

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Medical Laboratory
Evaluation 

Chemistry
2022 MLE-M1

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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 \pm the limits listed below.

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

*Whichever is greater

Sodium (mmol/L)

<u>Instrument</u>	<u>Specimen IST-1</u>						<u>Specimen IST- 2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	160.8	0.6	0.4	161	156 - 165	103	145.5	0.6	0.4	145	141 - 150
All i-STAT Instruments	103	160.8	0.6	0.4	161	156 - 165	103	145.5	0.6	0.4	145	141 - 150
i-STAT - moderate	92	160.8	0.7	0.4	161	156 - 165	92	145.5	0.6	0.4	146	141 - 150
i-STAT - waived	11	160.7	0.5	0.3	161	156 - 165	11	145.2	0.6	0.4	145	141 - 150
<u>Instrument</u>	<u>Specimen IST-3</u>						<u>Specimen IST-4</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	100	138.9	0.6	0.4	139	134 - 143	99	124.3	0.4	0.4	124	120 - 129
All i-STAT Instruments	100	138.9	0.6	0.4	139	134 - 143	99	124.3	0.4	0.4	124	120 - 129
i-STAT - moderate	92	138.9	0.6	0.4	139	134 - 143	91	124.3	0.4	0.4	124	120 - 129
i-STAT - waived	8	-	-	-	138	134 - 143	8	-	-	-	124	120 - 129
<u>Instrument</u>	<u>Specimen IST-5</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	100	160.7	0.6	0.4	161	156 - 165						
All i-STAT Instruments	100	160.7	0.6	0.4	161	156 - 165						
i-STAT - moderate	92	160.7	0.6	0.4	161	156 - 165						
i-STAT - waived	8	-	-	-	161	156 - 165						

Potassium (mmol/L)

<u>Instrument</u>	<u>Specimen IST-1</u>						<u>Specimen IST-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	102	6.50	0.04	0.6	6.5	6.0 - 7.1	103	6.12	0.04	0.7	6.1	5.6 - 6.7
All i-STAT Instruments	102	6.50	0.04	0.6	6.5	6.0 - 7.1	103	6.12	0.04	0.7	6.1	5.6 - 6.7
i-STAT - moderate	92	6.50	0.04	0.6	6.5	6.0 - 7.1	93	6.13	0.04	0.7	6.1	5.6 - 6.7
i-STAT - waived	10	6.51	0.03	0.5	6.5	6.0 - 7.1	10	6.11	0.03	0.5	6.1	5.6 - 6.7
<u>Instrument</u>	<u>Specimen IST-3</u>						<u>Specimen IST-4</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	91	3.80	0.01	0.0	3.8	3.3 - 4.3	96	2.70	0.01	0.0	2.7	2.2 - 3.2
All i-STAT Instruments	91	3.80	0.01	0.0	3.8	3.3 - 4.3	96	2.70	0.01	0.0	2.7	2.2 - 3.2
i-STAT - moderate	84	3.80	0.01	0.0	3.8	3.3 - 4.3	89	2.70	0.01	0.0	2.7	2.2 - 3.2
i-STAT - waived	7	-	-	-	3.8	3.3 - 4.3	7	-	-	-	2.7	2.2 - 3.2
<u>Instrument</u>	<u>Specimen IST-5</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	100	6.50	0.04	0.6	6.5	6.0 - 7.1						
All i-STAT Instruments	100	6.50	0.04	0.6	6.5	6.0 - 7.1						
i-STAT - moderate	93	6.50	0.04	0.6	6.5	6.0 - 7.1						
i-STAT - waived	7	-	-	-	6.5	6.0 - 7.1						

tCO₂ (mmol/L)

<u><i>Instrument</i></u>	Specimen IST-1						Specimen IST-2					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	100	23.6	0.9	3.8	24	18 - 29	97	13.7	0.5	3.8	14	10 - 17
All i-STAT Instruments	100	23.6	0.9	3.8	24	18 - 29	97	13.7	0.5	3.8	14	10 - 17
i-STAT - moderate	92	23.5	0.9	3.9	23	18 - 29	90	13.7	0.5	3.8	14	10 - 17
<u><i>Instrument</i></u>	Specimen IST-3						Specimen IST-4					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	96	26.2	1.0	3.7	26	20 - 32	96	23.3	0.8	3.5	23	18 - 28
All i-STAT Instruments	96	26.2	1.0	3.7	26	20 - 32	96	23.3	0.8	3.5	23	18 - 28
i-STAT - moderate	91	26.1	1.0	3.8	26	20 - 32	91	23.3	0.8	3.6	23	18 - 28
<u><i>Instrument</i></u>	Specimen IST-5											
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>						
All Method	95	23.6	0.8	3.2	24	18 - 29						
All i-STAT Instruments	95	23.6	0.8	3.2	24	18 - 29						
i-STAT - moderate	92	23.5	0.8	3.6	24	18 - 29						

Chloride (mmol/L)

<u><i>Instrument</i></u>	Specimen IST-1						Specimen IST-2					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	102	107.4	0.6	0.6	107	102 - 113	103	109.2	0.8	0.7	109	103 - 115
All i-STAT Instruments	102	107.4	0.6	0.6	107	102 - 113	103	109.2	0.8	0.7	109	103 - 115
i-STAT - moderate	93	107.4	0.6	0.6	107	102 - 113	94	109.2	0.8	0.7	109	103 - 115
<u><i>Instrument</i></u>	Specimen IST-3						Specimen IST-4					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	100	86.4	0.6	0.7	86	82 - 91	98	74.7	0.7	0.9	75	70 - 79
All i-STAT Instruments	100	86.4	0.6	0.7	86	82 - 91	98	74.7	0.7	0.9	75	70 - 79
i-STAT - moderate	94	86.4	0.6	0.7	86	82 - 91	92	74.7	0.7	0.9	75	71 - 79
<u><i>Instrument</i></u>	Specimen IST-5											
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>						
All Method	100	107.4	0.7	0.6	107	102 - 113						
All i-STAT Instruments	100	107.4	0.7	0.6	107	102 - 113						
i-STAT - moderate	94	107.4	0.7	0.6	107	102 - 113						

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	16.9	0.3	1.9	17	14 - 19	103	22.8	0.5	2.0	23	20 - 25
All i-STAT Instruments	101	16.9	0.3	1.9	17	14 - 19	103	22.8	0.5	2.0	23	20 - 25
i-STAT - moderate	93	16.9	0.4	2.2	17	14 - 19	93	22.8	0.5	2.1	23	20 - 25
i-STAT - waived	10	17.0	0.1	0.0	17	15 - 19	10	23.0	0.1	0.0	23	20 - 26
<u>Instrument</u>	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	98	63.8	1.2	1.9	64	58 - 70	98	70.9	1.3	1.8	71	64 - 78
All i-STAT Instruments	98	63.8	1.2	1.9	64	58 - 70	98	70.9	1.3	1.8	71	64 - 78
i-STAT - moderate	91	63.9	1.1	1.7	64	58 - 70	91	70.9	1.3	1.8	71	64 - 78
i-STAT - waived	7	-	-	-	63	58 - 70	7	-	-	-	72	64 - 78
<u>Instrument</u>	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	90	17.0	0.1	0.0	17	15 - 19						
All i-STAT Instruments	90	17.0	0.1	0.0	17	15 - 19						
i-STAT - moderate	84	17.0	0.1	0.0	17	15 - 19						
i-STAT - waived	7	-	-	-	17	15 - 19						

Glucose (mg/dL)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	77.0	1.0	1.4	77	69 - 85	102	85.7	0.9	1.1	86	77 - 95
All i-STAT Instruments	103	77.0	1.0	1.4	77	69 - 85	102	85.7	0.9	1.1	86	77 - 95
i-STAT - moderate	92	76.9	0.9	1.2	77	69 - 85	93	85.6	0.9	1.1	86	77 - 95
i-STAT - waived	10	77.5	1.5	1.9	77	69 - 86	10	86.3	1.5	1.7	86	77 - 95
<u>Instrument</u>	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	99	146.7	1.1	0.8	147	132 - 162	100	179.9	1.3	0.7	180	161 - 198
All i-STAT Instruments	99	146.7	1.1	0.8	147	132 - 162	100	179.9	1.3	0.7	180	161 - 198
i-STAT - moderate	92	146.7	1.1	0.8	147	132 - 162	93	179.9	1.2	0.7	180	161 - 198
i-STAT - waived	7	-	-	-	146	132 - 162	7	-	-	-	179	161 - 198
<u>Instrument</u>	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	97	77.0	0.8	1.0	77	69 - 85						
All i-STAT Instruments	97	77.0	0.8	1.0	77	69 - 85						
i-STAT - moderate	92	77.0	0.8	1.0	77	69 - 85						
i-STAT - waived	7	-	-	-	77	69 - 85						

Hematocrit (percent)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	29.4	0.7	2.4	29	27 - 32	18	25.0	0.7	2.7	25	23 - 27
All i-STAT Instruments	18	29.4	0.7	2.4	29	27 - 32	18	25.0	0.7	2.7	25	23 - 27
i-STAT - moderate	13	29.5	0.8	2.6	29	27 - 32	13	25.2	0.6	2.4	25	23 - 27
i-STAT - waived	5	29.2	0.4	1.5	29	27 - 31	5	24.4	0.5	2.2	24	22 - 26

<u>Instrument</u>	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	25.2	0.7	2.6	25	23 - 27	18	20.3	0.6	3.0	20	19 - 22
All i-STAT Instruments	18	25.2	0.7	2.6	25	23 - 27	18	20.3	0.6	3.0	20	19 - 22
i-STAT - moderate	13	25.3	0.6	2.5	25	23 - 27	13	20.4	0.7	3.2	20	19 - 22
i-STAT - waived	5	24.7	0.6	2.3	25	23 - 27	5	20.0	0.1	0.0	20	18 - 22

<u>Instrument</u>	Specimen IST-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	29.4	0.7	2.4	29	27 - 32
All i-STAT Instruments	18	29.4	0.7	2.4	29	27 - 32
i-STAT - moderate	13	29.5	0.8	2.6	29	27 - 32
i-STAT - waived	5	29.0	0.1	0.0	29	27 - 31

Hemoglobin (g/dL)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	10.03	0.21	2.1	9.9	9.3 - 10.8	18	8.50	0.21	2.4	8.5	7.9 - 9.1
All i-STAT Instruments	18	10.03	0.21	2.1	9.9	9.3 - 10.8	18	8.50	0.21	2.4	8.5	7.9 - 9.1
i-STAT - moderate	13	10.06	0.23	2.3	9.9	9.3 - 10.8	13	8.57	0.18	2.1	8.5	7.9 - 9.2
i-STAT - waived	5	9.96	0.13	1.3	9.9	9.2 - 10.7	5	8.32	0.16	2.0	8.2	7.7 - 9.0

<u>Instrument</u>	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	8.56	0.20	2.3	8.5	7.9 - 9.2	18	6.90	0.20	2.9	6.8	6.4 - 7.4
All i-STAT Instruments	18	8.56	0.20	2.3	8.5	7.9 - 9.2	18	6.90	0.20	2.9	6.8	6.4 - 7.4
i-STAT - moderate	13	8.59	0.19	2.2	8.5	7.9 - 9.2	13	6.92	0.22	3.1	6.8	6.4 - 7.5
i-STAT - waived	5	8.40	0.17	2.1	8.5	7.8 - 9.0	5	6.80	0.01	0.0	6.8	6.3 - 7.3

<u>Instrument</u>	Specimen IST-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	10.01	0.23	2.3	9.9	9.3 - 10.8
All i-STAT Instruments	18	10.01	0.23	2.3	9.9	9.3 - 10.8
i-STAT - moderate	13	10.03	0.25	2.5	9.9	9.3 - 10.8
i-STAT - waived	5	9.90	0.01	0.0	9.9	9.2 - 10.6

Creatinine (mg/dL)

<u>Instrument</u>	<u>Specimen IST-1</u>						<u>Specimen IST-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	114	0.72	0.04	5.8	0.7	0.4 - 1.1	113	1.02	0.04	4.3	1.0	0.7 - 1.4
All i-STAT Instruments	114	0.72	0.04	5.8	0.7	0.4 - 1.1	113	1.02	0.04	4.3	1.0	0.7 - 1.4
i-STAT - moderate	92	0.72	0.04	5.7	0.7	0.4 - 1.1	91	1.02	0.05	4.4	1.0	0.7 - 1.4
i-STAT - waived	22	0.73	0.05	6.3	0.7	0.4 - 1.1	22	1.01	0.04	3.5	1.0	0.7 - 1.4
<u>Specimen IST-3</u>							<u>Specimen IST-4</u>					
All Method	98	5.92	0.20	3.3	5.9	5.0 - 6.9	97	3.79	0.13	3.5	3.8	3.2 - 4.4
All i-STAT Instruments	98	5.92	0.20	3.3	5.9	5.0 - 6.9	97	3.79	0.13	3.5	3.8	3.2 - 4.4
i-STAT - moderate	92	5.93	0.18	3.1	5.9	5.0 - 6.9	91	3.80	0.12	3.1	3.8	3.2 - 4.4
i-STAT - waived	6	-	-	-	5.9	5.0 - 6.9	6	-	-	-	3.8	3.2 - 4.4
<u>Specimen IST-5</u>												
All Method	98	0.73	0.05	6.5	0.7	0.4 - 1.1						
All i-STAT Instruments	98	0.73	0.05	6.5	0.7	0.4 - 1.1						
i-STAT - moderate	92	0.73	0.05	6.5	0.7	0.4 - 1.1						
i-STAT - waived	6	-	-	-	0.7	0.4 - 1.1						

Ionized Calcium (mmol/L)

<u>Instrument</u>	<u>Specimen IST-1</u>						<u>Specimen IST-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	97	0.892	0.009	1.0	0.89	0.86 - 0.92	97	0.816	0.009	1.1	0.82	0.78 - 0.85
All i-STAT Instruments	97	0.892	0.009	1.0	0.89	0.86 - 0.92	97	0.816	0.009	1.1	0.82	0.78 - 0.85
i-STAT - moderate	90	0.892	0.008	0.9	0.89	0.86 - 0.92	90	0.816	0.009	1.1	0.82	0.78 - 0.85
<u>Specimen IST-3</u>							<u>Specimen IST-4</u>					
All Method	94	2.199	0.025	1.1	2.20	2.12 - 2.28	93	2.051	0.023	1.1	2.05	1.98 - 2.12
All i-STAT Instruments	94	2.199	0.025	1.1	2.20	2.12 - 2.28	93	2.051	0.023	1.1	2.05	1.98 - 2.12
i-STAT - moderate	89	2.198	0.025	1.1	2.20	2.12 - 2.28	88	2.050	0.022	1.1	2.05	1.98 - 2.12
<u>Specimen IST-5</u>												
All Method	94	0.893	0.010	1.1	0.89	0.86 - 0.93						
All i-STAT Instruments	94	0.893	0.010	1.1	0.89	0.86 - 0.93						
i-STAT - moderate	89	0.893	0.010	1.1	0.89	0.86 - 0.93						

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	145	6.64	0.48	7.2	6.7	5.9 - 7.4	146	5.00	0.46	9.2	5.2	4.4 - 5.5
All Bromocresol Green Reagents	111	6.72	0.47	6.9	6.7	6.0 - 7.4	110	5.23	0.22	4.2	5.3	4.7 - 5.8
All Bromocresol Purple Reagents	34	6.40	0.42	6.6	6.6	5.7 - 7.1	34	4.28	0.21	4.8	4.4	3.8 - 4.8
Abaxis Piccolo												
Abaxis Piccolo - waived	10	5.92	0.11	1.9	5.9	5.3 - 6.6	10	4.06	0.12	2.9	4.0	3.6 - 4.5
All Chemistry Instruments	14	5.92	0.15	2.6	5.9	5.3 - 6.6	14	4.06	0.12	2.8	4.1	3.6 - 4.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	6.76	0.19	2.8	6.7	6.0 - 7.5	19	5.24	0.14	2.6	5.3	4.7 - 5.8
Beckman AU												
Beckman AU systems	26	6.65	0.51	7.6	6.7	5.9 - 7.4	26	5.25	0.12	2.4	5.3	4.7 - 5.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	7.25	0.30	4.1	7.3	6.5 - 8.0	16	4.85	0.18	3.7	4.9	4.3 - 5.4
Roche cobas c 501												
Roche cobas 6000 / c 501	8	7.33	0.54	7.4	7.5	6.5 - 8.1	8	5.56	0.09	1.6	5.6	5.0 - 6.2
Roche Integra												
Roche Integra	13	6.76	0.36	5.3	6.9	6.0 - 7.5	13	5.38	0.17	3.2	5.4	4.8 - 6.0
Siemens Healthcare												
Siemens Dimension	20	6.73	0.12	1.7	6.7	6.0 - 7.5	20	4.43	0.09	2.1	4.4	3.9 - 4.9
VITROS												
VITROS 250,350,400 500,700,750,950	13	6.34	0.24	3.7	6.5	5.7 - 7.0	13	5.25	0.17	3.3	5.3	4.7 - 5.8
All Chemistry Instruments	17	6.30	0.26	4.2	6.5	5.6 - 7.0	17	5.25	0.15	2.9	5.3	4.7 - 5.8

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	135	1.66	0.16	9.9	1.7	1.4 - 1.9	136	3.80	0.32	8.4	3.9	3.4 - 4.2
All Bromocresol Green Reagents	111	1.72	0.10	5.8	1.7	1.5 - 1.9	112	3.93	0.17	4.3	3.9	3.5 - 4.4
All Bromocresol Purple Reagents	24	1.36	0.10	7.4	1.4	1.2 - 1.5	24	3.20	0.07	2.3	3.2	2.8 - 3.6
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	1.5	1.2 - 1.5	3	-	-	-	3.2	2.8 - 3.6
All Chemistry Instruments	4	-	-	-	1.5	1.3 - 1.7	4	-	-	-	3.2	2.8 - 3.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	1.74	0.06	3.4	1.7	1.5 - 2.0	19	3.92	0.11	2.8	3.9	3.5 - 4.4
Beckman AU												
Beckman AU systems	26	1.75	0.05	2.9	1.7	1.5 - 2.0	25	3.99	0.09	2.3	4.0	3.5 - 4.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	1.73	0.07	4.0	1.7	1.5 - 1.9	16	3.72	0.12	3.3	3.7	3.3 - 4.1
Roche cobas c 501												
Roche cobas 6000 / c 501	8	1.85	0.09	5.0	1.9	1.6 - 2.1	8	4.18	0.10	2.5	4.2	3.7 - 4.6
Roche Integra												
Roche Integra	13	1.72	0.06	3.5	1.7	1.5 - 1.9	13	4.06	0.14	3.6	4.1	3.6 - 4.5
Siemens Healthcare												
Siemens Dimension	19	1.34	0.05	3.8	1.3	1.2 - 1.5	20	3.21	0.07	2.2	3.2	2.8 - 3.6
VITROS												
VITROS 250,350,400 500,700,750,950	13	1.54	0.07	4.2	1.5	1.3 - 1.7	13	3.92	0.13	3.3	3.9	3.5 - 4.4
All Chemistry Instruments	17	1.55	0.06	4.0	1.6	1.3 - 1.8	17	3.91	0.11	2.8	3.9	3.5 - 4.4

Albumin (g/dL)

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	136	2.58	0.23	8.9	2.7	2.3 - 2.9
All Bromocresol Green Reagents	112	2.68	0.12	4.7	2.7	2.4 - 3.0
All Bromocresol Purple Reagents	23	2.17	0.05	2.2	2.2	1.9 - 2.4
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	2.2	1.9 - 2.4
All Chemistry Instruments	4	-	-	-	2.2	1.9 - 2.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	19	2.68	0.08	2.9	2.7	2.4 - 3.0
Beckman AU						
Beckman AU systems	26	2.72	0.07	2.4	2.7	2.4 - 3.0
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	16	2.61	0.07	2.8	2.6	2.3 - 2.9
Roche cobas c 501						
Roche cobas 6000 / c 501	8	2.86	0.07	2.6	2.9	2.5 - 3.2
Roche Integra						
Roche Integra	13	2.74	0.08	2.8	2.8	2.4 - 3.1
Siemens Healthcare						
Siemens Dimension	19	2.16	0.05	2.3	2.2	1.9 - 2.4
VITROS						
VITROS 250,350,400 500,700,750,950	13	2.52	0.09	3.6	2.5	2.2 - 2.8
All Chemistry Instruments	17	2.51	0.08	3.1	2.5	2.2 - 2.8

Bilirubin, Direct (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	78	0.18	0.12	67.3	0.1	0.0 - 0.5	80	1.42	0.39	27.7	1.5	0.6 - 2.3
All Roche Reagents	13	0.12	0.04	35.6	0.1	0.0 - 0.3	13	1.11	0.27	24.6	1.1	0.5 - 1.7
Beckman AU												
Beckman AU systems	16	0.13	0.05	36.5	0.1	0.0 - 0.3	16	1.55	0.09	5.8	1.6	1.3 - 1.8
Siemens Healthcare												
Siemens Dimension	13	0.08	0.04	44.4	0.1	0.0 - 0.2	13	1.05	0.07	6.3	1.1	0.9 - 1.2
All Chemistry Instruments	14	0.09	0.04	42.4	0.1	0.0 - 0.2	14	1.05	0.07	6.2	1.1	0.9 - 1.2
VITROS-BuBc and Bc												
All Chemistry Instruments	10	0.36	0.22	60.3	0.4	0.0 - 0.8	10	1.42	0.40	27.9	1.4	0.6 - 2.3
<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	79	0.05	0.06	109.8	0.0	0.0 - 0.2	80	0.86	0.27	31.0	0.9	0.3 - 1.4
All Roche Reagents	13	0.07	0.08	121.7	0.0	0.0 - 0.3	13	0.66	0.15	22.7	0.6	0.3 - 1.0
Beckman AU												
Beckman AU systems	15	0.00	0.01	0.0	0.0	0.0 - 0.1	16	0.96	0.07	7.5	1.0	0.8 - 1.2
Siemens Healthcare												
Siemens Dimension	13	0.07	0.04	60.0	0.1	0.0 - 0.2	13	0.62	0.04	6.1	0.6	0.5 - 0.7
All Chemistry Instruments	14	0.08	0.04	57.0	0.1	0.0 - 0.2	14	0.62	0.04	6.9	0.6	0.5 - 0.8
VITROS-BuBc and Bc												
All Chemistry Instruments	9	-	-	-	0.0	0.0 - 0.2	10	0.72	0.23	32.6	0.8	0.2 - 1.2
<u>Reagent/Instrument</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	80	0.35	0.15	42.6	0.4	0.0 - 0.7						
All Roche Reagents	13	0.26	0.08	29.4	0.3	0.1 - 0.5						
Beckman AU												
Beckman AU systems	15	0.40	0.01	0.0	0.4	0.3 - 0.5						
Siemens Healthcare												
Siemens Dimension	13	0.25	0.05	20.4	0.3	0.1 - 0.4						
All Chemistry Instruments	14	0.26	0.05	20.0	0.3	0.1 - 0.4						
VITROS-BuBc and Bc												
All Chemistry Instruments	10	0.22	0.18	79.6	0.2	0.0 - 0.6						

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-1</u>						<u>Specimen CH-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	145	0.54	0.12	22.1	0.5	0.1 - 1.0	145	5.36	0.51	9.5	5.4	4.2 - 6.5
All Alfa Wassermann Reagents	19	0.71	0.06	8.0	0.7	0.3 - 1.2	18	6.24	0.25	4.1	6.3	4.9 - 7.5
All Horiba Pentra Reagents	15	0.49	0.06	13.1	0.5	0.0 - 0.9	16	5.31	0.32	6.1	5.3	4.2 - 6.4
All Roche T. bili Special Reagents	19	0.42	0.05	12.7	0.4	0.0 - 0.9	19	4.99	0.34	6.8	5.0	3.9 - 6.0
Abaxis Piccolo												
Abaxis Piccolo - waived	10	0.54	0.05	9.6	0.5	0.1 - 1.0	10	4.88	0.34	7.0	4.8	3.9 - 5.9
All Chemistry Instruments	14	0.54	0.06	11.8	0.5	0.1 - 1.0	14	4.87	0.34	6.9	4.9	3.8 - 5.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	0.71	0.06	8.0	0.7	0.3 - 1.2	18	6.24	0.25	4.1	6.3	4.9 - 7.5
Beckman AU												
Beckman AU systems	25	0.61	0.05	8.1	0.6	0.2 - 1.1	25	5.39	0.24	4.4	5.4	4.3 - 6.5
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	0.49	0.06	13.1	0.5	0.0 - 0.9	16	5.31	0.32	6.1	5.3	4.2 - 6.4
Roche Integra-T. bili Gen.3												
Roche Integra	10	0.40	0.05	11.8	0.4	0.0 - 0.8	10	4.89	0.32	6.6	5.0	3.9 - 5.9
All Chemistry Instruments	12	0.41	0.05	12.6	0.4	0.0 - 0.9	12	4.89	0.34	6.9	5.0	3.9 - 5.9
Siemens Healthcare												
Siemens Dimension	20	0.45	0.07	15.4	0.4	0.0 - 0.9	19	5.42	0.28	5.1	5.5	4.3 - 6.6
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	13	0.65	0.09	13.6	0.6	0.2 - 1.1	13	5.25	0.33	6.2	5.2	4.1 - 6.3
All Chemistry Instruments	17	0.65	0.08	12.2	0.6	0.2 - 1.1	17	5.32	0.33	6.2	5.4	4.2 - 6.4

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	134	0.12	0.06	48.0	0.1	0.0 - 0.6	136	3.21	0.32	9.9	3.2	2.5 - 3.9
All Alfa Wassermann Reagents	19	0.18	0.04	20.3	0.2	0.0 - 0.6	18	3.76	0.15	4.0	3.8	3.0 - 4.6
All Horiba Pentra Reagents	16	0.09	0.05	52.6	0.1	0.0 - 0.5	16	3.19	0.19	5.9	3.2	2.5 - 3.9
All Roche T. bili Special Reagents	19	0.14	0.06	42.4	0.1	0.0 - 0.6	19	2.95	0.20	6.8	3.0	2.3 - 3.6
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	0.2	0.0 - 0.6	3	-	-	-	2.6	2.5 - 3.9
All Chemistry Instruments	4	-	-	-	0.2	0.0 - 0.7	4	-	-	-	2.8	2.2 - 3.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	0.18	0.04	20.3	0.2	0.0 - 0.6	18	3.76	0.15	4.0	3.8	3.0 - 4.6
Beckman AU												
Beckman AU systems	25	0.10	0.01	0.0	0.1	0.0 - 0.5	25	3.28	0.17	5.3	3.3	2.6 - 4.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	0.09	0.05	52.6	0.1	0.0 - 0.5	16	3.19	0.19	5.9	3.2	2.5 - 3.9
Roche Integra-T. bili Gen.3												
Roche Integra	10	0.11	0.06	51.6	0.1	0.0 - 0.6	10	2.93	0.20	6.8	3.0	2.3 - 3.6
All Chemistry Instruments	12	0.13	0.06	49.7	0.1	0.0 - 0.6	12	2.91	0.23	7.8	3.0	2.3 - 3.5
Siemens Healthcare												
Siemens Dimension	20	0.09	0.04	49.7	0.1	0.0 - 0.5	20	3.18	0.17	5.2	3.2	2.5 - 3.9
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	13	0.12	0.04	32.5	0.1	0.0 - 0.6	13	3.13	0.24	7.8	3.1	2.5 - 3.8
All Chemistry Instruments	17	0.11	0.04	40.5	0.1	0.0 - 0.6	17	3.16	0.23	7.1	3.2	2.5 - 3.8

Bilirubin, Total (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	136	1.28	0.17	13.1	1.3	0.8 - 1.7
All Alfa Wassermann Reagents	18	1.53	0.11	7.0	1.5	1.1 - 2.0
All Horiba Pentra Reagents	16	1.28	0.13	10.1	1.3	0.8 - 1.7
All Roche T. bili Special Reagents	19	1.16	0.12	10.0	1.2	0.7 - 1.6
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	1.0	0.8 - 1.7
All Chemistry Instruments	4	-	-	-	1.1	0.7 - 1.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	18	1.53	0.11	7.0	1.5	1.1 - 2.0
Beckman AU						
Beckman AU systems	24	1.37	0.09	6.4	1.4	0.9 - 1.8
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	16	1.28	0.13	10.1	1.3	0.8 - 1.7
Roche Integra-T. bili Gen.3						
Roche Integra	10	1.16	0.08	7.3	1.2	0.7 - 1.6
All Chemistry Instruments	12	1.15	0.09	7.9	1.2	0.7 - 1.6
Siemens Healthcare						
Siemens Dimension	20	1.25	0.09	7.1	1.3	0.8 - 1.7
VITROS - TBIL						
VITROS 250,350,400 500,700,750,950	13	1.22	0.14	11.1	1.2	0.8 - 1.7
All Chemistry Instruments	17	1.22	0.13	10.2	1.2	0.8 - 1.7

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	146	5.60	0.35	6.2	5.6	4.5 - 6.6	146	13.16	0.47	3.6	13.2	12.1 - 14.2
All Arsenazo Methods	62	5.69	0.39	6.8	5.8	4.6 - 6.7	62	12.90	0.46	3.6	12.9	11.8 - 13.9
All CPC Methods	82	5.52	0.30	5.4	5.5	4.5 - 6.6	82	13.36	0.38	2.9	13.3	12.3 - 14.4
Abaxis Piccolo												
Abaxis Piccolo - waived	10	6.05	0.19	3.1	6.1	5.0 - 7.1	10	12.82	0.38	3.0	12.9	11.8 - 13.9
All Chemistry Instruments	14	6.02	0.18	2.9	6.0	5.0 - 7.1	14	12.99	0.43	3.3	13.1	11.9 - 14.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	5.79	0.25	4.3	5.8	4.7 - 6.8	18	12.77	0.40	3.1	12.8	11.7 - 13.8
Beckman AU												
Beckman AU systems	26	5.83	0.14	2.5	5.8	4.8 - 6.9	26	13.59	0.35	2.6	13.7	12.5 - 14.6
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	5.51	0.18	3.3	5.5	4.5 - 6.6	14	13.41	0.41	3.1	13.4	12.4 - 14.5
Roche Integra												
Roche Integra	13	5.40	0.12	2.1	5.4	4.4 - 6.4	13	13.30	0.29	2.2	13.2	12.3 - 14.3
Siemens Healthcare												
Siemens Dimension	19	5.15	0.20	3.8	5.1	4.1 - 6.2	19	13.04	0.32	2.4	13.1	12.0 - 14.1
All Chemistry Instruments	20	5.17	0.20	3.9	5.1	4.1 - 6.2	20	13.05	0.31	2.4	13.1	12.0 - 14.1
VITROS												
VITROS 250,350,400 500,700,750,950	13	5.22	0.14	2.6	5.3	4.2 - 6.3	13	12.80	0.24	1.9	12.8	11.8 - 13.8
All Chemistry Instruments	17	5.25	0.19	3.7	5.3	4.2 - 6.3	17	12.79	0.28	2.2	12.8	11.7 - 13.8

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	133	7.28	0.21	2.9	7.3	6.2 - 8.3	136	10.94	0.30	2.8	11.0	9.9 - 12.0
All Arsenazo Methods	50	7.34	0.23	3.1	7.4	6.3 - 8.4	52	10.91	0.31	2.8	11.0	9.9 - 12.0
All CPC Methods	81	7.25	0.19	2.7	7.2	6.2 - 8.3	82	10.96	0.30	2.8	11.0	9.9 - 12.0
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	7.5	6.3 - 8.4	3	-	-	-	11.3	9.9 - 12.0
All Chemistry Instruments	4	-	-	-	7.6	6.4 - 8.5	4	-	-	-	11.2	10.1 - 12.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	7.49	0.20	2.7	7.5	6.4 - 8.5	18	10.99	0.27	2.5	11.0	9.9 - 12.0
Beckman AU												
Beckman AU systems	26	7.20	0.16	2.2	7.2	6.2 - 8.3	26	11.08	0.22	2.0	11.1	10.0 - 12.1
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	7.24	0.25	3.4	7.2	6.2 - 8.3	14	11.07	0.36	3.3	11.0	10.0 - 12.1
Roche Integra												
Roche Integra	13	7.33	0.15	2.1	7.4	6.3 - 8.4	13	10.97	0.18	1.7	11.0	9.9 - 12.0
Siemens Healthcare												
Siemens Dimension	18	7.17	0.21	2.9	7.2	6.1 - 8.2	19	10.66	0.27	2.5	10.7	9.6 - 11.7
All Chemistry Instruments	19	7.18	0.21	2.9	7.2	6.1 - 8.2	20	10.67	0.26	2.5	10.7	9.6 - 11.7
VITROS												
VITROS 250,350,400 500,700,750,950	13	7.28	0.17	2.4	7.3	6.2 - 8.3	13	10.85	0.22	2.0	10.8	9.8 - 11.9
All Chemistry Instruments	17	7.26	0.18	2.5	7.3	6.2 - 8.3	17	10.84	0.25	2.3	10.8	9.8 - 11.9

Calcium (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	135	8.84	0.26	2.9	8.8	7.8 - 9.9
All Arsenazo Methods	51	8.90	0.26	3.0	8.9	7.9 - 10.0
All CPC Methods	81	8.79	0.23	2.7	8.8	7.7 - 9.8
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	9.2	7.9 - 10.0
All Chemistry Instruments	4	-	-	-	9.3	8.1 - 10.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	18	9.06	0.20	2.2	9.1	8.0 - 10.1
Beckman AU						
Beckman AU systems	26	8.83	0.20	2.3	8.9	7.8 - 9.9
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	14	8.91	0.29	3.3	8.9	7.9 - 10.0
Roche Integra						
Roche Integra	13	8.85	0.19	2.1	8.9	7.8 - 9.9
Siemens Healthcare						
Siemens Dimension	19	8.59	0.24	2.8	8.6	7.5 - 9.6
All Chemistry Instruments	20	8.61	0.24	2.8	8.6	7.6 - 9.7
VITROS						
VITROS 250,350,400 500,700,750,950	13	8.85	0.19	2.2	8.8	7.8 - 9.9
All Chemistry Instruments	17	8.84	0.19	2.2	8.8	7.8 - 9.9

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	145	5.65	0.45	8.0	5.6	4.8 - 6.5	144	5.03	0.38	7.5	5.1	4.2 - 5.8
All Alfa Wassermann Reagents	19	5.24	0.19	3.7	5.3	4.4 - 6.1	19	4.69	0.20	4.3	4.7	3.9 - 5.4
All Roche Reagents	22	5.43	0.29	5.2	5.4	4.6 - 6.3	22	4.64	0.33	7.1	4.6	3.9 - 5.4
All VITROS Reagents	17	6.52	0.17	2.6	6.5	5.5 - 7.5	17	5.14	0.16	3.2	5.1	4.3 - 6.0
Abaxis Piccolo												
Abaxis Piccolo - waived	10	6.02	0.19	3.1	6.0	5.1 - 7.0	10	5.36	0.23	4.3	5.4	4.5 - 6.2
All Chemistry Instruments	14	5.95	0.24	4.1	6.0	5.0 - 6.9	14	5.35	0.27	5.0	5.4	4.5 - 6.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	5.24	0.19	3.7	5.3	4.4 - 6.1	19	4.69	0.20	4.3	4.7	3.9 - 5.4
Beckman AU												
Beckman AU systems	26	5.52	0.21	3.8	5.5	4.6 - 6.4	25	5.13	0.21	4.2	5.2	4.3 - 6.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	5.20	0.30	5.8	5.3	4.4 - 6.0	15	4.79	0.30	6.3	4.8	4.0 - 5.6
Roche Integra												
Roche Integra	13	5.33	0.17	3.2	5.3	4.5 - 6.2	13	4.59	0.13	2.9	4.6	3.9 - 5.3
Siemens Healthcare												
Siemens Dimension	19	5.77	0.13	2.2	5.8	4.9 - 6.7	19	5.38	0.11	2.0	5.4	4.5 - 6.2
All Chemistry Instruments	20	5.78	0.13	2.2	5.8	4.9 - 6.7	20	5.39	0.11	2.0	5.4	4.5 - 6.2
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	10	6.60	0.13	2.0	6.6	5.6 - 7.6	10	5.21	0.12	2.3	5.2	4.4 - 6.0
All Chemistry Instruments	14	6.51	0.18	2.8	6.5	5.5 - 7.5	14	5.13	0.17	3.4	5.1	4.3 - 5.9

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	133	0.58	0.09	16.0	0.6	0.2 - 0.9	135	3.35	0.18	5.4	3.4	2.8 - 3.9
All Alfa Wassermann Reagents	19	0.73	0.06	7.7	0.7	0.4 - 1.1	19	3.27	0.14	4.2	3.3	2.7 - 3.8
All Roche Reagents	21	0.56	0.07	12.1	0.5	0.2 - 0.9	22	3.24	0.16	5.1	3.2	2.7 - 3.8
All VITROS Reagents	17	0.58	0.04	6.7	0.6	0.2 - 0.9	17	3.50	0.09	2.5	3.5	2.9 - 4.1
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	0.7	0.2 - 0.9	3	-	-	-	3.5	2.8 - 3.9
All Chemistry Instruments	4	-	-	-	0.7	0.4 - 1.1	4	-	-	-	3.5	2.9 - 4.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	0.73	0.06	7.7	0.7	0.4 - 1.1	19	3.27	0.14	4.2	3.3	2.7 - 3.8
Beckman AU												
Beckman AU systems	26	0.55	0.06	11.7	0.6	0.2 - 0.9	25	3.40	0.11	3.3	3.4	2.8 - 4.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	0.50	0.04	7.9	0.5	0.1 - 0.8	15	3.18	0.20	6.3	3.2	2.7 - 3.7
Roche Integra												
Roche Integra	12	0.56	0.05	9.2	0.6	0.2 - 0.9	13	3.19	0.11	3.5	3.2	2.7 - 3.7
Siemens Healthcare												
Siemens Dimension	19	0.51	0.04	8.0	0.5	0.2 - 0.9	19	3.47	0.06	1.6	3.5	2.9 - 4.0
All Chemistry Instruments	20	0.50	0.05	9.2	0.5	0.2 - 0.8	20	3.48	0.06	1.6	3.5	2.9 - 4.0
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	10	0.59	0.03	5.4	0.6	0.2 - 0.9	10	3.52	0.10	2.9	3.5	2.9 - 4.1
All Chemistry Instruments	14	0.59	0.04	6.2	0.6	0.2 - 0.9	14	3.50	0.10	2.7	3.5	2.9 - 4.1

Creatinine (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	136	1.78	0.11	6.1	1.8	1.4 - 2.1
All Alfa Wassermann Reagents	19	1.86	0.10	5.1	1.9	1.5 - 2.2
All Roche Reagents	22	1.73	0.09	5.2	1.7	1.4 - 2.1
All VITROS Reagents	16	1.83	0.04	2.5	1.8	1.5 - 2.2
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	1.8	1.4 - 2.1
All Chemistry Instruments	4	-	-	-	1.8	1.5 - 2.1
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	19	1.86	0.10	5.1	1.9	1.5 - 2.2
Beckman AU						
Beckman AU systems	25	1.79	0.06	3.4	1.8	1.4 - 2.1
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	15	1.66	0.13	7.8	1.7	1.3 - 2.0
Roche Integra						
Roche Integra	13	1.72	0.06	3.5	1.7	1.4 - 2.1
Siemens Healthcare						
Siemens Dimension	19	1.81	0.07	3.6	1.8	1.5 - 2.2
All Chemistry Instruments	20	1.81	0.06	3.5	1.8	1.5 - 2.2
VITROS - CREA						
VITROS 250,350,400 500,700,750,950	10	1.81	0.09	4.8	1.8	1.5 - 2.2
All Chemistry Instruments	14	1.81	0.07	4.0	1.8	1.5 - 2.2

Glucose (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-1</u>						<u>Specimen CH-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	151	55.5	4.1	7.5	56	49 - 62	152	257.2	8.9	3.5	257	231 - 283
All Alfa Wassermann Reagents	20	59.1	2.1	3.5	59	53 - 66	20	256.8	6.2	2.4	256	231 - 283
All Horiba Pentra Reagents	14	52.3	2.9	5.6	52	46 - 59	15	252.7	12.3	4.9	252	227 - 278
All Roche Reagents	21	53.3	1.4	2.6	53	47 - 60	22	259.0	5.7	2.2	259	233 - 285
Abaxis Piccolo												
Abaxis Piccolo - waived	10	57.4	0.8	1.5	58	51 - 64	10	253.6	3.3	1.3	253	228 - 279
All Chemistry Instruments	14	57.4	1.1	1.9	58	51 - 64	14	253.2	3.5	1.4	253	227 - 279
Alere Cholestech LDX												
Alere Cholestech LDX - waived	6	55.7	1.6	2.9	56	49 - 62	6	242.5	12.9	5.3	239	218 - 267
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	59.1	2.1	3.5	59	53 - 66	20	256.8	6.2	2.4	256	231 - 283
Beckman AU												
Beckman AU systems	25	50.1	1.2	2.4	50	44 - 57	26	252.3	6.8	2.7	255	227 - 278
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	52.3	2.9	5.6	52	46 - 59	15	252.7	12.3	4.9	252	227 - 278
Roche cobas c 501												
Roche cobas 6000 / c 501	8	53.5	1.1	2.0	53	47 - 60	8	258.9	3.5	1.3	259	232 - 285
Roche Integra												
Roche Integra	12	52.8	1.1	2.1	53	46 - 59	13	258.0	5.8	2.2	258	232 - 284
Siemens Healthcare												
Siemens Dimension	19	60.3	1.9	3.2	60	54 - 67	19	262.0	4.4	1.7	261	235 - 289
All Chemistry Instruments	20	60.2	2.0	3.2	60	54 - 67	20	261.8	4.4	1.7	261	235 - 288
VITROS												
VITROS 250,350,400 500,700,750,950	13	57.8	2.2	3.9	58	51 - 64	13	266.8	6.7	2.5	265	240 - 294
All Chemistry Instruments	17	58.1	2.0	3.4	58	52 - 65	17	267.4	7.1	2.7	265	240 - 295

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	136	54.9	3.0	5.4	55	48 - 61	133	177.5	5.3	3.0	178	159 - 196
All Alfa Wassermann Reagents	20	58.2	1.7	2.9	58	52 - 65	19	179.3	4.6	2.6	180	161 - 198
All Horiba Pentra Reagents	14	53.9	2.8	5.2	54	47 - 60	15	170.7	7.8	4.6	170	153 - 188
All Roche Reagents	22	55.3	1.4	2.5	55	49 - 62	21	179.0	4.0	2.3	179	161 - 197
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	57	48 - 61	3	-	-	-	176	159 - 196
All Chemistry Instruments	4	-	-	-	58	51 - 64	4	-	-	-	176	158 - 194
Alere Cholestech LDX												
Alere Cholestech LDX - waived	1	-	-	-	50	48 - 61	1	-	-	-	179	159 - 196
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	58.2	1.7	2.9	58	52 - 65	19	179.3	4.6	2.6	180	161 - 198
Beckman AU												
Beckman AU systems	26	54.5	1.7	3.1	55	48 - 61	26	175.0	4.8	2.8	177	157 - 193
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	53.9	2.8	5.2	54	47 - 60	15	170.7	7.8	4.6	170	153 - 188
Roche cobas c 501												
Roche cobas 6000 / c 501	8	54.8	1.3	2.3	55	48 - 61	8	177.6	3.7	2.1	179	159 - 196
Roche Integra												
Roche Integra	13	55.3	1.0	1.9	55	49 - 62	12	178.9	2.6	1.4	179	161 - 197
Siemens Healthcare												
Siemens Dimension	19	55.7	1.3	2.4	56	49 - 62	19	180.1	1.8	1.0	180	162 - 199
All Chemistry Instruments	20	55.7	1.3	2.3	56	49 - 62	20	180.1	1.8	1.0	180	162 - 199
VITROS												
VITROS 250,350,400 500,700,750,950	13	49.8	1.9	3.8	50	43 - 56	13	177.4	5.1	2.9	178	159 - 196
All Chemistry Instruments	17	49.9	1.7	3.4	50	43 - 56	17	177.6	5.1	2.9	176	159 - 196

Glucose (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	135	106.6	3.5	3.3	107	95 - 118
All Alfa Wassermann Reagents	20	109.8	2.4	2.2	110	98 - 121
All Horiba Pentra Reagents	15	102.6	4.6	4.5	103	92 - 113
All Roche Reagents	21	107.0	1.7	1.6	107	96 - 118
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	105	95 - 118
All Chemistry Instruments	4	-	-	-	106	95 - 117
Alere Cholestech LDX						
Alere Cholestech LDX - waived	1	-	-	-	105	95 - 118
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	109.8	2.4	2.2	110	98 - 121
Beckman AU						
Beckman AU systems	26	105.4	3.1	3.0	106	94 - 116
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	15	102.6	4.6	4.5	103	92 - 113
Roche cobas c 501						
Roche cobas 6000 / c 501	8	106.1	1.6	1.5	106	95 - 117
Roche Integra						
Roche Integra	12	107.4	1.5	1.4	108	96 - 119
Siemens Healthcare						
Siemens Dimension	19	108.1	1.7	1.6	108	97 - 119
All Chemistry Instruments	20	108.1	1.7	1.6	108	97 - 119
VITROS						
VITROS 250,350,400 500,700,750,950	13	104.2	3.4	3.3	104	93 - 115
All Chemistry Instruments	17	104.6	3.3	3.1	105	94 - 116

Iron (µg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	61	170.6	12.2	7.1	166	136 - 205	61	228.8	18.8	8.2	225	183 - 275
All Roche Reagents	9	165.1	3.3	2.0	164	132 - 199	9	225.6	2.7	1.2	225	180 - 271
Beckman AU												
Beckman AU systems	17	180.1	4.4	2.4	179	144 - 217	17	250.4	5.3	2.1	250	200 - 301
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	161.0	4.4	2.7	162	128 - 194	7	209.4	6.2	3.0	212	167 - 252
Roche cobas c 501												
Roche cobas 6000 / c 501	5	166.2	4.0	2.4	164	132 - 200	5	226.6	2.7	1.2	227	181 - 272
Siemens Healthcare												
Siemens Dimension	12	161.8	2.1	1.3	162	129 - 195	12	213.6	2.8	1.3	214	170 - 257
VITROS												
All Chemistry Instruments	5	194.2	6.1	3.1	192	155 - 234	5	254.2	5.2	2.0	253	203 - 306
	Specimen CH-3						Specimen CH-4					
All Method	59	36.3	3.4	9.5	37	29 - 44	61	151.2	11.1	7.3	149	120 - 182
All Roche Reagents	9	38.1	1.8	4.8	38	30 - 46	9	151.0	3.0	2.0	151	120 - 182
Beckman AU												
Beckman AU systems	17	38.6	2.1	5.5	39	30 - 47	17	164.8	3.6	2.2	164	131 - 198
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	34.1	2.1	6.2	33	27 - 41	7	139.9	3.4	2.4	141	111 - 168
Roche cobas c 501												
Roche cobas 6000 / c 501	5	38.2	1.8	4.7	38	30 - 46	5	150.0	2.9	1.9	150	120 - 180
Siemens Healthcare												
Siemens Dimension	12	35.8	1.5	4.1	36	28 - 43	12	142.9	1.9	1.3	144	114 - 172
VITROS												
All Chemistry Instruments	5	26.6	4.9	18.5	26	21 - 32	5	161.4	3.3	2.0	162	129 - 194
	Specimen CH-5											
All Method	61	83.8	5.4	6.4	82	67 - 101						
All Roche Reagents	9	85.8	2.6	3.0	86	68 - 103						
Beckman AU												
Beckman AU systems	17	90.2	2.7	3.0	90	72 - 109						
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	79.1	1.8	2.2	79	63 - 95						
Roche cobas c 501												
Roche cobas 6000 / c 501	5	86.8	3.0	3.5	88	69 - 105						
Siemens Healthcare												
Siemens Dimension	12	80.8	1.6	2.0	81	64 - 97						
VITROS												
All Chemistry Instruments	5	81.0	4.7	5.9	80	64 - 98						

Lactate (Lactic Acid) (mmol/L)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.10	0.14	141.4	0.1	0.0 - 0.6	5	7.55	0.21	2.8	7.6	6.9 - 8.2
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.25	0.07	28.3	0.3	0.0 - 0.7	5	4.65	0.07	1.5	4.7	4.2 - 5.1
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	2.10	0.14	6.7	2.1	1.6 - 2.6						

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	78	1.33	0.11	8.2	1.3	0.9 - 1.7	78	4.81	0.30	6.1	4.8	3.6 - 6.1
All Horiba Pentra Reagents	14	1.37	0.11	7.9	1.4	1.0 - 1.8	14	4.51	0.45	9.9	4.5	3.3 - 5.7
All Roche Reagents	18	1.35	0.06	4.6	1.4	1.0 - 1.7	18	4.67	0.15	3.3	4.7	3.5 - 5.9
Beckman AU												
Beckman AU systems	17	1.36	0.08	5.9	1.4	1.0 - 1.7	17	4.82	0.18	3.7	4.9	3.6 - 6.1
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	1.37	0.11	7.9	1.4	1.0 - 1.8	14	4.51	0.45	9.9	4.5	3.3 - 5.7
Roche Integra												
Roche Integra	10	1.37	0.05	3.5	1.4	1.0 - 1.8	10	4.60	0.13	2.9	4.7	3.4 - 5.8
Siemens Healthcare												
Siemens Dimension	12	1.36	0.17	12.3	1.4	1.0 - 1.7	12	5.04	0.18	3.6	5.1	3.7 - 6.4
<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	79	1.37	0.10	7.2	1.4	1.0 - 1.8	78	3.46	0.20	5.9	3.4	2.5 - 4.4
All Horiba Pentra Reagents	14	1.34	0.14	10.4	1.3	1.0 - 1.7	14	3.24	0.29	8.8	3.2	2.4 - 4.1
All Roche Reagents	18	1.37	0.06	4.2	1.4	1.0 - 1.8	18	3.39	0.09	2.8	3.4	2.5 - 4.3
Beckman AU												
Beckman AU systems	17	1.37	0.07	5.0	1.4	1.0 - 1.8	17	3.46	0.13	3.7	3.5	2.5 - 4.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	1.34	0.14	10.4	1.3	1.0 - 1.7	14	3.24	0.29	8.8	3.2	2.4 - 4.1
Roche Integra												
Roche Integra	10	1.39	0.06	4.1	1.4	1.0 - 1.8	10	3.39	0.09	2.6	3.4	2.5 - 4.3
Siemens Healthcare												
Siemens Dimension	12	1.38	0.11	8.3	1.4	1.0 - 1.8	12	3.62	0.16	4.4	3.6	2.7 - 4.6
<u>Reagent/Instrument</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	78	2.25	0.13	5.8	2.3	1.6 - 2.9						
All Horiba Pentra Reagents	14	2.10	0.16	7.6	2.1	1.5 - 2.7						
All Roche Reagents	18	2.23	0.06	2.6	2.2	1.6 - 2.8						
Beckman AU												
Beckman AU systems	17	2.26	0.08	3.5	2.3	1.6 - 2.9						
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	2.10	0.16	7.6	2.1	1.5 - 2.7						
Roche Integra												
Roche Integra	10	2.24	0.05	2.3	2.2	1.6 - 2.8						
Siemens Healthcare												
Siemens Dimension	12	2.33	0.17	7.1	2.4	1.7 - 3.0						

Phosphorus (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	54	1.99	0.24	12.3	2.0	1.6 - 2.3	54	5.79	0.41	7.1	5.7	5.2 - 6.4
All Roche Reagents	14	1.82	0.09	4.9	1.8	1.5 - 2.2	14	5.66	0.13	2.4	5.7	5.0 - 6.3
Beckman AU												
Beckman AU systems	11	1.84	0.10	5.6	1.8	1.5 - 2.2	11	5.72	0.20	3.6	5.7	5.1 - 6.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	2.26	0.13	5.8	2.2	1.9 - 2.6	8	6.46	0.27	4.1	6.5	5.8 - 7.2
Roche cobas c 501												
Roche cobas 6000 / c 501	5	1.80	0.07	3.9	1.8	1.5 - 2.1	5	5.76	0.11	2.0	5.8	5.1 - 6.4
Roche Integra												
Roche Integra	8	1.84	0.11	5.8	1.9	1.5 - 2.2	8	5.59	0.10	1.8	5.6	5.0 - 6.2
Siemens Healthcare												
Siemens Dimension	7	2.09	0.07	3.3	2.1	1.7 - 2.4	7	6.09	0.16	2.6	6.1	5.4 - 6.7
VITROS												
VITROS 250,350,400 500,700,750,950	5	2.24	0.11	5.1	2.2	1.9 - 2.6	5	5.36	0.22	4.1	5.5	4.8 - 5.9
All Chemistry Instruments	7	2.27	0.11	4.9	2.3	1.9 - 2.6	7	5.40	0.20	3.7	5.5	4.8 - 6.0
<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	54	1.80	0.14	7.7	1.8	1.4 - 2.1	54	4.21	0.29	7.0	4.1	3.7 - 4.7
All Roche Reagents	14	1.71	0.07	4.3	1.7	1.4 - 2.1	14	4.13	0.13	3.2	4.1	3.7 - 4.6
Beckman AU												
Beckman AU systems	11	1.69	0.10	6.2	1.7	1.3 - 2.0	11	4.12	0.13	3.0	4.1	3.7 - 4.6
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	1.96	0.07	3.8	2.0	1.6 - 2.3	8	4.75	0.21	4.4	4.7	4.2 - 5.3
Roche cobas c 501												
Roche cobas 6000 / c 501	5	1.66	0.05	3.3	1.7	1.3 - 2.0	5	4.12	0.08	2.0	4.1	3.7 - 4.6
Roche Integra												
Roche Integra	8	1.73	0.07	4.1	1.7	1.4 - 2.1	8	4.10	0.13	3.2	4.1	3.6 - 4.6
Siemens Healthcare												
Siemens Dimension	7	1.86	0.05	2.9	1.9	1.5 - 2.2	7	4.39	0.07	1.6	4.4	3.9 - 4.9
VITROS												
VITROS 250,350,400 500,700,750,950	5	1.92	0.11	5.7	1.9	1.6 - 2.3	5	3.98	0.08	2.1	4.0	3.5 - 4.4
All Chemistry Instruments	7	1.94	0.10	5.0	1.9	1.6 - 2.3	7	3.99	0.07	1.7	4.0	3.5 - 4.4

Phosphorus (mg/dL) cont'd

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	53	2.81	0.19	6.6	2.8	2.5 - 3.2
All Roche Reagents	14	2.70	0.09	3.2	2.7	2.4 - 3.0
Beckman AU						
Beckman AU systems	11	2.86	0.39	13.7	2.8	2.5 - 3.2
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	8	3.06	0.09	3.0	3.1	2.7 - 3.4
Roche cobas c 501						
Roche cobas 6000 / c 501	5	2.68	0.04	1.7	2.7	2.3 - 3.0
Roche Integra						
Roche Integra	8	2.74	0.07	2.7	2.8	2.4 - 3.1
Siemens Healthcare						
Siemens Dimension	7	2.93	0.10	3.2	2.9	2.6 - 3.3
VITROS						
VITROS 250,350,400 500,700,750,950	5	2.88	0.11	3.8	2.9	2.5 - 3.2
All Chemistry Instruments	7	2.89	0.09	3.1	2.9	2.5 - 3.2

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-1</u>						<u>Specimen CH-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	142	10.90	0.45	4.2	10.9	9.8 - 12.0	141	9.44	0.40	4.2	9.5	8.4 - 10.4
All Alfa Wassermann Reagents	17	10.96	0.23	2.1	11.0	9.8 - 12.1	17	9.74	0.18	1.9	9.8	8.7 - 10.8
All Horiba Pentra Reagents	15	10.59	0.37	3.5	10.6	9.5 - 11.7	15	9.40	0.34	3.6	9.4	8.4 - 10.4
All Roche Reagents	22	10.48	0.31	3.0	10.5	9.4 - 11.6	22	9.15	0.28	3.1	9.1	8.2 - 10.1
Abaxis Piccolo												
Abaxis Piccolo - waived	10	11.08	0.30	2.8	11.2	9.9 - 12.2	10	9.56	0.21	2.2	9.5	8.6 - 10.6
All Chemistry Instruments	14	11.10	0.29	2.6	11.2	9.9 - 12.3	14	9.59	0.19	2.0	9.6	8.6 - 10.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	10.96	0.23	2.1	11.0	9.8 - 12.1	17	9.74	0.18	1.9	9.8	8.7 - 10.8
Beckman AU												
Beckman AU systems	26	10.70	0.41	3.8	10.8	9.6 - 11.8	25	9.42	0.27	2.9	9.4	8.4 - 10.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	10.59	0.37	3.5	10.6	9.5 - 11.7	15	9.40	0.34	3.6	9.4	8.4 - 10.4
Roche Integra												
Roche Integra	13	10.28	0.22	2.2	10.3	9.2 - 11.4	13	8.95	0.17	1.9	9.0	8.0 - 9.9
Siemens Healthcare												
Siemens Dimension	19	11.34	0.20	1.8	11.3	10.2 - 12.5	19	9.92	0.17	1.7	9.9	8.9 - 11.0
VITROS												
VITROS 250,350,400 500,700,750,950	13	11.39	0.40	3.5	11.5	10.2 - 12.6	13	8.95	0.44	4.9	9.1	8.0 - 9.9
All Chemistry Instruments	17	11.35	0.40	3.5	11.5	10.2 - 12.5	17	8.91	0.40	4.5	8.9	8.0 - 9.8

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	132	2.84	0.12	4.2	2.9	2.5 - 3.2	133	6.86	0.27	3.9	6.9	6.1 - 7.6
All Alfa Wassermann Reagents	18	2.87	0.09	3.1	2.9	2.5 - 3.2	18	7.07	0.16	2.3	7.1	6.3 - 7.8
All Horiba Pentra Reagents	15	2.83	0.10	3.7	2.8	2.5 - 3.2	15	6.83	0.25	3.6	6.8	6.1 - 7.6
All Roche Reagents	22	2.77	0.12	4.5	2.8	2.4 - 3.1	22	6.73	0.24	3.5	6.7	6.0 - 7.5
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	3.0	2.5 - 3.2	3	-	-	-	6.7	6.1 - 7.6
All Chemistry Instruments	4	-	-	-	3.0	2.6 - 3.3	4	-	-	-	6.8	6.1 - 7.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	2.87	0.09	3.1	2.9	2.5 - 3.2	18	7.07	0.16	2.3	7.1	6.3 - 7.8
Beckman AU												
Beckman AU systems	26	2.82	0.13	4.6	2.8	2.5 - 3.1	26	6.80	0.23	3.4	6.8	6.1 - 7.5
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	2.83	0.10	3.7	2.8	2.5 - 3.2	15	6.83	0.25	3.6	6.8	6.1 - 7.6
Roche Integra												
Roche Integra	13	2.68	0.08	3.0	2.7	2.4 - 3.0	13	6.56	0.12	1.8	6.6	5.9 - 7.3
Siemens Healthcare												
Siemens Dimension	19	2.90	0.09	3.3	2.9	2.6 - 3.2	19	7.17	0.17	2.3	7.2	6.4 - 7.9
VITROS												
VITROS 250,350,400 500,700,750,950	13	2.88	0.09	3.1	2.9	2.5 - 3.2	13	6.68	0.16	2.4	6.7	6.0 - 7.4
All Chemistry Instruments	17	2.88	0.10	3.3	2.9	2.5 - 3.2	17	6.65	0.17	2.5	6.7	5.9 - 7.4

Protein, Total (g/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	132	4.56	0.16	3.4	4.6	4.1 - 5.1
All Alfa Wassermann Reagents	18	4.64	0.13	2.8	4.6	4.1 - 5.2
All Horiba Pentra Reagents	15	4.53	0.14	3.1	4.5	4.0 - 5.0
All Roche Reagents	22	4.45	0.14	3.1	4.4	4.0 - 4.9
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	4.6	4.1 - 5.1
All Chemistry Instruments	4	-	-	-	4.6	4.1 - 5.1
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	18	4.64	0.13	2.8	4.6	4.1 - 5.2
Beckman AU						
Beckman AU systems	26	4.50	0.17	3.8	4.5	4.0 - 5.0
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	15	4.53	0.14	3.1	4.5	4.0 - 5.0
Roche Integra						
Roche Integra	13	4.35	0.05	1.2	4.4	3.9 - 4.8
Siemens Healthcare						
Siemens Dimension	19	4.73	0.10	2.2	4.7	4.2 - 5.2
VITROS						
VITROS 250,350,400 500,700,750,950	13	4.57	0.09	1.9	4.6	4.1 - 5.1
All Chemistry Instruments	17	4.57	0.09	2.0	4.6	4.1 - 5.1

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	141	6.1	1.0	16.2	6	4 - 9	142	44.6	2.7	6.1	45	40 - 49
All Alfa Wassermann Reagents	18	5.8	0.4	6.6	6	3 - 8	19	44.8	1.9	4.2	44	40 - 49
All Horiba Pentra Reagents	14	5.9	1.1	17.8	6	3 - 8	15	41.5	2.3	5.5	42	37 - 46
All Roche Reagents	21	6.0	0.4	6.4	6	4 - 9	21	45.7	0.9	2.0	46	41 - 50
Abaxis Piccolo												
Abaxis Piccolo - waived	10	6.8	0.4	6.2	7	4 - 9	10	44.4	0.7	1.6	44	40 - 49
All Chemistry Instruments	14	6.9	0.5	6.9	7	4 - 9	14	44.4	0.9	1.9	44	40 - 49
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	5.8	0.4	6.6	6	3 - 8	19	44.8	1.9	4.2	44	40 - 49
Beckman AU												
Beckman AU systems	26	6.7	0.6	8.4	7	4 - 9	26	46.3	2.1	4.5	47	42 - 51
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	5.9	1.1	17.8	6	3 - 8	15	41.5	2.3	5.5	42	37 - 46
Roche Integra												
Roche Integra	12	6.1	0.5	8.5	6	4 - 9	12	45.8	1.0	2.2	46	41 - 50
Siemens Healthcare												
Siemens Dimension	18	6.3	0.8	12.1	6	4 - 9	18	46.8	1.1	2.3	47	42 - 51
All Chemistry Instruments	19	6.4	0.8	11.9	6	4 - 9	19	46.7	1.0	2.2	46	42 - 51
VITROS												
VITROS 250,350,400 500,700,750,950	13	4.3	0.5	11.2	4	2 - 7	13	39.8	1.3	3.4	40	36 - 44
All Chemistry Instruments	17	4.2	0.5	12.7	4	2 - 7	17	39.8	1.4	3.6	40	36 - 44

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	134	6.4	0.9	13.7	7	4 - 9	133	29.1	2.2	7.4	30	26 - 32
All Alfa Wassermann Reagents	19	6.6	0.6	9.2	7	4 - 9	19	29.8	1.5	4.9	30	27 - 33
All Horiba Pentra Reagents	15	6.3	0.5	7.5	6	4 - 9	15	27.4	1.7	6.1	28	24 - 30
All Roche Reagents	22	6.6	0.5	7.4	7	4 - 9	21	30.0	0.7	2.5	30	27 - 33
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	7	4 - 9	3	-	-	-	28	26 - 32
All Chemistry Instruments	4	-	-	-	7	4 - 9	4	-	-	-	28	25 - 31
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	6.6	0.6	9.2	7	4 - 9	19	29.8	1.5	4.9	30	27 - 33
Beckman AU												
Beckman AU systems	26	7.0	0.4	5.7	7	5 - 9	26	30.8	1.4	4.5	31	28 - 34
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	6.3	0.5	7.5	6	4 - 9	15	27.4	1.7	6.1	28	24 - 30
Roche Integra												
Roche Integra	13	6.6	0.5	7.7	7	4 - 9	12	30.1	0.7	2.2	30	27 - 33
Siemens Healthcare												
Siemens Dimension	18	6.4	0.8	12.2	7	4 - 9	18	30.3	1.0	3.2	30	27 - 34
All Chemistry Instruments	19	6.5	0.8	11.9	7	4 - 9	19	30.3	0.9	3.1	30	27 - 33
VITROS												
VITROS 250,350,400 500,700,750,950	13	4.8	0.4	7.7	5	2 - 7	13	25.5	0.8	3.0	25	23 - 28
All Chemistry Instruments	17	4.7	0.5	10.0	5	2 - 7	17	25.3	0.9	3.6	25	23 - 28

Urea Nitrogen (mg/dL)

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	132	16.0	1.3	7.9	16	14 - 19
All Alfa Wassermann Reagents	19	16.4	0.7	4.2	16	14 - 19
All Horiba Pentra Reagents	15	15.3	0.8	5.2	15	13 - 18
All Roche Reagents	21	16.3	0.6	4.0	16	14 - 19
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	15	14 - 19
All Chemistry Instruments	4	-	-	-	15	13 - 18
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	19	16.4	0.7	4.2	16	14 - 19
Beckman AU						
Beckman AU systems	26	17.0	0.6	3.7	17	15 - 19
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	15	15.3	0.8	5.2	15	13 - 18
Roche Integra						
Roche Integra	12	16.3	0.8	4.8	17	14 - 19
Siemens Healthcare						
Siemens Dimension	18	16.6	1.0	5.9	17	14 - 19
All Chemistry Instruments	19	16.5	1.0	5.8	17	14 - 19
VITROS						
VITROS 250,350,400 500,700,750,950	13	13.8	0.7	5.3	14	11 - 16
All Chemistry Instruments	17	13.5	0.8	5.9	13	11 - 16

Uric Acid (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	2.13	0.31	14.7	2.0	1.7 - 2.5	87	10.86	0.45	4.1	10.8	9.0 - 12.8
All Alfa Wassermann Reagents	11	3.07	0.17	5.7	3.1	2.5 - 3.6	11	10.38	0.31	3.0	10.3	8.6 - 12.2
All Roche Reagents	16	1.91	0.07	3.8	1.9	1.5 - 2.3	16	10.79	0.28	2.6	10.9	8.9 - 12.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	3.07	0.17	5.7	3.1	2.5 - 3.6	11	10.38	0.31	3.0	10.3	8.6 - 12.2
Beckman AU												
Beckman AU systems	17	1.99	0.07	3.5	2.0	1.6 - 2.4	18	11.04	0.30	2.7	11.0	9.1 - 13.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	10	1.98	0.08	4.0	2.0	1.6 - 2.4	10	10.69	0.24	2.2	10.8	8.8 - 12.6
Roche Integra												
Roche Integra	10	1.93	0.07	3.5	1.9	1.6 - 2.3	10	10.94	0.22	2.0	11.0	9.0 - 12.8
Siemens Healthcare												
Siemens Dimension	14	2.14	0.08	3.5	2.2	1.7 - 2.6	14	10.55	0.25	2.4	10.6	8.7 - 12.4
All Chemistry Instruments	15	2.13	0.08	3.8	2.2	1.7 - 2.5	15	10.59	0.28	2.6	10.6	8.7 - 12.4
	Specimen CH-3						Specimen CH-4					
All Method	90	1.94	0.32	16.4	1.9	1.6 - 2.3	91	7.31	0.30	4.2	7.3	6.0 - 8.6
All Alfa Wassermann Reagents	11	2.83	0.21	7.3	2.9	2.3 - 3.4	11	7.19	0.21	2.9	7.2	5.9 - 8.5
All Roche Reagents	16	1.72	0.05	3.2	1.7	1.4 - 2.1	16	7.27	0.20	2.7	7.3	6.0 - 8.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	2.83	0.21	7.3	2.9	2.3 - 3.4	11	7.19	0.21	2.9	7.2	5.9 - 8.5
Beckman AU												
Beckman AU systems	18	1.90	0.07	3.6	1.9	1.5 - 2.3	18	7.48	0.24	3.2	7.5	6.2 - 8.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	10	1.79	0.12	6.7	1.8	1.4 - 2.1	10	7.21	0.19	2.7	7.2	5.9 - 8.5
Roche Integra												
Roche Integra	10	1.74	0.05	3.0	1.7	1.4 - 2.1	10	7.36	0.16	2.1	7.4	6.1 - 8.7
Siemens Healthcare												
Siemens Dimension	15	1.83	0.09	4.9	1.9	1.5 - 2.2	15	7.09	0.10	1.4	7.1	5.8 - 8.3
All Chemistry Instruments	16	1.84	0.09	4.8	1.9	1.5 - 2.2	16	7.11	0.14	2.0	7.1	5.9 - 8.4

Uric Acid (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	89	4.17	0.19	4.6	4.1	3.4 - 4.9
All Alfa Wassermann Reagents	11	4.54	0.16	3.6	4.5	3.7 - 5.4
All Roche Reagents	16	4.07	0.13	3.2	4.1	3.3 - 4.8
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	11	4.54	0.16	3.6	4.5	3.7 - 5.4
Beckman AU						
Beckman AU systems	18	4.23	0.16	3.7	4.2	3.5 - 5.0
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	10	4.06	0.08	2.1	4.1	3.3 - 4.8
Roche Integra						
Roche Integra	10	4.15	0.07	1.7	4.2	3.4 - 4.9
Siemens Healthcare						
Siemens Dimension	15	4.02	0.10	2.5	4.0	3.3 - 4.8
All Chemistry Instruments	16	4.04	0.12	3.0	4.0	3.3 - 4.8

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	144	90.6	4.9	5.4	90	86 - 96	140	118.2	3.6	3.1	118	112 - 125
Abaxis Piccolo												
Abaxis Piccolo - waived	10	100.1	1.9	1.9	101	95 - 106	10	118.3	1.4	1.2	118	112 - 125
Abaxis Piccolo	5	101.0	1.6	1.6	101	95 - 107	5	118.8	1.9	1.6	120	112 - 125
All Chemistry Instruments	15	100.4	1.8	1.8	101	95 - 106	15	118.4	1.5	1.3	119	112 - 125
ISE Diluted												
Beckman AU systems	25	89.8	0.9	1.1	90	85 - 95	24	114.3	1.2	1.1	114	108 - 121
Roche cobas 6000 / c 501	8	87.6	1.8	2.0	88	83 - 93	8	117.1	1.5	1.2	117	111 - 123
Roche Integra	13	86.5	1.1	1.3	86	82 - 91	13	120.5	3.2	2.7	120	114 - 127
Siemens Dimension QuickLyte - Xpand/EXL	16	83.9	0.8	0.9	84	79 - 89	16	122.2	2.0	1.6	123	116 - 129
All Chemistry Instruments	75	88.0	3.3	3.8	88	83 - 93	76	117.9	4.1	3.5	118	112 - 124
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	18	92.0	2.1	2.2	92	87 - 97	17	120.5	2.1	1.7	120	114 - 127
Horiba ABX Pentra 400 / C400	14	88.2	2.5	2.8	89	83 - 93	11	119.6	4.2	3.6	119	113 - 126
All Chemistry Instruments	36	90.5	2.9	3.2	90	85 - 96	33	119.6	3.3	2.7	120	113 - 126
VITROS												
VITROS 250,350,400 500,700,750,950	13	93.1	1.8	2.0	93	88 - 98	13	116.2	1.6	1.4	116	110 - 123
All Chemistry Instruments	17	92.9	1.7	1.8	92	88 - 98	17	116.0	1.5	1.3	116	110 - 122
	Specimen CH-3						Specimen CH-4					
All Method	132	93.5	2.5	2.6	94	88 - 99	130	108.0	2.3	2.1	108	102 - 114
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	100	95 - 106	3	-	-	-	111	105 - 117
Abaxis Piccolo	2	-	-	-	102	95 - 106	2	-	-	-	110	105 - 117
All Chemistry Instruments	5	100.5	1.3	1.3	101	95 - 106	5	111.3	1.9	1.7	111	105 - 117
ISE Diluted												
Beckman AU systems	25	94.0	0.7	0.8	94	89 - 99	24	106.3	0.7	0.7	106	101 - 112
Roche cobas 6000 / c 501	8	92.1	1.8	2.0	92	87 - 97	8	107.0	1.2	1.1	107	101 - 113
Roche Integra	13	94.7	1.6	1.7	95	89 - 100	12	110.0	2.1	1.9	109	104 - 116
Siemens Dimension QuickLyte - Xpand/EXL	16	90.8	0.8	0.9	91	86 - 96	16	109.6	1.3	1.2	110	104 - 116
All Chemistry Instruments	76	93.3	2.0	2.2	94	88 - 98	74	107.9	2.1	2.0	108	102 - 114
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	18	92.9	1.4	1.5	93	88 - 98	18	109.0	1.4	1.3	109	103 - 115
Horiba ABX Pentra 400 / C400	13	91.0	2.6	2.8	91	86 - 96	12	107.0	3.6	3.4	106	101 - 113
All Chemistry Instruments	36	92.5	2.4	2.6	93	87 - 98	35	108.1	2.5	2.3	108	102 - 114
VITROS												
VITROS 250,350,400 500,700,750,950	13	96.0	1.7	1.8	96	91 - 101	13	107.5	1.9	1.7	108	102 - 113
All Chemistry Instruments	17	95.7	1.6	1.6	95	90 - 101	17	107.2	1.7	1.6	107	101 - 113

Chloride (mmol/L)

Specimen CH-5

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	128	99.5	1.7	1.7	99	94 - 105
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	104	99 - 110
Abaxis Piccolo	2	-	-	-	106	99 - 110
All Chemistry Instruments	5	104.8	1.5	1.4	105	99 - 110
ISE Diluted						
Beckman AU systems	25	99.1	0.8	0.8	99	94 - 105
Roche cobas 6000 / c 501	8	98.3	1.2	1.2	98	93 - 104
Roche Integra	13	102.5	4.9	4.8	101	97 - 108
Siemens Dimension QuickLyte - Xpand/EXL	16	98.4	1.0	1.0	98	93 - 104
All Chemistry Instruments	74	99.3	1.4	1.4	99	94 - 105
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	18	99.7	1.4	1.4	100	94 - 105
Horiba ABX Pentra 400 / C400	14	99.0	5.1	5.1	98	94 - 104
All Chemistry Instruments	36	99.0	2.1	2.1	99	94 - 104
VITROS						
VITROS 250,350,400 500,700,750,950	13	100.8	1.7	1.7	101	95 - 106
All Chemistry Instruments	17	100.8	1.6	1.6	101	95 - 106

CO₂ (mmol/L)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	137	9.7	2.2	22.8	10	7 - 12	137	38.7	3.6	9.4	39	30 - 47
Abaxis Piccolo												
Abaxis Piccolo - waived	10	9.9	0.6	6.1	10	7 - 12	10	34.3	1.7	5.0	34	27 - 42
Abaxis Piccolo	5	10.5	0.6	5.5	11	8 - 13	5	34.5	2.4	6.9	35	27 - 42
All Chemistry Instruments	15	10.1	0.6	6.4	10	8 - 13	15	34.4	1.9	5.4	34	27 - 42
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	12	10.0	1.5	15.4	10	8 - 12	12	39.6	3.0	7.6	40	31 - 48
Beckman AU systems	22	10.5	1.1	10.1	11	8 - 13	22	42.0	3.9	9.2	43	33 - 51
Horiba ABX Pentra 400 / C400	13	10.2	1.2	11.4	10	8 - 13	13	37.4	1.6	4.2	38	29 - 45
Roche cobas 6000 / c 501	6	9.0	1.1	12.2	9	7 - 11	6	38.5	1.8	4.6	39	30 - 47
Roche Integra	10	10.1	1.3	12.7	10	8 - 13	12	36.4	2.6	7.1	37	29 - 44
Siemens Dimension	16	11.9	1.2	10.1	12	9 - 15	16	41.6	1.4	3.4	42	33 - 50
All Chemistry Instruments	88	10.6	1.5	14.5	11	8 - 13	90	39.8	3.5	8.8	40	31 - 48
ISE Diluted												
All Chemistry Instruments	9	7.9	1.4	17.3	8	6 - 10	9	37.9	3.1	8.3	38	30 - 46
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	6	9.8	2.1	21.7	10	7 - 12	6	38.0	1.5	4.1	38	30 - 46
All Chemistry Instruments	10	10.1	2.2	22.1	10	8 - 13	10	38.1	2.2	5.9	39	30 - 46
VITROS												
VITROS 250,350,400 500,700,750,950	13	5.8	1.2	20.2	5	4 - 7	13	35.9	4.8	13.4	38	28 - 44
All Chemistry Instruments	17	5.6	1.1	18.7	5	4 - 7	17	35.5	5.7	16.0	38	28 - 43
	Specimen CH-3						Specimen CH-4					
All Method	129	13.0	1.7	13.1	13	10 - 16	128	28.4	2.6	9.2	28	22 - 35
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	13	10 - 15	3	-	-	-	29	23 - 36
Abaxis Piccolo	2	-	-	-	12	10 - 15	2	-	-	-	31	23 - 36
All Chemistry Instruments	5	12.5	0.6	4.6	13	10 - 15	5	29.3	1.3	4.3	29	23 - 36
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	12	12.5	1.1	8.7	13	10 - 15	12	28.3	2.4	8.6	29	22 - 34
Beckman AU systems	21	13.8	0.8	5.6	14	11 - 17	21	30.3	1.6	5.3	30	24 - 37
Horiba ABX Pentra 400 / C400	13	13.1	1.3	10.1	13	10 - 16	13	27.2	1.7	6.2	27	21 - 33
Roche cobas 6000 / c 501	6	12.5	1.2	9.8	12	10 - 15	6	26.0	1.7	6.4	26	20 - 32
Roche Integra	12	12.3	1.6	13.1	13	9 - 15	12	27.9	7.1	25.5	27	22 - 34
Siemens Dimension	15	14.9	1.2	7.8	15	11 - 18	16	30.7	1.4	4.6	31	24 - 37
All Chemistry Instruments	89	13.4	1.6	11.9	14	10 - 17	88	28.7	2.7	9.5	29	22 - 35
ISE Diluted												
All Chemistry Instruments	9	11.9	1.5	12.2	12	9 - 15	9	27.9	2.6	9.4	28	22 - 34
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	6	12.3	1.5	12.2	12	9 - 15	6	28.0	2.0	7.1	27	22 - 34
All Chemistry Instruments	10	12.8	2.0	15.5	13	10 - 16	10	27.9	2.5	8.9	28	22 - 34
VITROS												
VITROS 250,350,400 500,700,750,950	13	11.5	1.7	14.4	11	9 - 14	13	26.5	1.7	6.5	27	21 - 32
All Chemistry Instruments	17	11.7	1.5	12.7	12	9 - 15	17	26.8	1.6	6.1	27	21 - 33

CO₂ (mmol/L)**Specimen CH-5**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	128	19.1	2.2	11.4	19	15 - 23
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	20	16 - 24
Abaxis Piccolo	2	-	-	-	19	16 - 24
All Chemistry Instruments	5	20.0	0.8	4.1	20	16 - 24
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	12	18.7	2.7	14.3	19	14 - 23
Beckman AU systems	22	20.0	1.5	7.3	20	15 - 24
Horiba ABX Pentra 400 / C400	13	18.9	1.3	6.6	19	15 - 23
Roche cobas 6000 / c 501	6	18.2	1.5	8.1	19	14 - 22
Roche Integra	12	18.8	4.3	23.1	18	15 - 23
Siemens Dimension	15	21.3	1.3	6.3	21	17 - 26
All Chemistry Instruments	88	19.5	2.2	11.2	20	15 - 24
ISE Diluted						
All Chemistry Instruments	9	18.3	1.9	10.2	18	14 - 22
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	6	19.0	0.9	4.7	19	15 - 23
All Chemistry Instruments	10	18.6	1.6	8.9	19	14 - 23
VITROS						
VITROS 250,350,400 500,700,750,950	13	16.9	1.8	10.6	17	13 - 21
All Chemistry Instruments	17	17.2	1.7	10.0	17	13 - 21

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	143	2.57	0.14	5.3	2.5	2.0 - 3.1	145	7.39	0.20	2.7	7.4	6.8 - 7.9
Abaxis Piccolo												
Abaxis Piccolo - waived	10	2.39	0.16	6.7	2.4	1.8 - 2.9	10	7.40	0.22	3.0	7.4	6.9 - 7.9
Abaxis Piccolo	5	2.35	0.31	13.2	2.5	1.8 - 2.9	5	7.28	0.46	6.3	7.3	6.7 - 7.8
All Chemistry Instruments	15	2.38	0.20	8.4	2.4	1.8 - 2.9	15	7.36	0.29	4.0	7.4	6.8 - 7.9
ISE Diluted												
Beckman AU systems	25	2.50	0.05	2.2	2.5	1.9 - 3.0	24	7.23	0.08	1.1	7.2	6.7 - 7.8
Roche cobas 6000 / c 501	8	2.63	0.05	1.8	2.6	2.1 - 3.2	8	7.51	0.06	0.9	7.5	7.0 - 8.1
Roche Integra	12	2.50	0.01	0.0	2.5	2.0 - 3.0	13	7.32	0.04	0.6	7.3	6.8 - 7.9
Siemens Dimension QuickLyte - Xpand/EXL	16	2.40	0.01	0.0	2.4	1.9 - 2.9	17	7.39	0.07	0.9	7.4	6.8 - 7.9
All Chemistry Instruments	78	2.50	0.08	3.3	2.5	1.9 - 3.0	77	7.34	0.13	1.8	7.3	6.8 - 7.9
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	17	2.68	0.09	3.4	2.7	2.1 - 3.2	17	7.58	0.19	2.5	7.6	7.0 - 8.1
Horiba ABX Pentra 400 / C400	14	2.77	0.06	2.2	2.8	2.2 - 3.3	14	7.33	0.21	2.9	7.4	6.8 - 7.9
All Chemistry Instruments	36	2.70	0.10	3.8	2.7	2.2 - 3.2	36	7.44	0.23	3.2	7.4	6.9 - 8.0
VITROS												
VITROS 250,350,400 500,700,750,950	13	2.72	0.04	1.4	2.7	2.2 - 3.3	13	7.57	0.09	1.3	7.6	7.0 - 8.1
All Chemistry Instruments	17	2.71	0.03	1.2	2.7	2.2 - 3.3	17	7.57	0.10	1.4	7.6	7.0 - 8.1
	Specimen CH-3						Specimen CH-4					
All Method	132	2.84	0.06	2.1	2.8	2.3 - 3.4	132	5.56	0.10	1.8	5.6	5.0 - 6.1
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	2.8	2.3 - 3.4	3	-	-	-	5.7	5.3 - 6.3
Abaxis Piccolo	2	-	-	-	3.3	2.3 - 3.4	2	-	-	-	6.3	5.3 - 6.3
All Chemistry Instruments	5	2.85	0.33	11.6	2.8	2.3 - 3.4	5	5.80	0.37	6.5	5.8	5.3 - 6.3
ISE Diluted												
Beckman AU systems	25	2.86	0.05	1.7	2.9	2.3 - 3.4	23	5.50	0.04	0.7	5.5	5.0 - 6.1
Roche cobas 6000 / c 501	8	2.93	0.05	1.6	2.9	2.4 - 3.5	8	5.66	0.07	1.3	5.7	5.1 - 6.2
Roche Integra	13	2.84	0.05	1.8	2.8	2.3 - 3.4	12	5.53	0.05	0.9	5.5	5.0 - 6.1
Siemens Dimension QuickLyte - Xpand/EXL	17	2.80	0.01	0.0	2.8	2.3 - 3.3	17	5.56	0.05	0.9	5.6	5.0 - 6.1
All Chemistry Instruments	78	2.84	0.06	2.1	2.8	2.3 - 3.4	74	5.54	0.07	1.2	5.5	5.0 - 6.1
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	17	2.83	0.07	2.4	2.8	2.3 - 3.4	17	5.61	0.09	1.7	5.6	5.1 - 6.2
Horiba ABX Pentra 400 / C400	14	2.89	0.05	1.9	2.9	2.3 - 3.4	15	5.46	0.12	2.2	5.5	4.9 - 6.0
All Chemistry Instruments	35	2.86	0.07	2.3	2.9	2.3 - 3.4	37	5.54	0.12	2.2	5.5	5.0 - 6.1
VITROS												
VITROS 250,350,400 500,700,750,950	13	2.83	0.05	1.7	2.8	2.3 - 3.4	13	5.65	0.10	1.7	5.6	5.1 - 6.2
All Chemistry Instruments	17	2.82	0.04	1.5	2.8	2.3 - 3.4	17	5.65	0.09	1.5	5.6	5.1 - 6.2

Potassium (mmol/L)**Specimen CH-5**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	133	3.97	0.07	1.7	4.0	3.4 - 4.5
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	3.8	3.5 - 4.6
Abaxis Piccolo	2	-	-	-	4.6	3.5 - 4.6
All Chemistry Instruments	5	4.08	0.38	9.3	4.0	3.5 - 4.6
ISE Diluted						
Beckman AU systems	25	3.94	0.05	1.3	3.9	3.4 - 4.5
Roche cobas 6000 / c 501	8	4.06	0.05	1.3	4.1	3.5 - 4.6
Roche Integra	11	4.00	0.01	0.0	4.0	3.5 - 4.5
Siemens Dimension QuickLyte - Xpand/EXL	17	3.95	0.05	1.3	4.0	3.4 - 4.5
All Chemistry Instruments	77	3.97	0.06	1.5	4.0	3.4 - 4.5
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	17	3.98	0.06	1.4	4.0	3.4 - 4.5
Horiba ABX Pentra 400 / C400	15	3.91	0.05	1.3	3.9	3.4 - 4.5
All Chemistry Instruments	36	3.95	0.06	1.5	4.0	3.4 - 4.5
VITROS						
VITROS 250,350,400 500,700,750,950	13	4.02	0.07	1.8	4.0	3.5 - 4.6
All Chemistry Instruments	17	4.02	0.07	1.8	4.0	3.5 - 4.6

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.

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	146	124.6	4.7	3.7	123	120 - 129	145	164.8	4.1	2.5	164	160 - 169
Abaxis Piccolo												
Abaxis Piccolo - waived	10	128.6	2.2	1.7	128	124 - 133	10	169.7	2.1	1.2	170	165 - 174
Abaxis Piccolo	5	130.0	2.3	1.8	130	126 - 134	5	169.8	0.5	0.3	170	165 - 174
All Chemistry Instruments	15	129.0	2.2	1.7	128	125 - 133	15	169.7	1.8	1.0	170	165 - 174
ISE Diluted												
Beckman AU systems	25	119.3	1.5	1.3	119	115 - 124	25	161.0	1.5	0.9	161	157 - 166
Roche cobas 6000 / c 501	8	121.6	1.4	1.2	122	117 - 126	8	163.6	1.7	1.0	164	159 - 168
Roche Integra	13	121.2	1.5	1.2	121	117 - 126	13	161.3	0.9	0.6	161	157 - 166
Siemens Dimension QuickLyte - Xpand/EXL	17	121.5	1.2	1.0	122	117 - 126	17	162.4	1.5	0.9	162	158 - 167
All Chemistry Instruments	77	120.8	1.7	1.4	121	116 - 125	77	161.9	1.7	1.1	162	157 - 166
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	18	127.4	2.3	1.8	128	123 - 132	17	166.7	1.8	1.1	167	162 - 171
Horiba ABX Pentra 400 / C400	14	128.9	1.5	1.2	129	124 - 133	14	166.1	2.7	1.6	166	162 - 171
All Chemistry Instruments	37	127.3	3.0	2.4	128	123 - 132	36	166.1	2.4	1.4	167	162 - 171
VITROS												
VITROS 250,350,400 500,700,750,950	13	131.6	1.5	1.1	132	127 - 136	12	171.4	1.8	1.1	171	167 - 176
All Chemistry Instruments	17	131.6	1.4	1.1	132	127 - 136	16	171.4	1.6	0.9	171	167 - 176
<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	136	123.4	2.3	1.8	124	119 - 128	134	147.8	2.4	1.6	147	143 - 152
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	127	122 - 131	3	-	-	-	154	149 - 158
Abaxis Piccolo	2	-	-	-	126	122 - 131	2	-	-	-	152	149 - 158
All Chemistry Instruments	5	126.5	1.3	1.0	127	122 - 131	5	153.3	1.0	0.6	154	149 - 158
ISE Diluted												
Beckman AU systems	25	123.3	1.4	1.2	123	119 - 128	24	146.8	0.9	0.6	147	142 - 151
Roche cobas 6000 / c 501	8	124.3	2.0	1.6	125	120 - 129	8	147.8	1.8	1.2	148	143 - 152
Roche Integra	13	123.7	0.8	0.6	124	119 - 128	12	146.2	0.8	0.6	146	142 - 151
Siemens Dimension QuickLyte - Xpand/EXL	17	125.6	1.1	0.8	126	121 - 130	17	147.4	1.2	0.8	148	143 - 152
All Chemistry Instruments	77	124.2	1.6	1.3	124	120 - 129	76	147.1	1.3	0.9	147	143 - 152
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	18	120.1	1.3	1.1	120	116 - 125	17	146.8	1.3	0.9	147	142 - 151
Horiba ABX Pentra 400 / C400	14	121.5	1.6	1.3	122	117 - 126	14	147.5	2.1	1.4	147	143 - 152
All Chemistry Instruments	37	121.1	1.9	1.6	121	117 - 126	36	147.1	1.7	1.2	147	143 - 152
VITROS												
VITROS 250,350,400 500,700,750,950	13	124.6	1.3	1.0	125	120 - 129	13	151.8	1.4	0.9	152	147 - 156
All Chemistry Instruments	17	124.5	1.2	0.9	124	120 - 129	17	151.7	1.3	0.9	152	147 - 156

Sodium (mmol/L)**Specimen CH-5**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	133	133.4	1.9	1.4	133	129 - 138
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	135	131 - 140
Abaxis Piccolo	2	-	-	-	136	131 - 140
All Chemistry Instruments	5	135.8	1.7	1.3	136	131 - 140
ISE Diluted						
Beckman AU systems	25	133.2	1.3	1.0	133	129 - 138
Roche cobas 6000 / c 501	8	133.9	1.6	1.2	134	129 - 138
Roche Integra	12	133.0	0.7	0.6	133	129 - 137
Siemens Dimension QuickLyte - Xpand/EXL	17	134.4	1.1	0.8	135	130 - 139
All Chemistry Instruments	77	133.6	1.3	1.0	134	129 - 138
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	18	130.7	1.4	1.0	131	126 - 135
Horiba ABX Pentra 400 / C400	14	131.5	2.0	1.5	132	127 - 136
All Chemistry Instruments	37	131.4	1.8	1.4	131	127 - 136
VITROS						
VITROS 250,350,400 500,700,750,950	13	136.0	1.4	1.0	135	132 - 140
All Chemistry Instruments	17	135.7	1.4	1.0	135	131 - 140

TIBC – Calculated (µg/dL)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	575.6	37.2	6.5	580	460 - 691	12	354.1	82.2	23.2	375	189 - 519
Other Calculation Specified												
All Chemistry Instruments	7	572.7	38.0	6.6	558	458 - 688	7	385.4	70.1	18.2	415	245 - 526
<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	96.9	25.4	26.2	106	46 - 148	12	244.6	52.9	21.6	264	138 - 351
Other Calculation Specified												
All Chemistry Instruments	7	103.4	23.2	22.4	111	57 - 150	7	265.9	45.3	17.0	282	175 - 357
<u>Method/Instrument</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	152.9	33.8	22.1	160	85 - 221						
Other Calculation Specified												
All Chemistry Instruments	7	165.1	29.8	18.1	176	105 - 225						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	558.8	41.7	7.5	560	447 - 671	15	314.2	132.5	42.2	301	49 - 580
Siemens Healthcare												
Siemens Dimension	7	564.4	9.5	1.7	560	451 - 678	7	293.6	8.7	3.0	290	234 - 353
VITROS												
All Chemistry Instruments	5	600.3	151.8	25.3	540	296 - 904	5	649.7	40.2	6.2	645	519 - 780
<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	100.5	39.2	39.0	103	22 - 179	15	216.6	84.9	39.2	195	46 - 387
Siemens Healthcare												
Siemens Dimension	7	69.6	8.3	12.0	68	52 - 87	7	195.1	6.4	3.3	194	156 - 235
VITROS												
All Chemistry Instruments	5	119.0	13.9	11.7	126	91 - 147	5	420.3	46.1	11.0	438	328 - 513
<u>Method/Instrument</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	15	116.0	48.3	41.7	113	19 - 213						
Siemens Healthcare												
Siemens Dimension	7	109.0	8.4	7.7	110	87 - 131						
VITROS												
All Chemistry Instruments	5	228.7	18.0	7.9	230	182 - 275						

UIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	402.0	31.9	7.9	410	321 - 483	22	167.0	16.3	9.8	170	133 - 201
Beckman AU												
Beckman AU systems	13	424.0	18.8	4.4	428	339 - 509	13	175.1	12.5	7.1	174	140 - 211
<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	73.8	8.4	11.3	75	57 - 91	22	121.1	12.8	10.6	122	95 - 147
Beckman AU												
Beckman AU systems	13	78.6	5.0	6.3	79	62 - 95	13	128.3	8.4	6.6	127	102 - 154
<u>Method/Instrument</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	22	85.5	11.4	13.3	87	62 - 109						
Beckman AU												
Beckman AU systems	13	92.8	7.6	8.2	90	74 - 112						

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	143	16.4	3.4	20.9	16	13 - 20	141	248.7	14.9	6.0	246	198 - 299
All Alfa Wassermann Reagents	19	13.3	2.5	18.6	14	10 - 16	20	242.9	5.3	2.2	243	194 - 292
All Horiba Pentra Reagents	16	17.7	2.3	12.8	17	14 - 22	16	266.2	8.6	3.2	267	212 - 320
All Roche Reagents	22	14.3	1.4	9.7	14	11 - 18	22	252.2	6.7	2.6	253	201 - 303
All Siemens Healthcare	5	19.8	3.0	15.3	18	15 - 24	5	278.4	14.5	5.2	273	222 - 335
Abaxis Piccolo												
Abaxis Piccolo - waived	10	21.1	2.1	10.1	21	16 - 26	10	231.1	4.4	1.9	229	184 - 278
All Chemistry Instruments	14	21.1	2.1	10.1	21	16 - 26	14	231.1	4.2	1.8	230	184 - 278
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	13.3	2.5	18.6	14	10 - 16	20	242.9	5.3	2.2	243	194 - 292
Beckman AU												
Beckman AU systems	26	15.6	0.9	5.5	16	12 - 19	26	234.8	6.7	2.8	234	187 - 282
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	17.7	2.3	12.8	17	14 - 22	16	266.2	8.6	3.2	267	212 - 320
Roche cobas c 501												
Roche cobas 6000 / c 501	8	15.3	0.9	5.8	15	12 - 19	8	258.6	3.6	1.4	259	206 - 311
Roche Integra												
Roche Integra	13	13.5	1.0	7.2	13	10 - 17	13	247.8	4.2	1.7	246	198 - 298
Siemens Healthcare ALTi												
Siemens Dimension	16	20.8	2.5	12.1	21	16 - 25	16	271.4	4.1	1.5	270	217 - 326
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	12	13.8	1.5	10.6	14	11 - 17	12	245.0	6.8	2.8	245	196 - 294
All Chemistry Instruments	15	13.9	1.3	9.4	14	11 - 17	15	244.5	7.2	2.9	244	195 - 294

ALT (SGPT) (IU/L)

<u><i>Instrument/Reagent</i></u>	Specimen CH-3						Specimen CH-4					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	131	18.6	2.3	12.6	18	14 - 23	132	158.5	10.0	6.3	157	126 - 191
All Alfa Wassermann Reagents	19	19.5	2.7	13.6	20	15 - 24	20	155.7	5.1	3.3	156	124 - 187
All Horiba Pentra Reagents	16	18.7	1.2	6.4	19	14 - 23	16	169.9	5.1	3.0	171	135 - 204
All Roche Reagents	22	18.0	0.9	5.0	18	14 - 22	22	160.0	3.3	2.1	160	128 - 192
All Siemens Healthcare	5	21.0	1.2	5.8	21	16 - 26	5	176.4	9.4	5.4	172	141 - 212
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	23	14 - 23	3	-	-	-	148	126 - 191
All Chemistry Instruments	4	-	-	-	23	17 - 27	4	-	-	-	148	118 - 178
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	19.5	2.7	13.6	20	15 - 24	20	155.7	5.1	3.3	156	124 - 187
Beckman AU												
Beckman AU systems	26	17.2	0.7	4.4	17	13 - 21	26	147.8	4.3	2.9	148	118 - 178
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	18.7	1.2	6.4	19	14 - 23	16	169.9	5.1	3.0	171	135 - 204
Roche cobas c 501												
Roche cobas 6000 / c 501	8	18.9	0.6	3.4	19	15 - 23	8	163.3	2.0	1.2	163	130 - 196
Roche Integra												
Roche Integra	13	17.6	0.7	3.7	18	14 - 22	13	158.0	2.3	1.5	157	126 - 190
Siemens Healthcare ALTi												
Siemens Dimension	16	22.1	2.0	9.0	22	17 - 27	16	172.8	3.6	2.1	173	138 - 208
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	12	15.8	1.5	9.3	16	12 - 19	12	152.1	3.6	2.4	152	121 - 183
All Chemistry Instruments	15	15.8	1.3	8.4	16	12 - 19	15	151.9	4.0	2.6	152	121 - 183

ALT (SGPT) (IU/L)**Specimen CH-5**

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	133	77.5	5.5	7.1	77	61 - 93
All Alfa Wassermann Reagents	20	76.5	4.8	6.2	77	61 - 92
All Horiba Pentra Reagents	16	82.6	2.6	3.2	83	66 - 100
All Roche Reagents	21	78.3	1.6	2.0	78	62 - 94
All Siemens Healthcare	5	86.6	3.8	4.4	86	69 - 104
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	75	61 - 93
All Chemistry Instruments	4	-	-	-	75	60 - 90
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	76.5	4.8	6.2	77	61 - 92
Beckman AU						
Beckman AU systems	26	72.0	2.4	3.3	72	57 - 87
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	16	82.6	2.6	3.2	83	66 - 100
Roche cobas c 501						
Roche cobas 6000 / c 501	8	79.0	1.5	1.9	79	63 - 95
Roche Integra						
Roche Integra	13	77.9	1.6	2.0	78	62 - 94
Siemens Healthcare ALTi						
Siemens Dimension	16	85.0	2.0	2.4	86	68 - 102
VITROS ALTV						
VITROS 250,350,400 500,700,750,950	12	72.7	1.6	2.1	72	58 - 88
All Chemistry Instruments	15	72.6	1.4	1.9	72	58 - 88

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	146	104.0	11.0	10.6	107	72 - 136	146	303.1	63.8	21.0	322	212 - 395
All Alfa Wassermann Reagents	19	95.1	5.0	5.3	95	66 - 124	19	310.8	19.8	6.4	316	217 - 405
All Horiba Pentra Reagents	16	111.3	5.1	4.5	111	77 - 145	16	350.9	16.1	4.6	349	245 - 457
All Roche Reagents	21	111.7	2.7	2.4	112	78 - 146	22	354.1	11.4	3.2	356	247 - 461
Abaxis Piccolo												
Abaxis Piccolo - waived	10	94.4	4.6	4.9	93	66 - 123	10	238.3	9.9	4.2	237	166 - 310
All Chemistry Instruments	14	95.0	4.3	4.6	93	66 - 124	14	238.7	8.5	3.6	237	167 - 311
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	95.1	5.0	5.3	95	66 - 124	19	310.8	19.8	6.4	316	217 - 405
Beckman AU												
Beckman AU systems	25	91.9	7.2	7.9	90	64 - 120	25	302.8	23.2	7.6	294	211 - 394
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	111.3	5.1	4.5	111	77 - 145	16	350.9	16.1	4.6	349	245 - 457
Roche Integra												
Roche Integra	13	111.8	3.2	2.8	112	78 - 146	13	355.8	9.5	2.7	357	249 - 463
Siemens Healthcare ALPi												
Siemens Dimension	14	110.6	3.3	3.0	111	77 - 144	14	359.9	10.6	2.9	357	251 - 468
VITROS												
VITROS 250,350,400 500,700,750,950	13	116.2	4.8	4.1	115	81 - 151	13	164.2	9.4	5.7	165	114 - 214
All Chemistry Instruments	17	117.2	5.6	4.8	116	82 - 153	17	166.4	10.0	6.0	166	116 - 217

Alkaline Phosphatase (IU/L)

<u><i>Instrument/Reagent</i></u>	Specimen CH-3						Specimen CH-4					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	136	38.6	3.9	10.2	39	27 - 51	136	212.4	31.1	14.7	219	148 - 277
All Alfa Wassermann Reagents	19	37.3	2.3	6.1	37	26 - 49	19	211.2	13.4	6.3	213	147 - 275
All Horiba Pentra Reagents	16	41.7	3.3	7.8	43	29 - 55	16	236.4	12.8	5.4	235	165 - 308
All Roche Reagents	22	40.1	1.5	3.8	40	28 - 53	22	237.2	8.7	3.7	237	166 - 309
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	42	27 - 51	3	-	-	-	176	148 - 277
All Chemistry Instruments	4	-	-	-	42	29 - 55	4	-	-	-	173	121 - 226
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	37.3	2.3	6.1	37	26 - 49	19	211.2	13.4	6.3	213	147 - 275
Beckman AU												
Beckman AU systems	25	33.1	2.8	8.5	32	23 - 44	25	200.1	15.0	7.5	196	140 - 261
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	41.7	3.3	7.8	43	29 - 55	16	236.4	12.8	5.4	235	165 - 308
Roche Integra												
Roche Integra	13	40.4	1.4	3.4	40	28 - 53	13	238.7	6.8	2.9	240	167 - 311
Siemens Healthcare ALPi												
Siemens Dimension	14	40.4	2.2	5.5	41	28 - 53	14	241.6	6.5	2.7	241	169 - 315
VITROS												
VITROS 250,350,400 500,700,750,950	13	41.2	1.8	4.3	41	28 - 54	13	152.4	7.0	4.6	151	106 - 199
All Chemistry Instruments	17	41.1	2.0	4.9	41	28 - 54	17	153.1	6.9	4.5	153	107 - 200

Alkaline Phosphatase (IU/L)

Specimen CH-5

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	136	116.0	11.7	10.1	118	81 - 151
All Alfa Wassermann Reagents	19	113.6	7.8	6.8	116	79 - 148
All Horiba Pentra Reagents	16	126.4	5.2	4.1	127	88 - 165
All Roche Reagents	21	124.5	3.7	2.9	125	87 - 162
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	103	81 - 151
All Chemistry Instruments	4	-	-	-	103	71 - 134
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	19	113.6	7.8	6.8	116	79 - 148
Beckman AU						
Beckman AU systems	25	105.4	7.8	7.4	104	73 - 137
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	16	126.4	5.2	4.1	127	88 - 165
Roche Integra						
Roche Integra	13	125.8	3.5	2.8	126	88 - 164
Siemens Healthcare ALPi						
Siemens Dimension	14	126.8	4.1	3.3	126	88 - 165
VITROS						
VITROS 250,350,400 500,700,750,950	13	103.6	3.5	3.4	104	72 - 135
All Chemistry Instruments	17	103.7	4.0	3.9	104	72 - 135

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	126	37.3	4.8	13.0	36	29 - 45	125	281.2	37.5	13.3	278	224 - 338
All Alfa Wassermann Reagents	20	30.1	2.1	7.0	30	24 - 37	20	257.6	7.3	2.8	258	206 - 310
All Horiba Pentra Reagents	16	41.8	2.1	5.0	42	33 - 51	16	300.1	13.1	4.4	299	240 - 361
All Roche Reagents	22	35.9	1.7	4.8	36	28 - 44	22	281.9	10.2	3.6	283	225 - 339
Abaxis Piccolo												
Abaxis Piccolo - waived	10	42.5	1.8	4.3	42	34 - 51	10	267.9	7.1	2.7	268	214 - 322
All Chemistry Instruments	14	42.9	1.9	4.5	42	34 - 52	14	268.2	7.0	2.6	268	214 - 322
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	30.1	2.1	7.0	30	24 - 37	20	257.6	7.3	2.8	258	206 - 310
Beckman AU												
Beckman AU systems	25	34.2	1.1	3.2	34	27 - 42	25	244.5	8.4	3.4	244	195 - 294
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	41.8	2.1	5.0	42	33 - 51	16	300.1	13.1	4.4	299	240 - 361
Roche Integra												
Roche Integra	13	34.9	1.5	4.3	35	27 - 42	13	277.0	8.9	3.2	277	221 - 333
Siemens Healthcare												
Siemens Dimension	21	34.2	3.2	9.4	34	27 - 42	21	297.1	8.6	2.9	296	237 - 357
VITROS												
VITROS 250,350,400 500,700,750,950	13	41.1	2.1	5.2	41	32 - 50	13	364.9	17.5	4.8	362	291 - 438
All Chemistry Instruments	17	41.6	2.5	6.1	41	33 - 50	17	365.4	16.4	4.5	362	292 - 439

AST (SGOT) (IU/L)

<i>Instrument/Reagent</i>	Specimen CH-3						Specimen CH-4					
	<i>Labs</i>	<i>Mean</i>	<i>SD</i>	<i>CV</i>	<i>Median</i>	<i>Range</i>	<i>Labs</i>	<i>Mean</i>	<i>SD</i>	<i>CV</i>	<i>Median</i>	<i>Range</i>
All Method	115	105.7	8.4	7.9	106	84 - 127	116	212.9	24.7	11.6	214	170 - 256
All Alfa Wassermann Reagents	20	102.6	3.5	3.4	103	82 - 124	20	198.5	7.2	3.6	199	158 - 239
All Horiba Pentra Reagents	16	116.4	6.0	5.1	116	93 - 140	16	230.0	9.7	4.2	230	184 - 276
All Roche Reagents	22	109.5	3.9	3.6	110	87 - 132	22	215.6	7.0	3.2	217	172 - 259
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	103	84 - 127	3	-	-	-	206	170 - 256
All Chemistry Instruments	4	-	-	-	104	82 - 124	4	-	-	-	206	164 - 246
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	102.6	3.5	3.4	103	82 - 124	20	198.5	7.2	3.6	199	158 - 239
Beckman AU												
Beckman AU systems	25	94.7	3.5	3.7	94	75 - 114	25	186.3	6.2	3.3	186	149 - 224
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	116.4	6.0	5.1	116	93 - 140	16	230.0	9.7	4.2	230	184 - 276
Roche Integra												
Roche Integra	13	108.4	4.1	3.8	109	86 - 131	13	213.0	6.8	3.2	212	170 - 256
Siemens Healthcare												
Siemens Dimension	21	108.4	3.6	3.3	107	86 - 131	21	222.8	7.0	3.1	222	178 - 268
VITROS												
VITROS 250,350,400 500,700,750,950	12	107.4	4.7	4.4	106	85 - 129	12	257.4	11.5	4.5	254	205 - 309
All Chemistry Instruments	16	108.4	5.3	4.9	107	86 - 131	16	256.8	11.7	4.6	257	205 - 309

AST (SGOT) (IU/L)**Specimen CH-5**

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	115	148.8	13.0	8.8	152	119 - 179
All Alfa Wassermann Reagents	20	141.9	5.2	3.6	143	113 - 171
All Horiba Pentra Reagents	16	162.9	5.6	3.4	163	130 - 196
All Roche Reagents	22	152.8	4.8	3.1	155	122 - 184
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	143	119 - 179
All Chemistry Instruments	4	-	-	-	144	114 - 173
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	141.9	5.2	3.6	143	113 - 171
Beckman AU						
Beckman AU systems	25	131.4	4.1	3.1	133	105 - 158
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	16	162.9	5.6	3.4	163	130 - 196
Roche Integra						
Roche Integra	13	151.5	4.8	3.2	151	121 - 182
Siemens Healthcare						
Siemens Dimension	21	156.0	4.9	3.1	155	124 - 188
VITROS						
VITROS 250,350,400 500,700,750,950	12	163.3	8.0	4.9	163	130 - 196
All Chemistry Instruments	16	163.5	7.2	4.4	163	130 - 197

Creatine Kinase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	53	140.7	12.2	8.7	143	98 - 183	52	326.1	33.6	10.3	334	228 - 424
All Alfa Wassermann Reagents	6	136.3	4.2	3.1	136	95 - 178	6	314.3	11.3	3.6	312	220 - 409
All Roche Reagents	9	143.9	5.1	3.5	143	100 - 188	9	339.8	13.9	4.1	342	237 - 442
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	6	136.3	4.2	3.1	136	95 - 178	6	314.3	11.3	3.6	312	220 - 409
Beckman AU												
Beckman AU systems	13	128.0	9.3	7.2	128	89 - 167	13	318.4	26.1	8.2	320	222 - 414
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	5	150.8	4.7	3.1	153	105 - 197	5	344.0	17.4	5.1	347	240 - 448
Roche Integra												
Roche Integra	5	141.2	4.1	2.9	142	98 - 184	5	333.4	14.9	4.5	333	233 - 434
Siemens Healthcare CKI												
Siemens Dimension	11	143.5	2.9	2.1	144	100 - 187	11	345.7	6.5	1.9	348	242 - 450
	Specimen CH-3						Specimen CH-4					
All Method	53	19.8	3.5	17.6	19	13 - 26	52	207.7	17.0	8.2	211	145 - 271
All Alfa Wassermann Reagents	6	26.3	2.7	10.1	27	18 - 35	6	201.5	5.2	2.6	201	141 - 262
All Roche Reagents	9	21.0	1.7	8.2	21	14 - 28	9	216.0	8.7	4.0	214	151 - 281
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	6	26.3	2.7	10.1	27	18 - 35	6	201.5	5.2	2.6	201	141 - 262
Beckman AU												
Beckman AU systems	13	17.4	1.8	10.1	18	12 - 23	13	198.5	16.9	8.5	199	138 - 258
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	5	21.0	1.2	5.8	21	14 - 28	5	218.6	9.3	4.3	223	153 - 285
Roche Integra												
Roche Integra	5	21.2	1.5	7.0	21	14 - 28	5	213.6	9.7	4.5	211	149 - 278
Siemens Healthcare CKI												
Siemens Dimension	11	17.6	2.5	14.0	18	12 - 23	11	218.1	4.5	2.1	219	152 - 284

Creatine Kinase (IU/L) cont'd

			Specimen CH-5			
All Method	51	100.5	5.8	5.8	102	70 - 131
All Alfa Wassermann Reagents	6	100.5	2.9	2.9	102	70 - 131
All Roche Reagents	9	103.8	3.2	3.0	103	72 - 135
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	6	100.5	2.9	2.9	102	70 - 131
Beckman AU						
Beckman AU systems	13	93.2	8.3	8.9	92	65 - 122
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	5	103.2	6.6	6.4	104	72 - 135
Roche Integra						
Roche Integra	5	104.0	3.9	3.8	103	72 - 136
Siemens Healthcare CKI						
Siemens Dimension	11	103.1	2.6	2.5	103	72 - 135

GGT (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	27	36.0	7.4	20.5	33	21 - 51	27	202.0	38.7	19.2	190	124 - 280
All Roche Reagents	11	33.0	1.7	5.2	32	28 - 38	11	189.0	7.6	4.0	188	160 - 218
Roche Integra												
Roche Integra	7	32.9	1.2	3.7	32	27 - 38	7	189.3	2.5	1.3	189	160 - 218
	Specimen CH-3						Specimen CH-4					
All Method	26	18.5	6.0	32.3	15	6 - 31	26	131.4	28.2	21.4	122	75 - 188
All Roche Reagents	11	15.1	1.1	7.5	15	12 - 18	11	121.3	5.8	4.8	121	103 - 140
Roche Integra												
Roche Integra	7	15.1	1.1	7.1	15	12 - 18	7	121.4	2.2	1.8	121	103 - 140
	Specimen CH-5											
All Method	26	66.7	15.3	23.0	61	36 - 98						
All Roche Reagents	11	60.3	2.6	4.4	59	51 - 70						
Roche Integra												
Roche Integra	7	60.7	1.9	3.1	60	51 - 70						

Amylase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	36	88.5	13.4	15.1	95	61 - 116	36	171.2	29.2	17.0	177	119 - 223
All Roche Reagents	7	97.7	1.9	1.9	98	68 - 128	7	178.7	4.1	2.3	180	125 - 233
Beckman AU												
Beckman AU systems	8	67.1	4.1	6.1	68	46 - 88	8	146.3	8.2	5.6	147	102 - 191
Siemens Healthcare												
Siemens Dimension	5	85.8	1.5	1.7	86	60 - 112	5	197.2	2.6	1.3	196	138 - 257
VITROS												
VITROS 250,350,400 500,700,750,950	5	102.6	4.5	4.4	103	71 - 134	5	126.0	3.4	2.7	125	88 - 164
	Specimen CH-3						Specimen CH-4					
All Method	35	18.0	5.7	31.5	17	12 - 24	35	109.2	18.4	16.9	113	76 - 142
All Roche Reagents	7	17.3	0.8	4.4	17	12 - 23	7	112.7	2.1	1.8	113	78 - 147
Beckman AU												
Beckman AU systems	8	11.9	1.0	8.3	12	8 - 16	8	93.9	5.5	5.8	94	65 - 123
Siemens Healthcare												
Siemens Dimension	5	16.2	0.8	5.2	16	11 - 22	5	125.2	1.8	1.4	125	87 - 163
VITROS												
VITROS 250,350,400 500,700,750,950	5	30.0	0.1	0.0	30	21 - 39	5	82.0	7.0	8.6	84	57 - 107
	Specimen CH-5											
All Method	35	55.2	8.7	15.7	57	38 - 72						
All Roche Reagents	7	56.9	1.5	2.6	57	39 - 74						
Beckman AU												
Beckman AU systems	8	46.8	2.4	5.1	47	32 - 61						
Siemens Healthcare												
Siemens Dimension	5	62.2	0.8	1.3	62	43 - 81						
VITROS												
VITROS 250,350,400 500,700,750,950	5	44.4	3.8	8.5	46	31 - 58						

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	37	180.2	21.1	11.7	188	144 - 217	37	690.8	79.0	11.4	729	552 - 830
All Horiba Pentra Reagents	6	195.8	12.1	6.2	197	156 - 235	6	716.5	43.1	6.0	714	573 - 860
All Roche Reagents	13	190.4	5.8	3.1	192	152 - 229	13	738.5	16.7	2.3	734	590 - 887
Beckman AU												
Beckman AU systems	8	159.9	5.9	3.7	160	127 - 192	8	625.5	20.3	3.2	626	500 - 751
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	6	195.8	12.1	6.2	197	156 - 235	6	716.5	43.1	6.0	714	573 - 860
Roche Integra												
Roche Integra	10	190.0	6.6	3.5	192	152 - 228	10	732.9	14.6	2.0	734	586 - 880
<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	36	115.3	13.1	11.3	120	92 - 139	37	473.6	56.3	11.9	493	378 - 569
All Horiba Pentra Reagents	6	124.8	8.5	6.8	122	99 - 150	6	489.3	21.3	4.4	489	391 - 588
All Roche Reagents	13	124.3	3.3	2.6	124	99 - 150	13	505.4	8.4	1.7	506	404 - 607
Beckman AU												
Beckman AU systems	8	100.9	3.2	3.2	100	80 - 122	8	426.1	13.9	3.3	431	340 - 512
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	6	124.8	8.5	6.8	122	99 - 150	6	489.3	21.3	4.4	489	391 - 588
Roche Integra												
Roche Integra	10	124.9	3.2	2.6	125	99 - 150	10	504.0	8.8	1.8	506	403 - 605
<u>Instrument/Reagent</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	37	270.4	32.6	12.1	282	216 - 325						
All Horiba Pentra Reagents	6	279.2	8.9	3.2	283	223 - 336						
All Roche Reagents	13	289.2	6.3	2.2	289	231 - 347						
Beckman AU												
Beckman AU systems	8	240.1	4.1	1.7	241	192 - 289						
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	6	279.2	8.9	3.2	283	223 - 336						
Roche Integra												
Roche Integra	10	289.4	7.1	2.4	290	231 - 348						

Lipase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	53.5	2.9	5.3	55	37 - 70	17	56.2	5.9	10.5	60	39 - 74
All Roche Reagents	6	55.2	1.6	2.9	55	38 - 72	6	52.5	2.3	4.3	53	36 - 69
Beckman AU												
Beckman AU systems	6	51.3	2.7	5.2	51	35 - 67	6	61.8	3.1	4.9	62	43 - 81
	Specimen CH-3						Specimen CH-4					
All Method	17	8.9	1.7	18.7	9	6 - 12	17	39.2	5.3	13.6	41	27 - 52
All Roche Reagents	6	8.5	0.5	6.4	9	5 - 12	6	35.7	1.6	4.6	36	24 - 47
Beckman AU												
Beckman AU systems	6	8.3	0.5	6.2	8	5 - 11	6	43.7	5.9	13.5	43	30 - 57
	Specimen CH-5											
All Method	17	22.2	3.0	13.6	24	15 - 29						
All Roche Reagents	6	19.8	0.8	3.8	20	13 - 26						
Beckman AU												
Beckman AU systems	6	23.7	3.1	13.3	24	16 - 31						

Alpha-fetoprotein (AFP) (ng/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	5.34	0.30	5.7	5.4	4.4 - 6.3	5	323.98	16.52	5.1	320.4	274.4 - 373.6
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.00	0.58	58.3	0.8	0.0 - 2.8	5	200.40	8.28	4.1	198.4	175.5 - 225.3
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	86.86	3.96	4.6	88.6	74.9 - 98.8						

Cortisol (µg/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	11.62	1.18	10.2	11.2	8.7 - 14.6	13	29.00	2.35	8.1	29.1	21.7 - 36.3
Beckman ACCESS / 2 / Dxl	7	10.94	0.72	6.6	11.1	8.2 - 13.7	7	30.19	2.07	6.9	29.1	22.6 - 37.8
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	4.47	0.51	11.4	4.6	3.3 - 5.6	13	19.81	1.70	8.6	19.9	14.8 - 24.8
Beckman ACCESS / 2 / Dxl	7	4.74	0.23	4.8	4.6	3.5 - 6.0	7	20.91	1.05	5.0	20.6	15.6 - 26.2
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	13	11.32	1.07	9.4	11.7	8.4 - 14.2						
Beckman ACCESS / 2 / Dxl	7	12.01	0.48	4.0	12.0	9.0 - 15.1						

T₃ Uptake (percent)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	26.15	9.65	36.9	28.8	0.0 - 55.1	10	38.05	12.07	31.7	40.1	1.8 - 74.3
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	46.80	16.17	34.6	51.2	0.0 - 95.4	10	40.76	13.45	33.0	42.5	0.3 - 81.2
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	43.48	14.58	33.5	46.2	0.0 - 87.3						

Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	1.14	0.39	34.2	1.2	0.0 - 2.4	18	2.10	0.47	22.6	2.4	0.6 - 3.6
All TOSOH Instruments	6	1.13	0.21	18.2	1.1	0.5 - 1.8	6	7.40	0.44	6.0	7.3	6.0 - 8.8
Beckman ACCESS / 2 / Dxl	10	1.47	0.12	7.9	1.5	1.1 - 1.9	10	2.43	0.13	5.5	2.4	2.0 - 2.9
TOSOH ST AIA PACK	5	1.16	0.22	18.9	1.1	0.5 - 1.9	5	7.44	0.48	6.5	7.3	5.9 - 8.9
Specimen CH-3												
All Method	18	0.94	0.26	27.5	1.0	0.1 - 1.8	18	1.63	0.29	17.7	1.8	0.7 - 2.6
All TOSOH Instruments	6	4.00	0.18	4.5	4.0	3.4 - 4.6	6	6.38	0.33	5.2	6.4	5.3 - 7.4
Beckman ACCESS / 2 / Dxl	10	1.01	0.09	8.7	1.0	0.7 - 1.3	10	1.76	0.13	7.7	1.7	1.3 - 2.2
TOSOH ST AIA PACK	5	4.02	0.19	4.8	4.0	3.4 - 4.6	5	6.48	0.26	4.0	6.4	5.7 - 7.3
Specimen CH-5												
All Method	18	1.28	0.24	18.4	1.3	0.5 - 2.0						
All TOSOH Instruments	6	5.08	0.22	4.4	5.1	4.4 - 5.8						
Beckman ACCESS / 2 / Dxl	10	1.31	0.09	6.7	1.3	1.0 - 1.6						
TOSOH ST AIA PACK	5	5.08	0.25	4.9	5.1	4.3 - 5.9						

Free T₃ (pg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	29	2.30	0.27	11.7	2.3	1.4 - 3.2	29	5.51	0.85	15.5	5.2	2.9 - 8.1
All TOSOH Instruments	5	2.62	0.68	25.8	2.6	0.5 - 4.7	5	11.18	0.83	7.4	11.3	8.6 - 13.7
Beckman ACCESS / 2 / Dxl	17	2.42	0.21	8.8	2.3	1.7 - 3.1	17	5.07	0.25	4.9	5.1	4.3 - 5.9
Specimen CH-3												
All Method	29	3.23	0.61	18.9	3.4	1.4 - 5.1	29	4.95	0.67	13.6	4.7	2.9 - 7.0
All TOSOH Instruments	5	4.36	0.57	13.0	4.2	2.6 - 6.1	5	9.06	0.62	6.8	8.9	7.2 - 11.0
Beckman ACCESS / 2 / Dxl	17	3.06	0.31	10.1	3.0	2.1 - 4.0	17	4.58	0.19	4.2	4.6	4.0 - 5.2
Specimen CH-5												
All Method	29	4.27	0.60	14.0	4.1	2.4 - 6.1						
All TOSOH Instruments	5	7.12	0.44	6.2	7.0	5.8 - 8.5						
Beckman ACCESS / 2 / Dxl	16	3.94	0.17	4.2	4.0	3.4 - 4.5						

Thyroxine (µg/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	10.41	1.12	10.8	9.7	8.3 - 12.5	15	13.23	1.50	11.3	13.0	10.5 - 15.9
All TOSOH Instruments	7	10.27	1.25	12.1	9.7	8.2 - 12.4	7	13.83	1.79	13.0	13.1	11.0 - 16.6
Beckman ACCESS / 2 / Dxl	7	8.56	0.56	6.5	8.5	6.8 - 10.3	7	12.91	0.83	6.4	13.5	10.3 - 15.5
TOSOH ST AIA PACK	6	10.45	1.26	12.1	10.1	8.3 - 12.6	6	14.08	1.82	12.9	13.7	11.2 - 16.9
	Specimen CH-3						Specimen CH-4					
All Method	14	2.39	0.32	13.4	2.4	1.3 - 3.4	14	8.90	0.72	8.1	8.9	7.1 - 10.7
All TOSOH Instruments	7	2.74	0.69	25.2	2.5	1.7 - 3.8	7	10.04	2.00	19.9	9.3	8.0 - 12.1
Beckman ACCESS / 2 / Dxl	7	2.33	0.22	9.5	2.3	1.3 - 3.4	7	9.49	0.78	8.2	9.7	7.5 - 11.4
TOSOH ST AIA PACK	6	2.80	0.74	26.4	2.6	1.8 - 3.8	6	10.23	2.12	20.7	9.5	8.1 - 12.3
	Specimen CH-5											
All Method	14	5.23	0.57	10.8	5.5	4.1 - 6.3						
All TOSOH Instruments	7	6.07	1.24	20.5	5.6	4.8 - 7.3						
Beckman ACCESS / 2 / Dxl	7	6.09	0.49	8.1	6.2	4.8 - 7.4						
TOSOH ST AIA PACK	6	6.22	1.30	20.9	5.7	4.9 - 7.5						

Free Thyroxine (ng/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	102	1.24	0.24	19.3	1.2	0.5 - 2.0	102	2.90	0.63	21.6	2.9	1.0 - 4.8
All TOSOH Instruments	19	1.45	0.15	10.1	1.4	1.0 - 1.9	19	3.76	0.34	8.9	3.8	2.7 - 4.8
Beckman ACCESS / 2 / Dxl	40	1.01	0.08	7.8	1.0	0.7 - 1.3	40	2.28	0.12	5.3	2.3	1.9 - 2.7
Siemens Dimension	14	1.20	0.12	9.8	1.2	0.8 - 1.6	14	3.11	0.13	4.1	3.1	2.7 - 3.6
TOSOH ST AIA PACK	14	1.47	0.17	11.4	1.5	0.9 - 2.0	14	3.80	0.38	10.0	3.9	2.6 - 5.0
	Specimen CH-3						Specimen CH-4					
All Method	99	0.97	0.19	19.4	0.9	0.4 - 1.6	100	2.35	0.50	21.4	2.2	0.8 - 3.9
All TOSOH Instruments	18	1.19	0.17	14.1	1.2	0.6 - 1.7	19	3.12	0.29	9.3	3.1	2.2 - 4.0
Beckman ACCESS / 2 / Dxl	40	0.85	0.07	8.0	0.9	0.6 - 1.1	40	1.89	0.10	5.2	1.9	1.5 - 2.2
Siemens Dimension	14	0.97	0.10	10.2	1.0	0.6 - 1.3	14	2.52	0.13	5.2	2.6	2.1 - 3.0
TOSOH ST AIA PACK	14	1.21	0.19	15.4	1.2	0.6 - 1.8	14	3.15	0.33	10.3	3.1	2.1 - 4.2
	Specimen CH-5											
All Method	100	1.69	0.35	20.6	1.5	0.6 - 2.8						
All TOSOH Instruments	19	2.23	0.22	9.8	2.2	1.5 - 2.9						
Beckman ACCESS / 2 / Dxl	40	1.41	0.09	6.2	1.4	1.1 - 1.7						
Siemens Dimension	14	1.79	0.11	6.2	1.8	1.4 - 2.2						
TOSOH ST AIA PACK	14	2.25	0.24	10.6	2.3	1.5 - 3.0						

TSH (μU/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	119	3.03	0.34	11.1	3.1	2.0 - 4.1	121	8.98	1.24	13.8	9.2	5.2 - 12.8
All Abbott Instruments	9	2.68	0.16	5.8	2.7	2.2 - 3.2	9	8.31	0.57	6.9	8.4	6.5 - 10.1
All Roche Instruments	10	3.11	0.12	3.8	3.1	2.7 - 3.5	10	8.67	0.32	3.6	8.7	7.7 - 9.7
All TOSOH Instruments	24	3.32	0.25	7.6	3.3	2.5 - 4.1	25	9.94	0.68	6.9	10.0	7.8 - 12.0
Abbott Architect	9	2.68	0.16	5.8	2.7	2.2 - 3.2	9	8.31	0.57	6.9	8.4	6.5 - 10.1
Beckman ACCESS / 2 / Dxl	44	3.10	0.31	10.1	3.2	2.1 - 4.1	44	9.12	1.32	14.5	9.7	5.1 - 13.1
Roche cobas e 411	5	3.10	0.16	5.1	3.1	2.6 - 3.6	5	8.60	0.38	4.4	8.4	7.4 - 9.8
Roche cobas e 601/ e 602	5	3.12	0.08	2.7	3.1	2.8 - 3.4	5	8.74	0.26	3.0	8.7	7.9 - 9.6
Siemens Dimension	18	2.74	0.19	6.9	2.8	2.1 - 3.4	18	7.56	0.92	12.2	7.4	4.7 - 10.4
TOSOH AIA PACK	8	3.39	0.31	9.1	3.4	2.4 - 4.4	8	10.06	0.68	6.8	10.0	8.0 - 12.2
TOSOH ST AIA PACK	17	3.22	0.34	10.6	3.3	2.1 - 4.3	17	9.88	0.69	7.0	10.0	7.7 - 12.0

<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	118	0.35	0.06	16.6	0.3	0.1 - 0.6	121	5.92	0.83	14.0	6.0	3.4 - 8.5
All Abbott Instruments	9	0.30	0.01	0.0	0.3	0.2 - 0.4	10	5.38	0.35	6.4	5.5	4.3 - 6.5
All Roche Instruments	10	0.42	0.04	10.0	0.4	0.2 - 0.6	10	5.94	0.19	3.2	6.0	5.3 - 6.6
All TOSOH Instruments	22	0.40	0.01	0.0	0.4	0.3 - 0.5	24	6.83	0.48	7.0	6.8	5.3 - 8.3
Abbott Architect	9	0.30	0.01	0.0	0.3	0.2 - 0.4	10	5.38	0.35	6.4	5.5	4.3 - 6.5
Beckman ACCESS / 2 / Dxl	45	0.35	0.06	17.0	0.3	0.1 - 0.6	43	5.95	0.65	10.9	6.2	4.0 - 7.9
Roche cobas e 411	5	0.44	0.05	12.4	0.4	0.2 - 0.7	5	5.94	0.21	3.5	5.9	5.3 - 6.6
Roche cobas e 601/ e 602	5	0.40	0.01	0.0	0.4	0.3 - 0.5	5	5.94	0.19	3.3	6.0	5.3 - 6.6
Siemens Dimension	17	0.30	0.01	0.0	0.3	0.2 - 0.4	18	4.98	0.56	11.2	4.9	3.3 - 6.7
TOSOH AIA PACK	8	0.40	0.01	0.0	0.4	0.3 - 0.5	8	6.76	0.39	5.8	6.8	5.5 - 8.0
TOSOH ST AIA PACK	17	0.57	0.50	87.8	0.4	0.0 - 2.1	17	6.75	0.70	10.4	6.7	4.6 - 8.9

<u>Method</u>	Specimen CH-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	119	2.79	0.39	14.1	2.8	1.6 - 4.0
All Abbott Instruments	10	2.49	0.20	7.9	2.5	1.8 - 3.1
All Roche Instruments	10	2.97	0.11	3.6	3.0	2.6 - 3.3
All TOSOH Instruments	25	3.37	0.48	14.2	3.3	1.9 - 4.9
Abbott Architect	10	2.49	0.20	7.9	2.5	1.8 - 3.1
Beckman ACCESS / 2 / Dxl	43	2.77	0.24	8.7	2.8	2.0 - 3.5
Roche cobas e 411	5	3.00	0.10	3.3	3.0	2.7 - 3.3
Roche cobas e 601/ e 602	5	2.94	0.11	3.9	2.9	2.5 - 3.3
Siemens Dimension	18	2.33	0.32	13.6	2.2	1.3 - 3.3
TOSOH AIA PACK	8	3.28	0.20	6.1	3.3	2.6 - 3.9
TOSOH ST AIA PACK	17	3.42	0.56	16.5	3.3	1.7 - 5.2

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-1			Specimen HCG-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	126	126	-	126	9	117
AimStep Combo Pregnancy	1	1	-	1	-	1
Alere hCG Combo Cassette	2	2	-	2	1	1
Beckman ACCESS / 2 / DxI	1	1	-	1	-	1
Beckman Coulter ICON 20 hCG	69	69	-	69	1	68
Beckman Coulter ICON 25 hCG	5	5	-	5	1	4
BTNX Rapid Response hCG	1	1	-	1	-	1
Cardinal Health SP Brand combo	9	9	-	9	4	5
CONSULT diagnostics hCG Combo	9	9	-	9	1	8
Henry Schein One Step + Combo	6	6	-	6	1	5
McKesson hCG Combo Cassette	3	3	-	3	-	3
Medline hCG Combo Test Cassette	2	2	-	2	-	2
Quidel QuickVue + One-Step	5	5	-	5	-	5
Quidel QuickVue One-Step Combo	9	9	-	9	-	9
Sekisui OSOM hCG Combo Test	2	2	-	2	-	2
Stanbio QUPID Plus	2	2	-	2	-	2

<u>Method</u>	Specimen HCG-3			Specimen HCG-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	126	126	-	126	126	-
AimStep Combo Pregnancy	1	1	-	1	1	-
Alere hCG Combo Cassette	2	2	-	2	2	-
Beckman ACCESS / 2 / DxI	1	1	-	1	1	-
Beckman Coulter ICON 20 hCG	69	69	-	69	69	-
Beckman Coulter ICON 25 hCG	5	5	-	5	5	-
BTNX Rapid Response hCG	1	1	-	1	1	-
Cardinal Health SP Brand combo	9	9	-	9	9	-
CONSULT diagnostics hCG Combo	9	9	-	9	9	-
Henry Schein One Step + Combo	6	6	-	6	6	-
McKesson hCG Combo Cassette	3	3	-	3	3	-
Medline hCG Combo Test Cassette	2	2	-	2	2	-
Quidel QuickVue + One-Step	5	5	-	5	5	-
Quidel QuickVue One-Step Combo	9	9	-	9	9	-
Sekisui OSOM hCG Combo Test	2	2	-	2	2	-
Stanbio QUPID Plus	2	2	-	2	2	-

Serum hCG – Qualitative

Specimen HCG-5

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	126	7	119
AimStep Combo Pregnancy	1	-	1
Alere hCG Combo Cassette	2	1	1
Beckman ACCESS / 2 / DxI	1	-	1
Beckman Coulter ICON 20 hCG	69	-	69
Beckman Coulter ICON 25 hCG	5	-	5
BTNX Rapid Response hCG	1	-	1
Cardinal Health SP Brand combo	9	2	7
CONSULT diagnostics hCG Combo	9	1	8
Henry Schein One Step + Combo	6	1	5
McKesson hCG Combo Cassette	3	-	3
Medline hCG Combo Test Cassette	2	-	2
Quidel QuickVue + One-Step	5	-	5
Quidel QuickVue One-Step Combo	9	1	8
Sekisui OSOM hCG Combo Test	2	-	2
Stanbio QUPID Plus	2	1	1

Serum hCG – Quantitative (mIU/mL)

<u>Method</u>	<u>Labs</u>	<u>Specimen HCG-1</u>					<u>Specimen HCG-2</u>					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	3211.2	2083.2	64.9	2330	0 - 7378	14	3.1	1.3	41.1	3	0 - 6
<u>Method</u>	<u>Labs</u>	<u>Specimen HCG-3</u>					<u>Specimen HCG-4</u>					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	303.9	148.4	48.8	227	7 - 601	11	1956.7	1088.0	55.6	1507	0 - 4133
<u>Method</u>	<u>Labs</u>	<u>Specimen HCG-5</u>										
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	3.1	1.3	43.2	3	0 - 6						

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	139	267.4	18.2	6.8	260	240 - 295	134	224.2	8.1	3.6	223	201 - 247
All Alfa Wassermann Reagents	15	254.8	7.0	2.8	254	229 - 281	15	218.8	6.6	3.0	219	196 - 241
All Horiba Pentra Reagents	11	254.5	3.9	1.5	254	229 - 281	11	220.7	4.5	2.0	220	198 - 243
All Roche Reagents	11	254.1	9.8	3.8	257	228 - 280	11	219.5	9.5	4.3	221	197 - 242
Alere Cholestech LDX												
Alere Cholestech LDX - waived	35	287.6	13.7	4.8	286	258 - 317	34	233.0	8.9	3.8	234	209 - 257
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	15	254.8	7.0	2.8	254	229 - 281	15	218.8	6.6	3.0	219	196 - 241
Beckman AU												
Beckman AU systems	20	256.3	6.1	2.4	256	230 - 282	20	219.8	4.1	1.9	219	197 - 242
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	254.5	3.9	1.5	254	229 - 281	11	220.7	4.5	2.0	220	198 - 243
Roche Integra												
Roche Integra	6	250.2	9.0	3.6	250	225 - 276	6	215.3	8.1	3.7	217	193 - 237
Siemens Healthcare												
Siemens Dimension	19	259.1	4.2	1.6	260	233 - 285	19	222.9	3.8	1.7	222	200 - 246
All Chemistry Instruments	20	258.3	5.5	2.1	260	232 - 285	20	222.7	3.8	1.7	222	200 - 245
VITROS												
VITROS 250,350,400 500,700,750,950	12	286.7	10.4	3.6	288	258 - 316	12	227.3	7.5	3.3	230	204 - 251
All Chemistry Instruments	14	289.7	12.6	4.3	290	260 - 319	13	228.1	7.6	3.3	230	205 - 251

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	102	64.7	3.3	5.0	65	58 - 72	106	160.3	4.7	3.0	160	144 - 177
All Alfa Wassermann Reagents	15	67.2	2.0	2.9	68	60 - 74	15	159.5	4.4	2.7	159	143 - 176
All Horiba Pentra Reagents	11	65.0	1.7	2.7	65	58 - 72	11	159.5	2.7	1.7	159	143 - 176
All Roche Reagents	11	64.6	2.5	3.8	65	58 - 72	11	158.6	5.9	3.7	160	142 - 175
Alere Cholestech LDX												
Alere Cholestech LDX - waived	3	-	-	-	100	90 - 110	3	-	-	-	169	144 - 177
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	15	67.2	2.0	2.9	68	60 - 74	15	159.5	4.4	2.7	159	143 - 176
Beckman AU												
Beckman AU systems	20	63.9	1.7	2.6	65	57 - 71	20	158.5	3.5	2.2	158	142 - 175
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	65.0	1.7	2.7	65	58 - 72	11	159.5	2.7	1.7	159	143 - 176
Roche Integra												
Roche Integra	6	63.7	2.0	3.1	64	57 - 71	6	156.0	5.2	3.3	157	140 - 172
Siemens Healthcare												
Siemens Dimension	18	65.7	1.9	2.9	66	59 - 73	19	159.5	2.2	1.4	160	143 - 176
All Chemistry Instruments	19	65.3	2.6	3.9	66	58 - 72	20	159.1	3.1	1.9	160	143 - 175
VITROS												
VITROS 250,350,400 500,700,750,950	12	59.6	2.2	3.7	60	53 - 66	12	164.5	5.0	3.0	165	148 - 181
All Chemistry Instruments	14	59.5	2.0	3.4	60	53 - 66	14	164.8	4.8	2.9	165	148 - 182

Cholesterol, Total (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	105	105.3	3.1	2.9	105	94 - 116
All Alfa Wassermann Reagents	15	107.1	2.9	2.7	107	96 - 118
All Horiba Pentra Reagents	11	105.0	1.4	1.3	105	94 - 116
All Roche Reagents	11	104.4	4.1	3.9	105	93 - 115
Alere Cholestech LDX						
Alere Cholestech LDX - waived	3	-	-	-	103	94 - 116
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	15	107.1	2.9	2.7	107	96 - 118
Beckman AU						
Beckman AU systems	20	104.1	2.3	2.2	104	93 - 115
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	11	105.0	1.4	1.3	105	94 - 116
Roche Integra						
Roche Integra	6	102.7	3.5	3.4	103	92 - 113
Siemens Healthcare						
Siemens Dimension	19	105.4	2.1	2.0	106	94 - 116
All Chemistry Instruments	20	105.0	2.8	2.7	106	94 - 116
VITROS						
VITROS 250,350,400 500,700,750,950	12	103.8	3.7	3.6	104	93 - 115
All Chemistry Instruments	14	103.6	3.5	3.4	104	93 - 114

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-1							Specimen CH-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	99	181.9	30.5	16.8	177	120 - 243	80	78.8	10.8	13.7	80	55 - 103
Calculated-Trig/5												
Alere Cholestech LDX - waived	32	218.6	16.1	7.4	219	152 - 285	14	88.4	7.8	8.8	89	61 - 115
Alfa Wassermann ACE Alera/Axcel	11	154.5	7.3	4.7	155	108 - 201	11	83.4	7.3	8.7	81	58 - 109
Beckman AU systems	13	150.5	7.4	4.9	150	105 - 196	13	76.6	6.1	7.9	74	53 - 100
Horiba ABX Pentra 400 / C400	8	148.6	6.5	4.3	149	104 - 194	8	85.6	6.3	7.4	87	59 - 112
Siemens Dimension	10	185.2	6.5	3.5	186	129 - 241	10	73.7	6.6	9.0	71	51 - 96
VITROS 250,350,400 500,700,750,950	8	176.6	8.1	4.6	177	123 - 230	8	63.3	7.8	12.3	65	44 - 83
All Chemistry Instruments	95	182.0	31.0	17.0	177	120 - 244	76	79.2	10.6	13.4	80	55 - 103
Specimen CH-3							Specimen CH-4					
All Method	67	18.2	4.6	25.0	19	9 - 28	70	55.2	7.7	13.9	55	38 - 72
Calculated-Trig/5												
Alere Cholestech LDX - waived	0	-	-	-	0	[No Laboratory]	3	-	-	-	68	38 - 73
Alfa Wassermann ACE Alera/Axcel	11	20.4	1.9	9.1	20	14 - 27	11	61.2	6.3	10.3	59	42 - 80
Beckman AU systems	13	19.8	2.2	11.0	19	13 - 26	13	55.1	4.5	8.2	53	38 - 72
Horiba ABX Pentra 400 / C400	8	22.9	2.2	9.8	23	16 - 30	8	60.0	4.9	8.1	60	42 - 78
Siemens Dimension	10	13.4	2.5	19.0	13	8 - 19	10	47.1	4.4	9.3	46	32 - 62
VITROS 250,350,400 500,700,750,950	8	13.0	1.8	13.6	13	9 - 17	8	52.4	4.3	8.2	54	36 - 69
All Chemistry Instruments	63	18.2	4.4	24.2	19	9 - 28	66	55.5	7.4	13.3	55	38 - 73
Specimen CH-5												
All Method	70	34.3	5.7	16.7	35	22 - 46						
Calculated-Trig/5												
Alere Cholestech LDX - waived	3	-	-	-	42	23 - 46						
Alfa Wassermann ACE Alera/Axcel	11	37.5	3.0	8.0	37	26 - 49						
Beckman AU systems	13	35.3	3.7	10.4	34	24 - 46						
Horiba ABX Pentra 400 / C400	8	38.5	3.4	8.9	38	26 - 51						
Siemens Dimension	10	27.3	3.1	11.3	27	19 - 36						
VITROS 250,350,400 500,700,750,950	8	31.6	3.7	11.7	32	22 - 42						
All Chemistry Instruments	66	34.3	5.6	16.4	35	23 - 46						

LDL Cholesterol - Direct (mg/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	33	119.2	20.9	17.6	119	77 - 162	33	80.3	17.8	22.1	78	44 - 116
Beckman AU Direct HDL / LDL Beckman AU systems	10	94.9	8.1	8.6	98	66 - 124	10	63.2	5.2	8.3	65	44 - 83
Roche LDL Direct All Chemistry Instruments	5	155.2	2.9	1.8	155	108 - 202	5	107.8	23.9	22.2	118	59 - 156
Siemens Automated LDL Siemens Dimension	9	125.1	6.6	5.3	125	87 - 163	9	85.3	5.4	6.3	84	59 - 111
	Specimen CH-3						Specimen CH-4					
All Method	33	20.4	6.3	31.0	20	7 - 33	33	57.5	13.7	23.8	56	30 - 85
Beckman AU Direct HDL / LDL Beckman AU systems	10	13.6	1.1	7.9	14	9 - 18	10	43.5	3.4	7.8	44	30 - 57
Roche LDL Direct All Chemistry Instruments	5	32.2	0.4	1.4	32	22 - 42	5	84.0	0.7	0.8	84	58 - 110
Siemens Automated LDL Siemens Dimension	9	22.3	1.5	6.7	22	15 - 30	9	60.1	4.1	6.8	60	42 - 79
	Specimen CH-5											
All Method	33	36.5	9.5	25.9	35	17 - 56						
Beckman AU Direct HDL / LDL Beckman AU systems	10	26.8	2.3	8.6	28	18 - 35						
Roche LDL Direct All Chemistry Instruments	5	54.8	0.8	1.5	55	38 - 72						
Siemens Automated LDL Siemens Dimension	9	38.7	2.4	6.3	38	27 - 51						

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-1</u>						<u>Specimen CH-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	134	70.2	18.2	25.9	79	49 - 92	132	95.4	7.0	7.4	97	66 - 125
All Dex-Sulfate 50,000 MW Methods	33	48.1	7.5	15.6	47	33 - 63	31	98.2	2.7	2.8	100	68 - 128
All Direct Methods	86	76.2	15.1	19.8	81	53 - 100	86	93.4	7.2	7.7	94	65 - 122
Alere Cholestech LDX												
Alere Cholestech LDX - waived	33	48.1	7.5	15.6	47	33 - 63	31	98.2	2.7	2.8	100	68 - 128
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	15	80.3	1.9	2.4	80	56 - 105	15	85.2	3.7	4.4	84	59 - 111
All Chemistry Instruments	16	80.9	3.0	3.8	80	56 - 106	16	85.9	4.5	5.2	84	60 - 112
Beckman AU Direct HDL / LDL												
Beckman AU systems	18	88.9	4.8	5.4	89	62 - 116	18	93.4	4.4	4.7	93	65 - 122
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	86.8	3.6	4.1	86	60 - 113	11	87.0	4.5	5.2	87	60 - 114
Roche HDL Direct												
Roche Integra	5	60.4	2.3	3.8	62	42 - 79	5	101.6	2.6	2.6	102	71 - 133
All Chemistry Instruments	10	83.0	65.4	78.8	62	58 - 108	10	115.9	41.7	36.0	103	81 - 151
Siemens Automated HDL												
Siemens Dimension	18	54.7	2.0	3.7	55	38 - 72	18	99.7	3.0	3.0	101	69 - 130
All Chemistry Instruments	19	54.7	1.9	3.6	55	38 - 72	19	99.6	2.9	2.9	100	69 - 130
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	10	83.6	7.2	8.6	82	58 - 109	10	103.7	4.4	4.2	104	72 - 135
All Chemistry Instruments	12	83.9	6.6	7.9	83	58 - 110	12	105.8	7.5	7.1	105	74 - 138

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	28.5	4.2	14.8	28	19 - 38	103	68.3	6.0	8.8	67	47 - 89
All Dex-Sulfate 50,000 MW Methods	3	-	-	-	18	12 - 24	3	-	-	-	68	51 - 95
All Direct Methods	86	28.8	4.3	15.0	28	20 - 38	86	68.1	6.3	9.3	67	47 - 89
Alere Cholestech LDX												
Alere Cholestech LDX - waived	3	-	-	-	18	19 - 38	3	-	-	-	68	47 - 89
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	15	28.3	1.4	5.1	28	19 - 37	15	62.6	2.5	4.0	63	43 - 82
All Chemistry Instruments	16	28.1	1.5	5.3	28	19 - 37	16	62.9	2.8	4.4	63	44 - 82
Beckman AU Direct HDL / LDL												
Beckman AU systems	18	26.0	2.1	7.9	26	18 - 34	18	66.2	3.9	5.8	67	46 - 87
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	24.6	1.4	5.5	25	17 - 33	11	62.3	2.9	4.7	62	43 - 81
Roche HDL Direct												
Roche Integra	5	30.0	0.7	2.4	30	21 - 39	5	74.8	2.2	2.9	76	52 - 98
All Chemistry Instruments	10	33.9	12.1	35.5	30	23 - 45	10	84.7	29.8	35.2	76	59 - 111
Siemens Automated HDL												
Siemens Dimension	18	35.9	0.9	2.5	36	25 - 47	18	75.9	2.0	2.6	76	53 - 99
All Chemistry Instruments	19	35.8	1.0	2.7	36	25 - 47	19	75.8	2.0	2.7	76	53 - 99
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	10	27.3	1.6	5.7	28	19 - 36	10	69.8	2.7	3.8	70	48 - 91
All Chemistry Instruments	12	27.5	1.5	5.5	28	19 - 36	12	70.5	2.9	4.1	70	49 - 92

Cholesterol, HDL (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	104	44.8	5.1	11.4	44	31 - 59
All Dex-Sulfate 50,000 MW Methods	3	-	-	-	37	27 - 51
All Direct Methods	86	45.2	5.3	11.8	44	31 - 59
Alere Cholestech LDX						
Alere Cholestech LDX - waived	3	-	-	-	37	31 - 59
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	15	42.5	2.0	4.6	42	29 - 56
All Chemistry Instruments	16	42.6	2.0	4.7	43	29 - 56
Beckman AU Direct HDL / LDL						
Beckman AU systems	18	42.3	2.8	6.5	43	29 - 55
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	11	40.4	2.4	5.9	41	28 - 53
Roche HDL Direct						
Roche Integra	5	49.4	1.1	2.3	49	34 - 65
All Chemistry Instruments	10	55.4	19.3	34.8	50	38 - 73
Siemens Automated HDL						
Siemens Dimension	18	53.1	1.3	2.4	53	37 - 70
All Chemistry Instruments	19	53.2	1.3	2.4	53	37 - 70
VITROS dHDL Slide						
VITROS 250,350,400 500,700,750,950	10	43.1	1.7	3.9	43	30 - 57
All Chemistry Instruments	12	43.7	2.0	4.6	44	30 - 57

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	134	100.9	7.3	7.3	101	75 - 127	132	251.0	16.7	6.6	248	188 - 314
All Alfa Wassermann Reagents	15	103.7	3.6	3.4	103	77 - 130	15	249.1	7.5	3.0	251	186 - 312
All Horiba Pentra Reagents	11	102.0	23.2	22.8	98	76 - 128	11	240.0	14.7	6.1	241	180 - 300
All Roche Reagents	11	100.9	4.2	4.2	100	75 - 127	11	246.1	6.3	2.6	248	184 - 308
Alere Cholestech LDX												
Alere Cholestech LDX - waived	32	102.9	4.9	4.8	104	77 - 129	31	243.6	11.1	4.6	244	182 - 305
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	15	103.7	3.6	3.4	103	77 - 130	15	249.1	7.5	3.0	251	186 - 312
Beckman AU												
Beckman AU systems	20	99.1	2.7	2.7	100	74 - 124	20	257.9	7.3	2.8	262	193 - 323
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	102.0	23.2	22.8	98	76 - 128	11	240.0	14.7	6.1	241	180 - 300
Roche Integra												
Roche Integra	6	100.0	1.1	1.1	100	75 - 125	6	250.2	3.4	1.4	250	187 - 313
Siemens Healthcare												
Siemens Dimension	19	92.6	2.9	3.1	93	69 - 116	19	247.3	4.2	1.7	246	185 - 310
All Chemistry Instruments	20	93.3	3.9	4.2	93	69 - 117	20	248.0	5.1	2.1	247	186 - 310
VITROS												
VITROS 250,350,400 500,700,750,950	12	114.1	3.1	2.8	114	85 - 143	12	295.3	12.6	4.3	293	221 - 370
All Chemistry Instruments	14	113.4	3.3	2.9	113	85 - 142	14	293.9	12.1	4.1	292	220 - 368

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	106	89.5	6.4	7.2	91	67 - 112	104	189.3	10.5	5.6	189	142 - 237
All Alfa Wassermann Reagents	15	94.9	3.1	3.3	96	71 - 119	15	190.9	5.0	2.6	190	143 - 239
All Horiba Pentra Reagents	11	87.2	4.8	5.5	88	65 - 109	11	183.1	10.3	5.6	183	137 - 229
All Roche Reagents	11	91.7	3.7	4.0	93	68 - 115	11	188.0	5.1	2.7	188	141 - 235
Alere Cholestech LDX												
Alere Cholestech LDX - waived	3	-	-	-	86	67 - 112	3	-	-	-	183	142 - 237
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	15	94.9	3.1	3.3	96	71 - 119	15	190.9	5.0	2.6	190	143 - 239
Beckman AU												
Beckman AU systems	20	91.5	2.9	3.1	92	68 - 115	20	192.1	5.1	2.7	194	144 - 241
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	87.2	4.8	5.5	88	65 - 109	11	183.1	10.3	5.6	183	137 - 229
Roche Integra												
Roche Integra	6	93.7	0.8	0.9	94	70 - 118	6	191.3	3.4	1.8	191	143 - 240
Siemens Healthcare												
Siemens Dimension	19	80.3	2.1	2.6	80	60 - 101	19	182.1	2.9	1.6	183	136 - 228
All Chemistry Instruments	19	80.3	2.1	2.6	80	60 - 101	20	182.7	3.9	2.1	183	137 - 229
VITROS												
VITROS 250,350,400 500,700,750,950	12	96.2	2.7	2.8	96	72 - 121	12	213.9	8.4	3.9	212	160 - 268
All Chemistry Instruments	14	95.6	2.9	3.0	95	71 - 120	14	212.8	8.3	3.9	211	159 - 266

Triglycerides (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	106	132.2	8.0	6.0	133	99 - 166
All Alfa Wassermann Reagents	15	136.2	3.2	2.3	136	102 - 171
All Horiba Pentra Reagents	11	127.6	6.5	5.1	129	95 - 160
All Roche Reagents	11	133.5	4.7	3.5	135	100 - 167
Alere Cholestech LDX						
Alere Cholestech LDX - waived	3	-	-	-	122	99 - 166
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	15	136.2	3.2	2.3	136	102 - 171
Beckman AU						
Beckman AU systems	20	133.8	4.0	3.0	135	100 - 168
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	11	127.6	6.5	5.1	129	95 - 160
Roche Integra						
Roche Integra	6	136.7	2.4	1.8	137	102 - 171
Siemens Healthcare						
Siemens Dimension	19	124.1	3.4	2.7	124	93 - 156
All Chemistry Instruments	20	124.6	4.0	3.2	124	93 - 156
VITROS						
VITROS 250,350,400 500,700,750,950	12	145.3	4.6	3.2	144	108 - 182
All Chemistry Instruments	14	144.6	4.7	3.2	143	108 - 181

Acetaminophen (µg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	4.1	Not graded	4	-	-	-	111.8	Not graded
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	6.1	Not graded	4	-	-	-	74.0	Not graded
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	36.1	Not graded						

Carbamazepine (µg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	3.1	Not graded	4	-	-	-	14.3	Not graded
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	3.4	Not graded	4	-	-	-	9.4	Not graded
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	5.6	Not graded						

Digoxin (ng/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	0.1	Not graded	4	-	-	-	2.9	Not graded
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	0.5	Not graded	4	-	-	-	2.0	Not graded
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	1.0	Not graded						

Gentamicin (µg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	1.0	Not graded	4	-	-	-	10.1	Not graded
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	1.0	Not graded	4	-	-	-	8.9	Not graded
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	4	-	-	-	3.2	Not graded						

Lithium (mmol/L)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	0.4	Not graded	4	-	-	-	2.1	Not graded
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	0.3	Not graded	4	-	-	-	1.4	Not graded
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	4	-	-	-	0.8	Not graded						

Phenobarbital (µg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	16.7	Not graded	3	-	-	-	49.4	Not graded
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	5.7	Not graded	3	-	-	-	33.9	Not graded
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	3	-	-	-	16.6	Not graded						

Phenytoin (µg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	8.0	Not graded	4	-	-	-	22.9	Not graded
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	7.3	Not graded	4	-	-	-	15.3	Not graded
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	4	-	-	-	11.4	Not graded						

Salicylate (mg/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	5.8	Not graded	4	-	-	-	38.5	Not graded
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	6.8	Not graded	4	-	-	-	25.7	Not graded
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	4	-	-	-	15.9	Not graded						

Theophylline (µg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	8.5	Not graded	3	-	-	-	30.4	Not graded
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	9.0	Not graded	3	-	-	-	23.4	Not graded
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	3	-	-	-	15.3	Not graded						

Valproic Acid (µg/mL)

<u>Method</u>	<u>Specimen CH-1</u>						<u>Specimen CH-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	34.5	Not graded	4	-	-	-	112.7	Not graded
<u>Method</u>	<u>Specimen CH-3</u>						<u>Specimen CH-4</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	36.6	Not graded	4	-	-	-	82.2	Not graded
<u>Method</u>	<u>Specimen CH-5</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	55.5	Not graded						

Vancomycin (µg/mL)

<u>Method</u>	<u>Specimen CH-1</u>						<u>Specimen CH-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	2.3	Not graded	4	-	-	-	45.2	Not graded
<u>Method</u>	<u>Specimen CH-3</u>						<u>Specimen CH-4</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	3.1	Not graded	4	-	-	-	26.5	Not graded
<u>Method</u>	<u>Specimen CH-5</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	12.8	Not graded						

Blood Lead (µg/dL)

<u>Instrument</u>	<u>Specimen LED-1</u>						<u>Specimen LED-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	12.0	Not graded	1	-	-	-	25.0	Not graded

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	Specimen NB-1						Specimen NB-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	11.24	0.54	4.8	11.3	8.9 - 13.5	19	15.83	0.56	3.6	15.9	12.6 - 19.0
No Reagent Required												
Bilirubinometer / Reichart UNISTAT	12	11.43	0.45	4.0	11.6	9.1 - 13.8	12	15.93	0.57	3.6	16.1	12.7 - 19.2
All Chemistry Instruments	16	11.38	0.42	3.7	11.5	9.1 - 13.7	16	15.89	0.51	3.2	16.0	12.7 - 19.1
<u>Method</u>	Specimen NB-3						Specimen NB-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	5.91	0.43	7.2	5.9	4.7 - 7.1	19	17.51	0.74	4.2	17.5	14.0 - 21.1
No Reagent Required												
Bilirubinometer / Unistat	12	5.69	0.37	6.5	5.6	4.5 - 6.9	12	17.67	0.80	4.6	17.8	14.1 - 21.3
All Chemistry Instruments	16	5.83	0.42	7.2	5.8	4.6 - 7.0	16	17.45	0.80	4.6	17.3	13.9 - 21.0
<u>Method</u>	Specimen NB-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	0.12	0.20	173.4	0.0	0.0 - 0.6						
No Reagent Required												
Bilirubinometer / Unistat	12	0.00	0.01	0.0	0.0	0.0 - 0.4						
All Chemistry Instruments	16	0.12	0.22	182.5	0.0	0.0 - 0.6						

Bilirubin, Direct (mg/dL)

<u>Method</u>	Specimen NB-1						Specimen NB-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	4.56	0.65	14.2	4.5	3.2 - 5.9	7	5.47	0.60	11.0	5.3	4.2 - 6.7
<u>Method</u>	Specimen NB-3						Specimen NB-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	1.16	0.31	26.8	1.0	0.5 - 1.8	7	3.67	0.51	14.0	3.5	2.6 - 4.7
<u>Method</u>	Specimen NB-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	0.09	0.15	170.8	0.0	0.0 - 0.4						

Blood Gases – pH

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-1				Specimen BG-2					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	7.495	0.024	0.3	7.51	7.45 - 7.54	7	7.303	0.022	0.3	7.31	7.26 - 7.35
i-STAT	6	7.507	0.006	0.1	7.51	7.46 - 7.55	6	7.313	0.006	0.1	7.31	7.27 - 7.36
			Specimen BG-3				Specimen BG-4					
All Method	7	7.135	0.024	0.3	7.15	7.09 - 7.18	7	7.160	0.022	0.3	7.17	7.12 - 7.20
i-STAT	6	7.147	0.006	0.1	7.15	7.10 - 7.19	6	7.170	0.010	0.1	7.17	7.13 - 7.21
			Specimen BG-5									
All Method	7	7.495	0.017	0.2	7.50	7.45 - 7.54						
i-STAT	6	7.503	0.006	0.1	7.50	7.46 - 7.55						

Blood Gases - pCO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-1				Specimen BG-2					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	29.40	2.94	10.0	28.0	24.4 - 34.4	7	21.53	1.32	6.1	21.0	16.5 - 26.6
i-STAT	6	27.93	0.15	0.5	27.9	22.9 - 33.0	6	20.87	0.15	0.7	20.9	15.8 - 25.9
			Specimen BG-3				Specimen BG-4					
All Method	7	71.73	4.05	5.6	70.6	65.9 - 77.5	7	59.28	3.33	5.6	58.6	54.2 - 64.3
i-STAT	6	69.87	1.97	2.8	69.1	64.2 - 75.5	6	57.73	1.55	2.7	58.2	52.7 - 62.8
			Specimen BG-5									
All Method	7	29.23	2.65	9.1	27.9	24.2 - 34.3						
i-STAT	6	27.90	0.01	0.0	27.9	22.9 - 32.9						

Blood Gases - pO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-1</u>				<u>Specimen BG-2</u>					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	114.25	2.50	2.2	114.5	106.7 - 121.8	7	165.00	8.04	4.9	162.5	140.8 - 189.2
i-STAT	6	114.33	3.06	2.7	115.0	105.1 - 123.5	6	161.33	4.04	2.5	159.0	149.2 - 173.5
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-3</u>				<u>Specimen BG-4</u>					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	84.48	5.49	6.5	86.0	67.9 - 101.0	7	74.13	9.38	12.7	77.0	45.9 - 102.3
i-STAT	6	87.00	2.65	3.0	88.0	79.0 - 95.0	6	78.67	2.89	3.7	77.0	70.0 - 87.4
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-5</u>									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	112.25	2.75	2.5	112.5	103.9 - 120.6						
i-STAT	6	111.67	3.06	2.7	111.0	102.5 - 120.9						

Blood Gases – Ionized Calcium (mmol/L)

One participant reported results for Blood Gases-Ionized Calcium. The vendor mean assay values for specimens BG-1 through BG-5 are: 0.90 mmol/L, 0.82 mmol/L, 2.19 mmol/L, 2.00 mmol/L, and 0.90 mmol/L, respectively.

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-1 through BG-5 are: 107 mmol/L, 109 mmol/L, 86 mmol/L, 75 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-1 through BG-5 are: 6.6 mmol/L, 6.1 mmol/L, 3.8 mmol/L, 2.7 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-1 through BG-5 are: 160 mmol/L, 145 mmol/L, 138 mmol/L, 124 mmol/L, and 160 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-1</u>				<u>Specimen BG-2</u>					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.50	0.71	47.1	1.5	0.0 - 3.7	5	0.95	0.49	52.1	1.0	0.0 - 2.5
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-3</u>				<u>Specimen BG-4</u>					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	4.65	1.63	35.0	4.7	0.0 - 9.6	5	5.70	1.41	24.8	5.7	1.4 - 10.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-5</u>									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.40	0.71	50.5	1.4	0.0 - 3.6						

Afinion Glycohemoglobin (percent)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen AFN-1</u>				<u>Specimen AFN-2</u>					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	78	6.29	0.16	2.5	6.3	5.9 - 6.7	77	8.11	0.14	1.7	8.1	7.7 - 8.6
All Alere Afinion												
Analyzers	78	6.29	0.16	2.5	6.3	5.9 - 6.7	77	8.11	0.14	1.7	8.1	7.7 - 8.6
Alere Afinion 2	19	6.35	0.21	3.3	6.4	6.0 - 6.7	18	8.16	0.14	1.7	8.2	7.7 - 8.6
Alere Afinion AS100	59	6.27	0.13	2.1	6.3	5.9 - 6.6	59	8.10	0.14	1.7	8.1	7.6 - 8.6

Glycohemoglobin (percent)

<u>Method</u>	Specimen GH-1						Specimen GH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	90	10.38	0.38	3.7	10.3	9.8 - 10.9	90	6.13	0.18	2.9	6.1	5.8 - 6.5
All Bio-Rad Methods	4	10.35	0.24	2.3	10.3	9.8 - 10.9	3	6.40	0.20	3.1	6.4	6.0 - 6.8
All Enzymatic A1c Methods	5	9.82	0.41	4.2	10.0	9.3 - 10.4	5	5.56	0.17	3.0	5.6	5.2 - 5.9
All Hemoglobin A1c Methods	86	10.40	0.38	3.6	10.4	9.8 - 11.0	87	6.15	0.16	2.6	6.2	5.8 - 6.5
All Roche Methods	6	10.35	0.14	1.3	10.3	9.8 - 10.9	7	6.03	0.16	2.7	6.1	5.7 - 6.4
All TOSOH Methods	14	10.07	0.11	1.1	10.1	9.5 - 10.6	14	6.07	0.11	1.8	6.1	5.7 - 6.4
Beckman AU A1c	6	9.87	0.37	3.7	10.1	9.3 - 10.4	6	6.07	0.08	1.3	6.1	5.7 - 6.4
Bio-Rad D-10 HbA1C	4	10.35	0.24	2.3	10.3	9.8 - 10.9	3	6.40	0.20	3.1	6.4	6.0 - 6.8
Roche cobas c501 HbA1c	3	10.27	0.06	0.6	10.3	9.7 - 10.8	3	6.03	0.21	3.5	6.1	5.7 - 6.4
Roche Integra A1C	3	10.43	0.15	1.5	10.4	9.9 - 11.0	4	6.03	0.15	2.5	6.0	5.7 - 6.4
Siemens DCA Vantage	40	10.69	0.27	2.5	10.7	10.1 - 11.3	41	6.20	0.15	2.4	6.2	5.8 - 6.6
Siemens Dimension HA1C	9	10.10	0.25	2.5	10.0	9.5 - 10.7	9	6.11	0.15	2.5	6.1	5.8 - 6.5
Siemens Dimension HB1C	4	10.23	0.10	0.9	10.3	9.7 - 10.8	4	6.23	0.13	2.0	6.2	5.9 - 6.6
TOSOH G8	14	10.07	0.11	1.1	10.1	9.5 - 10.6	14	6.07	0.11	1.8	6.1	5.7 - 6.4

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-1						Specimen WBG-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	271	309.1	33.3	10.8	318	247 - 371	274	204.6	23.3	11.4	210	163 - 246
All Abbott Methods	35	292.8	25.7	8.8	297	234 - 352	35	190.5	16.3	8.6	187	152 - 229
All Arkray Methods	10	330.1	17.7	5.4	329	264 - 397	11	219.5	12.0	5.4	221	175 - 264
All Bayer Methods	23	262.3	17.2	6.6	262	209 - 315	23	172.9	9.2	5.3	172	138 - 208
All Hemocue Methods	52	328.5	7.7	2.3	330	262 - 395	52	222.8	5.9	2.7	224	178 - 268
All Lifescan Methods	16	352.1	17.8	5.1	360	281 - 423	16	234.4	12.6	5.4	238	187 - 282
All Roche Methods	25	318.5	14.6	4.6	323	254 - 383	25	213.0	12.0	5.6	218	170 - 256
Abbott FreeStyle Lite/Freedom Lite	6	316.5	3.5	1.1	318	253 - 380	6	206.2	4.6	2.2	206	164 - 248
Abbott FreeStyle Precision Pro	23	283.1	24.8	8.8	279	226 - 340	23	184.0	15.0	8.2	182	147 - 221
Abbott Precision XceedPro	6	306.3	20.9	6.8	301	245 - 368	6	199.7	14.6	7.3	198	159 - 240
Arkray Platinum	10	330.1	17.7	5.4	329	264 - 397	11	219.5	12.0	5.4	221	175 - 264
Bayer Contour / Plus	21	259.9	15.9	6.1	261	207 - 312	21	172.0	8.9	5.2	172	137 - 207
HemoCue Glucose 201	51	328.4	7.7	2.4	329	262 - 395	51	222.8	6.0	2.7	223	178 - 268
Home Diagnostics True Balance / TrueTrack	9	565.9	41.2	7.3	589	452 - 680	11	477.5	16.8	3.5	480	381 - 573
Lifescan One Touch Ultra/2/Mini	16	352.1	17.8	5.1	360	281 - 423	16	234.4	12.6	5.4	238	187 - 282
Medline EvenCare G2 / G3	16	300.3	42.7	14.2	294	240 - 361	18	207.4	23.9	11.5	208	165 - 249
NOVA Biomedical StatStrip	22	272.8	13.6	5.0	270	218 - 328	22	178.2	6.8	3.8	179	142 - 214
Quintet / AC	29	339.9	15.1	4.4	339	271 - 408	29	221.6	9.2	4.2	221	177 - 266
Roche Accu-Chek Inform II	6	325.3	13.2	4.1	330	260 - 391	6	216.0	8.0	3.7	218	172 - 260
Roche Accu-Chek Performa	12	323.1	7.5	2.3	325	258 - 388	12	218.3	6.3	2.9	218	174 - 262
True Metrix Pro	33	295.8	17.3	5.9	294	236 - 355	32	186.6	7.5	4.0	187	149 - 224

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-3						Specimen WBG-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	372.5	16.7	4.5	374	298 - 447	14	191.3	9.4	4.9	192	153 - 230
All Lifescan Methods	11	377.8	12.8	3.4	378	302 - 454	11	191.8	9.2	4.8	192	153 - 231
All Roche Methods	2	-	-	-	344	274 - 413	2	-	-	-	183	146 - 219
Lifescan One Touch Ultra/2/Mini	11	377.8	12.8	3.4	378	302 - 454	11	191.8	9.2	4.8	192	153 - 231
Roche Accu-Chek Inform II	1	-	-	-	341	298 - 447	1	-	-	-	179	153 - 230
Roche Accu-Chek Performa	1	-	-	-	346	298 - 447	1	-	-	-	186	153 - 230
True Metrix Pro	2	-	-	-	322	298 - 447	2	-	-	-	169	153 - 230

<u>Method</u>	Specimen WBG-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	107.4	8.8	8.2	109	85 - 129
All Lifescan Methods	11	109.8	5.3	4.8	111	87 - 132
All Roche Methods	2	-	-	-	110	88 - 132
Lifescan One Touch Ultra/2/Mini	11	109.8	5.3	4.8	111	87 - 132
Roche Accu-Chek Inform II	1	-	-	-	108	85 - 129
Roche Accu-Chek Performa	1	-	-	-	112	85 - 129
True Metrix Pro	2	-	-	-	92	85 - 129

C-Peptide (ng/mL)

<u>Method</u>	Specimen CIP-1						Specimen CIP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	0.510	0.062	12.2	0.49	0.38 - 0.64	6	15.875	1.214	7.6	15.60	13.44 - 18.31

Insulin (μU/mL)

<u>Method</u>	Specimen CIP-1						Specimen CIP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	13.20	3.66	27.7	14.1	5.8 - 20.6	13	98.70	33.44	33.9	113.2	31.8 - 165.6
All TOSOH Instruments	6	47.65	4.74	9.9	47.7	38.1 - 57.2	6	273.20	19.80	7.2	273.2	233.6 - 312.8
Beckman ACCESS / 2 / Dxl	5	13.33	1.33	10.0	14.1	10.6 - 16.0	5	116.90	8.39	7.2	113.2	100.1 - 133.7

Parathyroid Hormone, Intact (pg/mL)

<u>Method</u>	Specimen CIP-1						Specimen CIP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	26.0	4.6	17.5	26	16 - 36	28	209.9	44.7	21.3	205	120 - 300
All Roche Methods	5	22.3	3.8	17.0	22	14 - 30	5	147.8	14.0	9.4	144	103 - 193
All TOSOH Instruments	5	25.6	2.1	8.1	26	17 - 34	5	207.2	15.1	7.3	203	145 - 270
Beckman ACCESS / 2 / Dxl	12	25.6	3.8	15.0	25	17 - 34	12	204.3	22.3	10.9	201	143 - 266

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

<u>Method</u>	Specimen CIP-1						Specimen CIP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	85	17.76	4.30	24.2	16.8	9.1 - 26.4	85	86.13	14.69	17.1	85.1	56.7 - 115.6
All Roche Instruments	10	17.29	2.27	13.1	17.9	12.7 - 21.9	10	88.96	13.96	15.7	96.0	61.0 - 116.9
All TOSOH Instruments	12	22.63	2.20	9.7	22.3	18.2 - 27.1	12	83.97	3.90	4.6	82.9	76.1 - 91.8
Abbott Architect	6	15.90	1.06	6.7	15.5	13.7 - 18.1	6	82.77	9.55	11.5	82.5	63.6 - 101.9
Beckman ACCESS / 2 / Dxl	37	14.82	2.66	17.9	14.0	9.5 - 20.2	36	85.71	10.20	11.9	83.6	65.3 - 106.2
Roche cobas e 411	5	15.86	1.66	10.5	16.3	12.5 - 19.2	5	80.50	13.71	17.0	81.3	53.0 - 108.0
Roche cobas e 601/ e 602	5	19.08	1.56	8.2	18.4	15.9 - 22.2	5	99.53	0.95	1.0	100.0	97.6 - 101.5
Siemens Dimension	5	18.82	0.54	2.9	19.0	17.7 - 20.0	5	69.20	2.07	3.0	68.5	65.0 - 73.4
TOSOH ST AIA PACK	9	22.22	2.11	9.5	22.1	18.0 - 26.5	9	83.38	4.10	4.9	82.8	75.1 - 91.6

Bioavailable Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-1						Specimen SHB-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	251.3	Not graded	3	-	-	-	131.1	Not graded

Free Testosterone (pg/mL)

<u>Method</u>	Specimen SHB-1						Specimen SHB-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	107.25	Not graded	3	-	-	-	56.0	Not graded

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

<u>Method</u>	Specimen SHB-1						Specimen SHB-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	58.177	7.212	12.4	56.42	36.54 - 79.82	13	38.828	5.065	13.0	38.55	23.63 - 54.03
Beckman ACCESS / 2 / Dxl	10	59.956	6.905	11.5	62.30	39.24 - 80.68	10	39.911	4.830	12.1	39.90	25.42 - 54.41

Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-1						Specimen SHB-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	592.3	91.8	15.5	563	414 - 771	13	278.3	27.4	9.9	272	194 - 362
Beckman ACCESS / 2 / Dxl	10	558.7	40.5	7.3	540	391 - 727	10	265.3	13.7	5.2	267	185 - 345

BNP (pg/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	1911.87	450.90	23.6	1100.0	1010.0 - 2813.7	19	76.51	17.52	22.9	47.0	41.4 - 111.6
i-STAT - moderate	5	2254.75	134.49	6.0	2243.5	1691.0 - 2818.5	5	89.50	5.92	6.6	91.5	67.1 - 111.9
Quidel Triage	11	973.18	134.53	13.8	991.0	704.1 - 1242.3	11	42.15	5.86	13.9	41.2	30.4 - 53.9
<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	3487.99	637.95	18.3	2777.0	2212.0 - 4763.9	13	976.69	241.30	24.7	704.0	494.0 - 1459.3
i-STAT - moderate	5	3947.00	309.74	7.8	3988.5	2960.2 - 4933.8	5	1162.25	76.47	6.6	1170.0	871.6 - 1452.9
Quidel Triage	5	1950.00	254.56	13.1	1940.0	1440.8 - 2459.2	5	539.25	96.70	17.9	583.5	345.8 - 732.7
<u>Method</u>	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	13	475.96	112.60	23.7	368.1	250.7 - 701.2						
i-STAT - moderate	5	564.00	29.94	5.3	570.5	423.0 - 705.0						
Quidel Triage	5	278.25	28.36	10.2	285.5	208.6 - 347.9						

CK-MB (ng/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	46.23	11.10	24.0	26.3	12.9 - 79.6	18	6.39	1.07	16.8	3.1	3.1 - 9.6
Quidel Triage	11	22.42	5.02	22.4	22.9	7.3 - 37.5	11	2.33	0.56	24.0	2.3	0.6 - 4.1
<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	89.43	21.08	23.6	45.5	26.1 - 152.7	18	26.20	4.93	18.8	12.7	11.4 - 41.0
Quidel Triage	11	40.74	11.61	28.5	38.1	5.9 - 75.6	11	11.14	2.33	20.9	10.9	4.1 - 18.2
<u>Method</u>	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	15.79	2.85	18.1	7.4	7.2 - 24.4						
Quidel Triage	11	6.39	1.47	23.1	6.6	1.9 - 10.9						

D-Dimer (ng/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	595.0	26.9	4.5	901	416 - 774	18	259.0	26.9	10.4	132	181 - 337
Instrumentation Laboratory (IL) ACL Series	5	595.0	26.9	4.5	595	416 - 774	5	259.0	26.9	10.4	259	181 - 337
Quidel Triage	13	940.8	98.8	10.5	911	658 - 1224	13	130.8	24.9	19.1	127	80 - 181
<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	980.5	36.1	3.7	1490	686 - 1275	18	405.0	1.4	0.3	583	283 - 527
Instrumentation Laboratory (IL) ACL Series	5	980.5	36.1	3.7	981	686 - 1275	5	405.0	1.4	0.3	405	283 - 527
Quidel Triage	13	1533.6	223.6	14.6	1510	1073 - 1994	13	600.4	59.8	10.0	587	420 - 781
<u>Method</u>	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	332.5	40.3	12.1	351	232 - 433						
Instrumentation Laboratory (IL) ACL Series	5	332.5	40.3	12.1	333	232 - 433						
Quidel Triage	13	353.8	47.7	13.5	348	247 - 460						

Myoglobin (ng/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	227.75	14.07	6.2	241.0	159.4 - 296.1	11	35.20	1.13	3.2	36.0	24.6 - 45.8
Quidel Triage	9	245.00	21.73	8.9	244.0	171.5 - 318.5	9	38.94	7.68	19.7	37.0	23.5 - 54.3
<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	417.60	22.63	5.4	376.0	292.3 - 542.9	11	133.15	4.31	3.2	142.0	93.2 - 173.1
Quidel Triage	9	378.11	30.40	8.0	372.0	264.6 - 491.6	9	145.11	18.54	12.8	149.0	101.5 - 188.7
<u>Method</u>	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	83.35	3.04	3.6	91.9	58.3 - 108.4						
Quidel Triage	9	95.59	15.32	16.0	97.4	64.9 - 126.3						

NT-proBNP (pg/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	1377.3	743.3	54.0	1366	0 - 2864	12	27.3	18.0	66.1	26	0 - 64
All Roche Methods	7	2020.5	47.4	2.3	2021	1515 - 2526	7	42.5	6.4	15.0	43	29 - 56
Roche cobas e 601/ e 602	5	2020.5	47.4	2.3	2021	1515 - 2526	5	42.5	6.4	15.0	43	29 - 56
Siemens Dimension NT-proBNP	5	734.0	14.1	1.9	734	550 - 918	5	12.0	1.4	11.8	12	9 - 15
	Specimen CK-3						Specimen CK-4					
All Method	7	2661.3	1416.6	53.2	1859	0 - 5495	7	542.0	395.1	72.9	325	0 - 1333
All Roche Methods	1	-	-	-	4297	3222 - 5372	1	-	-	-	998	748 - 1248
Roche cobas e 601/ e 602	1	-	-	-	4297	0 - 5495	1	-	-	-	998	0 - 1333
Siemens Dimension NT-proBNP	5	1843.5	21.9	1.2	1844	1382 - 2305	5	314.0	15.6	5.0	314	235 - 393
	Specimen CK-5											
All Method	7	263.3	220.6	83.8	141	0 - 705						
All Roche Methods	1	-	-	-	518	388 - 648						
Roche cobas e 601/ e 602	1	-	-	-	518	0 - 705						
Siemens Dimension NT-proBNP	5	136.0	7.1	5.2	136	102 - 170						

Troponin I (ng/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	12.562	14.268	113.6	5.22	0.00 - 41.10	35	0.209	0.272	130.1	0.06	0.00 - 0.76
All HS Troponin I Methods	6	39.268	11.435	29.1	39.22	16.39 - 62.14	6	0.687	0.307	44.7	0.69	0.07 - 1.31
All Non-HS Troponin I Methods	20	4.333	1.608	37.1	3.80	1.11 - 7.55	20	0.058	0.028	48.3	0.05	0.00 - 0.12
Beckman ACCESS / 2 / Dxl	5	3.723	0.489	13.1	3.75	2.60 - 4.84	5	0.050	0.001	0.0	0.05	0.03 - 0.07
i-STAT - moderate	5	16.283	1.009	6.2	15.98	11.39 - 21.17	5	0.275	0.013	4.7	0.28	0.19 - 0.36
Quidel Triage	11	3.925	0.772	19.7	3.80	2.37 - 5.47	11	0.050	0.004	8.9	0.05	0.03 - 0.07
Siemens Dimension	5	5.718	2.717	47.5	7.61	0.28 - 11.16	5	0.082	0.052	63.6	0.12	0.00 - 0.19

<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	25.585	26.260	102.6	10.80	0.00 - 78.11	35	6.165	7.855	127.4	1.77	0.00 - 21.88
All HS Troponin I Methods	6	73.783	17.961	24.3	74.43	37.86 - 109.71	6	20.757	6.941	33.4	20.37	6.87 - 34.64
All Non-HS Troponin I Methods	20	9.327	2.471	26.5	8.79	4.38 - 14.27	20	1.734	0.957	55.2	1.41	0.00 - 3.65
Beckman ACCESS / 2 / Dxl	5	8.848	0.886	10.0	8.78	6.19 - 11.51	5	1.680	0.217	12.9	1.64	1.17 - 2.19
i-STAT - moderate	5	37.075	0.953	2.6	36.89	25.95 - 48.20	5	8.140	0.430	5.3	8.33	5.69 - 10.59
Quidel Triage	11	8.884	1.240	14.0	8.56	6.21 - 11.55	11	1.242	0.276	22.2	1.19	0.68 - 1.80
Siemens Dimension	5	10.684	4.637	43.4	13.44	1.40 - 19.96	5	2.860	1.368	47.8	3.77	0.12 - 5.60

<u>Method</u>	Specimen CK-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	2.988	4.084	136.7	0.82	0.00 - 11.16
All HS Troponin I Methods	6	10.525	3.900	37.1	10.54	2.72 - 18.33
All Non-HS Troponin I Methods	20	0.739	0.464	62.7	0.59	0.00 - 1.67
Beckman ACCESS / 2 / Dxl	5	0.785	0.081	10.3	0.78	0.54 - 1.03
i-STAT - moderate	5	3.928	0.427	10.9	3.97	2.74 - 5.11
Quidel Triage	11	0.460	0.119	25.8	0.47	0.22 - 0.70
Siemens Dimension	5	1.316	0.591	44.9	1.71	0.13 - 2.50

Troponin T (ng/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.7720	0.2857	37.0	0.772	0.200 - 1.344	5	0.1290	0.0750	58.1	0.129	0.000 - 0.279
Roche cobas e 601/ e 602	5	0.7720	0.2857	37.0	0.772	0.200 - 1.344	5	0.1290	0.0750	58.1	0.129	0.000 - 0.279
<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.4500	0.4525	31.2	1.450	0.544 - 2.356	5	0.4700	0.1796	38.2	0.470	0.110 - 0.830
Roche cobas e 601/ e 602	5	1.4500	0.4525	31.2	1.450	0.544 - 2.356	5	0.4700	0.1796	38.2	0.470	0.110 - 0.830
<u>Method</u>	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	0.2935	0.1322	45.1	0.294	0.029 - 0.558						
Roche cobas e 601/ e 602	5	0.2935	0.1322	45.1	0.294	0.029 - 0.558						

PSA (ng/mL)

<u>Method</u>	Specimen PS-1						Specimen PS-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	80	0.326	0.059	18.0	0.33	0.00 - 1.23	80	35.746	7.117	19.9	37.99	25.02 - 46.47
All Beckman Instruments	21	0.363	0.039	10.8	0.37	0.00 - 1.27	21	38.972	1.968	5.0	38.87	27.28 - 50.67
All Roche Instruments	6	0.357	0.059	16.5	0.38	0.00 - 1.26	6	40.568	2.576	6.3	40.51	28.39 - 52.74
All TOSOH Instruments	16	0.318	0.020	6.3	0.32	0.00 - 1.22	16	26.372	1.054	4.0	26.23	18.46 - 34.29
Abbott Architect	6	0.260	0.017	6.4	0.26	0.00 - 1.16	6	36.360	4.379	12.0	36.39	25.45 - 47.27
Beckman ACCESS / 2 / Dxl	14	0.354	0.045	12.6	0.36	0.00 - 1.26	14	39.086	2.032	5.2	38.57	27.36 - 50.82
Beckman ACCESS Hybritech PSA	8	0.338	0.125	37.0	0.38	0.00 - 1.24	8	38.771	1.969	5.1	39.44	27.13 - 50.41
NanoEnTek FRIEND	5	0.390	0.095	24.5	0.38	0.00 - 1.29	5	25.000	0.001	0.0	25.00	17.50 - 32.50
Qualigen FastPack	5	0.205	0.039	18.9	0.21	0.00 - 1.11	5	47.500	5.000	10.5	50.00	33.25 - 61.75
Roche cobas e 411	5	0.327	0.076	23.2	0.36	0.00 - 1.23	5	39.240	2.392	6.1	38.96	27.46 - 51.02
Roche cobas e 601/ e 602	5	0.387	0.015	4.0	0.39	0.00 - 1.29	5	41.897	2.360	5.6	42.62	29.32 - 54.47
Siemens Dimension TPSA	12	0.322	0.051	16.0	0.32	0.00 - 1.23	12	40.610	2.450	6.0	41.03	28.42 - 52.80
TOSOH AIA PACK	5	0.322	0.015	4.6	0.32	0.00 - 1.23	5	26.170	0.931	3.6	26.28	18.31 - 34.03
TOSOH ST AIA PACK	11	0.316	0.022	7.1	0.32	0.00 - 1.22	11	26.464	1.135	4.3	26.21	18.52 - 34.41

Beta-2 microglobulin

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	3.104	0.084	2.7	3.10	2.85 - 3.36	8	0.332	0.055	16.7	0.33	0.16 - 0.50

CA 125 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	121.8	16.6	13.7	144	88 - 156	10	9.7	1.9	20.1	12	5 - 14
All TOSOH Instruments	9	159.3	9.4	5.9	159	127 - 192	9	12.1	1.1	8.7	12	9 - 15
TOSOH ST AIA PACK	9	159.3	9.4	5.9	159	127 - 192	9	12.1	1.1	8.7	12	9 - 15

CA 15-3 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	142.8	44.4	31.1	170	54 - 232	11	19.4	5.2	26.7	23	9 - 30

CA 19-9 (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	206.8	61.3	29.7	216	84 - 330	10	9.7	1.4	14.6	10	6 - 13

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	280.1	17.8	6.4	284	196 - 365	8	32.4	2.9	9.0	32	22 - 43
All TOSOH Instruments	8	280.1	17.8	6.4	284	196 - 365	8	32.4	2.9	9.0	32	22 - 43
TOSOH ST AIA PACK	8	280.1	17.8	6.4	284	196 - 365	8	32.4	2.9	9.0	32	22 - 43

CEA (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	59.72	7.11	11.9	71.3	47.7 - 71.7	9	2.20	0.13	6.0	2.4	1.0 - 3.4
All TOSOH Instruments	9	73.98	2.09	2.8	74.1	59.1 - 88.8	9	2.70	0.20	7.4	2.7	1.5 - 3.9
TOSOH ST AIA PACK	9	73.98	2.09	2.8	74.1	59.1 - 88.8	9	2.70	0.20	7.4	2.7	1.5 - 3.9

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	9.618	1.921	20.0	9.67	6.73 - 12.51	7	0.034	0.018	52.9	0.03	0.00 - 0.94

PSA (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	27	9.697	2.234	23.0	9.85	6.78 - 12.61	26	0.088	0.016	18.5	0.09	0.00 - 0.99
All Beckman Instruments	11	10.939	1.689	15.4	11.11	7.65 - 14.23	11	0.081	0.030	37.3	0.09	0.00 - 0.99

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	69.07	2.37	3.4	68.7	64.3 - 73.9	5	6.07	0.21	3.4	6.0	5.6 - 6.5
Beckman ACCESS / 2 / Dxl	5	69.07	2.37	3.4	68.7	64.3 - 73.9	5	6.07	0.21	3.4	6.0	5.6 - 6.5

CEA (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	1.02	0.11	10.7	1.2	0.0 - 2.3	7	38.90	8.96	23.0	61.3	31.1 - 46.7
All TOSOH Instruments	5	1.93	0.13	6.5	1.9	0.7 - 3.2	5	73.53	1.81	2.5	73.8	58.8 - 88.3

DHEA-S (µg/dL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	68.28	18.88	27.6	62.1	30.5 - 106.1	13	519.16	96.16	18.5	494.9	326.8 - 711.5
Beckman ACCESS / 2 / Dxl	10	64.53	9.33	14.5	62.4	45.1 - 83.9	10	504.65	55.68	11.0	500.3	353.2 - 656.1

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	36.3	12.6	34.7	36	11 - 62	26	570.3	164.7	28.9	508	240 - 900
All TOSOH Instruments	5	52.0	16.9	32.4	55	18 - 86	5	880.2	15.9	1.8	886	616 - 1145
Beckman ACCESS / 2 / Dxl	14	37.3	4.2	11.4	37	26 - 49	14	492.3	42.4	8.6	492	344 - 640

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	27	19.6	2.9	15.0	14	15 - 24	27	273.5	39.1	14.3	210	218 - 329
All Abbott Instruments	7	18.6	0.8	4.2	18	14 - 23	7	303.0	16.8	5.5	305	242 - 364
All Roche Instruments	7	20.7	2.1	9.9	21	16 - 25	7	288.0	21.9	7.6	295	230 - 346
All TOSOH Instruments	19	12.8	0.7	5.6	13	10 - 16	19	202.9	11.3	5.6	201	162 - 244
Abbott Architect	5	18.8	0.8	4.5	19	15 - 23	5	304.4	20.0	6.6	315	243 - 366
Beckman ACCESS / 2 / Dxl	24	12.9	1.1	8.8	13	10 - 16	24	201.7	16.0	7.9	197	161 - 243
Siemens Dimension	7	22.0	1.2	5.2	22	17 - 27	7	277.9	13.7	4.9	275	222 - 334
TOSOH ST AIA PACK	16	12.9	0.6	4.8	13	10 - 16	16	202.1	11.7	5.8	201	161 - 243

Folate (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	1.21	0.75	61.9	0.5	0.2 - 2.3	22	8.78	2.58	29.4	9.8	6.1 - 11.5
All Roche Instruments	8	2.01	0.04	1.8	2.0	1.0 - 3.1	8	8.04	0.60	7.4	8.2	5.6 - 10.5
All Siemens Dimension Instruments	5	0.68	0.20	30.1	0.7	0.0 - 1.7	5	5.72	0.83	14.4	5.9	4.0 - 7.5
All TOSOH Instruments	8	0.75	0.45	59.6	0.8	0.0 - 1.8	8	5.53	0.59	10.8	5.7	3.8 - 7.2
Abbott Architect	6	0.87	0.82	94.2	1.0	0.0 - 1.9	6	12.12	1.66	13.7	11.8	8.4 - 15.8
Beckman ACCESS / 2 / Dxl	22	0.17	0.30	175.2	0.0	0.0 - 1.2	22	10.77	1.01	9.3	10.8	7.5 - 14.1
Roche cobas e 601/ e 602	5	2.02	0.04	2.2	2.0	1.0 - 3.1	5	7.96	0.53	6.6	8.1	5.5 - 10.4

FSH (mIU/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	9.37	1.16	12.3	9.6	7.3 - 11.4	25	61.17	7.09	11.6	60.0	50.1 - 72.2
All TOSOH Instruments	7	10.20	0.61	6.0	10.4	8.2 - 12.2	7	56.24	2.30	4.1	56.0	46.1 - 66.4
Beckman ACCESS / 2 / Dxl	13	9.50	1.03	10.8	9.4	7.5 - 11.5	13	65.85	5.95	9.0	66.5	54.0 - 77.8

Homocysteine (µmol/L)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	7.7	0.6	7.5	8	5 - 10	5	56.7	5.9	10.3	59	39 - 74

LH (mIU/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	24	4.06	0.63	15.5	4.0	2.8 - 5.4	23	59.69	6.13	10.3	59.1	47.4 - 72.0
Beckman ACCESS / 2 / Dxl	14	4.12	0.38	9.3	4.1	3.2 - 5.0	14	56.20	3.76	6.7	56.3	44.9 - 67.5

Prealbumin (mg/dL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	-	-	-	-	-	-	-	-	-	-	-	-

Progesterone (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	2.55	0.50	19.6	2.4	1.9 - 3.2	19	40.82	6.53	16.0	40.0	30.6 - 51.1
Beckman ACCESS / 2 / Dxl	10	2.42	0.42	17.3	2.4	1.8 - 3.1	10	39.64	0.89	2.3	40.0	29.7 - 49.6

Prolactin (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	2.33	0.30	12.9	2.3	1.8 - 2.8	20	68.57	7.86	11.5	67.3	54.8 - 82.3
Beckman ACCESS / 2 / Dxl	12	2.42	0.27	11.3	2.4	1.9 - 3.0	12	69.25	6.75	9.7	68.0	55.4 - 83.1

Testosterone (ng/dL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	43	72.5	10.5	14.4	70	50 - 95	46	1402.9	254.2	18.1	1351	982 - 1824
All Roche Instruments	5	85.8	4.3	5.0	86	60 - 112	5	1500.0	0.1	0.0	1500	1050 - 1950
All TOSOH Instruments	10	74.7	9.5	12.7	75	52 - 98	11	1767.0	99.7	5.6	1767	1236 - 2298
Abbott Architect	6	65.5	10.2	15.6	63	45 - 86	6	1069.9	149.0	13.9	1009	748 - 1391
Beckman ACCESS / 2 / Dxl	21	71.2	8.9	12.5	69	49 - 93	21	1314.3	106.7	8.1	1316	920 - 1709
Roche cobas e 601/ e 602	5	85.8	4.3	5.0	86	60 - 112	5	1500.0	0.1	0.0	1500	1050 - 1950
TOSOH ST AIA PACK	7	74.7	10.6	14.1	72	52 - 98	7	1749.1	105.2	6.0	1767	1224 - 2274

Transferrin (mg/dL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	99.2	3.9	3.9	100	89 - 110	9	196.9	6.2	3.2	198	177 - 217

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	72	125.2	33.2	26.5	115	93 - 157	72	1317.8	241.1	18.3	1243	988 - 1648
All Abbott Instruments	7	149.9	14.4	9.6	150	112 - 188	7	1618.6	50.5	3.1	1634	1213 - 2024
All Roche Instruments	8	167.0	18.0	10.8	164	125 - 209	8	1654.5	99.8	6.0	1635	1240 - 2069
All Siemens Dimension Instruments	6	169.8	14.9	8.8	168	127 - 213	6	1514.2	67.9	4.5	1525	1135 - 1893
All TOSOH Instruments	11	141.0	20.2	14.3	142	105 - 177	11	1462.3	78.1	5.3	1473	1096 - 1828
Abbott Architect	6	145.5	9.4	6.5	147	109 - 182	6	1616.0	54.8	3.4	1625	1212 - 2020
Beckman ACCESS / 2 / Dxl	36	98.8	13.2	13.4	101	74 - 124	36	1122.4	85.6	7.6	1140	841 - 1404
Roche cobas e 601/ e 602	5	174.6	18.6	10.7	170	130 - 219	5	1676.0	96.2	5.7	1646	1257 - 2095
Siemens Dimension	5	170.2	16.6	9.8	167	127 - 213	5	1539.8	28.8	1.9	1528	1154 - 1925
TOSOH AIA PACK	7	144.6	19.8	13.7	144	108 - 181	7	1476.0	94.6	6.4	1498	1107 - 1845

Acetone

<u>Method</u>	Specimen ETH-1					Specimen ETH-2				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	11	-	1	1	9	11	-	-	1	10
Biorex Labs K-CHECK	10	-	-	1	9	10	-	-	-	10
Germaine Labs AimTab	1	-	1	-	-	1	-	-	1	-

<u>Method</u>	Specimen ETH-3					Specimen ETH-4				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	11	11	-	-	-	11	11	-	-	-
Biorex Labs K-CHECK	10	10	-	-	-	10	10	-	-	-
Germaine Labs AimTab	1	1	-	-	-	1	1	-	-	-

<u>Method</u>	Specimen ETH-5				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	11	11	-	-	-
Biorex Labs K-CHECK	10	10	-	-	-
Germaine Labs AimTab	1	1	-	-	-

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-1						Specimen ETH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	180.5	50.2	27.8	181	135 - 226	5	75.0	14.1	18.9	75	56 - 94

<u>Method</u>	Specimen ETH-3						Specimen ETH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	24.0	0.1	0.0	24	18 - 30	5	147.5	37.5	25.4	148	110 - 185

<u>Method</u>	Specimen ETH-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	162.5	47.4	29.2	163	121 - 204

Thyroglobulin Antibody (IU/mL)

<u>Method</u>	<u>Specimen THY-1</u>						<u>Specimen THY-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	0.404	0.322	79.7	0.35	0.00 - 1.38	16	493.329	139.829	28.3	570.45	73.84 - 912.82
All Abbott Methods	6	1.125	1.315	116.9	0.75	0.00 - 5.07	6	370.678	38.700	10.4	372.20	254.57 - 486.78
Abbott Architect	5	1.500	1.323	88.2	1.00	0.00 - 5.47	5	386.633	26.815	6.9	381.90	306.18 - 467.08
Beckman ACCESS / 2 / Dxl	8	0.419	0.253	60.5	0.35	0.00 - 1.18	8	598.838	29.358	4.9	592.95	510.76 - 686.92

Thyroid Peroxidase Antibody (TPO) (IU/mL)

<u>Method</u>	<u>Specimen THY-1</u>						<u>Specimen THY-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	0.606	1.184	195.4	0.10	0.00 - 4.16	19	71.309	15.351	21.5	65.90	25.25 - 117.37
All Abbott Methods	6	1.075	1.422	132.3	0.65	0.00 - 5.35	6	95.088	6.461	6.8	96.25	75.70 - 114.48
Abbott Architect	5	1.433	1.504	105.0	1.30	0.00 - 5.95	5	93.133	6.301	6.8	93.00	74.23 - 112.04
Beckman ACCESS / 2 / Dxl	10	0.140	0.066	47.0	0.10	0.00 - 0.34	10	66.590	4.142	6.2	65.55	54.16 - 79.02

Ammonia (µmol/L)

<u>Method</u>	<u>Specimen AMM-1</u>						<u>Specimen AMM-2</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	29.0	5.7	19.5	29	19 - 39	5	364.5	3.5	1.0	365	346 - 383
Siemens Dimension	5	29.0	5.7	19.5	29	19 - 39	5	364.5	3.5	1.0	365	346 - 383

Ethyl Glucuronide (EtG) (ng/mL)

<u>Method</u>	<u>Specimen ETG-1</u>			<u>Specimen ETG-2</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
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

<u>Method</u>	Specimen AUR-1						Specimen AUR-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	2	-	-	-	1.002	Not graded	2	-	-	-	1.004	Not graded

Adulterated Urine – Specific Gravity Interpretation

<u>Method</u>	Specimen AUR-1			Specimen AUR-2		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	2	2	-	2	2	-

Adulterated Urine – pH

<u>Method</u>	Specimen AUR-1						Specimen AUR-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	6.35	0.78	12.2	6.4	5.3 - 7.4	5	2.85	1.06	37.2	2.9	1.8 - 3.9

Adulterated Urine – pH Interpretation

<u>Method</u>	Specimen AUR-1			Specimen AUR-2		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	3	3	-	3	-	3
Axiom Diagnostics	1	1	-	1	-	1
Carolina Chemistries BiOlis	1	1	-	1	-	1
Siemens Viva-E	1	1	-	1	-	1

Adulterated Urine – Creatinine (mg/dL)

<u>Method</u>	Specimen AUR-1						Specimen AUR-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	5.15	0.21	4.1	5.2	2.1 - 8.2	6	64.60	0.71	1.1	64.6	53.6 - 75.6
Beckman AU	5	5.15	0.21	4.1	5.2	2.1 - 8.2	5	64.60	0.71	1.1	64.6	53.6 - 75.6

Adulterated Urine – Creatinine Interpretation

<u>Method</u>	Specimen AUR-1			Specimen AUR-2		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	4	-	4	4	4	-
Beckman AU	1	-	1	1	1	-
Carolina Chemistries BiOlis	1	-	1	1	1	-
ImmTox	2	-	2	2	2	-

Adulterated Urine – Nitrite Interpretation

<u>Method</u>	Specimen AUR-1			Specimen AUR-2		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	2	2	-	2	2	-

Adulterated Urine – Oxidants Interpretation

<u>Method</u>	Specimen AUR-1			Specimen AUR-2		
	<u>Labs</u>	<u>Negative/ Normal</u>	<u>Positive/ Abnormal</u>	<u>Labs</u>	<u>Negative/ Normal</u>	<u>Positive/ Abnormal</u>
ALL METHODS	2	2	-	2	2	-
Beckman AU	1	1	-	1	1	-
Siemens Viva-E	1	1	-	1	1	-

Urine Drug Screen

Acetaminophen (µg/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

Amphetamines (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	98	1	97	98	1	97
Cut-off 300						
Beckman AU	1	-	1	1	-	1
Siemens Viva-E	1	-	1	1	-	1
All Cut-off 300	2	-	2	2	-	2
Cut-off 500						
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
First Sign Drugs of Abuse	1	1	-	1	1	-
ImmTox	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics DRI	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	19	1	18	19	1	18
Cut-off 1000						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	3	-	3	3	-	3
Beckman AU	1	-	1	1	-	1
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	3	-	3	3	-	3

Amphetamines (ng/mL) cont'd

	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Germaine Labs AimScreen	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	2	-	2	2	-	2
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	3	-	3	3	-	3
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	10	-	10	10	-	10
All Cut-off 1000	75	-	75	75	-	75

Amphetamines/Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	13	-	13	13	-	13
Cut-off 300						
Roche Integra	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Abbott Alinity	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
MEDTOX Diagnostics	1	-	1	1	-	1
Mindray BS-200/BS-480	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
All Cut-off 500	6	-	6	6	-	6
Cut-off 1000						
Beckman AU	1	-	1	1	-	1
McKesson Consult Drug Panel	2	-	2	2	-	2
Microgenics DRI	2	-	2	2	-	2
All Cut-off 1000	5	-	5	5	-	5

Barbiturates (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	83	-	83	83	-	83
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 200						
Abbott Alinity	1	-	1	1	-	1
Beckman AU	3	-	3	3	-	3
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
MEDTOX Diagnostics	3	-	3	3	-	3
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	21	-	21	21	-	21
Cut-off 300						
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alere iScreen	24	-	24	24	-	24
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	2	-	2	2	-	2
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	9	-	9	9	-	9
All Cut-off 300	60	-	60	60	-	60

Benzodiazepines (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	100	3	97	100	96	4
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						
MEDTOX Diagnostics	3	-	3	3	3	-
All Cut-off 150	3	-	3	3	3	-
Cut-off 200						
Abbott Alinity	1	-	1	1	1	-
Beckman AU	3	-	3	3	3	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
ImmTox	1	-	1	1	1	-
Indiko Plus	2	-	2	2	2	-
Microgenics DRI	6	-	6	6	6	-
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	21	-	21	21	21	-
Cut-off 300						
12 Panel Now	1	-	1	1	1	-
Alere iCassette	3	-	3	3	3	-
Alere iCup	1	-	1	1	1	-
Alere iScreen	24	1	23	24	23	1
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	1	3	4	2	2
Immunalysis	1	-	1	1	1	-
McKesson Consult Drug Panel	2	-	2	2	2	-
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 UScreen Cup	12	-	12	12	12	-
All Cut-off 300	72	2	70	72	69	3

Buprenorphine (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	40	-	40	40	1	39
Cut-off 5						
Beckman AU	2	-	2	2	-	2
Indiko Plus	2	-	2	2	-	2
Microgenics CEDIA	3	-	3	3	-	3
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	11	-	11	11	-	11
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 Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	4	-	4	4	-	4
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics CEDIA	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	1	-	1	1	-	1
USDiagnostics UScreen Cup	3	-	3	3	-	3
All Cut-off 10	27	-	27	27	1	26
Cut-off 20						
Microgenics CEDIA	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1

Cannabinoids (THC) (ng/mL)

<u>Method</u>	<u>Specimen UDS-1</u>			<u>Specimen UDS-2</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	100	-	100	100	1	99
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
Abbott Alinity	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	9	-	9	9	-	9
Beckman AU	3	-	3	3	-	3
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
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 Labs AimScreen	4	-	4	4	-	4
ImmTox	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	2	-	2	2	-	2
McKesson Drug Panel	7	-	7	7	-	7
MEDTOX Diagnostics	3	-	3	3	-	3
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	9	-	9	9	-	9
All Cut-off 50	97	-	97	97	1	96
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Carisoprodol (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

Cocaine Metabolites (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	116	114	2	116	3	113
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						
Abbott Alinity	1	1	-	1	-	1
Beckman AU	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	5	5	-	5	-	5
First Sign Drugs of Abuse	1	-	1	1	1	-
ImmTox	2	2	-	2	-	2
Indiko Plus	1	1	-	1	-	1
MEDTOX Diagnostics	3	3	-	3	-	3
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
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	25	24	1	25	1	24
Cut-off 300						
12 Panel Now	1	1	-	1	-	1
Alere iCassette	3	3	-	3	-	3
Alere iCup	1	1	-	1	-	1

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

	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Alere iScreen	24	23	1	24	1	23
Alfa Scientific Instant-View	9	9	-	9	-	9
Beckman AU	2	2	-	2	-	2
BluRapid Multi-Drug Urine Test Cup	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	1	1	-	1	-	1
Confirm Biosciences DoA Test	1	1	-	1	-	1
First Sign Drugs of Abuse	1	1	-	1	-	1
Germaine Labs AimScreen	4	4	-	4	-	4
Immunalysis	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Lin-Zhi International	1	1	-	1	-	1
McKesson Consult Drug Panel	2	2	-	2	-	2
McKesson Drug Panel	7	7	-	7	-	7
Microgenics DRI	5	5	-	5	-	5
Noble Medical Inc.	1	1	-	1	-	1
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	2	2	-	2	-	2
USDiagnosics One Step Multi-Drug	2	2	-	2	-	2
USDiagnosics UScreen Cup	10	10	-	10	-	10
All Cut-off 300	86	85	1	86	1	85

Cotinine (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

EDDP (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	6	-	6	6	-	6
Cut-off 100						
ImmTox	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
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
McKesson Consult Drug Panel	1	-	1	1	-	1
All Cut-off 300	2	-	2	2	-	2
Cut-off 1000						
Indiko Plus	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1

Ethanol (Alcohol) (mg/dL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	9	-	9	9	-	9
Cut-off 10						
Abbott Alinity	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
All Cut-off 10	3	-	3	3	-	3
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						
Microgenics DRI	3	-	3	3	-	3
All Cut-off 100	3	-	3	3	-	3

Fentanyl (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	7	-	7	7	-	7
Cut-off 1						
Abbott Alinity	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 1	3	-	3	3	-	3
Cut-off 2						
Beckman AU	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 2	2	-	2	2	-	2

Hydrocodone (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	1	-

LSD (ng/mL)

<u>Method</u>	<u>Specimen UDS-1</u>			<u>Specimen UDS-2</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

MDMA (ng/mL)

<u>Method</u>	<u>Specimen UDS-1</u>			<u>Specimen UDS-2</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	61	-	61	61	1	60
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	24	-	24	24	-	24
Beckman AU	2	-	2	2	-	2
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 Consult Drug Panel	2	-	2	2	-	2
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	9	-	9	9	-	9
All Cut-off 500	59	-	59	59	1	58

Meperidine (ng/mL)

<u>Method</u>	<u>Specimen UDS-1</u>			<u>Specimen UDS-2</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

Methadone (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	86	84	2	86	2	84
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	3	3	-	3	-	3
All Cut-off 200	3	3	-	3	-	3
Cut-off 300						
12 Panel Now	1	1	-	1	-	1
Abbott Alinity	1	1	-	1	-	1
Alere iCassette	3	3	-	3	-	3
Alere iCup	1	1	-	1	-	1
Alere iScreen	24	23	1	24	1	23
Beckman AU	2	2	-	2	-	2
BluRapid Multi-Drug Urine Test Cup	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
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	-
Indiko Plus	2	2	-	2	-	2
Lin-Zhi International	1	1	-	1	-	1
McKesson Consult Drug Panel	2	1	1	2	-	2
McKesson Drug Panel	7	7	-	7	-	7
Microgenics DRI	5	5	-	5	-	5
Mindray BS-200/BS-480	1	1	-	1	-	1
Noble Medical Inc.	1	1	-	1	-	1

Methadone (ng/mL) cont'd

	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positiv</u> <u>e</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
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
USDiagnosics One Step Multi-Drug	2	2	-	2	-	2
USDiagnosics UScreen Cup	9	9	-	9	-	9
All Cut-off 300	79	77	2	79	2	77
Cut-off 1000						
CLIAwaived, Inc. Drug Test	1	1	-	1	-	1
All Cut-off 1000	1	1	-	1	-	1

Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	77	1	76	77	1	76
Cut-off 500						
Alere iScreen	24	-	24	24	-	24
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
First Sign Drugs of Abuse	1	1	-	1	1	-
ImmTox	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnostics UScreen Cup	3	-	3	3	-	3
All Cut-off 500	41	1	40	41	1	40
Cut-off 1000						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	2	-	2	2	-	2
McKesson Consult Drug Panel	3	-	3	3	-	3
McKesson Drug Panel	6	-	6	6	-	6
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	10	-	10	10	-	10
All Cut-off 1000	35	-	35	35	-	35

Methanol (mg/dL)

	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

Methaqualone (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

6-MAM (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	8	-	8	8	-	8
Cut-off 10						
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Immunoanalysis	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)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	114	2	112	114	111	3
Cut-off 100						
Beckman AU	1	-	1	1	1	-
MEDTOX Diagnostics	1	-	1	1	1	-
All Cut-off 100	2	-	2	2	2	-
Cut-off 300						
12 Panel Now	1	-	1	1	1	-
Abbott Alinity	1	-	1	1	1	-
Alere iScreen	24	1	23	24	23	1
Alfa Scientific Instant-View	2	-	2	2	2	-
Beckman AU	3	-	3	3	3	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
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	5	-	5	5	5	-
Microgenics DRI	6	-	6	6	6	-
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	1	1
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	78	1	77	78	76	2

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

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Cut-off 2000						
Alere iCassette	3	-	3	3	3	-
Alere iCup	1	-	1	1	1	-
Alfa Scientific Instant-View	7	-	7	7	7	-
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	1	-
CLIAwaived, Inc. Drug Test	1	-	1	1	1	-
First Sign Drugs of Abuse	3	1	2	3	2	1
Germaine Labs AimScreen	4	-	4	4	4	-
Immunalysis	1	-	1	1	1	-
McKesson Consult Drug Panel	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	3	-	3	3	3	-
All Cut-off 2000	33	1	32	33	32	1

Oxycodone (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	84	1	83	84	3	81
Cut-off 100						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	2	-	2	2	-	2
Alere iCup	1	-	1	1	-	1
Alere iScreen	25	1	24	25	2	23
Beckman AU	3	-	3	3	-	3
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	1	-	1	1	1	-
ImmTox	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
McKesson Consult Drug Panel	2	-	2	2	-	2
McKesson Drug Panel	7	-	7	7	-	7
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics DRI	5	-	5	5	-	5
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	9	-	9	9	-	9
All Cut-off 100	79	1	78	79	3	76
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)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	81	1	80	81	78	3
Cut-off 25						
Abbott Alinity	1	-	1	1	1	-
Alere iCassette	3	-	3	3	2	1
Alere iCup	1	-	1	1	1	-
Alere iScreen	24	1	23	24	23	1
Alfa Scientific Instant-View	3	-	3	3	3	-
Beckman AU	3	-	3	3	3	-
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
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
Germaine Labs AimScreen	2	-	2	2	2	-
Indiko Plus	1	-	1	1	1	-
McKesson Consult Drug Panel	2	-	2	2	2	-
McKesson Drug Panel	7	-	7	7	7	-
MEDTOX Diagnostics	3	-	3	3	3	-
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	9	-	9	9	9	-
All Cut-off 25	79	1	78	79	76	3
Cut-off 100						
Beckman AU	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-

Propoxyphene (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	15	-	15	15	-	15
Cut-off 300						
Abbott Alinity	1	-	1	1	-	1
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
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	5	-	5	5	-	5
MEDTOX Diagnostics	3	-	3	3	-	3
All Cut-off 300	15	-	15	15	-	15

Tramadol (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	4	1	5	-	5
Cut-off 200						
All Cut-off 200	4	4	-	4	-	4

Tricyclic Antidepressants (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	24	-	24	24	-	24
Cut-off 300						
MEDTOX Diagnostics	3	-	3	3	-	3
All Cut-off 300	3	-	3	3	-	3
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	2	-	2	2	-	2
McKesson Drug Panel	7	-	7	7	-	7
USDiagnostics UScreen Cup	6	-	6	6	-	6
All Cut-off 1000	21	-	21	21	-	21

Zolpidem (mg/dL)

	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	1	-	1	-	1

Urine Amylase (U/L)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	201	Not graded	3	-	-	-	117	Not graded

Urine Calcium (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	7.2	Not graded	4	-	-	-	9.5	Not graded

Urine Chloride (mmol/L)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	163	Not graded	4	-	-	-	76	Not graded

Urine Creatinine (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	134.53	12.50	9.3	130.8	111.6 - 157.4	6	71.40	5.95	8.3	69.4	59.2 - 83.6

Urine Glucose (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	154	Not graded	3	-	-	-	26	Not graded

Urine Magnesium (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	5.6	Not graded	2	-	-	-	2.8	Not graded

Urine Osmolality (mOsm/kg)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	600	Not graded	1	-	-	-	346	Not graded

Urine Phosphorus (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	38.4	Not graded	2	-	-	-	19.8	Not graded

Urine Potassium (mmol/L)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	66	Not graded	3	-	-	-	23	Not graded

Urine Sodium (mmol/L)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	133	Not graded	3	-	-	-	84	Not graded

Urine Total Protein (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	41.00	8.77	21.4	41.0	22.9 - 59.1	5	8.40	2.12	25.3	8.4	4.7 - 12.1

Urine Urea Nitrogen (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	541	Not graded	2	-	-	-	388	Not graded

Urine Uric Acid (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	8.2	Not graded	1	-	-	-	5.1	Not graded

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