

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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

Chemistry
MLE-M2

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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)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	139.0	1.1	0.8	139	134 - 143	82	118.9	0.6	0.5	119	114 - 123
All i-STAT Instruments	80	139.0	1.1	0.8	139	134 - 143	82	118.9	0.6	0.5	119	114 - 123
i-STAT - moderate	13	139.3	0.9	0.6	140	135 - 144	13	119.0	0.4	0.3	119	115 - 123
i-STAT - waived	69	138.8	1.3	1.0	139	134 - 143	69	118.9	0.7	0.6	119	114 - 123

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	72	106.3	0.6	0.6	106	102 - 111	70	134.2	0.8	0.6	134	130 - 139
All i-STAT Instruments	72	106.3	0.6	0.6	106	102 - 111	70	134.2	0.8	0.6	134	130 - 139
i-STAT - moderate	12	106.3	0.5	0.4	106	102 - 111	12	134.3	1.0	0.7	134	130 - 139
i-STAT - waived	60	106.3	0.7	0.6	106	102 - 111	58	134.2	0.8	0.6	134	130 - 139

<u>Instrument</u>	Specimen IST-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	71	148.5	1.4	1.0	149	144 - 153
All i-STAT Instruments	71	148.5	1.4	1.0	149	144 - 153
i-STAT - moderate	12	149.1	1.0	0.7	149	145 - 154
i-STAT - waived	59	148.4	1.5	1.0	149	144 - 153

Potassium (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	4.32	0.05	1.1	4.3	3.8 - 4.9	79	2.70	0.00	0.0	2.7	2.2 - 3.2
All i-STAT Instruments	82	4.32	0.05	1.1	4.3	3.8 - 4.9	79	2.70	0.00	0.0	2.7	2.2 - 3.2
i-STAT - moderate	13	4.30	0.04	0.9	4.3	3.8 - 4.8	13	2.70	0.00	0.0	2.7	2.2 - 3.2
i-STAT - waived	69	4.32	0.05	1.1	4.3	3.8 - 4.9	66	2.70	0.00	0.0	2.7	2.2 - 3.2

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	72	2.48	0.04	1.8	2.5	1.9 - 3.0	70	3.20	0.00	0.0	3.2	2.7 - 3.7
All i-STAT Instruments	72	2.48	0.04	1.8	2.5	1.9 - 3.0	70	3.20	0.00	0.0	3.2	2.7 - 3.7
i-STAT - moderate	12	2.47	0.05	2.0	2.5	1.9 - 3.0	12	3.20	0.00	0.0	3.2	2.7 - 3.7
i-STAT - waived	60	2.48	0.04	1.7	2.5	1.9 - 3.0	58	3.20	0.00	0.0	3.2	2.7 - 3.7

<u>Instrument</u>	Specimen IST-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	70	5.28	0.05	1.0	5.3	4.7 - 5.8
All i-STAT Instruments	70	5.28	0.05	1.0	5.3	4.7 - 5.8
i-STAT - moderate	12	5.29	0.05	1.0	5.3	4.7 - 5.8
i-STAT - waived	58	5.27	0.05	1.0	5.3	4.7 - 5.8

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	109.8	1.7	1.6	110	104 - 116	77	85.1	1.0	1.2	85	80 - 90
All i-STAT Instruments	75	109.8	1.7	1.6	110	104 - 116	77	85.1	1.0	1.2	85	80 - 90
i-STAT - moderate	10	109.7	1.4	1.3	110	104 - 116	10	84.6	1.2	1.4	85	80 - 89
i-STAT - waived	67	110.0	2.1	1.9	110	104 - 116	67	85.2	1.0	1.1	85	80 - 90

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	66	113.9	1.3	1.1	114	108 - 120	66	93.5	1.0	1.1	94	88 - 99
All i-STAT Instruments	66	113.9	1.3	1.1	114	108 - 120	66	93.5	1.0	1.1	94	88 - 99
i-STAT - moderate	9	-	-	-	114	108 - 120	9	-	-	-	94	88 - 99
i-STAT - waived	58	113.9	1.3	1.1	114	108 - 120	57	93.5	1.0	1.1	93	88 - 99

<u>Instrument</u>	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	119.1	2.3	1.9	119	113 - 126						
All i-STAT Instruments	67	119.1	2.3	1.9	119	113 - 126						
i-STAT - moderate	9	-	-	-	118	113 - 126						
i-STAT - waived	58	119.2	2.4	2.0	119	113 - 126						

tCO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	30.0	1.1	3.5	30	24 - 36	67	19.0	0.9	4.5	19	15 - 23
All i-STAT Instruments	67	30.0	1.1	3.5	30	24 - 36	67	19.0	0.9	4.5	19	15 - 23
i-STAT - waived	60	30.0	1.1	3.5	30	24 - 37	60	19.1	0.8	4.1	19	15 - 23

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	57	14.0	0.7	5.2	14	11 - 17	59	21.5	0.7	3.3	21	17 - 26
All i-STAT Instruments	57	14.0	0.7	5.2	14	11 - 17	59	21.5	0.7	3.3	21	17 - 26
i-STAT - waived	51	14.1	0.7	4.8	14	11 - 17	53	21.5	0.7	3.2	22	17 - 26

<u>Instrument</u>	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	59	28.9	1.0	3.4	29	23 - 35						
All i-STAT Instruments	59	28.9	1.0	3.4	29	23 - 35						
i-STAT - waived	53	28.9	1.0	3.4	29	23 - 35						

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	11.1	0.5	4.2	11	9 - 14	78	62.4	1.2	2.0	62	56 - 69
All i-STAT Instruments	77	11.1	0.5	4.2	11	9 - 14	78	62.4	1.2	2.0	62	56 - 69
i-STAT - moderate	10	11.3	0.5	4.3	11	9 - 14	10	62.8	1.0	1.6	63	57 - 69
i-STAT - waived	67	11.0	0.5	4.2	11	9 - 14	68	62.4	1.3	2.0	62	56 - 69
	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	108.0	3.0	2.8	108	98 - 118	67	31.5	0.7	2.2	31	28 - 35
All i-STAT Instruments	69	108.0	3.0	2.8	108	98 - 118	67	31.5	0.7	2.2	31	28 - 35
i-STAT - moderate	9	-	-	-	108	98 - 118	9	-	-	-	32	28 - 35
i-STAT - waived	60	107.9	2.9	2.7	108	98 - 118	58	31.4	0.7	2.3	31	28 - 35
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	67	10.7	0.5	4.3	11	8 - 13						
All i-STAT Instruments	67	10.7	0.5	4.3	11	8 - 13						
i-STAT - moderate	9	-	-	-	11	8 - 13						
i-STAT - waived	58	10.7	0.5	4.5	11	8 - 13						

Glucose (mg/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	78	90.7	3.3	3.6	90	81 - 100	78	310.7	3.9	1.3	311	279 - 342
All i-STAT Instruments	78	90.7	3.3	3.6	90	81 - 100	78	310.7	3.9	1.3	311	279 - 342
i-STAT - moderate	11	93.1	4.2	4.5	90	83 - 103	10	311.8	5.7	1.8	311	280 - 343
i-STAT - waived	67	90.3	2.9	3.2	89	81 - 100	66	310.9	3.1	1.0	311	279 - 343
	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	618.4	13.9	2.2	620	556 - 681	68	191.6	3.9	2.0	191	172 - 211
All i-STAT Instruments	67	618.4	13.9	2.2	620	556 - 681	68	191.6	3.9	2.0	191	172 - 211
i-STAT - moderate	9	-	-	-	616	556 - 681	10	193.7	5.0	2.6	192	174 - 214
i-STAT - waived	58	618.9	12.3	2.0	620	556 - 681	56	190.8	2.9	1.5	190	171 - 210
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	68	54.6	2.3	4.1	54	48 - 61						
All i-STAT Instruments	68	54.6	2.3	4.1	54	48 - 61						
i-STAT - moderate	10	56.3	2.9	5.2	56	50 - 63						
i-STAT - waived	58	54.3	2.0	3.7	54	48 - 61						

Hematocrit (percent)

<u><i>Instrument</i></u>	Specimen IST-6						Specimen IST-7					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	26	39.1	0.8	2.0	39	36 - 42	26	16.4	0.7	4.3	16	15 - 18
All i-STAT Instruments	26	39.1	0.8	2.0	39	36 - 42	26	16.4	0.7	4.3	16	15 - 18
i-STAT - waived	17	39.1	0.8	2.0	39	36 - 42	17	16.4	0.7	4.3	16	15 - 18
	Specimen IST-8						Specimen IST-9					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	21	15.0	0.6	3.9	15	14 - 16	20	30.3	0.9	2.8	30	28 - 33
All i-STAT Instruments	21	15.0	0.6	3.9	15	14 - 16	20	30.3	0.9	2.8	30	28 - 33
i-STAT - waived	13	15.1	0.6	4.2	15	14 - 16	12	30.3	0.8	2.6	31	28 - 33
	Specimen IST-10											
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	20	46.1	0.8	1.7	46	43 - 49						
All i-STAT Instruments	20	46.1	0.8	1.7	46	43 - 49						
i-STAT - waived	12	46.1	0.8	1.7	46	43 - 49						

Hemoglobin (g/dL)

<u><i>Instrument</i></u>	Specimen IST-6						Specimen IST-7					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	26	13.30	0.28	2.1	13.3	12.3 - 14.3	26	5.55	0.25	4.5	5.4	5.1 - 6.0
All i-STAT Instruments	26	13.30	0.28	2.1	13.3	12.3 - 14.3	26	5.55	0.25	4.5	5.4	5.1 - 6.0
i-STAT - waived	17	13.31	0.27	2.0	13.3	12.3 - 14.3	17	5.54	0.25	4.5	5.4	5.1 - 6.0
	Specimen IST-8						Specimen IST-9					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	21	5.11	0.18	3.5	5.1	4.7 - 5.5	20	10.28	0.27	2.6	10.2	9.5 - 11.0
All i-STAT Instruments	21	5.11	0.18	3.5	5.1	4.7 - 5.5	20	10.28	0.27	2.6	10.2	9.5 - 11.0
i-STAT - waived	13	5.12	0.19	3.8	5.1	4.7 - 5.5	12	10.30	0.23	2.3	10.4	9.5 - 11.1
	Specimen IST-10											
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	20	15.67	0.28	1.8	15.6	14.5 - 16.8						
All i-STAT Instruments	20	15.67	0.28	1.8	15.6	14.5 - 16.8						
i-STAT - waived	12	15.66	0.28	1.8	15.6	14.5 - 16.8						

Creatinine (mg/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	1.45	0.07	4.6	1.4	1.1 - 1.8	93	3.58	0.15	4.2	3.6	3.0 - 4.2
All i-STAT Instruments	94	1.45	0.07	4.6	1.4	1.1 - 1.8	93	3.58	0.15	4.2	3.6	3.0 - 4.2
i-STAT - waived	85	1.45	0.07	4.7	1.5	1.1 - 1.8	85	3.57	0.16	4.5	3.6	3.0 - 4.2
	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	0.80	0.07	9.0	0.8	0.5 - 1.2	67	2.61	0.11	4.3	2.6	2.2 - 3.1
All i-STAT Instruments	68	0.80	0.07	9.0	0.8	0.5 - 1.2	67	2.61	0.11	4.3	2.6	2.2 - 3.1
i-STAT - waived	60	0.80	0.07	8.6	0.8	0.5 - 1.2	59	2.61	0.11	4.4	2.6	2.2 - 3.0
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	0.99	0.06	6.0	1.0	0.6 - 1.3						
All i-STAT Instruments	68	0.99	0.06	6.0	1.0	0.6 - 1.3						
i-STAT - waived	60	1.00	0.06	5.8	1.0	0.6 - 1.3						

Ionized Calcium (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	65	1.120	0.021	1.9	1.12	1.05 - 1.19	66	1.474	0.019	1.3	1.48	1.41 - 1.54
All i-STAT Instruments	65	1.120	0.021	1.9	1.12	1.05 - 1.19	66	1.474	0.019	1.3	1.48	1.41 - 1.54
i-STAT - waived	60	1.119	0.023	2.1	1.12	1.04 - 1.19	60	1.473	0.019	1.3	1.47	1.41 - 1.54
	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	2.328	0.036	1.5	2.33	2.21 - 2.44	58	1.133	0.015	1.3	1.13	1.08 - 1.18
All i-STAT Instruments	58	2.328	0.036	1.5	2.33	2.21 - 2.44	58	1.133	0.015	1.3	1.13	1.08 - 1.18
i-STAT - waived	53	2.329	0.037	1.6	2.33	2.21 - 2.44	53	1.132	0.015	1.3	1.13	1.08 - 1.18
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	0.772	0.016	2.0	0.78	0.72 - 0.82						
All i-STAT Instruments	58	0.772	0.016	2.0	0.78	0.72 - 0.82						
i-STAT - waived	53	0.772	0.016	2.0	0.78	0.72 - 0.82						

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	3.10	0.41	13.3	3.3	2.7 - 3.5	356	4.23	0.57	13.5	4.5	3.8 - 4.7
All Bromocresol Green Reagents	242	3.36	0.13	3.7	3.4	3.0 - 3.7	241	4.59	0.18	4.0	4.6	4.1 - 5.1
All Bromocresol Purple Reagents	109	2.52	0.11	4.4	2.5	2.2 - 2.8	108	3.42	0.10	2.8	3.4	3.0 - 3.8
Abaxis Piccolo												
Abaxis Piccolo - waived	16	2.62	0.08	2.9	2.6	2.3 - 2.9	16	3.39	0.09	2.5	3.4	3.0 - 3.8
Abaxis Piccolo	10	2.66	0.10	3.6	2.7	2.3 - 3.0	10	3.40	0.07	2.0	3.4	3.0 - 3.8
All Chemistry Instruments	26	2.63	0.08	3.2	2.6	2.3 - 2.9	26	3.40	0.08	2.3	3.4	3.0 - 3.8
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	48	3.37	0.10	2.9	3.4	3.0 - 3.8	48	4.51	0.11	2.4	4.5	4.0 - 5.0
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	17	3.39	0.05	1.4	3.4	3.0 - 3.8	17	4.58	0.07	1.5	4.6	4.1 - 5.1
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	11	2.58	0.04	1.6	2.6	2.3 - 2.9	11	3.52	0.08	2.1	3.5	3.1 - 3.9
All Chemistry Instruments	12	2.58	0.05	1.8	2.6	2.3 - 2.9	12	3.51	0.08	2.3	3.5	3.1 - 3.9
Beckman AU												
Beckman AU systems	25	3.41	0.09	2.7	3.4	3.0 - 3.8	25	4.62	0.12	2.5	4.6	4.1 - 5.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	3.30	0.07	2.1	3.3	2.9 - 3.7	20	4.34	0.09	2.2	4.4	3.9 - 4.8
Roche Integra												
Roche Integra	35	3.43	0.08	2.4	3.4	3.0 - 3.8	35	4.60	0.11	2.3	4.6	4.1 - 5.1
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	2.45	0.07	2.8	2.5	2.2 - 2.7	58	3.40	0.09	2.6	3.4	3.0 - 3.8
All Chemistry Instruments	60	2.45	0.07	2.8	2.5	2.2 - 2.7	59	3.40	0.09	2.5	3.4	3.0 - 3.8
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	3.43	0.06	1.8	3.4	3.0 - 3.8	15	4.70	0.11	2.3	4.7	4.2 - 5.2
All Chemistry Instruments	22	3.42	0.07	1.9	3.4	3.0 - 3.8	22	4.67	0.15	3.1	4.7	4.2 - 5.2
VITROS												
VITROS 250,350,500,700,750,950	37	3.22	0.12	3.6	3.2	2.8 - 3.6	37	4.76	0.19	4.1	4.8	4.2 - 5.3
All Chemistry Instruments	43	3.22	0.12	3.8	3.2	2.9 - 3.6	43	4.78	0.20	4.3	4.8	4.2 - 5.3

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	2.34	0.32	13.9	2.5	2.1 - 2.6	347	2.70	0.37	13.7	2.9	2.4 - 3.0
All Bromocresol Green Reagents	241	2.53	0.12	4.7	2.6	2.2 - 2.8	240	2.92	0.11	3.8	2.9	2.6 - 3.3
All Bromocresol Purple Reagents	101	1.88	0.12	6.4	1.8	1.6 - 2.1	99	2.15	0.08	3.6	2.1	1.9 - 2.4
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	2.1	1.8 - 2.3	8	-	-	-	2.3	2.0 - 2.5
Abaxis Piccolo	9	-	-	-	2.1	1.8 - 2.3	9	-	-	-	2.2	2.0 - 2.5
All Chemistry Instruments	17	2.07	0.06	2.8	2.1	1.8 - 2.3	17	2.25	0.06	2.8	2.2	2.0 - 2.5
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	47	2.59	0.07	2.8	2.6	2.3 - 2.9	48	2.98	0.08	2.5	3.0	2.6 - 3.3
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	17	2.62	0.05	2.0	2.6	2.3 - 2.9	17	3.01	0.10	3.4	3.0	2.7 - 3.4
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	11	1.95	0.05	2.7	2.0	1.7 - 2.2	11	2.25	0.05	2.3	2.2	2.0 - 2.5
All Chemistry Instruments	12	1.95	0.05	2.7	2.0	1.7 - 2.2	12	2.23	0.07	2.9	2.2	2.0 - 2.5
Beckman AU												
Beckman AU systems	25	2.54	0.07	2.8	2.5	2.2 - 2.8	25	2.93	0.07	2.3	2.9	2.6 - 3.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	2.53	0.07	2.6	2.5	2.2 - 2.8	20	2.88	0.08	2.7	2.9	2.5 - 3.2
Roche Integra												
Roche Integra	35	2.58	0.06	2.4	2.6	2.3 - 2.9	34	2.96	0.07	2.5	3.0	2.6 - 3.3
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	1.80	0.05	2.7	1.8	1.6 - 2.0	59	2.11	0.05	2.3	2.1	1.9 - 2.4
All Chemistry Instruments	60	1.80	0.05	2.7	1.8	1.6 - 2.0	60	2.11	0.05	2.3	2.1	1.9 - 2.4
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	2.53	0.06	2.3	2.5	2.2 - 2.8	15	2.91	0.06	2.2	2.9	2.6 - 3.3
All Chemistry Instruments	22	2.53	0.08	3.0	2.5	2.2 - 2.8	22	2.94	0.08	2.7	2.9	2.6 - 3.3
VITROS												
VITROS 250,350,500,700,750,950	37	2.33	0.07	3.2	2.3	2.0 - 2.6	37	2.78	0.09	3.2	2.8	2.4 - 3.1
All Chemistry Instruments	41	2.34	0.07	3.1	2.3	2.1 - 2.6	43	2.78	0.11	3.9	2.8	2.5 - 3.1

Albumin (g/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	347	3.90	0.54	13.8	4.1	3.5 - 4.3
All Bromocresol Green Reagents	238	4.22	0.17	4.0	4.2	3.7 - 4.7
All Bromocresol Purple Reagents	100	3.12	0.10	3.1	3.1	2.8 - 3.5
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	3.1	2.8 - 3.5
Abaxis Piccolo	9	-	-	-	3.1	2.8 - 3.5
All Chemistry Instruments	17	3.12	0.07	2.3	3.1	2.8 - 3.5
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	47	4.17	0.12	2.8	4.2	3.7 - 4.6
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	17	4.19	0.07	1.8	4.2	3.7 - 4.7
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	11	3.24	0.07	2.1	3.2	2.9 - 3.6
All Chemistry Instruments	12	3.23	0.08	2.3	3.2	2.9 - 3.6
Beckman AU						
Beckman AU systems	25	4.21	0.10	2.3	4.2	3.7 - 4.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	4.01	0.09	2.1	4.0	3.6 - 4.5
Roche Integra						
Roche Integra	34	4.20	0.08	2.0	4.2	3.7 - 4.7
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	59	3.09	0.08	2.6	3.1	2.7 - 3.5
All Chemistry Instruments	60	3.09	0.08	2.6	3.1	2.7 - 3.5
Vital Diagnostics						
Vital Diagnostics Envoy 500	15	4.28	0.09	2.0	4.3	3.8 - 4.8
All Chemistry Instruments	22	4.27	0.12	2.7	4.3	3.8 - 4.7
VITROS						
VITROS 250,350,500,700,750,950	37	4.43	0.17	3.9	4.4	3.9 - 4.9
All Chemistry Instruments	43	4.44	0.18	4.1	4.4	3.9 - 4.9

Bilirubin, Direct (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-6					Specimen CH-7					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	231	0.86	0.30	34.5	0.8	0.2 - 1.5	233	1.47	0.40	27.5	1.3	0.6 - 2.3
All Alfa Wassermann Reagents	35	1.24	0.11	9.0	1.2	1.0 - 1.5	36	1.97	0.14	7.0	1.9	1.6 - 2.3
All Roche Integra/c111/c501 Reagents	30	0.72	0.05	7.0	0.7	0.6 - 0.9	31	1.23	0.08	6.7	1.2	1.0 - 1.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	32	1.25	0.10	8.4	1.2	1.0 - 1.5	33	1.98	0.12	6.3	1.9	1.7 - 2.3
Beckman AU												
Beckman AU systems	22	1.07	0.08	7.9	1.1	0.9 - 1.3	22	1.78	0.14	7.8	1.8	1.5 - 2.1
Carolina Liquid Chemistries												
All Chemistry Instruments	11	0.55	0.09	17.1	0.6	0.3 - 0.8	11	0.88	0.08	8.5	0.9	0.7 - 1.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	1.14	0.05	4.4	1.1	1.0 - 1.3	17	1.89	0.11	6.0	1.9	1.6 - 2.2
Roche Integra												
Roche Integra	25	0.72	0.05	7.2	0.7	0.6 - 0.9	26	1.23	0.09	7.2	1.2	1.0 - 1.5
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	48	0.66	0.06	9.7	0.7	0.5 - 0.8	49	1.12	0.11	9.6	1.1	0.9 - 1.4
All Chemistry Instruments	49	0.66	0.07	10.1	0.7	0.5 - 0.8	50	1.12	0.11	9.7	1.1	0.9 - 1.4
Vital Diagnostics												
All Chemistry Instruments	13	1.11	0.09	7.8	1.1	0.9 - 1.3	13	1.79	0.15	8.4	1.8	1.4 - 2.1
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	19	0.48	0.19	39.1	0.5	0.1 - 0.9	19	1.23	0.28	22.7	1.3	0.6 - 1.8
All Chemistry Instruments	24	0.50	0.23	46.8	0.5	0.0 - 1.0	24	1.26	0.30	23.9	1.3	0.6 - 1.9

Bilirubin, Direct (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	233	0.62	0.26	41.8	0.6	0.1 - 1.2	232	1.72	0.45	26.0	1.5	0.8 - 2.7
All Alfa Wassermann Reagents	36	0.96	0.10	10.1	1.0	0.7 - 1.2	35	2.25	0.13	5.9	2.2	1.9 - 2.6
All Roche Integra/c111/c501 Reagents	31	0.53	0.05	10.2	0.5	0.4 - 0.7	31	1.46	0.09	6.3	1.4	1.2 - 1.7
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	33	0.96	0.10	10.0	1.0	0.7 - 1.2	32	2.26	0.13	5.6	2.2	2.0 - 2.6
Beckman AU												
Beckman AU systems	22	0.79	0.08	9.5	0.8	0.6 - 1.0	21	2.15	0.15	7.1	2.2	1.8 - 2.5
Carolina Liquid Chemistries												
All Chemistry Instruments	11	0.45	0.07	15.1	0.5	0.3 - 0.6	11	1.21	0.09	7.8	1.2	1.0 - 1.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	0.83	0.06	7.1	0.8	0.7 - 1.0	16	2.22	0.10	4.7	2.2	2.0 - 2.5
Roche Integra												
Roche Integra	26	0.53	0.05	10.3	0.5	0.4 - 0.7	26	1.45	0.09	6.2	1.4	1.2 - 1.7
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	48	0.50	0.07	13.7	0.5	0.3 - 0.7	49	1.40	0.13	9.1	1.4	1.1 - 1.7
All Chemistry Instruments	49	0.50	0.07	13.8	0.5	0.3 - 0.7	50	1.40	0.13	9.2	1.4	1.1 - 1.7
Vital Diagnostics												
All Chemistry Instruments	12	0.80	0.06	7.5	0.8	0.6 - 1.0	13	2.16	0.19	8.8	2.1	1.7 - 2.6
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	19	0.19	0.14	71.6	0.2	0.0 - 0.5	19	1.22	0.18	14.8	1.2	0.8 - 1.6
All Chemistry Instruments	24	0.22	0.17	80.1	0.2	0.0 - 0.6	24	1.25	0.18	14.3	1.3	0.8 - 1.7

Bilirubin, Direct (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	233	1.71	0.44	25.8	1.5	0.8 - 2.6
All Alfa Wassermann Reagents	36	2.24	0.15	6.6	2.2	1.9 - 2.6
All Roche Integra/c111/c501 Reagents	31	1.45	0.10	6.6	1.4	1.2 - 1.7
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	33	2.25	0.15	6.5	2.2	1.9 - 2.6
Beckman AU						
Beckman AU systems	22	2.06	0.14	6.9	2.1	1.7 - 2.4
Carolina Liquid Chemistries						
All Chemistry Instruments	11	1.06	0.08	7.6	1.1	0.9 - 1.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	2.21	0.13	6.1	2.2	1.9 - 2.5
Roche Integra						
Roche Integra	26	1.46	0.10	7.0	1.5	1.2 - 1.7
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	48	1.31	0.10	7.9	1.3	1.1 - 1.6
All Chemistry Instruments	49	1.31	0.11	8.1	1.3	1.1 - 1.6
Vital Diagnostics						
All Chemistry Instruments	13	2.10	0.14	6.7	2.1	1.8 - 2.4
VITROS-BuBc and Bc						
VITROS 250,350,500,700,750,950	19	1.41	0.17	12.3	1.4	1.0 - 1.8
All Chemistry Instruments	24	1.44	0.22	15.3	1.4	0.9 - 1.9

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	2.10	0.24	11.6	2.1	1.6 - 2.6	356	3.30	0.36	10.8	3.3	2.6 - 4.0
All Alfa Wassermann Reagents	64	2.40	0.14	5.7	2.4	1.9 - 2.9	62	3.75	0.18	4.8	3.8	3.0 - 4.6
All Horiba Pentra Reagents	22	2.10	0.10	4.7	2.1	1.6 - 2.6	22	3.25	0.13	4.1	3.3	2.5 - 3.9
All Roche T. bili Special Reagents	35	1.75	0.09	5.3	1.8	1.3 - 2.2	35	2.79	0.16	5.8	2.8	2.2 - 3.4
All Vital Diagnostics Reagents	24	1.96	0.17	8.5	1.9	1.5 - 2.4	25	3.06	0.27	8.9	3.0	2.4 - 3.7
Abaxis Piccolo												
Abaxis Piccolo - waived	16	2.12	0.10	4.9	2.1	1.6 - 2.6	16	3.19	0.10	3.0	3.2	2.5 - 3.9
Abaxis Piccolo	10	2.07	0.07	3.3	2.1	1.6 - 2.5	10	3.15	0.08	2.7	3.2	2.5 - 3.8
All Chemistry Instruments	25	2.09	0.07	3.5	2.1	1.6 - 2.6	26	3.17	0.09	2.9	3.2	2.5 - 3.9
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	58	2.40	0.14	5.7	2.4	1.9 - 2.9	56	3.76	0.18	4.8	3.8	3.0 - 4.6
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	11	2.43	0.17	7.2	2.4	1.9 - 3.0	11	3.84	0.25	6.4	3.9	3.0 - 4.7
All Chemistry Instruments	12	2.43	0.17	6.8	2.4	1.9 - 3.0	12	3.83	0.24	6.2	3.8	3.0 - 4.6
Beckman AU												
Beckman AU systems	25	2.23	0.10	4.6	2.2	1.7 - 2.7	25	3.43	0.16	4.7	3.4	2.7 - 4.2
Carolina Liquid Chemistries												
All Chemistry Instruments	13	2.13	0.20	9.3	2.1	1.7 - 2.6	13	3.37	0.27	8.1	3.4	2.6 - 4.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	2.11	0.10	4.8	2.1	1.6 - 2.6	20	3.25	0.13	4.1	3.3	2.5 - 3.9
Roche Integra-T. bili Special												
Roche Integra	27	1.72	0.08	4.9	1.7	1.3 - 2.2	27	2.74	0.13	4.7	2.7	2.1 - 3.3
All Chemistry Instruments	28	1.73	0.08	4.9	1.7	1.3 - 2.2	28	2.75	0.13	4.9	2.7	2.1 - 3.3
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	2.00	0.11	5.6	2.0	1.5 - 2.4	60	3.20	0.18	5.7	3.2	2.5 - 3.9
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	1.89	0.07	3.9	1.9	1.4 - 2.3	15	2.95	0.12	4.2	3.0	2.3 - 3.6
All Chemistry Instruments	22	1.99	0.15	7.7	2.0	1.5 - 2.4	23	3.10	0.26	8.3	3.0	2.4 - 3.8
VITROS - TBIL												
VITROS 250,350,500,700,750,950	34	1.99	0.19	9.6	1.9	1.5 - 2.4	34	3.30	0.26	7.7	3.3	2.6 - 4.0
All Chemistry Instruments	39	2.01	0.18	9.1	2.0	1.6 - 2.5	39	3.31	0.25	7.5	3.3	2.6 - 4.0

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-8					Specimen CH-9					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	1.66	0.21	12.6	1.7	1.2 - 2.1	345	3.81	0.39	10.2	3.8	3.0 - 4.6
All Alfa Wassermann Reagents	62	1.93	0.11	5.8	1.9	1.5 - 2.4	62	4.32	0.21	4.8	4.3	3.4 - 5.2
All Horiba Pentra Reagents	22	1.70	0.08	5.0	1.7	1.2 - 2.1	20	3.93	0.12	3.0	3.9	3.1 - 4.8
All Roche T. bili Special Reagents	35	1.39	0.08	5.5	1.4	0.9 - 1.8	35	3.38	0.18	5.5	3.4	2.7 - 4.1
All Vital Diagnostics Reagents	23	1.54	0.12	7.5	1.5	1.1 - 2.0	25	3.57	0.26	7.2	3.6	2.8 - 4.3
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	1.7	1.2 - 2.1	8	-	-	-	3.6	2.8 - 4.4
Abaxis Piccolo	9	-	-	-	1.7	1.2 - 2.1	9	-	-	-	3.6	2.8 - 4.4
All Chemistry Instruments	17	1.68	0.06	3.8	1.7	1.2 - 2.1	16	3.61	0.09	2.6	3.6	2.8 - 4.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	56	1.94	0.11	5.5	1.9	1.5 - 2.4	57	4.33	0.21	4.8	4.3	3.4 - 5.2
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	11	1.93	0.14	7.4	1.9	1.5 - 2.4	11	4.19	0.28	6.8	4.1	3.3 - 5.1
All Chemistry Instruments	12	1.93	0.14	7.0	1.9	1.5 - 2.4	12	4.17	0.28	6.8	4.1	3.3 - 5.1
Beckman AU												
Beckman AU systems	25	1.80	0.08	4.7	1.8	1.3 - 2.2	25	4.14	0.19	4.6	4.2	3.3 - 5.0
Carolina Liquid Chemistries												
All Chemistry Instruments	13	1.63	0.15	9.2	1.7	1.2 - 2.1	13	3.76	0.31	8.2	3.9	3.0 - 4.6
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	1.70	0.09	5.0	1.7	1.3 - 2.1	19	3.93	0.12	3.1	3.9	3.1 - 4.8
Roche Integra-T. bili Special												
Roche Integra	27	1.37	0.07	5.2	1.4	0.9 - 1.8	27	3.33	0.15	4.5	3.3	2.6 - 4.0
All Chemistry Instruments	28	1.38	0.07	5.4	1.4	0.9 - 1.8	28	3.34	0.16	4.9	3.3	2.6 - 4.1
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	1.57	0.11	7.0	1.6	1.1 - 2.0	60	3.69	0.22	5.9	3.7	2.9 - 4.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	1.37	0.33	23.9	1.5	0.9 - 1.8	15	3.49	0.15	4.4	3.6	2.7 - 4.2
All Chemistry Instruments	21	1.55	0.12	7.5	1.5	1.1 - 2.0	23	3.61	0.22	6.2	3.6	2.8 - 4.4
VITROS - TBIL												
VITROS 250,350,500,700,750,950	33	1.52	0.12	8.1	1.5	1.1 - 2.0	34	3.61	0.32	8.9	3.7	2.8 - 4.4
All Chemistry Instruments	38	1.52	0.12	7.8	1.5	1.1 - 2.0	39	3.63	0.31	8.4	3.7	2.9 - 4.4

Bilirubin, Total (mg/dL)

Specimen CH-10

<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	3.80	0.39	10.3	3.8	3.0 - 4.6
All Alfa Wassermann Reagents	62	4.31	0.20	4.6	4.3	3.4 - 5.2
All Horiba Pentra Reagents	22	3.77	0.13	3.4	3.8	3.0 - 4.6
All Roche T. bili Special Reagents	35	3.28	0.20	6.1	3.2	2.6 - 4.0
All Vital Diagnostics Reagents	25	3.57	0.29	8.0	3.5	2.8 - 4.3
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	3.6	2.8 - 4.4
Abaxis Piccolo	9	-	-	-	3.6	2.8 - 4.4
All Chemistry Instruments	17	3.59	0.11	3.1	3.6	2.8 - 4.4
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	56	4.31	0.20	4.6	4.3	3.4 - 5.2
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	11	4.35	0.24	5.6	4.3	3.4 - 5.3
All Chemistry Instruments	12	4.33	0.23	5.4	4.3	3.4 - 5.2
Beckman AU						
Beckman AU systems	25	3.98	0.17	4.3	4.0	3.1 - 4.8
Carolina Liquid Chemistries						
All Chemistry Instruments	13	3.84	0.26	6.9	3.9	3.0 - 4.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	3.78	0.13	3.5	3.8	3.0 - 4.6
Roche Integra-T. bili Special						
Roche Integra	27	3.23	0.19	5.8	3.2	2.5 - 3.9
All Chemistry Instruments	28	3.24	0.19	5.9	3.2	2.5 - 3.9
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	60	3.68	0.21	5.8	3.7	2.9 - 4.5
Vital Diagnostics						
Vital Diagnostics Envoy 500	15	3.44	0.15	4.4	3.5	2.7 - 4.2
All Chemistry Instruments	23	3.60	0.28	7.8	3.5	2.8 - 4.4
VITROS - TBIL						
VITROS 250,350,500,700,750,950	34	3.74	0.29	7.9	3.8	2.9 - 4.5
All Chemistry Instruments	39	3.77	0.28	7.6	3.8	3.0 - 4.6

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	360	8.06	0.25	3.1	8.0	7.0 - 9.1	360	8.97	0.29	3.2	9.0	7.9 - 10.0
All Arsenazo Methods	190	8.02	0.26	3.3	8.0	7.0 - 9.1	187	8.99	0.27	3.0	9.0	7.9 - 10.0
All CPC Methods	151	8.10	0.22	2.7	8.1	7.1 - 9.2	152	8.96	0.29	3.3	8.9	7.9 - 10.0
Abaxis Piccolo												
Abaxis Piccolo - waived	17	8.16	0.28	3.4	8.1	7.1 - 9.2	17	9.04	0.19	2.1	9.0	8.0 - 10.1
Abaxis Piccolo	10	8.04	0.19	2.4	8.1	7.0 - 9.1	10	9.00	0.15	1.7	9.0	8.0 - 10.0
All Chemistry Instruments	27	8.11	0.25	3.1	8.1	7.1 - 9.2	27	9.03	0.18	2.0	9.0	8.0 - 10.1
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	59	8.07	0.20	2.5	8.0	7.0 - 9.1	59	8.99	0.21	2.3	9.0	7.9 - 10.0
Beckman - electrode												
Beckman Synchron LX/Pro/DxC	10	8.10	0.14	1.7	8.1	7.1 - 9.1	10	9.01	0.15	1.7	9.1	8.0 - 10.1
All Chemistry Instruments	13	8.17	0.21	2.6	8.2	7.1 - 9.2	13	9.08	0.18	2.0	9.1	8.0 - 10.1
Beckman AU												
Beckman AU systems	24	8.41	0.13	1.5	8.4	7.4 - 9.5	25	9.34	0.17	1.9	9.4	8.3 - 10.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	8.02	0.18	2.2	8.0	7.0 - 9.1	19	9.09	0.21	2.3	9.1	8.0 - 10.1
Roche Integra												
Roche Integra	35	8.06	0.21	2.6	8.0	7.0 - 9.1	35	8.92	0.26	2.9	8.9	7.9 - 10.0
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	8.03	0.16	2.0	8.0	7.0 - 9.1	59	8.77	0.19	2.2	8.8	7.7 - 9.8
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	7.93	0.30	3.7	7.9	6.9 - 9.0	16	8.86	0.29	3.3	8.9	7.8 - 9.9
All Chemistry Instruments	24	7.85	0.28	3.6	7.9	6.8 - 8.9	24	8.73	0.34	3.9	8.8	7.7 - 9.8
VITROS												
VITROS 250,350,500,700,750,950	35	7.81	0.14	1.8	7.8	6.8 - 8.9	35	8.84	0.14	1.6	8.8	7.8 - 9.9
All Chemistry Instruments	44	7.84	0.16	2.0	7.8	6.8 - 8.9	45	8.90	0.19	2.2	8.9	7.9 - 9.9

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	8.52	0.23	2.7	8.5	7.5 - 9.6	351	12.85	0.42	3.3	12.8	11.8 - 13.9
All Arsenazo Methods	180	8.48	0.25	3.0	8.5	7.4 - 9.5	181	12.77	0.37	2.9	12.8	11.7 - 13.8
All CPC Methods	151	8.55	0.21	2.4	8.5	7.5 - 9.6	152	12.97	0.48	3.7	13.0	11.9 - 14.0
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	8.6	7.5 - 9.6	9	-	-	-	13.0	12.0 - 14.1
Abaxis Piccolo	9	-	-	-	8.5	7.5 - 9.6	9	-	-	-	13.0	12.0 - 14.1
All Chemistry Instruments	18	8.58	0.21	2.4	8.6	7.5 - 9.6	18	13.06	0.32	2.4	13.0	12.0 - 14.1
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	58	8.61	0.18	2.1	8.6	7.6 - 9.7	59	12.66	0.28	2.2	12.6	11.6 - 13.7
Beckman - electrode												
Beckman Synchron LX/Pro/DxC	10	8.59	0.17	2.0	8.6	7.5 - 9.6	10	12.68	0.26	2.0	12.8	11.6 - 13.7
All Chemistry Instruments	13	8.61	0.16	1.9	8.6	7.6 - 9.7	13	12.68	0.26	2.1	12.8	11.6 - 13.7
Beckman AU												
Beckman AU systems	25	8.72	0.13	1.5	8.7	7.7 - 9.8	24	12.80	0.32	2.5	12.9	11.8 - 13.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	8.48	0.27	3.2	8.5	7.4 - 9.5	19	13.48	0.30	2.2	13.5	12.4 - 14.5
Roche Integra												
Roche Integra	35	8.57	0.20	2.3	8.6	7.5 - 9.6	34	13.32	0.28	2.1	13.3	12.3 - 14.4
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	8.48	0.17	2.0	8.5	7.4 - 9.5	59	12.60	0.27	2.2	12.6	11.6 - 13.6
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	8.30	0.25	3.0	8.3	7.3 - 9.3	16	12.58	0.44	3.5	12.4	11.5 - 13.6
All Chemistry Instruments	23	8.27	0.23	2.8	8.3	7.2 - 9.3	23	12.54	0.30	2.4	12.4	11.5 - 13.6
VITROS												
VITROS 250,350,500,700,750,950	35	8.29	0.15	1.9	8.3	7.2 - 9.3	35	12.91	0.22	1.7	13.0	11.9 - 14.0
All Chemistry Instruments	45	8.34	0.19	2.3	8.3	7.3 - 9.4	44	12.93	0.23	1.8	13.0	11.9 - 14.0

Calcium (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	350	10.70	0.32	3.0	10.7	9.6 - 11.7
All Arsenazo Methods	180	10.70	0.34	3.1	10.7	9.7 - 11.8
All CPC Methods	151	10.69	0.31	2.9	10.7	9.6 - 11.7
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	10.7	9.7 - 11.8
Abaxis Piccolo	9	-	-	-	10.6	9.7 - 11.8
All Chemistry Instruments	18	10.74	0.23	2.1	10.7	9.7 - 11.8
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	60	10.67	0.32	3.0	10.7	9.6 - 11.7
Beckman - electrode						
Beckman Synchron LX/Pro/DxC	10	10.67	0.21	1.9	10.7	9.6 - 11.7
All Chemistry Instruments	13	10.72	0.22	2.1	10.7	9.7 - 11.8
Beckman AU						
Beckman AU systems	24	10.91	0.16	1.4	10.9	9.9 - 12.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	10.98	0.21	1.9	11.0	9.9 - 12.0
Roche Integra						
Roche Integra	34	10.78	0.25	2.3	10.8	9.7 - 11.8
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	58	10.45	0.20	2.0	10.5	9.4 - 11.5
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	10.46	0.44	4.2	10.3	9.4 - 11.5
All Chemistry Instruments	24	10.41	0.39	3.7	10.4	9.4 - 11.5
VITROS						
VITROS 250,350,500,700,750,950	35	10.76	0.18	1.7	10.8	9.7 - 11.8
All Chemistry Instruments	44	10.79	0.19	1.7	10.8	9.7 - 11.8

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-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	365	1.13	0.15	13.3	1.2	0.8 - 1.5	365	2.34	0.27	11.5	2.4	1.9 - 2.7
IDMS Standardization	177	1.08	0.16	14.9	1.1	0.7 - 1.4	177	2.25	0.29	12.9	2.3	1.9 - 2.6
Abaxis Piccolo												
Abaxis Piccolo - waived	15	1.27	0.16	12.4	1.2	0.9 - 1.6	15	2.60	0.19	7.1	2.6	2.2 - 3.0
All Chemistry Instruments	17	1.29	0.15	11.9	1.3	0.9 - 1.6	17	2.61	0.17	6.7	2.6	2.2 - 3.0
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	25	1.13	0.10	8.7	1.1	0.8 - 1.5	23	2.25	0.07	3.0	2.3	1.9 - 2.6
Beckman - cartridge												
All Chemistry Instruments	10	1.05	0.07	6.7	1.1	0.7 - 1.4	10	2.38	0.08	3.3	2.4	2.0 - 2.8
Beckman AU												
Beckman AU systems	16	1.14	0.07	6.4	1.2	0.8 - 1.5	16	2.44	0.10	3.9	2.5	2.0 - 2.9
CRSC (single slide)												
VITROS 250,350,500,700,750,950	22	0.86	0.06	6.9	0.9	0.5 - 1.2	22	1.84	0.08	4.3	1.8	1.5 - 2.2
All Chemistry Instruments	30	0.88	0.08	9.6	0.9	0.5 - 1.2	30	1.86	0.13	6.8	1.8	1.5 - 2.2
Roche Integra												
Roche Integra	21	1.05	0.09	8.8	1.0	0.7 - 1.4	21	2.19	0.15	7.0	2.1	1.8 - 2.6
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	10	1.17	0.12	9.9	1.2	0.8 - 1.5	10	2.50	0.11	4.2	2.5	2.1 - 2.9
Non-IDMS Method	136	1.18	0.10	8.5	1.2	0.8 - 1.5	138	2.44	0.18	7.6	2.5	2.0 - 2.9
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	18	1.12	0.06	5.8	1.1	0.8 - 1.5	20	2.27	0.11	5.0	2.3	1.9 - 2.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	1.24	0.07	5.5	1.2	0.9 - 1.6	11	2.46	0.14	5.8	2.5	2.0 - 2.9
Roche Integra												
Roche Integra	14	1.09	0.10	9.5	1.1	0.7 - 1.4	14	2.29	0.18	7.9	2.3	1.9 - 2.7
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	41	1.20	0.07	6.0	1.2	0.8 - 1.5	41	2.55	0.09	3.5	2.6	2.1 - 3.0
Vital Diagnostics												
Vital Diagnostics Envoy 500	11	1.20	0.08	6.5	1.2	0.9 - 1.5	11	2.50	0.13	5.4	2.6	2.1 - 2.9
All Chemistry Instruments	16	1.24	0.13	10.2	1.2	0.9 - 1.6	16	2.46	0.18	7.4	2.6	2.0 - 2.9

Creatinine (mg/dL)

<u>Standardization/Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	0.99	0.12	11.9	1.0	0.6 - 1.3	357	4.31	0.26	6.1	4.3	3.6 - 5.0
IDMS Standardization	169	0.95	0.11	12.0	0.9	0.6 - 1.3	170	4.31	0.26	6.1	4.3	3.6 - 5.0
Abaxis Piccolo												
All Chemistry Instruments	10	1.07	0.08	7.7	1.1	0.7 - 1.4	10	4.51	0.23	5.1	4.5	3.8 - 5.2
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	24	1.00	0.07	7.2	1.0	0.7 - 1.3	24	4.09	0.15	3.8	4.1	3.4 - 4.8
Beckman - cartridge												
All Chemistry Instruments	10	1.01	0.28	28.2	0.9	0.7 - 1.4	10	4.34	0.15	3.5	4.3	3.6 - 5.0
Beckman AU												
Beckman AU systems	16	0.99	0.08	7.8	1.0	0.6 - 1.3	16	4.32	0.13	3.0	4.4	3.6 - 5.0
CRSC (single slide)												
VITROS 250,350,500,700,750,950	22	0.81	0.06	6.9	0.8	0.5 - 1.2	22	4.54	0.14	3.2	4.5	3.8 - 5.3
All Chemistry Instruments	30	0.83	0.07	9.0	0.8	0.5 - 1.2	30	4.55	0.15	3.2	4.5	3.8 - 5.3
Roche Integra												
Roche Integra	21	0.92	0.07	7.4	0.9	0.6 - 1.3	21	4.07	0.21	5.2	4.0	3.4 - 4.7
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	10	1.00	0.12	11.5	1.0	0.7 - 1.3	10	4.40	0.11	2.4	4.4	3.7 - 5.1
Non-IDMS Method	139	1.04	0.10	9.9	1.0	0.7 - 1.4	139	4.31	0.25	5.8	4.4	3.6 - 5.0
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	20	1.03	0.07	6.4	1.0	0.7 - 1.4	20	4.01	0.14	3.5	4.0	3.4 - 4.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	1.11	0.09	8.5	1.1	0.8 - 1.5	11	4.25	0.18	4.3	4.3	3.6 - 4.9
Roche Integra												
Roche Integra	14	0.96	0.10	10.5	0.9	0.6 - 1.3	14	4.19	0.23	5.4	4.2	3.5 - 4.9
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	41	1.06	0.08	7.3	1.0	0.7 - 1.4	41	4.50	0.12	2.7	4.5	3.8 - 5.2
Vital Diagnostics												
Vital Diagnostics Envoy 500	11	1.05	0.07	6.5	1.0	0.7 - 1.4	11	4.25	0.22	5.1	4.2	3.6 - 4.9
All Chemistry Instruments	16	1.08	0.09	8.4	1.1	0.7 - 1.4	16	4.31	0.25	5.8	4.3	3.6 - 5.0

Creatinine (mg/dL)

Specimen CH-10						
<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	355	3.35	0.26	7.8	3.4	2.8 - 3.9
IDMS Standardization	168	3.28	0.25	7.8	3.2	2.7 - 3.8
Abaxis Piccolo						
All Chemistry Instruments	10	3.58	0.19	5.4	3.6	3.0 - 4.2
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	24	3.24	0.20	6.1	3.2	2.7 - 3.8
Beckman - cartridge						
All Chemistry Instruments	10	3.38	0.10	3.1	3.4	2.8 - 3.9
Beckman AU						
Beckman AU systems	16	3.44	0.12	3.3	3.5	2.9 - 4.0
CRSC (single slide)						
VITROS 250,350,500,700,750,950	22	3.04	0.11	3.6	3.0	2.5 - 3.5
All Chemistry Instruments	30	3.06	0.15	4.8	3.1	2.6 - 3.6
Roche Integra						
Roche Integra	19	3.09	0.13	4.2	3.1	2.6 - 3.6
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	10	3.55	0.07	2.0	3.5	3.0 - 4.1
Non-IDMS Method	139	3.43	0.24	7.1	3.5	2.9 - 4.0
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	20	3.17	0.12	3.8	3.2	2.6 - 3.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	3.43	0.21	6.1	3.5	2.9 - 4.0
Roche Integra						
Roche Integra	14	3.24	0.23	7.2	3.2	2.7 - 3.8
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	41	3.59	0.09	2.6	3.6	3.0 - 4.2
Vital Diagnostics						
Vital Diagnostics Envoy 500	11	3.47	0.15	4.3	3.5	2.9 - 4.0
All Chemistry Instruments	16	3.50	0.22	6.3	3.5	2.9 - 4.1

Glucose (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-6					Specimen CH-7					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	380	75.9	3.2	4.3	76	68 - 84	379	99.1	3.6	3.6	99	89 - 109
All Alfa Wassermann Reagents	64	76.4	2.0	2.6	77	68 - 85	67	99.0	2.7	2.8	99	89 - 109
All Horiba Pentra Reagents	22	73.9	2.9	3.9	75	66 - 82	21	96.9	4.5	4.6	96	87 - 107
All Roche Integra/c111/c501 Reagents	44	73.5	2.1	2.9	73	66 - 81	44	95.8	2.8	2.9	95	86 - 106
All Vital Diagnostics Reagents	25	78.5	2.5	3.1	79	70 - 87	27	101.4	3.5	3.5	102	91 - 112
Abaxis Piccolo												
Abaxis Piccolo - waived	17	79.5	1.9	2.4	80	71 - 88	17	101.2	1.9	1.9	101	91 - 112
Abaxis Piccolo	10	82.1	6.8	8.2	80	73 - 91	10	102.0	1.4	1.4	103	91 - 113
All Chemistry Instruments	25	79.4	1.4	1.7	80	71 - 88	27	101.5	1.8	1.7	102	91 - 112
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	59	76.5	2.2	2.8	77	68 - 85	59	98.7	2.4	2.4	99	88 - 109
Beckman - cartridge												
All Chemistry Instruments	11	75.3	1.5	2.0	75	67 - 83	11	99.3	2.8	2.8	100	89 - 110
Beckman AU												
Beckman AU systems	25	73.9	2.7	3.7	74	66 - 82	25	95.8	2.8	2.9	95	86 - 106
Carolina Liquid Chemistries												
All Chemistry Instruments	13	77.3	3.8	5.0	77	69 - 86	13	101.6	4.9	4.8	101	91 - 112
Cholestech LDX												
Cholestech LDX - waived	11	70.7	4.0	5.7	71	63 - 78	11	96.1	5.0	5.3	96	86 - 106
All Chemistry Instruments	12	70.7	3.8	5.4	71	63 - 78	12	95.6	5.1	5.4	96	86 - 106
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	73.9	3.0	4.1	75	66 - 82	19	96.9	4.7	4.8	96	87 - 107
Roche Integra												
Roche Integra	35	73.6	2.2	3.0	73	66 - 81	35	96.0	2.7	2.8	95	86 - 106
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	77.6	2.0	2.6	77	69 - 86	58	101.5	2.5	2.4	102	91 - 112
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	78.4	2.6	3.3	79	70 - 87	17	101.9	2.8	2.8	103	91 - 113
All Chemistry Instruments	24	78.5	2.5	3.2	79	70 - 87	25	101.8	3.1	3.1	102	91 - 112
VITROS												
VITROS 250,350,500,700,750,950	37	74.3	2.0	2.7	75	66 - 82	37	99.5	2.3	2.3	100	89 - 110
All Chemistry Instruments	47	74.4	2.0	2.7	75	66 - 82	48	99.6	2.7	2.7	100	89 - 110

Glucose (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-8					Specimen CH-9					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	362	88.0	3.3	3.8	88	79 - 97	357	204.2	5.9	2.9	204	183 - 225
All Alfa Wassermann Reagents	64	88.6	2.2	2.5	89	79 - 98	65	204.5	4.9	2.4	205	184 - 225
All Horiba Pentra Reagents	22	86.5	3.3	3.9	87	77 - 96	21	204.4	7.1	3.5	205	183 - 225
All Roche Integra/c111/c501 Reagents	44	86.6	1.9	2.2	86	77 - 96	44	203.1	5.1	2.5	203	182 - 224
All Vital Diagnostics Reagents	26	90.5	2.3	2.5	90	81 - 100	27	208.2	4.8	2.3	208	187 - 230
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	91	82 - 101	9	-	-	-	205	185 - 227
Abaxis Piccolo	9	-	-	-	91	82 - 101	9	-	-	-	207	185 - 227
All Chemistry Instruments	17	91.5	1.6	1.7	91	82 - 101	18	205.8	11.2	5.4	206	185 - 227
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	57	88.8	2.1	2.3	89	79 - 98	58	205.2	4.4	2.1	206	184 - 226
Beckman - cartridge												
All Chemistry Instruments	11	88.2	1.9	2.2	88	79 - 97	11	203.5	4.8	2.3	203	183 - 224
Beckman AU												
Beckman AU systems	25	87.0	3.4	3.9	87	78 - 96	24	205.7	5.9	2.9	205	185 - 227
Carolina Liquid Chemistries												
All Chemistry Instruments	13	91.2	5.5	6.1	91	82 - 101	13	213.8	8.2	3.8	212	192 - 236
Cholestech LDX												
Cholestech LDX - waived	3	-	-	-	78	79 - 97	3	-	-	-	195	183 - 225
All Chemistry Instruments	4	-	-	-	79	71 - 87	4	-	-	-	193	173 - 212
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	86.8	3.4	4.0	88	78 - 96	20	206.1	9.8	4.7	206	185 - 227
Roche Integra												
Roche Integra	35	86.8	1.9	2.2	86	78 - 96	35	203.5	5.0	2.4	203	183 - 224
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	88.9	2.3	2.6	89	80 - 98	60	204.6	4.0	2.0	204	184 - 226
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	90.8	2.7	2.9	91	81 - 100	17	208.5	4.7	2.3	208	187 - 230
All Chemistry Instruments	25	90.5	2.3	2.6	90	81 - 100	25	208.4	4.5	2.2	208	187 - 230
VITROS												
VITROS 250,350,500,700,750,950	37	84.5	2.0	2.4	85	76 - 93	35	197.0	4.5	2.3	198	177 - 217
All Chemistry Instruments	47	84.6	2.0	2.4	85	76 - 94	48	198.3	5.9	3.0	198	178 - 219

Glucose (mg/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	358	145.9	4.5	3.1	146	131 - 161
All Alfa Wassermann Reagents	65	145.0	4.2	2.9	146	130 - 160
All Horiba Pentra Reagents	22	143.5	4.3	3.0	143	129 - 158
All Roche Integra/c111/c501 Reagents	43	142.9	3.5	2.4	142	128 - 158
All Vital Diagnostics Reagents	27	149.7	3.7	2.5	149	134 - 165
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	147	132 - 162
Abaxis Piccolo	9	-	-	-	147	132 - 162
All Chemistry Instruments	18	147.0	1.8	1.2	147	132 - 162
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	58	145.2	4.1	2.8	146	130 - 160
Beckman - cartridge						
All Chemistry Instruments	11	147.5	3.0	2.1	147	132 - 163
Beckman AU						
Beckman AU systems	25	143.0	5.5	3.8	142	128 - 158
Carolina Liquid Chemistries						
All Chemistry Instruments	13	151.8	7.1	4.7	151	136 - 168
Cholestech LDX						
Cholestech LDX - waived	3	-	-	-	140	131 - 161
All Chemistry Instruments	4	-	-	-	140	126 - 156
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	143.8	4.3	3.0	143	129 - 159
Roche Integra						
Roche Integra	34	143.0	3.5	2.5	142	128 - 158
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	59	148.0	3.1	2.1	148	133 - 163
Vital Diagnostics						
Vital Diagnostics Envoy 500	17	150.6	4.0	2.7	150	135 - 166
All Chemistry Instruments	25	149.9	3.5	2.4	149	134 - 165
VITROS						
VITROS 250,350,500,700,750,950	37	145.3	3.5	2.4	146	130 - 160
All Chemistry Instruments	47	145.5	4.1	2.8	146	130 - 161

Iron (mcg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	130	164.9	11.3	6.9	162	131 - 198	130	251.7	21.2	8.4	246	201 - 303
All Alfa Wassermann Reagents	11	158.0	8.9	5.6	160	126 - 190	11	235.9	9.2	3.9	237	188 - 284
All Roche Integra/c111/c501 Reagents	16	165.8	3.6	2.2	166	132 - 199	16	249.3	4.5	1.8	249	199 - 300
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	10	158.2	9.3	5.9	160	126 - 190	10	236.6	9.4	4.0	238	189 - 284
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	10	168.0	5.5	3.3	170	134 - 202	10	255.6	7.2	2.8	255	204 - 307
All Chemistry Instruments	11	168.1	5.2	3.1	169	134 - 202	11	255.6	6.8	2.7	255	204 - 307
Beckman AU												
Beckman AU systems	15	181.5	2.6	1.4	181	145 - 218	16	274.6	6.3	2.3	276	219 - 330
Roche Integra												
Roche Integra	13	165.4	3.8	2.3	165	132 - 199	13	248.9	5.0	2.0	248	199 - 299
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	30	159.3	2.1	1.3	159	127 - 192	30	241.0	3.3	1.4	241	192 - 290
VITROS												
All Chemistry Instruments	14	181.2	7.6	4.2	182	144 - 218	14	294.2	12.6	4.3	295	235 - 354
<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	129	113.1	6.5	5.8	112	90 - 136	130	158.5	10.0	6.3	157	126 - 191
All Alfa Wassermann Reagents	11	112.1	6.0	5.3	111	89 - 135	11	151.6	6.1	4.0	152	121 - 182
All Roche Integra/c111/c501 Reagents	16	113.6	2.8	2.5	114	90 - 137	16	159.9	3.0	1.9	161	127 - 192
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	10	112.2	6.3	5.6	112	89 - 135	10	151.9	6.3	4.2	154	121 - 183
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	10	116.7	3.9	3.3	116	93 - 141	10	164.4	4.6	2.8	164	131 - 198
All Chemistry Instruments	11	116.6	3.7	3.1	116	93 - 140	11	164.5	4.4	2.7	164	131 - 198
Beckman AU												
Beckman AU systems	15	123.9	2.5	2.0	124	99 - 149	16	172.6	4.5	2.6	173	138 - 208
Roche Integra												
Roche Integra	13	113.2	2.9	2.6	112	90 - 136	13	159.9	3.3	2.0	161	127 - 192
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	31	110.0	1.7	1.6	110	88 - 133	31	152.5	2.3	1.5	152	122 - 184
VITROS												
All Chemistry Instruments	14	118.2	3.9	3.3	117	94 - 142	14	171.1	8.5	5.0	175	136 - 206

Iron (mcg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	130	232.1	18.2	7.9	228	185 - 279
All Alfa Wassermann Reagents	11	219.2	9.0	4.1	221	175 - 264
All Roche Integra/c111/c501 Reagents	16	230.5	3.5	1.5	231	184 - 277
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	10	219.9	9.1	4.2	222	175 - 264
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	10	238.4	5.5	2.3	240	190 - 287
All Chemistry Instruments	11	238.5	5.3	2.2	240	190 - 287
Beckman AU						
Beckman AU systems	16	253.1	5.7	2.2	253	202 - 304
Roche Integra						
Roche Integra	13	230.5	3.9	1.7	231	184 - 277
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	31	222.7	3.0	1.4	222	178 - 268
VITROS						
All Chemistry Instruments	14	266.9	12.8	4.8	267	213 - 321

Magnesium (mg/dL)**Specimen CH-6****Specimen CH-7**

<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	164	3.97	0.26	6.5	3.9	2.9 - 5.0	164	2.84	0.19	6.6	2.8	2.1 - 3.6
All Alfa Wassermann Reagents	13	3.87	0.21	5.3	3.8	2.9 - 4.9	13	2.77	0.16	5.8	2.7	2.0 - 3.5
All Horiba Pentra Reagents	15	3.81	0.38	10.1	3.8	2.8 - 4.8	15	2.74	0.39	14.1	2.7	2.0 - 3.5
All Roche Integra/c111/c501 Reagents	22	3.87	0.12	3.0	3.9	2.9 - 4.9	23	2.81	0.13	4.6	2.8	2.1 - 3.6
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	11	3.86	0.21	5.3	3.8	2.8 - 4.9	11	2.77	0.17	6.3	2.7	2.0 - 3.5
Beckman AU												
Beckman AU systems	16	3.82	0.16	4.1	3.9	2.8 - 4.8	16	2.71	0.13	4.8	2.7	2.0 - 3.4
Carolina Liquid Chemistries												
All Chemistry Instruments	10	3.81	0.20	5.3	3.8	2.8 - 4.8	10	2.92	0.13	4.5	2.9	2.1 - 3.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	3.82	0.39	10.3	3.8	2.8 - 4.8	14	2.76	0.39	14.3	2.8	2.0 - 3.5
Roche Integra												
Roche Integra	15	3.89	0.10	2.5	3.9	2.9 - 4.9	16	2.83	0.14	4.8	2.8	2.1 - 3.6
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	31	4.10	0.16	4.0	4.1	3.0 - 5.2	31	2.91	0.13	4.3	2.9	2.1 - 3.7
Vital Diagnostics												
All Chemistry Instruments	10	3.80	0.32	8.4	3.9	2.8 - 4.8	10	2.81	0.28	10.0	2.9	2.1 - 3.6
VITROS												
VITROS 250,350,500,700,750,950	16	4.37	0.17	3.8	4.4	3.2 - 5.5	16	3.01	0.13	4.2	3.0	2.2 - 3.8
All Chemistry Instruments	24	4.32	0.17	3.9	4.3	3.2 - 5.5	24	3.01	0.16	5.4	3.0	2.2 - 3.8

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-8					Specimen CH-9					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	164	4.32	0.29	6.8	4.3	3.2 - 5.4	164	2.31	0.17	7.4	2.3	1.7 - 2.9
All Alfa Wassermann Reagents	13	4.24	0.26	6.1	4.2	3.1 - 5.3	13	2.22	0.18	8.2	2.2	1.6 - 2.8
All Horiba Pentra Reagents	15	4.05	0.35	8.8	4.1	3.0 - 5.1	15	2.25	0.35	15.7	2.2	1.6 - 2.9
All Roche Integra/c111/c501 Reagents	22	4.25	0.12	2.8	4.2	3.1 - 5.4	22	2.29	0.09	4.1	2.3	1.7 - 2.9
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	11	4.25	0.27	6.3	4.2	3.1 - 5.4	11	2.24	0.19	8.3	2.2	1.6 - 2.8
Beckman AU												
Beckman AU systems	16	4.18	0.15	3.7	4.2	3.1 - 5.3	16	2.19	0.11	5.0	2.2	1.6 - 2.8
Carolina Liquid Chemistries												
All Chemistry Instruments	10	4.06	0.21	5.1	4.0	3.0 - 5.1	10	2.39	0.18	7.5	2.4	1.7 - 3.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	4.06	0.36	8.9	4.2	3.0 - 5.1	14	2.26	0.37	16.1	2.3	1.6 - 2.9
Roche Integra												
Roche Integra	16	4.29	0.21	4.8	4.3	3.2 - 5.4	16	2.32	0.14	6.1	2.3	1.7 - 2.9
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	30	4.48	0.15	3.4	4.5	3.3 - 5.7	31	2.32	0.12	5.4	2.3	1.7 - 2.9
Vital Diagnostics												
All Chemistry Instruments	10	4.07	0.34	8.3	4.2	3.0 - 5.1	10	2.32	0.28	12.0	2.4	1.7 - 2.9
VITROS												
VITROS 250,350,500,700,750,950	16	4.76	0.16	3.4	4.8	3.5 - 6.0	16	2.47	0.10	4.1	2.4	1.8 - 3.1
All Chemistry Instruments	24	4.74	0.19	4.0	4.7	3.5 - 6.0	24	2.47	0.11	4.4	2.5	1.8 - 3.1
Specimen CH-10												
All Method	161	2.44	0.16	6.6	2.4	1.8 - 3.1						
All Alfa Wassermann Reagents	13	2.31	0.16	7.0	2.3	1.7 - 2.9						
All Horiba Pentra Reagents	15	2.44	0.36	14.7	2.4	1.8 - 3.1						
All Roche Integra/c111/c501 Reagents	22	2.41	0.11	4.5	2.4	1.8 - 3.1						
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	11	2.31	0.18	7.6	2.3	1.7 - 2.9						
Beckman AU												
Beckman AU systems	16	2.34	0.11	4.7	2.4	1.7 - 3.0						
Carolina Liquid Chemistries												
All Chemistry Instruments	10	2.60	0.14	5.4	2.6	1.9 - 3.3						
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	2.46	0.37	14.9	2.4	1.8 - 3.1						
Roche Integra												
Roche Integra	16	2.48	0.15	6.2	2.5	1.8 - 3.1						
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	31	2.47	0.13	5.2	2.5	1.8 - 3.1						
Vital Diagnostics												
All Chemistry Instruments	10	2.41	0.29	12.0	2.5	1.8 - 3.1						
VITROS												
VITROS 250,350,500,700,750,950	16	2.58	0.10	3.9	2.6	1.9 - 3.3						
All Chemistry Instruments	24	2.57	0.13	5.2	2.6	1.9 - 3.3						

Phosphorus (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-6					<u>Labs</u>	Specimen CH-7				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	143	4.50	0.21	4.8	4.5	4.0 - 5.0	144	3.12	0.26	8.4	3.1	2.7 - 3.5
All Alfa Wassermann Reagents	22	4.42	0.19	4.4	4.4	3.9 - 4.9	22	2.90	0.19	6.5	2.9	2.5 - 3.3
All Roche Integra/c111/c501 Reagents	21	4.46	0.12	2.6	4.5	3.9 - 5.0	21	3.04	0.09	2.8	3.1	2.7 - 3.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	20	4.44	0.20	4.4	4.4	3.9 - 5.0	20	2.91	0.19	6.6	2.9	2.5 - 3.3
Beckman - cartridge												
All Chemistry Instruments	10	4.59	0.17	3.6	4.6	4.0 - 5.1	10	3.27	0.23	7.1	3.2	2.9 - 3.7
Beckman AU												
Beckman AU systems	10	4.26	0.08	2.0	4.3	3.8 - 4.8	10	2.85	0.11	3.8	2.8	2.5 - 3.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	4.78	0.11	2.3	4.8	4.2 - 5.3	11	3.49	0.07	2.0	3.5	3.1 - 3.9
Roche Integra												
Roche Integra	14	4.45	0.12	2.8	4.5	3.9 - 5.0	14	3.03	0.10	3.3	3.1	2.7 - 3.4
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	4.45	0.09	2.0	4.5	3.9 - 5.0	26	3.04	0.09	3.0	3.0	2.7 - 3.4
VITROS												
VITROS 250,350,500,700,750,950	11	4.51	0.12	2.7	4.5	4.0 - 5.0	11	3.38	0.11	3.2	3.4	3.0 - 3.8
All Chemistry Instruments	15	4.52	0.11	2.5	4.5	4.0 - 5.1	16	3.38	0.14	4.2	3.4	3.0 - 3.8
<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-8					<u>Labs</u>	Specimen CH-9				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	139	4.93	0.17	3.4	4.9	4.4 - 5.5	142	2.56	0.25	9.9	2.5	2.2 - 2.9
All Alfa Wassermann Reagents	21	4.94	0.08	1.6	5.0	4.4 - 5.5	22	2.38	0.20	8.4	2.4	2.0 - 2.7
All Roche Integra/c111/c501 Reagents	21	4.91	0.12	2.5	4.9	4.3 - 5.5	21	2.51	0.09	3.4	2.5	2.2 - 2.9
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	20	4.95	0.08	1.7	5.0	4.4 - 5.5	20	2.39	0.21	8.6	2.4	2.0 - 2.7
Beckman - cartridge												
All Chemistry Instruments	10	5.08	0.15	2.9	5.1	4.5 - 5.7	10	2.87	0.36	12.6	2.7	2.5 - 3.2
Beckman AU												
Beckman AU systems	10	4.72	0.12	2.6	4.7	4.2 - 5.3	10	2.36	0.08	3.6	2.4	2.0 - 2.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	5.10	0.12	2.3	5.1	4.5 - 5.7	11	2.83	0.05	1.7	2.8	2.5 - 3.2
Roche Integra												
Roche Integra	14	4.89	0.13	2.6	4.9	4.3 - 5.5	15	2.54	0.15	6.1	2.5	2.2 - 2.9
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	4.86	0.08	1.6	4.9	4.3 - 5.4	25	2.44	0.06	2.4	2.4	2.1 - 2.8
VITROS												
VITROS 250,350,500,700,750,950	11	4.89	0.14	3.0	4.9	4.3 - 5.5	11	2.93	0.11	3.8	2.9	2.6 - 3.3
All Chemistry Instruments	16	4.86	0.20	4.0	4.9	4.3 - 5.4	16	2.91	0.15	5.0	3.0	2.6 - 3.3

Phosphorus (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-10				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	143	2.61	0.28	10.9	2.6	2.3 - 3.0
All Alfa Wassermann Reagents	22	2.35	0.20	8.5	2.3	2.0 - 2.7
All Roche Integra/c111/c501						
Reagents	20	2.55	0.06	2.4	2.6	2.2 - 2.9
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	20	2.34	0.21	8.9	2.3	2.0 - 2.7
Beckman - cartridge						
All Chemistry Instruments	10	2.83	0.36	12.7	2.7	2.5 - 3.2
Beckman AU						
Beckman AU systems	10	2.37	0.08	3.5	2.4	2.0 - 2.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	3.03	0.05	1.5	3.0	2.7 - 3.4
Roche Integra						
Roche Integra	15	2.54	0.18	7.1	2.5	2.2 - 2.9
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	26	2.54	0.10	3.9	2.5	2.2 - 2.9
VITROS						
VITROS 250,350,500,700,750,950	11	2.96	0.09	3.1	3.0	2.6 - 3.3
All Chemistry Instruments	16	2.96	0.13	4.3	3.0	2.6 - 3.3

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-6					Specimen CH-7					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	6.14	0.24	4.0	6.1	5.5 - 6.8	355	8.39	0.35	4.2	8.4	7.5 - 9.3
All Alfa Wassermann Reagents	62	6.13	0.14	2.3	6.1	5.5 - 6.8	62	8.37	0.20	2.4	8.4	7.5 - 9.3
All Horiba Pentra Reagents	22	6.16	0.16	2.6	6.1	5.5 - 6.8	22	8.37	0.24	2.9	8.4	7.5 - 9.3
All Roche Integra/c111/c501 Reagents	43	6.04	0.18	3.0	6.0	5.4 - 6.7	43	8.23	0.20	2.4	8.2	7.4 - 9.1
All Vital Diagnostics Reagents	25	6.16	0.18	2.8	6.2	5.5 - 6.8	24	8.43	0.16	1.9	8.4	7.5 - 9.3
Abaxis Piccolo												
Abaxis Piccolo - waived	16	6.43	0.10	1.6	6.4	5.7 - 7.1	16	8.81	0.17	1.9	8.8	7.9 - 9.7
Abaxis Piccolo	10	6.48	0.11	1.8	6.4	5.8 - 7.2	10	8.69	0.11	1.3	8.7	7.8 - 9.6
All Chemistry Instruments	26	6.45	0.11	1.7	6.4	5.8 - 7.1	25	8.74	0.12	1.3	8.8	7.8 - 9.7
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	56	6.13	0.14	2.2	6.1	5.5 - 6.8	55	8.36	0.18	2.1	8.4	7.5 - 9.2
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	11	5.88	0.18	3.0	5.9	5.2 - 6.5	11	8.11	0.20	2.4	8.0	7.2 - 9.0
All Chemistry Instruments	12	5.91	0.19	3.3	5.9	5.3 - 6.5	12	8.14	0.22	2.7	8.1	7.3 - 9.0
Beckman AU												
Beckman AU systems	24	6.09	0.14	2.3	6.1	5.4 - 6.7	25	8.36	0.24	2.8	8.3	7.5 - 9.2
All Chemistry Instruments	26	6.05	0.19	3.1	6.1	5.4 - 6.7	26	8.34	0.24	2.9	8.3	7.5 - 9.2
Carolina Liquid Chemistries												
All Chemistry Instruments	14	5.92	0.22	3.7	5.9	5.3 - 6.6	14	8.13	0.29	3.6	8.1	7.3 - 9.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	6.16	0.17	2.8	6.1	5.5 - 6.8	20	8.38	0.25	3.0	8.4	7.5 - 9.3
Roche Integra												
Roche Integra	35	6.01	0.17	2.8	6.0	5.4 - 6.7	35	8.20	0.20	2.5	8.2	7.3 - 9.1
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	6.38	0.13	2.0	6.4	5.7 - 7.1	60	8.78	0.18	2.0	8.8	7.8 - 9.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	6.11	0.16	2.6	6.1	5.5 - 6.8	16	8.39	0.13	1.5	8.4	7.5 - 9.3
All Chemistry Instruments	23	6.15	0.18	2.9	6.1	5.5 - 6.8	22	8.43	0.16	1.9	8.4	7.5 - 9.3
VITROS												
VITROS 250,350,500,700,750,950	36	5.83	0.15	2.6	5.8	5.2 - 6.5	36	7.87	0.19	2.4	7.9	7.0 - 8.7
All Chemistry Instruments	42	5.85	0.16	2.8	5.8	5.2 - 6.5	42	7.89	0.20	2.6	7.9	7.0 - 8.7

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	4.61	0.18	3.8	4.6	4.1 - 5.1	344	5.20	0.18	3.5	5.2	4.6 - 5.8
All Alfa Wassermann Reagents	62	4.61	0.13	2.9	4.6	4.1 - 5.1	61	5.18	0.12	2.3	5.2	4.6 - 5.7
All Horiba Pentra Reagents	22	4.60	0.14	3.1	4.6	4.1 - 5.1	22	5.17	0.14	2.7	5.2	4.6 - 5.7
All Roche Integra/c111/c501 Reagents	42	4.53	0.12	2.6	4.5	4.0 - 5.0	42	5.11	0.12	2.3	5.1	4.5 - 5.7
All Vital Diagnostics Reagents	25	4.61	0.13	2.8	4.6	4.1 - 5.1	25	5.16	0.16	3.2	5.1	4.6 - 5.7
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	4.9	4.3 - 5.4	8	-	-	-	5.5	4.9 - 6.0
Abaxis Piccolo	9	-	-	-	4.8	4.3 - 5.4	9	-	-	-	5.4	4.9 - 6.0
All Chemistry Instruments	17	4.85	0.10	2.1	4.8	4.3 - 5.4	17	5.45	0.14	2.6	5.4	4.9 - 6.0
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	55	4.62	0.10	2.2	4.6	4.1 - 5.1	56	5.18	0.11	2.1	5.2	4.6 - 5.8
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	11	4.39	0.09	2.1	4.4	3.9 - 4.9	11	4.98	0.12	2.3	5.0	4.4 - 5.5
All Chemistry Instruments	12	4.41	0.11	2.5	4.4	3.9 - 4.9	12	5.00	0.13	2.6	5.0	4.5 - 5.5
Beckman AU												
Beckman AU systems	25	4.56	0.13	2.9	4.6	4.1 - 5.1	24	5.14	0.11	2.1	5.1	4.6 - 5.7
All Chemistry Instruments	26	4.55	0.14	3.1	4.6	4.0 - 5.1	25	5.13	0.11	2.2	5.1	4.6 - 5.7
Carolina Liquid Chemistries												
All Chemistry Instruments	14	4.43	0.19	4.4	4.4	3.9 - 4.9	14	4.95	0.22	4.5	4.9	4.4 - 5.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	4.61	0.15	3.2	4.6	4.1 - 5.1	20	5.17	0.15	2.8	5.2	4.6 - 5.7
Roche Integra												
Roche Integra	35	4.51	0.11	2.5	4.5	4.0 - 5.0	34	5.08	0.11	2.1	5.1	4.5 - 5.6
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	4.77	0.09	2.0	4.8	4.2 - 5.3	60	5.36	0.10	1.9	5.4	4.8 - 5.9
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	4.56	0.08	1.8	4.6	4.1 - 5.1	16	5.14	0.10	2.0	5.1	4.6 - 5.7
All Chemistry Instruments	23	4.60	0.13	2.8	4.6	4.1 - 5.1	23	5.18	0.16	3.1	5.1	4.6 - 5.7
VITROS												
VITROS 250,350,500,700,750,950	36	4.44	0.15	3.5	4.4	3.9 - 4.9	36	5.14	0.15	3.0	5.2	4.6 - 5.7
All Chemistry Instruments	42	4.46	0.15	3.4	4.4	4.0 - 5.0	42	5.15	0.15	2.9	5.2	4.6 - 5.7

Protein, Total (g/dL)
Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	345	7.60	0.29	3.8	7.6	6.8 - 8.4
All Alfa Wassermann Reagents	63	7.61	0.21	2.8	7.6	6.8 - 8.4
All Horiba Pentra Reagents	22	7.56	0.24	3.1	7.5	6.8 - 8.4
All Roche Integra/c111/c501 Reagents	42	7.44	0.19	2.5	7.4	6.6 - 8.2
All Vital Diagnostics Reagents	24	7.59	0.16	2.1	7.6	6.8 - 8.4
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	7.9	7.0 - 8.7
Abaxis Piccolo	9	-	-	-	7.9	7.0 - 8.7
All Chemistry Instruments	17	7.88	0.12	1.5	7.9	7.0 - 8.7
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	56	7.62	0.18	2.4	7.6	6.8 - 8.4
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	11	7.35	0.18	2.4	7.3	6.6 - 8.1
All Chemistry Instruments	12	7.38	0.20	2.7	7.4	6.6 - 8.2
Beckman AU						
Beckman AU systems	24	7.57	0.17	2.2	7.5	6.8 - 8.4
All Chemistry Instruments	25	7.55	0.19	2.5	7.5	6.7 - 8.4
Carolina Liquid Chemistries						
All Chemistry Instruments	14	7.34	0.30	4.1	7.4	6.6 - 8.1
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	7.57	0.25	3.3	7.5	6.8 - 8.4
Roche Integra						
Roche Integra	34	7.40	0.18	2.5	7.4	6.6 - 8.2
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	58	7.92	0.12	1.6	7.9	7.1 - 8.8
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	7.57	0.13	1.7	7.6	6.8 - 8.4
All Chemistry Instruments	22	7.59	0.15	2.0	7.6	6.8 - 8.4
VITROS						
VITROS 250,350,500,700,750,950	36	7.32	0.20	2.7	7.3	6.5 - 8.1
All Chemistry Instruments	42	7.32	0.20	2.7	7.3	6.5 - 8.1

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	363	15.1	1.1	7.5	15	13 - 18	365	25.0	1.9	7.6	25	22 - 28
All Alfa Wassermann Reagents	65	15.5	0.9	6.0	15	13 - 18	66	26.0	1.2	4.7	26	23 - 29
All Horiba Pentra Reagents	22	15.1	1.0	6.9	15	13 - 18	22	24.9	1.2	4.9	25	22 - 28
All Roche Integra/c111/c501 Reagents	44	14.7	0.6	4.3	15	12 - 17	44	24.5	1.0	3.9	24	22 - 27
All Vital Diagnostics Reagents	27	16.7	1.0	6.2	17	14 - 19	27	27.0	1.5	5.4	27	24 - 30
Abaxis Piccolo												
Abaxis Piccolo - waived	16	14.7	0.6	4.1	15	12 - 17	17	23.8	0.7	3.1	24	21 - 26
Abaxis Piccolo	10	14.8	0.6	4.3	15	12 - 17	10	23.9	0.7	3.1	24	21 - 27
All Chemistry Instruments	26	14.7	0.6	4.1	15	12 - 17	27	23.9	0.7	3.0	24	21 - 26
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	45	15.5	1.0	6.2	15	13 - 18	46	26.0	1.2	4.7	26	23 - 29
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	20	15.5	0.9	5.7	15	13 - 18	20	26.1	1.2	4.6	26	23 - 29
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	11	16.3	0.6	4.0	16	14 - 19	11	26.5	0.5	2.0	27	24 - 29
All Chemistry Instruments	12	16.3	0.6	3.8	16	14 - 19	12	26.4	0.7	2.5	27	24 - 29
Beckman AU												
Beckman AU systems	25	15.5	0.8	5.0	15	13 - 18	24	25.7	0.9	3.4	26	23 - 28
Carolina Liquid Chemistries												
All Chemistry Instruments	13	15.5	1.3	8.1	16	13 - 18	13	25.8	1.6	6.1	26	23 - 29
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	15.0	1.0	6.5	15	13 - 17	20	25.0	1.3	5.1	25	22 - 28
Roche Integra												
Roche Integra	35	14.6	0.6	4.4	15	12 - 17	35	24.5	1.0	4.0	24	22 - 27
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	15.4	0.8	5.0	15	13 - 18	60	25.8	0.9	3.5	26	23 - 29
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	16.8	0.8	4.8	17	14 - 19	17	27.1	1.0	3.7	27	24 - 30
All Chemistry Instruments	25	16.8	1.0	5.7	17	14 - 19	25	27.2	1.3	4.9	27	24 - 30
VITROS												
VITROS 250,350,500,700,750,950	37	13.6	0.6	4.1	14	11 - 16	37	21.6	0.6	2.6	22	19 - 24
All Chemistry Instruments	47	13.6	0.6	4.6	14	11 - 16	47	21.5	0.7	3.0	22	19 - 24

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	13.3	1.0	7.9	13	11 - 16	356	35.0	2.8	8.1	36	31 - 39
All Alfa Wassermann Reagents	66	13.7	0.9	6.6	14	11 - 16	66	36.9	1.8	4.9	37	33 - 41
All Horiba Pentra Reagents	22	13.1	0.8	6.3	13	11 - 16	22	34.7	1.5	4.3	34	31 - 38
All Roche Integra/c111/c501 Reagents	45	12.8	0.7	5.4	13	10 - 15	45	34.7	1.2	3.5	35	31 - 38
All Vital Diagnostics Reagents	26	14.8	1.1	7.3	15	12 - 17	27	37.0	2.0	5.3	37	33 - 41
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	13	11 - 16	9	-	-	-	32	29 - 36
Abaxis Piccolo	9	-	-	-	13	11 - 16	9	-	-	-	33	29 - 36
All Chemistry Instruments	18	13.2	0.8	6.0	13	11 - 16	18	32.6	0.8	2.6	33	29 - 36
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	46	13.7	0.9	6.3	14	11 - 16	46	37.0	1.8	4.8	37	33 - 41
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	20	13.8	1.0	7.4	14	11 - 16	20	36.7	1.8	5.0	36	33 - 40
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	11	14.0	0.4	3.2	14	12 - 16	11	36.7	0.8	2.1	37	33 - 41
All Chemistry Instruments	12	13.9	0.5	3.7	14	11 - 16	12	36.6	0.9	2.5	37	33 - 40
Beckman AU												
Beckman AU systems	25	13.7	0.6	4.5	14	11 - 16	24	36.2	1.3	3.5	36	32 - 40
Carolina Liquid Chemistries												
All Chemistry Instruments	13	13.8	1.0	7.1	14	11 - 16	13	36.5	2.2	6.1	36	33 - 40
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	13.2	0.9	6.7	13	11 - 16	20	34.7	1.5	4.4	34	31 - 38
Roche Integra												
Roche Integra	36	12.8	0.8	5.9	13	10 - 15	36	34.6	1.3	3.7	35	31 - 38
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	13.4	0.7	5.5	13	11 - 16	60	36.2	1.2	3.3	36	32 - 40
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	15.1	0.9	5.7	15	13 - 18	17	36.9	1.4	3.9	37	33 - 41
All Chemistry Instruments	24	15.0	0.9	5.7	15	13 - 18	25	37.2	1.9	5.1	37	33 - 41
VITROS												
VITROS 250,350,500,700,750,950	37	11.9	0.5	3.9	12	9 - 14	37	29.5	0.8	2.7	29	26 - 33
All Chemistry Instruments	46	11.9	0.4	3.7	12	9 - 14	47	29.4	0.9	3.2	29	26 - 33

Urea Nitrogen (mg/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	356	31.0	2.4	7.8	31	28 - 34
All Alfa Wassermann Reagents	65	32.5	1.2	3.8	32	29 - 36
All Horiba Pentra Reagents	22	30.9	1.4	4.7	31	28 - 34
All Roche Integra/c111/c501 Reagents	42	30.4	0.9	3.1	30	27 - 34
All Vital Diagnostics Reagents	27	33.1	1.8	5.4	33	30 - 37
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	29	26 - 32
Abaxis Piccolo	9	-	-	-	29	26 - 32
All Chemistry Instruments	18	29.2	0.8	2.7	29	26 - 32
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	44	32.5	1.0	3.1	32	29 - 36
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	20	32.6	1.5	4.5	32	29 - 36
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	11	32.8	0.6	1.8	33	29 - 36
All Chemistry Instruments	12	32.7	0.8	2.4	33	29 - 36
Beckman AU						
Beckman AU systems	25	31.7	1.3	4.0	32	28 - 35
Carolina Liquid Chemistries						
All Chemistry Instruments	13	32.4	2.1	6.4	33	29 - 36
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	30.9	1.5	4.9	31	28 - 34
Roche Integra						
Roche Integra	33	30.4	1.0	3.2	30	27 - 34
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	59	32.0	1.0	3.1	32	29 - 35
Vital Diagnostics						
Vital Diagnostics Envoy 500	17	33.3	1.4	4.1	33	30 - 37
All Chemistry Instruments	25	33.3	1.6	4.8	33	30 - 37
VITROS						
VITROS 250,350,500,700,750,950	37	26.5	0.8	2.9	26	24 - 29
All Chemistry Instruments	47	26.4	0.9	3.4	26	23 - 29

Uric Acid (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-6					Specimen CH-7					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	227	4.25	0.39	9.1	4.1	3.5 - 5.0	227	4.88	0.42	8.6	4.8	4.0 - 5.8
All Alfa Wassermann Reagents	38	5.01	0.15	3.0	5.0	4.1 - 5.9	38	5.67	0.18	3.1	5.7	4.7 - 6.7
All Roche Integra/c111/c501												
Reagents	26	4.00	0.11	2.7	4.0	3.3 - 4.7	26	4.60	0.12	2.6	4.6	3.8 - 5.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	34	5.01	0.16	3.2	5.0	4.1 - 5.9	34	5.67	0.17	3.0	5.6	4.7 - 6.7
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	11	4.10	0.09	2.2	4.1	3.4 - 4.8	11	4.62	0.08	1.6	4.6	3.8 - 5.5
All Chemistry Instruments	14	4.11	0.08	2.0	4.1	3.4 - 4.9	14	4.63	0.07	1.6	4.6	3.8 - 5.5
Beckman AU												
Beckman AU systems	18	4.29	0.17	4.0	4.3	3.5 - 5.1	18	4.88	0.15	3.2	4.9	4.0 - 5.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	3.95	0.14	3.6	4.0	3.2 - 4.7	16	4.50	0.16	3.6	4.5	3.7 - 5.3
Roche Integra												
Roche Integra	22	3.98	0.11	2.8	4.0	3.3 - 4.7	22	4.59	0.11	2.4	4.6	3.8 - 5.4
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	40	4.09	0.12	3.0	4.1	3.3 - 4.8	40	4.75	0.18	3.7	4.7	3.9 - 5.6
Vital Diagnostics												
Vital Diagnostics Envoy 500	11	4.47	0.53	11.7	4.3	3.7 - 5.3	11	5.13	0.55	10.7	5.0	4.2 - 6.0
All Chemistry Instruments	14	4.24	0.19	4.6	4.2	3.5 - 5.0	14	4.86	0.24	4.9	4.9	4.0 - 5.7
VITROS												
VITROS 250,350,500,700,750,950	25	4.06	0.12	2.9	4.1	3.3 - 4.8	25	4.79	0.12	2.6	4.8	3.9 - 5.7
All Chemistry Instruments	30	4.07	0.12	3.0	4.1	3.3 - 4.8	30	4.80	0.14	2.8	4.8	3.9 - 5.7

Uric Acid (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	5.27	0.31	5.9	5.2	4.3 - 6.2	223	11.36	0.50	4.4	11.3	9.4 - 13.3
All Alfa Wassermann Reagents	39	5.74	0.16	2.8	5.7	4.7 - 6.8	39	11.76	0.35	2.9	11.7	9.7 - 13.8
All Roche Integra/c111/c501												
Reagents	26	5.11	0.13	2.5	5.1	4.2 - 6.0	26	11.23	0.23	2.0	11.3	9.3 - 13.2
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	35	5.74	0.17	2.9	5.8	4.7 - 6.8	35	11.76	0.36	3.1	11.7	9.7 - 13.8
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	11	5.18	0.09	1.7	5.2	4.3 - 6.1	11	10.82	0.40	3.7	10.7	8.9 - 12.7
All Chemistry Instruments	14	5.17	0.08	1.6	5.2	4.2 - 6.1	14	10.71	0.41	3.9	10.7	8.8 - 12.6
Beckman AU												
Beckman AU systems	18	5.43	0.17	3.2	5.4	4.5 - 6.4	17	11.92	0.16	1.3	11.9	9.8 - 14.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	5.05	0.09	1.7	5.1	4.1 - 6.0	15	11.13	0.19	1.7	11.2	9.2 - 13.1
Roche Integra												
Roche Integra	22	5.09	0.12	2.4	5.1	4.2 - 6.0	22	11.25	0.24	2.1	11.3	9.3 - 13.2
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	39	5.10	0.13	2.6	5.1	4.2 - 6.0	40	11.21	0.19	1.7	11.2	9.3 - 13.2
Vital Diagnostics												
Vital Diagnostics Envoy 500	11	5.42	0.21	3.9	5.4	4.4 - 6.4	11	11.82	0.43	3.6	11.7	9.8 - 13.9
All Chemistry Instruments	15	5.32	0.25	4.7	5.3	4.4 - 6.3	15	11.58	0.55	4.8	11.6	9.6 - 13.6
VITROS												
VITROS 250,350,500,700,750,950	25	5.03	0.15	3.0	5.1	4.1 - 5.9	24	11.06	0.24	2.2	11.1	9.1 - 13.0
All Chemistry Instruments	30	5.04	0.16	3.1	5.1	4.1 - 6.0	29	11.09	0.26	2.3	11.1	9.2 - 13.0

Uric Acid (mg/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	224	7.53	0.36	4.8	7.4	6.2 - 8.9
All Alfa Wassermann Reagents	39	7.98	0.19	2.4	8.0	6.6 - 9.4
All Roche Integra/c111/c501 Reagents	25	7.36	0.16	2.2	7.4	6.1 - 8.7
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	35	7.99	0.20	2.6	8.0	6.6 - 9.4
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	11	7.16	0.13	1.8	7.1	5.9 - 8.4
All Chemistry Instruments	14	7.13	0.14	1.9	7.1	5.9 - 8.4
Beckman AU						
Beckman AU systems	17	7.75	0.10	1.3	7.7	6.4 - 9.1
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	7.22	0.16	2.2	7.3	5.9 - 8.5
Roche Integra						
Roche Integra	21	7.33	0.15	2.0	7.4	6.0 - 8.6
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	39	7.36	0.19	2.6	7.4	6.1 - 8.7
Vital Diagnostics						
Vital Diagnostics Envoy 500	11	7.81	0.35	4.5	7.8	6.4 - 9.2
All Chemistry Instruments	15	7.64	0.42	5.5	7.7	6.3 - 9.0
VITROS						
VITROS 250,350,500,700,750,950	25	7.37	0.17	2.3	7.4	6.1 - 8.7
All Chemistry Instruments	30	7.40	0.21	2.8	7.4	6.1 - 8.7

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	115.5	3.1	2.7	116	109 - 122	354	115.6	3.4	2.9	116	109 - 122
Abaxis Piccolo												
Abaxis Piccolo - waived	18	112.0	1.9	1.7	112	106 - 118	18	111.6	1.5	1.4	112	106 - 118
Abaxis Piccolo	10	112.6	2.2	1.9	112	106 - 119	10	112.1	2.2	1.9	112	106 - 118
All Chemistry Instruments	28	112.2	2.0	1.8	112	106 - 118	28	111.8	1.8	1.6	112	106 - 118
ISE Diluted												
Beckman AU systems	23	113.8	1.2	1.1	114	108 - 120	22	112.4	1.1	1.0	113	106 - 118
Beckman Synchron	10	115.9	3.0	2.6	116	110 - 122	10	115.5	4.2	3.7	116	109 - 122
Roche Integra	32	115.8	1.6	1.4	116	109 - 122	33	115.5	2.0	1.8	115	109 - 122
Siemens Dimension QuickLyte -												
Xpand/EXL	34	118.2	1.5	1.2	118	112 - 125	34	117.5	1.7	1.5	118	111 - 124
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	118.8	1.1	1.0	119	112 - 125	13	118.2	1.8	1.5	118	112 - 125
Vital Diagnostics Envoy 500	16	116.2	2.2	1.9	116	110 - 122	16	118.5	2.3	2.0	119	112 - 125
All Chemistry Instruments	175	116.1	2.7	2.4	116	110 - 122	176	115.8	3.2	2.7	116	110 - 122
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	61	117.0	1.5	1.3	117	111 - 123	60	118.0	1.4	1.2	118	112 - 124
Horiba ABX Pentra 400	12	117.9	4.3	3.6	117	112 - 124	10	118.5	4.5	3.8	118	112 - 125
All Chemistry Instruments	98	116.8	2.3	2.0	117	110 - 123	98	117.7	2.8	2.4	118	111 - 124
VITROS												
VITROS 250,350,500,700,750,950	35	111.9	1.7	1.5	112	106 - 118	36	112.4	1.8	1.6	113	106 - 118
All Chemistry Instruments	41	112.0	1.7	1.5	112	106 - 118	42	112.5	1.9	1.6	113	106 - 119

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	110.7	2.3	2.1	111	105 - 117	344	91.9	2.1	2.3	92	87 - 97
Abaxis Piccolo												
Abaxis Piccolo - waived	10	108.7	1.3	1.2	109	103 - 115	10	93.4	1.6	1.7	93	88 - 99
Abaxis Piccolo	9	-	-	-	108	102 - 114	9	-	-	-	94	88 - 99
All Chemistry Instruments	19	108.3	1.4	1.3	108	102 - 114	19	93.6	1.8	1.9	93	88 - 99
ISE Diluted												
Beckman AU systems	23	110.3	1.2	1.0	110	104 - 116	23	92.0	1.1	1.2	92	87 - 97
Beckman Synchron	10	112.6	3.3	3.0	114	106 - 119	10	96.5	3.6	3.8	98	91 - 102
Roche Integra	32	111.2	1.2	1.1	111	105 - 117	33	91.6	1.4	1.5	91	86 - 97
Siemens Dimension QuickLyte -												
Xpand/EXL	34	113.0	1.2	1.1	113	107 - 119	34	90.2	0.9	1.0	90	85 - 95
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	113.3	1.3	1.2	113	107 - 119	13	89.2	1.8	2.0	89	84 - 94
Vital Diagnostics Envoy 500	16	110.4	2.1	1.9	110	104 - 116	16	93.8	2.0	2.2	94	89 - 99
All Chemistry Instruments	172	111.4	2.1	1.9	111	105 - 117	172	91.2	2.1	2.3	91	86 - 96
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	62	111.1	1.4	1.2	111	105 - 117	61	92.0	1.8	1.9	92	87 - 97
Horiba ABX Pentra 400	12	112.3	3.0	2.7	112	106 - 118	12	93.4	1.8	2.0	94	88 - 99
All Chemistry Instruments	96	111.1	1.7	1.6	111	105 - 117	99	92.4	1.8	1.9	93	87 - 97
VITROS												
VITROS 250,350,500,700,750,950	36	108.0	1.6	1.5	108	102 - 114	36	91.8	1.4	1.5	92	87 - 97
All Chemistry Instruments	42	108.1	1.7	1.6	108	102 - 114	42	91.9	1.5	1.6	92	87 - 97

Chloride (mmol/L)**Specimen CH-10**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	342	106.1	2.3	2.2	106	100 - 112
Abaxis Piccolo						
Abaxis Piccolo - waived	10	104.1	1.3	1.2	104	98 - 110
Abaxis Piccolo	9	-	-	-	104	99 - 110
All Chemistry Instruments	19	104.6	1.6	1.5	104	99 - 110
ISE Diluted						
Beckman AU systems	23	104.4	1.6	1.5	104	99 - 110
Beckman Synchron	10	107.4	2.9	2.7	109	102 - 113
Roche Integra	32	105.8	1.6	1.5	106	100 - 112
Siemens Dimension QuickLyte -						
Xpand/EXL	34	106.4	1.4	1.3	107	101 - 112
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	13	106.7	1.2	1.1	107	101 - 113
Vital Diagnostics Envoy 500	15	108.7	2.6	2.4	108	103 - 115
All Chemistry Instruments	173	105.9	2.2	2.0	106	100 - 112
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	62	107.5	1.7	1.6	107	102 - 113
Horiba ABX Pentra 400	12	109.0	4.7	4.3	109	103 - 115
All Chemistry Instruments	97	107.3	2.2	2.1	107	101 - 113
VITROS						
VITROS 250,350,500,700,750,950	36	104.4	1.8	1.7	105	99 - 110
All Chemistry Instruments	42	104.6	1.8	1.8	105	99 - 110

CO₂ (mmol/L)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	33.5	2.7	7.9	34	26 - 41	353	31.5	2.8	9.0	32	25 - 38
Enzymatic Reagent												
Abaxis Piccolo - waived	15	33.9	1.2	3.4	34	27 - 41	15	31.8	1.1	3.4	32	25 - 39
Alfa Wassermann ACE/NexCT/Alera	42	34.5	2.4	7.0	35	27 - 42	42	31.4	2.6	8.2	32	25 - 38
Beckman AU systems	23	34.2	2.3	6.7	34	27 - 42	24	32.8	2.2	6.8	33	26 - 40
Horiba ABX Pentra 400	10	32.9	1.6	4.8	33	26 - 40	10	30.4	2.0	6.4	31	24 - 37
Roche Integra	33	33.0	2.9	8.8	33	26 - 40	33	30.5	2.8	9.1	31	24 - 37
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	38	35.7	1.8	5.1	36	28 - 43	38	33.6	1.5	4.4	34	26 - 41
All Chemistry Instruments	208	34.0	2.7	8.0	34	27 - 41	208	31.7	2.8	8.8	32	25 - 39
ISE Diluted												
Beckman Synchron	10	33.5	1.4	4.3	34	26 - 41	10	31.2	3.1	9.9	31	24 - 38
Vital Diagnostics Envoy 500	15	32.1	4.3	13.5	32	25 - 39	15	30.1	3.3	10.8	30	24 - 37
All Chemistry Instruments	53	33.2	2.7	8.2	33	26 - 40	54	31.6	3.3	10.4	31	25 - 38
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	17	33.9	3.7	11.0	35	27 - 41	17	31.8	3.2	9.9	33	25 - 39
All Chemistry Instruments	37	33.4	3.2	9.6	34	26 - 41	37	31.5	2.9	9.2	32	25 - 38
VITROS												
VITROS 250,350,500,700,750,950	33	31.9	1.7	5.2	32	25 - 39	33	29.9	2.0	6.8	30	23 - 36
All Chemistry Instruments	39	31.8	1.6	5.1	32	25 - 39	39	29.7	2.1	7.2	30	23 - 36
<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	31.4	2.7	8.6	32	25 - 38	337	17.4	1.9	11.0	17	13 - 21
Enzymatic Reagent												
Abaxis Piccolo - waived	8	-	-	-	33	25 - 39	8	-	-	-	19	13 - 21
Alfa Wassermann ACE/NexCT/Alera	42	32.4	2.6	8.1	33	25 - 39	42	17.0	2.5	14.8	18	13 - 21
Beckman AU systems	24	32.3	2.2	6.7	32	25 - 39	24	17.8	1.7	9.6	17	14 - 22
Horiba ABX Pentra 400	10	30.9	1.2	3.9	31	24 - 38	10	17.1	1.4	8.0	18	13 - 21
Roche Integra	33	30.9	2.7	8.9	31	24 - 38	33	16.7	2.4	14.4	16	13 - 21
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	38	33.3	1.5	4.5	33	26 - 41	37	18.2	1.5	8.3	18	14 - 22
All Chemistry Instruments	197	32.1	2.4	7.6	32	25 - 39	200	17.5	2.2	12.7	18	13 - 21
ISE Diluted												
Beckman Synchron	10	30.9	2.4	7.8	31	24 - 38	10	18.4	1.8	10.0	18	14 - 23
Vital Diagnostics Envoy 500	15	28.8	2.3	8.1	29	23 - 35	14	16.1	1.7	10.3	16	12 - 20
All Chemistry Instruments	54	31.0	2.8	9.1	31	24 - 38	53	17.5	2.0	11.3	17	14 - 22
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	17	31.8	3.3	10.3	31	25 - 39	17	16.8	2.0	12.2	17	13 - 21
All Chemistry Instruments	37	31.4	3.2	10.2	31	25 - 38	37	16.9	2.0	12.0	17	13 - 21
VITROS												
VITROS 250,350,500,700,750,950	33	29.8	1.7	5.6	30	23 - 36	33	17.0	1.5	8.7	17	13 - 21
All Chemistry Instruments	39	29.6	1.7	5.6	30	23 - 36	38	16.9	1.4	8.3	17	13 - 21

CO₂ (mmol/L)**Specimen CH-10**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	343	25.1	2.7	10.9	25	20 - 31
Enzymatic Reagent						
Abaxis Piccolo - waived	8	-	-	-	27	20 - 31
Alfa Wassermann ACE/NexCT/Alera	41	24.8	2.8	11.2	25	19 - 30
Beckman AU systems	24	25.8	2.2	8.6	26	20 - 31
Horiba ABX Pentra 400	10	24.9	2.0	8.1	26	19 - 30
Roche Integra	33	24.3	3.2	13.2	25	19 - 30
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	38	26.7	1.5	5.6	27	21 - 33
All Chemistry Instruments	198	25.5	2.6	10.4	26	20 - 31
ISE Diluted						
Beckman Synchron	10	25.5	2.7	10.7	26	20 - 31
Vital Diagnostics Envoy 500	15	24.0	2.9	11.9	24	19 - 29
All Chemistry Instruments	54	25.4	2.9	11.6	26	20 - 31
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	17	23.9	2.7	11.5	24	19 - 29
All Chemistry Instruments	37	24.5	2.6	10.6	24	19 - 30
VITROS						
VITROS 250,350,500,700,750,950	32	23.4	1.7	7.4	24	18 - 29
All Chemistry Instruments	39	23.2	2.1	9.1	24	18 - 28

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	5.59	0.14	2.6	5.6	5.0 - 6.1	362	5.80	0.18	3.0	5.8	5.3 - 6.4
Abaxis Piccolo												
Abaxis Piccolo - waived	17	5.75	0.20	3.5	5.8	5.2 - 6.3	18	5.89	0.19	3.3	5.9	5.3 - 6.4
Abaxis Piccolo	10	5.97	0.30	5.1	6.0	5.4 - 6.5	10	6.00	0.23	3.8	6.0	5.5 - 6.5
All Chemistry Instruments	27	5.83	0.26	4.5	5.8	5.3 - 6.4	28	5.93	0.21	3.6	5.9	5.4 - 6.5
ISE Diluted												
Beckman AU systems	21	5.51	0.09	1.5	5.5	5.0 - 6.1	22	5.67	0.07	1.3	5.7	5.1 - 6.2
Roche Integra	32	5.53	0.07	1.2	5.5	5.0 - 6.1	33	5.72	0.06	1.1	5.7	5.2 - 6.3
Siemens Dimension QuickLyte -												
Xpand/EXL	34	5.59	0.07	1.2	5.6	5.0 - 6.1	35	5.75	0.06	1.1	5.7	5.2 - 6.3
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	12	5.53	0.08	1.4	5.5	5.0 - 6.1	12	5.69	0.07	1.2	5.7	5.1 - 6.2
Vital Diagnostics Envoy 500	15	5.38	0.14	2.6	5.4	4.8 - 5.9	14	5.56	0.13	2.4	5.5	5.0 - 6.1
All Chemistry Instruments	168	5.52	0.10	1.9	5.5	5.0 - 6.1	166	5.71	0.09	1.5	5.7	5.2 - 6.3
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	62	5.74	0.08	1.4	5.7	5.2 - 6.3	62	6.02	0.08	1.3	6.0	5.5 - 6.6
Horiba ABX Pentra 400	13	5.44	0.07	1.2	5.4	4.9 - 6.0	13	5.69	0.06	1.1	5.7	5.1 - 6.2
All Chemistry Instruments	107	5.64	0.15	2.7	5.7	5.1 - 6.2	108	5.89	0.19	3.3	6.0	5.3 - 6.4
VITROS												
VITROS 250,350,500,700,750,950	37	5.61	0.08	1.4	5.6	5.1 - 6.2	36	5.91	0.07	1.2	5.9	5.4 - 6.5
All Chemistry Instruments	47	5.61	0.08	1.5	5.6	5.1 - 6.2	45	5.92	0.09	1.5	5.9	5.4 - 6.5

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	4.98	0.12	2.5	5.0	4.4 - 5.5	354	3.14	0.09	2.9	3.1	2.6 - 3.7
Abaxis Piccolo												
Abaxis Piccolo - waived	10	5.22	0.14	2.7	5.2	4.7 - 5.8	10	3.18	0.15	4.6	3.2	2.6 - 3.7
Abaxis Piccolo	9	-	-	-	5.3	4.8 - 5.9	9	-	-	-	3.3	2.7 - 3.8
All Chemistry Instruments	19	5.31	0.21	3.9	5.3	4.8 - 5.9	19	3.24	0.17	5.3	3.2	2.7 - 3.8
ISE Diluted												
Beckman AU systems	22	4.96	0.07	1.3	5.0	4.4 - 5.5	22	3.12	0.06	1.9	3.1	2.6 - 3.7
Roche Integra	32	4.97	0.05	1.1	5.0	4.4 - 5.5	33	3.14	0.06	1.8	3.1	2.6 - 3.7
Siemens Dimension QuickLyte -												
Xpand/EXL	35	5.00	0.06	1.1	5.0	4.4 - 5.5	35	3.10	0.04	1.2	3.1	2.6 - 3.7
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	12	4.96	0.07	1.3	5.0	4.4 - 5.5	12	3.08	0.06	1.9	3.1	2.5 - 3.6
Vital Diagnostics Envoy 500	15	4.83	0.13	2.7	4.8	4.3 - 5.4	15	3.01	0.05	1.7	3.0	2.5 - 3.6
All Chemistry Instruments	169	4.95	0.09	1.8	5.0	4.4 - 5.5	171	3.10	0.07	2.3	3.1	2.5 - 3.6
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	61	5.04	0.06	1.3	5.0	4.5 - 5.6	62	3.16	0.06	2.0	3.2	2.6 - 3.7
Horiba ABX Pentra 400	13	4.81	0.06	1.3	4.8	4.3 - 5.4	13	3.20	0.08	2.6	3.2	2.7 - 3.7
All Chemistry Instruments	106	4.99	0.12	2.5	5.0	4.4 - 5.5	107	3.16	0.08	2.5	3.2	2.6 - 3.7
VITROS												
VITROS 250,350,500,700,750,950	37	4.98	0.09	1.8	5.0	4.4 - 5.5	37	3.21	0.05	1.7	3.2	2.7 - 3.8
All Chemistry Instruments	47	5.00	0.10	2.0	5.0	4.4 - 5.5	47	3.21	0.06	1.7	3.2	2.7 - 3.8

Potassium (mmol/L)

Specimen CH-10

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	352	4.77	0.13	2.7	4.8	4.2 - 5.3
Abaxis Piccolo						
Abaxis Piccolo - waived	10	4.81	0.16	3.3	4.8	4.3 - 5.4
Abaxis Piccolo	9	-	-	-	5.0	4.4 - 5.5
All Chemistry Instruments	19	4.92	0.24	4.9	4.9	4.4 - 5.5
ISE Diluted						
Beckman AU systems	22	4.69	0.06	1.4	4.7	4.1 - 5.2
Roche Integra	31	4.73	0.06	1.3	4.7	4.2 - 5.3
Siemens Dimension QuickLyte -						
Xpand/EXL	35	4.73	0.05	1.1	4.7	4.2 - 5.3
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	12	4.69	0.08	1.7	4.7	4.1 - 5.2
Vital Diagnostics Envoy 500	15	4.59	0.12	2.7	4.6	4.0 - 5.1
All Chemistry Instruments	169	4.70	0.08	1.6	4.7	4.1 - 5.2
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	62	4.88	0.07	1.5	4.9	4.3 - 5.4
Horiba ABX Pentra 400	13	4.75	0.07	1.4	4.7	4.2 - 5.3
All Chemistry Instruments	106	4.81	0.11	2.4	4.8	4.3 - 5.4
VITROS						
VITROS 250,350,500,700,750,950	37	4.92	0.07	1.4	4.9	4.4 - 5.5
All Chemistry Instruments	47	4.92	0.08	1.6	4.9	4.4 - 5.5

Sodium (mmol/L)

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

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	361	150.2	2.9	2.0	150	146 - 155	363	151.4	4.1	2.7	151	147 - 156
Abaxis Piccolo												
Abaxis Piccolo - waived	17	153.6	1.9	1.2	154	149 - 158	18	157.2	2.4	1.5	158	153 - 162
Abaxis Piccolo	10	155.1	2.6	1.6	156	151 - 160	10	156.0	2.3	1.4	157	152 - 160
All Chemistry Instruments	27	154.2	2.2	1.5	154	150 - 159	28	156.8	2.4	1.5	157	152 - 161
ISE Diluted												
Beckman AU systems	22	147.5	1.9	1.3	148	143 - 152	22	147.0	1.1	0.7	147	143 - 152
Roche Integra	32	147.2	1.6	1.1	147	143 - 152	33	147.1	1.4	1.0	147	143 - 152
Siemens Dimension QuickLyte -												
Xpand/EXL	35	149.7	1.6	1.1	150	145 - 154	35	148.9	1.3	0.9	149	144 - 153
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	147.8	1.6	1.1	148	143 - 152	13	147.5	1.7	1.2	148	143 - 152
Vital Diagnostics Envoy 500	15	148.1	2.0	1.4	148	144 - 153	15	148.5	1.6	1.1	149	144 - 153
All Chemistry Instruments	170	148.5	1.9	1.3	148	144 - 153	170	148.2	1.8	1.2	148	144 - 153
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	63	151.4	1.7	1.1	151	147 - 156	60	154.2	1.3	0.8	154	150 - 159
Horiba ABX Pentra 400	14	150.1	1.6	1.0	150	146 - 155	14	153.3	1.7	1.1	153	149 - 158
All Chemistry Instruments	109	150.7	2.2	1.5	151	146 - 155	108	152.9	2.9	1.9	154	148 - 157
VITROS												
VITROS 250,350,500,700,750,950	37	153.8	1.8	1.2	153	149 - 158	37	157.1	1.9	1.2	157	153 - 162
All Chemistry Instruments	43	153.9	2.2	1.4	154	149 - 158	42	157.0	1.9	1.2	157	153 - 161

Sodium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	144.1	2.1	1.5	144	140 - 149	353	122.9	2.1	1.7	123	118 - 127
Abaxis Piccolo												
Abaxis Piccolo - waived	10	146.8	1.4	1.0	147	142 - 151	10	125.3	1.9	1.5	125	121 - 130
Abaxis Piccolo	9	-	-	-	146	142 - 151	9	-	-	-	125	121 - 130
All Chemistry Instruments	18	146.6	1.4	0.9	147	142 - 151	19	125.1	2.1	1.7	125	121 - 130
ISE Diluted												
Beckman AU systems	21	142.9	0.9	0.7	143	138 - 147	22	121.8	1.1	0.9	122	117 - 126
Roche Integra	32	142.2	1.2	0.9	142	138 - 147	33	121.2	1.2	1.0	121	117 - 126
Siemens Dimension QuickLyte -												
Xpand/EXL	35	144.8	1.4	1.0	145	140 - 149	35	123.7	1.1	0.9	124	119 - 128
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	143.6	1.5	1.0	144	139 - 148	13	122.8	1.9	1.5	123	118 - 127
Vital Diagnostics Envoy 500	15	143.8	1.9	1.3	143	139 - 148	15	121.7	1.6	1.3	122	117 - 126
All Chemistry Instruments	168	143.5	1.7	1.2	143	139 - 148	172	122.4	1.6	1.3	122	118 - 127
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	63	143.5	1.3	0.9	143	139 - 148	63	121.7	1.4	1.2	122	117 - 126
Horiba ABX Pentra 400	14	143.1	1.7	1.2	143	139 - 148	14	123.6	1.7	1.4	123	119 - 128
All Chemistry Instruments	108	143.5	1.6	1.1	143	139 - 148	109	122.3	1.8	1.5	122	118 - 127
VITROS												
VITROS 250,350,500,700,750,950	37	146.8	2.0	1.3	147	142 - 151	37	125.4	1.8	1.5	125	121 - 130
All Chemistry Instruments	43	147.0	2.2	1.5	147	143 - 151	43	125.5	2.0	1.6	126	121 - 130

Sodium (mmol/L)

Specimen CH-10

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	350	139.9	3.2	2.3	140	135 - 144
Abaxis Piccolo						
Abaxis Piccolo - waived	10	144.7	3.6	2.5	144	140 - 149
Abaxis Piccolo	9	-	-	-	144	139 - 148
All Chemistry Instruments	18	143.5	1.9	1.3	144	139 - 148
ISE Diluted						
Beckman AU systems	22	137.0	1.3	1.0	137	133 - 141
Roche Integra	32	136.6	1.4	1.0	137	132 - 141
Siemens Dimension QuickLyte -						
Xpand/EXL	35	138.9	1.4	1.0	139	134 - 143
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	13	137.9	2.0	1.5	138	133 - 142
Vital Diagnostics Envoy 500	15	137.5	1.7	1.3	137	133 - 142
All Chemistry Instruments	171	137.9	1.8	1.3	138	133 - 142
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	62	141.0	1.3	1.0	141	137 - 146
Horiba ABX Pentra 400	14	142.0	1.7	1.2	141	138 - 146
All Chemistry Instruments	107	140.7	2.1	1.5	141	136 - 145
VITROS						
VITROS 250,350,500,700,750,950	37	145.5	2.2	1.5	145	141 - 150
All Chemistry Instruments	43	145.5	2.4	1.6	145	141 - 150

TIBC – Calculated (µg/dL)

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	33	250.8	60.2	24.0	270	130 - 372	34	359.1	88.2	24.6	371	182 - 536
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	33	250.8	60.2	24.0	270	130 - 372	34	359.1	88.2	24.6	371	182 - 536
			Specimen CH-8						Specimen CH-9			
			<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	33	186.4	41.1	22.1	203	104 - 269	33	216.5	45.9	21.2	231	124 - 309
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	33	186.4	41.1	22.1	203	104 - 269	33	216.5	45.9	21.2	231	124 - 309
			Specimen CH-10									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	34	322.6	72.2	22.4	336	178 - 467						
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	34	322.6	72.2	22.4	336	178 - 467						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method Siemens (Dade) Healthcare Siemens Dimension/AR/ES/RxL/Xpand/EXL VITROS	47	243.1	58.5	24.1	213	126 - 361	47	332.1	86.0	25.9	301	160 - 505
Siemens Dimension/AR/ES/RxL/Xpand/EXL VITROS	24	206.9	11.0	5.3	208	165 - 249	25	296.1	9.8	3.3	296	236 - 356
All Chemistry Instruments	10	311.1	79.7	25.6	343	151 - 471	10	434.6	135.0	31.1	495	164 - 705
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method Siemens (Dade) Healthcare Siemens Dimension/AR/ES/RxL/Xpand/EXL VITROS	47	183.9	46.1	25.1	166	91 - 277	47	205.8	44.4	21.6	188	117 - 295
Siemens Dimension/AR/ES/RxL/Xpand/EXL VITROS	25	149.6	10.3	6.9	150	119 - 180	24	176.2	9.6	5.4	177	140 - 212
All Chemistry Instruments	10	237.1	48.0	20.3	254	141 - 334	10	255.0	47.9	18.8	268	159 - 351
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method Siemens (Dade) Healthcare Siemens Dimension/AR/ES/RxL/Xpand/EXL VITROS	47	301.5	71.9	23.9	274	157 - 446						
Siemens Dimension/AR/ES/RxL/Xpand/EXL VITROS	25	268.1	9.3	3.5	269	214 - 322						
All Chemistry Instruments	10	384.8	109.8	28.5	420	165 - 605						

UIBC – Direct (µg/dL)

Specimen CH-6							Specimen CH-7					
<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	106.4	10.2	9.6	109	85 - 128	36	123.7	11.3	9.1	126	98 - 149
All Roche Integra/c 501 reagents	14	105.4	9.2	8.7	106	84 - 127	14	122.6	9.5	7.7	125	98 - 148
Beckman AU												
Beckman AU systems	11	110.5	5.7	5.1	112	88 - 133	11	130.6	6.3	4.9	132	104 - 157
Roche Integra												
Roche Integra	12	106.5	9.5	8.9	107	85 - 128	12	124.2	9.2	7.4	127	99 - 150
Specimen CH-8							Specimen CH-9					
All Method	35	88.4	7.9	8.9	88	70 - 107	35	71.9	9.1	12.6	71	53 - 91
All Roche Integra/c 501 reagents	14	87.0	7.3	8.3	86	69 - 105	14	69.8	7.7	11.1	70	54 - 86
Beckman AU												
Beckman AU systems	11	92.0	7.5	8.2	89	73 - 111	11	77.6	11.5	14.8	75	54 - 101
Roche Integra												
Roche Integra	12	87.8	7.5	8.6	87	70 - 106	12	70.3	8.1	11.6	70	53 - 87
Specimen CH-10												
All Method	35	106.5	11.5	10.8	111	83 - 130						
All Roche Integra/c 501 reagents	14	105.3	11.0	10.4	107	83 - 128						
Beckman AU												
Beckman AU systems	11	113.5	4.9	4.3	113	90 - 137						
Roche Integra												
Roche Integra	12	106.0	11.7	11.1	109	82 - 130						

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	361	63.5	8.7	13.7	63	50 - 77	359	134.0	13.0	9.7	134	107 - 161
All Horiba Pentra Reagents	20	69.1	2.4	3.5	69	55 - 83	20	149.1	4.7	3.2	148	119 - 179
All Roche Integra/c111/c501 Reagents	43	61.2	1.4	2.3	61	48 - 74	43	132.9	2.5	1.9	133	106 - 160
All Vital Diagnostics Reagents	25	66.5	3.5	5.3	68	53 - 80	27	141.9	8.1	5.7	144	113 - 171
Abaxis Piccolo												
Abaxis Piccolo - waived	16	61.9	2.4	3.9	62	49 - 75	16	124.6	3.6	2.9	126	99 - 150
Abaxis Piccolo	10	61.1	3.9	6.3	61	48 - 74	10	122.6	4.6	3.8	122	98 - 148
All Chemistry Instruments	26	61.6	3.0	4.9	62	49 - 74	26	123.8	4.1	3.3	125	99 - 149
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	34	50.1	2.2	4.4	51	40 - 61	34	115.1	4.1	3.5	116	92 - 139
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	27	50.4	2.2	4.4	51	40 - 61	29	115.5	4.0	3.5	116	92 - 139
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	11	63.9	2.1	3.2	65	51 - 77	11	135.6	2.9	2.1	136	108 - 163
All Chemistry Instruments	14	63.1	2.6	4.1	64	50 - 76	14	134.3	4.1	3.0	136	107 - 162
Beckman AU												
Beckman AU systems	25	56.5	1.5	2.7	57	45 - 68	25	122.4	3.8	3.1	123	97 - 147
Carolina Liquid Chemistries												
All Chemistry Instruments	12	61.6	2.1	3.4	62	49 - 74	12	131.4	6.3	4.8	132	105 - 158
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	69.1	2.6	3.8	69	55 - 83	17	149.1	5.1	3.4	148	119 - 179
All Chemistry Instruments	18	69.1	2.5	3.7	69	55 - 83	18	148.9	5.0	3.3	148	119 - 179
Roche Integra												
Roche Integra	36	61.0	1.4	2.3	61	48 - 74	36	132.8	2.5	1.9	133	106 - 160
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	73.4	4.8	6.5	73	58 - 89	61	149.3	3.8	2.5	149	119 - 180
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	67.8	2.1	3.1	68	54 - 82	16	146.5	4.2	2.9	147	117 - 176
All Chemistry Instruments	24	66.9	3.0	4.4	68	53 - 81	25	142.7	7.3	5.1	144	114 - 172
VITROS												
VITROS 250,350,500,700,750,950	36	72.3	3.4	4.7	73	57 - 87	36	139.4	4.7	3.4	140	111 - 168
All Chemistry Instruments	42	72.3	3.5	4.9	73	57 - 87	42	139.6	5.1	3.6	139	111 - 168

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	47.0	8.3	17.7	46	37 - 57	350	192.8	17.0	8.8	195	154 - 232
All Horiba Pentra Reagents	20	50.6	1.7	3.4	50	40 - 61	20	213.6	7.1	3.3	212	170 - 257
All Roche Integra/c111/c501 Reagents	43	44.3	1.1	2.6	44	35 - 54	42	192.6	3.6	1.9	192	154 - 232
All Vital Diagnostics Reagents	27	47.1	2.5	5.2	47	37 - 57	27	202.1	9.8	4.9	204	161 - 243
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	46	36 - 56	8	-	-	-	173	138 - 208
Abaxis Piccolo	9	-	-	-	45	36 - 56	9	-	-	-	174	138 - 208
All Chemistry Instruments	17	45.9	3.5	7.6	46	36 - 56	17	172.8	8.6	5.0	174	138 - 208
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	35	35.4	2.1	6.1	36	28 - 43	36	169.9	6.5	3.8	171	135 - 204
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	28	35.9	2.4	6.6	36	28 - 44	29	170.9	4.2	2.4	171	136 - 206
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	11	46.8	1.7	3.6	47	37 - 57	11	194.7	3.5	1.8	194	155 - 234
All Chemistry Instruments	14	46.2	2.0	4.3	47	36 - 56	14	192.6	5.5	2.9	194	154 - 232
Beckman AU												
Beckman AU systems	25	40.5	1.4	3.6	41	32 - 49	25	174.3	4.4	2.5	175	139 - 210
Carolina Liquid Chemistries												
All Chemistry Instruments	12	43.9	2.1	4.8	45	35 - 53	12	188.7	10.5	5.6	189	150 - 227
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	50.7	1.8	3.6	50	40 - 61	17	214.0	7.6	3.6	212	171 - 257
All Chemistry Instruments	18	50.7	1.8	3.5	50	40 - 61	18	213.9	7.4	3.5	213	171 - 257
Roche Integra												
Roche Integra	36	44.1	1.1	2.5	44	35 - 53	35	192.6	3.7	1.9	192	154 - 232
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	54.7	4.6	8.5	54	43 - 66	61	208.0	5.0	2.4	208	166 - 250
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	48.1	1.4	2.9	48	38 - 58	16	207.1	5.1	2.5	208	165 - 249
All Chemistry Instruments	24	47.8	1.5	3.2	48	38 - 58	25	203.6	8.4	4.1	205	162 - 245
VITROS												
VITROS 250,350,500,700,750,950	35	60.6	4.1	6.8	60	48 - 73	34	205.9	5.3	2.6	206	164 - 248
All Chemistry Instruments	41	60.5	4.1	6.8	61	48 - 73	40	206.0	5.4	2.6	206	164 - 248

ALT (SGPT) (IU/L)

Specimen CH-10						
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	349	171.6	15.3	8.9	173	137 - 206
All Horiba Pentra Reagents	20	190.7	6.6	3.5	189	152 - 229
All Roche Integra/c111/c501 Reagents	41	170.5	3.3	1.9	170	136 - 205
All Vital Diagnostics Reagents	27	180.8	11.1	6.2	185	144 - 217
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	159	125 - 188
Abaxis Piccolo	9	-	-	-	156	125 - 188
All Chemistry Instruments	17	156.4	5.8	3.7	158	125 - 188
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	35	150.9	4.8	3.2	151	120 - 182
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	29	150.9	4.0	2.6	151	120 - 182
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	11	173.8	3.3	1.9	175	139 - 209
All Chemistry Instruments	14	172.0	4.9	2.9	173	137 - 207
Beckman AU						
Beckman AU systems	25	156.3	4.5	2.9	157	125 - 188
Carolina Liquid Chemistries						
All Chemistry Instruments	12	168.2	8.7	5.2	170	134 - 202
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	190.9	7.1	3.7	189	152 - 230
All Chemistry Instruments	18	190.7	7.0	3.7	189	152 - 229
Roche Integra						
Roche Integra	34	170.3	3.3	1.9	170	136 - 205
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	60	188.2	4.1	2.2	189	150 - 226
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	186.7	4.9	2.6	187	149 - 225
All Chemistry Instruments	25	182.0	10.2	5.6	185	145 - 219
VITROS						
VITROS 250,350,500,700,750,950	36	179.7	5.2	2.9	181	143 - 216
All Chemistry Instruments	42	179.5	5.2	2.9	181	143 - 216

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	352	70.6	10.3	14.6	71	49 - 92	356	164.9	23.3	14.1	167	115 - 215
All Alfa Wassermann Reagents	64	74.1	4.2	5.7	75	51 - 97	64	176.6	8.8	5.0	179	123 - 230
All Horiba Pentra Reagents	20	76.4	4.8	6.2	77	53 - 100	20	181.3	7.8	4.3	182	126 - 236
All Roche Integra/c111/c501 Reagents	42	67.2	2.5	3.7	67	47 - 88	42	159.7	5.5	3.4	160	111 - 208
All Vital Diagnostics Reagents	27	74.7	4.8	6.4	74	52 - 98	27	172.1	9.8	5.7	172	120 - 224
Abaxis Piccolo												
Abaxis Piccolo - waived	15	58.0	7.7	13.3	57	40 - 76	16	128.4	6.9	5.4	128	89 - 167
Abaxis Piccolo	10	52.6	4.9	9.3	52	36 - 69	10	123.8	6.2	5.0	125	86 - 161
All Chemistry Instruments	25	55.8	7.1	12.8	55	39 - 73	26	126.6	6.9	5.5	127	88 - 165
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	46	74.5	4.0	5.4	75	52 - 97	46	177.3	8.7	4.9	179	124 - 231
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	18	73.0	4.6	6.2	74	51 - 95	18	174.8	9.1	5.2	175	122 - 228
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	11	64.8	2.9	4.4	64	45 - 85	11	156.2	6.3	4.0	156	109 - 204
All Chemistry Instruments	14	64.3	2.8	4.3	64	45 - 84	14	155.1	6.2	4.0	155	108 - 202
Beckman AU												
Beckman AU systems	26	66.7	4.9	7.3	67	46 - 87	26	159.1	11.3	7.1	158	111 - 207
Carolina Liquid Chemistries												
All Chemistry Instruments	13	63.7	5.2	8.2	65	44 - 83	13	152.9	11.1	7.3	155	107 - 199
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	76.9	4.7	6.1	77	53 - 101	17	182.5	7.2	3.9	182	127 - 238
All Chemistry Instruments	18	76.4	5.0	6.5	77	53 - 100	18	181.7	7.8	4.3	182	127 - 237
Roche Integra												
Roche Integra	35	67.2	2.5	3.7	67	47 - 88	35	159.6	5.8	3.6	160	111 - 208
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	86.1	9.5	11.1	86	60 - 112	61	192.3	16.4	8.5	190	134 - 251
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	73.5	3.8	5.1	74	51 - 96	16	170.3	9.0	5.3	172	119 - 222
All Chemistry Instruments	25	75.0	4.9	6.5	74	52 - 98	25	172.8	9.8	5.7	172	120 - 225
VITROS												
VITROS 250,350,500,700,750,950	36	59.0	4.0	6.8	59	41 - 77	36	133.6	9.8	7.3	133	93 - 174
All Chemistry Instruments	42	59.0	3.8	6.4	59	41 - 77	42	133.6	9.4	7.0	134	93 - 174

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	338	53.2	8.0	15.0	53	37 - 70	347	241.8	34.4	14.2	248	169 - 315
All Alfa Wassermann Reagents	64	55.6	3.3	5.9	56	38 - 73	64	262.7	13.2	5.0	265	183 - 342
All Horiba Pentra Reagents	20	57.7	2.9	5.0	58	40 - 76	20	267.2	13.2	4.9	271	187 - 348
All Roche Integra/c111/c501 Reagents	42	50.3	1.9	3.9	50	35 - 66	42	237.1	8.9	3.8	238	165 - 309
All Vital Diagnostics Reagents	26	56.2	3.9	6.9	56	39 - 74	26	252.8	11.7	4.6	252	176 - 329
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	45	28 - 54	8	-	-	-	191	131 - 246
Abaxis Piccolo	9	-	-	-	38	28 - 54	9	-	-	-	189	131 - 246
All Chemistry Instruments	17	41.1	5.6	13.7	43	28 - 54	17	188.5	9.4	5.0	190	131 - 246
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	46	55.9	3.2	5.8	56	39 - 73	46	264.1	12.7	4.8	265	184 - 344
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	18	55.1	3.5	6.4	55	38 - 72	18	259.2	14.2	5.5	260	181 - 337
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	11	48.9	2.9	6.0	49	34 - 64	11	230.6	9.8	4.3	230	161 - 300
All Chemistry Instruments	14	48.6	2.8	5.8	49	33 - 64	14	228.4	10.2	4.5	230	159 - 297
Beckman AU												
Beckman AU systems	26	50.5	3.3	6.4	51	35 - 66	26	234.5	15.8	6.7	235	164 - 305
Carolina Liquid Chemistries												
All Chemistry Instruments	13	47.8	4.2	8.8	48	33 - 63	13	223.8	16.1	7.2	226	156 - 292
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	58.1	2.9	5.0	58	40 - 76	17	270.6	11.1	4.1	272	189 - 352
All Chemistry Instruments	18	57.9	3.0	5.1	58	40 - 76	18	269.1	12.4	4.6	272	188 - 350
Roche Integra												
Roche Integra	35	50.3	2.0	4.0	50	35 - 66	35	237.2	9.1	3.8	238	166 - 309
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	67.7	8.9	13.1	68	47 - 89	61	275.2	18.7	6.8	272	192 - 358
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	54.9	3.5	6.4	55	38 - 72	16	250.7	7.2	2.9	251	175 - 326
All Chemistry Instruments	25	55.5	5.0	8.9	56	38 - 73	24	254.5	10.2	4.0	253	178 - 331
VITROS												
VITROS 250,350,500,700,750,950	36	44.1	3.3	7.4	44	30 - 58	36	181.3	12.8	7.1	181	126 - 236
All Chemistry Instruments	42	44.2	3.1	7.0	45	30 - 58	42	180.5	12.4	6.9	179	126 - 235

Alkaline Phosphatase (IU/L)

Specimen CH-10

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	347	218.2	30.8	14.1	222	152 - 284
All Alfa Wassermann Reagents	64	235.5	11.3	4.8	238	164 - 307
All Horiba Pentra Reagents	20	240.9	11.2	4.7	242	168 - 314
All Roche Integra/c111/c501 Reagents	41	211.0	7.0	3.3	212	147 - 275
All Vital Diagnostics Reagents	27	227.4	11.1	4.9	227	159 - 296
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	165	115 - 215
Abaxis Piccolo	9	-	-	-	166	115 - 215
All Chemistry Instruments	17	164.9	8.2	5.0	166	115 - 215
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	46	236.6	11.2	4.7	239	165 - 308
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	18	232.5	11.6	5.0	233	162 - 303
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	11	207.4	9.7	4.7	206	145 - 270
All Chemistry Instruments	14	205.4	9.7	4.7	205	143 - 268
Beckman AU						
Beckman AU systems	26	209.8	14.5	6.9	210	146 - 273
Carolina Liquid Chemistries						
All Chemistry Instruments	13	201.0	15.4	7.7	201	140 - 262
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	243.2	9.9	4.1	243	170 - 317
All Chemistry Instruments	18	241.9	11.1	4.6	243	169 - 315
Roche Integra						
Roche Integra	34	211.0	7.4	3.5	212	147 - 275
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	61	251.5	18.0	7.2	249	176 - 327
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	224.9	7.6	3.4	225	157 - 293
All Chemistry Instruments	25	228.9	9.9	4.3	228	160 - 298
VITROS						
VITROS 250,350,500,700,750,950	36	169.4	13.1	7.7	169	118 - 221
All Chemistry Instruments	42	169.0	12.3	7.3	169	118 - 220

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	360	58.3	13.3	22.9	54	46 - 70	356	125.8	24.6	19.5	116	100 - 151
All Horiba Pentra Reagents	20	52.8	5.5	10.5	54	42 - 64	20	115.1	9.3	8.1	119	92 - 139
All Roche Integra/c111/c501 Reagents	43	52.4	3.1	6.0	52	41 - 63	43	115.0	6.6	5.8	115	91 - 138
All Vital Diagnostics Reagents	27	53.3	4.4	8.3	54	42 - 64	27	115.1	9.8	8.5	119	92 - 139
Abaxis Piccolo												
Abaxis Piccolo - waived	16	55.2	2.7	4.9	55	44 - 67	16	114.9	5.3	4.6	115	91 - 138
Abaxis Piccolo	10	56.5	3.9	6.9	55	45 - 68	10	116.1	6.7	5.8	118	92 - 140
All Chemistry Instruments	26	55.7	3.2	5.8	55	44 - 67	26	115.4	5.8	5.0	115	92 - 139
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	36	44.3	3.7	8.4	45	35 - 54	36	104.1	7.2	6.9	105	83 - 125
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	28	43.5	2.5	5.7	43	34 - 53	29	104.0	5.7	5.5	105	83 - 125
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	11	52.0	3.6	6.9	52	41 - 63	11	112.1	4.5	4.0	112	89 - 135
All Chemistry Instruments	14	51.6	3.6	6.9	52	41 - 62	14	111.4	5.4	4.9	112	89 - 134
Beckman AU												
Beckman AU systems	26	47.8	2.9	6.0	48	38 - 58	26	104.1	6.5	6.3	105	83 - 125
Carolina Liquid Chemistries												
All Chemistry Instruments	12	53.3	2.9	5.5	53	42 - 64	12	115.8	5.5	4.7	115	92 - 139
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	52.4	5.7	10.9	54	41 - 63	18	114.2	9.4	8.3	118	91 - 138
Roche Integra												
Roche Integra	36	51.9	3.1	6.0	52	41 - 63	36	114.1	6.7	5.9	115	91 - 137
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	78.8	3.3	4.2	79	63 - 95	60	164.5	5.1	3.1	165	131 - 198
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	54.5	2.1	3.9	55	43 - 66	16	120.1	5.2	4.3	120	96 - 145
All Chemistry Instruments	25	53.3	4.0	7.6	54	42 - 64	25	115.8	9.6	8.3	119	92 - 139
VITROS												
VITROS 250,350,500,700,750,950	36	74.4	3.2	4.4	75	59 - 90	36	158.1	6.9	4.4	159	126 - 190
All Chemistry Instruments	42	74.7	3.2	4.3	75	59 - 90	42	158.7	7.0	4.4	159	126 - 191

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	42.5	9.7	22.8	39	34 - 52	347	192.2	25.0	13.0	185	153 - 231
All Horiba Pentra Reagents	20	38.8	3.8	9.9	40	31 - 47	20	182.4	13.6	7.5	187	145 - 219
All Roche Integra/c111/c501 Reagents	43	38.3	2.1	5.4	38	30 - 47	43	185.2	8.3	4.5	185	148 - 223
All Vital Diagnostics Reagents	27	39.2	3.2	8.3	40	31 - 48	27	181.3	12.9	7.1	185	145 - 218
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	43	33 - 51	8	-	-	-	181	145 - 218
Abaxis Piccolo	9	-	-	-	42	33 - 51	9	-	-	-	183	145 - 218
All Chemistry Instruments	17	42.2	2.7	6.3	42	33 - 51	17	181.4	7.9	4.3	182	145 - 218
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	35	32.5	2.8	8.7	33	25 - 39	35	172.7	7.5	4.3	173	138 - 208
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	29	31.7	2.9	9.2	31	25 - 39	29	171.2	6.0	3.5	171	136 - 206
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	11	37.7	1.4	3.8	38	30 - 46	11	176.6	5.7	3.2	177	141 - 212
All Chemistry Instruments	14	37.2	1.6	4.4	38	29 - 45	14	175.6	6.3	3.6	177	140 - 211
Beckman AU												
Beckman AU systems	26	35.0	2.0	5.7	35	28 - 43	26	163.0	7.6	4.6	163	130 - 196
Carolina Liquid Chemistries												
All Chemistry Instruments	12	38.7	2.5	6.5	39	30 - 47	12	184.8	7.6	4.1	186	147 - 222
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	38.6	4.0	10.4	39	30 - 47	18	181.1	13.8	7.6	185	144 - 218
Roche Integra												
Roche Integra	36	38.0	2.1	5.5	38	30 - 46	35	183.7	7.3	4.0	184	146 - 221
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	57.3	2.6	4.5	57	45 - 69	61	227.7	7.0	3.1	228	182 - 274
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	39.9	2.5	6.2	40	31 - 48	16	187.2	5.2	2.8	187	149 - 225
All Chemistry Instruments	25	39.4	3.2	8.1	40	31 - 48	25	181.7	12.3	6.8	185	145 - 219
VITROS												
VITROS 250,350,500,700,750,950	36	54.1	2.4	4.4	54	43 - 65	35	225.1	8.2	3.6	225	180 - 271
All Chemistry Instruments	42	54.3	2.3	4.2	55	43 - 66	41	225.9	8.2	3.6	225	180 - 272

AST (SGOT) (IU/L)

Specimen CH-10

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	348	166.5	28.1	16.9	156	133 - 200
All Horiba Pentra Reagents	20	153.8	11.4	7.4	159	123 - 185
All Roche Integra/c111/c501 Reagents	42	154.7	8.1	5.3	155	123 - 186
All Vital Diagnostics Reagents	27	153.8	13.3	8.6	157	123 - 185
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	152	121 - 183
Abaxis Piccolo	9	-	-	-	153	121 - 183
All Chemistry Instruments	16	152.4	6.4	4.2	153	121 - 183
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	34	144.9	6.5	4.5	145	115 - 174
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	29	142.0	7.0	4.9	142	113 - 171
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	11	149.9	7.1	4.7	150	119 - 180
All Chemistry Instruments	14	148.7	7.4	5.0	150	118 - 179
Beckman AU						
Beckman AU systems	26	138.6	8.3	6.0	140	110 - 167
Carolina Liquid Chemistries						
All Chemistry Instruments	12	155.6	6.5	4.2	156	124 - 187
Horiba ABX Pentra						
Horiba ABX Pentra 400	18	152.9	11.6	7.6	157	122 - 184
Roche Integra						
Roche Integra	35	153.8	8.2	5.3	154	123 - 185
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	61	207.4	6.3	3.0	207	165 - 249
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	159.8	6.4	4.0	159	127 - 192
All Chemistry Instruments	25	154.6	13.0	8.4	158	123 - 186
VITROS						
VITROS 250,350,500,700,750,950	36	204.3	8.6	4.2	205	163 - 246
All Chemistry Instruments	42	205.1	8.4	4.1	206	164 - 247

Creatine Kinase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	165	190.5	23.8	12.5	195	133 - 248	163	283.7	34.3	12.1	290	198 - 369
All Roche Integra/c111/c501												
Reagents	23	215.6	11.5	5.3	215	150 - 281	23	322.5	16.5	5.1	321	225 - 420
All Vital Diagnostics Reagents	12	195.7	11.1	5.7	197	136 - 255	12	290.4	15.6	5.4	294	203 - 378
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	20	187.0	7.6	4.1	188	130 - 244	19	272.8	8.1	3.0	273	190 - 355
Beckman - cartridge												
All Chemistry Instruments	10	208.9	10.2	4.9	209	146 - 272	10	307.5	14.3	4.6	310	215 - 400
Beckman AU												
Beckman AU systems	15	185.8	11.9	6.4	185	130 - 242	15	277.2	18.2	6.6	276	194 - 361
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	197.9	6.8	3.5	199	138 - 258	11	292.6	10.2	3.5	295	204 - 381
Roche Integra												
Roche Integra	20	213.0	8.5	4.0	214	149 - 277	21	321.3	16.7	5.2	320	224 - 418
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	14	194.2	8.1	4.2	195	135 - 253	14	291.7	6.1	2.1	293	204 - 380
Siemens Healthcare CKI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	18	196.7	3.5	1.8	197	137 - 256	18	293.6	5.5	1.9	293	205 - 382
Vital Diagnostics												
All Chemistry Instruments	10	197.0	11.0	5.6	198	137 - 257	10	292.3	15.4	5.3	295	204 - 380
VITROS												
VITROS 250,350,500,700,750,950	16	144.6	11.6	8.1	147	101 - 189	16	216.2	18.4	8.5	221	151 - 282
All Chemistry Instruments	20	146.6	11.5	7.8	148	102 - 191	20	218.6	18.2	8.3	223	153 - 285

Creatine Kinase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	161	119.5	14.2	11.9	122	83 - 156	161	123.8	11.0	8.9	124	86 - 161
All Roche Integra/c111/c501												
Reagents	22	134.2	6.4	4.8	135	93 - 175	23	138.3	7.0	5.1	138	96 - 180
All Vital Diagnostics Reagents	12	121.1	7.4	6.1	121	84 - 158	12	123.6	7.0	5.7	124	86 - 161
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	19	122.2	2.6	2.1	122	85 - 159	20	123.3	4.2	3.4	123	86 - 161
Beckman - cartridge												
All Chemistry Instruments	10	130.6	6.8	5.2	133	91 - 170	10	131.8	7.4	5.6	133	92 - 172
Beckman AU												
Beckman AU systems	15	113.5	12.0	10.5	113	79 - 148	15	119.0	8.9	7.5	119	83 - 155
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	130.4	24.6	18.8	125	91 - 170	11	124.0	4.7	3.8	125	86 - 162
Roche Integra												
Roche Integra	20	133.8	6.3	4.7	135	93 - 174	21	137.8	6.9	5.0	137	96 - 180
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	14	121.4	3.5	2.9	121	84 - 158	14	124.4	3.4	2.7	124	87 - 162
Siemens Healthcare CKI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	18	121.8	2.3	1.9	122	85 - 159	18	125.6	3.4	2.7	125	87 - 164
Vital Diagnostics												
All Chemistry Instruments	10	122.2	7.6	6.2	124	85 - 159	10	125.3	6.0	4.8	126	87 - 163
VITROS												
VITROS 250,350,500,700,750,950	16	92.0	8.4	9.1	92	64 - 120	16	107.8	9.3	8.7	109	75 - 141
All Chemistry Instruments	20	93.6	8.1	8.7	98	65 - 122	20	109.8	9.6	8.7	110	76 - 143

Creatine Kinase (IU/L)

Specimen CH-10

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	162	240.3	26.0	10.8	245	168 - 313
All Roche Integra/c111/c501						
Reagents	23	272.1	13.7	5.0	272	190 - 354
All Vital Diagnostics Reagents	12	244.4	10.7	4.4	244	171 - 318
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	20	231.7	12.7	5.5	234	162 - 302
Beckman - cartridge						
All Chemistry Instruments	10	260.2	13.3	5.1	265	182 - 339
Beckman AU						
Beckman AU systems	15	232.7	14.7	6.3	232	162 - 303
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	247.6	9.0	3.6	249	173 - 322
Roche Integra						
Roche Integra	21	271.3	13.9	5.1	272	189 - 353
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	14	246.5	5.6	2.3	246	172 - 321
Siemens Healthcare CKI						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	18	248.5	4.6	1.9	249	173 - 324
Vital Diagnostics						
All Chemistry Instruments	10	245.6	11.0	4.5	244	171 - 320
VITROS						
VITROS 250,350,500,700,750,950	16	193.5	15.9	8.2	195	135 - 252
All Chemistry Instruments	20	195.8	16.6	8.5	197	137 - 255

GGT (IU/L)

	Specimen CH-6						Specimen CH-7					
<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	82	58.3	14.1	24.2	53	30 - 87	82	107.4	23.8	22.2	99	59 - 156
All Roche Integra/c111/c501 Reagents	11	50.3	1.3	2.5	50	40 - 61	11	96.2	1.9	2.0	96	76 - 116
Siemens (Dade) Healthcare Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	14	73.2	4.0	5.5	72	58 - 88	13	130.4	2.5	1.9	130	104 - 157
All Method	82	58.3	14.1	24.2	53	30 - 87	82	107.4	23.8	22.2	99	59 - 156

Amylase (IU/L)

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	100	57.2	10.0	17.5	60	40 - 75	99	87.0	12.8	14.7	91	60 - 114
All Roche Integra/c111/c501												
Reagents	16	61.1	1.5	2.4	61	42 - 80	16	91.7	2.5	2.7	92	64 - 120
Beckman AU												
Beckman AU systems	13	47.1	3.1	6.5	47	32 - 62	13	72.1	4.5	6.2	72	50 - 94
Roche Integra												
Roche Integra	15	61.0	1.5	2.5	61	42 - 80	15	91.5	2.5	2.7	92	64 - 119
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	61.3	1.9	3.0	61	42 - 80	17	94.4	2.5	2.6	95	66 - 123
VITROS												
VITROS 250,350,500,700,750,950	14	41.8	4.7	11.2	43	29 - 55	14	68.8	7.3	10.6	69	48 - 90
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<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	98	49.8	10.7	21.5	53	34 - 65	97	108.9	25.6	23.5	113	76 - 142
All Roche Integra/c111/c501												
Reagents	16	53.3	1.2	2.3	53	37 - 70	16	110.8	2.5	2.2	112	77 - 145
Beckman AU												
Beckman AU systems	13	42.2	3.0	7.0	42	29 - 55	13	99.9	6.0	6.1	99	69 - 130
Roche Integra												
Roche Integra	15	53.3	1.3	2.4	53	37 - 70	15	110.8	2.6	2.3	112	77 - 145
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	55.9	1.7	3.1	56	39 - 73	17	134.1	3.2	2.4	134	93 - 175
VITROS												
VITROS 250,350,500,700,750,950	14	30.9	1.5	4.9	30	21 - 41	14	61.4	4.0	6.4	62	43 - 80
All Chemistry Instruments	16	30.4	0.9	2.9	30	21 - 40	17	60.5	4.5	7.5	61	42 - 79

Amylase (IU/L)

Specimen CH-10

<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	102.1	18.1	17.7	107	71 - 133
All Roche Integra/c111/c501 Reagents	16	105.1	2.6	2.4	105	73 - 137
Beckman AU						
Beckman AU systems	13	88.2	5.3	6.0	87	61 - 115
Roche Integra						
Roche Integra	15	104.9	2.5	2.4	105	73 - 137
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	17	116.4	3.6	3.1	117	81 - 152
VITROS						
VITROS 250,350,500,700,750,950	14	71.5	6.5	9.0	72	50 - 93
All Chemistry Instruments	17	71.5	6.0	8.4	72	50 - 93

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	<u>Labs</u>	Specimen CH-6					Specimen CH-7					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	93	161.7	17.7	10.9	170	129 - 195	93	327.6	38.8	11.8	352	262 - 394
All Alfa Wassermann Reagents	12	131.7	5.7	4.3	131	105 - 159	13	260.0	9.2	3.5	262	208 - 312
All Roche Integra/c111/c501 Reagents	18	176.2	3.7	2.1	176	140 - 212	18	354.8	6.7	1.9	355	283 - 426
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	12	135.0	13.8	10.2	131	108 - 162	12	259.6	9.4	3.6	260	207 - 312
Roche Integra												
Roche Integra	14	176.6	3.3	1.8	176	141 - 212	14	354.7	6.6	1.8	355	283 - 426
Siemens Healthcare LDI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	14	172.1	5.6	3.3	173	137 - 207	14	362.8	12.3	3.4	363	290 - 436
VITROS												
VITROS 250,350,500,700,750,950	10	589.2	16.2	2.7	595	471 - 708	10	1128.6	35.4	3.1	1127	902 - 1355
All Chemistry Instruments	12	588.7	19.5	3.3	595	470 - 707	12	1126.7	34.3	3.0	1127	901 - 1353
<u>Instrument/Reagent</u>	<u>Labs</u>	Specimen CH-8					Specimen CH-9					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	132.7	14.4	10.9	140	106 - 160	93	505.4	64.6	12.8	543	404 - 607
All Alfa Wassermann Reagents	13	109.1	5.9	5.4	109	87 - 131	13	399.2	17.5	4.4	399	319 - 479
All Roche Integra/c111/c501 Reagents	18	144.2	3.5	2.4	145	115 - 174	17	549.6	10.4	1.9	550	439 - 660
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	12	108.3	5.5	5.1	107	86 - 130	12	397.3	16.9	4.3	399	317 - 477
Roche Integra												
Roche Integra	14	144.7	3.3	2.3	145	115 - 174	13	550.4	9.6	1.7	550	440 - 661
Siemens Healthcare LDI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	14	142.0	8.9	6.3	142	113 - 171	14	560.3	17.1	3.1	557	448 - 673
VITROS												
VITROS 250,350,500,700,750,950	10	489.2	13.7	2.8	495	391 - 588	10	1813.9	577.5	31.8	1980	1451 - 2177
All Chemistry Instruments	12	488.0	14.7	3.0	495	390 - 586	11	1987.0	61.5	3.1	1986	1589 - 2385

Lactate Dehydrogenase (IU/L)

Specimen CH-10

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	93	432.7	52.6	12.2	463	346 - 520
All Alfa Wassermann Reagents	13	344.5	11.7	3.4	345	275 - 414
All Roche Integra/c111/c501 Reagents	18	467.8	7.7	1.6	467	374 - 562
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	12	343.5	11.6	3.4	345	274 - 413
Roche Integra						
Roche Integra	14	467.4	6.9	1.5	467	373 - 561
Siemens Healthcare LDI						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	14	478.8	15.6	3.2	474	383 - 575
VITROS						
VITROS 250,350,500,700,750,950	10	1553.8	38.8	2.5	1547	1243 - 1865
All Chemistry Instruments	12	1550.4	41.7	2.7	1547	1240 - 1861

Lipase (IU/L)

Specimen CH-6

Specimen CH-7

<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	38	49.6	6.0	12.1	55	34 - 65	39	70.9	9.6	13.5	79	49 - 93
All Roche Integra/c111/c501 Reagents	12	48.4	1.6	3.2	49	33 - 63	12	69.6	2.5	3.6	70	48 - 91
Roche Integra												
Roche Integra	11	48.6	1.4	2.9	49	34 - 64	11	69.8	2.5	3.6	70	48 - 91
Siemens (Dade) Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	10	199.9	6.2	3.1	202	139 - 260	10	289.5	8.4	2.9	291	202 - 377
VITROS												
All Chemistry Instruments	11	750.6	32.7	4.4	750	525 - 976	11	1066.7	45.4	4.3	1060	746 - 1387

Lipase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	39	32.2	5.3	16.4	35	22 - 42	39	25.1	4.6	18.1	27	17 - 33
All Roche Integra/c111/c501 Reagents	12	30.6	1.2	3.8	31	21 - 40	12	24.8	0.9	3.5	25	17 - 33
Roche Integra												
Roche Integra	11	30.7	1.1	3.6	31	21 - 40	11	24.7	0.9	3.7	25	17 - 33
Siemens (Dade) Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	10	127.9	7.1	5.5	129	89 - 167	10	103.2	6.2	6.0	105	72 - 135
VITROS												
All Chemistry Instruments	11	474.4	22.4	4.7	472	332 - 617	11	307.5	18.9	6.1	302	215 - 400
Specimen CH-10												
All Method	38	57.2	6.0	10.5	62	40 - 75						
All Roche Integra/c111/c501 Reagents	12	56.6	1.8	3.1	57	39 - 74						
Roche Integra												
Roche Integra	11	56.7	1.8	3.2	57	39 - 74						
Siemens (Dade) Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	10	236.2	7.6	3.2	239	165 - 308						
VITROS												
All Chemistry Instruments	11	855.0	36.0	4.2	850	598 - 1112						

Alpha-fetoprotein (AFP) (ng/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	169.38	9.06	5.34	167.9	142.2 - 196.6	5	285.60	18.43	6.45	285	230.3 - 340.9
Specimen CH-8												
All Method	5	84.78	6.34	7.48	87.8	65.7 - 103.8	5	119.16	11.63	9.76	119.2	84.2 - 154.1
Specimen CH-9												
Specimen CH-10												
All Method	5	246.20	21.79	8.85	239.3	180.8 - 311.6						

Cortisol (mcg/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	19.38	1.31	6.8	19.2	14.5 - 24.3	16	28.79	4.20	14.6	27.6	21.5 - 36.0
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	12.56	1.57	12.5	12.1	9.4 - 15.8	16	12.10	1.58	13.0	11.5	9.0 - 15.2
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	16	23.78	2.88	12.1	23.3	17.8 - 29.8						

T₃ Uptake (percent)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	45.12	4.53	10.0	45.0	31.5 - 58.7	33	43.39	3.46	8.0	43.0	33.0 - 53.8
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	10	41.00	2.87	7.0	41.0	32.3 - 49.7	10	41.30	2.98	7.2	41.0	32.3 - 50.3
TOSOH ST AIA	10	45.72	1.75	3.8	46.0	40.4 - 51.0	10	42.62	1.11	2.6	42.6	39.2 - 46.0
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	46.85	4.62	9.9	46.7	33.0 - 60.8	32	43.35	3.37	7.8	43.6	33.2 - 53.5
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	10	42.50	2.59	6.1	42.5	34.7 - 50.3	10	40.40	2.63	6.5	40.5	32.5 - 48.3
TOSOH ST AIA	10	47.46	1.94	4.1	47.7	41.6 - 53.3	10	44.24	1.51	3.4	44.6	39.6 - 48.8
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	33	43.24	3.42	7.9	43.4	32.9 - 53.5						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	10	41.80	2.66	6.4	41.5	33.8 - 49.8						
TOSOH ST AIA	10	42.52	2.63	6.2	43.3	34.6 - 50.4						

T Uptake (uptake units)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	2	-	-	-	0.46	Not graded	2	-	-	-	0.33	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<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	2	-	-	-	0.62	Not graded	2	-	-	-	0.64	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	2	-	-	-	0.39	Not graded						

Triiodothyronine (ng/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	49	1.41	0.31	22.0	1.5	0.4 - 2.4	49	1.82	0.49	26.8	1.9	0.3 - 3.3
All TOSOH Instruments	12	4.42	0.56	12.8	4.3	2.7 - 6.2	12	5.33	0.77	14.5	5.1	3.0 - 7.7
Beckman ACCESS / 2 / Dxl	14	1.60	0.12	7.8	1.6	1.2 - 2.0	14	2.21	0.23	10.4	2.3	1.5 - 2.9
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<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	49	1.04	0.23	22.5	1.1	0.3 - 1.8	49	0.94	0.22	23.6	1.0	0.2 - 1.7
All TOSOH Instruments	12	3.56	0.62	17.3	3.4	1.7 - 5.5	12	3.33	0.49	14.8	3.2	1.8 - 4.9
Beckman ACCESS / 2 / Dxl	14	1.21	0.11	9.5	1.2	0.8 - 1.6	14	1.05	0.09	9.0	1.1	0.7 - 1.4
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	49	1.57	0.37	23.7	1.8	0.4 - 2.7						
All TOSOH Instruments	12	4.76	0.85	18.0	4.5	2.1 - 7.4						
Beckman ACCESS / 2 / Dxl	14	1.79	0.18	10.1	1.9	1.2 - 2.4						

Free T₃ (pg/mL)

Specimen CH-6							Specimen CH-7					
<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	5.12	3.00	58.6	4.3	0.0 - 14.2	33	6.05	3.26	53.9	5.1	0.0 - 15.9
All TOSOH Instruments	10	8.29	0.41	4.9	8.3	7.0 - 9.6	10	10.55	0.62	5.9	10.9	8.6 - 12.5
Beckman ACCESS / 2 / Dxl	11	4.73	2.72	57.6	3.8	0.0 - 13.0	11	5.46	3.02	55.4	4.4	0.0 - 14.6
Specimen CH-8							Specimen CH-9					
All Method	33	4.08	2.50	61.3	3.7	0.0 - 11.6	33	3.77	2.42	64.4	3.3	0.0 - 11.1
All TOSOH Instruments	10	6.25	0.30	4.8	6.3	5.3 - 7.2	10	5.12	0.24	4.8	5.2	4.3 - 5.9
Beckman ACCESS / 2 / Dxl	11	3.87	2.17	56.1	3.2	0.0 - 10.4	11	3.71	2.21	59.6	3.0	0.0 - 10.4
Specimen CH-10												
All Method	33	5.42	3.08	56.7	4.5	0.0 - 14.7						
All TOSOH Instruments	10	9.10	0.34	3.8	9.0	8.0 - 10.2						
Beckman ACCESS / 2 / Dxl	11	4.95	2.96	59.7	4.0	0.0 - 13.9						

Thyroxine (mcg/dL)

Specimen CH-6							Specimen CH-7					
<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	59	9.52	0.86	9.0	9.4	7.6 - 11.5	59	13.07	1.40	10.7	13.0	10.4 - 15.7
All TOSOH Instruments	17	9.36	0.68	7.3	9.4	7.4 - 11.3	17	12.91	1.31	10.1	12.9	10.3 - 15.5
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	9.53	0.66	7.0	9.6	7.6 - 11.5	13	13.77	0.90	6.5	14.0	11.0 - 16.6
TOSOH ST AIA	14	9.26	0.71	7.7	9.3	7.4 - 11.2	14	12.61	1.05	8.3	12.7	10.0 - 15.2
Specimen CH-8							Specimen CH-9					
All Method	59	6.69	0.82	12.3	6.6	5.3 - 8.1	59	6.32	0.62	9.9	6.4	5.0 - 7.6
All TOSOH Instruments	16	6.29	0.31	4.9	6.3	5.0 - 7.6	17	6.29	0.39	6.2	6.4	5.0 - 7.6
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	6.51	0.71	11.0	6.7	5.2 - 7.9	13	6.15	0.67	10.9	6.4	4.9 - 7.4
TOSOH ST AIA	14	6.25	0.31	4.9	6.2	5.0 - 7.5	14	6.23	0.40	6.4	6.3	4.9 - 7.5
Specimen CH-10												
All Method	58	11.12	1.02	9.2	11.1	8.8 - 13.4						
All TOSOH Instruments	17	10.90	0.67	6.1	10.9	8.7 - 13.1						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	11.66	0.83	7.1	11.8	9.3 - 14.0						
TOSOH ST AIA	14	10.84	0.72	6.6	10.9	8.6 - 13.1						

Free Thyroxine (ng/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	2.52	0.64	25.5	2.6	0.5 - 4.5	226	3.18	0.80	25.2	3.4	0.7 - 5.6
All DPC Immulite Instruments	17	2.56	0.14	5.5	2.6	2.1 - 3.0	17	3.14	0.22	7.1	3.1	2.4 - 3.9
All Roche Elecsys/cobas e 601 Instruments	12	2.82	0.16	5.8	2.8	2.3 - 3.4	12	3.72	0.28	7.5	3.7	2.8 - 4.6
All TOSOH Instruments	45	3.27	0.22	6.8	3.3	2.6 - 4.0	45	4.03	0.26	6.4	4.0	3.2 - 4.9
Abbott Architect	17	2.69	0.12	4.3	2.7	2.3 - 3.1	18	3.95	0.38	9.6	3.9	2.8 - 5.1
Beckman ACCESS / 2 / Dxl	42	2.13	0.09	4.3	2.1	1.8 - 2.4	42	2.49	0.12	4.9	2.5	2.1 - 2.9
bioMerieux Vidas, Mini Vidas	36	1.62	0.13	7.9	1.6	1.2 - 2.0	36	2.18	0.15	7.0	2.2	1.7 - 2.7
DPC Immulite/1000	11	2.58	0.17	6.4	2.6	2.0 - 3.1	11	3.22	0.22	6.8	3.2	2.5 - 3.9
Roche Elecsys 1010/2010	10	2.83	0.18	6.2	2.8	2.2 - 3.4	10	3.73	0.31	8.2	3.7	2.8 - 4.7
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	32	2.90	0.27	9.4	2.9	2.0 - 3.8	32	3.60	0.32	8.9	3.6	2.6 - 4.6
TOSOH AIA	16	3.19	0.30	9.5	3.2	2.2 - 4.2	16	3.94	0.36	9.0	4.0	2.8 - 5.1
TOSOH ST AIA	30	3.28	0.22	6.9	3.3	2.6 - 4.0	30	4.05	0.26	6.5	4.1	3.2 - 4.9
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	1.90	0.49	25.6	1.9	0.4 - 3.4	225	1.75	0.43	24.8	1.8	0.4 - 3.1
All DPC Immulite Instruments	17	2.05	0.12	5.8	2.0	1.6 - 2.5	17	1.96	0.12	6.2	2.0	1.5 - 2.4
All Roche Elecsys/cobas e 601 Instruments	12	2.03	0.13	6.4	2.0	1.6 - 2.5	12	1.97	0.14	7.0	2.0	1.5 - 2.4
All TOSOH Instruments	45	2.48	0.19	7.7	2.5	1.9 - 3.1	45	2.22	0.19	8.8	2.2	1.6 - 2.9
Abbott Architect	18	1.84	0.07	3.8	1.8	1.6 - 2.1	18	1.80	0.10	5.4	1.8	1.5 - 2.1
Beckman ACCESS / 2 / Dxl	46	1.72	0.14	8.3	1.7	1.2 - 2.2	46	1.54	0.16	10.1	1.5	1.0 - 2.1
bioMerieux Vidas, Mini Vidas	35	1.20	0.08	6.6	1.2	0.9 - 1.5	36	1.13	0.08	7.3	1.1	0.8 - 1.4
DPC Immulite/1000	11	2.05	0.14	7.0	2.1	1.6 - 2.5	11	1.95	0.12	6.2	2.0	1.5 - 2.4
Roche Elecsys 1010/2010	10	2.05	0.14	6.6	2.1	1.6 - 2.5	10	1.97	0.15	7.6	2.0	1.5 - 2.5
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	32	2.15	0.23	10.9	2.1	1.4 - 2.9	32	1.99	0.21	10.7	2.0	1.3 - 2.7
TOSOH AIA	16	2.44	0.25	10.3	2.4	1.6 - 3.3	16	2.21	0.26	11.8	2.1	1.4 - 3.0
TOSOH ST AIA	29	2.50	0.15	5.9	2.5	2.0 - 3.0	29	2.23	0.15	6.9	2.2	1.7 - 2.7

Free Thyroxine (ng/dL)

Specimen CH-10

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	226	2.79	0.70	24.9	2.9	0.7 - 4.9
All DPC Immulite Instruments	17	2.83	0.17	6.0	2.8	2.3 - 3.4
All Roche Elecsys/cobas e 601 Instruments	12	3.18	0.24	7.5	3.2	2.4 - 3.9
All TOSOH Instruments	45	3.53	0.24	6.8	3.5	2.8 - 4.3
Abbott Architect	18	3.29	0.20	6.2	3.3	2.6 - 4.0
Beckman ACCESS / 2 / Dxl	42	2.24	0.11	4.7	2.2	1.9 - 2.6
bioMerieux Vidas, Mini Vidas	36	1.88	0.18	9.7	1.8	1.3 - 2.5
DPC Immulite/1000	11	2.89	0.18	6.1	2.9	2.3 - 3.5
Roche Elecsys 1010/2010	10	3.20	0.25	7.9	3.2	2.4 - 4.0
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	32	3.22	0.31	9.5	3.2	2.2 - 4.2
TOSOH AIA	16	3.49	0.24	7.0	3.5	2.7 - 4.3
TOSOH ST AIA	29	3.55	0.24	6.7	3.6	2.8 - 4.3

TSH (μU/mL)

Specimen CH-6

Specimen CH-7

<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	307	6.55	0.77	11.8	6.5	4.2 - 8.9	308	9.63	1.19	12.3	9.7	6.0 - 13.2
All Abbott Instruments	21	5.85	0.27	4.7	5.9	5.0 - 6.7	21	8.90	0.40	4.5	8.9	7.7 - 10.2
All DPC Immulite Instruments	17	6.03	0.45	7.5	6.0	4.6 - 7.4	18	8.86	1.02	11.5	9.0	5.7 - 12.0
All Roche Elecsys/cobas e 601 Instruments	15	6.51	0.27	4.1	6.5	5.7 - 7.4	15	9.25	0.45	4.8	9.5	7.9 - 10.6
All TOSOH Instruments	65	6.95	0.41	5.9	7.0	5.7 - 8.2	65	10.25	0.61	6.0	10.3	8.4 - 12.1
Abbott Architect	21	5.85	0.27	4.7	5.9	5.0 - 6.7	21	8.90	0.40	4.5	8.9	7.7 - 10.2
Beckman ACCESS / 2 / Dxl	55	5.86	0.31	5.3	5.9	4.9 - 6.8	55	8.19	0.61	7.4	8.1	6.3 - 10.1
bioMerieux Vidas, Mini Vidas	61	7.21	0.45	6.2	7.1	5.8 - 8.6	61	10.59	0.71	6.7	10.4	8.4 - 12.8
DPC Immulite/1000	12	5.70	0.77	13.6	5.9	3.3 - 8.1	12	8.53	1.06	12.4	8.8	5.3 - 11.8
Roche Elecsys 1010/2010	13	6.52	0.29	4.4	6.5	5.6 - 7.4	13	9.25	0.48	5.1	9.5	7.8 - 10.7
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	44	5.91	0.70	11.8	6.0	3.8 - 8.1	44	9.12	0.83	9.1	9.1	6.6 - 11.7
TOSOH AIA	28	7.14	0.56	7.8	7.1	5.4 - 8.9	28	10.50	0.86	8.1	10.4	7.9 - 13.1
TOSOH ST AIA	39	6.90	0.41	5.9	7.0	5.6 - 8.2	39	10.20	0.62	6.1	10.1	8.3 - 12.1

TSH (μU/mL)

Specimen CH-8							Specimen CH-9					
<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	307	3.59	0.41	11.5	3.6	2.3 - 4.9	308	2.38	0.27	11.3	2.4	1.5 - 3.2
All Abbott Instruments	21	3.21	0.20	6.2	3.2	2.6 - 3.9	21	2.12	0.11	5.1	2.1	1.7 - 2.5
All DPC Immulite Instruments	18	3.19	0.41	13.0	3.2	1.9 - 4.5	18	2.16	0.33	15.4	2.3	1.1 - 3.2
All Roche Elecsys/cobas e 601 Instruments	15	3.69	0.14	3.8	3.7	3.2 - 4.2	15	2.44	0.12	5.1	2.4	2.0 - 2.9
All TOSOH Instruments	67	3.85	0.26	6.7	3.9	3.0 - 4.7	66	2.57	0.18	6.9	2.5	2.0 - 3.2
Abbott Architect	21	3.21	0.20	6.2	3.2	2.6 - 3.9	21	2.12	0.11	5.1	2.1	1.7 - 2.5
Beckman ACCESS / 2 / Dxl	55	3.26	0.20	6.2	3.2	2.6 - 3.9	55	2.15	0.13	6.0	2.2	1.7 - 2.6
bioMerieux Vidas, Mini Vidas	61	3.88	0.25	6.4	3.8	3.1 - 4.7	62	2.51	0.18	7.0	2.5	1.9 - 3.1
DPC Immulite/1000	12	3.06	0.41	13.4	3.1	1.8 - 4.3	12	2.07	0.36	17.5	2.1	0.9 - 3.2
Roche Elecsys 1010/2010	13	3.69	0.15	4.1	3.7	3.2 - 4.2	13	2.44	0.13	5.4	2.4	2.0 - 2.9
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	44	3.22	0.28	8.7	3.2	2.3 - 4.1	44	2.18	0.19	8.9	2.2	1.5 - 2.8
TOSOH AIA	28	3.89	0.26	6.7	3.9	3.1 - 4.7	27	2.61	0.19	7.4	2.6	2.0 - 3.2
TOSOH ST AIA	39	3.82	0.26	6.8	3.9	3.0 - 4.6	39	2.54	0.16	6.4	2.5	2.0 - 3.1
Specimen CH-10												
All Method	306	7.60	0.92	12.0	7.6	4.8 - 10.4						
All Abbott Instruments	21	6.84	0.29	4.2	6.8	5.9 - 7.8						
All DPC Immulite Instruments	17	7.11	0.44	6.2	7.2	5.7 - 8.5						
All Roche Elecsys/cobas e 601 Instruments	15	7.28	0.34	4.7	7.3	6.2 - 8.4						
All TOSOH Instruments	65	8.20	0.49	5.9	8.2	6.7 - 9.7						
Abbott Architect	21	6.84	0.29	4.2	6.8	5.9 - 7.8						
Beckman ACCESS / 2 / Dxl	55	6.55	0.39	6.0	6.5	5.3 - 7.8						
bioMerieux Vidas, Mini Vidas	62	8.35	0.63	7.5	8.2	6.4 - 10.3						
DPC Immulite/1000	11	6.95	0.44	6.3	7.1	5.6 - 8.3						
Roche Elecsys 1010/2010	13	7.24	0.35	4.8	7.3	6.2 - 8.3						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	43	7.13	0.52	7.2	7.1	5.5 - 8.7						
TOSOH AIA	27	8.44	0.61	7.2	8.3	6.6 - 10.3						
TOSOH ST AIA	39	8.07	0.39	4.8	8.1	6.9 - 9.3						

Serum hCG – Qualitative

	Specimen HCG-6		Specimen HCG-7	
<u>Method</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	144	1	2	143
Beckman Coulter ICON 25 hCG	6	-	-	6
Cardinal Health SP Brand combo	9	-	-	9
CONSULT diagnostics hCG Combo	17	-	-	17
Genzyme OSOM hCG Combo Test	7	-	-	7
Henry Schein One Step + Combo	7	-	-	7
Immunostics Detector Combi	1	-	-	1
LifeSign Status hCG	1	-	-	1
McKesson hCG Combo Cassette	5	-	-	5
Polymedco Poly stat hCG	1	-	-	1
PSS Select hCG Combo	3	-	-	3
Quidel QuickVue + One-Step	13	-	-	13
Quidel QuickVue One-Step Combo	59	1	1	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-8		Specimen HCG-9	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	144	1	145	-
Beckman Coulter ICON 25 hCG	6	-	6	-
Cardinal Health SP Brand combo	9	-	9	-
CONSULT diagnostics hCG Combo	16	1	17	-
Genzyme OSOM hCG Combo Test	7	-	7	-
Henry Schein One Step + Combo	7	-	7	-
Immunostics Detector Combi	1	-	1	-
LifeSign Status hCG	1	-	1	-
McKesson hCG Combo Cassette	5	-	5	-
Polymedco Poly stat hCG	1	-	1	-
PSS Select hCG Combo	3	-	3	-
Quidel QuickVue + One-Step	13	-	13	-
Quidel QuickVue One-Step Combo	60	-	60	-
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-10

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	143
Beckman Coulter ICON 25 hCG	-	6
Cardinal Health SP Brand combo	-	9
CONSULT diagnostics hCG Combo	1	16
Genzyme OSOM hCG Combo Test	-	7
Henry Schein One Step + Combo	-	7
Immunostics Detector Combi	-	1
LifeSign Status hCG	-	1
McKesson hCG Combo Cassette	-	5
Polymedco Poly stat hCG	-	1
PSS Select hCG Combo	-	3
Quidel QuickVue + One-Step	-	13
Quidel QuickVue One-Step Combo	-	60
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-6

Specimen HCG-7

<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	856.6	294.5	34.4	989	0 - 1741	27	1.2	0.8	65.5	1	0 - 4

Specimen HCG-8

Specimen HCG-9

All Method	28	175.9	52.4	29.8	190	18 - 334	28	345.2	104.0	30.1	379	33 - 658
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Specimen HCG-10

All Method	27	1.2	0.8	65.5	1	0 - 4
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Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	365	176.5	7.0	4.0	176	158 - 195	364	228.9	9.6	4.2	228	206 - 252
All Alfa Wassermann Reagents	50	176.1	2.7	1.5	176	158 - 194	51	225.1	3.9	1.7	225	202 - 248
All Horiba Pentra Reagents	18	173.9	5.8	3.3	175	156 - 192	18	224.9	8.6	3.8	226	202 - 248
All Roche Integra/c111/c501 Reagents	38	176.6	4.9	2.8	176	158 - 195	38	227.5	6.0	2.6	227	204 - 251
All Vital Diagnostics Reagents	28	178.5	7.9	4.4	179	160 - 197	27	232.7	11.6	5.0	234	209 - 257
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	48	176.2	3.4	1.9	176	158 - 194	47	225.2	4.0	1.8	225	202 - 248
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	10	177.4	3.8	2.1	179	159 - 196	10	231.1	5.0	2.1	232	207 - 255
All Chemistry Instruments	12	178.1	3.8	2.2	179	160 - 196	12	231.7	4.7	2.0	233	208 - 255
Beckman AU												
Beckman AU systems	24	172.7	4.1	2.4	174	155 - 190	24	222.7	5.3	2.4	223	200 - 245
Carolina Liquid Chemistries												
All Chemistry Instruments	10	182.4	11.4	6.2	183	164 - 201	10	224.0	8.1	3.6	224	201 - 247
Cholestech LDX												
Cholestech LDX - waived	45	185.3	8.3	4.5	185	166 - 204	46	241.8	12.2	5.1	244	217 - 266
All Chemistry Instruments	51	184.9	8.0	4.3	185	166 - 204	52	241.2	11.8	4.9	243	217 - 266
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	173.9	6.0	3.4	175	156 - 192	17	225.0	8.9	3.9	226	202 - 248
Pointe Scientific												
All Chemistry Instruments	12	180.1	4.1	2.3	180	162 - 199	12	230.8	4.2	1.8	229	207 - 254
Roche Integra												
Roche Integra	31	176.3	4.6	2.6	176	158 - 194	31	227.4	6.0	2.7	227	204 - 251
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	51	170.3	5.3	3.1	170	153 - 188	51	220.0	5.8	2.6	220	198 - 243
All Chemistry Instruments	52	170.3	5.2	3.1	170	153 - 188	52	220.0	5.7	2.6	220	198 - 243
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	179.4	2.7	1.5	179	161 - 198	16	234.9	5.8	2.5	235	211 - 259
All Chemistry Instruments	25	179.9	7.0	3.9	179	161 - 198	24	234.9	9.3	4.0	236	211 - 259
VITROS												
VITROS 250,350,500,700,750,950	30	172.5	7.2	4.2	171	155 - 190	30	233.2	9.2	3.9	230	209 - 257
All Chemistry Instruments	39	173.8	7.6	4.4	173	156 - 192	39	235.0	9.7	4.1	236	211 - 259

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	321	143.0	5.6	3.9	144	128 - 158	323	168.8	6.5	3.8	169	151 - 186
All Alfa Wassermann Reagents	52	144.9	2.9	2.0	145	130 - 160	52	168.6	3.0	1.8	169	151 - 186
All Horiba Pentra Reagents	18	142.7	4.5	3.1	144	128 - 157	18	168.1	6.3	3.7	170	151 - 185
All Roche Integra/c111/c501 Reagents	37	144.8	3.7	2.5	144	130 - 160	38	169.6	4.4	2.6	169	152 - 187
All Vital Diagnostics Reagents	28	145.3	6.6	4.6	146	130 - 160	28	174.9	7.6	4.3	177	157 - 193
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	48	145.0	2.9	2.0	145	130 - 160	48	168.8	3.1	1.8	169	151 - 186
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	10	146.4	2.7	1.9	147	131 - 162	10	173.1	2.7	1.6	173	155 - 191
All Chemistry Instruments	12	146.7	2.6	1.8	147	132 - 162	12	173.4	2.6	1.5	174	156 - 191
Beckman AU												
Beckman AU systems	24	141.1	3.4	2.4	141	126 - 156	24	165.6	4.0	2.4	166	149 - 183
Carolina Liquid Chemistries												
All Chemistry Instruments	10	155.7	13.0	8.3	157	140 - 172	10	178.5	11.9	6.7	183	160 - 197
Cholestech LDX												
Cholestech LDX - waived	15	147.3	7.0	4.8	150	132 - 163	15	171.6	13.9	8.1	174	154 - 189
All Chemistry Instruments	18	147.2	6.5	4.4	150	132 - 162	17	173.4	7.9	4.6	173	156 - 191
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	142.6	4.6	3.2	144	128 - 157	17	168.2	6.5	3.9	170	151 - 185
Pointe Scientific												
All Chemistry Instruments	12	144.8	7.2	4.9	145	130 - 160	12	169.2	5.1	3.0	169	152 - 187
Roche Integra												
Roche Integra	30	144.6	3.6	2.5	144	130 - 160	31	169.4	4.3	2.6	169	152 - 187
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	51	138.9	4.7	3.4	138	124 - 153	51	162.5	4.6	2.8	162	146 - 179
All Chemistry Instruments	52	138.8	4.6	3.3	138	124 - 153	52	162.5	4.6	2.8	162	146 - 179
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	146.1	4.2	2.9	146	131 - 161	17	176.6	4.8	2.7	177	158 - 195
All Chemistry Instruments	25	146.6	5.2	3.6	147	131 - 162	24	177.2	4.5	2.5	178	159 - 195
VITROS												
VITROS 250,350,500,700,750,950	30	137.3	4.5	3.3	137	123 - 151	30	168.6	6.7	3.9	169	151 - 186
All Chemistry Instruments	39	138.1	5.4	3.9	138	124 - 152	39	169.6	7.2	4.2	169	152 - 187

Cholesterol, Total (mg/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	320	215.4	8.9	4.1	214	193 - 237
All Alfa Wassermann Reagents	51	212.8	4.2	2.0	213	191 - 235
All Horiba Pentra Reagents	18	213.5	8.4	3.9	214	192 - 235
All Roche Integra/c111/c501 Reagents	37	214.5	4.7	2.2	213	193 - 236
All Vital Diagnostics Reagents	27	221.8	9.6	4.3	223	199 - 244
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	47	213.1	4.2	2.0	213	191 - 235
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	10	221.4	4.9	2.2	222	199 - 244
All Chemistry Instruments	12	221.8	4.5	2.0	223	199 - 244
Beckman AU						
Beckman AU systems	24	210.1	5.4	2.6	211	189 - 232
Carolina Liquid Chemistries						
All Chemistry Instruments	10	219.0	14.2	6.5	222	197 - 241
Cholestech LDX						
Cholestech LDX - waived	15	232.1	11.8	5.1	233	208 - 256
All Chemistry Instruments	18	230.2	11.6	5.0	230	207 - 254
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	213.6	8.6	4.0	215	192 - 235
Pointe Scientific						
All Chemistry Instruments	12	217.5	4.7	2.2	218	195 - 240
Roche Integra						
Roche Integra	30	214.1	4.3	2.0	213	192 - 236
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	51	206.9	5.7	2.8	206	186 - 228
All Chemistry Instruments	52	206.9	5.7	2.7	206	186 - 228
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	222.9	5.9	2.7	223	200 - 246
All Chemistry Instruments	23	224.8	6.0	2.7	225	202 - 248
VITROS						
VITROS 250,350,500,700,750,950	30	221.4	9.5	4.3	221	199 - 244
All Chemistry Instruments	39	222.8	9.5	4.3	223	200 - 246

LDL Cholesterol - Calculated (mg/dL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	243	65.0	9.6	14.7	66	45 - 85	209	90.2	12.7	14.1	92	63 - 118
Calculated-Trig/5												
Alfa Wassermann ACE/NexCT/Alera	37	72.3	5.0	7.0	73	50 - 94	36	95.0	6.8	7.2	96	66 - 124
Beckman AU systems	17	64.1	7.9	12.3	64	44 - 84	17	83.0	10.0	12.0	81	58 - 108
Cholestech LDX - waived	33	63.1	8.5	13.5	63	44 - 82	4	-	-	-	95	62 - 117
Roche Integra	19	69.5	5.8	8.4	70	48 - 91	20	101.5	7.1	7.0	101	71 - 132
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	23	66.0	6.4	9.7	67	46 - 86	23	96.4	7.7	7.9	98	67 - 126
Vital Diagnostics Envoy 500	12	63.3	10.6	16.8	66	44 - 83	12	88.8	12.4	13.9	91	62 - 116
VITROS 250,350,500,700,750,950	27	52.1	7.9	15.2	54	36 - 68	27	75.3	11.6	15.5	78	52 - 98
All Chemistry Instruments	231	64.8	9.6	14.8	66	45 - 85	197	89.8	12.7	14.1	92	62 - 117
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<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	220	49.7	8.4	17.0	49	34 - 65	220	57.5	13.0	22.6	56	40 - 75
Calculated-Trig/5												
Alfa Wassermann ACE/NexCT/Alera	36	58.3	4.2	7.2	58	40 - 76	36	70.2	6.3	8.9	71	49 - 92
Beckman AU systems	17	52.3	7.3	13.9	52	36 - 68	17	59.1	9.8	16.6	58	41 - 77
Cholestech LDX - waived	15	47.6	5.1	10.6	49	33 - 62	14	68.9	4.7	6.9	69	48 - 90
Roche Integra	20	47.2	3.8	8.1	47	33 - 62	20	50.6	6.0	11.9	51	35 - 66
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	22	46.1	4.5	9.7	46	32 - 60	23	45.8	5.9	12.8	45	32 - 60
Vital Diagnostics Envoy 500	12	50.6	8.1	16.1	54	35 - 66	12	61.3	13.4	21.8	66	42 - 80
VITROS 250,350,500,700,750,950	27	39.2	4.5	11.5	40	27 - 51	27	43.9	7.9	17.9	44	30 - 58
All Chemistry Instruments	209	49.5	8.5	17.1	49	34 - 65	208	57.0	12.6	22.1	56	39 - 75

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-10

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	207	82.0	11.7	14.2	83	57 - 107
Calculated-Trig/5						
Alfa Wassermann ACE/NexCT/Alera	36	91.4	5.5	6.0	92	64 - 119
Beckman AU systems	16	74.3	5.7	7.7	74	51 - 97
Cholestech LDX - waived	4	-	-	-	94	57 - 107
Roche Integra	20	88.5	9.0	10.2	87	61 - 115
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	23	81.0	7.0	8.6	81	56 - 106
Vital Diagnostics Envoy 500	12	79.3	14.8	18.7	85	55 - 104
VITROS 250,350,500,700,750,950	27	68.3	10.2	15.0	69	47 - 89
All Chemistry Instruments	196	81.7	11.8	14.4	83	57 - 107

LDL Cholesterol - Direct (mg/dL)

Specimen CH-6

Specimen CH-7

<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	108	60.4	10.7	17.7	60	42 - 79	108	81.1	13.3	16.4	81	56 - 106
Roche LDL Direct												
Roche Integra	11	75.5	6.3	8.4	76	52 - 99	11	100.7	5.0	5.0	100	70 - 131
All Chemistry Instruments	14	76.2	5.7	7.5	78	53 - 100	14	101.6	4.8	4.7	101	71 - 133
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	24	63.1	4.2	6.6	63	44 - 83	24	83.6	4.1	4.9	83	58 - 109

LDL Cholesterol - Direct (mg/dL)

Specimen CH-8							Specimen CH-9					
<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	109	45.5	8.8	19.4	46	31 - 60	108	45.9	11.0	24.1	45	32 - 60
Roche LDL Direct												
Roche Integra	11	58.7	6.3	10.8	60	41 - 77	11	64.7	7.2	11.1	67	45 - 85
All Chemistry Instruments	14	59.4	5.7	9.7	61	41 - 78	14	65.9	6.7	10.2	67	46 - 86
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	24	47.6	3.1	6.5	47	33 - 62	24	46.8	3.9	8.3	47	32 - 61
Specimen CH-10												
All Method	108	71.2	12.9	18.1	71	49 - 93						
Roche LDL Direct												
Roche Integra	11	88.2	14.0	15.9	91	61 - 115						
All Chemistry Instruments	13	93.2	4.3	4.6	92	65 - 122						
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	24	73.2	4.8	6.5	73	51 - 96						

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	74.5	9.9	13.4	73	52 - 97	346	90.6	11.6	12.8	90	63 - 118
All Dex-Sulfate 50,000 MW Methods	72	82.9	10.5	12.7	83	58 - 108	66	98.2	6.5	6.6	100	68 - 128
All Direct Methods	184	70.0	6.7	9.6	70	49 - 92	189	87.1	10.9	12.5	84	60 - 114
All Phosphotungstic Acid Methods	28	70.6	4.7	6.7	68	49 - 92	29	83.5	10.2	12.3	79	58 - 109
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE/NexCT/Alera	18	67.9	4.3	6.4	69	47 - 89	18	84.9	4.6	5.4	85	59 - 111
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	24	68.2	3.8	5.5	67	47 - 89	24	85.0	6.0	7.1	84	59 - 111
Beckman (Olympus) AU Direct HDL / LDL												
Beckman AU systems	15	71.6	5.9	8.3	73	50 - 94	15	93.1	8.0	8.5	95	65 - 122
Beckman HDLD												
All Chemistry Instruments	10	93.0	3.6	3.9	95	65 - 121	10	114.7	3.8	3.3	116	80 - 150
Cholestech LDX												
Cholestech LDX - waived	42	87.4	7.9	9.1	90	61 - 114	37	100.0	0.0	0.0	100	70 - 130
All Chemistry Instruments	48	87.5	7.8	8.9	90	61 - 114	43	100.0	0.0	0.0	100	70 - 130
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	67.4	4.1	6.1	67	47 - 88	14	87.9	7.5	8.6	88	61 - 115
Roche HDL Direct												
Roche Integra	22	73.1	2.9	3.9	73	51 - 96	21	82.3	3.3	4.1	82	57 - 108
All Chemistry Instruments	27	72.7	2.9	3.9	73	50 - 95	26	81.7	3.5	4.3	82	57 - 107
Siemens Automated HDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	36	68.6	3.0	4.4	68	48 - 90	36	77.7	3.0	3.8	77	54 - 102
Vital Diagnostics Direct												
All Chemistry Instruments	13	80.7	12.6	15.6	79	56 - 105	13	103.4	10.4	10.1	101	72 - 135
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	25	78.3	5.2	6.7	78	54 - 102	25	102.2	7.0	6.9	103	71 - 133
All Chemistry Instruments	29	78.6	5.5	7.1	78	55 - 103	28	102.4	6.7	6.5	103	71 - 134

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	318	65.1	8.3	12.7	65	45 - 85	320	88.9	12.5	14.1	91	62 - 116
All Dex-Sulfate 50,000 MW Methods	41	67.9	8.8	12.9	67	47 - 89	42	86.6	9.7	11.2	88	60 - 113
All Direct Methods	190	63.9	8.9	13.9	64	44 - 84	191	87.2	13.7	15.7	89	61 - 114
All Phosphotungstic Acid Methods	28	65.9	4.8	7.2	66	46 - 86	28	91.8	6.8	7.4	93	64 - 120
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE/NexCT/Alera	18	58.4	3.2	5.4	60	40 - 76	18	73.9	5.5	7.4	75	51 - 97
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	24	58.0	3.4	5.8	58	40 - 76	24	75.1	5.6	7.4	75	52 - 98
Beckman (Olympus) AU Direct HDL / LDL												
Beckman AU systems	15	60.5	5.8	9.6	62	42 - 79	15	83.3	8.0	9.6	84	58 - 109
Beckman HDLD												
All Chemistry Instruments	10	82.2	3.4	4.2	84	57 - 107	10	111.1	4.4	4.0	111	77 - 145
Cholestech LDX												
Cholestech LDX - waived	14	72.2	5.7	7.9	73	50 - 94	15	85.4	7.6	8.8	85	59 - 112
All Chemistry Instruments	17	73.4	6.0	8.2	73	51 - 96	18	86.3	7.3	8.4	87	60 - 113
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	58.2	3.0	5.1	59	40 - 76	14	76.0	5.5	7.3	75	53 - 99
Roche HDL Direct												
Roche Integra	22	71.2	2.4	3.4	72	49 - 93	22	98.6	3.1	3.2	98	69 - 129
All Chemistry Instruments	27	70.6	2.6	3.7	70	49 - 92	27	98.0	3.3	3.3	98	68 - 128
Siemens Automated HDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	35	66.4	2.0	3.1	66	46 - 87	36	94.3	3.7	4.0	93	65 - 123
Vital Diagnostics Direct												
All Chemistry Instruments	13	69.3	11.1	16.0	70	48 - 91	13	94.1	14.9	15.9	94	65 - 123
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	25	66.5	3.4	5.2	66	46 - 87	25	99.0	6.0	6.0	99	69 - 129
All Chemistry Instruments	29	66.7	3.9	5.9	66	46 - 87	29	99.6	6.8	6.8	99	69 - 130

Cholesterol, HDL (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	312	93.4	11.1	11.9	91	65 - 122
All Dex-Sulfate 50,000 MW Methods	40	96.5	8.9	9.2	100	67 - 126
All Direct Methods	187	90.8	10.8	11.9	89	63 - 119
All Phosphotungstic Acid Methods	29	89.8	9.3	10.4	90	62 - 117
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE/NexCT/Alera	18	85.1	4.6	5.5	85	59 - 111
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	24	84.4	6.3	7.4	84	59 - 110
Beckman (Olympus) AU Direct HDL / LDL						
Beckman AU systems	15	92.9	8.4	9.0	95	65 - 121
Beckman HDLD						
All Chemistry Instruments	10	117.8	4.3	3.6	118	82 - 154
Cholestech LDX						
Cholestech LDX - waived	13	99.4	1.6	1.6	100	69 - 130
All Chemistry Instruments	14	100.0	0.0	0.0	100	70 - 130
Horiba ABX Pentra						
Horiba ABX Pentra 400	14	89.6	5.5	6.1	89	62 - 117
Roche HDL Direct						
Roche Integra	22	91.9	4.1	4.5	92	64 - 120
All Chemistry Instruments	26	90.7	3.4	3.8	91	63 - 118
Siemens Automated HDL						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	36	87.3	3.6	4.2	88	61 - 114
Vital Diagnostics Direct						
All Chemistry Instruments	13	106.7	14.5	13.6	104	74 - 139
VITROS dHDL Slide						
VITROS 250,350,500,700,750,950	25	108.0	9.6	8.8	108	75 - 141
All Chemistry Instruments	29	108.8	10.3	9.5	108	76 - 142

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	346	183.2	10.5	5.7	181	137 - 230	352	235.5	17.3	7.4	231	176 - 295
All Alfa Wassermann Reagents	53	177.7	4.7	2.6	178	133 - 223	53	222.1	6.4	2.9	222	166 - 278
All Horiba Pentra Reagents	17	180.8	3.3	1.8	181	135 - 227	17	226.8	8.5	3.8	227	170 - 284
All Roche Integra/c111/c501 Reagents	38	178.3	6.0	3.3	178	133 - 223	38	223.5	7.4	3.3	223	167 - 280
All Vital Diagnostics Reagents	26	181.7	5.7	3.1	182	136 - 228	26	235.9	8.1	3.5	235	176 - 295
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	49	177.9	4.6	2.6	178	133 - 223	49	222.3	6.2	2.8	222	166 - 278
Beckman - cartridge												
All Chemistry Instruments	11	186.2	7.7	4.1	185	139 - 233	11	242.4	12.5	5.2	241	181 - 303
Beckman AU												
Beckman AU systems	22	182.0	4.1	2.2	183	136 - 228	22	232.5	6.0	2.6	232	174 - 291
Cholestech LDX												
Cholestech LDX - waived	41	183.8	7.9	4.3	184	137 - 230	41	241.2	9.3	3.9	241	180 - 302
All Chemistry Instruments	47	184.5	8.1	4.4	185	138 - 231	46	241.6	8.9	3.7	242	181 - 302
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	180.8	3.4	1.9	182	135 - 227	16	226.8	8.8	3.9	227	170 - 284
Pointe Scientific												
All Chemistry Instruments	10	183.5	10.2	5.6	187	137 - 230	10	230.2	7.1	3.1	233	172 - 288
Roche Integra												
Roche Integra	31	177.6	5.0	2.8	177	133 - 223	31	222.6	6.1	2.8	222	166 - 279
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	50	177.4	3.2	1.8	177	133 - 222	50	229.6	3.4	1.5	230	172 - 287
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	182.9	5.4	3.0	184	137 - 229	16	235.8	7.9	3.4	234	176 - 295
All Chemistry Instruments	24	181.8	5.9	3.2	182	136 - 228	24	236.7	7.8	3.3	236	177 - 296
VITROS												
VITROS 250,350,500,700,750,950	29	207.7	6.6	3.2	209	155 - 260	29	273.0	7.9	2.9	274	204 - 342
All Chemistry Instruments	36	206.8	6.4	3.1	208	155 - 259	36	272.1	7.6	2.8	274	204 - 341

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	315	139.0	7.7	5.6	138	104 - 174	311	113.1	6.7	5.9	112	84 - 142
All Alfa Wassermann Reagents	51	138.3	3.9	2.8	139	103 - 173	52	110.7	3.2	2.9	111	83 - 139
All Horiba Pentra Reagents	18	137.7	6.0	4.4	138	103 - 173	18	112.5	6.0	5.3	112	84 - 141
All Roche Integra/c111/c501 Reagents	38	137.2	4.5	3.3	137	102 - 172	38	110.0	4.1	3.7	110	82 - 138
All Vital Diagnostics Reagents	26	137.9	5.7	4.1	138	103 - 173	26	117.5	4.8	4.1	118	88 - 147
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	47	138.5	3.7	2.7	139	103 - 174	48	110.8	3.1	2.8	111	83 - 139
Beckman - cartridge												
All Chemistry Instruments	11	138.8	5.5	4.0	138	104 - 174	11	114.0	5.3	4.7	113	85 - 143
Beckman AU												
Beckman AU systems	21	138.4	2.6	1.9	138	103 - 174	22	112.8	2.8	2.5	113	84 - 142
Cholestech LDX												
Cholestech LDX - waived	15	137.9	5.3	3.8	138	103 - 173	14	109.9	5.3	4.8	110	82 - 138
All Chemistry Instruments	18	137.4	5.0	3.7	138	103 - 172	17	109.5	5.1	4.6	109	82 - 137
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	137.7	6.2	4.5	138	103 - 173	17	112.6	6.2	5.5	112	84 - 141
Pointe Scientific												
All Chemistry Instruments	10	138.8	8.0	5.7	140	104 - 174	10	108.4	12.9	11.9	114	81 - 136
Roche Integra												
Roche Integra	31	136.8	4.1	3.0	136	102 - 172	30	109.0	2.5	2.3	109	81 - 137
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	50	132.9	2.6	1.9	133	99 - 167	50	109.7	2.5	2.2	110	82 - 138
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	139.9	5.5	3.9	140	104 - 175	16	119.2	3.6	3.1	119	89 - 149
All Chemistry Instruments	24	138.2	5.8	4.2	139	103 - 173	24	117.8	4.9	4.2	118	88 - 148
VITROS												
VITROS 250,350,500,700,750,950	29	155.4	6.5	4.2	155	116 - 195	28	126.3	5.2	4.1	128	94 - 158
All Chemistry Instruments	36	154.4	6.3	4.1	153	115 - 193	35	125.5	4.9	3.9	125	94 - 157

Triglycerides (mg/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	318	196.3	14.4	7.3	193	147 - 246
All Alfa Wassermann Reagents	52	187.0	6.2	3.3	187	140 - 234
All Horiba Pentra Reagents	18	191.6	8.8	4.6	191	143 - 240
All Roche Integra/c111/c501 Reagents	37	186.3	5.8	3.1	186	139 - 233
All Vital Diagnostics Reagents	26	199.1	9.6	4.8	198	149 - 249
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	48	187.3	6.1	3.3	187	140 - 235
Beckman - cartridge						
All Chemistry Instruments	11	200.1	7.0	3.5	200	150 - 251
Beckman AU						
Beckman AU systems	22	195.1	5.4	2.8	195	146 - 244
Cholestech LDX						
Cholestech LDX - waived	15	198.4	7.4	3.8	199	148 - 248
All Chemistry Instruments	18	198.5	7.2	3.6	199	148 - 249
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	191.6	9.0	4.7	191	143 - 240
Pointe Scientific						
All Chemistry Instruments	10	189.7	11.0	5.8	196	142 - 238
Roche Integra						
Roche Integra	30	185.6	4.6	2.5	185	139 - 233
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	52	192.4	3.6	1.9	193	144 - 241
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	201.1	9.3	4.6	199	150 - 252
All Chemistry Instruments	24	199.7	9.7	4.9	198	149 - 250
VITROS						
VITROS 250,350,500,700,750,950	29	228.4	7.1	3.1	231	171 - 286
All Chemistry Instruments	36	227.8	6.8	3.0	229	170 - 285

Acetaminophen (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	64.52	5.91	9.2	64.3	46.7 - 82.3	5	91.04	5.37	5.9	91.5	74.9 - 107.2
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<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	38.70	5.46	14.1	40.3	22.3 - 55.1	5	14.36	1.88	13.1	14.0	8.7 - 20.1
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	66.20	4.44	6.7	65.0	52.8 - 79.6						

Carbamazepine (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	5.72	0.53	9.3	5.6	4.2 - 7.2	9	10.20	0.59	5.7	10.2	7.6 - 12.8
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	5.56	0.15	2.7	5.6	4.1 - 7.0	5	9.84	0.36	3.6	9.8	7.3 - 12.3
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<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	4.62	0.29	6.2	4.5	3.4 - 5.8	9	13.32	0.76	5.7	13.1	9.9 - 16.7
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	4.62	0.16	3.6	4.5	3.4 - 5.8	5	12.84	0.51	4.0	12.6	9.6 - 16.1
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	12.11	0.68	5.6	12.0	9.0 - 15.2						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	11.70	0.27	2.3	11.7	8.7 - 14.7						

Digoxin (ng/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	1.54	0.19	12.2	1.5	1.2 - 1.9	28	2.20	0.31	14.1	2.2	1.7 - 2.7
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	1.04	0.16	15.3	1.0	0.8 - 1.3	28	1.16	0.19	16.6	1.2	0.9 - 1.4
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	1.94	0.22	11.5	2.0	1.5 - 2.4						

Gentamicin (mcg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	-	-	-	7.0	Not graded	2	-	-	-	2.4	Not graded
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	-	-	-	9.0	Not graded	2	-	-	-	3.7	Not graded
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	-	-	-	2.0	Not graded						

Lithium (mmol/L)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	1.42	0.36	25.35	1.6	1.1 - 1.8	5	0.64	0.19	29.69	0.7	0.3 - 1.0
			Specimen CH-8						Specimen CH-9			
			<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	2.16	0.09	4.17	2.1	1.7 - 2.6	5	1.22	0.15	12.30	1.2	0.9 - 1.6
			Specimen CH-10									
			<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	0.66	0.15	22.73	0.7	0.3 - 1.0						

Phenobarbital (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	30.00	1.40	4.7	29.7	24.0 - 36.0	5	42.40	3.10	7.3	43.9	33.9 - 50.9
			Specimen CH-8						Specimen CH-9			
			<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	22.42	1.46	6.5	22.7	17.9 - 27.0	5	27.00	1.92	7.1	27.6	21.6 - 32.4
			Specimen CH-10									
			<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	39.32	2.30	5.8	39.2	31.4 - 47.2						

Phenytoin (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	13	10.88	0.65	6.0	11.0	8.1 - 13.6	13	19.07	1.08	5.6	18.8	14.3 - 23.9
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<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	13	9.32	0.62	6.6	9.3	6.9 - 11.7	13	25.15	1.93	7.7	25.0	18.8 - 31.5
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	13	23.05	1.54	6.7	23.3	17.2 - 28.9						

Salicylate (mg/dL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	3	-	-	-	23.5	Not graded	3	-	-	-	31.0	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<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	3	-	-	-	16.1	Not graded	3	-	-	-	11.0	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	3	-	-	-	25.0	Not graded						

Theophylline (mcg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	15.52	0.63	4.1	15.7	11.6 - 19.4	6	17.42	0.94	5.4	17.3	13.0 - 21.8
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	18.97	1.35	7.1	18.7	14.2 - 23.8	6	36.87	2.21	6.0	36.5	27.6 - 46.1
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	24.87	0.71	2.9	24.8	18.6 - 31.1						

Valproic Acid (mcg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	103.56	9.04	8.7	103.2	77.6 - 129.5	9	101.31	7.83	7.7	100.8	75.9 - 126.7
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	97.80	4.10	4.2	96.9	73.3 - 122.3	5	97.08	3.87	4.0	95.7	72.8 - 121.4
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	94.78	11.57	12.2	95.0	71.0 - 118.5	9	55.00	4.27	7.8	54.6	41.2 - 68.8
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	93.66	2.05	2.2	93.8	70.2 - 117.1	5	54.22	1.13	2.1	54.6	40.6 - 67.8
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	83.58	7.89	9.4	80.5	62.6 - 104.5						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	79.80	2.15	2.7	79.5	59.8 - 99.8						

Vancomycin (mcg/mL)

Specimen CH-6							Specimen CH-7					
<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	23.77	1.58	6.7	23.8	19.0 - 28.6	6	40.92	4.14	10.1	41.2	28.4 - 53.4
Specimen CH-8							Specimen CH-9					
All Method	6	13.25	1.68	12.7	13.0	8.2 - 18.3	6	21.35	1.60	7.5	21.1	16.5 - 26.2
Specimen CH-10												
All Method	6	36.95	2.74	7.4	37.4	28.7 - 45.2						

Apolipoprotein A1 (mg/dL)

Specimen LP-3							Specimen LP-4					
<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	133.2	28.3	21.3	135	93 - 174	5	246.4	51.2	20.8	230	172 - 321

Apolipoprotein B (mg/dL)

Specimen LP-3							Specimen LP-4					
<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	82.2	17.8	21.6	80	61 - 103	5	167.4	28.3	16.9	162	125 - 210

Neonatal Bilirubin, Total (mg/dL)

		Specimen NB-6					Specimen NB-7					
<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	20	19.66	1.32	6.7	19.7	15.7 - 23.6	22	17.50	1.46	8.4	17.5	14.0 - 21.0
No Reagent Required												
All Chemistry Instruments	11	20.42	0.85	4.2	20.5	16.3 - 24.6	11	17.96	1.16	6.5	17.8	14.3 - 21.6
		Specimen NB-8					Specimen NB-9					
All Method	22	6.82	0.44	6.5	7.0	5.4 - 8.2	22	13.35	1.00	7.5	13.6	10.6 - 16.1
No Reagent Required												
All Chemistry Instruments	11	6.97	0.22	3.1	7.0	5.5 - 8.4	11	13.65	0.59	4.3	13.7	10.9 - 16.4
		Specimen NB-10										
All Method	22	2.85	0.27	9.5	2.9	2.2 - 3.5						
No Reagent Required												
All Chemistry Instruments	11	2.75	0.26	9.5	2.6	2.2 - 3.4						

Bilirubin, Direct (mg/dL)

		Specimen NB-6					Specimen NB-7					
<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	10	10.07	1.64	16.3	9.8	6.7 - 13.4	10	8.86	1.44	16.3	8.6	5.9 - 11.8
		Specimen NB-8					Specimen NB-9					
All Method	10	3.33	0.44	13.1	3.3	2.4 - 4.3	10	6.51	0.88	13.5	6.4	4.7 - 8.3
		Specimen NB-10										
All Method	10	0.67	0.13	20.0	0.6	0.4 - 1.0						

Blood Gases – pH

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-6				<u>Labs</u>	<u>Mean</u>	Specimen BG-7			
			<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	6.991	0.016	0.2	6.99	6.95 - 7.04	11	7.436	0.011	0.2	7.43	7.39 - 7.48
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-8				<u>Labs</u>	<u>Mean</u>	Specimen BG-9			
			<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	7.607	0.024	0.3	7.61	7.56 - 7.65	11	7.264	0.012	0.2	7.26	7.22 - 7.31
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	7.763	0.024	0.3	7.77	7.72 - 7.81						

Blood Gases - pCO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-6				<u>Labs</u>	<u>Mean</u>	Specimen BG-7			
			<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	69.07	3.01	4.4	69.0	63.5 - 74.6	11	35.25	1.90	5.4	34.7	30.2 - 40.3
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-8				<u>Labs</u>	<u>Mean</u>	Specimen BG-9			
			<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	23.95	1.44	6.0	23.3	18.9 - 29.0	11	50.12	2.94	5.9	49.3	45.1 - 55.2
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	18.33	1.20	6.6	18.4	13.3 - 23.4						

Blood Gases - pO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-6				<u>Labs</u>	<u>Mean</u>	Specimen BG-7			
			<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	119.75	8.56	7.1	117.3	94.0 - 145.5	11	100.81	6.85	6.8	100.0	80.2 - 121.4
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-8				<u>Labs</u>	<u>Mean</u>	Specimen BG-9			
			<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	86.03	6.33	7.4	86.0	67.0 - 105.1	11	146.23	8.30	5.7	147.0	121.3 - 171.2
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	190.18	17.56	9.2	195.0	137.5 - 242.9						

Blood Gases – Ionized Calcium (mmol/L)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-6				<u>Labs</u>	<u>Mean</u>	Specimen BG-7			
			<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	1.823	0.045	2.47	1.82	1.68 - 1.96	5	1.230	0.030	2.44	1.23	1.14 - 1.32

Blood Gases – Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-6 through BG-10 are: 133.4 mmol/L, 99.3 mmol/L, 103.1 mmol/L, 85.1 mmol/L, and 111.6 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-6				<u>Labs</u>	<u>Mean</u>	Specimen BG-7			
			<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	2	-	-	-	6.1	5.6 - 6.6	2	-	-	-	4.3	3.7 - 4.8
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-8				<u>Labs</u>	<u>Mean</u>	Specimen BG-9			
			<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	2	-	-	-	4.8	4.3 - 5.3	2	-	-	-	2.5	2.0 - 3.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	2	-	-	-	2.3	1.7 - 2.8						

Blood Gases - Sodium (mmol/L)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-6				<u>Labs</u>	<u>Mean</u>	Specimen BG-7			
			<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	2	-	-	-	154	150 - 158	2	-	-	-	137	132 - 141
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-8				<u>Labs</u>	<u>Mean</u>	Specimen BG-9			
			<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	2	-	-	-	141	136 - 145	2	-	-	-	123	118 - 127
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	2	-	-	-	157	153 - 161						

Glycohemoglobin (percent)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen GH-3				<u>Labs</u>	<u>Mean</u>	Specimen GH-4			
			<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	283	8.17	0.36	4.4	8.2	7.3 - 9.0	282	5.78	0.25	4.4	5.8	5.2 - 6.4
All Hemoglobin A1c Methods	280	8.17	0.36	4.4	8.2	7.3 - 9.0	279	5.78	0.25	4.4	5.8	5.2 - 6.4
Bayer DCA 2000/+	22	8.42	0.28	3.3	8.4	7.5 - 9.3	22	6.00	0.22	3.6	6.0	5.4 - 6.7
Bio-Rad D-10 HbA1C	10	7.77	0.23	2.9	7.8	6.9 - 8.6	10	5.66	0.16	2.8	5.7	5.0 - 6.3
Olympus AU A1c	13	8.37	0.43	5.1	8.4	7.5 - 9.3	13	5.85	0.27	4.6	5.8	5.2 - 6.5
Other HbA1C Method	10	7.99	0.46	5.7	7.9	7.1 - 8.8	10	5.81	0.26	4.5	5.8	5.2 - 6.4
Roche Integra A1C	14	7.96	0.27	3.4	8.1	7.1 - 8.8	14	5.73	0.34	5.9	5.8	5.1 - 6.4
Siemens DCA Vantage	112	8.19	0.27	3.3	8.2	7.3 - 9.1	108	5.84	0.16	2.7	5.9	5.2 - 6.5
Siemens Dimension HB1C	40	8.29	0.20	2.4	8.3	7.4 - 9.2	41	5.67	0.22	4.0	5.7	5.1 - 6.3
TOSOH G7	10	7.78	0.13	1.7	7.7	7.0 - 8.6	10	5.51	0.17	3.1	5.5	4.9 - 6.1

B-Type Natriuretic Peptide (BNP)

<u>Method</u>	Specimen BNP-3						Specimen BNP-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	27	55.4	7.1	12.8	57	34 - 77	28	1431.3	176.8	12.4	1430	900 - 1962
Biosite Triage	25	55.8	5.4	9.7	56	39 - 72	27	1434.1	179.6	12.5	1430	895 - 1973

NT-proBNP

<u>Method</u>	Specimen BNP-3						Specimen BNP-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	6	142.8	55.4	38.8	168	31 - 254	6	5647.5	2793.4	49.5	7337	60 - 11235

Afinion Glycohemoglobin (percent)

<u>Method</u>	Specimen AFN-3						Specimen AFN-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>
Axis-Shield Afinion AS100	34	6.29	0.14	2.2	6.3	5.6 - 7.0	33	7.98	0.11	1.4	8.0	7.1 - 8.8

BNP (pg/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	Specimen TCK-6						Specimen TCK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<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	29	69.4	9.9	14.2	70	39 - 100	29	1187.7	237.9	20.0	1170	474 - 1902
<u>Method</u>	Specimen TCK-8						Specimen TCK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<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	29	366.4	51.8	14.2	361	210 - 522	29	1996.2	436.5	21.9	1940	686 - 3306
<u>Method</u>	Specimen TCK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	29	651.2	116.8	17.9	632	300 - 1002						

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

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-6				<u>Labs</u>	<u>Mean</u>	Specimen TCK-7			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	25	3.2	0.6	17.5	3	1 - 5	27	24.4	4.0	16.3	23	12 - 37
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-8				<u>Labs</u>	<u>Mean</u>	Specimen TCK-9			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	27	8.3	1.4	17.3	8	4 - 13	28	42.9	7.9	18.4	42	19 - 67
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	28	14.1	2.7	18.8	14	6 - 23						

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

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-6				<u>Labs</u>	<u>Mean</u>	Specimen TCK-7			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u> <u>n</u>	<u>Range</u>
Biosite Triage	23	295.8	54.0	18.3	291	207 - 385	23	1122.4	150.4	13.4	1130	785 - 1460
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-8				<u>Labs</u>	<u>Mean</u>	Specimen TCK-9			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	24	543.3	61.4	11.3	540	380 - 707	24	1852.9	228.9	12.4	1890	1297 - 2409
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	24	769.6	74.1	9.6	773	538 - 1001						

Myoglobin (ng/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-6				<u>Labs</u>	<u>Mean</u>	Specimen TCK-7			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	11	56.5	10.0	17.7	55	39 - 74	11	295.2	38.6	13.1	286	206 - 384
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-8				<u>Labs</u>	<u>Mean</u>	Specimen TCK-9			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	11	131.7	18.6	14.1	128	92 - 172	11	459.6	76.3	16.6	493	321 - 598
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	11	185.3	37.9	20.5	184	129 - 241						

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

Specimen TCK-6							Specimen TCK-7					
<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	29	0.050	0.000	0.0	0.05	0.03 - 0.07	29	4.468	0.950	21.3	4.36	2.56 - 6.37
Specimen TCK-8							Specimen TCK-9					
Biosite Triage	29	0.586	0.130	22.2	0.56	0.32 - 0.85	30	10.095	2.174	21.5	9.96	5.74 - 14.45
Specimen TCK-10												
Biosite Triage	30	1.608	0.406	25.3	1.60	0.79 - 2.43						

C-Peptide (ng/mL)

Specimen CIP-3							Specimen CIP-4					
<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	9	3.279	1.330	40.6	2.60	0.61 - 5.94	9	4.791	2.063	43.1	3.90	0.66 - 8.92

Insulin (μU/mL)

Specimen CIP-3							Specimen CIP-4					
<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	14	55.64	18.21	32.7	62.1	19.2 - 92.1	14	77.46	24.05	31.0	85.5	29.3 - 125.6

Parathyroid hormone (pg/mL)

Specimen CIP-3							Specimen CIP-4					
<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	56.5	11.4	20.1	54	33 - 80	35	65.1	14.1	21.6	61	36 - 94

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

Specimen CIP-3							Specimen CIP-4					
<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	45	31.62	9.91	31.3	29.8	11.8 - 51.5	44	39.68	12.54	31.6	36.2	14.6 - 64.8
Abbott Architect	13	27.52	1.74	6.3	26.8	24.0 - 31.1	13	34.42	2.03	5.9	34.3	30.3 - 38.5

CK-MB (ng/mL) Quantitative

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	5.30	1.55	29.2	5.5	0.6 - 10.0	22	47.86	15.18	31.7	48.1	2.3 - 93.5
<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	15.35	5.14	33.5	15.7	0.0 - 30.8	22	80.31	26.40	32.9	81.1	1.1 - 159.5
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	22	25.99	8.43	32.5	26.5	0.6 - 51.3						

CK-MB (Qualitative)

<u>Method</u>	Specimen CK-6		Specimen CK-7		Specimen CK-8	
	<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-9		Specimen CK-10			
	<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-3						Specimen CK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	49.60	11.42	23.0	45.5	34.7 - 64.5	12	254.24	53.62	21.1	257.5	177.9 - 330.6

Myoglobin (Qualitative)

<u>Method</u>	Specimen CK-3		Specimen CK-4	
	<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-3						Specimen CK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	0.131	0.208	158.5	0.04	0.00 - 0.55	20	9.584	14.83 5	154.8	2.15	0.00 - 39.26

Troponin I (Qualitative)

<u>Method</u>	Specimen CK-3		Specimen CK-4	
	<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-3						Specimen PS-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	220	13.447	2.155	16.0	13.14	9.41 - 17.49	220	19.145	3.229	16.9	18.70	13.40 - 24.89
All Roche Elecsys/cobas e 601 Instruments	11	15.008	1.422	9.5	14.60	10.50 - 19.52	11	21.630	2.145	9.9	20.90	15.14 - 28.12
All TOSOH Instruments	50	11.469	0.574	5.0	11.47	8.02 - 14.92	49	16.301	0.673	4.1	16.23	11.41 - 21.20
Abbott Architect	17	12.266	0.684	5.6	12.20	8.58 - 15.95	17	17.514	0.870	5.0	17.40	12.25 - 22.77
Beckman ACCESS / 2 / Dxl	16	14.771	1.267	8.6	15.03	10.33 - 19.21	16	21.638	1.703	7.9	21.78	15.14 - 28.13
Beckman ACCESS Hybritech PSA	26	15.383	0.876	5.7	15.30	10.76 - 20.00	26	22.276	1.262	5.7	22.18	15.59 - 28.96
bioMerieux Vidas, Mini Vidas	36	14.759	1.348	9.1	14.52	10.33 - 19.19	38	21.043	2.300	10.9	21.36	14.73 - 27.36
Qualigen FastPack	10	17.890	1.945	10.9	18.00	12.52 - 23.26	10	27.340	4.119	15.1	28.20	19.13 - 35.55
Roche Elecsys 1010/2010	10	15.077	1.480	9.8	14.72	10.55 - 19.61	10	21.748	2.223	10.2	21.08	15.22 - 28.28
Siemens Dimension TPSA	28	12.786	0.516	4.0	12.69	8.95 - 16.63	27	18.672	0.783	4.2	18.65	13.07 - 24.28
TOSOH AIA	13	11.543	0.489	4.2	11.44	8.08 - 15.01	13	16.419	0.659	4.0	16.43	11.49 - 21.35
TOSOH ST AIA	37	11.444	0.605	5.3	11.50	8.01 - 14.88	36	16.258	0.682	4.2	16.15	11.38 - 21.14

Beta-2 microglobulin

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	2.634	1.663	63.1	2.14	0.00 - 7.63	8	1.526	1.058	69.3	1.20	0.00 - 4.71
TOSOH ST AIA	5	2.980	2.101	70.5	2.10	0.00 - 9.29	5	1.732	1.349	77.9	1.20	0.00 - 5.78

CA 125 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	107.8	25.6	23.7	111	75 - 141	26	63.5	14.6	23.0	64	44 - 83
All TOSOH Instruments	13	131.5	7.9	6.0	132	92 - 171	13	76.5	6.1	8.0	77	53 - 100

CA 15-3 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	87.1	25.4	29.2	95	10 - 164	11	54.4	13.2	24.3	58	14 - 94

CA 19-9 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	38.3	14.7	38.4	34	0 - 83	7	27.0	9.0	33.4	23	0 - 55

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	95.2	14.9	15.6	94	50 - 140	20	61.7	8.6	13.9	59	35 - 88
All TOSOH Instruments	19	93.1	12.1	12.9	93	56 - 130	19	60.8	8.0	13.2	58	36 - 85
TOSOH ST AIA	12	93.8	6.7	7.1	94	73 - 114	12	61.3	6.1	10.0	59	42 - 80

CEA (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	17.58	5.09	29.0	26.7	12.3 - 22.9	13	11.06	3.13	28.3	16.8	7.7 - 14.4
All TOSOH Instruments	19	28.01	1.32	4.7	28.2	19.6 - 36.5	19	17.87	0.82	4.6	18.1	12.5 - 23.3
TOSOH ST AIA	12	28.52	1.20	4.2	28.4	19.9 - 37.1	12	18.17	0.72	4.0	18.2	12.7 - 23.7

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	8.968	1.959	21.8	8.29	6.27 - 11.66	17	4.435	1.008	22.7	4.10	3.10 - 5.77

PSA (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	56	9.023	1.486	16.5	8.87	6.31 - 11.74	56	4.552	0.726	15.9	4.49	3.18 - 5.92
All TOSOH Instruments	17	8.321	0.397	4.8	8.27	5.82 - 10.82	17	4.242	0.209	4.9	4.22	2.96 - 5.52
Beckman ACCESS / 2 / Dxl	12	9.698	1.809	18.7	10.20	6.78 - 12.61	12	4.888	0.862	17.6	5.19	3.42 - 6.36
TOSOH ST AIA	11	8.365	0.329	3.9	8.33	5.85 - 10.88	11	4.281	0.164	3.8	4.23	2.99 - 5.57

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	21.25	1.48	7.0	21.8	18.2 - 24.3	6	10.47	1.00	9.5	10.6	8.4 - 12.5

CEA (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	15.05	3.99	26.5	17.1	10.5 - 19.6	13	22.27	5.89	26.5	24.0	15.5 - 29.0
All TOSOH Instruments	10	17.84	2.00	11.2	17.5	12.4 - 23.2	10	23.51	2.94	12.5	24.2	16.4 - 30.6

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	45	262.5	105.3	40.1	209	51 - 474	45	350.4	131.1	37.4	286	88 - 613
All TOSOH Instruments	12	422.0	56.0	13.3	427	310 - 534	12	549.8	51.5	9.4	552	446 - 653

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	69	170.5	23.2	13.6	144	119 - 222	69	244.3	30.0	12.3	206	171 - 318
All Immulite Instruments	13	164.8	22.9	13.9	166	115 - 215	13	238.6	19.6	8.2	237	167 - 311
All Roche Elecsys/Cobas Instruments	10	187.3	10.8	5.8	190	131 - 244	10	272.4	17.9	6.6	275	190 - 355
All TOSOH Instruments	31	131.6	5.5	4.2	131	92 - 172	31	186.6	12.6	6.8	187	130 - 243
Beckman ACCESS / 2 / Dxl	37	137.1	16.7	12.2	134	95 - 179	37	197.9	24.0	12.1	195	138 - 258
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	15	172.7	5.5	3.2	174	120 - 225	15	249.0	8.5	3.4	251	174 - 324
TOSOH AIA	11	129.8	3.5	2.7	130	90 - 169	11	182.1	18.2	10.0	188	127 - 237
TOSOH ST AIA	20	132.6	6.2	4.7	133	92 - 173	20	189.1	7.6	4.0	187	132 - 246

Folate (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	86	4.54	0.61	13.5	4.6	3.1 - 6.0	85	6.35	0.88	13.9	6.5	4.4 - 8.3
All TOSOH Instruments	16	4.34	0.89	20.6	4.3	3.0 - 5.7	16	5.53	0.97	17.6	5.5	3.8 - 7.2
Beckman ACCESS / 2 / Dxl	36	4.58	0.53	11.7	4.7	3.2 - 6.0	36	6.54	0.66	10.1	6.8	4.5 - 8.6
TOSOH AIA	13	4.43	0.97	21.8	4.4	3.1 - 5.8	13	5.62	1.05	18.8	5.8	3.9 - 7.4

FSH (mIU/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	55	33.61	4.43	13.2	34.3	25.2 - 42.1	54	43.09	5.34	12.4	43.6	32.3 - 53.9
All TOSOH Instruments	12	36.52	2.24	6.1	36.6	27.3 - 45.7	12	45.55	2.47	5.4	45.6	34.1 - 57.0
Beckman ACCESS / 2 / Dxl	13	34.82	3.22	9.2	35.5	26.1 - 43.6	13	44.86	2.89	6.4	44.9	33.6 - 56.1

Homocysteine (μmol/L)

<u>Method</u>	Specimen SC-3						Specimen SC-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	17	21.6	2.3	10.5	22	17 - 26	17	28.8	3.8	13.0	28	23 - 35

LH (mIU/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	46	30.37	6.93	22.8	29.7	16.5 - 44.3	47	42.37	9.32	22.0	42.7	23.7 - 61.1
Beckman ACCESS / 2 / Dxl	11	21.79	0.77	3.5	21.9	20.2 - 23.4	11	30.14	1.94	6.4	30.8	26.2 - 34.1

Progesterone (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	30	25.95	4.39	16.9	26.5	18.1 - 33.8	30	34.64	5.59	16.1	34.7	24.2 - 45.1
All TOSOH Instruments	11	26.93	2.86	10.6	26.3	18.8 - 35.1	11	35.44	2.77	7.8	34.8	24.8 - 46.1

Prolactin (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	33	10.37	1.30	12.5	10.1	6.7 - 14.0	33	13.54	2.37	17.5	13.1	9.4 - 17.7

Testosterone (ng/dL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	94	664.9	113.4	17.1	654	465 - 865	93	852.1	131.5	15.4	843	596 - 1108
All Immulite Instruments	11	725.5	106.4	14.7	723	507 - 944	11	978.6	174.4	17.8	970	685 - 1273
All TOSOH Instruments	18	766.6	45.9	6.0	780	536 - 997	18	970.9	44.2	4.5	961	679 - 1263
Beckman ACCESS / 2 / Dxl	27	557.7	38.7	6.9	555	390 - 726	27	732.0	56.8	7.8	732	512 - 952
TOSOH ST AIA	10	771.0	44.8	5.8	779	539 - 1003	10	978.6	49.3	5.0	978	685 - 1273

Transferrin (mg/dL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	181.4	6.8	3.8	181	168 - 195	13	229.3	7.8	3.4	228	213 - 246

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	104	897.6	101.0	11.3	896	628 - 1167	105	1068.8	110.7	10.4	1051	748 - 1390
All Roche Elecsys/Cobas Instruments	10	927.4	64.6	7.0	926	649 - 1206	10	1132.5	79.3	7.0	1132	792 - 1473
All TOSOH Instruments	18	950.5	65.2	6.9	943	665 - 1236	18	1095.7	82.1	7.5	1080	767 - 1425
Abbott Architect	12	989.3	87.7	8.9	964	692 - 1287	12	1138.3	84.4	7.4	1140	796 - 1480
Beckman ACCESS / 2 / Dxl	42	830.0	98.7	11.9	832	581 - 1080	42	1016.4	118.7	11.7	999	711 - 1322
TOSOH AIA	15	953.7	63.1	6.6	945	667 - 1240	15	1099.1	75.5	6.9	1085	769 - 1429

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-6						Specimen ETH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	198.0	18.8	9.5	203	148 - 248	7	26.9	3.2	12.1	25	20 - 34
Roche Integra	5	203.2	3.6	1.8	203	152 - 254	5	26.0	2.8	10.9	25	19 - 33

<u>Method</u>	Specimen ETH-8						Specimen ETH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	65.3	6.1	9.4	66	48 - 82	7	143.3	13.1	9.2	144	107 - 180
Roche Integra	5	67.2	3.1	4.6	66	50 - 84	5	144.0	3.2	2.2	143	108 - 180

<u>Method</u>	Specimen ETH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	181.9	19.6	10.8	187	136 - 228						
Roche Integra	5	185.2	3.1	1.7	186	138 - 232						

Acetone

<u>Method</u>	Specimen ETH-6					Specimen ETH-7				
	<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	7	-	1	6	-	7	7	-	-	-
	Specimen ETH-8					Specimen ETH-9				
	<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	7	3	4	-	-	7	7	-	-	-
	Specimen ETH-10									
	<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	7	7	-	-	-					

Anti-Thyroglobulin Antibody (IU/mL)

<u>Method</u>	Specimen THY-3						Specimen THY-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	24	1834.6	771.1	42.0	1661	292 - 3377	24	8.6	9.1	106.0	6	0 - 27

Anti-Microsomal Antibody (IU/mL)

<u>Method</u>	Specimen THY-3						Specimen THY-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	26	46.4	7.9	17.1	45	30 - 63	26	6.6	8.4	127.0	1	0 - 24

Urine Drug Screen

Acetaminophen

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	5	5	-	5	-	5
Instant Technologies i Cassette	4	4	-	4	-	4

Amphetamines

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	108	-	108	109	109	-
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	22	-	22	22	22	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Dade Behring EMIT II Plus	6	-	6	6	6	-
Innovacon Multi-CLIN Drug Screen	1	-	1	1	1	-
Innovacon Multi-Drug One Step	2	-	2	2	2	-
Instant Technologies i Cassette	6	-	6	6	6	-
Instant Technologies i Screen	10	-	10	10	10	-
Instant Technologies iCup	8	-	8	8	8	-
Integrated E-Z Split Key Cup / II	2	-	2	2	2	-
Lin-Zhi International	10	-	10	10	10	-
MEDTOX Diagnostics	6	-	6	6	6	-
Microgenics DRI	6	-	6	6	6	-
Mindray BS-200	1	-	1	1	1	-
Noble Medical Inc.	4	-	4	4	4	-
Redwood Toxicology Reditest	1	-	1	1	1	-
Roche Integra	2	-	2	2	2	-

Barbiturates

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	75	-	75	76	-	76
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	1	-	1	1	-	1
Instant Technologies i Cassette	6	-	6	6	-	6
Instant Technologies i Screen	10	-	10	10	-	10
Instant Technologies iCup	7	-	7	7	-	7
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	10	-	10	10	-	10
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	5	-	5	5	-	5
Mindray BS-200	1	-	1	1	-	1
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	2	-	2	2	-	2

Benzodiazepines

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	82	-	82	81	-	81
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	6	-	6	6	-	6
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Instant Technologies i Cassette	6	-	6	6	-	6
Instant Technologies i Screen	10	-	10	10	-	10
Instant Technologies iCup	8	-	8	8	-	8
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	11	-	11	11	-	11
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	6	-	6	5	-	5
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	2	-	2	2	-	2

Buprenorphine

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	21	-	21	21	-	21
Dade Behring EMIT II Plus	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	4	-	4	4	-	4
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics CEDIA	4	-	4	4	-	4
Mindray BS-200	1	-	1	1	-	1

Cannabinoids (THC)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	113	112	1	113	111	2
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	1	1
BMC QuickTox Drug Screen	22	22	-	22	22	-
Carolina Chemistries BioLis 24i	1	1	-	1	1	-
Dade Behring EMIT II Plus	6	6	-	6	6	-
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	6	6	-	6	5	1
Instant Technologies i Screen	10	10	-	10	10	-
Instant Technologies iCup	8	8	-	8	8	-
Integrated E-Z Split Key Cup / II	3	3	-	3	3	-
Lin-Zhi International	11	11	-	11	11	-
MEDTOX Diagnostics	6	6	-	6	6	-
Microgenics DRI	6	6	-	6	6	-
Mindray BS-200	1	1	-	1	1	-
Noble Medical Inc.	4	4	-	4	4	-
Redwood Toxicology Reditest	2	2	-	2	2	-
Roche Integra	1	1	-	1	1	-

Cocaine Metabolites

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	113	-	113	113	-	113
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	22	-	22	22	-	22
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	6	-	6	6	-	6
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	2	-	2	2	-	2
InstaCheck Drug Screen	2	-	2	2	-	2
Instant Technologies i Cassette	6	-	6	6	-	6
Instant Technologies i Screen	10	-	10	10	-	10
Instant Technologies iCup	8	-	8	8	-	8
Integrated E-Z Split Key Cup / II	3	-	3	3	-	3
Lin-Zhi International	10	-	10	10	-	10
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	6	-	6	6	-	6
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	4	-	4	4	-	4
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	2	-	2	2	-	2

EDDP

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<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-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	20	20	-	20	20	-
Dade Behring EMIT II Plus	3	3	-	3	3	-
Lin-Zhi International	11	11	-	11	11	-
Microgenics DRI	1	1	-	1	1	-
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-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	38	-	38	38	37	1
Dade Behring EMIT II Plus	2	-	2	2	2	-
Innovacon Multi-CLIN Drug Screen	1	-	1	1	1	-
Instant Technologies iCassette	3	-	3	3	3	-
Instant Technologies iCup	7	-	7	7	6	1
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
Lin-Zhi International	10	-	10	10	10	-
Microgenics DRI	2	-	2	2	2	-
Redwood Toxicology Reditest	2	-	2	2	2	-

Methadone

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	67	-	67	66	3	63
Bio-Rad TOX/See	1	-	1	1	-	1
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	1	-	1	1	-	1
Instant Technologies iCassette	2	-	2	2	-	2
Instant Technologies iScreen	10	-	10	10	-	10
Instant Technologies iCup	8	-	8	8	3	5
Integrated E-Z Split Key Cup / II	1	-	1	-	-	-
Lin-Zhi International	8	-	8	8	-	8
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics DRI	6	-	6	6	-	6
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	2	-	2	2	-	2

Methamphetamines

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	73	-	73	73	68	5
Alfa Scientific Instant-View	1	-	1	1	1	-
Bayer ADVIA 1200	1	-	1	1	-	1
BMC QuickTox Drug Screen	22	-	22	22	22	-
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	3	-	3	3	3	-
Instant Technologies i Screen	10	-	10	10	10	-
Instant Technologies iCup	8	-	8	8	6	2
Integrated E-Z Split Key Cup / II	2	-	2	1	1	-
Lin-Zhi International	1	-	1	1	1	-
MEDTOX Diagnostics	4	-	4	4	4	-
Noble Medical Inc.	2	-	2	2	2	-
Redwood Toxicology Reditest	2	-	2	2	2	-

Methaqualone

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	1	-	1	-	1
Dade Behring EMIT II Plus	1	1	-	1	-	1

Morphine

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	3	-	3	3	1	2
Instant Technologies iCup	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
Lin-Zhi International	1	-	1	1	-	1

Opiates

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	112	-	112	113	108	5
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	22	-	22	22	22	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Dade Behring EMIT II Plus	6	-	6	6	6	-
Innovacon Multi-CLIN Drug Screen	1	-	1	1	1	-
Innovacon Multi-Drug One Step	2	-	2	2	2	-
InstaCheck Drug Screen	2	-	2	2	2	-
Instant Technologies i Cassette	6	-	6	6	6	-
Instant Technologies i Screen	10	-	10	10	10	-
Instant Technologies iCup	7	-	7	7	3	4
Integrated E-Z Split Key Cup / II	3	-	3	3	3	-
Lin-Zhi International	11	-	11	11	11	-
MEDTOX Diagnostics	6	-	6	6	6	-
Microgenics DRI	6	-	6	6	6	-
Mindray BS-200	1	-	1	1	1	-
Noble Medical Inc.	4	-	4	4	4	-
Redwood Toxicology Reditest	2	-	2	2	2	-
Roche Integra	2	-	2	2	2	-

Oxycodone

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	60	60	-	59	2	57
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	-	1	-	1
Instant Technologies i Cassette	4	4	-	4	-	4
Instant Technologies iCup	8	8	-	8	1	7
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	1	1	-	1	-	1
Noble Medical Inc.	2	2	-	2	-	2
Redwood Toxicology Reditest	2	2	-	2	-	2
Roche Integra	2	2	-	2	-	2

Phencyclidine (PCP)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	66	-	66	65	-	65
Bayer ADVIA 1200	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BioSite Diagnostics Triage	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
InstaCheck Drug Screen	2	-	2	2	-	2
Instant Technologies i Cassette	6	-	6	6	-	6
Instant Technologies i Screen	10	-	10	10	-	10
Instant Technologies iCup	2	-	2	2	-	2
Integrated E-Z Split Key Cup / II	3	-	3	3	-	3
Lin-Zhi International	3	-	3	3	-	3
MEDTOX Diagnostics	6	-	6	5	-	5
Microgenics DRI	2	-	2	2	-	2
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	1	-	1	1	-	1

Propoxyphene

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	23	-	23	23	22	1
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	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
Lin-Zhi International	2	-	2	2	2	-
MEDTOX Diagnostics	4	-	4	4	4	-
Microgenics DRI	2	-	2	2	2	-
Mindray BS-200	1	-	1	1	1	-

Tricyclic Antidepressants

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	29	-	29	29	-	29
Bio-Rad TOX/See	1	-	1	1	-	1
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	9	-	9	9	-	9
Instant Technologies iCup	2	-	2	2	-	2
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4

Ammonia (μmol/L)

<u>Method</u>	Specimen AMM-3						Specimen AMM-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	9	151.8	8.4	5.5	154	141 - 162	9	49.0	6.6	13.5	48	39 - 59
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	156.4	4.2	2.7	156	146 - 167	5	51.4	5.7	11.1	48	41 - 62

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-6						Specimen WBG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	387	305.0	49.4	16.2	299	244 - 367	398	60.4	17.4	28.8	57	48 - 73
All Arkray Methods	14	552.9	45.9	8.3	565	442 - 664	13	64.5	6.4	9.9	66	51 - 78
All Hemocue Methods	39	306.9	8.2	2.7	306	245 - 369	39	91.2	6.5	7.1	90	72 - 110
Abbott FreeStyle Lite	16	289.6	14.8	5.1	291	231 - 348	15	53.6	3.1	5.8	53	41 - 66
Bayer Contour	90	257.1	41.1	16.0	247	205 - 309	90	47.3	4.5	9.4	46	35 - 60
HemoCue 201	38	307.0	8.3	2.7	306	245 - 369	38	91.4	6.4	7.1	91	73 - 110
Home Diagnostics TrueTrack /												
TrueBalance	13	600.0	0.0	0.0	600	480 - 720	24	169.8	10.2	6.0	171	135 - 204
Lifescan One Touch Ultra/2/Mini	42	349.6	19.5	5.6	349	279 - 420	41	62.6	3.1	5.0	63	50 - 76
LifeScan SureStep Flex	19	405.1	21.7	5.4	399	324 - 487	19	68.3	4.1	6.0	68	54 - 82
Medisense Precis. Xtra/Optium	10	372.3	14.5	3.9	378	297 - 447	10	65.0	2.8	4.3	65	52 - 78
Medisense Precision XceedPro	11	356.6	16.4	4.6	360	285 - 428	11	63.9	8.9	13.9	61	51 - 77
NOVA Biomedical StatStrip	14	282.9	14.1	5.0	282	226 - 340	14	52.4	3.7	7.0	53	40 - 65
Other Waived Method	10	265.0	58.2	22.0	260	212 - 318	10	59.5	11.7	19.6	64	47 - 72
PSS Quintet Glucose Monitoring												
System	15	343.9	18.7	5.5	345	275 - 413	15	58.9	4.8	8.1	58	46 - 71
Roche Accu-Chek												
Advantage/Comp/GTS	41	289.3	12.1	4.2	292	231 - 348	39	48.5	5.0	10.4	49	36 - 61
Roche Accu-Chek Aviva	32	290.8	13.5	4.6	292	232 - 349	32	58.6	3.4	5.8	58	46 - 71
Roche Accu-Chek Inform	26	302.5	12.5	4.1	303	241 - 363	25	53.3	7.8	14.7	50	41 - 66

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-8						Specimen WBG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	127.0	20.3	16.0	136	101 - 153	26	228.4	36.0	15.7	247	182 - 275
Bayer Contour	5	-	-	-	92	101 - 153	5	-	-	-	166	182 - 275
Home Diagnostics TrueTrack / TrueBalance	2	-	-	-	330	Not graded	2	-	-	-	533	Not graded
Lifescan One Touch Ultra/2/Mini	13	139.9	4.2	3.0	139	111 - 168	13	253.8	6.6	2.6	255	203 - 305
Roche Accu-Chek Aviva	3	-	-	-	122	101 - 153	3	-	-	-	217	182 - 275
Specimen WBG-10												
All Method	26	347.4	49.5	14.2	368	277 - 417						
Bayer Contour	5	-	-	-	267	277 - 417						
Lifescan One Touch Ultra/2/Mini	13	382.5	14.6	3.8	379	305 - 459						
Roche Accu-Chek Aviva	3	-	-	-	337	277 - 417						

Fructosamine (mmol/L)

<u>Method</u>	Specimen FR-3						Specimen FR-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.264	0.150	56.8	0.22	0.00 - 0.72	5	1.432	0.135	9.4	1.4	0.98 - 1.89

Fructosamine (μmol/L)

<u>Method</u>	Specimen FR-3						Specimen FR-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	6	81.3	14.3	17.6	77	36 - 127	5	846.8	237.2	28.0	764	592 - 1101

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	1157.0	368.9	31.9	1103	809 - 1505	5	2215.6	514.9	23.2	2260	1550 - 2881

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