

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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

Chemistry
MLE – M3

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2011 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	Homocysteine	± 3 SD
Acetone	80% Consensus	Insulin	± 3 SD
Albumin	$\pm 10\%$	Iron	$\pm 20\%$
Alcohol	$\pm 25\%$	LDL Cholesterol	± 3 SD
Alpha-fetoprotein	± 3 SD	Lactate Dehydrogenase	$\pm 20\%$
Alkaline Phosphatase	$\pm 30\%$	LDL Cholesterol	± 3 SD
ALT (SGPT)	$\pm 20\%$	Lipase	± 3 SD
Amikacin	± 3 SD	LH	± 3 SD
Ammonia	± 3 SD	Lithium	± 0.3 mmol/L or 20% *
Amylase	$\pm 30\%$	Magnesium	$\pm 25\%$
Anti-Microsomal Antibody	± 3 SD	Methemoglobin	± 3 SD
Anti-Thyroglobulin Antibody	± 3 SD	Myoglobin (Qualitative)	80% Consensus
Apolipoprotein A1	± 3 SD	Myoglobin (Quantitative)	± 3 SD
Apolipoprotein B	± 3 SD	Oxyhemoglobin	± 3 SD
AST (SGOT)	$\pm 20\%$	O ₂ Saturation	± 3 SD
B-Type Natriuretic Peptide (BNP)	± 3 SD	Parathyroid Hormone	± 3 SD
Beta-2 Microglobulin	± 3 SD	Phenobarbital	$\pm 20\%$
Bilirubin, Direct	± 3 SD	Phenytoin	$\pm 25\%$
Bilirubin, Total	± 0.4 mg/dL or 20% *	Phosphorus	± 3 SD
Bilirubin, Neonatal (Total)	± 0.4 mg/dL or 20% *	Potassium	± 0.5 mmol/L
C-Peptide	± 3 SD	Progesterone	± 3 SD
CA 125	± 3 SD	Prolactin	± 3 SD
CA 15-3	± 3 SD	Protein, Total	$\pm 10\%$
CA 19-9	± 3 SD	PSA	± 3 SD
CA 27/29	± 3 SD	PSA, Free	± 3 SD
Calcium	± 1.0 mg/dL	pCO ₂	± 5 mmHg or 8% *
Calcium, Ionized	± 3 SD	pH	± 0.04
Carbamazepine	$\pm 25\%$	pO ₂	± 3 SD
Carboxyhemoglobin	± 3 SD	Salicylate	± 3 SD
CEA	± 3 SD	Sodium	± 4.0 mmol/L
Chloride	$\pm 5\%$	T Uptake (Uptake Units)	± 3 SD
Cholesterol	$\pm 10\%$	T ₃ Uptake (% Uptake)	± 3 SD
CK-MB (Qualitative)	80% Consensus	T ₃ , Free	± 3 SD
CK-MB (Quantitative)	± 3 SD	T ₄ , Free	± 3 SD
CO ₂	± 3 SD	Testosterone	± 3 SD
Cortisol	$\pm 25\%$	Theophylline	$\pm 25\%$
Creatine Kinase	$\pm 30\%$	Thyroglobulin	± 3 SD
Creatinine	± 0.3 mg/dL or 15% *	Thyroxine, Total T ₄	± 1.0 mcg/dL or 20% *
D-Dimer	± 3 SD	TIBC	± 3 SD
Digoxin	± 0.2 mg/dL or 20% *	Transferrin	± 3 SD
Estradiol	± 3 SD	Triglyceride	$\pm 25\%$
Ferritin	± 3 SD	Triiodothyronine, Total T ₃	± 3 SD
Folate	± 3 SD	Troponin I (Qualitative)	80% Consensus
Fructosamine	± 3 SD	Troponin I (Quantitative)	± 3 SD
FSH	± 3 SD	Troponin T (Qualitative)	80% Consensus
Gentamicin	$\pm 25\%$	TSH	± 3 SD
GGT	± 3 SD	UIBC	± 3 SD
Glucose, Serum	± 6 mg/dL or 10% *	Urea Nitrogen	± 2.0 mg/dL or 9% *
Glucose, Whole Blood	± 3 SD	Uric Acid	$\pm 17\%$
Glycohemoglobin	± 3 SD	Urine Drug Screen	80% Consensus
HDL Cholesterol	$\pm 30\%$	Valproic Acid	$\pm 25\%$
HCG, Serum—Qualitative	80% Consensus	Vancomycin	± 3 SD
HCG, Serum—Quantitative	± 3 SD	Vitamin B ₁₂	± 3 SD
Hematocrit	$\pm 6\%$	Vitamin D	± 3 SD
Hemoglobin	$\pm 7\%$		

*Whichever is greater

Sodium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	77	149.4	1.5	1.0	150	145 - 154	79	118.4	0.9	0.7	118	114 - 123
All i-STAT Instruments	76	149.4	1.5	1.0	150	145 - 154	78	118.4	0.9	0.7	118	114 - 123
i-STAT - moderate	19	149.6	1.6	1.1	150	145 - 154	19	118.8	0.9	0.8	119	114 - 123
i-STAT - waived	57	149.4	1.5	1.0	150	145 - 154	59	118.3	0.8	0.7	118	114 - 123

Specimen IST-13							Specimen IST-14					
All Method	62	105.8	0.8	0.7	106	101 - 110	62	133.5	0.9	0.7	134	129 - 138
All i-STAT Instruments	61	105.8	0.8	0.7	106	101 - 110	61	133.5	0.9	0.7	134	129 - 138
i-STAT - moderate	15	106.1	0.6	0.6	106	102 - 111	15	133.9	0.8	0.6	134	129 - 138
i-STAT - waived	46	105.7	0.8	0.7	106	101 - 110	46	133.4	0.9	0.6	134	129 - 138

Specimen IST-15						
All Method	61	165.3	1.4	0.8	165	161 - 170
All i-STAT Instruments	60	165.3	1.4	0.8	165	161 - 170
i-STAT - moderate	15	165.1	1.4	0.8	165	161 - 170
i-STAT - waived	45	165.4	1.4	0.8	165	161 - 170

Potassium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	77	5.31	0.06	1.1	5.3	4.8 - 5.9	77	2.70	0.00	0.0	2.7	2.2 - 3.2
All i-STAT Instruments	76	5.31	0.06	1.1	5.3	4.8 - 5.9	76	2.70	0.00	0.0	2.7	2.2 - 3.2
i-STAT - moderate	18	5.31	0.05	1.0	5.3	4.8 - 5.9	18	2.70	0.00	0.0	2.7	2.2 - 3.2
i-STAT - waived	58	5.32	0.06	1.2	5.3	4.8 - 5.9	58	2.70	0.00	0.0	2.7	2.2 - 3.2

Specimen IST-13							Specimen IST-14					
All Method	62	2.30	0.00	0.0	2.3	1.8 - 2.8	60	3.20	0.00	0.0	3.2	2.7 - 3.7
All i-STAT Instruments	61	2.30	0.00	0.0	2.3	1.8 - 2.8	60	3.20	0.00	0.0	3.2	2.7 - 3.7
i-STAT - moderate	15	2.30	0.00	0.0	2.3	1.8 - 2.8	15	3.20	0.00	0.0	3.2	2.7 - 3.7
i-STAT - waived	46	2.30	0.00	0.0	2.3	1.8 - 2.8	45	3.20	0.00	0.0	3.2	2.7 - 3.7

			Specimen IST-15			
All Method	62	6.90	0.08	1.1	6.9	6.4 - 7.4
All i-STAT Instruments	61	6.90	0.08	1.2	6.9	6.4 - 7.4
i-STAT - moderate	15	6.89	0.05	0.7	6.9	6.3 - 7.4
i-STAT - waived	46	6.90	0.09	1.3	6.9	6.4 - 7.5

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	74	117.4	2.6	2.2	117	111 - 124	75	84.3	1.0	1.2	84	80 - 89
All i-STAT Instruments	73	117.3	2.4	2.1	117	111 - 124	74	84.3	1.0	1.2	84	80 - 89
i-STAT - moderate	16	117.2	3.1	2.6	117	111 - 124	16	84.8	0.8	0.9	85	80 - 89
i-STAT - waived	57	117.3	2.3	1.9	117	111 - 124	58	84.2	1.1	1.3	84	79 - 89

Specimen IST-13						Specimen IST-14						
All Method	59	79.4	1.0	1.3	79	75 - 84	57	92.4	1.2	1.3	92	87 - 98
All i-STAT Instruments	58	79.4	1.0	1.2	79	75 - 84	56	92.4	1.2	1.3	92	87 - 98
i-STAT - moderate	12	79.5	1.0	1.3	80	75 - 84	12	92.8	1.1	1.2	93	88 - 98
i-STAT - waived	46	79.4	1.0	1.2	79	75 - 84	44	92.3	1.2	1.3	92	87 - 97

			Specimen IST-15			
All Method	56	121.1	2.2	1.8	121	115 - 128
All i-STAT Instruments	56	121.1	2.2	1.8	121	115 - 128
i-STAT - moderate	12	121.4	2.0	1.7	121	115 - 128
i-STAT - waived	44	121.0	2.2	1.8	121	114 - 128

CO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	59	28.8	0.8	2.8	29	26 - 32	59	18.4	0.5	2.9	18	16 - 21
All i-STAT Instruments	59	28.8	0.8	2.8	29	26 - 32	58	18.4	0.5	2.9	18	16 - 21
i-STAT - waived	51	28.9	0.8	2.7	29	26 - 32	50	18.5	0.5	2.7	18	16 - 20

Specimen IST-13							Specimen IST-14					
All Method	37	13.9	1.1	7.6	14	10 - 18	44	21.3	0.6	2.7	21	19 - 23
All i-STAT Instruments	36	13.9	1.1	7.7	14	10 - 18	43	21.3	0.6	2.7	21	19 - 23
i-STAT - waived	34	13.9	1.1	8.0	14	10 - 18	39	21.3	0.6	2.6	21	19 - 23

Specimen IST-15						
All Method	44	47.6	1.6	3.3	48	42 - 53
All i-STAT Instruments	43	47.6	1.5	3.2	48	42 - 53
i-STAT - waived	39	47.5	1.6	3.3	48	42 - 53

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	76	10.2	0.5	4.8	10	8 - 13	76	65.2	1.6	2.4	65	59 - 72
All i-STAT Instruments	75	10.2	0.5	4.7	10	8 - 13	75	65.1	1.6	2.4	65	59 - 71
i-STAT - moderate	16	10.2	0.4	4.0	10	8 - 13	16	65.7	1.5	2.3	66	59 - 72
i-STAT - waived	59	10.2	0.5	4.9	10	8 - 13	59	65.0	1.5	2.4	65	59 - 71
	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	59	135.8	3.2	2.3	136	123 - 148	60	31.3	0.9	3.0	31	28 - 35
All i-STAT Instruments	58	135.8	3.2	2.4	136	123 - 148	59	31.3	0.9	2.8	31	28 - 35
i-STAT - moderate	11	135.8	3.7	2.7	136	123 - 149	12	31.3	1.1	3.4	31	28 - 35
i-STAT - waived	47	135.7	3.1	2.3	136	123 - 148	47	31.3	0.8	2.6	31	28 - 35
	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	60	8.1	0.4	4.7	8	6 - 11						
All i-STAT Instruments	59	8.1	0.4	4.5	8	6 - 11						
i-STAT - moderate	12	7.9	0.5	6.5	8	5 - 10						
i-STAT - waived	47	8.1	0.3	3.8	8	6 - 11						

Glucose (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	76	60.9	2.5	4.1	60	54 - 67	76	322.4	3.1	1.0	322	290 - 355
All i-STAT Instruments	75	60.8	2.4	4.0	60	54 - 67	75	322.4	3.1	1.0	322	290 - 355
i-STAT - moderate	17	62.5	3.0	4.8	63	56 - 69	17	321.8	4.0	1.2	322	289 - 354
i-STAT - waived	58	60.3	2.0	3.4	60	54 - 67	58	322.5	2.9	0.9	322	290 - 355
	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	55	698.1	5.3	0.8	700	628 - 768	60	204.0	3.9	1.9	203	183 - 225
All i-STAT Instruments	54	698.4	4.9	0.7	700	628 - 769	59	203.9	3.9	1.9	203	183 - 225
i-STAT - moderate	11	699.5	1.2	0.2	700	629 - 770	13	206.8	4.5	2.2	207	186 - 228
i-STAT - waived	40	699.4	2.3	0.3	700	629 - 770	46	203.0	3.3	1.6	202	182 - 224
	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	60	25.8	1.5	5.7	25	19 - 32						
All i-STAT Instruments	59	25.8	1.5	5.7	25	19 - 32						
i-STAT - moderate	13	27.2	1.6	6.0	28	21 - 34						
i-STAT - waived	45	25.3	1.0	4.1	25	19 - 32						

Hematocrit (percent)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	47.1	1.0	2.1	47	44 - 50	19	17.0	0.6	3.4	17	15 - 19
All i-STAT Instruments	18	47.1	1.0	2.0	47	44 - 50	18	17.0	0.6	3.5	17	15 - 19
i-STAT - waived	10	47.2	1.1	2.4	47	44 - 51	10	17.1	0.6	3.3	17	16 - 19
	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	11.9	0.4	3.7	12	11 - 13	16	30.8	0.7	2.4	31	28 - 33
All i-STAT Instruments	15	11.9	0.5	3.8	12	11 - 13	15	30.9	0.7	2.4	31	29 - 33
i-STAT - waived	8	-	-	-	12	11 - 13	8	-	-	-	31	29 - 33
	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	58.5	0.7	1.2	59	54 - 63						
All i-STAT Instruments	15	58.5	0.7	1.3	59	55 - 63						
i-STAT - waived	8	-	-	-	59	55 - 63						

Hemoglobin (g/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	15.99	0.34	2.1	16.0	14.8 - 17.2	19	5.78	0.20	3.5	5.8	5.3 - 6.2
All i-STAT Instruments	18	16.02	0.33	2.1	16.0	14.8 - 17.2	18	5.78	0.21	3.6	5.8	5.3 - 6.2
i-STAT - waived	10	16.05	0.39	2.4	16.0	14.9 - 17.2	10	5.82	0.19	3.3	5.8	5.4 - 6.3
	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	4.07	0.16	4.0	4.1	3.7 - 4.4	16	10.46	0.26	2.5	10.5	9.7 - 11.2
All i-STAT Instruments	15	4.07	0.17	4.1	4.1	3.7 - 4.4	15	10.48	0.26	2.5	10.5	9.7 - 11.3
i-STAT - waived	8	-	-	-	4.1	3.7 - 4.4	8	-	-	-	10.5	9.7 - 11.3
	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	19.90	0.27	1.3	20.1	18.5 - 21.3						
All i-STAT Instruments	15	19.91	0.27	1.4	20.1	18.5 - 21.4						
i-STAT - waived	8	-	-	-	20.1	18.5 - 21.4						

Creatinine (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	89	0.82	0.05	5.6	0.8	0.5 - 1.2	90	3.89	0.19	4.8	3.9	3.3 - 4.5
All i-STAT Instruments	88	0.83	0.05	5.6	0.8	0.5 - 1.2	89	3.89	0.19	4.8	3.9	3.3 - 4.5
i-STAT - moderate	13	0.83	0.05	5.8	0.8	0.5 - 1.2	14	3.80	0.18	4.6	3.9	3.2 - 4.4
i-STAT - waived	75	0.82	0.05	5.6	0.8	0.5 - 1.2	75	3.90	0.19	4.8	3.9	3.3 - 4.5
	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	58	0.56	0.09	15.2	0.6	0.2 - 0.9	57	2.78	0.13	4.7	2.8	2.3 - 3.3
All i-STAT Instruments	57	0.56	0.08	14.8	0.6	0.2 - 0.9	56	2.79	0.13	4.8	2.8	2.3 - 3.3
i-STAT - moderate	10	0.57	0.07	11.8	0.6	0.2 - 0.9	10	2.72	0.15	5.7	2.7	2.3 - 3.2
i-STAT - waived	47	0.56	0.09	15.4	0.6	0.2 - 0.9	46	2.80	0.12	4.5	2.8	2.3 - 3.3
	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	59	0.52	0.05	10.0	0.5	0.2 - 0.9						
All i-STAT Instruments	58	0.52	0.05	10.0	0.5	0.2 - 0.9						
i-STAT - moderate	10	0.56	0.05	9.2	0.6	0.2 - 0.9						
i-STAT - waived	48	0.51	0.05	9.5	0.5	0.2 - 0.9						

Ionized Calcium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	57	0.784	0.016	2.0	0.79	0.73 - 0.84	58	1.378	0.018	1.3	1.38	1.32 - 1.44
All i-STAT Instruments	57	0.784	0.016	2.0	0.79	0.73 - 0.84	58	1.378	0.018	1.3	1.38	1.32 - 1.44
i-STAT - waived	50	0.785	0.016	2.1	0.79	0.73 - 0.84	50	1.377	0.017	1.2	1.38	1.32 - 1.43
	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	44	2.247	0.029	1.3	2.25	2.15 - 2.34	43	1.196	0.014	1.2	1.20	1.15 - 1.24
All i-STAT Instruments	44	2.247	0.029	1.3	2.25	2.15 - 2.34	43	1.196	0.014	1.2	1.20	1.15 - 1.24
i-STAT - waived	40	2.245	0.028	1.2	2.24	2.16 - 2.33	39	1.195	0.014	1.2	1.19	1.15 - 1.24
	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	44	0.497	0.016	3.3	0.50	0.44 - 0.55						
All i-STAT Instruments	44	0.497	0.016	3.3	0.50	0.44 - 0.55						
i-STAT - waived	40	0.498	0.016	3.2	0.50	0.44 - 0.55						

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	421	2.23	0.28	12.7	2.3	2.0 - 2.5	418	2.18	0.28	12.7	2.3	1.9 - 2.4
All Bromocresol Green Reagents	276	2.41	0.12	4.8	2.4	2.1 - 2.7	275	2.36	0.12	5.2	2.4	2.1 - 2.6
All Bromocresol Purple Reagents	139	1.87	0.13	7.1	1.8	1.6 - 2.1	138	1.83	0.12	6.4	1.8	1.6 - 2.1
Abaxis Piccolo												
Abaxis Piccolo - waived	20	2.05	0.08	3.7	2.1	1.8 - 2.3	19	1.97	0.09	4.4	2.0	1.7 - 2.2
Abaxis Piccolo	19	2.04	0.10	4.7	2.1	1.8 - 2.3	19	1.96	0.08	4.2	2.0	1.7 - 2.2
All Chemistry Instruments	39	2.04	0.08	4.2	2.1	1.8 - 2.3	38	1.97	0.08	4.3	2.0	1.7 - 2.2
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	70	2.47	0.08	3.1	2.5	2.2 - 2.8	69	2.42	0.07	2.9	2.4	2.1 - 2.7
All Chemistry Instruments	71	2.47	0.08	3.1	2.5	2.2 - 2.8	70	2.43	0.07	2.9	2.4	2.1 - 2.7
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	1.89	0.06	3.2	1.9	1.6 - 2.1	17	1.85	0.06	3.4	1.8	1.6 - 2.1
All Chemistry Instruments	25	1.87	0.07	3.9	1.9	1.6 - 2.1	25	1.84	0.07	3.9	1.8	1.6 - 2.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	2.42	0.09	3.7	2.4	2.1 - 2.7	19	2.35	0.08	3.6	2.3	2.1 - 2.6
Olympus												
Olympus AU	21	2.39	0.05	2.0	2.4	2.1 - 2.7	21	2.31	0.06	2.5	2.3	2.0 - 2.6
Roche Integra												
Roche Integra	42	2.45	0.07	2.7	2.4	2.2 - 2.7	43	2.40	0.07	2.8	2.4	2.1 - 2.7
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	1.79	0.05	3.0	1.8	1.6 - 2.0	61	1.76	0.06	3.7	1.8	1.5 - 2.0
All Chemistry Instruments	61	1.79	0.05	3.0	1.8	1.6 - 2.0	62	1.76	0.06	3.7	1.8	1.5 - 2.0
Vital Diagnostics												
Vital Diagnostics ATAC 8000	15	2.40	0.09	3.9	2.4	2.1 - 2.7	15	2.36	0.12	5.0	2.3	2.1 - 2.6
Vital Diagnostics Envoy 500	21	2.42	0.08	3.4	2.4	2.1 - 2.7	21	2.36	0.05	2.2	2.4	2.1 - 2.6
All Chemistry Instruments	36	2.41	0.09	3.6	2.4	2.1 - 2.7	35	2.35	0.06	2.6	2.3	2.1 - 2.6
VITROS												
VITROS 250,350,500,700,750,950	43	2.23	0.07	2.9	2.2	2.0 - 2.5	42	2.18	0.07	3.1	2.2	1.9 - 2.4
All Chemistry Instruments	51	2.24	0.07	3.1	2.2	2.0 - 2.5	50	2.18	0.07	3.1	2.2	1.9 - 2.5

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	408	2.55	0.31	12.3	2.7	2.2 - 2.9	408	2.61	0.33	12.5	2.8	2.3 - 2.9
All Bromocresol Green Reagents	277	2.75	0.12	4.4	2.8	2.4 - 3.1	275	2.82	0.11	4.0	2.8	2.5 - 3.1
All Bromocresol Purple Reagents	125	2.12	0.10	4.6	2.1	1.9 - 2.4	124	2.17	0.11	5.2	2.1	1.9 - 2.4
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	2.3	2.0 - 2.5	8	-	-	-	2.4	2.0 - 2.6
Abaxis Piccolo	18	2.23	0.10	4.6	2.3	2.0 - 2.5	18	2.31	0.10	4.4	2.3	2.0 - 2.6
All Chemistry Instruments	26	2.23	0.10	4.6	2.3	2.0 - 2.5	26	2.31	0.11	4.6	2.3	2.0 - 2.6
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	69	2.82	0.09	3.0	2.8	2.5 - 3.1	71	2.88	0.10	3.3	2.9	2.5 - 3.2
All Chemistry Instruments	70	2.82	0.09	3.0	2.8	2.5 - 3.1	72	2.88	0.10	3.3	2.9	2.5 - 3.2
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	2.17	0.06	2.7	2.2	1.9 - 2.4	17	2.22	0.06	2.5	2.2	2.0 - 2.5
All Chemistry Instruments	25	2.15	0.08	3.6	2.2	1.9 - 2.4	25	2.20	0.08	3.7	2.2	1.9 - 2.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	2.69	0.09	3.3	2.7	2.4 - 3.0	19	2.75	0.10	3.7	2.8	2.4 - 3.1
Olympus												
Olympus AU	21	2.70	0.06	2.2	2.7	2.4 - 3.0	21	2.79	0.06	2.2	2.8	2.5 - 3.1
Roche Integra												
Roche Integra	41	2.80	0.06	2.0	2.8	2.5 - 3.1	42	2.86	0.06	2.2	2.9	2.5 - 3.2
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	2.07	0.06	2.9	2.1	1.8 - 2.3	60	2.10	0.06	2.8	2.1	1.8 - 2.4
All Chemistry Instruments	62	2.07	0.06	2.9	2.1	1.8 - 2.3	61	2.10	0.06	2.7	2.1	1.8 - 2.4
Vital Diagnostics												
Vital Diagnostics ATAC 8000	15	2.77	0.09	3.2	2.8	2.4 - 3.1	15	2.83	0.12	4.3	2.9	2.5 - 3.2
Vital Diagnostics Envoy 500	20	2.75	0.08	2.8	2.8	2.4 - 3.1	21	2.79	0.08	2.8	2.8	2.5 - 3.1
All Chemistry Instruments	35	2.76	0.08	3.0	2.8	2.4 - 3.1	35	2.81	0.08	3.0	2.8	2.5 - 3.1
VITROS												
VITROS 250,350,500,700,750,950	43	2.60	0.08	3.1	2.6	2.3 - 2.9	43	2.69	0.08	2.9	2.7	2.4 - 3.0
All Chemistry Instruments	51	2.61	0.08	3.2	2.6	2.3 - 2.9	50	2.70	0.08	2.9	2.7	2.4 - 3.0

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	408	3.76	0.47	12.5	4.0	3.3 - 4.2
All Bromocresol Green Reagents	271	4.05	0.13	3.3	4.1	3.6 - 4.5
All Bromocresol Purple Reagents	126	3.10	0.11	3.4	3.1	2.7 - 3.5
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	3.2	2.8 - 3.5
Abaxis Piccolo	18	3.14	0.10	3.1	3.2	2.8 - 3.5
All Chemistry Instruments	26	3.16	0.10	3.3	3.2	2.8 - 3.5
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	70	4.05	0.11	2.6	4.1	3.6 - 4.5
All Chemistry Instruments	71	4.05	0.11	2.6	4.1	3.6 - 4.5
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	17	3.18	0.06	2.0	3.2	2.8 - 3.6
All Chemistry Instruments	25	3.16	0.11	3.4	3.2	2.8 - 3.5
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	3.84	0.13	3.3	3.8	3.4 - 4.3
Olympus						
Olympus AU	21	4.02	0.07	1.9	4.0	3.6 - 4.5
Roche Integra						
Roche Integra	42	4.08	0.08	2.1	4.1	3.6 - 4.5
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	60	3.08	0.07	2.4	3.1	2.7 - 3.4
All Chemistry Instruments	60	3.07	0.07	2.2	3.1	2.7 - 3.4
Vital Diagnostics						
Vital Diagnostics ATAC 8000	15	4.01	0.12	3.1	4.0	3.6 - 4.5
Vital Diagnostics Envoy 500	21	4.00	0.10	2.4	4.0	3.5 - 4.4
All Chemistry Instruments	36	4.00	0.11	2.7	4.0	3.6 - 4.5
VITROS						
VITROS 250,350,500,700,750,950	43	4.15	0.13	3.2	4.1	3.7 - 4.6
All Chemistry Instruments	51	4.16	0.13	3.2	4.1	3.7 - 4.6

Bilirubin, Direct (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-11					<u>Labs</u>	Specimen CH-12				
		<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	281	2.15	0.53	24.5	2.0	0.5 - 3.8	280	1.42	0.37	26.0	1.3	0.3 - 2.6
All Roche Integra/c111/c501												
Reagents	41	1.81	0.12	6.4	1.8	1.4 - 2.2	41	1.18	0.08	6.8	1.2	0.9 - 1.5
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	46	2.75	0.16	5.7	2.8	2.2 - 3.3	46	1.85	0.13	6.9	1.9	1.4 - 2.3
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	15	1.81	0.08	4.6	1.8	1.5 - 2.1	15	1.22	0.07	5.5	1.2	1.0 - 1.5
All Chemistry Instruments	21	1.78	0.12	6.6	1.8	1.4 - 2.2	21	1.19	0.09	7.7	1.2	0.9 - 1.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	2.54	0.07	2.9	2.5	2.3 - 2.8	15	1.69	0.09	5.4	1.7	1.4 - 2.0
Olympus												
Olympus AU	20	2.63	0.17	6.4	2.6	2.1 - 3.2	19	1.74	0.08	4.4	1.7	1.5 - 2.0
Roche Integra												
Roche Integra	35	1.79	0.10	5.8	1.8	1.4 - 2.2	35	1.17	0.08	7.0	1.2	0.9 - 1.5
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	48	1.76	0.13	7.3	1.8	1.3 - 2.2	48	1.14	0.10	8.8	1.2	0.8 - 1.5
All Chemistry Instruments	49	1.76	0.13	7.3	1.8	1.3 - 2.2	49	1.13	0.10	8.9	1.1	0.8 - 1.5
Vital Diagnostics												
Vital Diagnostics ATAC 8000	10	3.09	0.22	7.2	3.1	2.4 - 3.8	10	1.94	0.19	9.8	2.0	1.3 - 2.6
Vital Diagnostics Envoy 500	12	2.76	0.22	8.1	2.8	2.0 - 3.5	12	1.86	0.17	9.0	1.8	1.3 - 2.4
All Chemistry Instruments	22	2.91	0.28	9.5	3.0	2.0 - 3.8	22	1.90	0.18	9.4	1.9	1.3 - 2.5
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	28	1.70	0.41	24.0	1.7	0.4 - 3.0	28	1.06	0.35	32.6	1.0	0.0 - 2.1
All Chemistry Instruments	34	1.68	0.38	22.9	1.6	0.5 - 2.9	34	1.04	0.32	30.6	1.0	0.0 - 2.1

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	420	4.43	0.45	10.2	4.4	3.5 - 5.4	419	3.08	0.33	10.9	3.0	2.4 - 3.7
All Roche T. bili Special Reagents	39	3.91	0.19	4.8	3.9	3.1 - 4.7	39	2.70	0.14	5.1	2.7	2.1 - 3.3
Abaxis Piccolo												
Abaxis Piccolo - waived	20	4.00	0.14	3.4	4.0	3.1 - 4.8	20	2.84	0.11	4.0	2.8	2.2 - 3.5
Abaxis Piccolo	19	4.00	0.15	3.7	4.0	3.2 - 4.8	18	2.81	0.13	4.8	2.8	2.2 - 3.4
All Chemistry Instruments	39	4.00	0.14	3.5	4.0	3.1 - 4.8	38	2.82	0.12	4.4	2.8	2.2 - 3.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	67	5.10	0.24	4.7	5.1	4.0 - 6.2	66	3.55	0.18	5.0	3.6	2.8 - 4.3
All Chemistry Instruments	68	5.10	0.24	4.7	5.1	4.0 - 6.2	67	3.55	0.18	5.0	3.6	2.8 - 4.3
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	18	4.64	0.12	2.6	4.6	3.7 - 5.6	18	3.31	0.14	4.3	3.3	2.6 - 4.0
All Chemistry Instruments	25	4.60	0.15	3.2	4.6	3.6 - 5.6	26	3.30	0.21	6.2	3.3	2.6 - 4.0
Carolina Liquid Chemistries												
Beckman Synchron	10	4.48	0.20	4.4	4.5	3.5 - 5.4	10	3.14	0.12	3.7	3.2	2.5 - 3.8
All Chemistry Instruments	11	4.45	0.22	5.0	4.4	3.5 - 5.4	11	3.11	0.15	4.9	3.2	2.4 - 3.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	4.72	0.24	5.2	4.7	3.7 - 5.7	19	3.24	0.19	5.8	3.2	2.5 - 3.9
Olympus												
Olympus AU	20	4.64	0.12	2.6	4.7	3.7 - 5.6	20	3.33	0.11	3.4	3.3	2.6 - 4.0
Roche Integra												
Roche Integra	12	4.08	0.24	6.0	4.0	3.2 - 4.9	12	2.81	0.17	6.0	2.8	2.2 - 3.4
All Chemistry Instruments	13	4.08	0.23	5.7	4.0	3.2 - 5.0	13	2.82	0.16	5.8	2.8	2.2 - 3.4
Roche Integra-T. bili Special												
Roche Integra	31	3.89	0.18	4.6	3.9	3.1 - 4.7	31	2.70	0.13	4.9	2.7	2.1 - 3.3
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	4.30	0.16	3.6	4.3	3.4 - 5.2	60	2.96	0.13	4.5	3.0	2.3 - 3.6
All Chemistry Instruments	60	4.30	0.15	3.6	4.3	3.4 - 5.2	61	2.96	0.13	4.5	3.0	2.3 - 3.6
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	4.48	0.20	4.6	4.5	3.5 - 5.4	16	3.14	0.16	5.1	3.2	2.5 - 3.8
Vital Diagnostics Envoy 500	21	4.01	0.16	4.0	4.0	3.2 - 4.9	21	2.73	0.15	5.6	2.8	2.1 - 3.3
All Chemistry Instruments	37	4.21	0.29	7.0	4.1	3.3 - 5.1	37	2.91	0.26	8.8	2.8	2.3 - 3.5
VITROS - TBIL												
VITROS 250,350,500,700,750,950	39	4.41	0.26	6.0	4.5	3.5 - 5.3	39	3.00	0.18	6.1	3.0	2.4 - 3.7
All Chemistry Instruments	46	4.41	0.26	5.8	4.5	3.5 - 5.3	45	3.00	0.19	6.2	3.0	2.4 - 3.7

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	407	2.13	0.26	12.4	2.1	1.7 - 2.6	409	3.41	0.38	11.3	3.4	2.7 - 4.1
All Roche T. bili Special Reagents	39	1.81	0.09	5.0	1.8	1.4 - 2.3	39	2.96	0.16	5.4	3.0	2.3 - 3.6
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	1.9	1.5 - 2.4	8	-	-	-	3.0	2.4 - 3.7
Abaxis Piccolo	18	1.97	0.10	5.2	2.0	1.5 - 2.4	18	3.04	0.17	5.5	3.1	2.4 - 3.7
All Chemistry Instruments	25	1.96	0.10	4.9	2.0	1.5 - 2.4	26	3.03	0.16	5.2	3.1	2.4 - 3.7
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	66	2.46	0.12	5.1	2.5	1.9 - 3.0	67	3.93	0.21	5.4	4.0	3.1 - 4.8
All Chemistry Instruments	67	2.46	0.12	5.0	2.5	1.9 - 3.0	68	3.94	0.21	5.4	4.0	3.1 - 4.8
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	18	2.43	0.10	3.9	2.4	1.9 - 3.0	18	3.72	0.12	3.1	3.8	2.9 - 4.5
All Chemistry Instruments	26	2.42	0.15	6.3	2.4	1.9 - 3.0	25	3.68	0.15	4.0	3.7	2.9 - 4.5
Carolina Liquid Chemistries												
Beckman Synchron	10	2.26	0.16	7.0	2.3	1.8 - 2.8	10	3.43	0.13	3.6	3.4	2.7 - 4.2
All Chemistry Instruments	11	2.23	0.18	8.3	2.3	1.7 - 2.7	11	3.40	0.15	4.6	3.4	2.7 - 4.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	2.18	0.12	5.4	2.2	1.7 - 2.7	19	3.54	0.17	4.8	3.6	2.8 - 4.3
Olympus												
Olympus AU	20	2.36	0.07	2.9	2.4	1.8 - 2.9	20	3.62	0.12	3.4	3.7	2.8 - 4.4
Roche Integra												
Roche Integra	12	1.91	0.12	6.1	1.9	1.5 - 2.4	12	3.04	0.22	7.1	3.1	2.4 - 3.7
All Chemistry Instruments	13	1.92	0.11	6.0	1.9	1.5 - 2.4	13	3.05	0.21	6.9	3.1	2.4 - 3.7
Roche Integra-T. bili Special												
Roche Integra	31	1.81	0.08	4.5	1.8	1.4 - 2.3	31	2.95	0.15	5.2	3.0	2.3 - 3.6
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	2.01	0.11	5.4	2.0	1.6 - 2.5	60	3.29	0.14	4.2	3.3	2.6 - 4.0
All Chemistry Instruments	62	2.01	0.11	5.4	2.0	1.6 - 2.5	61	3.29	0.14	4.2	3.3	2.6 - 4.0
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	2.18	0.14	6.5	2.2	1.7 - 2.7	16	3.49	0.18	5.3	3.5	2.7 - 4.2
Vital Diagnostics Envoy 500	21	1.86	0.10	5.5	1.9	1.4 - 2.3	21	3.02	0.14	4.8	3.1	2.4 - 3.7
All Chemistry Instruments	37	2.00	0.20	10.1	2.0	1.5 - 2.4	37	3.22	0.29	8.9	3.1	2.5 - 3.9
VITROS - TBIL												
VITROS 250,350,500,700,750,950	40	2.08	0.15	7.2	2.1	1.6 - 2.5	39	3.32	0.19	5.9	3.3	2.6 - 4.0
All Chemistry Instruments	47	2.07	0.15	7.1	2.1	1.6 - 2.5	46	3.33	0.19	5.8	3.3	2.6 - 4.0

Bilirubin, Total (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	408	3.00	0.38	12.6	3.0	2.3 - 3.6
All Roche T. bili Special Reagents	39	2.50	0.14	5.7	2.5	2.0 - 3.0
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	2.6	2.1 - 3.2
Abaxis Piccolo	18	2.68	0.16	5.8	2.7	2.1 - 3.3
All Chemistry Instruments	26	2.64	0.16	5.9	2.7	2.1 - 3.2
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	67	3.48	0.20	5.8	3.5	2.7 - 4.2
All Chemistry Instruments	68	3.47	0.20	5.8	3.5	2.7 - 4.2
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	18	3.45	0.14	4.1	3.4	2.7 - 4.2
All Chemistry Instruments	26	3.43	0.20	5.8	3.4	2.7 - 4.2
Carolina Liquid Chemistries						
Beckman Synchron	10	3.20	0.20	6.3	3.2	2.5 - 3.9
All Chemistry Instruments	11	3.16	0.22	7.1	3.2	2.5 - 3.8
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	3.01	0.16	5.3	3.0	2.4 - 3.7
Olympus						
Olympus AU	20	3.13	0.10	3.3	3.1	2.5 - 3.8
Roche Integra						
Roche Integra	12	2.59	0.16	6.3	2.6	2.0 - 3.2
All Chemistry Instruments	13	2.61	0.17	6.4	2.6	2.0 - 3.2
Roche Integra-T. bili Special						
Roche Integra	31	2.49	0.14	5.6	2.5	1.9 - 3.0
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	61	2.89	0.14	4.8	2.9	2.3 - 3.5
All Chemistry Instruments	62	2.89	0.14	4.8	2.9	2.3 - 3.5
Vital Diagnostics						
Vital Diagnostics ATAC 8000	16	3.14	0.20	6.3	3.2	2.5 - 3.8
Vital Diagnostics Envoy 500	21	2.58	0.11	4.4	2.6	2.0 - 3.1
All Chemistry Instruments	37	2.82	0.32	11.4	2.7	2.2 - 3.4
VITROS - TBIL						
VITROS 250,350,500,700,750,950	40	2.99	0.19	6.5	3.0	2.3 - 3.6
All Chemistry Instruments	47	2.98	0.19	6.3	3.0	2.3 - 3.6

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	423	8.72	0.27	3.1	8.7	7.7 - 9.8	421	11.50	0.38	3.3	11.5	10.5 - 12.6
All Arsenazo Methods	203	8.69	0.32	3.7	8.7	7.6 - 9.7	199	11.48	0.39	3.4	11.4	10.4 - 12.5
All CPC Methods	192	8.77	0.23	2.6	8.8	7.7 - 9.8	191	11.56	0.35	3.1	11.5	10.5 - 12.6
Abaxis Piccolo												
Abaxis Piccolo - waived	20	9.12	0.19	2.1	9.2	8.1 - 10.2	20	12.03	0.22	1.8	12.1	11.0 - 13.1
Abaxis Piccolo	19	9.13	0.27	2.9	9.1	8.1 - 10.2	19	12.21	0.41	3.4	12.1	11.2 - 13.3
All Chemistry Instruments	39	9.12	0.23	2.5	9.1	8.1 - 10.2	39	12.12	0.34	2.8	12.1	11.1 - 13.2
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	66	8.61	0.22	2.6	8.6	7.6 - 9.7	65	11.30	0.27	2.4	11.3	10.3 - 12.4
All Chemistry Instruments	67	8.61	0.22	2.6	8.6	7.6 - 9.7	66	11.30	0.27	2.4	11.3	10.3 - 12.4
Beckman - electrode												
Beckman Synchron LX/PRO/DxC	17	8.73	0.13	1.5	8.7	7.7 - 9.8	17	11.36	0.12	1.0	11.4	10.3 - 12.4
All Chemistry Instruments	23	8.77	0.15	1.7	8.8	7.7 - 9.8	23	11.35	0.13	1.1	11.4	10.3 - 12.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	8.83	0.35	4.0	9.0	7.8 - 9.9	16	12.03	0.45	3.7	12.0	11.0 - 13.1
Olympus												
Olympus AU	21	8.77	0.14	1.6	8.8	7.7 - 9.8	21	11.33	0.17	1.5	11.3	10.3 - 12.4
Roche Integra												
Roche Integra	42	8.74	0.19	2.1	8.8	7.7 - 9.8	42	11.75	0.23	2.0	11.8	10.7 - 12.8
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	62	8.75	0.22	2.5	8.7	7.7 - 9.8	61	11.43	0.26	2.3	11.4	10.4 - 12.5
All Chemistry Instruments	63	8.74	0.22	2.5	8.7	7.7 - 9.8	62	11.43	0.26	2.2	11.5	10.4 - 12.5
Vital Diagnostics												
Vital Diagnostics ATAC 8000	15	8.69	0.34	3.9	8.7	7.6 - 9.7	15	11.49	0.52	4.6	11.5	10.4 - 12.5
Vital Diagnostics Envoy 500	22	8.69	0.20	2.4	8.7	7.6 - 9.7	23	11.28	0.26	2.3	11.3	10.2 - 12.3
All Chemistry Instruments	37	8.69	0.26	3.0	8.7	7.6 - 9.7	38	11.36	0.40	3.5	11.3	10.3 - 12.4
VITROS												
VITROS 250,350,500,700,750,950	44	8.48	0.17	2.0	8.5	7.4 - 9.5	44	11.42	0.21	1.8	11.4	10.4 - 12.5
All Chemistry Instruments	54	8.50	0.18	2.1	8.5	7.4 - 9.5	54	11.43	0.21	1.9	11.4	10.4 - 12.5

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	407	12.47	0.41	3.3	12.4	11.4 - 13.5	413	9.76	0.28	2.8	9.8	8.7 - 10.8
All Arsenazo Methods	186	12.41	0.37	3.0	12.4	11.4 - 13.5	190	9.78	0.30	3.1	9.8	8.7 - 10.8
All CPC Methods	194	12.57	0.46	3.7	12.5	11.5 - 13.6	193	9.75	0.25	2.6	9.8	8.7 - 10.8
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	12.8	12.0 - 14.1	8	-	-	-	10.1	9.1 - 11.2
Abaxis Piccolo	18	13.16	0.45	3.4	13.0	12.1 - 14.2	18	10.22	0.24	2.4	10.2	9.2 - 11.3
All Chemistry Instruments	26	13.07	0.44	3.4	13.0	12.0 - 14.1	26	10.17	0.23	2.3	10.1	9.1 - 11.2
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	65	12.29	0.30	2.4	12.3	11.2 - 13.3	66	9.75	0.27	2.7	9.8	8.7 - 10.8
All Chemistry Instruments	66	12.30	0.30	2.4	12.4	11.2 - 13.3	67	9.75	0.27	2.7	9.8	8.7 - 10.8
Beckman - electrode												
Beckman Synchron LX/PRO/DxC	17	12.28	0.13	1.0	12.3	11.2 - 13.3	17	9.72	0.12	1.2	9.8	8.7 - 10.8
All Chemistry Instruments	23	12.28	0.14	1.2	12.3	11.2 - 13.3	23	9.72	0.15	1.5	9.7	8.7 - 10.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	13.31	0.50	3.8	13.5	12.3 - 14.4	16	9.91	0.33	3.3	10.0	8.9 - 11.0
Olympus												
Olympus AU	21	12.30	0.19	1.6	12.3	11.2 - 13.3	21	9.69	0.14	1.5	9.7	8.6 - 10.7
Roche Integra												
Roche Integra	42	12.82	0.26	2.1	12.8	11.8 - 13.9	42	9.77	0.20	2.0	9.8	8.7 - 10.8
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	12.40	0.30	2.4	12.4	11.4 - 13.4	62	9.72	0.25	2.5	9.7	8.7 - 10.8
All Chemistry Instruments	61	12.42	0.28	2.2	12.4	11.4 - 13.5	63	9.72	0.24	2.5	9.7	8.7 - 10.8
Vital Diagnostics												
Vital Diagnostics ATAC 8000	15	12.41	0.52	4.2	12.3	11.4 - 13.5	15	9.69	0.37	3.8	9.8	8.6 - 10.7
Vital Diagnostics Envoy 500	23	12.21	0.35	2.9	12.2	11.2 - 13.3	23	9.60	0.22	2.3	9.5	8.6 - 10.7
All Chemistry Instruments	38	12.29	0.43	3.5	12.2	11.2 - 13.3	37	9.66	0.24	2.5	9.6	8.6 - 10.7
VITROS												
VITROS 250,350,500,700,750,950	44	12.44	0.23	1.9	12.5	11.4 - 13.5	44	9.62	0.20	2.1	9.6	8.6 - 10.7
All Chemistry Instruments	54	12.44	0.23	1.8	12.4	11.4 - 13.5	54	9.64	0.21	2.2	9.7	8.6 - 10.7

Calcium (mg/dL)

Specimen CH-15						
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	412	7.25	0.29	4.0	7.3	6.2 - 8.3
All Arsenazo Methods	188	7.30	0.31	4.3	7.3	6.3 - 8.3
All CPC Methods	195	7.19	0.26	3.7	7.2	6.1 - 8.2
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	7.6	6.4 - 8.5
Abaxis Piccolo	17	7.44	0.33	4.5	7.5	6.4 - 8.5
All Chemistry Instruments	25	7.47	0.29	3.9	7.5	6.4 - 8.5
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	65	7.39	0.21	2.9	7.4	6.3 - 8.4
All Chemistry Instruments	66	7.39	0.21	2.8	7.4	6.3 - 8.4
Beckman - electrode						
Beckman Synchron LX/Pro/DxC	17	7.37	0.08	1.0	7.4	6.3 - 8.4
All Chemistry Instruments	22	7.36	0.09	1.2	7.4	6.3 - 8.4
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	6.97	0.32	4.5	7.1	5.9 - 8.0
Olympus						
Olympus AU	21	7.42	0.17	2.2	7.5	6.4 - 8.5
Roche Integra						
Roche Integra	42	7.02	0.16	2.3	7.0	6.0 - 8.1
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	62	7.25	0.21	2.9	7.2	6.2 - 8.3
All Chemistry Instruments	63	7.25	0.21	2.9	7.2	6.2 - 8.3
Vital Diagnostics						
Vital Diagnostics ATAC 8000	15	6.99	0.21	3.1	7.1	5.9 - 8.0
Vital Diagnostics Envoy 500	23	7.29	0.22	3.0	7.3	6.2 - 8.3
All Chemistry Instruments	38	7.17	0.26	3.6	7.2	6.1 - 8.2
VITROS						
VITROS 250,350,500,700,750,950	44	6.93	0.18	2.5	6.9	5.9 - 8.0
All Chemistry Instruments	54	6.96	0.18	2.6	7.0	5.9 - 8.0

Creatinine (mg/dL)

Technical note: The National Kidney Disease Education Program (NKDEP) has launched the Creatinine Standardization Program to address inter-laboratory variation in creatinine assay calibration and provide more accurate estimates of glomerular filtration rate (GFR). Both efforts are part of a larger NKDEP initiative to help health care providers better identify and treat chronic kidney disease in order to prevent or delay kidney failure and improve patient outcomes. The Creatinine Standardization Program encourages in-vitro diagnostics manufacturers to adjust the calibrations of routine serum creatinine methods to be traceable to the internationally accepted reference method—³isotope dilution mass spectrometry (IDMS)—and to work with clinical laboratories to coordinate this calibration adjustment with the introduction of a revised GFR estimating equation appropriate for use with IDMS-traceable creatinine methods. In order to provide appropriate PT grading during this transition, MLE has added ovals to the proficiency test result form to allow participating laboratories to indicate which creatinine calibration method is currently in use. Participants will need to select either “IDMS” for IDMS-traceable calibration method, or “OLD” for traditional calibration method. If you have any question about the traceability of the calibration for the creatinine method in use by your laboratory, contact the reagent and/or calibrator manufacturer for assistance. For more information, and recommendations for clinical laboratories, see <http://www.nkdep.nih.gov/labprofessionals/index.htm>

<u>Standardization/Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	434	5.45	0.37	6.9	5.5	4.6 - 6.3	431	3.75	0.19	5.0	3.8	3.1 - 4.4
IDMS Standardization	183	5.36	0.39	7.3	5.4	4.5 - 6.2	182	3.74	0.16	4.2	3.7	3.1 - 4.3
Abaxis Piccolo												
Abaxis Piccolo - waived	13	5.89	0.16	2.7	5.9	5.0 - 6.8	13	3.94	0.10	2.7	3.9	3.3 - 4.6
All Chemistry Instruments	19	5.85	0.19	3.2	5.9	4.9 - 6.8	19	3.92	0.15	3.9	3.9	3.3 - 4.6
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	24	5.28	0.24	4.6	5.3	4.4 - 6.1	24	3.65	0.18	4.9	3.7	3.0 - 4.2
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	14	5.61	0.12	2.2	5.6	4.7 - 6.5	14	3.76	0.07	2.0	3.8	3.1 - 4.4
All Chemistry Instruments	20	5.63	0.11	2.0	5.6	4.7 - 6.5	20	3.76	0.08	2.2	3.8	3.1 - 4.4
CREA (blank corrected -NH ₃)												
VITROS 250,350,500,700,750,950	10	4.82	0.09	1.9	4.8	4.0 - 5.6	10	3.69	0.06	1.5	3.7	3.1 - 4.3
CRSC (single slide)												
VITROS 250,350,500,700,750,950	25	4.85	0.11	2.2	4.8	4.1 - 5.6	25	3.74	0.09	2.4	3.7	3.1 - 4.4
All Chemistry Instruments	33	4.88	0.14	2.8	4.8	4.1 - 5.7	33	3.77	0.12	3.1	3.8	3.2 - 4.4
Olympus												
Olympus AU	12	5.63	0.15	2.7	5.6	4.7 - 6.5	12	3.73	0.11	2.9	3.7	3.1 - 4.3
Roche Integra												
Roche Integra	21	5.39	0.25	4.6	5.3	4.5 - 6.2	21	3.63	0.16	4.4	3.6	3.0 - 4.2
Non-IDMS Method	191	5.49	0.35	6.4	5.6	4.6 - 6.4	190	3.75	0.21	5.5	3.8	3.1 - 4.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	36	5.22	0.22	4.3	5.2	4.4 - 6.1	36	3.59	0.14	4.0	3.6	3.0 - 4.2
Roche Integra												
Roche Integra	18	5.32	0.40	7.5	5.3	4.5 - 6.2	18	3.58	0.28	7.8	3.6	3.0 - 4.2
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	44	5.78	0.11	1.9	5.8	4.9 - 6.7	46	3.91	0.10	2.6	3.9	3.3 - 4.5
All Chemistry Instruments	45	5.78	0.11	1.9	5.8	4.9 - 6.7	45	3.91	0.08	2.1	3.9	3.3 - 4.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	5.45	0.21	3.9	5.5	4.6 - 6.3	14	3.67	0.12	3.3	3.7	3.1 - 4.3
All Chemistry Instruments	22	5.47	0.26	4.8	5.5	4.6 - 6.3	22	3.70	0.13	3.5	3.7	3.1 - 4.3

Creatinine (mg/dL)

<u>Standardization/Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	418	2.11	0.13	6.1	2.1	1.7 - 2.5	421	3.84	0.25	6.4	3.9	3.2 - 4.5
IDMS Standardization	171	2.11	0.12	5.6	2.1	1.7 - 2.5	171	3.78	0.24	6.3	3.8	3.2 - 4.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	22	2.07	0.12	6.0	2.1	1.7 - 2.4	23	3.76	0.19	5.2	3.7	3.1 - 4.4
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	14	2.08	0.07	3.4	2.1	1.7 - 2.4	14	3.96	0.08	1.9	3.9	3.3 - 4.6
All Chemistry Instruments	20	2.09	0.06	3.1	2.1	1.7 - 2.5	20	3.95	0.07	1.7	3.9	3.3 - 4.6
CREA (blnk corrected -NH3)												
VITROS 250,350,500,700,750,950	10	2.15	0.05	2.5	2.2	1.8 - 2.5	10	3.37	0.35	10.3	3.5	2.8 - 3.9
CRSC (single slide)												
VITROS 250,350,500,700,750,950	25	2.18	0.06	2.9	2.2	1.8 - 2.6	25	3.51	0.10	2.8	3.5	2.9 - 4.1
All Chemistry Instruments	33	2.19	0.07	3.3	2.2	1.8 - 2.6	33	3.55	0.13	3.6	3.5	3.0 - 4.1
Olympus												
Olympus AU	12	2.05	0.11	5.3	2.1	1.7 - 2.4	12	3.89	0.09	2.3	3.9	3.3 - 4.5
Roche Integra												
Roche Integra	21	2.00	0.09	4.6	2.0	1.6 - 2.3	21	3.75	0.20	5.2	3.7	3.1 - 4.4
Non-IDMS Method	186	2.12	0.13	6.0	2.1	1.8 - 2.5	188	3.88	0.23	5.9	3.9	3.3 - 4.5
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	37	2.08	0.14	6.9	2.1	1.7 - 2.4	36	3.72	0.17	4.5	3.7	3.1 - 4.3
Roche Integra												
Roche Integra	18	1.96	0.17	8.6	2.0	1.6 - 2.3	18	3.71	0.32	8.6	3.7	3.1 - 4.3
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	46	2.19	0.08	3.6	2.2	1.8 - 2.6	45	4.07	0.09	2.3	4.1	3.4 - 4.7
All Chemistry Instruments	47	2.19	0.08	3.8	2.2	1.8 - 2.6	46	4.07	0.09	2.3	4.1	3.4 - 4.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	2.06	0.06	3.1	2.1	1.7 - 2.4	14	3.86	0.13	3.3	3.9	3.2 - 4.5
All Chemistry Instruments	22	2.11	0.11	5.1	2.1	1.7 - 2.5	22	3.88	0.12	3.0	3.9	3.2 - 4.5

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

<u>Standardization/Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	425	2.49	0.31	12.5	2.6	2.1 - 2.9
IDMS Standardization	173	2.38	0.34	14.4	2.5	2.0 - 2.8
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	23	2.42	0.11	4.7	2.4	2.0 - 2.8
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	14	2.56	0.08	3.3	2.6	2.1 - 3.0
All Chemistry Instruments	20	2.57	0.08	3.1	2.6	2.1 - 3.0
CREA (blink corrected -NH3)						
VITROS 250,350,500,700,750,950	10	1.87	0.05	2.6	1.9	1.5 - 2.2
CRSC (single slide)						
VITROS 250,350,500,700,750,950	25	1.89	0.07	3.5	1.9	1.5 - 2.2
All Chemistry Instruments	33	1.89	0.07	3.9	1.9	1.5 - 2.2
Olympus						
Olympus AU	12	2.62	0.07	2.7	2.6	2.2 - 3.1
Roche Integra						
Roche Integra	21	2.47	0.16	6.3	2.4	2.0 - 2.9
Non-IDMS Method	187	2.59	0.21	8.3	2.6	2.1 - 3.0
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	36	2.46	0.12	4.9	2.4	2.0 - 2.9
Roche Integra						
Roche Integra	18	2.42	0.24	10.1	2.4	2.0 - 2.8
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	45	2.72	0.09	3.4	2.7	2.3 - 3.2
All Chemistry Instruments	46	2.72	0.09	3.5	2.7	2.3 - 3.2
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	2.67	0.09	3.4	2.7	2.2 - 3.1
All Chemistry Instruments	22	2.67	0.13	4.8	2.7	2.2 - 3.1

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	458	86.0	3.2	3.7	86	77 - 95	455	170.5	5.2	3.0	171	153 - 188
All Roche Integra/c111/c501												
Reagents	53	85.4	2.4	2.8	85	76 - 94	53	170.0	4.2	2.5	170	152 - 187
Abaxis Piccolo												
Abaxis Piccolo - waived	19	89.4	1.0	1.1	89	80 - 99	20	171.5	2.8	1.6	171	154 - 189
Abaxis Piccolo	19	89.3	1.4	1.5	89	80 - 99	18	171.7	1.9	1.1	172	154 - 189
All Chemistry Instruments	38	89.3	1.2	1.3	89	80 - 99	37	171.4	2.0	1.2	172	154 - 189
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	66	86.7	1.9	2.2	87	78 - 96	65	172.1	3.6	2.1	172	154 - 190
All Chemistry Instruments	67	86.7	1.9	2.2	87	78 - 96	66	172.2	3.6	2.1	172	154 - 190
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	14	86.6	1.3	1.6	87	77 - 96	15	170.7	4.3	2.5	171	153 - 188
All Chemistry Instruments	23	86.1	3.0	3.5	86	77 - 95	23	170.8	5.2	3.1	171	153 - 188
Carolina Liquid Chemistries												
Beckman Synchron	10	85.3	1.7	2.0	85	76 - 94	10	168.9	5.7	3.4	171	152 - 186
All Chemistry Instruments	11	85.5	1.7	2.0	85	76 - 94	11	169.4	5.6	3.3	171	152 - 187
Cholestech LDX												
Cholestech LDX - waived	11	79.9	3.6	4.6	79	71 - 88	11	166.1	10.6	6.4	167	149 - 183
All Chemistry Instruments	13	80.2	3.5	4.4	80	72 - 89	13	166.5	10.0	6.0	167	149 - 184
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	86.5	3.7	4.2	87	77 - 96	19	171.9	5.8	3.4	173	154 - 190
Olympus												
Olympus AU	21	86.1	1.7	2.0	86	77 - 95	21	172.0	3.7	2.2	172	154 - 190
Roche Integra												
Roche Integra	44	85.4	2.1	2.5	85	76 - 94	44	170.2	4.0	2.3	170	153 - 188
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	87.1	2.6	2.9	88	78 - 96	60	171.6	3.5	2.0	172	154 - 189
All Chemistry Instruments	62	87.1	2.5	2.9	88	78 - 96	61	171.6	3.4	2.0	172	154 - 189
Vital Diagnostics												
Vital Diagnostics ATAC 8000	15	86.1	2.9	3.3	87	77 - 95	15	172.9	5.4	3.1	174	155 - 191
Vital Diagnostics Envoy 500	23	87.4	2.4	2.7	87	78 - 97	23	174.0	3.6	2.1	174	156 - 192
All Chemistry Instruments	38	86.9	2.6	3.0	87	78 - 96	38	173.5	4.4	2.5	174	156 - 191
VITROS												
VITROS 250,350,500,700,750,950	45	82.5	2.1	2.5	83	74 - 91	45	165.1	4.2	2.6	165	148 - 182
VITROS DT/DTII/DT60	12	81.7	2.0	2.5	82	73 - 90	12	162.9	4.0	2.4	164	146 - 180
All Chemistry Instruments	65	82.2	2.1	2.5	83	73 - 91	65	164.6	4.1	2.5	165	148 - 182

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	437	207.0	5.8	2.8	207	186 - 228	433	122.7	3.6	3.0	123	110 - 135
All Roche Integra/c111/c501												
Reagents	53	205.8	5.2	2.5	206	185 - 227	51	120.9	2.8	2.3	121	108 - 133
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	208	186 - 228	8	-	-	-	124	112 - 138
Abaxis Piccolo	18	206.7	2.3	1.1	207	186 - 228	18	124.8	1.7	1.4	125	112 - 138
All Chemistry Instruments	26	206.7	2.4	1.2	207	186 - 228	26	124.6	1.8	1.4	125	112 - 138
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	68	208.2	5.6	2.7	209	187 - 229	68	123.8	2.7	2.2	124	111 - 137
All Chemistry Instruments	69	208.2	5.5	2.7	209	187 - 230	69	123.7	2.7	2.2	124	111 - 137
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	15	207.7	5.1	2.5	208	186 - 229	15	123.3	2.7	2.2	124	110 - 136
All Chemistry Instruments	23	207.9	6.0	2.9	209	187 - 229	23	123.0	3.5	2.8	124	110 - 136
Carolina Liquid Chemistries												
Beckman Synchron	10	207.0	5.1	2.4	208	186 - 228	10	122.5	4.2	3.4	123	110 - 135
All Chemistry Instruments	11	207.6	5.2	2.5	208	186 - 229	11	122.8	4.1	3.4	123	110 - 136
Cholestech LDX												
Cholestech LDX - waived	3	-	-	-	210	186 - 228	3	-	-	-	117	110 - 135
All Chemistry Instruments	4	-	-	-	219	192 - 236	4	-	-	-	117	106 - 131
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	208.1	6.4	3.1	210	187 - 229	19	124.0	4.2	3.4	125	111 - 137
Olympus												
Olympus AU	21	207.1	4.1	2.0	208	186 - 228	21	122.7	2.8	2.2	124	110 - 135
Roche Integra												
Roche Integra	44	206.0	4.7	2.3	206	185 - 227	42	120.9	2.4	2.0	121	108 - 134
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	62	207.6	4.8	2.3	207	186 - 229	61	123.9	2.5	2.0	124	111 - 137
All Chemistry Instruments	63	207.6	4.8	2.3	207	186 - 229	62	123.9	2.5	2.0	124	111 - 137
Vital Diagnostics												
Vital Diagnostics ATAC 8000	15	211.3	6.2	2.9	212	190 - 233	15	125.6	3.1	2.4	126	113 - 139
Vital Diagnostics Envoy 500	23	211.0	5.8	2.7	211	189 - 233	23	124.9	3.3	2.7	126	112 - 138
All Chemistry Instruments	38	211.1	5.9	2.8	212	189 - 233	37	125.4	2.8	2.2	126	112 - 138
VITROS												
VITROS 250,350,500,700,750,950	45	202.2	4.9	2.4	202	181 - 223	45	118.5	3.0	2.5	118	106 - 131
VITROS DT/DTII/DT60	12	200.2	5.4	2.7	201	180 - 221	12	118.0	2.6	2.2	119	106 - 130
All Chemistry Instruments	65	201.7	4.8	2.4	202	181 - 222	65	118.4	2.9	2.4	118	106 - 131

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	434	62.6	2.6	4.1	63	56 - 69
All Roche Integra/c111/c501						
Reagents	53	60.0	1.8	3.0	60	54 - 67
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	65	58 - 72
Abaxis Piccolo	17	65.2	0.8	1.3	65	58 - 72
All Chemistry Instruments	25	65.1	0.9	1.3	65	58 - 72
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	67	63.6	1.6	2.5	64	57 - 70
All Chemistry Instruments	68	63.6	1.6	2.5	64	57 - 70
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	15	63.3	1.4	2.3	63	56 - 70
All Chemistry Instruments	23	62.7	2.1	3.3	63	56 - 69
Carolina Liquid Chemistries						
Beckman Synchron	10	61.8	2.8	4.6	63	55 - 68
All Chemistry Instruments	11	62.1	2.8	4.6	63	55 - 69
Cholestech LDX						
Cholestech LDX - waived	3	-	-	-	58	56 - 69
All Chemistry Instruments	4	-	-	-	58	52 - 65
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	61.3	3.1	5.1	61	55 - 68
Olympus						
Olympus AU	21	60.6	1.5	2.5	61	54 - 67
Roche Integra						
Roche Integra	44	60.0	1.8	3.0	60	54 - 66
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	60	64.1	1.8	2.8	64	57 - 71
All Chemistry Instruments	61	64.1	1.8	2.7	64	57 - 71
Vital Diagnostics						
Vital Diagnostics ATAC 8000	15	64.5	1.8	2.7	65	58 - 71
Vital Diagnostics Envoy 500	23	65.0	2.1	3.2	65	58 - 72
All Chemistry Instruments	38	64.8	1.9	3.0	65	58 - 72
VITROS						
VITROS 250,350,500,700,750,950	45	61.5	1.8	2.9	62	55 - 68
VITROS DT/DTII/DT60	12	62.4	2.0	3.2	62	56 - 69
All Chemistry Instruments	65	61.6	1.8	3.0	62	55 - 68

Iron (mcg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	147	106.8	6.4	6.0	106	85 - 129	147	123.7	7.8	6.3	123	98 - 149
All Roche Integra/c111/c501												
Reagents	19	107.4	5.3	4.9	107	85 - 129	19	126.2	4.6	3.6	126	100 - 152
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	13	103.6	2.7	2.6	104	82 - 125	13	118.4	4.4	3.7	117	94 - 143
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	13	112.6	5.0	4.4	111	90 - 136	13	128.2	5.2	4.0	128	102 - 154
All Chemistry Instruments	14	112.8	4.8	4.3	113	90 - 136	14	128.4	5.0	3.9	128	102 - 155
Olympus												
Olympus AU	16	118.1	3.2	2.7	118	94 - 142	16	137.3	5.4	4.0	136	109 - 165
Roche Integra												
Roche Integra	17	106.5	4.4	4.2	106	85 - 128	17	125.2	3.4	2.7	126	100 - 151
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	28	103.9	2.5	2.4	104	83 - 125	28	122.8	2.6	2.1	123	98 - 148
All Chemistry Instruments	29	103.9	2.5	2.4	104	83 - 125	29	123.0	2.6	2.1	123	98 - 148
VITROS												
VITROS 250,350,500,700,750,950	15	105.9	5.7	5.4	107	84 - 128	15	122.3	7.7	6.3	121	97 - 147
All Chemistry Instruments	21	107.8	5.6	5.2	109	86 - 130	21	124.9	7.9	6.4	124	99 - 150
<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	147	159.5	9.5	6.0	160	127 - 192	148	143.5	9.1	6.3	143	114 - 173
All Roche Integra/c111/c501												
Reagents	19	160.2	5.8	3.6	160	128 - 193	18	142.9	2.8	2.0	143	114 - 172
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	13	151.0	3.7	2.5	150	120 - 182	13	137.2	5.0	3.6	138	109 - 165
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	13	164.1	6.7	4.1	162	131 - 197	13	148.7	6.3	4.2	147	118 - 179
All Chemistry Instruments	14	164.1	6.5	3.9	163	131 - 197	14	148.7	6.0	4.1	148	118 - 179
Olympus												
Olympus AU	16	175.4	6.5	3.7	174	140 - 211	16	158.1	4.9	3.1	157	126 - 190
Roche Integra												
Roche Integra	17	159.2	4.9	3.1	160	127 - 192	17	142.6	2.7	1.9	143	114 - 172
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	27	159.3	3.6	2.3	159	127 - 192	28	141.6	3.5	2.5	142	113 - 170
All Chemistry Instruments	28	159.4	3.6	2.2	160	127 - 192	29	141.7	3.5	2.5	142	113 - 171
VITROS												
VITROS 250,350,500,700,750,950	15	164.0	7.0	4.3	166	131 - 197	15	146.4	7.9	5.4	149	117 - 176
All Chemistry Instruments	20	166.8	4.6	2.8	168	133 - 201	21	148.4	8.1	5.5	150	118 - 179

Iron (mcg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	149	220.2	15.7	7.1	218	176 - 265
All Roche Integra/c111/c501						
Reagents	19	218.5	4.8	2.2	218	174 - 263
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	13	207.9	4.5	2.2	208	166 - 250
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	13	223.8	7.7	3.5	223	179 - 269
All Chemistry Instruments	14	223.7	7.4	3.3	223	178 - 269
Olympus						
Olympus AU	16	241.1	6.6	2.7	240	192 - 290
Roche Integra						
Roche Integra	17	217.5	3.9	1.8	217	174 - 262
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	27	214.7	4.3	2.0	215	171 - 258
All Chemistry Instruments	28	214.9	4.4	2.1	216	171 - 258
VITROS						
VITROS 250,350,500,700,750,950	15	241.3	9.7	4.0	242	193 - 290
All Chemistry Instruments	21	242.1	8.4	3.5	242	193 - 291

Magnesium (mg/dL)

Specimen CH-11

Specimen CH-12

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	191	4.34	0.38	8.9	4.3	3.2 - 5.5	191	3.12	0.27	8.8	3.1	2.3 - 4.0
All Roche Integra/c111/c501												
Reagents	26	4.19	0.13	3.2	4.2	3.1 - 5.3	26	3.05	0.09	3.1	3.1	2.2 - 3.9
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	19	3.97	0.22	5.6	4.0	2.9 - 5.0	19	2.88	0.23	8.0	2.8	2.1 - 3.6
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	11	4.42	0.13	3.0	4.4	3.3 - 5.6	11	3.16	0.13	4.1	3.1	2.3 - 4.0
All Chemistry Instruments	17	4.41	0.14	3.1	4.4	3.3 - 5.6	17	3.16	0.13	4.2	3.1	2.3 - 4.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	4.14	0.22	5.4	4.1	3.1 - 5.2	12	3.03	0.23	7.7	3.0	2.2 - 3.8
Olympus												
Olympus AU	16	4.28	0.35	8.3	4.3	3.2 - 5.4	16	3.02	0.16	5.2	3.1	2.2 - 3.8
Roche Integra												
Roche Integra	19	4.21	0.14	3.4	4.2	3.1 - 5.3	19	3.05	0.10	3.2	3.0	2.2 - 3.9
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	29	4.54	0.15	3.3	4.5	3.4 - 5.7	29	3.26	0.12	3.8	3.2	2.4 - 4.1
All Chemistry Instruments	30	4.54	0.15	3.3	4.5	3.4 - 5.7	30	3.26	0.12	3.7	3.2	2.4 - 4.1
Vital Diagnostics												
All Chemistry Instruments	15	4.05	0.40	9.8	4.1	3.0 - 5.1	15	2.95	0.32	10.8	3.1	2.2 - 3.7
VITROS												
VITROS 250,350,500,700,750,950	18	4.94	0.19	3.7	4.9	3.7 - 6.2	18	3.54	0.14	4.0	3.6	2.6 - 4.5
All Chemistry Instruments	26	4.93	0.17	3.4	4.9	3.7 - 6.2	26	3.54	0.13	3.6	3.6	2.6 - 4.5

Magnesium (mg/dL)

Specimen CH-13							Specimen CH-14					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	191	2.37	0.20	8.2	2.4	1.7 - 3.0	190	3.55	0.29	8.2	3.6	2.6 - 4.5
All Roche Integra/c111/c501												
Reagents	26	2.36	0.08	3.4	2.4	1.7 - 3.0	26	3.46	0.12	3.4	3.5	2.5 - 4.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	19	2.17	0.16	7.2	2.1	1.6 - 2.8	19	3.30	0.17	5.2	3.3	2.4 - 4.2
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	11	2.40	0.06	2.6	2.4	1.8 - 3.0	11	3.61	0.14	3.8	3.6	2.7 - 4.6
All Chemistry Instruments	17	2.39	0.09	3.9	2.4	1.7 - 3.0	17	3.59	0.15	4.1	3.6	2.6 - 4.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	2.37	0.22	9.2	2.4	1.7 - 3.0	12	3.39	0.22	6.5	3.4	2.5 - 4.3
Olympus												
Olympus AU	15	2.29	0.13	5.7	2.3	1.7 - 2.9	16	3.54	0.34	9.6	3.5	2.6 - 4.5
Roche Integra												
Roche Integra	19	2.36	0.08	3.5	2.4	1.7 - 3.0	19	3.45	0.12	3.5	3.5	2.5 - 4.4
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	29	2.40	0.11	4.4	2.4	1.7 - 3.0	29	3.69	0.12	3.2	3.7	2.7 - 4.7
All Chemistry Instruments	30	2.40	0.10	4.3	2.4	1.7 - 3.0	30	3.69	0.12	3.2	3.7	2.7 - 4.7
Vital Diagnostics												
All Chemistry Instruments	15	2.27	0.21	9.2	2.2	1.7 - 2.9	15	3.38	0.34	10.2	3.4	2.5 - 4.3
VITROS												
VITROS 250,350,500,700,750,950	18	2.67	0.11	4.1	2.7	2.0 - 3.4	18	4.02	0.19	4.7	4.0	3.0 - 5.1
All Chemistry Instruments	26	2.65	0.12	4.6	2.6	1.9 - 3.4	26	4.01	0.17	4.3	4.0	3.0 - 5.1
Specimen CH-15												
All Method	189	3.66	0.29	7.9	3.7	2.7 - 4.6						
All Roche Integra/c111/c501												
Reagents	26	3.51	0.10	2.8	3.5	2.6 - 4.4						
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	19	3.40	0.23	6.7	3.4	2.5 - 4.3						
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	11	3.77	0.14	3.8	3.7	2.8 - 4.8						
All Chemistry Instruments	17	3.78	0.15	4.0	3.8	2.8 - 4.8						
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	3.58	0.22	6.3	3.6	2.6 - 4.5						
Olympus												
Olympus AU	14	3.61	0.09	2.5	3.6	2.7 - 4.6						
Roche Integra												
Roche Integra	19	3.51	0.10	3.0	3.5	2.6 - 4.4						
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	29	3.81	0.13	3.5	3.8	2.8 - 4.8						
All Chemistry Instruments	30	3.82	0.13	3.4	3.8	2.8 - 4.8						
Vital Diagnostics												
All Chemistry Instruments	15	3.53	0.48	13.5	3.5	2.6 - 4.5						
VITROS												
VITROS 250,350,500,700,750,950	18	4.07	0.17	4.3	4.1	3.0 - 5.1						
All Chemistry Instruments	26	4.06	0.16	3.9	4.0	3.0 - 5.1						

Phosphorus (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-11					Specimen CH-12					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	170	5.29	0.26	4.9	5.3	4.5 - 6.1	169	4.07	0.18	4.5	4.1	3.5 - 4.7
All Roche Integra/c111/c501												
Reagents	23	5.31	0.17	3.3	5.3	4.7 - 5.9	22	4.05	0.11	2.6	4.1	3.7 - 4.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	23	5.12	0.27	5.4	5.1	4.2 - 6.0	23	3.97	0.22	5.6	4.0	3.3 - 4.7
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	13	5.48	0.30	5.4	5.5	4.5 - 6.4	13	4.18	0.25	6.0	4.2	3.4 - 5.0
All Chemistry Instruments	17	5.47	0.27	5.0	5.5	4.6 - 6.3	17	4.16	0.23	5.6	4.2	3.4 - 4.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	5.45	0.33	6.1	5.4	4.4 - 6.5	11	4.15	0.22	5.2	4.2	3.5 - 4.9
Olympus												
Olympus AU	11	5.18	0.11	2.1	5.2	4.8 - 5.6	11	3.94	0.10	2.6	3.9	3.6 - 4.3
Roche Integra												
Roche Integra	18	5.33	0.18	3.3	5.3	4.7 - 5.9	18	4.09	0.14	3.4	4.1	3.6 - 4.6
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	30	5.32	0.13	2.4	5.3	4.9 - 5.8	30	4.04	0.10	2.4	4.0	3.7 - 4.4
All Chemistry Instruments	31	5.32	0.13	2.4	5.3	4.9 - 5.7	31	4.04	0.10	2.4	4.0	3.7 - 4.4
Vital Diagnostics												
All Chemistry Instruments	11	5.32	0.13	2.4	5.3	4.9 - 5.7	11	4.07	0.13	3.3	4.1	3.6 - 4.5
VITROS												
VITROS 250,350,500,700,750,950	16	5.04	0.15	2.9	5.0	4.6 - 5.5	16	4.06	0.14	3.4	4.0	3.6 - 4.5
All Chemistry Instruments	21	5.04	0.14	2.8	5.0	4.6 - 5.5	21	4.06	0.13	3.2	4.0	3.6 - 4.5

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	416	4.29	0.15	3.5	4.3	3.8 - 4.8	417	4.16	0.15	3.7	4.2	3.7 - 4.6
All Roche Integra/c111/c501 Reagents	49	4.22	0.10	2.3	4.2	3.8 - 4.7	49	4.11	0.10	2.4	4.1	3.6 - 4.6
Abaxis Piccolo												
Abaxis Piccolo - waived	20	4.42	0.08	1.8	4.4	3.9 - 4.9	20	4.28	0.10	2.3	4.3	3.8 - 4.8
Abaxis Piccolo	19	4.43	0.07	1.7	4.4	3.9 - 4.9	19	4.33	0.10	2.4	4.3	3.8 - 4.8
All Chemistry Instruments	39	4.42	0.08	1.8	4.4	3.9 - 4.9	39	4.30	0.10	2.4	4.3	3.8 - 4.8
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	66	4.29	0.14	3.2	4.3	3.8 - 4.8	66	4.17	0.13	3.2	4.2	3.7 - 4.6
All Chemistry Instruments	67	4.29	0.13	3.1	4.3	3.8 - 4.8	67	4.17	0.13	3.2	4.2	3.7 - 4.6
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	18	4.18	0.20	4.9	4.2	3.7 - 4.6	17	4.00	0.11	2.8	4.0	3.6 - 4.4
All Chemistry Instruments	24	4.20	0.13	3.2	4.2	3.7 - 4.7	24	3.99	0.11	2.7	4.0	3.5 - 4.4
Carolina Liquid Chemistries												
Beckman Synchron	10	4.06	0.17	4.2	4.0	3.6 - 4.5	10	3.92	0.20	5.1	3.9	3.5 - 4.4
All Chemistry Instruments	11	4.11	0.23	5.6	4.0	3.6 - 4.6	11	3.95	0.22	5.6	3.9	3.5 - 4.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	4.44	0.14	3.1	4.5	3.9 - 4.9	19	4.26	0.13	3.0	4.3	3.8 - 4.7
Olympus												
Olympus AU	22	4.21	0.11	2.7	4.2	3.7 - 4.7	22	4.09	0.10	2.4	4.1	3.6 - 4.5
Roche Integra												
Roche Integra	42	4.20	0.09	2.1	4.2	3.7 - 4.7	42	4.09	0.09	2.1	4.1	3.6 - 4.5
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	4.40	0.08	1.9	4.4	3.9 - 4.9	59	4.28	0.07	1.6	4.3	3.8 - 4.8
All Chemistry Instruments	61	4.39	0.09	2.1	4.4	3.9 - 4.9	60	4.28	0.07	1.6	4.3	3.8 - 4.8
Vital Diagnostics												
Vital Diagnostics ATAC 8000	14	4.34	0.21	4.8	4.4	3.9 - 4.8	14	4.19	0.23	5.4	4.2	3.7 - 4.7
Vital Diagnostics Envoy 500	21	4.30	0.09	2.1	4.3	3.8 - 4.8	21	4.15	0.13	3.1	4.1	3.7 - 4.6
All Chemistry Instruments	34	4.30	0.11	2.5	4.3	3.8 - 4.8	33	4.16	0.13	3.1	4.2	3.7 - 4.6
VITROS												
VITROS 250,350,500,700,750,950	43	4.17	0.10	2.3	4.2	3.7 - 4.6	43	4.05	0.10	2.4	4.0	3.6 - 4.5
All Chemistry Instruments	50	4.16	0.09	2.3	4.2	3.7 - 4.6	51	4.05	0.09	2.3	4.0	3.6 - 4.5

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	403	4.84	0.18	3.7	4.9	4.3 - 5.4	404	5.00	0.19	3.8	5.0	4.4 - 5.5
All Roche Integra/c111/c501												
Reagents	49	4.80	0.11	2.2	4.8	4.3 - 5.3	49	4.93	0.12	2.4	5.0	4.4 - 5.5
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	5.0	4.4 - 5.5	8	-	-	-	5.1	4.6 - 5.7
Abaxis Piccolo	18	5.01	0.06	1.2	5.0	4.5 - 5.6	18	5.15	0.09	1.8	5.1	4.6 - 5.7
All Chemistry Instruments	26	4.99	0.07	1.4	5.0	4.4 - 5.5	26	5.13	0.08	1.6	5.1	4.6 - 5.7
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	66	4.82	0.16	3.2	4.8	4.3 - 5.3	65	5.01	0.15	2.9	5.0	4.5 - 5.6
All Chemistry Instruments	67	4.82	0.15	3.2	4.8	4.3 - 5.3	66	5.01	0.15	2.9	5.0	4.5 - 5.6
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	4.65	0.12	2.6	4.6	4.1 - 5.2	18	4.82	0.21	4.3	4.8	4.3 - 5.3
All Chemistry Instruments	24	4.63	0.13	2.7	4.6	4.1 - 5.1	24	4.83	0.15	3.1	4.8	4.3 - 5.4
Carolina Liquid Chemistries												
Beckman Synchron	10	4.54	0.24	5.2	4.5	4.0 - 5.0	10	4.72	0.21	4.4	4.7	4.2 - 5.2
All Chemistry Instruments	11	4.60	0.30	6.5	4.5	4.1 - 5.1	11	4.77	0.26	5.6	4.7	4.2 - 5.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	4.95	0.14	2.8	4.9	4.4 - 5.5	19	5.16	0.16	3.1	5.1	4.6 - 5.7
Olympus												
Olympus AU	22	4.78	0.13	2.8	4.8	4.2 - 5.3	21	4.93	0.10	2.0	4.9	4.4 - 5.5
Roche Integra												
Roche Integra	42	4.79	0.11	2.3	4.8	4.3 - 5.3	42	4.92	0.12	2.4	4.9	4.4 - 5.5
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	5.02	0.08	1.5	5.0	4.5 - 5.6	61	5.16	0.10	2.0	5.2	4.6 - 5.7
All Chemistry Instruments	61	5.01	0.08	1.5	5.0	4.5 - 5.6	62	5.16	0.10	2.0	5.2	4.6 - 5.7
Vital Diagnostics												
Vital Diagnostics ATAC 8000	14	4.94	0.21	4.3	4.9	4.4 - 5.5	14	5.09	0.24	4.7	5.1	4.5 - 5.7
Vital Diagnostics Envoy 500	21	4.87	0.11	2.2	4.9	4.3 - 5.4	21	5.00	0.09	1.7	5.0	4.5 - 5.6
All Chemistry Instruments	34	4.88	0.12	2.4	4.9	4.3 - 5.4	34	5.02	0.12	2.5	5.0	4.5 - 5.6
VITROS												
VITROS 250,350,500,700,750,950	42	4.69	0.13	2.7	4.7	4.2 - 5.2	43	4.80	0.13	2.6	4.8	4.3 - 5.3
All Chemistry Instruments	50	4.69	0.12	2.6	4.7	4.2 - 5.2	51	4.80	0.12	2.6	4.8	4.3 - 5.3

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	403	7.33	0.32	4.4	7.4	6.6 - 8.1
All Roche Integra/c111/c501						
Reagents	49	7.26	0.14	1.9	7.3	6.5 - 8.0
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	7.5	6.8 - 8.4
Abaxis Piccolo	18	7.61	0.15	2.0	7.6	6.8 - 8.4
All Chemistry Instruments	25	7.56	0.11	1.5	7.5	6.8 - 8.4
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	64	7.29	0.21	2.9	7.3	6.5 - 8.1
All Chemistry Instruments	65	7.29	0.21	2.9	7.3	6.5 - 8.1
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	17	7.18	0.17	2.3	7.1	6.4 - 7.9
All Chemistry Instruments	24	7.17	0.15	2.1	7.2	6.4 - 7.9
Carolina Liquid Chemistries						
Beckman Synchron	9	-	-	-	6.9	6.3 - 7.8
All Chemistry Instruments	10	7.08	0.36	5.1	7.0	6.3 - 7.8
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	7.54	0.18	2.3	7.6	6.7 - 8.3
Olympus						
Olympus AU	22	7.28	0.18	2.5	7.3	6.5 - 8.1
Roche Integra						
Roche Integra	42	7.24	0.13	1.8	7.2	6.5 - 8.0
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	60	7.69	0.17	2.1	7.7	6.9 - 8.5
All Chemistry Instruments	61	7.69	0.16	2.1	7.7	6.9 - 8.5
Vital Diagnostics						
Vital Diagnostics ATAC 8000	14	7.53	0.31	4.1	7.5	6.7 - 8.3
Vital Diagnostics Envoy 500	21	7.40	0.16	2.1	7.4	6.6 - 8.2
All Chemistry Instruments	33	7.41	0.16	2.2	7.4	6.6 - 8.2
VITROS						
VITROS 250,350,500,700,750,950	43	6.86	0.19	2.8	6.8	6.1 - 7.6
All Chemistry Instruments	51	6.83	0.20	2.9	6.8	6.1 - 7.6

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	430	13.4	1.0	7.4	14	11 - 16	431	27.5	2.0	7.2	28	25 - 30
All Roche Integra/c111/c501												
Reagents	53	13.1	0.7	5.7	13	11 - 16	52	27.1	1.1	4.0	27	24 - 30
Abaxis Piccolo												
Abaxis Piccolo - waived	20	13.8	0.6	4.5	14	11 - 16	20	26.7	0.7	2.8	27	24 - 30
Abaxis Piccolo	18	13.9	0.7	4.9	14	11 - 16	18	26.8	1.0	3.7	27	24 - 30
All Chemistry Instruments	38	13.8	0.6	4.6	14	11 - 16	38	26.7	0.9	3.2	27	24 - 30
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	68	13.6	0.9	6.4	14	11 - 16	68	28.6	1.2	4.2	29	26 - 32
All Chemistry Instruments	69	13.6	0.9	6.4	14	11 - 16	69	28.6	1.2	4.2	29	26 - 32
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	14.4	0.5	3.5	14	12 - 17	17	28.5	0.9	3.1	29	25 - 32
All Chemistry Instruments	25	14.3	0.5	3.8	14	12 - 17	25	28.5	0.8	2.9	29	25 - 32
Carolina Liquid Chemistries												
Beckman Synchron	10	14.0	0.9	6.7	14	12 - 16	10	28.3	1.2	4.1	29	25 - 31
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	13.7	0.7	4.8	14	11 - 16	19	28.3	1.1	3.9	28	25 - 31
Olympus												
Olympus AU	21	13.8	0.6	4.5	14	11 - 16	21	28.2	1.0	3.7	28	25 - 31
Roche Integra												
Roche Integra	43	13.1	0.8	6.0	13	11 - 16	42	27.1	1.1	4.1	27	24 - 30
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	13.5	0.9	6.4	14	11 - 16	61	28.4	1.1	4.0	28	25 - 31
All Chemistry Instruments	62	13.5	0.9	6.4	14	11 - 16	62	28.4	1.1	3.9	28	25 - 31
Vital Diagnostics												
Vital Diagnostics ATAC 8000	15	13.9	0.6	4.3	14	11 - 16	15	28.4	1.0	3.5	29	25 - 31
Vital Diagnostics Envoy 500	23	14.5	0.7	4.6	14	12 - 17	23	28.9	1.5	5.1	29	26 - 32
All Chemistry Instruments	38	14.3	0.7	4.9	14	12 - 17	36	28.5	1.0	3.4	29	25 - 32
VITROS												
VITROS 250,350,500,700,750,950	44	12.1	0.3	2.7	12	10 - 15	44	23.7	0.7	2.8	24	21 - 26
All Chemistry Instruments	57	12.0	0.4	3.3	12	10 - 15	56	23.6	0.7	2.8	24	21 - 26

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	419	35.6	2.6	7.4	36	32 - 39	419	21.7	1.5	6.8	22	19 - 24
All Roche Integra/c111/c501												
Reagents	52	35.5	1.3	3.6	36	32 - 39	52	21.3	0.8	4.0	21	19 - 24
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	35	31 - 38	8	-	-	-	21	19 - 24
Abaxis Piccolo	17	34.4	1.0	2.9	34	31 - 38	16	21.1	0.3	1.6	21	19 - 24
All Chemistry Instruments	25	34.4	1.0	2.8	34	31 - 38	24	21.2	0.4	1.8	21	19 - 24
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	68	37.3	1.5	4.1	37	33 - 41	67	22.4	1.0	4.4	22	20 - 25
All Chemistry Instruments	69	37.2	1.5	4.1	37	33 - 41	68	22.4	1.0	4.4	22	20 - 25
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	37.2	1.1	3.0	37	33 - 41	17	22.8	0.7	3.2	23	20 - 25
All Chemistry Instruments	25	37.0	1.2	3.2	37	33 - 41	25	22.7	0.7	3.2	23	20 - 25
Carolina Liquid Chemistries												
Beckman Synchron	10	36.8	1.1	3.1	37	33 - 41	10	21.9	1.1	5.0	22	19 - 24
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	36.9	1.1	3.0	37	33 - 41	19	22.3	1.0	4.5	22	20 - 25
Olympus												
Olympus AU	21	36.5	1.1	3.0	37	33 - 40	21	22.0	0.9	3.9	22	20 - 25
Roche Integra												
Roche Integra	42	35.5	1.3	3.5	36	32 - 39	42	21.3	0.8	3.8	21	19 - 24
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	62	36.9	1.3	3.6	37	33 - 41	62	22.1	1.1	4.8	22	20 - 25
All Chemistry Instruments	63	36.8	1.3	3.6	37	33 - 41	63	22.1	1.1	4.8	22	20 - 25
Vital Diagnostics												
Vital Diagnostics ATAC 8000	15	37.0	1.2	3.2	37	33 - 41	15	22.5	0.7	3.3	23	20 - 25
Vital Diagnostics Envoy 500	23	36.7	1.6	4.3	37	33 - 40	23	22.8	1.0	4.5	23	20 - 25
All Chemistry Instruments	38	36.8	1.4	3.9	37	33 - 41	38	22.7	0.9	4.1	23	20 - 25
VITROS												
VITROS 250,350,500,700,750,950	45	30.3	0.7	2.3	30	27 - 34	45	19.2	0.5	2.7	19	17 - 22
All Chemistry Instruments	56	30.2	0.7	2.4	30	27 - 33	57	19.1	0.6	3.2	19	17 - 22

Urea Nitrogen (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	415	17.9	1.2	6.6	18	15 - 20
All Roche Integra/c111/c501						
Reagents	53	17.4	0.9	5.1	17	15 - 20
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	18	15 - 20
Abaxis Piccolo	16	17.4	0.5	2.9	17	15 - 20
All Chemistry Instruments	25	17.7	0.9	4.8	17	15 - 20
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	68	18.3	0.8	4.5	18	16 - 21
All Chemistry Instruments	69	18.3	0.8	4.5	18	16 - 21
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	17	19.1	0.6	2.9	19	17 - 22
All Chemistry Instruments	25	18.9	0.6	3.4	19	16 - 21
Carolina Liquid Chemistries						
Beckman Synchron	10	18.0	1.3	7.4	19	16 - 20
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	18.6	1.0	5.2	19	16 - 21
Olympus						
Olympus AU	21	18.0	0.7	4.1	18	15 - 20
Roche Integra						
Roche Integra	43	17.4	0.9	5.0	17	15 - 20
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	60	18.2	0.8	4.7	18	16 - 21
All Chemistry Instruments	61	18.2	0.8	4.6	18	16 - 21
Vital Diagnostics						
Vital Diagnostics ATAC 8000	15	18.7	0.8	4.4	19	16 - 21
Vital Diagnostics Envoy 500	22	19.3	1.0	5.1	19	17 - 22
All Chemistry Instruments	36	19.0	0.8	4.5	19	16 - 21
VITROS						
VITROS 250,350,500,700,750,950	45	16.3	0.5	2.8	16	14 - 19
All Chemistry Instruments	57	16.3	0.5	3.0	16	14 - 19

Uric Acid (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	282	5.70	0.30	5.2	5.7	4.7 - 6.7	279	9.92	0.42	4.2	9.9	8.2 - 11.7
All Roche Integra/c111/c501												
Reagents	32	5.56	0.16	2.9	5.6	4.6 - 6.6	32	9.83	0.28	2.9	9.8	8.1 - 11.6
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	45	5.97	0.23	3.9	6.0	4.9 - 7.0	44	10.13	0.30	2.9	10.1	8.4 - 11.9
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	16	5.38	0.13	2.5	5.4	4.4 - 6.3	16	9.48	0.20	2.1	9.5	7.8 - 11.1
All Chemistry Instruments	24	5.39	0.11	2.1	5.4	4.4 - 6.4	25	9.48	0.18	1.9	9.5	7.8 - 11.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	5.53	0.30	5.5	5.6	4.5 - 6.5	14	9.69	0.45	4.6	9.7	8.0 - 11.4
Olympus												
Olympus AU	18	6.22	0.12	1.9	6.2	5.1 - 7.3	19	10.84	0.25	2.3	10.8	8.9 - 12.7
Roche Integra												
Roche Integra	29	5.54	0.15	2.8	5.5	4.5 - 6.5	29	9.82	0.27	2.8	9.8	8.1 - 11.5
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	44	5.71	0.13	2.2	5.7	4.7 - 6.7	44	9.89	0.20	2.0	9.9	8.2 - 11.6
All Chemistry Instruments	45	5.71	0.13	2.2	5.7	4.7 - 6.7	45	9.89	0.19	2.0	9.9	8.2 - 11.6
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	5.71	0.15	2.7	5.7	4.7 - 6.7	18	10.14	0.38	3.7	10.2	8.4 - 11.9
All Chemistry Instruments	27	5.61	0.22	3.9	5.7	4.6 - 6.6	27	9.91	0.47	4.8	9.9	8.2 - 11.6
VITROS												
VITROS 250,350,500,700,750,950	30	5.65	0.13	2.2	5.7	4.6 - 6.7	29	9.70	0.18	1.8	9.7	8.0 - 11.4
All Chemistry Instruments	38	5.66	0.14	2.5	5.7	4.6 - 6.7	37	9.72	0.19	2.0	9.7	8.0 - 11.4

Uric Acid (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-13					Specimen CH-14					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	277	11.50	0.50	4.4	11.4	9.5 - 13.5	279	7.17	0.32	4.4	7.1	5.9 - 8.4
All Roche Integra/c111/c501												
Reagents	32	11.32	0.33	2.9	11.3	9.3 - 13.3	32	7.07	0.19	2.7	7.0	5.8 - 8.3
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	44	11.95	0.35	2.9	11.9	9.9 - 14.0	43	7.36	0.17	2.3	7.4	6.1 - 8.7
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	16	11.13	0.23	2.1	11.1	9.2 - 13.1	16	6.88	0.14	2.1	6.9	5.7 - 8.1
All Chemistry Instruments	25	11.08	0.21	1.9	11.1	9.1 - 13.0	25	6.87	0.13	1.9	6.9	5.7 - 8.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	11.14	0.52	4.7	11.3	9.2 - 13.1	14	6.94	0.31	4.4	7.0	5.7 - 8.2
Olympus												
Olympus AU	19	12.42	0.26	2.1	12.4	10.3 - 14.6	19	7.79	0.15	1.9	7.8	6.4 - 9.2
Roche Integra												
Roche Integra	29	11.30	0.32	2.9	11.3	9.3 - 13.3	29	7.06	0.19	2.7	7.0	5.8 - 8.3
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	44	11.34	0.22	1.9	11.3	9.4 - 13.3	43	7.13	0.16	2.3	7.1	5.9 - 8.4
All Chemistry Instruments	45	11.34	0.22	1.9	11.3	9.4 - 13.3	44	7.13	0.16	2.3	7.1	5.9 - 8.4
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	11.65	0.31	2.6	11.7	9.6 - 13.7	18	7.29	0.30	4.1	7.2	6.0 - 8.6
All Chemistry Instruments	27	11.40	0.47	4.1	11.4	9.4 - 13.4	27	7.15	0.33	4.6	7.1	5.9 - 8.4
VITROS												
VITROS 250,350,500,700,750,950	30	11.20	0.23	2.0	11.2	9.2 - 13.2	30	7.07	0.15	2.1	7.1	5.8 - 8.3

Uric Acid (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	280	3.29	0.42	12.7	3.2	2.7 - 3.9
All Roche Integra/c111/c501						
Reagents	32	2.98	0.09	3.2	3.0	2.4 - 3.5
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	44	4.10	0.18	4.4	4.1	3.4 - 4.8
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	16	3.13	0.06	1.8	3.1	2.5 - 3.7
All Chemistry Instruments	24	3.14	0.06	1.9	3.1	2.6 - 3.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	14	2.95	0.22	7.4	3.0	2.4 - 3.5
Olympus						
Olympus AU	17	3.39	0.06	1.8	3.4	2.8 - 4.0
Roche Integra						
Roche Integra	29	2.98	0.10	3.2	3.0	2.4 - 3.5
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	44	3.15	0.16	5.0	3.1	2.6 - 3.7
All Chemistry Instruments	45	3.16	0.16	4.9	3.1	2.6 - 3.7
Vital Diagnostics						
Vital Diagnostics Envoy 500	18	3.15	0.21	6.6	3.1	2.6 - 3.7
All Chemistry Instruments	26	3.11	0.14	4.5	3.1	2.5 - 3.7
VITROS						
VITROS 250,350,500,700,750,950	30	3.10	0.09	3.0	3.1	2.5 - 3.7
All Chemistry Instruments	37	3.10	0.11	3.4	3.1	2.5 - 3.7

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	417	109.7	2.3	2.1	110	104 - 116	414	95.5	1.8	1.9	95	90 - 101
Abaxis Piccolo												
Abaxis Piccolo - waived	18	108.7	1.7	1.6	109	103 - 115	18	96.5	2.5	2.5	96	91 - 102
Abaxis Piccolo	18	108.4	2.6	2.4	108	102 - 114	18	96.7	2.7	2.8	97	91 - 102
All Chemistry Instruments	36	108.8	1.7	1.6	109	103 - 115	37	96.6	2.5	2.6	96	91 - 102
ISE Diluted												
Beckman Synchron	16	109.9	1.9	1.7	110	104 - 116	16	97.5	1.7	1.8	98	92 - 103
Beckman Synchron LX/Pro/DxC	14	108.3	1.6	1.5	109	102 - 114	14	96.1	1.3	1.3	97	91 - 101
Olympus AU	18	109.3	1.3	1.2	109	103 - 115	18	95.4	1.2	1.3	96	90 - 101
Roche Integra	39	110.3	1.1	1.0	110	104 - 116	39	95.4	1.0	1.0	95	90 - 101
Siemens Dimension QuickLyte - RxL	12	112.5	2.6	2.3	113	106 - 119	12	94.4	1.2	1.3	95	89 - 100
Siemens Dimension QuickLyte -												
Xpand/EXL	32	112.4	2.0	1.8	113	106 - 118	32	95.8	1.4	1.5	96	90 - 101
Vital Diagnostics ATAC 8000	10	108.7	2.8	2.5	109	103 - 115	10	95.4	2.8	3.0	95	90 - 101
Vital Diagnostics Envoy 500	18	111.8	3.4	3.1	112	106 - 118	18	97.8	2.4	2.4	98	92 - 103
All Chemistry Instruments	192	110.4	2.2	2.0	110	104 - 116	190	95.7	1.8	1.8	96	90 - 101
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	66	109.8	1.4	1.2	110	104 - 116	66	94.7	1.5	1.5	95	89 - 100
Horiba ABX Pentra 400	12	108.8	3.0	2.8	109	103 - 115	12	94.6	1.8	1.9	95	89 - 100
All Chemistry Instruments	119	109.8	2.1	1.9	110	104 - 116	120	95.2	1.9	2.0	95	90 - 100
VITROS												
VITROS 250,350,500,700,750,950	43	107.6	1.6	1.5	108	102 - 114	42	95.0	1.2	1.3	95	90 - 100
All Chemistry Instruments	52	107.6	1.6	1.5	108	102 - 114	51	95.1	1.3	1.3	95	90 - 100

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	404	90.0	2.0	2.3	90	85 - 95	401	104.4	1.9	1.8	104	99 - 110
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	91	86 - 96	6	-	-	-	104	98 - 110
Abaxis Piccolo	16	91.0	2.5	2.8	91	86 - 96	15	103.9	2.8	2.7	104	98 - 110
All Chemistry Instruments	23	91.1	2.4	2.7	91	86 - 96	22	103.9	2.4	2.3	104	98 - 110
ISE Diluted												
Beckman Synchron	16	92.1	2.0	2.1	92	87 - 97	16	104.6	2.4	2.3	104	99 - 110
Beckman Synchron LX/PRO/DxC	14	90.9	1.2	1.3	91	86 - 96	14	103.9	1.8	1.7	104	98 - 110
Olympus AU	19	90.0	1.2	1.3	90	85 - 95	19	103.5	1.2	1.1	104	98 - 109
Roche Integra	39	89.5	1.0	1.2	89	85 - 95	39	104.5	1.1	1.0	104	99 - 110
Siemens Dimension QuickLyte - RxL	12	87.5	1.4	1.6	88	83 - 92	12	105.3	1.8	1.7	106	100 - 111
Siemens Dimension QuickLyte -												
Xpand/EXL	32	89.4	1.5	1.6	89	84 - 94	32	105.8	1.7	1.6	106	100 - 112
Vital Diagnostics ATAC 8000	10	90.6	2.3	2.6	91	86 - 96	10	105.0	2.1	2.0	105	99 - 111
Vital Diagnostics Envoy 500	18	93.4	2.2	2.4	94	88 - 99	18	108.2	2.3	2.2	108	102 - 114
All Chemistry Instruments	192	90.0	2.1	2.3	90	85 - 95	192	104.9	1.9	1.8	105	99 - 111
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	68	89.2	1.8	2.0	89	84 - 94	66	104.1	1.0	1.0	104	98 - 110
Horiba ABX Pentra 400	12	89.8	1.7	1.9	90	85 - 95	12	104.3	3.3	3.2	105	99 - 110
All Chemistry Instruments	122	89.8	2.2	2.4	90	85 - 95	121	104.3	1.9	1.8	104	99 - 110
VITROS												
VITROS 250,350,500,700,750,950	42	90.0	1.2	1.3	90	85 - 95	43	103.1	1.5	1.5	103	97 - 109
All Chemistry Instruments	51	90.0	1.2	1.4	90	85 - 95	52	103.2	1.5	1.4	103	98 - 109

Chloride (mmol/L)

Specimen CH-15

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	401	117.1	3.2	2.7	117	111 - 123
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	114	107 - 119
Abaxis Piccolo	17	113.2	2.7	2.4	113	107 - 119
All Chemistry Instruments	24	113.2	2.6	2.3	113	107 - 119
ISE Diluted						
Beckman Synchron	16	115.2	2.4	2.1	115	109 - 121
Beckman Synchron LX/Pro/DxC	14	113.9	1.9	1.7	114	108 - 120
Olympus AU	19	114.8	1.4	1.2	115	109 - 121
Roche Integra	38	117.5	1.4	1.1	117	111 - 124
Siemens Dimension QuickLyte - RxL	12	119.8	2.6	2.2	121	113 - 126
Siemens Dimension QuickLyte -						
Xpand/EXL	32	119.3	2.3	1.9	120	113 - 126
Vital Diagnostics ATAC 8000	10	117.0	4.7	4.0	117	111 - 123
Vital Diagnostics Envoy 500	17	121.8	3.2	2.6	122	115 - 128
All Chemistry Instruments	191	117.6	3.0	2.5	117	111 - 124
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	65	118.9	1.6	1.3	118	112 - 125
Horiba ABX Pentra 400	11	118.5	5.5	4.6	120	112 - 125
All Chemistry Instruments	119	118.3	3.2	2.7	118	112 - 125
VITROS						
VITROS 250,350,500,700,750,950	43	114.7	1.8	1.6	115	108 - 121
All Chemistry Instruments	52	114.7	1.7	1.5	115	108 - 121

CO₂ (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	407	29.5	2.3	7.8	30	22 - 37	405	21.7	1.9	8.9	22	15 - 28
Enzymatic Reagent												
Abaxis Piccolo - waived	13	29.7	0.9	3.2	30	26 - 33	13	21.0	0.7	3.4	21	18 - 24
Abaxis Piccolo	11	29.7	0.8	2.6	30	27 - 33	11	20.7	0.8	3.8	21	18 - 24
Alfa Wassermann ACE/NexCT/Alera	46	29.4	2.4	8.3	29	22 - 37	47	21.7	2.3	10.8	22	14 - 29
Horiba ABX Pentra 400	12	28.5	1.7	6.1	28	23 - 34	12	21.3	1.2	5.8	22	17 - 26
Olympus AU	18	29.9	1.6	5.2	30	25 - 35	18	21.9	1.5	6.6	22	17 - 27
Roche Integra	38	30.0	2.0	6.6	30	24 - 36	38	21.7	1.8	8.3	22	16 - 28
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	40	31.3	1.8	5.6	31	25 - 37	40	22.8	1.6	7.0	23	17 - 28
All Chemistry Instruments	214	29.9	2.1	7.1	30	23 - 37	214	21.7	1.9	8.6	22	16 - 28
ISE Diluted												
Beckman Synchron	16	29.4	4.3	14.7	31	16 - 43	16	21.9	3.4	15.6	23	11 - 33
Beckman Synchron LX/Pro/DxC	14	29.8	0.8	2.7	30	27 - 33	14	22.1	0.9	3.9	22	19 - 25
Vital Diagnostics ATAC 8000	10	27.8	1.2	4.4	28	24 - 32	10	20.8	1.2	5.9	21	17 - 25
Vital Diagnostics Envoy 500	17	27.1	2.4	8.7	27	20 - 35	16	18.9	2.2	11.9	19	12 - 26
All Chemistry Instruments	74	29.1	2.6	9.0	29	21 - 37	72	21.4	2.3	10.6	22	14 - 29
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	19	29.4	2.5	8.6	30	21 - 37	19	21.4	2.0	9.2	21	15 - 28
All Chemistry Instruments	45	29.2	2.6	9.0	29	21 - 38	46	21.6	2.2	10.1	21	15 - 29
VITROS												
VITROS 250,350,500,700,750,950	38	28.7	0.8	2.9	29	26 - 32	39	21.6	1.3	6.1	22	17 - 26
All Chemistry Instruments	48	28.4	1.2	4.4	29	24 - 33	47	21.5	1.3	5.9	22	17 - 26

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	430	6.25	0.16	2.6	6.3	5.7 - 6.8	424	4.47	0.11	2.4	4.5	3.9 - 5.0
Abaxis Piccolo												
Abaxis Piccolo - waived	18	6.36	0.24	3.7	6.4	5.8 - 6.9	19	4.63	0.15	3.2	4.6	4.1 - 5.2
Abaxis Piccolo	17	6.34	0.17	2.7	6.3	5.8 - 6.9	17	4.61	0.18	3.9	4.6	4.1 - 5.2
All Chemistry Instruments	37	6.35	0.20	3.2	6.3	5.8 - 6.9	38	4.62	0.16	3.4	4.6	4.1 - 5.2
ISE Diluted												
Beckman Synchron	15	6.27	0.19	3.0	6.3	5.7 - 6.8	15	4.43	0.13	3.0	4.4	3.9 - 5.0
Beckman Synchron LX/PRO/DxC	14	6.28	0.07	1.1	6.3	5.7 - 6.8	14	4.45	0.05	1.2	4.5	3.9 - 5.0
Olympus AU	19	6.19	0.10	1.6	6.2	5.6 - 6.7	19	4.45	0.06	1.4	4.4	3.9 - 5.0
Roche Integra	39	6.25	0.06	1.0	6.3	5.7 - 6.8	39	4.48	0.05	1.2	4.5	3.9 - 5.0
Siemens Dimension QuickLyte - RxL	13	6.19	0.08	1.2	6.2	5.6 - 6.7	13	4.39	0.08	1.7	4.4	3.8 - 4.9
Siemens Dimension QuickLyte -												
Xpand/EXL	32	6.29	0.07	1.2	6.3	5.7 - 6.8	32	4.48	0.06	1.2	4.5	3.9 - 5.0
Vital Diagnostics Envoy 500	19	5.95	0.11	1.8	6.0	5.4 - 6.5	19	4.24	0.09	2.1	4.2	3.7 - 4.8
All Chemistry Instruments	189	6.21	0.14	2.3	6.2	5.7 - 6.8	186	4.43	0.09	2.1	4.4	3.9 - 5.0
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	69	6.38	0.10	1.5	6.4	5.8 - 6.9	69	4.52	0.05	1.2	4.5	4.0 - 5.1
Horiba ABX Pentra 400	12	5.90	0.13	2.2	5.9	5.4 - 6.4	12	4.33	0.09	2.0	4.3	3.8 - 4.9
All Chemistry Instruments	132	6.27	0.20	3.1	6.3	5.7 - 6.8	131	4.47	0.10	2.3	4.5	3.9 - 5.0
VITROS												
VITROS 250,350,500,700,750,950	45	6.26	0.10	1.6	6.3	5.7 - 6.8	45	4.52	0.08	1.7	4.5	4.0 - 5.1
All Chemistry Instruments	59	6.26	0.11	1.7	6.3	5.7 - 6.8	57	4.52	0.08	1.7	4.5	4.0 - 5.1

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	413	3.35	0.10	2.8	3.4	2.8 - 3.9	417	5.13	0.12	2.3	5.1	4.6 - 5.7
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	3.4	2.9 - 4.0	7	-	-	-	5.3	4.7 - 5.8
Abaxis Piccolo	16	3.50	0.12	3.3	3.5	3.0 - 4.0	16	5.25	0.14	2.7	5.2	4.7 - 5.8
All Chemistry Instruments	25	3.47	0.13	3.9	3.5	2.9 - 4.0	25	5.27	0.14	2.6	5.2	4.7 - 5.8
ISE Diluted												
Beckman Synchron	15	3.32	0.11	3.5	3.3	2.8 - 3.9	15	5.11	0.13	2.6	5.1	4.6 - 5.7
Beckman Synchron LX/PRO/DxC	12	3.30	0.00	0.0	3.3	2.8 - 3.8	14	5.15	0.07	1.3	5.2	4.6 - 5.7
Olympus AU	19	3.36	0.07	2.0	3.4	2.8 - 3.9	19	5.11	0.05	1.0	5.1	4.6 - 5.7
Roche Integra	38	3.36	0.06	1.6	3.4	2.8 - 3.9	39	5.13	0.05	1.0	5.1	4.6 - 5.7
Siemens Dimension QuickLyte - RxL	13	3.26	0.07	2.0	3.3	2.7 - 3.8	13	5.06	0.07	1.3	5.1	4.5 - 5.6
Siemens Dimension QuickLyte -												
Xpand/EXL	32	3.32	0.05	1.6	3.3	2.8 - 3.9	32	5.14	0.06	1.1	5.1	4.6 - 5.7
Vital Diagnostics Envoy 500	19	3.15	0.10	3.2	3.2	2.6 - 3.7	19	4.90	0.09	1.9	4.9	4.4 - 5.4
All Chemistry Instruments	184	3.31	0.08	2.4	3.3	2.8 - 3.9	189	5.09	0.10	2.0	5.1	4.5 - 5.6
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	70	3.37	0.07	2.2	3.4	2.8 - 3.9	69	5.19	0.06	1.1	5.2	4.6 - 5.7
Horiba ABX Pentra 400	12	3.33	0.08	2.3	3.4	2.8 - 3.9	12	4.97	0.11	2.2	5.0	4.4 - 5.5
All Chemistry Instruments	132	3.34	0.09	2.6	3.4	2.8 - 3.9	131	5.12	0.12	2.3	5.2	4.6 - 5.7
VITROS												
VITROS 250,350,500,700,750,950	45	3.44	0.06	1.7	3.4	2.9 - 4.0	45	5.20	0.09	1.6	5.2	4.7 - 5.8
All Chemistry Instruments	59	3.43	0.06	1.8	3.4	2.9 - 4.0	58	5.21	0.09	1.7	5.2	4.7 - 5.8

Potassium (mmol/L)

Specimen CH-15

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	417	5.39	0.15	2.9	5.4	4.8 - 5.9
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	5.6	5.0 - 6.1
Abaxis Piccolo	16	5.54	0.14	2.5	5.5	5.0 - 6.1
All Chemistry Instruments	25	5.54	0.14	2.6	5.6	5.0 - 6.1
ISE Diluted						
Beckman Synchron	15	5.34	0.14	2.6	5.3	4.8 - 5.9
Beckman Synchron LX/Pro/DxC	14	5.38	0.06	1.1	5.4	4.8 - 5.9
Olympus AU	19	5.32	0.06	1.1	5.3	4.8 - 5.9
Roche Integra	39	5.31	0.05	0.9	5.3	4.8 - 5.9
Siemens Dimension QuickLyte - RxL	13	5.27	0.08	1.4	5.3	4.7 - 5.8
Siemens Dimension QuickLyte -						
Xpand/EXL	32	5.33	0.08	1.4	5.3	4.8 - 5.9
Vital Diagnostics Envoy 500	18	5.11	0.13	2.5	5.1	4.6 - 5.7
All Chemistry Instruments	186	5.30	0.10	1.9	5.3	4.8 - 5.8
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	71	5.53	0.08	1.5	5.5	5.0 - 6.1
Horiba ABX Pentra 400	12	5.24	0.10	1.9	5.2	4.7 - 5.8
All Chemistry Instruments	132	5.43	0.16	2.9	5.5	4.9 - 6.0
VITROS						
VITROS 250,350,500,700,750,950	45	5.52	0.08	1.5	5.5	5.0 - 6.1
All Chemistry Instruments	58	5.52	0.10	1.8	5.5	5.0 - 6.1

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-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	420	142.4	2.5	1.7	142	138 - 147	422	129.1	2.2	1.7	129	125 - 134
Abaxis Piccolo												
Abaxis Piccolo - waived	18	147.5	1.8	1.2	148	143 - 152	18	131.9	2.6	1.9	132	127 - 136
Abaxis Piccolo	18	148.2	2.6	1.8	148	144 - 153	17	133.2	1.7	1.3	134	129 - 138
All Chemistry Instruments	38	147.9	2.2	1.5	148	143 - 152	37	132.6	2.2	1.7	133	128 - 137
ISE Diluted												
Beckman Synchron	15	143.8	1.4	1.0	144	139 - 148	15	130.0	1.9	1.5	130	126 - 134
Beckman Synchron LX/Pro/DxC	13	142.8	0.8	0.6	143	138 - 147	13	130.4	1.0	0.8	130	126 - 135
Olympus AU	17	141.6	1.6	1.1	141	137 - 146	17	128.8	1.6	1.2	128	124 - 133
Roche Integra	39	140.7	1.5	1.1	141	136 - 145	38	128.0	1.2	0.9	128	123 - 132
Siemens Dimension QuickLyte - RxL	13	140.8	2.2	1.6	141	136 - 145	13	127.7	1.8	1.4	128	123 - 132
Siemens Dimension QuickLyte -												
Xpand/EXL	32	143.1	1.3	0.9	143	139 - 148	32	130.4	1.5	1.1	130	126 - 135
Vital Diagnostics Envoy 500	17	140.5	1.5	1.0	140	136 - 145	17	128.5	2.0	1.5	128	124 - 133
All Chemistry Instruments	183	141.8	1.9	1.3	142	137 - 146	184	129.0	1.8	1.4	129	124 - 133
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	68	141.2	1.2	0.9	141	137 - 146	69	127.0	1.1	0.8	127	122 - 131
Horiba ABX Pentra 400	12	140.6	1.6	1.1	141	136 - 145	12	128.6	1.2	0.9	129	124 - 133
All Chemistry Instruments	133	141.5	1.9	1.3	141	137 - 146	133	127.9	1.7	1.3	128	123 - 132
VITROS												
VITROS 250,350,500,700,750,950	46	143.3	1.8	1.2	143	139 - 148	46	130.3	1.3	1.0	130	126 - 135
All Chemistry Instruments	54	143.4	1.8	1.3	143	139 - 148	53	130.4	1.4	1.0	130	126 - 135

Sodium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	412	124.9	2.2	1.7	125	120 - 129	415	138.2	2.3	1.7	138	134 - 143
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	128	123 - 132	6	-	-	-	143	138 - 147
Abaxis Piccolo	17	127.6	2.0	1.5	128	123 - 132	17	142.6	2.4	1.7	143	138 - 147
All Chemistry Instruments	25	127.6	2.0	1.6	128	123 - 132	25	142.5	2.2	1.5	143	138 - 147
ISE Diluted												
Beckman Synchron	15	125.6	1.6	1.3	125	121 - 130	15	138.7	1.8	1.3	139	134 - 143
Beckman Synchron LX/Pro/DxC	13	126.2	1.6	1.3	126	122 - 131	13	139.2	1.0	0.7	139	135 - 144
Olympus AU	17	124.6	1.6	1.3	124	120 - 129	17	137.5	1.3	1.0	137	133 - 142
Roche Integra	39	123.4	1.6	1.3	123	119 - 128	38	136.2	1.2	0.9	136	132 - 141
Siemens Dimension QuickLyte - RxL	13	123.9	2.1	1.7	124	119 - 128	13	136.6	1.8	1.3	137	132 - 141
Siemens Dimension QuickLyte -												
Xpand/EXL	32	126.2	1.3	1.1	126	122 - 131	32	138.9	1.5	1.1	139	134 - 143
Vital Diagnostics Envoy 500	17	122.8	2.2	1.8	123	118 - 127	17	137.3	2.1	1.5	138	133 - 142
All Chemistry Instruments	183	124.6	2.0	1.6	125	120 - 129	185	137.7	1.9	1.4	138	133 - 142
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	68	123.1	1.1	0.9	123	119 - 128	70	137.0	1.1	0.8	137	132 - 141
Horiba ABX Pentra 400	12	125.3	0.8	0.6	125	121 - 130	12	137.8	1.4	1.0	138	133 - 142
All Chemistry Instruments	134	123.9	1.6	1.3	124	119 - 128	133	137.3	1.5	1.1	137	133 - 142
VITROS												
VITROS 250,350,500,700,750,950	46	126.9	1.5	1.1	127	122 - 131	46	140.2	1.7	1.2	140	136 - 145
All Chemistry Instruments	54	127.0	1.6	1.2	127	123 - 132	54	140.3	1.7	1.2	140	136 - 145

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	413	152.8	3.5	2.3	152	148 - 157
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	159	153 - 162
Abaxis Piccolo	16	157.7	2.2	1.4	157	153 - 162
All Chemistry Instruments	24	157.8	2.1	1.3	158	153 - 162
ISE Diluted						
Beckman Synchron	15	151.8	1.7	1.1	152	147 - 156
Beckman Synchron LX/Pro/DxC	13	151.7	0.9	0.6	151	147 - 156
Olympus AU	17	150.1	1.2	0.8	150	146 - 155
Roche Integra	37	148.8	1.4	1.0	149	144 - 153
Siemens Dimension QuickLyte - RxL	13	148.5	2.1	1.4	148	144 - 153
Siemens Dimension QuickLyte -						
Xpand/EXL	32	151.2	1.6	1.1	151	147 - 156
Vital Diagnostics Envoy 500	17	150.6	1.8	1.2	151	146 - 155
All Chemistry Instruments	184	150.4	2.1	1.4	150	146 - 155
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	71	154.6	2.0	1.3	155	150 - 159
Horiba ABX Pentra 400	12	153.8	1.4	0.9	154	149 - 158
All Chemistry Instruments	133	153.6	2.5	1.6	154	149 - 158
VITROS						
VITROS 250,350,500,700,750,950	45	156.9	1.7	1.1	157	152 - 161
All Chemistry Instruments	54	157.3	2.1	1.3	157	153 - 162

TIBC – Calculated (µg/dL)

Specimen CH-11							Specimen CH-12					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	164.0	34.1	20.8	180	61 - 267	30	161.1	35.2	21.8	179	55 - 267
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	30	164.0	34.1	20.8	180	61 - 267	30	161.1	35.2	21.8	179	55 - 267
Specimen CH-13							Specimen CH-14					
All Method	30	188.1	43.7	23.2	210	57 - 320	30	192.4	49.7	25.8	210	43 - 342
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	30	188.1	43.7	23.2	210	57 - 320	30	192.4	49.7	25.8	210	43 - 342
Specimen CH-15												
All Method	30	275.0	55.2	20.1	297	109 - 441						
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	30	275.0	55.2	20.1	297	109 - 441						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	52	170.2	39.2	23.0	154	52 - 288	52	165.8	32.4	19.5	155	68 - 263
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	22	142.9	13.0	9.1	143	103 - 182	22	141.4	11.1	7.8	142	108 - 175
All Chemistry Instruments	23	143.3	12.9	9.0	143	104 - 182	23	141.8	11.0	7.7	142	108 - 175
VITROS												
VITROS 250,350,500,700,750,950	10	233.0	22.5	9.6	238	165 - 301	10	215.2	18.7	8.7	213	159 - 272
All Chemistry Instruments	14	205.4	49.3	24.0	226	57 - 354	14	193.5	39.1	20.2	207	76 - 311
<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	52	194.2	39.8	20.5	176	74 - 314	51	193.1	39.6	20.5	176	74 - 313
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	22	167.1	11.9	7.1	168	131 - 203	22	171.0	13.5	7.9	172	130 - 212
All Chemistry Instruments	23	167.4	11.8	7.0	168	132 - 203	23	171.2	13.3	7.8	172	131 - 212
VITROS												
VITROS 250,350,500,700,750,950	10	257.5	21.4	8.3	256	193 - 322	10	264.9	31.7	12.0	252	169 - 360
All Chemistry Instruments	14	229.8	49.1	21.4	249	82 - 378	14	231.0	61.8	26.8	252	45 - 417
<u>Method/Instrument</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	52	282.4	76.7	27.2	265	52 - 513						
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	21	255.9	16.0	6.2	253	207 - 304						
All Chemistry Instruments	22	256.2	15.6	6.1	256	209 - 304						
VITROS												
VITROS 250,350,500,700,750,950	10	408.4	29.4	7.2	423	320 - 497						
All Chemistry Instruments	14	338.8	117.0	34.5	382	0 - 690						

UIBC – Direct (µg/dL)

	Specimen CH-11						Specimen CH-12					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	38	74.0	7.4	10.0	74	51 - 97	38	58.2	7.7	13.2	60	35 - 82
All Roche Integra/c 501 reagents	14	75.1	7.2	9.6	74	53 - 97	14	58.1	7.7	13.3	58	34 - 82
Olympus												
Olympus AU	10	76.6	3.7	4.8	77	65 - 88	10	61.4	3.3	5.4	62	51 - 72
Roche Integra												
Roche Integra	13	75.9	6.8	8.9	74	55 - 97	13	58.7	7.8	13.2	58	35 - 83
Specimen CH-13						Specimen CH-14						
All Method	38	55.0	7.2	13.1	57	33 - 77	37	69.8	7.2	10.3	70	48 - 92
All Roche Integra/c 501 reagents	14	53.9	8.3	15.5	54	28 - 79	13	71.1	7.9	11.1	69	47 - 95
Olympus												
Olympus AU	10	59.1	2.1	3.5	59	52 - 66	10	73.2	4.2	5.7	74	60 - 86
Roche Integra												
Roche Integra	13	54.3	8.6	15.8	54	28 - 80	12	71.9	7.6	10.6	70	49 - 95
Specimen CH-15												
All Method	36	87.6	8.0	9.2	89	63 - 112						
All Roche Integra/c 501 reagents	12	87.1	6.7	7.7	87	66 - 108						
Olympus												
Olympus AU	10	95.3	4.3	4.6	95	82 - 109						
Roche Integra												
Roche Integra	11	87.4	7.0	8.0	87	66 - 109						

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	436	49.7	7.2	14.4	47	39 - 60	428	144.4	12.7	8.8	144	115 - 174
All Roche Integra/c111/c501												
Reagents	51	46.3	2.0	4.4	46	37 - 56	51	148.4	6.3	4.2	147	118 - 179
Abaxis Piccolo												
Abaxis Piccolo - waived	20	45.7	3.2	7.0	46	36 - 55	20	130.9	4.5	3.4	132	104 - 158
Abaxis Piccolo	19	45.6	2.8	6.1	45	36 - 55	19	129.2	5.7	4.4	130	103 - 156
All Chemistry Instruments	39	45.6	3.0	6.5	46	36 - 55	39	130.1	5.1	3.9	130	104 - 157
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	71	45.1	2.7	6.1	45	36 - 55	72	132.6	5.5	4.2	134	106 - 160
All Chemistry Instruments	72	45.0	2.7	6.1	45	36 - 55	73	132.5	5.5	4.2	134	106 - 160
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	18	46.7	1.9	4.0	47	37 - 57	18	141.5	3.6	2.6	142	113 - 170
All Chemistry Instruments	27	46.0	2.1	4.7	46	36 - 56	27	139.4	4.8	3.4	140	111 - 168
Carolina Liquid Chemistries												
All Chemistry Instruments	10	44.5	1.8	4.1	45	35 - 54	10	139.8	4.9	3.5	142	111 - 168
Cholestech LDX												
All Chemistry Instruments	10	56.9	5.7	10.0	57	45 - 69	10	189.0	20.1	10.7	192	151 - 227
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	50.4	1.5	3.1	50	40 - 61	19	157.5	5.6	3.6	157	125 - 189
Olympus												
Olympus AU	22	40.6	1.5	3.8	41	32 - 49	22	127.8	3.8	2.9	129	102 - 154
Roche Integra												
Roche Integra	43	46.2	2.1	4.4	46	36 - 56	43	148.8	6.4	4.3	147	119 - 179
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	59.5	1.9	3.2	60	47 - 72	62	157.7	4.2	2.6	157	126 - 190
All Chemistry Instruments	62	59.5	1.9	3.1	60	47 - 72	63	157.7	4.1	2.6	157	126 - 190
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	45.3	2.7	6.0	46	36 - 55	16	141.0	5.8	4.1	141	112 - 170
Vital Diagnostics Envoy 500	20	48.4	1.7	3.5	48	38 - 59	20	153.1	4.7	3.1	154	122 - 184
All Chemistry Instruments	36	47.0	2.7	5.7	47	37 - 57	36	147.7	7.9	5.4	148	118 - 178
VITROS												
VITROS 250,350,500,700,750,950	45	59.3	3.5	5.9	60	47 - 72	45	156.6	4.6	2.9	157	125 - 188
All Chemistry Instruments	53	59.6	3.7	6.1	60	47 - 72	53	156.7	4.7	3.0	157	125 - 189

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	411	202.8	16.1	7.9	206	162 - 244	413	106.2	9.5	9.0	105	84 - 128
All Roche Integra/c111/c501												
Reagents	51	211.0	8.7	4.1	210	168 - 254	51	106.8	4.5	4.2	106	85 - 129
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	183	145 - 219	8	-	-	-	100	77 - 116
Abaxis Piccolo	18	181.3	5.1	2.8	182	145 - 218	18	95.2	3.9	4.1	96	76 - 115
All Chemistry Instruments	26	182.0	4.9	2.7	183	145 - 219	26	96.6	4.4	4.5	97	77 - 116
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	71	186.0	7.1	3.8	187	148 - 224	73	98.1	3.9	4.0	99	78 - 118
All Chemistry Instruments	72	185.8	7.2	3.9	187	148 - 223	74	98.0	3.9	4.0	99	78 - 118
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	18	200.1	5.4	2.7	202	160 - 241	18	103.6	2.9	2.8	104	82 - 125
All Chemistry Instruments	27	197.1	7.1	3.6	197	157 - 237	27	101.9	3.7	3.7	103	81 - 123
Carolina Liquid Chemistries												
All Chemistry Instruments	10	198.6	7.6	3.8	202	158 - 239	10	101.3	3.9	3.9	103	81 - 122
Cholestech LDX												
All Chemistry Instruments	3	-	-	-	305	Not graded	3	-	-	-	136	Not graded
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	221.8	7.3	3.3	221	177 - 267	19	113.7	3.5	3.1	114	90 - 137
Olympus												
Olympus AU	22	181.4	4.7	2.6	182	145 - 218	22	92.7	2.7	3.0	93	74 - 112
Roche Integra												
Roche Integra	43	211.6	9.1	4.3	210	169 - 254	43	107.0	4.6	4.3	105	85 - 129
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	62	216.7	4.5	2.1	217	173 - 261	61	118.8	2.8	2.3	119	95 - 143
All Chemistry Instruments	63	216.8	4.5	2.1	217	173 - 261	62	118.8	2.7	2.3	119	95 - 143
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	201.1	8.4	4.2	202	160 - 242	16	102.6	4.3	4.2	103	82 - 124
Vital Diagnostics Envoy 500	19	216.3	5.6	2.6	216	173 - 260	20	111.2	3.7	3.3	112	88 - 134
All Chemistry Instruments	35	209.3	10.4	4.9	209	167 - 252	36	107.4	5.8	5.4	107	85 - 129
VITROS												
VITROS 250,350,500,700,750,950	45	216.1	5.7	2.6	216	172 - 260	45	115.2	4.3	3.7	115	92 - 139
All Chemistry Instruments	53	216.5	5.8	2.7	217	173 - 260	53	115.5	4.3	3.8	116	92 - 139

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

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	414	85.9	8.6	10.0	85	68 - 104
All Roche Integra/c111/c501						
Reagents	51	84.7	3.6	4.2	84	67 - 102
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	82	63 - 96
Abaxis Piccolo	18	78.8	4.4	5.6	78	63 - 95
All Chemistry Instruments	26	79.6	4.2	5.2	79	63 - 96
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	72	78.3	3.3	4.2	78	62 - 94
All Chemistry Instruments	73	78.2	3.3	4.2	78	62 - 94
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	18	83.2	2.7	3.2	83	66 - 100
All Chemistry Instruments	27	82.0	3.0	3.7	82	65 - 99
Carolina Liquid Chemistries						
All Chemistry Instruments	10	81.4	3.1	3.9	82	65 - 98
Cholestech LDX						
All Chemistry Instruments	3	-	-	-	109	Not graded
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	90.9	3.7	4.1	90	72 - 110
Olympus						
Olympus AU	22	74.2	2.8	3.7	75	59 - 90
Roche Integra						
Roche Integra	43	84.7	3.7	4.3	84	67 - 102
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	62	99.0	2.9	2.9	99	79 - 119
All Chemistry Instruments	63	99.0	2.9	2.9	99	79 - 119
Vital Diagnostics						
Vital Diagnostics ATAC 8000	16	82.4	4.0	4.9	83	65 - 99
Vital Diagnostics Envoy 500	20	90.1	3.0	3.4	91	72 - 109
All Chemistry Instruments	36	86.7	5.2	6.0	86	69 - 105
VITROS						
VITROS 250,350,500,700,750,950	45	92.4	3.3	3.6	92	73 - 111
All Chemistry Instruments	53	92.6	3.4	3.7	92	74 - 112

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	422	60.6	8.9	14.8	61	42 - 79	422	217.7	30.7	14.1	224	152 - 283
All Roche Integra/c111/c501												
Reagents	51	59.7	2.3	3.9	59	41 - 78	51	221.9	8.3	3.7	221	155 - 289
Abaxis Piccolo												
Abaxis Piccolo - waived	20	49.3	6.9	13.9	51	34 - 65	20	173.6	10.9	6.3	175	121 - 226
Abaxis Piccolo	19	45.4	3.9	8.5	44	31 - 59	19	174.4	6.6	3.8	176	122 - 227
All Chemistry Instruments	39	47.4	5.9	12.4	47	33 - 62	39	174.0	9.0	5.1	176	121 - 227
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	71	64.9	4.3	6.7	65	45 - 85	71	236.0	14.3	6.1	237	165 - 307
All Chemistry Instruments	72	64.9	4.3	6.6	65	45 - 85	72	235.9	14.2	6.0	237	165 - 307
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	18	57.6	2.5	4.4	58	40 - 75	18	208.6	9.8	4.7	208	145 - 272
All Chemistry Instruments	25	57.7	2.6	4.4	58	40 - 76	26	205.9	10.6	5.1	208	144 - 268
Carolina Liquid Chemistries												
Beckman Synchron	10	55.4	3.0	5.4	56	38 - 73	10	199.4	9.8	4.9	201	139 - 260
All Chemistry Instruments	12	55.1	4.3	7.7	56	38 - 72	12	196.8	13.6	6.9	201	137 - 256
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	68.1	4.8	7.1	68	47 - 89	19	251.3	13.5	5.4	251	175 - 327
Olympus												
Olympus AU	21	58.5	4.7	8.0	60	40 - 77	20	211.9	11.1	5.2	214	148 - 276
Roche Integra												
Roche Integra	43	59.6	2.0	3.3	59	41 - 78	43	221.3	7.2	3.3	221	154 - 288
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	72.1	6.0	8.3	72	50 - 94	62	251.9	12.9	5.1	248	176 - 328
All Chemistry Instruments	61	72.2	6.0	8.3	72	50 - 94	63	252.0	12.8	5.1	248	176 - 328
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	64.9	6.2	9.6	64	45 - 85	16	235.1	14.5	6.2	231	164 - 306
Vital Diagnostics Envoy 500	20	63.6	2.9	4.6	64	44 - 83	19	228.5	10.0	4.4	229	159 - 298
All Chemistry Instruments	36	64.1	4.7	7.3	64	44 - 84	35	231.5	12.5	5.4	229	162 - 301
VITROS												
VITROS 250,350,500,700,750,950	45	49.6	2.9	5.7	50	34 - 65	45	169.1	7.1	4.2	170	118 - 220
All Chemistry Instruments	53	50.2	3.1	6.2	50	35 - 66	53	169.8	7.3	4.3	170	118 - 221

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	408	306.1	42.9	14.0	314	214 - 398	411	149.8	20.3	13.6	152	104 - 195
All Roche Integra/c111/c501												
Reagents	51	312.4	11.3	3.6	311	218 - 407	51	150.4	5.4	3.6	150	105 - 196
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	249	171 - 319	8	-	-	-	120	80 - 151
Abaxis Piccolo	16	242.8	10.3	4.2	245	169 - 316	18	114.2	4.3	3.8	115	79 - 149
All Chemistry Instruments	24	245.1	10.5	4.3	245	171 - 319	25	115.6	4.7	4.1	116	80 - 151
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	72	327.9	22.4	6.8	330	229 - 427	72	160.0	11.1	6.9	161	111 - 208
All Chemistry Instruments	73	327.8	22.3	6.8	330	229 - 427	73	159.9	11.0	6.9	161	111 - 208
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	18	291.3	12.7	4.4	293	203 - 379	18	142.4	6.1	4.3	143	99 - 186
All Chemistry Instruments	26	288.0	15.4	5.3	292	201 - 375	26	140.3	7.4	5.3	141	98 - 183
Carolina Liquid Chemistries												
Beckman Synchron	10	278.2	13.7	4.9	278	194 - 362	10	141.0	18.3	13.0	137	98 - 184
All Chemistry Instruments	12	275.4	19.4	7.0	278	192 - 359	12	138.8	18.6	13.4	137	97 - 181
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	350.6	19.1	5.4	348	245 - 456	19	171.9	9.5	5.5	172	120 - 224
Olympus												
Olympus AU	20	295.1	16.4	5.6	296	206 - 384	20	144.0	8.0	5.6	145	100 - 188
Roche Integra												
Roche Integra	43	312.0	10.0	3.2	311	218 - 406	43	150.1	4.7	3.1	149	105 - 196
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	62	352.4	16.5	4.7	350	246 - 459	62	172.8	10.2	5.9	171	120 - 225
All Chemistry Instruments	63	352.8	16.7	4.7	350	246 - 459	63	173.0	10.2	5.9	171	121 - 225
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	325.8	22.6	7.0	323	228 - 424	16	157.8	10.7	6.8	156	110 - 206
Vital Diagnostics Envoy 500	20	321.5	15.7	4.9	324	225 - 418	20	156.0	6.5	4.2	156	109 - 203
All Chemistry Instruments	36	323.4	18.9	5.9	323	226 - 421	36	156.8	8.5	5.5	156	109 - 204
VITROS												
VITROS 250,350,500,700,750,950	44	232.0	9.7	4.2	234	162 - 302	43	119.9	3.8	3.2	120	83 - 156
All Chemistry Instruments	52	232.1	9.6	4.1	234	162 - 302	52	120.7	4.4	3.7	121	84 - 157

Alkaline Phosphatase (IU/L)

Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	411	101.8	13.8	13.5	103	71 - 133
All Roche Integra/c111/c501						
Reagents	51	99.6	3.5	3.5	99	69 - 130
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	78	52 - 98
Abaxis Piccolo	18	74.4	4.8	6.5	75	52 - 97
All Chemistry Instruments	25	75.2	4.6	6.1	75	52 - 98
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	72	106.8	8.3	7.7	109	74 - 139
All Chemistry Instruments	73	106.8	8.2	7.7	108	74 - 139
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	18	97.3	5.0	5.1	98	68 - 127
All Chemistry Instruments	26	96.2	5.7	5.9	98	67 - 126
Carolina Liquid Chemistries						
Beckman Synchron	10	91.7	4.2	4.6	92	64 - 120
All Chemistry Instruments	12	90.7	5.8	6.4	92	63 - 118
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	114.9	7.5	6.6	113	80 - 150
Olympus						
Olympus AU	21	96.3	7.1	7.4	98	67 - 126
Roche Integra						
Roche Integra	43	99.3	3.1	3.2	99	69 - 130
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	62	119.3	8.2	6.9	119	83 - 156
All Chemistry Instruments	63	119.4	8.1	6.8	119	83 - 156
Vital Diagnostics						
Vital Diagnostics ATAC 8000	16	107.6	10.7	9.9	109	75 - 140
Vital Diagnostics Envoy 500	20	106.7	4.7	4.4	108	74 - 139
All Chemistry Instruments	36	107.1	7.8	7.3	108	74 - 140
VITROS						
VITROS 250,350,500,700,750,950	45	86.8	3.8	4.4	87	60 - 113
All Chemistry Instruments	53	87.3	4.0	4.5	88	61 - 114

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	435	42.7	9.3	21.7	40	34 - 52	428	131.8	20.8	15.8	125	105 - 159
All Roche Integra/c111/c501 Reagents	51	36.0	3.1	8.6	36	28 - 44	51	123.2	8.7	7.1	124	98 - 148
Abaxis Piccolo												
Abaxis Piccolo - waived	20	41.3	2.8	6.7	42	33 - 50	20	122.3	5.9	4.8	123	97 - 147
Abaxis Piccolo	19	40.2	3.1	7.7	41	32 - 49	19	122.1	7.9	6.5	124	97 - 147
All Chemistry Instruments	39	40.7	2.9	7.2	41	32 - 49	39	122.2	6.9	5.6	123	97 - 147
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	73	38.6	2.6	6.8	39	30 - 47	73	121.7	6.8	5.6	124	97 - 147
All Chemistry Instruments	74	38.6	2.6	6.8	39	30 - 47	74	121.6	6.8	5.6	124	97 - 146
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	18	36.4	1.6	4.3	37	29 - 44	18	119.6	4.7	3.9	121	95 - 144
All Chemistry Instruments	27	35.4	2.6	7.3	36	28 - 43	27	116.9	7.6	6.5	118	93 - 141
Carolina Liquid Chemistries												
All Chemistry Instruments	10	38.8	3.6	9.3	39	31 - 47	10	125.4	8.9	7.1	128	100 - 151
Cholestech LDX												
All Chemistry Instruments	11	61.1	6.9	11.2	60	48 - 74	10	200.1	13.0	6.5	201	160 - 241
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	38.3	3.2	8.3	38	30 - 46	19	121.3	6.5	5.3	122	97 - 146
Olympus												
Olympus AU	23	32.7	2.0	6.2	33	26 - 40	23	108.0	5.7	5.3	108	86 - 130
Roche Integra												
Roche Integra	43	35.9	3.2	8.8	35	28 - 44	43	123.1	9.1	7.4	125	98 - 148
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	62	57.4	2.5	4.4	57	45 - 69	62	165.5	4.9	2.9	165	132 - 199
All Chemistry Instruments	63	57.4	2.5	4.3	57	45 - 69	63	165.5	4.8	2.9	165	132 - 199
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	35.1	3.5	9.9	35	28 - 43	16	112.6	9.8	8.7	115	90 - 136
Vital Diagnostics Envoy 500	20	36.4	3.2	8.7	37	29 - 44	20	122.8	8.3	6.7	123	98 - 148
All Chemistry Instruments	36	35.8	3.3	9.3	36	28 - 43	36	118.3	10.3	8.7	119	94 - 142
VITROS												
VITROS 250,350,500,700,750,950	45	53.6	2.2	4.1	54	42 - 65	45	155.4	6.1	3.9	154	124 - 187
All Chemistry Instruments	53	53.6	2.2	4.1	54	42 - 65	53	155.8	6.2	4.0	155	124 - 187

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	410	190.3	25.6	13.5	182	152 - 229	413	93.8	17.3	18.4	88	75 - 113
All Roche Integra/c111/c501 Reagents	51	181.8	12.0	6.6	182	145 - 219	51	85.1	6.5	7.6	85	68 - 103
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	180	141 - 212	8	-	-	-	89	69 - 104
Abaxis Piccolo	18	176.3	10.1	5.8	180	141 - 212	18	86.4	5.0	5.7	87	69 - 104
All Chemistry Instruments	26	176.5	9.6	5.4	180	141 - 212	26	86.5	5.0	5.7	87	69 - 104
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	73	178.0	10.0	5.6	179	142 - 214	73	85.7	5.8	6.7	86	68 - 103
All Chemistry Instruments	74	177.9	10.0	5.6	179	142 - 214	74	85.7	5.8	6.7	86	68 - 103
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	18	174.6	6.5	3.7	175	139 - 210	18	83.3	4.2	5.0	84	66 - 100
All Chemistry Instruments	27	171.1	9.6	5.6	173	136 - 206	27	81.3	5.4	6.6	82	65 - 98
Carolina Liquid Chemistries												
All Chemistry Instruments	10	184.9	13.2	7.1	185	147 - 222	10	86.8	6.8	7.9	87	69 - 105
Cholestech LDX												
All Chemistry Instruments	3	-	-	-	318	Not graded	3	-	-	-	144	Not graded
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	177.2	9.3	5.3	176	141 - 213	19	85.0	5.2	6.2	85	68 - 102
Olympus												
Olympus AU	23	159.0	7.6	4.8	158	127 - 191	22	75.6	4.7	6.2	77	60 - 91
Roche Integra												
Roche Integra	43	181.4	12.2	6.7	182	145 - 218	43	84.7	6.5	7.7	85	67 - 102
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	62	230.5	6.0	2.6	230	184 - 277	62	122.2	3.8	3.1	122	97 - 147
All Chemistry Instruments	63	230.5	6.0	2.6	230	184 - 277	63	122.2	3.8	3.1	122	97 - 147
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	167.0	13.2	7.9	172	133 - 201	16	80.5	7.2	8.9	82	64 - 97
Vital Diagnostics Envoy 500	19	178.5	10.1	5.7	178	142 - 215	20	85.0	6.1	7.1	86	68 - 102
All Chemistry Instruments	35	173.2	12.8	7.4	174	138 - 208	36	83.0	6.9	8.3	83	66 - 100
VITROS												
VITROS 250,350,500,700,750,950	45	222.5	8.3	3.7	224	178 - 268	45	113.6	4.9	4.3	115	90 - 137
All Chemistry Instruments	53	222.1	8.1	3.6	224	177 - 267	53	113.8	5.0	4.4	115	91 - 137

AST (SGOT) (IU/L)
Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	413	73.4	15.6	21.3	68	58 - 89
All Roche Integra/c111/c501 Reagents	51	64.5	5.2	8.1	65	51 - 78
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	70	54 - 82
Abaxis Piccolo	18	68.0	5.3	7.7	69	54 - 82
All Chemistry Instruments	26	68.2	5.1	7.4	70	54 - 82
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	73	64.5	4.7	7.3	65	51 - 78
All Chemistry Instruments	74	64.5	4.7	7.3	65	51 - 78
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	18	64.9	3.4	5.2	66	51 - 78
All Chemistry Instruments	27	63.4	4.5	7.1	64	50 - 77
Carolina Liquid Chemistries						
All Chemistry Instruments	10	67.4	4.9	7.3	68	53 - 81
Cholestech LDX						
All Chemistry Instruments	3	-	-	-	117	Not graded
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	64.5	4.8	7.5	64	51 - 78
Olympus						
Olympus AU	23	57.9	3.4	5.9	58	46 - 70
Roche Integra						
Roche Integra	43	64.1	5.3	8.3	65	51 - 77
Siemens (Dade) Healthcare Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	61	100.2	3.1	3.1	100	80 - 121
All Chemistry Instruments	62	100.2	3.1	3.1	100	80 - 121
Vital Diagnostics						
Vital Diagnostics ATAC 8000	16	60.9	5.8	9.5	60	48 - 74
Vital Diagnostics Envoy 500	20	65.9	5.3	8.0	65	52 - 80
All Chemistry Instruments	36	63.7	6.0	9.3	64	50 - 77
VITROS						
VITROS 250,350,500,700,750,950	45	91.4	3.7	4.0	92	73 - 110
All Chemistry Instruments	53	91.5	3.6	4.0	92	73 - 110

Creatine Kinase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	199	161.3	15.8	9.8	164	112 - 210	198	99.0	8.5	8.6	99	69 - 129
All Roche Integra/c111/c501												
Reagents	24	164.8	8.6	5.2	165	115 - 215	24	100.4	4.6	4.5	100	70 - 131
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	32	164.0	7.8	4.8	164	114 - 214	32	102.8	5.9	5.7	102	71 - 134
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	11	187.5	6.3	3.4	187	131 - 244	11	114.3	3.7	3.2	114	79 - 149
All Chemistry Instruments	16	183.3	10.9	5.9	187	128 - 239	16	110.8	7.9	7.1	114	77 - 145
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	168.6	13.3	7.9	174	118 - 220	10	102.9	6.4	6.3	108	72 - 134
Olympus												
Olympus AU	14	160.3	8.5	5.3	163	112 - 209	14	95.9	4.7	4.9	97	67 - 125
Roche Integra												
Roche Integra	23	164.0	7.9	4.8	164	114 - 214	23	100.0	4.4	4.4	100	70 - 131
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	16	167.6	4.1	2.5	168	117 - 218	16	100.2	2.8	2.8	100	70 - 131
Siemens Healthcare CKI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	165.1	7.6	4.6	167	115 - 215	17	100.3	4.9	4.9	100	70 - 131
Vital Diagnostics												
All Chemistry Instruments	18	158.7	8.6	5.4	160	111 - 207	18	94.2	7.0	7.4	96	65 - 123
VITROS												
VITROS 250,350,500,700,750,950	21	134.3	9.7	7.2	137	94 - 175	21	88.9	6.2	6.9	90	62 - 116
All Chemistry Instruments	26	133.3	9.4	7.1	136	93 - 174	26	88.5	6.0	6.8	90	61 - 116

Creatine Kinase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	198	127.3	10.5	8.2	127	89 - 166	199	190.9	18.3	9.6	194	133 - 249
All Roche Integra/c111/c501												
Reagents	24	130.2	7.0	5.3	130	91 - 170	24	195.6	8.6	4.4	195	136 - 255
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	32	130.5	7.4	5.7	129	91 - 170	31	193.1	11.8	6.1	194	135 - 252
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	11	144.3	4.5	3.1	144	100 - 188	11	222.2	6.5	2.9	223	155 - 289
All Chemistry Instruments	16	140.6	9.4	6.7	143	98 - 183	16	216.2	13.4	6.2	222	151 - 282
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	124.1	34.8	28.0	135	86 - 162	11	201.9	11.0	5.4	206	141 - 263
Olympus												
Olympus AU	14	123.3	5.7	4.6	125	86 - 161	14	188.6	10.1	5.3	190	132 - 246
Roche Integra												
Roche Integra	23	129.6	6.5	5.1	129	90 - 169	23	194.7	7.7	3.9	194	136 - 254
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	16	130.0	3.6	2.8	132	91 - 169	16	198.6	3.9	2.0	200	138 - 259
Siemens Healthcare CKI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	129.5	6.7	5.2	130	90 - 169	17	197.2	9.3	4.7	198	138 - 257
Vital Diagnostics												
All Chemistry Instruments	18	120.8	7.4	6.1	122	84 - 158	18	186.8	11.3	6.0	186	130 - 243
VITROS												
VITROS 250,350,500,700,750,950	21	115.1	8.1	7.0	117	80 - 150	21	162.2	11.4	7.0	165	113 - 211
All Chemistry Instruments	26	114.8	7.8	6.8	117	80 - 150	26	161.4	10.8	6.7	165	112 - 210

Creatine Kinase (IU/L)

Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	199	405.2	44.1	10.9	413	283 - 527
All Roche Integra/c111/c501						
Reagents	24	417.7	17.4	4.2	414	292 - 543
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	32	404.9	19.3	4.8	406	283 - 527
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	11	474.3	17.6	3.7	480	331 - 617
All Chemistry Instruments	16	460.4	30.3	6.6	472	322 - 599
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	432.8	16.8	3.9	434	302 - 563
Olympus						
Olympus AU	14	404.1	19.6	4.9	412	282 - 526
Roche Integra						
Roche Integra	23	415.5	14.2	3.4	412	290 - 541
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	16	429.7	9.7	2.2	432	300 - 559
Siemens Healthcare CKI						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	16	426.9	11.2	2.6	428	298 - 556
Vital Diagnostics						
All Chemistry Instruments	18	409.7	22.3	5.4	411	286 - 533
VITROS						
VITROS 250,350,500,700,750,950	21	322.1	26.4	8.2	328	225 - 419
All Chemistry Instruments	26	320.7	24.1	7.5	324	224 - 417

GGT (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	114	40.5	9.5	23.5	37	12 - 70	113	130.8	28.8	22.0	125	44 - 218
All Roche Integra/c111/c501 Reagents	10	35.4	1.6	4.5	36	30 - 41	10	118.9	4.1	3.4	119	106 - 132
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	17	32.1	2.5	7.8	33	24 - 40	16	98.8	4.3	4.4	101	85 - 112
Beckman - cartridge												
All Chemistry Instruments	12	43.3	2.1	4.8	42	36 - 50	12	140.7	5.4	3.8	141	124 - 157
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	52.0	1.4	2.7	52	47 - 57	17	156.2	2.8	1.8	156	147 - 165
Vital Diagnostics												
All Chemistry Instruments	10	32.6	4.4	13.6	33	19 - 46	10	107.8	5.6	5.2	110	90 - 125
VITROS												
All Chemistry Instruments	13	57.3	3.4	5.9	58	47 - 68	13	188.4	6.1	3.2	190	170 - 207

Amylase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	125	107.7	29.8	27.7	113	75 - 140	124	296.4	85.6	28.9	307	207 - 386
All Roche Integra/c111/c501												
Reagents	19	111.2	2.4	2.1	111	77 - 145	19	297.2	6.3	2.1	296	208 - 387
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	11	118.5	6.8	5.8	119	82 - 154	11	334.5	18.6	5.5	334	234 - 435
Beckman - cartridge												
All Chemistry Instruments	11	114.5	15.9	13.9	117	80 - 149	11	309.4	53.1	17.2	324	216 - 403
Olympus												
Olympus AU	12	105.7	6.6	6.3	107	73 - 138	11	295.4	11.0	3.7	296	206 - 384
Roche Integra												
Roche Integra	18	111.0	2.4	2.1	111	77 - 145	17	295.5	3.8	1.3	296	206 - 385
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	19	139.9	3.0	2.1	140	97 - 182	19	394.1	6.8	1.7	393	275 - 513
VITROS												
VITROS 250,350,500,700,750,950	17	48.4	4.0	8.2	48	33 - 63	17	132.6	6.5	4.9	132	92 - 173
All Chemistry Instruments	20	48.5	4.0	8.3	48	33 - 64	21	132.9	9.3	7.0	132	93 - 173
<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	117	399.4	116.4	29.1	424	279 - 520	118	212.2	61.0	28.7	225	148 - 276
All Roche Integra/c111/c501												
Reagents	19	399.6	8.3	2.1	399	279 - 520	18	213.9	3.3	1.5	214	149 - 279
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	10	456.7	16.9	3.7	463	319 - 594	10	237.5	10.1	4.2	232	166 - 309
Beckman - cartridge												
All Chemistry Instruments	10	436.8	13.4	3.1	435	305 - 568	10	233.6	9.4	4.0	234	163 - 304
Olympus												
Olympus AU	11	398.5	17.8	4.5	401	278 - 519	11	210.5	9.7	4.6	212	147 - 274
Roche Integra												
Roche Integra	18	399.1	8.1	2.0	399	279 - 519	17	213.6	3.0	1.4	214	149 - 278
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	18	532.1	10.6	2.0	531	372 - 692	19	277.6	8.2	2.9	277	194 - 361
VITROS												
VITROS 250,350,500,700,750,950	16	177.5	8.7	4.9	179	124 - 231	17	94.1	5.9	6.3	92	65 - 123
All Chemistry Instruments	20	177.2	10.3	5.8	177	124 - 231	20	93.5	6.2	6.6	92	65 - 122

Amylase (IU/L)**Specimen CH-15**

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	118	149.7	41.5	27.7	159	104 - 195
All Roche Integra/c111/c501 Reagents	18	153.7	2.5	1.6	153	107 - 200
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	10	167.8	7.4	4.4	171	117 - 219
Beckman - cartridge						
All Chemistry Instruments	10	166.9	8.4	5.0	166	116 - 217
Olympus						
Olympus AU	11	144.5	6.5	4.5	147	101 - 188
Roche Integra						
Roche Integra	17	153.4	2.2	1.4	153	107 - 200
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	19	189.9	3.2	1.7	190	132 - 247
VITROS						
VITROS 250,350,500,700,750,950	17	68.4	4.2	6.2	69	47 - 89
All Chemistry Instruments	21	69.3	5.1	7.4	70	48 - 91

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	<u>Labs</u>	Specimen CH-11					Specimen CH-12					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	112	135.7	17.2	12.7	140	108 - 163	112	388.3	52.4	13.5	409	310 - 466
All Roche Integra/c111/c501												
Reagents	19	153.7	3.9	2.5	155	122 - 185	19	438.3	10.3	2.4	440	350 - 526
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	13	110.4	7.9	7.1	109	88 - 133	13	304.8	15.1	5.0	307	243 - 366
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	11	127.7	5.2	4.0	129	102 - 154	11	368.1	9.5	2.6	370	294 - 442
All Chemistry Instruments	16	125.4	6.1	4.9	126	100 - 151	16	362.6	13.1	3.6	365	290 - 436
Roche Integra												
Roche Integra	14	154.9	3.0	1.9	156	123 - 186	14	441.2	7.0	1.6	445	352 - 530
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	12	140.9	12.4	8.8	144	112 - 170	12	408.9	37.7	9.2	430	327 - 491
Siemens Healthcare LDI												
All Chemistry Instruments	10	146.6	10.0	6.8	150	117 - 176	10	433.4	16.2	3.7	440	346 - 521
VITROS												
VITROS 250,350,500,700,750,950	10	499.2	14.5	2.9	499	399 - 600	10	1458.2	35.2	2.4	1481	1166 - 1750
All Chemistry Instruments	12	500.2	13.8	2.8	499	400 - 601	12	1459.7	32.2	2.2	1475	1167 - 1752
<u>Instrument/Reagent</u>	<u>Labs</u>	Specimen CH-13					Specimen CH-14					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	110	523.8	72.6	13.9	554	419 - 629	112	278.4	36.4	13.1	293	222 - 335
All Roche Integra/c111/c501												
Reagents	20	595.4	31.0	5.2	596	476 - 715	19	312.2	8.1	2.6	315	249 - 375
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	13	409.9	19.4	4.7	412	327 - 492	13	219.1	10.0	4.5	220	175 - 263
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	11	495.5	11.1	2.2	497	396 - 595	11	263.9	5.6	2.1	264	211 - 317
All Chemistry Instruments	15	490.6	13.9	2.8	495	392 - 589	16	259.8	9.1	3.5	261	207 - 312
Roche Integra												
Roche Integra	15	600.3	33.2	5.5	599	480 - 721	14	314.4	5.9	1.9	317	251 - 378
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	12	516.0	132.5	25.7	567	412 - 620	12	293.1	26.8	9.2	308	234 - 352
Siemens Healthcare LDI												
All Chemistry Instruments	10	587.4	22.4	3.8	585	469 - 705	10	305.7	8.9	2.9	307	244 - 367
VITROS												
VITROS 250,350,500,700,750,950	10	2072.7	70.6	3.4	2102	1658 - 2488	10	1001.3	23.7	2.4	1003	801 - 1202
All Chemistry Instruments	12	2068.1	64.9	3.1	2057	1654 - 2482	12	1003.4	22.3	2.2	1006	802 - 1205

Lactate Dehydrogenase (IU/L)

Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	111	191.6	23.7	12.4	201	153 - 230
All Roche Integra/c111/c501 Reagents	19	213.7	4.5	2.1	214	170 - 257
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	13	153.2	9.3	6.1	154	122 - 184
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	11	180.9	5.9	3.2	182	144 - 218
All Chemistry Instruments	16	177.4	8.4	4.7	179	141 - 213
Roche Integra						
Roche Integra	14	214.3	3.9	1.8	216	171 - 258
Siemens (Dade) Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	12	199.8	17.8	8.9	207	159 - 240
Siemens Healthcare LDI						
All Chemistry Instruments	10	209.0	7.2	3.4	208	167 - 251
VITROS						
VITROS 250,350,500,700,750,950	10	705.3	16.0	2.3	707	564 - 847
All Chemistry Instruments	12	704.5	15.6	2.2	707	563 - 846

Lipase (IU/L)

Specimen CH-11

Specimen CH-12

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	45	51.9	9.0	17.3	58	24 - 79	43	26.2	4.0	15.1	28	14 - 39
All Roche Integra/c111/c501 Reagents	15	49.6	3.5	7.1	51	38 - 61	15	25.7	1.3	5.2	26	21 - 30
Roche Integra												
Roche Integra	14	50.1	3.1	6.3	51	40 - 60	14	25.8	1.3	5.1	26	21 - 30
Siemens (Dade) Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	10	201.8	7.4	3.6	201	179 - 224	10	108.8	7.2	6.7	107	87 - 131
VITROS												
VITROS 250,350,500,700,750,950	10	824.0	28.5	3.5	828	738 - 910	10	370.2	15.7	4.2	371	323 - 418
All Chemistry Instruments	13	817.4	29.2	3.6	821	729 - 905	13	367.9	15.0	4.1	370	322 - 413

Cortisol (mcg/dL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	9.58	0.76	7.9	9.9	7.1 - 12.0	20	9.16	0.95	10.4	9.6	6.8 - 11.5
			Specimen CH-13						Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	11.79	1.27	10.8	11.8	8.8 - 14.8	21	12.38	1.89	15.3	12.2	9.2 - 15.5
			Specimen CH-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	21	18.93	2.15	11.3	18.5	14.1 - 23.7						

T₃ Uptake (percent)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	44	47.43	3.92	8.3	46.4	35.6 - 59.2	44	46.63	4.46	9.6	46.0	33.2 - 60.1
Beckman ACCESS / 2 / Dxl	11	49.64	2.50	5.0	49.8	42.1 - 57.2	11	49.27	2.60	5.3	49.0	41.4 - 57.1
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	12	44.73	2.13	4.8	44.0	38.3 - 51.2	12	43.00	1.54	3.6	43.0	38.3 - 47.7
TOSOH ST AIA	12	45.98	1.11	2.4	45.8	42.6 - 49.4	13	46.09	2.24	4.9	45.8	39.3 - 52.9
			Specimen CH-13						Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	44	45.76	3.94	8.6	45.0	33.9 - 57.6	44	46.80	3.52	7.5	46.0	36.2 - 57.4
Beckman ACCESS / 2 / Dxl	11	47.84	2.06	4.3	47.5	41.6 - 54.1	11	49.05	2.31	4.7	49.2	42.1 - 56.0
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	12	42.90	1.41	3.3	43.0	38.6 - 47.2	12	43.74	1.61	3.7	43.0	38.9 - 48.6
TOSOH ST AIA	13	44.55	1.92	4.3	43.9	38.7 - 50.3	13	46.66	2.48	5.3	46.0	39.2 - 54.2
			Specimen CH-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	44	45.51	2.36	5.2	45.1	38.4 - 52.6						
Beckman ACCESS / 2 / Dxl	11	47.66	1.70	3.6	47.2	42.5 - 52.8						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	12	45.04	1.29	2.9	45.0	41.1 - 49.0						
TOSOH ST AIA	13	43.89	2.00	4.5	43.5	37.9 - 49.9						

T Uptake (uptake units)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	0.441	0.189	42.9	0.37	0.00 - 1.01	8	0.483	0.229	47.4	0.34	0.00 - 1.17
All Abbott Instruments	5	0.308	0.041	13.3	0.28	0.18 - 0.44	5	0.318	0.025	7.8	0.32	0.24 - 0.40
Abbott AxSYM	5	0.308	0.041	13.3	0.28	0.18 - 0.44	5	0.318	0.025	7.8	0.32	0.24 - 0.40
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	0.458	0.191	41.8	0.37	0.00 - 1.04	8	0.486	0.160	32.9	0.43	0.00 - 0.97
All Abbott Instruments	5	0.354	0.021	5.9	0.35	0.29 - 0.42	5	0.372	0.033	8.8	0.36	0.27 - 0.48
Abbott AxSYM	5	0.354	0.021	5.9	0.35	0.29 - 0.42	5	0.372	0.033	8.8	0.36	0.27 - 0.48
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	8	0.523	0.054	10.3	0.52	0.36 - 0.69						
All Abbott Instruments	5	0.518	0.037	7.1	0.51	0.40 - 0.63						
Abbott AxSYM	5	0.518	0.037	7.1	0.51	0.40 - 0.63						

Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	65	1.16	0.24	21.1	1.2	0.4 - 1.9	64	0.89	0.20	22.4	0.9	0.2 - 1.5
All TOSOH Instruments	10	7.66	0.99	13.0	7.6	4.6 - 10.7	10	6.32	0.83	13.2	6.1	3.8 - 8.9
Beckman ACCESS / 2 / Dxl	18	1.29	0.07	5.6	1.3	1.0 - 1.6	18	0.99	0.10	9.7	1.0	0.6 - 1.3
bioMerieux Vidas, Mini Vidas	11	1.37	0.26	19.3	1.2	0.5 - 2.2	11	1.01	0.25	24.5	0.9	0.2 - 1.8
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	64	1.00	0.21	21.4	1.1	0.3 - 1.7	65	1.29	0.25	19.6	1.4	0.5 - 2.1
All TOSOH Instruments	10	6.61	0.64	9.7	6.7	4.6 - 8.6	10	7.83	0.88	11.2	7.7	5.1 - 10.5
Beckman ACCESS / 2 / Dxl	17	1.10	0.12	10.7	1.1	0.7 - 1.5	18	1.41	0.11	7.6	1.4	1.0 - 1.8
bioMerieux Vidas, Mini Vidas	11	1.15	0.27	23.9	1.0	0.3 - 2.0	11	1.47	0.33	22.3	1.3	0.4 - 2.5
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	65	2.08	0.40	19.4	2.2	0.8 - 3.3						
All TOSOH Instruments	10	8.20	0.98	11.9	8.0	5.2 - 11.2						
Beckman ACCESS / 2 / Dxl	18	2.29	0.22	9.4	2.3	1.6 - 3.0						
bioMerieux Vidas, Mini Vidas	11	2.36	0.50	21.3	2.2	0.8 - 3.9						

Free T₃ (pg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	31	3.29	0.51	15.4	3.4	1.7 - 4.9	31	2.54	0.56	22.2	2.9	0.8 - 4.3
All DPC Immulite Instruments	12	2.84	0.32	11.4	3.0	1.8 - 3.9	12	1.92	0.25	12.9	2.0	1.1 - 2.7
All TOSOH Instruments	10	7.18	0.61	8.5	7.4	5.3 - 9.1	10	5.06	0.49	9.6	5.2	3.5 - 6.6
Beckman ACCESS / 2 / Dxl	11	3.47	0.21	6.2	3.5	2.8 - 4.2	11	2.87	0.17	5.8	2.9	2.3 - 3.4

Thyroxine (mcg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	90	6.93	0.83	11.9	6.8	5.5 - 8.4	90	5.56	0.66	11.8	5.6	4.4 - 6.7
All Abbott Instruments	11	5.79	1.46	25.1	6.2	4.6 - 7.0	11	4.70	1.30	27.8	5.1	3.7 - 5.7
All TOSOH Instruments	22	7.41	0.82	11.1	7.5	5.9 - 8.9	22	5.99	0.58	9.6	6.0	4.7 - 7.2
Abbott AxSYM	11	5.79	1.46	25.1	6.2	4.6 - 7.0	11	4.70	1.30	27.8	5.1	3.7 - 5.7
Beckman ACCESS / 2 / Dxl	19	7.48	0.79	10.6	7.5	5.9 - 9.0	19	5.95	0.56	9.4	6.0	4.7 - 7.2
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	6.69	0.47	7.1	6.6	5.3 - 8.1	17	5.32	0.54	10.1	5.4	4.2 - 6.4
TOSOH ST AIA	19	7.41	0.88	11.9	7.5	5.9 - 8.9	19	5.99	0.62	10.3	6.0	4.7 - 7.2

<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	89	6.73	0.75	11.1	6.7	5.3 - 8.1	90	8.11	0.88	10.9	8.0	6.4 - 9.8
All Abbott Instruments	11	5.55	1.51	27.2	5.9	4.4 - 6.7	11	6.91	1.80	26.0	7.4	5.5 - 8.3
All TOSOH Instruments	22	7.38	0.59	8.0	7.4	5.9 - 8.9	22	8.70	0.75	8.6	8.8	6.9 - 10.5
Abbott AxSYM	11	5.55	1.51	27.2	5.9	4.4 - 6.7	11	6.91	1.80	26.0	7.4	5.5 - 8.3
Beckman ACCESS / 2 / Dxl	19	7.05	0.65	9.2	7.1	5.6 - 8.5	19	8.51	0.98	11.5	8.8	6.8 - 10.3
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	6.47	0.43	6.6	6.4	5.1 - 7.8	17	7.86	0.52	6.6	7.8	6.2 - 9.5
TOSOH ST AIA	19	7.35	0.60	8.2	7.4	5.8 - 8.9	19	8.68	0.80	9.2	8.8	6.9 - 10.5

<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	89	13.95	1.76	12.6	14.0	11.1 - 16.8						
All Abbott Instruments	10	12.67	0.33	2.6	12.8	10.1 - 15.3						
All TOSOH Instruments	22	15.26	1.67	11.0	15.5	12.2 - 18.4						
Abbott AxSYM	10	12.67	0.33	2.6	12.8	10.1 - 15.3						
Beckman ACCESS / 2 / Dxl	19	13.53	1.55	11.5	14.0	10.8 - 16.3						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	14.49	0.69	4.8	14.4	11.5 - 17.4						
TOSOH ST AIA	19	15.32	1.79	11.7	15.5	12.2 - 18.4						

Free Thyroxine (ng/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	260	2.20	0.66	30.0	2.2	0.2 - 4.2	258	1.76	0.52	29.6	1.8	0.1 - 3.4
All Abbott Instruments	22	1.62	0.09	5.6	1.6	1.3 - 1.9	22	1.08	0.07	6.1	1.1	0.8 - 1.3
All DPC Immulite Instruments	21	2.38	0.12	5.2	2.4	2.0 - 2.8	21	2.07	0.11	5.5	2.0	1.7 - 2.5
All Roche Elecsys/cobas e 601 Instruments	15	2.34	0.09	3.9	2.4	2.0 - 2.7	15	1.95	0.07	3.8	2.0	1.7 - 2.2
All TOSOH Instruments	50	2.98	0.23	7.6	3.0	2.3 - 3.7	51	2.35	0.22	9.3	2.3	1.6 - 3.0
Abbott AxSYM	22	1.62	0.09	5.6	1.6	1.3 - 1.9	22	1.08	0.07	6.1	1.1	0.8 - 1.3
Beckman ACCESS / 2 / Dxl	44	2.03	0.11	5.3	2.0	1.7 - 2.4	45	1.66	0.11	6.4	1.7	1.3 - 2.0
bioMerieux Vidas, Mini Vidas	48	1.49	0.13	8.8	1.5	1.1 - 1.9	48	1.23	0.15	12.1	1.2	0.7 - 1.7
DPC Immulite/1000	15	2.38	0.14	6.0	2.4	1.9 - 2.9	15	2.08	0.12	5.8	2.0	1.7 - 2.5
Roche Elecsys 1010/2010 Siemens	14	2.34	0.09	4.0	2.4	2.0 - 2.7	14	1.95	0.08	3.9	2.0	1.7 - 2.2
Dimension/AR/ES/RxL/Xpand/EXL	32	2.62	0.28	10.6	2.6	1.7 - 3.5	32	2.10	0.24	11.2	2.1	1.3 - 2.9
TOSOH AIA	13	2.90	0.26	9.0	3.0	2.1 - 3.7	13	2.31	0.23	10.1	2.3	1.6 - 3.1
TOSOH ST AIA	38	2.99	0.25	8.2	3.0	2.2 - 3.8	38	2.36	0.21	9.1	2.3	1.7 - 3.0
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	259	2.04	0.63	30.9	2.1	0.1 - 4.0	259	2.49	0.74	29.9	2.5	0.2 - 4.8
All Abbott Instruments	22	1.18	0.08	6.7	1.2	0.9 - 1.5	22	1.65	0.10	6.1	1.6	1.3 - 2.0
All DPC Immulite Instruments	21	2.31	0.11	4.9	2.3	1.9 - 2.7	21	2.65	0.11	4.2	2.6	2.3 - 3.0
All Roche Elecsys/cobas e 601 Instruments	15	2.29	0.09	4.0	2.3	2.0 - 2.6	15	2.69	0.10	3.7	2.7	2.3 - 3.0
All TOSOH Instruments	51	2.70	0.23	8.6	2.7	1.9 - 3.4	50	3.35	0.24	7.3	3.4	2.6 - 4.1
Abbott AxSYM	22	1.18	0.08	6.7	1.2	0.9 - 1.5	22	1.65	0.10	6.1	1.6	1.3 - 2.0
Beckman ACCESS / 2 / Dxl	45	1.89	0.09	4.7	1.9	1.6 - 2.2	44	2.24	0.14	6.0	2.2	1.8 - 2.7
bioMerieux Vidas, Mini Vidas	48	1.39	0.14	9.8	1.4	0.9 - 1.8	47	1.73	0.17	9.7	1.7	1.2 - 2.3
DPC Immulite/1000	15	2.31	0.12	5.4	2.3	1.9 - 2.7	15	2.65	0.13	4.9	2.6	2.2 - 3.1
Roche Elecsys 1010/2010 Siemens	14	2.29	0.09	4.2	2.3	2.0 - 2.6	14	2.69	0.10	3.7	2.7	2.3 - 3.0
Dimension/AR/ES/RxL/Xpand/EXL	32	2.54	0.27	10.7	2.5	1.7 - 3.4	32	2.98	0.29	9.6	3.0	2.1 - 3.9
TOSOH AIA	13	2.62	0.24	9.2	2.6	1.8 - 3.4	13	3.32	0.32	9.5	3.4	2.3 - 4.3
TOSOH ST AIA	38	2.72	0.23	8.3	2.7	2.0 - 3.5	38	3.34	0.26	7.7	3.3	2.5 - 4.2

Free Thyroxine (ng/dL)

Specimen CH-15

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	260	3.86	1.11	28.8	3.6	0.5 - 7.2
All Abbott Instruments	22	2.62	0.17	6.4	2.6	2.1 - 3.2
All DPC Immulite Instruments	20	3.68	0.15	4.0	3.7	3.2 - 4.2
All Roche Elecsys/cobas e 601 Instruments	15	4.37	0.21	4.8	4.4	3.7 - 5.0
All TOSOH Instruments	51	5.19	0.35	6.8	5.2	4.1 - 6.3
Abbott AxSYM	22	2.62	0.17	6.4	2.6	2.1 - 3.2
Beckman ACCESS / 2 / Dxl	44	3.18	0.16	5.2	3.2	2.6 - 3.7
bioMerieux Vidas, Mini Vidas	47	2.97	0.61	20.7	3.0	1.1 - 4.9
DPC Immulite/1000	15	3.71	0.25	6.7	3.6	2.9 - 4.5
Roche Elecsys 1010/2010 Siemens	14	4.38	0.22	4.9	4.4	3.7 - 5.1
Dimension/AR/ES/RxL/Xpand/EXL	32	4.42	0.23	5.3	4.4	3.7 - 5.2
TOSOH AIA	13	5.07	0.38	7.4	5.0	3.9 - 6.3
TOSOH ST AIA	38	5.23	0.34	6.5	5.2	4.2 - 6.3

TSH (μU/mL)

Specimen CH-11

Specimen CH-12

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	372	3.43	0.44	12.7	3.4	2.1 - 4.8	370	1.74	0.21	12.2	1.7	1.1 - 2.4
All Abbott Instruments	43	2.96	0.31	10.6	3.0	2.0 - 4.0	43	1.50	0.14	9.6	1.5	1.0 - 2.0
All DPC Immulite Instruments	24	3.21	0.41	12.7	3.3	1.9 - 4.5	24	1.66	0.19	11.2	1.7	1.0 - 2.3
All Roche Elecsys/cobas e 601 Instruments	18	3.56	0.23	6.3	3.6	2.8 - 4.3	18	1.86	0.12	6.5	1.9	1.4 - 2.3
All TOSOH Instruments	74	3.82	0.33	8.5	3.8	2.8 - 4.9	72	1.96	0.15	7.5	2.0	1.5 - 2.4
Abbott AxSYM	37	2.97	0.33	10.9	3.0	1.9 - 4.0	37	1.49	0.15	10.2	1.5	1.0 - 2.0
Beckman ACCESS / 2 / Dxl	58	3.11	0.22	7.2	3.2	2.4 - 3.8	57	1.59	0.10	6.4	1.6	1.2 - 1.9
bioMerieux Vidas, Mini Vidas	79	3.71	0.24	6.5	3.7	2.9 - 4.5	77	1.81	0.11	5.9	1.8	1.4 - 2.2
DPC Immulite/1000	16	3.11	0.41	13.2	3.3	1.8 - 4.4	16	1.58	0.16	10.1	1.6	1.1 - 2.1
Roche Elecsys 1010/2010 Siemens	17	3.55	0.23	6.5	3.6	2.8 - 4.3	17	1.85	0.12	6.6	1.9	1.4 - 2.3
Dimension/AR/ES/RxL/Xpand/EXL	49	3.11	0.23	7.4	3.1	2.4 - 3.9	49	1.59	0.12	7.3	1.6	1.2 - 2.0
TOSOH AIA	26	3.65	0.27	7.5	3.7	2.8 - 4.5	26	1.90	0.17	8.8	1.9	1.3 - 2.4
TOSOH ST AIA	48	3.92	0.32	8.1	3.9	2.9 - 4.9	45	2.00	0.11	5.5	2.0	1.6 - 2.4

TSH (μU/mL)

Specimen CH-13							Specimen CH-14					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	373	2.43	0.30	12.5	2.4	1.5 - 3.4	370	4.09	0.52	12.7	4.1	2.5 - 5.7
All Abbott Instruments	44	2.08	0.19	8.9	2.1	1.5 - 2.7	44	3.58	0.31	8.7	3.6	2.6 - 4.6
All DPC Immulite Instruments	24	2.30	0.28	12.1	2.4	1.4 - 3.2	24	4.00	0.55	13.8	4.1	2.3 - 5.7
All Roche Elecsys/cobas e 601 Instruments	16	2.53	0.08	3.1	2.5	2.2 - 2.8	16	4.21	0.14	3.4	4.2	3.7 - 4.7
All TOSOH Instruments	74	2.74	0.21	7.6	2.7	2.1 - 3.4	73	4.58	0.35	7.7	4.6	3.5 - 5.7
Abbott AxSYM	38	2.08	0.20	9.6	2.1	1.4 - 2.7	38	3.59	0.33	9.3	3.6	2.5 - 4.6
Beckman ACCESS / 2 / Dxl	57	2.21	0.15	6.7	2.2	1.7 - 2.7	57	3.66	0.25	6.9	3.7	2.9 - 4.5
bioMerieux Vidas, Mini Vidas	78	2.57	0.16	6.3	2.6	2.0 - 3.1	78	4.39	0.29	6.6	4.4	3.5 - 5.3
DPC Immulite/1000	16	2.22	0.25	11.2	2.3	1.4 - 3.0	16	3.78	0.47	12.4	4.0	2.3 - 5.2
Roche Elecsys 1010/2010	15	2.53	0.08	3.2	2.5	2.2 - 2.8	15	4.20	0.15	3.5	4.2	3.7 - 4.7
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	49	2.21	0.15	6.7	2.2	1.7 - 2.7	49	3.68	0.29	7.9	3.7	2.8 - 4.6
TOSOH AIA	26	2.65	0.20	7.5	2.6	2.0 - 3.3	26	4.45	0.37	8.3	4.5	3.3 - 5.6
TOSOH ST AIA	48	2.78	0.20	7.3	2.8	2.1 - 3.4	47	4.65	0.32	7.0	4.6	3.6 - 5.7
Specimen CH-15												
All Method	368	9.04	1.10	12.2	8.9	5.7 - 12.4						
All Abbott Instruments	44	8.20	0.82	10.0	8.0	5.7 - 10.7						
All DPC Immulite Instruments	23	8.65	0.73	8.5	8.6	6.4 - 10.9						
All Roche Elecsys/cobas e 601 Instruments	17	8.66	0.53	6.1	8.8	7.0 - 10.3						
All TOSOH Instruments	72	10.01	0.65	6.5	10.0	8.0 - 12.0						
Abbott AxSYM	38	8.25	0.87	10.6	8.1	5.6 - 10.9						
Beckman ACCESS / 2 / Dxl	56	7.91	0.38	4.8	8.0	6.7 - 9.1						
bioMerieux Vidas, Mini Vidas	76	9.94	0.61	6.1	10.0	8.1 - 11.8						
DPC Immulite/1000	16	8.47	0.67	7.9	8.4	6.4 - 10.5						
Roche Elecsys 1010/2010	16	8.64	0.54	6.3	8.8	7.0 - 10.3						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	49	8.43	0.57	6.7	8.4	6.7 - 10.2						
TOSOH AIA	26	9.86	0.66	6.7	9.9	7.8 - 11.9						
TOSOH ST AIA	46	10.09	0.63	6.2	10.2	8.2 - 12.0						

Serum hCG – Qualitative

	Specimen HCG-11		Specimen HCG-12	
<u>Method</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	166	166	-
Abbott AxSYM	-	1	1	-
Beckman Coulter ICON 25 hCG	-	14	14	-
Cardinal Health SP Brand combo	-	6	6	-
CONSULT diagnostics hCG Combo	-	14	14	-
Genzyme OSOM hCG Combo Test	-	4	4	-
Henry Schein One Step + Combo	-	9	9	-
Immunostics Detector Combi	-	1	1	-
Inverness Acceava hCG Combo II	-	1	1	-
Inverness Clearview hCG Combo II	-	6	6	-
Inverness Signify hCG combo	-	1	1	-
LifeSign Status hCG	-	1	1	-
McKesson hCG Combo Cassette	-	8	8	-
PEP (Lab Supply) HCG Combo Test	-	1	1	-
Polymedco Poly stat hCG	-	3	3	-
PSS Select hCG Combo	-	6	6	-
Quidel QuickVue + One-Step	-	15	15	-
Quidel QuickVue One-Step Combo	-	62	62	-
Stanbio QUPID Plus	-	3	3	-
Sure-Vue hCG - 25mIU	-	1	1	-
Sure-Vue hCG-STAT (10mIU)	-	3	3	-

Serum hCG – Qualitative

	Specimen HCG-13		Specimen HCG-14	
ALL METHODS	166	-	-	166
Abbott AxSYM	1	-	-	1
Beckman Coulter ICON 25 hCG	14	-	-	14
Cardinal Health SP Brand combo	6	-	-	6
CONSULT diagnostics hCG Combo	14	-	-	14
Genzyme OSOM hCG Combo Test	4	-	-	4
Henry Schein One Step + Combo	9	-	-	9
Immunostics Detector Combi	1	-	-	1
Inverness Acceava hCG Combo II	1	-	-	1
Inverness Clearview hCG Combo II	6	-	-	6
Inverness Signify hCG combo	1	-	-	1
LifeSign Status hCG	1	-	-	1
McKesson hCG Combo Cassette	8	-	-	8
PEP (Lab Supply) HCG Combo Test	1	-	-	1
Polymedco Poly stat hCG	3	-	-	3
PSS Select hCG Combo	6	-	-	6
Quidel QuickVue + One-Step	15	-	-	15
Quidel QuickVue One-Step Combo	62	-	-	62
Stanbio QUPID Plus	3	-	-	3
Sure-Vue hCG - 25mIU	1	-	-	1
Sure-Vue hCG-STAT (10mIU)	3	-	-	3

Serum hCG – Qualitative

Specimen HCG-15

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	166	-
Abbott AxSYM	1	-
Beckman Coulter ICON 25 hCG	14	-
Cardinal Health SP Brand combo	6	-
CONSULT diagnostics hCG Combo	14	-
Genzyme OSOM hCG Combo Test	4	-
Henry Schein One Step + Combo	9	-
Immunostics Detector Combi	1	-
Inverness Acceava hCG Combo II	1	-
Inverness Clearview hCG Combo II	6	-
Inverness Signify hCG combo	1	-
LifeSign Status hCG	1	-
McKesson hCG Combo Cassette	8	-
PEP (Lab Supply) HCG Combo Test	1	-
Polymedco Poly stat hCG	3	-
PSS Select hCG Combo	6	-
Quidel QuickVue + One-Step	15	-
Quidel QuickVue One-Step Combo	62	-
Stanbio QUPID Plus	3	-
Sure-Vue hCG - 25mIU	1	-
Sure-Vue hCG-STAT (10mIU)	3	-

Serum hCG – Quantitative

Specimen HCG-11

Specimen HCG-12

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	32	1.2	0.7	62.1	1	0 - 4	34	219.6	23.2	10.6	211	149 - 290

Specimen HCG-13

Specimen HCG-14

All Method	33	60.3	6.4	10.5	60	41 - 80	32	1.2	0.7	62.6	1	0 - 4
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Specimen HCG-15

All Method	33	3326.7	471.5	14.2	3275	1912 - 4742
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Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	438	143.7	5.8	4.0	143	129 - 159	434	153.4	5.3	3.5	153	138 - 169
All Roche Integra/c111/c501												
Reagents	44	142.1	4.0	2.8	142	127 - 157	44	153.0	3.8	2.5	153	137 - 169
Abaxis Piccolo												
Abaxis Piccolo - waived	11	149.1	1.0	0.7	149	134 - 164	11	155.5	1.9	1.2	155	139 - 171
All Chemistry Instruments	17	148.6	1.7	1.2	149	133 - 164	17	155.4	1.9	1.2	155	139 - 171
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	57	144.0	3.6	2.5	144	129 - 159	58	155.1	4.3	2.8	155	139 - 171
All Chemistry Instruments	58	144.0	3.6	2.5	144	129 - 159	59	155.1	4.2	2.7	155	139 - 171
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	17	149.6	5.6	3.7	149	134 - 165	17	158.9	4.7	3.0	157	143 - 175
All Chemistry Instruments	26	147.3	5.7	3.9	146	132 - 163	26	156.3	5.8	3.7	156	140 - 172
Cholestech LDX												
Cholestech LDX - waived	46	142.8	7.0	4.9	143	128 - 158	45	150.2	6.2	4.1	151	135 - 166
All Chemistry Instruments	52	142.8	6.6	4.6	143	128 - 158	51	150.3	6.1	4.0	151	135 - 166
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	145.9	7.6	5.2	147	131 - 161	17	155.2	7.3	4.7	157	139 - 171
Olympus												
Olympus AU	20	137.7	2.2	1.6	137	123 - 152	20	148.6	2.6	1.8	148	133 - 164
Pointe Scientific												
Spectrophotometer	11	141.5	2.8	2.0	142	127 - 156	11	151.2	3.3	2.2	150	136 - 167
All Chemistry Instruments	16	145.9	8.4	5.8	143	131 - 161	16	154.5	6.2	4.0	154	139 - 170
Roche Integra												
Roche Integra	38	141.4	3.7	2.6	142	127 - 156	38	152.2	3.4	2.2	153	137 - 168
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	56	139.5	3.6	2.6	139	125 - 154	54	151.2	3.3	2.2	151	136 - 167
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	147.9	6.9	4.7	148	133 - 163	16	156.4	8.5	5.4	158	140 - 173
Vital Diagnostics Envoy 500	17	147.8	6.8	4.6	148	132 - 163	17	155.8	7.2	4.6	156	140 - 172
All Chemistry Instruments	34	147.8	6.6	4.5	148	133 - 163	33	156.7	6.5	4.1	156	141 - 173
VITROS												
VITROS 250,350,500,700,750,950	38	143.4	4.2	2.9	144	129 - 158	37	152.1	3.6	2.4	153	136 - 168
All Chemistry Instruments	54	143.7	4.1	2.9	144	129 - 159	53	152.9	4.4	2.9	153	137 - 169

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	393	175.7	5.9	3.4	175	158 - 194	395	166.0	5.9	3.6	166	149 - 183
All Roche Integra/c111/c501												
Reagents	44	175.5	5.0	2.8	175	157 - 193	44	165.0	4.8	2.9	165	148 - 182
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	173	154 - 190	6	-	-	-	169	151 - 185
All Chemistry Instruments	11	171.9	2.1	1.2	172	154 - 190	11	168.1	2.2	1.3	167	151 - 185
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	58	177.4	5.5	3.1	178	159 - 196	57	166.3	4.5	2.7	167	149 - 183
All Chemistry Instruments	59	177.4	5.4	3.1	178	159 - 196	58	166.3	4.5	2.7	167	149 - 183
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	17	179.7	4.7	2.6	179	161 - 198	17	171.2	6.2	3.6	171	154 - 189
All Chemistry Instruments	26	177.3	5.4	3.1	177	159 - 195	26	168.5	6.9	4.1	169	151 - 186
Cholestech LDX												
Cholestech LDX - waived	20	175.1	9.6	5.5	175	157 - 193	20	167.7	7.0	4.2	169	150 - 185
All Chemistry Instruments	23	175.0	8.9	5.1	175	157 - 193	23	167.6	6.6	4.0	169	150 - 185
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	178.1	7.0	3.9	178	160 - 196	17	168.5	6.6	3.9	168	151 - 186
Olympus												
Olympus AU	20	171.1	3.0	1.7	171	153 - 189	20	160.7	3.0	1.9	161	144 - 177
Pointe Scientific												
Spectrophotometer	11	173.5	2.9	1.7	173	156 - 191	11	164.6	2.3	1.4	164	148 - 182
All Chemistry Instruments	16	177.9	8.2	4.6	176	160 - 196	16	168.4	7.4	4.4	167	151 - 186
Roche Integra												
Roche Integra	38	174.6	4.4	2.5	174	157 - 193	37	163.8	3.7	2.3	164	147 - 181
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	55	173.5	4.1	2.4	173	156 - 191	55	162.6	4.3	2.6	163	146 - 179
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	177.1	7.9	4.5	177	159 - 195	16	170.7	8.7	5.1	169	153 - 188
Vital Diagnostics Envoy 500	17	174.8	8.1	4.6	174	157 - 193	17	167.0	6.0	3.6	166	150 - 184
All Chemistry Instruments	34	175.9	7.9	4.5	176	158 - 194	34	169.0	7.5	4.5	168	152 - 186
VITROS												
VITROS 250,350,500,700,750,950	38	173.9	4.5	2.6	174	156 - 192	38	165.9	4.9	2.9	166	149 - 183
All Chemistry Instruments	54	174.7	5.0	2.9	174	157 - 193	54	166.3	5.1	3.1	166	149 - 183

Cholesterol, Total (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	397	212.8	7.2	3.4	212	191 - 235
All Roche Integra/c111/c501						
Reagents	45	210.6	6.0	2.9	210	189 - 232
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	216	191 - 235
All Chemistry Instruments	11	212.9	2.5	1.2	213	191 - 235
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	57	211.7	5.4	2.5	212	190 - 233
All Chemistry Instruments	58	211.7	5.3	2.5	212	190 - 233
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	17	217.8	5.9	2.7	216	196 - 240
All Chemistry Instruments	26	215.4	6.5	3.0	215	193 - 237
Cholestech LDX						
Cholestech LDX - waived	20	218.7	8.7	4.0	220	196 - 241
All Chemistry Instruments	23	218.0	8.2	3.8	219	196 - 240
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	214.2	8.1	3.8	215	192 - 236
Olympus						
Olympus AU	20	206.1	3.6	1.7	206	185 - 227
Pointe Scientific						
Spectrophotometer	11	212.2	5.2	2.5	214	190 - 234
All Chemistry Instruments	16	215.6	7.7	3.6	216	194 - 238
Roche Integra						
Roche Integra	37	209.0	4.6	2.2	209	188 - 230
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	55	209.2	5.2	2.5	209	188 - 231
Vital Diagnostics						
Vital Diagnostics ATAC 8000	16	217.7	8.5	3.9	220	195 - 240
Vital Diagnostics Envoy 500	17	213.0	9.2	4.3	215	191 - 235
All Chemistry Instruments	34	215.3	8.9	4.1	216	193 - 237
VITROS						
VITROS 250,350,500,700,750,950	38	214.7	6.7	3.1	215	193 - 237
All Chemistry Instruments	53	215.8	6.7	3.1	216	194 - 238

LDL Cholesterol - Calculated (mg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	291	47.7	11.3	23.7	49	13 - 82	291	53.5	13.4	25.1	55	13 - 94
Calculated-Trig/5												
Alfa Wassermann ACE/NexCT/Alera	39	55.4	5.0	9.1	55	40 - 71	40	62.9	5.4	8.5	64	46 - 79
Beckman Synchron LX/Pro/DxC	10	29.7	5.4	18.1	31	13 - 46	10	29.9	6.1	20.4	30	11 - 49
Cholestech LDX - waived	29	56.2	5.5	9.8	56	39 - 73	29	65.2	8.1	12.5	66	40 - 90
Horiba ABX Pentra 400	12	55.9	8.2	14.6	53	31 - 81	12	64.1	6.4	10.1	63	44 - 84
Olympus AU	12	41.7	10.2	24.4	42	11 - 73	13	51.5	10.4	20.1	54	20 - 83
Roche Integra	23	48.3	5.0	10.2	49	33 - 64	23	49.6	4.6	9.3	50	35 - 64
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	47.9	4.8	10.1	48	33 - 63	25	50.4	5.3	10.5	50	34 - 67
Vital Diagnostics ATAC 8000	10	50.4	13.6	27.0	51	9 - 92	10	59.4	13.3	22.4	63	19 - 100
Vital Diagnostics Envoy 500	12	45.0	10.9	24.3	47	12 - 78	12	49.7	11.6	23.4	52	14 - 85
VITROS 250,350,500,700,750,950	33	34.9	5.1	14.7	36	19 - 51	33	38.6	6.6	17.0	41	18 - 59
All Chemistry Instruments	266	47.2	11.3	23.9	49	13 - 82	266	52.8	13.1	24.9	54	13 - 93

LDL Cholesterol - Direct (mg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	142	35.2	11.7	33.3	33	0 - 71	140	37.6	12.7	33.7	35	0 - 76
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE/NexCT/Alera	13	34.7	8.9	25.5	32	8 - 62	13	37.5	11.6	30.9	35	2 - 73
Roche LDL Direct												
Roche Integra	17	49.2	4.3	8.8	50	36 - 63	17	51.1	4.7	9.3	51	36 - 66
All Chemistry Instruments	18	49.3	4.2	8.5	50	36 - 62	18	51.1	4.6	9.0	51	37 - 65
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	20	35.1	4.7	13.3	34	21 - 50	20	37.5	4.8	12.7	37	23 - 52

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	421	71.8	10.3	14.4	70	50 - 94	422	77.4	12.5	16.2	78	54 - 101
All Dex-Sulfate 50,000 MW Methods	72	71.1	10.4	14.7	69	49 - 93	73	71.3	14.7	20.6	68	49 - 93
All Direct Methods	245	71.6	11.1	15.5	69	50 - 94	245	78.4	12.3	15.7	78	54 - 102
All Phosphotungstic Acid Methods	31	69.2	6.8	9.8	69	48 - 90	31	76.5	8.3	10.8	78	53 - 100
Abaxis Piccolo												
Abaxis Piccolo - waived	11	62.6	4.2	6.7	64	43 - 82	11	73.4	9.6	13.1	75	51 - 96
All Chemistry Instruments	17	61.9	6.5	10.5	63	43 - 81	17	73.5	8.8	12.0	74	51 - 96
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE/NexCT/Alera	10	67.5	9.6	14.2	68	47 - 88	10	68.8	11.3	16.4	68	48 - 90
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	43	66.0	5.4	8.2	65	46 - 86	44	70.1	6.3	9.0	70	49 - 92
All Chemistry Instruments	44	65.6	4.8	7.2	65	45 - 86	46	70.0	6.2	8.8	69	49 - 92
Beckman HDLD												
Beckman Synchron LX/Pro/DxC	16	95.7	5.4	5.7	97	66 - 125	16	105.3	6.8	6.4	108	73 - 137
All Chemistry Instruments	22	92.6	7.2	7.8	95	64 - 121	22	102.4	8.1	7.9	104	71 - 134
Cholestech LDX												
Cholestech LDX - waived	39	64.9	6.2	9.5	64	45 - 85	39	62.9	7.4	11.7	62	44 - 82
All Chemistry Instruments	43	65.1	6.2	9.5	64	45 - 85	43	63.0	7.1	11.3	63	44 - 82
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	64.3	6.0	9.3	65	45 - 84	14	66.8	5.9	8.8	67	46 - 87
Olympus Direct HDL / LDL												
Olympus AU	15	73.0	7.5	10.2	73	51 - 95	15	76.1	8.2	10.8	78	53 - 99
Roche HDL Direct												
Roche Integra	24	72.5	4.9	6.8	71	50 - 95	25	83.2	5.4	6.5	82	58 - 109
All Chemistry Instruments	27	72.0	3.9	5.4	71	50 - 94	29	83.2	5.3	6.4	82	58 - 109
Siemens Automated HDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	36	67.9	2.2	3.3	68	47 - 89	36	78.6	2.4	3.1	78	55 - 103
Vital Diagnostics Direct												
Vital Diagnostics ATAC 8000	11	76.2	9.0	11.9	73	53 - 100	11	78.6	8.4	10.6	77	55 - 103
Vital Diagnostics Envoy 500	11	80.7	6.8	8.4	78	56 - 105	11	87.2	5.4	6.2	89	61 - 114
All Chemistry Instruments	23	78.9	8.2	10.4	78	55 - 103	23	83.3	8.2	9.9	84	58 - 109
VITROS												
All Chemistry Instruments	16	82.3	6.0	7.3	83	57 - 107	16	87.9	7.9	8.9	87	61 - 115
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	27	81.6	4.4	5.4	81	57 - 107	27	88.3	4.4	5.0	88	61 - 115
All Chemistry Instruments	33	81.3	4.4	5.4	81	56 - 106	33	88.2	4.3	4.9	88	61 - 115

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	384	88.2	13.2	14.9	88	61 - 115	384	82.4	11.2	13.6	80	57 - 108
All Dex-Sulfate 50,000 MW Methods	51	83.3	16.1	19.3	81	58 - 109	51	83.0	12.9	15.6	82	58 - 108
All Direct Methods	237	88.3	13.5	15.3	88	61 - 115	238	81.9	11.9	14.6	79	57 - 107
All Phosphotungstic Acid Methods	31	85.3	9.5	11.1	88	59 - 111	31	77.9	7.0	9.0	78	54 - 102
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	94	64 - 121	6	-	-	-	86	54 - 102
All Chemistry Instruments	10	92.7	4.3	4.7	94	64 - 121	11	78.0	8.6	11.0	79	54 - 102
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE/NexCT/Alera	10	78.3	9.8	12.5	80	54 - 102	10	76.5	10.6	13.8	76	53 - 100
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	42	77.5	6.0	7.8	77	54 - 101	43	75.0	6.7	8.9	75	52 - 98
All Chemistry Instruments	44	77.4	5.9	7.6	77	54 - 101	44	74.5	5.9	7.9	75	52 - 97
Beckman HDLD												
Beckman Synchron LX/Pro/DxC	16	119.9	5.7	4.8	120	83 - 156	16	109.8	5.9	5.3	111	76 - 143
All Chemistry Instruments	22	116.0	8.6	7.5	118	81 - 151	22	106.5	7.9	7.4	108	74 - 139
Cholestech LDX												
Cholestech LDX - waived	20	69.4	7.4	10.7	70	48 - 91	20	73.8	10.5	14.2	74	51 - 96
All Chemistry Instruments	23	69.6	7.7	11.0	70	48 - 91	23	74.3	9.8	13.2	75	52 - 97
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	75.1	7.4	9.8	78	52 - 98	14	72.2	8.1	11.2	71	50 - 94
Olympus Direct HDL / LDL												
Olympus AU	15	85.1	9.6	11.3	87	59 - 111	15	81.5	8.8	10.8	84	57 - 106
Roche HDL Direct												
Roche Integra	24	92.2	4.7	5.1	91	64 - 120	24	81.6	4.1	5.0	81	57 - 107
All Chemistry Instruments	28	92.3	4.7	5.1	91	64 - 120	28	81.6	4.1	5.1	81	57 - 107
Siemens Automated HDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	37	88.4	3.2	3.6	88	61 - 115	37	77.7	3.0	3.9	77	54 - 101
Vital Diagnostics Direct												
Vital Diagnostics ATAC 8000	11	88.0	9.5	10.8	84	61 - 115	11	82.8	7.5	9.0	80	57 - 108
Vital Diagnostics Envoy 500	11	97.2	8.1	8.3	93	68 - 127	11	92.1	5.5	6.0	92	64 - 120
All Chemistry Instruments	23	92.8	9.7	10.4	92	64 - 121	23	88.0	8.2	9.3	88	61 - 115
VITROS												
All Chemistry Instruments	16	97.0	8.0	8.3	97	67 - 127	16	93.5	8.1	8.6	94	65 - 122
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	27	98.6	4.9	5.0	100	69 - 129	27	91.3	4.8	5.2	92	63 - 119
All Chemistry Instruments	33	98.2	5.1	5.2	98	68 - 128	33	90.9	4.9	5.4	91	63 - 119

Cholesterol, HDL (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	383	97.6	13.8	14.1	96	68 - 127
All Dex-Sulfate 50,000 MW Methods	50	101.6	11.3	11.1	100	71 - 133
All Direct Methods	238	97.3	15.0	15.4	94	68 - 127
All Phosphotungstic Acid Methods	31	90.3	11.1	12.3	86	63 - 118
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	100	70 - 132
All Chemistry Instruments	10	101.0	2.3	2.3	100	70 - 132
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE/NexCT/Alera	9	-	-	-	90	68 - 127
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	44	91.8	8.5	9.2	90	64 - 120
All Chemistry Instruments	46	91.6	8.3	9.1	90	64 - 120
Beckman HDLD						
Beckman Synchron LX/Pro/DxC	16	129.3	6.7	5.2	130	90 - 169
All Chemistry Instruments	22	125.8	8.6	6.8	127	88 - 164
Cholestech LDX						
Cholestech LDX - waived	20	96.1	5.2	5.4	99	67 - 125
All Chemistry Instruments	23	96.3	5.0	5.2	99	67 - 126
Horiba ABX Pentra						
Horiba ABX Pentra 400	14	90.0	9.8	10.8	91	63 - 117
Olympus Direct HDL / LDL						
Olympus AU	15	100.7	10.6	10.5	103	70 - 131
Roche HDL Direct						
Roche Integra	24	88.1	5.1	5.7	87	61 - 115
All Chemistry Instruments	28	88.0	4.8	5.5	87	61 - 115
Siemens Automated HDL						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	37	84.6	3.3	3.9	84	59 - 111
Vital Diagnostics Direct						
Vital Diagnostics ATAC 8000	11	104.6	9.4	9.0	103	73 - 137
Vital Diagnostics Envoy 500	11	115.9	7.8	6.7	113	81 - 151
All Chemistry Instruments	23	110.7	10.2	9.2	112	77 - 144
VITROS						
All Chemistry Instruments	16	104.1	17.5	16.8	106	72 - 136
VITROS dHDL Slide						
VITROS 250,350,500,700,750,950	27	107.4	7.7	7.1	108	75 - 140
All Chemistry Instruments	33	107.4	8.0	7.5	108	75 - 140

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	420	118.9	8.2	6.9	118	89 - 149	418	112.3	6.5	5.8	112	84 - 141
All Roche Integra/c111/c501												
Reagents	45	115.8	5.0	4.3	115	86 - 145	45	110.4	4.8	4.3	110	82 - 138
Abaxis Piccolo												
Abaxis Piccolo - waived	11	126.7	3.3	2.6	127	95 - 159	11	118.5	3.1	2.6	118	88 - 149
All Chemistry Instruments	17	126.3	2.9	2.3	126	94 - 158	17	118.3	2.7	2.3	118	88 - 148
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	56	113.4	4.6	4.1	114	85 - 142	56	110.7	4.5	4.1	111	83 - 139
All Chemistry Instruments	57	113.4	4.6	4.1	114	85 - 142	57	110.7	4.5	4.1	111	83 - 139
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	16	120.3	5.0	4.1	120	90 - 151	16	112.8	4.7	4.1	113	84 - 142
All Chemistry Instruments	25	121.8	7.1	5.8	120	91 - 153	24	114.0	5.4	4.8	113	85 - 143
Cholestech LDX												
Cholestech LDX - waived	38	110.6	5.0	4.5	110	82 - 139	39	104.3	5.1	4.9	105	78 - 131
All Chemistry Instruments	43	110.9	4.8	4.3	110	83 - 139	44	104.5	5.1	4.9	106	78 - 131
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	118.4	5.0	4.2	120	88 - 148	17	112.8	3.8	3.4	112	84 - 142
Olympus												
Olympus AU	21	120.9	2.7	2.3	121	90 - 152	20	113.0	2.2	2.0	113	84 - 142
Pointe Scientific												
All Chemistry Instruments	12	113.6	7.3	6.4	117	85 - 142	12	110.1	4.1	3.7	111	82 - 138
Roche Integra												
Roche Integra	39	115.1	4.3	3.8	115	86 - 144	37	109.6	2.8	2.6	110	82 - 138
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	52	120.5	3.7	3.1	120	90 - 151	52	111.5	3.2	2.9	112	83 - 140
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	123.3	6.3	5.1	125	92 - 155	16	115.1	5.9	5.2	116	86 - 144
Vital Diagnostics Envoy 500	16	123.7	8.2	6.6	124	92 - 155	16	114.7	4.4	3.8	115	86 - 144
All Chemistry Instruments	33	123.6	7.1	5.7	124	92 - 155	33	115.0	5.1	4.4	115	86 - 144
VITROS												
VITROS 250,350,500,700,750,950	37	131.5	6.3	4.8	131	98 - 165	38	121.9	6.5	5.3	123	91 - 153
All Chemistry Instruments	50	130.6	6.2	4.8	131	97 - 164	50	120.5	5.7	4.7	120	90 - 151

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	381	122.3	6.1	5.0	122	91 - 153	383	129.8	7.6	5.8	129	97 - 163
All Roche Integra/c111/c501												
Reagents	45	120.0	5.2	4.3	120	89 - 150	45	126.2	5.5	4.4	127	94 - 158
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	129	95 - 160	6	-	-	-	138	102 - 172
All Chemistry Instruments	11	127.5	2.1	1.6	127	95 - 160	11	137.0	1.5	1.1	137	102 - 172
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	56	122.0	5.0	4.1	123	91 - 153	56	125.8	5.4	4.3	126	94 - 158
Beckman - cartridge	57	122.1	5.0	4.1	123	91 - 153	57	125.8	5.3	4.2	126	94 - 158
Beckman Synchron												
Beckman Synchron LX/Pro/DxC	16	122.1	5.9	4.8	122	91 - 153	16	131.6	6.0	4.5	130	98 - 165
All Chemistry Instruments	25	123.1	6.6	5.3	122	92 - 154	25	132.6	6.4	4.8	131	99 - 166
Cholestech LDX												
Cholestech LDX - waived	20	117.2	5.2	4.4	118	87 - 147	20	122.2	4.9	4.0	123	91 - 153
All Chemistry Instruments	23	117.2	4.9	4.2	117	87 - 147	23	122.9	5.5	4.5	123	92 - 154
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	121.2	4.9	4.0	121	90 - 152	17	128.7	5.8	4.5	129	96 - 161
Olympus												
Olympus AU	21	121.0	2.7	2.3	121	90 - 152	21	129.9	3.0	2.3	130	97 - 163
Pointe Scientific												
All Chemistry Instruments	12	118.8	3.1	2.6	120	89 - 149	12	124.5	4.6	3.7	126	93 - 156
Roche Integra												
Roche Integra	39	119.4	4.7	3.9	120	89 - 150	37	125.5	3.5	2.8	126	94 - 157
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	52	120.0	3.2	2.7	120	90 - 151	53	129.3	3.0	2.3	129	96 - 162
Vital Diagnostics												
Vital Diagnostics ATAC 8000	15	123.1	5.4	4.4	125	92 - 154	16	130.9	7.2	5.5	134	98 - 164
Vital Diagnostics Envoy 500	16	124.1	8.0	6.4	123	93 - 156	15	131.7	6.0	4.6	134	98 - 165
All Chemistry Instruments	32	123.6	6.7	5.4	124	92 - 155	32	131.4	6.5	4.9	134	98 - 165
VITROS												
VITROS 250,350,500,700,750,950	38	131.6	7.2	5.5	131	98 - 165	37	143.1	6.8	4.7	142	107 - 179
All Chemistry Instruments	50	130.2	6.1	4.7	130	97 - 163	50	142.1	6.5	4.6	142	106 - 178

Triglycerides (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	386	175.0	11.4	6.5	173	131 - 219
All Roche Integra/c111/c501						
Reagents	45	168.1	7.0	4.1	168	126 - 211
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	185	138 - 232
All Chemistry Instruments	11	184.9	2.3	1.3	185	138 - 232
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	57	166.8	7.6	4.6	167	125 - 209
Beckman - cartridge	58	166.8	7.6	4.5	167	125 - 209
Beckman Synchron						
Beckman Synchron LX/Pro/DxC	16	179.0	7.3	4.1	181	134 - 224
All Chemistry Instruments	25	179.5	7.6	4.2	180	134 - 225
Cholestech LDX						
Cholestech LDX - waived	20	172.8	8.2	4.8	172	129 - 216
All Chemistry Instruments	23	173.2	8.1	4.7	172	129 - 217
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	171.5	5.7	3.3	170	128 - 215
Olympus						
Olympus AU	21	172.7	3.9	2.3	172	129 - 216
Pointe Scientific						
All Chemistry Instruments	12	167.5	2.8	1.7	168	125 - 210
Roche Integra						
Roche Integra	37	167.0	4.8	2.9	168	125 - 209
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	53	173.5	3.8	2.2	173	130 - 217
Vital Diagnostics						
Vital Diagnostics ATAC 8000	16	177.7	6.9	3.9	180	133 - 223
Vital Diagnostics Envoy 500	16	175.6	6.4	3.6	177	131 - 220
All Chemistry Instruments	33	176.6	6.5	3.7	178	132 - 221
VITROS						
VITROS 250,350,500,700,750,950	37	197.4	8.9	4.5	199	148 - 247
All Chemistry Instruments	50	196.2	8.6	4.4	197	147 - 246

Acetaminophen (mcg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	38.24	3.27	8.6	38.1	28.4 - 48.1	8	13.76	2.77	20.1	14.5	5.4 - 22.1
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	16.49	3.38	20.5	17.0	6.3 - 26.7	8	40.79	3.20	7.8	40.8	31.1 - 50.4
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	8	96.95	7.21	7.4	98.1	75.3 - 118.6						

Amikacin (mcg/mL)

One participant reported results for Amikacin. The vendor assay values for specimens CH-11 through CH-15 are: 13.5 mcg/mL, 12.1 mcg/mL, 15.2 mcg/mL, 17.0 mcg/mL, and 29.9 mcg/mL, respectively.

Carbamazepine (mcg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	4.80	0.21	4.4	4.8	3.6 - 6.0	12	9.72	0.38	3.9	9.8	7.2 - 12.2
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	12.68	0.53	4.2	12.9	9.5 - 15.9	12	7.87	0.23	2.9	7.9	5.9 - 9.9
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	6.78	0.34	5.1	6.8	5.0 - 8.5						

Digoxin (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	42	1.30	0.17	13.3	1.3	1.0 - 1.6	42	1.21	0.16	13.4	1.2	0.9 - 1.5
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	42	1.46	0.16	10.9	1.5	1.1 - 1.8	42	1.56	0.19	12.4	1.6	1.2 - 1.9
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	42	2.46	0.23	9.4	2.5	1.9 - 3.0						

Gentamicin (mcg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u> <u>n</u>	<u>Range</u>
All Method	2	-	-	-	9.8	Not graded	2	-	-	-	6.7	Not graded
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	4.2	Not graded	2	-	-	-	7.1	Not graded
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	5.2	Not graded						

Lithium (mmol/L)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u> <u>n</u>	<u>Range</u>
All Method	3	-	-	-	2.0	Not graded	3	-	-	-	1.7	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				<u>Labs</u>	<u>Mean</u>	Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u> <u>n</u>	<u>Range</u>
All Method	3	-	-	-	1.3	Not graded	3	-	-	-	1.6	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15				<u>Labs</u>	<u>Mean</u>	Specimen CH-16			
			<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>
All Method	3	-	-	-	0.9	Not graded						

Phenobarbital (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u> <u>n</u>	<u>Range</u>
All Method	9	24.28	1.54	6.4	23.7	19.4 - 29.2	9	22.96	1.11	4.9	23.0	18.3 - 27.6
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				<u>Labs</u>	<u>Mean</u>	Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u> <u>n</u>	<u>Range</u>
All Method	9	26.68	0.96	3.6	26.7	21.3 - 32.1	9	27.03	1.19	4.4	27.0	21.6 - 32.5
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15				<u>Labs</u>	<u>Mean</u>	Specimen CH-16			
			<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>
All Method	9	39.07	2.92	7.5	39.9	31.2 - 46.9						

Phenytoin (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	8.80	0.61	6.9	8.7	6.5 - 11.0	20	19.05	1.36	7.1	19.1	14.2 - 23.9
			Specimen CH-13						Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	25.23	2.14	8.5	25.2	18.9 - 31.6	20	14.98	0.93	6.2	15.1	11.2 - 18.8
			Specimen CH-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	12.98	0.89	6.9	13.0	9.7 - 16.3						

Salicylate (mg/dL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	11.68	1.76	15.0	11.0	6.40 - 17.0	5	7.88	0.92	11.6	8.0	5.1 - 10.7
			Specimen CH-13						Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	10.4	0.41	3.9	10.4	9.1 - 11.7	5	13.86	0.78	5.6	13.7	11.5 - 16.2
			Specimen CH-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	29.78	0.91	3.0	30	27.0 - 32.6						

Theophylline (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	19.57	1.17	6.0	19.7	14.6 - 24.5	9	31.91	1.83	5.7	31.5	23.9 - 39.9
			Specimen CH-13						Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	36.41	2.09	5.7	36.7	27.3 - 45.6	9	24.08	1.59	6.6	23.7	18.0 - 30.1
			Specimen CH-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	13.63	0.70	5.1	13.7	10.2 - 17.1						

Valproic Acid (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	106.46	8.61	8.1	106.9	79.8 - 133.1	13	68.65	2.89	4.2	68.0	51.4 - 85.9
			Specimen CH-13						Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	56.16	2.14	3.8	56.2	42.1 - 70.3	13	91.93	4.22	4.6	91.0	68.9 - 115.0
			Specimen CH-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	127.51	6.99	5.5	126.4	95.6 - 159.4						

Vancomycin (mcg/mL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	16.50	0.84	5.1	16.7	13.9 - 19.1	7	15.61	0.95	6.1	15.5	12.7 - 18.5
Specimen CH-13							Specimen CH-14					
All Method	7	21.41	0.76	3.6	21.7	19.1 - 23.8	7	22.37	0.79	3.5	22.4	20.0 - 24.8
Specimen CH-15												
All Method	7	42.16	1.43	3.4	42.0	37.8 - 46.5						

Apolipoprotein A1 (mg/dL)

Specimen LP-5							Specimen LP-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	38.8	14.4	37.0	38	0 - 82	11	45.5	10.8	23.8	46	13 - 79
Kamiya Biomedical	5	39.0	9.1	23.3	38	11 - 67	5	46.4	9.2	19.8	46	18 - 74

Apolipoprotein B (mg/dL)

Specimen LP-5							Specimen LP-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	58.0	7.4	12.7	56	35 - 81	10	43.9	4.9	11.2	42	29 - 59

Neonatal Bilirubin, Total (mg/dL)

Specimen NB-11							Specimen NB-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	14.29	1.47	10.3	14.6	11.4 - 17.2	27	3.60	0.37	10.2	3.6	2.8 - 4.4
No Reagent Required												
All Chemistry Instruments	13	15.44	0.37	2.4	15.5	12.3 - 18.6	13	3.75	0.35	9.4	3.6	2.9 - 4.5
Specimen NB-13							Specimen NB-14					
All Method	28	6.90	1.05	15.2	6.9	5.5 - 8.3	27	1.44	0.26	17.8	1.4	1.0 - 1.9
No Reagent Required												
All Chemistry Instruments	13	7.79	0.50	6.5	8.0	6.2 - 9.4	13	1.50	0.27	18.1	1.4	1.1 - 1.9
Specimen NB-15												
All Method	28	22.45	3.37	15.0	21.6	17.9 - 27.0						
No Reagent Required												
All Chemistry Instruments	13	25.35	2.22	8.7	26.6	20.2 - 30.5						

Bilirubin, Direct (mg/dL)

Specimen NB-11							Specimen NB-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	3.75	0.52	13.9	3.6	2.1 - 5.4	12	1.49	0.27	18.0	1.4	0.6 - 2.3

Blood Gases – pH

Specimen BG-11							Specimen BG-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	7.615	0.027	0.4	7.62	7.57 - 7.66	19	7.146	0.026	0.4	7.16	7.10 - 7.19
i-STAT	10	7.636	0.012	0.2	7.64	7.59 - 7.68	10	7.165	0.005	0.1	7.17	7.12 - 7.21
Specimen BG-13							Specimen BG-14					
All Method	19	7.442	0.020	0.3	7.45	7.40 - 7.49	19	7.651	0.029	0.4	7.65	7.61 - 7.70
i-STAT	10	7.449	0.007	0.1	7.45	7.40 - 7.49	10	7.670	0.012	0.2	7.67	7.63 - 7.71
Specimen BG-15												
All Method	19	7.268	0.019	0.3	7.27	7.22 - 7.31						
i-STAT	10	7.281	0.010	0.1	7.28	7.24 - 7.33						

Blood Gases - pCO₂ (mmHg)

Specimen BG-11							Specimen BG-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	23.41	1.60	6.8	22.7	18.4 - 28.5	16	69.35	4.73	6.8	67.4	63.8 - 74.9
i-STAT	10	22.72	1.43	6.3	22.3	17.7 - 27.8	8	-	-	-	65.8	63.8 - 74.9
Specimen BG-13							Specimen BG-14					
All Method	19	35.02	2.45	7.0	34.1	30.0 - 40.1	18	21.68	0.97	4.5	21.5	16.6 - 26.7
i-STAT	10	34.19	0.58	1.7	34.0	29.1 - 39.2	10	21.76	1.87	8.6	21.3	16.7 - 26.8
Specimen BG-15												
All Method	18	49.42	3.22	6.5	48.4	44.4 - 54.5						
i-STAT	10	47.46	1.10	2.3	47.6	42.4 - 52.5						

Blood Gases - pO₂ (mmHg)

Specimen BG-11							Specimen BG-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	80.95	9.06	11.2	83.0	53.7 - 108.2	17	164.76	11.92	7.2	165.0	129.0 - 200.6
Specimen BG-13							Specimen BG-14					
All Method	18	96.65	7.01	7.3	96.0	75.6 - 117.7	18	128.62	8.90	6.9	128.0	101.9 - 155.4
Specimen BG-15												
All Method	18	144.50	8.15	5.6	142.0	120.0 - 169.0						

Blood Gases - Ionized Calcium (mmol/L)

One participant reported results for Blood Gases – Ionized Calcium. The vendor assay mean values for specimens BG-11 and BG-12 are: 0.87 mmol/L and 1.62 mmol/L, respectively.

Blood Gases – Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-11 through BG-15 are: 103.3 mmol/L, 76.0 mmol/L, 99.9 mmol/L, 118.8 mmol/L, and 85.4 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-11				<u>Labs</u>	<u>Mean</u>	Specimen BG-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	4.8	Not graded	3	-	-	-	7.2	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-13				<u>Labs</u>	<u>Mean</u>	Specimen BG-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	4.2	Not graded	3	-	-	-	6.6	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-15				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	2.5	Not graded						

Blood Gases - Sodium (mmol/L)

Specimen BG-11							Specimen BG-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	140	Not graded	3	-	-	-	110	Not graded
Specimen BG-13							Specimen BG-14					
All Method	3	-	-	-	135	Not graded	3	-	-	-	155	Not graded
Specimen BG-15												
All Method	3	-	-	-	122	Not graded						

Glycohemoglobin (percent)

Specimen GH-5							Specimen GH-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	326	9.26	0.42	4.5	9.3	8.0 - 10.6	327	5.93	0.28	4.7	5.9	5.0 - 6.8
All Hemoglobin A1c Methods	324	9.26	0.41	4.5	9.3	8.0 - 10.5	327	5.93	0.28	4.7	5.9	5.0 - 6.8
Bayer DCA 2000/+	43	9.47	0.37	3.9	9.6	8.3 - 10.6	42	6.05	0.22	3.6	6.1	5.3 - 6.7
Beckman Synchron HbA1C	10	9.41	0.36	3.8	9.6	8.3 - 10.5	10	5.94	0.32	5.5	6.1	4.9 - 7.0
Bio-Rad D-10 HbA1C	14	9.47	0.21	2.2	9.5	8.8 - 10.1	14	6.22	0.21	3.4	6.2	5.5 - 6.9
Olympus AU A1c	12	9.43	0.31	3.3	9.4	8.5 - 10.4	12	5.78	0.28	4.9	5.8	4.9 - 6.7
Roche Integra A1C	21	9.20	0.42	4.5	9.1	7.9 - 10.5	21	5.92	0.29	4.9	5.8	5.0 - 6.8
Siemens DCA Vantage	115	9.22	0.28	3.1	9.2	8.3 - 10.1	115	5.91	0.19	3.2	5.9	5.3 - 6.5
Siemens Dimension HA1C	40	8.96	0.42	4.6	8.9	7.7 - 10.3	39	5.82	0.19	3.2	5.8	5.2 - 6.4
TOSOH G7	10	9.48	0.14	1.5	9.6	9.0 - 9.9	10	6.20	0.21	3.3	6.2	5.5 - 6.9

B-Type Natriuretic Peptide (BNP)

<u>Method</u>	Specimen BNP-5						Specimen BNP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	42	477.4	44.1	9.2	462	345 - 610	41	1793.1	322.3	18.0	1750	826 - 2761
Biosite Triage	41	477.8	44.6	9.3	470	343 - 612	39	1819.3	294.5	16.2	1810	935 - 2703

NT-proBNP

<u>Method</u>	Specimen BNP-5						Specimen BNP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	370.4	255.8	69.1	398	0 - 1138	5	1814.0	1190.2	65.6	2040	0 - 5385

Afinion Glycohemoglobin (percent)

<u>Method</u>	Specimen AFN-5						Specimen AFN-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Axis-Shield Afinion AS100	46	6.17	0.13	2.1	6.2	5.7 - 6.6	46	8.43	0.18	2.2	8.4	7.8 - 9.0

BNP (pg/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	Specimen TCK-11						Specimen TCK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	41	510.6	71.2	13.9	510	296 - 725	40	1934.8	412.3	21.3	1890	697 - 3172
<u>Method</u>	Specimen TCK-13						Specimen TCK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	40	204.0	28.5	14.0	199	118 - 290	41	937.3	155.6	16.6	881	470 - 1405
<u>Method</u>	Specimen TCK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	40	1372.3	276.9	20.2	1340	541 - 2203						

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

Specimen TCK-11							Specimen TCK-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	42	7.4	1.2	16.6	7	3 - 12	41	32.3	4.5	13.9	32	18 - 46
Specimen TCK-13							Specimen TCK-14					
Biosite Triage	42	2.5	0.6	24.8	2	0 - 5	42	15.7	3.2	20.1	16	6 - 26
Specimen TCK-15												
Biosite Triage	41	22.5	3.3	14.8	23	12 - 33						

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

Specimen TCK-11							Specimen TCK-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u> <u>n</u>	<u>Range</u>
Biosite Triage	35	515.9	70.9	13.7	526	303 - 729	35	1827.4	211.3	11.6	1820	1193 - 2462
Specimen TCK-13							Specimen TCK-14					
Biosite Triage	35	212.3	43.9	20.7	210	80 - 344	34	893.2	100.5	11.3	881	591 - 1195
Specimen TCK-15												
Biosite Triage	35	1276.1	181.3	14.2	1280	732 - 1820						

Myoglobin (ng/mL) – Biosite Triage Cardiac Panel

Specimen TCK-11							Specimen TCK-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	38	138.8	22.7	16.4	139	70 - 207	37	442.2	55.4	12.5	449	276 - 609
Specimen TCK-13							Specimen TCK-14					
Biosite Triage	37	61.0	10.6	17.4	61	29 - 93	38	241.1	40.3	16.7	243	120 - 362
Specimen TCK-15												
Biosite Triage	38	347.3	65.6	18.9	345	150 - 545						

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

Specimen TCK-11							Specimen TCK-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	41	0.357	0.106	29.8	0.35	0.03 - 0.68	41	3.521	0.821	23.3	3.44	1.05 - 5.99
Specimen TCK-13							Specimen TCK-14					
Biosite Triage	39	0.065	0.024	36.4	0.05	0.00 - 0.14	41	1.176	0.287	24.4	1.14	0.31 - 2.04
Specimen TCK-15												
Biosite Triage	39	2.025	0.392	19.3	2.00	0.85 - 3.21						

C-Peptide (ng/mL)

Specimen CIP-5							Specimen CIP-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	4.381	0.602	13.7	4.40	2.57 - 6.19	12	6.373	0.698	11.0	6.10	4.27 - 8.47

Insulin (μU/mL)

Specimen CIP-5							Specimen CIP-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	50.46	20.35	40.3	63.0	0.0 - 111.5	16	67.49	28.66	42.5	86.6	0.0 - 153.5

Parathyroid hormone (pg/mL)

Specimen CIP-5							Specimen CIP-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	82.4	15.2	18.5	79	36 - 129	35	117.9	23.6	20.1	114	46 - 189

Vitamin D

Specimen CIP-5							Specimen CIP-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	35.79	7.09	19.8	35.1	14.5 - 57.1	14	45.91	8.09	17.6	48.7	21.6 - 70.2

CK-MB (ng/mL) Quantitative

Specimen CK-11							Specimen CK-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	13.86	5.15	37.1	14.8	0.0 - 29.3	26	67.33	25.89	38.5	73.0	0.0 - 145.0
Specimen CK-13							Specimen CK-14					
All Method	26	4.87	2.13	43.7	5.1	0.0 - 11.3	26	29.33	11.11	37.9	30.9	0.0 - 62.7
Specimen CK-15												
All Method	26	44.98	18.01	40.0	47.3	0.0 - 99.1						

CK-MB (Qualitative)

		Specimen CK-11		Specimen CK-12		Specimen CK-13	
<u>Method</u>		<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS		2	-	2	-	1	1
LifeSign MI		2	-	2	-	1	1
		Specimen CK-14		Specimen CK-15			
ALL METHODS		2	-	2	-		
LifeSign MI		2	-	2	-		

Specimen CK-13 is an ungraded challenge due to less than 80% participant consensus.

Myoglobin (Quantitative)

Specimen CK-11							Specimen CK-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	104.49	30.54	29.2	118.0	12.8 - 196.1	15	399.71	157.0 8	39.3	423.0	0.0 - 871.0

Myoglobin (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	2	3	-
LifeSign MI	-	2	2	-

Specimen CK-11 is an ungraded challenge due to less than 80% participant consensus.

Troponin I (ng/mL) Quantitative

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	25	1.07	1.38	129.0	0.8	0.0 - 5.3	27	9.82	13.50	137.4	5.4	0.0 - 50.4

Troponin I (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	-	2	-
LifeSign MI	2	-	2	-

PSA (ng/mL)

<u>Method</u>	Specimen PS-5						Specimen PS-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	263	7.177	0.993	13.8	7.04	4.19 - 10.16	264	14.206	2.174	15.3	14.02	7.68 - 20.73
All Roche Elecsys/cobas e 601 Instruments	14	7.598	0.613	8.1	7.71	5.75 - 9.44	14	14.839	1.289	8.7	15.20	10.97 - 18.71
All TOSOH Instruments	60	6.302	0.292	4.6	6.31	5.42 - 7.18	60	12.174	0.604	5.0	12.20	10.36 - 13.99
Abbott AxSYM	16	6.339	0.327	5.2	6.30	5.35 - 7.33	16	12.380	0.628	5.1	12.50	10.49 - 14.27
Abbott AxSYM Total PSA	16	6.123	0.487	7.9	6.20	4.66 - 7.59	16	12.238	1.096	9.0	12.41	8.95 - 15.53
Beckman ACCESS / 2 / Dxl	17	8.366	0.660	7.9	8.43	6.38 - 10.35	17	16.710	1.355	8.1	16.60	12.64 - 20.78
Beckman ACCESS Hybritech PSA	26	8.325	0.518	6.2	8.29	6.76 - 9.89	26	16.555	1.002	6.1	16.45	13.54 - 19.57
bioMerieux Vidas, Mini Vidas	47	7.984	0.433	5.4	7.92	6.68 - 9.29	47	15.736	0.989	6.3	15.52	12.76 - 18.71
Qualigen FastPack	10	8.470	1.254	14.8	8.40	4.70 - 12.24	11	18.027	1.861	10.3	18.50	12.44 - 23.62
Roche Elecsys 1010/2010	14	7.598	0.613	8.1	7.71	5.75 - 9.44	14	14.839	1.289	8.7	15.20	10.97 - 18.71
Siemens Dimension TPSA	28	6.795	0.317	4.7	6.80	5.84 - 7.75	28	13.557	0.600	4.4	13.65	11.75 - 15.36
TOSOH AIA	15	6.289	0.294	4.7	6.31	5.40 - 7.18	15	12.156	0.666	5.5	12.20	10.15 - 14.16
TOSOH ST AIA	45	6.307	0.295	4.7	6.30	5.42 - 7.20	45	12.180	0.590	4.8	12.20	10.41 - 13.95

Alpha-fetoprotein (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	174.0	3.0	1.7	175	165 - 183	5	88.4	2.3	2.6	88	81 - 96

Beta-2 microglobulin

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	1.867	0.120	6.4	1.90	1.50 - 2.23	6	1.117	0.128	11.5	1.20	0.73 - 1.51

CA 125 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	88.5	18.5	21.0	92	32 - 145	21	49.6	10.4	20.9	52	18 - 81
TOSOH ST AIA	11	104.5	7.3	6.9	105	82 - 127	11	58.5	3.8	6.5	58	47 - 70

CA 15-3 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	66.9	15.9	23.8	76	19 - 115	16	39.7	9.0	22.7	45	12 - 67

CA 19-9 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	34.0	9.4	27.6	33	5 - 63	6	21.5	5.3	24.7	21	5 - 38

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	79.5	6.7	8.4	80	59 - 100	13	48.3	2.8	5.9	49	39 - 57
All TOSOH Instruments	13	79.5	6.7	8.4	80	59 - 100	13	48.3	2.8	5.9	49	39 - 57
TOSOH ST AIA	12	79.9	6.8	8.5	81	59 - 101	12	48.6	2.8	5.7	49	40 - 57

CEA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	31	23.88	6.26	26.2	21.7	5.1 - 42.7	31	12.96	3.28	25.3	11.5	3.1 - 22.8
All TOSOH Instruments	12	30.80	1.35	4.4	30.4	26.7 - 34.9	12	16.31	0.99	6.1	16.4	13.3 - 19.3
TOSOH ST AIA	11	30.79	1.42	4.6	30.3	26.5 - 35.1	11	16.27	1.04	6.4	16.4	13.1 - 19.4

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	10.014	1.805	18.0	9.14	4.59 - 15.43	23	5.064	0.934	18.4	4.65	2.26 - 7.87

PSA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	56	10.540	1.507	14.3	10.40	6.02 - 15.07	57	5.271	0.745	14.1	5.17	3.03 - 7.51
All TOSOH Instruments	12	9.237	0.487	5.3	9.25	7.77 - 10.70	12	4.636	0.243	5.2	4.70	3.90 - 5.37
Beckman ACCESS Hybritech PSA	13	12.167	0.661	5.4	11.96	10.18 - 14.15	13	6.069	0.298	4.9	6.10	5.17 - 6.97
TOSOH ST AIA	12	9.237	0.487	5.3	9.25	7.77 - 10.70	12	4.636	0.243	5.2	4.70	3.90 - 5.37

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	22.13	4.75	21.5	22.4	7.8 - 36.4	7	11.07	2.78	25.1	10.7	2.7 - 19.5

CEA (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	11.16	2.27	20.3	9.8	4.3 - 18.0	21	21.47	4.11	19.1	18.9	9.1 - 33.8

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	44	123.8	64.0	51.7	126	0 - 316	43	182.4	93.9	51.5	188	0 - 465
Beckman ACCESS / 2 / Dxl	10	131.8	14.0	10.6	136	89 - 174	10	205.2	17.3	8.4	210	153 - 258
TOSOH ST AIA	11	188.7	20.8	11.0	189	126 - 252	11	287.1	29.2	10.2	283	199 - 375

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	152	80.4	11.6	14.5	78	45 - 116	152	150.4	20.5	13.6	148	88 - 212
All Abbott Instruments	15	99.1	10.1	10.2	96	68 - 130	15	183.4	18.6	10.1	179	127 - 240
All Immulite Instruments	12	88.7	5.8	6.5	89	71 - 106	11	164.7	6.7	4.1	166	144 - 185
All TOSOH Instruments	32	72.7	4.3	5.9	72	59 - 86	32	138.6	7.2	5.2	138	116 - 161
Abbott AxSYM	11	94.5	7.2	7.6	94	72 - 117	11	174.7	10.7	6.1	175	142 - 207
Beckman ACCESS / 2 / Dxl	40	70.8	5.2	7.4	70	55 - 87	40	133.5	10.3	7.7	132	102 - 165
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	91.9	4.6	5.1	92	78 - 106	17	168.1	7.8	4.7	168	144 - 192
TOSOH ST AIA	25	72.2	4.3	5.9	72	59 - 85	25	137.2	7.1	5.2	137	115 - 159

Folate (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	3.69	0.73	19.8	3.5	1.5 - 5.9	86	6.67	1.23	18.5	6.4	2.9 - 10.4
Abbott AxSYM	11	4.64	0.58	12.5	4.6	2.8 - 6.4	11	8.28	1.08	13.0	8.8	5.0 - 11.6
Beckman ACCESS / 2 / Dxl	35	3.25	0.27	8.4	3.2	2.4 - 4.1	35	6.21	0.41	6.5	6.2	4.9 - 7.5
TOSOH AIA	11	3.50	0.42	11.9	3.5	2.2 - 4.8	11	5.90	0.72	12.2	6.1	3.7 - 8.1

FSH (mIU/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	58	19.98	1.71	8.6	20.0	14.8 - 25.2	56	33.50	2.48	7.4	33.7	26.0 - 41.0
All Immulite Instruments	13	18.99	0.84	4.4	19.1	16.4 - 21.6	12	33.17	1.58	4.8	33.8	28.4 - 38.0
All TOSOH Instruments	16	20.46	1.08	5.3	20.4	17.2 - 23.8	16	33.35	1.37	4.1	33.6	29.2 - 37.5
Beckman ACCESS / 2 / Dxl	12	20.46	1.67	8.2	20.7	15.4 - 25.5	12	33.42	2.32	7.0	34.4	26.4 - 40.4
TOSOH ST AIA	13	20.34	0.92	4.5	20.4	17.5 - 23.1	13	33.55	1.35	4.0	33.6	29.5 - 37.6

Homocysteine (μmol/L)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	21.9	2.0	9.3	22	15 - 29	17	36.4	2.6	7.1	36	28 - 45

LH (mIU/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	49	15.37	2.98	19.4	14.8	6.4 - 24.4	49	27.12	5.24	19.3	26.7	11.4 - 42.9
All Immulite Instruments	13	19.45	1.79	9.2	19.4	14.0 - 24.9	13	33.16	5.27	15.9	34.2	17.3 - 49.0
TOSOH ST AIA	10	14.58	1.05	7.2	14.6	11.4 - 17.8	10	26.40	2.20	8.3	26.2	19.8 - 33.0

Progesterone (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	14.35	2.34	16.3	14.6	7.3 - 21.4	26	23.01	4.64	20.2	23.9	9.0 - 37.0

Prolactin (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	41	6.08	0.99	16.2	5.9	3.1 - 9.1	40	9.66	1.41	14.6	9.7	5.4 - 13.9
All Immulite Instruments	12	5.39	0.57	10.6	5.3	3.6 - 7.2	12	8.75	0.98	11.1	8.5	5.8 - 11.7

Testosterone (ng/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	87	479.3	84.4	17.6	479	226 - 733	87	750.9	116.4	15.5	728	401 - 1101
Beckman ACCESS / 2 / Dxl	21	403.9	23.2	5.8	405	334 - 474	21	666.1	42.3	6.3	659	539 - 793
DPC Immulite/1000	10	520.8	61.9	11.9	538	335 - 707	9	-	-	-	821	401 - 1101
TOSOH ST AIA	15	526.1	49.1	9.3	531	378 - 674	15	860.9	78.9	9.2	819	624 - 1098

Transferrin (mg/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	127.7	5.4	4.2	128	111 - 144	15	178.7	6.3	3.5	179	159 - 198

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	701.3	92.8	13.2	691	422 - 980	98	918.2	102.0	11.1	929	612 - 1225
Abbott AxSYM	14	683.4	34.9	5.1	680	578 - 789	14	918.5	65.9	7.2	908	720 - 1117
Beckman ACCESS / 2 / Dxl	39	624.8	45.4	7.3	627	488 - 762	38	842.7	61.6	7.3	845	657 - 1028
TOSOH AIA	15	815.8	70.5	8.6	803	604 - 1028	14	1044.3	77.3	7.4	1032	812 - 1277

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-11						Specimen ETH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	220.8	16.8	7.6	224	165 - 276	12	224.6	14.9	6.6	228	168 - 281

<u>Method</u>	Specimen ETH-13						Specimen ETH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	186.3	13.4	7.2	189	139 - 233	12	29.8	2.1	6.9	30	22 - 38

<u>Method</u>	Specimen ETH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	77.3	4.6	6.0	78	57 - 97						

Acetone

<u>Method</u>	Specimen ETH-11					Specimen ETH-12				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
Bayer Acetest	3	3	-	-	-	3	-	-	-	3
	Specimen ETH-13					Specimen ETH-14				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
Bayer Acetest	3	3	-	-	-	3	3	-	-	-
	Specimen ETH-15									
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
Bayer Acetest	3	-	3	-	-					

Anti-Thyroglobulin Antibody (IU/mL)

<u>Method</u>	Specimen THY-5						Specimen THY-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	2857.1	663.0	23.2	3000	868 - 4847	16	14.7	8.6	58.2	20	0 - 41

Anti-Microsomal Antibody (IU/mL)

<u>Method</u>	Specimen THY-5						Specimen THY-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	216.2	67.9	31.4	222	12 - 420	22	5.6	4.7	84.2	10	0 - 20

Urine Drug Screen

Alcohol

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	10	-	10	10	9	1
Dade Behring EMIT II Plus	3	-	3	3	3	-
Microgenics DRI	3	-	3	3	2	1
Roche Integra	1	-	1	1	1	-
Siemens (Dade) Dimension	1	-	1	1	1	-

Acetaminophen

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	8	-	8	8	7	1
BioSite Diagnostics Triage	7	-	7	7	7	-
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1

Amphetamines

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	100	-	100	99	-	99
ACON Laboratories	3	-	3	3	-	3
AMBC Rapid Drug/Tox	11	-	11	11	-	11
Beckman Synchron	1	-	1	1	-	1
BioSite Diagnostics Triage	11	-	11	11	-	11
BMC QuickTox Drug Screen	1	-	1	1	-	1
Dade Behring EMIT II Plus	8	-	8	8	-	8
Diagnostic Reagents, Inc.	1	-	1	1	-	1
Innovacon Multi-CLIN Drug Screen	2	-	2	2	-	2
Innovacon Multi-Drug One Step	2	-	2	2	-	2
Instant Technologies i Cassette	7	-	7	7	-	7
Instant Technologies i Screen	5	-	5	5	-	5
Instant Technologies iCup	4	-	4	4	-	4
Integrated E-Z Split Key Cup / II	5	-	5	4	-	4
MEDTOX Diagnostics	8	-	8	8	-	8
Microgenics DRI	9	-	9	9	-	9
Noble Medical Inc.	2	-	2	2	-	2
Rapid TOX	2	-	2	2	-	2
Roche Integra	1	-	1	1	-	1

Barbiturates

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	72	72	-	71	-	71
Abbott AxSYM	3	3	-	3	-	3
ACON Laboratories	1	1	-	1	-	1
Beckman Synchron	1	1	-	1	-	1
BioSite Diagnostics Triage	11	11	-	11	-	11
BMC QuickTox Drug Screen	1	1	-	1	-	1
Dade Behring EMIT II Plus	5	5	-	5	-	5
Diagnostic Reagents, Inc.	1	1	-	1	-	1
Innovacon Multi-CLIN Drug Screen	1	1	-	1	-	1
Innovacon Multi-Drug One Step	3	3	-	3	-	3
Instant Technologies i Cassette	4	4	-	4	-	4
Instant Technologies i Screen	5	5	-	5	-	5
Instant Technologies iCup	4	4	-	4	-	4
Integrated E-Z Split Key Cup / II	2	2	-	2	-	2
MEDTOX Diagnostics	8	8	-	8	-	8
Microgenics DRI	7	7	-	7	-	7
Noble Medical Inc.	1	1	-	1	-	1
Roche Integra	1	1	-	1	-	1

Benzodiazepines

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	77	-	77	77	-	77
Abbott AxSYM	3	-	3	3	-	3
ACON Laboratories	1	-	1	1	-	1
Beckman Synchron	1	-	1	1	-	1
BioSite Diagnostics Triage	11	-	11	11	-	11
BMC QuickTox Drug Screen	1	-	1	1	-	1
Dade Behring EMIT II Plus	8	-	8	8	-	8
Diagnostic Reagents, Inc.	1	-	1	1	-	1
Innovacon Multi-CLIN Drug Screen	2	-	2	2	-	2
Innovacon Multi-Drug One Step	2	-	2	2	-	2
Instant Technologies i Cassette	3	-	3	3	-	3
Instant Technologies i Screen	5	-	5	5	-	5
Instant Technologies iCup	4	-	4	4	-	4
Integrated E-Z Split Key Cup / II	2	-	2	2	-	2
MEDTOX Diagnostics	8	-	8	8	-	8
Microgenics DRI	8	-	8	8	-	8
Noble Medical Inc.	1	-	1	1	-	1
Phamatech QuickScreen Pro	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1

Burprenophrine

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	12	-	12	12	1	11
Dade Behring EMIT II Plus	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Microgenics CEDIA	3	-	3	3	-	3
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1

Cannabinoids (THC)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	107	1	106	106	105	1
Abbott AxSYM	3	-	3	3	3	-
ACON Laboratories	3	-	3	3	3	-
AMBC Rapid Drug/Tox	12	-	12	12	12	-
Beckman Synchron	1	-	1	1	1	-
BioSite Diagnostics Triage	11	-	11	11	11	-
BMC QuickTox Drug Screen	1	-	1	1	1	-
Dade Behring EMIT II Plus	8	-	8	8	8	-
Diagnostic Reagents, Inc.	1	-	1	1	1	-
Innovacon Multi-CLIN Drug Screen	2	-	2	2	2	-
Innovacon Multi-Drug One Step	1	-	1	1	1	-
InstaCheck Drug Screen	1	-	1	1	1	-
Instant Technologies i Cassette	6	-	6	6	6	-
Instant Technologies i Screen	5	-	5	5	5	-
Instant Technologies iCup	5	-	5	5	5	-
Integrated E-Z Split Key Cup / II	6	-	6	5	5	-
MEDTOX Diagnostics	8	-	8	8	8	-
Microgenics DRI	9	-	9	9	9	-
Noble Medical Inc.	2	-	2	2	2	-
Phamatech QuickScreen Pro	1	-	1	1	1	-
Rapid TOX	2	-	2	2	2	-
Roche Integra	1	-	1	1	1	-

Cocaine Metabolites

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	108	107	1	107	-	107
Abbott AxSYM	3	3	-	3	-	3
ACON Laboratories	3	3	-	3	-	3
AMBC Rapid Drug/Tox	12	12	-	12	-	12
Beckman Synchron	1	1	-	1	-	1
BioSite Diagnostics Triage	11	11	-	11	-	11
BMC QuickTox Drug Screen	1	1	-	1	-	1
Dade Behring EMIT II Plus	8	8	-	8	-	8
Diagnostic Reagents, Inc.	1	1	-	1	-	1
Innovacon Multi-CLIN Drug Screen	2	2	-	2	-	2
Innovacon Multi-Drug One Step	2	2	-	2	-	2
InstaCheck Drug Screen	1	1	-	1	-	1
Instant Technologies i Cassette	6	6	-	6	-	6
Instant Technologies i Screen	5	5	-	5	-	5
Instant Technologies iCup	5	5	-	5	-	5
Integrated E-Z Split Key Cup / II	6	6	-	5	-	5
MEDTOX Diagnostics	8	8	-	8	-	8
Microgenics DRI	9	9	-	9	-	9
Noble Medical Inc.	2	2	-	2	-	2
Phamatech QuickScreen Pro	1	1	-	1	-	1
Rapid TOX	2	2	-	2	-	2
Roche Integra	1	1	-	1	-	1

MDMA

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	22	-	22	22	-	22
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Instant Technologies i Cassette	2	-	2	2	-	2
Instant Technologies iCup	2	-	2	2	-	2
Integrated E-Z Split Key Cup / II	2	-	2	2	-	2
MEDTOX Diagnostics	1	-	1	1	-	1
Microgenics DRI	6	-	6	6	-	6
Noble Medical Inc.	1	-	1	1	-	1

Methadone

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	51	-	51	51	-	51
Abbott AxSYM	3	-	3	3	-	3
Beckman Synchron	1	-	1	1	-	1
BioSite Diagnostics Triage	7	-	7	7	-	7
BMC QuickTox Drug Screen	1	-	1	1	-	1
Dade Behring EMIT II Plus	6	-	6	6	-	6
Diagnostic Reagents, Inc.	1	-	1	1	-	1
Innovacon Multi-Drug One Step	2	-	2	2	-	2
Instant Technologies i Cassette	1	-	1	1	-	1
Instant Technologies i Screen	4	-	4	4	-	4
Instant Technologies iCup	2	-	2	2	-	2
Integrated E-Z Split Key Cup / II	2	-	2	2	-	2
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics DRI	7	-	7	7	-	7
Noble Medical Inc.	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1

Methamphetamines

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	68	-	68	68	-	68
Abbott AxSYM	3	-	3	3	-	3
ACON Laboratories	1	-	1	1	-	1
AMBC Rapid Drug/Tox	12	-	12	12	-	12
BioSite Diagnostics Triage	11	-	11	11	-	11
BMC QuickTox Drug Screen	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
Diagnostic Reagents, Inc.	1	-	1	1	-	1
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Cassette	1	-	1	1	-	1
Instant Technologies i Screen	5	-	5	5	-	5
Instant Technologies iCup	4	-	4	4	-	4
Integrated E-Z Split Key Cup / II	3	-	3	3	-	3
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Phamatech QuickScreen Pro	1	-	1	1	-	1
Rapid TOX	2	-	2	2	-	2

Methaqualone

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	-	2	2	2	-
Dade Behring EMIT II Plus	2	-	2	2	2	-

Morphine

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	1	1	2	1	1
Instant Technologies i Cassette	1	-	1	1	1	-
Integrated E-Z Split Key Cup / II	1	1	-	1	-	1

Opiates

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	105	103	2	104	-	104
Abbott AxSYM	3	3	-	3	-	3
ACON Laboratories	3	2	1	3	-	3
AMBC Rapid Drug/Tox	12	12	-	12	-	12
Beckman Synchron	1	1	-	1	-	1
BioSite Diagnostics Triage	11	11	-	11	-	11
BMC QuickTox Drug Screen	1	1	-	1	-	1
Dade Behring EMIT II Plus	7	7	-	7	-	7
Diagnostic Reagents, Inc.	1	1	-	1	-	1
Innovacon Multi-CLIN Drug Screen	2	2	-	2	-	2
Innovacon Multi-Drug One Step	2	2	-	2	-	2
InstaCheck Drug Screen	1	1	-	1	-	1
Instant Technologies i Cassette	6	6	-	6	-	6
Instant Technologies i Screen	5	5	-	5	-	5
Instant Technologies iCup	4	4	-	4	-	4
Integrated E-Z Split Key Cup / II	5	5	-	4	-	4
MEDTOX Diagnostics	8	8	-	8	-	8
Microgenics DRI	9	9	-	9	-	9
Noble Medical Inc.	2	2	-	2	-	2
Phamatech QuickScreen Pro	1	1	-	1	-	1
Rapid TOX	2	2	-	2	-	2
Roche Integra	1	1	-	1	-	1

Oxycodone

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	36	-	36	36	35	1
Beckman Synchron	1	-	1	1	1	-
BMC QuickTox Drug Screen	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	2	-	2	2	2	-
Instant Technologies i Cassette	3	-	3	3	3	-
Instant Technologies i Screen	2	-	2	2	2	-
Instant Technologies iCup	2	-	2	2	2	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	7	-	7	7	7	-
Noble Medical Inc.	1	-	1	1	1	-

Phencyclidine (PCP)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	72	72	-	71	2	69
Abbott AxSYM	1	1	-	1	-	1
ACON Laboratories	3	3	-	3	-	3
Beckman Synchron	1	1	-	1	-	1
BioSite Diagnostics Triage	11	11	-	11	-	11
Dade Behring EMIT II Plus	6	6	-	6	-	6
Diagnostic Reagents, Inc.	1	1	-	1	-	1
Innovacon Multi-CLIN Drug Screen	2	2	-	2	-	2
Innovacon Multi-Drug One Step	2	2	-	2	-	2
InstaCheck Drug Screen	1	1	-	1	-	1
Instant Technologies i Cassette	6	6	-	6	-	6
Instant Technologies i Screen	5	5	-	5	-	5
Instant Technologies iCup	1	1	-	1	-	1
Integrated E-Z Split Key Cup / II	5	5	-	4	1	3
MEDTOX Diagnostics	7	7	-	7	-	7
Microgenics DRI	5	5	-	5	-	5
Noble Medical Inc.	2	2	-	2	-	2
Roche Integra	1	1	-	1	-	1

Propoxyphene

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	32	-	32	32	-	32
Beckman Synchron	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	4	-	4	4	-	4
Instant Technologies iCup	3	-	3	3	-	3
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	4	-	4	4	-	4
Noble Medical Inc.	3	-	3	3	-	3
Roche Integra	1	-	1	1	-	1

Tricyclic Antidepressants

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	24	23	1	24	-	24
BioSite Diagnostics Triage	7	7	-	7	-	7
Diagnostic Reagents, Inc.	1	-	1	1	-	1
Innovacon Multi-CLIN Drug Screen	2	2	-	2	-	2
Innovacon Multi-Drug One Step	1	1	-	1	-	1
Instant Technologies i Cassette	3	3	-	3	-	3
Instant Technologies i Screen	4	4	-	4	-	4
MEDTOX Diagnostics	3	3	-	3	-	3

Ammonia (μmol/L)

<u>Method</u>	Specimen AMM-5						Specimen AMM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	71.6	1.8	2.5	72	66 - 78	5	115.8	5.3	4.6	119	99 - 132

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-11						Specimen WBG-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	440	284.0	46.8	16.5	273	143 - 425	447	120.4	19.9	16.5	117	60 - 181
Abbott FreeStyle Lite	23	282.9	32.9	11.6	277	184 - 382	23	124.3	10.7	8.6	122	92 - 157
Bayer Contour	88	256.8	51.6	20.1	234	101 - 412	88	101.3	10.6	10.5	97	69 - 134
HemoCue 201	31	276.9	10.7	3.9	275	244 - 310	31	140.5	7.7	5.5	140	117 - 164
Home Diagnostics TrueTrack / TrueBalance	3	-	-	-	600	Not graded	12	372.0	11.9	3.2	373	336 - 408
Lifescan One Touch Ultra/2/Mini	52	310.2	14.5	4.7	313	266 - 354	51	137.0	7.2	5.3	137	115 - 159
LifeScan SureStep Flex	22	382.7	17.7	4.6	384	329 - 436	22	141.5	5.7	4.0	141	124 - 159
Other Waived Method	13	466.7	102.4	21.9	491	159 - 774	14	192.1	66.3	34.5	179	0 - 392
Roche Accu-Chek Advantage/Comp/GTS	83	267.1	9.5	3.6	267	238 - 296	81	106.2	4.4	4.1	106	93 - 120
Roche Accu-Chek Aviva	35	264.8	14.2	5.4	262	222 - 308	36	121.1	6.4	5.3	122	101 - 141
Roche Accu-Chek Inform	45	268.6	12.5	4.6	268	231 - 307	45	107.2	4.6	4.3	107	93 - 121

Whole Blood Glucose (mg/dL)

Specimen WBG-13							Specimen WBG-14					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	40	88.6	11.6	13.1	91	53 - 124	40	193.8	25.6	13.2	203	117 - 271
Abbott FreeStyle Lite	2	-	-	-	102	53 - 124	2	-	-	-	211	117 - 271
Bayer Contour	6	-	-	-	72	53 - 124	6	-	-	-	158	117 - 271
Home Diagnostics TrueTrack / TrueBalance	2	-	-	-	298	Not graded	2	-	-	-	523	Not graded
Lifescan One Touch Ultra/2/Mini	19	93.6	5.9	6.3	94	75 - 112	19	209.3	8.1	3.9	210	184 - 234
Roche Accu-Chek												
Advantage/Comp/GTS	6	-	-	-	75	53 - 124	6	-	-	-	164	117 - 271
Roche Accu-Chek Aviva	3	-	-	-	87	53 - 124	3	-	-	-	177	117 - 271
Specimen WBG-15												
All Method	40	317.0	36.4	11.5	322							
Abbott FreeStyle Lite	2	-	-	-	360							
Bayer Contour	6	-	-	-	255							
Lifescan One Touch Ultra/2/Mini	19	332.5	13.8	4.1	334							
Roche Accu-Chek												
Advantage/Comp/GTS	6	-	-	-	305							
Roche Accu-Chek Aviva	3	-	-	-	289							

Fructosamine (mmol/L)

<u>Method</u>	Specimen FR-5						Specimen FR-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.094	0.175	16.0	1.10	0.56 - 1.62	5	2.678	0.367	13.7	2.70	1.57 - 3.78

Fructosamine (μmol/L)

<u>Method</u>	Specimen FR-5						Specimen FR-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	505.4	226.0	44.7	439	0 - 1184	10	1196.9	555.5	46.4	1060	0 - 2864
Roche Integra	5	423.8	18.5	4.4	429	368 - 480	5	961.2	58.5	6.1	948	785 - 1137

Blood Oximetry - Carboxyhemoglobin (percent)

One participant reported results for Carboxyhemoglobin. The vendor mean assay values for specimens CX-11 through CX-15 are: 29.2 percent, 14.2 percent, 4.8 percent, 35.7 percent, and 8.3 percent, respectively.

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