

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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

Chemistry
MLE-M3

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EVALUATION CRITERIA

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

Acetaminophen	± 3 SD or 10% *	Insulin	± 2 SD
Acetone	80% Consensus	Iron	$\pm 20\%$
Albumin	$\pm 10\%$	Lactate Dehydrogenase	$\pm 20\%$
Alcohol	$\pm 25\%$	LDL Cholesterol	$\pm 30\%$
Alpha-fetoprotein	± 3 SD	Lipase	$\pm 30\%$
Alkaline Phosphatase	$\pm 30\%$	LH	± 2 SD
ALT (SGPT)	$\pm 20\%$	Lithium	± 0.3 mmol/L or 20% *
Ammonia	± 10 μ mol/L or 5% *	Magnesium	$\pm 25\%$
Amylase	$\pm 30\%$	Myoglobin (Qualitative)	80% Consensus
Anti-Microsomal Antibody	± 2 SD	Myoglobin (Quantitative)	$\pm 30\%$
Anti-Thyroglobulin Antibody	± 2 SD	NT-proBNP	± 2 SD
Apolipoprotein A1	$\pm 30\%$	Parathyroid Hormone	± 2 SD
Apolipoprotein B	$\pm 25\%$	Phenobarbital	$\pm 20\%$
AST (SGOT)	$\pm 20\%$	Phenytoin	$\pm 25\%$
B-Type Natriuretic Peptide (BNP)	± 3 SD	Phosphorus	± 0.3 mg/dL or 10.7% *
Beta-2 Microglobulin	± 3 SD	Potassium	± 0.5 mmol/L
Bilirubin, Direct	± 2 SD	Progesterone	$\pm 30\%$
Bilirubin, Total	± 0.4 mg/dL or 20% *	Prolactin	± 3.6 ng/mL or 30% *
Bilirubin, Neonatal (Total)	± 0.4 mg/dL or 20% *	Protein, Total	$\pm 10\%$
C-Peptide	± 2 SD	PSA	± 0.9 ng/mL or 30% *
CA 125	$\pm 30\%$	PSA, Free	± 0.9 ng/mL or 30% *
CA 15-3	± 3 SD	pCO ₂	± 5 mmHg or 8% *
CA 19-9	± 3 SD	pH	± 0.04
CA 27/29	± 3 SD	pO ₂	± 3 SD
Calcium	± 1.0 mg/dL	Salicylate	± 3 SD or 10% *
Calcium, Ionized	± 3 SD	Sodium	± 4.0 mmol/L
Carbamazepine	$\pm 25\%$	T Uptake (Uptake Units)	± 3 SD
CEA	± 1.2 ng/mL 30%	T ₃ Uptake (% Uptake)	± 3 SD
Chloride	$\pm 5\%$	T ₃ , Free	± 3 SD
Cholesterol	$\pm 10\%$	T ₄ , Free	± 3 SD
CK-MB (Qualitative)	80% Consensus	tCO ₂	$\pm 20\%$
CK-MB (Quantitative)	± 3 SD	Testosterone	$\pm 30\%$
CO ₂	$\pm 20\%$	Theophylline	$\pm 25\%$
Cortisol	$\pm 25\%$	Thyroglobulin	± 2 SD
Creatine Kinase	$\pm 30\%$	Thyroxine, Total T ₄	± 1.0 mcg/dL or 20% *
Creatinine	± 0.3 mg/dL or 15% *	TIBC	± 2 SD or 20% *
D-Dimer	$\pm 30\%$	Transferrin	$\pm 7\%$
Digoxin	± 0.2 mg/dL or 20% *	Triglyceride	$\pm 25\%$
Estradiol	± 2 SD	Triiodothyronine, Total T ₃	± 3 SD
Ferritin	$\pm 30\%$	Troponin I (Qualitative)	80% Consensus
Folate	$\pm 30\%$	Troponin I (Quantitative)	± 2 SD or 30% *
Fructosamine (mmol/L)	± 0.45 or 30% *	Troponin T (Qualitative)	80% Consensus
Fructosamine (μ mol/L)	± 45 or 30% *	TSH	± 3 SD
FSH	$\pm 25\%$	UIBC	± 2 SD or 20% *
Gentamicin	$\pm 25\%$	Urea Nitrogen	± 2.0 mg/dL or 9% *
GGT	± 2 SD or 20% *	Uric Acid	$\pm 17\%$
Glucose, Serum	± 6 mg/dL or 10% *	Urine Drug Screen	80% Consensus
Glucose, Whole Blood	± 12 mg/dL or 20% *	Valproic Acid	$\pm 25\%$
Glycohemoglobin	$\pm 10\%$	Vancomycin	± 3 SD or 10% *
HDL Cholesterol	$\pm 30\%$	Vitamin B ₁₂	$\pm 30\%$
HCG, Serum—Qualitative	80% Consensus	Vitamin D	± 2 SD
HCG, Serum—Quantitative	± 3 SD		
Hematocrit	$\pm 6\%$		
Hemoglobin	$\pm 7\%$		
Homocysteine	$\pm 20\%$		

*Whichever is greater

Sodium (mmol/L)

Specimen IST-11							Specimen IST-12					
<u>Instrument</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	80	171.4	1.8	1.0	172	167 - 176	81	135.1	1.0	0.7	135	131 - 140
All i-STAT Instruments	80	171.4	1.8	1.0	172	167 - 176	81	135.1	1.0	0.7	135	131 - 140
i-STAT - moderate	13	171.4	1.3	0.7	172	167 - 176	13	135.1	1.0	0.8	135	131 - 140
i-STAT - waived	67	171.4	1.9	1.1	172	167 - 176	68	135.1	1.0	0.7	135	131 - 140
Specimen IST-13							Specimen IST-14					
All Method	73	121.9	0.8	0.7	122	117 - 126	73	109.7	0.6	0.5	110	105 - 114
All i-STAT Instruments	73	121.9	0.8	0.7	122	117 - 126	73	109.7	0.6	0.5	110	105 - 114
i-STAT - moderate	12	122.0	0.7	0.6	122	118 - 126	12	109.8	0.9	0.8	110	105 - 114
i-STAT - waived	61	121.9	0.8	0.7	122	117 - 126	61	109.7	0.5	0.5	110	105 - 114
Specimen IST-15												
All Method	73	138.8	1.4	1.0	139	134 - 143						
All i-STAT Instruments	73	138.8	1.4	1.0	139	134 - 143						
i-STAT - moderate	12	138.8	1.8	1.3	139	134 - 143						
i-STAT - waived	61	138.8	1.4	1.0	139	134 - 143						

Potassium (mmol/L)

Specimen IST-11							Specimen IST-12					
<u>Instrument</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	82	7.36	0.11	1.5	7.4	6.8 - 7.9	83	3.57	0.05	1.3	3.6	3.0 - 4.1
All i-STAT Instruments	82	7.36	0.11	1.5	7.4	6.8 - 7.9	83	3.57	0.05	1.3	3.6	3.0 - 4.1
i-STAT - moderate	13	7.38	0.10	1.4	7.4	6.8 - 7.9	13	3.56	0.05	1.4	3.6	3.0 - 4.1
i-STAT - waived	69	7.36	0.11	1.5	7.4	6.8 - 7.9	70	3.57	0.05	1.3	3.6	3.0 - 4.1
Specimen IST-13							Specimen IST-14					
All Method	72	2.90	0.00	0.0	2.9	2.4 - 3.4	66	2.30	0.00	0.0	2.3	1.8 - 2.8
All i-STAT Instruments	72	2.90	0.00	0.0	2.9	2.4 - 3.4	66	2.30	0.00	0.0	2.3	1.8 - 2.8
i-STAT - moderate	12	2.90	0.00	0.0	2.9	2.4 - 3.4	12	2.30	0.00	0.0	2.3	1.8 - 2.8
i-STAT - waived	60	2.90	0.00	0.0	2.9	2.4 - 3.4	61	2.31	0.03	1.4	2.3	1.8 - 2.9
Specimen IST-15												
All Method	73	4.34	0.06	1.4	4.3	3.8 - 4.9						
All i-STAT Instruments	73	4.34	0.06	1.4	4.3	3.8 - 4.9						
i-STAT - moderate	12	4.33	0.08	1.7	4.3	3.8 - 4.9						
i-STAT - waived	61	4.34	0.06	1.3	4.3	3.8 - 4.9						

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-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	75	122.5	3.4	2.8	122	116 - 129	76	102.2	1.5	1.5	102	97 - 108
All i-STAT Instruments	75	122.5	3.4	2.8	122	116 - 129	76	102.2	1.5	1.5	102	97 - 108
i-STAT - moderate	10	122.3	3.1	2.5	122	116 - 129	10	101.7	1.3	1.3	102	96 - 107
i-STAT - waived	65	122.5	3.5	2.8	122	116 - 129	66	102.3	1.5	1.5	102	97 - 108
<u>Instrument</u>	Specimen IST-13						Specimen IST-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	69	88.0	1.1	1.3	88	83 - 93	69	78.3	0.9	1.2	78	74 - 83
All i-STAT Instruments	69	88.0	1.1	1.3	88	83 - 93	69	78.3	0.9	1.2	78	74 - 83
i-STAT - moderate	9	-	-	-	88	83 - 93	9	-	-	-	78	74 - 83
i-STAT - waived	60	88.0	1.2	1.3	88	83 - 93	60	78.3	0.9	1.2	78	74 - 83
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	69	109.6	2.3	2.1	109	104 - 116						
All i-STAT Instruments	69	109.6	2.3	2.1	109	104 - 116						
i-STAT - moderate	9	-	-	-	110	104 - 116						
i-STAT - waived	60	109.5	2.3	2.1	109	104 - 115						

tCO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-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	68	42.1	1.4	3.2	42	33 - 51	66	22.4	0.6	2.5	22	17 - 27
All i-STAT Instruments	68	42.1	1.4	3.2	42	33 - 51	66	22.4	0.6	2.5	22	17 - 27
i-STAT - waived	61	42.0	1.4	3.3	42	33 - 51	60	22.4	0.6	2.5	22	17 - 27
<u>Instrument</u>	Specimen IST-13						Specimen IST-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	58	21.1	0.6	2.6	21	16 - 26	58	15.0	0.5	3.3	15	12 - 18
All i-STAT Instruments	58	21.1	0.6	2.6	21	16 - 26	58	15.0	0.5	3.3	15	12 - 18
i-STAT - waived	53	21.1	0.5	2.5	21	16 - 26	52	15.0	0.5	3.5	15	12 - 18
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	60	28.3	0.8	3.0	28	22 - 34						
All i-STAT Instruments	60	28.3	0.8	3.0	28	22 - 34						
i-STAT - waived	55	28.2	0.8	2.9	28	22 - 34						

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-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	77	4.7	0.5	9.9	5	2 - 7	79	11.7	0.5	4.0	12	9 - 14
All i-STAT Instruments	77	4.7	0.5	9.9	5	2 - 7	79	11.7	0.5	4.0	12	9 - 14
i-STAT - moderate	10	5.0	0.0	0.0	5	3 - 7	10	11.9	0.3	2.7	12	9 - 14
i-STAT - waived	67	4.7	0.5	10.5	5	2 - 7	69	11.7	0.5	4.1	12	9 - 14
<u>Instrument</u>	Specimen IST-13						Specimen IST-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	68	46.6	1.0	2.2	47	42 - 51	70	90.3	2.3	2.6	90	82 - 99
All i-STAT Instruments	68	46.6	1.0	2.2	47	42 - 51	70	90.3	2.3	2.6	90	82 - 99
i-STAT - moderate	9	-	-	-	47	42 - 51	9	-	-	-	90	82 - 99
i-STAT - waived	61	46.6	1.2	2.6	47	42 - 51	61	90.2	2.3	2.6	90	82 - 99
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	64	11.0	0.0	0.0	11	9 - 13						
All i-STAT Instruments	64	11.0	0.0	0.0	11	9 - 13						
i-STAT - moderate	9	-	-	-	11	9 - 13						
i-STAT - waived	56	11.0	0.0	0.0	11	9 - 13						

Glucose (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-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	80	28.6	2.3	7.9	28	22 - 35	74	130.7	2.1	1.6	131	117 - 144
All i-STAT Instruments	80	28.6	2.3	7.9	28	22 - 35	74	130.7	2.1	1.6	131	117 - 144
i-STAT - moderate	11	30.6	3.0	9.7	29	24 - 37	11	134.9	5.3	3.9	132	121 - 149
i-STAT - waived	66	28.0	1.5	5.3	28	21 - 34	64	130.3	1.3	1.0	130	117 - 144
<u>Instrument</u>	Specimen IST-13						Specimen IST-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	70	247.7	2.6	1.1	247	222 - 273	70	467.0	3.8	0.8	467	420 - 514
All i-STAT Instruments	70	247.7	2.6	1.1	247	222 - 273	70	467.0	3.8	0.8	467	420 - 514
i-STAT - moderate	10	249.5	3.8	1.5	249	224 - 275	10	467.0	5.1	1.1	466	420 - 514
i-STAT - waived	59	247.2	2.0	0.8	247	222 - 272	60	467.0	3.6	0.8	467	420 - 514
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	70	90.2	3.1	3.4	89	81 - 100						
All i-STAT Instruments	70	90.2	3.1	3.4	89	81 - 100						
i-STAT - moderate	10	92.7	4.7	5.0	90	83 - 102						
i-STAT - waived	55	89.1	1.3	1.4	89	80 - 99						

Hemoglobin (g/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-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	22.75	0.26	1.1	22.8	21.1 - 24.4	25	11.70	0.21	1.8	11.6	10.8 - 12.6
All i-STAT Instruments	24	22.75	0.26	1.1	22.8	21.1 - 24.4	25	11.70	0.21	1.8	11.6	10.8 - 12.6
i-STAT - waived	17	22.85	0.33	1.4	22.8	21.2 - 24.5	17	11.69	0.24	2.0	11.6	10.8 - 12.6
	Specimen IST-13						Specimen IST-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	20	7.32	0.23	3.1	7.3	6.8 - 7.9	20	4.73	0.22	4.6	4.8	4.3 - 5.1
All i-STAT Instruments	20	7.32	0.23	3.1	7.3	6.8 - 7.9	20	4.73	0.22	4.6	4.8	4.3 - 5.1
i-STAT - waived	13	7.25	0.20	2.8	7.1	6.7 - 7.8	13	4.68	0.19	4.1	4.8	4.3 - 5.1
	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	13.25	0.25	1.9	13.3	12.3 - 14.2						
All i-STAT Instruments	20	13.25	0.25	1.9	13.3	12.3 - 14.2						
i-STAT - waived	13	13.18	0.19	1.5	13.3	12.2 - 14.1						

Hematocrit (percent)

<u>Instrument</u>	Specimen IST-11						Specimen IST-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	67.0	0.8	1.1	67	62 - 71	25	34.4	0.6	1.9	34	32 - 37
All i-STAT Instruments	24	67.0	0.8	1.1	67	62 - 71	25	34.4	0.6	1.9	34	32 - 37
i-STAT - waived	17	67.2	1.0	1.4	67	63 - 72	17	34.4	0.7	2.0	34	32 - 37
	Specimen IST-13						Specimen IST-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	20	21.6	0.6	2.8	22	20 - 23	20	13.9	0.6	4.2	14	13 - 15
All i-STAT Instruments	20	21.6	0.6	2.8	22	20 - 23	20	13.9	0.6	4.2	14	13 - 15
i-STAT - waived	13	21.4	0.5	2.4	21	20 - 23	13	13.7	0.5	3.5	14	12 - 15
	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	38.9	0.7	1.8	39	36 - 42						
All i-STAT Instruments	20	38.9	0.7	1.8	39	36 - 42						
i-STAT - waived	13	38.7	0.5	1.2	39	36 - 42						

Creatinine (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-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	95	17.97	0.83	4.6	18.1	15.2 - 20.7	94	1.81	0.08	4.4	1.8	1.5 - 2.2
All i-STAT Instruments	95	17.97	0.83	4.6	18.1	15.2 - 20.7	94	1.81	0.08	4.4	1.8	1.5 - 2.2
i-STAT - waived	87	17.97	0.85	4.7	18.0	15.2 - 20.7	86	1.81	0.08	4.5	1.8	1.5 - 2.2
	Specimen IST-13						Specimen IST-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	68	3.15	0.12	3.9	3.2	2.6 - 3.7	69	7.61	0.34	4.4	7.6	6.4 - 8.8
All i-STAT Instruments	68	3.15	0.12	3.9	3.2	2.6 - 3.7	69	7.61	0.34	4.4	7.6	6.4 - 8.8
i-STAT - waived	60	3.15	0.11	3.6	3.2	2.6 - 3.7	61	7.59	0.34	4.5	7.5	6.4 - 8.8
	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	69	1.48	0.06	4.2	1.5	1.1 - 1.8						
All i-STAT Instruments	69	1.48	0.06	4.2	1.5	1.1 - 1.8						
i-STAT - waived	62	1.48	0.06	4.2	1.5	1.1 - 1.8						

Ionized Calcium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-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	67	0.711	0.023	3.3	0.71	0.64 - 0.79	67	1.143	0.019	1.6	1.14	1.08 - 1.20
All i-STAT Instruments	67	0.711	0.023	3.3	0.71	0.64 - 0.79	67	1.143	0.019	1.6	1.14	1.08 - 1.20
i-STAT - waived	61	0.710	0.024	3.4	0.71	0.63 - 0.79	61	1.141	0.019	1.6	1.14	1.08 - 1.20
	Specimen IST-13						Specimen IST-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	60	1.421	0.021	1.5	1.42	1.35 - 1.49	60	1.860	0.025	1.3	1.86	1.78 - 1.94
All i-STAT Instruments	60	1.421	0.021	1.5	1.42	1.35 - 1.49	60	1.860	0.025	1.3	1.86	1.78 - 1.94
i-STAT - waived	55	1.420	0.021	1.5	1.42	1.35 - 1.49	55	1.859	0.025	1.3	1.86	1.78 - 1.94
	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	60	1.114	0.025	2.2	1.12	1.03 - 1.19						
All i-STAT Instruments	60	1.114	0.025	2.2	1.12	1.03 - 1.19						
i-STAT - waived	54	1.116	0.022	2.0	1.12	1.04 - 1.19						

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	350	3.47	0.48	13.7	3.7	3.1 - 3.9	349	1.93	0.28	14.3	2.0	1.7 - 2.2
All Bromocresol Green Reagents	237	3.78	0.13	3.4	3.8	3.3 - 4.2	239	2.10	0.11	5.1	2.1	1.8 - 2.4
All Bromocresol Purple Reagents	107	2.79	0.08	2.7	2.8	2.5 - 3.1	107	1.56	0.13	8.1	1.5	1.4 - 1.8
Abaxis Piccolo												
Abaxis Piccolo - waived	17	2.83	0.05	1.7	2.8	2.5 - 3.2	17	1.74	0.05	2.8	1.7	1.5 - 2.0
Abaxis Piccolo	10	2.83	0.07	2.4	2.8	2.5 - 3.2	10	1.74	0.05	3.0	1.7	1.5 - 2.0
All Chemistry Instruments	27	2.83	0.05	1.9	2.8	2.5 - 3.2	27	1.74	0.05	2.8	1.7	1.5 - 2.0
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	42	3.75	0.10	2.6	3.8	3.3 - 4.2	42	2.17	0.05	2.3	2.2	1.9 - 2.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	21	3.78	0.11	2.9	3.8	3.4 - 4.2	21	2.18	0.05	2.5	2.2	1.9 - 2.4
Beckman - cartridge												
All Chemistry Instruments	10	2.88	0.08	2.7	2.9	2.5 - 3.2	10	1.61	0.03	2.0	1.6	1.4 - 1.8
Beckman AU												
Beckman AU systems	27	3.77	0.09	2.3	3.8	3.3 - 4.2	26	2.03	0.06	3.1	2.0	1.8 - 2.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	3.62	0.09	2.5	3.6	3.2 - 4.0	22	2.13	0.06	2.6	2.1	1.9 - 2.4
Roche Integra												
Roche Integra	35	3.84	0.11	2.8	3.8	3.4 - 4.3	35	2.15	0.07	3.1	2.1	1.9 - 2.4
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	2.76	0.06	2.2	2.8	2.4 - 3.1	57	1.47	0.05	3.5	1.5	1.3 - 1.7
All Chemistry Instruments	58	2.76	0.06	2.2	2.8	2.4 - 3.1	58	1.47	0.05	3.5	1.5	1.3 - 1.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	3.84	0.10	2.5	3.8	3.4 - 4.3	16	2.04	0.07	3.5	2.1	1.8 - 2.3
All Chemistry Instruments	21	3.83	0.11	2.9	3.8	3.4 - 4.3	20	2.05	0.08	3.7	2.1	1.8 - 2.3
VITROS												
VITROS 250,350,500,700,750,950	36	3.80	0.12	3.2	3.8	3.4 - 4.2	36	1.95	0.07	3.8	1.9	1.7 - 2.2
All Chemistry Instruments	42	3.84	0.15	4.0	3.8	3.4 - 4.3	42	1.96	0.08	4.0	2.0	1.7 - 2.2

Albumin (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	337	3.52	0.47	13.3	3.7	3.1 - 3.9	338	3.90	0.52	13.2	4.1	3.5 - 4.3
All Bromocresol Green Reagents	232	3.81	0.12	3.1	3.8	3.4 - 4.2	235	4.21	0.14	3.4	4.2	3.7 - 4.7
All Bromocresol Purple Reagents	93	2.81	0.09	3.1	2.8	2.5 - 3.1	94	3.12	0.09	2.7	3.1	2.8 - 3.5
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	2.9	2.6 - 3.3	6	-	-	-	3.2	2.8 - 3.6
Abaxis Piccolo	9	-	-	-	2.9	2.6 - 3.3	9	-	-	-	3.2	2.8 - 3.6
All Chemistry Instruments	14	2.91	0.07	2.3	2.9	2.6 - 3.3	15	3.21	0.08	2.5	3.2	2.8 - 3.6
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	42	3.78	0.13	3.4	3.8	3.3 - 4.2	42	4.19	0.10	2.3	4.2	3.7 - 4.7
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	21	3.81	0.10	2.7	3.8	3.4 - 4.2	21	4.20	0.09	2.2	4.2	3.7 - 4.7
Beckman - cartridge												
All Chemistry Instruments	10	2.90	0.05	1.6	2.9	2.6 - 3.2	10	3.19	0.07	2.3	3.2	2.8 - 3.6
Beckman AU												
Beckman AU systems	27	3.79	0.09	2.5	3.8	3.4 - 4.2	26	4.21	0.11	2.5	4.2	3.7 - 4.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	3.67	0.10	2.7	3.7	3.3 - 4.1	22	4.02	0.10	2.5	4.0	3.6 - 4.5
Roche Integra												
Roche Integra	35	3.88	0.08	2.0	3.9	3.4 - 4.3	35	4.27	0.11	2.6	4.3	3.8 - 4.7
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	56	2.77	0.06	2.3	2.8	2.4 - 3.1	58	3.09	0.07	2.3	3.1	2.7 - 3.5
All Chemistry Instruments	57	2.77	0.06	2.3	2.8	2.4 - 3.1	59	3.09	0.07	2.3	3.1	2.7 - 3.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	3.85	0.12	3.0	3.9	3.4 - 4.3	15	4.28	0.11	2.7	4.3	3.8 - 4.8
All Chemistry Instruments	21	3.87	0.13	3.4	3.9	3.4 - 4.3	20	4.28	0.12	2.8	4.3	3.8 - 4.8
VITROS												
VITROS 250,350,500,700,750,950	36	3.78	0.12	3.2	3.8	3.4 - 4.2	36	4.23	0.15	3.5	4.2	3.8 - 4.7
All Chemistry Instruments	42	3.81	0.15	3.9	3.8	3.4 - 4.2	42	4.27	0.18	4.3	4.2	3.8 - 4.7

Albumin (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	336	2.74	0.38	13.8	2.9	2.4 - 3.1
All Bromocresol Green Reagents	237	2.97	0.11	3.8	3.0	2.6 - 3.3
All Bromocresol Purple Reagents	95	2.18	0.11	5.0	2.1	1.9 - 2.4
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	2.3	2.0 - 2.6
Abaxis Piccolo	9	-	-	-	2.3	2.0 - 2.6
All Chemistry Instruments	15	2.33	0.05	2.1	2.3	2.0 - 2.6
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	42	2.99	0.08	2.8	3.0	2.6 - 3.3
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	21	3.03	0.09	2.8	3.0	2.7 - 3.4
Beckman - cartridge						
All Chemistry Instruments	10	2.27	0.05	2.1	2.3	2.0 - 2.5
Beckman AU						
Beckman AU systems	27	2.94	0.06	1.9	2.9	2.6 - 3.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	22	2.93	0.08	2.9	2.9	2.6 - 3.3
Roche Integra						
Roche Integra	35	3.05	0.09	2.9	3.0	2.7 - 3.4
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	57	2.11	0.05	2.5	2.1	1.8 - 2.4
All Chemistry Instruments	58	2.11	0.05	2.6	2.1	1.8 - 2.4
Vital Diagnostics						
Vital Diagnostics Envoy 500	15	2.97	0.09	3.0	3.0	2.6 - 3.3
All Chemistry Instruments	19	2.96	0.09	3.0	3.0	2.6 - 3.3
VITROS						
VITROS 250,350,500,700,750,950	36	2.84	0.10	3.4	2.8	2.5 - 3.2
All Chemistry Instruments	42	2.86	0.11	3.8	2.8	2.5 - 3.2

Bilirubin, Direct (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	229	2.00	0.46	23.0	1.9	1.0 - 3.0	229	1.00	0.31	31.4	0.9	0.3 - 1.7
All Alfa Wassermann Reagents	35	2.53	0.14	5.5	2.5	2.2 - 2.9	34	1.36	0.06	4.7	1.4	1.2 - 1.5
All Roche Integra/c111/c501 Reagents	29	1.66	0.10	5.9	1.7	1.4 - 1.9	29	0.82	0.06	7.7	0.8	0.6 - 1.0
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	32	2.52	0.14	5.7	2.5	2.2 - 2.9	32	1.37	0.08	5.6	1.4	1.2 - 1.6
Beckman AU												
Beckman AU systems	24	2.39	0.14	5.9	2.4	2.1 - 2.7	23	1.23	0.08	6.6	1.2	1.0 - 1.4
Carolina Liquid Chemistries												
All Chemistry Instruments	11	1.30	0.17	13.3	1.3	0.9 - 1.7	11	0.72	0.14	19.5	0.7	0.4 - 1.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	2.53	0.14	5.5	2.5	2.2 - 2.9	17	1.29	0.07	5.4	1.3	1.1 - 1.5
Roche Integra												
Roche Integra	24	1.65	0.11	6.4	1.6	1.4 - 1.9	24	0.80	0.04	4.5	0.8	0.7 - 0.9
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	48	1.59	0.15	9.4	1.6	1.2 - 1.9	48	0.83	0.09	10.5	0.8	0.6 - 1.0
All Chemistry Instruments	50	1.59	0.15	9.3	1.6	1.2 - 1.9	50	0.83	0.09	10.3	0.8	0.6 - 1.0
Vital Diagnostics												
All Chemistry Instruments	12	2.47	0.12	5.0	2.4	2.2 - 2.8	12	1.28	0.10	8.0	1.3	1.0 - 1.5
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	19	1.87	0.27	14.5	1.9	1.3 - 2.5	19	0.52	0.19	36.7	0.5	0.1 - 0.9
All Chemistry Instruments	24	1.89	0.27	14.5	1.9	1.3 - 2.5	24	0.53	0.20	37.8	0.5	0.1 - 1.0

Bilirubin, Direct (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	229	1.30	0.36	27.8	1.2	0.5 - 2.1	229	1.05	0.33	31.2	1.0	0.3 - 1.8
All Alfa Wassermann Reagents	35	1.76	0.11	6.1	1.8	1.5 - 2.0	35	1.48	0.09	5.9	1.5	1.3 - 1.7
All Roche Integra/c111/c501 Reagents	29	1.06	0.06	6.0	1.0	0.9 - 1.2	29	0.84	0.06	6.8	0.8	0.7 - 1.0
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	32	1.76	0.11	6.3	1.8	1.5 - 2.0	32	1.48	0.09	5.9	1.5	1.3 - 1.7
Beckman AU												
Beckman AU systems	24	1.55	0.11	7.3	1.6	1.3 - 1.8	24	1.26	0.10	8.1	1.3	1.0 - 1.5
Carolina Liquid Chemistries												
All Chemistry Instruments	11	0.81	0.14	17.0	0.8	0.5 - 1.1	11	0.64	0.09	14.5	0.6	0.4 - 0.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	1.67	0.09	5.5	1.7	1.4 - 1.9	17	1.38	0.07	5.3	1.4	1.2 - 1.6
Roche Integra												
Roche Integra	24	1.05	0.07	6.3	1.0	0.9 - 1.2	24	0.84	0.06	6.9	0.8	0.7 - 1.0
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	48	0.97	0.10	9.9	1.0	0.7 - 1.2	47	0.77	0.06	8.3	0.8	0.6 - 1.0
All Chemistry Instruments	50	0.98	0.10	9.8	1.0	0.7 - 1.2	49	0.78	0.06	8.1	0.8	0.6 - 1.0
Vital Diagnostics												
All Chemistry Instruments	12	1.63	0.12	7.5	1.6	1.3 - 1.9	12	1.33	0.06	4.7	1.3	1.2 - 1.5
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	19	1.09	0.25	22.5	1.1	0.6 - 1.6	19	0.85	0.32	37.2	0.9	0.2 - 1.5
All Chemistry Instruments	24	1.10	0.25	22.6	1.2	0.6 - 1.6	24	0.85	0.33	38.6	0.9	0.1 - 1.6

Bilirubin, Direct (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	229	1.12	0.33	29.5	1.0	0.4 - 1.8
All Alfa Wassermann Reagents	34	1.52	0.09	5.8	1.5	1.3 - 1.8
All Roche Integra/c111/c501 Reagents	29	0.92	0.07	7.3	0.9	0.7 - 1.1
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	31	1.52	0.09	6.0	1.5	1.3 - 1.8
Beckman AU						
Beckman AU systems	24	1.36	0.08	6.1	1.4	1.1 - 1.6
Carolina Liquid Chemistries						
All Chemistry Instruments	11	0.73	0.13	18.5	0.7	0.4 - 1.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	1.44	0.07	4.9	1.4	1.2 - 1.6
Roche Integra						
Roche Integra	24	0.91	0.07	7.2	0.9	0.7 - 1.1
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	48	0.87	0.08	9.2	0.9	0.7 - 1.1
All Chemistry Instruments	50	0.87	0.08	9.0	0.9	0.7 - 1.1
Vital Diagnostics						
All Chemistry Instruments	12	1.43	0.11	8.0	1.4	1.1 - 1.7
VITROS-BuBc and Bc						
VITROS 250,350,500,700,750,950	19	0.75	0.21	27.4	0.8	0.3 - 1.2
All Chemistry Instruments	24	0.76	0.21	27.5	0.8	0.3 - 1.2

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	349	4.13	0.41	10.0	4.1	3.3 - 5.0	348	2.18	0.25	11.5	2.1	1.7 - 2.7
All Alfa Wassermann Reagents	61	4.72	0.22	4.7	4.7	3.7 - 5.7	61	2.58	0.11	4.4	2.6	2.0 - 3.1
All Horiba Pentra Reagents	24	4.15	0.23	5.6	4.1	3.3 - 5.0	24	2.27	0.11	4.9	2.3	1.8 - 2.8
All Roche T. bili Special Reagents	33	3.60	0.18	5.1	3.6	2.8 - 4.4	33	1.89	0.07	3.9	1.9	1.4 - 2.3
All Vital Diagnostics Reagents	23	4.01	0.28	7.1	4.0	3.2 - 4.9	23	2.09	0.13	6.3	2.1	1.6 - 2.6
Abaxis Piccolo												
Abaxis Piccolo - waived	17	3.85	0.16	4.1	3.9	3.0 - 4.7	17	2.11	0.11	5.2	2.1	1.6 - 2.6
Abaxis Piccolo	10	3.92	0.22	5.6	4.0	3.1 - 4.8	10	2.15	0.11	5.0	2.2	1.7 - 2.6
All Chemistry Instruments	27	3.88	0.18	4.7	3.9	3.1 - 4.7	27	2.12	0.11	5.1	2.1	1.6 - 2.6
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	56	4.72	0.23	4.9	4.7	3.7 - 5.7	56	2.57	0.12	4.6	2.6	2.0 - 3.1
Beckman - cartridge												
All Chemistry Instruments	10	4.46	0.18	4.1	4.5	3.5 - 5.4	10	2.37	0.13	5.6	2.4	1.8 - 2.9
Beckman AU												
Beckman AU systems	27	4.43	0.18	4.0	4.4	3.5 - 5.4	26	2.37	0.08	3.5	2.4	1.8 - 2.9
Carolina Liquid Chemistries												
All Chemistry Instruments	12	4.06	0.33	8.0	4.1	3.2 - 4.9	12	2.08	0.19	9.0	2.1	1.6 - 2.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	4.13	0.24	5.8	4.1	3.3 - 5.0	22	2.27	0.11	5.0	2.3	1.8 - 2.8
Roche Integra-T. bili Special												
Roche Integra	26	3.58	0.18	5.1	3.6	2.8 - 4.3	26	1.88	0.07	3.9	1.9	1.4 - 2.3
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	3.94	0.18	4.7	4.0	3.1 - 4.8	57	2.06	0.11	5.3	2.1	1.6 - 2.5
All Chemistry Instruments	58	3.94	0.18	4.6	4.0	3.1 - 4.8	58	2.06	0.11	5.2	2.1	1.6 - 2.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	3.89	0.18	4.7	3.8	3.1 - 4.7	16	2.04	0.08	4.0	2.1	1.6 - 2.5
All Chemistry Instruments	22	4.00	0.28	7.1	4.0	3.2 - 4.8	22	2.10	0.13	6.2	2.1	1.6 - 2.6
VITROS - TBIL												
VITROS 250,350,500,700,750,950	33	4.17	0.23	5.6	4.2	3.3 - 5.1	33	2.01	0.12	6.1	2.0	1.6 - 2.5
All Chemistry Instruments	38	4.18	0.23	5.6	4.2	3.3 - 5.1	38	2.01	0.12	6.0	2.0	1.6 - 2.5

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	336	2.83	0.33	11.6	2.8	2.2 - 3.4	337	2.38	0.29	12.3	2.4	1.9 - 2.9
All Alfa Wassermann Reagents	60	3.30	0.15	4.6	3.3	2.6 - 4.0	61	2.78	0.14	5.2	2.8	2.2 - 3.4
All Horiba Pentra Reagents	24	2.87	0.16	5.5	2.9	2.2 - 3.5	24	2.39	0.12	5.1	2.4	1.9 - 2.9
All Roche T. bili Special Reagents	32	2.40	0.13	5.2	2.4	1.9 - 2.9	33	1.95	0.12	6.2	1.9	1.5 - 2.4
All Vital Diagnostics Reagents	23	2.74	0.26	9.4	2.7	2.1 - 3.3	23	2.26	0.23	10.0	2.2	1.8 - 2.8
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	2.6	2.1 - 3.3	6	-	-	-	2.3	1.8 - 2.8
Abaxis Piccolo	9	-	-	-	2.8	2.1 - 3.3	9	-	-	-	2.4	1.8 - 2.8
All Chemistry Instruments	15	2.70	0.15	5.4	2.7	2.1 - 3.3	15	2.33	0.12	5.0	2.4	1.8 - 2.8
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	55	3.30	0.16	4.8	3.3	2.6 - 4.0	56	2.78	0.15	5.3	2.8	2.2 - 3.4
Beckman - cartridge												
All Chemistry Instruments	10	3.16	0.18	5.8	3.2	2.5 - 3.8	10	2.73	0.13	4.9	2.7	2.1 - 3.3
Beckman AU												
Beckman AU systems	27	3.03	0.12	3.8	3.0	2.4 - 3.7	27	2.52	0.11	4.3	2.5	2.0 - 3.1
Carolina Liquid Chemistries												
All Chemistry Instruments	12	2.83	0.26	9.1	2.9	2.2 - 3.4	12	2.45	0.26	10.7	2.5	1.9 - 3.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	2.86	0.16	5.7	2.8	2.2 - 3.5	22	2.38	0.13	5.3	2.4	1.9 - 2.9
Roche Integra-T. bili Special												
Roche Integra	25	2.37	0.11	4.8	2.4	1.8 - 2.9	26	1.93	0.12	6.0	1.9	1.5 - 2.4
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	2.69	0.14	5.1	2.7	2.1 - 3.3	57	2.25	0.10	4.6	2.3	1.7 - 2.7
All Chemistry Instruments	58	2.69	0.14	5.1	2.7	2.1 - 3.3	58	2.25	0.10	4.6	2.3	1.7 - 2.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	2.64	0.13	5.0	2.7	2.1 - 3.2	16	2.16	0.10	4.7	2.2	1.7 - 2.6
All Chemistry Instruments	22	2.75	0.26	9.6	2.7	2.1 - 3.3	22	2.26	0.23	10.3	2.2	1.8 - 2.8
VITROS - TBIL												
VITROS 250,350,500,700,750,950	33	2.77	0.16	5.9	2.7	2.2 - 3.4	33	2.38	0.15	6.3	2.4	1.9 - 2.9
All Chemistry Instruments	38	2.78	0.16	5.7	2.8	2.2 - 3.4	38	2.38	0.15	6.1	2.4	1.9 - 2.9

Bilirubin, Total (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	337	2.46	0.29	11.8	2.4	1.9 - 3.0
All Alfa Wassermann Reagents	61	2.89	0.13	4.5	2.9	2.3 - 3.5
All Horiba Pentra Reagents	24	2.52	0.11	4.5	2.5	2.0 - 3.1
All Roche T. bili Special Reagents	33	2.07	0.11	5.4	2.1	1.6 - 2.5
All Vital Diagnostics Reagents	23	2.32	0.19	8.0	2.3	1.8 - 2.8
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	2.3	1.8 - 2.9
Abaxis Piccolo	9	-	-	-	2.4	1.8 - 2.9
All Chemistry Instruments	15	2.35	0.15	6.4	2.4	1.8 - 2.9
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	56	2.89	0.13	4.6	2.9	2.3 - 3.5
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	10	2.74	0.13	4.9	2.7	2.1 - 3.3
All Chemistry Instruments						
Beckman AU	27	2.67	0.10	3.9	2.7	2.1 - 3.3
Beckman AU systems						
Carolina Liquid Chemistries	12	2.43	0.20	8.1	2.4	1.9 - 3.0
All Chemistry Instruments						
Horiba ABX Pentra	22	2.51	0.12	4.6	2.5	2.0 - 3.1
Horiba ABX Pentra 400						
Roche Integra-T. bili Special	26	2.07	0.09	4.5	2.1	1.6 - 2.5
Roche Integra						
All Chemistry Instruments	57	2.32	0.11	4.8	2.3	1.8 - 2.8
Siemens (Dade) Healthcare	58	2.32	0.11	4.8	2.3	1.8 - 2.8
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL						
Vital Diagnostics	16	2.25	0.11	4.9	2.3	1.8 - 2.7
Vital Diagnostics Envoy 500	22	2.33	0.18	7.9	2.3	1.8 - 2.8
All Chemistry Instruments						
VITROS - TBIL	33	2.31	0.16	7.0	2.3	1.8 - 2.8
VITROS 250,350,500,700,750,950	38	2.31	0.16	6.9	2.3	1.8 - 2.8

Calcium (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	356	12.42	0.38	3.1	12.4	11.4 - 13.5	353	10.32	0.29	2.8	10.3	9.3 - 11.4
All Arsenazo Methods	187	12.36	0.36	2.9	12.3	11.3 - 13.4	185	10.31	0.29	2.8	10.3	9.3 - 11.4
All CPC Methods	155	12.49	0.43	3.4	12.5	11.4 - 13.5	153	10.33	0.31	3.0	10.4	9.3 - 11.4
Abaxis Piccolo												
Abaxis Piccolo - waived	18	12.53	0.19	1.5	12.6	11.5 - 13.6	17	10.45	0.31	2.9	10.4	9.4 - 11.5
Abaxis Piccolo	10	12.57	0.18	1.4	12.7	11.5 - 13.6	10	10.53	0.23	2.2	10.6	9.5 - 11.6
All Chemistry Instruments	28	12.54	0.18	1.4	12.6	11.5 - 13.6	27	10.48	0.28	2.7	10.5	9.4 - 11.5
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	58	12.08	0.24	2.0	12.1	11.0 - 13.1	58	10.26	0.23	2.2	10.3	9.2 - 11.3
Beckman - electrode												
All Chemistry Instruments	10	12.39	0.19	1.5	12.4	11.3 - 13.4	10	10.32	0.15	1.4	10.3	9.3 - 11.4
Beckman AU												
Beckman AU systems	27	12.46	0.29	2.3	12.5	11.4 - 13.5	27	10.29	0.20	1.9	10.3	9.2 - 11.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	12.95	0.29	2.3	12.9	11.9 - 14.0	21	10.53	0.31	2.9	10.6	9.5 - 11.6
Roche Integra												
Roche Integra	34	12.76	0.30	2.4	12.7	11.7 - 13.8	34	10.54	0.29	2.8	10.5	9.5 - 11.6
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	12.16	0.27	2.2	12.2	11.1 - 13.2	57	10.12	0.23	2.3	10.1	9.1 - 11.2
All Chemistry Instruments	58	12.16	0.27	2.2	12.2	11.1 - 13.2	58	10.11	0.23	2.3	10.1	9.1 - 11.2
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	12.39	0.22	1.8	12.4	11.3 - 13.4	17	10.09	0.25	2.5	10.1	9.0 - 11.1
All Chemistry Instruments	22	12.33	0.29	2.3	12.4	11.3 - 13.4	22	10.11	0.39	3.8	10.2	9.1 - 11.2
VITROS												
VITROS 250,350,500,700,750,950	34	12.59	0.27	2.1	12.6	11.5 - 13.6	34	10.35	0.24	2.4	10.3	9.3 - 11.4
All Chemistry Instruments	43	12.57	0.28	2.2	12.5	11.5 - 13.6	43	10.34	0.23	2.2	10.3	9.3 - 11.4

Calcium (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	342	9.46	0.27	2.8	9.5	8.4 - 10.5	341	7.71	0.29	3.7	7.7	6.7 - 8.8
All Arsenazo Methods	174	9.48	0.25	2.6	9.5	8.4 - 10.5	173	7.74	0.28	3.7	7.8	6.7 - 8.8
All CPC Methods	152	9.43	0.28	3.0	9.5	8.4 - 10.5	153	7.68	0.29	3.8	7.7	6.6 - 8.7
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	9.3	8.4 - 10.5	7	-	-	-	7.6	6.6 - 8.7
Abaxis Piccolo	9	-	-	-	9.5	8.4 - 10.5	9	-	-	-	7.7	6.6 - 8.7
All Chemistry Instruments	16	9.47	0.23	2.4	9.5	8.4 - 10.5	16	7.69	0.22	2.8	7.7	6.6 - 8.7
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	57	9.44	0.21	2.3	9.5	8.4 - 10.5	58	7.86	0.22	2.8	7.9	6.8 - 8.9
Beckman - electrode												
All Chemistry Instruments	10	9.52	0.06	0.7	9.5	8.5 - 10.6	10	7.80	0.12	1.6	7.8	6.8 - 8.8
Beckman AU												
Beckman AU systems	27	9.67	0.14	1.4	9.7	8.6 - 10.7	27	8.04	0.11	1.3	8.1	7.0 - 9.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	9.54	0.28	2.9	9.6	8.5 - 10.6	21	7.61	0.25	3.3	7.7	6.6 - 8.7
Roche Integra												
Roche Integra	33	9.49	0.26	2.8	9.5	8.4 - 10.5	33	7.62	0.30	3.9	7.7	6.6 - 8.7
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	9.22	0.22	2.4	9.3	8.2 - 10.3	58	7.55	0.22	2.9	7.6	6.5 - 8.6
All Chemistry Instruments	58	9.22	0.22	2.4	9.3	8.2 - 10.3	59	7.55	0.22	2.9	7.6	6.5 - 8.6
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	9.45	0.20	2.2	9.5	8.4 - 10.5	16	7.73	0.14	1.9	7.7	6.7 - 8.8
All Chemistry Instruments	22	9.42	0.22	2.4	9.4	8.4 - 10.5	21	7.69	0.20	2.6	7.7	6.6 - 8.7
VITROS												
VITROS 250,350,500,700,750,950	34	9.42	0.24	2.5	9.4	8.4 - 10.5	34	7.44	0.20	2.8	7.4	6.4 - 8.5
All Chemistry Instruments	43	9.42	0.22	2.4	9.4	8.4 - 10.5	43	7.44	0.20	2.7	7.4	6.4 - 8.5

Calcium (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	341	9.90	0.25	2.6	9.9	8.8 - 10.9
All Arsenazo Methods	173	9.92	0.25	2.5	9.9	8.9 - 11.0
All CPC Methods	153	9.89	0.26	2.7	9.9	8.8 - 10.9
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	9.9	8.9 - 11.0
Abaxis Piccolo	9	-	-	-	10.2	8.9 - 11.0
All Chemistry Instruments	16	9.96	0.25	2.5	10.0	8.9 - 11.0
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	59	9.93	0.24	2.5	9.9	8.9 - 11.0
Beckman - electrode						
All Chemistry Instruments	10	9.89	0.06	0.6	9.9	8.8 - 10.9
Beckman AU						
Beckman AU systems	27	9.99	0.16	1.6	10.0	8.9 - 11.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	10.00	0.28	2.8	10.1	9.0 - 11.0
Roche Integra						
Roche Integra	34	10.01	0.28	2.8	10.0	9.0 - 11.1
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	57	9.70	0.19	1.9	9.7	8.6 - 10.7
All Chemistry Instruments	58	9.69	0.19	1.9	9.7	8.6 - 10.7
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	9.78	0.20	2.1	9.8	8.7 - 10.8
All Chemistry Instruments	21	9.80	0.21	2.2	9.7	8.8 - 10.8
VITROS						
VITROS 250,350,500,700,750,950	33	9.93	0.23	2.4	9.9	8.9 - 11.0
All Chemistry Instruments	42	9.92	0.23	2.3	9.9	8.9 - 11.0

Creatinine (mg/dL)

Technical note: The National Kidney Disease Education Program (NKDEP) has launched the Creatinine Standardization Program to address inter-laboratory variation in creatinine assay calibration and provide more accurate estimates of glomerular filtration rate (GFR). Both efforts are part of a larger NKDEP initiative to help health care providers better identify and treat chronic kidney disease in order to prevent or delay kidney failure and improve patient outcomes. The Creatinine Standardization Program encourages in-vitro diagnostics manufacturers to adjust the calibrations of routine serum creatinine methods to be traceable to the internationally accepted reference method—isotope dilution mass spectrometry (IDMS)—and to work with clinical laboratories to coordinate this calibration adjustment with the introduction of a revised GFR estimating equation appropriate for use with IDMS-traceable creatinine methods. In order to provide appropriate PT grading during this transition, MLE has added ovals to the proficiency test result form to allow participating laboratories to indicate which creatinine calibration method is currently in use. Participants will need to select either “IDMS” for IDMS-traceable calibration method, or “OLD” for traditional calibration method. If you have any question about the traceability of the calibration for the creatinine method in use by your laboratory, contact the reagent and/or calibrator manufacturer for assistance. For more information, and recommendations for clinical laboratories, see <http://www.nkdep.nih.gov/labprofessionals/index.htm>

<u>Standardization/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	355	4.43	0.29	6.5	4.5	3.7 - 5.1	352	2.03	0.13	6.2	2.0	1.7 - 2.4
IDMS Standardization	174	4.42	0.28	6.3	4.5	3.7 - 5.1	172	2.00	0.12	6.1	2.0	1.7 - 2.4
Abaxis Piccolo												
Abaxis Piccolo - waived	14	4.74	0.19	4.1	4.7	4.0 - 5.5	14	2.16	0.08	3.5	2.2	1.8 - 2.5
All Chemistry Instruments	17	4.71	0.19	4.0	4.7	4.0 - 5.5	16	2.15	0.08	3.8	2.2	1.8 - 2.5
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	26	4.16	0.22	5.2	4.2	3.5 - 4.8	26	2.01	0.12	6.0	2.0	1.7 - 2.4
Beckman AU												
Beckman AU systems	16	4.48	0.12	2.8	4.5	3.8 - 5.2	16	2.03	0.09	4.2	2.0	1.7 - 2.4
CREA (blnk corrected -NH3)												
VITROS 250,350,500,700,750,950	10	4.60	0.11	2.3	4.6	3.9 - 5.3	10	1.97	0.07	3.4	2.0	1.6 - 2.3
All Chemistry Instruments	10	4.60	0.11	2.3	4.6	3.9 - 5.3	11	1.97	0.06	3.3	2.0	1.6 - 2.3
CRSC (single slide)												
VITROS 250,350,500,700,750,950	21	4.58	0.19	4.1	4.6	3.8 - 5.3	21	1.99	0.10	4.9	2.0	1.6 - 2.3
All Chemistry Instruments	28	4.58	0.18	3.9	4.6	3.8 - 5.3	28	1.99	0.10	4.9	2.0	1.6 - 2.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	4.46	0.19	4.2	4.5	3.7 - 5.2	11	2.10	0.08	3.7	2.1	1.7 - 2.5
All Chemistry Instruments	12	4.48	0.18	4.1	4.5	3.8 - 5.2	12	2.11	0.08	3.8	2.1	1.7 - 2.5
Roche Integra												
Roche Integra	16	4.06	0.09	2.2	4.0	3.4 - 4.7	17	1.89	0.09	4.5	1.9	1.5 - 2.2
Siemens (Dade) Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	4.52	0.09	1.9	4.5	3.8 - 5.2	11	2.04	0.05	2.5	2.0	1.7 - 2.4
Non-IDMS Method	128	4.44	0.29	6.6	4.5	3.7 - 5.2	127	2.05	0.12	6.0	2.1	1.7 - 2.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	18	4.05	0.12	3.0	4.0	3.4 - 4.7	18	1.94	0.08	4.0	1.9	1.6 - 2.3
Roche Integra												
Roche Integra	14	4.22	0.33	7.9	4.1	3.5 - 4.9	14	1.96	0.12	5.9	2.0	1.6 - 2.3
Siemens (Dade) Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	36	4.64	0.11	2.4	4.6	3.9 - 5.4	36	2.16	0.07	3.4	2.2	1.8 - 2.5
All Chemistry Instruments	37	4.64	0.11	2.4	4.6	3.9 - 5.4	37	2.16	0.07	3.3	2.2	1.8 - 2.5
Vital Diagnostics												
All Chemistry Instruments	13	4.57	0.28	6.1	4.5	3.8 - 5.3	13	2.10	0.14	6.4	2.1	1.7 - 2.5

Creatinine (mg/dL)

<u>Standardization/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	344	2.25	0.20	8.7	2.3	1.9 - 2.6	345	1.26	0.17	13.7	1.3	0.9 - 1.6
IDMS Standardization	163	2.18	0.19	8.7	2.2	1.8 - 2.6	166	1.19	0.19	15.6	1.2	0.8 - 1.5
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	26	2.19	0.13	5.8	2.2	1.8 - 2.6	26	1.23	0.07	6.0	1.2	0.9 - 1.6
Beckman AU												
Beckman AU systems	16	2.31	0.08	3.5	2.3	1.9 - 2.7	16	1.31	0.07	5.2	1.3	1.0 - 1.7
CREA (blnk corrected -NH3)												
VITROS 250,350,500,700,750,950	10	1.97	0.09	4.8	2.0	1.6 - 2.3	10	0.95	0.05	5.5	1.0	0.6 - 1.3
All Chemistry Instruments	11	1.97	0.09	4.6	2.0	1.6 - 2.3	11	0.95	0.05	5.5	1.0	0.6 - 1.3
CRSC (single slide)												
VITROS 250,350,500,700,750,950	21	1.97	0.11	5.8	2.0	1.6 - 2.3	21	0.95	0.07	7.2	0.9	0.6 - 1.3
All Chemistry Instruments	28	1.98	0.11	5.4	2.0	1.6 - 2.3	28	0.95	0.07	7.3	1.0	0.6 - 1.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	2.41	0.12	5.1	2.4	2.0 - 2.8	11	1.44	0.07	4.7	1.4	1.1 - 1.8
All Chemistry Instruments	12	2.42	0.12	4.9	2.5	2.0 - 2.8	12	1.44	0.07	4.6	1.5	1.1 - 1.8
Roche Integra												
Roche Integra	17	2.09	0.10	4.9	2.1	1.7 - 2.5	17	1.16	0.07	6.0	1.2	0.8 - 1.5
Siemens (Dade) Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	2.25	0.07	3.0	2.2	1.9 - 2.6	11	1.21	0.10	8.6	1.2	0.9 - 1.6
Non-IDMS Method	128	2.31	0.18	7.6	2.3	1.9 - 2.7	127	1.31	0.13	10.1	1.3	1.0 - 1.7
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	18	2.14	0.08	3.7	2.2	1.8 - 2.5	18	1.22	0.07	6.0	1.2	0.9 - 1.6
Roche Integra												
Roche Integra	14	2.15	0.19	8.9	2.1	1.8 - 2.5	14	1.19	0.11	9.6	1.2	0.8 - 1.5
Siemens (Dade) Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	37	2.37	0.12	5.2	2.4	2.0 - 2.8	36	1.33	0.08	5.9	1.3	1.0 - 1.7
All Chemistry Instruments	36	2.39	0.09	3.7	2.4	2.0 - 2.8	37	1.34	0.08	5.9	1.3	1.0 - 1.7
Vital Diagnostics												
All Chemistry Instruments	13	2.40	0.11	4.5	2.4	2.0 - 2.8	12	1.39	0.07	4.8	1.4	1.0 - 1.7

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

<u>Standardization/Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	342	2.14	0.15	6.8	2.1	1.8 - 2.5
IDMS Standardization	163	2.09	0.14	6.7	2.1	1.7 - 2.5
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	26	2.10	0.10	4.9	2.1	1.7 - 2.5
Beckman AU						
Beckman AU systems	16	2.17	0.09	4.0	2.2	1.8 - 2.5
CREA (blnk corrected -NH3)						
VITROS 250,350,500,700,750,950	10	2.00	0.09	4.7	2.0	1.7 - 2.3
All Chemistry Instruments	11	2.00	0.09	4.5	2.0	1.7 - 2.3
CRSC (single slide)						
VITROS 250,350,500,700,750,950	21	2.00	0.11	5.4	2.0	1.6 - 2.3
All Chemistry Instruments	28	1.99	0.11	5.3	2.0	1.6 - 2.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	2.28	0.09	3.8	2.3	1.9 - 2.7
All Chemistry Instruments	12	2.28	0.09	3.8	2.3	1.9 - 2.7
Roche Integra						
Roche Integra	17	1.99	0.08	3.9	2.0	1.6 - 2.3
Siemens (Dade) Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	2.12	0.08	3.5	2.1	1.8 - 2.5
Non-IDMS Method	127	2.17	0.14	6.4	2.2	1.8 - 2.6
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	18	2.04	0.06	3.0	2.1	1.7 - 2.4
Roche Integra						
Roche Integra	14	2.06	0.16	7.6	2.0	1.7 - 2.4
Siemens (Dade) Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	36	2.24	0.07	3.1	2.2	1.9 - 2.6
All Chemistry Instruments	37	2.24	0.07	3.1	2.2	1.9 - 2.6
Vital Diagnostics						
All Chemistry Instruments	12	2.26	0.12	5.2	2.3	1.9 - 2.6

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	368	192.3	4.9	2.5	192	173 - 212	367	134.7	4.3	3.2	135	121 - 149
All Alfa Wassermann Reagents	63	191.6	4.3	2.2	192	172 - 211	63	136.3	3.3	2.4	136	122 - 150
All Horiba Pentra Reagents	23	193.4	4.0	2.1	194	174 - 213	24	136.0	4.7	3.4	135	122 - 150
All Roche Integra/c111/c501 Reagents	44	191.5	4.9	2.6	192	172 - 211	44	135.4	3.1	2.3	135	121 - 149
All Vital Diagnostics Reagents	25	196.0	6.9	3.5	196	176 - 216	25	137.0	4.2	3.0	137	123 - 151
Abaxis Piccolo												
Abaxis Piccolo - waived	18	192.9	3.8	2.0	192	173 - 213	18	137.0	3.1	2.3	137	123 - 151
Abaxis Piccolo	10	194.0	1.8	0.9	194	174 - 214	10	137.2	1.8	1.3	138	123 - 151
All Chemistry Instruments	28	193.3	3.2	1.7	193	173 - 213	27	137.4	2.2	1.6	137	123 - 152
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	56	191.5	4.3	2.2	192	172 - 211	56	136.3	3.2	2.3	136	122 - 150
Beckman AU												
Beckman AU systems	27	191.1	4.5	2.3	191	172 - 211	26	135.8	3.1	2.3	135	122 - 150
Carolina Liquid Chemistries												
All Chemistry Instruments	11	198.2	16.9	8.5	194	178 - 218	11	139.2	13.3	9.6	134	125 - 154
Cholestech LDX												
Cholestech LDX - waived	10	186.0	7.0	3.8	188	167 - 205	10	125.2	5.3	4.2	125	112 - 138
All Chemistry Instruments	11	186.6	7.0	3.7	188	167 - 206	11	125.7	5.3	4.2	126	113 - 139
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	193.2	3.7	1.9	194	173 - 213	22	136.2	4.9	3.6	136	122 - 150
Roche Integra												
Roche Integra	36	191.5	5.3	2.8	192	172 - 211	36	135.6	3.3	2.4	135	122 - 150
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	55	193.5	3.0	1.6	193	174 - 213	56	134.8	2.8	2.1	135	121 - 149
All Chemistry Instruments	56	193.4	3.1	1.6	193	174 - 213	57	134.8	2.8	2.1	135	121 - 149
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	197.3	5.6	2.9	198	177 - 217	16	137.4	2.8	2.1	138	123 - 152
All Chemistry Instruments	23	197.0	5.9	3.0	198	177 - 217	23	137.7	3.5	2.6	138	123 - 152
VITROS												
VITROS 250,350,500,700,750,950	36	190.1	5.0	2.6	190	171 - 210	36	128.8	3.9	3.0	128	115 - 142
All Chemistry Instruments	47	190.7	4.7	2.5	191	171 - 210	47	129.0	3.8	2.9	128	116 - 142

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	348	110.8	3.2	2.9	111	99 - 122	350	63.4	2.9	4.5	63	57 - 70
All Alfa Wassermann Reagents	62	111.6	2.6	2.3	112	100 - 123	61	64.7	1.6	2.5	65	58 - 72
All Horiba Pentra Reagents	24	109.7	3.9	3.6	110	98 - 121	23	62.0	2.5	4.0	62	55 - 69
All Roche Integra/c111/c501 Reagents	43	109.0	2.4	2.2	109	98 - 120	44	61.0	1.3	2.2	61	54 - 68
All Vital Diagnostics Reagents	24	113.1	3.7	3.3	114	101 - 125	24	65.0	3.0	4.6	65	58 - 72
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	111	101 - 124	7	-	-	-	66	59 - 74
Abaxis Piccolo	9	-	-	-	113	101 - 124	9	-	-	-	66	59 - 74
All Chemistry Instruments	16	112.4	2.1	1.9	112	101 - 124	16	66.4	1.5	2.3	66	59 - 74
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	55	111.5	2.5	2.3	112	100 - 123	54	64.7	1.7	2.6	65	58 - 72
Beckman AU												
Beckman AU systems	27	109.0	2.8	2.5	109	98 - 120	27	60.7	1.4	2.3	61	54 - 67
Carolina Liquid Chemistries												
All Chemistry Instruments	11	114.0	10.9	9.6	110	102 - 126	11	65.3	6.4	9.9	64	58 - 72
Cholestech LDX												
Cholestech LDX - waived	3	-	-	-	105	99 - 122	3	-	-	-	57	57 - 70
All Chemistry Instruments	4	-	-	-	109	97 - 120	4	-	-	-	58	50 - 63
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	109.8	4.1	3.7	110	98 - 121	21	62.0	2.4	3.9	62	55 - 69
Roche Integra												
Roche Integra	35	109.2	2.4	2.2	109	98 - 121	36	60.9	1.4	2.3	61	54 - 68
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	56	112.1	2.5	2.2	112	100 - 124	57	65.0	2.0	3.0	65	58 - 72
All Chemistry Instruments	57	112.1	2.5	2.2	112	100 - 124	58	65.0	2.0	3.0	65	58 - 72
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	113.9	2.7	2.4	114	102 - 126	15	66.1	2.2	3.3	66	59 - 73
All Chemistry Instruments	23	113.3	3.7	3.2	114	102 - 125	22	65.6	2.4	3.7	66	59 - 73
VITROS												
VITROS 250,350,500,700,750,950	36	109.7	3.3	3.1	109	98 - 121	36	63.3	2.5	3.9	63	56 - 70
All Chemistry Instruments	47	109.7	3.2	3.0	110	98 - 121	47	63.5	2.4	3.9	63	57 - 70

Glucose (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	346	123.1	3.7	3.0	123	110 - 136
All Alfa Wassermann Reagents	63	124.4	3.0	2.4	124	111 - 137
All Horiba Pentra Reagents	24	124.4	4.3	3.5	123	111 - 137
All Roche Integra/c111/c501 Reagents	43	122.0	2.8	2.3	122	109 - 135
All Vital Diagnostics Reagents	23	124.9	5.8	4.6	125	112 - 138
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	122	112 - 138
Abaxis Piccolo	9	-	-	-	125	112 - 138
All Chemistry Instruments	16	125.0	2.6	2.0	125	112 - 138
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	56	124.3	3.0	2.4	124	111 - 137
Beckman AU						
Beckman AU systems	27	122.4	2.8	2.3	122	110 - 135
Carolina Liquid Chemistries						
All Chemistry Instruments	11	125.2	10.6	8.5	123	112 - 138
Cholestech LDX						
Cholestech LDX - waived	3	-	-	-	109	110 - 136
All Chemistry Instruments	4	-	-	-	110	101 - 125
Horiba ABX Pentra						
Horiba ABX Pentra 400	22	124.2	4.3	3.5	123	111 - 137
Roche Integra						
Roche Integra	35	122.1	2.8	2.3	122	109 - 135
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	56	123.9	2.3	1.9	124	111 - 137
All Chemistry Instruments	57	123.9	2.3	1.9	124	111 - 137
Vital Diagnostics						
Vital Diagnostics Envoy 500	15	126.2	3.6	2.9	126	113 - 139
All Chemistry Instruments	21	126.1	4.1	3.2	125	113 - 139
VITROS						
VITROS 250,350,500,700,750,950	36	119.7	3.5	2.9	119	107 - 132
All Chemistry Instruments	47	119.8	3.4	2.8	120	107 - 132

Iron (mcg/dL)

Specimen CH-11							Specimen CH-12					
<u>Reagent/Instrument</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	128	212.2	15.2	7.2	206	169 - 255	127	93.9	5.6	5.9	92	75 - 113
All Alfa Wassermann Reagents	11	201.7	4.6	2.3	204	161 - 243	11	91.5	3.2	3.5	92	73 - 110
All Roche Integra/c111/c501 Reagents	15	211.3	3.2	1.5	211	169 - 254	16	96.6	4.4	4.6	95	77 - 116
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	10	202.2	4.6	2.3	204	161 - 243	10	91.9	3.0	3.3	92	73 - 111
Beckman AU												
Beckman AU systems	16	233.1	4.2	1.8	234	186 - 280	15	102.7	3.3	3.2	102	82 - 124
Roche Integra												
Roche Integra	12	210.5	2.7	1.3	211	168 - 253	13	96.2	4.5	4.7	95	76 - 116
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	31	202.0	1.6	0.8	202	161 - 243	31	91.0	1.3	1.4	91	72 - 110
All Chemistry Instruments	32	202.0	1.6	0.8	202	161 - 243	32	90.9	1.3	1.4	91	72 - 110
VITROS												
All Chemistry Instruments	14	237.9	9.5	4.0	236	190 - 286	14	94.6	5.6	5.9	95	75 - 114
Specimen CH-13							Specimen CH-14					
All Method	127	199.8	15.1	7.6	194	159 - 240	126	219.3	16.3	7.4	213	175 - 264
All Alfa Wassermann Reagents	11	190.3	5.1	2.7	192	152 - 229	11	208.6	5.2	2.5	211	166 - 251
All Roche Integra/c111/c501 Reagents	16	198.8	5.4	2.7	200	159 - 239	16	216.3	5.8	2.7	216	173 - 260
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	10	190.9	4.9	2.6	193	152 - 230	10	209.3	5.0	2.4	212	167 - 252
Beckman AU												
Beckman AU systems	16	219.5	4.1	1.9	220	175 - 264	16	242.1	4.5	1.9	242	193 - 291
Roche Integra												
Roche Integra	13	197.9	5.2	2.6	199	158 - 238	13	215.3	5.3	2.5	215	172 - 259
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	29	190.7	3.7	1.9	191	152 - 229	31	210.4	2.0	1.0	211	168 - 253
All Chemistry Instruments	30	190.7	3.6	1.9	191	152 - 229	32	210.3	2.0	1.0	211	168 - 253
VITROS												
All Chemistry Instruments	14	225.9	8.5	3.8	226	180 - 272	14	254.4	10.8	4.2	252	203 - 306

Iron (mcg/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	127	146.5	9.4	6.4	143	117 - 176
All Alfa Wassermann Reagents	11	140.9	3.4	2.4	143	112 - 170
All Roche Integra/c111/c501 Reagents	15	147.1	3.2	2.1	147	117 - 177
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	10	141.2	3.4	2.4	143	112 - 170
Beckman AU						
Beckman AU systems	15	161.8	4.2	2.6	161	129 - 195
Roche Integra						
Roche Integra	12	146.8	3.0	2.0	147	117 - 177
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	31	141.1	1.2	0.8	141	112 - 170
All Chemistry Instruments	32	141.1	1.2	0.8	141	112 - 170
VITROS						
All Chemistry Instruments	14	158.3	6.5	4.1	159	126 - 190

Magnesium (mg/dL)**Specimen CH-11**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	159	1.85	0.12	6.3	1.8	1.3 - 2.4
All Alfa Wassermann Reagents	14	1.76	0.10	5.8	1.7	1.3 - 2.2
All Horiba Pentra Reagents	17	1.81	0.11	5.8	1.8	1.3 - 2.3
All Roche Integra/c111/c501 Reagents	22	1.86	0.06	3.2	1.9	1.3 - 2.4
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	13	1.77	0.09	5.4	1.7	1.3 - 2.3
Beckman AU						
Beckman AU systems	14	1.82	0.08	4.4	1.8	1.3 - 2.3
Carolina Liquid Chemistries						
All Chemistry Instruments	10	2.01	0.39	19.4	2.1	1.5 - 2.6
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	1.81	0.11	6.0	1.8	1.3 - 2.3
Roche Integra						
Roche Integra	17	1.86	0.06	3.3	1.9	1.3 - 2.4
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	29	1.81	0.07	4.0	1.8	1.3 - 2.3
All Chemistry Instruments	30	1.81	0.07	4.0	1.8	1.3 - 2.3
VITROS						
VITROS 250,350,500,700,750,950	16	1.93	0.08	4.1	1.9	1.4 - 2.5
All Chemistry Instruments	24	1.96	0.10	5.2	1.9	1.4 - 2.5

Specimen CH-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
162	3.79	0.26	7.0	3.8	2.8 - 4.8
13	3.62	0.24	6.6	3.5	2.7 - 4.6
18	3.55	0.19	5.2	3.5	2.6 - 4.5
22	3.72	0.11	2.9	3.7	2.7 - 4.7
12	3.64	0.23	6.2	3.6	2.7 - 4.6
14	3.77	0.13	3.4	3.8	2.8 - 4.8
10	3.50	0.39	11.0	3.5	2.6 - 4.4
17	3.55	0.19	5.4	3.5	2.6 - 4.5
17	3.72	0.11	3.0	3.7	2.7 - 4.7
29	3.88	0.15	3.8	3.9	2.9 - 4.9
30	3.87	0.14	3.7	3.9	2.9 - 4.9
16	4.18	0.10	2.5	4.2	3.1 - 5.3
24	4.18	0.11	2.6	4.2	3.1 - 5.3

Magnesium (mg/dL)

Specimen CH-13							Specimen CH-14					
<u>Reagent/Instrument</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	160	3.10	0.18	5.7	3.1	2.3 - 3.9	162	3.53	0.21	6.1	3.5	2.6 - 4.5
All Alfa Wassermann Reagents	14	3.01	0.13	4.2	3.0	2.2 - 3.8	14	3.37	0.11	3.4	3.4	2.5 - 4.3
All Horiba Pentra Reagents	17	2.92	0.12	4.1	2.9	2.1 - 3.7	18	3.32	0.18	5.5	3.3	2.4 - 4.2
All Roche Integra/c111/c501 Reagents	22	3.01	0.08	2.6	3.0	2.2 - 3.8	22	3.43	0.08	2.4	3.4	2.5 - 4.3
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	13	3.02	0.12	3.9	3.0	2.2 - 3.8	13	3.38	0.12	3.5	3.4	2.5 - 4.3
Beckman AU												
Beckman AU systems	14	3.09	0.12	3.9	3.1	2.3 - 3.9	14	3.51	0.13	3.7	3.5	2.6 - 4.4
Carolina Liquid Chemistries												
All Chemistry Instruments	10	3.08	0.32	10.5	3.0	2.3 - 3.9	10	3.46	0.34	9.7	3.4	2.5 - 4.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	2.93	0.12	4.2	2.9	2.1 - 3.7	17	3.32	0.19	5.6	3.3	2.4 - 4.2
Roche Integra												
Roche Integra	17	3.02	0.08	2.7	3.0	2.2 - 3.8	17	3.42	0.09	2.6	3.4	2.5 - 4.3
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	29	3.13	0.14	4.5	3.2	2.3 - 4.0	29	3.66	0.13	3.6	3.7	2.7 - 4.6
All Chemistry Instruments	30	3.13	0.14	4.4	3.2	2.3 - 4.0	30	3.65	0.13	3.6	3.7	2.7 - 4.6
VITROS												
VITROS 250,350,500,700,750,950	16	3.33	0.10	3.0	3.3	2.4 - 4.2	16	3.82	0.10	2.6	3.8	2.8 - 4.8
All Chemistry Instruments	24	3.35	0.12	3.6	3.3	2.5 - 4.2	24	3.82	0.10	2.7	3.8	2.8 - 4.8
Specimen CH-15												
All Method	160	3.44	0.20	5.9	3.4	2.5 - 4.3						
All Alfa Wassermann Reagents	14	3.27	0.18	5.4	3.2	2.4 - 4.1						
All Horiba Pentra Reagents	18	3.27	0.15	4.5	3.3	2.4 - 4.1						
All Roche Integra/c111/c501 Reagents	22	3.37	0.07	2.1	3.4	2.5 - 4.3						
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	13	3.29	0.17	5.0	3.2	2.4 - 4.2						
Beckman AU												
Beckman AU systems	14	3.43	0.11	3.3	3.4	2.5 - 4.3						
Carolina Liquid Chemistries												
All Chemistry Instruments	10	3.31	0.36	10.8	3.3	2.4 - 4.2						
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	3.27	0.15	4.6	3.3	2.4 - 4.1						
Roche Integra												
Roche Integra	17	3.36	0.08	2.3	3.4	2.5 - 4.3						
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	29	3.49	0.11	3.1	3.5	2.6 - 4.4						
All Chemistry Instruments	30	3.49	0.11	3.1	3.5	2.6 - 4.4						
VITROS												
VITROS 250,350,500,700,750,950	16	3.77	0.13	3.3	3.8	2.8 - 4.8						
All Chemistry Instruments	24	3.75	0.13	3.4	3.7	2.8 - 4.7						

Phosphorus (mg/dL)

Specimen CH-11							Specimen CH-12					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	142	2.09	0.29	13.8	2.0	1.7 - 2.4	138	4.44	0.20	4.6	4.4	3.9 - 5.0
All Alfa Wassermann Reagents	22	1.83	0.12	6.8	1.8	1.5 - 2.2	22	4.46	0.24	5.3	4.4	3.9 - 5.0
All Roche Integra/c111/c501 Reagents	20	2.03	0.07	3.6	2.0	1.7 - 2.4	20	4.42	0.08	1.8	4.4	3.9 - 4.9
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	19	1.82	0.12	6.5	1.8	1.5 - 2.2	19	4.46	0.25	5.7	4.4	3.9 - 5.0
Beckman - cartridge												
All Chemistry Instruments	9	-	-	-	2.2	1.9 - 2.6	10	4.66	0.16	3.5	4.6	4.1 - 5.2
Beckman AU												
Beckman AU systems	11	1.90	0.08	4.1	1.9	1.6 - 2.2	11	4.19	0.28	6.7	4.2	3.7 - 4.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	2.47	0.12	4.7	2.5	2.1 - 2.8	12	4.58	0.08	1.6	4.6	4.0 - 5.1
Roche Integra												
Roche Integra	15	2.03	0.08	4.0	2.0	1.7 - 2.4	15	4.41	0.08	1.8	4.4	3.9 - 4.9
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	2.02	0.08	4.0	2.0	1.7 - 2.4	25	4.35	0.08	1.8	4.3	3.8 - 4.9
All Chemistry Instruments	26	2.02	0.09	4.3	2.0	1.7 - 2.4	26	4.35	0.08	1.9	4.4	3.8 - 4.9
VITROS												
VITROS 250,350,500,700,750,950	11	2.49	0.13	5.2	2.5	2.1 - 2.8	11	4.88	1.11	22.8	4.5	4.3 - 5.5
All Chemistry Instruments	16	2.48	0.12	5.0	2.5	2.1 - 2.8	15	4.52	0.17	3.8	4.5	4.0 - 5.1
Specimen CH-13							Specimen CH-14					
All Method	140	3.54	0.23	6.6	3.5	3.1 - 4.0	139	4.04	0.24	5.9	4.0	3.6 - 4.5
All Alfa Wassermann Reagents	22	3.35	0.16	4.8	3.4	2.9 - 3.8	22	3.89	0.19	5.0	3.9	3.4 - 4.4
All Roche Integra/c111/c501 Reagents	20	3.48	0.08	2.2	3.5	3.1 - 3.9	20	3.99	0.10	2.6	4.0	3.5 - 4.5
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	19	3.35	0.17	5.1	3.4	2.9 - 3.8	19	3.89	0.20	5.2	3.9	3.4 - 4.4
Beckman - cartridge												
All Chemistry Instruments	10	3.72	0.11	3.1	3.7	3.3 - 4.2	10	4.23	0.15	3.5	4.2	3.7 - 4.7
Beckman AU												
Beckman AU systems	11	3.35	0.11	3.4	3.4	2.9 - 3.8	11	3.83	0.13	3.5	3.9	3.4 - 4.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	3.88	0.10	2.5	3.9	3.4 - 4.3	12	4.37	0.14	3.3	4.4	3.8 - 4.9
Roche Integra												
Roche Integra	15	3.49	0.08	2.4	3.5	3.1 - 3.9	15	3.99	0.11	2.7	4.0	3.5 - 4.5
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	3.48	0.08	2.3	3.5	3.1 - 3.9	25	4.01	0.08	2.0	4.0	3.5 - 4.5
All Chemistry Instruments	26	3.48	0.08	2.4	3.5	3.1 - 3.9	26	4.01	0.08	2.0	4.0	3.5 - 4.5
VITROS												
VITROS 250,350,500,700,750,950	11	3.76	0.15	4.0	3.8	3.3 - 4.2	11	4.20	0.14	3.4	4.2	3.7 - 4.7
All Chemistry Instruments	16	3.77	0.14	3.7	3.8	3.3 - 4.2	16	4.19	0.13	3.2	4.2	3.7 - 4.7

Phosphorus (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	138	3.98	0.19	4.8	4.0	3.5 - 4.5
All Alfa Wassermann Reagents	21	3.89	0.11	2.8	3.9	3.4 - 4.4
All Roche Integra/c1111/c501 Reagents	20	3.96	0.08	1.9	4.0	3.5 - 4.4
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	18	3.88	0.11	2.8	3.9	3.4 - 4.3
Beckman - cartridge						
All Chemistry Instruments	10	4.16	0.15	3.6	4.1	3.7 - 4.7
Beckman AU						
Beckman AU systems	11	3.83	0.14	3.7	3.9	3.4 - 4.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	4.22	0.13	3.0	4.2	3.7 - 4.7
Roche Integra						
Roche Integra	15	3.95	0.06	1.6	4.0	3.5 - 4.4
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	25	3.92	0.07	1.8	3.9	3.4 - 4.4
All Chemistry Instruments	26	3.92	0.07	1.8	3.9	3.4 - 4.4
VITROS						
VITROS 250,350,500,700,750,950	11	4.15	0.15	3.6	4.1	3.7 - 4.6
All Chemistry Instruments	16	4.13	0.14	3.3	4.1	3.6 - 4.6

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	347	6.77	0.23	3.4	6.8	6.0 - 7.5	342	3.77	0.14	3.7	3.8	3.3 - 4.2
All Alfa Wassermann Reagents	61	6.76	0.16	2.4	6.8	6.0 - 7.5	61	3.78	0.09	2.4	3.8	3.4 - 4.2
All Horiba Pentra Reagents	24	6.72	0.15	2.2	6.8	6.0 - 7.4	22	3.75	0.08	2.1	3.8	3.3 - 4.2
All Roche Integra/c111/c501 Reagents	41	6.66	0.15	2.2	6.7	5.9 - 7.4	42	3.71	0.11	3.0	3.7	3.3 - 4.1
All Vital Diagnostics Reagents	22	6.81	0.23	3.4	6.8	6.1 - 7.5	21	3.75	0.10	2.7	3.7	3.3 - 4.2
Abaxis Piccolo												
Abaxis Piccolo - waived	17	6.96	0.15	2.2	6.9	6.2 - 7.7	17	3.92	0.07	1.7	3.9	3.5 - 4.4
Abaxis Piccolo	10	6.96	0.10	1.4	7.0	6.2 - 7.7	10	3.97	0.11	2.7	3.9	3.5 - 4.4
All Chemistry Instruments	26	6.94	0.10	1.4	6.9	6.2 - 7.7	26	3.93	0.07	1.7	3.9	3.5 - 4.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	56	6.76	0.16	2.3	6.8	6.0 - 7.5	56	3.78	0.09	2.3	3.8	3.4 - 4.2
Beckman - cartridge												
All Chemistry Instruments	10	6.49	0.15	2.3	6.5	5.8 - 7.2	10	3.54	0.08	2.4	3.5	3.1 - 3.9
Beckman AU												
Beckman AU systems	27	6.66	0.22	3.3	6.6	5.9 - 7.4	26	3.67	0.12	3.1	3.7	3.3 - 4.1
Carolina Liquid Chemistries												
All Chemistry Instruments	13	6.50	0.41	6.3	6.3	5.8 - 7.2	13	3.57	0.27	7.4	3.5	3.2 - 4.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	6.71	0.15	2.3	6.8	6.0 - 7.4	20	3.75	0.08	2.2	3.8	3.3 - 4.2
Roche Integra												
Roche Integra	34	6.64	0.15	2.2	6.6	5.9 - 7.4	35	3.69	0.11	2.9	3.7	3.3 - 4.1
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	7.01	0.11	1.6	7.0	6.3 - 7.8	56	3.88	0.08	2.0	3.9	3.4 - 4.3
All Chemistry Instruments	59	7.01	0.11	1.6	7.0	6.3 - 7.8	57	3.87	0.08	2.0	3.9	3.4 - 4.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	6.78	0.18	2.6	6.8	6.1 - 7.5	16	3.75	0.07	1.9	3.8	3.3 - 4.2
All Chemistry Instruments	21	6.79	0.22	3.2	6.8	6.1 - 7.5	21	3.75	0.10	2.7	3.7	3.3 - 4.2
VITROS												
VITROS 250,350,500,700,750,950	35	6.59	0.15	2.3	6.6	5.9 - 7.3	35	3.72	0.11	2.9	3.8	3.3 - 4.1
All Chemistry Instruments	42	6.61	0.15	2.3	6.6	5.9 - 7.3	42	3.72	0.10	2.7	3.8	3.3 - 4.1

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	334	6.89	0.26	3.7	6.9	6.2 - 7.6	335	7.73	0.31	4.0	7.7	6.9 - 8.6
All Alfa Wassermann Reagents	61	6.91	0.17	2.5	6.9	6.2 - 7.7	61	7.78	0.16	2.1	7.8	6.9 - 8.6
All Horiba Pentra Reagents	23	6.89	0.13	1.9	6.9	6.1 - 7.6	23	7.75	0.15	1.9	7.8	6.9 - 8.6
All Roche Integra/c111/c501 Reagents	42	6.82	0.17	2.5	6.8	6.1 - 7.6	42	7.61	0.20	2.6	7.6	6.8 - 8.4
All Vital Diagnostics Reagents	22	6.89	0.17	2.4	6.9	6.2 - 7.6	21	7.74	0.20	2.6	7.7	6.9 - 8.6
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	7.2	6.4 - 7.9	6	-	-	-	8.1	7.2 - 8.9
Abaxis Piccolo	9	-	-	-	7.2	6.4 - 7.9	9	-	-	-	8.1	7.2 - 8.9
All Chemistry Instruments	15	7.18	0.11	1.6	7.2	6.4 - 7.9	15	8.05	0.15	1.8	8.1	7.2 - 8.9
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	56	6.92	0.16	2.3	6.9	6.2 - 7.7	56	7.78	0.16	2.0	7.8	7.0 - 8.6
Beckman - cartridge												
All Chemistry Instruments	10	6.61	0.12	1.8	6.6	5.9 - 7.3	10	7.46	0.16	2.1	7.5	6.7 - 8.3
Beckman AU												
Beckman AU systems	27	6.81	0.20	3.0	6.8	6.1 - 7.5	27	7.69	0.25	3.3	7.7	6.9 - 8.5
Carolina Liquid Chemistries												
All Chemistry Instruments	13	6.64	0.42	6.3	6.4	5.9 - 7.4	13	7.50	0.41	5.4	7.3	6.7 - 8.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	6.89	0.13	1.9	6.9	6.1 - 7.6	21	7.75	0.16	2.0	7.8	6.9 - 8.6
Roche Integra												
Roche Integra	35	6.80	0.17	2.5	6.8	6.1 - 7.5	35	7.58	0.19	2.6	7.6	6.8 - 8.4
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	56	7.18	0.12	1.6	7.2	6.4 - 8.0	56	8.08	0.10	1.2	8.1	7.2 - 8.9
All Chemistry Instruments	58	7.17	0.13	1.8	7.2	6.4 - 7.9	57	8.08	0.10	1.3	8.1	7.2 - 8.9
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	6.89	0.15	2.2	6.9	6.1 - 7.6	15	7.75	0.17	2.2	7.7	6.9 - 8.6
All Chemistry Instruments	21	6.90	0.17	2.4	6.9	6.2 - 7.6	20	7.74	0.20	2.6	7.7	6.9 - 8.6
VITROS												
VITROS 250,350,500,700,750,950	34	6.60	0.16	2.4	6.6	5.9 - 7.3	35	7.29	0.18	2.4	7.3	6.5 - 8.1
All Chemistry Instruments	41	6.61	0.16	2.5	6.6	5.9 - 7.3	42	7.29	0.18	2.5	7.3	6.5 - 8.1

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	331	5.34	0.19	3.5	5.4	4.8 - 5.9
All Alfa Wassermann Reagents	61	5.37	0.13	2.4	5.4	4.8 - 6.0
All Horiba Pentra Reagents	22	5.32	0.10	1.9	5.3	4.7 - 5.9
All Roche Integra/c111/c501 Reagents	41	5.28	0.12	2.3	5.3	4.7 - 5.9
All Vital Diagnostics Reagents	20	5.32	0.10	1.8	5.3	4.7 - 5.9
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	5.5	4.9 - 6.1
Abaxis Piccolo	9	-	-	-	5.6	4.9 - 6.1
All Chemistry Instruments	15	5.54	0.11	1.9	5.5	4.9 - 6.1
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	55	5.37	0.11	2.0	5.4	4.8 - 6.0
Beckman - cartridge						
All Chemistry Instruments	10	5.14	0.16	3.1	5.2	4.6 - 5.7
Beckman AU						
Beckman AU systems	27	5.26	0.16	3.1	5.2	4.7 - 5.8
Carolina Liquid Chemistries						
All Chemistry Instruments	13	5.11	0.34	6.6	5.0	4.5 - 5.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	5.30	0.14	2.6	5.3	4.7 - 5.9
Roche Integra						
Roche Integra	34	5.26	0.12	2.2	5.3	4.7 - 5.8
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	57	5.55	0.08	1.5	5.5	4.9 - 6.2
All Chemistry Instruments	58	5.54	0.09	1.6	5.5	4.9 - 6.1
Vital Diagnostics						
Vital Diagnostics Envoy 500	15	5.33	0.09	1.7	5.3	4.7 - 5.9
All Chemistry Instruments	19	5.32	0.10	1.8	5.3	4.7 - 5.9
VITROS						
VITROS 250,350,500,700,750,950	35	5.19	0.16	3.1	5.2	4.6 - 5.8
All Chemistry Instruments	42	5.19	0.15	3.0	5.2	4.6 - 5.8

Urea Nitrogen (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	354	36.6	2.8	7.6	37	33 - 40	353	19.3	1.4	7.4	19	17 - 22
All Alfa Wassermann Reagents	62	38.2	1.3	3.5	38	34 - 42	61	20.1	0.8	3.9	20	18 - 23
All Horiba Pentra Reagents	24	36.0	1.1	3.0	36	32 - 40	24	18.7	0.8	4.0	19	16 - 21
All Roche Integra/c111/c501 Reagents	41	36.3	1.2	3.2	36	33 - 40	41	18.8	0.7	3.9	19	16 - 21
All Vital Diagnostics Reagents	24	38.3	2.5	6.4	39	34 - 42	25	21.0	1.3	6.1	21	19 - 23
Abaxis Piccolo												
Abaxis Piccolo - waived	18	34.9	0.6	1.8	35	31 - 39	18	18.2	0.5	3.0	18	16 - 21
Abaxis Piccolo	10	35.1	1.1	3.1	36	31 - 39	10	18.2	0.6	3.5	18	16 - 21
All Chemistry Instruments	28	35.0	0.8	2.3	35	31 - 39	28	18.2	0.6	3.1	18	16 - 21
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	35	38.2	1.3	3.4	38	34 - 42	35	20.1	0.7	3.6	20	18 - 23
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	27	38.3	1.4	3.7	38	34 - 42	27	20.2	1.0	5.0	20	18 - 23
Beckman - cartridge												
All Chemistry Instruments	10	38.5	1.2	3.1	39	35 - 42	10	20.1	0.6	2.8	20	18 - 23
Beckman AU												
Beckman AU systems	27	38.1	1.2	3.3	38	34 - 42	26	20.0	0.8	4.1	20	17 - 22
Carolina Liquid Chemistries												
All Chemistry Instruments	11	38.9	1.2	3.1	39	35 - 43	12	21.3	2.0	9.2	21	19 - 24
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	36.0	1.1	3.1	36	32 - 40	22	18.7	0.8	4.2	19	16 - 21
Roche Integra												
Roche Integra	34	36.4	1.2	3.2	37	33 - 40	34	18.9	0.8	4.1	19	16 - 21
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	37.9	1.1	2.8	38	34 - 42	57	19.6	0.7	3.7	20	17 - 22
All Chemistry Instruments	59	38.0	1.0	2.8	38	34 - 42	58	19.6	0.7	3.7	20	17 - 22
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	38.8	1.0	2.4	39	35 - 43	17	21.1	0.7	3.3	21	19 - 24
All Chemistry Instruments	23	38.6	2.1	5.5	39	35 - 43	23	21.1	1.2	5.6	21	19 - 24
VITROS												
VITROS 250,350,500,700,750,950	36	30.8	0.7	2.4	31	27 - 34	35	17.0	0.5	2.7	17	14 - 19
All Chemistry Instruments	46	30.8	0.8	2.6	31	28 - 34	44	16.9	0.5	2.8	17	14 - 19

Urea Nitrogen (mg/dL)

Specimen CH-13							Specimen CH-14					
<u>Reagent/Instrument</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	344	23.0	1.7	7.3	23	20 - 26	340	17.1	1.2	7.1	17	15 - 20
All Alfa Wassermann Reagents	63	24.0	1.0	4.3	24	21 - 27	64	17.7	0.9	4.9	18	15 - 20
All Horiba Pentra Reagents	24	22.5	1.0	4.5	23	20 - 25	24	16.7	0.8	4.5	17	14 - 19
All Roche Integra/c111/c501 Reagents	41	22.3	0.6	2.7	22	20 - 25	41	16.4	0.6	3.6	16	14 - 19
All Vital Diagnostics Reagents	25	24.9	1.3	5.2	25	22 - 28	25	19.2	1.1	5.6	19	17 - 22
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	22	19 - 24	7	-	-	-	16	14 - 19
Abaxis Piccolo	9	-	-	-	22	19 - 24	9	-	-	-	17	14 - 19
All Chemistry Instruments	16	21.9	0.7	3.1	22	19 - 24	16	16.6	0.5	3.0	17	14 - 19
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	36	23.9	0.9	3.8	24	21 - 27	37	17.7	0.9	5.1	18	15 - 20
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	27	24.0	1.2	5.0	24	21 - 27	27	17.6	0.8	4.6	18	15 - 20
Beckman - cartridge												
All Chemistry Instruments	10	24.3	1.1	4.4	24	22 - 27	10	18.2	0.8	4.3	18	16 - 21
Beckman AU												
Beckman AU systems	27	23.7	0.8	3.3	24	21 - 26	27	17.4	0.7	4.0	17	15 - 20
Carolina Liquid Chemistries												
All Chemistry Instruments	12	24.8	2.6	10.3	25	22 - 28	12	18.5	2.0	10.7	19	16 - 21
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	22.5	1.1	4.7	22	20 - 25	22	16.7	0.8	4.7	17	14 - 19
Roche Integra												
Roche Integra	34	22.3	0.6	2.8	22	20 - 25	34	16.4	0.6	3.7	17	14 - 19
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	23.5	0.8	3.6	23	21 - 26	58	17.2	0.7	4.1	17	15 - 20
All Chemistry Instruments	59	23.5	0.8	3.6	23	21 - 26	59	17.2	0.7	4.1	17	15 - 20
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	24.8	0.9	3.6	25	22 - 28	16	19.1	0.5	2.6	19	17 - 22
All Chemistry Instruments	23	24.8	1.1	4.5	25	22 - 28	23	19.2	1.0	5.0	19	17 - 22
VITROS												
VITROS 250,350,500,700,750,950	36	19.9	0.6	2.8	20	17 - 22	36	15.1	0.5	3.6	15	13 - 18
All Chemistry Instruments	45	19.9	0.5	2.7	20	17 - 22	46	15.2	0.7	4.3	15	13 - 18

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	344	21.2	1.6	7.5	21	19 - 24
All Alfa Wassermann Reagents	64	22.1	1.1	5.2	22	20 - 25
All Horiba Pentra Reagents	24	20.8	0.9	4.3	21	18 - 23
All Roche Integra/c111/c501 Reagents	41	20.7	0.6	3.1	21	18 - 23
All Vital Diagnostics Reagents	24	23.3	1.3	5.6	23	21 - 26
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	20	17 - 22
Abaxis Piccolo	9	-	-	-	20	17 - 22
All Chemistry Instruments	16	19.9	0.4	2.2	20	17 - 22
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	37	22.2	1.1	5.1	22	20 - 25
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	27	22.0	1.2	5.3	22	19 - 24
Beckman - cartridge						
All Chemistry Instruments	10	22.1	0.7	3.3	22	20 - 25
Beckman AU						
Beckman AU systems	27	21.9	0.8	3.4	22	19 - 24
Carolina Liquid Chemistries						
All Chemistry Instruments	12	23.3	2.4	10.2	23	21 - 26
Horiba ABX Pentra						
Horiba ABX Pentra 400	22	20.6	0.8	4.1	21	18 - 23
Roche Integra						
Roche Integra	34	20.8	0.6	3.1	21	18 - 23
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	58	21.6	0.8	3.7	22	19 - 24
All Chemistry Instruments	59	21.6	0.8	3.7	22	19 - 24
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	23.3	0.7	3.0	23	21 - 26
All Chemistry Instruments	22	23.4	1.0	4.3	23	21 - 26
VITROS						
VITROS 250,350,500,700,750,950	36	18.6	0.6	3.3	19	16 - 21
All Chemistry Instruments	46	18.5	0.6	3.4	19	16 - 21

Uric Acid (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	225	10.25	0.51	5.0	10.2	8.5 - 12.0	222	7.99	0.41	5.1	7.9	6.6 - 9.4
All Alfa Wassermann Reagents	37	10.86	0.35	3.2	10.9	9.0 - 12.8	37	8.48	0.26	3.1	8.5	7.0 - 10.0
All Roche Integra/c111/c501 Reagents	26	10.17	0.26	2.6	10.2	8.4 - 12.0	25	7.98	0.15	1.9	8.0	6.6 - 9.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	33	10.89	0.34	3.1	10.9	9.0 - 12.8	33	8.48	0.27	3.2	8.5	7.0 - 10.0
Beckman - cartridge												
All Chemistry Instruments	12	9.48	0.19	2.0	9.5	7.8 - 11.1	12	7.72	0.10	1.3	7.8	6.4 - 9.1
Beckman AU												
Beckman AU systems	19	10.76	0.30	2.8	10.7	8.9 - 12.6	18	8.46	0.21	2.5	8.4	7.0 - 9.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	10.00	0.15	1.5	10.0	8.3 - 11.7	17	7.88	0.14	1.8	7.9	6.5 - 9.3
Roche Integra												
Roche Integra	22	10.13	0.26	2.5	10.1	8.4 - 11.9	21	7.96	0.15	1.9	8.0	6.6 - 9.4
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	38	10.04	0.13	1.3	10.0	8.3 - 11.8	39	7.80	0.13	1.6	7.8	6.4 - 9.2
All Chemistry Instruments	39	10.03	0.13	1.3	10.0	8.3 - 11.8	40	7.80	0.13	1.6	7.8	6.4 - 9.2
Vital Diagnostics												
All Chemistry Instruments	11	10.45	0.63	6.0	10.5	8.6 - 12.3	11	7.83	0.92	11.7	8.1	6.4 - 9.2
VITROS												
VITROS 250,350,500,700,750,950	24	10.10	0.22	2.1	10.1	8.3 - 11.9	24	7.56	0.17	2.2	7.6	6.2 - 8.9
All Chemistry Instruments	29	10.14	0.23	2.2	10.1	8.4 - 11.9	29	7.58	0.18	2.3	7.6	6.2 - 8.9

Uric Acid (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	5.87	0.39	6.6	5.8	4.8 - 6.9	217	3.19	0.51	16.1	3.0	2.6 - 3.8
All Alfa Wassermann Reagents	38	6.48	0.21	3.2	6.5	5.3 - 7.6	37	4.27	0.20	4.6	4.3	3.5 - 5.0
All Roche Integra/c111/c501 Reagents	26	5.70	0.17	3.0	5.7	4.7 - 6.7	25	2.87	0.06	2.1	2.9	2.3 - 3.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	34	6.49	0.21	3.2	6.5	5.3 - 7.6	33	4.26	0.20	4.7	4.3	3.5 - 5.0
Beckman - cartridge												
All Chemistry Instruments	12	5.62	0.07	1.3	5.6	4.6 - 6.6	11	3.05	0.05	1.7	3.1	2.5 - 3.6
Beckman AU												
Beckman AU systems	19	6.07	0.18	2.9	6.0	5.0 - 7.2	19	3.12	0.09	2.7	3.1	2.5 - 3.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	5.62	0.12	2.2	5.6	4.6 - 6.6	16	2.83	0.11	3.8	2.8	2.3 - 3.4
Roche Integra												
Roche Integra	22	5.68	0.17	3.0	5.7	4.7 - 6.7	21	2.86	0.06	2.1	2.9	2.3 - 3.4
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	40	5.65	0.17	3.1	5.7	4.6 - 6.7	39	2.98	0.11	3.6	3.0	2.4 - 3.5
All Chemistry Instruments	41	5.65	0.17	3.0	5.7	4.6 - 6.7	40	2.98	0.11	3.7	3.0	2.4 - 3.5
Vital Diagnostics												
All Chemistry Instruments	11	6.05	0.29	4.9	6.1	5.0 - 7.1	11	3.21	0.25	7.7	3.2	2.6 - 3.8
VITROS												
VITROS 250,350,500,700,750,950	24	5.73	0.13	2.3	5.7	4.7 - 6.8	23	2.96	0.06	2.0	3.0	2.4 - 3.5
All Chemistry Instruments	29	5.75	0.14	2.5	5.7	4.7 - 6.8	29	2.98	0.08	2.5	3.0	2.4 - 3.5

Uric Acid (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	218	6.93	0.37	5.3	6.8	5.7 - 8.2
All Alfa Wassermann Reagents	38	7.42	0.27	3.6	7.4	6.1 - 8.7
All Roche Integra/c111/c501 Reagents	25	6.80	0.18	2.6	6.8	5.6 - 8.0
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	34	7.43	0.27	3.7	7.4	6.1 - 8.7
Beckman - cartridge						
All Chemistry Instruments	12	6.64	0.09	1.4	6.7	5.5 - 7.8
Beckman AU						
Beckman AU systems	19	7.27	0.17	2.4	7.2	6.0 - 8.6
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	6.76	0.13	1.9	6.8	5.6 - 8.0
Roche Integra						
Roche Integra	22	6.79	0.18	2.6	6.8	5.6 - 8.0
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	40	6.74	0.15	2.3	6.7	5.5 - 7.9
All Chemistry Instruments	41	6.74	0.15	2.3	6.7	5.5 - 7.9
Vital Diagnostics						
All Chemistry Instruments	11	6.98	0.55	7.9	7.1	5.7 - 8.2
VITROS						
VITROS 250,350,500,700,750,950	24	6.67	0.15	2.2	6.7	5.5 - 7.9
All Chemistry Instruments	29	6.70	0.16	2.4	6.7	5.5 - 7.9

Chloride (mmol/L)

<u>Method/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	342	96.4	1.9	1.9	96	91 - 102	347	101.1	1.7	1.7	101	96 - 107
Abaxis Piccolo												
Abaxis Piccolo - waived	18	97.9	1.7	1.7	98	93 - 103	18	100.7	2.3	2.3	101	95 - 106
Abaxis Piccolo	10	95.8	1.2	1.3	96	91 - 101	10	101.1	1.5	1.5	102	96 - 107
All Chemistry Instruments	28	97.2	1.8	1.9	97	92 - 103	28	100.9	2.0	2.0	101	95 - 106
ISE Diluted												
Beckman AU systems	26	95.9	1.5	1.6	96	91 - 101	26	101.5	1.2	1.2	101	96 - 107
Roche Integra	30	96.0	0.9	1.0	96	91 - 101	31	101.1	1.1	1.0	101	96 - 107
Siemens Dimension QuickLyte - RxL	12	95.0	1.7	1.7	95	90 - 100	12	102.1	1.8	1.8	102	96 - 108
Siemens Dimension QuickLyte - Xpand/EXL	34	95.6	1.2	1.2	96	90 - 101	34	102.6	1.2	1.2	103	97 - 108
Vital Diagnostics Envoy 500	13	99.2	2.5	2.5	99	94 - 105	13	101.2	2.7	2.7	101	96 - 107
All Chemistry Instruments	165	96.1	1.9	2.0	96	91 - 101	167	101.5	1.8	1.8	102	96 - 107
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	60	97.8	1.2	1.2	98	92 - 103	60	100.8	0.9	0.9	101	95 - 106
Horiba ABX Pentra 400	14	97.6	3.6	3.7	97	92 - 103	14	100.8	2.0	2.0	101	95 - 106
All Chemistry Instruments	99	97.6	1.7	1.8	97	92 - 103	102	100.9	1.5	1.4	101	95 - 106
VITROS												
VITROS 250,350,500,700,750,950	35	95.2	1.3	1.3	95	90 - 100	35	100.2	1.5	1.5	100	95 - 106
All Chemistry Instruments	41	95.4	1.4	1.5	95	90 - 101	41	100.4	1.6	1.6	100	95 - 106

Chloride (mmol/L)

<u>Method/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	333	110.5	2.4	2.2	111	104 - 116	335	120.1	3.6	3.0	120	114 - 127
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	109	102 - 114	7	-	-	-	116	109 - 122
Abaxis Piccolo	9	-	-	-	107	102 - 114	9	-	-	-	114	109 - 122
All Chemistry Instruments	16	108.2	1.6	1.5	108	102 - 114	16	115.6	2.5	2.1	115	109 - 122
ISE Diluted												
Beckman AU systems	26	109.3	1.1	1.0	109	103 - 115	26	117.8	1.7	1.4	118	111 - 124
Roche Integra	30	110.6	1.1	1.0	111	105 - 117	30	120.3	1.3	1.1	120	114 - 127
Siemens Dimension QuickLyte - RxL	12	112.3	2.8	2.5	112	106 - 118	12	123.9	3.7	3.0	124	117 - 131
Siemens Dimension QuickLyte - Xpand/EXL	34	112.6	1.8	1.6	113	106 - 119	34	123.6	2.1	1.7	124	117 - 130
Vital Diagnostics Envoy 500	13	113.4	1.9	1.7	114	107 - 120	13	122.8	2.2	1.8	123	116 - 129
All Chemistry Instruments	168	110.9	2.4	2.2	111	105 - 117	168	120.7	3.6	3.0	120	114 - 127
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	61	111.9	1.1	0.9	112	106 - 118	60	122.2	1.1	0.9	122	116 - 129
Horiba ABX Pentra 400	11	109.8	2.5	2.3	111	104 - 116	12	120.5	4.0	3.3	121	114 - 127
All Chemistry Instruments	96	111.3	1.7	1.6	112	105 - 117	98	121.5	2.5	2.1	122	115 - 128
VITROS												
VITROS 250,350,500,700,750,950	35	108.2	1.7	1.5	108	102 - 114	35	116.9	2.1	1.8	117	111 - 123
All Chemistry Instruments	41	108.3	1.7	1.6	108	102 - 114	41	117.0	2.2	1.9	117	111 - 123

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	333	106.0	1.9	1.8	106	100 - 112
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	105	99 - 110
Abaxis Piccolo	9	-	-	-	104	99 - 110
All Chemistry Instruments	16	104.4	1.4	1.3	105	99 - 110
ISE Diluted						
Beckman AU systems	26	105.7	1.5	1.4	105	100 - 112
Roche Integra	30	106.3	1.1	1.1	106	100 - 112
Siemens Dimension QuickLyte - RxL	12	107.2	2.2	2.1	107	101 - 113
Siemens Dimension QuickLyte - Xpand/EXL	34	107.2	1.5	1.4	107	101 - 113
Vital Diagnostics Envoy 500	13	107.0	2.2	2.1	106	101 - 113
All Chemistry Instruments	167	106.2	2.0	1.8	106	100 - 112
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	59	106.9	1.1	1.0	107	101 - 113
Horiba ABX Pentra 400	12	105.4	2.1	2.0	106	100 - 111
All Chemistry Instruments	97	106.5	1.6	1.5	107	101 - 112
VITROS						
VITROS 250,350,500,700,750,950	35	104.6	1.6	1.5	105	99 - 110
All Chemistry Instruments	41	104.7	1.6	1.5	105	99 - 110

CO₂ (mmol/L)

Specimen CH-11							Specimen CH-12					
<u>Method/Instrument</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	341	19.3	2.0	10.4	19	15 - 24	341	24.6	2.0	8.3	25	19 - 30
Enzymatic Reagent												
Abaxis Piccolo - waived	15	20.1	1.4	6.9	20	16 - 25	15	26.3	1.4	5.3	27	21 - 32
Alfa Wassermann ACE/NexCT/Alera	41	19.4	2.3	11.7	20	15 - 24	41	25.0	2.1	8.3	25	19 - 30
Beckman AU systems	29	19.2	2.8	14.5	20	15 - 24	28	25.0	1.8	7.1	25	19 - 30
Horiba ABX Pentra 400	13	19.5	1.3	6.5	19	15 - 24	13	24.1	1.4	5.7	24	19 - 29
Roche Integra	29	18.6	1.9	10.1	19	14 - 23	30	23.6	2.6	11.2	24	18 - 29
Siemens Dimension QuickLyte - Xpand/EXL	10	20.1	2.0	10.1	20	16 - 25	10	25.5	1.6	6.2	25	20 - 31
Siemens Dimension/AR/ES/RxL/Xpand/EXL	36	20.3	1.3	6.4	20	16 - 25	37	26.1	1.5	5.6	26	20 - 32
All Chemistry Instruments	207	19.5	2.0	10.1	20	15 - 24	206	25.1	1.9	7.7	25	20 - 31
ISE Diluted												
Vital Diagnostics Envoy 500	12	19.0	3.0	16.0	18	15 - 23	12	22.3	1.5	6.7	22	17 - 27
All Chemistry Instruments	44	19.2	2.2	11.3	19	15 - 24	45	24.0	2.1	8.9	24	19 - 29
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	16	17.9	2.3	12.9	19	14 - 22	16	24.4	2.2	8.8	25	19 - 30
All Chemistry Instruments	35	18.4	2.6	14.1	19	14 - 23	35	24.0	2.4	10.2	25	19 - 29
VITROS												
VITROS 250,350,500,700,750,950	33	18.9	1.3	7.0	19	15 - 23	33	23.4	1.3	5.4	23	18 - 29
All Chemistry Instruments	39	18.9	1.5	7.8	19	15 - 23	39	23.3	1.4	5.8	23	18 - 28
Specimen CH-13							Specimen CH-14					
All Method	329	28.6	2.4	8.3	29	22 - 35	333	34.0	3.1	9.0	34	27 - 41
Enzymatic Reagent												
Abaxis Piccolo - waived	5	-	-	-	30	23 - 36	5	-	-	-	34	27 - 42
Alfa Wassermann ACE/NexCT/Alera	41	29.2	2.7	9.2	29	23 - 36	41	35.2	2.7	7.6	35	28 - 43
Beckman AU systems	28	29.4	1.6	5.3	30	23 - 36	28	35.2	1.6	4.7	35	28 - 43
Horiba ABX Pentra 400	13	28.6	1.5	5.2	29	22 - 35	13	33.9	1.7	4.9	34	27 - 41
Roche Integra	30	27.1	2.8	10.2	27	21 - 33	30	32.7	3.4	10.2	33	26 - 40
Siemens Dimension QuickLyte - Xpand/EXL	10	29.9	1.9	6.2	30	23 - 36	10	35.7	2.8	7.8	36	28 - 43
Siemens Dimension/AR/ES/RxL/Xpand/EXL	37	30.4	1.5	5.0	30	24 - 37	37	36.6	1.6	4.4	37	29 - 44
All Chemistry Instruments	193	29.2	2.1	7.2	29	23 - 36	194	35.0	2.4	6.8	35	27 - 42
ISE Diluted												
Vital Diagnostics Envoy 500	12	26.3	1.8	6.9	26	21 - 32	12	30.5	2.6	8.4	31	24 - 37
All Chemistry Instruments	45	28.4	2.5	8.7	28	22 - 35	45	33.3	3.7	11.2	33	26 - 40
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	16	27.8	2.7	9.6	27	22 - 34	16	34.5	3.5	10.2	36	27 - 42
All Chemistry Instruments	35	27.7	2.7	9.7	28	22 - 34	35	33.5	3.7	11.0	35	26 - 41
VITROS												
VITROS 250,350,500,700,750,950	33	26.8	1.6	5.8	27	21 - 33	33	31.7	1.7	5.5	32	25 - 39
All Chemistry Instruments	38	27.0	1.5	5.6	27	21 - 33	38	32.0	1.9	5.8	32	25 - 39

CO₂ (mmol/L)**Specimen CH-15**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	329	26.3	2.5	9.4	27	21 - 32
Enzymatic Reagent						
Abaxis Piccolo - waived	5	-	-	-	28	21 - 33
Alfa Wassermann ACE/NexCT/Alera	40	27.0	2.4	8.7	27	21 - 33
Beckman AU systems	29	26.4	2.4	9.0	27	21 - 32
Horiba ABX Pentra 400	13	26.5	1.5	5.5	26	21 - 32
Roche Integra	30	25.1	3.0	12.0	25	20 - 31
Siemens Dimension QuickLyte - Xpand/EXL	10	27.8	2.3	8.1	28	22 - 34
Siemens Dimension/AR/ES/RxL/Xpand/EXL	37	28.1	1.6	5.8	28	22 - 34
All Chemistry Instruments	196	26.9	2.4	8.8	27	21 - 33
ISE Diluted						
Vital Diagnostics Envoy 500	12	23.3	1.6	6.9	23	18 - 28
All Chemistry Instruments	44	26.0	2.6	9.9	27	20 - 32
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	16	26.1	3.0	11.4	27	20 - 32
All Chemistry Instruments	35	25.5	3.3	13.1	27	20 - 31
VITROS						
VITROS 250,350,500,700,750,950	33	24.5	1.7	6.8	24	19 - 30
All Chemistry Instruments	39	24.5	1.7	6.8	24	19 - 30

Potassium (mmol/L)

<u>Method/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	354	3.74	0.13	3.4	3.7	3.2 - 4.3	348	3.93	0.09	2.3	3.9	3.4 - 4.5
Abaxis Piccolo												
Abaxis Piccolo - waived	18	3.68	0.21	5.7	3.7	3.1 - 4.2	18	4.12	0.23	5.7	4.2	3.6 - 4.7
Abaxis Piccolo	10	3.58	0.19	5.4	3.6	3.0 - 4.1	10	3.99	0.34	8.5	4.1	3.4 - 4.5
All Chemistry Instruments	28	3.64	0.21	5.7	3.7	3.1 - 4.2	27	4.11	0.22	5.4	4.2	3.6 - 4.7
ISE Diluted												
Beckman AU systems	24	3.67	0.07	1.9	3.7	3.1 - 4.2	26	3.94	0.08	2.0	3.9	3.4 - 4.5
Roche Integra	31	3.74	0.06	1.6	3.7	3.2 - 4.3	31	3.97	0.06	1.5	4.0	3.4 - 4.5
Siemens Dimension QuickLyte - RxL	12	3.68	0.06	1.7	3.7	3.1 - 4.2	12	3.93	0.05	1.2	3.9	3.4 - 4.5
Siemens Dimension QuickLyte - Xpand/EXL	34	3.69	0.04	1.0	3.7	3.1 - 4.2	35	3.94	0.06	1.5	3.9	3.4 - 4.5
Vital Diagnostics Envoy 500	11	3.57	0.09	2.5	3.6	3.0 - 4.1	11	3.83	0.09	2.4	3.8	3.3 - 4.4
All Chemistry Instruments	161	3.68	0.08	2.2	3.7	3.1 - 4.2	164	3.92	0.08	2.0	3.9	3.4 - 4.5
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	59	3.86	0.07	1.8	3.9	3.3 - 4.4	60	3.94	0.06	1.6	3.9	3.4 - 4.5
Horiba ABX Pentra 400	14	3.79	0.05	1.4	3.8	3.2 - 4.3	14	3.89	0.05	1.4	3.9	3.3 - 4.4
All Chemistry Instruments	107	3.80	0.12	3.2	3.8	3.2 - 4.3	108	3.92	0.08	2.1	3.9	3.4 - 4.5
VITROS												
VITROS 250,350,500,700,750,950	36	3.85	0.07	1.7	3.8	3.3 - 4.4	36	3.96	0.06	1.5	4.0	3.4 - 4.5
All Chemistry Instruments	46	3.84	0.08	2.0	3.8	3.3 - 4.4	46	3.97	0.07	1.7	4.0	3.4 - 4.5

Potassium (mmol/L)

<u>Method/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	341	5.17	0.13	2.5	5.2	4.6 - 5.7	341	6.21	0.17	2.8	6.2	5.7 - 6.8
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	5.2	4.7 - 5.8	7	-	-	-	6.3	5.7 - 6.8
Abaxis Piccolo	9	-	-	-	5.3	4.7 - 5.8	9	-	-	-	6.3	5.7 - 6.8
All Chemistry Instruments	16	5.24	0.20	3.8	5.3	4.7 - 5.8	16	6.26	0.29	4.7	6.3	5.7 - 6.8
ISE Diluted												
Beckman AU systems	26	5.10	0.10	2.0	5.1	4.5 - 5.6	26	6.07	0.13	2.1	6.1	5.5 - 6.6
Roche Integra	30	5.16	0.05	1.0	5.2	4.6 - 5.7	30	6.16	0.06	1.0	6.2	5.6 - 6.7
Siemens Dimension QuickLyte - RxL	12	5.08	0.08	1.5	5.1	4.5 - 5.6	12	6.11	0.09	1.5	6.1	5.6 - 6.7
Siemens Dimension QuickLyte - Xpand/EXL	35	5.15	0.06	1.2	5.2	4.6 - 5.7	35	6.18	0.07	1.1	6.2	5.6 - 6.7
Vital Diagnostics Envoy 500	11	4.94	0.08	1.6	4.9	4.4 - 5.5	11	5.95	0.09	1.6	5.9	5.4 - 6.5
All Chemistry Instruments	160	5.11	0.09	1.8	5.1	4.6 - 5.7	161	6.13	0.11	1.8	6.1	5.6 - 6.7
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	59	5.29	0.04	0.8	5.3	4.7 - 5.8	60	6.44	0.07	1.0	6.4	5.9 - 7.0
Horiba ABX Pentra 400	14	5.13	0.06	1.2	5.1	4.6 - 5.7	14	6.12	0.11	1.8	6.1	5.6 - 6.7
All Chemistry Instruments	104	5.23	0.12	2.3	5.3	4.7 - 5.8	106	6.31	0.18	2.9	6.4	5.8 - 6.9
VITROS												
VITROS 250,350,500,700,750,950	36	5.25	0.08	1.6	5.3	4.7 - 5.8	36	6.31	0.10	1.7	6.3	5.8 - 6.9
All Chemistry Instruments	46	5.25	0.08	1.5	5.3	4.7 - 5.8	45	6.31	0.10	1.7	6.3	5.8 - 6.9

Potassium (mmol/L)

Specimen CH-15

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	340	4.56	0.12	2.5	4.6	4.0 - 5.1
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	4.6	4.1 - 5.2
Abaxis Piccolo	9	-	-	-	4.7	4.1 - 5.2
All Chemistry Instruments	16	4.68	0.22	4.7	4.7	4.1 - 5.2
ISE Diluted						
Beckman AU systems	25	4.56	0.08	1.8	4.5	4.0 - 5.1
Roche Integra	31	4.56	0.06	1.4	4.6	4.0 - 5.1
Siemens Dimension QuickLyte - RxL	12	4.51	0.07	1.5	4.5	4.0 - 5.1
Siemens Dimension QuickLyte - Xpand/EXL	35	4.54	0.07	1.4	4.6	4.0 - 5.1
Vital Diagnostics Envoy 500	11	4.36	0.10	2.4	4.3	3.8 - 4.9
All Chemistry Instruments	160	4.53	0.09	2.0	4.5	4.0 - 5.1
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	59	4.67	0.07	1.4	4.7	4.1 - 5.2
Horiba ABX Pentra 400	14	4.51	0.07	1.6	4.5	4.0 - 5.1
All Chemistry Instruments	106	4.60	0.12	2.5	4.6	4.0 - 5.1
VITROS						
VITROS 250,350,500,700,750,950	36	4.61	0.07	1.6	4.6	4.1 - 5.2
All Chemistry Instruments	46	4.61	0.07	1.6	4.6	4.1 - 5.2

Sodium (mmol/L)

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

Specimen CH-11							Specimen CH-12					
<u>Method/Instrument</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	355	128.7	2.9	2.2	128	124 - 133	352	134.6	2.2	1.6	134	130 - 139
Abaxis Piccolo												
Abaxis Piccolo - waived	18	131.7	1.7	1.3	132	127 - 136	18	136.1	2.4	1.8	136	132 - 141
Abaxis Piccolo	10	131.6	1.9	1.4	131	127 - 136	10	135.8	1.3	1.0	136	131 - 140
All Chemistry Instruments	28	131.7	1.8	1.3	132	127 - 136	28	136.0	2.1	1.5	136	131 - 140
ISE Diluted												
Beckman AU systems	23	125.6	1.2	1.0	126	121 - 130	23	133.9	1.3	1.0	134	129 - 138
Roche Integra	31	126.5	1.1	0.8	127	122 - 131	31	133.6	1.3	0.9	134	129 - 138
Siemens Dimension QuickLyte - RxL	12	127.4	1.3	1.0	127	123 - 132	12	135.2	1.3	1.0	135	131 - 140
Siemens Dimension QuickLyte - Xpand/EXL	33	128.0	1.2	1.0	128	123 - 132	34	136.1	1.2	0.9	136	132 - 141
Vital Diagnostics Envoy 500	11	126.1	2.8	2.2	126	122 - 131	11	134.4	2.2	1.7	135	130 - 139
All Chemistry Instruments	158	126.9	1.8	1.4	127	122 - 131	160	134.6	1.6	1.2	135	130 - 139
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	60	129.3	1.4	1.1	129	125 - 134	59	132.5	0.9	0.7	133	128 - 137
Horiba ABX Pentra 400	14	130.3	1.0	0.8	130	126 - 135	14	133.3	0.8	0.6	133	129 - 138
All Chemistry Instruments	112	129.0	2.2	1.7	129	124 - 133	112	133.3	1.7	1.3	133	129 - 138
VITROS												
VITROS 250,350,500,700,750,950	36	132.6	2.1	1.6	133	128 - 137	36	137.2	2.6	1.9	138	133 - 142
All Chemistry Instruments	42	132.6	2.2	1.7	133	128 - 137	42	137.2	2.7	1.9	138	133 - 142

Sodium (mmol/L)

Specimen CH-13							Specimen CH-14					
<u>Method/Instrument</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	340	144.9	3.1	2.1	144	140 - 149	343	155.9	4.1	2.6	155	151 - 160
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	150	145 - 154	7	-	-	-	162	158 - 167
Abaxis Piccolo	9	-	-	-	149	145 - 154	9	-	-	-	161	158 - 167
All Chemistry Instruments	16	149.3	1.7	1.2	149	145 - 154	16	162.1	3.3	2.0	162	158 - 167
ISE Diluted												
Beckman AU systems	24	142.5	1.8	1.2	142	138 - 147	24	151.1	2.8	1.8	151	147 - 156
Roche Integra	31	142.4	1.2	0.8	142	138 - 147	31	152.5	1.4	0.9	152	148 - 157
Siemens Dimension QuickLyte - RxL	11	142.2	1.7	1.2	143	138 - 147	12	152.2	2.3	1.5	153	148 - 157
Siemens Dimension QuickLyte - Xpand/EXL	34	143.8	1.1	0.8	144	139 - 148	34	153.7	1.2	0.8	154	149 - 158
Vital Diagnostics Envoy 500	11	143.0	1.5	1.1	143	139 - 147	11	154.0	2.2	1.4	153	150 - 158
All Chemistry Instruments	158	143.1	1.7	1.2	143	139 - 148	156	153.3	2.0	1.3	153	149 - 158
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	59	145.6	0.9	0.6	145	141 - 150	60	158.4	1.0	0.6	158	154 - 163
Horiba ABX Pentra 400	14	145.9	1.4	0.9	146	141 - 150	14	157.2	1.7	1.1	157	153 - 162
All Chemistry Instruments	109	145.1	1.7	1.2	145	141 - 150	112	157.0	2.7	1.7	158	153 - 162
VITROS												
VITROS 250,350,500,700,750,950	36	150.1	2.4	1.6	150	146 - 155	36	162.0	2.7	1.6	162	158 - 166
All Chemistry Instruments	42	150.1	2.5	1.7	150	146 - 155	42	162.1	2.8	1.7	162	158 - 167

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	337	139.9	2.4	1.7	140	135 - 144
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	143	139 - 147
Abaxis Piccolo	9	-	-	-	142	139 - 147
All Chemistry Instruments	16	143.0	1.5	1.0	143	139 - 147
ISE Diluted						
Beckman AU systems	23	138.3	1.3	1.0	138	134 - 143
Roche Integra	31	138.2	1.0	0.7	138	134 - 143
Siemens Dimension QuickLyte - RxL	12	138.4	2.0	1.5	138	134 - 143
Siemens Dimension QuickLyte - Xpand/EXL	34	139.8	1.3	0.9	140	135 - 144
Vital Diagnostics Envoy 500	11	138.5	2.7	1.9	139	134 - 143
All Chemistry Instruments	156	138.9	1.6	1.1	139	134 - 143
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	59	139.7	1.0	0.7	140	135 - 144
Horiba ABX Pentra 400	14	139.9	1.2	0.9	140	135 - 144
All Chemistry Instruments	109	139.5	1.4	1.0	139	135 - 144
VITROS						
VITROS 250,350,500,700,750,950	36	143.9	2.4	1.7	144	139 - 148
All Chemistry Instruments	42	143.9	2.4	1.7	144	139 - 148

TIBC – Calculated (µg/dL)

<u>Method/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	29	279.3	61.9	22.2	294	155 - 404	28	152.3	34.1	22.4	164	84 - 221
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	29	279.3	61.9	22.2	294	155 - 404	28	152.3	34.1	22.4	164	84 - 221
	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	29	282.0	61.6	21.9	302	158 - 406	29	315.0	71.9	22.8	336	171 - 459
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	29	282.0	61.6	21.9	302	158 - 406	29	315.0	71.9	22.8	336	171 - 459
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	210.6	46.7	22.2	228	117 - 305						
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	28	210.6	46.7	22.2	228	117 - 305						

TIBC – Direct (µg/dL)

<u>Method/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	47	257.3	47.7	18.6	240	161 - 353	48	148.3	38.9	26.2	134	70 - 227
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	27	234.3	14.7	6.3	235	187 - 282	27	119.9	15.2	12.7	120	89 - 151
	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	48	267.8	59.7	22.3	242	148 - 388	46	291.1	57.8	19.8	274	175 - 407
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	27	239.9	14.5	6.1	238	191 - 288	27	272.9	10.7	3.9	271	218 - 328
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	207.2	45.5	22.0	190	116 - 299						
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	27	179.1	14.3	8.0	180	143 - 215						

UIBC – Direct (µg/dL)

Specimen CH-11							Specimen CH-12					
<u>Method/Instrument</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	36	87.1	11.4	13.1	89	64 - 110	36	123.7	11.3	9.1	126	98 - 149
All Roche Integra/c 501 reagents	15	85.8	10.2	11.9	85	65 - 107	14	122.6	9.5	7.7	125	98 - 148
Beckman AU												
Beckman AU systems	11	94.6	5.0	5.2	94	75 - 114	11	130.6	6.3	4.9	132	104 - 157
Roche Integra												
Roche Integra	13	84.9	10.7	12.6	85	63 - 107	12	124.2	9.2	7.4	127	99 - 150
Specimen CH-13							Specimen CH-14					
All Method	36	103.4	11.0	10.7	105	81 - 126	36	118.6	14.5	12.2	122	89 - 148
All Roche Integra/c 501 reagents	15	103.6	10.1	9.8	104	82 - 125	15	118.5	13.1	11.0	117	92 - 145
Beckman AU												
Beckman AU systems	11	110.1	5.5	5.0	109	88 - 133	11	127.5	5.7	4.5	126	102 - 154
Roche Integra												
Roche Integra	13	103.1	10.8	10.5	102	81 - 125	13	118.2	13.7	11.6	117	90 - 146
Specimen CH-15												
All Method	36	85.6	10.2	11.9	86	65 - 107						
All Roche Integra/c 501 reagents	15	84.1	9.0	10.6	86	66 - 103						
Beckman AU												
Beckman AU systems	11	90.4	6.4	7.1	90	72 - 109						
Roche Integra												
Roche Integra	13	83.8	9.6	11.5	83	64 - 104						

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	351	213.8	18.7	8.8	217	171 - 257	352	86.1	10.3	12.0	85	68 - 104
All Horiba Pentra Reagents	24	237.5	8.2	3.4	236	190 - 286	24	93.2	4.0	4.3	92	74 - 112
All Roche Integra/c1111/c501 Reagents	40	215.4	4.9	2.3	215	172 - 259	40	83.7	2.1	2.5	84	66 - 101
All Vital Diagnostics Reagents	22	226.6	11.3	5.0	230	181 - 272	23	88.2	5.3	6.0	90	70 - 106
Abaxis Piccolo												
Abaxis Piccolo - waived	17	195.6	3.9	2.0	195	156 - 235	17	80.1	3.1	3.9	79	64 - 97
Abaxis Piccolo	10	193.2	4.4	2.3	194	154 - 232	10	79.4	4.1	5.2	80	63 - 96
All Chemistry Instruments	27	194.7	4.2	2.1	194	155 - 234	27	79.8	3.5	4.4	80	63 - 96
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	31	190.5	4.7	2.5	191	152 - 229	31	73.1	2.2	3.0	74	58 - 88
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	31	190.2	5.4	2.8	189	152 - 229	31	73.0	2.6	3.6	73	58 - 88
Beckman - cartridge												
All Chemistry Instruments	12	212.0	9.7	4.6	215	169 - 255	12	83.9	3.7	4.4	86	67 - 101
Beckman AU												
Beckman AU systems	27	194.0	4.2	2.1	194	155 - 233	26	75.9	2.5	3.2	75	60 - 92
Carolina Liquid Chemistries												
All Chemistry Instruments	11	205.7	12.2	5.9	211	164 - 247	11	82.2	4.8	5.8	83	65 - 99
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	235.6	5.6	2.4	236	188 - 283	22	93.0	3.9	4.2	92	74 - 112
Roche Integra												
Roche Integra	34	215.6	4.9	2.3	215	172 - 259	34	83.6	2.1	2.6	84	66 - 101
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	231.4	5.2	2.2	232	185 - 278	59	94.6	4.1	4.4	93	75 - 114
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	232.1	5.3	2.3	232	185 - 279	16	90.8	2.4	2.7	91	72 - 109
All Chemistry Instruments	22	226.6	11.3	5.0	230	181 - 272	22	88.9	4.2	4.8	90	71 - 107
VITROS												
VITROS 250,350,500,700,750,950	36	227.2	5.5	2.4	227	181 - 273	36	102.4	4.4	4.3	103	81 - 123
All Chemistry Instruments	42	226.9	5.2	2.3	226	181 - 273	42	101.7	4.5	4.4	102	81 - 123

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</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	339	118.5	11.8	10.0	120	94 - 143	339	80.0	9.3	11.6	80	64 - 97
All Horiba Pentra Reagents	24	130.9	5.0	3.8	130	104 - 158	24	87.5	3.2	3.7	87	70 - 106
All Roche Integra/c111/c501 Reagents	40	117.2	2.8	2.4	117	93 - 141	40	78.0	2.0	2.5	78	62 - 94
All Vital Diagnostics Reagents	23	125.2	6.7	5.4	126	100 - 151	22	84.4	4.2	5.0	86	67 - 102
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	110	87 - 131	6	-	-	-	76	60 - 91
Abaxis Piccolo	9	-	-	-	110	87 - 131	9	-	-	-	75	60 - 91
All Chemistry Instruments	15	108.9	5.2	4.8	110	87 - 131	15	75.2	3.6	4.8	75	60 - 91
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	31	102.6	2.8	2.7	103	82 - 124	31	66.7	2.1	3.1	67	53 - 81
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	31	102.2	3.4	3.3	102	81 - 123	31	66.8	2.6	3.9	67	53 - 81
Beckman - cartridge												
All Chemistry Instruments	12	117.4	5.9	5.0	119	93 - 141	12	80.6	4.1	5.1	82	64 - 97
Beckman AU												
Beckman AU systems	27	107.0	3.5	3.3	106	85 - 129	27	71.9	2.1	2.9	72	57 - 87
Carolina Liquid Chemistries												
All Chemistry Instruments	11	115.1	6.6	5.7	118	92 - 139	11	77.5	4.4	5.6	79	62 - 94
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	130.5	4.8	3.7	129	104 - 157	22	87.4	3.2	3.7	87	69 - 105
Roche Integra												
Roche Integra	34	117.2	2.8	2.4	117	93 - 141	34	77.9	2.0	2.6	78	62 - 94
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	131.7	3.9	3.0	131	105 - 159	59	91.3	4.0	4.3	91	73 - 110
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	128.4	4.0	3.1	129	102 - 155	16	86.2	2.5	2.9	87	68 - 104
All Chemistry Instruments	22	126.0	5.4	4.3	127	100 - 152	22	84.4	4.2	5.0	86	67 - 102
VITROS												
VITROS 250,350,500,700,750,950	36	126.5	4.3	3.4	127	101 - 152	36	86.6	4.2	4.8	87	69 - 104
All Chemistry Instruments	42	126.3	4.5	3.6	126	101 - 152	42	86.2	4.3	5.0	86	68 - 104

ALT (SGPT) (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	339	102.1	11.3	11.0	102	81 - 123
All Horiba Pentra Reagents	24	112.1	3.8	3.4	112	89 - 135
All Roche Integra/c111/c501 Reagents	40	100.5	2.3	2.3	100	80 - 121
All Vital Diagnostics Reagents	23	106.4	7.4	7.0	109	85 - 128
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	94	75 - 114
Abaxis Piccolo	9	-	-	-	94	75 - 114
All Chemistry Instruments	15	94.3	3.3	3.5	94	75 - 114
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	31	87.5	2.9	3.3	87	70 - 106
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	31	87.4	3.0	3.4	87	69 - 105
Beckman - cartridge						
All Chemistry Instruments	12	100.8	4.2	4.2	102	80 - 121
Beckman AU						
Beckman AU systems	27	90.9	2.6	2.9	90	72 - 110
Carolina Liquid Chemistries						
All Chemistry Instruments	11	96.9	7.4	7.6	101	77 - 117
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	111.2	2.8	2.5	112	88 - 134
Roche Integra						
Roche Integra	34	100.5	2.4	2.3	100	80 - 121
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	57	113.3	3.7	3.2	113	90 - 136
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	109.6	3.0	2.7	110	87 - 132
All Chemistry Instruments	21	108.3	3.9	3.6	109	86 - 130
VITROS						
VITROS 250,350,500,700,750,950	36	115.0	4.6	4.0	114	92 - 138
All Chemistry Instruments	42	114.3	4.7	4.1	114	91 - 138

Alkaline Phosphatase (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	348	271.5	41.1	15.1	281	190 - 353	348	107.6	15.2	14.1	108	75 - 140
All Alfa Wassermann Reagents	60	297.1	14.7	5.0	299	207 - 387	60	115.1	6.4	5.6	117	80 - 150
All Horiba Pentra Reagents	22	309.8	8.0	2.6	310	216 - 403	24	120.5	6.4	5.3	120	84 - 157
All Roche Integra/c111/c501 Reagents	41	273.0	8.3	3.0	273	191 - 355	41	105.1	3.3	3.1	105	73 - 137
All Vital Diagnostics Reagents	23	284.7	18.1	6.3	286	199 - 371	23	113.4	7.8	6.9	112	79 - 148
Abaxis Piccolo												
Abaxis Piccolo - waived	16	215.3	6.5	3.0	215	150 - 280	17	90.4	4.7	5.2	90	63 - 118
Abaxis Piccolo	10	213.2	11.0	5.1	215	149 - 278	10	84.3	7.0	8.3	83	59 - 110
All Chemistry Instruments	25	215.6	6.5	3.0	215	150 - 281	27	88.1	6.3	7.1	88	61 - 115
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	39	295.4	14.5	4.9	298	206 - 384	39	114.6	6.3	5.5	116	80 - 150
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	21	300.3	14.9	5.0	299	210 - 391	21	115.9	6.8	5.8	118	81 - 151
Beckman - cartridge												
All Chemistry Instruments	12	253.7	17.9	7.1	263	177 - 330	12	96.9	6.3	6.5	100	67 - 126
Beckman AU												
Beckman AU systems	28	266.0	18.2	6.8	264	186 - 346	28	103.6	7.4	7.2	104	72 - 135
Carolina Liquid Chemistries												
All Chemistry Instruments	12	244.1	22.4	9.2	249	170 - 318	12	94.4	9.0	9.6	97	66 - 123
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	311.6	10.5	3.4	311	218 - 406	22	121.2	6.0	5.0	120	84 - 158
Roche Integra												
Roche Integra	35	272.9	8.7	3.2	273	191 - 355	35	104.8	3.3	3.1	104	73 - 137
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	308.9	16.4	5.3	306	216 - 402	59	125.1	9.2	7.3	125	87 - 163
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	285.4	9.3	3.3	286	199 - 372	16	112.4	5.0	4.4	112	78 - 147
All Chemistry Instruments	22	286.8	15.6	5.4	287	200 - 373	22	113.7	7.9	7.0	112	79 - 148
VITROS												
VITROS 250,350,500,700,750,950	36	196.4	10.0	5.1	197	137 - 256	36	84.6	4.3	5.0	85	59 - 110
All Chemistry Instruments	42	196.3	9.6	4.9	197	137 - 256	42	84.6	4.1	4.8	85	59 - 110

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</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	336	145.0	19.2	13.2	147	101 - 189	335	89.9	11.6	12.9	90	62 - 117
All Alfa Wassermann Reagents	60	154.3	8.2	5.3	156	107 - 201	60	93.8	5.5	5.8	95	65 - 122
All Horiba Pentra Reagents	24	162.7	6.1	3.8	162	113 - 212	24	99.7	5.1	5.1	99	69 - 130
All Roche Integra/c111/c501 Reagents	40	142.5	3.6	2.5	143	99 - 186	40	87.2	2.4	2.8	87	61 - 114
All Vital Diagnostics Reagents	23	149.3	10.7	7.1	150	104 - 195	23	92.4	5.7	6.1	92	64 - 121
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	113	78 - 146	6	-	-	-	69	49 - 92
Abaxis Piccolo	9	-	-	-	113	78 - 146	9	-	-	-	70	49 - 92
All Chemistry Instruments	15	111.9	3.7	3.3	113	78 - 146	15	70.5	5.9	8.3	69	49 - 92
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	39	153.4	8.1	5.3	155	107 - 200	39	93.4	5.5	5.8	94	65 - 122
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	21	155.9	8.2	5.3	157	109 - 203	21	94.5	5.5	5.8	95	66 - 123
Beckman - cartridge												
All Chemistry Instruments	12	132.3	8.8	6.7	137	92 - 172	12	80.8	4.8	5.9	83	56 - 106
Beckman AU												
Beckman AU systems	28	138.5	9.6	6.9	138	96 - 181	28	84.4	6.4	7.6	84	59 - 110
Carolina Liquid Chemistries												
All Chemistry Instruments	12	128.3	11.5	9.0	131	89 - 167	12	78.9	7.4	9.3	81	55 - 103
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	163.1	6.1	3.7	162	114 - 213	22	100.1	4.8	4.8	100	70 - 131
Roche Integra												
Roche Integra	34	142.3	3.3	2.3	143	99 - 186	34	87.0	2.4	2.7	86	60 - 114
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	165.0	11.7	7.1	164	115 - 215	59	104.4	8.3	7.9	103	73 - 136
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	149.2	5.6	3.7	150	104 - 194	16	92.3	3.1	3.3	92	64 - 121
All Chemistry Instruments	22	149.6	10.8	7.2	150	104 - 195	22	93.0	5.1	5.5	92	65 - 121
VITROS												
VITROS 250,350,500,700,750,950	35	114.9	6.5	5.7	115	80 - 150	36	75.3	4.1	5.4	76	52 - 98
All Chemistry Instruments	41	115.1	6.2	5.4	115	80 - 150	42	75.6	4.0	5.3	76	52 - 99

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	336	125.9	17.1	13.5	128	88 - 164
All Alfa Wassermann Reagents	60	134.2	7.2	5.4	136	93 - 175
All Horiba Pentra Reagents	23	140.4	6.0	4.2	140	98 - 183
All Roche Integra/c111/c501 Reagents	41	122.9	3.6	3.0	123	86 - 160
All Vital Diagnostics Reagents	23	131.1	5.0	3.8	131	91 - 171
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	95	67 - 127
Abaxis Piccolo	9	-	-	-	98	67 - 127
All Chemistry Instruments	15	97.0	5.5	5.7	96	67 - 127
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	39	133.6	7.2	5.4	135	93 - 174
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	21	135.4	7.2	5.3	136	94 - 176
Beckman - cartridge						
All Chemistry Instruments	12	114.1	8.1	7.1	118	79 - 149
Beckman AU						
Beckman AU systems	28	120.5	8.3	6.9	121	84 - 157
Carolina Liquid Chemistries						
All Chemistry Instruments	12	110.8	10.9	9.8	115	77 - 145
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	141.3	5.2	3.7	141	98 - 184
Roche Integra						
Roche Integra	35	122.8	3.7	3.0	123	85 - 160
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	59	144.9	9.9	6.8	144	101 - 189
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	130.1	4.4	3.4	131	91 - 170
All Chemistry Instruments	22	131.4	4.8	3.7	132	91 - 171
VITROS						
VITROS 250,350,500,700,750,950	36	100.2	4.9	4.9	101	70 - 131
All Chemistry Instruments	42	100.1	4.7	4.7	100	70 - 131

AST (SGOT) (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	350	208.5	29.9	14.3	199	166 - 251	350	85.9	12.3	14.3	83	68 - 104
All Horiba Pentra Reagents	24	203.1	10.4	5.1	202	162 - 244	24	84.5	3.7	4.4	84	67 - 102
All Roche Integra/c111/c501 Reagents	40	196.5	8.7	4.4	199	157 - 236	40	80.6	3.3	4.1	81	64 - 97
All Vital Diagnostics Reagents	23	201.6	12.2	6.0	201	161 - 242	23	83.4	5.8	7.0	82	66 - 101
Abaxis Piccolo												
Abaxis Piccolo - waived	17	194.6	10.1	5.2	196	155 - 234	17	82.4	4.1	5.0	83	65 - 99
Abaxis Piccolo	10	195.6	8.4	4.3	197	156 - 235	10	81.7	4.5	5.5	83	65 - 99
All Chemistry Instruments	27	195.0	9.3	4.8	196	156 - 234	27	82.1	4.2	5.1	83	65 - 99
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	31	184.9	9.9	5.4	186	147 - 222	31	74.4	4.3	5.8	74	59 - 90
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	31	184.4	8.7	4.7	186	147 - 222	31	75.3	4.0	5.3	76	60 - 91
Beckman - cartridge												
All Chemistry Instruments	12	187.4	8.0	4.3	189	149 - 225	12	77.8	3.8	4.9	79	62 - 94
Beckman AU												
Beckman AU systems	28	174.2	7.7	4.4	176	139 - 210	27	71.6	3.1	4.3	72	57 - 86
Carolina Liquid Chemistries												
All Chemistry Instruments	11	194.8	11.3	5.8	197	155 - 234	11	81.0	4.5	5.5	83	64 - 98
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	202.4	10.6	5.2	201	161 - 243	22	84.1	3.7	4.4	83	67 - 101
Roche Integra												
Roche Integra	34	196.1	9.1	4.7	197	156 - 236	34	80.4	3.5	4.3	81	64 - 97
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	254.1	7.4	2.9	255	203 - 305	59	104.3	3.6	3.5	104	83 - 126
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	206.3	9.2	4.5	205	165 - 248	16	85.2	4.6	5.4	84	68 - 103
All Chemistry Instruments	22	201.7	12.4	6.2	202	161 - 243	22	84.0	5.1	6.1	83	67 - 101
VITROS												
VITROS 250,350,500,700,750,950	36	247.0	11.3	4.6	248	197 - 297	36	101.2	4.9	4.8	102	80 - 122
All Chemistry Instruments	42	247.2	11.1	4.5	248	197 - 297	42	101.3	4.6	4.6	102	81 - 122

AST (SGOT) (IU/L)

<u>Instrument/Reagent</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	337	112.7	20.6	18.3	105	90 - 136	338	74.4	16.5	22.1	68	59 - 90
All Horiba Pentra Reagents	24	108.1	5.7	5.3	107	86 - 130	24	70.3	4.0	5.7	70	56 - 85
All Roche Integra/c111/c501 Reagents	41	101.8	5.8	5.7	102	81 - 123	41	64.8	4.3	6.6	66	51 - 78
All Vital Diagnostics Reagents	22	107.6	7.0	6.5	107	86 - 130	23	71.0	5.5	7.8	72	56 - 86
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	105	83 - 125	6	-	-	-	68	54 - 83
Abaxis Piccolo	9	-	-	-	107	83 - 125	9	-	-	-	70	54 - 83
All Chemistry Instruments	15	104.0	5.8	5.6	106	83 - 125	15	68.5	5.0	7.3	69	54 - 83
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	31	95.4	5.8	6.1	97	76 - 115	31	58.8	4.7	7.9	60	47 - 71
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	31	95.3	5.8	6.0	96	76 - 115	31	58.8	4.1	7.0	59	47 - 71
Beckman - cartridge												
All Chemistry Instruments	12	99.5	4.3	4.3	101	79 - 120	12	65.5	3.2	4.9	67	52 - 79
Beckman AU												
Beckman AU systems	28	92.5	5.2	5.6	93	74 - 111	28	59.8	3.2	5.3	60	47 - 72
Carolina Liquid Chemistries												
All Chemistry Instruments	11	102.0	6.6	6.5	105	81 - 123	11	66.2	4.3	6.5	68	52 - 80
Horiba ABX Pentra												
Horiba ABX Pentra 400	22	108.0	6.0	5.5	106	86 - 130	22	70.2	4.2	5.9	70	56 - 85
Roche Integra												
Roche Integra	35	101.4	6.1	6.0	101	81 - 122	35	64.4	4.5	6.9	65	51 - 78
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	145.6	4.7	3.3	146	116 - 175	58	101.0	3.4	3.3	101	80 - 122
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	110.1	5.9	5.3	109	88 - 133	16	72.8	4.1	5.7	73	58 - 88
All Chemistry Instruments	22	107.6	7.0	6.5	107	86 - 130	22	71.5	5.1	7.1	73	57 - 86
VITROS												
VITROS 250,350,500,700,750,950	36	137.4	7.0	5.1	138	109 - 165	36	93.3	5.3	5.7	94	74 - 112
All Chemistry Instruments	42	137.7	6.6	4.8	138	110 - 166	42	93.4	5.1	5.5	94	74 - 113

AST (SGOT) (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	338	98.6	17.5	17.7	92	78 - 119
All Horiba Pentra Reagents	23	95.3	4.4	4.6	94	76 - 115
All Roche Integra/c111/c501 Reagents	40	90.4	4.2	4.6	91	72 - 109
All Vital Diagnostics Reagents	23	95.0	6.3	6.7	95	76 - 114
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	90	73 - 111
Abaxis Piccolo	9	-	-	-	94	73 - 111
All Chemistry Instruments	15	91.8	4.4	4.8	92	73 - 111
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	31	82.8	4.8	5.8	83	66 - 100
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	31	83.1	4.8	5.8	84	66 - 100
Beckman - cartridge						
All Chemistry Instruments	12	87.4	3.5	4.0	88	69 - 105
Beckman AU						
Beckman AU systems	28	80.7	3.8	4.7	81	64 - 97
Carolina Liquid Chemistries						
All Chemistry Instruments	11	90.6	5.5	6.1	93	72 - 109
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	95.1	4.5	4.7	94	76 - 115
Roche Integra						
Roche Integra	34	90.3	4.4	4.9	91	72 - 109
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	58	125.4	3.7	2.9	126	100 - 151
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	97.1	4.9	5.1	96	77 - 117
All Chemistry Instruments	22	95.3	6.3	6.6	95	76 - 115
VITROS						
VITROS 250,350,500,700,750,950	36	118.4	6.2	5.2	119	94 - 143
All Chemistry Instruments	42	118.5	5.8	4.9	119	94 - 143

Creatine Kinase (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	158	193.3	18.5	9.6	194	135 - 252	157	73.1	8.0	10.9	74	51 - 96
All Roche Integra/c111/c501 Reagents	22	219.1	6.2	2.8	218	153 - 285	21	83.9	2.6	3.1	84	58 - 110
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	15	188.1	5.6	3.0	189	131 - 245	15	76.4	3.2	4.2	77	53 - 100
Beckman AU												
Beckman AU systems	16	183.4	12.6	6.9	181	128 - 239	15	69.5	5.3	7.6	69	48 - 91
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	199.7	5.6	2.8	200	139 - 260	12	75.3	1.9	2.5	75	52 - 98
Roche Integra												
Roche Integra	20	218.5	6.1	2.8	218	152 - 284	19	83.8	2.7	3.2	84	58 - 109
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	193.5	5.0	2.6	192	135 - 252	13	71.5	3.3	4.6	71	50 - 93
Siemens Healthcare CKI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	20	195.9	6.1	3.1	197	137 - 255	20	73.3	3.2	4.4	74	51 - 96
VITROS												
VITROS 250,350,500,700,750,950	15	169.1	12.6	7.5	170	118 - 220	15	60.3	3.8	6.3	60	42 - 79
All Chemistry Instruments	18	169.1	11.5	6.8	170	118 - 220	18	60.3	3.6	5.9	60	42 - 79

Creatine Kinase (IU/L)

<u>Instrument/Reagent</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	157	213.4	23.0	10.8	216	149 - 278	158	257.9	31.0	12.0	263	180 - 336
All Roche Integra/c111/c501 Reagents	22	242.5	6.3	2.6	241	169 - 316	22	295.1	6.5	2.2	294	206 - 384
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	15	210.4	8.4	4.0	211	147 - 274	15	251.4	9.8	3.9	253	175 - 327
Beckman AU												
Beckman AU systems	16	205.4	14.9	7.3	203	143 - 267	16	249.4	16.6	6.7	247	174 - 325
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	224.3	7.3	3.3	223	156 - 292	12	273.3	7.4	2.7	274	191 - 356
Roche Integra												
Roche Integra	20	241.6	5.8	2.4	241	169 - 315	20	294.1	5.8	2.0	293	205 - 383
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	215.2	5.4	2.5	216	150 - 280	13	261.4	5.6	2.1	261	182 - 340
Siemens Healthcare CKI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	20	217.4	6.5	3.0	218	152 - 283	20	265.8	8.4	3.2	267	186 - 346
VITROS												
VITROS 250,350,500,700,750,950	15	171.7	14.3	8.4	170	120 - 224	15	195.4	17.0	8.7	195	136 - 255
All Chemistry Instruments	18	169.7	15.1	8.9	170	118 - 221	18	196.1	15.6	8.0	196	137 - 255

Creatine Kinase (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	158	142.3	14.6	10.2	144	99 - 186
All Roche Integra/c111/c501 Reagents	22	161.0	5.2	3.2	161	112 - 210
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	15	142.2	5.0	3.5	143	99 - 185
Beckman AU						
Beckman AU systems	16	135.9	9.5	7.0	134	95 - 177
Horiba ABX Pentra						
Horiba ABX Pentra 400	12	149.3	4.1	2.7	149	104 - 195
Roche Integra						
Roche Integra	20	160.4	5.0	3.1	161	112 - 209
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	13	142.2	3.8	2.7	142	99 - 185
Siemens Healthcare CKI						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	20	144.1	4.3	3.0	145	100 - 188
VITROS						
VITROS 250,350,500,700,750,950	15	117.9	10.5	8.9	118	82 - 154
All Chemistry Instruments	18	117.8	9.6	8.2	118	82 - 154

GGT (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	85	143.3	30.9	21.5	135	81 - 206	85	59.6	14.2	23.8	54	31 - 88
All Roche Integra/c111/c501 Reagents Siemens (Dade) Healthcare Siemens	11	129.2	1.9	1.5	129	103 - 156	11	51.7	1.1	2.1	52	41 - 63
Dimension/AR/ES/RxL/Xpand/EXL	15	172.5	4.0	2.3	172	138 - 208	15	72.9	2.1	2.8	73	58 - 88
Specimen CH-13							Specimen CH-14					
All Method	82	94.4	22.2	23.5	87	50 - 139	81	80.0	18.8	23.5	76	42 - 118
All Roche Integra/c111/c501 Reagents Siemens (Dade) Healthcare Siemens	11	84.2	1.7	2.0	84	67 - 102	11	70.0	1.5	2.1	70	56 - 84
Dimension/AR/ES/RxL/Xpand/EXL	15	116.1	2.5	2.1	116	92 - 140	15	98.9	2.3	2.3	98	79 - 119
Specimen CH-15												
All Method	82	77.4	18.4	23.7	71	40 - 115						
All Roche Integra/c111/c501 Reagents Siemens (Dade) Healthcare Siemens	11	67.5	1.4	2.1	68	54 - 82						
Dimension/AR/ES/RxL/Xpand/EXL	15	94.8	2.4	2.5	94	75 - 114						

Amylase (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	101	116.6	24.9	21.3	122	81 - 152	100	63.7	16.0	25.2	69	44 - 83
All Roche Integra/c111/c501 Reagents	16	119.3	2.8	2.4	120	83 - 156	16	67.1	1.8	2.7	67	46 - 88
Beckman AU												
Beckman AU systems	14	102.7	5.3	5.2	102	71 - 134	14	58.8	3.5	5.9	58	41 - 77
Roche Integra												
Roche Integra	15	119.3	2.9	2.5	120	83 - 156	15	67.2	1.8	2.7	67	47 - 88
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	19	136.5	2.5	1.8	136	95 - 178	19	77.1	1.9	2.5	77	53 - 101
VITROS												
VITROS 250,350,500,700,750,950	14	69.2	5.2	7.5	68	48 - 90	13	30.2	0.6	1.8	30	21 - 40
All Chemistry Instruments	16	69.2	5.6	8.1	68	48 - 90	15	30.1	0.5	1.7	30	21 - 40
Specimen CH-13							Specimen CH-14					
All Method	98	79.3	13.6	17.1	84	55 - 104	98	64.8	9.7	15.0	67	45 - 85
All Roche Integra/c111/c501 Reagents	16	83.4	2.0	2.4	84	58 - 109	16	69.1	1.6	2.3	69	48 - 90
Beckman AU												
Beckman AU systems	14	66.9	3.5	5.3	66	46 - 88	14	51.1	2.5	4.8	50	35 - 67
Roche Integra												
Roche Integra	15	83.4	2.1	2.5	83	58 - 109	15	69.0	1.6	2.3	69	48 - 90
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	19	88.0	1.9	2.2	88	61 - 115	19	66.1	1.7	2.5	66	46 - 86
VITROS												
VITROS 250,350,500,700,750,950	14	55.5	5.7	10.3	55	38 - 73	13	52.6	4.4	8.4	52	36 - 69
All Chemistry Instruments	16	55.9	6.2	11.2	55	39 - 73	16	55.3	9.7	17.6	53	38 - 72

Amylase (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	97	72.0	15.0	20.9	77	50 - 94
All Roche Integra/c111/c501 Reagents	16	75.6	1.7	2.3	76	52 - 99
Beckman AU						
Beckman AU systems	14	62.2	3.1	5.1	61	43 - 81
Roche Integra						
Roche Integra	15	75.5	1.8	2.3	75	52 - 99
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	19	82.4	2.1	2.5	82	57 - 108
VITROS						
VITROS 250,350,500,700,750,950	13	42.5	4.6	10.8	42	29 - 56
All Chemistry Instruments	15	42.3	4.7	11.0	42	29 - 55

Lactate Dehydrogenase (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	92	532.7	69.8	13.1	574	426 - 640	92	239.4	28.5	11.9	255	191 - 288
All Alfa Wassermann Reagents	13	424.0	13.9	3.3	424	339 - 509	13	193.7	6.9	3.5	194	154 - 233
All Roche Integra/c111/c501 Reagents	17	589.2	15.6	2.7	585	471 - 708	18	266.7	8.4	3.1	266	213 - 321
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	12	423.5	14.4	3.4	420	338 - 509	12	193.6	7.2	3.7	192	154 - 233
Roche Integra												
Roche Integra	15	595.6	24.4	4.1	587	476 - 715	15	268.4	8.0	3.0	267	214 - 323
Siemens Healthcare LDI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	12	585.2	10.9	1.9	584	468 - 703	12	256.8	6.8	2.7	257	205 - 309
VITROS												
VITROS 250,350,500,700,750,950	10	2055.9	41.0	2.0	2052	1644 - 2468	10	878.4	26.7	3.0	874	702 - 1055
All Chemistry Instruments	11	2057.8	39.4	1.9	2062	1646 - 2470	11	884.4	32.1	3.6	875	707 - 1062
<u>Instrument/Reagent</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	92	295.7	35.3	11.9	318	236 - 355	92	188.8	22.8	12.1	200	151 - 227
All Alfa Wassermann Reagents	13	238.2	10.2	4.3	239	190 - 286	13	151.5	6.8	4.5	151	121 - 182
All Roche Integra/c111/c501 Reagents	17	326.5	6.3	1.9	325	261 - 392	18	209.0	6.0	2.8	209	167 - 251
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	12	238.0	10.7	4.5	238	190 - 286	12	151.3	7.0	4.6	151	121 - 182
Roche Integra												
Roche Integra	15	328.9	10.1	3.1	327	263 - 395	15	209.7	6.1	2.9	210	167 - 252
Siemens Healthcare LDI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	12	320.1	14.2	4.4	320	256 - 385	12	203.1	6.7	3.3	204	162 - 244
VITROS												
VITROS 250,350,500,700,750,950	10	1042.1	30.4	2.9	1038	833 - 1251	10	686.0	29.4	4.3	685	548 - 824
All Chemistry Instruments	11	1048.2	35.2	3.4	1040	838 - 1258	11	690.5	31.5	4.6	687	552 - 829

Lactate Dehydrogenase (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	92	268.8	32.2	12.0	289	215 - 323
All Alfa Wassermann Reagents	13	217.0	10.0	4.6	214	173 - 261
All Roche Integra/c111/c501 Reagents	17	297.0	4.9	1.6	297	237 - 357
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	12	216.8	10.4	4.8	214	173 - 261
Roche Integra						
Roche Integra	15	299.2	8.0	2.7	298	239 - 360
Siemens Healthcare LDI						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	12	291.9	6.9	2.4	291	233 - 351
VITROS						
VITROS 250,350,500,700,750,950	10	966.3	26.8	2.8	966	773 - 1160
All Chemistry Instruments	11	970.5	28.9	3.0	975	776 - 1165

Lipase (IU/L)

Specimen CH-11

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	37	44.2	3.6	8.1	47	30 - 58
All Roche Integra/c111/c501 Reagents	12	44.0	1.7	3.9	44	30 - 58
Roche Integra						
Roche Integra	11	44.3	1.5	3.4	44	30 - 58
Siemens (Dade) Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	10	183.9	7.2	3.9	184	128 - 240
VITROS						
VITROS 250,350,500,700,750,950	10	623.5	26.2	4.2	630	436 - 811
All Chemistry Instruments	12	624.8	24.0	3.8	630	437 - 813

Specimen CH-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
37	16.6	2.8	16.9	18	11 - 22
12	16.1	0.8	4.9	16	11 - 21
11	16.1	0.8	5.2	16	11 - 21
10	71.3	2.1	3.0	72	49 - 93
10	164.3	6.3	3.8	165	115 - 214
12	163.3	6.1	3.7	163	114 - 213

Lipase (IU/L)

Specimen CH-13

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	37	55.5	5.1	9.2	60	38 - 73
All Roche Integra/c111/c501 Reagents	12	54.5	1.9	3.5	55	38 - 71
Roche Integra						
Roche Integra	11	54.8	1.7	3.0	55	38 - 72
Siemens (Dade) Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	10	229.0	8.8	3.8	230	160 - 298
VITROS						
VITROS 250,350,500,700,750,950	10	815.6	28.6	3.5	827	570 - 1061
All Chemistry Instruments	12	817.2	26.2	3.2	827	572 - 1063

Specimen CH-14

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
38	71.0	9.3	13.1	79	49 - 93
12	68.9	2.3	3.4	70	48 - 90
11	69.4	1.8	2.6	70	48 - 91
10	289.2	11.7	4.1	288	202 - 376
10	1061.9	35.6	3.4	1067	743 - 1381
12	1063.2	32.5	3.1	1067	744 - 1383

Specimen CH-15

All Method	37	36.7	3.4	9.2	39	25 - 48
All Roche Integra/c111/c501 Reagents	12	36.1	1.2	3.4	37	25 - 47
Roche Integra						
Roche Integra	11	36.3	1.1	3.0	37	25 - 48
Siemens (Dade) Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	10	151.9	5.6	3.7	152	106 - 198
VITROS						
VITROS 250,350,500,700,750,950	10	530.8	21.6	4.1	535	371 - 691
All Chemistry Instruments	12	530.8	19.6	3.7	533	371 - 690

Alpha-fetoprotein (AFP) (ng/mL)

Specimen CH-11

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	205.80	23.12	11.2	197.2	136.4 - 275.2

Specimen CH-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
5	41.20	1.97	4.8	41.1	35.2 - 47.2

Specimen CH-13

All Method	5	209.06	14.23	6.8	208.1	166.3 - 251.8
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Specimen CH-14

5	255.98	31.43	12.3	245.0	161.6 - 350.3
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Specimen CH-15

All Method	5	125.66	11.32	9.0	120.4	91.7 - 159.7
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Cortisol (mcg/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	16	19.22	1.71	8.9	18.5	14.4 - 24.1	16	7.41	0.35	4.8	7.4	5.5 - 9.3
	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	22.39	2.50	11.2	21.8	16.7 - 28.0	16	28.63	4.96	17.3	26.0	21.4 - 35.8
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	16	16.21	2.30	14.2	15.2	12.1 - 20.3						

T₃ 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	29	42.95	3.32	7.7	42.4	32.9 - 53.0	29	47.29	5.51	11.7	46.9	30.7 - 63.9
	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	29	44.16	3.74	8.5	43.5	32.9 - 55.4	29	44.01	3.78	8.6	43.7	32.6 - 55.4
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	29	45.52	4.19	9.2	45.0	32.9 - 58.1						

T Uptake (uptake units)

<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	2	-	-	-	0.56	Not graded	2	-	-	-	0.76	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	2	-	-	-	0.48	Not graded	2	-	-	-	0.64	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>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	0.60	Not graded						

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	44	1.37	0.27	19.4	1.5	0.5 - 2.2	43	0.86	0.42	48.7	0.9	0.0 - 2.2
All TOSOH Instruments	13	4.15	0.23	5.6	4.2	3.4 - 4.9	13	2.86	0.16	5.6	2.9	2.3 - 3.4
Beckman ACCESS / 2 / Dxl	16	1.48	0.11	7.5	1.5	1.1 - 1.9	15	0.87	0.08	9.4	0.8	0.6 - 1.2
TOSOH ST AIA	10	4.11	0.24	5.8	4.1	3.3 - 4.9	10	2.84	0.17	6.0	2.9	2.3 - 3.4
<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	44	1.57	0.32	20.2	1.7	0.6 - 2.6	45	1.86	0.47	25.1	2.1	0.4 - 3.3
All TOSOH Instruments	13	4.54	0.20	4.5	4.6	3.9 - 5.2	13	5.21	0.24	4.6	5.2	4.4 - 6.0
Beckman ACCESS / 2 / Dxl	16	1.76	0.14	7.7	1.8	1.3 - 2.2	16	2.10	0.13	6.3	2.1	1.7 - 2.5
TOSOH ST AIA	10	4.50	0.22	4.8	4.5	3.8 - 5.2	10	5.17	0.24	4.6	5.2	4.4 - 5.9
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	44	1.19	0.22	18.6	1.3	0.5 - 1.9						
All TOSOH Instruments	13	3.78	0.20	5.2	3.7	3.1 - 4.4						
Beckman ACCESS / 2 / Dxl	16	1.32	0.09	6.9	1.3	1.0 - 1.6						
TOSOH ST AIA	10	3.75	0.19	5.1	3.7	3.1 - 4.4						

Free T₃ (pg/mL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	3.70	0.45	12.3	3.8	2.3 - 5.1	29	2.50	0.53	21.2	2.7	0.9 - 4.1
All TOSOH Instruments	10	7.14	0.47	6.6	7.2	5.7 - 8.6	10	4.13	0.30	7.3	4.1	3.2 - 5.1
Beckman ACCESS / 2 / Dxl	12	3.73	0.30	8.0	3.6	2.8 - 4.7	12	2.55	0.31	12.0	2.5	1.6 - 3.5
Specimen CH-13							Specimen CH-14					
All Method	28	4.09	0.47	11.5	4.2	2.6 - 5.6	28	4.72	0.64	13.6	4.9	2.7 - 6.7
All TOSOH Instruments	10	8.60	0.70	8.1	8.9	6.5 - 10.7	10	10.09	1.16	11.5	10.3	6.5 - 13.6
Beckman ACCESS / 2 / Dxl	12	3.98	0.36	9.1	3.9	2.8 - 5.1	12	4.14	0.77	18.5	4.3	1.8 - 6.5
Specimen CH-15												
All Method	29	3.39	0.54	16.1	3.5	1.7 - 5.1						
All TOSOH Instruments	10	6.73	0.53	7.8	6.7	5.1 - 8.4						
Beckman ACCESS / 2 / Dxl	12	3.37	0.36	10.7	3.3	2.2 - 4.5						

Thyroxine (mcg/dL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	53	9.23	0.67	7.2	9.4	7.3 - 11.1	53	4.46	0.59	13.2	4.5	3.4 - 5.5
All TOSOH Instruments	16	9.41	0.60	6.4	9.6	7.5 - 11.3	16	4.46	0.43	9.7	4.5	3.4 - 5.5
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	9.36	0.52	5.6	9.4	7.4 - 11.3	13	4.25	0.39	9.1	4.3	3.2 - 5.3
TOSOH ST AIA	13	9.43	0.55	5.9	9.5	7.5 - 11.4	13	4.45	0.40	8.9	4.4	3.4 - 5.5
Specimen CH-13							Specimen CH-14					
All Method	52	10.45	0.95	9.0	10.6	8.3 - 12.6	53	12.26	1.03	8.4	12.5	9.8 - 14.8
All TOSOH Instruments	15	10.69	0.97	9.1	10.8	8.5 - 12.9	16	12.68	0.80	6.3	12.8	10.1 - 15.3
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	10.59	0.48	4.5	10.6	8.4 - 12.8	13	12.62	0.51	4.1	12.8	10.0 - 15.2
TOSOH ST AIA	12	10.74	0.98	9.1	10.8	8.5 - 12.9	13	12.66	0.83	6.6	12.6	10.1 - 15.2
Specimen CH-15												
All Method	53	7.58	0.72	9.5	7.6	6.0 - 9.1						
All TOSOH Instruments	16	7.69	0.54	7.0	7.9	6.1 - 9.3						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	7.45	0.44	5.8	7.5	5.9 - 9.0						
TOSOH ST AIA	13	7.68	0.51	6.6	7.8	6.1 - 9.3						

Free Thyroxine (ng/dL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	221	2.40	0.60	24.9	2.5	0.6 - 4.2	221	1.34	0.35	26.3	1.3	0.2 - 2.5
All DPC Immulite Instruments	14	2.56	0.11	4.2	2.5	2.2 - 2.9	14	1.59	0.08	5.2	1.6	1.3 - 1.9
All Roche Elecsys/Cobas Instruments	12	2.67	0.10	3.7	2.7	2.3 - 3.0	12	1.50	0.06	4.0	1.5	1.3 - 1.7
All TOSOH Instruments	47	3.03	0.22	7.4	3.0	2.3 - 3.7	47	1.72	0.13	7.4	1.7	1.3 - 2.2
Abbott Architect	19	2.69	0.24	9.0	2.7	1.9 - 3.5	19	1.23	0.07	6.0	1.2	1.0 - 1.5
Beckman ACCESS / 2 / Dxl	47	1.96	0.13	6.6	2.0	1.5 - 2.4	46	1.25	0.09	6.9	1.2	0.9 - 1.6
bioMerieux Vidas, Mini Vidas	35	1.57	0.15	9.2	1.5	1.1 - 2.1	34	0.85	0.09	10.1	0.8	0.5 - 1.2
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	31	2.75	0.30	10.7	2.7	1.8 - 3.7	32	1.42	0.15	10.7	1.4	0.9 - 1.9
TOSOH AIA	18	3.03	0.24	7.8	3.0	2.3 - 3.8	18	1.70	0.13	7.8	1.7	1.3 - 2.1
TOSOH ST AIA	29	3.02	0.22	7.2	3.0	2.3 - 3.7	29	1.73	0.13	7.3	1.7	1.3 - 2.2
Specimen CH-13							Specimen CH-14					
All Method	220	2.67	0.66	24.8	2.8	0.6 - 4.7	220	3.08	0.75	24.3	3.2	0.8 - 5.4
All DPC Immulite Instruments	14	2.69	0.11	4.1	2.7	2.3 - 3.1	14	2.94	0.13	4.4	2.9	2.5 - 3.4
All Roche Elecsys/Cobas Instruments	12	2.96	0.14	4.9	3.0	2.5 - 3.4	12	3.43	0.14	4.2	3.5	3.0 - 3.9
All TOSOH Instruments	47	3.41	0.28	8.1	3.5	2.5 - 4.3	46	3.92	0.22	5.7	3.9	3.2 - 4.6
Abbott Architect	18	3.07	0.24	7.8	3.1	2.3 - 3.8	18	3.68	0.40	10.9	3.7	2.4 - 4.9
Beckman ACCESS / 2 / Dxl	45	2.20	0.11	5.0	2.2	1.8 - 2.6	45	2.46	0.10	4.1	2.5	2.1 - 2.8
bioMerieux Vidas, Mini Vidas	34	1.75	0.11	6.3	1.8	1.4 - 2.1	35	2.16	0.16	7.6	2.1	1.6 - 2.7
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	31	3.03	0.23	7.6	3.0	2.3 - 3.8	30	3.42	0.22	6.5	3.4	2.7 - 4.1
TOSOH AIA	18	3.33	0.29	8.8	3.3	2.4 - 4.3	18	3.91	0.24	6.1	3.9	3.1 - 4.7
TOSOH ST AIA	29	3.46	0.26	7.5	3.5	2.6 - 4.3	29	3.96	0.26	6.5	3.9	3.1 - 4.8

Free Thyroxine (ng/dL)

Specimen CH-15

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	221	2.10	0.54	25.5	2.1	0.4 - 3.8
All DPC Immulite Instruments	14	2.19	0.14	6.4	2.2	1.7 - 2.7
All Roche Elecsys/Cobas Instruments	12	2.27	0.09	3.9	2.3	2.0 - 2.6
All TOSOH Instruments	46	2.70	0.19	7.0	2.7	2.1 - 3.3
Abbott Architect	18	2.12	0.13	6.2	2.1	1.7 - 2.6
Beckman ACCESS / 2 / Dxl	45	1.80	0.11	6.2	1.8	1.4 - 2.2
bioMerieux Vidas, Mini Vidas	35	1.38	0.12	8.5	1.4	1.0 - 1.8
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	31	2.34	0.21	8.8	2.3	1.7 - 3.0
TOSOH AIA	18	2.67	0.20	7.4	2.7	2.0 - 3.3
TOSOH ST AIA	28	2.72	0.18	6.8	2.7	2.1 - 3.3

TSH (μU/mL)

Specimen CH-11

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	304	5.34	0.57	10.7	5.3	3.6 - 7.1
All Abbott Instruments	21	4.84	0.28	5.8	4.8	3.9 - 5.7
All DPC Immulite Instruments	15	5.25	0.45	8.6	5.2	3.9 - 6.7
All Roche Elecsys/Cobas Instruments	17	5.20	0.26	5.0	5.3	4.4 - 6.0
All TOSOH Instruments	65	5.63	0.30	5.3	5.6	4.7 - 6.6
Abbott Architect	21	4.84	0.28	5.8	4.8	3.9 - 5.7
Beckman ACCESS / 2 / Dxl	56	4.73	0.28	5.9	4.8	3.8 - 5.6
bioMerieux Vidas, Mini Vidas	62	5.83	0.34	5.8	5.8	4.8 - 6.9
DPC Immulite/1000	10	4.99	0.27	5.4	5.0	4.1 - 5.8
Roche Elecsys 1010/2010	11	5.23	0.21	4.0	5.3	4.5 - 5.9
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	44	5.08	0.35	6.8	5.1	4.0 - 6.2
TOSOH AIA	26	5.62	0.30	5.3	5.6	4.7 - 6.6
TOSOH ST AIA	39	5.63	0.31	5.4	5.7	4.7 - 6.6

Specimen CH-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
303	1.04	0.11	11.0	1.0	0.6 - 1.4
21	0.93	0.05	5.2	0.9	0.7 - 1.1
15	0.98	0.13	13.5	0.9	0.5 - 1.4
17	1.16	0.05	4.4	1.2	1.0 - 1.4
66	1.11	0.08	7.5	1.1	0.8 - 1.4
21	0.93	0.05	5.2	0.9	0.7 - 1.1
56	0.95	0.06	6.0	1.0	0.7 - 1.2
62	1.07	0.07	6.2	1.1	0.8 - 1.3
10	0.90	0.07	7.4	0.9	0.7 - 1.1
11	1.16	0.05	4.3	1.2	1.0 - 1.4
44	0.96	0.08	7.9	1.0	0.7 - 1.2
26	1.10	0.07	6.5	1.1	0.8 - 1.4
40	1.12	0.09	8.1	1.1	0.8 - 1.4

TSH (μU/mL)

Specimen CH-13							Specimen CH-14					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	304	7.05	0.78	11.1	7.1	4.6 - 9.5	303	9.18	1.04	11.3	9.3	6.0 - 12.4
All Abbott Instruments	20	6.47	0.38	5.8	6.5	5.3 - 7.6	20	8.54	0.54	6.3	8.6	6.9 - 10.2
All DPC Immulite Instruments	15	6.81	0.81	11.9	6.7	4.3 - 9.3	15	8.77	0.71	8.0	8.6	6.6 - 10.9
All Roche Elecsys/Cobas Instruments	17	6.94	0.36	5.2	7.1	5.8 - 8.1	17	8.96	0.46	5.1	9.2	7.5 - 10.4
All TOSOH Instruments	68	7.36	0.53	7.2	7.4	5.7 - 9.0	66	9.73	0.47	4.8	9.8	8.3 - 11.2
Abbott Architect	20	6.47	0.38	5.8	6.5	5.3 - 7.6	20	8.54	0.54	6.3	8.6	6.9 - 10.2
Beckman ACCESS / 2 / DxI	56	6.14	0.31	5.1	6.1	5.2 - 7.1	56	7.80	0.46	5.9	7.8	6.4 - 9.2
bioMerieux Vidas, Mini Vidas	62	7.79	0.43	5.5	7.8	6.5 - 9.1	62	10.13	0.55	5.5	10.1	8.4 - 11.8
DPC Immulite/1000	10	6.36	0.48	7.5	6.4	4.9 - 7.8	10	8.45	0.37	4.3	8.6	7.3 - 9.6
Roche Elecsys 1010/2010	11	6.97	0.34	4.9	7.1	5.9 - 8.0	11	8.98	0.40	4.5	9.2	7.7 - 10.2
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	43	6.79	0.42	6.1	6.8	5.5 - 8.1	44	8.96	0.62	6.9	9.0	7.1 - 10.9
TOSOH AIA	27	7.37	0.54	7.3	7.4	5.7 - 9.0	27	9.70	0.69	7.1	9.7	7.6 - 11.8
TOSOH ST AIA	41	7.35	0.53	7.2	7.4	5.7 - 9.0	41	9.74	0.45	4.7	9.8	8.3 - 11.2

Specimen CH-15						
All Method	300	4.15	0.42	10.2	4.1	2.8 - 5.5
All Abbott Instruments	20	3.74	0.19	5.1	3.8	3.1 - 4.4
All DPC Immulite Instruments	15	4.09	0.43	10.6	3.9	2.7 - 5.4
All Roche Elecsys/Cobas Instruments	17	4.21	0.21	4.9	4.3	3.5 - 4.9
All TOSOH Instruments	68	4.39	0.27	6.1	4.4	3.5 - 5.2
Abbott Architect	20	3.74	0.19	5.1	3.8	3.1 - 4.4
Beckman ACCESS / 2 / DxI	55	3.72	0.17	4.6	3.7	3.2 - 4.3
bioMerieux Vidas, Mini Vidas	61	4.48	0.25	5.6	4.5	3.7 - 5.3
DPC Immulite/1000	10	3.85	0.18	4.6	3.8	3.3 - 4.4
Roche Elecsys 1010/2010	11	4.22	0.20	4.7	4.3	3.6 - 4.9
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	44	3.86	0.22	5.6	3.9	3.2 - 4.6
TOSOH AIA	27	4.31	0.32	7.3	4.3	3.3 - 5.3
TOSOH ST AIA	41	4.44	0.22	5.0	4.5	3.7 - 5.2

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-11		Specimen HCG-12	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	143	1	-	144
AimStep Combo Pregnancy	2	-	-	2
Beckman Coulter ICON 25 hCG	4	-	-	4
Beckman Coulter ICON II HCG	1	-	-	1
Cardinal Health SP Brand combo	9	-	-	9
CONSULT diagnostics hCG Combo	15	-	-	15
Genzyme OSOM hCG Combo Test	7	-	-	7
Henry Schein One Step + Combo	6	-	-	6
Immunostics Detector Combi	1	-	-	1
LifeSign Status hCG	1	-	-	1
McKesson hCG Combo Cassette	4	-	-	4
Polymedco Poly stat hCG	2	-	-	2
PSS Select hCG Combo	3	-	-	3
Quidel QuickVue + One-Step	14	1	-	15
Quidel QuickVue One-Step Combo	59	-	-	59
Stanbio QUPID Plus	1	-	-	1
Sure-Vue hCG - 25mIU	1	-	-	1
Sure-Vue hCG-STAT (10mIU)	2	-	-	2
TOSOH ST AIA	1	-	-	1

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-13		Specimen HCG-14	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	144	144	-
AimStep Combo Pregnancy	-	2	2	-
Beckman Coulter ICON 25 hCG	-	4	4	-
Beckman Coulter ICON II HCG	-	1	1	-
Cardinal Health SP Brand combo	-	9	9	-
CONSULT diagnostics hCG Combo	-	15	15	-
Genzyme OSOM hCG Combo Test	-	7	7	-
Henry Schein One Step + Combo	-	6	6	-
Immunostics Detector Combi	-	1	1	-
LifeSign Status hCG	-	1	1	-
McKesson hCG Combo Cassette	-	4	4	-
Polymedco Poly stat hCG	-	2	2	-
PSS Select hCG Combo	-	3	3	-
Quidel QuickVue + One-Step	-	15	15	-
Quidel QuickVue One-Step Combo	-	59	59	-
Stanbio QUPID Plus	-	1	1	-
Sure-Vue hCG - 25mIU	-	1	1	-
Sure-Vue hCG-STAT (10mIU)	-	2	2	-
TOSOH ST AIA	-	1	1	-

Serum hCG – Qualitative

Specimen HCG-15

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	144	-
AimStep Combo Pregnancy	2	-
Beckman Coulter ICON 25 hCG	4	-
Beckman Coulter ICON II HCG	1	-
Cardinal Health SP Brand combo	9	-
CONSULT diagnostics hCG Combo	15	-
Genzyme OSOM hCG Combo Test	7	-
Henry Schein One Step + Combo	6	-
Immunostics Detector Combi	1	-
LifeSign Status hCG	1	-
McKesson hCG Combo Cassette	4	-
Polymedco Poly stat hCG	2	-
PSS Select hCG Combo	3	-
Quidel QuickVue + One-Step	15	-
Quidel QuickVue One-Step Combo	59	-
Stanbio QUPID Plus	1	-
Sure-Vue hCG - 25mIU	1	-
Sure-Vue hCG-STAT (10mIU)	2	-
TOSOH ST AIA	1	-

Serum hCG – Quantitative (mIU/mL)

Specimen HCG-11							Specimen HCG-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	83.6	26.3	31.5	75	4 - 163	26	1.2	0.8	71.2	1	0 - 4
Specimen HCG-13							Specimen HCG-14					
All Method	26	1.2	0.8	71.2	1	0 - 4	25	2760.5	1261.6	45.7	3083	0 - 6546
Specimen HCG-15												
All Method	26	411.8	118.3	28.7	435	57 - 767						

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	353	202.0	7.7	3.8	202	181 - 223	348	129.5	5.0	3.8	130	116 - 143
All Alfa Wassermann Reagents	51	201.5	5.0	2.5	201	181 - 222	51	132.0	3.2	2.5	132	118 - 146
All Horiba Pentra Reagents	18	202.1	3.9	1.9	202	181 - 223	18	131.4	2.5	1.9	132	118 - 145
All Roche Integra/c111/c501 Reagents	39	200.8	5.3	2.6	201	180 - 221	39	130.8	3.2	2.4	131	117 - 144
All Vital Diagnostics Reagents	22	205.6	9.4	4.6	206	185 - 227	22	132.8	4.6	3.4	134	119 - 147
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	46	201.5	4.9	2.4	201	181 - 222	46	132.0	3.3	2.5	132	118 - 146
Beckman - cartridge												
All Chemistry Instruments	11	207.7	5.6	2.7	207	186 - 229	11	133.9	3.3	2.5	133	120 - 148
Beckman AU												
Beckman AU systems	25	198.0	5.0	2.5	198	178 - 218	24	127.7	3.2	2.5	128	114 - 141
Carolina Liquid Chemistries												
All Chemistry Instruments	10	208.7	16.4	7.9	205	187 - 230	10	133.6	13.0	9.7	130	120 - 147
Cholestech LDX												
Cholestech LDX - waived	43	211.0	9.7	4.6	211	189 - 233	43	130.8	4.8	3.6	131	117 - 144
All Chemistry Instruments	51	210.5	9.6	4.6	211	189 - 232	51	129.6	5.3	4.1	131	116 - 143
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	202.1	3.9	1.9	202	181 - 223	18	131.4	2.5	1.9	132	118 - 145
Pointe Scientific												
All Chemistry Instruments	11	204.3	8.2	4.0	204	183 - 225	11	131.5	6.6	5.0	132	118 - 145
Roche Integra												
Roche Integra	32	200.7	5.4	2.7	201	180 - 221	32	130.9	3.1	2.4	131	117 - 145
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	50	193.6	4.4	2.3	193	174 - 213	50	126.3	3.4	2.7	126	113 - 139
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	207.5	6.8	3.3	207	186 - 229	15	133.6	3.3	2.5	134	120 - 147
All Chemistry Instruments	20	207.0	8.6	4.1	207	186 - 228	20	133.7	3.5	2.6	134	120 - 148
VITROS												
VITROS 250,350,500,700,750,950	28	203.1	6.9	3.4	202	182 - 224	28	122.7	4.1	3.3	123	110 - 135
All Chemistry Instruments	35	204.8	7.5	3.7	205	184 - 226	36	123.6	4.6	3.8	124	111 - 136

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	312	195.2	7.0	3.6	195	175 - 215	310	208.1	7.2	3.5	207	187 - 229
All Alfa Wassermann Reagents	50	194.8	4.6	2.4	195	175 - 215	51	207.6	5.1	2.5	207	186 - 229
All Horiba Pentra Reagents	18	195.5	4.9	2.5	196	175 - 216	18	209.3	5.4	2.6	210	188 - 231
All Roche Integra/c111/c501 Reagents	39	195.6	4.6	2.3	195	176 - 216	39	207.3	4.6	2.2	207	186 - 229
All Vital Diagnostics Reagents	22	199.8	8.0	4.0	201	179 - 220	21	215.2	4.9	2.3	215	193 - 237
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	45	194.9	4.7	2.4	195	175 - 215	46	207.8	5.2	2.5	208	187 - 229
Beckman - cartridge												
All Chemistry Instruments	11	201.3	4.0	2.0	201	181 - 222	11	213.8	7.3	3.4	214	192 - 236
Beckman AU												
Beckman AU systems	25	192.1	4.5	2.3	192	172 - 212	25	205.4	4.3	2.1	206	184 - 226
Carolina Liquid Chemistries												
All Chemistry Instruments	10	201.0	18.0	8.9	199	180 - 222	10	216.6	17.0	7.8	215	194 - 239
Cholestech LDX												
Cholestech LDX - waived	14	203.4	12.6	6.2	207	183 - 224	14	221.9	11.2	5.0	225	199 - 245
All Chemistry Instruments	19	204.1	12.2	6.0	206	183 - 225	19	220.6	11.0	5.0	223	198 - 243
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	195.5	4.9	2.5	196	175 - 216	18	209.3	5.4	2.6	210	188 - 231
Pointe Scientific												
All Chemistry Instruments	11	199.0	8.1	4.1	198	179 - 219	11	209.6	7.4	3.5	208	188 - 231
Roche Integra												
Roche Integra	32	195.6	4.6	2.3	195	176 - 216	32	207.2	4.6	2.2	207	186 - 228
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	49	188.2	3.6	1.9	189	169 - 208	49	201.1	4.2	2.1	200	180 - 222
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	200.0	6.5	3.3	200	180 - 220	15	214.1	4.2	1.9	214	192 - 236
All Chemistry Instruments	20	200.8	7.6	3.8	201	180 - 221	20	215.2	5.0	2.3	215	193 - 237
VITROS												
VITROS 250,350,500,700,750,950	28	193.7	6.1	3.1	194	174 - 214	28	205.9	6.0	2.9	206	185 - 227
All Chemistry Instruments	36	196.1	8.0	4.1	195	176 - 216	35	207.9	7.4	3.6	206	187 - 229

Cholesterol, Total (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	310	162.2	5.6	3.5	162	146 - 179
All Alfa Wassermann Reagents	51	164.0	4.1	2.5	164	147 - 181
All Horiba Pentra Reagents	18	164.1	4.8	2.9	164	147 - 181
All Roche Integra/c111/c501 Reagents	39	163.4	3.8	2.3	163	147 - 180
All Vital Diagnostics Reagents	22	164.7	8.7	5.3	165	148 - 182
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	46	164.1	4.0	2.4	164	147 - 181
Beckman - cartridge						
All Chemistry Instruments	11	168.8	3.4	2.0	168	151 - 186
Beckman AU						
Beckman AU systems	25	160.2	4.0	2.5	160	144 - 177
Carolina Liquid Chemistries						
All Chemistry Instruments	10	169.7	14.9	8.8	167	152 - 187
Cholestech LDX						
Cholestech LDX - waived	13	165.9	7.8	4.7	169	149 - 183
All Chemistry Instruments	18	164.4	7.3	4.4	164	147 - 181
Horiba ABX Pentra						
Horiba ABX Pentra 400	18	164.1	4.8	2.9	164	147 - 181
Pointe Scientific						
All Chemistry Instruments	11	163.4	8.2	5.0	159	147 - 180
Roche Integra						
Roche Integra	32	163.3	3.6	2.2	163	146 - 180
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	49	157.0	3.3	2.1	157	141 - 173
Vital Diagnostics						
Vital Diagnostics Envoy 500	15	165.3	4.8	2.9	165	148 - 182
All Chemistry Instruments	20	166.6	6.1	3.7	166	149 - 184
VITROS						
VITROS 250,350,500,700,750,950	28	157.9	5.4	3.4	158	142 - 174
All Chemistry Instruments	36	158.8	5.6	3.6	159	142 - 175

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	226	75.6	13.5	17.8	76	52 - 99	244	43.0	10.7	24.8	42	30 - 56
Calculated-Trig/5												
Alfa Wassermann ACE/NexCT/Alera	37	86.0	5.4	6.2	86	60 - 112	36	55.3	3.3	6.0	55	38 - 72
Beckman AU systems	17	69.6	7.0	10.0	72	48 - 91	19	48.2	11.2	23.2	46	33 - 63
Cholestech LDX - waived	21	86.0	11.4	13.3	83	60 - 112	32	43.5	6.6	15.1	43	30 - 57
Roche Integra	21	72.0	7.2	10.0	71	50 - 94	21	32.7	5.2	16.0	33	22 - 43
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	22	71.8	4.5	6.3	72	50 - 94	22	35.2	3.9	11.0	35	24 - 46
Vital Diagnostics Envoy 500	11	74.0	15.1	20.4	81	51 - 97	12	48.1	12.7	26.4	48	33 - 63
VITROS 250,350,500,700,750,950	25	55.6	8.5	15.3	56	38 - 73	25	32.7	5.8	17.8	33	22 - 43
All Chemistry Instruments	212	75.2	13.5	18.0	76	52 - 98	227	42.9	10.7	24.8	42	30 - 56
Specimen CH-13							Specimen CH-14					
All Method	205	74.1	11.5	15.5	75	51 - 97	203	82.3	12.8	15.5	85	57 - 108
Calculated-Trig/5												
Alfa Wassermann ACE/NexCT/Alera	37	82.2	5.5	6.7	83	57 - 107	37	86.5	6.0	7.0	87	60 - 113
Beckman AU systems	18	69.7	9.5	13.7	69	48 - 91	18	76.9	8.6	11.2	76	53 - 101
Cholestech LDX - waived	6	-	-	-	61	51 - 97	5	-	-	-	68	57 - 107
Roche Integra	21	79.2	7.5	9.4	78	55 - 104	21	91.4	6.7	7.3	91	64 - 119
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	22	78.5	4.4	5.6	79	54 - 103	22	93.8	5.1	5.5	94	65 - 122
Vital Diagnostics Envoy 500	12	77.3	16.6	21.4	76	54 - 101	12	83.8	18.3	21.9	81	58 - 109
VITROS 250,350,500,700,750,950	25	58.8	7.3	12.5	60	41 - 77	25	64.7	7.5	11.6	67	45 - 85
All Chemistry Instruments	193	73.9	11.5	15.6	75	51 - 97	192	82.1	13.0	15.8	85	57 - 107

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-15						
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	214	57.3	11.4	19.8	57	40 - 75
Calculated-Trig/5						
Alfa Wassermann ACE/NexCT/Alera	37	68.3	3.9	5.7	68	47 - 89
Beckman AU systems	18	56.9	8.1	14.2	57	39 - 74
Cholestech LDX - waived	9	-	-	-	57	40 - 75
Roche Integra	21	53.9	5.3	9.8	53	37 - 71
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	22	54.6	4.5	8.2	54	38 - 71
Vital Diagnostics Envoy 500	12	59.3	15.8	26.7	60	41 - 78
VITROS 250,350,500,700,750,950	25	44.2	6.4	14.5	44	30 - 58
All Chemistry Instruments	199	57.2	11.4	19.9	57	40 - 75

LDL Cholesterol - Direct (mg/dL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	104	62.4	12.3	19.7	62	43 - 82	105	36.8	8.8	23.8	36	25 - 48
Roche LDL Direct												
Roche Integra	10	84.6	4.0	4.7	85	59 - 110	11	51.8	3.9	7.5	53	36 - 68
All Chemistry Instruments	13	85.2	3.7	4.4	85	59 - 111	14	52.0	3.5	6.7	53	36 - 68
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	27	65.7	4.5	6.9	65	45 - 86	27	39.3	3.5	8.9	39	27 - 52

LDL Cholesterol - Direct (mg/dL)

Specimen CH-13							Specimen CH-14					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	105	66.6	10.9	16.4	66	46 - 87	104	75.9	11.0	14.5	77	53 - 99
Roche LDL Direct												
Roche Integra	11	83.5	5.0	6.0	84	58 - 109	11	91.9	4.4	4.8	93	64 - 120
All Chemistry Instruments	14	84.3	4.6	5.5	86	59 - 110	14	92.6	4.3	4.6	94	64 - 121
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	27	70.7	3.9	5.6	71	49 - 92	27	80.3	4.1	5.2	81	56 - 105
Specimen CH-15												
All Method	105	51.8	10.1	19.5	51	36 - 68						
Roche LDL Direct												
Roche Integra	11	67.8	4.7	7.0	69	47 - 89						
All Chemistry Instruments	14	68.4	4.3	6.3	70	47 - 89						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL												
Siemens Automated LDL	27	55.1	3.4	6.1	55	38 - 72						

Cholesterol, HDL (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	334	94.7	10.3	10.8	94	66 - 124	338	66.6	9.1	13.7	67	46 - 87
All Dex-Sulfate 50,000 MW Methods	65	94.8	8.3	8.8	96	66 - 124	66	66.7	6.6	9.9	67	46 - 87
All Direct Methods	191	92.0	11.0	12.0	92	64 - 120	191	65.3	10.6	16.2	64	45 - 85
All Phosphotungstic Acid Methods	21	92.1	5.8	6.3	92	64 - 120	22	69.1	6.4	9.2	71	48 - 90
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE/NexCT/Alera	20	84.3	4.6	5.5	84	59 - 110	20	56.4	2.8	5.0	56	39 - 74
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	22	85.3	4.1	4.8	85	59 - 111	22	56.4	2.9	5.1	56	39 - 74
Beckman AU Direct HDL / LDL												
Beckman AU systems	17	95.4	8.7	9.1	97	66 - 125	16	61.8	5.6	9.0	63	43 - 81
Cholestech LDX												
Cholestech LDX - waived	39	94.5	5.9	6.2	96	66 - 123	38	67.8	4.9	7.2	67	47 - 89
All Chemistry Instruments	46	94.4	5.7	6.1	96	66 - 123	45	68.1	4.8	7.1	67	47 - 89
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	86.4	6.2	7.2	87	60 - 113	15	57.7	4.2	7.3	59	40 - 75
Roche HDL Direct												
Roche Integra	19	99.6	3.9	4.0	99	69 - 130	19	78.3	2.3	3.0	79	54 - 102
All Chemistry Instruments	23	99.1	3.8	3.8	98	69 - 129	23	77.8	2.3	3.0	78	54 - 102
Siemens Automated HDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	39	91.3	3.4	3.8	92	63 - 119	39	72.4	2.2	3.1	73	50 - 95
Vital Diagnostics Direct												
All Chemistry Instruments	11	103.3	11.9	11.6	100	72 - 135	11	68.1	9.9	14.6	68	47 - 89
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	22	109.4	7.6	6.9	108	76 - 143	21	68.1	4.6	6.8	67	47 - 89
All Chemistry Instruments	26	110.4	8.3	7.5	108	77 - 144	25	68.5	4.6	6.7	68	47 - 90

Cholesterol, HDL (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	306	82.0	10.0	12.2	80	57 - 107	307	79.2	11.9	15.0	78	55 - 103
All Dex-Sulfate 50,000 MW Methods	39	90.1	11.3	12.5	91	63 - 118	39	91.6	10.4	11.4	96	64 - 120
All Direct Methods	183	78.8	8.1	10.3	77	55 - 103	188	76.1	10.6	14.0	76	53 - 99
All Phosphotungstic Acid Methods	21	77.5	6.2	8.0	76	54 - 101	22	73.0	12.8	17.5	69	51 - 95
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE/NexCT/Alera	20	75.1	4.2	5.6	76	52 - 98	20	76.6	4.0	5.2	77	53 - 100
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	22	76.0	3.1	4.1	76	53 - 99	22	75.9	3.1	4.1	76	53 - 99
Beckman AU Direct HDL / LDL												
Beckman AU systems	17	84.2	6.6	7.8	85	58 - 110	17	84.1	6.2	7.4	87	58 - 110
Cholestech LDX												
Cholestech LDX - waived	13	98.8	2.1	2.1	100	69 - 129	14	98.9	1.9	1.9	100	69 - 129
All Chemistry Instruments	18	96.9	5.1	5.2	100	67 - 127	18	99.2	1.7	1.7	100	69 - 129
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	77.5	3.6	4.6	77	54 - 101	15	77.9	5.1	6.6	78	54 - 102
Roche HDL Direct												
Roche Integra	18	81.8	3.4	4.1	82	57 - 107	19	72.2	3.3	4.5	71	50 - 94
All Chemistry Instruments	22	81.2	3.4	4.1	81	56 - 106	23	71.6	3.3	4.6	71	50 - 94
Siemens Automated HDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	39	73.8	2.7	3.6	74	51 - 96	39	64.1	3.2	4.9	64	44 - 84
Vital Diagnostics Direct												
All Chemistry Instruments	11	90.3	9.6	10.7	87	63 - 118	11	92.0	9.8	10.6	89	64 - 120
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	21	90.6	5.6	6.2	90	63 - 118	21	88.2	5.6	6.3	88	61 - 115
All Chemistry Instruments	25	91.3	6.0	6.6	90	63 - 119	25	88.8	6.1	6.9	88	62 - 116

Cholesterol, HDL (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	304	75.1	8.7	11.6	75	52 - 98
All Dex-Sulfate 50,000 MW Methods	40	79.3	11.3	14.3	80	55 - 104
All Direct Methods	188	73.1	9.1	12.5	73	51 - 96
All Phosphotungstic Acid Methods	22	76.2	6.2	8.1	75	53 - 100
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE/NexCT/Alera	20	66.6	3.8	5.8	66	46 - 87
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	22	66.0	2.8	4.3	66	46 - 86
Beckman AU Direct HDL / LDL						
Beckman AU systems	17	73.2	6.1	8.3	73	51 - 96
Cholestech LDX						
Cholestech LDX - waived	15	83.3	11.8	14.2	83	58 - 109
All Chemistry Instruments	19	83.2	10.5	12.6	83	58 - 109
Horiba ABX Pentra						
Horiba ABX Pentra 400	15	67.7	3.5	5.2	68	47 - 88
Roche HDL Direct						
Roche Integra	19	81.4	2.6	3.2	81	56 - 106
All Chemistry Instruments	23	80.9	2.7	3.3	81	56 - 106
Siemens Automated HDL						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	39	74.7	2.2	3.0	75	52 - 98
Vital Diagnostics Direct						
All Chemistry Instruments	11	89.5	25.9	28.9	81	62 - 117
VITROS dHDL Slide						
VITROS 250,350,500,700,750,950	21	80.3	5.3	6.6	79	56 - 105
All Chemistry Instruments	25	80.5	5.5	6.8	79	56 - 105

Triglycerides (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	340	156.6	10.9	6.9	154	117 - 196	338	99.3	5.4	5.5	99	74 - 125
All Alfa Wassermann Reagents	51	149.5	4.3	2.8	149	112 - 187	49	100.9	2.7	2.7	101	75 - 127
All Horiba Pentra Reagents	17	152.5	4.8	3.1	154	114 - 191	18	98.7	3.7	3.7	100	74 - 124
All Roche Integra/c111/c501 Reagents	39	150.3	3.9	2.6	151	112 - 188	38	99.3	2.7	2.7	100	74 - 125
All Vital Diagnostics Reagents	22	162.8	9.2	5.6	161	122 - 204	22	102.2	5.7	5.6	103	76 - 128
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	46	149.4	4.4	2.9	149	112 - 187	44	100.8	2.7	2.7	101	75 - 126
Beckman - cartridge												
All Chemistry Instruments	10	159.5	11.2	7.0	157	119 - 200	10	97.2	3.4	3.5	97	72 - 122
Beckman AU												
Beckman AU systems	25	157.2	4.4	2.8	157	117 - 197	24	99.5	2.6	2.6	100	74 - 125
Cholestech LDX												
Cholestech LDX - waived	39	154.7	5.6	3.6	157	116 - 194	38	96.2	3.6	3.7	95	72 - 121
All Chemistry Instruments	47	154.2	5.4	3.5	154	115 - 193	46	95.6	3.7	3.8	95	71 - 120
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	152.5	4.8	3.1	154	114 - 191	18	98.7	3.7	3.7	100	74 - 124
Pointe Scientific												
All Chemistry Instruments	10	155.0	11.3	7.3	159	116 - 194	10	101.1	9.4	9.3	105	75 - 127
Roche Integra												
Roche Integra	32	150.2	3.4	2.3	151	112 - 188	32	99.3	2.5	2.5	99	74 - 125
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	48	153.9	2.6	1.7	154	115 - 193	47	94.9	1.9	2.0	95	71 - 119
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	162.5	5.9	3.6	161	121 - 204	15	101.9	4.0	3.9	102	76 - 128
All Chemistry Instruments	20	161.7	7.2	4.4	161	121 - 203	20	101.9	4.6	4.5	103	76 - 128
VITROS												
VITROS 250,350,500,700,750,950	28	182.4	5.6	3.1	182	136 - 229	28	108.9	4.3	4.0	109	81 - 137
All Chemistry Instruments	34	181.7	5.6	3.1	181	136 - 228	34	108.5	4.1	3.8	108	81 - 136

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	307	188.5	11.8	6.3	186	141 - 236	310	227.2	14.8	6.5	223	170 - 284
All Alfa Wassermann Reagents	50	182.1	5.5	3.0	182	136 - 228	50	217.9	6.4	2.9	218	163 - 273
All Horiba Pentra Reagents	18	183.6	5.2	2.9	185	137 - 230	18	220.1	6.2	2.8	221	165 - 276
All Roche Integra/c111/c501 Reagents	39	182.6	4.8	2.6	183	136 - 229	39	219.3	5.2	2.4	220	164 - 275
All Vital Diagnostics Reagents	22	191.2	9.2	4.8	190	143 - 240	22	227.7	10.2	4.5	226	170 - 285
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	45	182.1	5.6	3.1	182	136 - 228	46	217.4	7.2	3.3	218	163 - 272
Beckman - cartridge												
All Chemistry Instruments	10	190.0	8.6	4.5	189	142 - 238	10	231.3	9.8	4.2	229	173 - 290
Beckman AU												
Beckman AU systems	25	188.2	4.3	2.3	187	141 - 236	25	225.8	4.8	2.1	225	169 - 283
Cholestech LDX												
Cholestech LDX - waived	13	188.8	6.3	3.4	190	141 - 236	14	230.9	8.6	3.7	233	173 - 289
All Chemistry Instruments	18	187.2	6.1	3.3	187	140 - 235	19	230.5	8.5	3.7	229	172 - 289
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	183.6	5.2	2.9	185	137 - 230	18	220.1	6.2	2.8	221	165 - 276
Pointe Scientific												
All Chemistry Instruments	10	190.0	9.3	4.9	195	142 - 238	10	230.0	10.9	4.7	234	172 - 288
Roche Integra												
Roche Integra	32	182.9	4.6	2.5	183	137 - 229	32	219.6	4.9	2.2	220	164 - 275
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	49	184.4	3.2	1.7	184	138 - 231	49	221.1	3.5	1.6	221	165 - 277
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	190.5	4.5	2.4	190	142 - 239	15	227.5	7.2	3.1	226	170 - 285
All Chemistry Instruments	20	190.3	7.1	3.7	190	142 - 238	20	226.9	8.0	3.5	226	170 - 284
VITROS												
VITROS 250,350,500,700,750,950	28	218.0	6.4	2.9	217	163 - 273	28	262.3	6.8	2.6	262	196 - 328
All Chemistry Instruments	34	217.3	6.4	2.9	217	162 - 272	34	261.7	6.9	2.6	262	196 - 328

Triglycerides (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	306	144.7	8.8	6.1	143	108 - 181
All Alfa Wassermann Reagents	50	142.1	4.1	2.9	142	106 - 178
All Horiba Pentra Reagents	18	142.7	4.4	3.1	144	107 - 179
All Roche Integra/c111/c501 Reagents	39	141.3	3.8	2.7	142	105 - 177
All Vital Diagnostics Reagents	21	146.6	8.8	6.0	146	109 - 184
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	46	141.8	4.6	3.3	142	106 - 178
Beckman - cartridge						
All Chemistry Instruments	10	145.3	7.9	5.5	144	108 - 182
Beckman AU						
Beckman AU systems	25	144.5	3.5	2.4	144	108 - 181
Cholestech LDX						
Cholestech LDX - waived	13	138.8	7.0	5.0	141	104 - 174
All Chemistry Instruments	18	138.9	6.4	4.6	140	104 - 174
Horiba ABX Pentra						
Horiba ABX Pentra 400	18	142.7	4.4	3.1	144	107 - 179
Pointe Scientific						
All Chemistry Instruments	10	146.8	7.9	5.4	150	110 - 184
Roche Integra						
Roche Integra	32	141.4	3.1	2.2	142	106 - 177
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	48	140.7	2.8	2.0	140	105 - 176
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	147.2	5.1	3.5	147	110 - 185
All Chemistry Instruments	19	146.7	5.5	3.8	146	110 - 184
VITROS						
VITROS 250,350,500,700,750,950	28	164.9	5.3	3.2	165	123 - 207
All Chemistry Instruments	34	164.1	5.4	3.3	164	123 - 206

Acetaminophen (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	42.04	4.09	9.7	41.0	29.7 - 54.4	5	14.18	3.15	22.2	15.0	4.7 - 23.7
			Specimen CH-13						Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	67.90	5.33	7.9	68.1	51.9 - 83.9	5	92.30	6.48	7.0	92.8	72.8 - 111.8
			Specimen CH-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	39.52	4.33	11.0	39.4	26.5 - 52.6						

Carbamazepine (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	14.56	0.67	4.6	14.3	10.9 - 18.2	9	7.33	0.76	10.3	7.0	5.4 - 9.2
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	14.34	0.22	1.5	14.3	10.7 - 18.0	5	6.94	0.15	2.2	7.0	5.2 - 8.7
			Specimen CH-13						Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	9.03	0.44	4.9	9.0	6.7 - 11.3	9	6.88	0.40	5.8	7.0	5.1 - 8.6
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	9.06	0.17	1.8	9.1	6.7 - 11.4	5	6.98	0.08	1.2	7.0	5.2 - 8.8
			Specimen CH-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	8.01	0.50	6.2	8.0	6.0 - 10.1						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	7.86	0.30	3.8	8.0	5.8 - 9.9						

Digoxin (ng/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				Specimen CH-12					
			<u>SD</u>	<u>CV</u>	<u>Median</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	1.64	0.17	10.1	1.6	1.3 - 2.0	25	0.78	0.13	17.1	0.8	0.5 - 1.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				Specimen CH-14					
			<u>SD</u>	<u>CV</u>	<u>Median</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	1.72	0.19	11.3	1.7	1.3 - 2.1	24	2.00	0.15	7.3	2.0	1.5 - 2.4
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15									
			<u>SD</u>	<u>CV</u>	<u>Median</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	1.26	0.16	12.3	1.2	1.0 - 1.6						

Gentamicin (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				Specimen CH-12					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	1.4	Not graded	2	-	-	-	8.7	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				Specimen CH-14					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	4.4	Not graded	2	-	-	-	4.9	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	6.5	Not graded						

Lithium (mmol/L)

<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	3	-	-	-	0.8	Not graded	3	-	-	-	2.2	Not graded
	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	3	-	-	-	1.2	Not graded	3	-	-	-	1.2	Not graded
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	3	-	-	-	1.7	Not graded						

Phenobarbital (mcg/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	35.48	1.78	5.0	34.5	28.3 - 42.6	5	18.46	1.67	9.0	19.4	14.7 - 22.2
	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	35.30	2.34	6.6	36.9	28.2 - 42.4	5	38.80	2.22	5.7	40.1	31.0 - 46.6
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	26.64	1.52	5.7	26.3	21.3 - 32.0						

Phenytoin (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				Specimen CH-12					
			<u>SD</u>	<u>CV</u>	<u>Median</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	26.40	1.88	7.1	26.3	19.8 - 33.0	14	13.39	0.88	6.6	13.1	10.0 - 16.8
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				Specimen CH-14					
			<u>SD</u>	<u>CV</u>	<u>Median</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	16.97	1.16	6.9	16.8	12.7 - 21.3	14	12.79	0.86	6.8	12.8	9.5 - 16.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	14.92	1.21	8.1	14.9	11.1 - 18.7						

Salicylate (mg/dL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				Specimen CH-12					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	18.1	Not graded	3	-	-	-	9.9	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				Specimen CH-14					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	24.5	Not graded	3	-	-	-	30.7	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	3	-	-	-	17.2	Not graded						

Theophylline (mcg/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	7	31.87	1.70	5.3	31.0	23.9 - 39.9	7	25.24	0.88	3.5	25.3	18.9 - 31.6
	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	7	20.44	1.21	5.9	20.1	15.3 - 25.6	7	12.86	0.26	2.0	13.0	9.6 - 16.1
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	7	22.73	1.11	4.9	22.5	17.0 - 28.5						

Valproic Acid (mcg/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	9	61.03	2.35	3.9	61.9	45.7 - 76.3	9	80.13	6.11	7.6	78.3	60.0 - 100.2
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	61.30	1.15	1.9	61.9	45.9 - 76.7	5	77.44	1.32	1.7	77.9	58.0 - 96.8
	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	9	93.12	3.92	4.2	94.0	69.8 - 116.5	9	115.22	5.49	4.8	114.2	86.4 - 144.1
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	91.82	3.67	4.0	93.5	68.8 - 114.8	5	112.12	2.54	2.3	112.7	84.0 - 140.2
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	86.12	3.73	4.3	85.8	64.5 - 107.7						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	83.52	2.14	2.6	83.7	62.6 - 104.4						

Vancomycin (mcg/mL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	29.66	3.15	10.6	29.5	20.1 - 39.2	5	8.24	0.94	11.5	8.5	5.4 - 11.1
Specimen CH-13							Specimen CH-14					
All Method	5	27.96	2.47	8.8	28.1	20.5 - 35.4	5	33.02	1.61	4.9	33.0	28.1 - 37.9
Specimen CH-15												
All Method	5	18.50	0.83	4.5	18.5	16.0 - 21.0						

Apolipoprotein A1 (mg/dL)

Specimen LP-5							Specimen LP-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	113.4	18.7	16.5	114	79 - 148	7	159.0	42.5	26.7	167	111 - 207

Apolipoprotein B (mg/dL)

Specimen LP-5							Specimen LP-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	43.7	2.0	4.5	43	32 - 55	6	106.2	14.3	13.5	111	79 - 133

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen NB-11				<u>Labs</u>	<u>Mean</u>	Specimen NB-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	17.48	1.52	8.7	17.7	13.9 - 21.0	22	17.50	1.46	8.4	17.5	14.0 - 21.0
No Reagent Required												
All Chemistry Instruments	10	17.75	1.17	6.6	17.9	14.2 - 21.3	11	17.96	1.16	6.5	17.8	14.3 - 21.6
			Specimen NB-13						Specimen NB-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	13.44	1.18	8.8	13.5	10.7 - 16.2	18	19.63	1.38	7.0	19.6	15.7 - 23.6
No Reagent Required												
All Chemistry Instruments	10	13.62	0.90	6.6	13.9	10.8 - 16.4	10	20.36	1.19	5.8	20.5	16.2 - 24.5
			Specimen NB-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	6.91	0.52	7.5	7.1	5.5 - 8.3						
No Reagent Required												
All Chemistry Instruments	10	7.06	0.42	5.9	7.1	5.6 - 8.5						

Bilirubin, Direct (mg/dL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen NB-11				<u>Labs</u>	<u>Mean</u>	Specimen NB-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	8.73	1.21	13.8	8.5	6.3 - 11.2	10	0.65	0.25	37.9	0.7	0.1 - 1.2
			Specimen NB-13						Specimen NB-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	6.40	0.67	10.4	6.4	5.0 - 7.8	10	9.90	1.45	14.6	9.6	7.0 - 12.8
			Specimen NB-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	3.20	0.36	11.3	3.2	2.4 - 4.0						

Blood Gases – pH

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-11				<u>Labs</u>	<u>Mean</u>	Specimen BG-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	7.080	0.015	0.2	7.08	7.04 - 7.12	10	7.376	0.012	0.2	7.38	7.33 - 7.42
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-13				<u>Labs</u>	<u>Mean</u>	Specimen BG-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	7.613	0.016	0.2	7.62	7.57 - 7.66	11	7.441	0.009	0.1	7.44	7.40 - 7.49
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-15				<u>Labs</u>	<u>Mean</u>	Specimen BG-16			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	6.988	0.014	0.2	6.99	6.94 - 7.03						

Blood Gases - pCO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-11				<u>Labs</u>	<u>Mean</u>	Specimen BG-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	64.68	3.07	4.7	64.5	59.5 - 69.9	11	39.93	2.01	5.0	39.4	34.9 - 45.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-13				<u>Labs</u>	<u>Mean</u>	Specimen BG-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	23.97	1.18	4.9	23.9	18.9 - 29.0	11	35.95	1.65	4.6	35.4	30.9 - 41.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-15				<u>Labs</u>	<u>Mean</u>	Specimen BG-16			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	71.13	2.65	3.7	70.5	65.4 - 76.9						

Blood Gases - pO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-11				<u>Labs</u>	<u>Mean</u>	Specimen BG-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	60.75	16.29	26.8	61.0	11.8 - 109.7	11	179.62	14.36	8.0	177.0	136.5 - 222.7
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-13				<u>Labs</u>	<u>Mean</u>	Specimen BG-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	88.81	8.27	9.3	88.0	63.9 - 113.7	11	101.84	8.94	8.8	99.0	75.0 - 128.7
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-15				<u>Labs</u>	<u>Mean</u>	Specimen BG-16			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	121.15	7.21	5.9	120.0	99.5 - 142.8						

Blood Gases – Ionized Calcium (mmol/L)

<u>Method</u>	Specimen BG-11						Specimen BG-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	1.780	0.030	1.7	1.78	1.69 - 1.87	5	1.370	0.070	5.1	1.34	1.16 - 1.58

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: 127.3 mmol/L, 92.2 mmol/L, 103.1 mmol/L, 99.3 mmol/L, and 133.4 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-11				Specimen BG-12					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	5.6	Not graded	2	-	-	-	3.8	Not graded
			Specimen BG-13				Specimen BG-14					
All Method	2	-	-	-	4.8	Not graded	2	-	-	-	4.2	Not graded
			Specimen BG-15									
All Method	2	-	-	-	6.2	Not graded						

Blood Gases - Sodium (mmol/L)

<u>Method</u>	Specimen BG-11						Specimen BG-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	2	-	-	-	151	Not graded	2	-	-	-	131	Not graded
	Specimen BG-13						Specimen BG-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	2	-	-	-	141	Not graded	2	-	-	-	136	Not graded
	Specimen BG-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	154	Not graded						

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	278	5.86	0.26	4.4	5.9	5.2 - 6.5	278	8.02	0.30	3.8	8.0	7.2 - 8.9
All Hemoglobin A1c Methods	276	5.86	0.26	4.4	5.9	5.2 - 6.5	275	8.02	0.30	3.7	8.0	7.2 - 8.9
Bayer DCA 2000/+	20	5.98	0.25	4.1	6.0	5.3 - 6.6	20	8.19	0.32	3.9	8.2	7.3 - 9.1
Beckman AU A1c	12	6.06	0.60	9.8	5.8	5.4 - 6.7	12	8.28	0.62	7.5	8.0	7.4 - 9.2
Bio-Rad D-10 HbA1C	10	5.82	0.24	4.2	5.8	5.2 - 6.5	10	7.77	0.22	2.8	7.8	6.9 - 8.6
Roche Integra A1C	13	5.69	0.18	3.2	5.6	5.1 - 6.3	13	7.71	0.24	3.2	7.7	6.9 - 8.5
Siemens DCA Vantage	117	5.91	0.17	2.9	5.9	5.3 - 6.5	117	8.06	0.22	2.8	8.1	7.2 - 8.9
Siemens Dimension HB1C	40	5.77	0.28	4.8	5.8	5.1 - 6.4	39	8.01	0.27	3.3	8.0	7.2 - 8.9
TOSOH G7	10	6.19	0.21	3.4	6.2	5.5 - 6.9	10	8.29	0.17	2.0	8.3	7.4 - 9.2

B-Type Natriuretic Peptide (BNP)

<u>Method</u>	Specimen BNP-5						Specimen BNP-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	27	1462.9	257.2	17.6	1435	691 - 2235	27	61.5	8.0	12.9	62	37 - 86
Biosite Triage	25	1444.8	219.2	15.2	1410	787 - 2103	26	61.4	8.1	13.2	62	37 - 86

NT-proBNP

<u>Method</u>	Specimen BNP-5						Specimen BNP-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	8	5485.3	3144.4	57.3	5011	0 - 11775	6	5647.5	2793.4	49.5	7337	60 - 11235

Afinion Glycohemoglobin (percent)

<u>Method</u>	Specimen AFN-5						Specimen AFN-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>
Axis-Shield Afinion AS100	34	7.76	0.13	1.7	7.8	6.9 - 8.6	34	6.15	0.11	1.8	6.2	5.5 - 6.8

BNP (pg/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	Specimen TCK-11						Specimen TCK-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>
Biosite Triage	30	1326.0	198.3	15.0	1345	731 - 1921	30	57.4	6.8	11.9	56	36 - 78
<u>Method</u>	Specimen TCK-13						Specimen TCK-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>
Biosite Triage	30	666.1	108.0	16.2	650	342 - 991	28	2042.9	279.1	13.7	2015	1205 - 2881
<u>Method</u>	Specimen TCK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	30	374.5	49.8	13.3	363	225 - 524						

CK-MB (ng/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-11				Specimen TCK-12					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	27	21.9	4.1	18.5	21	9 - 35	27	2.7	0.6	21.7	3	0 - 5
			Specimen TCK-13				Specimen TCK-14					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	27	12.1	2.1	17.0	12	5 - 19	25	38.5	6.5	16.9	38	19 - 59
			Specimen TCK-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	27	7.7	1.1	14.6	8	4 - 12						

D-Dimer (ng/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-11				Specimen TCK-12					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	25	1070.0	109.1	10.2	1070	748 - 1391	25	544.7	87.2	16.0	535	381 - 709
			Specimen TCK-13				Specimen TCK-14					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	25	825.6	65.8	8.0	816	577 - 1074	25	1514.0	162.1	10.7	1520	1059 - 1969
			Specimen TCK-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	25	695.2	70.9	10.2	688	486 - 904						

Myoglobin (ng/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-11				Specimen TCK-12					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	19	287.1	37.2	12.9	278	200 - 374	20	63.2	10.2	16.1	62	44 - 83
			Specimen TCK-13				Specimen TCK-14					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	20	193.4	36.7	19.0	182	135 - 252	19	427.6	57.0	13.3	414	299 - 556
			Specimen TCK-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	20	130.8	17.5	13.4	126	91 - 171						

Troponin I (ng/mL) – Biosite Triage Cardiac Panel

Specimen TCK-11							Specimen TCK-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	33	2.100	0.539	25.7	2.02	1.02 - 3.18	32	0.050	0.000	0.0	0.05	0.03 - 0.07
Specimen TCK-13							Specimen TCK-14					
Biosite Triage	33	0.686	0.181	26.5	0.66	0.32 - 1.05	32	5.800	1.049	18.1	5.85	3.70 - 7.90
Specimen TCK-15												
Biosite Triage	33	0.263	0.066	25.0	0.25	0.13 - 0.40						

C-Peptide (ng/mL)

Specimen CIP-5							Specimen CIP-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	4.413	2.697	61.1	3.70	0.00 - 9.81	8	2.421	1.448	59.8	2.05	0.00 - 5.32

Insulin (μU/mL)

Specimen CIP-5							Specimen CIP-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	54.98	13.77	25.0	59.6	27.4 - 82.6	13	34.77	8.90	25.6	38.8	16.9 - 52.6

Parathyroid hormone (pg/mL)

Specimen CIP-5							Specimen CIP-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	33	54.1	12.8	23.6	49	28 - 80	33	41.5	10.4	25.0	38	20 - 63

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

Specimen CIP-5							Specimen CIP-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	51	33.81	11.37	33.6	32.9	11.0 - 56.6	51	26.86	8.91	33.2	26.2	9.0 - 44.7
Abbott Architect	13	27.72	3.10	11.2	27.1	21.5 - 34.0	13	22.04	2.56	11.6	21.7	16.9 - 27.2

CK-MB (ng/mL) Quantitative

<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	23	46.07	13.69	29.7	48.0	4.9 - 87.2	23	5.80	2.05	35.3	6.1	0.0 - 12.0
<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	23	86.03	27.46	31.9	88.9	3.6 - 168.5	23	25.09	8.32	33.2	25.5	0.1 - 50.1
<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	23	14.83	4.45	30.0	15.8	1.4 - 28.2						

CK-MB (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12		Specimen CK-13	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	1	1	-	1	-
LifeSign MI	-	1	1	-	1	-
<u>Method</u>	Specimen CK-14		Specimen CK-15			
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>		
ALL METHODS	1	-	1	-		
LifeSign MI	1	-	1	-		

Myoglobin (Quantitative)

<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	13	281.81	49.60	17.6	299.0	197.2 - 366.4	13	49.86	10.22	20.5	47.0	34.9 - 64.9

Myoglobin (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	1	-	1
LifeSign MI	-	1	-	1

Troponin I (ng/mL) Quantitative

<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	22	8.260	13.811	167.2	2.37	0.00 - 35.89	20	0.065	0.102	157.3	0.04	0.00 - 0.27

Troponin I (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	1	1	-
LifeSign MI	-	1	1	-

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	204	13.528	1.951	14.4	13.17	9.46 - 17.59	209	6.807	0.961	14.1	6.70	4.76 - 8.85
All Roche Elecsys/Cobas Instruments	14	15.346	1.275	8.3	15.29	10.74 - 19.95	14	7.863	0.648	8.2	7.78	5.50 - 10.23
All TOSOH Instruments	50	11.787	0.553	4.7	11.83	8.25 - 15.33	50	6.002	0.269	4.5	6.00	4.20 - 7.81
Abbott Architect	16	12.394	0.691	5.6	12.35	8.67 - 16.12	16	6.089	0.305	5.0	6.02	4.26 - 7.92
Beckman ACCESS / 2 / Dxl	17	15.501	1.012	6.5	15.50	10.85 - 20.16	17	7.674	0.600	7.8	7.59	5.37 - 9.98
Beckman ACCESS Hybritech PSA	25	15.248	0.814	5.3	15.21	10.67 - 19.83	25	7.663	0.384	5.0	7.64	5.36 - 9.97
bioMerieux Vidas, Mini Vidas	36	14.531	0.822	5.7	14.47	10.17 - 18.90	36	7.363	0.435	5.9	7.32	5.15 - 9.58
Qualigen FastPack	10	19.670	2.170	11.0	20.20	13.76 - 25.58	10	7.530	1.445	19.2	8.00	5.27 - 9.79
Siemens Dimension TPSA	28	11.951	0.497	4.2	11.90	8.36 - 15.54	28	6.230	0.279	4.5	6.14	4.36 - 8.10
TOSOH AIA	15	11.673	0.451	3.9	11.56	8.17 - 15.18	15	5.965	0.334	5.6	5.95	4.17 - 7.76
TOSOH ST AIA	35	11.836	0.590	5.0	11.87	8.28 - 15.39	35	6.018	0.241	4.0	6.00	4.21 - 7.83

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	9	2.753	0.223	8.1	2.80	2.08 - 3.43	9	1.919	0.175	9.1	2.00	1.39 - 2.45
TOSOH ST AIA	7	2.733	0.253	9.2	2.74	1.97 - 3.50	7	1.893	0.193	10.2	1.77	1.31 - 2.48

CA 125 (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	12	117.4	8.0	6.8	161	82 - 153	12	84.3	5.4	6.4	116	58 - 110
All TOSOH Instruments	14	176.8	10.8	6.1	177	123 - 230	14	128.0	9.1	7.1	129	89 - 167

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	111.6	27.2	24.3	122	30 - 194	10	85.1	20.3	23.8	94	24 - 146

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	9	50.2	8.5	16.8	50	24 - 76	9	36.1	6.2	17.3	36	17 - 55

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	20	118.4	12.4	10.5	116	81 - 156	21	91.3	14.3	15.6	88	48 - 135
All TOSOH Instruments	19	118.9	12.6	10.6	116	81 - 157	19	90.0	12.3	13.7	88	52 - 128
TOSOH ST AIA	13	118.5	12.3	10.4	116	81 - 156	13	87.8	7.6	8.7	88	64 - 111

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	12	24.28	3.18	13.1	36.4	16.9 - 31.6	12	18.01	2.38	13.2	27.0	12.6 - 23.5
All TOSOH Instruments	20	37.95	2.25	5.9	37.6	26.5 - 49.4	20	28.20	1.39	4.9	28.1	19.7 - 36.7
TOSOH ST AIA	14	38.31	2.48	6.5	38.0	26.8 - 49.8	14	28.49	1.44	5.0	28.2	19.9 - 37.1

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	16	13.940	2.643	19.0	14.23	9.75 - 18.13	16	9.114	1.643	18.0	9.45	6.38 - 11.85

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	55	14.085	1.670	11.9	13.80	9.85 - 18.32	55	9.449	1.045	11.1	9.25	6.61 - 12.29
All TOSOH Instruments	17	12.518	0.659	5.3	12.58	8.76 - 16.28	17	8.469	0.379	4.5	8.46	5.92 - 11.02
TOSOH ST AIA	11	12.476	0.684	5.5	12.42	8.73 - 16.22	11	8.452	0.383	4.5	8.34	5.91 - 10.99

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	35.52	6.80	19.1	32.9	21.9 - 49.2	5	21.30	3.54	16.6	22.0	14.2 - 28.4

CEA (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	10	15.09	1.40	9.3	16.8	10.5 - 19.7	10	7.82	0.46	5.9	8.4	5.4 - 10.2

Estradiol (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	43	276.6	99.9	36.1	234	76 - 477	43	163.3	63.5	38.9	134	36 - 291
All TOSOH Instruments	12	428.2	24.5	5.7	428	379 - 478	12	259.5	17.4	6.7	260	224 - 295

Ferritin (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	67	171.7	21.0	12.2	141	120 - 224	67	88.8	11.2	12.6	74	62 - 116
All Immulite Instruments	10	169.3	8.4	5.0	172	118 - 221	10	88.7	4.1	4.7	88	62 - 116
All TOSOH Instruments	31	130.5	5.3	4.1	132	91 - 170	31	66.5	2.9	4.4	66	46 - 87
Beckman ACCESS / 2 / Dxl	35	133.9	9.6	7.2	133	93 - 175	34	69.4	3.9	5.6	70	48 - 91
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	16	170.7	5.2	3.1	171	119 - 222	16	90.1	2.1	2.3	90	63 - 118
TOSOH AIA	13	127.7	5.0	3.9	127	89 - 166	14	65.1	2.7	4.1	66	45 - 85
TOSOH ST AIA	18	132.6	4.7	3.5	134	92 - 173	17	67.5	2.7	4.0	67	47 - 88

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	28	18.64	5.75	30.9	11.9	13.0 - 24.3	31	2.61	0.62	23.9	2.7	1.7 - 3.6
All TOSOH Instruments	14	12.79	2.42	18.9	13.1	8.9 - 16.7	12	2.84	0.57	20.0	2.9	1.9 - 3.8
Beckman ACCESS / 2 / Dxl	29	10.12	1.86	18.3	9.9	7.0 - 13.2	33	2.63	0.42	16.0	2.6	1.7 - 3.6
TOSOH AIA	11	13.07	2.53	19.4	13.1	9.1 - 17.0	10	2.97	0.52	17.4	3.0	2.0 - 3.9

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	53	33.10	3.91	11.8	33.5	24.8 - 41.4	52	21.62	2.57	11.9	21.9	16.2 - 27.1
All TOSOH Instruments	12	35.50	1.74	4.9	35.2	26.6 - 44.4	12	24.10	1.21	5.0	23.9	18.0 - 30.2
Beckman ACCESS / 2 / Dxl	14	34.94	2.32	6.6	35.3	26.2 - 43.7	14	22.45	1.68	7.5	22.4	16.8 - 28.1

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	15	21.0	5.3	25.3	22	16 - 26	15	14.1	2.4	16.7	14	11 - 17

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	46	29.26	5.90	20.2	29.0	17.4 - 41.1	46	15.91	3.58	22.5	15.5	8.7 - 23.1
Beckman ACCESS / 2 / Dxl	12	22.12	0.98	4.4	22.3	20.1 - 24.1	12	11.96	0.83	6.9	11.9	10.3 - 13.7

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	29	25.67	4.05	15.8	26.6	17.9 - 33.4	29	15.42	2.39	15.5	15.8	10.7 - 20.1
All TOSOH Instruments	11	26.23	1.83	7.0	26.7	18.3 - 34.1	11	15.99	0.93	5.8	15.9	11.1 - 20.8

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	34	10.54	1.30	12.3	10.2	6.9 - 14.2	34	6.62	0.74	11.1	6.5	3.0 - 10.3
Beckman ACCESS / 2 / Dxl	10	10.49	0.62	5.9	10.6	6.8 - 14.1	10	6.67	0.51	7.7	6.5	3.0 - 10.3

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	94	668.5	99.8	14.9	677	467 - 870	95	425.4	74.8	17.6	420	297 - 554
All Immulite Instruments	10	717.2	90.2	12.6	732	502 - 933	10	492.1	41.8	8.5	499	344 - 640
All TOSOH Instruments	20	772.6	49.2	6.4	776	540 - 1005	20	472.9	37.5	7.9	473	331 - 615
Beckman ACCESS / 2 / Dxl	28	576.6	30.9	5.4	574	403 - 750	28	355.7	18.6	5.2	352	248 - 463
TOSOH ST AIA	12	769.0	48.1	6.3	764	538 - 1000	12	467.7	40.7	8.7	473	327 - 608

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	12	179.9	5.1	2.8	180	167 - 193	12	124.8	4.1	3.3	125	116 - 134

Vitamin B₁₂ (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	101	1033.1	124.3	12.0	1016	723 - 1344	100	716.5	79.8	11.1	701	501 - 932
All Roche Elecsys/Cobas Instruments	10	1030.8	142.0	13.8	993	721 - 1341	10	786.1	120.3	15.3	772	550 - 1022
All TOSOH Instruments	20	1028.5	131.0	12.7	1017	719 - 1337	20	791.7	80.8	10.2	782	554 - 1030
Abbott Architect	12	1036.7	114.1	11.0	1036	725 - 1348	12	712.2	49.6	7.0	705	498 - 926
Beckman ACCESS / 2 / Dxl	39	1057.2	122.4	11.6	1016	740 - 1375	40	667.6	67.2	10.1	650	467 - 868
TOSOH AIA	18	1016.6	132.9	13.1	1009	711 - 1322	18	789.8	84.8	10.7	775	552 - 1027

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-11						Specimen ETH-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	7	72.0	6.9	9.6	70	54 - 90	7	107.1	11.8	11.0	109	80 - 134
Roche Integra	5	68.4	1.8	2.7	69	51 - 86	5	124.8	36.5	29.2	108	93 - 156

<u>Method</u>	Specimen ETH-13						Specimen ETH-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	7	324.1	62.2	19.2	345	243 - 406	7	108.7	11.9	10.9	109	81 - 136
Roche Integra	5	343.4	4.4	1.3	342	257 - 430	5	108.4	1.5	1.4	108	81 - 136

<u>Method</u>	Specimen ETH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	7	131.4	15.1	11.5	129	98 - 165						
Roche Integra	5	129.4	0.9	0.7	129	97 - 162						

Acetone

<u>Method</u>	Specimen ETH-11					Specimen ETH-12				
	<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>
Bayer Acetest	8	-	8	-	-	8	8	-	-	-
	Specimen ETH-13					Specimen ETH-14				
	<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>
Bayer Acetest	8	8	-	-	-	8	7	1	-	-
	Specimen ETH-15									
	<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>
Bayer Acetest	8	-	3	5	-					

Anti-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	21	7.7	9.6	125.3	1	0 - 27	21	1666.7	595.0	35.7	1586	476 - 2857

Anti-Microsomal 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	23	3.3	4.7	141.1	0	0 - 13	23	45.2	7.8	17.3	44	29 - 61

Urine Drug Screen

Acetaminophen

<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

<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	114	-	114	114	-	114
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	-	1
Bio-Rad TOX/See	2	-	2	2	-	2
BioSite Diagnostics Triage	2	-	2	2	-	2
BMC QuickTox Drug Screen	23	-	23	23	-	23
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	5	-	5	5	-	5
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	3	-	3	3	-	3
Instant Technologies i Cassette	5	-	5	5	-	5
Instant Technologies i Screen	7	-	7	7	-	7
Instant Technologies iCup	8	-	8	8	-	8
Integrated E-Z Split Key Cup / II	2	-	2	2	-	2
Lin-Zhi International	13	-	13	13	-	13
MEDTOX Diagnostics	7	-	7	7	-	7
Microgenics DRI	8	-	8	8	-	8
Mindray BS-200	2	-	2	2	-	2
Noble Medical Inc.	3	-	3	3	-	3
Redwood Toxicology Reditest	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2

Barbiturates

<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	83	-	83	83	-	83
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BioSite Diagnostics Triage	2	-	2	2	-	2
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	4	-	4	4	-	4
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	2	-	2	2	-	2
Instant Technologies i Cassette	5	-	5	5	-	5
Instant Technologies i Screen	7	-	7	7	-	7
Instant Technologies iCup	7	-	7	7	-	7
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	13	-	13	13	-	13
MEDTOX Diagnostics	7	-	7	7	-	7
Microgenics DRI	6	-	6	6	-	6
Mindray BS-200	2	-	2	2	-	2
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2

Benzodiazepines

<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	89	1	88	89	86	3
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	1	-
Bio-Rad TOX/See	1	-	1	1	1	-
BioSite Diagnostics Triage	2	-	2	2	2	-
BMC QuickTox Drug Screen	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Dade Behring EMIT II Plus	5	-	5	5	5	-
Innovacon Multi-CLIN Drug Screen	1	-	1	1	1	-
Innovacon Multi-Drug One Step	2	-	2	2	2	-
Instant Technologies i Cassette	5	-	5	5	5	-
Instant Technologies i Screen	7	-	7	7	7	-
Instant Technologies iCup	8	-	8	8	8	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
Lin-Zhi International	13	-	13	13	13	-
MEDTOX Diagnostics	7	-	7	7	6	1
Microgenics DRI	8	-	8	8	8	-
Mindray BS-200	2	-	2	2	2	-
Noble Medical Inc.	1	-	1	1	1	-
Redwood Toxicology Reditest	1	-	1	1	1	-
Roche Integra	2	-	2	2	2	-

Buprenorphine

<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	22	-	22	22	-	22
Dade Behring EMIT II Plus	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	6	-	6	6	-	6
MEDTOX Diagnostics	2	-	2	2	-	2
Microgenics CEDIA	5	-	5	5	-	5
Mindray BS-200	2	-	2	2	-	2

Cannabinoids (THC)

<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	116	-	116	116	-	116
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BioSite Diagnostics Triage	2	-	2	2	-	2
BMC QuickTox Drug Screen	23	-	23	23	-	23
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	5	-	5	5	-	5
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	4	-	4	4	-	4
InstaCheck Drug Screen	2	-	2	2	-	2
Instant Technologies i Cassette	5	-	5	5	-	5
Instant Technologies i Screen	7	-	7	7	-	7
Instant Technologies iCup	8	-	8	8	-	8
Integrated E-Z Split Key Cup / II	3	-	3	3	-	3
Lin-Zhi International	13	-	13	13	-	13
MEDTOX Diagnostics	7	-	7	7	-	7
Microgenics DRI	7	-	7	7	-	7
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	3	-	3	3	-	3
Redwood Toxicology Reditest	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2

Cocaine Metabolites

<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	118	117	1	118	1	117
Bayer ADVIA 1200	1	1	-	1	-	1
Bio-Rad TOX/See	2	2	-	2	-	2
BioSite Diagnostics Triage	2	2	-	2	-	2
BMC QuickTox Drug Screen	23	23	-	23	-	23
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Dade Behring EMIT II Plus	5	5	-	5	-	5
Innovacon Multi-CLIN Drug Screen	1	1	-	1	-	1
Innovacon Multi-Drug One Step	3	3	-	3	-	3
InstaCheck Drug Screen	2	2	-	2	-	2
Instant Technologies i Cassette	5	5	-	5	-	5
Instant Technologies i Screen	7	7	-	7	-	7
Instant Technologies iCup	8	8	-	8	-	8
Integrated E-Z Split Key Cup / II	3	3	-	3	-	3
Lin-Zhi International	13	13	-	13	-	13
MEDTOX Diagnostics	7	7	-	7	-	7
Microgenics DRI	8	8	-	8	-	8
Mindray BS-200	2	2	-	2	-	2
Noble Medical Inc.	3	3	-	3	-	3
Redwood Toxicology Reditest	1	1	-	1	-	1
Roche Integra	2	2	-	2	-	2

EDDP

<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	3	-	3	3	-	3
Lin-Zhi International	2	-	2	2	-	2
Microgenics DRI	1	-	1	1	-	1

Ethanol (Alcohol)

<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	22	-	22	22	20	2
Dade Behring EMIT II Plus	3	-	3	3	3	-
Lin-Zhi International	12	-	12	12	12	-
Microgenics DRI	2	-	2	2	2	-
Mindray BS-200	1	-	1	1	1	-
Roche Integra	1	-	1	1	-	1
Siemens (Dade) Dimension	1	-	1	1	1	-

MDMA

<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	47	-	47	47	-	47
Bio-Rad TOX/See	2	-	2	2	-	2
Dade Behring EMIT II Plus	2	-	2	2	-	2
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Instant Technologies i Cassette	3	-	3	3	-	3
Instant Technologies iCup	7	-	7	7	-	7
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	12	-	12	12	-	12
MEDTOX Diagnostics	1	-	1	1	-	1
Microgenics DRI	2	-	2	2	-	2
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1

Methadone

<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
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	-	1
Bio-Rad TOX/See	2	-	2	2	-	2
BioSite Diagnostics Triage	1	-	1	1	-	1
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	4	-	4	4	-	4
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	2	-	2	2	-	2
Instant Technologies i Cassette	2	-	2	2	-	2
Instant Technologies i Screen	2	-	2	2	-	2
Instant Technologies iCup	8	-	8	8	-	8
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	10	-	10	10	-	10
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics DRI	7	-	7	7	-	7
Mindray BS-200	2	-	2	2	-	2
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2

Methamphetamines

<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	74	-	74	74	-	74
Alfa Scientific Instant-View	1	-	1	1	-	1
Bio-Rad TOX/See	2	-	2	2	-	2
BMC QuickTox Drug Screen	23	-	23	23	-	23
Dade Behring EMIT II Plus	1	-	1	1	-	1
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	3	-	3	3	-	3
InstaCheck Drug Screen	2	-	2	2	-	2
Instant Technologies i Cassette	2	-	2	2	-	2
Instant Technologies i Screen	7	-	7	7	-	7
Instant Technologies iCup	8	-	8	8	-	8
Integrated E-Z Split Key Cup / II	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1

Methaqualone

<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
Dade Behring EMIT II Plus	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1

Morphine

<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
Integrated E-Z Split Key Cup / II	1	1	-	1	-	1
Lin-Zhi International	1	1	-	1	-	1

Opiates

<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	117	113	4	117	-	117
Bayer ADVIA 1200	1	1	-	1	-	1
Bio-Rad TOX/See	2	2	-	2	-	2
BioSite Diagnostics Triage	2	2	-	2	-	2
BMC QuickTox Drug Screen	23	23	-	23	-	23
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Dade Behring EMIT II Plus	5	5	-	5	-	5
Innovacon Multi-CLIN Drug Screen	1	1	-	1	-	1
Innovacon Multi-Drug One Step	3	3	-	3	-	3
InstaCheck Drug Screen	2	2	-	2	-	2
Instant Technologies i Cassette	5	5	-	5	-	5
Instant Technologies i Screen	7	7	-	7	-	7
Instant Technologies iCup	8	6	2	8	-	8
Integrated E-Z Split Key Cup / II	2	2	-	2	-	2
Lin-Zhi International	13	13	-	13	-	13
MEDTOX Diagnostics	7	7	-	7	-	7
Microgenics DRI	8	8	-	8	-	8
Mindray BS-200	2	2	-	2	-	2
Noble Medical Inc.	3	3	-	3	-	3
Redwood Toxicology Reditest	1	1	-	1	-	1
Roche Integra	2	2	-	2	-	2

Oxycodone

<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	65	5	60	64	-	64
Alfa Scientific Instant-View	1	-	1	2	-	2
Bio-Rad TOX/See	2	-	2	1	-	1
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
Innovacon Multi-CLIN Drug Screen	1	1	-	1	-	1
Innovacon Multi-Drug One Step	1	-	1	4	-	4
Instant Technologies i Cassette	4	-	4	8	-	8
Instant Technologies iCup	8	1	7	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	11	-	11
Lin-Zhi International	11	-	11	4	-	4
MEDTOX Diagnostics	4	-	4	10	-	10
Microgenics DRI	10	-	10	2	-	2
Mindray BS-200	2	-	2	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	2	-	2
Roche Integra	2	-	2	64	-	64

Phencyclidine (PCP)

<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	68	-	68	68	68	-
Alfa Scientific Instant-View	1	-	1	1	1	-
Bayer ADVIA 1200	1	-	1	1	1	-
Bio-Rad TOX/See	2	-	2	2	2	-
BioSite Diagnostics Triage	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Dade Behring EMIT II Plus	4	-	4	4	4	-
Innovacon Multi-CLIN Drug Screen	1	-	1	1	1	-
Innovacon Multi-Drug One Step	3	-	3	3	3	-
InstaCheck Drug Screen	2	-	2	2	2	-
Instant Technologies i Cassette	5	-	5	5	5	-
Instant Technologies i Screen	7	-	7	7	7	-
Instant Technologies iCup	2	-	2	2	2	-
Integrated E-Z Split Key Cup / II	2	-	2	2	2	-
Lin-Zhi International	2	-	2	2	2	-
MEDTOX Diagnostics	7	-	7	7	7	-
Microgenics DRI	4	-	4	4	4	-
Mindray BS-200	2	-	2	2	2	-
Noble Medical Inc.	3	-	3	3	3	-
Redwood Toxicology Reditest	1	-	1	1	1	-
Roche Integra	1	-	1	1	1	-

Propoxyphene

<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	22	-	22	22	-	22
Bayer ADVIA 1200	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	4	-	4	4	-	4
Instant Technologies i Cassette	4	-	4	4	-	4
Lin-Zhi International	2	-	2	2	-	2
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics DRI	3	-	3	3	-	3
Mindray BS-200	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1

Tricyclic Antidepressants

<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	25	21	4	25	-	25
Bio-Rad TOX/See	2	2	-	2	-	2
BioSite Diagnostics Triage	2	2	-	2	-	2
Innovacon Multi-CLIN Drug Screen	1	1	-	1	-	1
Instant Technologies i Cassette	3	3	-	3	-	3
Instant Technologies i Screen	1	1	-	1	-	1
Instant Technologies iCup	2	1	1	2	-	2
MEDTOX Diagnostics	4	3	1	4	-	4
Noble Medical Inc.	1	1	-	1	-	1

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	10	67.8	8.2	12.2	70	57 - 78	10	328.1	15.6	4.8	331	311 - 345
Siemens Dimension/AR/ES/RxL/Xpand/EXL	5	72.2	3.3	4.5	71	62 - 83	5	338.0	9.1	2.7	341	321 - 355

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	393	91.6	16.3	17.8	89	73 - 110	390	213.0	41.0	19.2	207	170 - 256
All Arkray Methods	19	112.1	8.0	7.2	112	89 - 135	20	343.6	35.9	10.5	340	274 - 413
All Hemocue Methods	40	118.5	5.0	4.3	119	94 - 143	40	221.4	5.9	2.7	220	177 - 266
All Lifescan Methods	49	104.8	5.1	4.9	105	83 - 126	49	254.4	15.0	5.9	254	203 - 306
Abbott FreeStyle Lite	19	86.3	3.7	4.3	87	69 - 104	19	203.4	10.2	5.0	204	162 - 245
Arkray Assure / Pro	13	114.8	7.3	6.4	116	91 - 138	13	345.7	42.5	12.3	339	276 - 415
Bayer Contour	79	73.5	4.0	5.5	73	58 - 89	79	169.3	7.8	4.6	168	135 - 204
HemoCue 201	39	118.3	5.1	4.3	118	94 - 142	39	221.5	6.0	2.7	220	177 - 266
Home Diagnostics TrueTrack / TrueBalance	21	262.9	13.7	5.2	263	210 - 316	21	531.6	25.7	4.8	533	425 - 638
Lifescan One Touch Ultra/2/Mini	38	104.1	4.4	4.2	105	83 - 125	38	254.5	8.2	3.2	255	203 - 306
LifeScan SureStep Flex	12	99.9	12.2	12.2	104	79 - 120	12	250.9	44.3	17.7	256	200 - 302
Medisense PreciS. Xtra/Optium	10	103.1	4.6	4.4	105	82 - 124	10	262.2	17.9	6.8	259	209 - 315
Medisense Precision XceedPro	11	103.9	11.3	10.9	103	83 - 125	11	246.5	17.2	7.0	250	197 - 296
NOVA Biomedical StatStrip	14	83.9	4.3	5.2	84	67 - 101	14	197.1	12.0	6.1	197	157 - 237
PSS Quintet Glucose Monitoring System	14	94.1	8.5	9.1	91	75 - 113	14	230.4	17.9	7.8	225	184 - 277
Roche Accu-Chek Advantage/Comp/GTS	37	77.6	5.2	6.7	77	62 - 94	37	196.7	7.0	3.6	198	157 - 237
Roche Accu-Chek Aviva	38	87.9	3.8	4.4	87	70 - 106	38	202.0	7.3	3.6	201	161 - 243
Roche Accu-Chek Inform	18	83.6	10.1	12.1	86	66 - 101	18	200.1	14.2	7.1	199	160 - 241

Whole Blood Glucose (mg/dL)

Specimen WBG-13							Specimen WBG-14					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	309.6	22.6	7.3	314	247 - 372	21	62.5	5.4	8.6	61	49 - 75
All Lifescan Methods	13	319.5	10.8	3.4	321	255 - 384	13	62.5	4.0	6.4	62	49 - 75
Home Diagnostics TrueTrack / TrueBalance	-	-	-	-	-	-	2	-	-	-	168	Not graded
Lifescan One Touch Ultra/2/Mini	13	319.5	10.8	3.4	321	255 - 384	13	62.5	4.0	6.4	62	49 - 75
PSS Quintet Glucose Monitoring System	1	-	-	-	278	247 - 372	1	-	-	-	57	49 - 75
Roche Accu-Chek Aviva	1	-	-	-	264	247 - 372	1	-	-	-	64	49 - 75
Roche Accu-Chek Inform	1	-	-	-	268	247 - 372	1	-	-	-	61	49 - 75
Specimen WBG-15												
All Method	21	172.9	13.2	7.6	174	138 - 208						
All Lifescan Methods	13	176.7	6.2	3.5	174	141 - 213						
Home Diagnostics TrueTrack / TrueBalance	2	-	-	-	388	Not graded						
Lifescan One Touch Ultra/2/Mini	13	176.7	6.2	3.5	174	141 - 213						
PSS Quintet Glucose Monitoring System	1	-	-	-	148	138 - 208						
Roche Accu-Chek Aviva	1	-	-	-	153	138 - 208						
Roche Accu-Chek Inform	1	-	-	-	150	138 - 208						

Fructosamine (mmol/L)

<u>Method</u>	Specimen FR-5						Specimen FR-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	0.284	0.203	71.5	0.22	0.00 - 0.74	5	1.506	0.285	18.9	1.5	1.05 - 1.96

Fructosamine (μmol/L)

<u>Method</u>	Specimen FR-5						Specimen FR-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	81.5	16.8	20.6	77	36 - 127	6	883.7	253.5	28.7	790	618 - 1149

d-Dimer (ng/mL)

<u>Method</u>	Specimen DMR-3						Specimen DMR-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2274.0	509.3	22.4	2217	1591 - 2957	5	1169.0	492.9	42.2	1429	818 - 1520

Medical Laboratory Evaluation
 25 Massachusetts Ave NW Ste 700
 Washington, DC 20001-7401
 800-338-2746 • 202-261-4500 • Fax: 202-835-0440
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