

Dena Laboratory

# MONTHLY IMMUNOASSAY

CYCLE 16 SAMPLE 3

## 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: 29/03/2018

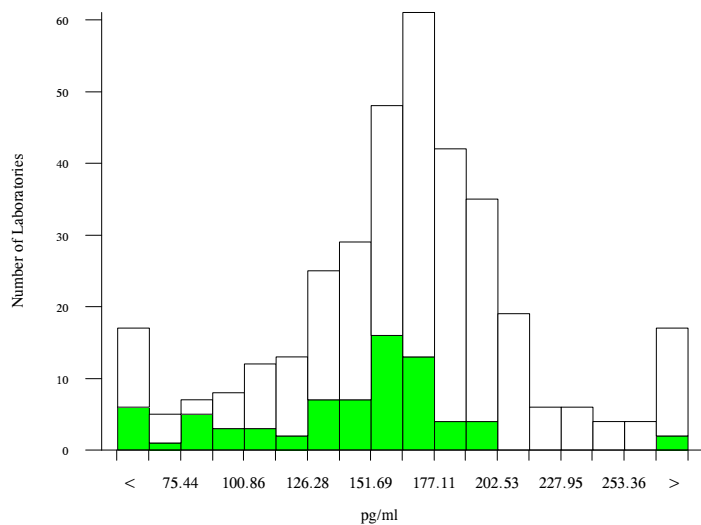
Randox Laboratories Limited  
55 Diamond Road  
CRUMLIN BT29 4QY  
Tel: +44 (0)28 9445 4399  
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Email: mail@riqas.com

# ACTH, pg/ml

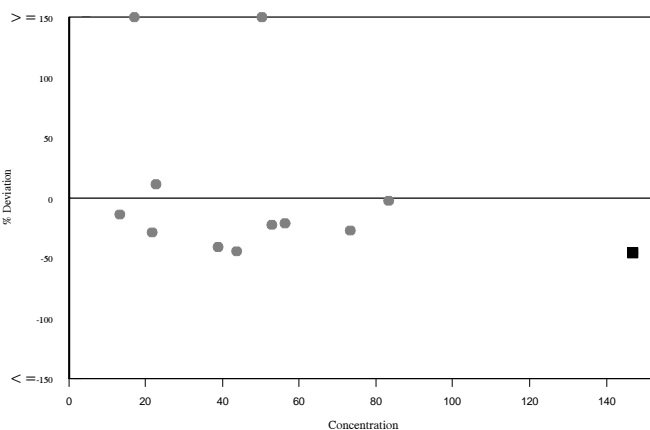
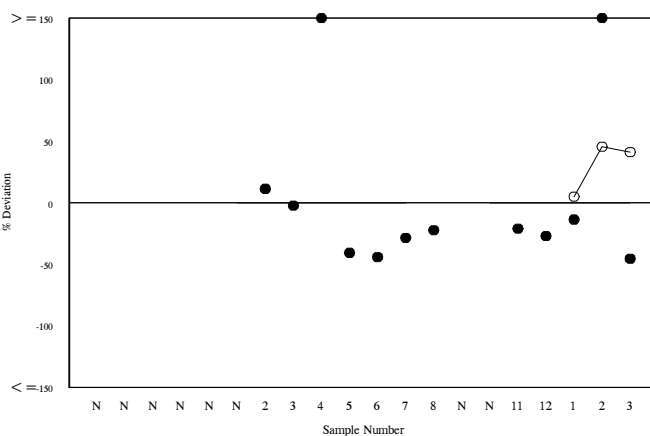
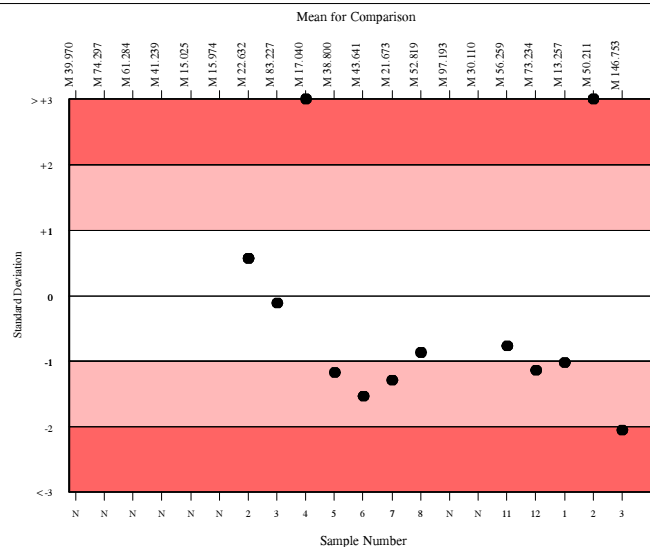
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
□ All Methods	315	164.407	20.6	2.39	33.89	43
■ Roche Cobas 4000/e411	65	146.753	22.1	5.03	32.46	8

▲ Your Result	80.060	SDI	-2.05
		RMSDI	1.68
■ Mean for Comparison	146.753	TS	N/A
		RMTS	N/A
		%DEV	-45.4
		RM%DEV	41.1

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



Method	N	Mean	CV%	U <sub>m</sub>
Siemens/DPC Immulite 2000/2500	99	177.857	13.7	3.06
Roche Cobas 6000/8000	75	151.571	15.4	3.36
Roche Cobas 4000/e411	65	146.753	22.1	5.03
Siemens/DPC Immulite 1000	21	191.394	11.2	5.86
DiaSorin, Liaison	15	233.524	20.0	15.05
SNIBE Maglumi analysers	12	187.159	4.4	2.99
DiaSorin Liaison XL	9	250.182	19.2	20.06
TOSOH	10	164.451	11.8	7.67
CIS, IRMA	5	386.637	8.5	18.32
Roche Elecsys	3	131.597	29.1	27.59

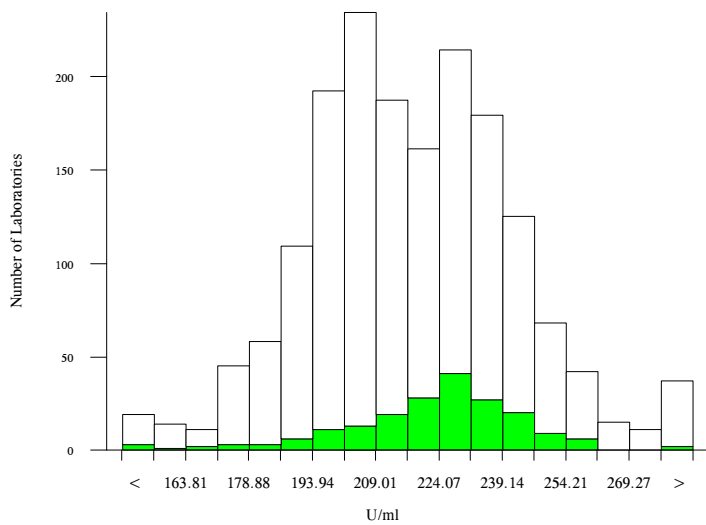


# AFP, U/ml

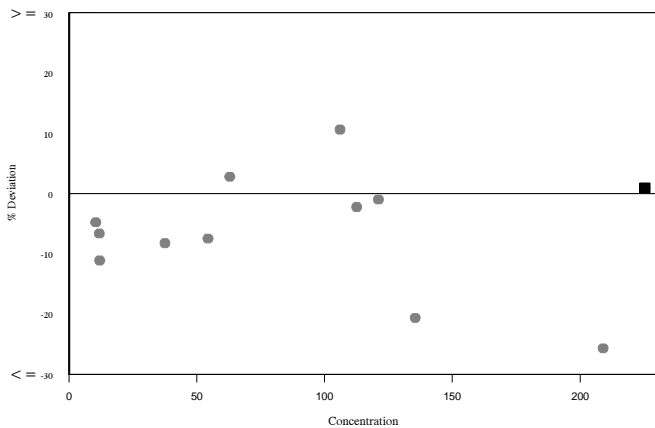
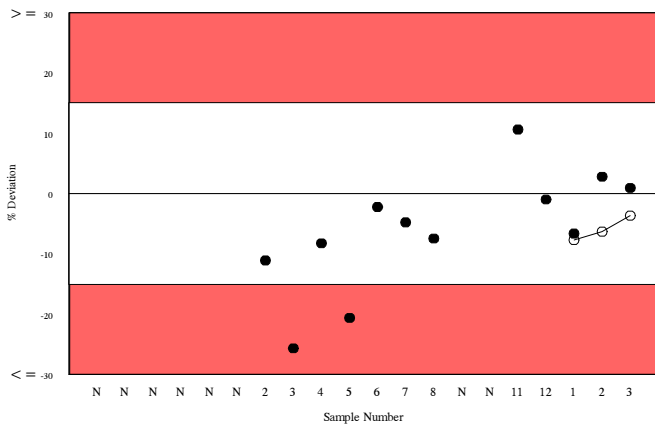
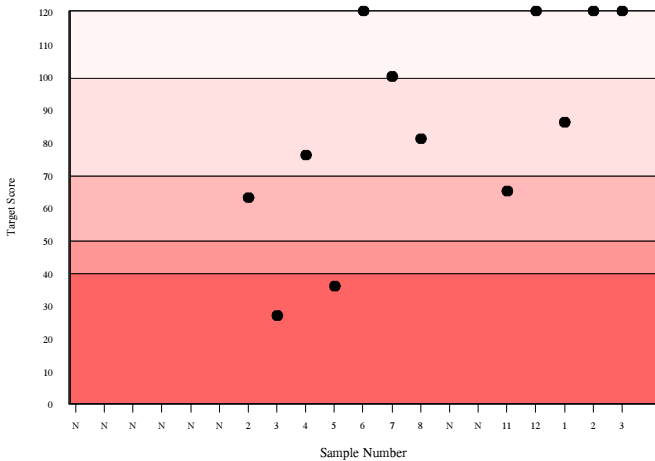
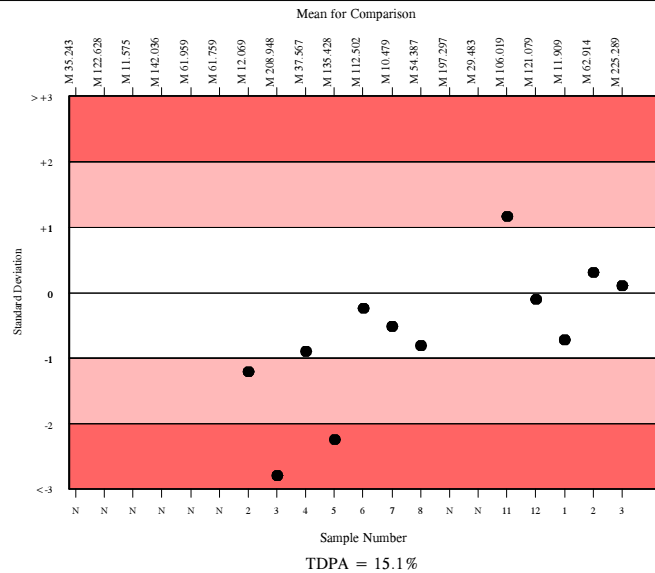
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1618	216.547	9.3	0.62	19.88	104
Roche Cobas 4000/e411	179	225.289	7.0	1.47	20.68	16

▲ Your Result	227.400	SDI	0.10
		RMSDI	-0.40
■ Mean for Comparison	225.289	TS	120
		RMTS	92
		%DEV	0.9
		RM%DEV	-3.7

Acceptable limits derived from Biological Variation	21.9%
Acceptable limits of performance for RIQAS	15.10%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	357	226.333	5.2	0.78
Abbott Architect	312	201.938	3.7	0.53
Roche Cobas 4000/e411	179	225.289	7.0	1.47
Beckman DxI 600/800	178	194.919	7.8	1.43
Siemens Centaur XP/XPT/Classic	149	239.258	5.3	1.31
Siemens/DPC Immulite 2000/2500	52	207.358	5.1	1.85
bioMerieux, Vidas/Mini Vidas	55	237.805	8.7	3.49
Beckman Access/LXi725	49	205.598	6.8	2.50
Roche Elecsys	39	216.173	7.2	3.10
Ortho Vitros 3600/5600/ECi	32	219.419	10.0	4.86
SNIBE Maglumi analysers	29	215.739	7.5	3.74
Siemens Centaur CP	23	245.260	7.0	4.47
Tosoh	20	190.859	3.6	1.90
Siemens/DPC Immulite 1000	20	208.073	9.4	5.46
DiaSorin Liaison XL	19	231.786	7.7	5.11
CIS, IRMA	16	311.504	11.1	10.85
DiaSorin, Liaison	14	216.332	16.5	11.90
Roche Modular E170	10	222.922	2.6	2.32
Fujirebio Lumipulse G Series	8	220.479	4.3	4.15
Siemens Dimension	4	229.099	3.5	5.04
Brahms Kryptor	3	187.200	14.0	18.90



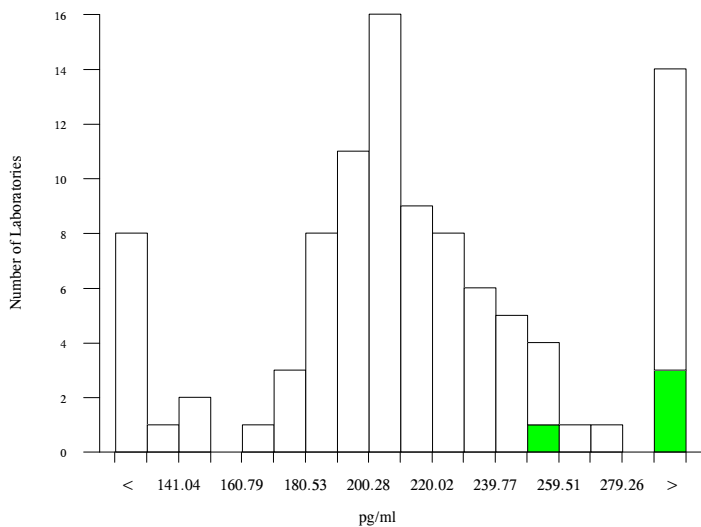
# Aldosterone, pg/ml

	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	76	210.155	12.5	3.77	49.32	22
DiaMetra ELISA	1	249.800	0.0	0.00	N/A	3

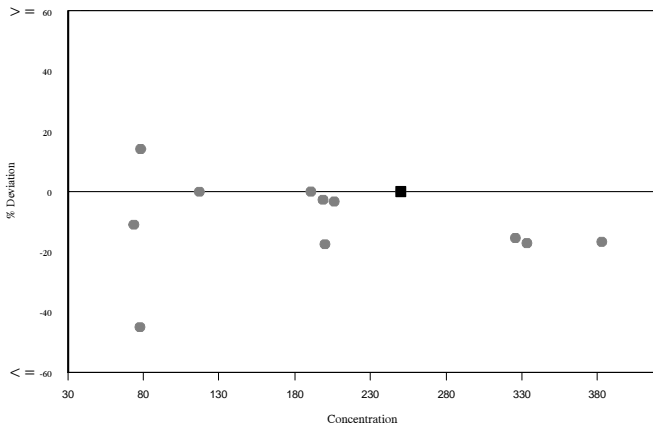
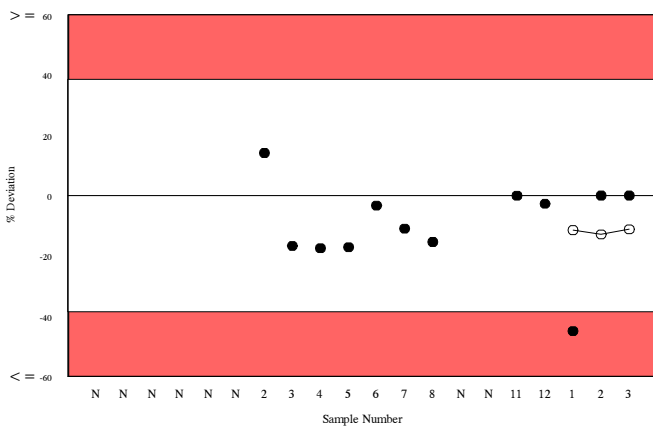
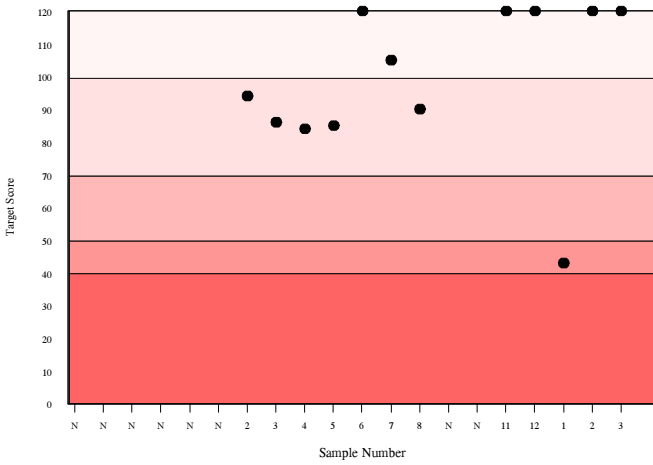
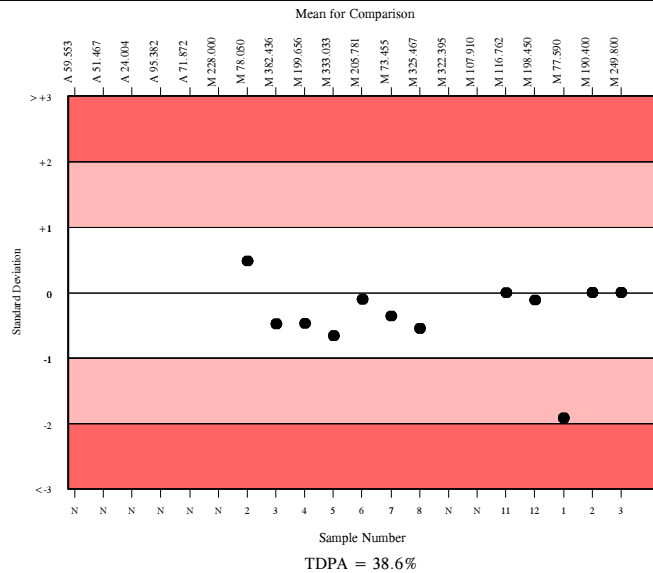
▲ Your Result	249.800	SDI	0.00
		RMSDI	-0.42
■ Mean for Comparison	249.800	TS	120
		RMTS	100
		%DEV	0.0
		RM%DEV	-11.2

**The mean for comparison is not statistically significant**

Acceptable limits derived from Biological Variation	36.7%
Acceptable limits of performance for RIQAS	38.60%



Method	N	Mean	CV%	U <sub>m</sub>
SNIBE Maglumi analysers	15	205.943	4.6	3.09
DiaSorin Liaison XL	16	198.957	9.6	5.95
DiaSorin, Liaison	13	215.172	9.0	6.74
DRG ELISA	9	287.582	22.5	26.95
Immunotech RIA	5	250.953	27.1	37.97
ELISA	7	220.194	25.3	26.31
CIS, RIA	5	79.040	21.6	9.52
DiaMetra ELISA	1	249.800	0.0	0.00
IDS iSYS	3	218.833	14.1	22.19
Zentech RIA	3	228.367	10.9	17.90
DiaSorin (RIA)	2	225.000	0.0	0.00
DBE, ELISA	2	222.150	4.0	7.94



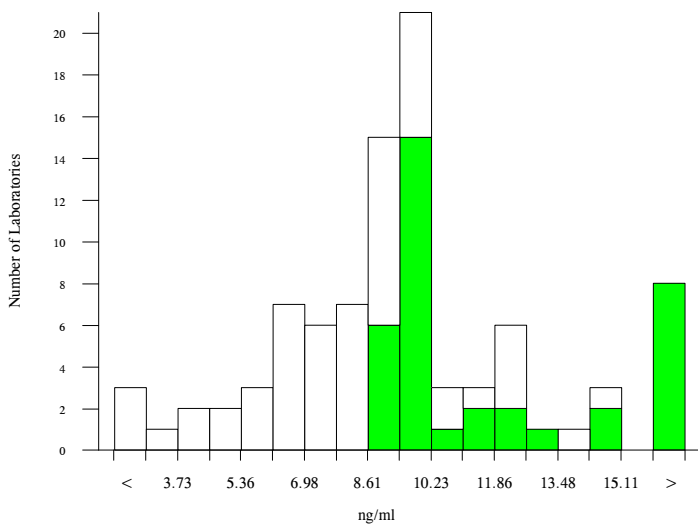
**RIQAS**

# Androstenedione, ng/ml

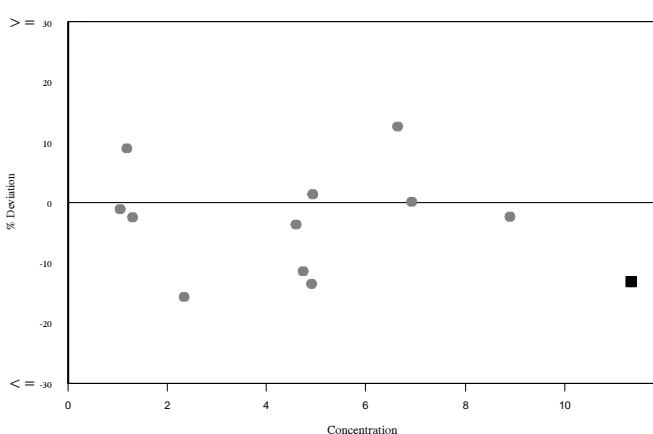
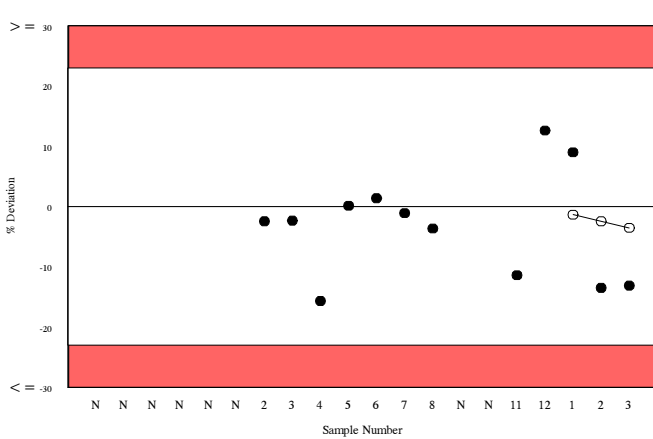
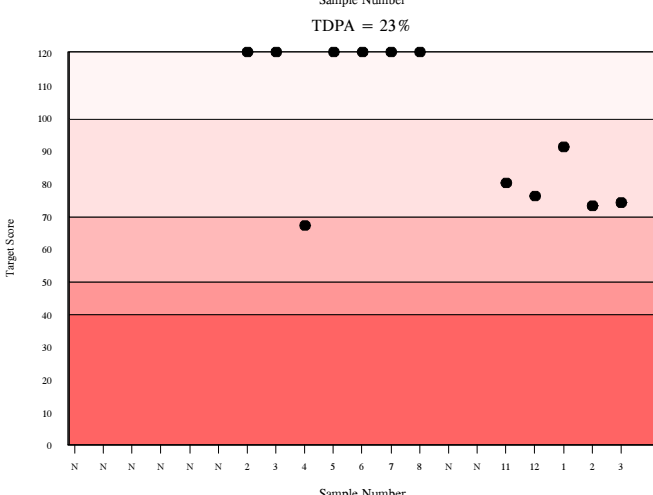
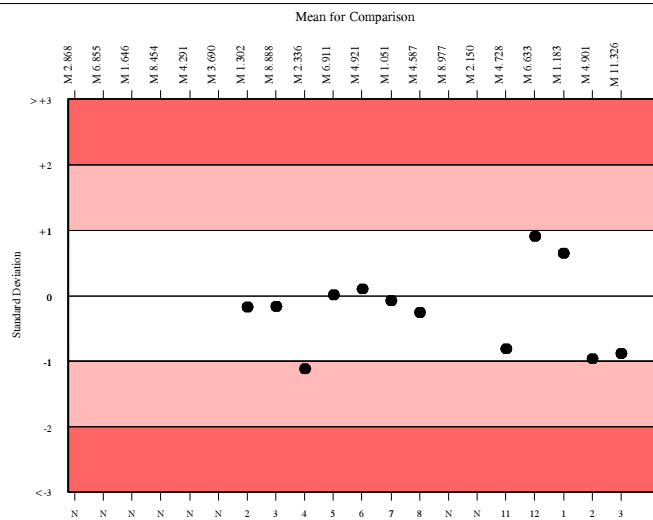
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	78	9.426	23.0	0.31	1.32	47
Siemens/DPC Immulite 2000	33	11.326	22.9	0.56	1.68a	32

▲ Your Result	9.840	SDI	-0.88
		RMSDI	-0.25
■ Mean for Comparison	11.326	TS	74
		RMTS	94
		%DEV	-13.1
		RM%DEV	-3.5

Acceptable limits derived from Biological Variation	23.51%
Acceptable limits of performance for RIQAS	23.00%



Method	N	Mean	CV%	U <sub>m</sub>
Siemens/DPC Immulite 2000	33	11.326	22.9	0.56
Siemens/DPC Immulite 1000	8	9.650	13.7	0.58
Beckman Coulter Active RIA	9	6.945	9.1	0.26
DIAsource, RIA	5	8.978	12.1	0.61
DiaMetra ELISA	3	6.576	29.5	1.40
DRG ELISA	5	9.872	19.9	1.10
DiaSorin Liaison XL	4	8.400	5.0	0.26
IBL International ELISA	3	10.867	10.1	0.79
DIAsource, ELISA	2	9.305	10.6	0.87
Labor Diagnostike Nord ELISA	1	9.040	0.0	0.00
Novatec ELISA	1	5.200	0.0	0.00

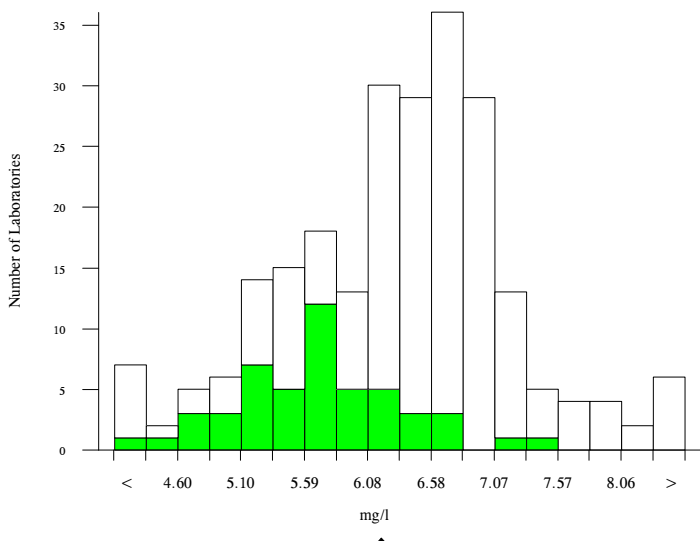


# Beta-2-Microglobulin, mg/l

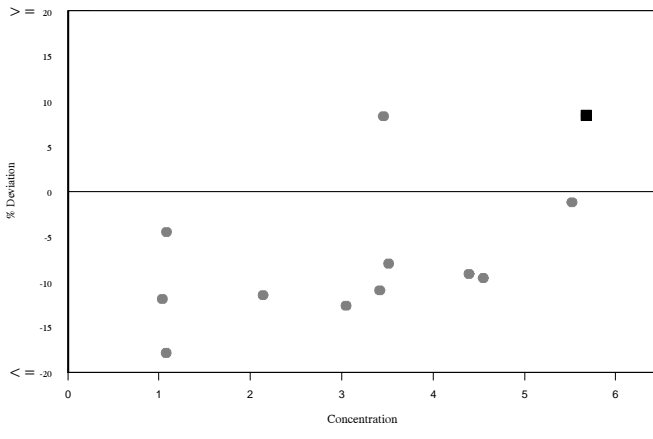
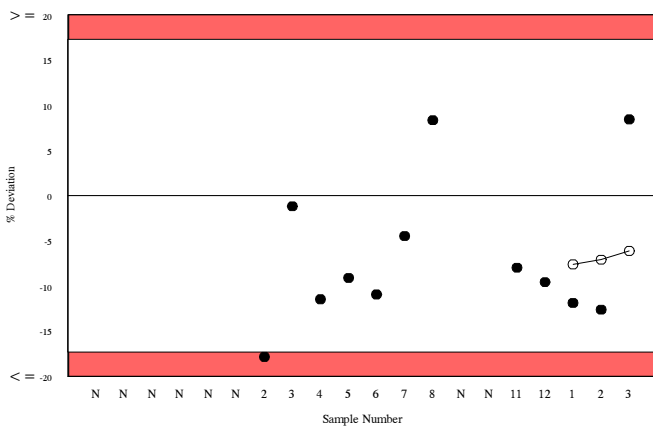
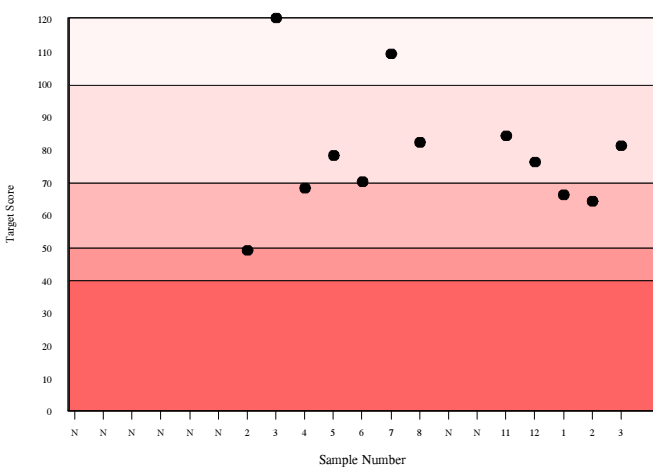
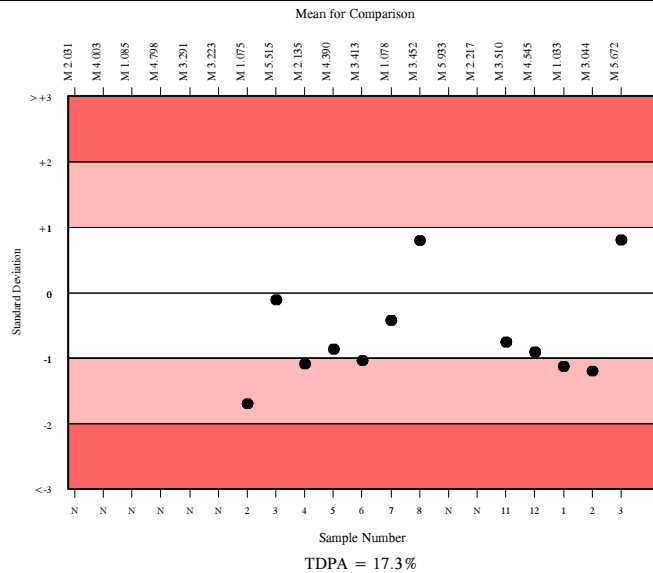
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	214	6.335	10.4	0.06	0.67	29
Siemens/DPC Immulite 2000/2500	47	5.672	9.6	0.10	0.60	3

▲ Your Result	6.150	SDI	0.80
		RMSDI	-0.58
■ Mean for Comparison	5.672	TS	81
		RMTS	77
		%DEV	8.4
		RM%DEV	-6.1

Acceptable limits derived from Biological Variation	9%
Acceptable limits of performance for RIQAS	17.30%



Method	N	Mean	CV%	U <sub>m</sub>
Siemens/DPC Immulite 2000/2500	47	5.672	9.6	0.10
Roche Cobas 6000/8000	34	6.583	4.1	0.06
bioMerieux, VIDAS	21	6.842	11.6	0.22
Abbott Architect	25	6.800	2.5	0.04
SNIBE Maglumi analysers	12	5.364	3.3	0.06
Siemens/Behring Nephelometer	10	6.953	6.1	0.17
Beckman AU400/600/640/2700/5400	8	6.814	4.9	0.15
Siemens/DPC Immulite 1000	6	6.248	5.1	0.16
Fujirebio Lumipulse G Series	6	5.948	3.4	0.10
DiaSorin, Liaison	7	5.725	6.9	0.19
TOSOH	6	6.642	1.7	0.06
Siemens Dimension	4	7.181	5.6	0.25
DiaSorin Liaison XL	5	6.162	5.7	0.20
Roche Tinaquant	4	6.221	15.7	0.61
Siemens Advia 1200/1650/1800/2400	3	7.197	3.6	0.19
Roche Cobas 4000/c311	3	6.713	2.7	0.13
Roche Modular P	3	6.773	12.2	0.60
Abbott AxSYM	1	6.560	0.0	0.00
Beckman Immage	2	7.275	13.1	0.84
Biolatex Immunoassay	2	5.240	33.5	1.55
DakoCytomation PET kit	2	8.365	0.4	0.03

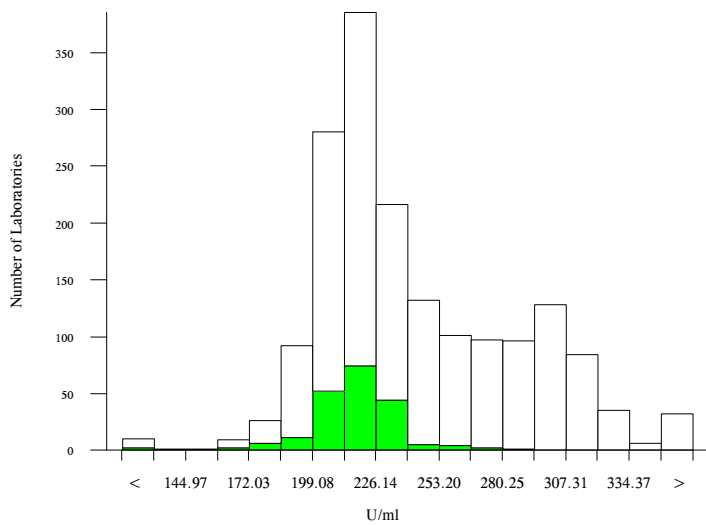


# CA 125, U/ml

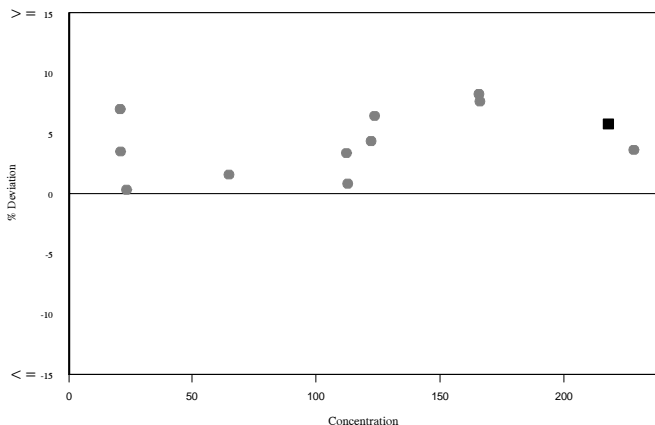
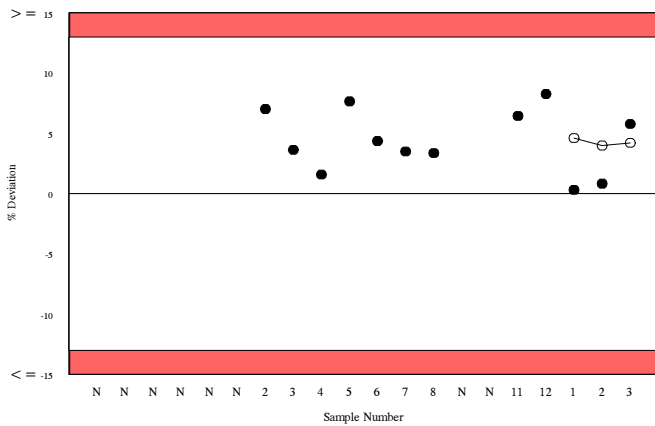
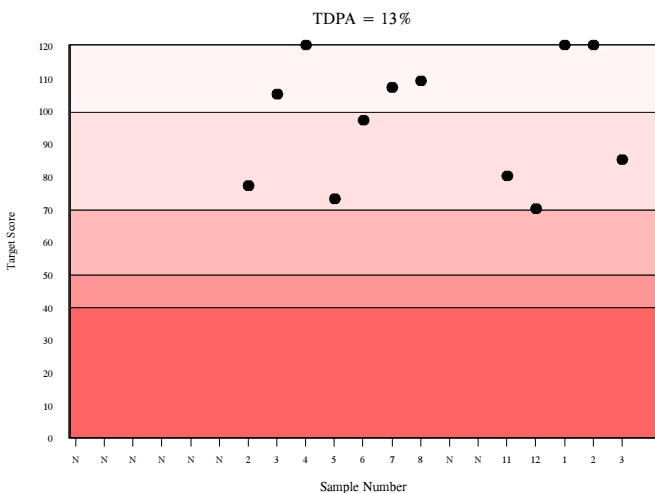
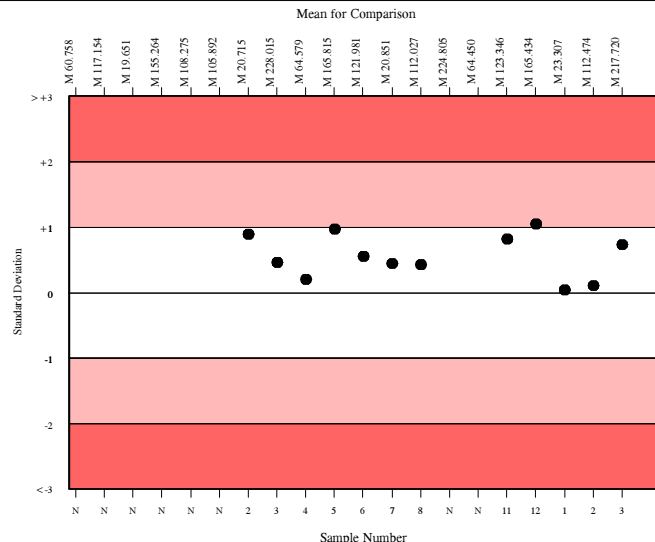
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1648	239.674	15.1	1.11	18.94	83
Roche Cobas 4000/e411	183	217.720	5.4	1.09	17.21	21

▲ Your Result	230.300	SDI	0.73
		RMSDI	0.53
■ Mean for Comparison	217.720	TS	85
		RMTS	98
		%DEV	5.8
		RM%DEV	4.2

Acceptable limits derived from Biological Variation	35.4%
Acceptable limits of performance for RIQAS	13.00%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	350	215.885	4.0	0.57
Abbott Architect	330	299.469	5.1	1.06
Roche Cobas 4000/e411	183	217.720	5.4	1.09
Beckman DxI 600/800	162	209.684	5.5	1.13
Centaur XP/XPT/Classic, CA125 II Kit	118	256.981	6.2	1.83
bioMerieux, VIDAS	81	242.523	5.1	1.71
Siemens Centaur XP/XPT/Classic OV Kit	44	253.166	5.3	2.52
Roche Elecsys	38	214.516	5.2	2.27
Beckman Access/LXi725	39	205.590	6.7	2.76
Siemens/DPC Immulite 2000/2500	36	245.262	6.7	3.43
Ortho Vitros 3600/5600/ECi	31	236.968	1.9	1.00
SNIBE Maglumi analysers	30	220.697	6.6	3.35
Siemens Centaur CP CA125 II Kit	25	258.804	6.5	4.24
TOSOH	27	376.263	6.6	5.98
Siemens/DPC Immulite 1000	23	276.339	7.4	5.35
DiaSorin Liaison XL	17	293.824	6.1	5.48
DiaSorin, Liaison	16	272.644	16.3	13.85
Roche Modular E170	15	213.947	4.6	3.19
Fujirebio Lumipulse G Series	12	218.915	4.1	3.20
CIS, IRMA	8	189.137	3.8	3.21
Siemens Centaur CP OV Kit	3	257.700	5.0	9.31

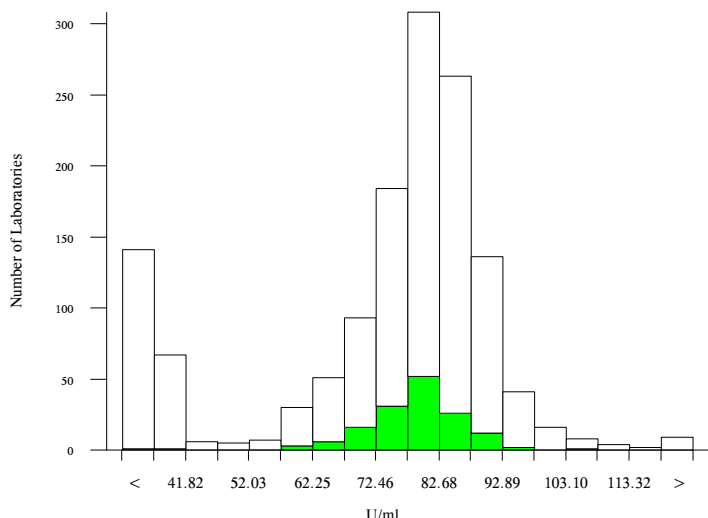


# CA 15-3, U/ml

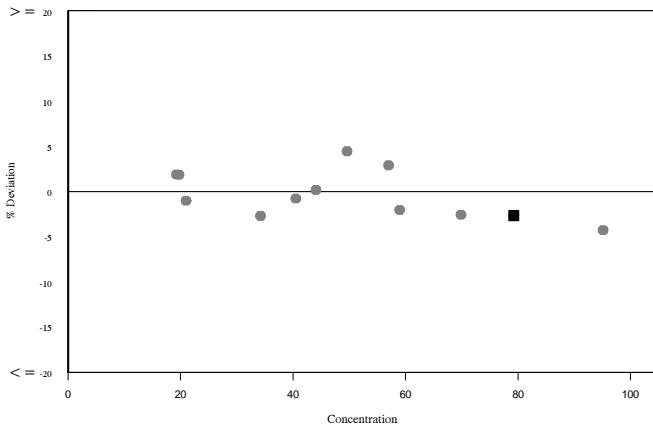
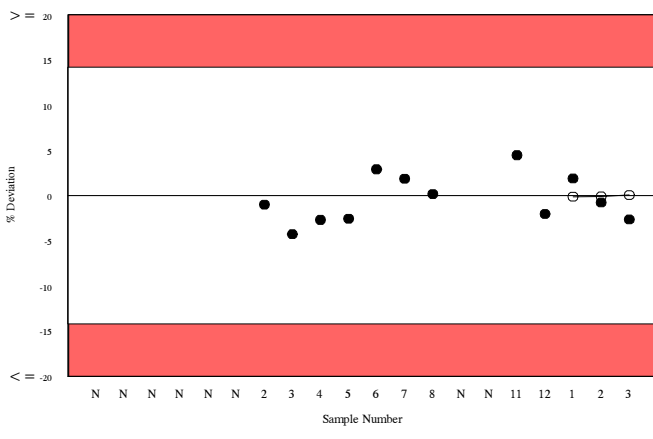
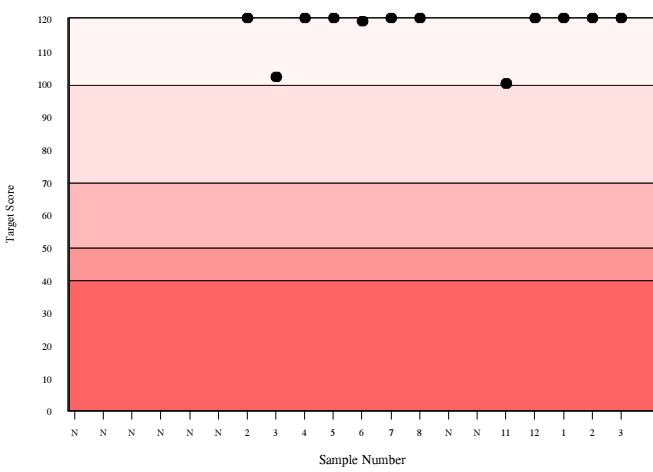
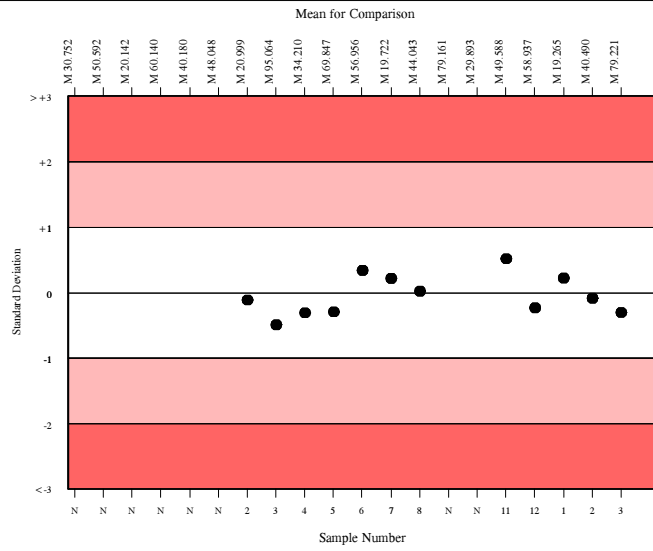
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1228	77.574	17.6	0.49	6.70	143
Roche Cobas 4000/e411	139	79.221	6.9	0.58	6.84	12

▲ Your Result	77.130	SDI RMSDI	-0.31 0.01
■ Mean for Comparison	79.221	TS RMTS	120 117
		%DEV RM%DEV	-2.6 0.1

Acceptable limits derived from Biological Variation	20.8%
Acceptable limits of performance for RIQAS	14.20%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	280	80.636	5.6	0.34
Abbott Architect	250	86.514	6.2	0.42
Beckman DxI 600/800	149	35.288	7.5	0.27
Roche Cobas 4000/e411	139	79.221	6.9	0.58
Siemens Centaur XP/XPT/Classic	128	79.274	6.0	0.52
BioMerieux VIDAS	54	68.873	5.7	0.67
Siemens/DPC Immulite 2000/2500	30	82.732	7.1	1.34
Roche Elecsys	32	79.049	6.9	1.21
Beckman Access/LXi725	29	34.857	6.8	0.55
SNIBE Maglumi analysers	20	63.660	3.7	0.67
TOSOH	19	84.091	13.9	3.36
Ortho Vitros 3600/5600/ECi	20	72.005	7.9	1.59
DiaSorin, Liaison	15	87.058	10.1	2.83
DiaSorin Liaison XL	14	78.940	12.4	3.28
Siemens Centaur CP	10	78.410	4.8	1.48
Siemens/DPC Immulite 1000	11	100.891	7.5	2.84
Roche Modular E170	12	82.037	8.3	2.47
CIS, IRMA	11	79.372	10.1	3.01
Fujirebio Lumipulse G Series	9	89.327	3.5	1.30
Siemens Dimension	3	71.467	4.2	2.19
Stat Fax Elisa Readers	2	29.750	29.7	7.81



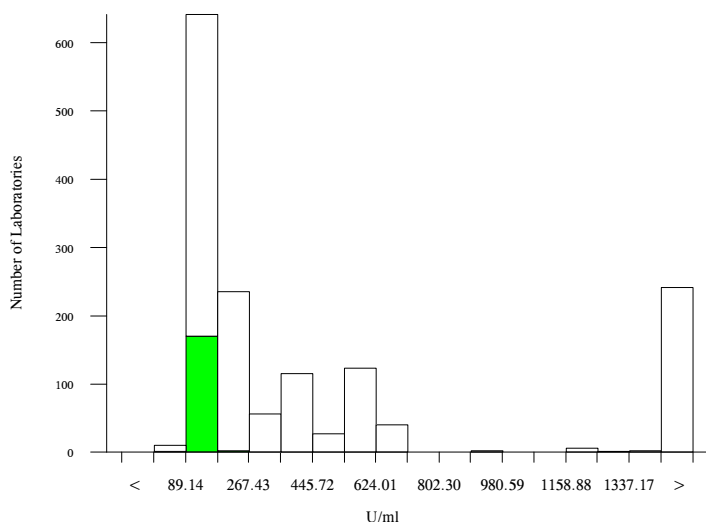


# CA 19-9, U/ml

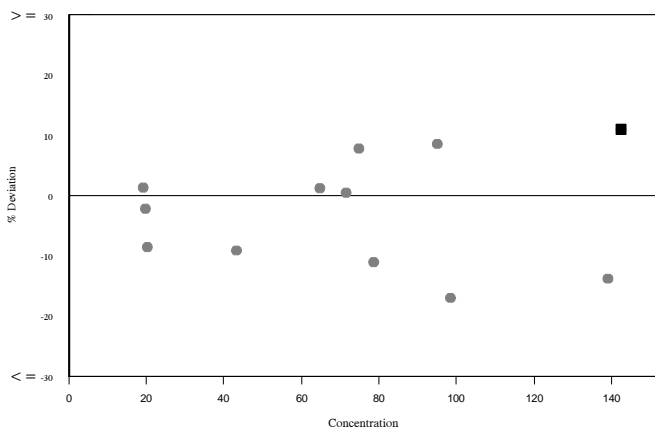
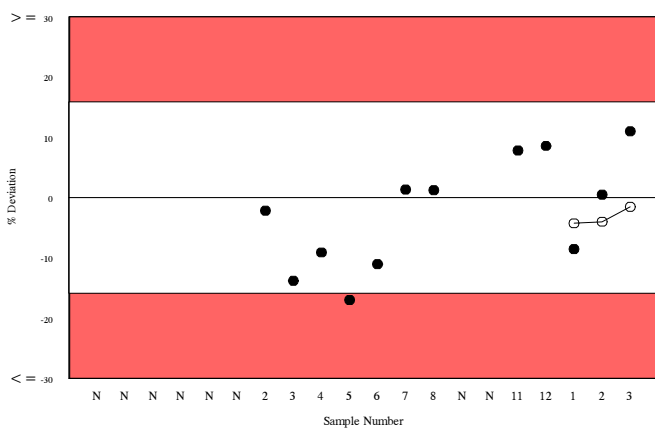
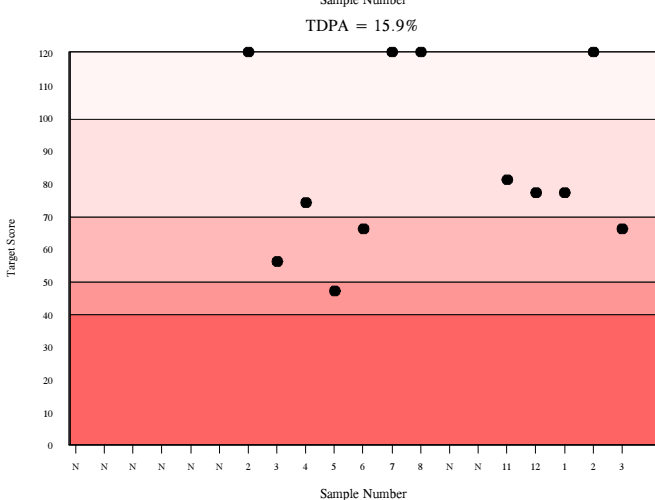
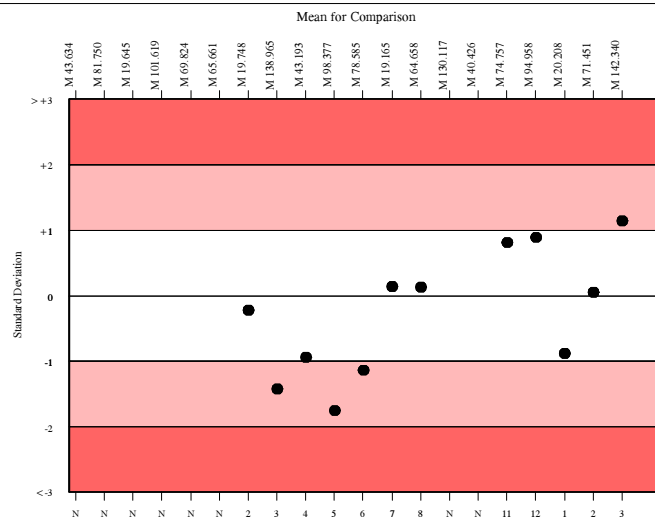
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1324	335.664	108.3	12.49	34.77a	193
Roche Cobas 4000/e411	157	142.340	6.8	0.97	13.76	16

▲ Your Result	158.000	SDI	1.14
		RMSDI	-0.16
■ Mean for Comparison	142.340	TS	66
		RMTS	84
		%DEV	11.0
		RM%DEV	-1.5

Acceptable limits derived from Biological Variation	46.03%
Acceptable limits of performance for RIQAS	15.90%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	322	138.595	4.6	0.44
Abbott Architect	164	1925.496	10.1	18.89
Roche Cobas 4000/e411	157	142.340	6.8	0.97
Beckman DxI 600/800	161	222.959	6.6	1.44
Siemens Centaur XP/XPT/Classic	145	594.171	5.7	3.49
bioMerieux, VIDAS	77	412.877	5.8	3.43
Abbott Architect XR/ XR2 / XRL	65	1931.303	8.3	24.91
Siemens/DPC Immulite 2000/2500	38	237.779	12.7	6.13
Roche Elecsys	31	136.997	6.7	2.06
Beckman Access/LXi725	30	254.953	9.5	5.54
SNIBE Maglumi analysers	27	144.762	3.8	1.32
Ortho Vitros 3600/5600/ECi	24	400.708	4.0	4.12
Siemens Centaur CP	23	565.016	7.3	10.72
TOSOH	22	103.746	4.1	1.14
DiaSorin Liaison XL	16	354.450	7.5	8.36
CIS, IRMA	14	100.834	8.5	2.87
DiaSorin, Liaison	14	351.134	10.9	12.83
Roche Modular E170	12	138.167	2.2	1.09
Siemens/DPC Immulite 1000	9	306.222	25.7	32.82
Fujirebio Lumipulse G Series	8	325.138	1.4	2.08
Siemens Dimension	3	310.667	1.5	3.25

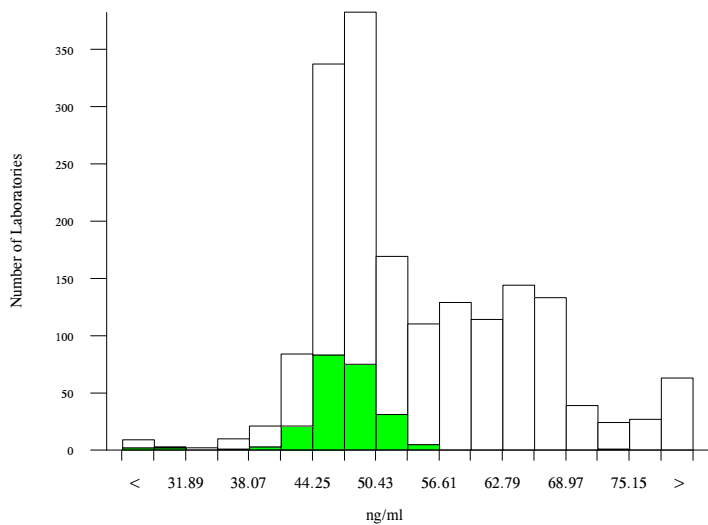


# CEA, ng/ml

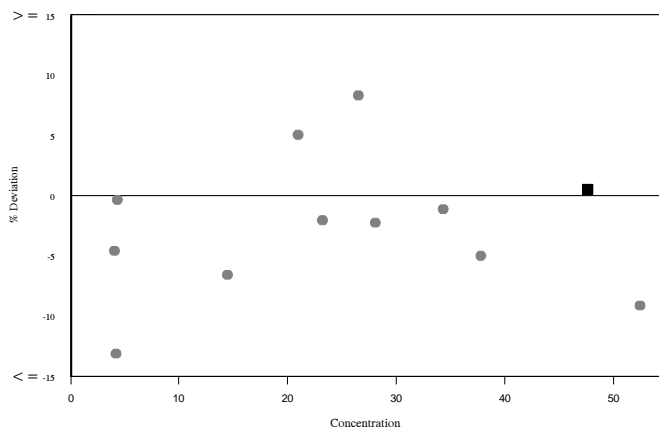
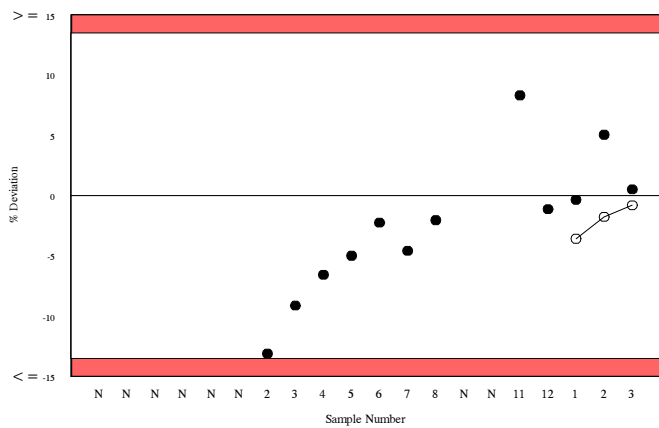
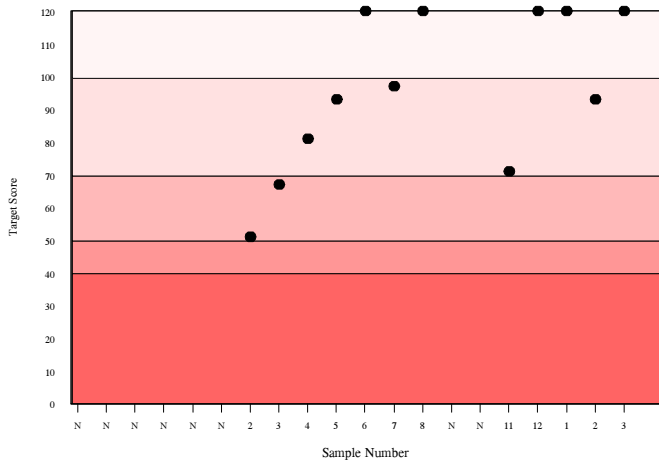
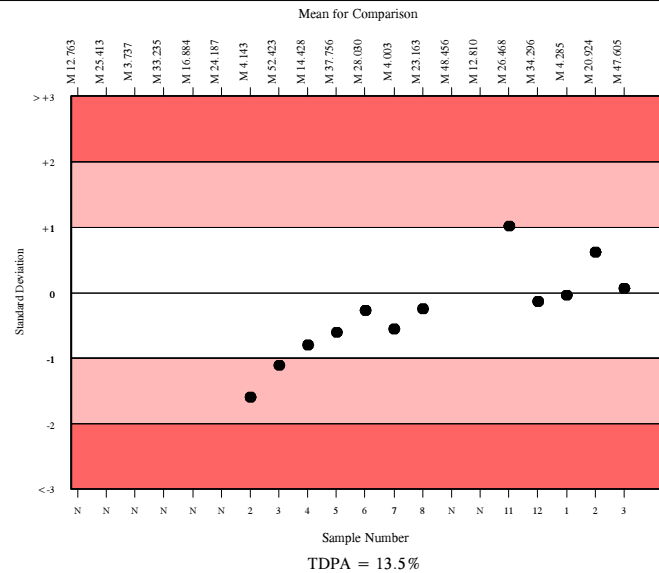
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1688	53.527	15.4	0.25	4.39	113
Roche Cobas 4000/e411	207	47.605	5.2	0.21	3.91	18

▲ Your Result	47.850	SDI	0.06
		RMSDI	-0.10
■ Mean for Comparison	47.605	TS	120
		RMTS	103
		%DEV	0.5
		RM%DEV	-0.8

Acceptable limits derived from Biological Variation	24.7%
Acceptable limits of performance for RIQAS	13.50%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	363	47.343	3.6	0.11
Abbott Architect	330	65.180	4.3	0.19
Roche Cobas 4000/e411	207	47.605	5.2	0.21
Beckman DxI 600/800	177	48.556	6.1	0.28
Siemens Centaur XP/XPT/Classic	162	57.779	4.9	0.28
bioMerieux, VIDAS	64	54.477	5.0	0.43
Siemens/DPC Immulite 2000/2500	45	76.090	5.7	0.81
Beckman Access/LXi725	44	51.653	4.7	0.45
Roche Elecsys	35	47.642	4.8	0.48
Ortho Vitros 3600/5600/ECi	34	62.231	4.6	0.61
SNIBE Maglumi analysers	28	49.049	7.2	0.83
Tosoh	30	87.562	5.0	1.00
Siemens Centaur CP	26	58.633	5.3	0.77
Siemens/DPC Immulite 1000	20	75.825	7.0	1.48
DiaSorin Liaison XL	17	50.715	5.6	0.85
CIS, RIA Coated tube	17	40.241	5.5	0.67
DiaSorin, Liaison	18	49.789	10.1	1.47
Roche Modular E170	14	46.949	3.4	0.54
Fujirebio Lumipulse G Series	10	78.212	1.4	0.42
Siemens Dimension	4	49.925	3.6	1.12
Boditech Med Inc i-CHROMA	2	36.060	21.3	6.80

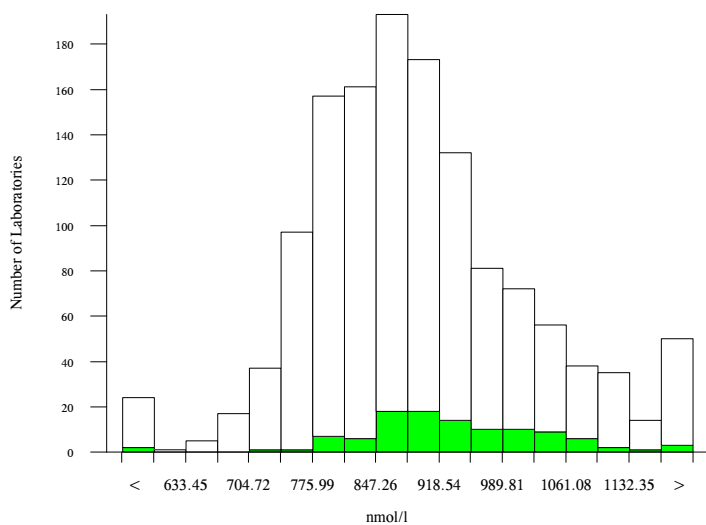


# Cortisol, nmol/l

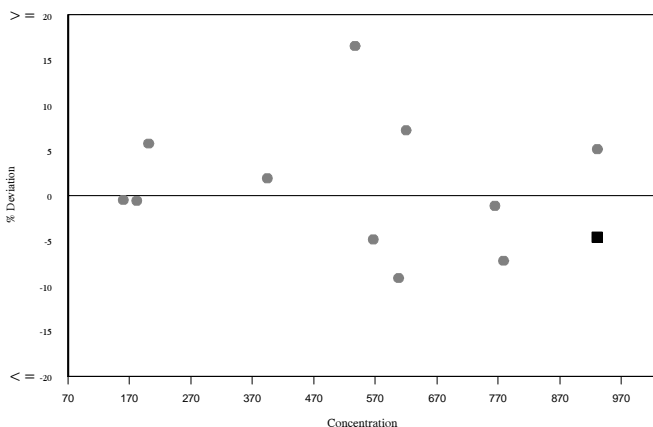
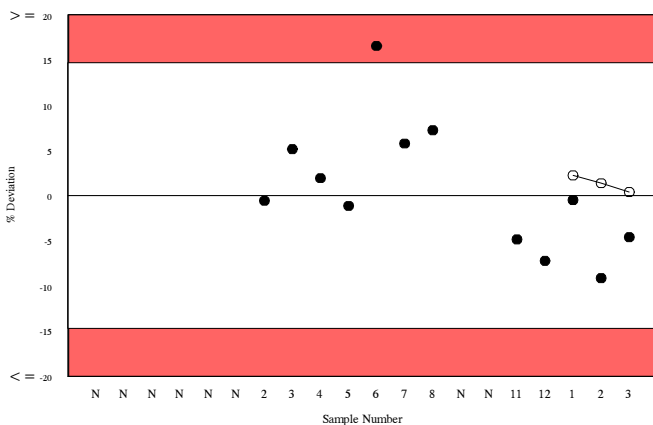
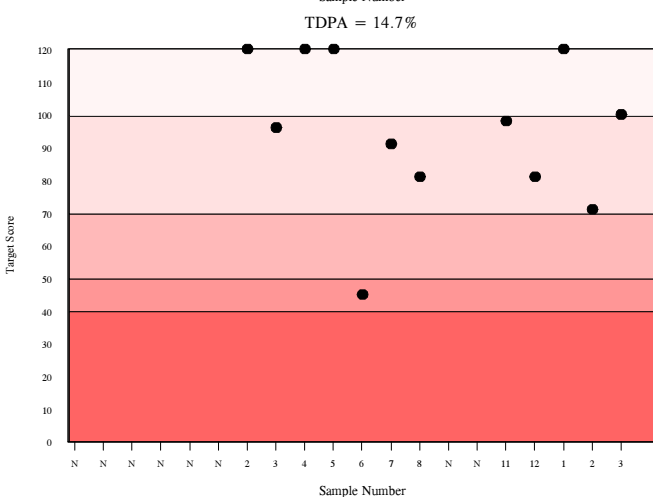
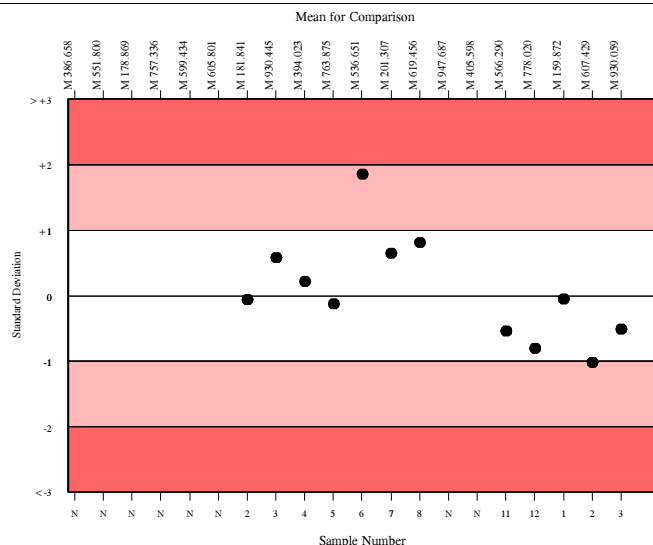
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1240	882.904	10.8	3.37	78.91	103
Roche Cobas 4000/e411	101	930.059	9.0	10.42	83.12	7

▲ Your Result	887.300	SDI	-0.51
		RMSDI	0.05
■ Mean for Comparison	930.059	TS	100
		RMTS	92
		%DEV	-4.6
		RM%DEV	0.4

Acceptable limits derived from Biological Variation	22.8%
Acceptable limits of performance for RIQAS	14.70%



Method	N	Mean	CV%	U <sub>m</sub>
Abbott Architect	239	780.196	4.7	2.96
Roche Cobas 6000/8000 Gen II	157	856.360	4.9	4.21
Beckman Dxi 600/800	140	880.932	6.5	6.02
Roche Cobas 6000/8000	123	885.621	6.4	6.43
Siemens Centaur XP/XPT/Classic	115	1075.202	7.6	9.53
Roche Cobas 4000/e411	101	930.059	9.0	10.42
Siemens/DPC Immulite 2000/2500	70	877.083	6.1	7.99
Roche Cobas 4000/e411 Gen II	43	955.661	6.5	11.86
Beckman Access/LXi725	26	950.582	7.0	16.42
Siemens/DPC Immulite 1000	27	937.994	9.0	20.31
Roche Elecsys	27	938.966	7.6	17.13
Ortho Vitros 3600/5600/ECi	25	871.817	5.1	11.19
Tosoh	23	952.320	7.5	18.62
bioMerieux, VIDAS	20	824.093	10.1	23.35
SNIBE Maglumi analysers	17	999.164	2.5	7.57
Siemens Centaur CP	13	1150.600	11.6	46.28
CIS, RIA	14	760.100	8.5	21.64
DiaSorin, Liaison	12	950.290	12.3	42.18
Roche Modular E170 Gen II	6	874.573	6.8	30.39
Roche Modular E170	6	884.633	7.9	35.70
DiaSorin Liaison XL	3	1040.276	14.7	110.66

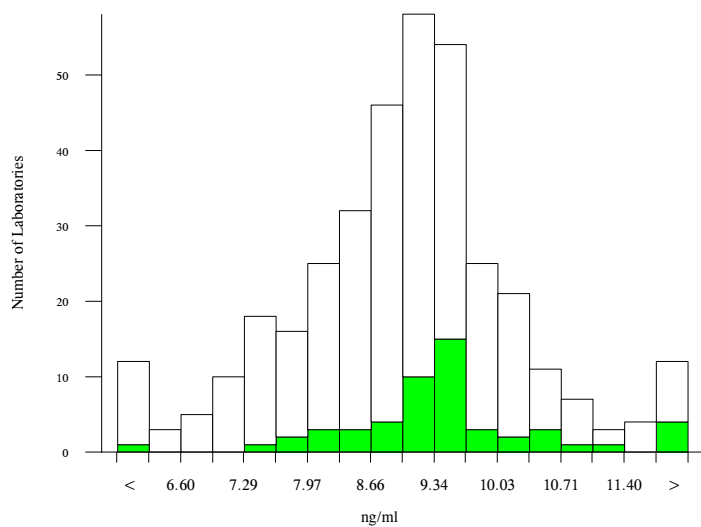


# C-Peptide, ng/ml

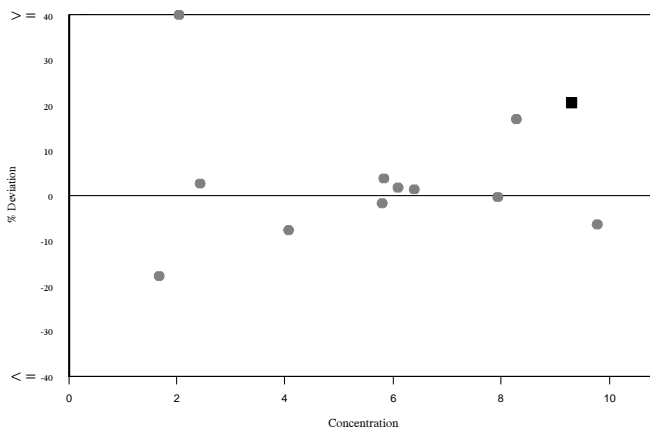
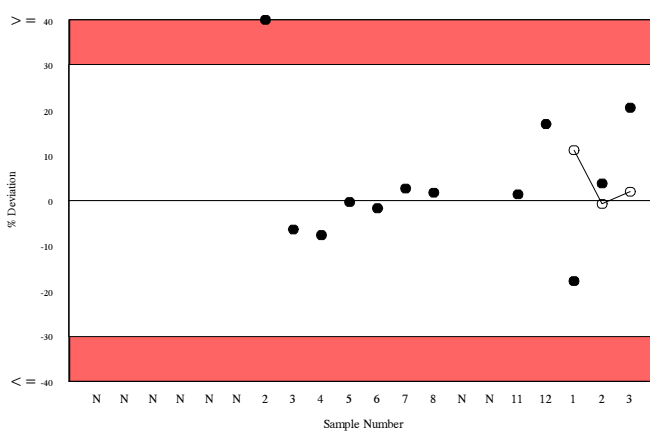
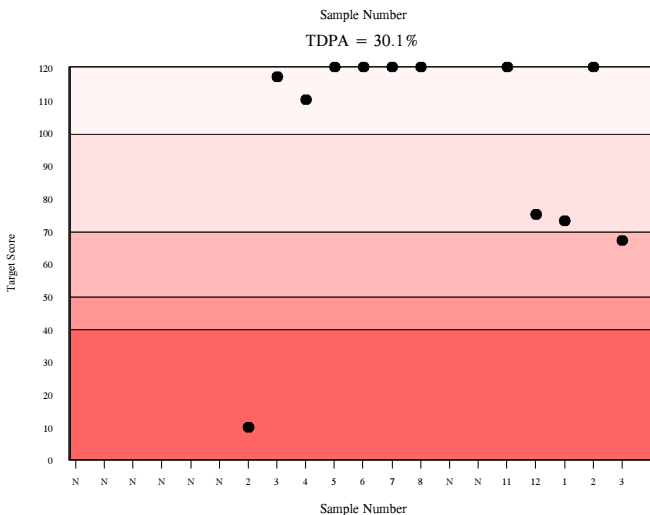
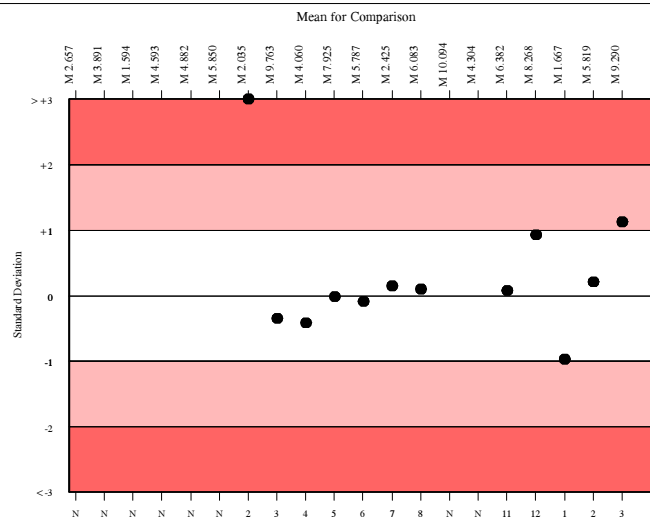
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	330	9.005	10.1	0.06	1.65	33
Roche Cobas 4000/e411	48	9.290	8.5	0.14	1.70	5

▲ Your Result	11.200	SDI	1.12
		RMSDI	0.11
■ Mean for Comparison	9.290	TS	67
		RMTS	104
		%DEV	20.6
		RM%DEV	2.0

Acceptable limits derived from Biological Variation	20.8%
Acceptable limits of performance for RIQAS	30.10%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	67	9.294	4.9	0.07
Abbott Architect	48	8.574	5.3	0.08
Siemens/DPC Immulite 2000/2500	49	9.155	6.2	0.10
Roche Cobas 4000/e411	48	9.290	8.5	0.14
Siemens Centaur XP/XPT/Classic	34	7.601	8.0	0.13
SNIBE Maglumi analysers	16	10.356	5.7	0.18
TOSOH	13	8.602	7.3	0.22
Siemens/DPC Immulite 1000	9	9.373	13.3	0.52
DiaSorin Liaison XL	9	10.286	4.5	0.19
Roche Elecsys	6	9.792	10.7	0.53
DiaSorin, Liaison	7	10.254	4.8	0.23
Fujirebio Lumipulse G Series	4	8.715	3.0	0.17
ELISA	3	6.307	29.5	1.34
Monobind Inc. ELISA / CLIA	3	7.730	27.5	1.53
Roche Modular E170	3	8.927	2.2	0.14
Siemens Centaur CP	2	7.740	8.6	0.59
DIAsource, RIA	2	6.355	5.7	0.32
DRG ELISA	1	11.200	0.0	0.00



**RIQAS**

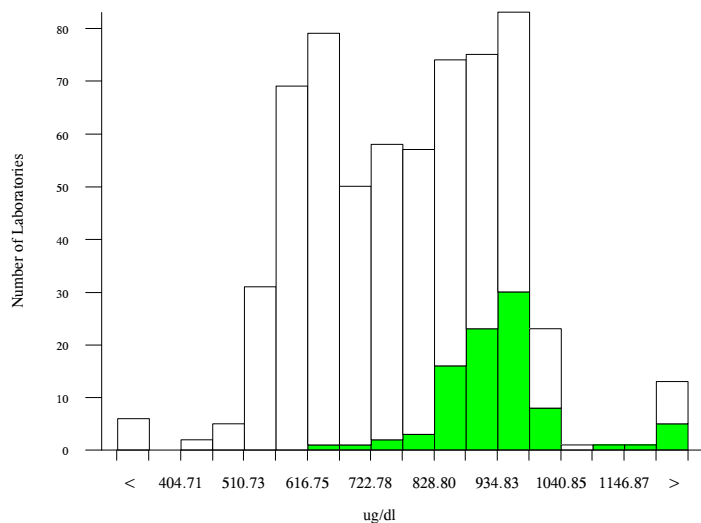
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# DHEA-S, ug/dl

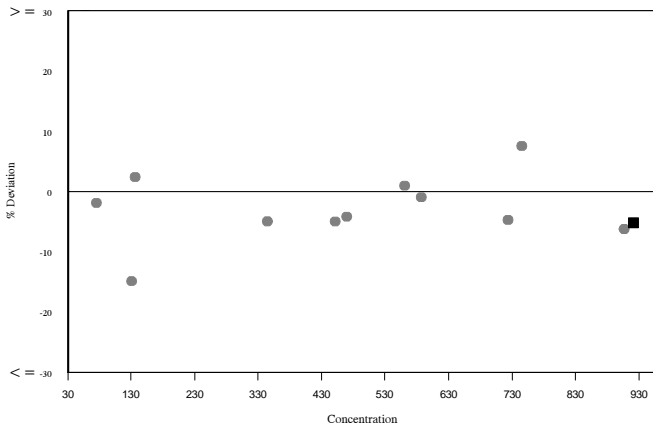
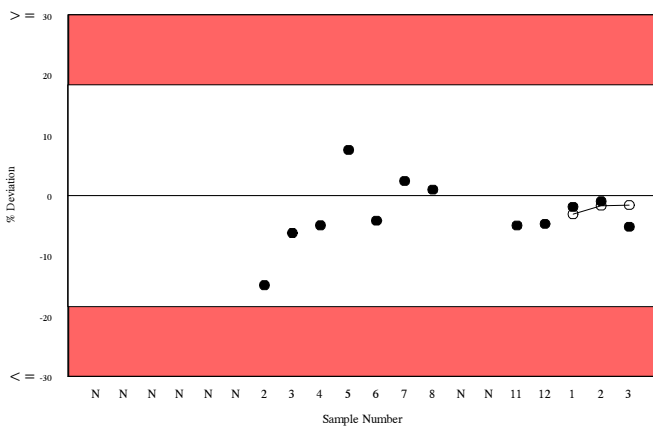
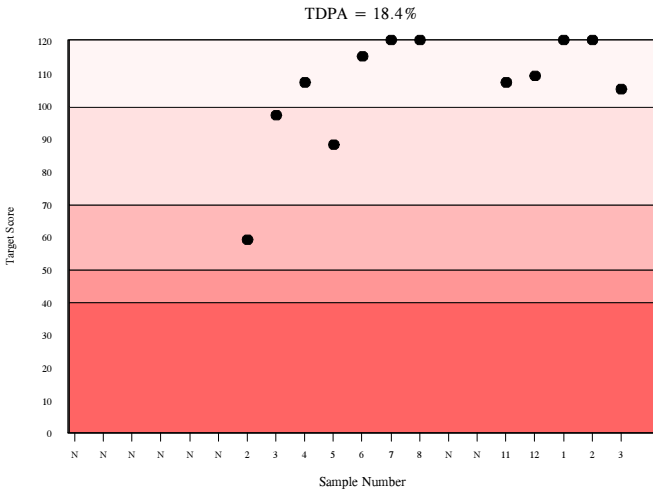
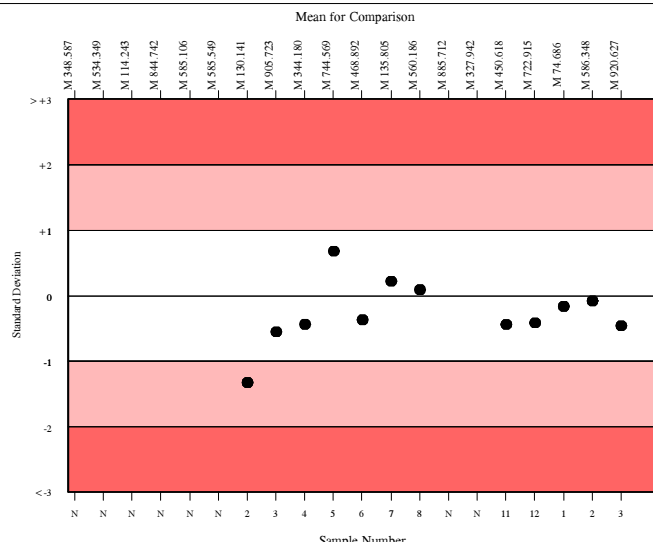
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	603	775.796	18.2	7.20	86.78	32
Roche Cobas 4000/e411	80	920.627	5.7	7.28	102.99	17

▲ Your Result	873.000	SDI	-0.46
		RMSDI	-0.14
■ Mean for Comparison	920.627	TS	105
		RMTS	111
		%DEV	-5.2
		RM%DEV	-1.6

Acceptable limits derived from Biological Variation	10.9%
Acceptable limits of performance for RIQAS	18.40%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	117	925.022	5.0	5.38
Abbott Architect	97	794.443	5.3	5.39
Roche Cobas 4000/e411	80	920.627	5.7	7.28
Siemens/DPC Immulite 2000/2500	65	644.698	7.1	7.14
Beckman DxI 600/800	64	587.362	7.3	6.69
Siemens Centaur XP/XPT/Classic	31	625.505	4.6	6.46
Siemens/DPC Immulite 1000	19	634.913	10.6	19.31
SNIBE Maglumi analysers	18	744.829	8.6	18.90
Roche Elecsys	12	929.826	4.9	16.58
TOSOH	13	789.884	8.1	22.26
Beckman Access/LXi725	11	617.376	11.5	26.70
DiaSorin, Liaison	6	625.897	15.5	49.58
DiaSorin Liaison XL	7	702.788	8.2	27.18
Roche Modular E170	6	917.208	5.0	23.61
ELISA	4	814.250	18.0	91.79
Immunotech RIA	4	671.127	18.6	77.81
Siemens Centaur CP	2	612.800	11.1	60.25

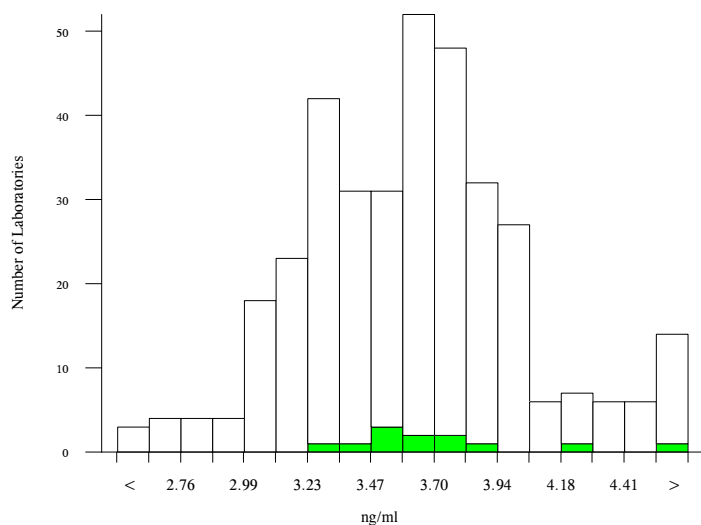


# Digoxin, ng/ml

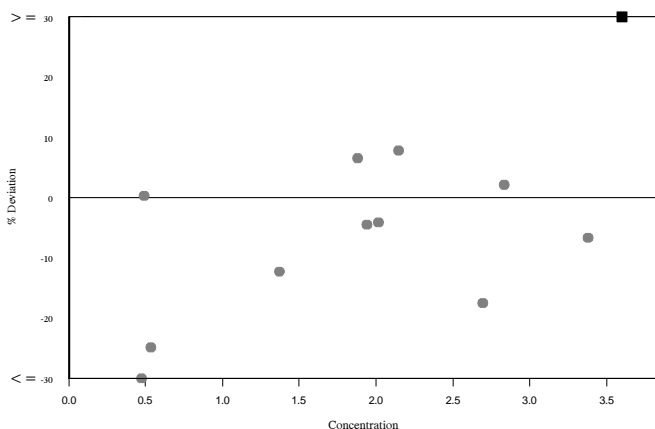
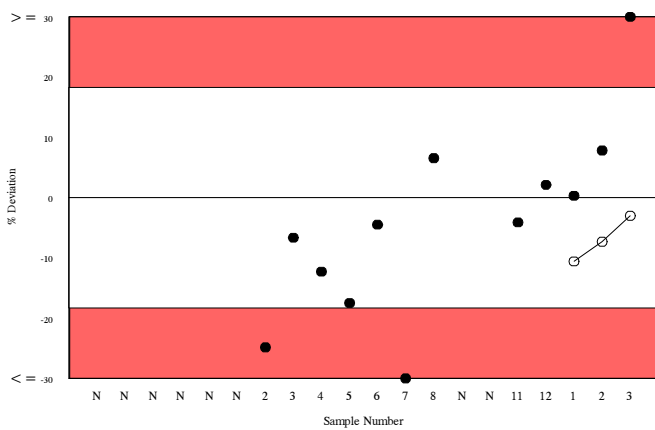
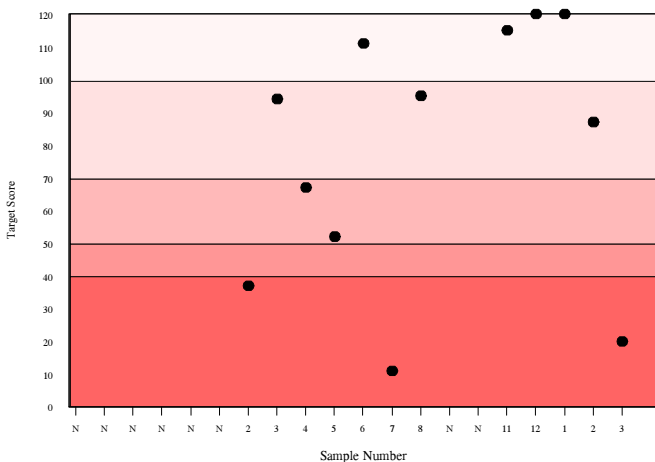
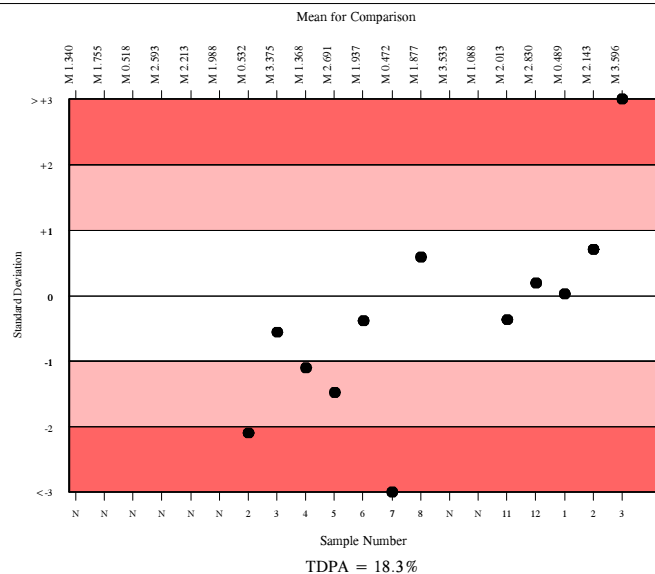
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	327	3.590	8.8	0.02	0.40	32
bioMerieux, VIDAS	10	3.596	5.1	0.07	0.40	2

▲ Your Result	4.900	SDI	3.26
		RMSDI	-0.23
■ Mean for Comparison	3.596	TS	20
		RMTS	79
		%DEV	36.3
		RM%DEV	-3.0

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	18.30%
SDI in bottom 5% of peer group	
TS & %DEV outside limits	



Method	N	Mean	CV%	U <sub>m</sub>
Abbott Architect (CMIA)	81	3.258	3.6	0.02
Roche Cobas E601/602/801	35	3.754	4.1	0.03
Siemens Centaur XP/XPT/Classic	26	4.124	7.7	0.08
Roche Cobas C501/502/701	22	3.721	2.0	0.02
Abbott Architect (PETINIA)	20	3.395	4.7	0.05
Beckman Dxi 600/800	20	3.803	4.8	0.05
Siemens Dimension	14	3.636	5.0	0.06
Beckman AU400/600/640/2700/5400	11	3.874	2.7	0.04
bioMerieux, VIDAS	10	3.596	5.1	0.07
Roche Cobas 4000/e411	11	3.819	10.0	0.14
Roche Integra	10	3.675	5.9	0.09
SNIBE Maglumi analysers	10	3.577	4.1	0.06
Siemens ADVIA 1200/1650/1800/2400	8	3.704	4.3	0.07
Siemens/DPC Immulite 2000/2500	6	4.167	4.6	0.10
Beckman DxC	6	3.304	10.8	0.18
Roche Elecsys	5	3.864	3.7	0.08
Siemens/DPC Immulite 1000	5	4.758	6.6	0.18
Vitros	5	3.783	9.7	0.20
Roche Cobas 4000/c311	4	3.717	4.3	0.10
Roche Modular E170	4	3.654	12.8	0.29
Beckman Access/LXi725	4	3.740	3.9	0.09

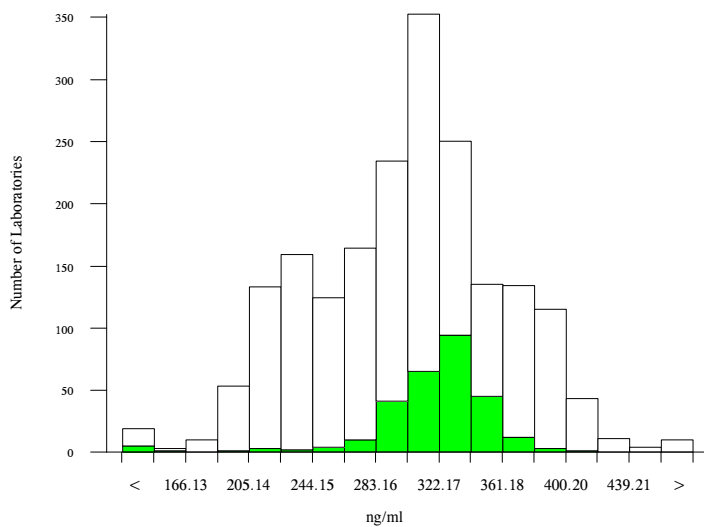
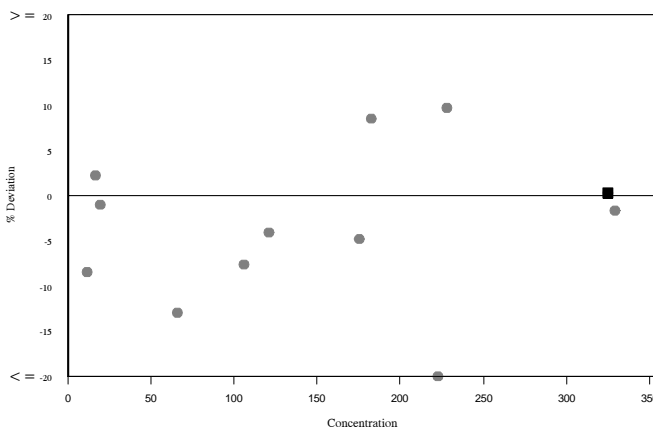
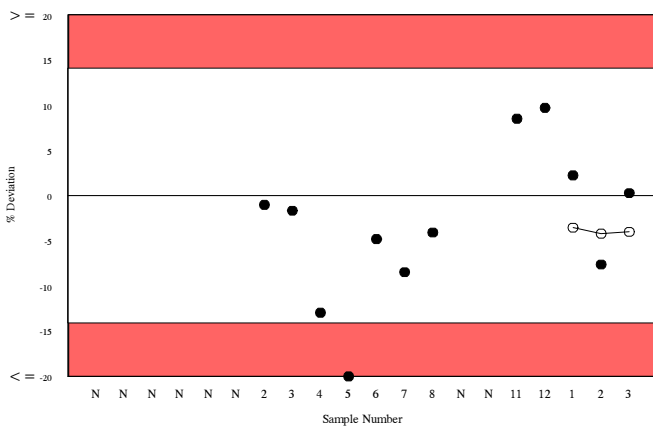
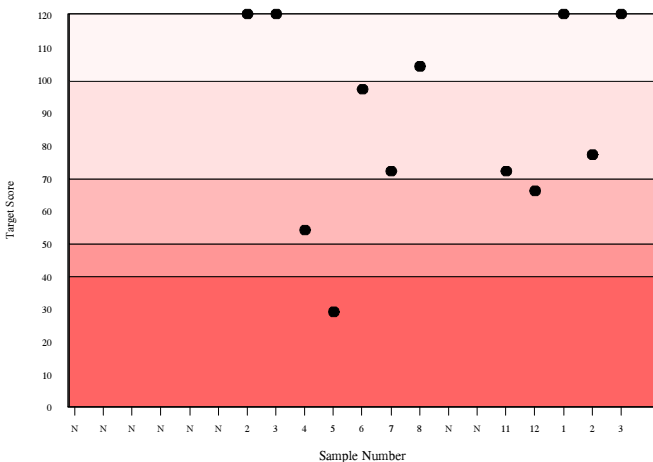
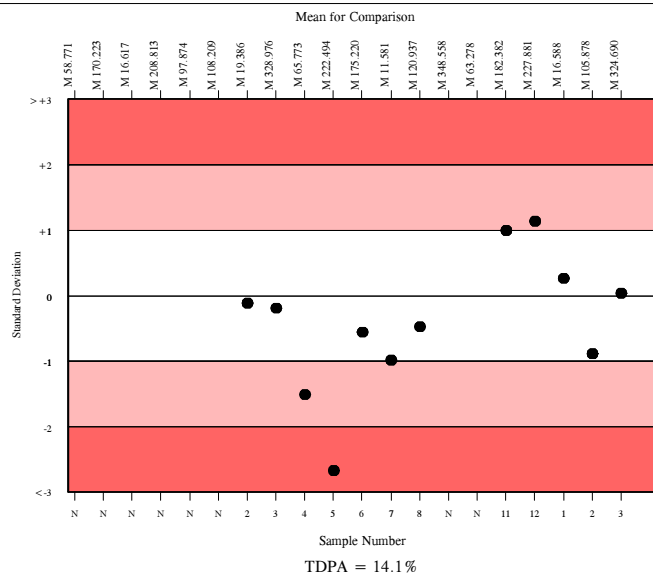


# Ferritin, ng/ml

	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1872	302.673	17.2	1.50	25.95	82
Roche Elecsys / Cobas e411	261	324.690	6.7	1.68	27.83	27

▲ Your Result	325.600	SDI	0.03
		RMSDI	-0.47
■ Mean for Comparison	324.690	TS	120
		RMTS	81
		%DEV	0.3
		RM%DEV	-4.0

Acceptable limits derived from Biological Variation	16.9%
Acceptable limits of performance for RIQAS	14.10%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Modular E170 /Cobas e601/602/801	368	315.996	4.2	0.86
Abbott Architect Chemiluminescence	325	378.153	5.1	1.33
Roche Elecsys / Cobas e411	261	324.690	6.7	1.68
Beckman DxI 600/800	194	226.916	6.0	1.21
Siemens Centaur XP/XPT/Classic	170	297.461	6.3	1.80
Beckman Access/LXi725	60	228.700	5.3	1.97
bioMerieux, VIDAS	49	276.384	11.2	5.52
Siemens/DPC Immulite 2000/2500	45	292.502	7.1	3.87
Ortho Vitros 3600/5600/ECi	44	205.175	6.2	2.41
Roche Cobas C501/502/701	36	265.668	8.2	4.52
Siemens Centaur CP	27	279.833	5.0	3.40
Tosoh	29	228.390	8.7	4.59
DiaSorin, Liaison	24	313.730	11.1	8.91
SNIBE Maglumi analysers	23	271.675	4.5	3.16
Siemens Dimension	19	290.230	3.9	3.24
Beckman AU400/600/640/2700/5400	18	263.761	3.0	2.31
Siemens/DPC Immulite 1000	16	249.844	6.9	5.42
Roche Cobas 4000/c311	18	315.900	12.2	11.36
Roche Integra	9	304.853	2.8	3.57
Fujirebio Lumipulse G Series	9	187.889	2.7	2.09
DiaSorin Liaison XL	10	344.482	7.4	10.10

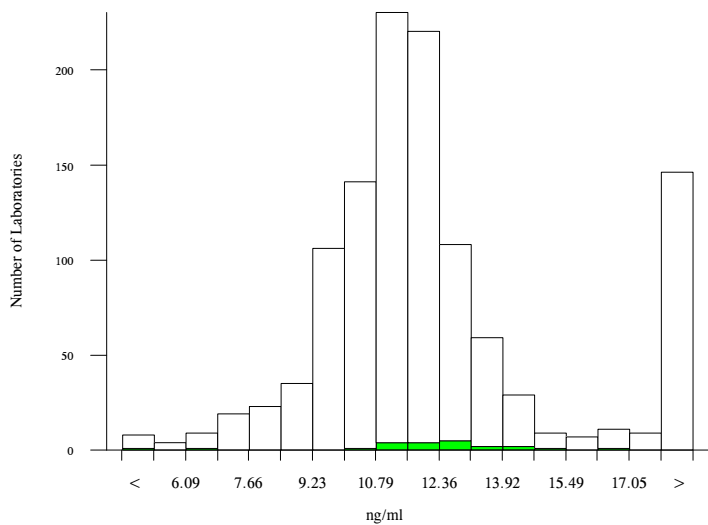


# Folate, ng/ml

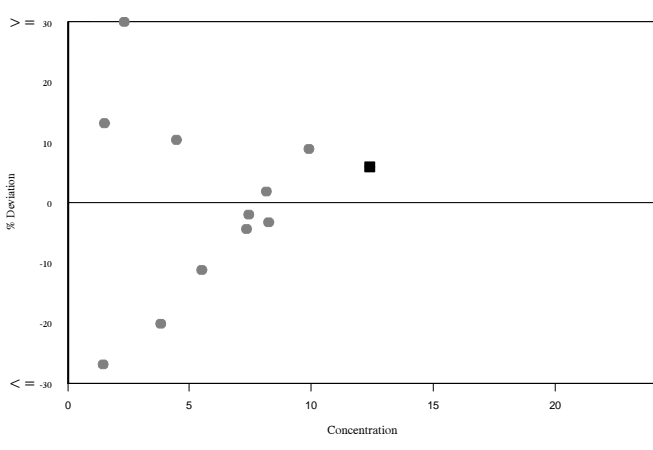
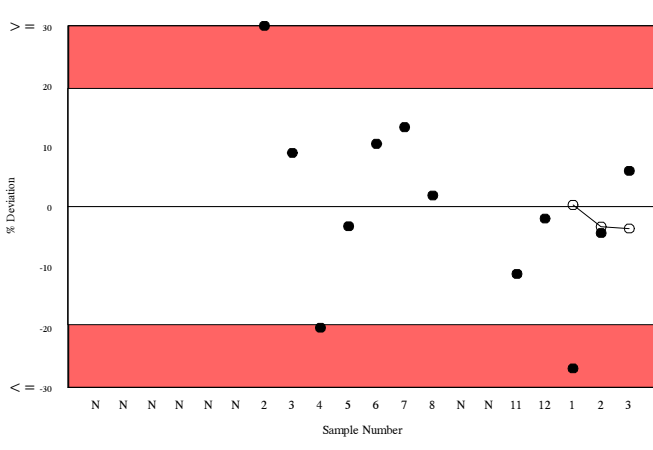
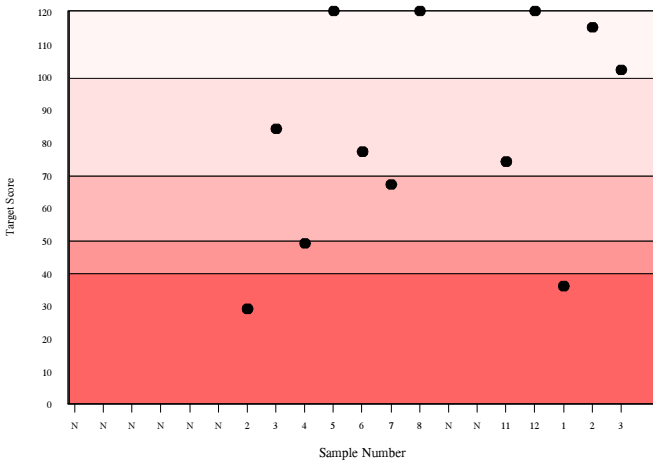
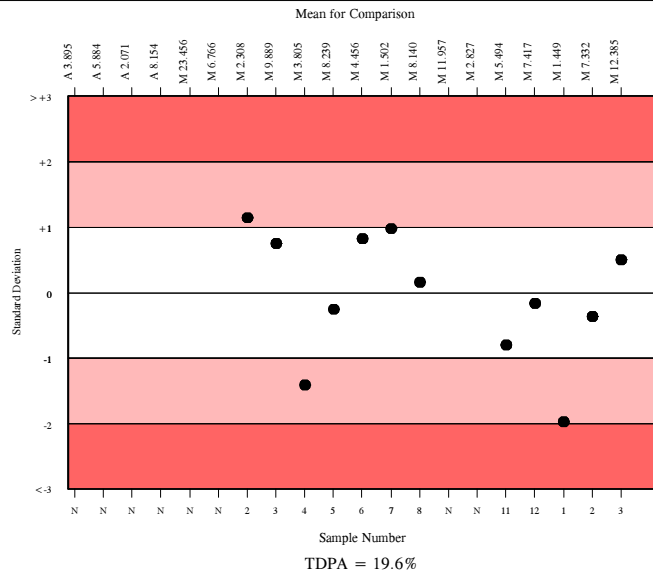
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1044	11.579	18.0	0.08	1.38	135
Roche Folate III - 04476433	18	12.385	8.6	0.31	1.48	4

▲ Your Result	13.120	SDI	0.50
		RMSDI	-0.25
■ Mean for Comparison	12.385	TS	102
		RMTS	88
		%DEV	5.9
		RM%DEV	-3.6

Acceptable limits derived from Biological Variation	39%
Acceptable limits of performance for RIQAS	19.60%



Method	N	Mean	CV%	U <sub>m</sub>
Abbott Architect	234	10.237	6.8	0.06
Siemens Centaur XP/XPT/Classic(enhanced)	115	20.488	8.3	0.20
Roche Folate III - 07559992	110	11.984	8.0	0.11
Beckman DxI 600/800 - A98032	98	11.598	5.1	0.07
Roche Cobas 6000/8000 Folate III	91	12.228	7.2	0.12
Roche Cobas 6000/8000	86	12.351	7.6	0.13
Beckman DxI 600/800 - A14208	65	11.511	4.3	0.08
Roche Cobas 4000/e411	63	12.488	16.1	0.32
Beckman Access/LXi725	35	11.768	4.3	0.11
Siemens/DPC Immulite 2000	33	8.832	10.9	0.21
Roche cobas 4000/e411 Folate III	34	11.471	13.8	0.34
Roche Folate III - 04476433	18	12.385	8.6	0.31
Ortho Vitros 3600/5600/ECi	18	7.305	9.3	0.20
SNIBE Maglumi Analyser	14	27.128	11.0	1.00
Roche Elecsys	16	12.747	22.7	0.90
TOSOH	11	16.747	10.0	0.63
Siemens Dimension	8	6.941	11.0	0.34
Siemens Centaur CP (enhanced kit)	5	20.872	8.4	0.98
Roche Modular E170	6	12.152	6.8	0.42
MP Biomedicals RIA	4	8.330	9.5	0.49
Roche Elecsys Folate	3	11.727	3.9	0.33



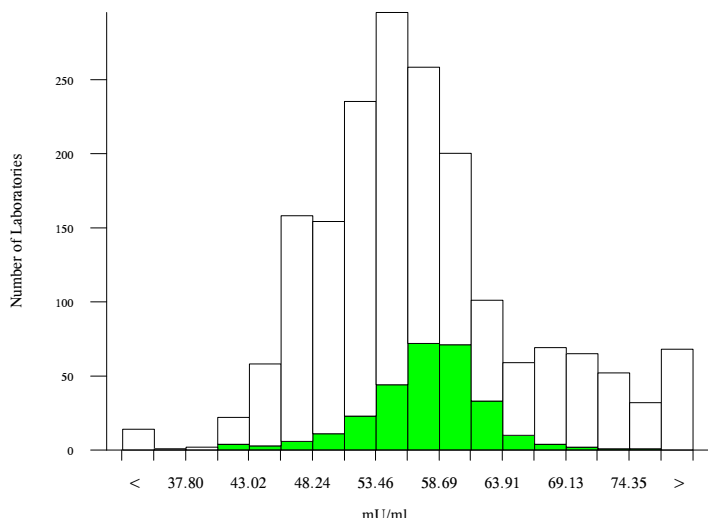


# FSH, mU/ml

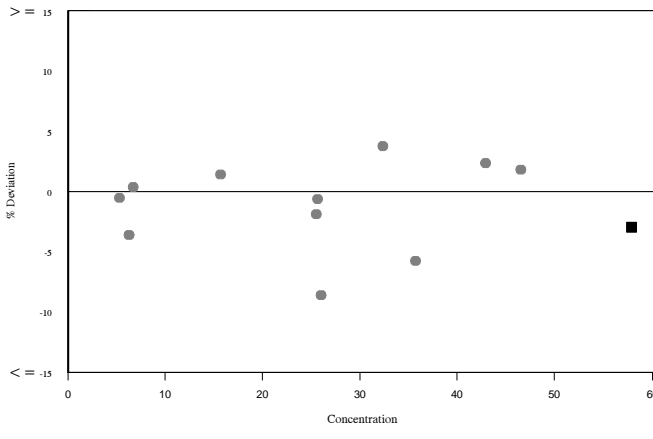
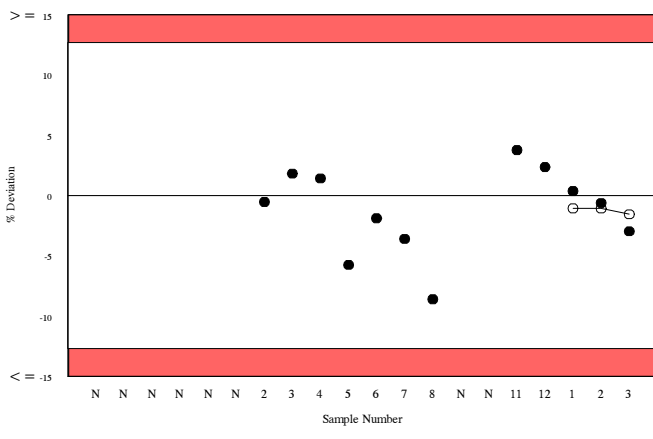
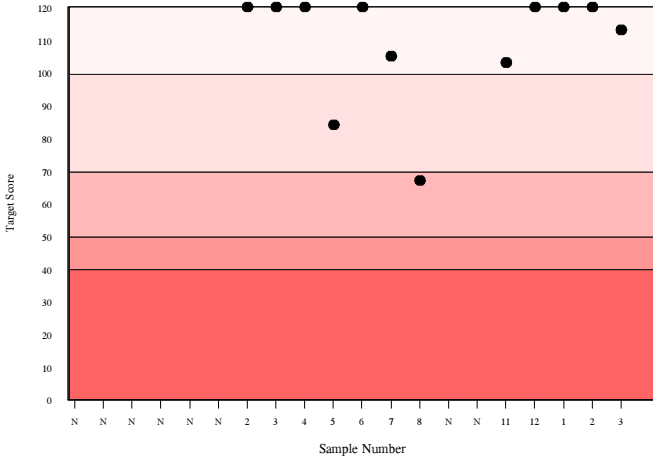
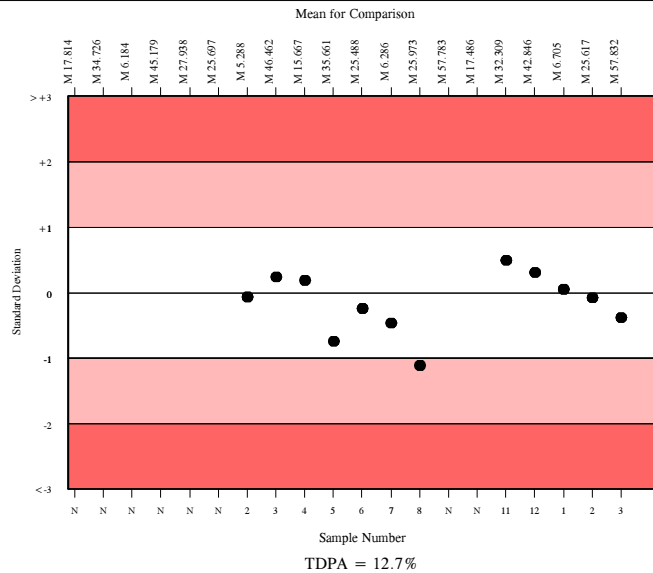
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1716	56.080	12.4	0.21	4.33	130
Roche Cobas 4000/e411	258	57.832	5.9	0.26	4.47	29

▲ Your Result	56.120	SDI	-0.38
		RMSDI	-0.20
■ Mean for Comparison	57.832	TS	113
		RMTS	107
		%DEV	-3.0
		RM%DEV	-1.5

Acceptable limits derived from Biological Variation	21.19%
Acceptable limits of performance for RIQAS	12.70%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	362	54.687	4.5	0.16
Abbott Architect	315	48.636	5.0	0.17
Roche Cobas 4000/e411	258	57.832	5.9	0.26
Beckman DxI 600/800	162	58.382	6.4	0.37
Siemens Centaur XP/XPT/Classic	157	73.460	5.4	0.40
bioMerieux, VIDAS	77	66.809	9.4	0.89
Siemens/DPC Immulite 2000/2500	65	57.405	5.2	0.47
Beckman Access/LXi725	56	58.059	6.1	0.59
Ortho Vitros 3600/5600/ECi	40	45.811	4.7	0.43
Roche Elecsys	34	57.454	6.9	0.85
Tosoh	29	55.695	5.2	0.68
SNIBE Maglumi analysers	29	65.875	7.0	1.07
Siemens/DPC Immulite 1000	25	55.494	7.5	1.04
DiaSorin, Liaison	24	70.151	9.3	1.66
Siemens Centaur CP	21	63.076	7.7	1.32
Roche Modular E170	12	52.687	2.6	0.50
Fujirebio Lumipulse G Series	9	46.163	3.7	0.72
DiaSorin Liaison XL	7	87.844	8.0	3.33
DIAsource, IRMA	4	50.943	13.3	4.24
ELISA	2	47.290	27.8	11.61
Immunotech IRMA	3	47.220	2.9	0.97

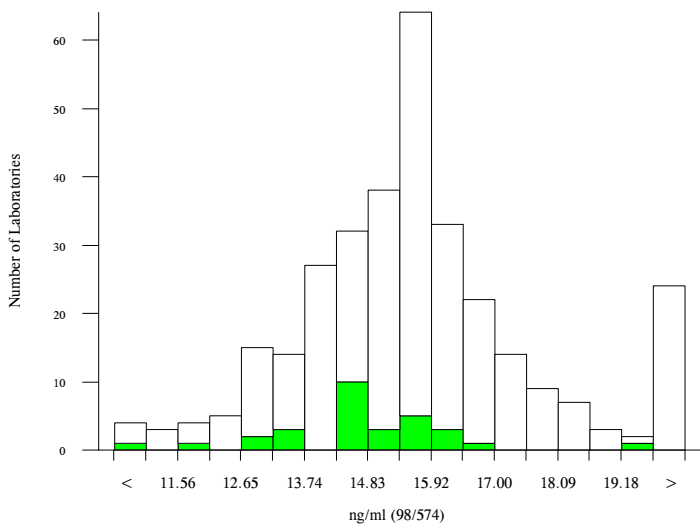


# GH, ng/ml (98/574)

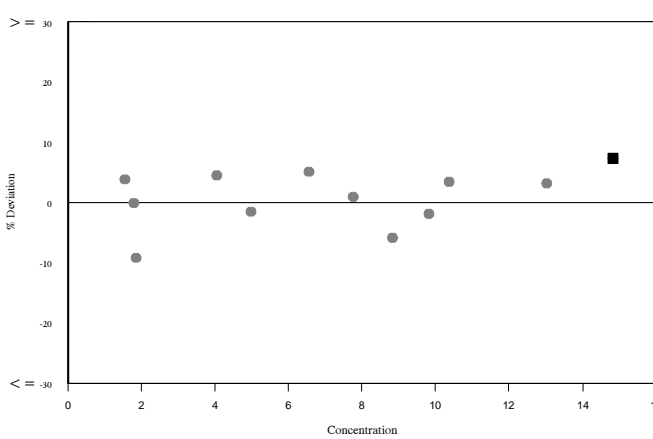
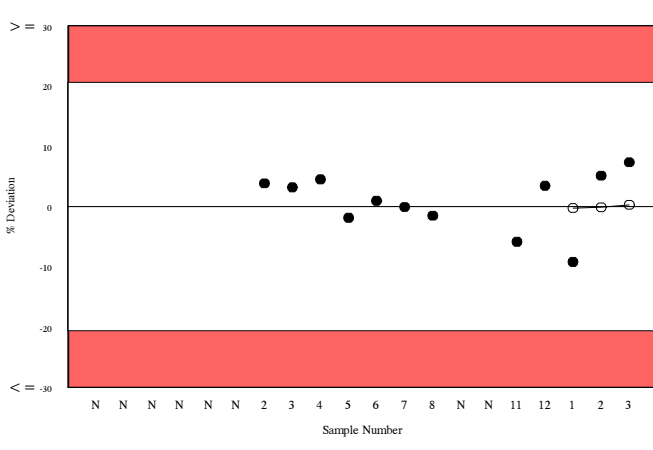
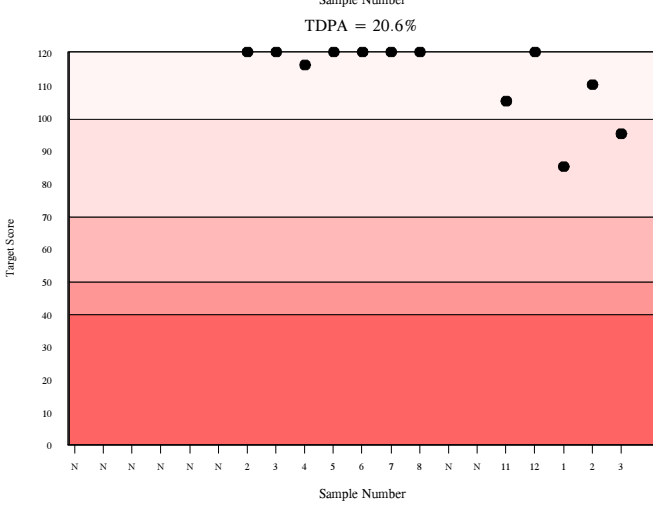
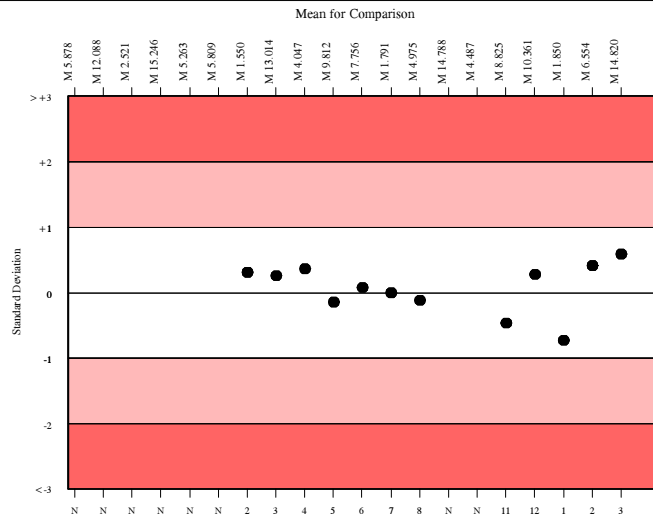
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
<span style="color: black;">□</span> All Methods	289	15.377	9.4	0.11	1.93	31
<span style="color: green;">■</span> Roche Cobas 4000/e411	27	14.820	6.8	0.24	1.86	3

<span style="color: black;">▲</span> Your Result	15.910	SDI RMSDI	0.59 0.02
<span style="color: green;">■</span> Mean for Comparison	14.820	TS RMTS	95 111
		%DEV RM%DEV	7.4 0.3

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



Method	N	Mean	CV%	U <sub>m</sub>
Siemens/DPC Immulite 2000/2500	105	16.282	5.8	0.11
Roche Cobas 6000/8000	36	14.793	5.3	0.16
Roche Cobas 4000/e411	27	14.820	6.8	0.24
Beckman DxI 600/800	25	13.357	4.3	0.14
Siemens/DPC Immulite 1000	22	15.714	5.0	0.21
SNIBE Maglumi analysers	17	21.685	3.9	0.26
Beckman Access/LXi725	10	13.788	7.9	0.43
DiaSorin, Liaison	9	15.367	4.8	0.31
DiaSorin Liaison XL	10	15.730	10.3	0.64
IDS iSYS	7	14.404	7.5	0.51
Tosoh	7	16.099	5.9	0.45
CIS, IRMA	4	15.079	2.7	0.25
Roche Elecsys	4	15.440	2.4	0.23
DIAsource, IRMA	3	14.711	6.2	0.66

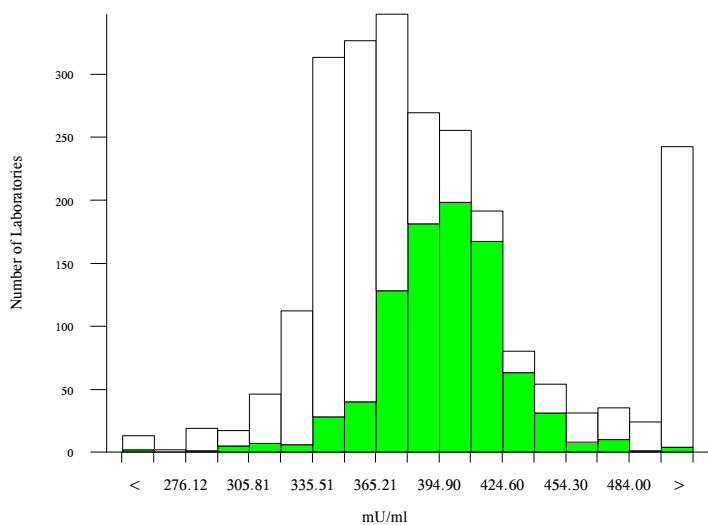


# hCG, mU/ml

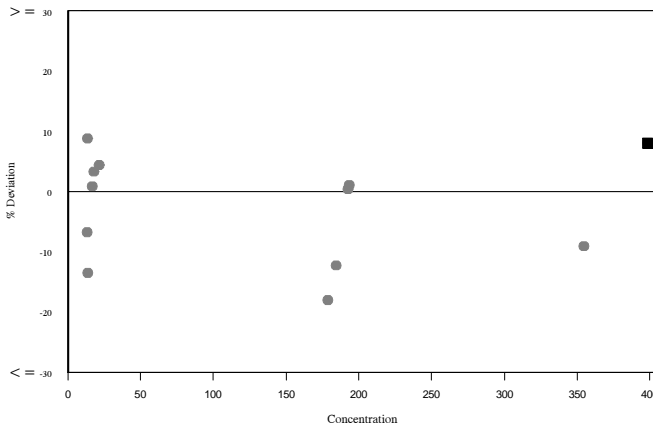
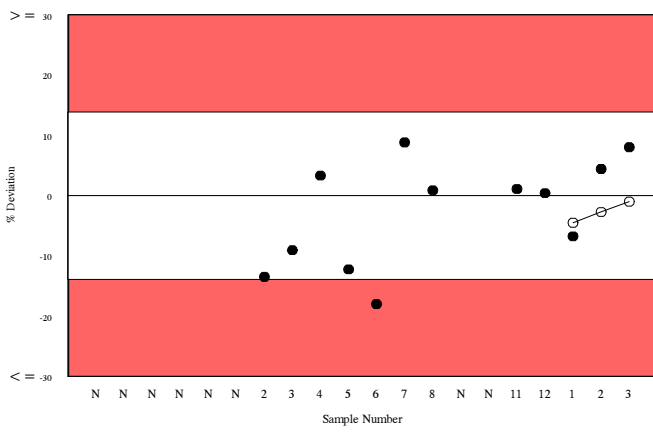
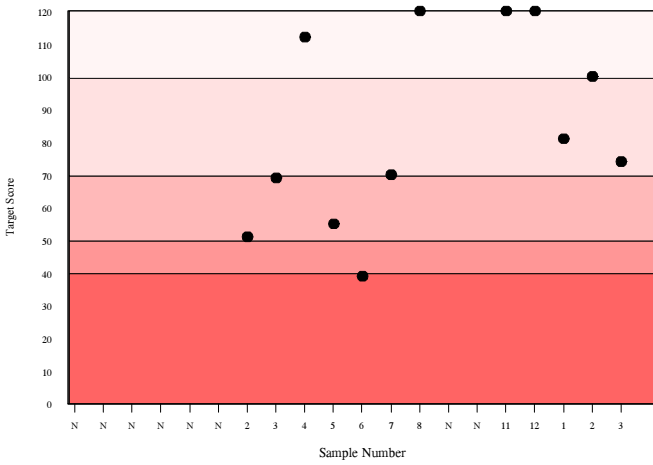
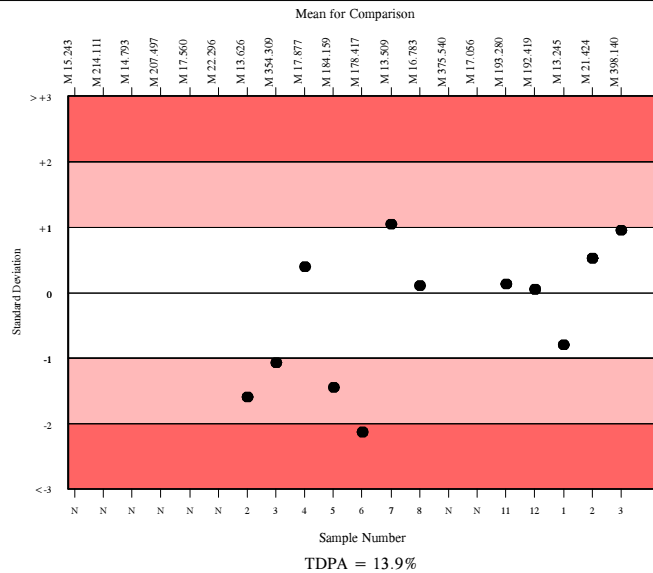
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	2136	380.060	10.4	1.07	32.12	244
Roche hCG + Beta	815	398.140	5.5	0.95	33.65	67

▲ Your Result	430.100	SDI	0.95
		RMSDI	-0.12
■ Mean for Comparison	398.140	TS	74
		RMTS	89
		%DEV	8.0
		RM%DEV	-1.0

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	13.90%



Method	N	Mean	CV%	U <sub>m</sub>
Roche hCG+Beta	815	398.140	5.5	0.95
Abbott Architect	415	350.767	4.1	0.88
Siemens Centaur XP/XPT/Classic	180	348.608	4.1	1.32
Beckman DxI 600/800	140	369.210	4.9	1.93
bioMerieux, VIDAS	99	514.918	7.5	4.83
Roche hCG STAT(Intact)	73	385.443	4.9	2.74
Siemens/DPC Immulite 2000	69	572.881	8.9	7.63
Beckman Access Total BhCG (5th IS)	61	362.643	6.1	3.56
Ortho Vitros 3600/5600/ECi	48	513.621	3.3	3.04
Beckman Access/LXi725	44	367.262	4.2	2.89
Beckman DXI Total BhCG (5th IS)	46	373.817	4.4	3.02
Siemens Centaur CP	42	350.248	4.1	2.77
Siemens/DPC Immulite 1000	31	618.684	10.7	14.86
SNIBE Maglumi analysers	22	450.530	4.0	4.75
Tosoh	16	513.297	5.0	8.03
Siemens Dimension	17	486.381	4.1	5.99
DiaSorin, Liaison	16	321.543	11.4	11.51
DiaSorin Liaison XL	15	333.723	7.4	7.99
Fujirebio Lumipulse G Series	10	287.195	3.3	3.76
Radiometer AQT90 Flex	6	391.000	5.4	10.71
Roche Cobas Core EIA	6	401.492	6.8	13.83



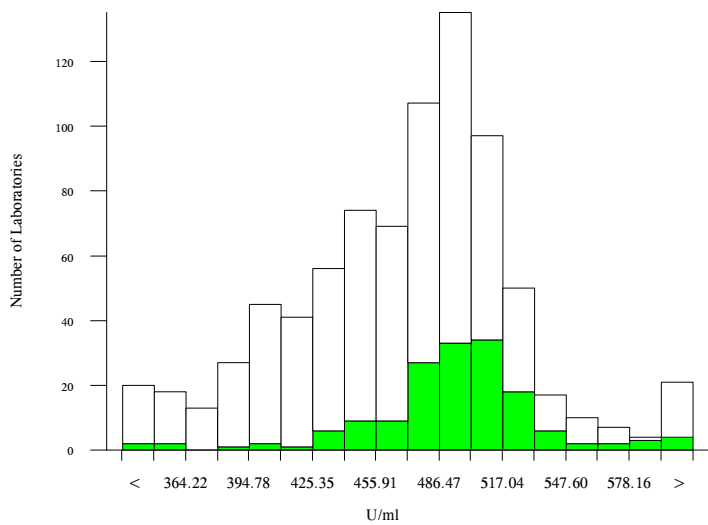
**RIQAS**  
PROFICIENCY TESTING

# IgE, U/ml

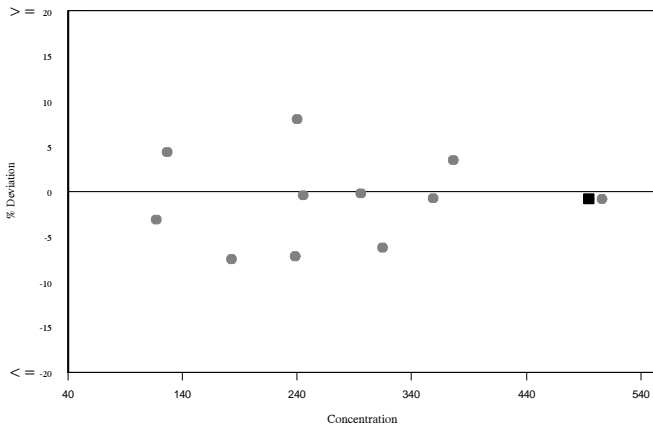
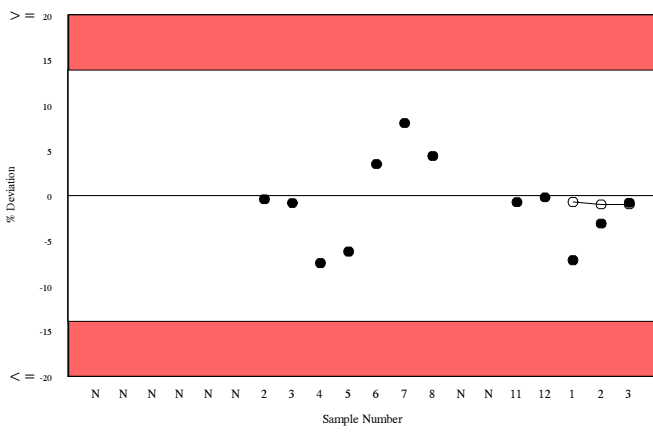
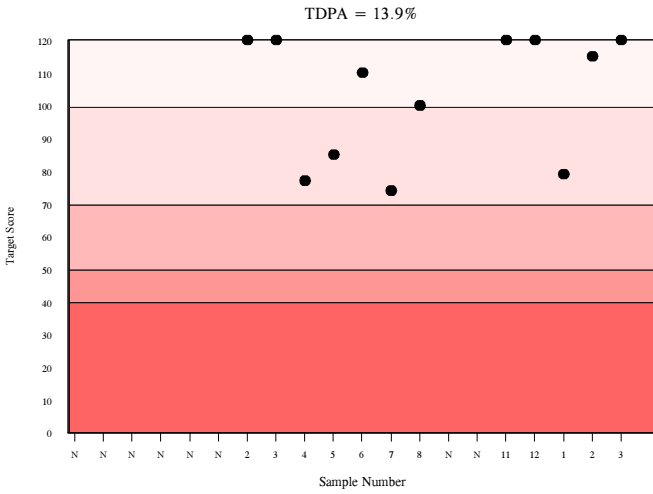
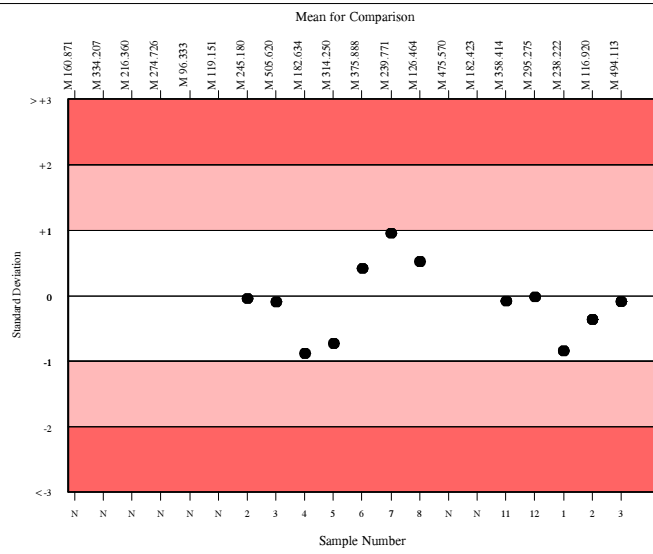
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	739	471.195	8.6	1.87	39.82	73
Roche Cobas 4000/e411	143	494.113	5.3	2.71	41.76	18

▲ Your Result	490.200	SDI RMSDI	-0.09 -0.12
■ Mean for Comparison	494.113	TS RMTS	120 100
		%DEV RM%DEV	-0.8 -1.0

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	13.90%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	152	494.268	3.9	1.96
Roche Cobas 4000/e411	143	494.113	5.3	2.71
Siemens/DPC Immulite 2000/2500	92	455.038	9.7	5.76
Siemens Centaur XP/XPT/Classic	71	427.797	5.5	3.50
bioMérieux, VIDAS	61	429.543	12.6	8.64
Abbott Architect	53	483.734	3.4	2.82
TOSOH	29	471.709	7.0	7.63
Siemens/DPC Immulite 1000	20	481.650	7.7	10.39
Phadia Immucap instruments	18	414.444	9.6	11.72
SNIBE Maglumi analysers	16	428.721	9.0	12.09
Roche Elecsys	13	468.754	10.4	16.85
Beckman Dxi 600/800	13	467.577	11.9	19.30
Siemens Centaur CP	10	442.310	9.0	15.67
Roche Modular E170	8	492.793	2.7	5.89
Siemens/Dade Behring Nephelometer	6	470.700	2.5	5.99
Fujirebio Lumipulse G Series	6	389.013	5.3	10.57
ELISA	4	555.248	29.5	102.24
Biomed	5	496.018	5.6	15.56
Beckman Immage	3	348.667	2.4	6.14
Randox RX series Instruments	3	552.253	17.9	71.31
Monobind Inc. ELISA / CLIA	3	426.333	13.0	39.93

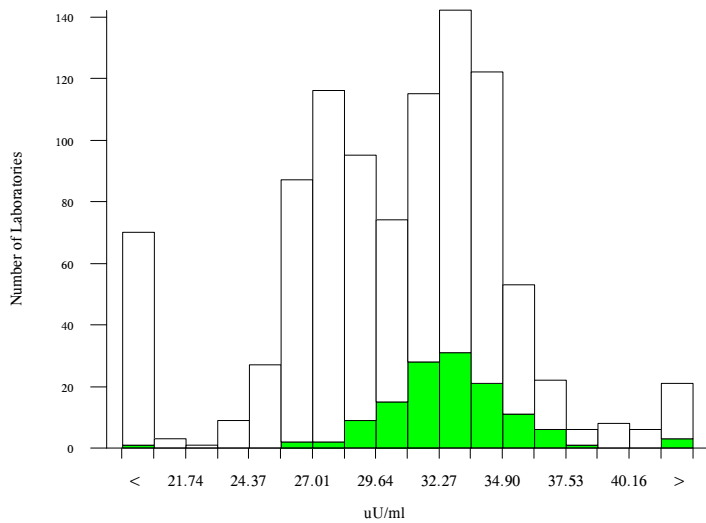


# Insulin, uU/ml

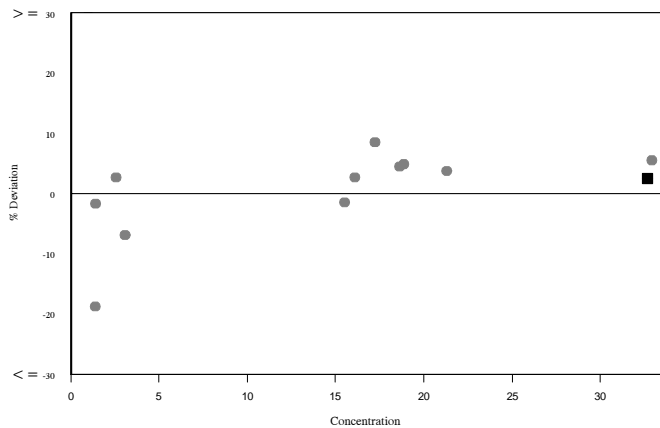
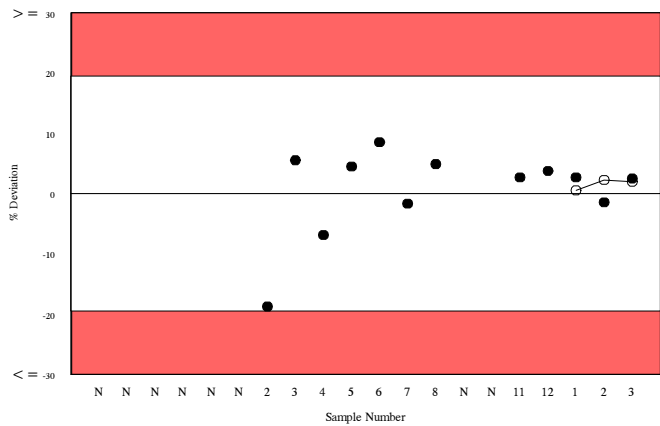
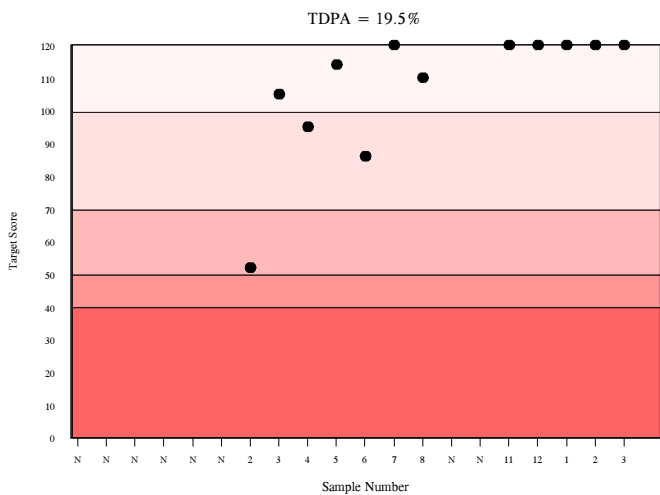
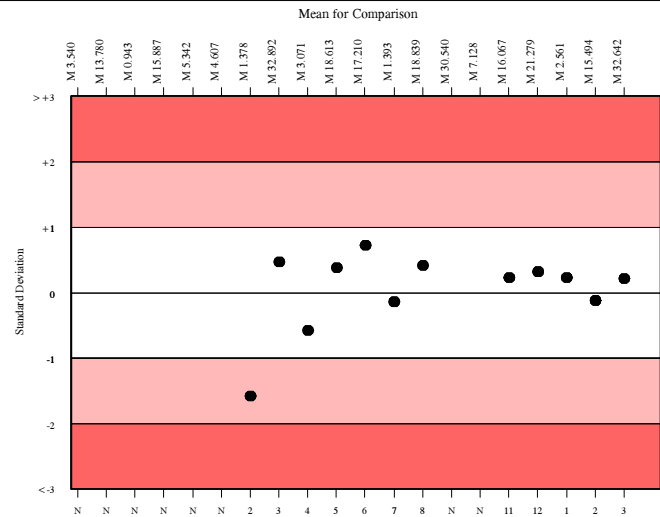
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	889	30.959	11.3	0.15	3.67	90
Roche Cobas 4000/e411	119	32.642	5.9	0.22	3.87	12

▲ Your Result	33.460	SDI RMSDI	0.21 0.17
■ Mean for Comparison	32.642	TS RMTS	120 112
		%DEV RM%DEV	2.5 2.0

Acceptable limits derived from Biological Variation	32.9%
Acceptable limits of performance for RIQAS	19.50%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	200	33.124	3.8	0.11
Abbott Architect	169	27.419	3.6	0.09
Roche Cobas 4000/e411	119	32.642	5.9	0.22
Beckman DxI 600/800	112	28.678	5.7	0.19
Siemens Centaur XP/XPT/Classic	77	33.021	5.4	0.25
Siemens/DPC Immulite 2000	38	9.323	24.7	0.47
Tosoh	23	34.483	5.5	0.49
SNIBE Maglumi analysers	23	25.586	4.3	0.28
Roche Elecsys	20	32.811	6.8	0.62
Beckman Access/LXi725	21	28.716	7.2	0.56
Siemens/DPC Immulite 1000	17	8.723	11.0	0.29
DiaSorin, Liaison	13	36.811	5.2	0.66
Roche Modular E170	11	33.248	3.2	0.40
Siemens Centaur CP	7	32.367	4.6	0.71
Fujirebio Lumipulse G Series	8	32.714	7.2	1.04
DiaSorin Liaison XL	5	38.432	7.2	1.55
Diasource IRMA	4	35.935	29.7	6.67
CIS, RIA Coated tube	2	35.050	23.2	7.19
DRG ELISA	1	44.020	0.0	0.00
Mindray CL Series	1	34.700	0.0	0.00



**RIQAS**



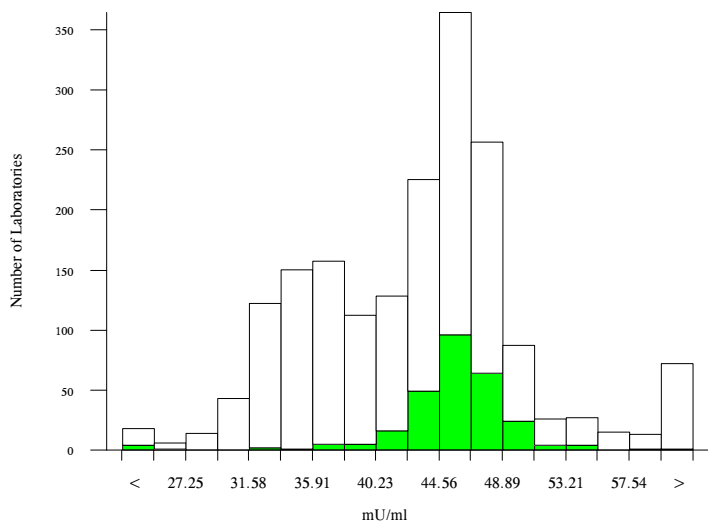
0010

# LH, mU/ml

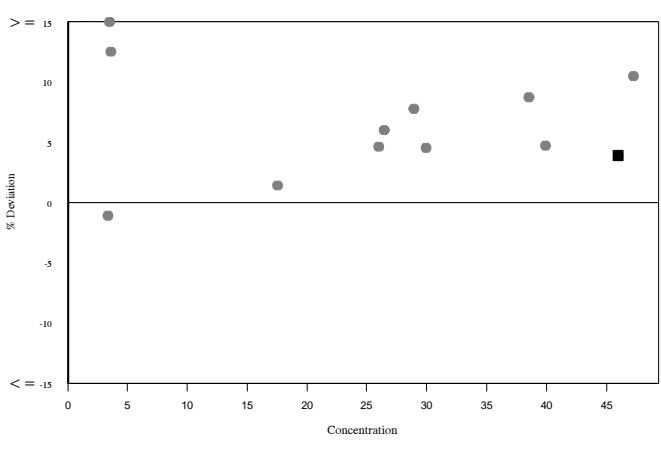
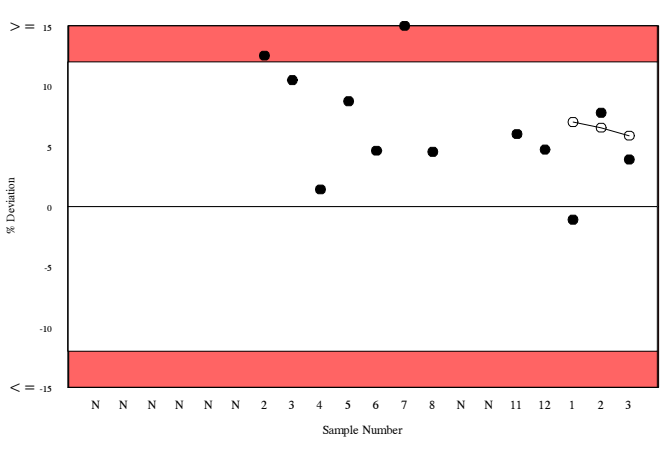
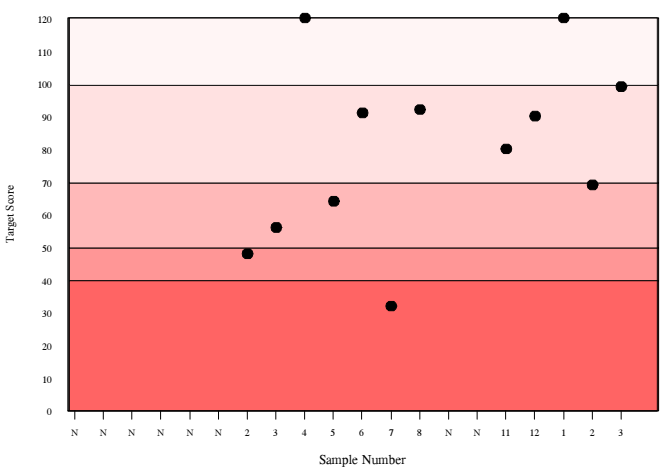
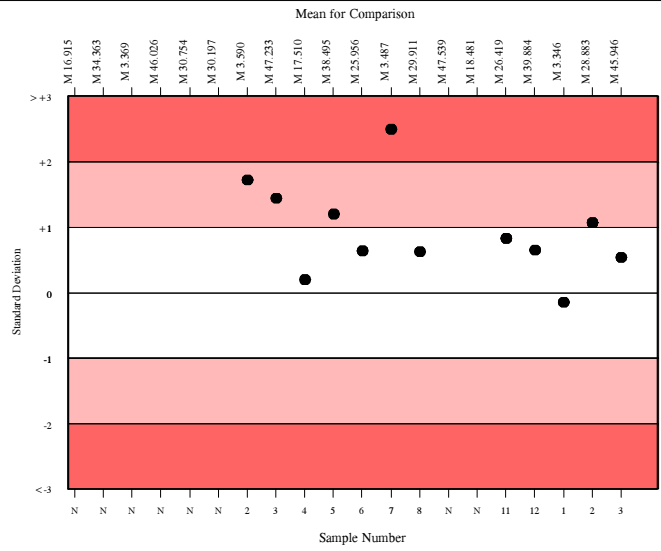
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1711	42.403	13.6	0.17	3.09	126
Roche Cobas 4000/e411	250	45.946	4.8	0.17	3.35	29

▲ Your Result	47.740	SDI	0.54
		RMSDI	0.81
■ Mean for Comparison	45.946	TS	99
		RMTS	85
		%DEV	3.9
		RM%DEV	5.9

Acceptable limits derived from Biological Variation	27.92%
Acceptable limits of performance for RIQAS	12.00%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	352	46.259	3.4	0.10
Abbott Architect	302	36.494	5.7	0.15
Roche Cobas 4000/e411	250	45.946	4.8	0.17
Siemens Centaur XP/XPT/Classic	166	44.261	5.1	0.22
Beckman Dxi 600/800	157	33.635	6.1	0.21
bioMerieux, VIDAS	70	43.471	5.9	0.38
Beckman Access/LXi725	60	33.656	6.2	0.33
Siemens/DPC Immulite 2000	58	60.922	6.9	0.69
Ortho Vitros 3600/5600/ECi	39	48.265	4.6	0.45
Roche Elecsys	35	46.574	6.1	0.60
Tosoh	32	41.814	3.8	0.35
SNIBE Maglumi analysers	26	44.753	4.5	0.50
Siemens Centaur CP	23	44.462	5.1	0.59
Siemens/DPC Immulite 1000	24	61.601	6.5	1.02
DiaSorin, Liaison	21	53.377	7.6	1.11
Roche Modular E170	14	45.744	3.4	0.52
Fujirebio Lumipulse G Series	8	41.563	3.4	0.63
DiaSorin Liaison XL	9	58.946	8.7	2.15
DIAsource, IRMA	4	27.595	2.9	0.50
ELISA	1	47.500	0.0	0.00
Immunotech IRMA	3	51.893	12.5	4.67

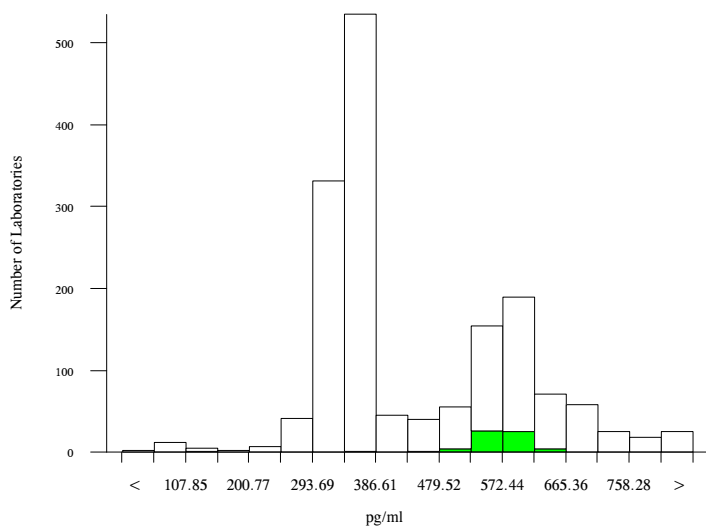


# Oestradiol, pg/ml

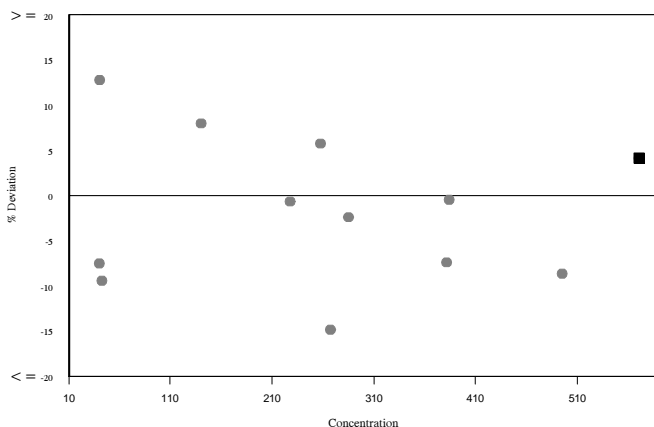
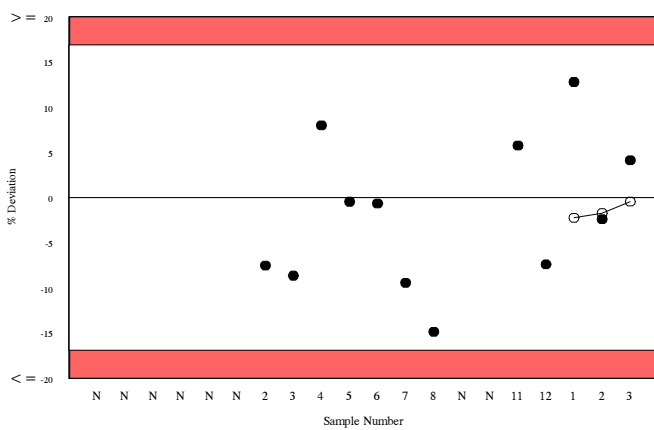
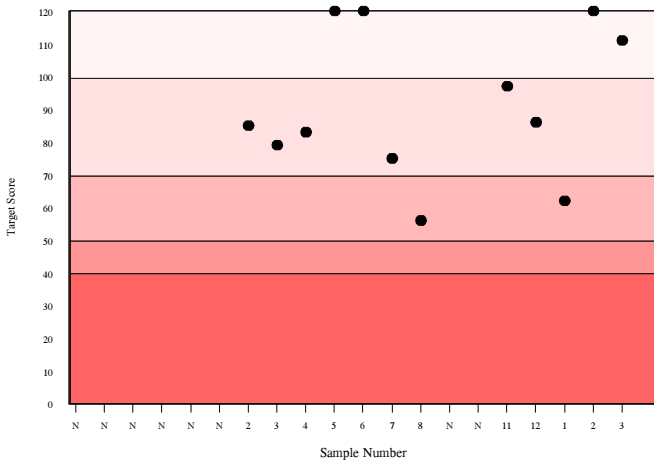
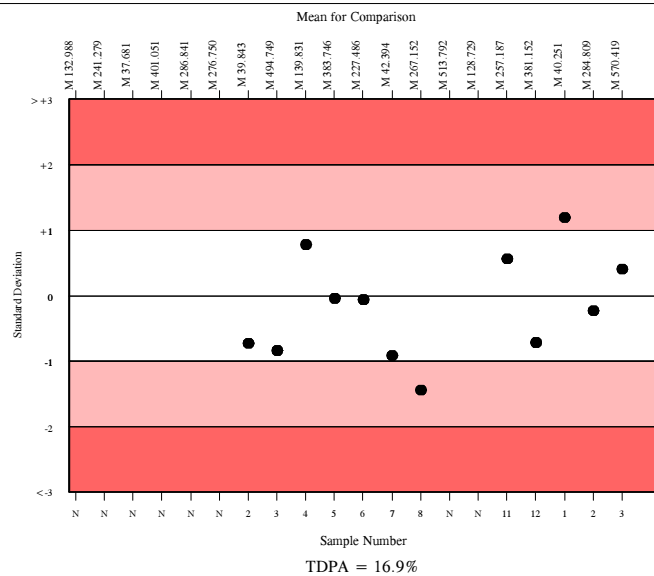
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1536	433.070	28.6	3.95	44.50	80
Siemens/DPC Immulite 2000/2500	55	570.419	4.3	4.10	58.61	7

▲ Your Result	594.000	SDI	0.40
		RMSDI	-0.05
■ Mean for Comparison	570.419	TS	111
		RMTS	93
		%DEV	4.1
		RM%DEV	-0.4

Acceptable limits derived from Biological Variation	26.86%
Acceptable limits of performance for RIQAS	16.90%



Method	N	Mean	CV%	U <sub>m</sub>
Abbott Architect	268	312.431	3.2	0.77
Roche Cobas 6000/8000 (Estradiol III)	216	361.236	3.3	1.02
Beckman DxI 600/800	154	566.610	9.1	5.22
Roche Cobas 4000/e411 (Estradiol III)	113	367.426	3.6	1.55
Roche Cobas 4000/e411 (Estradiol II)	101	363.259	4.7	2.13
Roche Cobas 6000/8000 (Estradiol II)	104	360.061	3.8	1.68
Siemens Centaur XP/XPT/Classic (eE2)	81	587.523	4.0	3.26
bioMerieux, VIDAS	69	708.391	6.1	6.46
Siemens/DPC Immulite 2000/2500	55	570.419	4.3	4.10
Siemens Centaur XP/XPT/Classic	48	580.573	4.4	4.63
Beckman Access/LXi725	41	569.729	5.9	6.61
Roche Elecsys (Estradiol II)	24	365.385	4.8	4.46
Siemens/DPC Immulite 1000	24	633.435	7.4	12.00
SNIBE Maglumi analysers	23	816.289	3.5	7.52
Ortho Vitros 3600/5600/ECi	22	584.778	8.6	13.38
DiaSorin, Liaison	16	271.508	6.0	5.12
Tosoh (E2)	14	455.661	6.4	9.73
Roche Elecsys (Estradiol III)	12	348.899	4.0	4.98
Siemens Centaur CP	12	592.285	8.6	18.37
Roche Modular E170 (Estradiol III)	10	354.610	4.4	6.18
Tosoh (iE2-hsE2)	9	469.267	5.7	11.22



**RIQAS**

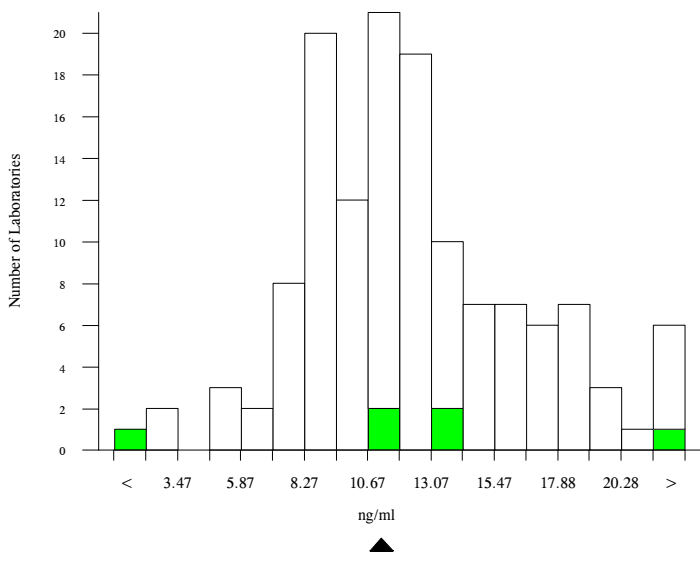
# 17-OH-Progesterone, ng/ml

	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	120	11.880	26.9	0.37	3.20	17
DiaMetra ELISA	4	12.583	10.9	0.85	1.61a	2

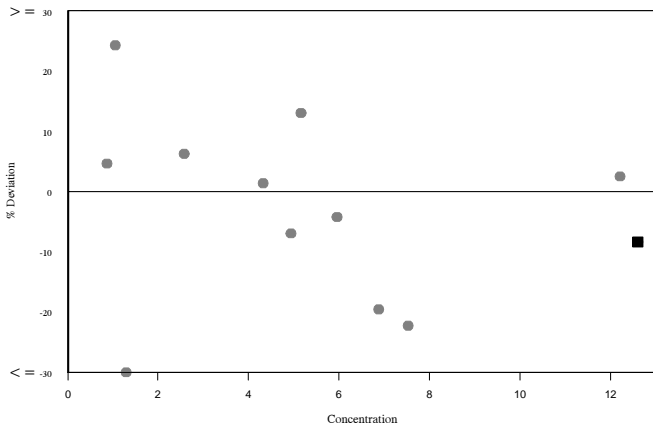
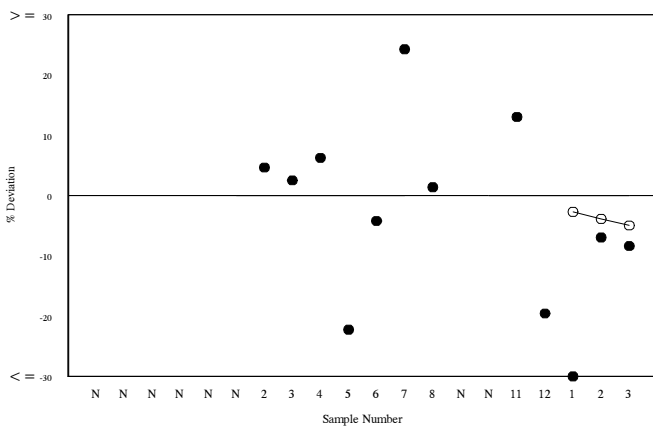
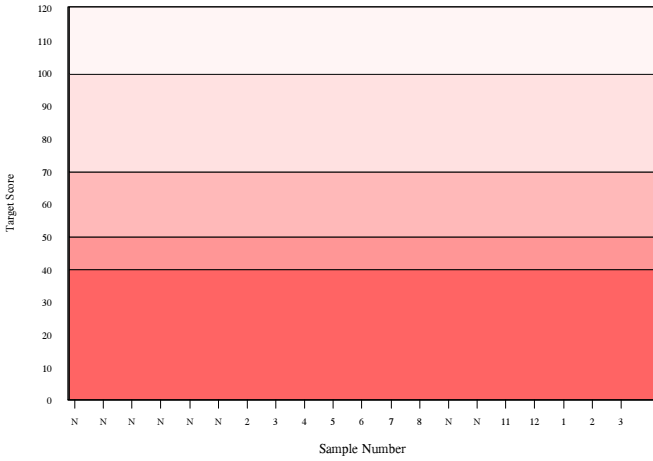
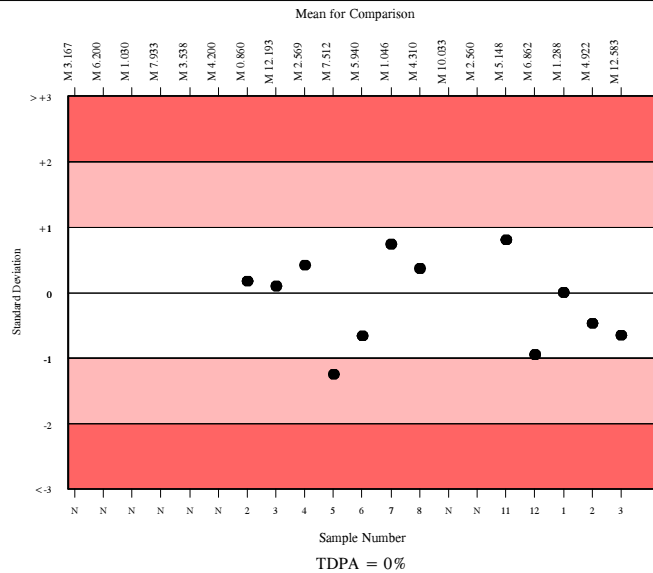
▲ Your Result	11.530	SDI	-0.65
		RMSDI	-0.17
■ Mean for Comparison	12.583	TS	N/A
		RMTS	Too Few
		%DEV	-8.4
		RM%DEV	-5.0

**The mean for comparison is not statistically significant**

Acceptable limits derived from Biological Variation	29.7%
Acceptable limits of performance for RIQAS	N/A



Method	N	Mean	CV%	U <sub>m</sub>
DRG ELISA	28	13.374	27.1	0.86
ELISA	15	14.690	22.2	1.05
SNIBE Maglumi analysers	17	10.894	13.7	0.45
Immunotech RIA	12	8.874	15.5	0.50
IBL ELISA	7	11.724	29.4	1.63
DIAsource, RIA	9	10.771	9.3	0.42
DIAsource, ELISA	7	15.795	25.5	1.90
DiaMetra ELISA	4	12.583	10.9	0.85
CIS, RIA Coated tube	4	10.343	15.7	1.01
Novatec ELISA	4	12.978	14.3	1.16
Beckman Coulter RIA	3	9.391	13.1	0.89
Monobind Inc. ELISA / CLIA	2	9.770	13.5	1.16



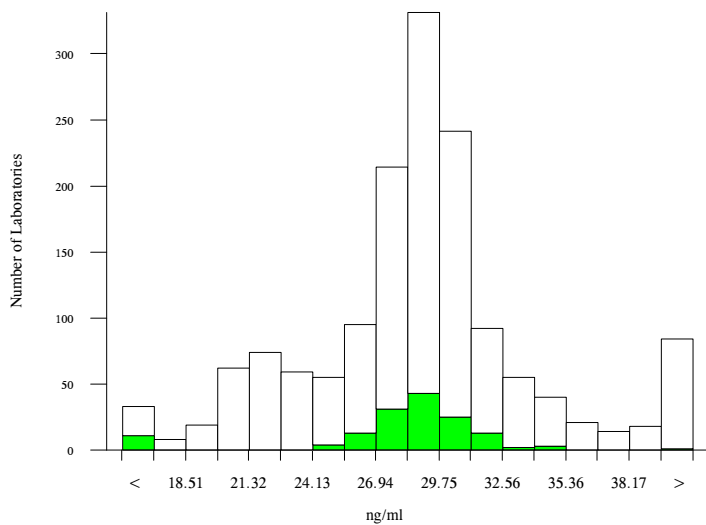


# Progesterone, ng/ml

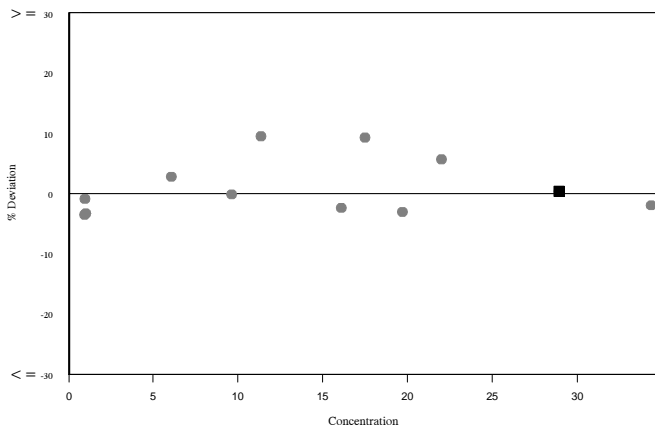
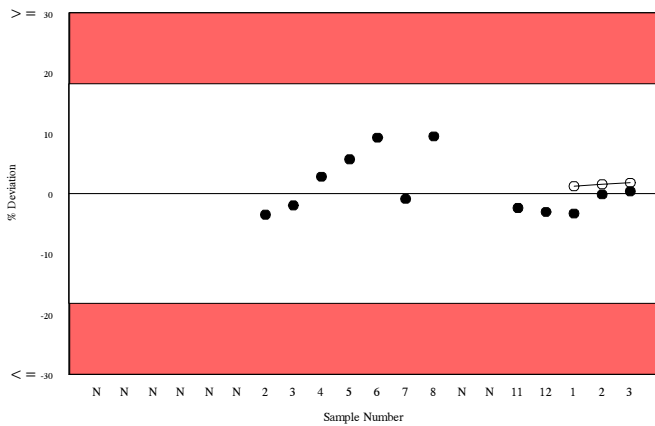
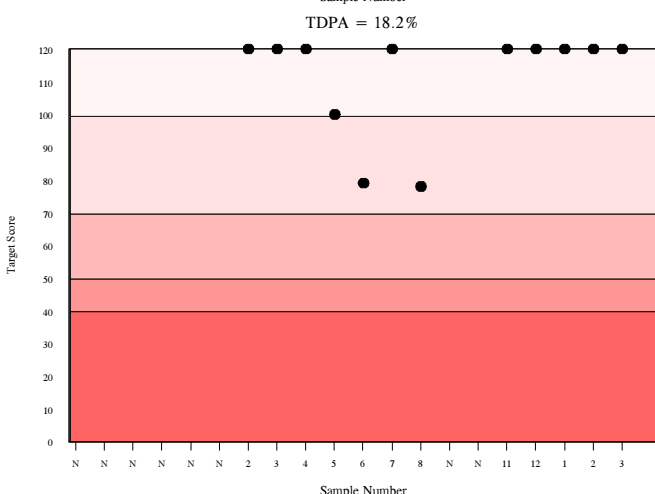
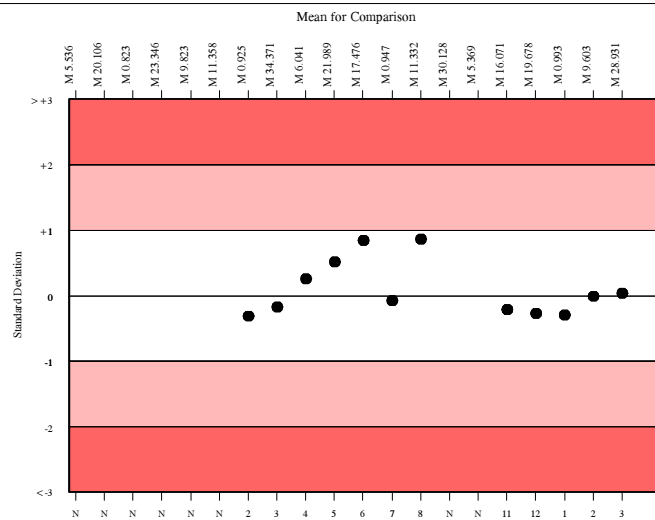
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1379	28.348	13.2	0.13	3.14	138
Roche Cobas 4000/e411 (Prog. II)	128	28.931	5.9	0.19	3.20	18

▲ Your Result	29.040	SDI	0.03
		RMSDI	0.16
■ Mean for Comparison	28.931	TS	120
		RMTS	109
		%DEV	0.4
		RM%DEV	1.8

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	18.20%



Method	N	Mean	CV%	U <sub>m</sub>
Abbott Architect	245	28.300	6.5	0.15
Roche Cobas 6000/8000 (Prog. II)	159	29.527	4.5	0.13
Roche Cobas 4000/e411 (Prog. II)	128	28.931	5.9	0.19
Siemens Centaur XP/XPT/Classic	127	21.918	7.0	0.17
Roche Cobas 6000/8000 (Prog. III)	136	29.444	3.8	0.12
Beckman DXI Prog. Cal 33555	114	31.457	8.9	0.33
Roche Cobas 4000/e411 (Prog. III)	72	29.201	3.8	0.16
bioMerieux, VIDAS	71	42.456	7.2	0.45
Siemens/DPC Immulite 2000/2500	54	21.440	7.3	0.26
Beckman Access Prog. Cal 33555	56	30.355	8.1	0.41
Siemens/DPC Immulite 1000	32	25.314	10.1	0.56
Roche Elecsys (Prog. II)	24	28.397	5.4	0.39
SNIBE Maglumi analysers	25	36.656	17.5	1.60
Tosoh	22	33.251	7.4	0.66
Beckman DXI Prog.DE Cal. A80773	22	28.424	10.8	0.82
Ortho Vitros 3600/5600/ECi	21	33.772	3.2	0.30
Siemens Centaur CP	13	23.956	10.4	0.86
DiaSorin, Liaison	14	24.059	16.3	1.31
Roche Modular E170 (Prog. III)	8	29.535	3.7	0.49
Roche Elecsys (Prog. III)	5	28.693	4.7	0.75
Fujirebio Lumipulse G Series	5	30.056	6.4	1.07

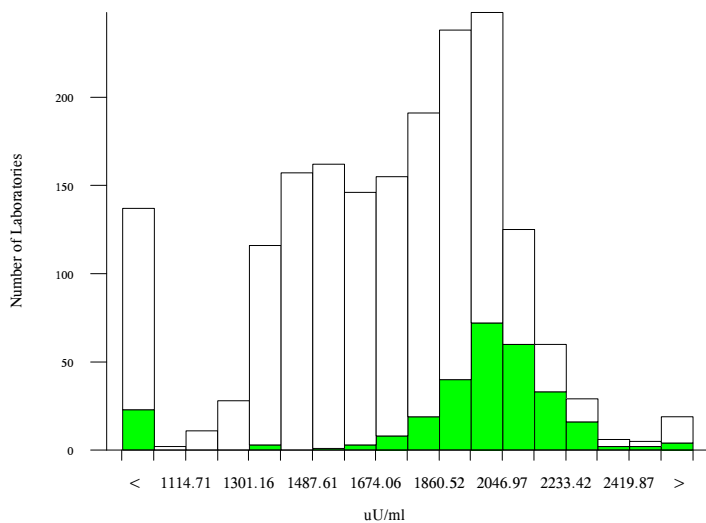


# Prolactin, uU/ml

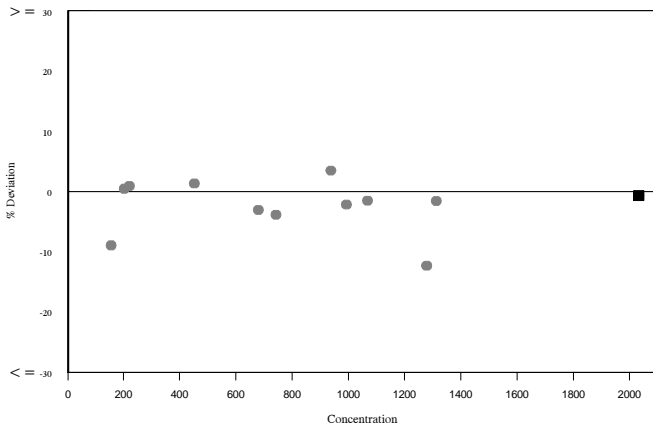
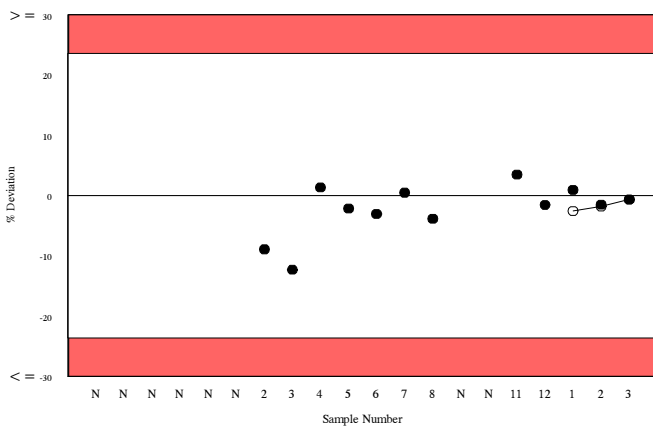
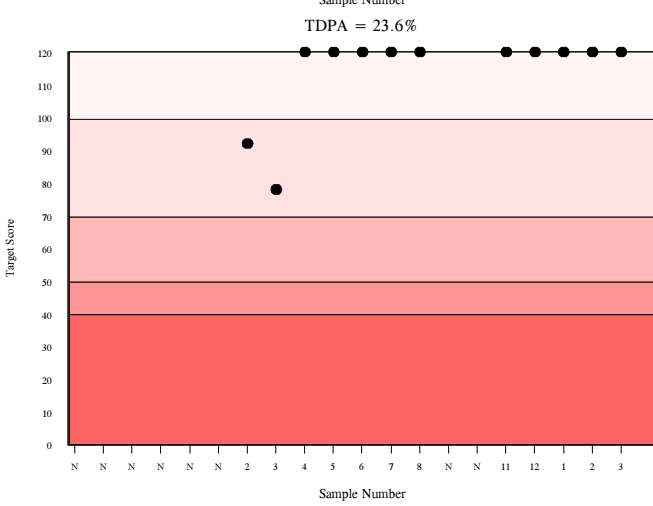
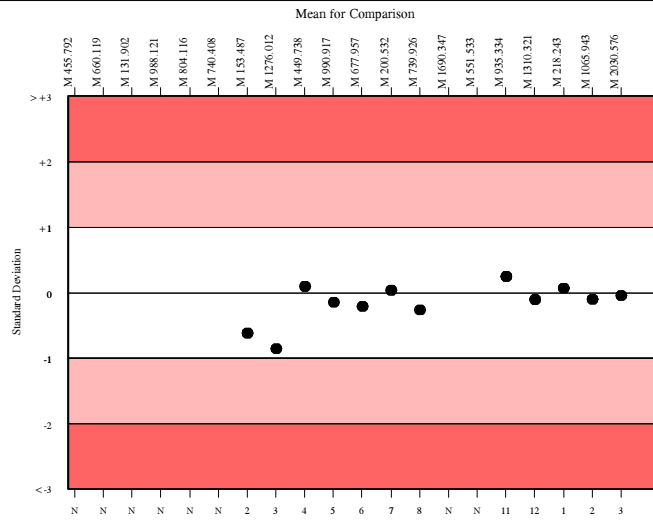
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1642	1767.295	14.1	7.67	253.57	198
Roche Cobas 4000/e411	241	2030.576	6.0	9.80	291.34	47

▲ Your Result	2017.000	SDI	-0.05
		RMSDI	-0.05
■ Mean for Comparison	2030.576	TS	120
		RMTS	120
		%DEV	-0.7
		RM%DEV	-0.6

Acceptable limits derived from Biological Variation	29.4%
Acceptable limits of performance for RIQAS	23.60%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	301	1949.707	4.1	5.81
Abbott Architect	256	1732.570	5.9	8.05
Roche Cobas 4000/e411	241	2030.576	6.0	9.80
Siemens Centaur XP/XPT/Classic	168	1425.477	7.0	9.57
Beckman DxI 600/800	144	1452.751	6.0	9.03
bioMerieux, VIDAS	59	1978.338	9.8	31.43
Beckman Access/LXi725	58	1472.362	7.3	17.58
Siemens/DPC Immulite 2000/2500	52	1604.381	7.0	19.34
Roche Elecsys/E170/Cobas 6000/8000 PRLII	43	1939.944	4.1	15.26
Abbott Architect (Re-standardised)	40	1722.905	5.3	17.93
Ortho Vitros 3600/5600/ECi	33	1471.672	4.2	13.34
Roche Elecsys	30	2006.232	5.1	23.41
Tosoh	23	1702.248	11.3	50.15
SNIBE Maglumi analysers	25	1928.536	9.4	45.14
DiaSorin, Liaison	20	1799.222	5.4	27.21
Siemens/DPC Immulite 1000	23	1733.473	8.3	37.45
Siemens Centaur CP	16	1417.979	7.9	35.14
Fujirebio Lumipulse G Series	8	1934.488	3.5	30.12
ImmunoTech IRMA	9	1815.087	5.9	44.69
DiaSorin Liaison XL	9	1792.729	5.3	39.33
Roche Modular E170	7	1932.383	2.0	18.07



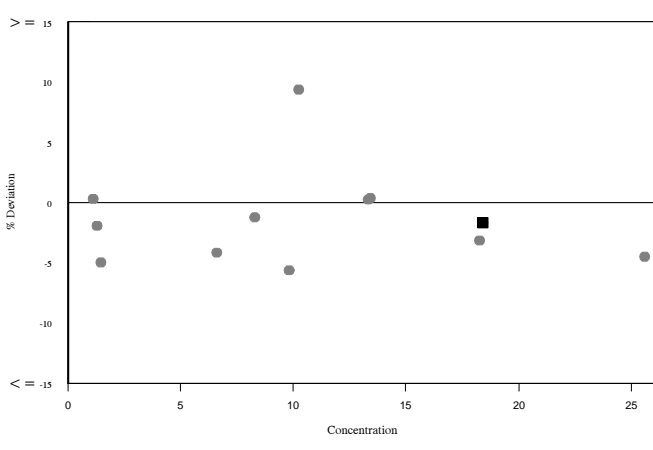
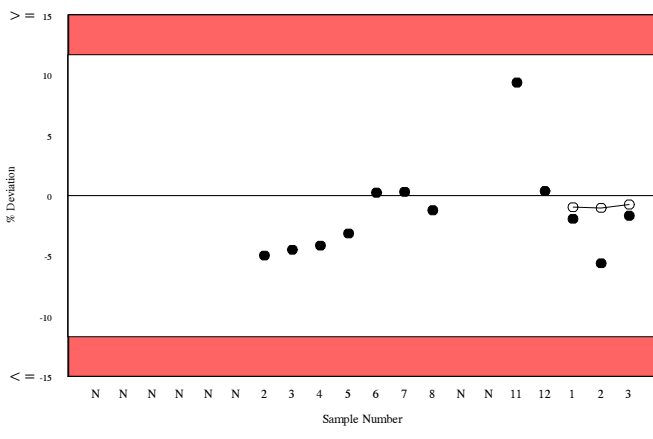
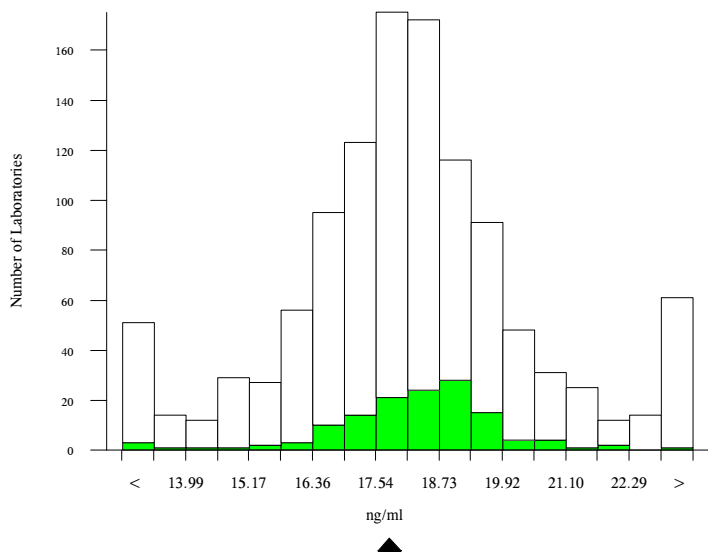
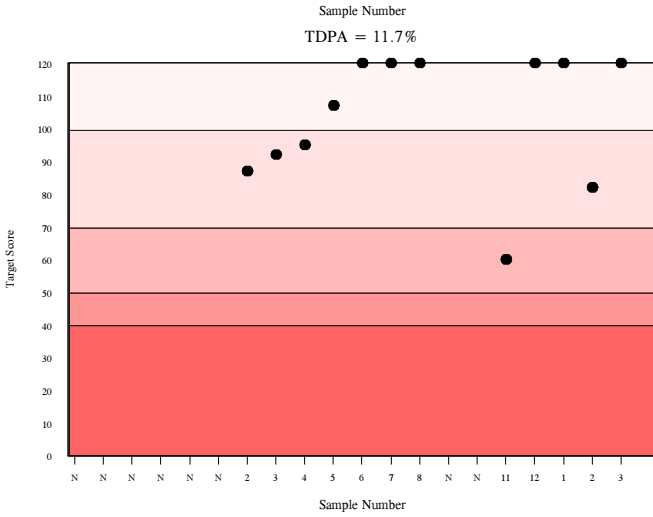
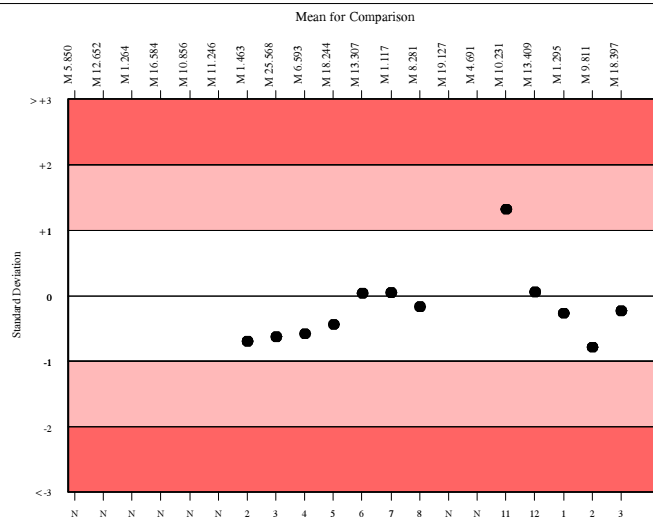
**RIQAS**

# PSA, Free, ng/ml

	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1020	18.143	8.7	0.06	1.29	181
Roche Cobas 4000/e411	123	18.397	5.8	0.12	1.31	12

▲ Your Result	18.090	SDI	-0.23
		RMSDI	-0.10
■ Mean for Comparison	18.397	TS	120
		RMTS	106
		%DEV	-1.7
		RM%DEV	-0.7

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	11.70%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	253	17.892	4.1	0.06
Abbott Architect	243	18.029	7.0	0.10
Roche Cobas 4000/e411	123	18.397	5.8	0.12
Beckman DXI standardised to Hybritech	84	21.822	9.6	0.29
Siemens Centaur XP/XPT/Classic	111	18.628	6.1	0.14
Siemens/DPC Immulite 2000/2500	36	15.143	7.2	0.23
Beckman Access standardised to Hybritech	30	21.953	9.6	0.48
BioMerieux VIDAS	23	20.827	12.6	0.68
SNIBE Maglumi analysers	23	18.148	8.5	0.40
Roche Elecsys	22	18.172	6.9	0.33
DiaSorin, Liaison	18	7.950	5.6	0.13
TOSOH	16	16.424	5.1	0.26
Siemens/DPC Immulite 1000	13	14.569	8.1	0.41
Roche Modular E170	11	18.105	3.6	0.25
Fujirebio Lumipulse G Series	10	15.164	2.3	0.14
Beckman DXI standard to WHO IRP96/670	6	18.920	14.7	1.41
DiaSorin Liaison XL	7	7.916	5.2	0.19
Ortho Vitros 3600/5600/ECi	7	16.400	2.7	0.21
Siemens Dimension	7	16.819	7.4	0.59
Ortho Vitros 3600/5600/ECi PSA II	6	16.850	3.9	0.34
CIS, RIA Coated tube	5	14.781	7.0	0.58

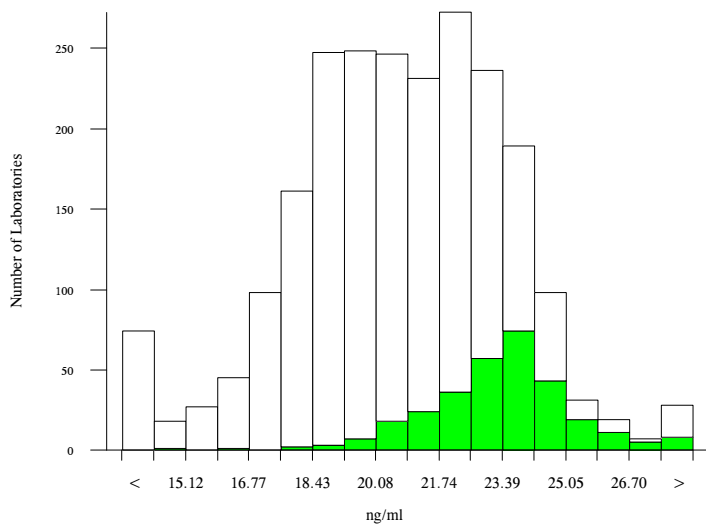


# PSA, Total, ng/ml

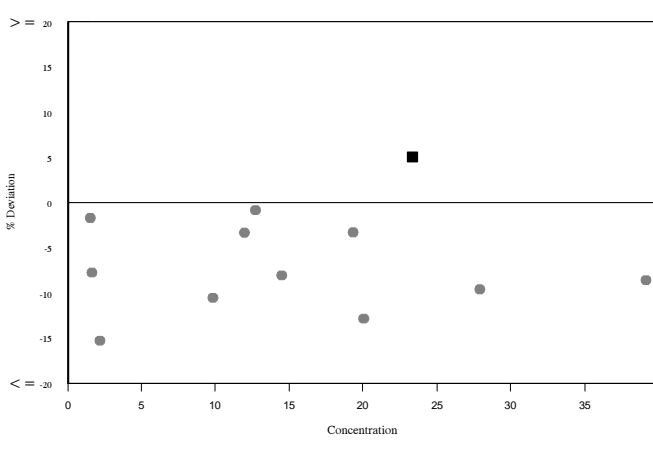
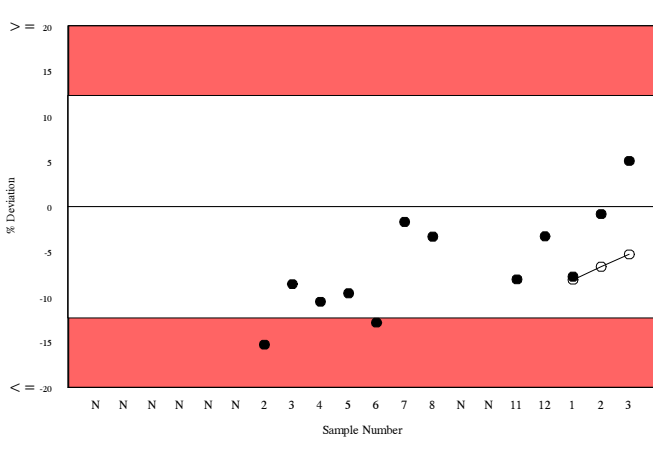
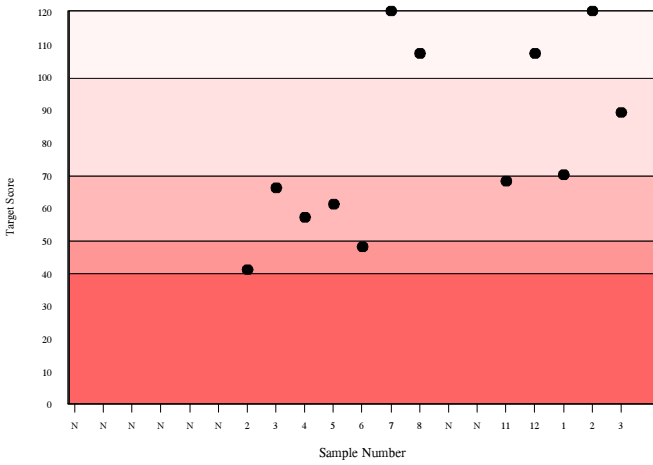
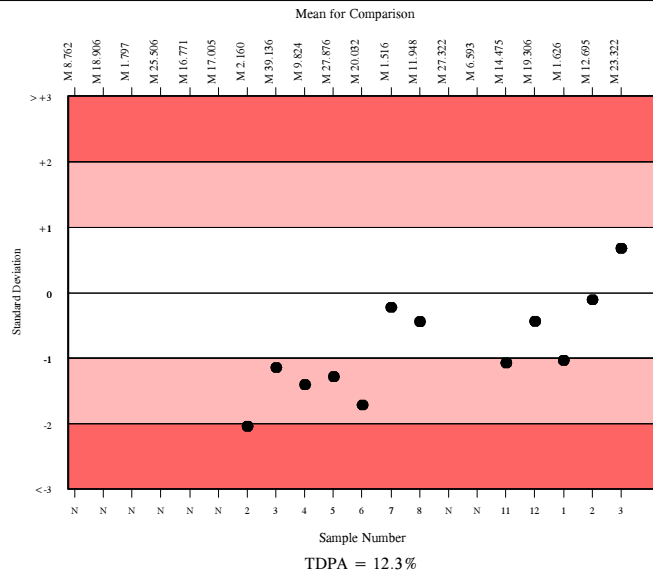
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	2111	20.915	10.6	0.06	1.56	167
Roche Cobas 4000/e411	283	23.322	6.0	0.10	1.74	26

▲ Your Result	24.500	SDI	0.68
		RMSDI	-0.71
■ Mean for Comparison	23.322	TS	89
		RMTS	84
		%DEV	5.1
		RM%DEV	-5.3

Acceptable limits derived from Biological Variation	33.6%
Acceptable limits of performance for RIQAS	12.30%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	447	22.681	4.8	0.06
Abbott Architect	418	18.982	5.9	0.07
Roche Cobas 4000/e411	283	23.322	6.0	0.10
Siemens Centaur XP/XPT/Classic	210	19.286	6.2	0.10
Beckman DXI standardised to Hybritech	167	20.530	6.2	0.12
Beckman Access standardised to Hybritech	90	20.840	5.2	0.14
Roche Elecsys	41	23.132	7.8	0.35
Siemens Immulite 2000/2500, Total PSA	40	20.419	7.5	0.30
bioMerieux, Vidas TPSA	41	21.736	10.4	0.44
Siemens Centaur CP	38	19.188	7.9	0.31
SNIBE Maglumi analysers	39	21.516	7.8	0.34
Tosoh	36	15.401	6.6	0.21
Ortho Vitros 3600/5600/ECi PSA II	33	22.109	3.1	0.15
Siemens Immulite 1000, Total PSA	26	17.536	8.7	0.38
DiaSorin, Liaison	21	9.850	6.2	0.17
Beckman DXI standard to WHO IRP96/670	21	16.626	6.5	0.29
Ortho Vitros 3600/5600/ECi	18	22.294	3.2	0.21
DiaSorin Liaison XL	18	10.462	5.3	0.16
bioMerieux, VIDAS	14	21.364	4.1	0.30
Beckman Access standard to WHO IRP96/670	15	21.117	6.1	0.42
Roche Modular E170	14	21.951	4.1	0.30

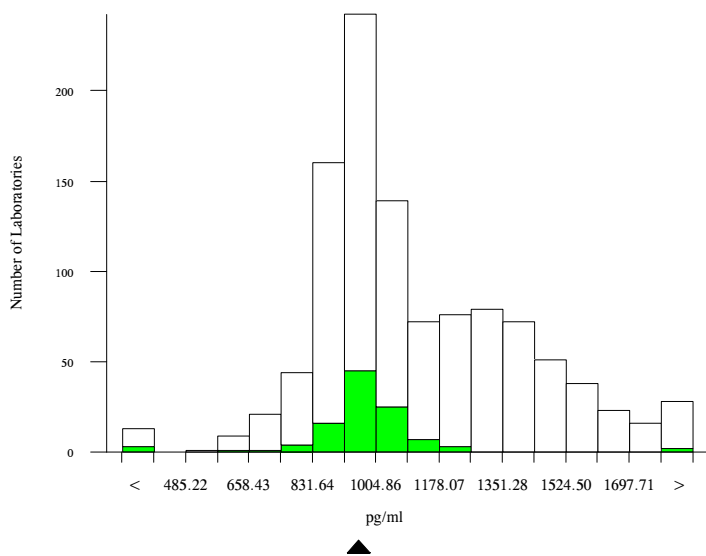


# Parathyroid hormone, pg/ml

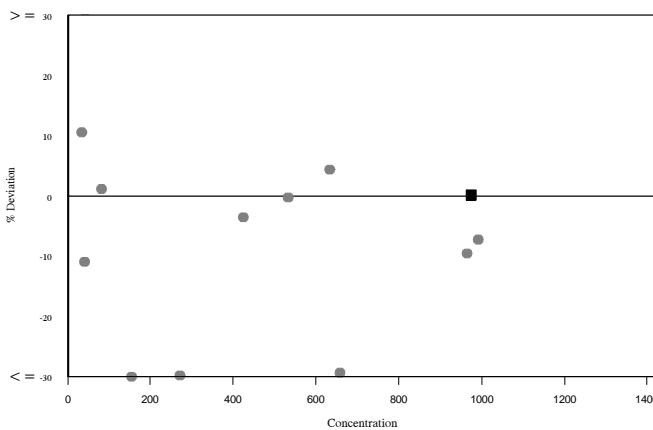
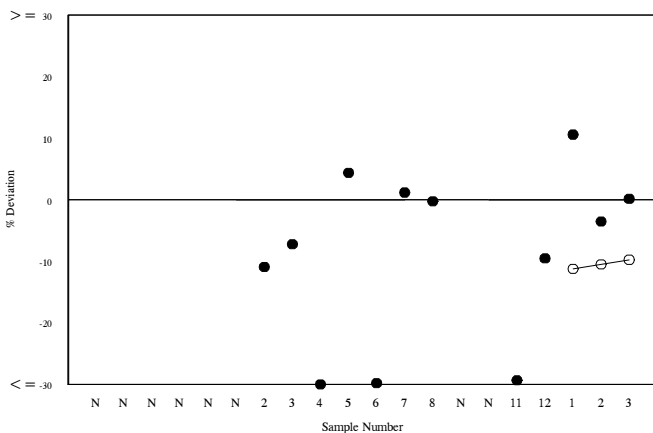
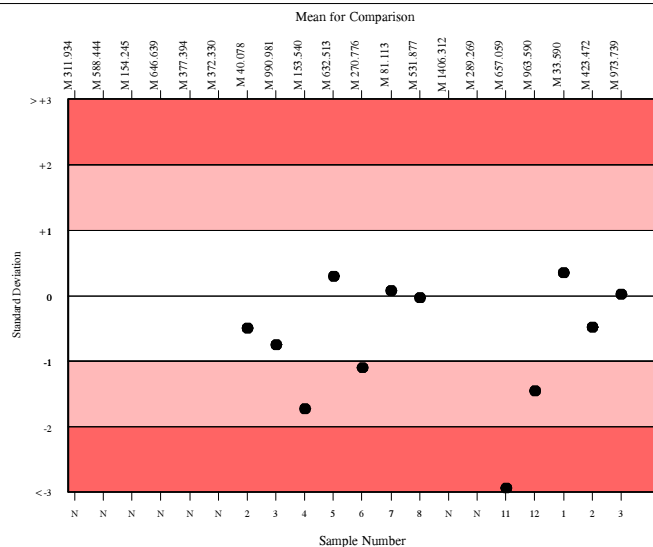
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1019	1091.469	21.2	9.04	230.95	68
Roche Cobas 4000/e411 PTH/PTH STAT	94	973.739	7.0	8.79	68.18	13

▲ Your Result	975.000	SDI	0.02
		RMSDI	-0.70
■ Mean for Comparison	973.739	TS	N/A
		RMTS	N/A
		%DEV	0.1
		RM%DEV	-9.8

Acceptable limits derived from Biological Variation	30.2%
Acceptable limits of performance for RIQAS	N/A



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000 PTH/PTH STAT	157	920.303	5.3	4.89
Abbott Architect	148	1393.223	7.5	10.76
Beckman Dxi 600/800	120	1037.981	6.7	7.95
Siemens Centaur CP/XP/XPT/Classic	99	1264.746	8.0	12.71
Roche Cobas 4000/e411 PTH/PTH STAT	94	973.739	7.0	8.79
Roche Cobas 4000/e411 PTH (1-84)	66	919.481	9.5	13.46
Roche Cobas 6000/8000 PTH (1-84)	56	907.574	8.3	12.64
Siemens/DPC Immulite 2000	48	1635.992	7.4	21.70
Beckman Access/LXi725	29	1029.351	5.7	13.61
Roche Elecsys PTH/PTH STAT	25	932.605	8.0	18.75
Tosoh	19	1053.011	9.0	27.20
DiaSorin, Liaison 1-84 PTH	16	777.300	14.5	35.23
Ortho Vitros 3600/5600/ECi	18	1257.676	4.8	17.72
SNIBE Maglumi analysers	15	1447.502	5.8	27.02
Siemens/DPC Immulite 1000	13	1712.447	12.5	74.04
CIS IRMA	11	909.992	7.1	24.37
Roche Elecsys PTH (1-84)	7	905.325	6.6	28.35
DiaSorin Liaison XL 1-84 PTH	10	742.068	11.2	32.80
Roche Modular E170 PTH/PTH STAT	7	946.639	4.8	21.45
DiaSorin, Liaison N-TACT PTH II	7	1508.000	12.3	87.42
DiaSorin Liaison XL N-TACT PTH II	6	1697.684	5.6	48.56

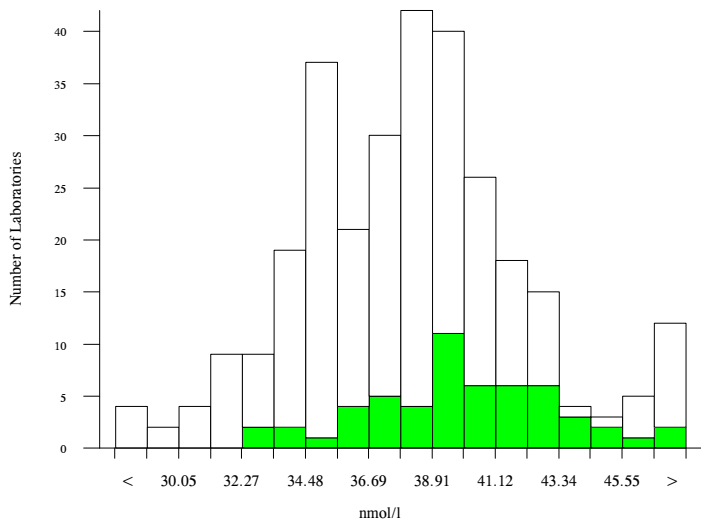


# Sex Hormone Binding Globulin, nmol/l

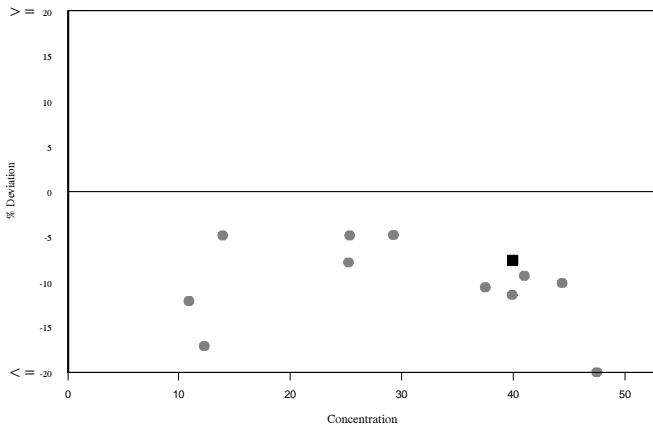
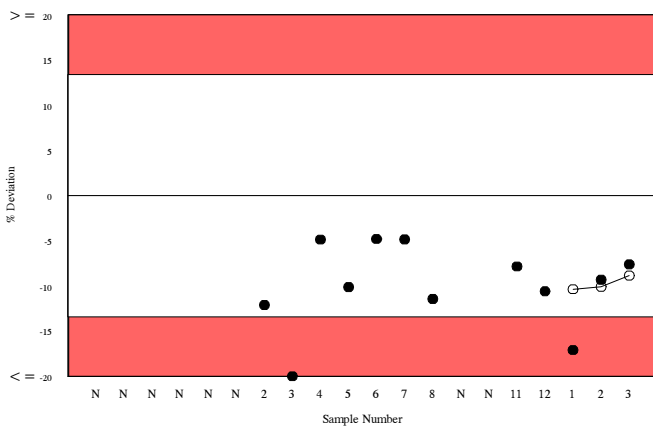
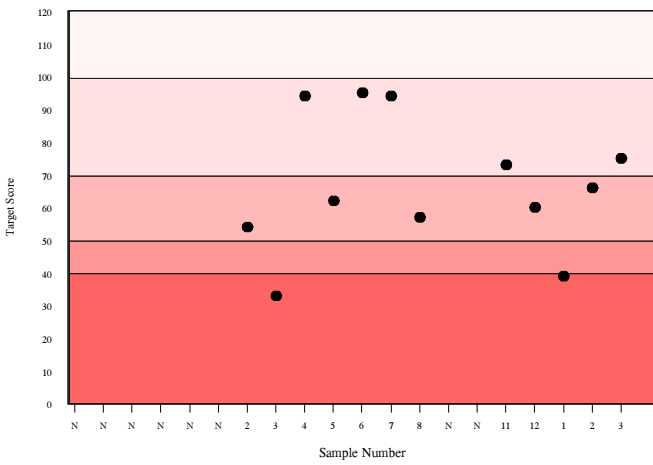
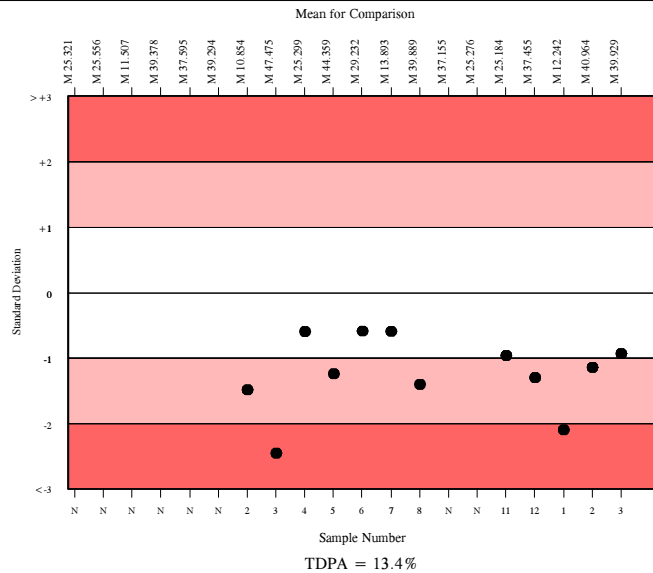
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	272	37.807	7.8	0.22	3.08	28
Roche Cobas 4000/e411	51	39.929	7.0	0.49	3.25	4

▲ Your Result	36.890	SDI RMSDI	-0.93 -1.09
■ Mean for Comparison	39.929	TS RMTS	75 71
		%DEV RM%DEV	-7.6 -8.8

Acceptable limits derived from Biological Variation	20.42%
Acceptable limits of performance for RIQAS	13.40%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	62	39.621	3.7	0.23
Roche Cobas 4000/e411	51	39.929	7.0	0.49
Abbott Architect	43	35.624	5.4	0.37
Siemens/DPC Immulite 2000/2500	43	35.916	6.1	0.42
Beckman DXI 600/800	23	36.383	7.2	0.68
Siemens Centaur (Ref 10997191)	13	37.738	6.9	0.90
Siemens Centaur (Ref 06520781)	9	48.588	15.4	3.11
Roche Modular E170	7	39.769	3.0	0.57
Siemens/DPC Immulite 1000	7	33.600	8.7	1.37
Roche Elecsys	7	38.159	10.5	1.89
Siemens Centaur CP	1	31.560	0.0	0.00
ELISA	2	31.650	7.4	2.06
Diasorin Liaison XL	2	41.850	6.3	2.31
Beckman Access	2	38.850	14.0	4.81



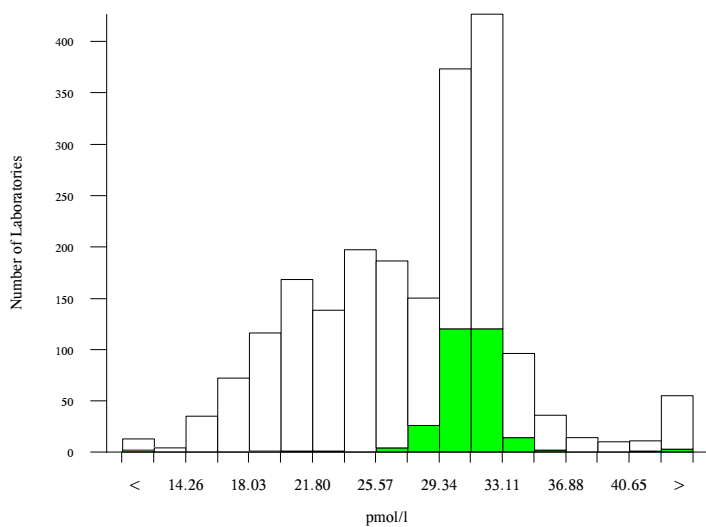
**RIQAS**  
PROFICIENCY TESTING

# Free T3, pmol/l

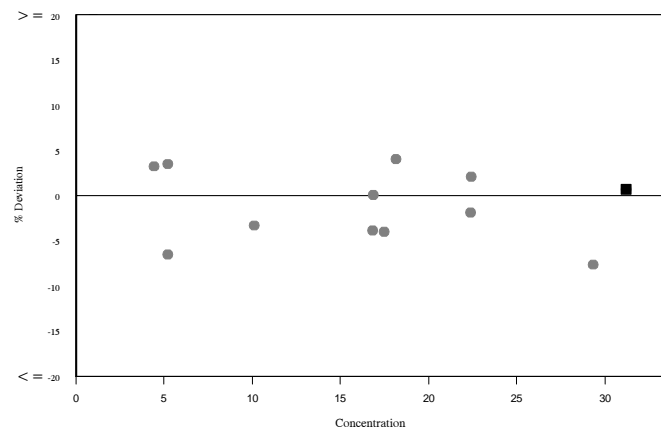
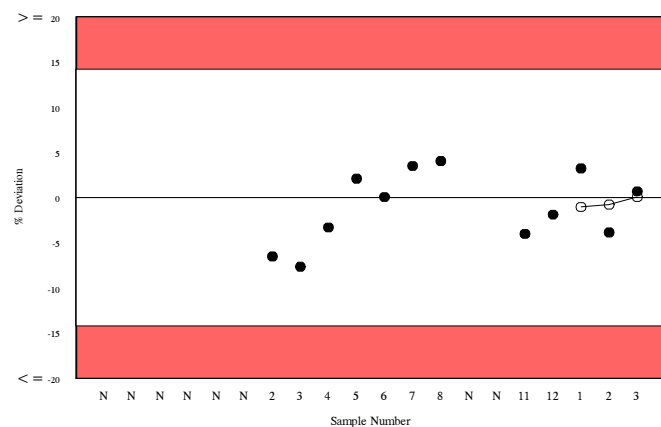
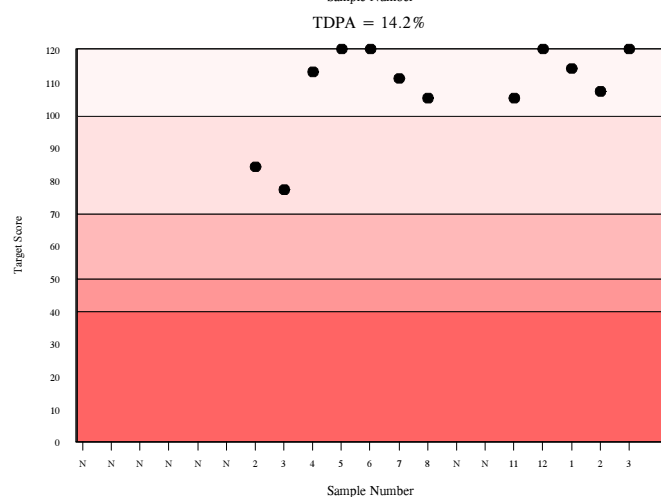
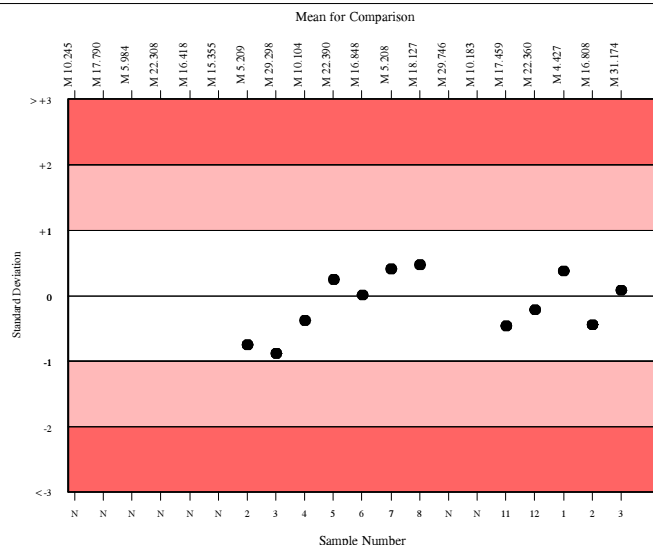
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1980	27.463	18.3	0.14	2.37	183
Roche Cobas 4000/e411	270	31.174	3.7	0.09	2.69	27

▲ Your Result	31.390	SDI RMSDI	0.08 0.01
■ Mean for Comparison	31.174	TS RMTS	120 113
		%DEV RM%DEV	0.7 0.1

Acceptable limits derived from Biological Variation	11.3%
Acceptable limits of performance for RIQAS	14.20%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	432	31.661	3.1	0.06
Abbott Architect	352	25.395	12.9	0.22
Roche Cobas 4000/e411	270	31.174	3.7	0.09
Siemens Centaur XP/XPT/Classic	216	26.125	7.1	0.16
Beckman DxI 600/800	189	19.577	6.9	0.12
Beckman Access/LXi725	81	20.907	5.3	0.15
Roche Elecsys	61	31.261	4.1	0.21
BioMerieux VIDAS	58	25.586	5.9	0.25
Ortho Vitros 3600/5600/ECi	25	35.009	0.0	0.00
Siemens Centaur CP	37	24.847	6.9	0.35
Siemens/DPC Immulite 2000/2500	38	16.751	5.6	0.19
SNIBE Maglumi analysers	31	27.496	6.4	0.40
DiaSorin, Liaison	17	44.210	4.2	0.57
Tosoh	27	40.967	20.7	2.04
Siemens/DPC Immulite 1000	21	15.992	6.4	0.28
DiaSorin Liaison XL	11	43.960	4.2	0.69
Roche Modular E170	16	31.173	3.6	0.35
Fujirebio Lumipulse G Series	10	32.849	2.2	0.28
Siemens Dimension Vista LOCI	5	36.225	0.9	0.19
Human ELISA	3	18.331	29.1	3.85
Siemens Dimension Exl LOCI	2	36.822	2.6	0.84

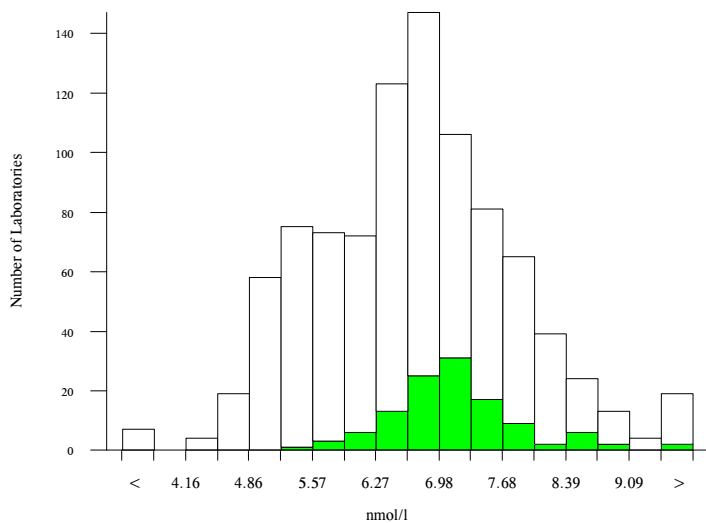


# Total T3, nmol/l

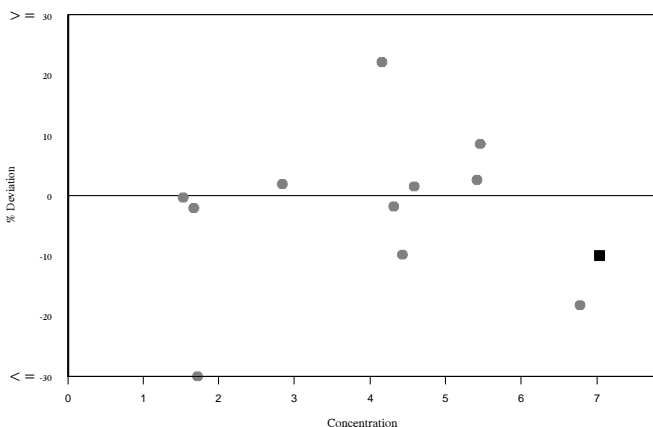
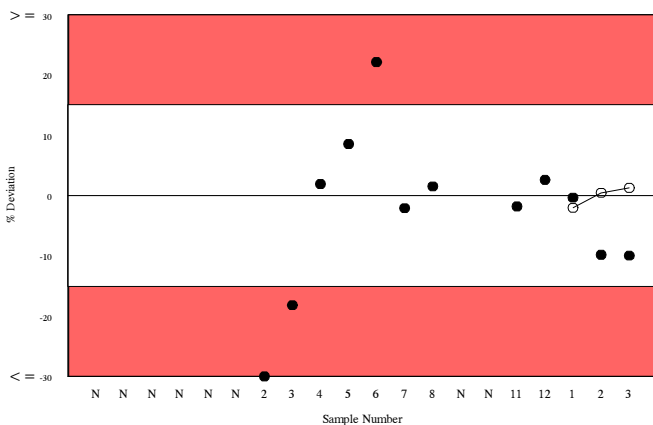
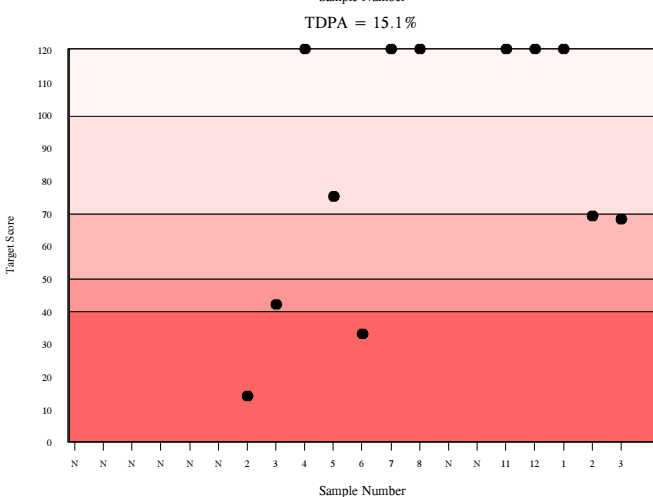
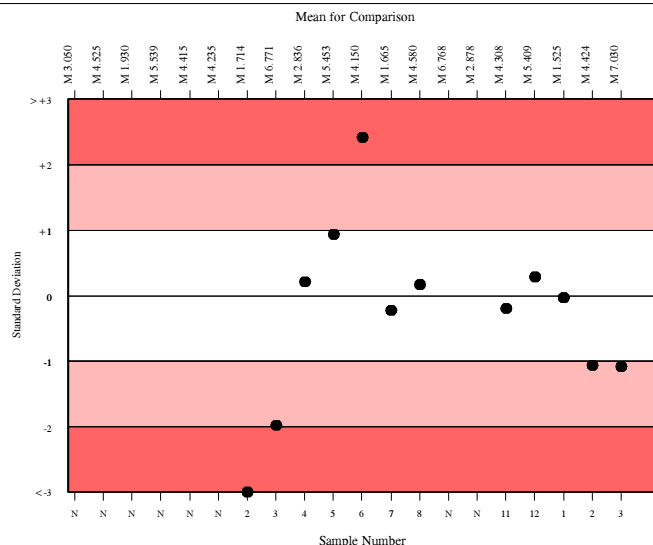
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	881	6.630	14.2	0.04	0.61	51
Roche Cobas 4000/e411	107	7.030	7.7	0.07	0.65	10

▲ Your Result	6.330	SDI	-1.08
		RMSDI	0.14
■ Mean for Comparison	7.030	TS	68
		RMTS	96
		%DEV	-10.0
		RM%DEV	1.3

Acceptable limits derived from Biological Variation	9.22%
Acceptable limits of performance for RIQAS	15.10%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	187	6.777	5.0	0.03
Abbott Architect	180	5.555	9.4	0.05
Roche Cobas 4000/e411	107	7.030	7.7	0.07
Siemens Centaur XP/XPT/Classic	85	7.766	5.9	0.06
Siemens/DPC Immulite 2000/2500	37	6.516	6.1	0.08
Ortho Vitros 3600/5600/ECi	33	7.994	6.1	0.11
Beckman Dxi 600/800	36	5.887	9.1	0.11
Beckman Access/LXi725	32	5.967	6.9	0.09
SNIBE Maglumi analysers	25	7.946	4.8	0.10
bioMerieux, VIDAS	24	6.342	7.7	0.12
Siemens Centaur CP	18	8.325	5.4	0.13
Tosoh	12	6.523	3.1	0.07
Siemens/DPC Immulite 1000	13	6.833	11.8	0.28
Roche Elecsys	10	7.016	4.0	0.11
CIS, RIA Coated tube	10	5.050	5.9	0.12
DiaSorin, Liaison	8	5.971	5.4	0.14
Immunotech RIA	7	5.311	4.6	0.12
ELISA	5	6.256	14.8	0.52
Roche Modular E170	6	6.875	4.3	0.15
DiaSorin Liaison XL	3	5.139	4.4	0.16
Fujirebio Lumipulse G Series	2	8.718	4.8	0.37



**RIQAS**

0010

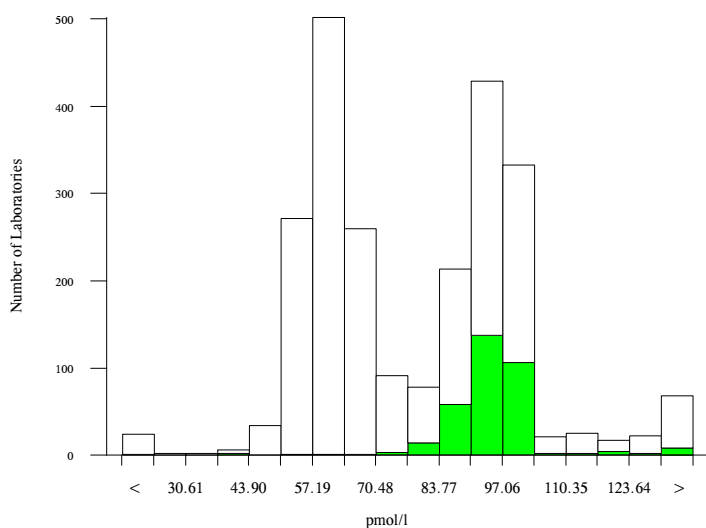


# Free T4, pmol/l

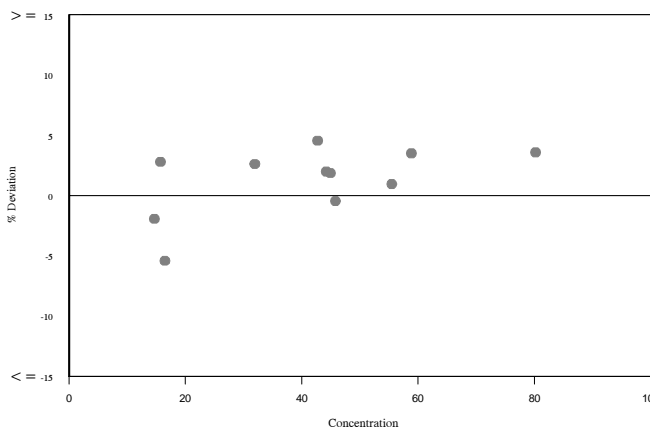
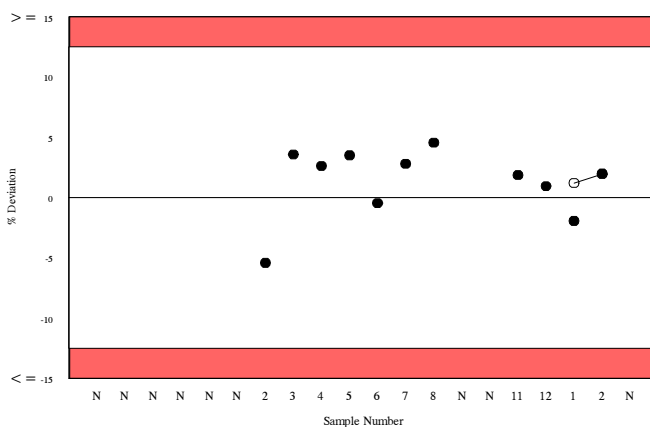
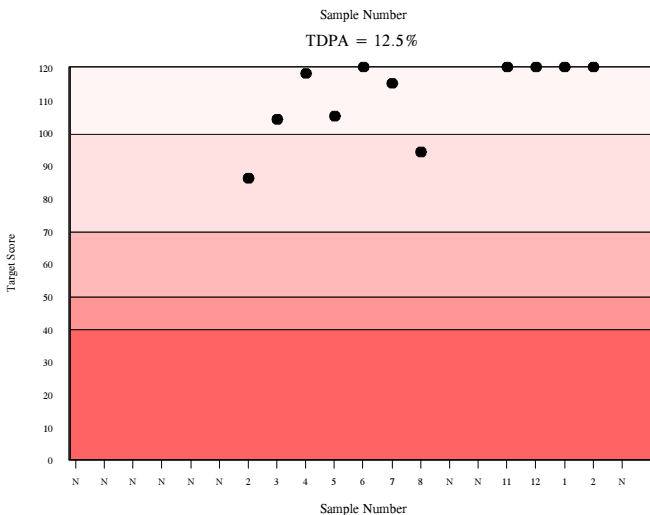
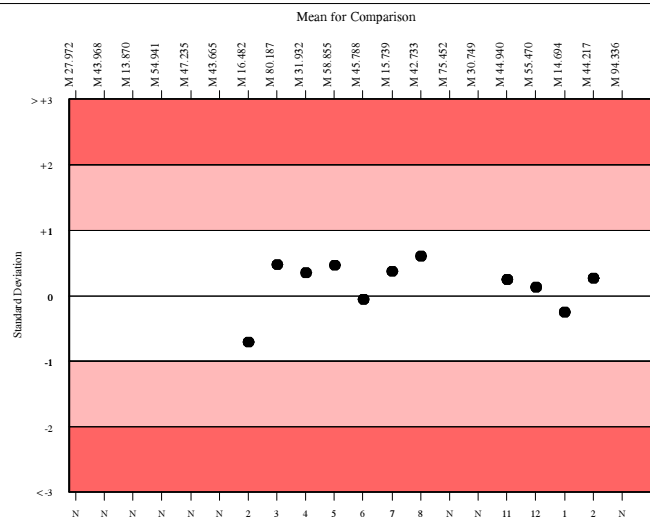
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	2259	77.129	23.0	0.47	5.86	353
Roche Cobas 4000/e411	309	94.336	5.0	0.33	7.17	59

▲ Your Result	No Result	SDI	
		RMSDI	0.26
■ Mean for Comparison	94.336	TS	
		RMTS	113
		%DEV	
		RM%DEV	1.95

Acceptable limits derived from Biological Variation	8%
Acceptable limits of performance for RIQAS	12.50%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	452	95.141	4.5	0.25
Abbott Architect	391	57.094	7.8	0.28
Roche Cobas 4000/e411	309	94.336	5.0	0.33
Siemens Centaur XP/XPT/Classic	243	61.622	7.2	0.36
Beckman DxI 600/800	225	63.642	3.4	0.18
Beckman Access/LXi725	116	59.936	6.8	0.47
Roche Elecsys	50	92.818	6.8	1.12
bioMerieux, VIDAS-FT4N Kit	55	94.234	3.5	0.55
Ortho Vitros 3600/5600/ECi	30	89.823	0.2	0.04
Siemens Centaur CP	48	69.585	6.9	0.87
Siemens/DPC Immulite 2000/2500	25	91.755	28.0	6.43
Tosoh	42	89.240	4.9	0.84
Siemens/DPC Immulite 1000	20	77.062	2.1	0.46
SNIBE Maglumi analysers	38	109.240	7.4	1.63
DiaSorin, Liaison	17	122.653	3.7	1.39
DiaSorin Liaison XL	7	130.031	3.7	2.29
Roche Modular E170	13	95.044	3.6	1.20
Fujirebio Lumipulse G Series	9	83.336	7.4	2.59
CIS, RIA Coated tube	9	62.699	9.7	2.53
Immunotech IRMA	7	64.938	5.6	1.73
ELISA	4	55.030	14.1	4.84

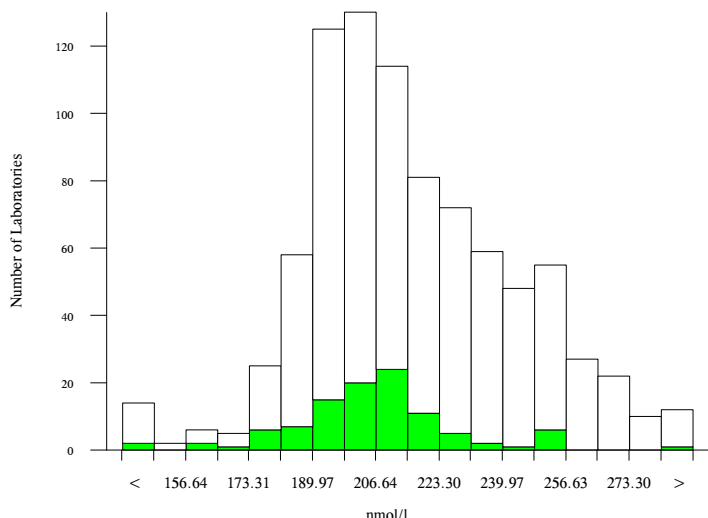


# Total T4, nmol/l

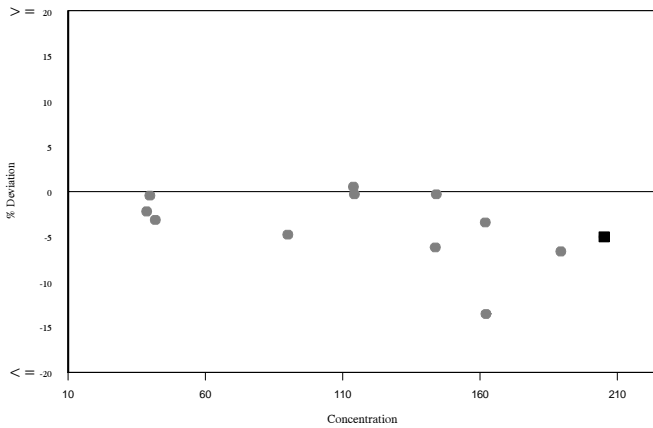
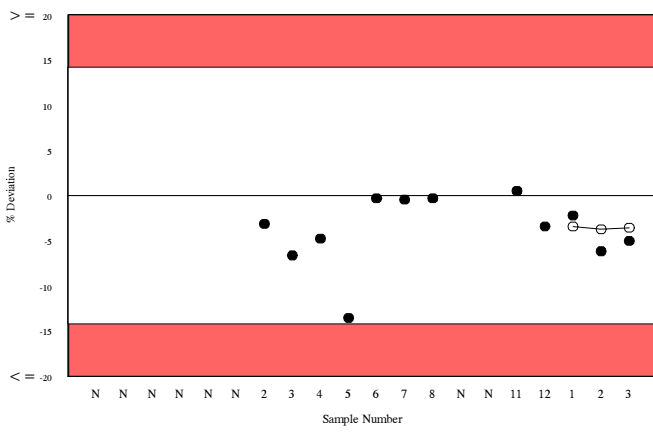
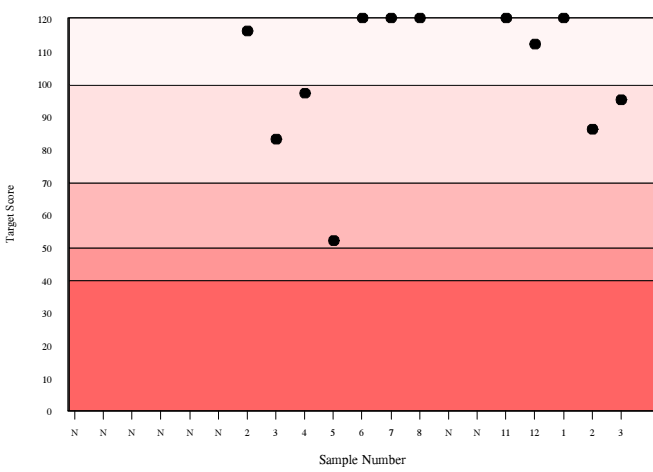
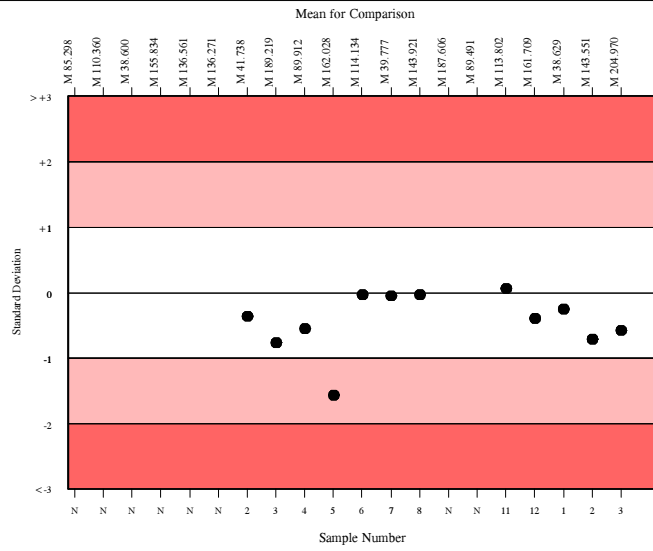
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	804	214.975	10.3	0.98	18.56	63
Roche Cobas 4000/e411	91	204.970	6.9	1.85	17.70	12

▲ Your Result	194.700	SDI	-0.58
		RMSDI	-0.41
■ Mean for Comparison	204.970	TS	95
		RMTS	104
		%DEV	-5.0
		RM%DEV	-3.6

Acceptable limits derived from Biological Variation	7%
Acceptable limits of performance for RIQAS	14.20%



Method	N	Mean	CV%	U <sub>m</sub>
Abbott Architect	166	210.615	5.9	1.20
Roche Cobas 6000/8000	166	196.277	4.0	0.76
Roche Cobas 4000/e411	91	204.970	6.9	1.85
Siemens Centaur XP/XPT/Classic	78	239.877	8.4	2.84
Siemens/DPC Immulite 2000/2500	49	215.108	7.7	2.94
Ortho Vitros 3600/5600/ECi	29	247.931	5.6	3.22
Beckman Access/LXi725	25	237.514	6.7	3.99
SNIBE Maglumi analysers	26	241.161	4.7	2.80
Beckman DxI 600/800	28	232.323	8.0	4.41
bioMerieux, VIDAS	25	251.643	4.5	2.80
Siemens Centaur CP	20	243.030	6.3	4.31
Tosoh	16	211.224	9.8	6.47
Siemens/DPC Immulite 1000	15	223.299	9.6	6.93
DiaSorin, Liaison	8	202.131	6.3	5.67
CIS, RIA Coated tube	6	269.060	5.5	7.59
Roche Elecsys	7	197.134	5.4	5.05
ELISA	6	210.829	11.1	11.92
Immunotech RIA	7	177.617	9.0	7.58
Roche Modular E170	4	193.582	2.4	2.90
DiaSorin Liaison XL	3	194.308	6.8	9.48
Fujirebio Lumipulse G Series	2	321.043	3.7	10.38

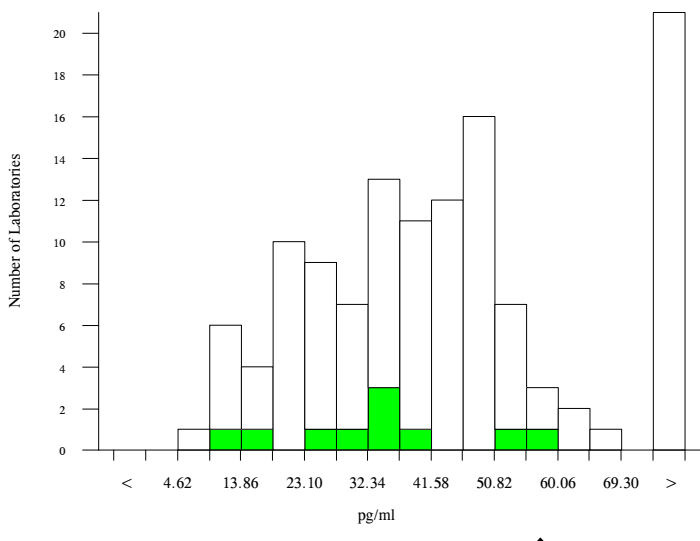


# Free Testosterone (Pilot), pg/ml

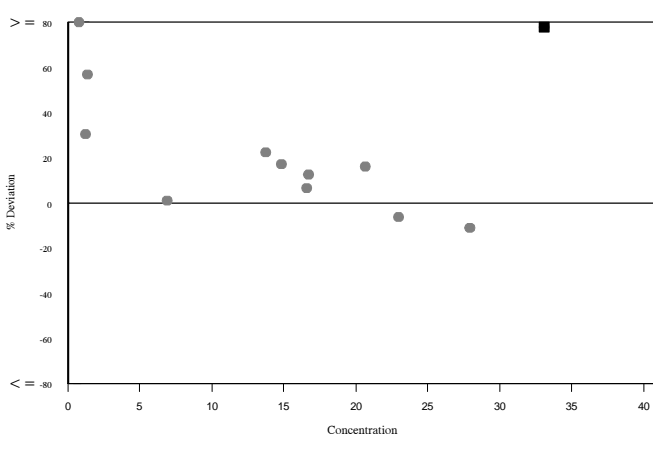
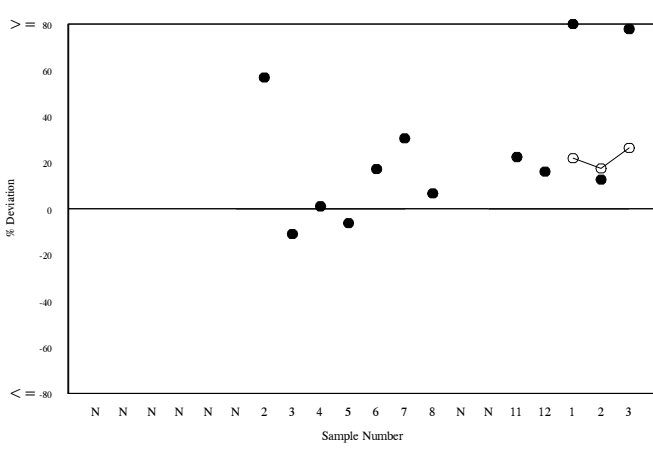
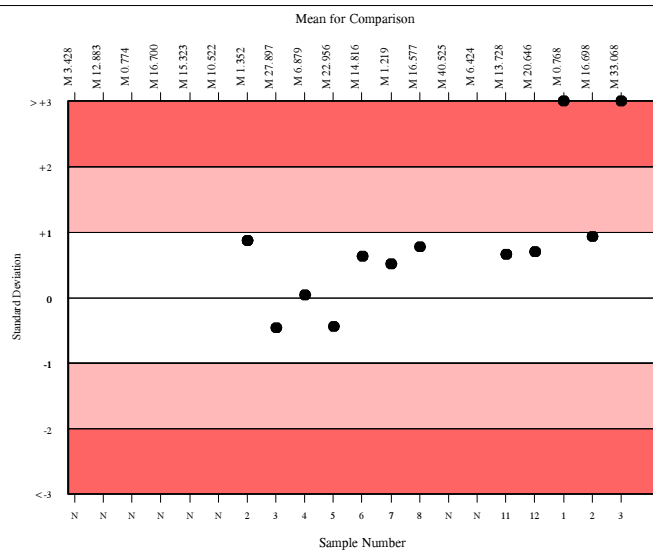
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	93	36.909	33.4	1.60	12.34	30
IBL ELISA	6	33.068	14.2	2.40	5.27a	4

▲ Your Result	58.800	SDI	4.88
		RMSDI	1.54
■ Mean for Comparison	33.068	TS	N/A
		RMTS	N/A
		%DEV	77.8
		RM%DEV	26.3

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



Method	N	Mean	CV%	U <sub>m</sub>
SNIBE Maglumi analysers	28	46.359	7.3	0.80
Monobind Inc. ELISA / CLIA	13	29.597	17.4	1.79
DRG ELISA	9	41.066	20.8	3.56
Calculated	11	224.238	12.6	10.63
IBL ELISA	6	33.068	14.2	2.40
DIAsource, RIA	6	18.575	21.8	2.07
ELISA	6	43.188	27.6	6.09
Roche Cobas 4000/e411	4	193.295	12.9	15.58
Diametra ELISA	4	34.825	17.0	3.69
Roche Cobas 6000/8000	1	28.900	0.0	0.00
DBC, ELISA	2	31.105	13.6	3.74
DSL/Beckman Coulter, RIA	3	21.277	9.1	1.40
Novatec ELISA	3	43.067	22.9	7.13
DiaSorin (RIA)	2	21.200	5.3	1.00

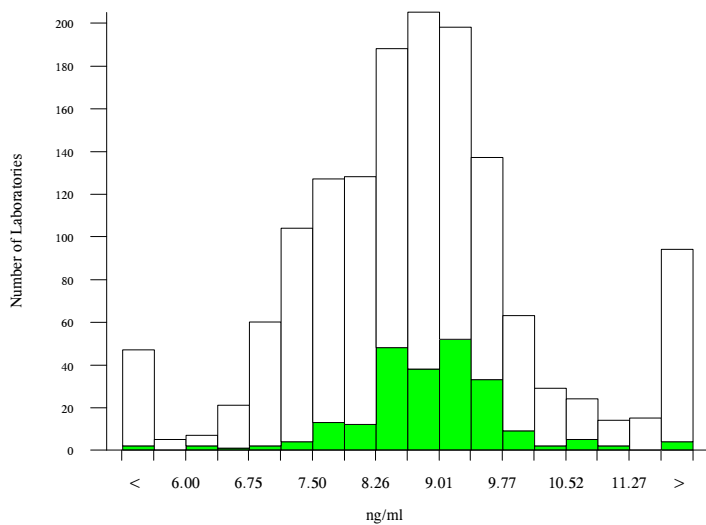


# Testosterone, ng/ml

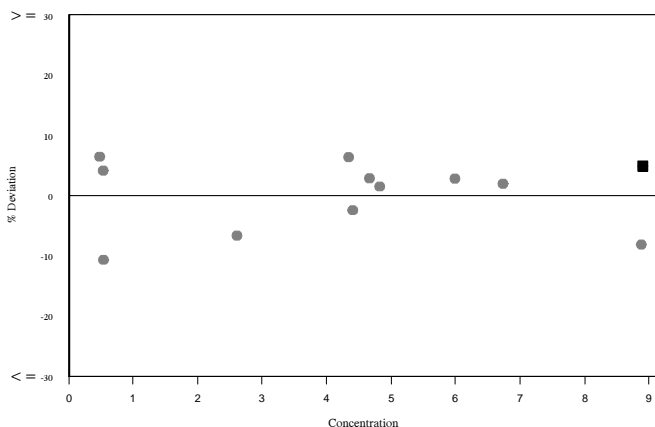
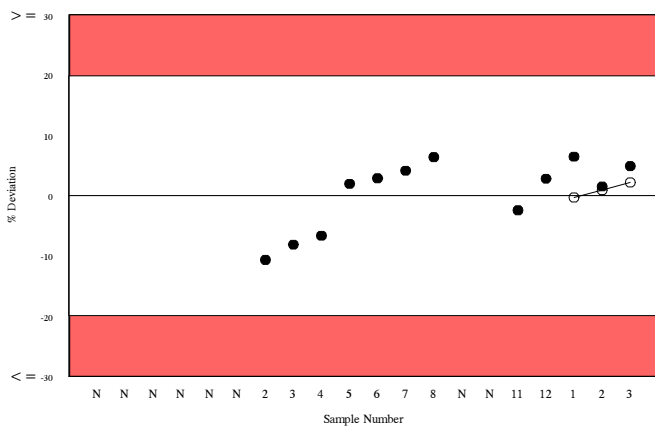
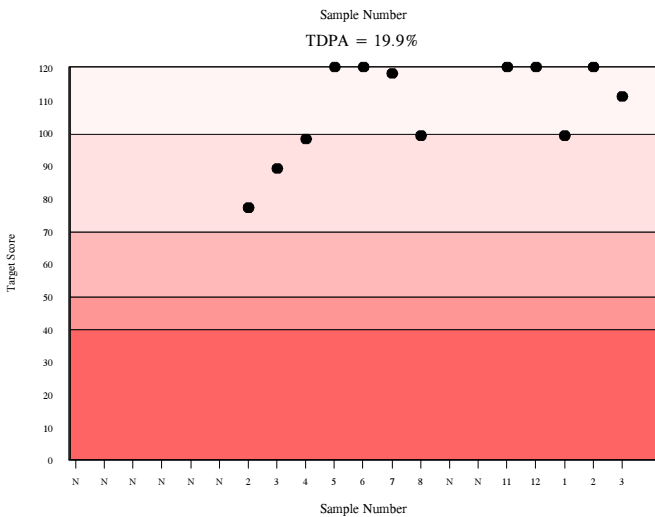
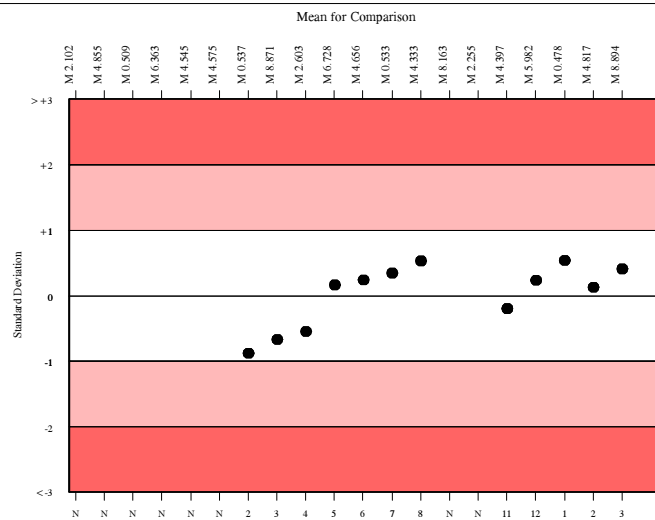
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1321	8.640	11.6	0.03	1.05	150
Roche Cobas 4000/e411 Test II	207	8.894	6.5	0.05	1.08	22

▲ Your Result	9.330	SDI	0.41
		RMSDI	0.18
■ Mean for Comparison	8.894	TS	111
		RMTS	112
		%DEV	4.9
		RM%DEV	2.2

Acceptable limits derived from Biological Variation	13.61%
Acceptable limits of performance for RIQAS	19.90%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000 Test II	285	9.057	4.8	0.03
Roche Cobas 4000/e411 Test II	207	8.894	6.5	0.05
Abbott Architect	164	8.896	6.8	0.06
Beckman DxI 600/800	134	7.542	5.2	0.04
Siemens Centaur XP/XPT/Classic TSTO	76	7.394	9.6	0.10
Abbott Architect 2nd gen	76	9.082	6.8	0.09
Siemens/DPC Immulite 2000/2500	52	11.349	7.9	0.16
Beckman Access/LXi725	41	8.183	5.1	0.08
bioMerieux VIDAS Testosterone II	39	7.436	5.5	0.08
Roche Elecsys Test II	38	8.774	5.9	0.11
Siemens Centaur XP/XPT/Classic TSTII	36	7.500	6.6	0.10
bioMerieux, VIDAS	28	7.411	6.0	0.11
Ortho Vitros 3600/5600/ECi	25	12.981	7.5	0.24
SNIBE Maglumi analysers	23	8.311	5.7	0.12
TOSOH	19	13.763	7.3	0.29
Siemens/DPC Immulite 1000	13	13.490	17.8	0.83
Roche Modular E170 Test II	11	9.090	3.1	0.11
Siemens Centaur CP	10	7.621	8.6	0.26
DiaSorin, Liaison	9	4.666	13.2	0.26
DiaSorin Liaison XL	8	4.201	7.2	0.13
CIS, RIA Coated tube	7	9.060	24.5	1.05

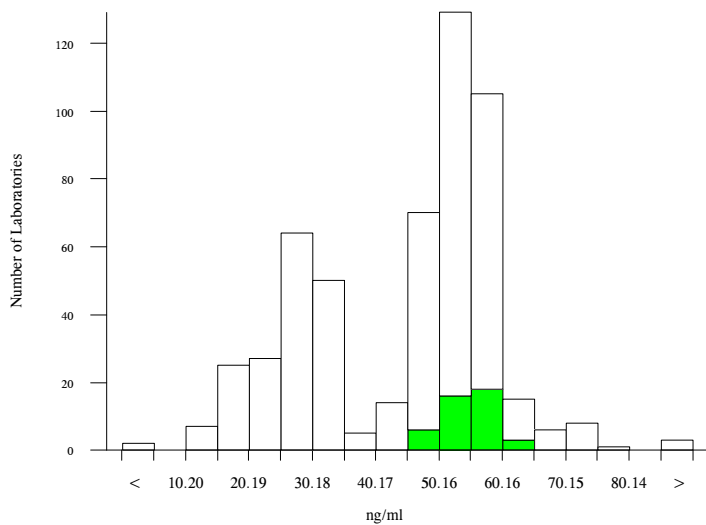


# Thyroglobulin, ng/ml

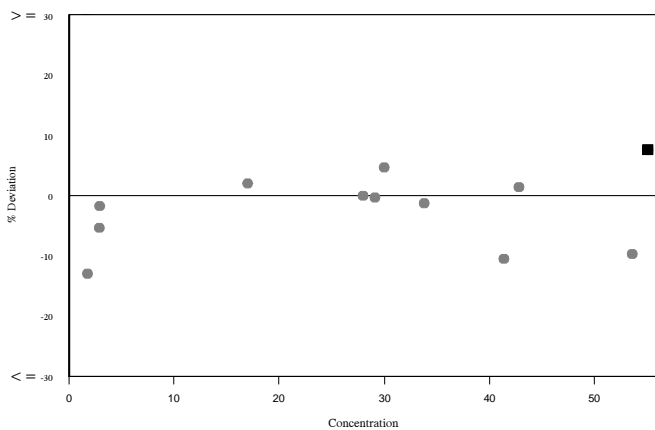
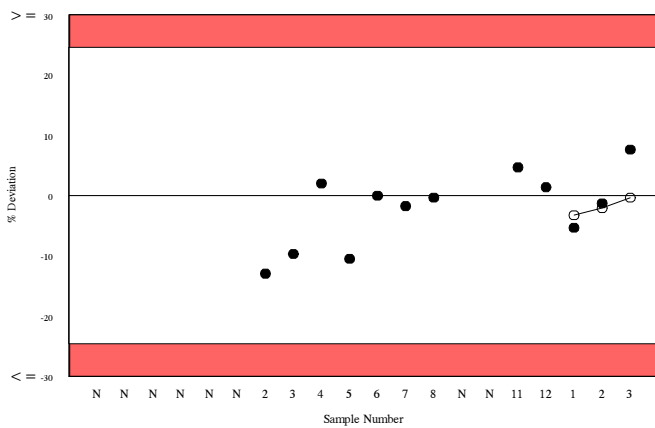
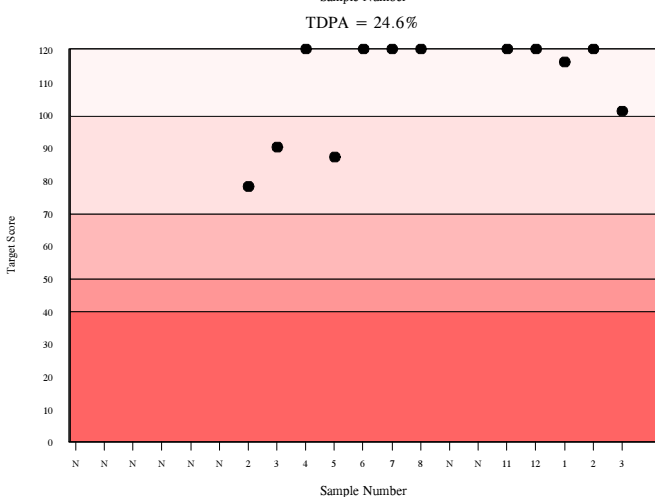
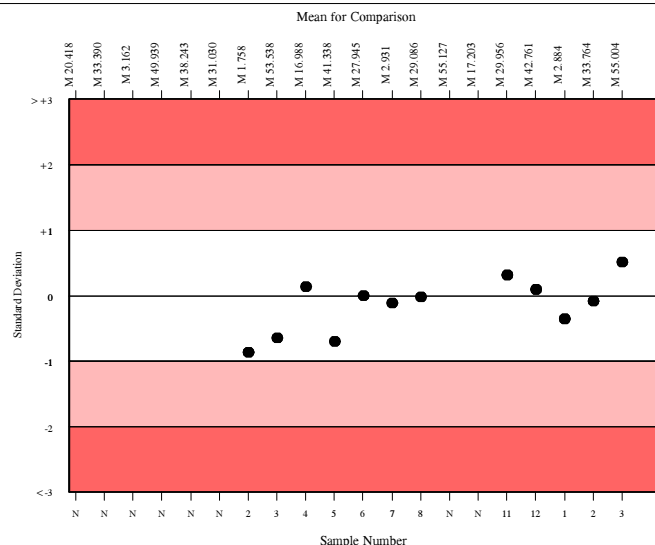
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	509	45.173	29.5	0.74	6.76	22
Roche Cobas 4000/e411 TgII	40	55.004	5.8	0.63	8.23	3

▲ Your Result	59.200	SDI	0.51
		RMSDI	-0.02
■ Mean for Comparison	55.004	TS	101
		RMTS	114
		%DEV	7.6
		RM%DEV	-0.3

Acceptable limits derived from Biological Variation	21.9%
Acceptable limits of performance for RIQAS	24.60%



Method	N	Mean	CV%	U <sub>m</sub>
DPC Immulite 2000/2500	97	29.124	7.9	0.29
Roche Cobas 6000/8000 Tg II	66	54.916	4.2	0.36
Beckman Dxi 600/800	48	47.947	5.3	0.46
Roche Cobas 6000/8000	51	54.030	5.3	0.50
Roche Cobas 4000/e411	45	55.614	6.9	0.71
Roche Cobas 4000/e411 TgII	40	55.004	5.8	0.63
DiaSorin, Liaison	16	21.572	7.3	0.49
Beckman Access	17	49.164	4.1	0.61
DPC Immulite 1000	16	28.744	23.7	2.13
SNIBE Maglumi analysers	11	18.442	5.1	0.35
Roche Elecsys	11	52.585	5.3	1.04
CIS, RIA Coated tube	11	71.971	3.0	0.81
DiaSorin Liaison XL	12	24.923	16.9	1.52
Tosoh	10	56.240	3.6	0.80
Roche Elecsys Tg II	9	55.481	6.8	1.58
Roche Modular E170 Tg II	6	55.370	5.1	1.43
Diesse Chorus	1	37.300	0.0	0.00
Roche Modular E170	4	52.338	3.7	1.22

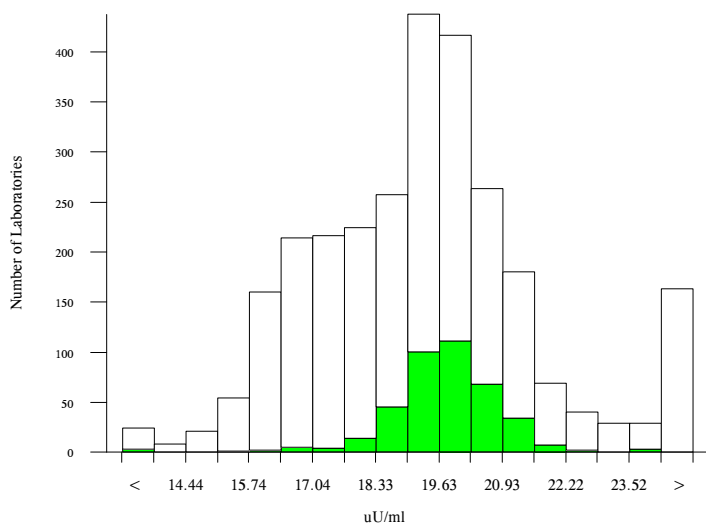


# TSH, uU/ml

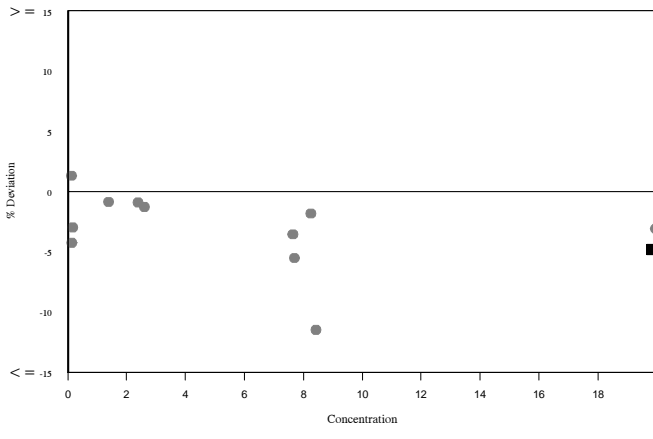
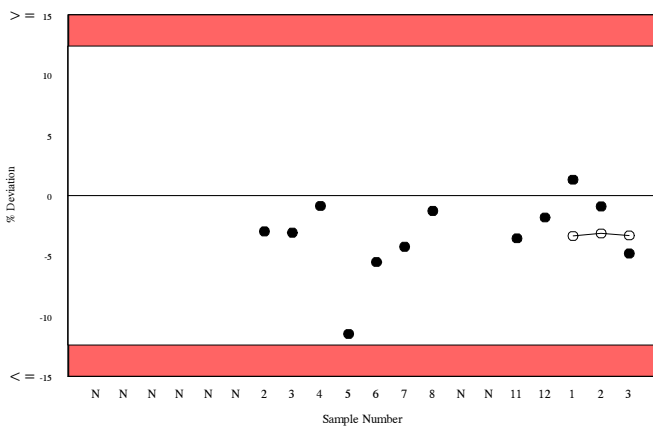
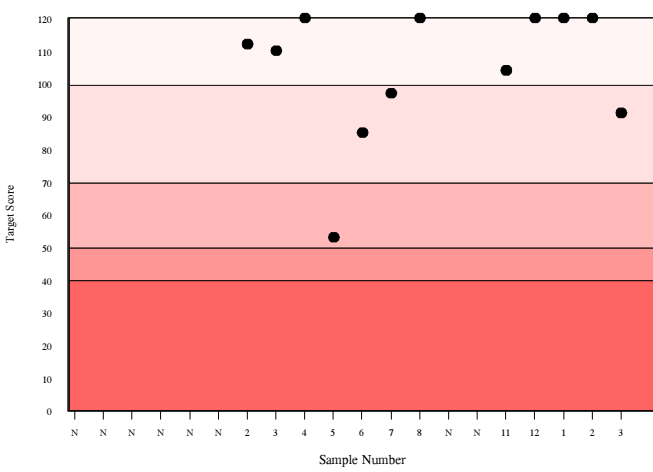
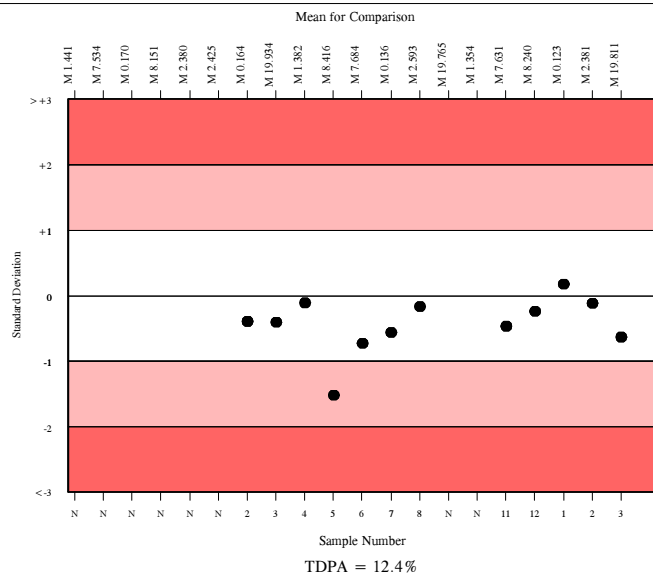
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	2570	18.986	9.1	0.04	1.43	239
Roche Cobas 4000/e411	368	19.811	3.9	0.05	1.49	33

▲ Your Result	18.860	SDI RMSDI	-0.64 -0.44
■ Mean for Comparison	19.811	TS RMTS	91 103
		%DEV RM%DEV	-4.8 -3.3

Acceptable limits derived from Biological Variation	23.7%
Acceptable limits of performance for RIQAS	12.40%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 6000/8000	552	19.537	3.0	0.03
Abbott Architect	478	16.682	4.6	0.04
Roche Cobas 4000/e411	368	19.811	3.9	0.05
Beckman DXI600/800/ Access 2 (3rd IS)	200	17.718	4.7	0.07
Siemens Centaur XP/Classic TSH3-Ultra	135	20.683	3.3	0.07
Siemens Centaur XP/XPT/Classic	99	20.819	4.6	0.12
Access/LXi725 hyper TSH 3rd gen	81	18.116	4.4	0.11
Ortho Vitros 3600/5600/ECi	68	26.864	6.7	0.27
Roche Elecsys	64	19.727	4.7	0.15
Siemens/DPC Immulite 2000/2500	66	19.304	6.1	0.18
bioMerieux, VIDAS, TSH	50	21.355	6.3	0.24
Tosoh	46	21.068	7.8	0.30
Siemens/DPC Immulite 1000	39	19.659	6.0	0.24
SNIBE Maglumi analysers	39	26.115	7.0	0.37
Beckman Dxi 600/800 Hyper TSH	41	18.261	6.4	0.23
DiaSorin, Liaison	38	23.465	7.8	0.37
Siemens Centaur CP	32	20.155	7.2	0.32
Siemens Centaur CP TSH3-Ultra	20	20.444	3.8	0.22
DiaSorin Liaison XL	18	26.139	4.9	0.38
CIS, IRMA	17	19.680	5.6	0.33
Roche Modular E170	15	19.502	3.3	0.20

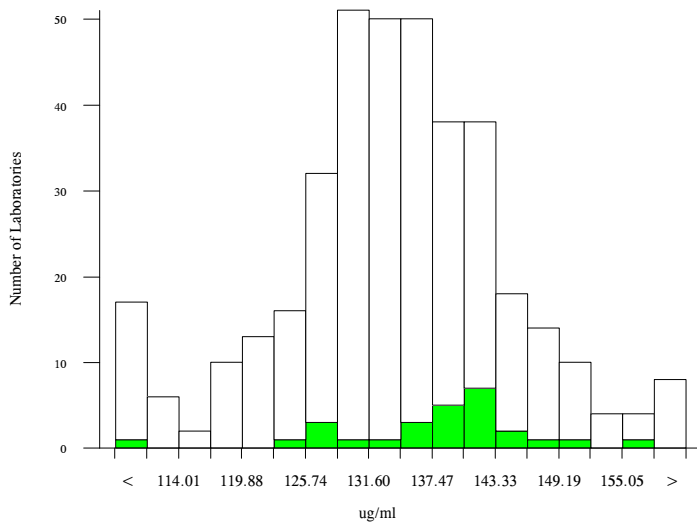


# Valproic acid, ug/ml

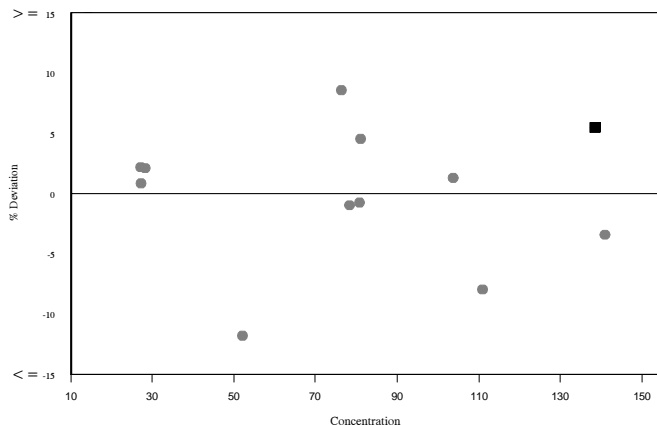
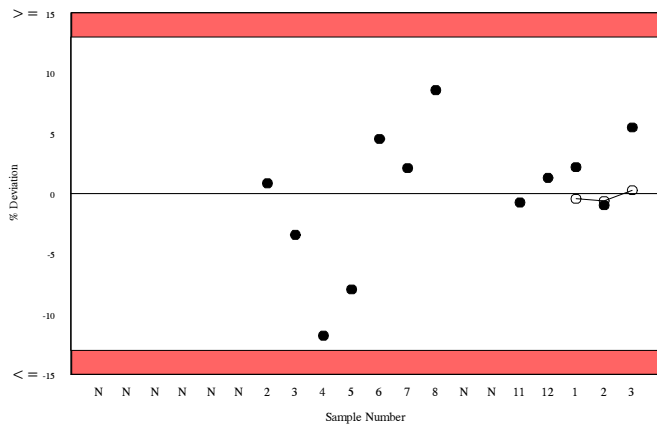
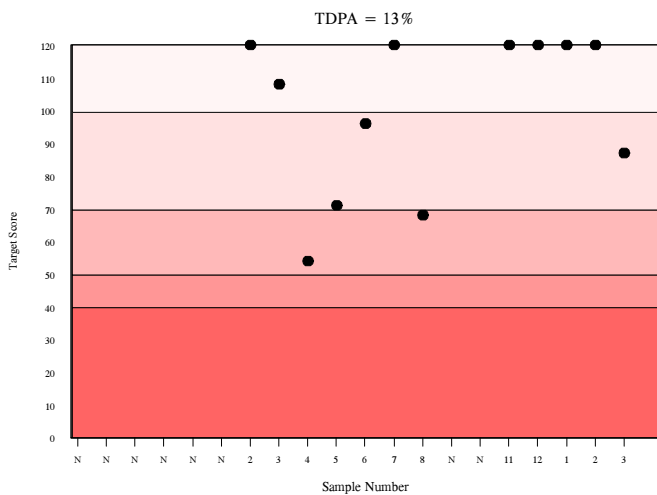
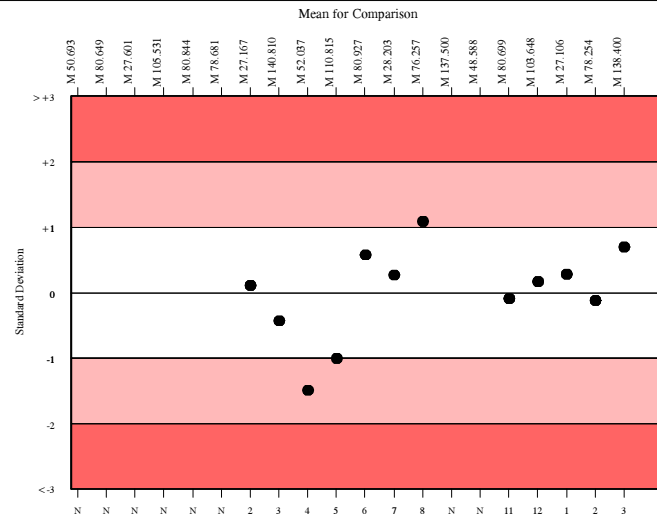
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	344	134.539	5.8	0.53	10.63	38
Siemens/DPC Immulite 2000/2500	25	138.400	4.8	1.68	10.94	2

▲ Your Result	146.000	SDI	0.69
		RMSDI	0.04
■ Mean for Comparison	138.400	TS	87
		RMTS	97
		%DEV	5.5
		RM%DEV	0.3

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	13.00%



Method	N	Mean	CV%	U <sub>m</sub>
Abbott Architect (CMIA)	97	132.259	6.0	1.01
Roche Cobas 6000/8000	64	135.660	4.3	0.91
Siemens Centaur XP/XPT/Classic	25	134.432	5.5	1.85
Siemens/DPC Immulite 2000/2500	25	138.400	4.8	1.68
Beckman AU400/600/640/2700/5400	23	146.282	3.7	1.43
Abbott Architect (PETINIA)	22	133.094	3.7	1.30
Roche Integra	18	131.796	2.7	1.06
Siemens Dimension	11	130.562	1.5	0.72
Siemens/DPC Immulite 1000	13	142.107	8.1	3.97
Ortho Vitros 4600/5600/5.1	9	131.716	7.6	4.17
Siemens Advia 1200/1650/1800/2400	9	137.188	4.5	2.56
Beckman DxC	9	119.822	3.9	1.93
Abbott AxSYM	4	132.072	5.3	4.40
Roche Cobas 4000/c311	4	137.775	5.0	4.27
Siemens Centaur CP	3	131.500	18.6	17.64
HPLC	1	119.600	0.0	0.00
Roche Modular P/D	2	134.750	3.3	3.94

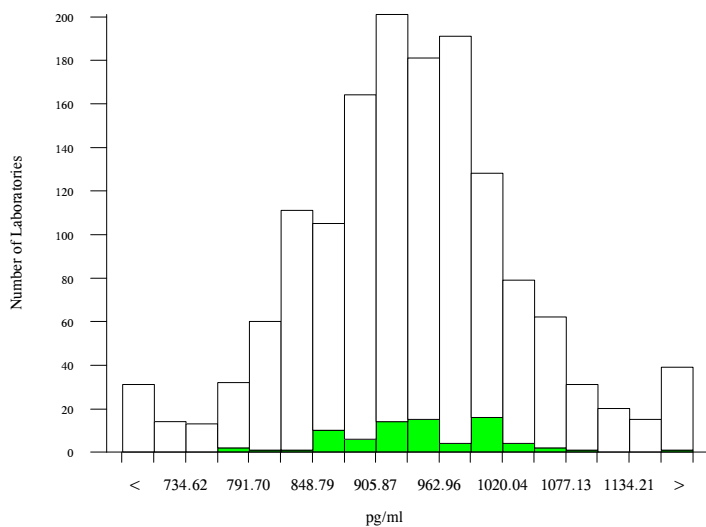


# Vitamin B12, pg/ml

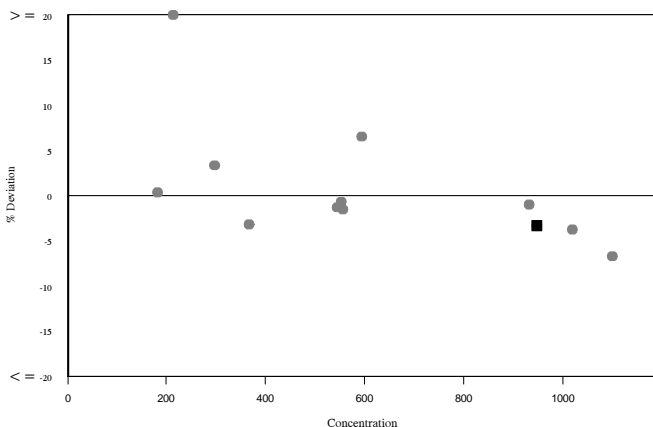
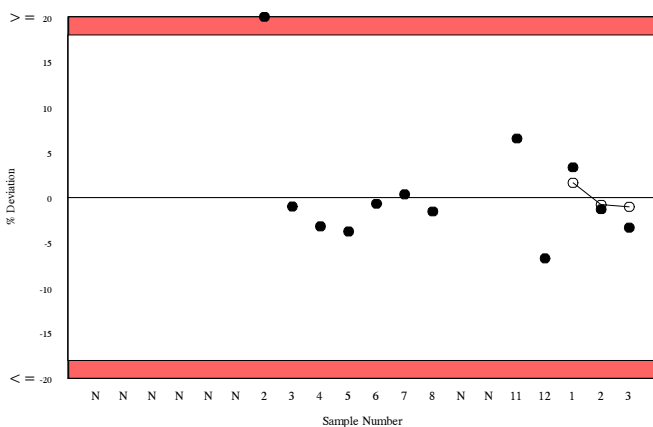
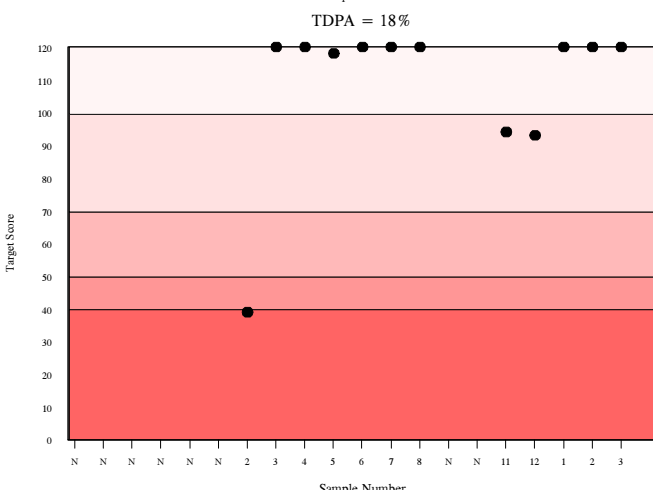
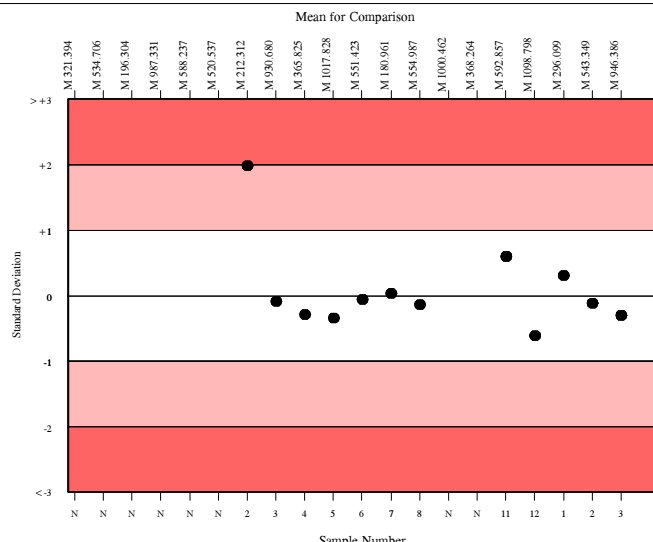
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1361	934.418	8.1	2.58	102.26	118
Roche Cobas 4000/e411 Gen II	71	946.386	5.9	8.22	103.57	6

▲ Your Result	915.000	SDI	-0.30
		RMSDI	-0.09
■ Mean for Comparison	946.386	TS	120
		RMTS	114
		%DEV	-3.3
		RM%DEV	-1.0

Acceptable limits derived from Biological Variation	30%
Acceptable limits of performance for RIQAS	18.00%



Method	N	Mean	CV%	U <sub>m</sub>
Abbott Architect	285	902.219	6.7	4.49
Roche Cobas 6000/8000 Gen II	175	977.717	4.2	3.88
Beckman Dxi 600/800	169	857.252	6.3	5.22
Siemens Centaur XP/XPT/Classic	149	1022.382	6.8	7.10
Roche Cobas 4000/e411	140	951.698	6.4	6.40
Roche Cobas 6000/8000	122	961.086	3.7	4.00
Roche Cobas 4000/e411 Gen II	71	946.386	5.9	8.22
Beckman Access/LXi725	56	881.323	7.0	10.33
Siemens/DPC Immulite 2000	33	853.628	9.9	18.37
Roche Elecsys	31	945.501	8.4	17.81
Ortho Vitros 3600/5600/ECi	32	891.048	6.0	11.76
SNIBE Maglumi analysers	17	859.053	6.9	17.92
TOSOH	16	1211.913	6.9	26.28
Siemens Centaur CP	14	1031.447	7.4	25.63
Roche Modular E170	13	964.751	6.2	20.64
Siemens Dimension	7	897.789	3.3	14.08
Siemens/DPC Immulite 1000	3	680.937	25.9	127.40
MP Biomedicals RIA	4	955.803	2.7	15.95
Roche Modular E170 Gen II	4	1001.225	4.0	24.94
Abbott AxSYM	3	905.886	0.7	4.57



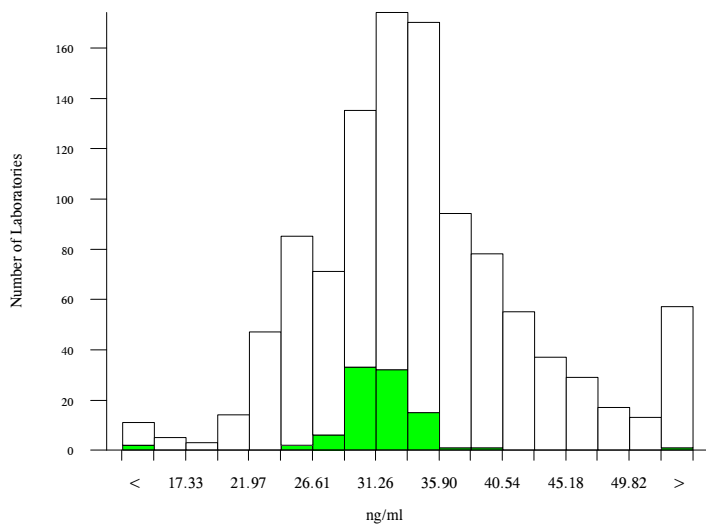


# 25-OH-Vitamin D, ng/ml

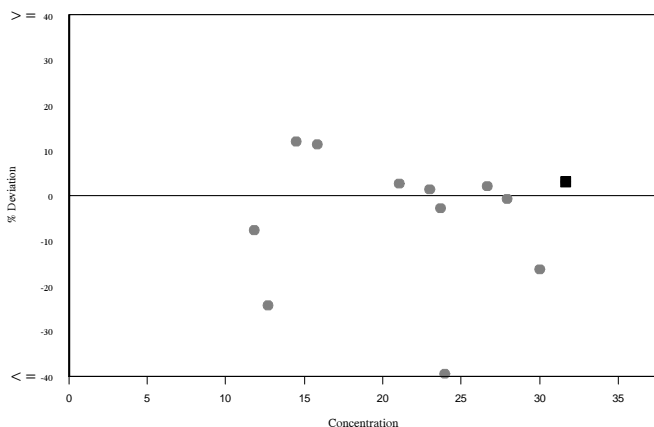
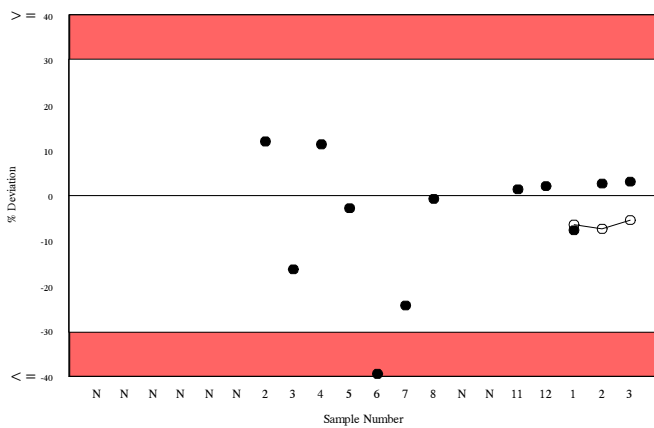
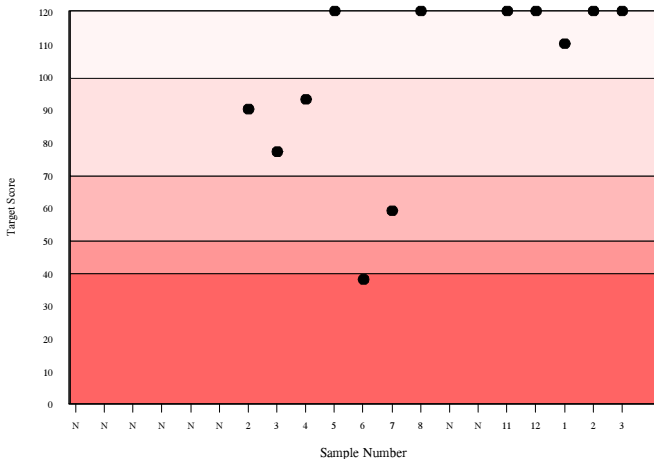
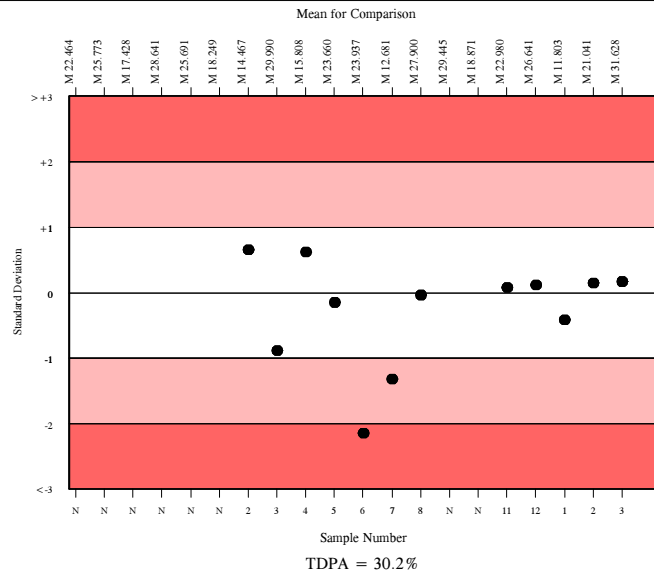
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	1011	33.581	18.4	0.24	6.17	84
bioMerieux Vidas/mini Vidas/Vidas 3	86	31.628	5.9	0.25	5.81	7

▲ Your Result	32.600	SDI	0.17
		RMSDI	-0.30
■ Mean for Comparison	31.628	TS	120
		RMTS	102
		%DEV	3.1
		RM%DEV	-5.4

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	30.20%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Vitamin D Total	302	28.307	18.0	0.37
Abbott Architect (3L52)	135	33.706	4.0	0.14
Beckman DxI 600/800	98	32.676	8.7	0.36
Siemens Centaur XP/XPT/Classic	100	50.779	12.1	0.77
bioMerieux Vidas/mini Vidas/Vidas 3	86	31.628	5.9	0.25
Abbott Architect (5P02)	60	33.867	4.0	0.22
DiaSorin, Liaison	35	39.914	7.3	0.61
Beckman Access 25 OH Vitamin D Total	31	34.359	12.2	0.94
DiaSorin Liaison XL	31	40.173	6.4	0.58
Roche Vitamin D Total II	33	37.855	13.3	1.10
Ortho Vitros 3600/5600/ECi	30	43.018	9.5	0.93
SNIBE Maglumi Analyser	20	38.503	9.4	1.01
TOSOH	11	32.668	14.2	1.75
Fujirebio Lumipulse G Series	7	37.629	1.9	0.33
IDS iSYS	8	35.511	15.1	2.36
HPLC/UPLC	5	36.952	20.4	4.21
ELISA	1	23.650	0.0	0.00
LC/MS	1	31.600	0.0	0.00
Siemens Centaur CP	1	37.400	0.0	0.00
Diesse Chorus	2	36.350	0.2	0.06
Euroimmune ELISA	2	34.548	14.5	4.44



Analyte	Mean for Comparison	Your Result	SDI	RMSDI	%DEV	RM%DEV	TS	RMTS	Performance
ACTH	146.753	80.060	<u>-2.05</u>	1.68	-45.4	41.1	N/A	N/A	
AFP	225.289	227.400	0.10	-0.40	0.9	-3.7	120	92	
Aldosterone	249.800	249.800	0.00	-0.42	0.0	-11.2	120	100	
Androstenedione	11.326	9.840	-0.88	-0.25	-13.1	-3.5	74	94	
Beta-2-Microglobulin	5.672	6.150	0.80	-0.58	8.4	-6.1	81	77	
CA 125	217.720	230.300	0.73	0.53	5.8	4.2	85	98	
CA 15-3	79.221	77.130	-0.31	0.01	-2.6	0.1	120	117	
CA 19-9	142.340	158.000	1.14	-0.16	11.0	-1.5	66	84	
CEA	47.605	47.850	0.06	-0.10	0.5	-0.8	120	103	
Cortisol	930.059	887.300	-0.51	0.05	-4.6	0.4	100	92	
C-Peptide	9.290	11.200	1.12	0.11	20.6	2.0	67	104	
DHEA-S	920.627	873.000	-0.46	-0.14	-5.2	-1.6	105	111	
Digoxin	3.596	4.900	<u>3.26</u>	-0.23	<u>36.3</u>	-3.0	<u>20</u>	79	▲
Ferritin	324.690	325.600	0.03	-0.47	0.3	-4.0	120	81	
Folate	12.385	13.120	0.50	-0.25	5.9	-3.6	102	88	
FSH	57.832	56.120	-0.38	-0.20	-3.0	-1.5	113	107	
GH	14.820	15.910	0.59	0.02	7.4	0.3	95	111	
hCG	398.140	430.100	0.95	-0.12	8.0	-1.0	74	89	
IgE	494.113	490.200	-0.09	-0.12	-0.8	-1.0	120	100	
Insulin	32.642	33.460	0.21	0.17	2.5	2.0	120	112	
LH	45.946	47.740	0.54	0.81	3.9	5.9	99	85	
Oestradiol	570.419	594.000	0.40	-0.05	4.1	-0.4	111	93	
17-OH-Progesterone	12.583	11.530	-0.65	-0.17	-8.4	-5.0	N/A	N/A	
Progesterone	28.931	29.040	0.03	0.16	0.4	1.8	120	109	
Prolactin	2030.576	2017.000	-0.05	-0.05	-0.7	-0.6	120	120	
PSA, Free	18.397	18.090	-0.23	-0.10	-1.7	-0.7	120	106	
PSA, Total	23.322	24.500	0.68	-0.71	5.1	-5.3	89	84	
Parathyroid hormone	973.739	975.000	0.02	-0.70	0.1	-9.8	N/A	N/A	
Sex Hormone Binding Globulin	39.929	36.890	-0.93	-1.09	-7.6	-8.8	75	71	
Free T3	31.174	31.390	0.08	0.01	0.7	0.1	120	113	
Total T3	7.030	6.330	-1.08	0.14	-10.0	1.3	68	96	
Free T4	94.336	No Result		0.26		2.0		113	
Total T4	204.970	194.700	-0.58	-0.41	-5.0	-3.6	95	104	
Free Testosterone (Pilot)	33.068	58.800	<u>4.88</u>	1.54	77.8	26.3	N/A	N/A	
Testosterone	8.894	9.330	0.41	0.18	4.9	2.2	111	112	
Thyroglobulin	55.004	59.200	0.51	-0.02	7.6	-0.3	101	114	
TSH	19.811	18.860	-0.64	-0.44	-4.8	-3.3	91	103	
Valproic acid	138.400	146.000	0.69	0.04	5.5	0.3	87	97	
Vitamin B12	946.386	915.000	-0.30	-0.09	-3.3	-1.0	120	114	
25-OH-Vitamin D	31.628	32.600	0.17	-0.30	3.1	-5.4	120	102	

ORMSDI -0.05

ORM%DEV 0.1

ORMTS 99

END OF REPORT