MEDICAL LABORATORY
EVALUATION

PARTICIPANT SUMMARY

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Chemistry
2021 MLE-M2

ACP | Medical Laboratory Evaluation

Total Commitment to Education and Service
Provided by ACP, Inc.

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EVALUATION CRITERIA

For quantitative procedures, a mean and standard deviation (SD) are calculated for each peer group. Acceptable performance is established on a target value mean ± the limits listed below.

Acetaminophen	± 15% or 2.5 µg/mL *	Lactate (Lactic Acid)	± 0.4 mmol/L or 3 SD *
Acetone	80% Consensus	LDL Cholesterol	± 2 SD or 30% *
Albumin	± 10%	Lipase	± 30%
Alcohol	± 25%	LH	± 2 SD or 20% *
Alpha-fetoprotein	± 3 SD	Lithium	± 0.3 mmol/L or 20% *
Alkaline Phosphatase	± 30%	Magnesium	± 25%
ALT (SGPT)	± 20%	Myoglobin	± 2 SD or 30% *
Ammonia	± 5% or 10 µmol/L *	NT-proBNP	± 2 SD or 25% *
Amylase	± 30%	Parathyroid Hormone, Intact	± 30% or 2 SD *
AST (SGOT)	± 20%	Phenobarbital	± 20%
B-Type Natriuretic Peptide (BNP)	± 2 SD or 25% *	Phenytoin	± 25%
Beta-2 Microglobulin	± 3 SD	Phosphorus	± 0.3 mg/dL or 10 % *
Bilirubin, Direct	± 2 SD	Potassium	± 0.5 mmol/L
Bilirubin, Total	± 0.4 mg/dL or 20% *	Prealbumin	± 25%
Bilirubin, Neonatal (Total)	± 0.4 mg/dL or 20% *	Progesterone	± 25%
Blood Lead	± 4 µg/dL or ± 10%*	Prolactin	± 20%
C-Peptide	± 2 SD	Protein, Total (Serum)	± 10%
CA 125	± 2 SD or 20% *	Protein, Total (Urine)	± 44%
CA 15-3	± 2 SD or 30% *	PSA	± 0.9 ng/mL or 30% *
CA 19-9	± 2 SD or 30% *	PSA, Free	± 0.9 ng/mL or 30% *
CA 27/29	± 2 SD or 30% *	pCO_2	± 5 mmHg or 8% *
Calcium	± 1.0 mg/dL	pH	± 0.04
Calcium, Ionized	± 3 SD	pO2	± 3 SD
Carbamazepine	± 25%	Salicylate	± 25%
CEA	± 1.2 ng/mL 20%	SHBG	± 3 SD
Chloride	± 5%	Sodium	± 4.0 mmol/L
Cholesterol, Total	± 10%	T_3 Uptake (% Uptake)	± 3 SD
CK-MB (Quantitative)	± 3 SD	T3, Free	± 3 SD
CO_2	± 20%	T4, Free	± 3 SD
Cortisol	± 25%	tCO_2	± 20%
Creatine Kinase	± 30%	Testosterone	± 30% or 20 ng/dL *
Creatinine (Serum)	± 0.3 mg/dL or 15% *	Testosterone, Bioavailable	± 3 SD
Creatinine (Urine)	± 17%	Testosterone, Free	± 2 SD
D-Dimer	± 2 SD or 30% *	Theophylline	± 25%
DHEA-S	± 30% or 2 SD *	Thyroglobulin	± 2 SD
Digoxin	± 0.2 mg/dL or 20% *	Thyroglobulin Antibody	± 3 SD
Estradiol	± 30% or 2 SD *	Thyroid Peroxidase Antibody (TPO)	± 3 SD
Ferritin	± 20%	Thyroxine, Total T_4	± 1.0 µg/dL or 20% *
Folate	± 1.0 ng/mL or 30%*	TIBC	± 2 SD or 20% *
FSH	± 18% or 2 SD *	Transferrin	± 10%
Gentamicin	± 25% or 1.0 µg/mL *	Triglyceride	± 25%
GGT	± 2 SD or 15% *	Triiodothyronine, Total T_3	± 3 SD
Glucose, Serum	± 6 mg/dL or 10% *	Troponin I	± 2 SD or 30% *
Glucose, Whole Blood	± 6 mg/dL or 20% *	Troponin T	± 2 SD or 30% *
Glycohemoglobin	± 5%	TSH	± 3 SD
HDL Cholesterol	± 30%	UIBC	± 2 SD or 20% *
HCG, Serum—Qualitative	80% Consensus	Urea Nitrogen	± 2.0 mg/dL or 9% *
HCG, Serum—Quantitative	± 18% or 2 SD *	Uric Acid	± 17%
Hematocrit	± 6%	Urine Drug Screen	80% Consensus
Hemoglobin	± 7%	Valproic Acid	± 25%
Homocysteine	± 30%	Vancomycin	± 25% or 1.0 µg/mL *
Insulin	± 2 SD	Vitamin B_{12}	± 25%
Iron	± 20%	Vitamin D	± 2 SD
Lactate Dehydrogenase	± 20%		

*Whichever is greater

Sodium (mmol/L)

| | Specimen IST-6 | | | | | | Specimen IST- 7 | | | | | |
Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	105	124.0	0.4	0.4	124	119 - 128	107	159.9	0.8	0.5	160	155 - 164
All i-STAT Instruments	105	124.0	0.4	0.4	124	119 - 128	107	159.9	0.8	0.5	160	155 - 164
i-STAT - moderate	89	124.0	0.4	0.3	124	119 - 128	91	159.9	0.7	0.4	160	155 - 164 -
i-STAT - waived	17	124.2	0.7	0.6	124	120 - 129	16	160.3	0.9	0.5	160	156 - 165

	Specimen IST-8						Specimen IST-9					
All Method	102	138.4	0.6	0.4	138	134 - 143	103	123.9	0.4	0.3	124	119 - 128
All i-STAT Instruments	102	138.4	0.6	0.4	138	134 - 143	103	123.9	0.4	0.3	124	119 - 128
i-STAT - moderate	87	138.3	0.5	0.3	138	134 - 143	90	123.9	0.4	0.3	124	119 - 128
i-STAT - waived	13	138.6	1.0	0.7	138	134 - 143	13	124.1	0.6	0.5	124	120 - 129

	Specimen IST-10					
All Method	103	159.9	0.8	0.5	160	155 - 164
All i-STAT Instruments	103	159.9	0.8	0.5	160	155 - 164
i-STAT - moderate	90	159.8	0.8	0.5	160	155 - 164
i-STAT - waived	13	160.3	1.0	0.6	160	156 - 165

Potassium (mmol/L)

| | Specimen IST-6 | | | | | | Specimen IST-7 | | | | | |
Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	97	2.70	0.01	0.0	2.7	2.2 - 3.2	108	6.51	0.07	1.1	6.5	6.0 - 7.1
All i-STAT Instruments	97	2.70	0.01	0.0	2.7	2.2 - 3.2	108	6.51	0.07	1.1	6.5	6.0 - 7.1
i-STAT - moderate	91	2.71	0.03	1.2	2.7	2.2 - 3.3	91	6.51	0.06	1.0	6.5	6.0 - 7.1
i-STAT - waived	16	2.70	0.01	0.0	2.7	2.2 - 3.2	16	6.55	0.08	1.2	6.5	6.0 - 7.1

	Specimen IST-8						Specimen IST-9					
All Method	103	3.79	0.04	1.0	3.8	3.2 - 4.3	97	2.70	0.01	0.0	2.7	2.2 - 3.2
All i-STAT Instruments	103	3.79	0.04	1.0	3.8	3.2 - 4.3	97	2.70	0.01	0.0	2.7	2.2 - 3.2
i-STAT - moderate	91	3.79	0.04	1.0	3.8	3.2 - 4.3	85	2.70	0.01	0.0	2.7	2.2 - 3.2
i-STAT - waived	11	3.80	0.01	0.0	3.8	3.3 - 4.3	12	2.70	0.01	0.0	2.7	2.2 - 3.2

	Specimen IST-10					
All Method	101	6.51	0.05	0.7	6.5	6.0 - 7.1
All i-STAT Instruments	101	6.51	0.05	0.7	6.5	6.0 - 7.1
i-STAT - moderate	89	6.51	0.05	0.7	6.5	6.0 - 7.1
i-STAT - waived	11	6.50	0.01	0.0	6.5	6.0 - 7.0

Chloride (mmol/L)

	Specimen IST-6						Specimen IST-7				
Instrument	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	107	75.1	0.6	0.9	75	71 - 79	107	107.6	0.7	0.7	108	102 - 114
All i-STAT Instruments	107	75.1	0.6	0.9	75	71 - 79	107	107.6	0.7	0.7	108	102 - 114
i-STAT - moderate	93	75.1	0.6	0.9	75	71 - 79	92	107.7	0.7	0.6	108	102 - 114
i-STAT - waived	15	74.7	0.8	1.1	75	70 - 79	15	107.3	0.7	0.7	107	101 - 113

	Specimen IST-8						Specimen IST-9				
All Method	103	86.5	0.6	0.7	87	82 - 91	102	75.0	0.6	0.7	75	71 - 79
All i-STAT Instruments	103	86.5	0.6	0.7	87	82 - 91	102	75.0	0.6	0.7	75	71 - 79
i-STAT - moderate	92	86.5	0.6	0.7	87	82 - 91	91	75.0	0.5	0.7	75	71 - 79
i-STAT - waived	11	86.3	0.8	0.9	86	81 - 91	11	75.0	0.6	0.8	75	71 - 79

	Specimen IST-10					
All Method	99	107.6	0.7	0.6	108	102 - 113
All i-STAT Instruments	99	107.6	0.7	0.6	108	102 - 113
i-STAT - moderate	88	107.6	0.6	0.6	108	102 - 114
i-STAT - waived	11	107.2	0.9	0.8	107	101 - 113

tCO$_2$ (mmol/L)

	Specimen IST-6						Specimen IST-7				
Instrument	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	104	23.4	0.9	3.6	23	18 - 29	104	24.8	1.0	4.0	25	19 - 30
All i-STAT Instruments	104	23.4	0.9	3.6	23	18 - 29	104	24.8	1.0	4.0	25	19 - 30
i-STAT - moderate	90	23.4	0.9	3.8	23	18 - 29	90	24.9	0.9	3.5	25	19 - 30
i-STAT - waived	14	23.3	0.6	2.6	23	18 - 28	14	24.0	1.8	7.3	25	19 - 29

	Specimen IST-8						Specimen IST-9				
All Method	99	26.3	0.9	3.6	26	21 - 32	97	23.2	0.8	3.4	23	18 - 28
All i-STAT Instruments	99	26.3	0.9	3.6	26	21 - 32	97	23.2	0.8	3.4	23	18 - 28
i-STAT - moderate	89	26.4	1.0	3.6	26	21 - 32	89	23.3	0.9	3.9	23	18 - 28
i-STAT - waived	10	26.2	0.8	3.0	26	20 - 32	10	23.0	0.7	2.9	23	18 - 28

	Specimen IST-10					
All Method	98	24.8	1.1	4.4	25	19 - 30
All i-STAT Instruments	98	24.8	1.1	4.4	25	19 - 30
i-STAT - moderate	88	24.7	1.0	4.1	25	19 - 30
i-STAT - waived	10	25.2	2.1	8.5	25	20 - 31

Urea Nitrogen (BUN) (mg/dL)

Specimen IST-6 / Specimen IST-7

Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	107	67.2	1.2	1.8	67	61 - 74	107	16.2	0.5	3.0	16	14 - 19
All i-STAT Instruments	107	67.2	1.2	1.8	67	61 - 74	107	16.2	0.5	3.0	16	14 - 19
i-STAT - moderate	91	67.2	1.2	1.8	67	61 - 74	91	16.2	0.5	2.8	16	14 - 19
i-STAT - waived	16	67.6	1.1	1.6	68	61 - 74	16	16.1	0.6	3.8	16	14 - 19

Specimen IST-8 / Specimen IST-9

Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	102	60.6	1.1	1.8	61	55 - 67	100	67.5	1.0	1.5	67	61 - 74
All i-STAT Instruments	102	60.6	1.1	1.8	61	55 - 67	100	67.5	1.0	1.5	67	61 - 74
i-STAT - moderate	91	60.5	1.2	1.9	61	55 - 66	88	67.5	1.1	1.6	67	61 - 74
i-STAT - waived	12	60.8	0.8	1.4	61	55 - 67	12	67.5	0.8	1.2	68	61 - 74

Specimen IST-10

Instrument	Labs	Mean	SD	CV	Median	Range
All Method	102	16.3	0.5	3.1	16	14 - 19
All i-STAT Instruments	102	16.3	0.5	3.1	16	14 - 19
i-STAT - moderate	90	16.3	0.5	3.1	16	14 - 19
i-STAT - waived	12	16.3	0.5	3.0	16	14 - 19

Glucose (mg/dL)

Specimen IST-6 / Specimen IST-7

Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	107	177.1	1.3	0.7	177	159 - 195	108	76.5	1.1	1.4	77	68 - 85
All i-STAT Instruments	107	177.1	1.3	0.7	177	159 - 195	108	76.5	1.1	1.4	77	68 - 85
i-STAT - moderate	92	177.1	1.2	0.7	177	159 - 195	92	76.6	1.1	1.4	77	68 - 85
i-STAT - waived	16	177.6	1.9	1.1	177	159 - 196	16	76.5	1.3	1.7	77	68 - 85

Specimen IST-8 / Specimen IST-9

Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	102	144.6	1.0	0.7	145	130 - 160	101	177.0	1.4	0.8	177	159 - 195
All i-STAT Instruments	102	144.6	1.0	0.7	145	130 - 160	101	177.0	1.4	0.8	177	159 - 195
i-STAT - moderate	91	144.6	1.0	0.7	145	130 - 160	89	177.0	1.3	0.7	177	159 - 195
i-STAT - waived	12	145.0	1.2	0.8	145	130 - 160	12	177.3	2.1	1.2	177	159 - 196

Specimen IST-10

Instrument	Labs	Mean	SD	CV	Median	Range
All Method	103	76.6	1.2	1.6	77	68 - 85
All i-STAT Instruments	103	76.6	1.2	1.6	77	68 - 85
i-STAT - moderate	91	76.5	1.2	1.5	77	68 - 85
i-STAT - waived	12	77.0	1.4	1.8	77	69 - 85

Hematocrit (percent)

| | Specimen IST-6 | | | | | | Specimen IST-7 | | | | | |
Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	22	20.6	0.6	2.9	21	19 - 22	22	29.6	0.8	2.7	30	27 - 32
All i-STAT Instruments	22	20.6	0.6	2.9	21	19 - 22	22	29.6	0.8	2.7	30	27 - 32
i-STAT - moderate	13	20.7	0.6	3.0	21	19 - 22	13	29.8	0.8	2.8	30	27 - 32
i-STAT - waived	9	20.4	0.5	2.6	20	19 - 22	9	29.3	0.7	2.4	29	27 - 32

| | Specimen IST-8 | | | | | | Specimen IST-9 | | | | | |
Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	18	25.2	0.4	1.5	25	23 - 27	18	20.4	0.5	2.5	20	19 - 22
All i-STAT Instruments	18	25.2	0.4	1.5	25	23 - 27	18	20.4	0.5	2.5	20	19 - 22
i-STAT - moderate	12	25.3	0.5	1.8	25	23 - 27	12	20.6	0.5	2.5	21	19 - 22
i-STAT - waived	6	25.0	0.1	0.0	25	23 - 27	6	20.2	0.4	2.0	20	18 - 22

| | Specimen IST-10 | | | | | |
Instrument	Labs	Mean	SD	CV	Median	Range
All Method	18	29.5	0.6	2.1	29	27 - 32
All i-STAT Instruments	18	29.5	0.6	2.1	29	27 - 32
i-STAT - moderate	12	29.6	0.7	2.3	30	27 - 32
i-STAT - waived	6	29.3	0.5	1.8	29	27 - 32

Hemoglobin (g/dL)

| | Specimen IST-6 | | | | | | Specimen IST-7 | | | | | |
Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	22	6.98	0.19	2.7	7.1	6.4 - 7.5	22	10.07	0.25	2.5	10.1	9.3 - 10.8
All i-STAT Instruments	22	6.98	0.19	2.7	7.1	6.4 - 7.5	22	10.07	0.25	2.5	10.1	9.3 - 10.8
i-STAT - moderate	13	7.02	0.21	3.0	7.1	6.5 - 7.6	13	10.13	0.25	2.5	10.2	9.4 - 10.9
i-STAT - waived	9	6.93	0.16	2.3	6.8	6.4 - 7.5	9	9.99	0.24	2.4	9.9	9.2 - 10.7

| | Specimen IST-8 | | | | | | Specimen IST-9 | | | | | |
Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	18	8.55	0.12	1.3	8.5	7.9 - 9.2	18	6.93	0.15	2.2	6.8	6.4 - 7.5
All i-STAT Instruments	18	8.55	0.12	1.3	8.5	7.9 - 9.2	18	6.93	0.15	2.2	6.8	6.4 - 7.5
i-STAT - moderate	12	8.58	0.14	1.6	8.5	7.9 - 9.2	12	6.98	0.15	2.2	7.1	6.4 - 7.5
i-STAT - waived	6	8.50	0.01	0.0	8.5	7.9 - 9.1	6	6.85	0.12	1.8	6.8	6.3 - 7.4

| | Specimen IST-10 | | | | | |
Instrument	Labs	Mean	SD	CV	Median	Range
All Method	18	10.05	0.19	1.8	9.9	9.3 - 10.8
All i-STAT Instruments	18	10.05	0.19	1.8	9.9	9.3 - 10.8
i-STAT - moderate	12	10.08	0.20	2.0	10.1	9.3 - 10.8
i-STAT - waived	6	10.00	0.15	1.5	9.9	9.3 - 10.7

Creatinine (mg/dL)

			Specimen IST-6						Specimen IST-7			
Instrument	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	117	4.17	0.13	3.2	4.2	3.5 - 4.8	120	0.79	0.04	4.7	0.8	0.4 - 1.1
All i-STAT Instruments	117	4.17	0.13	3.2	4.2	3.5 - 4.8	120	0.79	0.04	4.7	0.8	0.4 - 1.1
i-STAT - moderate	89	4.19	0.13	3.1	4.2	3.5 - 4.9	91	0.79	0.04	5.0	0.8	0.4 - 1.1
i-STAT - waived	29	4.12	0.16	3.8	4.1	3.4 - 4.8	27	0.80	0.01	0.0	0.8	0.5 - 1.1

			Specimen IST-8						Specimen IST-9			
All Method	100	6.51	0.22	3.3	6.5	5.5 - 7.5	99	4.19	0.14	3.3	4.2	3.5 - 4.9
All i-STAT Instruments	100	6.51	0.22	3.3	6.5	5.5 - 7.5	99	4.19	0.14	3.3	4.2	3.5 - 4.9
i-STAT - moderate	90	6.52	0.22	3.4	6.5	5.5 - 7.6	89	4.20	0.14	3.3	4.2	3.5 - 4.9
i-STAT - waived	11	6.31	0.24	3.8	6.3	5.3 - 7.3	11	4.06	0.18	4.4	4.1	3.4 - 4.7

			Specimen IST-10			
All Method	93	0.80	0.01	0.0	0.8	0.5 - 1.1
All i-STAT Instruments	93	0.80	0.01	0.0	0.8	0.5 - 1.1
i-STAT - moderate	83	0.80	0.01	0.0	0.8	0.5 - 1.1
i-STAT - waived	10	0.80	0.01	0.0	0.8	0.5 - 1.1

Ionized Calcium (mmol/L)

		Specimen IST-6							Specimen IST-7			
Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	99	2.051	0.018	0.9	2.05	1.99 - 2.11	99	0.898	0.009	1.0	0.90	0.87 - 0.93
All i-STAT Instruments	99	2.051	0.018	0.9	2.05	1.99 - 2.11	99	0.898	0.009	1.0	0.90	0.87 - 0.93
i-STAT - moderate	87	2.050	0.018	0.9	2.05	1.99 - 2.11	86	0.898	0.009	1.0	0.90	0.87 - 0.93
i-STAT - waived	13	2.050	0.028	1.4	2.06	1.96 - 2.14	13	0.901	0.009	1.0	0.90	0.87 - 0.93

		Specimen IST-8							Specimen IST-9			
All Method	95	2.200	0.020	0.9	2.20	2.14 - 2.26	94	2.052	0.021	1.0	2.05	1.98 - 2.12
All i-STAT Instruments	95	2.200	0.020	0.9	2.20	2.14 - 2.26	94	2.052	0.021	1.0	2.05	1.98 - 2.12
i-STAT - moderate	86	2.200	0.020	0.9	2.20	2.13 - 2.27	86	2.052	0.022	1.0	2.05	1.98 - 2.12
i-STAT - waived	9	-	-	-	2.20	2.14 - 2.26	9	-	-	-	2.05	1.98 - 2.12

		Specimen IST-10				
All Method	92	0.899	0.008	0.9	0.90	0.87 - 0.93
All i-STAT Instruments	92	0.899	0.008	0.9	0.90	0.87 - 0.93
i-STAT - moderate	84	0.898	0.008	0.9	0.90	0.87 - 0.93
i-STAT - waived	9	-	-	-	0.90	0.87 - 0.93

Albumin (g/dL)

Reagent/Instrument	Specimen CH-6						Specimen CH-7					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	175	1.86	0.19	10.3	1.9	1.6 - 2.1	175	2.43	0.26	10.6	2.5	2.1 - 2.7
All Bromocresol Green Reagents	133	1.95	0.10	5.3	2.0	1.7 - 2.2	133	2.56	0.13	5.1	2.6	2.3 - 2.9
All Bromocresol Purple Reagents	42	1.58	0.11	7.0	1.5	1.4 - 1.8	39	2.01	0.06	3.0	2.0	1.8 - 2.3
Abaxis Piccolo												
Abaxis Piccolo - waived	15	1.67	0.12	7.3	1.7	1.5 - 1.9	15	2.11	0.13	6.1	2.1	1.8 - 2.4
All Chemistry Instruments	17	1.67	0.12	6.9	1.7	1.5 - 1.9	17	2.10	0.12	5.8	2.1	1.8 - 2.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	1.99	0.05	2.7	2.0	1.7 - 2.2	21	2.60	0.07	2.6	2.6	2.3 - 2.9
Beckman AU												
Beckman AU systems	30	1.98	0.06	3.1	2.0	1.7 - 2.2	30	2.60	0.06	2.5	2.6	2.3 - 2.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	1.94	0.07	3.5	1.9	1.7 - 2.2	20	2.51	0.11	4.6	2.5	2.2 - 2.8
Roche cobas c 501												
Roche cobas 6000 / c 501	9	2.08	0.07	3.2	2.1	1.8 - 2.3	9	2.70	0.09	3.2	2.7	2.4 - 3.0
Roche Integra												
Roche Integra	13	2.02	0.04	2.2	2.0	1.8 - 2.3	13	2.67	0.05	1.8	2.7	2.4 - 3.0
Siemens Healthcare												
Siemens Dimension	25	1.51	0.03	2.2	1.5	1.3 - 1.7	25	1.99	0.05	2.6	2.0	1.7 - 2.2
VITROS												
VITROS 250,350,400 500,700,750,950	16	1.79	0.07	4.0	1.8	1.6 - 2.0	16	2.36	0.10	4.3	2.3	2.1 - 2.6
All Chemistry Instruments	23	1.79	0.07	3.7	1.8	1.6 - 2.0	23	2.37	0.09	3.9	2.4	2.1 - 2.7

Albumin (g/dL)

Reagent/Instrument	Specimen CH-8						Specimen CH-9					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	164	3.31	0.34	10.2	3.4	2.9 - 3.7	164	3.04	0.30	10.0	3.1	2.7 - 3.4
All Bromocresol Green Reagents	132	3.46	0.15	4.3	3.5	3.1 - 3.9	132	3.17	0.14	4.3	3.2	2.8 - 3.5
All Bromocresol Purple Reagents	31	2.68	0.11	4.0	2.7	2.4 - 3.0	31	2.47	0.11	4.4	2.4	2.2 - 2.8
Abaxis Piccolo												
Abaxis Piccolo - waived	5	2.74	0.24	8.8	2.6	2.4 - 3.1	5	2.56	0.22	8.6	2.4	2.3 - 2.9
All Chemistry Instruments	6	2.73	0.22	7.9	2.7	2.4 - 3.1	6	2.55	0.20	7.7	2.5	2.2 - 2.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	3.51	0.10	3.0	3.5	3.1 - 3.9	21	3.21	0.08	2.5	3.2	2.8 - 3.6
Beckman AU												
Beckman AU systems	30	3.49	0.08	2.4	3.5	3.1 - 3.9	30	3.18	0.08	2.5	3.2	2.8 - 3.6
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	3.29	0.14	4.2	3.3	2.9 - 3.7	20	3.05	0.12	4.1	3.1	2.7 - 3.4
Roche cobas c 501												
Roche cobas 6000 / c 501	9	3.67	0.09	2.4	3.7	3.3 - 4.1	9	3.37	0.07	2.1	3.4	3.0 - 3.8
Roche Integra												
Roche Integra	13	3.59	0.06	1.8	3.6	3.2 - 4.0	13	3.30	0.07	2.1	3.3	2.9 - 3.7
Siemens Healthcare												
Siemens Dimension	25	2.67	0.06	2.3	2.7	2.4 - 3.0	25	2.46	0.07	2.9	2.4	2.2 - 2.8
VITROS												
VITROS 250,350,400 500,700,750,950	16	3.31	0.13	4.0	3.3	2.9 - 3.7	16	3.03	0.09	2.9	3.0	2.7 - 3.4
All Chemistry Instruments	23	3.33	0.12	3.6	3.3	2.9 - 3.7	23	3.03	0.08	2.7	3.0	2.7 - 3.4

Albumin (g/dL)

Specimen CH-10

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	162	3.72	0.39	10.5	3.9	3.3 - 4.1
All Bromocresol Green Reagents	129	3.91	0.16	4.1	3.9	3.5 - 4.3
All Bromocresol Purple Reagents	30	2.99	0.07	2.4	3.0	2.6 - 3.3
Abaxis Piccolo						
Abaxis Piccolo - waived	5	2.96	0.19	6.6	2.9	2.6 - 3.3
All Chemistry Instruments	6	2.97	0.18	5.9	2.9	2.6 - 3.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	3.92	0.09	2.3	3.9	3.5 - 4.4
Beckman AU						
Beckman AU systems	30	3.89	0.10	2.5	3.9	3.5 - 4.3
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	19	3.68	0.15	4.2	3.7	3.3 - 4.1
Roche cobas c 501						
Roche cobas 6000 / c 501	9	4.11	0.06	1.5	4.1	3.6 - 4.6
Roche Integra						
Roche Integra	12	4.07	0.09	2.2	4.1	3.6 - 4.5
Siemens Healthcare						
Siemens Dimension	25	3.01	0.06	1.9	3.0	2.7 - 3.4
VITROS						
VITROS 250,350,400 500,700,750,950	16	3.89	0.16	4.2	3.9	3.4 - 4.3
All Chemistry Instruments	23	3.88	0.14	3.7	3.9	3.4 - 4.3

Bilirubin, Direct (mg/dL)

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-6							Specimen CH-7		
All Method	98	0.15	0.07	48.7	0.2	0.0 - 0.3	100	0.43	0.16	38.0	0.4	0.1 - 0.8
All Alfa Wassermann Reagents	10	0.23	0.05	21.0	0.2	0.1 - 0.4	10	0.65	0.11	16.6	0.7	0.4 - 0.9
All Roche Reagents	17	0.14	0.05	35.9	0.1	0.0 - 0.3	18	0.32	0.05	16.2	0.3	0.2 - 0.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	0.23	0.05	21.0	0.2	0.1 - 0.4	10	0.65	0.11	16.6	0.7	0.4 - 0.9
Beckman AU												
Beckman AU systems	19	0.17	0.05	28.4	0.2	0.0 - 0.3	19	0.48	0.08	17.2	0.5	0.3 - 0.7
Siemens Healthcare												
Siemens Dimension	18	0.10	0.01	0.0	0.1	0.0 - 0.2	18	0.34	0.05	14.8	0.3	0.2 - 0.5
All Chemistry Instruments	18	0.10	0.01	0.0	0.1	0.0 - 0.2	19	0.34	0.05	14.8	0.3	0.2 - 0.5
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	10	0.05	0.10	194.4	0.0	0.0 - 0.3	10	0.22	0.15	67.1	0.3	0.0 - 0.6
All Chemistry Instruments	12	0.07	0.10	147.7	0.0	0.0 - 0.3	12	0.24	0.14	59.7	0.3	0.0 - 0.6
			Specimen CH-8							Specimen CH-9		
All Method	99	0.87	0.27	30.8	0.8	0.3 - 1.5	100	0.72	0.24	33.0	0.7	0.2 - 1.2
All Alfa Wassermann Reagents	10	1.23	0.16	12.7	1.3	0.9 - 1.6	10	1.05	0.14	13.7	1.1	0.7 - 1.4
All Roche Reagents	18	0.64	0.10	15.3	0.7	0.4 - 0.9	18	0.53	0.08	14.2	0.5	0.3 - 0.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	1.23	0.16	12.7	1.3	0.9 - 1.6	10	1.05	0.14	13.7	1.1	0.7 - 1.4
Beckman AU												
Beckman AU systems	19	0.96	0.11	11.1	1.0	0.7 - 1.2	19	0.78	0.11	14.6	0.8	0.5 - 1.1
Siemens Healthcare												
Siemens Dimension	17	0.65	0.09	13.4	0.7	0.4 - 0.9	18	0.52	0.07	14.0	0.5	0.3 - 0.7
All Chemistry Instruments	18	0.66	0.09	13.9	0.7	0.4 - 0.9	19	0.53	0.07	13.9	0.5	0.3 - 0.7
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	10	0.63	0.23	36.7	0.7	0.1 - 1.1	10	0.54	0.24	43.8	0.6	0.0 - 1.1
All Chemistry Instruments	12	0.68	0.23	34.7	0.7	0.2 - 1.2	12	0.58	0.23	40.0	0.6	0.1 - 1.1

Bilirubin, Direct (mg/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	99	1.05	0.29	27.9	1.0	0.4 - 1.7
All Alfa Wassermann Reagents	10	1.45	0.16	11.4	1.5	1.1 - 1.8
All Roche Reagents	17	0.77	0.11	14.3	0.8	0.5 - 1.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	10	1.45	0.16	11.4	1.5	1.1 - 1.8
Beckman AU						
Beckman AU systems	19	1.09	0.15	13.4	1.1	0.8 - 1.4
Siemens Healthcare						
Siemens Dimension	18	0.80	0.10	12.1	0.8	0.6 - 1.0
All Chemistry Instruments	19	0.81	0.10	12.0	0.8	0.6 - 1.0
VITROS-BuBc and Bc						
VITROS 250,350,400 500,700,750,950	10	0.92	0.19	21.0	1.0	0.5 - 1.4
All Chemistry Instruments	12	0.96	0.20	20.6	1.0	0.5 - 1.4

Bilirubin, Total (mg/dL)

			Specimen CH-6						Specimen CH-7			
Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	173	0.47	0.11	22.9	0.5	0.0 - 0.9	175	1.40	0.20	14.4	1.4	0.9 - 1.8
All Alfa Wassermann Reagents	22	0.58	0.08	14.1	0.6	0.1 - 1.0	22	1.63	0.21	12.6	1.7	1.2 - 2.1
All Horiba Pentra Reagents	20	0.48	0.08	16.0	0.5	0.0 - 0.9	20	1.46	0.15	10.3	1.5	1.0 - 1.9
All Roche T. bili Special Reagents	20	0.36	0.05	14.0	0.4	0.0 - 0.8	20	1.18	0.12	10.5	1.2	0.7 - 1.6
Abaxis Piccolo												
Abaxis Piccolo - waived	15	0.56	0.06	11.3	0.6	0.1 - 1.0	15	1.37	0.12	8.5	1.4	0.9 - 1.8
All Chemistry Instruments	17	0.55	0.07	13.0	0.6	0.1 - 1.0	17	1.36	0.12	8.7	1.4	0.9 - 1.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	0.58	0.08	14.1	0.6	0.1 - 1.0	22	1.63	0.21	12.6	1.7	1.2 - 2.1
Beckman AU												
Beckman AU systems	29	0.50	0.09	18.0	0.5	0.1 - 1.0	29	1.44	0.16	11.1	1.5	1.0 - 1.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	0.48	0.08	16.0	0.5	0.0 - 0.9	20	1.46	0.15	10.3	1.5	1.0 - 1.9
Siemens Healthcare												
Siemens Dimension	25	0.44	0.08	18.6	0.5	0.0 - 0.9	25	1.35	0.16	11.5	1.4	0.9 - 1.8
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	17	0.38	0.17	43.6	0.4	0.0 - 0.8	17	1.35	0.23	17.2	1.4	0.9 - 1.8
All Chemistry Instruments	23	0.37	0.15	39.7	0.4	0.0 - 0.8	23	1.34	0.21	15.4	1.4	0.9 - 1.8

Bilirubin, Total (mg/dL)

Reagent/Instrument	Specimen CH-8						Specimen CH-9					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	163	2.80	0.35	12.4	2.8	2.2 - 3.4	162	2.32	0.28	12.3	2.3	1.8 - 2.8
All Alfa Wassermann Reagents	22	3.26	0.39	11.9	3.3	2.6 - 4.0	22	2.72	0.35	12.8	2.8	2.1 - 3.3
All Horiba Pentra Reagents	20	2.94	0.26	8.8	2.9	2.3 - 3.6	20	2.37	0.24	10.0	2.4	1.8 - 2.9
All Roche T. bili Special Reagents	20	2.43	0.22	9.2	2.5	1.9 - 3.0	20	2.01	0.22	10.8	2.1	1.6 - 2.5
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	2.5	2.2 - 3.4	5	-	-	-	2.0	1.8 - 2.8
All Chemistry Instruments	6	-	-	-	2.5	2.0 - 3.1	6	-	-	-	2.1	1.6 - 2.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	3.26	0.39	11.9	3.3	2.6 - 4.0	22	2.72	0.35	12.8	2.8	2.1 - 3.3
Beckman AU												
Beckman AU systems	29	2.84	0.25	8.7	3.0	2.2 - 3.5	29	2.38	0.16	6.6	2.3	1.9 - 2.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	2.94	0.26	8.8	2.9	2.3 - 3.6	20	2.37	0.24	10.0	2.4	1.8 - 2.9
Siemens Healthcare												
Siemens Dimension	25	2.77	0.31	11.1	2.8	2.2 - 3.4	25	2.28	0.22	9.6	2.3	1.8 - 2.8
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	17	2.78	0.31	11.2	2.8	2.2 - 3.4	17	2.31	0.24	10.6	2.3	1.8 - 2.8
All Chemistry Instruments	23	2.76	0.28	10.1	2.7	2.2 - 3.4	23	2.28	0.22	9.8	2.3	1.8 - 2.8

Bilirubin, Total (mg/dL)

Specimen CH-10

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	161	3.37	0.39	11.5	3.3	2.6 - 4.1
All Alfa Wassermann Reagents	22	3.80	0.45	11.7	3.9	3.0 - 4.6
All Horiba Pentra Reagents	20	3.46	0.29	8.5	3.5	2.7 - 4.2
All Roche T. bili Special Reagents	19	2.97	0.28	9.6	3.0	2.3 - 3.6
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	2.8	2.6 - 4.1
All Chemistry Instruments	6	-	-	-	3.0	2.3 - 3.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	22	3.80	0.45	11.7	3.9	3.0 - 4.6
Beckman AU						
Beckman AU systems	29	3.39	0.25	7.3	3.3	2.7 - 4.1
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	20	3.46	0.29	8.5	3.5	2.7 - 4.2
Siemens Healthcare						
Siemens Dimension	24	3.38	0.26	7.7	3.5	2.7 - 4.1
VITROS - TBIL						
VITROS 250,350,400 500,700,750,950	17	3.34	0.28	8.5	3.3	2.6 - 4.1
All Chemistry Instruments	23	3.34	0.26	7.8	3.3	2.6 - 4.1

Calcium (mg/dL)

Reagent/Instrument	Specimen CH-6					Specimen CH-7				
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	174	7.88	0.25	3.2	7.9	6.8 - 8.9	174	9.24	0.26	2.8	9.2	8.2 - 10.3
All Arsenazo Methods	78	7.95	0.31	4.0	7.9	6.9 - 9.0	77	9.34	0.28	3.0	9.4	8.3 - 10.4
All CPC Methods	96	7.83	0.20	2.5	7.8	6.8 - 8.9	96	9.17	0.23	2.5	9.2	8.1 - 10.2
Abaxis Piccolo											
Abaxis Piccolo - waived	15	8.20	0.21	2.6	8.2	7.2 - 9.2	15	9.57	0.14	1.4	9.6	8.5 - 10.6
All Chemistry Instruments	17	8.22	0.21	2.5	8.3	7.2 - 9.3	17	9.56	0.14	1.4	9.6	8.5 - 10.6
Alfa Wassermann											
Alfa Wassermann ACE Alera/Axcel	22	8.01	0.26	3.2	7.9	7.0 - 9.1	22	9.46	0.23	2.4	9.4	8.4 - 10.5
Beckman AU											
Beckman AU systems	30	7.70	0.18	2.3	7.7	6.6 - 8.7	30	9.01	0.20	2.3	9.1	8.0 - 10.1
Horiba ABX Pentra											
Horiba ABX Pentra 400 / C400	17	7.89	0.19	2.4	7.9	6.8 - 8.9	17	9.28	0.18	1.9	9.3	8.2 - 10.3
Roche Integra											
Roche Integra	13	7.97	0.12	1.5	8.0	6.9 - 9.0	13	9.30	0.13	1.4	9.3	8.3 - 10.3
Siemens Healthcare											
Siemens Dimension	24	7.78	0.14	1.8	7.8	6.7 - 8.8	24	9.10	0.17	1.9	9.1	8.0 - 10.1
All Chemistry Instruments	25	7.78	0.14	1.8	7.8	6.7 - 8.8	25	9.10	0.17	1.9	9.1	8.0 - 10.1
VITROS											
VITROS 250,350,400 500,700,750,950	17	7.93	0.23	2.9	7.9	6.9 - 9.0	17	9.30	0.22	2.3	9.4	8.3 - 10.3
All Chemistry Instruments	24	7.92	0.22	2.7	7.9	6.9 - 9.0	24	9.27	0.21	2.2	9.3	8.2 - 10.3

Calcium (mg/dL)

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-8							Specimen CH-9		
All Method	162	11.20	0.28	2.5	11.2	10.2 - 12.3	165	10.55	0.30	2.8	10.5	9.5 - 11.6
All Arsenazo Methods	66	11.25	0.35	3.1	11.3	10.2 - 12.3	67	10.60	0.35	3.3	10.6	9.6 - 11.7
All CPC Methods	96	11.18	0.27	2.4	11.2	10.1 - 12.2	96	10.52	0.24	2.3	10.5	9.5 - 11.6
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	11.8	10.2 - 12.3	5	-	-	-	11.0	9.6 - 11.7
All Chemistry Instruments	6	-	-	-	11.7	10.6 - 12.7	6	-	-	-	11.0	9.9 - 12.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	11.40	0.38	3.4	11.3	10.3 - 12.4	22	10.73	0.35	3.3	10.8	9.7 - 11.8
Beckman AU												
Beckman AU systems	30	11.08	0.24	2.1	11.1	10.0 - 12.1	30	10.42	0.19	1.8	10.4	9.4 - 11.5
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	11.32	0.25	2.2	11.3	10.3 - 12.4	17	10.68	0.24	2.3	10.7	9.6 - 11.7
Roche Integra												
Roche Integra	13	11.36	0.21	1.8	11.4	10.3 - 12.4	13	10.63	0.14	1.4	10.7	9.6 - 11.7
Siemens Healthcare												
Siemens Dimension	24	11.00	0.21	1.9	11.0	10.0 - 12.0	24	10.36	0.22	2.1	10.3	9.3 - 11.4
All Chemistry Instruments	25	11.01	0.21	1.9	11.0	10.0 - 12.1	25	10.36	0.21	2.1	10.3	9.3 - 11.4
VITROS												
VITROS 250,350,400 500,700,750,950	17	11.28	0.25	2.2	11.3	10.2 - 12.3	17	10.66	0.26	2.4	10.7	9.6 - 11.7
All Chemistry Instruments	24	11.24	0.23	2.0	11.3	10.2 - 12.3	24	10.61	0.25	2.3	10.6	9.6 - 11.7

Calcium (mg/dL)

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Specimen CH-10

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Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	163	12.16	0.33	2.7	12.2	11.1 - 13.2
All Arsenazo Methods	66	12.16	0.37	3.1	12.3	11.1 - 13.2
All CPC Methods	95	12.17	0.30	2.4	12.2	11.1 - 13.2
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	12.4	11.1 - 13.2
All Chemistry Instruments	6	-	-	-	12.4	11.2 - 13.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	12.25	0.35	2.8	12.4	11.2 - 13.3
Beckman AU						
Beckman AU systems	30	12.12	0.28	2.3	12.2	11.1 - 13.2
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	12.34	0.35	2.8	12.4	11.3 - 13.4
Roche Integra						
Roche Integra	12	12.26	0.17	1.4	12.3	11.2 - 13.3
Siemens Healthcare						
Siemens Dimension	24	11.97	0.24	2.0	12.0	10.9 - 13.0
All Chemistry Instruments	25	11.97	0.23	1.9	12.0	10.9 - 13.0
VITROS						
VITROS 250,350,400 500,700,750,950	17	12.23	0.29	2.4	12.3	11.2 - 13.3
All Chemistry Instruments	24	12.18	0.27	2.2	12.2	11.1 - 13.2

Creatinine (mg/dL)

Reagent/Instrument	Specimen CH-6						Specimen CH-7					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	172	1.07	0.10	9.3	1.1	0.7 - 1.4	173	2.01	0.11	5.4	2.0	1.7 - 2.4
All Alfa Wassermann Reagents	22	1.19	0.08	6.3	1.2	0.8 - 1.5	22	2.10	0.09	4.4	2.1	1.7 - 2.5
All Roche Reagents	24	1.03	0.09	8.4	1.0	0.7 - 1.4	24	1.97	0.12	5.9	2.0	1.6 - 2.3
All VITROS Reagents	24	1.05	0.05	4.8	1.1	0.7 - 1.4	24	2.06	0.06	2.8	2.1	1.7 - 2.4
Abaxis Piccolo												
Abaxis Piccolo - waived	15	1.17	0.10	9.0	1.2	0.8 - 1.5	15	2.13	0.28	13.1	2.1	1.8 - 2.5
All Chemistry Instruments	17	1.17	0.10	8.9	1.2	0.8 - 1.5	17	2.11	0.27	12.6	2.1	1.7 - 2.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	1.19	0.08	6.3	1.2	0.8 - 1.5	22	2.10	0.09	4.4	2.1	1.7 - 2.5
Beckman AU												
Beckman AU systems	30	1.02	0.06	5.6	1.0	0.7 - 1.4	31	1.98	0.07	3.8	2.0	1.6 - 2.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	0.95	0.06	6.4	1.0	0.6 - 1.3	19	1.89	0.08	4.3	1.9	1.5 - 2.2
Roche Integra												
Roche Integra	13	1.03	0.06	6.1	1.0	0.7 - 1.4	13	1.95	0.08	4.0	2.0	1.6 - 2.3
Siemens Healthcare												
Siemens Dimension	24	1.14	0.06	5.1	1.1	0.8 - 1.5	24	2.03	0.07	3.4	2.0	1.7 - 2.4
All Chemistry Instruments	24	1.14	0.06	5.1	1.1	0.8 - 1.5	25	2.02	0.07	3.6	2.0	1.7 - 2.4
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	13	1.06	0.05	4.8	1.1	0.7 - 1.4	13	2.08	0.06	2.9	2.1	1.7 - 2.4
All Chemistry Instruments	19	1.05	0.05	4.9	1.0	0.7 - 1.4	19	2.06	0.06	2.9	2.1	1.7 - 2.4

Creatinine (mg/dL)

Reagent/Instrument	Specimen CH-8						Specimen CH-9					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	163	3.38	0.17	5.2	3.4	2.8 - 3.9	164	2.93	0.15	5.1	3.0	2.4 - 3.4
All Alfa Wassermann Reagents	22	3.40	0.21	6.2	3.3	2.8 - 4.0	22	2.98	0.15	5.1	2.9	2.5 - 3.5
All Roche Reagents	24	3.26	0.18	5.6	3.2	2.7 - 3.8	24	2.85	0.16	5.8	2.8	2.4 - 3.3
All VITROS Reagents	24	3.46	0.10	2.9	3.5	2.9 - 4.0	24	3.02	0.07	2.4	3.0	2.5 - 3.5
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	3.5	2.8 - 3.9	5	-	-	-	3.0	2.4 - 3.4
All Chemistry Instruments	6	-	-	-	3.5	2.9 - 4.1	6	-	-	-	3.0	2.5 - 3.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	3.40	0.21	6.2	3.3	2.8 - 4.0	22	2.98	0.15	5.1	2.9	2.5 - 3.5
Beckman AU												
Beckman AU systems	31	3.35	0.09	2.7	3.4	2.8 - 3.9	31	2.89	0.09	3.2	2.9	2.4 - 3.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	3.22	0.11	3.5	3.2	2.7 - 3.7	19	2.76	0.13	4.5	2.8	2.3 - 3.2
Roche Integra												
Roche Integra	13	3.19	0.09	2.7	3.2	2.7 - 3.7	13	2.81	0.09	3.1	2.8	2.3 - 3.3
Siemens Healthcare												
Siemens Dimension	24	3.52	0.07	1.9	3.5	2.9 - 4.1	24	3.05	0.07	2.2	3.1	2.5 - 3.6
All Chemistry Instruments	25	3.52	0.07	1.9	3.5	2.9 - 4.1	25	3.05	0.07	2.1	3.1	2.5 - 3.6
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	13	3.48	0.08	2.4	3.5	2.9 - 4.0	13	3.03	0.08	2.5	3.0	2.5 - 3.5
All Chemistry Instruments	19	3.44	0.10	2.8	3.4	2.9 - 4.0	19	3.01	0.07	2.4	3.0	2.5 - 3.5

Creatinine (mg/dL)

Specimen CH-10

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	162	4.03	0.22	5.4	4.0	3.4 - 4.7
All Alfa Wassermann Reagents	21	3.99	0.17	4.3	4.0	3.3 - 4.6
All Roche Reagents	23	3.85	0.23	6.0	3.8	3.2 - 4.5
All VITROS Reagents	24	4.12	0.10	2.5	4.1	3.5 - 4.8
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	4.2	3.4 - 4.7
All Chemistry Instruments	6	-	-	-	4.2	3.5 - 4.8
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	3.99	0.17	4.3	4.0	3.3 - 4.6
Beckman AU						
Beckman AU systems	31	3.97	0.13	3.2	4.0	3.3 - 4.6
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	19	3.84	0.15	3.8	3.9	3.2 - 4.5
Roche Integra						
Roche Integra	12	3.77	0.12	3.1	3.8	3.2 - 4.4
Siemens Healthcare						
Siemens Dimension	24	4.28	0.08	1.8	4.3	3.6 - 5.0
All Chemistry Instruments	25	4.28	0.07	1.7	4.3	3.6 - 5.0
VITROS - CREA						
VITROS 250,350,400 500,700,750,950	13	4.15	0.08	1.9	4.1	3.5 - 4.8
All Chemistry Instruments	19	4.11	0.09	2.2	4.1	3.4 - 4.8

Glucose (mg/dL)

Reagent/Instrument	Specimen CH-6						Specimen CH-7					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	183	74.1	4.2	5.6	74	66 - 82	182	115.6	5.1	4.4	115	104 - 128
All Alfa Wassermann Reagents	24	80.9	1.9	2.4	81	72 - 89	24	124.2	3.6	2.9	125	111 - 137
All Horiba Pentra Reagents	18	71.2	3.6	5.0	71	64 - 79	19	111.6	5.1	4.6	111	100 - 123
All Roche Reagents	24	73.6	2.0	2.7	73	66 - 81	24	115.5	2.3	2.0	115	103 - 128
Abaxis Piccolo												
Abaxis Piccolo - waived	15	76.1	1.8	2.4	76	68 - 84	15	115.3	1.9	1.7	115	103 - 127
All Chemistry Instruments	17	76.1	1.7	2.2	76	68 - 84	17	115.2	1.8	1.6	115	103 - 127
Alere Cholestech LDX												
Alere Cholestech LDX - waived	7	69.0	2.2	3.1	69	62 - 76	7	108.1	3.5	3.3	110	97 - 119
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	80.9	1.9	2.4	81	72 - 89	24	124.2	3.6	2.9	125	111 - 137
Beckman AU												
Beckman AU systems	30	74.7	1.9	2.6	75	67 - 83	30	116.7	3.0	2.6	116	105 - 129
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	71.2	3.6	5.0	71	64 - 79	19	111.6	5.1	4.6	111	100 - 123
Roche cobas c 501												
Roche cobas 6000 / c 501	9	72.3	1.8	2.5	72	65 - 80	9	114.2	1.5	1.3	114	102 - 126
Roche Integra												
Roche Integra	13	74.5	1.7	2.3	74	67 - 82	13	116.7	2.3	2.0	116	105 - 129
Siemens Healthcare												
Siemens Dimension	23	74.8	2.2	2.9	75	67 - 83	23	116.0	2.1	1.8	116	104 - 128
All Chemistry Instruments	24	74.7	2.3	3.1	75	67 - 83	24	115.8	2.3	2.0	116	104 - 128
VITROS												
VITROS 250,350,400 500,700,750,950	17	70.4	2.2	3.2	71	63 - 78	17	111.6	2.4	2.2	111	100 - 123
All Chemistry Instruments	24	70.0	2.7	3.9	71	63 - 78	24	110.9	3.3	3.0	111	99 - 123

Glucose (mg/dL)

Reagent/Instrument	Specimen CH-8						Specimen CH-9					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	162	177.2	6.9	3.9	176	159 - 195	164	157.0	6.5	4.2	156	141 - 173
All Alfa Wassermann Reagents	23	187.4	6.4	3.4	189	168 - 207	22	167.8	3.3	2.0	168	150 - 185
All Horiba Pentra Reagents	19	172.2	9.9	5.8	173	154 - 190	19	152.3	9.2	6.0	151	137 - 168
All Roche Reagents	24	177.0	4.2	2.4	176	159 - 195	24	156.4	3.3	2.1	156	140 - 173
Abaxis Piccolo												
Abaxis Piccolo - waived	5	173.8	1.8	1.0	174	156 - 192	5	153.8	2.6	1.7	153	138 - 170
All Chemistry Instruments	6	173.5	1.8	1.0	173	156 - 191	6	153.7	2.3	1.5	153	138 - 170
Alere Cholestech LDX												
Alere Cholestech LDX - waived	1	-	-	-	149	159 - 195	1	-	-	-	163	141 - 173
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	187.4	6.4	3.4	189	168 - 207	22	167.8	3.3	2.0	168	150 - 185
Beckman AU												
Beckman AU systems	30	178.3	5.0	2.8	178	160 - 197	30	157.8	4.2	2.6	157	141 - 174
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	172.2	9.9	5.8	173	154 - 190	19	152.3	9.2	6.0	151	137 - 168
Roche cobas c 501												
Roche cobas 6000 / c 501	9	174.8	3.3	1.9	174	157 - 193	9	154.4	2.3	1.5	154	138 - 170
Roche Integra												
Roche Integra	13	178.8	4.2	2.4	178	160 - 197	13	157.5	3.6	2.3	157	141 - 174
Siemens Healthcare												
Siemens Dimension	22	177.2	1.9	1.1	178	159 - 195	23	157.3	2.3	1.5	157	141 - 174
All Chemistry Instruments	24	177.3	3.0	1.7	178	159 - 195	23	157.3	2.3	1.5	157	141 - 174
VITROS												
VITROS 250,350,400 500,700,750,950	17	173.2	3.7	2.2	173	155 - 191	17	151.9	2.8	1.8	152	136 - 168
All Chemistry Instruments	24	172.2	4.5	2.6	173	154 - 190	24	151.0	4.0	2.7	151	135 - 167

Glucose (mg/dL)

Specimen CH-10

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	160	208.0	7.3	3.5	208	187 - 229
All Alfa Wassermann Reagents	23	220.0	5.6	2.6	220	197 - 242
All Horiba Pentra Reagents	18	200.7	10.1	5.0	202	180 - 221
All Roche Reagents	23	206.9	4.9	2.4	207	186 - 228
Abaxis Piccolo						
Abaxis Piccolo - waived	5	200.2	2.7	1.3	199	180 - 221
All Chemistry Instruments	6	200.5	2.5	1.3	201	180 - 221
Alere Cholestech LDX						
Alere Cholestech LDX - waived	1	-	-	-	235	187 - 229
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	23	220.0	5.6	2.6	220	197 - 242
Beckman AU						
Beckman AU systems	30	208.8	4.7	2.2	208	187 - 230
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	200.7	10.1	5.0	202	180 - 221
Roche cobas c 501						
Roche cobas 6000 / c 501	9	204.2	3.6	1.8	202	183 - 225
Roche Integra						
Roche Integra	12	209.2	4.9	2.4	209	188 - 231
Siemens Healthcare						
Siemens Dimension	22	207.4	2.3	1.1	207	186 - 229
All Chemistry Instruments	22	207.4	2.3	1.1	207	186 - 229
VITROS						
VITROS 250,350,400 500,700,750,950	17	206.8	3.5	1.7	207	186 - 228
All Chemistry Instruments	24	205.5	5.0	2.4	206	184 - 227

Iron (µg/dL)

Reagent/Instrument	Specimen CH-6						Specimen CH-7					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	70	52.3	3.5	6.7	52	41 - 63	70	92.3	5.1	5.5	93	73 - 111
All Roche Reagents	10	54.2	2.1	3.9	54	43 - 66	10	93.2	0.9	1.0	93	74 - 112
Beckman AU												
Beckman AU systems	19	55.4	2.3	4.1	56	44 - 67	18	98.4	2.0	2.0	98	78 - 119
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	50.6	3.7	7.4	49	40 - 61	8	89.3	4.1	4.6	88	71 - 108
Roche cobas c 501												
Roche cobas 6000 / c 501	6	54.8	2.2	4.1	55	43 - 66	6	93.3	0.5	0.6	93	74 - 112
Siemens Healthcare												
Siemens Dimension	15	50.9	1.8	3.6	51	40 - 62	15	88.7	2.0	2.2	89	70 - 107
VITROS												
All Chemistry Instruments	8	49.0	4.0	8.2	49	39 - 59	8	93.6	4.2	4.5	95	74 - 113

Reagent/Instrument	Specimen CH-8						Specimen CH-9					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	70	153.1	9.3	6.1	152	122 - 184	70	132.7	7.7	5.8	132	106 - 160
All Roche Reagents	10	152.4	1.6	1.1	152	121 - 183	10	133.4	1.5	1.1	134	106 - 161
Beckman AU												
Beckman AU systems	18	164.1	2.4	1.5	164	131 - 197	19	141.4	3.9	2.8	142	113 - 170
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	146.4	5.4	3.7	147	117 - 176	8	126.9	4.5	3.6	125	101 - 153
Roche cobas c 501												
Roche cobas 6000 / c 501	6	152.0	0.1	0.0	152	121 - 183	6	133.0	1.4	1.1	133	106 - 160
Siemens Healthcare												
Siemens Dimension	15	144.4	2.6	1.8	144	115 - 174	15	125.5	2.5	2.0	126	100 - 151
VITROS												
All Chemistry Instruments	8	161.6	6.5	4.0	162	129 - 194	8	137.5	5.3	3.8	137	110 - 165

Iron (µg/dL)

Specimen CH-10

All Method	70	183.4	12.0	6.5	183	146 - 221
All Roche Reagents	10	182.6	2.0	1.1	184	146 - 220
Beckman AU						
Beckman AU systems	18	197.3	2.8	1.4	197	157 - 237
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	8	172.5	7.1	4.1	172	138 - 207
Roche cobas c 501						
Roche cobas 6000 / c 501	6	182.5	1.9	1.0	183	146 - 219
Siemens Healthcare						
Siemens Dimension	15	172.3	2.6	1.5	172	137 - 207
VITROS						
All Chemistry Instruments	8	195.6	8.1	4.1	194	156 - 235

Lactate (Lactic Acid) (mmol/L)

		Specimen CH-6						Specimen CH-7				
Method	**Labs**	**Mean**	**SD**	**CV**	**Median**	**Range**	**Labs**	**Mean**	**SD**	**CV**	**Median**	**Range**
All Method	6	1.03	0.08	7.9	1.1	0.6 - 1.5	6	2.45	0.10	4.3	2.5	2.0 - 2.9
Siemens Healthcare												
Siemens Dimension	4	1.05	0.10	9.5	1.1	0.6 - 1.5	4	2.45	0.13	5.3	2.5	2.0 - 2.9

		Specimen CH-8						Specimen CH-9				
	Labs	**Mean**	**SD**	**CV**	**Median**	**Range**	**Labs**	**Mean**	**SD**	**CV**	**Median**	**Range**
All Method	6	4.50	0.13	2.8	4.5	4.1 - 4.9	6	3.80	0.06	1.7	3.8	3.4 - 4.2
Siemens Healthcare												
Siemens Dimension	4	4.50	0.14	3.1	4.5	4.0 - 5.0	4	3.80	0.08	2.1	3.8	3.4 - 4.2

		Specimen CH-10				
	Labs	**Mean**	**SD**	**CV**	**Median**	**Range**
All Method	6	5.63	0.08	1.4	5.7	5.2 - 6.1
Siemens Healthcare						
Siemens Dimension	4	5.68	0.05	0.9	5.7	5.2 - 6.1

Magnesium (mg/dL)

		Specimen CH-6						Specimen CH-7				
Reagent/Instrument	**Labs**	**Mean**	**SD**	**CV**	**Median**	**Range**	**Labs**	**Mean**	**SD**	**CV**	**Median**	**Range**
All Method	92	1.75	0.11	6.1	1.7	1.3 - 2.2	93	2.43	0.18	7.2	2.4	1.8 - 3.1
All Horiba Pentra Reagents	17	1.66	0.11	6.4	1.7	1.2 - 2.1	17	2.28	0.14	6.3	2.3	1.7 - 2.9
All Roche Reagents	18	1.73	0.05	2.7	1.7	1.2 - 2.2	18	2.40	0.07	2.9	2.4	1.8 - 3.0
Beckman AU												
Beckman AU systems	18	1.72	0.04	2.5	1.7	1.2 - 2.2	18	2.43	0.06	2.4	2.4	1.8 - 3.1
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	1.66	0.11	6.4	1.7	1.2 - 2.1	17	2.28	0.14	6.3	2.3	1.7 - 2.9
Roche Integra												
Roche Integra	10	1.73	0.05	2.8	1.7	1.2 - 2.2	10	2.38	0.06	2.7	2.4	1.7 - 3.0
Siemens Healthcare												
Siemens Dimension	15	1.78	0.09	4.8	1.8	1.3 - 2.3	15	2.53	0.08	3.2	2.5	1.8 - 3.2
VITROS												
All Chemistry Instruments	11	1.90	0.06	3.3	1.9	1.4 - 2.4	11	2.71	0.08	3.1	2.7	2.0 - 3.4

Magnesium (mg/dL)

Specimen CH-8 / Specimen CH-9

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	93	3.47	0.24	6.8	3.5	2.6 - 4.4	91	3.13	0.22	6.9	3.1	2.3 - 4.0
All Horiba Pentra Reagents	17	3.25	0.17	5.1	3.3	2.4 - 4.1	17	2.93	0.18	6.0	2.9	2.1 - 3.7
All Roche Reagents	17	3.38	0.06	1.7	3.4	2.5 - 4.3	18	3.07	0.09	2.9	3.1	2.3 - 3.9
Beckman AU												
Beckman AU systems	18	3.48	0.08	2.3	3.5	2.6 - 4.4	18	3.11	0.06	2.1	3.1	2.3 - 3.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	3.25	0.17	5.1	3.3	2.4 - 4.1	17	2.93	0.18	6.0	2.9	2.1 - 3.7
Roche Integra												
Roche Integra	10	3.37	0.07	2.0	3.4	2.5 - 4.3	10	3.04	0.08	2.8	3.0	2.2 - 3.8
Siemens Healthcare												
Siemens Dimension	15	3.61	0.12	3.4	3.6	2.7 - 4.6	15	3.23	0.15	4.8	3.2	2.4 - 4.1
VITROS												
All Chemistry Instruments	11	3.84	0.09	2.4	3.8	2.8 - 4.8	11	3.48	0.08	2.2	3.5	2.6 - 4.4

Specimen CH-10

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	90	3.98	0.24	6.1	4.0	2.9 - 5.0
All Horiba Pentra Reagents	17	3.69	0.16	4.4	3.8	2.7 - 4.7
All Roche Reagents	17	3.92	0.11	2.9	3.9	2.9 - 5.0
Beckman AU						
Beckman AU systems	18	4.00	0.08	2.1	4.0	3.0 - 5.0
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	3.69	0.16	4.4	3.8	2.7 - 4.7
Roche Integra						
Roche Integra	9	-	-	-	3.9	2.9 - 5.0
Siemens Healthcare						
Siemens Dimension	15	4.14	0.14	3.3	4.1	3.1 - 5.2
VITROS						
All Chemistry Instruments	11	4.38	0.09	2.0	4.4	3.2 - 5.5

Phosphorus (mg/dL)

		Specimen CH-6						Specimen CH-7				
Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	66	2.09	0.13	6.4	2.1	1.7 - 2.4	65	2.88	0.15	5.1	2.9	2.5 - 3.2
All Roche Reagents	14	2.02	0.09	4.4	2.0	1.7 - 2.4	14	2.79	0.08	2.8	2.8	2.4 - 3.1
Beckman AU												
Beckman AU systems	14	2.01	0.11	5.5	2.0	1.7 - 2.4	14	2.87	0.20	6.9	2.8	2.5 - 3.2
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	2.19	0.06	2.9	2.2	1.8 - 2.5	8	3.01	0.17	5.7	3.1	2.7 - 3.4
Roche cobas c 501												
Roche cobas 6000 / c 501	5	2.10	0.10	4.8	2.1	1.8 - 2.4	5	2.80	0.10	3.6	2.8	2.5 - 3.1
Roche Integra												
Roche Integra	8	1.98	0.05	2.3	2.0	1.6 - 2.3	8	2.79	0.06	2.3	2.8	2.4 - 3.1
Siemens Healthcare												
Siemens Dimension	12	2.12	0.09	4.4	2.1	1.8 - 2.5	12	2.92	0.07	2.5	2.9	2.6 - 3.3
VITROS												
VITROS 250,350,400 500,700,750,950	6	2.25	0.15	6.7	2.3	1.9 - 2.6	6	3.00	0.18	6.0	3.1	2.7 - 3.3
All Chemistry Instruments	10	2.26	0.13	5.6	2.3	1.9 - 2.6	10	3.00	0.14	4.7	3.0	2.7 - 3.3

		Specimen CH-8						Specimen CH-9				
All Method	66	4.06	0.19	4.8	4.1	3.6 - 4.5	66	3.67	0.17	4.6	3.7	3.3 - 4.1
All Roche Reagents	14	3.95	0.15	3.7	3.9	3.5 - 4.4	14	3.56	0.11	3.1	3.6	3.2 - 4.0
Beckman AU												
Beckman AU systems	14	3.99	0.19	4.7	4.0	3.5 - 4.4	14	3.64	0.19	5.2	3.7	3.2 - 4.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	4.25	0.11	2.5	4.2	3.8 - 4.7	8	3.86	0.15	3.9	3.8	3.4 - 4.3
Roche cobas c 501												
Roche cobas 6000 / c 501	5	4.04	0.18	4.5	4.1	3.6 - 4.5	5	3.62	0.13	3.6	3.6	3.2 - 4.0
Roche Integra												
Roche Integra	8	3.91	0.10	2.5	3.9	3.5 - 4.4	8	3.54	0.07	2.1	3.6	3.1 - 3.9
Siemens Healthcare												
Siemens Dimension	12	4.20	0.17	3.9	4.2	3.7 - 4.7	12	3.75	0.08	2.1	3.8	3.3 - 4.2
VITROS												
VITROS 250,350,400 500,700,750,950	6	4.10	0.14	3.4	4.1	3.6 - 4.6	6	3.75	0.14	3.7	3.8	3.3 - 4.2
All Chemistry Instruments	10	4.07	0.15	3.7	4.1	3.6 - 4.5	10	3.72	0.13	3.5	3.8	3.3 - 4.1

Phosphorus (mg/dL)

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Specimen CH-10

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Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	65	4.64	0.20	4.3	4.7	4.1 - 5.2
All Roche Reagents	13	4.53	0.13	2.9	4.5	4.0 - 5.0
Beckman AU						
Beckman AU systems	14	4.61	0.19	4.2	4.6	4.1 - 5.1
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	8	4.91	0.16	3.2	4.9	4.4 - 5.5
Roche cobas c 501						
Roche cobas 6000 / c 501	5	4.62	0.16	3.6	4.7	4.1 - 5.1
Roche Integra						
Roche Integra	7	4.49	0.07	1.5	4.5	4.0 - 5.0
Siemens Healthcare						
Siemens Dimension	12	4.72	0.08	1.8	4.7	4.2 - 5.2
VITROS						
VITROS 250,350,400 500,700,750,950	6	4.63	0.15	3.2	4.7	4.1 - 5.1
All Chemistry Instruments	10	4.60	0.16	3.4	4.7	4.1 - 5.1

Protein, Total (g/dL)

Reagent/Instrument	Specimen CH-6						Specimen CH-7				
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	172	3.29	0.13	3.9	3.3	2.9 - 3.7	172	4.53	0.16	3.6	4.5	4.0 - 5.0
All Alfa Wassermann Reagents	22	3.31	0.09	2.8	3.3	2.9 - 3.7	22	4.59	0.17	3.6	4.6	4.1 - 5.1
All Horiba Pentra Reagents	19	3.32	0.13	3.8	3.3	2.9 - 3.7	19	4.55	0.15	3.2	4.5	4.0 - 5.1
All Roche Reagents	24	3.21	0.12	3.7	3.2	2.8 - 3.6	24	4.43	0.15	3.3	4.4	3.9 - 4.9
Abaxis Piccolo												
Abaxis Piccolo - waived	15	3.42	0.09	2.5	3.4	3.0 - 3.8	15	4.59	0.08	1.7	4.6	4.1 - 5.1
All Chemistry Instruments	17	3.42	0.09	2.6	3.4	3.0 - 3.8	17	4.58	0.08	1.8	4.6	4.1 - 5.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	3.31	0.09	2.8	3.3	2.9 - 3.7	22	4.59	0.17	3.6	4.6	4.1 - 5.1
Beckman AU												
Beckman AU systems	30	3.19	0.09	2.8	3.2	2.8 - 3.6	30	4.44	0.10	2.3	4.5	3.9 - 4.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	3.32	0.13	3.8	3.3	2.9 - 3.7	19	4.55	0.15	3.2	4.5	4.0 - 5.1
Roche Integra												
Roche Integra	13	3.14	0.09	2.8	3.1	2.8 - 3.5	13	4.33	0.09	2.2	4.3	3.8 - 4.8
Siemens Healthcare												
Siemens Dimension	24	3.41	0.11	3.2	3.4	3.0 - 3.8	24	4.73	0.10	2.2	4.7	4.2 - 5.3
VITROS												
VITROS 250,350,400 500,700,750,950	17	3.28	0.10	3.1	3.3	2.9 - 3.7	17	4.46	0.09	2.1	4.5	4.0 - 5.0
All Chemistry Instruments	23	3.29	0.11	3.4	3.3	2.9 - 3.7	23	4.47	0.12	2.8	4.5	4.0 - 5.0

Protein, Total (g/dL)

Reagent/Instrument	Specimen CH-8						Specimen CH-9					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	161	6.34	0.24	3.9	6.3	5.7 - 7.0	162	5.74	0.23	4.0	5.7	5.1 - 6.4
All Alfa Wassermann Reagents	21	6.55	0.16	2.4	6.5	5.8 - 7.3	22	5.92	0.21	3.5	5.9	5.3 - 6.6
All Horiba Pentra Reagents	19	6.34	0.20	3.1	6.3	5.7 - 7.0	19	5.78	0.24	4.2	5.8	5.2 - 6.4
All Roche Reagents	24	6.23	0.20	3.2	6.2	5.6 - 6.9	24	5.63	0.20	3.5	5.6	5.0 - 6.2
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	6.3	5.7 - 7.0	5	-	-	-	5.6	5.1 - 6.4
All Chemistry Instruments	6	-	-	-	6.4	5.6 - 7.0	6	-	-	-	5.7	5.1 - 6.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	6.55	0.16	2.4	6.5	5.8 - 7.3	22	5.92	0.21	3.5	5.9	5.3 - 6.6
Beckman AU												
Beckman AU systems	30	6.24	0.16	2.5	6.3	5.6 - 6.9	30	5.65	0.14	2.4	5.7	5.0 - 6.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	6.34	0.20	3.1	6.3	5.7 - 7.0	19	5.78	0.24	4.2	5.8	5.2 - 6.4
Roche Integra												
Roche Integra	13	6.09	0.13	2.1	6.1	5.4 - 6.8	13	5.51	0.13	2.4	5.5	4.9 - 6.1
Siemens Healthcare												
Siemens Dimension	24	6.64	0.14	2.1	6.6	5.9 - 7.4	23	5.98	0.09	1.6	6.0	5.3 - 6.6
VITROS												
VITROS 250,350,400 500,700,750,950	17	6.10	0.14	2.3	6.1	5.4 - 6.8	17	5.55	0.12	2.2	5.6	4.9 - 6.2
All Chemistry Instruments	23	6.10	0.16	2.7	6.1	5.4 - 6.8	23	5.56	0.15	2.7	5.6	5.0 - 6.2

Protein, Total (g/dL)

Specimen CH-10

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	160	7.23	0.30	4.2	7.2	6.5 - 8.0
All Alfa Wassermann Reagents	21	7.49	0.19	2.6	7.5	6.7 - 8.3
All Horiba Pentra Reagents	19	7.28	0.30	4.1	7.3	6.5 - 8.1
All Roche Reagents	23	7.08	0.23	3.2	7.1	6.3 - 7.8
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	7.2	6.5 - 8.0
All Chemistry Instruments	6	-	-	-	7.2	6.5 - 8.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	7.49	0.19	2.6	7.5	6.7 - 8.3
Beckman AU						
Beckman AU systems	30	7.13	0.18	2.5	7.2	6.4 - 7.9
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	19	7.28	0.30	4.1	7.3	6.5 - 8.1
Roche Integra						
Roche Integra	12	6.94	0.15	2.2	6.9	6.2 - 7.7
Siemens Healthcare						
Siemens Dimension	24	7.59	0.17	2.2	7.6	6.8 - 8.4
VITROS						
VITROS 250,350,400 500,700,750,950	17	6.90	0.16	2.3	6.9	6.2 - 7.6
All Chemistry Instruments	23	6.90	0.17	2.4	6.9	6.2 - 7.6

Urea Nitrogen (mg/dL)

Reagent/Instrument		Specimen CH-6						Specimen CH-7				
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	176	10.4	0.9	8.7	11	8 - 13	175	18.1	1.2	6.9	18	16 - 21
All Alfa Wassermann Reagents	23	10.7	0.4	4.2	11	8 - 13	22	18.5	0.6	3.2	18	16 - 21
All Horiba Pentra Reagents	18	9.6	0.7	7.4	10	7 - 12	19	17.1	1.1	6.3	17	15 - 20
All Roche Reagents	24	10.3	0.5	4.7	10	8 - 13	24	18.1	0.5	2.8	18	16 - 21
Abaxis Piccolo												
Abaxis Piccolo - waived	15	10.3	0.5	4.5	10	8 - 13	15	17.7	0.5	2.8	18	15 - 20
All Chemistry Instruments	17	10.4	0.5	4.8	10	8 - 13	17	17.6	0.5	2.8	18	15 - 20
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	10.7	0.4	4.2	11	8 - 13	22	18.5	0.6	3.2	18	16 - 21
Beckman AU												
Beckman AU systems	29	11.0	0.4	3.8	11	9 - 14	29	18.9	0.7	3.7	19	16 - 21
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	9.6	0.7	7.4	10	7 - 12	19	17.1	1.1	6.3	17	15 - 20
Roche Integra												
Roche Integra	13	10.5	0.5	5.0	10	8 - 13	13	18.2	0.6	3.1	18	16 - 21
Siemens Healthcare												
Siemens Dimension	23	11.2	0.4	3.5	11	9 - 14	24	19.2	0.6	2.9	19	17 - 22
All Chemistry Instruments	24	11.2	0.4	3.4	11	9 - 14	25	19.1	0.6	3.1	19	17 - 22
VITROS												
VITROS 250,350,400 500,700,750,950	17	9.1	0.5	5.3	9	7 - 12	17	16.3	0.7	4.2	16	14 - 19
All Chemistry Instruments	24	9.1	0.4	4.5	9	7 - 12	24	16.2	0.6	3.6	16	14 - 19

Urea Nitrogen (mg/dL)

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-8							Specimen CH-9		
All Method	164	29.6	1.9	6.4	30	26 - 33	165	25.8	1.8	6.9	26	23 - 29
All Alfa Wassermann Reagents	22	30.1	1.2	4.1	30	27 - 33	23	26.6	1.3	4.9	26	24 - 30
All Horiba Pentra Reagents	19	28.4	1.4	5.0	28	25 - 31	19	24.3	1.2	5.1	24	22 - 27
All Roche Reagents	23	29.7	0.8	2.7	30	27 - 33	24	26.0	0.9	3.4	26	23 - 29
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	29	26 - 33	5	-	-	-	25	23 - 29
All Chemistry Instruments	6	-	-	-	29	26 - 32	6	-	-	-	25	22 - 28
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	30.1	1.2	4.1	30	27 - 33	23	26.6	1.3	4.9	26	24 - 30
Beckman AU												
Beckman AU systems	29	30.9	1.1	3.4	31	28 - 34	29	26.8	1.0	3.7	27	24 - 30
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	28.4	1.4	5.0	28	25 - 31	19	24.3	1.2	5.1	24	22 - 27
Roche Integra												
Roche Integra	13	30.0	1.2	3.8	30	27 - 33	13	26.0	0.9	3.5	26	23 - 29
Siemens Healthcare												
Siemens Dimension	24	31.3	0.7	2.2	31	28 - 35	24	27.3	0.7	2.7	27	24 - 30
All Chemistry Instruments	25	31.3	0.7	2.2	31	28 - 35	25	27.2	0.7	2.7	27	24 - 30
VITROS												
VITROS 250,350,400 500,700,750,950	17	26.7	0.8	3.2	27	24 - 30	17	23.2	0.8	3.2	23	21 - 26
All Chemistry Instruments	24	26.5	0.8	2.9	26	24 - 29	24	23.1	0.7	2.9	23	21 - 26

Urea Nitrogen (mg/dL)

Specimen CH-10

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	162	35.4	2.2	6.4	36	32 - 39
All Alfa Wassermann Reagents	22	36.1	1.4	3.9	36	32 - 40
All Horiba Pentra Reagents	19	33.7	1.6	4.6	34	30 - 37
All Roche Reagents	22	35.7	1.0	2.9	36	32 - 39
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	34	32 - 39
All Chemistry Instruments	6	-	-	-	34	31 - 38
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	22	36.1	1.4	3.9	36	32 - 40
Beckman AU						
Beckman AU systems	29	36.8	1.4	3.7	36	33 - 41
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	19	33.7	1.6	4.6	34	30 - 37
Roche Integra						
Roche Integra	12	36.1	1.1	3.0	36	32 - 40
Siemens Healthcare						
Siemens Dimension	24	37.3	0.9	2.4	37	33 - 41
All Chemistry Instruments	25	37.3	0.9	2.4	37	33 - 41
VITROS						
VITROS 250,350,400 500,700,750,950	17	32.2	1.0	3.0	32	29 - 36
All Chemistry Instruments	24	32.0	0.9	2.9	32	29 - 35

Uric Acid (mg/dL)

		Specimen CH-6						Specimen CH-7				
Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	108	2.89	0.25	8.6	2.8	2.3 - 3.4	110	4.80	0.19	4.0	4.8	3.9 - 5.7
All Alfa Wassermann Reagents	13	3.58	0.19	5.2	3.6	2.9 - 4.2	13	5.00	0.17	3.5	5.0	4.1 - 5.9
All Roche Reagents	20	2.75	0.08	2.8	2.8	2.2 - 3.3	20	4.71	0.15	3.1	4.8	3.9 - 5.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	13	3.58	0.19	5.2	3.6	2.9 - 4.2	13	5.00	0.17	3.5	5.0	4.1 - 5.9
Beckman AU												
Beckman AU systems	21	2.95	0.12	4.0	2.9	2.4 - 3.5	21	4.89	0.11	2.2	4.9	4.0 - 5.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	2.77	0.09	3.2	2.8	2.2 - 3.3	12	4.73	0.12	2.6	4.7	3.9 - 5.6
Roche Integra												
Roche Integra	10	2.80	0.05	1.7	2.8	2.3 - 3.3	10	4.81	0.06	1.2	4.8	3.9 - 5.7
Siemens Healthcare												
Siemens Dimension	18	2.78	0.08	2.9	2.8	2.3 - 3.3	18	4.64	0.10	2.1	4.7	3.8 - 5.5
All Chemistry Instruments	19	2.79	0.09	3.4	2.8	2.3 - 3.3	19	4.65	0.11	2.4	4.7	3.8 - 5.5
VITROS												
All Chemistry Instruments	13	2.78	0.07	2.6	2.8	2.3 - 3.3	13	4.72	0.11	2.4	4.7	3.9 - 5.6

		Specimen CH-8						Specimen CH-9				
All Method	111	7.59	0.32	4.2	7.6	6.3 - 8.9	112	6.66	0.30	4.5	6.7	5.5 - 7.8
All Alfa Wassermann Reagents	13	7.47	0.52	7.0	7.4	6.1 - 8.8	13	6.62	0.37	5.5	6.5	5.4 - 7.8
All Roche Reagents	20	7.59	0.20	2.7	7.6	6.2 - 8.9	20	6.64	0.19	2.9	6.7	5.5 - 7.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	13	7.47	0.52	7.0	7.4	6.1 - 8.8	13	6.62	0.37	5.5	6.5	5.4 - 7.8
Beckman AU												
Beckman AU systems	21	7.75	0.17	2.1	7.8	6.4 - 9.1	21	6.83	0.11	1.5	6.8	5.6 - 8.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	7.56	0.16	2.1	7.5	6.2 - 8.9	12	6.63	0.19	2.9	6.6	5.4 - 7.8
Roche Integra												
Roche Integra	10	7.74	0.11	1.4	7.7	6.4 - 9.1	10	6.79	0.07	1.1	6.8	5.6 - 8.0
Siemens Healthcare												
Siemens Dimension	18	7.39	0.16	2.2	7.4	6.1 - 8.7	18	6.44	0.18	2.8	6.5	5.3 - 7.6
All Chemistry Instruments	19	7.41	0.19	2.5	7.4	6.1 - 8.7	19	6.47	0.22	3.3	6.5	5.3 - 7.6
VITROS												
All Chemistry Instruments	13	7.62	0.19	2.5	7.6	6.3 - 9.0	13	6.64	0.16	2.3	6.6	5.5 - 7.8

Uric Acid (mg/dL)

Specimen CH-10

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	108	9.01	0.35	3.9	9.0	7.4 - 10.6
All Alfa Wassermann Reagents	13	8.50	0.68	8.0	8.6	7.0 - 10.0
All Roche Reagents	19	8.96	0.24	2.6	9.0	7.4 - 10.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	13	8.50	0.68	8.0	8.6	7.0 - 10.0
Beckman AU						
Beckman AU systems	21	9.21	0.18	1.9	9.2	7.6 - 10.8
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	12	8.92	0.17	2.0	8.9	7.4 - 10.5
Roche Integra						
Roche Integra	9	-	-	-	9.1	7.4 - 10.5
Siemens Healthcare						
Siemens Dimension	18	8.82	0.20	2.3	8.9	7.3 - 10.4
All Chemistry Instruments	19	8.85	0.25	2.9	8.9	7.3 - 10.4
VITROS						
All Chemistry Instruments	13	9.05	0.17	1.9	9.0	7.5 - 10.6

Chloride (mmol/L)

Method/Instrument		Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
				Specimen CH-6							**Specimen CH-7**		
All Method		171	91.8	2.5	2.7	92	87 - 97	171	97.6	2.6	2.7	97	92 - 103
Abaxis Piccolo													
	Abaxis Piccolo - waived	15	96.7	2.7	2.8	97	91 - 102	14	102.6	0.9	0.9	103	97 - 108
	All Chemistry Instruments	17	96.6	2.5	2.6	97	91 - 102	16	102.2	1.4	1.3	103	97 - 108
ISE Diluted													
	Beckman AU systems	29	91.2	0.9	1.0	91	86 - 96	28	96.3	0.8	0.8	96	91 - 102
	Roche Integra	13	93.4	2.0	2.1	93	88 - 99	13	100.2	3.0	3.0	100	95 - 106
	Siemens Dimension QuickLyte - Xpand/EXL	19	91.9	1.7	1.8	92	87 - 97	18	99.5	1.2	1.2	100	94 - 105
	All Chemistry Instruments	85	91.7	1.8	2.0	92	87 - 97	85	97.8	2.3	2.4	97	92 - 103
ISE Undiluted													
	Alfa Wassermann ACE Alera/Axcel	22	91.1	1.3	1.4	91	86 - 96	22	96.7	1.4	1.4	97	91 - 102
	Horiba ABX Pentra 400 / C400	16	90.0	1.8	2.0	90	85 - 95	17	95.8	3.4	3.6	96	91 - 101
	All Chemistry Instruments	45	90.6	1.6	1.8	91	86 - 96	45	96.5	2.0	2.1	97	91 - 102
VITROS													
	VITROS 250,350,400 500,700,750,950	17	91.2	1.1	1.3	92	86 - 96	17	96.4	1.3	1.4	97	91 - 102
	All Chemistry Instruments	23	91.2	1.2	1.3	92	86 - 96	24	96.3	1.3	1.3	96	91 - 102
				Specimen CH-8							**Specimen CH-9**		
All Method		160	106.3	3.3	3.1	105	100 - 112	160	103.3	3.0	2.9	103	98 - 109
Abaxis Piccolo													
	Abaxis Piccolo - waived	5	-	-	-	109	103 - 115	5	-	-	-	106	100 - 111
	All Chemistry Instruments	6	-	-	-	109	103 - 115	6	-	-	-	106	100 - 111
ISE Diluted													
	Beckman AU systems	29	103.8	1.0	1.0	104	98 - 109	29	101.1	1.0	1.0	101	96 - 107
	Roche Integra	13	110.3	4.2	3.8	109	104 - 116	13	107.3	4.0	3.7	107	101 - 113
	Siemens Dimension QuickLyte - Xpand/EXL	18	110.1	1.2	1.1	110	104 - 116	18	106.4	1.0	0.9	107	101 - 112
	All Chemistry Instruments	86	106.8	3.8	3.6	105	101 - 113	85	103.6	3.2	3.1	102	98 - 109
ISE Undiluted													
	Alfa Wassermann ACE Alera/Axcel	22	107.3	1.6	1.5	107	101 - 113	22	103.9	1.5	1.4	104	98 - 110
	Horiba ABX Pentra 400 / C400	17	106.3	5.2	4.9	107	100 - 112	17	103.2	4.6	4.5	104	98 - 109
	All Chemistry Instruments	46	106.6	3.4	3.2	107	101 - 112	45	103.6	2.7	2.6	104	98 - 109
VITROS													
	VITROS 250,350,400 500,700,750,950	17	104.1	1.2	1.2	104	98 - 110	17	101.3	1.2	1.2	101	96 - 107
	All Chemistry Instruments	24	103.9	1.1	1.1	104	98 - 110	24	101.2	1.1	1.1	101	96 - 107

Chloride (mmol/L)

Specimen CH-10

Method/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	156	110.7	3.9	3.5	110	105 - 117
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	113	106 - 118
All Chemistry Instruments	6	-	-	-	112	106 - 118
ISE Diluted						
Beckman AU systems	29	107.3	1.0	1.0	107	101 - 113
Roche Integra	10	114.3	3.7	3.2	114	108 - 121
Siemens Dimension QuickLyte - Xpand/EXL	18	115.3	1.2	1.1	116	109 - 122
All Chemistry Instruments	82	110.8	4.1	3.7	109	105 - 117
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	22	112.1	3.1	2.8	113	106 - 118
Horiba ABX Pentra 400 / C400	15	112.1	5.2	4.6	113	106 - 118
All Chemistry Instruments	44	111.8	3.9	3.5	113	106 - 118
VITROS						
VITROS 250,350,400 500,700,750,950	17	108.1	1.4	1.3	108	102 - 114
All Chemistry Instruments	24	107.9	1.3	1.2	108	102 - 114

CO$_2$ (mmol/L)

<table>
<tr><td></td><td colspan="6" align="center">Specimen CH-6</td><td colspan="6" align="center">Specimen CH-7</td></tr>
<tr><td>*Method/Instrument*</td><td>*Labs*</td><td>*Mean*</td><td>*SD*</td><td>*CV*</td><td>*Median*</td><td>*Range*</td><td>*Labs*</td><td>*Mean*</td><td>*SD*</td><td>*CV*</td><td>*Median*</td><td>*Range*</td></tr>
<tr><td>All Method</td><td>167</td><td>21.1</td><td>1.8</td><td>8.4</td><td>21</td><td>16 - 26</td><td>167</td><td>25.4</td><td>2.2</td><td>8.7</td><td>25</td><td>20 - 31</td></tr>
<tr><td>Abaxis Piccolo</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td> Abaxis Piccolo - waived</td><td>14</td><td>21.8</td><td>0.8</td><td>3.7</td><td>22</td><td>17 - 27</td><td>14</td><td>26.0</td><td>1.5</td><td>5.8</td><td>26</td><td>20 - 32</td></tr>
<tr><td> All Chemistry Instruments</td><td>16</td><td>21.8</td><td>0.7</td><td>3.4</td><td>22</td><td>17 - 27</td><td>16</td><td>26.1</td><td>1.5</td><td>5.9</td><td>26</td><td>20 - 32</td></tr>
<tr><td>Enzymatic Reagent</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td> Alfa Wassermann ACE Alera/Axcel</td><td>12</td><td>20.7</td><td>1.9</td><td>9.3</td><td>21</td><td>16 - 25</td><td>12</td><td>25.1</td><td>3.0</td><td>11.8</td><td>25</td><td>20 - 31</td></tr>
<tr><td> Beckman AU systems</td><td>26</td><td>21.5</td><td>1.1</td><td>5.3</td><td>22</td><td>17 - 26</td><td>25</td><td>26.2</td><td>1.1</td><td>4.0</td><td>26</td><td>20 - 32</td></tr>
<tr><td> Horiba ABX Pentra 400 / C400</td><td>15</td><td>21.1</td><td>1.6</td><td>7.6</td><td>21</td><td>16 - 26</td><td>15</td><td>25.5</td><td>2.3</td><td>9.1</td><td>25</td><td>20 - 31</td></tr>
<tr><td> Roche Integra</td><td>12</td><td>20.5</td><td>1.3</td><td>6.4</td><td>21</td><td>16 - 25</td><td>12</td><td>24.4</td><td>1.4</td><td>5.9</td><td>24</td><td>19 - 30</td></tr>
<tr><td> Siemens Dimension</td><td>19</td><td>22.8</td><td>2.0</td><td>8.5</td><td>23</td><td>18 - 28</td><td>19</td><td>27.4</td><td>2.2</td><td>8.1</td><td>28</td><td>21 - 33</td></tr>
<tr><td> All Chemistry Instruments</td><td>100</td><td>21.4</td><td>1.7</td><td>8.0</td><td>21</td><td>17 - 26</td><td>99</td><td>25.8</td><td>2.1</td><td>8.2</td><td>26</td><td>20 - 31</td></tr>
<tr><td>ISE Diluted</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td> All Chemistry Instruments</td><td>10</td><td>20.6</td><td>2.4</td><td>11.7</td><td>20</td><td>16 - 25</td><td>10</td><td>25.0</td><td>2.3</td><td>9.2</td><td>24</td><td>20 - 30</td></tr>
<tr><td>ISE Undiluted</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td> All Chemistry Instruments</td><td>16</td><td>20.0</td><td>2.3</td><td>11.5</td><td>21</td><td>16 - 24</td><td>16</td><td>24.4</td><td>3.1</td><td>12.8</td><td>25</td><td>19 - 30</td></tr>
<tr><td>VITROS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td> VITROS 250,350,400 500,700,750,950</td><td>17</td><td>20.6</td><td>1.5</td><td>7.1</td><td>21</td><td>16 - 25</td><td>17</td><td>24.5</td><td>1.4</td><td>5.6</td><td>25</td><td>19 - 30</td></tr>
<tr><td> All Chemistry Instruments</td><td>24</td><td>20.4</td><td>1.3</td><td>6.4</td><td>21</td><td>16 - 25</td><td>24</td><td>24.5</td><td>1.3</td><td>5.1</td><td>25</td><td>19 - 30</td></tr>
</table>

<table>
<tr><td></td><td colspan="6" align="center">Specimen CH-8</td><td colspan="6" align="center">Specimen CH-9</td></tr>
<tr><td>All Method</td><td>155</td><td>31.9</td><td>2.4</td><td>7.6</td><td>32</td><td>25 - 39</td><td>156</td><td>29.3</td><td>2.3</td><td>7.9</td><td>30</td><td>23 - 36</td></tr>
<tr><td>Abaxis Piccolo</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td> Abaxis Piccolo - waived</td><td>5</td><td>-</td><td>-</td><td>-</td><td>33</td><td>25 - 39</td><td>5</td><td>-</td><td>-</td><td>-</td><td>31</td><td>24 - 37</td></tr>
<tr><td> All Chemistry Instruments</td><td>6</td><td>-</td><td>-</td><td>-</td><td>33</td><td>26 - 39</td><td>6</td><td>-</td><td>-</td><td>-</td><td>31</td><td>24 - 37</td></tr>
<tr><td>Enzymatic Reagent</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td> Alfa Wassermann ACE Alera/Axcel</td><td>12</td><td>32.3</td><td>3.4</td><td>10.6</td><td>33</td><td>25 - 39</td><td>12</td><td>29.0</td><td>3.3</td><td>11.4</td><td>30</td><td>23 - 35</td></tr>
<tr><td> Beckman AU systems</td><td>26</td><td>32.9</td><td>1.9</td><td>5.7</td><td>34</td><td>26 - 40</td><td>25</td><td>30.4</td><td>1.3</td><td>4.2</td><td>31</td><td>24 - 37</td></tr>
<tr><td> Horiba ABX Pentra 400 / C400</td><td>15</td><td>31.4</td><td>2.1</td><td>6.7</td><td>31</td><td>25 - 38</td><td>15</td><td>29.1</td><td>2.0</td><td>6.9</td><td>29</td><td>23 - 35</td></tr>
<tr><td> Roche Integra</td><td>12</td><td>30.1</td><td>1.4</td><td>4.8</td><td>31</td><td>24 - 37</td><td>12</td><td>27.7</td><td>1.4</td><td>5.0</td><td>28</td><td>22 - 34</td></tr>
<tr><td> Siemens Dimension</td><td>19</td><td>33.6</td><td>2.0</td><td>5.9</td><td>34</td><td>26 - 41</td><td>19</td><td>30.9</td><td>1.7</td><td>5.4</td><td>32</td><td>24 - 38</td></tr>
<tr><td> All Chemistry Instruments</td><td>99</td><td>32.2</td><td>2.4</td><td>7.5</td><td>32</td><td>25 - 39</td><td>99</td><td>29.5</td><td>2.2</td><td>7.4</td><td>30</td><td>23 - 36</td></tr>
<tr><td>ISE Diluted</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td> All Chemistry Instruments</td><td>10</td><td>31.6</td><td>2.9</td><td>9.1</td><td>32</td><td>25 - 38</td><td>10</td><td>29.1</td><td>2.7</td><td>9.2</td><td>28</td><td>23 - 35</td></tr>
<tr><td>ISE Undiluted</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td> All Chemistry Instruments</td><td>16</td><td>31.1</td><td>4.1</td><td>13.3</td><td>33</td><td>24 - 38</td><td>16</td><td>28.6</td><td>3.2</td><td>11.1</td><td>30</td><td>22 - 35</td></tr>
<tr><td>VITROS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td> VITROS 250,350,400 500,700,750,950</td><td>17</td><td>30.9</td><td>1.5</td><td>5.0</td><td>31</td><td>24 - 38</td><td>17</td><td>28.1</td><td>2.1</td><td>7.5</td><td>28</td><td>22 - 34</td></tr>
<tr><td> All Chemistry Instruments</td><td>24</td><td>31.1</td><td>1.4</td><td>4.5</td><td>31</td><td>24 - 38</td><td>24</td><td>28.5</td><td>1.9</td><td>6.6</td><td>29</td><td>22 - 35</td></tr>
</table>

CO$_2$ (mmol/L)

Specimen CH-10

Method/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	156	34.2	2.8	8.2	35	27 - 41
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	36	27 - 42
All Chemistry Instruments	6	-	-	-	36	27 - 42
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	12	33.4	4.1	12.4	33	26 - 41
Beckman AU systems	25	35.6	1.9	5.3	36	28 - 43
Horiba ABX Pentra 400 / C400	15	34.0	2.2	6.6	34	27 - 41
Roche Integra	11	31.8	1.8	5.6	32	25 - 39
Siemens Dimension	19	36.2	2.2	6.0	37	28 - 44
All Chemistry Instruments	99	34.4	2.8	8.1	35	27 - 42
ISE Diluted						
All Chemistry Instruments	10	33.8	2.7	8.1	33	27 - 41
ISE Undiluted						
All Chemistry Instruments	16	33.8	3.6	10.6	33	27 - 41
VITROS						
VITROS 250,350,400 500,700,750,950	17	32.9	2.8	8.6	33	26 - 40
All Chemistry Instruments	24	33.5	2.5	7.6	34	26 - 41

Potassium (mmol/L)

| | Specimen CH-6 | | | | | | Specimen CH-7 | | | | |
Method/Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	168	3.27	0.06	1.9	3.3	2.7 - 3.8	174	4.24	0.09	2.2	4.2	3.7 - 4.8
Abaxis Piccolo												
Abaxis Piccolo - waived	14	3.32	0.17	5.0	3.3	2.8 - 3.9	14	4.36	0.16	3.7	4.4	3.8 - 4.9
All Chemistry Instruments	17	3.32	0.18	5.3	3.3	2.8 - 3.9	17	4.37	0.17	3.9	4.4	3.8 - 4.9
ISE Diluted												
Beckman AU systems	29	3.29	0.03	0.9	3.3	2.7 - 3.8	29	4.21	0.04	1.0	4.2	3.7 - 4.8
Roche Integra	13	3.28	0.04	1.1	3.3	2.7 - 3.8	13	4.25	0.05	1.2	4.3	3.7 - 4.8
Siemens Dimension QuickLyte - Xpand/EXL	20	3.28	0.04	1.3	3.3	2.7 - 3.8	20	4.27	0.06	1.4	4.3	3.7 - 4.8
All Chemistry Instruments	85	3.29	0.04	1.2	3.3	2.7 - 3.8	86	4.25	0.07	1.6	4.2	3.7 - 4.8
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	22	3.25	0.06	1.8	3.3	2.7 - 3.8	22	4.20	0.07	1.7	4.2	3.7 - 4.8
Horiba ABX Pentra 400 / C400	18	3.27	0.06	1.8	3.3	2.7 - 3.8	18	4.17	0.06	1.4	4.2	3.6 - 4.7
All Chemistry Instruments	47	3.25	0.07	2.0	3.3	2.7 - 3.8	46	4.19	0.07	1.8	4.2	3.6 - 4.7
VITROS												
VITROS 250,350,400 500,700,750,950	17	3.28	0.07	2.0	3.3	2.7 - 3.8	17	4.28	0.08	1.8	4.3	3.7 - 4.8
All Chemistry Instruments	24	3.27	0.06	2.0	3.3	2.7 - 3.8	24	4.26	0.07	1.7	4.3	3.7 - 4.8

| | Specimen CH-8 | | | | | | Specimen CH-9 | | | | |
Method/Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	161	5.70	0.11	1.9	5.7	5.2 - 6.3	161	5.21	0.09	1.8	5.2	4.7 - 5.8
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	5.7	5.3 - 6.4	4	-	-	-	5.3	4.8 - 5.8
All Chemistry Instruments	6	-	-	-	5.7	5.3 - 6.4	6	-	-	-	5.3	4.8 - 5.8
ISE Diluted												
Beckman AU systems	29	5.64	0.08	1.5	5.6	5.1 - 6.2	29	5.17	0.06	1.2	5.2	4.6 - 5.7
Roche Integra	13	5.68	0.06	1.0	5.7	5.1 - 6.2	12	5.20	0.01	0.0	5.2	4.7 - 5.7
Siemens Dimension QuickLyte - Xpand/EXL	20	5.76	0.06	1.0	5.8	5.2 - 6.3	20	5.26	0.07	1.3	5.3	4.7 - 5.8
All Chemistry Instruments	85	5.70	0.08	1.5	5.7	5.2 - 6.3	88	5.22	0.08	1.6	5.2	4.7 - 5.8
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	21	5.80	0.10	1.7	5.8	5.2 - 6.3	21	5.28	0.07	1.3	5.3	4.7 - 5.8
Horiba ABX Pentra 400 / C400	18	5.58	0.06	1.2	5.6	5.0 - 6.1	18	5.09	0.05	1.1	5.1	4.5 - 5.6
All Chemistry Instruments	45	5.68	0.14	2.4	5.7	5.1 - 6.2	45	5.18	0.11	2.2	5.2	4.6 - 5.7
VITROS												
VITROS 250,350,400 500,700,750,950	17	5.75	0.08	1.4	5.8	5.2 - 6.3	17	5.24	0.07	1.4	5.3	4.7 - 5.8
All Chemistry Instruments	24	5.74	0.10	1.7	5.7	5.2 - 6.3	24	5.22	0.07	1.4	5.2	4.7 - 5.8

Potassium (mmol/L)

Specimen CH-10

Method/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	160	6.43	0.15	2.3	6.4	5.9 - 7.0
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	6.6	6.0 - 7.1
All Chemistry Instruments	6	-	-	-	6.6	6.0 - 7.1
ISE Diluted						
Beckman AU systems	29	6.34	0.06	0.9	6.3	5.8 - 6.9
Roche Integra	12	6.38	0.06	0.9	6.4	5.8 - 6.9
Siemens Dimension QuickLyte - Xpand/EXL	19	6.49	0.07	1.0	6.5	5.9 - 7.0
All Chemistry Instruments	85	6.41	0.10	1.5	6.4	5.9 - 7.0
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	21	6.63	0.11	1.7	6.6	6.1 - 7.2
Horiba ABX Pentra 400	18	6.28	0.09	1.5	6.3	5.7 - 6.8
All Chemistry Instruments	45	6.45	0.20	3.1	6.4	5.9 - 7.0
VITROS						
VITROS 250,350,400 500,700,750,950	17	6.50	0.10	1.5	6.5	6.0 - 7.0
All Chemistry Instruments	23	6.48	0.09	1.4	6.5	5.9 - 7.0

Sodium (mmol/L)

Technical tip: Incomplete or incorrect method reporting is a common cause of proficiency test failure, especially when it comes to the electrolytes. If your test method is "ISE Direct", it should be reported as ISE Undiluted on your MLE test result form (TRF). If your test method is "ISE Indirect", it should be reported as ISE Diluted on your MLE TRF. Be sure to check your package insert for the correct test method, or contact the manufacturer of the instrument or reagent.

		Specimen CH-6						Specimen CH-7				
Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	175	130.4	2.5	1.9	130	126 - 135	176	138.1	2.5	1.8	138	134 - 143
Abaxis Piccolo												
Abaxis Piccolo - waived	14	133.6	1.4	1.0	134	129 - 138	14	142.3	1.9	1.4	142	138 - 147
All Chemistry Instruments	17	133.4	1.4	1.1	133	129 - 138	17	142.4	1.8	1.2	143	138 - 147
ISE Diluted												
Beckman AU systems	27	130.7	0.9	0.7	131	126 - 135	29	138.0	1.5	1.1	138	134 - 143
Roche Integra	13	130.5	1.6	1.2	131	126 - 135	13	137.1	1.0	0.8	137	133 - 142
Siemens Dimension QuickLyte - Xpand/EXL	20	133.6	1.7	1.3	134	129 - 138	20	140.2	1.5	1.0	140	136 - 145
All Chemistry Instruments	88	131.3	2.1	1.6	131	127 - 136	87	138.3	1.8	1.3	138	134 - 143
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	23	127.6	1.2	0.9	127	123 - 132	23	135.5	1.1	0.8	135	131 - 140
Horiba ABX Pentra 400 / C400	16	127.4	1.5	1.2	128	123 - 132	17	135.8	2.0	1.5	136	131 - 140
All Chemistry Instruments	44	127.8	1.3	1.0	128	123 - 132	46	135.7	1.6	1.2	136	131 - 140
VITROS												
VITROS 250,350,400 500,700,750,950	17	130.1	1.3	1.0	130	126 - 135	17	138.5	1.7	1.2	139	134 - 143
All Chemistry Instruments	24	129.8	1.3	1.0	130	125 - 134	24	138.1	1.6	1.1	138	134 - 143

		Specimen CH-8						Specimen CH-9				
	Labs	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	161	149.3	2.0	1.3	149	145 - 154	161	145.3	1.9	1.3	145	141 - 150
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	154	151 - 159	4	-	-	-	150	145 - 154
All Chemistry Instruments	6	-	-	-	155	151 - 159	6	-	-	-	149	145 - 154
ISE Diluted												
Beckman AU systems	29	148.6	1.5	1.0	149	144 - 153	29	144.8	1.4	0.9	145	140 - 149
Roche Integra	13	147.4	0.8	0.5	148	143 - 152	13	144.2	0.7	0.5	144	140 - 149
Siemens Dimension QuickLyte - Xpand/EXL	20	150.3	1.4	1.0	150	146 - 155	20	146.8	1.4	1.0	147	142 - 151
All Chemistry Instruments	87	148.8	1.6	1.1	149	144 - 153	88	145.3	1.8	1.2	145	141 - 150
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	21	149.0	1.4	1.0	149	144 - 153	22	144.7	1.6	1.1	144	140 - 149
Horiba ABX Pentra 400	17	148.6	2.3	1.5	149	144 - 153	17	143.8	1.7	1.2	144	139 - 148
All Chemistry Instruments	45	148.8	2.0	1.3	149	144 - 153	45	144.2	1.7	1.2	144	140 - 149
VITROS												
VITROS 250,350,400 500,700,750,950	17	151.1	1.4	0.9	151	147 - 156	17	147.2	1.2	0.8	147	143 - 152
All Chemistry Instruments	24	150.8	1.3	0.9	151	146 - 155	24	146.8	1.3	0.9	147	142 - 151

Sodium (mmol/L)

Specimen CH-10

Method/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	160	155.1	2.4	1.5	155	151 - 160
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	160	156 - 165
All Chemistry Instruments	6	-	-	-	161	156 - 165
ISE Diluted						
Beckman AU systems	29	153.8	1.3	0.8	154	149 - 158
Roche Integra	12	152.8	0.8	0.5	153	148 - 157
Siemens Dimension QuickLyte - Xpand/EXL	20	155.2	1.7	1.1	155	151 - 160
All Chemistry Instruments	87	154.1	1.7	1.1	154	150 - 159
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	23	156.1	3.3	2.1	156	152 - 161
Horiba ABX Pentra 400	17	154.6	2.0	1.3	155	150 - 159
All Chemistry Instruments	47	155.3	3.0	1.9	155	151 - 160
VITROS						
VITROS 250,350,400 500,700,750,950	17	158.4	1.3	0.8	159	154 - 163
All Chemistry Instruments	24	157.9	1.5	0.9	158	153 - 162

TIBC – Calculated (µg/dL)

Method/Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-6							**Specimen CH-7**		
All Method	12	120.5	27.1	22.5	129	66 - 175	12	174.8	39.3	22.5	193	96 - 254
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	6	134.7	9.8	7.3	136	107 - 162	6	196.2	11.9	6.1	201	156 - 236
			Specimen CH-8							**Specimen CH-9**		
All Method	12	260.4	56.6	21.7	283	147 - 374	12	233.5	50.5	21.6	256	132 - 335
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	6	291.5	16.8	5.8	296	233 - 350	6	263.3	12.9	4.9	266	210 - 316
			Specimen CH-10									
All Method	12	304.3	65.3	21.5	331	173 - 435						
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	6	340.2	17.8	5.2	345	272 - 409						

TIBC – Direct (µg/dL)

Method/Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-6							**Specimen CH-7**		
All Method	20	109.5	39.0	35.6	103	31 - 188	20	165.7	40.7	24.6	171	84 - 248
			Specimen CH-8							**Specimen CH-9**		
All Method	20	235.5	45.9	19.5	228	143 - 328	20	212.4	38.1	17.9	210	136 - 289
			Specimen CH-10									
All Method	18	268.7	25.4	9.5	261	214 - 323						

UIBC – Direct (µg/dL)

Method/Instrument	Specimen CH-6						Specimen CH-7					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	23	76.4	8.8	11.5	78	58 - 95	23	99.1	7.7	7.8	101	79 - 119
Beckman AU												
Beckman AU systems	14	81.4	4.9	6.1	81	65 - 98	14	102.7	5.5	5.4	105	82 - 124

Method/Instrument	Specimen CH-8						Specimen CH-9					
All Method	23	131.2	9.9	7.5	134	104 - 158	23	120.3	9.1	7.5	121	96 - 145
Beckman AU												
Beckman AU systems	14	136.0	6.3	4.7	136	108 - 164	14	124.9	5.3	4.3	123	99 - 150

Method/Instrument	Specimen CH-10					
All Method	23	146.1	10.2	7.0	148	116 - 176
Beckman AU						
Beckman AU systems	14	151.3	8.3	5.5	151	121 - 182

ALT (SGPT) (IU/L)

Instrument/Reagent	Specimen CH-6						Specimen CH-7				
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	171	47.4	3.9	8.2	47	37 - 57	172	97.5	7.3	7.5	97	78 - 118
All Alfa Wassermann Reagents	22	47.5	2.2	4.7	48	37 - 57	22	96.5	3.2	3.4	97	77 - 116
All Horiba Pentra Reagents	20	50.5	1.7	3.4	50	40 - 61	20	106.0	3.0	2.9	106	84 - 128
All Roche Reagents	24	46.8	1.1	2.4	47	37 - 57	24	97.7	2.0	2.1	97	78 - 118
All Siemens Healthcare	5	55.2	1.6	3.0	56	44 - 67	5	107.6	14.6	13.6	110	86 - 130
Abaxis Piccolo												
Abaxis Piccolo - waived	15	47.7	3.4	7.1	47	38 - 58	15	90.4	2.8	3.1	90	72 - 109
All Chemistry Instruments	17	47.7	3.2	6.7	47	38 - 58	17	90.5	2.6	2.9	90	72 - 109
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	47.5	2.2	4.7	48	37 - 57	22	96.5	3.2	3.4	97	77 - 116
Beckman AU												
Beckman AU systems	30	43.4	1.5	3.4	43	34 - 53	29	89.4	2.6	2.9	89	71 - 108
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	50.5	1.7	3.4	50	40 - 61	20	106.0	3.0	2.9	106	84 - 128
Roche cobas c 501												
Roche cobas 6000 / c 501	9	47.1	0.9	2.0	47	37 - 57	9	98.1	2.0	2.1	99	78 - 118
Roche Integra												
Roche Integra	13	46.6	1.3	2.7	47	37 - 56	13	97.5	2.2	2.3	97	78 - 118
Siemens Healthcare ALTi												
Siemens Dimension	21	53.9	1.7	3.2	54	43 - 65	21	108.2	2.7	2.5	108	86 - 130
VITROS												
All Chemistry Instruments	5	48.2	10.6	21.9	44	38 - 58	5	98.4	8.8	9.0	96	78 - 119
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	14	43.6	1.4	3.2	43	34 - 53	14	93.3	3.0	3.2	93	74 - 112
All Chemistry Instruments	18	43.5	1.2	2.9	43	34 - 53	18	93.2	2.8	3.0	93	74 - 112

ALT (SGPT) (IU/L)

Instrument/Reagent	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-8							Specimen CH-9		
All Method	161	172.2	12.1	7.0	171	137 - 207	161	147.8	10.1	6.8	147	118 - 178
All Alfa Wassermann Reagents	21	169.9	3.2	1.9	170	135 - 204	21	146.5	1.8	1.2	146	117 - 176
All Horiba Pentra Reagents	20	186.6	5.1	2.7	187	149 - 224	20	159.5	4.2	2.6	159	127 - 192
All Roche Reagents	24	172.3	3.7	2.1	172	137 - 207	24	147.9	3.2	2.2	147	118 - 178
All Siemens Healthcare	5	193.6	6.9	3.6	190	154 - 233	5	165.6	5.3	3.2	164	132 - 199
Abaxis Piccolo												
Abaxis Piccolo - waived	5	154.8	2.3	1.5	155	123 - 186	5	132.8	3.1	2.3	132	106 - 160
All Chemistry Instruments	6	154.8	2.0	1.3	155	123 - 186	6	133.3	3.1	2.3	134	106 - 160
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	169.9	3.2	1.9	170	135 - 204	21	146.5	1.8	1.2	146	117 - 176
Beckman AU												
Beckman AU systems	30	158.2	4.5	2.8	158	126 - 190	30	135.9	4.1	3.0	136	108 - 164
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	186.6	5.1	2.7	187	149 - 224	20	159.5	4.2	2.6	159	127 - 192
Roche cobas c 501												
Roche cobas 6000 / c 501	9	173.1	3.0	1.7	174	138 - 208	9	148.8	3.4	2.3	150	119 - 179
Roche Integra												
Roche Integra	13	171.9	4.3	2.5	172	137 - 207	13	147.4	3.4	2.3	146	117 - 177
Siemens Healthcare ALTi												
Siemens Dimension	21	188.1	3.1	1.7	188	150 - 226	21	161.6	2.5	1.6	163	129 - 194
VITROS												
All Chemistry Instruments	5	170.8	5.9	3.5	172	136 - 205	5	147.8	6.3	4.2	150	118 - 178
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	14	164.8	8.4	5.1	165	131 - 198	14	142.2	5.0	3.5	141	113 - 171
All Chemistry Instruments	17	166.4	4.6	2.8	166	133 - 200	18	141.7	4.9	3.5	141	113 - 171

ALT (SGPT) (IU/L)

Specimen CH-10

Instrument/Reagent	Labs	Mean	SD	CV	Median	Range
All Method	158	208.2	14.2	6.8	207	166 - 250
All Alfa Wassermann Reagents	20	205.2	3.5	1.7	206	164 - 247
All Horiba Pentra Reagents	20	225.5	6.1	2.7	226	180 - 271
All Roche Reagents	23	208.3	5.1	2.5	208	166 - 251
All Siemens Healthcare	5	233.2	9.0	3.9	230	186 - 280
Abaxis Piccolo						
Abaxis Piccolo - waived	5	186.6	3.8	2.0	185	149 - 224
All Chemistry Instruments	6	187.0	3.5	1.9	187	149 - 225
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	205.2	3.5	1.7	206	164 - 247
Beckman AU						
Beckman AU systems	30	192.1	5.4	2.8	192	153 - 231
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	20	225.5	6.1	2.7	226	180 - 271
Roche cobas c 501						
Roche cobas 6000 / c 501	9	210.6	4.9	2.3	212	168 - 253
Roche Integra						
Roche Integra	12	207.1	5.3	2.6	206	165 - 249
Siemens Healthcare ALTi						
Siemens Dimension	21	226.9	4.1	1.8	227	181 - 273
VITROS						
All Chemistry Instruments	5	205.8	7.2	3.5	210	164 - 247
VITROS ALTV						
VITROS 250,350,400 500,700,750,950	14	201.1	6.0	3.0	201	160 - 242
All Chemistry Instruments	18	200.4	5.9	2.9	201	160 - 241

Alkaline Phosphatase (IU/L)

Instrument/Reagent	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-6							Specimen CH-7		
All Method	173	74.6	7.4	9.9	75	52 - 97	175	133.0	15.8	11.9	134	93 - 173
All Alfa Wassermann Reagents	22	72.9	4.8	6.6	74	51 - 95	22	133.2	7.9	5.9	134	93 - 174
All Horiba Pentra Reagents	20	83.9	2.9	3.4	84	58 - 110	20	151.7	4.2	2.8	151	106 - 198
All Roche Reagents	24	78.0	2.4	3.1	78	54 - 102	24	142.8	4.0	2.8	143	99 - 186
Abaxis Piccolo												
Abaxis Piccolo - waived	15	67.3	4.7	7.0	67	47 - 88	15	112.3	4.8	4.3	112	78 - 146
All Chemistry Instruments	17	67.2	5.0	7.4	67	47 - 88	17	112.5	5.1	4.5	112	78 - 147
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	72.9	4.8	6.6	74	51 - 95	22	133.2	7.9	5.9	134	93 - 174
Beckman AU												
Beckman AU systems	29	67.3	5.1	7.5	67	47 - 88	29	123.9	8.7	7.1	124	86 - 162
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	83.9	2.9	3.4	84	58 - 110	20	151.7	4.2	2.8	151	106 - 198
Roche Integra												
Roche Integra	13	77.5	1.9	2.4	77	54 - 101	13	142.2	3.3	2.3	141	99 - 185
Siemens Healthcare ALPi												
Siemens Dimension	19	81.2	2.9	3.5	81	56 - 106	19	150.2	4.0	2.7	150	105 - 196
VITROS												
VITROS 250,350,400 500,700,750,950	16	71.9	3.7	5.1	73	50 - 94	17	117.6	6.6	5.6	117	82 - 153
All Chemistry Instruments	22	71.7	3.6	5.0	72	50 - 94	23	117.0	6.4	5.5	117	81 - 153

Alkaline Phosphatase (IU/L)

Instrument/Reagent	Specimen CH-8						Specimen CH-9					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	164	211.8	32.9	15.5	223	148 - 276	164	186.0	26.1	14.0	193	130 - 242
All Alfa Wassermann Reagents	21	219.0	10.4	4.7	220	153 - 285	22	189.2	11.6	6.1	189	132 - 246
All Horiba Pentra Reagents	20	243.8	7.5	3.1	245	170 - 317	20	211.6	7.5	3.6	211	148 - 276
All Roche Reagents	24	230.7	5.8	2.5	231	161 - 300	24	201.0	6.7	3.3	203	140 - 262
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	172	148 - 276	5	-	-	-	146	130 - 242
All Chemistry Instruments	6	-	-	-	168	116 - 218	6	-	-	-	146	104 - 194
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	219.0	10.4	4.7	220	153 - 285	22	189.2	11.6	6.1	189	132 - 246
Beckman AU												
Beckman AU systems	29	200.9	14.7	7.3	201	140 - 262	29	174.4	12.3	7.1	173	122 - 227
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	243.8	7.5	3.1	245	170 - 317	20	211.6	7.5	3.6	211	148 - 276
Roche Integra												
Roche Integra	13	229.6	5.0	2.2	231	160 - 299	13	199.5	5.6	2.8	199	139 - 260
Siemens Healthcare ALPi												
Siemens Dimension	19	243.1	4.3	1.8	243	170 - 317	19	212.4	4.8	2.3	212	148 - 277
VITROS												
VITROS 250,350,400 500,700,750,950	17	154.7	8.4	5.4	154	108 - 202	17	145.9	7.5	5.1	145	102 - 190
All Chemistry Instruments	23	153.7	7.9	5.1	154	107 - 200	23	144.7	7.4	5.1	145	101 - 189

Alkaline Phosphatase (IU/L)

Specimen CH-10

Instrument/Reagent	Labs	Mean	SD	CV	Median	Range
All Method	162	245.5	44.0	17.9	259	171 - 320
All Alfa Wassermann Reagents	21	253.3	14.9	5.9	251	177 - 330
All Horiba Pentra Reagents	20	287.2	10.4	3.6	290	201 - 374
All Roche Reagents	23	269.5	8.0	3.0	272	188 - 351
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	195	171 - 320
All Chemistry Instruments	6	-	-	-	195	135 - 253
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	253.3	14.9	5.9	251	177 - 330
Beckman AU						
Beckman AU systems	28	235.4	17.8	7.5	235	164 - 306
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	20	287.2	10.4	3.6	290	201 - 374
Roche Integra						
Roche Integra	12	268.1	6.4	2.4	272	187 - 349
Siemens Healthcare ALPi						
Siemens Dimension	19	288.8	5.5	1.9	289	202 - 376
VITROS						
VITROS 250,350,400 500,700,750,950	17	164.6	9.5	5.8	165	115 - 215
All Chemistry Instruments	23	163.6	8.7	5.3	164	114 - 213

AST (SGOT) (IU/L)

Instrument/Reagent	Specimen CH-6						Specimen CH-7					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	150	137.4	12.1	8.8	139	109 - 165	151	177.8	17.9	10.1	180	142 - 214
All Alfa Wassermann Reagents	21	131.8	5.1	3.9	133	105 - 159	21	169.3	5.6	3.3	170	135 - 204
All Horiba Pentra Reagents	20	150.0	6.9	4.6	151	119 - 180	20	194.5	10.1	5.2	195	155 - 234
All Roche Reagents	24	142.8	4.7	3.3	142	114 - 172	24	183.1	5.7	3.1	181	146 - 220
Abaxis Piccolo												
Abaxis Piccolo - waived	15	133.9	3.3	2.5	134	107 - 161	15	170.3	4.7	2.7	171	136 - 205
All Chemistry Instruments	17	134.1	3.2	2.4	134	107 - 161	17	170.4	4.4	2.6	171	136 - 205
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	131.8	5.1	3.9	133	105 - 159	21	169.3	5.6	3.3	170	135 - 204
Beckman AU												
Beckman AU systems	29	119.7	4.5	3.7	120	95 - 144	30	153.4	5.0	3.3	154	122 - 185
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	150.0	6.9	4.6	151	119 - 180	20	194.5	10.1	5.2	195	155 - 234
Roche Integra												
Roche Integra	13	144.5	5.1	3.5	147	115 - 174	13	185.2	6.4	3.4	188	148 - 223
Siemens Healthcare												
Siemens Dimension	25	141.8	4.2	2.9	142	113 - 171	25	184.2	3.9	2.1	184	147 - 222
VITROS												
VITROS 250,350,400 500,700,750,950	16	148.7	3.1	2.1	148	118 - 179	16	200.6	5.7	2.9	201	160 - 241
All Chemistry Instruments	22	148.6	3.9	2.6	148	118 - 179	22	200.7	6.7	3.3	200	160 - 241

AST (SGOT) (IU/L)

Instrument/Reagent			Specimen CH-8						Specimen CH-9			
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	140	239.7	30.0	12.5	240	191 - 288	140	218.8	24.9	11.4	220	175 - 263
All Alfa Wassermann Reagents	22	227.0	8.0	3.5	228	181 - 273	21	207.2	5.5	2.7	208	165 - 249
All Horiba Pentra Reagents	20	258.7	15.0	5.8	260	206 - 311	20	233.3	14.1	6.0	236	186 - 280
All Roche Reagents	24	242.5	7.1	2.9	241	194 - 292	24	222.5	6.8	3.1	221	177 - 267
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	221	191 - 288	5	-	-	-	202	175 - 263
All Chemistry Instruments	6	-	-	-	225	180 - 271	6	-	-	-	208	165 - 248
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	227.0	8.0	3.5	228	181 - 273	21	207.2	5.5	2.7	208	165 - 249
Beckman AU												
Beckman AU systems	30	204.4	7.0	3.4	205	163 - 246	30	187.1	5.8	3.1	187	149 - 225
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	258.7	15.0	5.8	260	206 - 311	20	233.3	14.1	6.0	236	186 - 280
Roche Integra												
Roche Integra	13	244.7	8.2	3.4	248	195 - 294	13	224.6	7.8	3.5	226	179 - 270
Siemens Healthcare												
Siemens Dimension	25	247.0	6.1	2.5	246	197 - 297	25	226.8	6.0	2.6	226	181 - 273
VITROS												
VITROS 250,350,400 500,700,750,950	15	290.2	7.4	2.5	292	232 - 349	17	260.2	8.2	3.2	262	208 - 313
All Chemistry Instruments	21	288.5	7.7	2.7	292	230 - 347	23	258.4	8.6	3.3	259	206 - 311

AST (SGOT) (IU/L)

Specimen CH-10

Instrument/Reagent	Labs	Mean	SD	CV	Median	Range
All Method	139	268.4	37.4	13.9	268	214 - 323
All Alfa Wassermann Reagents	21	250.9	9.3	3.7	250	200 - 302
All Horiba Pentra Reagents	20	286.8	15.5	5.4	289	229 - 345
All Roche Reagents	23	270.0	8.3	3.1	269	216 - 325
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	248	214 - 323
All Chemistry Instruments	6	-	-	-	251	199 - 299
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	250.9	9.3	3.7	250	200 - 302
Beckman AU						
Beckman AU systems	30	228.8	7.7	3.4	230	183 - 275
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	20	286.8	15.5	5.4	289	229 - 345
Roche Integra						
Roche Integra	12	272.0	10.2	3.7	272	217 - 327
Siemens Healthcare						
Siemens Dimension	25	278.6	6.7	2.4	279	222 - 335
VITROS						
VITROS 250,350,400 500,700,750,950	16	339.7	12.6	3.7	341	271 - 408
All Chemistry Instruments	22	336.3	12.5	3.7	333	269 - 404

Creatine Kinase (IU/L)

		Specimen CH-6						Specimen CH-7				
Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	61	54.6	4.2	7.8	55	38 - 71	61	119.8	8.8	7.3	122	83 - 156
All Alfa Wassermann Reagents	7	57.3	3.0	5.3	57	40 - 75	7	118.4	3.9	3.3	119	82 - 154
All Roche Reagents	10	57.1	2.1	3.6	57	39 - 75	10	125.9	2.4	1.9	126	88 - 164
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	7	57.3	3.0	5.3	57	40 - 75	7	118.4	3.9	3.3	119	82 - 154
Beckman AU												
Beckman AU systems	16	49.3	4.6	9.4	50	34 - 65	16	110.7	10.1	9.1	112	77 - 144
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	5	59.0	2.5	4.3	59	41 - 77	5	128.4	6.5	5.1	128	89 - 167
Roche Integra												
Roche Integra	5	57.6	3.0	5.2	58	40 - 75	5	126.4	3.3	2.6	127	88 - 165
Siemens Healthcare CKI												
Siemens Dimension	15	55.0	1.8	3.3	55	38 - 72	14	124.9	2.2	1.8	125	87 - 163
VITROS												
All Chemistry Instruments	5	52.4	3.1	6.0	53	36 - 69	5	108.4	7.0	6.5	111	75 - 141

		Specimen CH-8						Specimen CH-9				
All Method	61	212.9	20.3	9.6	214	149 - 277	61	182.9	14.9	8.1	185	128 - 238
All Alfa Wassermann Reagents	7	205.3	5.8	2.8	204	143 - 267	7	182.4	14.2	7.8	182	127 - 238
All Roche Reagents	10	225.7	5.1	2.3	226	157 - 294	10	191.5	4.3	2.3	192	134 - 249
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	7	205.3	5.8	2.8	204	143 - 267	7	182.4	14.2	7.8	182	127 - 238
Beckman AU												
Beckman AU systems	15	200.1	18.6	9.3	203	140 - 261	16	170.3	14.9	8.8	172	119 - 222
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	5	231.2	12.4	5.4	232	161 - 301	5	195.6	11.0	5.6	195	136 - 255
Roche Integra												
Roche Integra	5	224.4	7.1	3.2	225	157 - 292	5	190.0	5.3	2.8	191	133 - 247
Siemens Healthcare CKI												
Siemens Dimension	14	226.9	4.8	2.1	228	158 - 296	15	191.0	5.2	2.7	192	133 - 249
VITROS												
All Chemistry Instruments	5	174.4	9.2	5.2	176	122 - 227	5	155.6	8.4	5.4	158	108 - 203

Creatine Kinase (IU/L) cont'd

Specimen CH-10

All Method	62	253.6	26.1	10.3	259	177 - 330
All Alfa Wassermann Reagents	7	245.4	9.3	3.8	246	171 - 320
All Roche Reagents	10	267.2	7.4	2.8	270	187 - 348
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	7	245.4	9.3	3.8	246	171 - 320
Beckman AU						
Beckman AU systems	16	240.8	22.1	9.2	242	168 - 313
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	5	275.2	12.8	4.7	278	192 - 358
Roche Integra						
Roche Integra	5	263.6	8.3	3.1	265	184 - 343
Siemens Healthcare CKI						
Siemens Dimension	15	270.8	7.2	2.7	271	189 - 353
VITROS						
All Chemistry Instruments	5	196.2	10.3	5.3	201	137 - 256

GGT (IU/L)

Specimen CH-6 / Specimen CH-7

Instrument/Reagent	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	39	42.1	10.3	24.5	38	21 - 63	39	82.4	17.3	21.0	77	47 - 118
All Roche Reagents	11	37.7	1.5	3.9	37	32 - 44	11	77.3	3.4	4.4	77	65 - 89
Beckman AU												
Beckman AU systems	9	33.4	1.1	3.4	33	28 - 39	9	67.7	2.2	3.3	67	57 - 78
Roche Integra												
Roche Integra	7	37.3	1.1	3.0	37	31 - 43	7	76.7	1.3	1.6	77	65 - 89
Siemens Healthcare												
Siemens Dimension	6	55.0	1.1	2.0	55	46 - 64	6	104.5	2.9	2.8	104	88 - 121

Specimen CH-8 / Specimen CH-9

Instrument/Reagent	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	38	144.1	29.0	20.1	137	86 - 203	38	124.2	27.4	22.1	116	69 - 180
All Roche Reagents	11	136.3	5.1	3.7	136	115 - 157	11	116.7	4.9	4.2	116	99 - 135
Beckman AU												
Beckman AU systems	9	119.0	2.7	2.3	119	101 - 137	9	102.1	2.6	2.5	101	86 - 118
Roche Integra												
Roche Integra	7	135.9	2.5	1.9	136	115 - 157	7	116.1	2.2	1.9	116	98 - 134
Siemens Healthcare												
Siemens Dimension	6	179.0	3.1	1.7	180	152 - 206	6	153.0	2.7	1.8	152	130 - 176

Specimen CH-10

Instrument/Reagent	Labs	Mean	SD	CV	Median	Range
All Method	36	171.6	32.1	18.7	163	107 - 236
All Roche Reagents	10	164.2	6.2	3.8	163	139 - 189
Beckman AU						
Beckman AU systems	9	144.4	3.9	2.7	144	122 - 167
Roche Integra						
Roche Integra	6	163.0	2.8	1.7	163	138 - 188
Siemens Healthcare						
Siemens Dimension	6	214.5	5.0	2.3	214	182 - 247

Amylase (IU/L)

		Specimen CH-6						Specimen CH-7			
Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	48	35.1	4.9	13.9	37	24 - 46	47	69.0	11.1	16.1	71	48 - 90
All Roche Reagents	10	36.2	1.2	3.4	37	25 - 48	10	71.2	1.5	2.2	71	49 - 93
Beckman AU												
Beckman AU systems	10	28.0	1.8	6.5	28	19 - 37	10	57.9	2.9	5.0	59	40 - 76
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	5	39.0	2.3	6.0	38	27 - 51	5	77.4	5.3	6.8	76	54 - 101
Roche cobas c 501												
Roche cobas 6000 / c 501	5	35.4	1.1	3.2	35	24 - 47	5	70.0	0.7	1.0	70	49 - 91
Roche Integra												
Roche Integra	5	37.0	0.7	1.9	37	25 - 49	5	72.4	1.1	1.6	72	50 - 95
Siemens Healthcare												
Siemens Dimension	8	39.5	0.8	1.9	40	27 - 52	7	81.7	1.4	1.7	81	57 - 107
VITROS												
VITROS 250,350,400 500,700,750,950	6	30.3	0.8	2.7	30	21 - 40	6	51.2	4.2	8.1	51	35 - 67

		Specimen CH-8						Specimen CH-9			
All Method	47	121.7	20.7	17.0	126	85 - 159	47	103.7	16.5	15.9	107	72 - 135
All Roche Reagents	10	124.1	2.8	2.3	124	86 - 162	10	106.3	2.2	2.1	106	74 - 139
Beckman AU												
Beckman AU systems	10	101.8	5.5	5.4	101	71 - 133	10	87.3	5.1	5.8	88	61 - 114
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	5	137.4	7.7	5.6	135	96 - 179	5	116.6	4.3	3.7	118	81 - 152
Roche cobas c 501												
Roche cobas 6000 / c 501	5	122.0	1.6	1.3	122	85 - 159	5	104.8	1.5	1.4	105	73 - 137
Roche Integra												
Roche Integra	5	126.2	2.2	1.7	126	88 - 165	5	107.8	1.8	1.7	108	75 - 141
Siemens Healthcare												
Siemens Dimension	8	144.0	1.6	1.1	144	100 - 188	8	123.1	1.8	1.5	123	86 - 161
VITROS												
VITROS 250,350,400 500,700,750,950	6	87.2	4.8	5.5	86	61 - 114	6	76.8	2.3	3.0	77	53 - 100

Amylase (IU/L)

Specimen CH-10

All Method	47	145.3	23.6	16.2	150	101 - 189
All Roche Reagents	10	149.8	2.8	1.9	150	104 - 195
Beckman AU						
Beckman AU systems	10	124.1	5.9	4.7	124	86 - 162
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	5	165.0	9.3	5.6	162	115 - 215
Roche cobas c 501						
Roche cobas 6000 / c 501	5	148.0	1.6	1.1	148	103 - 193
Roche Integra						
Roche Integra	5	151.6	2.7	1.8	152	106 - 198
Siemens Healthcare						
Siemens Dimension	8	174.9	1.7	1.0	176	122 - 228
VITROS						
VITROS 250,350,400 500,700,750,950	6	108.8	3.7	3.4	109	76 - 142

Lactate Dehydrogenase (IU/L)

Instrument/Reagent	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-6							Specimen CH-7		
All Method	47	183.4	20.8	11.4	190	146 - 221	48	313.5	40.1	12.8	328	250 - 377
All Alfa Wassermann Reagents	6	138.8	7.5	5.4	136	111 - 167	6	233.5	11.6	5.0	232	186 - 281
All Horiba Pentra Reagents	7	190.1	8.0	4.2	189	152 - 229	7	328.0	5.3	1.6	326	262 - 394
All Roche Reagents	18	200.4	5.8	2.9	201	160 - 241	18	341.1	8.1	2.4	341	272 - 410
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	5	138.8	7.5	5.4	136	111 - 167	5	233.5	11.6	5.0	232	186 - 281
Beckman AU												
Beckman AU systems	10	162.8	7.6	4.6	163	130 - 196	10	277.3	10.7	3.9	279	221 - 333
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	190.1	8.0	4.2	189	152 - 229	7	328.0	5.3	1.6	326	262 - 394
Roche cobas c 501												
Roche cobas 6000 / c 501	7	197.3	6.4	3.2	196	157 - 237	7	339.4	11.2	3.3	338	271 - 408
Roche Integra												
Roche Integra	11	202.4	4.6	2.3	202	161 - 243	11	342.2	5.9	1.7	342	273 - 411
Siemens Healthcare LDI												
Siemens Dimension	5	184.5	10.0	5.4	186	147 - 222	5	320.3	15.1	4.7	324	256 - 385

Lactate Dehydrogenase (IU/L)

Instrument/Reagent	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-8							Specimen CH-9		
All Method	48	503.7	58.6	11.6	526	402 - 605	48	441.5	54.8	12.4	464	353 - 530
All Alfa Wassermann Reagents	6	372.5	17.6	4.7	369	298 - 447	6	317.8	18.4	5.8	313	254 - 382
All Horiba Pentra Reagents	7	526.4	8.5	1.6	525	421 - 632	7	464.0	19.0	4.1	458	371 - 557
All Roche Reagents	18	543.1	14.4	2.7	544	434 - 652	18	475.8	11.2	2.4	476	380 - 571
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	5	372.5	17.6	4.7	369	298 - 447	5	317.8	18.4	5.8	313	254 - 382
Beckman AU												
Beckman AU systems	10	446.1	18.1	4.0	447	356 - 536	10	388.8	16.5	4.2	390	311 - 467
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	526.4	8.5	1.6	525	421 - 632	7	464.0	19.0	4.1	458	371 - 557
Roche cobas c 501												
Roche cobas 6000 / c 501	7	545.3	19.2	3.5	544	436 - 655	7	476.3	16.1	3.4	476	381 - 572
Roche Integra												
Roche Integra	11	541.6	11.2	2.1	543	433 - 650	11	475.5	7.7	1.6	476	380 - 571
Siemens Healthcare LDI												
Siemens Dimension	5	512.0	22.9	4.5	512	409 - 615	5	454.3	11.3	2.5	452	363 - 546

Lactate Dehydrogenase (IU/L)

Specimen CH-10

All Method	47	594.6	70.6	11.9	620	475 - 714
All Alfa Wassermann Reagents	6	433.8	15.8	3.6	434	347 - 521
All Horiba Pentra Reagents	7	625.9	15.7	2.5	621	500 - 752
All Roche Reagents	17	640.0	16.5	2.6	639	512 - 768
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	5	433.8	15.8	3.6	434	347 - 521
Beckman AU						
Beckman AU systems	10	526.2	18.8	3.6	527	420 - 632
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	7	625.9	15.7	2.5	621	500 - 752
Roche cobas c 501						
Roche cobas 6000 / c 501	7	645.9	19.0	2.9	644	516 - 776
Roche Integra						
Roche Integra	10	635.9	14.0	2.2	635	508 - 764
Siemens Healthcare LDI						
Siemens Dimension	5	620.5	21.0	3.4	617	496 - 745

Lipase (IU/L)

	Specimen CH-6					Specimen CH-7				
Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	22	15.5	2.4	15.2	16	10 - 21	22	23.7	3.3	13.8	26	16 - 31
All Roche Reagents	10	14.5	0.7	4.9	15	10 - 19	10	22.3	0.8	3.7	22	15 - 29
Beckman AU												
Beckman AU systems	7	17.4	1.3	7.3	17	12 - 23	7	27.1	1.1	3.9	27	18 - 36
Roche cobas c 501												
Roche cobas 6000 / c 501	5	14.8	0.4	3.0	15	10 - 20	5	22.6	0.9	4.0	22	15 - 30
Siemens Healthcare												
Siemens Dimension	6	54.3	10.3	19.0	58	38 - 71	5	81.2	14.6	18.0	86	56 - 106

	Specimen CH-8					Specimen CH-9				
	Labs	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	22	36.1	5.2	14.3	41	25 - 47	22	31.8	4.5	14.0	36	22 - 42
All Roche Reagents	10	33.1	1.9	5.6	33	23 - 44	10	29.6	1.5	5.1	30	20 - 39
Beckman AU												
Beckman AU systems	7	41.7	1.1	2.7	42	29 - 55	7	36.6	1.0	2.7	37	25 - 48
Roche cobas c 501												
Roche cobas 6000 / c 501	5	34.2	1.1	3.2	35	23 - 45	5	30.6	0.5	1.8	31	21 - 40
Siemens Healthcare												
Siemens Dimension	6	125.0	17.6	14.1	132	87 - 163	6	112.5	16.6	14.7	120	78 - 147

	Specimen CH-10					
	Labs	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	22	42.4	6.8	16.1	48	29 - 56
All Roche Reagents	10	38.1	2.1	5.5	38	26 - 50
Beckman AU						
Beckman AU systems	7	50.0	2.2	4.3	50	35 - 65
Roche cobas c 501						
Roche cobas 6000 / c 501	5	39.4	1.5	3.8	39	27 - 52
Siemens Healthcare						
Siemens Dimension	6	147.7	19.1	12.9	155	103 - 192

Alpha-fetoprotein (AFP) (ng/mL)

		Specimen CH-6							Specimen CH-7				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	6	36.73	4.14	11.3	36.5	24.3 - 49.2	6	102.08	8.56	8.4	99.8	76.3 - 127.8

		Specimen CH-8							Specimen CH-9				
All Method	6	203.00	19.51	9.6	198.0	144.4 - 261.6	6	168.00	16.01	9.5	163.2	119.9 - 216.1

		Specimen CH-10				
All Method	6	244.13	27.01	11.1	232.1	163.1 - 325.2

Cortisol (µg/dL)

		Specimen CH-6							Specimen CH-7				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	15	8.46	0.71	8.4	8.6	6.3 - 10.6	15	15.32	1.52	10.0	15.4	11.4 - 19.2
Beckman ACCESS / 2 / DxI	7	8.81	0.38	4.4	8.9	6.6 - 11.1	7	15.77	1.24	7.8	15.5	11.8 - 19.8

		Specimen CH-8							Specimen CH-9				
All Method	15	25.23	2.52	10.0	25.6	18.9 - 31.6	15	21.99	2.06	9.3	22.5	16.4 - 27.5
Beckman ACCESS / 2 / DxI	7	26.47	1.53	5.8	26.2	19.8 - 33.1	7	22.87	1.61	7.1	23.5	17.1 - 28.6

		Specimen CH-10				
All Method	15	29.43	2.62	8.9	29.9	22.0 - 36.8
Beckman ACCESS / 2 / DxI	7	30.89	1.54	5.0	30.5	23.1 - 38.7

T$_3$ Uptake (percent)

		Specimen CH-6						Specimen CH-7				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	10	49.03	6.06	12.4	50.1	30.8 - 67.3	10	46.49	4.46	9.6	47.7	33.1 - 59.9

		Specimen CH-8						Specimen CH-9				
All Method	10	44.53	3.45	7.8	44.9	34.1 - 54.9	10	45.42	3.27	7.2	45.6	35.5 - 55.3

		Specimen CH-10				
All Method	10	44.17	3.74	8.5	43.5	32.9 - 55.5

Triiodothyronine (ng/mL)

		Specimen CH-6						Specimen CH-7				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	19	1.06	0.25	23.3	1.2	0.3 - 1.9	19	1.31	0.26	19.5	1.5	0.5 - 2.1
All TOSOH Instruments	7	4.13	0.17	4.1	4.2	3.6 - 4.7	7	4.97	0.26	5.3	4.9	4.1 - 5.8
Beckman ACCESS / 2 / DxI	10	1.08	0.10	9.6	1.1	0.7 - 1.4	10	1.32	0.12	9.3	1.3	0.9 - 1.7
TOSOH ST AIA PACK	6	4.12	0.18	4.5	4.1	3.5 - 4.7	6	4.97	0.29	5.8	4.9	4.1 - 5.9

		Specimen CH-8						Specimen CH-9				
All Method	19	1.59	0.33	20.9	1.7	0.5 - 2.6	19	1.45	0.29	19.8	1.6	0.5 - 2.4
All TOSOH Instruments	7	6.04	0.34	5.6	6.0	5.0 - 7.1	7	5.69	0.13	2.4	5.7	5.2 - 6.1
Beckman ACCESS / 2 / DxI	10	1.71	0.21	12.5	1.7	1.0 - 2.4	10	1.56	0.18	11.8	1.5	1.0 - 2.2
TOSOH ST AIA PACK	6	6.05	0.37	6.1	6.1	4.9 - 7.2	6	5.68	0.15	2.6	5.7	5.2 - 6.2

		Specimen CH-10				
All Method	19	1.77	0.38	21.2	1.9	0.6 - 2.9
All TOSOH Instruments	6	6.28	0.51	8.1	6.2	4.7 - 7.9
Beckman ACCESS / 2 / DxI	10	1.91	0.20	10.6	1.9	1.3 - 2.6
TOSOH ST AIA PACK	5	6.24	0.55	8.9	5.9	4.5 - 8.0

Free T$_3$ (pg/mL)

			Specimen CH-6						Specimen CH-7			
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	31	3.65	0.56	15.4	3.5	1.9 - 5.4	31	4.21	0.65	15.4	4.1	2.2 - 6.2
All TOSOH Instruments	6	5.97	0.41	6.9	6.0	4.7 - 7.3	6	7.48	0.29	3.8	7.5	6.6 - 8.4
Beckman ACCESS / 2 / DxI	19	3.38	0.20	5.8	3.4	2.7 - 4.0	19	3.89	0.24	6.1	3.8	3.1 - 4.7
TOSOH ST AIA PACK	5	5.92	0.44	7.5	5.7	4.5 - 7.3	5	7.48	0.32	4.3	7.4	6.5 - 8.5

			Specimen CH-8						Specimen CH-9			
All Method	31	4.83	0.72	14.8	4.7	2.6 - 7.0	31	4.66	0.69	14.7	4.5	2.5 - 6.8
All TOSOH Instruments	6	9.60	0.30	3.2	9.6	8.6 - 10.6	6	8.83	0.43	4.8	8.9	7.5 - 10.2
Beckman ACCESS / 2 / DxI	19	4.43	0.22	5.0	4.4	3.7 - 5.1	19	4.25	0.21	5.0	4.3	3.6 - 4.9
TOSOH ST AIA PACK	5	9.64	0.32	3.3	9.6	8.6 - 10.7	5	8.90	0.44	5.0	9.0	7.5 - 10.3

			Specimen CH-10			
All Method	31	5.10	0.80	15.7	4.9	2.7 - 7.5
All TOSOH Instruments	6	10.55	0.14	1.3	10.5	10.1 - 11.0
Beckman ACCESS / 2 / DxI	19	4.63	0.20	4.3	4.7	4.0 - 5.3
TOSOH ST AIA PACK	5	10.58	0.13	1.2	10.5	10.1 - 11.0

Thyroxine (µg/dL)

			Specimen CH-6						Specimen CH-7			
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	14	3.43	0.71	20.6	3.4	2.4 - 4.5	14	5.93	0.58	9.8	6.2	4.7 - 7.2
All TOSOH Instruments	6	3.47	0.33	9.6	3.5	2.4 - 4.5	6	6.17	0.26	4.2	6.1	4.9 - 7.5
Beckman ACCESS / 2 / DxI	8	3.51	0.41	11.6	3.6	2.5 - 4.6	8	6.86	0.55	8.1	6.8	5.4 - 8.3
TOSOH ST AIA PACK	5	3.36	0.23	6.9	3.4	2.3 - 4.4	5	6.20	0.27	4.4	6.2	4.9 - 7.5

			Specimen CH-8						Specimen CH-9			
All Method	14	9.44	0.78	8.2	9.8	7.5 - 11.4	14	8.20	0.80	9.8	8.5	6.5 - 9.9
All TOSOH Instruments	6	9.40	0.55	5.9	9.5	7.5 - 11.3	6	8.42	0.40	4.8	8.4	6.7 - 10.2
Beckman ACCESS / 2 / DxI	8	10.55	0.78	7.4	10.4	8.4 - 12.7	8	9.55	1.00	10.5	9.7	7.6 - 11.5
TOSOH ST AIA PACK	5	9.60	0.29	3.0	9.5	7.6 - 11.6	5	8.52	0.35	4.1	8.5	6.8 - 10.3

			Specimen CH-10			
All Method	14	10.96	1.03	9.4	11.5	8.7 - 13.2
All TOSOH Instruments	6	10.83	0.93	8.6	11.2	8.6 - 13.0
Beckman ACCESS / 2 / DxI	8	12.16	1.01	8.3	12.0	9.7 - 14.6
TOSOH ST AIA PACK	5	10.72	0.99	9.3	11.0	8.5 - 12.9

Free Thyroxine (ng/dL)

	Specimen CH-6						Specimen CH-7					
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	112	1.33	0.23	16.9	1.3	0.6 - 2.1	112	2.04	0.40	19.6	1.9	0.8 - 3.3
All TOSOH Instruments	21	1.65	0.08	4.9	1.6	1.4 - 1.9	21	2.62	0.15	5.6	2.6	2.1 - 3.1
Abbott Architect	10	1.08	0.08	7.3	1.1	0.8 - 1.4	10	1.75	0.10	5.6	1.7	1.4 - 2.1
Beckman ACCESS / 2 / DxI	46	1.17	0.07	5.7	1.2	0.9 - 1.4	45	1.72	0.09	5.3	1.7	1.4 - 2.0
Siemens Dimension	16	1.38	0.08	5.4	1.4	1.1 - 1.7	16	2.19	0.12	5.4	2.2	1.8 - 2.6
TOSOH ST AIA PACK	16	1.64	0.08	4.9	1.6	1.3 - 1.9	16	2.61	0.16	6.2	2.6	2.1 - 3.1

	Specimen CH-8						Specimen CH-9					
All Method	112	2.80	0.57	20.2	2.6	1.1 - 4.5	112	2.58	0.51	19.7	2.4	1.0 - 4.1
All TOSOH Instruments	21	3.58	0.20	5.6	3.6	2.9 - 4.2	21	3.30	0.18	5.6	3.3	2.7 - 3.9
Beckman ACCESS / 2 / DxI	10	2.56	0.16	6.2	2.5	2.0 - 3.1	10	2.33	0.15	6.4	2.3	1.8 - 2.8
Siemens Dimension	46	2.28	0.14	6.1	2.3	1.8 - 2.7	46	2.12	0.12	5.6	2.1	1.7 - 2.5
TOSOH AIA PACK	16	3.15	0.22	7.1	3.2	2.4 - 3.9	16	2.86	0.19	6.8	2.9	2.2 - 3.5
TOSOH ST AIA PACK	16	3.56	0.18	5.0	3.6	3.0 - 4.1	16	3.28	0.19	5.8	3.3	2.7 - 3.9

	Specimen CH-10					
All Method	114	3.15	0.69	21.8	3.0	1.0 - 5.3
All TOSOH Instruments	21	3.95	0.21	5.2	3.9	3.3 - 4.6
Beckman ACCESS / 2 / DxI	10	2.99	0.23	7.8	3.0	2.2 - 3.7
Siemens Dimension	46	2.50	0.16	6.3	2.5	2.0 - 3.0
TOSOH AIA PACK	16	3.54	0.23	6.6	3.6	2.8 - 4.3
TOSOH ST AIA PACK	16	3.93	0.20	5.1	4.0	3.3 - 4.6

TSH (µU/mL)

| | Specimen CH-6 | | | | | | Specimen CH-7 | | | | | |
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	138	1.27	0.17	13.3	1.2	0.7 - 1.8	138	3.08	0.37	12.0	3.0	1.9 - 4.2
All Abbott Instruments	11	1.19	0.05	4.5	1.2	1.0 - 1.4	11	2.94	0.12	4.1	2.9	2.5 - 3.3
All Roche Instruments	10	1.40	0.07	4.8	1.4	1.2 - 1.6	10	3.18	0.13	4.1	3.2	2.7 - 3.6
All TOSOH Instruments	27	1.48	0.16	10.5	1.5	1.0 - 2.0	27	3.49	0.27	7.8	3.5	2.6 - 4.4
Abbott Architect	11	1.19	0.05	4.5	1.2	1.0 - 1.4	11	2.94	0.12	4.1	2.9	2.5 - 3.3
Beckman ACCESS / 2 / DxI	52	1.22	0.07	6.0	1.2	1.0 - 1.5	52	2.98	0.16	5.2	3.0	2.5 - 3.5
Siemens Dimension	19	1.08	0.09	8.3	1.1	0.8 - 1.4	21	2.64	0.32	12.3	2.6	1.6 - 3.7
TOSOH ST AIA PACK	19	1.44	0.15	10.2	1.4	1.0 - 1.9	19	3.46	0.28	7.9	3.5	2.6 - 4.3

| | Specimen CH-8 | | | | | | Specimen CH-9 | | | | | |
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	137	5.61	0.67	11.9	5.5	3.6 - 7.7	139	4.78	0.60	12.5	4.8	2.9 - 6.6
All Abbott Instruments	11	5.15	0.48	9.3	5.3	3.7 - 6.6	11	4.56	0.23	5.0	4.6	3.8 - 5.3
All Roche Instruments	10	5.47	0.28	5.0	5.5	4.6 - 6.3	10	4.74	0.22	4.6	4.8	4.0 - 5.4
All TOSOH Instruments	26	6.29	0.49	7.8	6.4	4.8 - 7.8	27	5.42	0.45	8.3	5.4	4.0 - 6.8
Abbott Architect	11	5.15	0.48	9.3	5.3	3.7 - 6.6	11	4.56	0.23	5.0	4.6	3.8 - 5.3
Beckman ACCESS / 2 / DxI	52	5.50	0.34	6.2	5.5	4.4 - 6.6	52	4.65	0.28	6.0	4.6	3.8 - 5.5
Siemens Dimension	21	4.87	0.64	13.2	4.6	2.9 - 6.8	21	4.07	0.51	12.5	4.0	2.5 - 5.6
TOSOH ST AIA PACK	19	6.23	0.54	8.7	6.2	4.5 - 7.9	19	5.32	0.43	8.0	5.4	4.0 - 6.6

| | Specimen CH-10 | | | | | |
Method	Labs	Mean	SD	CV	Median	Range
All Method	138	6.75	0.83	12.2	6.7	4.2 - 9.3
All Abbott Instruments	11	6.46	0.26	4.0	6.5	5.6 - 7.3
All Roche Instruments	10	6.51	0.32	4.9	6.6	5.5 - 7.5
All TOSOH Instruments	27	7.56	0.69	9.1	7.6	5.4 - 9.7
Abbott Architect	11	6.46	0.26	4.0	6.5	5.6 - 7.3
Beckman ACCESS / 2 / DxI	52	6.67	0.51	7.6	6.7	5.1 - 8.2
Siemens Dimension	21	5.77	0.80	13.9	5.6	3.3 - 8.2
TOSOH ST AIA PACK	19	7.38	0.60	8.2	7.4	5.5 - 9.2

Serum hCG – Qualitative

Method	Specimen HCG-6 Positive	Specimen HCG-6 Negative	Specimen HCG-7 Positive	Specimen HCG-7 Negative
ALL METHODS	132	-	-	132
AimStep Combo Pregnancy	1	-	-	1
Alere hCG Combo Cassette	2	-	-	2
Beckman ACCESS / 2 / DxI	1	-	-	1
Beckman Coulter ICON 20 hCG	68	-	-	68
Beckman Coulter ICON 25 hCG	4	-	-	4
BTNX Rapid Response hCG	1	-	-	1
Cardinal Health SP Brand combo	14	-	-	14
CONSULT diagnostics hCG Combo	8	-	-	8
Henry Schein One Step + Combo	5	-	-	5
McKesson hCG Combo Cassette	3	-	-	3
Medline hCG Combo Test Cassette	2	-	-	2
PSS Select hCG Combo	1	-	-	1
Quidel QuickVue + One-Step	6	-	-	6
Quidel QuickVue One-Step Combo	13	-	-	13
Sekisui OSOM hCG Combo Test	2	-	-	2
Stanbio QUPID Plus	1	-	-	1

Serum hCG – Qualitative

Method	Specimen HCG-8		Specimen HCG-9	
	Positive	*Negative*	*Positive*	*Negative*
ALL METHODS	132	-	1	131
AimStep Combo Pregnancy	1	-	-	1
Alere hCG Combo Cassette	2	-	-	2
Beckman ACCESS / 2 / DxI	1	-	-	1
Beckman Coulter ICON 20 hCG	68	-	1	67
Beckman Coulter ICON 25 hCG	4	-	-	4
BTNX Rapid Response hCG	1	-	-	1
Cardinal Health SP Brand combo	14	-	-	14
CONSULT diagnostics hCG Combo	8	-	-	8
Henry Schein One Step + Combo	5	-	-	5
McKesson hCG Combo Cassette	3	-	-	3
Medline hCG Combo Test Cassette	2	-	-	2
PSS Select hCG Combo	1	-	-	1
Quidel QuickVue + One-Step	6	-	-	6
Quidel QuickVue One-Step Combo	13	-	-	13
Sekisui OSOM hCG Combo Test	2	-	-	2
Stanbio QUPID Plus	1	-	-	1

Serum hCG – Qualitative

Specimen HCG-10

Method	Positive	Negative
ALL METHODS	131	1
AimStep Combo Pregnancy	1	-
Alere hCG Combo Cassette	2	-
Beckman ACCESS / 2 / DxI	1	-
Beckman Coulter ICON 20 hCG	67	1
Beckman Coulter ICON 25 hCG	4	-
BTNX Rapid Response hCG	1	-
Cardinal Health SP Brand combo	14	-
CONSULT diagnostics hCG Combo	8	-
Henry Schein One Step + Combo	5	-
McKesson hCG Combo Cassette	3	-
Medline hCG Combo Test Cassette	2	-
PSS Select hCG Combo	1	-
Quidel QuickVue + One-Step	6	-
Quidel QuickVue One-Step Combo	13	-
Sekisui OSOM hCG Combo Test	2	-
Stanbio QUPID Plus	1	-

Serum hCG – Quantitative (mIU/mL)

Method	Specimen HCG-6						Specimen HCG-7					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	18	339.6	132.0	38.9	335	75 - 604	18	1.1	0.5	51.1	1	0 - 3

Method	Specimen HCG-8						Specimen HCG-9					
All Method	15	2213.9	1001.3	45.2	2541	211 - 4217	17	1.1	0.6	52.5	1	0 - 3

Method	Specimen HCG-10					
All Method	17	95.6	34.5	36.1	77	26 - 165

Cholesterol, Total (mg/dL)

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-6							**Specimen CH-7**		
All Method	164	87.2	7.6	8.7	85	78 - 96	165	119.7	4.3	3.6	120	107 - 132
All Alfa Wassermann Reagents	18	88.2	2.4	2.8	88	79 - 97	18	124.6	3.3	2.7	124	112 - 138
All Horiba Pentra Reagents	14	83.7	2.6	3.1	85	75 - 93	14	120.4	3.9	3.2	122	108 - 133
All Roche Reagents	15	82.9	2.1	2.5	83	74 - 92	15	119.1	2.3	2.0	119	107 - 131
Abaxis Piccolo												
All Chemistry Instruments	5	89.4	16.7	18.7	82	80 - 99	5	110.6	17.2	15.5	117	99 - 122
Alere Cholestech LDX												
Alere Cholestech LDX - waived	35	100.0	0.1	0.0	100	90 - 110	39	117.3	5.4	4.6	117	105 - 130
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	88.2	2.4	2.8	88	79 - 97	18	124.6	3.3	2.7	124	112 - 138
Beckman AU												
Beckman AU systems	23	82.7	2.4	2.9	83	74 - 91	23	119.0	3.3	2.8	119	107 - 131
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	83.7	2.6	3.1	85	75 - 93	14	120.4	3.9	3.2	122	108 - 133
Roche cobas c 501												
Roche cobas 6000 / c 501	8	82.8	2.4	2.9	83	74 - 92	8	119.5	2.5	2.1	119	107 - 132
Roche Integra												
Roche Integra	6	82.8	1.8	2.2	83	74 - 92	6	118.0	1.8	1.5	119	106 - 130
Siemens Healthcare												
Siemens Dimension	21	84.2	2.9	3.4	84	75 - 93	22	119.5	3.9	3.3	120	107 - 132
All Chemistry Instruments	22	84.3	2.8	3.3	84	75 - 93	23	119.6	3.8	3.2	120	107 - 132
VITROS												
VITROS 250,350,400 500,700,750,950	15	79.5	3.1	3.9	79	71 - 88	15	119.9	4.0	3.3	119	107 - 132
All Chemistry Instruments	18	79.3	2.9	3.7	79	71 - 88	18	119.5	3.9	3.2	119	107 - 132

Cholesterol, Total (mg/dL)

Reagent/Instrument	Specimen CH-8						Specimen CH-9				
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	130	174.7	5.6	3.2	175	157 - 193	129	156.6	5.0	3.2	157	140 - 173
All Alfa Wassermann Reagents	17	178.0	4.7	2.6	178	160 - 196	18	161.3	6.1	3.8	161	145 - 178
All Horiba Pentra Reagents	14	173.4	6.4	3.7	174	156 - 191	14	156.7	7.5	4.8	157	141 - 173
All Roche Reagents	15	173.7	3.1	1.8	174	156 - 192	15	155.5	3.7	2.4	155	139 - 172
Abaxis Piccolo											
All Chemistry Instruments	3	-	-	-	170	153 - 187	3	-	-	-	150	134 - 165
Alere Cholestech LDX											
Alere Cholestech LDX - waived	5	173.6	12.6	7.3	176	156 - 191	5	160.2	8.6	5.4	160	144 - 177
Alfa Wassermann											
Alfa Wassermann ACE Alera/Axcel	17	178.0	4.7	2.6	178	160 - 196	18	161.3	6.1	3.8	161	145 - 178
Beckman AU											
Beckman AU systems	23	172.8	5.3	3.1	173	155 - 191	23	154.8	3.6	2.3	154	139 - 171
Horiba ABX Pentra											
Horiba ABX Pentra 400 / C400	14	173.4	6.4	3.7	174	156 - 191	14	156.7	7.5	4.8	157	141 - 173
Roche cobas c 501											
Roche cobas 6000 / c 501	8	174.8	3.1	1.8	175	157 - 193	8	156.1	4.4	2.8	156	140 - 172
Roche Integra											
Roche Integra	6	172.2	2.9	1.7	172	154 - 190	6	154.5	3.1	2.0	154	139 - 170
Siemens Healthcare											
Siemens Dimension	23	172.9	5.6	3.3	173	155 - 191	23	155.1	4.6	3.0	156	139 - 171
All Chemistry Instruments	24	173.2	5.6	3.3	173	155 - 191	24	155.8	5.6	3.6	156	140 - 172
VITROS											
VITROS 250,350,400 500,700,750,950	15	178.5	5.9	3.3	178	160 - 197	15	159.6	5.2	3.3	158	143 - 176
All Chemistry Instruments	18	178.4	5.4	3.1	179	160 - 197	18	159.2	4.8	3.0	158	143 - 176

Cholesterol, Total (mg/dL)

Specimen CH-10

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	127	201.0	5.9	2.9	201	180 - 222
All Alfa Wassermann Reagents	16	204.4	6.8	3.3	205	183 - 225
All Horiba Pentra Reagents	14	199.9	7.0	3.5	202	179 - 220
All Roche Reagents	15	198.9	3.5	1.8	199	178 - 219
Abaxis Piccolo						
All Chemistry Instruments	3	-	-	-	190	170 - 209
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	208.8	20.2	9.7	202	187 - 230
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	204.4	6.8	3.3	205	183 - 225
Beckman AU						
Beckman AU systems	23	199.2	4.8	2.4	199	179 - 220
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	14	199.9	7.0	3.5	202	179 - 220
Roche cobas c 501						
Roche cobas 6000 / c 501	8	200.0	3.9	1.9	200	180 - 220
Roche Integra						
Roche Integra	6	196.8	1.9	1.0	197	177 - 217
Siemens Healthcare						
Siemens Dimension	23	201.0	5.1	2.5	201	180 - 222
All Chemistry Instruments	24	201.0	5.0	2.5	201	180 - 222
VITROS						
VITROS 250,350,400 500,700,750,950	15	205.7	5.9	2.9	206	185 - 227
All Chemistry Instruments	18	206.2	5.6	2.7	207	185 - 227

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-6 / Specimen CH-7

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	82	25.6	6.0	23.6	26	13 - 38	118	43.3	8.2	18.9	43	26 - 60
Calculated-Trig/5												
Alere Cholestech LDX - waived	1	-	-	-	56	13 - 38	36	49.3	6.8	13.7	49	34 - 65
Alfa Wassermann ACE Alera/Axcel	14	27.7	3.2	11.4	27	19 - 37	14	44.6	4.0	9.0	44	31 - 58
Beckman AU systems	15	27.6	3.3	12.0	28	19 - 36	15	42.1	5.1	12.1	43	29 - 55
Horiba ABX Pentra 400 / C400	10	31.7	5.3	16.7	32	21 - 43	10	50.4	5.0	9.9	50	35 - 66
Siemens Dimension	9	19.0	2.7	14.4	18	13 - 25	10	31.0	7.7	24.9	32	15 - 47
VITROS 250,350,400 500,700,750,950	10	19.0	4.6	24.3	19	9 - 29	10	40.2	19.1	47.6	33	1 - 79
All Chemistry Instruments	78	25.6	6.1	23.9	26	13 - 38	114	43.3	8.3	19.1	44	26 - 60

Specimen CH-8 / Specimen CH-9

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	87	62.5	10.6	17.0	63	41 - 84	87	55.6	9.2	16.5	57	37 - 75
Calculated-Trig/5												
Alere Cholestech LDX - waived	5	68.6	7.4	10.8	72	48 - 90	5	61.2	2.8	4.5	62	42 - 80
Alfa Wassermann ACE Alera/Axcel	14	68.1	8.4	12.4	66	47 - 89	14	59.6	6.6	11.1	59	41 - 78
Beckman AU systems	15	63.7	7.1	11.1	64	44 - 83	15	56.5	5.8	10.3	57	39 - 74
Horiba ABX Pentra 400 / C400	10	74.0	7.7	10.4	75	51 - 97	10	66.9	6.6	9.9	67	46 - 87
Siemens Dimension	10	54.7	6.1	11.1	55	38 - 72	10	47.3	5.1	10.8	48	33 - 62
VITROS 250,350,400 500,700,750,950	10	52.5	8.3	15.8	53	35 - 70	10	47.5	7.2	15.3	47	33 - 62
All Chemistry Instruments	83	62.3	10.8	17.3	63	40 - 84	83	55.5	9.4	16.9	57	36 - 75

Specimen CH-10

Method	Labs	Mean	SD	CV	Median	Range
All Method	83	71.5	10.4	14.5	71	50 - 93
Calculated-Trig/5						
Alere Cholestech LDX - waived	4	-	-	-	68	50 - 93
Alfa Wassermann ACE Alera/Axcel	13	77.5	5.5	7.1	79	54 - 101
Beckman AU systems	15	75.4	5.7	7.6	77	52 - 99
Horiba ABX Pentra 400 / C400	10	85.9	10.2	11.9	87	60 - 112
Siemens Dimension	10	68.5	5.0	7.3	69	47 - 90
VITROS 250,350,400 500,700,750,950	10	64.4	17.8	27.7	61	28 - 101
All Chemistry Instruments	79	71.5	10.4	14.6	72	50 - 93

LDL Cholesterol - Direct (mg/dL)

	Specimen CH-6						Specimen CH-7				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	42	27.8	7.9	28.4	27	11 - 44	42	41.1	11.8	28.6	39	17 - 65
Beckman AU Direct HDL / LDL												
Beckman AU systems	12	19.8	1.5	7.4	20	13 - 26	12	29.1	1.7	5.9	29	20 - 38
Roche LDL Direct												
Roche cobas 6000 / c 501	6	38.5	8.1	21.1	42	22 - 55	6	57.5	11.1	19.3	62	35 - 80
All Chemistry Instruments	9	39.6	6.6	16.8	41	26 - 53	9	58.9	9.0	15.4	61	40 - 77
Siemens Automated LDL												
Siemens Dimension	11	29.0	2.3	8.0	30	20 - 38	11	43.2	2.5	5.8	43	30 - 57

	Specimen CH-8						Specimen CH-9				
All Method	42	60.8	17.4	28.7	58	25 - 96	42	54.0	15.2	28.2	51	23 - 85
Beckman AU Direct HDL / LDL												
Beckman AU systems	12	43.5	2.7	6.3	44	30 - 57	12	38.6	2.4	6.3	38	27 - 51
Roche LDL Direct												
Roche cobas 6000 / c 501	6	85.0	16.8	19.8	91	51 - 119	6	75.5	14.6	19.3	81	46 - 105
All Chemistry Instruments	9	87.0	13.7	15.7	90	59 - 115	9	77.2	11.9	15.3	81	53 - 101
Siemens Automated LDL												
Siemens Dimension	11	63.5	5.6	8.8	62	44 - 83	11	55.8	3.2	5.7	56	39 - 73

	Specimen CH-10					
All Method	41	70.1	20.1	28.7	65	29 - 111
Beckman AU Direct HDL / LDL						
Beckman AU systems	12	50.5	3.4	6.8	50	35 - 66
Roche LDL Direct						
Roche cobas 6000 / c 501	6	99.0	18.3	18.4	106	62 - 136
All Chemistry Instruments	9	100.9	14.8	14.7	104	70 - 132
Siemens Automated LDL						
Siemens Dimension	11	71.3	3.1	4.4	71	49 - 93

Cholesterol, HDL (mg/dL)

Reagent/Instrument	Specimen CH-6						Specimen CH-7					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	166	33.7	6.7	20.0	34	23 - 44	166	47.8	7.9	16.5	47	33 - 63
All Dex-Sulfate 50,000 MW Methods	37	25.2	3.4	13.4	25	17 - 33	38	39.2	5.3	13.6	40	27 - 52
All Direct Methods	109	36.1	5.7	15.9	35	25 - 47	108	50.3	6.7	13.3	50	35 - 66
Abaxis Piccolo												
All Chemistry Instruments	5	27.4	3.0	10.8	27	19 - 36	5	41.8	9.0	21.6	45	29 - 55
Alere Cholestech LDX												
Alere Cholestech LDX - waived	37	25.2	3.4	13.4	25	17 - 33	38	39.2	5.3	13.6	40	27 - 52
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	18	37.3	3.1	8.2	38	26 - 49	18	50.4	4.4	8.7	51	35 - 66
All Chemistry Instruments	19	37.0	3.2	8.7	37	25 - 49	19	50.1	4.4	8.8	51	35 - 66
Beckman AU Direct HDL / LDL												
Beckman AU systems	21	32.8	2.2	6.8	33	22 - 43	21	46.7	3.5	7.4	46	32 - 61
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	30.2	3.5	11.6	30	21 - 40	14	41.4	3.7	8.8	43	29 - 54
Roche HDL Direct												
Roche cobas 6000 / c 501	8	38.3	1.3	3.4	38	26 - 50	8	56.3	2.0	3.5	56	39 - 74
Roche Integra	5	37.8	2.6	6.8	38	26 - 50	5	54.8	4.1	7.5	56	38 - 72
All Chemistry Instruments	14	38.1	1.7	4.6	38	26 - 50	14	55.9	2.9	5.1	56	39 - 73
Siemens Automated HDL												
Siemens Dimension	22	44.4	1.3	3.0	45	31 - 58	22	58.6	1.8	3.1	58	41 - 77
All Chemistry Instruments	23	44.4	1.3	2.9	45	31 - 58	23	58.6	1.8	3.0	58	40 - 77
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	11	36.4	1.4	3.9	36	25 - 48	11	52.3	1.6	3.1	52	36 - 68
All Chemistry Instruments	14	36.6	1.4	3.8	37	25 - 48	14	52.9	1.9	3.5	53	37 - 69

Cholesterol, HDL (mg/dL)

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-8							**Specimen CH-9**		
All Method	130	72.3	8.0	11.1	73	50 - 94	130	64.7	7.6	11.7	66	45 - 85
All Dex-Sulfate 50,000 MW Methods	5	65.2	8.2	12.6	61	45 - 85	5	61.4	7.9	12.8	62	42 - 80
All Direct Methods	106	71.5	7.8	10.9	71	50 - 93	106	64.0	7.7	12.0	65	44 - 84
Abaxis Piccolo												
All Chemistry Instruments	3	-	-	-	67	45 - 86	3	-	-	-	53	35 - 67
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	65.2	8.2	12.6	61	45 - 85	5	61.4	7.9	12.8	62	42 - 80
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	18	70.2	4.8	6.9	71	49 - 92	18	63.7	4.3	6.7	65	44 - 83
All Chemistry Instruments	19	70.0	4.8	6.8	71	49 - 91	19	63.5	4.3	6.8	65	44 - 83
Beckman AU Direct HDL / LDL												
Beckman AU systems	21	68.2	4.2	6.2	67	47 - 89	21	60.9	4.3	7.1	61	42 - 80
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	60.4	6.2	10.2	61	42 - 79	14	53.1	5.7	10.8	53	37 - 69
Roche HDL Direct												
Roche cobas 6000 / c 501	8	82.3	2.8	3.4	81	57 - 107	8	73.6	2.4	3.3	73	51 - 96
Roche Integra	5	82.0	5.2	6.4	84	57 - 107	5	73.6	5.0	6.8	75	51 - 96
All Chemistry Instruments	14	82.3	3.6	4.4	83	57 - 107	14	73.8	3.4	4.6	75	51 - 96
Siemens Automated HDL												
Siemens Dimension	22	78.5	2.3	3.0	78	54 - 102	22	71.4	2.1	2.9	71	49 - 93
All Chemistry Instruments	23	78.3	2.4	3.0	78	54 - 102	23	71.2	2.2	3.0	71	49 - 93
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	11	79.7	3.0	3.8	80	55 - 104	11	70.5	2.9	4.1	70	49 - 92
All Chemistry Instruments	14	80.1	2.9	3.6	81	56 - 105	14	70.9	2.8	3.9	71	49 - 93

Cholesterol, HDL (mg/dL)

Specimen CH-10

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	128	83.4	9.0	10.8	84	58 - 109
All Dex-Sulfate 50,000 MW Methods	5	87.8	9.3	10.6	88	61 - 115
All Direct Methods	104	81.5	8.2	10.0	80	57 - 106
Abaxis Piccolo						
All Chemistry Instruments	3	-	-	-	80	55 - 103
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	87.8	9.3	10.6	88	61 - 115
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	16	78.9	5.1	6.5	79	55 - 103
All Chemistry Instruments	17	78.8	5.0	6.4	79	55 - 103
Beckman AU Direct HDL / LDL						
Beckman AU systems	21	78.5	4.4	5.6	79	54 - 103
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	14	69.9	7.5	10.8	70	48 - 91
Roche HDL Direct						
Roche cobas 6000 / c 501	8	94.3	2.8	3.0	94	65 - 123
Roche Integra	5	93.8	5.8	6.1	95	65 - 122
All Chemistry Instruments	14	94.3	3.9	4.1	95	66 - 123
Siemens Automated HDL						
Siemens Dimension	22	87.5	2.7	3.1	87	61 - 114
All Chemistry Instruments	23	87.3	2.7	3.1	87	61 - 114
VITROS dHDL Slide						
VITROS 250,350,400 500,700,750,950	11	94.5	3.3	3.5	95	66 - 123
All Chemistry Instruments	14	94.7	3.5	3.7	96	66 - 124

Triglycerides (mg/dL)

Reagent/Instrument	Specimen CH-6						Specimen CH-7					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	164	110.2	6.0	5.4	110	82 - 138	163	147.6	7.7	5.2	147	110 - 185
All Alfa Wassermann Reagents	18	117.2	3.0	2.6	117	87 - 147	18	153.8	5.3	3.4	155	115 - 193
All Horiba Pentra Reagents	14	112.1	3.1	2.8	112	84 - 141	14	148.6	5.9	3.9	147	111 - 186
All Roche Reagents	15	111.4	3.2	2.8	111	83 - 140	15	147.2	3.5	2.4	147	110 - 184
Abaxis Piccolo												
All Chemistry Instruments	5	117.0	7.5	6.4	114	87 - 147	5	144.4	18.2	12.6	152	108 - 181
Alere Cholestech LDX												
Alere Cholestech LDX - waived	37	108.2	3.2	2.9	107	81 - 136	36	144.6	4.4	3.0	144	108 - 181
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	117.2	3.0	2.6	117	87 - 147	18	153.8	5.3	3.4	155	115 - 193
Beckman AU												
Beckman AU systems	23	110.4	4.4	4.0	112	82 - 138	23	147.7	5.8	3.9	149	110 - 185
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	112.1	3.1	2.8	112	84 - 141	14	148.6	5.9	3.9	147	111 - 186
Roche cobas c 501												
Roche cobas 6000 / c 501	8	109.5	2.4	2.2	109	82 - 137	8	145.4	3.0	2.0	145	109 - 182
Roche Integra												
Roche Integra	6	113.5	2.7	2.4	114	85 - 142	6	149.7	3.1	2.1	149	112 - 188
Siemens Healthcare												
Siemens Dimension	23	101.3	3.3	3.3	101	75 - 127	23	137.7	2.2	1.6	138	103 - 173
All Chemistry Instruments	24	101.8	3.9	3.8	102	76 - 128	23	137.7	2.2	1.6	138	103 - 173
VITROS												
VITROS 250,350,400 500,700,750,950	15	117.7	3.6	3.0	117	88 - 148	15	159.9	4.9	3.0	158	119 - 200
All Chemistry Instruments	18	117.3	3.4	2.9	117	87 - 147	18	159.4	4.7	2.9	158	119 - 200

Triglycerides (mg/dL)

Reagent/Instrument	Specimen CH-8						Specimen CH-9					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	132	203.4	12.1	5.9	202	152 - 255	132	185.2	10.6	5.7	185	138 - 232
All Alfa Wassermann Reagents	18	209.6	9.2	4.4	210	157 - 263	18	191.5	5.6	2.9	191	143 - 240
All Horiba Pentra Reagents	14	199.1	5.9	3.0	198	149 - 249	14	181.1	7.4	4.1	182	135 - 227
All Roche Reagents	15	199.1	4.3	2.2	197	149 - 249	15	182.0	4.5	2.5	182	136 - 228
Abaxis Piccolo												
All Chemistry Instruments	3	-	-	-	212	159 - 265	3	-	-	-	193	144 - 241
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	198.2	13.5	6.8	199	148 - 248	5	187.0	10.6	5.7	189	140 - 234
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	209.6	9.2	4.4	210	157 - 263	18	191.5	5.6	2.9	191	143 - 240
Beckman AU												
Beckman AU systems	22	204.4	6.2	3.0	203	153 - 256	22	185.6	4.8	2.6	186	139 - 232
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	199.1	5.9	3.0	198	149 - 249	14	181.1	7.4	4.1	182	135 - 227
Roche cobas c 501												
Roche cobas 6000 / c 501	8	197.1	3.3	1.7	197	147 - 247	8	179.9	3.7	2.0	181	134 - 225
Roche Integra												
Roche Integra	6	201.8	4.7	2.3	202	151 - 253	6	185.2	4.3	2.3	184	138 - 232
Siemens Healthcare												
Siemens Dimension	23	191.9	2.6	1.3	192	143 - 240	23	173.8	2.9	1.6	173	130 - 218
All Chemistry Instruments	23	191.9	2.6	1.3	192	143 - 240	23	173.8	2.9	1.6	173	130 - 218
VITROS												
VITROS 250,350,400 500,700,750,950	15	224.5	5.8	2.6	224	168 - 281	15	202.4	4.9	2.4	202	151 - 253
All Chemistry Instruments	18	223.6	5.9	2.6	223	167 - 280	18	201.6	5.1	2.5	202	151 - 252

Triglycerides (mg/dL)

Specimen CH-10

Reagent/Instrument	Labs	Mean	SD	CV	Median	Range
All Method	131	230.0	14.4	6.3	227	172 - 288
All Alfa Wassermann Reagents	16	235.0	6.5	2.8	236	176 - 294
All Horiba Pentra Reagents	14	223.7	7.5	3.3	223	167 - 280
All Roche Reagents	15	223.6	5.0	2.2	223	167 - 280
Abaxis Piccolo						
All Chemistry Instruments	3	-	-	-	243	182 - 305
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	236.4	18.4	7.8	227	177 - 296
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	235.0	6.5	2.8	236	176 - 294
Beckman AU						
Beckman AU systems	22	230.8	5.9	2.6	230	173 - 289
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	14	223.7	7.5	3.3	223	167 - 280
Roche cobas c 501						
Roche cobas 6000 / c 501	8	221.4	3.7	1.7	220	166 - 277
Roche Integra						
Roche Integra	6	226.7	5.5	2.4	227	170 - 284
Siemens Healthcare						
Siemens Dimension	23	217.8	2.6	1.2	218	163 - 273
All Chemistry Instruments	23	217.8	2.6	1.2	218	163 - 273
VITROS						
VITROS 250,350,400 500,700,750,950	15	256.3	6.0	2.4	256	192 - 321
All Chemistry Instruments	18	255.7	6.1	2.4	256	191 - 320

Acetaminophen (µg/mL)

		Specimen CH-6						Specimen CH-7			
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	5	28.23	0.91	3.2	28.6	23.9 - 32.5	5	53.73	1.59	3.0	54.6	45.6 - 61.8

		Specimen CH-8						Specimen CH-9			
All Method	5	93.80	0.61	0.6	94.1	79.7 - 107.9	5	80.50	0.95	1.2	81.0	68.4 - 92.6

		Specimen CH-10				
All Method	5	112.93	0.35	0.3	112.9	95.9 - 129.9

Carbamazepine (µg/mL)

		Specimen CH-6						Specimen CH-7			
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	5	3.93	0.45	11.5	3.9	2.9 - 5.0	5	6.37	0.15	2.4	6.4	4.7 - 8.0

		Specimen CH-8						Specimen CH-9			
All Method	5	9.87	1.33	13.5	9.2	7.4 - 12.4	5	8.53	0.93	10.9	8.1	6.3 - 10.7

		Specimen CH-10				
All Method	5	11.77	1.85	15.7	10.7	8.8 - 14.8

Digoxin (ng/mL)

Method	Specimen CH-6						Specimen CH-7					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	6	0.73	0.15	20.8	0.7	0.5 - 1.0	6	1.10	0.10	9.1	1.1	0.8 - 1.4
	Specimen CH-8						Specimen CH-9					
All Method	6	1.63	0.12	7.1	1.7	1.3 - 2.0	6	1.50	0.10	6.7	1.5	1.2 - 1.8
	Specimen CH-10											
All Method	6	1.97	0.06	2.9	2.0	1.5 - 2.4						

Gentamicin (µg/mL)

		Specimen CH-6						Specimen CH-7				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	5	2.00	0.14	7.1	2.0	1.0 - 3.0	5	4.00	0.14	3.5	4.0	3.0 - 5.0
		Specimen CH-8						Specimen CH-9				
All Method	5	6.70	0.01	0.0	6.7	5.0 - 8.4	5	5.60	0.14	2.5	5.6	4.2 - 7.0
		Specimen CH-10										
All Method	5	7.70	0.28	3.7	7.7	5.7 - 9.7						

Lithium (mmol/L)

		Specimen CH-6						Specimen CH-7				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	6	0.63	0.06	9.1	0.6	0.3 - 1.0	6	0.93	0.12	12.4	1.0	0.6 - 1.3
		Specimen CH-8						Specimen CH-9				
All Method	6	1.73	0.06	3.3	1.7	1.3 - 2.1	6	1.47	0.15	10.4	1.5	1.1 - 1.8
		Specimen CH-10										
All Method	6	2.00	0.10	5.0	2.0	1.6 - 2.4						

Phenobarbital (µg/mL)

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-6							**Specimen CH-7**		
All Method	2	-	-	-	9.1	Not graded	2	-	-	-	17.8	Not graded
			Specimen CH-8							**Specimen CH-9**		
All Method	2	-	-	-	30.3	Not graded	2	-	-	-	26.1	Not graded
			Specimen CH-10									
All Method	2	-	-	-	36.8	Not graded						

Phenytoin (µg/mL)

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CH-6							**Specimen CH-7**		
All Method	7	9.44	0.57	6.0	9.4	7.0 - 11.8	7	14.14	0.57	4.0	14.3	10.6 - 17.7
Siemens Dimension	5	9.40	0.65	6.9	9.3	7.0 - 11.8	5	14.20	0.64	4.5	14.4	10.6 - 17.8
			Specimen CH-8							**Specimen CH-9**		
All Method	7	21.70	0.85	3.9	21.7	16.2 - 27.2	7	19.36	0.82	4.2	19.5	14.5 - 24.2
Siemens Dimension	5	22.00	0.61	2.8	21.8	16.5 - 27.5	5	19.68	0.48	2.4	19.7	14.7 - 24.6
			Specimen CH-10									
All Method	7	25.16	1.49	5.9	25.2	18.8 - 31.5						
Siemens Dimension	5	25.55	1.40	5.5	25.7	19.1 - 32.0						

Salicylate (mg/dL)

		Specimen CH-6						Specimen CH-7				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	5	10.15	0.07	0.7	10.2	7.6 - 12.7	5	15.75	0.35	2.2	15.8	11.8 - 19.7
		Specimen CH-8						Specimen CH-9				
All Method	5	23.30	0.14	0.6	23.3	17.4 - 29.2	5	21.00	0.28	1.3	21.0	15.7 - 26.3
		Specimen CH-10										
All Method	5	27.30	0.85	3.1	27.3	20.4 - 34.2						

Theophylline (µg/mL)

		Specimen CH-6						Specimen CH-7				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	2	-	-	-	11.9	Not graded	2	-	-	-	16.8	Not graded
		Specimen CH-8						Specimen CH-9				
All Method	2	-	-	-	24.5	Not graded	2	-	-	-	22.0	Not graded
		Specimen CH-10										
All Method	2	-	-	-	27.8	Not graded						

Valproic Acid (µg/mL)

		Specimen CH-6						Specimen CH-7				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	7	43.90	2.12	4.8	44.9	32.9 - 54.9	7	61.08	2.83	4.6	59.5	45.8 - 76.4
Siemens Dimension	5	44.38	2.11	4.8	45.1	33.2 - 55.5	5	61.60	2.98	4.8	61.7	46.2 - 77.0

		Specimen CH-8						Specimen CH-9				
All Method	7	85.64	2.38	2.8	84.8	64.2 - 107.1	7	74.80	3.02	4.0	75.2	56.1 - 93.5
Siemens Dimension	5	86.30	2.15	2.5	86.2	64.7 - 107.9	5	74.50	3.40	4.6	74.5	55.8 - 93.2

		Specimen CH-10				
All Method	7	97.34	3.56	3.7	98.7	73.0 - 121.7
Siemens Dimension	5	98.43	3.01	3.1	99.0	73.8 - 123.1

Vancomycin (µg/mL)

		Specimen CH-6						Specimen CH-7				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	6	8.33	0.35	4.2	8.4	6.2 - 10.5	6	18.58	1.46	7.9	18.8	13.9 - 23.3
Siemens Dimension	5	8.47	0.25	3.0	8.5	6.3 - 10.6	5	19.23	0.78	4.0	19.0	14.4 - 24.1

		Specimen CH-8						Specimen CH-9				
All Method	6	33.90	1.59	4.7	34.2	25.4 - 42.4	6	28.75	2.70	9.4	29.6	21.5 - 36.0
Siemens Dimension	5	34.63	0.75	2.2	34.2	25.9 - 43.3	5	30.03	1.03	3.4	30.3	22.5 - 37.6

		Specimen CH-10				
All Method	6	42.30	2.97	7.0	43.2	31.7 - 52.9
Siemens Dimension	5	43.63	1.59	3.6	44.5	32.7 - 54.6

Blood Lead (µg/dL)

		Specimen LED-3						Specimen LED-4				
Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	20	10.57	1.64	15.5	10.2	6.5 - 14.6	13	33.44	2.49	7.4	33.3	29.4 - 37.5
All Magellan Diagnostics Methods	20	10.57	1.64	15.5	10.2	6.5 - 14.6	13	33.44	2.49	7.4	33.3	29.4 - 37.5
Magellan Diagnostics LeadCare II	20	10.57	1.64	15.5	10.2	6.5 - 14.6	13	33.44	2.49	7.4	33.3	29.4 - 37.5

Neonatal Bilirubin, Total (mg/dL)

		Specimen NB-6						Specimen NB-7				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	27	17.70	1.38	7.8	17.9	14.1 - 21.3	27	0.08	0.13	163.4	0.0	0.0 - 0.5
No Reagent Required												
Bilirubinometer / Unistat	17	18.02	1.36	7.6	18.6	14.4 - 21.7	17	0.00	0.01	0.0	0.0	0.0 - 0.4
All Chemistry Instruments	21	17.99	1.35	7.5	18.3	14.3 - 21.6	21	0.07	0.15	219.1	0.0	0.0 - 0.5

		Specimen NB-8						Specimen NB-9				
All Method	27	6.99	0.47	6.8	7.0	5.5 - 8.4	27	18.84	1.52	8.1	19.0	15.0 - 22.7
No Reagent Required												
Bilirubinometer / Unistat	17	6.98	0.47	6.7	7.1	5.5 - 8.4	17	19.38	1.25	6.4	19.9	15.5 - 23.3
All Chemistry Instruments	21	7.07	0.51	7.2	7.1	5.6 - 8.5	21	19.20	1.27	6.6	19.7	15.3 - 23.1

		Specimen NB-10				
All Method	27	12.23	1.04	8.5	12.4	9.7 - 14.7
No Reagent Required						
Bilirubinometer / Unistat	17	12.54	0.84	6.7	12.9	10.0 - 15.1
All Chemistry Instruments	21	12.44	0.99	8.0	12.8	9.9 - 15.0

Bilirubin, Direct (mg/dL)

		Specimen NB-6						Specimen NB-7				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	10	5.98	0.42	7.0	5.9	5.1 - 6.9	10	0.14	0.15	113.2	0.1	0.0 - 0.5

		Specimen NB-8						Specimen NB-9				
All Method	10	1.70	0.29	17.3	1.7	1.1 - 2.3	10	4.05	0.43	10.6	4.0	3.1 - 5.0

		Specimen NB-10				
All Method	10	5.10	0.62	12.1	5.1	3.8 - 6.4

Blood Gases – pH

		Specimen BG-6						Specimen BG-7				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	11	7.178	0.005	0.1	7.18	7.13 - 7.22	11	7.508	0.005	0.1	7.51	7.46 - 7.55
i-STAT	11	7.178	0.005	0.1	7.18	7.13 - 7.22	11	7.508	0.005	0.1	7.51	7.46 - 7.55

		Specimen BG-8						Specimen BG-9				
All Method	11	7.145	0.010	0.1	7.15	7.10 - 7.19	11	7.475	0.006	0.1	7.48	7.43 - 7.52
i-STAT	11	7.145	0.010	0.1	7.15	7.10 - 7.19	11	7.475	0.006	0.1	7.48	7.43 - 7.52

		Specimen BG-10				
All Method	11	7.510	0.001	0.0	7.51	7.47 - 7.55
i-STAT	11	7.510	0.001	0.0	7.51	7.47 - 7.55

Blood Gases - pCO₂ (mmHg)

Method		Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
				Specimen BG-6							**Specimen BG-7**		
All Method		11	55.53	1.48	2.7	55.3	50.5 - 60.6	11	27.73	0.46	1.7	27.8	22.7 - 32.8
i-STAT		11	55.53	1.48	2.7	55.3	50.5 - 60.6	11	27.73	0.46	1.7	27.8	22.7 - 32.8
				Specimen BG-8							**Specimen BG-9**		
All Method		11	70.03	1.95	2.8	70.4	64.4 - 75.7	11	19.43	0.62	3.2	19.5	14.4 - 24.5
i-STAT		11	70.03	1.95	2.8	70.4	64.4 - 75.7	11	19.43	0.62	3.2	19.5	14.4 - 24.5
				Specimen BG-10									
All Method		11	26.55	2.21	8.3	27.0	21.5 - 31.6						
i-STAT		11	26.55	2.21	8.3	27.0	21.5 - 31.6						

Blood Gases - pO₂ (mmHg)

Method		Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
				Specimen BG-6							**Specimen BG-7**		
All Method		11	85.00	4.90	5.8	84.0	70.3 - 99.7	11	116.50	3.87	3.3	115.5	104.8 - 128.2
i-STAT		11	85.00	4.90	5.8	84.0	70.3 - 99.7	11	116.50	3.87	3.3	115.5	104.8 - 128.2
				Specimen BG-8							**Specimen BG-9**		
All Method		11	96.50	7.51	7.8	96.5	73.9 - 119.1	11	165.75	2.06	1.2	166.0	159.5 - 172.0
i-STAT		11	96.50	7.51	7.8	96.5	73.9 - 119.1	11	165.75	2.06	1.2	166.0	159.5 - 172.0
				Specimen BG-10									
All Method		11	115.75	2.22	1.9	116.0	109.0 - 122.5						
i-STAT		11	115.75	2.22	1.9	116.0	109.0 - 122.5						

Blood Gases – Ionized Calcium (mmol/L)

One participant reported results for Blood Gases-Ionized Calcium. The vendor mean assay values for specimens BG-6 through BG-10 are: 2.0 mmol/L, 0.90 mmol/L, 2.19 mmol/L, 0.77 mmol/L, and 0.90 mmolL, respectively.

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride.   The vendor mean assay values for specimens BG-6 through BG-10 are: 75 mmol/L, 107 mmol/L, 86 mmol/L, 102 mmol/L, and 107 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-6 through BG-10 are: 2.7 mmol/L, 6.6 mmol/L, 3.8 mmol/L, 6.2 mmol/L, and 6.6 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-6 through BG-10 are: 124 mmol/L, 160 mmol/L, 138 mmol/L, 145 mmol/L, and 160 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

			Specimen BG-6						Specimen BG-7			
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	3	-	-	-	5.0	Not graded	3	-	-	-	1.3	Not graded
i-STAT	3	-	-	-	5.0	Not graded	3	-	-	-	1.3	Not graded

			Specimen BG-8						Specimen BG-9			
All Method	3	-	-	-	3.8	Not graded	3	-	-	-	1.3	Not graded
	3	-	-	-	3.8	Not graded	3	-	-	-	1.3	Not graded

			Specimen BG-10			
All Method	3	-	-	-	1.3	Not graded
	3	-	-	-	1.3	Not graded

Afinion Glycohemoglobin (percent)

			Specimen AFN-3						Specimen AFN-4			
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	80	8.51	0.14	1.6	8.5	8.0 - 9.0	80	5.95	0.13	2.2	5.9	5.6 - 6.3
All Alere Afinion Analyzers	80	8.51	0.14	1.6	8.5	8.0 - 9.0	80	5.95	0.13	2.2	5.9	5.6 - 6.3
Alere Afinion 2	18	8.47	0.16	1.9	8.4	8.0 - 8.9	18	5.91	0.13	2.2	5.9	5.6 - 6.3
Alere Afinion AS100	62	8.53	0.13	1.5	8.5	8.0 - 9.0	62	5.96	0.13	2.1	6.0	5.6 - 6.3

Glycohemoglobin (percent)

	Specimen GH-3						Specimen GH-4				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	78	3.73	0.27	7.2	3.8	3.5 - 4.0	101	4.86	0.35	7.2	4.9	4.6 - 5.2
All Bio-Rad Methods	4	-	-	-	3.4	3.1 - 3.6	5	4.85	0.13	2.7	4.9	4.6 - 5.1
All Hemoglobin A1c Methods	77	3.73	0.27	7.2	3.8	3.5 - 4.0	100	4.87	0.35	7.2	4.9	4.6 - 5.2
All Roche Methods	6	4.00	0.14	3.5	4.0	3.8 - 4.2	6	4.40	0.21	4.8	4.5	4.1 - 4.7
All TOSOH Methods	9	3.52	0.14	4.0	3.5	3.3 - 3.7	15	4.98	0.13	2.7	5.0	4.7 - 5.3
Beckman AU A1c	5	2.92	0.16	5.6	3.0	2.7 - 3.1	7	4.26	0.21	4.9	4.2	4.0 - 4.5
Bio-Rad D-10 HbA1C	4	-	-	-	3.4	3.5 - 4.0	5	4.85	0.13	2.7	4.9	4.6 - 5.1
Roche cobas c501 HbA1c	5	4.08	0.10	2.3	4.1	3.8 - 4.3	5	4.30	0.18	4.2	4.3	4.0 - 4.6
Siemens DCA Vantage	45	3.81	0.20	5.2	3.8	3.6 - 4.1	46	5.07	0.21	4.1	5.1	4.8 - 5.4
Siemens Dimension HA1C	6	3.63	0.19	5.1	3.7	3.4 - 3.9	9	4.60	0.26	5.6	4.5	4.3 - 4.9
Siemens Dimension HB1C	3	3.77	0.15	4.1	3.8	3.5 - 4.0	7	4.70	0.29	6.3	4.6	4.4 - 5.0
TOSOH G8	9	3.52	0.14	4.0	3.5	3.3 - 3.7	15	4.98	0.13	2.7	5.0	4.7 - 5.3

Whole Blood Glucose (mg/dL)

	Specimen WBG-6						Specimen WBG-7				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	255	68.9	15.5	22.6	65	55 - 83	255	175.4	20.3	11.6	182	140 - 211
All Abbott Methods	35	57.2	6.9	12.1	55	45 - 69	37	161.3	13.4	8.3	155	129 - 194
All Arkray Methods	18	83.3	6.6	7.9	86	66 - 100	16	188.6	11.6	6.2	191	150 - 227
All Bayer Methods	20	50.6	4.7	9.3	49	40 - 61	21	144.6	8.2	5.7	143	115 - 174
All Hemocue Methods	55	91.3	6.2	6.8	92	73 - 110	52	191.8	6.2	3.2	194	153 - 231
All Lifescan Methods	13	62.2	4.4	7.1	64	49 - 75	13	199.2	8.6	4.3	197	159 - 239
All Roche Methods	24	71.5	1.9	2.6	72	57 - 86	24	183.3	5.2	2.9	184	146 - 220
Abbott FreeStyle Lite/Freedom Lite	7	63.1	2.4	3.8	63	50 - 76	7	173.6	4.0	2.3	174	138 - 209
Abbott FreeStyle Precision Pro	24	56.2	7.4	13.1	54	44 - 68	24	157.5	13.9	8.8	154	126 - 189
Abbott Precision XceedPro	4	-	-	-	53	45 - 69	6	162.0	9.9	6.1	164	129 - 195
Arkray Platinum	16	84.3	4.8	5.7	86	67 - 102	14	190.7	9.2	4.8	193	152 - 229
Bayer Contour	20	50.6	4.7	9.3	49	40 - 61	21	144.6	8.2	5.7	143	115 - 174
HemoCue Glucose 201	54	91.3	6.3	6.9	92	73 - 110	51	191.9	6.2	3.2	194	153 - 231
Home Diagnostics True Balance / TrueTrack	9	178.0	4.8	2.7	177	142 - 214	9	425.4	12.9	3.0	429	340 - 511
Lifescan One Touch Ultra/2/Mini	13	62.2	4.4	7.1	64	49 - 75	13	199.2	8.6	4.3	197	159 - 239
Medline EvenCare G2 / G3	21	70.4	8.0	11.3	69	56 - 85	21	182.0	21.6	11.8	187	145 - 219
NOVA Biomedical StatStrip	18	55.8	3.7	6.6	55	44 - 67	18	153.2	6.9	4.5	153	122 - 184
Quintet / AC	29	59.5	4.1	6.9	59	47 - 72	30	183.8	7.6	4.1	185	147 - 221
Roche Accu-Chek Inform II	9	72.0	1.0	1.4	72	57 - 87	9	185.9	2.0	1.1	186	148 - 224
Roche Accu-Chek Performa	12	70.7	4.0	5.6	72	56 - 85	12	179.8	13.0	7.2	183	143 - 216
True Metrix Pro	15	54.8	2.9	5.2	55	43 - 66	15	157.5	7.2	4.6	159	126 - 190

Whole Blood Glucose (mg/dL)

Specimen WBG-8

Method	Labs	Mean	SD	CV	Median	Range
All Method	11	320.2	29.3	9.2	321	256 - 385
All Lifescan Methods	8	333.8	17.3	5.2	346	267 - 401
All Roche Methods	2	-	-	-	297	237 - 357
Lifescan One Touch Ultra/2/Mini	8	333.8	17.3	5.2	346	267 - 401
Roche Accu-Chek Inform II	1	-	-	-	304	256 - 385
Roche Accu-Chek Performa	1	-	-	-	290	256 - 385
True Metrix Pro	1	-	-	-	258	256 - 385

Specimen WBG-9

Labs	Mean	SD	CV	Median	Range
11	114.7	7.5	6.6	115	91 - 138
8	117.5	5.1	4.3	121	94 - 141
2	-	-	-	113	90 - 135
8	117.5	5.1	4.3	121	94 - 141
1	-	-	-	113	91 - 138
1	-	-	-	112	91 - 138
1	-	-	-	97	91 - 138

Specimen WBG-10

Method	Labs	Mean	SD	CV	Median	Range
All Method	11	370.9	40.4	10.9	362	296 - 446
All Lifescan Methods	8	389.5	27.0	6.9	409	311 - 468
All Roche Methods	2	-	-	-	334	266 - 401
Lifescan One Touch Ultra/2/Mini	8	389.5	27.0	6.9	409	311 - 468
Roche Accu-Chek Inform II	1	-	-	-	343	296 - 446
Roche Accu-Chek Performa	1	-	-	-	324	296 - 446
True Metrix Pro	1	-	-	-	297	296 - 446

C-Peptide (ng/mL)

		Specimen CIP-3						Specimen CIP-4				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	11	0.513	0.215	41.9	0.59	0.08 - 0.95	11	13.812	3.456	25.0	12.77	6.89 - 20.73

Insulin (μU/mL)

		Specimen CIP-3						Specimen CIP-4				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	13	13.84	4.34	31.4	13.1	5.1 - 22.6	13	92.23	18.93	20.5	99.0	54.3 - 130.1
All TOSOH Instruments	5	47.85	5.16	10.8	47.9	37.5 - 58.2	5	238.65	34.44	14.4	238.7	169.7 - 307.6
Beckman ACCESS / 2 / DxI	5	12.54	1.50	12.0	12.3	9.5 - 15.6	5	95.28	9.37	9.8	94.2	76.5 - 114.1

Parathyroid Hormone, Intact (pg/mL)

		Specimen CIP-3						Specimen CIP-4				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	34	19.7	2.1	10.8	20	13 - 26	35	157.9	16.5	10.5	158	110 - 206
All Roche Methods	5	16.5	1.7	10.5	17	11 - 22	5	130.0	6.6	5.1	130	91 - 169
All TOSOH Instruments	6	20.5	1.0	5.1	21	14 - 27	6	159.0	9.8	6.2	159	111 - 207
Beckman ACCESS / 2 / DxI	14	20.1	0.9	4.7	20	14 - 27	14	155.3	7.0	4.5	156	108 - 202
TOSOH ST AIA PACK	5	20.8	1.3	6.1	21	14 - 27	5	161.8	11.4	7.0	164	113 - 211

Vitamin D (25-Hydroxy) (ng/mL)

		Specimen CIP-3						Specimen CIP-4				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	94	15.63	3.89	24.9	15.1	7.8 - 23.5	94	84.02	11.75	14.0	83.5	60.5 - 107.6
All Roche Instruments	7	12.81	1.13	8.8	13.1	10.5 - 15.1	7	90.89	8.07	8.9	92.5	74.7 - 107.1
All TOSOH Instruments	15	19.05	2.25	11.8	18.6	14.5 - 23.6	15	79.84	5.39	6.8	78.1	69.0 - 90.7
All VITROS Instruments	5	18.30	1.41	7.7	18.1	15.4 - 21.2	5	101.55	5.14	5.1	101.6	91.2 - 111.9
Abbott Architect	6	13.72	0.76	5.5	14.0	12.1 - 15.3	6	74.90	4.86	6.5	76.3	65.1 - 84.7
Beckman ACCESS / 2 / DxI	39	13.55	1.95	14.4	13.8	9.6 - 17.5	39	86.29	6.57	7.6	87.0	73.1 - 99.5
Qualigen FastPack	5	28.00	4.81	17.2	25.8	18.3 - 37.7	5	57.15	2.53	4.4	56.7	52.0 - 62.3
Roche cobas e 411	5	12.33	1.31	10.7	12.6	9.6 - 15.0	5	87.93	7.04	8.0	88.4	73.8 - 102.0
Siemens Dimension	5	16.86	1.54	9.1	17.0	13.7 - 20.0	5	68.10	5.37	7.9	67.0	57.3 - 78.9
TOSOH AIA PACK	4	17.70	0.88	5.0	17.7	15.9 - 19.5	5	75.75	3.02	4.0	76.7	69.7 - 81.8
TOSOH ST AIA PACK	11	19.55	2.42	12.4	19.4	14.6 - 24.4	11	81.33	5.37	6.6	80.7	70.5 - 92.1

Bioavailable Testosterone (ng/dL)

Method	Specimen SHB-3						Specimen SHB-4					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	3	-	-	-	217	Not graded	3	-	-	-	131	Not graded

Free Testosterone (pg/mL)

Method	Specimen SHB-3						Specimen SHB-4					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	6	18.83	17.64	93.7	9.1	0.0 - 54.2	6	11.80	11.69	99.1	5.2	0.0 - 35.2

Sex Hormone Binding Globulin (SHBG) (nmol/L)

Method	Specimen SHB-3						Specimen SHB-4					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	13	54.075	4.413	8.2	53.40	40.83 - 67.32	13	39.181	3.013	7.7	39.02	30.14 - 48.23
Beckman ACCESS / 2 / DxI	10	54.320	4.714	8.7	53.10	40.17 - 68.47	10	38.842	2.868	7.4	39.56	30.23 - 47.45

Testosterone (ng/dL)

Method	Specimen SHB-3						Specimen SHB-4					
	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	14	552.5	64.3	11.6	535	386 - 719	14	277.2	29.7	10.7	271	194 - 361
Beckman ACCESS / 2 / DxI	10	518.5	27.3	5.3	525	362 - 675	10	262.8	13.6	5.2	267	183 - 342

BNP (pg/mL)

		Specimen CK-6						Specimen CK-7				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	18	104.63	42.60	40.7	49.0	19.4 - 189.9	18	3574.62	1750.51	49.0	1115.0	73.5 - 7075.7
Quidel Triage	12	43.22	7.15	16.5	43.1	28.9 - 57.6	12	1019.83	212.66	20.9	1001.0	594.5 - 1445.2

		Specimen CK-8						Specimen CK-9				
All Method	15	1268.98	484.24	38.2	497.0	300.4 - 2237.5	15	652.78	248.71	38.1	272.0	155.3 - 1150.2
Quidel Triage	10	371.60	68.97	18.6	372.0	233.6 - 509.6	10	206.00	21.13	10.3	201.0	154.5 - 257.5

		Specimen CK-10				
All Method	15	2391.98	911.15	38.1	909.5	569.6 - 4214.3
Quidel Triage	10	666.40	142.00	21.3	642.0	382.3 - 950.5

CK-MB (ng/mL)

		Specimen CK-6						Specimen CK-7				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	14	6.33	1.18	18.7	3.5	2.7 - 9.9	14	94.71	19.73	20.8	45.5	35.5 - 153.9
Quidel Triage	12	2.81	0.47	16.9	2.8	1.3 - 4.3	12	37.74	4.49	11.9	36.3	24.2 - 51.3

		Specimen CK-8						Specimen CK-9				
All Method	14	27.53	5.19	18.9	14.6	11.9 - 43.2	14	16.32	2.93	18.0	8.7	7.5 - 25.2
Quidel Triage	12	12.56	1.53	12.2	12.8	7.9 - 17.2	12	7.33	0.74	10.1	7.3	5.0 - 9.6

		Specimen CK-10				
All Method	14	48.70	9.49	19.5	27.8	20.2 - 77.2
Quidel Triage	12	22.09	3.18	14.4	22.0	12.5 - 31.7

D-Dimer (ng/mL)

Specimen CK-6 / Specimen CK-7

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	21	290.0	22.6	7.8	164	203 - 377	21	905.5	9.2	1.0	1430	633 - 1178
Instrumentation Laborartory (IL) ACL Series	5	290.0	22.6	7.8	290	203 - 377	5	905.5	9.2	1.0	906	633 - 1178
Quidel Triage	16	164.1	23.5	14.3	161	114 - 214	16	1443.8	128.5	8.9	1435	1010 - 1877

Specimen CK-8 / Specimen CK-9

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	21	421.0	29.7	7.1	608	294 - 548	21	345.5	37.5	10.8	370	241 - 450
Instrumentation Laborartory (IL) ACL Series	5	421.0	29.7	7.1	421	294 - 548	5	345.5	37.5	10.8	346	241 - 450
Quidel Triage	16	614.7	38.8	6.3	617	430 - 800	16	389.7	41.5	10.7	373	272 - 507

Specimen CK-10

Method	Labs	Mean	SD	CV	Median	Range
All Method	21	568.0	25.5	4.5	870	397 - 739
Instrumentation Laborartory (IL) ACL Series	5	568.0	25.5	4.5	568	397 - 739
Quidel Triage	16	898.4	95.0	10.6	879	628 - 1168

Myoglobin (ng/mL)

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CK-6							*Specimen CK-7*		
All Method	16	32.97	3.31	10.0	39.2	23.0 - 42.9	16	436.20	88.17	20.2	425.5	259.8 - 612.6
Alere Triage	10	40.98	5.68	13.9	40.7	28.6 - 53.3	10	416.11	39.76	9.6	416.0	291.2 - 541.0
			Specimen CK-8							*Specimen CK-9*		
All Method	16	133.60	19.85	14.9	163.5	93.5 - 173.7	16	83.93	11.20	13.3	106.0	58.7 - 109.2
Alere Triage	10	172.11	18.46	10.7	176.0	120.4 - 223.8	10	113.25	8.00	7.1	111.5	79.2 - 147.3
			Specimen CK-10									
All Method	16	237.20	26.17	11.0	266.0	166.0 - 308.4						
Alere Triage	10	268.29	20.31	7.6	272.0	187.8 - 348.8						

NT-proBNP (pg/mL)

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
			Specimen CK-6							*Specimen CK-7*		
All Method	15	21.2	20.5	96.7	7	0 - 63	15	2222.6	837.3	37.7	1730	547 - 3898
All Roche Methods	6	43.0	9.9	23.0	43	23 - 63	6	3131.0	82.0	2.6	3131	2348 - 3914
Roche cobas e 601/ e 602	5	43.0	9.9	23.0	43	23 - 63	5	3131.0	82.0	2.6	3131	2348 - 3914
Siemens Dimension NT-proBNP	5	6.7	0.6	8.7	7	5 - 9	5	1617.0	153.7	9.5	1679	1212 - 2022
			Specimen CK-8							*Specimen CK-9*		
All Method	12	399.0	253.0	63.4	280	0 - 905	12	188.8	140.9	74.6	121	0 - 471
All Roche Methods	4	-	-	-	778	583 - 973	4	-	-	-	400	300 - 500
Roche cobas e 601/ e 602	3	-	-	-	778	0 - 905	3	-	-	-	400	0 - 471
Siemens Dimension NT-proBNP	5	272.7	15.6	5.7	271	204 - 341	5	118.3	5.1	4.3	117	88 - 148
			Specimen CK-10									
All Method	12	861.3	443.2	51.5	650	0 - 1748						
All Roche Methods	4	-	-	-	1525	1143 - 1907						
Roche cobas e 601/ e 602	3	-	-	-	1525	0 - 1748						
Siemens Dimension NT-proBNP	5	640.0	31.2	4.9	623	480 - 800						

Troponin I (ng/mL)

Method		Specimen CK-6						Specimen CK-7				
	Labs	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	33	0.154	0.163	105.8	0.05	0.00 - 0.49	33	21.491	23.417	109.0	9.18	0.00 - 68.33
All HS Troponin I Methods	10	0.486	0.365	75.0	0.36	0.00 - 1.22	10	48.142	22.185	46.1	43.51	3.77 - 92.52
All Non-HS Troponin I Methods	19	0.053	0.028	52.5	0.05	0.00 - 0.11	19	7.465	2.161	28.9	7.58	3.14 - 11.79
Quidel Triage	12	0.050	0.001	0.0	0.05	0.03 - 0.07	12	8.386	1.230	14.7	8.66	5.87 - 10.91
Siemens Dimension	10	0.058	0.052	89.7	0.03	0.00 - 0.17	10	6.626	2.866	43.2	4.95	0.89 - 12.36

Method		Specimen CK-8						Specimen CK-9				
All Method	33	3.498	3.859	110.3	1.47	0.00 - 11.22	33	1.607	1.908	118.8	0.59	0.00 - 5.43
All HS Troponin I Methods	10	12.540	8.127	64.8	9.67	0.00 - 28.80	10	6.141	4.509	73.4	4.42	0.00 - 15.16
All Non-HS Troponin I Methods	19	1.416	0.480	33.9	1.32	0.45 - 2.38	19	0.589	0.252	42.9	0.51	0.08 - 1.10
Alere Triage	12	1.373	0.178	12.9	1.40	0.96 - 1.79	12	0.489	0.071	14.6	0.49	0.34 - 0.64
Siemens Dimension	10	1.625	0.840	51.7	1.13	0.00 - 3.31	10	0.788	0.393	49.9	0.56	0.00 - 1.58

Method		Specimen CK-10				
All Method	33	8.014	8.103	101.1	4.04	0.00 - 24.22
All HS Troponin I Methods	10	22.351	10.596	47.4	22.30	1.15 - 43.55
All Non-HS Troponin I Methods	19	3.443	1.088	31.6	3.43	1.26 - 5.62
Alere Triage	12	3.865	0.601	15.5	3.99	2.66 - 5.07
Siemens Dimension	10	3.183	1.526	47.9	2.24	0.13 - 6.24

Troponin T (ng/mL)

		Specimen CK-6						Specimen CK-7				
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	5	0.0835	0.0191	22.8	0.084	0.045 - 0.122	5	1.0900	0.1980	18.2	1.090	0.694 - 1.486
Roche cobas e 601/ e 602	5	0.0835	0.0191	22.8	0.084	0.045 - 0.122	5	1.0900	0.1980	18.2	1.090	0.694 - 1.486

		Specimen CK-8						Specimen CK-9				
All Method	5	0.3420	0.0735	21.5	0.342	0.194 - 0.490	5	0.2045	0.0488	23.9	0.205	0.106 - 0.303
Roche cobas e 601/ e 602	5	0.3420	0.0735	21.5	0.342	0.194 - 0.490	5	0.2045	0.0488	23.9	0.205	0.106 - 0.303

		Specimen CK-10				
All Method	5	0.5855	0.0926	15.8	0.586	0.400 - 0.771
Roche cobas e 601/ e 602	5	0.5855	0.0926	15.8	0.586	0.400 - 0.771

PSA (ng/mL)

		Specimen PS-3						Specimen PS-4				
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	81	27.806	4.791	17.2	29.18	19.46 - 36.15	83	10.099	1.921	19.0	10.40	7.06 - 13.13
All Beckman Instruments	26	30.449	1.284	4.2	30.72	21.31 - 39.59	26	10.892	0.503	4.6	10.83	7.62 - 14.16
All Roche Instruments	7	32.566	1.995	6.1	32.13	22.79 - 42.34	7	11.703	0.917	7.8	11.67	8.19 - 15.22
All TOSOH Instruments	17	21.682	1.497	6.9	21.59	15.17 - 28.19	17	7.755	0.553	7.1	7.69	5.42 - 10.09
Abbott Architect	7	25.350	1.666	6.6	24.68	17.74 - 32.96	7	9.053	0.467	5.2	8.93	6.33 - 11.77
Beckman ACCESS / 2 / DxI	16	30.213	1.213	4.0	30.62	21.14 - 39.28	16	10.718	0.361	3.4	10.76	7.50 - 13.94
Beckman ACCESS Hybritech PSA	11	31.293	2.019	6.5	30.84	21.90 - 40.69	11	11.326	0.756	6.7	11.33	7.92 - 14.73
Qualigen FastPack	5	43.280	8.620	19.9	46.70	30.29 - 56.27	5	13.120	2.109	16.1	13.30	9.18 - 17.06
Siemens Dimension TPSA	13	30.088	1.961	6.5	29.53	21.06 - 39.12	13	10.528	0.977	9.3	10.27	7.36 - 13.69
TOSOH AIA PACK	5	20.978	1.860	8.9	20.60	14.68 - 27.28	5	7.620	0.593	7.8	7.32	5.33 - 9.91
TOSOH ST AIA PACK	12	21.975	1.296	5.9	21.76	15.38 - 28.57	12	7.812	0.553	7.1	7.70	5.46 - 10.16

Beta-2 microglobulin

		Specimen TM-3						Specimen TM-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	7	1.866	0.095	5.1	1.80	1.58 - 2.16	7	1.164	0.065	5.6	1.16	0.96 - 1.36

CA 125 (U/mL)

		Specimen TM-3						Specimen TM-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	15	75.9	18.9	24.9	119	38 - 114	15	44.3	9.8	22.1	64	24 - 64
All TOSOH Instruments	11	135.4	7.5	5.6	138	108 - 163	11	74.6	6.0	8.1	73	59 - 90
TOSOH ST AIA PACK	10	135.4	7.5	5.6	138	108 - 163	10	74.6	6.0	8.1	73	59 - 90

CA 15-3 (U/mL)

		Specimen TM-3						Specimen TM-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	9	92.2	32.0	34.7	105	28 - 157	9	55.3	18.9	34.2	55	17 - 94

CA 19-9 (ng/mL)

		Specimen TM-3						Specimen TM-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	9	103.2	31.0	30.0	114	41 - 166	9	58.1	17.1	29.5	63	23 - 93

CA 27/29 (U/mL)

		Specimen TM-3						Specimen TM-4				
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	8	139.9	11.0	7.9	145	97 - 182	8	97.9	6.5	6.6	101	68 - 128
All TOSOH Instruments	8	139.9	11.0	7.9	145	97 - 182	8	97.9	6.5	6.6	101	68 - 128
TOSOH ST AIA PACK	8	139.9	11.0	7.9	145	97 - 182	8	97.9	6.5	6.6	101	68 - 128

CEA (U/mL)

		Specimen TM-3						Specimen TM-4				
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	9	31.30	4.95	15.8	33.0	25.0 - 37.6	9	16.10	2.08	12.9	17.7	12.8 - 19.4
All TOSOH Instruments	9	33.69	1.78	5.3	33.4	26.9 - 40.5	9	18.49	0.97	5.2	18.6	14.7 - 22.2
TOSOH ST AIA PACK	9	33.69	1.78	5.3	33.4	26.9 - 40.5	9	18.49	0.97	5.2	18.6	14.7 - 22.2

Free PSA (ng/mL)

		Specimen TM-3						Specimen TM-4				
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	8	3.280	0.558	17.0	3.39	2.29 - 4.27	8	1.611	0.279	17.3	1.66	0.71 - 2.52

PSA (ng/mL)

		Specimen TM-3						Specimen TM-4				
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	29	3.104	0.661	21.3	2.92	2.17 - 4.04	29	1.492	0.300	20.1	1.45	0.59 - 2.40
All Beckman Instruments	12	3.535	0.480	13.6	3.59	2.47 - 4.60	12	1.683	0.213	12.7	1.69	0.78 - 2.59

Thyroglobulin (ng/mL)

		Specimen TM-3						Specimen TM-4				
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	7	28.13	8.44	30.0	32.1	11.2 - 45.0	7	13.80	4.65	33.7	15.7	4.5 - 23.1
Beckman ACCESS / 2 / DxI	5	32.33	0.72	2.2	32.7	30.8 - 33.8	5	16.10	0.79	4.9	15.8	14.5 - 17.7

CEA (ng/mL)

| | Specimen SC-3 | | | | | | Specimen SC-4 | | | | |
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	10	28.26	3.03	10.7	32.3	22.6 - 34.0	10	10.98	1.52	13.9	13.2	8.7 - 13.2
All TOSOH Instruments	6	35.70	1.40	3.9	35.7	28.5 - 42.9	6	13.40	0.34	2.5	13.3	10.7 - 16.1

DHEA-S (µg/dL)

| | Specimen SC-3 | | | | | | Specimen SC-4 | | | | |
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	14	409.61	69.14	16.9	388.4	271.3 - 547.9	14	179.27	33.72	18.8	170.4	111.8 - 246.8
Beckman ACCESS / 2 / DxI	10	390.13	46.41	11.9	382.3	273.0 - 507.2	10	168.96	21.42	12.7	166.4	118.2 - 219.7

Estradiol (pg/mL)

| | Specimen SC-3 | | | | | | Specimen SC-4 | | | | |
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	27	538.5	147.9	27.5	473	242 - 835	27	253.5	66.3	26.2	235	120 - 387
All TOSOH Instruments	5	809.4	74.5	9.2	781	566 - 1053	5	370.0	52.2	14.1	389	259 - 481
Beckman ACCESS / 2 / DxI	14	462.9	14.8	3.2	459	324 - 602	15	235.9	11.2	4.7	234	165 - 307
TOSOH ST AIA PACK	5	803.8	84.8	10.5	771	562 - 1045	5	365.3	59.0	16.1	366	247 - 484

Ferritin (ng/mL)

| | Specimen SC-3 | | | | | | Specimen SC-4 | | | | |
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	32	215.4	36.6	17.0	171	172 - 259	32	90.3	16.7	18.5	68	72 - 109
All Abbott Instruments	5	256.6	18.5	7.2	246	205 - 308	5	108.8	7.5	6.9	107	87 - 131
All Roche Instruments	8	237.5	15.5	6.5	234	190 - 285	8	100.6	6.7	6.6	98	80 - 121
All Siemens Dimension Instruments	9	218.2	18.9	8.6	223	174 - 262	9	92.8	9.2	9.9	94	74 - 112
All TOSOH Instruments	19	160.8	4.1	2.6	160	128 - 193	20	65.4	3.0	4.6	65	52 - 79
Beckman ACCESS / 2 / DxI	26	166.8	9.4	5.7	168	133 - 201	27	67.3	3.9	5.8	67	53 - 81
Siemens Dimension	8	224.1	6.9	3.1	225	179 - 269	8	95.6	3.7	3.9	95	76 - 115
TOSOH ST AIA PACK	15	161.0	3.7	2.3	160	128 - 194	16	66.0	3.0	4.6	66	52 - 80

Folate (ng/mL)

| | Specimen SC-3 | | | | | | Specimen SC-4 | | | | | |
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	21	7.78	3.43	44.1	8.9	5.4 - 10.2	21	2.36	0.68	28.6	2.6	1.3 - 3.4
All Roche Instruments	7	6.49	0.82	12.6	6.5	4.5 - 8.5	7	2.01	0.04	1.9	2.0	1.0 - 3.1
All Siemens Dimension Instruments	5	5.06	0.70	13.9	5.2	3.5 - 6.6	5	2.22	0.23	10.3	2.2	1.2 - 3.3
All Siemens Dimension Instruments	5	5.06	0.70	13.9	5.2	3.5 - 6.6	5	2.22	0.23	10.3	2.2	1.2 - 3.3
All Siemens Dimension Instruments	5	5.06	0.70	13.9	5.2	3.5 - 6.6	5	2.22	0.23	10.3	2.2	1.2 - 3.3
All Siemens Dimension Instruments	5	5.06	0.70	13.9	5.2	3.5 - 6.6	5	2.22	0.23	10.3	2.2	1.2 - 3.3
All TOSOH Instruments	8	4.20	0.33	7.7	4.1	2.9 - 5.5	8	1.64	0.39	23.5	1.8	0.6 - 2.7
Abbott Architect	5	12.96	2.30	17.7	13.6	9.0 - 16.9	5	3.30	0.66	20.0	3.3	2.3 - 4.3
Beckman ACCESS / 2 / DxI	24	9.70	0.74	7.6	9.6	6.7 - 12.7	24	3.01	0.31	10.2	3.1	2.0 - 4.1

FSH (mIU/mL)

| | Specimen SC-3 | | | | | | Specimen SC-4 | | | | | |
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	26	49.83	5.14	10.3	50.5	40.8 - 58.9	26	23.08	2.66	11.5	24.2	18.9 - 27.3
All TOSOH Instruments	6	50.35	3.60	7.1	50.6	41.2 - 59.5	6	24.50	1.57	6.4	25.0	20.0 - 29.0
Beckman ACCESS / 2 / DxI	14	51.72	4.19	8.1	51.0	42.4 - 61.1	14	23.90	1.96	8.2	24.4	19.5 - 28.3

Homocysteine (μmol/L)

| | Specimen SC-3 | | | | | | Specimen SC-4 | | | | | |
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	7	45.7	4.6	10.1	43	31 - 60	7	19.3	1.5	7.9	19	13 - 26
Beckman ACCESS / 2 / DxI	5	47.0	5.7	12.0	47	32 - 62	5	19.5	2.1	10.9	20	13 - 26

LH (mIU/mL)

| | Specimen SC-3 | | | | | | Specimen SC-4 | | | | | |
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	24	49.35	7.15	14.5	49.6	35.0 - 63.7	24	19.43	2.93	15.1	18.9	13.5 - 25.3
Beckman ACCESS / 2 / DxI	15	46.37	5.75	12.4	46.7	34.8 - 57.9	15	18.53	2.29	12.3	18.4	13.9 - 23.2

Prealbumin (mg/dL)

| | Specimen SC-3 | | | | | | Specimen SC-4 | | | | | |
Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
-	2	-	-	-	15.9	Not graded	2	-	-	-	11.8	Not graded

Progesterone (ng/mL)

		Specimen SC-3						Specimen SC-4				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	17	33.81	5.54	16.4	32.6	25.3 - 42.3	18	15.48	3.48	22.5	14.2	11.6 - 19.4
Beckman ACCESS / 2 / DxI	11	32.43	3.06	9.4	32.6	24.3 - 40.6	11	13.95	1.50	10.7	14.0	10.4 - 17.5

Prolactin (ng/mL)

		Specimen SC-3						Specimen SC-4				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	23	56.90	5.86	10.3	56.2	45.5 - 68.3	23	21.46	1.94	9.1	21.2	17.1 - 25.8
Beckman ACCESS / 2 / DxI	14	54.73	4.59	8.4	54.5	43.7 - 65.7	14	21.04	1.66	7.9	20.5	16.8 - 25.3

Testosterone (ng/dL)

		Specimen SC-3						Specimen SC-4				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	50	1071.1	177.4	16.6	1031	749 - 1393	50	471.8	87.1	18.5	436	330 - 614
All TOSOH Instruments	13	1317.0	80.9	6.1	1322	921 - 1713	13	578.0	51.8	9.0	577	404 - 752
Abbott Architect	5	1045.4	69.8	6.7	1073	731 - 1360	5	400.0	18.1	4.5	409	280 - 520
Beckman ACCESS / 2 / DxI	25	943.3	75.9	8.0	960	660 - 1227	25	413.9	27.3	6.6	418	289 - 539
TOSOH ST AIA PACK	10	1326.0	78.1	5.9	1307	928 - 1724	10	582.2	55.7	9.6	571	407 - 757

Transferrin (mg/dL)

		Specimen SC-3						Specimen SC-4				
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	8	166.3	6.0	3.6	165	149 - 183	8	116.8	2.3	1.9	117	105 - 129

Vitamin B$_{12}$ (pg/mL)

Method	\multicolumn{6}{c}{Specimen SC-3}	\multicolumn{6}{c}{Specimen SC-4}
	Labs	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	75	1108.8	188.8	17.0	1044	831 - 1386	75	462.9	88.3	19.1	430	347 - 579
All Abbott Instruments	7	1317.7	84.7	6.4	1315	988 - 1648	7	495.1	30.6	6.2	502	371 - 619
All Roche Instruments	7	1333.3	79.0	5.9	1355	999 - 1667	7	515.3	62.5	12.1	521	386 - 645
All Siemens Dimension Instruments	8	1207.0	117.6	9.7	1237	905 - 1509	8	482.8	60.1	12.4	494	362 - 604
All TOSOH Instruments	12	1304.9	71.2	5.5	1310	978 - 1632	12	606.7	26.1	4.3	610	455 - 759
Abbott Architect	6	1334.8	78.4	5.9	1342	1001 - 1669	6	494.0	33.4	6.8	495	370 - 618
Beckman ACCESS / 2 / DxI	36	955.8	69.1	7.2	956	716 - 1195	36	392.8	26.7	6.8	390	294 - 491
Siemens Dimension	7	1202.3	126.2	10.5	1233	901 - 1503	7	481.9	64.8	13.5	499	361 - 603
TOSOH AIA PACK	7	1273.6	63.9	5.0	1263	955 - 1592	7	600.6	29.3	4.9	605	450 - 751
TOSOH ST AIA PACK	5	1348.8	60.8	4.5	1370	1011 - 1686	5	615.2	20.9	3.4	622	461 - 769

Acetone

Specimen ETH-6 | Specimen ETH-7

Method	Labs	Negative	Small	Moderate	Large	Labs	Negative	Small	Moderate	Large
ALL METHODS	11	-	-	2	9	11	11	-	-	-
Biorex Labs K-CHECK	9	-	-	-	9	9	9	-	-	-
Germaine Laboratories AimTab	2	-	-	2	-	2	2	-	-	-

Specimen ETH-8 | Specimen ETH-9

Method	Labs	Negative	Small	Moderate	Large	Labs	Negative	Small	Moderate	Large
ALL METHODS	11	-	-	3	8	11	11	-	-	-
Biorex Labs K-CHECK	9	-	-	2	7	9	9	-	-	-
Germaine Laboratories AimTab	2	-	-	1	1	2	2	-	-	-

Specimen ETH-10

Method	Labs	Negative	Small	Moderate	Large
ALL METHODS	11	11	-	-	-
Biorex Labs K-CHECK	9	9	-	-	-
Germaine Laboratories AimTab	2	2	-	-	-

Serum Alcohol (mg/dL)

Specimen ETH-6 | Specimen ETH-7

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	6	68.0	3.6	5.3	67	51 - 85	6	110.7	3.1	2.8	110	83 - 139
Siemens Dimension	6	68.0	3.6	5.3	67	51 - 85	6	110.7	3.1	2.8	110	83 - 139

Specimen ETH-8 | Specimen ETH-9

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
All Method	6	207.3	5.8	2.8	204	155 - 260	6	21.3	2.1	9.8	22	15 - 27
Siemens Dimension	6	207.3	5.8	2.8	204	155 - 260	6	21.3	2.1	9.8	22	15 - 27

Specimen ETH-10

Method	Labs	Mean	SD	CV	Median	Range
All Method	6	152.8	17.5	11.4	159	114 - 191
Siemens Dimension	6	161.0	7.0	4.3	164	120 - 202

Thyroglobulin Antibody (IU/mL)

		Specimen THY-3						Specimen THY-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	13	507.630	144.162	28.4	574.95	75.14 - 940.12	14	0.500	0.363	72.6	0.50	0.00 - 1.59
Beckman ACCESS / 2 / DxI	10	599.438	31.342	5.2	587.35	505.41 - 693.47	10	0.556	0.317	57.0	0.50	0.00 - 1.51

Thryoid Peroxidase Antibody (TPO) (IU/mL)

		Specimen THY-3						Specimen THY-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	16	72.337	19.460	26.9	72.30	13.95 - 130.72	15	0.192	0.239	124.2	0.10	0.00 - 0.91
Beckman ACCESS / 2 / DxI	10	70.655	5.816	8.2	70.25	53.20 - 88.11	11	0.135	0.071	52.7	0.10	0.00 - 0.35

Ammonia (µmol/L)

		Specimen AMM-3						Specimen AMM-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	5	55.3	4.9	8.9	53	45 - 66	5	240.0	2.8	1.2	240	228 - 252
Siemens Dimension	5	55.3	4.9	8.9	53	45 - 66	5	240.0	2.8	1.2	240	228 - 252

Ethyl Glucuronide (EtG) (ng/mL)

		Specimen ETG-3			Specimen ETG-4	
Method	_Labs_	_Positive_	_Negative_	_Labs_	_Positive_	_Negative_
All Methods	3	3	-	3	3	-
Cut-off 500						
Beckman AU	1	1	-	1	1	-
ImmTox	1	1	-	1	1	-
Indiko Plus	1	1	-	1	1	-
All Cut-off 500	3	3	-	3	3	-

Adulterated Urine – Specific Gravity

Method	Specimen AUR-3						Specimen AUR-4					
	Labs	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
ALL METHODS	5	1.0065	0.0001	0.0	1.007	0.996 - 1.017	5	1.0055	0.0001	0.0	1.006	0.995 - 1.016

Adulterated Urine – Specific Gravity Interpretation

Method	Specimen AUR-3			Specimen AUR-4		
	Labs	*Normal*	*Abnormal*	*Labs*	*Normal*	*Abnormal*
ALL METHODS	5	5	-	5	5	-
Carolina Chemistries BiOlis	5	5	-	5	5	-

Adulterated Urine – pH

Method	Specimen AUR-3						Specimen AUR-4					
	Labs	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
ALL METHODS	6	6.73	0.76	11.2	6.4	5.7 - 7.8	6	6.63	0.67	10.0	6.3	5.6 - 7.7

Adulterated Urine – pH Interpretation

Method	Specimen AUR-3			Specimen AUR-4		
	Labs	*Normal*	*Abnormal*	*Labs*	*Normal*	*Abnormal*
ALL METHODS	6	6	-	6	6	-
Axiom Diagnostics	2	2	-	2	2	-
Carolina Chemistries BiOlis	2	2	-	2	2	-
Siemens Viva-E	1	1	-	1	1	-

Adulterated Urine – Creatinine (mg/dL)

	Specimen AUR-3						Specimen AUR-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	8	6.73	0.38	5.6	6.9	3.7 - 9.8	3	17.30	0.82	4.7	17.5	14.3 - 20.3
Beckman AU	5	6.95	0.07	1.0	7.0	3.9 - 10.0	5	17.75	0.35	2.0	17.8	14.7 - 20.8

Adulterated Urine – Creatinine Interpretation

	Specimen AUR-3			Specimen AUR-4		
Method	_Labs_	_Normal_	_Abnormal_	_Labs_	_Normal_	_Abnormal_
ALL METHODS	5	-	5	5	-	5
Beckman AU	2	-	2	2	-	2
Carolina Chemistries BiOlis	2	-	2	2	-	2
ImmTox	1	-	1	1	-	1

Adulterated Urine – Nitrite Interpretation

	Specimen AUR-3			Specimen AUR-4		
Method	_Labs_	_Normal_	_Abnormal_	_Labs_	_Normal_	_Abnormal_
ALL METHODS	2	-	2	2	2	-
Siemens Viva-E	2	-	2	2	2	-

Adulterated Urine – Oxidants Interpretation

	Specimen AUR-3			Specimen AUR-4		
Method	_Labs_	_Negative/ Normal_	_Positive/ Abnormal_	_Labs_	_Negative/ Normal_	_Positive/ Abnormal_
ALL METHODS	5	-	5	5	5	-
Beckman AU	3	-	3	3	3	-
Siemens Viva-E	2	-	2	2	2	-

Urine Drug Screen

Acetaminophen (µg/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	*Labs*	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	2	-	2	2	-	2

Amphetamines (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	96	1	95	96	1	95
Cut-off 300						
Beckman AU	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
Siemens Viva-E	1	-	1	1	-	1
All Cut-off 300	3	-	3	3	-	3
Cut-off 500						
Beckman AU	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	3	-	3	3	-	3
First Sign Drugs of Abuse	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	1	-	1	1	-	1
Mindray BS-200/BS-480	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Synermed IR 500	1	-	1	1	-	1
USDiagnostics UScreen Cup	2	-	2	2	-	2
All Cut-off 500	21	-	21	21	-	21
Cut-off 1000						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	2	-	2	2	-	2
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	-	23	23	-	23
Alfa Scientific Instant-View	2	-	2	2	-	2
Beckman AU	1	-	1	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	2	-	2	2	-	2

Amphetamines (ng/mL) cont'd

	Specimen UDS-3			Specimen UDS-4		
	Labs	_Positive_	_Negative_	_Labs_	_Positive_	_Negative_
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	2	-	2	2	-	2
Germaine Laboratories AimScreen	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	4	-	4	4	-	4
Noble Medical Inc.	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
Siemens Viva-E	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	9	-	9	9	-	9
All Cut-off 1000	71	-	71	71	-	71

Amphetamines/Methamphetamines (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	Positive	Negative	Labs	Positive	Negative
All Methods	11	-	11	11	-	11
Cut-off 300						
Roche Integra	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Beckman AU	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
MEDTOX Diagnostics	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
USDiagnostics UScreen Cup	2	-	2	2	-	2
All Cut-off 500	7	-	7	7	-	7
Cut-off 1000						
Beckman AU	1	-	1	1	-	1
Microgenics DRI	2	-	2	2	-	2
All Cut-off 1000	3	-	3	3	-	3

Barbiturates (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	78	-	78	78	1	77
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 200						
Beckman AU	4	-	4	4	-	4
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	3	-	3	3	-	3
Roche Integra	2	-	2	2	-	2
Siemens Dimension	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	22	-	22	22	-	22
Cut-off 300						
Alere iCassette	2	-	2	2	-	2
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	-	23	23	1	22
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
Confirm Biosciences DoA Test	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 300	55	-	55	55	1	54

Benzodiazepines (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	99	98	1	99	-	99
Cut-off 100						
Beckman AU	1	1	-	1	-	1
Roche Integra	1	1	-	1	-	1
All Cut-off 100	2	2	-	2	-	2
Cut-off 150						
Immunalysis	1	1	-	1	-	1
MEDTOX Diagnostics	5	5	-	5	-	5
All Cut-off 150	6	6	-	6	-	6
Cut-off 200						
Beckman AU	4	4	-	4	-	4
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
Indiko Plus	3	3	-	3	-	3
Microgenics DRI	7	7	-	7	-	7
Mindray BS-200/BS-480	1	1	-	1	-	1
Siemens Dimension	2	2	-	2	-	2
Siemens EMIT II Plus	3	3	-	3	-	3
Synermed IR 500	1	1	-	1	-	1
All Cut-off 200	23	23	-	23	-	23
Cut-off 300						
12 Panel Now	1	1	-	1	-	1
Alere iCassette	2	2	-	2	-	2
Alere iCup	1	1	-	1	-	1
Alere iScreen	23	22	1	23	-	23
Alfa Scientific Instant-View	1	1	-	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	6	6	-	6	-	6
Confirm Biosciences DoA Test	1	1	-	1	-	1
First Sign Drugs of Abuse	4	4	-	4	-	4
Immunalysis	1	1	-	1	-	1
McKesson Consult Drug Panel	1	1	-	1	-	1
McKesson Drug Panel	7	7	-	7	-	7
Noble Medical Inc.	1	1	-	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	1	-	1	-	1
Roche cobas 6000 / c 501	1	1	-	1	-	1
USDiagnostics One Step Multi-Drug	2	2	-	2	-	2
USDiagnostics Proscreen	1	1	-	1	-	1
USDiagnostics UScreen Cup	10	10	-	10	-	10
All Cut-off 300	67	66	1	67	-	67

Buprenorphine (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	_Positive_	_Negative_	_Labs_	_Positive_	_Negative_
All Methods	40	-	40	40	-	40
Cut-off 5						
Beckman AU	3	-	3	3	-	3
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Microgenics CEDIA	5	-	5	5	-	5
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 5	14	-	14	14	-	14
Cut-off 10						
12 Panel Now	1	-	1	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Chemtron Biotech	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
McKesson Drug Panel	4	-	4	4	-	4
MEDTOX Diagnostics	3	-	3	3	-	3
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	3	-	3	3	-	3
All Cut-off 10	24	-	24	24	-	24
Cut-off 20						
Indiko Plus	1	-	1	1	-	1
Microgenics CEDIA	1	-	1	1	-	1
All Cut-off 20	2	-	2	2	-	2

Cannabinoids (THC) (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	Positive	Negative	Labs	Positive	Negative
All Methods	97	-	97	97	1	96
Cut-off 20						
Roche Integra	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1
Cut-off 50						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	2	-	2	2	-	2
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	-	23	23	1	22
Alfa Scientific Instant-View	8	-	8	8	-	8
Beckman AU	4	-	4	4	-	4
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	3	-	3	3	-	3
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Germaine Laboratories AimScreen	4	-	4	4	-	4
ImmTox	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Indiko Plus	3	-	3	3	-	3
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	4	-	4	4	-	4
Mindray BS-200/BS-480	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Siemens Dimension	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 50	95	-	95	95	1	94
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Carisoprodol (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	Positive	Negative	Labs	Positive	Negative
All Methods	2	-	2	2	-	2

Cocaine Metabolites (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	Positive	Negative	Labs	Positive	Negative
All Methods	114	-	114	114	113	1
Cut-off 50						
First Sign Drugs of Abuse	1	-	1	1	1	-
All Cut-off 50	1	-	1	1	1	-
Cut-off 100						
Beckman AU	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-
Cut-off 150						
Beckman AU	2	-	2	2	2	-
CLIAwaived, Inc. Drug Test	4	-	4	4	4	-
First Sign Drugs of Abuse	1	-	1	1	1	-
ImmTox	2	-	2	2	2	-
Immunalysis	1	-	1	1	1	-
Indiko Plus	3	-	3	3	3	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	1	-	1	1	1	-
Noble Medical Inc.	1	-	1	1	1	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
Roche Integra	1	-	1	1	1	-
Siemens Dimension	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
Synermed IR 500	1	-	1	1	1	-
USDiagnostics UScreen Cup	2	-	2	2	2	-
All Cut-off 150	28	-	28	28	28	-
Cut-off 300						
12 Panel Now	1	-	1	1	1	-
Alere iCassette	2	-	2	2	2	-
Alere iCup	1	-	1	1	1	-
Alere iScreen	23	-	23	23	22	1

Cocaine Metabolites (ng/mL) (cont'd)

	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
Beckman AU						
BluRapids Multi-Drug Urine Test Cup	2	-	2	2	2	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
CLIAwaived, Inc. Drug Test	2	-	2	2	2	-
Confirm Biosciences DoA Test	2	-	2	2	2	-
First Sign Drugs of Abuse	1	-	1	1	1	-
Germaine Laboratories AimScreen	1	-	1	1	1	-
Immunalysis	4	-	4	4	4	-
Lin-Zhi International	1	-	1	1	1	-
McKesson Consult Drug Panel	1	-	1	1	1	-
McKesson Drug Panel	1	-	1	1	1	-
Microgenics DRI	7	-	7	7	7	-
Noble Medical Inc.	6	-	6	6	6	-
Roche cobas 6000 / c 501	1	-	1	1	1	-
Roche Integra	1	-	1	1	1	-
Siemens Dimension	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	2	-	2	2	2	-
All Cut-off 300	9	-	9	9	9	-

Cotinine (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	2	-	2	2	-	2

EDDP (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	5	-	5	5	-	5
Cut-off 100						
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
All Cut-off 100	2	-	2	2	-	2
Cut-off 150						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 150	1	-	1	1	-	1
Cut-off 300						
Beckman AU	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 1000						
Indiko Plus	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1

Ethanol (Alcohol) (mg/dL)

	Specimen UDS-3			Specimen UDS-4		
Method	*Labs*	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	9	-	9	9	-	9
Cut-off 10						
Siemens EMIT II Plus	2	-	2	2	-	2
All Cut-off 10	2	-	2	2	-	2
Cut-off 20						
Beckman AU	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1
Cut-off 40						
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 40	1	-	1	1	-	1
Cut-off 100						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Microgenics DRI	3	-	3	3	-	3
All Cut-off 100	4	-	4	4	-	4

Fentanyl (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	*Labs*	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	5	-	4	5	-	4
Cut-off 100						
Indiko Plus	1	-	-	1	-	-
All Cut-off 100	1	-	-	1	-	-
Cut-off 1						
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 1	1	-	1	1	-	1
Cut-off 2						
Beckman AU	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 2	3	-	3	3	-	3

Hydrocodone (ng/mL)

		Specimen UDS-3			Specimen UDS-4	
Method	**Labs**	**Positive**	**Negative**	**Labs**	**Positive**	**Negative**
All Methods	1	1	-	1	-	1
Cut-off 300						
Indiko Plus	1	1	-	1	-	1
All Cut-off 300	1	1	-	1	-	1

LSD (ng/mL)

		Specimen UDS-3			Specimen UDS-4	
Method	**Labs**	**Positive**	**Negative**	**Labs**	**Positive**	**Negative**
All Methods	1	-	1	1	-	1

MDMA (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	Positive	Negative	Labs	Positive	Negative
All Methods	56	-	56	56	-	56
Cut-off 100						
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 500						
12 Panel Now	1	-	1	1	-	1
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	-	23	23	-	23
Beckman AU	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 500	55	-	55	55	-	55

Meperidine (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	Positive	Negative	Labs	Positive	Negative
All Methods	1	-	1	1	-	1

Methadone (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	84	-	84	84	81	3
Cut-off 100						
Beckman AU	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-
Cut-off 150						
Beckman AU	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 150	2	-	2	2	2	-
Cut-off 200						
MEDTOX Diagnostics	5	-	5	5	5	-
All Cut-off 200	5	-	5	5	5	-
Cut-off 300						
12 Panel Now	1	-	1	1	1	-
Alere iCassette	2	-	2	2	2	-
Alere iCup	1	-	1	1	1	-
Alere iScreen	23	-	23	23	22	1
Beckman AU	2	-	2	2	2	-
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
CLIAwaived, Inc. Drug Test	5	-	5	5	5	-
Confirm Biosciences DoA Test	1	-	1	1	1	-
First Sign Drugs of Abuse	1	-	1	1	1	-
Immunalysis	1	-	1	1	-	1
Indiko Plus	2	-	2	2	2	-
Lin-Zhi International	1	-	1	1	1	-
McKesson Consult Drug Panel	1	-	1	1	1	-
McKesson Drug Panel	7	-	7	7	6	1
Microgenics DRI	6	-	6	6	6	-
Noble Medical Inc.	1	-	1	1	1	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
Roche cobas 6000 / c 501	1	-	1	1	1	-
Roche Integra	1	-	1	1	1	-
Siemens EMIT II Plus	2	-	2	2	2	-
Synermed IR 500	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	8	-	8	8	8	-
All Cut-off 300	75	-	75	75	72	3
Cut-off 1000						
CLIAwaived, Inc. Drug Test	1	-	1	1	1	-
All Cut-off 1000	1	-	1	1	1	-

Methamphetamines (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	72	-	72	72	-	72
Cut-off 500						
Alere iScreen	23	-	23	23	-	23
Beckman AU	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
First Sign Drugs of Abuse	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnostics UScreen Cup	2	-	2	2	-	2
All Cut-off 500	41	-	41	41	-	41
Cut-off 1000						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	2	-	2	2	-	2
Alere iCup	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	2	-	2	2	-	2
McKesson Consult Drug Panel	2	-	2	2	-	2
McKesson Drug Panel	6	-	6	6	-	6
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 1000	31	-	31	31	-	31

Methanol (mg/dL)

	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	1	-	1	1	-	1

Methaqualone (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	*Labs*	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	1	-	1	1	-	1
Cut-off 300						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1

6-MAM (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	*Labs*	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	8	-	8	8	-	8
Cut-off 10						
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
Microgenics CEDIA	2	-	2	2	-	2
Siemens Viva-E	1	-	1	1	-	1
All Cut-off 10	8	-	8	8	-	8

Opiates (Morphine Trihydrate) (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	111	110	1	111	-	111
Cut-off 100						
Beckman AU	1	1	-	1	-	1
Immunalysis	1	1	-	1	-	1
MEDTOX Diagnostics	3	3	-	3	-	3
All Cut-off 100	5	5	-	5	-	5
Cut-off 300						
12 Panel Now	1	1	-	1	-	1
Alere iScreen	23	22	1	23	-	23
Alfa Scientific Instant-View	2	2	-	2	-	2
Beckman AU	4	4	-	4	-	4
Carolina Chemistries BioLis 24i	2	2	-	2	-	2
CLIAwaived, Inc. Drug Test	4	4	-	4	-	4
Confirm Biosciences DoA Test	1	1	-	1	-	1
ImmTox	2	2	-	2	-	2
Indiko Plus	2	2	-	2	-	2
Lin-Zhi International	1	1	-	1	-	1
McKesson Consult Drug Panel	1	1	-	1	-	1
McKesson Drug Panel	4	4	-	4	-	4
Microgenics DRI	7	7	-	7	-	7
Mindray BS-200/BS-480	1	1	-	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	1	-	1	-	1
Roche cobas 6000 / c 501	1	1	-	1	-	1
Roche Integra	2	2	-	2	-	2
Siemens Dimension	2	2	-	2	-	2
Siemens EMIT II Plus	3	3	-	3	-	3
Synermed IR 500	1	1	-	1	-	1
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
USDiagnostics UScreen Cup	10	10	-	10	-	10
All Cut-off 300	77	76	1	77	-	77

Opiates (Morphine Trihydrate) (ng/mL) (cont'd)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
Cut-off 2000						
Alere iCassette	2	2	-	2	-	2
Alere iCup	1	1	-	1	-	1
Alfa Scientific Instant-View	6	6	-	6	-	6
BluRapids Multi-Drug Urine Test Cup	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	2	2	-	2	-	2
First Sign Drugs of Abuse	3	3	-	3	-	3
Germaine Laboratories AimScreen	4	4	-	4	-	4
Immunalysis	1	1	-	1	-	1
McKesson Drug Panel	2	2	-	2	-	2
MEDTOX Diagnostics	2	2	-	2	-	2
Noble Medical Inc.	2	2	-	2	-	2
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
USDiagnostics UScreen Cup	1	1	-	1	-	1
All Cut-off 2000	29	29	-	29	-	29

Oxycodone (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	83	1	82	83	-	83
Cut-off 100						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	1	-	1	1	-	1
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	1	22	23	-	23
Beckman AU	4	-	4	4	-	4
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	6	-	6	6	-	6
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 100	79	1	78	79	-	79
Cut-off 300						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	4	-	4	4	-	4

Phencyclidine (PCP) (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	73	71	2	73	-	73
Cut-off 25						
Alere iCassette	2	2	-	2	-	2
Alere iCup	1	1	-	1	-	1
Alere iScreen	22	21	1	22	-	22
Alfa Scientific Instant-View	2	2	-	2	-	2
Beckman AU	3	3	-	3	-	3
BluRapids Multi-Drug Urine Test Cup	1	1	-	1	-	1
BMC QuickTox Drug Screen	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	5	4	1	5	-	5
Confirm Biosciences DoA Test	1	1	-	1	-	1
First Sign Drugs of Abuse	1	1	-	1	-	1
Germaine Laboratories AimScreen	2	2	-	2	-	2
McKesson Consult Drug Panel	1	1	-	1	-	1
McKesson Drug Panel	6	6	-	6	-	6
MEDTOX Diagnostics	5	5	-	5	-	5
Microgenics DRI	2	2	-	2	-	2
Noble Medical Inc.	2	2	-	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	1	1	-	1	-	1
Siemens Dimension	1	1	-	1	-	1
Siemens EMIT II Plus	1	1	-	1	-	1
USDiagnostics One Step Multi-Drug	2	2	-	2	-	2
USDiagnostics UScreen Cup	8	8	-	8	-	8
All Cut-off 25	72	70	2	72	-	72
Cut-off 100						
Beckman AU	1	1	-	1	-	1
All Cut-off 100	1	1	-	1	-	1

Propoxyphene (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	**Positive**	**Negative**	**Labs**	**Positive**	**Negative**
All Methods	17	-	17	17	-	17
Cut-off 300						
Alere iCassette	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
McKesson Drug Panel	5	-	5	5	-	5
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 300	17	-	17	17	-	17

Tramadol (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
	Labs	**Positive**	**Negative**	**Labs**	**Positive**	**Negative**
All Methods	2	-	2	2	2	-

Tricyclic Antidepressants (ng/mL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	23	-	23	23	-	23
Cut-off 300						
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 300	5	-	5	5	-	5
Cut-off 1000						
Alere iCup	1	-	1	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	6	-	6	6	-	6
USDiagnostics UScreen Cup	5	-	5	5	-	5
All Cut-off 1000	18	-	18	18	-	18

Zolpidem (mg/dL)

Method	Specimen UDS-3			Specimen UDS-4		
	Labs	*Positive*	*Negative*	*Labs*	*Positive*	*Negative*
All Methods	2	-	2	2	2	-

Urine Amylase (U/L)

	Specimen UCH-3						Specimen UCH-4					
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	1	-	-	-	199	Not graded	1	-	-	-	134	Not graded

Urine Calcium (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	1	-	-	-	6.9	Not graded	1	-	-	-	10.0	Not graded

Urine Chloride (mmol/L)

	Specimen UCH-3						Specimen UCH-4					
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	1	-	-	-	168	Not graded	1	-	-	-	70	Not graded

Urine Creatinine (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	6	128.17	11.47	9.0	127.6	106.3 - 150.0	6	73.88	6.28	8.5	74.7	61.3 - 86.5

Urine Glucose (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	1	-	-	-	153	Not graded	1	-	-	-	25	Not graded

Urine Magnesium (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	1	-	-	-	5.8	Not graded	1	-	-	-	3.0	Not graded

Urine Osmolality (mOsm/kg)

		Specimen UCH-3						Specimen UCH-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	1	-	-	-	623	Not graded	1	-	-	-	379	Not graded

Urine Phosphorus (mg/dL)

		Specimen UCH-3						Specimen UCH-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	1	-	-	-	39.8	Not graded	1	-	-	-	16.0	Not graded

Urine Potassium (mmol/L)

		Specimen UCH-3						Specimen UCH-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	1	-	-	-	66.0	Not graded	1	-	-	-	21.0	Not graded

Urine Sodium (mmol/L)

		Specimen UCH-3						Specimen UCH-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	1	-	-	-	141	Not graded	1	-	-	-	77	Not graded

Urine Total Protein (mg/dL)

		Specimen UCH-3						Specimen UCH-4				
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	6	43.80	6.77	15.4	46.1	24.5 - 63.1	5	11.63	3.07	26.4	10.9	6.5 - 16.8

Urine Urea Nitrogen (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	1	-	-	-	540	Not graded	1	-	-	-	393	Not graded

Urine Uric Acid (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_	_Labs_	_Mean_	_SD_	_CV_	_Median_	_Range_
All Method	1	-	-	-	7.0	Not graded	1	-	-	-	4.0	Not graded

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