

# **MEDICAL LABORATORY EVALUATION**

## **PARTICIPANT SUMMARY**

**2 • 0 • 1 • 8**

Chemistry  
2018 MLE-M3



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

## Table of Contents

<b>Evaluation Criteria</b> .....	<b>3</b>	Homocysteine .....	104
Acetaminophen .....	83	Insulin .....	94
Acetone .....	106	Iron.....	26
Adulterated Urine .....	107	Lactate Dehydrogenase.....	61
Albumin .....	9	Lactate (Lactic Acid) .....	27
Alcohol, Serum .....	106	LDL Cholesterol, Calculated .....	75
Alkaline Phosphatase.....	52	LDL Cholesterol, Direct.....	76
Alpha-fetoprotein (AFP).....	64	LH .....	104
ALT (SGPT).....	49	Lipase .....	63
Ammonia .....	107	Lithium .....	84
Amylase (Serum).....	60	Magnesium .....	27
Apolipoprotein A1 .....	88	Myoglobin .....	98
Apolipoprotein B .....	88	NT-proBNP .....	98
AST (SGOT).....	55	Parathyroid Hormone, Intact .....	94
Beta-2 Microglobulin.....	101	Phenobarbital.....	85
Bilirubin, Direct (CH Specimens).....	12	Phenytoin.....	85
Bilirubin, Direct (NB Specimens) .....	89	Phosphorus.....	29
Bilirubin, Neonatal (Total).....	88	Potassium (CH Specimens).....	43
Bilirubin, Total.....	14	Potassium (IST Specimens) .....	4
Blood Gases.....	89	Progesterone .....	104
BNP .....	96	Prolactin.....	105
C-Peptide .....	94	Protein, Total.....	31
CA 125 .....	101	PSA (PS Specimens).....	101
CA 15-3 .....	101	PSA (TM Specimens) .....	102
CA 19-9 .....	101	PSA, Free .....	102
CA 27/29 .....	102	Salicylate .....	86
Calcium .....	17	Sex Hormone Binding Globulin (SHBG) .....	95
Calcium, Ionized (IST Specimens) .....	8	Sodium (CH Specimens) .....	45
Carbamazepine .....	83	Sodium (IST Specimens).....	4
CEA (SC Specimens) .....	103	T3, Free .....	66
CEA (TM Specimens).....	102	T3 Uptake (% Uptake) .....	65
Chloride (CH Specimens).....	39	tCO <sub>2</sub> (IST Specimens).....	5
Chloride (IST Specimens) .....	5	Testosterone (SC Samples).....	105
Cholesterol, Total .....	72	Testosterone (SHB Samples) .....	95
CK-MB.....	96	Testosterone, Bioavailable.....	95
CO <sub>2</sub> (CH Specimens).....	41	Testosterone, Free.....	95
Cortisol .....	64	Theophylline.....	86
Creatine Kinase.....	58	Thyroglobulin .....	102
Creatinine (CH Specimens).....	20	Thyroglobulin Antibody .....	107
Creatinine (IST Specimens) .....	8	Thyroid Peroxidase Antibody (TPO) .....	107
D-Dimer .....	97	Thyroxine, Free.....	67
DHEA-S.....	103	Thyroxine, Total T4 .....	66
Digoxin .....	83	TIBC, Calculated.....	47
Estradiol .....	103	TIBC, Direct .....	47
Ethyl Glucuronide .....	110	Transferrin .....	105
Ferritin .....	103	Triglycerides.....	80
Folate .....	104	Triiodothyronine, Total T3 .....	65
FSH .....	104	Troponin I.....	99
Gentamicin .....	84	Troponin T .....	100
GGT .....	59	TSH.....	68
Glucose, Whole Blood (WBG Specimens) .....	92	UIBC, Direct.....	48
Glucose, Serum (CH Specimens) .....	23	Urea Nitrogen (CH Specimens) .....	34
Glucose (IST Specimens).....	6	Urea Nitrogen (IST Specimens).....	6
Glycohemoglobin (AFN Specimens) .....	91	Uric Acid .....	37
Glycohemoglobin (GH Specimens) .....	92	Urine Chemistry .....	131
HCG, Serum—Qualitative .....	69	Urine Drug Screen .....	110
HCG, Serum—Quantitative .....	71	Valproic Acid.....	87
Hematocrit.....	7	Vancomycin .....	87
Hemoglobin .....	7	Vitamin B12.....	105
HDL Cholesterol.....	77	Vitamin D (25-Hydroxy).....	94

## 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	$\pm 20\%$	Lactate (Lactic Acid)	$\pm 0.4$ mmol/L or 3 SD *
Acetone	80% Consensus	LDL Cholesterol	$\pm 2$ SD or 30% *
Albumin	$\pm 10\%$	Lipase	$\pm 30\%$
Alcohol	$\pm 25\%$	LH	$\pm 2$ SD
Alpha-fetoprotein	$\pm 3$ SD	Lithium	$\pm 0.3$ mmol/L or 20% *
Alkaline Phosphatase	$\pm 30\%$	Magnesium	$\pm 25\%$
ALT (SGPT)	$\pm 20\%$	Myoglobin	$\pm 2$ SD or 30% *
Ammonia	$\pm 2$ SD or 5% *	NT-proBNP	$\pm 2$ SD or 25% *
Amylase	$\pm 30\%$	Parathyroid Hormone, Intact	$\pm 2$ SD
Apolipoprotein A1	$\pm 30\%$	Phenobarbital	$\pm 20\%$
Apolipoprotein B	$\pm 30\%$	Phenytoin	$\pm 25\%$
AST (SGOT)	$\pm 20\%$	Phosphorus	$\pm 0.3$ mg/dL or 10.7% *
B-Type Natriuretic Peptide (BNP)	$\pm 2$ SD or 25% *	Potassium	$\pm 0.5$ mmol/L
Beta-2 Microglobulin	$\pm 3$ SD	Progesterone	$\pm 30\%$
Bilirubin, Direct	$\pm 2$ SD	Prolactin	$\pm 3.6$ ng/mL or 30% *
Bilirubin, Total	$\pm 0.4$ mg/dL or 20% *	Protein, Total (Serum)	$\pm 10\%$
Bilirubin, Neonatal (Total)	$\pm 0.4$ mg/dL or 20% *	Protein, Total (Urine)	$\pm 44\%$
C-Peptide	$\pm 2$ SD	PSA	$\pm 0.9$ ng/mL or 30% *
CA 125	$\pm 2$ SD or 30% *	PSA, Free	$\pm 0.9$ ng/mL or 30% *
CA 15-3	$\pm 2$ SD or 30% *	pCO <sub>2</sub>	$\pm 5$ mmHg or 8% *
CA 19-9	$\pm 2$ SD or 30% *	pH	$\pm 0.04$
CA 27/29	$\pm 2$ SD or 30% *	pO <sub>2</sub>	$\pm 3$ SD
Calcium	$\pm 1.0$ mg/dL	Salicylate	$\pm 20\%$
Calcium, Ionized	$\pm 3$ SD	SHBG	$\pm 3$ SD
Carbamazepine	$\pm 25\%$	Sodium	$\pm 4.0$ mmol/L
CEA	$\pm 1.2$ ng/mL 30%	T <sub>3</sub> Uptake (% Uptake)	$\pm 3$ SD
Chloride	$\pm 5\%$	T3, Free	$\pm 3$ SD
Cholesterol	$\pm 10\%$	T4, Free	$\pm 3$ SD
CK-MB (Quantitative)	$\pm 3$ SD	tCO <sub>2</sub>	$\pm 20\%$
CO <sub>2</sub>	$\pm 20\%$	Testosterone	$\pm 30\%$
Cortisol	$\pm 25\%$	Testosterone, Bioavailable	$\pm 3$ SD
Creatine Kinase	$\pm 30\%$	Testosterone, Free	$\pm 3$ SD
Creatinine (Serum)	$\pm 0.3$ mg/dL or 15% *	Theophylline	$\pm 25\%$
Creatinine (Urine)	$\pm 17\%$	Thyroglobulin	$\pm 2$ SD
D-Dimer	$\pm 2$ SD or 30% *	Thyroglobulin Antibody	$\pm 2$ SD
DHEA-S	$\pm 30\%$	Thyroid Peroxidase Antibody (TPO)	$\pm 2$ SD
Digoxin	$\pm 0.2$ mg/dL or 20% *	Thyroxine, Total T <sub>4</sub>	$\pm 1.0$ $\mu$ g/dL or 20% *
Estradiol	$\pm 2$ SD	TIBC	$\pm 2$ SD or 20% *
Ferritin	$\pm 30\%$	Transferrin	$\pm 10\%$
Folate	$\pm 0.9$ ng/mL or 30%*	Triglyceride	$\pm 25\%$
FSH	$\pm 25\%$	Triiodothyronine, Total T <sub>3</sub>	$\pm 3$ SD
Gentamicin	$\pm 25\%$	Troponin I	$\pm 2$ SD or 30% *
GGT	$\pm 2$ SD or 20% *	Troponin T	$\pm 2$ SD or 30% *
Glucose, Serum	$\pm 6$ mg/dL or 10% *	TSH	$\pm 3$ SD
Glucose, Whole Blood	$\pm 12$ mg/dL or 20% *	UIBC	$\pm 2$ SD or 20% *
Glycohemoglobin	$\pm 6\%$	Urea Nitrogen	$\pm 2.0$ mg/dL or 9% *
HDL Cholesterol	$\pm 30\%$	Uric Acid	$\pm 17\%$
HCG, Serum—Qualitative	80% Consensus	Urine Drug Screen	80% Consensus
HCG, Serum—Quantitative	$\pm 3$ SD	Valproic Acid	$\pm 25\%$
Hematocrit	$\pm 6\%$	Vancomycin	$\pm 25\%$
Hemoglobin	$\pm 7\%$	Vitamin B <sub>12</sub>	$\pm 30\%$
Homocysteine	$\pm 30\%$	Vitamin D	$\pm 2$ SD
Insulin	$\pm 2$ SD	Troponin I	$\pm 2$ SD or 30% *
Iron	$\pm 20\%$	Troponin T	$\pm 30\%$
Lactate Dehydrogenase	$\pm 20\%$		

\*Whichever is greater

## Sodium (mmol/L)

<u>Instrument</u>	<b>Specimen IST-11</b>						<b>Specimen IST-12</b>					
	<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	138.2	0.5	0.4	138	134 - 143	104	131.8	0.6	0.4	132	127 - 136
All i-STAT Instruments	103	138.2	0.5	0.4	138	134 - 143	104	131.8	0.6	0.4	132	127 - 136
i-STAT - waived	95	138.2	0.6	0.4	138	134 - 143	96	131.8	0.6	0.4	132	127 - 136
<u>Instrument</u>	<b>Specimen IST-13</b>						<b>Specimen IST-14</b>					
	<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	87	155.7	0.5	0.3	156	151 - 160	87	126.2	0.5	0.4	126	122 - 131
All i-STAT Instruments	87	155.7	0.5	0.3	156	151 - 160	87	126.2	0.5	0.4	126	122 - 131
i-STAT - waived	79	155.7	0.5	0.3	156	151 - 160	79	126.2	0.4	0.4	126	122 - 131
<u>Instrument</u>	<b>Specimen IST-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	89	131.8	0.6	0.4	132	127 - 136						
All i-STAT Instruments	89	131.8	0.6	0.4	132	127 - 136						
i-STAT - waived	81	131.8	0.6	0.4	132	127 - 136						

## Potassium (mmol/L)

<u>Instrument</u>	<b>Specimen IST-11</b>						<b>Specimen IST-12</b>					
	<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	4.40	0.01	0.0	4.4	3.9 - 4.9	103	3.41	0.03	0.7	3.4	2.9 - 4.0
All i-STAT Instruments	101	4.40	0.01	0.0	4.4	3.9 - 4.9	103	3.41	0.03	0.7	3.4	2.9 - 4.0
i-STAT - moderate	10	4.40	0.01	0.0	4.4	3.9 - 4.9	10	3.41	0.03	0.9	3.4	2.9 - 4.0
i-STAT - waived	91	4.40	0.01	0.0	4.4	3.9 - 4.9	93	3.41	0.02	0.7	3.4	2.9 - 4.0
<u>Instrument</u>	<b>Specimen IST-13</b>						<b>Specimen IST-14</b>					
	<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	87	4.60	0.01	0.0	4.6	4.1 - 5.1	89	2.26	0.05	2.3	2.3	1.7 - 2.8
All i-STAT Instruments	87	4.60	0.01	0.0	4.6	4.1 - 5.1	89	2.26	0.05	2.3	2.3	1.7 - 2.8
i-STAT - moderate	10	4.60	0.01	0.0	4.6	4.1 - 5.1	10	2.23	0.05	2.2	2.2	1.7 - 2.8
i-STAT - waived	77	4.60	0.01	0.0	4.6	4.1 - 5.1	79	2.26	0.05	2.3	2.3	1.7 - 2.8
<u>Instrument</u>	<b>Specimen IST-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	84	3.40	0.01	0.0	3.4	2.9 - 3.9						
All i-STAT Instruments	84	3.40	0.01	0.0	3.4	2.9 - 3.9						
i-STAT - moderate	10	3.41	0.03	0.9	3.4	2.9 - 4.0						
i-STAT - waived	75	3.40	0.01	0.0	3.4	2.9 - 3.9						

**Chloride (mmol/L)**

<u>Instrument</u>	<b>Specimen IST-11</b>						<b>Specimen IST-12</b>					
	<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	91.2	0.8	0.9	91	86 - 96	103	112.2	0.8	0.7	112	106 - 118
All i-STAT Instruments	103	91.2	0.8	0.9	91	86 - 96	103	112.2	0.8	0.7	112	106 - 118
i-STAT - moderate	10	91.0	1.1	1.2	91	86 - 96	10	112.3	0.5	0.4	112	106 - 118
i-STAT - waived	93	91.2	0.8	0.8	91	86 - 96	93	112.2	0.8	0.7	112	106 - 118

  

<u>Instrument</u>	<b>Specimen IST-13</b>						<b>Specimen IST-14</b>					
	<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	97.0	0.7	0.8	97	92 - 102	89	79.3	0.6	0.8	79	75 - 84
All i-STAT Instruments	88	97.0	0.7	0.8	97	92 - 102	89	79.3	0.6	0.8	79	75 - 84
i-STAT - moderate	10	96.8	1.3	1.4	97	91 - 102	10	79.2	0.6	0.8	79	75 - 84
i-STAT - waived	79	97.0	0.7	0.7	97	92 - 102	79	79.4	0.6	0.8	79	75 - 84

  

<u>Instrument</u>	<b>Specimen IST-15</b>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	89	112.1	0.7	0.6	112	106 - 118
All i-STAT Instruments	89	112.1	0.7	0.6	112	106 - 118
i-STAT - moderate	10	112.3	0.8	0.7	112	106 - 118
i-STAT - waived	79	112.1	0.7	0.6	112	106 - 118

**tCO<sub>2</sub> (mmol/L)**

<u>Instrument</u>	<b>Specimen IST-11</b>						<b>Specimen IST-12</b>					
	<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	96	27.9	1.0	3.5	28	22 - 34	95	18.1	0.8	4.5	18	14 - 22
All i-STAT Instruments	96	27.9	1.0	3.5	28	22 - 34	95	18.1	0.8	4.5	18	14 - 22
i-STAT - waived	88	27.9	1.0	3.5	28	22 - 34	87	18.1	0.8	4.4	18	14 - 22

  

<u>Instrument</u>	<b>Specimen IST-13</b>						<b>Specimen IST-14</b>					
	<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	86	25.5	0.9	3.6	26	20 - 31	87	23.3	0.8	3.6	23	18 - 29
All i-STAT Instruments	86	25.5	0.9	3.6	26	20 - 31	87	23.3	0.8	3.6	23	18 - 29
i-STAT - waived	78	25.5	1.0	3.7	26	20 - 31	79	23.4	0.9	3.7	23	18 - 29

  

<u>Instrument</u>	<b>Specimen IST-15</b>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	85	17.9	0.7	3.9	18	14 - 22
All i-STAT Instruments	85	17.9	0.7	3.9	18	14 - 22
i-STAT - waived	76	17.9	0.6	3.5	18	14 - 22

**Urea Nitrogen (BUN) (mg/dL)**

<u>Instrument</u>	<b>Specimen IST-11</b>						<b>Specimen IST-12</b>					
	<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	35.4	0.7	2.1	35	32 - 39	103	5.8	0.4	7.2	6	3 - 8
All i-STAT Instruments	102	35.4	0.7	2.1	35	32 - 39	103	5.8	0.4	7.2	6	3 - 8
i-STAT - waived	93	35.4	0.7	2.0	35	32 - 39	94	5.8	0.4	7.2	6	3 - 8
<u>Instrument</u>	<b>Specimen IST-13</b>						<b>Specimen IST-14</b>					
	<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	54.6	1.0	1.7	55	49 - 60	89	9.3	0.4	4.8	9	7 - 12
All i-STAT Instruments	88	54.6	1.0	1.7	55	49 - 60	89	9.3	0.4	4.8	9	7 - 12
i-STAT - waived	79	54.7	0.9	1.7	55	49 - 60	80	9.3	0.4	4.8	9	7 - 12
<u>Instrument</u>	<b>Specimen IST-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	89	5.7	0.4	7.7	6	3 - 8						
All i-STAT Instruments	89	5.7	0.4	7.7	6	3 - 8						
i-STAT - waived	80	5.8	0.4	7.4	6	3 - 8						

**Glucose (mg/dL)**

<u>Instrument</u>	<b>Specimen IST-11</b>						<b>Specimen IST-12</b>					
	<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	86.4	1.7	2.0	86	77 - 96	102	36.5	1.1	3.0	36	30 - 43
All i-STAT Instruments	102	86.4	1.7	2.0	86	77 - 96	102	36.5	1.1	3.0	36	30 - 43
i-STAT - waived	92	86.3	1.6	1.9	86	77 - 95	93	36.5	1.1	3.0	36	30 - 43
<u>Instrument</u>	<b>Specimen IST-13</b>						<b>Specimen IST-14</b>					
	<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	86	195.2	1.6	0.8	195	175 - 215	88	50.4	1.1	2.1	50	44 - 57
All i-STAT Instruments	86	195.2	1.6	0.8	195	175 - 215	88	50.4	1.1	2.1	50	44 - 57
i-STAT - waived	78	195.1	1.6	0.8	195	175 - 215	79	50.3	1.1	2.1	50	44 - 57
<u>Instrument</u>	<b>Specimen IST-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	88	36.3	1.1	2.9	36	30 - 43						
All i-STAT Instruments	88	36.3	1.1	2.9	36	30 - 43						
i-STAT - waived	79	36.3	1.1	2.9	36	30 - 43						

## Hematocrit (percent)

<u>Instrument</u>	<b>Specimen IST-11</b>						<b>Specimen IST-12</b>					
	<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	36.3	0.8	2.1	36	34 - 39	16	18.6	0.6	3.4	19	17 - 20
All i-STAT Instruments	16	36.3	0.8	2.1	36	34 - 39	16	18.6	0.6	3.4	19	17 - 20
i-STAT - waived	15	36.3	0.8	2.2	36	34 - 39	15	18.5	0.6	3.5	18	17 - 20
<u>Instrument</u>	<b>Specimen IST-13</b>						<b>Specimen IST-14</b>					
	<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	32.0	0.1	0.0	32	30 - 34	11	15.0	0.1	0.0	15	14 - 16
All i-STAT Instruments	11	32.0	0.1	0.0	32	30 - 34	11	15.0	0.1	0.0	15	14 - 16
i-STAT - waived	10	32.0	0.1	0.0	32	30 - 34	10	15.0	0.1	0.0	15	14 - 16
<u>Instrument</u>	<b>Specimen IST-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	18.5	0.5	3.0	19	17 - 20						
All i-STAT Instruments	11	18.5	0.5	3.0	19	17 - 20						
i-STAT - waived	10	18.4	0.5	3.0	18	17 - 20						

## Hemoglobin (g/dL)

<u>Instrument</u>	<b>Specimen IST-11</b>						<b>Specimen IST-12</b>					
	<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	12.29	0.27	2.2	12.2	11.4 - 13.2	16	6.32	0.24	3.8	6.3	5.8 - 6.8
All i-STAT Instruments	16	12.29	0.27	2.2	12.2	11.4 - 13.2	16	6.32	0.24	3.8	6.3	5.8 - 6.8
i-STAT - waived	15	12.30	0.28	2.3	12.2	11.4 - 13.2	15	6.31	0.24	3.8	6.1	5.8 - 6.8
<u>Instrument</u>	<b>Specimen IST-13</b>						<b>Specimen IST-14</b>					
	<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	10.90	0.01	0.0	10.9	10.1 - 11.7	11	5.10	0.01	0.0	5.1	4.7 - 5.5
All i-STAT Instruments	11	10.90	0.01	0.0	10.9	10.1 - 11.7	11	5.10	0.01	0.0	5.1	4.7 - 5.5
i-STAT - waived	10	10.90	0.01	0.0	10.9	10.1 - 11.7	10	5.10	0.01	0.0	5.1	4.7 - 5.5
<u>Instrument</u>	<b>Specimen IST-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	6.30	0.22	3.5	6.3	5.8 - 6.8						
All i-STAT Instruments	11	6.30	0.22	3.5	6.3	5.8 - 6.8						
i-STAT - waived	10	6.26	0.22	3.5	6.1	5.8 - 6.7						

**Creatinine (mg/dL)**

<u>Instrument</u>	<b>Specimen IST-11</b>						<b>Specimen IST-12</b>					
	<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	113	2.51	0.08	3.0	2.5	2.1 - 2.9	112	7.07	0.23	3.3	7.1	6.0 - 8.2
All i-STAT Instruments	113	2.51	0.08	3.0	2.5	2.1 - 2.9	112	7.07	0.23	3.3	7.1	6.0 - 8.2
i-STAT - waived	104	2.51	0.08	3.0	2.5	2.1 - 2.9	103	7.07	0.23	3.3	7.1	6.0 - 8.2

  

<u>Instrument</u>	<b>Specimen IST-13</b>						<b>Specimen IST-14</b>					
	<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	4.72	0.16	3.3	4.7	4.0 - 5.5	88	0.37	0.05	13.2	0.4	0.0 - 0.7
All i-STAT Instruments	88	4.72	0.16	3.3	4.7	4.0 - 5.5	88	0.37	0.05	13.2	0.4	0.0 - 0.7
i-STAT - waived	79	4.72	0.16	3.4	4.7	4.0 - 5.5	79	0.37	0.05	12.9	0.4	0.0 - 0.7

  

<u>Instrument</u>	<b>Specimen IST-15</b>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	87	7.06	0.23	3.2	7.0	6.0 - 8.2
All i-STAT Instruments	87	7.06	0.23	3.2	7.0	6.0 - 8.2
i-STAT - waived	78	7.07	0.23	3.3	7.0	6.0 - 8.2

**Ionized Calcium (mmol/L)**

<u>Instrument</u>	<b>Specimen IST-11</b>						<b>Specimen IST-12</b>					
	<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	95	1.303	0.014	1.1	1.30	1.26 - 1.35	95	2.495	0.010	0.4	2.50	2.46 - 2.53
All i-STAT Instruments	95	1.303	0.014	1.1	1.30	1.26 - 1.35	95	2.495	0.010	0.4	2.50	2.46 - 2.53
i-STAT - waived	87	1.303	0.014	1.1	1.30	1.26 - 1.35	87	2.495	0.010	0.4	2.50	2.46 - 2.53

  

<u>Instrument</u>	<b>Specimen IST-13</b>						<b>Specimen IST-14</b>					
	<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	83	0.955	0.011	1.1	0.96	0.92 - 0.99	83	0.597	0.006	1.1	0.60	0.57 - 0.62
All i-STAT Instruments	83	0.955	0.011	1.1	0.96	0.92 - 0.99	83	0.597	0.006	1.1	0.60	0.57 - 0.62
i-STAT - waived	75	0.955	0.011	1.1	0.96	0.92 - 0.99	75	0.597	0.006	1.1	0.60	0.57 - 0.62

  

<u>Instrument</u>	<b>Specimen IST-15</b>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	83	2.495	0.009	0.4	2.50	2.46 - 2.53
All i-STAT Instruments	83	2.495	0.009	0.4	2.50	2.46 - 2.53
i-STAT - waived	75	2.495	0.009	0.4	2.50	2.46 - 2.53



**Albumin (g/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<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	235	2.11	0.20	9.7	2.1	1.8 - 2.4	235	4.12	0.46	11.2	4.3	3.7 - 4.6
All Bromocresol Green Reagents	165	2.17	0.20	9.1	2.2	1.9 - 2.4	164	4.40	0.19	4.3	4.4	3.9 - 4.9
All Bromocresol Purple Reagents	69	1.95	0.10	5.1	1.9	1.7 - 2.2	70	3.46	0.12	3.5	3.5	3.1 - 3.9
Abaxis Piccolo												
Abaxis Piccolo - waived	22	2.04	0.08	4.2	2.0	1.8 - 2.3	22	3.37	0.10	3.1	3.3	3.0 - 3.8
All Chemistry Instruments	29	2.03	0.08	3.8	2.0	1.8 - 2.3	30	3.37	0.10	3.1	3.3	3.0 - 3.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	2.31	0.09	3.7	2.3	2.0 - 2.6	24	4.44	0.16	3.5	4.5	3.9 - 4.9
Beckman AU												
Beckman AU systems	33	2.13	0.06	2.7	2.1	1.9 - 2.4	34	4.42	0.09	2.1	4.4	3.9 - 4.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	2.30	0.08	3.5	2.3	2.0 - 2.6	19	4.28	0.14	3.3	4.2	3.8 - 4.8
Roche Integra												
Roche Integra	21	2.28	0.07	3.3	2.3	2.0 - 2.6	21	4.60	0.13	2.8	4.6	4.1 - 5.1
Siemens Healthcare												
Siemens Dimension	36	1.89	0.05	2.8	1.9	1.7 - 2.1	37	3.54	0.08	2.2	3.5	3.1 - 3.9
All Chemistry Instruments	37	1.89	0.05	2.7	1.9	1.7 - 2.1	38	3.53	0.08	2.2	3.5	3.1 - 3.9
VITROS												
VITROS 250,350,400 500,700,750,950	30	1.87	0.05	2.9	1.9	1.6 - 2.1	31	4.21	0.18	4.3	4.2	3.7 - 4.7
All Chemistry Instruments	36	1.87	0.05	2.9	1.9	1.6 - 2.1	37	4.22	0.17	4.1	4.2	3.8 - 4.7

**Albumin (g/dL)**

<b><u>Reagent/Instrument</u></b>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	216	3.74	0.37	9.8	3.9	3.3 - 4.2	216	2.78	0.26	9.5	2.9	2.4 - 3.1
All Bromocresol Green Reagents	165	3.92	0.19	4.9	3.9	3.5 - 4.4	165	2.89	0.20	6.8	2.9	2.5 - 3.2
All Bromocresol Purple Reagents	51	3.16	0.09	2.8	3.2	2.8 - 3.5	51	2.42	0.08	3.1	2.4	2.1 - 2.7
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	3.2	2.8 - 3.5	4	-	-	-	2.5	2.2 - 2.7
All Chemistry Instruments	11	3.12	0.13	4.3	3.1	2.8 - 3.5	11	2.45	0.08	3.3	2.4	2.2 - 2.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	3.96	0.11	2.7	4.0	3.5 - 4.4	23	2.98	0.08	2.7	3.0	2.6 - 3.3
Beckman AU												
Beckman AU systems	34	3.94	0.09	2.3	4.0	3.5 - 4.4	34	2.88	0.07	2.6	2.9	2.5 - 3.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	3.86	0.08	2.0	3.9	3.4 - 4.3	19	2.97	0.12	4.0	2.9	2.6 - 3.3
Roche Integra												
Roche Integra	21	4.13	0.12	2.9	4.1	3.7 - 4.6	21	3.04	0.10	3.2	3.0	2.7 - 3.4
Siemens Healthcare												
Siemens Dimension	37	3.17	0.07	2.2	3.2	2.8 - 3.5	37	2.41	0.07	2.8	2.4	2.1 - 2.7
All Chemistry Instruments	38	3.17	0.07	2.2	3.2	2.8 - 3.5	38	2.41	0.07	2.7	2.4	2.1 - 2.7
VITROS												
VITROS 250,350,400 500,700,750,950	31	3.69	0.12	3.3	3.7	3.3 - 4.1	31	2.58	0.10	3.8	2.6	2.3 - 2.9
All Chemistry Instruments	37	3.70	0.11	3.1	3.7	3.3 - 4.1	36	2.59	0.08	3.0	2.6	2.3 - 2.9

**Albumin (g/dL)****Specimen CH-15**

<b><u>Reagent/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	216	3.41	0.33	9.6	3.5	3.0 - 3.8
All Bromocresol Green Reagents	165	3.57	0.18	5.1	3.6	3.2 - 4.0
All Bromocresol Purple Reagents	51	2.90	0.09	3.0	2.9	2.6 - 3.2
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	2.8	2.5 - 3.2
All Chemistry Instruments	11	2.85	0.10	3.6	2.8	2.5 - 3.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	3.65	0.13	3.4	3.7	3.2 - 4.1
Beckman AU						
Beckman AU systems	34	3.57	0.07	2.0	3.6	3.2 - 4.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	18	3.53	0.08	2.4	3.5	3.1 - 3.9
Roche Integra						
Roche Integra	21	3.75	0.11	2.9	3.8	3.3 - 4.2
Siemens Healthcare						
Siemens Dimension	37	2.91	0.07	2.5	2.9	2.6 - 3.3
All Chemistry Instruments	38	2.91	0.07	2.5	2.9	2.6 - 3.3
VITROS						
VITROS 250,350,400 500,700,750,950	31	3.34	0.11	3.3	3.4	3.0 - 3.7
All Chemistry Instruments	37	3.34	0.10	3.1	3.3	3.0 - 3.7

**Bilirubin, Direct (mg/dL)**

<u>Reagent/Instrument</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	138	0.26	0.11	44.1	0.3	0.0 - 0.5	138	0.87	0.32	36.8	0.9	0.2 - 1.6
All Alfa Wassermann Reagents	17	0.35	0.06	18.0	0.4	0.2 - 0.5	17	1.12	0.14	12.8	1.2	0.8 - 1.5
All Roche Reagents	20	0.19	0.04	19.8	0.2	0.1 - 0.3	20	0.62	0.10	15.3	0.6	0.4 - 0.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	0.35	0.06	18.0	0.4	0.2 - 0.5	17	1.12	0.14	12.8	1.2	0.8 - 1.5
Beckman AU												
Beckman AU systems	25	0.29	0.06	21.9	0.3	0.1 - 0.5	25	0.91	0.15	15.9	0.9	0.6 - 1.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	0.30	0.06	21.1	0.3	0.1 - 0.5	11	1.05	0.17	16.1	1.1	0.7 - 1.4
Roche Integra												
Roche Integra	11	0.20	0.01	0.0	0.2	0.1 - 0.3	12	0.67	0.08	11.7	0.7	0.5 - 0.9
Siemens Healthcare												
Siemens Dimension	26	0.17	0.05	26.1	0.2	0.0 - 0.3	26	0.62	0.09	14.3	0.6	0.4 - 0.8
All Chemistry Instruments	28	0.18	0.04	25.2	0.2	0.0 - 0.3	28	0.63	0.09	14.8	0.6	0.4 - 0.9
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	17	0.24	0.20	84.3	0.3	0.0 - 0.7	17	0.88	0.52	59.1	1.1	0.0 - 2.0
All Chemistry Instruments	21	0.25	0.19	76.2	0.3	0.0 - 0.7	21	0.95	0.49	51.7	1.1	0.0 - 2.0

  

<u>Reagent/Instrument</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	138	0.78	0.28	36.3	0.8	0.2 - 1.4	138	0.48	0.19	39.2	0.5	0.1 - 0.9
All Alfa Wassermann Reagents	17	1.03	0.15	14.5	1.0	0.7 - 1.4	17	0.66	0.09	14.3	0.7	0.4 - 0.9
All Roche Reagents	20	0.56	0.09	16.0	0.6	0.3 - 0.8	20	0.33	0.06	17.3	0.3	0.2 - 0.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	1.03	0.15	14.5	1.0	0.7 - 1.4	17	0.66	0.09	14.3	0.7	0.4 - 0.9
Beckman AU												
Beckman AU systems	25	0.85	0.13	14.9	0.9	0.5 - 1.2	25	0.54	0.09	16.9	0.6	0.3 - 0.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	0.93	0.16	16.8	0.9	0.6 - 1.3	11	0.57	0.09	15.8	0.6	0.3 - 0.8
Roche Integra												
Roche Integra	12	0.61	0.07	11.0	0.6	0.4 - 0.8	12	0.36	0.05	14.4	0.4	0.2 - 0.5
Siemens Healthcare												
Siemens Dimension	26	0.57	0.08	13.6	0.6	0.4 - 0.8	26	0.35	0.06	16.8	0.3	0.2 - 0.5
All Chemistry Instruments	28	0.58	0.08	13.6	0.6	0.4 - 0.8	28	0.35	0.06	16.5	0.3	0.2 - 0.5
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	17	0.72	0.45	62.2	0.9	0.0 - 1.7	17	0.40	0.28	70.2	0.5	0.0 - 1.0
All Chemistry Instruments	21	0.76	0.41	54.2	0.9	0.0 - 1.6	21	0.42	0.27	63.9	0.5	0.0 - 1.0

**Bilirubin, Direct (mg/dL)****Specimen CH-15**

<b><u>Reagent/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	138	0.67	0.25	36.8	0.7	0.1 - 1.2
All Alfa Wassermann Reagents	17	0.91	0.11	12.6	0.9	0.6 - 1.2
All Roche Reagents	20	0.49	0.07	14.7	0.5	0.3 - 0.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	17	0.91	0.11	12.6	0.9	0.6 - 1.2
Beckman AU						
Beckman AU systems	25	0.74	0.11	15.1	0.8	0.5 - 1.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	0.81	0.14	17.0	0.8	0.5 - 1.1
Roche Integra						
Roche Integra	12	0.52	0.07	13.9	0.5	0.3 - 0.7
Siemens Healthcare						
Siemens Dimension	26	0.49	0.06	12.0	0.5	0.3 - 0.7
All Chemistry Instruments	28	0.50	0.06	12.8	0.5	0.3 - 0.7
VITROS-BuBc and Bc						
VITROS 250,350,400 500,700,750,950	17	0.61	0.40	66.1	0.8	0.0 - 1.5
All Chemistry Instruments	21	0.65	0.38	58.3	0.8	0.0 - 1.5

**Bilirubin, Total (mg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<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	231	0.69	0.12	16.9	0.7	0.2 - 1.1	234	3.14	0.40	12.6	3.2	2.5 - 3.8
All Alfa Wassermann Reagents	30	0.84	0.09	10.2	0.8	0.4 - 1.3	30	3.72	0.24	6.4	3.7	2.9 - 4.5
All Horiba Pentra Reagents	17	0.66	0.06	9.1	0.7	0.2 - 1.1	19	3.06	0.21	7.0	3.1	2.4 - 3.7
All Roche T. bili Special Reagents	23	0.61	0.05	7.5	0.6	0.2 - 1.1	23	2.91	0.17	6.0	2.9	2.3 - 3.5
Abaxis Piccolo												
Abaxis Piccolo - waived	21	0.74	0.07	9.1	0.7	0.3 - 1.2	21	2.65	0.27	10.3	2.6	2.1 - 3.2
All Chemistry Instruments	29	0.74	0.08	10.5	0.7	0.3 - 1.2	29	2.62	0.27	10.1	2.6	2.0 - 3.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	0.84	0.09	10.3	0.8	0.4 - 1.3	29	3.71	0.24	6.5	3.7	2.9 - 4.5
Beckman AU												
Beckman AU systems	33	0.75	0.07	8.8	0.8	0.3 - 1.2	33	3.32	0.22	6.8	3.3	2.6 - 4.0
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	0.63	0.14	22.5	0.7	0.2 - 1.1	10	2.99	0.38	12.7	3.1	2.3 - 3.6
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	0.66	0.06	9.1	0.7	0.2 - 1.1	19	3.06	0.21	7.0	3.1	2.4 - 3.7
Roche Integra-T. bili Gen.3												
Roche Integra	12	0.62	0.04	6.3	0.6	0.2 - 1.1	12	2.86	0.13	4.6	2.9	2.2 - 3.5
All Chemistry Instruments	14	0.61	0.04	5.9	0.6	0.2 - 1.1	14	2.86	0.13	4.5	2.9	2.2 - 3.5
Siemens Healthcare												
Siemens Dimension	37	0.62	0.08	12.8	0.6	0.2 - 1.1	37	3.06	0.23	7.6	3.1	2.4 - 3.7
All Chemistry Instruments	38	0.63	0.08	12.7	0.6	0.2 - 1.1	38	3.07	0.23	7.6	3.1	2.4 - 3.7
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	31	0.66	0.14	20.8	0.7	0.2 - 1.1	31	3.35	0.26	7.9	3.4	2.6 - 4.1
All Chemistry Instruments	36	0.65	0.14	21.1	0.7	0.2 - 1.1	36	3.31	0.26	7.8	3.3	2.6 - 4.0

**Bilirubin, Total (mg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<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	214	2.73	0.30	11.2	2.7	2.1 - 3.3	216	1.53	0.19	12.5	1.5	1.1 - 2.0
All Alfa Wassermann Reagents	30	3.20	0.20	6.3	3.2	2.5 - 3.9	30	1.82	0.11	5.9	1.8	1.4 - 2.3
All Horiba Pentra Reagents	19	2.63	0.16	6.2	2.7	2.1 - 3.2	19	1.47	0.09	6.3	1.5	1.0 - 1.9
All Roche T. bili Special Reagents	23	2.49	0.15	6.0	2.5	1.9 - 3.0	23	1.40	0.08	5.9	1.4	0.9 - 1.8
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	2.6	1.8 - 2.8	4	-	-	-	1.5	0.9 - 1.7
All Chemistry Instruments	11	2.29	0.29	12.9	2.2	1.8 - 2.8	11	1.30	0.15	11.9	1.2	0.9 - 1.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	3.20	0.21	6.4	3.2	2.5 - 3.9	29	1.82	0.11	5.9	1.8	1.4 - 2.3
Beckman AU												
Beckman AU systems	33	2.84	0.17	6.0	2.9	2.2 - 3.5	33	1.62	0.11	6.6	1.6	1.2 - 2.1
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	2.56	0.31	12.0	2.6	2.0 - 3.1	10	1.40	0.18	13.0	1.5	1.0 - 1.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	2.63	0.16	6.2	2.7	2.1 - 3.2	19	1.47	0.09	6.3	1.5	1.0 - 1.9
Roche Integra-T. bili Gen.3												
Roche Integra	12	2.44	0.12	4.8	2.5	1.9 - 3.0	12	1.38	0.07	5.2	1.4	0.9 - 1.8
All Chemistry Instruments	14	2.44	0.11	4.5	2.5	1.9 - 3.0	14	1.38	0.07	5.1	1.4	0.9 - 1.8
Siemens Healthcare												
Siemens Dimension	37	2.65	0.20	7.6	2.7	2.1 - 3.2	37	1.45	0.12	8.5	1.5	1.0 - 1.9
All Chemistry Instruments	38	2.65	0.20	7.5	2.7	2.1 - 3.2	38	1.45	0.12	8.4	1.5	1.0 - 1.9
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	31	2.85	0.23	7.9	2.9	2.2 - 3.5	31	1.58	0.15	9.4	1.6	1.1 - 2.0
All Chemistry Instruments	36	2.83	0.22	7.9	2.8	2.2 - 3.4	36	1.56	0.15	9.3	1.6	1.1 - 2.0

**Bilirubin, Total (mg/dL)****Specimen CH-15**

<b><u>Reagent/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	216	2.32	0.27	11.6	2.3	1.8 - 2.8
All Alfa Wassermann Reagents	30	2.72	0.17	6.2	2.7	2.1 - 3.3
All Horiba Pentra Reagents	19	2.24	0.12	5.4	2.2	1.7 - 2.7
All Roche T. bili Special Reagents	23	2.11	0.11	5.3	2.1	1.6 - 2.6
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	2.1	1.5 - 2.4
All Chemistry Instruments	11	1.95	0.29	14.7	1.8	1.5 - 2.4
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	29	2.72	0.17	6.3	2.7	2.1 - 3.3
Beckman AU						
Beckman AU systems	33	2.42	0.14	5.7	2.5	1.9 - 3.0
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	2.15	0.24	11.0	2.2	1.7 - 2.6
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	2.24	0.12	5.4	2.2	1.7 - 2.7
Roche Integra-T. bili Gen.3						
Roche Integra	12	2.08	0.08	3.6	2.1	1.6 - 2.5
All Chemistry Instruments	14	2.08	0.07	3.4	2.1	1.6 - 2.5
Siemens Healthcare						
Siemens Dimension	37	2.24	0.16	7.2	2.3	1.7 - 2.7
All Chemistry Instruments	38	2.24	0.16	7.1	2.3	1.7 - 2.7
VITROS - TBIL						
VITROS 250,350,400 500,700,750,950	31	2.43	0.19	7.9	2.5	1.9 - 3.0
All Chemistry Instruments	36	2.41	0.19	7.8	2.4	1.9 - 2.9



**Calcium (mg/dL)**

<u>Reagent/Instrument</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</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	234	7.61	0.25	3.3	7.6	6.6 - 8.7	235	11.51	0.32	2.8	11.5	10.5 - 12.6
All Arsenazo Methods	117	7.67	0.29	3.7	7.6	6.6 - 8.7	116	11.52	0.30	2.6	11.5	10.5 - 12.6
All CPC Methods	118	7.57	0.22	2.9	7.6	6.5 - 8.6	118	11.49	0.34	3.0	11.5	10.4 - 12.5
Abaxis Piccolo												
Abaxis Piccolo - waived	22	7.81	0.18	2.3	7.9	6.8 - 8.9	22	11.54	0.30	2.6	11.6	10.5 - 12.6
All Chemistry Instruments	29	7.77	0.19	2.5	7.8	6.7 - 8.8	29	11.52	0.28	2.5	11.5	10.5 - 12.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	7.87	0.25	3.1	7.8	6.8 - 8.9	31	11.67	0.28	2.4	11.7	10.6 - 12.7
Beckman AU												
Beckman AU systems	35	7.54	0.20	2.6	7.6	6.5 - 8.6	35	11.49	0.28	2.5	11.6	10.4 - 12.5
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	7.24	0.19	2.6	7.2	6.2 - 8.3	10	11.11	0.27	2.4	11.1	10.1 - 12.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	7.62	0.20	2.6	7.6	6.6 - 8.7	15	11.72	0.27	2.3	11.7	10.7 - 12.8
Roche Integra												
Roche Integra	21	7.66	0.22	2.8	7.6	6.6 - 8.7	21	11.62	0.32	2.8	11.6	10.6 - 12.7
Siemens Healthcare												
Siemens Dimension	36	7.49	0.21	2.8	7.5	6.4 - 8.5	36	11.26	0.28	2.5	11.3	10.2 - 12.3
All Chemistry Instruments	38	7.48	0.21	2.8	7.5	6.4 - 8.5	38	11.25	0.28	2.5	11.2	10.2 - 12.3
VITROS												
VITROS 250,350,400 500,700,750,950	30	7.51	0.15	2.0	7.5	6.5 - 8.6	30	11.46	0.21	1.8	11.5	10.4 - 12.5
All Chemistry Instruments	36	7.51	0.15	2.1	7.5	6.5 - 8.6	36	11.46	0.22	1.9	11.5	10.4 - 12.5

**Calcium (mg/dL)**

<u>Reagent/Instrument</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	215	10.68	0.30	2.8	10.7	9.6 - 11.7	217	8.87	0.30	3.3	8.9	7.8 - 9.9
All Arsenazo Methods	97	10.74	0.29	2.7	10.8	9.7 - 11.8	98	8.96	0.33	3.7	9.0	7.9 - 10.0
All CPC Methods	118	10.62	0.31	2.9	10.6	9.6 - 11.7	118	8.80	0.25	2.8	8.8	7.8 - 9.8
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	10.7	9.6 - 11.7	4	-	-	-	9.1	7.9 - 10.0
All Chemistry Instruments	10	10.64	0.17	1.6	10.6	9.6 - 11.7	10	8.99	0.15	1.7	9.0	7.9 - 10.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	10.95	0.27	2.5	11.0	9.9 - 12.0	31	9.25	0.19	2.1	9.3	8.2 - 10.3
Beckman AU												
Beckman AU systems	35	10.61	0.26	2.4	10.7	9.6 - 11.7	35	8.77	0.20	2.3	8.8	7.7 - 9.8
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	10.38	0.25	2.4	10.4	9.3 - 11.4	10	8.47	0.23	2.7	8.4	7.4 - 9.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	10.83	0.29	2.7	10.8	9.8 - 11.9	15	8.93	0.24	2.7	8.9	7.9 - 10.0
Roche Integra												
Roche Integra	21	10.76	0.28	2.6	10.7	9.7 - 11.8	21	8.90	0.25	2.8	8.9	7.9 - 9.9
Siemens Healthcare												
Siemens Dimension	34	10.40	0.17	1.6	10.4	9.4 - 11.4	36	8.68	0.23	2.6	8.7	7.6 - 9.7
All Chemistry Instruments	36	10.39	0.17	1.6	10.4	9.3 - 11.4	38	8.67	0.23	2.6	8.7	7.6 - 9.7
VITROS												
VITROS 250,350,400 500,700,750,950	30	10.67	0.19	1.8	10.7	9.6 - 11.7	30	8.83	0.20	2.3	8.9	7.8 - 9.9
All Chemistry Instruments	36	10.67	0.20	1.9	10.7	9.6 - 11.7	36	8.84	0.21	2.4	8.9	7.8 - 9.9

**Calcium (mg/dL)****Specimen CH-15**

<b><u>Reagent/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	216	10.05	0.30	2.9	10.1	9.0 - 11.1
All Arsenazo Methods	98	10.14	0.29	2.8	10.1	9.1 - 11.2
All CPC Methods	117	9.98	0.28	2.8	10.0	8.9 - 11.0
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	10.1	9.1 - 11.2
All Chemistry Instruments	10	10.11	0.11	1.1	10.1	9.1 - 11.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	31	10.35	0.20	1.9	10.4	9.3 - 11.4
Beckman AU						
Beckman AU systems	35	9.97	0.26	2.7	10.0	8.9 - 11.0
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	9.68	0.20	2.1	9.7	8.6 - 10.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	15	10.12	0.24	2.4	10.1	9.1 - 11.2
Roche Integra						
Roche Integra	21	10.09	0.25	2.5	10.1	9.0 - 11.1
Siemens Healthcare						
Siemens Dimension	36	9.80	0.29	2.9	9.8	8.8 - 10.9
All Chemistry Instruments	38	9.79	0.28	2.9	9.8	8.7 - 10.8
VITROS						
VITROS 250,350,400 500,700,750,950	30	10.05	0.18	1.8	10.1	9.0 - 11.1
All Chemistry Instruments	36	10.06	0.19	1.9	10.1	9.0 - 11.1

**Creatinine (mg/dL)**

<u>Reagent/Instrument</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	234	1.12	0.10	8.8	1.1	0.8 - 1.5	234	3.91	0.21	5.3	3.9	3.3 - 4.6
All Alfa Wassermann Reagents	30	1.22	0.06	4.5	1.2	0.9 - 1.6	30	3.91	0.15	3.9	3.9	3.3 - 4.5
All Roche Reagents	29	1.08	0.08	7.4	1.1	0.7 - 1.4	29	3.81	0.23	6.1	3.8	3.2 - 4.4
All VITROS Reagents	37	1.04	0.05	5.3	1.0	0.7 - 1.4	37	3.73	0.11	3.0	3.7	3.1 - 4.3
Abaxis Piccolo												
Abaxis Piccolo - waived	22	1.18	0.15	12.4	1.2	0.8 - 1.5	22	4.09	0.13	3.3	4.1	3.4 - 4.8
All Chemistry Instruments	29	1.17	0.14	12.0	1.2	0.8 - 1.5	29	4.08	0.14	3.4	4.1	3.4 - 4.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	1.22	0.05	4.4	1.2	0.9 - 1.6	29	3.90	0.15	3.9	3.9	3.3 - 4.5
Beckman AU												
Beckman AU systems	35	1.07	0.05	4.7	1.1	0.7 - 1.4	34	3.92	0.13	3.2	3.9	3.3 - 4.6
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	1.12	0.06	5.6	1.1	0.8 - 1.5	10	3.72	0.10	2.8	3.7	3.1 - 4.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	1.02	0.06	5.5	1.0	0.7 - 1.4	18	3.83	0.19	5.1	3.8	3.2 - 4.5
Roche Integra												
Roche Integra	21	1.07	0.07	6.7	1.1	0.7 - 1.4	21	3.75	0.19	5.1	3.7	3.1 - 4.4
Siemens Healthcare												
Siemens Dimension	36	1.19	0.04	3.6	1.2	0.8 - 1.5	36	4.10	0.11	2.6	4.1	3.4 - 4.8
All Chemistry Instruments	37	1.18	0.04	3.7	1.2	0.8 - 1.5	38	4.11	0.12	2.8	4.1	3.4 - 4.8
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	23	1.03	0.05	4.7	1.0	0.7 - 1.4	23	3.70	0.12	3.2	3.7	3.1 - 4.3
All Chemistry Instruments	29	1.04	0.06	5.5	1.0	0.7 - 1.4	29	3.72	0.12	3.2	3.7	3.1 - 4.3

**Creatinine (mg/dL)**

<u>Reagent/Instrument</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	215	3.30	0.15	4.6	3.3	2.8 - 3.8	215	1.99	0.10	5.1	2.0	1.6 - 2.3
All Alfa Wassermann Reagents	30	3.36	0.12	3.5	3.3	2.8 - 3.9	30	2.11	0.07	3.1	2.1	1.7 - 2.5
All Roche Reagents	29	3.22	0.17	5.4	3.2	2.7 - 3.8	28	1.96	0.12	5.9	2.0	1.6 - 2.3
All VITROS Reagents	37	3.18	0.09	2.7	3.2	2.7 - 3.7	37	1.92	0.08	4.0	1.9	1.6 - 2.3
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	3.5	2.8 - 3.9	4	-	-	-	1.9	1.6 - 2.3
All Chemistry Instruments	10	3.38	0.15	4.4	3.4	2.8 - 3.9	10	1.99	0.12	6.0	2.0	1.6 - 2.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	3.35	0.11	3.3	3.3	2.8 - 3.9	29	2.11	0.07	3.1	2.1	1.7 - 2.5
Beckman AU												
Beckman AU systems	33	3.31	0.08	2.4	3.3	2.8 - 3.9	35	1.98	0.05	2.8	2.0	1.6 - 2.3
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	3.20	0.12	3.6	3.2	2.7 - 3.7	10	1.96	0.08	4.3	2.0	1.6 - 2.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	3.22	0.15	4.7	3.2	2.7 - 3.7	18	1.93	0.10	5.3	1.9	1.6 - 2.3
Roche Integra												
Roche Integra	21	3.19	0.14	4.5	3.2	2.7 - 3.7	21	1.94	0.11	5.5	1.9	1.6 - 2.3
Siemens Healthcare												
Siemens Dimension	35	3.43	0.07	2.0	3.4	2.9 - 4.0	36	2.02	0.06	3.2	2.0	1.7 - 2.4
All Chemistry Instruments	38	3.44	0.09	2.6	3.4	2.9 - 4.0	38	2.02	0.06	3.1	2.0	1.7 - 2.4
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	23	3.15	0.08	2.5	3.2	2.6 - 3.7	23	1.89	0.06	3.3	1.9	1.5 - 2.2
All Chemistry Instruments	29	3.17	0.08	2.7	3.2	2.6 - 3.7	29	1.91	0.08	4.0	1.9	1.6 - 2.3

**Creatinine (mg/dL)****Specimen CH-15**

<b><u>Reagent/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	215	2.86	0.14	5.0	2.9	2.4 - 3.3
All Alfa Wassermann Reagents	29	2.93	0.14	4.7	2.9	2.4 - 3.4
All Roche Reagents	29	2.79	0.15	5.4	2.8	2.3 - 3.3
All VITROS Reagents	37	2.76	0.09	3.3	2.8	2.3 - 3.2
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	2.9	2.4 - 3.4
All Chemistry Instruments	10	2.90	0.09	3.3	2.9	2.4 - 3.4
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	28	2.92	0.13	4.5	2.9	2.4 - 3.4
Beckman AU						
Beckman AU systems	35	2.86	0.07	2.6	2.9	2.4 - 3.3
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	2.73	0.12	4.2	2.8	2.3 - 3.2
Horiba ABX Pentra						
Horiba ABX Pentra 400	18	2.79	0.15	5.3	2.8	2.3 - 3.3
Roche Integra						
Roche Integra	21	2.75	0.12	4.2	2.8	2.3 - 3.2
Siemens Healthcare						
Siemens Dimension	36	2.98	0.08	2.6	3.0	2.5 - 3.5
All Chemistry Instruments	38	2.99	0.08	2.7	3.0	2.5 - 3.5
VITROS - CREA						
VITROS 250,350,400 500,700,750,950	23	2.72	0.08	2.9	2.7	2.3 - 3.2
All Chemistry Instruments	29	2.75	0.09	3.3	2.8	2.3 - 3.2

**Glucose (mg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<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	249	65.5	3.5	5.4	66	58 - 73	245	193.3	6.9	3.6	193	173 - 213
All Alfa Wassermann Reagents	34	69.3	1.5	2.1	69	62 - 77	33	198.6	3.6	1.8	199	178 - 219
All Horiba Pentra Reagents	18	65.8	3.0	4.5	65	59 - 73	18	195.3	7.8	4.0	195	175 - 215
All Roche Reagents	29	65.7	1.9	2.9	66	59 - 73	29	194.3	5.7	2.9	194	174 - 214
Abaxis Piccolo												
Abaxis Piccolo - waived	20	66.3	0.9	1.3	66	59 - 73	21	189.4	1.7	0.9	189	170 - 209
All Chemistry Instruments	27	66.2	0.8	1.3	66	59 - 73	28	189.3	1.8	1.0	189	170 - 209
Alere Cholestech LDX												
Alere Cholestech LDX - waived	10	61.4	2.5	4.1	62	55 - 68	10	184.5	11.8	6.4	185	166 - 203
All Chemistry Instruments	11	61.6	2.5	4.1	62	55 - 68	11	184.9	11.3	6.1	185	166 - 204
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	33	69.2	1.5	2.1	69	62 - 77	32	198.5	3.6	1.8	199	178 - 219
Beckman AU												
Beckman AU systems	35	66.2	1.9	2.9	67	59 - 73	35	196.5	5.3	2.7	197	176 - 217
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	69.7	3.0	4.3	69	62 - 77	10	203.8	7.2	3.6	204	183 - 225
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	65.8	3.0	4.5	65	59 - 73	18	195.3	7.8	4.0	195	175 - 215
Roche Integra												
Roche Integra	21	66.1	1.9	2.9	66	59 - 73	21	195.1	6.0	3.1	194	175 - 215
Siemens Healthcare												
Siemens Dimension	36	66.2	1.9	2.8	66	59 - 73	36	194.4	4.8	2.5	194	174 - 214
All Chemistry Instruments	38	66.0	2.0	3.0	66	59 - 73	38	194.2	4.7	2.4	194	174 - 214
VITROS												
VITROS 250,350,400 500,700,750,950	31	59.5	2.3	3.9	59	53 - 66	31	184.4	5.0	2.7	185	165 - 203
All Chemistry Instruments	37	59.5	2.2	3.6	60	53 - 66	36	184.7	4.0	2.2	185	166 - 204

**Glucose (mg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<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	221	165.0	6.9	4.2	165	148 - 182	222	105.3	4.8	4.5	106	94 - 116
All Alfa Wassermann Reagents	34	170.2	3.8	2.2	170	153 - 188	33	109.7	2.3	2.1	110	98 - 121
All Horiba Pentra Reagents	18	165.3	6.5	3.9	164	148 - 182	18	105.8	4.1	3.8	105	95 - 117
All Roche Reagents	29	165.7	4.8	2.9	166	149 - 183	29	105.5	3.2	3.0	106	94 - 117
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	163	145 - 178	4	-	-	-	104	93 - 115
All Chemistry Instruments	10	161.2	2.0	1.3	161	145 - 178	10	104.0	1.5	1.4	104	93 - 115
Alere Cholestech LDX												
Alere Cholestech LDX - waived	1	-	-	-	143	148 - 182	1	-	-	-	95	94 - 116
All Chemistry Instruments	2	-	-	-	149	134 - 164	2	-	-	-	94	84 - 104
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	33	170.2	3.8	2.2	170	153 - 188	32	109.6	2.3	2.1	110	98 - 121
Beckman AU												
Beckman AU systems	35	167.5	4.2	2.5	168	150 - 185	35	106.5	3.0	2.8	106	95 - 118
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	175.1	6.0	3.4	176	157 - 193	10	111.2	4.3	3.9	111	100 - 123
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	165.3	6.5	3.9	164	148 - 182	18	105.8	4.1	3.8	105	95 - 117
Roche Integra												
Roche Integra	21	166.1	4.8	2.9	166	149 - 183	21	106.3	3.2	3.1	106	95 - 117
Siemens Healthcare												
Siemens Dimension	36	165.3	4.5	2.7	166	148 - 182	36	106.0	2.6	2.4	106	95 - 117
All Chemistry Instruments	38	165.1	4.6	2.8	165	148 - 182	38	105.8	2.7	2.5	106	95 - 117
VITROS												
VITROS 250,350,400 500,700,750,950	31	155.3	4.3	2.8	156	139 - 171	31	98.4	3.2	3.3	99	88 - 109
All Chemistry Instruments	37	155.2	4.1	2.6	156	139 - 171	37	98.5	3.1	3.2	99	88 - 109



**Glucose (mg/dL)****Specimen CH-15**

<b><u>Reagent/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	219	144.8	6.0	4.2	145	130 - 160
All Alfa Wassermann Reagents	33	149.5	3.5	2.3	150	134 - 165
All Horiba Pentra Reagents	18	144.9	5.8	4.0	144	130 - 160
All Roche Reagents	29	145.7	3.7	2.6	146	131 - 161
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	142	126 - 156
All Chemistry Instruments	10	141.1	1.7	1.2	141	126 - 156
Alere Cholestech LDX						
Alere Cholestech LDX - waived	1	-	-	-	125	130 - 160
All Chemistry Instruments	2	-	-	-	136	122 - 150
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	32	149.4	3.5	2.3	150	134 - 165
Beckman AU						
Beckman AU systems	35	146.6	3.8	2.6	147	131 - 162
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	153.7	5.1	3.3	154	138 - 170
Horiba ABX Pentra						
Horiba ABX Pentra 400	18	144.9	5.8	4.0	144	130 - 160
Roche Integra						
Roche Integra	21	146.5	3.9	2.6	147	131 - 162
Siemens Healthcare						
Siemens Dimension	36	145.4	3.4	2.4	145	130 - 160
All Chemistry Instruments	38	145.2	3.5	2.4	145	130 - 160
VITROS						
VITROS 250,350,400 500,700,750,950	31	135.3	4.1	3.0	136	121 - 149
All Chemistry Instruments	37	135.5	3.9	2.9	136	121 - 150

**Iron (µg/dL)**

<u>Reagent/Instrument</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	84	48.7	3.9	7.9	49	38 - 59	86	172.6	14.0	8.1	173	138 - 208
All Roche Reagents	12	52.6	2.6	5.0	53	42 - 64	12	177.1	5.5	3.1	177	141 - 213
Beckman AU												
Beckman AU systems	19	51.8	1.6	3.1	52	41 - 63	21	183.6	6.7	3.6	185	146 - 221
Siemens Healthcare												
Siemens Dimension	20	47.7	1.5	3.1	48	38 - 58	19	163.2	2.0	1.2	163	130 - 196
All Chemistry Instruments	21	47.8	1.5	3.1	48	38 - 58	20	163.2	2.0	1.2	163	130 - 196
VITROS												
All Chemistry Instruments	10	44.9	5.2	11.6	45	35 - 54	10	192.5	10.6	5.5	193	154 - 231
	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
All Method	86	144.3	10.8	7.5	144	115 - 174	86	86.3	6.0	6.9	86	69 - 104
All Roche Reagents	12	148.9	4.6	3.1	147	119 - 179	12	91.4	3.1	3.4	92	73 - 110
Beckman AU												
Beckman AU systems	21	152.2	5.3	3.5	154	121 - 183	20	91.9	2.9	3.2	93	73 - 111
Siemens Healthcare												
Siemens Dimension	19	137.5	1.7	1.2	138	110 - 166	20	83.6	1.6	1.9	83	66 - 101
All Chemistry Instruments	20	137.6	1.7	1.2	138	110 - 166	21	83.6	1.5	1.8	83	66 - 101
VITROS												
All Chemistry Instruments	10	159.2	8.2	5.2	159	127 - 192	10	88.3	3.6	4.1	88	70 - 106
	<b>Specimen CH-15</b>											
All Method	85	124.8	9.4	7.5	124	99 - 150						
All Roche Reagents	12	128.9	4.0	3.1	128	103 - 155						
Beckman AU												
Beckman AU systems	21	131.8	6.3	4.8	133	105 - 159						
Siemens Healthcare												
Siemens Dimension	20	119.3	1.8	1.5	119	95 - 144						
All Chemistry Instruments	21	119.3	1.8	1.5	119	95 - 144						
VITROS												
All Chemistry Instruments	10	135.5	8.9	6.6	135	108 - 163						

## Lactate (Lactic Acid) (mmol/L)

<u>Method</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</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	0.78	0.08	10.7	0.8	0.5 - 1.1	5	5.62	0.19	3.4	5.6	5.0 - 6.2
<u>Method</u>	<u>Specimen CH-13</u>						<u>Specimen CH-14</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	4.56	0.21	4.5	4.6	3.9 - 5.2	5	2.26	0.09	4.0	2.2	1.9 - 2.6
<u>Method</u>	<u>Specimen CH-15</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	3.76	0.21	5.5	3.8	3.1 - 4.4						

## Magnesium (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</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	106	1.60	0.09	5.6	1.6	1.1 - 2.0	110	3.70	0.17	4.7	3.7	2.7 - 4.7
All Horiba Pentra Reagents	13	1.63	0.13	8.1	1.6	1.2 - 2.1	13	3.61	0.14	3.8	3.6	2.7 - 4.6
All Roche Reagents	22	1.58	0.05	3.2	1.6	1.1 - 2.0	22	3.63	0.16	4.4	3.7	2.7 - 4.6
Beckman AU												
Beckman AU systems	22	1.59	0.07	4.3	1.6	1.1 - 2.0	22	3.73	0.12	3.3	3.7	2.7 - 4.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	1.63	0.13	8.1	1.6	1.2 - 2.1	13	3.61	0.14	3.8	3.6	2.7 - 4.6
Roche Integra												
Roche Integra	15	1.57	0.06	3.8	1.6	1.1 - 2.0	15	3.57	0.14	3.9	3.5	2.6 - 4.5
Siemens Healthcare												
Siemens Dimension	18	1.57	0.07	4.4	1.6	1.1 - 2.0	19	3.76	0.09	2.4	3.8	2.8 - 4.7
All Chemistry Instruments	19	1.57	0.07	4.3	1.6	1.1 - 2.0	20	3.77	0.09	2.5	3.8	2.8 - 4.8
VITROS												
VITROS 250,350,400 500,700,750,950	15	1.63	0.09	5.5	1.6	1.2 - 2.1	15	3.84	0.13	3.4	3.9	2.8 - 4.8
All Chemistry Instruments	19	1.63	0.08	5.0	1.6	1.2 - 2.1	19	3.83	0.12	3.1	3.8	2.8 - 4.8

**Magnesium (mg/dL)**

<u>Reagent/Instrument</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	110	3.24	0.16	4.8	3.3	2.4 - 4.1	108	2.26	0.12	5.3	2.3	1.6 - 2.9
All Horiba Pentra Reagents	13	3.23	0.16	5.0	3.2	2.4 - 4.1	13	2.27	0.18	8.1	2.3	1.7 - 2.9
All Roche Reagents	22	3.19	0.11	3.4	3.2	2.3 - 4.0	22	2.22	0.09	4.1	2.2	1.6 - 2.8
Beckman AU												
Beckman AU systems	23	3.25	0.10	3.2	3.3	2.4 - 4.1	22	2.25	0.07	3.0	2.3	1.6 - 2.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	3.23	0.16	5.0	3.2	2.4 - 4.1	13	2.27	0.18	8.1	2.3	1.7 - 2.9
Roche Integra												
Roche Integra	15	3.15	0.11	3.4	3.1	2.3 - 4.0	15	2.19	0.09	4.2	2.2	1.6 - 2.8
Siemens Healthcare												
Siemens Dimension	19	3.25	0.15	4.7	3.3	2.4 - 4.1	19	2.24	0.09	4.0	2.2	1.6 - 2.9
All Chemistry Instruments	20	3.26	0.15	4.7	3.3	2.4 - 4.1	20	2.25	0.09	4.2	2.3	1.6 - 2.9
VITROS												
VITROS 250,350,400 500,700,750,950	15	3.39	0.13	3.8	3.4	2.5 - 4.3	15	2.35	0.09	3.9	2.4	1.7 - 3.0
All Chemistry Instruments	19	3.37	0.12	3.7	3.4	2.5 - 4.3	19	2.34	0.09	3.8	2.3	1.7 - 3.0
<b>Specimen CH-15</b>												
All Method	109	2.90	0.13	4.5	2.9	2.1 - 3.7						
All Horiba Pentra Reagents	13	2.82	0.14	4.8	2.8	2.1 - 3.6						
All Roche Reagents	22	2.85	0.11	3.7	2.8	2.1 - 3.6						
Beckman AU												
Beckman AU systems	23	2.90	0.10	3.6	2.9	2.1 - 3.7						
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	2.82	0.14	4.8	2.8	2.1 - 3.6						
Roche Integra												
Roche Integra	15	2.81	0.09	3.1	2.8	2.1 - 3.6						
Siemens Healthcare												
Siemens Dimension	19	2.90	0.14	4.7	2.9	2.1 - 3.7						
All Chemistry Instruments	20	2.91	0.14	4.7	2.9	2.1 - 3.7						
VITROS												
VITROS 250,350,400 500,700,750,950	15	3.03	0.10	3.5	3.1	2.2 - 3.8						
All Chemistry Instruments	19	3.03	0.09	3.1	3.0	2.2 - 3.8						

**Phosphorus (mg/dL)**

<u>Reagent/Instrument</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	2.67	0.16	6.1	2.7	2.3 - 3.0	85	5.89	0.31	5.3	5.8	5.2 - 6.6
All Alfa Wassermann Reagents	8	2.79	0.11	4.0	2.8	2.4 - 3.1	8	5.79	0.34	5.8	5.8	5.1 - 6.5
All Roche Reagents	15	2.57	0.09	3.5	2.6	2.2 - 2.9	15	5.80	0.23	4.0	5.8	5.1 - 6.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	8	2.79	0.11	4.0	2.8	2.4 - 3.1	8	5.79	0.34	5.8	5.8	5.1 - 6.5
Beckman AU												
Beckman AU systems	21	2.60	0.15	5.8	2.6	2.3 - 2.9	21	5.91	0.35	5.9	5.9	5.2 - 6.6
Horiba ABX Pentra												
Horiba ABX Pentra 400	6	2.80	0.20	7.1	2.8	2.5 - 3.1	7	6.31	0.31	4.9	6.3	5.6 - 7.0
Roche Integra												
Roche Integra	11	2.54	0.08	3.2	2.5	2.2 - 2.9	11	5.71	0.16	2.9	5.7	5.0 - 6.4
Siemens Healthcare												
Siemens Dimension	14	2.71	0.16	5.9	2.7	2.4 - 3.1	14	5.97	0.32	5.4	5.9	5.3 - 6.7
VITROS												
VITROS 250,350,400 500,700,750,950	9	2.78	0.13	4.7	2.7	2.4 - 3.1	9	5.78	0.24	4.1	5.7	5.1 - 6.4
VITROS 5600	5	2.78	0.11	3.9	2.8	2.4 - 3.1	5	6.06	0.25	4.1	6.2	5.4 - 6.8
All Chemistry Instruments	14	2.78	0.12	4.3	2.8	2.4 - 3.1	14	5.88	0.27	4.6	5.8	5.2 - 6.6
<b>Specimen CH-13</b>												
All Method	86	5.13	0.26	5.2	5.1	4.5 - 5.7	85	3.68	0.18	5.0	3.7	3.2 - 4.1
All Alfa Wassermann Reagents	8	5.11	0.21	4.1	5.1	4.5 - 5.7	8	3.71	0.17	4.7	3.7	3.3 - 4.2
All Roche Reagents	15	5.04	0.16	3.2	5.0	4.5 - 5.6	15	3.62	0.16	4.3	3.6	3.2 - 4.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	8	5.11	0.21	4.1	5.1	4.5 - 5.7	8	3.71	0.17	4.7	3.7	3.3 - 4.2
Beckman AU												
Beckman AU systems	21	5.12	0.31	6.0	5.0	4.5 - 5.7	21	3.66	0.19	5.3	3.7	3.2 - 4.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	7	5.43	0.26	4.8	5.4	4.8 - 6.1	7	3.91	0.21	5.4	3.9	3.4 - 4.4
Roche Integra												
Roche Integra	11	4.97	0.11	2.2	5.0	4.4 - 5.6	11	3.58	0.14	3.9	3.5	3.1 - 4.0
Siemens Healthcare												
Siemens Dimension	14	5.20	0.24	4.7	5.1	4.6 - 5.8	14	3.71	0.17	4.5	3.6	3.3 - 4.2
VITROS												
VITROS 250,350,400 500,700,750,950	9	5.06	0.23	4.5	5.0	4.5 - 5.6	9	3.68	0.14	3.8	3.7	3.2 - 4.1
VITROS 5600	5	5.26	0.25	4.8	5.4	4.6 - 5.9	5	3.80	0.23	6.2	3.9	3.3 - 4.3
All Chemistry Instruments	14	5.13	0.25	4.9	5.1	4.5 - 5.7	14	3.72	0.18	4.9	3.7	3.3 - 4.2
<b>Specimen CH-14</b>												

**Phosphorus (mg/dL)****Specimen CH-15**

<b><u>Reagent/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	84	4.66	0.25	5.4	4.6	4.1 - 5.2
All Alfa Wassermann Reagents	8	4.68	0.24	5.2	4.6	4.1 - 5.2
All Roche Reagents	15	4.57	0.17	3.8	4.5	4.0 - 5.1
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	8	4.68	0.24	5.2	4.6	4.1 - 5.2
Beckman AU						
Beckman AU systems	21	4.64	0.29	6.2	4.7	4.1 - 5.2
Horiba ABX Pentra						
Horiba ABX Pentra 400	7	5.11	0.31	6.1	5.0	4.5 - 5.7
Roche Integra						
Roche Integra	11	4.50	0.11	2.4	4.5	4.0 - 5.0
Siemens Healthcare						
Siemens Dimension	14	4.74	0.25	5.2	4.7	4.2 - 5.3
VITROS						
VITROS 250,350,400 500,700,750,950	9	4.60	0.24	5.2	4.5	4.1 - 5.1
VITROS 5600	5	4.78	0.22	4.5	4.9	4.2 - 5.3
All Chemistry Instruments	14	4.66	0.24	5.2	4.6	4.1 - 5.2

**Protein, Total (g/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<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	231	3.16	0.12	3.9	3.2	2.8 - 3.5	230	7.20	0.23	3.2	7.2	6.4 - 8.0
All Alfa Wassermann Reagents	29	3.17	0.09	3.0	3.2	2.8 - 3.5	30	7.34	0.17	2.3	7.3	6.6 - 8.1
All Horiba Pentra Reagents	19	3.12	0.08	2.5	3.1	2.8 - 3.5	19	7.12	0.16	2.2	7.1	6.4 - 7.9
All Roche Reagents	29	3.15	0.11	3.4	3.2	2.8 - 3.5	29	7.17	0.22	3.0	7.1	6.4 - 7.9
Abaxis Piccolo												
Abaxis Piccolo - waived	21	3.27	0.07	2.2	3.3	2.9 - 3.6	21	7.24	0.12	1.7	7.2	6.5 - 8.0
All Chemistry Instruments	29	3.27	0.07	2.2	3.3	2.9 - 3.6	29	7.23	0.12	1.7	7.2	6.5 - 8.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	28	3.17	0.09	3.0	3.2	2.8 - 3.5	29	7.33	0.17	2.4	7.3	6.6 - 8.1
Beckman AU												
Beckman AU systems	33	3.05	0.06	2.0	3.1	2.7 - 3.4	34	7.06	0.13	1.8	7.1	6.3 - 7.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	3.12	0.08	2.5	3.1	2.8 - 3.5	19	7.12	0.16	2.2	7.1	6.4 - 7.9
Roche Integra												
Roche Integra	21	3.12	0.10	3.3	3.1	2.8 - 3.5	21	7.11	0.21	2.9	7.1	6.3 - 7.9
Siemens Healthcare												
Siemens Dimension	36	3.24	0.08	2.5	3.2	2.9 - 3.6	36	7.46	0.15	2.0	7.5	6.7 - 8.3
All Chemistry Instruments	37	3.24	0.08	2.4	3.2	2.9 - 3.6	37	7.46	0.14	1.9	7.5	6.7 - 8.3
VITROS												
VITROS 250,350,400 500,700,750,950	31	3.16	0.12	3.9	3.2	2.8 - 3.5	29	6.95	0.15	2.2	7.0	6.2 - 7.7
All Chemistry Instruments	35	3.17	0.08	2.6	3.2	2.8 - 3.5	35	6.96	0.14	2.0	7.0	6.2 - 7.7

**Protein, Total (g/dL)**

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<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	211	6.30	0.21	3.3	6.3	5.6 - 7.0	211	4.42	0.15	3.3	4.4	3.9 - 4.9
All Alfa Wassermann Reagents	30	6.42	0.15	2.4	6.4	5.7 - 7.1	30	4.50	0.12	2.6	4.5	4.0 - 5.0
All Horiba Pentra Reagents	19	6.22	0.14	2.3	6.2	5.5 - 6.9	19	4.35	0.10	2.2	4.4	3.9 - 4.8
All Roche Reagents	29	6.28	0.21	3.4	6.3	5.6 - 7.0	29	4.39	0.14	3.1	4.4	3.9 - 4.9
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	6.4	5.6 - 7.0	4	-	-	-	4.5	4.0 - 4.9
All Chemistry Instruments	11	6.31	0.12	1.9	6.3	5.6 - 7.0	11	4.45	0.07	1.5	4.4	4.0 - 4.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	6.42	0.15	2.4	6.4	5.7 - 7.1	29	4.50	0.12	2.7	4.5	4.0 - 5.0
Beckman AU												
Beckman AU systems	34	6.15	0.12	1.9	6.2	5.5 - 6.8	33	4.31	0.07	1.6	4.3	3.8 - 4.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	6.22	0.14	2.3	6.2	5.5 - 6.9	19	4.35	0.10	2.2	4.4	3.9 - 4.8
Roche Integra												
Roche Integra	21	6.22	0.20	3.2	6.2	5.5 - 6.9	21	4.36	0.14	3.2	4.3	3.9 - 4.8
Siemens Healthcare												
Siemens Dimension	36	6.52	0.12	1.8	6.5	5.8 - 7.2	36	4.57	0.09	2.0	4.6	4.1 - 5.1
All Chemistry Instruments	37	6.52	0.12	1.8	6.5	5.8 - 7.2	37	4.57	0.09	2.0	4.6	4.1 - 5.1
VITROS												
VITROS 250,350,400 500,700,750,950	29	6.11	0.14	2.3	6.1	5.5 - 6.8	30	4.38	0.15	3.5	4.4	3.9 - 4.9
All Chemistry Instruments	35	6.12	0.13	2.2	6.2	5.5 - 6.8	36	4.39	0.14	3.2	4.4	3.9 - 4.9



**Protein, Total (g/dL)****Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	211	5.65	0.17	3.1	5.6	5.0 - 6.3
All Alfa Wassermann Reagents	30	5.72	0.14	2.4	5.8	5.1 - 6.3
All Horiba Pentra Reagents	19	5.57	0.12	2.2	5.6	5.0 - 6.2
All Roche Reagents	29	5.64	0.17	3.1	5.6	5.0 - 6.3
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	5.7	5.0 - 6.3
All Chemistry Instruments	11	5.65	0.05	0.9	5.6	5.0 - 6.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	29	5.72	0.14	2.5	5.8	5.1 - 6.3
Beckman AU						
Beckman AU systems	34	5.54	0.10	1.7	5.6	4.9 - 6.1
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	5.57	0.12	2.2	5.6	5.0 - 6.2
Roche Integra						
Roche Integra	21	5.60	0.16	2.9	5.6	5.0 - 6.2
Siemens Healthcare						
Siemens Dimension	35	5.87	0.09	1.5	5.9	5.2 - 6.5
All Chemistry Instruments	36	5.87	0.09	1.5	5.9	5.2 - 6.5
VITROS						
VITROS 250,350,400 500,700,750,950	29	5.53	0.15	2.7	5.5	4.9 - 6.1
All Chemistry Instruments	35	5.54	0.14	2.5	5.6	4.9 - 6.1

**Urea Nitrogen (mg/dL)**

<u>Reagent/Instrument</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	233	9.5	0.9	9.5	10	7 - 12	235	32.9	2.5	7.7	33	29 - 36
All Alfa Wassermann Reagents	32	9.8	0.7	7.2	10	7 - 12	31	33.5	1.3	4.0	33	30 - 37
All Horiba Pentra Reagents	18	9.4	0.5	5.3	9	7 - 12	18	32.3	1.1	3.5	32	29 - 36
All Roche Reagents	29	9.9	0.5	5.2	10	7 - 12	29	34.1	1.4	4.0	34	31 - 38
Abaxis Piccolo												
Abaxis Piccolo - waived	21	8.8	0.5	6.2	9	6 - 11	22	31.7	0.8	2.5	32	28 - 35
All Chemistry Instruments	28	8.8	0.5	5.7	9	6 - 11	29	31.7	0.7	2.2	32	28 - 35
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	9.8	0.7	7.3	10	7 - 12	26	33.6	1.3	4.0	33	30 - 37
Beckman AU												
Beckman AU systems	34	10.1	0.5	5.1	10	8 - 13	33	34.6	0.9	2.7	35	31 - 38
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	10.3	0.8	8.0	11	8 - 13	10	34.4	1.1	3.1	35	31 - 38
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	9.4	0.5	5.3	9	7 - 12	18	32.3	1.1	3.5	32	29 - 36
Roche Integra												
Roche Integra	21	9.8	0.6	6.1	10	7 - 12	21	34.0	1.4	4.2	34	30 - 38
Siemens Healthcare												
Siemens Dimension	36	9.9	0.8	8.1	10	7 - 12	36	35.0	1.5	4.2	35	31 - 39
All Chemistry Instruments	38	9.9	0.8	8.1	10	7 - 12	38	35.0	1.5	4.2	35	31 - 39
VITROS												
VITROS 250,350,400 500,700,750,950	31	8.3	0.5	5.6	8	6 - 11	31	28.5	0.7	2.4	28	25 - 32
All Chemistry Instruments	37	8.2	0.5	5.8	8	6 - 11	37	28.4	0.7	2.4	28	25 - 31

**Urea Nitrogen (mg/dL)**

<u>Reagent/Instrument</u>	<u>Specimen CH-13</u>						<u>Specimen CH-14</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	216	27.8	2.2	8.1	28	25 - 31	216	16.9	1.4	8.3	17	14 - 19
All Alfa Wassermann Reagents	32	28.5	1.2	4.3	29	25 - 32	31	17.4	0.7	3.8	17	15 - 20
All Horiba Pentra Reagents	18	27.1	0.9	3.3	27	24 - 30	18	16.3	0.6	3.6	16	14 - 19
All Roche Reagents	29	28.8	1.0	3.5	29	26 - 32	29	17.4	0.7	4.2	17	15 - 20
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	26	23 - 29	4	-	-	-	16	13 - 18
All Chemistry Instruments	10	26.3	0.7	2.6	26	23 - 29	10	15.6	0.5	3.3	16	13 - 18
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	28.5	1.0	3.6	29	25 - 32	26	17.4	0.6	3.7	17	15 - 20
Beckman AU												
Beckman AU systems	33	29.1	1.0	3.5	29	26 - 32	34	17.7	0.6	3.3	18	15 - 20
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	29.0	1.2	4.3	29	26 - 32	10	17.9	0.7	4.1	18	15 - 20
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	27.1	0.9	3.3	27	24 - 30	18	16.3	0.6	3.6	16	14 - 19
Roche Integra												
Roche Integra	21	28.6	1.1	3.7	29	26 - 32	21	17.3	0.7	4.2	17	15 - 20
Siemens Healthcare												
Siemens Dimension	36	29.3	1.3	4.4	29	26 - 32	36	17.7	1.0	5.5	18	15 - 20
All Chemistry Instruments	38	29.2	1.3	4.4	29	26 - 32	38	17.7	1.0	5.4	18	15 - 20
VITROS												
VITROS 250,350,400 500,700,750,950	31	23.9	0.5	2.3	24	21 - 27	31	14.5	0.6	3.9	15	12 - 17
All Chemistry Instruments	37	23.8	0.6	2.7	24	21 - 26	37	14.5	0.6	3.9	14	12 - 17

## Urea Nitrogen (mg/dL)

### Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	216	24.1	2.0	8.2	24	21 - 27
All Alfa Wassermann Reagents	31	24.7	0.9	3.6	25	22 - 27
All Horiba Pentra Reagents	18	23.6	0.9	3.9	24	21 - 26
All Roche Reagents	29	24.7	1.0	4.1	25	22 - 27
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	22	20 - 25
All Chemistry Instruments	10	22.3	0.7	3.0	22	20 - 25
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	26	24.7	0.9	3.7	25	22 - 27
Beckman AU						
Beckman AU systems	34	25.1	0.9	3.7	25	22 - 28
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	25.4	1.0	3.8	26	23 - 28
Horiba ABX Pentra						
Horiba ABX Pentra 400	18	23.6	0.9	3.9	24	21 - 26
Roche Integra						
Roche Integra	21	24.5	0.9	3.8	24	22 - 27
Siemens Healthcare						
Siemens Dimension	36	25.4	1.3	5.2	25	23 - 28
All Chemistry Instruments	38	25.4	1.3	5.1	25	23 - 28
VITROS						
VITROS 250,350,400 500,700,750,950	31	20.8	0.5	2.6	21	18 - 23
All Chemistry Instruments	37	20.7	0.6	3.0	21	18 - 23

**Uric Acid (mg/dL)**

<u>Reagent/Instrument</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	2.71	0.34	12.4	2.7	2.2 - 3.2	143	8.17	0.34	4.2	8.2	6.7 - 9.6
All Alfa Wassermann Reagents	17	3.46	0.15	4.5	3.5	2.8 - 4.1	18	8.50	0.30	3.5	8.4	7.0 - 10.0
All Roche Reagents	22	2.63	0.08	2.9	2.6	2.1 - 3.1	21	8.30	0.23	2.8	8.3	6.8 - 9.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	3.46	0.15	4.5	3.5	2.8 - 4.1	18	8.50	0.30	3.5	8.4	7.0 - 10.0
Beckman AU												
Beckman AU systems	28	2.73	0.13	4.8	2.7	2.2 - 3.2	29	8.25	0.23	2.8	8.3	6.8 - 9.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	2.63	0.14	5.4	2.6	2.1 - 3.1	11	8.13	0.24	3.0	8.2	6.7 - 9.6
Roche Integra												
Roche Integra	14	2.63	0.09	3.5	2.6	2.1 - 3.1	13	8.35	0.27	3.3	8.3	6.9 - 9.8
Siemens Healthcare												
Siemens Dimension	26	2.62	0.13	5.0	2.6	2.1 - 3.1	26	7.93	0.26	3.3	8.0	6.5 - 9.3
All Chemistry Instruments	27	2.63	0.13	4.9	2.6	2.1 - 3.1	27	7.92	0.26	3.3	8.0	6.5 - 9.3
VITROS												
VITROS 250,350,400 500,700,750,950	17	2.53	0.12	4.8	2.5	2.0 - 3.0	17	7.92	0.14	1.8	7.9	6.5 - 9.3
All Chemistry Instruments	23	2.53	0.11	4.4	2.5	2.1 - 3.0	23	7.94	0.13	1.6	8.0	6.5 - 9.3
	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
All Method	141	6.95	0.27	3.8	6.9	5.7 - 8.2	140	4.40	0.22	5.1	4.4	3.6 - 5.2
All Alfa Wassermann Reagents	17	7.25	0.23	3.2	7.2	6.0 - 8.5	18	4.90	0.24	4.9	4.9	4.0 - 5.8
All Roche Reagents	22	7.02	0.20	2.9	7.0	5.8 - 8.3	21	4.35	0.11	2.5	4.3	3.6 - 5.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	7.25	0.23	3.2	7.2	6.0 - 8.5	18	4.90	0.24	4.9	4.9	4.0 - 5.8
Beckman AU												
Beckman AU systems	29	7.03	0.19	2.7	7.0	5.8 - 8.3	29	4.44	0.15	3.3	4.4	3.6 - 5.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	6.88	0.25	3.6	6.8	5.7 - 8.1	11	4.35	0.16	3.8	4.3	3.6 - 5.1
Roche Integra												
Roche Integra	14	7.06	0.21	3.0	7.1	5.8 - 8.3	14	4.42	0.18	4.0	4.4	3.6 - 5.2
Siemens Healthcare												
Siemens Dimension	26	6.73	0.19	2.8	6.7	5.5 - 7.9	26	4.22	0.13	3.1	4.2	3.5 - 5.0
All Chemistry Instruments	27	6.72	0.19	2.8	6.7	5.5 - 7.9	27	4.23	0.13	3.0	4.2	3.5 - 5.0
VITROS												
VITROS 250,350,400 500,700,750,950	17	6.76	0.13	1.9	6.8	5.6 - 8.0	17	4.28	0.12	2.8	4.3	3.5 - 5.1
All Chemistry Instruments	23	6.78	0.11	1.7	6.8	5.6 - 8.0	23	4.29	0.11	2.6	4.3	3.5 - 5.1

**Uric Acid (mg/dL)****Specimen CH-15**

<b><u>Reagent/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	141	6.09	0.26	4.3	6.1	5.0 - 7.2
All Alfa Wassermann Reagents	17	6.43	0.26	4.0	6.4	5.3 - 7.6
All Roche Reagents	21	6.08	0.16	2.6	6.0	5.0 - 7.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	17	6.43	0.26	4.0	6.4	5.3 - 7.6
Beckman AU						
Beckman AU systems	29	6.16	0.19	3.1	6.1	5.1 - 7.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	6.00	0.23	3.9	6.0	4.9 - 7.1
Roche Integra						
Roche Integra	14	6.16	0.23	3.7	6.1	5.1 - 7.3
Siemens Healthcare						
Siemens Dimension	26	5.89	0.15	2.5	5.9	4.8 - 6.9
All Chemistry Instruments	27	5.89	0.15	2.5	5.9	4.8 - 6.9
VITROS						
VITROS 250,350,400 500,700,750,950	17	5.92	0.11	1.9	5.9	4.9 - 7.0
All Chemistry Instruments	22	5.95	0.08	1.3	6.0	4.9 - 7.0

**Chloride (mmol/L)**

<u>Method/Instrument</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	228	87.0	2.8	3.3	87	82 - 92	227	106.9	2.9	2.7	107	101 - 113
Abaxis Piccolo												
Abaxis Piccolo - waived	22	92.3	1.8	1.9	92	87 - 97	22	107.7	2.2	2.0	108	102 - 114
All Chemistry Instruments	29	92.1	1.9	2.1	92	87 - 97	29	107.5	2.1	2.0	107	102 - 113
ISE Diluted												
Beckman AU systems	34	86.9	0.9	1.1	87	82 - 92	35	103.6	1.1	1.1	104	98 - 109
Roche Integra	20	87.4	1.9	2.2	88	83 - 92	20	108.5	2.7	2.5	108	103 - 114
Siemens Dimension QuickLyte - Xpand/EXL	25	84.8	1.1	1.2	85	80 - 89	24	107.8	0.9	0.8	108	102 - 114
All Chemistry Instruments	114	86.0	2.2	2.5	86	81 - 91	113	106.4	3.0	2.8	106	101 - 112
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	29	85.9	1.6	1.8	86	81 - 91	29	108.2	1.1	1.0	108	102 - 114
Horiba ABX Pentra 400	15	86.5	2.5	2.9	86	82 - 91	14	109.0	4.8	4.4	109	103 - 115
All Chemistry Instruments	47	86.2	2.0	2.4	86	81 - 91	47	108.7	2.9	2.6	108	103 - 115
VITROS												
VITROS 250,350,400 500,700,750,950	30	87.7	1.8	2.1	88	83 - 93	30	105.5	2.2	2.1	105	100 - 111
All Chemistry Instruments	36	87.5	1.7	2.0	88	83 - 92	36	105.5	2.1	2.0	105	100 - 111
<u>Method/Instrument</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	210	102.6	2.7	2.6	102	97 - 108	209	93.0	2.1	2.3	93	88 - 98
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	104	99 - 110	4	-	-	-	98	92 - 102
All Chemistry Instruments	10	104.3	2.3	2.2	105	99 - 110	10	97.1	1.5	1.6	97	92 - 102
ISE Diluted												
Beckman AU systems	35	100.0	1.0	1.0	100	95 - 106	35	92.5	0.9	0.9	92	87 - 98
Roche Integra	20	104.0	2.7	2.6	104	98 - 110	20	94.1	2.1	2.3	94	89 - 99
Siemens Dimension QuickLyte - Xpand/EXL	25	102.8	1.2	1.2	103	97 - 108	24	91.9	0.7	0.8	92	87 - 97
All Chemistry Instruments	116	102.0	2.7	2.7	102	96 - 108	115	92.5	2.0	2.1	92	87 - 98
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	29	104.1	1.7	1.6	104	98 - 110	29	92.9	1.2	1.3	93	88 - 98
Horiba ABX Pentra 400	14	103.9	4.4	4.2	104	98 - 110	15	93.4	3.4	3.6	94	88 - 99
All Chemistry Instruments	47	104.1	2.7	2.6	104	98 - 110	47	93.2	2.3	2.4	93	88 - 98
VITROS												
VITROS 250,350,400 500,700,750,950	30	101.6	2.0	1.9	102	96 - 107	30	93.3	1.8	1.9	93	88 - 98
All Chemistry Instruments	36	101.6	1.8	1.8	102	96 - 107	36	93.4	1.7	1.8	93	88 - 99

**Chloride (mmol/L)****Specimen CH-15**

<b><u>Method/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	210	99.1	2.5	2.5	99	94 - 105
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	102	95 - 106
All Chemistry Instruments	10	100.9	2.0	2.0	102	95 - 106
ISE Diluted						
Beckman AU systems	35	97.3	1.0	1.0	97	92 - 103
Roche Integra	20	100.6	2.4	2.4	101	95 - 106
Siemens Dimension QuickLyte - Xpand/EXL	23	98.7	0.8	0.8	99	93 - 104
All Chemistry Instruments	116	98.5	2.5	2.6	98	93 - 104
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	28	99.5	1.0	1.0	100	94 - 105
Horiba ABX Pentra 400	15	100.4	4.2	4.2	101	95 - 106
All Chemistry Instruments	48	100.2	2.8	2.8	100	95 - 106
VITROS						
VITROS 250,350,400 500,700,750,950	30	98.7	2.0	2.1	99	93 - 104
All Chemistry Instruments	36	98.8	1.9	2.0	99	93 - 104



**CO<sub>2</sub> (mmol/L)**

<b><u>Method/Instrument</u></b>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	224	13.4	1.9	14.3	13	10 - 17	220	27.0	2.9	10.7	27	21 - 33
Abaxis Piccolo												
Abaxis Piccolo - waived	19	12.3	0.8	6.7	12	9 - 15	20	27.3	1.0	3.8	27	21 - 33
All Chemistry Instruments	25	12.3	0.8	6.5	12	9 - 15	26	27.0	1.2	4.4	27	21 - 33
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	18	13.7	2.1	15.1	14	10 - 17	18	28.2	3.0	10.6	28	22 - 34
Beckman AU systems	26	13.5	1.4	10.7	14	10 - 17	25	28.4	2.0	6.9	28	22 - 35
Horiba ABX Pentra 400	13	14.4	1.5	10.4	15	11 - 18	13	28.2	1.8	6.3	28	22 - 34
Roche Integra	17	13.7	1.7	12.3	14	10 - 17	17	26.4	2.0	7.5	26	21 - 32
Siemens Dimension	25	15.0	1.8	12.1	15	12 - 19	25	29.0	2.4	8.4	29	23 - 35
All Chemistry Instruments	116	14.0	1.8	12.8	14	11 - 17	115	28.0	2.5	9.0	28	22 - 34
ISE Diluted												
All Chemistry Instruments	21	13.6	1.6	11.8	13	10 - 17	21	28.3	6.7	23.6	28	22 - 34
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	11	13.8	1.7	12.0	14	11 - 17	11	26.7	2.5	9.5	26	21 - 33
All Chemistry Instruments	20	14.0	1.5	10.5	14	11 - 17	20	27.7	2.8	10.1	28	22 - 34
VITROS												
VITROS 250,350,400 500,700,750,950	30	11.3	1.1	9.6	11	9 - 14	29	23.0	1.1	4.9	23	18 - 28
All Chemistry Instruments	36	11.4	1.1	9.7	12	9 - 14	35	23.1	1.1	5.0	23	18 - 28
<b><u>Method/Instrument</u></b>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	206	23.6	2.8	11.7	24	18 - 29	206	17.2	2.3	13.5	18	13 - 21
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	24	18 - 29	4	-	-	-	17	13 - 21
All Chemistry Instruments	10	23.6	0.7	3.0	24	18 - 29	10	16.8	0.6	3.8	17	13 - 21
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	18	24.4	3.4	14.0	26	19 - 30	18	18.0	2.4	13.6	19	14 - 22
Beckman AU systems	26	24.8	2.0	7.9	25	19 - 30	26	17.9	1.8	10.2	18	14 - 22
Horiba ABX Pentra 400	13	24.2	1.8	7.4	25	19 - 30	13	18.4	1.7	9.3	18	14 - 23
Roche Integra	17	22.8	1.9	8.1	23	18 - 28	17	16.9	1.5	8.9	17	13 - 21
Siemens Dimension	25	25.5	2.3	8.9	26	20 - 31	25	19.0	1.9	10.2	19	15 - 23
All Chemistry Instruments	115	24.4	2.4	9.7	25	19 - 30	114	18.1	1.9	10.6	18	14 - 22
ISE Diluted												
All Chemistry Instruments	21	25.7	4.8	18.6	25	20 - 31	21	18.2	3.0	16.4	18	14 - 22
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	11	23.6	2.5	10.7	24	18 - 29	11	17.7	2.0	11.3	18	14 - 22
All Chemistry Instruments	20	24.3	2.6	10.8	25	19 - 30	20	17.8	1.9	10.9	18	14 - 22
VITROS												
VITROS 250,350,400 500,700,750,950	30	20.0	1.0	5.2	20	15 - 24	30	14.2	1.2	8.3	15	11 - 18
All Chemistry Instruments	36	20.1	1.2	5.8	20	16 - 25	36	14.3	1.3	8.8	15	11 - 18

**CO<sub>2</sub> (mmol/L)****Specimen CH-15**

<b><u>Method/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	206	20.9	2.7	12.9	21	16 - 26
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	22	16 - 26
All Chemistry Instruments	10	21.1	0.9	4.1	21	16 - 26
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	18	22.2	3.1	13.8	23	17 - 27
Beckman AU systems	26	21.9	1.7	7.8	22	17 - 27
Horiba ABX Pentra 400	13	21.4	1.9	9.1	22	17 - 26
Roche Integra	17	20.3	1.9	9.5	20	16 - 25
Siemens Dimension	25	23.0	1.5	6.7	23	18 - 28
All Chemistry Instruments	115	21.8	2.1	9.7	22	17 - 27
ISE Diluted						
All Chemistry Instruments	20	21.9	2.9	13.4	22	17 - 27
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	11	22.0	2.4	10.8	23	17 - 27
All Chemistry Instruments	20	21.6	2.9	13.6	23	17 - 26
VITROS						
VITROS 250,350,400 500,700,750,950	30	17.0	1.0	5.8	17	13 - 21
All Chemistry Instruments	36	17.3	1.2	7.0	17	13 - 21

**Potassium (mmol/L)**

<u>Method/Instrument</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	232	2.91	0.11	3.7	2.9	2.4 - 3.5	235	5.69	0.18	3.2	5.7	5.1 - 6.2
Abaxis Piccolo												
Abaxis Piccolo - waived	21	2.71	0.13	4.8	2.7	2.2 - 3.3	21	5.75	0.14	2.4	5.8	5.2 - 6.3
All Chemistry Instruments	29	2.71	0.14	5.2	2.7	2.2 - 3.3	29	5.75	0.15	2.7	5.8	5.2 - 6.3
ISE Diluted												
Beckman AU systems	35	2.89	0.04	1.4	2.9	2.3 - 3.4	35	5.53	0.07	1.2	5.5	5.0 - 6.1
Roche Integra	20	2.94	0.05	1.7	2.9	2.4 - 3.5	20	5.68	0.06	1.1	5.7	5.1 - 6.2
Siemens Dimension QuickLyte - Xpand/EXL	26	2.89	0.05	1.7	2.9	2.3 - 3.4	26	5.60	0.05	0.9	5.6	5.0 - 6.1
All Chemistry Instruments	116	2.91	0.06	2.1	2.9	2.4 - 3.5	118	5.60	0.11	1.9	5.6	5.1 - 6.2
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	29	2.90	0.15	5.1	2.9	2.4 - 3.4	29	5.74	0.09	1.6	5.7	5.2 - 6.3
Horiba ABX Pentra 400	16	2.97	0.09	3.2	3.0	2.4 - 3.5	16	5.53	0.11	1.9	5.5	5.0 - 6.1
All Chemistry Instruments	50	2.93	0.13	4.4	2.9	2.4 - 3.5	50	5.66	0.14	2.5	5.7	5.1 - 6.2
VITROS												
VITROS 250,350,400 500,700,750,950	31	3.00	0.05	1.6	3.0	2.5 - 3.6	30	5.99	0.08	1.4	6.0	5.4 - 6.5
All Chemistry Instruments	37	3.01	0.05	1.8	3.0	2.5 - 3.6	36	5.99	0.08	1.4	6.0	5.4 - 6.5
	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
All Method	217	5.07	0.14	2.8	5.0	4.5 - 5.6	213	3.77	0.10	2.5	3.8	3.2 - 4.3
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	5.1	4.5 - 5.6	3	-	-	-	3.6	3.2 - 4.3
All Chemistry Instruments	10	5.09	0.10	2.0	5.1	4.5 - 5.6	10	3.72	0.11	3.1	3.7	3.2 - 4.3
ISE Diluted												
Beckman AU systems	35	4.95	0.05	1.0	4.9	4.4 - 5.5	35	3.71	0.04	1.1	3.7	3.2 - 4.3
Roche Integra	20	5.06	0.06	1.2	5.1	4.5 - 5.6	20	3.79	0.05	1.3	3.8	3.2 - 4.3
Siemens Dimension QuickLyte - Xpand/EXL	26	5.00	0.06	1.2	5.0	4.5 - 5.6	26	3.74	0.05	1.3	3.7	3.2 - 4.3
All Chemistry Instruments	117	5.01	0.09	1.8	5.0	4.5 - 5.6	117	3.75	0.07	1.9	3.7	3.2 - 4.3
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	29	5.13	0.11	2.2	5.1	4.6 - 5.7	28	3.74	0.11	2.9	3.8	3.2 - 4.3
Horiba ABX Pentra 400	16	4.94	0.07	1.5	4.9	4.4 - 5.5	15	3.74	0.06	1.7	3.7	3.2 - 4.3
All Chemistry Instruments	50	5.06	0.13	2.6	5.1	4.5 - 5.6	48	3.75	0.09	2.5	3.8	3.2 - 4.3
VITROS												
VITROS 250,350,400 500,700,750,950	31	5.29	0.08	1.4	5.3	4.7 - 5.8	31	3.90	0.05	1.2	3.9	3.3 - 4.4
All Chemistry Instruments	37	5.29	0.08	1.4	5.3	4.7 - 5.8	36	3.90	0.05	1.3	3.9	3.3 - 4.4

**Potassium (mmol/L)****Specimen CH-15**

<b><u>Method/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	216	4.61	0.12	2.6	4.6	4.1 - 5.2
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	4.7	4.1 - 5.2
All Chemistry Instruments	10	4.64	0.10	2.1	4.7	4.1 - 5.2
ISE Diluted						
Beckman AU systems	35	4.51	0.06	1.4	4.5	4.0 - 5.1
Roche Integra	20	4.62	0.06	1.3	4.6	4.1 - 5.2
Siemens Dimension QuickLyte - Xpand/EXL	26	4.56	0.07	1.5	4.6	4.0 - 5.1
All Chemistry Instruments	117	4.57	0.09	1.9	4.6	4.0 - 5.1
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	28	4.61	0.08	1.6	4.6	4.1 - 5.2
Horiba ABX Pentra 400	16	4.50	0.05	1.1	4.5	4.0 - 5.0
All Chemistry Instruments	49	4.58	0.08	1.9	4.6	4.0 - 5.1
VITROS						
VITROS 250,350,400 500,700,750,950	31	4.79	0.08	1.6	4.8	4.2 - 5.3
All Chemistry Instruments	37	4.79	0.08	1.6	4.8	4.2 - 5.3

## 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>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	236	118.7	3.3	2.8	118	114 - 123	231	152.6	3.9	2.5	152	148 - 157
Abaxis Piccolo												
Abaxis Piccolo - waived	22	122.4	1.5	1.2	123	118 - 127	22	156.6	2.1	1.3	157	152 - 161
All Chemistry Instruments	29	122.5	1.5	1.2	123	118 - 127	29	156.7	2.2	1.4	157	152 - 161
ISE Diluted												
Beckman AU systems	35	116.7	1.2	1.1	117	112 - 121	35	148.9	1.6	1.1	149	144 - 153
Roche Integra	20	118.0	1.3	1.1	118	114 - 122	20	150.8	1.6	1.1	151	146 - 155
Siemens Dimension QuickLyte - Xpand/EXL	27	119.6	1.3	1.0	119	115 - 124	27	149.6	1.5	1.0	149	145 - 154
All Chemistry Instruments	117	118.0	2.0	1.7	118	113 - 122	118	149.8	2.0	1.3	150	145 - 154
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	30	114.6	2.0	1.7	115	110 - 119	29	152.7	1.1	0.7	153	148 - 157
Horiba ABX Pentra 400	16	116.8	1.9	1.6	117	112 - 121	16	153.4	1.4	0.9	154	149 - 158
All Chemistry Instruments	50	115.8	2.5	2.2	115	111 - 120	49	152.9	1.3	0.9	153	148 - 157
VITROS												
VITROS 250,350,400 500,700,750,950	31	122.6	2.1	1.7	123	118 - 127	31	159.9	3.2	2.0	159	155 - 164
All Chemistry Instruments	37	122.6	2.0	1.6	123	118 - 127	37	159.8	3.0	1.9	159	155 - 164
<u>Method/Instrument</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	212	144.7	3.3	2.3	144	140 - 149	216	129.0	3.1	2.4	128	125 - 134
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	149	144 - 153	4	-	-	-	134	129 - 138
All Chemistry Instruments	10	148.7	1.3	0.8	149	144 - 153	10	133.1	1.4	1.1	134	129 - 138
ISE Diluted												
Beckman AU systems	35	142.1	1.4	1.0	142	138 - 147	35	127.4	1.4	1.1	127	123 - 132
Roche Integra	20	143.4	1.6	1.1	144	139 - 148	20	128.2	1.6	1.2	128	124 - 133
Siemens Dimension QuickLyte - Xpand/EXL	27	143.0	1.6	1.1	143	139 - 147	27	129.1	1.6	1.3	129	125 - 134
All Chemistry Instruments	117	142.8	1.7	1.2	143	138 - 147	116	128.1	1.7	1.3	128	124 - 133
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	29	144.0	1.5	1.1	144	139 - 148	29	126.1	1.3	1.0	126	122 - 131
Horiba ABX Pentra 400	16	144.9	1.1	0.8	145	140 - 149	16	127.9	1.3	1.0	128	123 - 132
All Chemistry Instruments	48	144.4	1.3	0.9	144	140 - 149	50	127.0	2.0	1.6	127	122 - 131
VITROS												
VITROS 250,350,400 500,700,750,950	31	151.3	3.0	2.0	151	147 - 156	31	134.1	2.2	1.6	134	130 - 139
All Chemistry Instruments	37	151.1	2.8	1.9	151	147 - 156	37	134.0	2.1	1.5	134	129 - 138

**Sodium (mmol/L)****Specimen CH-15**

<b><u>Method/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	213	139.0	3.1	2.2	138	135 - 144
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	143	139 - 148
All Chemistry Instruments	10	143.1	1.6	1.1	143	139 - 148
ISE Diluted						
Beckman AU systems	35	136.7	1.3	1.0	137	132 - 141
Roche Integra	20	138.0	1.4	1.0	138	134 - 142
Siemens Dimension QuickLyte - Xpand/EXL	27	138.0	1.7	1.2	137	133 - 142
All Chemistry Instruments	118	137.6	1.6	1.2	138	133 - 142
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	28	137.4	1.0	0.7	137	133 - 142
Horiba ABX Pentra 400	16	138.9	1.1	0.8	139	134 - 143
All Chemistry Instruments	47	137.9	1.2	0.9	138	133 - 142
VITROS						
VITROS 250,350,400 500,700,750,950	31	145.1	2.7	1.9	145	141 - 150
All Chemistry Instruments	37	145.0	2.5	1.8	145	141 - 150

**TIBC – Calculated (µg/dL)**

<u>Method/Instrument</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	131.1	28.4	21.7	138	74 - 189	15	337.9	97.0	28.7	392	143 - 532
<u>Method/Instrument</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	292.1	80.4	27.5	336	131 - 453	15	194.6	47.5	24.4	218	99 - 290
<u>Method/Instrument</u>	<b>Specimen CH-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	15	257.3	68.5	26.6	291	120 - 395						

**TIBC – Direct (µg/dL)**

<u>Method/Instrument</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	25	120.6	39.3	32.6	108	41 - 200	24	309.5	31.6	10.2	305	246 - 373
Siemens Healthcare												
Siemens Dimension	14	98.0	8.3	8.4	99	78 - 118	14	289.9	10.8	3.7	292	231 - 348
All Chemistry Instruments	15	97.0	8.8	9.1	98	77 - 117	15	289.7	10.4	3.6	291	231 - 348
<u>Method/Instrument</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	25	261.8	41.9	16.0	256	178 - 346	25	182.9	46.9	25.6	168	89 - 277
Siemens Healthcare												
Siemens Dimension	14	244.6	10.5	4.3	247	195 - 294	14	157.5	10.1	6.4	159	126 - 189
All Chemistry Instruments	15	244.3	10.2	4.2	246	195 - 294	15	157.7	9.7	6.2	159	126 - 190
<u>Method/Instrument</u>	<b>Specimen CH-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	25	234.2	41.6	17.8	226	151 - 318						
Siemens Healthcare												
Siemens Dimension	14	215.1	9.5	4.4	216	172 - 259						
All Chemistry Instruments	15	214.9	9.2	4.3	213	171 - 258						

**UIBC – Direct (µg/dL)**

<u>Method/Instrument</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	25	88.0	9.4	10.7	89	69 - 107	25	220.4	15.2	6.9	221	176 - 265
All Roche Reagents	11	82.0	8.3	10.1	80	65 - 99	11	210.0	9.8	4.7	207	168 - 252
Beckman AU Beckman AU systems	13	93.9	6.4	6.8	94	75 - 113	13	229.8	13.5	5.9	232	183 - 276
	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
All Method	25	191.2	11.9	6.2	192	152 - 230	25	129.0	11.2	8.7	130	103 - 155
All Roche Reagents	11	182.4	7.6	4.2	182	145 - 219	11	121.4	8.1	6.7	119	97 - 146
Beckman AU Beckman AU systems	13	199.0	9.8	4.9	200	159 - 239	13	136.2	8.9	6.5	134	108 - 164
	<b>Specimen CH-15</b>											
All Method	25	169.5	11.0	6.5	170	135 - 204						
All Roche Reagents	11	161.6	9.2	5.7	162	129 - 194						
Beckman AU Beckman AU systems	13	176.5	7.7	4.3	177	141 - 212						



**ALT (SGPT) (IU/L)**

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<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	224	35.2	8.3	23.6	34	28 - 43	225	185.0	16.1	8.7	188	148 - 223
All Alfa Wassermann Reagents	29	25.5	2.7	10.5	26	20 - 31	30	160.9	4.7	2.9	162	128 - 194
All Horiba Pentra Reagents	18	36.8	1.6	4.3	37	29 - 45	18	212.4	6.2	2.9	212	169 - 255
All Roche Reagents	29	32.0	0.8	2.6	32	25 - 39	29	189.0	3.2	1.7	189	151 - 227
Abaxis Piccolo												
Abaxis Piccolo - waived	21	35.3	2.4	6.8	35	28 - 43	21	172.3	3.0	1.7	172	137 - 207
All Chemistry Instruments	29	35.2	2.1	5.9	35	28 - 43	29	172.0	3.0	1.7	172	137 - 207
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	25.5	2.6	10.1	26	20 - 31	24	161.0	4.3	2.7	161	128 - 194
Beckman AU												
Beckman AU systems	32	29.5	0.9	3.2	30	23 - 36	32	174.0	5.4	3.1	174	139 - 209
All Chemistry Instruments	33	29.5	0.9	3.2	29	23 - 36	33	174.1	5.3	3.1	174	139 - 209
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	34.6	2.0	5.7	34	27 - 42	10	196.8	8.0	4.1	195	157 - 237
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	36.8	1.6	4.3	37	29 - 45	18	212.4	6.2	2.9	212	169 - 255
Roche Integra												
Roche Integra	21	31.9	0.9	2.8	32	25 - 39	21	188.8	3.4	1.8	188	151 - 227
Siemens Healthcare ALTi												
Siemens Dimension	28	36.2	1.6	4.5	36	28 - 44	29	200.1	4.4	2.2	200	160 - 241
All Chemistry Instruments	30	35.9	2.0	5.5	36	28 - 44	30	199.9	4.5	2.3	200	159 - 240
VITROS												
VITROS 250,350,400 500,700,750,950	30	52.5	4.6	8.8	53	42 - 64	31	190.2	5.6	2.9	192	152 - 229
All Chemistry Instruments	34	52.5	4.4	8.3	53	42 - 63	35	190.6	5.4	2.8	192	152 - 229

**ALT (SGPT) (IU/L)**

<u>Instrument/Reagent</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	207	153.0	13.7	8.9	155	122 - 184	205	82.9	9.8	11.8	83	66 - 100
All Alfa Wassermann Reagents	30	132.4	3.8	2.9	133	105 - 159	30	68.5	2.5	3.6	68	54 - 83
All Horiba Pentra Reagents	18	174.6	5.3	3.1	174	139 - 210	17	91.8	2.7	3.0	92	73 - 111
All Roche Reagents	29	154.1	2.9	1.9	154	123 - 185	28	81.4	1.6	2.0	81	65 - 98
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	143	113 - 170	4	-	-	-	77	61 - 93
All Chemistry Instruments	11	141.6	4.1	2.9	141	113 - 170	11	77.0	1.5	2.0	77	61 - 93
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	132.5	3.8	2.9	133	105 - 159	24	68.3	2.3	3.4	68	54 - 82
Beckman AU												
Beckman AU systems	32	141.5	4.3	3.0	142	113 - 170	31	74.1	2.0	2.7	74	59 - 89
All Chemistry Instruments	33	141.6	4.3	3.0	142	113 - 170	32	74.1	2.0	2.7	74	59 - 89
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	161.6	6.8	4.2	159	129 - 194	10	88.0	4.0	4.6	87	70 - 106
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	174.6	5.3	3.1	174	139 - 210	17	91.8	2.7	3.0	92	73 - 111
Roche Integra												
Roche Integra	21	154.1	3.1	2.0	153	123 - 185	21	81.4	1.7	2.1	81	65 - 98
Siemens Healthcare ALTi												
Siemens Dimension	29	164.0	3.9	2.4	164	131 - 197	28	87.9	2.4	2.7	88	70 - 106
All Chemistry Instruments	30	163.7	4.1	2.5	164	130 - 197	29	87.8	2.4	2.7	88	70 - 106
VITROS												
VITROS 250,350,400 500,700,750,950	30	160.1	4.5	2.8	161	128 - 193	30	96.0	3.4	3.6	96	76 - 116
All Chemistry Instruments	34	160.4	4.5	2.8	161	128 - 193	34	96.1	3.3	3.5	96	76 - 116

**ALT (SGPT) (IU/L)****Specimen CH-15**

<b><u>Instrument/Reagent</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	206	129.3	12.5	9.7	132	103 - 156
All Alfa Wassermann Reagents	30	110.5	3.6	3.2	110	88 - 133
All Horiba Pentra Reagents	18	146.6	4.2	2.9	146	117 - 176
All Roche Reagents	29	129.1	2.4	1.9	129	103 - 155
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	118	94 - 142
All Chemistry Instruments	11	117.9	1.9	1.6	118	94 - 142
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	110.7	3.4	3.0	110	88 - 133
Beckman AU						
Beckman AU systems	32	118.5	3.6	3.0	119	94 - 143
All Chemistry Instruments	33	118.6	3.5	3.0	119	94 - 143
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	147.4	30.8	20.9	138	117 - 177
Horiba ABX Pentra						
Horiba ABX Pentra 400	18	146.6	4.2	2.9	146	117 - 176
Roche Integra						
Roche Integra	21	129.0	2.7	2.1	129	103 - 155
Siemens Healthcare ALTi						
Siemens Dimension	28	138.8	3.5	2.5	139	111 - 167
All Chemistry Instruments	29	138.5	3.7	2.7	138	110 - 167
VITROS						
VITROS 250,350,400 500,700,750,950	30	139.0	3.8	2.7	139	111 - 167
All Chemistry Instruments	34	139.2	3.7	2.6	140	111 - 168

**Alkaline Phosphatase (IU/L)**

<u>Instrument/Reagent</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</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	233	50.3	4.9	9.8	50	35 - 66	233	250.4	43.3	17.3	260	175 - 326
All Alfa Wassermann Reagents	30	50.4	3.7	7.4	51	35 - 66	30	266.1	16.8	6.3	266	186 - 346
All Horiba Pentra Reagents	19	56.6	3.1	5.5	56	39 - 74	19	301.2	14.6	4.8	294	210 - 392
All Roche Reagents	29	51.7	2.1	4.0	52	36 - 68	29	272.4	11.6	4.3	272	190 - 355
Abaxis Piccolo												
Abaxis Piccolo - waived	21	47.1	4.2	8.8	46	32 - 62	21	212.1	10.2	4.8	213	148 - 276
All Chemistry Instruments	29	47.4	4.5	9.5	47	33 - 62	29	212.4	10.6	5.0	214	148 - 277
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	50.5	3.5	7.0	51	35 - 66	24	264.8	17.8	6.7	264	185 - 345
Beckman AU												
Beckman AU systems	33	45.7	3.6	8.0	46	32 - 60	33	246.6	19.5	7.9	247	172 - 321
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	56.6	3.1	5.5	56	39 - 74	19	301.2	14.6	4.8	294	210 - 392
Roche Integra												
Roche Integra	20	51.9	2.2	4.3	52	36 - 68	20	274.1	12.7	4.6	273	191 - 357
All Chemistry Instruments	21	51.9	2.2	4.2	52	36 - 68	21	273.7	12.5	4.6	273	191 - 356
Siemens Healthcare												
Siemens Dimension	11	54.5	5.3	9.7	54	38 - 71	11	293.7	18.6	6.3	297	205 - 382
Siemens Healthcare ALPi												
Siemens Dimension	26	54.5	3.7	6.8	55	38 - 71	26	294.9	11.7	4.0	295	206 - 384
All Chemistry Instruments	27	54.4	3.7	6.8	54	38 - 71	27	295.0	11.5	3.9	295	206 - 384
VITROS												
VITROS 250,350,400 500,700,750,950	31	47.5	2.5	5.3	48	33 - 62	31	175.8	9.9	5.6	177	123 - 229
All Chemistry Instruments	37	47.5	2.4	5.1	48	33 - 62	37	177.7	10.2	5.8	179	124 - 232

## Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	<u>Specimen CH-13</u>						<u>Specimen CH-14</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	215	211.1	31.3	14.8	219	147 - 275	215	117.3	13.0	11.1	119	82 - 153
All Alfa Wassermann Reagents	30	220.6	14.7	6.7	222	154 - 287	30	119.4	7.2	6.0	121	83 - 156
All Horiba Pentra Reagents	19	247.1	11.5	4.6	242	172 - 322	19	134.3	7.1	5.3	131	93 - 175
All Roche Reagents	28	225.4	8.0	3.6	225	157 - 294	29	121.8	5.2	4.3	121	85 - 159
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	178	124 - 232	4	-	-	-	101	70 - 132
All Chemistry Instruments	11	178.4	5.0	2.8	178	124 - 232	11	101.0	4.4	4.4	101	70 - 132
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	219.4	15.7	7.1	221	153 - 286	24	119.1	7.6	6.3	121	83 - 155
Beckman AU												
Beckman AU systems	33	201.5	16.3	8.1	205	141 - 262	33	108.5	8.3	7.6	110	75 - 142
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	247.1	11.5	4.6	242	172 - 322	19	134.3	7.1	5.3	131	93 - 175
Roche Integra												
Roche Integra	20	225.2	10.9	4.8	225	157 - 293	20	122.5	5.7	4.7	122	85 - 160
All Chemistry Instruments	21	225.0	10.7	4.7	225	157 - 293	21	122.4	5.6	4.6	122	85 - 160
Siemens Healthcare												
Siemens Dimension	11	240.4	15.6	6.5	242	168 - 313	11	130.4	9.0	6.9	132	91 - 170
Siemens Healthcare ALPi												
Siemens Dimension	26	241.5	9.5	3.9	241	169 - 314	26	130.7	5.6	4.3	130	91 - 170
All Chemistry Instruments	27	241.4	9.3	3.9	240	169 - 314	27	130.6	5.5	4.2	130	91 - 170
VITROS												
VITROS 250,350,400 500,700,750,950	31	159.1	8.8	5.5	160	111 - 207	31	102.0	4.8	4.7	101	71 - 133
All Chemistry Instruments	37	160.7	9.0	5.6	162	112 - 209	37	102.4	4.8	4.7	103	71 - 134

## Alkaline Phosphatase (IU/L)

### Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	215	180.9	23.6	13.1	185	126 - 236
All Alfa Wassermann Reagents	30	186.8	12.4	6.7	188	130 - 243
All Horiba Pentra Reagents	19	208.3	10.4	5.0	203	145 - 271
All Roche Reagents	29	190.1	7.9	4.1	190	133 - 248
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	160	108 - 202
All Chemistry Instruments	11	155.2	7.3	4.7	157	108 - 202
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	185.9	13.2	7.1	187	130 - 242
Beckman AU						
Beckman AU systems	33	171.1	13.1	7.7	172	119 - 223
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	208.3	10.4	5.0	203	145 - 271
Roche Integra						
Roche Integra	20	191.2	8.6	4.5	191	133 - 249
All Chemistry Instruments	21	191.0	8.5	4.4	190	133 - 249
Siemens Healthcare						
Siemens Dimension	11	203.8	14.5	7.1	207	142 - 265
Siemens Healthcare ALPi						
Siemens Dimension	26	205.1	8.4	4.1	204	143 - 267
All Chemistry Instruments	27	205.1	8.2	4.0	204	143 - 267
VITROS						
VITROS 250,350,400 500,700,750,950	31	144.9	7.7	5.3	145	101 - 189
All Chemistry Instruments	37	146.3	7.8	5.3	148	102 - 191

**AST (SGOT) (IU/L)**

<u>Instrument/Reagent</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	197	126.3	9.2	7.3	127	101 - 152	197	249.0	20.9	8.4	252	199 - 299
All Alfa Wassermann Reagents	29	120.6	4.2	3.4	120	96 - 145	30	230.7	7.7	3.3	231	184 - 277
All Horiba Pentra Reagents	19	137.9	6.0	4.4	137	110 - 166	19	263.9	10.5	4.0	264	211 - 317
All Roche Reagents	28	133.2	4.5	3.3	133	106 - 160	28	255.8	8.4	3.3	255	204 - 307
Abaxis Piccolo												
Abaxis Piccolo - waived	21	128.7	3.7	2.9	129	102 - 155	21	245.4	5.2	2.1	245	196 - 295
All Chemistry Instruments	29	128.6	3.6	2.8	129	102 - 155	29	245.3	5.4	2.2	245	196 - 295
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	120.6	4.3	3.5	120	96 - 145	24	230.9	7.3	3.2	231	184 - 278
Beckman AU												
Beckman AU systems	33	113.6	2.9	2.6	114	90 - 137	33	220.8	6.0	2.7	220	176 - 265
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	135.4	9.2	6.8	137	108 - 163	10	255.7	18.8	7.3	258	204 - 307
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	137.9	6.0	4.4	137	110 - 166	19	263.9	10.5	4.0	264	211 - 317
Roche Integra												
Roche Integra	20	133.3	4.5	3.4	133	106 - 160	20	255.3	8.7	3.4	256	204 - 307
Siemens Healthcare												
Siemens Dimension	34	127.8	3.9	3.1	127	102 - 154	35	257.5	6.5	2.5	256	206 - 310
All Chemistry Instruments	35	127.8	3.9	3.0	127	102 - 154	36	257.5	6.4	2.5	257	206 - 310
VITROS												
VITROS 250,350,400 500,700,750,950	29	125.3	4.0	3.2	126	100 - 151	31	275.2	11.6	4.2	275	220 - 331
All Chemistry Instruments	35	125.4	3.9	3.1	126	100 - 151	37	275.4	11.5	4.2	276	220 - 331

**AST (SGOT) (IU/L)**

<u>Instrument/Reagent</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	179	222.0	18.2	8.2	226	177 - 267	179	163.4	12.2	7.5	166	130 - 197
All Alfa Wassermann Reagents	30	208.2	6.3	3.0	208	166 - 250	30	155.2	5.2	3.3	154	124 - 187
All Horiba Pentra Reagents	19	236.9	10.4	4.4	236	189 - 285	19	177.1	7.1	4.0	176	141 - 213
All Roche Reagents	28	228.6	7.6	3.3	228	182 - 275	28	170.9	5.5	3.2	170	136 - 206
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	223	175 - 264	4	-	-	-	163	130 - 196
All Chemistry Instruments	11	219.3	7.3	3.3	218	175 - 264	11	162.7	4.0	2.4	162	130 - 196
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	208.0	6.7	3.2	208	166 - 250	24	155.5	5.5	3.6	155	124 - 187
Beckman AU												
Beckman AU systems	33	196.6	5.6	2.8	196	157 - 236	33	146.3	4.3	2.9	146	117 - 176
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	230.4	16.1	7.0	235	184 - 277	10	173.0	12.2	7.0	176	138 - 208
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	236.9	10.4	4.4	236	189 - 285	19	177.1	7.1	4.0	176	141 - 213
Roche Integra												
Roche Integra	20	228.2	7.9	3.5	230	182 - 274	20	170.8	5.6	3.3	172	136 - 205
Siemens Healthcare												
Siemens Dimension	35	229.3	6.0	2.6	228	183 - 276	35	168.1	4.9	2.9	168	134 - 202
All Chemistry Instruments	36	229.3	5.9	2.6	228	183 - 276	36	168.1	4.8	2.9	168	134 - 202
VITROS												
VITROS 250,350,400 500,700,750,950	31	239.7	10.6	4.4	240	191 - 288	31	168.3	7.5	4.5	168	134 - 202
All Chemistry Instruments	37	239.9	10.5	4.4	240	191 - 288	37	168.4	7.8	4.6	169	134 - 203



**AST (SGOT) (IU/L)**

**Specimen CH-15**

<u><i>Instrument/Reagent</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	178	201.2	16.2	8.1	205	160 - 242
All Alfa Wassermann Reagents	30	189.0	6.7	3.5	188	151 - 227
All Horiba Pentra Reagents	19	215.1	9.6	4.5	214	172 - 259
All Roche Reagents	28	207.7	7.1	3.4	207	166 - 250
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	199	157 - 237
All Chemistry Instruments	11	197.4	4.6	2.3	197	157 - 237
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	188.7	6.9	3.7	187	150 - 227
Beckman AU						
Beckman AU systems	33	178.8	4.9	2.8	178	143 - 215
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	204.5	24.3	11.9	210	163 - 246
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	215.1	9.6	4.5	214	172 - 259
Roche Integra						
Roche Integra	20	208.2	7.2	3.5	209	166 - 250
Siemens Healthcare						
Siemens Dimension	34	208.9	5.8	2.8	208	167 - 251
All Chemistry Instruments	35	208.8	5.8	2.8	208	167 - 251
VITROS						
VITROS 250,350,400 500,700,750,950	31	215.2	10.2	4.7	215	172 - 259
All Chemistry Instruments	37	215.7	9.9	4.6	215	172 - 259

**Creatine Kinase (IU/L)**

<u>Instrument/Reagent</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	87	48.8	4.9	10.0	49	34 - 64	89	239.5	26.2	10.9	242	167 - 312
All Alfa Wassermann Reagents	12	53.8	2.7	5.1	54	37 - 70	12	240.8	8.5	3.5	241	168 - 314
All Roche Reagents	11	52.5	1.2	2.3	53	36 - 69	11	262.9	11.4	4.3	260	184 - 342
Beckman AU												
Beckman AU systems	19	44.1	1.6	3.7	44	30 - 58	19	224.3	9.1	4.0	225	156 - 292
Siemens Healthcare CKI												
Siemens Dimension	18	50.7	2.9	5.6	50	35 - 66	18	261.8	11.2	4.3	262	183 - 341
VITROS												
All Chemistry Instruments	11	44.5	3.5	7.8	43	31 - 58	11	203.9	13.9	6.8	207	142 - 266
	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
All Method	88	201.1	19.0	9.5	205	140 - 262	87	110.9	9.3	8.4	113	77 - 145
All Alfa Wassermann Reagents	12	203.0	8.5	4.2	206	142 - 264	12	113.0	6.1	5.4	115	79 - 147
All Roche Reagents	11	219.8	7.2	3.3	222	153 - 286	11	119.7	3.3	2.7	120	83 - 156
Beckman AU												
Beckman AU systems	18	186.9	4.2	2.2	188	130 - 243	18	101.3	2.4	2.4	102	70 - 132
Siemens Healthcare CKI												
Siemens Dimension	18	216.8	8.3	3.8	217	151 - 282	18	118.1	4.3	3.7	118	82 - 154
VITROS												
All Chemistry Instruments	11	178.9	10.8	6.0	178	125 - 233	11	103.6	5.5	5.3	106	72 - 135
	<b>Specimen CH-15</b>											
All Method	87	170.1	15.1	8.9	173	119 - 222						
All Alfa Wassermann Reagents	12	172.3	4.2	2.5	173	120 - 225						
All Roche Reagents	11	184.3	6.8	3.7	183	128 - 240						
Beckman AU												
Beckman AU systems	18	157.3	4.6	2.9	157	110 - 205						
Siemens Healthcare CKI												
Siemens Dimension	18	183.3	7.1	3.9	185	128 - 239						
VITROS												
All Chemistry Instruments	11	153.0	7.4	4.8	153	107 - 199						

**GGT (IU/L)**

<u><i>Instrument/Reagent</i></u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	52	29.2	7.5	25.8	26	14 - 45	52	158.1	34.0	21.5	145	90 - 226
All Roche Reagents	12	24.6	0.7	2.7	25	19 - 30	12	142.5	3.8	2.7	144	114 - 171
Beckman AU												
Beckman AU systems	11	22.8	1.0	4.3	23	18 - 28	11	128.6	5.5	4.3	129	102 - 155
Siemens Healthcare												
All Chemistry Instruments	10	39.0	2.7	7.0	39	31 - 47	10	191.7	4.1	2.2	193	153 - 231
	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
All Method	49	130.6	29.8	22.8	118	70 - 191	49	70.5	17.0	24.2	62	36 - 105
All Roche Reagents	12	115.8	3.0	2.6	117	92 - 139	12	61.2	1.9	3.1	62	48 - 74
Beckman AU												
Beckman AU systems	11	104.7	4.2	4.0	105	83 - 126	11	55.6	2.2	4.0	55	44 - 67
Siemens Healthcare												
All Chemistry Instruments	10	157.8	2.7	1.7	158	126 - 190	10	87.0	2.1	2.4	87	69 - 105
	<b>Specimen CH-15</b>											
All Method	49	110.7	26.2	23.7	99	58 - 164						
All Roche Reagents	12	97.8	2.7	2.7	99	78 - 118						
Beckman AU												
Beckman AU systems	11	88.3	3.7	4.2	88	70 - 106						
Siemens Healthcare												
All Chemistry Instruments	10	134.0	3.3	2.5	133	107 - 161						

**Amylase (IU/L)**

<u>Instrument/Reagent</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	71	27.8	3.5	12.5	29	19 - 37	72	124.4	23.7	19.1	133	87 - 162
All Roche Reagents	11	28.9	0.5	1.9	29	20 - 38	11	134.2	2.0	1.5	135	93 - 175
Beckman AU												
Beckman AU systems	15	21.8	0.8	3.6	22	15 - 29	14	109.1	2.6	2.4	110	76 - 142
Siemens Healthcare												
Siemens Dimension	11	28.7	1.2	4.1	29	20 - 38	11	149.5	3.1	2.1	149	104 - 195
VITROS												
VITROS 250,350,400 500,700,750,950	10	30.0	0.1	0.0	30	21 - 39	10	83.5	3.1	3.7	84	58 - 109
All Chemistry Instruments	13	30.0	0.1	0.0	30	21 - 39	13	85.2	5.6	6.6	84	59 - 111
	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
All Method	68	102.0	20.0	19.6	110	71 - 133	67	55.5	11.6	21.0	59	38 - 73
All Roche Reagents	11	110.7	1.8	1.6	111	77 - 144	10	61.2	1.0	1.7	62	42 - 80
Beckman AU												
Beckman AU systems	15	90.5	3.6	3.9	91	63 - 118	15	49.6	2.2	4.4	49	34 - 65
Siemens Healthcare												
Siemens Dimension	11	122.3	2.8	2.3	123	85 - 159	11	66.8	1.4	2.1	67	46 - 87
VITROS												
VITROS 250,350,400 500,700,750,950	10	70.6	3.6	5.1	70	49 - 92	10	37.5	4.0	10.8	36	26 - 49
All Chemistry Instruments	13	70.6	5.2	7.4	69	49 - 92	13	37.2	4.8	12.9	36	26 - 49
	<b>Specimen CH-15</b>											
All Method	68	85.8	17.5	20.4	92	60 - 112						
All Roche Reagents	11	93.2	1.5	1.6	94	65 - 122						
Beckman AU												
Beckman AU systems	14	75.9	1.9	2.6	77	53 - 99						
Siemens Healthcare												
Siemens Dimension	11	103.6	2.7	2.6	104	72 - 135						
VITROS												
VITROS 250,350,400 500,700,750,950	10	58.6	3.6	6.2	59	41 - 77						
All Chemistry Instruments	13	58.1	5.8	9.9	58	40 - 76						

## Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</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	48	203.2	23.0	11.3	216	162 - 244	48	575.5	62.9	10.9	611	460 - 691
All Horiba Pentra Reagents	11	217.7	14.9	6.8	212	174 - 262	11	620.0	25.0	4.0	626	496 - 744
All Roche Reagents	18	222.0	4.8	2.2	222	177 - 267	18	617.6	17.9	2.9	616	494 - 742
Beckman AU												
Beckman AU systems	12	176.8	10.2	5.8	179	141 - 213	12	506.3	29.5	5.8	512	405 - 608
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	217.7	14.9	6.8	212	174 - 262	10	620.0	25.0	4.0	626	496 - 744
Roche cobas c 501												
Roche cobas 6000 / c 501	10	223.8	6.0	2.7	225	179 - 269	10	633.2	18.5	2.9	628	506 - 760
Roche Integra												
Roche Integra	11	221.2	4.3	1.9	221	176 - 266	11	608.8	11.9	2.0	610	487 - 731
Siemens Healthcare LDI												
Siemens Dimension	11	205.6	12.8	6.2	204	164 - 247	11	611.6	32.2	5.3	621	489 - 734
VITROS												
VITROS 250,350,400 500,700,750,950	12	665.8	20.1	3.0	661	532 - 799	12	1858.3	63.5	3.4	1844	1486 - 2230
VITROS 5600	10	671.8	11.4	1.7	674	537 - 807	10	1810.5	54.5	3.0	1802	1448 - 2173
All Chemistry Instruments	22	668.2	16.7	2.5	670	534 - 802	22	1839.2	62.0	3.4	1809	1471 - 2208

## Lactate Dehydrogenase (IU/L)

	Specimen CH-13						Specimen CH-14					
All Method	48	492.6	53.7	10.9	524	394 - 592	48	320.2	34.6	10.8	339	256 - 385
All Horiba Pentra Reagents	11	533.0	18.9	3.5	529	426 - 640	11	343.0	16.6	4.8	345	274 - 412
All Roche Reagents	18	532.9	13.4	2.5	534	426 - 640	18	347.1	8.1	2.3	347	277 - 417
Beckman AU												
Beckman AU systems	12	434.3	26.6	6.1	438	347 - 522	12	280.5	16.4	5.8	282	224 - 337
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	533.0	18.9	3.5	529	426 - 640	10	343.0	16.6	4.8	345	274 - 412
Roche cobas c 501												
Roche cobas 6000 / c 501	10	543.3	15.8	2.9	542	434 - 652	10	348.5	10.7	3.1	349	278 - 419
Roche Integra												
Roche Integra	11	527.0	8.9	1.7	526	421 - 633	11	346.5	7.2	2.1	348	277 - 416
Siemens Healthcare LDI												
Siemens Dimension	11	502.8	18.8	3.7	502	402 - 604	11	329.8	17.2	5.2	325	263 - 396
VITROS												
VITROS 250,350,400 500,700,750,950	12	1592.2	45.7	2.9	1578	1273 - 1911	12	1012.0	27.2	2.7	1017	809 - 1215
VITROS 5600	10	1531.3	42.8	2.8	1536	1225 - 1838	10	1027.0	31.6	3.1	1019	821 - 1233
All Chemistry Instruments	22	1567.8	52.5	3.3	1569	1254 - 1882	22	1018.0	28.3	2.8	1019	814 - 1222

	Specimen CH-15					
All Method	48	432.2	46.4	10.7	458	345 - 519
All Horiba Pentra Reagents	11	458.2	17.6	3.9	458	366 - 550
All Roche Reagents	18	468.9	11.9	2.5	471	375 - 563
Beckman AU						
Beckman AU systems	12	381.9	24.4	6.4	381	305 - 459
Horiba ABX Pentra						
Horiba ABX Pentra 400	10	458.2	17.6	3.9	458	366 - 550
Roche cobas c 501						
Roche cobas 6000 / c 501	10	475.7	17.3	3.6	474	380 - 571
Roche Integra						
Roche Integra	11	465.1	6.8	1.5	465	372 - 559
Siemens Healthcare LDI						
Siemens Dimension	11	440.8	17.0	3.9	440	352 - 529
VITROS						
VITROS 250,350,400 500,700,750,950	12	1386.3	45.2	3.3	1391	1109 - 1664
VITROS 5600	10	1385.5	26.2	1.9	1386	1108 - 1663
All Chemistry Instruments	22	1386.0	36.9	2.7	1386	1108 - 1664

**Lipase (IU/L)**

**Specimen CH-11**

**Specimen CH-12**

<u>Instrument/Reagent</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	25	14.4	2.1	14.8	16	10 - 19	27	46.0	6.8	14.8	52	32 - 60
All Roche Reagents	11	15.1	1.0	6.6	16	10 - 20	8	43.1	2.4	5.6	43	30 - 57
Beckman AU												
Beckman AU systems	10	16.5	4.6	27.6	16	11 - 22	10	50.6	2.8	5.5	52	35 - 66
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	11.4	2.2	19.2	12	7 - 15	10	35.4	3.0	8.4	35	24 - 47
Siemens Healthcare												
Siemens Dimension	11	63.7	4.7	7.4	65	44 - 83	11	180.9	13.4	7.4	181	126 - 236
VITROS												
VITROS 250,350,400 500,700,750,950	10	135.6	4.2	3.1	136	94 - 177	10	491.4	19.9	4.0	498	343 - 639
All Chemistry Instruments	12	139.7	12.5	9.0	136	97 - 182	12	497.3	29.1	5.8	498	348 - 647

**Specimen CH-13**

**Specimen CH-14**

All Method	27	40.0	6.6	16.5	44	28 - 53	27	25.3	4.3	16.9	28	17 - 33
All Roche Reagents	11	39.8	7.6	19.1	38	27 - 52	11	24.4	1.6	6.6	24	17 - 32
Beckman AU												
Beckman AU systems	10	43.0	2.2	5.0	43	30 - 56	10	27.0	2.6	9.7	27	18 - 36
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	30.6	2.3	7.5	31	21 - 40	10	19.2	1.8	9.3	19	13 - 25
Siemens Healthcare												
Siemens Dimension	11	155.4	11.2	7.2	156	108 - 203	11	102.1	5.8	5.6	103	71 - 133
VITROS												
VITROS 250,350,400 500,700,750,950	10	419.4	16.6	4.0	420	293 - 546	10	255.2	6.1	2.4	258	178 - 332
All Chemistry Instruments	12	425.1	23.1	5.4	420	297 - 553	12	261.4	16.9	6.5	258	183 - 340

**Specimen CH-15**

All Method	27	34.5	5.5	15.9	39	24 - 45
All Roche Reagents	11	32.6	1.8	5.7	33	22 - 43
Beckman AU						
Beckman AU systems	10	37.3	3.1	8.3	37	26 - 49
Horiba ABX Pentra						
Horiba ABX Pentra 400	10	26.4	1.8	6.9	26	18 - 35
Siemens Healthcare						
Siemens Dimension	11	137.9	6.8	4.9	138	96 - 180
VITROS						
VITROS 250,350,400 500,700,750,950	10	366.0	13.5	3.7	368	256 - 476
All Chemistry Instruments	12	372.1	20.0	5.4	368	260 - 484

**Alpha-fetoprotein (AFP) (ng/mL)**

<u>Method</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	37.98	4.41	11.6	38.7	24.7 - 51.3	5	268.84	30.11	11.2	265.7	178.5 - 359.2
<u>Method</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	218.48	24.80	11.4	211.8	144.0 - 292.9	5	110.30	12.76	11.6	108.9	72.0 - 148.6
<u>Method</u>	<b>Specimen CH-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	180.94	19.65	10.9	179.3	121.9 - 239.9						

**Cortisol (µg/dL)**

<u>Method</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	8.19	0.59	7.2	8.4	6.1 - 10.3	11	27.52	3.22	11.7	27.1	20.6 - 34.5
<u>Method</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	22.99	2.29	10.0	22.1	17.2 - 28.8	11	14.17	0.84	6.0	13.9	10.6 - 17.8
<u>Method</u>	<b>Specimen CH-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	20.22	2.20	10.9	19.8	15.1 - 25.3						



### T<sub>3</sub> Uptake (percent)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<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	51.41	3.92	7.6	51.8	39.6 - 63.2	16	43.51	3.82	8.8	42.6	32.0 - 55.0
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<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	44.27	3.88	8.8	43.7	32.6 - 56.0	16	48.19	3.69	7.7	48.1	37.1 - 59.3
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	16	45.85	3.76	8.2	44.9	34.5 - 57.2						

### Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<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	1.11	0.10	9.2	1.2	0.8 - 1.5	24	1.81	0.45	24.9	2.0	0.4 - 3.2
All Abbott Instruments	10	1.04	0.11	11.0	1.0	0.6 - 1.4	10	1.36	0.09	6.6	1.3	1.0 - 1.7
All TOSOH Instruments	11	2.61	0.41	15.7	2.5	1.3 - 3.9	11	4.88	0.68	14.0	4.7	2.8 - 7.0
Abbott Architect	10	1.04	0.11	11.0	1.0	0.6 - 1.4	10	1.36	0.09	6.6	1.3	1.0 - 1.7
Beckman ACCESS / 2 / Dxl	13	1.12	0.10	8.8	1.1	0.8 - 1.5	13	2.05	0.29	14.1	2.0	1.1 - 3.0
TOSOH ST AIA PACK	10	2.56	0.42	16.6	2.5	1.2 - 3.9	10	4.79	0.70	14.7	4.7	2.6 - 6.9
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<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	1.67	0.37	22.1	1.9	0.5 - 2.8	24	1.36	0.27	19.9	1.5	0.5 - 2.2
All Abbott Instruments	10	1.36	0.09	6.6	1.3	1.0 - 1.7	10	1.26	0.18	14.4	1.3	0.7 - 1.9
All TOSOH Instruments	11	4.53	0.79	17.4	4.1	2.1 - 6.9	11	3.61	0.52	14.4	3.4	2.0 - 5.2
Abbott Architect	10	1.36	0.09	6.6	1.3	1.0 - 1.7	10	1.26	0.18	14.4	1.3	0.7 - 1.9
Beckman ACCESS / 2 / Dxl	13	1.83	0.22	11.9	1.8	1.1 - 2.5	13	1.38	0.12	8.8	1.4	1.0 - 1.8
TOSOH ST AIA	10	4.39	0.72	16.5	4.1	2.2 - 6.6	10	3.50	0.46	13.2	3.3	2.1 - 4.9
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	24	1.60	0.24	15.0	1.7	0.8 - 2.4						
All Abbott Instruments	10	1.38	0.08	6.1	1.4	1.1 - 1.7						
All TOSOH Instruments	11	4.23	0.79	18.7	4.0	1.8 - 6.7						
Abbott Architect	10	1.38	0.08	6.1	1.4	1.1 - 1.7						
Beckman ACCESS / 2 / Dxl	13	1.66	0.16	9.7	1.6	1.1 - 2.2						
TOSOH ST AIA	10	4.10	0.79	19.2	3.9	1.7 - 6.5						

**Free T<sub>3</sub> (pg/mL)**

<u>Method</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	34	3.26	0.55	16.8	3.3	1.6 - 4.9	34	5.34	0.80	15.1	5.3	2.9 - 7.8
All Roche Instruments	11	3.34	0.32	9.6	3.3	2.3 - 4.4	11	6.64	0.44	6.6	6.5	5.3 - 8.0
All TOSOH Instruments	12	5.39	1.06	19.7	5.2	2.1 - 8.6	12	11.34	0.62	5.5	11.4	9.4 - 13.3
Beckman ACCESS / 2 / Dxl	16	3.13	0.33	10.4	3.3	2.1 - 4.2	16	5.02	0.34	6.8	5.0	3.9 - 6.1
TOSOH ST AIA PACK	10	5.20	0.98	18.8	5.2	2.2 - 8.2	10	11.32	0.83	7.3	11.2	8.8 - 13.9

  

<u>Method</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	34	5.06	0.71	14.0	4.9	2.9 - 7.2	34	4.44	0.71	16.0	4.7	2.3 - 6.6
All Abbott Instruments	11	6.12	0.33	5.5	6.0	5.1 - 7.2	11	5.02	0.36	7.2	5.0	3.9 - 6.2
All TOSOH Instruments	12	10.37	0.83	8.0	10.5	7.8 - 12.9	12	8.76	0.52	6.0	8.9	7.1 - 10.4
Beckman ACCESS / 2 / Dxl	16	4.75	0.14	3.0	4.8	4.3 - 5.2	16	4.21	0.29	6.8	4.2	3.3 - 5.1
TOSOH ST AIA	10	10.22	1.06	10.4	10.2	7.0 - 13.4	10	8.65	0.59	6.8	8.6	6.8 - 10.5

  

<u>Method</u>	<b>Specimen CH-15</b>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	34	4.82	0.74	15.4	4.9	2.5 - 7.1
All Abbott Instruments	11	5.80	0.37	6.5	5.8	4.6 - 7.0
All TOSOH Instruments	12	9.90	0.52	5.3	10.1	8.3 - 11.5
Beckman ACCESS / 2 / Dxl	16	4.69	0.20	4.3	4.7	4.0 - 5.3
TOSOH ST AIA	10	9.77	0.63	6.4	9.7	7.8 - 11.7

**Thyroxine (µg/dL)**

<u>Method</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	8.70	0.72	8.3	9.2	6.9 - 10.5	19	13.92	1.06	7.6	14.1	11.1 - 16.7
All TOSOH Instruments	10	8.81	0.63	7.1	8.6	7.0 - 10.6	10	14.00	0.78	5.6	14.0	11.2 - 16.8
Beckman ACCESS / 2 / Dxl	11	10.09	0.74	7.4	10.2	8.0 - 12.2	11	14.00	0.98	7.0	14.1	11.2 - 16.8

  

<u>Method</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	12.75	0.92	7.2	13.0	10.2 - 15.4	20	10.25	0.85	8.3	10.7	8.1 - 12.3
All TOSOH Instruments	10	12.82	0.62	4.8	12.8	10.2 - 15.4	10	10.13	0.78	7.7	10.3	8.1 - 12.2
Beckman ACCESS / 2 / Dxl	11	13.29	1.21	9.1	13.2	10.6 - 16.0	11	11.75	0.78	6.7	11.8	9.4 - 14.2

  

<u>Method</u>	<b>Specimen CH-15</b>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	11.84	0.88	7.5	12.2	9.4 - 14.3
All TOSOH Instruments	10	11.88	0.80	6.7	11.8	9.5 - 14.3
Beckman ACCESS / 2 / Dxl	11	12.62	0.83	6.6	12.5	10.0 - 15.2

**Free Thyroxine (ng/dL)**

<u>Method</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	150	4.42	1.08	24.4	4.2	1.1 - 7.7	145	3.80	0.90	23.6	3.9	1.1 - 6.5
All TOSOH Instruments	32	5.10	0.45	8.9	5.1	3.7 - 6.5	32	4.64	0.41	8.8	4.7	3.4 - 5.9
Abbott Architect	12	3.57	0.25	7.0	3.6	2.8 - 4.4	12	3.98	0.25	6.3	4.0	3.2 - 4.8
Beckman ACCESS / 2 / Dxl	50	3.52	0.22	6.1	3.5	2.8 - 4.2	48	2.84	0.15	5.1	2.8	2.4 - 3.3
Siemens Dimension	23	5.23	0.72	13.7	5.5	3.0 - 7.4	23	4.22	0.26	6.1	4.2	3.4 - 5.0
TOSOH AIA PACK	14	5.00	0.45	9.0	5.1	3.6 - 6.4	15	4.55	0.41	9.0	4.4	3.3 - 5.8
TOSOH ST AIA PACK	18	5.18	0.45	8.7	5.1	3.8 - 6.6	17	4.73	0.40	8.4	4.7	3.5 - 6.0

  

<u>Method</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	3.79	0.80	21.0	4.0	1.4 - 6.2	150	4.15	1.01	24.3	4.1	1.1 - 7.2
All TOSOH Instruments	33	4.63	0.41	8.8	4.7	3.4 - 5.9	33	4.81	0.43	9.0	4.8	3.5 - 6.2
Abbott Architect	12	3.95	0.19	4.8	4.0	3.3 - 4.6	12	3.77	0.14	3.6	3.8	3.3 - 4.2
Beckman ACCESS / 2 / Dxl	50	2.89	0.13	4.5	2.9	2.4 - 3.3	49	3.18	0.16	4.9	3.2	2.7 - 3.7
Siemens Dimension	23	4.33	0.25	5.9	4.4	3.5 - 5.1	22	4.80	0.46	9.6	4.9	3.4 - 6.2
TOSOH AIA PACK	15	4.55	0.39	8.6	4.7	3.3 - 5.8	15	4.72	0.44	9.4	4.8	3.3 - 6.1
TOSOH ST AIA PACK	18	4.71	0.42	8.9	4.8	3.4 - 6.0	18	4.88	0.43	8.7	4.9	3.6 - 6.2

  

<u>Method</u>	<b>Specimen CH-15</b>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	144	3.84	0.79	20.6	4.0	1.4 - 6.3
All TOSOH Instruments	33	4.68	0.41	8.7	4.8	3.4 - 6.0
Abbott Architect	12	3.90	0.18	4.6	3.9	3.3 - 4.5
Beckman ACCESS / 2 / Dxl	50	2.96	0.16	5.5	3.0	2.4 - 3.5
Siemens Dimension	23	4.40	0.31	7.1	4.4	3.4 - 5.4
TOSOH AIA PACK	15	4.57	0.39	8.6	4.5	3.3 - 5.8
TOSOH ST AIA PACK	18	4.77	0.41	8.5	4.9	3.5 - 6.0

**TSH (μU/mL)**

<u>Method</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	181	1.33	0.21	15.6	1.3	0.7 - 2.0	185	6.70	1.03	15.3	6.5	3.6 - 9.8
All Abbott Instruments	13	1.18	0.04	3.7	1.2	1.0 - 1.4	13	5.99	0.31	5.1	6.1	5.0 - 7.0
All Roche Instruments	11	1.43	0.06	4.5	1.4	1.2 - 1.7	11	6.45	0.28	4.3	6.5	5.6 - 7.3
All TOSOH Instruments	46	1.58	0.14	9.1	1.6	1.1 - 2.1	45	7.83	0.49	6.2	7.9	6.3 - 9.3
Abbott Architect	13	1.18	0.04	3.7	1.2	1.0 - 1.4	13	5.99	0.31	5.1	6.1	5.0 - 7.0
Beckman ACCESS / 2 / Dxl	59	1.18	0.09	7.4	1.2	0.9 - 1.5	57	6.08	0.43	7.0	6.1	4.8 - 7.4
Siemens Dimension	27	1.26	0.11	9.1	1.2	0.9 - 1.7	27	6.40	0.78	12.2	6.0	4.0 - 8.8
TOSOH AIA PACK	17	1.55	0.14	9.2	1.6	1.1 - 2.0	18	7.70	0.62	8.1	7.7	5.8 - 9.6
TOSOH ST AIA PACK	29	1.60	0.14	8.9	1.6	1.1 - 2.1	27	7.91	0.36	4.5	7.9	6.8 - 9.0

<u>Method</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	183	5.58	0.83	14.8	5.4	3.1 - 8.1	181	3.10	0.45	14.5	3.0	1.7 - 4.5
All Abbott Instruments	13	4.97	0.23	4.7	5.0	4.2 - 5.7	13	2.72	0.08	3.1	2.7	2.4 - 3.0
All Roche Instruments	11	5.45	0.24	4.4	5.4	4.7 - 6.2	11	3.15	0.12	3.9	3.1	2.7 - 3.6
All TOSOH Instruments	47	6.50	0.53	8.2	6.6	4.9 - 8.2	47	3.63	0.30	8.4	3.7	2.7 - 4.6
Abbott Architect	13	4.97	0.23	4.7	5.0	4.2 - 5.7	13	2.72	0.08	3.1	2.7	2.4 - 3.0
Beckman ACCESS / 2 / Dxl	59	5.06	0.35	7.0	5.0	4.0 - 6.2	59	2.77	0.15	5.6	2.8	2.3 - 3.3
Siemens Dimension	27	5.27	0.70	13.3	5.0	3.1 - 7.4	26	2.89	0.32	11.1	2.8	1.9 - 3.9
TOSOH AIA PACK	18	6.34	0.58	9.2	6.5	4.5 - 8.1	18	3.55	0.32	9.1	3.6	2.5 - 4.6
TOSOH ST AIA PACK	28	6.66	0.40	6.0	6.6	5.4 - 7.9	29	3.68	0.29	7.8	3.7	2.8 - 4.6

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
<b>Specimen CH-15</b>						
All Method	182	4.80	0.68	14.2	4.5	2.7 - 6.9
All Abbott Instruments	13	4.18	0.20	4.9	4.3	3.5 - 4.8
All Roche Instruments	11	4.68	0.19	4.0	4.6	4.1 - 5.3
All TOSOH Instruments	45	5.55	0.36	6.5	5.6	4.4 - 6.7
Abbott Architect	13	4.18	0.20	4.9	4.3	3.5 - 4.8
Beckman ACCESS / 2 / Dxl	59	4.32	0.27	6.3	4.3	3.5 - 5.2
Siemens Dimension	27	4.54	0.53	11.8	4.3	2.9 - 6.2
TOSOH AIA PACK	18	5.43	0.44	8.0	5.5	4.1 - 6.8
TOSOH ST AIA PACK	27	5.63	0.28	5.0	5.6	4.7 - 6.5

**Serum hCG – Qualitative**

<b><u>Method</u></b>	<b>Specimen HCG-11</b>		<b>Specimen HCG-12</b>	
	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
ALL METHODS	142	1	1	142
AimStep Combo Pregnancy	1	-	-	1
Alere hCG Cassette	2	-	-	2
Beckman ACCESS / 2 / Dxl	1	-	-	1
Beckman Coulter ICON 20 hCG	68	-	-	68
Beckman Coulter ICON 25 hCG	4	-	-	4
BTNX Rapid Response hCG	2	-	-	2
Cardinal Health SP Brand combo	11	-	-	11
CONSULT diagnostics hCG Combo	11	-	-	11
Henry Schein One Step + Combo	5	-	-	5
i-STAT - moderate	2	-	-	2
McKesson hCG Combo Cassette	1	-	-	1
Medline hCG Combo Test Cassette	2	-	-	2
NDC Pro Advantage	1	-	-	1
PSS Select hCG Combo	2	-	-	2
Quidel QuickVue + One-Step	7	-	-	7
Quidel QuickVue One-Step Combo	14	1	1	14
Quidel QuickVue Semi-Q hCG	1	-	-	1
Sekisui OSOM hCG Combo Test	2	-	-	2
Stanbio QUPID Plus	3	-	-	3
TOSOH ST AIA PACK	1	-	-	1

**Serum hCG – Qualitative**

	Specimen HCG-13		Specimen HCG-14	
ALL METHODS	141	2	143	-
AimStep Combo Pregnancy	1	-	1	-
Alere hCG Cassette	2	-	2	-
Beckman ACCESS / 2 / Dxl	1	-	1	-
Beckman Coulter ICON 20 hCG	67	1	68	-
Beckman Coulter ICON 25 hCG	4	-	4	-
BTNX Rapid Response hCG	2	-	2	-
Cardinal Health SP Brand combo	11	-	11	-
CONSULT diagnostics hCG Combo	11	-	11	-
Henry Schein One Step + Combo	5	-	5	-
i-STAT - moderate	2	-	2	-
McKesson hCG Combo Cassette	1	-	1	-
Medline hCG Combo Test Cassette	2	-	2	-
NDC Pro Advantage	1	-	1	-
PSS Select hCG Combo	2	-	2	-
Quidel QuickVue + One-Step	7	-	7	-
Quidel QuickVue One-Step Combo	14	1	15	-
Quidel QuickVue Semi-Q hCG	1	-	1	-
Sekisui OSOM hCG Combo Test	2	-	2	-
Stanbio QUPID Plus	3	-	3	-
TOSOH ST AIA PACK	1	-	1	-

**Serum hCG – Qualitative**

**Specimen HCG-15**

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	142
AimStep Combo Pregnancy	-	1
Alere hCG Cassette	-	2
Beckman ACCESS / 2 / DxI	-	1
Beckman Coulter ICON 20 hCG	1	67
Beckman Coulter ICON 25 hCG	-	4
BTNX Rapid Response hCG	-	2
Cardinal Health SP Brand combo	-	11
CONSULT diagnostics hCG Combo	-	11
Henry Schein One Step + Combo	-	5
i-STAT - moderate	-	2
McKesson hCG Combo Cassette	-	1
Medline hCG Combo Test Cassette	-	2
NDC Pro Advantage	-	1
PSS Select hCG Combo	-	2
Quidel QuickVue + One-Step	-	7
Quidel QuickVue One-Step Combo	-	15
Quidel QuickVue Semi-Q hCG	-	1
Sekisui OSOM hCG Combo Test	-	2
Stanbio QUPID Plus	-	3
TOSOH ST AIA PACK	-	1

**Serum hCG – Quantitative (mIU/mL)**

<u>Method</u>	<b>Specimen HCG-11</b>						<b>Specimen HCG-12</b>					
	<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	21	1135.2	216.3	19.1	1086	486 - 1785	21	1.3	1.4	109.7	1	0 - 6
<u>Method</u>	<b>Specimen HCG-13</b>						<b>Specimen HCG-14</b>					
	<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	21	1616.8	289.5	17.9	1555	748 - 2486	21	66.5	8.1	12.2	66	42 - 91
<u>Method</u>	<b>Specimen HCG-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	21	1.3	1.4	103.5	1	0 - 6						

**Cholesterol, Total (mg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<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	213	77.2	12.6	16.3	74	69 - 85	211	176.1	6.5	3.7	175	158 - 194
All Alfa Wassermann Reagents	28	78.0	1.9	2.4	78	70 - 86	28	180.8	4.8	2.6	182	162 - 199
All Horiba Pentra Reagents	11	74.1	2.3	3.1	74	66 - 82	11	174.0	4.0	2.3	174	156 - 192
All Roche Reagents	18	74.8	2.8	3.7	75	67 - 83	18	175.8	4.9	2.8	177	158 - 194
Alere Cholestech LDX												
Alere Cholestech LDX - waived	37	100.0	0.1	0.0	100	90 - 110	39	182.6	7.5	4.1	184	164 - 201
All Chemistry Instruments	38	100.0	0.1	0.0	100	90 - 110	40	182.8	7.4	4.1	184	164 - 202
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	27	78.0	1.9	2.4	78	70 - 86	27	180.4	4.5	2.5	181	162 - 199
Beckman AU												
Beckman AU systems	28	71.7	2.0	2.8	72	64 - 79	28	171.8	4.5	2.6	173	154 - 189
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	75.4	3.6	4.7	75	67 - 83	10	178.0	7.5	4.2	178	160 - 196
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	74.1	2.3	3.1	74	66 - 82	11	174.0	4.0	2.3	174	156 - 192
Roche Integra												
Roche Integra	12	73.8	1.9	2.5	74	66 - 82	12	174.8	4.8	2.7	175	157 - 193
All Chemistry Instruments	13	74.2	2.1	2.9	74	66 - 82	13	175.0	4.6	2.6	175	157 - 193
Siemens Healthcare												
Siemens Dimension	30	71.8	1.9	2.6	72	64 - 79	31	172.6	4.0	2.3	172	155 - 190
All Chemistry Instruments	33	71.7	2.6	3.6	72	64 - 79	33	172.5	3.9	2.3	172	155 - 190
VITROS												
VITROS 250,350,400 500,700,750,950	24	60.5	4.7	7.7	59	54 - 67	24	173.6	5.5	3.2	174	156 - 191
All Chemistry Instruments	28	60.3	5.2	8.6	59	54 - 67	27	173.8	5.2	3.0	174	156 - 192



**Cholesterol, Total (mg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<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	171	151.9	5.0	3.3	151	136 - 168	171	104.4	4.7	4.5	104	93 - 115
All Alfa Wassermann Reagents	27	156.7	3.9	2.5	156	141 - 173	28	109.4	3.0	2.7	110	98 - 121
All Horiba Pentra Reagents	11	151.8	3.5	2.3	153	136 - 168	11	105.3	2.5	2.4	105	94 - 116
All Roche Reagents	18	153.6	4.6	3.0	154	138 - 169	17	106.2	2.8	2.6	107	95 - 117
Alere Cholestech LDX												
Alere Cholestech LDX - waived	4	-	-	-	158	143 - 176	4	-	-	-	108	95 - 117
All Chemistry Instruments	5	-	-	-	160	143 - 176	5	-	-	-	107	95 - 117
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	156.6	4.0	2.5	156	140 - 173	27	109.1	2.7	2.5	109	98 - 121
Beckman AU												
Beckman AU systems	28	149.4	3.7	2.5	150	134 - 165	28	102.6	2.4	2.4	103	92 - 113
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	154.7	6.7	4.3	154	139 - 171	10	109.7	7.6	6.9	106	98 - 121
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	151.8	3.5	2.3	153	136 - 168	11	105.3	2.5	2.4	105	94 - 116
Roche Integra												
Roche Integra	12	152.3	3.9	2.6	153	137 - 168	12	105.7	2.8	2.7	105	95 - 117
All Chemistry Instruments	13	152.5	3.9	2.5	153	137 - 168	13	105.8	2.7	2.6	105	95 - 117
Siemens Healthcare												
Siemens Dimension	31	149.6	3.3	2.2	149	134 - 165	31	102.7	2.8	2.8	102	92 - 113
All Chemistry Instruments	33	149.3	3.5	2.4	149	134 - 165	32	102.5	3.0	2.9	102	92 - 113
VITROS												
VITROS 250,350,400 500,700,750,950	24	149.7	4.6	3.1	149	134 - 165	24	100.0	4.0	4.0	99	89 - 110
All Chemistry Instruments	27	149.7	4.4	2.9	149	134 - 165	27	99.9	3.9	3.9	99	89 - 110

**Cholesterol, Total (mg/dL)****Specimen CH-15**

<b><u>Reagent/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	172	136.0	5.1	3.7	136	122 - 150
All Alfa Wassermann Reagents	28	141.3	3.9	2.8	141	127 - 156
All Horiba Pentra Reagents	11	135.6	4.1	3.0	136	122 - 150
All Roche Reagents	18	137.7	4.5	3.3	137	123 - 152
Alere Cholestech LDX						
Alere Cholestech LDX - waived	4	-	-	-	142	129 - 159
All Chemistry Instruments	5	-	-	-	142	129 - 159
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	27	140.9	3.6	2.6	141	126 - 156
Beckman AU						
Beckman AU systems	28	133.3	3.5	2.6	134	119 - 147
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	138.4	5.1	3.7	138	124 - 153
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	135.6	4.1	3.0	136	122 - 150
Roche Integra						
Roche Integra	12	136.9	4.3	3.1	136	123 - 151
All Chemistry Instruments	13	137.2	4.2	3.0	136	123 - 151
Siemens Healthcare						
Siemens Dimension	31	133.8	3.4	2.5	134	120 - 148
All Chemistry Instruments	33	133.7	3.3	2.5	134	120 - 148
VITROS						
VITROS 250,350,400 500,700,750,950	24	133.5	4.9	3.7	133	120 - 147
All Chemistry Instruments	27	133.4	4.6	3.5	133	120 - 147

**LDL Cholesterol - Calculated (mg/dL)**

<u>Method</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	14.4	8.0	55.6	17	0 - 31	115	39.9	20.4	51.1	44	0 - 81
Calculated-Trig/5												
Alfa Wassermann ACE Alera/Axcel	19	20.8	2.6	12.7	21	14 - 28	18	63.7	3.2	5.1	64	44 - 83
Beckman AU systems	20	16.3	3.2	19.5	16	9 - 23	20	46.3	4.1	8.8	46	32 - 61
Siemens Dimension	8	-	-	-	1	0 - 31	12	8.9	4.9	54.6	9	0 - 19
VITROS 250,350,400 500,700,750,950	11	2.3	3.0	133.6	0	0 - 9	18	17.8	5.9	33.3	17	5 - 30
All Chemistry Instruments	96	14.5	8.0	55.2	17	0 - 31	107	40.3	20.3	50.4	44	0 - 81
	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
All Method	116	32.9	17.4	52.8	38	0 - 68	114	21.9	11.3	51.7	25	0 - 45
Calculated-Trig/5												
Alfa Wassermann ACE Alera/Axcel	19	52.2	5.1	9.7	53	36 - 68	19	32.3	3.0	9.2	32	22 - 43
Beckman AU systems	20	39.0	3.8	9.8	39	27 - 51	19	25.4	1.8	7.2	25	17 - 33
Siemens Dimension	11	6.1	4.4	72.1	6	0 - 15	9	-	-	-	1	0 - 45
VITROS 250,350,400 500,700,750,950	19	15.3	4.5	29.8	16	6 - 25	19	10.2	2.8	27.9	10	4 - 16
All Chemistry Instruments	108	33.2	17.3	52.0	38	0 - 68	107	22.0	11.3	51.4	25	0 - 45
	<b>Specimen CH-15</b>											
All Method	116	29.2	15.3	52.6	34	0 - 60						
Calculated-Trig/5												
Alfa Wassermann ACE Alera/Axcel	19	45.5	4.9	10.7	47	31 - 60						
Beckman AU systems	20	34.9	3.5	10.1	35	24 - 46						
Siemens Dimension	11	3.8	2.7	71.1	4	0 - 10						
VITROS 250,350,400 500,700,750,950	19	14.4	4.6	31.9	14	5 - 24						
All Chemistry Instruments	108	29.3	15.2	52.0	34	0 - 60						

**LDL Cholesterol - Direct (mg/dL)**

<b><u>Method</u></b>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	58	18.6	9.0	48.5	17	0 - 37	58	45.6	21.4	46.8	43	2 - 89
Alfa Wass. ACE HDL-C / LDL-C Alfa Wassermann ACE Alera/Axcel	10	17.4	1.9	11.2	18	12 - 23	10	44.8	2.6	5.8	44	31 - 59
Beckman AU Direct HDL / LDL Beckman AU systems	14	10.4	2.5	24.3	10	5 - 16	14	26.5	6.9	26.0	26	12 - 41
Roche LDL Direct All Chemistry Instruments	10	36.6	2.1	5.6	36	25 - 48	10	89.8	3.6	4.0	91	62 - 117
Siemens Automated LDL Siemens Dimension	14	18.4	3.8	20.6	18	10 - 26	14	46.4	5.5	11.9	45	32 - 61

  

<b><u>Method</u></b>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	59	39.0	18.0	46.0	37	3 - 75	59	26.3	12.5	47.3	25	1 - 52
Alfa Wass. ACE HDL-C / LDL-C Alfa Wassermann ACE Alera/Axcel	10	37.2	2.0	5.5	38	26 - 49	10	25.0	1.2	4.9	25	17 - 33
Beckman AU Direct HDL / LDL Beckman AU systems	14	23.0	6.1	26.3	22	10 - 36	14	15.4	3.9	25.6	15	7 - 24
Roche LDL Direct All Chemistry Instruments	10	76.5	3.3	4.3	76	53 - 100	10	52.0	2.2	4.2	51	36 - 68
Siemens Automated LDL Siemens Dimension	14	39.7	4.5	11.5	39	27 - 52	14	26.7	4.2	15.6	26	18 - 36

  

<b><u>Method</u></b>	<b>Specimen CH-15</b>					
	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	59	34.5	16.3	47.2	33	1 - 68
Alfa Wass. ACE HDL-C / LDL-C Alfa Wassermann ACE Alera/Axcel	10	32.2	1.9	6.0	32	22 - 42
Beckman AU Direct HDL / LDL Beckman AU systems	14	20.3	5.2	25.8	20	9 - 31
Roche LDL Direct All Chemistry Instruments	10	68.6	3.4	4.9	68	48 - 90
Siemens Automated LDL Siemens Dimension	14	34.9	4.0	11.4	35	24 - 46

**Cholesterol, HDL (mg/dL)**

<b><u>Reagent/Instrument</u></b>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	210	38.3	8.1	21.3	36	26 - 50	209	94.3	18.0	19.0	100	66 - 123
All Dex-Sulfate 50,000 MW Methods	44	38.0	2.5	6.5	38	26 - 50	43	101.3	3.0	3.0	100	70 - 132
All Direct Methods	121	38.8	10.0	25.6	34	27 - 51	122	91.8	20.9	22.8	83	64 - 120
Alere Cholestech LDX												
Alere Cholestech LDX - waived	36	37.6	2.5	6.6	38	26 - 49	34	100.0	0.1	0.0	100	70 - 130
All Chemistry Instruments	36	37.6	2.5	6.6	38	26 - 49	35	100.0	0.1	0.0	100	70 - 130
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	17	33.1	2.4	7.4	33	23 - 44	17	74.1	5.6	7.5	73	51 - 97
Beckman AU Direct HDL / LDL												
Beckman AU systems	22	32.5	2.5	7.6	33	22 - 43	22	80.3	4.4	5.5	81	56 - 105
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	30.1	1.8	5.8	30	21 - 40	11	72.0	4.5	6.3	72	50 - 94
Roche HDL Direct												
All Chemistry Instruments	13	35.7	7.5	21.0	33	24 - 47	13	94.1	16.2	17.2	88	65 - 123
Siemens Automated HDL												
Siemens Dimension	28	53.8	2.1	4.0	53	37 - 70	28	122.9	4.5	3.7	123	86 - 160
All Chemistry Instruments	30	53.7	2.2	4.2	53	37 - 70	30	122.5	4.6	3.7	123	85 - 160
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	18	39.3	1.4	3.5	39	27 - 52	17	106.9	4.0	3.8	108	74 - 139
All Chemistry Instruments	20	39.1	1.8	4.5	39	27 - 51	19	106.9	3.9	3.6	108	74 - 140

**Cholesterol, HDL (mg/dL)**

<u>Reagent/Instrument</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	171	81.5	16.6	20.3	75	57 - 107	171	55.4	11.9	21.4	50	38 - 73
All Dex-Sulfate 50,000 MW Methods	13	91.9	4.9	5.3	92	64 - 120	13	60.4	3.8	6.4	60	42 - 79
All Direct Methods	116	80.2	18.2	22.7	73	56 - 105	116	55.3	13.5	24.4	49	38 - 72
Alere Cholestech LDX												
Alere Cholestech LDX - waived	4	-	-	-	90	64 - 120	4	-	-	-	60	42 - 79
All Chemistry Instruments	5	-	-	-	92	64 - 120	5	-	-	-	63	42 - 80
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	17	66.0	4.4	6.7	65	46 - 86	17	46.4	3.2	6.9	46	32 - 61
Beckman AU Direct HDL / LDL												
Beckman AU systems	22	70.3	4.4	6.3	71	49 - 92	22	47.6	3.1	6.5	48	33 - 62
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	63.8	3.3	5.1	64	44 - 83	11	43.5	2.5	5.7	43	30 - 57
Roche HDL Direct												
All Chemistry Instruments	13	80.7	10.9	13.5	77	56 - 105	13	53.5	8.8	16.5	50	37 - 70
Siemens Automated HDL												
Siemens Dimension	28	108.1	4.2	3.9	108	75 - 141	28	76.4	2.9	3.8	76	53 - 100
All Chemistry Instruments	30	107.9	4.2	3.9	107	75 - 141	30	76.2	2.9	3.8	76	53 - 100
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	18	91.4	3.2	3.5	92	64 - 119	18	58.5	2.3	3.9	59	40 - 77
All Chemistry Instruments	20	91.2	3.2	3.5	92	63 - 119	20	58.3	2.4	4.1	59	40 - 76

**Cholesterol, HDL (mg/dL)****Specimen CH-15**

<b><u>Reagent/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	171	72.8	15.2	20.9	66	50 - 95
All Dex-Sulfate 50,000 MW Methods	13	82.3	6.4	7.7	81	57 - 108
All Direct Methods	116	71.9	16.8	23.4	64	50 - 94
Alere Cholestech LDX						
Alere Cholestech LDX - waived	4	-	-	-	83	57 - 108
All Chemistry Instruments	5	-	-	-	84	58 - 110
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	17	59.4	3.8	6.4	59	41 - 78
Beckman AU Direct HDL / LDL						
Beckman AU systems	22	62.3	3.8	6.1	63	43 - 82
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	57.5	3.4	5.8	58	40 - 75
Roche HDL Direct						
All Chemistry Instruments	13	71.7	9.8	13.7	68	50 - 94
Siemens Automated HDL						
Siemens Dimension	28	98.0	3.6	3.7	97	68 - 128
All Chemistry Instruments	30	97.7	3.8	3.9	97	68 - 128
VITROS dHDL Slide						
VITROS 250,350,400 500,700,750,950	18	79.9	2.7	3.4	80	55 - 104
All Chemistry Instruments	20	79.7	3.0	3.8	80	55 - 104

**Triglycerides (mg/dL)**

<u>Reagent/Instrument</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</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	210	117.7	6.8	5.8	118	88 - 148	209	225.9	14.1	6.2	225	169 - 283
All Alfa Wassermann Reagents	28	120.6	3.7	3.1	120	90 - 151	28	222.6	7.2	3.2	222	166 - 279
All Horiba Pentra Reagents	11	120.8	4.3	3.6	123	90 - 152	11	225.2	9.0	4.0	226	168 - 282
All Roche Reagents	18	119.9	3.7	3.1	119	89 - 150	18	223.1	9.0	4.0	223	167 - 279
Alere Cholestech LDX												
Alere Cholestech LDX - waived	35	120.0	5.2	4.3	120	90 - 150	35	226.3	13.7	6.1	226	169 - 283
All Chemistry Instruments	37	120.1	5.1	4.3	120	90 - 151	37	226.4	13.4	5.9	226	169 - 283
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	27	120.7	3.7	3.1	120	90 - 151	27	222.4	7.3	3.3	222	166 - 279
Beckman AU												
Beckman AU systems	27	116.6	5.4	4.6	116	87 - 146	27	224.3	12.0	5.3	223	168 - 281
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	116.5	7.5	6.5	114	87 - 146	10	224.3	22.4	10.0	224	168 - 281
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	120.8	4.3	3.6	123	90 - 152	11	225.2	9.0	4.0	226	168 - 282
Roche Integra												
Roche Integra	12	119.9	4.0	3.3	119	89 - 150	12	222.1	10.0	4.5	217	166 - 278
All Chemistry Instruments	13	119.8	3.8	3.2	119	89 - 150	13	222.2	9.5	4.3	217	166 - 278
Siemens Healthcare												
Siemens Dimension	31	107.4	4.5	4.2	107	80 - 135	31	214.2	9.1	4.3	210	160 - 268
All Chemistry Instruments	33	108.1	5.2	4.8	107	81 - 136	33	215.1	9.6	4.5	211	161 - 269
VITROS												
VITROS 250,350,400 500,700,750,950	24	121.9	4.9	4.0	122	91 - 153	24	245.6	10.1	4.1	245	184 - 308
All Chemistry Instruments	28	122.0	4.7	3.9	122	91 - 153	28	246.1	9.5	3.9	247	184 - 308



**Triglycerides (mg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<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	172	200.0	11.3	5.7	199	149 - 250	171	150.9	8.5	5.6	151	113 - 189
All Alfa Wassermann Reagents	28	199.0	6.3	3.2	198	149 - 249	28	152.5	5.6	3.7	153	114 - 191
All Horiba Pentra Reagents	11	201.3	7.3	3.6	203	150 - 252	11	153.5	5.7	3.7	154	115 - 192
All Roche Reagents	18	199.1	7.5	3.7	197	149 - 249	18	151.9	4.7	3.1	151	113 - 190
Alere Cholestech LDX												
Alere Cholestech LDX - waived	4	-	-	-	205	150 - 251	4	-	-	-	157	116 - 194
All Chemistry Instruments	6	-	-	-	202	150 - 251	6	-	-	-	152	116 - 194
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	27	198.9	6.4	3.2	198	149 - 249	27	152.6	5.7	3.7	153	114 - 191
Beckman AU												
Beckman AU systems	27	199.1	9.3	4.7	198	149 - 249	27	150.7	6.9	4.6	149	113 - 189
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	200.6	18.7	9.3	197	150 - 251	10	154.2	13.3	8.6	152	115 - 193
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	201.3	7.3	3.6	203	150 - 252	11	153.5	5.7	3.7	154	115 - 192
Roche Integra												
Roche Integra	12	198.3	8.1	4.1	195	148 - 248	12	151.6	5.4	3.6	151	113 - 190
All Chemistry Instruments	13	198.2	7.7	3.9	195	148 - 248	13	151.5	5.2	3.4	151	113 - 190
Siemens Healthcare												
Siemens Dimension	31	189.5	7.3	3.8	188	142 - 237	31	140.3	5.2	3.7	140	105 - 176
All Chemistry Instruments	33	190.2	7.5	4.0	188	142 - 238	33	141.1	5.9	4.2	140	105 - 177
VITROS												
VITROS 250,350,400 500,700,750,950	24	215.9	9.0	4.2	217	161 - 270	23	159.9	6.7	4.2	160	119 - 200
All Chemistry Instruments	28	216.2	8.5	3.9	218	162 - 271	27	160.0	6.4	4.0	160	120 - 201

**Triglycerides (mg/dL)****Specimen CH-15**

<b><u>Reagent/Instrument</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	172	183.8	10.0	5.5	183	137 - 230
All Alfa Wassermann Reagents	28	183.7	5.8	3.2	183	137 - 230
All Horiba Pentra Reagents	11	184.9	6.8	3.7	185	138 - 232
All Roche Reagents	18	183.4	6.4	3.5	182	137 - 230
Alere Cholestech LDX						
Alere Cholestech LDX - waived	4	-	-	-	190	140 - 234
All Chemistry Instruments	6	-	-	-	189	140 - 234
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	27	183.6	5.9	3.2	183	137 - 230
Beckman AU						
Beckman AU systems	27	182.6	8.3	4.5	182	136 - 229
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	185.7	15.4	8.3	181	139 - 233
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	184.9	6.8	3.7	185	138 - 232
Roche Integra						
Roche Integra	12	182.8	7.2	3.9	181	137 - 229
All Chemistry Instruments	13	182.7	6.9	3.8	181	137 - 229
Siemens Healthcare						
Siemens Dimension	31	173.7	6.6	3.8	172	130 - 218
All Chemistry Instruments	33	174.5	7.0	4.0	172	130 - 219
VITROS						
VITROS 250,350,400 500,700,750,950	24	197.1	8.3	4.2	198	147 - 247
All Chemistry Instruments	28	197.4	7.8	3.9	199	148 - 247

**Acetaminophen (µg/mL)**

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-11</b>				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-12</b>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	5	29.20	0.42	1.5	29.2	21.9 - 36.5	5	97.60	1.41	1.4	97.6	73.2 - 122.0	
Siemens Dimension	5	29.20	0.42	1.5	29.2	21.9 - 36.5	5	97.60	1.41	1.4	97.6	73.2 - 122.0	
			<b>Specimen CH-13</b>					<b>Specimen CH-14</b>					
All Method	5	80.85	2.05	2.5	80.9	60.6 - 101.1	5	49.80	2.55	5.1	49.8	37.3 - 62.3	
Siemens Dimension	5	80.85	2.05	2.5	80.9	60.6 - 101.1	5	49.80	2.55	5.1	49.8	37.3 - 62.3	
			<b>Specimen CH-15</b>										
All Method	5	71.80	1.27	1.8	71.8	53.8 - 89.8							
Siemens Dimension	5	71.80	1.27	1.8	71.8	53.8 - 89.8							

**Carbamazepine (µg/mL)**

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-11</b>				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-12</b>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	5	4.00	0.01	0.0	4.0	3.0 - 5.0	5	10.73	0.25	2.3	10.7	8.0 - 13.5	
			<b>Specimen CH-13</b>					<b>Specimen CH-14</b>					
All Method	5	8.93	0.06	0.6	8.9	6.6 - 11.2	5	5.90	0.17	2.9	6.0	4.4 - 7.4	
			<b>Specimen CH-15</b>										
All Method	5	7.97	0.15	1.9	8.0	5.9 - 10.0							

**Digoxin (ng/mL)**

<u>Method</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	0.83	0.13	15.1	0.8	0.6 - 1.1	10	1.91	0.23	12.2	2.0	1.5 - 2.3
<u>Method</u>	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
	<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	1.64	0.20	12.1	1.7	1.3 - 2.0	11	1.13	0.11	9.9	1.1	0.9 - 1.4
<u>Method</u>	<b>Specimen CH-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	1.47	0.26	17.9	1.5	1.1 - 1.8						

**Gentamicin (µg/mL)**

<u>Method</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	1.95	0.07	3.6	2.0	1.4 - 2.5	5	7.90	0.42	5.4	7.9	5.9 - 9.9
Siemens Dimension	5	1.95	0.07	3.6	2.0	1.4 - 2.5	5	7.90	0.42	5.4	7.9	5.9 - 9.9
	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
All Method	5	6.60	0.14	2.1	6.6	4.9 - 8.3	5	3.85	0.07	1.8	3.9	2.8 - 4.9
Siemens Dimension	5	6.60	0.14	2.1	6.6	4.9 - 8.3	5	3.85	0.07	1.8	3.9	2.8 - 4.9
	<b>Specimen CH-15</b>											
All Method	5	5.75	0.07	1.2	5.8	4.3 - 7.2						
Siemens Dimension	5	5.75	0.07	1.2	5.8	4.3 - 7.2						

**Lithium (mmol/L)**

<u>Method</u>	<b>Specimen CH-11</b>						<b>Specimen CH-12</b>					
	<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	0.50	0.01	0.0	0.5	0.2 - 0.8	5	1.90	0.14	7.4	1.9	1.5 - 2.3
Siemens Dimension	5	0.50	0.01	0.0	0.5	0.2 - 0.8	5	1.90	0.14	7.4	1.9	1.5 - 2.3
	<b>Specimen CH-13</b>						<b>Specimen CH-14</b>					
All Method	5	1.60	0.01	0.0	1.6	1.2 - 2.0	5	1.00	0.01	0.0	1.0	0.7 - 1.3
Siemens Dimension	5	1.60	0.01	0.0	1.6	1.2 - 2.0	5	1.00	0.01	0.0	1.0	0.7 - 1.3
	<b>Specimen CH-15</b>											
All Method	5	1.40	0.01	0.0	1.4	1.1 - 1.7						
Siemens Dimension	5	1.40	0.01	0.0	1.4	1.1 - 1.7						

**Phenobarbital (µg/mL)**

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-11</b>				<b>Specimen CH-12</b>					
			<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	9.25	0.35	3.8	9.3	7.4 - 11.1	5	34.70	0.42	1.2	34.7	27.7 - 41.7
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-13</b>				<b>Specimen CH-14</b>					
			<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	28.95	0.64	2.2	29.0	23.1 - 34.8	5	17.05	0.49	2.9	17.1	13.6 - 20.5
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-15</b>									
			<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	25.05	0.64	2.5	25.1	20.0 - 30.1						

**Phenytoin (µg/mL)**

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-11</b>				<b>Specimen CH-12</b>					
			<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	8.84	0.32	3.6	9.0	6.6 - 11.1	10	25.24	1.45	5.7	25.8	18.9 - 31.6
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-13</b>				<b>Specimen CH-14</b>					
			<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	21.66	0.97	4.5	21.6	16.2 - 27.1	10	13.74	0.56	4.1	13.5	10.3 - 17.2
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-15</b>									
			<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	18.26	0.97	5.3	18.2	13.6 - 22.9						

**Salicylate (mg/dL)**

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<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	-	-	-	8.6	Not graded	1	-	-	-	22.9	Not graded
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<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	-	-	-	18.9	Not graded	1	-	-	-	12.9	Not graded
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	1	-	-	-	17.5	Not graded						

**Theophylline (µg/mL)**

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<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	12.90	0.28	2.2	12.9	9.6 - 16.2	5	31.10	0.14	0.5	31.1	23.3 - 38.9
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<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	26.70	1.27	4.8	26.7	20.0 - 33.4	5	18.15	0.21	1.2	18.2	13.6 - 22.7
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	24.35	1.20	4.9	24.4	18.2 - 30.5						

**Valproic Acid (µg/mL)**

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-11</b>				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-12</b>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	5	40.90	2.27	5.6	40.4	30.6 - 51.2	5	94.10	10.40	11.1	92.2	70.5 - 117.7	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-13</b>				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-14</b>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	5	80.65	5.16	6.4	81.1	60.4 - 100.9	5	55.55	5.40	9.7	55.4	41.6 - 69.5	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-15</b>				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
			<u>SD</u>	<u>CV</u>	<u>Median</u>								
All Method	5	72.38	3.34	4.6	73.0	54.2 - 90.5							

**Vancomycin (µg/mL)**

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-11</b>				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-12</b>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	5	7.43	0.40	5.4	7.5	5.5 - 9.3	5	39.13	2.76	7.1	40.2	29.3 - 49.0	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-13</b>				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-14</b>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	5	31.43	1.32	4.2	31.7	23.5 - 39.3	5	17.83	0.72	4.1	18.2	13.3 - 22.3	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<b>Specimen CH-15</b>				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
			<u>SD</u>	<u>CV</u>	<u>Median</u>								
All Method	5	26.40	1.23	4.7	26.9	19.8 - 33.0							



**Apolipoprotein A1 (mg/dL)**

<u>Method</u>	Specimen LP-5						Specimen LP-6					
	<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	-	-	-	58	Not graded	1	-	-	-	72	Not graded

**Apolipoprotein B (mg/dL)**

<u>Method</u>	Specimen LP-5						Specimen LP-6					
	<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	49.4	6.7	13.5	51	34 - 65	5	66.0	6.6	9.9	67	46 - 86

**Neonatal Bilirubin, Total (mg/dL)**

<u>Method</u>	Specimen NB-11						Specimen NB-12					
	<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	14.06	0.60	4.3	14.0	11.2 - 16.9	28	4.64	0.30	6.4	4.6	3.7 - 5.6
No Reagent Required												
Bilirubinometer / Unistat	18	14.09	0.61	4.3	14.1	11.2 - 17.0	18	4.46	0.36	8.1	4.5	3.5 - 5.4
All Chemistry Instruments	23	14.09	0.61	4.3	14.1	11.2 - 17.0	22	4.60	0.28	6.0	4.6	3.6 - 5.6
<u>Method</u>	Specimen NB-13						Specimen NB-14					
	<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	0.04	0.07	164.9	0.0	0.0 - 0.5	29	7.54	0.54	7.1	7.5	6.0 - 9.1
No Reagent Required												
Bilirubinometer / Unistat	18	0.00	0.01	0.0	0.0	0.0 - 0.4	18	7.37	0.46	6.2	7.4	5.8 - 8.9
All Chemistry Instruments	23	0.03	0.06	237.4	0.0	0.0 - 0.5	23	7.51	0.54	7.2	7.5	6.0 - 9.1
<u>Method</u>	Specimen NB-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	29	11.93	0.63	5.3	11.8	9.5 - 14.4						
No Reagent Required												
Bilirubinometer / Unistat	18	11.83	0.56	4.8	11.8	9.4 - 14.2						
All Chemistry Instruments	23	11.93	0.59	4.9	11.9	9.5 - 14.4						

**Bilirubin, Direct (mg/dL)**

<u>Method</u>	<b>Specimen NB-11</b>						<b>Specimen NB-12</b>					
	<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	3.28	0.44	13.4	3.2	2.4 - 4.2	10	0.92	0.14	15.2	0.9	0.6 - 1.2
<u>Method</u>	<b>Specimen NB-13</b>						<b>Specimen NB-14</b>					
	<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	0.05	0.05	110.5	0.0	0.0 - 0.2	10	2.98	0.50	16.7	3.0	1.9 - 4.0
<u>Method</u>	<b>Specimen NB-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	4.01	0.55	13.7	3.9	2.9 - 5.2						

**Blood Gases – pH**

<u>Method</u>	<b>Specimen BG-11</b>						<b>Specimen BG-12</b>					
	<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	7.327	0.014	0.2	7.33	7.28 - 7.37	11	6.905	0.010	0.2	6.91	6.86 - 6.95
i-STAT	11	7.327	0.014	0.2	7.33	7.28 - 7.37	11	6.905	0.010	0.2	6.91	6.86 - 6.95
<u>Method</u>	<b>Specimen BG-13</b>						<b>Specimen BG-14</b>					
	<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	7.310	0.007	0.1	7.31	7.27 - 7.35	11	7.315	0.012	0.2	7.31	7.27 - 7.36
i-STAT	11	7.310	0.007	0.1	7.31	7.27 - 7.35	11	7.315	0.012	0.2	7.31	7.27 - 7.36
<u>Method</u>	<b>Specimen BG-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	6.902	0.008	0.1	6.90	6.86 - 6.95						
i-STAT	11	6.902	0.008	0.1	6.90	6.86 - 6.95						

### Blood Gases - pCO<sub>2</sub> (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-11</u>				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-12</u>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	11	49.67	2.07	4.2	50.3	44.6 - 54.7	11	70.35	4.19	6.0	70.7	64.7 - 76.0	
i-STAT	11	49.67	2.07	4.2	50.3	44.6 - 54.7	11	70.35	4.19	6.0	70.7	64.7 - 76.0	
			<u>Specimen BG-13</u>					<u>Specimen BG-14</u>					
All Method	10	45.76	2.39	5.2	46.2	40.7 - 50.8	11	41.23	2.64	6.4	41.8	36.2 - 46.3	
i-STAT	10	45.76	2.39	5.2	46.2	40.7 - 50.8	11	41.23	2.64	6.4	41.8	36.2 - 46.3	
			<u>Specimen BG-15</u>										
All Method	11	70.80	2.11	3.0	70.7	65.1 - 76.5							
i-STAT	11	70.80	2.11	3.0	70.7	65.1 - 76.5							

### Blood Gases - pO<sub>2</sub> (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-11</u>				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-12</u>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	11	196.83	12.06	6.1	194.5	160.6 - 233.1	11	58.83	10.98	18.7	55.5	25.8 - 91.8	
i-STAT	11	196.83	12.06	6.1	194.5	160.6 - 233.1	11	58.83	10.98	18.7	55.5	25.8 - 91.8	
			<u>Specimen BG-13</u>					<u>Specimen BG-14</u>					
All Method	10	165.00	9.82	6.0	163.0	135.5 - 194.5	11	80.00	14.57	18.2	77.5	36.2 - 123.8	
i-STAT	10	165.00	9.82	6.0	163.0	135.5 - 194.5	11	80.00	14.57	18.2	77.5	36.2 - 123.8	
			<u>Specimen BG-15</u>										
All Method	11	55.17	5.74	10.4	55.5	37.9 - 72.4							
i-STAT	11	55.17	5.74	10.4	55.5	37.9 - 72.4							

### Blood Gases – Ionized Calcium (mmol/L)

One participant reported results for Blood Gases-Ionized Calcium. The vendor mean assay values for specimens BG-11 through BG-15 are: 1.3 mmol/L, >2.5 mmol/L, 0.96 mmol/L, 0.6 mmol/L, and >2.5 mmol/L, respectively.

### Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-11 through BG-15 are: 90 mmol/L, 111 mmol/L, 97 mmol/L, 80 mmol/L, and 111 mmol/L, respectively.

### Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-11 through BG-15 are: 4.4 mmol/L, 3.4 mmol/L, 4.6 mmol/L, 2.3 mmol/L, and 3.4 mmol/L, respectively.

### Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-11 through BG-15 are: 138 mmol/L, 132 mmol/L, 155 mmol/L, 126 mmol/L, and 132 mmol/L, respectively.

### Blood Gases – Lactate (mmol/L)

<u>Method</u>	<u>Specimen BG-11</u>						<u>Specimen BG-12</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	6	0.77	0.12	15.1	0.7	0.4 - 1.2	6	5.07	0.25	5.0	5.1	4.3 - 5.9
i-STAT	6	0.77	0.12	15.1	0.7	0.4 - 1.2	6	5.07	0.25	5.0	5.1	4.3 - 5.9
<u>Method</u>	<u>Specimen BG-13</u>						<u>Specimen BG-14</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	6	2.27	0.21	9.2	2.2	1.6 - 2.9	5	6.55	0.07	1.1	6.6	6.3 - 6.8
i-STAT	6	2.27	0.21	9.2	2.2	1.6 - 2.9	5	6.55	0.07	1.1	6.6	6.3 - 6.8
<u>Method</u>	<u>Specimen BG-15</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	6	5.07	0.25	5.0	5.1	4.3 - 5.9						
i-STAT	6	5.07	0.25	5.0	5.1	4.3 - 5.9						

### Afinion Glycohemoglobin (percent)

<u>Method</u>	<u>Specimen AFN-5</u>						<u>Specimen AFN-6</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>
Axis-Shield Afinion AS100	86	8.16	0.17	2.1	8.2	7.6 - 8.7	85	6.20	0.12	2.0	6.2	5.8 - 6.6

## Glycohemoglobin (percent)

<u>Method</u>	Specimen GH-5						Specimen GH-6					
	<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	154	5.72	0.20	3.5	5.7	5.3 - 6.1	156	11.94	0.81	6.8	11.8	11.2 - 12.7
All Hemoglobin A1c Methods	154	5.72	0.20	3.5	5.7	5.3 - 6.1	156	11.94	0.81	6.8	11.8	11.2 - 12.7
All TOSOH Methods	22	5.81	0.08	1.4	5.8	5.4 - 6.2	23	11.57	0.17	1.5	11.6	10.8 - 12.3
Beckman AU A1c	12	5.53	0.11	2.1	5.5	5.1 - 5.9	12	11.50	0.66	5.7	11.3	10.8 - 12.2
Siemens DCA Vantage	66	5.76	0.11	2.0	5.8	5.4 - 6.2	68	12.54	0.67	5.3	12.5	11.7 - 13.3
Siemens Dimension HB1C	23	5.69	0.16	2.7	5.7	5.3 - 6.1	23	10.93	0.34	3.1	10.9	10.2 - 11.6
TOSOH G8	22	5.81	0.08	1.4	5.8	5.4 - 6.2	23	11.57	0.17	1.5	11.6	10.8 - 12.3

## Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-11						Specimen WBG-12					
	<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	276	100.9	17.6	17.5	100	80 - 122	280	61.9	20.4	33.1	56	49 - 75
All Abbott Methods	19	89.1	5.5	6.2	89	71 - 107	19	48.2	5.2	10.9	48	36 - 61
All Arkray Methods	16	105.2	5.0	4.8	106	84 - 127	16	69.1	7.0	10.2	73	55 - 83
All Bayer Methods	35	77.1	6.1	7.9	77	61 - 93	35	42.9	5.0	11.7	42	30 - 55
All Hemocue Methods	67	125.3	5.8	4.6	126	100 - 151	67	85.3	7.5	8.8	86	68 - 103
All Lifescan Methods	20	98.9	6.6	6.7	99	79 - 119	20	50.1	3.6	7.1	50	38 - 63
All Roche Methods	29	101.6	1.7	1.6	102	81 - 122	30	61.8	1.6	2.6	62	49 - 75
Abbott FreeStyle Lite/Freedom Lite	10	90.8	3.7	4.1	91	72 - 109	10	51.1	5.6	10.9	53	39 - 64
Abbott Precision XceedPro	10	89.9	4.6	5.1	89	71 - 108	10	47.3	3.7	7.9	46	35 - 60
Arkray Platinum	15	105.9	4.4	4.2	106	84 - 128	15	69.8	6.6	9.5	73	55 - 84
Bayer Contour	35	77.1	6.1	7.9	77	61 - 93	35	42.9	5.0	11.7	42	30 - 55
HemoCue 201	65	125.0	6.4	5.1	126	100 - 151	64	85.4	7.7	9.0	86	68 - 103
Home Diagnostics True Balance / TrueTrack	13	240.6	16.6	6.9	241	192 - 289	13	148.5	9.6	6.5	148	118 - 179
Lifescan One Touch Ultra/2/Mini	16	101.2	4.7	4.7	100	80 - 122	16	48.9	2.8	5.8	48	36 - 61
Medline EvenCare G2 / G3	15	108.0	5.2	4.8	107	86 - 130	15	58.8	4.7	7.9	58	46 - 71
NOVA Biomedical StatStrip	21	87.4	4.8	5.5	87	69 - 105	21	50.9	3.4	6.6	50	38 - 63
PSS Quintet / AC	27	91.9	4.1	4.4	93	73 - 111	28	43.5	2.8	6.5	43	31 - 56
Roche Accu-Chek Aviva	10	101.4	1.5	1.5	102	81 - 122	10	61.8	1.3	2.1	62	49 - 75
Roche Accu-Chek Inform II	11	101.3	1.6	1.5	101	81 - 122	11	61.5	1.0	1.7	61	49 - 74
Roche Accu-Chek Performa	14	102.3	2.4	2.4	102	81 - 123	14	62.1	2.0	3.2	62	49 - 75
True Metrix Pro	12	84.5	10.7	12.7	84	67 - 102	12	46.8	3.0	6.5	47	34 - 59

  

<u>Method</u>	Specimen WBG-13						Specimen WBG-14					
	<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	423.2	34.8	8.2	420	338 - 508	14	115.0	8.2	7.2	116	92 - 138
All Abbott Methods	1	-	-	-	366	292 - 440	1	-	-	-	93	74 - 112
All Hemocue Methods	1	-	-	-	414	331 - 497	1	-	-	-	128	102 - 154
All Lifescan Methods	10	451.7	19.1	4.2	447	361 - 543	10	115.7	1.3	1.1	116	92 - 139
All Roche Methods	3	-	-	-	411	325 - 489	3	-	-	-	110	88 - 133
Abbott Precision XceedPro	1	-	-	-	366	338 - 508	1	-	-	-	93	92 - 138
HemoCue 201	1	-	-	-	414	338 - 508	1	-	-	-	128	92 - 138
Lifescan One Touch Ultra/2/Mini	10	451.7	19.1	4.2	447	361 - 543	10	115.7	1.3	1.1	116	92 - 139
Medline EvenCare G2 / G3	1	-	-	-	376	338 - 508	1	-	-	-	121	92 - 138
Roche Accu-Chek Inform II	2	-	-	-	411	338 - 508	2	-	-	-	111	92 - 138
Roche Accu-Chek Performa	1	-	-	-	400	338 - 508	1	-	-	-	110	92 - 138

**Whole Blood Glucose (mg/dL) cont'd**

**Specimen WBG-15**

<b><u>Method</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	14	193.1	12.3	6.4	198	154 - 232
All Abbott Methods	1	-	-	-	173	138 - 208
All Hemocue Methods	1	-	-	-	199	159 - 239
All Lifescan Methods	10	201.4	4.2	2.1	202	161 - 242
All Roche Methods	3	-	-	-	179	142 - 214
Abbott Precision XceedPro	1	-	-	-	173	154 - 232
HemoCue 201	1	-	-	-	199	154 - 232
Lifescan One Touch Ultra/2/Mini	10	201.4	4.2	2.1	202	161 - 242
Medline EvenCare G2 / G3	1	-	-	-	181	154 - 232
Roche Accu-Chek Inform II	2	-	-	-	179	154 - 232
Roche Accu-Chek Performa	1	-	-	-	177	154 - 232

### C-Peptide (ng/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<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	19.930	1.449	7.3	19.70	17.03 - 22.83	5	3.920	0.601	15.3	3.93	2.71 - 5.13

### Insulin (μU/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<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	89.78	30.14	33.6	105.9	29.4 - 150.1	15	31.63	9.91	31.3	35.0	11.8 - 51.5
Beckman ACCESS / 2 / Dxl	10	109.12	3.45	3.2	109.4	102.2 - 116.1	10	39.76	1.59	4.0	39.1	36.5 - 43.0

### Parathyroid Hormone, Intact (pg/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<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	32	133.3	15.2	11.4	132	102 - 164	34	14.7	7.7	52.3	14	0 - 31
All TOSOH Instruments	11	133.2	8.8	6.6	135	115 - 151	10	18.9	6.9	36.3	17	5 - 33
Beckman ACCESS / 2 / Dxl	12	129.8	10.4	8.0	132	108 - 151	13	13.5	5.9	43.9	11	1 - 26
TOSOH ST AIA PACK	10	130.0	6.3	4.9	131	117 - 143	9	-	-	-	18	5 - 33

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

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<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	111	95.58	18.89	19.8	97.9	57.7 - 133.4	110	30.53	8.96	29.4	28.6	12.6 - 48.5
All Roche Instruments	11	70.27	17.62	25.1	60.0	35.0 - 105.6	11	21.05	3.79	18.0	19.7	13.4 - 28.7
All TOSOH Instruments	20	96.23	3.88	4.0	95.0	88.4 - 104.0	20	41.51	2.59	6.2	41.5	36.3 - 46.7
Abbott Architect	8	98.26	7.70	7.8	97.7	82.8 - 113.7	8	26.51	2.10	7.9	26.7	22.3 - 30.8
Beckman ACCESS / 2 / Dxl	42	103.48	11.25	10.9	101.0	80.9 - 126.0	42	28.50	3.35	11.7	28.8	21.8 - 35.2
Qualigen FastPack	7	63.36	8.60	13.6	65.8	46.1 - 80.6	7	32.67	10.25	31.4	28.7	12.1 - 53.2
Roche cobas e 411	8	69.13	16.90	24.4	60.0	35.3 - 103.0	8	20.35	3.34	16.4	19.4	13.6 - 27.1
TOSOH AIA PACK	8	93.78	3.00	3.2	93.6	87.7 - 99.8	8	40.18	2.81	7.0	40.5	34.5 - 45.8
TOSOH ST AIA PACK	12	97.86	3.61	3.7	97.9	90.6 - 105.1	12	42.40	2.10	4.9	42.1	38.2 - 46.6

**Bioavailable Testosterone (ng/dL)**

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<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	-	-	-	113.0	Not graded	1	-	-	-	187.4	Not graded

**Free Testosterone (pg/mL)**

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<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	17.17	19.01	110.7	6.9	0.0 - 55.2	5	29.13	29.42	101.0	16.2	0.0 - 88.0

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

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<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	39.670	4.566	11.5	38.70	25.97 - 53.37	13	94.023	10.900	11.6	90.60	61.32 - 126.73
Beckman ACCESS / 2 / Dxl	7	40.886	5.084	12.4	40.60	25.63 - 56.14	7	96.000	10.541	11.0	96.20	64.37 - 127.63

**Testosterone (ng/dL)**

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<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	292.1	79.0	27.1	249	204 - 380	19	819.9	237.7	29.0	686	573 - 1066
All Siemens Immulite Instruments	5	413.3	42.1	10.2	433	289 - 538	5	1184.7	104.9	8.9	1143	829 - 1541
Beckman ACCESS / 2 / Dxl	7	245.9	23.6	9.6	242	172 - 320	7	673.0	34.9	5.2	664	471 - 875
Siemens Immulite/1000	5	413.3	42.1	10.2	433	289 - 538	5	1184.7	104.9	8.9	1143	829 - 1541



**BNP (pg/mL)**

<u>Method</u>	<b>Specimen CK-11</b>						<b>Specimen CK-12</b>					
	<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	2118.15	629.85	29.7	1020.0	858.4 - 3377.9	36	60.52	18.34	30.3	53.5	23.8 - 97.3
Alere Triage	21	933.67	150.77	16.1	940.0	632.1 - 1235.3	21	54.78	8.50	15.5	53.5	37.7 - 71.8
i-STAT - moderate	10	2509.75	217.78	8.7	2525.5	1882.3 - 3137.2	10	49.00	5.35	10.9	49.5	36.7 - 61.3
<u>Method</u>	<b>Specimen CK-13</b>						<b>Specimen CK-14</b>					
	<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	3917.62	826.77	21.1	2100.0	2264.0 - 5571.2	36	1162.36	233.01	20.0	582.0	696.3 - 1628.4
Alere Triage	21	1696.25	355.12	20.9	1665.0	986.0 - 2406.5	21	472.13	88.65	18.8	447.5	294.8 - 649.5
i-STAT - moderate	10	4277.25	221.78	5.2	4249.5	3207.9 - 5346.6	10	1261.25	84.85	6.7	1227.5	945.9 - 1576.6
<u>Method</u>	<b>Specimen CK-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	36	4843.58	349.77	7.2	3310.0	3632.6 - 6054.5						
Alere Triage	21	2753.75	509.40	18.5	2640.0	1734.9 - 3772.6						
i-STAT - moderate	10	5000.00	0.01	0.0	5000.0	3750.0 - 6250.0						

**CK-MB (ng/mL)**

<u>Method</u>	<b>Specimen CK-11</b>						<b>Specimen CK-12</b>					
	<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	28.07	3.72	13.3	22.1	16.9 - 39.3	37	4.96	0.63	12.8	4.5	3.0 - 6.9
Alere Triage	15	10.37	2.34	22.5	10.5	3.3 - 17.4	15	1.81	0.48	26.6	1.6	0.3 - 3.3
Dade Stratus CS	11	27.57	1.69	6.1	28.0	22.5 - 32.7	11	4.78	0.19	4.1	4.9	4.2 - 5.4
Siemens Dimension	10	28.54	1.69	5.9	27.8	23.4 - 33.7	10	4.66	0.23	4.9	4.7	3.9 - 5.4
<u>Method</u>	<b>Specimen CK-13</b>						<b>Specimen CK-14</b>					
	<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	50.57	7.38	14.6	38.3	28.4 - 72.8	37	16.14	1.96	12.1	13.4	10.2 - 22.1
Alere Triage	15	18.37	3.85	21.0	18.2	6.8 - 30.0	15	5.74	1.07	18.6	5.5	2.5 - 9.0
Dade Stratus CS	11	48.50	1.04	2.1	48.8	45.3 - 51.7	11	16.17	0.42	2.6	16.2	14.9 - 17.5
Siemens Dimension	10	55.48	2.63	4.7	54.4	47.6 - 63.4	10	15.66	1.38	8.8	15.1	11.5 - 19.9
<u>Method</u>	<b>Specimen CK-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	37	97.90	15.94	16.3	73.0	50.0 - 145.8						
Alere Triage	15	34.01	5.94	17.5	33.1	16.1 - 51.9						
Dade Stratus CS	11	92.12	2.85	3.1	93.0	83.5 - 100.7						
Siemens Dimension	10	112.72	3.15	2.8	113.0	103.2 - 122.2						

**D-Dimer (ng/mL)**

<u>Method</u>	<b>Specimen CK-11</b>						<b>Specimen CK-12</b>					
	<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	38	1052.1	259.2	24.6	877	533 - 1571	38	533.4	90.5	17.0	592	352 - 715
Alere Triage	21	859.6	67.4	7.8	864	601 - 1118	20	587.2	66.5	11.3	599	411 - 764
Dade Stratus CS	10	1189.2	60.6	5.1	1178	832 - 1546	10	580.3	26.2	4.5	584	406 - 755
<u>Method</u>	<b>Specimen CK-13</b>						<b>Specimen CK-14</b>					
	<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	31	1653.7	381.4	23.1	1295	890 - 2417	31	811.1	106.8	13.2	742	567 - 1055
Alere Triage	15	1240.0	124.9	10.1	1260	868 - 1612	15	715.0	60.7	8.5	721	500 - 930
Dade Stratus CS	10	1794.3	91.8	5.1	1812	1256 - 2333	10	850.8	21.2	2.5	849	595 - 1107
<u>Method</u>	<b>Specimen CK-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	31	2479.0	553.8	22.3	2040	1371 - 3587						
Alere Triage	15	1895.3	231.0	12.2	1840	1326 - 2464						
Dade Stratus CS	10	2687.7	47.6	1.8	2693	1881 - 3494						

**D-Dimer (µgFEU/mL)**

<u>Method</u>	<b>Specimen CK-11</b>						<b>Specimen CK-12</b>					
	<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	-	-	-	-	-	Not graded	-	-	-	-	-	Not graded
<u>Method</u>	<b>Specimen CK-13</b>						<b>Specimen CK-14</b>					
	<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	-	-	-	-	-	Not graded	-	-	-	-	-	Not graded
<u>Method</u>	<b>Specimen CK-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	-	-	-	-	-	Not graded						

## Myoglobin (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<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	118.88	22.80	19.2	134.0	73.2 - 164.5	16	29.00	3.25	11.2	31.0	20.3 - 37.7
Alere Triage	11	143.82	32.20	22.4	136.0	79.4 - 208.3	11	33.65	7.33	21.8	31.8	18.9 - 48.4
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<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	214.90	41.65	19.4	209.0	131.6 - 298.2	16	73.73	11.45	15.5	79.2	50.8 - 96.7
Alere Triage	11	210.27	30.04	14.3	209.0	147.1 - 273.4	11	84.59	14.07	16.6	81.3	56.4 - 112.8
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	16	421.65	104.07	24.7	340.0	213.5 - 629.8						
Alere Triage	11	347.64	34.07	9.8	337.0	243.3 - 452.0						

## NT-proBNP (pg/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<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	626.3	180.9	28.9	614	264 - 989	6	32.3	18.7	57.9	26	0 - 70
Siemens Dimension NT-proBNP	5	560.3	151.8	27.1	494	256 - 864	5	23.3	6.8	29.2	21	9 - 37
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<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	1249.7	273.1	21.9	1143	703 - 1796	6	255.3	85.6	33.5	211	84 - 427
Siemens Dimension NT-proBNP	5	1249.7	273.1	21.9	1143	703 - 1796	5	255.3	85.6	33.5	211	84 - 427
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	2632.3	494.2	18.8	2352	1643 - 3621						
Siemens Dimension NT-proBNP	5	2632.3	494.2	18.8	2352	1643 - 3621						

Troponin I (ng/mL)

<b><u>Method</u></b>	<b>Specimen CK-11</b>						<b>Specimen CK-12</b>					
	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	48	5.385	5.502	102.2	2.77	0.00 - 16.39	48	0.111	0.114	102.8	0.05	0.00 - 0.34
All HS Troponin I Methods	13	16.182	9.243	57.1	16.60	0.00 - 34.67	13	0.372	0.288	77.6	0.31	0.00 - 0.95
All Non-HS Troponin I Methods	15	2.564	0.340	13.3	2.54	1.79 - 3.34	15	0.060	0.019	31.5	0.06	0.02 - 0.10
Alere Triage	15	2.591	0.783	30.2	2.59	1.02 - 4.16	15	0.050	0.001	0.0	0.05	0.03 - 0.07
Dade Stratus CS	11	2.893	0.113	3.9	2.93	2.02 - 3.77	11	0.072	0.019	27.1	0.07	0.03 - 0.12
Siemens Dimension	10	2.254	0.153	6.8	2.23	1.57 - 2.94	10	0.044	0.005	12.4	0.04	0.03 - 0.06
	<b>Specimen CK-13</b>						<b>Specimen CK-14</b>					
All Method	48	12.272	11.514	93.8	6.17	0.00 - 35.31	48	2.609	2.923	112.0	1.24	0.00 - 8.46
All HS Troponin I Methods	13	34.129	13.964	40.9	33.10	6.20 - 62.06	13	7.861	4.703	59.8	7.60	0.00 - 17.27
All Non-HS Troponin I Methods	15	5.289	0.729	13.8	5.61	3.70 - 6.88	15	1.266	0.174	13.7	1.31	0.88 - 1.65
Alere Triage	15	6.623	0.991	15.0	6.98	4.63 - 8.62	15	0.768	0.145	18.9	0.74	0.47 - 1.06
Dade Stratus CS	11	5.725	0.138	2.4	5.68	4.00 - 7.45	11	1.425	0.024	1.7	1.43	0.99 - 1.86
Siemens Dimension	10	4.556	0.289	6.3	4.53	3.18 - 5.93	10	2.672	3.549	132.8	1.08	0.00 - 9.78
	<b>Specimen CK-15</b>											
All Method	48	23.734	20.811	87.7	14.80	0.00 - 65.36						
All HS Troponin I Methods	13	63.532	26.040	41.0	50.00	11.45 - 115.62						
All Non-HS Troponin I Methods	15	10.468	3.416	32.6	11.07	3.63 - 17.30						
Alere Triage	15	14.287	2.080	14.6	14.80	10.00 - 18.58						
Dade Stratus CS	11	11.165	0.221	2.0	11.16	7.81 - 14.52						
Siemens Dimension	10	7.444	3.582	48.1	8.70	0.28 - 14.61						

**Troponin T (ng/mL)**

<u>Method</u>	<b>Specimen CK-11</b>						<b>Specimen CK-12</b>					
	<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	0.3240	0.0127	3.9	0.324	0.226 - 0.422	5	0.0890	0.0014	1.6	0.089	0.062 - 0.116
<u>Method</u>	<b>Specimen CK-13</b>						<b>Specimen CK-14</b>					
	<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	0.5495	0.0488	8.9	0.550	0.384 - 0.715	5	0.1945	0.0001	0.0	0.195	0.136 - 0.253
<u>Method</u>	<b>Specimen CK-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	0.9820	0.0537	5.5	0.982	0.687 - 1.277						

**PSA (ng/mL)**

<u>Method</u>	Specimen PS-5						Specimen PS-6					
	<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	115	13.896	2.340	16.8	14.00	9.72 - 18.07	115	9.471	1.533	16.2	9.40	6.62 - 12.32
All TOSOH Instruments	32	11.925	0.455	3.8	11.91	8.34 - 15.51	31	8.075	0.355	4.4	8.13	5.65 - 10.50
Abbott Architect	10	12.643	0.572	4.5	12.68	8.85 - 16.44	10	8.396	0.522	6.2	8.46	5.87 - 10.92
Beckman ACCESS / 2 / Dxl	13	16.208	0.815	5.0	16.27	11.34 - 21.08	13	10.990	0.383	3.5	11.02	7.69 - 14.29
Beckman ACCESS Hybritech PSA	21	15.900	0.861	5.4	15.90	11.12 - 20.67	21	10.822	0.499	4.6	10.85	7.57 - 14.07
Siemens Dimension TPSA	15	13.858	1.386	10.0	14.15	9.70 - 18.02	16	9.303	0.798	8.6	9.38	6.51 - 12.10
TOSOH AIA PACK	12	11.947	0.495	4.1	11.93	8.36 - 15.54	12	8.127	0.317	3.9	8.13	5.68 - 10.57
TOSOH ST AIA PACK	20	11.912	0.442	3.7	11.88	8.33 - 15.49	19	8.043	0.382	4.7	8.13	5.62 - 10.46

**Beta-2 microglobulin**

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<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	2.842	0.250	8.8	2.80	2.09 - 3.60	6	0.558	0.052	9.2	0.58	0.40 - 0.72

**CA 125 (U/mL)**

<u>Method</u>	Specimen TM-3						Specimen TM-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	16	118.1	15.8	13.4	139	82 - 154	16	10.5	2.2	20.7	13	6 - 15
All TOSOH Instruments	11	185.9	8.8	4.7	185	130 - 242	11	14.8	0.7	4.8	15	10 - 20
TOSOH ST AIA PACK	10	185.9	8.8	4.7	185	130 - 242	10	14.8	0.7	4.8	15	10 - 20

**CA 15-3 (U/mL)**

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<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	60.6	27.1	44.7	60	6 - 115	10	13.6	5.0	36.6	12	3 - 24

**CA 19-9 (U/mL)**

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<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	148.1	62.1	41.9	117	23 - 273	10	11.3	1.8	15.6	11	7 - 15

**CA 27/29 (U/mL)**

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<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	309.2	26.7	8.6	304	216 - 402	16	33.1	2.1	6.5	34	23 - 44
All TOSOH Instruments	11	309.2	26.7	8.6	304	216 - 402	11	33.1	2.1	6.5	34	23 - 44
TOSOH ST AIA PACK	10	305.4	25.7	8.4	303	213 - 397	10	33.0	2.3	6.9	34	23 - 43

**CEA (ng/mL)**

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<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	27.74	7.34	26.5	26.7	19.4 - 36.1	11	3.15	0.34	11.0	3.7	1.9 - 4.4

**Free PSA (ng/mL)**

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<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	4.708	0.832	17.7	4.72	3.29 - 6.13	13	1.679	0.276	16.5	1.65	0.77 - 2.58

**PSA (ng/mL)**

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<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	5.062	1.003	19.8	4.98	3.54 - 6.59	33	2.010	0.319	15.9	1.91	1.11 - 2.91

**Thyroglobulin (ng/mL)**

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<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	71.78	28.57	39.8	52.7	14.6 - 129.0	5	3.08	1.56	50.6	4.0	0.0 - 6.2

**CEA (ng/mL)**

<u>Method</u>	<u>Specimen SC-5</u>						<u>Specimen SC-6</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	14	20.75	4.51	21.7	19.7	14.5 - 27.0	14	14.60	3.23	22.1	13.9	10.2 - 19.0
TOSOH AIA PACK	10	19.30	1.01	5.2	19.6	13.5 - 25.1	10	13.34	0.80	6.0	13.5	9.3 - 17.4

**DHEA-S (µg/dL)**

<u>Method</u>	<u>Specimen SC-5</u>						<u>Specimen SC-6</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	14	420.77	54.47	12.9	409.9	294.5 - 547.0	14	290.28	59.53	20.5	300.0	203.1 - 377.4
Beckman ACCESS / 2 / Dxl	10	406.90	36.80	9.0	405.3	284.8 - 529.0	10	292.77	22.07	7.5	292.8	204.9 - 380.7

**Estradiol (pg/mL)**

<u>Method</u>	<u>Specimen SC-5</u>						<u>Specimen SC-6</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	29	421.0	101.0	24.0	394	218 - 624	29	318.0	64.3	20.2	309	189 - 447
Beckman ACCESS / 2 / Dxl	11	375.5	44.1	11.7	371	287 - 464	11	300.9	34.1	11.3	309	232 - 370

**Ferritin (ng/mL)**

<u>Method</u>	<u>Specimen SC-5</u>						<u>Specimen SC-6</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	41	215.5	32.5	15.1	175	150 - 281	41	154.5	23.7	15.4	121	108 - 201
All TOSOH Instruments	25	160.2	5.8	3.6	160	112 - 209	25	112.7	4.3	3.8	114	78 - 147
Beckman ACCESS / 2 / Dxl	30	170.1	11.0	6.5	171	119 - 222	30	118.3	8.8	7.4	119	82 - 154
Siemens Dimension	11	218.5	8.1	3.7	220	152 - 284	11	157.8	7.3	4.6	158	110 - 206
TOSOH ST AIA PACK	16	161.1	5.7	3.5	162	112 - 210	16	113.1	4.5	4.0	114	79 - 148



**Folate (ng/mL)**

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<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	45	4.18	0.93	22.3	4.9	2.9 - 5.5	45	2.83	0.67	23.8	3.5	1.9 - 3.8
All Roche Instruments	10	4.07	0.41	10.0	4.2	2.8 - 5.3	10	2.43	0.31	12.6	2.4	1.5 - 3.4
All Siemens Dimension Instruments	11	3.30	0.38	11.5	3.3	2.3 - 4.3	11	2.50	0.28	11.3	2.6	1.6 - 3.4
All TOSOH Instruments	11	4.09	0.39	9.6	4.0	2.8 - 5.4	11	3.45	0.34	9.8	3.4	2.4 - 4.5
Beckman ACCESS / 2 / Dxl	24	5.96	0.43	7.2	6.0	4.1 - 7.8	24	4.05	0.34	8.5	4.1	2.8 - 5.3
Siemens Dimension	10	3.23	0.42	12.9	3.1	2.2 - 4.3	10	2.45	0.30	12.3	2.5	1.5 - 3.4
TOSOH AIA PACK	10	4.08	0.43	10.6	4.0	2.8 - 5.3	10	3.54	0.30	8.4	3.5	2.4 - 4.6

**FSH (mIU/mL)**

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<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	48.29	4.18	8.7	47.7	36.2 - 60.4	29	34.07	3.34	9.8	33.5	25.5 - 42.6
Beckman ACCESS / 2 / Dxl	11	49.11	4.43	9.0	47.7	36.8 - 61.4	11	35.67	2.44	6.9	35.6	26.7 - 44.6

**Homocysteine (µmol/L)**

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<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	57.3	9.2	16.0	58	40 - 75	11	44.5	3.6	8.0	45	31 - 58

**LH (mIU/mL)**

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<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	21	48.41	10.90	22.5	55.1	26.6 - 70.3	21	33.41	8.05	24.1	38.6	17.3 - 49.6
Beckman ACCESS / 2 / Dxl	10	38.85	2.19	5.6	38.5	34.4 - 43.3	10	26.09	1.12	4.3	25.8	23.8 - 28.4

**Progesterone (ng/mL)**

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<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	31.96	5.75	18.0	32.8	22.3 - 41.6	19	23.77	4.14	17.4	23.1	16.6 - 31.0

**Prolactin (ng/mL)**

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<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	17	45.01	4.35	9.7	45.2	31.5 - 58.6	17	28.59	2.19	7.7	28.1	20.0 - 37.2

**Testosterone (ng/dL)**

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<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	1171.0	203.1	17.3	1173	819 - 1523	72	885.6	154.6	17.5	828	619 - 1152
All Roche Instruments	10	1309.8	107.9	8.2	1255	916 - 1703	10	969.8	67.9	7.0	944	678 - 1261
All Siemens Immulite Instruments	12	1317.7	114.7	8.7	1294	922 - 1713	12	1097.2	154.0	14.0	1111	768 - 1427
All TOSOH Instruments	21	1390.1	77.9	5.6	1379	973 - 1808	21	1033.2	77.0	7.5	1033	723 - 1344
Abbott Architect	10	1207.4	163.4	13.5	1209	845 - 1570	10	833.1	43.8	5.3	821	583 - 1084
Beckman ACCESS / 2 / Dxl	28	1030.1	94.3	9.2	1031	721 - 1340	27	773.6	50.3	6.5	782	541 - 1006
Siemens Immulite/1000	10	1339.8	113.1	8.4	1327	937 - 1742	10	1136.6	134.1	11.8	1136	795 - 1478
TOSOH AIA PACK	10	1360.3	54.1	4.0	1382	952 - 1769	10	1006.2	42.4	4.2	1004	704 - 1309
TOSOH ST AIA PACK	11	1406.4	86.1	6.1	1379	984 - 1829	11	1047.9	89.0	8.5	1038	733 - 1363

**Transferrin (mg/dL)**

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<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	253.4	7.1	2.8	255	228 - 279	10	219.1	27.3	12.5	214	197 - 242

**Vitamin B<sub>12</sub> (pg/mL)**

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<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	89	1026.7	142.0	13.8	1004	718 - 1335	92	816.1	97.1	11.9	817	571 - 1061
All Roche Instruments	14	1261.4	146.5	11.6	1252	882 - 1640	14	930.9	76.4	8.2	919	651 - 1211
All TOSOH Instruments	21	1107.9	73.8	6.7	1106	775 - 1441	21	901.3	46.7	5.2	896	630 - 1172
Abbott Architect	10	1174.5	70.9	6.0	1168	822 - 1527	10	870.5	35.9	4.1	878	609 - 1132
Beckman ACCESS / 2 / Dxl	34	903.6	64.5	7.1	912	632 - 1175	33	718.2	37.7	5.2	723	502 - 934
Roche cobas e 411	10	1331.8	132.1	9.9	1263	932 - 1732	10	963.8	74.0	7.7	939	674 - 1253
Siemens Dimension	11	1118.2	56.1	5.0	1119	782 - 1454	11	838.7	39.6	4.7	840	587 - 1091
TOSOH AIA PACK	11	1103.5	85.0	7.7	1089	772 - 1435	11	897.6	52.7	5.9	896	628 - 1167
TOSOH ST AIA PACK	10	1002.6	264.0	26.3	1111	701 - 1304	10	823.2	198.8	24.2	896	576 - 1071

**Serum Alcohol (mg/dL)**

<u>Method</u>	<b>Specimen ETH-11</b>						<b>Specimen ETH-12</b>					
	<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	153.3	18.5	12.1	163	114 - 192	5	119.7	7.5	6.3	124	89 - 150
<u>Method</u>	<b>Specimen ETH-13</b>						<b>Specimen ETH-14</b>					
	<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	7.3	2.3	31.5	6	5 - 10	5	192.0	14.8	7.7	199	144 - 240
<u>Method</u>	<b>Specimen ETH-15</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
ALL METHODS	5	122.7	8.4	6.8	127	92 - 154						

**Acetone**

<u>Method</u>	<b>Specimen ETH-11</b>					<b>Specimen ETH-12</b>				
	<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	13	13	-	-	-	13	-	-	4	9
Biorex Labs K-CHECK	9	9	-	-	-	9	-	-	-	9
Germaine Laboratories AimTab	1	1	-	-	-	1	-	-	1	-
Siemens Acetest	3	3	-	-	-	3	-	-	3	-
<u>Method</u>	<b>Specimen ETH-13</b>					<b>Specimen ETH-14</b>				
	<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	13	13	-	-	-	13	-	-	4	9
Biorex Labs K-CHECK	9	9	-	-	-	9	-	-	1	8
Germaine Laboratories AimTab	1	1	-	-	-	1	-	-	1	-
Siemens Acetest	3	3	-	-	-	3	-	-	2	1
<u>Method</u>	<b>Specimen ETH-15</b>									
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>					
ALL METHODS	13	13	-	-	-					
Biorex Labs K-CHECK	9	9	-	-	-					
Germaine Laboratories AimTab	1	1	-	-	-					
Siemens Acetest	3	3	-	-	-					

### Thyroglobulin Antibody (IU/mL)

<u>Method</u>	Specimen THY-5						Specimen THY-6					
	<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	3.383	6.780	200.4	0.30	0.00 - 16.95	19	734.844	311.985	42.5	753.00	110.87 - 1358.82
Beckman ACCESS / 2 / Dxl	10	0.650	1.201	184.8	0.20	0.00 - 3.06	10	941.632	150.963	16.0	911.20	639.70 - 1243.56

### Thyroid Peroxidase Antibody (TPO) (IU/mL)

<u>Method</u>	Specimen THY-5						Specimen THY-6					
	<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	3.383	6.780	200.4	0.30	0.00 - 16.95	18	32.303	16.870	52.2	24.00	0.00 - 66.05
Beckman ACCESS / 2 / Dxl	10	0.650	1.201	184.8	0.20	0.00 - 3.06	10	23.270	0.779	3.3	23.35	21.71 - 24.83

### Ammonia (µmol/L)

<u>Method</u>	Specimen AMM-5						Specimen AMM-6					
	<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	5.023	8.673	172.7	0.45	0.00 - 22.37	6	51.5	11.2	21.7	55	29 - 74
Siemens Dimension	10	1.260	2.720	215.9	0.40	0.00 - 6.70	5	56.7	5.1	9.1	58	46 - 67

### Adulterated Urine – Specific Gravity

<u>Method</u>	Specimen AUR-5						Specimen AUR-6					
	<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	1.0080	0.0014	0.1	1.008	0.998 - 1.018	6	1.0055	0.0035	0.3	1.006	0.995 - 1.016

### Adulterated Urine – Specific Gravity Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	2	2	-	2	2	-
Indiko Plus	2	2	-	2	2	-

**Adulterated Urine – pH**

<u>Method</u>	Specimen AUR-5						Specimen AUR-6					
	<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	-	-	-	2.29	Not graded	2	-	-	-	7.02	Not graded

**Adulterated Urine – pH Interpretation**

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	2	1	1	2	-	2
Carolina Chemistries BiOlis	2	1	1	2	-	2

**Adulterated Urine – Creatinine (mg/dL)**

<u>Method</u>	Specimen AUR-5						Specimen AUR-6					
	<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	60.07	2.71	4.5	59.8	49.8 - 70.3	6	5.90	0.27	4.6	6.0	2.9 - 8.9
Beckman AU	5	60.20	3.82	6.3	60.2	49.9 - 70.5	5	5.87	0.32	5.5	6.0	2.8 - 8.9

**Adulterated Urine – Creatinine Interpretation**

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<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	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1

**Adulterated Urine – Nitrite Interpretation**

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
All Methods	2	2	-	2	-	2
Beckman AU	2	2	-	2	-	2

**Adulterated Urine – Oxidants Interpretation**

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<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	2	2	-	2	-	2

**Ethyl Glucuronide (EtG) (ng/mL)**

<u>Method</u>	Specimen ETG-5			Specimen ETG-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	3	-	3	2	2	-
Cut-off 500						
Beckman AU	1	-	1	-	-	-
ImmTox	1	-	1	1	1	-
All Cut-off 500	2	-	2	1	1	-
Cut-off 1000						
Siemens Viva-E	1	-	1	1	1	-
All Cut-off 1000	1	-	1	1	1	-

**Urine Drug Screen**

**Acetaminophen (µg/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	-	5	5	-	5

**Amphetamines (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	85	-	85	85	-	85
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 500						
Alere iCup	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
ImmTox	2	-	2	2	-	2
Indiko Plus	2	-	2	2	-	2
MEDTOX Diagnostics	6	-	6	6	-	6
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
Siemens Viva-E	1	-	1	1	-	1
Synermed IR 500	1	-	1	1	-	1
All Cut-off 500	20	-	20	20	-	20
Cut-off 1000						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	4	-	4	4	-	4
Alere iScreen	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	21	-	21	21	-	21
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
Germaine Laboratories AimScreen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	3	-	3	3	-	3
Microgenics DRI	5	-	5	5	-	5
Noble Medical Inc.	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 1000	57	-	57	57	-	57



**Amphetamines/Methamphetamines (ng/mL)**

<b><u>Method</u></b>	<b>Specimen UDS-5</b>			<b>Specimen UDS-6</b>		
	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
All Methods	11	-	11	11	-	11
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 300						
Roche Integra	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Beckman AU	3	-	3	3	-	3
All Cut-off 500	5	-	5	5	-	5
Cut-off 1000						
Microgenics DRI	2	-	2	2	-	2
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 1000	3	-	3	3	-	3

**Barbiturates (ng/mL)**

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	79	-	79	79	-	79
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 200						
Abbott Architect	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
Beckman AU	4	-	4	4	-	4
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	2	-	2	2	-	2
Roche Cobas 8000 / c502	1	-	1	1	-	1
Roche Integra	3	-	3	3	-	3
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	28	-	28	28	-	28
Cut-off 300						
Alere iCassette	3	-	3	3	-	3
Alere iCup	5	-	5	5	-	5
Alere iScreen	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	21	-	21	21	-	21
Microgenics DRI	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	1	-	1	1	-	1
All Cut-off 300	42	-	42	42	-	42

**Benzodiazepines (ng/mL)**

<b><u>Method</u></b>	<b>Specimen UDS-5</b>			<b>Specimen UDS-6</b>		
	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
All Methods	87	-	87	87	-	87
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
All Cut-off 100	3	-	3	3	-	3
Cut-off 150						
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
All Cut-off 150	7	-	7	7	-	7
Cut-off 200						
Abbott Architect	1	-	1	1	-	1
Beckman AU	4	-	4	4	-	4
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Indiko Plus	2	-	2	2	-	2
Lin-Zhi International	3	-	3	3	-	3
Microgenics DRI	4	-	4	4	-	4
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	4	-	4	4	-	4
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	24	-	24	24	-	24
Cut-off 300						
Alere iCassette	3	-	3	3	-	3
Alere iCup	5	-	5	5	-	5
Alere iScreen	2	-	2	2	-	2
Alfa Scientific Instant-View	2	-	2	2	-	2
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	21	-	21	21	-	21
Microgenics DRI	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnosics One Step Multi-Drug	2	-	2	2	-	2
USDiagnosics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	45	-	45	45	-	45

**Buprenorphine (ng/mL)**

<b><u>Method</u></b>	<b>Specimen UDS-5</b>			<b>Specimen UDS-6</b>		
	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
All Methods	39	38	1	38	-	38
Cut-off 5						
Beckman AU	3	3	-	3	-	3
ImmTox	2	2	-	2	-	2
Indiko Plus	1	1	-	1	-	1
Lin-Zhi International	3	3	-	3	-	3
Medica EasyRA	1	1	-	1	-	1
Microgenics CEDIA	4	4	-	4	-	4
Siemens EMIT II Plus	2	2	-	2	-	2
Synermed IR 500	1	1	-	1	-	1
All Cut-off 5	17	17	-	17	-	17
Cut-off 10						
Alere iCup	1	1	-	1	-	1
Alere iScreen	1	1	-	1	-	1
Chemtron Biotech	1	1	-	1	-	1
MD Multi-Drug Urine Test Cup	1	1	-	1	-	1
MEDTOX Diagnostics	3	3	-	3	-	3
Microgenics CEDIA	1	1	-	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	2	2	-	1	-	1
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
All Cut-off 10	16	15	1	15	-	15
Cut-off 20						
Indiko Plus	1	1	-	1	-	1
All Cut-off 20	1	1	-	1	-	1
Cut-off 15						
Beckman AU	1	1	-	1	-	1
All Cut-off 15	1	1	-	1	-	1

**Cannabinoids (THC) (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	100	1	99	100	-	100
Cut-off 20						
Roche Integra	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 20	2	-	2	2	-	2
Cut-off 50						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	6	-	6	6	-	6
Alere iScreen	1	-	1	1	-	1
Alfa Scientific Instant-View	7	-	7	7	-	7
Beckman AU	4	-	4	4	-	4
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	21	-	21	21	-	21
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
Germaine Laboratories AimScreen	3	-	3	3	-	3
ImmTox	2	-	2	2	-	2
Indiko Plus	2	-	2	2	-	2
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	3	-	3	3	-	3
MEDTOX Diagnostics	6	-	6	6	-	6
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 8000 / c502	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 50	86	1	85	86	-	86
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

**Carisoprodol (ng/mL)**

<b><u>Method</u></b>	<b>Specimen UDS-5</b>			<b>Specimen UDS-6</b>		
	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
All Methods	2	2	-	2	-	2
Cut-off 100						
Beckman AU	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
All Cut-off 100	2	2	-	2	-	2

**Cocaine Metabolites (ng/mL)**

<b><u>Method</u></b>	<b>Specimen UDS-5</b>			<b>Specimen UDS-6</b>		
	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
All Methods	103	-	103	104	103	1
Cut-off 100						
Beckman AU	1	-	1	1	1	-
Medica EasyRA	1	-	1	1	1	-
All Cut-off 100	2	-	2	2	2	-
Cut-off 150						
Alere iCup	1	-	1	1	1	-
Beckman AU	4	-	4	4	4	-
ImmTox	2	-	2	2	2	-
Indiko Plus	1	-	1	1	1	-
MEDTOX Diagnostics	6	-	6	6	6	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	2	2	-
Roche Integra	1	-	1	1	1	-
Siemens Dimension	1	-	1	1	1	-
Siemens EMIT II Plus	2	-	2	2	2	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 150	21	-	21	22	22	-
Cut-off 300						
Abbott Architect	1	-	1	1	1	-
Alere iCassette	3	-	3	3	3	-
Alere iCup	5	-	5	5	5	-
Alere iScreen	1	-	1	1	1	-
Alfa Scientific Instant-View	7	-	7	7	7	-
Bio-Rad TOX/See	1	-	1	1	1	-
BMC QuickTox Drug Screen	21	-	21	21	21	-
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
Germaine Laboratories AimScreen	3	-	3	3	3	-
Innovacon Multi-Drug One Step	1	-	1	1	1	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
Lin-Zhi International	3	-	3	3	3	-
Microgenics DRI	6	-	6	6	6	-
Noble Medical Inc.	1	-	1	1	1	-
Roche Cobas 8000 / c502	1	-	1	1	1	-
Roche Integra	2	-	2	2	2	-
Siemens EMIT II Plus	2	-	2	2	2	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	1	-	1	1	1	-
All Cut-off 300	70	-	70	70	70	-

**Cotinine (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	-	2	2	-	2

**EDDP (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	-	5	5	-	5
Cut-off 100						
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
All Cut-off 100	3	-	3	3	-	3
Cut-off 300						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1



**Ethanol (Alcohol) (mg/dL)**

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<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 10						
Abbott Architect	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 10	2	-	2	2	-	2
Cut-off 20						
Beckman AU	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 20	3	-	3	3	-	3
Cut-off 50						
Beckman AU	1	-	1	1	-	1
All Cut-off 50	1	-	1	1	-	1
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	2	-	2	2	-	2
Microgenics DRI	1	-	1	1	-	1
All Cut-off 100	6	-	6	6	-	6
Cut-off 3						
Roche Cobas 8000 / c502	1	-	1	1	-	1
All Cut-off 3	1	-	1	1	-	1

**Fentanyl (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<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 1						
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
All Cut-off 1	2	-	2	2	-	2
Cut-off 2						
ImmTox	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 2	4	-	4	4	-	4

**Hydrocodone (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	-	2	2	-	2

**LSD (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	-	2	2	-	2

**MDMA (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	46	-	46	46	-	46
Cut-off 100						
Alfa Scientific Instant-View	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 500						
Alere iCassette	1	-	1	1	-	1
Alere iCup	4	-	4	4	-	4
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	21	-	21	21	-	21
Microgenics DRI	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnosics One Step Multi-Drug	2	-	2	2	-	2
USDiagnosics UScreen Cup	1	-	1	1	-	1
All Cut-off 500	39	-	39	39	-	39
Cut-off 1000						
All Cut-off 1000	1	-	1	1	-	1

**Meperidine (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	-	2	2	-	2

**Methadone (ng/mL)**

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	80	-	80	81	76	5
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	2	-	2	2	2	-
All Cut-off 150	3	-	3	3	3	-
Cut-off 200						
MEDTOX Diagnostics	5	-	5	5	5	-
All Cut-off 200	5	-	5	5	5	-
Cut-off 300						
Abbott Architect	1	-	1	1	1	-
Alere iCassette	3	-	3	3	3	-
Alere iCup	5	-	5	5	5	-
Alere iScreen	1	-	1	1	1	-
Alfa Scientific Instant-View	1	-	1	1	1	-
Beckman AU	2	-	2	2	2	-
Bio-Rad TOX/See	1	-	1	1	1	-
BMC QuickTox Drug Screen	21	-	21	21	17	4
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
Lin-Zhi International	3	-	3	3	3	-
Microgenics DRI	7	-	7	7	7	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	2	2	-
Roche Integra	2	-	2	2	2	-
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	1	-	1	1	1	-
All Cut-off 300	62	-	62	63	59	4
Cut-off 1000						
Indiko Plus	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1

**Methamphetamines (ng/mL)**

<b><u>Method</u></b>	<b>Specimen UDS-5</b>			<b>Specimen UDS-6</b>		
	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
All Methods	60	-	60	60	-	60
Cut-off 500						
Alere iCup	1	-	1	1	-	1
Alere iScreen	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
BMC QuickTox Drug Screen	21	-	21	21	-	21
ImmTox	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 500	36	-	36	36	-	36
Cut-off 1000						
Alere iCassette	3	-	3	3	-	3
Alere iCup	6	-	6	6	-	6
Alfa Scientific Instant-View	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
USDiagnosics One Step Multi-Drug	2	-	2	2	-	2
USDiagnosics UScreen Cup	1	-	1	1	-	1
All Cut-off 1000	18	-	18	18	-	18

**Methanol (mg/dL)**

	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	-	2	2	-	2

**Methaqualone (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1
Cut-off 300						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1

**6-MAM (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<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	2	2	-	2	-	2
ImmTox	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Microgenics CEDIA	1	1	-	1	-	1
Microgenics DRI	1	1	-	1	-	1
Siemens EMIT II Plus	1	1	-	1	-	1
Siemens Viva-E	1	1	-	1	-	1
All Cut-off 10	8	8	-	8	-	8

**Opiates (Morphine Trihydrate) (ng/mL)**

<u>Method</u>	<b>Specimen UDS-5</b>			<b>Specimen UDS-6</b>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	107	-	107	108	106	2
Cut-off 100						
Beckman AU	1	-	1	1	1	-
Medica EasyRA	1	-	1	1	1	-
MEDTOX Diagnostics	5	-	5	5	5	-
Siemens Dimension	1	-	1	1	1	-
All Cut-off 100	8	-	8	8	8	-
Cut-off 300						
Abbott Architect	1	-	1	1	1	-
Alere iCup	2	-	2	2	2	-
Alere iScreen	2	-	2	2	2	-
Alfa Scientific Instant-View	3	-	3	3	3	-
Beckman AU	5	-	5	5	5	-
BMC QuickTox Drug Screen	21	-	21	21	21	-
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
ImmTox	2	-	2	2	2	-
Indiko Plus	2	-	2	2	2	-
Lin-Zhi International	3	-	3	3	3	-
Microgenics DRI	5	-	5	5	5	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	2	2	-
Roche Cobas 8000 / c502	1	-	1	1	1	-
Roche Integra	3	-	3	3	3	-
Siemens EMIT II Plus	4	-	4	4	4	-
Synermed IR 500	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	1	-	1	1	1	-
All Cut-off 300	63	-	63	64	63	1
Cut-off 1000						
Microgenics DRI	1	-	1	1	1	-
All Cut-off 1000	1	-	1	1	1	-
Cut-off 2000						
Alere iCassette	3	-	3	3	3	-
Alere iCup	5	-	5	5	5	-
Alfa Scientific Instant-View	4	-	4	4	4	-
Bio-Rad TOX/See	1	-	1	1	1	-
Germaine Laboratories AimScreen	3	-	3	3	3	-
Innovacon Multi-Drug One Step	1	-	1	1	1	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
Microgenics DRI	1	-	1	1	1	-
Noble Medical Inc.	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	1	-	1	1	1	-
USDiagnostics UScreen Cup	1	-	1	1	1	-
All Cut-off 2000	25	-	25	25	24	1

**Oxycodone (ng/mL)**

<b><u>Method</u></b>	<b>Specimen UDS-5</b>			<b>Specimen UDS-6</b>		
	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Labs</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
All Methods	78	-	78	78	4	74
Cut-off 100						
Alere iCassette	3	-	3	3	-	3
Alere iCup	5	-	5	5	-	5
Alere iScreen	2	-	2	2	1	1
Beckman AU	5	-	5	5	-	5
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	21	-	21	21	1	20
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Lin-Zhi International	2	-	2	2	-	2
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	7	-	7	7	-	7
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche Integra	3	-	3	3	-	3
USDiagnosics One Step Multi-Drug	1	-	1	1	-	1
USDiagnosics UScreen Cup	1	-	1	1	-	1
All Cut-off 100	66	-	66	66	2	64
Cut-off 300						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 300	5	-	5	5	-	5



**Phencyclidine (PCP) (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	70	-	70	70	-	70
Cut-off 25						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	3	-	3	3	-	3
Alfa Scientific Instant-View	1	-	1	1	-	1
Beckman AU	3	-	3	3	-	3
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	21	-	21	21	-	21
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Germaine Laboratories AimScreen	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	3	-	3	3	-	3
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 25	64	-	64	64	-	64
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

**Propoxyphene (ng/mL)**

<u>Method</u>	<b>Specimen UDS-5</b>			<b>Specimen UDS-6</b>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	17	-	17	16	-	16
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	2	-	2	2	-	2
Alere iCup	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 300	16	-	16	15	-	15

**Tramadol (ng/mL)**

	<b>Specimen UDS-5</b>			<b>Specimen UDS-6</b>		
	<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 200						
Beckman AU	1	-	1	1	1	-
ImmTox	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 200	3	-	3	3	3	-

**Tricyclic Antidepressants (ng/mL)**

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	15	14	1	15	-	15
Cut-off 300						
MEDTOX Diagnostics	5	5	-	5	-	5
All Cut-off 300	5	5	-	5	-	5
Cut-off 1000						
Alere iCassette	1	1	-	1	-	1
Alere iCup	2	2	-	2	-	2
Alfa Scientific Instant-View	1	1	-	1	-	1
Bio-Rad TOX/See	1	1	-	1	-	1
USDiagnostics UScreen Cup	1	1	-	1	-	1
All Cut-off 1000	8	7	1	8	-	8

**Zolpidem (mg/dL)**

	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	1	-
Cut-off 20						
Beckman AU	1	-	1	1	1	-
All Cut-off 20	1	-	1	1	1	-

**Urine Amylase (U/L)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	-	-	-	342	Not graded	1	-	-	-	240	Not graded

**Urine Calcium (mg/dL)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	4.30	0.28	6.6	4.3	2.9 - 5.7	5	7.20	0.42	5.9	7.2	4.9 - 9.5

**Urine Chloride (mmol/L)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	-	-	-	260	Not graded	1	-	-	-	168	Not graded

**Urine Creatinine (mg/dL)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	192.38	15.14	7.9	194.4	159.6 - 225.1	10	120.18	10.55	8.8	121.9	99.7 - 140.7

**Urine Glucose (mg/dL)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	-	-	-	270	Not graded	1	-	-	-	145	Not graded

**Urine Magnesium (mg/dL)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	-	-	-	9.3	Not graded	1	-	-	-	6.3	Not graded

**Urine Osmolality (mOsm/kg)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	-	-	-	874	Not graded	1	-	-	-	37.1	Not graded

**Urine Phosphorus (mg/dL)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	-	-	-	62	Not graded	1	-	-	-	534	Not graded

**Urine Potassium (mmol/L)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	105.45	6.29	6.0	105.5	74.8 - 136.1	5	71.95	2.76	3.8	72.0	51.0 - 92.9

**Urine Sodium (mmol/L)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	199.7	9.9	4.9	195	147 - 252	5	131.3	8.5	6.5	128	97 - 166

**Urine Total Protein (mg/dL)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	109.95	10.65	9.7	107.9	61.5 - 158.4	10	51.50	6.91	13.4	50.4	28.8 - 74.2

**Urine Urea Nitrogen (mg/dL)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	-	-	-	761	Not graded	1	-	-	-	583	Not graded

**Urine Uric Acid (mg/dL)**

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<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	-	-	-	9	Not graded	1	-	-	-	6	Not graded

**Medical Laboratory Evaluation**  
 25 Massachusetts Ave NW Ste 700  
 Washington, DC 20001-7401  
 800-338-2746 • 202-261-4500 • Fax: 202-835-0440  
[www.acponline.org/mle](http://www.acponline.org/mle)