

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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

Chemistry
MLE – M1

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		Vitamin D	101

2012 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-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	109.8	0.8	0.7	110	105 - 114	86	148.4	1.3	0.9	149	144 - 153
All i-STAT Instruments	85	109.8	0.8	0.7	110	105 - 114	85	148.4	1.3	0.9	148	144 - 153
i-STAT - moderate	18	110.3	0.8	0.7	110	106 - 115	18	148.7	1.2	0.8	149	144 - 153
i-STAT - waived	67	109.6	0.7	0.6	110	105 - 114	67	148.3	1.4	0.9	148	144 - 153

<u>Instrument</u>	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	66	133.9	1.1	0.8	134	129 - 138	66	165.8	1.7	1.0	166	161 - 170
All i-STAT Instruments	65	133.9	1.1	0.8	134	129 - 138	65	165.8	1.7	1.0	166	161 - 170
i-STAT - moderate	14	134.4	0.8	0.6	135	130 - 139	14	165.9	1.1	0.7	166	161 - 170
i-STAT - waived	51	133.8	1.1	0.8	134	129 - 138	51	165.8	1.8	1.1	166	161 - 170

<u>Instrument</u>	Specimen IST-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	64	121.9	0.8	0.6	122	117 - 126
All i-STAT Instruments	63	121.9	0.8	0.6	122	117 - 126
i-STAT - moderate	14	122.1	0.8	0.6	122	118 - 127
i-STAT - waived	51	121.7	0.9	0.7	122	117 - 126

Potassium (mmol/L)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	2.34	0.05	2.1	2.3	1.8 - 2.9	85	5.31	0.06	1.1	5.3	4.8 - 5.9
All i-STAT Instruments	84	2.34	0.05	2.1	2.3	1.8 - 2.9	83	5.31	0.06	1.1	5.3	4.8 - 5.9
i-STAT - moderate	18	2.33	0.05	2.1	2.3	1.8 - 2.9	18	5.31	0.06	1.1	5.3	4.8 - 5.9
i-STAT - waived	66	2.34	0.05	2.1	2.3	1.8 - 2.9	65	5.31	0.06	1.2	5.3	4.8 - 5.9

<u>Instrument</u>	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	66	3.22	0.04	1.3	3.2	2.7 - 3.8	66	6.92	0.08	1.2	6.9	6.4 - 7.5
All i-STAT Instruments	64	3.22	0.04	1.3	3.2	2.7 - 3.8	64	6.92	0.08	1.1	6.9	6.4 - 7.5
i-STAT - moderate	13	3.20	0.00	0.0	3.2	2.7 - 3.7	14	6.91	0.06	0.9	6.9	6.4 - 7.5
i-STAT - waived	50	3.22	0.05	1.4	3.2	2.7 - 3.8	50	6.92	0.08	1.2	6.9	6.4 - 7.5

<u>Instrument</u>	Specimen IST-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	61	2.90	0.00	0.0	2.9	2.4 - 3.4
All i-STAT Instruments	60	2.90	0.00	0.0	2.9	2.4 - 3.4
i-STAT - moderate	14	2.90	0.00	0.0	2.9	2.4 - 3.4
i-STAT - waived	46	2.90	0.00	0.0	2.9	2.4 - 3.4

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	81	80.3	1.1	1.4	80	76 - 85	82	117.0	2.0	1.7	117	111 - 123
All i-STAT Instruments	79	80.3	1.2	1.4	80	76 - 85	78	116.8	1.7	1.5	117	110 - 123
i-STAT - moderate	15	80.1	1.2	1.6	80	76 - 85	15	116.5	1.2	1.1	117	110 - 123
i-STAT - waived	65	80.4	1.2	1.5	80	76 - 85	65	117.1	2.1	1.8	117	111 - 123

Specimen IST-3							Specimen IST-4					
All Method	59	91.9	1.0	1.1	92	87 - 97	61	120.8	2.3	1.9	120	114 - 127
All i-STAT Instruments	57	91.9	1.0	1.1	92	87 - 97	59	120.7	2.3	1.9	120	114 - 127
i-STAT - moderate	11	91.7	1.2	1.3	92	87 - 97	11	120.0	1.1	0.9	120	114 - 126
i-STAT - waived	50	92.3	1.6	1.7	92	87 - 97	49	121.1	2.7	2.2	120	115 - 128

			Specimen IST-5			
All Method	60	88.4	1.1	1.3	88	83 - 93
All i-STAT Instruments	58	88.3	1.0	1.2	88	83 - 93
i-STAT - moderate	11	88.2	0.9	1.0	88	83 - 93
i-STAT - waived	47	88.3	1.1	1.2	88	83 - 93

CO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	66	14.7	0.6	4.4	15	12 - 17	68	28.9	0.9	3.0	29	26 - 32
All i-STAT Instruments	66	14.7	0.6	4.4	15	12 - 17	68	28.9	0.9	3.0	29	26 - 32
i-STAT - waived	59	14.7	0.8	5.3	15	12 - 18	59	28.8	0.8	2.9	29	26 - 32

Specimen IST-3						Specimen IST-4						
All Method	51	21.0	0.7	3.2	21	18 - 24	51	48.4	1.3	2.8	48	44 - 53
All i-STAT Instruments	51	21.0	0.7	3.2	21	18 - 24	51	48.4	1.3	2.8	48	44 - 53
i-STAT - waived	45	21.0	0.6	2.9	21	19 - 23	46	48.4	1.4	2.8	49	44 - 53

			Specimen IST-5			
All Method	50	21.7	0.7	3.1	22	19 - 24
All i-STAT Instruments	50	21.7	0.7	3.1	22	19 - 24
i-STAT - waived	45	21.7	0.6	2.9	22	19 - 24

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen IST-1				<u>Labs</u>	<u>Mean</u>	Specimen IST-2			
			<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	80	96.4	2.2	2.3	96	87 - 106	73	11.0	0.0	0.0	11	9 - 13
All i-STAT Instruments	78	96.4	2.3	2.3	96	87 - 106	72	11.0	0.0	0.0	11	9 - 13
i-STAT - moderate	14	96.4	2.2	2.3	96	87 - 106	14	11.0	0.0	0.0	11	9 - 13
i-STAT - waived	64	96.5	2.3	2.4	96	87 - 106	58	11.0	0.0	0.0	11	9 - 13
			Specimen IST-3						Specimen IST-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	64	32.6	0.9	2.8	32	29 - 36	64	8.8	0.5	5.2	9	6 - 11
All i-STAT Instruments	62	32.6	0.9	2.8	33	29 - 36	62	8.8	0.5	5.1	9	6 - 11
i-STAT - moderate	11	32.5	1.0	3.2	32	29 - 36	10	9.0	0.0	0.0	9	7 - 11
i-STAT - waived	51	32.6	0.9	2.7	33	29 - 36	51	8.8	0.5	5.4	9	6 - 11
			Specimen IST-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	64	49.5	1.4	2.9	49	45 - 54						
All i-STAT Instruments	62	49.5	1.4	2.8	49	45 - 54						
i-STAT - moderate	11	49.0	1.7	3.4	49	44 - 54						
i-STAT - waived	51	49.6	1.3	2.7	50	45 - 55						

Glucose (mg/dL)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen IST-1				<u>Labs</u>	<u>Mean</u>	Specimen IST-2			
			<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	79	502.2	7.3	1.4	502	452 - 553	83	60.7	2.6	4.3	60	54 - 67
All i-STAT Instruments	79	501.4	8.2	1.6	502	451 - 552	81	60.5	2.5	4.1	60	54 - 67
i-STAT - moderate	15	503.2	10.9	2.2	504	452 - 554	16	62.6	3.1	5.0	62	56 - 69
i-STAT - waived	63	501.4	6.9	1.4	502	451 - 552	62	59.7	1.5	2.6	60	53 - 66
			Specimen IST-3						Specimen IST-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	63	203.1	4.4	2.2	202	182 - 224	64	26.0	1.5	6.0	26	19 - 32
All i-STAT Instruments	61	202.8	4.2	2.1	202	182 - 224	62	25.9	1.5	5.8	26	19 - 32
i-STAT - moderate	11	208.0	4.7	2.3	210	187 - 229	12	27.5	1.4	5.0	28	21 - 34
i-STAT - waived	47	201.1	2.3	1.1	201	181 - 222	50	25.5	1.2	4.9	25	19 - 32
			Specimen IST-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	62	265.0	3.8	1.4	264	238 - 292						
All i-STAT Instruments	61	264.9	3.7	1.4	264	238 - 292						
i-STAT - moderate	11	268.7	4.5	1.7	268	241 - 296						
i-STAT - waived	48	263.7	2.4	0.9	264	237 - 291						

Hematocrit (percent)

<u><i>Instrument</i></u>	Specimen IST-1						Specimen IST-2					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	22	14.3	0.8	5.9	14	13 - 16	22	46.7	0.8	1.6	47	43 - 50
All i-STAT Instruments	21	14.3	0.8	5.9	14	13 - 16	21	46.7	0.8	1.7	47	43 - 50
i-STAT - waived	14	13.9	0.7	5.2	14	13 - 15	14	46.6	0.8	1.8	47	43 - 50
	Specimen IST-3						Specimen IST-4					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	18	30.9	0.8	2.6	31	29 - 33	18	58.7	0.8	1.3	59	55 - 63
All i-STAT Instruments	17	30.9	0.8	2.5	31	29 - 33	17	58.6	0.8	1.3	59	55 - 63
i-STAT - waived	10	30.7	0.9	3.1	31	28 - 33	10	58.6	0.8	1.4	59	55 - 63
	Specimen IST-5											
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>						
All Method	18	21.8	0.9	3.9	22	20 - 24						
All i-STAT Instruments	17	21.8	0.9	4.0	22	20 - 24						
i-STAT - waived	10	21.4	0.5	2.4	21	20 - 23						

Hemoglobin (g/dL)

<u><i>Instrument</i></u>	Specimen IST-1						Specimen IST-2					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	22	4.88	0.28	5.8	4.8	4.5 - 5.3	22	15.88	0.27	1.7	16.0	14.7 - 17.0
All i-STAT Instruments	21	4.87	0.29	5.9	4.8	4.5 - 5.3	21	15.88	0.28	1.8	16.0	14.7 - 17.0
i-STAT - waived	14	4.75	0.26	5.5	4.8	4.4 - 5.1	14	15.85	0.30	1.9	16.0	14.7 - 17.0
	Specimen IST-3						Specimen IST-4					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	18	10.51	0.27	2.6	10.5	9.7 - 11.3	18	19.96	0.27	1.4	20.1	18.5 - 21.4
All i-STAT Instruments	17	10.48	0.26	2.5	10.5	9.7 - 11.3	17	19.95	0.28	1.4	20.1	18.5 - 21.4
i-STAT - waived	10	10.43	0.32	3.0	10.5	9.6 - 11.2	10	19.94	0.30	1.5	20.1	18.5 - 21.4
	Specimen IST-5											
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>						
All Method	18	7.42	0.31	4.2	7.5	6.8 - 8.0						
All i-STAT Instruments	17	7.41	0.32	4.3	7.5	6.8 - 8.0						
i-STAT - waived	10	7.26	0.21	2.8	7.1	6.7 - 7.8						

Creatinine (mg/dL)

<u><i>Instrument</i></u>	Specimen IST-1						Specimen IST-2					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	95	8.43	0.38	4.5	8.3	7.1 - 9.7	97	1.02	0.05	5.1	1.0	0.7 - 1.4
All i-STAT Instruments	92	8.43	0.38	4.5	8.4	7.1 - 9.7	94	1.01	0.05	5.0	1.0	0.7 - 1.4
i-STAT - moderate	18	8.42	0.32	3.8	8.4	7.1 - 9.7	18	1.03	0.05	4.7	1.0	0.7 - 1.4
i-STAT - waived	74	8.44	0.39	4.7	8.3	7.1 - 9.8	76	1.01	0.05	5.0	1.0	0.7 - 1.4
	Specimen IST-3						Specimen IST-4					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	69	2.73	0.11	3.9	2.7	2.3 - 3.2	67	0.51	0.05	9.3	0.5	0.2 - 0.9
All i-STAT Instruments	67	2.73	0.11	3.9	2.7	2.3 - 3.2	65	0.50	0.04	8.9	0.5	0.2 - 0.9
i-STAT - moderate	14	2.73	0.11	4.2	2.7	2.3 - 3.2	14	0.53	0.07	13.7	0.5	0.2 - 0.9
i-STAT - waived	53	2.73	0.11	3.9	2.7	2.3 - 3.2	52	0.50	0.04	8.4	0.5	0.2 - 0.9
	Specimen IST-5											
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>						
All Method	68	3.35	0.13	3.8	3.3	2.8 - 3.9						
All i-STAT Instruments	66	3.35	0.13	3.9	3.3	2.8 - 3.9						
i-STAT - moderate	14	3.34	0.13	4.0	3.3	2.8 - 3.9						
i-STAT - waived	52	3.36	0.13	3.9	3.4	2.8 - 3.9						

Ionized Calcium (mmol/L)

<u><i>Instrument</i></u>	Specimen IST-1						Specimen IST-2					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	68	1.853	0.025	1.4	1.86	1.77 - 1.93	67	0.756	0.014	1.9	0.76	0.71 - 0.80
All i-STAT Instruments	68	1.853	0.025	1.4	1.86	1.77 - 1.93	67	0.756	0.014	1.9	0.76	0.71 - 0.80
i-STAT - waived	60	1.851	0.025	1.4	1.85	1.77 - 1.93	59	0.755	0.014	1.8	0.76	0.71 - 0.80
	Specimen IST-3						Specimen IST-4					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	50	1.114	0.017	1.5	1.12	1.06 - 1.17	48	0.513	0.011	2.1	0.51	0.48 - 0.55
All i-STAT Instruments	50	1.114	0.017	1.5	1.12	1.06 - 1.17	48	0.513	0.011	2.1	0.51	0.48 - 0.55
i-STAT - waived	46	1.113	0.017	1.5	1.12	1.06 - 1.17	44	0.513	0.011	2.2	0.51	0.47 - 0.55
	Specimen IST-5											
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>						
All Method	49	1.416	0.019	1.3	1.42	1.35 - 1.48						
All i-STAT Instruments	49	1.416	0.019	1.3	1.42	1.35 - 1.48						
i-STAT - waived	45	1.417	0.019	1.4	1.42	1.35 - 1.48						

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	395	1.41	0.20	13.9	1.5	1.2 - 1.6	397	3.19	0.45	14.1	3.4	2.8 - 3.6
All Bromocresol Green Reagents	266	1.52	0.09	6.2	1.5	1.3 - 1.7	261	3.49	0.11	3.1	3.5	3.1 - 3.9
All Bromocresol Purple Reagents	122	1.15	0.10	8.3	1.1	1.0 - 1.3	122	2.55	0.07	2.9	2.6	2.2 - 2.9
Abaxis Piccolo												
Abaxis Piccolo - waived	17	1.31	0.11	8.3	1.3	1.1 - 1.5	16	2.56	0.12	4.5	2.6	2.3 - 2.9
Abaxis Piccolo	16	1.26	0.08	6.4	1.3	1.1 - 1.4	16	2.53	0.07	2.8	2.5	2.2 - 2.8
All Chemistry Instruments	32	1.28	0.08	6.3	1.3	1.1 - 1.5	31	2.53	0.07	2.8	2.5	2.2 - 2.8
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	67	1.60	0.05	3.0	1.6	1.4 - 1.8	67	3.51	0.10	3.0	3.5	3.1 - 3.9
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	16	1.19	0.03	2.9	1.2	1.0 - 1.4	16	2.61	0.06	2.2	2.6	2.3 - 2.9
All Chemistry Instruments	21	1.19	0.04	3.0	1.2	1.0 - 1.4	21	2.60	0.05	2.1	2.6	2.3 - 2.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	1.58	0.08	4.8	1.6	1.4 - 1.8	17	3.36	0.12	3.7	3.4	3.0 - 3.7
Olympus												
Olympus AU	24	1.50	0.05	3.1	1.5	1.3 - 1.7	24	3.50	0.09	2.5	3.5	3.1 - 3.9
Roche Integra												
Roche Integra	40	1.52	0.06	4.0	1.5	1.3 - 1.7	40	3.53	0.08	2.3	3.5	3.1 - 3.9
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	1.08	0.05	4.8	1.1	0.9 - 1.2	57	2.55	0.07	2.6	2.5	2.2 - 2.9
All Chemistry Instruments	58	1.08	0.05	4.7	1.1	0.9 - 1.2	58	2.55	0.07	2.6	2.5	2.2 - 2.9
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	1.48	0.05	3.7	1.5	1.3 - 1.7	15	3.44	0.06	1.8	3.4	3.0 - 3.8
Vital Diagnostics Envoy 500	20	1.48	0.07	4.7	1.5	1.3 - 1.7	19	3.49	0.08	2.3	3.5	3.1 - 3.9
All Chemistry Instruments	36	1.48	0.06	4.2	1.5	1.3 - 1.7	34	3.47	0.08	2.2	3.5	3.1 - 3.9
VITROS												
VITROS 250,350,500,700,750,950	42	1.40	0.06	4.0	1.4	1.2 - 1.6	43	3.47	0.12	3.4	3.5	3.1 - 3.9
All Chemistry Instruments	49	1.40	0.05	3.9	1.4	1.2 - 1.6	49	3.47	0.11	3.3	3.5	3.1 - 3.9

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	386	4.24	0.54	12.6	4.5	3.8 - 4.7	385	2.84	0.41	14.3	3.0	2.5 - 3.2
All Bromocresol Green Reagents	262	4.58	0.16	3.5	4.6	4.1 - 5.1	266	3.10	0.12	3.8	3.1	2.7 - 3.5
All Bromocresol Purple Reagents	112	3.47	0.11	3.1	3.5	3.1 - 3.9	109	2.25	0.07	3.1	2.3	2.0 - 2.5
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	3.4	3.0 - 3.8	6	-	-	-	2.2	2.0 - 2.5
Abaxis Piccolo	15	3.39	0.12	3.5	3.4	3.0 - 3.8	15	2.25	0.11	4.7	2.2	2.0 - 2.5
All Chemistry Instruments	21	3.41	0.13	3.8	3.4	3.0 - 3.8	21	2.25	0.11	4.8	2.2	2.0 - 2.5
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	67	4.59	0.12	2.7	4.6	4.1 - 5.1	68	3.16	0.09	2.8	3.2	2.8 - 3.5
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	16	3.53	0.07	1.9	3.5	3.1 - 3.9	16	2.31	0.05	2.2	2.3	2.0 - 2.6
All Chemistry Instruments	21	3.51	0.07	1.9	3.5	3.1 - 3.9	21	2.30	0.05	2.4	2.3	2.0 - 2.6
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	4.33	0.16	3.7	4.3	3.8 - 4.8	17	3.02	0.13	4.1	3.0	2.7 - 3.4
Olympus												
Olympus AU	24	4.60	0.11	2.4	4.6	4.1 - 5.1	24	3.09	0.08	2.7	3.1	2.7 - 3.5
Roche Integra												
Roche Integra	40	4.64	0.10	2.1	4.7	4.1 - 5.2	39	3.14	0.08	2.4	3.2	2.8 - 3.5
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	3.47	0.10	2.8	3.5	3.1 - 3.9	57	2.24	0.07	2.9	2.2	2.0 - 2.5
All Chemistry Instruments	59	3.47	0.10	2.8	3.5	3.1 - 3.9	58	2.24	0.06	2.9	2.2	2.0 - 2.5
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	4.47	0.15	3.3	4.5	4.0 - 5.0	16	3.09	0.14	4.4	3.1	2.7 - 3.4
Vital Diagnostics Envoy 500	20	4.58	0.13	2.9	4.6	4.1 - 5.1	20	3.08	0.09	2.8	3.1	2.7 - 3.4
All Chemistry Instruments	36	4.53	0.15	3.3	4.6	4.0 - 5.0	36	3.08	0.11	3.5	3.1	2.7 - 3.4
VITROS												
VITROS 250,350,500,700,750,950	43	4.62	0.16	3.6	4.6	4.1 - 5.1	43	3.00	0.10	3.4	3.0	2.6 - 3.3
All Chemistry Instruments	50	4.63	0.18	4.0	4.6	4.1 - 5.1	48	2.99	0.09	3.0	3.0	2.6 - 3.3

Albumin (g/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	386	3.59	0.49	13.6	3.8	3.2 - 4.0
All Bromocresol Green Reagents	259	3.90	0.12	3.1	3.9	3.5 - 4.3
All Bromocresol Purple Reagents	111	2.87	0.09	3.2	2.9	2.5 - 3.2
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	2.8	2.5 - 3.2
Abaxis Piccolo	15	2.84	0.11	3.7	2.8	2.5 - 3.2
All Chemistry Instruments	21	2.85	0.12	4.4	2.8	2.5 - 3.2
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	68	3.89	0.12	3.0	3.9	3.5 - 4.3
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	16	2.94	0.06	2.1	2.9	2.6 - 3.3
All Chemistry Instruments	21	2.92	0.06	2.1	2.9	2.6 - 3.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	3.71	0.13	3.5	3.7	3.3 - 4.1
Olympus						
Olympus AU	24	3.88	0.11	2.8	3.9	3.4 - 4.3
Roche Integra						
Roche Integra	40	3.92	0.08	2.0	3.9	3.5 - 4.4
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	57	2.86	0.08	2.7	2.9	2.5 - 3.2
All Chemistry Instruments	58	2.86	0.08	2.7	2.9	2.5 - 3.2
Vital Diagnostics						
Vital Diagnostics ATAC 8000	16	3.83	0.06	1.5	3.8	3.4 - 4.3
Vital Diagnostics Envoy 500	20	3.85	0.12	3.1	3.9	3.4 - 4.3
All Chemistry Instruments	35	3.85	0.08	2.0	3.8	3.4 - 4.3
VITROS						
VITROS 250,350,500,700,750,950	43	3.98	0.13	3.3	4.0	3.5 - 4.4
All Chemistry Instruments	49	3.99	0.13	3.2	4.0	3.5 - 4.4

Bilirubin, Direct (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-1					<u>Labs</u>	Specimen CH-2				
		<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	266	0.44	0.18	41.4	0.4	0.0 - 1.0	266	2.13	0.49	23.0	2.0	0.6 - 3.7
All Roche Integra/c111/c501												
Reagents	38	0.38	0.05	12.5	0.4	0.2 - 0.6	37	1.79	0.08	4.7	1.8	1.5 - 2.1
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	42	0.66	0.07	9.9	0.7	0.4 - 0.9	42	2.71	0.16	6.1	2.7	2.2 - 3.3
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	12	0.40	0.00	0.0	0.4	0.4 - 0.4	13	1.78	0.07	4.1	1.8	1.5 - 2.0
All Chemistry Instruments	18	0.38	0.04	10.0	0.4	0.2 - 0.5	17	1.76	0.08	4.5	1.8	1.5 - 2.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	0.54	0.05	9.3	0.5	0.3 - 0.7	14	2.55	0.13	5.3	2.6	2.1 - 3.0
Olympus												
Olympus AU	20	0.55	0.06	11.1	0.6	0.3 - 0.8	20	2.52	0.11	4.2	2.5	2.2 - 2.9
Roche Integra												
Roche Integra	33	0.38	0.05	12.8	0.4	0.2 - 0.6	32	1.79	0.08	4.6	1.8	1.5 - 2.1
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	48	0.37	0.04	12.0	0.4	0.2 - 0.6	49	1.71	0.10	6.1	1.7	1.4 - 2.1
All Chemistry Instruments	49	0.37	0.05	12.3	0.4	0.2 - 0.6	50	1.72	0.10	6.0	1.7	1.4 - 2.1
Vital Diagnostics												
Vital Diagnostics ATAC 8000	11	0.63	0.06	10.3	0.6	0.4 - 0.9	11	2.94	0.17	5.8	2.9	2.4 - 3.5
Vital Diagnostics Envoy 500	10	0.62	0.06	10.2	0.6	0.4 - 0.9	10	2.79	0.23	8.2	2.8	2.1 - 3.5
All Chemistry Instruments	21	0.62	0.06	10.0	0.6	0.4 - 0.9	21	2.87	0.21	7.3	2.9	2.2 - 3.5
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	27	0.12	0.08	69.3	0.1	0.0 - 0.4	27	1.82	0.30	16.7	1.8	0.9 - 2.8
All Chemistry Instruments	32	0.13	0.08	67.4	0.1	0.0 - 0.4	32	1.83	0.31	16.8	1.8	0.9 - 2.8

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	402	1.12	0.17	15.0	1.1	0.7 - 1.6	401	4.22	0.43	10.1	4.2	3.3 - 5.1
All Roche T. bili Special Reagents	40	0.93	0.06	6.0	0.9	0.5 - 1.4	40	3.83	0.18	4.7	3.8	3.0 - 4.6
All Vital Diagnostics Reagents	38	1.02	0.11	10.5	1.0	0.6 - 1.5	38	4.06	0.38	9.3	3.9	3.2 - 4.9
Abaxis Piccolo												
Abaxis Piccolo - waived	17	1.10	0.12	10.7	1.1	0.7 - 1.5	17	3.89	0.20	5.2	4.0	3.1 - 4.7
Abaxis Piccolo	16	1.08	0.10	9.1	1.1	0.6 - 1.5	16	3.86	0.18	4.6	3.9	3.0 - 4.7
All Chemistry Instruments	33	1.09	0.11	9.8	1.1	0.6 - 1.5	33	3.88	0.19	4.9	3.9	3.1 - 4.7
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	64	1.38	0.08	6.2	1.4	0.9 - 1.8	65	4.84	0.22	4.6	4.8	3.8 - 5.9
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	1.25	0.16	12.7	1.3	0.8 - 1.7	17	4.59	0.23	4.9	4.6	3.6 - 5.6
All Chemistry Instruments	23	1.24	0.16	13.3	1.3	0.8 - 1.7	23	4.60	0.28	6.1	4.6	3.6 - 5.6
Carolina Liquid Chemistries												
All Chemistry Instruments	10	1.11	0.10	9.0	1.1	0.7 - 1.6	10	4.32	0.31	7.1	4.5	3.4 - 5.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	1.13	0.08	6.8	1.1	0.7 - 1.6	17	4.17	0.18	4.4	4.2	3.3 - 5.1
Olympus												
Olympus AU	24	1.18	0.05	4.3	1.2	0.7 - 1.6	24	4.44	0.17	3.9	4.4	3.5 - 5.4
Roche Integra-T. bili Special												
Roche Integra	33	0.92	0.06	6.1	0.9	0.5 - 1.4	33	3.80	0.16	4.2	3.8	3.0 - 4.6
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	1.02	0.06	6.0	1.0	0.6 - 1.5	60	4.09	0.15	3.6	4.1	3.2 - 5.0
All Chemistry Instruments	61	1.02	0.06	6.0	1.0	0.6 - 1.5	61	4.10	0.15	3.7	4.1	3.2 - 5.0
Vital Diagnostics												
Vital Diagnostics ATAC 8000	17	1.09	0.11	9.7	1.1	0.6 - 1.5	17	4.40	0.28	6.3	4.4	3.5 - 5.3
Vital Diagnostics Envoy 500	20	0.97	0.08	8.3	1.0	0.5 - 1.4	20	3.78	0.14	3.6	3.8	3.0 - 4.6
All Chemistry Instruments	37	1.02	0.11	10.6	1.0	0.6 - 1.5	37	4.06	0.38	9.3	3.9	3.2 - 4.9
VITROS - TBIL												
VITROS 250,350,500,700,750,950	41	1.09	0.08	7.6	1.1	0.6 - 1.5	40	4.02	0.16	4.1	4.0	3.2 - 4.9
All Chemistry Instruments	47	1.07	0.09	8.6	1.1	0.6 - 1.5	46	4.03	0.23	5.8	4.0	3.2 - 4.9

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-3					Specimen CH-4					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	386	2.79	0.33	11.8	2.7	2.2 - 3.4	385	4.76	0.46	9.6	4.7	3.8 - 5.8
All Roche T. bili Special Reagents	40	2.44	0.11	4.6	2.4	1.9 - 3.0	40	4.35	0.21	4.9	4.3	3.4 - 5.3
All Vital Diagnostics Reagents	38	2.68	0.31	11.8	2.5	2.1 - 3.3	37	4.58	0.39	8.6	4.4	3.6 - 5.5
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	2.7	2.0 - 3.2	6	-	-	-	4.3	3.4 - 5.2
Abaxis Piccolo	14	2.60	0.22	8.5	2.7	2.0 - 3.2	15	4.31	0.16	3.8	4.3	3.4 - 5.2
All Chemistry Instruments	20	2.61	0.24	9.4	2.7	2.0 - 3.2	21	4.30	0.17	4.0	4.3	3.4 - 5.2
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	65	3.24	0.14	4.5	3.3	2.5 - 3.9	65	5.44	0.27	5.0	5.4	4.3 - 6.6
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	3.16	0.13	4.2	3.2	2.5 - 3.8	17	5.06	0.18	3.6	5.1	4.0 - 6.1
All Chemistry Instruments	23	3.19	0.21	6.6	3.2	2.5 - 3.9	22	5.05	0.19	3.8	5.1	4.0 - 6.1
Carolina Liquid Chemistries												
All Chemistry Instruments	10	2.77	0.70	25.3	3.1	2.2 - 3.4	10	4.78	0.28	5.8	4.9	3.8 - 5.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	2.68	0.13	4.9	2.7	2.1 - 3.3	17	4.73	0.23	4.9	4.7	3.7 - 5.7
Olympus												
Olympus AU	24	2.81	0.09	3.4	2.8	2.2 - 3.4	23	5.00	0.11	2.3	5.0	3.9 - 6.0
Roche Integra-T. bili Special												
Roche Integra	33	2.42	0.09	3.7	2.4	1.9 - 2.9	33	4.30	0.18	4.2	4.3	3.4 - 5.2
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	2.69	0.10	3.8	2.7	2.1 - 3.3	58	4.62	0.13	2.9	4.6	3.6 - 5.6
All Chemistry Instruments	60	2.70	0.10	3.9	2.7	2.1 - 3.3	61	4.60	0.17	3.7	4.6	3.6 - 5.6
Vital Diagnostics												
Vital Diagnostics ATAC 8000	17	2.95	0.28	9.4	3.0	2.3 - 3.6	17	4.91	0.33	6.7	5.0	3.9 - 5.9
Vital Diagnostics Envoy 500	20	2.46	0.10	4.1	2.5	1.9 - 3.0	19	4.31	0.18	4.2	4.4	3.4 - 5.2
All Chemistry Instruments	37	2.68	0.32	11.9	2.5	2.1 - 3.3	36	4.59	0.40	8.6	4.4	3.6 - 5.6
VITROS - TBIL												
VITROS 250,350,500,700,750,950	41	2.68	0.13	4.8	2.7	2.1 - 3.3	39	4.51	0.17	3.8	4.5	3.6 - 5.5
All Chemistry Instruments	46	2.69	0.15	5.5	2.7	2.1 - 3.3	46	4.52	0.26	5.7	4.5	3.6 - 5.5

Bilirubin, Total (mg/dL)

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	390	3.78	0.41	10.9	3.7	3.0 - 4.6
All Roche T. bili Special Reagents	40	3.37	0.18	5.2	3.4	2.6 - 4.1
All Vital Diagnostics Reagents	38	3.62	0.32	8.8	3.5	2.8 - 4.4
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	3.4	2.7 - 4.2
Abaxis Piccolo	15	3.47	0.18	5.0	3.5	2.7 - 4.2
All Chemistry Instruments	21	3.46	0.20	5.7	3.5	2.7 - 4.2
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	65	4.37	0.22	4.9	4.4	3.4 - 5.3
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	17	4.14	0.19	4.6	4.2	3.3 - 5.0
All Chemistry Instruments	22	4.10	0.21	5.2	4.1	3.2 - 5.0
Carolina Liquid Chemistries						
All Chemistry Instruments	10	3.88	0.44	11.3	4.1	3.1 - 4.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	3.72	0.20	5.5	3.7	2.9 - 4.5
Olympus						
Olympus AU	23	3.87	0.11	2.8	3.9	3.0 - 4.7
Roche Integra-T. bili Special						
Roche Integra	33	3.35	0.16	4.8	3.3	2.6 - 4.1
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	60	3.65	0.13	3.6	3.7	2.9 - 4.4
All Chemistry Instruments	61	3.66	0.14	3.7	3.7	2.9 - 4.4
Vital Diagnostics						
Vital Diagnostics ATAC 8000	17	3.92	0.22	5.7	4.0	3.1 - 4.8
Vital Diagnostics Envoy 500	20	3.38	0.11	3.3	3.4	2.7 - 4.1
All Chemistry Instruments	37	3.63	0.32	8.8	3.5	2.9 - 4.4
VITROS - TBIL						
VITROS 250,350,500,700,750,950	41	3.56	0.16	4.5	3.5	2.8 - 4.3
All Chemistry Instruments	46	3.59	0.20	5.6	3.6	2.8 - 4.4

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	402	9.52	0.29	3.1	9.5	8.5 - 10.6	399	12.53	0.38	3.1	12.5	11.5 - 13.6
All Arsenazo Methods	221	9.47	0.32	3.3	9.4	8.4 - 10.5	223	12.48	0.38	3.0	12.5	11.4 - 13.5
All CPC Methods	154	9.60	0.25	2.6	9.6	8.5 - 10.6	152	12.63	0.42	3.3	12.6	11.6 - 13.7
Abaxis Piccolo												
Abaxis Piccolo - waived	17	10.00	0.22	2.2	10.0	9.0 - 11.0	17	13.03	0.33	2.5	13.1	12.0 - 14.1
Abaxis Piccolo	16	10.01	0.22	2.2	10.0	9.0 - 11.1	16	12.92	0.38	2.9	12.9	11.9 - 14.0
All Chemistry Instruments	33	10.01	0.22	2.2	10.0	9.0 - 11.1	33	12.98	0.35	2.7	13.0	11.9 - 14.0
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	62	9.41	0.21	2.2	9.4	8.4 - 10.5	64	12.31	0.23	1.9	12.3	11.3 - 13.4
Beckman - electrode												
Beckman Synchron LX/Pro/DxC	17	9.43	0.18	1.9	9.5	8.4 - 10.5	17	12.37	0.16	1.3	12.3	11.3 - 13.4
All Chemistry Instruments	21	9.47	0.12	1.3	9.5	8.4 - 10.5	22	12.35	0.15	1.2	12.3	11.3 - 13.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	9.61	0.24	2.5	9.5	8.6 - 10.7	17	13.55	0.44	3.2	13.5	12.5 - 14.6
Olympus												
Olympus AU	24	9.51	0.22	2.3	9.5	8.5 - 10.6	24	12.46	0.29	2.3	12.5	11.4 - 13.5
Roche Integra												
Roche Integra	41	9.74	0.24	2.5	9.8	8.7 - 10.8	41	12.78	0.28	2.2	12.7	11.7 - 13.8
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	9.49	0.23	2.4	9.5	8.4 - 10.5	60	12.35	0.26	2.1	12.4	11.3 - 13.4
All Chemistry Instruments	61	9.50	0.23	2.4	9.5	8.4 - 10.5	61	12.36	0.27	2.2	12.4	11.3 - 13.4
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	9.53	0.19	2.0	9.5	8.5 - 10.6	16	12.23	0.64	5.2	12.3	11.2 - 13.3
Vital Diagnostics Envoy 500	21	9.25	0.19	2.0	9.2	8.2 - 10.3	21	12.31	0.26	2.1	12.4	11.3 - 13.4
All Chemistry Instruments	37	9.37	0.23	2.5	9.4	8.3 - 10.4	36	12.33	0.33	2.7	12.4	11.3 - 13.4
VITROS												
VITROS 250,350,500,700,750,950	43	9.35	0.21	2.2	9.4	8.3 - 10.4	43	12.60	0.25	2.0	12.6	11.6 - 13.7
All Chemistry Instruments	53	9.34	0.21	2.2	9.4	8.3 - 10.4	53	12.56	0.27	2.2	12.6	11.5 - 13.6

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	390	7.20	0.31	4.3	7.2	6.1 - 8.2	385	14.28	0.53	3.7	14.2	13.2 - 15.3
All Arsenazo Methods	212	7.27	0.35	4.8	7.3	6.2 - 8.3	209	14.15	0.45	3.2	14.1	13.1 - 15.2
All CPC Methods	154	7.11	0.27	3.8	7.1	6.1 - 8.2	152	14.54	0.61	4.2	14.4	13.5 - 15.6
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	7.6	6.4 - 8.5	6	-	-	-	15.0	13.8 - 15.9
Abaxis Piccolo	15	7.46	0.22	2.9	7.4	6.4 - 8.5	15	14.77	0.55	3.7	15.0	13.7 - 15.8
All Chemistry Instruments	21	7.49	0.20	2.7	7.5	6.4 - 8.5	21	14.83	0.50	3.4	15.0	13.8 - 15.9
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	63	7.42	0.16	2.2	7.4	6.4 - 8.5	64	13.99	0.31	2.2	14.0	12.9 - 15.0
Beckman - electrode												
Beckman Synchron LX/Pro/DxC	17	7.25	0.17	2.3	7.3	6.2 - 8.3	17	14.04	0.24	1.7	14.0	13.0 - 15.1
All Chemistry Instruments	22	7.26	0.17	2.3	7.3	6.2 - 8.3	22	14.03	0.23	1.6	14.0	13.0 - 15.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	6.87	0.22	3.2	6.8	5.8 - 7.9	16	15.76	0.72	4.6	15.9	14.7 - 16.8
Olympus												
Olympus AU	24	7.48	0.19	2.6	7.5	6.4 - 8.5	24	14.17	0.40	2.8	14.2	13.1 - 15.2
Roche Integra												
Roche Integra	41	6.94	0.17	2.5	6.9	5.9 - 8.0	40	14.86	0.36	2.4	14.9	13.8 - 15.9
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	7.14	0.17	2.3	7.1	6.1 - 8.2	60	14.18	0.31	2.2	14.2	13.1 - 15.2
All Chemistry Instruments	60	7.15	0.18	2.5	7.1	6.1 - 8.2	61	14.19	0.31	2.2	14.2	13.1 - 15.2
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	7.06	0.38	5.4	7.0	6.0 - 8.1	16	14.02	0.46	3.3	14.0	13.0 - 15.1
Vital Diagnostics Envoy 500	21	7.29	0.18	2.4	7.3	6.2 - 8.3	21	14.06	0.20	1.5	14.0	13.0 - 15.1
All Chemistry Instruments	37	7.19	0.30	4.2	7.2	6.1 - 8.2	37	14.04	0.33	2.4	14.0	13.0 - 15.1
VITROS												
VITROS 250,350,500,700,750,950	43	6.87	0.19	2.7	6.9	5.8 - 7.9	42	14.37	0.41	2.8	14.4	13.3 - 15.4
All Chemistry Instruments	53	6.86	0.18	2.6	6.9	5.8 - 7.9	52	14.29	0.43	3.0	14.2	13.2 - 15.3

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	391	10.78	0.31	2.9	10.8	9.7 - 11.8
All Arsenazo Methods	211	10.80	0.31	2.9	10.8	9.8 - 11.9
All CPC Methods	153	10.78	0.34	3.1	10.7	9.7 - 11.8
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	11.3	10.2 - 12.3
Abaxis Piccolo	15	11.25	0.16	1.4	11.2	10.2 - 12.3
All Chemistry Instruments	21	11.23	0.20	1.8	11.2	10.2 - 12.3
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	63	10.79	0.27	2.5	10.8	9.7 - 11.8
Beckman - electrode						
Beckman Synchron LX/Pro/DxC	17	10.71	0.14	1.3	10.7	9.7 - 11.8
All Chemistry Instruments	22	10.69	0.16	1.5	10.7	9.6 - 11.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	11.33	0.32	2.8	11.3	10.3 - 12.4
Olympus						
Olympus AU	24	10.82	0.24	2.2	10.8	9.8 - 11.9
Roche Integra						
Roche Integra	40	10.78	0.28	2.6	10.8	9.7 - 11.8
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	60	10.57	0.22	2.0	10.6	9.5 - 11.6
All Chemistry Instruments	61	10.57	0.22	2.1	10.6	9.5 - 11.6
Vital Diagnostics						
Vital Diagnostics ATAC 8000	16	10.55	0.28	2.7	10.5	9.5 - 11.6
Vital Diagnostics Envoy 500	21	10.67	0.27	2.6	10.7	9.6 - 11.7
All Chemistry Instruments	37	10.62	0.28	2.6	10.6	9.6 - 11.7
VITROS						
VITROS 250,350,500,700,750,950	43	10.82	0.20	1.9	10.8	9.8 - 11.9
All Chemistry Instruments	53	10.79	0.21	2.0	10.8	9.7 - 11.8

Creatinine (mg/dL)

Technical note: The National Kidney Disease Education Program (NKDEP) has launched the Creatinine Standardization Program to address inter-laboratory variation in creatinine assay calibration and provide more accurate estimates of glomerular filtration rate (GFR). Both efforts are part of a larger NKDEP initiative to help health care providers better identify and treat chronic kidney disease in order to prevent or delay kidney failure and improve patient outcomes. The Creatinine Standardization Program encourages in-vitro diagnostics manufacturers to adjust the calibrations of routine serum creatinine methods to be traceable to the internationally accepted reference method—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-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	412	0.81	0.10	12.2	0.8	0.5 - 1.2	411	4.23	0.25	5.8	4.3	3.5 - 4.9
IDMS Standardization	187	0.80	0.09	11.5	0.8	0.4 - 1.1	189	4.23	0.22	5.2	4.3	3.5 - 4.9
Abaxis Piccolo												
Abaxis Piccolo - waived	13	0.86	0.10	11.2	0.8	0.5 - 1.2	13	4.39	0.15	3.4	4.4	3.7 - 5.1
All Chemistry Instruments	19	0.87	0.09	10.9	0.8	0.5 - 1.2	19	4.41	0.17	3.8	4.4	3.7 - 5.1
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	27	0.81	0.09	10.8	0.8	0.5 - 1.2	26	3.99	0.13	3.2	4.0	3.3 - 4.6
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	13	0.72	0.06	8.3	0.7	0.4 - 1.1	13	4.28	0.17	4.0	4.3	3.6 - 5.0
All Chemistry Instruments	17	0.74	0.09	11.7	0.7	0.4 - 1.1	17	4.29	0.15	3.6	4.3	3.6 - 5.0
CREA (blank corrected -NH3)												
VITROS 250,350,500,700,750,950	11	0.85	0.05	6.2	0.8	0.5 - 1.2	11	4.27	0.06	1.5	4.3	3.6 - 5.0
All Chemistry Instruments	12	0.84	0.05	6.1	0.8	0.5 - 1.2	12	4.29	0.09	2.1	4.3	3.6 - 5.0
CRSC (single slide)												
VITROS 250,350,500,700,750,950	25	0.85	0.05	6.0	0.8	0.5 - 1.2	25	4.27	0.07	1.6	4.3	3.6 - 5.0
All Chemistry Instruments	32	0.85	0.05	6.0	0.8	0.5 - 1.2	33	4.32	0.12	2.8	4.3	3.6 - 5.0
Olympus												
Olympus AU	14	0.71	0.08	10.8	0.7	0.4 - 1.1	14	4.18	0.13	3.1	4.2	3.5 - 4.9
Roche Integra												
Roche Integra	20	0.73	0.04	6.1	0.7	0.4 - 1.1	20	4.03	0.21	5.3	3.9	3.4 - 4.7
Non-IDMS Method	171	0.83	0.10	11.5	0.8	0.5 - 1.2	170	4.22	0.26	6.2	4.3	3.5 - 4.9
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	32	0.84	0.09	10.8	0.9	0.5 - 1.2	31	3.95	0.15	3.7	4.0	3.3 - 4.6
Roche Integra												
Roche Integra	17	0.74	0.09	11.7	0.7	0.4 - 1.1	17	4.00	0.35	8.8	3.9	3.4 - 4.6
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	42	0.82	0.08	10.3	0.8	0.5 - 1.2	42	4.43	0.12	2.6	4.5	3.7 - 5.1
All Chemistry Instruments	43	0.83	0.08	10.3	0.8	0.5 - 1.2	43	4.43	0.11	2.6	4.5	3.7 - 5.1
Vital Diagnostics												
Vital Diagnostics ATAC 8000	11	0.93	0.06	7.0	0.9	0.6 - 1.3	11	4.20	0.22	5.3	4.2	3.5 - 4.9
Vital Diagnostics Envoy 500	14	0.78	0.04	5.5	0.8	0.4 - 1.1	14	4.15	0.20	4.8	4.2	3.5 - 4.8
All Chemistry Instruments	25	0.84	0.09	10.9	0.8	0.5 - 1.2	25	4.17	0.21	5.0	4.2	3.5 - 4.8

Creatinine (mg/dL)

<u>Standardization/Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	402	1.30	0.18	14.1	1.3	1.0 - 1.7	399	5.25	0.34	6.5	5.3	4.4 - 6.1
IDMS Standardization	178	1.23	0.21	16.7	1.3	0.9 - 1.6	178	5.32	0.35	6.6	5.3	4.5 - 6.2
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	27	1.27	0.08	6.4	1.3	0.9 - 1.6	26	4.90	0.17	3.5	4.9	4.1 - 5.7
Beckman - cartridge												
Beckman Synchron LX/PPro/DxC	13	1.30	0.07	5.4	1.3	1.0 - 1.6	13	5.30	0.18	3.4	5.3	4.5 - 6.1
All Chemistry Instruments	17	1.33	0.10	7.4	1.3	1.0 - 1.7	17	5.34	0.18	3.4	5.3	4.5 - 6.2
CREA (blnk corrected -NH3)												
VITROS 250,350,500,700,750,950	11	0.95	0.05	5.5	0.9	0.6 - 1.3	11	5.73	0.09	1.6	5.8	4.8 - 6.6
All Chemistry Instruments	12	0.94	0.05	5.5	0.9	0.6 - 1.3	12	5.75	0.12	2.0	5.8	4.8 - 6.7
CRSC (single slide)												
VITROS 250,350,500,700,750,950	24	0.95	0.06	6.2	0.9	0.6 - 1.3	25	5.66	0.07	1.3	5.7	4.8 - 6.6
All Chemistry Instruments	31	0.95	0.07	7.1	0.9	0.6 - 1.3	33	5.69	0.09	1.6	5.7	4.8 - 6.6
Olympus												
Olympus AU	14	1.31	0.10	7.6	1.3	1.0 - 1.7	14	5.19	0.16	3.0	5.2	4.4 - 6.0
Roche Integra												
Roche Integra	20	1.23	0.10	8.3	1.2	0.9 - 1.6	19	4.97	0.23	4.7	4.9	4.2 - 5.8
Non-IDMS Method	165	1.38	0.11	8.0	1.4	1.0 - 1.7	169	5.20	0.33	6.4	5.2	4.4 - 6.0
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	30	1.31	0.05	4.2	1.3	1.0 - 1.7	32	4.82	0.26	5.5	4.8	4.0 - 5.6
Roche Integra												
Roche Integra	17	1.25	0.13	10.6	1.2	0.9 - 1.6	17	4.97	0.41	8.2	4.9	4.2 - 5.8
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	41	1.41	0.08	5.7	1.4	1.1 - 1.8	42	5.44	0.12	2.2	5.5	4.6 - 6.3
All Chemistry Instruments	42	1.41	0.08	5.6	1.4	1.1 - 1.8	43	5.44	0.12	2.1	5.5	4.6 - 6.3
Vital Diagnostics												
Vital Diagnostics ATAC 8000	11	1.42	0.10	6.9	1.4	1.1 - 1.8	11	5.21	0.31	6.0	5.2	4.4 - 6.0
Vital Diagnostics Envoy 500	14	1.41	0.08	5.4	1.4	1.1 - 1.8	14	5.01	0.23	4.6	5.0	4.2 - 5.8
All Chemistry Instruments	25	1.42	0.09	6.0	1.4	1.1 - 1.8	25	5.10	0.28	5.5	5.1	4.3 - 5.9

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

<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	401	3.22	0.23	7.2	3.2	2.7 - 3.8
IDMS Standardization	179	3.16	0.22	6.9	3.1	2.6 - 3.7
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	26	3.08	0.12	4.0	3.1	2.6 - 3.6
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	13	3.28	0.14	4.3	3.3	2.7 - 3.8
All Chemistry Instruments	17	3.32	0.14	4.2	3.3	2.8 - 3.9
CREA (blank corrected -NH3)						
VITROS 250,350,500,700,750,950	11	2.91	0.05	1.9	2.9	2.4 - 3.4
All Chemistry Instruments	12	2.93	0.08	2.6	2.9	2.4 - 3.4
CRSC (single slide)						
VITROS 250,350,500,700,750,950	25	2.93	0.07	2.4	2.9	2.4 - 3.4
All Chemistry Instruments	32	2.96	0.08	2.8	2.9	2.5 - 3.4
Olympus						
Olympus AU	14	3.21	0.11	3.6	3.2	2.7 - 3.7
Roche Integra						
Roche Integra	20	3.07	0.19	6.1	3.0	2.6 - 3.6
Non-IDMS Method	170	3.26	0.23	6.9	3.3	2.7 - 3.8
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	31	3.05	0.15	5.1	3.1	2.5 - 3.6
Roche Integra						
Roche Integra	17	3.05	0.29	9.6	3.0	2.5 - 3.6
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	42	3.42	0.11	3.1	3.4	2.9 - 4.0
Vital Diagnostics						
Vital Diagnostics ATAC 8000	11	3.40	0.16	4.7	3.4	2.8 - 4.0
Vital Diagnostics Envoy 500	13	3.29	0.09	2.6	3.3	2.7 - 3.8
All Chemistry Instruments	24	3.34	0.13	4.0	3.3	2.8 - 3.9

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	440	95.6	4.0	4.2	96	85 - 106	430	187.3	4.5	2.4	187	168 - 207
All Roche Integra/c111/c501												
Reagents	49	95.8	2.0	2.1	96	86 - 106	50	186.0	3.4	1.8	186	167 - 205
All Vital Diagnostics Reagents	39	98.5	3.7	3.8	99	88 - 109	36	190.8	5.0	2.6	191	171 - 210
Abaxis Piccolo												
Abaxis Piccolo - waived	17	98.1	1.6	1.6	98	88 - 108	17	186.2	2.7	1.5	186	167 - 205
Abaxis Piccolo	16	98.1	0.9	0.9	98	88 - 108	16	186.4	1.6	0.9	187	167 - 206
All Chemistry Instruments	33	98.1	1.3	1.3	98	88 - 108	33	186.3	2.2	1.2	186	167 - 205
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	65	96.8	2.3	2.4	97	87 - 107	62	186.4	3.8	2.0	186	167 - 206
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	15	96.4	1.6	1.7	96	86 - 107	15	187.7	2.8	1.5	187	168 - 207
All Chemistry Instruments	21	96.7	2.4	2.5	97	87 - 107	21	188.1	4.1	2.2	187	169 - 207
Carolina Liquid Chemistries												
All Chemistry Instruments	11	97.4	4.0	4.1	98	87 - 108	11	188.6	8.0	4.2	189	169 - 208
Cholestech LDX												
Cholestech LDX - waived	16	91.5	4.3	4.7	91	82 - 101	15	184.5	7.2	3.9	184	166 - 203
All Chemistry Instruments	18	91.4	4.3	4.7	91	82 - 101	17	184.4	7.2	3.9	184	165 - 203
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	97.3	4.2	4.4	98	87 - 108	16	188.9	7.8	4.1	189	170 - 208
Olympus												
Olympus AU	23	97.2	1.6	1.6	97	87 - 107	24	187.7	3.0	1.6	188	168 - 207
Roche Integra												
Roche Integra	42	96.0	2.4	2.5	96	86 - 106	42	185.8	3.5	1.9	186	167 - 205
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	95.4	2.0	2.1	95	85 - 105	59	188.1	3.7	2.0	188	169 - 207
All Chemistry Instruments	59	95.4	2.0	2.1	95	85 - 105	60	188.2	3.7	2.0	188	169 - 207
Vital Diagnostics												
Vital Diagnostics ATAC 8000	17	98.2	3.4	3.5	97	88 - 108	15	190.7	6.3	3.3	192	171 - 210
Vital Diagnostics Envoy 500	21	99.0	3.9	3.9	99	89 - 109	20	191.0	4.0	2.1	191	171 - 211
All Chemistry Instruments	38	98.6	3.6	3.7	99	88 - 109	35	190.9	5.0	2.6	191	171 - 210
VITROS												
VITROS 250,350,500,700,750,950	43	89.2	2.3	2.5	89	80 - 99	44	186.0	4.0	2.1	187	167 - 205
VITROS DT/DTII/DT60	12	89.1	3.7	4.1	89	80 - 98	11	188.0	4.8	2.6	188	169 - 207
All Chemistry Instruments	62	89.3	2.6	2.9	89	80 - 99	62	186.4	4.2	2.2	187	167 - 206

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	411	44.4	2.6	5.8	45	38 - 51	410	234.3	6.4	2.7	234	210 - 258
All Roche Integra/c111/c501												
Reagents	47	42.6	2.1	4.9	42	36 - 49	49	233.6	4.6	2.0	234	210 - 257
All Vital Diagnostics Reagents	39	46.1	2.9	6.2	46	40 - 53	37	237.9	8.3	3.5	238	214 - 262
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	47	40 - 53	6	-	-	-	234	209 - 257
Abaxis Piccolo	15	46.7	1.3	2.7	47	40 - 53	15	232.7	2.5	1.1	233	209 - 257
All Chemistry Instruments	21	46.8	1.2	2.5	47	40 - 53	21	233.1	2.6	1.1	233	209 - 257
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	64	45.1	1.4	3.1	45	39 - 52	62	234.5	4.2	1.8	234	211 - 258
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	15	45.3	0.8	1.8	45	39 - 52	15	234.5	4.5	1.9	235	211 - 258
All Chemistry Instruments	21	45.1	1.0	2.3	45	39 - 52	21	235.6	6.4	2.7	235	212 - 260
Carolina Liquid Chemistries												
All Chemistry Instruments	11	44.7	2.1	4.8	45	38 - 51	11	238.2	10.6	4.4	240	214 - 262
Cholestech LDX												
Cholestech LDX - waived	4	-	-	-	50	38 - 51	4	-	-	-	235	210 - 258
All Chemistry Instruments	5	-	-	-	50	44 - 56	5	-	-	-	230	208 - 255
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	42.4	2.4	5.7	42	36 - 49	16	239.8	9.9	4.1	238	215 - 264
Olympus												
Olympus AU	24	41.9	0.7	1.7	42	35 - 48	24	236.5	3.9	1.6	237	212 - 261
Roche Integra												
Roche Integra	41	43.1	3.0	6.9	42	37 - 50	41	233.3	4.7	2.0	234	209 - 257
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	45.9	1.4	3.1	46	39 - 52	59	234.7	4.4	1.9	234	211 - 259
All Chemistry Instruments	59	45.9	1.4	3.0	46	39 - 52	60	234.8	4.5	1.9	234	211 - 259
Vital Diagnostics												
Vital Diagnostics ATAC 8000	17	45.4	2.4	5.3	46	39 - 52	16	234.6	9.2	3.9	233	211 - 259
Vital Diagnostics Envoy 500	21	47.0	2.7	5.6	47	41 - 54	20	240.9	6.5	2.7	241	216 - 265
All Chemistry Instruments	38	46.3	2.6	5.7	46	40 - 53	36	238.1	8.3	3.5	239	214 - 262
VITROS												
VITROS 250,350,500,700,750,950	44	42.8	2.0	4.7	43	36 - 49	44	230.8	4.9	2.1	231	207 - 254
VITROS DT/DTII/DT60	12	42.9	2.7	6.4	43	36 - 49	12	230.0	6.4	2.8	231	207 - 253
All Chemistry Instruments	63	43.0	2.2	5.2	43	37 - 50	61	231.3	4.4	1.9	232	208 - 255

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	408	140.5	3.9	2.8	140	126 - 155
All Roche Integra/c111/c501						
Reagents	50	138.3	2.9	2.1	138	124 - 153
All Vital Diagnostics Reagents	39	143.7	6.4	4.5	144	129 - 159
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	140	126 - 155
Abaxis Piccolo	15	140.3	1.3	1.0	140	126 - 155
All Chemistry Instruments	21	140.2	1.2	0.9	140	126 - 155
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	65	140.0	3.6	2.6	140	126 - 155
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	15	140.9	2.3	1.6	141	126 - 155
All Chemistry Instruments	21	141.1	2.8	2.0	141	127 - 156
Carolina Liquid Chemistries						
All Chemistry Instruments	11	142.6	8.5	5.9	146	128 - 157
Cholestech LDX						
Cholestech LDX - waived	4	-	-	-	144	126 - 155
All Chemistry Instruments	5	-	-	-	143	126 - 155
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	140.7	5.7	4.1	139	126 - 155
Olympus						
Olympus AU	24	139.3	2.6	1.8	139	125 - 154
Roche Integra						
Roche Integra	42	138.2	2.8	2.1	138	124 - 153
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	59	141.1	2.7	1.9	141	126 - 156
All Chemistry Instruments	60	141.1	2.7	1.9	141	126 - 156
Vital Diagnostics						
Vital Diagnostics ATAC 8000	17	143.7	7.5	5.2	144	129 - 159
Vital Diagnostics Envoy 500	20	144.9	3.8	2.6	145	130 - 160
All Chemistry Instruments	38	143.8	6.5	4.5	144	129 - 159
VITROS						
VITROS 250,350,500,700,750,950	44	140.1	3.1	2.2	141	126 - 155
VITROS DT/DTII/DT60	12	142.9	7.9	5.5	142	128 - 158
All Chemistry Instruments	62	140.4	3.2	2.3	141	126 - 155

Iron (mcg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	140	50.8	4.3	8.5	52	40 - 62	142	194.5	13.3	6.8	193	155 - 234
All Roche Integra/c111/c501												
Reagents	18	51.1	3.4	6.6	52	40 - 62	18	194.3	4.0	2.0	194	155 - 234
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	12	51.6	4.9	9.4	52	41 - 62	12	184.4	6.4	3.5	184	147 - 222
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	12	53.0	2.2	4.1	53	42 - 64	12	196.6	6.5	3.3	197	157 - 236
All Chemistry Instruments	13	52.8	2.2	4.1	53	42 - 64	13	196.2	6.4	3.3	196	156 - 236
Olympus												
Olympus AU	15	55.7	1.7	3.0	55	44 - 67	15	212.1	5.8	2.7	212	169 - 255
Roche Integra												
Roche Integra	16	50.9	3.6	7.0	52	40 - 62	16	194.2	4.1	2.1	194	155 - 234
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	27	52.3	1.1	2.0	52	41 - 63	27	191.1	2.2	1.2	191	152 - 230
All Chemistry Instruments	28	52.3	1.0	2.0	52	41 - 63	28	191.1	2.2	1.1	191	152 - 230
VITROS												
VITROS 250,350,500,700,750,950	13	43.8	2.9	6.5	43	35 - 53	13	210.8	6.8	3.2	209	168 - 254
All Chemistry Instruments	19	46.7	5.4	11.6	45	37 - 57	19	212.4	7.7	3.6	212	169 - 255
<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	142	247.8	19.0	7.7	245	198 - 298	143	176.5	11.6	6.5	176	141 - 212
All Roche Integra/c111/c501												
Reagents	18	245.7	5.4	2.2	246	196 - 295	18	177.8	3.7	2.1	179	142 - 214
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	12	232.2	5.6	2.4	234	185 - 279	12	169.1	5.1	3.0	169	135 - 203
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	12	248.3	5.5	2.2	247	198 - 298	12	179.3	5.9	3.3	179	143 - 216
All Chemistry Instruments	13	247.8	5.5	2.2	246	198 - 298	13	180.0	6.1	3.4	179	144 - 216
Olympus												
Olympus AU	15	268.7	5.6	2.1	270	214 - 323	15	191.3	4.0	2.1	193	153 - 230
Roche Integra												
Roche Integra	16	245.5	4.8	2.0	246	196 - 295	16	177.9	3.4	1.9	179	142 - 214
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	28	243.6	2.9	1.2	243	194 - 293	28	173.7	2.5	1.4	174	138 - 209
All Chemistry Instruments	29	243.7	2.9	1.2	243	194 - 293	29	173.8	2.5	1.4	174	139 - 209
VITROS												
VITROS 250,350,500,700,750,950	13	278.6	10.5	3.8	274	222 - 335	13	186.6	9.4	5.1	185	149 - 224
All Chemistry Instruments	19	282.6	11.8	4.2	284	226 - 340	19	190.0	10.0	5.3	189	152 - 228

Iron (mcg/dL)

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	143	213.0	15.5	7.3	211	170 - 256
All Roche Integra/c111/c501 Reagents	18	212.2	5.0	2.4	215	169 - 255
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	12	202.3	5.6	2.8	201	161 - 243
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	12	214.3	5.3	2.5	214	171 - 258
All Chemistry Instruments	13	214.4	5.1	2.4	214	171 - 258
Olympus						
Olympus AU	15	232.0	7.5	3.3	232	185 - 279
Roche Integra						
Roche Integra	16	212.0	4.9	2.3	215	169 - 255
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	28	208.9	2.4	1.1	209	167 - 251
All Chemistry Instruments	29	208.9	2.3	1.1	209	167 - 251
VITROS						
VITROS 250,350,500,700,750,950	13	233.3	10.1	4.3	230	186 - 280
All Chemistry Instruments	19	236.7	10.7	4.5	235	189 - 285

Magnesium (mg/dL)

Specimen CH-1

Specimen CH-2

<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	174	4.57	0.37	8.2	4.5	3.4 - 5.8	172	1.91	0.13	6.9	1.9	1.4 - 2.4
All Roche Integra/c111/c501 Reagents	23	4.41	0.11	2.6	4.4	3.3 - 5.6	23	1.90	0.06	3.4	1.9	1.4 - 2.4
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	15	4.26	0.22	5.2	4.3	3.1 - 5.4	14	1.73	0.12	7.0	1.7	1.2 - 2.2
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	10	4.57	0.18	3.9	4.7	3.4 - 5.8	10	1.92	0.06	3.3	1.9	1.4 - 2.4
All Chemistry Instruments	13	4.60	0.17	3.7	4.7	3.4 - 5.8	13	1.93	0.06	3.3	1.9	1.4 - 2.5
Olympus												
Olympus AU	16	4.58	0.22	4.8	4.6	3.4 - 5.8	16	1.86	0.09	4.8	1.9	1.3 - 2.4
Roche Integra												
Roche Integra	16	4.45	0.10	2.3	4.4	3.3 - 5.6	16	1.91	0.06	3.2	1.9	1.4 - 2.4
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	27	4.80	0.14	3.0	4.8	3.6 - 6.0	27	1.94	0.07	3.6	1.9	1.4 - 2.5
All Chemistry Instruments	29	4.79	0.14	2.9	4.8	3.5 - 6.0	29	1.94	0.07	3.5	1.9	1.4 - 2.5
Vital Diagnostics												
All Chemistry Instruments	16	4.23	0.37	8.7	4.3	3.1 - 5.3	16	1.86	0.16	8.5	1.9	1.3 - 2.4
VITROS												
VITROS 250,350,500,700,750,950	16	5.19	0.19	3.6	5.2	3.8 - 6.5	16	2.05	0.07	3.6	2.1	1.5 - 2.6
All Chemistry Instruments	24	5.16	0.22	4.3	5.1	3.8 - 6.5	24	2.03	0.09	4.3	2.1	1.5 - 2.6

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	171	3.08	0.20	6.6	3.1	2.3 - 3.9	173	1.51	0.14	9.2	1.5	1.1 - 1.9
All Roche Integra/c111/c501												
Reagents	23	2.93	0.08	2.8	2.9	2.2 - 3.7	24	1.48	0.10	6.6	1.5	1.1 - 1.9
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	15	2.92	0.20	6.9	2.9	2.1 - 3.7	15	1.37	0.15	10.8	1.4	1.0 - 1.8
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	10	3.15	0.10	3.1	3.2	2.3 - 4.0	10	1.51	0.10	6.6	1.5	1.1 - 1.9
All Chemistry Instruments	13	3.15	0.09	2.8	3.2	2.3 - 4.0	13	1.52	0.09	5.9	1.5	1.1 - 1.9
Olympus												
Olympus AU	16	3.03	0.15	4.9	3.0	2.2 - 3.8	16	1.46	0.09	6.1	1.5	1.0 - 1.9
Roche Integra												
Roche Integra	16	2.95	0.09	3.0	3.0	2.2 - 3.7	17	1.48	0.10	7.0	1.5	1.1 - 1.9
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	26	3.23	0.13	4.2	3.3	2.4 - 4.1	27	1.49	0.07	4.5	1.5	1.1 - 1.9
All Chemistry Instruments	28	3.23	0.13	4.0	3.3	2.4 - 4.1	29	1.50	0.08	5.0	1.5	1.1 - 1.9
Vital Diagnostics												
All Chemistry Instruments	16	2.91	0.22	7.7	3.0	2.1 - 3.7	16	1.57	0.22	13.7	1.5	1.1 - 2.0
VITROS												
VITROS 250,350,500,700,750,950	16	3.28	0.12	3.8	3.3	2.4 - 4.1	16	1.63	0.10	6.2	1.6	1.2 - 2.1
All Chemistry Instruments	23	3.27	0.11	3.3	3.3	2.4 - 4.1	24	1.61	0.11	6.7	1.6	1.2 - 2.1
Specimen CH-5												
All Method	175	2.29	0.17	7.5	2.3	1.7 - 2.9						
All Roche Integra/c111/c501												
Reagents	23	2.25	0.07	3.2	2.3	1.6 - 2.9						
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	15	2.12	0.13	6.2	2.1	1.5 - 2.7						
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	10	2.33	0.11	4.5	2.4	1.7 - 3.0						
All Chemistry Instruments	13	2.34	0.10	4.5	2.3	1.7 - 3.0						
Olympus												
Olympus AU	16	2.24	0.12	5.4	2.3	1.6 - 2.9						
Roche Integra												
Roche Integra	16	2.26	0.08	3.6	2.3	1.6 - 2.9						
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	27	2.37	0.11	4.5	2.4	1.7 - 3.0						
All Chemistry Instruments	29	2.36	0.10	4.4	2.4	1.7 - 3.0						
Vital Diagnostics												
All Chemistry Instruments	16	2.18	0.16	7.4	2.2	1.6 - 2.8						
VITROS												
VITROS 250,350,500,700,750,950	16	2.43	0.14	5.6	2.4	1.8 - 3.1						
All Chemistry Instruments	24	2.41	0.15	6.1	2.4	1.8 - 3.1						

Phosphorus (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<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	156	5.68	0.28	4.9	5.6	4.8 - 6.6	158	2.67	0.27	10.2	2.6	1.8 - 3.5
All Roche Integra/c111/c501												
Reagents	21	5.63	0.19	3.3	5.6	5.0 - 6.2	21	2.64	0.11	4.2	2.6	2.3 - 3.0
All Vital Diagnostics Reagents	13	5.68	0.71	12.5	5.8	3.5 - 7.9	13	2.28	0.21	9.1	2.3	1.6 - 3.0
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	20	5.83	0.25	4.3	5.9	5.0 - 6.6	20	2.39	0.13	5.5	2.4	1.9 - 2.8
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	11	5.61	0.18	3.1	5.6	5.0 - 6.2	10	2.77	0.24	8.7	2.8	2.0 - 3.5
All Chemistry Instruments	14	5.70	0.27	4.7	5.6	4.8 - 6.6	13	2.81	0.26	9.1	2.8	2.0 - 3.6
Roche Integra												
Roche Integra	16	5.67	0.18	3.2	5.7	5.1 - 6.3	16	2.67	0.11	4.0	2.7	2.3 - 3.0
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	26	5.62	0.10	1.7	5.6	5.3 - 6.0	26	2.60	0.08	3.2	2.6	2.3 - 2.9
All Chemistry Instruments	27	5.61	0.09	1.7	5.6	5.3 - 5.9	27	2.60	0.08	3.1	2.6	2.3 - 2.9
Vital Diagnostics												
All Chemistry Instruments	12	5.74	0.71	12.3	5.9	3.6 - 7.9	12	2.28	0.22	9.5	2.3	1.6 - 3.0
VITROS												
VITROS 250,350,500,700,750,950	15	5.44	0.18	3.2	5.5	4.9 - 6.0	15	2.93	0.12	4.0	2.9	2.5 - 3.3
All Chemistry Instruments	21	5.40	0.18	3.4	5.4	4.8 - 6.0	21	2.93	0.13	4.4	2.9	2.5 - 3.4

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	390	2.73	0.13	4.6	2.7	2.4 - 3.1	395	6.24	0.23	3.7	6.2	5.6 - 6.9
All Roche Integra/c111/c501 Reagents	46	2.68	0.08	3.0	2.7	2.4 - 3.0	46	6.17	0.14	2.2	6.2	5.5 - 6.8
All Vital Diagnostics Reagents	37	2.74	0.11	4.1	2.7	2.4 - 3.1	37	6.24	0.18	2.9	6.2	5.6 - 6.9
Abaxis Piccolo												
Abaxis Piccolo - waived	17	2.87	0.06	2.0	2.9	2.5 - 3.2	17	6.36	0.13	2.1	6.3	5.7 - 7.0
Abaxis Piccolo	16	2.91	0.07	2.3	2.9	2.6 - 3.2	16	6.39	0.11	1.8	6.4	5.7 - 7.1
All Chemistry Instruments	33	2.89	0.06	2.3	2.9	2.5 - 3.2	33	6.38	0.12	1.9	6.4	5.7 - 7.1
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	62	2.70	0.10	3.9	2.7	2.4 - 3.0	62	6.21	0.18	2.8	6.2	5.5 - 6.9
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	15	2.60	0.05	2.1	2.6	2.3 - 2.9	17	5.94	0.11	1.9	5.9	5.3 - 6.6
All Chemistry Instruments	20	2.61	0.06	2.5	2.6	2.3 - 2.9	22	5.95	0.13	2.1	6.0	5.3 - 6.6
Carolina Liquid Chemistries												
All Chemistry Instruments	11	2.66	0.16	5.9	2.6	2.3 - 3.0	11	6.04	0.34	5.6	5.9	5.4 - 6.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	2.83	0.08	3.0	2.8	2.5 - 3.2	16	6.40	0.19	3.0	6.4	5.7 - 7.1
Olympus												
Olympus AU	23	2.74	0.13	4.6	2.7	2.4 - 3.1	24	6.17	0.19	3.2	6.2	5.5 - 6.8
Roche Integra												
Roche Integra	40	2.67	0.08	2.8	2.7	2.4 - 3.0	40	6.16	0.14	2.2	6.1	5.5 - 6.8
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	2.79	0.10	3.5	2.8	2.5 - 3.1	59	6.48	0.13	2.0	6.5	5.8 - 7.2
All Chemistry Instruments	58	2.79	0.10	3.6	2.8	2.5 - 3.1	60	6.48	0.13	2.1	6.5	5.8 - 7.2
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	2.77	0.14	4.9	2.8	2.4 - 3.1	16	6.27	0.20	3.2	6.3	5.6 - 6.9
Vital Diagnostics Envoy 500	20	2.72	0.09	3.3	2.7	2.4 - 3.0	20	6.21	0.17	2.7	6.2	5.5 - 6.9
All Chemistry Instruments	36	2.74	0.11	4.1	2.7	2.4 - 3.1	36	6.24	0.18	2.9	6.2	5.6 - 6.9
VITROS												
VITROS 250,350,500,700,750,950	42	2.71	0.09	3.2	2.7	2.4 - 3.0	43	6.07	0.17	2.8	6.1	5.4 - 6.7
All Chemistry Instruments	48	2.71	0.09	3.2	2.7	2.4 - 3.0	50	6.07	0.17	2.8	6.1	5.4 - 6.7

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-3					Specimen CH-4					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	385	8.45	0.39	4.6	8.5	7.6 - 9.3	382	5.49	0.20	3.7	5.5	4.9 - 6.1
All Roche Integra/c111/c501												
Reagents	47	8.30	0.20	2.4	8.3	7.4 - 9.2	46	5.39	0.13	2.5	5.4	4.8 - 6.0
All Vital Diagnostics Reagents	37	8.54	0.29	3.4	8.5	7.6 - 9.4	37	5.46	0.16	3.0	5.5	4.9 - 6.1
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	8.8	7.8 - 9.7	6	-	-	-	5.6	5.0 - 6.2
Abaxis Piccolo	15	8.75	0.18	2.1	8.7	7.8 - 9.7	15	5.61	0.11	2.0	5.6	5.0 - 6.2
All Chemistry Instruments	21	8.76	0.17	1.9	8.7	7.8 - 9.7	21	5.60	0.10	1.8	5.6	5.0 - 6.2
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	62	8.44	0.21	2.5	8.5	7.5 - 9.3	63	5.50	0.17	3.1	5.5	4.9 - 6.1
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	8.25	0.14	1.7	8.2	7.4 - 9.1	17	5.19	0.12	2.2	5.2	4.6 - 5.8
All Chemistry Instruments	22	8.27	0.17	2.1	8.3	7.4 - 9.1	22	5.20	0.12	2.3	5.2	4.6 - 5.8
Carolina Liquid Chemistries												
All Chemistry Instruments	11	8.36	0.42	5.0	8.2	7.5 - 9.2	11	5.27	0.36	6.7	5.1	4.7 - 5.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	8.62	0.30	3.5	8.6	7.7 - 9.5	17	5.61	0.15	2.7	5.6	5.0 - 6.2
Olympus												
Olympus AU	24	8.45	0.23	2.7	8.5	7.6 - 9.3	24	5.44	0.16	3.0	5.5	4.8 - 6.0
Roche Integra												
Roche Integra	39	8.29	0.16	2.0	8.3	7.4 - 9.2	39	5.39	0.12	2.2	5.4	4.8 - 6.0
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	8.92	0.15	1.7	8.9	8.0 - 9.9	59	5.68	0.13	2.3	5.7	5.1 - 6.3
All Chemistry Instruments	60	8.91	0.17	1.9	8.9	8.0 - 9.8	60	5.68	0.13	2.3	5.7	5.1 - 6.3
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	8.54	0.36	4.2	8.6	7.6 - 9.4	16	5.46	0.21	3.8	5.5	4.9 - 6.1
Vital Diagnostics Envoy 500	20	8.54	0.24	2.8	8.6	7.6 - 9.4	20	5.47	0.12	2.2	5.4	4.9 - 6.1
All Chemistry Instruments	36	8.54	0.29	3.4	8.6	7.6 - 9.4	36	5.46	0.16	3.0	5.5	4.9 - 6.1
VITROS												
VITROS 250,350,500,700,750,950	43	7.88	0.21	2.7	7.9	7.0 - 8.7	43	5.44	0.15	2.7	5.4	4.8 - 6.0
All Chemistry Instruments	49	7.85	0.18	2.3	7.8	7.0 - 8.7	49	5.44	0.15	2.7	5.4	4.8 - 6.0

Protein, Total (g/dL)

Specimen CH-5						
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	380	6.99	0.26	3.7	7.0	6.2 - 7.7
All Roche Integra/c111/c501						
Reagents	46	6.88	0.15	2.2	6.9	6.1 - 7.6
All Vital Diagnostics Reagents	37	7.03	0.21	3.1	7.1	6.3 - 7.8
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	7.2	6.4 - 7.9
Abaxis Piccolo	15	7.15	0.11	1.6	7.1	6.4 - 7.9
All Chemistry Instruments	21	7.14	0.10	1.4	7.1	6.4 - 7.9
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	62	7.00	0.21	3.0	7.0	6.2 - 7.7
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	17	6.72	0.10	1.4	6.7	6.0 - 7.4
All Chemistry Instruments	22	6.75	0.14	2.0	6.7	6.0 - 7.5
Carolina Liquid Chemistries						
All Chemistry Instruments	11	6.84	0.33	4.9	6.7	6.1 - 7.6
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	7.14	0.20	2.8	7.2	6.4 - 7.9
Olympus						
Olympus AU	24	6.95	0.17	2.5	6.9	6.2 - 7.7
Roche Integra						
Roche Integra	40	6.88	0.16	2.3	6.9	6.1 - 7.6
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	58	7.30	0.15	2.0	7.3	6.5 - 8.1
All Chemistry Instruments	59	7.29	0.15	2.0	7.3	6.5 - 8.1
Vital Diagnostics						
Vital Diagnostics ATAC 8000	16	7.09	0.25	3.5	7.1	6.3 - 7.9
Vital Diagnostics Envoy 500	20	7.00	0.18	2.5	7.1	6.2 - 7.7
All Chemistry Instruments	36	7.04	0.21	3.0	7.1	6.3 - 7.8
VITROS						
VITROS 250,350,500,700,750,950	43	6.77	0.15	2.2	6.8	6.0 - 7.5
All Chemistry Instruments	49	6.76	0.16	2.3	6.8	6.0 - 7.5

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-1					Specimen CH-2					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	11.6	0.9	8.2	12	9 - 14	410	37.3	2.5	6.7	38	33 - 41
All Roche Integra/c111/c501												
Reagents	50	11.0	0.7	6.1	11	8 - 13	49	36.9	1.2	3.3	37	33 - 41
All Vital Diagnostics Reagents	38	12.7	0.7	5.1	13	10 - 15	38	39.0	1.5	3.8	39	35 - 43
Abaxis Piccolo												
Abaxis Piccolo - waived	17	11.5	0.5	4.5	11	9 - 14	17	35.9	1.0	2.7	36	32 - 40
Abaxis Piccolo	15	11.6	0.5	4.4	12	9 - 14	15	35.7	0.8	2.3	36	32 - 39
All Chemistry Instruments	32	11.5	0.5	4.4	12	9 - 14	32	35.8	0.9	2.5	36	32 - 40
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	63	11.9	0.7	6.1	12	9 - 14	63	39.0	1.4	3.6	39	35 - 43
All Chemistry Instruments	64	11.9	0.7	6.2	12	9 - 14	64	39.0	1.4	3.5	39	35 - 43
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	16	12.2	0.4	3.3	12	10 - 15	16	38.3	0.7	1.8	38	34 - 42
All Chemistry Instruments	22	12.2	0.4	3.5	12	10 - 15	22	38.5	0.7	1.9	39	34 - 42
Carolina Liquid Chemistries												
All Chemistry Instruments	10	11.9	1.1	9.2	12	9 - 14	10	38.2	2.3	6.1	38	34 - 42
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	12.2	1.0	8.3	12	10 - 15	17	38.3	1.4	3.8	38	34 - 42
Olympus												
Olympus AU	24	12.0	0.6	5.2	12	9 - 14	24	38.0	1.2	3.1	38	34 - 42
Roche Integra												
Roche Integra	41	10.9	0.7	6.2	11	8 - 13	40	36.8	1.3	3.4	37	33 - 41
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	11.5	0.9	8.1	12	9 - 14	60	38.4	1.1	3.0	39	34 - 42
All Chemistry Instruments	60	11.5	0.9	8.1	12	9 - 14	60	38.5	1.0	2.7	39	35 - 42
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	12.4	0.5	4.1	12	10 - 15	17	38.4	2.8	7.2	39	34 - 42
Vital Diagnostics Envoy 500	21	13.0	0.5	4.2	13	11 - 15	21	39.1	0.9	2.3	39	35 - 43
All Chemistry Instruments	37	12.8	0.6	4.7	13	10 - 15	37	39.0	1.5	3.9	39	35 - 43
VITROS												
VITROS 250,350,500,700,750,950	44	10.5	0.5	4.8	11	8 - 13	44	32.5	0.7	2.3	33	29 - 36
All Chemistry Instruments	55	10.5	0.5	5.1	10	8 - 13	55	32.4	0.7	2.3	32	29 - 36

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	396	19.1	1.1	5.8	19	17 - 22	396	43.3	3.2	7.3	44	39 - 48
All Roche Integra/c111/c501												
Reagents	48	18.6	0.7	3.7	19	16 - 21	48	43.0	1.4	3.3	43	39 - 47
All Vital Diagnostics Reagents	39	20.4	1.0	4.9	20	18 - 23	39	45.3	1.8	4.0	45	41 - 50
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	18	16 - 21	6	-	-	-	42	38 - 46
Abaxis Piccolo	14	18.2	0.4	2.3	18	16 - 21	14	41.8	0.9	2.1	42	38 - 46
All Chemistry Instruments	20	18.3	0.6	3.1	18	16 - 21	20	41.9	0.9	2.0	42	38 - 46
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	62	19.4	0.9	4.8	19	17 - 22	62	45.4	1.7	3.8	45	41 - 50
All Chemistry Instruments	63	19.4	0.9	4.8	19	17 - 22	63	45.4	1.7	3.8	45	41 - 50
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	16	20.0	0.5	2.6	20	18 - 22	16	44.4	0.9	2.0	45	40 - 49
All Chemistry Instruments	22	20.0	0.5	2.4	20	18 - 23	22	44.6	1.0	2.2	45	40 - 49
Carolina Liquid Chemistries												
All Chemistry Instruments	10	19.1	1.7	8.7	20	17 - 22	10	45.0	2.2	4.8	45	40 - 50
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	19.8	1.0	5.1	20	17 - 22	17	44.6	1.5	3.4	44	40 - 49
Olympus												
Olympus AU	24	19.3	0.7	3.6	19	17 - 22	24	44.3	1.2	2.7	44	40 - 49
Roche Integra												
Roche Integra	39	18.5	0.7	3.9	19	16 - 21	39	43.0	1.5	3.5	43	39 - 47
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	19.2	0.8	4.3	19	17 - 22	60	44.6	1.1	2.5	45	40 - 49
All Chemistry Instruments	60	19.2	0.8	4.3	19	17 - 22	61	44.6	1.1	2.5	45	40 - 49
Vital Diagnostics												
Vital Diagnostics ATAC 8000	17	19.9	1.0	5.2	20	17 - 22	17	45.5	2.2	4.7	46	41 - 50
Vital Diagnostics Envoy 500	21	20.7	0.6	3.1	21	18 - 23	21	45.0	1.2	2.8	45	40 - 49
All Chemistry Instruments	38	20.4	0.9	4.5	20	18 - 23	38	45.2	1.7	3.8	45	41 - 50
VITROS												
VITROS 250,350,500,700,750,950	44	18.2	0.6	3.2	18	16 - 21	44	36.9	0.9	2.6	37	33 - 41
All Chemistry Instruments	54	18.1	0.6	3.3	18	16 - 21	55	36.7	1.0	2.6	37	33 - 41

Urea Nitrogen (mg/dL)

Specimen CH-5						
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	397	31.4	2.0	6.3	32	28 - 35
All Roche Integra/c111/c501						
Reagents	49	30.7	1.3	4.2	31	27 - 34
All Vital Diagnostics Reagents	39	33.1	1.3	3.8	33	30 - 37
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	30	27 - 33
Abaxis Piccolo	14	29.9	1.0	3.3	30	27 - 33
All Chemistry Instruments	20	30.1	0.9	3.0	30	27 - 33
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	63	32.6	1.4	4.3	33	29 - 36
All Chemistry Instruments	64	32.6	1.4	4.2	33	29 - 36
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	16	32.6	0.7	2.2	33	29 - 36
All Chemistry Instruments	22	32.5	0.7	2.3	33	29 - 36
Carolina Liquid Chemistries						
All Chemistry Instruments	10	32.5	1.6	4.9	33	29 - 36
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	32.4	1.1	3.4	33	29 - 36
Olympus						
Olympus AU	24	31.8	0.9	2.7	32	28 - 35
Roche Integra						
Roche Integra	40	30.5	1.3	4.4	31	27 - 34
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	60	32.1	1.0	3.2	32	29 - 35
All Chemistry Instruments	61	32.0	1.0	3.2	32	29 - 35
Vital Diagnostics						
Vital Diagnostics ATAC 8000	17	32.8	1.5	4.6	33	29 - 36
Vital Diagnostics Envoy 500	21	33.1	0.8	2.4	33	30 - 37
All Chemistry Instruments	38	33.0	1.2	3.6	33	30 - 36
VITROS						
VITROS 250,350,500,700,750,950	44	28.1	0.7	2.6	28	25 - 31
All Chemistry Instruments	55	28.0	0.8	2.7	28	25 - 31

Uric Acid (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	259	6.34	0.29	4.5	6.3	5.2 - 7.5	259	9.95	0.37	3.7	10.0	8.2 - 11.7
All Roche Integra/c111/c501												
Reagents	30	6.27	0.19	3.0	6.3	5.2 - 7.4	30	9.98	0.25	2.6	10.0	8.2 - 11.7
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	40	6.66	0.24	3.6	6.7	5.5 - 7.8	40	10.21	0.36	3.6	10.2	8.4 - 12.0
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	15	6.31	0.12	2.0	6.3	5.2 - 7.4	15	9.37	0.15	1.6	9.4	7.7 - 11.0
All Chemistry Instruments	22	6.33	0.14	2.1	6.3	5.2 - 7.5	22	9.35	0.15	1.6	9.4	7.7 - 11.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	6.18	0.14	2.3	6.2	5.1 - 7.3	13	9.71	0.25	2.5	9.7	8.0 - 11.4
Olympus												
Olympus AU	18	6.69	0.25	3.7	6.6	5.5 - 7.9	18	10.41	0.34	3.3	10.4	8.6 - 12.2
Roche Integra												
Roche Integra	27	6.26	0.19	3.0	6.3	5.1 - 7.4	27	9.97	0.26	2.6	10.0	8.2 - 11.7
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	42	6.22	0.13	2.0	6.2	5.1 - 7.3	41	9.94	0.19	1.9	9.9	8.2 - 11.7
All Chemistry Instruments	43	6.22	0.12	2.0	6.2	5.1 - 7.3	42	9.94	0.19	1.9	9.9	8.2 - 11.7
Vital Diagnostics												
Vital Diagnostics ATAC 8000	11	6.22	0.22	3.5	6.2	5.1 - 7.3	11	9.56	0.48	5.0	9.5	7.9 - 11.2
Vital Diagnostics Envoy 500	14	6.44	0.12	1.8	6.4	5.3 - 7.6	15	10.17	0.26	2.5	10.2	8.4 - 11.9
All Chemistry Instruments	25	6.34	0.20	3.1	6.4	5.2 - 7.5	26	9.91	0.47	4.8	10.1	8.2 - 11.6
VITROS												
VITROS 250,350,500,700,750,950	29	6.02	0.13	2.2	6.0	4.9 - 7.1	29	9.93	0.22	2.2	10.0	8.2 - 11.7
All Chemistry Instruments	35	6.02	0.14	2.3	6.0	4.9 - 7.1	35	9.95	0.22	2.2	10.0	8.2 - 11.7

Uric Acid (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	261	2.32	0.52	22.3	2.1	1.9 - 2.8	257	12.65	0.55	4.3	12.7	10.4 - 14.8
All Roche Integra/c111/c501												
Reagents	30	1.97	0.07	3.6	2.0	1.6 - 2.4	29	12.56	0.32	2.6	12.6	10.4 - 14.7
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	40	3.40	0.18	5.2	3.4	2.8 - 4.0	40	13.01	0.45	3.5	13.0	10.8 - 15.3
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	15	2.21	0.05	2.1	2.2	1.8 - 2.6	14	11.70	0.27	2.3	11.8	9.7 - 13.7
All Chemistry Instruments	22	2.23	0.06	2.5	2.2	1.8 - 2.7	21	11.66	0.27	2.3	11.8	9.6 - 13.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	1.90	0.11	5.7	1.9	1.5 - 2.3	13	12.45	0.65	5.3	12.3	10.3 - 14.6
Olympus												
Olympus AU	18	2.13	0.07	3.2	2.1	1.7 - 2.5	18	13.23	0.49	3.7	13.1	10.9 - 15.5
Roche Integra												
Roche Integra	27	1.96	0.07	3.5	2.0	1.6 - 2.3	26	12.53	0.34	2.7	12.5	10.4 - 14.7
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	42	2.19	0.17	7.8	2.2	1.8 - 2.6	41	12.64	0.22	1.8	12.6	10.4 - 14.8
All Chemistry Instruments	43	2.19	0.17	7.9	2.2	1.8 - 2.6	42	12.64	0.22	1.7	12.6	10.4 - 14.8
Vital Diagnostics												
Vital Diagnostics ATAC 8000	11	2.17	0.11	5.1	2.2	1.8 - 2.6	11	12.23	0.35	2.8	12.2	10.1 - 14.4
Vital Diagnostics Envoy 500	15	2.06	0.15	7.5	2.1	1.7 - 2.5	16	13.05	0.38	2.9	13.1	10.8 - 15.3
All Chemistry Instruments	26	2.11	0.15	7.0	2.1	1.7 - 2.5	27	12.71	0.55	4.3	12.8	10.5 - 14.9
VITROS												
VITROS 250,350,500,700,750,950	28	2.02	0.06	2.8	2.0	1.6 - 2.4	29	12.59	0.28	2.2	12.5	10.4 - 14.8
All Chemistry Instruments	34	2.02	0.06	2.7	2.0	1.6 - 2.4	34	12.57	0.23	1.8	12.6	10.4 - 14.8

Uric Acid (mg/dL)

Specimen CH-5						
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	258	7.38	0.28	3.8	7.4	6.1 - 8.7
All Roche Integra/c111/c501						
Reagents	30	7.34	0.21	2.8	7.4	6.0 - 8.6
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	40	7.65	0.24	3.1	7.6	6.3 - 9.0
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	15	7.05	0.15	2.1	7.1	5.8 - 8.3
All Chemistry Instruments	21	7.04	0.13	1.9	7.1	5.8 - 8.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	13	7.08	0.20	2.9	7.0	5.8 - 8.3
Olympus						
Olympus AU	18	7.64	0.24	3.2	7.6	6.3 - 9.0
Roche Integra						
Roche Integra	27	7.32	0.21	2.9	7.3	6.0 - 8.6
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	41	7.30	0.18	2.5	7.3	6.0 - 8.6
All Chemistry Instruments	42	7.30	0.18	2.5	7.3	6.0 - 8.6
Vital Diagnostics						
Vital Diagnostics ATAC 8000	10	7.20	0.20	2.8	7.2	5.9 - 8.5
Vital Diagnostics Envoy 500	16	7.60	0.23	3.0	7.5	6.3 - 8.9
All Chemistry Instruments	26	7.45	0.29	3.9	7.5	6.1 - 8.8
VITROS						
VITROS 250,350,500,700,750,950	29	7.34	0.15	2.1	7.4	6.0 - 8.6
All Chemistry Instruments	34	7.33	0.13	1.8	7.4	6.0 - 8.6

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	392	105.7	1.9	1.8	106	100 - 111	393	95.7	1.9	2.0	96	90 - 101
Abaxis Piccolo												
Abaxis Piccolo - waived	17	105.1	2.1	2.0	105	99 - 111	17	96.1	2.0	2.1	96	91 - 101
Abaxis Piccolo	15	104.4	1.3	1.2	104	99 - 110	15	93.9	1.9	2.0	94	89 - 99
All Chemistry Instruments	32	104.8	1.8	1.7	105	99 - 110	32	95.1	2.2	2.3	95	90 - 100
ISE Diluted												
Beckman Synchron	13	106.1	2.5	2.4	106	100 - 112	13	96.8	2.0	2.1	96	91 - 102
Beckman Synchron LX/Pro/DxC	15	105.0	2.3	2.2	104	99 - 111	15	95.2	1.9	2.0	95	90 - 100
Olympus AU	23	106.4	1.2	1.1	106	101 - 112	23	94.9	1.0	1.0	95	90 - 100
Roche Integra	37	106.5	1.0	1.0	106	101 - 112	37	95.6	1.5	1.5	95	90 - 101
Siemens Dimension QuickLyte - RxL	13	108.2	1.4	1.3	108	102 - 114	13	94.4	1.0	1.0	94	89 - 100
Siemens Dimension QuickLyte -												
Xpand/EXL	26	107.2	1.2	1.1	107	101 - 113	27	95.0	1.4	1.5	95	90 - 100
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	11	108.5	0.9	0.9	109	103 - 114	11	95.4	1.7	1.8	95	90 - 101
Vital Diagnostics ATAC 8000	11	103.1	3.4	3.3	103	97 - 109	11	97.8	4.9	5.0	97	92 - 103
Vital Diagnostics Envoy 500	18	105.6	3.4	3.2	105	100 - 111	18	101.5	5.6	5.5	101	96 - 107
All Chemistry Instruments	187	106.3	2.0	1.9	106	100 - 112	181	95.4	1.8	1.8	95	90 - 101
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	69	105.6	1.1	1.1	105	100 - 111	68	96.4	1.3	1.3	96	91 - 102
Horiba ABX Pentra 400	13	105.4	2.8	2.6	104	100 - 111	13	97.8	2.7	2.7	97	92 - 103
All Chemistry Instruments	114	105.6	1.5	1.4	106	100 - 111	114	96.3	1.6	1.7	96	91 - 102
VITROS												
VITROS 250,350,500,700,750,950	42	104.0	1.8	1.7	104	98 - 110	42	94.7	1.5	1.6	95	90 - 100
All Chemistry Instruments	49	104.1	1.8	1.7	105	98 - 110	49	94.9	1.5	1.6	95	90 - 100

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	376	119.7	4.2	3.5	120	113 - 126	379	88.0	2.1	2.4	88	83 - 93
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	114	107 - 119	6	-	-	-	90	84 - 94
Abaxis Piccolo	14	112.0	1.2	1.1	112	106 - 118	14	88.4	1.9	2.2	88	83 - 93
All Chemistry Instruments	20	112.7	1.8	1.6	113	107 - 119	20	88.7	1.9	2.2	89	84 - 94
ISE Diluted												
Beckman Synchron	13	116.2	2.7	2.4	115	110 - 122	13	90.5	2.2	2.5	90	85 - 95
Beckman Synchron LX/PRO/DxC	15	114.9	1.5	1.3	115	109 - 121	15	89.0	1.7	1.9	89	84 - 94
Olympus AU	23	117.0	1.2	1.0	117	111 - 123	23	87.9	0.8	0.9	88	83 - 93
Roche Integra	37	120.5	2.8	2.4	120	114 - 127	36	87.6	1.5	1.7	88	83 - 92
Siemens Dimension QuickLyte - RxL	13	124.3	1.7	1.4	124	118 - 131	13	84.0	1.1	1.3	84	79 - 89
Siemens Dimension QuickLyte -												
Xpand/EXL	26	122.1	1.5	1.3	122	116 - 129	26	85.7	1.0	1.2	86	81 - 90
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	11	123.2	1.7	1.3	124	117 - 130	11	85.2	1.1	1.3	85	80 - 90
Vital Diagnostics ATAC 8000	10	118.6	3.9	3.3	118	112 - 125	11	90.7	4.6	5.1	89	86 - 96
Vital Diagnostics Envoy 500	16	124.0	3.2	2.6	124	117 - 131	18	92.5	3.9	4.2	92	87 - 98
All Chemistry Instruments	187	119.8	4.0	3.3	120	113 - 126	185	87.6	2.4	2.7	87	83 - 92
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	67	123.4	1.4	1.2	123	117 - 130	67	88.3	1.5	1.7	88	83 - 93
Horiba ABX Pentra 400	8	-	-	-	123	115 - 129	13	89.2	2.7	3.0	88	84 - 94
All Chemistry Instruments	108	122.0	3.3	2.7	123	115 - 129	114	88.3	1.8	2.0	88	83 - 93
VITROS												
VITROS 250,350,500,700,750,950	42	116.6	1.8	1.6	117	110 - 123	42	88.1	1.3	1.5	88	83 - 93
All Chemistry Instruments	49	116.8	1.8	1.5	117	110 - 123	49	88.3	1.3	1.5	89	83 - 93

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	375	103.7	2.4	2.3	104	98 - 109
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	103	96 - 107
Abaxis Piccolo	14	100.8	2.3	2.2	100	95 - 106
All Chemistry Instruments	20	101.1	2.1	2.1	101	96 - 107
ISE Diluted						
Beckman Synchron	13	102.7	2.1	2.0	102	97 - 108
Beckman Synchron LX/Pro/DxC	15	101.6	1.6	1.6	101	96 - 107
Olympus AU	23	102.7	1.1	1.0	103	97 - 108
Roche Integra	37	103.8	2.0	1.9	103	98 - 110
Siemens Dimension QuickLyte - RxL	13	104.2	1.1	1.1	104	98 - 110
Siemens Dimension QuickLyte -						
Xpand/EXL	26	103.8	1.1	1.1	104	98 - 109
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	11	104.2	1.1	1.0	104	98 - 110
Vital Diagnostics ATAC 8000	10	103.3	2.8	2.7	103	98 - 109
Vital Diagnostics Envoy 500	16	107.3	2.5	2.3	107	101 - 113
All Chemistry Instruments	182	103.5	2.0	1.9	103	98 - 109
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	66	105.6	1.5	1.4	105	100 - 111
Horiba ABX Pentra 400	10	105.6	3.4	3.3	106	100 - 111
All Chemistry Instruments	109	104.9	2.2	2.1	105	99 - 111
VITROS						
VITROS 250,350,500,700,750,950	42	102.6	1.6	1.6	103	97 - 108
All Chemistry Instruments	49	102.7	1.6	1.6	103	97 - 108

CO₂ (mmol/L)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	389	30.6	2.4	7.7	31	23 - 38	385	21.8	1.9	8.8	22	16 - 28
Enzymatic Reagent												
Abaxis Piccolo - waived	13	31.4	1.4	4.4	31	27 - 36	13	23.5	2.1	8.9	24	17 - 30
Abaxis Piccolo	11	30.9	1.0	3.4	31	27 - 35	11	22.2	1.7	7.5	22	17 - 28
Alfa Wassermann ACE/NexCT/Alera	45	31.8	2.2	6.9	32	25 - 39	44	21.9	1.7	7.6	22	16 - 27
Horiba ABX Pentra 400	12	29.6	2.2	7.4	29	23 - 37	12	21.3	1.9	9.0	21	15 - 28
Olympus AU	23	30.9	2.7	8.9	31	22 - 40	23	22.2	2.5	11.2	22	14 - 30
Roche Integra	36	30.6	1.9	6.2	31	24 - 37	36	20.9	1.6	7.6	21	16 - 26
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	36	32.6	1.4	4.4	33	28 - 37	36	23.1	1.2	5.3	23	19 - 27
All Chemistry Instruments	204	31.3	2.1	6.7	31	24 - 38	205	22.0	2.0	9.0	22	16 - 28
ISE Diluted												
Beckman Synchron	13	29.8	3.1	10.2	30	20 - 39	13	21.5	3.6	16.6	22	10 - 33
Beckman Synchron LX/Pro/DxC	15	30.3	2.0	6.5	31	24 - 37	15	21.6	1.8	8.4	22	16 - 28
Vital Diagnostics ATAC 8000	11	28.9	2.3	8.1	29	21 - 36	11	22.4	1.7	7.6	23	17 - 28
Vital Diagnostics Envoy 500	16	28.2	2.1	7.6	29	21 - 35	16	20.1	4.5	22.3	20	6 - 34
All Chemistry Instruments	74	29.9	2.6	8.8	30	21 - 38	70	21.9	2.2	10.3	22	15 - 29
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	19	31.9	1.9	5.9	32	26 - 38	19	22.0	1.6	7.3	22	17 - 27
All Chemistry Instruments	45	30.8	2.2	7.2	31	24 - 38	45	21.9	1.9	8.5	22	16 - 28
VITROS												
VITROS 250,350,500,700,750,950	41	28.6	1.4	5.1	29	24 - 33	41	21.3	1.2	5.6	22	17 - 25
All Chemistry Instruments	48	28.6	1.5	5.1	29	24 - 33	48	21.4	1.2	5.8	22	17 - 26

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	397	4.63	0.12	2.6	4.6	4.1 - 5.2	407	3.57	0.11	3.1	3.6	3.0 - 4.1
Abaxis Piccolo												
Abaxis Piccolo - waived	17	5.04	0.15	3.0	5.0	4.5 - 5.6	17	3.66	0.14	3.7	3.7	3.1 - 4.2
Abaxis Piccolo	15	5.02	0.18	3.6	5.0	4.5 - 5.6	15	3.73	0.18	4.7	3.7	3.2 - 4.3
All Chemistry Instruments	32	5.03	0.16	3.2	5.0	4.5 - 5.6	32	3.70	0.16	4.3	3.7	3.1 - 4.2
ISE Diluted												
Beckman Synchron	12	4.63	0.09	1.9	4.6	4.1 - 5.2	12	3.54	0.12	3.3	3.6	3.0 - 4.1
Beckman Synchron LX/Pro/DxC	15	4.62	0.08	1.7	4.6	4.1 - 5.2	15	3.51	0.06	1.7	3.5	3.0 - 4.1
Olympus AU	23	4.63	0.06	1.3	4.6	4.1 - 5.2	23	3.53	0.05	1.3	3.5	3.0 - 4.1
Roche Integra	37	4.65	0.05	1.1	4.7	4.1 - 5.2	36	3.56	0.05	1.4	3.6	3.0 - 4.1
Siemens Dimension QuickLyte - RxL	13	4.60	0.04	0.9	4.6	4.1 - 5.1	13	3.48	0.06	1.6	3.5	2.9 - 4.0
Siemens Dimension QuickLyte -												
Xpand/EXL	29	4.65	0.05	1.1	4.7	4.1 - 5.2	30	3.50	0.04	1.2	3.5	3.0 - 4.1
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	11	4.64	0.09	2.0	4.7	4.1 - 5.2	11	3.52	0.08	2.1	3.5	3.0 - 4.1
Vital Diagnostics ATAC 8000	11	4.59	0.18	3.8	4.6	4.0 - 5.1	11	3.46	0.10	3.0	3.4	2.9 - 4.0
Vital Diagnostics Envoy 500	17	4.42	0.12	2.7	4.4	3.9 - 5.0	17	3.32	0.05	1.6	3.3	2.8 - 3.9
All Chemistry Instruments	184	4.62	0.09	1.9	4.6	4.1 - 5.2	188	3.51	0.09	2.5	3.5	3.0 - 4.1
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	67	4.64	0.06	1.3	4.6	4.1 - 5.2	66	3.63	0.07	2.0	3.6	3.1 - 4.2
Horiba ABX Pentra 400	14	4.44	0.06	1.4	4.4	3.9 - 5.0	14	3.56	0.06	1.8	3.6	3.0 - 4.1
All Chemistry Instruments	120	4.60	0.11	2.4	4.6	4.0 - 5.1	119	3.60	0.09	2.5	3.6	3.0 - 4.1
VITROS												
VITROS 250,350,500,700,750,950	43	4.62	0.08	1.7	4.6	4.1 - 5.2	44	3.70	0.07	2.0	3.7	3.1 - 4.2
All Chemistry Instruments	56	4.63	0.08	1.7	4.6	4.1 - 5.2	57	3.68	0.09	2.3	3.7	3.1 - 4.2

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	397	6.55	0.21	3.2	6.5	6.0 - 7.1	397	2.60	0.10	4.0	2.6	2.0 - 3.1
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	6.7	6.1 - 7.2	6	-	-	-	2.6	2.1 - 3.2
Abaxis Piccolo	14	6.72	0.25	3.7	6.7	6.2 - 7.3	14	2.64	0.19	7.4	2.6	2.1 - 3.2
All Chemistry Instruments	19	6.65	0.17	2.6	6.6	6.1 - 7.2	20	2.62	0.18	6.9	2.6	2.1 - 3.2
ISE Diluted												
Beckman Synchron	12	6.48	0.09	1.3	6.5	5.9 - 7.0	12	2.59	0.16	6.0	2.6	2.0 - 3.1
Beckman Synchron LX/Pro/DxC	15	6.53	0.14	2.1	6.5	6.0 - 7.1	15	2.55	0.07	2.9	2.5	2.0 - 3.1
Olympus AU	23	6.40	0.09	1.4	6.4	5.9 - 7.0	23	2.62	0.05	2.0	2.6	2.1 - 3.2
Roche Integra	36	6.45	0.07	1.0	6.5	5.9 - 7.0	33	2.60	0.00	0.0	2.6	2.1 - 3.1
Siemens Dimension QuickLyte - RxL	13	6.39	0.10	1.5	6.4	5.8 - 6.9	13	2.50	0.00	0.0	2.5	2.0 - 3.0
Siemens Dimension QuickLyte -												
Xpand/EXL	30	6.46	0.08	1.3	6.5	5.9 - 7.0	30	2.51	0.03	1.2	2.5	2.0 - 3.1
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	11	6.46	0.11	1.7	6.4	5.9 - 7.0	11	2.52	0.06	2.4	2.5	2.0 - 3.1
Vital Diagnostics ATAC 8000	11	6.36	0.32	5.0	6.5	5.8 - 6.9	11	2.54	0.08	3.2	2.5	2.0 - 3.1
Vital Diagnostics Envoy 500	17	6.16	0.12	2.0	6.1	5.6 - 6.7	17	2.42	0.07	3.0	2.4	1.9 - 3.0
All Chemistry Instruments	184	6.43	0.12	1.8	6.4	5.9 - 7.0	188	2.55	0.08	3.3	2.6	2.0 - 3.1
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	66	6.78	0.12	1.8	6.8	6.2 - 7.3	66	2.67	0.09	3.4	2.7	2.1 - 3.2
Horiba ABX Pentra 400	14	6.41	0.17	2.6	6.4	5.9 - 7.0	14	2.66	0.08	2.8	2.7	2.1 - 3.2
All Chemistry Instruments	120	6.63	0.22	3.4	6.7	6.1 - 7.2	118	2.63	0.10	3.8	2.6	2.1 - 3.2
VITROS												
VITROS 250,350,500,700,750,950	43	6.77	0.10	1.5	6.8	6.2 - 7.3	44	2.69	0.05	1.9	2.7	2.1 - 3.2
All Chemistry Instruments	56	6.76	0.10	1.5	6.8	6.2 - 7.3	56	2.68	0.05	2.0	2.7	2.1 - 3.2

Potassium (mmol/L)

Specimen CH-5						
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	394	4.55	0.14	3.1	4.5	4.0 - 5.1
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	4.8	4.2 - 5.3
Abaxis Piccolo	14	4.78	0.15	3.1	4.8	4.2 - 5.3
All Chemistry Instruments	20	4.76	0.16	3.4	4.8	4.2 - 5.3
ISE Diluted						
Beckman Synchron	12	4.52	0.08	1.8	4.5	4.0 - 5.1
Beckman Synchron LX/Pro/DxC	15	4.53	0.06	1.3	4.5	4.0 - 5.1
Olympus AU	23	4.48	0.06	1.3	4.5	3.9 - 5.0
Roche Integra	36	4.51	0.04	0.9	4.5	4.0 - 5.1
Siemens Dimension QuickLyte - RxL	13	4.43	0.08	1.7	4.4	3.9 - 5.0
Siemens Dimension QuickLyte -						
Xpand/EXL	29	4.49	0.06	1.4	4.5	3.9 - 5.0
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	11	4.47	0.05	1.0	4.5	3.9 - 5.0
Vital Diagnostics ATAC 8000	11	4.41	0.21	4.7	4.5	3.9 - 5.0
Vital Diagnostics Envoy 500	17	4.26	0.07	1.7	4.3	3.7 - 4.8
All Chemistry Instruments	187	4.47	0.10	2.2	4.5	3.9 - 5.0
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	64	4.63	0.08	1.6	4.6	4.1 - 5.2
Horiba ABX Pentra 400	14	4.51	0.06	1.4	4.5	4.0 - 5.1
All Chemistry Instruments	116	4.56	0.11	2.4	4.6	4.0 - 5.1
VITROS						
VITROS 250,350,500,700,750,950	44	4.73	0.09	1.8	4.7	4.2 - 5.3
All Chemistry Instruments	56	4.72	0.09	1.8	4.7	4.2 - 5.3

Sodium (mmol/L)

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

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	404	143.3	2.1	1.5	143	139 - 148	404	130.6	2.4	1.8	131	126 - 135
Abaxis Piccolo												
Abaxis Piccolo - waived	17	144.4	2.0	1.4	145	140 - 149	17	133.1	1.7	1.2	134	129 - 138
Abaxis Piccolo	15	145.3	2.0	1.3	145	141 - 150	15	133.5	2.3	1.7	133	129 - 138
All Chemistry Instruments	32	144.8	2.0	1.4	145	140 - 149	32	133.3	1.9	1.5	133	129 - 138
ISE Diluted												
Beckman Synchron	12	144.0	1.7	1.1	144	140 - 148	12	129.4	2.2	1.7	130	125 - 134
Beckman Synchron LX/Pro/DxC	14	143.1	1.9	1.3	144	139 - 148	14	129.9	1.7	1.3	130	125 - 134
Olympus AU	22	143.2	1.7	1.2	143	139 - 148	22	128.7	1.3	1.0	129	124 - 133
Roche Integra	37	142.9	1.3	0.9	143	138 - 147	37	128.6	1.2	1.0	129	124 - 133
Siemens Dimension QuickLyte - RxL	13	142.9	1.6	1.1	143	138 - 147	13	129.0	1.7	1.3	129	125 - 133
Siemens Dimension QuickLyte -												
Xpand/EXL	28	145.3	1.6	1.1	146	141 - 150	29	130.8	1.7	1.3	131	126 - 135
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	11	144.7	2.1	1.5	145	140 - 149	11	130.8	2.1	1.6	131	126 - 135
Vital Diagnostics ATAC 8000	11	144.0	2.7	1.9	145	140 - 148	11	130.7	4.1	3.2	130	126 - 135
Vital Diagnostics Envoy 500	17	142.1	2.5	1.8	142	138 - 147	17	127.5	2.0	1.6	128	123 - 132
All Chemistry Instruments	186	143.5	2.0	1.4	143	139 - 148	186	129.3	1.9	1.4	129	125 - 134
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	68	142.1	1.3	0.9	142	138 - 147	66	130.9	1.1	0.8	131	126 - 135
Horiba ABX Pentra 400	12	139.5	2.5	1.8	140	135 - 144	12	131.3	1.3	1.0	131	127 - 136
All Chemistry Instruments	120	142.4	1.9	1.3	142	138 - 147	119	130.7	1.5	1.1	131	126 - 135
VITROS												
VITROS 250,350,500,700,750,950	44	143.6	1.8	1.2	144	139 - 148	44	133.7	1.6	1.2	134	129 - 138
All Chemistry Instruments	51	143.8	1.8	1.2	144	139 - 148	50	133.9	1.4	1.0	134	129 - 138

Sodium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	396	161.5	4.8	3.0	160	157 - 166	391	120.7	2.1	1.7	121	116 - 125
Abaxis Piccolo												
Abaxis Piccolo - waived	6	-	-	-	168	163 - 172	6	-	-	-	123	119 - 128
Abaxis Piccolo	14	167.1	2.6	1.5	168	163 - 172	14	123.5	1.9	1.5	124	119 - 128
All Chemistry Instruments	20	167.2	2.8	1.7	168	163 - 172	20	123.2	2.0	1.6	124	119 - 128
ISE Diluted												
Beckman Synchron	12	158.2	1.9	1.2	159	154 - 163	12	120.1	2.9	2.4	120	116 - 125
Beckman Synchron LX/PRO/DxC	14	159.4	2.4	1.5	159	155 - 164	14	120.6	2.2	1.8	121	116 - 125
Olympus AU	22	157.2	1.7	1.1	157	153 - 162	22	119.2	1.0	0.9	119	115 - 124
Roche Integra	36	157.0	1.4	0.9	157	152 - 161	36	118.9	1.2	1.0	119	114 - 123
Siemens Dimension QuickLyte - RxL	13	156.2	2.5	1.6	156	152 - 161	13	119.8	1.7	1.5	119	115 - 124
Siemens Dimension QuickLyte -												
Xpand/EXL	28	158.3	1.6	1.0	158	154 - 163	28	121.0	1.2	1.0	121	117 - 125
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	11	157.5	2.8	1.8	157	153 - 162	11	121.5	1.8	1.4	121	117 - 126
Vital Diagnostics ATAC 8000	11	160.3	2.5	1.6	160	156 - 165	11	120.4	4.2	3.5	120	116 - 125
Vital Diagnostics Envoy 500	17	157.7	2.6	1.6	157	153 - 162	17	117.9	1.7	1.5	118	113 - 122
All Chemistry Instruments	185	157.9	2.2	1.4	158	153 - 162	182	119.8	1.7	1.4	120	115 - 124
ISE Undiluted												
Alfa Wassermann ACE/NexCT/Alera	66	165.7	1.7	1.0	166	161 - 170	67	120.3	1.2	1.0	120	116 - 125
Horiba ABX Pentra 400	12	162.1	3.6	2.2	162	158 - 167	12	121.1	1.6	1.3	122	117 - 126
All Chemistry Instruments	121	163.3	3.8	2.3	164	159 - 168	122	120.3	1.6	1.3	120	116 - 125
VITROS												
VITROS 250,350,500,700,750,950	44	167.8	2.4	1.4	168	163 - 172	44	123.0	1.6	1.3	123	119 - 128
All Chemistry Instruments	51	167.9	2.3	1.3	168	163 - 172	51	123.1	1.5	1.2	123	119 - 128

Sodium (mmol/L)

Specimen CH-5

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	393	140.8	3.1	2.2	140	136 - 145
Abaxis Piccolo						
Abaxis Piccolo - waived	6	-	-	-	145	140 - 149
Abaxis Piccolo	14	144.2	2.4	1.7	145	140 - 149
All Chemistry Instruments	20	144.2	2.3	1.6	145	140 - 149
ISE Diluted						
Beckman Synchron	12	138.9	2.3	1.6	139	134 - 143
Beckman Synchron LX/Pro/DxC	14	139.8	1.4	1.0	140	135 - 144
Olympus AU	22	138.5	1.4	1.0	138	134 - 143
Roche Integra	37	138.0	1.3	0.9	138	133 - 142
Siemens Dimension QuickLyte - RxL	13	138.1	2.5	1.8	138	134 - 143
Siemens Dimension QuickLyte -						
Xpand/EXL	29	140.0	1.8	1.3	140	135 - 144
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	11	139.0	1.5	1.1	139	135 - 143
Vital Diagnostics ATAC 8000	11	140.4	2.4	1.7	140	136 - 145
Vital Diagnostics Envoy 500	17	137.9	2.2	1.6	138	133 - 142
All Chemistry Instruments	187	138.9	1.9	1.4	139	134 - 143
ISE Undiluted						
Alfa Wassermann ACE/NexCT/Alera	65	142.1	1.4	1.0	142	138 - 147
Horiba ABX Pentra 400	12	142.1	1.3	0.9	142	138 - 147
All Chemistry Instruments	119	141.2	2.3	1.6	142	137 - 146
VITROS						
VITROS 250,350,500,700,750,950	44	145.3	1.7	1.2	145	141 - 150
All Chemistry Instruments	51	145.5	1.7	1.2	146	141 - 150

TIBC – Calculated (µg/dL)

Specimen CH-1							Specimen CH-2					
<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 Calculated TIBC (TRF x CF)	24	112.4	12.8	11.4	113	73 - 151	31	230.1	46.5	20.2	252	90 - 370
All Chemistry Instruments	24	112.4	12.8	11.4	113	73 - 151	31	230.1	46.5	20.2	252	90 - 370
Specimen CH-3							Specimen CH-4					
All Method Calculated TIBC (TRF x CF)	30	319.7	48.8	15.3	341	173 - 467	30	207.9	40.3	19.4	224	86 - 329
All Chemistry Instruments	30	319.7	48.8	15.3	341	173 - 467	30	207.9	40.3	19.4	224	86 - 329
Specimen CH-5												
All Method Calculated TIBC (TRF x CF)	30	264.1	43.8	16.6	282	132 - 396						
All Chemistry Instruments	30	264.1	43.8	16.6	282	132 - 396						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method Siemens (Dade) Healthcare Siemens Dimension/AR/ES/RxL/Xpand/EXL VITROS	47	105.4	35.7	33.8	102	0 - 213	47	229.5	63.4	27.6	204	39 - 420
All Chemistry Instruments	23	77.2	10.7	13.9	75	45 - 110	23	200.5	7.7	3.8	200	177 - 224
	11	145.3	21.4	14.7	150	81 - 210	11	299.0	80.0	26.8	319	58 - 540
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method Siemens (Dade) Healthcare Siemens Dimension/AR/ES/RxL/Xpand/EXL VITROS	48	312.7	96.1	30.7	294	24 - 602	49	201.1	52.4	26.0	182	43 - 359
All Chemistry Instruments	24	286.7	11.9	4.1	284	251 - 323	24	173.0	10.3	6.0	173	142 - 204
	11	413.0	133.0	32.2	476	13 - 813	12	253.4	65.2	25.7	280	57 - 449
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method Siemens (Dade) Healthcare Siemens Dimension/AR/ES/RxL/Xpand/EXL VITROS	48	257.4	72.7	28.2	236	39 - 476						
All Chemistry Instruments	24	228.0	10.6	4.7	228	196 - 260						
	11	340.3	92.1	27.1	366	64 - 617						

UIBC – Direct (µg/dL)[illegible]

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	410	31.2	6.7	21.4	29	24 - 38	402	217.5	16.1	7.4	220	173 - 261
All Roche Integra/c111/c501												
Reagents	47	26.5	1.2	4.4	26	21 - 32	47	219.4	7.2	3.3	220	175 - 264
All Vital Diagnostics Reagents	37	27.9	1.4	4.9	28	22 - 34	38	229.7	13.6	5.9	233	183 - 276
Abaxis Piccolo												
Abaxis Piccolo - waived	18	29.2	3.0	10.3	29	23 - 36	18	196.3	4.5	2.3	197	157 - 236
Abaxis Piccolo	15	30.1	2.7	8.9	30	24 - 37	15	197.8	4.7	2.4	199	158 - 238
All Chemistry Instruments	33	29.6	2.9	9.7	29	23 - 36	33	197.0	4.6	2.3	197	157 - 237
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	68	28.6	2.5	8.7	29	22 - 35	68	202.5	7.9	3.9	204	162 - 243
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	28.5	0.7	2.5	29	22 - 35	17	215.8	4.2	1.9	218	172 - 259
All Chemistry Instruments	23	28.1	1.2	4.1	28	22 - 34	22	214.6	4.8	2.2	217	171 - 258
Carolina Liquid Chemistries												
All Chemistry Instruments	10	27.0	1.2	4.3	27	21 - 33	10	219.5	8.6	3.9	222	175 - 264
Cholestech LDX												
Cholestech LDX - waived	8	-	-	-	30	23 - 36	11	322.3	52.8	16.4	322	257 - 387
All Chemistry Instruments	10	29.3	5.5	18.8	28	23 - 36	12	320.9	50.5	15.7	314	256 - 386
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	29.1	1.6	5.5	29	23 - 35	17	239.5	7.7	3.2	239	191 - 288
Olympus												
Olympus AU	25	24.1	1.4	5.8	24	19 - 29	25	197.9	6.6	3.3	198	158 - 238
Roche Integra												
Roche Integra	40	26.5	1.2	4.4	26	21 - 32	40	219.7	7.5	3.4	221	175 - 264
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	39.1	1.8	4.5	39	31 - 47	60	230.5	4.9	2.1	231	184 - 277
Vital Diagnostics												
Vital Diagnostics ATAC 8000	17	27.8	1.7	6.0	28	22 - 34	17	222.8	13.3	6.0	218	178 - 268
Vital Diagnostics Envoy 500	20	28.1	1.1	3.8	28	22 - 34	20	237.4	6.5	2.7	237	189 - 285
All Chemistry Instruments	37	27.9	1.4	4.9	28	22 - 34	37	230.6	12.5	5.4	233	184 - 277
VITROS												
VITROS 250,350,500,700,750,950	43	44.2	3.1	7.0	45	35 - 53	42	228.4	4.7	2.1	229	182 - 275
All Chemistry Instruments	49	44.0	3.3	7.4	45	35 - 53	49	229.1	5.2	2.3	229	183 - 275

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	393	102.2	8.6	8.4	102	81 - 123	389	257.9	18.7	7.2	261	206 - 310
All Roche Integra/c111/c501												
Reagents	47	99.3	3.4	3.4	99	79 - 120	47	261.1	10.1	3.9	261	208 - 314
All Vital Diagnostics Reagents	38	106.0	6.2	5.9	107	84 - 128	37	272.9	16.4	6.0	278	218 - 328
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	94	76 - 115	7	-	-	-	234	186 - 280
Abaxis Piccolo	15	95.1	4.2	4.4	94	76 - 115	15	233.9	6.1	2.6	233	187 - 281
All Chemistry Instruments	22	95.0	4.2	4.5	94	76 - 115	22	233.0	6.7	2.9	234	186 - 280
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	69	94.6	4.9	5.1	95	75 - 114	67	240.8	8.4	3.5	240	192 - 289
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	100.1	2.3	2.3	100	80 - 121	17	255.4	6.8	2.7	258	204 - 307
All Chemistry Instruments	22	99.7	2.5	2.5	100	79 - 120	22	254.2	6.9	2.7	256	203 - 306
Carolina Liquid Chemistries												
All Chemistry Instruments	10	100.9	3.5	3.4	102	80 - 122	10	259.7	11.9	4.6	262	207 - 312
Cholestech LDX												
Cholestech LDX - waived	1	-	-	-	120	81 - 123	1	-	-	-	366	292 - 440
All Chemistry Instruments	3	-	-	-	112	87 - 131	3	-	-	-	366	268 - 403
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	111.4	5.3	4.8	110	89 - 134	17	285.3	11.1	3.9	281	228 - 343
Olympus												
Olympus AU	25	91.2	3.3	3.6	91	72 - 110	24	233.4	6.1	2.6	234	186 - 281
Roche Integra												
Roche Integra	40	99.1	3.4	3.4	99	79 - 119	40	261.1	10.5	4.0	261	208 - 314
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	113.7	2.7	2.4	114	90 - 137	61	270.1	6.0	2.2	270	216 - 325
Vital Diagnostics												
Vital Diagnostics ATAC 8000	17	102.2	5.3	5.2	102	81 - 123	16	266.9	19.3	7.2	264	213 - 321
Vital Diagnostics Envoy 500	20	109.9	3.6	3.3	110	87 - 132	20	279.5	8.3	3.0	280	223 - 336
All Chemistry Instruments	37	106.4	5.9	5.5	107	85 - 128	36	273.9	15.4	5.6	278	219 - 329
VITROS												
VITROS 250,350,500,700,750,950	43	106.9	3.3	3.1	107	85 - 129	42	271.3	5.8	2.1	271	217 - 326
All Chemistry Instruments	49	107.1	3.2	3.0	107	85 - 129	49	272.0	6.1	2.3	272	217 - 327

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

<u><i>Instrument/Reagent</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	391	180.1	13.1	7.3	182	144 - 217
All Roche Integra/c111/c501						
Reagents	47	179.4	5.9	3.3	179	143 - 216
All Vital Diagnostics Reagents	38	189.7	10.2	5.4	191	151 - 228
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	162	130 - 197
Abaxis Piccolo	15	163.9	4.2	2.6	163	131 - 197
All Chemistry Instruments	22	163.7	5.0	3.0	163	130 - 197
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	69	167.6	7.2	4.3	168	134 - 202
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	17	177.5	4.4	2.5	178	141 - 213
All Chemistry Instruments	23	176.2	5.1	2.9	177	140 - 212
Carolina Liquid Chemistries						
All Chemistry Instruments	10	182.1	7.1	3.9	184	145 - 219
Cholestech LDX						
Cholestech LDX - waived	1	-	-	-	240	192 - 288
All Chemistry Instruments	3	-	-	-	236	175 - 264
Horiba ABX Pentra						
Horiba ABX Pentra 400	18	199.1	10.7	5.4	197	159 - 239
Olympus						
Olympus AU	24	161.7	4.4	2.7	162	129 - 195
Roche Integra						
Roche Integra	41	180.0	6.7	3.7	180	143 - 216
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	61	192.2	4.1	2.1	192	153 - 231
Vital Diagnostics						
Vital Diagnostics ATAC 8000	17	184.0	10.1	5.5	183	147 - 221
Vital Diagnostics Envoy 500	20	195.5	5.9	3.0	195	156 - 235
All Chemistry Instruments	37	190.2	9.8	5.2	191	152 - 229
VITROS						
VITROS 250,350,500,700,750,950	43	188.8	4.5	2.4	189	151 - 227
All Chemistry Instruments	50	189.2	4.7	2.5	189	151 - 227

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	395	36.6	5.4	14.6	36	25 - 48	397	252.8	32.9	13.0	256	176 - 329
All Roche Integra/c111/c501												
Reagents	47	33.9	1.3	3.7	34	23 - 45	47	247.9	7.6	3.1	247	173 - 323
All Vital Diagnostics Reagents	38	38.9	5.4	14.0	39	27 - 51	38	253.9	18.8	7.4	253	177 - 331
Abaxis Piccolo												
Abaxis Piccolo - waived	18	29.4	3.4	11.5	29	20 - 39	18	208.5	10.8	5.2	206	145 - 272
Abaxis Piccolo	15	29.5	4.9	16.8	30	20 - 39	15	209.8	7.8	3.7	211	146 - 273
All Chemistry Instruments	33	29.5	4.1	13.9	29	20 - 39	33	209.1	9.4	4.5	210	146 - 272
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	66	38.5	2.1	5.4	39	26 - 51	68	278.9	12.4	4.4	281	195 - 363
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	34.1	2.6	7.6	34	23 - 45	17	251.1	9.3	3.7	252	175 - 327
All Chemistry Instruments	22	33.9	2.4	7.2	34	23 - 45	21	249.0	11.0	4.4	251	174 - 324
Carolina Liquid Chemistries												
All Chemistry Instruments	12	32.3	3.8	11.8	33	22 - 42	12	239.8	23.3	9.7	243	167 - 312
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	41.8	2.8	6.8	41	29 - 55	17	301.4	19.0	6.3	296	210 - 392
Olympus												
Olympus AU	25	34.5	1.8	5.2	34	24 - 45	25	251.2	16.3	6.5	252	175 - 327
Roche Integra												
Roche Integra	40	34.0	1.2	3.5	34	23 - 45	40	248.4	7.5	3.0	247	173 - 323
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	44.4	6.0	13.6	44	31 - 58	60	280.8	14.4	5.1	281	196 - 366
Vital Diagnostics												
Vital Diagnostics ATAC 8000	17	41.8	5.5	13.2	41	29 - 55	17	260.8	16.7	6.4	258	182 - 339
Vital Diagnostics Envoy 500	20	36.2	4.0	11.0	37	25 - 48	20	250.2	17.5	7.0	251	175 - 326
All Chemistry Instruments	37	38.8	5.5	14.1	39	27 - 51	37	255.1	17.7	7.0	253	178 - 332
VITROS												
VITROS 250,350,500,700,750,950	43	33.9	2.5	7.3	34	23 - 45	43	199.6	11.2	5.6	200	139 - 260
All Chemistry Instruments	50	33.9	2.4	7.0	34	23 - 45	50	200.3	11.2	5.6	200	140 - 261

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	386	102.3	10.6	10.4	102	71 - 134	387	299.1	40.7	13.6	305	209 - 389
All Roche Integra/c111/c501												
Reagents	47	96.1	2.7	2.8	96	67 - 125	46	295.3	9.1	3.1	295	206 - 384
All Vital Diagnostics Reagents	38	102.2	8.3	8.1	103	71 - 133	38	298.7	22.3	7.5	296	209 - 389
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	83	57 - 108	7	-	-	-	253	175 - 326
Abaxis Piccolo	15	81.8	5.8	7.1	80	57 - 107	15	250.3	11.0	4.4	252	175 - 326
All Chemistry Instruments	22	82.5	5.3	6.4	82	57 - 108	22	250.2	10.5	4.2	253	175 - 326
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	69	108.1	5.7	5.2	109	75 - 141	67	331.0	14.5	4.4	331	231 - 431
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	98.4	4.1	4.1	99	68 - 128	17	295.4	12.2	4.1	299	206 - 384
All Chemistry Instruments	22	97.5	4.6	4.7	98	68 - 127	22	293.3	13.0	4.4	298	205 - 382
Carolina Liquid Chemistries												
All Chemistry Instruments	12	94.1	9.6	10.2	93	65 - 123	12	281.9	29.5	10.5	281	197 - 367
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	116.2	7.0	6.1	113	81 - 152	17	358.1	22.6	6.3	349	250 - 466
Olympus												
Olympus AU	25	99.0	5.8	5.9	99	69 - 129	25	297.7	21.4	7.2	298	208 - 388
Roche Integra												
Roche Integra	40	96.3	2.5	2.6	96	67 - 126	39	295.7	9.5	3.2	295	206 - 385
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	61	114.4	9.3	8.1	113	80 - 149	60	330.7	15.9	4.8	329	231 - 430
Vital Diagnostics												
Vital Diagnostics ATAC 8000	17	106.5	7.8	7.4	107	74 - 139	17	307.2	16.9	5.5	307	215 - 400
Vital Diagnostics Envoy 500	20	98.5	7.1	7.2	98	68 - 129	20	294.0	22.6	7.7	292	205 - 383
All Chemistry Instruments	37	102.2	8.4	8.2	101	71 - 133	37	300.0	21.0	7.0	296	210 - 391
VITROS												
VITROS 250,350,500,700,750,950	43	96.7	5.8	6.0	98	67 - 126	43	225.5	12.9	5.7	225	157 - 294
All Chemistry Instruments	50	97.3	5.7	5.9	99	68 - 127	50	226.4	12.7	5.6	226	158 - 295

Alkaline Phosphatase (IU/L)

Specimen CH-5						
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	388	206.2	24.5	11.9	208	144 - 269
All Roche Integra/c111/c501						
Reagents	47	199.2	5.7	2.9	199	139 - 259
All Vital Diagnostics Reagents	38	207.9	16.6	8.0	204	145 - 271
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	167	116 - 218
Abaxis Piccolo	15	167.3	6.1	3.7	168	117 - 218
All Chemistry Instruments	22	167.1	6.0	3.6	168	116 - 218
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	69	224.6	9.6	4.3	225	157 - 292
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	17	201.4	8.0	4.0	201	140 - 262
All Chemistry Instruments	22	200.0	8.7	4.4	200	140 - 260
Carolina Liquid Chemistries						
All Chemistry Instruments	12	193.8	20.5	10.6	189	135 - 252
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	242.2	14.6	6.0	237	169 - 315
Olympus						
Olympus AU	25	202.2	11.3	5.6	202	141 - 263
Roche Integra						
Roche Integra	40	199.4	5.6	2.8	200	139 - 260
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	60	227.0	11.8	5.2	226	158 - 296
Vital Diagnostics						
Vital Diagnostics ATAC 8000	17	216.9	14.8	6.8	216	151 - 282
Vital Diagnostics Envoy 500	20	201.2	14.7	7.3	198	140 - 262
All Chemistry Instruments	37	208.4	16.6	8.0	205	145 - 271
VITROS						
VITROS 250,350,500,700,750,950	43	170.5	10.8	6.3	170	119 - 222
All Chemistry Instruments	50	171.2	10.5	6.1	172	119 - 223

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	413	27.9	4.3	15.5	28	22 - 34	400	216.8	24.6	11.4	209	173 - 261
All Roche Integra/c111/c501												
Reagents	47	24.2	1.4	5.9	24	19 - 30	47	209.5	9.3	4.4	209	167 - 252
All Vital Diagnostics Reagents	37	25.2	2.5	9.8	25	20 - 31	38	209.1	14.2	6.8	209	167 - 251
Abaxis Piccolo												
Abaxis Piccolo - waived	18	28.4	1.7	5.9	29	22 - 35	18	204.9	8.7	4.3	205	163 - 246
Abaxis Piccolo	15	29.0	1.1	3.9	29	23 - 35	15	203.6	5.4	2.7	206	162 - 245
All Chemistry Instruments	33	28.7	1.5	5.1	29	22 - 35	33	204.3	7.4	3.6	205	163 - 246
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	69	27.9	1.8	6.6	28	22 - 34	69	202.8	7.5	3.7	203	162 - 244
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	24.7	1.2	4.9	25	19 - 30	17	198.9	5.2	2.6	199	159 - 239
All Chemistry Instruments	23	24.5	1.4	5.9	24	19 - 30	23	197.0	7.6	3.8	197	157 - 237
Carolina Liquid Chemistries												
All Chemistry Instruments	10	26.3	1.6	6.2	26	21 - 32	10	218.3	14.2	6.5	221	174 - 262
Cholestech LDX												
Cholestech LDX - waived	11	33.6	3.6	10.7	34	26 - 41	10	400.0	0.0	0.0	400	320 - 480
All Chemistry Instruments	13	32.8	4.0	12.0	34	26 - 40	11	400.0	0.0	0.0	400	320 - 480
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	24.7	2.2	9.0	25	19 - 30	18	206.0	9.6	4.7	206	164 - 248
Olympus												
Olympus AU	26	21.7	1.4	6.5	22	17 - 27	26	184.3	10.3	5.6	185	147 - 222
Roche Integra												
Roche Integra	40	24.2	1.5	6.3	24	19 - 29	40	210.0	9.8	4.7	210	167 - 252
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	33.5	2.0	6.0	34	26 - 41	60	247.4	5.6	2.3	247	197 - 297
Vital Diagnostics												
Vital Diagnostics ATAC 8000	17	26.2	3.1	11.6	25	20 - 32	17	200.5	13.6	6.8	199	160 - 241
Vital Diagnostics Envoy 500	20	24.8	2.6	10.4	25	19 - 30	20	216.4	10.7	4.9	216	173 - 260
All Chemistry Instruments	37	25.4	2.9	11.3	25	20 - 31	37	209.1	14.4	6.9	210	167 - 251
VITROS												
VITROS 250,350,500,700,750,950	43	32.7	1.4	4.2	33	26 - 40	43	257.3	7.6	3.0	257	205 - 309
All Chemistry Instruments	50	32.8	1.3	4.1	33	26 - 40	50	257.5	7.9	3.1	257	206 - 310

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	390	99.6	15.3	15.3	94	79 - 120	388	257.4	27.1	10.5	249	205 - 309
All Roche Integra/c111/c501												
Reagents	47	91.7	4.8	5.3	92	73 - 111	46	250.8	11.0	4.4	250	200 - 301
All Vital Diagnostics Reagents	38	93.7	7.1	7.5	94	74 - 113	38	246.4	15.8	6.4	249	197 - 296
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	92	74 - 113	7	-	-	-	240	192 - 289
Abaxis Piccolo	15	93.9	2.5	2.7	94	75 - 113	15	241.9	5.5	2.3	243	193 - 291
All Chemistry Instruments	22	93.5	4.1	4.3	94	74 - 113	22	240.8	7.6	3.2	240	192 - 289
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	69	90.3	4.3	4.8	91	72 - 109	69	244.1	8.5	3.5	246	195 - 293
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	17	89.5	2.6	3.0	90	71 - 108	17	236.5	6.4	2.7	238	189 - 284
All Chemistry Instruments	23	88.4	3.9	4.4	89	70 - 107	22	236.0	6.9	2.9	238	188 - 284
Carolina Liquid Chemistries												
All Chemistry Instruments	10	96.4	6.4	6.7	98	77 - 116	10	261.6	17.8	6.8	265	209 - 314
Cholestech LDX												
Cholestech LDX - waived	1	-	-	-	184	147 - 221	1	-	-	-	400	320 - 480
All Chemistry Instruments	3	-	-	-	181	134 - 202	3	-	-	-	400	317 - 477
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	92.1	4.7	5.0	92	73 - 111	18	246.6	11.7	4.7	248	197 - 296
Olympus												
Olympus AU	26	82.3	5.2	6.4	83	65 - 99	25	218.6	9.6	4.4	220	174 - 263
Roche Integra												
Roche Integra	40	91.7	5.1	5.6	92	73 - 111	39	251.1	11.6	4.6	251	200 - 302
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	121.2	3.2	2.6	121	96 - 146	61	288.8	6.2	2.2	289	231 - 347
Vital Diagnostics												
Vital Diagnostics ATAC 8000	17	89.8	7.0	7.8	89	71 - 108	17	235.0	12.3	5.2	230	188 - 282
Vital Diagnostics Envoy 500	20	97.2	5.5	5.6	98	77 - 117	20	255.8	12.0	4.7	258	204 - 307
All Chemistry Instruments	37	93.8	7.1	7.6	94	75 - 113	37	246.2	15.9	6.5	248	196 - 296
VITROS												
VITROS 250,350,500,700,750,950	43	122.0	4.5	3.7	121	97 - 147	43	301.2	10.2	3.4	301	240 - 362
All Chemistry Instruments	50	122.6	4.7	3.8	122	98 - 148	49	301.5	9.8	3.3	301	241 - 362

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

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	389	178.7	22.5	12.6	171	142 - 215
All Roche Integra/c111/c501						
Reagents	47	169.7	7.7	4.5	170	135 - 204
All Vital Diagnostics Reagents	38	170.6	13.6	8.0	171	136 - 205
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	166	133 - 201
Abaxis Piccolo	15	167.7	4.6	2.7	168	134 - 202
All Chemistry Instruments	22	166.7	6.9	4.2	168	133 - 201
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	68	166.7	6.1	3.6	168	133 - 201
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	17	163.0	4.4	2.7	164	130 - 196
All Chemistry Instruments	22	162.3	5.0	3.1	163	129 - 195
Carolina Liquid Chemistries						
All Chemistry Instruments	10	179.0	11.7	6.5	181	143 - 215
Cholestech LDX						
Cholestech LDX - waived	1	-	-	-	400	320 - 480
All Chemistry Instruments	3	-	-	-	400	290 - 436
Horiba ABX Pentra						
Horiba ABX Pentra 400	18	168.4	8.0	4.7	170	134 - 203
Olympus						
Olympus AU	26	150.2	8.9	5.9	151	120 - 181
Roche Integra						
Roche Integra	40	169.9	8.2	4.8	170	135 - 204
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	61	206.7	5.2	2.5	207	165 - 249
Vital Diagnostics						
Vital Diagnostics ATAC 8000	17	162.5	14.5	8.9	159	129 - 195
Vital Diagnostics Envoy 500	20	177.6	8.5	4.8	179	142 - 214
All Chemistry Instruments	37	170.6	13.8	8.1	172	136 - 205
VITROS						
VITROS 250,350,500,700,750,950	43	214.8	6.8	3.2	215	171 - 258
All Chemistry Instruments	50	215.1	6.8	3.2	215	172 - 259

Creatine Kinase (IU/L)

<u>Instrument/Reagent</u>	<u>Labs</u>	Specimen CH-1					Specimen CH-2					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	182	49.8	6.5	13.1	50	34 - 65	182	199.7	19.1	9.6	202	139 - 260
All Roche Integra/c111/c501												
Reagents	23	56.0	3.9	7.0	58	39 - 73	24	219.9	14.3	6.5	222	153 - 286
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	25	52.8	3.4	6.4	53	36 - 69	26	198.0	9.2	4.6	199	138 - 258
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	10	58.4	2.7	4.6	58	40 - 76	10	225.1	8.5	3.8	225	157 - 293
All Chemistry Instruments	14	56.8	3.9	6.9	57	39 - 74	14	220.6	13.2	6.0	223	154 - 287
Olympus												
Olympus AU	14	48.3	2.6	5.3	49	33 - 63	14	193.6	9.2	4.7	193	135 - 252
Roche Integra												
Roche Integra	22	56.0	4.0	7.1	58	39 - 73	23	219.6	14.5	6.6	221	153 - 286
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	15	49.8	1.8	3.6	49	34 - 65	15	206.1	6.6	3.2	208	144 - 268
Siemens Healthcare CKI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	49.4	1.4	2.8	49	34 - 65	17	206.1	7.3	3.6	206	144 - 268
Vital Diagnostics												
Vital Diagnostics ATAC 8000	10	49.0	4.4	9.0	49	34 - 64	10	192.3	18.6	9.7	195	134 - 250
All Chemistry Instruments	18	49.6	3.7	7.5	49	34 - 65	18	193.6	15.1	7.8	194	135 - 252
VITROS												
VITROS 250,350,500,700,750,950	20	38.3	6.3	16.4	39	26 - 50	20	169.0	18.1	10.7	171	118 - 220
All Chemistry Instruments	23	38.9	4.4	11.4	38	27 - 51	24	168.8	17.1	10.1	171	118 - 220

Creatine Kinase (IU/L)

<u>Instrument/Reagent</u>	<u>Labs</u>	Specimen CH-3					Specimen CH-4					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	184	330.5	46.7	14.1	342	231 - 430	182	156.5	13.8	8.8	157	109 - 204
All Roche Integra/c111/c501												
Reagents	24	370.6	22.1	6.0	378	259 - 482	24	170.9	11.5	6.7	174	119 - 223
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	26	328.8	14.1	4.3	327	230 - 428	26	157.3	7.7	4.9	157	110 - 205
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	10	382.3	10.5	2.7	383	267 - 497	10	174.9	7.8	4.5	176	122 - 228
All Chemistry Instruments	14	375.9	18.2	4.8	381	263 - 489	14	171.6	10.3	6.0	173	120 - 224
Olympus												
Olympus AU	14	330.2	13.6	4.1	331	231 - 430	14	150.6	7.4	4.9	152	105 - 196
Roche Integra												
Roche Integra	23	369.5	21.9	5.9	376	258 - 481	23	170.7	11.7	6.9	173	119 - 222
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	15	349.5	9.8	2.8	351	244 - 455	15	159.5	5.4	3.4	159	111 - 208
Siemens Healthcare CKI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	351.6	8.6	2.4	350	246 - 458	17	159.9	4.3	2.7	160	111 - 208
Vital Diagnostics												
Vital Diagnostics ATAC 8000	10	331.4	34.0	10.2	336	231 - 431	10	146.4	13.8	9.4	149	102 - 191
All Chemistry Instruments	18	334.1	27.5	8.2	337	233 - 435	18	148.2	11.6	7.8	149	103 - 193
VITROS												
VITROS 250,350,500,700,750,950	20	229.8	23.4	10.2	233	160 - 299	20	140.8	16.8	11.9	144	98 - 184
All Chemistry Instruments	24	229.3	21.9	9.6	231	160 - 299	24	141.3	15.5	11.0	144	98 - 184

Creatine Kinase (IU/L)

<u>Instrument/Reagent</u>	<u>Labs</u>	Specimen CH-5				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	182	244.8	26.5	10.8	249	171 - 319
All Roche Integra/c111/c501						
Reagents	24	270.7	16.6	6.1	273	189 - 352
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	26	244.3	10.1	4.1	246	171 - 318
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	10	279.4	8.6	3.1	278	195 - 364
All Chemistry Instruments	14	272.5	17.6	6.5	277	190 - 355
Olympus						
Olympus AU	14	240.1	9.4	3.9	241	168 - 313
Roche Integra						
Roche Integra	23	270.0	16.6	6.2	272	188 - 351
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	15	254.7	9.0	3.5	256	178 - 332
Siemens Healthcare CKI						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	17	255.6	7.2	2.8	255	178 - 333
Vital Diagnostics						
Vital Diagnostics ATAC 8000	10	237.8	24.3	10.2	243	166 - 310
All Chemistry Instruments	18	239.7	19.4	8.1	241	167 - 312
VITROS						
VITROS 250,350,500,700,750,950	20	194.0	20.6	10.6	196	135 - 253
All Chemistry Instruments	24	193.9	19.5	10.1	195	135 - 253

GGT (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	23.7	5.8	24.5	22	6 - 42	101	133.9	29.8	22.2	125	44 - 224
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	14	19.4	2.8	14.4	20	10 - 28	14	98.6	5.1	5.2	98	83 - 114
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	16	31.0	1.8	5.9	31	25 - 37	16	158.9	2.4	1.5	158	151 - 167
VITROS												
All Chemistry Instruments	13	32.7	1.6	4.9	33	27 - 38	13	190.8	5.5	2.9	192	174 - 208

Amylase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	115	47.9	9.1	19.1	49	33 - 63	115	121.7	28.1	23.1	127	85 - 159
All Roche Integra/c111/c501												
Reagents	18	47.5	1.0	2.1	47	33 - 62	18	124.5	1.8	1.4	124	87 - 162
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	10	51.4	2.5	4.8	51	35 - 67	10	132.8	6.5	4.9	132	92 - 173
Olympus												
Olympus AU	12	42.8	2.1	4.9	43	29 - 56	12	112.4	7.3	6.5	113	78 - 147
Roche Integra												
Roche Integra	17	47.5	1.0	2.1	47	33 - 62	17	124.4	1.8	1.5	124	87 - 162
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	18	56.3	1.3	2.3	56	39 - 74	18	148.7	3.2	2.2	149	104 - 194
VITROS												
VITROS 250,350,500,700,750,950	14	30.0	0.0	0.0	30	21 - 39	15	62.9	4.1	6.5	63	44 - 82
All Chemistry Instruments	17	30.0	0.0	0.0	30	21 - 39	18	64.0	4.6	7.2	65	44 - 84
<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	112	78.4	15.7	20.1	83	54 - 102	112	137.1	33.3	24.3	144	95 - 179
All Roche Integra/c111/c501												
Reagents	18	81.2	1.5	1.9	81	56 - 106	18	137.4	2.1	1.5	137	96 - 179
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	10	84.7	5.9	7.0	83	59 - 111	10	147.7	7.8	5.3	148	103 - 193
Olympus												
Olympus AU	12	67.8	3.6	5.3	67	47 - 89	12	128.3	6.2	4.9	129	89 - 167
Roche Integra												
Roche Integra	17	81.0	1.4	1.7	81	56 - 106	17	137.2	1.9	1.4	137	96 - 179
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	18	86.7	1.6	1.9	86	60 - 113	18	169.4	4.0	2.3	169	118 - 221
VITROS												
VITROS 250,350,500,700,750,950	15	47.7	4.9	10.2	48	33 - 63	15	68.7	4.8	7.0	70	48 - 90
All Chemistry Instruments	18	48.6	5.2	10.7	49	34 - 64	18	69.7	5.0	7.2	70	48 - 91

Amylase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	112	108.2	24.6	22.8	113	75 - 141
All Roche Integra/c111/c501						
Reagents	18	109.8	1.8	1.6	109	76 - 143
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	10	116.1	5.0	4.3	117	81 - 151
Olympus						
Olympus AU	12	98.3	5.6	5.7	99	68 - 128
Roche Integra						
Roche Integra	17	109.7	1.8	1.6	109	76 - 143
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	18	128.1	2.9	2.3	127	89 - 167
VITROS						
VITROS 250,350,500,700,750,950	15	57.5	3.7	6.4	57	40 - 75
All Chemistry Instruments	18	58.9	4.7	8.0	59	41 - 77

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	<u>Labs</u>	Specimen CH-1					Specimen CH-2					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	105	110.6	13.5	12.2	117	88 - 133	103	553.1	77.1	13.9	590	442 - 664
All Roche Integra/c111/c501												
Reagents	19	123.2	3.0	2.4	123	98 - 148	18	619.1	12.4	2.0	619	495 - 743
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	13	90.8	4.7	5.2	92	72 - 110	13	434.5	21.2	4.9	439	347 - 522
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	10	102.5	3.6	3.5	102	82 - 123	10	514.9	13.4	2.6	517	411 - 618
All Chemistry Instruments	13	100.8	5.6	5.5	102	80 - 122	13	508.5	21.4	4.2	516	406 - 611
Roche Integra												
Roche Integra	14	124.1	2.4	1.9	124	99 - 149	13	620.8	12.9	2.1	621	496 - 745
Siemens Healthcare LDI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	12	120.7	4.2	3.5	121	96 - 145	12	632.7	18.6	2.9	629	506 - 760
VITROS												
VITROS 250,350,500,700,750,950	11	414.3	15.8	3.8	420	331 - 498	11	2129.6	76.2	3.6	2122	1703 - 2556
All Chemistry Instruments	13	413.9	14.5	3.5	417	331 - 497	13	2129.8	76.3	3.6	2122	1703 - 2556
<u>Instrument/Reagent</u>	<u>Labs</u>	Specimen CH-3					Specimen CH-4					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	105	219.2	27.6	12.6	236	175 - 264	103	664.7	96.5	14.5	715	531 - 798
All Roche Integra/c111/c501												
Reagents	19	241.7	4.6	1.9	242	193 - 291	20	745.5	31.0	4.2	737	596 - 895
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	13	175.8	9.9	5.6	179	140 - 211	12	520.8	24.6	4.7	527	416 - 625
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	10	204.0	7.3	3.6	206	163 - 245	10	610.4	22.2	3.6	617	488 - 733
All Chemistry Instruments	13	200.9	10.7	5.3	204	160 - 242	13	604.1	27.7	4.6	615	483 - 725
Roche Integra												
Roche Integra	14	242.2	4.5	1.9	242	193 - 291	15	750.6	33.0	4.4	739	600 - 901
Siemens Healthcare LDI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	12	244.1	4.7	1.9	245	195 - 293	12	754.4	17.2	2.3	757	603 - 906
VITROS												
VITROS 250,350,500,700,750,950	11	803.6	21.7	2.7	805	642 - 965	11	2533.6	285.5	11.3	2625	2026 - 3041
All Chemistry Instruments	13	799.2	24.3	3.0	796	639 - 959	13	2548.8	263.8	10.4	2625	2039 - 3059

Lactate Dehydrogenase (IU/L)

Specimen CH-5

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	104	447.7	60.5	13.5	485	358 - 538
All Roche Integra/c111/c501 Reagents	19	493.9	9.5	1.9	493	395 - 593
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	13	352.6	17.3	4.9	354	282 - 424
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	10	416.3	13.2	3.2	419	333 - 500
All Chemistry Instruments	13	411.2	18.5	4.5	415	328 - 494
Roche Integra						
Roche Integra	14	494.9	9.7	2.0	495	395 - 594
Siemens Healthcare LDI						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	12	504.5	12.0	2.4	502	403 - 606
VITROS						
VITROS 250,350,500,700,750,950	11	1656.1	41.9	2.5	1653	1324 - 1988
All Chemistry Instruments	13	1658.2	40.7	2.5	1653	1326 - 1990

Lipase (IU/L)

Specimen CH-1

Specimen CH-2

<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	42	9.4	3.0	32.4	10	0 - 19	42	36.8	5.4	14.7	40	20 - 53
All Roche Integra/c111/c501 Reagents	14	9.5	0.7	6.8	10	7 - 12	14	37.5	2.0	5.3	37	31 - 44
Roche Integra												
Roche Integra	13	9.5	0.7	6.9	10	7 - 12	13	37.6	2.0	5.4	37	31 - 44
Siemens (Dade) Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	10	40.8	2.1	5.1	41	34 - 48	10	148.8	3.9	2.6	150	137 - 161
VITROS												
VITROS 250,350,500,700,750,950	10	54.0	3.7	6.9	54	42 - 66	10	512.2	34.0	6.6	505	410 - 615
All Chemistry Instruments	13	54.5	3.5	6.3	54	44 - 65	13	509.5	30.7	6.0	505	417 - 602

Cortisol (mcg/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	4.45	0.58	13.0	4.3	3.3 - 5.6	20	15.50	1.32	8.5	15.5	11.6 - 19.4
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	22.92	1.90	8.3	23.2	17.1 - 28.7	15	13.20	1.51	11.5	12.9	9.9 - 16.5
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	18.56	2.33	12.5	18.1	13.9 - 23.2						

T₃ Uptake (percent)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	39	47.59	4.13	8.7	47.2	35.1 - 60.0	39	43.98	2.62	5.9	44.0	36.1 - 51.9
Beckman ACCESS / 2 / Dxl	10	52.29	1.68	3.2	52.5	47.2 - 57.4	10	46.62	2.14	4.6	47.0	40.2 - 53.1
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	44.17	2.45	5.5	44.0	36.8 - 51.6	13	43.54	1.98	4.6	44.0	37.5 - 49.5
TOSOH ST AIA	12	48.02	2.29	4.8	48.3	41.1 - 54.9	12	42.21	1.87	4.4	42.0	36.6 - 47.9
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	39	45.20	2.97	6.6	45.2	36.2 - 54.2	39	43.65	3.24	7.4	43.0	33.9 - 53.4
Beckman ACCESS / 2 / Dxl	10	45.99	3.06	6.6	46.0	36.8 - 55.2	10	47.55	2.92	6.1	47.8	38.7 - 56.4
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	45.46	2.26	5.0	46.0	38.6 - 52.3	13	42.82	1.88	4.4	43.0	37.1 - 48.5
TOSOH ST AIA	12	43.90	1.85	4.2	44.0	38.3 - 49.5	12	41.60	2.34	5.6	41.4	34.5 - 48.7
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	39	44.98	3.07	6.8	44.6	35.7 - 54.2						
Beckman ACCESS / 2 / Dxl	10	47.92	2.91	6.1	48.3	39.1 - 56.7						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	44.48	2.18	4.9	44.2	37.9 - 51.1						
TOSOH ST AIA	12	42.99	2.30	5.4	43.2	36.0 - 49.9						

T Uptake (uptake units)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	0.76	Not graded	4	-	-	-	0.60	Not graded
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	0.37	Not graded	4	-	-	-	0.70	Not graded
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	0.50	Not graded	4	-	-	-	0.50	Not graded

Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	61	0.67	0.22	32.9	0.7	0.0 - 1.4	62	1.52	0.38	24.8	1.6	0.3 - 2.7
All TOSOH Instruments	11	4.76	1.15	24.1	4.5	1.3 - 8.3	10	7.57	1.40	18.4	8.0	3.3 - 11.8
Beckman ACCESS / 2 / Dxl	17	0.74	0.06	8.2	0.7	0.5 - 1.0	17	1.62	0.11	6.7	1.6	1.2 - 2.0
bioMerieux Vidas, Mini Vidas	10	0.74	0.34	46.5	0.7	0.0 - 1.8	10	1.94	0.20	10.1	2.0	1.3 - 2.6
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	62	2.53	0.58	23.0	2.7	0.7 - 4.3	61	1.11	0.26	23.0	1.2	0.3 - 1.9
All TOSOH Instruments	8	-	-	-	8.0	4.7 - 11.7	11	6.70	1.46	21.8	6.8	2.3 - 11.1
Beckman ACCESS / 2 / Dxl	17	2.85	0.24	8.4	2.8	2.1 - 3.6	17	1.19	0.11	9.4	1.2	0.8 - 1.6
bioMerieux Vidas, Mini Vidas	10	3.06	0.28	9.3	3.0	2.2 - 4.0	10	1.30	0.11	8.1	1.3	0.9 - 1.7
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	62	1.84	0.41	22.4	2.0	0.6 - 3.1						
All TOSOH Instruments	8	-	-	-	8.0	3.6 - 12.5						
Beckman ACCESS / 2 / Dxl	17	2.03	0.16	7.7	2.0	1.5 - 2.6						
bioMerieux Vidas, Mini Vidas	10	2.07	0.07	3.3	2.1	1.8 - 2.3						

Free T₃ (pg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	29	1.87	0.74	39.7	2.2	0.0 - 4.2	29	3.64	0.85	23.3	4.1	1.1 - 6.2
All DPC Immulite Instruments	12	1.10	0.13	11.6	1.0	0.7 - 1.5	12	2.74	0.16	5.9	2.7	2.2 - 3.3
All TOSOH Instruments	10	3.34	0.36	10.8	3.4	2.2 - 4.5	10	7.90	1.50	19.0	8.5	3.4 - 12.4

Thyroxine (mcg/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	82	3.11	0.51	16.4	3.1	2.1 - 4.2	82	9.92	1.02	10.3	9.9	7.9 - 12.0
All Abbott Instruments	10	2.98	0.30	10.0	3.0	1.9 - 4.0	10	8.93	0.32	3.6	9.0	7.1 - 10.8
All TOSOH Instruments	18	3.00	0.11	3.8	3.0	2.0 - 4.0	19	10.28	0.61	6.0	10.3	8.2 - 12.4
Abbott AxSYM	10	2.98	0.30	10.0	3.0	1.9 - 4.0	10	8.93	0.32	3.6	9.0	7.1 - 10.8
Beckman ACCESS / 2 / Dxl Siemens	16	3.65	0.21	5.8	3.7	2.6 - 4.7	15	11.17	0.39	3.5	11.1	8.9 - 13.5
Dimension/AR/ES/RxL/Xpand/EXL	17	3.06	0.47	15.2	2.9	2.0 - 4.1	17	10.14	0.66	6.5	10.0	8.1 - 12.2
TOSOH ST AIA	15	2.99	0.12	4.1	3.0	1.9 - 4.0	16	10.26	0.64	6.2	10.2	8.2 - 12.4

<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	82	16.82	1.87	11.1	17.0	13.4 - 20.2	82	7.40	0.83	11.3	7.4	5.9 - 8.9
All Abbott Instruments	10	15.53	0.54	3.5	15.6	12.4 - 18.7	10	6.51	0.24	3.7	6.6	5.2 - 7.9
All TOSOH Instruments	19	17.58	1.59	9.0	17.6	14.0 - 21.2	19	7.63	0.33	4.3	7.6	6.1 - 9.2
Abbott AxSYM	10	15.53	0.54	3.5	15.6	12.4 - 18.7	10	6.51	0.24	3.7	6.6	5.2 - 7.9
Beckman ACCESS / 2 / Dxl Siemens	16	17.04	1.12	6.5	17.2	13.6 - 20.5	16	8.57	0.40	4.7	8.6	6.8 - 10.3
Dimension/AR/ES/RxL/Xpand/EXL	17	17.99	1.26	7.0	18.0	14.3 - 21.6	17	7.32	0.60	8.2	7.0	5.8 - 8.8
TOSOH ST AIA	16	17.63	1.73	9.8	17.6	14.1 - 21.2	16	7.59	0.35	4.6	7.6	6.0 - 9.2

<u>Method</u>	Specimen CH-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	82	12.51	1.24	9.9	12.7	10.0 - 15.1
All Abbott Instruments	10	11.32	0.40	3.5	11.4	9.0 - 13.6
All TOSOH Instruments	19	13.02	0.69	5.3	13.1	10.4 - 15.7
Abbott AxSYM	10	11.32	0.40	3.5	11.4	9.0 - 13.6
Beckman ACCESS / 2 / Dxl Siemens	16	13.30	1.01	7.6	13.3	10.6 - 16.0
Dimension/AR/ES/RxL/Xpand/EXL	17	13.04	0.69	5.3	12.8	10.4 - 15.7
TOSOH ST AIA	16	12.92	0.69	5.3	12.9	10.3 - 15.6

Free Thyroxine (ng/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	246	1.07	0.32	29.9	1.1	0.1 - 2.1	246	2.79	0.90	32.2	3.1	0.0 - 5.5
All Abbott Instruments	20	0.82	0.06	7.5	0.8	0.6 - 1.1	20	1.54	0.10	6.5	1.5	1.2 - 1.9
All DPC Immulite Instruments	22	1.43	0.08	5.9	1.4	1.1 - 1.7	21	3.18	0.13	4.2	3.2	2.7 - 3.6
All Roche Elecsys/cobas e 601 Instruments	12	1.27	0.09	7.0	1.3	1.0 - 1.6	11	3.35	0.17	5.1	3.3	2.8 - 3.9
All TOSOH Instruments	45	1.35	0.12	9.0	1.4	0.9 - 1.8	46	3.68	0.28	7.7	3.7	2.8 - 4.6
Abbott Architect	11	1.08	0.09	8.1	1.1	0.8 - 1.4	11	3.83	0.43	11.2	3.8	2.5 - 5.2
Abbott AxSYM	20	0.82	0.06	7.5	0.8	0.6 - 1.1	20	1.54	0.10	6.5	1.5	1.2 - 1.9
Beckman ACCESS / 2 / Dxl	43	1.12	0.07	6.0	1.1	0.9 - 1.4	43	2.41	0.14	5.6	2.4	2.0 - 2.9
bioMerieux Vidas, Mini Vidas	43	0.68	0.06	9.6	0.7	0.4 - 0.9	41	1.90	0.16	8.2	1.9	1.4 - 2.4
DPC Immulite/1000	15	1.43	0.09	6.3	1.4	1.1 - 1.8	14	3.14	0.14	4.5	3.2	2.7 - 3.6
Roche Elecsys 1010/2010	11	1.27	0.09	7.1	1.3	1.0 - 1.6	11	3.56	0.70	19.5	3.3	1.4 - 5.7
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	30	1.17	0.12	9.9	1.2	0.8 - 1.6	30	3.50	0.25	7.3	3.5	2.7 - 4.3
TOSOH AIA	11	1.28	0.13	9.8	1.3	0.9 - 1.7	11	3.50	0.25	7.1	3.5	2.7 - 4.3
TOSOH ST AIA	33	1.38	0.10	7.0	1.4	1.0 - 1.7	35	3.73	0.27	7.3	3.7	2.9 - 4.6

<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	249	4.40	1.26	28.6	4.2	0.6 - 8.2	247	2.13	0.67	31.5	2.4	0.1 - 4.2
All Abbott Instruments	20	2.85	0.21	7.2	2.8	2.2 - 3.5	20	1.16	0.08	6.6	1.2	0.9 - 1.4
All DPC Immulite Instruments	22	4.40	0.28	6.4	4.4	3.5 - 5.3	21	2.62	0.09	3.6	2.6	2.3 - 3.0
All Roche Elecsys/cobas e 601 Instruments	11	5.95	0.29	4.8	6.0	5.0 - 6.9	12	2.64	0.33	12.3	2.5	1.6 - 3.7
All TOSOH Instruments	45	5.92	0.41	6.9	5.9	4.6 - 7.2	46	2.73	0.19	7.0	2.8	2.1 - 3.4
Abbott Architect	11	5.69	0.43	7.6	5.8	4.3 - 7.0	11	2.71	0.17	6.3	2.7	2.1 - 3.3
Abbott AxSYM	20	2.85	0.21	7.2	2.8	2.2 - 3.5	20	1.16	0.08	6.6	1.2	0.9 - 1.4
Beckman ACCESS / 2 / Dxl	43	3.53	0.19	5.3	3.5	2.9 - 4.2	42	1.89	0.08	4.3	1.9	1.6 - 2.2
bioMerieux Vidas, Mini Vidas	42	3.35	0.31	9.1	3.3	2.4 - 4.3	42	1.41	0.11	8.0	1.4	1.0 - 1.8
DPC Immulite/1000	15	4.41	0.32	7.2	4.4	3.4 - 5.4	15	2.61	0.15	5.6	2.6	2.1 - 3.1
Roche Elecsys 1010/2010	11	6.43	1.64	25.5	6.0	1.5 - 11.4	11	2.65	0.34	12.8	2.5	1.6 - 3.7
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	30	4.95	0.48	9.6	4.8	3.5 - 6.4	30	2.68	0.25	9.3	2.7	1.9 - 3.5
TOSOH AIA	11	5.75	0.40	7.0	5.7	4.5 - 7.0	11	2.65	0.19	7.0	2.7	2.0 - 3.3
TOSOH ST AIA	34	5.98	0.40	6.7	6.0	4.7 - 7.2	35	2.76	0.19	6.8	2.8	2.1 - 3.4

Free Thyroxine (ng/dL)

Specimen CH-5

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	246	3.38	1.05	30.9	3.5	0.2 - 6.6
All Abbott Instruments	20	1.98	0.14	7.3	2.0	1.5 - 2.5
All DPC Immulite Instruments	22	3.69	0.23	6.3	3.7	2.9 - 4.4
All Roche Elecsys/cobas e 601 Instruments	11	4.15	0.20	4.7	4.1	3.5 - 4.8
All TOSOH Instruments	46	4.49	0.31	6.9	4.5	3.5 - 5.5
Abbott Architect	11	4.77	0.67	14.1	4.6	2.7 - 6.8
Abbott AxSYM	20	1.98	0.14	7.3	2.0	1.5 - 2.5
Beckman ACCESS / 2 / Dxl	43	2.87	0.16	5.5	2.9	2.3 - 3.4
bioMerieux Vidas, Mini Vidas	43	2.38	0.21	9.0	2.4	1.7 - 3.1
DPC Immulite/1000	15	3.71	0.27	7.3	3.8	2.8 - 4.6
Roche Elecsys 1010/2010	11	4.47	1.06	23.6	4.2	1.3 - 7.7
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	30	4.11	0.25	6.2	4.1	3.3 - 4.9
TOSOH AIA	11	4.27	0.28	6.5	4.3	3.4 - 5.2
TOSOH ST AIA	35	4.56	0.29	6.3	4.6	3.6 - 5.5

TSH (μU/mL)

Specimen CH-1

Specimen CH-2

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	348	0.34	0.06	18.8	0.3	0.1 - 0.6	352	4.96	0.59	11.8	5.0	3.2 - 6.8
All Abbott Instruments	43	0.30	0.03	11.6	0.3	0.1 - 0.5	43	4.67	0.49	10.5	4.6	3.2 - 6.2
All DPC Immulite Instruments	24	0.32	0.05	15.2	0.3	0.1 - 0.5	24	4.55	0.35	7.7	4.5	3.5 - 5.6
All Roche Elecsys/cobas e 601 Instruments	15	0.42	0.04	9.9	0.4	0.2 - 0.6	14	5.21	0.20	3.8	5.2	4.6 - 5.9
All TOSOH Instruments	70	0.39	0.04	9.5	0.4	0.2 - 0.6	68	5.51	0.31	5.6	5.5	4.5 - 6.5
Abbott Architect	11	0.30	0.00	0.0	0.3	0.3 - 0.3	11	4.55	0.22	4.7	4.6	3.9 - 5.3
Abbott AxSYM	32	0.30	0.04	13.5	0.3	0.1 - 0.5	32	4.72	0.55	11.7	4.7	3.0 - 6.4
Beckman ACCESS / 2 / Dxl	54	0.31	0.03	10.2	0.3	0.2 - 0.5	55	4.40	0.23	5.1	4.4	3.7 - 5.1
bioMerieux Vidas, Mini Vidas	71	0.33	0.05	13.8	0.3	0.1 - 0.5	70	5.30	0.29	5.5	5.3	4.4 - 6.2
DiaSorin	10	0.54	0.05	9.6	0.5	0.3 - 0.7	10	5.01	0.54	10.8	5.2	3.3 - 6.7
DPC Immulite/1000	16	0.31	0.04	14.4	0.3	0.1 - 0.5	16	4.44	0.27	6.2	4.4	3.6 - 5.3
Roche Elecsys 1010/2010	14	0.42	0.04	10.1	0.4	0.2 - 0.6	13	5.21	0.21	4.0	5.2	4.5 - 5.9
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	47	0.30	0.05	17.8	0.3	0.1 - 0.5	47	4.49	0.38	8.4	4.5	3.3 - 5.7
TOSOH AIA	23	0.39	0.03	8.9	0.4	0.2 - 0.5	23	5.40	0.38	7.1	5.5	4.2 - 6.6
TOSOH ST AIA	47	0.40	0.04	9.8	0.4	0.2 - 0.6	46	5.53	0.30	5.5	5.5	4.6 - 6.5

TSH (μU/mL)

Specimen CH-3							Specimen CH-4					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	351	10.51	1.14	10.8	10.6	7.0 - 14.0	352	3.10	0.39	12.6	3.2	1.9 - 4.3
All Abbott Instruments	43	9.91	1.07	10.8	9.8	6.6 - 13.2	42	2.93	0.32	11.1	2.9	1.9 - 4.0
All DPC Immulite Instruments	24	9.74	0.69	7.0	9.8	7.6 - 11.8	24	2.67	0.30	11.3	2.7	1.7 - 3.6
All Roche Elecsys/cobas e 601 Instruments	14	10.19	0.45	4.5	10.2	8.8 - 11.6	14	3.37	0.13	3.8	3.4	2.9 - 3.8
All TOSOH Instruments	69	11.53	0.51	4.4	11.5	10.0 - 13.1	69	3.44	0.19	5.6	3.4	2.8 - 4.1
Abbott Architect	11	9.35	0.44	4.7	9.4	8.0 - 10.7	11	2.81	0.14	5.1	2.8	2.3 - 3.3
Abbott AxSYM	32	10.10	1.16	11.5	10.2	6.6 - 13.6	31	2.98	0.36	12.1	3.0	1.8 - 4.1
Beckman ACCESS / 2 / Dxl	55	9.17	0.68	7.4	9.1	7.1 - 11.3	54	2.69	0.13	4.9	2.7	2.2 - 3.1
bioMerieux Vidas, Mini Vidas	71	11.21	0.66	5.9	11.1	9.2 - 13.2	71	3.29	0.17	5.1	3.3	2.7 - 3.8
DiaSorin	10	10.26	0.40	3.9	10.2	9.0 - 11.5	10	3.50	0.19	5.4	3.5	2.9 - 4.1
DPC Immulite/1000	16	9.49	0.63	6.7	9.4	7.5 - 11.4	16	2.57	0.28	11.1	2.5	1.7 - 3.5
Roche Elecsys 1010/2010	13	10.19	0.47	4.6	10.1	8.7 - 11.7	13	3.37	0.13	3.9	3.4	2.9 - 3.8
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	47	10.07	0.70	6.9	10.0	7.9 - 12.2	47	2.79	0.18	6.5	2.8	2.2 - 3.4
TOSOH AIA	23	11.61	0.58	5.0	11.6	9.8 - 13.4	23	3.40	0.21	6.1	3.4	2.7 - 4.1
TOSOH ST AIA	46	11.49	0.47	4.1	11.5	10.0 - 12.9	46	3.47	0.18	5.3	3.4	2.9 - 4.1
Specimen CH-5												
All Method	350	6.87	0.76	11.0	6.9	4.5 - 9.2						
All Abbott Instruments	42	6.32	0.66	10.5	6.3	4.3 - 8.4						
All DPC Immulite Instruments	23	6.35	0.55	8.7	6.3	4.6 - 8.1						
All Roche Elecsys/cobas e 601 Instruments	14	6.94	0.25	3.6	7.0	6.1 - 7.7						
All TOSOH Instruments	70	7.55	0.39	5.1	7.5	6.3 - 8.8						
Abbott Architect	11	6.14	0.23	3.8	6.2	5.4 - 6.9						
Abbott AxSYM	31	6.39	0.75	11.8	6.3	4.1 - 8.7						
Beckman ACCESS / 2 / Dxl	55	6.07	0.31	5.1	6.1	5.1 - 7.0						
bioMerieux Vidas, Mini Vidas	71	7.34	0.43	5.9	7.3	6.0 - 8.7						
DiaSorin	10	7.09	0.37	5.3	7.1	5.9 - 8.3						
DPC Immulite/1000	15	6.17	0.48	7.8	6.2	4.7 - 7.7						
Roche Elecsys 1010/2010	13	6.94	0.26	3.7	6.9	6.1 - 7.8						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	47	6.32	0.44	6.9	6.3	5.0 - 7.7						
TOSOH AIA	23	7.45	0.35	4.8	7.4	6.3 - 8.6						
TOSOH ST AIA	47	7.59	0.40	5.2	7.6	6.4 - 8.8						

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-1		Specimen HCG-2	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	154	-	-	154
Beckman Coulter ICON 25 hCG	14	-	-	14
Cardinal Health SP Brand combo	5	-	-	5
CONSULT diagnostics hCG Combo	16	-	-	16
Genzyme OSOM hCG Combo Test	4	-	-	4
Henry Schein One Step + Combo	6	-	-	6
Immunostics Detector Combi	1	-	-	1
Inverness Clearview hCG Combo II	4	-	-	4
Inverness Signify hCG combo	1	-	-	1
LifeSign Status hCG	1	-	-	1
McKesson hCG Combo Cassette	7	-	-	7
PEP (Lab Supply) HCG Combo Test	1	-	-	1
Polymedco Poly stat hCG	2	-	-	2
PSS Select hCG Combo	6	-	-	6
Quidel QuickVue + One-Step	11	-	-	11
Quidel QuickVue One-Step Combo	64	-	-	64
Stanbio QUPID Plus	3	-	-	3
Sure-Vue hCG - 25mIU	1	-	-	1
Sure-Vue hCG-STAT (10mIU)	2	-	-	2

Serum hCG – Qualitative

	Specimen HCG-3		Specimen HCG-4	
ALL METHODS	154	-	-	154
Beckman Coulter ICON 25 hCG	14	-	-	14
Cardinal Health SP Brand combo	5	-	-	5
CONSULT diagnostics hCG Combo	16	-	-	16
Genzyme OSOM hCG Combo Test	4	-	-	4
Henry Schein One Step + Combo	6	-	-	6
Immunostics Detector Combi	1	-	-	1
Inverness Clearview hCG Combo II	4	-	-	4
Inverness Signify hCG combo	1	-	-	1
LifeSign Status hCG	1	-	-	1
McKesson hCG Combo Cassette	7	-	-	7
PEP (Lab Supply) HCG Combo Test	1	-	-	1
Polymedco Poly stat hCG	2	-	-	2
PSS Select hCG Combo	6	-	-	6
Quidel QuickVue + One-Step	11	-	-	11
Quidel QuickVue One-Step Combo	64	-	-	64
Stanbio QUPID Plus	3	-	-	3
Sure-Vue hCG - 25mIU	1	-	-	1
Sure-Vue hCG-STAT (10mIU)	2	-	-	2

Serum hCG – Qualitative

Specimen HCG-5

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	154	-
Beckman Coulter ICON 25 hCG	14	-
Cardinal Health SP Brand combo	5	-
CONSULT diagnostics hCG Combo	16	-
Genzyme OSOM hCG Combo Test	4	-
Henry Schein One Step + Combo	6	-
Immunostics Detector Combi	1	-
Inverness Clearview hCG Combo II	4	-
Inverness Signify hCG combo	1	-
LifeSign Status hCG	1	-
McKesson hCG Combo Cassette	7	-
PEP (Lab Supply) HCG Combo Test	1	-
Polymedco Poly stat hCG	2	-
PSS Select hCG Combo	6	-
Quidel QuickVue + One-Step	11	-
Quidel QuickVue One-Step Combo	64	-
Stanbio QUPID Plus	3	-
Sure-Vue hCG - 25mIU	1	-
Sure-Vue hCG-STAT (10mIU)	2	-

Serum hCG – Quantitative

Specimen HCG-1

Specimen HCG-2

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	34	53.3	8.7	16.4	54	27 - 80	33	1.3	0.8	63.0	1	0 - 4

Specimen HCG-3

Specimen HCG-4

All Method	32	3374.5	475.7	14.1	3271	1947 - 4802	33	1.2	0.8	68.4	1	0 - 4
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Specimen HCG-5

All Method	33	441.5	57.3	13.0	427	269 - 614
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Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	423	116.9	4.9	4.2	117	105 - 129	427	213.5	7.5	3.5	213	192 - 235
All Roche Integra/c111/c501												
Reagents	41	117.7	2.7	2.3	118	105 - 130	41	211.7	4.3	2.1	212	190 - 233
All Vital Diagnostics Reagents	33	115.5	5.1	4.4	116	103 - 128	33	214.3	6.4	3.0	214	192 - 236
Abaxis Piccolo												
All Chemistry Instruments	13	120.6	5.0	4.2	121	108 - 133	13	212.2	3.5	1.7	212	191 - 234
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	55	119.3	3.6	3.0	119	107 - 132	55	211.4	5.5	2.6	211	190 - 233
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	16	117.8	2.9	2.5	119	105 - 130	16	216.1	5.9	2.7	218	194 - 238
All Chemistry Instruments	24	117.5	2.9	2.4	118	105 - 130	23	215.3	6.2	2.9	218	193 - 237
Cholestech LDX												
Cholestech LDX - waived	54	115.4	4.2	3.7	115	103 - 127	54	218.6	7.2	3.3	220	196 - 241
All Chemistry Instruments	62	115.3	5.3	4.6	115	103 - 127	60	218.4	7.2	3.3	220	196 - 241
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	119.1	5.4	4.5	119	107 - 132	17	214.6	10.6	5.0	213	193 - 237
Olympus												
Olympus AU	23	114.8	1.4	1.2	115	103 - 127	23	207.6	2.5	1.2	207	186 - 229
Pointe Scientific												
Spectrophotometer	13	118.4	1.0	0.9	118	106 - 131	13	211.7	3.9	1.9	211	190 - 233
All Chemistry Instruments	17	118.6	1.9	1.6	118	106 - 131	18	214.1	7.2	3.4	213	192 - 236
Roche Integra												
Roche Integra	35	117.2	2.1	1.8	117	105 - 129	36	211.3	4.3	2.0	211	190 - 233
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	54	118.4	3.2	2.7	118	106 - 131	53	208.3	4.5	2.1	208	187 - 230
All Chemistry Instruments	54	118.4	3.2	2.7	118	106 - 131	54	208.6	4.7	2.3	209	187 - 230
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	115.4	7.8	6.7	118	103 - 127	16	216.0	7.0	3.3	217	194 - 238
Vital Diagnostics Envoy 500	17	114.3	5.0	4.4	115	102 - 126	16	212.9	5.5	2.6	213	191 - 235
All Chemistry Instruments	32	115.5	5.2	4.5	116	103 - 128	32	214.4	6.4	3.0	215	192 - 236
VITROS												
VITROS 250,350,500,700,750,950	36	110.6	3.5	3.2	111	99 - 122	37	218.2	6.5	3.0	220	196 - 241
All Chemistry Instruments	49	111.1	3.8	3.4	111	99 - 123	50	218.6	6.8	3.1	220	196 - 241

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	369	251.6	8.2	3.3	251	226 - 277	375	201.0	7.3	3.6	201	180 - 222
All Roche Integra/c111/c501												
Reagents	41	249.1	5.3	2.1	249	224 - 275	40	199.9	4.1	2.0	200	179 - 220
All Vital Diagnostics Reagents	34	249.7	10.3	4.1	250	224 - 275	34	201.9	9.6	4.8	204	181 - 223
Abaxis Piccolo												
All Chemistry Instruments	8	-	-	-	255	230 - 283	8	-	-	-	202	180 - 221
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	55	248.5	6.6	2.7	248	223 - 274	54	199.7	5.2	2.6	199	179 - 220
Beckman - cartridge												
Beckman Synchron LX/Pro/DxC	16	253.4	9.2	3.6	256	228 - 279	16	201.2	7.8	3.9	204	181 - 222
All Chemistry Instruments	24	253.5	8.1	3.2	255	228 - 279	24	201.3	7.4	3.7	204	181 - 222
Cholestech LDX												
Cholestech LDX - waived	17	262.9	12.8	4.9	262	236 - 290	17	200.9	10.1	5.0	202	180 - 221
All Chemistry Instruments	20	262.6	13.5	5.1	262	236 - 289	20	200.2	10.0	5.0	202	180 - 221
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	250.9	12.0	4.8	248	225 - 276	17	203.2	9.3	4.6	203	182 - 224
Olympus												
Olympus AU	23	245.6	4.0	1.6	246	221 - 271	23	195.4	3.1	1.6	196	175 - 215
Pointe Scientific												
Spectrophotometer	13	249.0	4.6	1.8	248	224 - 274	13	199.2	3.0	1.5	199	179 - 220
All Chemistry Instruments	18	252.1	8.6	3.4	249	226 - 278	18	201.4	6.5	3.2	200	181 - 222
Roche Integra												
Roche Integra	36	248.3	5.0	2.0	249	223 - 274	35	199.2	3.9	1.9	199	179 - 220
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	52	249.2	4.3	1.7	249	224 - 275	53	195.4	3.2	1.7	195	175 - 215
All Chemistry Instruments	54	249.7	4.9	2.0	249	224 - 275	53	195.4	3.2	1.7	195	175 - 215
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	250.6	10.4	4.2	252	225 - 276	16	203.7	9.1	4.5	206	183 - 225
Vital Diagnostics Envoy 500	17	249.1	10.8	4.3	249	224 - 275	17	201.5	9.2	4.6	202	181 - 222
All Chemistry Instruments	33	249.8	10.5	4.2	250	224 - 275	31	204.2	6.5	3.2	205	183 - 225
VITROS												
VITROS 250,350,500,700,750,950	37	255.8	8.6	3.3	256	230 - 282	37	207.6	4.7	2.3	206	186 - 229
All Chemistry Instruments	50	256.7	9.7	3.8	257	231 - 283	49	208.2	5.0	2.4	209	187 - 230

Cholesterol, Total (mg/dL)

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	375	227.0	8.1	3.6	226	204 - 250
All Roche Integra/c111/c501						
Reagents	41	225.1	5.1	2.3	225	202 - 248
All Vital Diagnostics Reagents	33	229.1	7.0	3.1	231	206 - 253
Abaxis Piccolo						
All Chemistry Instruments	8	-	-	-	225	202 - 249
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	55	225.1	6.2	2.8	225	202 - 248
Beckman - cartridge						
Beckman Synchron LX/Pro/DxC	16	228.4	7.6	3.3	231	205 - 252
All Chemistry Instruments	24	228.4	8.2	3.6	231	205 - 252
Cholestech LDX						
Cholestech LDX - waived	17	233.3	10.9	4.7	234	209 - 257
All Chemistry Instruments	20	232.6	10.6	4.5	233	209 - 256
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	227.4	10.4	4.6	226	204 - 251
Olympus						
Olympus AU	23	220.6	2.6	1.2	220	198 - 243
Pointe Scientific						
Spectrophotometer	13	223.5	4.1	1.8	224	201 - 246
All Chemistry Instruments	18	226.1	7.9	3.5	225	203 - 249
Roche Integra						
Roche Integra	36	224.5	4.8	2.2	225	202 - 247
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	52	222.0	5.0	2.2	222	199 - 245
All Chemistry Instruments	53	222.1	5.0	2.3	222	199 - 245
Vital Diagnostics						
Vital Diagnostics ATAC 8000	16	232.6	5.8	2.5	234	209 - 256
Vital Diagnostics Envoy 500	16	226.1	6.7	3.0	226	203 - 249
All Chemistry Instruments	32	229.3	7.0	3.1	231	206 - 253
VITROS						
VITROS 250,350,500,700,750,950	36	233.9	6.4	2.7	233	210 - 258
All Chemistry Instruments	49	234.3	7.0	3.0	233	210 - 258

LDL Cholesterol - Calculated (mg/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	304	41.4	11.0	26.5	41	8 - 75	253	89.4	15.9	17.8	87	41 - 138
Calculated-Trig/5												
Abaxis Piccolo - waived	10	52.1	8.3	16.0	53	27 - 78	1	-	-	-	76	41 - 138
Alfa Wassermann ACE/NexCT/Alera	42	52.2	4.4	8.5	52	38 - 66	42	104.5	7.8	7.5	104	81 - 128
Cholestech LDX - waived	48	39.8	5.9	14.7	40	22 - 58	20	97.2	9.7	10.0	97	68 - 127
Horiba ABX Pentra 400	11	58.2	7.6	13.1	60	35 - 82	11	110.3	11.3	10.2	110	76 - 145
Olympus AU	16	46.0	6.6	14.4	46	26 - 66	16	88.2	11.9	13.5	86	52 - 124
Roche Integra	23	33.0	3.8	11.5	32	21 - 45	23	80.5	5.4	6.7	80	64 - 97
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	38.7	5.4	14.0	40	22 - 55	25	79.0	7.1	8.9	80	57 - 101
Vital Diagnostics ATAC 8000	10	44.2	12.5	28.3	45	6 - 82	10	92.8	14.3	15.4	97	50 - 136
Vital Diagnostics Envoy 500	13	40.3	7.5	18.5	42	17 - 63	13	83.0	16.8	20.3	87	32 - 134
VITROS 250,350,500,700,750,950	35	32.1	5.1	15.9	32	16 - 48	34	81.3	10.3	12.6	84	50 - 113
All Chemistry Instruments	293	41.4	10.9	26.4	40	8 - 75	242	89.4	16.0	17.9	87	41 - 138
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	230	100.0	15.2	15.2	103	54 - 146	244	85.1	16.9	19.9	83	34 - 136
Calculated-Trig/5												
Alfa Wassermann ACE/NexCT/Alera	41	111.3	8.1	7.3	111	86 - 136	41	102.1	7.1	7.0	101	80 - 124
Cholestech LDX - waived	3	-	-	-	118	51 - 148	14	86.6	10.7	12.4	86	54 - 119
Horiba ABX Pentra 400	11	111.7	13.7	12.2	111	70 - 153	11	109.1	11.6	10.7	112	74 - 144
Olympus AU	16	90.0	15.1	16.8	88	44 - 136	16	88.0	12.9	14.7	87	49 - 127
Roche Integra	23	101.1	6.7	6.6	101	80 - 122	22	73.2	5.3	7.2	73	57 - 90
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	24	104.2	6.1	5.8	105	85 - 123	25	70.8	6.3	8.9	72	52 - 90
Vital Diagnostics ATAC 8000	10	95.1	17.0	17.9	95	44 - 147	10	90.5	13.0	14.4	93	51 - 130
Vital Diagnostics Envoy 500	13	88.7	16.4	18.5	88	39 - 139	13	81.2	13.2	16.3	85	41 - 121
VITROS 250,350,500,700,750,950	33	94.3	13.2	14.0	96	54 - 134	33	77.9	8.6	11.0	81	52 - 104
All Chemistry Instruments	223	99.4	15.9	16.0	102	51 - 148	234	85.0	16.8	19.8	83	34 - 136

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-5						
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	226	93.4	14.3	15.3	92	50 - 137
Calculated-Trig/5						
Alfa Wassermann ACE/NexCT/Alera	41	106.2	8.8	8.3	106	79 - 133
Cholestech LDX - waived	3	-	-	-	102	50 - 137
Horiba ABX Pentra 400	11	109.5	13.6	12.5	112	68 - 151
Olympus AU	16	89.9	13.3	14.8	89	49 - 130
Roche Integra	23	87.9	5.4	6.2	87	71 - 105
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	23	86.8	5.6	6.4	87	70 - 104
Vital Diagnostics ATAC 8000	10	92.7	13.7	14.8	95	51 - 134
Vital Diagnostics Envoy 500	12	85.8	13.3	15.5	87	46 - 126
VITROS 250,350,500,700,750,950	33	89.8	8.8	9.8	90	63 - 117
All Chemistry Instruments	217	93.3	14.3	15.3	92	50 - 137

LDL Cholesterol - Direct (mg/dL)

Specimen CH-1							Specimen CH-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	123	28.8	6.5	22.5	30	9 - 49	124	59.7	12.3	20.5	60	22 - 97
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE/NexCT/Alera	10	28.9	3.8	13.3	28	17 - 41	10	58.8	5.4	9.2	59	42 - 75
Roche LDL Direct												
Roche Integra	13	37.3	1.7	4.4	38	32 - 43	14	79.1	5.6	7.1	80	62 - 97
All Chemistry Instruments	14	37.3	1.6	4.3	38	32 - 43	15	79.2	5.4	6.9	80	62 - 96
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	24	32.8	3.2	9.7	32	23 - 43	24	64.5	4.8	7.4	64	50 - 79
All Chemistry Instruments	25	32.8	3.1	9.6	32	23 - 43	25	64.8	4.9	7.6	64	50 - 80

LDL Cholesterol - Direct (mg/dL)

Specimen CH-3							Specimen CH-4					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	123	80.7	11.5	14.3	80	46 - 116	123	52.8	12.2	23.0	52	16 - 90
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE/NexCT/Alera	10	79.2	5.3	6.8	78	63 - 96	10	52.8	9.5	18.0	51	24 - 82
Roche LDL Direct												
Roche Integra	14	95.6	4.8	5.0	97	81 - 110	13	71.8	5.2	7.2	73	56 - 88
All Chemistry Instruments	15	95.7	4.7	4.9	97	81 - 110	14	72.0	5.0	7.0	74	56 - 88
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	24	85.0	5.5	6.4	84	68 - 102	24	57.0	5.1	8.9	57	41 - 73
All Chemistry Instruments	25	85.5	5.9	6.9	84	67 - 104	25	57.3	5.2	9.1	57	41 - 73
Specimen CH-5												
All Method	122	67.3	11.7	17.4	67	32 - 103						
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE/NexCT/Alera	10	65.6	6.5	9.9	64	46 - 86						
Roche LDL Direct												
Roche Integra	14	84.5	4.6	5.4	86	70 - 99						
All Chemistry Instruments	15	84.6	4.5	5.3	86	71 - 98						
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	23	71.1	5.3	7.4	71	55 - 87						
All Chemistry Instruments	24	71.5	5.5	7.7	71	55 - 88						

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	413	55.9	9.5	17.0	57	39 - 73	405	97.2	14.4	14.8	100	68 - 127
All Dex-Sulfate 50,000 MW Methods	80	57.3	5.8	10.2	57	40 - 75	77	97.6	6.7	6.9	100	68 - 127
All Direct Methods	229	55.0	10.9	19.8	53	38 - 72	221	95.9	16.9	17.6	98	67 - 125
All PEG Methods	10	51.2	11.2	21.9	48	35 - 67	10	84.2	4.8	5.7	83	58 - 110
All Phosphotungstic Acid Methods	30	55.3	8.4	15.2	59	38 - 72	30	94.7	10.4	11.0	97	66 - 124
Abaxis Piccolo												
All Chemistry Instruments	13	47.8	6.4	13.4	50	33 - 63	6	-	-	-	100	71 - 132
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE/NexCT/Alera	14	47.6	3.4	7.1	48	33 - 62	14	80.1	5.2	6.5	80	56 - 105
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	37	46.9	2.7	5.8	46	32 - 61	37	80.1	4.4	5.4	80	56 - 105
Beckman HDLD												
Beckman Synchron LX/Pro/DxC	14	74.1	5.0	6.8	75	51 - 97	14	129.9	6.9	5.3	131	90 - 169
All Chemistry Instruments	19	71.8	6.1	8.5	73	50 - 94	19	127.2	7.8	6.1	127	89 - 166
Cholestech LDX												
Cholestech LDX - waived	50	57.0	4.6	8.0	57	39 - 75	49	98.1	3.7	3.8	100	68 - 128
All Chemistry Instruments	57	57.5	4.7	8.2	57	40 - 75	56	98.3	3.6	3.6	100	68 - 128
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	40.6	3.4	8.4	40	28 - 53	14	76.1	6.9	9.0	76	53 - 99
Olympus Direct HDL / LDL												
Olympus AU	14	47.5	4.6	9.7	49	33 - 62	14	86.6	9.4	10.9	90	60 - 113
Roche HDL Direct												
Roche Integra	24	65.5	2.7	4.2	65	45 - 86	24	105.3	3.7	3.5	105	73 - 137
All Chemistry Instruments	28	65.2	2.6	4.0	65	45 - 85	28	105.0	3.5	3.3	104	73 - 137
Siemens Automated HDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	35	62.1	2.1	3.4	62	43 - 81	36	102.2	3.1	3.1	102	71 - 133
All Chemistry Instruments	36	62.1	2.1	3.3	62	43 - 81	37	102.2	3.1	3.1	102	71 - 133
Vital Diagnostics Direct												
Vital Diagnostics ATAC 8000	10	53.2	9.4	17.6	50	37 - 70	10	97.5	16.4	16.8	93	68 - 127
Vital Diagnostics Envoy 500	11	56.2	6.6	11.7	56	39 - 74	11	103.1	13.2	12.9	104	72 - 135
All Chemistry Instruments	21	54.8	8.0	14.6	52	38 - 72	21	100.4	14.7	14.7	100	70 - 131
VITROS												
All Chemistry Instruments	12	58.3	4.1	6.9	58	40 - 76	12	100.4	8.9	8.9	103	70 - 131
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	30	58.4	3.0	5.2	58	40 - 76	30	107.1	8.1	7.6	106	74 - 140
All Chemistry Instruments	35	58.2	2.9	4.9	58	40 - 76	33	105.5	5.6	5.3	106	73 - 138

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	355	105.0	13.6	13.0	101	73 - 137	362	95.1	16.6	17.4	99	66 - 124
All Dex-Sulfate 50,000 MW Methods	44	107.2	14.7	13.7	100	75 - 140	44	97.0	12.5	12.9	99	67 - 127
All Direct Methods	215	104.2	14.8	14.2	101	72 - 136	219	93.2	18.1	19.4	94	65 - 122
All PEG Methods	10	99.2	3.5	3.5	100	69 - 129	10	84.4	12.9	15.3	81	59 - 110
All Phosphotungstic Acid Methods	29	101.3	9.1	8.9	100	70 - 132	30	93.4	12.7	13.6	98	65 - 122
Abaxis Piccolo												
All Chemistry Instruments	2	-	-	-	100	70 - 130	4	-	-	-	104	72 - 136
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE/NexCT/Alera	14	91.9	6.1	6.7	92	64 - 120	14	76.0	5.0	6.6	76	53 - 99
Alfa Wassermann - New												
Alfa Wassermann ACE/NexCT/Alera	37	93.5	5.4	5.8	93	65 - 122	37	75.9	5.0	6.5	76	53 - 99
Beckman HDLD												
Beckman Synchron LX/Pro/DxC	13	132.7	5.9	4.5	134	92 - 173	14	124.9	6.6	5.3	124	87 - 163
All Chemistry Instruments	18	131.7	5.7	4.3	132	92 - 172	19	122.7	7.4	6.1	123	85 - 160
Cholestech LDX												
Cholestech LDX - waived	17	100.0	0.0	0.0	100	70 - 130	17	93.8	6.0	6.4	95	65 - 122
All Chemistry Instruments	20	100.0	0.0	0.0	100	70 - 130	20	94.0	6.2	6.5	96	65 - 123
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	92.6	8.3	8.9	95	64 - 121	14	72.1	5.6	7.7	72	50 - 94
Olympus Direct HDL / LDL												
Olympus AU	14	103.2	10.3	10.0	107	72 - 135	14	81.6	10.0	12.2	84	57 - 107
Roche HDL Direct												
Roche Integra	23	103.3	3.6	3.5	103	72 - 135	23	106.3	4.3	4.0	105	74 - 139
All Chemistry Instruments	27	103.0	3.4	3.3	103	72 - 134	27	105.9	4.1	3.9	105	74 - 138
Siemens Automated HDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	37	99.8	3.3	3.3	99	69 - 130	37	103.1	3.2	3.1	103	72 - 135
All Chemistry Instruments	38	99.7	3.3	3.3	99	69 - 130	38	103.1	3.1	3.0	103	72 - 134
Vital Diagnostics Direct												
Vital Diagnostics ATAC 8000	10	115.6	18.1	15.7	108	80 - 151	10	94.5	14.3	15.1	92	66 - 123
Vital Diagnostics Envoy 500	11	121.1	11.1	9.2	122	84 - 158	11	97.9	12.8	13.1	97	68 - 128
All Chemistry Instruments	21	118.5	14.8	12.5	117	82 - 155	21	96.3	13.3	13.8	93	67 - 126
VITROS												
All Chemistry Instruments	12	116.2	14.9	12.8	108	81 - 152	12	103.8	4.2	4.0	105	72 - 135
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	30	111.6	12.2	10.9	109	78 - 146	29	107.4	8.7	8.1	106	75 - 140
All Chemistry Instruments	35	113.1	13.4	11.9	109	79 - 148	34	107.1	8.1	7.6	106	74 - 140

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	357	100.3	14.2	14.2	100	70 - 131
All Dex-Sulfate 50,000 MW Methods	44	104.3	12.9	12.4	100	73 - 136
All Direct Methods	216	99.2	16.2	16.4	99	69 - 130
All PEG Methods	10	87.8	3.2	3.7	87	61 - 115
All Phosphotungstic Acid Methods	27	99.8	6.3	6.3	99	69 - 130
Abaxis Piccolo						
All Chemistry Instruments	2	-	-	-	100	70 - 130
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE/NexCT/Alera	14	85.2	7.2	8.4	86	59 - 111
Alfa Wassermann - New						
Alfa Wassermann ACE/NexCT/Alera	37	84.8	5.1	6.0	85	59 - 111
Beckman HDLD						
Beckman Synchron LX/Pro/DxC	14	131.7	7.1	5.4	130	92 - 172
All Chemistry Instruments	19	129.7	7.5	5.8	129	90 - 169
Cholestech LDX						
Cholestech LDX - waived	17	100.0	0.0	0.0	100	70 - 130
All Chemistry Instruments	20	100.0	0.0	0.0	100	70 - 130
Horiba ABX Pentra						
Horiba ABX Pentra 400	14	82.2	6.3	7.7	82	57 - 107
Olympus Direct HDL / LDL						
Olympus AU	14	91.2	9.0	9.9	93	63 - 119
Roche HDL Direct						
Roche Integra	24	104.9	4.2	4.0	104	73 - 137
All Chemistry Instruments	28	104.5	4.0	3.9	103	73 - 136
Siemens Automated HDL						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	37	101.6	3.7	3.6	101	71 - 133
All Chemistry Instruments	38	101.6	3.7	3.6	101	71 - 133
Vital Diagnostics Direct						
Vital Diagnostics ATAC 8000	10	119.8	38.3	31.9	108	83 - 156
Vital Diagnostics Envoy 500	11	111.1	14.5	13.0	108	77 - 145
All Chemistry Instruments	20	110.0	14.4	13.1	108	76 - 143
VITROS						
All Chemistry Instruments	12	111.4	9.8	8.8	108	77 - 145
VITROS dHDL Slide						
VITROS 250,350,500,700,750,950	28	106.1	4.5	4.2	107	74 - 138
All Chemistry Instruments	33	106.0	4.4	4.1	107	74 - 138

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-1					Specimen CH-2					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	409	96.0	4.8	5.0	96	71 - 120	411	137.3	9.4	6.8	136	103 - 172
All Roche Integra/c111/c501												
Reagents	42	96.1	3.1	3.2	97	72 - 121	42	131.7	4.5	3.4	132	98 - 165
All Vital Diagnostics Reagents	33	95.1	4.0	4.2	96	71 - 119	33	140.8	8.2	5.8	142	105 - 177
Abaxis Piccolo												
All Chemistry Instruments	13	103.5	2.3	2.2	103	77 - 130	13	149.7	2.2	1.5	149	112 - 188
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	52	98.2	3.4	3.4	99	73 - 123	52	130.6	3.7	2.8	130	97 - 164
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	15	91.6	3.1	3.3	92	68 - 115	15	136.3	4.4	3.2	136	102 - 171
All Chemistry Instruments	23	93.3	4.0	4.3	92	69 - 117	23	141.7	10.3	7.2	137	106 - 178
Cholestech LDX												
Cholestech LDX - waived	50	93.5	3.9	4.2	94	70 - 117	49	136.0	5.6	4.1	135	101 - 170
All Chemistry Instruments	57	93.6	3.9	4.2	94	70 - 117	56	135.7	5.6	4.1	135	101 - 170
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	97.5	4.1	4.2	100	73 - 122	17	136.9	5.8	4.3	139	102 - 172
Olympus												
Olympus AU	21	96.7	2.3	2.3	97	72 - 121	21	138.8	3.3	2.3	138	104 - 174
Pointe Scientific												
All Chemistry Instruments	14	90.0	4.1	4.6	90	67 - 113	15	121.0	11.9	9.9	126	90 - 152
Roche Integra												
Roche Integra	37	95.8	3.0	3.2	96	71 - 120	37	131.1	4.4	3.4	131	98 - 164
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	53	92.4	2.3	2.5	92	69 - 116	53	137.9	2.7	1.9	139	103 - 173
All Chemistry Instruments	54	92.4	2.3	2.5	92	69 - 116	53	137.9	2.7	1.9	139	103 - 173
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	95.6	4.0	4.2	97	71 - 120	16	140.8	6.8	4.8	143	105 - 176
Vital Diagnostics Envoy 500	17	95.9	6.2	6.5	96	71 - 120	17	142.8	12.1	8.5	142	107 - 179
All Chemistry Instruments	32	95.2	4.1	4.3	96	71 - 119	32	140.8	8.3	5.9	142	105 - 177
VITROS												
VITROS 250,350,500,700,750,950	37	101.3	5.1	5.0	101	75 - 127	37	154.4	6.8	4.4	156	115 - 193
All Chemistry Instruments	47	100.7	5.2	5.1	101	75 - 126	47	153.1	7.2	4.7	153	114 - 192

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	366	231.7	15.5	6.7	229	173 - 290	365	106.4	7.6	7.1	105	79 - 133
All Roche Integra/c111/c501												
Reagents	41	221.7	6.9	3.1	223	166 - 278	41	101.3	3.4	3.3	102	76 - 127
All Vital Diagnostics Reagents	34	231.3	13.0	5.6	231	173 - 290	34	114.2	8.0	7.0	113	85 - 143
Abaxis Piccolo												
All Chemistry Instruments	8	-	-	-	252	189 - 316	8	-	-	-	117	95 - 160
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	54	217.5	7.0	3.2	218	163 - 272	54	101.6	3.9	3.9	102	76 - 128
Beckman - cartridge												
Beckman Synchron LX/PRO/DxC	15	232.7	7.8	3.4	232	174 - 291	15	104.1	4.1	4.0	105	78 - 131
All Chemistry Instruments	23	235.7	9.2	3.9	233	176 - 295	23	105.3	4.2	4.0	105	79 - 132
Cholestech LDX												
Cholestech LDX - waived	17	238.6	10.3	4.3	237	178 - 299	17	100.0	3.8	3.8	101	75 - 125
All Chemistry Instruments	20	239.0	9.8	4.1	238	179 - 299	20	100.4	4.2	4.2	101	75 - 126
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	228.4	5.3	2.3	228	171 - 286	17	105.7	6.3	6.0	107	79 - 133
Olympus												
Olympus AU	22	232.5	5.3	2.3	233	174 - 291	21	106.9	2.8	2.6	107	80 - 134
Pointe Scientific												
All Chemistry Instruments	14	216.5	5.6	2.6	218	162 - 271	15	95.2	12.5	13.1	101	71 - 119
Roche Integra												
Roche Integra	36	220.9	7.0	3.2	222	165 - 277	37	100.9	3.2	3.1	102	75 - 127
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	54	230.4	4.3	1.9	230	172 - 288	53	107.3	3.1	2.9	107	80 - 135
All Chemistry Instruments	55	230.4	4.3	1.9	230	172 - 289	54	107.4	3.1	2.8	108	80 - 135
Vital Diagnostics												
Vital Diagnostics ATAC 8000	16	229.9	15.4	6.7	232	172 - 288	16	112.6	6.8	6.1	114	84 - 141
Vital Diagnostics Envoy 500	17	232.9	11.0	4.7	230	174 - 292	17	115.8	9.1	7.9	113	86 - 145
All Chemistry Instruments	33	231.5	13.2	5.7	231	173 - 290	33	114.2	8.1	7.1	113	85 - 143
VITROS												
VITROS 250,350,500,700,750,950	37	263.1	10.2	3.9	261	197 - 329	37	117.5	5.4	4.6	118	88 - 147
All Chemistry Instruments	46	262.4	10.5	4.0	261	196 - 328	47	116.6	5.6	4.8	117	87 - 146

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	Specimen CH-5				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	364	168.8	11.1	6.6	167	126 - 211
All Roche Integra/c111/c501						
Reagents	42	161.4	5.3	3.3	162	121 - 202
All Vital Diagnostics Reagents	34	174.5	8.6	5.0	175	130 - 219
Abaxis Piccolo						
All Chemistry Instruments	8	-	-	-	184	137 - 230
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	53	160.6	5.3	3.3	161	120 - 201
Beckman - cartridge						
Beckman Synchron LX/PRO/DxC	15	169.3	5.7	3.4	169	126 - 212
All Chemistry Instruments	23	170.8	5.7	3.3	170	128 - 214
Cholestech LDX						
Cholestech LDX - waived	16	165.6	6.3	3.8	166	124 - 207
All Chemistry Instruments	19	165.7	6.0	3.6	166	124 - 208
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	167.7	6.7	4.0	169	125 - 210
Olympus						
Olympus AU	21	169.0	3.1	1.8	168	126 - 212
Pointe Scientific						
All Chemistry Instruments	14	153.5	6.1	4.0	156	115 - 192
Roche Integra						
Roche Integra	37	160.8	5.2	3.2	161	120 - 201
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	53	169.2	3.1	1.8	169	126 - 212
All Chemistry Instruments	54	169.2	3.1	1.8	169	126 - 212
Vital Diagnostics						
Vital Diagnostics ATAC 8000	16	174.4	6.6	3.8	176	130 - 219
Vital Diagnostics Envoy 500	17	174.7	10.6	6.1	172	131 - 219
All Chemistry Instruments	33	174.6	8.8	5.0	175	130 - 219
VITROS						
VITROS 250,350,500,700,750,950	37	191.3	8.4	4.4	191	143 - 240
All Chemistry Instruments	47	190.0	8.7	4.6	189	142 - 238

Acetaminophen (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<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	6	13.77	6.13	44.5	13.7	0.0 - 32.2	6	42.52	4.03	9.5	41.2	30.4 - 54.7
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	122.10	7.48	6.1	124.5	99.6 - 144.6	6	15.47	3.13	20.3	14.3	6.0 - 24.9
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	68.18	5.08	7.4	68.8	52.9 - 83.5						

Amikacin (mcg/mL)

One participant reported results for Amikacin. The vendor assay values for specimens CH-1 through CH-5 are: 4.7 mcg/mL, 18.6 mcg/mL, 35.8 mcg/mL, 12.7 mcg/mL, and 25.1 mcg/mL, respectively.

Carbamazepine (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<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	12	3.61	0.25	6.9	3.7	2.7 - 4.6	12	14.74	0.68	4.6	14.7	11.0 - 18.5
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	8.48	0.58	6.9	8.5	6.3 - 10.6	12	16.91	0.89	5.2	16.7	12.6 - 21.2
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	12.79	0.60	4.7	12.8	9.5 - 16.0						

Digoxin (ng/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<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	38	0.85	0.15	17.4	0.9	0.6 - 1.1	37	1.78	0.24	13.4	1.8	1.4 - 2.2
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	37	2.82	0.27	9.7	2.8	2.2 - 3.4	38	1.44	0.21	14.8	1.4	1.1 - 1.8
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	37	2.14	0.23	10.5	2.1	1.7 - 2.6						

Gentamicin (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	11.3	Not graded	2	-	-	-	1.6	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	2.8	Not graded	2	-	-	-	1.4	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	2	-	-	-	2.0	Not graded						

Lithium (mmol/L)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2.38	0.24	10.0	2.5	1.9 - 2.9	5	0.84	0.13	15.0	0.9	0.5 - 1.2
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.50	0.07	14.0	0.5	0.2 - 0.8	5	0.96	0.15	15.6	1.0	0.6 - 1.3
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	0.62	0.20	32.2	0.7	0.3 - 1.0						

Phenobarbital (mcg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	15.29	0.58	3.8	15.0	12.2 - 18.4	7	33.04	2.29	6.9	33.0	26.4 - 39.7
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	44.31	3.44	7.8	43.6	35.4 - 53.2	7	29.66	2.35	7.9	29.7	23.7 - 35.6
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	7	36.69	3.67	10.0	36.7	29.3 - 44.1						

Phenytoin (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<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	18	7.38	0.81	10.9	7.6	5.5 - 9.3	18	27.76	2.43	8.8	27.5	20.8 - 34.8
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	15.01	1.48	9.9	14.9	11.2 - 18.8	18	31.61	2.73	8.6	31.9	23.7 - 39.6
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	23.16	1.67	7.2	23.4	17.3 - 29.0						

Salicylate (mg/dL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<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	-	-	-	10.1	Not graded	3	-	-	-	20.2	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	41.0	Not graded	3	-	-	-	12.8	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	3	-	-	-	24.6	Not graded						

Theophylline (mcg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	21.44	1.20	5.6	21.7	16.0 - 26.8	8	33.78	2.44	7.2	33.7	25.3 - 42.3
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	10.44	0.65	6.2	10.5	7.8 - 13.1	8	40.09	2.55	6.4	40.2	30.0 - 50.2
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	8	25.84	1.51	5.8	26.4	19.3 - 32.3						

Valproic Acid (mcg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	86.31	13.64	15.8	88.0	64.7 - 107.9	11	65.72	10.59	16.1	67.5	49.2 - 82.2
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	132.34	19.85	15.0	132.9	99.2 - 165.5	11	43.03	6.50	15.1	45.1	32.2 - 53.8
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	90.05	16.04	17.8	91.8	67.5 - 112.6						

Vancomycin (mcg/mL)

Specimen CH-1							Specimen CH-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	3.80	0.70	18.5	3.8	1.6 - 6.0	7	37.21	1.51	4.1	37.0	32.6 - 41.8
Specimen CH-3							Specimen CH-4					
All Method	7	51.99	2.72	5.2	51.7	43.8 - 60.2	7	32.61	2.09	6.4	31.7	26.3 - 38.9
Specimen CH-5												
All Method	7	43.13	3.49	8.1	42.0	32.6 - 53.6						

Apolipoprotein A1 (mg/dL)

Specimen LP-1							Specimen LP-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	242.4	24.8	10.2	241	168 - 317	9	166.8	22.6	13.6	165	98 - 235

Apolipoprotein B (mg/dL)

Specimen LP-1							Specimen LP-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	122.1	20.7	17.0	123	59 - 185	8	58.9	3.3	5.6	60	49 - 69

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	Specimen NB-1						Specimen NB-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	24	18.58	1.62	8.7	19.2	14.8 - 22.3	24	2.73	0.30	11.0	2.7	2.1 - 3.3
No Reagent Required												
All Chemistry Instruments	12	18.90	1.21	6.4	19.3	15.1 - 22.7	12	2.58	0.21	8.3	2.5	2.0 - 3.1
	Specimen NB-3						Specimen NB-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	25	13.92	1.29	9.3	14.2	11.1 - 16.7	24	20.86	1.67	8.0	20.7	16.6 - 25.1
No Reagent Required												
All Chemistry Instruments	13	14.19	0.82	5.8	14.6	11.3 - 17.1	13	21.38	1.14	5.3	22.0	17.1 - 25.7
	Specimen NB-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	24	7.43	0.60	8.1	7.6	5.9 - 9.0						
No Reagent Required												
All Chemistry Instruments	13	7.49	0.25	3.3	7.6	5.9 - 9.0						

Bilirubin, Direct (mg/dL)

<u>Method</u>	Specimen NB-1						Specimen NB-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	9.12	1.48	16.3	8.8	4.6 - 13.6	11	0.65	0.17	25.9	0.6	0.1 - 1.2

Blood Gases – pH

<u>Method</u>	Specimen BG-1						Specimen BG-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	7.085	0.020	0.3	7.08	7.04 - 7.13	16	7.365	0.017	0.2	7.37	7.32 - 7.41
	Specimen BG-3						Specimen BG-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	7.434	0.014	0.2	7.44	7.39 - 7.48	16	7.187	0.017	0.2	7.20	7.14 - 7.23
	Specimen BG-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	7.665	0.024	0.3	7.67	7.62 - 7.71						

Blood Gases - pCO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-1				<u>Labs</u>	<u>Mean</u>	Specimen BG-2			
			<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	16	64.19	3.19	5.0	64.2	59.0 - 69.4	15	40.73	2.16	5.3	40.3	35.7 - 45.8
			Specimen BG-3						Specimen BG-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	36.25	2.13	5.9	35.7	31.2 - 41.3	16	61.93	4.09	6.6	61.8	56.9 - 67.0
			Specimen BG-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	16	21.72	1.36	6.3	21.6	16.7 - 26.8						

Blood Gases - pO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-1				<u>Labs</u>	<u>Mean</u>	Specimen BG-2			
			<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	15	53.01	10.69	20.2	55.0	20.9 - 85.1	15	171.95	13.57	7.9	173.0	131.2 - 212.7
			Specimen BG-3						Specimen BG-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	93.07	5.53	5.9	93.5	76.4 - 109.7	14	66.91	10.25	15.3	68.5	36.1 - 97.7
			Specimen BG-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	15	129.89	6.79	5.2	129.0	109.5 - 150.3						

Blood Gases - Ionized Calcium (mmol/L)

One participant reported results for Blood Gases – Ionized Calcium. The vendor assay mean values for specimens BG-1 and BG-2 are: 1.75 mmol/L and 1.32 mmol/L, respectively.

Blood Gases – Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-1 through BG-5 are: 127.3 mmol/L, 92.2 mmol/L, 99.3 mmol/L, 79.1mmol/L, and 118.9 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-1				<u>Labs</u>	<u>Mean</u>	Specimen BG-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	5.6	Not graded	2	-	-	-	3.8	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-3				<u>Labs</u>	<u>Mean</u>	Specimen BG-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	4.3	Not graded	2	-	-	-	3.1	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-5				<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	2	-	-	-	6.7	Not graded						

Blood Gases - Sodium (mmol/L)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-1				<u>Labs</u>	<u>Mean</u>	Specimen BG-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	151	Not graded	2	-	-	-	132	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-3				<u>Labs</u>	<u>Mean</u>	Specimen BG-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	136	Not graded	2	-	-	-	116	Not graded
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-5				<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	2	-	-	-	155	Not graded						

Glycohemoglobin (percent)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen GH-1				<u>Labs</u>	<u>Mean</u>	Specimen GH-2			
			<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	304	5.57	0.27	4.8	5.6	4.7 - 6.4	304	7.57	0.31	4.1	7.6	6.6 - 8.5
All Hemoglobin A1c Methods	302	5.57	0.26	4.7	5.6	4.7 - 6.4	301	7.57	0.30	4.0	7.6	6.6 - 8.5
Bayer (Metrika) A1C Now	12	5.30	0.37	7.0	5.3	4.1 - 6.5	12	7.43	0.35	4.8	7.4	6.3 - 8.5
Bayer DCA 2000/+	30	5.63	0.22	4.0	5.7	4.9 - 6.3	30	7.79	0.25	3.2	7.8	7.0 - 8.6
Bio-Rad D-10 HbA1C	14	5.76	0.13	2.2	5.8	5.3 - 6.2	14	7.51	0.13	1.7	7.5	7.1 - 8.0
Olympus AU A1c	11	5.41	0.21	3.9	5.4	4.7 - 6.1	11	7.48	0.28	3.7	7.4	6.6 - 8.4
Roche Integra A1C	17	5.59	0.23	4.2	5.5	4.8 - 6.3	17	7.50	0.25	3.4	7.5	6.7 - 8.3
Siemens DCA Vantage	112	5.59	0.17	3.1	5.6	5.0 - 6.2	113	7.61	0.22	2.9	7.6	6.9 - 8.3
Siemens Dimension HA1C	41	5.53	0.23	4.1	5.5	4.8 - 6.3	41	7.37	0.26	3.5	7.3	6.5 - 8.2
TOSOH G7	10	5.90	0.26	4.4	6.0	5.1 - 6.7	10	7.31	1.52	20.9	7.9	2.7 - 11.9

B-Type Natriuretic Peptide (BNP)

<u>Method</u>	Specimen BNP-1						Specimen BNP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	39	39.4	5.3	13.4	40	23 - 56	39	1386.4	226.1	16.3	1330	708 - 2065
Biosite Triage	39	39.4	5.3	13.4	40	23 - 56	38	1368.2	197.9	14.5	1335	774 - 1962

NT-proBNP

<u>Method</u>	Specimen BNP-1						Specimen BNP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	61.0	28.1	46.0	68	0 - 146	5	6233.6	1539.9	24.7	5853	13 - 9254

Afinion Glycohemoglobin (percent)

<u>Method</u>	Specimen AFN-1						Specimen AFN-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Axis-Shield Afinion AS100	42	8.29	0.15	1.9	8.3	7.8 - 8.8	42	6.43	0.16	2.5	6.4	5.9 - 7.0

BNP (pg/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	Specimen TCK-1						Specimen TCK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	43	37.1	4.3	11.5	36	24 - 50	44	1295.5	180.7	13.9	1305	753 - 1838
<u>Method</u>	Specimen TCK-3						Specimen TCK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	44	215.1	27.4	12.8	215	132 - 298	44	396.4	55.5	14.0	396	230 - 563
<u>Method</u>	Specimen TCK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	42	711.9	86.2	12.1	703	453 - 971						

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

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-1				<u>Labs</u>	<u>Mean</u>	Specimen TCK-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	45	2.1	0.7	32.3	2	0 - 5	43	36.5	4.8	13.1	37	22 - 51
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-3				<u>Labs</u>	<u>Mean</u>	Specimen TCK-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	44	6.9	1.3	19.3	7	2 - 11	45	11.5	2.0	17.3	11	5 - 18
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	43	21.1	3.7	17.8	21	9 - 33						

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

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-1				<u>Labs</u>	<u>Mean</u>	Specimen TCK-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u> <u>n</u>	<u>Range</u>
Biosite Triage	37	109.2	13.7	12.5	100	68 - 151	38	1253.8	150.2	12.0	1270	803 - 1705
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-3				<u>Labs</u>	<u>Mean</u>	Specimen TCK-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	37	244.8	41.6	17.0	245	119 - 370	38	425.0	72.9	17.1	422	206 - 644
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	37	725.2	78.9	10.9	724	488 - 962						

Myoglobin (ng/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-1				<u>Labs</u>	<u>Mean</u>	Specimen TCK-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	40	60.5	7.5	12.4	61	37 - 83	38	480.2	33.1	6.9	500	380 - 580
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-3				<u>Labs</u>	<u>Mean</u>	Specimen TCK-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	41	142.5	23.5	16.5	142	71 - 214	41	227.0	48.2	21.3	222	82 - 372
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	41	359.0	65.3	18.2	357	163 - 555						

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

<u>Method</u>	Specimen TCK-1						Specimen TCK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	41	0.051	0.004	8.2	0.05	0.03 - 0.07	44	7.798	2.004	25.7	7.48	1.78 - 13.81
<u>Method</u>	Specimen TCK-3						Specimen TCK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	44	0.409	0.116	28.3	0.41	0.06 - 0.76	44	1.056	0.322	30.5	1.05	0.08 - 2.03
<u>Method</u>	Specimen TCK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	44	3.185	0.861	27.0	3.26	0.60 - 5.77						

C-Peptide (ng/mL)

<u>Method</u>	Specimen CIP-1						Specimen CIP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	7.328	2.719	37.1	8.70	0.00 - 15.49	11	0.419	0.201	48.0	0.37	0.00 - 1.03

Insulin (μU/mL)

<u>Method</u>	Specimen CIP-1						Specimen CIP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	73.68	37.71	51.2	47.3	0.0 - 186.8	14	10.94	4.20	38.4	8.8	0.0 - 23.6

Parathyroid hormone (pg/mL)

<u>Method</u>	Specimen CIP-1						Specimen CIP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	29	151.4	36.6	24.2	142	41 - 262	27	9.3	1.5	16.6	10	4 - 14

Vitamin D

<u>Method</u>	Specimen CIP-1						Specimen CIP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	51.35	13.64	26.6	51.0	10.4 - 92.3	21	15.17	3.09	20.3	15.0	5.9 - 24.5

CK-MB (ng/mL) Quantitative

<u>Method</u>	<u>Labs</u>	Specimen CK-1					<u>Labs</u>	Specimen CK-2				
		<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	20	4.47	1.99	44.5	4.7	0.0 - 10.5	20	83.86	33.47	39.9	87.6	0.0 - 184.3
<u>Method</u>	<u>Labs</u>	Specimen CK-3					<u>Labs</u>	Specimen CK-4				
		<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	20	13.49	5.43	40.3	14.8	0.0 - 29.8	20	23.63	8.88	37.6	24.5	0.0 - 50.3
<u>Method</u>	<u>Labs</u>	Specimen CK-5					<u>Labs</u>					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	44.34	17.45	39.4	44.9	0.0 - 96.7						

CK-MB (Qualitative)

<u>Method</u>	Specimen CK-1		Specimen CK-2		Specimen CK-3	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	-	2	-	2	-
LifeSign MI	2	-	2	-	2	-
<u>Method</u>	Specimen CK-4		Specimen CK-5			
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>		
ALL METHODS	2	-	2	-		
LifeSign MI	2	-	2	-		

Myoglobin (Quantitative)

<u>Method</u>	<u>Labs</u>	Specimen CK-1					<u>Labs</u>	Specimen CK-2				
		<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	11	44.75	7.35	16.4	44.4	22.6 - 66.9	11	558.48	166.9	29.9	500.0	57.5 - 1059.5
								8				

Myoglobin (Qualitative)

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

Troponin I (ng/mL) Quantitative

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	0.081	0.087	108.6	0.05	0.00 - 0.35	19	9.019	5.874	65.1	8.29	0.00 - 26.65

Troponin I (Qualitative)

<u>Method</u>	Specimen CK-1		Specimen CK-2	
	<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-1						Specimen PS-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	258	0.358	0.066	18.5	0.35	0.15 - 0.56	255	26.922	4.738	17.6	26.82	12.70 - 41.14
All Roche Elecsys/cobas e 601 Instruments	12	0.394	0.029	7.4	0.40	0.30 - 0.49	12	28.497	3.122	11.0	29.26	19.13 - 37.87
All TOSOH Instruments	54	0.338	0.033	9.7	0.34	0.23 - 0.44	54	22.371	0.965	4.3	22.34	19.47 - 25.27
Abbott Architect	10	0.290	0.021	7.1	0.30	0.22 - 0.36	10	25.535	2.310	9.0	25.05	18.60 - 32.47
Abbott AxSYM	14	0.282	0.024	8.5	0.29	0.21 - 0.36	14	23.534	1.203	5.1	23.57	19.92 - 27.15
Abbott AxSYM Total PSA	11	0.282	0.034	12.2	0.29	0.17 - 0.39	11	23.734	1.142	4.8	23.70	20.30 - 27.16
Beckman ACCESS / 2 / Dxl	15	0.406	0.026	6.3	0.40	0.32 - 0.49	15	30.157	2.270	7.5	30.39	23.34 - 36.97
Beckman ACCESS Hybritech PSA	27	0.397	0.020	4.9	0.40	0.33 - 0.46	27	30.528	1.285	4.2	30.38	26.67 - 34.39
bioMerieux Vidas, Mini Vidas	48	0.443	0.035	7.8	0.44	0.33 - 0.55	48	31.212	2.855	9.1	31.03	22.64 - 39.78
Qualigen FastPack	10	0.225	0.043	19.0	0.23	0.09 - 0.36	10	40.830	5.434	13.3	40.35	24.52 - 57.14
Roche Elecsys 1010/2010	12	0.394	0.029	7.4	0.40	0.30 - 0.49	12	28.497	3.122	11.0	29.26	19.13 - 37.87
Siemens Dimension TPSA	30	0.311	0.038	12.1	0.32	0.19 - 0.43	29	27.390	1.699	6.2	27.58	22.29 - 32.49
TOSOH AIA	13	0.336	0.038	11.4	0.33	0.22 - 0.46	13	22.724	1.581	7.0	21.94	17.98 - 27.47
TOSOH ST AIA	41	0.338	0.031	9.3	0.34	0.24 - 0.44	41	22.403	0.744	3.3	22.40	20.17 - 24.64

Alpha-fetoprotein (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	312.5	14.6	4.7	311	268 - 357	5	1.0	0.1	10.0	1	0 - 2

Beta-2 microglobulin

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	3.801	0.146	3.8	3.80	3.36 - 4.24	7	0.256	0.072	28.0	0.22	0.04 - 0.48

CA 125 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	175.5	48.3	27.5	161	30 - 321	21	17.9	4.6	26.0	17	3 - 32
TOSOH ST AIA	10	214.4	35.1	16.4	221	109 - 320	10	25.9	12.1	46.6	22	0 - 63

CA 15-3 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	96.3	26.5	27.5	99	16 - 176	16	20.1	5.6	27.7	20	3 - 37

CA 19-9 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	59.1	23.4	39.6	55	0 - 130	7	9.6	3.0	31.3	9	0 - 19

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	93.8	5.5	5.9	94	77 - 111	17	20.6	2.1	10.0	21	14 - 27
All TOSOH Instruments	16	93.8	5.5	5.9	94	77 - 111	17	20.6	2.1	10.0	21	14 - 27
TOSOH ST AIA	12	94.7	5.4	5.7	94	78 - 111	13	20.8	1.9	9.0	21	15 - 27

CEA (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	53.56	15.11	28.2	56.9	8.2 - 98.9	34	6.81	2.02	29.7	6.4	0.7 - 12.9
All TOSOH Instruments	15	65.87	2.68	4.1	65.5	57.8 - 73.9	15	8.79	0.43	4.9	8.8	7.5 - 10.1
TOSOH ST AIA	12	65.72	2.97	4.5	65.5	56.8 - 74.7	12	8.81	0.45	5.1	8.8	7.4 - 10.2

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	13.194	3.777	28.6	12.64	1.86 - 24.53	18	0.017	0.026	156.7	0.00	0.00 - 0.10

PSA (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	55	15.270	2.129	13.9	14.80	8.88 - 21.66	54	0.035	0.032	89.5	0.02	0.00 - 0.14
All TOSOH Instruments	14	13.800	0.708	5.1	14.01	11.67 - 15.93	13	0.056	0.025	44.5	0.05	0.00 - 0.14
Beckman ACCESS Hybritech PSA	11	18.448	1.895	10.3	18.19	12.76 - 24.14	11	0.017	0.008	45.4	0.02	0.00 - 0.05
TOSOH ST AIA	12	13.766	0.764	5.5	14.03	11.47 - 16.06	11	0.062	0.020	32.2	0.05	0.00 - 0.13

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	34.13	5.05	14.8	34.3	18.9 - 49.3	7	0.51	0.56	109.7	0.2	0.0 - 2.3

CEA (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	0.62	0.18	28.5	0.6	0.0 - 1.2	25	33.98	3.27	9.6	34.2	24.1 - 43.8
All TOSOH Instruments	11	0.73	0.10	13.9	0.8	0.4 - 1.1	11	33.84	1.03	3.1	34.0	30.7 - 37.0

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	41	35.1	11.7	33.4	36	0 - 71	41	424.7	157.9	37.2	352	0 - 899

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	150	8.6	2.0	23.4	8	2 - 15	153	320.7	47.7	14.9	306	177 - 464
All Abbott Instruments	16	9.2	1.3	13.9	9	5 - 14	16	409.1	36.7	9.0	409	298 - 520
All Immulite Instruments	14	9.1	0.9	9.5	9	6 - 12	14	338.9	24.4	7.2	338	265 - 413
All TOSOH Instruments	31	7.0	0.4	5.2	7	5 - 9	32	281.1	9.5	3.4	281	252 - 310
Abbott AxSYM	11	8.8	1.1	12.2	9	5 - 13	11	392.5	31.2	7.9	398	298 - 487
Beckman ACCESS / 2 / Dxl	36	7.3	0.6	9.0	7	5 - 10	39	288.5	17.2	6.0	288	236 - 341
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	10.5	0.6	5.9	10	8 - 13	17	348.5	13.2	3.8	344	308 - 388
TOSOH ST AIA	23	7.0	0.4	6.1	7	5 - 9	24	280.4	9.7	3.5	280	251 - 310

Folate (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	0.97	0.52	53.2	0.9	0.0 - 2.6	86	13.13	2.51	19.1	13.3	5.6 - 20.7
Beckman ACCESS / 2 / Dxl	33	0.68	0.25	36.4	0.7	0.0 - 1.5	33	13.25	1.80	13.6	13.4	7.8 - 18.7
TOSOH AIA	11	1.43	0.39	27.2	1.5	0.2 - 2.6	11	10.48	1.31	12.5	10.1	6.5 - 14.5

FSH (mIU/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	54	6.50	0.90	13.8	6.4	3.8 - 9.3	54	65.88	6.11	9.3	65.5	47.5 - 84.3
All Immulite Instruments	10	5.56	0.36	6.5	5.7	4.4 - 6.7	10	67.09	4.06	6.1	67.2	54.9 - 79.3
All TOSOH Instruments	12	7.64	0.24	3.2	7.7	6.9 - 8.4	12	60.84	2.63	4.3	60.8	52.9 - 68.8
Beckman ACCESS / 2 / Dxl	12	7.05	0.39	5.5	7.1	5.8 - 8.3	12	66.49	3.74	5.6	67.5	55.2 - 77.8

Homocysteine (μmol/L)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	7.1	1.2	16.4	7	3 - 11	19	36.8	2.5	6.7	37	29 - 45

LH (mIU/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	43	3.46	0.55	15.8	3.3	1.8 - 5.2	42	46.98	7.92	16.9	46.7	23.2 - 70.8
All Immulite Instruments	10	4.19	0.19	4.4	4.3	3.6 - 4.8	10	57.75	3.96	6.8	58.9	45.8 - 69.7

Progesterone (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	3.01	0.36	12.1	3.1	1.9 - 4.1	26	37.08	7.98	21.5	35.6	13.1 - 61.1

Prolactin (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	37	2.37	0.65	27.3	2.4	0.4 - 4.4	37	18.04	2.45	13.6	18.0	10.6 - 25.4
All Immulite Instruments	10	2.19	0.15	7.0	2.2	1.7 - 2.7	10	16.90	1.90	11.3	16.3	11.1 - 22.7

Testosterone (ng/dL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	84	163.1	49.6	30.4	153	14 - 312	82	943.9	122.5	13.0	928	576 - 1312
Beckman ACCESS / 2 / Dxl	21	120.0	5.8	4.8	120	102 - 138	21	877.9	50.4	5.7	874	726 - 1030
DPC Immulite/1000	11	200.5	26.8	13.4	192	120 - 281	10	990.5	116.5	11.8	930	640 - 1341
TOSOH ST AIA	12	156.0	25.8	16.6	157	78 - 234	12	1094.3	85.7	7.8	1107	837 - 1352

Transferrin (mg/dL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	70.2	3.7	5.3	70	59 - 82	16	287.2	16.3	5.7	288	238 - 337

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	105	400.4	53.9	13.5	384	238 - 563	106	1350.8	218.8	16.2	1377	694 - 2008
Abbott AxSYM	12	382.8	28.1	7.3	379	298 - 468	12	1243.7	144.5	11.6	1200	810 - 1678
Beckman ACCESS / 2 / Dxl	37	373.0	27.5	7.4	370	290 - 456	39	1287.5	145.3	11.3	1250	851 - 1724
TOSOH AIA	14	487.4	39.4	8.1	481	369 - 606	14	1460.9	73.1	5.0	1453	1241 - 1681

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-1						Specimen ETH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	77.8	7.1	9.1	80	58 - 98	12	321.8	36.8	11.5	335	241 - 403
<u>Method</u>	Specimen ETH-3						Specimen ETH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.8	1.6	8.8	3	0 - 3	12	103.6	9.1	8.8	105	77 - 130
<u>Method</u>	Specimen ETH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	154.3	13.6	8.8	157	115 - 193						

Acetone

Specimen ETH-1						Specimen ETH-2				
<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	7	-	5	2	-	7	7	-	-	-
Bayer Acetest	6	-	5	1	-	6	6	-	-	-
Specimen ETH-3						Specimen ETH-4				
ALL METHODS	7	7	-	-	-	7	7	-	-	-
Bayer Acetest	6	6	-	-	-	6	6	-	-	-
Specimen ETH-5										
ALL METHODS	7	-	5	2	-					
Bayer Acetest	6	-	5	1	-					

Urine Drug Screen

Anti-Thyroglobulin Antibody (IU/mL)

Specimen THY-1							Specimen THY-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	3038.1	582.9	19.2	3000	1289 - 4787	14	16.6	7.4	44.5	20	0 - 39

Anti-Microsomal Antibody (IU/mL)

Specimen THY-1							Specimen THY-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	104.6	31.3	30.0	105	10 - 199	20	6.1	5.8	95.1	10	0 - 24

Alcohol

Specimen UDS-1				Specimen UDS-2		
<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	11	11	-	11	11	-
Dade Behring EMIT II Plus	2	2	-	2	2	-
Microgenics DRI	3	3	-	3	3	-
Mindray BS-200	1	1	-	1	1	-
Roche Integra	1	1	-	1	1	-
Siemens (Dade) Dimension	1	1	-	1	1	-

Acetaminophen

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	6	-	6	6	6	-
BioSite Diagnostics Triage	6	-	6	6	6	-

Amphetamines

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	97	-	97	97	-	97
ACON Laboratories	4	-	4	4	-	4
Beckman Synchron	1	-	1	1	-	1
BioSite Diagnostics Triage	10	-	10	10	-	10
BMC QuickTox Drug Screen	16	-	16	16	-	16
Dade Behring EMIT II Plus	5	-	5	5	-	5
Innovacon Multi-CLIN Drug Screen	3	-	3	3	-	3
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Instant Technologies i Cassette	4	-	4	4	-	4
Instant Technologies i Screen	6	-	6	6	-	6
Instant Technologies iCup	4	-	4	4	-	4
Integrated E-Z Split Key Cup / II	6	-	6	6	-	6
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	8	-	8	8	-	8
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	3	-	3	3	-	3
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	1	-	1	1	-	1

Barbiturates

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	67	-	67	68	-	68
Abbott AxSYM	1	-	1	1	-	1
ACON Laboratories	1	-	1	1	-	1
Beckman Synchron	1	-	1	1	-	1
BioSite Diagnostics Triage	10	-	10	10	-	10
BMC QuickTox Drug Screen	1	-	1	1	-	1
Dade Behring EMIT II Plus	3	-	3	3	-	3
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	6	-	6	6	-	6
Instant Technologies iCup	3	-	3	3	-	3
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	5	-	5
Microgenics DRI	7	-	7	7	-	7
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	4	-	4	4	-	4
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	1	-	1	1	-	1

Benzodiazepines

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	71	71	-	70	-	70
Abbott AxSYM	1	1	-	1	-	1
ACON Laboratories	1	1	-	1	-	1
Beckman Synchron	1	1	-	1	-	1
BioSite Diagnostics Triage	10	10	-	10	-	10
BMC QuickTox Drug Screen	1	1	-	1	-	1
Dade Behring EMIT II Plus	5	5	-	5	-	5
Innovacon Multi-CLIN Drug Screen	3	3	-	3	-	3
Innovacon Multi-Drug One Step	1	1	-	1	-	1
Instant Technologies i Cassette	3	3	-	3	-	3
Instant Technologies i Screen	6	6	-	6	-	6
Instant Technologies iCup	3	3	-	3	-	3
Integrated E-Z Split Key Cup / II	1	1	-	1	-	1
MEDTOX Diagnostics	5	5	-	4	-	4
Microgenics DRI	8	8	-	8	-	8
Mindray BS-200	1	1	-	1	-	1
Noble Medical Inc.	4	4	-	4	-	4
Phamatech QuickScreen Pro	1	1	-	1	-	1
Redwood Toxicology Reditest	2	2	-	2	-	2
Roche Integra	1	1	-	1	-	1

Burprenophrine

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	12	12	-	12	-	12
Dade Behring EMIT II Plus	1	1	-	1	-	1
Microgenics CEDIA	3	3	-	3	-	3
Mindray BS-200	1	1	-	1	-	1
Noble Medical Inc.	1	1	-	1	-	1

Cannabinoids (THC)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	104	1	103	104	102	2
Abbott AxSYM	1	-	1	1	1	-
ACON Laboratories	4	-	4	4	4	-
Beckman Synchron	1	-	1	1	1	-
BioSite Diagnostics Triage	10	-	10	10	10	-
BMC QuickTox Drug Screen	16	-	16	16	16	-
Dade Behring EMIT II Plus	5	-	5	5	5	-
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	4	-	4	4	4	-
Instant Technologies i Screen	6	-	6	6	6	-
Instant Technologies iCup	5	-	5	5	5	-
Integrated E-Z Split Key Cup / II	7	-	7	7	7	-
Jant Accutest MultiDrug Screen	1	1	-	1	-	1
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	8	-	8	8	8	-
Mindray BS-200	1	-	1	1	1	-
Noble Medical Inc.	5	-	5	5	5	-
Phamatech QuickScreen Pro	1	-	1	1	1	-
Redwood Toxicology Reditest	2	-	2	2	2	-
Roche Integra	1	-	1	1	1	-

Cocaine Metabolites

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	105	-	105	104	1	103
Abbott AxSYM	3	-	3	3	-	3
ACON Laboratories	4	-	4	4	-	4
Beckman Synchron	1	-	1	1	-	1
BioSite Diagnostics Triage	10	-	10	10	-	10
BMC QuickTox Drug Screen	16	-	16	16	-	16
Dade Behring EMIT II Plus	5	-	5	4	-	4
Innovacon Multi-CLIN Drug Screen	3	-	3	3	-	3
Innovacon Multi-Drug One Step	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Cassette	4	-	4	4	-	4
Instant Technologies i Screen	6	-	6	6	-	6
Instant Technologies iCup	5	-	5	5	-	5
Integrated E-Z Split Key Cup / II	7	-	7	7	-	7
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	8	-	8	8	-	8
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	3	-	3	3	-	3
Phamatech QuickScreen Pro	1	-	1	1	-	1
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	1	-	1	1	-	1

MDMA

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	21	-	21	21	-	21
Innovacon Multi-CLIN Drug Screen	2	-	2	2	-	2
Instant Technologies i Screen	1	-	1	1	-	1
Instant Technologies iCup	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Microgenics DRI	4	-	4	4	-	4
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1

Methadone

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	50	-	50	50	-	50
Abbott AxSYM	1	-	1	1	-	1
Beckman Synchron	1	-	1	1	-	1
BioSite Diagnostics Triage	6	-	6	6	-	6
BMC QuickTox Drug Screen	1	-	1	1	-	1
Dade Behring EMIT II Plus	3	-	3	3	-	3
Innovacon Multi-Drug One Step	2	-	2	2	-	2
Instant Technologies i Cassette	2	-	2	2	-	2
Instant Technologies i Screen	4	-	4	4	-	4
Instant Technologies iCup	2	-	2	2	-	2
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
MEDTOX Diagnostics	2	-	2	2	-	2
Microgenics DRI	7	-	7	7	-	7
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	4	-	4	4	-	4
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	1	-	1	1	-	1

Methamphetamines

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	66	-	66	66	-	66
Abbott AxSYM	3	-	3	3	-	3
ACON Laboratories	1	-	1	1	-	1
BioSite Diagnostics Triage	10	-	10	10	-	10
BMC QuickTox Drug Screen	15	-	15	15	-	15
Dade Behring EMIT II Plus	1	-	1	1	-	1
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Cassette	4	-	4	4	-	4
Instant Technologies i Screen	6	-	6	6	-	6
Instant Technologies iCup	4	-	4	4	-	4
Integrated E-Z Split Key Cup / II	2	-	2	2	-	2
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
MEDTOX Diagnostics	2	-	2	2	-	2
Noble Medical Inc.	2	-	2	2	-	2
Phamatech QuickScreen Pro	1	-	1	1	-	1
Redwood Toxicology Reditest	2	-	2	2	-	2

Methaqualone

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	3	2	1	3	2	1
BMC QuickTox Drug Screen	1	-	1	1	-	1
Dade Behring EMIT II Plus	2	2	-	2	2	-

Morphine

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	-	2	2	-	2

Opiates

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	104	-	104	104	-	104
Abbott AxSYM	3	-	3	3	-	3
ACON Laboratories	4	-	4	4	-	4
Beckman Synchron	1	-	1	1	-	1
BioSite Diagnostics Triage	10	-	10	10	-	10
BMC QuickTox Drug Screen	16	-	16	16	-	16
Dade Behring EMIT II Plus	4	-	4	4	-	4
Innovacon Multi-CLIN Drug Screen	3	-	3	3	-	3
Innovacon Multi-Drug One Step	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Cassette	4	-	4	4	-	4
Instant Technologies i Screen	6	-	6	6	-	6
Instant Technologies iCup	4	-	4	4	-	4
Integrated E-Z Split Key Cup / II	7	-	7	7	-	7
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	8	-	8	8	-	8
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	3	-	3	3	-	3
Phamatech QuickScreen Pro	1	-	1	1	-	1
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	1	-	1	1	-	1

Oxycodone

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	36	-	36	36	36	-
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	2	-	2	2	2	-
Innovacon Multi-Drug One Step	1	-	1	1	1	-
Instant Technologies i Cassette	1	-	1	1	1	-
Instant Technologies i Screen	3	-	3	3	3	-
Instant Technologies iCup	1	-	1	1	1	-
MEDTOX Diagnostics	2	-	2	2	2	-
Microgenics DRI	8	-	8	8	8	-
Mindray BS-200	1	-	1	1	1	-
Noble Medical Inc.	2	-	2	2	2	-
Redwood Toxicology Reditest	1	-	1	1	1	-

Phencyclidine (PCP)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	71	70	1	71	-	71
Abbott AxSYM	1	1	-	1	-	1
ACON Laboratories	4	4	-	4	-	4
Beckman Synchron	1	1	-	1	-	1
BioSite Diagnostics Triage	10	9	1	10	-	10
Dade Behring EMIT II Plus	4	4	-	4	-	4
Innovacon Multi-CLIN Drug Screen	3	3	-	3	-	3
Innovacon Multi-Drug One Step	1	1	-	1	-	1
InstaCheck Drug Screen	1	1	-	1	-	1
Instant Technologies i Cassette	4	4	-	4	-	4
Instant Technologies i Screen	5	5	-	5	-	5
Instant Technologies iCup	1	1	-	1	-	1
Integrated E-Z Split Key Cup / II	7	7	-	7	-	7
Jant Accutest MultiDrug Screen	1	1	-	1	-	1
MEDTOX Diagnostics	4	4	-	4	-	4
Microgenics DRI	5	5	-	5	-	5
Mindray BS-200	1	1	-	1	-	1
Noble Medical Inc.	3	3	-	3	-	3
Redwood Toxicology Reditest	2	2	-	2	-	2
Roche Integra	1	1	-	1	-	1

Propoxyphene

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	25	-	25	25	1	24
Beckman Synchron	1	-	1	1	-	1
Dade Behring EMIT II Plus	3	-	3	3	-	3
Innovacon Multi-CLIN Drug Screen	2	-	2	2	-	2
Instant Technologies i Cassette	3	-	3	3	-	3
Instant Technologies i Screen	1	-	1	1	-	1
Instant Technologies iCup	2	-	2	2	-	2
MEDTOX Diagnostics	2	-	2	2	-	2
Microgenics DRI	3	-	3	3	-	3
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1

Tricyclic Antidepressants

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	21	20	1	21	-	21
BioSite Diagnostics Triage	6	6	-	6	-	6
Innovacon Multi-CLIN Drug Screen	3	2	1	3	-	3
Instant Technologies i Cassette	1	1	-	1	-	1
Instant Technologies i Screen	4	4	-	4	-	4
Jant Accutest MultiDrug Screen	1	1	-	1	-	1
MEDTOX Diagnostics	2	2	-	2	-	2

Ammonia (μmol/L)

<u>Method</u>	Specimen AMM-1						Specimen AMM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	137.7	8.0	5.8	136	113 - 162	6	61.8	2.1	3.5	61	55 - 69

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-1						Specimen WBG-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	416	268.3	43.5	16.2	257	137 - 399	427	111.5	19.3	17.3	108	53 - 170
Abbott FreeStyle Lite	36	249.9	19.1	7.6	247	192 - 308	36	107.8	8.9	8.2	108	81 - 135
Bayer Contour	96	243.1	45.6	18.8	224	106 - 380	95	94.8	9.4	9.9	91	66 - 123
HemoCue 201	30	273.1	7.2	2.6	274	251 - 295	31	137.8	5.3	3.9	138	121 - 154
Home Diagnostics TrueTrack / TrueBalance	5	-	-	-	571	Not graded	14	337.4	10.4	3.1	339	306 - 369
Hypoguard Assure	10	485.2	34.6	7.1	487	381 - 590	10	175.9	39.9	22.7	169	56 - 296
Lifescan One Touch Ultra/2/Mini	45	296.4	17.1	5.8	299	245 - 348	47	124.4	5.7	4.6	125	107 - 142
LifeScan SureStep Flex	19	379.9	22.9	6.0	379	311 - 449	19	133.5	7.5	5.6	134	111 - 156
Roche Accu-Chek Advantage/Comp/GTS	56	249.9	9.6	3.8	248	221 - 279	55	96.4	4.0	4.1	96	84 - 109
Roche Accu-Chek Aviva	34	254.0	9.6	3.8	255	225 - 283	34	112.6	4.3	3.8	113	99 - 126
Roche Accu-Chek Inform	46	255.5	9.6	3.8	255	226 - 285	46	97.8	3.8	3.9	98	86 - 110

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-3						Specimen WBG-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	37	250.3	41.2	16.5	258	126 - 375	36	51.5	8.1	15.8	51	27 - 76
Abbott FreeStyle Lite	1	-	-	-	270	126 - 375	1	-	-	-	65	27 - 76
Bayer Contour	7	-	-	-	193	126 - 375	7	-	-	-	43	27 - 76
Home Diagnostics TrueTrack / TrueBalance	2	-	-	-	585	Not graded	2	-	-	-	185	Not graded
Lifescan One Touch Ultra/2/Mini	14	265.4	17.4	6.6	265	213 - 318	14	51.5	2.7	5.2	52	43 - 60
Roche Accu-Chek												
Advantage/Comp/GTS	6	-	-	-	232	126 - 375	6	-	-	-	46	27 - 76
Roche Accu-Chek Aviva	2	-	-	-	225	126 - 375	2	-	-	-	58	27 - 76
Specimen WBG-5												
All Method	36	332.9	36.5	11.0	341	223 - 443						
Abbott FreeStyle Lite	1	-	-	-	281	223 - 443						
Bayer Contour	7	-	-	-	288	223 - 443						
Lifescan One Touch Ultra/2/Mini	14	358.6	23.3	6.5	359	288 - 429						
Roche Accu-Chek												
Advantage/Comp/GTS	6	-	-	-	323	223 - 443						
Roche Accu-Chek Aviva	2	-	-	-	316	223 - 443						

Fructosamine (mmol/L)

<u>Method</u>	Specimen FR-1						Specimen FR-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2.57	0.33	12.8	2.7	1.58 - 3.56	5	1.04	0.14	13.5	1.1	0.62 - 1.46

Fructosamine (μmol/L)

<u>Method</u>	Specimen FR-1						Specimen FR-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	1097.4	452.7	41.3	1075	0 - 2456	8	460.0	178.6	38.8	446	0 - 996
Roche Integra	5	1042.4	127.6	12.2	986	659 - 1426	5	444.4	23.9	5.4	442	372 - 517

d-Dimer (ng/mL)

One participant reported results for d-Dimer. The vendor mean assay values for specimens DMR-1 and DMR-2 are: 29.2 ng/mL and 14.2 ng/mL, respectively.

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