MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Chemistry
MLE-M1

ACP | Medical Laboratory Evaluation

Total Commitment to Education and Service
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EVALUATION CRITERIA

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

Acetaminophen	± 3 SD or 10% *
Acetone	80% Consensus
Albumin	± 10%
Alcohol	± 25%
Alpha-fetoprotein	± 3 SD
Alkaline Phosphatase	± 30%
ALT (SGPT)	± 20%
Ammonia	± 2 SD or 5% *
Amylase	± 30%
Anti-Microsomal Antibody	± 2 SD
Anti-Thyroglobulin Antibody	± 2 SD
Apoliprotein A1	± 30%
Apoliprotein B	± 25%
AST (SGOT)	± 20%
B-Type Natriuretic Peptide (BNP)	± 2 SD or 20% *
Beta-2 Microglobulin	± 3 SD
Bilirubin, Direct	± 2 SD
Bilirubin, Total	± 0.4 mg/dL or 20% *
Bilirubin, Neonatal (Total)	± 0.4 mg/dL or 20% *
C-Peptide	± 2 SD
CA 125	± 30%
CA 15-3	± 3 SD
CA 19-9	± 3 SD
CA 27/29	± 3 SD
Calcium	± 1.0 mg/dL
Calcium, Ionized	± 3 SD
Carbamazepine	± 25%
CEA	± 1.2 ng/mL 30%
Chloride	± 5%
Cholesterol	± 10%
CK-MB (Quantitative)	± 3 SD
CO_2	± 20%
Cortisol	± 25%
Creatine Kinase	± 30%
Creatinine (Serum)	± 0.3 mg/dL or 15% *
Creatinine (Urine)	± 17%
D-Dimer	± 2 SD or 30% *
DHEA-S	± 6 µg/dL or 15% *
Digoxin	± 0.2 mg/dL or 20% *
Estradiol	± 2 SD
Ferritin	± 30%
Folate	± 0.9 ng/mL or 30%*
Fructosamine (mmol/L)	± 0.45 or 30% *
Fructosamine (µmol/L)	± 45 or 30% *
FSH	± 25%
Gentamicin	± 25%
GGT	± 2 SD or 20% *
Glucose, Serum	± 6 mg/dL or 10% *
Glucose, Whole Blood	± 12 mg/dL or 20% *
Glycohemoglobin	± 10%
HDL Cholesterol	± 30%
HCG, Serum—Qualitative	80% Consensus
HCG, Serum—Quantitative	± 3 SD
Hematocrit	± 6%
Hemoglobin	± 7%
Homocysteine	± 20%
Insulin	± 2 SD
Iron	± 20%
Lactate Dehydrogenase	± 20%
Lactic Acid	± 0.4 mmol/L or 3 SD *
LDL Cholesterol	± 2 SD or 30% *
Lipase	± 30%
LH	± 2 SD
Lithium	± 0.3 mmol/L or 20% *
Magnesium	± 25%
Myoglobin	± 30%
NT-proBNP	± 2 SD or 20% *
Parathyroid Hormone	± 2 SD
Phenobarbital	± 20%
Phenytoin	± 25%
Phosphorus	± 0.3 mg/dL or 10.7% *
Potassium	± 0.5 mmol/L
Progesterone	± 30%
Prolactin	± 3.6 ng/mL or 30% *
Protein, Total (Serum)	± 10%
Protein, Total (Urine)	± 44%
PSA	± 0.9 ng/mL or 30% *
PSA, Free	± 0.9 ng/mL or 30% *
pCO_2	± 5 mmHg or 8% *
pH	± 0.04
pO2	± 3 SD
Salicylate	± 3 SD or 10% *
Sodium	± 4.0 mmol/L
T_3 Uptake (% Uptake)	± 3 SD
T3, Free	± 3 SD
T4, Free	± 3 SD
tCO_2	± 20%
Testosterone	± 30%
Theophylline	± 25%
Thyroglobulin	± 2SD
Thyroxine, Total T_4	± 1.0 µg/dL or 20% *
TIBC	± 2 SD or 20% *
Transferrin	± 7%
Triglyceride	± 25%
Triiodothyronine, Total T_3	± 3 SD
Troponin I	± 2SD or 30% *
Troponin T	± 30%
TSH	± 3 SD
UIBC	± 2 SD or 20% *
Urea Nitrogen	± 2.0 mg/dL or 9% *
Uric Acid	± 17%
Urine Drug Screen	80% Consensus
Valproic Acid	± 25%
Vancomycin	± 3 SD or 10% *
Vitamin B_{12}	± 30%
Vitamin D	± 2SD
Troponin I	± 2SD or 30% *
Troponin T	± 30%

*Whichever is greater

Sodium (mmol/L)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	86	126.1	0.5	0.4	126	122 - 131	88	148.4	0.8	0.5	148	144 - 153
All i-STAT Instruments	86	126.1	0.5	0.4	126	122 - 131	88	148.4	0.8	0.5	148	144 - 153
i-STAT - waived	79	126.1	0.6	0.5	126	122 - 131	78	148.5	0.7	0.5	149	144 - 153
	Specimen IST-3						**Specimen IST-4**					
All Method	76	168.6	0.8	0.5	169	164 - 173	76	149.4	0.7	0.4	150	145 - 154
All i-STAT Instruments	76	168.6	0.8	0.5	169	164 - 173	76	149.4	0.7	0.4	150	145 - 154
i-STAT - waived	67	168.6	0.8	0.5	169	164 - 173	67	149.5	0.7	0.4	150	145 - 154
	Specimen IST-5											
All Method	74	141.3	0.6	0.4	141	137 - 146						
All i-STAT Instruments	74	141.3	0.6	0.4	141	137 - 146						
i-STAT - waived	65	141.3	0.6	0.4	141	137 - 146						

Potassium (mmol/L)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	89	2.72	0.04	1.3	2.7	2.2 - 3.3	89	4.19	0.03	0.8	4.2	3.6 - 4.7
All i-STAT Instruments	89	2.72	0.04	1.3	2.7	2.2 - 3.3	89	4.19	0.03	0.8	4.2	3.6 - 4.7
i-STAT - waived	81	2.72	0.04	1.4	2.7	2.2 - 3.3	81	4.19	0.03	0.8	4.2	3.6 - 4.7
	Specimen IST-3						**Specimen IST-4**					
All Method	77	6.83	0.06	0.9	6.8	6.3 - 7.4	77	6.15	0.06	0.9	6.2	5.6 - 6.7
All i-STAT Instruments	77	6.83	0.06	0.9	6.8	6.3 - 7.4	77	6.15	0.06	0.9	6.2	5.6 - 6.7
i-STAT - waived	69	6.83	0.06	0.8	6.8	6.3 - 7.4	69	6.16	0.06	0.9	6.2	5.6 - 6.7
	Specimen IST-5											
All Method	77	3.82	0.04	1.0	3.8	3.3 - 4.4						
All i-STAT Instruments	77	3.82	0.04	1.0	3.8	3.3 - 4.4						
i-STAT - waived	69	3.82	0.04	1.1	3.8	3.3 - 4.4						

Chloride (mmol/L)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	84	76.2	0.7	0.9	76	72 - 80	86	83.5	0.9	1.1	83	79 - 88
All i-STAT Instruments	84	76.2	0.7	0.9	76	72 - 80	86	83.5	0.9	1.1	83	79 - 88
i-STAT - waived	77	76.1	0.7	1.0	76	72 - 80	79	83.5	0.9	1.1	83	79 - 88
	Specimen IST-3						**Specimen IST-4**					
All Method	73	106.3	0.9	0.9	106	100 - 112	75	104.5	0.9	0.9	104	99 - 110
All i-STAT Instruments	73	106.3	0.9	0.9	106	100 - 112	75	104.5	0.9	0.9	104	99 - 110
i-STAT - waived	65	106.2	0.9	0.8	106	100 - 112	67	104.5	0.9	0.9	104	99 - 110
	Specimen IST-5											
All Method	74	86.5	0.9	1.0	86	82 - 91						
All i-STAT Instruments	74	86.5	0.9	1.0	86	82 - 91						
i-STAT - waived	66	86.5	0.9	1.0	86	82 - 91						

tCO_2 (mmol/L)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	78	23.6	1.0	4.1	24	18 - 29	79	21.2	0.8	3.9	21	16 - 26
All i-STAT Instruments	78	23.6	1.0	4.1	24	18 - 29	79	21.2	0.8	3.9	21	16 - 26
i-STAT - waived	71	23.6	0.9	4.0	24	18 - 29	72	21.2	0.8	4.0	21	16 - 26
	Specimen IST-3						**Specimen IST-4**					
All Method	70	24.3	1.1	4.7	24	19 - 30	72	17.4	0.8	4.6	17	13 - 21
All i-STAT Instruments	70	24.3	1.1	4.7	24	19 - 30	72	17.4	0.8	4.6	17	13 - 21
i-STAT - waived	63	24.3	1.1	4.7	24	19 - 30	65	17.4	0.8	4.7	17	13 - 21
	Specimen IST-5											
All Method	70	24.1	1.0	4.3	24	19 - 29						
All i-STAT Instruments	70	24.1	1.0	4.3	24	19 - 29						
i-STAT - waived	61	24.2	0.8	3.5	24	19 - 30						

Urea Nitrogen (BUN) (mg/dL)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	84	68.9	1.3	1.9	69	62 - 76	85	37.1	0.6	1.7	37	33 - 41
All i-STAT Instruments	84	68.9	1.3	1.9	69	62 - 76	85	37.1	0.6	1.7	37	33 - 41
i-STAT - waived	77	69.0	1.4	2.0	69	62 - 76	77	37.1	0.6	1.6	37	33 - 41
	Specimen IST-3						**Specimen IST-4**					
All Method	76	17.2	0.4	2.3	17	15 - 20	76	22.0	0.4	1.9	22	19 - 24
All i-STAT Instruments	76	17.2	0.4	2.3	17	15 - 20	76	22.0	0.4	1.9	22	19 - 24
i-STAT - waived	68	17.1	0.4	2.2	17	15 - 20	68	22.0	0.4	2.0	22	19 - 24
	Specimen IST-5											
All Method	74	62.8	1.1	1.8	63	57 - 69						
All i-STAT Instruments	74	62.8	1.1	1.8	63	57 - 69						
i-STAT - waived	66	62.9	1.0	1.6	63	57 - 69						

Glucose (mg/dL)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	87	177.0	1.4	0.8	177	159 - 195	85	129.1	1.4	1.1	129	116 - 142
All i-STAT Instruments	87	177.0	1.4	0.8	177	159 - 195	85	129.1	1.4	1.1	129	116 - 142
i-STAT - waived	79	177.0	1.4	0.8	177	159 - 195	77	129.1	1.4	1.1	129	116 - 142
	Specimen IST-3						**Specimen IST-4**					
All Method	73	69.3	0.9	1.3	69	62 - 77	74	84.2	0.8	0.9	84	75 - 93
All i-STAT Instruments	73	69.3	0.9	1.3	69	62 - 77	74	84.2	0.8	0.9	84	75 - 93
i-STAT - waived	65	69.3	0.9	1.2	69	62 - 77	66	84.2	0.7	0.9	84	75 - 93
	Specimen IST-5											
All Method	72	145.2	0.9	0.6	145	130 - 160						
All i-STAT Instruments	72	145.2	0.9	0.6	145	130 - 160						
i-STAT - waived	65	145.2	0.9	0.6	145	130 - 160						

Hematocrit (percent)

Instrument	Specimen IST-1 Labs	Mean	SD	CV	Median	Range	Specimen IST-2 Labs	Mean	SD	CV	Median	Range
All Method	21	20.3	0.5	2.3	20	19 - 22	21	36.0	0.8	2.2	36	33 - 39
All i-STAT Instruments	21	20.3	0.5	2.3	20	19 - 22	21	36.0	0.8	2.2	36	33 - 39
i-STAT - waived	19	20.3	0.5	2.2	20	19 - 22	19	35.9	0.8	2.2	36	33 - 39

Instrument	Specimen IST-3 Labs	Mean	SD	CV	Median	Range	Specimen IST-4 Labs	Mean	SD	CV	Median	Range
All Method	13	37.9	0.8	2.0	38	35 - 41	13	28.1	0.5	1.8	28	26 - 30
All i-STAT Instruments	13	37.9	0.8	2.0	38	35 - 41	13	28.1	0.5	1.8	28	26 - 30
i-STAT - waived	11	37.9	0.7	1.8	38	35 - 41	11	28.0	0.4	1.6	28	26 - 30

Instrument	Specimen IST-5 Labs	Mean	SD	CV	Median	Range
All Method	12	25.3	0.5	1.9	25	23 - 27
All i-STAT Instruments	12	25.3	0.5	1.9	25	23 - 27
i-STAT - waived	11	25.4	0.5	2.0	25	23 - 27

Hemoglobin (g/dL)

Instrument	Specimen IST-1 Labs	Mean	SD	CV	Median	Range	Specimen IST-2 Labs	Mean	SD	CV	Median	Range
All Method	21	6.89	0.14	2.0	6.8	6.4 - 7.4	21	12.20	0.27	2.2	12.2	11.3 - 13.1
All i-STAT Instruments	21	6.89	0.14	2.0	6.8	6.4 - 7.4	21	12.20	0.27	2.2	12.2	11.3 - 13.1
i-STAT - waived	19	6.88	0.14	2.0	6.8	6.3 - 7.4	19	12.20	0.26	2.1	12.2	11.3 - 13.1

Instrument	Specimen IST-3 Labs	Mean	SD	CV	Median	Range	Specimen IST-4 Labs	Mean	SD	CV	Median	Range
All Method	13	12.90	0.26	2.1	12.9	11.9 - 13.9	13	9.54	0.18	1.9	9.5	8.8 - 10.3
All i-STAT Instruments	13	12.90	0.26	2.1	12.9	11.9 - 13.9	13	9.54	0.18	1.9	9.5	8.8 - 10.3
i-STAT - waived	11	12.89	0.24	1.9	12.9	11.9 - 13.8	11	9.51	0.16	1.7	9.5	8.8 - 10.2

Instrument	Specimen IST-5 Labs	Mean	SD	CV	Median	Range
All Method	12	8.60	0.15	1.7	8.5	7.9 - 9.3
All i-STAT Instruments	12	8.60	0.15	1.7	8.5	7.9 - 9.3
i-STAT - waived	11	8.61	0.15	1.8	8.5	8.0 - 9.3

Creatinine (mg/dL)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	98	3.97	0.11	2.9	4.0	3.3 - 4.6	99	1.78	0.05	2.9	1.8	1.4 - 2.1
All i-STAT Instruments	98	3.97	0.11	2.9	4.0	3.3 - 4.6	99	1.78	0.05	2.9	1.8	1.4 - 2.1
i-STAT - waived	91	3.97	0.11	2.9	4.0	3.3 - 4.6	91	1.78	0.05	3.0	1.8	1.4 - 2.1
	Specimen IST-3						**Specimen IST-4**					
All Method	77	0.83	0.05	5.9	0.8	0.5 - 1.2	77	1.18	0.04	3.5	1.2	0.8 - 1.5
All i-STAT Instruments	77	0.83	0.05	5.9	0.8	0.5 - 1.2	77	1.18	0.04	3.5	1.2	0.8 - 1.5
i-STAT - waived	69	0.83	0.05	6.0	0.8	0.5 - 1.2	69	1.18	0.04	3.6	1.2	0.8 - 1.5
	Specimen IST-5											
All Method	76	6.00	0.18	2.9	6.0	5.1 - 7.0						
All i-STAT Instruments	76	6.00	0.18	2.9	6.0	5.1 - 7.0						
i-STAT - waived	69	5.99	0.18	3.0	6.0	5.0 - 6.9						

Ionized Calcium (mmol/L)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	76	2.114	0.020	0.9	2.11	2.05 - 2.18	78	1.511	0.015	1.0	1.51	1.46 - 1.56
All i-STAT Instruments	76	2.114	0.020	0.9	2.11	2.05 - 2.18	78	1.511	0.015	1.0	1.51	1.46 - 1.56
i-STAT - waived	70	2.115	0.020	1.0	2.11	2.05 - 2.18	72	1.512	0.015	1.0	1.51	1.46 - 1.56
	Specimen IST-3						**Specimen IST-4**					
All Method	69	0.961	0.011	1.1	0.96	0.92 - 1.00	69	0.823	0.010	1.2	0.82	0.79 - 0.86
All i-STAT Instruments	69	0.961	0.011	1.1	0.96	0.92 - 1.00	69	0.823	0.010	1.2	0.82	0.79 - 0.86
i-STAT - waived	63	0.961	0.011	1.1	0.96	0.92 - 1.00	63	0.823	0.010	1.2	0.82	0.79 - 0.86
	Specimen IST-5											
All Method	67	1.821	0.018	1.0	1.82	1.76 - 1.88						
All i-STAT Instruments	67	1.821	0.018	1.0	1.82	1.76 - 1.88						
i-STAT - waived	62	1.822	0.020	1.1	1.82	1.76 - 1.89						

Albumin (g/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	301	1.35	0.20	15.1	1.4	1.2 - 1.5	300	2.12	0.29	13.6	2.2	1.9 - 2.4
All Bromocresol Green Reagents	203	1.47	0.09	5.9	1.5	1.3 - 1.7	202	2.29	0.12	5.2	2.3	2.0 - 2.6
All Bromocresol Purple Reagents	95	1.10	0.16	14.1	1.0	0.9 - 1.3	95	1.74	0.13	7.5	1.7	1.5 - 2.0
Abaxis Piccolo												
Abaxis Piccolo - waived	21	1.30	0.07	5.7	1.3	1.1 - 1.5	18	1.90	0.00	0.0	1.9	1.7 - 2.1
All Chemistry Instruments	29	1.31	0.07	5.0	1.3	1.1 - 1.5	27	1.91	0.03	1.4	1.9	1.7 - 2.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	49	1.50	0.05	3.3	1.5	1.3 - 1.7	49	2.32	0.10	4.1	2.3	2.0 - 2.6
Beckman AU												
Beckman AU systems	27	1.36	0.08	5.8	1.4	1.2 - 1.5	26	2.24	0.06	2.6	2.2	2.0 - 2.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	1.52	0.07	4.4	1.5	1.3 - 1.7	20	2.34	0.11	4.7	2.3	2.1 - 2.6
Roche Integra												
Roche Integra	26	1.44	0.05	3.4	1.4	1.2 - 1.6	26	2.33	0.07	3.2	2.3	2.1 - 2.6
All Chemistry Instruments	27	1.44	0.05	3.4	1.4	1.2 - 1.6	27	2.33	0.07	3.1	2.3	2.0 - 2.6
Siemens Healthcare												
Siemens Dimension	52	0.98	0.05	5.2	1.0	0.8 - 1.1	52	1.65	0.06	3.5	1.7	1.4 - 1.9
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	1.56	0.08	5.4	1.6	1.4 - 1.8	18	2.37	0.12	5.0	2.4	2.1 - 2.7
All Chemistry Instruments	19	1.56	0.08	5.4	1.5	1.4 - 1.8	19	2.37	0.11	4.8	2.4	2.1 - 2.7
VITROS												
VITROS 250,350,500,700,750,950	30	1.41	0.04	2.6	1.4	1.2 - 1.6	30	2.14	0.07	3.4	2.1	1.9 - 2.4
All Chemistry Instruments	36	1.41	0.04	3.1	1.4	1.2 - 1.6	36	2.16	0.08	3.9	2.2	1.9 - 2.4

Albumin (g/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	288	2.90	0.38	13.0	3.1	2.6 - 3.2	289	2.92	0.37	12.7	3.1	2.6 - 3.3
All Bromocresol Green Reagents	204	3.13	0.13	4.0	3.1	2.8 - 3.5	203	3.14	0.14	4.3	3.2	2.8 - 3.5
All Bromocresol Purple Reagents	82	2.33	0.09	3.8	2.3	2.1 - 2.6	83	2.38	0.11	4.8	2.4	2.1 - 2.7
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	2.4	2.1 - 2.7	9	-	-	-	2.5	2.2 - 2.8
All Chemistry Instruments	17	2.42	0.07	2.7	2.4	2.1 - 2.7	17	2.54	0.05	2.0	2.5	2.2 - 2.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	50	3.12	0.11	3.5	3.1	2.8 - 3.5	49	3.15	0.09	2.9	3.2	2.8 - 3.5
Beckman AU												
Beckman AU systems	26	3.08	0.06	2.1	3.1	2.7 - 3.4	26	3.12	0.08	2.7	3.1	2.8 - 3.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	3.07	0.11	3.7	3.1	2.7 - 3.4	20	3.11	0.11	3.7	3.1	2.7 - 3.5
Roche Integra												
Roche Integra	26	3.18	0.08	2.6	3.2	2.8 - 3.5	26	3.23	0.08	2.6	3.2	2.9 - 3.6
All Chemistry Instruments	27	3.17	0.08	2.6	3.2	2.8 - 3.5	27	3.23	0.08	2.6	3.2	2.9 - 3.6
Siemens Healthcare												
Siemens Dimension	51	2.30	0.06	2.7	2.3	2.0 - 2.6	52	2.32	0.06	2.7	2.3	2.0 - 2.6
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	3.21	0.18	5.6	3.2	2.8 - 3.6	18	3.19	0.17	5.2	3.2	2.8 - 3.6
All Chemistry Instruments	19	3.22	0.18	5.5	3.2	2.8 - 3.6	19	3.20	0.16	5.1	3.2	2.8 - 3.6
VITROS												
VITROS 250,350,500,700,750,950	30	3.04	0.10	3.2	3.0	2.7 - 3.4	30	2.98	0.09	3.2	3.0	2.6 - 3.3
All Chemistry Instruments	36	3.06	0.11	3.5	3.0	2.7 - 3.4	36	3.00	0.10	3.3	3.0	2.7 - 3.3

Albumin (g/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	289	4.40	0.55	12.4	4.6	3.9 - 4.9
All Bromocresol Green Reagents	203	4.73	0.20	4.1	4.7	4.2 - 5.2
All Bromocresol Purple Reagents	83	3.59	0.11	3.1	3.6	3.2 - 4.0
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	3.5	3.2 - 4.0
All Chemistry Instruments	17	3.57	0.07	1.9	3.6	3.2 - 4.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	50	4.65	0.16	3.5	4.7	4.1 - 5.2
Beckman AU						
Beckman AU systems	26	4.70	0.10	2.1	4.7	4.2 - 5.2
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	4.50	0.17	3.7	4.5	4.0 - 5.0
Roche Integra						
Roche Integra	26	4.80	0.13	2.7	4.8	4.3 - 5.3
All Chemistry Instruments	27	4.80	0.13	2.7	4.8	4.3 - 5.3
Siemens Healthcare						
Siemens Dimension	52	3.58	0.10	2.8	3.6	3.2 - 4.0
Vital Diagnostics						
Vital Diagnostics Envoy 500	18	4.70	0.27	5.7	4.7	4.2 - 5.2
All Chemistry Instruments	19	4.73	0.29	6.1	4.7	4.2 - 5.2
VITROS						
VITROS 250,350,500,700,750,950	29	4.79	0.13	2.7	4.8	4.3 - 5.3
All Chemistry Instruments	36	4.83	0.16	3.4	4.8	4.3 - 5.4

Bilirubin, Direct (mg/dL)

Reagent/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	196	0.10	0.06	59.4	0.1	0.0 - 0.3	201	1.32	0.32	24.0	1.2	0.6 - 2.0
All Alfa Wassermann Reagents	28	0.19	0.03	16.6	0.2	0.1 - 0.3	28	1.76	0.11	6.2	1.8	1.5 - 2.0
All Roche Integra/c111/c301/c501 Reagents	27	0.05	0.06	124.0	0.0	0.0 - 0.2	29	1.05	0.07	7.0	1.1	0.9 - 1.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	28	0.19	0.03	16.6	0.2	0.1 - 0.3	28	1.76	0.11	6.2	1.8	1.5 - 2.0
Beckman AU												
Beckman AU systems	24	0.10	0.00	0.0	0.1	0.1 - 0.1	24	1.59	0.10	6.2	1.6	1.3 - 1.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	0.10	0.00	0.0	0.1	0.1 - 0.1	17	1.56	0.16	10.2	1.6	1.2 - 1.9
Roche Integra												
Roche Integra	20	0.04	0.05	125.7	0.0	0.0 - 0.2	21	1.04	0.07	6.5	1.0	0.9 - 1.2
All Chemistry Instruments	21	0.04	0.05	130.6	0.0	0.0 - 0.2	22	1.04	0.07	7.0	1.0	0.8 - 1.2
Siemens Healthcare												
Siemens Dimension	39	0.09	0.04	45.0	0.1	0.0 - 0.2	40	1.10	0.08	7.1	1.1	0.9 - 1.3
All Chemistry Instruments	41	0.09	0.04	43.7	0.1	0.0 - 0.2	42	1.10	0.08	7.2	1.1	0.9 - 1.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	11	0.10	0.00	0.0	0.1	0.1 - 0.1	11	1.57	0.11	7.0	1.6	1.3 - 1.8
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	17	0.06	0.08	135.2	0.0	0.0 - 0.3	17	0.92	0.14	15.6	0.9	0.6 - 1.3
All Chemistry Instruments	22	0.07	0.09	121.4	0.1	0.0 - 0.3	22	0.98	0.18	18.2	0.9	0.6 - 1.4

Reagent/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	200	2.44	0.50	20.3	2.3	1.4 - 3.5	199	0.74	0.23	30.9	0.7	0.2 - 1.2
All Alfa Wassermann Reagents	28	3.09	0.22	7.1	3.1	2.6 - 3.6	28	1.10	0.08	7.2	1.1	0.9 - 1.3
All Roche Integra/c111/c301/c501 Reagents	29	1.98	0.12	6.0	2.0	1.7 - 2.3	29	0.57	0.06	9.8	0.6	0.4 - 0.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	28	3.09	0.22	7.1	3.1	2.6 - 3.6	28	1.10	0.08	7.2	1.1	0.9 - 1.3
Beckman AU												
Beckman AU systems	24	2.88	0.16	5.6	2.9	2.5 - 3.2	24	0.90	0.06	6.9	0.9	0.7 - 1.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	2.86	0.26	9.3	2.9	2.3 - 3.4	17	0.89	0.09	9.7	0.9	0.7 - 1.1
Roche Integra												
Roche Integra	21	1.99	0.11	5.5	2.0	1.7 - 2.3	21	0.56	0.06	10.5	0.6	0.4 - 0.7
All Chemistry Instruments	22	1.98	0.12	6.2	2.0	1.7 - 2.3	22	0.56	0.06	10.6	0.6	0.4 - 0.7
Siemens Healthcare												
Siemens Dimension	41	2.00	0.15	7.3	2.0	1.7 - 2.3	40	0.57	0.06	11.0	0.6	0.4 - 0.7
All Chemistry Instruments	43	2.00	0.14	7.2	2.0	1.7 - 2.3	42	0.57	0.06	10.8	0.6	0.4 - 0.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	11	2.85	0.19	6.7	2.9	2.4 - 3.3	11	0.89	0.05	6.1	0.9	0.7 - 1.0
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	17	2.18	0.25	11.3	2.2	1.6 - 2.7	17	0.50	0.19	37.4	0.5	0.1 - 0.9
All Chemistry Instruments	22	2.27	0.30	13.3	2.2	1.6 - 2.9	22	0.56	0.21	37.3	0.6	0.1 - 1.0

Bilirubin, Direct (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	199	1.44	0.34	24.0	1.4	0.7 - 2.2
All Alfa Wassermann Reagents	28	1.91	0.13	6.6	1.9	1.6 - 2.2
All Roche Integra/c111/c301/c501 Reagents	29	1.10	0.07	6.7	1.1	0.9 - 1.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	28	1.91	0.13	6.6	1.9	1.6 - 2.2
Beckman AU						
Beckman AU systems	24	1.70	0.11	6.4	1.7	1.4 - 2.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	1.68	0.15	9.1	1.7	1.3 - 2.0
Roche Integra						
Roche Integra	20	1.11	0.04	4.0	1.1	1.0 - 1.2
All Chemistry Instruments	22	1.11	0.08	6.8	1.1	0.9 - 1.3
Siemens Healthcare						
Siemens Dimension	39	1.11	0.08	7.0	1.1	0.9 - 1.3
All Chemistry Instruments	41	1.11	0.08	7.0	1.1	0.9 - 1.3
Vital Diagnostics						
Vital Diagnostics Envoy 500	11	1.66	0.12	7.2	1.7	1.4 - 2.0
VITROS-BuBc and Bc						
VITROS 250,350,500,700,750,950	17	1.46	0.29	19.8	1.4	0.8 - 2.1
All Chemistry Instruments	22	1.50	0.29	19.2	1.5	0.9 - 2.1

Bilirubin, Total (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	296	0.29	0.11	38.5	0.3	0.0 - 0.7	2.77	0.30	10.8	2.7	2.2 - 3.4	2.77
All Alfa Wassermann Reagents	47	0.42	0.04	10.4	0.4	0.0 - 0.9	3.19	0.14	4.5	3.2	2.5 - 3.9	3.19
All Horiba Pentra Reagents	20	0.23	0.05	20.4	0.2	0.0 - 0.7	2.73	0.20	7.3	2.7	2.1 - 3.3	2.73
All Roche T. bili Special Reagents	18	0.20	0.00	0.0	0.2	0.0 - 0.6	2.43	0.12	4.9	2.4	1.9 - 3.0	2.43
All Vital Diagnostics Reagents	19	0.24	0.05	20.9	0.2	0.0 - 0.7	2.55	0.21	8.2	2.6	2.0 - 3.1	2.55
Abaxis Piccolo												
Abaxis Piccolo - waived	22	0.45	0.07	16.6	0.4	0.0 - 0.9	2.58	0.22	8.5	2.6	2.0 - 3.1	2.58
All Chemistry Instruments	29	0.43	0.07	16.6	0.4	0.0 - 0.9	2.60	0.21	7.9	2.6	2.0 - 3.2	2.60
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	47	0.42	0.04	10.4	0.4	0.0 - 0.9	3.19	0.14	4.5	3.2	2.5 - 3.9	3.19
Beckman AU												
Beckman AU systems	25	0.30	0.00	0.0	0.3	0.0 - 0.7	2.97	0.15	4.9	3.0	2.3 - 3.6	2.97
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	0.23	0.05	20.0	0.2	0.0 - 0.7	2.73	0.21	7.5	2.7	2.1 - 3.3	2.73
Roche Integra												
Roche Integra	10	0.20	0.00	0.0	0.2	0.0 - 0.6	2.46	0.17	7.1	2.5	1.9 - 3.0	2.46
All Chemistry Instruments	11	0.20	0.00	0.0	0.2	0.0 - 0.6	2.47	0.17	6.8	2.5	1.9 - 3.0	2.47
Roche Integra-T. bili Special												
Roche Integra	12	0.20	0.04	21.3	0.2	0.0 - 0.6	2.39	0.12	5.2	2.4	1.9 - 2.9	2.39
Siemens Healthcare												
Siemens Dimension	51	0.20	0.04	21.0	0.2	0.0 - 0.7	2.67	0.15	5.5	2.7	2.1 - 3.3	2.67
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	0.23	0.05	20.5	0.2	0.0 - 0.7	2.51	0.18	7.3	2.6	2.0 - 3.1	2.51
All Chemistry Instruments	19	0.24	0.05	20.9	0.2	0.0 - 0.7	2.55	0.21	8.2	2.6	2.0 - 3.1	2.55
VITROS - TBIL												
VITROS 250,350,500,700,750,950	29	0.21	0.09	44.6	0.2	0.0 - 0.7	2.81	0.24	8.6	2.8	2.2 - 3.4	2.81
All Chemistry Instruments	35	0.20	0.09	45.4	0.2	0.0 - 0.6	2.83	0.23	8.2	2.8	2.2 - 3.4	2.83

Bilirubin, Total (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	288	5.28	0.55	10.4	5.3	4.2 - 6.4	283	1.55	0.21	13.9	1.5	1.1 - 2.0
All Alfa Wassermann Reagents	47	5.96	0.26	4.4	5.9	4.7 - 7.2	47	1.87	0.09	4.9	1.9	1.4 - 2.3
All Horiba Pentra Reagents	21	5.20	0.32	6.1	5.2	4.1 - 6.3	21	1.46	0.10	6.7	1.5	1.0 - 1.9
All Roche T. bili Special Reagents	21	4.58	0.17	3.8	4.6	3.6 - 5.5	20	1.32	0.07	5.3	1.3	0.9 - 1.8
All Vital Diagnostics Reagents	20	4.82	0.41	8.6	4.9	3.8 - 5.8	19	1.35	0.13	9.4	1.3	0.9 - 1.8
Abaxis Piccolo												
Abaxis Piccolo - waived	10	4.80	0.15	3.1	4.8	3.8 - 5.8	10	1.50	0.11	7.0	1.5	1.1 - 1.9
All Chemistry Instruments	17	4.81	0.18	3.7	4.8	3.8 - 5.8	17	1.50	0.09	5.8	1.5	1.1 - 1.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	47	5.96	0.26	4.4	5.9	4.7 - 7.2	47	1.87	0.09	4.9	1.9	1.4 - 2.3
Beckman AU												
Beckman AU systems	27	5.54	0.23	4.1	5.6	4.4 - 6.7	27	1.67	0.08	4.9	1.7	1.2 - 2.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	5.20	0.33	6.3	5.2	4.1 - 6.3	20	1.46	0.10	6.8	1.5	1.0 - 1.9
Roche Integra												
Roche Integra	11	4.72	0.29	6.1	4.7	3.7 - 5.7	11	1.30	0.13	9.7	1.3	0.9 - 1.7
All Chemistry Instruments	12	4.72	0.27	5.8	4.7	3.7 - 5.7	12	1.31	0.12	9.5	1.3	0.9 - 1.8
Roche Integra-T. bili Special												
Roche Integra	12	4.52	0.17	3.9	4.5	3.6 - 5.5	11	1.29	0.07	5.4	1.3	0.8 - 1.7
Siemens Healthcare												
Siemens Dimension	50	5.12	0.26	5.0	5.1	4.0 - 6.2	50	1.45	0.11	7.6	1.5	1.0 - 1.9
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	4.72	0.31	6.5	4.8	3.7 - 5.7	18	1.34	0.12	9.3	1.3	0.9 - 1.8
All Chemistry Instruments	20	4.82	0.41	8.6	4.9	3.8 - 5.8	19	1.35	0.13	9.4	1.3	0.9 - 1.8
VITROS - TBIL												
VITROS 250,350,500,700,750,950	29	5.61	0.41	7.2	5.6	4.4 - 6.8	29	1.53	0.15	9.9	1.5	1.1 - 2.0
All Chemistry Instruments	35	5.65	0.40	7.0	5.6	4.5 - 6.8	35	1.53	0.14	9.5	1.5	1.1 - 2.0

Bilirubin, Total (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	283	2.87	0.35	12.3	2.8	2.2 - 3.5
All Alfa Wassermann Reagents	47	3.37	0.15	4.5	3.3	2.6 - 4.1
All Horiba Pentra Reagents	21	2.71	0.15	5.6	2.7	2.1 - 3.3
All Roche T. bili Special Reagents	21	2.44	0.15	6.0	2.4	1.9 - 3.0
All Vital Diagnostics Reagents	19	2.51	0.16	6.5	2.5	2.0 - 3.1
Abaxis Piccolo						
Abaxis Piccolo - waived	10	2.75	0.11	3.9	2.8	2.2 - 3.3
All Chemistry Instruments	17	2.75	0.12	4.3	2.7	2.1 - 3.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	47	3.37	0.15	4.5	3.3	2.6 - 4.1
Beckman AU						
Beckman AU systems	26	2.90	0.11	4.0	2.9	2.3 - 3.5
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	2.71	0.15	5.7	2.7	2.1 - 3.3
Roche Integra						
Roche Integra	11	2.47	0.21	8.3	2.5	1.9 - 3.0
All Chemistry Instruments	12	2.48	0.20	8.0	2.5	1.9 - 3.0
Roche Integra-T. bili Special						
Roche Integra	12	2.36	0.11	4.6	2.3	1.8 - 2.9
Siemens Healthcare						
Siemens Dimension	51	2.77	0.19	6.9	2.8	2.2 - 3.4
Vital Diagnostics						
Vital Diagnostics Envoy 500	18	2.51	0.17	6.6	2.5	2.0 - 3.1
All Chemistry Instruments	19	2.51	0.16	6.5	2.5	2.0 - 3.1
VITROS - TBIL						
VITROS 250,350,500,700,750,950	28	3.13	0.23	7.4	3.2	2.5 - 3.8
All Chemistry Instruments	34	3.11	0.24	7.6	3.2	2.4 - 3.8

Calcium (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	307	9.80	0.30	3.1	9.8	8.8 - 10.9	304	11.91	0.33	2.7	11.9	10.9 - 13.0
All Arsenazo Methods	158	9.74	0.35	3.6	9.7	8.7 - 10.8	156	11.86	0.31	2.6	11.9	10.8 - 12.9
All CPC Methods	136	9.88	0.21	2.2	9.9	8.8 - 10.9	137	11.98	0.34	2.8	12.0	10.9 - 13.0
Abaxis Piccolo												
Abaxis Piccolo - waived	21	10.09	0.21	2.1	10.1	9.0 - 11.1	21	12.14	0.22	1.9	12.1	11.1 - 13.2
All Chemistry Instruments	29	10.11	0.24	2.4	10.2	9.1 - 11.2	29	12.16	0.20	1.7	12.1	11.1 - 13.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	50	9.79	0.30	3.0	9.8	8.7 - 10.8	48	11.82	0.22	1.9	11.8	10.8 - 12.9
Beckman AU												
Beckman AU systems	26	9.77	0.17	1.7	9.8	8.7 - 10.8	26	11.69	0.23	1.9	11.8	10.6 - 12.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	9.97	0.20	2.0	10.0	8.9 - 11.0	20	12.34	0.33	2.7	12.3	11.3 - 13.4
Roche Integra												
Roche Integra	26	9.89	0.21	2.1	9.9	8.8 - 10.9	26	12.05	0.27	2.3	12.1	11.0 - 13.1
All Chemistry Instruments	27	9.89	0.20	2.0	9.9	8.8 - 10.9	27	12.05	0.27	2.2	12.1	11.0 - 13.1
Siemens Healthcare												
Siemens Dimension	52	9.91	0.22	2.2	9.9	8.9 - 11.0	51	11.96	0.24	2.0	12.0	10.9 - 13.0
All Chemistry Instruments	53	9.90	0.22	2.3	9.9	8.9 - 11.0	52	11.96	0.25	2.1	12.0	10.9 - 13.0
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	9.40	0.34	3.6	9.4	8.4 - 10.4	18	11.48	0.46	4.0	11.5	10.4 - 12.5
All Chemistry Instruments	19	9.42	0.34	3.6	9.4	8.4 - 10.5	19	11.49	0.45	3.9	11.5	10.4 - 12.5
VITROS												
VITROS 250,350,500,700,750,950	30	9.56	0.27	2.9	9.6	8.5 - 10.6	30	11.86	0.29	2.5	11.9	10.8 - 12.9
All Chemistry Instruments	39	9.55	0.26	2.7	9.5	8.5 - 10.6	39	11.86	0.27	2.3	11.9	10.8 - 12.9

Calcium (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	290	13.92	0.43	3.1	13.9	12.9 - 15.0	294	8.66	0.26	3.0	8.7	7.6 - 9.7
All Arsenazo Methods	142	13.80	0.33	2.4	13.9	12.7 - 14.8	146	8.65	0.29	3.4	8.7	7.6 - 9.7
All CPC Methods	137	14.07	0.48	3.4	14.0	13.0 - 15.1	137	8.69	0.22	2.5	8.7	7.6 - 9.7
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	13.9	12.9 - 15.0	9	-	-	-	8.8	7.8 - 9.8
All Chemistry Instruments	17	13.94	0.30	2.2	13.9	12.9 - 15.0	17	8.80	0.15	1.7	8.8	7.8 - 9.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	48	13.77	0.25	1.8	13.7	12.7 - 14.8	48	8.82	0.19	2.2	8.8	7.8 - 9.9
Beckman AU												
Beckman AU systems	26	13.61	0.30	2.2	13.7	12.6 - 14.7	27	8.83	0.19	2.1	8.9	7.8 - 9.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	14.71	0.34	2.3	14.8	13.7 - 15.8	20	8.64	0.21	2.4	8.7	7.6 - 9.7
Roche Integra												
Roche Integra	26	14.22	0.33	2.3	14.3	13.2 - 15.3	26	8.67	0.20	2.3	8.6	7.6 - 9.7
All Chemistry Instruments	27	14.23	0.32	2.3	14.3	13.2 - 15.3	27	8.67	0.20	2.3	8.6	7.6 - 9.7
Siemens Healthcare												
Siemens Dimension	51	14.00	0.29	2.1	14.0	12.9 - 15.0	51	8.66	0.22	2.5	8.7	7.6 - 9.7
All Chemistry Instruments	52	13.99	0.29	2.1	14.0	12.9 - 15.0	52	8.65	0.22	2.6	8.7	7.6 - 9.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	13.48	0.53	3.9	13.4	12.4 - 14.5	18	8.43	0.29	3.5	8.5	7.4 - 9.5
All Chemistry Instruments	19	13.51	0.53	3.9	13.5	12.5 - 14.6	19	8.45	0.30	3.6	8.5	7.4 - 9.5
VITROS												
VITROS 250,350,500,700,750,950	29	13.90	0.34	2.4	13.9	12.9 - 15.0	30	8.40	0.21	2.5	8.4	7.4 - 9.4
All Chemistry Instruments	37	13.88	0.31	2.2	13.9	12.8 - 14.9	39	8.36	0.20	2.4	8.4	7.3 - 9.4

Calcium (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	295	7.61	0.31	4.1	7.6	6.6 - 8.7
All Arsenazo Methods	147	7.63	0.35	4.5	7.7	6.6 - 8.7
All CPC Methods	137	7.59	0.27	3.6	7.6	6.5 - 8.6
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	7.7	6.7 - 8.8
All Chemistry Instruments	17	7.78	0.18	2.3	7.8	6.7 - 8.8
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	50	7.79	0.28	3.6	7.8	6.7 - 8.8
Beckman AU						
Beckman AU systems	27	7.95	0.20	2.6	8.0	6.9 - 9.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	7.48	0.15	2.0	7.5	6.4 - 8.5
Roche Integra						
Roche Integra	26	7.56	0.22	2.9	7.6	6.5 - 8.6
All Chemistry Instruments	27	7.57	0.21	2.8	7.6	6.5 - 8.6
Siemens Healthcare						
Siemens Dimension	50	7.46	0.19	2.6	7.5	6.4 - 8.5
All Chemistry Instruments	51	7.46	0.19	2.6	7.5	6.4 - 8.5
Vital Diagnostics						
Vital Diagnostics Envoy 500	18	7.67	0.27	3.5	7.7	6.6 - 8.7
All Chemistry Instruments	19	7.67	0.26	3.4	7.7	6.6 - 8.7
VITROS						
VITROS 250,350,500,700,750,950	30	7.28	0.20	2.7	7.3	6.2 - 8.3
All Chemistry Instruments	39	7.23	0.21	2.9	7.3	6.2 - 8.3

Creatinine (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	307	0.61	0.08	13.3	0.6	0.3 - 1.0	304	2.96	0.16	5.5	3.0	2.5 - 3.5
All Roche Integra/c111/c301/c501 Reagents	36	0.55	0.07	12.7	0.5	0.2 - 0.9	36	2.84	0.17	5.9	2.8	2.4 - 3.3
Abaxis Piccolo												
Abaxis Piccolo - waived	21	0.60	0.11	18.8	0.6	0.2 - 0.9	21	3.10	0.19	6.0	3.1	2.6 - 3.6
All Chemistry Instruments	29	0.62	0.12	19.4	0.6	0.3 - 1.0	29	3.10	0.17	5.5	3.1	2.6 - 3.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	49	0.63	0.07	11.4	0.6	0.3 - 1.0	49	2.85	0.12	4.2	2.9	2.4 - 3.3
Beckman AU												
Beckman AU systems	27	0.58	0.04	7.3	0.6	0.2 - 0.9	27	2.96	0.06	2.2	3.0	2.5 - 3.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	0.67	0.07	9.8	0.7	0.3 - 1.0	20	2.92	0.15	5.3	2.9	2.4 - 3.4
Roche Integra												
Roche Integra	27	0.55	0.06	10.6	0.5	0.2 - 0.9	26	2.80	0.13	4.6	2.8	2.3 - 3.3
All Chemistry Instruments	28	0.55	0.06	10.5	0.5	0.2 - 0.9	28	2.83	0.16	5.6	2.8	2.4 - 3.3
Siemens Healthcare												
Siemens Dimension	51	0.60	0.08	13.2	0.6	0.3 - 1.0	50	3.07	0.10	3.3	3.1	2.6 - 3.6
All Chemistry Instruments	52	0.60	0.08	13.1	0.6	0.3 - 1.0	51	3.07	0.10	3.3	3.1	2.6 - 3.6
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	0.65	0.05	7.9	0.7	0.3 - 1.0	16	2.94	0.09	3.0	2.9	2.4 - 3.4
All Chemistry Instruments	20	0.66	0.08	12.4	0.7	0.3 - 1.0	19	2.94	0.16	5.4	2.9	2.5 - 3.4
VITROS - CREA												
VITROS 250,350,500,700,750,950	11	0.64	0.07	10.6	0.6	0.3 - 1.0	11	3.09	0.09	3.1	3.1	2.6 - 3.6
All Chemistry Instruments	12	0.63	0.07	10.3	0.6	0.3 - 1.0	12	3.09	0.09	2.9	3.1	2.6 - 3.6
VITROS - CRSC (DT)												
VITROS 250,350,500,700,750,950	17	0.62	0.06	9.0	0.6	0.3 - 1.0	17	3.11	0.09	2.9	3.1	2.6 - 3.6
All Chemistry Instruments	25	0.63	0.06	8.8	0.6	0.3 - 1.0	25	3.12	0.10	3.1	3.1	2.6 - 3.6

Creatinine (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	293	5.26	0.32	6.1	5.3	4.4 - 6.1	294	0.98	0.09	9.2	1.0	0.6 - 1.3
All Roche Integra/c111/c301/c501 Reagents	36	5.01	0.33	6.6	4.9	4.2 - 5.8	36	0.91	0.09	10.3	0.9	0.6 - 1.3
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	5.6	4.7 - 6.4	9	-	-	-	1.1	0.7 - 1.4
All Chemistry Instruments	17	5.55	0.10	1.8	5.6	4.7 - 6.4	17	1.08	0.09	8.4	1.1	0.7 - 1.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	48	4.95	0.20	4.0	5.0	4.2 - 5.7	49	0.98	0.07	6.9	1.0	0.6 - 1.3
Beckman AU												
Beckman AU systems	26	5.30	0.10	1.8	5.3	4.5 - 6.1	27	0.99	0.03	3.2	1.0	0.6 - 1.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	5.05	0.21	4.2	5.1	4.2 - 5.9	20	1.06	0.09	8.4	1.1	0.7 - 1.4
Roche Integra												
Roche Integra	26	4.92	0.25	5.1	4.9	4.1 - 5.7	27	0.91	0.08	8.8	0.9	0.6 - 1.3
All Chemistry Instruments	28	4.98	0.32	6.4	4.9	4.2 - 5.8	28	0.91	0.08	8.8	0.9	0.6 - 1.3
Siemens Healthcare												
Siemens Dimension	50	5.46	0.13	2.3	5.5	4.6 - 6.3	49	0.98	0.08	8.4	1.0	0.6 - 1.3
All Chemistry Instruments	51	5.46	0.13	2.3	5.5	4.6 - 6.3	50	0.98	0.08	8.3	1.0	0.6 - 1.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	5.36	0.36	6.8	5.3	4.5 - 6.2	18	1.03	0.08	7.3	1.0	0.7 - 1.4
All Chemistry Instruments	20	5.32	0.37	6.9	5.3	4.5 - 6.2	20	1.03	0.08	7.7	1.0	0.7 - 1.4
VITROS - CREA												
VITROS 250,350,500,700,750,950	11	5.57	0.17	3.0	5.5	4.7 - 6.5	11	0.92	0.04	4.4	0.9	0.6 - 1.3
All Chemistry Instruments	12	5.58	0.16	2.9	5.6	4.7 - 6.5	12	0.92	0.04	4.2	0.9	0.6 - 1.3
VITROS - CRSC (DT)												
VITROS 250,350,500,700,750,950	17	5.59	0.11	2.0	5.6	4.7 - 6.5	17	0.92	0.04	4.3	0.9	0.6 - 1.3
All Chemistry Instruments	24	5.66	0.16	2.8	5.7	4.8 - 6.6	25	0.95	0.10	10.1	0.9	0.6 - 1.3

Creatinine (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	294	1.30	0.14	10.5	1.3	1.0 - 1.7
All Roche Integra/c111/c301/c501 Reagents	36	1.23	0.12	10.0	1.2	0.9 - 1.6
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	1.5	1.1 - 1.8
All Chemistry Instruments	16	1.43	0.12	8.4	1.4	1.1 - 1.8
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	49	1.21	0.08	6.7	1.2	0.9 - 1.6
Beckman AU						
Beckman AU systems	26	1.38	0.04	2.9	1.4	1.0 - 1.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	1.41	0.08	5.4	1.4	1.1 - 1.8
Roche Integra						
Roche Integra	27	1.22	0.10	8.5	1.2	0.9 - 1.6
All Chemistry Instruments	28	1.23	0.11	8.8	1.2	0.9 - 1.6
Siemens Healthcare						
Siemens Dimension	50	1.38	0.08	5.9	1.4	1.0 - 1.7
All Chemistry Instruments	51	1.38	0.08	5.8	1.4	1.0 - 1.7
Vital Diagnostics						
Vital Diagnostics Envoy 500	18	1.38	0.06	4.7	1.4	1.0 - 1.7
All Chemistry Instruments	20	1.36	0.09	6.5	1.4	1.0 - 1.7
VITROS - CREA						
VITROS 250,350,500,700,750,950	11	1.14	0.07	5.9	1.1	0.8 - 1.5
All Chemistry Instruments	12	1.13	0.07	5.7	1.1	0.8 - 1.5
VITROS - CRSC (DT)						
VITROS 250,350,500,700,750,950	17	1.13	0.05	4.2	1.1	0.8 - 1.5
All Chemistry Instruments	25	1.18	0.13	11.1	1.1	0.8 - 1.5

Glucose (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	321	93.0	4.0	4.3	93	83 - 103	321	170.1	6.3	3.7	171	153 - 188
All Alfa Wassermann Reagents	53	95.3	1.8	1.9	95	85 - 105	51	172.0	2.6	1.5	171	154 - 190
All Horiba Pentra Reagents	21	95.0	3.8	4.0	94	85 - 105	21	174.5	4.9	2.8	175	157 - 192
All Roche Integra/c111/c301/c501 Reagents	36	93.3	3.1	3.3	93	83 - 103	36	171.8	4.9	2.9	172	154 - 189
All Vital Diagnostics Reagents	19	96.4	4.6	4.8	96	86 - 107	19	173.8	7.4	4.2	174	156 - 192
Abaxis Piccolo												
Abaxis Piccolo - waived	20	91.7	1.7	1.9	92	82 - 101	21	166.3	3.3	2.0	167	149 - 183
All Chemistry Instruments	28	91.6	1.6	1.8	92	82 - 101	29	166.6	3.0	1.8	167	149 - 184
Alere Cholestech LDX												
Cholestech LDX - waived	12	85.9	3.8	4.5	87	77 - 95	12	159.5	8.8	5.5	160	143 - 176
All Chemistry Instruments	13	85.8	3.7	4.3	86	77 - 95	13	158.6	9.0	5.7	159	142 - 175
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	53	95.3	1.8	1.9	95	85 - 105	51	172.0	2.6	1.5	171	154 - 190
Beckman AU												
Beckman AU systems	27	93.9	2.4	2.6	94	84 - 104	27	172.9	3.9	2.2	174	155 - 191
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	95.1	3.8	4.0	94	85 - 105	20	174.8	4.7	2.7	175	157 - 193
Roche Integra												
Roche Integra	27	92.9	3.1	3.3	93	83 - 103	27	171.4	5.1	3.0	170	154 - 189
All Chemistry Instruments	28	93.0	3.0	3.3	93	83 - 103	28	171.4	5.0	2.9	171	154 - 189
Siemens Healthcare												
Siemens Dimension	50	94.1	2.0	2.2	94	84 - 104	51	172.8	4.1	2.4	173	155 - 191
All Chemistry Instruments	51	94.0	2.0	2.2	94	84 - 104	52	172.8	4.1	2.4	173	155 - 191
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	96.7	4.6	4.7	97	87 - 107	18	174.4	7.1	4.1	175	156 - 192
All Chemistry Instruments	19	96.4	4.6	4.8	96	86 - 107	19	173.8	7.4	4.2	174	156 - 192
VITROS												
VITROS 250,350,500,700,750,950	31	86.7	3.0	3.4	86	78 - 96	31	161.3	4.9	3.0	161	145 - 178
All Chemistry Instruments	38	86.6	2.9	3.4	86	77 - 96	38	161.1	5.0	3.1	161	144 - 178

Glucose (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	300	248.0	7.7	3.1	248	223 - 273	300	70.6	3.1	4.5	70	63 - 78
All Alfa Wassermann Reagents	52	249.2	3.9	1.6	250	224 - 275	51	72.3	1.3	1.8	72	65 - 80
All Horiba Pentra Reagents	21	255.0	7.5	2.9	255	229 - 281	21	69.4	2.9	4.1	69	62 - 77
All Roche Integra/c111/c301/c501 Reagents	36	248.6	7.6	3.1	248	223 - 274	36	68.9	2.3	3.4	69	62 - 76
All Vital Diagnostics Reagents	19	253.8	10.5	4.1	254	228 - 280	19	73.0	2.9	3.9	74	65 - 81
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	242	217 - 267	9	-	-	-	69	61 - 76
All Chemistry Instruments	17	242.1	3.7	1.5	242	217 - 267	17	68.9	1.3	1.9	69	61 - 76
Alere Cholestech LDX												
Cholestech LDX - waived	2	-	-	-	218	196 - 240	2	-	-	-	62	55 - 68
All Chemistry Instruments	3	-	-	-	214	195 - 239	3	-	-	-	61	55 - 68
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	52	249.2	3.9	1.6	250	224 - 275	51	72.3	1.3	1.8	72	65 - 80
Beckman AU												
Beckman AU systems	27	251.1	5.6	2.2	251	225 - 277	27	69.6	1.5	2.1	70	62 - 77
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	255.5	7.3	2.9	256	229 - 282	20	69.5	2.9	4.1	69	62 - 77
Roche Integra												
Roche Integra	27	247.9	7.7	3.1	247	223 - 273	27	68.6	2.4	3.5	68	61 - 76
All Chemistry Instruments	28	248.0	7.6	3.1	248	223 - 273	28	68.6	2.4	3.5	68	61 - 76
Siemens Healthcare												
Siemens Dimension	51	249.5	4.9	2.0	250	224 - 275	51	73.5	2.9	3.9	73	66 - 81
All Chemistry Instruments	52	249.4	4.9	2.0	250	224 - 275	52	73.4	2.9	3.9	73	66 - 81
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	253.9	10.8	4.2	255	228 - 280	18	73.2	2.9	3.9	74	65 - 81
All Chemistry Instruments	19	253.8	10.5	4.1	254	228 - 280	19	73.0	2.9	3.9	74	65 - 81
VITROS												
VITROS 250,350,500,700,750,950	31	239.7	6.3	2.6	239	215 - 264	31	68.5	2.6	3.7	68	61 - 76
All Chemistry Instruments	38	239.8	6.3	2.6	240	215 - 264	37	68.1	2.2	3.2	68	61 - 75

Glucose (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	296	47.4	3.2	6.7	47	41 - 54
All Alfa Wassermann Reagents	52	48.9	1.4	2.9	49	42 - 55
All Horiba Pentra Reagents	21	45.0	2.7	6.0	45	39 - 51
All Roche Integra/c111/c301/c501 Reagents	36	44.9	1.7	3.7	45	38 - 51
All Vital Diagnostics Reagents	18	49.3	1.9	3.8	50	43 - 56
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	46	40 - 53
All Chemistry Instruments	17	46.4	1.7	3.6	46	40 - 53
Alere Cholestech LDX						
Cholestech LDX - waived	2	-	-	-	50	41 - 54
All Chemistry Instruments	3	-	-	-	50	44 - 56
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	52	48.9	1.4	2.9	49	42 - 55
Beckman AU						
Beckman AU systems	27	44.9	1.3	2.8	45	38 - 51
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	45.2	2.7	5.9	45	39 - 52
Roche Integra						
Roche Integra	27	44.5	1.5	3.4	44	38 - 51
All Chemistry Instruments	28	44.6	1.6	3.5	44	38 - 51
Siemens Healthcare						
Siemens Dimension	50	52.0	2.8	5.4	52	46 - 58
All Chemistry Instruments	51	52.0	2.8	5.4	52	45 - 58
Vital Diagnostics						
Vital Diagnostics Envoy 500	18	49.3	1.9	3.8	50	43 - 56
All Chemistry Instruments	18	49.3	1.9	3.8	50	43 - 56
VITROS						
VITROS 250,350,500,700,750,950	31	45.7	1.9	4.2	46	39 - 52
All Chemistry Instruments	38	45.5	1.9	4.2	46	39 - 52

Iron (µg/dL)

Reagent/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	105	57.6	4.7	8.1	58	46 - 70	104	119.1	8.5	7.1	118	95 - 143
All Roche Integra/c111/c301/c501 Reagents	14	58.4	4.0	6.9	58	46 - 71	14	121.2	2.1	1.7	122	96 - 146
Beckman AU												
Beckman AU systems	17	62.2	1.8	2.8	62	49 - 75	17	130.2	2.3	1.8	131	104 - 157
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	48.4	3.2	6.6	49	38 - 59	10	102.1	6.2	6.1	103	81 - 123
Roche Integra												
All Chemistry Instruments	10	57.5	4.1	7.1	58	46 - 69	10	121.0	2.4	1.9	121	96 - 146
Siemens Healthcare												
Siemens Dimension	24	57.4	1.5	2.7	58	45 - 69	24	115.8	2.0	1.7	116	92 - 139
VITROS												
All Chemistry Instruments	12	59.9	2.9	4.8	60	47 - 72	11	127.2	5.7	4.5	127	101 - 153

Reagent/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	105	180.8	15.7	8.7	179	144 - 217	106	156.1	13.8	8.8	154	124 - 188
All Roche Integra/c111/c301/c501 Reagents	14	181.9	6.1	3.4	181	145 - 219	14	157.8	3.9	2.5	158	126 - 190
Beckman AU												
Beckman AU systems	17	197.7	3.4	1.7	199	158 - 238	17	169.9	3.5	2.1	170	135 - 204
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	156.3	9.3	6.0	159	125 - 188	10	132.5	7.6	5.7	134	106 - 159
Roche Integra												
All Chemistry Instruments	10	181.6	6.8	3.7	181	145 - 218	10	157.7	3.5	2.2	158	126 - 190
Siemens Healthcare												
Siemens Dimension	23	174.0	2.9	1.7	174	139 - 209	23	151.3	2.4	1.6	152	121 - 182
VITROS												
All Chemistry Instruments	11	203.4	13.1	6.4	206	162 - 245	12	177.8	7.5	4.2	181	142 - 214

Reagent/Instrument	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	106	255.5	28.0	11.0	249	204 - 307
All Roche Integra/c111/c301/c501 Reagents	14	254.4	4.7	1.9	255	203 - 306
Beckman AU						
Beckman AU systems	17	279.8	4.3	1.5	281	223 - 336
Horiba ABX Pentra						
Horiba ABX Pentra 400	10	213.7	13.1	6.2	217	170 - 257
Roche Integra						
All Chemistry Instruments	10	254.2	5.3	2.1	256	203 - 306
Siemens Healthcare						
Siemens Dimension	23	246.3	3.5	1.4	248	197 - 296
VITROS						
All Chemistry Instruments	12	315.8	15.6	4.9	316	252 - 379

Lactic Acid (mmol/L)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	1.34	0.31	23.4	1.4	0.4 - 2.3	5	2.56	0.28	10.9	2.5	1.7 - 3.4
	Specimen CH-3						**Specimen CH-4**					
All Method	5	3.62	0.16	4.5	3.6	3.1 - 4.2	5	3.72	0.29	7.9	3.6	2.8 - 4.7
	Specimen CH-5											
All Method	5	6.06	0.64	10.5	5.9	4.1 - 8.0						

Magnesium (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	137	4.65	0.39	8.3	4.6	3.4 - 5.9	133	3.12	0.20	6.4	3.1	2.3 - 3.9
All Horiba Pentra Reagents	18	4.41	0.50	11.3	4.3	3.3 - 5.6	18	2.98	0.30	10.1	3.0	2.2 - 3.8
All Roche Integra/c111/c301/c501 Reagents	22	4.57	0.11	2.4	4.6	3.4 - 5.8	22	3.06	0.06	1.9	3.1	2.2 - 3.9
Beckman AU												
Beckman AU systems	16	4.68	0.16	3.5	4.7	3.5 - 5.9	16	3.11	0.13	4.2	3.1	2.3 - 3.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	4.40	0.51	11.6	4.3	3.3 - 5.5	17	2.96	0.31	10.3	3.0	2.2 - 3.8
Roche Integra												
Roche Integra	14	4.55	0.12	2.7	4.6	3.4 - 5.7	14	3.05	0.07	2.1	3.0	2.2 - 3.9
All Chemistry Instruments	15	4.55	0.12	2.6	4.6	3.4 - 5.7	15	3.05	0.06	2.1	3.0	2.2 - 3.9
Siemens Healthcare												
Siemens Dimension	24	4.83	0.11	2.2	4.8	3.6 - 6.1	25	3.20	0.10	3.2	3.2	2.3 - 4.0
VITROS												
VITROS 250,350,500,700,750,950	12	5.28	0.26	4.8	5.3	3.9 - 6.7	12	3.48	0.21	6.0	3.4	2.6 - 4.4
All Chemistry Instruments	19	5.20	0.16	3.1	5.2	3.9 - 6.5	19	3.41	0.11	3.4	3.4	2.5 - 4.3

Magnesium (mg/dL)

Reagent/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	134	1.53	0.11	7.1	1.5	1.1 - 2.0	137	3.96	0.28	7.0	4.0	2.9 - 5.0
All Horiba Pentra Reagents	17	1.57	0.16	10.0	1.6	1.1 - 2.0	18	3.78	0.37	9.9	3.8	2.8 - 4.8
All Roche Integra/c111/c301/c501 Reagents	22	1.55	0.07	4.3	1.5	1.1 - 2.0	22	3.89	0.11	2.7	3.9	2.9 - 4.9
Beckman AU												
Beckman AU systems	16	1.54	0.05	3.3	1.5	1.1 - 2.0	16	3.99	0.15	3.8	4.0	2.9 - 5.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	1.57	0.16	10.3	1.6	1.1 - 2.0	17	3.77	0.38	10.1	3.8	2.8 - 4.8
Roche Integra												
Roche Integra	14	1.54	0.06	4.2	1.5	1.1 - 2.0	14	3.86	0.11	2.8	3.9	2.8 - 4.9
All Chemistry Instruments	15	1.55	0.06	4.1	1.5	1.1 - 2.0	15	3.87	0.11	2.9	3.9	2.9 - 4.9
Siemens Healthcare												
Siemens Dimension	25	1.53	0.07	4.8	1.5	1.1 - 2.0	24	4.12	0.12	2.8	4.1	3.0 - 5.2
VITROS												
VITROS 250,350,500,700,750,950	12	1.52	0.17	11.5	1.6	1.1 - 1.9	12	4.38	0.28	6.4	4.4	3.2 - 5.5
All Chemistry Instruments	20	1.54	0.15	9.7	1.6	1.1 - 2.0	19	4.30	0.15	3.5	4.3	3.2 - 5.4

Reagent/Instrument	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	137	3.26	0.22	6.8	3.3	2.4 - 4.1
All Horiba Pentra Reagents	17	3.08	0.25	8.2	3.1	2.3 - 3.9
All Roche Integra/c111/c301/c501 Reagents	22	3.21	0.11	3.3	3.2	2.4 - 4.1
Beckman AU						
Beckman AU systems	16	3.29	0.13	4.0	3.3	2.4 - 4.2
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	3.06	0.25	8.2	3.1	2.2 - 3.9
Roche Integra						
Roche Integra	14	3.15	0.08	2.4	3.2	2.3 - 4.0
All Chemistry Instruments	15	3.16	0.08	2.6	3.2	2.3 - 4.0
Siemens Healthcare						
Siemens Dimension	25	3.40	0.11	3.3	3.4	2.5 - 4.3
VITROS						
VITROS 250,350,500,700,750,950	12	3.50	0.23	6.6	3.5	2.6 - 4.4
All Chemistry Instruments	19	3.46	0.11	3.1	3.5	2.5 - 4.4

Phosphorus (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	115	5.69	0.25	4.5	5.7	5.0 - 6.3	116	4.00	0.20	4.9	4.0	3.5 - 4.5
All Alfa Wassermann Reagents	15	5.99	0.22	3.6	6.0	5.3 - 6.7	15	3.99	0.14	3.6	4.0	3.5 - 4.5
All Roche Integra/c111/c301/c501 Reagents	17	5.68	0.13	2.3	5.7	5.0 - 6.3	16	3.98	0.10	2.5	3.9	3.5 - 4.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	15	5.99	0.22	3.6	6.0	5.3 - 6.7	15	3.99	0.14	3.6	4.0	3.5 - 4.5
Beckman AU												
Beckman AU systems	14	5.45	0.17	3.2	5.5	4.8 - 6.1	14	3.80	0.16	4.3	3.8	3.3 - 4.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	5.73	0.45	7.9	5.9	5.1 - 6.4	12	4.18	0.32	7.8	4.3	3.7 - 4.7
Roche Integra												
Roche Integra	10	5.67	0.09	1.7	5.7	5.0 - 6.3	9	-	-	-	3.9	3.5 - 4.4
All Chemistry Instruments	11	5.66	0.09	1.6	5.6	5.0 - 6.3	10	3.95	0.08	2.2	3.9	3.5 - 4.4
Siemens Healthcare												
Siemens Dimension	19	5.64	0.15	2.6	5.6	5.0 - 6.3	19	3.92	0.06	1.6	3.9	3.5 - 4.4
VITROS												
All Chemistry Instruments	13	5.47	0.21	3.9	5.4	4.8 - 6.1	13	4.07	0.14	3.5	4.1	3.6 - 4.6

	Specimen CH-3						Specimen CH-4					
All Method	119	2.27	0.31	13.5	2.2	1.9 - 2.6	116	4.97	0.23	4.7	4.9	4.4 - 5.5
All Alfa Wassermann Reagents	15	1.97	0.13	6.8	2.0	1.6 - 2.3	15	4.99	0.16	3.2	5.0	4.4 - 5.6
All Roche Integra/c111/c301/c501 Reagents	17	2.22	0.08	3.4	2.2	1.9 - 2.6	17	4.95	0.13	2.6	4.9	4.4 - 5.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	15	1.97	0.13	6.8	2.0	1.6 - 2.3	15	4.99	0.16	3.2	5.0	4.4 - 5.6
Beckman AU												
Beckman AU systems	14	2.07	0.12	5.8	2.1	1.7 - 2.4	14	4.72	0.18	3.7	4.8	4.2 - 5.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	2.63	0.23	8.6	2.7	2.3 - 3.0	12	5.18	0.40	7.8	5.3	4.6 - 5.8
Roche Integra												
Roche Integra	10	2.23	0.08	3.7	2.3	1.9 - 2.6	10	4.93	0.12	2.4	4.9	4.4 - 5.5
All Chemistry Instruments	11	2.23	0.08	3.5	2.2	1.9 - 2.6	11	4.92	0.12	2.4	4.9	4.3 - 5.5
Siemens Healthcare												
Siemens Dimension	18	2.17	0.07	3.2	2.2	1.8 - 2.5	19	4.87	0.11	2.4	4.9	4.3 - 5.4
VITROS												
All Chemistry Instruments	13	2.58	0.13	5.0	2.6	2.2 - 2.9	13	4.95	0.19	3.7	4.9	4.4 - 5.5

Phosphorus (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	120	4.28	0.30	7.1	4.2	3.8 - 4.8
All Alfa Wassermann Reagents	15	4.03	0.13	3.3	4.0	3.6 - 4.5
All Roche Integra/c111/c301/c501 Reagents	17	4.21	0.12	2.8	4.2	3.7 - 4.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	15	4.03	0.13	3.3	4.0	3.6 - 4.5
Beckman AU						
Beckman AU systems	14	4.02	0.18	4.5	4.1	3.5 - 4.5
Horiba ABX Pentra						
Horiba ABX Pentra 400	12	4.63	0.32	6.8	4.7	4.1 - 5.2
Roche Integra						
Roche Integra	10	4.17	0.08	2.0	4.2	3.7 - 4.7
All Chemistry Instruments	11	4.16	0.08	1.9	4.1	3.7 - 4.7
Siemens Healthcare						
Siemens Dimension	18	4.18	0.09	2.1	4.2	3.7 - 4.7
VITROS						
All Chemistry Instruments	13	4.55	0.13	2.8	4.5	4.0 - 5.1

Protein, Total (g/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	295	2.63	0.13	5.0	2.6	2.3 - 2.9	289	4.13	0.15	3.6	4.1	3.7 - 4.6
All Alfa Wassermann Reagents	47	2.62	0.09	3.4	2.6	2.3 - 2.9	47	4.17	0.11	2.5	4.2	3.7 - 4.6
All Horiba Pentra Reagents	21	2.59	0.08	3.2	2.6	2.3 - 2.9	21	4.07	0.12	2.9	4.1	3.6 - 4.5
All Roche Integra/c111/c301/c501 Reagents	34	2.53	0.11	4.4	2.5	2.2 - 2.8	34	4.04	0.15	3.8	4.0	3.6 - 4.5
All Vital Diagnostics Reagents	19	2.78	0.20	7.2	2.8	2.5 - 3.1	19	4.39	0.27	6.2	4.4	3.9 - 4.9
Abaxis Piccolo												
Abaxis Piccolo - waived	21	2.77	0.07	2.4	2.8	2.4 - 3.1	21	4.20	0.08	1.9	4.2	3.7 - 4.7
All Chemistry Instruments	28	2.77	0.07	2.4	2.8	2.4 - 3.1	28	4.20	0.08	2.0	4.2	3.7 - 4.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	47	2.62	0.09	3.4	2.6	2.3 - 2.9	47	4.17	0.11	2.5	4.2	3.7 - 4.6
Beckman AU												
Beckman AU systems	25	2.52	0.07	2.6	2.5	2.2 - 2.8	27	3.97	0.12	3.1	4.0	3.5 - 4.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	2.59	0.08	3.1	2.6	2.3 - 2.9	20	4.07	0.12	2.9	4.1	3.6 - 4.5
Roche Integra												
Roche Integra	26	2.50	0.10	3.8	2.5	2.2 - 2.8	26	4.01	0.15	3.7	4.0	3.6 - 4.5
All Chemistry Instruments	27	2.51	0.10	3.8	2.5	2.2 - 2.8	27	4.01	0.15	3.6	4.0	3.6 - 4.5
Siemens Healthcare												
Siemens Dimension	51	2.67	0.08	3.2	2.7	2.4 - 3.0	51	4.22	0.10	2.3	4.2	3.7 - 4.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	2.78	0.21	7.4	2.9	2.5 - 3.1	18	4.39	0.28	6.4	4.4	3.9 - 4.9
All Chemistry Instruments	19	2.78	0.20	7.2	2.8	2.5 - 3.1	19	4.39	0.27	6.2	4.4	3.9 - 4.9
VITROS												
VITROS 250,350,500,700,750,950	30	2.56	0.06	2.4	2.6	2.3 - 2.9	30	4.06	0.11	2.6	4.1	3.6 - 4.5
All Chemistry Instruments	36	2.57	0.06	2.4	2.6	2.3 - 2.9	36	4.06	0.12	2.9	4.1	3.6 - 4.5

Protein, Total (g/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	280	5.60	0.21	3.7	5.6	5.0 - 6.2	281	5.72	0.22	3.9	5.7	5.1 - 6.3
All Alfa Wassermann Reagents	46	5.67	0.17	3.0	5.7	5.1 - 6.3	45	5.78	0.12	2.0	5.8	5.1 - 6.4
All Horiba Pentra Reagents	21	5.51	0.16	2.9	5.5	4.9 - 6.1	21	5.67	0.15	2.6	5.6	5.1 - 6.3
All Roche Integra/c111/c301/c501 Reagents	34	5.48	0.21	3.8	5.4	4.9 - 6.1	34	5.62	0.20	3.6	5.6	5.0 - 6.2
All Vital Diagnostics Reagents	19	5.98	0.33	5.5	6.0	5.3 - 6.6	19	6.09	0.27	4.4	6.1	5.4 - 6.8
Abaxis Piccolo												
Abaxis Piccolo - waived	10	5.57	0.09	1.7	5.6	5.0 - 6.2	10	5.82	0.09	1.6	5.8	5.2 - 6.5
All Chemistry Instruments	17	5.58	0.09	1.6	5.6	5.0 - 6.2	17	5.81	0.08	1.3	5.8	5.2 - 6.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	46	5.67	0.17	3.0	5.7	5.1 - 6.3	45	5.78	0.12	2.0	5.8	5.1 - 6.4
Beckman AU												
Beckman AU systems	26	5.46	0.12	2.3	5.5	4.9 - 6.1	26	5.59	0.10	1.8	5.6	5.0 - 6.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	5.50	0.16	2.8	5.5	4.9 - 6.1	20	5.66	0.15	2.7	5.6	5.0 - 6.3
Roche Integra												
Roche Integra	26	5.47	0.21	3.8	5.4	4.9 - 6.1	26	5.60	0.20	3.6	5.6	5.0 - 6.2
All Chemistry Instruments	27	5.46	0.20	3.7	5.4	4.9 - 6.1	27	5.60	0.20	3.5	5.6	5.0 - 6.2
Siemens Healthcare												
Siemens Dimension	51	5.74	0.12	2.2	5.7	5.1 - 6.4	51	5.90	0.12	2.1	5.9	5.3 - 6.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	6.01	0.30	5.0	6.0	5.4 - 6.7	18	6.11	0.27	4.4	6.1	5.4 - 6.8
All Chemistry Instruments	19	5.98	0.33	5.5	6.0	5.3 - 6.6	19	6.09	0.27	4.4	6.1	5.4 - 6.8
VITROS												
VITROS 250,350,500,700,750,950	30	5.50	0.12	2.1	5.5	4.9 - 6.1	30	5.45	0.09	1.7	5.4	4.9 - 6.0
All Chemistry Instruments	36	5.50	0.14	2.5	5.5	4.9 - 6.1	35	5.44	0.10	1.8	5.4	4.8 - 6.0

Protein, Total (g/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	282	8.76	0.38	4.4	8.8	7.8 - 9.7
All Alfa Wassermann Reagents	46	8.84	0.22	2.4	8.9	7.9 - 9.8
All Horiba Pentra Reagents	21	8.66	0.26	3.0	8.6	7.7 - 9.6
All Roche Integra/c111/c301/c501 Reagents	34	8.59	0.30	3.5	8.6	7.7 - 9.5
All Vital Diagnostics Reagents	19	9.29	0.42	4.5	9.4	8.3 - 10.3
Abaxis Piccolo						
Abaxis Piccolo - waived	10	8.91	0.19	2.1	8.9	8.0 - 9.9
All Chemistry Instruments	17	8.88	0.19	2.2	8.8	7.9 - 9.8
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	46	8.84	0.22	2.4	8.9	7.9 - 9.8
Beckman AU						
Beckman AU systems	26	8.61	0.19	2.2	8.7	7.7 - 9.5
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	8.65	0.26	3.0	8.6	7.7 - 9.6
Roche Integra						
Roche Integra	26	8.56	0.30	3.5	8.5	7.7 - 9.5
All Chemistry Instruments	27	8.56	0.29	3.4	8.5	7.7 - 9.5
Siemens Healthcare						
Siemens Dimension	50	9.10	0.17	1.9	9.1	8.1 - 10.1
Vital Diagnostics						
Vital Diagnostics Envoy 500	18	9.33	0.39	4.2	9.4	8.3 - 10.3
All Chemistry Instruments	19	9.29	0.42	4.5	9.4	8.3 - 10.3
VITROS						
VITROS 250,350,500,700,750,950	30	8.22	0.19	2.3	8.2	7.3 - 9.1
All Chemistry Instruments	36	8.20	0.21	2.5	8.2	7.3 - 9.1

Urea Nitrogen (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	302	7.2	0.8	11.1	7	5 - 10	300	24.4	1.8	7.4	25	22 - 27
All Alfa Wassermann Reagents	49	7.4	0.6	8.2	7	5 - 10	49	25.3	1.2	4.7	25	23 - 28
All Horiba Pentra Reagents	21	7.0	0.7	9.5	7	5 - 10	21	24.5	0.9	3.8	24	22 - 27
All Roche Integra/c111/c301/c501 Reagents	35	7.1	0.4	5.3	7	5 - 10	35	24.4	0.7	3.0	24	22 - 27
All Vital Diagnostics Reagents	17	7.9	0.9	10.9	8	5 - 10	17	25.6	1.4	5.5	26	23 - 28
Abaxis Piccolo												
Abaxis Piccolo - waived	21	7.7	0.7	9.3	8	5 - 10	21	23.8	0.6	2.5	24	21 - 26
All Chemistry Instruments	29	7.8	0.8	10.7	8	5 - 10	29	24.0	0.7	3.0	24	21 - 27
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	49	7.4	0.6	8.2	7	5 - 10	49	25.3	1.2	4.7	25	23 - 28
Beckman AU												
Beckman AU systems	26	7.6	0.8	10.0	7	5 - 10	27	25.3	1.0	3.8	25	23 - 28
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	7.1	0.7	9.7	7	5 - 10	20	24.4	0.9	3.6	24	22 - 27
Roche Integra												
Roche Integra	23	7.0	0.0	0.0	7	5 - 9	26	24.3	0.8	3.2	24	22 - 27
All Chemistry Instruments	24	7.0	0.0	0.0	7	5 - 9	27	24.3	0.8	3.2	24	22 - 27
Siemens Healthcare												
Siemens Dimension	51	7.2	0.7	9.2	7	5 - 10	50	25.1	0.8	3.3	25	22 - 28
All Chemistry Instruments	52	7.2	0.7	9.1	7	5 - 10	51	25.0	0.9	3.5	25	22 - 28
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	7.9	0.9	11.2	8	5 - 10	16	25.6	1.5	5.7	26	23 - 28
All Chemistry Instruments	17	7.9	0.9	10.9	8	5 - 10	17	25.6	1.4	5.5	26	23 - 28
VITROS												
VITROS 250,350,500,700,750,950	30	6.1	0.5	8.3	6	4 - 9	31	20.7	0.9	4.2	21	18 - 23
All Chemistry Instruments	38	6.1	0.5	7.7	6	4 - 9	39	20.6	0.9	4.6	21	18 - 23

Urea Nitrogen (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	290	41.5	3.3	7.9	42	37 - 46	290	13.2	1.0	7.3	13	11 - 16
All Alfa Wassermann Reagents	49	43.1	1.7	4.0	43	39 - 47	48	13.5	0.7	5.3	13	11 - 16
All Horiba Pentra Reagents	21	41.9	1.4	3.4	42	38 - 46	21	13.1	0.8	6.0	13	11 - 16
All Roche Integra/c111/c301/c501 Reagents	34	41.7	1.3	3.0	42	37 - 46	35	12.9	0.4	2.9	13	10 - 15
All Vital Diagnostics Reagents	16	42.8	0.7	1.8	43	38 - 47	18	13.7	1.0	7.4	14	11 - 16
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	41	37 - 46	9	-	-	-	13	10 - 15
All Chemistry Instruments	17	41.4	1.0	2.4	42	37 - 46	17	12.7	1.1	8.7	13	10 - 15
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	49	43.1	1.7	4.0	43	39 - 47	48	13.5	0.7	5.3	13	11 - 16
Beckman AU												
Beckman AU systems	27	42.9	1.6	3.8	43	38 - 47	27	13.8	0.7	4.9	14	11 - 16
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	41.9	1.4	3.5	42	38 - 46	20	13.2	0.8	6.2	13	11 - 16
Roche Integra												
Roche Integra	26	41.4	1.6	3.8	42	37 - 46	26	12.8	0.4	2.9	13	10 - 15
All Chemistry Instruments	27	41.4	1.6	3.7	41	37 - 46	27	12.9	0.4	2.8	13	10 - 15
Siemens Healthcare												
Siemens Dimension	51	42.8	1.4	3.4	43	38 - 47	51	13.4	0.8	5.8	13	11 - 16
All Chemistry Instruments	52	42.8	1.5	3.5	43	38 - 47	52	13.4	0.8	6.0	13	11 - 16
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	42.8	0.8	1.8	43	38 - 47	17	13.6	1.0	7.3	14	11 - 16
All Chemistry Instruments	16	42.8	0.7	1.8	43	38 - 47	18	13.7	1.0	7.4	14	11 - 16
VITROS												
VITROS 250,350,500,700,750,950	31	34.3	1.0	2.9	34	31 - 38	30	11.8	0.4	3.4	12	9 - 14
All Chemistry Instruments	38	34.1	1.0	3.1	34	31 - 38	38	11.8	0.4	3.5	12	9 - 14

Urea Nitrogen (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	291	19.1	1.2	6.4	19	17 - 22
All Alfa Wassermann Reagents	49	19.6	1.0	5.3	20	17 - 22
All Horiba Pentra Reagents	21	19.6	1.2	5.9	20	17 - 22
All Roche Integra/c111/c301/c501 Reagents	35	18.7	0.7	3.6	19	16 - 21
All Vital Diagnostics Reagents	18	19.7	1.2	6.0	20	17 - 22
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	19	16 - 21
All Chemistry Instruments	17	18.9	0.8	4.1	19	16 - 21
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	49	19.6	1.0	5.3	20	17 - 22
Beckman AU						
Beckman AU systems	27	19.8	0.7	3.7	20	17 - 22
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	19.6	1.2	6.1	20	17 - 22
Roche Integra						
Roche Integra	26	18.6	0.6	3.5	19	16 - 21
All Chemistry Instruments	27	18.6	0.6	3.4	19	16 - 21
Siemens Healthcare						
Siemens Dimension	50	19.5	0.9	4.6	20	17 - 22
All Chemistry Instruments	51	19.4	0.9	4.6	19	17 - 22
Vital Diagnostics						
Vital Diagnostics Envoy 500	17	19.7	1.2	6.2	20	17 - 22
All Chemistry Instruments	18	19.7	1.2	6.0	20	17 - 22
VITROS						
VITROS 250,350,500,700,750,950	31	17.2	0.7	4.4	17	15 - 20
All Chemistry Instruments	39	17.2	0.7	4.2	17	15 - 20

Uric Acid (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	182	7.05	0.33	4.7	7.0	5.8 - 8.3	184	10.45	0.40	3.8	10.5	8.6 - 12.3
All Alfa Wassermann Reagents	29	7.46	0.35	4.7	7.4	6.1 - 8.8	29	10.63	0.41	3.9	10.7	8.8 - 12.5
All Roche Integra/c111/c301/c501 Reagents	21	7.09	0.16	2.3	7.1	5.8 - 8.3	21	10.64	0.27	2.5	10.7	8.8 - 12.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	7.46	0.35	4.7	7.4	6.1 - 8.8	29	10.63	0.41	3.9	10.7	8.8 - 12.5
Beckman AU												
Beckman AU systems	23	7.30	0.12	1.6	7.3	6.0 - 8.6	23	10.82	0.16	1.5	10.8	8.9 - 12.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	6.93	0.30	4.3	6.9	5.7 - 8.2	16	10.34	0.43	4.1	10.3	8.5 - 12.1
Roche Integra												
Roche Integra	15	7.06	0.17	2.4	7.0	5.8 - 8.3	15	10.60	0.30	2.9	10.6	8.7 - 12.5
All Chemistry Instruments	16	7.06	0.16	2.3	7.1	5.8 - 8.3	16	10.61	0.30	2.8	10.7	8.8 - 12.5
Siemens Healthcare												
Siemens Dimension	37	6.91	0.13	1.8	6.9	5.7 - 8.1	37	10.37	0.20	1.9	10.4	8.6 - 12.2
Vital Diagnostics												
Vital Diagnostics Envoy 500	11	7.13	0.27	3.8	7.1	5.9 - 8.4	11	10.65	0.36	3.4	10.6	8.8 - 12.5
VITROS												
VITROS 250,350,500,700,750,950	18	6.59	0.15	2.3	6.6	5.4 - 7.8	18	10.08	0.24	2.4	10.1	8.3 - 11.8
All Chemistry Instruments	23	6.63	0.16	2.4	6.6	5.5 - 7.8	23	10.11	0.23	2.3	10.2	8.3 - 11.9

	Specimen CH-3						Specimen CH-4					
All Method	180	13.91	0.43	3.1	13.9	11.5 - 16.3	180	4.76	0.25	5.3	4.7	3.9 - 5.6
All Alfa Wassermann Reagents	29	13.98	0.48	3.4	14.1	11.6 - 16.4	29	5.24	0.27	5.1	5.3	4.3 - 6.2
All Roche Integra/c111/c301/c501 Reagents	21	14.05	0.37	2.7	14.1	11.6 - 16.5	21	4.68	0.13	2.7	4.7	3.8 - 5.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	13.98	0.48	3.4	14.1	11.6 - 16.4	29	5.24	0.27	5.1	5.3	4.3 - 6.2
Beckman AU												
Beckman AU systems	23	14.28	0.22	1.6	14.3	11.8 - 16.8	23	4.81	0.10	2.0	4.8	3.9 - 5.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	13.74	0.55	4.0	13.7	11.4 - 16.1	16	4.53	0.19	4.2	4.5	3.7 - 5.4
Roche Integra												
Roche Integra	15	14.01	0.39	2.8	14.0	11.6 - 16.4	15	4.65	0.11	2.4	4.6	3.8 - 5.5
All Chemistry Instruments	16	14.02	0.37	2.7	14.1	11.6 - 16.5	16	4.65	0.11	2.4	4.7	3.8 - 5.5
Siemens Healthcare												
Siemens Dimension	37	13.90	0.26	1.9	13.9	11.5 - 16.3	37	4.66	0.13	2.8	4.7	3.8 - 5.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	11	14.02	0.53	3.8	13.9	11.6 - 16.5	11	4.73	0.17	3.7	4.8	3.9 - 5.6
VITROS												
VITROS 250,350,500,700,750,950	18	13.65	0.31	2.2	13.7	11.3 - 16.0	18	4.64	0.11	2.4	4.7	3.8 - 5.5
All Chemistry Instruments	23	13.66	0.27	2.0	13.7	11.3 - 16.0	23	4.66	0.11	2.3	4.7	3.8 - 5.5

Uric Acid (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	184	2.60	0.52	20.0	2.4	2.1 - 3.1
All Alfa Wassermann Reagents	29	3.71	0.18	4.8	3.7	3.0 - 4.4
All Roche Integra/c111/c301/c501 Reagents	21	2.29	0.07	3.1	2.3	1.9 - 2.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	29	3.71	0.18	4.8	3.7	3.0 - 4.4
Beckman AU						
Beckman AU systems	22	2.40	0.04	1.8	2.4	1.9 - 2.9
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	2.19	0.13	6.0	2.2	1.8 - 2.6
Roche Integra						
Roche Integra	15	2.27	0.06	2.7	2.3	1.8 - 2.7
All Chemistry Instruments	16	2.27	0.06	2.7	2.3	1.8 - 2.7
Siemens Healthcare						
Siemens Dimension	35	2.58	0.12	4.5	2.6	2.1 - 3.1
Vital Diagnostics						
Vital Diagnostics Envoy 500	11	2.30	0.08	3.4	2.3	1.9 - 2.7
VITROS						
VITROS 250,350,500,700,750,950	18	2.38	0.09	3.7	2.4	1.9 - 2.8
All Chemistry Instruments	23	2.37	0.08	3.4	2.4	1.9 - 2.8

Chloride (mmol/L)

Method/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	298	104.6	2.1	2.0	105	99 - 110	295	96.5	2.3	2.3	96	91 - 102
Abaxis Piccolo												
Abaxis Piccolo - waived	19	105.6	2.3	2.2	106	100 - 111	19	99.2	1.6	1.7	99	94 - 105
All Chemistry Instruments	26	106.0	1.7	1.6	106	100 - 112	27	99.6	1.6	1.6	100	94 - 105
ISE Diluted												
Beckman AU systems	25	104.9	1.0	1.0	105	99 - 111	25	96.1	1.7	1.7	96	91 - 101
Roche Integra	23	105.7	0.9	0.8	106	100 - 111	24	97.5	2.6	2.7	97	92 - 103
Siemens Dimension QuickLyte - Xpand/EXL	31	106.5	1.4	1.3	106	101 - 112	31	98.0	1.5	1.5	98	93 - 103
Vital Diagnostics Envoy 500	12	104.3	1.6	1.5	104	99 - 110	12	99.4	2.5	2.5	99	94 - 105
All Chemistry Instruments	139	105.3	1.8	1.7	105	99 - 111	137	96.7	2.1	2.2	97	91 - 102
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	46	104.7	1.3	1.2	104	99 - 110	45	95.9	1.2	1.3	96	91 - 101
Horiba ABX Pentra 400	14	104.4	2.8	2.7	104	99 - 110	14	96.3	2.8	2.9	97	91 - 102
All Chemistry Instruments	87	104.3	2.0	1.9	104	99 - 110	85	95.9	1.7	1.7	96	91 - 101
VITROS												
VITROS 250,350,500,700,750,950	30	102.0	1.4	1.3	102	96 - 108	30	94.7	1.3	1.3	95	89 - 100
All Chemistry Instruments	36	102.2	1.5	1.5	102	97 - 108	36	94.8	1.4	1.5	95	90 - 100

Method/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	284	88.2	2.7	3.1	88	83 - 93	279	113.2	2.6	2.3	113	107 - 119
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	92	88 - 98	9	-	-	-	113	106 - 119
All Chemistry Instruments	17	92.6	1.1	1.1	93	88 - 98	17	112.5	2.4	2.1	112	106 - 119
ISE Diluted												
Beckman AU systems	24	87.3	1.5	1.7	87	82 - 92	25	112.0	1.6	1.4	112	106 - 118
Roche Integra	22	88.4	2.2	2.5	88	83 - 93	23	114.6	2.1	1.9	114	108 - 121
Siemens Dimension QuickLyte - Xpand/EXL	31	88.6	1.7	2.0	89	84 - 94	31	115.1	1.5	1.3	115	109 - 121
Vital Diagnostics Envoy 500	12	93.8	2.8	3.0	93	89 - 99	11	115.3	1.7	1.5	114	109 - 122
All Chemistry Instruments	137	88.0	2.8	3.2	88	83 - 93	137	113.7	2.3	2.0	114	108 - 120
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	44	87.8	1.2	1.4	88	83 - 93	45	114.0	1.2	1.1	114	108 - 120
Horiba ABX Pentra 400	14	88.4	3.3	3.7	89	83 - 93	12	119.9	5.4	4.5	120	113 - 126
All Chemistry Instruments	87	88.1	2.5	2.8	88	83 - 93	81	113.9	2.2	1.9	114	108 - 120
VITROS												
VITROS 250,350,500,700,750,950	30	86.9	1.4	1.6	87	82 - 92	30	110.1	1.7	1.6	110	104 - 116
All Chemistry Instruments	36	87.0	1.5	1.7	87	82 - 92	36	110.3	1.9	1.7	110	104 - 116

Chloride (mmol/L)

Specimen CH-5

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	278	122.3	4.0	3.3	122	116 - 129
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	119	113 - 126
All Chemistry Instruments	17	119.1	1.4	1.2	119	113 - 126
ISE Diluted						
Beckman AU systems	25	119.2	2.4	2.0	119	113 - 126
Roche Integra	23	124.6	3.4	2.8	124	118 - 131
Siemens Dimension QuickLyte - Xpand/EXL	31	123.0	1.5	1.2	123	116 - 130
Vital Diagnostics Envoy 500	11	126.7	3.6	2.8	126	120 - 134
All Chemistry Instruments	136	122.2	3.5	2.9	122	116 - 129
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	45	125.8	2.2	1.7	125	119 - 133
Horiba ABX Pentra 400	10	126.9	6.2	4.9	127	120 - 134
All Chemistry Instruments	82	124.8	3.8	3.1	125	118 - 132
VITROS						
VITROS 250,350,500,700,750,950	30	118.5	2.3	1.9	119	112 - 125
All Chemistry Instruments	36	118.6	2.3	1.9	119	112 - 125

CO_2 (mmol/L)

Method/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	291	29.3	2.1	7.3	29	23 - 36	292	21.5	2.0	9.4	22	17 - 26
Enzymatic Reagent												
Abaxis Piccolo - waived	17	30.9	0.6	1.8	31	24 - 38	17	22.9	0.8	3.6	23	18 - 28
Alfa Wassermann ACE Alera/Axcel	30	29.7	1.7	5.9	30	23 - 36	30	21.2	1.9	8.8	21	16 - 26
Beckman AU systems	25	30.1	1.6	5.2	30	24 - 37	25	21.8	1.2	5.7	22	17 - 27
Horiba ABX Pentra 400	14	28.6	1.8	6.2	29	22 - 35	14	20.9	1.7	8.3	21	16 - 26
Roche Integra	23	28.5	1.8	6.2	29	22 - 35	22	20.6	1.8	8.7	20	16 - 25
Siemens Dimension	35	30.7	1.7	5.5	30	24 - 37	36	22.6	1.7	7.5	23	18 - 28
All Chemistry Instruments	180	29.8	2.0	6.7	30	23 - 36	180	21.8	1.9	8.7	22	17 - 27
ISE Diluted												
Vital Diagnostics Envoy 500	10	26.5	2.8	10.7	27	21 - 32	11	20.1	3.0	15.0	20	16 - 25
All Chemistry Instruments	29	28.3	1.9	6.9	29	22 - 34	31	20.5	2.1	10.2	21	16 - 25
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	14	30.1	2.0	6.6	30	24 - 37	14	21.2	1.8	8.7	22	16 - 26
All Chemistry Instruments	32	29.3	2.3	7.7	29	23 - 36	32	21.5	2.0	9.4	22	17 - 26
VITROS												
VITROS 250,350,500,700,750,950	29	27.7	1.5	5.4	28	22 - 34	28	20.8	1.2	5.9	21	16 - 25
All Chemistry Instruments	35	27.7	1.4	5.1	28	22 - 34	34	20.8	1.2	5.8	21	16 - 25

Method/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	276	13.8	1.7	12.1	14	11 - 17	282	32.2	2.6	8.1	32	25 - 39
Enzymatic Reagent												
Abaxis Piccolo - waived	8	-	-	-	14	11 - 17	8	-	-	-	33	26 - 40
Alfa Wassermann ACE Alera/Axcel	30	13.7	1.7	12.3	14	10 - 17	30	32.6	2.5	7.7	34	26 - 40
Beckman AU systems	25	14.4	1.2	8.5	14	11 - 18	25	33.3	2.0	5.9	33	26 - 40
Horiba ABX Pentra 400	14	13.6	2.0	14.8	14	10 - 17	13	31.7	1.7	5.2	32	25 - 39
Roche Integra	22	13.3	1.6	12.1	13	10 - 16	23	31.1	1.7	5.5	31	24 - 38
Siemens Dimension	35	14.8	1.5	9.9	15	11 - 18	36	33.8	1.8	5.2	34	27 - 41
All Chemistry Instruments	168	14.1	1.6	11.2	14	11 - 17	171	32.7	2.3	7.1	33	26 - 40
ISE Diluted												
Vital Diagnostics Envoy 500	11	13.0	2.7	20.6	14	10 - 16	11	31.5	3.7	11.6	32	25 - 38
All Chemistry Instruments	31	13.4	1.9	14.4	14	10 - 17	31	31.7	2.6	8.3	32	25 - 39
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	14	13.6	1.5	11.0	14	10 - 17	14	32.7	3.1	9.5	33	26 - 40
All Chemistry Instruments	32	13.9	1.7	12.4	14	11 - 17	32	32.4	3.1	9.7	32	25 - 39
VITROS												
VITROS 250,350,500,700,750,950	29	12.4	1.5	12.1	13	9 - 15	29	29.9	1.7	5.6	30	23 - 36
All Chemistry Instruments	34	12.7	1.2	9.7	13	10 - 16	35	30.0	1.6	5.4	30	24 - 36

CO_2 (mmol/L)

Specimen CH-5

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	278	34.1	2.8	8.3	34	27 - 41
Enzymatic Reagent						
Abaxis Piccolo - waived	8	-	-	-	35	27 - 42
Alfa Wassermann ACE Alera/Axcel	30	34.0	3.3	9.6	35	27 - 41
Beckman AU systems	25	35.3	2.4	6.7	35	28 - 43
Horiba ABX Pentra 400	13	33.8	1.8	5.4	34	27 - 41
Roche Integra	22	32.6	1.9	5.9	32	26 - 40
Siemens Dimension	36	35.8	2.0	5.5	36	28 - 43
All Chemistry Instruments	169	34.5	2.5	7.3	35	27 - 42
ISE Diluted						
Vital Diagnostics Envoy 500	11	35.2	6.4	18.1	36	28 - 43
All Chemistry Instruments	30	33.8	3.3	9.6	34	27 - 41
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	14	34.3	3.1	9.2	35	27 - 42
All Chemistry Instruments	30	34.3	3.1	8.9	35	27 - 42
VITROS						
VITROS 250,350,500,700,750,950	29	31.8	2.1	6.8	32	25 - 39
All Chemistry Instruments	35	32.0	2.1	6.5	32	25 - 39

Potassium (mmol/L)

	Specimen CH-1						Specimen CH-2					
Method/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	304	4.57	0.12	2.7	4.6	4.0 - 5.1	303	3.49	0.09	2.6	3.5	2.9 - 4.0
Abaxis Piccolo												
Abaxis Piccolo - waived	20	4.70	0.20	4.3	4.7	4.2 - 5.2	20	3.39	0.15	4.4	3.4	2.8 - 3.9
All Chemistry Instruments	28	4.69	0.20	4.2	4.7	4.1 - 5.2	28	3.42	0.15	4.4	3.4	2.9 - 4.0
ISE Diluted												
Beckman AU systems	25	4.56	0.06	1.3	4.6	4.0 - 5.1	22	3.50	0.00	0.0	3.5	3.0 - 4.0
Roche Integra	25	4.63	0.06	1.2	4.6	4.1 - 5.2	24	3.54	0.05	1.4	3.5	3.0 - 4.1
Siemens Dimension QuickLyte - Xpand/EXL	31	4.63	0.07	1.5	4.6	4.1 - 5.2	31	3.51	0.05	1.5	3.5	3.0 - 4.1
Vital Diagnostics Envoy 500	11	4.37	0.08	1.8	4.4	3.8 - 4.9	11	3.38	0.06	1.8	3.4	2.8 - 3.9
All Chemistry Instruments	138	4.58	0.10	2.2	4.6	4.0 - 5.1	136	3.49	0.08	2.2	3.5	2.9 - 4.0
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	47	4.60	0.07	1.6	4.6	4.0 - 5.1	47	3.51	0.07	2.1	3.5	3.0 - 4.1
Horiba ABX Pentra 400	15	4.41	0.11	2.5	4.4	3.9 - 5.0	15	3.51	0.08	2.4	3.5	3.0 - 4.1
All Chemistry Instruments	92	4.54	0.13	2.8	4.6	4.0 - 5.1	91	3.50	0.08	2.4	3.5	2.9 - 4.0
VITROS												
VITROS 250,350,500,700,750,950	31	4.53	0.07	1.5	4.5	4.0 - 5.1	30	3.53	0.05	1.3	3.5	3.0 - 4.1
All Chemistry Instruments	39	4.53	0.07	1.5	4.5	4.0 - 5.1	37	3.53	0.05	1.5	3.5	3.0 - 4.1

	Specimen CH-3						Specimen CH-4					
All Method	286	2.44	0.10	4.0	2.4	1.9 - 3.0	290	5.48	0.13	2.3	5.5	4.9 - 6.0
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	1.9	1.6 - 2.6	9	-	-	-	5.3	4.9 - 6.0
All Chemistry Instruments	17	2.10	0.19	9.2	2.2	1.6 - 2.6	17	5.45	0.25	4.6	5.4	4.9 - 6.0
ISE Diluted												
Beckman AU systems	25	2.45	0.06	2.4	2.5	1.9 - 3.0	25	5.42	0.07	1.3	5.4	4.9 - 6.0
Roche Integra	24	2.45	0.06	2.4	2.4	1.9 - 3.0	25	5.51	0.08	1.4	5.5	5.0 - 6.1
Siemens Dimension QuickLyte - Xpand/EXL	28	2.40	0.00	0.0	2.4	1.9 - 2.9	31	5.50	0.06	1.1	5.5	5.0 - 6.1
Vital Diagnostics Envoy 500	11	2.36	0.09	3.9	2.4	1.8 - 2.9	11	5.25	0.11	2.1	5.3	4.7 - 5.8
All Chemistry Instruments	139	2.43	0.08	3.4	2.4	1.9 - 3.0	137	5.46	0.11	2.0	5.5	4.9 - 6.0
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	46	2.45	0.08	3.2	2.4	1.9 - 3.0	47	5.56	0.07	1.3	5.6	5.0 - 6.1
Horiba ABX Pentra 400	15	2.56	0.09	3.6	2.6	2.0 - 3.1	15	5.38	0.10	1.9	5.4	4.8 - 5.9
All Chemistry Instruments	91	2.45	0.10	4.0	2.4	1.9 - 3.0	91	5.49	0.13	2.4	5.5	4.9 - 6.0
VITROS												
VITROS 250,350,500,700,750,950	30	2.51	0.04	1.7	2.5	2.0 - 3.1	32	5.54	0.11	2.0	5.5	5.0 - 6.1
All Chemistry Instruments	39	2.51	0.07	2.9	2.5	2.0 - 3.1	39	5.55	0.09	1.6	5.5	5.0 - 6.1

Potassium (mmol/L)

Specimen CH-5

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	294	6.44	0.24	3.7	6.4	5.9 - 7.0
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	6.2	5.7 - 6.8
All Chemistry Instruments	17	6.25	0.26	4.2	6.2	5.7 - 6.8
ISE Diluted						
Beckman AU systems	25	6.25	0.09	1.4	6.3	5.7 - 6.8
Roche Integra	24	6.41	0.08	1.2	6.4	5.9 - 7.0
Siemens Dimension QuickLyte - Xpand/EXL	31	6.38	0.07	1.1	6.4	5.8 - 6.9
Vital Diagnostics Envoy 500	11	6.07	0.16	2.7	6.1	5.5 - 6.6
All Chemistry Instruments	137	6.33	0.14	2.3	6.4	5.8 - 6.9
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	46	6.77	0.11	1.6	6.8	6.2 - 7.3
Horiba ABX Pentra 400	15	6.41	0.13	2.0	6.4	5.9 - 7.0
All Chemistry Instruments	92	6.55	0.27	4.1	6.6	6.0 - 7.1
VITROS						
VITROS 250,350,500,700,750,950	32	6.60	0.16	2.5	6.6	6.1 - 7.1
All Chemistry Instruments	40	6.61	0.15	2.3	6.6	6.1 - 7.2

Sodium (mmol/L)

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

	Specimen CH-1						Specimen CH-2					
Method/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	302	139.1	2.3	1.7	139	135 - 144	300	129.0	2.1	1.7	129	124 - 133
Abaxis Piccolo												
Abaxis Piccolo - waived	20	141.0	2.0	1.4	141	136 - 145	20	131.1	1.7	1.3	131	127 - 136
All Chemistry Instruments	28	141.3	2.0	1.4	142	137 - 146	28	131.5	1.8	1.3	131	127 - 136
ISE Diluted												
Beckman AU systems	24	137.8	1.2	0.9	138	133 - 142	24	127.6	1.0	0.8	128	123 - 132
Roche Integra	25	139.3	1.1	0.8	139	135 - 144	24	128.5	1.1	0.9	128	124 - 133
Siemens Dimension QuickLyte - Xpand/EXL	32	141.7	1.8	1.2	142	137 - 146	32	130.9	1.4	1.1	131	126 - 135
Vital Diagnostics Envoy 500	11	138.5	1.8	1.3	139	134 - 143	11	128.3	1.7	1.3	128	124 - 133
All Chemistry Instruments	138	139.4	2.2	1.6	139	135 - 144	136	129.0	1.8	1.4	129	125 - 134
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	46	137.4	1.6	1.2	137	133 - 142	46	127.2	1.6	1.2	127	123 - 132
Horiba ABX Pentra 400	15	136.6	1.9	1.4	136	132 - 141	15	128.3	1.6	1.3	128	124 - 133
All Chemistry Instruments	92	137.7	1.9	1.4	137	133 - 142	91	127.8	1.7	1.4	128	123 - 132
VITROS												
VITROS 250,350,500,700,750,950	30	140.1	2.1	1.5	140	136 - 145	30	130.3	1.9	1.5	130	126 - 135
All Chemistry Instruments	36	140.0	2.0	1.5	140	136 - 145	36	130.2	1.8	1.4	130	126 - 135

	Specimen CH-3						Specimen CH-4					
All Method	288	118.8	2.3	1.9	119	114 - 123	289	147.7	2.4	1.7	147	143 - 152
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	123	119 - 128	9	-	-	-	151	146 - 155
All Chemistry Instruments	17	123.6	1.5	1.2	124	119 - 128	17	150.6	1.5	1.0	151	146 - 155
ISE Diluted												
Beckman AU systems	25	116.4	1.3	1.1	116	112 - 121	25	144.7	1.0	0.7	145	140 - 149
Roche Integra	24	117.6	1.1	0.9	118	113 - 122	25	146.3	1.2	0.8	146	142 - 151
Siemens Dimension QuickLyte - Xpand/EXL	32	119.9	1.1	0.9	120	115 - 124	32	147.9	1.6	1.1	148	143 - 152
Vital Diagnostics Envoy 500	11	117.0	1.9	1.6	117	113 - 121	11	146.8	1.3	0.9	147	142 - 151
All Chemistry Instruments	137	118.2	1.8	1.6	118	114 - 123	137	146.5	1.9	1.3	146	142 - 151
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	44	117.4	1.1	0.9	117	113 - 122	46	147.8	1.4	0.9	148	143 - 152
Horiba ABX Pentra 400	15	120.1	1.4	1.1	120	116 - 125	15	148.4	2.4	1.6	148	144 - 153
All Chemistry Instruments	91	118.2	1.8	1.6	118	114 - 123	89	147.5	1.6	1.1	147	143 - 152
VITROS												
VITROS 250,350,500,700,750,950	29	120.9	1.6	1.3	121	116 - 125	30	150.9	1.9	1.3	151	146 - 155
All Chemistry Instruments	35	120.8	1.6	1.3	121	116 - 125	36	150.8	2.0	1.3	151	146 - 155

Sodium (mmol/L)

Specimen CH-5

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	289	156.9	4.7	3.0	156	152 - 161
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	160	156 - 165
All Chemistry Instruments	17	160.7	2.6	1.6	160	156 - 165
ISE Diluted						
Beckman AU systems	25	151.0	1.6	1.1	151	147 - 156
Roche Integra	24	153.3	1.1	0.7	153	149 - 158
Siemens Dimension QuickLyte - Xpand/EXL	32	154.1	1.8	1.1	154	150 - 159
Vital Diagnostics Envoy 500	11	154.2	2.4	1.5	154	150 - 159
All Chemistry Instruments	135	153.3	2.6	1.7	153	149 - 158
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	45	161.4	1.6	1.0	161	157 - 166
Horiba ABX Pentra 400	15	160.0	2.0	1.3	160	156 - 164
All Chemistry Instruments	90	159.1	3.7	2.4	160	155 - 164
VITROS						
VITROS 250,350,500,700,750,950	30	162.5	2.5	1.6	163	158 - 167
All Chemistry Instruments	36	162.6	2.4	1.5	163	158 - 167

TIBC – Calculated (µg/dL)

Method/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	21	130.0	27.2	20.9	138	75 - 185	24	181.6	50.1	27.6	208	81 - 282
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	21	130.0	27.2	20.9	138	75 - 185	24	181.6	50.1	27.6	208	81 - 282

Method/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	24	245.1	61.8	25.2	278	121 - 369	24	240.8	61.0	25.3	275	118 - 363
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	24	245.1	61.8	25.2	278	121 - 369	24	240.8	61.0	25.3	275	118 - 363

Method/Instrument	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	24	361.1	84.2	23.3	407	192 - 530
Calculated TIBC (TRF x CF)						
All Chemistry Instruments	24	361.1	84.2	23.3	407	192 - 530

TIBC – Direct (µg/dL)

Method/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	33	116.4	33.2	28.5	103	50 - 183	31	168.2	26.4	15.7	164	115 - 221
Siemens Healthcare												
Siemens Dimension	19	92.8	10.2	11.0	93	72 - 114	17	151.6	9.3	6.1	151	121 - 182
VITROS												
VITROS 250,350,500,700,750,950	10	245.8	63.9	26.0	261	117 - 374	10	357.3	39.9	11.1	353	277 - 438

Method/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	32	215.0	30.2	14.1	216	154 - 276	30	211.3	25.8	12.2	214	159 - 263
Siemens Healthcare												
Siemens Dimension	18	212.9	11.4	5.4	212	170 - 256	18	212.0	9.5	4.5	214	169 - 255
VITROS												
VITROS 250,350,500,700,750,950	10	512.3	67.9	13.3	565	376 – 649	10	522.5	38.9	7.4	539	418 - 627

Method/Instrument	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	32	282.1	95.5	33.8	334	91 - 474
Siemens Healthcare						
Siemens Dimension	18	336.1	7.8	2.3	338	268 - 404
VITROS						
VITROS 250,350,500,700,750,950	10	876.0	125.6	14.3	842	624 - 1128

UIBC – Direct (µg/dL)

Method/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	31	80.3	6.6	8.2	80	64 - 97	33	90.1	10.3	11.4	89	69 - 111
All Roche Integra/c111/c301/c501 Reagents	14	81.5	7.0	8.6	82	65 - 98	14	88.8	9.0	10.2	89	70 - 107
Beckman AU												
Beckman AU systems	12	78.0	3.8	4.9	79	62 - 94	12	87.5	5.0	5.7	88	70 - 105
Roche Integra												
Roche Integra	10	84.4	5.3	6.2	84	67 - 102	10	92.1	7.5	8.1	91	73 - 111

Method/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	32	96.8	8.3	8.6	99	77 - 117	33	119.5	8.7	7.3	119	95 - 144
All Roche Integra/c111/c301/c501 Reagents	14	95.1	8.2	8.6	96	76 - 115	14	119.4	7.6	6.4	121	95 - 144
Beckman AU												
Beckman AU systems	12	97.5	4.5	4.6	99	78 - 117	12	119.3	3.6	3.0	119	95 - 144
Roche Integra												
Roche Integra	10	97.5	7.2	7.4	99	78 - 117	10	122.7	5.9	4.8	124	98 - 148

Method/Instrument	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	32	155.9	9.4	6.0	158	124 - 188
All Roche Integra/c111/c301/c501 Reagents	14	155.9	8.6	5.5	158	124 - 188
Beckman AU						
Beckman AU systems	12	158.5	4.4	2.8	160	126 - 191
Roche Integra						
Roche Integra	10	158.1	8.2	5.2	160	126 - 190

ALT (SGPT) (IU/L)

	Specimen CH-1						Specimen CH-2					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	296	19.0	7.1	37.6	18	15 - 23	299	137.4	14.0	10.2	138	109 - 165
All Horiba Pentra Reagents	19	17.9	1.0	5.7	18	14 - 22	21	149.4	7.9	5.3	149	119 - 180
All Roche Integra/c111/c301/c501 Reagents	36	15.6	0.8	5.1	16	12 - 19	35	134.8	3.5	2.6	135	107 - 162
All Vital Diagnostics Reagents	20	17.6	1.2	7.0	18	14 - 22	20	151.4	8.0	5.3	152	121 - 182
Abaxis Piccolo												
Abaxis Piccolo - waived	21	22.7	2.6	11.5	23	18 - 28	21	124.8	3.2	2.6	125	99 - 150
All Chemistry Instruments	28	22.1	2.5	11.5	22	17 - 27	28	125.2	3.7	3.0	125	100 - 151
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	45	11.0	1.7	15.8	11	8 - 14	47	118.2	2.7	2.3	118	94 - 142
All Chemistry Instruments	46	11.0	1.7	15.6	11	8 - 14	48	118.2	2.7	2.3	118	94 - 142
Beckman AU												
Beckman AU systems	27	14.7	0.7	5.0	15	11 - 18	27	123.6	2.7	2.1	124	98 - 149
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	17.8	0.9	5.2	18	14 - 22	20	149.3	8.0	5.4	149	119 - 180
Roche Integra												
Roche Integra	28	15.5	0.8	5.4	15	12 - 19	27	134.5	3.5	2.6	134	107 - 162
All Chemistry Instruments	29	15.6	0.9	5.6	15	12 - 19	28	134.8	3.7	2.7	135	107 - 162
Siemens Healthcare												
Siemens Dimension	18	27.0	3.8	14.1	28	21 - 33	18	150.3	4.5	3.0	150	120 - 181
Siemens Healthcare ALTi												
Siemens Dimension	33	18.0	0.9	5.1	18	14 - 22	34	145.6	2.7	1.9	145	116 - 175
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	17.7	1.2	6.9	18	14 - 22	18	152.6	7.4	4.8	153	122 - 184
All Chemistry Instruments	20	17.6	1.2	7.0	18	14 - 22	20	151.4	8.0	5.3	152	121 - 182
VITROS												
VITROS 250,350,500,700,750,950	30	36.1	4.1	11.4	36	28 - 44	30	154.1	4.0	2.6	153	123 - 185
All Chemistry Instruments	36	36.0	4.0	11.2	36	28 - 44	36	154.2	3.9	2.5	154	123 - 186

ALT (SGPT) (IU/L)

	Specimen CH-3						Specimen CH-4					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	286	255.8	23.4	9.2	260	204 - 307	288	60.6	8.1	13.4	61	48 - 73
All Horiba Pentra Reagents	21	280.1	15.4	5.5	278	224 - 337	21	63.7	3.3	5.2	64	50 - 77
All Roche Integra/c111/c301/c501 Reagents	35	251.9	6.8	2.7	253	201 - 303	35	57.6	1.7	3.0	57	46 - 70
All Vital Diagnostics Reagents	17	278.7	19.3	6.9	281	222 - 335	20	65.6	3.1	4.7	66	52 - 79
Abaxis Piccolo												
Abaxis Piccolo - waived	10	226.6	3.7	1.6	228	181 - 272	10	59.2	3.7	6.2	59	47 - 72
All Chemistry Instruments	17	227.4	3.1	1.4	229	181 - 273	17	58.1	3.6	6.1	57	46 - 70
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	47	224.9	5.3	2.4	226	179 - 270	47	48.4	2.5	5.2	48	38 - 59
All Chemistry Instruments	48	224.9	5.2	2.3	226	179 - 270	48	48.4	2.5	5.1	48	38 - 59
Beckman AU												
Beckman AU systems	27	232.6	4.8	2.1	233	186 - 280	27	53.6	1.2	2.2	54	42 - 65
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	279.9	15.8	5.6	278	223 - 336	20	63.8	3.4	5.4	64	51 - 77
Roche Integra												
Roche Integra	27	251.8	6.7	2.7	252	201 - 303	27	57.3	1.6	2.7	57	45 - 69
All Chemistry Instruments	28	252.3	7.0	2.8	253	201 - 303	29	57.7	2.1	3.7	57	46 - 70
Siemens Healthcare												
Siemens Dimension	18	273.3	5.9	2.1	274	218 - 328	18	72.4	4.0	5.5	73	57 - 87
Siemens Healthcare ALTi												
Siemens Dimension	34	270.9	3.6	1.3	271	216 - 326	34	64.4	1.5	2.3	65	51 - 78
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	280.9	19.3	6.9	282	224 - 338	18	66.1	2.8	4.2	66	52 - 80
All Chemistry Instruments	17	278.7	19.3	6.9	281	222 - 335	20	65.6	3.1	4.7	66	52 - 79
VITROS												
VITROS 250,350,500,700,750,950	30	276.9	6.3	2.3	277	221 - 333	30	71.0	3.4	4.7	71	56 - 86
All Chemistry Instruments	36	277.1	5.9	2.1	277	221 - 333	36	71.3	3.2	4.5	71	57 - 86

ALT (SGPT) (IU/L)

Specimen CH-5

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	289	101.6	11.1	10.9	102	81 - 122
All Horiba Pentra Reagents	21	110.9	5.9	5.3	111	88 - 134
All Roche Integra/c111/c301/c501 Reagents	35	98.5	2.6	2.7	99	78 - 119
All Vital Diagnostics Reagents	20	115.9	6.7	5.8	116	92 - 140
Abaxis Piccolo						
Abaxis Piccolo - waived	10	94.5	3.2	3.4	96	75 - 114
All Chemistry Instruments	17	93.9	3.1	3.3	94	75 - 113
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	47	84.9	2.8	3.4	84	67 - 102
All Chemistry Instruments	48	85.0	2.8	3.3	85	67 - 102
Beckman AU						
Beckman AU systems	27	92.9	1.9	2.0	93	74 - 112
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	110.7	6.0	5.4	111	88 - 133
Roche Integra						
Roche Integra	27	98.0	2.4	2.4	98	78 - 118
All Chemistry Instruments	28	98.3	2.7	2.7	98	78 - 118
Siemens Healthcare						
Siemens Dimension	18	115.1	5.5	4.7	114	92 - 139
Siemens Healthcare ALTi						
Siemens Dimension	34	108.6	2.5	2.3	109	86 - 131
Vital Diagnostics						
Vital Diagnostics Envoy 500	18	117.4	5.1	4.4	117	93 - 141
All Chemistry Instruments	20	115.9	6.7	5.8	116	92 - 140
VITROS						
VITROS 250,350,500,700,750,950	30	107.0	5.7	5.3	108	85 - 129
All Chemistry Instruments	36	107.0	5.5	5.1	108	85 - 129

Alkaline Phosphatase (IU/L)

	Specimen CH-1						Specimen CH-2					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	288	22.1	3.5	16.0	22	15 - 29	299	183.0	31.4	17.2	189	128 - 238
All Alfa Wassermann Reagents	47	21.5	1.6	7.5	21	15 - 28	48	187.5	11.6	6.2	189	131 - 244
All Horiba Pentra Reagents	21	24.9	3.2	12.9	25	17 - 33	21	216.8	15.7	7.2	214	151 - 282
All Roche Integra/c111/c301/c501 Reagents	34	22.1	1.3	5.9	22	15 - 29	34	198.1	7.6	3.8	198	138 - 258
All Vital Diagnostics Reagents	19	24.1	3.2	13.4	24	16 - 32	19	175.4	12.0	6.8	176	122 - 229
Abaxis Piccolo												
Abaxis Piccolo - waived	20	20.9	4.1	19.8	21	14 - 28	20	137.0	7.4	5.4	137	95 - 179
All Chemistry Instruments	28	20.6	5.0	24.2	21	14 - 27	28	138.0	6.7	4.8	138	96 - 180
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	46	21.6	1.5	7.1	22	15 - 29	47	187.9	11.4	6.1	189	131 - 245
All Chemistry Instruments	47	21.5	1.6	7.5	21	15 - 28	48	187.5	11.6	6.2	189	131 - 244
Beckman AU												
Beckman AU systems	27	19.5	1.7	8.9	19	13 - 26	27	174.6	16.0	9.2	177	122 - 227
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	24.5	2.8	11.5	25	17 - 32	20	214.8	13.2	6.1	213	150 - 280
Roche Integra												
Roche Integra	26	22.0	1.4	6.4	22	15 - 29	26	197.1	6.3	3.2	198	137 - 257
All Chemistry Instruments	27	22.0	1.4	6.3	22	15 - 29	27	196.8	6.4	3.3	197	137 - 256
Siemens Healthcare												
Siemens Dimension	25	32.1	6.6	20.4	30	22 - 42	26	222.8	12.8	5.8	221	155 - 290
Siemens Healthcare ALPi												
Siemens Dimension	26	23.5	2.2	9.4	24	16 - 31	26	218.4	5.1	2.4	219	152 - 284
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	23.7	2.7	11.3	24	16 - 31	18	177.3	8.9	5.0	178	124 - 231
All Chemistry Instruments	19	24.1	3.2	13.4	24	16 - 32	19	175.4	12.0	6.8	176	122 - 229
VITROS												
VITROS 250,350,500,700,750,950	29	21.3	2.4	11.1	21	14 - 28	30	136.8	7.9	5.8	136	95 - 178
All Chemistry Instruments	35	21.2	2.2	10.5	21	14 - 28	36	135.9	7.7	5.7	135	95 - 177

Alkaline Phosphatase (IU/L)

	Specimen CH-3						Specimen CH-4					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	288	348.9	69.1	19.8	366	244 - 454	284	66.0	8.8	13.3	66	46 - 86
All Alfa Wassermann Reagents	47	361.9	21.1	5.8	365	253 - 471	48	66.0	4.3	6.5	66	46 - 86
All Horiba Pentra Reagents	21	416.0	31.1	7.5	411	291 - 541	21	76.0	6.0	7.9	75	53 - 99
All Roche Integra/c111/c301/c501 Reagents	34	381.1	12.0	3.1	381	266 - 496	34	67.5	2.6	3.9	67	47 - 88
All Vital Diagnostics Reagents	19	334.8	19.8	5.9	337	234 - 436	19	64.7	5.1	7.9	65	45 - 85
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	247	173 - 324	9	-	-	-	52	36 - 69
All Chemistry Instruments	17	248.5	9.0	3.6	249	173 - 324	17	52.4	4.2	8.1	53	36 - 69
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	47	361.9	21.1	5.8	365	253 - 471	47	66.2	4.1	6.2	66	46 - 87
All Chemistry Instruments	47	361.9	21.1	5.8	365	253 - 471	48	66.0	4.3	6.5	66	46 - 86
Beckman AU												
Beckman AU systems	27	336.2	29.4	8.7	341	235 - 438	27	61.3	4.9	8.0	61	42 - 80
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	412.5	27.1	6.6	411	288 - 537	19	76.2	3.6	4.8	75	53 - 100
Roche Integra												
Roche Integra	26	381.3	11.5	3.0	381	266 - 496	26	67.2	2.6	3.9	67	47 - 88
All Chemistry Instruments	27	380.6	11.8	3.1	380	266 - 495	27	67.1	2.6	3.9	67	46 - 88
Siemens Healthcare												
Siemens Dimension	26	425.8	19.7	4.6	427	298 - 554	25	81.6	8.8	10.8	79	57 - 107
Siemens Healthcare ALPi												
Siemens Dimension	26	422.3	9.6	2.3	421	295 - 550	26	75.2	2.7	3.5	76	52 - 98
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	337.9	14.8	4.4	339	236 - 440	18	65.5	3.8	5.8	66	45 - 86
All Chemistry Instruments	19	334.8	19.8	5.9	337	234 - 436	19	64.7	5.1	7.9	65	45 - 85
VITROS												
VITROS 250,350,500,700,750,950	30	220.6	11.9	5.4	220	154 - 287	30	57.3	4.3	7.5	57	40 - 75
All Chemistry Instruments	36	220.2	10.9	5.0	219	154 - 287	36	56.9	4.1	7.2	56	39 - 75

Alkaline Phosphatase (IU/L)

Specimen CH-5

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	288	113.5	15.7	13.8	114	79 - 148
All Alfa Wassermann Reagents	48	113.4	7.0	6.2	114	79 - 148
All Horiba Pentra Reagents	21	129.3	9.9	7.7	130	90 - 169
All Roche Integra/c111/c301/c501 Reagents	34	115.9	4.2	3.6	116	81 - 151
All Vital Diagnostics Reagents	19	108.4	10.4	9.6	108	75 - 141
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	89	61 - 114
All Chemistry Instruments	17	87.5	2.7	3.1	88	61 - 114
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	47	113.7	6.8	6.0	114	79 - 148
All Chemistry Instruments	48	113.4	7.0	6.2	114	79 - 148
Beckman AU						
Beckman AU systems	27	106.6	8.7	8.2	108	74 - 139
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	128.0	8.0	6.3	129	89 - 167
Roche Integra						
Roche Integra	26	115.6	3.6	3.1	115	80 - 151
All Chemistry Instruments	27	115.5	3.6	3.1	114	80 - 151
Siemens Healthcare						
Siemens Dimension	26	136.2	10.8	7.9	134	95 - 178
Siemens Healthcare ALPi						
Siemens Dimension	26	130.8	3.8	2.9	131	91 - 171
Vital Diagnostics						
Vital Diagnostics Envoy 500	18	110.1	7.8	7.1	109	77 - 144
All Chemistry Instruments	19	108.4	10.4	9.6	108	75 - 141
VITROS						
VITROS 250,350,500,700,750,950	30	96.4	7.2	7.5	96	67 - 126
All Chemistry Instruments	36	96.0	6.8	7.0	96	67 - 125

AST (SGOT) (IU/L)

	Specimen CH-1						Specimen CH-2					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	299	18.6	5.1	27.6	18	14 - 23	299	132.7	17.1	12.9	128	106 - 160
All Horiba Pentra Reagents	21	16.8	2.3	14.0	17	13 - 21	21	128.7	9.3	7.3	128	102 - 155
All Roche Integra/c111/c301/c501 Reagents	35	16.2	1.1	6.6	16	12 - 20	35	126.3	5.6	4.4	127	101 - 152
All Vital Diagnostics Reagents	19	19.0	2.4	12.4	18	15 - 23	19	136.2	6.7	4.9	137	108 - 164
Abaxis Piccolo												
Abaxis Piccolo - waived	21	21.0	1.7	8.2	21	16 - 26	21	123.7	4.1	3.3	124	98 - 149
All Chemistry Instruments	27	21.1	1.8	8.3	21	16 - 26	28	124.4	4.5	3.6	125	99 - 150
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	48	11.6	2.1	18.1	11	9 - 14	48	116.1	5.4	4.6	116	92 - 140
All Chemistry Instruments	49	11.6	2.1	18.0	11	9 - 14	49	116.1	5.3	4.6	116	92 - 140
Beckman AU												
Beckman AU systems	27	14.9	1.0	6.5	15	11 - 18	27	112.4	4.1	3.7	113	89 - 135
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	16.8	2.4	14.3	17	13 - 21	20	128.2	9.3	7.2	128	102 - 154
Roche Integra												
Roche Integra	27	16.0	1.0	6.3	16	12 - 20	27	126.2	5.6	4.4	127	100 - 152
All Chemistry Instruments	28	16.1	1.0	6.3	16	12 - 20	28	126.0	5.7	4.5	127	100 - 152
Siemens Healthcare												
Siemens Dimension	52	26.1	2.4	9.1	26	20 - 32	52	157.0	5.3	3.4	157	125 - 189
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	18.9	2.4	12.6	18	15 - 23	18	135.7	6.6	4.8	137	108 - 163
All Chemistry Instruments	19	19.0	2.4	12.4	18	15 - 23	19	136.2	6.7	4.9	137	108 - 164
VITROS												
VITROS 250,350,500,700,750,950	30	22.6	0.8	3.6	23	18 - 28	30	151.8	6.2	4.1	151	121 - 183
All Chemistry Instruments	36	22.7	0.8	3.6	23	18 - 28	36	152.6	6.0	3.9	152	122 - 184

AST (SGOT) (IU/L)

	Specimen CH-3						Specimen CH-4					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	289	243.1	31.0	12.8	235	194 - 292	289	58.2	10.8	18.5	54	46 - 70
All Horiba Pentra Reagents	21	236.2	16.3	6.9	237	188 - 284	21	55.0	4.2	7.7	55	44 - 67
All Roche Integra/c111/c301/c501 Reagents	35	230.1	10.9	4.7	231	184 - 277	35	52.8	2.5	4.7	53	42 - 64
All Vital Diagnostics Reagents	19	245.5	11.9	4.8	248	196 - 295	19	58.4	3.5	6.0	58	46 - 71
Abaxis Piccolo												
Abaxis Piccolo - waived	10	221.4	7.0	3.1	222	177 - 266	10	55.5	3.8	6.9	54	44 - 67
All Chemistry Instruments	17	224.0	8.4	3.8	225	179 - 269	17	55.4	3.2	5.8	54	44 - 67
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	48	216.2	9.4	4.4	216	172 - 260	48	46.3	3.5	7.5	46	37 - 56
All Chemistry Instruments	49	216.1	9.4	4.3	216	172 - 260	49	46.2	3.5	7.5	46	36 - 56
Beckman AU												
Beckman AU systems	27	203.9	7.7	3.8	205	163 - 245	27	47.7	1.9	4.0	48	38 - 58
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	235.4	16.2	6.9	237	188 - 283	20	54.9	4.3	7.8	55	43 - 66
Roche Integra												
Roche Integra	27	229.8	11.2	4.9	231	183 - 276	27	52.4	2.4	4.6	53	41 - 63
All Chemistry Instruments	28	229.3	11.3	4.9	231	183 - 276	28	52.4	2.4	4.5	53	41 - 63
Siemens Healthcare												
Siemens Dimension	52	286.5	9.4	3.3	286	229 - 344	52	73.4	3.2	4.4	73	58 - 89
Vital Diagnostics												
Vital Diagnostics Envoy 500	18	244.4	11.3	4.6	246	195 - 294	18	58.4	3.6	6.1	58	46 - 71
All Chemistry Instruments	19	245.5	11.9	4.8	248	196 - 295	19	58.4	3.5	6.0	58	46 - 71
VITROS												
VITROS 250,350,500,700,750,950	30	277.8	9.7	3.5	277	222 - 334	30	71.3	2.8	3.9	71	57 - 86
All Chemistry Instruments	36	279.4	10.2	3.7	278	223 - 336	36	71.5	2.7	3.8	72	57 - 86

AST (SGOT) (IU/L)

Specimen CH-5

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	289	96.3	17.2	17.9	91	77 - 116
All Horiba Pentra Reagents	21	91.1	7.2	7.9	89	72 - 110
All Roche Integra/c111/c301/c501 Reagents	35	87.1	4.4	5.0	87	69 - 105
All Vital Diagnostics Reagents	19	98.9	4.9	4.9	101	79 - 119
Abaxis Piccolo						
Abaxis Piccolo - waived	10	87.7	3.6	4.1	89	70 - 106
All Chemistry Instruments	17	89.8	4.6	5.1	90	71 - 108
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	48	78.6	4.6	5.8	77	62 - 95
All Chemistry Instruments	49	78.5	4.6	5.8	77	62 - 95
Beckman AU						
Beckman AU systems	27	79.6	3.2	4.0	80	63 - 96
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	90.6	6.9	7.7	89	72 - 109
Roche Integra						
Roche Integra	27	86.7	4.2	4.8	87	69 - 105
All Chemistry Instruments	28	86.6	4.1	4.8	87	69 - 104
Siemens Healthcare						
Siemens Dimension	52	119.5	4.4	3.7	120	95 - 144
Vital Diagnostics						
Vital Diagnostics Envoy 500	18	98.8	5.0	5.0	101	79 - 119
All Chemistry Instruments	19	98.9	4.9	4.9	101	79 - 119
VITROS						
VITROS 250,350,500,700,750,950	30	119.4	5.2	4.4	119	95 - 144
All Chemistry Instruments	36	119.6	4.9	4.1	119	95 - 144

Creatine Kinase (IU/L)

Instrument/Reagent	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	129	26.5	3.7	13.9	26	18 - 35	131	93.9	10.2	10.8	93	65 - 123
All Roche Integra/c111/c301/c501 Reagents	19	30.7	2.8	9.3	32	21 - 40	19	107.8	4.0	3.7	108	75 - 141
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	29.8	4.3	14.5	29	20 - 39	18	92.5	6.1	6.6	92	64 - 121
Beckman AU												
Beckman AU systems	19	24.7	1.1	4.3	25	17 - 33	18	88.3	2.2	2.5	88	61 - 115
Roche Integra												
Roche Integra	14	30.5	3.2	10.3	32	21 - 40	14	106.9	3.4	3.2	107	74 - 139
All Chemistry Instruments	15	30.5	3.0	10.0	32	21 - 40	15	106.9	3.3	3.1	107	74 - 140
Siemens Healthcare												
Siemens Dimension	10	24.9	1.2	4.8	25	17 - 33	10	92.7	2.5	2.7	92	64 - 121
Siemens Healthcare CKI												
Siemens Dimension	20	24.6	1.8	7.5	24	17 - 32	20	92.3	2.9	3.2	93	64 - 120
VITROS												
All Chemistry Instruments	12	21.1	1.6	7.7	20	14 - 28	12	81.9	5.7	6.9	83	57 - 107

Instrument/Reagent	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	127	161.6	14.6	9.0	161	113 - 211	127	186.0	19.4	10.5	186	130 - 242
All Roche Integra/c111/c301/c501 Reagents	19	183.6	6.5	3.5	183	128 - 239	19	213.8	7.5	3.5	213	149 - 278
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	154.0	8.9	5.8	152	107 - 201	18	178.3	9.4	5.3	178	124 - 232
Beckman AU												
Beckman AU systems	18	151.8	4.1	2.7	151	106 - 198	18	177.1	3.7	2.1	178	123 - 231
Roche Integra												
Roche Integra	14	181.6	4.3	2.4	181	127 - 237	14	211.6	5.3	2.5	212	148 - 276
All Chemistry Instruments	15	181.9	4.3	2.4	181	127 - 237	15	211.7	5.1	2.4	213	148 - 276
Siemens Healthcare												
Siemens Dimension	10	161.0	3.4	2.1	161	112 - 210	10	187.5	4.8	2.6	188	131 - 244
Siemens Healthcare CKI												
Siemens Dimension	20	159.4	5.8	3.6	162	111 - 208	20	185.0	5.7	3.1	186	129 - 241
VITROS												
All Chemistry Instruments	12	151.4	8.8	5.8	155	105 - 197	12	148.8	12.7	8.5	154	104 - 194

Creatine Kinase (IU/L)

Specimen CH-5

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	127	345.3	37.8	11.0	347	241 - 449
All Roche Integra/c111/c301/c501 Reagents	19	398.5	14.7	3.7	397	278 - 519
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	18	325.1	16.6	5.1	322	227 - 423
Beckman AU						
Beckman AU systems	18	332.2	5.3	1.6	332	232 - 432
Roche Integra						
Roche Integra	14	393.9	10.8	2.7	395	275 - 513
All Chemistry Instruments	15	394.3	10.5	2.7	395	275 - 513
Siemens Healthcare						
Siemens Dimension	10	351.0	7.5	2.1	352	245 - 457
Siemens Healthcare CKI						
Siemens Dimension	20	347.2	9.2	2.7	349	243 - 452
VITROS						
All Chemistry Instruments	12	277.4	14.6	5.3	278	194 - 361

GGT (IU/L)

	Specimen CH-1						Specimen CH-2					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	71	24.9	6.5	26.3	23	11 - 38	71	92.8	19.4	20.9	86	54 - 132
All Roche Integra/c111/c301/c501 Reagents	11	19.9	0.8	4.2	20	15 - 24	11	80.5	2.5	3.1	80	64 - 97
Siemens Healthcare												
Siemens Dimension	14	33.9	2.4	7.2	34	27 - 41	14	111.6	3.1	2.8	112	89 - 134

	Specimen CH-3						Specimen CH-4					
All Method	69	159.4	30.6	19.2	149	98 - 221	68	60.1	13.5	22.5	57	33 - 88
All Roche Integra/c111/c301/c501 Reagents	11	139.8	3.6	2.6	140	111 - 168	10	50.5	1.4	2.7	51	40 - 61
Siemens Healthcare												
Siemens Dimension	14	189.9	4.8	2.5	190	151 - 228	14	74.6	3.0	4.1	75	59 - 90

	Specimen CH-5					
All Method	69	94.6	20.2	21.4	88	54 - 136
All Roche Integra/c111/c301/c501 Reagents	11	80.4	1.7	2.2	81	64 - 97
Siemens Healthcare						
Siemens Dimension	14	116.6	3.9	3.3	117	93 - 140

Amylase (IU/L)

Instrument/Reagent	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	88	20.9	4.4	21.0	20	14 - 28	89	77.9	17.8	22.9	82	54 - 102
All Roche Integra/c111/c301/c501 Reagents	15	20.1	0.4	1.7	20	14 - 27	15	80.3	1.2	1.5	80	56 - 105
Beckman AU												
Beckman AU systems	13	14.2	1.0	7.1	14	9 - 19	13	68.8	3.8	5.6	69	48 - 90
Roche Integra												
Roche Integra	11	20.0	0.0	0.0	20	14 - 26	12	80.2	1.1	1.4	80	56 - 105
All Chemistry Instruments	13	20.2	0.4	1.9	20	14 - 27	13	80.3	1.2	1.5	80	56 - 105
Siemens Healthcare												
Siemens Dimension	16	20.5	0.9	4.4	20	14 - 27	16	97.3	1.4	1.4	97	68 - 127
VITROS												
VITROS 250,350,500,700,750,950	10	27.0	9.1	33.9	30	18 - 36	10	39.8	4.6	11.5	39	27 - 52
All Chemistry Instruments	10	30.0	0.0	0.0	30	21 - 39	12	39.8	4.6	11.5	39	27 - 52

Instrument/Reagent	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	87	139.2	29.1	20.9	142	97 - 181	86	48.6	8.4	17.2	52	34 - 64
All Roche Integra/c111/c301/c501 Reagents	15	138.4	1.8	1.3	138	96 - 180	15	51.9	1.2	2.3	52	36 - 68
Beckman AU												
Beckman AU systems	13	122.2	6.3	5.1	123	85 - 159	13	39.5	2.5	6.3	40	27 - 52
Roche Integra												
Roche Integra	12	138.0	1.7	1.2	138	96 - 180	12	51.8	1.0	1.9	52	36 - 68
All Chemistry Instruments	13	138.3	1.9	1.4	138	96 - 180	13	51.9	1.1	2.1	52	36 - 68
Siemens Healthcare												
Siemens Dimension	16	173.0	2.6	1.5	173	121 - 225	16	54.3	1.2	2.2	55	38 - 71
VITROS												
VITROS 250,350,500,700,750,950	10	81.5	4.1	5.1	82	57 - 106	10	30.2	10.7	35.6	33	21 - 40
All Chemistry Instruments	12	81.2	4.3	5.3	82	56 - 106	11	33.3	3.3	9.8	35	23 - 44

Instrument/Reagent	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	87	78.9	11.3	14.3	82	55 - 103
All Roche Integra/c111/c301/c501 Reagents	15	82.5	2.1	2.5	82	57 - 108
Beckman AU						
Beckman AU systems	13	63.5	3.2	5.0	64	44 - 83
Roche Integra						
Roche Integra	12	82.0	1.7	2.0	82	57 - 107
All Chemistry Instruments	13	82.4	2.1	2.6	82	57 - 108
Siemens Healthcare						
Siemens Dimension	16	88.2	1.0	1.2	88	61 - 115
VITROS						
VITROS 250,350,500,700,750,950	10	62.6	9.2	14.7	62	43 - 82
All Chemistry Instruments	12	62.5	8.4	13.5	62	43 - 82

Lactate Dehydrogenase (IU/L)

Instrument/Reagent	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	76	95.0	10.8	11.3	99	76 - 115	76	401.1	45.0	11.2	424	320 - 482
All Alfa Wassermann Reagents	9	80.0	2.9	3.6	81	64 - 96	9	313.7	9.5	3.0	316	250 - 377
All Horiba Pentra Reagents	8	106.8	7.0	6.6	105	85 - 129	8	435.1	16.4	3.8	427	348 - 523
All Roche Integra/c111/c301/c501 Reagents	18	103.6	2.6	2.5	105	82 - 125	18	436.5	9.5	2.2	434	349 - 524
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	9	80.0	2.9	3.6	81	64 - 96	9	313.7	9.5	3.0	316	250 - 377
Beckman AU												
Beckman AU systems	11	85.5	4.3	5.1	85	68 - 103	11	370.1	12.6	3.4	367	296 - 445
Horiba ABX Pentra												
Horiba ABX Pentra 400	7	107.4	7.3	6.8	105	85 - 129	7	437.0	16.8	3.8	430	349 - 525
Roche Integra												
Roche Integra	13	104.1	2.4	2.3	105	83 - 125	13	438.1	9.7	2.2	434	350 - 526
All Chemistry Instruments	14	104.0	2.4	2.3	105	83 - 125	14	437.1	9.9	2.3	434	349 - 525
Siemens Healthcare LDI												
Siemens Dimension	8	97.1	3.4	3.5	96	77 - 117	8	433.5	14.7	3.4	433	346 - 521
VITROS												
VITROS 250,350,500,700,750,950	8	325.1	9.6	2.9	321	260 - 391	8	1435.4	25.8	1.8	1439	1148 - 1723
All Chemistry Instruments	11	327.1	12.1	3.7	322	261 - 393	11	1444.5	27.0	1.9	1443	1155 - 1734

Instrument/Reagent	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	76	694.7	85.7	12.3	743	555 - 834	75	162.3	18.0	11.1	172	129 - 195
All Alfa Wassermann Reagents	9	529.6	15.9	3.0	532	423 - 636	9	131.3	5.3	4.0	133	105 - 158
All Horiba Pentra Reagents	8	765.5	41.7	5.4	760	612 - 919	8	178.1	9.5	5.3	179	142 - 214
All Roche Integra/c111/c301/c501 Reagents	17	751.2	16.1	2.1	749	600 - 902	17	176.5	3.7	2.1	176	141 - 212
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	9	529.6	15.9	3.0	532	423 - 636	9	131.3	5.3	4.0	133	105 - 158
Beckman AU												
Beckman AU systems	11	644.2	23.7	3.7	636	515 - 774	11	147.5	5.3	3.6	146	117 - 177
Horiba ABX Pentra												
Horiba ABX Pentra 400	7	771.1	41.6	5.4	765	616 - 926	7	180.1	8.2	4.5	181	144 - 217
Roche Integra												
Roche Integra	13	755.6	26.9	3.6	757	604 - 907	13	177.1	3.4	1.9	176	141 - 213
All Chemistry Instruments	14	754.4	26.3	3.5	751	603 - 906	13	177.1	3.4	1.9	176	141 - 213
Siemens Healthcare LDI												
Siemens Dimension	8	756.9	17.3	2.3	756	605 - 909	8	173.8	10.2	5.8	172	139 - 209
VITROS												
VITROS 250,350,500,700,750,950	8	2400.4	156.8	6.5	2363	1920 - 2881	8	564.3	7.7	1.4	566	451 - 678
All Chemistry Instruments	11	2455.1	165.2	6.7	2510	1964 - 2947	11	564.6	6.5	1.2	565	451 - 678

Lactate Dehydrogenase (IU/L)

Specimen CH-5

All Method	76	227.6	26.3	11.6	242	182 - 274
All Alfa Wassermann Reagents	9	178.3	6.4	3.6	180	142 - 214
All Horiba Pentra Reagents	8	251.8	13.3	5.3	251	201 - 303
All Roche Integra/c111/c301/c501 Reagents	18	245.9	4.2	1.7	246	196 - 296
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	9	178.3	6.4	3.6	180	142 - 214
Beckman AU						
Beckman AU systems	11	207.4	9.1	4.4	208	165 - 249
Horiba ABX Pentra						
Horiba ABX Pentra 400	7	254.0	12.7	5.0	253	203 - 305
Roche Integra						
Roche Integra	13	245.8	4.1	1.7	246	196 - 295
All Chemistry Instruments	14	245.7	3.9	1.6	246	196 - 295
Siemens Healthcare LDI						
Siemens Dimension	8	243.8	6.7	2.7	244	195 - 293
VITROS						
VITROS 250,350,500,700,750,950	8	780.6	18.6	2.4	785	624 - 937
All Chemistry Instruments	11	779.8	16.1	2.1	782	623 - 936

Lipase (IU/L)

Instrument/Reagent	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	34	12.5	3.6	29.0	14	8 - 17	33	19.6	3.0	15.5	22	13 - 26
All Roche Integra/c111/c301/c501 Reagents	12	13.2	0.7	5.5	13	9 - 18	12	21.2	0.9	4.4	21	14 - 28
Beckman AU												
Beckman AU systems	7	9.1	2.7	29.9	8	6 - 12	7	16.6	2.1	12.5	16	11 - 22
Horiba ABX Pentra												
Horiba ABX Pentra 400	5	13.6	1.9	14.3	15	9 - 18	5	20.6	2.3	11.2	21	14 - 27
Roche Integra												
Roche Integra	10	13.3	0.7	5.1	13	9 - 18	10	21.3	0.7	3.2	21	14 - 28
All Chemistry Instruments	11	13.3	0.6	4.9	13	9 - 18	11	21.4	0.7	3.2	21	14 - 28
Siemens Healthcare												
Siemens Dimension	10	54.3	3.5	6.5	55	38 - 71	10	86.4	3.2	3.7	87	60 - 113
VITROS												
VITROS 250,350,500,700,750,950	7	127.6	4.3	3.4	128	89 - 166	7	257.1	6.5	2.5	255	179 - 335
All Chemistry Instruments	9	125.4	6.1	4.9	124	87 - 164	9	255.0	7.3	2.9	254	178 - 332

Instrument/Reagent	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	33	27.0	2.8	10.4	29	18 - 36	32	58.3	6.3	10.8	64	40 - 76
All Roche Integra/c111/c301/c501 Reagents	12	28.8	1.4	4.9	29	20 - 38	11	58.8	3.3	5.5	60	41 - 77
Beckman AU												
Beckman AU systems	7	24.3	2.0	8.1	23	17 - 32	7	63.0	2.5	4.0	63	44 - 82
Horiba ABX Pentra												
Horiba ABX Pentra 400	5	26.8	1.6	6.1	26	18 - 35	5	49.2	2.6	5.3	50	34 - 64
Roche Integra												
Roche Integra	10	29.1	1.2	4.1	29	20 - 38	10	59.6	2.1	3.5	60	41 - 78
All Chemistry Instruments	11	29.1	1.1	3.9	29	20 - 38	10	59.6	2.1	3.5	60	41 - 78
Siemens Healthcare												
Siemens Dimension	10	116.0	3.5	3.0	117	81 - 151	10	231.0	6.1	2.6	232	161 - 301
VITROS												
VITROS 250,350,500,700,750,950	7	361.7	15.8	4.4	367	253 - 471	7	882.0	15.4	1.7	872	617 - 1147
All Chemistry Instruments	9	360.8	14.1	3.9	363	252 - 470	9	883.3	13.9	1.6	882	618 - 1149

Instrument/Reagent	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	34	99.7	16.7	16.8	114	69 - 130
All Roche Integra/c111/c301/c501 Reagents	12	100.7	5.3	5.2	102	70 - 131
Beckman AU						
Beckman AU systems	7	111.4	5.0	4.5	109	78 - 145
Horiba ABX Pentra						
Horiba ABX Pentra 400	5	85.6	4.1	4.8	83	59 - 112
Roche Integra						
Roche Integra	10	101.8	3.8	3.8	103	71 - 133
All Chemistry Instruments	11	101.8	3.6	3.6	102	71 - 133
Siemens Healthcare						
Siemens Dimension	10	398.7	9.6	2.4	403	279 - 519
VITROS						
VITROS 250,350,500,700,750,950	7	1546.9	50.8	3.3	1542	1082 - 2011
All Chemistry Instruments	9	1554.0	46.5	3.0	1547	1087 - 2021

Alpha-fetoprotein (AFP) (ng/mL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	0.72	0.44	60.9	1.0	0.0 - 2.1	5	74.48	2.54	3.4	73.5	66.8 - 82.2
	Specimen CH-3						**Specimen CH-4**					
All Method	5	146.32	4.04	2.8	145.1	134.2 - 158.5	5	163.32	7.39	4.5	160.2	141.1 - 185.5
	Specimen CH-5											
All Method	5	318.70	8.79	2.8	315.7	292.3 - 345.1						

Cortisol (µg/dL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	15	4.49	0.88	19.6	4.8	3.3 - 5.7	13	8.62	1.12	13.0	8.8	6.4 - 10.8
	Specimen CH-3						**Specimen CH-4**					
All Method	15	13.48	1.40	10.4	13.5	10.1 - 16.9	15	18.78	1.79	9.5	18.8	14.0 - 23.5
	Specimen CH-5											
All Method	15	34.23	2.42	7.1	34.5	25.6 - 42.8						

T_3 Uptake (percent)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	27	51.91	8.97	17.3	52.6	25.0 - 78.9	26	49.56	5.08	10.2	49.0	34.3 - 64.8
Beckman ACCESS / 2 / DxI	10	60.37	2.30	3.8	60.9	53.4 - 67.3	10	54.53	1.77	3.3	54.3	49.2 - 59.9

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	26	47.37	4.11	8.7	47.0	35.0 - 59.8	26	48.81	4.95	10.1	48.0	33.9 - 63.7
Beckman ACCESS / 2 / DxI	10	51.70	2.22	4.3	51.8	45.0 - 58.4	10	54.08	2.55	4.7	54.1	46.4 - 61.8

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	26	46.78	3.33	7.1	46.0	36.7 - 56.8
Beckman ACCESS / 2 / DxI	10	48.85	3.05	6.3	48.4	39.6 - 58.1

Triiodothyronine (ng/mL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	37	0.69	0.12	17.8	0.7	0.3 - 1.1	37	0.92	0.17	18.1	1.0	0.4 - 1.5
All TOSOH Instruments	10	2.46	0.32	13.2	2.4	1.4 - 3.5	10	3.10	0.37	11.9	3.1	1.9 - 4.3
Beckman ACCESS / 2 / DxI	17	0.73	0.08	11.6	0.7	0.4 - 1.0	17	1.02	0.13	12.2	1.0	0.6 - 1.4

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	37	1.11	0.21	18.7	1.2	0.4 - 1.8	37	1.56	0.27	17.1	1.7	0.7 - 2.4
All TOSOH Instruments	10	3.69	0.46	12.4	3.7	2.3 - 5.1	10	4.70	0.45	9.5	4.7	3.3 - 6.1
Beckman ACCESS / 2 / DxI	17	1.24	0.13	10.7	1.2	0.8 - 1.7	17	1.77	0.17	9.7	1.7	1.2 - 2.3

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	37	2.35	0.58	24.7	2.6	0.6 - 4.1
All TOSOH Instruments	10	6.27	0.73	11.6	6.3	4.0 - 8.5
Beckman ACCESS / 2 / DxI	17	2.86	0.32	11.3	2.8	1.8 - 3.9

Free T_3 (pg/mL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	31	2.38	0.47	19.6	2.5	0.9 - 3.8	31	3.00	0.46	15.5	3.2	1.6 - 4.4
All TOSOH Instruments	12	3.56	0.25	7.1	3.6	2.7 - 4.4	12	4.81	0.50	10.3	4.8	3.3 - 6.3
Beckman ACCESS / 2 / DxI	13	2.32	0.15	6.3	2.3	1.8 - 2.8	13	3.00	0.20	6.8	3.0	2.3 - 3.7
	Specimen CH-3						**Specimen CH-4**					
All Method	31	3.51	0.53	15.1	3.6	1.9 - 5.1	30	4.73	0.68	14.4	4.9	2.6 - 6.8
All TOSOH Instruments	12	6.12	0.68	11.2	6.2	4.0 - 8.2	12	9.48	0.84	8.9	9.6	6.9 - 12.1
Beckman ACCESS / 2 / DxI	13	3.57	0.26	7.2	3.5	2.8 - 4.4	13	4.62	0.48	10.5	4.5	3.1 - 6.1
	Specimen CH-5											
All Method	31	6.46	1.19	18.4	6.5	2.8 - 10.1						
All TOSOH Instruments	12	13.48	1.15	8.5	13.5	10.0 - 17.0						
Beckman ACCESS / 2 / DxI	12	5.75	0.29	5.1	5.8	4.8 - 6.7						

Thyroxine (µg/dL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	35	2.96	0.53	18.0	3.1	1.9 - 4.0	34	4.71	0.48	10.1	5.0	3.7 - 5.8
All TOSOH Instruments	12	2.91	0.25	8.5	3.0	1.9 - 4.0	12	4.82	0.36	7.6	4.9	3.8 - 5.9
Beckman ACCESS / 2 / DxI	12	3.65	0.54	14.9	3.6	2.6 - 4.7	12	5.88	0.72	12.3	5.7	4.7 - 7.1
Siemens Dimension	12	3.20	0.46	14.3	3.2	2.2 - 4.2	12	4.63	0.37	7.9	4.7	3.6 - 5.7
	Specimen CH-3						**Specimen CH-4**					
All Method	35	6.39	0.76	11.9	6.5	5.1 - 7.7	35	8.34	0.75	9.0	8.6	6.6 - 10.1
All TOSOH Instruments	12	6.74	0.62	9.1	6.7	5.3 - 8.1	12	8.71	0.53	6.1	8.8	6.9 - 10.5
Beckman ACCESS / 2 / DxI	12	7.83	0.84	10.7	7.6	6.2 - 9.4	12	10.33	1.00	9.7	10.1	8.2 - 12.4
Siemens Dimension	12	6.33	0.59	9.3	6.5	5.0 - 7.6	12	8.18	0.73	9.0	8.3	6.5 - 9.9
	Specimen CH-5											
All Method	33	13.38	1.27	9.5	13.8	10.7 - 16.1						
All TOSOH Instruments	12	13.53	0.94	6.9	13.4	10.8 - 16.3						
Beckman ACCESS / 2 / DxI	12	14.51	1.03	7.1	14.2	11.6 - 17.5						
Siemens Dimension	12	13.65	0.94	6.9	13.6	10.9 - 16.4						

Free Thyroxine (ng/dL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	191	1.30	0.37	28.6	1.3	0.1 - 2.5	192	1.79	0.49	27.2	1.8	0.3 - 3.3
All DPC Immulite Instruments	11	1.74	0.10	5.9	1.7	1.4 - 2.1	11	2.23	0.10	4.5	2.2	1.9 - 2.6
All Roche Elecsys/Cobas Instruments	12	1.43	0.08	5.3	1.4	1.1 - 1.7	12	1.98	0.10	5.2	2.0	1.6 - 2.3
All TOSOH Instruments	41	1.64	0.14	8.5	1.6	1.2 - 2.1	41	2.28	0.16	6.9	2.3	1.8 - 2.8
Abbott Architect	20	1.00	0.03	0.0	1.0	0.9 - 1.1	20	1.60	0.08	5.2	1.6	1.3 - 1.9
Beckman ACCESS / 2 / DxI	45	1.32	0.09	7.0	1.3	1.0 - 1.7	45	1.58	0.10	6.3	1.6	1.2 - 1.9
bioMerieux Vidas, Mini Vidas	24	0.60	0.06	9.1	0.6	0.4 - 0.8	24	0.95	0.08	8.8	1.0	0.6 - 1.2
Siemens Dimension	28	1.35	0.13	9.5	1.3	0.9 - 1.8	28	2.04	0.27	13.3	1.9	1.2 - 2.9
TOSOH AIA	17	1.63	0.17	10.4	1.6	1.1 - 2.2	17	2.26	0.18	8.0	2.2	1.7 - 2.9
TOSOH ST AIA	24	1.65	0.12	7.1	1.7	1.2 - 2.1	24	2.28	0.14	6.1	2.3	1.8 - 2.8

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	192	2.18	0.57	26.0	2.3	0.4 - 3.9	191	2.87	0.70	24.3	2.9	0.7 - 5.0
All DPC Immulite Instruments	11	2.58	0.12	4.5	2.6	2.2 - 3.0	11	2.95	0.16	5.6	3.0	2.4 - 3.5
All Roche Elecsys/Cobas Instruments	12	2.38	0.10	4.3	2.4	2.0 - 2.7	12	3.01	0.17	5.6	3.0	2.5 - 3.6
All TOSOH Instruments	41	2.73	0.18	6.6	2.8	2.1 - 3.3	41	3.65	0.21	5.7	3.7	3.0 - 4.3
Abbott Architect	20	2.18	0.09	4.1	2.2	1.9 - 2.5	20	2.92	0.16	5.5	2.9	2.4 - 3.4
Beckman ACCESS / 2 / DxI	45	1.80	0.11	5.9	1.8	1.4 - 2.2	45	2.46	0.14	5.6	2.5	2.0 - 2.9
bioMerieux Vidas, Mini Vidas	23	1.17	0.09	8.0	1.2	0.8 - 1.5	23	1.60	0.15	9.3	1.6	1.1 - 2.1
Siemens Dimension	28	2.51	0.31	12.5	2.4	1.5 - 3.5	28	3.26	0.31	9.6	3.2	2.3 - 4.3
TOSOH AIA	17	2.74	0.20	7.2	2.7	2.1 - 3.4	17	3.61	0.21	5.8	3.7	2.9 - 4.3
TOSOH ST AIA	24	2.72	0.17	6.2	2.8	2.2 - 3.3	24	3.68	0.20	5.6	3.7	3.0 - 4.3

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	192	3.81	0.89	23.3	3.9	1.1 - 6.5
All DPC Immulite Instruments	11	3.73	0.21	5.8	3.8	3.0 - 4.4
All Roche Elecsys/Cobas Instruments	12	4.08	0.28	6.9	4.1	3.2 - 5.0
All TOSOH Instruments	41	4.75	0.24	5.1	4.7	4.0 - 5.5
Abbott Architect	19	4.55	0.29	6.3	4.5	3.6 - 5.5
Beckman ACCESS / 2 / DxI	45	3.08	0.17	5.6	3.0	2.5 - 3.6
bioMerieux Vidas, Mini Vidas	24	2.39	0.16	6.9	2.4	1.8 - 2.9
Siemens Dimension	28	4.28	0.35	8.1	4.3	3.2 - 5.4
TOSOH AIA	17	4.72	0.26	5.5	4.7	3.9 - 5.5
TOSOH ST AIA	24	4.78	0.23	4.8	4.7	4.0 - 5.5

TSH (μU/mL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	263	0.31	0.05	16.6	0.3	0.1 - 0.5	266	1.81	0.19	10.4	1.8	1.2 - 2.4
All Abbott Instruments	22	0.27	0.05	16.7	0.3	0.1 - 0.5	22	1.67	0.07	4.2	1.7	1.4 - 1.9
All DPC Immulite Instruments	11	0.30	0.01	0.0	0.3	0.3 - 0.3	11	1.75	0.20	11.2	1.7	1.1 - 2.4
All Roche Elecsys/Cobas Instruments	14	0.40	0.01	0.0	0.4	0.3 - 0.5	15	1.88	0.08	4.1	1.9	1.6 - 2.2
All TOSOH Instruments	57	0.36	0.05	13.8	0.4	0.2 - 0.6	57	1.98	0.17	8.6	2.0	1.4 - 2.5
Abbott Architect	22	0.27	0.05	16.7	0.3	0.1 - 0.5	22	1.67	0.07	4.2	1.7	1.4 - 1.9
Beckman ACCESS / 2 / DxI	52	0.30	0.02	0.0	0.3	0.2 - 0.4	54	1.71	0.11	6.2	1.7	1.3 - 2.1
bioMerieux Vidas, Mini Vidas	46	0.30	0.01	0.0	0.3	0.2 - 0.4	48	1.88	0.09	4.7	1.9	1.6 - 2.2
Siemens Dimension	40	0.28	0.04	14.5	0.3	0.1 - 0.5	40	1.68	0.11	6.6	1.7	1.3 - 2.1
TOSOH AIA	24	0.35	0.05	14.4	0.4	0.2 - 0.6	24	1.96	0.22	11.4	2.0	1.2 - 2.7
TOSOH ST AIA	33	0.36	0.05	13.4	0.4	0.2 - 0.6	33	2.00	0.12	5.9	2.0	1.6 - 2.4

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	263	3.19	0.32	10.0	3.2	2.2 - 4.2	264	6.03	0.62	10.2	5.9	4.1 - 7.9
All Abbott Instruments	22	2.96	0.12	4.1	3.0	2.5 - 3.4	22	5.55	0.26	4.7	5.5	4.7 - 6.4
All DPC Immulite Instruments	11	3.25	0.18	5.6	3.3	2.7 - 3.8	11	5.88	0.19	3.2	5.9	5.3 - 6.5
All Roche Elecsys/Cobas Instruments	15	3.09	0.14	4.5	3.1	2.6 - 3.6	15	5.90	0.27	4.6	5.9	5.0 - 6.8
All TOSOH Instruments	57	3.46	0.31	8.8	3.5	2.5 - 4.4	56	6.43	0.45	6.9	6.4	5.0 - 7.8
Abbott Architect	22	2.96	0.12	4.1	3.0	2.5 - 3.4	22	5.55	0.26	4.7	5.5	4.7 - 6.4
Beckman ACCESS / 2 / DxI	54	2.99	0.20	6.6	3.0	2.3 - 3.6	54	5.69	0.34	5.9	5.7	4.6 - 6.8
bioMerieux Vidas, Mini Vidas	48	3.39	0.18	5.4	3.4	2.8 - 4.0	47	6.65	0.33	5.0	6.7	5.6 - 7.7
Siemens Dimension	40	2.94	0.21	7.3	2.9	2.2 - 3.6	40	5.59	0.37	6.6	5.6	4.4 - 6.8
TOSOH AIA	24	3.44	0.38	11.0	3.5	2.3 - 4.6	24	6.33	0.63	9.9	6.4	4.4 - 8.3
TOSOH ST AIA	32	3.51	0.19	5.3	3.5	2.9 - 4.1	33	6.46	0.36	5.7	6.4	5.3 - 7.6

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	263	10.79	1.20	11.1	10.7	7.1 - 14.4
All Abbott Instruments	21	10.32	0.34	3.3	10.3	9.2 - 11.4
All DPC Immulite Instruments	11	10.93	0.62	5.6	11.0	9.0 - 12.8
All Roche Elecsys/Cobas Instruments	15	9.80	0.45	4.6	9.7	8.4 - 11.2
All TOSOH Instruments	57	11.50	0.95	8.3	11.6	8.6 - 14.4
Abbott Architect	21	10.32	0.34	3.3	10.3	9.2 - 11.4
Beckman ACCESS / 2 / DxI	54	9.60	0.69	7.2	9.6	7.5 - 11.7
bioMerieux Vidas, Mini Vidas	48	11.85	0.62	5.2	11.9	9.9 - 13.8
Siemens Dimension	39	10.54	0.74	7.0	10.7	8.3 - 12.8
TOSOH AIA	24	11.45	1.29	11.2	11.6	7.5 - 15.4
TOSOH ST AIA	33	11.53	0.62	5.4	11.6	9.6 - 13.4

Serum hCG – Qualitative

	Specimen HCG-1		Specimen HCG-2	
Method	***Positive***	***Negative***	***Positive***	***Negative***
ALL METHODS	139	1	140	-
AimStep Combo Pregnancy	2	-	2	-
Alere Clearview hCG Combo II	5	-	5	-
Beckman Coulter ICON 25 hCG	6	-	6	-
Cardinal Health SP Brand combo	6	-	6	-
CONSULT diagnostics hCG Combo	11	-	11	-
Henry Schein One Step + Combo	4	1	5	-
LifeSign Status hCG	1	-	1	-
McKesson hCG Combo Cassette	6	-	6	-
NDC Pro Advantage	1	-	1	-
Polymedco Poly stat hCG	2	-	2	-
PSS Select hCG Combo	2	-	2	-
Quidel QuickVue + One-Step	12	-	12	-
Quidel QuickVue One-Step Combo	69	-	69	-
Sekisui OSOM hCG Combo Test	4	-	4	-
Stanbio QUPID Plus	3	-	3	-
Sure-Vue hCG	1	-	1	-
Sure-Vue hCG-STAT	1	-	1	-

	Specimen HCG-3		Specimen HCG-4	
ALL METHODS	-	140	140	-
AimStep Combo Pregnancy	-	2	2	-
Alere Clearview hCG Combo II	-	5	5	-
Beckman Coulter ICON 25 hCG	-	6	6	-
Cardinal Health SP Brand combo	-	6	6	-
CONSULT diagnostics hCG Combo	-	11	11	-
Henry Schein One Step + Combo	-	5	5	-
LifeSign Status hCG	-	1	1	-
McKesson hCG Combo Cassette	-	6	6	-
NDC Pro Advantage	-	1	1	-
Polymedco Poly stat hCG	-	2	2	-
PSS Select hCG Combo	-	2	2	-
Quidel QuickVue + One-Step	-	12	12	-
Quidel QuickVue One-Step Combo	-	69	69	-
Sekisui OSOM hCG Combo Test	-	4	4	-
Stanbio QUPID Plus	-	3	3	-
Sure-Vue hCG	-	1	1	-
Sure-Vue hCG-STAT	-	1	1	-

Serum hCG – Qualitative

Specimen HCG-5

Method	*Positive*	*Negative*
ALL METHODS	1	139
AimStep Combo Pregnancy	-	2
Alere Clearview hCG Combo II	-	5
Beckman Coulter ICON 25 hCG	-	6
Cardinal Health SP Brand combo	-	6
CONSULT diagnostics hCG Combo	-	11
Henry Schein One Step + Combo	-	5
LifeSign Status hCG	-	1
McKesson hCG Combo Cassette	-	6
NDC Pro Advantage	-	1
Polymedco Poly stat hCG	-	2
PSS Select hCG Combo	-	2
Quidel QuickVue + One-Step	-	12
Quidel QuickVue One-Step Combo	1	68
Sekisui OSOM hCG Combo Test	-	4
Stanbio QUPID Plus	-	3
Sure-Vue hCG	-	1
Sure-Vue hCG-STAT	-	1

Serum hCG – Quantitative (mIU/mL)

Specimen HCG-1

Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	25	53.9	12.3	22.9	58	16 - 91

Specimen HCG-2

Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	22	3113.7	869.2	27.9	3332	506 - 5722

Specimen HCG-3

Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	27	1.1	0.9	75.2	1	0 - 4

Specimen HCG-4

Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	23	1116.7	296.6	26.6	1201	226 - 2007

Specimen HCG-5

Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	26	1.2	1.0	82.2	1	0 - 5

Cholesterol, Total (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	289	105.6	4.6	4.3	106	95 - 117	295	141.3	5.6	4.0	141	127 - 156
All Alfa Wassermann Reagents	43	107.3	2.5	2.3	108	96 - 119	42	141.0	3.1	2.2	142	126 - 156
All Horiba Pentra Reagents	17	107.5	3.0	2.8	108	96 - 119	17	143.2	3.6	2.5	143	128 - 158
All Roche Integra/c111/c301/c501 Reagents	30	107.5	3.7	3.4	107	96 - 119	30	143.4	5.0	3.5	144	129 - 158
All Vital Diagnostics Reagents	16	108.7	6.6	6.0	108	97 - 120	17	146.2	7.8	5.4	145	131 - 161
Alere Cholestech LDX												
Cholestech LDX - waived	42	107.2	4.3	4.0	107	96 - 118	42	145.6	6.1	4.2	144	131 - 161
All Chemistry Instruments	47	107.0	4.3	4.0	107	96 - 118	47	145.2	6.1	4.2	144	130 - 160
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	43	107.3	2.5	2.3	108	96 - 119	42	141.0	3.1	2.2	142	126 - 156
Beckman AU												
Beckman AU systems	24	103.9	2.4	2.3	104	93 - 115	24	139.0	2.9	2.1	139	125 - 153
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	107.4	3.1	2.9	108	96 - 119	16	143.0	3.5	2.5	143	128 - 158
Roche Integra												
Roche Integra	22	106.4	3.3	3.1	106	95 - 118	22	142.0	4.5	3.2	142	127 - 157
All Chemistry Instruments	23	106.8	3.7	3.5	106	96 - 118	23	142.5	5.2	3.6	142	128 - 157
Siemens Healthcare												
Siemens Dimension	46	104.6	3.1	2.9	105	94 - 116	46	137.5	3.2	2.3	138	123 - 152
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	108.7	6.8	6.3	108	97 - 120	16	146.2	8.1	5.5	145	131 - 161
All Chemistry Instruments	16	108.7	6.6	6.0	108	97 - 120	17	146.2	7.8	5.4	145	131 - 161
VITROS												
VITROS 250,350,500,700,750,950	23	96.8	3.7	3.9	97	87 - 107	23	135.0	3.8	2.8	136	121 - 149
All Chemistry Instruments	28	96.3	3.7	3.9	97	86 - 106	28	134.5	4.2	3.1	135	121 - 148

Cholesterol, Total (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	254	176.7	6.5	3.7	176	158 - 195	256	169.2	6.4	3.8	169	152 - 187
All Alfa Wassermann Reagents	43	175.2	4.0	2.3	175	157 - 193	43	168.3	3.6	2.2	169	151 - 186
All Horiba Pentra Reagents	17	180.3	4.9	2.7	180	162 - 199	17	171.5	5.5	3.2	173	154 - 189
All Roche Integra/c111/c301/c501 Reagents	30	178.5	5.8	3.2	178	160 - 197	30	171.1	6.1	3.6	170	153 - 189
All Vital Diagnostics Reagents	17	185.4	10.8	5.8	183	166 - 204	17	176.1	10.2	5.8	173	158 - 194
Alere Cholestech LDX												
Cholestech LDX - waived	13	184.0	7.2	3.9	182	165 - 203	13	180.9	6.0	3.3	183	162 - 200
All Chemistry Instruments	14	184.1	6.9	3.8	184	165 - 203	14	180.4	6.1	3.4	183	162 - 199
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	43	175.2	4.0	2.3	175	157 - 193	43	168.3	3.6	2.2	169	151 - 186
Beckman AU												
Beckman AU systems	24	173.5	3.4	2.0	173	156 - 191	24	167.4	3.5	2.1	167	150 - 185
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	180.2	5.1	2.8	180	162 - 199	16	171.4	5.7	3.3	173	154 - 189
Roche Integra												
Roche Integra	22	177.0	5.4	3.0	177	159 - 195	22	169.5	5.4	3.2	170	152 - 187
All Chemistry Instruments	23	177.5	5.8	3.3	177	159 - 196	23	170.1	6.2	3.6	170	153 - 188
Siemens Healthcare												
Siemens Dimension	46	169.5	4.1	2.4	170	152 - 187	47	165.7	4.7	2.8	166	149 - 183
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	185.5	11.2	6.0	183	166 - 205	16	176.3	10.5	6.0	173	158 - 194
All Chemistry Instruments	17	185.4	10.8	5.8	183	166 - 204	17	176.1	10.2	5.8	173	158 - 194
VITROS												
VITROS 250,350,500,700,750,950	23	177.9	5.2	2.9	179	160 - 196	23	163.1	4.7	2.9	165	146 - 180
All Chemistry Instruments	28	177.6	5.6	3.1	178	159 - 196	28	163.3	5.1	3.1	165	146 - 180

Cholesterol, Total (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	250	231.8	7.9	3.4	232	208 - 256
All Alfa Wassermann Reagents	43	229.8	4.7	2.0	231	206 - 253
All Horiba Pentra Reagents	17	233.5	6.1	2.6	235	210 - 257
All Roche Integra/c111/c301/c501 Reagents	30	233.2	8.3	3.6	232	209 - 257
All Vital Diagnostics Reagents	17	242.1	11.0	4.5	238	217 - 267
Alere Cholestech LDX						
Cholestech LDX - waived	13	250.1	12.4	5.0	253	225 - 276
All Chemistry Instruments	14	250.2	12.0	4.8	253	225 - 276
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	43	229.8	4.7	2.0	231	206 - 253
Beckman AU						
Beckman AU systems	24	229.3	4.3	1.9	230	206 - 253
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	233.3	6.3	2.7	234	209 - 257
Roche Integra						
Roche Integra	22	231.0	7.7	3.3	232	207 - 255
All Chemistry Instruments	23	231.8	8.5	3.7	232	208 - 256
Siemens Healthcare						
Siemens Dimension	47	226.3	6.3	2.8	226	203 - 249
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	242.4	11.3	4.6	238	218 - 267
All Chemistry Instruments	17	242.1	11.0	4.5	238	217 - 267
VITROS						
VITROS 250,350,500,700,750,950	23	228.2	6.0	2.6	228	205 - 251
All Chemistry Instruments	28	230.1	8.1	3.5	229	207 - 254

LDL Cholesterol - Calculated (mg/dL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	206	27.7	12.4	44.8	26	2 - 53	207	41.8	14.7	35.2	40	12 - 72
Calculated-Trig/5												
Cholestech LDX - waived	30	23.1	6.1	26.2	24	10 - 36	32	38.9	8.1	20.7	39	22 - 55
Alfa Wassermann ACE Alera/Axcel	30	40.4	4.4	10.8	41	28 - 53	30	58.4	5.2	8.9	58	40 - 76
Beckman AU systems	15	36.3	6.8	18.8	34	22 - 50	15	50.9	7.8	15.4	49	35 - 67
Roche Integra	16	14.3	5.7	39.7	14	2 - 26	17	26.8	8.5	31.6	29	9 - 44
Siemens Dimension	23	12.6	5.8	45.7	12	1 - 25	23	23.7	8.3	34.9	22	7 - 41
Vital Diagnostics Envoy 500	12	33.3	10.0	30.0	33	13 - 54	12	47.9	13.0	27.2	50	21 - 74
VITROS 250,350,500,700,750,950	17	22.6	4.5	19.8	23	13 - 32	16	33.8	5.2	15.5	34	23 - 45
All Chemistry Instruments	193	27.6	12.6	45.5	26	2 - 53	194	41.8	14.9	35.6	41	12 - 72

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	173	57.8	19.4	33.6	57	19 - 97	174	52.9	14.2	26.8	52	24 - 82
Calculated-Trig/5												
Cholestech LDX - waived	5	-	-	-	62	18 - 98	6	-	-	-	48	24 - 82
Alfa Wassermann ACE Alera/Axcel	30	76.5	4.9	6.4	77	53 - 100	30	65.7	4.1	6.2	65	45 - 86
Beckman AU systems	15	64.2	10.9	17.0	61	42 - 87	15	57.0	9.0	15.7	58	39 - 75
Roche Integra	17	41.5	11.7	28.2	44	18 - 65	17	42.6	9.6	22.4	44	23 - 62
Siemens Dimension	23	32.9	9.5	29.0	32	13 - 52	22	39.8	7.6	19.1	39	24 - 55
Vital Diagnostics Envoy 500	12	65.7	17.4	26.5	68	30 - 101	12	57.3	15.3	26.7	54	26 - 88
VITROS 250,350,500,700,750,950	17	45.0	5.8	12.9	44	31 - 59	17	40.4	6.5	16.0	41	27 - 54
All Chemistry Instruments	162	57.9	19.7	34.0	57	18 - 98	163	52.7	14.2	26.8	52	24 - 82

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	166	78.5	16.3	20.8	80	45 - 112
Calculated-Trig/5						
Cholestech LDX - waived	2	-	-	-	104	46 - 111
Alfa Wassermann ACE Alera/Axcel	30	90.9	6.1	6.7	91	63 - 119
Beckman AU systems	15	75.4	11.7	15.5	74	52 - 99
Roche Integra	17	78.6	13.2	16.8	80	52 - 106
Siemens Dimension	22	73.2	10.7	14.7	73	51 - 96
Vital Diagnostics Envoy 500	12	77.2	16.0	20.8	77	45 - 110
VITROS 250,350,500,700,750,950	17	55.8	6.6	11.8	56	39 - 73
All Chemistry Instruments	155	78.8	15.9	20.2	80	46 - 111

LDL Cholesterol - Direct (mg/dL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	92	27.8	8.3	29.7	27	11 - 45	93	40.5	11.6	28.7	39	17 - 64
Beckman AU Direct HDL / LDL												
Beckman AU systems	12	19.1	2.2	11.7	19	13 - 25	12	29.0	2.7	9.4	30	20 - 38
Roche LDL Direct												
All Chemistry Instruments	11	42.9	6.0	14.0	44	30 - 56	11	62.4	6.1	9.8	64	43 - 82
Siemens Automated LDL												
Siemens Dimension	25	30.1	3.3	10.9	30	21 - 40	24	43.1	4.6	10.7	43	30 - 57

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	92	53.5	15.0	27.9	52	23 - 84	92	54.0	12.5	23.2	54	28 - 80
Beckman AU Direct HDL / LDL												
Beckman AU systems	12	38.5	3.5	9.0	39	26 - 51	12	40.8	3.3	8.0	41	28 - 53
Roche LDL Direct												
All Chemistry Instruments	11	82.8	7.2	8.7	84	57 - 108	11	77.8	5.8	7.5	79	54 - 102
Siemens Automated LDL												
Siemens Dimension	24	55.3	4.5	8.2	56	38 - 72	25	57.0	3.9	6.8	58	39 - 75

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	92	80.9	15.8	19.5	80	49 - 113
Beckman AU Direct HDL / LDL						
Beckman AU systems	12	63.8	4.9	7.7	64	44 - 83
Roche LDL Direct						
All Chemistry Instruments	11	110.2	6.9	6.2	111	77 - 144
Siemens Automated LDL						
Siemens Dimension	25	84.0	5.0	5.9	85	58 - 110

Cholesterol, HDL (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	285	58.0	11.8	20.3	56	40 - 76	284	76.5	13.5	17.7	77	53 - 100
All Dex-Sulfate 50,000 MW Methods	78	57.7	9.7	16.8	60	40 - 75	77	76.1	11.9	15.6	79	53 - 99
All Direct Methods	155	58.5	13.3	22.7	55	40 - 77	154	76.7	15.1	19.7	75	53 - 100
All Phosphotungstic Acid Methods	13	59.1	9.0	15.3	57	41 - 77	13	76.5	10.5	13.7	73	53 - 100
Alere Cholestech LDX												
Cholestech LDX - waived	37	64.6	5.3	8.2	64	45 - 84	36	83.9	5.0	6.0	85	58 - 110
All Chemistry Instruments	42	64.7	5.1	7.9	64	45 - 85	41	84.4	5.2	6.2	85	59 - 110
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	20	45.6	3.4	7.4	46	31 - 60	19	60.2	4.1	6.8	60	42 - 79
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	45.9	2.4	5.3	46	40 - 76	24	60.6	3.6	5.9	61	53 - 100
Beckman AU Direct HDL / LDL												
Beckman AU systems	18	48.9	2.5	5.2	50	34 - 64	19	66.9	5.4	8.1	69	46 - 87
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	43.8	4.6	10.6	45	30 - 57	13	60.2	5.0	8.3	62	42 - 79
Roche HDL Direct												
Roche Integra	15	71.9	1.8	2.5	71	50 - 94	15	91.9	1.9	2.1	92	64 - 120
All Chemistry Instruments	20	71.6	1.8	2.6	71	50 - 94	20	91.3	2.2	2.4	91	63 - 119
Siemens Automated HDL												
Siemens Dimension	41	72.4	3.7	5.2	73	50 - 95	41	91.3	4.5	4.9	91	63 - 119
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	16	52.7	2.7	5.2	52	36 - 69	16	76.1	4.3	5.7	76	53 - 99
All Chemistry Instruments	19	52.5	2.7	5.1	52	36 - 69	19	75.9	4.1	5.4	74	53 - 99

Cholesterol, HDL (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	251	94.1	15.8	16.8	98	65 - 123	251	80.5	11.4	14.1	81	56 - 105
All Dex-Sulfate 50,000 MW Methods	47	88.6	15.3	17.3	82	62 - 116	47	79.3	14.0	17.7	71	55 - 104
All Direct Methods	155	94.9	16.4	17.3	95	66 - 124	155	80.9	11.5	14.2	82	56 - 106
All Phosphotungstic Acid Methods	13	95.2	10.7	11.2	97	66 - 124	13	82.0	6.7	8.1	82	57 - 107
Alere Cholestech LDX												
Cholestech LDX - waived	10	98.9	1.9	1.9	100	69 - 129	10	98.5	2.5	2.5	100	68 - 129
All Chemistry Instruments	11	99.0	1.8	1.9	100	69 - 129	11	98.6	2.4	2.5	100	69 - 129
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	20	76.0	6.1	8.0	75	53 - 99	20	66.9	4.8	7.1	67	46 - 87
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	75.3	4.2	5.6	75	65 - 123	24	67.5	2.7	4.0	68	56 - 105
Beckman AU Direct HDL / LDL												
Beckman AU systems	19	84.8	6.1	7.2	87	59 - 111	19	75.0	5.1	6.7	75	52 - 98
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	77.5	6.9	8.9	80	54 - 101	13	69.4	5.0	7.2	71	48 - 91
Roche HDL Direct												
Roche Integra	15	109.3	2.4	2.1	109	76 - 143	15	89.9	2.3	2.5	90	62 - 117
All Chemistry Instruments	20	108.8	2.7	2.5	109	76 - 142	20	89.1	2.8	3.1	89	62 - 116
Siemens Automated HDL												
Siemens Dimension	40	109.1	5.4	5.0	109	76 - 142	41	90.3	4.6	5.1	91	63 - 118
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	16	103.3	5.7	5.5	102	72 - 135	16	81.7	4.5	5.5	82	57 - 107
All Chemistry Instruments	19	103.2	5.2	5.1	102	72 - 135	19	81.2	4.3	5.4	81	56 - 106

Cholesterol, HDL (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	245	100.7	11.1	11.1	100	70 - 131
All Dex-Sulfate 50,000 MW Methods	46	99.7	14.6	14.6	95	69 - 130
All Direct Methods	151	99.6	10.3	10.3	99	69 - 130
All Phosphotungstic Acid Methods	13	104.8	5.6	5.4	105	73 - 137
Alere Cholestech LDX						
Cholestech LDX - waived	9	-	-	-	100	71 - 133
All Chemistry Instruments	10	102.3	7.3	7.1	100	71 - 133
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	20	88.1	7.0	7.9	87	61 - 115
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	89.3	3.8	4.3	89	70 - 131
Beckman AU Direct HDL / LDL						
Beckman AU systems	19	102.2	6.6	6.5	104	71 - 133
Horiba ABX Pentra						
Horiba ABX Pentra 400	13	93.5	8.6	9.2	97	65 - 122
Roche HDL Direct						
Roche Integra	16	101.8	4.6	4.5	101	71 - 133
All Chemistry Instruments	21	100.7	4.6	4.5	100	70 - 131
Siemens Automated HDL						
Siemens Dimension	41	100.8	5.3	5.3	102	70 - 132
VITROS dHDL Slide						
VITROS 250,350,500,700,750,950	16	112.1	7.9	7.1	110	78 - 146
All Chemistry Instruments	19	112.7	8.3	7.3	111	78 - 147

Triglycerides (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	287	101.0	5.2	5.2	101	75 - 127	287	113.8	5.8	5.1	113	85 - 143
All Alfa Wassermann Reagents	43	103.9	3.1	3.0	104	77 - 130	44	112.9	3.8	3.3	114	84 - 142
All Horiba Pentra Reagents	17	102.1	3.0	2.9	102	76 - 128	17	115.8	5.2	4.5	116	86 - 145
All Roche Integra/c111/c301/c501 Reagents	31	103.0	3.7	3.6	102	77 - 129	31	113.6	4.6	4.0	113	85 - 143
All Vital Diagnostics Reagents	17	103.3	3.9	3.8	102	77 - 130	17	116.1	5.1	4.4	115	87 - 146
Alere Cholestech LDX												
Cholestech LDX - waived	37	100.9	3.2	3.2	101	75 - 127	35	111.6	3.3	2.9	112	83 - 140
All Chemistry Instruments	42	100.6	3.3	3.3	100	75 - 126	40	111.0	3.7	3.3	111	83 - 139
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	43	103.9	3.1	3.0	104	77 - 130	44	112.9	3.8	3.3	114	84 - 142
Beckman AU												
Beckman AU systems	24	100.7	3.3	3.2	101	75 - 126	24	115.0	3.5	3.1	116	86 - 144
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	102.0	2.9	2.8	102	76 - 128	15	115.9	5.1	4.4	116	86 - 145
All Chemistry Instruments	16	102.3	3.0	2.9	102	76 - 128	16	116.2	5.1	4.4	117	87 - 146
Roche Integra												
Roche Integra	22	101.5	2.5	2.5	102	76 - 127	23	112.1	4.1	3.6	112	84 - 141
All Chemistry Instruments	23	101.5	2.5	2.4	102	76 - 127	24	112.3	4.0	3.6	112	84 - 141
Siemens Healthcare												
Siemens Dimension	46	93.5	3.0	3.2	94	70 - 117	47	110.1	3.6	3.3	110	82 - 138
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	103.4	4.0	3.9	103	77 - 130	16	116.2	5.2	4.5	115	87 - 146
All Chemistry Instruments	17	103.3	3.9	3.8	102	77 - 130	17	116.1	5.1	4.4	115	87 - 146
VITROS												
VITROS 250,350,500,700,750,950	23	106.6	6.2	5.8	106	79 - 134	23	125.2	6.9	5.5	127	93 - 157
All Chemistry Instruments	28	105.0	6.8	6.5	106	78 - 132	28	123.3	7.7	6.2	124	92 - 155

Triglycerides (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	254	126.6	8.0	6.3	125	94 - 159	245	182.5	7.5	4.1	182	136 - 229
All Alfa Wassermann Reagents	44	120.5	4.6	3.8	121	90 - 151	42	180.4	4.3	2.4	181	135 - 226
All Horiba Pentra Reagents	17	125.8	3.9	3.1	125	94 - 158	17	183.2	5.5	3.0	184	137 - 229
All Roche Integra/c111/c301/c501 Reagents	31	123.4	5.2	4.2	123	92 - 155	31	180.8	6.2	3.4	181	135 - 227
All Vital Diagnostics Reagents	17	129.4	6.6	5.1	128	97 - 162	17	185.8	8.5	4.6	184	139 - 233
Alere Cholestech LDX												
Cholestech LDX - waived	12	125.2	5.0	4.0	125	93 - 157	11	187.2	6.8	3.6	186	140 - 234
All Chemistry Instruments	13	124.5	5.3	4.2	124	93 - 156	12	186.2	7.4	4.0	186	139 - 233
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	44	120.5	4.6	3.8	121	90 - 151	42	180.4	4.3	2.4	181	135 - 226
Beckman AU												
Beckman AU systems	24	128.0	3.9	3.1	128	96 - 161	24	183.8	5.5	3.0	183	137 - 230
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	125.9	3.6	2.9	125	94 - 158	15	183.5	5.4	3.0	184	137 - 230
All Chemistry Instruments	16	126.2	3.7	3.0	126	94 - 158	16	183.7	5.3	2.9	184	137 - 230
Roche Integra												
Roche Integra	23	121.7	4.3	3.5	122	91 - 153	23	179.2	5.9	3.3	180	134 - 225
All Chemistry Instruments	24	121.8	4.2	3.5	122	91 - 153	24	179.3	5.8	3.2	180	134 - 225
Siemens Healthcare												
Siemens Dimension	46	126.3	3.7	2.9	126	94 - 158	47	178.3	3.9	2.2	178	133 - 223
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	128.8	6.3	4.9	128	96 - 161	16	186.1	8.6	4.6	185	139 - 233
All Chemistry Instruments	17	129.4	6.6	5.1	128	97 - 162	17	185.8	8.5	4.6	184	139 - 233
VITROS												
VITROS 250,350,500,700,750,950	23	144.2	7.3	5.1	146	108 - 181	23	205.3	10.5	5.1	208	154 - 257
All Chemistry Instruments	28	142.1	8.2	5.7	144	106 - 178	28	202.5	11.6	5.7	204	151 - 254

Triglycerides (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	251	263.6	16.0	6.1	261	197 - 330
All Alfa Wassermann Reagents	43	251.5	7.7	3.0	251	188 - 315
All Horiba Pentra Reagents	17	260.5	6.7	2.6	263	195 - 326
All Roche Integra/c111/c301/c501 Reagents	31	255.0	9.4	3.7	254	191 - 319
All Vital Diagnostics Reagents	17	264.2	10.8	4.1	265	198 - 331
Alere Cholestech LDX						
Cholestech LDX - waived	11	283.1	7.3	2.6	286	212 - 354
All Chemistry Instruments	12	281.7	8.5	3.0	283	211 - 353
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	43	251.5	7.7	3.0	251	188 - 315
Beckman AU						
Beckman AU systems	24	265.4	7.5	2.8	266	199 - 332
Horiba ABX Pentra						
Horiba ABX Pentra 400	15	261.1	6.9	2.6	265	195 - 327
All Chemistry Instruments	16	260.9	6.7	2.6	264	195 - 327
Roche Integra						
Roche Integra	23	252.2	8.3	3.3	253	189 - 316
All Chemistry Instruments	24	252.3	8.2	3.2	253	189 - 316
Siemens Healthcare						
Siemens Dimension	47	261.1	5.0	1.9	261	195 - 327
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	264.2	11.1	4.2	267	198 - 331
All Chemistry Instruments	17	264.2	10.8	4.1	265	198 - 331
VITROS						
VITROS 250,350,500,700,750,950	23	306.7	11.2	3.6	310	230 - 384
All Chemistry Instruments	28	304.6	11.8	3.9	306	228 - 381

Acetaminophen (µg/mL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	18.43	3.12	16.9	19.2	9.0 - 27.8	5	15.37	0.40	2.6	15.3	13.8 - 17.0
	Specimen CH-3						**Specimen CH-4**					
All Method	5	13.23	1.54	11.6	12.5	8.6 - 17.9	5	65.17	8.12	12.5	69.5	40.8 - 89.6
	Specimen CH-5											
All Method	5	115.93	11.49	9.9	120.9	81.4 - 150.4						

Carbamazepine (µg/mL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	3.26	0.23	7.1	3.3	2.4 - 4.1	5	9.30	0.64	6.8	9.5	6.9 - 11.7
	Specimen CH-3						**Specimen CH-4**					
All Method	5	15.72	0.58	3.7	16.0	11.7 - 19.7	5	5.46	0.56	10.3	5.6	4.0 - 6.9
	Specimen CH-5											
All Method	5	8.10	0.31	3.8	8.1	6.0 - 10.2						

Digoxin (ng/mL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	21	0.28	0.19	68.6	0.2	0.0 - 0.5	20	0.65	0.11	17.6	0.7	0.4 - 0.9
	Specimen CH-3						**Specimen CH-4**					
All Method	21	1.36	0.18	13.2	1.4	1.0 - 1.7	21	1.55	0.20	12.7	1.6	1.2 - 1.9
	Specimen CH-5											
All Method	21	3.10	0.41	13.3	3.2	2.4 - 3.8						

Gentamicin (µg/mL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	5	11.45	0.07	0.6	11.5	8.5 - 14.4	5	6.25	0.07	1.1	6.3	4.6 - 7.9

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	5	1.45	0.07	4.9	1.5	1.0 - 1.9	5	6.85	0.35	5.2	6.9	5.1 - 8.6

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	5	3.10	0.14	4.6	3.1	2.3 - 3.9

Lithium (mmol/L)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	5	2.77	0.06	2.1	2.8	2.2 - 3.4	5	1.90	0.00	0.0	1.9	1.5 - 2.3

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	5	0.93	0.06	6.2	0.9	0.6 - 1.3	5	1.67	0.06	3.5	1.7	1.3 - 2.1

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	5	0.60	0.00	0.0	0.6	0.3 - 0.9

Phenobarbital (µg/mL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	5	8.25	1.48	17.9	8.25	6.6 - 9.9	5	19.10	0.28	1.5	19.10	15.2 - 23.0

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	5	29.30	2.26	7.7	29.30	23.4 - 35.2	5	29.30	1.13	3.9	29.30	23.4 - 35.2

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	5	49.45	3.75	7.6	49.45	39.5 - 59.4

Phenytoin (µg/mL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	7.05	0.83	11.8	7.1	5.2 - 8.9	11	19.49	0.91	4.7	19.4	14.6 - 24.4
	Specimen CH-3						**Specimen CH-4**					
All Method	11	31.51	1.53	4.8	31.6	23.6 - 39.4	11	11.08	0.48	4.3	11.1	8.3 - 13.9
	Specimen CH-5											
All Method	11	15.24	1.04	6.8	15.6	11.4 - 19.1						

Salicylate (mg/dL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	8.45	1.63	19.2	8.45	3.5 - 13.4	5	10.75	1.77	16.5	10.75	5.4 - 16.1
	Specimen CH-3						**Specimen CH-4**					
All Method	5	13.40	1.27	9.5	13.40	9.5 - 17.3	5	22.80	3.39	14.9	22.80	12.6 - 33.0
	Specimen CH-5											
All Method	5	36.85	1.77	4.8	36.85	31.5 - 42.2						

Theophylline (µg/mL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	14.70	1.27	8.7	14.7	11.0 - 18.4	5	26.45	3.32	12.6	26.5	19.8 - 33.1
	Specimen CH-3						**Specimen CH-4**					
All Method	5	40.20	0.28	0.7	40.2	30.1 - 50.3	5	12.45	0.78	6.2	12.5	9.3 - 15.6
	Specimen CH-5											
All Method	5	10.65	1.48	13.9	10.7	7.9 - 13.4						

Valproic Acid (µg/mL)

	Specimen CH-1					Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	6	89.85	5.57	6.2	89.5	67.3 - 112.4	6	67.83	2.08	3.1	68.3	50.8 - 84.8
	Specimen CH-3						**Specimen CH-4**					
All Method	6	45.63	1.85	4.1	44.8	34.2 - 57.1	6	110.02	7.56	6.9	107.6	82.5 - 137.6
	Specimen CH-5											
All Method	6	132.58	7.05	5.3	130.8	99.4 - 165.8						

Vancomycin (µg/mL)

	Specimen CH-1					Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	3.65	0.99	27.3	3.4	0.6 - 6.7	5	15.95	0.44	2.8	15.9	14.3 - 17.6
	Specimen CH-3						**Specimen CH-4**					
All Method	5	27.45	1.92	7.0	27.1	21.7 - 33.2	5	24.43	1.65	6.8	24.1	19.4 - 29.4
	Specimen CH-5											
All Method	5	45.73	1.88	4.1	46.1	40.0 - 51.4						

Apolipoprotein A1 (mg/dL)

	Specimen LP-1					Specimen LP-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	111.0	14.9	13.4	115	77 - 145	5	146.4	24.5	16.7	154	102 - 191

Apolipoprotein B (mg/dL)

	Specimen LP-1					Specimen LP-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	6	58.3	8.8	15.1	56	43 - 73	6	80.7	14.2	17.6	78	60 - 101

Neonatal Bilirubin, Total (mg/dL)

Method	Specimen NB-1 Labs	Mean	SD	CV	Median	Range	Specimen NB-2 Labs	Mean	SD	CV	Median	Range
All Method	21	19.03	1.19	6.2	19.3	15.2 - 22.9	23	13.65	1.08	7.9	13.7	10.9 - 16.4
No Reagent Required												
Bilirubinometer / Unistat	10	19.88	0.74	3.7	20.1	15.9 - 23.9	10	14.11	0.46	3.2	14.3	11.2 - 17.0
All Chemistry Instruments	14	19.35	1.08	5.6	19.5	15.4 - 23.3	14	13.81	0.65	4.7	13.9	11.0 - 16.6

Method	Specimen NB-3 Labs	Mean	SD	CV	Median	Range	Specimen NB-4 Labs	Mean	SD	CV	Median	Range
All Method	23	2.54	0.20	7.9	2.5	2.0 - 3.1	22	20.83	1.43	6.9	20.7	16.6 - 25.0
No Reagent Required												
Bilirubinometer / Unistat	10	2.37	0.08	3.5	2.4	1.8 - 2.9	10	21.87	0.84	3.8	22.0	17.4 - 26.3
All Chemistry Instruments	14	2.49	0.21	8.3	2.4	1.9 - 3.0	14	21.22	1.32	6.2	21.7	16.9 - 25.5

Method	Specimen NB-5 Labs	Mean	SD	CV	Median	Range
All Method	22	7.31	0.42	5.8	7.3	5.8 - 8.8
No Reagent Required						
Bilirubinometer / Unistat	10	7.46	0.16	2.1	7.5	5.9 - 9.0
All Chemistry Instruments	14	7.39	0.19	2.5	7.4	5.9 - 8.9

Bilirubin, Direct (mg/dL)

Method	Specimen NB-1 Labs	Mean	SD	CV	Median	Range	Specimen NB-2 Labs	Mean	SD	CV	Median	Range
All Method	10	8.56	2.07	24.2	8.9	4.4 - 12.7	10	6.40	0.70	10.9	6.3	5.0 - 7.8

Method	Specimen NB-3 Labs	Mean	SD	CV	Median	Range	Specimen NB-4 Labs	Mean	SD	CV	Median	Range
All Method	10	0.47	0.22	46.0	0.5	0.0 - 1.0	10	10.05	1.34	13.3	9.9	7.3 - 12.8

Method	Specimen NB-5 Labs	Mean	SD	CV	Median	Range
All Method	10	3.86	2.01	52.1	3.3	0.0 - 7.9

Blood Gases – pH

	Specimen BG-1						Specimen BG-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	7.166	0.026	0.4	7.17	7.12 - 7.21	12	7.487	0.060	0.8	7.52	7.44 - 7.53
i-STAT	10	7.173	0.019	0.3	7.18	7.13 - 7.22	10	7.495	0.062	0.8	7.52	7.45 - 7.54
	Specimen BG-3						**Specimen BG-4**					
All Method	12	7.576	0.059	0.8	7.61	7.53 - 7.62	12	7.573	0.020	0.3	7.58	7.53 - 7.62
i-STAT	10	7.583	0.061	0.8	7.61	7.54 - 7.63	10	7.580	0.006	0.1	7.58	7.54 - 7.62
	Specimen BG-5											
All Method	12	7.141	0.020	0.3	7.14	7.10 - 7.19						
i-STAT	10	7.148	0.010	0.1	7.15	7.10 - 7.19						

Blood Gases - pCO_2 (mmHg)

	Specimen BG-1						Specimen BG-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	62.83	4.89	7.8	62.6	57.8 - 67.9	12	26.36	1.69	6.4	25.9	21.3 - 31.4
i-STAT	10	61.13	2.13	3.5	62.3	56.1 - 66.2	10	25.75	0.58	2.2	25.7	20.7 - 30.8
	Specimen BG-3						**Specimen BG-4**					
All Method	12	24.73	1.46	5.9	24.3	19.7 - 29.8	12	17.23	0.93	5.4	17.1	12.2 - 22.3
i-STAT	10	24.18	0.28	1.2	24.3	19.1 - 29.2	10	16.93	0.55	3.2	17.0	11.9 - 22.0
	Specimen BG-5											
All Method	12	68.06	4.00	5.9	66.5	62.6 - 73.6						
i-STAT	10	66.57	0.76	1.1	66.5	61.2 - 71.9						

Blood Gases - pO_2 (mmHg)

	Specimen BG-1						Specimen BG-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	89.57	8.92	10.0	90.0	62.8 - 116.4	12	137.86	18.27	13.3	139.0	83.0 - 192.7
i-STAT	10	91.83	7.25	7.9	92.5	70.0 - 113.6	10	134.50	17.49	13.0	138.5	82.0 - 187.0
	Specimen BG-3						**Specimen BG-4**					
All Method	12	110.57	6.02	5.4	112.0	92.5 - 128.7	12	159.00	9.52	6.0	158.0	130.4 - 187.6
i-STAT	10	110.17	6.49	5.9	110.5	90.6 - 129.7	10	156.00	5.76	3.7	156.0	138.7 - 173.3
	Specimen BG-5											
All Method	12	97.29	7.70	7.9	100.0	74.1 - 120.4						
i-STAT	10	98.83	7.14	7.2	100.5	77.4 - 120.3						

Blood Gases – Ionized Calcium (mmol/L)

	Specimen BG-1						Specimen BG-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	2.005	0.160	7.9	2.01	1.52 - 2.49	5	1.585	0.120	7.6	1.59	1.22 - 1.95
	Specimen BG-3						**Specimen BG-4**					
All Method	5	1.045	0.110	10.5	1.05	0.71 - 1.38	5	0.855	0.040	4.7	0.86	0.73 - 0.98
	Specimen BG-5											
All Method	5	1.790	0.040	2.2	1.79	1.67 - 1.91						

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: 76 mmol/L, 83 mmol/L, 106 mmol/L, 104 mmol/L, and 87 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-1 through BG-5 are: 2.7 mmol/L, 4.2 mmol/L, 6.9 mmol/L, 6.2 mmol/L, and 3.9 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-1 through BG-5 are: 126 mmol/L, 148 mmol/L, 169 mmol/L, 150 mmol/L, and 141 mmol/L, respectively.

Blood Gases – Lactic Acid (mmol/L)

	Specimen BG-1						Specimen BG-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	4.70	0.01	0.2	4.7	4.3 - 5.1	5	1.48	0.03	2.0	1.5	1.0 - 1.9
	Specimen BG-3						**Specimen BG-4**					
All Method	5	0.91	0.01	1.1	1.5	0.5 - 1.4	5	1.11	0.01	0.9	1.1	0.7 - 1.6
	Specimen BG-5											
All Method	5	3.74	0.08	2.1	3.7	3.3 - 4.2						

Glycohemoglobin (percent)

	Specimen GH-1						Specimen GH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	228	12.97	0.76	5.9	13.0	11.6 - 14.3	227	5.81	0.25	4.3	5.8	5.2 - 6.4
All Hemoglobin A1c Methods	228	12.97	0.76	5.9	13.0	11.6 - 14.3	227	5.81	0.25	4.3	5.8	5.2 - 6.4
All TOSOH Methods	18	12.12	0.75	6.2	12.0	10.9 - 13.4	18	5.34	0.14	2.6	5.3	4.8 - 5.9
Beckman AU A1c	10	12.86	0.84	6.5	12.6	11.5 - 14.2	10	5.61	0.28	5.1	5.6	5.0 - 6.2
Siemens DCA 2000/+	13	13.63	0.34	2.5	13.6	12.2 - 15.0	12	5.95	0.13	2.2	6.0	5.3 - 6.6
Siemens DCA Vantage	98	13.32	0.57	4.3	13.4	11.9 - 14.7	96	5.90	0.15	2.5	5.9	5.3 - 6.5
Siemens Dimension HB1C	40	12.67	0.35	2.7	12.7	11.4 - 14.0	39	5.80	0.15	2.6	5.8	5.2 - 6.4
TOSOH G8	13	11.97	0.75	6.2	11.7	10.7 - 13.2	13	5.30	0.09	1.7	5.3	4.7 - 5.9

Afinion Glycohemoglobin (percent)

	Specimen AFN-1						Specimen AFN-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
Axis-Shield Afinion AS100	52	8.11	0.14	1.7	8.1	7.3 - 9.0	52	6.23	0.14	2.3	6.2	5.6 - 6.9

C-Peptide (ng/mL)

	Specimen CIP-1						Specimen CIP-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	5.683	1.572	27.7	6.00	2.53 - 8.83	7	3.884	0.987	25.4	4.20	1.91 - 5.86

Insulin (μU/mL)

	Specimen CIP-1						Specimen CIP-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	14	74.23	23.75	32.0	80.2	26.7 - 121.8	14	55.48	17.21	31.0	59.8	21.0 - 90.0

Parathyroid hormone (pg/mL)

	Specimen CIP-1						Specimen CIP-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	39	17.6	3.4	19.3	17	10 - 25	37	15.6	1.9	12.1	15	11 - 20
All TOSOH Instruments	10	19.1	2.8	14.7	18	13 - 25	10	15.7	1.4	9.0	16	12 - 19
Beckman ACCESS / 2 / DxI	12	16.7	1.1	6.4	17	14 - 19	12	15.5	1.1	7.0	15	13 - 18

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

	Specimen CIP-1						Specimen CIP-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	79	38.55	11.91	30.9	36.5	14.7 - 62.4	78	31.32	10.68	34.1	29.2	9.9 - 52.7
All Roche Instruments	13	22.28	2.04	9.2	23.0	18.1 - 26.4	13	17.40	2.00	11.5	17.0	13.4 - 21.4
All TOSOH Instruments	18	45.21	4.03	8.9	45.7	37.1 - 53.3	18	39.62	3.17	8.0	39.9	33.2 - 46.0
Abbott Architect	16	32.23	1.82	5.7	31.9	28.5 - 35.9	16	26.50	1.73	6.5	26.8	23.0 - 30.0
TOSOH ST AIA	10	46.17	3.40	7.4	46.6	39.3 - 53.0	10	39.48	3.60	9.1	40.0	32.2 - 46.7

BNP (pg/mL)

Method	Labs	Mean	SD	CV	Median	Range
Specimen CK-1						
All Method	12	377.48	117.81	31.2	345.0	141.8 - 613.2
Alere Triage	51	349.90	49.24	14.1	342.0	251.4 - 448.4
Specimen CK-2						
All Method	12	1127.37	553.39	49.1	1040.0	20.5 - 2234.2
Alere Triage	51	1044.37	117.93	11.3	1040.0	808.5 - 1280.3
Specimen CK-3						
All Method	9	56.88	19.90	35.0	51.0	17.0 - 96.7
Alere Triage	28	51.79	5.99	11.6	51.7	39.8 - 63.8
Specimen CK-4						
All Method	9	687.33	176.34	25.7	651.0	334.6 - 1040.1
Alere Triage	29	652.41	82.96	12.7	652.0	486.5 - 818.4
Specimen CK-5						
All Method	9	1729.89	390.92	22.6	1710.0	948.0 - 2511.8
Alere Triage	29	1805.86	290.98	16.1	1740.0	1223.9 - 2387.9

CK-MB (ng/mL)

Method	Labs	Mean	SD	CV	Median	Range
Specimen CK-1						
All Method	20	13.43	4.09	30.5	8.5	1.1 - 25.8
Alere Triage	28	8.08	1.52	18.9	7.9	3.5 - 12.7
Specimen CK-2						
All Method	21	40.77	13.92	34.2	25.5	0.0 - 82.6
Alere Triage	28	24.89	4.54	18.3	23.9	11.2 - 38.6
Specimen CK-3						
All Method	21	4.89	1.73	35.3	3.4	0.0 - 10.1
Alere Triage	28	2.80	0.76	27.0	2.9	0.5 - 5.1
Specimen CK-4						
All Method	20	23.47	6.31	26.9	16.1	4.5 - 42.5
Alere Triage	27	14.30	2.66	18.6	13.8	6.3 - 22.3
Specimen CK-5						
All Method	21	77.64	30.97	39.9	47.5	0.0 - 170.6
Alere Triage	28	43.51	6.78	15.6	43.1	23.1 - 63.9

D-Dimer (ng/mL)

	Specimen CK-1						Specimen CK-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	1032.3	503.2	48.7	861	25 - 2039	11	1772.5	762.3	43.0	1445	247 - 3297
Alere Triage	25	863.4	70.7	8.2	865	604 - 1123	24	1403.3	118.9	8.5	1425	982 - 1825

	Specimen CK-3						Specimen CK-4					
All Method	9	787.6	313.4	39.8	685	160 - 1415	9	1274.8	408.7	32.1	1070	457 - 2093
Alere Triage	24	676.7	63.5	9.4	689	473 - 880	24	1066.9	84.9	8.0	1060	746 - 1387

	Specimen CK-5					
All Method	9	2374.0	919.3	38.7	2080	535 - 4213
Alere Triage	24	2092.5	190.9	9.1	2095	1464 - 2721

D-Dimer (µgFEU/mL)

	Specimen CK-1						Specimen CK-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	0.500	0.350 - 0.650	1	-	-	-	1.000	0.700 - 1.300

Myoglobin (ng/mL)

Method	Specimen CK-1 Labs	Mean	SD	CV	Median	Range	Specimen CK-2 Labs	Mean	SD	CV	Median	Range
All Method	11	86.23	18.37	21.3	92.1	60.3 - 112.1	12	215.98	50.74	23.5	236.0	151.1 - 280.8
Alere Triage	23	92.37	15.66	16.9	95.9	64.6 - 120.1	23	235.74	35.68	15.1	243.0	165.0 - 306.5

Method	Specimen CK-3 Labs	Mean	SD	CV	Median	Range	Specimen CK-4 Labs	Mean	SD	CV	Median	Range
All Method	12	32.80	8.87	27.0	32.9	22.9 - 42.7	12	142.27	29.42	20.7	143.0	99.5 - 185.0
Alere Triage	23	34.08	6.78	19.9	32.9	23.8 - 44.4	23	141.96	20.45	14.4	143.0	99.3 - 184.6

Method	Specimen CK-5 Labs	Mean	SD	CV	Median	Range
All Method	12	385.56	58.69	15.2	383.0	269.8 - 501.3
Alere Triage	23	383.09	69.73	18.2	383.0	268.1 - 498.1

NT-proBNP (pg/mL)

Method	Specimen CK-1 Labs	Mean	SD	CV	Median	Range	Specimen CK-2 Labs	Mean	SD	CV	Median	Range
Biosite Triage	7	620.6	609.1	98.1	363	0 - 1839	7	2609.1	2381.9	91.3	2076	0 - 7373

Method	Specimen CK-3 Labs	Mean	SD	CV	Median	Range	Specimen CK-4 Labs	Mean	SD	CV	Median	Range
Biosite Triage	2	-	-	-	34	Not graded	2	-	-	-	565	Not graded

Method	Specimen CK-5 Labs	Mean	SD	CV	Median	Range
Biosite Triage	2	-	-	-	2252	Not graded

Troponin I (ng/mL)

Method	Specimen CK-1 Labs	Mean	SD	CV	Median	Range	Specimen CK-2 Labs	Mean	SD	CV	Median	Range
All Method	20	0.910	0.625	68.7	0.62	0.00 - 2.16	55	4.196	1.106	26.4	4.22	1.98 - 6.41
Alere Triage	36	0.558	0.140	25.1	0.56	0.27 - 0.84	35	4.335	0.820	18.9	4.41	2.69 - 5.98

Method	Specimen CK-3 Labs	Mean	SD	CV	Median	Range	Specimen CK-4 Labs	Mean	SD	CV	Median	Range
All Method	55	0.049	0.008	16.2	0.05	0.03 - 0.07	55	1.699	0.445	26.2	1.71	0.80 - 2.59
Alere Triage	36	0.050	0.000	0.0	0.05	0.03 - 0.07	36	1.613	0.374	23.2	1.56	0.86 - 2.37

Method	Specimen CK-5 Labs	Mean	SD	CV	Median	Range
All Method	55	9.925	2.185	22.0	10.10	5.55 - 14.30
Alere Triage	36	10.588	1.654	15.6	10.45	7.27 - 13.90

PSA (ng/mL)

Method	Specimen PS-1 Labs	Mean	SD	CV	Median	Range	Specimen PS-2 Labs	Mean	SD	CV	Median	Range
All Method	178	0.192	0.046	23.7	0.20	0.00 - 1.10	173	26.478	3.739	14.1	26.01	18.53 - 34.43
All Roche Elecsys/Cobas Instruments	10	0.234	0.022	9.3	0.23	0.00 - 1.14	11	26.380	8.836	33.5	28.47	18.46 - 34.30
All TOSOH Instruments	41	0.195	0.015	7.6	0.20	0.00 - 1.10	40	22.067	0.999	4.5	21.97	15.44 - 28.69
Abbott Architect	16	0.155	0.028	18.1	0.15	0.00 - 1.06	16	25.222	2.447	9.7	24.90	17.65 - 32.79
Beckman ACCESS / 2 / DxI	14	0.217	0.015	6.9	0.22	0.00 - 1.12	14	30.349	2.013	6.6	30.43	21.24 - 39.46
Beckman ACCESS Hybritech PSA	25	0.217	0.018	8.5	0.22	0.00 - 1.12	25	30.543	2.113	6.9	30.30	21.38 - 39.71
bioMerieux Vidas, Mini Vidas	27	0.213	0.021	9.8	0.21	0.00 - 1.12	28	27.974	1.513	5.4	28.03	19.58 - 36.37
Siemens Dimension TPSA	27	0.156	0.035	22.6	0.15	0.00 - 1.06	25	25.084	1.238	4.9	25.08	17.55 - 32.61
TOSOH AIA	16	0.190	0.015	7.7	0.19	0.00 - 1.09	16	21.943	0.964	4.4	21.89	15.35 - 28.53
TOSOH ST AIA	25	0.199	0.014	7.2	0.20	0.00 - 1.10	25	22.299	1.260	5.7	22.20	15.60 - 28.99

Beta-2 microglobulin

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	8	3.805	0.167	4.4	3.77	3.30 - 4.31	8	1.079	0.067	6.2	1.08	0.87 - 1.28
TOSOH ST AIA	6	3.823	0.191	5.0	3.82	3.25 - 4.40	6	1.073	0.078	7.3	1.06	0.83 - 1.31

CA 125 (U/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	13	140.5	22.5	16.0	195	98 - 183	13	47.3	7.4	15.7	63	33 - 62
All TOSOH Instruments	12	233.3	8.3	3.6	236	163 - 304	12	74.8	3.6	4.9	75	52 - 98
TOSOH ST AIA	11	233.4	8.7	3.7	236	163 - 304	11	75.0	3.8	5.0	75	52 - 98

CA 15-3 (U/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	10	178.7	55.2	30.9	198	13 - 345	10	67.5	20.9	30.9	72	4 - 131

CA 19-9 (U/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	8	66.8	37.7	56.5	53	0 - 180	8	25.0	14.9	59.4	20	0 - 70

CA 27/29 (U/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	17	144.4	13.1	9.1	145	105 - 184	15	84.3	6.1	7.3	85	65 - 103
All TOSOH Instruments	16	144.1	13.4	9.3	145	103 - 185	15	84.3	6.1	7.3	85	65 - 103
TOSOH ST AIA	13	147.1	9.9	6.7	145	117 - 177	14	85.0	5.6	6.6	85	68 - 102

CEA (ng/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	37.04	5.37	14.5	46.4	25.9 - 48.2	11	10.47	1.38	13.2	13.5	7.3 - 13.7
All TOSOH Instruments	15	47.75	1.64	3.4	47.5	33.4 - 62.1	15	14.02	0.55	3.9	14.1	9.8 - 18.3
TOSOH ST AIA	14	47.78	1.70	3.6	47.5	33.4 - 62.2	14	14.03	0.56	4.0	14.2	9.8 - 18.3

Free PSA (ng/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	16	18.849	4.636	24.6	19.40	13.19 - 24.51	16	5.273	1.494	28.3	5.35	3.69 - 6.86

PSA (ng/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	48	19.468	3.300	17.0	19.41	13.62 - 25.31	47	5.116	0.774	15.1	4.98	3.58 - 6.66
All TOSOH Instruments	14	17.290	0.806	4.7	17.22	12.10 - 22.48	14	4.701	0.165	3.5	4.69	3.29 - 6.12
TOSOH ST AIA	13	17.363	0.789	4.5	17.23	12.15 - 22.58	13	4.718	0.158	3.4	4.70	3.30 - 6.14

Thyroglobulin (ng/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	57.13	10.28	18.0	58.3	36.5 - 77.7	7	13.16	3.94	29.9	13.0	5.2 - 21.1

CEA (ng/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	10	0.42	0.08	18.1	0.5	0.0 - 1.7	10	31.67	4.08	12.9	36.6	22.1 - 41.2
All TOSOH Instruments	8	0.80	0.24	29.9	0.8	0.0 - 2.0	8	38.19	1.27	3.3	38.5	26.7 - 49.7
TOSOH ST AIA	6	0.77	0.24	31.6	0.8	0.0 - 2.0	6	38.23	1.40	3.7	38.5	26.7 - 49.8

DHEA-S (µg/dL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	81.44	9.49	11.7	76.0	69.2 - 93.7	8	524.90	43.57	8.3	538.0	446.1 - 603.7

Estradiol (pg/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	40	34.8	11.9	34.4	35	10 - 59	40	525.8	171.0	32.5	440	183 - 868
All TOSOH Instruments	12	47.1	10.6	22.4	44	25 - 69	12	769.5	39.3	5.1	784	690 - 849

Ferritin (ng/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	56	8.1	1.1	13.5	7	5 - 11	57	350.3	50.7	14.5	285	245 - 456
All Abbott Instruments	11	8.5	0.7	8.0	8	5 - 12	11	421.5	16.6	3.9	425	295 - 548
All TOSOH Instruments	27	5.7	0.4	7.8	6	4 - 8	28	264.9	11.5	4.4	263	185 - 345
Abbott Architect	11	8.5	0.7	8.0	8	5 - 12	11	421.5	16.6	3.9	425	295 - 548
Beckman ACCESS / 2 / DxI	33	6.2	0.9	14.1	6	4 - 8	33	273.0	31.2	11.4	267	191 - 355
Siemens Dimension	13	7.8	0.6	7.1	8	5 - 11	13	338.2	9.5	2.8	339	236 - 440
TOSOH AIA	11	5.6	0.5	9.0	6	3 - 8	11	267.0	10.6	4.0	265	186 - 348
TOSOH ST AIA	16	5.8	0.4	6.9	6	4 - 8	17	263.6	12.2	4.6	262	184 - 343

Folate (ng/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	26	1.00	0.51	50.9	0.8	0.1 - 2.0	25	10.61	2.07	19.5	10.3	7.4 - 13.8
All TOSOH Instruments	16	1.22	0.49	40.2	1.1	0.3 - 2.2	16	7.21	1.37	19.0	7.5	5.0 - 9.4
Beckman ACCESS / 2 / DxI	34	0.50	0.46	92.0	0.4	0.0 - 1.4	33	11.00	0.92	8.4	11.2	7.7 - 14.4
TOSOH AIA	14	1.13	0.38	33.4	1.0	0.2 - 2.1	14	7.16	1.46	20.4	7.3	5.0 - 9.4

FSH (mIU/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	48	7.08	1.02	14.4	7.0	5.3 - 8.9	49	59.11	5.56	9.4	57.4	44.3 - 73.9
All TOSOH Instruments	12	8.45	0.55	6.5	8.4	6.3 - 10.6	12	60.16	2.99	5.0	61.1	45.1 - 75.2
Beckman ACCESS / 2 / DxI	13	7.13	0.44	6.2	7.0	5.3 - 9.0	13	56.35	3.92	7.0	56.2	42.2 - 70.5

Homocysteine (μmol/L)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	13	7.0	2.2	30.9	7	5 - 9	13	37.8	6.0	15.8	40	30 - 46

LH (mIU/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	44	3.18	0.59	18.6	3.2	2.0 - 4.4	44	43.94	11.28	25.7	40.2	21.3 - 66.5
Beckman ACCESS / 2 / DxI	12	3.10	0.24	7.9	3.2	2.6 - 3.6	12	39.14	1.94	5.0	39.3	35.2 - 43.1

Progesterone (ng/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	29	3.20	0.71	22.3	3.2	2.2 - 4.2	27	44.86	9.41	21.0	40.0	31.4 - 58.4
All TOSOH Instruments	11	3.79	0.50	13.3	3.7	2.6 - 5.0	10	43.87	5.83	13.3	41.7	30.7 - 57.1

Prolactin (ng/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	30	2.76	0.32	11.6	2.8	0.0 - 6.4	32	16.43	2.31	14.1	16.4	11.5 - 21.4

Testosterone (ng/dL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	85	125.9	30.5	24.2	118	88 - 164	87	1192.8	230.3	19.3	1165	834 - 1551
All Immulite Instruments	10	202.0	43.5	21.5	196	141 - 263	10	1384.8	233.1	16.8	1448	969 - 1801
All TOSOH Instruments	20	142.4	21.9	15.4	138	99 - 186	20	1404.6	118.4	8.4	1420	983 - 1826
Abbott Architect	10	104.9	28.2	26.9	116	73 - 137	10	1206.2	257.1	21.3	1009	844 - 1569
Beckman ACCESS / 2 / DxI	31	104.9	6.1	5.8	106	73 - 137	30	1025.0	62.4	6.1	1034	717 - 1333
TOSOH ST AIA	11	134.5	13.7	10.2	133	94 - 175	11	1401.5	117.3	8.4	1419	981 - 1823

Transferrin (mg/dL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	13	69.6	3.7	5.4	69	64 - 75	15	275.3	14.2	5.2	281	255 - 295

Vitamin B_{12} (pg/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	94	343.0	52.3	15.2	342	240 - 446	93	1177.6	151.9	12.9	1190	824 - 1531
All Roche Elecsys/Cobas Instruments	10	313.9	37.2	11.8	298	219 - 409	10	1335.9	110.3	8.3	1307	935 - 1737
All TOSOH Instruments	21	412.5	34.5	8.4	413	288 - 537	21	1137.5	123.9	10.9	1153	796 - 1479
Abbott Architect	12	367.4	15.1	4.1	368	257 - 478	12	1345.7	137.3	10.2	1303	941 - 1750
Beckman ACCESS / 2 / DxI	38	315.2	25.5	8.1	315	220 - 410	38	1132.1	142.7	12.6	1135	792 - 1472
TOSOH AIA	18	415.6	35.4	8.5	415	290 - 541	18	1144.8	132.1	11.5	1155	801 - 1489

Serum Alcohol (mg/dL)

	Specimen ETH-1						Specimen ETH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	10	209.4	9.9	4.7	210	157 - 262	10	108.3	5.7	5.2	110	81 - 136
Roche Integra	5	209.4	4.7	2.3	210	157 - 262	5	108.6	3.1	2.9	110	81 - 136
	Specimen ETH-3						**Specimen ETH-4**					
All Method	10	341.1	21.3	6.3	340	255 - 427	10	29.2	1.8	6.1	29	21 - 37
Roche Integra	5	340.8	6.5	1.9	340	255 - 426	5	28.8	1.5	5.2	29	21 - 36
	Specimen ETH-5											
All Method	10	129.1	6.8	5.3	129	96 - 162						
Roche Integra	5	128.0	5.0	3.9	128	96 - 160						

Acetone

	Specimen ETH-1					Specimen ETH-2				
Method	***Labs***	***Negative***	***Small***	***Moderate***	***Large***	***Labs***	***Negative***	***Small***	***Moderate***	***Large***
Siemens Acetest	8	-	1	7	-	8	8	-	-	-
	Specimen ETH-3					**Specimen ETH-4**				
Siemens Acetest	8	8	-	-	-	8	8	-	-	-
	Specimen ETH-5									
Siemens Acetest	8	-	8	-	-					

Anti-Thyroglobulin Antibody (IU/mL)

	Specimen THY-1						Specimen THY-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	16	2183.8	852.5	39.0	2487	478 - 3889	18	7.2	9.0	125.0	1	0 - 26

Anti-Microsomal Antibody (IU/mL)

	Specimen THY-1						Specimen THY-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	20	973.0	362.5	37.3	1000	247 - 1698	19	5.7	8.9	157.2	1	0 - 24

Ammonia (µmol/L)

	Specimen AMM-1						Specimen AMM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	61.8	3.4	5.5	63	54 - 69	5	137.5	7.3	5.3	137	122 - 153

Urine Drug Screen

Acetaminophen (µg/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
ALL METHODS	1	1	-	1	-	1

Amphetamines (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	87	1	86	86	1	85
Cut-off 250						
Medica EasyRA	1	-	1	1	-	1
All Cut-off 250	1	-	1	1	-	1
Cut-off 300						
Instant Technologies i Screen	5	-	5	5	-	5
All Cut-off 300	5	-	5	5	-	5
Cut-off 500						
Beckman AU	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
Roche Integra	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 500	10	-	10	10	-	10
Cut-off 1000						
Alere Triage	1	-	1	1	-	1
AMBC Rapid Drug/Tox	1	-	1	1	-	1
Amedica Biotech	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
Bio-Rad TOX/See	3	-	3	3	-	3
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Instant Technologies i Cassette	5	-	5	5	-	5
Instant Technologies iCup	6	-	6	6	-	6
Integrated E-Z Split Key Cup / II	2	-	2	2	-	2
Lin-Zhi International	10	-	10	10	-	10
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
Reveal Multi-Drug Testing Cup	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
All Cut-off 1000	47	-	47	47	-	47

Amphetamines/Methamphetamines (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	21	-	21	21	-	21
Cut-off 300						
Innovacon Multi-Drug One Step	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Beckman AU	1	-	1	1	-	1
Instant Technologies i Cassette	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 500	3	-	3	3	-	3
Cut-off 1000						
AMBC Rapid Drug/Tox	1	-	1	1	-	1
Amedica Biotech	1	-	1	1	-	1
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Cassette	1	-	1	1	-	1
Instant Technologies iCup	2	-	2	2	-	2
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Microgenics DRI	6	-	6	6	-	6
All Cut-off 1000	15	-	15	15	-	15

Barbiturates (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	80	1	79	80	79	1
Cut-off 200						
Beckman AU	3	-	3	3	3	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Dade Behring EMIT II Plus	2	-	2	2	2	-
ImmTox	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
Lin-Zhi International	7	-	7	7	7	-
Medica EasyRA	1	-	1	1	1	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	4	-	4	4	4	-
Roche Integra	3	-	3	3	3	-
Siemens Dimension	1	-	1	1	1	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 200	30	-	30	30	30	-
Cut-off 300						
Alere Triage	1	-	1	1	1	-
Amedica Biotech	2	-	2	2	2	-
Bio-Rad TOX/See	3	-	3	3	3	-
BMC QuickTox Drug Screen	1	-	1	1	1	-
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	1	-
Dade Behring EMIT II Plus	1	-	1	1	1	-
Innovacon Multi-Drug One Step	1	-	1	1	1	-
Instant Technologies i Cassette	5	-	5	5	5	-
Instant Technologies i Screen	5	-	5	5	5	-
Instant Technologies iCup	6	-	6	6	6	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
Redwood Toxicology Reditest	1	-	1	1	1	-
Reveal Multi-Drug Testing Cup	1	-	1	1	1	-
All Cut-off 300	29	-	29	29	29	-

Benzodiazepines (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	94	1	93	94	91	3
Cut-off 100						
Beckman AU	1	-	1	1	1	-
ImmTox	1	-	1	1	1	-
Roche Integra	2	-	2	2	2	-
All Cut-off 100	4	-	4	4	4	-
Cut-off 150						
Medica EasyRA	1	-	1	1	1	-
MEDTOX Diagnostics	3	-	3	3	1	2
All Cut-off 150	4	-	4	4	2	2
Cut-off 200						
Beckman AU	2	-	2	2	2	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Dade Behring EMIT II Plus	2	-	2	2	2	-
Indiko Plus	1	-	1	1	1	-
Lin-Zhi International	10	-	10	10	10	-
Microgenics DRI	9	-	9	9	9	-
Mindray BS-200	1	-	1	1	1	-
Roche Integra	1	-	1	1	1	-
Siemens Dimension	2	-	2	2	2	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 200	30	-	30	30	30	-
Cut-off 300						
Alere Triage	1	-	1	1	1	-
Alfa Scientific Instant-View	1	-	1	1	1	-
Amedica Biotech	1	-	1	1	1	-
Bio-Rad TOX/See	3	-	3	3	3	-
BMC QuickTox Drug Screen	2	-	2	2	2	-
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	1	-
Dade Behring EMIT II Plus	1	-	1	1	1	-
Innovacon Multi-Drug One Step	1	-	1	1	1	-
Instant Technologies i Cassette	5	-	5	5	5	-
Instant Technologies i Screen	5	-	5	5	5	-
Instant Technologies iCup	6	-	6	6	6	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
MEDTOX Diagnostics	2	-	2	2	2	-
Redwood Toxicology Reditest	1	-	1	1	1	-
Reveal Multi-Drug Testing Cup	1	-	1	1	1	-
All Cut-off 300	32	-	32	32	32	-

Buprenorphine (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	31	2	29	31	2	29
Cut-off 5						
Beckman AU	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Immunolaysis	1	-	1	1	-	1
Lin-Zhi International	8	-	8	8	1	7
Medica EasyRA	1	-	1	1	-	1
Microgenics CEDIA	5	-	5	5	-	5
Synermed IR 500	1	-	1	1	-	1
All Cut-off 5	19	-	19	19	1	18
Cut-off 10						
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Instant Technologies iCup	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
MEDTOX Diagnostics	3	1	2	3	-	3
Mindray BS-200	1	-	1	1	-	1
All Cut-off 10	8	1	7	8	-	8

Cannabinoids (THC) (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	100	97	3	100	1	99
Cut-off 20						
Dade Behring EMIT II Plus	1	1	-	1	-	1
All Cut-off 20	1	1	-	1	-	1
Cut-off 25						
Instant Technologies i Screen	1	1	-	1	-	1
All Cut-off 25	1	1	-	1	-	1
Cut-off 50						
Alere Triage	1	1	-	1	-	1
Alfa Scientific Instant-View	1	1	-	1	-	1
Amedica Biotech	1	1	-	1	-	1
Beckman AU	3	3	-	3	-	3
Bio-Rad TOX/See	3	3	-	3	-	3
BMC QuickTox Drug Screen	2	2	-	2	-	2
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Clarity Diagnostics Urine Panels/Cassettes	1	1	-	1	-	1
Dade Behring EMIT II Plus	2	2	-	2	-	2
Germaine Laboratories AimScreen	2	2	-	2	-	2
ImmTox	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Innovacon Multi-Drug One Step	2	2	-	2	-	2
InstaCheck Drug Screen	1	1	-	1	-	1
Instant Technologies i Cassette	5	5	-	5	-	5
Instant Technologies i Screen	4	4	-	4	-	4
Instant Technologies iCup	6	6	-	6	-	6
Integrated E-Z Split Key Cup / II	3	3	-	3	-	3
Lin-Zhi International	9	8	1	9	-	9
Medica EasyRA	1	1	-	1	-	1
MEDTOX Diagnostics	5	5	-	5	-	5
Microgenics DRI	10	10	-	10	-	10
Noble Medical Inc.	1	1	-	1	-	1
Redwood Toxicology Reditest	1	1	-	1	-	1
Reveal Multi-Drug Testing Cup	1	1	-	1	-	1
Roche Integra	3	3	-	3	-	3
Siemens Dimension	1	1	-	1	-	1
All Cut-off 50	72	71	1	72	-	72

Cocaine Metabolites (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	102	1	101	102	1	101
Cut-off 100						
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
All Cut-off 100	3	-	3	3	-	3
Cut-off 150						
Dade Behring EMIT II Plus	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics DRI	1	-	1	1	-	1
Synermed IR 500	1	-	1	1	-	1
All Cut-off 150	7	-	7	7	-	7
Cut-off 300						
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
Amedica Biotech	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
Bio-Rad TOX/See	3	-	3	3	-	3
BMC QuickTox Drug Screen	2	-	2	2	-	2
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
Dade Behring EMIT II Plus	2	-	2	2	-	2
Germaine Laboratories AimScreen	2	-	2	2	-	2
Indiko Plus	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Cassette	5	-	5	5	-	5
Instant Technologies i Screen	5	-	5	5	-	5
Instant Technologies iCup	5	-	5	5	-	5
Integrated E-Z Split Key Cup / II	3	-	3	3	-	3
Lin-Zhi International	10	-	10	10	-	10
MEDTOX Diagnostics	2	-	2	2	-	2
Microgenics DRI	7	-	7	7	-	7
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
Reveal Multi-Drug Testing Cup	1	-	1	1	-	1
Roche Integra	3	-	3	3	-	3
Siemens Dimension	2	-	2	2	-	2
All Cut-off 300	65	-	65	65	-	65

Cotinine (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
ALL METHODS	1	-	1	1	-	1

EDDP (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	2	-	2	2	-	2
Cut-off 300						
Lin-Zhi International	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	2	-	2	2	-	2

Ethanol (Alcohol) (mg/dL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	22	20	2	22	-	22
Cut-off 20						
Dade Behring EMIT II Plus	1	1	-	1	-	1
All Cut-off 20	1	1	-	1	-	1
Cut-off 100						
Beckman AU	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Lin-Zhi International	9	9	-	9	-	9
Medica EasyRA	1	1	-	1	-	1
Microgenics DRI	3	3	-	3	-	3
Roche Integra	1	1	-	1	-	1
Synermed IR 500	1	-	1	1	-	1
All Cut-off 100	17	16	1	17	-	17

LSD (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
ALL METHODS	1	-	1	1	1	-

MDMA (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	37	-	37	37	-	37
Cut-off 500						
Amedica Biotech	2	-	2	2	-	2
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	3	-	3	3	-	3
BMC QuickTox Drug Screen	1	-	1	1	-	1
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
Dade Behring EMIT II Plus	2	-	2	2	-	2
Instant Technologies i Cassette	2	-	2	2	-	2
Instant Technologies iCup	5	-	5	5	-	5
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	4	-	4	4	-	4
Medica EasyRA	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
All Cut-off 500	25	-	25	25	-	25

Methadone (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	77	2	75	76	73	3
Cut-off 150						
Dade Behring EMIT II Plus	1	-	1	1	1	-
All Cut-off 150	1	-	1	1	1	-
Cut-off 200						
MEDTOX Diagnostics	3	-	3	3	3	-
All Cut-off 200	3	-	3	3	3	-
Cut-off 300						
Amedica Biotech	1	-	1	1	1	-
Beckman AU	3	-	3	3	3	-
Bio-Rad TOX/See	3	-	3	3	3	-
BMC QuickTox Drug Screen	2	-	2	2	2	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	1	-
Dade Behring EMIT II Plus	2	-	2	2	2	-
ImmTox	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
Innovacon Multi-Drug One Step	1	-	1	1	1	-
Instant Technologies i Cassette	3	-	3	3	3	-
Instant Technologies iCup	4	-	4	4	4	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
Lin-Zhi International	8	-	8	8	8	-
Medica EasyRA	1	-	1	1	1	-
Microgenics DRI	10	-	10	10	10	-
Mindray BS-200	1	-	1	1	1	-
Redwood Toxicology Reditest	1	-	1	1	1	-
Reveal Multi-Drug Testing Cup	1	-	1	1	1	-
Roche Integra	2	-	2	2	2	-
Siemens Dimension	2	-	2	2	2	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 300	51	-	51	51	51	-
Cut-off 1000						
Carolina Chemistries BioLis 50i Superior	1	1	-	-	-	-
Instant Technologies iCup	1	-	1	1	1	-
All Cut-off 1000	2	1	1	1	1	-

Methamphetamines (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	52	1	51	51	1	50
Cut-off 250						
Medica EasyRA	1	-	1	1	-	1
All Cut-off 250	1	-	1	1	-	1
Cut-off 500						
Beckman AU	1	-	1	1	-	1
BMC QuickTox Drug Screen	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
All Cut-off 500	7	-	7	7	-	7
Cut-off 1000						
Alfa Scientific Instant-View	1	-	1	1	-	1
AMBC Rapid Drug/Tox	1	-	1	1	-	1
Amedica Biotech	1	-	1	1	-	1
Bio-Rad TOX/See	3	-	3	3	-	3
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
Innovacon Multi-Drug One Step	2	-	2	2	-	2
Instant Technologies i Cassette	1	-	1	1	-	1
Instant Technologies i Screen	5	-	5	5	-	5
Instant Technologies iCup	5	-	5	5	-	5
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
Reveal Multi-Drug Testing Cup	1	-	1	1	-	1
All Cut-off 1000	23	-	23	23	-	23

Methaqualone (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	1	-	1	-	1
Cut-off 300						
Dade Behring EMIT II Plus	1	1	-	1	-	1
All Cut-off 300	1	1	-	1	-	1

6-MAM (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	5	-	5	5	-	5
Cut-off 10						
Beckman AU	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
Lin-Zhi International	2	-	2	2	-	2
Microgenics DRI	1	-	1	1	-	1
All Cut-off 10	5	-	5	5	-	5

Opiates (Morphine Trihydrate) (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	104	1	103	104	1	103
Cut-off 100						
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
All Cut-off 100	6	-	6	6	-	6
Cut-off 300						
Alere Triage	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
Bio-Rad TOX/See	3	-	3	3	-	3
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	2	-	2	2	-	2
Indiko Plus	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Instant Technologies iCup	2	-	2	2	-	2
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	10	-	10	10	-	10
MEDTOX Diagnostics	2	-	2	2	-	2
Microgenics DRI	10	-	10	10	-	10
Mindray BS-200	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
Roche Integra	3	-	3	3	-	3
Siemens Dimension	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 300	45	-	45	45	-	45
Cut-off 1000						
Instant Technologies i Screen	5	-	5	5	-	5
All Cut-off 1000	5	-	5	5	-	5
Cut-off 2000						
Alfa Scientific Instant-View	1	-	1	1	-	1
Amedica Biotech	1	-	1	1	-	1
BMC QuickTox Drug Screen	1	-	1	1	-	1
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
Germaine Laboratories AimScreen	2	-	2	2	-	2
Innovacon Multi-Drug One Step	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Cassette	5	-	5	5	-	5
Instant Technologies iCup	4	-	4	4	-	4
Integrated E-Z Split Key Cup / II	2	-	2	2	-	2
Noble Medical Inc.	1	-	1	1	-	1
Reveal Multi-Drug Testing Cup	1	-	1	1	-	1
All Cut-off 2000	22	-	22	22	-	22

Oxycodone (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	72	70	2	71	1	70
Cut-off 100						
Amedica Biotech	1	1	-	1	-	1
Beckman AU	3	3	-	3	-	3
Bio-Rad TOX/See	3	3	-	3	-	3
BMC QuickTox Drug Screen	2	2	-	2	-	2
Clarity Diagnostics Urine Panels/Cassettes	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
Innovacon Multi-Drug One Step	1	1	-	1	-	1
Instant Technologies i Cassette	4	4	-	4	-	4
Instant Technologies iCup	6	6	-	6	-	6
Integrated E-Z Split Key Cup / II	1	1	-	1	-	1
Lin-Zhi International	9	9	-	9	-	9
Medica EasyRA	1	1	-	1	-	1
MEDTOX Diagnostics	3	3	-	3	-	3
Microgenics DRI	10	10	-	10	-	10
Mindray BS-200	1	1	-	1	-	1
Redwood Toxicology Reditest	1	1	-	1	-	1
Reveal Multi-Drug Testing Cup	1	1	-	1	-	1
Roche Integra	2	2	-	2	-	2
All Cut-off 100	51	51	-	51	-	51
Cut-off 300						
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Dade Behring EMIT II Plus	2	2	-	2	-	2
Indiko Plus	1	1	-	1	-	1
Lin-Zhi International	1	1	-	1	-	1
Microgenics DRI	1	1	-	1	-	1
All Cut-off 300	6	6	-	6	-	6

Phencyclidine (PCP) (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	68	2	66	67	1	66
Cut-off 25						
Alere Triage	1	-	1	1	-	1
Amedica Biotech	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	3	-	3	3	-	3
BMC QuickTox Drug Screen	2	-	2	2	-	2
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
Dade Behring EMIT II Plus	3	-	3	3	-	3
Innovacon Multi-Drug One Step	2	-	2	2	-	2
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Cassette	5	-	5	5	-	5
Instant Technologies i Screen	5	-	5	5	-	5
Instant Technologies iCup	3	-	3	3	-	3
Integrated E-Z Split Key Cup / II	2	-	2	2	-	2
Lin-Zhi International	1	1	-	1	-	1
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	3	-	3	3	-	3
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
Reveal Multi-Drug Testing Cup	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Synermed IR 500	1	-	1	1	-	1
All Cut-off 25	47	1	46	47	-	47

Propoxyphene (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	20	1	19	20	1	19
Cut-off 300						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	3	-	3	3	-	3
Instant Technologies i Cassette	3	-	3	3	-	3
Instant Technologies iCup	2	-	2	2	-	2
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics DRI	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
All Cut-off 300	16	-	16	16	-	16

Tricyclic Antidepressants (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	26	-	26	26	26	-
Cut-off 300						
Beckman AU	1	-	1	1	1	-
Medica EasyRA	1	-	1	1	1	-
MEDTOX Diagnostics	3	-	3	3	3	-
All Cut-off 300	5	-	5	5	5	-
Cut-off 1000						
Alere Triage	1	-	1	1	1	-
Amedica Biotech	2	-	2	2	2	-
Bio-Rad TOX/See	3	-	3	3	3	-
BMC QuickTox Drug Screen	1	-	1	1	1	-
Instant Technologies i Cassette	2	-	2	2	2	-
Instant Technologies iCup	3	-	3	3	3	-
All Cut-off 1000	12	-	12	12	12	-

Whole Blood Glucose (mg/dL)

	Specimen WBG-1						Specimen WBG-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	413	200.5	51.4	25.7	189	160 - 241	416	280.1	76.1	27.2	268	224 - 337
All Abbott Methods	43	202.6	22.2	11.0	196	162 - 244	43	280.7	25.3	9.0	275	224 - 337
All Arkray Methods	28	339.1	18.4	5.4	347	271 - 407	30	470.9	35.4	7.5	476	376 - 566
All Bayer Methods	82	148.1	8.1	5.5	147	118 - 178	82	205.6	13.6	6.6	203	164 - 247
All Hemocue Methods	62	217.2	5.8	2.7	217	173 - 261	64	305.7	8.9	2.9	305	244 - 367
All Lifescan Methods	55	220.2	38.2	17.3	225	176 - 265	55	294.2	43.4	14.8	311	235 - 354
All Roche Methods	59	184.6	7.0	3.8	187	147 - 222	60	256.2	7.8	3.0	257	204 - 308
Abbott FreeStyle Freedom	5	176.8	8.8	5.0	178	141 - 213	5	250.4	7.2	2.9	252	200 - 301
Abbott FreeStyle Lite	9	184.2	7.3	3.9	186	147 - 222	9	261.2	9.6	3.7	264	208 - 314
Abbott Precis. Xtra/Optium	13	228.3	14.1	6.2	230	182 - 274	13	309.2	16.9	5.5	310	247 - 372
Abbott Precision XceedPro	15	201.9	11.6	5.7	198	161 - 243	14	276.1	8.1	2.9	277	220 - 332
Arkray Platinum	26	340.9	16.5	4.8	347	272 - 410	26	480.9	24.1	5.0	477	384 - 578
Bayer Contour	82	148.1	8.1	5.5	147	118 - 178	82	205.6	13.6	6.6	203	164 - 247
HemoCue 201	61	217.3	5.8	2.7	217	173 - 261	63	305.8	9.0	2.9	305	244 - 367
Home Diagnostics True Result	7	132.9	20.1	15.2	142	106 - 160	7	225.7	165.5	73.3	166	180 - 271
Home Diagnostics TrueTrack / TrueBalance	25	493.5	15.7	3.2	496	394 - 593	24	580.5	15.9	2.7	581	464 - 697
Lifescan FastTake	5	148.2	24.7	16.7	143	118 - 178	5	189.8	7.6	4.0	189	151 - 228
Lifescan One Touch Ultra/2/Mini	39	236.1	26.6	11.3	229	188 - 284	37	316.4	10.4	3.3	315	253 - 380
LifeScan OneTouch Verio	5	183.0	9.6	5.2	182	146 - 220	5	255.8	9.6	3.8	256	204 - 307
Medline EvenCare G2	9	241.0	20.1	8.3	244	192 - 290	9	340.1	26.6	7.8	337	272 - 409
NOVA Biomedical StatStrip	23	168.8	10.2	6.0	168	135 - 203	23	228.6	12.8	5.6	229	182 - 275
PSS Quintet Glucose Monitoring System	24	196.7	25.1	12.8	184	157 - 237	24	288.9	23.4	8.1	280	231 - 347
Roche Accu-Chek Aviva	29	182.4	5.9	3.2	183	145 - 219	29	254.5	8.3	3.3	254	203 - 306
Roche Accu-Chek Inform II	14	188.6	6.1	3.3	191	150 - 227	14	260.9	6.4	2.5	262	208 - 314
Roche Accu-Chek Performa	15	186.9	4.7	2.5	188	149 - 225	15	256.7	5.0	1.9	258	205 - 309
Yellow Springs (YSI)	6	161.7	3.8	2.3	161	129 - 195	6	223.2	7.1	3.2	225	178 - 268
	Specimen WBG-3						**Specimen WBG-4**					
All Method	24	101.2	12.8	12.7	105	80 - 122	24	135.5	19.0	14.1	140	108 - 163
All Abbott Methods	3	-	-	-	103	80 - 121	3	-	-	-	138	108 - 163
All Bayer Methods	2	-	-	-	74	59 - 89	2	-	-	-	98	78 - 117
All Lifescan Methods	11	109.5	5.6	5.1	111	87 - 132	11	148.6	5.2	3.5	151	118 - 179
All Roche Methods	6	94.0	2.3	2.4	94	75 - 113	6	121.8	2.1	1.8	122	97 - 147
Abbott FreeStyle Lite	1	-	-	-	89	80 - 122	1	-	-	-	119	108 - 163
Abbott Precis. Xtra/Optium	2	-	-	-	106	80 - 122	2	-	-	-	144	108 - 163
Bayer Contour	2	-	-	-	74	80 - 122	2	-	-	-	98	108 - 163
Home Diagnostics TrueTrack / TrueBalance	1	-	-	-	284	Not graded	1	-	-	-	365	Not graded
Lifescan One Touch Ultra/2/Mini	11	109.5	5.6	5.1	111	87 - 132	11	148.6	5.2	3.5	151	118 - 179
Medline EvenCare G2	1	-	-	-	124	80 - 122	1	-	-	-	170	108 - 163
Roche Accu-Chek Inform II	1	-	-	-	98	75 - 113	1	-	-	-	125	97 - 147
Roche Accu-Chek Performa	5	93.2	1.3	1.4	94	74 - 112	5	121.2	1.6	1.4	120	96 - 146
Yellow Springs (YSI)	1	-	-	-	88	80 - 122	1	-	-	-	114	108 - 163

Whole Blood Glucose (mg/dL) cont'd

	Specimen WBG-5					
All Method	24	176.2	29.0	16.5	190	140 - 212
All Abbott Methods	3	-	-	-	185	140 - 212
All Bayer Methods	2	-	-	-	123	98 - 148
All Lifescan Methods	11	196.8	9.1	4.6	197	157 - 237
All Roche Methods	6	153.3	3.7	2.4	153	122 - 184
Abbott FreeStyle Lite	1	-	-	-	149	140 - 212
Abbott Precis. Xtra/Optium	2	-	-	-	190	140 - 212
Bayer Contour	2	-	-	-	123	140 - 212
Home Diagnostics TrueTrack / TrueBalance	1	-	-	-	424	Not graded
Lifescan One Touch Ultra/2/Mini	11	196.8	9.1	4.6	197	157 - 237
Medline EvenCare G2	1	-	-	-	228	140 - 212
Roche Accu-Chek Inform II	1	-	-	-	160	122 - 184
Roche Accu-Chek Performa	5	152.0	2.0	1.3	152	121 - 183
Yellow Springs (YSI)	1	-	-	-	142	140 - 212

Fructosamine (mmol/L)

	Specimen FR-1						Specimen FR-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	1.76	Not graded	2	-	-	-	0.5	Not graded

Fructosamine (μmol/L)

	Specimen FR-1						Specimen FR-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	861.8	54.1	6.3	871	603 - 1121	5	71.4	17.1	23.9	79	26 - 117

Urine Amylase (U/L)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	90	Not graded	1	-	-	-	236	Not graded

Urine Chloride (mmol/L)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	111	Not graded	2	-	-	-	265	2

Urine Creatinine (mg/dL)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	72.86	5.84	8.0	70.8	60.4 - 85.3	7	198.67	12.33	6.2	193.2	164.8 - 232.5

Urine Glucose (mg/dL)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	25	Not graded	1	-	-	-	279	Not graded

Urine Potassium (mmol/L)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	23.7	Not graded	2	-	-	-	102.3	Not graded

Urine Sodium (mmol/L)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	81	Not graded	2	-	-	-	183	Not graded

Urine Total Protein (mg/dL)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	12.16	3.91	32.2	12.5	6.8 - 17.6	5	91.62	12.90	14.1	91.0	51.3 - 132.0

Urine Urea Nitrogen (mg/dL)

	Specimen UCH-1						Specimen UCH-1					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	424	Not graded	1	-	-	-	736	Not graded

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