatinine 2	45	4.809	2.5	0.02	0.37	8
Abbott Architect c systems	44	4.809	2.6	0.02	0.37	8

▲ Your Result	4.970	SDI	0.44
		RMSDI	Too Few
Mean for Comparison	4.809	TS	108
		RMTS	Too Few
		%DEV	3.3
		RM%DEV	Too Few

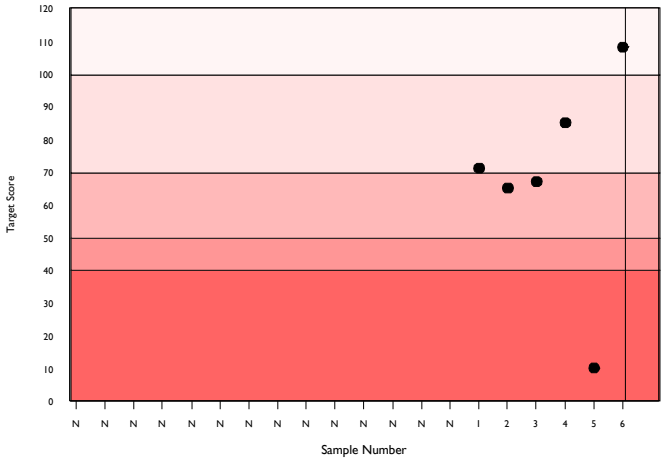
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	12.60%

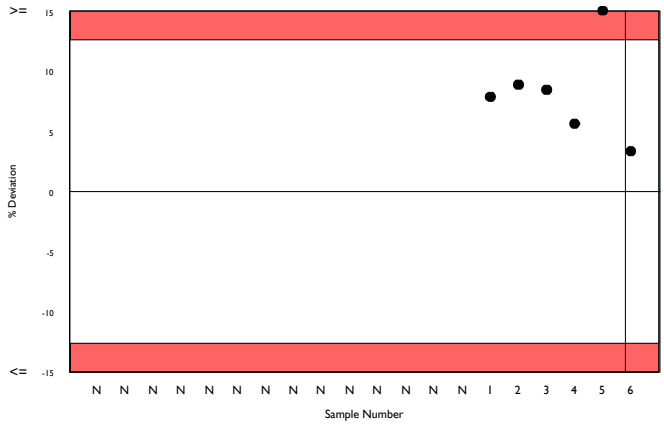


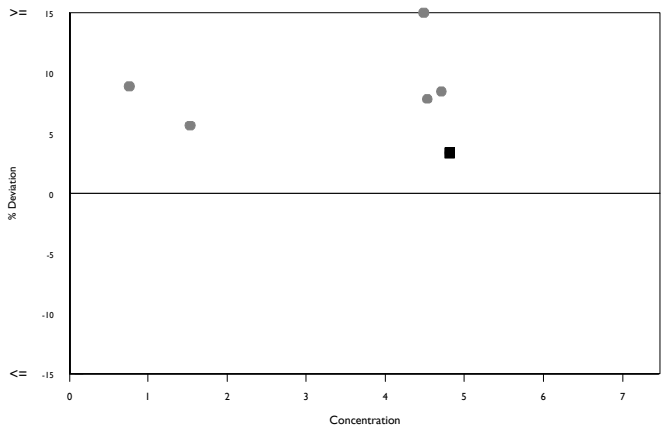
Method	N	Mean	CV%	U_m
Alkaline picrate no deproteinisation	1629	4.541	8.1	0.01
Jaffe rate blanked	1464	4.345	7.0	0.01
Jaffe rate blanked comp. (-26umol/l)	784	4.688	3.5	0.01
Jaffe rate comp. (-18umol/l)	367	4.608	4.1	0.01
Enzymatic UV method (340nm)	349	4.786	4.1	0.01
Roche Creatinine Plus	339	4.807	2.7	0.01
Other enzymatic methods	320	4.819	3.5	0.01
IDMS traceable	328	4.701	5.0	0.02
Creatinine PAP method	297	4.712	5.3	0.02
Vitros, IDMS traceable	169	4.817	3.7	0.02
Alkaline picrate with deproteinisation	129	4.503	6.9	0.03
Other Dry Chemistry	82	4.443	6.0	0.04
Agappe - JAFFE'S KINETIC	65	4.124	6.5	0.04
Abbott Architect Creatinine 2	45	4.809	2.5	0.02
Jaffe rate blanked comp. (-33umol/l)	43	4.168	8.1	0.06
Abbott Alinity Creatinine 2	34	4.823	2.3	0.02
Vitros DT60/DT60 II/DTSC II	31	4.793	3.9	0.04
Agappe - ENZYMATIC	27	4.603	9.9	0.11



TDPA = 12.6%







RIQAS

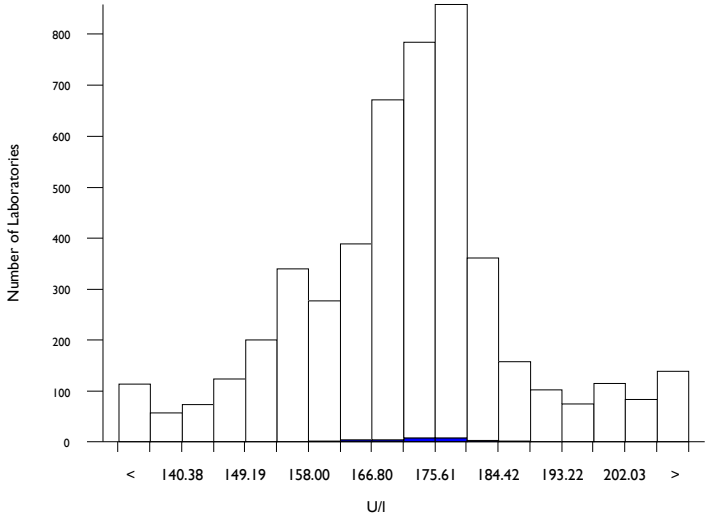
UKAS PROFICIENCY TESTING 0010

GGT, U/l @ 37°C

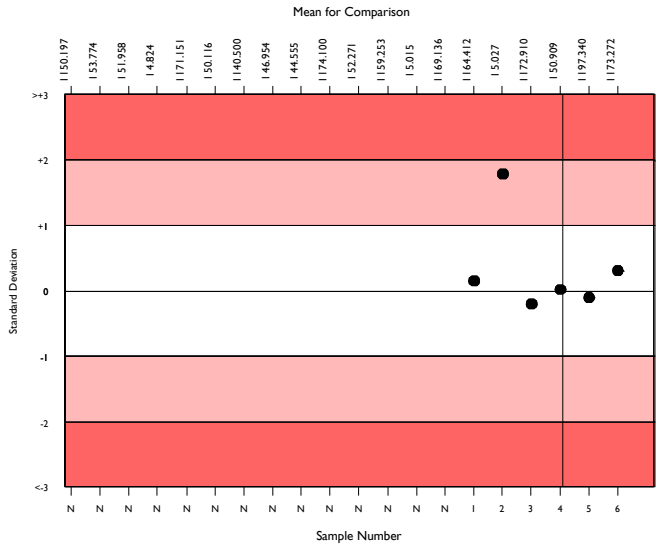
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	4496	171.212	6.9	0.22	18.63	418
Abbott Architect GGT 2	30	173.272	3.8	1.49	18.86	0
Abbott Architect c systems	30	173.272	3.8	1.49	18.86	0

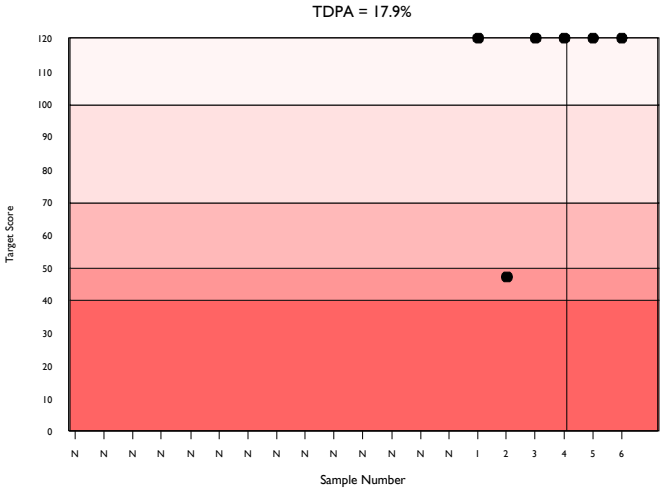
▲ Your Result	179.000	SDI	0.30
		RMSDI	Too Few
Mean for Comparison	173.272	TS	120
		RMTS	Too Few
		%DEV	3.3
		RM%DEV	Too Few

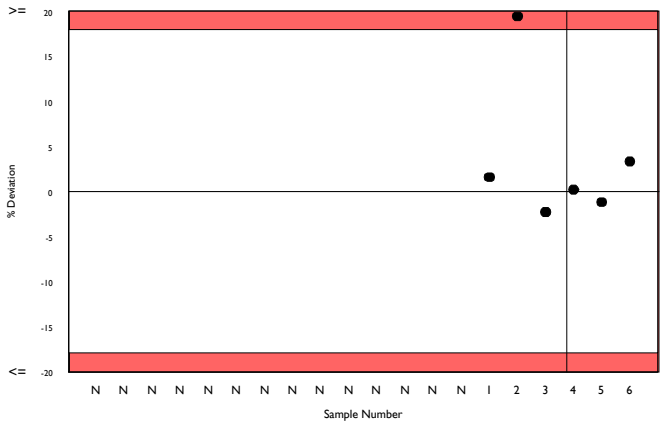
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	17.90%

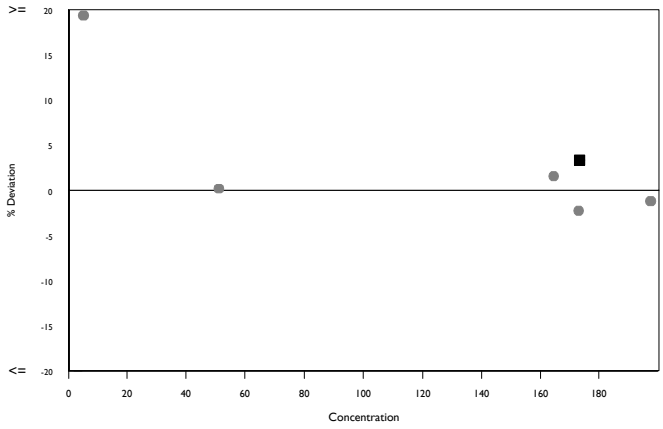


Method	N	Mean	CV%	U_m
Gamma glut'3-carb'4-nitro(IFCC)	2957	171.759	5.3	0.21
Gamma glut.-3-carb.-4-nitro.	739	164.679	7.3	0.55
Siemens Dimension	182	200.317	6.2	1.15
Ortho Vitros MicroSlide Systems	159	200.733	2.8	0.56
Abbott Alinity GGT 2	103	172.047	3.1	0.66
Gamma glutamyl-4-nitroanilide	94	166.600	9.4	2.01
DCL, gamma glut.-3-carb.-4-nitro.	84	167.940	4.7	1.07
Beckman Szasz (Extinction Coeff.)	66	171.897	5.0	1.33
Agappe - SZASZ KINETIC	58	179.390	4.4	1.30
Other Dry Chemistry	41	143.293	3.9	1.09
Abbott Architect GGT 2	30	173.272	3.8	1.49
Randox Colorimetric	6	165.733	7.4	6.22
Vitros, DT60/DT60 II/DTSC II	3	207.190	3.3	4.91









RIQAS

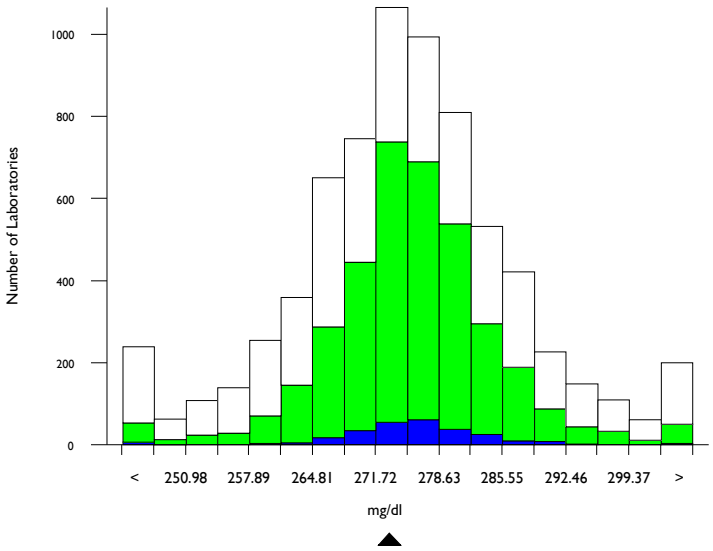
UKAS PROFICIENCY TESTING 0010

Glucose, mg/dl

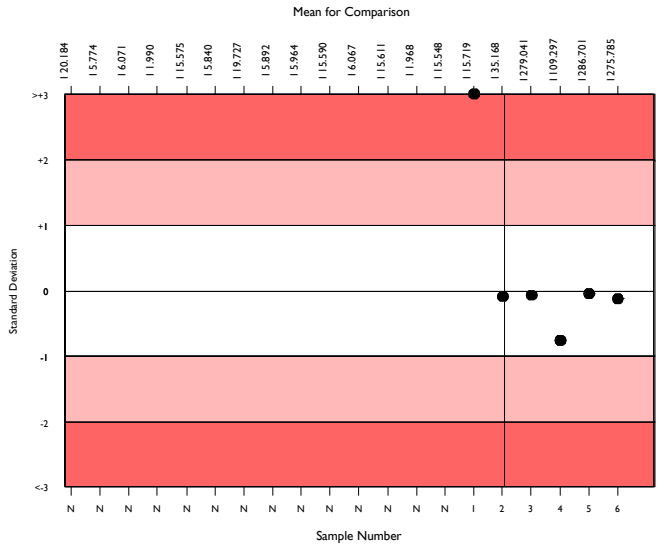
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	6520	275.181	3.3	0.14	14.22	604
Hexokinase	3439	275.782	2.3	0.14	14.25	302
Abbott Architect c systems	245	275.785	1.9	0.43	14.25	24

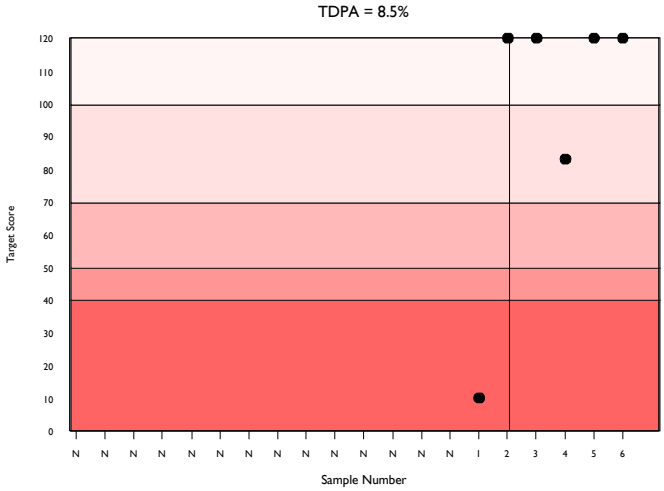
▲ Your Result	274.000	SDI	-0.13
		RMSDI	Too Few
Mean for Comparison	275.785	TS	120
		RMTS	Too Few
		%DEV	-0.6
		RM%DEV	Too Few

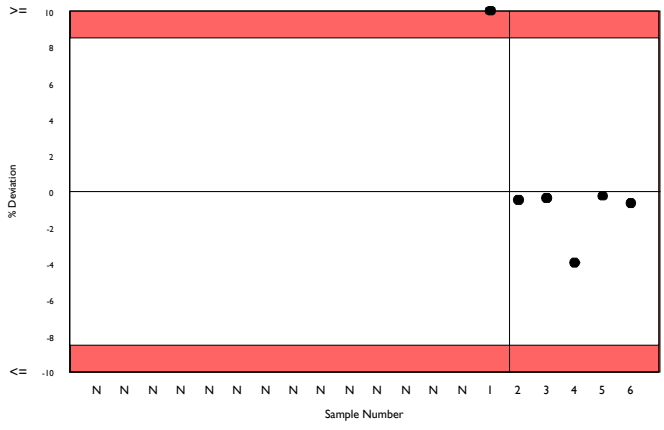
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	8.50%

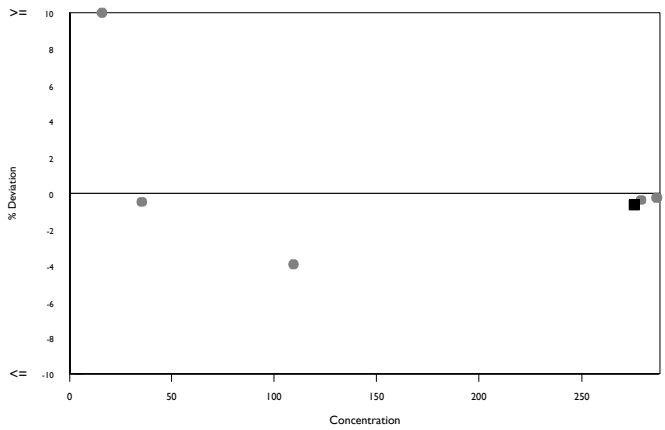


Method	N	Mean	CV%	U_m
Hexokinase	3439	275.782	2.3	0.14
Glucose oxidase	2605	275.646	4.4	0.30
Ortho Vitros MicroSlide Systems	227	261.550	2.5	0.53
Agappe - GOD-PAP	84	278.683	4.1	1.56
Glucose dehydrogenase	72	277.530	4.6	1.88
Other Dry Chemistry	47	263.691	3.0	1.42
GOD/02-Beckman method	38	277.641	3.2	1.80
Oxygen electrode	9	277.341	1.4	1.58
Pyranose Oxidase / Peroxidase	3	297.320	4.2	8.98









RIQAS

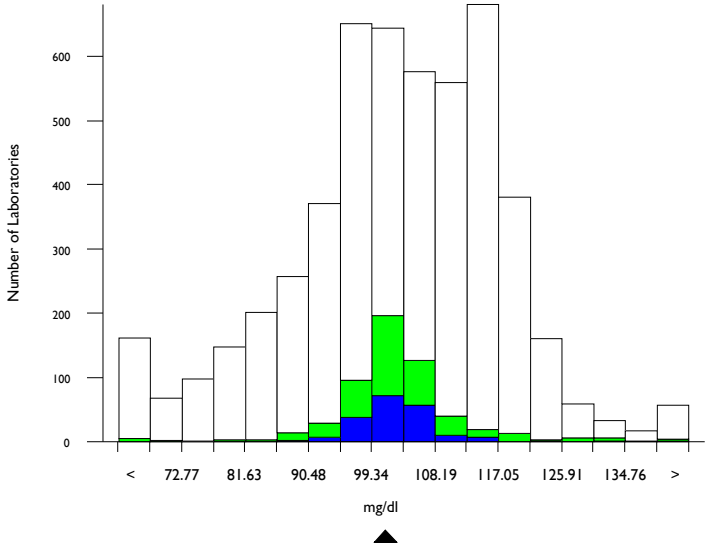
UKAS PROFICIENCY TESTING 0010

HDL-Cholesterol, mg/dl

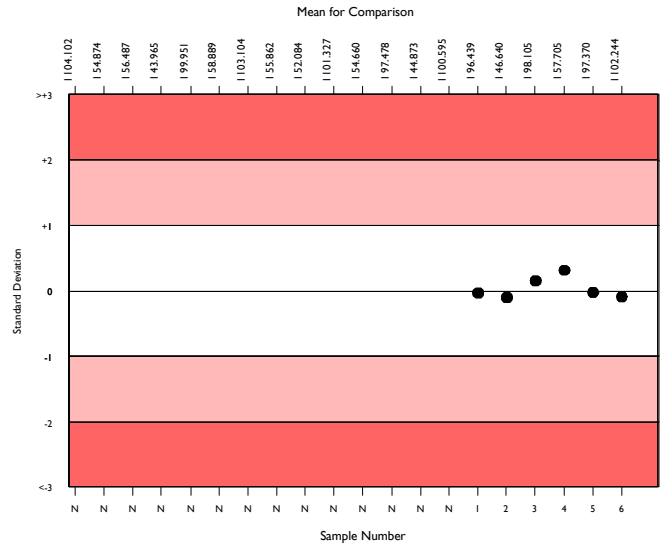
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	4758	103.772	11.4	0.21	13.31	376
HDL Ultra/Accel Selective Detergent	513	102.319	5.0	0.28	13.12	56
Abbott Architect c systems	180	102.244	3.8	0.36	13.12	16

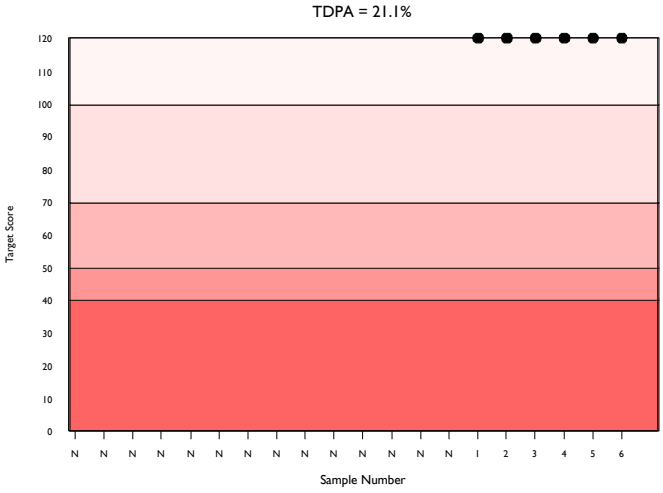
Your Result	101.000	SDI	-0.09
		RMSDI	Too Few
Mean for Comparison	102.244	TS	120
		RMTS	Too Few
		%DEV	-1.2
		RM%DEV	Too Few

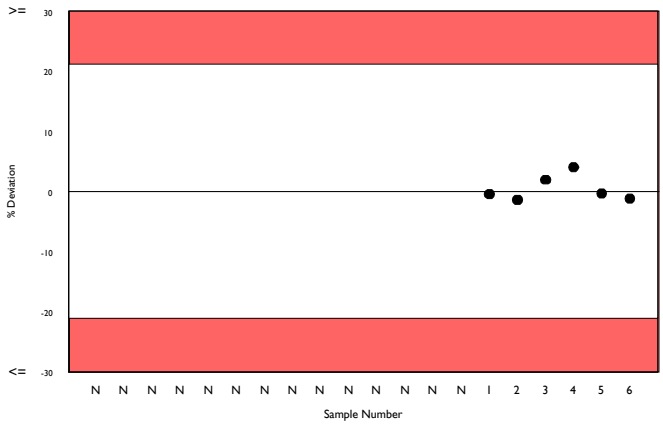
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	21.10%

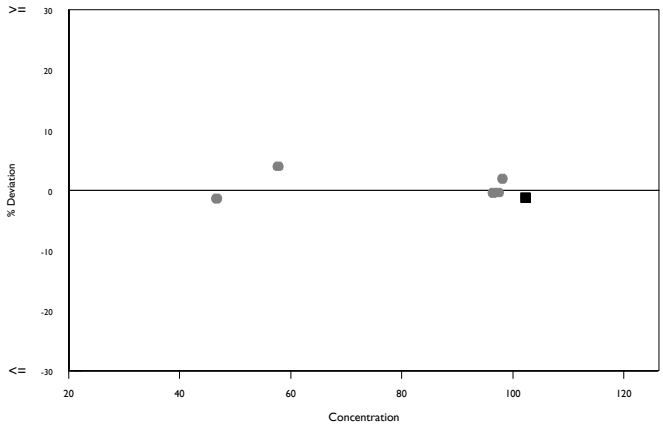


Method	N	Mean	CV%	U_m
Direct HDL, Roche 4th gen.	1294	114.553	4.4	0.17
Direct HDL, Clearance method	980	93.405	13.8	0.52
Direct HDL, Immunoseparation	761	96.978	7.7	0.34
HDL Ultra/Accel Selective Detergent	513	102.319	5.0	0.28
Direct HDL, PEGME	478	100.504	16.5	0.95
Direct HDL, PPD	358	103.439	9.3	0.63
Vitros dHDL, PTA/MgCl2 direct precip.	173	97.404	6.5	0.60
Agappe - SELECTIVE INHIBITION	68	112.289	5.5	0.94
Other Dry Chemistry	52	103.958	7.7	1.39
Vitros, Magnetic HDL	19	97.529	6.7	1.88
Vitros 5.1 FS Microtip assay	12	98.924	5.0	1.80









RIQAS

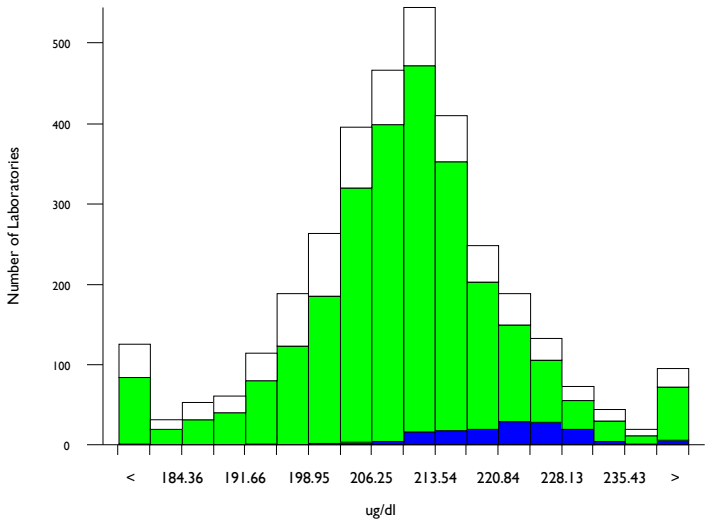
UKAS PROFICIENCY TESTING 0010

Iron, ug/dl

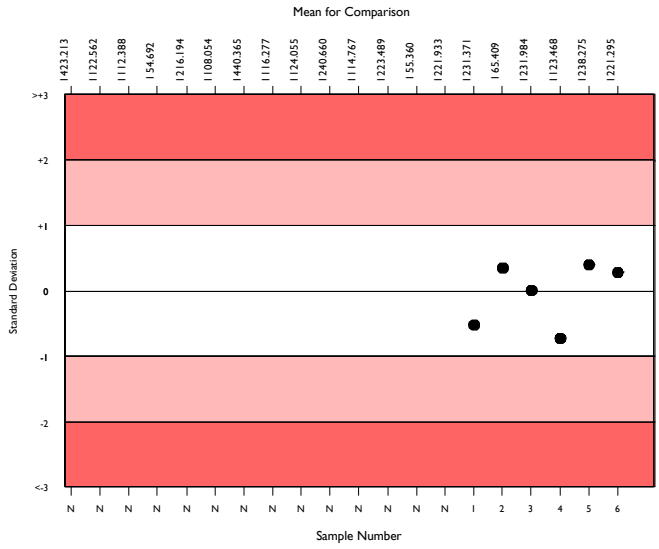
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	3175	209.901	4.6	0.22	12.76	274
Colorimetric without ppt.	2520	210.479	4.3	0.23	12.80	207
Abbott Architect c systems	141	221.295	3.1	0.72	13.45	10

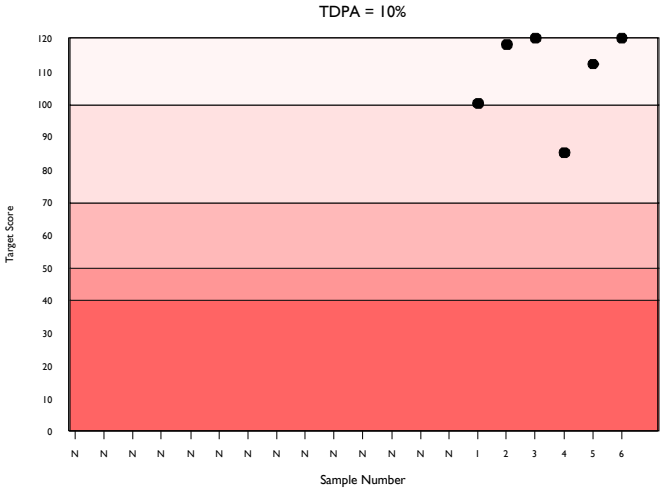
▲ Your Result	225.000	SDI	0.28
		RMSDI	Too Few
Mean for Comparison	221.295	TS	120
		RMTS	Too Few
		%DEV	1.7
		RM%DEV	Too Few

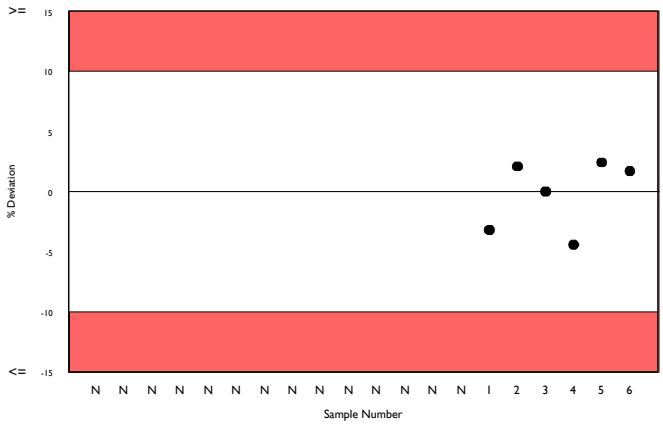
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	10.00%

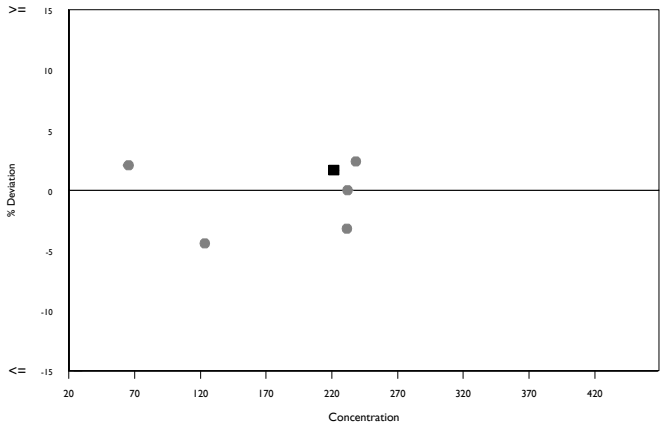


Method	N	Mean	CV%	U_m
Colorimetric without ppt.	2520	210.479	4.3	0.23
Colorimetric with ppt.	370	207.792	4.9	0.66
Ortho Vitros MicroSlide Systems	158	198.021	5.4	1.06
Abbott Alinity Iron 2	31	222.714	2.3	1.14
Other method with blank	27	209.254	3.2	1.61
Agappe - CHROMAZUROL	26	227.862	4.3	2.38
Abbott Architect Iron 2	14	222.651	3.2	2.39
Other method without blank	9	213.179	2.0	1.82
Other Dry Chemistry	10	198.484	6.1	4.76
Optical Emission Spectroscopy	9	206.724	8.0	6.88
Vitros DT60/DT60 II/DTSC II	2	236.330	16.0	33.34









RIQAS

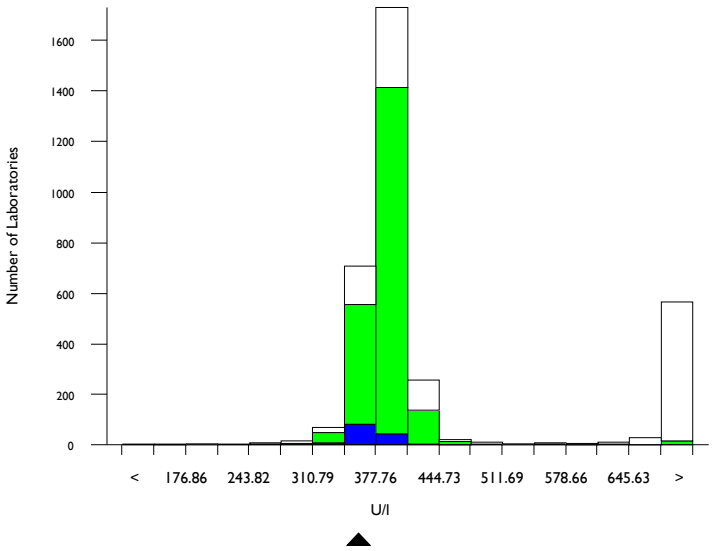
UKAS PROFICIENCY TESTING 0010

LD (LDH), U/l @ 37°C

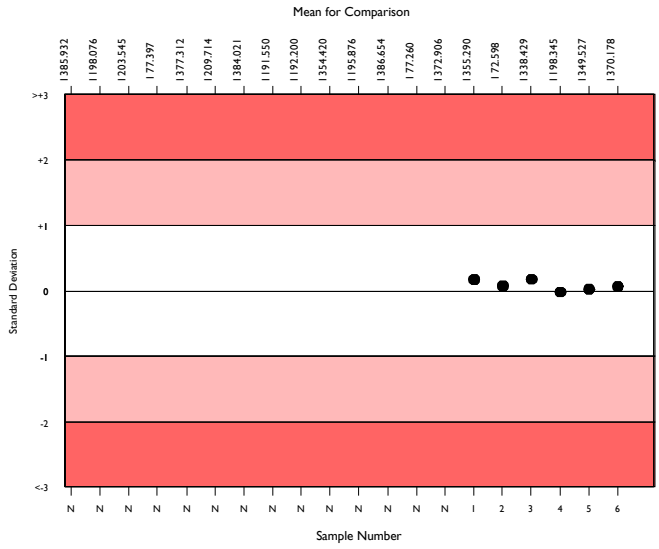
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	3066	411.247	21.7	2.02	32.00	389
L to P, IFCC	2033	386.584	3.7	0.40	30.08	178
Abbott Architect c systems	123	370.178	3.4	1.41	28.81	13

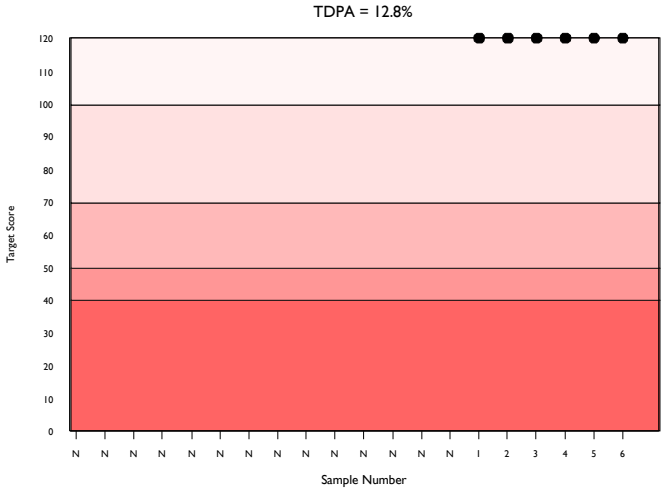
Your Result	372.000	SDI	0.06
		RMSDI	Too Few
Mean for Comparison	370.178	TS	120
		RMTS	Too Few
		%DEV	0.5
		RM%DEV	Too Few

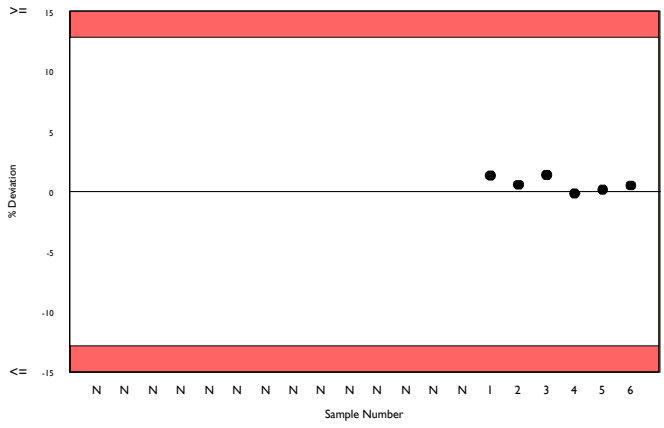
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	12.80%

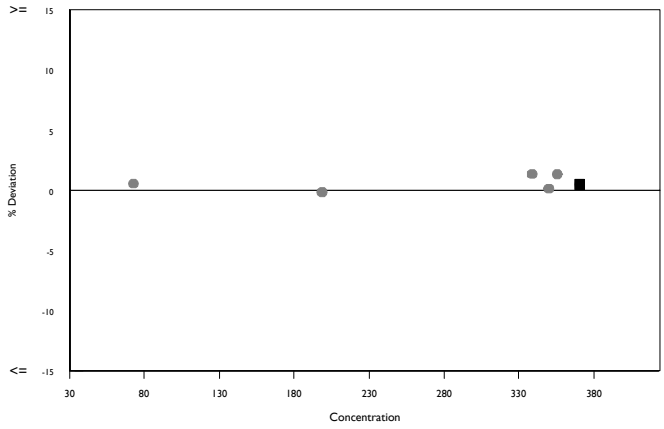


Method	N	Mean	CV%	U_m
L to P, IFCC	2033	386.584	3.7	0.40
P to L, German methods	301	753.580	7.4	4.02
Lactate to Pyruvate methods	209	383.458	6.3	2.10
Ortho Vitros IFCC Traceable	109	411.748	3.5	1.73
P to L, Scandinavian & Dutch	102	784.187	8.5	8.25
P to L, SFBC / SEQC	89	777.159	8.0	8.20
L to P Beckman (Extinction Coeff)	65	383.702	4.4	2.60
L to P Siemens/Dade, Non-IFCC	59	381.454	3.6	2.21
Ortho Vitros MicroSlide Systems	42	409.404	2.9	2.27
Agappe - SCE	38	792.999	4.1	6.64
Abbott Alinity LD 2	28	377.932	3.0	2.72
Other Dry Chemistry	29	385.134	6.1	5.42
Abbott Architect LD 2	17	378.242	6.3	7.21
Pyruvate 1.4 mM - Beckman LD-P	3	344.667	9.9	24.73









RIQAS

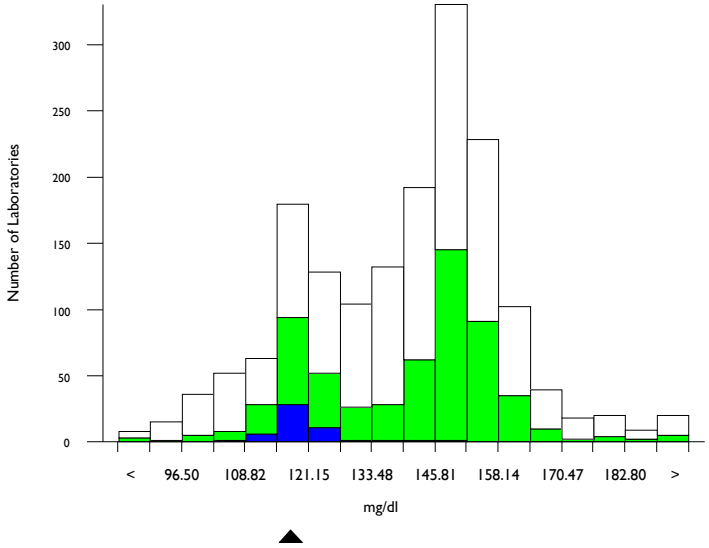
UKAS PROFICIENCY TESTING 0010

LDL-Cholesterol (Pilot), mg/dl

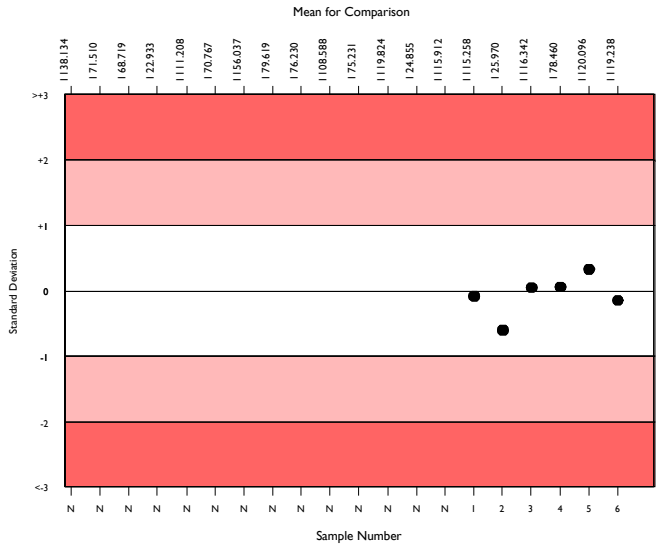
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	1576	139.652	11.8	0.52	17.49	101
Selective detergent methods	580	139.236	11.4	0.82	17.43	21
Abbott Architect c systems	44	119.238	2.8	0.64	14.93	6

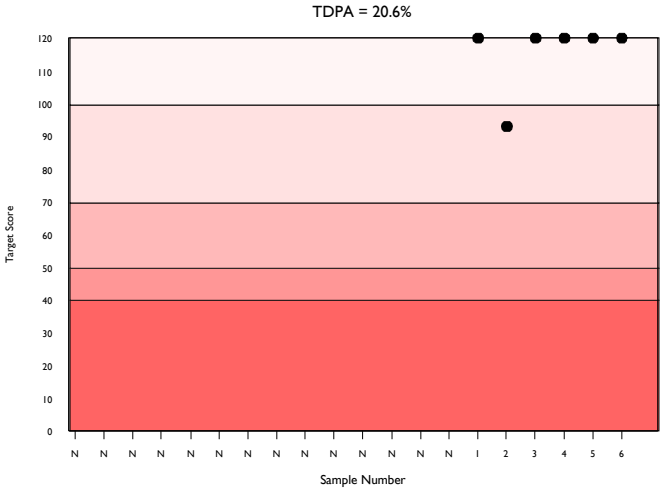
Your Result	117.000	SDI	-0.15
		RMSDI	Too Few
Mean for Comparison	119.238	TS	120
		RMTS	Too Few
		%DEV	-1.9
		RM%DEV	Too Few

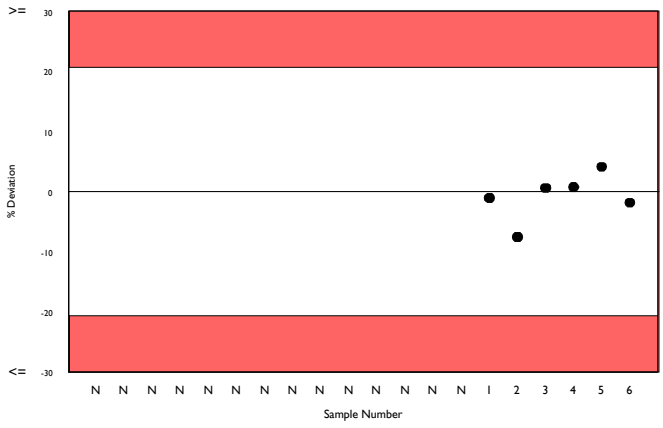
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	20.60%

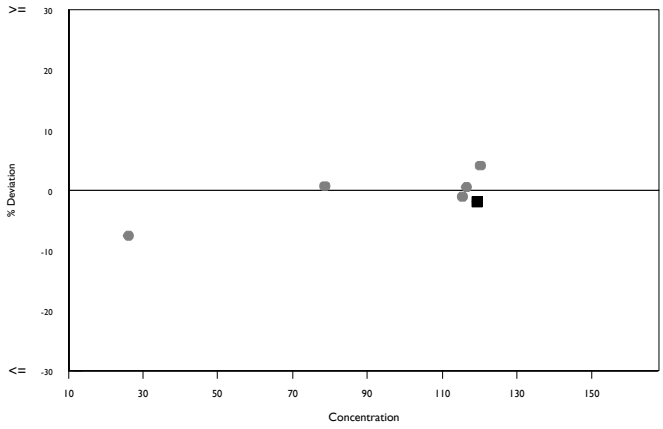


Method	N	Mean	CV%	U_m
Other direct methods	566	139.080	11.1	0.81
Selective detergent methods	580	139.236	11.4	0.82
Sel.detergent Beckman OSR6x83	161	151.273	6.1	0.91
Calculated	141	136.116	11.0	1.58
Sel.detergent Beckman OSR6x96	35	116.569	16.5	4.07
Agappe - SELECTIVE SOLUBILISATION	25	151.534	15.3	5.80
Ortho Vitros MicroSlide Systems	21	102.468	5.2	1.44
Other Precipitation methods	17	134.477	13.6	5.54
Polyvinyl Sulphate Precipitation	12	151.994	12.5	6.87
Other Dry Chemistry	9	128.780	26.7	14.30
Heparin precipitation	5	136.367	18.2	13.88
Siemens Atellica LDLC	5	125.542	14.0	9.81
Zwitterionic Detergent	3	123.205	25.1	22.34









RIQAS

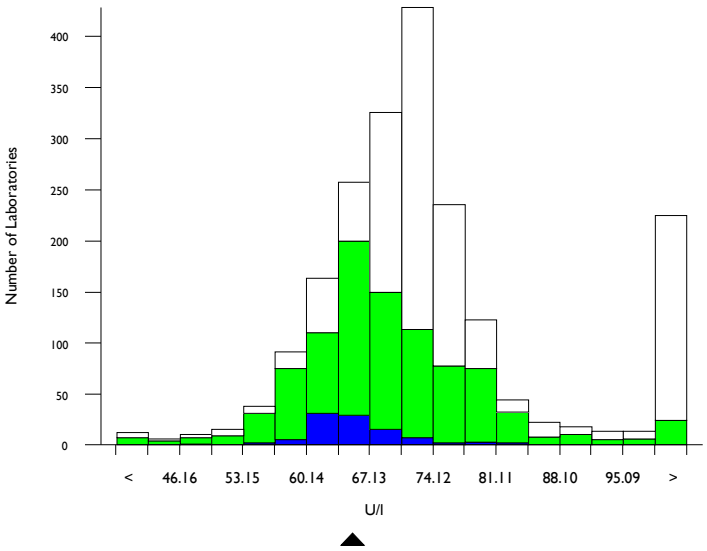
UKAS PROFICIENCY TESTING 0010

Lipase, U/l @ 37°C

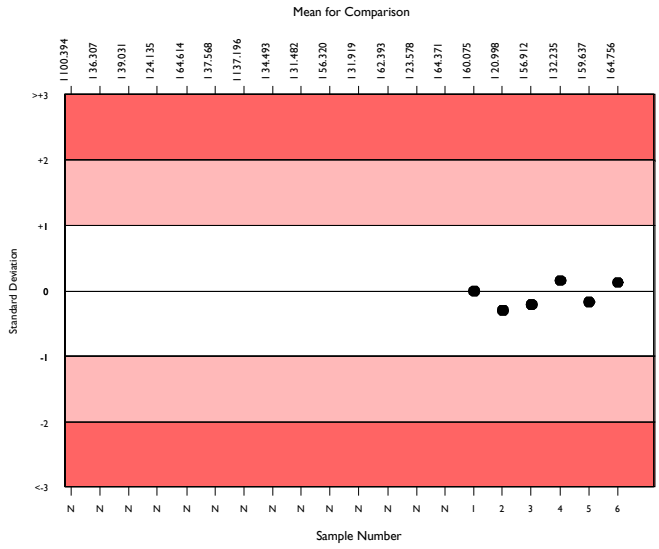
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	1836	70.629	13.2	0.27	11.04	203
Other Colorimetric	873	68.286	10.4	0.30	10.67	68
Abbott Architect c systems	86	64.756	5.2	0.45	10.12	11

▲ Your Result	66.000	SDI	0.12
		RMSDI	Too Few
Mean for Comparison	64.756	TS	120
		RMTS	Too Few
		%DEV	1.9
		RM%DEV	Too Few

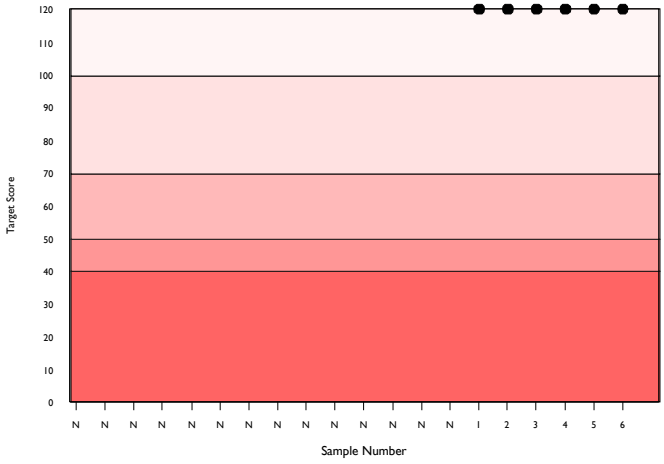
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	25.70%

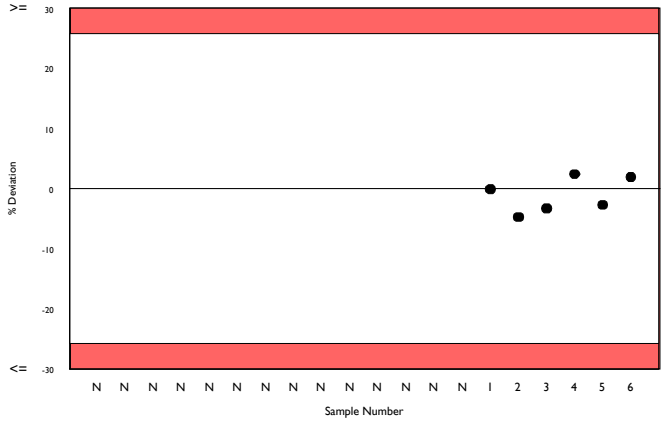


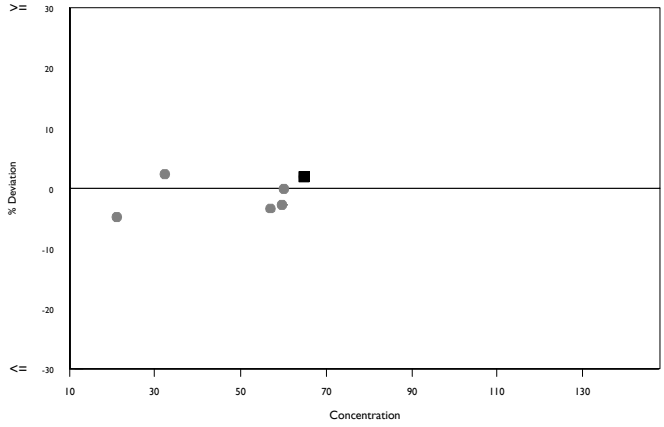
Method	N	Mean	CV%	U_m
Other Colorimetric	873	68.286	10.4	0.30
Colorimetric Roche ACN(8)731/ID 0-100	377	72.340	4.7	0.22
Colorimetric Roche ACN(8)789/ID 0-052	227	72.133	3.5	0.21
Ortho Vitros MicroSlide Systems	121	706.910	7.0	5.62
Roche Turbidimetric with colipase	55	72.323	5.2	0.64
Colorimetric Dimension (LIPL Kit)	44	252.446	11.3	5.39
Agappe - METHYL RESORUFIN	40	64.875	11.7	1.50
Colorimetric Randox	37	81.502	16.5	2.76
Colorimetric Dimension (LIP Kit)	24	72.983	4.0	0.75
Other Turbidimetric with colipase	23	67.396	7.9	1.38
Other Dry Chemistry	9	79.656	20.2	6.69
Turbidimetric without colipase	9	73.788	16.9	5.19
Randox Turbidimetric with colipase	7	79.429	28.0	10.49
Colorimetric Sigma	3	68.933	4.8	2.40



TDPA = 25.7%







RIQAS

UKAS PROFICIENCY TESTING 0010

Lithium, mmol/l

	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	238	2.035	5.8	0.01	0.14	30
Spectrophotometric	142	2.012	3.6	0.01	0.14	16
Abbott Architect c systems	9	1.970	2.8	0.02	0.14	1

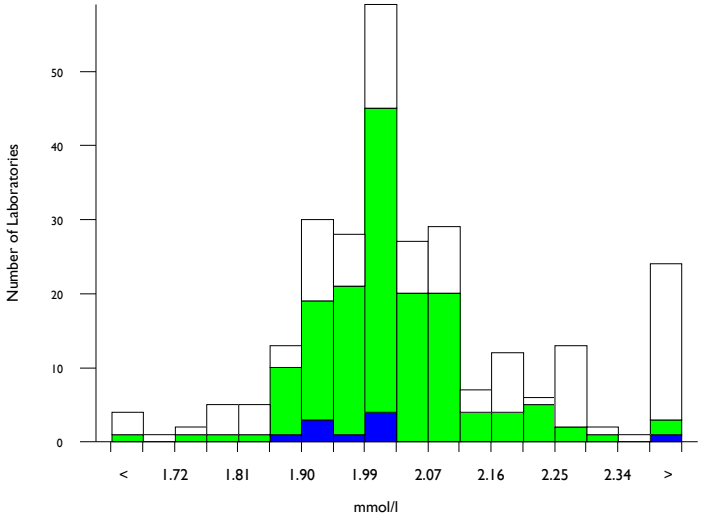
▲ Your Result	2.890	SDI	6.57
		RMSDI	Too Few
Mean for Comparison	1.970	TS	10
		RMTS	Too Few
		%DEV	46.7
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation N/A

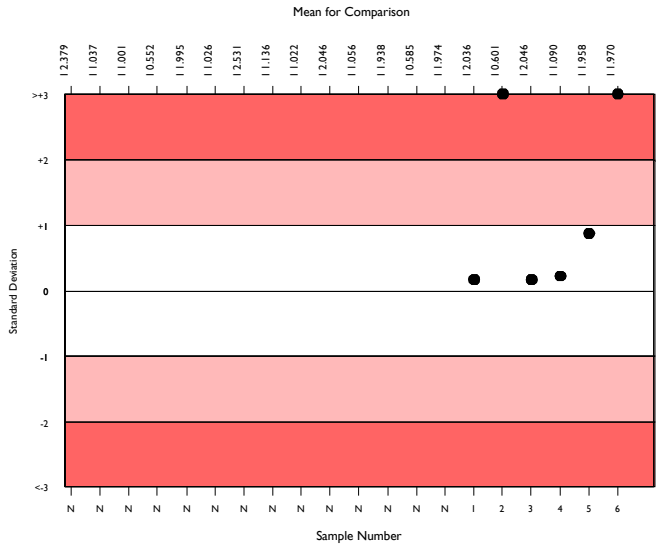
Acceptable limits of performance for RIQAS 11.70%

SDI in bottom 5% of peer group

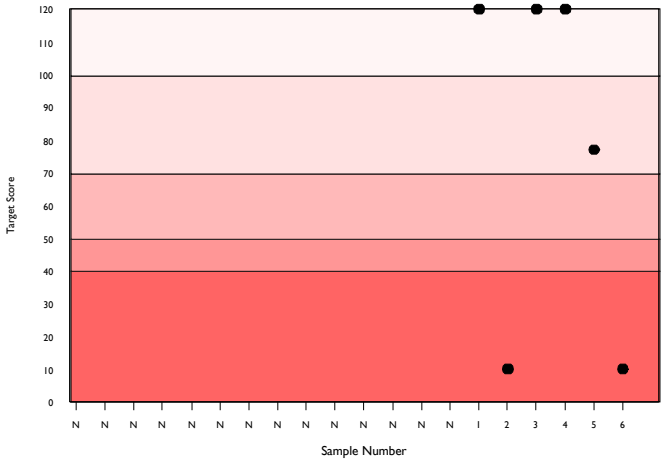
TS & %DEV outside limits

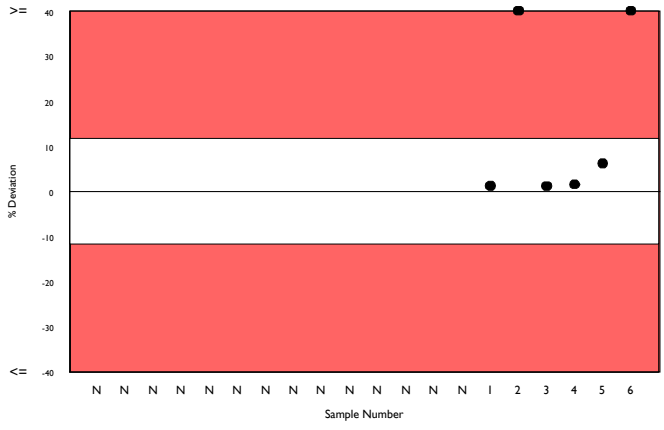


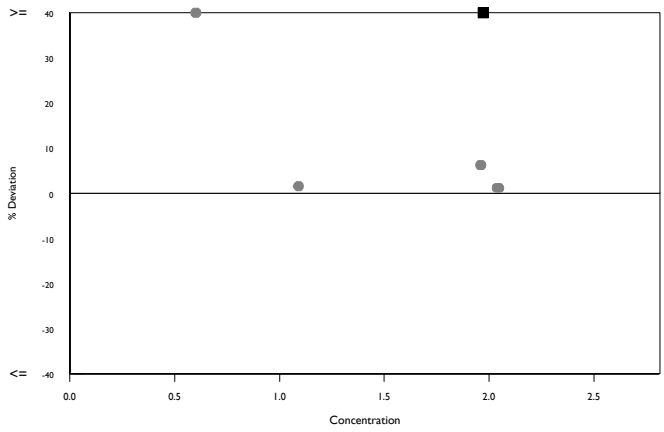
Method	N	Mean	CV%	U_m
Spectrophotometric	142	2.012	3.6	0.01
Ion selective electrode	53	2.009	5.8	0.02
Ortho Vitros MicroSlide Systems	28	2.406	5.5	0.03
Flame photometry	10	1.982	2.6	0.02
Atomic absorption	5	2.134	13.2	0.16
Other Dry Chemistry	2	2.045	1.0	0.02



TDPA = 11.7%







RIQAS

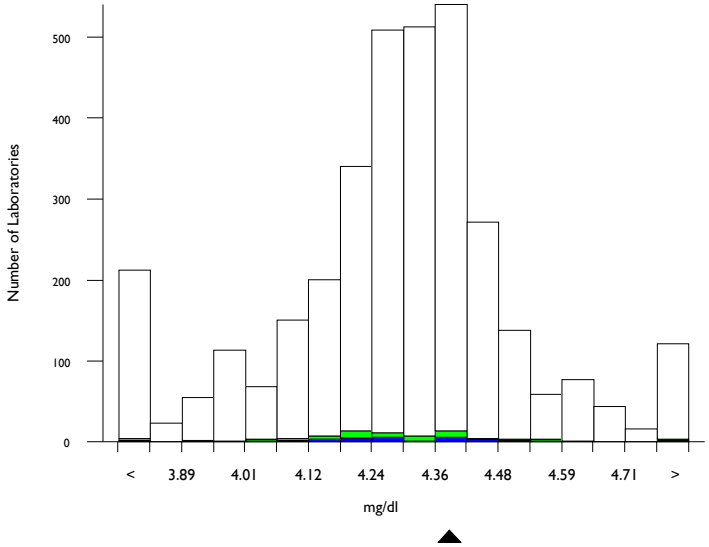
UKAS PROFICIENCY TESTING 0010

Magnesium, mg/dl

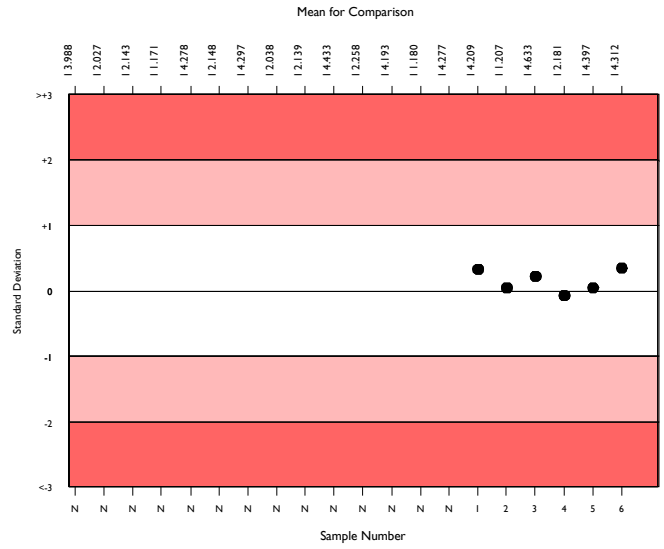
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	3095	4.305	3.6	0.00	0.29	355
Arsenazo	73	4.288	3.4	0.02	0.29	8
Abbott Architect c systems	31	4.312	3.4	0.03	0.29	5

▲ Your Result	4.410	SDI	0.34
		RMSDI	Too Few
Mean for Comparison	4.312	TS	118
		RMTS	Too Few
		%DEV	2.3
		RM%DEV	Too Few

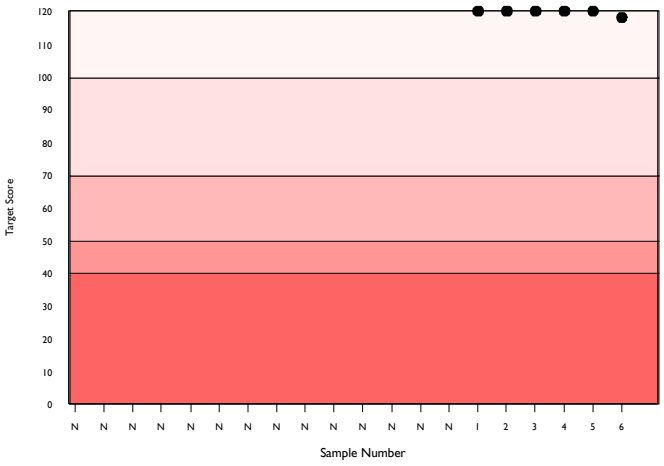
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	11.00%

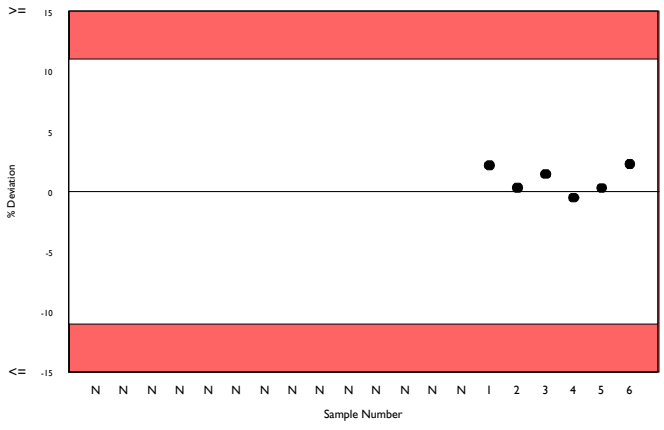


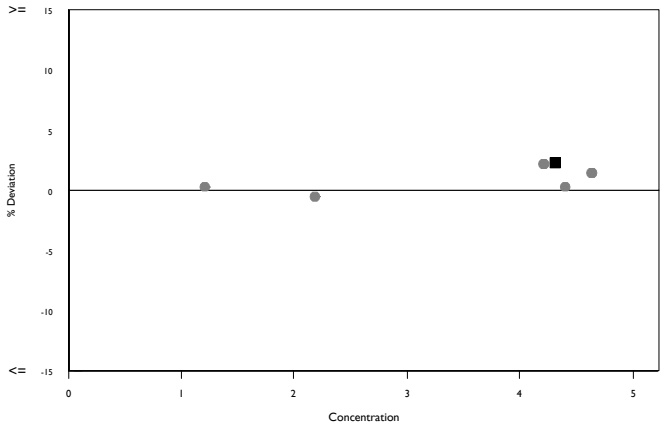
Method	N	Mean	CV%	U_m
Xylidyl Blue	1697	4.295	3.7	0.00
Enzymatic	363	4.331	2.8	0.01
Chlorphosphonazo III	295	4.310	2.6	0.01
Methylthymol blue	217	4.311	2.9	0.01
Ortho Vitros MicroSlide Systems	174	4.382	3.2	0.01
Calmagite	138	4.209	6.5	0.03
Arsenazo	73	4.288	3.4	0.02
Atomic absorption	60	4.338	1.9	0.01
Agappe - XYLIDYL BLUE	28	4.083	2.8	0.03
Other Dry Chemistry	24	4.868	4.3	0.05
Other magnesium dyes	10	4.265	2.4	0.04



TDPA = 11%







RIQAS

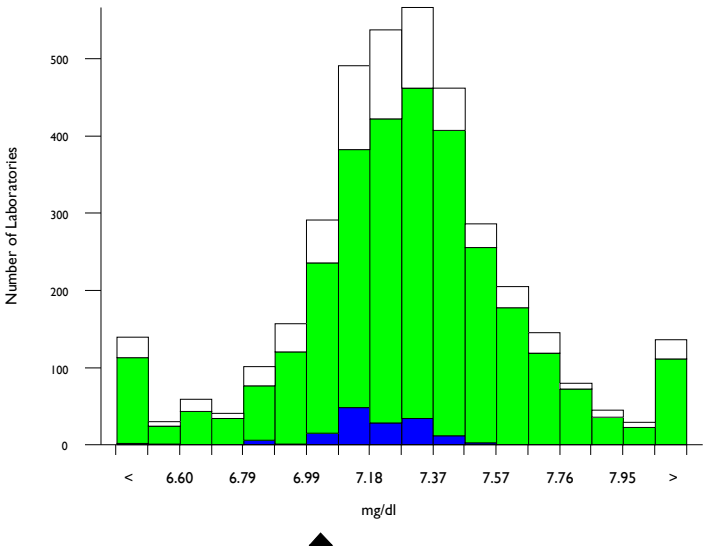
UKAS PROFICIENCY TESTING 0010

Phosphate, Inorganic, mg/dl

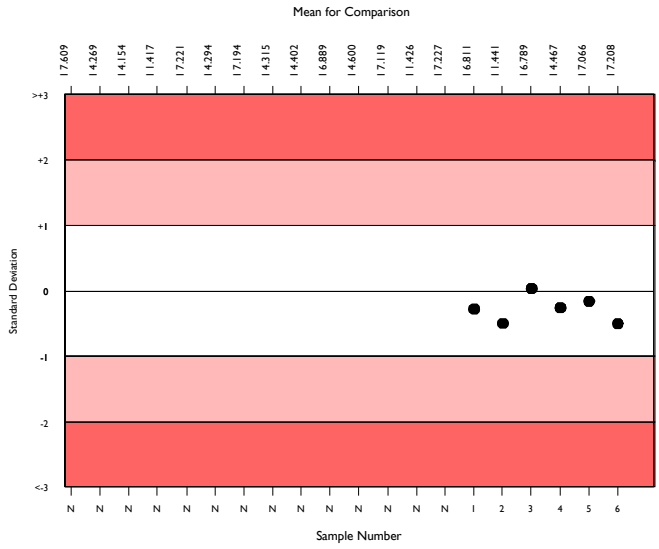
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	3487	7.283	3.5	0.01	0.42	313
Phosphomolybdate UV	2842	7.297	3.5	0.01	0.42	270
Abbott Architect c systems	137	7.208	1.6	0.01	0.41	13

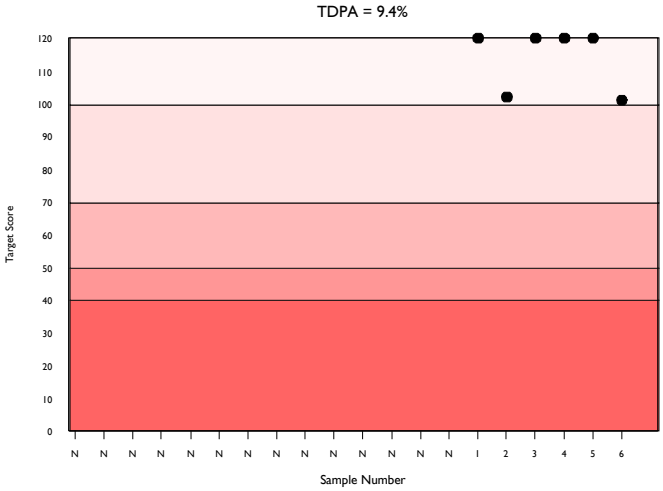
▲ Your Result	7.000	SDI	-0.51
		RMSDI	Too Few
Mean for Comparison	7.208	TS	101
		RMTS	Too Few
		%DEV	-2.9
		RM%DEV	Too Few

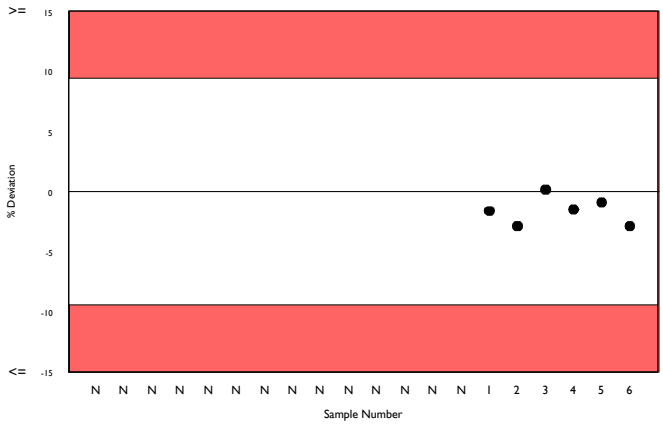
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	9.40%

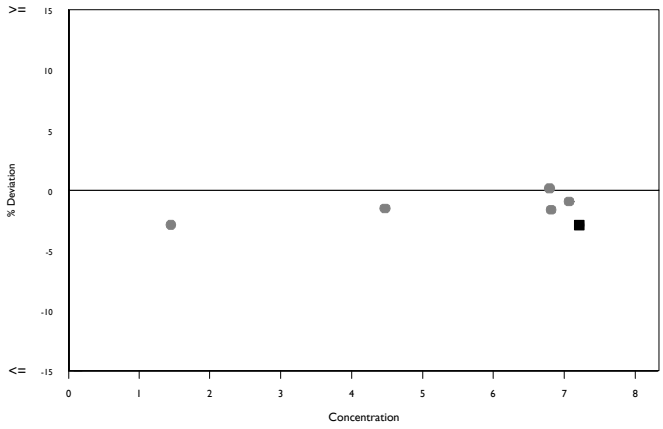


Method	N	Mean	CV%	U_m
Phosphomolybdate UV	2842	7.297	3.5	0.01
Phosphomolybdate enzymatic	305	7.246	2.9	0.01
Ortho Vitros MicroSlide Systems	188	7.194	3.1	0.02
Beckman PHOSm kit (365nm)	51	7.287	3.6	0.05
Agappe - PHOSPOHMOLYBDATE	41	7.159	4.4	0.06
Other Dry Chemistry	20	7.645	5.9	0.13
Other methods, no protein ppt	7	7.396	7.3	0.25
Other methods, with protein ppt	5	7.318	2.8	0.12









RIQAS

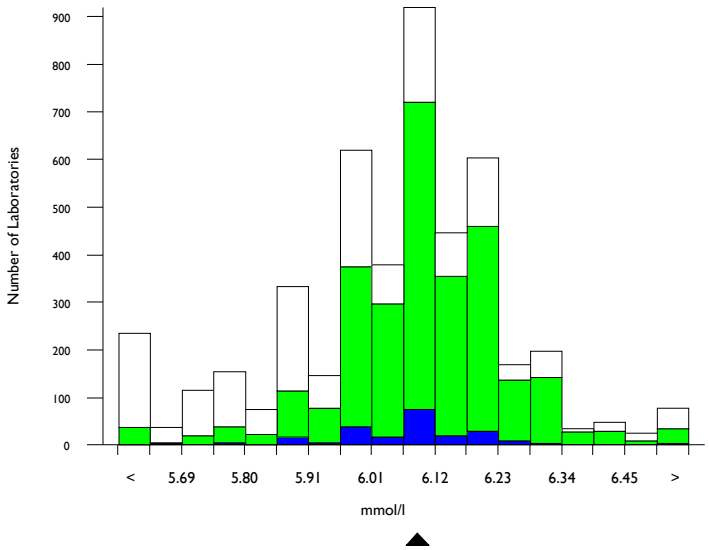
UKAS PROFICIENCY TESTING 0010

Potassium, mmol/l

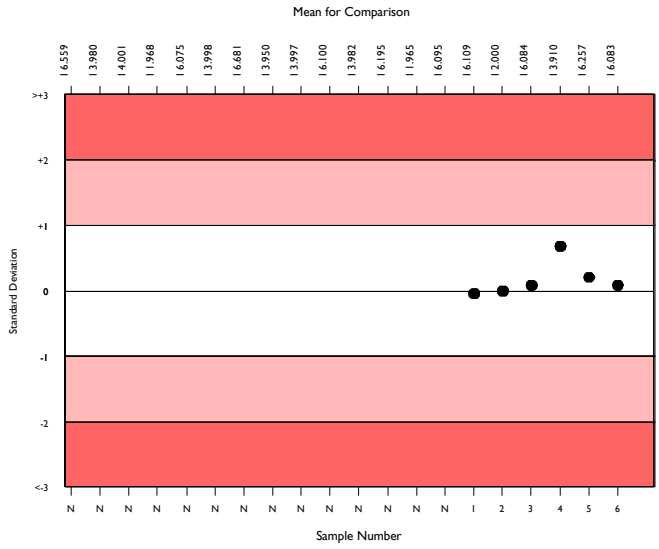
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	4228	6.072	2.4	0.00	0.21	378
ISE method - indirect	2668	6.112	1.6	0.00	0.21	220
Abbott Architect c systems	203	6.083	1.5	0.01	0.21	16

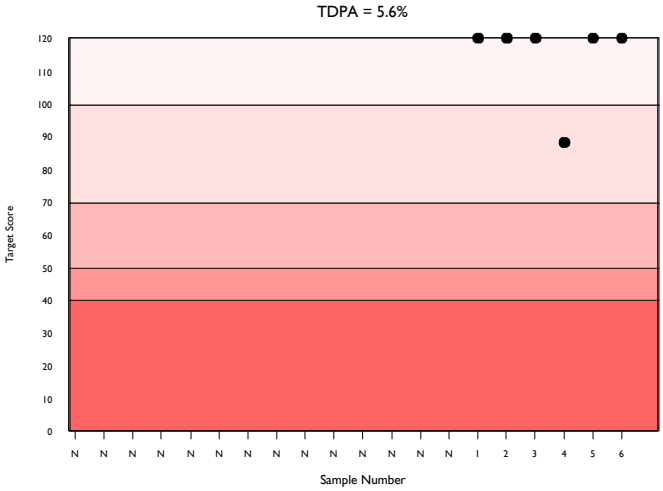
Your Result	6.100	SDI	0.08
		RMSDI	Too Few
Mean for Comparison	6.083	TS	120
		RMTS	Too Few
		%DEV	0.3
		RM%DEV	Too Few

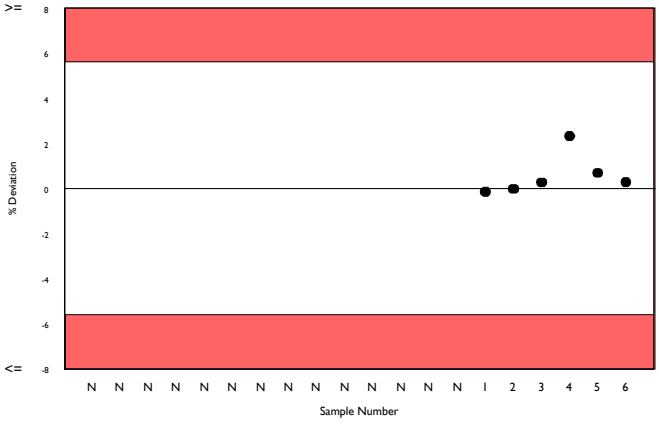
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	5.60%

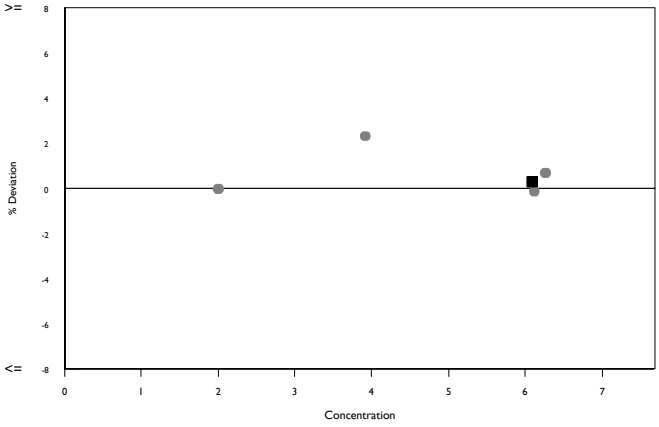


Method	N	Mean	CV%	U_m
ISE method - indirect	2668	6.112	1.6	0.00
ISE method - direct	1248	5.975	3.3	0.01
Ortho Vitros MicroSlide Systems	181	6.000	2.3	0.01
Colorimetric	50	5.604	4.7	0.05
Other Dry Chemistry	45	6.047	2.1	0.02
Agappe - ISE DIRECT	22	6.364	25.9	0.44
Flame photometry	12	5.847	3.4	0.07
Enzymatic	11	6.095	5.7	0.13
Turbidimetric	8	5.658	8.4	0.21
Optical Fluorescence	4	6.208	4.8	0.19
Vitros, DT60/DT60 II/DTE II	3	6.033	1.0	0.04









RIQAS

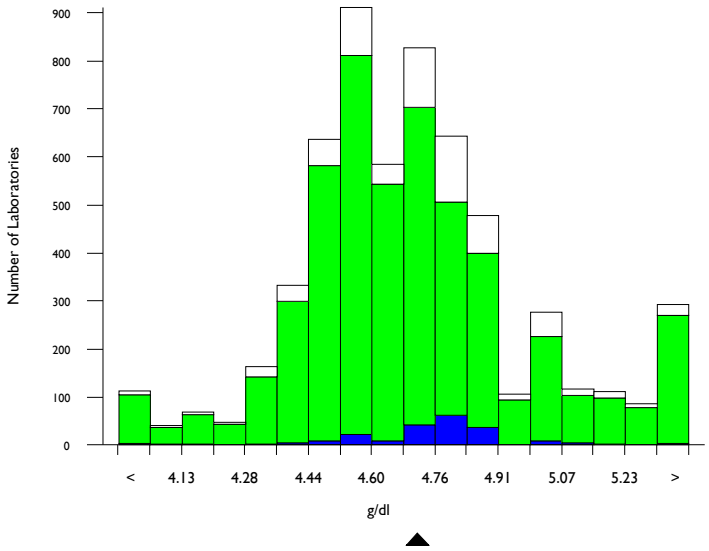
UKAS PROFICIENCY TESTING 0010

Protein, Total, g/dl

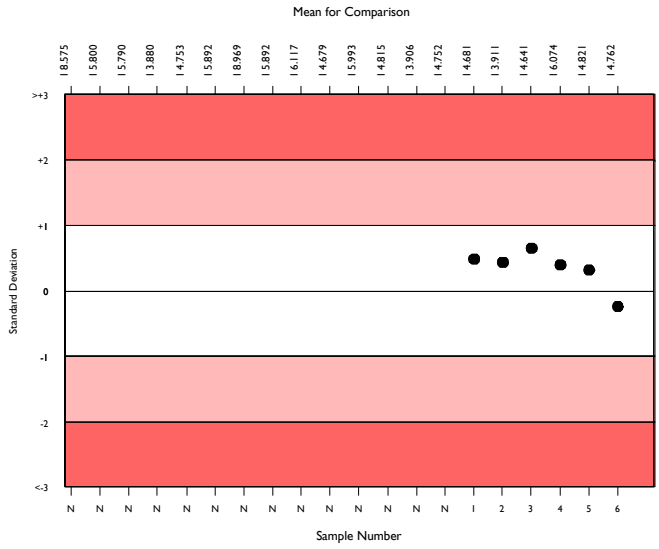
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	5321	4.682	4.5	0.00	0.25	507
Biuret reaction, end point	4641	4.676	4.5	0.00	0.25	453
Abbott Architect c systems	186	4.762	2.5	0.01	0.25	19

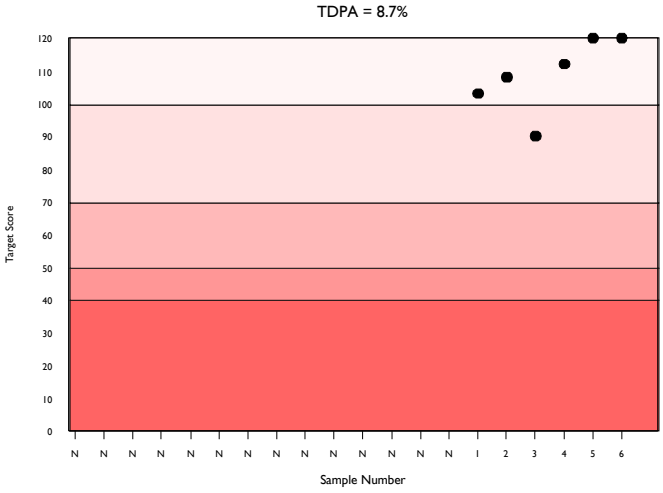
▲ Your Result	4.700	SDI	-0.25
		RMSDI	Too Few
Mean for Comparison	4.762	TS	120
		RMTS	Too Few
		%DEV	-1.3
		RM%DEV	Too Few

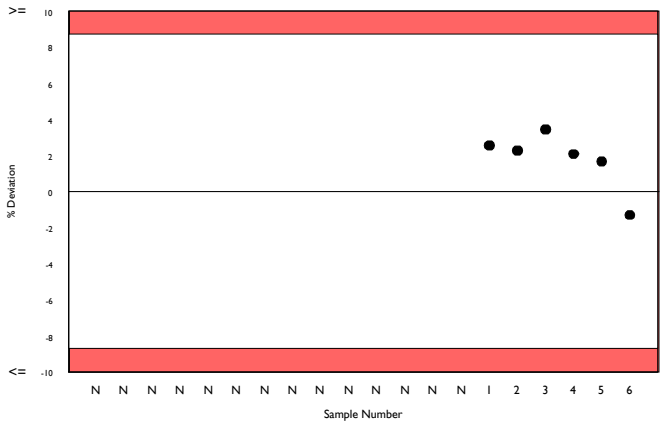
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	8.70%

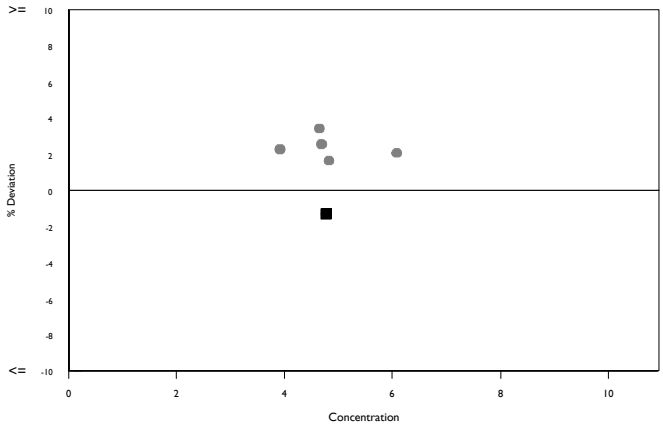


Method	N	Mean	CV%	U_m
Biuret reaction, end point	4641	4.676	4.5	0.00
Ortho Vitros MicroSlide Systems	202	4.794	3.0	0.01
Biuret reaction, kinetic	166	4.588	3.7	0.02
Abbott Alinity Total Protein 2	77	4.769	1.4	0.01
Agappe - BIURET	69	4.842	4.9	0.04
Biuret reaction, CX4/5/7	45	4.555	2.5	0.02
Other Dry Chemistry	50	4.752	3.4	0.03
Abbott Architect total Protein 2	37	4.801	1.4	0.01
Refractometry	3	4.627	3.5	0.12









RIQAS

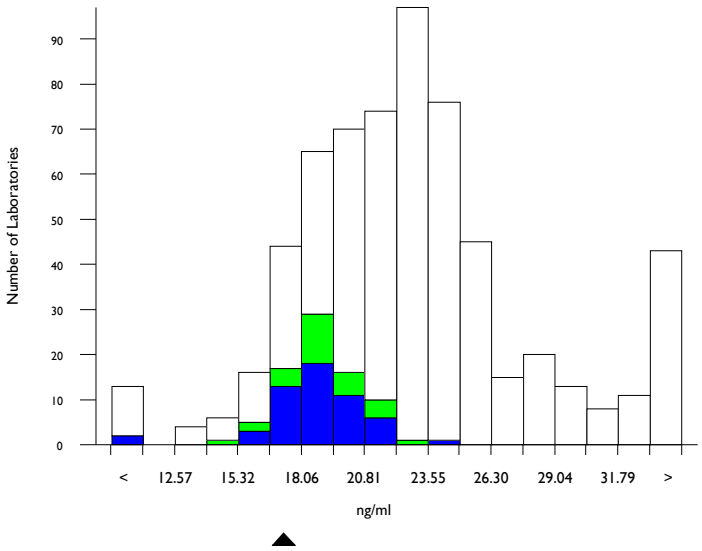
UKAS PROFICIENCY TESTING 0010

PSA, Total, ng/ml

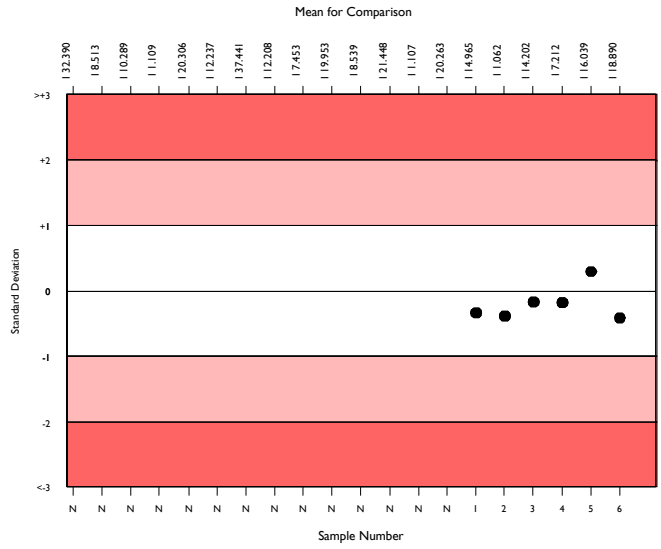
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	561	22.183	16.5	0.19	3.34	60
Abbott Architect/ Alinity	76	18.926	7.5	0.20	2.85	6
Abbott Architect i Systems	50	18.890	7.6	0.25	2.85	4

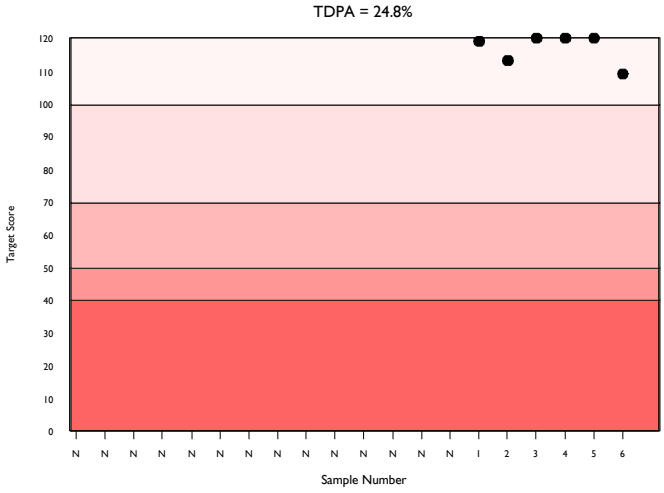
▲ Your Result	17.700	SDI	-0.42
		RMSDI	Too Few
Mean for Comparison	18.890	TS	109
		RMTS	Too Few
		%DEV	-6.3
		RM%DEV	Too Few

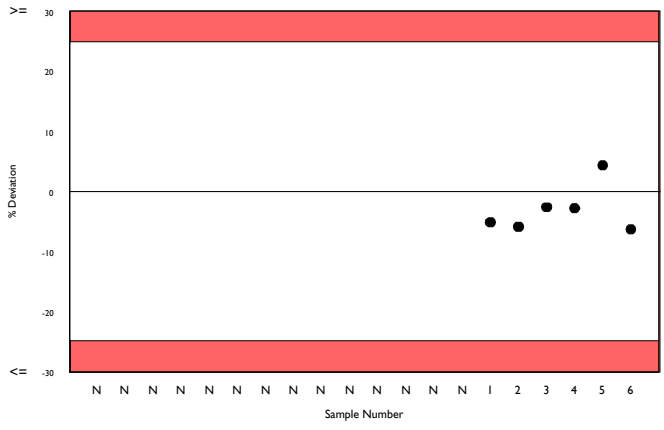
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	24.80%

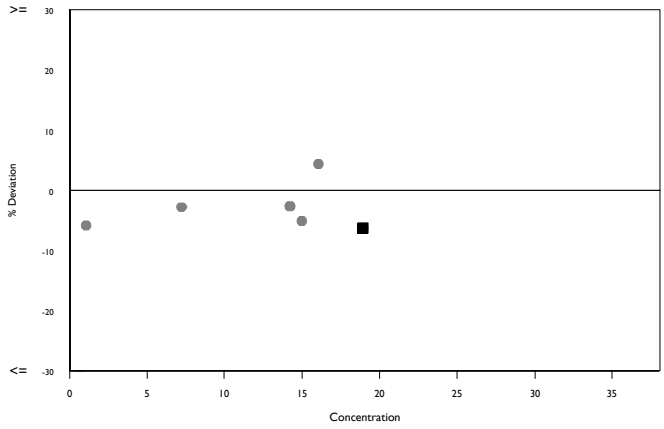


Method	N	Mean	CV%	U_m
Roche Cobas 4000/e411	83	22.840	6.9	0.22
Abbott Architect/ Alinity	76	18.926	7.5	0.20
SNIBE Maglumi analysers	53	18.578	10.0	0.32
Monobind Inc ELISA	47	31.777	13.2	0.77
Roche Cobas e601/602	44	22.908	4.9	0.21
ELISA	40	29.826	17.4	1.03
bioMerieux, VIDAS TPSA	38	24.429	10.7	0.53
Beckman Access standardised to Hybritech	28	24.039	10.6	0.60
Roche Cobas e402/e801	21	22.564	8.0	0.49
Siemens Dimension	16	23.614	6.4	0.47
Tosoh AIA Series	15	18.098	5.5	0.32
Ortho Vitros 3600/5600/ECi	13	21.546	5.8	0.44
Beckman DXI standardised to Hybritech	10	24.004	4.3	0.41
Ortho Vitros 3600/5600/ECi PSA II	8	21.575	4.9	0.46
Mindray CL-Series	9	28.195	7.0	0.82
Siemens Immulite 2000/2500, Total PSA	9	22.667	14.3	1.35
Siemens Centaur XP/XPT	8	22.550	7.7	0.77
Siemens Centaur CP	6	20.830	1.9	0.20
Siemens Atellica IM	7	22.160	5.7	0.60
Roche Elecsys Modular E170	6	21.820	14.3	1.60
Boditech Med Inc i-CHROMA	5	20.774	10.3	1.20









RIQAS

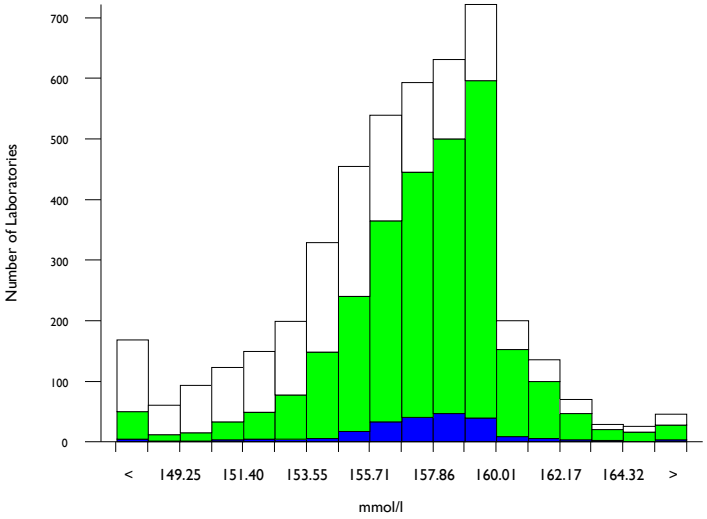
UKAS PROFICIENCY TESTING 0010

Sodium, mmol/l

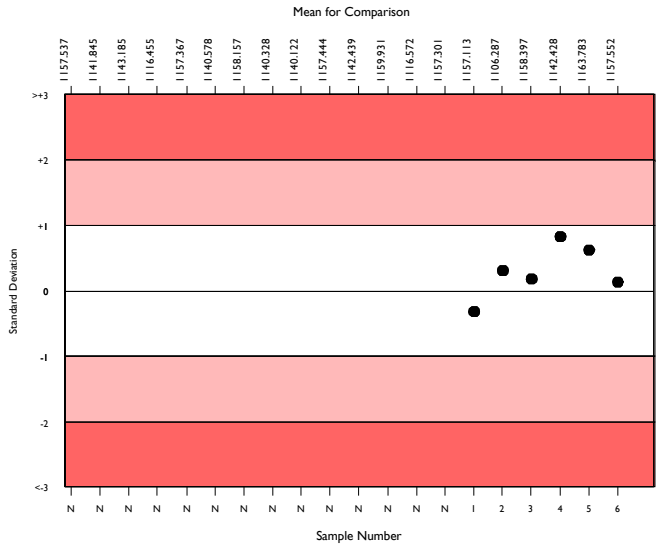
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	4244	156.787	1.8	0.06	3.43	326
ISE method - indirect	2647	157.591	1.4	0.05	3.45	247
Abbott Architect c systems	202	157.552	1.2	0.17	3.45	22

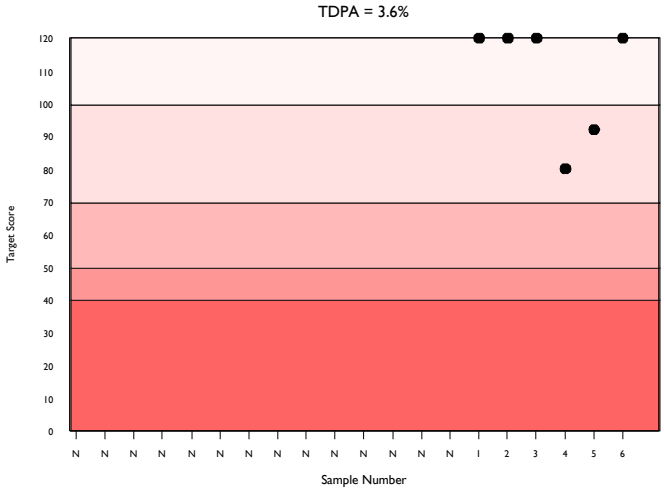
▲ Your Result	158.000	SDI	0.13
		RMSDI	Too Few
Mean for Comparison	157.552	TS	120
		RMTS	Too Few
		%DEV	0.3
		RM%DEV	Too Few

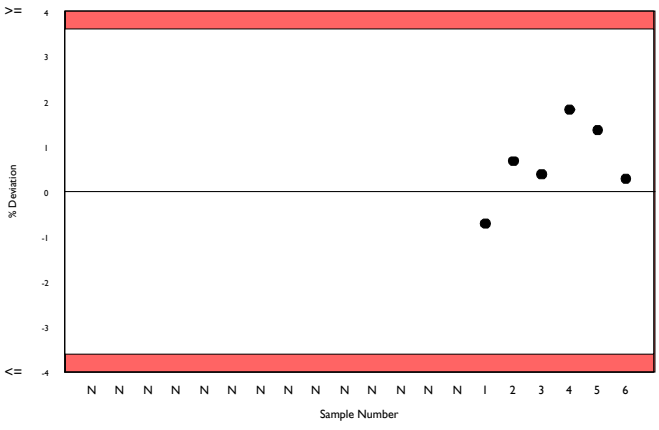
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	3.60%

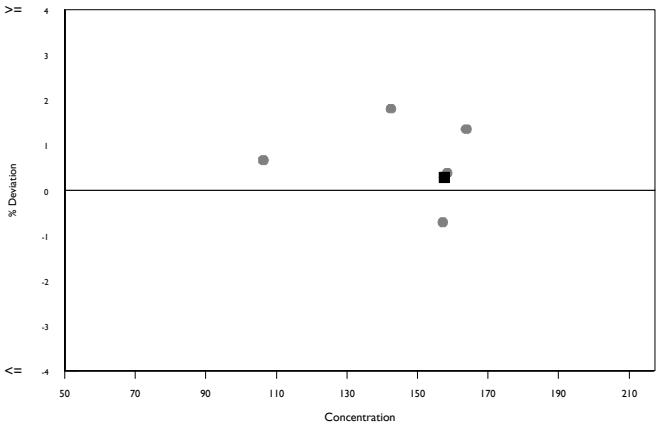


Method	N	Mean	CV%	U_m
ISE method - indirect	2647	157.591	1.4	0.05
ISE method - direct	1260	155.113	2.3	0.12
Ortho Vitros MicroSlide Systems	170	154.941	1.7	0.26
Other Dry Chemistry	46	155.589	2.0	0.58
Colorimetric	35	150.361	2.0	0.63
Agappe - ISE DIRECT	22	156.332	1.4	0.60
Flame photometry	13	154.108	2.1	1.11
Enzymatic	12	160.128	3.9	2.28
Vitros, DT60/DT60 II/DTE II	4	155.425	0.7	0.66
Optical Fluorescence	4	158.800	3.0	2.97









RIQAS

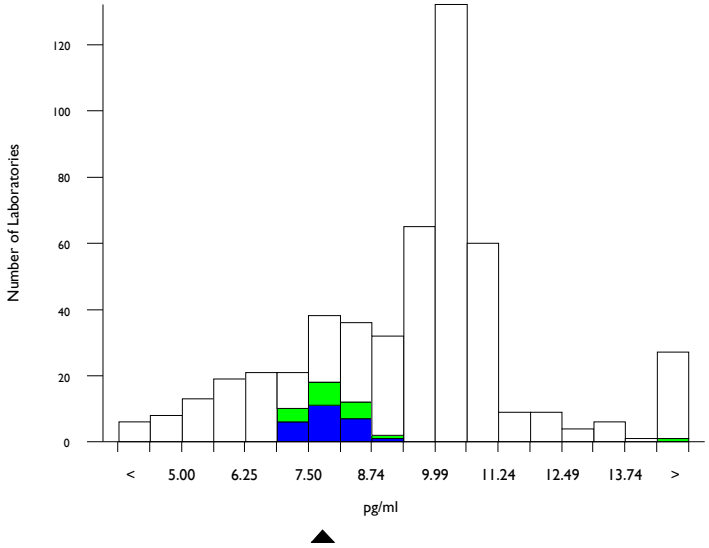
UKAS PROFICIENCY TESTING 0010

Free T3, pg/ml

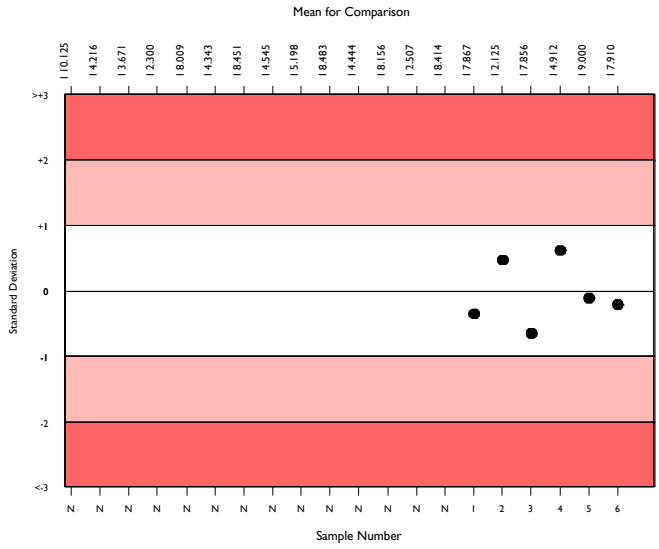
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	460	9.373	17.8	0.10	0.99	47
Abbott Architect/ Alinity, 6 point cal	42	7.900	6.2	0.09	0.84	1
Abbott Architect i Systems	25	7.910	6.3	0.12	0.84	0

▲ Your Result	7.730	SDI	-0.21
		RMSDI	Too Few
Mean for Comparison	7.910	TS	120
		RMTS	Too Few
		%DEV	-2.3
		RM%DEV	Too Few

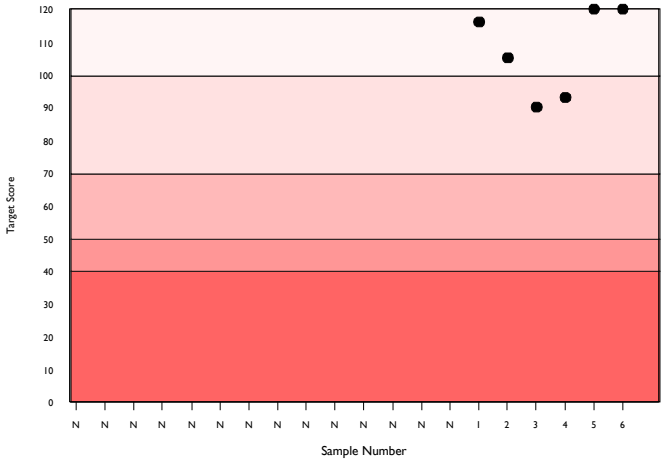
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	17.40%

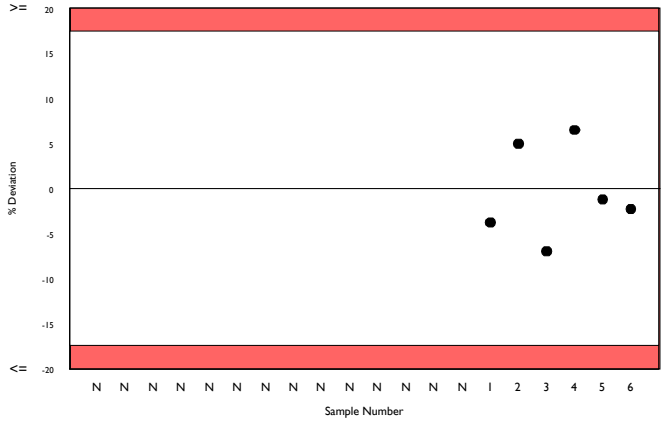


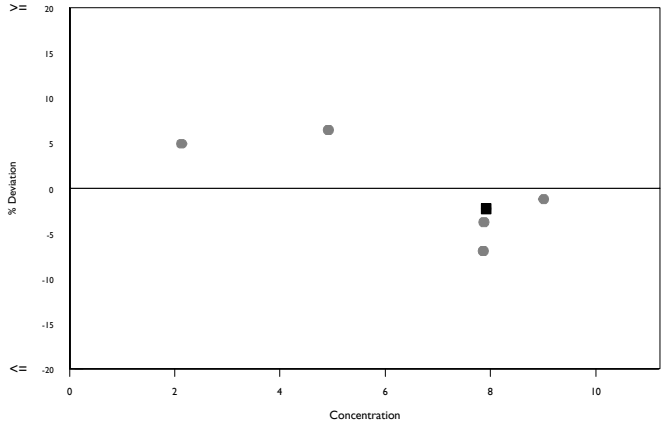
Method	N	Mean	CV%	U_m
Roche Cobas 4000/e411	83	10.205	5.1	0.07
Roche Cobas e601/602	55	10.447	2.9	0.05
BioMerieux VIDAS	43	9.735	7.0	0.13
Abbott Architect/ Alinity, 6 point cal	42	7.900	6.2	0.09
Abbott Architect/ Alinity, 2 point cal	34	8.160	5.4	0.09
Beckman Access/LXi725	29	6.403	6.3	0.09
Roche Cobas e402/e801	18	10.189	2.5	0.07
SNIBE Maglumi analysers	19	10.470	11.1	0.33
Ortho Vitros 3600/5600/ECi/XT 7600	16	20.331	4.3	0.27
Siemens Dimension Exl LOCI	15	10.270	3.0	0.10
Beckman Dxl 600/800	13	5.496	8.2	0.16
Tosoh AIA Series	14	13.193	14.6	0.64
Siemens Centaur CP	11	10.100	11.0	0.42
Siemens Centaur XP/XPT	12	9.793	5.5	0.19
Mindray CL-Series	11	8.902	8.7	0.29
ELISA	6	4.611	34.1	0.80
Siemens/DPC Immulite 2000/2500	6	5.070	7.2	0.19
Siemens Atellica IM	7	10.665	2.0	0.10
Roche Elecsys	5	10.691	1.3	0.08
Fujirebio Lumipulse G Series	6	10.688	7.9	0.43
Autobio CLIA	4	11.666	5.9	0.43



TDPA = 17.4%







RIQAS

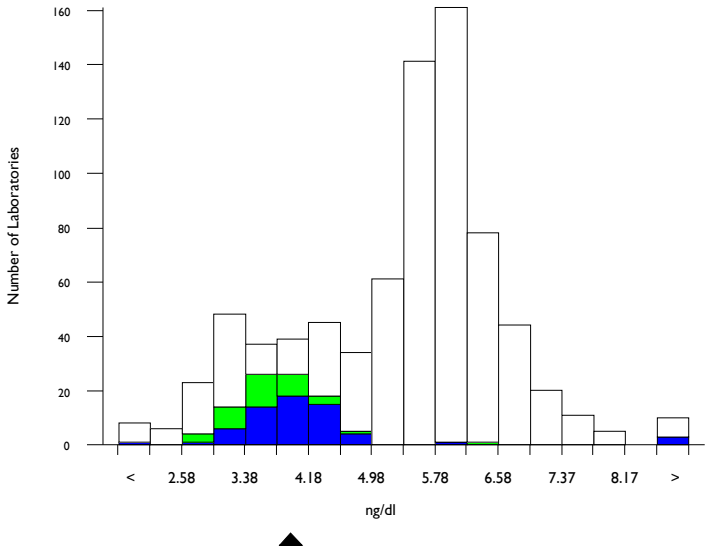
UKAS PROFICIENCY TESTING 0010

Free T4, ng/dl

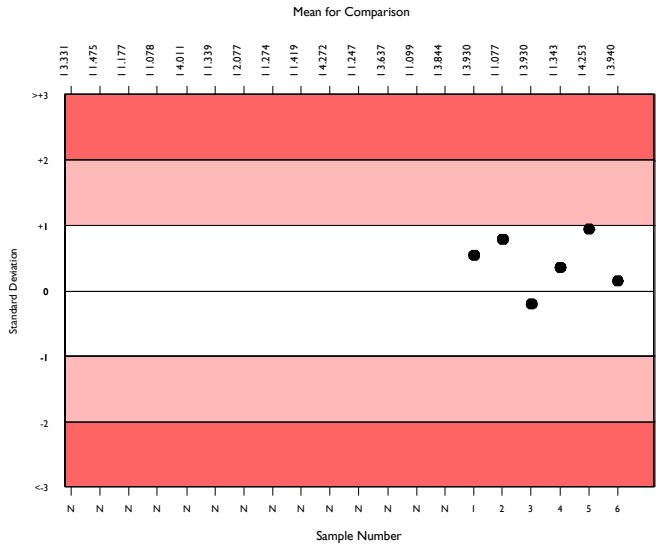
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	715	5.380	19.8	0.05	0.66	87
Abbott Architect/ Alinity	90	3.784	11.7	0.06	0.46	11
Abbott Architect i Systems	56	3.940	10.5	0.07	0.48	8

▲ Your Result	4.010	SDI	0.14
		RMSDI	Too Few
Mean for Comparison	3.940	TS	120
		RMTS	Too Few
		%DEV	1.8
		RM%DEV	Too Few

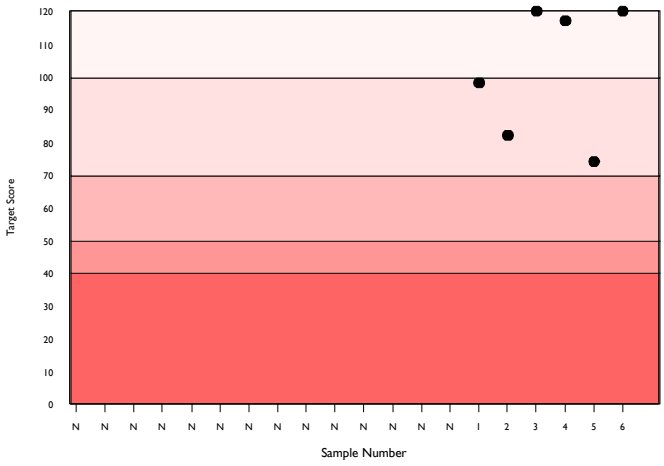
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	20.10%

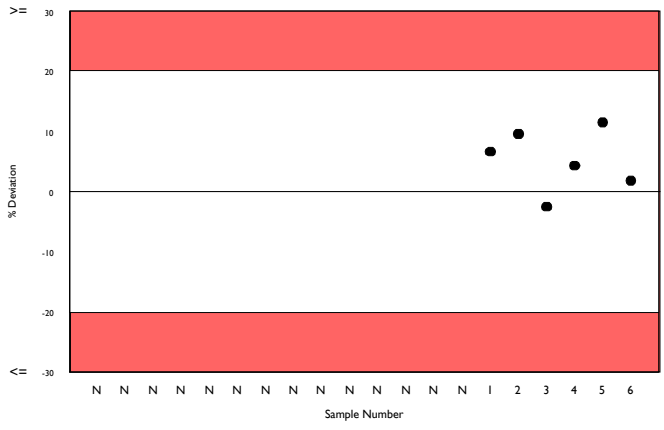


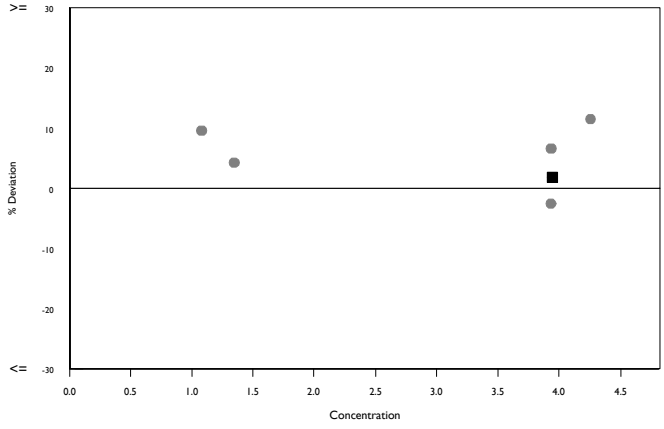
Method	N	Mean	CV%	U_m
Roche Cobas 4000/e411	112	5.976	6.3	0.04
Abbott Architect/ Alinity	90	3.784	11.7	0.06
Roche Cobas e601/ 602	69	5.912	6.5	0.06
SNIBE Maglumi analysers	56	5.709	4.4	0.04
bioMerieux, VIDAS-FT4N Kit	43	5.958	3.2	0.04
Monobind Inc ELISA / CLIA	45	3.074	10.9	0.06
Beckman Access/LXi725	41	5.010	9.7	0.09
Roche Cobas e402/e801	33	6.075	6.7	0.09
Ortho Vitros 3600/5600/ECi/XT/7600	9	7.055	1.8	0.05
ELISA	21	3.477	21.5	0.20
Tosoh AIA Series	20	6.082	5.0	0.09
Beckman Dxl 600/800	21	5.194	6.3	0.09
Mindray CL-Series	15	4.180	3.6	0.05
Siemens Dimension Exl LOCI	18	6.384	7.0	0.13
Siemens Centaur XP/XPT	14	4.936	5.8	0.10
Siemens Centaur CP	14	5.711	7.9	0.15
Siemens/DPC Immulite 2000/2500	6	5.802	3.6	0.11
Roche Elecsys	9	6.284	3.8	0.10
Siemens/DPC Immulite 1000	8	5.764	5.2	0.13
Siemens Atellica IM	8	5.475	4.5	0.11
Fujirebio Lumipulse G Series	6	5.595	14.2	0.41



TDPA = 20.1%







RIQAS

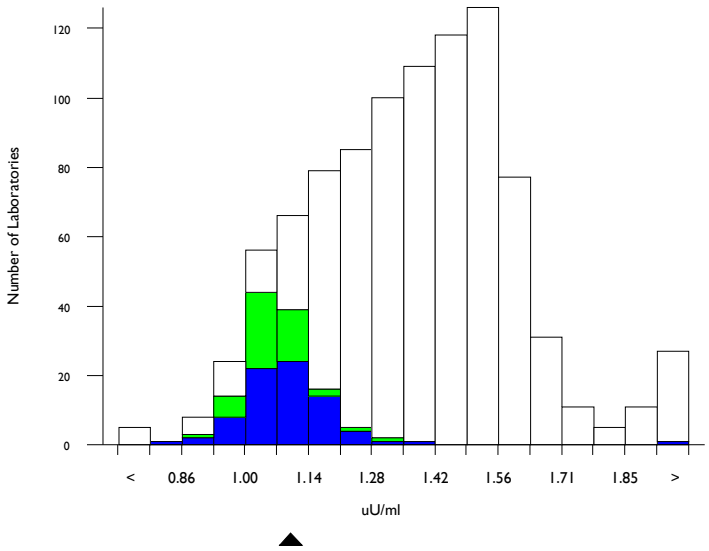
UKAS PROFICIENCY TESTING 0010

TSH, uU/ml

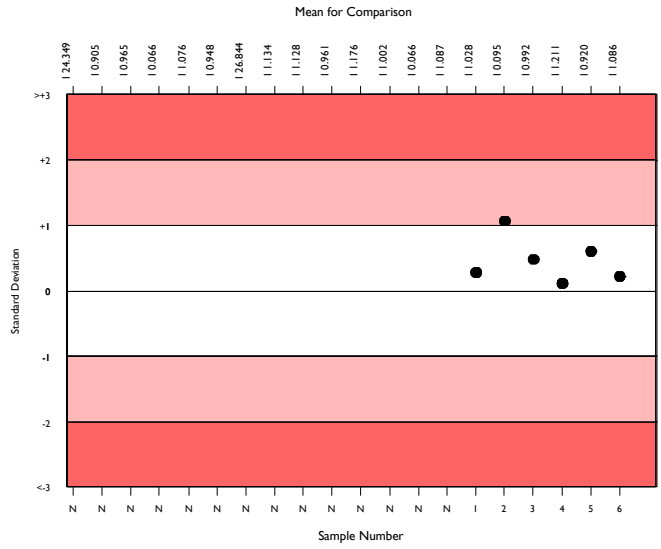
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	883	1.357	13.9	0.01	0.20	57
Abbott Architect/ Alinity	113	1.073	5.5	0.01	0.16	13
Abbott Architect i Systems	69	1.086	6.0	0.01	0.16	9

▲ Your Result	1.120	SDI	0.22
		RMSDI	Too Few
Mean for Comparison	1.086	TS	120
		RMTS	Too Few
		%DEV	3.1
		RM%DEV	Too Few

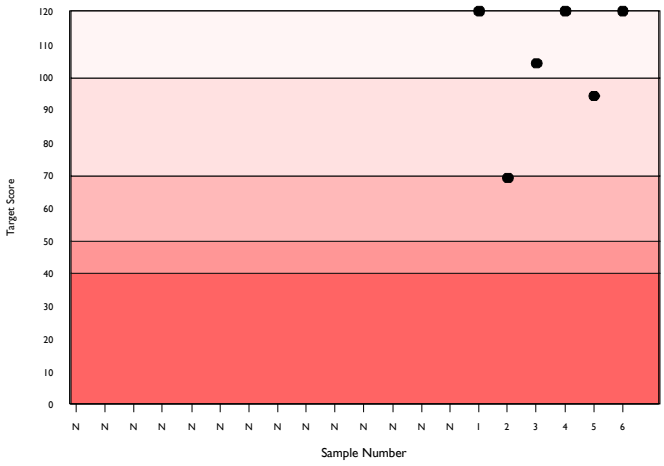
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	23.90%

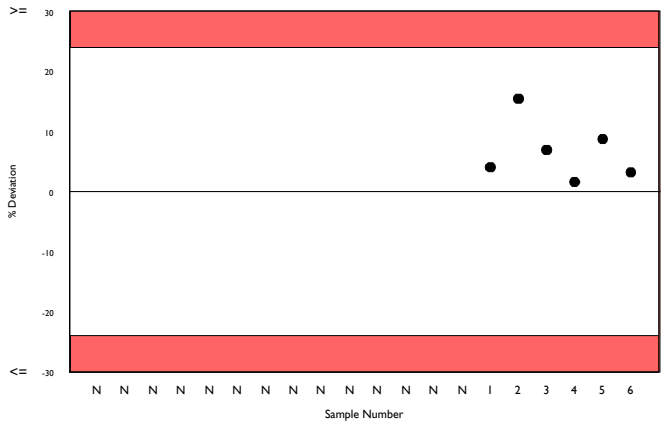


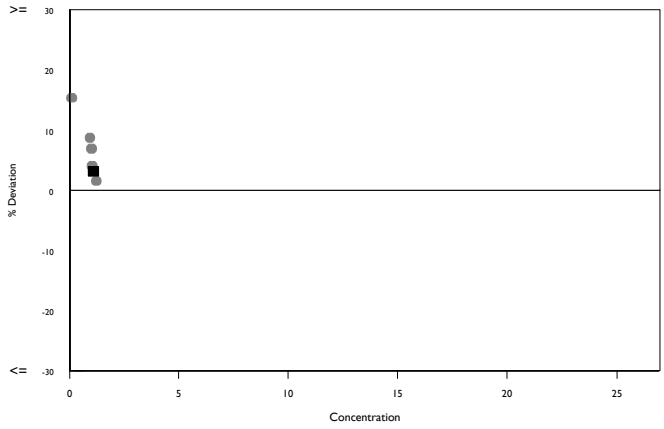
Method	N	Mean	CV%	U_m
Roche Cobas 4000/e411	129	1.551	4.7	0.01
Abbott Architect/ Alinity	113	1.073	5.5	0.01
Roche Cobas e601/ 602	77	1.514	3.1	0.01
SNIBE Maglumi analysers	70	1.405	5.4	0.01
Monobind Inc ELISA / CLIA	55	1.298	11.2	0.02
Biomerieux VIDAS TSH	50	1.402	6.0	0.01
ELISA	34	1.262	14.8	0.04
Beckman DXI600/800/ Access 2 (3rd IS)	35	1.286	5.5	0.01
Roche Cobas e402/e801	29	1.473	3.7	0.01
Beckman Access/LXi725 hyper TSH 3rd gen.	30	1.273	6.8	0.02
Ortho Vitros 3600/5600/ECi/XT 7600	25	1.269	6.4	0.02
Tosoh AIA Series	24	1.363	12.9	0.04
Mindray CL-Series	17	1.769	5.5	0.03
Siemens Dimension Exl LOCI	18	1.240	6.1	0.02
Siemens Centaur CP	16	1.222	10.5	0.04
Roche Elecsys	13	1.529	6.3	0.03
Siemens/DPC Immulite 2000/2500	12	1.449	7.8	0.04
Siemens Atellica IM	12	1.219	5.8	0.03
Siemens/DPC Immulite 1000	11	1.423	11.1	0.06
Ortho Vitros TSH3	10	1.278	5.0	0.03
Siemens Centaur XP/XPT	8	1.406	16.5	0.10



TDPA = 23.9%







RIQAS

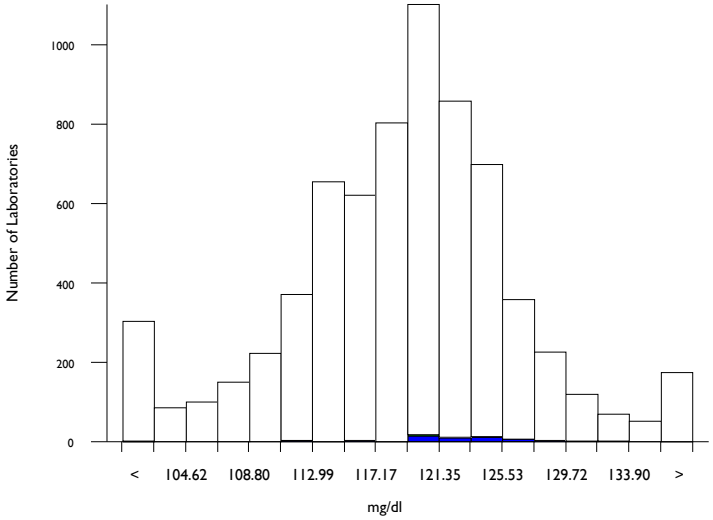
UKAS PROFICIENCY TESTING 0010

Urea, mg/dl

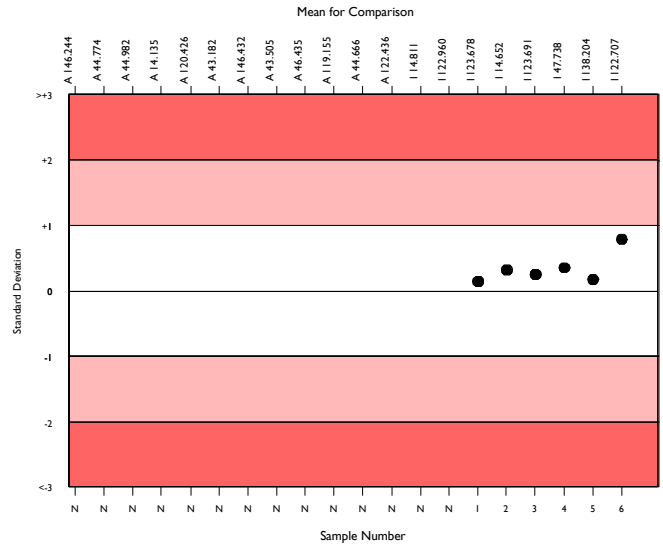
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	6353	119.265	4.7	0.09	9.06	621
Abbott Architect Urea Nitrogen 2	62	122.512	2.8	0.55	9.31	8
Abbott Architect c systems	55	122.707	2.9	0.60	9.32	7

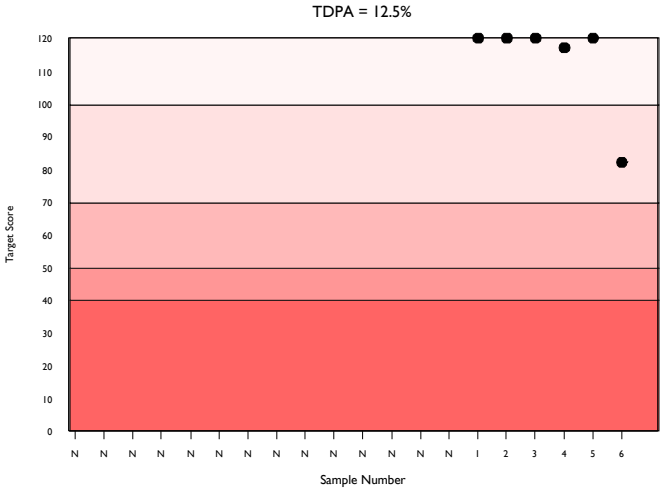
Your Result	130.000	SDI	0.78
		RMSDI	Too Few
Mean for Comparison	122.707	TS	82
		RMTS	Too Few
		%DEV	5.9
		RM%DEV	Too Few

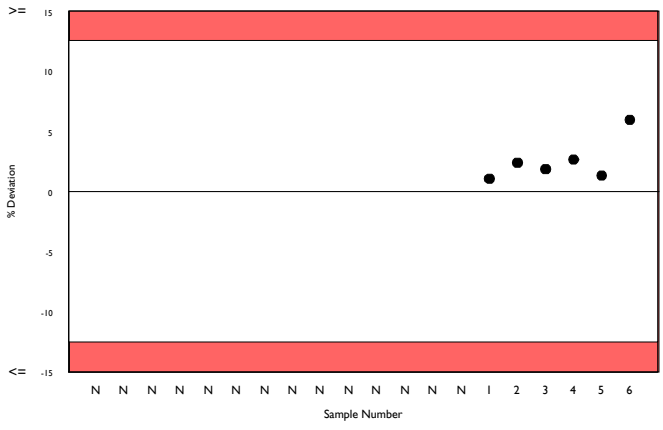
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	12.50%

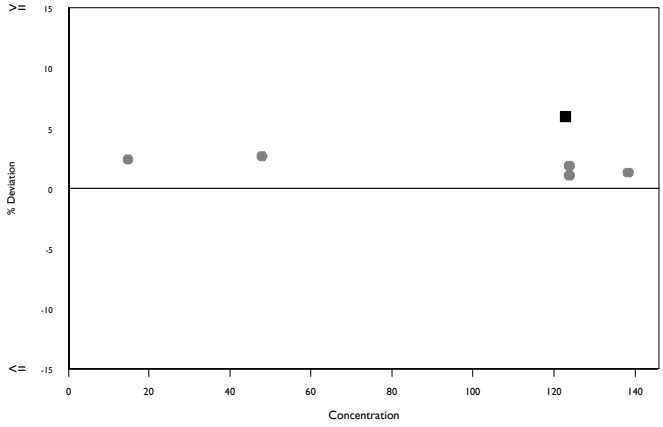


Method	N	Mean	CV%	U_m
Urease, kinetic	5378	119.461	4.6	0.09
Urease, end point	408	119.364	5.6	0.41
Ortho Vitros MicroSlide Systems	216	114.029	2.5	0.25
Urease, hypochlorite	96	115.904	4.9	0.72
Agappe - UREASE GLDH	78	115.269	5.2	0.84
Abbott Architect Urea Nitrogen 2	62	122.512	2.8	0.55
Other Dry Chemistry	56	125.893	2.8	0.59
Beckman - Conductivity	39	121.828	5.7	1.40
Agappe - BERTHELOT	7	110.144	6.0	3.13
Diacetyl monoxime	7	117.667	6.6	3.68
O-Phthalaldehyde	4	119.775	1.1	0.81









RIQAS

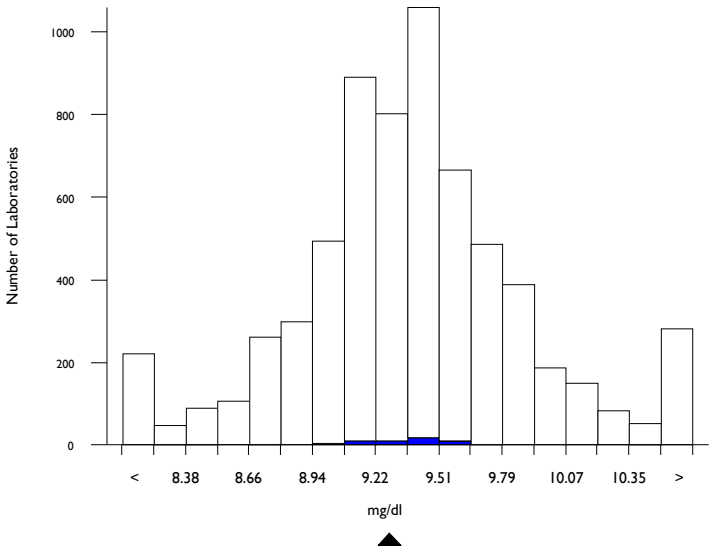
UKAS PROFICIENCY TESTING 0010

Uric Acid (Urate), mg/dl

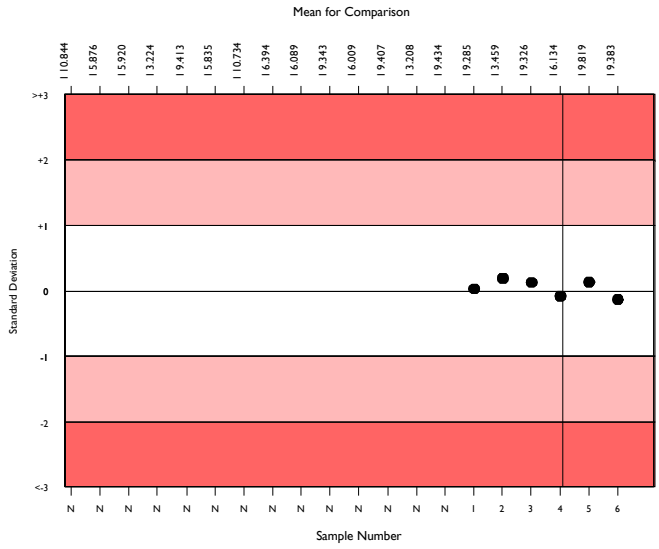
	N	Mean	CV%	U_m	SDPA	Exc.
All Methods	5951	9.370	4.0	0.01	0.60	594
Abbott Architect Uric Acid 2	48	9.389	1.5	0.03	0.60	6
Abbott Architect c systems	46	9.383	1.5	0.03	0.60	6

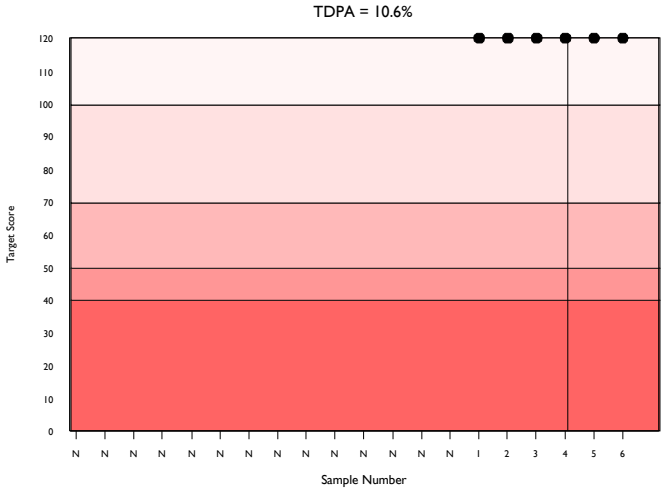
Your Result	9.300	SDI	-0.14
		RMSDI	Too Few
Mean for Comparison	9.383	TS	120
		RMTS	Too Few
		%DEV	-0.9
		RM%DEV	Too Few

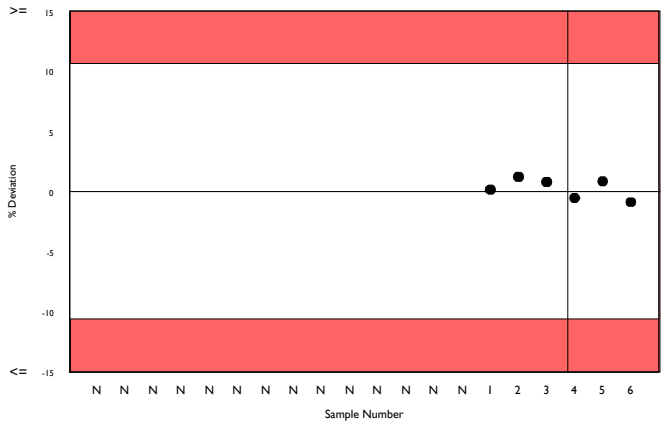
Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	10.60%

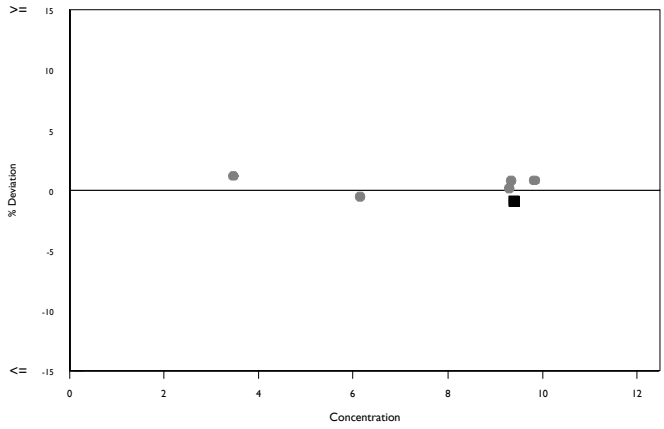


Method	N	Mean	CV%	U_m
Uricase perox. no ascorb. ox.	2389	9.359	4.3	0.01
Uricase Perox. with ascorb. ox	1587	9.469	3.7	0.01
Uricase Perox. with ascorb. ox @ 546nm	1173	9.304	3.7	0.01
Ortho Vitros MicroSlide Systems	213	8.936	2.3	0.02
Uricase @ 293 nm	204	9.407	2.2	0.02
Uricase, catalase 340nm.	110	9.490	2.5	0.03
Abbott Alinity Uric Acid 2	76	9.339	1.5	0.02
Agappe - URICASE - PAP	51	9.868	3.7	0.06
Abbott Architect Uric Acid 2	48	9.389	1.5	0.03
Other Dry Chemistry	40	10.242	4.3	0.09
Agappe - URICASE - TOPS	26	9.261	7.7	0.17
Reduction methods	18	9.450	6.0	0.17
Vitros DT60/DT60 II	3	8.825	1.7	0.11









RIQAS

UKAS PROFICIENCY TESTING 0010

Analyte	Mean for Comparison	Your Result	SDI	RMSDI	%DEV	RM%DEV	TS	RMTS	Performance
Albumin	2.881	2.700	-1.15	Too Few	-6.3	Too Few	66	Too Few	
Alkaline Phosphatase	330.633	348.000	0.47	Too Few	5.3	Too Few	105	Too Few	
ALT (GPT)	118.431	115.000	-0.32	Too Few	-2.9	Too Few	120	Too Few	
Amylase, Pancreatic	258.751	256.000	-0.09	Too Few	-1.1	Too Few	120	Too Few	
Amylase, Total	314.352	318.000	0.11	Too Few	1.2	Too Few	120	Too Few	
AST (GOT)	161.687	165.000	0.23	Too Few	2.0	Too Few	120	Too Few	
Bile Acids	40.677	42.700	0.33	Too Few	5.0	Too Few	119	Too Few	
Bilirubin, Direct	1.839	2.100	0.90	Too Few	14.2	Too Few	76	Too Few	
Bilirubin, Total	5.218	6.300	***2.15***	Too Few	***20.7***	Too Few	***38***	Too Few	▲
Calcium	13.286	13.400	0.17	Too Few	0.9	Too Few	120	Too Few	
Chloride	113.894	114.000	0.03	Too Few	0.1	Too Few	120	Too Few	
Cholesterol	285.185	285.000	-0.01	Too Few	-0.1	Too Few	120	Too Few	
CK, Total	574.441	572.000	-0.06	Too Few	-0.4	Too Few	120	Too Few	
Creatinine	4.809	4.970	0.44	Too Few	3.3	Too Few	108	Too Few	
GGT	173.272	179.000	0.30	Too Few	3.3	Too Few	120	Too Few	
Glucose	275.785	274.000	-0.13	Too Few	-0.6	Too Few	120	Too Few	
HDL-Cholesterol	102.244	101.000	-0.09	Too Few	-1.2	Too Few	120	Too Few	
Iron	221.295	225.000	0.28	Too Few	1.7	Too Few	120	Too Few	
LD (LDH)	370.178	372.000	0.06	Too Few	0.5	Too Few	120	Too Few	
LDL-Cholesterol (Pilot)	119.238	117.000	-0.15	Too Few	-1.9	Too Few	120	Too Few	
Lipase	64.756	66.000	0.12	Too Few	1.9	Too Few	120	Too Few	
Lithium	1.970	2.890	***6.57***	Too Few	***46.7***	Too Few	***10***	Too Few	▲
Magnesium	4.312	4.410	0.34	Too Few	2.3	Too Few	118	Too Few	
Phosphate, Inorganic	7.208	7.000	-0.51	Too Few	-2.9	Too Few	101	Too Few	
Potassium	6.083	6.100	0.08	Too Few	0.3	Too Few	120	Too Few	
Protein, Total	4.762	4.700	-0.25	Too Few	-1.3	Too Few	120	Too Few	
PSA, Total	18.890	17.700	-0.42	Too Few	-6.3	Too Few	109	Too Few	
Sodium	157.552	158.000	0.13	Too Few	0.3	Too Few	120	Too Few	
Free T3	7.910	7.730	-0.21	Too Few	-2.3	Too Few	120	Too Few	
Free T4	3.940	4.010	0.14	Too Few	1.8	Too Few	120	Too Few	
TSH	1.086	1.120	0.22	Too Few	3.1	Too Few	120	Too Few	
Urea	122.707	130.000	0.78	Too Few	5.9	Too Few	82	Too Few	
Uric Acid (Urate)	9.383	9.300	-0.14	Too Few	-0.9	Too Few	120	Too Few	

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

END OF REPORT

RIQAS

UKAS PROFICIENCY TESTING 0010