



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY
CMC EXTERNAL QUALITY ASSURANCE SCHEME
MONTHLY SUMMARY REPORT - JANUARY 2024



PC-1024

Lab Name **WELL DYNAMIC DIAGNOSTIC PVT LTD** Lab No **19022**
Constituent Group **Chemistry I** Date of Result Entered : **15/01/2024**
PT item **Lyophilized human serum based** Date of Report Published : **06/02/2024**

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	AV	Participants		Your Value	Z Score	u*
						CV	SDPA			
1	GLUCOSE	GOD-POD	Any Analyser (Automation / Semi Automation)	1085	124.31	6.16	7.66	114 mg/dL	1.34	0.47
2	UREA	Urease UV / GLDH	Any Analyser (Automation / Semi Automation)	937	36.03	11.25	4.05	36.7 mg/dL	0.17	0.26
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Any Analyser (Automation / Semi Automation)	811	1.75	10.50	0.18	1.76 mg/dL	0.05	0.01
4	T.BILIRUBIN	Diazonium salt (Colorimetric) / Jendrassik	Any Analyser (Automation / Semi Automation)	931	2.04	15.85	0.32	2.3 mg/dL	0.80	0.02
5	T-PROTEIN	Biuret - Colorimetric	Any Analyser (Automation / Semi Automation)	1115	5.24	6.24	0.33	4.65 g/dL	-1.80	0.02
6	ALBUMIN	BCG - colorimetric	Any Analyser (Automation / Semi Automation)	1035	3.14	9.56	0.30	3 g/dL	-0.47	0.02
7	CALCIUM	Arsenazo III	Any Analyser (Automation / Semi Automation)	917	8.87	6.62	0.59	8.7 mg/dL	-0.29	0.04
8	URIC ACID	Enzymatic / Uricase Colorimetric	Any Analyser (Automation / Semi Automation)	1037	5.16	11.96	0.62	4.53 mg/dL	-1.02	0.04
9	CHOLESTEROL	CHOD-PAP	Any Analyser (Automation / Semi Automation)	1074	111.60	6.78	7.56	107 mg/dL	-0.61	0.46
10	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Any Analyser (Automation / Semi Automation)	1092	148.75	6.31	9.38	137.4 mg/dL	-1.21	0.57
11	HDL	Direct method / Enzymatic colorimetric	Any Analyser (Automation / Semi Automation)	868	27.20	9.93	2.70	24 mg/dL	-1.18	0.18
12	AST	UV kinetic(with & without PLP (P-5-P))	Any Analyser (Automation / Semi Automation)	1048	105.39	7.40	7.80	114.2 U/L	1.13	0.48
13	ALT	UV kinetic(with & without PLP (P-5-P))	Any Analyser (Automation / Semi Automation)	1048	44.50	13.19	5.87	46 U/L	0.26	0.36
14	ALP	PNP AMP kinetic	Any Analyser (Automation / Semi Automation)	883	182.76	9.88	18.06	220 U/L	2.06	1.22
15	IRON	Ferrene (No Protein Removal)	Any Analyser (Automation / Semi Automation)	114	87.10	18.54	16.15	71.3 ug/dL	-0.98	3.03

u* - Method of Uncertainty

Z-Score	Interpretation
$ z \leq 2.0$	Acceptable
$2.0 < z < 3.0$	Warning Signal
$ z \geq 3.0$	Unacceptable (action Signal)

LAB ADDRESS :

WELL DYNAMIC DIAGNOSTIC PVT LTD
139, POCKET-4, SECTOR -22
ROHINI
DELHI110086

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Dr. Pamela Christudoss
CMC EQAS Coordinator
Christian Medical College, Vellore

Homogeneity and Stability of the sample is passed.

Data in CMC EQAS reports is confidential

CMC EQAS does not sub contract any components

******* End of Report *******

Unique Wellness Care

MONTHLY CLINICAL CHEMISTRY

CYCLE 19 SAMPLE 8

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

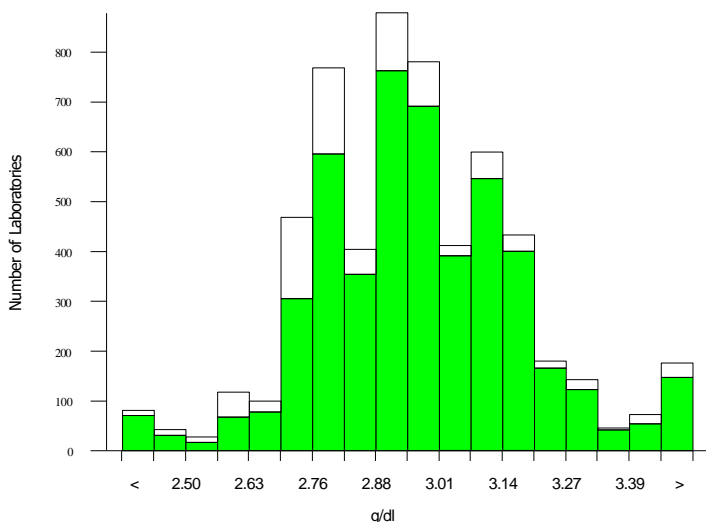
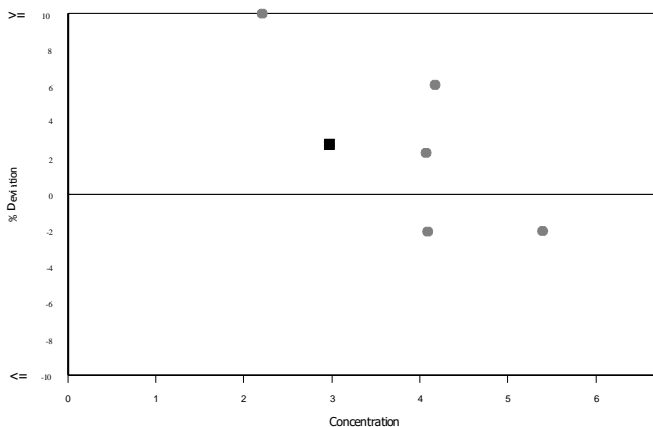
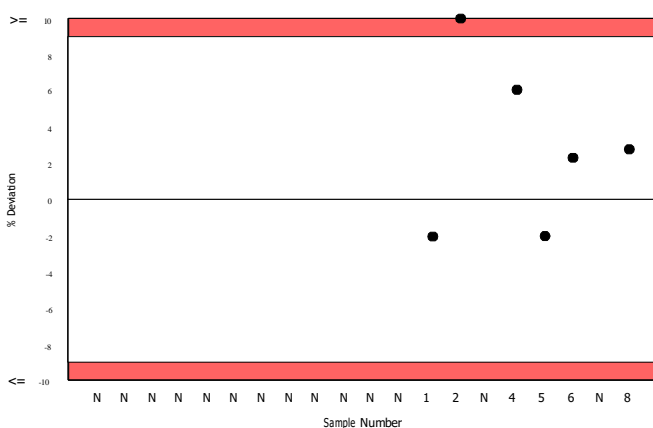
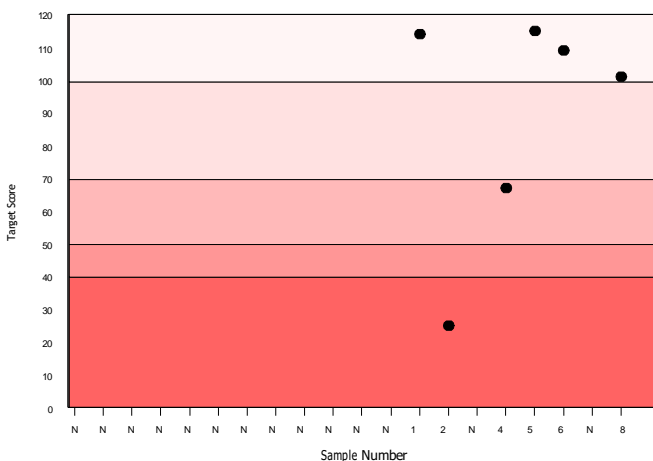
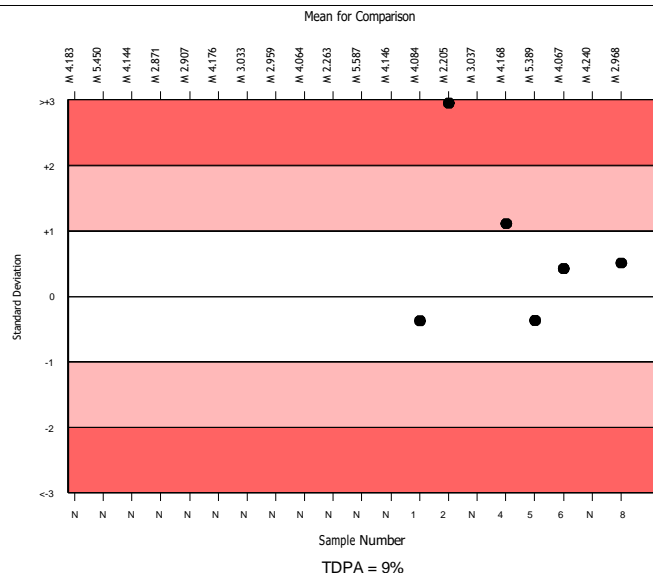
Issue Date: 02/09/2022

Albumin, g/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5326	2.953	5.8	0.00	0.16	406
Bromocresol Green	4511	2.968	5.6	0.00	0.16	332
Tulip Coralyzer 200	2	3.125	3.4	0.09	0.19a	0

▲ Your Result	3.050	SDI	0.51
		RMSDI	Too Few
■ Mean for Comparison	2.968	TS	101
		RMST	Too Few
		%DEV	2.8
		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	4511	2.968	5.6	0.00
Bromocresol Purple	482	2.788	4.7	0.01
Ortho Vitros MicroSlide Systems	202	2.901	3.7	0.01
Agappe - Bromocresol Green	57	3.172	4.3	0.02
Other Dry Chemistry	35	3.389	3.4	0.02
Turbidimetric Assays	30	2.934	7.3	0.05
Nephelometric Assays	5	2.942	11.4	0.19
Vitros DT60/DT60 II/DTSC II	4	3.138	10.2	0.20
Electrophoresis	2	2.850	7.4	0.19

A

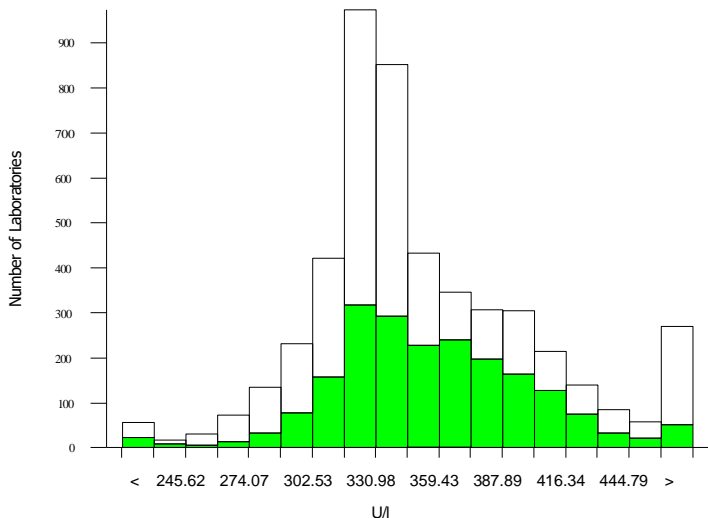
ABC

Alkaline Phosphatase, U/l @ 37°C

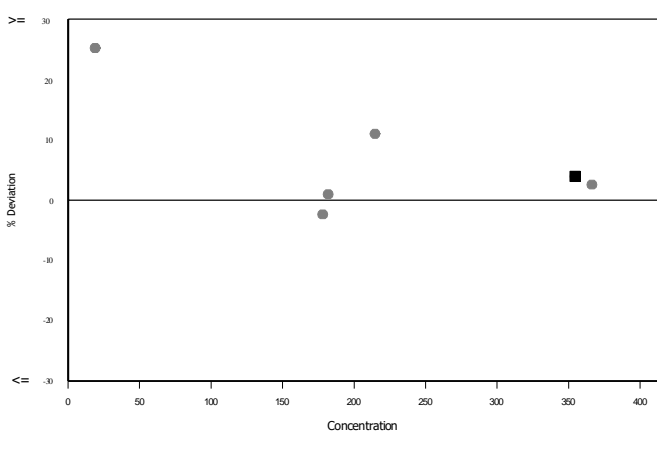
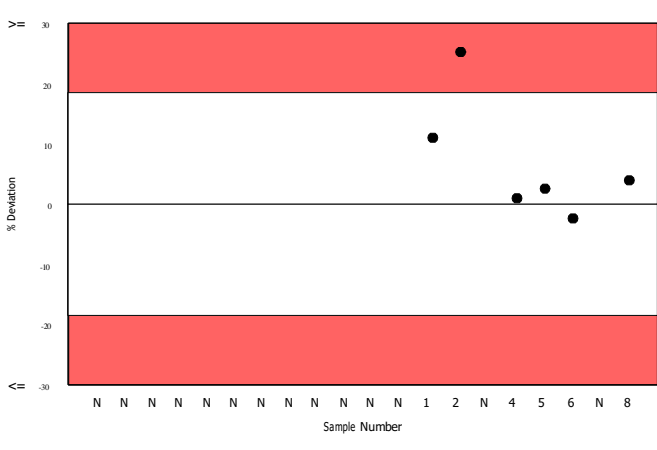
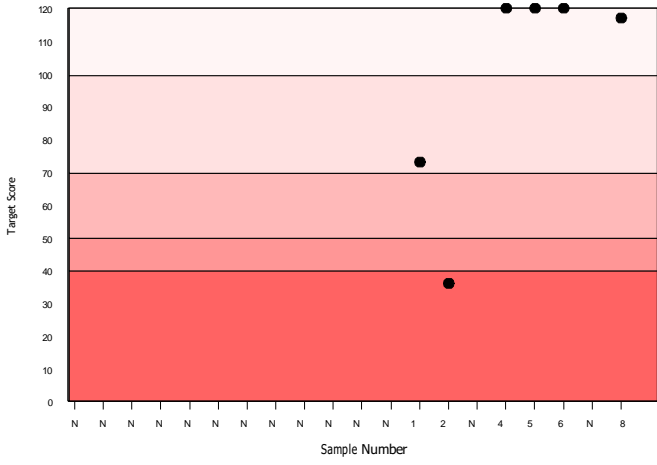
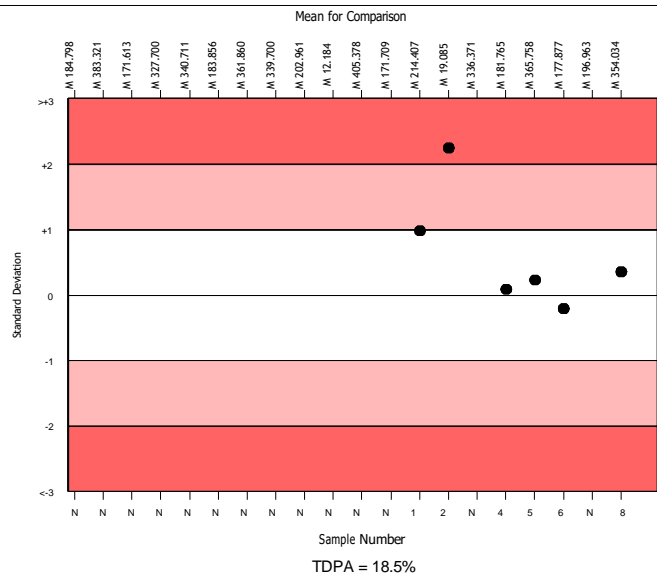
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All Methods	4530	345.212	11.0	0.70	38.83	407
AMP optimised to IFCC	1919	354.034	10.0	1.01	39.82	136
Tulip Coralyzer 200	2	358.000	4.0	12.50	42.16a	0

▲ Your Result	368.000	SDI	0.35
		RMSDI	Too Few
■ Mean for Comparison	354.034	TS	117
		RMTS	Too Few
		%DEV	3.9
		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	1919	354.034	10.0	1.01
Roche AMP buffer IFCC	1136	327.436	3.9	0.48
Diethanolamine buffer, DEA	459	436.456	15.5	3.96
Ortho Vitros MicroSlide Systems	224	283.520	5.6	1.33
Siemens/Dade Dimension AMP buffer	208	322.332	3.0	0.83
AMP non-optimised	200	350.886	7.4	2.29
Colorimetric	123	339.815	10.8	4.14
Beckman AMP (Calibrator)	124	390.221	5.8	2.55
Other AMP kits	55	343.090	5.2	2.99
Agappe - DGKC-SCE	43	439.213	8.8	7.38
Other Dry Chemistry	33	391.629	6.4	5.41
Beckman AMP (Extinction Coeff)	21	370.324	7.8	7.88
AMP optimised to NVKC/SFBC	8	362.013	9.1	14.55
AMPD optimised to JSCC	4	341.650	5.7	12.18
Vitros DT60/DT60 II/DTSC II	4	290.500	13.9	25.29
Fuji Dri-Chem JSCC	4	379.250	8.0	18.99
Tris/carbonate buffer	4	362.975	11.9	27.09



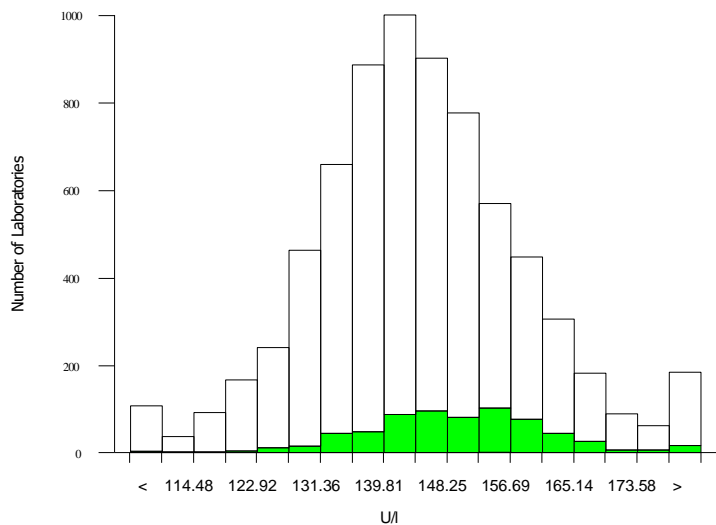
A ABC

ALT (GPT), U/I @ 37°C

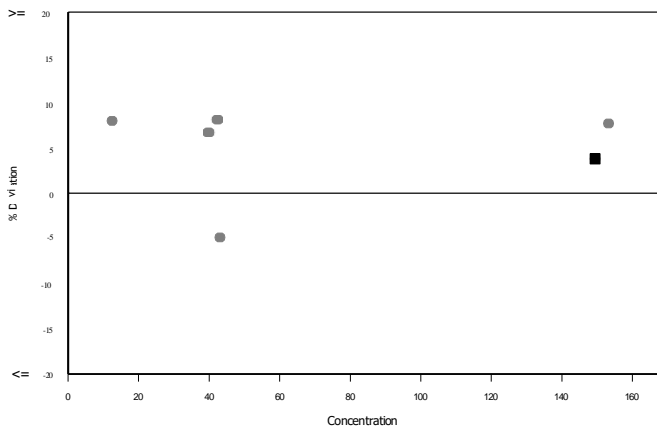
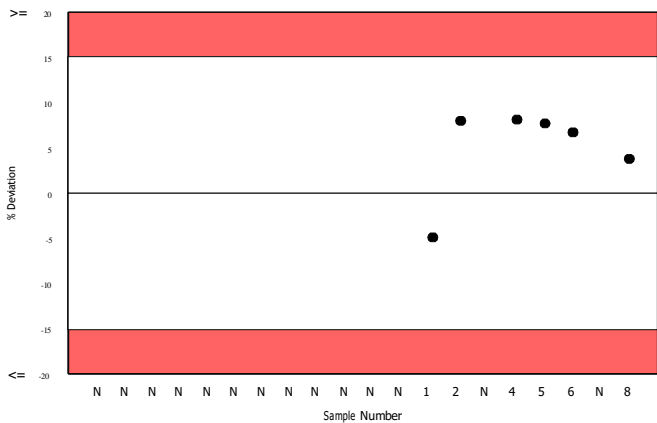
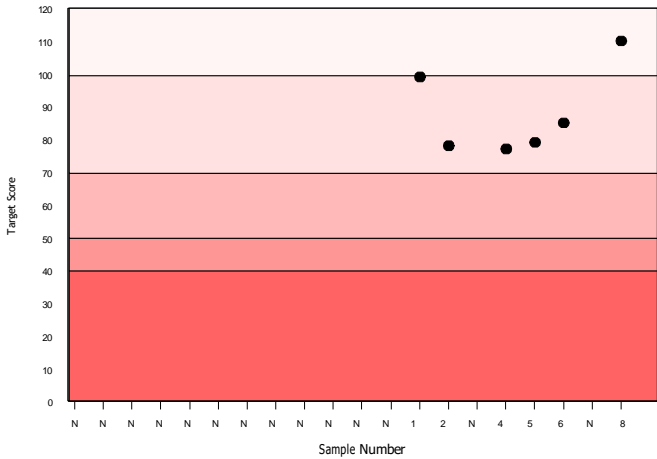
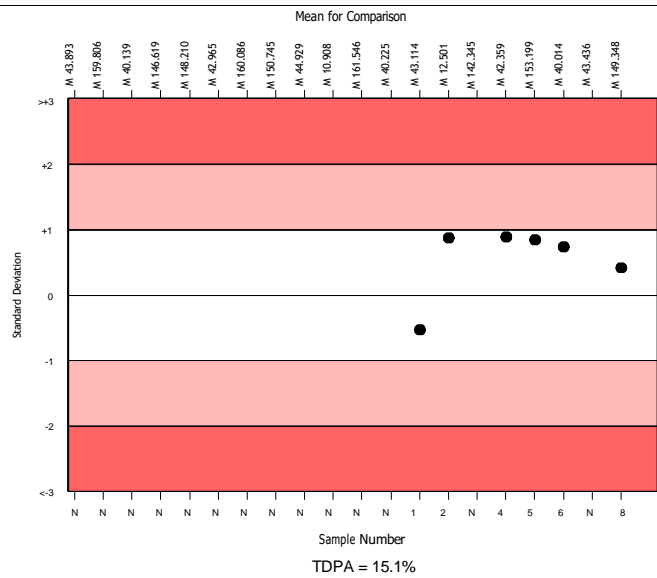
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6670	144.034	7.8	0.17	13.22	496
Tris buffer with P5P	624	149.348	6.4	0.48	13.71	45
Tulip Coralyzer 200	1	155.000	0.0	0.00	N/A	0

▲ Your Result	155.000	SDI	0.41
		RMSDI	Too Few
■ Mean for Comparison	149.348	TS	110
		RMST	Too Few
		%DEV	3.8
		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	4426	141.878	8.3	0.22
Beckman Mod. IFCC Ref. without P5P	824	147.841	4.5	0.29
Tris buffer with P5P	624	149.348	6.4	0.48
Ortho Vitros MicroSlide Systems	170	139.518	5.3	0.71
Siemens/Dade standard nonIFCC correlated	162	156.008	4.8	0.73
Beckman IFCC Ref. with P5P	98	148.443	5.6	1.06
Agappe - IFCC	79	154.566	7.8	1.70
Ortho Vitros MicroSlide visible	71	137.936	5.0	1.03
Colorimetric	55	145.915	8.7	2.13
Other Dry Chemistry	42	143.907	4.5	1.25
Phosphate buffer, DGKC	31	150.601	7.1	2.39
Tris buffer with P5P, NVKC	22	142.395	8.0	3.02
Tris buffer, SCE	16	153.488	13.4	6.44
Beckman (Extinction Coefficient)	10	143.176	7.5	4.27
Vitros DT60/DT60 I/DTSC II	5	134.400	6.7	5.02



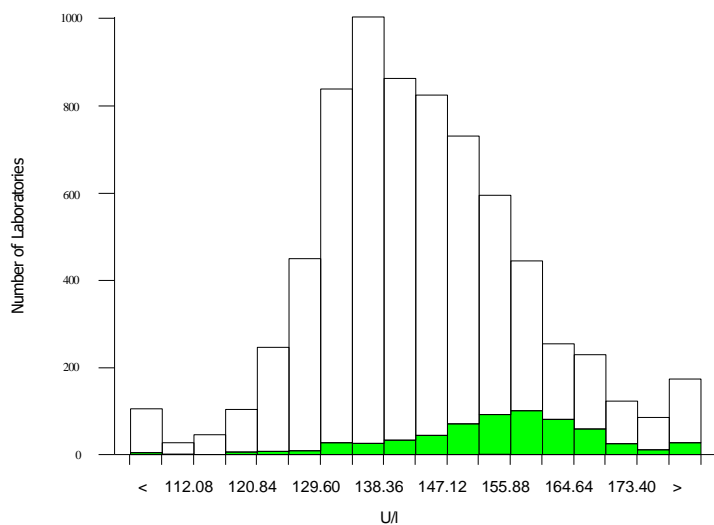
A ABC

AST (GOT), U/I @ 37°C

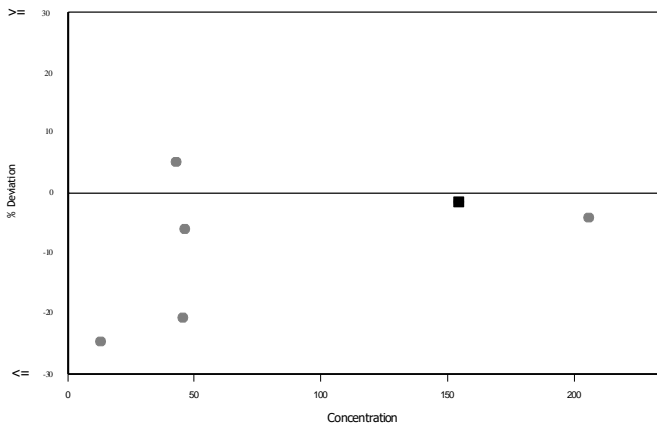
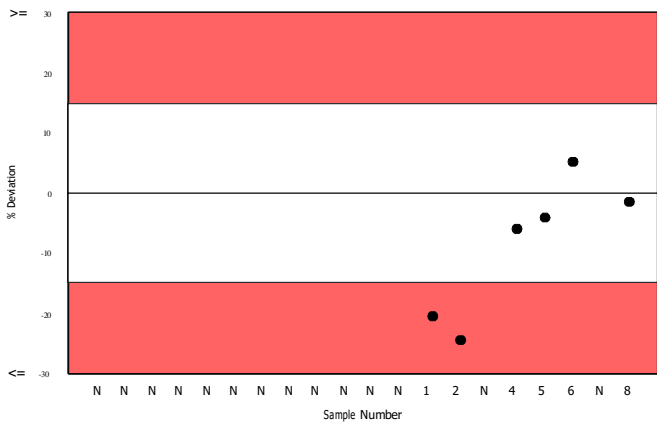
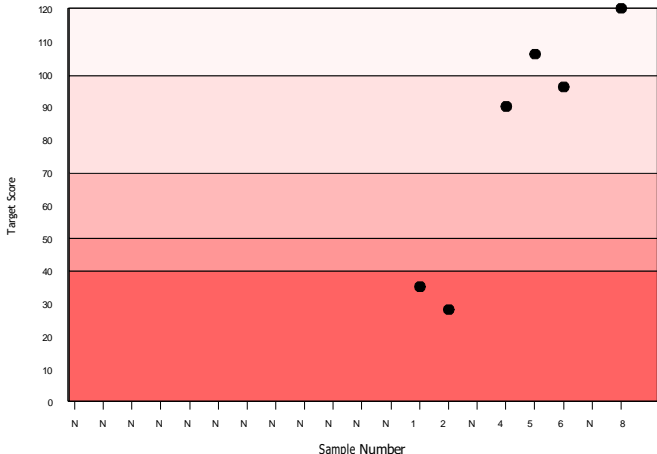
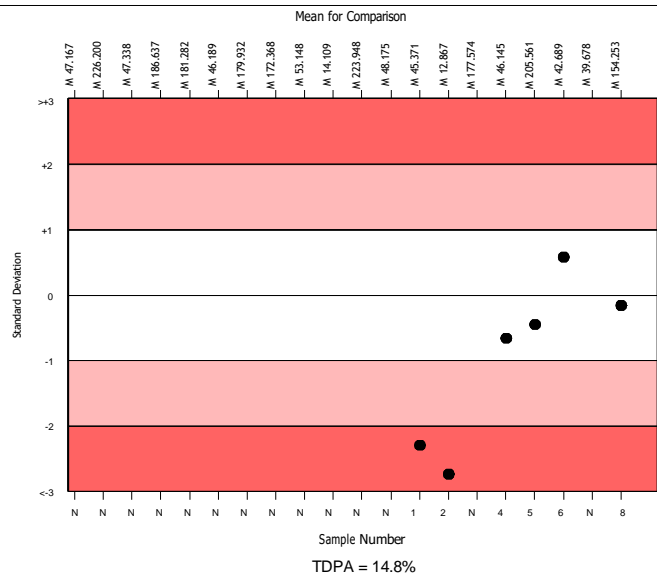
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6653	142.745	8.2	0.18	12.84	487
Tris buffer with P5P	576	154.253	7.0	0.56	13.88	51
Tulip Coralyzer 200	1	152.000	0.0	0.00	N/A	0

▲ Your Result	152.000	SDI	-0.16
		RMSDI	Too Few
■ Mean for Comparison	154.253	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	14.80 %



Method	N	Mean	CV%	U _m
Tris buffer without P5P	4423	139.047	7.3	0.19
Beckman Mod. IFCC Ref. without P5P	837	146.582	3.9	0.25
Tris buffer with P5P	576	154.253	7.0	0.56
Ortho Vitros MicroSlide visible	230	169.688	4.5	0.62
Siemens/Dade standard non IFCC corr.	171	154.990	4.9	0.73
Beckman IFCC Ref. with P5P	82	146.637	6.4	1.29
Agappe - IFCC	84	139.683	7.2	1.37
Colorimetric	50	141.533	6.0	1.50
Other Dry Chemistry	42	142.519	3.6	1.00
Phosphate buffer, DGKC	27	142.423	7.8	2.68
Tris buffer with P5P, NVKC	26	139.004	7.9	2.70
Tris buffer, SCE	14	147.216	9.7	4.78
Beckman (Extinction Coefficient)	10	139.510	9.1	5.00
Vitros DT60/DT60 II/DTSC II	6	149.167	17.1	13.03



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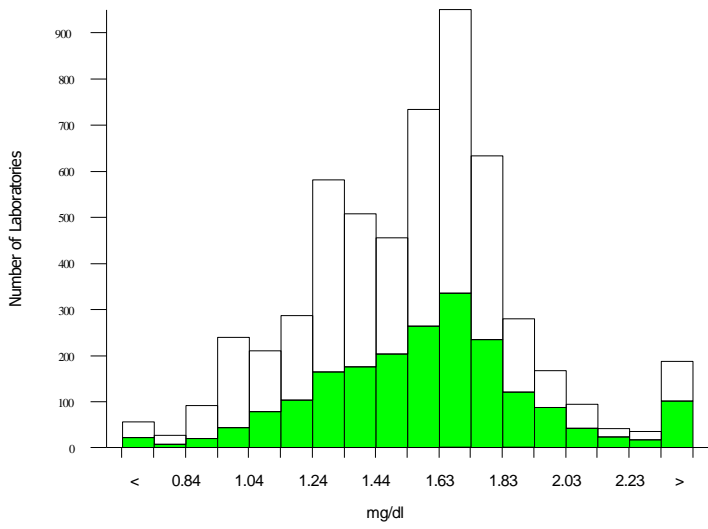
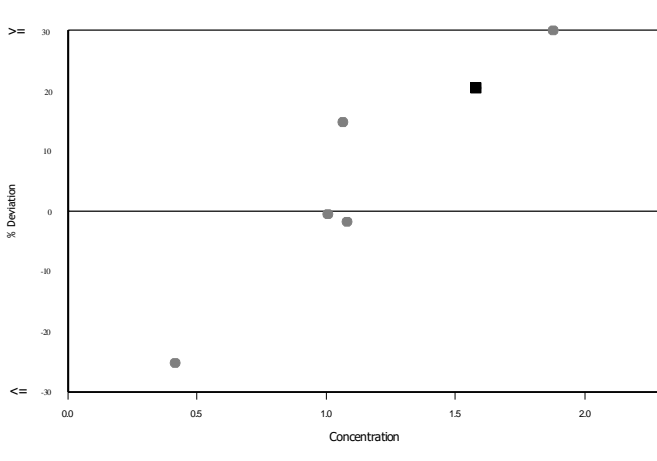
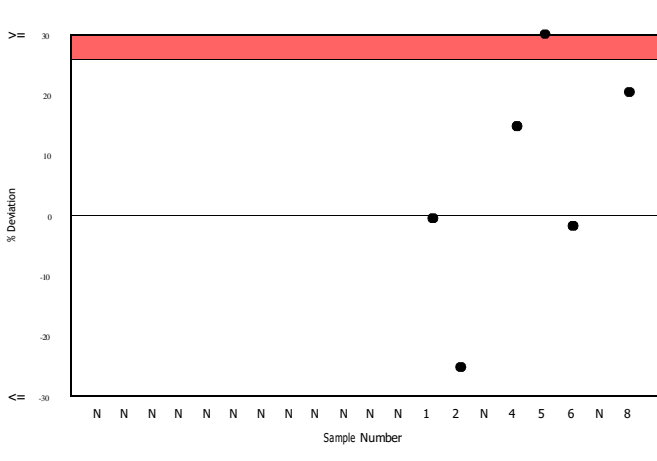
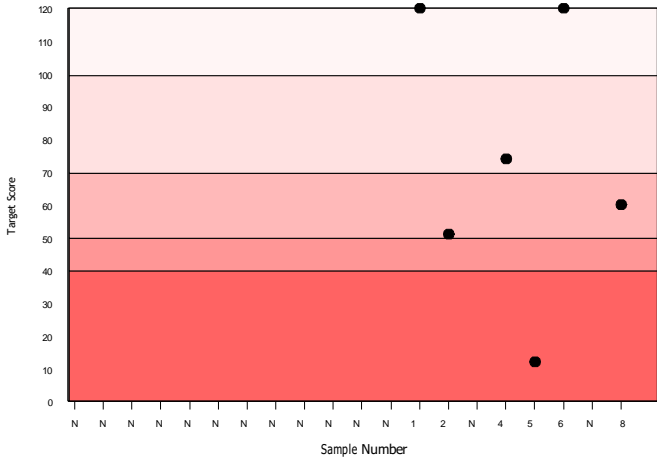
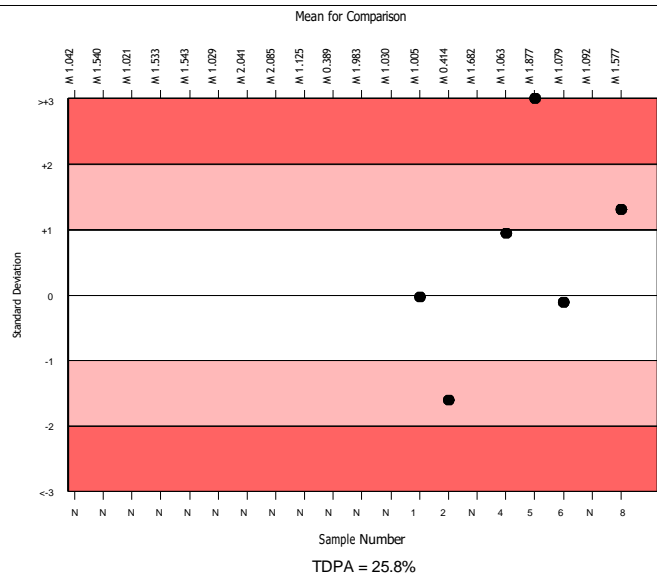
ABC

Bilirubin, Direct, mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5161	1.539	17.1	0.00	0.24	410
Diazo with Sulphanilic Acid	1869	1.577	16.5	0.01	0.25	170
Tulip Coralyzer 200	2	1.800	7.9	0.12	0.31a	0

▲ Your Result	1.900	SDI	1.30
		RMSDI	Too Few
■ Mean for Comparison	1.577	TS	60
		RMTS	Too Few
		%DEV	20.4
		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	1869	1.577	16.5	0.01
Dichlorophenyl Diazonium	1460	1.481	14.3	0.01
Diazo with Dichloroaniline	503	1.655	10.9	0.01
Roche DPD JG standardised	346	1.671	5.8	0.01
Oxidation to Biliverdin/Vanadate	329	1.766	10.3	0.01
Diazo/ Sulphanilic Siemens Dimension	260	1.015	6.1	0.00
Roche DPD Dumas standardised	172	1.545	11.1	0.02
Diazo/Sulphanilic Beckman DxC	97	1.242	11.6	0.02
Agappe - DIAZO	55	0.923	19.5	0.03
Other Dry Chemistry	36	2.194	14.9	0.07
Roche (US calibrator only)	4	1.589	7.5	0.07

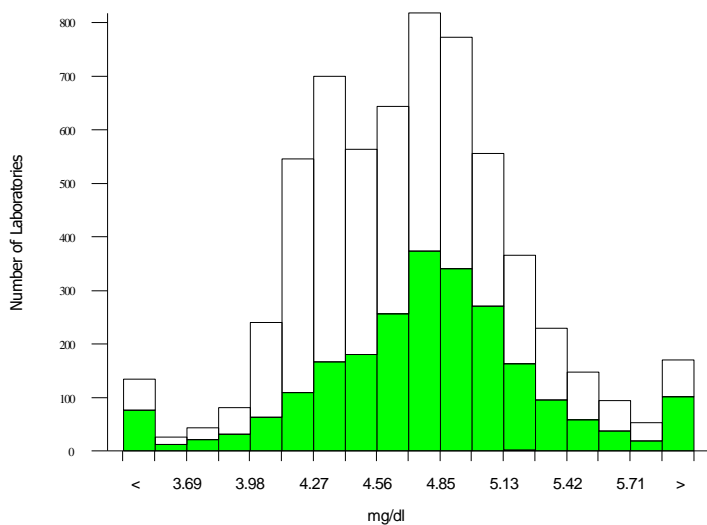
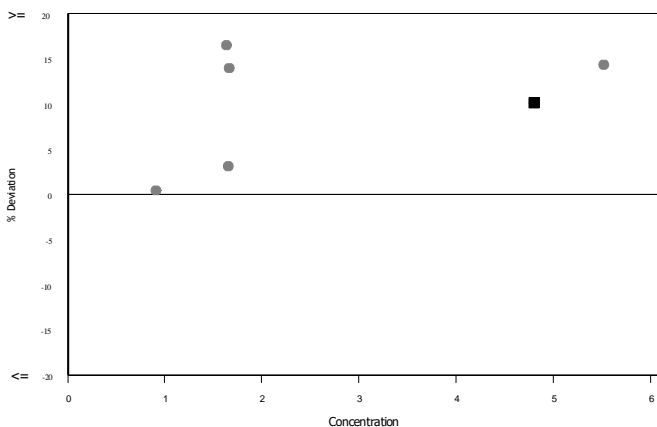
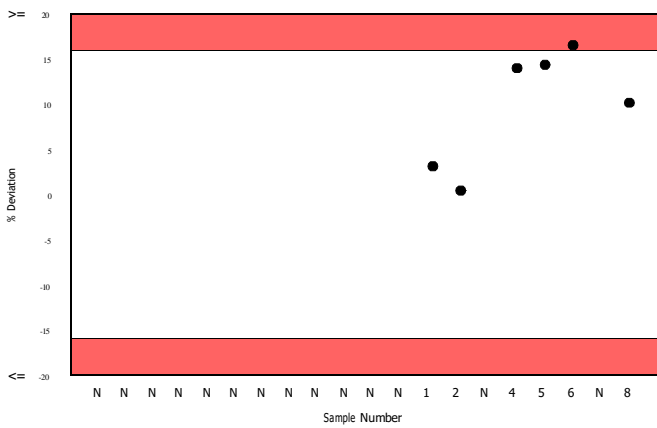
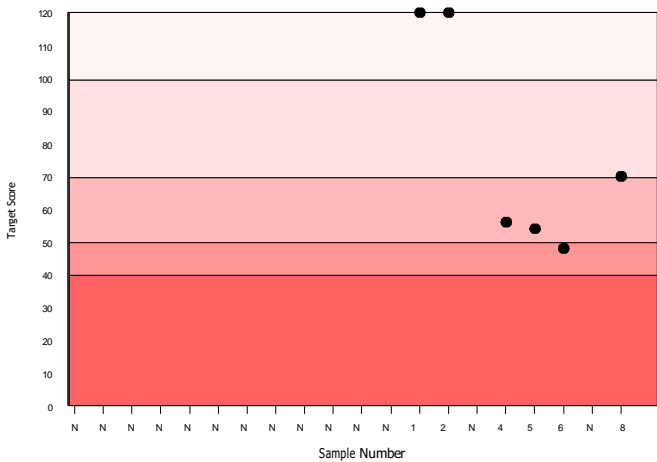
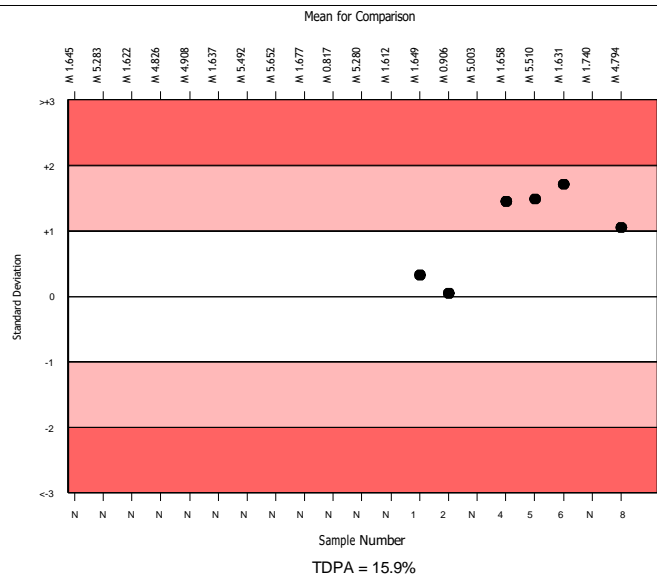
A ABC

Bilirubin, Total, mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5725	4.707	8.2	0.01	0.46	454
Diazo with Sulphanilic Acid	2163	4.794	7.9	0.01	0.46	208
Tulip Coralyzer 200	2	5.240	1.1	0.05	0.51	0

▲ Your Result	5.280	SDI	1.05
		RMSDI	Too Few
■ Mean for Comparison	4.794	TS	70
		RMST	Too Few
		%DEV	10.1
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	15.90 %



Method	N	Mean	CV%	U _m
Diazo with Sulphanilic Acid	2163	4.794	7.9	0.01
Dichlorophenyl Diazonium	1244	4.473	6.9	0.01
Diazo with Dichloroaniline	523	4.828	7.0	0.02
DPD (Beckman AU)	512	4.863	3.4	0.01
Diazonium ion	513	4.454	6.3	0.02
Oxidation to Biliverdin/Vanadate	358	5.177	6.5	0.02
Ortho Vitros MicroSlide System Total Bil	206	4.379	6.0	0.02
Agappe - TAB	49	4.657	8.1	0.07
Other Dry Chemistry	41	4.512	5.2	0.05
Nitrobenzenediazonium Salt	27	4.499	6.0	0.06
Agappe - DMSO	12	4.915	12.4	0.22
Vitros DT60/DT60 II Total Bil	5	4.320	5.4	0.13
Direct Spectrophotometry	5	4.605	6.2	0.16
Assel - DMSO	2	5.180	1.4	0.06

A

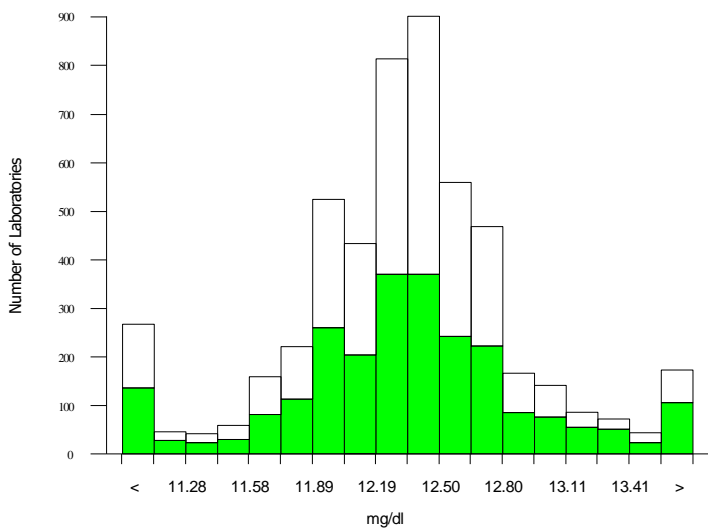
ABC

Calcium, mg/dl

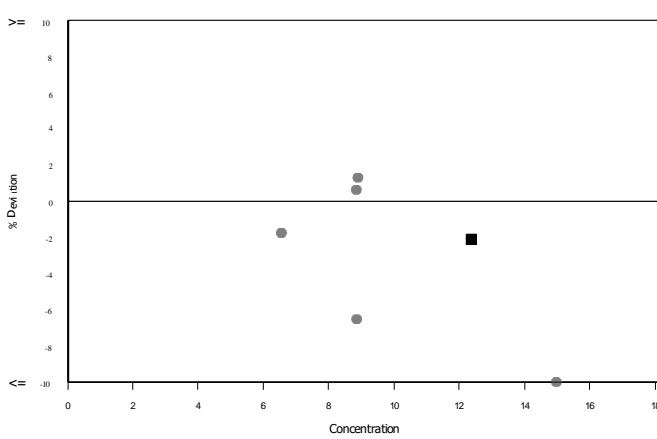
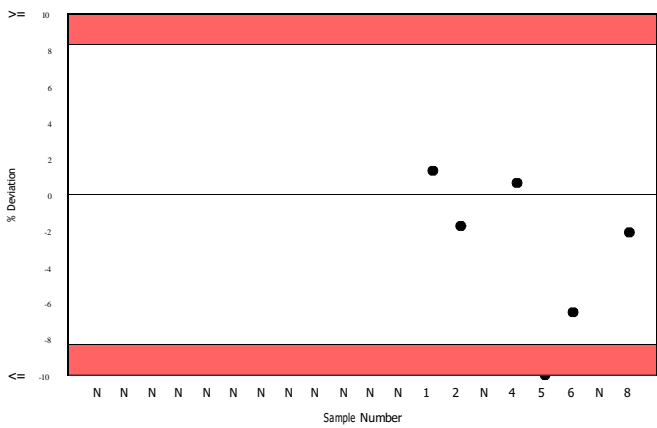
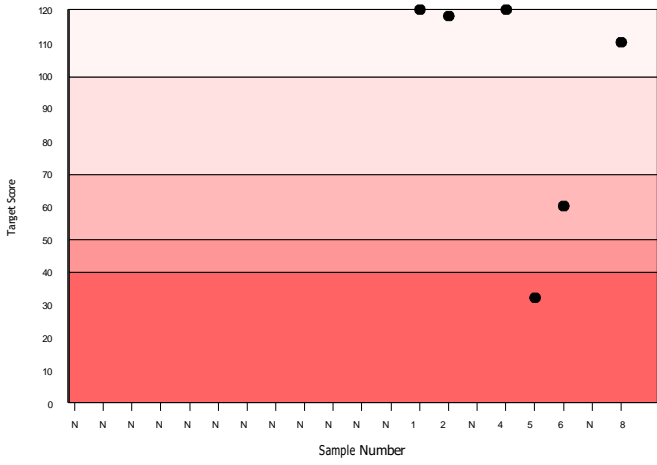
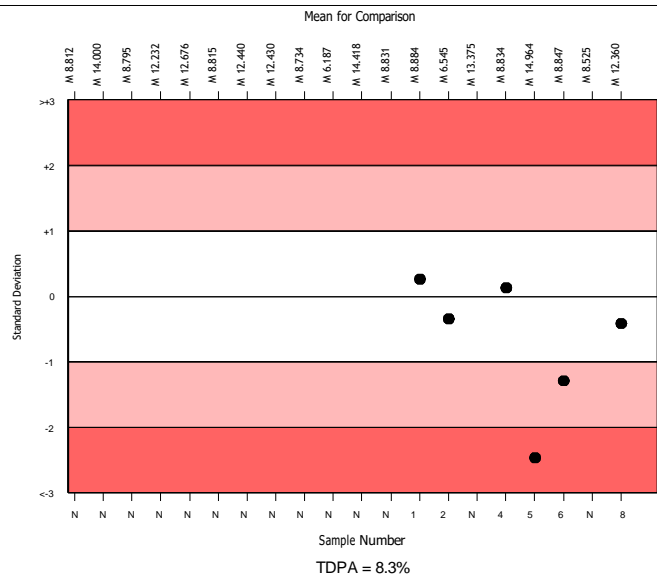
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4720	12.350	3.3	0.01	0.62	454
Arsenazo	2255	12.360	3.7	0.01	0.62	220
Tulip Coralyzer 200	1	12.100	0.0	0.00	N/A	0

▲ Your Result	12.100	SDI	-0.42
		RMSDI	Too Few
■ Mean for Comparison	12.360	TS	110
		RMTS	Too Few
		%DEV	-2.1
		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	2255	12.360	3.7	0.01
Cresolphthalein complexone	1148	12.329	3.1	0.01
NM-BAPTA	875	12.424	2.1	0.01
Ortho Vitros MicroSlide Systems	213	12.085	2.1	0.02
Ion selective electrode	118	12.078	6.5	0.09
Agappe - ARSENAZO	40	12.370	4.2	0.10
Other Dry Chemistry	24	13.004	4.8	0.16
Phosphonazo	24	12.369	6.1	0.19
Methylthymol blue	10	12.281	2.6	0.13
Agappe - OCPC	6	12.243	13.2	0.82
Atomic absorption	3	12.373	3.5	0.31
Vitros DT60/DT60 II/DTSC II	3	12.267	1.9	0.17
Optical Emission Spectroscopy	2	8.120	71.1	5.10



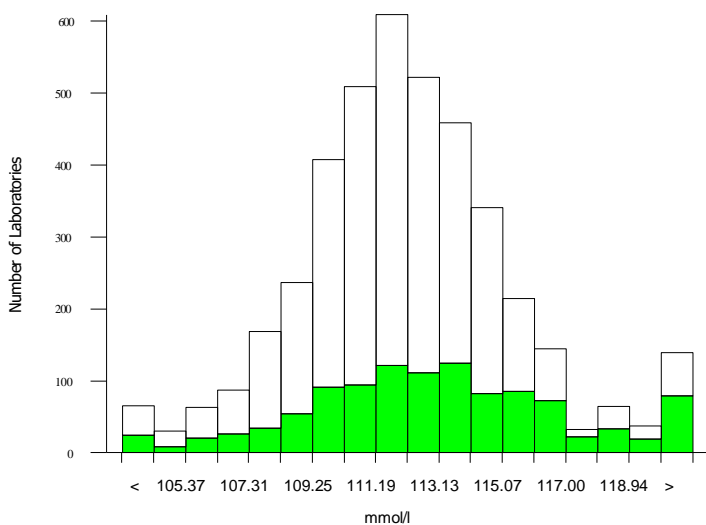
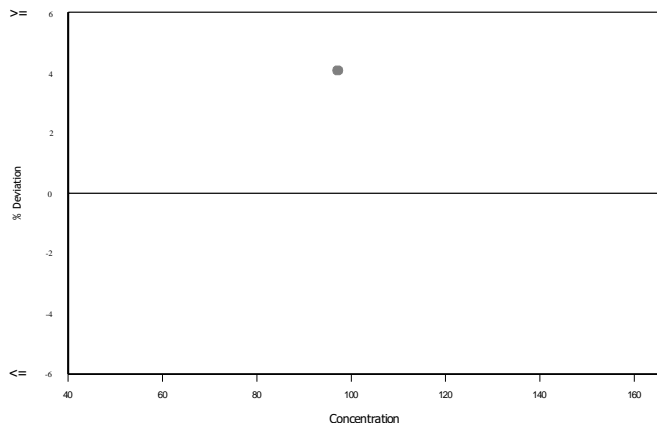
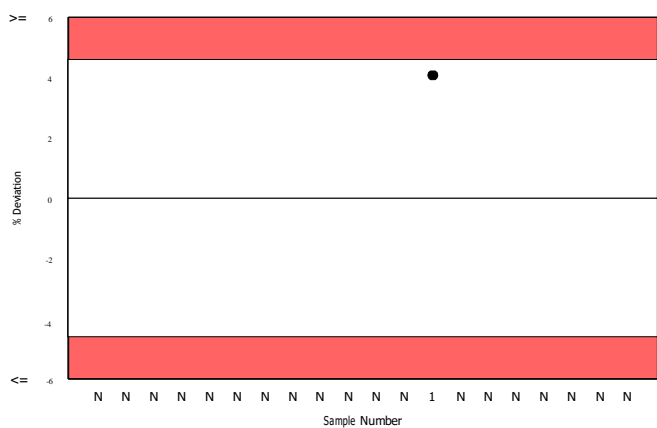
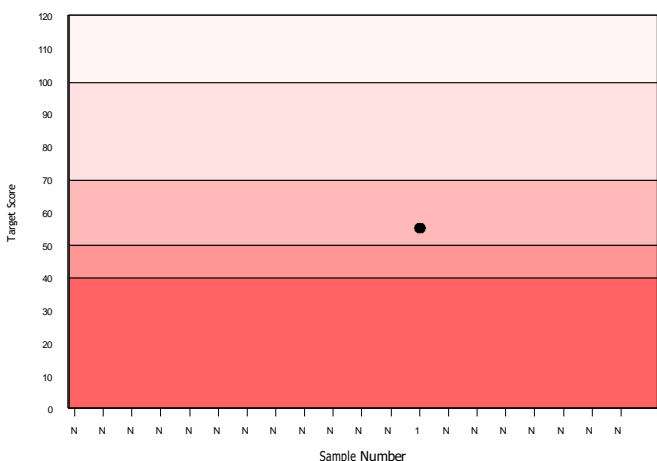
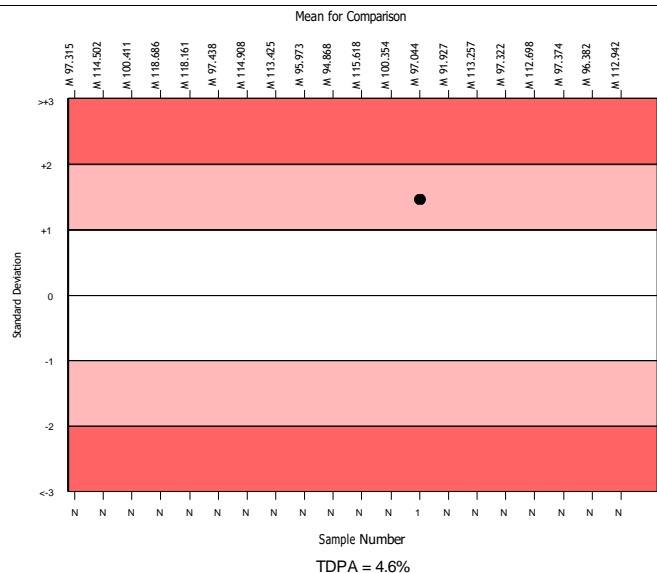
A ABC

Chloride, mmol/l

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3820	112.163	2.3	0.05	3.14	303
ISE, direct	1009	112.942	2.8	0.13	3.16	91
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	RMSDI	Too Few
▲ Mean for Comparison	112.942	TS	RMTS	Too Few
		%DEV	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	2519	111.882	2.0	0.06
ISE, direct	1009	112.942	2.8	0.13
Ortho Vitros MicroSlide Systems	148	113.708	1.9	0.23
Colorimetric	117	111.535	3.3	0.43
Other Dry Chemistry	26	113.135	1.7	0.46
Agappe - THIOCYANATE	7	111.443	4.3	2.27
Optical Fluorescence	6	125.400	5.9	3.80

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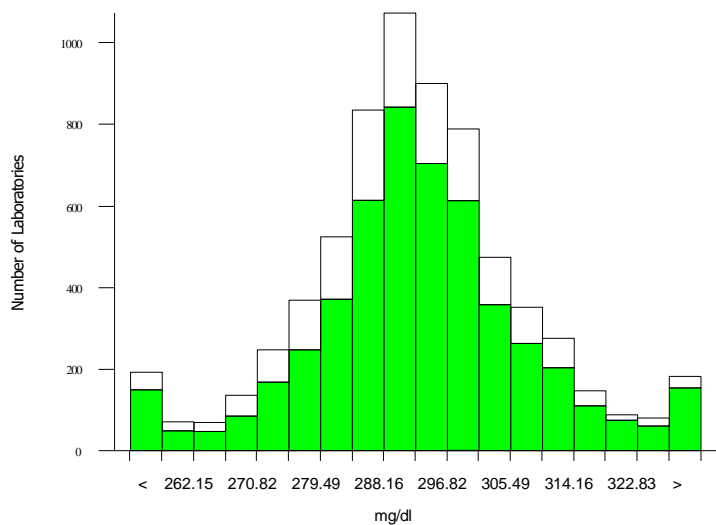
ABC

Cholesterol, mg/dl

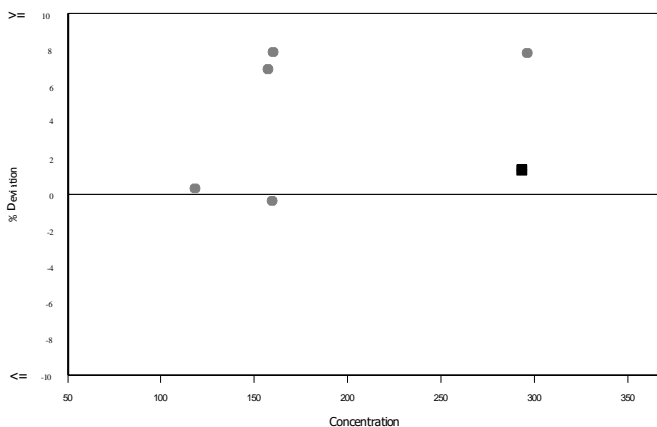
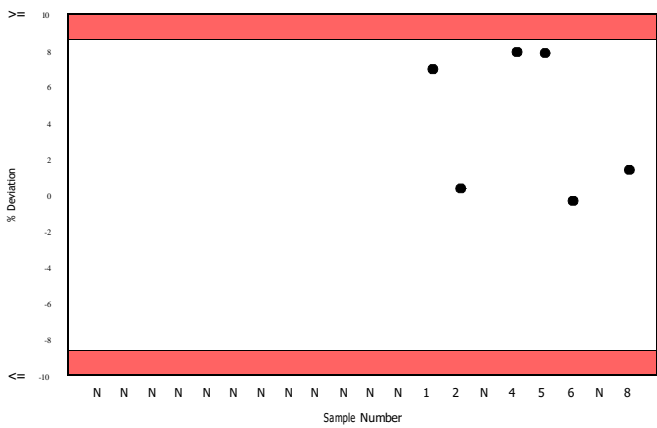
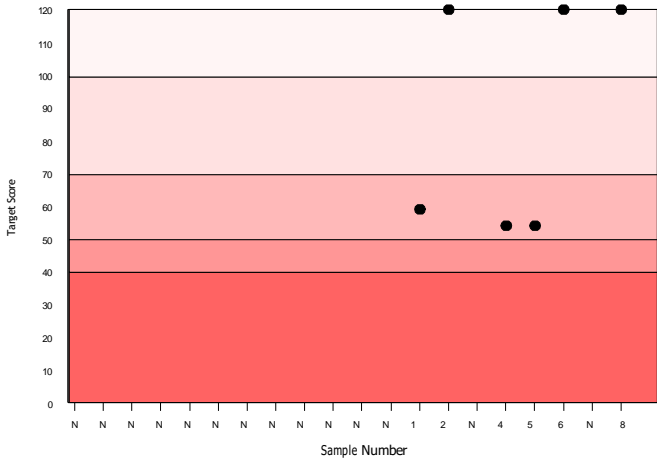
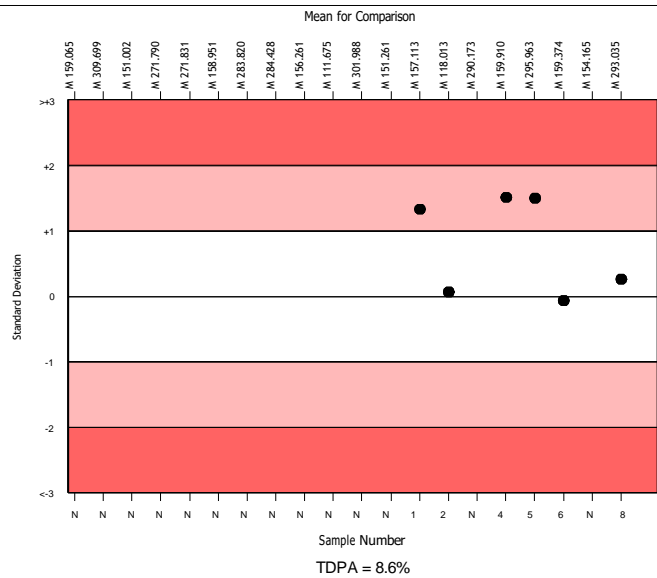
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6271	292.495	4.0	0.18	15.29	531
Cholesterol Oxidase - Abell Kendall	4710	293.035	3.9	0.21	15.32	402
Tulip Coralyzer 200	1	297.000	0.0	0.00	N/A	0

▲ Your Result	297.000	SDI	0.26
		RMSDI	Too Few
■ Mean for Comparison	293.035	TS	120
		RMST	Too Few
		%DEV	1.4
		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	4710	293.035	3.9	0.21
Cholesterol Oxidase - IDMS	814	296.030	3.2	0.42
Siemens Dimension	241	282.886	2.9	0.66
Ortho Vitros MicroSlide Systems	226	280.494	2.7	0.64
Cholesterol Dehydrogenase	133	294.416	3.8	1.22
Agappe - CHOD-PAP	80	295.876	4.8	1.98
Other Dry Chemistry	37	274.823	4.5	2.55
Dimension - non Siemens reagents	4	287.115	6.3	11.39
Vitros DT60/DT60 II/DTSC II	4	272.846	2.0	3.48



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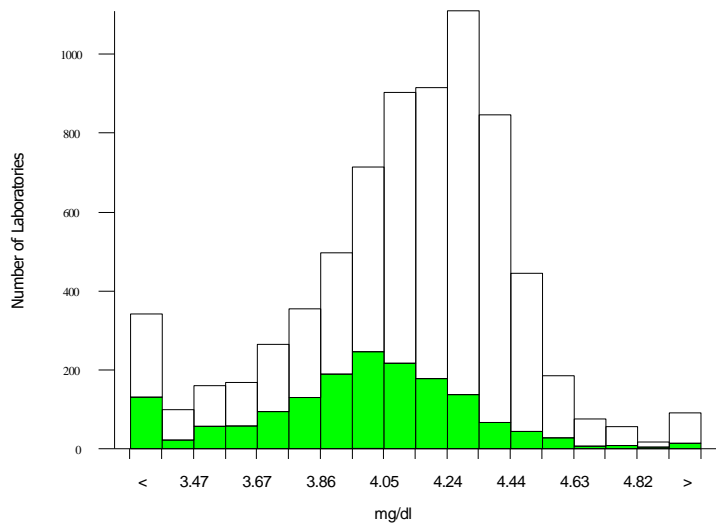
ABC

Creatinine, mg/dl

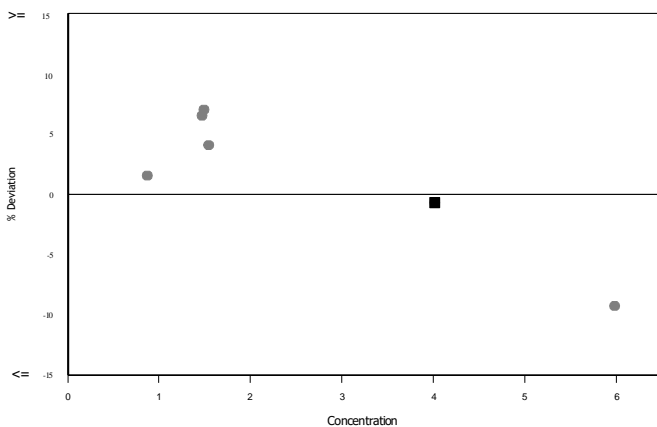
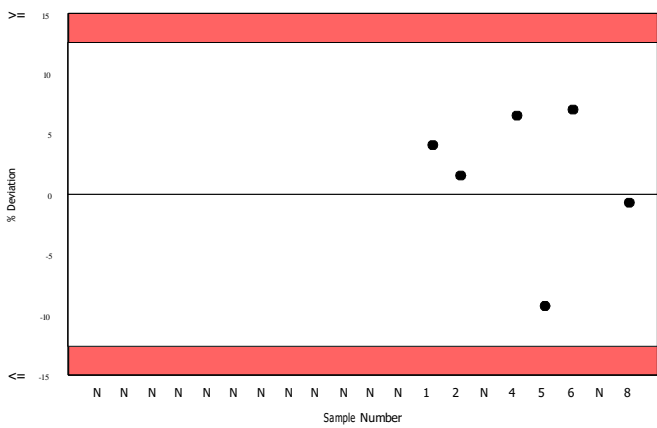
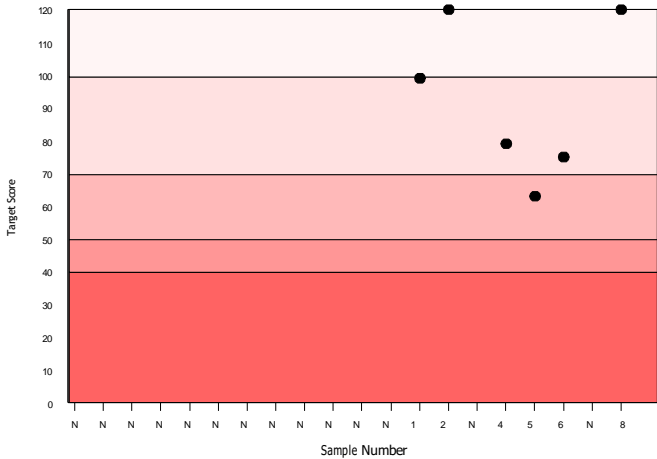
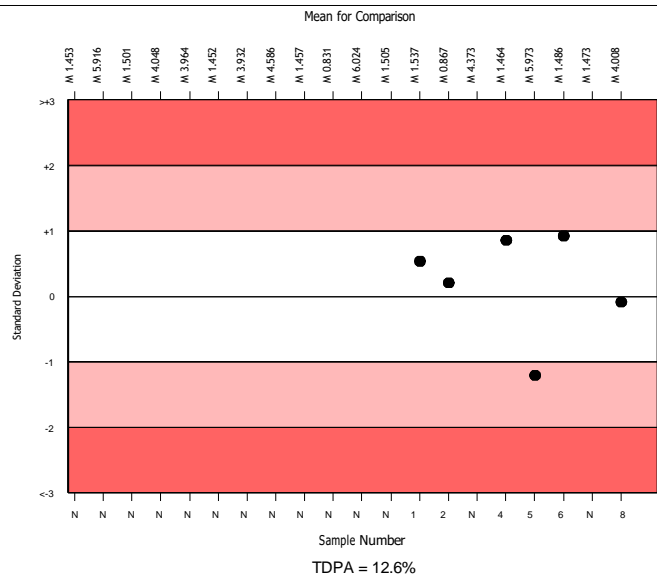
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6656	4.152	6.2	0.00	0.32	581
Jaffe rate blanked	1503	4.008	6.8	0.01	0.31	128
Tulip Coralyzer 200	1	3.980	0.0	0.00	N/A	0

▲ Your Result	3.980	SDI	-0.09
		RMSDI	Too Few
■ Mean for Comparison	4.008	TS	120
		RMST	Too Few
		%DEV	-0.7
		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	1879	4.117	7.6	0.01
Jaffe rate blanked	1503	4.008	6.8	0.01
Jaffe rate blanked comp. (-26umol/l)	759	4.206	3.8	0.01
Jaffe rate comp. (-18umol/l)	371	4.156	4.3	0.01
Enzymatic UV method (340nm)	350	4.272	3.9	0.01
Creatinine PAP method	330	4.260	4.8	0.01
Roche Creatinine Plus	310	4.323	2.6	0.01
IDMS traceable	308	4.207	4.0	0.01
Other enzymatic methods	277	4.331	3.6	0.01
Vitros, IDMS traceable	172	4.332	3.2	0.01
Alkaline picrate with deproteinisation	141	4.086	6.4	0.03
Other Dry Chemistry	68	4.039	6.1	0.04
Jaffe rate blanked comp. (-33umol/l)	61	3.902	9.3	0.06
Agappe - JAFFE'S KINETIC	54	3.704	9.3	0.06
Vitros DT60/DT60 II/DTSC II	27	4.301	3.1	0.03
Agappe - ENZYMATIC	25	3.978	10.6	0.11



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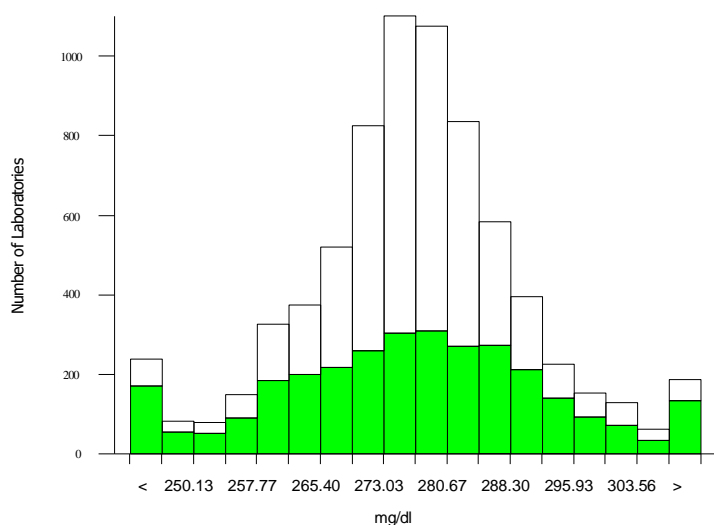
ABC

Glucose, mg/dl

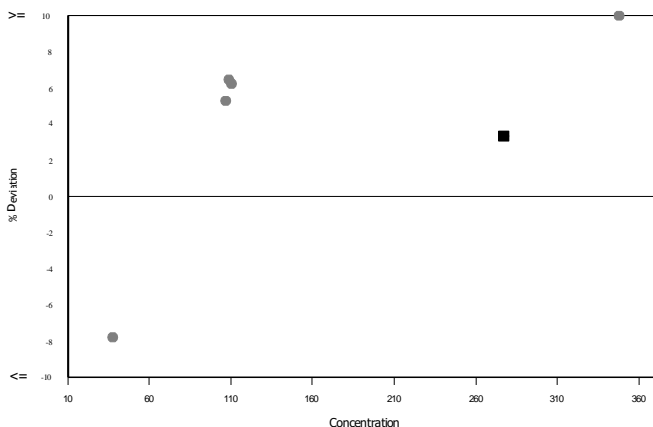
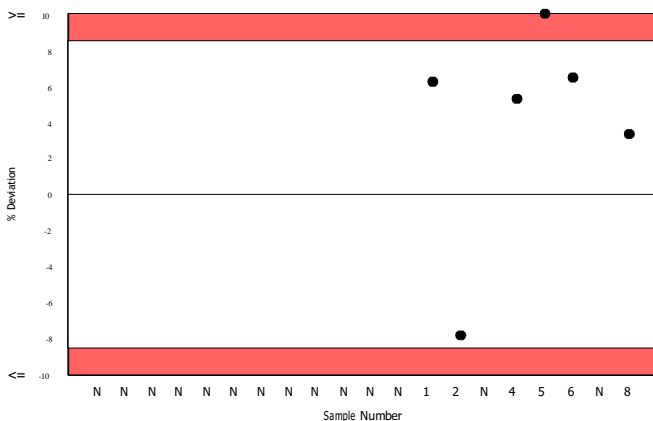
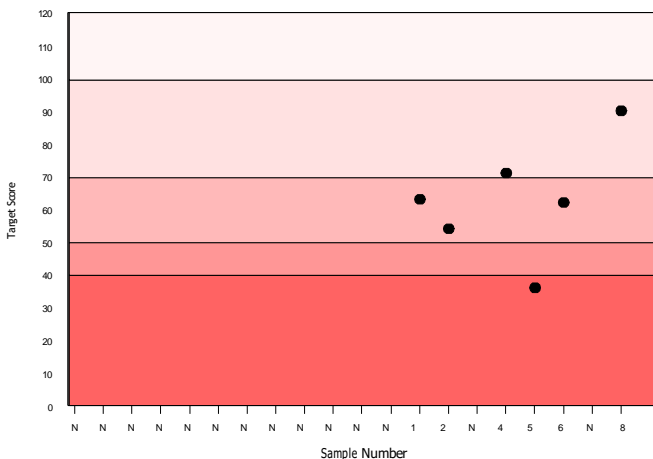
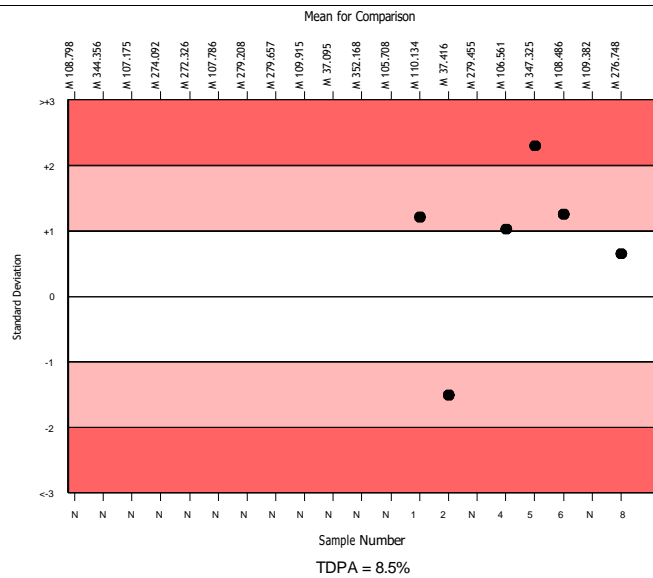
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6735	276.854	3.7	0.15	14.31	601
Glucose oxidase	2801	276.748	4.8	0.31	14.30	268
Tulip Coralyzer 200	2	290.500	2.2	5.62	16.03a	0

▲ Your Result	286.000	SDI	0.65
		RMSDI	Too Few
■ Mean for Comparison	276.748	TS	90
		RMST	Too Few
		%DEV	3.3
		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	3450	277.474	2.5	0.15
Glucose oxidase	2801	276.748	4.8	0.31
Ortho Vitros MicroSlide Systems	233	262.936	2.4	0.52
Agappe - GOD-PAP	76	281.872	4.4	1.76
Glucose dehydrogenase	67	278.294	5.0	2.10
Other Dry Chemistry	36	266.058	2.4	1.31
GOD/02-Beckman method	33	279.890	3.8	2.32
Oxygen electrode	11	273.734	1.4	1.48
Vitros, DT60/DT60 II	5	281.864	4.3	6.75



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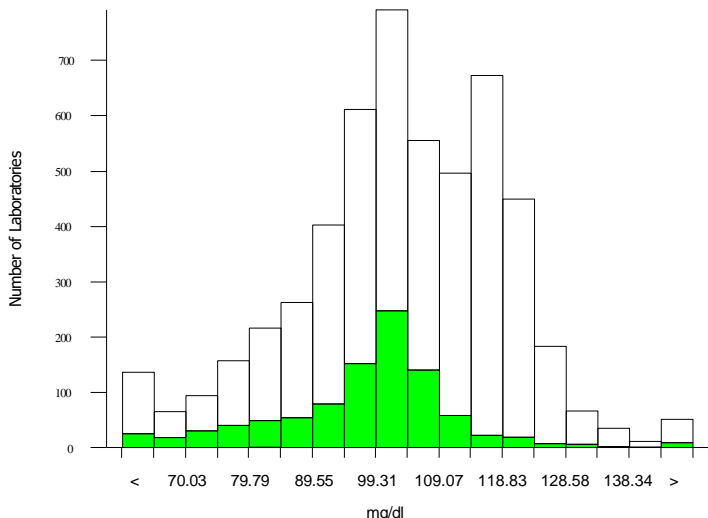
ABC

HDL-Cholesterol, mg/dl

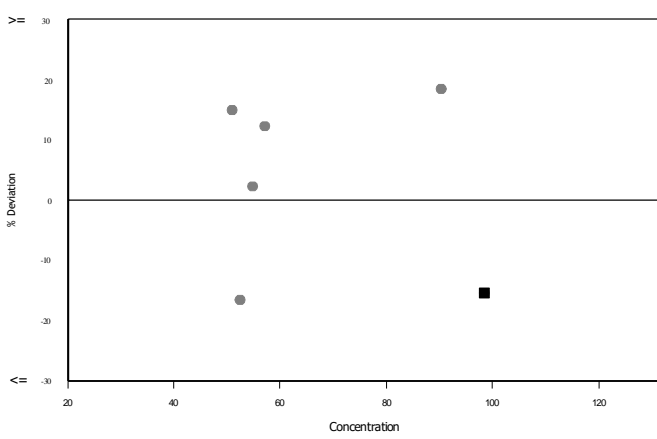
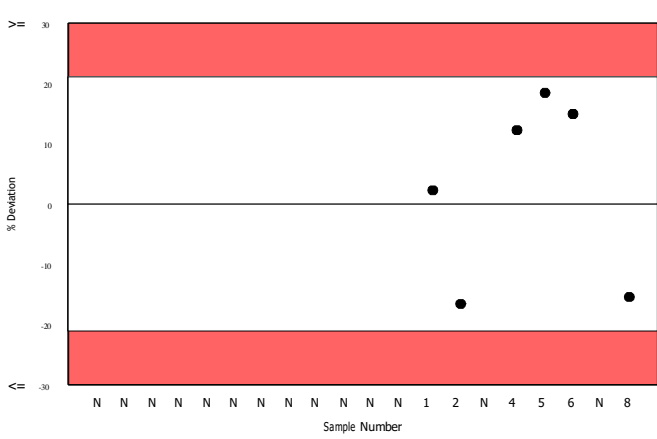
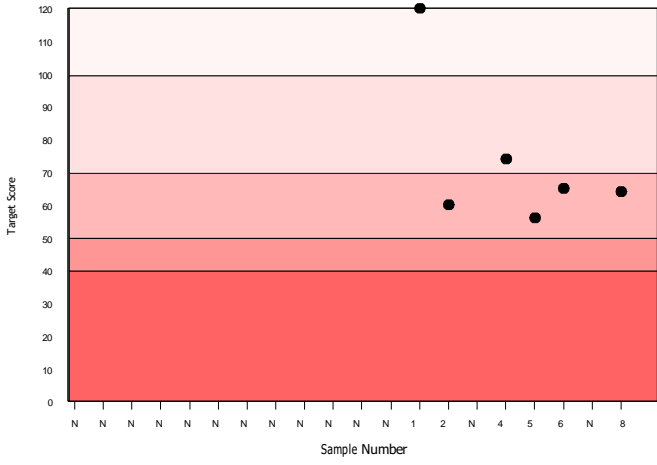
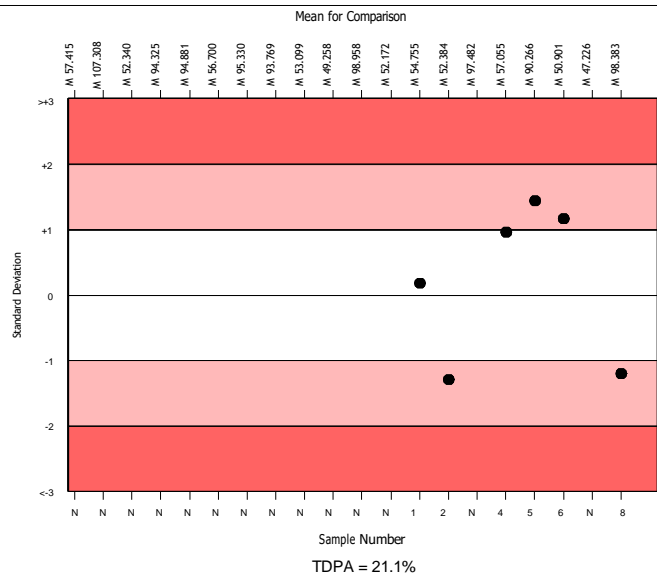
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4916	104.192	12.5	0.23	13.37	346
Direct HDL, Immunoseparation	881	98.383	10.5	0.43	12.62	78
Tulip Coralyzer 200	1	83.200	0.0	0.00	N/A	0

▲ Your Result	83.200	SDI	-1.20
		RMSDI	Too Few
■ Mean for Comparison	98.383	TS	64
		RMTS	Too Few
		%DEV	-15.4
		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.	1243	117.091	4.6	0.19
Direct HDL, Clearance method	1015	94.783	13.2	0.49
Direct HDL, Immunoseparation	881	98.383	10.5	0.43
HDL Ultra/Accel Selective Detergent	537	101.124	5.9	0.32
Direct HDL, PEGME	506	99.845	18.4	1.02
Direct HDL, PPD	331	103.699	10.2	0.73
Vitros dHDL, PTA/MgCl2 direct precip.	174	97.521	6.4	0.59
Agappe - SELECTIVE INHIBITION	61	112.887	6.3	1.13
Other Dry Chemistry	43	100.645	9.0	1.72
Vitros, Magnetic HDL	24	95.051	4.4	1.08
Vitros 5.1 FS Microtip assay	13	96.700	7.8	2.63



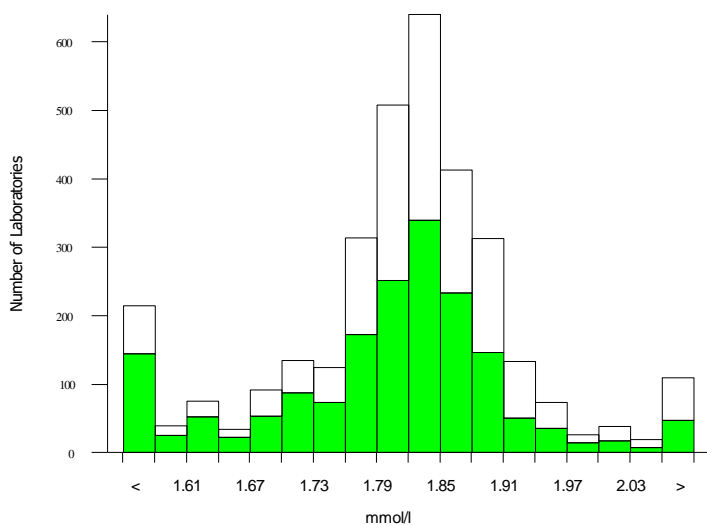
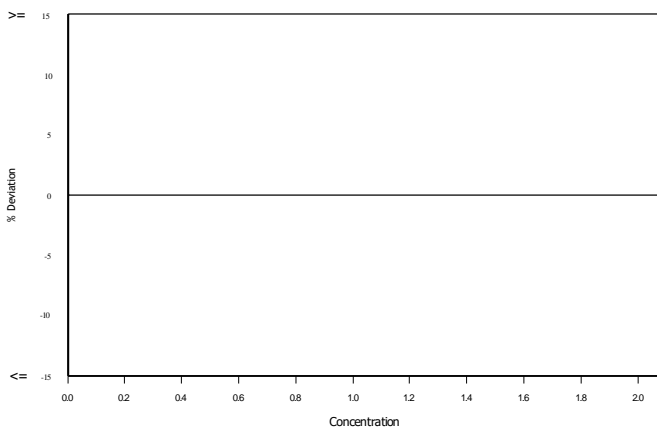
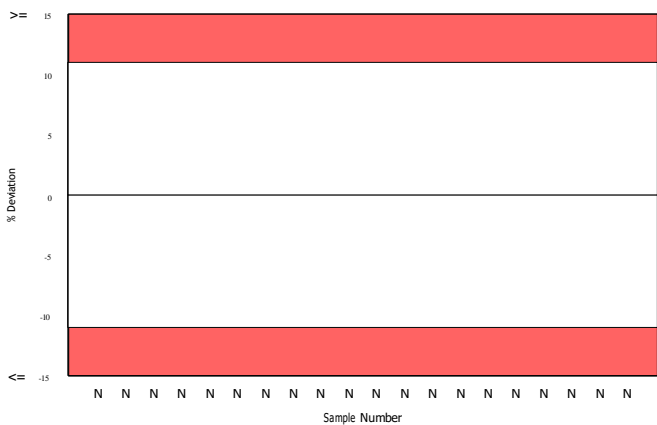
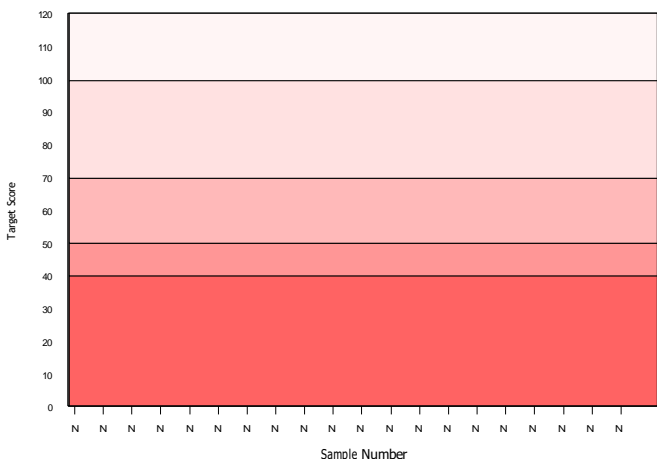
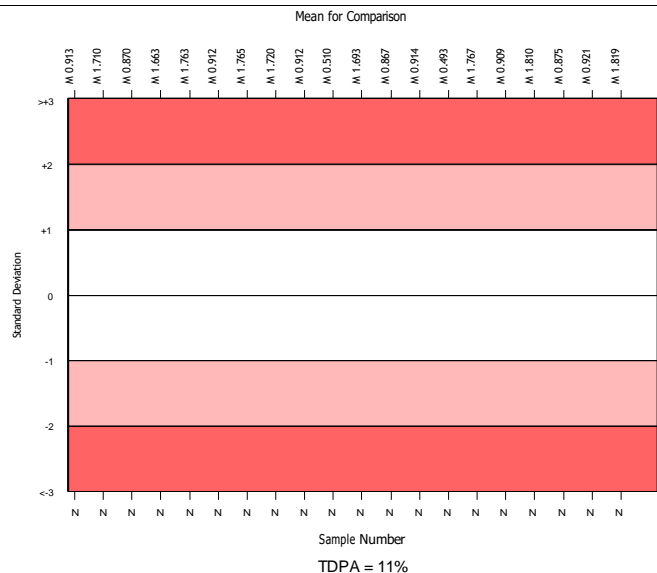
A ABC

Magnesium, mmol/l

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	2979	1.827	4.4	0.00	0.12	316
Xylidyl Blue	1585	1.819	4.5	0.00	0.12	183
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	RMSDI	Too Few
▲ Mean for Comparison	1.819	TS	RMTS	Too Few
		%DEV	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	1585	1.819	4.5	0.00
Enzymatic	338	1.847	3.1	0.00
Chlorphosphonazo III	313	1.831	2.6	0.00
Methylthymol blue	225	1.851	3.6	0.01
Ortho Vitros MicroSlide Systems	176	1.857	3.0	0.01
Calmagite	124	1.748	7.4	0.01
Arsenazo	84	1.824	3.5	0.01
Atomic absorption	52	1.823	2.6	0.01
Agappe - XYLIDYL BLUE	29	1.670	24.4	0.09
Other Dry Chemistry	20	2.036	7.8	0.04
Other magnesium dyes	7	1.747	9.5	0.08

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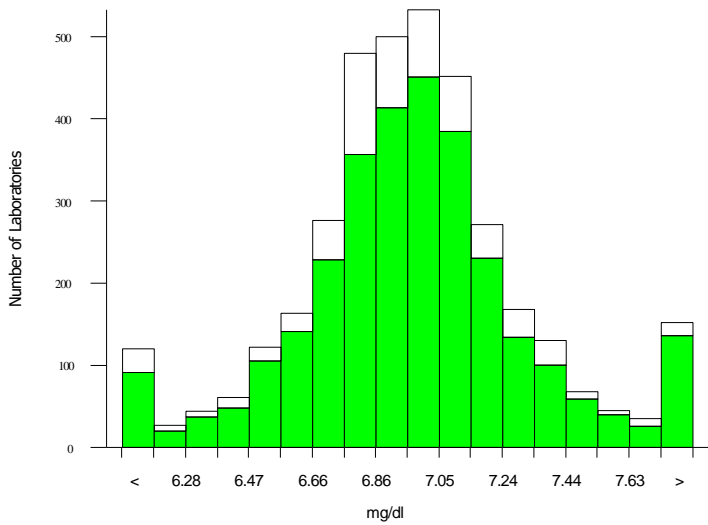
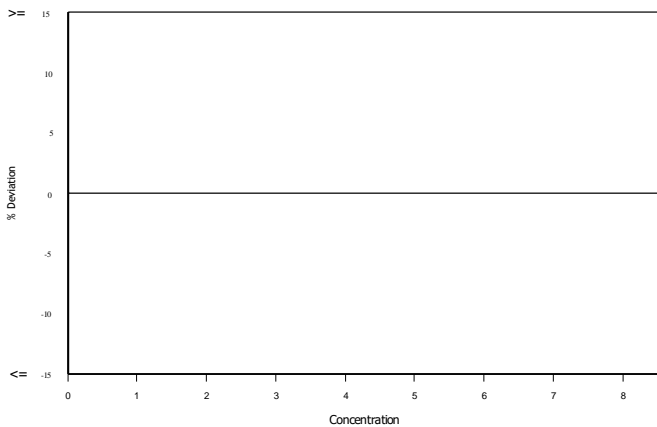
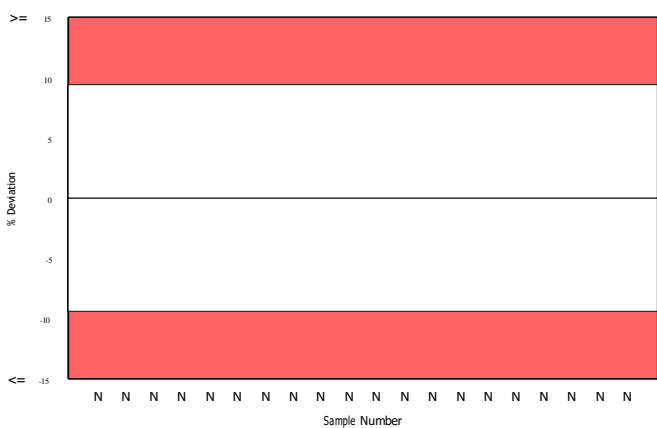
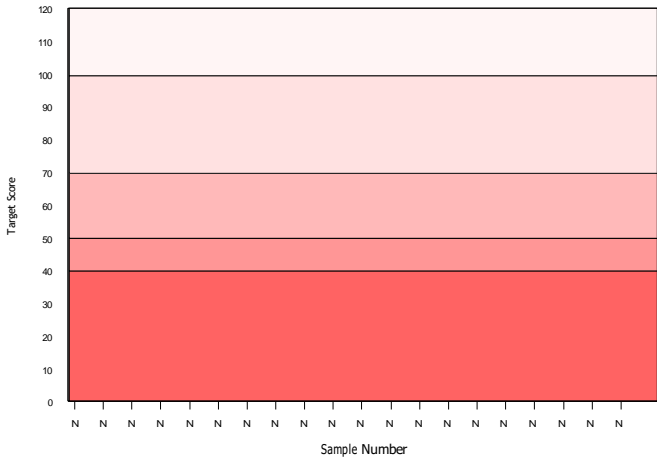
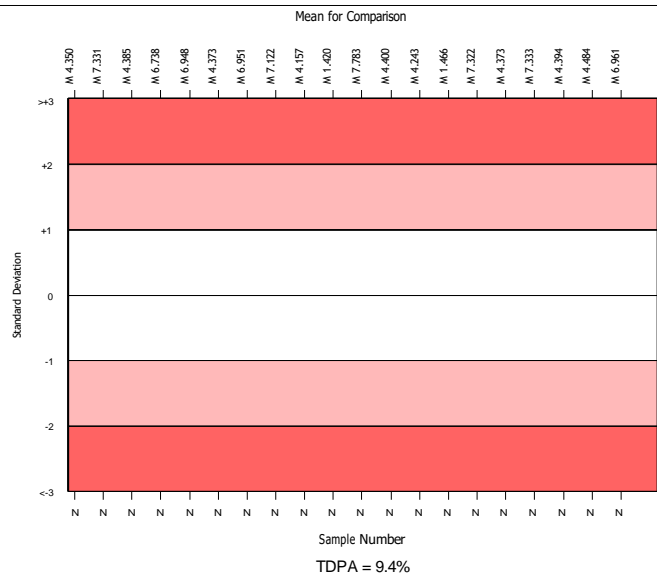
ABC

Phosphate, Inorganic, mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3319	6.959	3.7	0.01	0.40	325
Phosphomolybdate UV	2732	6.961	3.7	0.01	0.40	267
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	RMSDI	Too Few
▲ Mean for Comparison	6.961	TS	RMTS	Too Few
		%DEV	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	2732	6.961	3.7	0.01
Phosphomolybdate enzymatic	294	6.922	3.3	0.02
Ortho Vitros MicroSlide Systems	189	6.928	3.4	0.02
Beckman PHOSm kit (365nm)	43	7.015	3.7	0.05
Agappe - PHOSPHOMOLYBDATE	36	7.158	4.1	0.06
Other Dry Chemistry	12	7.291	7.3	0.19
Other methods, no protein ppt	6	6.987	3.1	0.11
Vitros, DT60/DT60 II/DTSC II	2	7.056	4.9	0.31
Other methods, with protein ppt	2	7.406	1.6	0.11

A

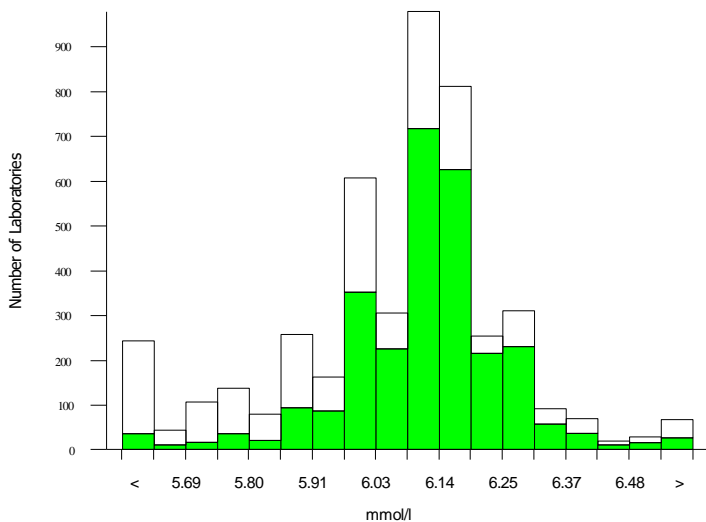
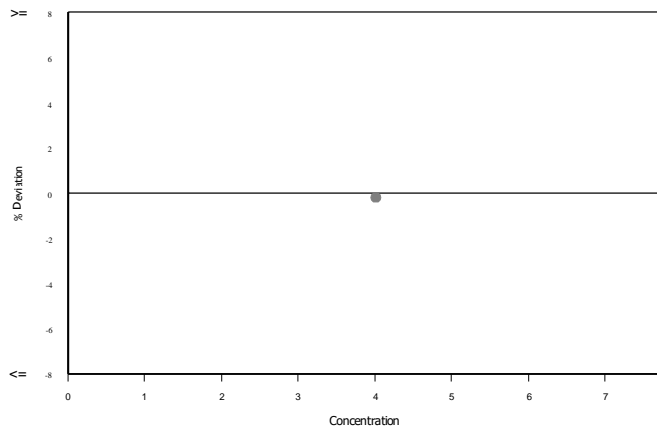
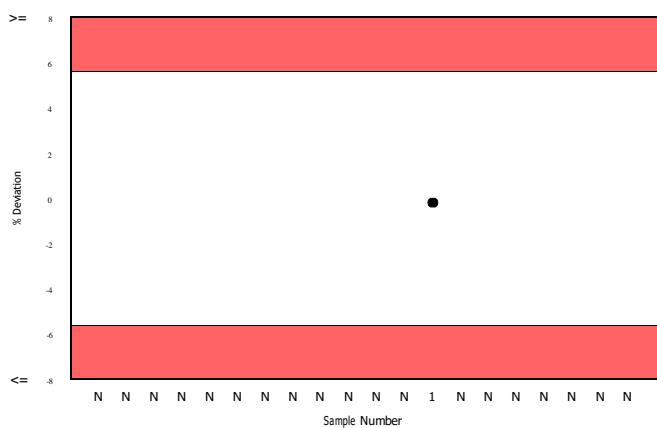
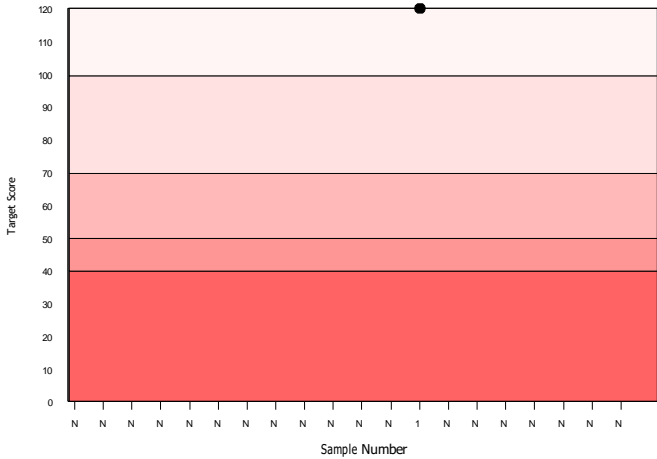
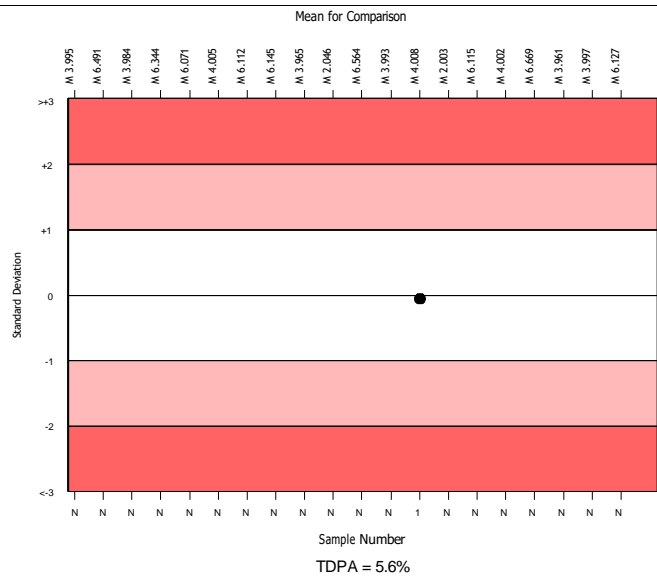
ABC

Potassium, mmol/l

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4217	6.089	2.5	0.00	0.21	350
ISE method - indirect	2616	6.127	1.7	0.00	0.21	186
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	Too Few
		RMSDI	
■ Mean for Comparison	6.127	TS	Too Few
		RMTS	
		%DEV	Too Few
		RM%DEV	

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	2616	6.127	1.7	0.00
ISE method - direct	1304	5.997	3.6	0.01
Ortho Vitros MicroSlide Systems	176	6.058	1.9	0.01
Colorimetric	56	5.722	5.3	0.05
Other Dry Chemistry	23	6.065	1.2	0.02
Agappe - ISE DIRECT	14	6.060	1.5	0.03
Flame photometry	15	5.830	5.5	0.10
Enzymatic	12	6.007	8.6	0.19
Turbidimetric	7	5.823	4.0	0.11
Optical Fluorescence	6	6.183	3.1	0.10
Vitros, DT60/DT60 II/DTE II	5	6.060	3.6	0.12

A

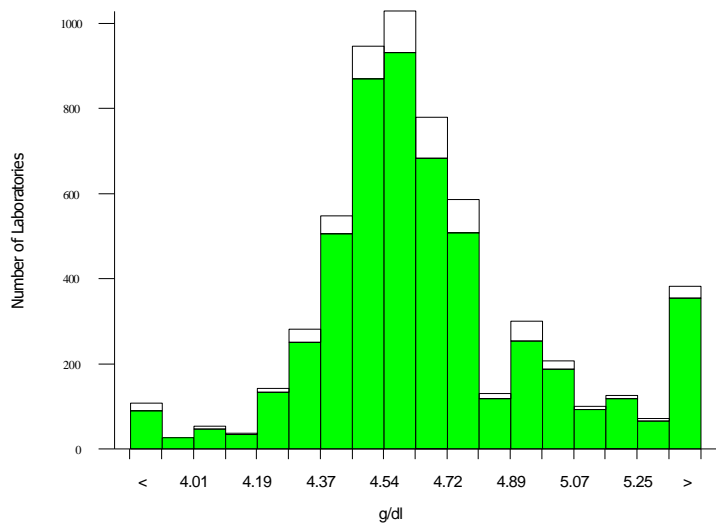
ABC

Protein, Total, g/dl

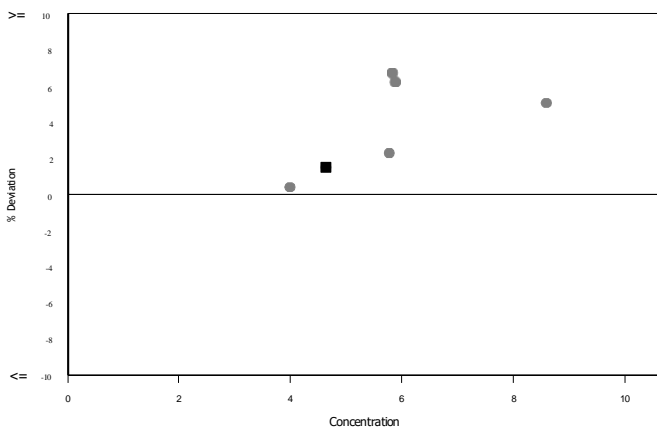
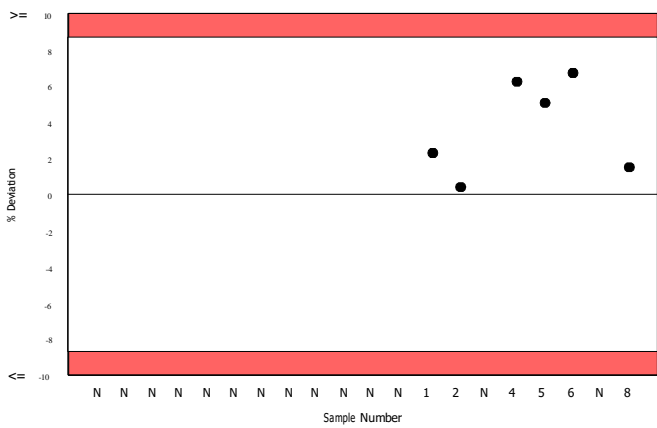
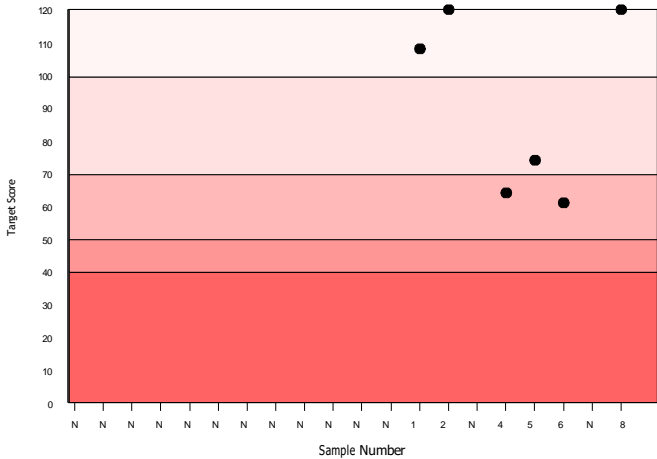
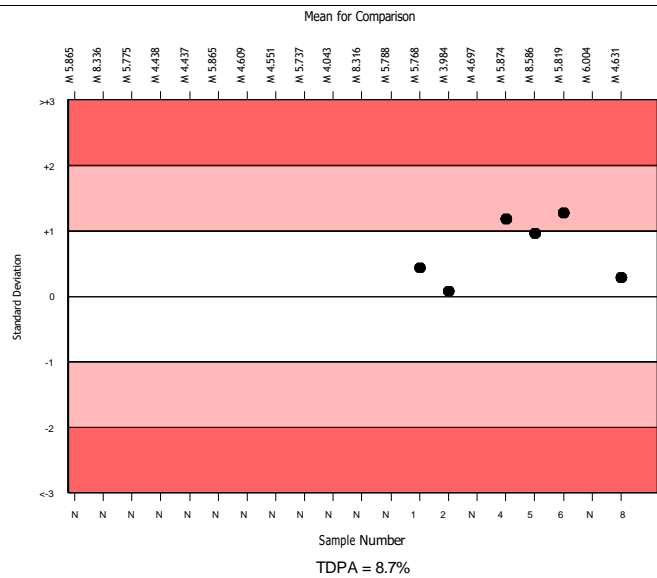
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5334	4.635	5.1	0.00	0.25	514
Biuret reaction, end point	4812	4.631	5.2	0.00	0.24	450
Tulip Coralyzer 200	2	4.950	7.1	0.31	0.41a	0

▲ Your Result	4.700	SDI	0.28
		RMSDI	Too Few
■ Mean for Comparison	4.631	TS	120
		RMST	Too Few
		%DEV	1.5
		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	4812	4.631	5.2	0.00
Ortho Vitros MicroSlide Systems	219	4.694	3.3	0.01
Biuret reaction, kinetic	162	4.534	3.8	0.02
Agappe - BIURET	59	4.898	6.2	0.05
Biuret reaction, CX4/5/7	40	4.483	2.9	0.03
Other Dry Chemistry	38	4.768	2.9	0.03
Vitros, DT60/DT60 II	3	4.880	0.7	0.02
Refractometry	2	4.553	3.7	0.15



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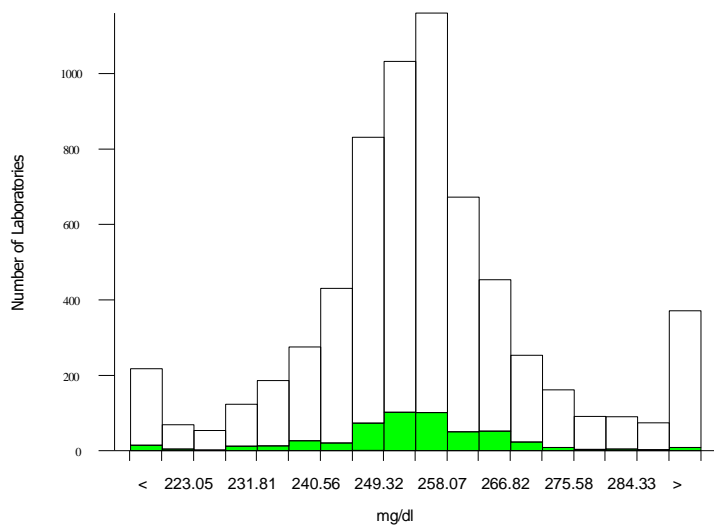
ABC

Trig Total, mg/dl

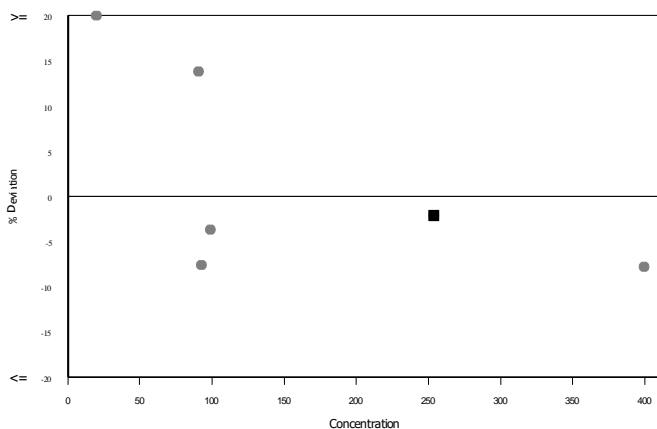
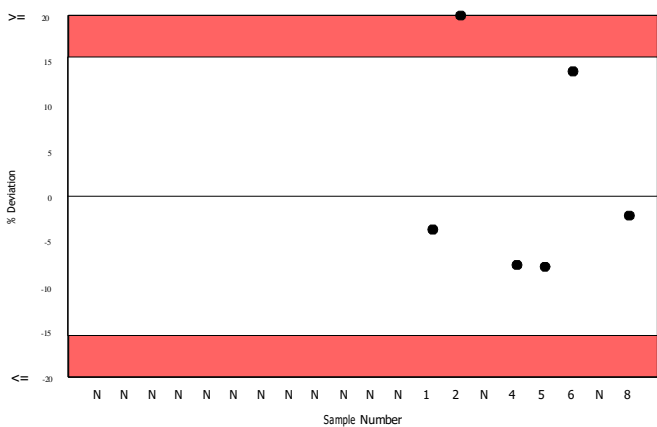
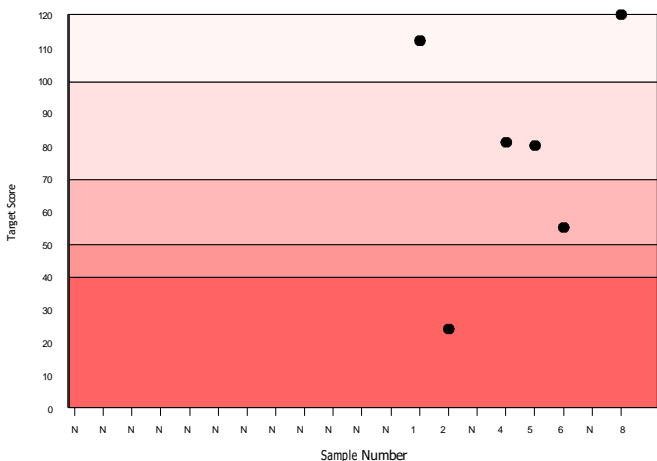
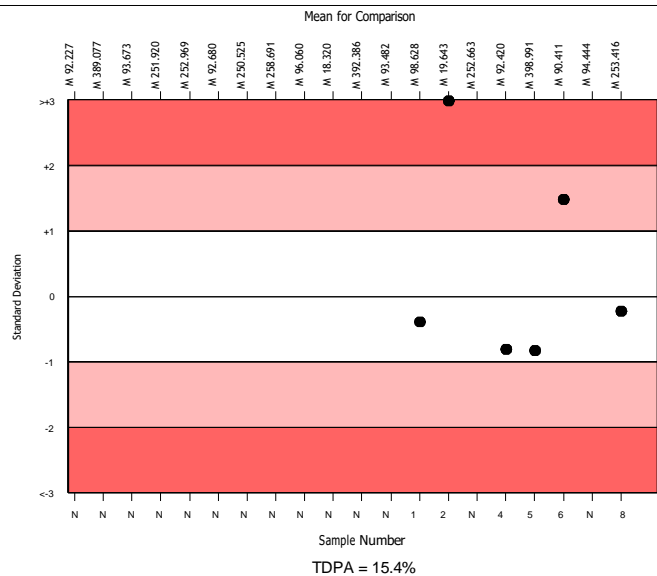
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5928	253.697	4.6	0.19	23.75	613
Lipase/GK UV. no correction	487	253.416	3.7	0.53	23.73	40
Tulip Coralyzer 200	1	248.000	0.0	0.00	N/A	0

▲ Your Result	248.000	SDI	-0.23
		RMSDI	Too Few
■ Mean for Comparison	253.416	TS	120
		RMST	Too Few
		%DEV	-2.1
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	15.40 %



Method	N	Mean	CV%	U _m
Lipase/GPO-PAP no correction	4373	253.041	4.1	0.19
Lipase/GK UV. no correction	487	253.416	3.7	0.53
Lipase/Glycerol Dehydrogenase	341	254.023	3.9	0.67
Lipase/GPO-PAP, 0.11 mmol/l correction	281	253.215	4.3	0.81
Ortho Vitros MicroSlide Systems	221	292.112	3.0	0.74
Lipase/GK UV., 0.11 mmol/l correction	87	254.486	4.0	1.35
Agappe - GPO - TOPS	74	248.478	6.1	2.19
Siemens Dimension	66	252.787	2.8	1.08
Other Dry Chemistry	31	316.448	6.4	4.54
Vitros DT60/DT60 II/DTSC II	4	292.730	1.9	3.50



A

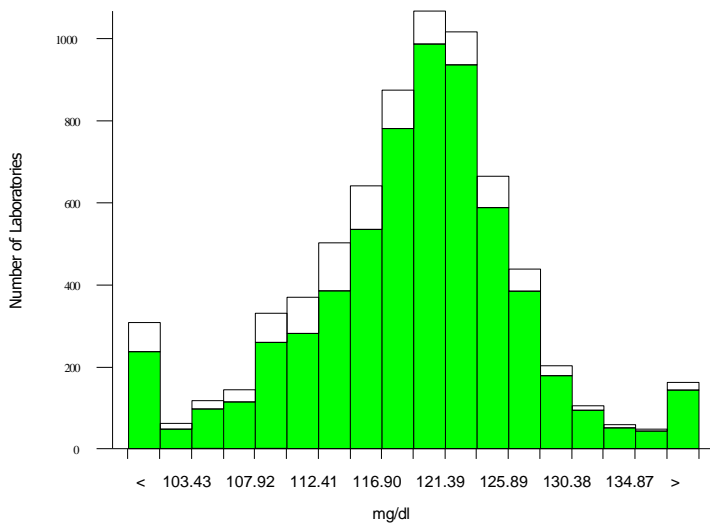
ABC

Urea, mg/dl

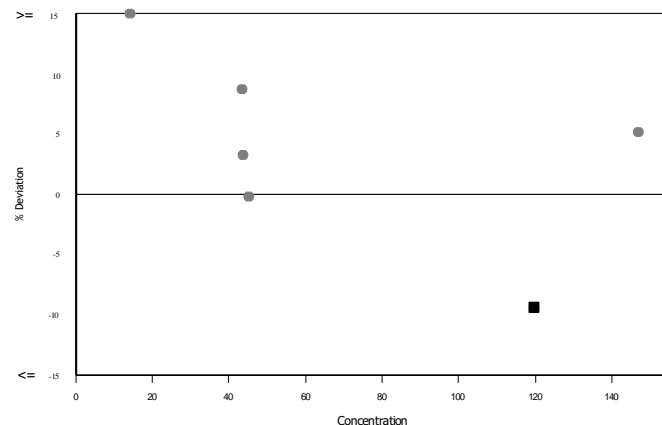
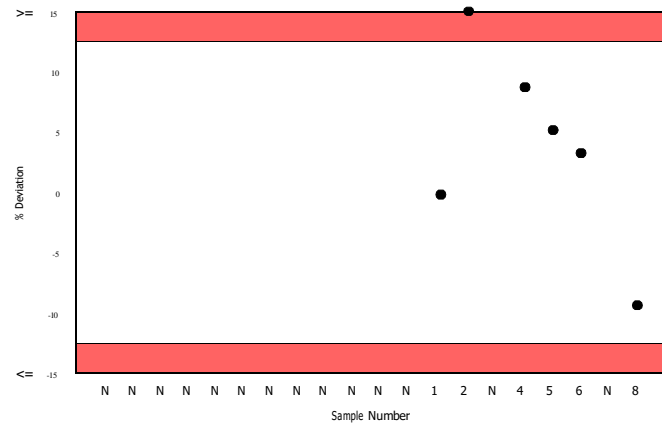
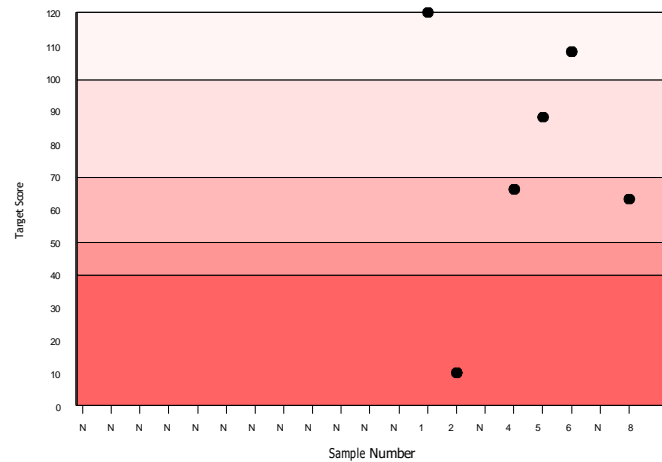
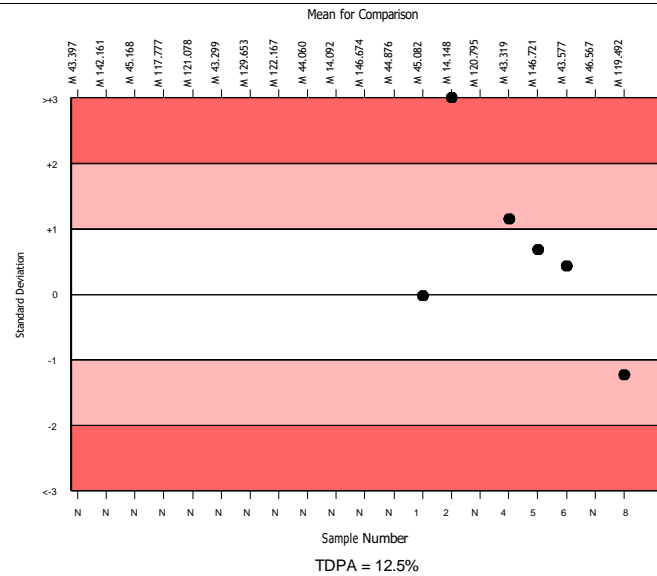
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6529	119.153	5.0	0.09	9.05	584
Urease, kinetic	5630	119.492	4.8	0.10	9.08	512
Tulip Coralyzer 200	2	106.650	2.2	2.06	8.10	0

▲ Your Result	108.300	SDI RMSDI	-1.23 Too Few
■ Mean for Comparison	119.492	TS RMTS	63 Too Few
		%DEV RM%DEV	-9.4 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	5630	119.492	4.8	0.10
Urease, end point	385	119.516	5.1	0.39
Ortho Vitros MicroSlide Systems	226	112.513	3.2	0.30
Urease, hypochlorite	97	114.064	6.2	0.90
Agappe - UREASE GLDH	61	114.791	7.6	1.40
Other Dry Chemistry	43	124.445	3.2	0.75
Beckman - Conductivity	30	118.749	3.8	1.04
Agappe - BERTHELOT	12	120.003	3.7	1.59
Vitros DT60/DT60 II	6	115.558	4.2	2.50
Diacetyl monoxime	3	111.177	9.3	7.47
O-Phthalaldehyde	4	119.375	3.1	2.28



A

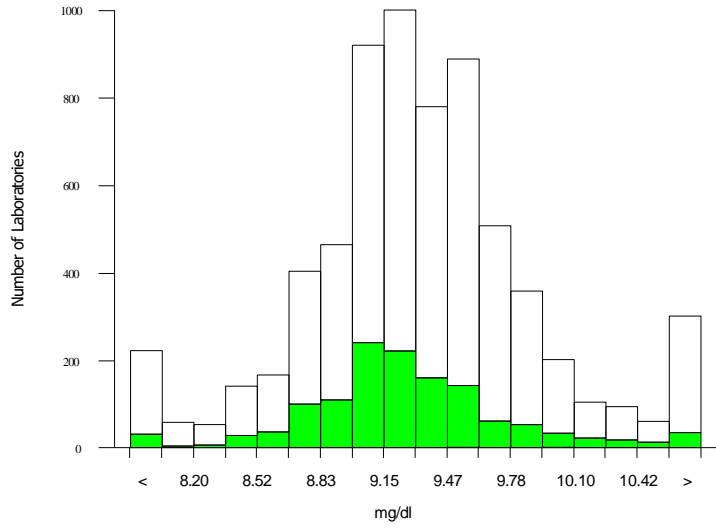
ABC

Uric Acid (Urate), mg/dl

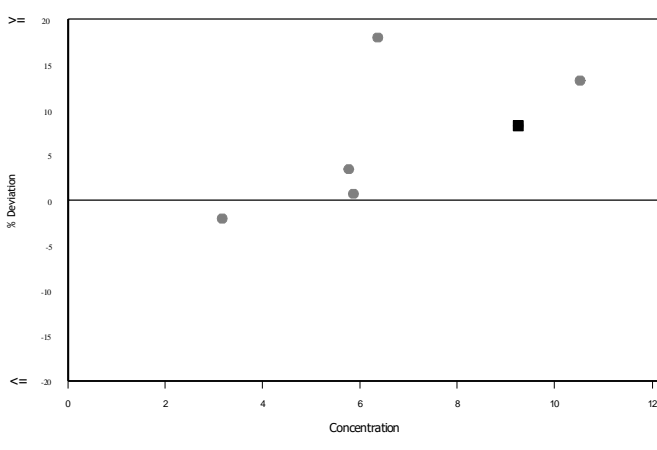
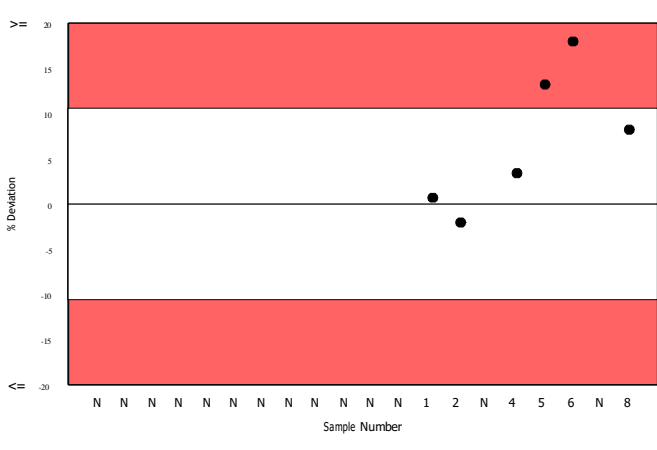
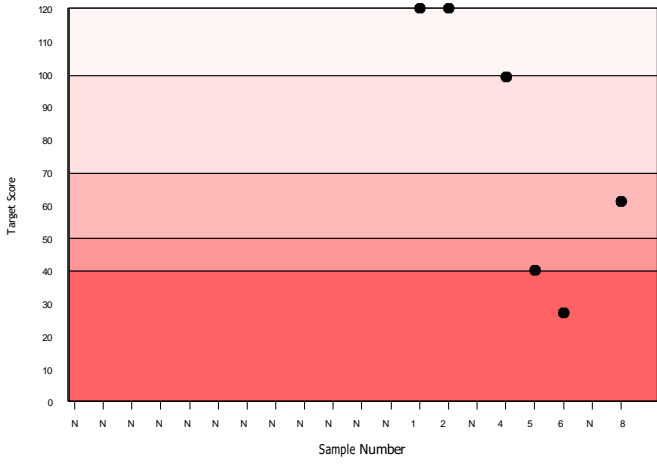
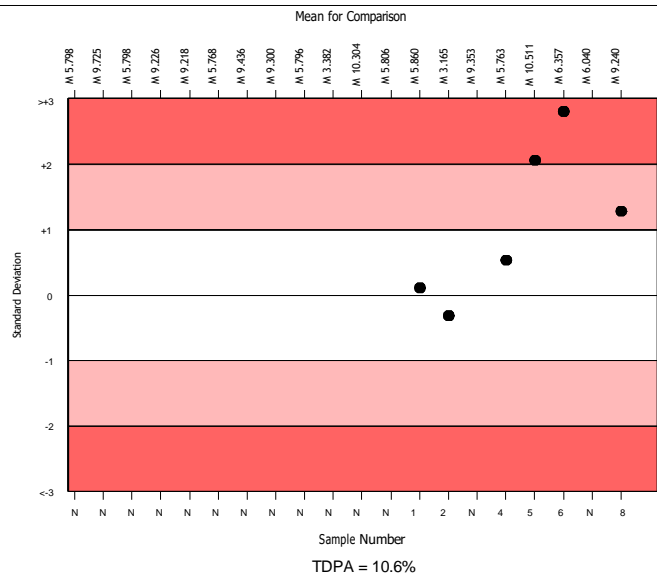
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6136	9.313	4.5	0.01	0.60	586
Uricase Perox. with ascorb. ox @ 546nm	1208	9.240	4.0	0.01	0.59	105
Tulip Coralyzer 200	2	9.750	3.6	0.31	0.70a	0

▲ Your Result	10.000	SDI	1.28
		RMSDI	Too Few
■ Mean for Comparison	9.240	TS	61
		RMTS	Too Few
		%DEV	8.2
		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.	2531	9.316	5.0	0.01
Uricase Perox. with ascorb. ox	1728	9.393	3.9	0.01
Uricase Perox. with ascorb. ox @ 546nm	1208	9.240	4.0	0.01
Ortho Vitros MicroSlide Systems	230	8.816	2.5	0.02
Uricase @ 293 nm	188	9.258	2.1	0.02
Uricase, catalase 340nm.	105	9.268	2.5	0.03
Agappe - URICASE - PAP	44	9.924	4.7	0.09
Agappe - URICASE - TOPS	24	9.344	8.2	0.19
Other Dry Chemistry	23	10.114	2.2	0.06
Reduction methods	12	9.563	3.0	0.11
Vitros DT60/DT60 II	6	9.395	9.0	0.43



A ABC

Analyte	Mean for Comparison	Your Result	SDI	RMSDI	%DEV	RM%DEV	TS	RMTS	Performance
Albumin	2.968	3.050	0.51	Too Few	2.8	Too Few	101	Too Few	
Alkaline Phosphatase	354.034	368.000	0.35	Too Few	3.9	Too Few	117	Too Few	
ALT (GPT)	149.348	155.000	0.41	Too Few	3.8	Too Few	110	Too Few	
AST (GOT)	154.253	152.000	-0.16	Too Few	-1.5	Too Few	120	Too Few	
Bilirubin, Direct	1.577	1.900	1.30	Too Few	20.4	Too Few	60	Too Few	
Bilirubin, Total	4.794	5.280	1.05	Too Few	10.1	Too Few	70	Too Few	
Calcium	12.360	12.100	-0.42	Too Few	-2.1	Too Few	110	Too Few	
Chloride	112.942	No Result		Too Few		Too Few		Too Few	
Cholesterol	293.035	297.000	0.26	Too Few	1.4	Too Few	120	Too Few	
Creatinine	4.008	3.980	-0.09	Too Few	-0.7	Too Few	120	Too Few	
Glucose	276.748	286.000	0.65	Too Few	3.3	Too Few	90	Too Few	
HDL-Cholesterol	98.383	83.200	-1.20	Too Few	-15.4	Too Few	64	Too Few	
Magnesium	1.819	No Result		Too Few		Too Few		Too Few	
Phosphate, Inorganic	6.961	No Result		Too Few		Too Few		Too Few	
Potassium	6.127	No Result		Too Few		Too Few		Too Few	
Protein, Total	4.631	4.700	0.28	Too Few	1.5	Too Few	120	Too Few	
Trig Total	253.416	248.000	-0.23	Too Few	-2.1	Too Few	120	Too Few	
Urea	119.492	108.300	-1.23	Too Few	-9.4	Too Few	63	Too Few	
Uric Acid (Urate)	9.240	10.000	1.28	Too Few	8.2	Too Few	61	Too Few	

ORMSDI N/A

ORM%DEV N/A

ORMTS N/A

Unique Wellness Care

MONTHLY CLINICAL CHEMISTRY

CYCLE 19 SAMPLE 9

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

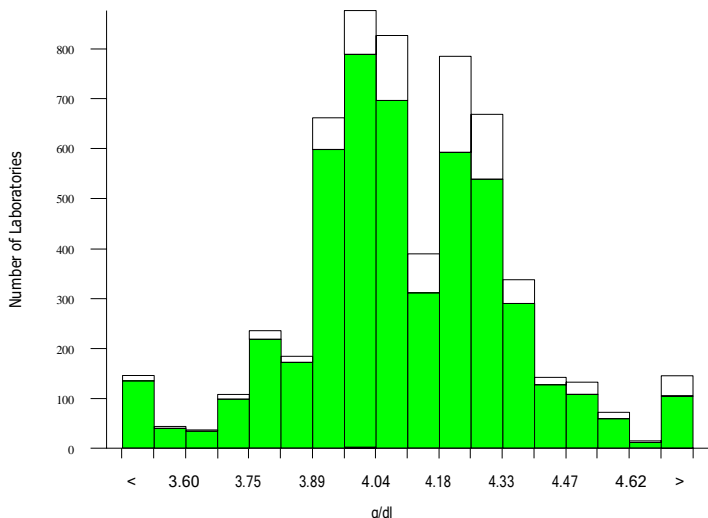
Issue Date: 03/10/2022

Albumin, g/dl

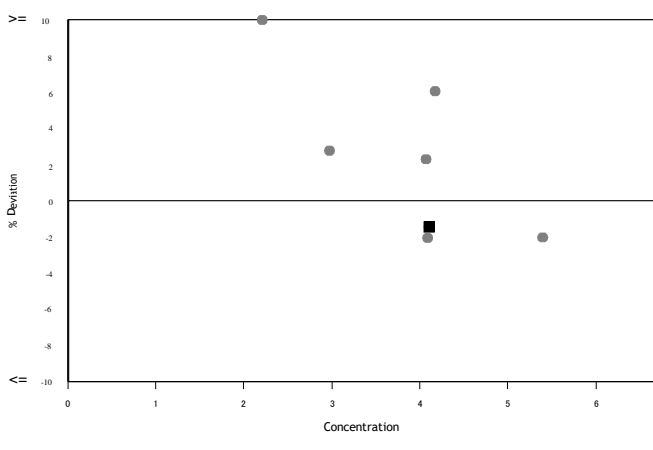
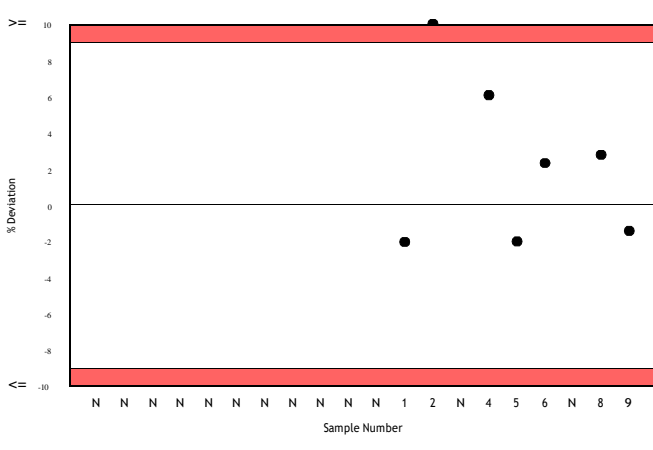
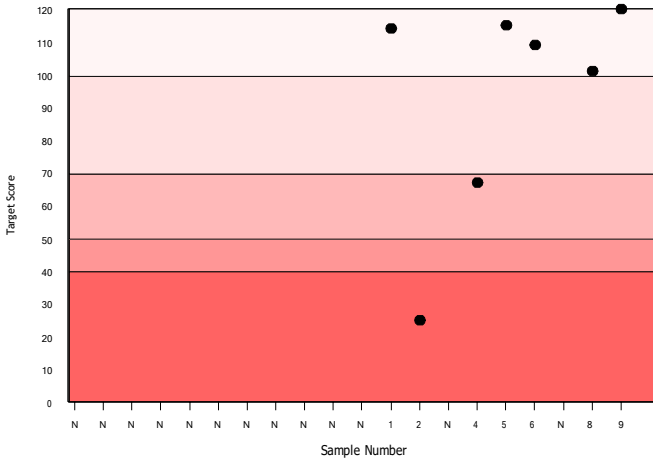
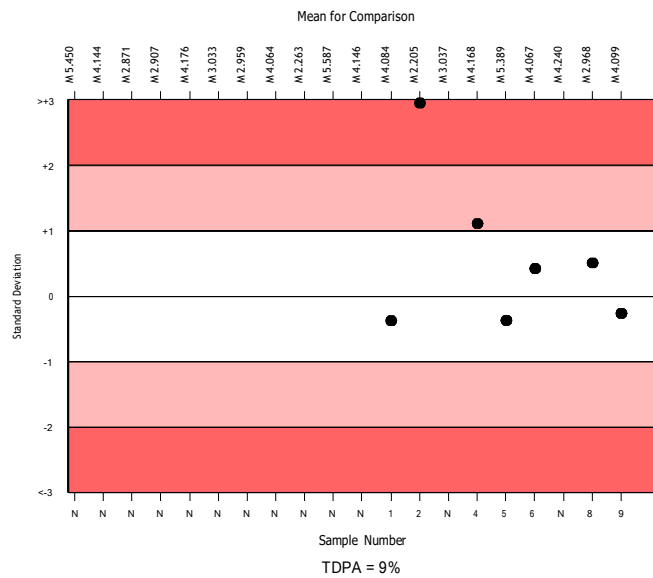
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5449	4.114	4.7	0.00	0.23	355
Bromocresol Green	4621	4.099	4.7	0.00	0.22	303
Tulip Coralyzer 200	2	4.020	0.7	0.02	0.22	0

▲ Your Result	4.040	SDI RMSDI	-0.26 Too Few
■ Mean for Comparison	4.099	TS RMTS	120 Too Few
		%DEV RM%DEV	-1.4 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	4621	4.099	4.7	0.00
Bromocresol Purple	489	4.178	3.4	0.01
Ortho Vitros MicroSlide Systems	198	4.142	3.6	0.01
Agappe - Bromocresol Green	51	4.137	3.3	0.02
Other Dry Chemistry	33	4.788	3.9	0.04
Turbidimetric Assays	31	4.171	5.1	0.05
Nephelometric Assays	5	4.064	6.6	0.15
Vitros DT60/DT60 II/DTSC II	4	4.343	8.6	0.23
Electrophoresis	3	4.040	6.7	0.20

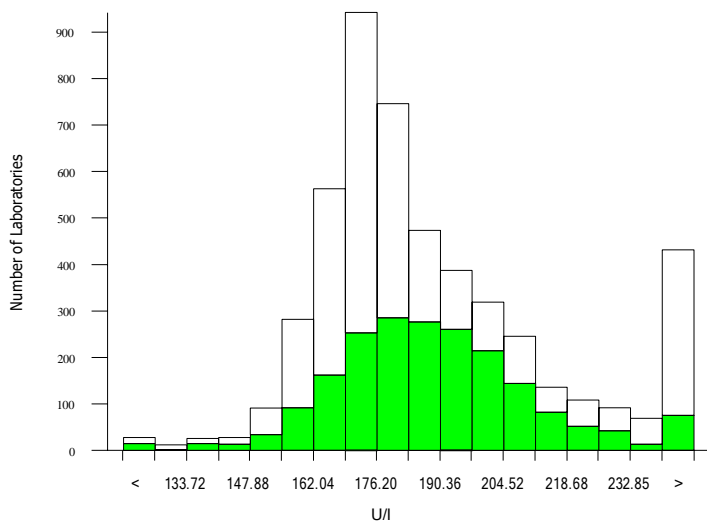
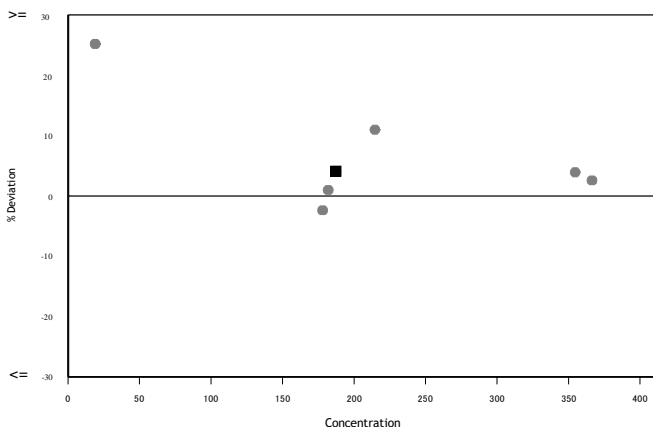
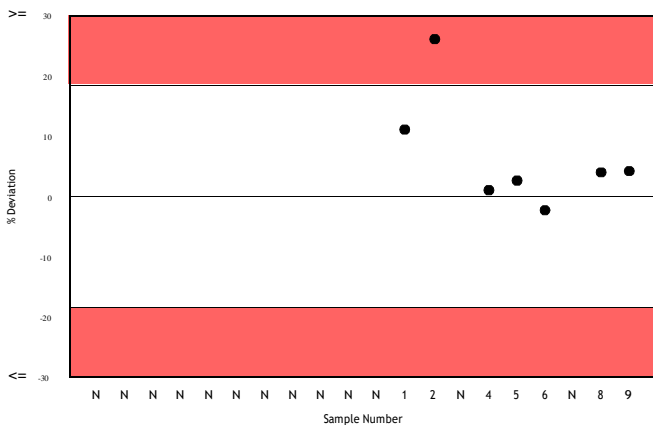
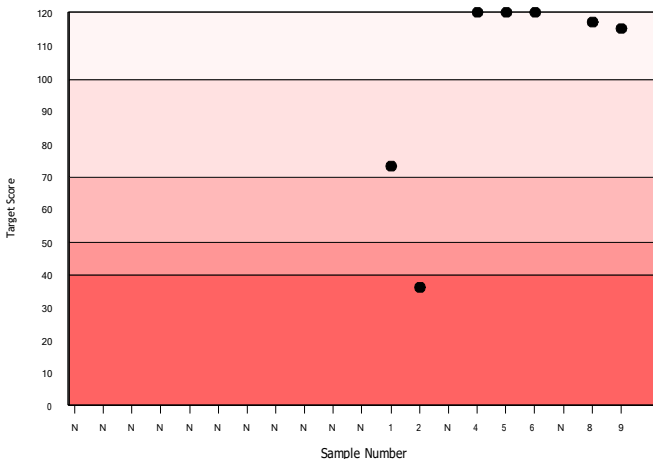
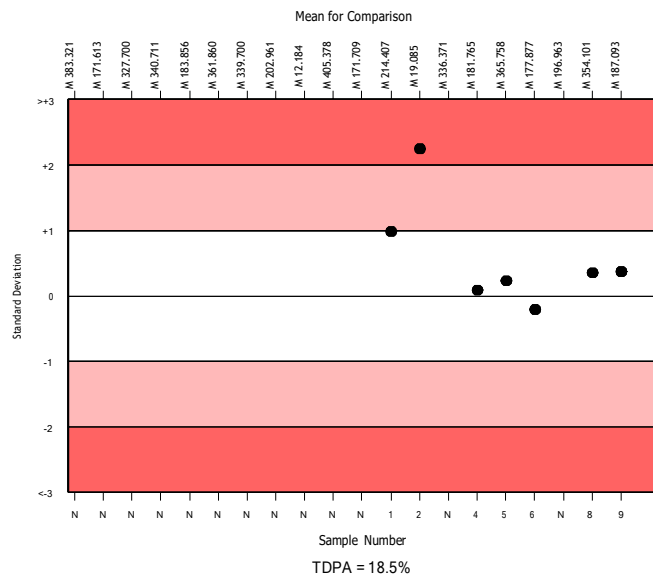


Alkaline Phosphatase, U/l @ 37°C

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4499	183.288	10.3	0.35	20.61	478
AMP optimised to IFCC	1878	187.093	9.0	0.49	21.04	153
Tulip Coralyzer 200	2	182.400	9.6	15.50	25.71a	0

▲ Your Result	194.800	SDI	0.37
		RMSDI	Too Few
■ Mean for Comparison	187.093	TS	115
		RMTS	Too Few
		%DEV	4.1
		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	1878	187.093	9.0	0.49
Roche AMP buffer IFCC	1172	173.322	4.0	0.25
Diethanolamine buffer, DEA	458	246.430	13.7	1.97
Siemens/Dade Dimension AMP buffer	217	170.792	3.7	0.53
Ortho Vitros MicroSlide Systems	216	166.254	5.9	0.83
AMP non-optimised	200	189.137	7.3	1.22
Colorimetric	121	182.324	10.5	2.18
Beckman AMP (Calibrator)	125	201.517	6.3	1.42
Other AMP kits	56	178.807	6.1	1.83
Agappe - DGKC-SCE	46	252.824	9.4	4.38
Other Dry Chemistry	34	191.179	8.0	3.26
Beckman AMP (Extinction Coeff)	21	200.675	6.5	3.54
AMP optimised to NVKC/SFBC	8	210.914	12.9	12.03
AMPD optimised to JSKC	6	192.150	4.0	3.95
Vitros DT60/DT60 II/DTSC II	5	176.400	9.5	9.41
Fuji Dri-Chem JSKC	3	187.333	7.3	9.82
Tris/carbonate buffer	3	186.100	11.0	14.72

A

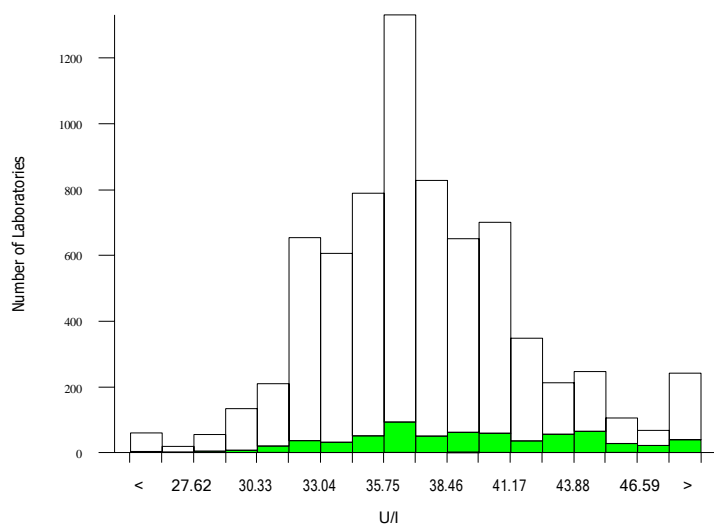
ABC

ALT (GPT), U/I @ 37°C

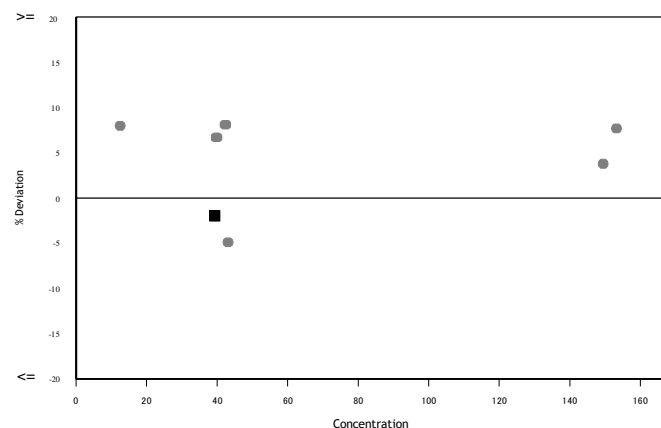
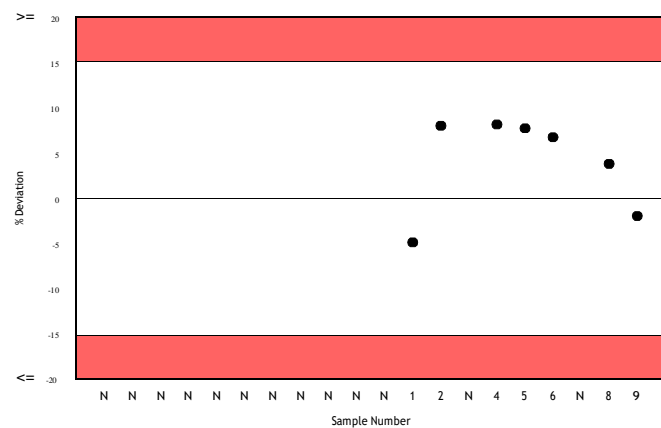
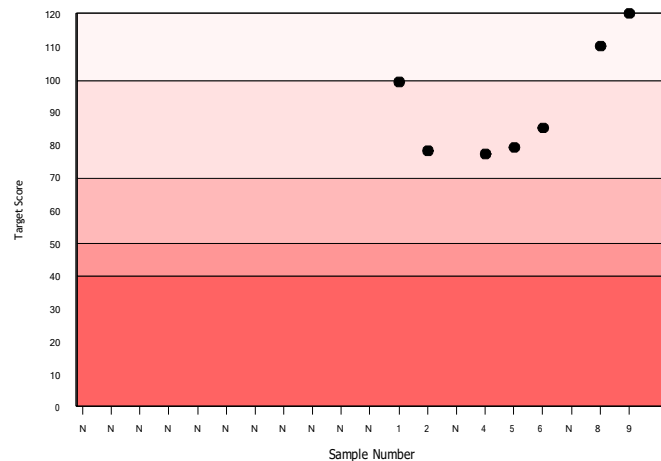
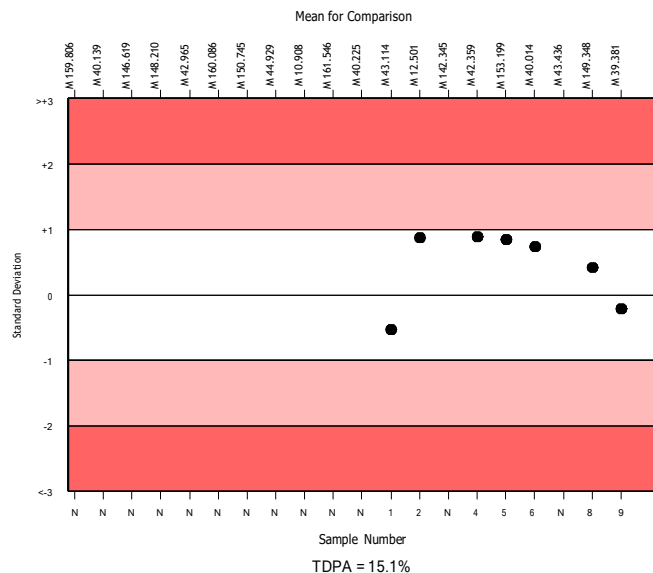
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6823	37.108	9.7	0.05	3.41	434
Tris buffer with P5P	637	39.381	11.8	0.23	3.62	26
Tulip Coralyzer 200	1	38.600	0.0	0.00	N/A	0

▲ Your Result	38.600	SDI	-0.22
		RMSDI	Too Few
■ Mean for Comparison	39.381	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	15.10%



Method	N	Mean	CV%	U _m
Tris buffer without P5P	4580	36.295	9.6	0.06
Beckman Mod. IFCC Ref. without P5P	834	38.183	5.1	0.08
Tris buffer with P5P	637	39.381	11.8	0.23
Siemens/Dade standard nonIFCC correlated	173	43.808	8.1	0.34
Ortho Vitros MicroSlide Systems	158	37.875	5.2	0.20
Beckman IFCC Ref. with P5P	105	38.570	7.0	0.33
Agappe - IFCC	74	38.958	8.9	0.51
Ortho Vitros MicroSlide visible	68	38.037	3.8	0.22
Colorimetric	58	37.924	11.1	0.69
Other Dry Chemistry	42	35.560	4.0	0.27
Phosphate buffer, DGKC	29	38.756	11.2	1.01
Tris buffer with P5P, NVKC	21	35.129	9.3	0.89
Tris buffer, SCE	16	35.601	8.1	0.90
Beckman (Extinction Coefficient)	10	36.964	8.8	1.28
Vitros DT60/DT60 II/DTSC II	5	37.400	5.2	1.09



A

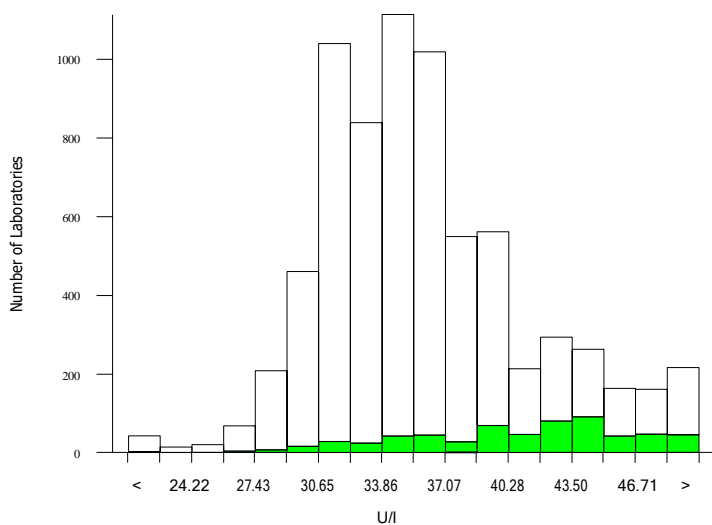
ABC

AST (GOT), U/I @ 37°C

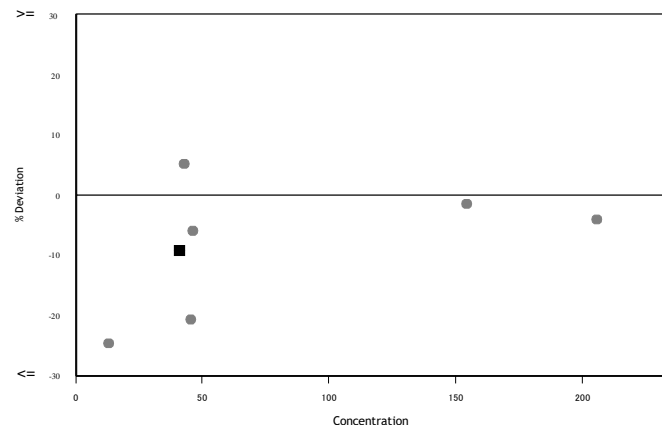
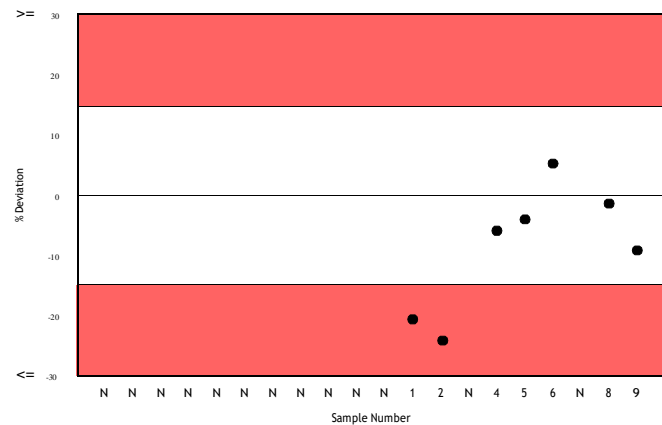
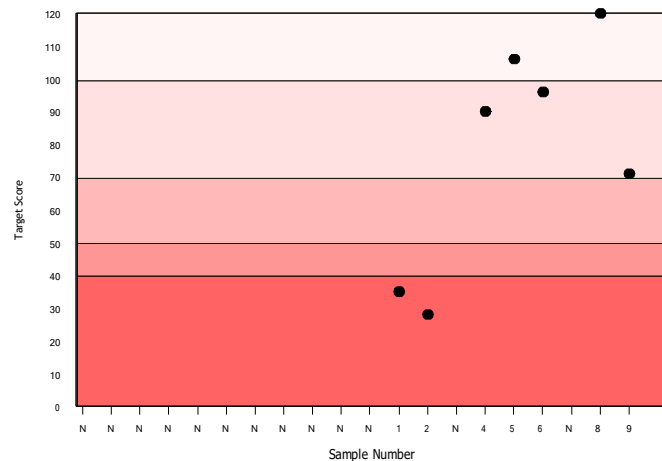
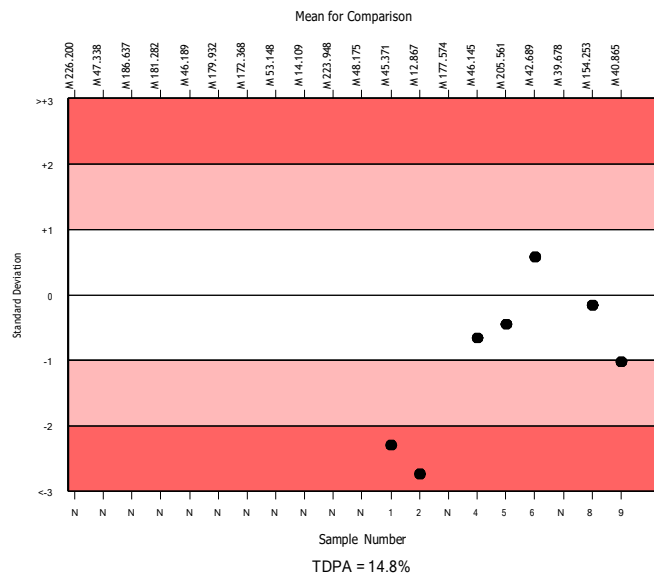
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6783	35.470	12.1	0.07	3.19	457
Tris buffer with P5P	584	40.865	12.7	0.27	3.68	30
Tulip Coralyzer 200	1	37.100	0.0	0.00	N/A	0

▲ Your Result	37.100	SDI	-1.02
		RMSDI	Too Few
■ Mean for Comparison	40.865	TS	71
		RMTS	Too Few
		%DEV	-9.2
		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	4602	34.191	10.3	0.06
Beckman Mod. IFCC Ref. without P5P	851	36.229	5.2	0.08
Tris buffer with P5P	584	40.865	12.7	0.27
Ortho Vitros MicroSlide visible	219	46.097	4.0	0.16
Siemens/Dade standard non IFCC corr.	177	42.032	8.3	0.33
Beckman IFCC Ref. with P5P	87	36.449	8.6	0.42
Agappe - IFCC	74	34.346	6.8	0.34
Colorimetric	53	34.951	11.7	0.70
Other Dry Chemistry	44	33.664	4.5	0.29
Phosphate buffer, DGKC	25	34.878	14.6	1.27
Tris buffer with P5P, NVKC	20	32.285	8.7	0.78
Tris buffer, SCE	17	36.593	11.3	1.26
Beckman (Extinction Coefficient)	11	34.748	9.3	1.22
Vitros DT60/DT60 II/DTSC II	6	38.167	16.6	3.23



A

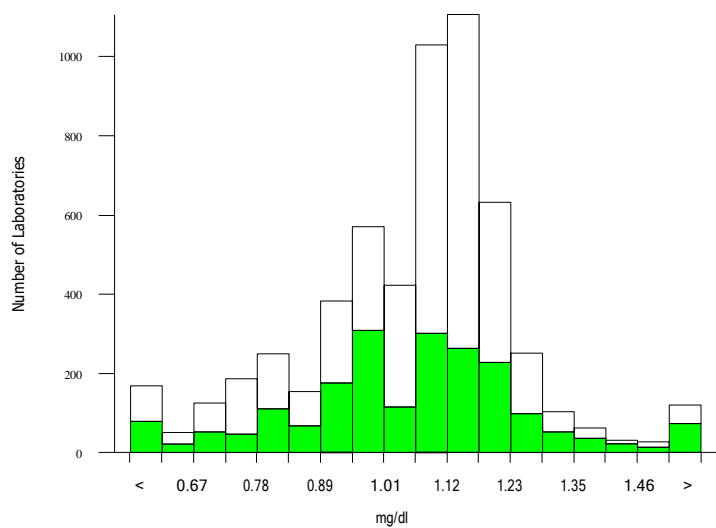
ABC

Bilirubin, Direct, mg/dl

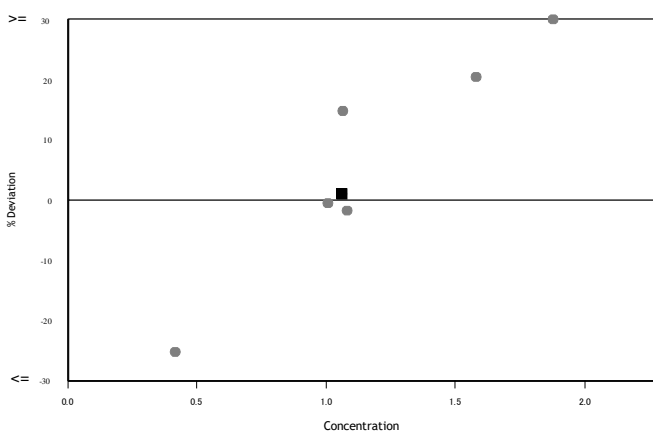
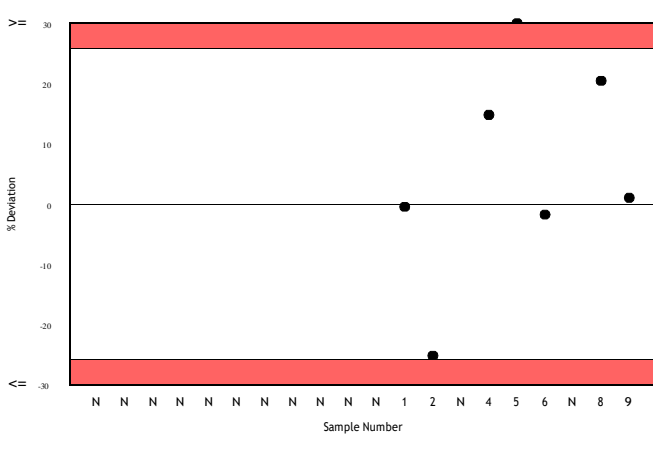
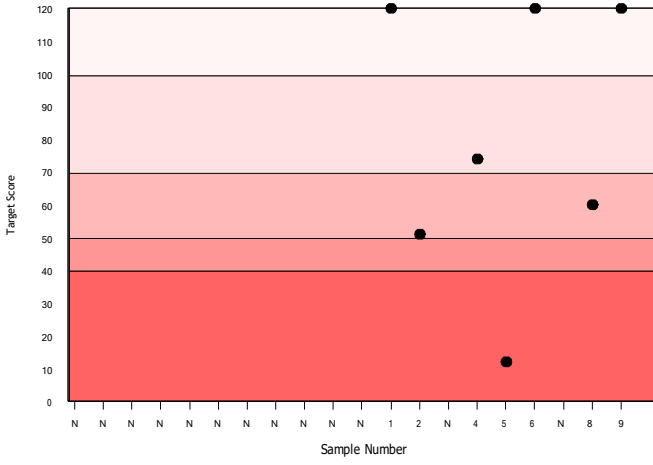
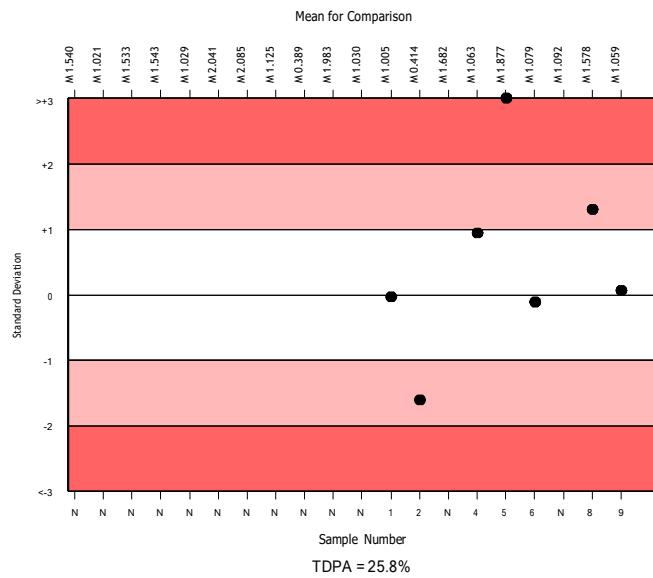
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5319	1.069	14.1	0.00	0.17	347
Diazo with Sulphanilic Acid	1905	1.059	15.8	0.00	0.17	154
Tulip Coralyzer 200	2	0.985	12.2	0.11	0.19a	0

▲ Your Result	1.070	SDI	0.07
		RMSDI	Too Few
■ Mean for Comparison	1.059	TS	120
		RMTS	Too Few
		%DEV	1.0
		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	1905	1.059	15.8	0.00
Dichlorophenyl Diazonium	1454	1.127	6.8	0.00
Diazo with Dichloroaniline	521	1.120	10.7	0.01
Roche DPD JG standardised	368	1.142	5.4	0.00
Oxidation to Biliverdin/Vanadate	327	1.017	9.1	0.01
Diazo/ Sulphanilic Siemens Dimension	248	0.768	5.2	0.00
Roche DPD Dumas standardised	179	1.062	10.6	0.01
Diazo/Sulphanilic Beckman DxC	91	1.080	12.8	0.02
Agappe - DIAZO	52	0.597	13.4	0.01
Other Dry Chemistry	35	0.919	8.7	0.02
Roche (US calibrator only)	4	1.180	4.9	0.04



A

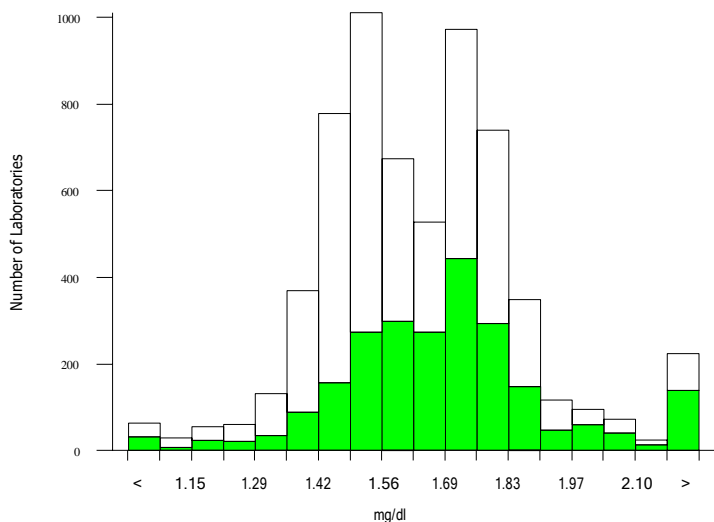
ABC

Bilirubin, Total, mg/dl

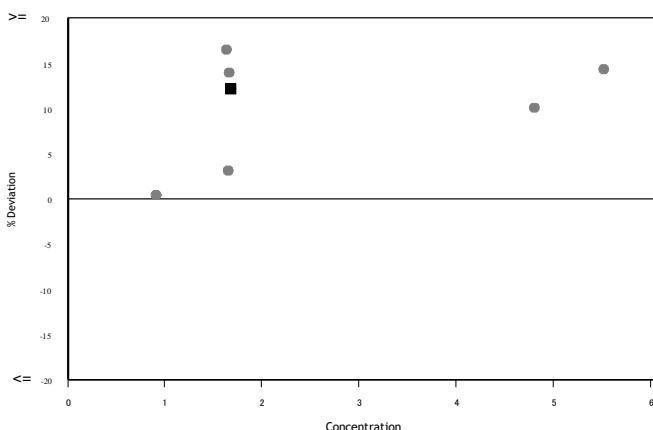
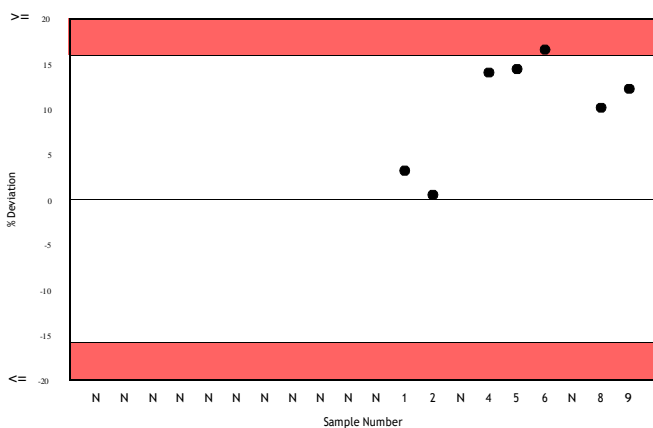
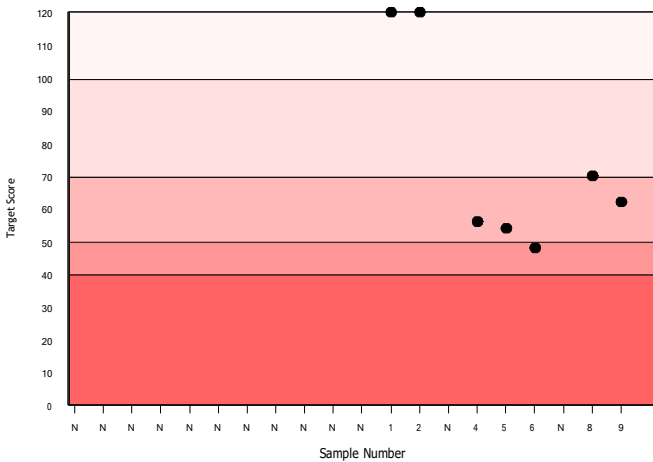
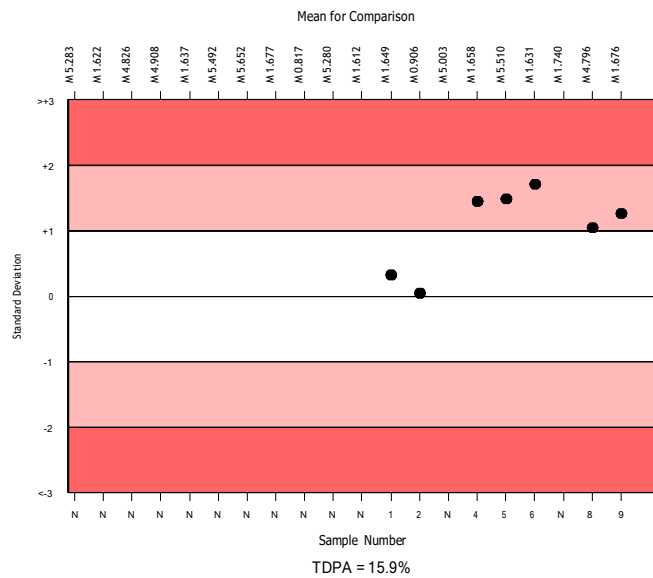
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6019	1.631	11.1	0.00	0.16	265
Diazo with Sulphanilic Acid	2239	1.676	10.9	0.00	0.16	145
Tulip Coralyzer 200	2	1.740	11.4	0.17	0.24a	0

▲ Your Result	1.880	SDI	1.26
		RMSDI	Too Few
■ Mean for Comparison	1.676	TS	62
		RMTS	Too Few
		%DEV	12.2
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	15.90%



Method	N	Mean	CV%	U _m
Diazo with Sulphanilic Acid	2239	1.676	10.9	0.00
Dichlorophenyl Diazonium	1322	1.558	9.1	0.00
Diazonium ion	538	1.504	4.8	0.00
Diazo with Dichloroaniline	542	1.606	9.2	0.01
DPD (Beckman AU)	552	1.781	4.7	0.00
Oxidation to Biliverdin/Vanadate	364	1.770	7.4	0.01
Ortho Vitros MicroSlide System Total Bil	201	1.420	9.5	0.01
Agappe - TAB	48	1.511	8.4	0.02
Other Dry Chemistry	41	1.572	5.5	0.02
Nitrobenzenediazonium Salt	27	1.444	5.8	0.02
Agappe - DMSO	9	1.525	8.8	0.06
Vitros DT60/DT60 II Total Bil	5	1.363	13.0	0.10
Direct Spectrophotometry	6	1.845	10.7	0.10
Assel - DMSO	3	1.743	4.9	0.06



A

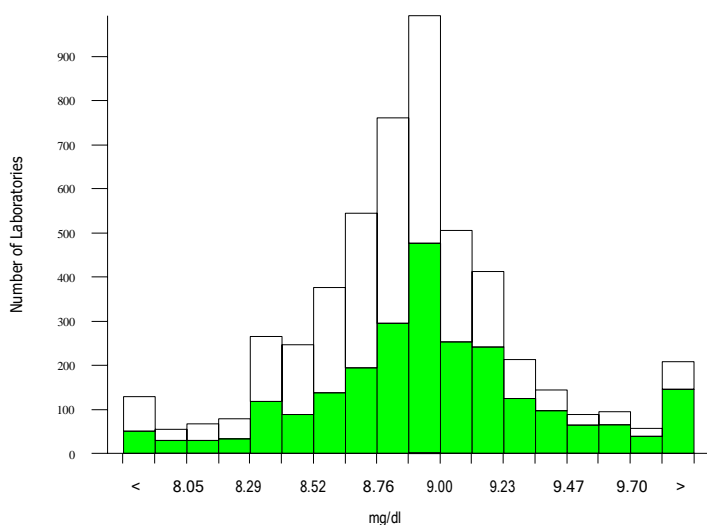
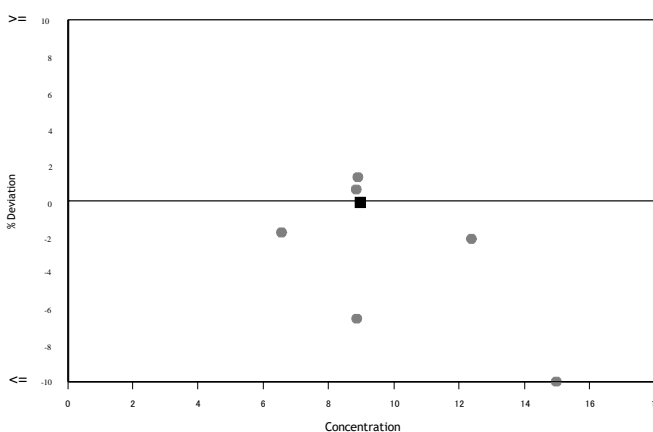
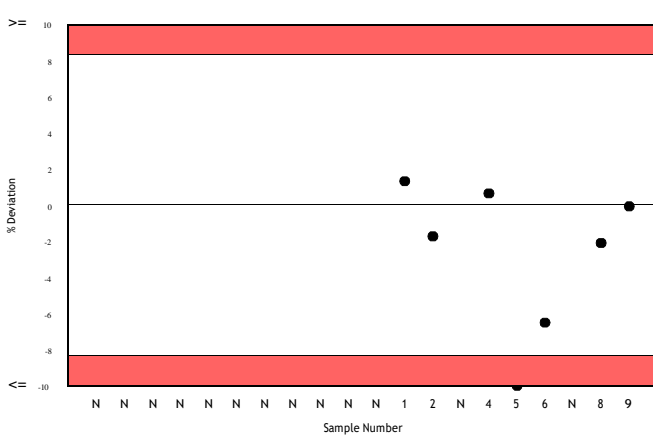
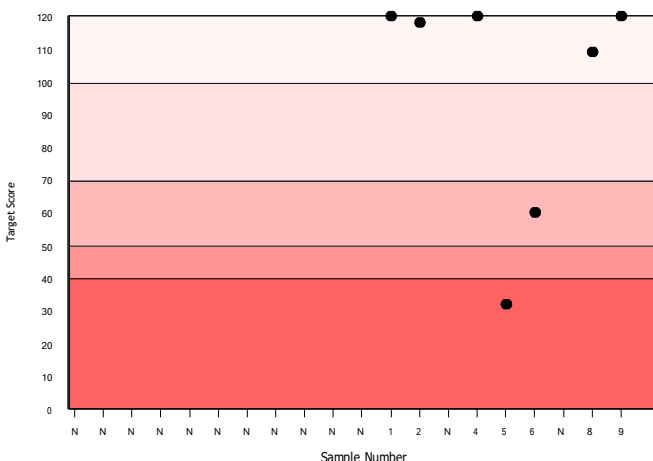
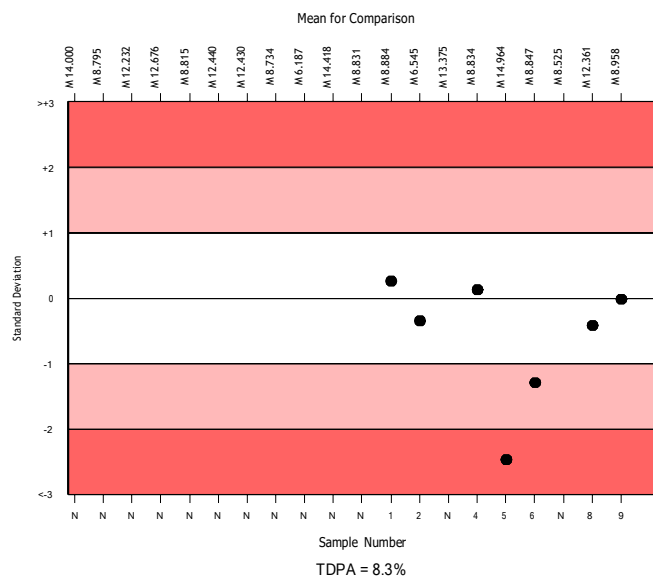
ABC

Calcium, mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4821	8.883	3.5	0.01	0.45	415
Arsenazo	2282	8.958	3.9	0.01	0.45	195
Tulip Coralyzer 200	2	8.975	0.4	0.03	0.45	0

▲ Your Result	8.950	SDI RMSDI	-0.02 Too Few
■ Mean for Comparison	8.958	TS RMTS	120 Too Few
		%DEV RM%DEV	-0.1 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	2282	8.958	3.9	0.01
Cresolphthalein complexone	1184	8.734	3.4	0.01
NM-BAPTA	878	8.923	1.9	0.01
Ortho Vitros MicroSlide Systems	214	8.789	2.5	0.02
Ion selective electrode	121	8.910	4.1	0.04
Agappe - ARSENAZO	40	9.333	2.9	0.05
Other Dry Chemistry	27	8.708	3.2	0.07
Phosphonazo	25	8.668	4.0	0.09
Methylthymol blue	13	9.078	4.8	0.15
Agappe - OCPC	4	8.890	5.7	0.31
Atomic absorption	3	7.227	32.0	1.67
Vitros DT60/DT60 II/DTSC II	3	8.627	1.3	0.08

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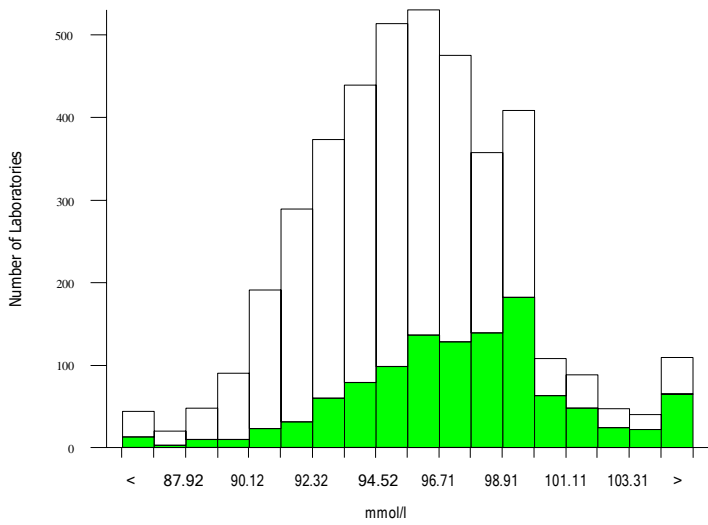
ABC

Chloride, mmol/l

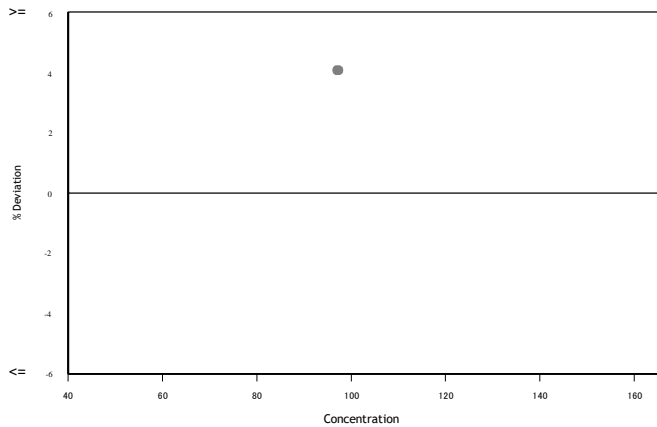
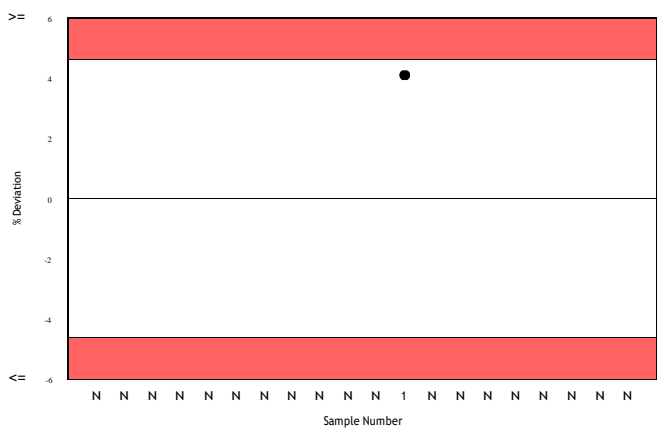
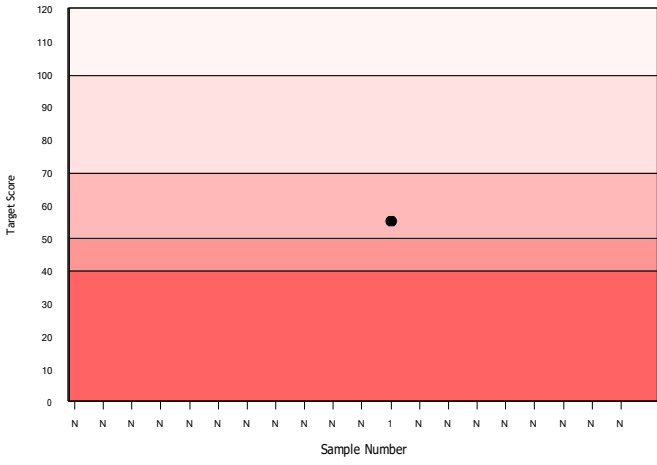
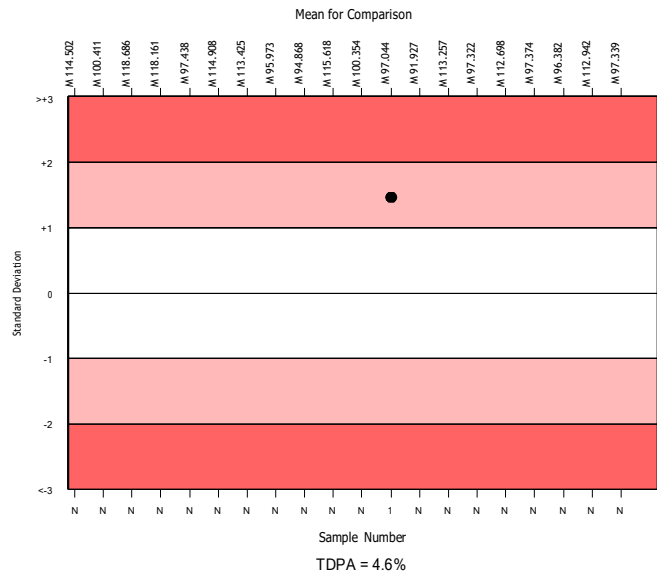
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3903	95.620	3.1	0.06	2.67	267
ISE, direct	1041	97.339	3.1	0.12	2.72	93
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI RMSDI	Too Few
■ Mean for Comparison	97.339	TS RMTS	Too Few
		%DEV 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	2569	94.823	2.7	0.06
ISE, direct	1041	97.339	3.1	0.12
Ortho Vitros MicroSlide Systems	139	96.700	2.1	0.22
Colorimetric	112	99.527	3.0	0.35
Other Dry Chemistry	25	96.044	2.3	0.54
Agappe - THIOCYANATE	8	101.001	2.4	1.06
Optical Fluorescence	6	106.433	7.1	3.88



A

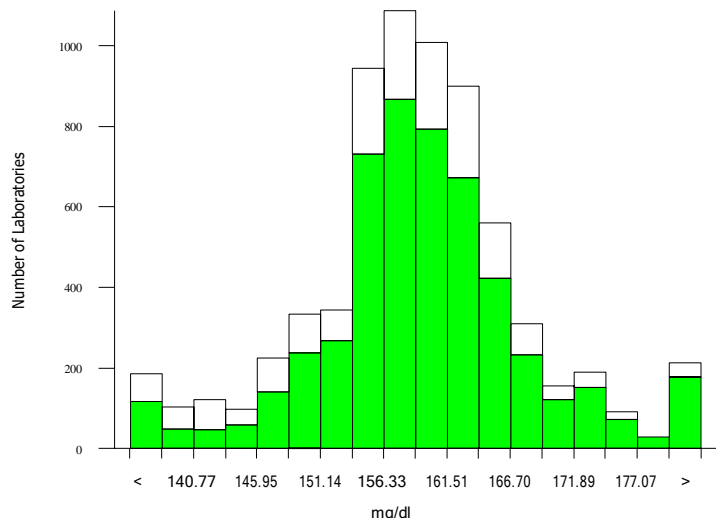
ABC

Cholesterol, mg/dl

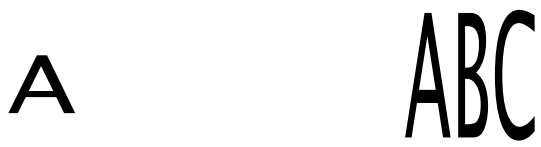
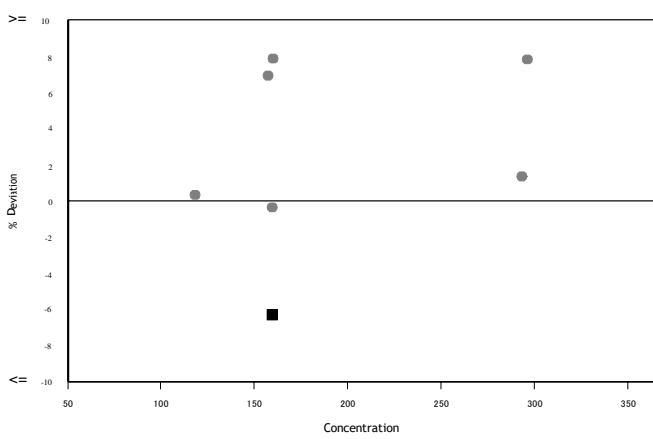
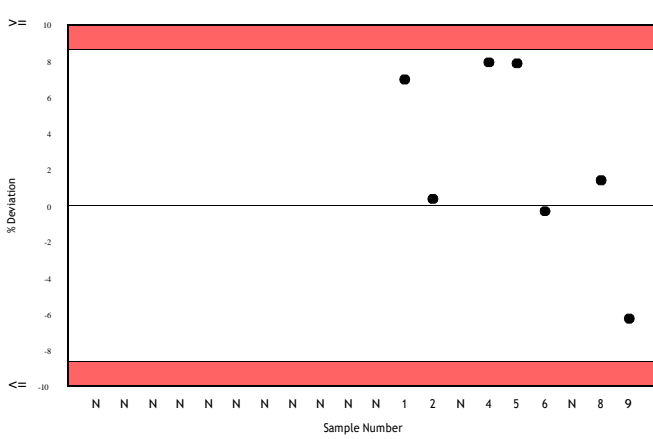
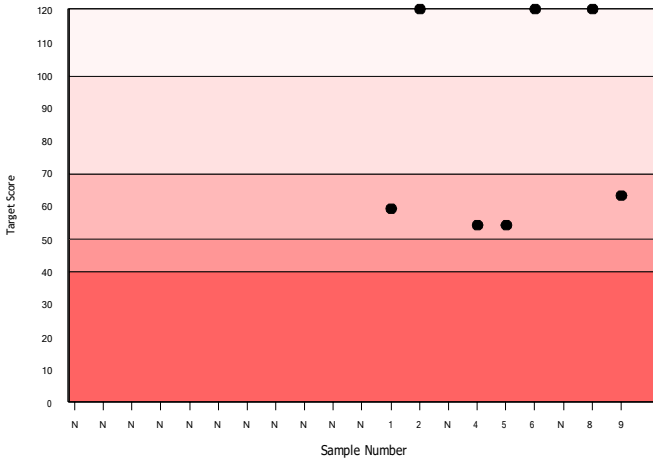
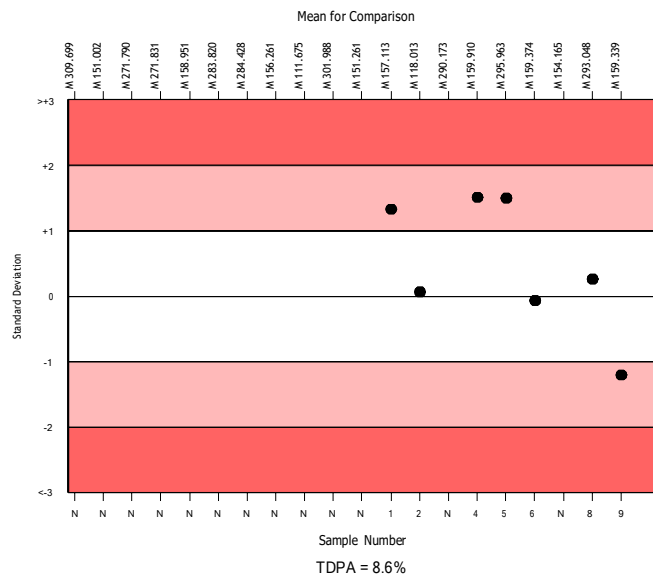
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6391	158.926	4.4	0.11	8.31	492
Cholesterol Oxidase - Abell Kendall	4807	159.339	4.1	0.12	8.33	367
Tulip Coralyzer 200	1	149.300	0.0	0.00	N/A	0

▲ Your Result	149.300	SDI	-1.21
		RMSDI	Too Few
■ Mean for Comparison	159.339	TS	63
		RMTS	Too Few
		%DEV	-6.3
		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	4807	159.339	4.1	0.12
Cholesterol Oxidase - IDMS	864	160.801	3.4	0.23
Siemens Dimension	247	142.971	4.0	0.45
Ortho Vitros MicroSlide Systems	219	155.185	3.1	0.40
Cholesterol Dehydrogenase	129	159.965	4.6	0.80
Agappe - CHOD-PAP	73	156.314	3.5	0.79
Other Dry Chemistry	39	156.118	3.9	1.22
Vitros DT60/DT60 II/DTSC II	4	151.423	1.9	1.82
Dimension - non Siemens reagents	3	146.538	5.7	6.00

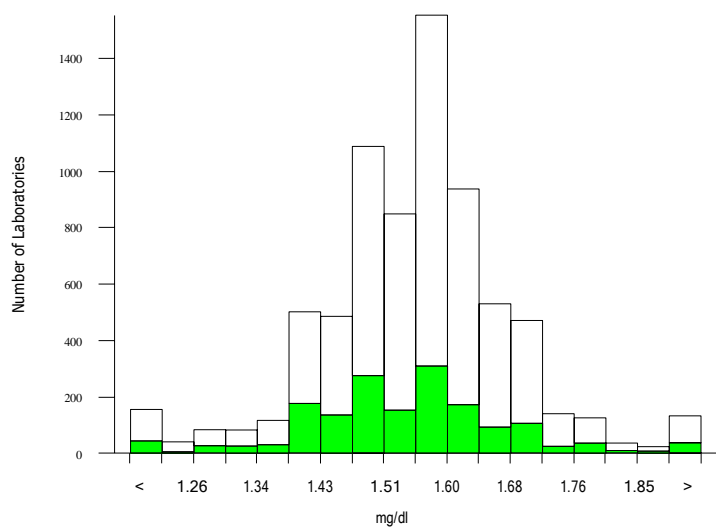


Creatinine, mg/dl

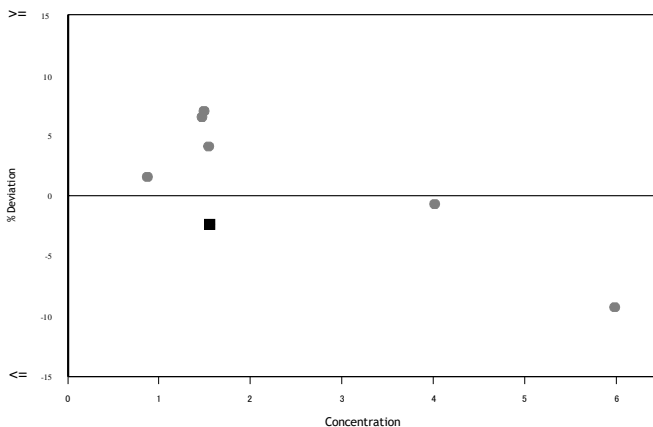
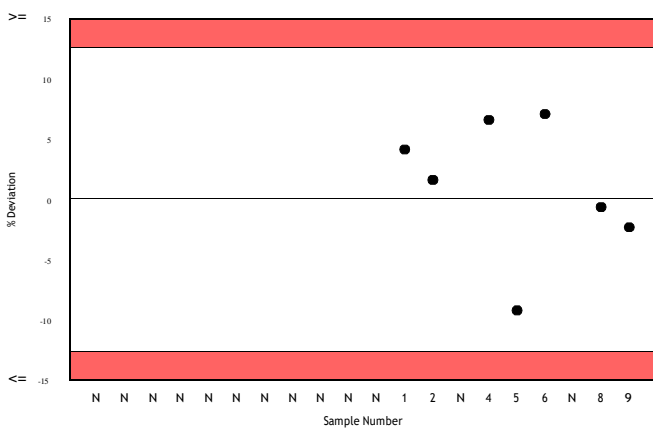
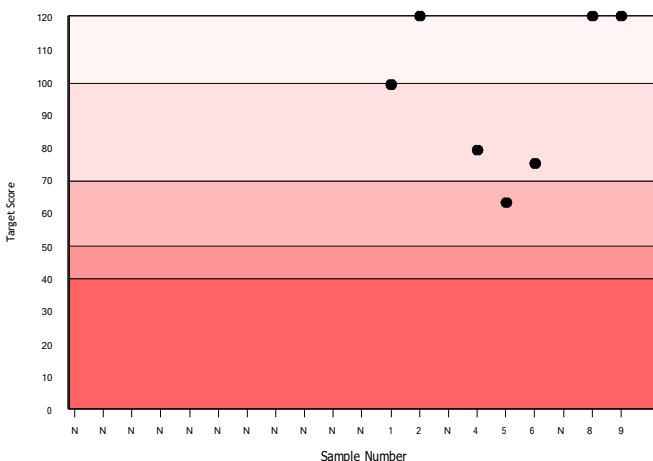
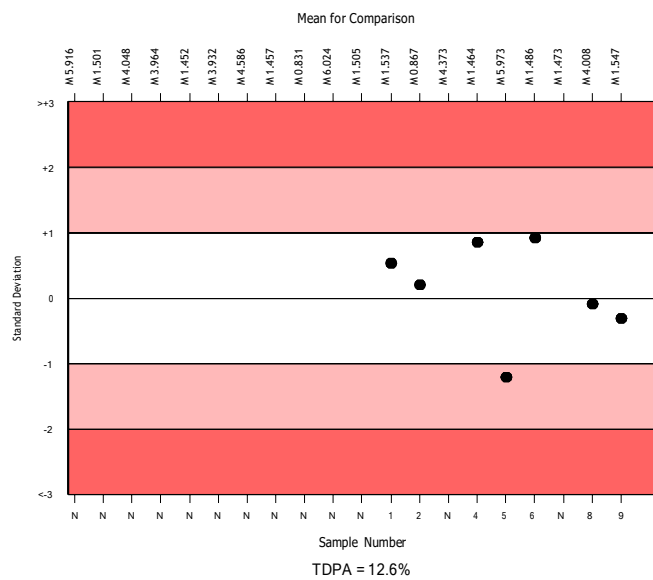
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	7152	1.559	7.2	0.00	0.12	191
Jaffe rate blanked	1609	1.547	7.8	0.00	0.12	55
Tulip Coralyzer 200	1	1.510	0.0	0.00	N/A	0

▲ Your Result	1.510	SDI	-0.31
		RMSDI	Too Few
■ Mean for Comparison	1.547	TS	120
		RMTS	Too Few
		%DEV	-2.4
		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	1946	1.561	6.8	0.00
Jaffe rate blanked	1609	1.547	7.8	0.00
Jaffe rate blanked comp. (-26umol/l)	827	1.578	5.7	0.00
Jaffe rate comp. (-18umol/l)	387	1.535	5.6	0.01
Enzymatic UV method (340nm)	342	1.581	4.5	0.00
Creatinine PAP method	338	1.575	5.4	0.01
Roche Creatinine Plus	331	1.617	3.6	0.00
IDMS traceable	323	1.559	5.3	0.01
Other enzymatic methods	276	1.581	4.1	0.00
Vitros, IDMS traceable	163	1.525	3.1	0.00
Alkaline picrate with deproteinisation	147	1.557	7.4	0.01
Jaffe rate blanked comp. (-33umol/l)	69	1.539	7.9	0.02
Other Dry Chemistry	65	1.503	4.9	0.01
Agappe - JAFFE'S KINETIC	56	1.564	10.5	0.03
Vitros DT60/DT60 II/DTSC II	25	1.509	2.5	0.01
Agappe - ENZYMATIC	24	1.505	9.6	0.04



A

ABC

Glucose, mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6911	110.486	4.2	0.07	5.71	513
Glucose oxidase	2908	111.279	5.9	0.15	5.75	188
Tulip Coralyzer 200	2	117.450	6.6	6.81	9.12a	0

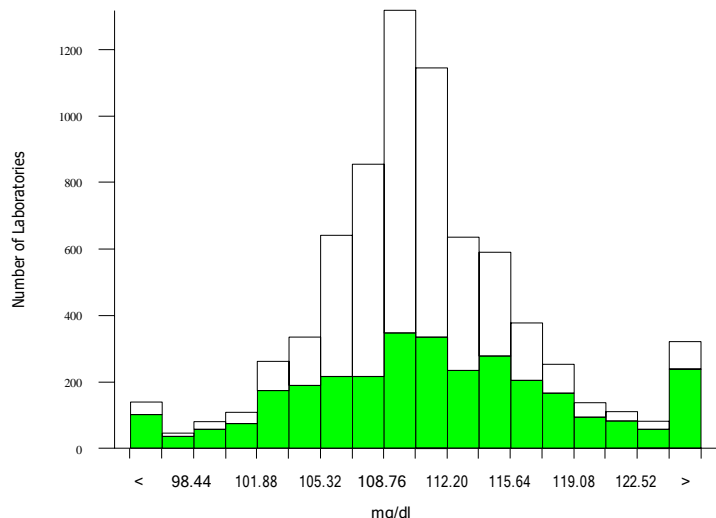
▲ Your Result	122.900	SDI	2.02
		RMSDI	Too Few
■ Mean for Comparison	111.279	TS	41
		RMTS	Too Few
		%DEV	10.4
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation: N/A

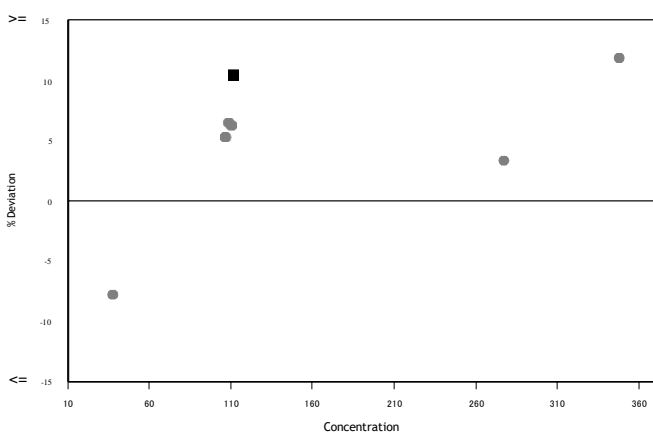
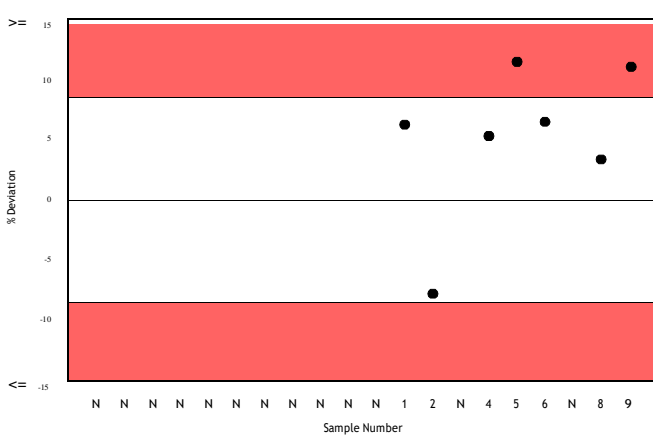
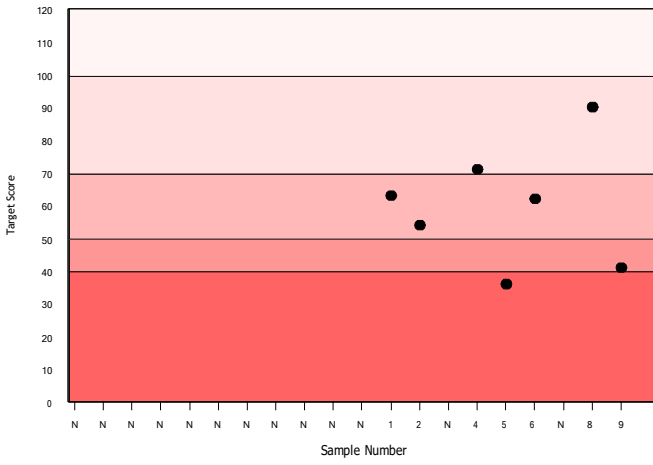
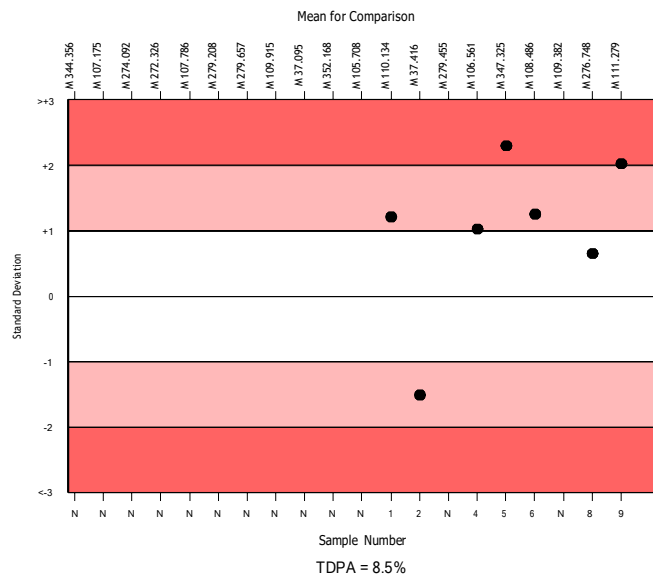
Acceptable limits of performance for RIQAS: 8.50 %

SDI in bottom 5% of peer group

TS & %DEV outside limits



Method	N	Mean	CV%	U _m
Hexokinase	3611	110.030	2.9	0.07
Glucose oxidase	2908	111.279	5.9	0.15
Ortho Vitros MicroSlide Systems	227	110.529	2.7	0.25
Agappe - GOD-PAP	70	114.592	4.6	0.79
Glucose dehydrogenase	70	111.517	4.5	0.74
Other Dry Chemistry	38	110.441	2.3	0.52
GOD/02-Beckman method	34	109.891	4.2	0.99
Oxygen electrode	11	109.026	3.4	1.41
Vitros, DT60/DT60 II	5	112.700	3.0	1.87



A

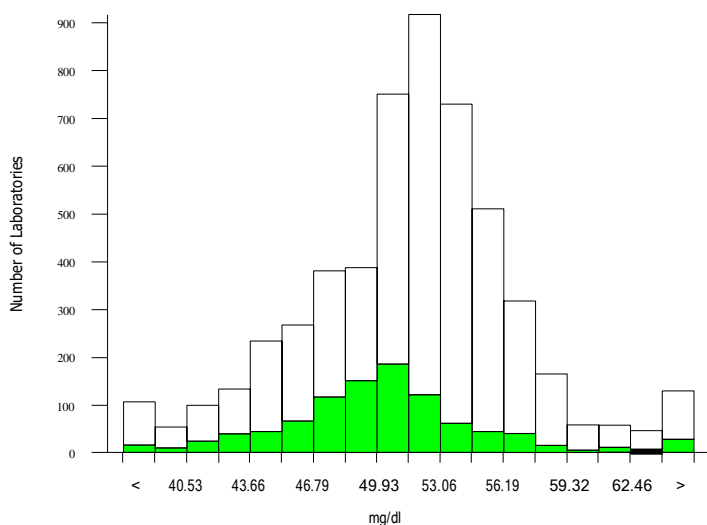
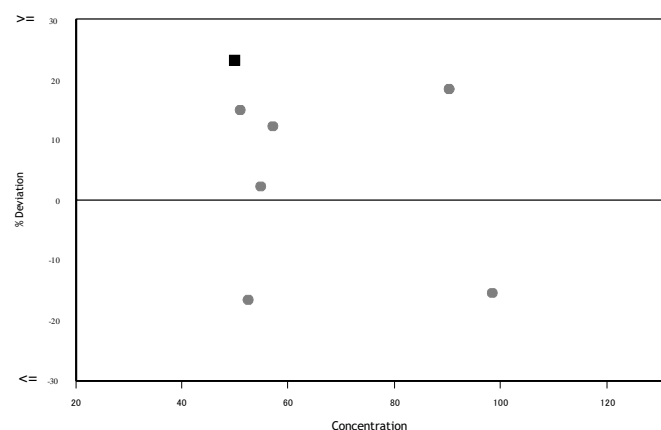
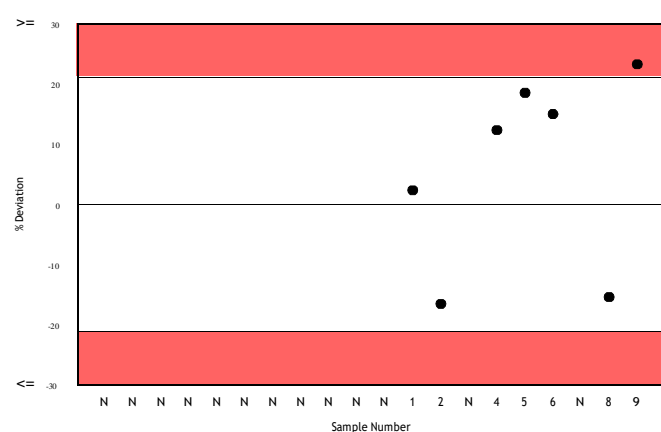
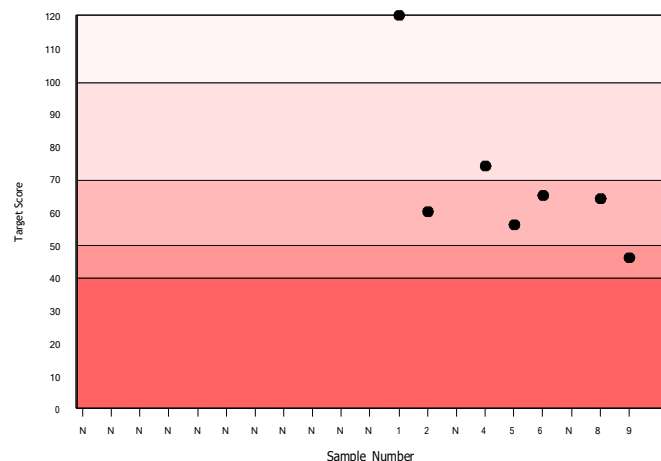
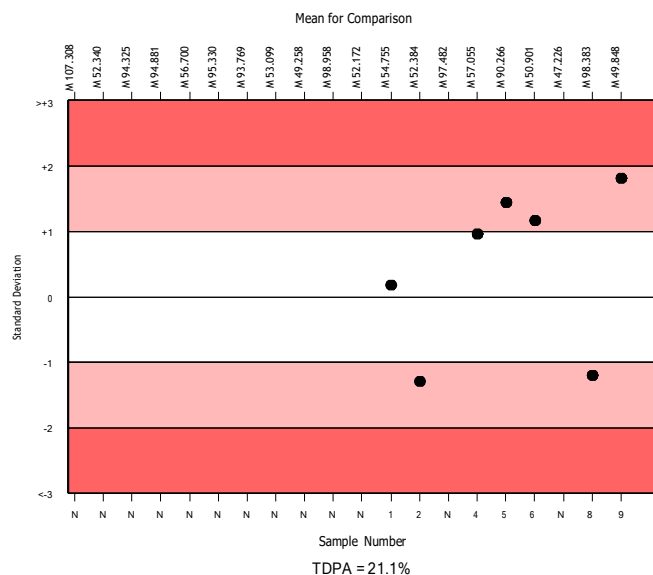
ABC

HDL-Cholesterol, mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4981	51.498	8.1	0.07	6.60	353
Direct HDL, Immunoseparation	909	49.848	7.7	0.16	6.39	73
Tulip Coralyzer 200	1	61.410	0.0	0.00	N/A	0

▲ Your Result	61.410	SDI RMSDI	1.81 Too Few
■ Mean for Comparison	49.848	TS RMTS	46 Too Few
		%DEV RM%DEV	23.2 Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	21.10%
TS & %DEV outside limits	



Method	N	Mean	CV%	U _m
Direct HDL, Roche 4th gen.	1329	52.516	4.0	0.07
Direct HDL, Clearance method	1014	48.785	10.7	0.20
Direct HDL, Immunoseparation	909	49.848	7.7	0.16
HDL Ultra/Accel Selective Detergent	532	54.444	4.8	0.14
Direct HDL, PEGME	511	51.565	10.4	0.30
Direct HDL, PPD	338	52.637	8.2	0.29
Vitros dHDL, PTA/MgCl2 direct precip.	176	52.412	5.3	0.26
Agappe - SELECTIVE INHIBITION	59	54.356	6.9	0.61
Other Dry Chemistry	46	53.877	6.3	0.62
Vitros, Magnetic HDL	21	51.668	2.7	0.38
Vitros 5.1 FS Microtip assay	11	52.908	5.8	1.15

A

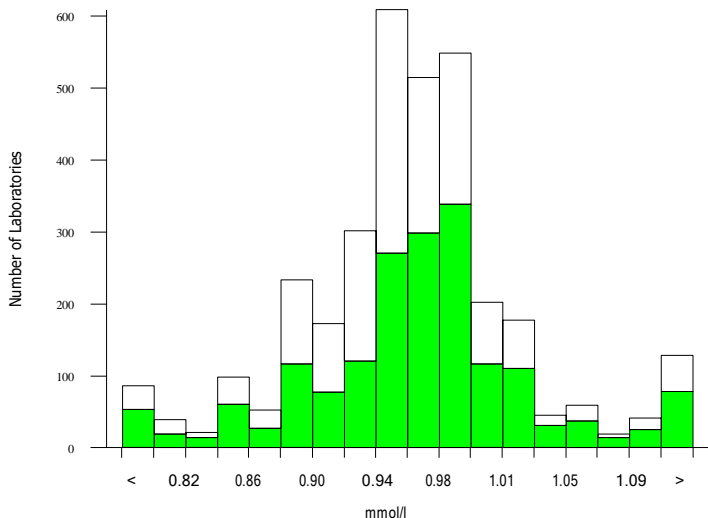
ABC

Magnesium, mmol/l

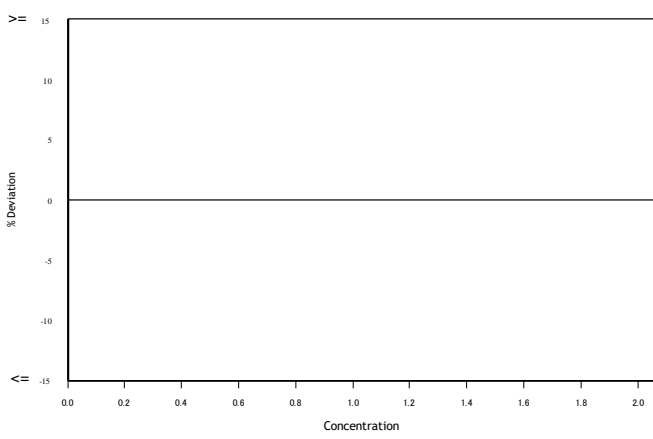
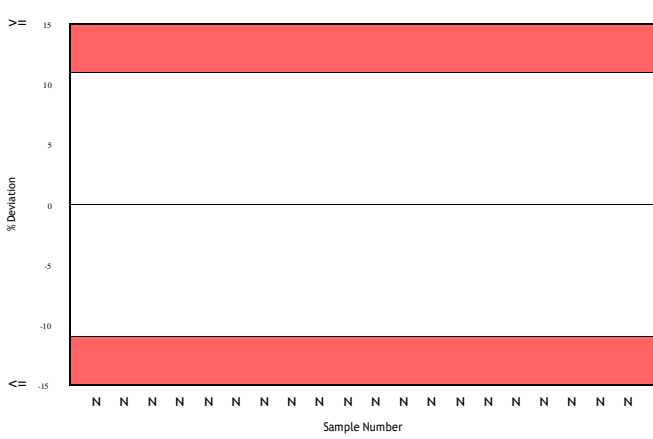
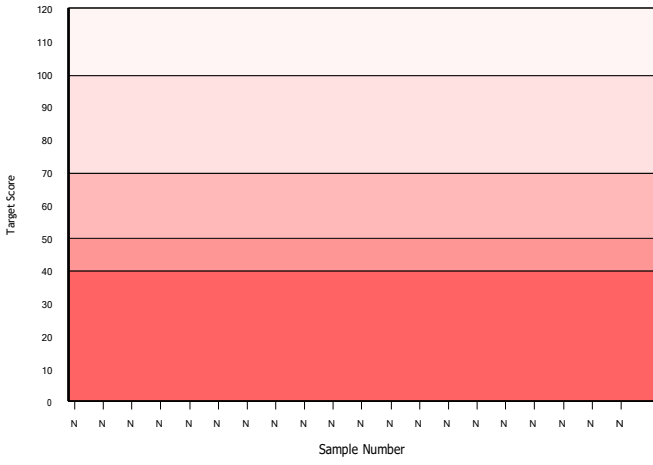
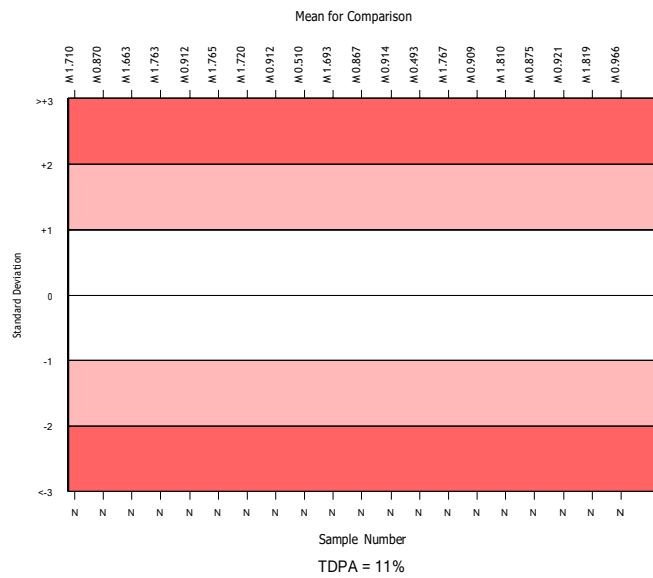
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3137	0.961	5.2	0.00	0.06	206
Xylidyl Blue	1676	0.966	5.4	0.00	0.06	127
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	RMSDI	Too Few
▲ Mean for Comparison	0.966	TS	RMTS	Too Few
		%DEV	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	1676	0.966	5.4	0.00
Enzymatic	341	0.950	3.0	0.00
Chlorophosphonazo III	326	0.968	3.0	0.00
Methylthymol blue	233	0.964	4.6	0.00
Ortho Vitros MicroSlide Systems	180	0.946	4.1	0.00
Calmagite	122	0.941	7.7	0.01
Arsenazo	85	0.939	3.3	0.00
Atomic absorption	59	0.962	5.5	0.01
Agappe - XYLIDYL BLUE	32	1.016	7.0	0.02
Other Dry Chemistry	18	0.983	8.3	0.02
Other magnesium dyes	7	0.896	4.8	0.02

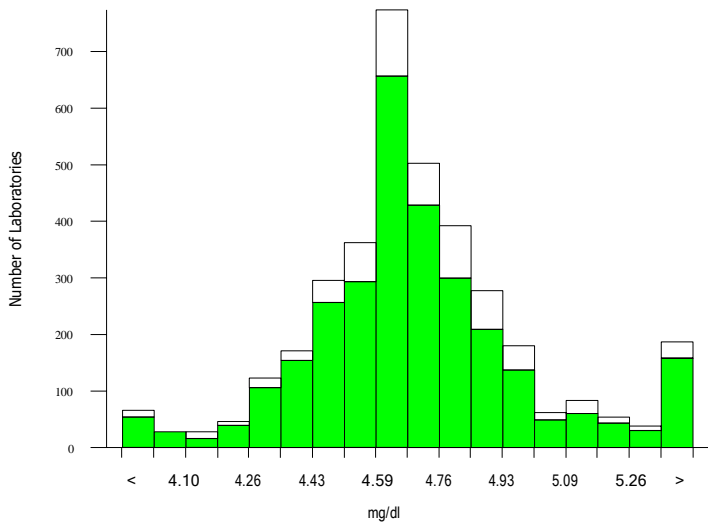


Phosphate, Inorganic, mg/dl

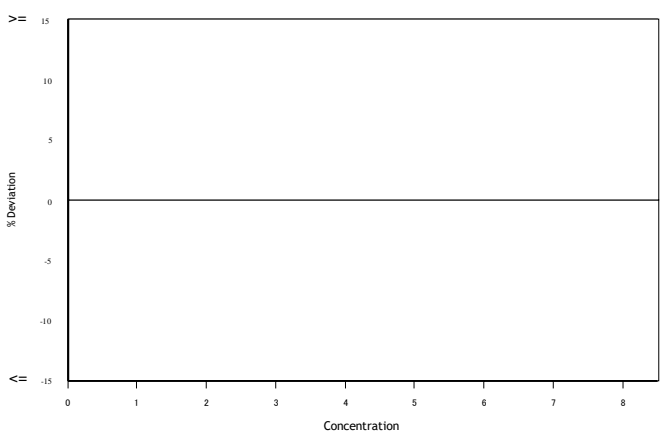
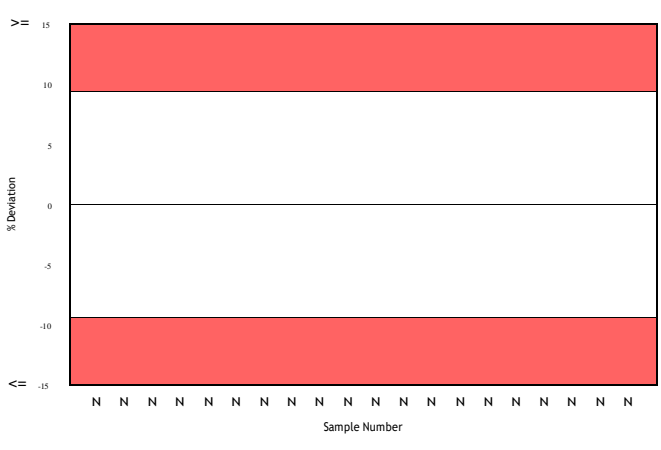
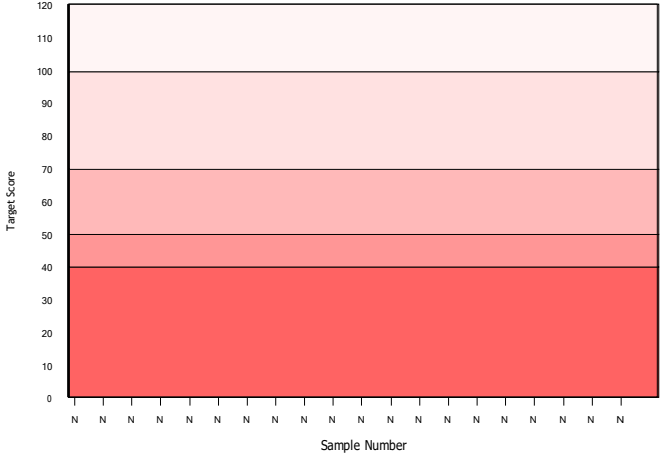
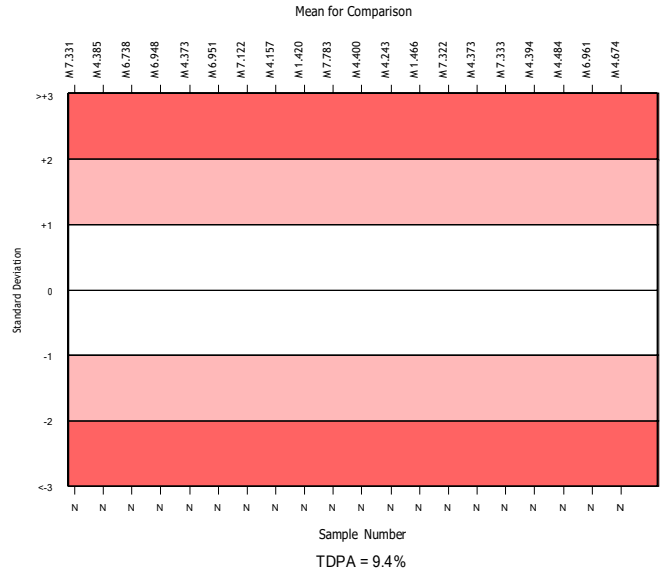
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3414	4.683	4.7	0.00	0.27	254
Phosphomolybdate UV	2801	4.674	4.7	0.00	0.27	214
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI RMSDI	Too Few
■ Mean for Comparison	4.674	TS RMTS	Too Few
		%DEV 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	2801	4.674	4.7	0.00
Phosphomolybdate enzymatic	300	4.647	3.3	0.01
Ortho Vitros MicroSlide Systems	186	4.790	3.7	0.02
Beckman PHOSm kit (365nm)	43	4.640	5.4	0.05
Agappe - PHOSPHOMOLYBDATE	34	5.116	3.5	0.04
Other Dry Chemistry	14	4.884	4.2	0.07
Other methods, no protein ppt	6	4.550	8.0	0.19
Other methods, with protein ppt	3	4.902	8.2	0.29
Vitros, DT60/DT60 II/DTSC II	2	4.772	3.8	0.16

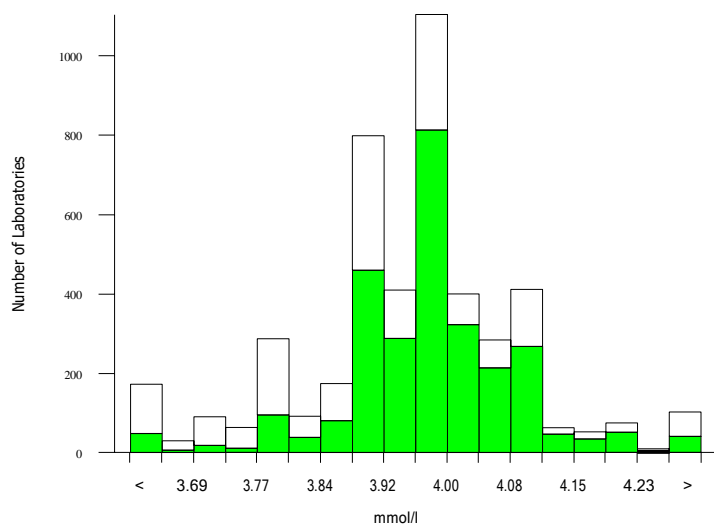


Potassium, mmol/l

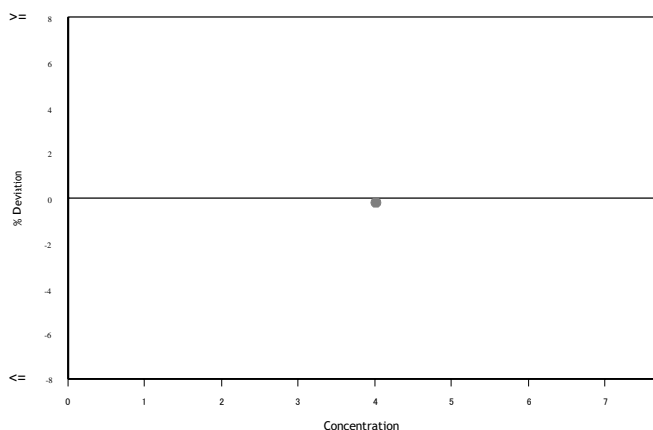
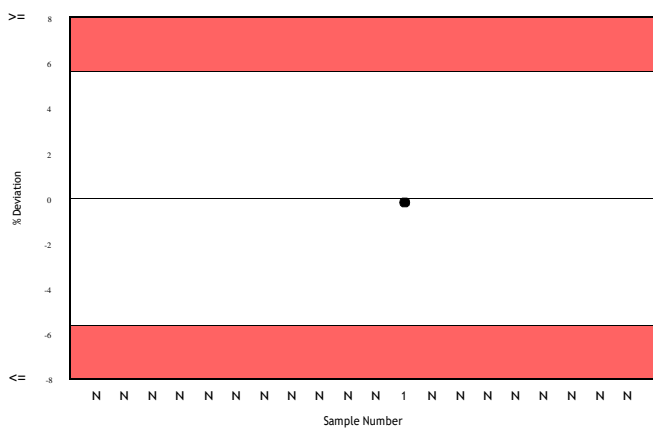
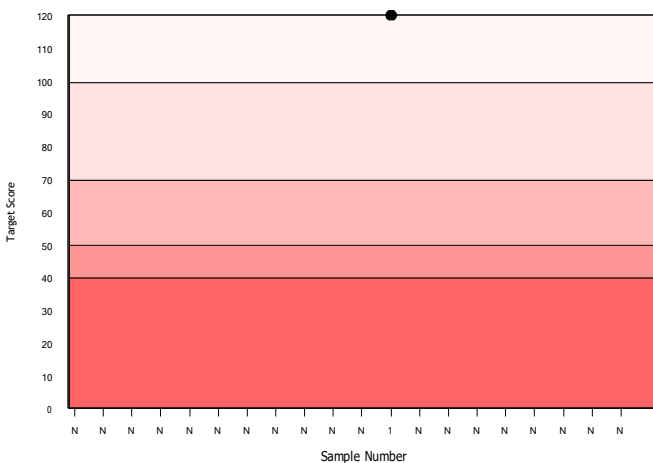
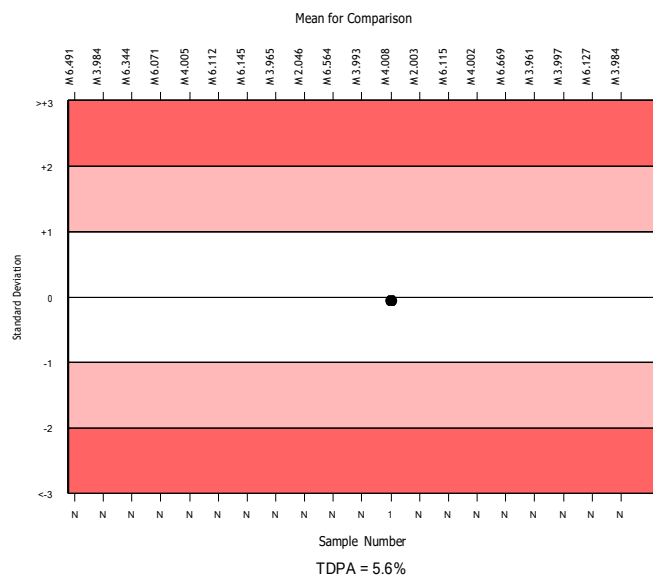
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4309	3.965	2.6	0.00	0.14	295
ISE method - indirect	2653	3.984	2.0	0.00	0.14	180
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	RMSEI	Too Few
▲ Mean for Comparison	3.984	TS	RMTS	Too Few
		%DEV	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	2653	3.984	2.0	0.00
ISE method - direct	1331	3.913	3.2	0.00
Ortho Vitros MicroSlide Systems	161	4.022	1.8	0.01
Colorimetric	54	3.905	6.3	0.04
Other Dry Chemistry	22	3.814	1.9	0.02
Flame photometry	14	3.879	4.4	0.06
Enzymatic	12	4.198	9.0	0.14
Turbidimetric	9	3.936	4.0	0.07
Agappe - ISE DIRECT	6	4.032	3.3	0.07
Optical Fluorescence	6	3.870	6.7	0.13
Vitros, DT60/DT60 II/DTE II	5	4.000	2.5	0.06



A

ABC

Protein, Total, g/dl

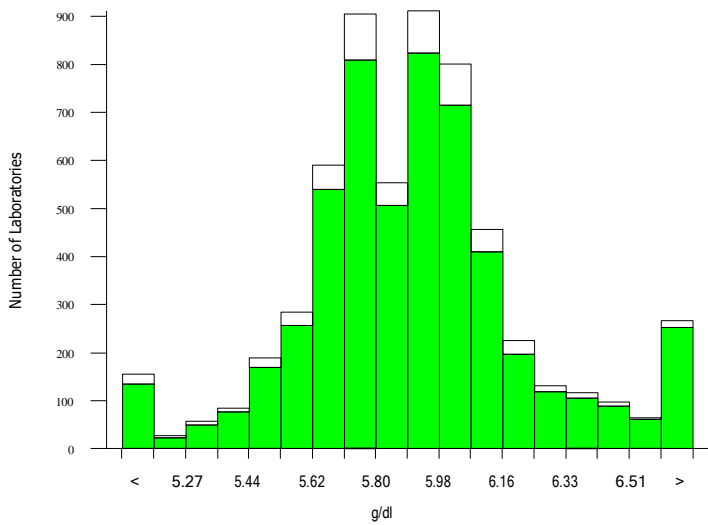
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5476	5.894	4.0	0.00	0.31	434
Biuret reaction, end point	4931	5.894	4.0	0.00	0.31	394
Tulip Coralyzer 200	2	6.110	7.2	0.39	0.50a	0

▲ Your Result	6.420	SDI	1.69
		RMSDI	Too Few
■ Mean for Comparison	5.894	TS	49
		RMTS	Too Few
		%DEV	8.9
		RM%DEV	Too Few

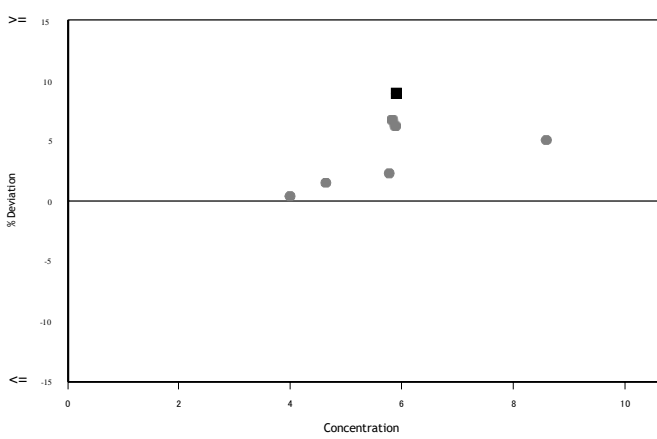
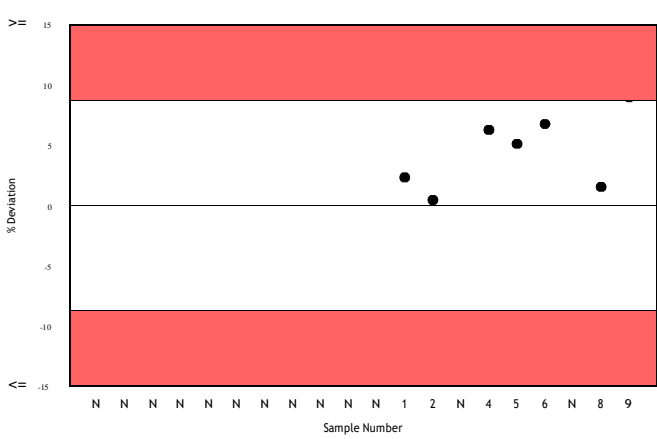
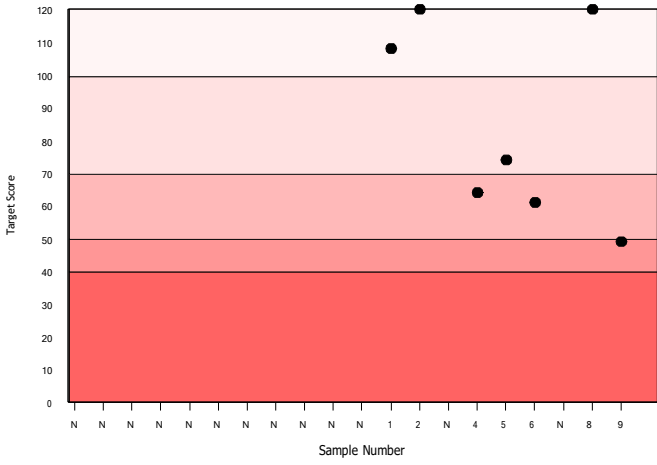
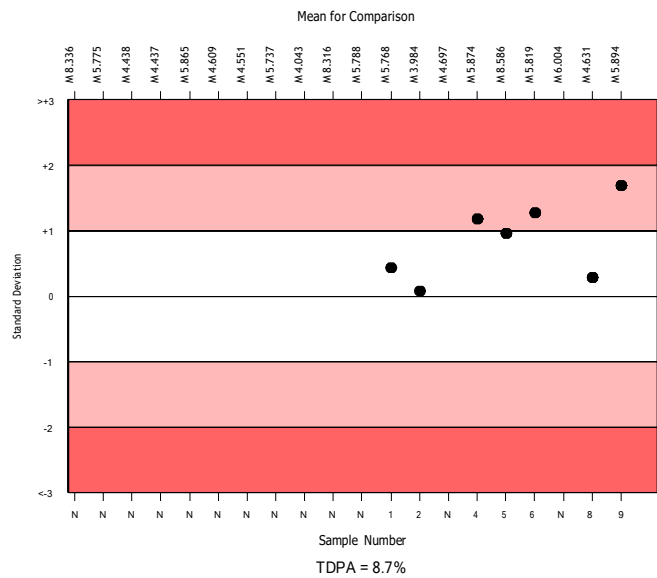
Acceptable limits derived from Biological Variation: N/A

Acceptable limits of performance for RIQAS: 8.70 %

TS & %DEV outside limits



Method	N	Mean	CV%	U _m
Biuret reaction, end point	4931	5.894	4.0	0.00
Ortho Vitros MicroSlide Systems	203	5.895	3.0	0.02
Biuret reaction, kinetic	190	5.857	4.1	0.02
Agappe - BIURET	53	6.046	3.7	0.04
Biuret reaction, CX4/5/7	40	5.778	2.7	0.03
Other Dry Chemistry	39	5.976	4.0	0.05
Vitros, DT60/DT60 II	3	6.017	0.5	0.02
Refractometry	2	5.690	0.7	0.04



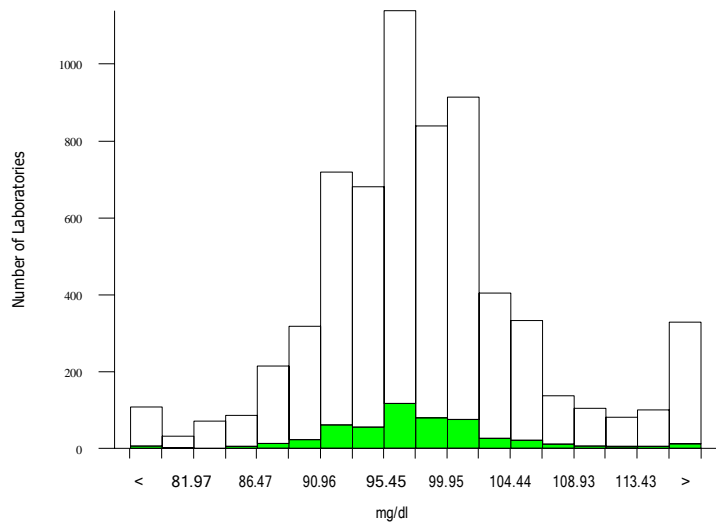
A ABC

Trig Total, mg/dl

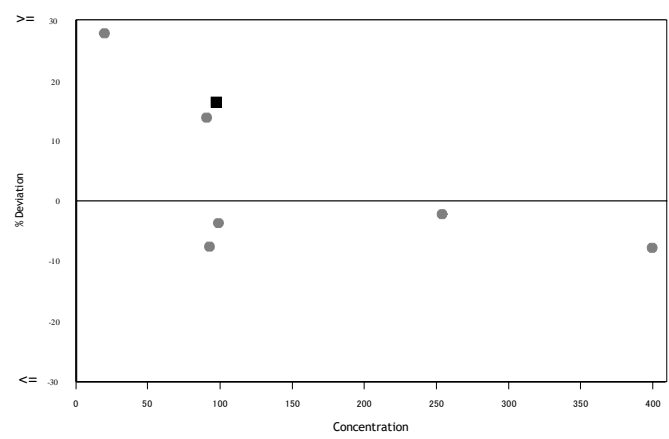
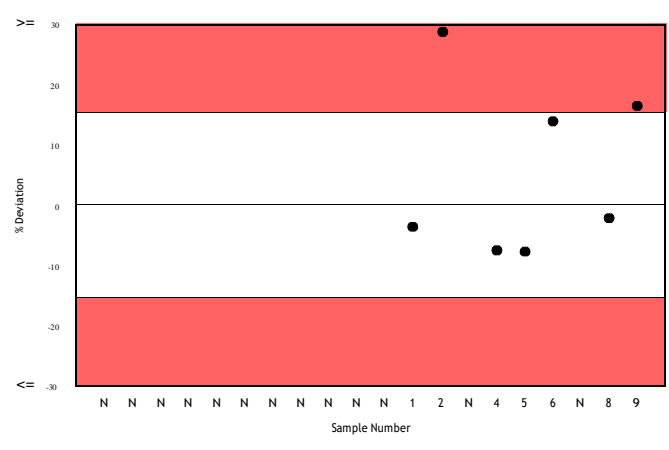
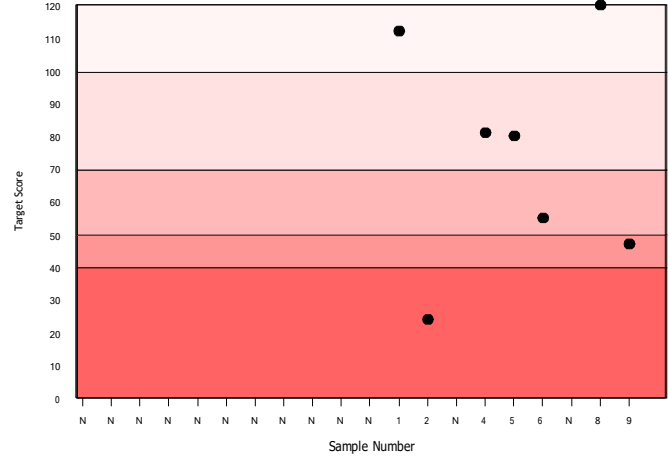
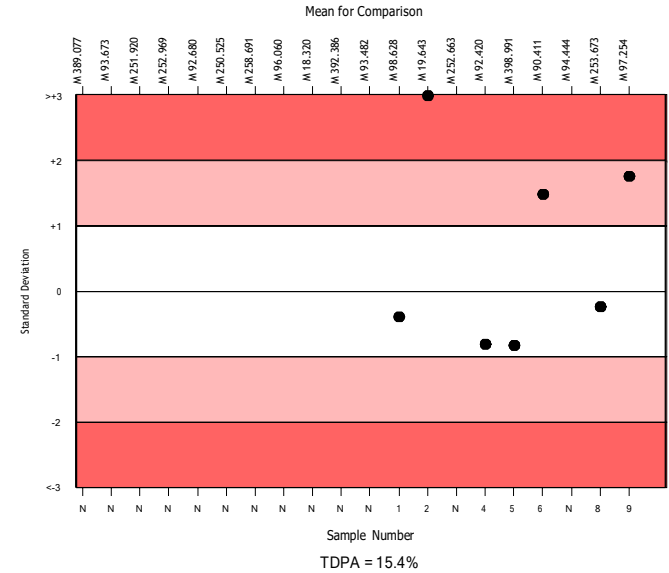
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6131	97.704	6.1	0.09	9.14	470
Lipase/GK UV. no correction	490	97.254	4.8	0.26	9.10	31
Tulip Coralyzer 200	1	113.200	0.0	0.00	N/A	0

▲ Your Result	113.200	SDI	1.75
		RMSDI	Too Few
■ Mean for Comparison	97.254	TS	47
		RMTS	Too Few
		%DEV	16.4
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	15.40%
TS & %DEV outside limits	



Method	N	Mean	CV%	U _m
Lipase/GPO-PAP no correction	4515	97.329	5.6	0.10
Lipase/GK UV. no correction	490	97.254	4.8	0.26
Lipase/Glycerol Dehydrogenase	364	97.209	6.4	0.40
Lipase/GPO-PAP, 0.11mmol/l correction	288	97.765	5.0	0.36
Ortho Vitros MicroSlide Systems	211	115.922	3.8	0.37
Lipase/GK UV., 0.11 mmol/l correction	95	98.070	4.2	0.52
Agappe - GPO - TOPS	73	96.014	5.7	0.80
Siemens Dimension	67	93.504	4.2	0.60
Other Dry Chemistry	33	100.596	5.0	1.10
Vitros DT60/DT60 II/DTSC II	5	106.977	10.9	6.52

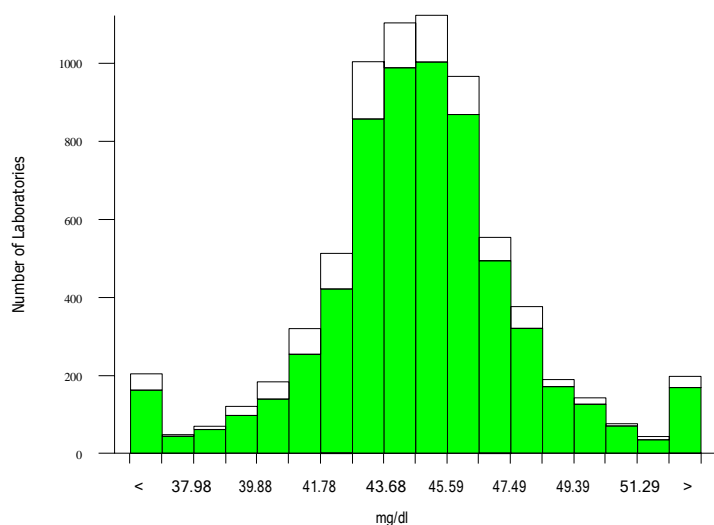


Urea, mg/dl

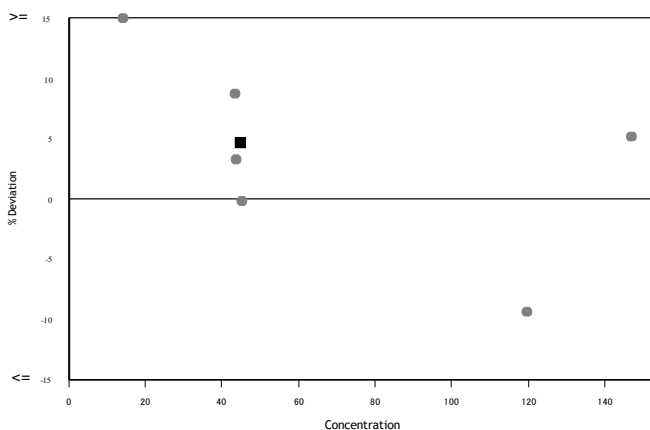
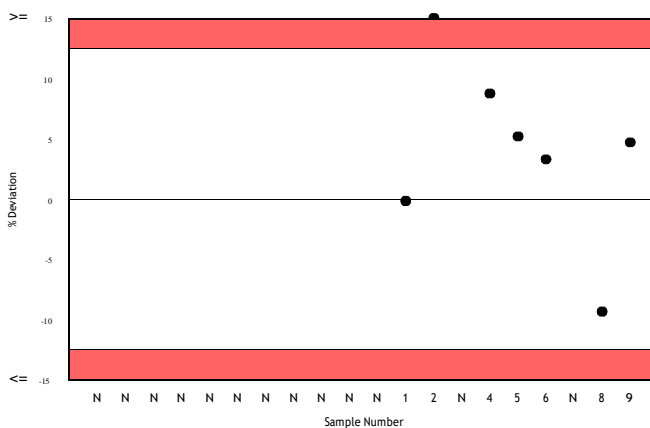
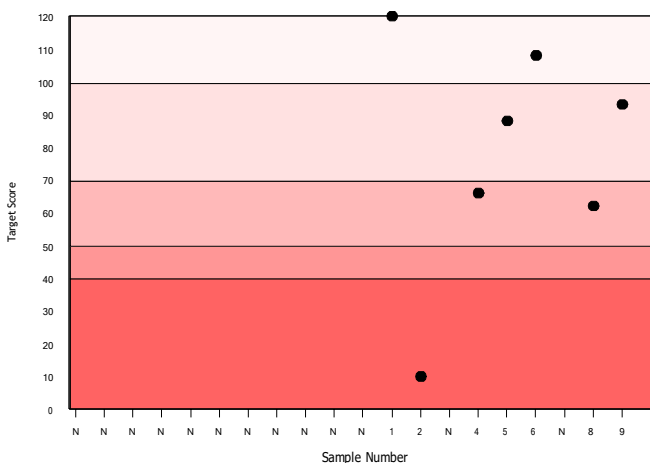
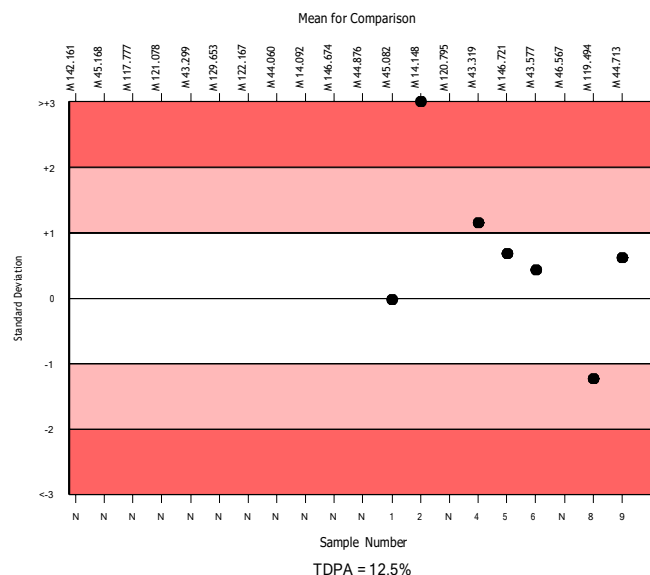
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6830	44.641	5.7	0.04	3.39	393
Urease, kinetic	5942	44.713	5.6	0.04	3.40	332
Tulip Coralyzer 200	2	44.400	7.6	3.00	4.51a	0

▲ Your Result	46.800	SDI RMSDI	0.61 Too Few
■ Mean for Comparison	44.713	TS RMTS	93 Too Few
		%DEV RM%DEV	4.7 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	5942	44.713	5.6	0.04
Urease, end point	392	44.740	5.7	0.16
Ortho Vitros MicroSlide Systems	220	42.604	3.4	0.12
Urease, hypochlorite	92	44.341	5.1	0.30
Agappe - UREASE GLDH	57	44.769	6.8	0.50
Other Dry Chemistry	42	44.993	3.1	0.27
Beckman - Conductivity	29	46.099	6.7	0.72
Agappe - BERTHELOT	12	44.723	6.5	1.04
Vitros DT60/DT60 II	4	43.939	1.1	0.29
Diacetyl monoxime	4	41.577	15.5	4.04
O-Phthalaldehyde	4	46.073	8.7	2.50



A

ABC

Uric Acid (Urate), mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6627	6.073	6.9	0.01	0.39	174
Uricase Perox. with ascorb. ox @ 546nm	1305	6.028	5.7	0.01	0.39	52
Tulip Coralyzer 200	2	6.400	13.2	0.75	0.85a	0

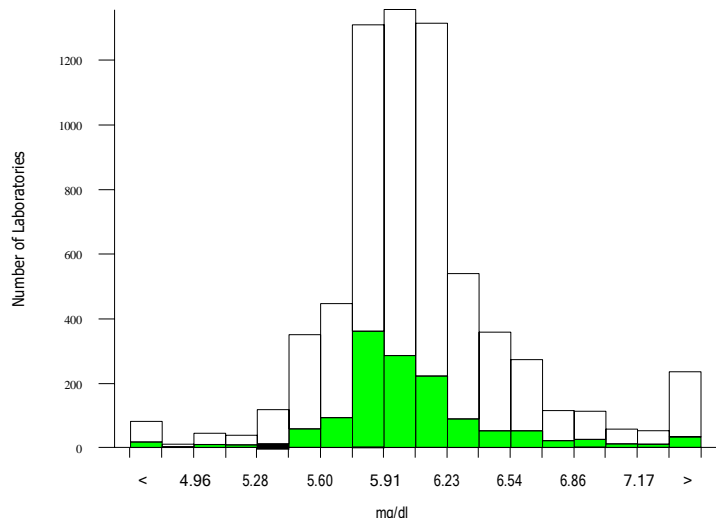
▲ Your Result	7.000	SDI	2.50
		RMSDI	Too Few
■ Mean for Comparison	6.028	TS	32
		RMTS	Too Few
		%DEV	16.1
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation: N/A

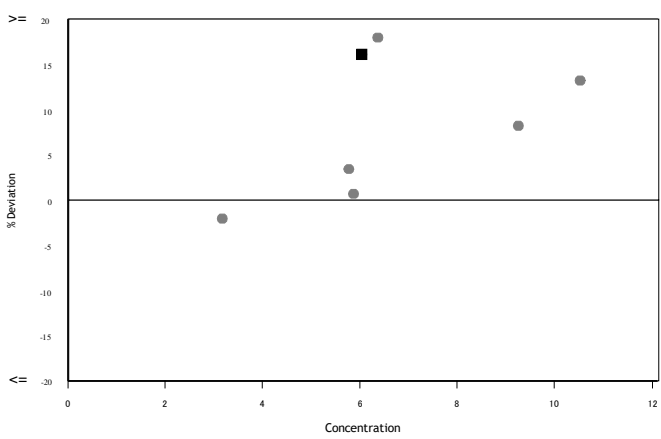
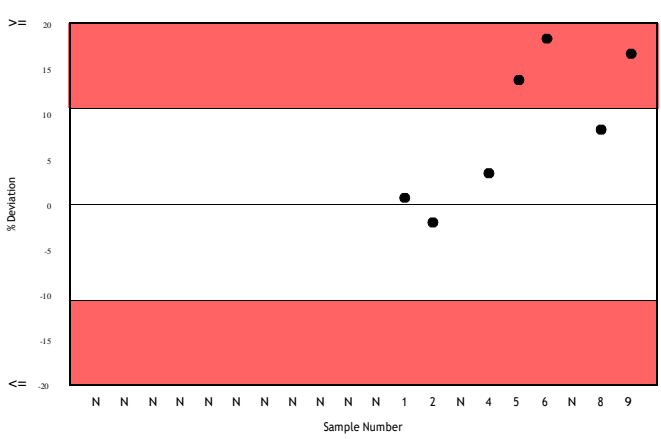
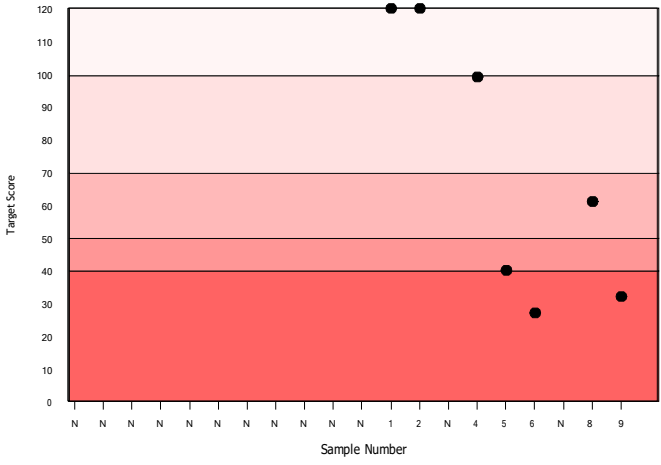
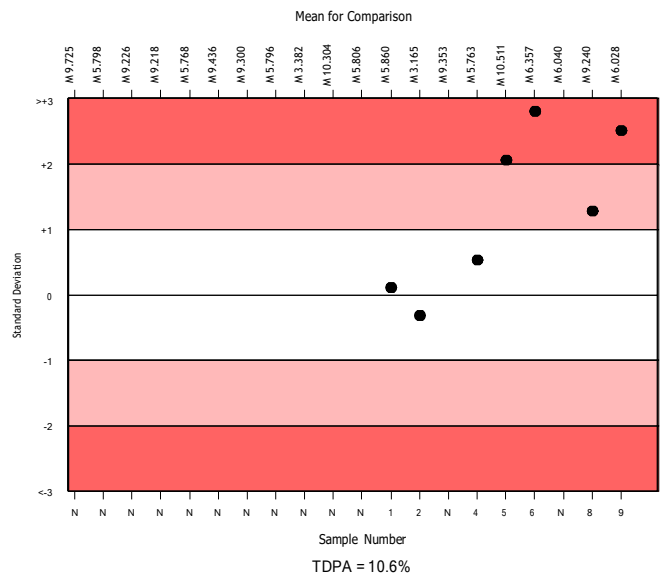
Acceptable limits of performance for RIQAS: 10.60%

SDI in bottom 5% of peer group

TS & %DEV outside limits



Method	N	Mean	CV%	U _m
Uricase perox. no ascorb. ox.	2660	6.061	6.3	0.01
Uricase Perox. with ascorb. ox	1870	6.103	5.5	0.01
Uricase Perox. with ascorb. ox @ 546nm	1305	6.028	5.7	0.01
Ortho Vitros MicroSlide Systems	220	5.750	2.8	0.01
Uricase @ 293 nm	190	5.944	2.6	0.01
Uricase, catalase 340nm.	110	5.986	2.9	0.02
Agappe - URICASE - PAP	42	6.497	6.1	0.07
Other Dry Chemistry	23	6.334	3.3	0.05
Agappe - URICASE - TOPS	21	6.447	5.4	0.09
Reduction methods	13	6.226	6.3	0.14
Vitros DT60/DT60 II	5	5.707	2.1	0.07



A ABC

Analyte	Mean for Comparison	Your Result	SDI	RMSDI	%DEV	RM%DEV	TS	RMTS	Performance
Albumin	4.099	4.040	-0.26	Too Few	-1.4	Too Few	120	Too Few	
Alkaline Phosphatase	187.093	194.800	0.37	Too Few	4.1	Too Few	115	Too Few	
ALT (GPT)	39.381	38.600	-0.22	Too Few	-2.0	Too Few	120	Too Few	
AST (GOT)	40.865	37.100	-1.02	Too Few	-9.2	Too Few	71	Too Few	
Bilirubin, Direct	1.059	1.070	0.07	Too Few	1.0	Too Few	120	Too Few	
Bilirubin, Total	1.676	1.880	1.26	Too Few	12.2	Too Few	62	Too Few	
Calcium	8.958	8.950	-0.02	Too Few	-0.1	Too Few	120	Too Few	
Chloride	97.339	No Result		Too Few		Too Few		Too Few	
Cholesterol	159.339	149.300	-1.21	Too Few	-6.3	Too Few	63	Too Few	
Creatinine	1.547	1.510	-0.31	Too Few	-2.4	Too Few	120	Too Few	
Glucose	111.279	122.900	<u>2.00</u>	Too Few	<u>10.4</u>	Too Few	<u>41</u>	Too Few	
HDL-Cholesterol	49.848	61.410	1.81	Too Few	<u>23.2</u>	Too Few	<u>46</u>	Too Few	
Magnesium	0.966	No Result		Too Few		Too Few		Too Few	
Phosphate, Inorganic	4.674	No Result		Too Few		Too Few		Too Few	
Potassium	3.984	No Result		Too Few		Too Few		Too Few	
Protein, Total	5.894	6.420	1.69	Too Few	<u>8.9</u>	Too Few	<u>49</u>	Too Few	
Trig Total	97.254	113.200	1.75	Too Few	<u>16.4</u>	Too Few	<u>47</u>	Too Few	
Urea	44.713	46.800	0.61	Too Few	4.7	Too Few	93	Too Few	
Uric Acid (Urate)	6.028	6.100	<u>1.50</u>	Too Few	<u>1.19</u>	Too Few	<u>32</u>	Too Few	

ORMSDI N/A

ORM%DEV N/A

ORMTS N/A

END OF REPORT

A

ABC

Unique Wellness Care

MONTHLY CLINICAL CHEMISTRY

CYCLE 19 SAMPLE 10

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

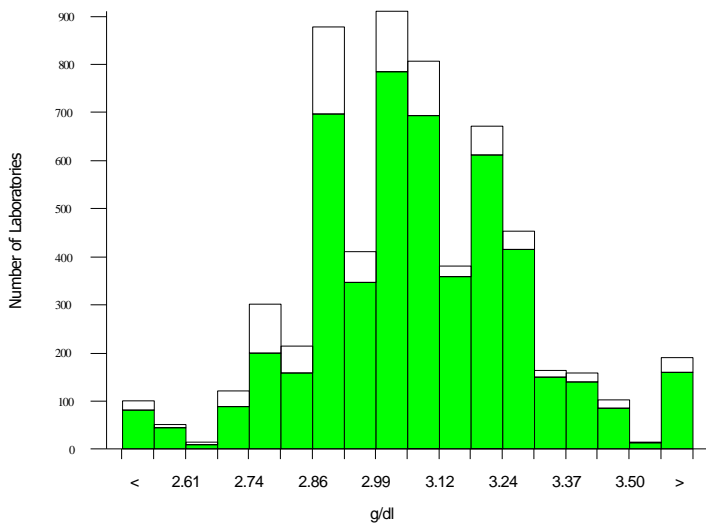
Issue Date: 04/11/2022

Albumin, g/dl

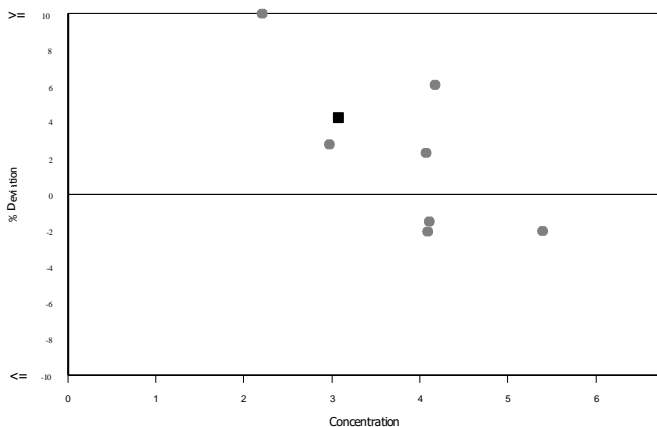
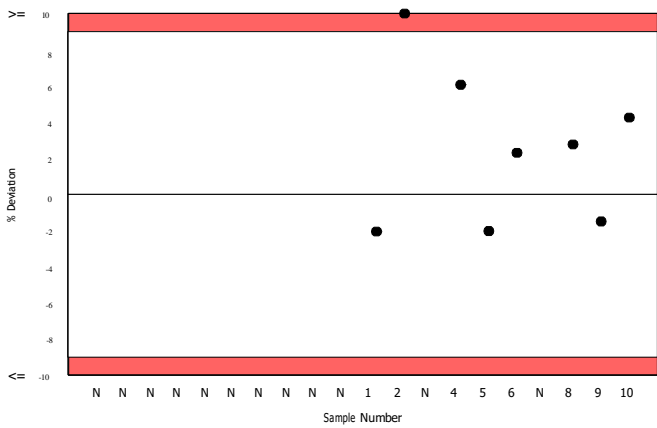
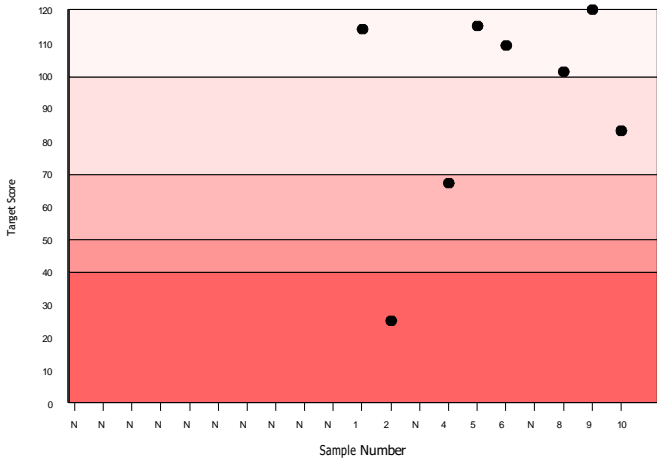
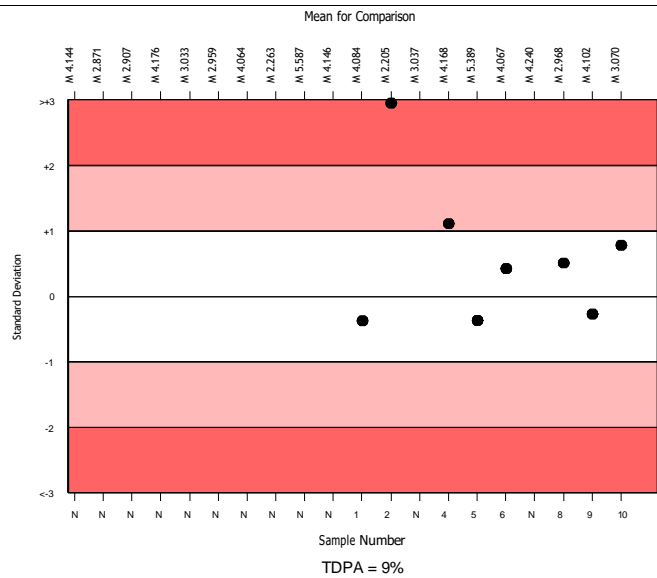
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5511	3.057	5.5	0.00	0.17	424
Bromocresol Green	4677	3.070	5.4	0.00	0.17	350
Tulip Coralyzer 200	2	3.150	2.2	0.06	0.18a	0

▲ Your Result	3.200	SDI	0.78
		RMSDI	Too Few
■ Mean for Comparison	3.070	TS	83
		RMST	Too Few
		%DEV	4.2
		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	4677	3.070	5.4	0.00
Bromocresol Purple	498	2.916	4.5	0.01
Ortho Vitros MicroSlide Systems	208	3.037	3.6	0.01
Agappe - Bromocresol Green	54	3.281	4.4	0.02
Turbidimetric Assays	34	3.070	6.0	0.04
Other Dry Chemistry	34	3.524	5.0	0.04
Nephelometric Assays	5	2.946	7.2	0.12
Vitros DT60/DT60 II/DTSC II	3	3.087	5.3	0.12
Electrophoresis	3	3.053	7.7	0.17



A

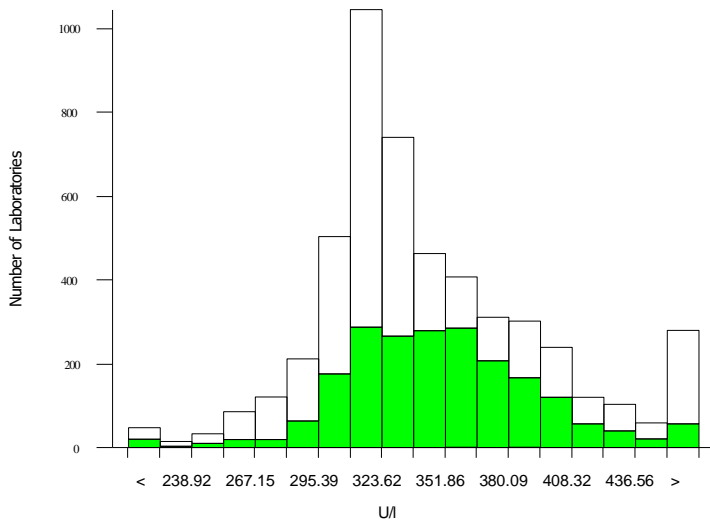
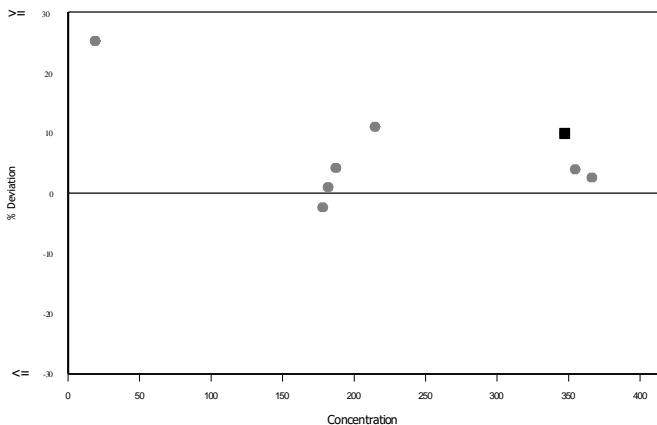
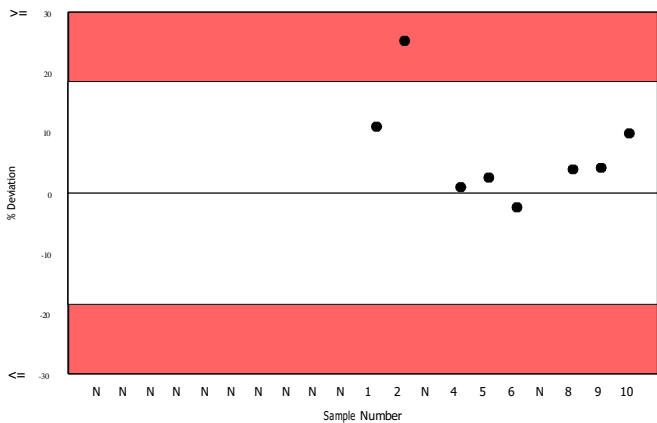
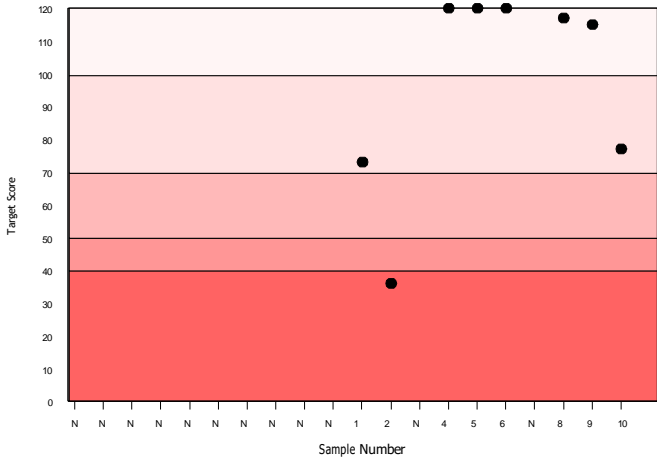
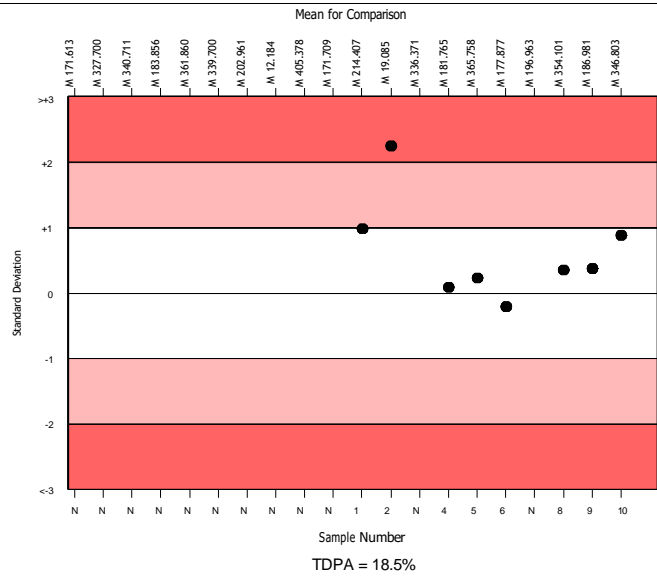
ABC

Alkaline Phosphatase, U/l @ 37°C

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4665	337.744	11.1	0.69	37.99	421
AMP optimised to IFCC	1934	346.803	9.5	0.94	39.01	163
Tulip Coralyzer 200	2	367.050	5.4	17.56	44.86a	0

▲ Your Result	381.100	SDI	0.88
		RMSDI	Too Few
■ Mean for Comparison	346.803	TS	77
		RMTS	Too Few
		%DEV	9.9
		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	1934	346.803	9.5	0.94
Roche AMP buffer IFCC	1181	318.560	3.8	0.44
Diethanolamine buffer, DEA	453	430.718	14.5	3.66
Ortho Vitros MicroSlide Systems	233	278.273	6.0	1.38
Siemens/Dade Dimension AMP buffer	220	315.152	3.2	0.84
AMP non-optimised	203	343.211	8.0	2.40
Colorimetric	132	337.284	12.5	4.59
Beckman AMP (Calibrator)	122	382.504	5.1	2.22
Other AMP kits	53	335.789	5.6	3.26
Agappe - DGKC-SCE	44	422.733	6.5	5.17
Other Dry Chemistry	31	372.339	8.6	7.19
Beckman AMP (Extinction Coeff)	19	377.436	4.4	4.72
AMP optimised to NVKC/SFBC	8	349.889	10.4	16.02
AMPD optimised to JSCC	5	354.600	3.8	7.50
Tris/carbonate buffer	4	327.675	9.3	19.06
Vitros DT60/DT60 II/DTSC II	3	268.667	9.6	18.52
Fuji Dri-Chem JSCC	3	361.473	8.6	22.56

A

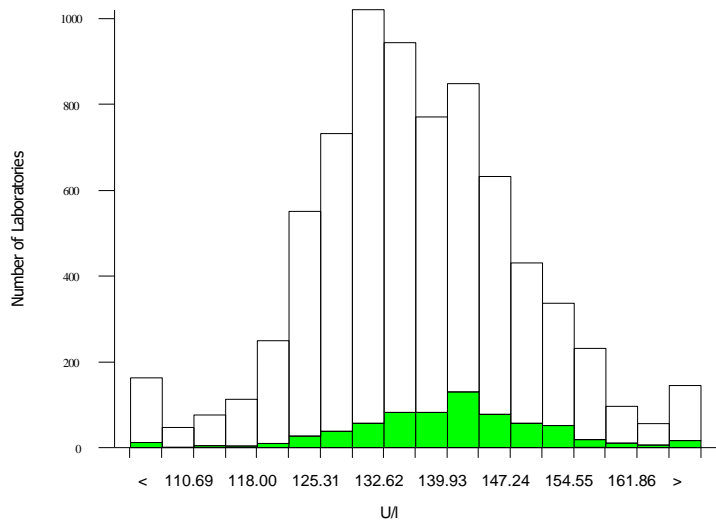
ABC

ALT (GPT), U/I @ 37°C

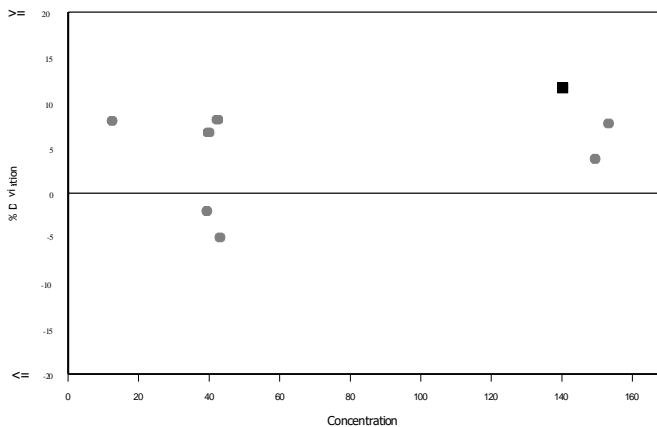
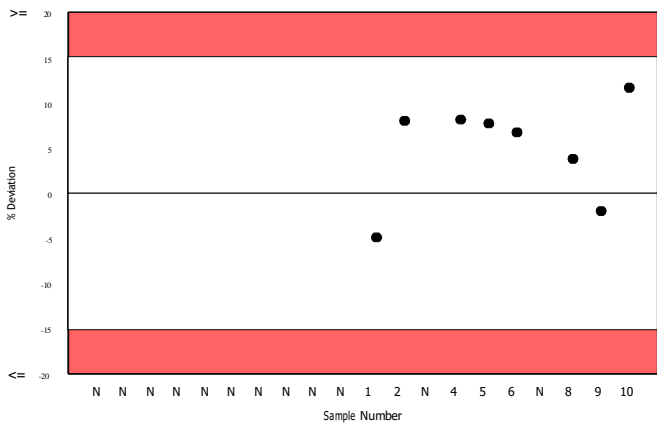
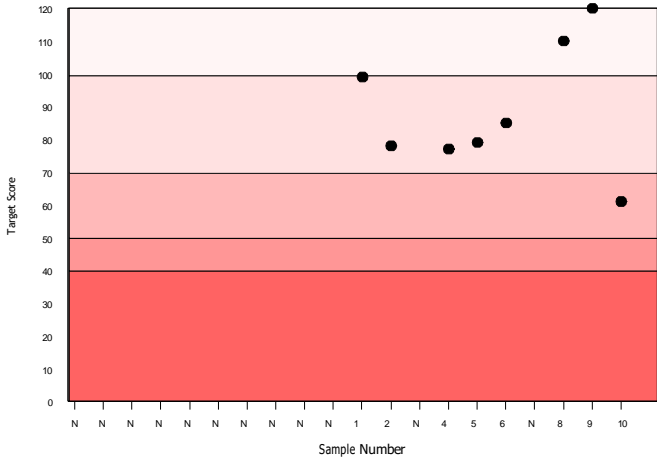
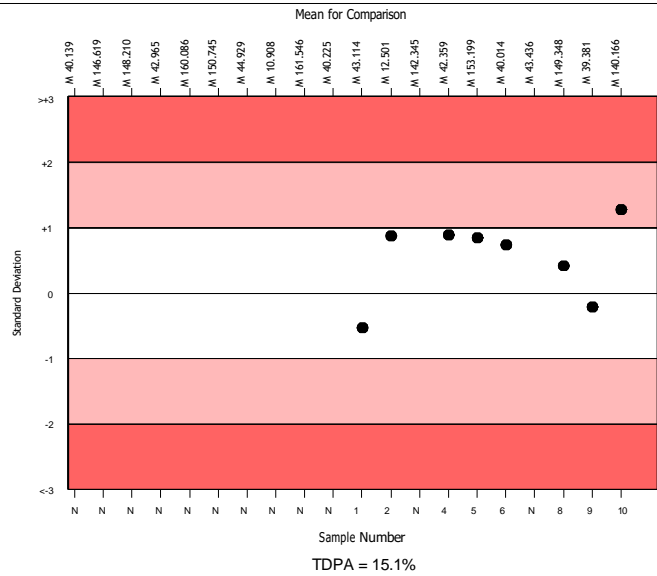
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6911	136.278	7.2	0.15	12.51	526
Tris buffer with P5P	634	140.166	6.1	0.42	12.87	54
Tulip Coralyzer 200	1	156.500	0.0	0.00	N/A	0

▲ Your Result	156.500	SDI	1.27
		RMSDI	Too Few
■ Mean for Comparison	140.166	TS	61
		RMTS	Too Few
		%DEV	11.7
		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	4625	134.547	7.6	0.19
Beckman Mod. IFCC Ref. without P5P	841	139.470	4.0	0.24
Tris buffer with P5P	634	140.166	6.1	0.42
Ortho Vitros MicroSlide Systems	175	133.814	4.2	0.53
Siemens/Dade standard nonIFCC correlated	168	145.878	4.0	0.57
Beckman IFCC Ref. with P5P	110	140.317	4.7	0.79
Agappe - IFCC	82	149.780	7.7	1.60
Ortho Vitros MicroSlide visible	67	133.996	4.1	0.84
Colorimetric	59	137.446	8.5	1.90
Other Dry Chemistry	43	134.614	4.7	1.20
Phosphate buffer, DGKC	31	142.056	6.6	2.11
Tris buffer with P5P, NVKC	22	138.659	6.9	2.56
Tris buffer, SCE	18	133.384	10.9	4.29
Beckman (Extinction Coefficient)	11	141.780	8.4	4.50
Vitros DT60/DT60 II/DTSC II	4	142.750	8.2	7.35



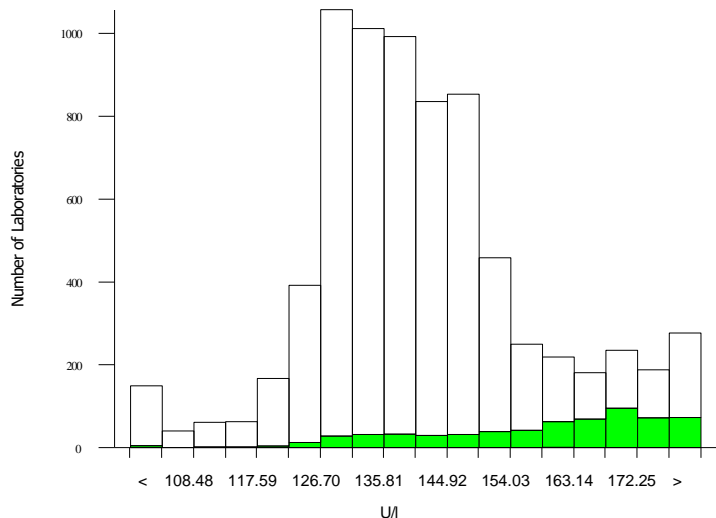
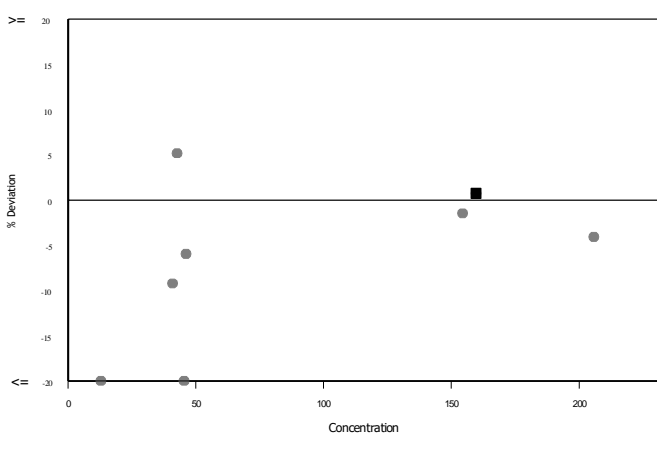
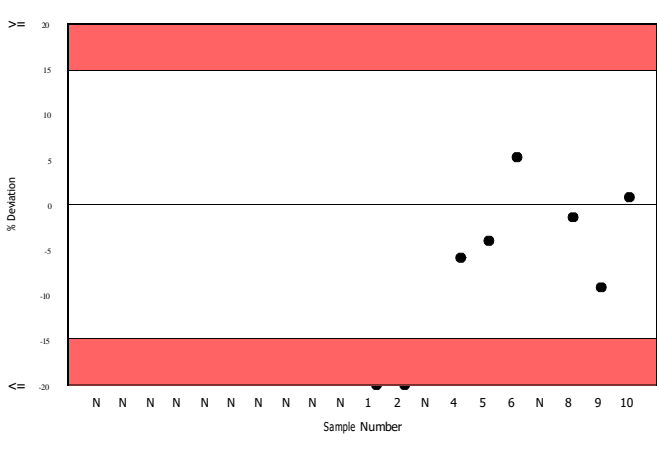
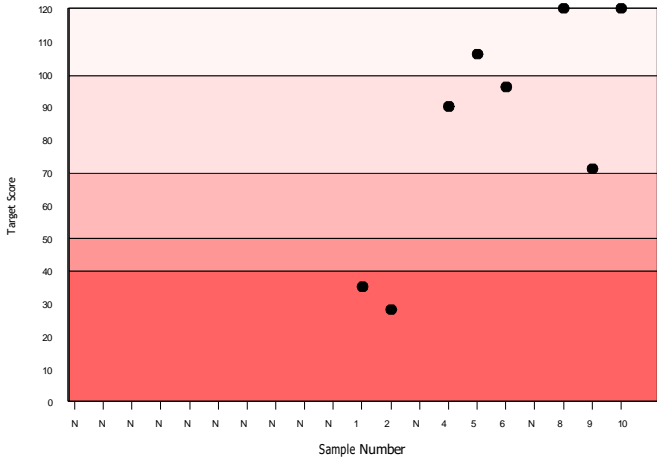
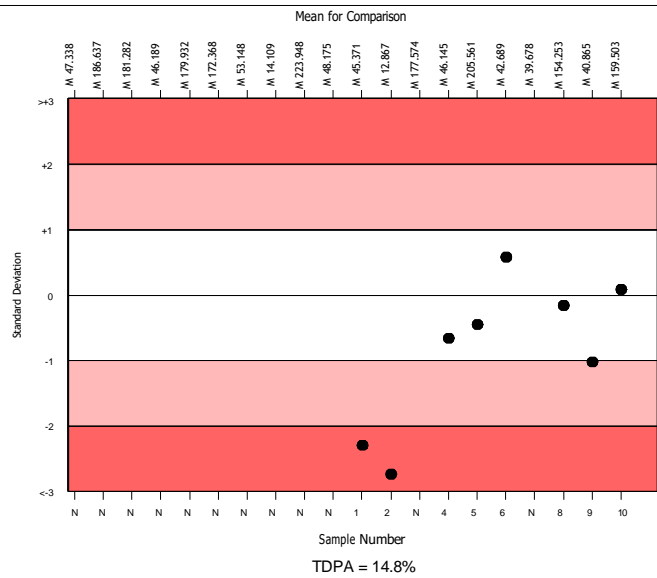
A ABC

AST (GOT), U/I @ 37°C

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6742	140.369	8.7	0.18	12.63	688
Tris buffer with P5P	604	159.503	9.7	0.79	14.35	30
Tulip Coralyzer 200	1	160.700	0.0	0.00	N/A	0

▲ Your Result	160.700	SDI	0.08
		RMSDI	Too Few
■ Mean for Comparison	159.503	TS	120
		RMTS	Too Few
		%DEV	0.8
		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	4566	136.600	6.9	0.17
Beckman Mod. IFCC Ref. without P5P	841	143.749	3.5	0.22
Tris buffer with P5P	604	159.503	9.7	0.79
Ortho Vitros MicroSlide visible	234	174.471	3.6	0.51
Siemens/Dade standard non IFCC corr.	174	165.153	5.8	0.90
Beckman IFCC Ref. with P5P	96	143.842	5.6	1.03
Agappe - IFCC	77	140.065	5.3	1.05
Colorimetric	53	137.569	6.5	1.53
Other Dry Chemistry	42	138.864	2.6	0.70
Phosphate buffer, DGKC	26	139.813	8.6	2.93
Tris buffer with P5P, NVKC	23	133.617	9.0	3.15
Tris buffer, SCE	17	140.090	7.6	3.24
Beckman (Extinction Coefficient)	8	146.618	3.4	2.20
Vitros DT60/DT60 II/DTSC II	5	152.800	7.1	6.09

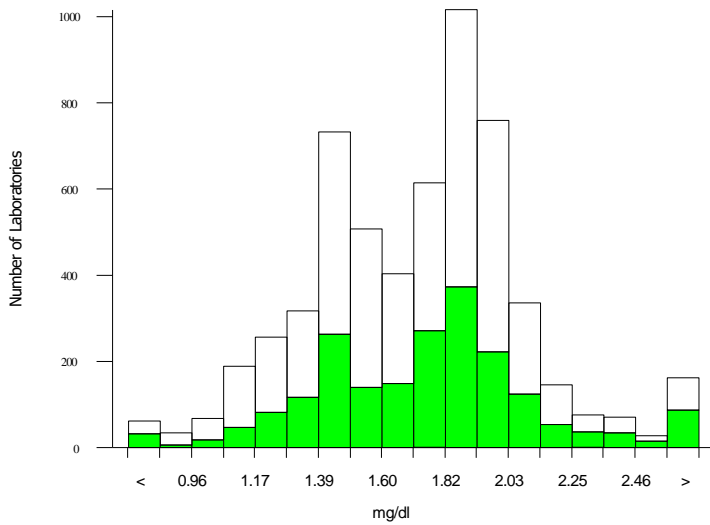
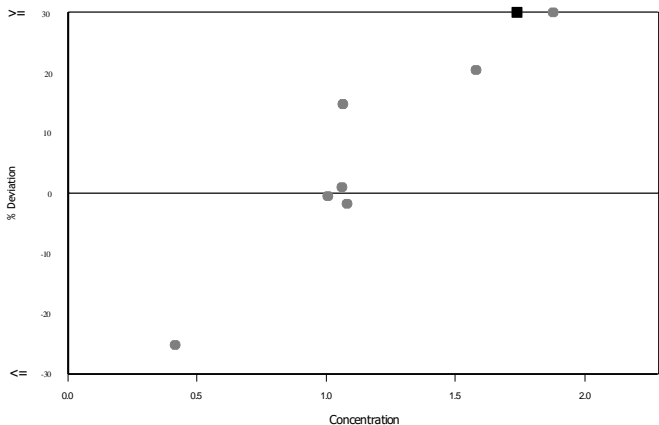
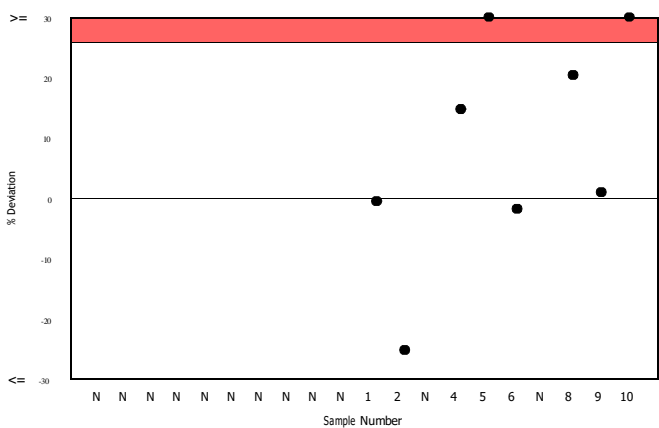
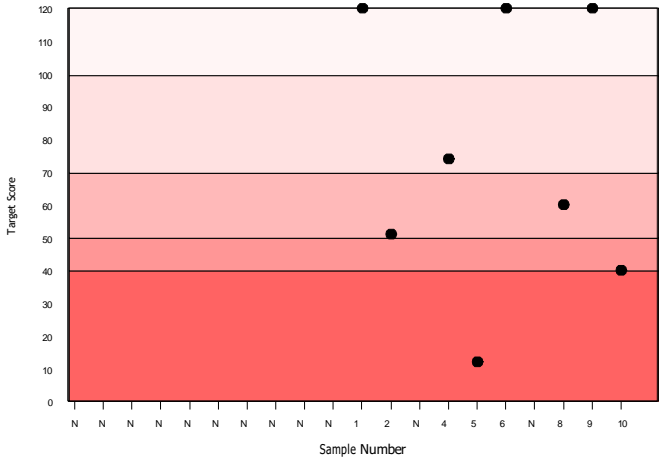
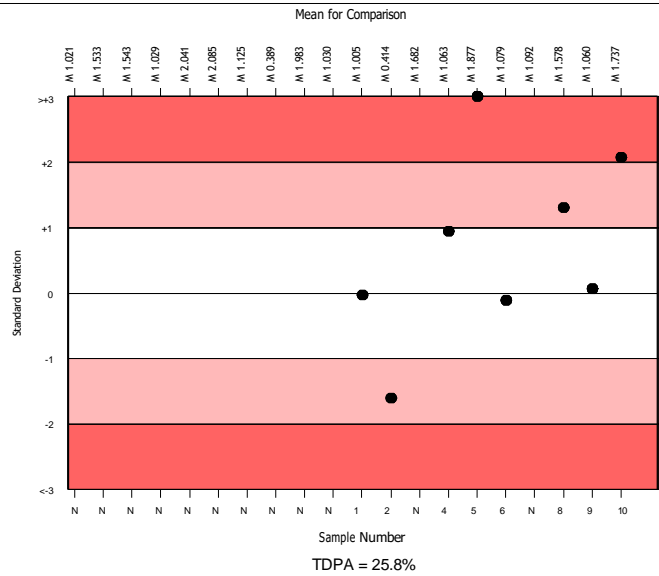
A ABC

Bilirubin, Direct, mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5367	1.716	16.7	0.00	0.27	409
Diazo with Sulphanilic Acid	1910	1.737	16.8	0.01	0.27	161
Tulip Coralyzer 200	2	2.040	18.0	0.32	0.46a	0

▲ Your Result	2.300	SDI	2.07
		RMSDI	Too Few
■ Mean for Comparison	1.737	TS	40
		RMTS	Too Few
		%DEV	32.4
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	25.80 %
SDI in bottom 5% of peer group	
TS & %DEV outside limits	



Method	N	Mean	CV%	U _m
Diazo with Sulphanilic Acid	1910	1.737	16.8	0.01
Dichlorophenyl Diazonium	1563	1.682	15.3	0.01
Diazo with Dichloroaniline	522	1.809	11.6	0.01
Roche DPD JG standardised	373	1.949	5.1	0.01
Oxidation to Biliverdin/Vanadate	332	1.824	8.0	0.01
Diazo/ Sulphanilic Siemens Dimension	259	1.172	5.9	0.01
Roche DPD Dumas standardised	181	1.781	11.5	0.02
Diazo/Sulphanilic Beckman DxC	102	1.410	10.5	0.02
Agappe - DIAZO	57	1.015	16.6	0.03
Other Dry Chemistry	33	2.381	11.6	0.06
Roche (US calibrator only)	5	1.910	4.4	0.05
Direct Spectrophotometry	3	1.820	13.5	0.18

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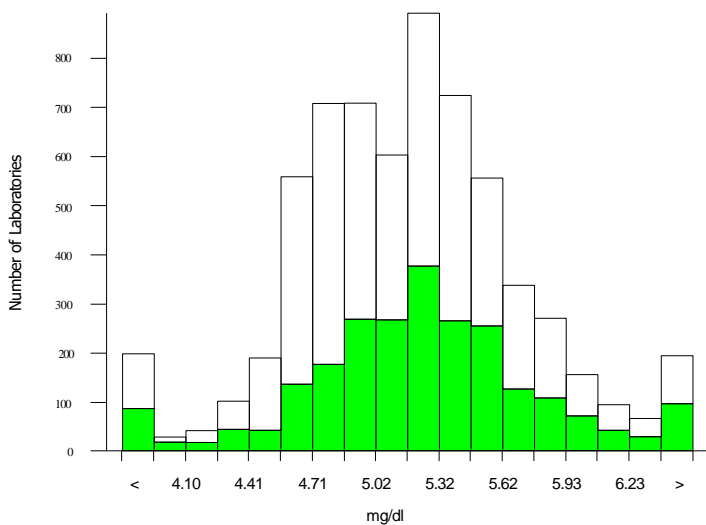
ABC

Bilirubin, Total, mg/dl

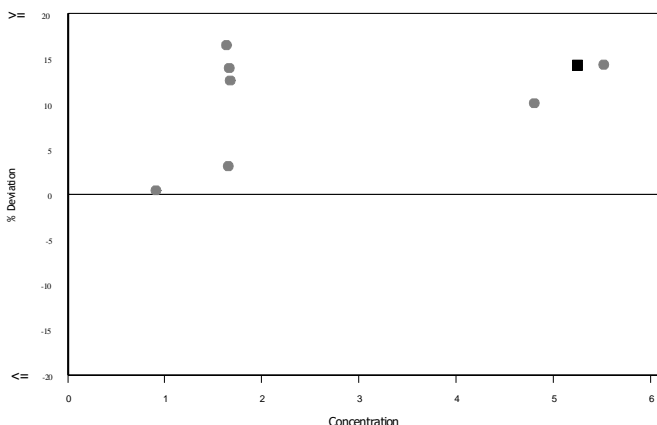
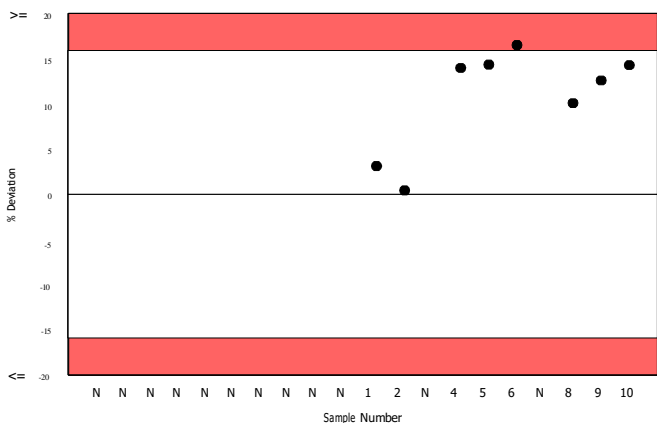
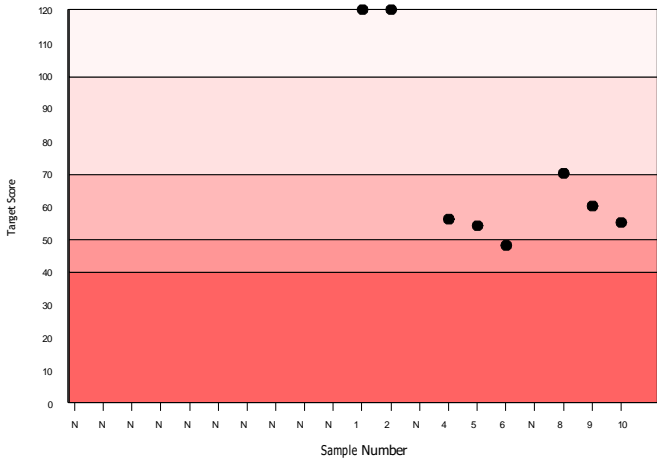
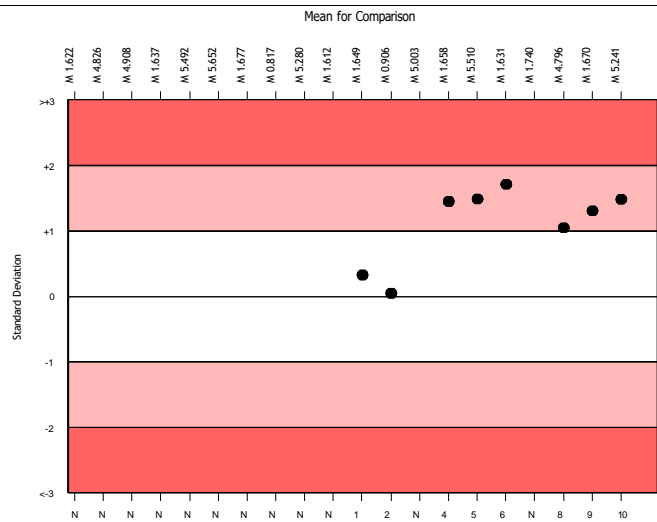
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5863	5.172	7.8	0.01	0.50	555
Diazo with Sulphanilic Acid	2182	5.241	7.7	0.01	0.51	239
Tulip Coralyzer 200	2	5.845	3.5	0.18	0.59a	0

▲ Your Result	5.990	SDI	1.48
		RMSDI	Too Few
■ Mean for Comparison	5.241	TS	55
		RMST	Too Few
		%DEV	14.3
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	15.90 %



Method	N	Mean	CV%	U _m
Diazo with Sulphanilic Acid	2182	5.241	7.7	0.01
Dichlorophenyl Diazonium	1298	4.945	6.2	0.01
Diazo with Dichloroaniline	540	5.376	7.2	0.02
Diazonium ion	546	4.972	6.9	0.02
DPD (Beckman AU)	533	5.321	3.2	0.01
Oxidation to Biliverdin/Vanadate	362	5.731	6.4	0.02
Ortho Vitros MicroSlide System Total Bil	209	4.770	5.9	0.02
Agappe - TAB	47	5.101	4.7	0.04
Other Dry Chemistry	43	4.879	5.0	0.05
Nitrobenzenediazonium Salt	27	5.132	5.0	0.06
Agappe - DMSO	13	5.496	11.5	0.22
Direct Spectrophotometry	6	5.312	11.2	0.30
Vitros DT60/DT60 II Total Bil	4	4.672	5.6	0.16
Assel - DMSO	3	6.210	0.5	0.02



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ABC

Calcium, mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4867	12.936	3.5	0.01	0.65	485
Arsenazo	2326	12.954	3.7	0.01	0.65	228
Tulip Coralyzer 200	2	12.565	10.5	1.17	1.33a	0

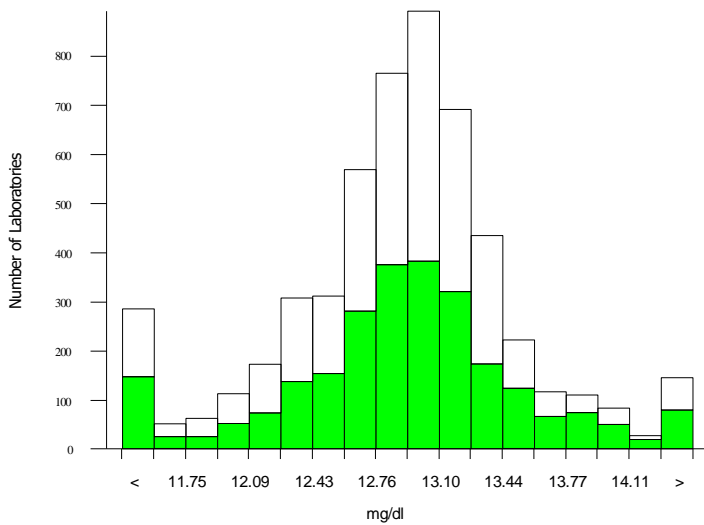
▲ Your Result	11.630	SDI RMSDI	-2.02 Too Few
■ Mean for Comparison	12.954	TS RMTS	41 Too Few
		%DEV RM%DEV	-10.2 Too Few

Acceptable limits derived from Biological Variation N/A

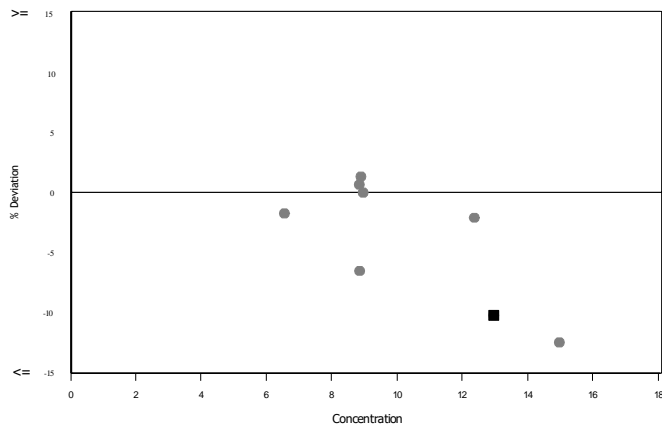
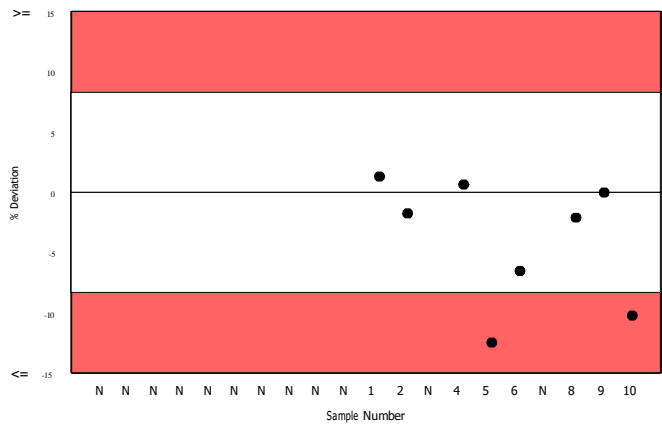
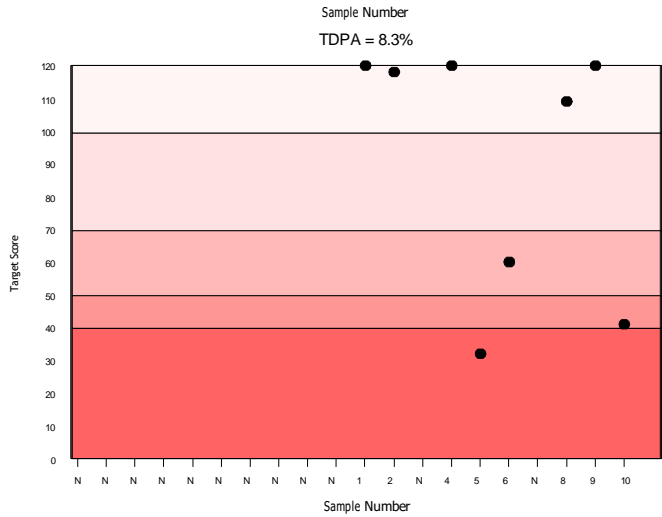
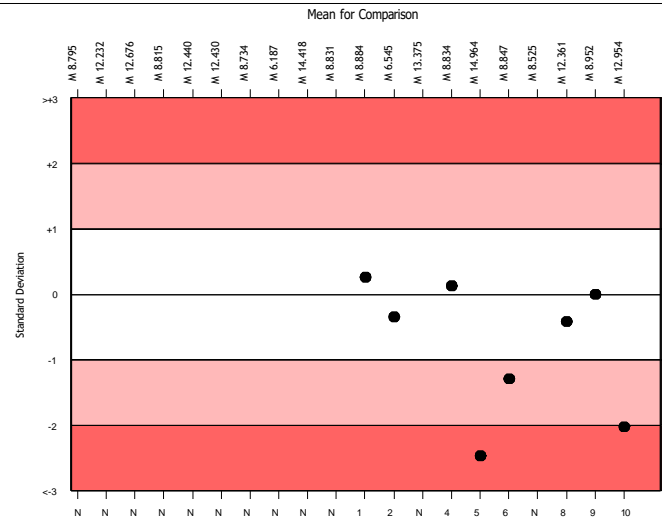
Acceptable limits of performance for RIQAS 8.30 %

SDI in bottom 5% of peer group

TS & %DEV outside limits



Method	N	Mean	CV%	U _m
Arsenazo	2326	12.954	3.7	0.01
Cresolphthalein complexone	1185	12.855	3.7	0.02
NM-BAPTA	904	13.057	1.8	0.01
Ortho Vitros MicroSlide Systems	215	12.540	2.5	0.03
Ion selective electrode	119	12.220	11.2	0.16
Agappe - ARSENAZO	40	13.270	4.5	0.12
Other Dry Chemistry	25	13.270	4.0	0.13
Phosphonazo	26	12.543	4.0	0.12
Methylthymol blue	12	12.969	4.2	0.19
Agappe - OCPC	5	12.730	6.9	0.49
Atomic absorption	2	13.260	1.1	0.12
Vitros DT60/DT60 II/DTSC II	2	12.700	3.3	0.37



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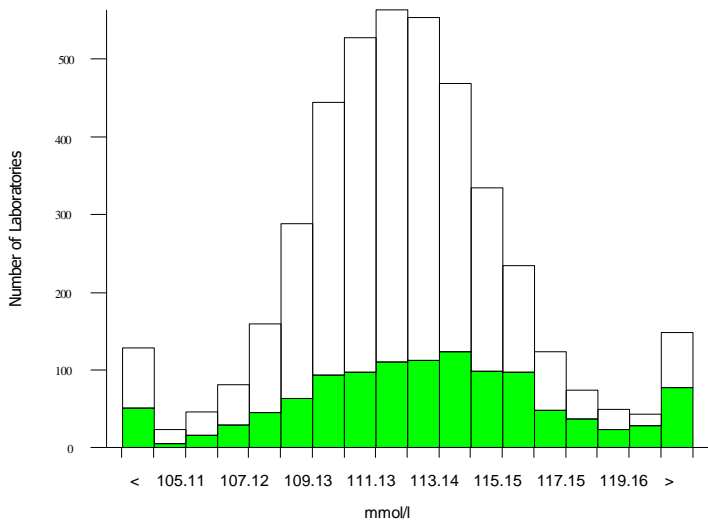
ABC

Chloride, mmol/l

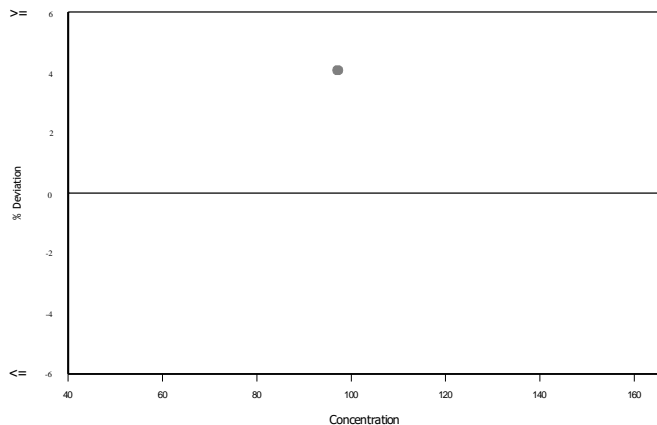
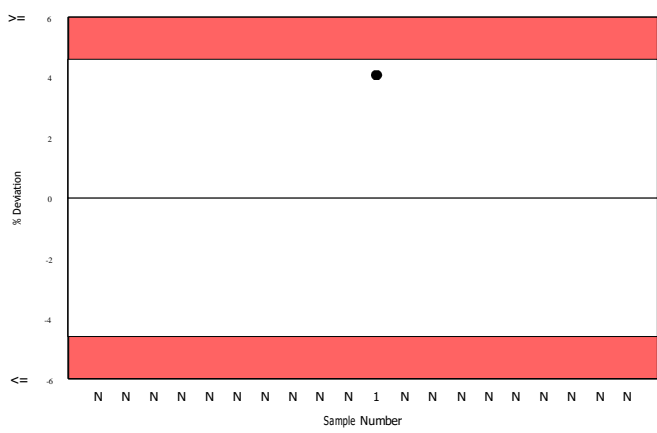
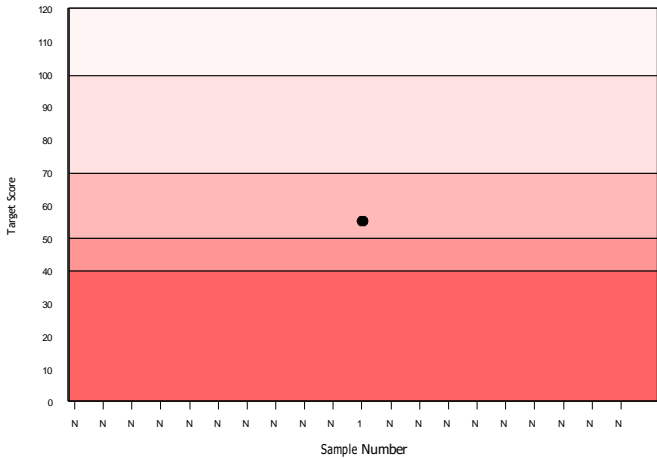
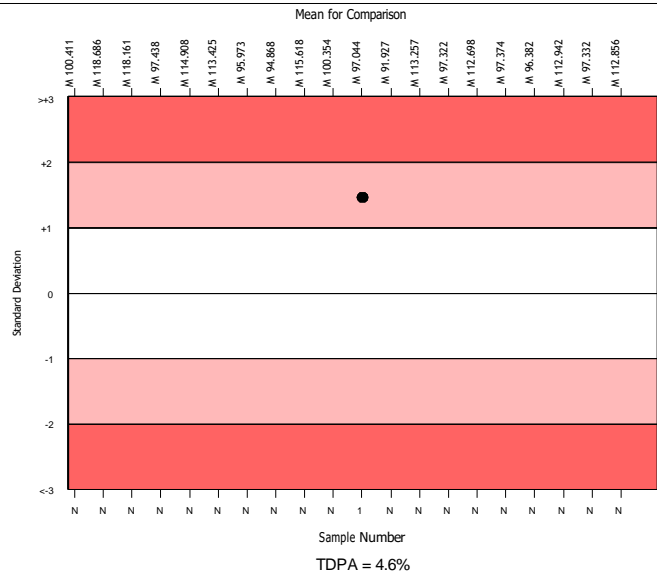
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3939	112.141	2.4	0.05	3.14	346
ISE, direct	1055	112.856	3.1	0.14	3.16	97
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	RMSDI	Too Few
■ Mean for Comparison	112.856	TS	RMTS	Too Few
		%DEV	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	2580	111.848	2.0	0.06
ISE, direct	1055	112.856	3.1	0.14
Ortho Vitros MicroSlide Systems	141	113.667	1.8	0.21
Colorimetric	110	110.421	2.9	0.38
Other Dry Chemistry	26	113.031	2.9	0.81
Agappe - THIOCYANATE	22	116.227	1.4	0.43
Optical Fluorescence	5	121.960	6.4	4.40



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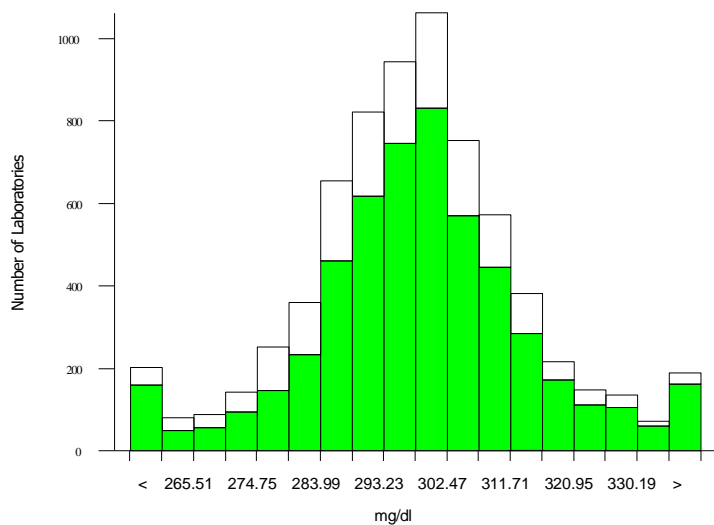
ABC

Cholesterol, mg/dl

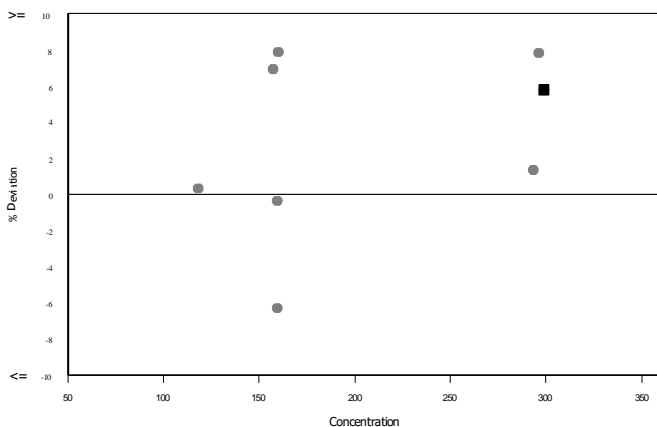
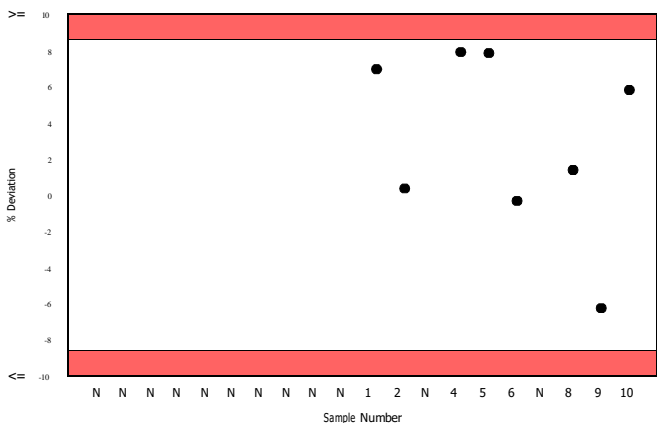
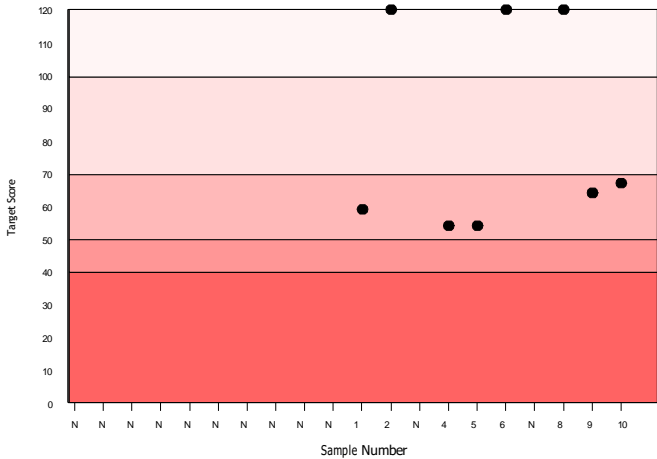
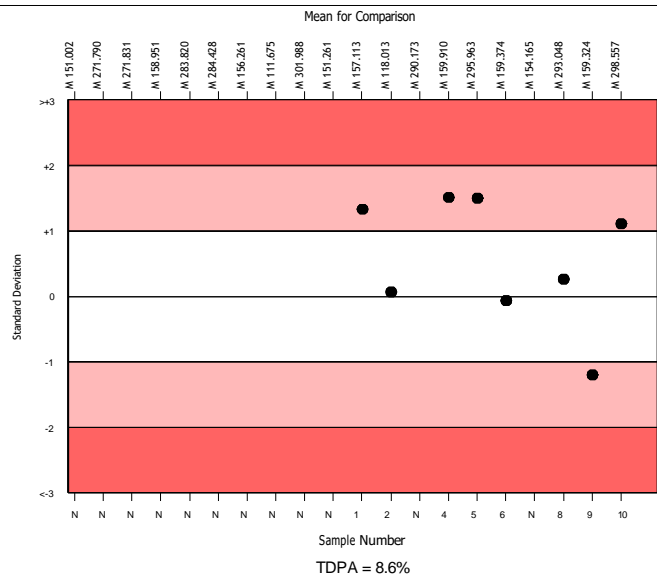
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6476	297.853	4.1	0.19	15.57	591
Cholesterol Oxidase - Abell Kendall	4837	298.557	4.0	0.22	15.61	461
Tulip Coralyzer 200	1	315.800	0.0	0.00	N/A	0

▲ Your Result	315.800	SDI	1.10
		RMSDI	Too Few
■ Mean for Comparison	298.557	TS	67
		RMST	Too Few
		%DEV	5.8
		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	4837	298.557	4.0	0.22
Cholesterol Oxidase - IDMS	878	301.597	3.5	0.44
Siemens Dimension	258	285.571	3.2	0.72
Ortho Vitros MicroSlide Systems	232	284.847	2.8	0.65
Cholesterol Dehydrogenase	140	299.824	5.2	1.65
Agappe - CHOD-PAP	79	299.124	4.5	1.90
Other Dry Chemistry	34	277.428	3.8	2.26
Dimension - non Siemens reagents	4	283.269	6.8	11.98
Vitros DT60/DT60 II/DTSC II	4	297.288	6.9	12.73



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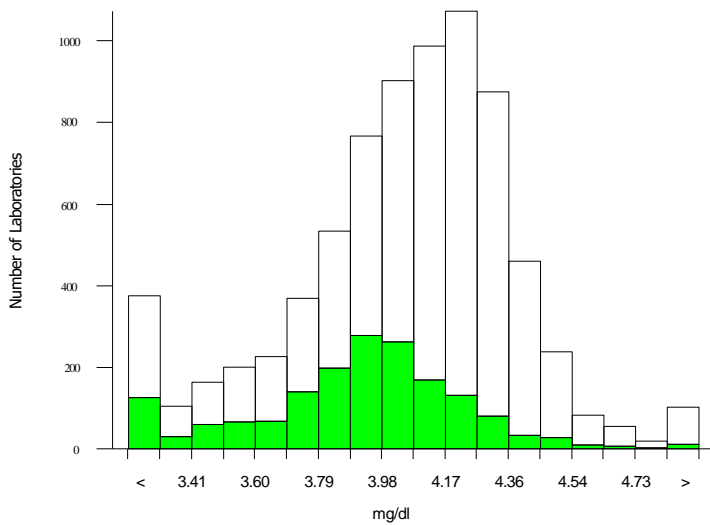
ABC

Creatinine, mg/dl

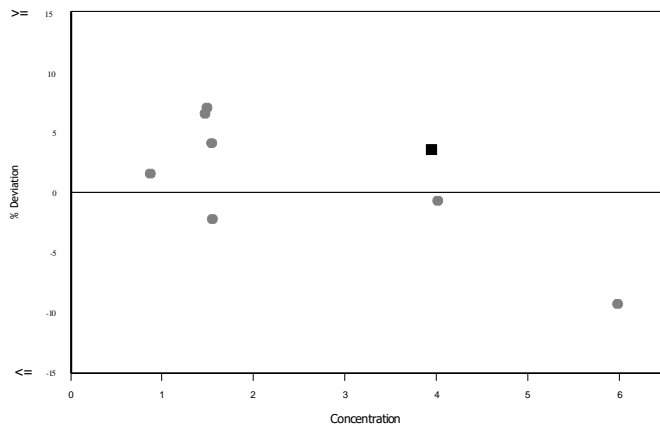
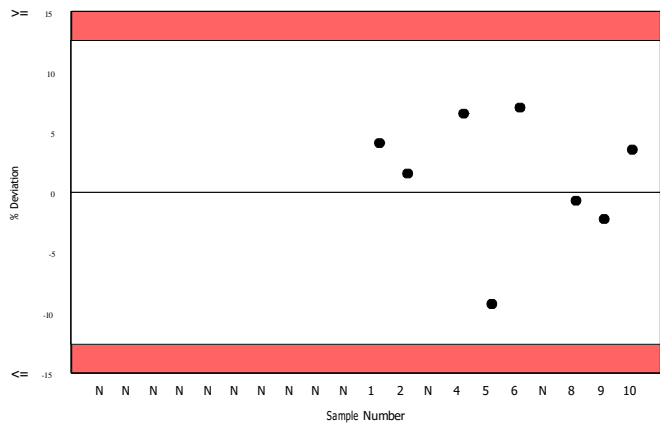
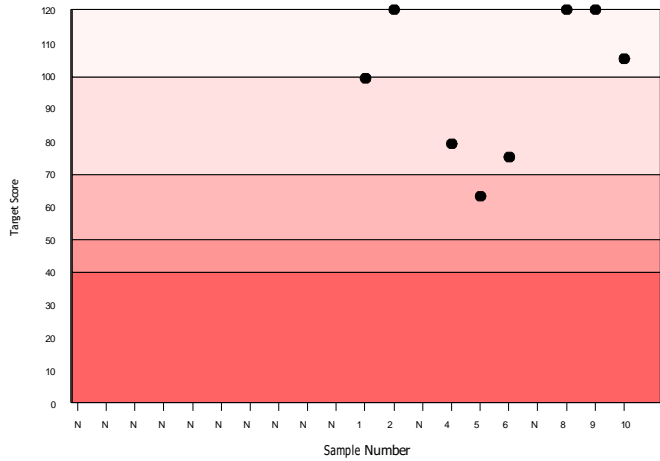
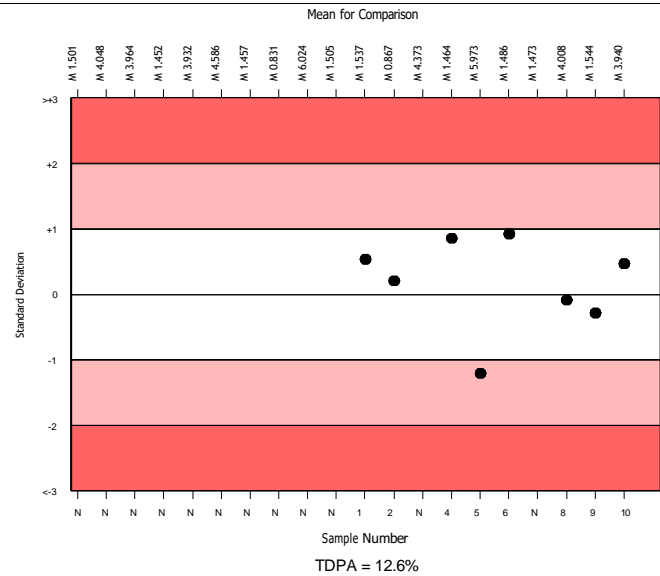
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6890	4.077	6.2	0.00	0.31	641
Jaffe rate blanked	1541	3.940	6.1	0.01	0.30	160
Tulip Coralyzer 200	1	4.080	0.0	0.00	N/A	0

▲ Your Result	4.080	SDI	0.46
		RMSDI	Too Few
■ Mean for Comparison	3.940	TS	105
		RMST	Too Few
		%DEV	3.5
		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	1960	4.045	7.5	0.01
Jaffe rate blanked	1541	3.940	6.1	0.01
Jaffe rate blanked comp. (-26umol/l)	814	4.138	3.8	0.01
Jaffe rate comp. (-18umol/l)	371	4.052	4.1	0.01
Enzymatic UV method (340nm)	351	4.193	4.6	0.01
Creatinine PAP method	338	4.179	5.3	0.01
Roche Creatinine Plus	333	4.260	3.3	0.01
IDMS traceable	314	4.110	4.8	0.01
Other enzymatic methods	290	4.276	3.7	0.01
Vitros, IDMS traceable	168	4.247	3.0	0.01
Alkaline picrate with deproteinisation	146	4.003	6.9	0.03
Other Dry Chemistry	70	4.021	6.4	0.04
Jaffe rate blanked comp. (-33umol/l)	63	3.809	8.1	0.05
Agappe - JAFFE'S KINETIC	52	3.547	7.8	0.05
Vitros DT60/D T60 II/DTSC II	31	4.207	2.5	0.02
Agappe - ENZYMATIC	25	3.781	11.0	0.10



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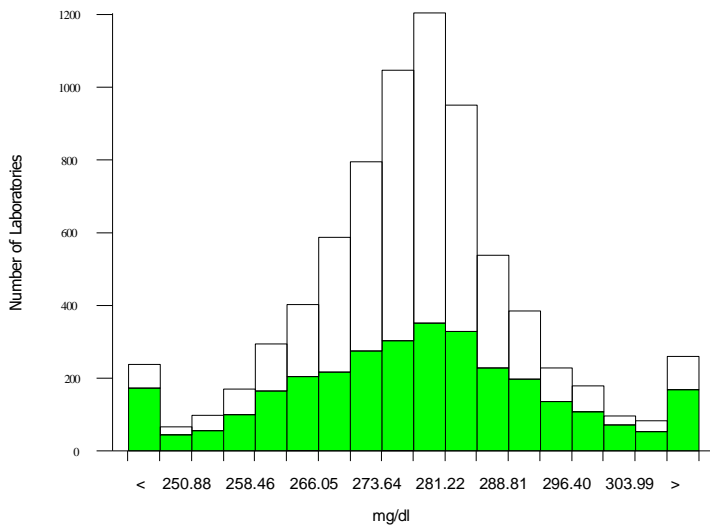
ABC

Glucose, mg/dl

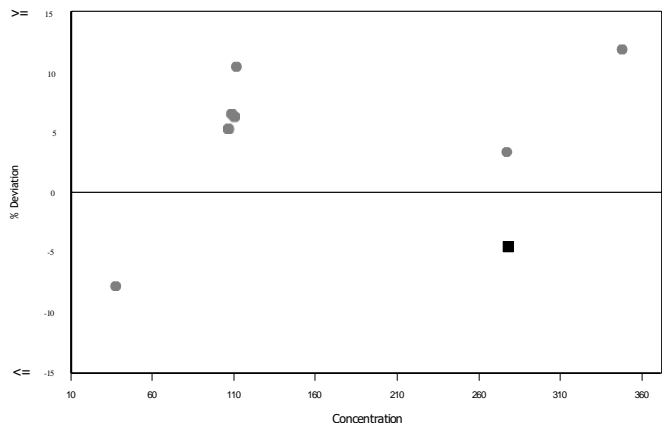
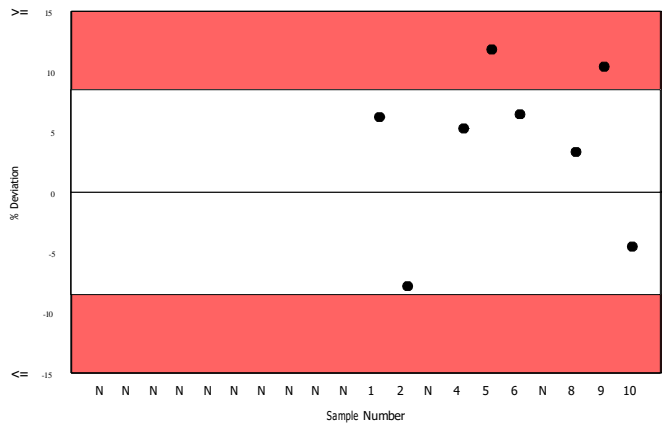
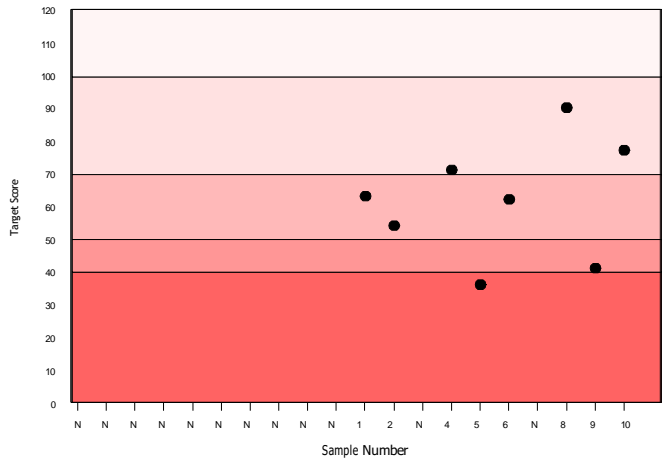
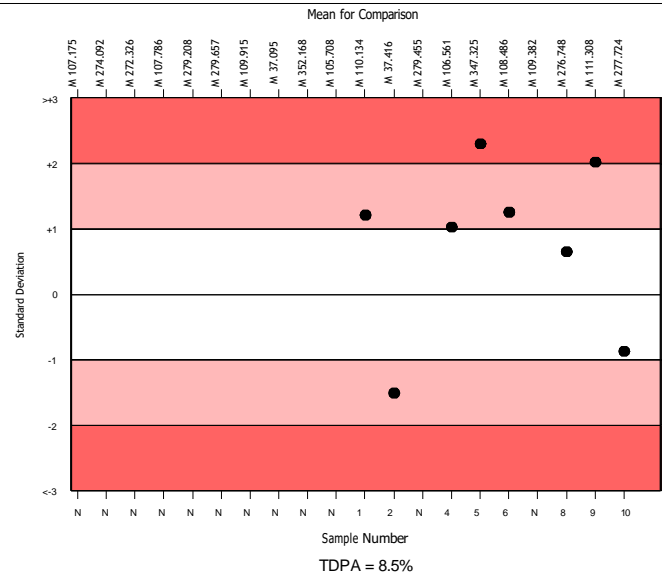
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6955	277.436	3.6	0.15	14.34	663
Glucose oxidase	2887	277.724	4.8	0.31	14.35	291
Tulip Coralyzer 200	2	269.600	2.3	5.50	14.98a	0

▲ Your Result	265.200	SDI RMSDI	-0.87 Too Few
■ Mean for Comparison	277.724	TS RMTS	77 Too Few
		%DEV RM%DEV	-4.5 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	3611	278.187	2.5	0.14
Glucose oxidase	2887	277.724	4.8	0.31
Ortho Vitros MicroSlide Systems	236	263.590	2.5	0.53
Agappe - GOD-PAP	76	282.262	4.3	1.75
Glucose dehydrogenase	69	277.027	5.0	2.07
Other Dry Chemistry	38	260.367	2.3	1.20
GOD/02-Beckman method	33	277.225	2.8	1.67
Oxygen electrode	11	265.234	8.4	8.36
Vitros, DT60/DT60 II	4	283.768	7.0	12.49



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ABC

HDL-Cholesterol, mg/dl

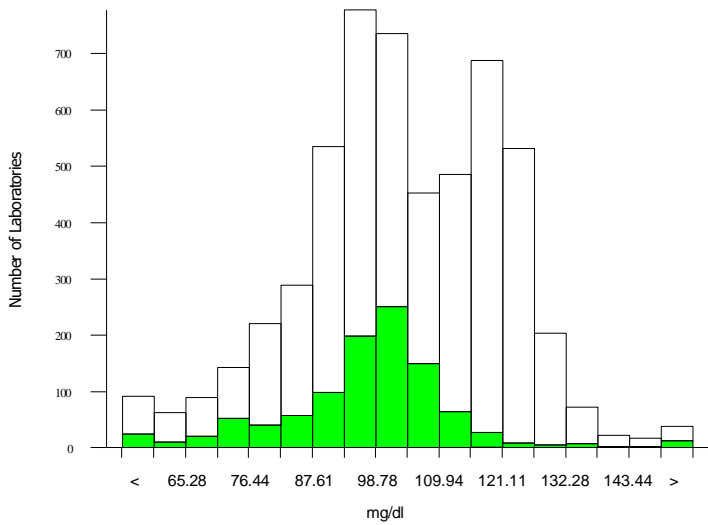
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5155	104.365	14.3	0.26	13.38	297
Direct HDL, Immunoseparation	945	97.877	10.9	0.43	12.55	80
Tulip Coralyzer 200	1	119.100	0.0	0.00	N/A	0

▲ Your Result	119.100	SDI	1.69
		RMSDI	Too Few
■ Mean for Comparison	97.877	TS	49
		RMTS	Too Few
		%DEV	21.7
		RM%DEV	Too Few

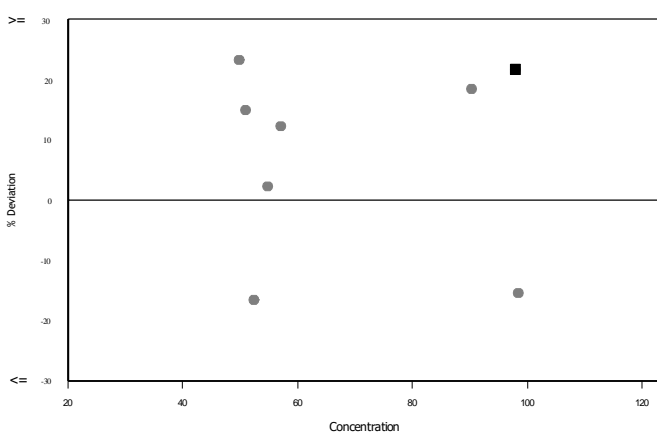
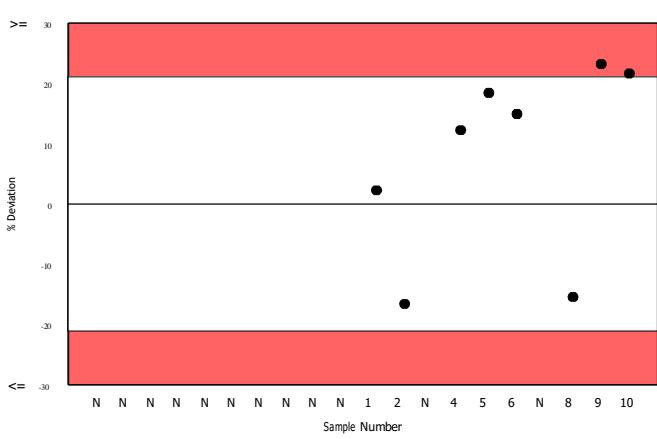
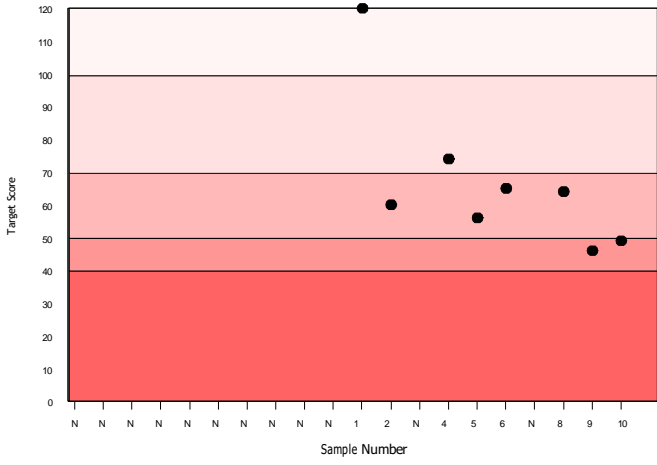
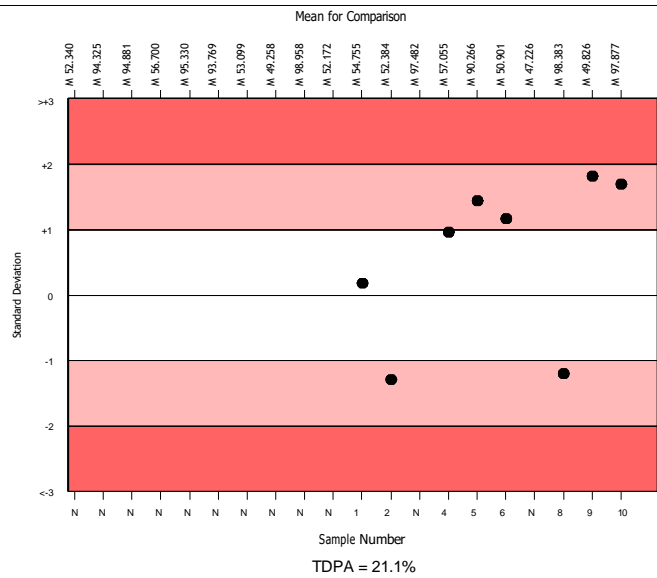
Acceptable limits derived from Biological Variation: N/A

Acceptable limits of performance for RIQAS: 21.10 %

TS & %DEV outside limits



Method	N	Mean	CV%	U _m
Direct HDL, Roche 4th gen.	1334	120.455	4.6	0.19
Direct HDL, Clearance method	1022	93.412	13.3	0.48
Direct HDL, Immunoseparation	945	97.877	10.9	0.43
HDL Ultra/Accel Selective Detergent	545	97.856	5.5	0.29
Direct HDL, PEGME	527	99.332	19.3	1.04
Direct HDL, PPD	341	103.463	10.8	0.75
Vitros dHDL, PTA/MgCl2 direct precip.	176	92.632	6.7	0.58
Agappe - SELECTIVE INHIBITION	63	119.016	7.3	1.37
Other Dry Chemistry	44	98.862	10.6	1.98
Vitros, Magnetic HDL	26	92.148	7.6	1.70
Vitros 5.1 FS Microtip assay	12	89.010	6.0	1.92



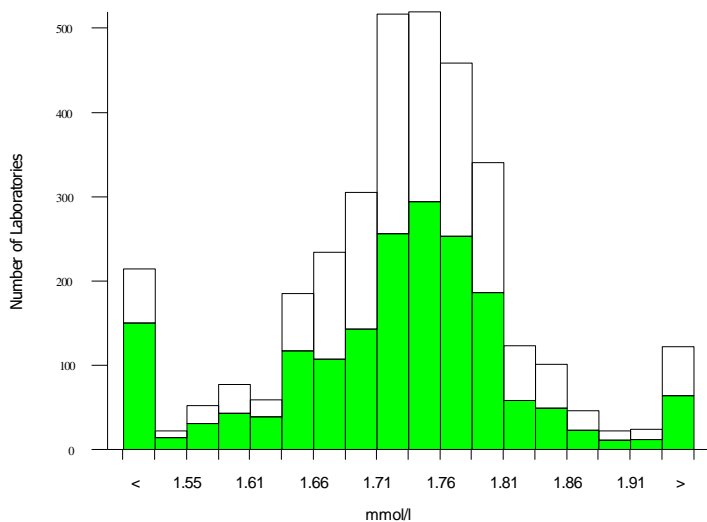
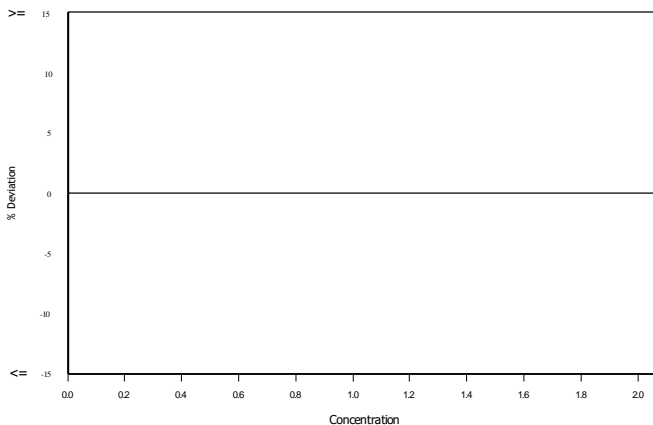
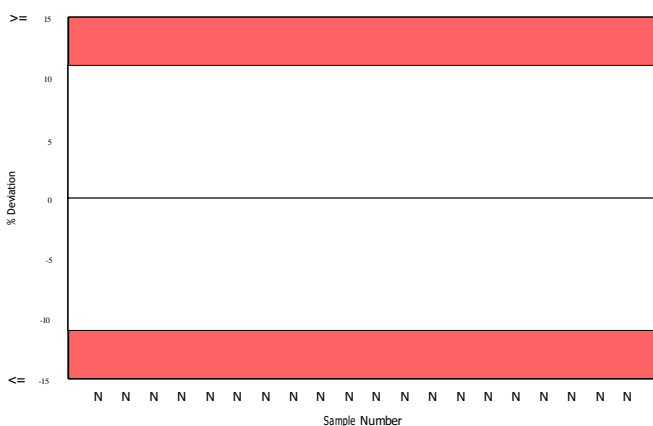
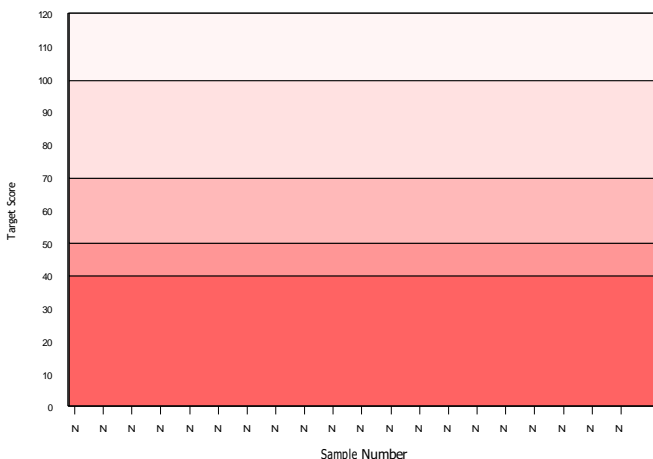
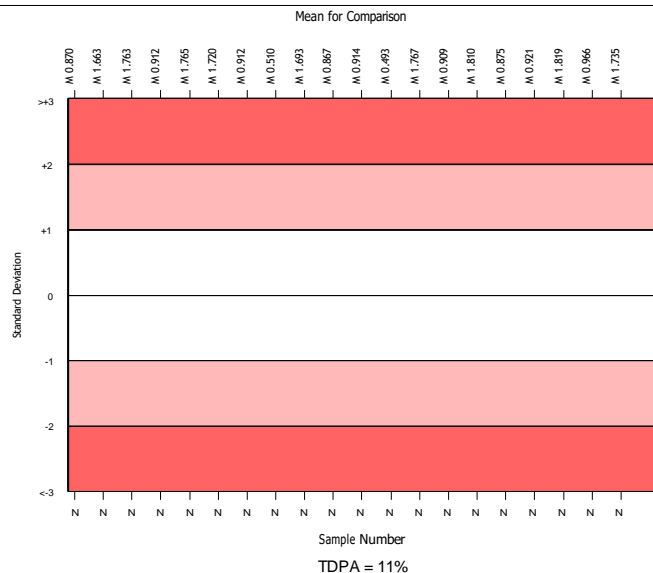
A ABC

Magnesium, mmol/l

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3087	1.738	3.9	0.00	0.12	334
Xylidyl Blue	1656	1.735	4.2	0.00	0.12	194
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	RMSDI	Too Few
▲ Mean for Comparison	1.735	TS	RMTS	Too Few
		%DEV	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	1656	1.735	4.2	0.00
Enzymatic	351	1.741	2.8	0.00
Chlorophosphonazo III	324	1.744	2.7	0.00
Methylthymol blue	237	1.760	3.6	0.01
Ortho Vitros MicroSlide Systems	173	1.745	2.9	0.00
Calmagite	124	1.701	6.7	0.01
Arsenazo	89	1.728	2.9	0.01
Atomic absorption	61	1.741	4.1	0.01
Agappe - XYLIDYL BLUE	30	1.689	4.7	0.02
Other Dry Chemistry	17	1.915	9.9	0.06
Other magnesium dyes	7	1.638	4.1	0.03

A

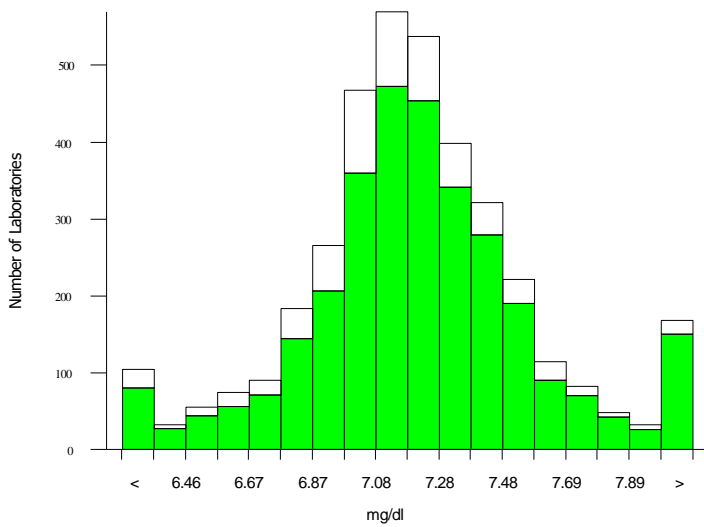
ABC

Phosphate, Inorganic, mg/dl

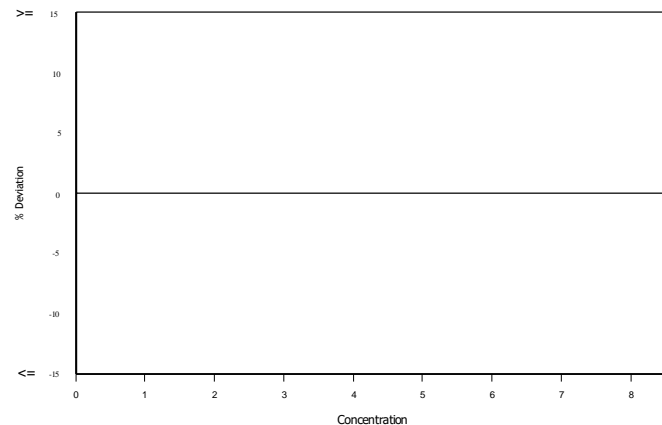
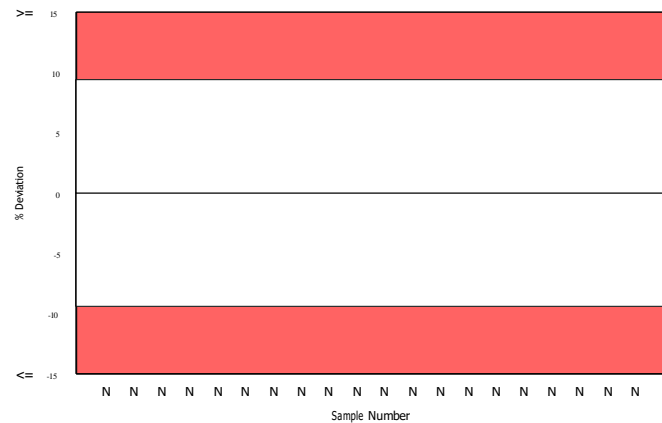
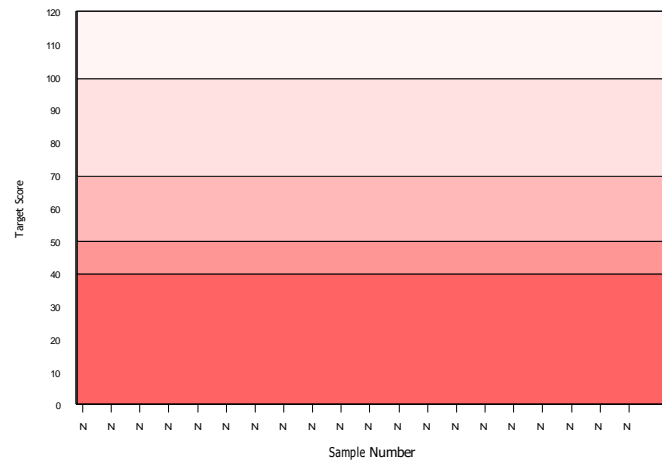
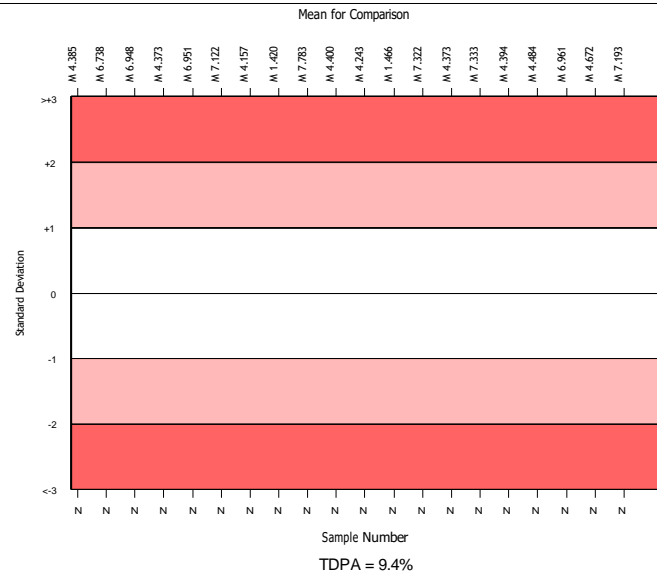
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3441	7.182	3.8	0.01	0.41	320
Phosphomolybdate UV	2825	7.193	3.7	0.01	0.41	276
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	RMSDI	Too Few
■ Mean for Comparison	7.193	TS	RMTS	Too Few
		%DEV	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	2825	7.193	3.7	0.01
Phosphomolybdate enzymatic	301	7.140	3.3	0.02
Ortho Vitros MicroSlide Systems	186	7.054	3.4	0.02
Beckman PHOSm kit (365nm)	42	7.146	3.4	0.05
Agappe - PHOSPHOMOLYBDATE	39	7.461	3.0	0.04
Other Dry Chemistry	14	7.303	5.9	0.14
Other methods, no protein ppt	7	7.107	2.0	0.07
Vitros, DT60/DT60 II/DTSC II	2	6.956	2.9	0.18
Other methods, with protein ppt	2	7.095	0.1	0.01



A

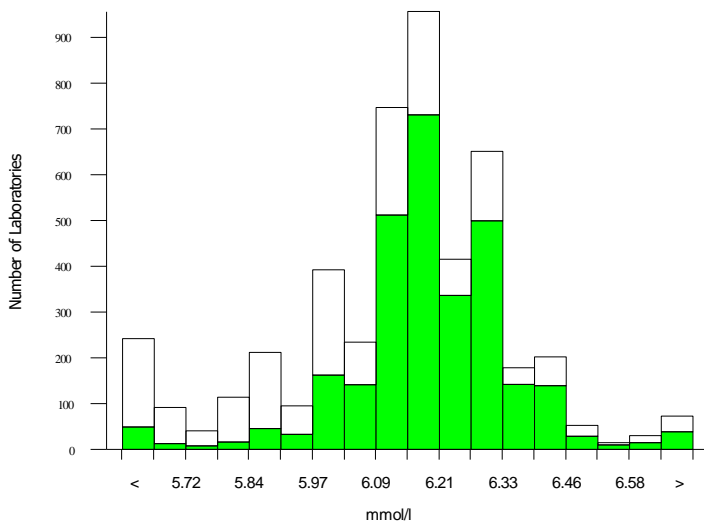
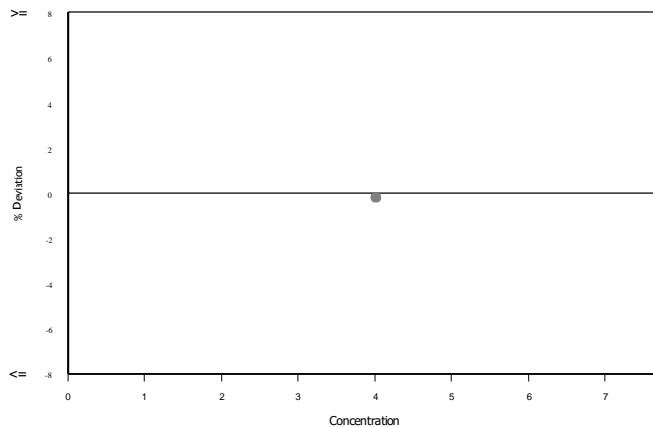
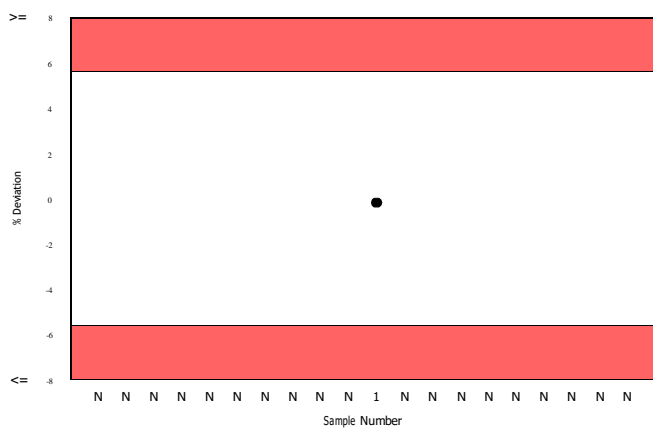
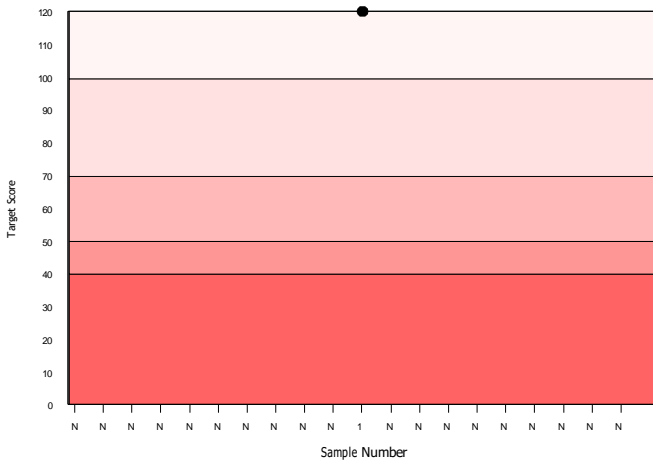
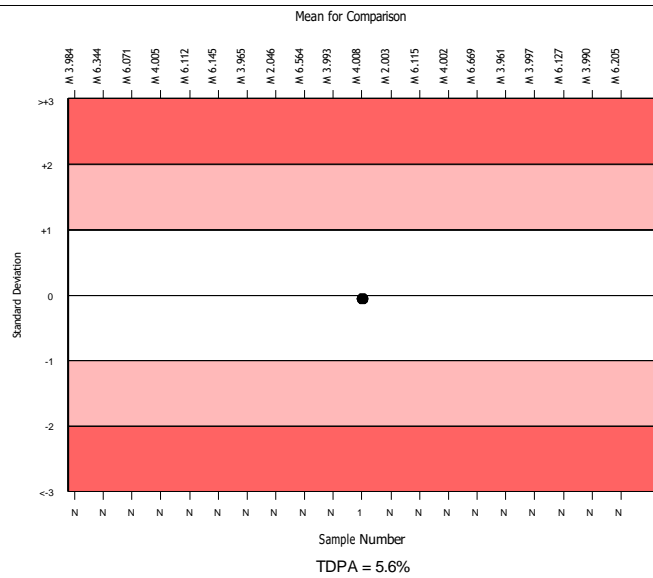
ABC

Potassium, mmol/l

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4383	6.155	2.6	0.00	0.21	356
ISE method - indirect	2705	6.205	1.7	0.00	0.21	213
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	RMSDI	Too Few
▲ Mean for Comparison	6.205	TS	RMTS	Too Few
		%DEV	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	2705	6.205	1.7	0.00
ISE method - direct	1353	6.050	3.6	0.01
Ortho Vitros MicroSlide Systems	179	6.136	2.1	0.01
Colorimetric	57	5.669	6.2	0.06
Other Dry Chemistry	25	6.106	1.7	0.03
Agappe - ISE DIRECT	13	6.054	1.4	0.03
Flame photometry	14	5.856	5.5	0.11
Enzymatic	12	6.108	5.5	0.12
Turbidimetric	11	5.995	8.5	0.19
Vitros, DT60/DT60 II/DTE II	5	6.020	4.9	0.16
Optical Fluorescence	5	5.984	5.4	0.18

A

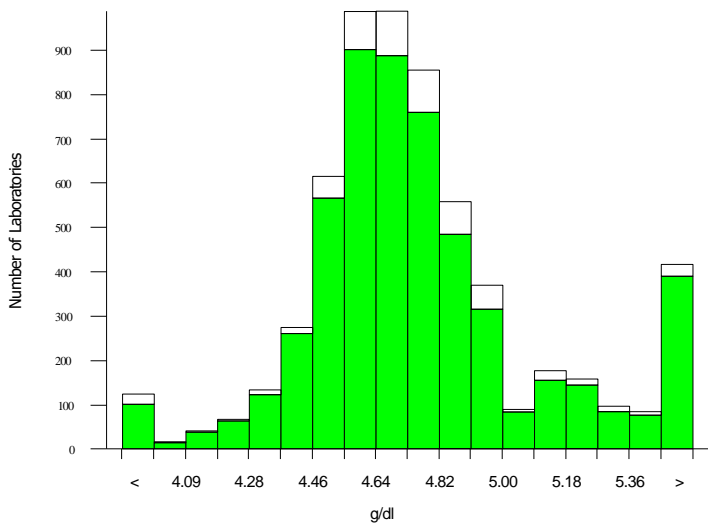
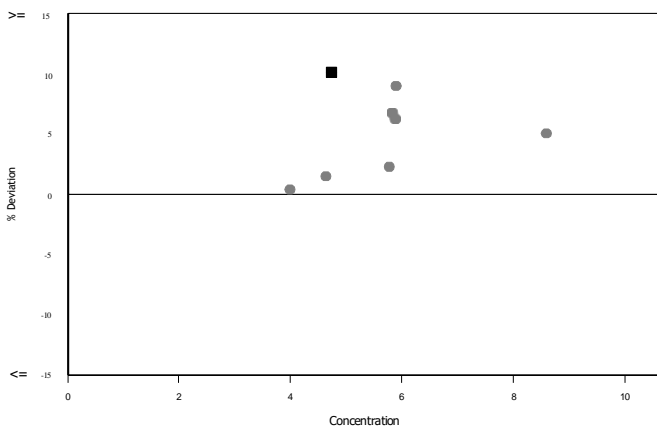
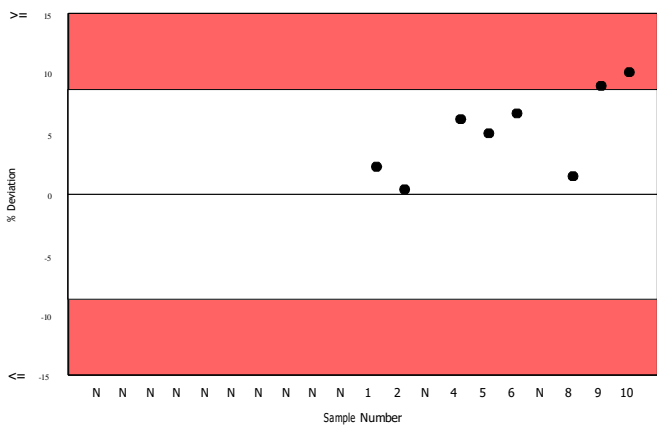
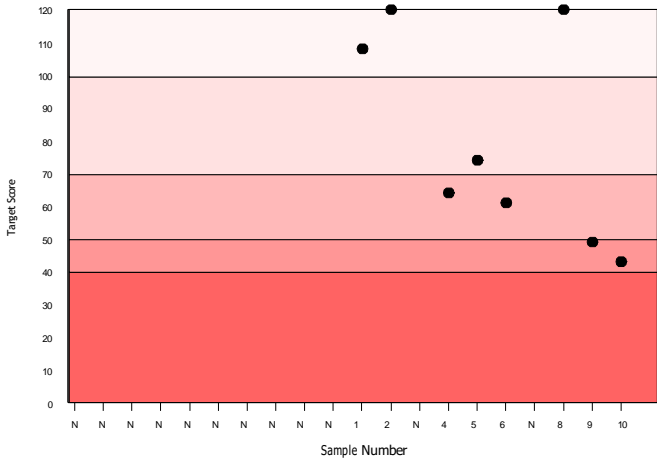
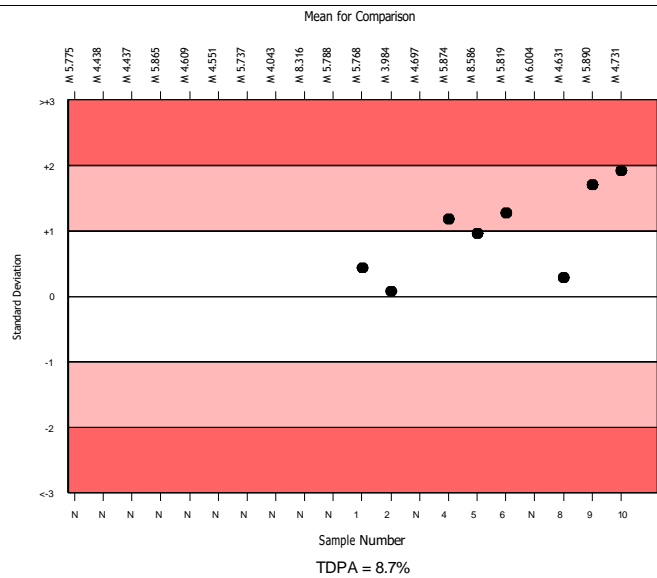
ABC

Protein, Total, g/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5502	4.734	5.1	0.00	0.25	540
Biuret reaction, end point	4954	4.731	5.1	0.00	0.25	485
Tulip Coralyzer 200	2	5.055	4.3	0.19	0.33a	0

▲ Your Result	5.210	SDI	1.92
		RMSDI	Too Few
■ Mean for Comparison	4.731	TS	43
		RMTS	Too Few
		%DEV	10.1
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	8.70 %
TS & %DEV outside limits	



Method	N	Mean	CV%	U _m
Biuret reaction, end point	4954	4.731	5.1	0.00
Ortho Vitros MicroSlide Systems	217	4.789	3.0	0.01
Biuret reaction, kinetic	175	4.654	4.1	0.02
Agappe - BIURET	60	5.084	4.8	0.04
Biuret reaction, CX4/5/7	43	4.642	3.3	0.03
Other Dry Chemistry	38	4.825	4.0	0.04
Refractometry	3	4.523	12.2	0.40
Vitros, DT60/DT60 II	2	4.800	2.9	0.12

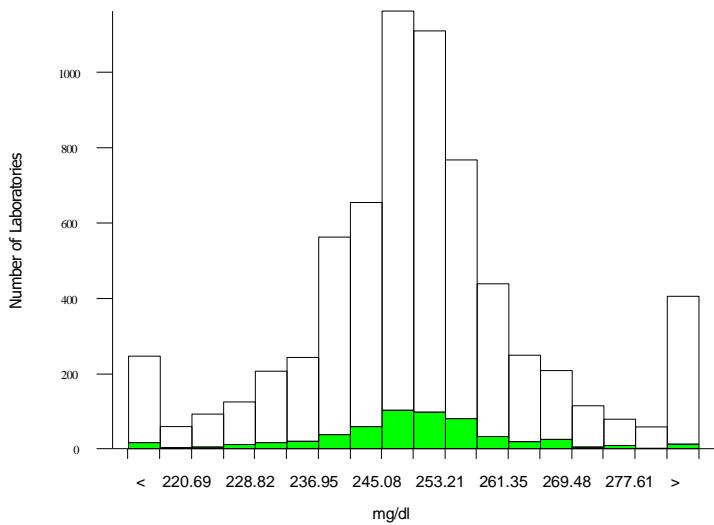
A ABC

Trig Total, mg/dl

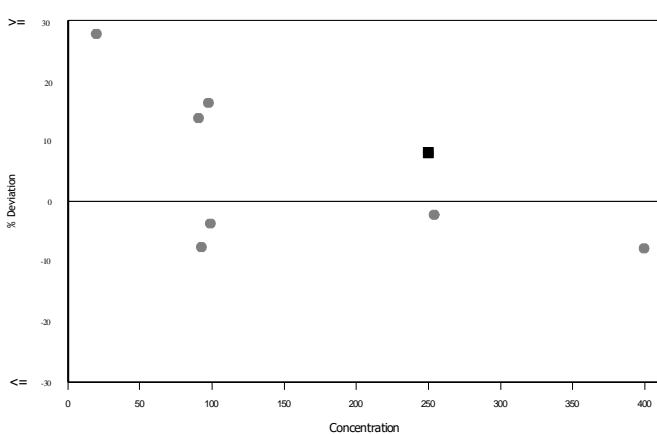
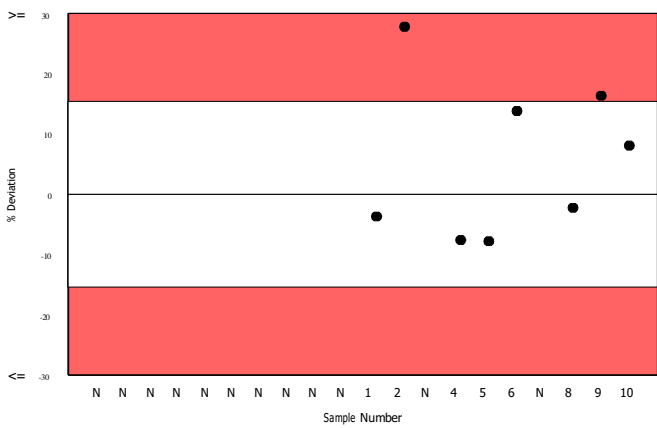
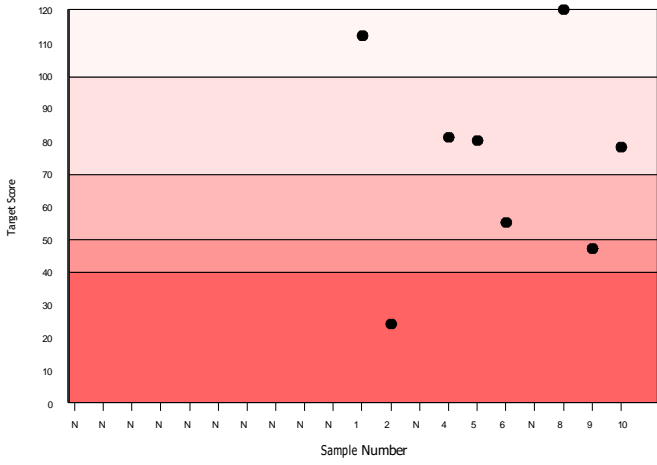
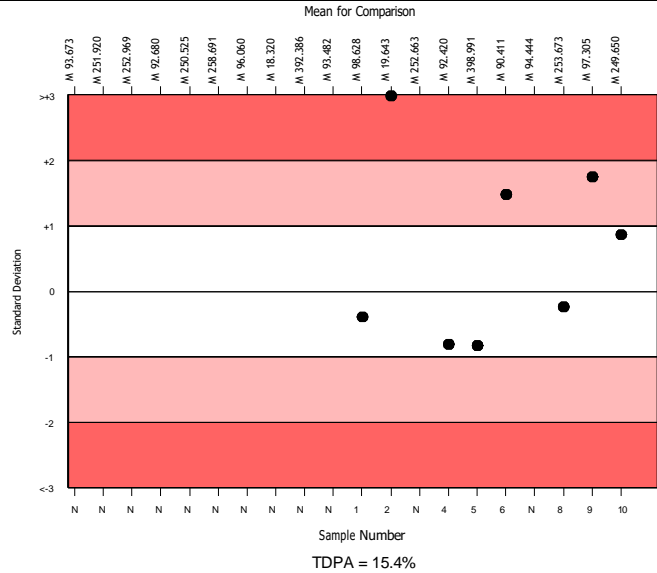
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6085	249.154	4.4	0.17	23.32	679
Lipase/GK UV. no correction	497	249.650	3.5	0.49	23.37	54
Tulip Coralyzer 200	1	269.800	0.0	0.00	N/A	0

▲ Your Result	269.800	SDI	0.86
		RMSDI	Too Few
■ Mean for Comparison	249.650	TS	78
		RMST	Too Few
		%DEV	8.1
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	15.40 %



Method	N	Mean	CV%	U _m
Lipase/GPO-PAP no correction	4465	249.001	3.9	0.18
Lipase/GK UV. no correction	497	249.650	3.5	0.49
Lipase/Glycerol Dehydrogenase	368	249.408	3.7	0.59
Lipase/GPO-PAP, 0.11 mmol/l correction	294	249.656	3.9	0.71
Ortho Vitros MicroSlide Systems	221	290.336	2.7	0.66
Lipase/GK UV., 0.11 mmol/l correction	96	246.702	3.5	1.09
Agappe - GPO - TOPS	72	240.422	4.3	1.53
Siemens Dimension	67	250.263	2.6	0.97
Other Dry Chemistry	33	297.438	10.0	6.45
Vitros DT60/DT60 II/DTSC II	5	287.312	10.4	16.75



A

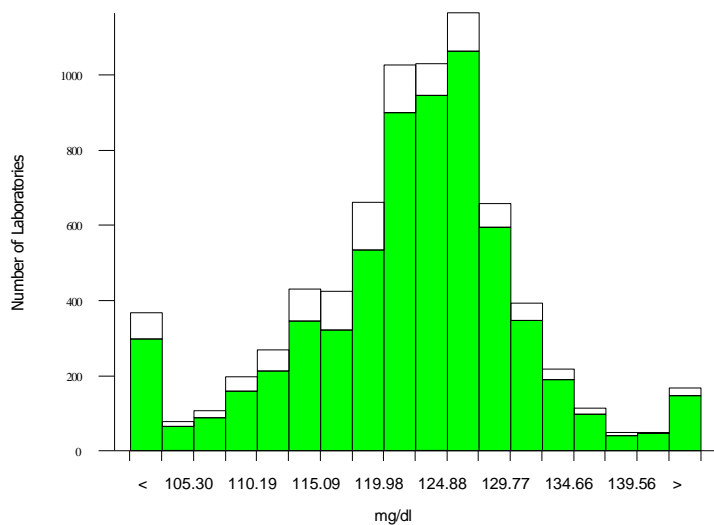
ABC

Urea, mg/dl

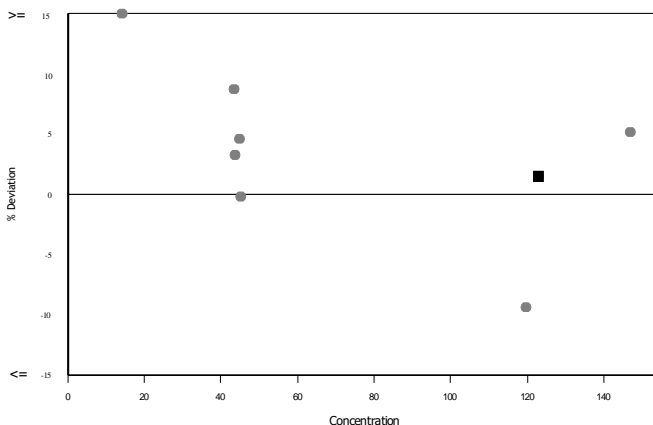
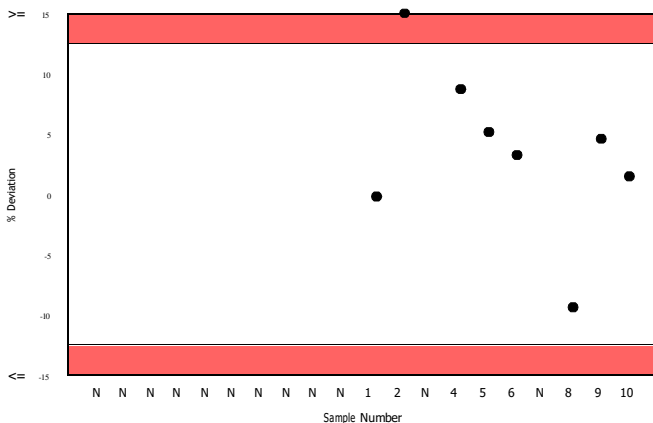
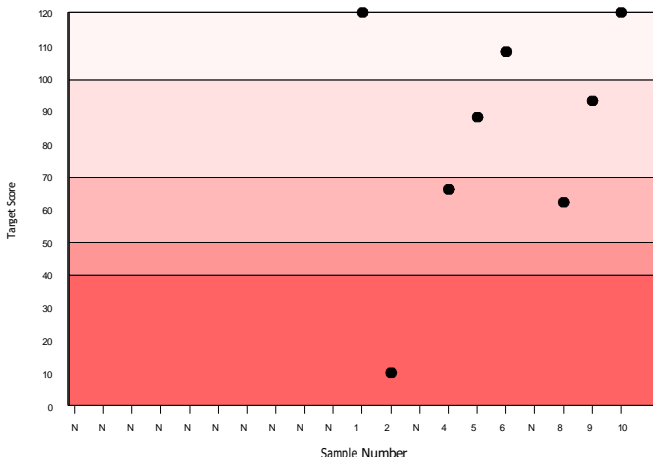
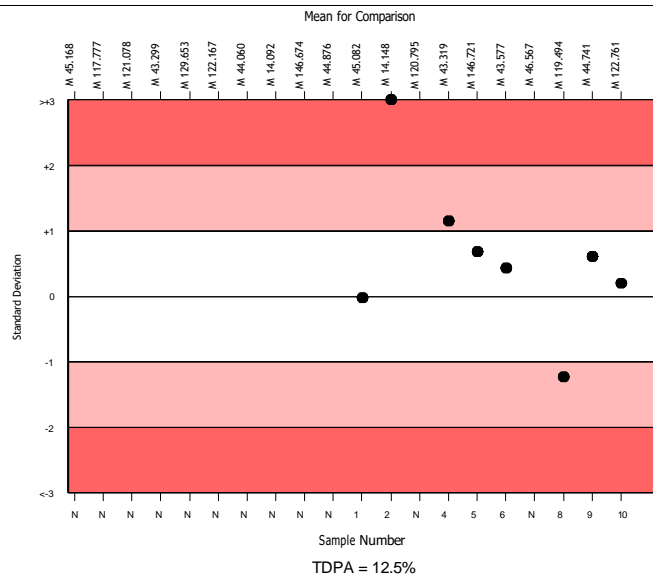
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6763	122.434	5.3	0.10	9.30	636
Urease, kinetic	5833	122.761	5.2	0.10	9.33	556
Tulip Coralyzer 200	2	114.800	12.1	12.25	15.04a	0

▲ Your Result	124.600	SDI	0.20
		RMSDI	Too Few
■ Mean for Comparison	122.761	TS	120
		RMST	Too Few
		%DEV	1.5
		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	5833	122.761	5.2	0.10
Urease, end point	417	121.620	6.5	0.48
Ortho Vitros MicroSlide Systems	227	117.930	2.8	0.27
Urease, hypochlorite	100	117.603	6.9	1.02
Agappe - UREASE GLDH	65	120.593	5.8	1.09
Other Dry Chemistry	41	129.261	3.5	0.88
Beckman - Conductivity	29	125.534	6.2	1.81
Agappe - BERTHELOT	13	122.280	5.4	2.28
Vitros DT60/DT60 II	4	118.556	5.9	4.36
O-Phthalaldehyde	4	119.850	1.9	1.41
Diacetyl monoxime	3	102.610	15.6	11.55



A

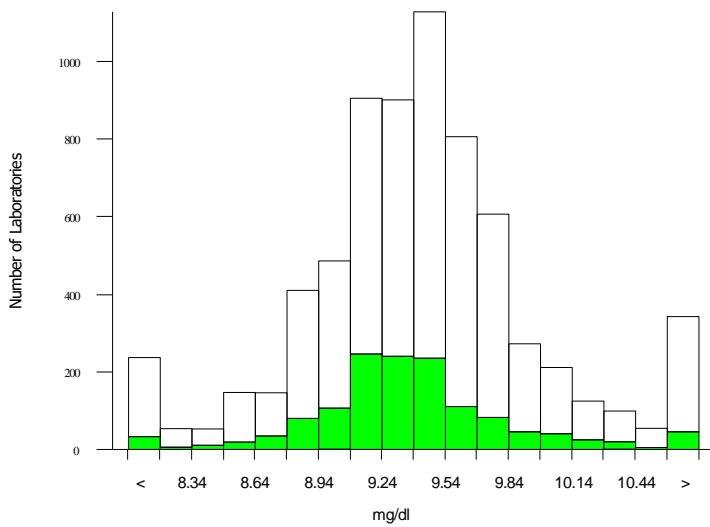
ABC

Uric Acid (Urate), mg/dl

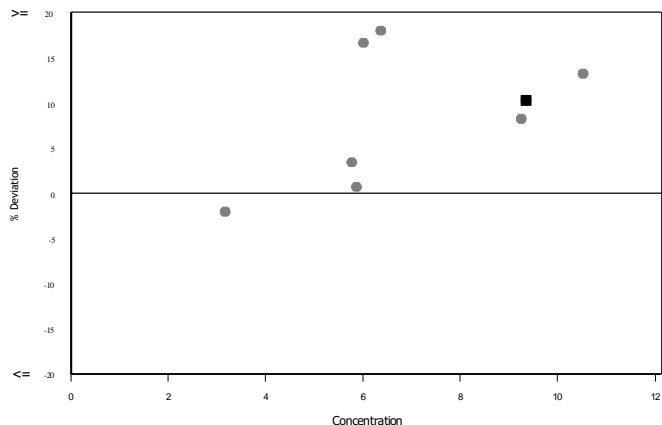
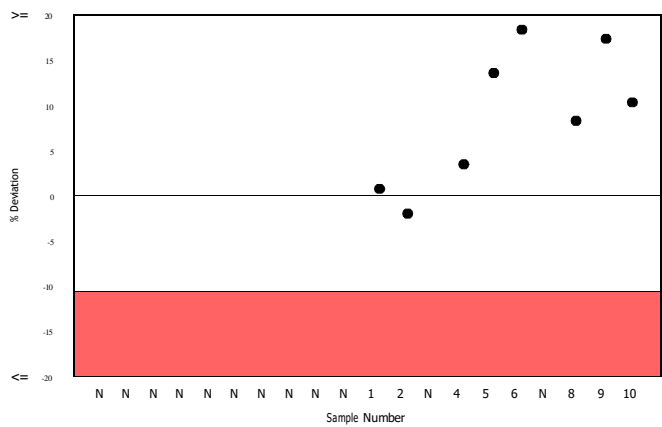
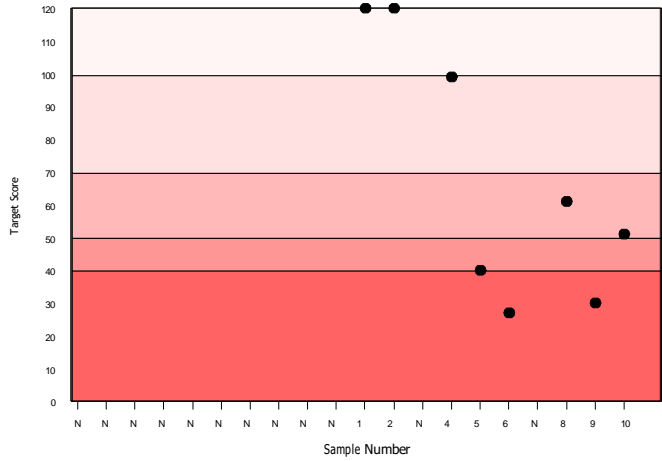
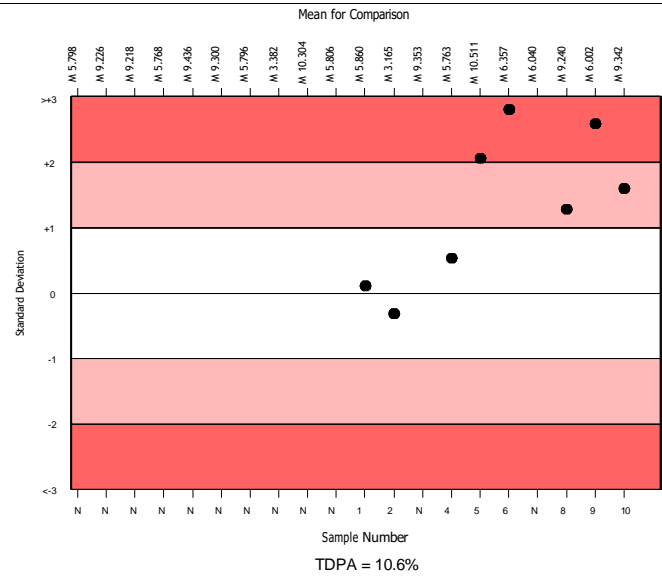
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6363	9.396	4.3	0.01	0.61	616
Uricase Perox. with ascorb. ox @ 546nm	1259	9.342	3.5	0.01	0.60	130
Tulip Coralyzer 200	2	9.650	9.5	0.81	1.02a	0

▲ Your Result	10.300	SDI	1.59
		RMSDI	Too Few
■ Mean for Comparison	9.342	TS	51
		RMTS	Too Few
		%DEV	10.3
		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	2561	9.391	4.5	0.01
Uricase Perox. with ascorb. ox	1840	9.483	3.9	0.01
Uricase Perox. with ascorb. ox @ 546nm	1259	9.342	3.5	0.01
Ortho Vitros MicroSlide Systems	227	8.945	2.5	0.02
Uricase @ 293 nm	193	9.375	2.0	0.02
Uricase, catalase 340nm.	117	9.411	2.7	0.03
Agappe - URICASE - PAP	44	9.803	5.6	0.10
Agappe - URICASE - TOPS	22	9.518	8.1	0.21
Other Dry Chemistry	24	10.144	3.5	0.09
Reduction methods	15	9.757	9.2	0.29
Vitros DT60/DT60 II	4	8.882	3.1	0.17



A

ABC

Analyte	Mean for Comparison	Your Result	SDI	RMSDI	%DEV	RM%DEV	TS	RMTS	Performance
Albumin	3.070	3.200	0.78	Too Few	4.2	Too Few	83	Too Few	
Alkaline Phosphatase	346.803	381.100	0.88	Too Few	9.9	Too Few	77	Too Few	
ALT (GPT)	140.166	156.500	1.27	Too Few	11.7	Too Few	61	Too Few	
AST (GOT)	159.503	160.700	0.08	Too Few	0.8	Too Few	120	Too Few	
Bilirubin, Direct	1.737	2.300	<u>2.07</u>	Too Few	<u>32.4</u>	Too Few	<u>40</u>	Too Few	
Bilirubin, Total	5.241	5.990	1.48	Too Few	14.3	Too Few	55	Too Few	
Calcium	12.954	11.630	<u>-2.02</u>	Too Few	<u>-10.2</u>	Too Few	<u>41</u>	Too Few	
Chloride	112.856	No Result		Too Few		Too Few		Too Few	
Cholesterol	298.557	315.800	1.10	Too Few	5.8	Too Few	67	Too Few	
Creatinine	3.940	4.080	0.46	Too Few	3.5	Too Few	105	Too Few	
Glucose	277.724	265.200	-0.87	Too Few	-4.5	Too Few	77	Too Few	
HDL-Cholesterol	97.877	119.100	1.69	Too Few	<u>21.7</u>	Too Few	<u>49</u>	Too Few	
Magnesium	1.735	No Result		Too Few		Too Few		Too Few	
Phosphate, Inorganic	7.193	No Result		Too Few		Too Few		Too Few	
Potassium	6.205	No Result		Too Few		Too Few		Too Few	
Protein, Total	4.731	5.210	1.92	Too Few	<u>10.1</u>	Too Few	<u>43</u>	Too Few	
Trig Total	249.650	269.800	0.86	Too Few	8.1	Too Few	78	Too Few	
Urea	122.761	124.600	0.20	Too Few	1.5	Too Few	120	Too Few	
Uric Acid (Urate)	9.342	10.300	1.59	Too Few	10.3	Too Few	51	Too Few	

ORMSDI N/A

ORM%DEV N/A

ORMTS N/A

END OF REPORT

A

ABC

Unique Wellness Care

MONTHLY CLINICAL CHEMISTRY

CYCLE 19 SAMPLE 11

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

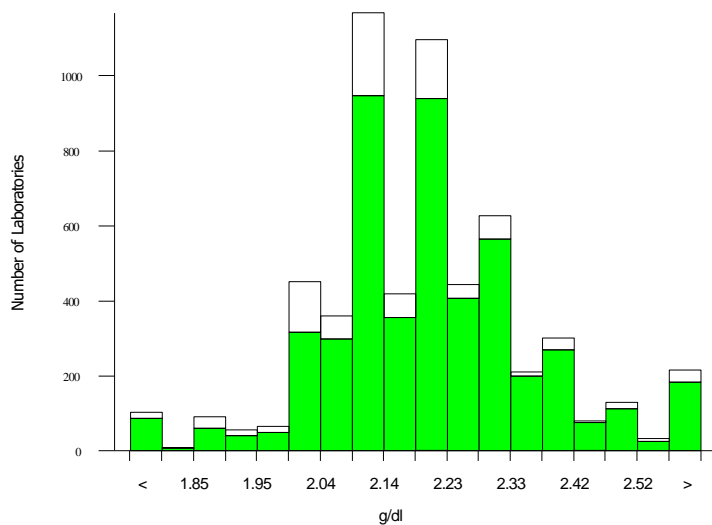
Issue Date: 02/12/2022

Albumin, g/dl

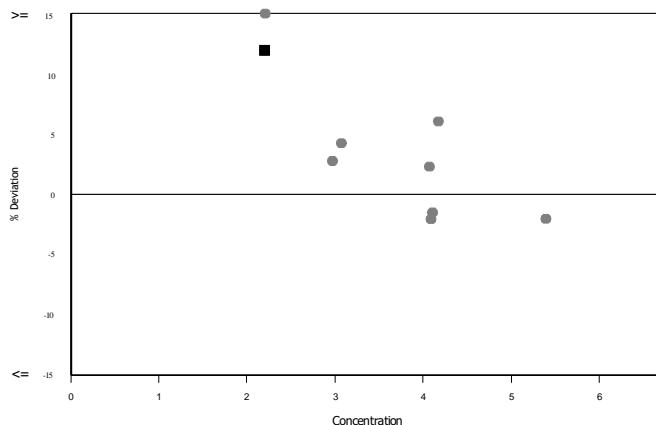
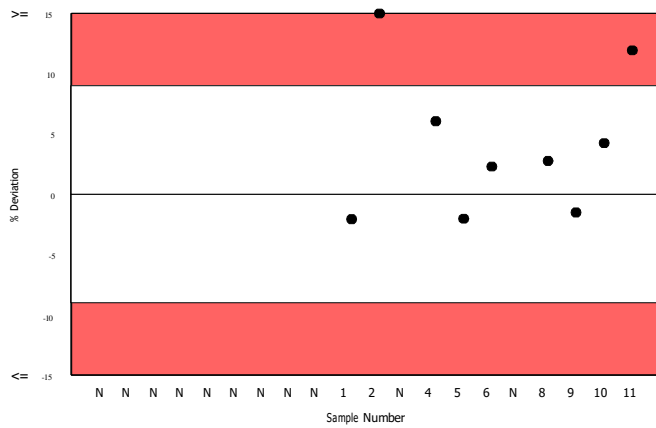
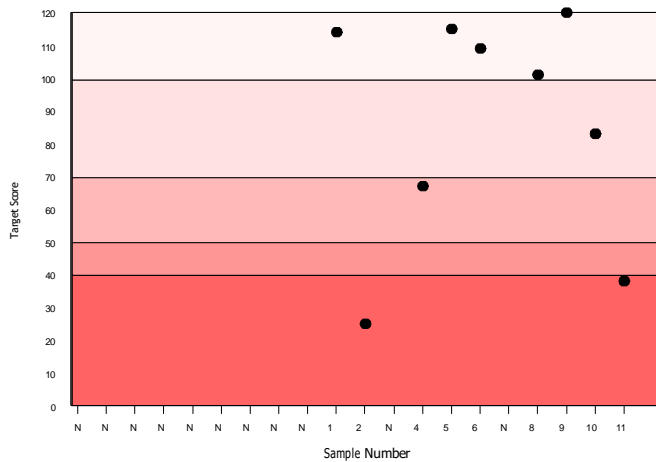
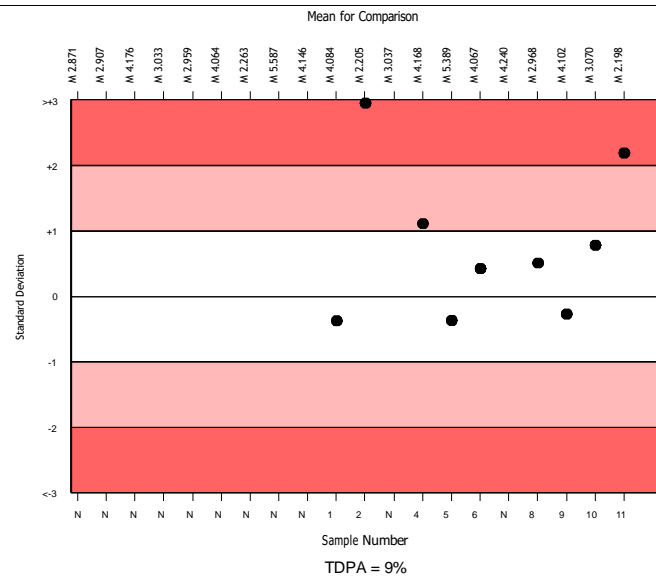
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5470	2.188	5.8	0.00	0.12	381
Bromocresol Green	4620	2.198	5.7	0.00	0.12	309
Tulip Coralyzer 200	2	2.330	7.9	0.16	0.21a	0

▲ Your Result	2.460	SDI	2.18
		RMSDI	Too Few
■ Mean for Comparison	2.198	TS	38
		RMTS	Too Few
		%DEV	11.9
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	9.00 %
SDI in bottom 5% of peer group	
TS & %DEV outside limits	



Method	N	Mean	CV%	U _m
Bromocresol Green	4620	2.198	5.7	0.00
Bromocresol Purple	478	2.156	3.5	0.00
Ortho Vitros MicroSlide Systems	196	1.999	3.2	0.01
Agappe - Bromocresol Green	57	2.495	5.4	0.02
Other Dry Chemistry	38	2.299	4.7	0.02
Turbidimetric Assays	37	2.212	5.3	0.02
Abbott Alinity Albumin BCG 2	15	2.128	2.2	0.02
Abbott Architect Albumin BCG 2	8	2.196	0.5	0.00
Nephelometric Assays	5	2.196	6.2	0.08
Abbott Architect Albumin BCP 2	4	2.100	0.0	0.00
Abbott Alinity Albumin BCP 2	3	2.100	0.0	0.00
Vitros DT60/DT60 II/DTSC II	3	2.017	1.4	0.02
Electrophoresis	3	2.200	2.3	0.04

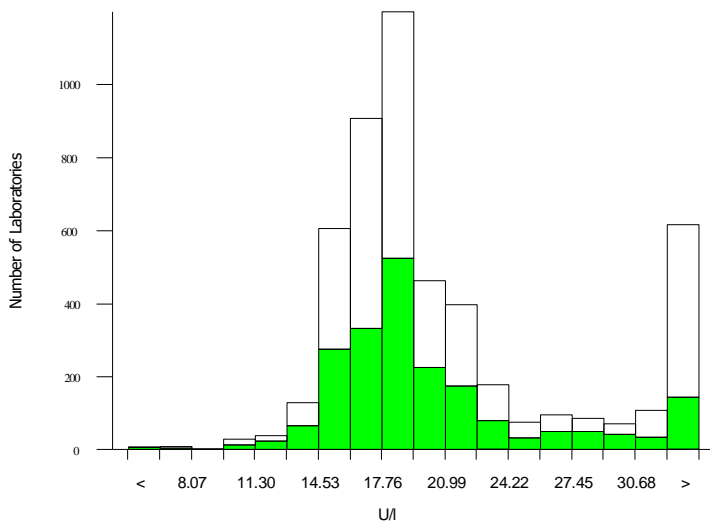


Alkaline Phosphatase, U/l @ 37°C

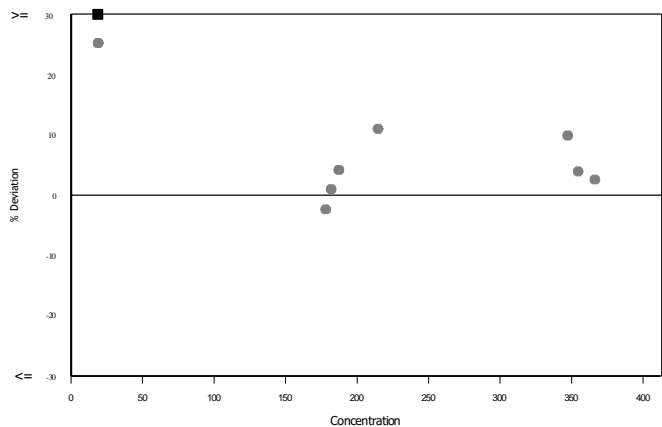
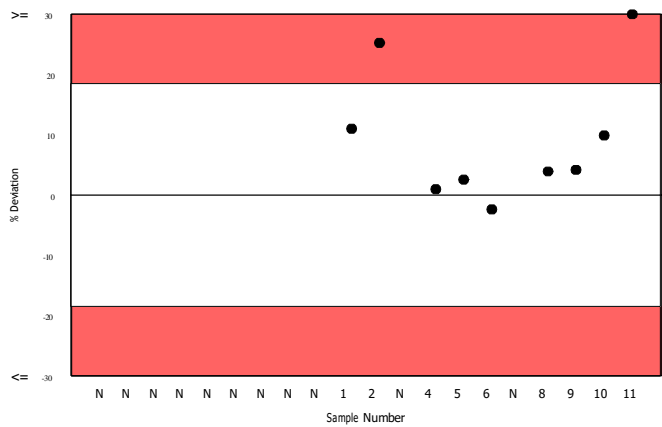
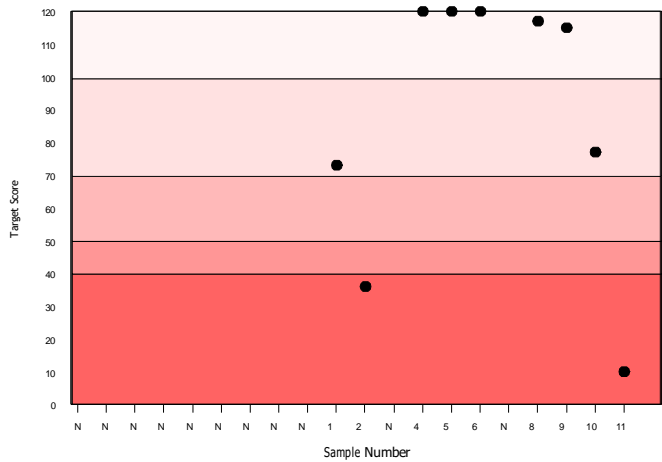
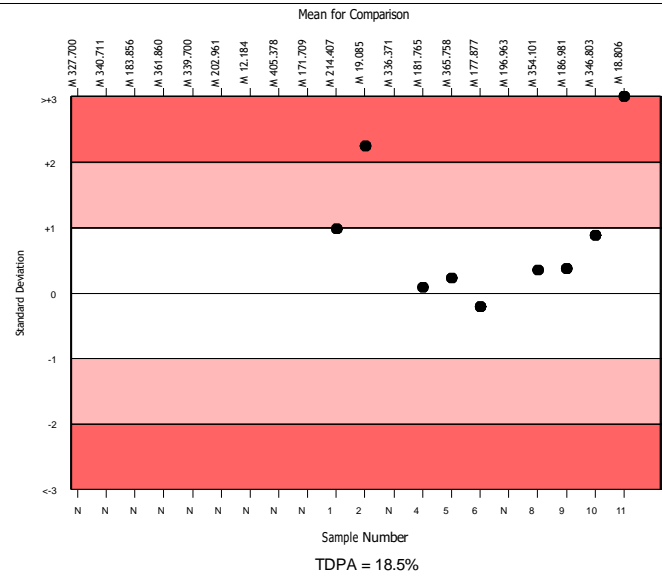
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4457	19.379	22.2	0.08	2.18	574
AMP optimised to IFCC	1846	18.806	17.8	0.10	2.12	228
Tulip Coralyzer 200	2	33.000	38.6	11.25	11.85a	0

▲ Your Result	42.000	SDI	10.97
		RMSDI	Too Few
■ Mean for Comparison	18.806	TS	10
		RMTS	Too Few
		%DEV	123.3
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	18.50 %
SDI in bottom 5% of peer group	
TS & %DEV outside limits	



Method	N	Mean	CV%	U _m
AMP optimised to IFCC	1846	18.806	17.8	0.10
Roche AMP buffer IFCC	1200	17.677	7.8	0.05
Diethanolamine buffer, DEA	433	36.326	25.6	0.56
Ortho Vitros MicroSlide Systems	213	22.007	10.2	0.19
Siemens/Dade Dimension AMP buffer	211	17.189	14.5	0.21
AMP non-optimised	207	22.304	32.4	0.63
Beckman AMP (Calibrator)	125	18.290	11.6	0.24
Colorimetric	116	18.617	17.7	0.38
Other AMP kits	50	18.301	13.2	0.43
Agappe - DGKC-SCE	48	33.951	18.7	1.15
Other Dry Chemistry	32	25.066	24.6	1.36
Beckman AMP (Extinction Coeff)	22	16.813	8.6	0.39
AMP optimised to NVKC/SFBC	8	22.801	35.3	3.56
AMPD optimised to JSCC	4	17.250	12.9	1.39
Abbott Alinity Alkaline Phosphatase 2	5	18.800	4.5	0.47
Abbott Architect Alkaline Phosphatase 2	4	18.750	17.6	2.07
Fuji Dri-Chem JSCC	4	27.075	31.0	5.24
Vitros DT60/DT60 II/DTSC II	3	19.667	10.6	1.50



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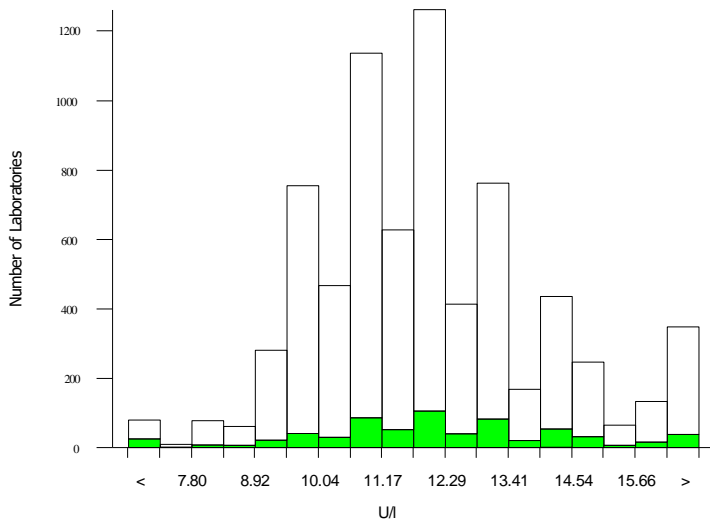
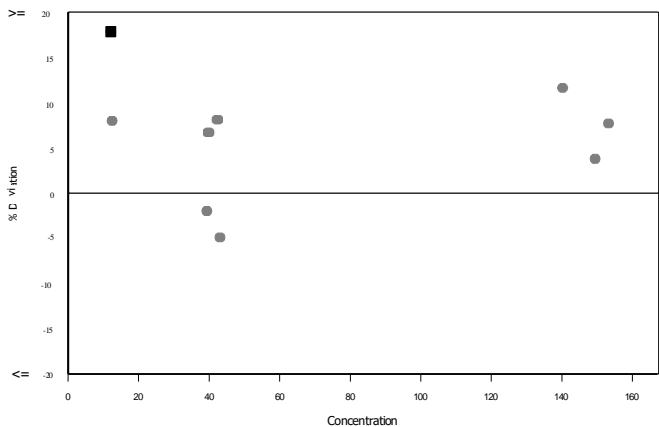
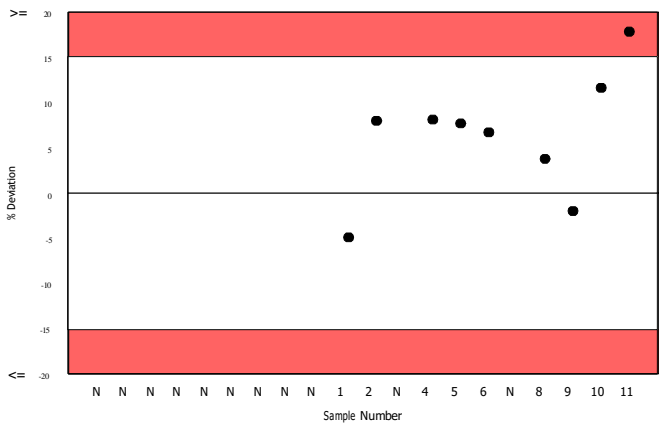
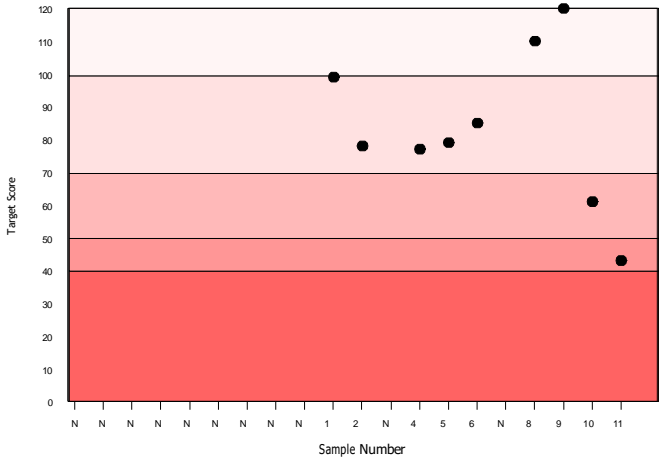
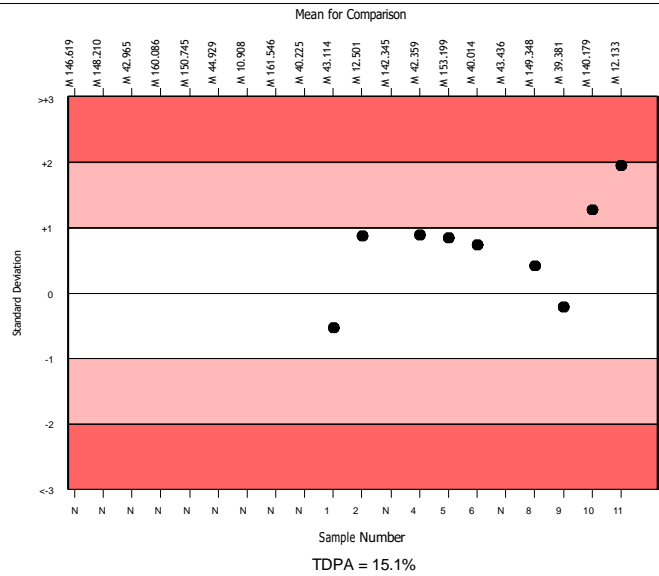
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ALT (GPT), U/I @ 37°C

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6690	11.734	12.8	0.02	1.08	637
Tris buffer with P5P	606	12.133	14.5	0.09	1.11	63
Tulip Coralyzer 200	1	14.300	0.0	0.00	N/A	0

▲ Your Result	14.300	SDI	1.95
		RMSDI	Too Few
■ Mean for Comparison	12.133	TS	43
		RMTS	Too Few
		%DEV	17.9
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	15.10 %
TS & %DEV outside limits	



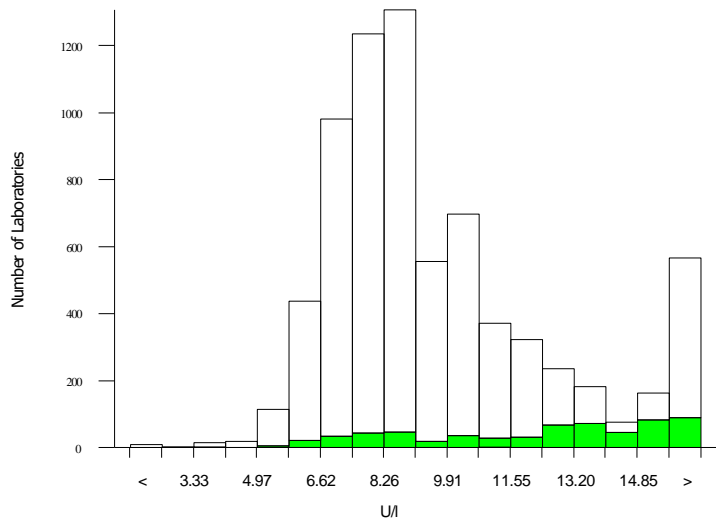
Method	N	Mean	CV%	U _m
Tris buffer without P5P	4558	11.502	13.1	0.03
Beckman Mod. IFCC Ref. without P5P	830	11.676	6.8	0.03
Tris buffer with P5P	606	12.133	14.5	0.09
Siemens/Dade standard nonIFCC correlated	169	13.426	13.3	0.17
Ortho Vitros MicroSlide Systems	165	14.062	10.5	0.14
Beckman IFCC Ref. with P5P	98	11.656	7.6	0.11
Agappe - IFCC	83	12.670	14.8	0.26
Ortho Vitros MicroSlide visible	66	14.429	9.7	0.22
Colorimetric	58	11.985	17.0	0.33
Other Dry Chemistry	48	14.960	9.1	0.25
Phosphate buffer, DGKC	28	11.596	11.5	0.31
Tris buffer with P5P, NVKC	21	12.219	15.7	0.52
Tris buffer, SCE	12	11.518	10.3	0.43
Beckman (Extinction Coefficient)	13	11.512	11.1	0.44
Abbott Alinity ALT 2	4	11.000	0.0	0.00
Abbott Architect ALT 2	4	10.750	4.7	0.31
Vitros DT60/DT60 II/DTSC II	4	14.875	27.2	2.53

AST (GOT), U/I @ 37°C

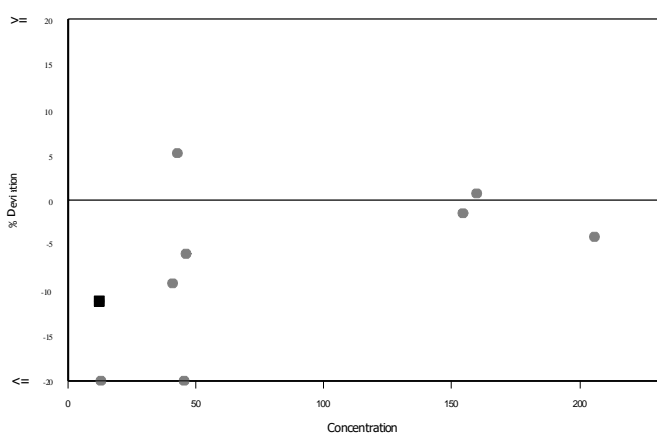
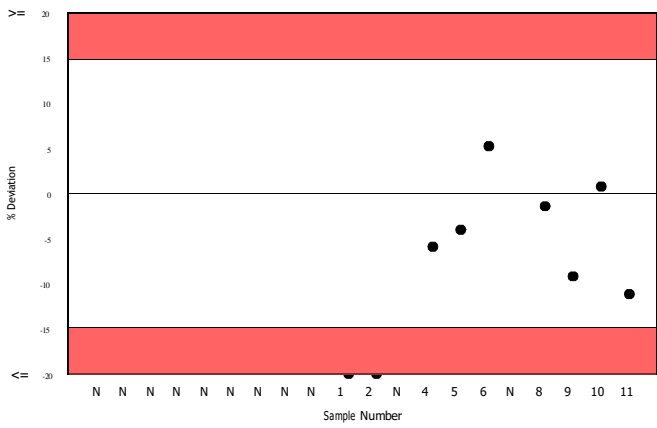
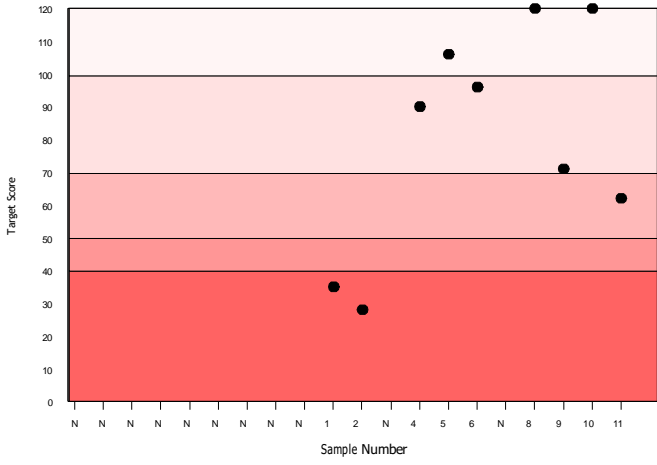
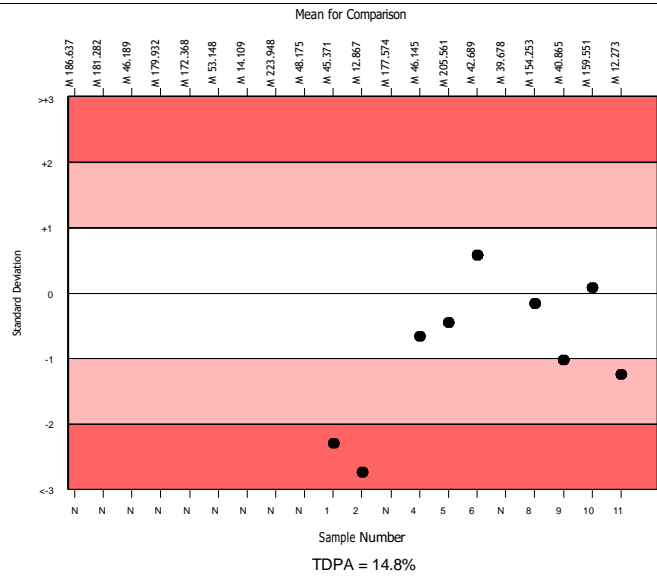
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6691	9.091	24.1	0.03	0.82	616
Tris buffer with P5P	602	12.273	25.9	0.16	1.10	18
Tulip Coralyzer 200	1	10.900	0.0	0.00	N/A	0

▲ Your Result	10.900	SDI	-1.24
		RMSDI	Too Few
■ Mean for Comparison	12.273	TS	62
		RMTS	Too Few
		%DEV	-11.2
		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	4499	8.468	19.7	0.03
Beckman Mod. IFCC Ref. without P5P	823	9.115	7.5	0.03
Tris buffer with P5P	602	12.273	25.9	0.16
Ortho Vitros MicroSlide visible	232	17.856	5.2	0.08
Siemens/Dade standard non IFCC corr.	175	13.269	20.8	0.26
Beckman IFCC Ref. with P5P	83	9.129	9.2	0.11
Agappe - IFCC	78	8.509	13.8	0.17
Colorimetric	53	8.610	20.3	0.30
Other Dry Chemistry	43	12.291	6.0	0.14
Phosphate buffer, DGKC	23	9.255	18.2	0.44
Tris buffer with P5P, NVKC	24	8.630	23.9	0.53
Tris buffer, SCE	12	9.190	6.9	0.23
Beckman (Extinction Coefficient)	11	8.165	19.7	0.61
Abbott Alinity AST 2	6	8.333	6.2	0.26
Abbott Architect AST 2	6	9.000	7.0	0.32
Vitros DT60/DT60 II/DTSC II	5	13.340	22.1	1.65



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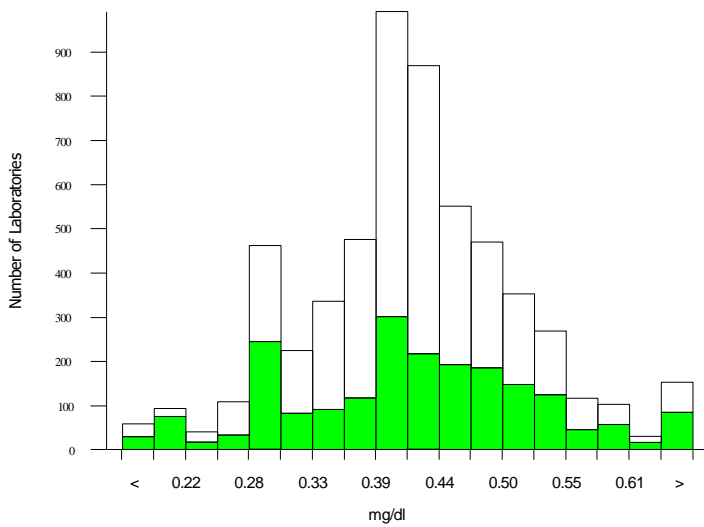
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Bilirubin, Direct, mg/dl

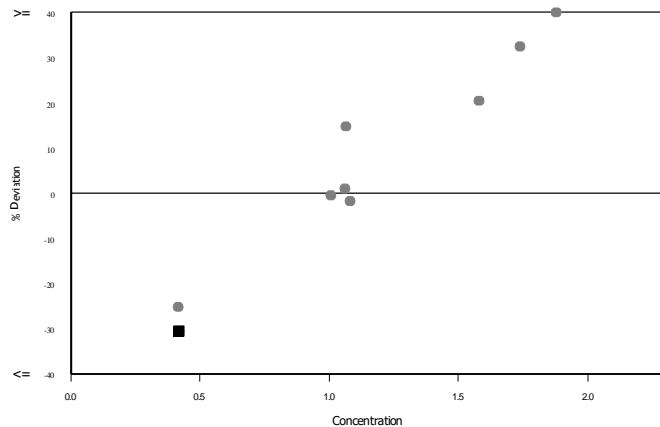
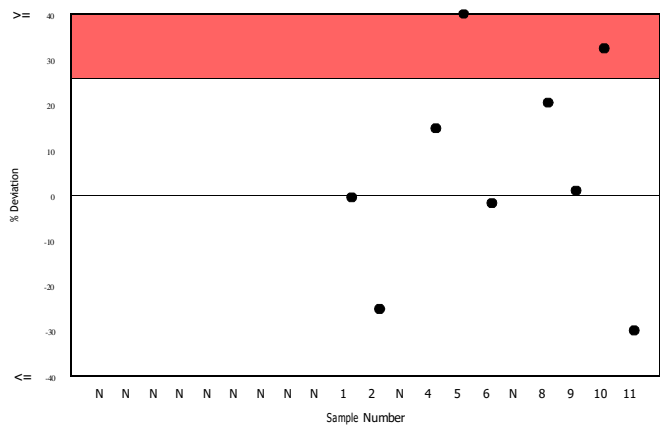
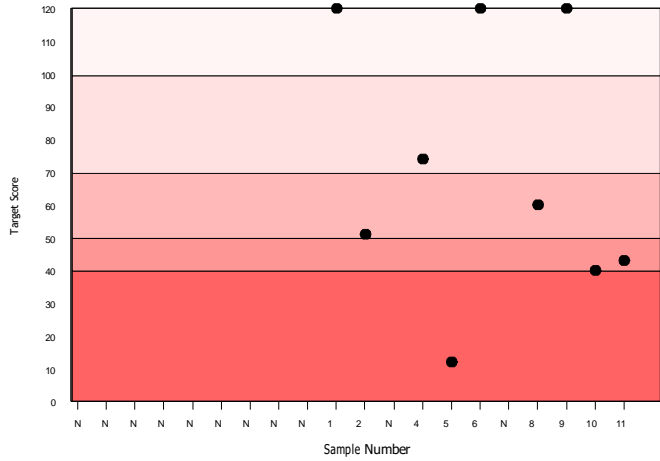
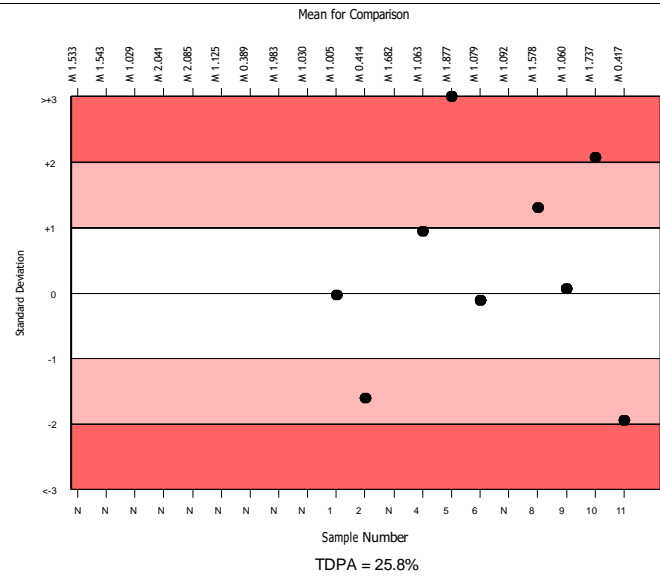
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5254	0.419	17.6	0.00	0.07	441
Diazo with Sulphanilic Acid	1941	0.417	23.0	0.00	0.07	118
Tulip Coralyzer 200	2	0.360	27.5	0.09	0.10a	0

▲ Your Result	0.290	SDI RMSDI	-1.95 Too Few
■ Mean for Comparison	0.417	TS RMTS	43 Too Few
		%DEV RM%DEV	-30.5 Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	25.80 %
TS & %DEV outside limits	



Method	N	Mean	CV%	U _m
Diazo with Sulphanilic Acid	1941	0.417	23.0	0.00
Dichlorophenyl Diazonium	1488	0.413	10.3	0.00
Diazo with Dichloroaniline	509	0.474	14.0	0.00
Roche DPD JG standardised	365	0.432	5.5	0.00
Oxidation to Biliverdin/Vanadate	323	0.497	10.3	0.00
Diazo/ Sulphanilic Siemens Dimension	250	0.295	6.7	0.00
Roche DPD Dumas standardised	179	0.403	12.0	0.00
Diazo/Sulphanilic Beckman DxC	89	0.385	7.4	0.00
Agappe - DIAZO	60	0.311	15.8	0.01
Other Dry Chemistry	36	0.439	20.0	0.02
Roche (US calibrator only)	5	0.442	4.8	0.01
Direct Spectrophotometry	4	0.368	35.6	0.08

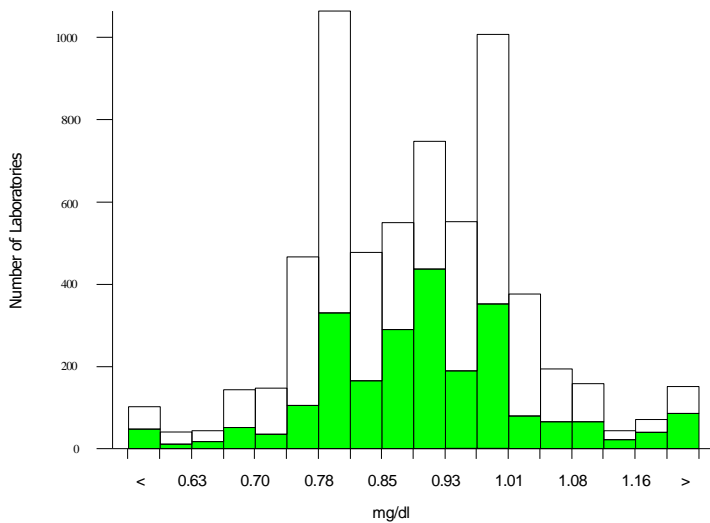


Bilirubin, Total, mg/dl

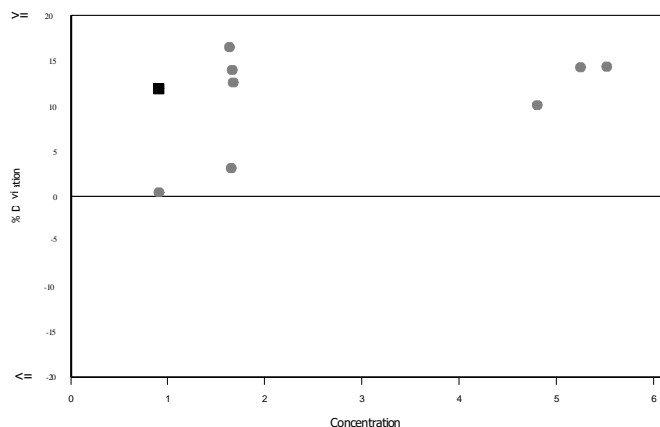
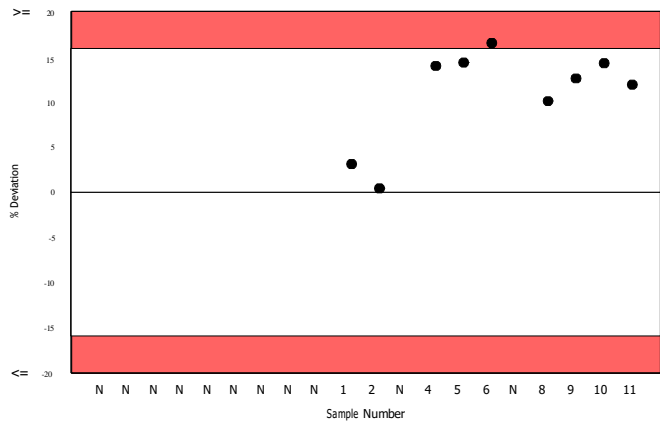
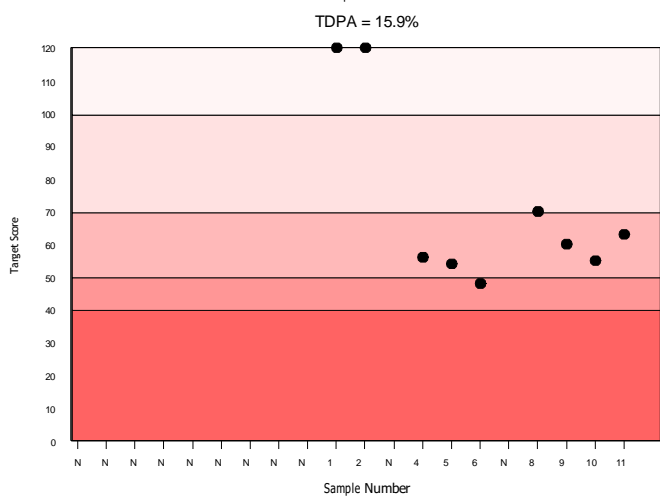
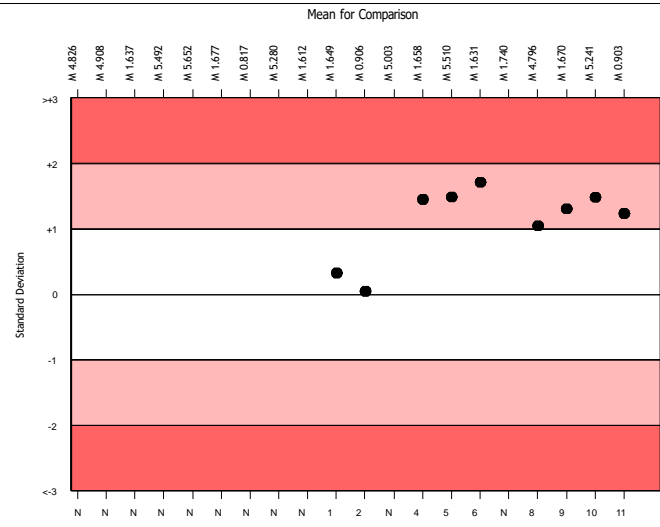
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5898	0.897	11.3	0.00	0.09	434
Diazo with Sulphanilic Acid	2179	0.903	10.5	0.00	0.09	212
Tulip Coralyzer 200	2	0.975	5.1	0.04	0.10a	0

▲ Your Result	1.010	SDI	1.23
		RMSDI	Too Few
■ Mean for Comparison	0.903	TS	63
		RMTS	Too Few
		%DEV	11.9
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	15.90 %



Method	N	Mean	CV%	U _m
Diazo with Sulphanilic Acid	2179	0.903	10.5	0.00
Dichlorophenyl Diazonium	1326	0.850	10.6	0.00
Diazo with Dichloroaniline	538	0.937	9.6	0.00
DPD (Beckman AU)	528	0.998	4.2	0.00
Diazonium ion	548	0.842	9.5	0.00
Oxidation to Biliverdin/Vanadate	361	0.980	6.9	0.00
Ortho Vitros MicroSlide System Total Bil	200	0.754	12.6	0.01
Agappe - TAB	52	0.866	8.5	0.01
Other Dry Chemistry	43	0.853	9.7	0.02
Nitrobenzenediazonium Salt	25	0.860	7.9	0.02
Agappe - DMSO	12	0.842	10.0	0.03
Direct Spectrophotometry	10	0.917	16.0	0.06
Vitros DT60/DT60 II Total Bil	4	0.656	33.2	0.14
Abbott Alinity Total Bilirubin 2	3	0.892	1.5	0.01
Assel - DMSO	2	0.960	4.4	0.04



Calcium, mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4815	6.493	4.2	0.00	0.33	468
Arsenazo	2274	6.542	4.4	0.01	0.33	239
Tulip Coralyzer 200	1	5.680	0.0	0.00	N/A	0

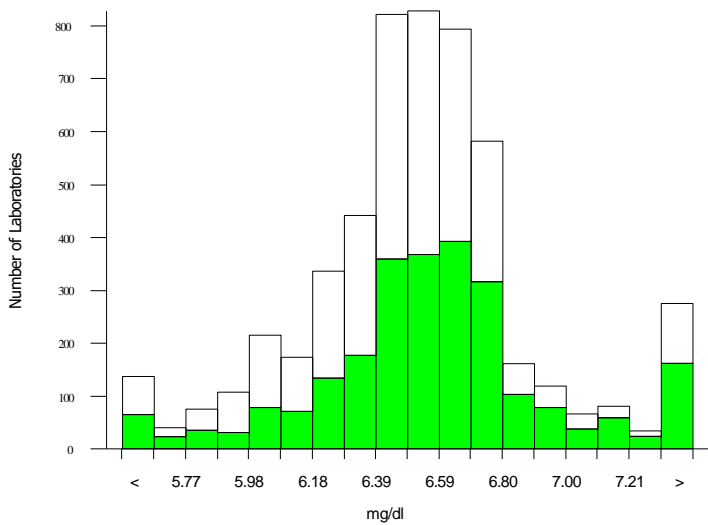
▲ Your Result	5.680	SDI RMSDI	-2.61 Too Few
■ Mean for Comparison	6.542	TS RMTS	30 Too Few
		%DEV RM%DEV	-13.2 Too Few

Acceptable limits derived from Biological Variation: N/A

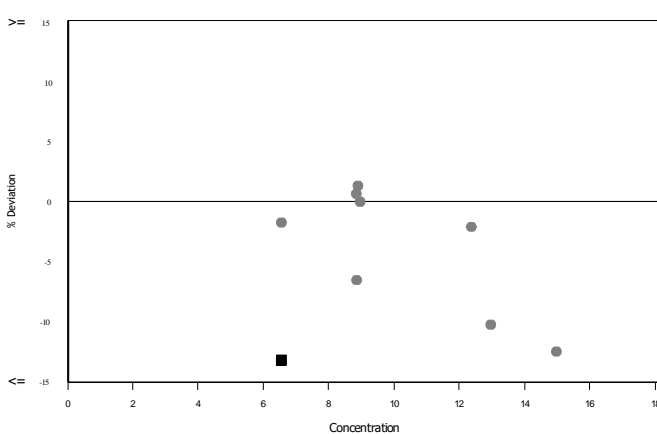
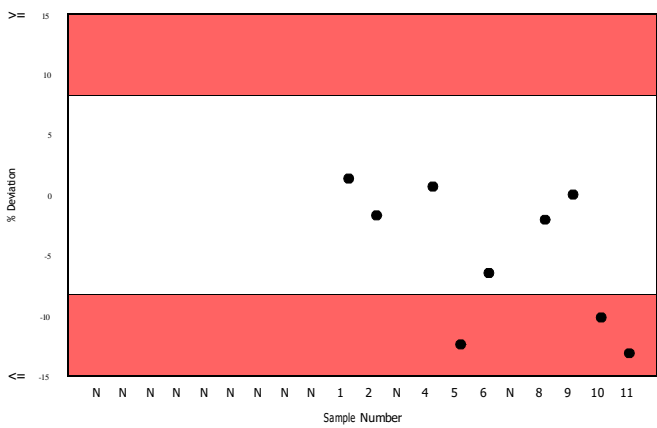
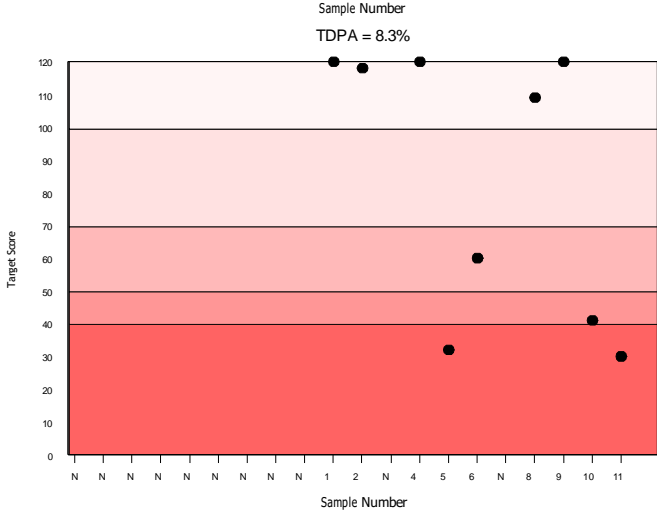
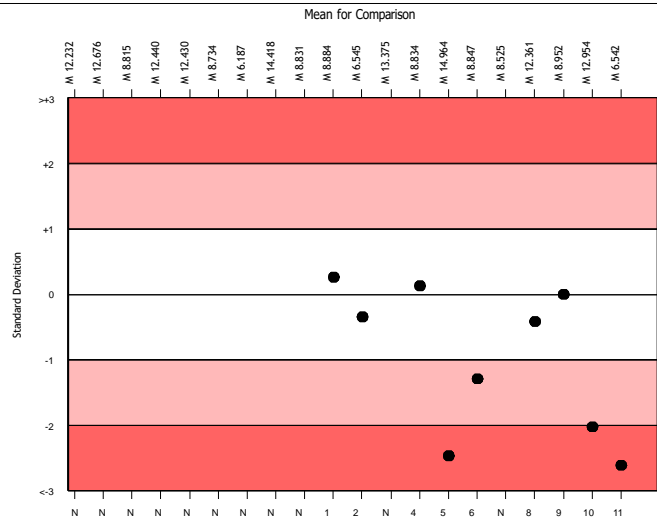
Acceptable limits of performance for RIQAS: 8.30 %

SDI in bottom 5% of peer group

TS & %DEV outside limits



Method	N	Mean	CV%	U _m
Arsenazo	2274	6.542	4.4	0.01
Cresolphthalein complexone	1167	6.372	4.5	0.01
NM-BAPTA	919	6.539	2.3	0.01
Ortho Vitros MicroSlide Systems	207	6.388	2.7	0.01
Ion selective electrode	106	6.743	8.1	0.07
Agappe - ARSENAZO	40	6.664	4.5	0.06
Other Dry Chemistry	29	6.494	4.2	0.06
Phosphonazo	23	6.661	6.6	0.11
Methylthymol blue	11	6.395	7.2	0.17
Agappe - OCPC	6	7.455	16.1	0.61
Optical Emission Spectroscopy	4	5.768	27.2	0.98
Atomic absorption	2	5.960	2.8	0.15
Vitros DT60/DT60 II/DTSC II	2	6.400	0.0	0.00

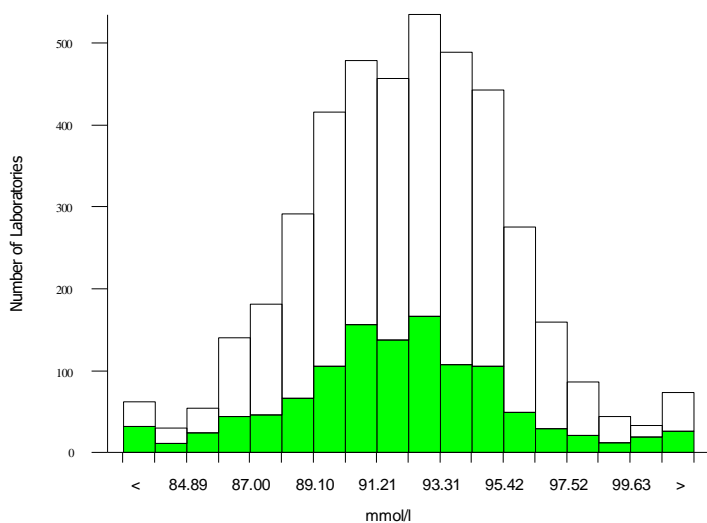
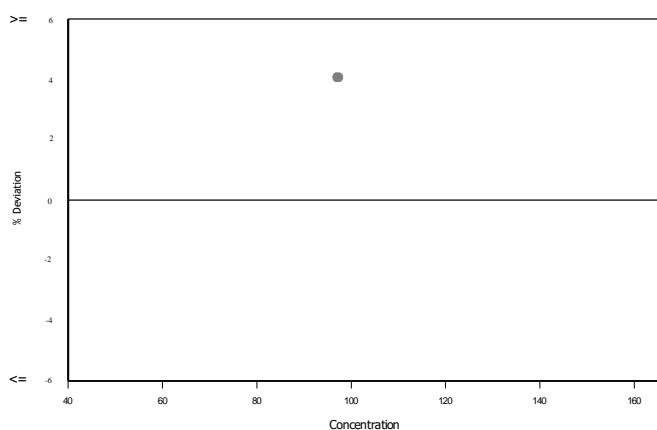
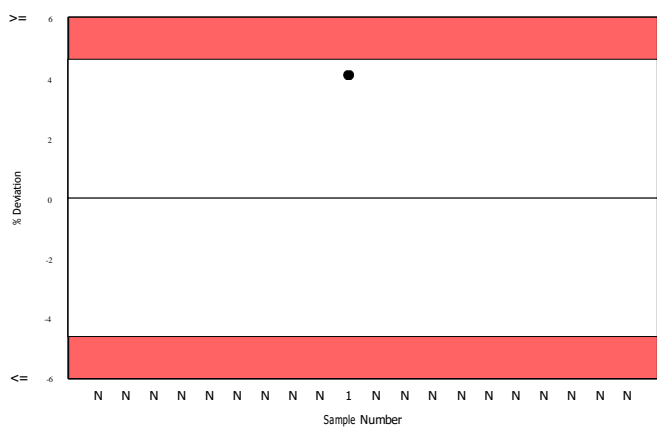
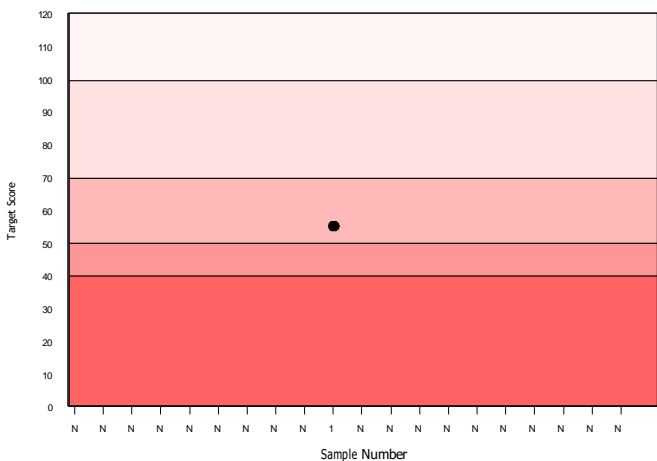
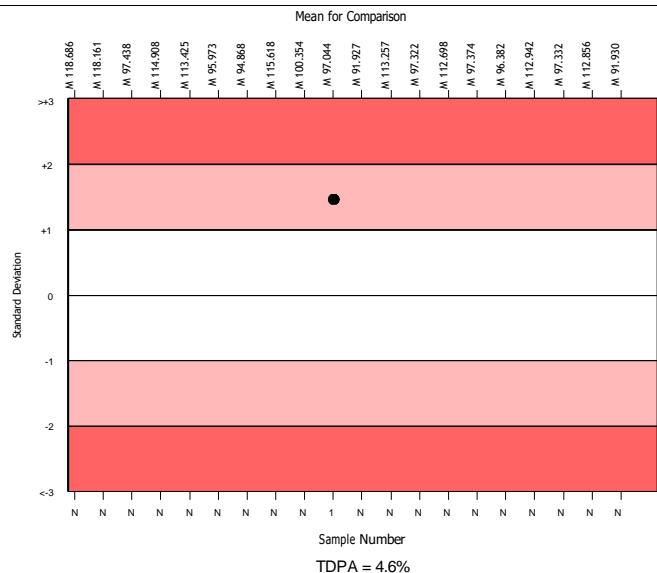


Chloride, mmol/l

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3962	92.264	3.0	0.06	2.58	281
ISE, direct	1067	91.930	3.2	0.11	2.57	89
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	Too Few
		RMSDI	
■ Mean for Comparison	91.930	TS	Too Few
		RMTS	
		%DEV	Too Few
		RM%DEV	

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



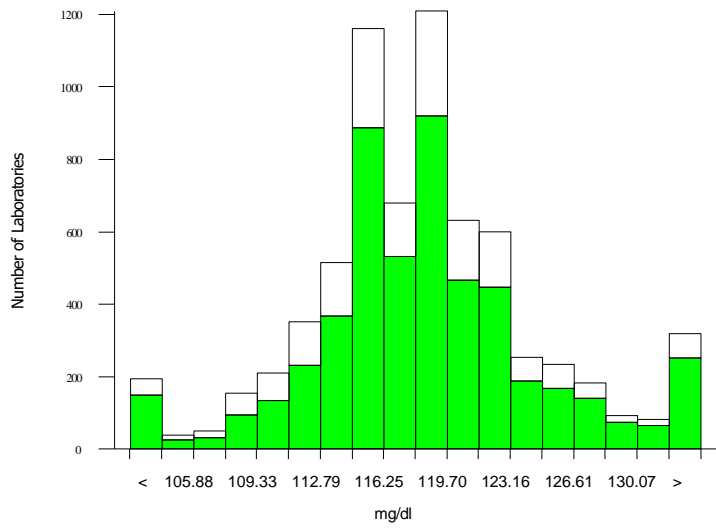
Method	N	Mean	CV%	U _m
ISE, indirect	2604	92.340	2.9	0.07
ISE, direct	1067	91.930	3.2	0.11
Ortho Vitros MicroSlide Systems	147	94.754	2.2	0.21
Colorimetric	113	92.708	4.1	0.45
Other Dry Chemistry	24	87.646	2.3	0.51
Agappe - THIOCYANATE	13	97.769	3.4	1.15
Optical Fluorescence	5	98.540	2.4	1.32
Vitros, DT60/DT60 II/DTE II	2	94.500	2.2	1.87

Cholesterol, mg/dl

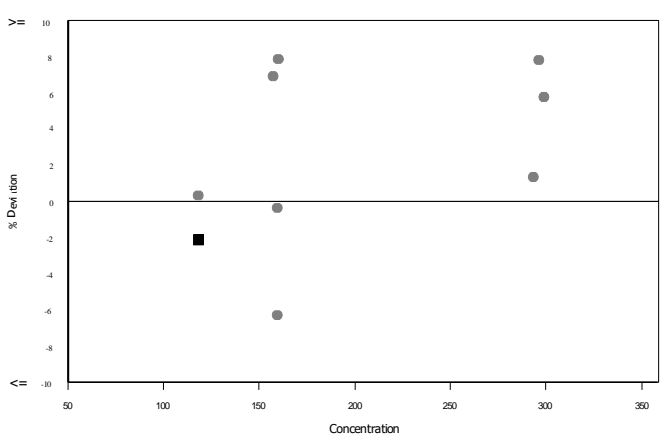
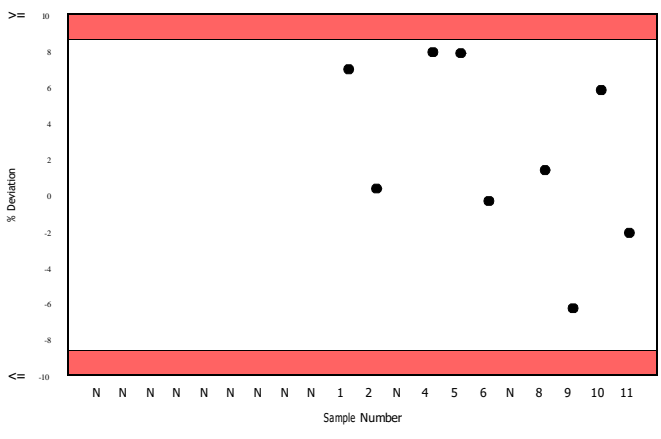
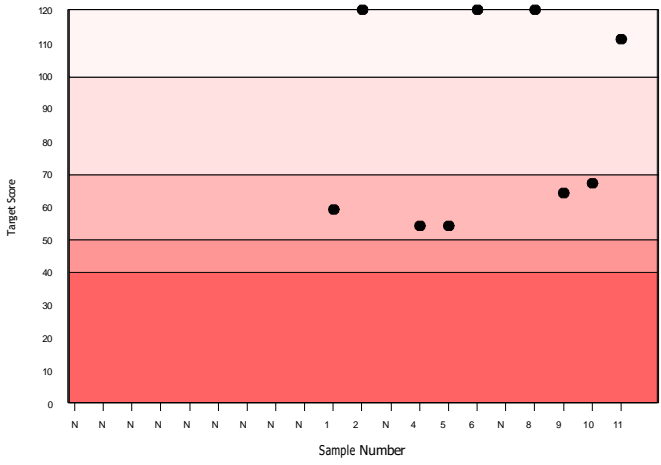
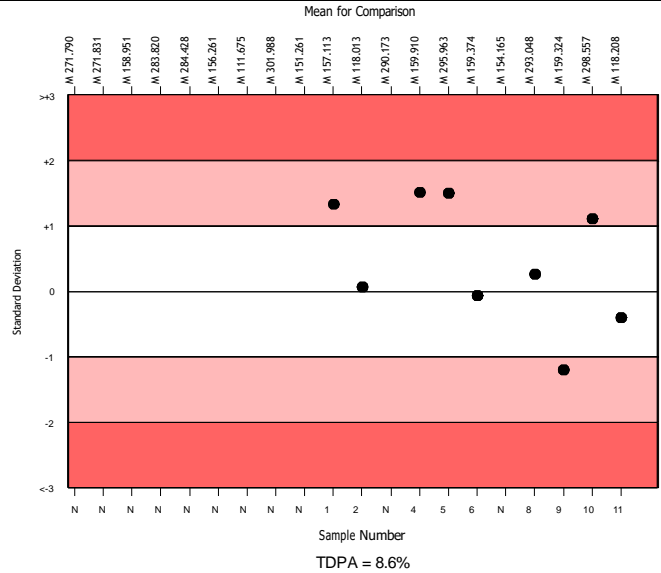
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6333	117.979	3.9	0.07	6.17	617
Cholesterol Oxidase - Abell Kendall	4719	118.208	3.9	0.08	6.18	446
Tulip Coralyzer 200	1	115.700	0.0	0.00	N/A	0

▲ Your Result	115.700	SDI	-0.41
		RMSDI	Too Few
■ Mean for Comparison	118.208	TS	111
		RMTS	Too Few
		%DEV	-2.1
		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	4719	118.208	3.9	0.08
Cholesterol Oxidase - IDMS	877	118.408	3.6	0.18
Siemens Dimension	245	116.929	3.0	0.28
Ortho Vitros MicroSlide Systems	230	112.451	3.7	0.35
Cholesterol Dehydrogenase	132	118.978	4.7	0.61
Agappe - CHOD-PAP	76	122.708	4.2	0.74
Other Dry Chemistry	39	115.090	4.6	1.05
Abbott Architect Cholesterol 2	17	117.888	1.8	0.64
Abbott Alinity Cholesterol 2	11	115.608	1.7	0.74
Dimension - non Siemens reagents	3	120.641	1.2	1.08
Vitros DT60/DT60 I/D/TSC II	3	110.256	8.8	6.98

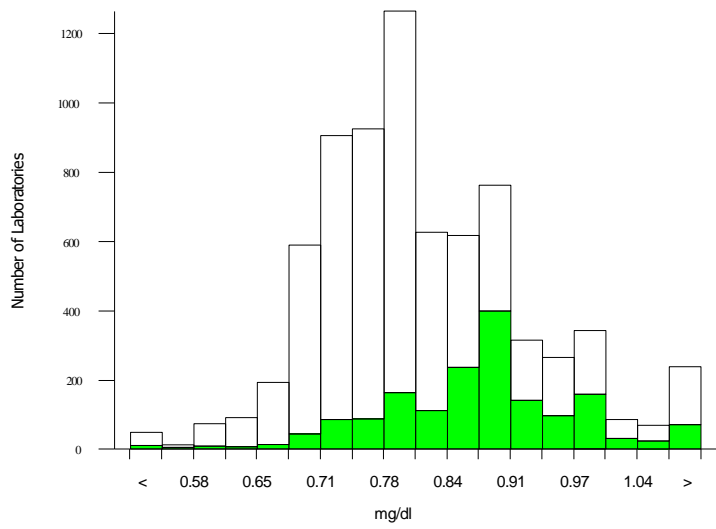


Creatinine, mg/dl

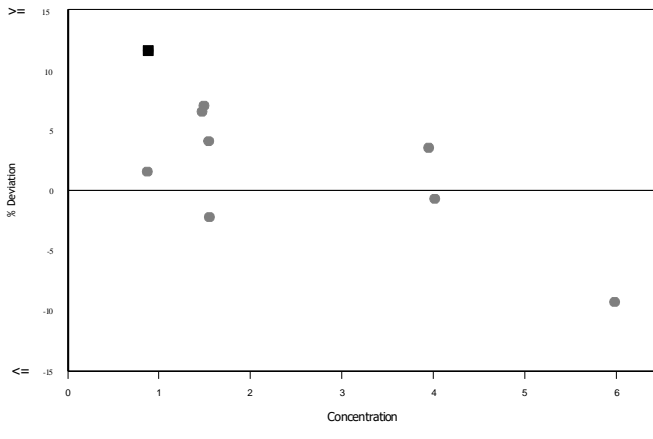
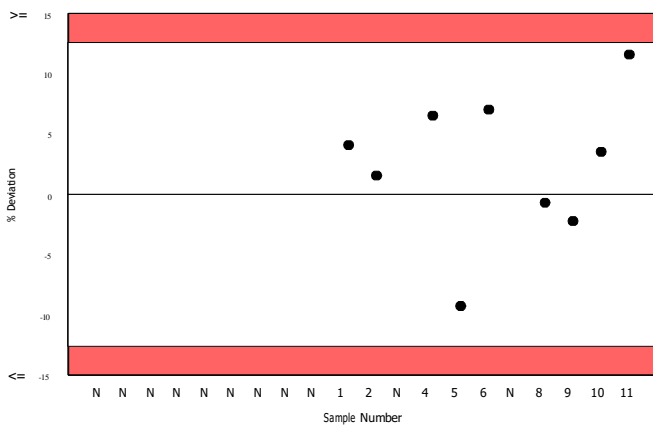
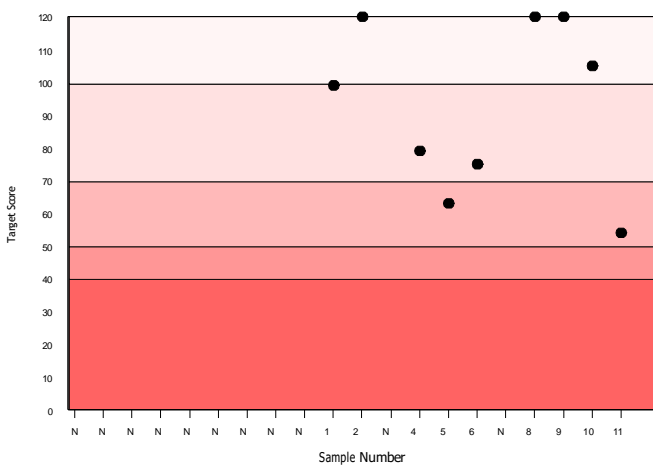
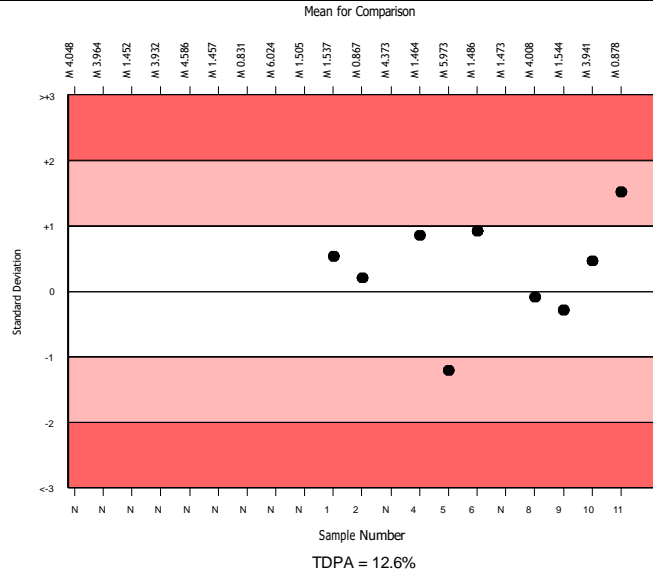
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6941	0.816	10.7	0.00	0.06	480
Jaffe rate blanked	1574	0.878	9.2	0.00	0.07	116
Tulip Coralyzer 200	1	0.980	0.0	0.00	N/A	0

▲ Your Result	0.980	SDI	1.51
		RMSDI	Too Few
■ Mean for Comparison	0.878	TS	54
		RMTS	Too Few
		%DEV	11.6
		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	1944	0.826	11.9	0.00
Jaffe rate blanked	1574	0.878	9.2	0.00
Jaffe rate blanked comp. (-26umol/l)	799	0.772	5.5	0.00
Jaffe rate comp. (-18umol/l)	378	0.765	7.3	0.00
Enzymatic UV method (340nm)	333	0.800	6.1	0.00
Creatinine PAP method	332	0.810	7.0	0.00
Roche Creatinine Plus	314	0.805	3.7	0.00
IDMS traceable	305	0.766	8.2	0.00
Other enzymatic methods	288	0.788	6.4	0.00
Vitros, IDMS traceable	157	0.694	3.9	0.00
Alkaline picrate with deproteinisation	142	0.832	10.9	0.01
Other Dry Chemistry	69	0.679	5.8	0.01
Jaffe rate blanked comp. (-33umol/l)	61	0.844	12.4	0.02
Agappe - JAFFE'S KINETIC	57	0.872	8.5	0.01
Vitros DT60/DT60 II/DTSC II	29	0.688	3.5	0.01
Agappe - ENZYMATIC	22	0.808	11.7	0.03
Abbott Architect Creatinine 2	14	0.760	4.8	0.01
Abbott Alinity Creatinine 2	4	0.751	4.2	0.02

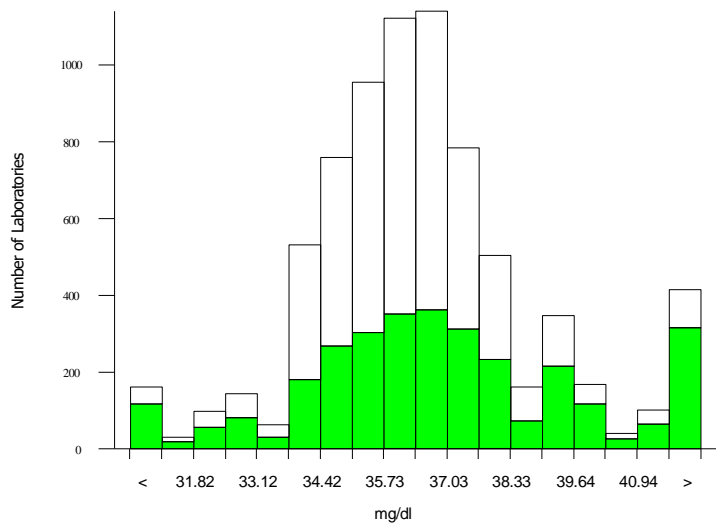


Glucose, mg/dl

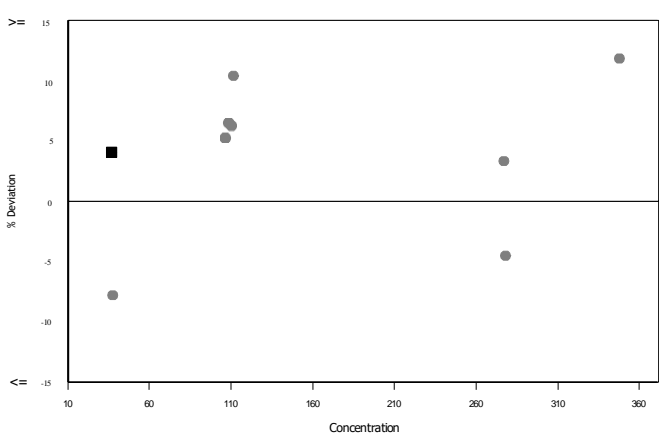
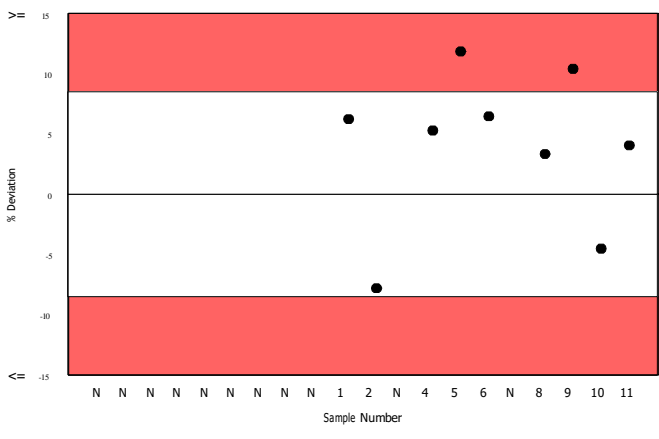
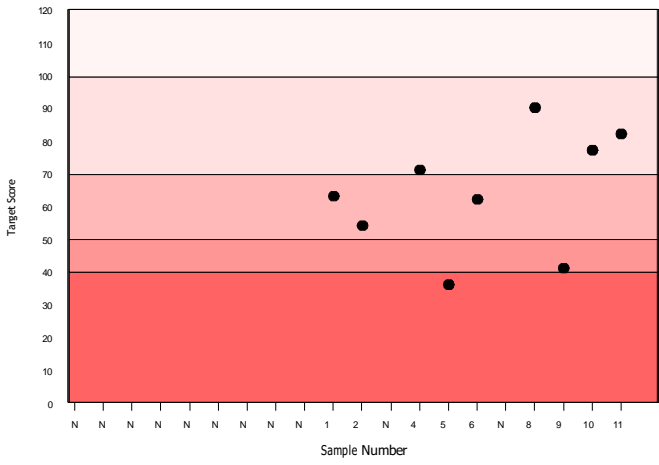
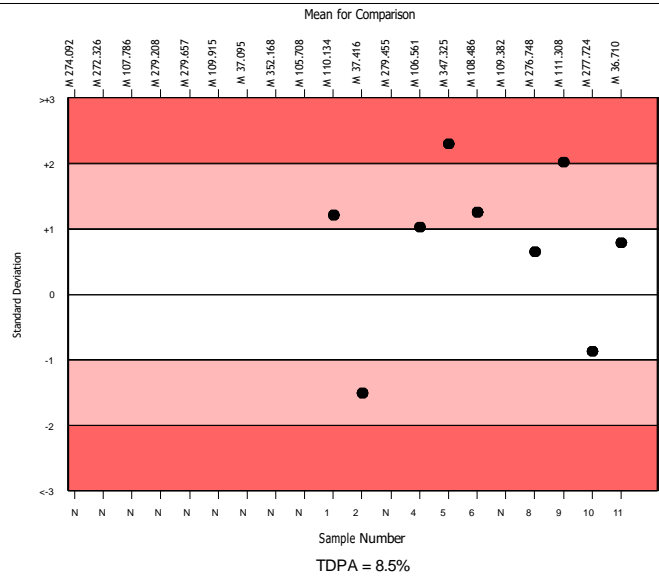
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6924	36.383	4.8	0.03	1.88	594
Glucose oxidase	2839	36.710	6.6	0.06	1.90	286
Tulip Coralyzer 200	2	37.100	4.2	1.37	2.36a	0

▲ Your Result	38.200	SDI	0.79
		RMSDI	Too Few
■ Mean for Comparison	36.710	TS	82
		RMTS	Too Few
		%DEV	4.1
		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	3620	36.270	3.4	0.03
Glucose oxidase	2839	36.710	6.6	0.06
Ortho Vitros MicroSlide Systems	228	34.492	4.2	0.12
Agappe - GOD-PAP	74	37.625	5.2	0.29
Glucose dehydrogenase	69	36.514	6.5	0.36
Other Dry Chemistry	41	35.527	2.9	0.20
GOD/02-Beckman method	34	36.156	4.1	0.31
Oxygen electrode	8	35.616	1.1	0.18
Vitros, DT60/DT60 II	5	36.386	3.5	0.72

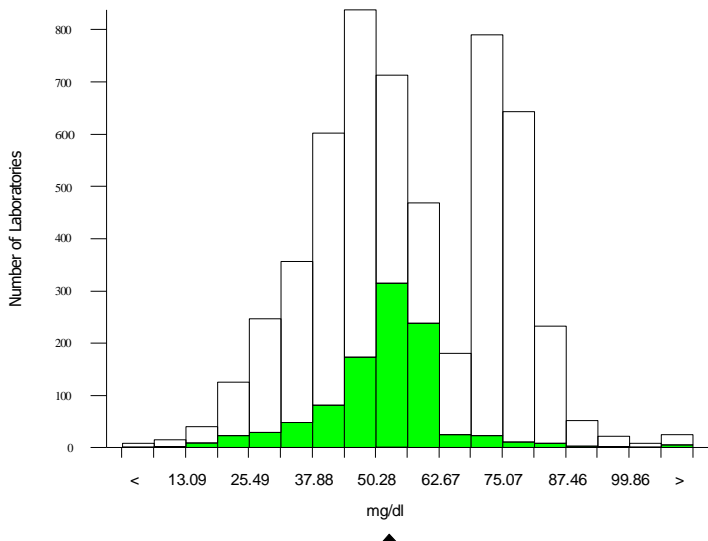


HDL-Cholesterol, mg/dl

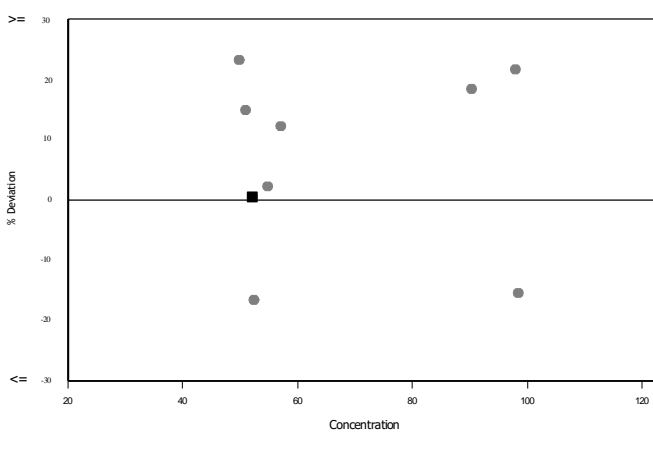
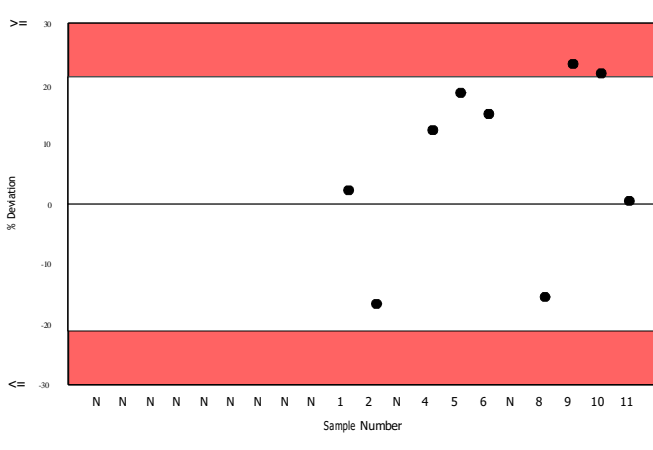
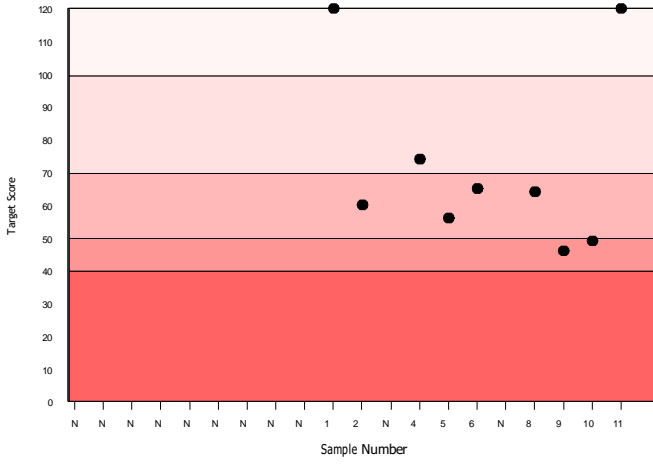
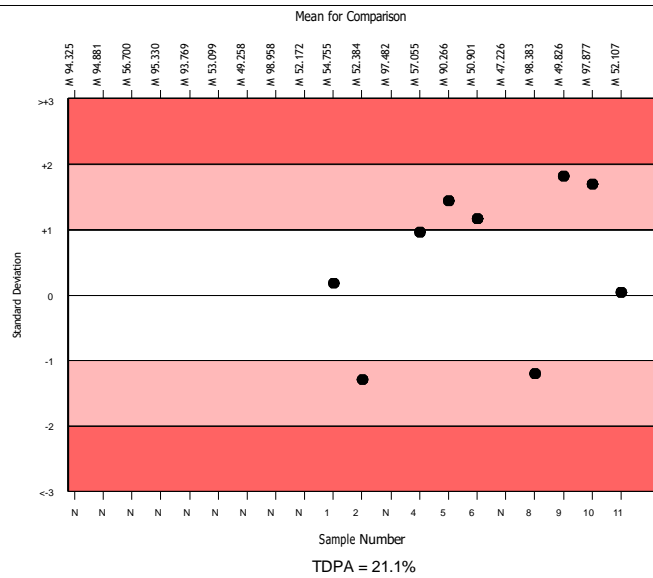
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5199	56.479	29.3	0.28	7.24	160
Direct HDL, Immunoseparation	901	52.107	14.9	0.32	6.68	95
Tulip Coralyzer 200	1	52.370	0.0	0.00	N/A	0

▲ Your Result	52.370	SDI	0.04
		RMSDI	Too Few
■ Mean for Comparison	52.107	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	21.10 %



Method	N	Mean	CV%	U _m
Direct HDL, Roche 4th gen.	1288	74.662	4.7	0.12
Direct HDL, Clearance method	1021	40.818	22.8	0.36
Direct HDL, Immunoseparation	901	52.107	14.9	0.32
HDL Ultra/Accel Selective Detergent	520	45.635	9.0	0.22
Direct HDL, PEGME	532	56.437	40.9	1.25
Direct HDL, PPD	349	56.450	28.7	1.08
Vitros dHDL, PTA/MgCl2 direct precip.	169	53.200	6.7	0.34
Agappe - SELECTIVE INHIBITION	60	68.062	9.8	1.08
Other Dry Chemistry	53	68.777	36.8	4.34
Vitros, Magnetic HDL	25	52.195	6.1	0.80
Vitros 5.1 FS Microtip assay	12	52.209	2.8	0.53

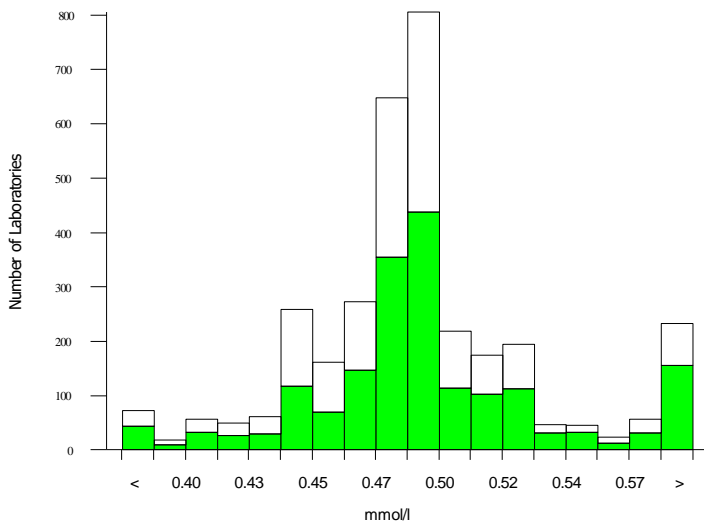
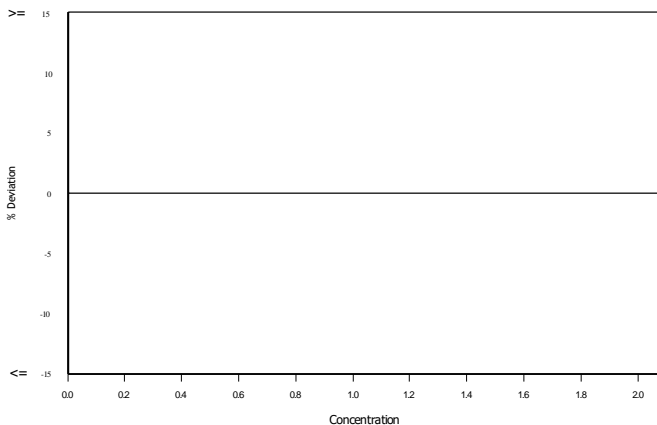
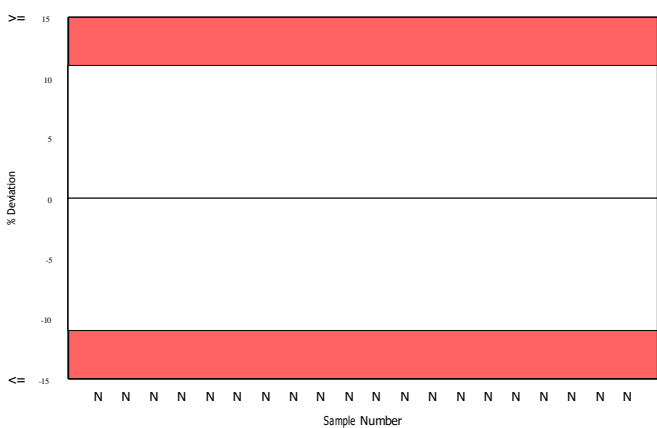
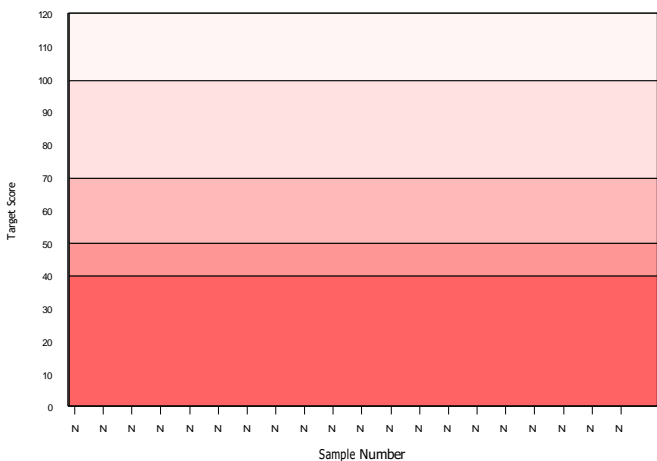
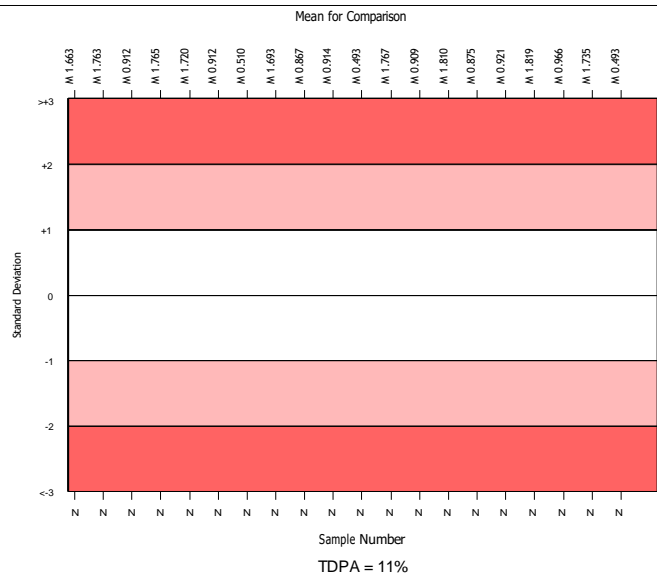


Magnesium, mmol/l

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3093	0.490	6.4	0.00	0.03	295
Xylidyl Blue	1681	0.493	6.9	0.00	0.03	170
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	RMSDI	Too Few
▲ Mean for Comparison	0.493	TS	RMTS	Too Few
		%DEV	RM%DEV	Too Few

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



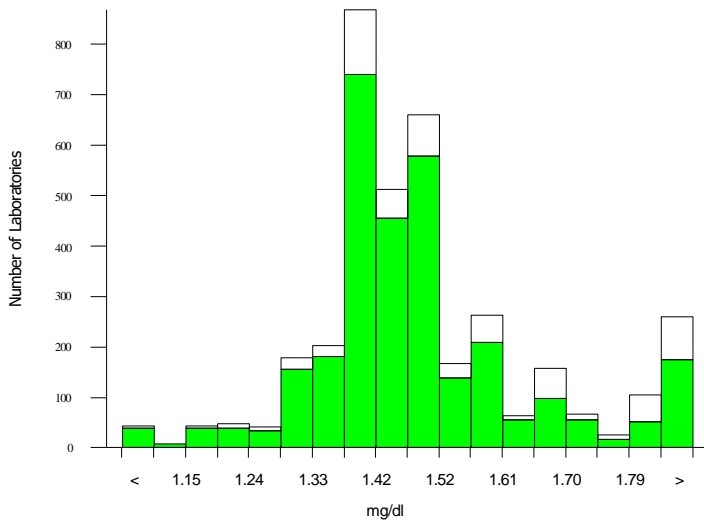
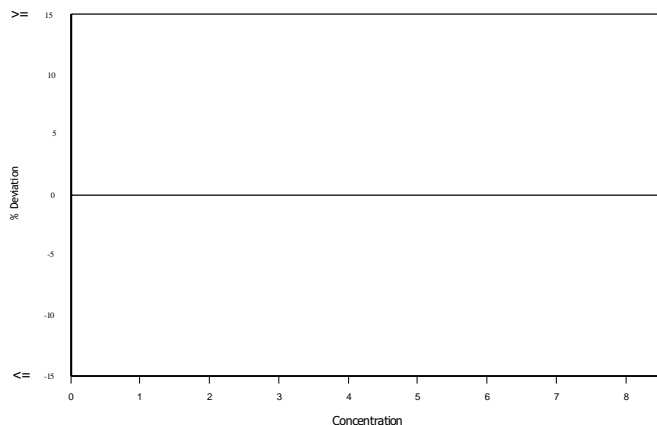
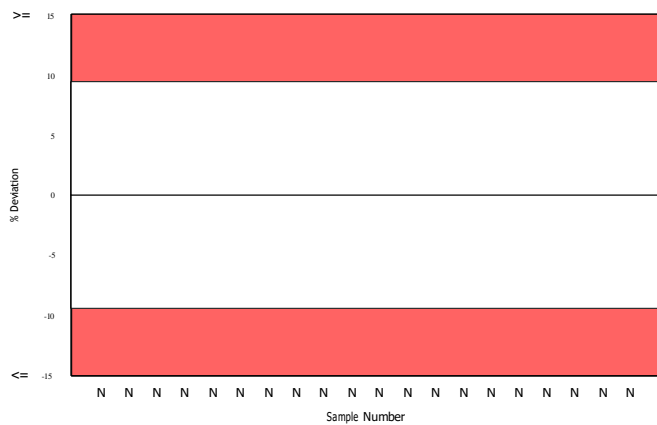
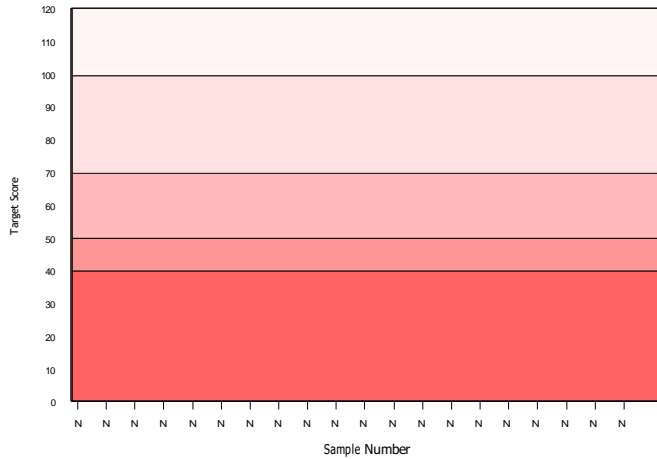
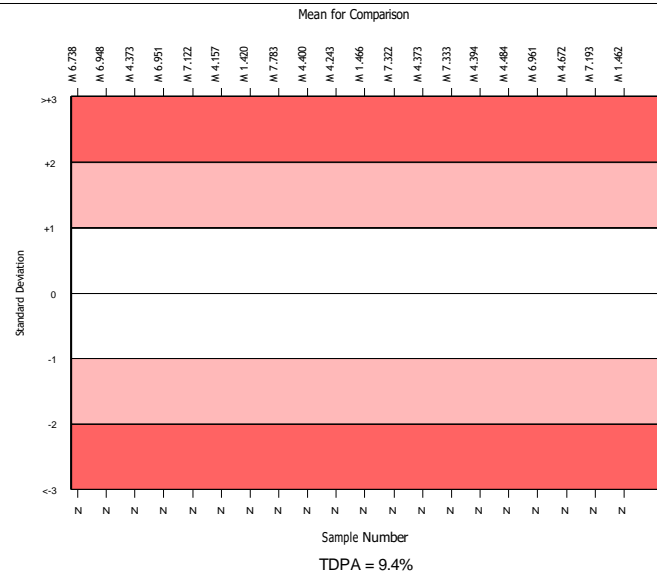
Method	N	Mean	CV%	U _m
Xylidyl Blue	1681	0.493	6.9	0.00
Enzymatic	352	0.491	4.0	0.00
Chlorophosphonazo III	324	0.490	4.0	0.00
Methylthymol blue	232	0.474	6.6	0.00
Ortho Vitros MicroSlide Systems	177	0.493	7.4	0.00
Calmagite	118	0.497	8.6	0.00
Arsenazo	80	0.486	3.7	0.00
Atomic absorption	52	0.486	5.0	0.00
Agappe - XYLIDYL BLUE	33	0.548	14.9	0.02
Other Dry Chemistry	16	0.461	3.9	0.01
Other magnesium dyes	7	0.477	16.5	0.04
Vitros, DT60/DT60 II/DTSC II	2	0.497	1.0	0.00

Phosphate, Inorganic, mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3369	1.475	8.2	0.00	0.08	334
Phosphomolybdate UV	2772	1.462	7.2	0.00	0.08	284
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	RMSDI	Too Few
▲ Mean for Comparison	1.462	TS	RMTS	Too Few
		%DEV	RM%DEV	Too Few

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



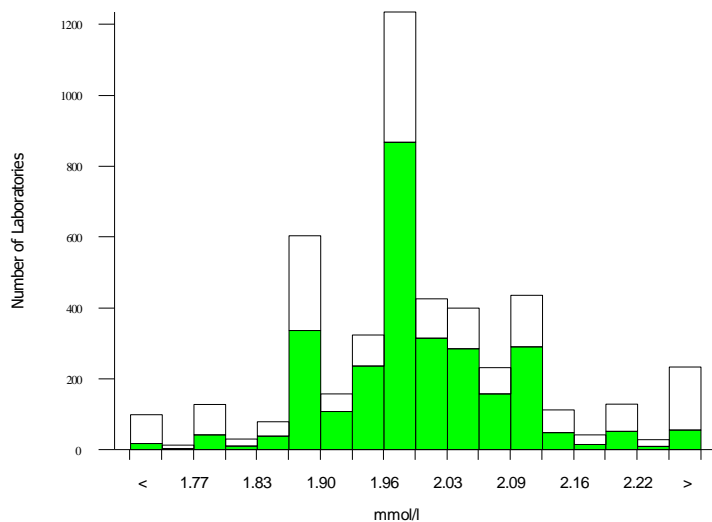
Method	N	Mean	CV%	U _m
Phosphomolybdate UV	2772	1.462	7.2	0.00
Phosphomolybdate enzymatic	295	1.443	5.5	0.01
Ortho Vitros MicroSlide Systems	176	1.788	6.2	0.01
Beckman PHOSm kit (365nm)	41	1.452	4.9	0.01
Agappe - PHOSPHOMOLYBDATE	38	1.503	5.3	0.02
Other Dry Chemistry	15	1.687	3.9	0.02
Other methods, no protein ppt	5	1.478	9.2	0.08
Other methods, with protein ppt	3	1.633	12.0	0.14
Vitros, DT60/DT60 II/DTSC II	2	1.655	3.8	0.06

Potassium, mmol/l

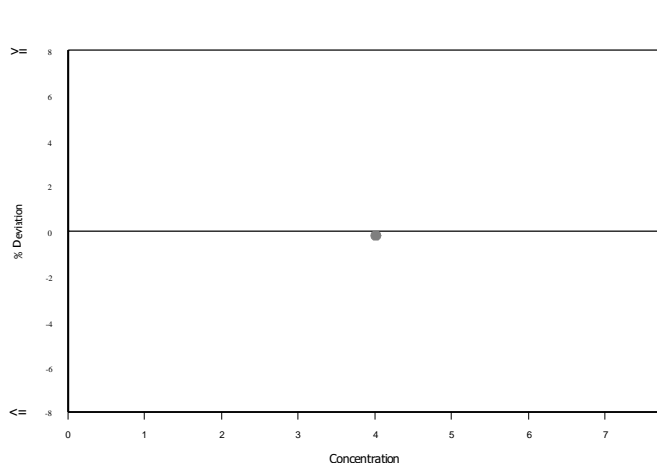
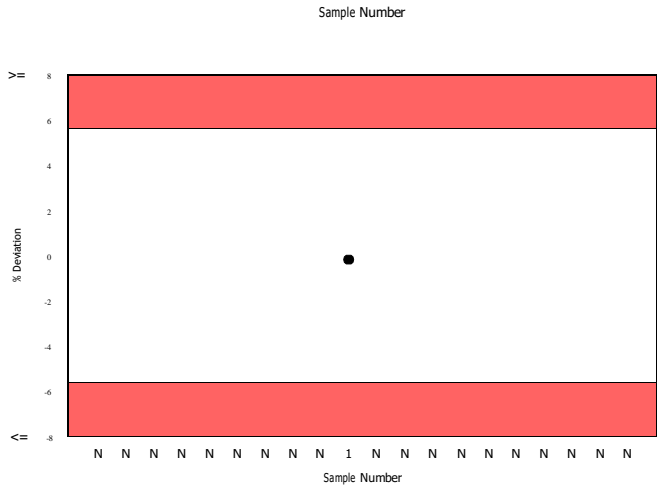
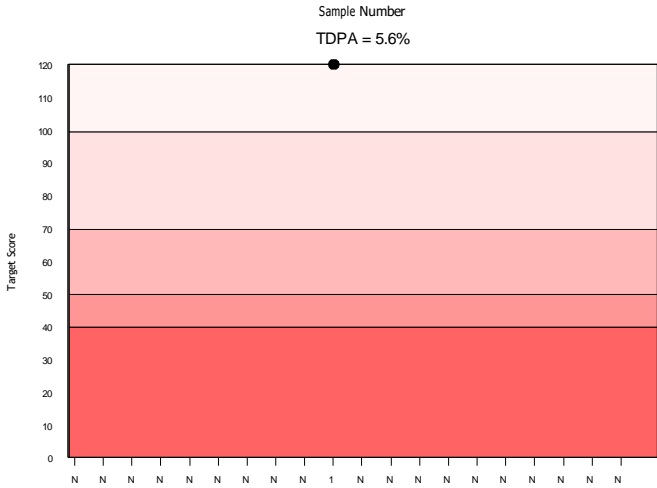
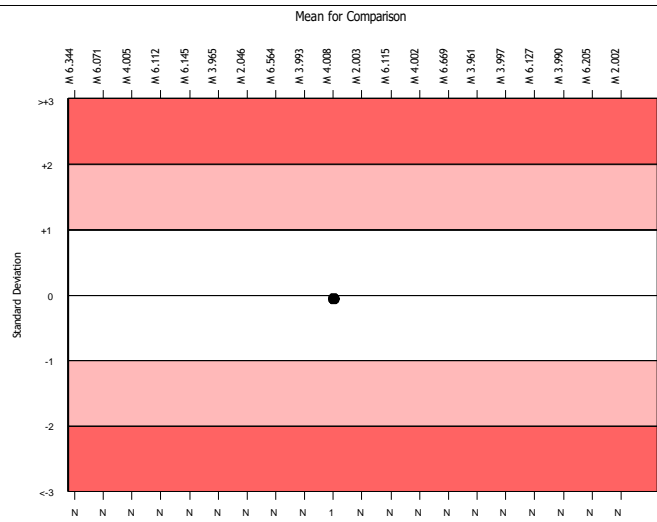
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4321	2.001	4.3	0.00	0.07	381
ISE method - indirect	2681	2.002	3.3	0.00	0.07	201
Tulip Coralyzer 200	0					

▲ Your Result	No Result	SDI	RMSDI	Too Few
▲ Mean for Comparison	2.002	TS	RMTS	Too Few
		%DEV	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	2681	2.002	3.3	0.00
ISE method - direct	1336	2.008	6.6	0.00
Ortho Vitros MicroSlide Systems	172	1.973	2.4	0.00
Colorimetric	53	1.869	11.3	0.04
Other Dry Chemistry	24	1.904	2.4	0.01
Agappe - ISE DIRECT	21	1.977	2.7	0.01
Flame photometry	14	1.991	3.6	0.02
Enzymatic	10	2.098	6.4	0.05
Turbidimetric	10	2.040	8.3	0.07
Optical Fluorescence	6	1.908	6.6	0.06
Vitros, DT60/DT60 II/DTE II	5	1.992	0.9	0.01

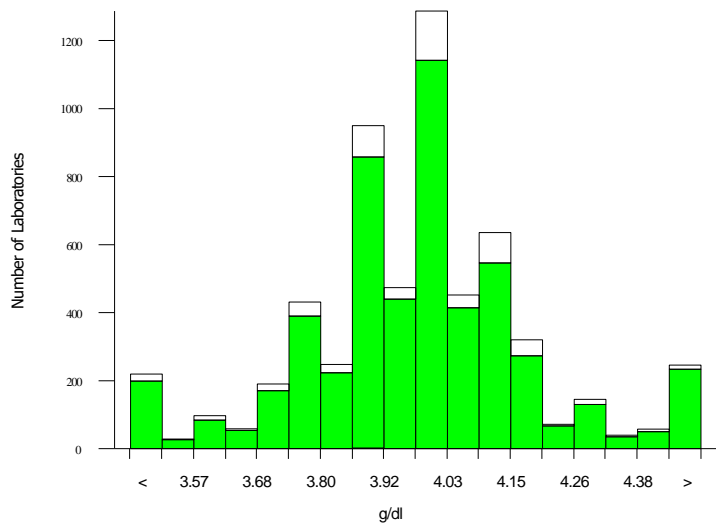


Protein, Total, g/dl

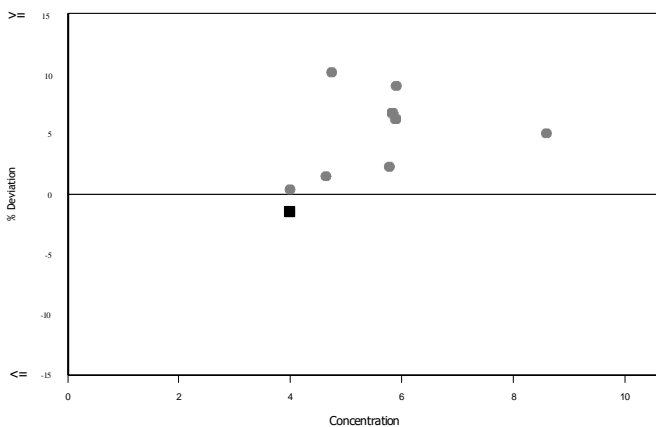
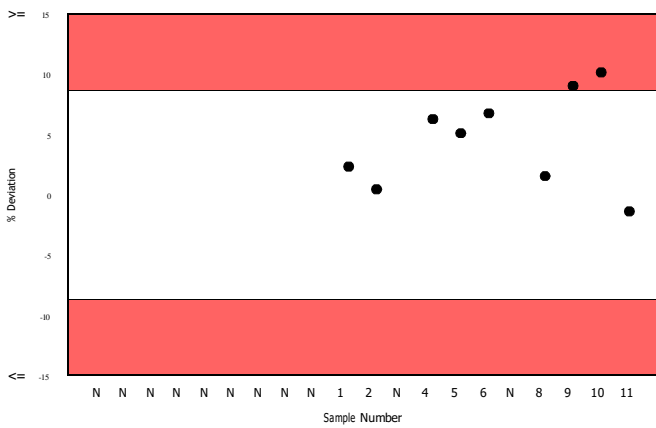
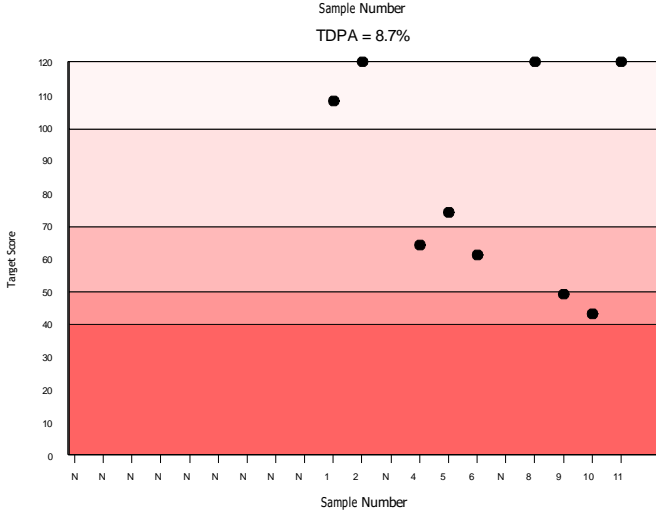
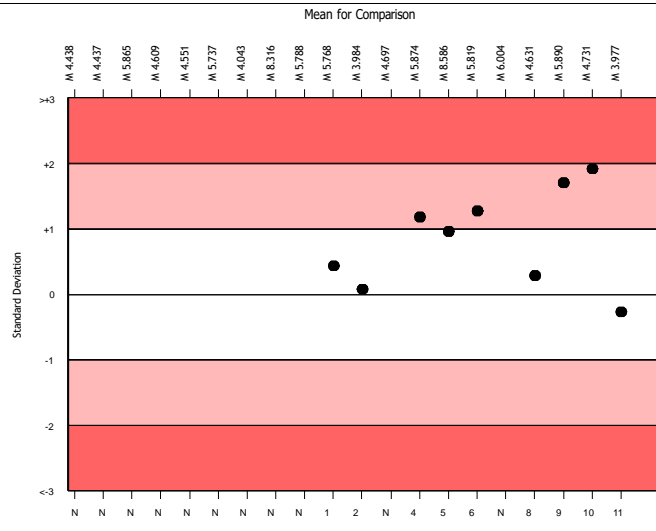
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5483	3.979	3.9	0.00	0.21	473
Biuret reaction, end point	4903	3.977	3.9	0.00	0.21	436
Tulip Coralyzer 200	2	3.910	0.4	0.01	0.21	0

▲ Your Result	3.920	SDI RMSDI	-0.27 Too Few
■ Mean for Comparison	3.977	TS RMTS	120 Too Few
		%DEV RM%DEV	-1.4 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	4903	3.977	3.9	0.00
Ortho Vitros MicroSlide Systems	208	4.047	3.0	0.01
Biuret reaction, kinetic	172	3.953	3.4	0.01
Agappe - BIURET	59	3.940	4.1	0.03
Biuret reaction, CX4/5/7	40	3.966	2.3	0.02
Other Dry Chemistry	44	4.017	4.0	0.03
Abbott Alinity Total Protein 2	13	3.932	1.3	0.02
Abbott Architect total Protein 2	11	3.950	1.5	0.02
Refractometry	3	4.040	3.7	0.11
Vitros, DT60/DT60 II	2	4.070	1.0	0.04



Trig Total, mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5954	20.272	16.2	0.05	1.89	696
Lipase/GK UV. no correction	468	19.886	17.2	0.19	1.86	59
Tulip Coralyzer 200	1	33.300	0.0	0.00	N/A	0

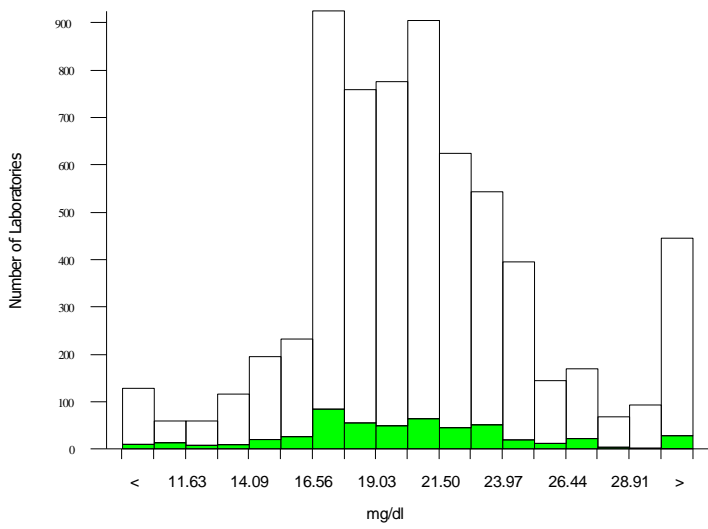
▲ Your Result	33.300	SDI	7.22
		RMSDI	Too Few
■ Mean for Comparison	19.886	TS	10
		RMTS	Too Few
		%DEV	67.5
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation: N/A

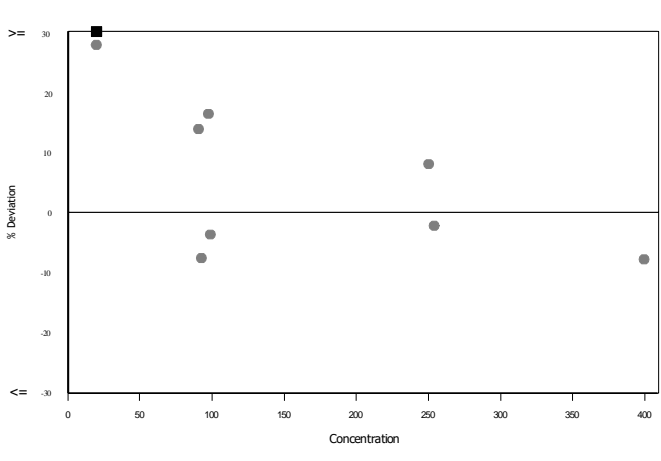
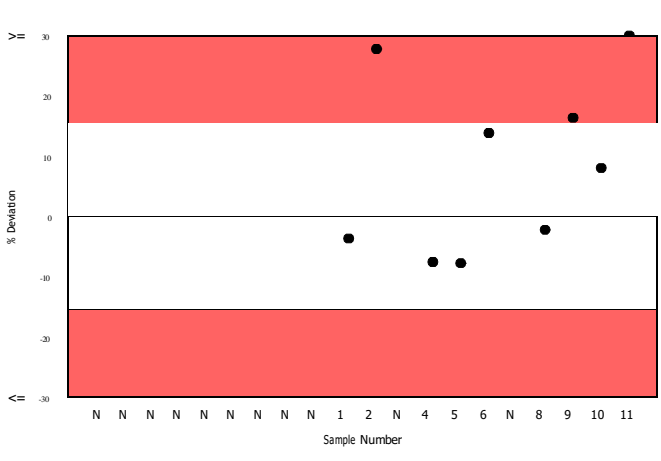
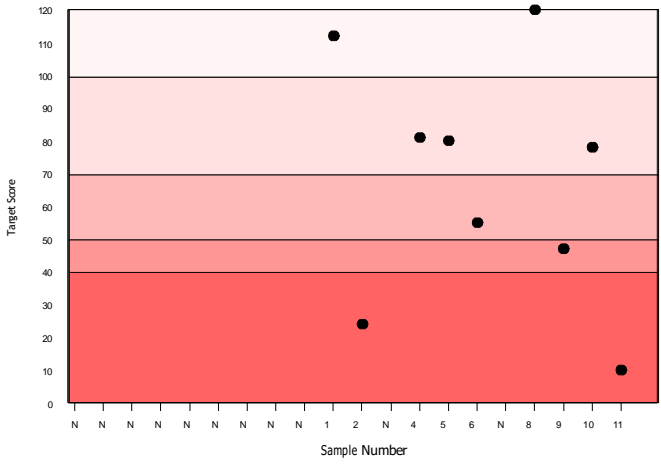
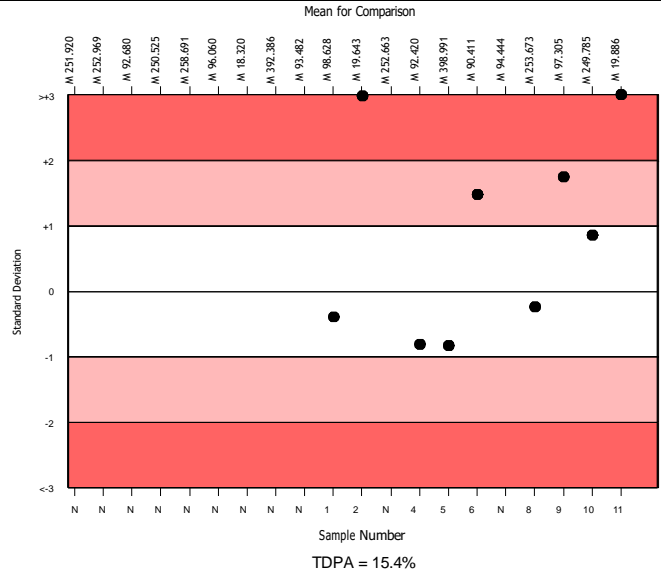
Acceptable limits of performance for RIQAS: 15.40 %

SDI in bottom 5% of peer group

TS & %DEV outside limits



Method	N	Mean	CV%	U _m
Lipase/GPO-PAP no correction	4384	20.329	16.2	0.06
Lipase/GK UV. no correction	468	19.886	17.2	0.19
Lipase/Glycerol Dehydrogenase	348	20.286	15.6	0.20
Lipase/GPO-PAP, 0.11 mmol/l correction	276	21.348	14.3	0.22
Ortho Vitros MicroSlide Systems	216	20.015	8.3	0.13
Lipase/GK UV., 0.11 mmol/l correction	91	21.097	12.8	0.35
Agappe - GPO - TOPS	70	17.233	13.2	0.34
Siemens Dimension	61	14.576	25.6	0.59
Other Dry Chemistry	37	13.262	46.4	1.27
Vitros DT60/DT60 II/DTSC II	4	28.095	40.0	7.03
Abbott Alinity Triglyceride 2	3	17.799	0.9	0.12



Urea, mg/dl

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6630	14.034	8.7	0.02	1.07	671
Urease, kinetic	5726	14.106	7.9	0.02	1.07	559
Tulip Coralyzer 200	2	17.550	3.6	0.56	1.45a	0

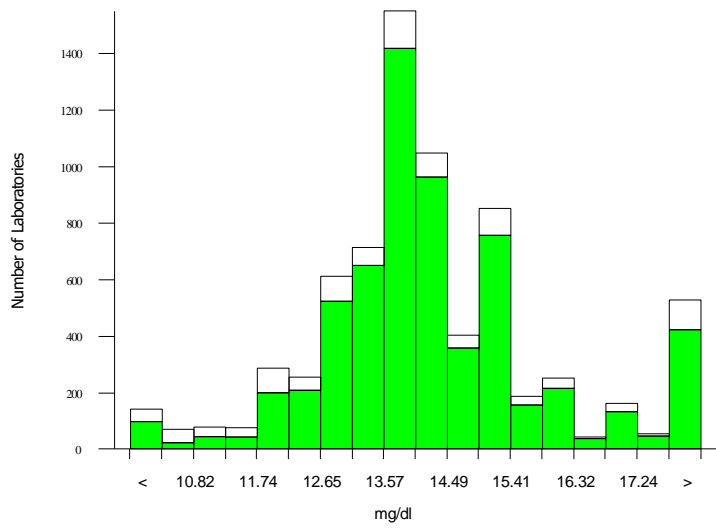
▲ Your Result	17.100	SDI	2.79
		RMSDI	Too Few
■ Mean for Comparison	14.106	TS	27
		RMTS	Too Few
		%DEV	21.2
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation N/A

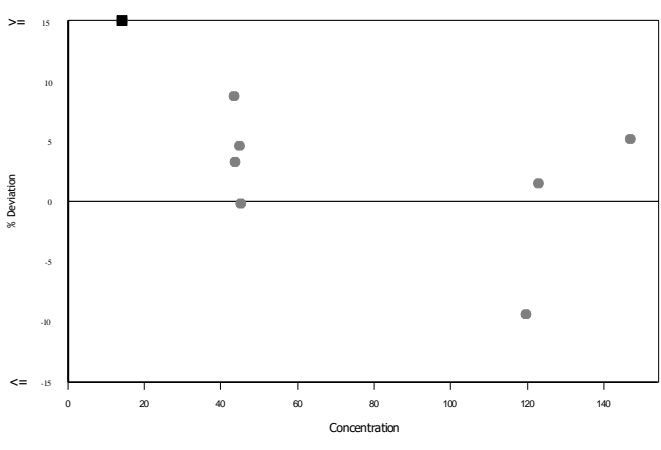
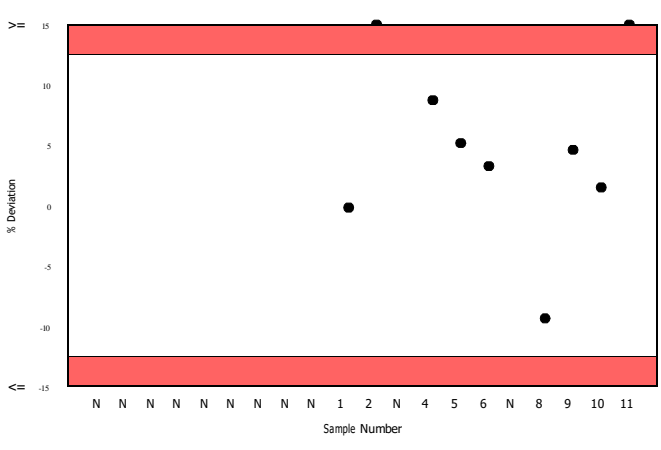
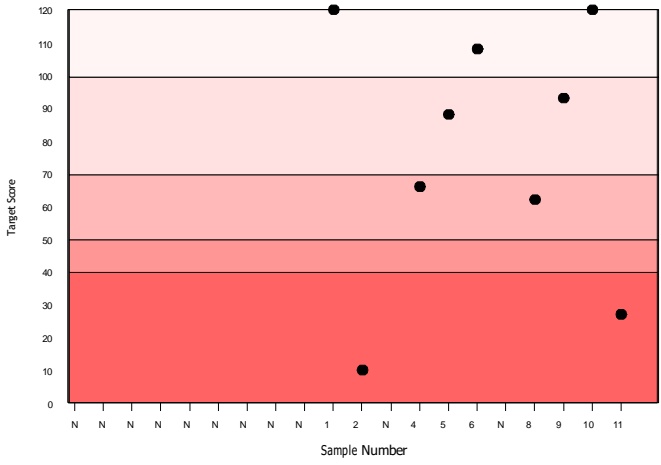
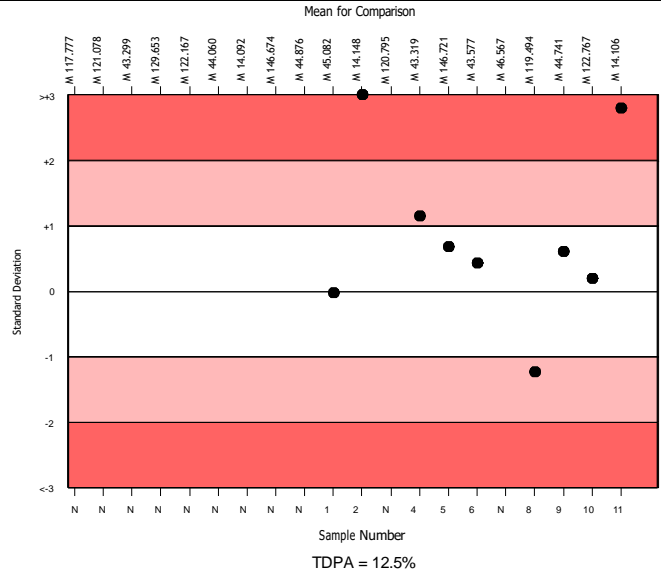
Acceptable limits of performance for RIQAS 12.50 %

SDI in bottom 5% of peer group

TS & %DEV outside limits



Method	N	Mean	CV%	U _m
Urease, kinetic	5726	14.106	7.9	0.02
Urease, end point	390	14.251	11.6	0.10
Ortho Vitros MicroSlide Systems	232	11.703	7.8	0.07
Urease, hypochlorite	97	15.303	12.3	0.24
Agappe - UREASE GLDH	62	14.515	6.9	0.16
Other Dry Chemistry	45	13.530	3.5	0.09
Beckman - Conductivity	30	14.562	4.9	0.16
Abbott Architect Urea Nitrogen 2	19	14.761	3.4	0.14
Agappe - BERTHELOT	12	13.539	9.1	0.44
Vitros DT60/DT60 II	4	12.997	2.3	0.19
O-Phthalaldehyde	4	14.693	13.2	1.21
Diacetyl monoxime	3	22.229	34.4	5.51

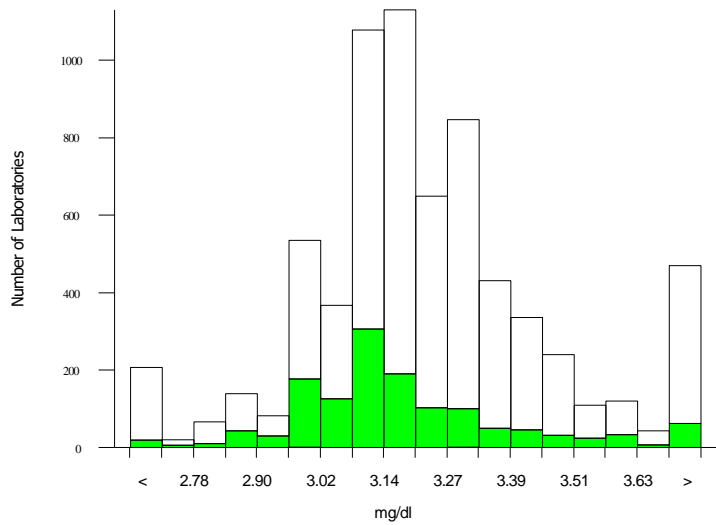


Uric Acid (Urate), mg/dl

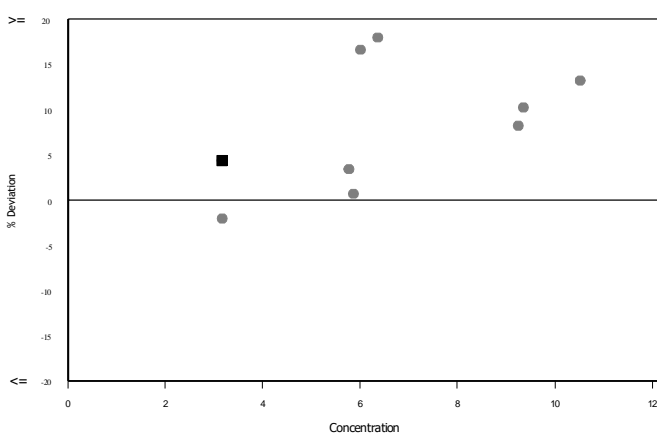
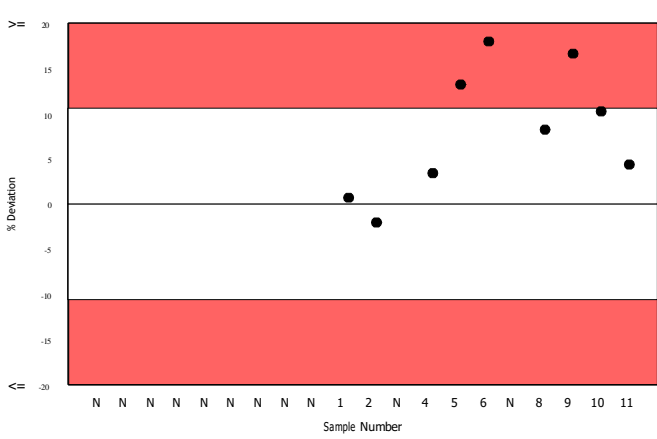
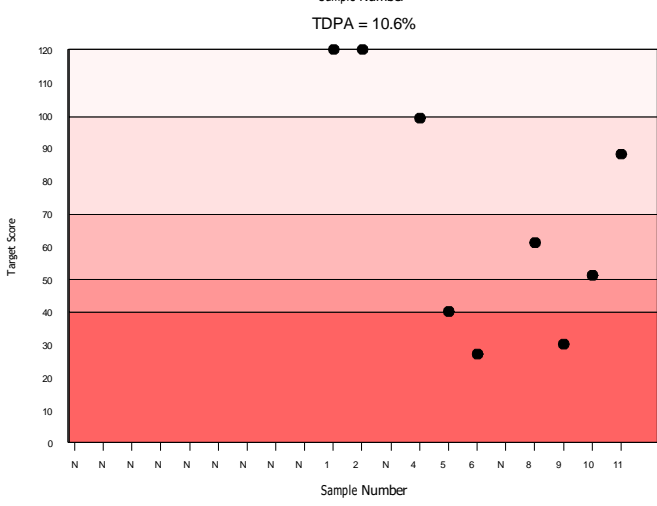
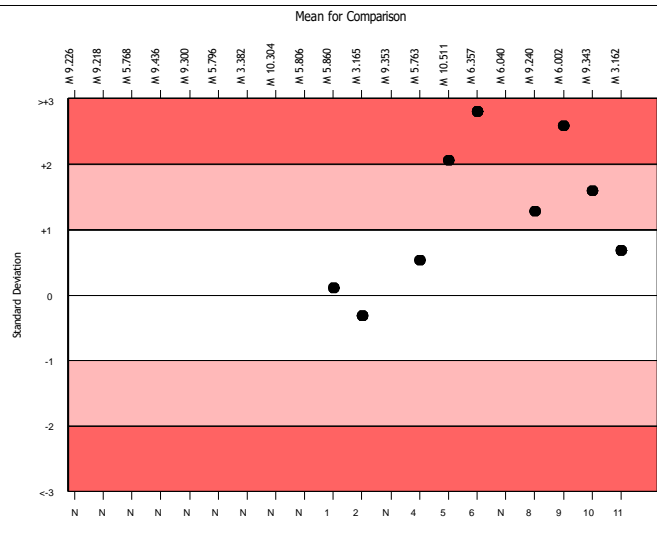
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6171	3.211	5.1	0.00	0.21	699
Uricase Perox. with ascorb. ox @ 546nm	1271	3.162	5.1	0.01	0.20	95
Tulip Coralyzer 200	2	3.150	6.7	0.19	0.27a	0

▲ Your Result	3.300	SDI	0.68
		RMSDI	Too Few
■ Mean for Comparison	3.162	TS	88
		RMTS	Too Few
		%DEV	4.4
		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.	2520	3.225	5.8	0.00
Uricase Perox. with ascorb. ox	1761	3.241	4.7	0.00
Uricase Perox. with ascorb. ox @ 546nm	1271	3.162	5.1	0.01
Ortho Vitros MicroSlide Systems	221	3.126	2.5	0.01
Uricase @ 293 nm	192	3.184	3.4	0.01
Uricase, catalase 340nm.	111	3.193	3.0	0.01
Agappe - URICASE - PAP	43	3.315	5.9	0.04
Other Dry Chemistry	26	3.594	4.5	0.04
Agappe - URICASE - TOPS	23	3.333	6.0	0.05
Abbott Architect Uric Acid 2	19	3.168	2.4	0.02
Reduction methods	14	3.270	5.7	0.06
Abbott Alinity Uric Acid 2	12	3.151	1.6	0.02
Vitros DT60/DT60 II	4	3.446	15.7	0.34



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Analyte	Mean for Comparison	Your Result	SDI	RMSDI	%DEV	RM%DEV	TS	RMTS	Performance
Albumin	2.198	2.160	<u>1.18</u>	Too Few	<u>-1.72</u>	Too Few	<u>38</u>	Too Few	
Alkaline Phosphatase	18.806	22.000	<u>1.97</u>	Too Few	<u>16.9</u>	Too Few	<u>10</u>	Too Few	
ALT (GPT)	12.133	14.300	1.95	Too Few	<u>17.9</u>	Too Few	<u>43</u>	Too Few	
AST (GOT)	12.273	10.900	-1.24	Too Few	-11.2	Too Few	62	Too Few	
Bilirubin, Direct	0.417	0.290	-1.95	Too Few	<u>-30.5</u>	Too Few	<u>43</u>	Too Few	
Bilirubin, Total	0.903	1.010	1.23	Too Few	11.9	Too Few	63	Too Few	
Calcium	6.542	5.980	<u>-1.61</u>	Too Few	<u>-8.59</u>	Too Few	<u>30</u>	Too Few	
Chloride	91.930	No Result		Too Few		Too Few		Too Few	
Cholesterol	118.208	115.700	-0.41	Too Few	-2.1	Too Few	111	Too Few	
Creatinine	0.878	0.980	1.51	Too Few	11.6	Too Few	54	Too Few	
Glucose	36.710	38.200	0.79	Too Few	4.1	Too Few	82	Too Few	
HDL-Cholesterol	52.107	52.370	0.04	Too Few	0.5	Too Few	120	Too Few	
Magnesium	0.493	No Result		Too Few		Too Few		Too Few	
Phosphate, Inorganic	1.462	No Result		Too Few		Too Few		Too Few	
Potassium	2.002	No Result		Too Few		Too Few		Too Few	
Protein, Total	3.977	3.920	-0.27	Too Few	-1.4	Too Few	120	Too Few	
Trig Total	19.886	23.300	<u>1.22</u>	Too Few	<u>17.6</u>	Too Few	<u>10</u>	Too Few	
Urea	14.106	15.100	<u>1.79</u>	Too Few	<u>7.04</u>	Too Few	<u>27</u>	Too Few	
Uric Acid (Urate)	3.162	3.300	0.68	Too Few	4.4	Too Few	88	Too Few	

ORMSDI N/A

ORM%DEV N/A

ORMTS N/A

END OF REPORT

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