MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Chemistry
2019 MLE-M2

ACP | Medical Laboratory Evaluation

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

Table of Contents

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	± 20%
Acetone	80% Consensus
Albumin	± 10%
Alcohol	± 25%
Alpha-fetoprotein	± 3 SD
Alkaline Phosphatase	± 30%
ALT (SGPT)	± 20%
Ammonia	± 2 SD or 5% *
Amylase	± 30%
Apoliprotein A1	± 30%
Apoliprotein B	± 30%
AST (SGOT)	± 20%
B-Type Natriuretic Peptide (BNP)	± 2 SD or 25% *
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	± 2 SD or 30% *
CA 15-3	± 2 SD or 30% *
CA 19-9	± 2 SD or 30% *
CA 27/29	± 2 SD or 30% *
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	± 30%
Digoxin	± 0.2 mg/dL or 20% *
Estradiol	± 2 SD
Ferritin	± 30%
Folate	± 1.0 ng/mL 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	± 6%
HDL Cholesterol	± 30%
HCG, Serum—Qualitative	80% Consensus
HCG, Serum—Quantitative	± 3 SD
Hematocrit	± 6%
Hemoglobin	± 7%
Homocysteine	± 30%
Insulin	± 2 SD
Iron	± 20%
Lactate Dehydrogenase	± 20%
Lactate (Lactic Acid)	± 0.4 mmol/L or 3 SD *
LDL Cholesterol	± 2 SD or 30% *
Lipase	± 30%
LH	± 2 SD or 20% *
Lithium	± 0.3 mmol/L or 20% *
Magnesium	± 25%
Myoglobin	± 2 SD or 30% *
NT-proBNP	± 2 SD or 25% *
Parathyroid Hormone, Intact	± 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	± 20%
SHBG	± 3 SD
Sodium	± 4.0 mmol/L
T_3 Uptake (% Uptake)	± 3 SD
T3, Free	± 3 SD
T4, Free	± 3 SD
tCO_2	± 20%
Testosterone	± 30%
Testosterone, Bioavailable	± 3 SD
Testosterone, Free	± 3 SD
Theophylline	± 25%
Thyroglobulin	± 2 SD
Thyroglobulin Antibody	± 3 SD
Thyroid Peroxidase Antibody (TPO)	± 3 SD
Thyroxine, Total T_4	± 1.0 µg/dL or 20% *
TIBC	± 2 SD or 20% *
Transferrin	± 10%
Triglyceride	± 25%
Triiodothyronine, Total T_3	± 3 SD
Troponin I	± 2 SD or 30% *
Troponin T	± 2 SD or 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	± 25%
Vitamin B_{12}	± 30%
Vitamin D	± 2 SD
Troponin I	± 2 SD or 30% *
Troponin T	± 30%

*Whichever is greater

Sodium (mmol/L)

	Specimen IST-6						Specimen IST-7					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	102	131.8	0.6	0.4	132	127 - 136	102	137.9	0.7	0.5	138	133 - 142
All i-STAT Instruments	102	131.8	0.6	0.4	132	127 - 136	102	137.9	0.7	0.5	138	133 - 142
i-STAT - waived	94	131.8	0.6	0.4	132	127 - 136	94	137.9	0.7	0.5	138	133 - 142

	Specimen IST-8						Specimen IST-9					
All Method	89	155.5	0.6	0.4	155	151 - 160	90	137.7	0.5	0.4	138	133 - 142
All i-STAT Instruments	89	155.5	0.6	0.4	155	151 - 160	90	137.7	0.5	0.4	138	133 - 142
i-STAT - waived	81	155.5	0.6	0.4	155	151 - 160	82	137.7	0.5	0.4	138	133 - 142

	Specimen IST-10					
All Method	88	149.1	0.6	0.4	149	145 - 154
All i-STAT Instruments	88	149.1	0.6	0.4	149	145 - 154
i-STAT - waived	80	149.2	0.5	0.4	149	145 - 154

Potassium (mmol/L)

	Specimen IST-6						Specimen IST-7					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	96	3.40	0.01	0.0	3.4	2.9 - 3.9	99	4.40	0.01	0.0	4.4	3.9 - 4.9
All i-STAT Instruments	96	3.40	0.01	0.0	3.4	2.9 - 3.9	99	4.40	0.01	0.0	4.4	3.9 - 4.9
i-STAT - moderate	10	3.41	0.03	0.9	3.4	2.9 - 4.0	10	4.40	0.05	1.1	4.4	3.9 - 4.9
i-STAT - waived	87	3.40	0.01	0.0	3.4	2.9 - 3.9	91	4.40	0.01	0.0	4.4	3.9 - 4.9

	Specimen IST-8						Specimen IST-9					
All Method	88	4.60	0.01	0.0	4.6	4.1 - 5.1	89	4.40	0.01	0.0	4.4	3.9 - 4.9
All i-STAT Instruments	88	4.60	0.01	0.0	4.6	4.1 - 5.1	89	4.40	0.01	0.0	4.4	3.9 - 4.9
i-STAT - moderate	10	4.59	0.03	0.7	4.6	4.0 - 5.1	10	4.41	0.03	0.7	4.4	3.9 - 5.0
i-STAT - waived	79	4.60	0.01	0.0	4.6	4.1 - 5.1	80	4.40	0.01	0.0	4.4	3.9 - 4.9

	Specimen IST-10					
All Method	91	6.19	0.03	0.5	6.2	5.6 - 6.7
All i-STAT Instruments	91	6.19	0.03	0.5	6.2	5.6 - 6.7
i-STAT - moderate	10	6.18	0.04	0.7	6.2	5.6 - 6.7
i-STAT - waived	73	6.20	0.01	0.0	6.2	5.7 - 6.7

Chloride (mmol/L)

	Specimen IST-6						Specimen IST-7					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	105	112.4	0.7	0.6	112	106 - 118	103	91.6	0.6	0.7	92	87 - 97
All i-STAT Instruments	105	112.4	0.7	0.6	112	106 - 118	103	91.6	0.6	0.7	92	87 - 97
i-STAT - moderate	10	112.3	0.8	0.7	113	106 - 118	10	91.0	0.9	1.0	91	86 - 96
i-STAT - waived	95	112.4	0.7	0.6	112	106 - 118	94	91.6	0.6	0.6	92	87 - 97
	Specimen IST-8						**Specimen IST-9**					
All Method	90	97.3	0.6	0.6	97	92 - 103	91	91.4	0.6	0.6	91	86 - 97
All i-STAT Instruments	90	97.3	0.6	0.6	97	92 - 103	91	91.4	0.6	0.6	91	86 - 97
i-STAT - moderate	10	96.9	1.2	1.2	97	92 - 102	10	91.0	0.9	1.0	91	86 - 96
i-STAT - waived	81	97.4	0.6	0.6	97	92 - 103	82	91.5	0.5	0.6	91	86 - 97
	Specimen IST-10											
All Method	92	105.3	0.6	0.6	105	99 - 111						
All i-STAT Instruments	92	105.3	0.6	0.6	105	99 - 111						
i-STAT - moderate	10	105.1	0.7	0.7	105	99 - 111						
i-STAT - waived	82	105.3	0.6	0.6	105	100 - 111						

tCO_2 (mmol/L)

	Specimen IST-6						Specimen IST-7					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	96	18.6	0.8	4.1	19	14 - 23	99	28.3	1.1	4.0	28	22 - 34
All i-STAT Instruments	96	18.6	0.8	4.1	19	14 - 23	99	28.3	1.1	4.0	28	22 - 34
i-STAT - waived	88	18.7	0.8	4.1	19	14 - 23	91	28.3	1.1	4.0	28	22 - 34
	Specimen IST-8						**Specimen IST-9**					
All Method	88	25.6	0.9	3.5	26	20 - 31	88	28.5	1.0	3.4	29	22 - 35
All i-STAT Instruments	88	25.6	0.9	3.5	26	20 - 31	88	28.5	1.0	3.4	29	22 - 35
i-STAT - waived	80	25.6	0.9	3.5	26	20 - 31	80	28.5	1.0	3.5	29	22 - 35
	Specimen IST-10											
All Method	89	17.6	0.7	4.2	18	14 - 22						
All i-STAT Instruments	89	17.6	0.7	4.2	18	14 - 22						
i-STAT - waived	81	17.6	0.7	4.1	18	14 - 22						

Urea Nitrogen (BUN) (mg/dL)

	Specimen IST-6						Specimen IST-7					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	105	5.2	0.4	8.2	5	3 - 8	103	34.6	0.8	2.3	35	31 - 38
All i-STAT Instruments	105	5.2	0.4	8.2	5	3 - 8	103	34.6	0.8	2.3	35	31 - 38
i-STAT - waived	96	5.2	0.4	8.1	5	3 - 8	94	34.6	0.7	2.1	35	31 - 38
	Specimen IST-8						**Specimen IST-9**					
All Method	91	54.0	1.4	2.6	54	49 - 59	90	34.8	0.8	2.4	35	31 - 38
All i-STAT Instruments	91	54.0	1.4	2.6	54	49 - 59	90	34.8	0.8	2.4	35	31 - 38
i-STAT - waived	82	54.0	1.4	2.6	54	49 - 59	81	34.8	0.8	2.4	35	31 - 38
	Specimen IST-10											
All Method	92	21.3	0.5	2.3	21	19 - 24						
All i-STAT Instruments	92	21.3	0.5	2.3	21	19 - 24						
i-STAT - waived	83	21.3	0.5	2.2	21	19 - 24						

Glucose (mg/dL)

	Specimen IST-6						Specimen IST-7					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	105	36.5	1.0	2.7	36	30 - 43	105	86.5	1.4	1.6	86	77 - 96
All i-STAT Instruments	105	36.5	1.0	2.7	36	30 - 43	105	86.5	1.4	1.6	86	77 - 96
i-STAT - waived	96	36.6	1.0	2.7	36	30 - 43	96	86.5	1.4	1.6	86	77 - 96
	Specimen IST-8						**Specimen IST-9**					
All Method	92	195.2	2.0	1.0	195	175 - 215	92	86.4	1.2	1.4	86	77 - 96
All i-STAT Instruments	92	195.2	2.0	1.0	195	175 - 215	92	86.4	1.2	1.4	86	77 - 96
i-STAT - waived	83	195.1	2.0	1.0	195	175 - 215	83	86.4	1.2	1.4	87	77 - 96
	Specimen IST-10											
All Method	91	84.7	0.9	1.0	85	76 - 94						
All i-STAT Instruments	91	84.7	0.9	1.0	85	76 - 94						
i-STAT - waived	82	84.8	0.8	1.0	85	76 - 94						

Hematocrit (percent)

	Specimen IST-6						Specimen IST-7					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	18	18.8	0.6	3.4	19	17 - 20	18	36.2	1.1	2.9	36	34 - 39
All i-STAT Instruments	18	18.8	0.6	3.4	19	17 - 20	18	36.2	1.1	2.9	36	34 - 39
i-STAT - waived	17	18.8	0.6	3.4	19	17 - 20	17	36.3	1.0	2.9	36	34 - 39
	Specimen IST-8						**Specimen IST-9**					
All Method	12	32.1	0.4	1.1	32	30 - 35	12	36.1	0.4	1.0	36	33 - 39
All i-STAT Instruments	12	32.1	0.4	1.1	32	30 - 35	12	36.1	0.4	1.0	36	33 - 39
i-STAT - waived	10	32.1	0.4	1.2	32	30 - 35	10	36.1	0.4	1.0	36	33 - 39
	Specimen IST-10											
All Method	12	27.0	0.1	0.0	27	25 - 29						
All i-STAT Instruments	12	27.0	0.1	0.0	27	25 - 29						
i-STAT - waived	10	27.0	0.1	0.0	27	25 - 29						

Hemoglobin (g/dL)

	Specimen IST-6						Specimen IST-7					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	18	6.40	0.24	3.7	6.5	5.9 - 6.9	18	12.30	0.37	3.0	12.2	11.4 - 13.2
All i-STAT Instruments	18	6.40	0.24	3.7	6.5	5.9 - 6.9	18	12.30	0.37	3.0	12.2	11.4 - 13.2
i-STAT - waived	17	6.42	0.23	3.6	6.5	5.9 - 6.9	17	12.32	0.37	3.0	12.2	11.4 - 13.2
	Specimen IST-8						**Specimen IST-9**					
All Method	12	10.94	0.11	1.0	10.9	10.1 - 11.8	12	12.25	0.14	1.2	12.2	11.3 - 13.2
All i-STAT Instruments	12	10.94	0.11	1.0	10.9	10.1 - 11.8	12	12.25	0.14	1.2	12.2	11.3 - 13.2
i-STAT - waived	10	10.94	0.11	1.0	10.9	10.1 - 11.8	10	12.26	0.15	1.2	12.2	11.3 - 13.2
	Specimen IST-10											
All Method	12	9.20	0.01	0.0	9.2	8.5 - 9.9						
All i-STAT Instruments	12	9.20	0.01	0.0	9.2	8.5 - 9.9						
i-STAT - waived	10	9.20	0.01	0.0	9.2	8.5 - 9.9						

Creatinine (mg/dL)

Instrument	Specimen IST-6 Labs	Mean	SD	CV	Median	Range	Specimen IST-7 Labs	Mean	SD	CV	Median	Range
All Method	115	6.91	0.25	3.6	6.9	5.8 - 8.0	113	2.45	0.07	3.0	2.5	2.0 - 2.9
All i-STAT Instruments	115	6.91	0.25	3.6	6.9	5.8 - 8.0	113	2.45	0.07	3.0	2.5	2.0 - 2.9
i-STAT - waived	106	6.92	0.25	3.7	6.9	5.8 - 8.0	104	2.45	0.07	3.1	2.5	2.0 - 2.9

Instrument	Specimen IST-8 Labs	Mean	SD	CV	Median	Range	Specimen IST-9 Labs	Mean	SD	CV	Median	Range
All Method	90	4.62	0.14	3.1	4.6	3.9 - 5.4	90	2.46	0.07	2.9	2.5	2.0 - 2.9
All i-STAT Instruments	90	4.62	0.14	3.1	4.6	3.9 - 5.4	90	2.46	0.07	2.9	2.5	2.0 - 2.9
i-STAT - waived	81	4.62	0.15	3.2	4.6	3.9 - 5.4	81	2.46	0.07	3.0	2.5	2.0 - 2.9

Instrument	Specimen IST-10 Labs	Mean	SD	CV	Median	Range
All Method	91	1.03	0.05	4.6	1.0	0.7 - 1.4
All i-STAT Instruments	91	1.03	0.05	4.6	1.0	0.7 - 1.4
i-STAT - waived	82	1.03	0.05	4.6	1.0	0.7 - 1.4

Ionized Calcium (mmol/L)

Instrument	Specimen IST-6 Labs	Mean	SD	CV	Median	Range	Specimen IST-7 Labs	Mean	SD	CV	Median	Range
All Method	96	2.481	0.016	0.6	2.48	2.43 - 2.53	97	1.294	0.010	0.8	1.29	1.26 - 1.33
All i-STAT Instruments	96	2.481	0.016	0.6	2.48	2.43 - 2.53	97	1.294	0.010	0.8	1.29	1.26 - 1.33
i-STAT - waived	88	2.481	0.015	0.6	2.48	2.43 - 2.53	89	1.294	0.010	0.8	1.29	1.26 - 1.33

Instrument	Specimen IST-8 Labs	Mean	SD	CV	Median	Range	Specimen IST-9 Labs	Mean	SD	CV	Median	Range
All Method	85	0.956	0.006	0.6	0.96	0.93 - 0.98	85	1.293	0.008	0.6	1.29	1.26 - 1.32
All i-STAT Instruments	85	0.956	0.006	0.6	0.96	0.93 - 0.98	85	1.293	0.008	0.6	1.29	1.26 - 1.32
i-STAT - waived	77	0.955	0.006	0.6	0.96	0.93 - 0.98	79	1.293	0.009	0.7	1.29	1.26 - 1.33

Instrument	Specimen IST-10 Labs	Mean	SD	CV	Median	Range
All Method	87	0.780	0.007	0.9	0.78	0.75 - 0.81
All i-STAT Instruments	87	0.780	0.007	0.9	0.78	0.75 - 0.81
i-STAT - waived	79	0.780	0.007	0.9	0.78	0.75 - 0.81

Albumin (g/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	219	3.44	0.41	12.0	3.6	3.0 - 3.8	220	2.94	0.31	10.7	3.0	2.6 - 3.3
All Bromocresol Green Reagents	154	3.67	0.18	5.0	3.7	3.3 - 4.1	154	3.11	0.17	5.6	3.1	2.7 - 3.5
All Bromocresol Purple Reagents	59	2.82	0.06	2.3	2.8	2.5 - 3.2	59	2.50	0.05	2.0	2.5	2.2 - 2.8
Abaxis Piccolo												
Abaxis Piccolo - waived	19	2.79	0.07	2.6	2.8	2.5 - 3.1	19	2.49	0.05	2.1	2.5	2.2 - 2.8
All Chemistry Instruments	25	2.80	0.07	2.6	2.8	2.5 - 3.1	25	2.51	0.06	2.4	2.5	2.2 - 2.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	3.72	0.09	2.5	3.7	3.3 - 4.1	23	3.17	0.08	2.6	3.2	2.8 - 3.5
Beckman AU												
Beckman AU systems	31	3.66	0.09	2.4	3.7	3.2 - 4.1	31	3.10	0.11	3.5	3.1	2.7 - 3.5
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	3.51	0.13	3.6	3.5	3.1 - 3.9	19	3.02	0.09	2.8	3.0	2.7 - 3.4
All Chemistry Instruments	20	3.51	0.12	3.5	3.5	3.1 - 3.9	20	3.02	0.08	2.8	3.0	2.7 - 3.4
Roche Integra												
Roche Integra	18	3.82	0.11	2.9	3.8	3.4 - 4.2	18	3.23	0.12	3.7	3.2	2.9 - 3.6
Siemens Healthcare												
Siemens Dimension	31	2.83	0.05	1.9	2.8	2.5 - 3.2	31	2.49	0.04	1.7	2.5	2.2 - 2.8
All Chemistry Instruments	33	2.83	0.05	1.9	2.8	2.5 - 3.2	33	2.49	0.04	1.7	2.5	2.2 - 2.8
VITROS												
VITROS 250,350,400 500,700,750,950	27	3.56	0.18	5.1	3.6	3.2 - 4.0	28	2.90	0.12	4.0	2.9	2.6 - 3.2
All Chemistry Instruments	29	3.57	0.18	5.1	3.6	3.2 - 4.0	30	2.89	0.13	4.3	2.9	2.5 - 3.2

Albumin (g/dL)

	Specimen CH-8						Specimen CH-9					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	203	3.40	0.36	10.7	3.5	3.0 - 3.8	204	2.76	0.26	9.5	2.8	2.4 - 3.1
All Bromocresol Green Reagents	152	3.58	0.16	4.5	3.6	3.2 - 4.0	153	2.88	0.16	5.7	2.9	2.5 - 3.2
All Bromocresol Purple Reagents	43	2.77	0.07	2.5	2.8	2.4 - 3.1	42	2.35	0.07	3.0	2.3	2.1 - 2.6
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	2.8	2.4 - 3.1	4	-	-	-	2.5	2.1 - 2.6
All Chemistry Instruments	9	-	-	-	2.8	2.4 - 3.1	9	-	-	-	2.4	2.1 - 2.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	3.63	0.08	2.3	3.6	3.2 - 4.0	22	2.96	0.07	2.5	3.0	2.6 - 3.3
Beckman AU												
Beckman AU systems	30	3.56	0.10	2.7	3.6	3.2 - 4.0	31	2.87	0.07	2.3	2.9	2.5 - 3.2
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	3.42	0.13	3.8	3.5	3.0 - 3.8	19	2.83	0.11	3.9	2.8	2.5 - 3.2
All Chemistry Instruments	20	3.42	0.13	3.7	3.5	3.0 - 3.8	20	2.83	0.11	3.8	2.8	2.5 - 3.2
Roche Integra												
Roche Integra	18	3.69	0.10	2.6	3.7	3.3 - 4.1	18	2.97	0.10	3.5	3.0	2.6 - 3.3
Siemens Healthcare												
Siemens Dimension	31	2.77	0.06	2.3	2.8	2.4 - 3.1	31	2.33	0.06	2.6	2.3	2.0 - 2.6
All Chemistry Instruments	33	2.78	0.06	2.2	2.8	2.4 - 3.1	33	2.33	0.06	2.5	2.3	2.0 - 2.6
VITROS												
VITROS 250,350,400 500,700,750,950	28	3.46	0.16	4.6	3.4	3.1 - 3.9	28	2.64	0.10	3.9	2.6	2.3 - 2.9
All Chemistry Instruments	30	3.46	0.16	4.5	3.4	3.1 - 3.9	30	2.63	0.12	4.5	2.6	2.3 - 2.9

Albumin (g/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	200	2.10	0.18	8.5	2.1	1.8 - 2.4
All Bromocresol Green Reagents	151	2.14	0.17	7.9	2.2	1.9 - 2.4
All Bromocresol Purple Reagents	44	1.93	0.09	4.6	1.9	1.7 - 2.2
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	2.1	1.7 - 2.2
All Chemistry Instruments	9	-	-	-	2.1	1.8 - 2.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	23	2.26	0.05	2.2	2.3	2.0 - 2.5
Beckman AU						
Beckman AU systems	31	2.12	0.08	3.7	2.1	1.9 - 2.4
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	19	2.19	0.09	4.0	2.2	1.9 - 2.5
All Chemistry Instruments	20	2.19	0.09	3.9	2.2	1.9 - 2.5
Roche Integra						
Roche Integra	18	2.20	0.07	3.1	2.2	1.9 - 2.5
Siemens Healthcare						
Siemens Dimension	31	1.88	0.05	2.5	1.9	1.6 - 2.1
All Chemistry Instruments	33	1.88	0.05	2.5	1.9	1.6 - 2.1
VITROS						
VITROS 250,350,400 500,700,750,950	27	1.87	0.08	4.3	1.9	1.6 - 2.1
All Chemistry Instruments	28	1.88	0.08	4.3	1.9	1.6 - 2.1

Bilirubin, Direct (mg/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	131	1.24	0.44	35.4	1.2	0.3 - 2.2	130	0.93	0.33	35.1	1.0	0.2 - 1.6
All Alfa Wassermann Reagents	16	1.71	0.17	10.0	1.7	1.3 - 2.1	16	1.31	0.14	11.0	1.3	1.0 - 1.6
All Roche Reagents	24	0.95	0.09	9.3	1.0	0.7 - 1.2	24	0.68	0.07	10.3	0.7	0.5 - 0.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	1.71	0.17	10.0	1.7	1.3 - 2.1	16	1.31	0.14	11.0	1.3	1.0 - 1.6
Beckman AU												
Beckman AU systems	20	1.45	0.09	6.5	1.5	1.2 - 1.7	20	1.11	0.08	7.1	1.1	0.9 - 1.3
Roche Integra												
Roche Integra	13	1.00	0.06	5.8	1.0	0.8 - 1.2	13	0.71	0.06	9.1	0.7	0.5 - 0.9
Siemens Healthcare												
Siemens Dimension	23	0.97	0.06	5.9	1.0	0.8 - 1.1	23	0.70	0.06	8.6	0.7	0.5 - 0.9
All Chemistry Instruments	26	0.98	0.07	6.7	1.0	0.8 - 1.2	26	0.71	0.07	9.7	0.7	0.5 - 0.9
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	17	1.12	0.76	67.3	1.2	0.0 - 2.7	17	0.81	0.51	63.8	1.0	0.0 - 1.9
All Chemistry Instruments	18	1.14	0.74	64.6	1.4	0.0 - 2.7	18	0.81	0.50	61.6	1.0	0.0 - 1.9

	Specimen CH-8						Specimen CH-9					
All Method	130	1.23	0.39	31.5	1.3	0.4 - 2.1	131	0.78	0.29	37.2	0.8	0.2 - 1.4
All Alfa Wassermann Reagents	16	1.70	0.17	9.8	1.7	1.3 - 2.1	16	1.09	0.13	12.3	1.1	0.8 - 1.4
All Roche Reagents	24	0.90	0.08	8.7	0.9	0.7 - 1.1	24	0.57	0.06	9.6	0.6	0.4 - 0.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	1.70	0.17	9.8	1.7	1.3 - 2.1	16	1.09	0.13	12.3	1.1	0.8 - 1.4
Beckman AU												
Beckman AU systems	20	1.44	0.09	6.5	1.5	1.2 - 1.7	20	0.97	0.06	5.9	1.0	0.8 - 1.1
Roche Integra												
Roche Integra	13	0.95	0.05	5.5	0.9	0.8 - 1.1	13	0.59	0.05	8.3	0.6	0.4 - 0.7
Siemens Healthcare												
Siemens Dimension	23	0.93	0.06	6.9	0.9	0.8 - 1.1	23	0.57	0.06	10.1	0.6	0.4 - 0.7
All Chemistry Instruments	26	0.94	0.07	7.5	0.9	0.8 - 1.1	26	0.58	0.07	11.3	0.6	0.4 - 0.8
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	17	1.18	0.63	54.0	1.4	0.0 - 2.5	17	0.64	0.44	68.8	0.7	0.0 - 1.6
All Chemistry Instruments	18	1.19	0.62	52.0	1.4	0.0 - 2.5	18	0.64	0.43	66.1	0.8	0.0 - 1.5

Bilirubin, Direct (mg/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	130	0.35	0.16	44.9	0.3	0.0 - 0.7
All Alfa Wassermann Reagents	16	0.52	0.09	17.6	0.5	0.3 - 0.8
All Roche Reagents	24	0.25	0.05	20.0	0.3	0.1 - 0.4
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	0.52	0.09	17.6	0.5	0.3 - 0.8
Beckman AU						
Beckman AU systems	20	0.48	0.04	8.5	0.5	0.3 - 0.6
Roche Integra						
Roche Integra	13	0.25	0.05	21.1	0.2	0.1 - 0.4
Siemens Healthcare						
Siemens Dimension	23	0.24	0.05	20.8	0.2	0.1 - 0.4
All Chemistry Instruments	26	0.25	0.05	20.4	0.3	0.1 - 0.4
VITROS-BuBc and Bc						
VITROS 250,350,400 500,700,750,950	16	0.25	0.21	83.9	0.3	0.0 - 0.7
All Chemistry Instruments	17	0.24	0.21	85.6	0.3	0.0 - 0.7

Bilirubin, Total (mg/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	211	4.45	0.42	9.4	4.4	3.5 - 5.4	214	3.14	0.30	9.6	3.1	2.5 - 3.8
All Alfa Wassermann Reagents	26	5.27	0.28	5.3	5.2	4.2 - 6.4	27	3.73	0.21	5.6	3.7	2.9 - 4.5
All Horiba Pentra Reagents	19	4.42	0.21	4.7	4.4	3.5 - 5.3	19	3.10	0.14	4.4	3.1	2.4 - 3.8
All Roche T. bili Special Reagents	26	4.13	0.17	4.0	4.1	3.3 - 5.0	26	2.88	0.12	4.1	2.9	2.3 - 3.5
Abaxis Piccolo												
Abaxis Piccolo - waived	18	4.07	0.23	5.8	4.2	3.2 - 4.9	18	2.92	0.19	6.4	3.0	2.3 - 3.6
All Chemistry Instruments	24	4.08	0.22	5.5	4.1	3.2 - 4.9	24	2.93	0.16	5.6	3.0	2.3 - 3.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	5.28	0.28	5.2	5.2	4.2 - 6.4	26	3.73	0.21	5.7	3.7	2.9 - 4.5
Beckman AU												
Beckman AU systems	30	4.42	0.23	5.2	4.5	3.5 - 5.4	30	3.16	0.16	5.1	3.2	2.5 - 3.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	4.42	0.21	4.7	4.4	3.5 - 5.3	19	3.10	0.14	4.4	3.1	2.4 - 3.8
Roche Integra-T. bili Gen.3												
Roche Integra	13	4.08	0.13	3.1	4.1	3.2 - 5.0	13	2.85	0.09	3.1	2.8	2.2 - 3.5
All Chemistry Instruments	15	4.08	0.12	3.0	4.1	3.2 - 4.9	15	2.83	0.09	3.2	2.8	2.2 - 3.4
Siemens Healthcare												
Siemens Dimension	30	4.31	0.20	4.8	4.3	3.4 - 5.2	30	3.02	0.14	4.8	3.0	2.4 - 3.7
All Chemistry Instruments	31	4.30	0.20	4.7	4.3	3.4 - 5.2	32	3.02	0.14	4.6	3.0	2.4 - 3.7
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	27	4.76	0.33	6.9	4.7	3.8 - 5.8	28	3.30	0.25	7.5	3.3	2.6 - 4.0
All Chemistry Instruments	28	4.75	0.33	6.9	4.7	3.8 - 5.8	29	3.30	0.24	7.4	3.2	2.6 - 4.0

Bilirubin, Total (mg/dL)

	Specimen CH-8						Specimen CH-9					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	198	4.27	0.41	9.6	4.2	3.4 - 5.2	198	2.59	0.24	9.4	2.6	2.0 - 3.2
All Alfa Wassermann Reagents	27	5.04	0.27	5.5	5.0	4.0 - 6.1	27	3.07	0.17	5.6	3.0	2.4 - 3.7
All Horiba Pentra Reagents	19	4.22	0.30	7.0	4.2	3.3 - 5.1	19	2.56	0.12	4.8	2.6	2.0 - 3.1
All Roche T. bili Special Reagents	26	3.88	0.14	3.7	3.9	3.1 - 4.7	26	2.35	0.10	4.2	2.3	1.8 - 2.9
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	4.1	3.4 - 5.2	4	-	-	-	2.6	2.0 - 3.2
All Chemistry Instruments	9	-	-	-	4.0	3.1 - 4.8	9	-	-	-	2.5	1.9 - 3.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	5.04	0.28	5.5	5.0	4.0 - 6.1	26	3.07	0.18	5.7	3.0	2.4 - 3.7
Beckman AU												
Beckman AU systems	29	4.20	0.18	4.4	4.2	3.3 - 5.1	30	2.61	0.14	5.4	2.6	2.0 - 3.2
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	4.22	0.30	7.0	4.2	3.3 - 5.1	19	2.56	0.12	4.8	2.6	2.0 - 3.1
Roche Integra-T. bili Gen.3												
Roche Integra	13	3.85	0.11	2.7	3.9	3.0 - 4.7	13	2.35	0.10	4.1	2.3	1.8 - 2.9
All Chemistry Instruments	15	3.84	0.11	2.7	3.8	3.0 - 4.7	15	2.33	0.10	4.2	2.3	1.8 - 2.8
Siemens Healthcare												
Siemens Dimension	30	4.11	0.20	4.9	4.1	3.2 - 5.0	30	2.50	0.13	5.3	2.5	1.9 - 3.0
All Chemistry Instruments	32	4.11	0.19	4.7	4.1	3.2 - 5.0	32	2.50	0.13	5.2	2.5	1.9 - 3.0
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	28	4.52	0.31	6.8	4.5	3.6 - 5.5	28	2.67	0.20	7.4	2.6	2.1 - 3.3
All Chemistry Instruments	29	4.52	0.30	6.7	4.5	3.6 - 5.5	29	2.67	0.19	7.3	2.6	2.1 - 3.3

Bilirubin, Total (mg/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	199	0.94	0.13	14.2	0.9	0.5 - 1.4
All Alfa Wassermann Reagents	27	1.16	0.08	6.8	1.2	0.7 - 1.6
All Horiba Pentra Reagents	20	0.94	0.07	7.2	0.9	0.5 - 1.4
All Roche T. bili Special Reagents	26	0.86	0.06	6.7	0.9	0.4 - 1.3
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	1.1	0.5 - 1.4
All Chemistry Instruments	9	-	-	-	1.0	0.6 - 1.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	26	1.16	0.08	6.9	1.2	0.7 - 1.6
Beckman AU						
Beckman AU systems	30	1.01	0.06	6.4	1.0	0.6 - 1.5
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	20	0.94	0.07	7.2	0.9	0.5 - 1.4
Roche Integra-T. bili Gen.3						
Roche Integra	13	0.85	0.05	6.1	0.9	0.4 - 1.3
All Chemistry Instruments	15	0.85	0.05	6.1	0.8	0.4 - 1.3
Siemens Healthcare						
Siemens Dimension	30	0.92	0.08	8.8	0.9	0.5 - 1.4
All Chemistry Instruments	32	0.92	0.08	8.6	0.9	0.5 - 1.4
VITROS - TBIL						
VITROS 250,350,400 500,700,750,950	27	0.82	0.11	14.0	0.8	0.4 - 1.3
All Chemistry Instruments	28	0.82	0.11	13.7	0.8	0.4 - 1.3

Calcium (mg/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	216	11.95	0.34	2.8	12.0	10.9 - 13.0	216	10.48	0.31	2.9	10.5	9.4 - 11.5
All Arsenazo Methods	99	11.98	0.34	2.8	12.0	10.9 - 13.0	97	10.58	0.29	2.7	10.6	9.5 - 11.6
All CPC Methods	112	11.93	0.35	2.9	12.0	10.9 - 13.0	112	10.41	0.28	2.6	10.4	9.4 - 11.5
Abaxis Piccolo												
Abaxis Piccolo - waived	19	12.01	0.20	1.6	12.0	11.0 - 13.1	19	10.56	0.19	1.8	10.6	9.5 - 11.6
All Chemistry Instruments	24	12.00	0.18	1.5	12.0	11.0 - 13.0	24	10.57	0.17	1.6	10.6	9.5 - 11.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	11.87	0.43	3.6	11.9	10.8 - 12.9	28	10.65	0.30	2.8	10.7	9.6 - 11.7
Beckman AU												
Beckman AU systems	32	11.70	0.33	2.8	11.8	10.7 - 12.7	31	10.27	0.19	1.9	10.3	9.2 - 11.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	12.08	0.28	2.4	12.2	11.0 - 13.1	17	10.49	0.25	2.4	10.5	9.4 - 11.5
Roche Integra												
Roche Integra	19	12.04	0.35	2.9	12.0	11.0 - 13.1	19	10.50	0.31	2.9	10.6	9.5 - 11.5
Siemens Healthcare												
Siemens Dimension	29	11.86	0.33	2.8	11.9	10.8 - 12.9	29	10.35	0.26	2.5	10.3	9.3 - 11.4
All Chemistry Instruments	33	11.84	0.31	2.6	11.8	10.8 - 12.9	32	10.31	0.22	2.1	10.3	9.3 - 11.4
VITROS												
VITROS 250,350,400 500,700,750,950	26	12.13	0.20	1.6	12.1	11.1 - 13.2	27	10.60	0.16	1.5	10.6	9.5 - 11.6
All Chemistry Instruments	28	12.13	0.19	1.6	12.1	11.1 - 13.2	29	10.59	0.15	1.5	10.6	9.5 - 11.6

Calcium (mg/dL)

	Specimen CH-8						Specimen CH-9					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	200	11.71	0.33	2.8	11.7	10.7 - 12.8	201	9.86	0.31	3.1	9.9	8.8 - 10.9
All Arsenazo Methods	82	11.80	0.32	2.7	11.8	10.8 - 12.9	84	9.95	0.35	3.5	10.0	8.9 - 11.0
All CPC Methods	113	11.67	0.33	2.8	11.7	10.6 - 12.7	113	9.78	0.26	2.7	9.8	8.7 - 10.8
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	11.7	10.8 - 12.9	4	-	-	-	10.2	8.9 - 11.0
All Chemistry Instruments	8	-	-	-	11.8	10.7 - 12.8	8	-	-	-	10.0	9.0 - 11.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	28	11.85	0.27	2.3	11.8	10.8 - 12.9	28	10.11	0.25	2.5	10.1	9.1 - 11.2
Beckman AU												
Beckman AU systems	32	11.47	0.28	2.5	11.6	10.4 - 12.5	32	9.68	0.22	2.3	9.7	8.6 - 10.7
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	11.76	0.30	2.6	11.8	10.7 - 12.8	17	9.84	0.25	2.5	9.9	8.8 - 10.9
Roche Integra												
Roche Integra	19	11.78	0.33	2.8	11.8	10.7 - 12.8	19	9.89	0.25	2.6	9.9	8.8 - 10.9
Siemens Healthcare												
Siemens Dimension	29	11.64	0.29	2.5	11.7	10.6 - 12.7	29	9.70	0.24	2.5	9.7	8.7 - 10.8
All Chemistry Instruments	33	11.62	0.28	2.4	11.6	10.6 - 12.7	33	9.68	0.24	2.5	9.7	8.6 - 10.7
VITROS												
VITROS 250,350,400 500,700,750,950	27	11.87	0.18	1.5	11.9	10.8 - 12.9	27	9.96	0.21	2.1	10.0	8.9 - 11.0
All Chemistry Instruments	29	11.86	0.18	1.5	11.8	10.8 - 12.9	29	9.96	0.20	2.0	9.9	8.9 - 11.0

Calcium (mg/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	200	7.93	0.29	3.6	7.9	6.9 - 9.0
All Arsenazo Methods	84	8.01	0.37	4.7	8.0	7.0 - 9.1
All CPC Methods	112	7.87	0.21	2.7	7.9	6.8 - 8.9
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	8.3	7.0 - 9.1
All Chemistry Instruments	8	-	-	-	8.2	7.1 - 9.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	28	8.29	0.29	3.5	8.3	7.2 - 9.3
Beckman AU						
Beckman AU systems	31	7.82	0.18	2.3	7.8	6.8 - 8.9
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	7.85	0.20	2.6	7.9	6.8 - 8.9
Roche Integra						
Roche Integra	19	7.92	0.20	2.5	8.0	6.9 - 9.0
Siemens Healthcare						
Siemens Dimension	29	7.84	0.21	2.7	7.8	6.8 - 8.9
All Chemistry Instruments	33	7.82	0.21	2.7	7.8	6.8 - 8.9
VITROS						
VITROS 250,350,400 500,700,750,950	26	7.90	0.17	2.2	7.9	6.8 - 8.9
All Chemistry Instruments	28	7.89	0.17	2.1	7.9	6.8 - 8.9

Creatinine (mg/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	217	3.99	0.19	4.7	4.0	3.3 - 4.6	216	2.87	0.11	4.0	2.9	2.4 - 3.3
All Alfa Wassermann Reagents	27	3.82	0.14	3.7	3.8	3.2 - 4.4	27	2.83	0.10	3.4	2.8	2.4 - 3.3
All Roche Reagents	30	3.88	0.17	4.4	3.8	3.2 - 4.5	30	2.83	0.10	3.7	2.8	2.4 - 3.3
All VITROS Reagents	29	4.02	0.10	2.5	4.0	3.4 - 4.7	30	2.94	0.09	3.2	2.9	2.4 - 3.4
Abaxis Piccolo												
Abaxis Piccolo - waived	19	4.12	0.22	5.4	4.1	3.4 - 4.8	19	2.88	0.18	6.1	2.8	2.4 - 3.4
All Chemistry Instruments	24	4.11	0.21	5.1	4.2	3.4 - 4.8	24	2.87	0.16	5.6	2.8	2.4 - 3.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	3.81	0.14	3.7	3.8	3.2 - 4.4	26	2.83	0.10	3.4	2.8	2.4 - 3.3
Beckman AU												
Beckman AU systems	32	3.99	0.10	2.6	4.0	3.3 - 4.6	30	2.85	0.07	2.4	2.9	2.4 - 3.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	3.85	0.14	3.6	3.9	3.2 - 4.5	19	2.75	0.10	3.7	2.8	2.3 - 3.2
Roche Integra												
Roche Integra	19	3.82	0.13	3.4	3.8	3.2 - 4.4	19	2.80	0.09	3.4	2.8	2.3 - 3.3
Siemens Healthcare												
Siemens Dimension	29	4.13	0.09	2.3	4.1	3.5 - 4.8	29	2.93	0.06	2.1	2.9	2.4 - 3.4
All Chemistry Instruments	33	4.14	0.10	2.4	4.1	3.5 - 4.8	33	2.93	0.06	2.2	2.9	2.4 - 3.4
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	19	4.01	0.11	2.7	4.0	3.4 - 4.7	20	2.95	0.11	3.6	3.0	2.5 - 3.4
All Chemistry Instruments	21	4.00	0.10	2.6	4.0	3.4 - 4.7	22	2.95	0.10	3.4	3.0	2.5 - 3.4

Creatinine (mg/dL)

	Specimen CH-8						Specimen CH-9					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	201	3.77	0.16	4.3	3.8	3.2 - 4.4	201	2.41	0.10	4.2	2.4	2.0 - 2.8
All Alfa Wassermann Reagents	28	3.64	0.18	5.0	3.7	3.0 - 4.2	28	2.43	0.15	6.1	2.4	2.0 - 2.8
All Roche Reagents	30	3.68	0.17	4.6	3.7	3.1 - 4.3	30	2.39	0.10	4.1	2.4	2.0 - 2.8
All VITROS Reagents	30	3.84	0.09	2.3	3.8	3.2 - 4.5	30	2.47	0.07	3.0	2.5	2.0 - 2.9
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	4.0	3.2 - 4.4	4	-	-	-	2.5	2.0 - 2.8
All Chemistry Instruments	8	-	-	-	3.8	3.2 - 4.4	8	-	-	-	2.5	2.0 - 2.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	27	3.63	0.18	4.9	3.7	3.0 - 4.2	27	2.42	0.15	6.2	2.4	2.0 - 2.8
Beckman AU												
Beckman AU systems	32	3.76	0.09	2.4	3.8	3.1 - 4.4	32	2.38	0.07	3.0	2.4	2.0 - 2.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	3.66	0.12	3.3	3.7	3.1 - 4.3	19	2.32	0.10	4.1	2.3	1.9 - 2.7
Roche Integra												
Roche Integra	19	3.62	0.15	4.0	3.6	3.0 - 4.2	19	2.37	0.09	4.0	2.4	2.0 - 2.8
Siemens Healthcare												
Siemens Dimension	28	3.93	0.09	2.3	3.9	3.3 - 4.6	29	2.42	0.06	2.3	2.4	2.0 - 2.8
All Chemistry Instruments	32	3.93	0.09	2.4	3.9	3.3 - 4.6	33	2.42	0.06	2.5	2.4	2.0 - 2.8
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	20	3.84	0.10	2.6	3.8	3.2 - 4.5	20	2.46	0.08	3.3	2.5	2.0 - 2.9
All Chemistry Instruments	22	3.83	0.10	2.6	3.8	3.2 - 4.5	22	2.46	0.08	3.2	2.5	2.0 - 2.9

Creatinine (mg/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	201	1.01	0.10	9.7	1.0	0.7 - 1.4
All Alfa Wassermann Reagents	28	1.11	0.07	6.2	1.1	0.8 - 1.5
All Roche Reagents	30	0.98	0.07	7.1	1.0	0.6 - 1.3
All VITROS Reagents	29	0.98	0.04	4.5	1.0	0.6 - 1.3
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	1.2	0.7 - 1.4
All Chemistry Instruments	8	-	-	-	1.1	0.8 - 1.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	27	1.11	0.07	6.3	1.1	0.8 - 1.5
Beckman AU						
Beckman AU systems	32	0.96	0.06	5.9	1.0	0.6 - 1.3
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	19	0.90	0.05	5.2	0.9	0.6 - 1.2
Roche Integra						
Roche Integra	19	0.97	0.06	5.8	1.0	0.6 - 1.3
Siemens Healthcare						
Siemens Dimension	29	1.06	0.06	5.3	1.1	0.7 - 1.4
All Chemistry Instruments	33	1.05	0.07	6.8	1.1	0.7 - 1.4
VITROS - CREA						
VITROS 250,350,400 500,700,750,950	19	0.98	0.04	4.3	1.0	0.6 - 1.3
All Chemistry Instruments	21	0.98	0.04	4.5	1.0	0.6 - 1.3

Glucose (mg/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	229	209.9	7.7	3.6	210	188 - 231	231	157.8	6.6	4.2	158	142 - 174
All Alfa Wassermann Reagents	30	216.4	6.2	2.9	217	194 - 239	29	165.0	3.9	2.4	165	148 - 182
All Horiba Pentra Reagents	19	206.1	6.9	3.3	207	185 - 227	19	154.7	5.7	3.7	153	139 - 171
All Roche Reagents	30	213.3	6.2	2.9	213	191 - 235	30	160.6	4.3	2.7	161	144 - 177
Abaxis Piccolo												
Abaxis Piccolo - waived	19	203.6	2.1	1.0	203	183 - 224	19	154.7	1.6	1.0	154	139 - 171
All Chemistry Instruments	24	203.6	2.0	1.0	203	183 - 224	24	154.6	1.6	1.0	154	139 - 171
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	216.2	6.2	2.9	217	194 - 238	28	164.9	3.9	2.4	165	148 - 182
Beckman AU												
Beckman AU systems	31	213.7	4.5	2.1	215	192 - 236	31	161.0	3.1	2.0	162	144 - 178
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	205.7	6.9	3.3	207	185 - 227	18	154.5	5.8	3.7	153	139 - 170
All Chemistry Instruments	19	206.1	6.9	3.3	207	185 - 227	19	154.7	5.7	3.7	153	139 - 171
Roche Integra												
Roche Integra	19	213.3	6.9	3.3	214	191 - 235	19	161.1	4.3	2.6	162	144 - 178
Siemens Healthcare												
Siemens Dimension	30	210.0	4.3	2.0	210	189 - 232	30	158.4	3.0	1.9	158	142 - 175
All Chemistry Instruments	33	209.8	4.5	2.1	210	188 - 231	33	158.2	3.1	2.0	158	142 - 174
VITROS												
VITROS 250,350,400 500,700,750,950	26	203.8	4.0	2.0	204	183 - 225	28	149.5	3.1	2.1	150	134 - 165
All Chemistry Instruments	28	203.7	4.3	2.1	204	183 - 225	30	149.4	3.1	2.1	150	134 - 165

Glucose (mg/dL)

	Specimen CH-8						Specimen CH-9					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	206	201.3	7.2	3.6	202	181 - 222	205	137.6	5.9	4.3	138	123 - 152
All Alfa Wassermann Reagents	30	208.3	5.4	2.6	209	187 - 230	30	143.5	4.2	2.9	145	129 - 158
All Horiba Pentra Reagents	19	196.4	6.3	3.2	197	176 - 217	19	135.1	4.4	3.3	135	121 - 149
All Roche Reagents	30	203.9	5.4	2.7	203	183 - 225	30	139.7	4.0	2.8	140	125 - 154
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	194	181 - 222	4	-	-	-	136	123 - 152
All Chemistry Instruments	8	-	-	-	194	175 - 215	8	-	-	-	135	121 - 149
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	208.1	5.4	2.6	209	187 - 229	29	143.3	4.1	2.9	144	128 - 158
Beckman AU												
Beckman AU systems	32	203.2	4.9	2.4	204	182 - 224	31	139.6	3.1	2.2	140	125 - 154
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	196.3	6.5	3.3	197	176 - 216	18	135.1	4.5	3.4	135	121 - 149
All Chemistry Instruments	19	196.4	6.3	3.2	197	176 - 217	19	135.1	4.4	3.3	135	121 - 149
Roche Integra												
Roche Integra	19	204.4	6.0	2.9	203	183 - 225	19	140.5	4.2	3.0	140	126 - 155
Siemens Healthcare												
Siemens Dimension	30	200.9	3.4	1.7	201	180 - 222	30	137.2	2.3	1.7	137	123 - 151
All Chemistry Instruments	33	200.8	3.7	1.9	201	180 - 221	32	137.3	2.2	1.6	137	123 - 152
VITROS												
VITROS 250,350,400 500,700,750,950	28	193.8	4.5	2.3	194	174 - 214	28	129.4	3.5	2.7	130	116 - 143
All Chemistry Instruments	30	193.5	4.6	2.4	194	174 - 213	30	129.2	3.5	2.7	129	116 - 143

Glucose (mg/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	205	74.3	3.9	5.2	75	66 - 82
All Alfa Wassermann Reagents	30	79.1	2.0	2.5	80	71 - 88
All Horiba Pentra Reagents	19	72.1	2.2	3.1	72	64 - 80
All Roche Reagents	30	75.1	2.2	2.9	75	67 - 83
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	76	66 - 82
All Chemistry Instruments	8	-	-	-	75	67 - 84
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	29	79.0	2.0	2.5	80	71 - 87
Beckman AU						
Beckman AU systems	32	75.1	1.9	2.6	75	67 - 83
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	72.0	2.3	3.2	72	64 - 80
All Chemistry Instruments	19	72.1	2.2	3.1	72	64 - 80
Roche Integra						
Roche Integra	19	75.7	2.2	2.9	76	68 - 84
Siemens Healthcare						
Siemens Dimension	30	74.1	1.4	1.9	74	66 - 82
All Chemistry Instruments	33	74.0	1.6	2.1	74	66 - 82
VITROS						
VITROS 250,350,400 500,700,750,950	27	68.1	2.4	3.5	69	61 - 75
All Chemistry Instruments	29	67.9	2.4	3.6	69	61 - 75

Iron (µg/dL)

Reagent/Instrument	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	81	163.4	12.2	7.5	161	130 - 197	81	118.3	7.5	6.4	117	94 - 142
All Roche Reagents	16	162.7	4.9	3.0	164	130 - 196	16	119.4	2.7	2.2	119	95 - 144
Beckman AU												
Beckman AU systems	17	174.7	7.0	4.0	176	139 - 210	17	126.1	5.6	4.4	128	100 - 152
Siemens Healthcare												
Siemens Dimension	17	155.8	1.5	1.0	156	124 - 187	16	113.6	1.9	1.6	113	90 - 137
All Chemistry Instruments	19	155.8	1.4	0.9	156	124 - 187	17	113.2	1.2	1.1	113	90 - 136

Reagent/Instrument	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	81	155.0	11.2	7.3	153	123 - 186	82	100.8	5.8	5.8	99	80 - 121
All Roche Reagents	16	155.1	4.7	3.0	156	124 - 187	16	102.5	3.6	3.5	102	82 - 123
Beckman AU												
Beckman AU systems	17	165.7	6.2	3.7	167	132 - 199	17	106.3	4.5	4.2	107	85 - 128
Siemens Healthcare												
Siemens Dimension	16	148.1	1.5	1.0	148	118 - 178	17	96.9	1.2	1.3	97	77 - 117
All Chemistry Instruments	18	148.1	1.4	1.0	148	118 - 178	19	96.8	1.2	1.2	97	77 - 117

Reagent/Instrument	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	78	46.6	3.3	7.1	47	37 - 56
All Roche Reagents	16	48.4	2.0	4.2	49	38 - 59
Beckman AU						
Beckman AU systems	17	49.8	4.6	9.3	50	39 - 60
Siemens Healthcare						
Siemens Dimension	16	45.6	1.4	3.1	46	36 - 55
All Chemistry Instruments	18	45.6	1.3	2.9	46	36 - 55

Lactate (Lactic Acid) (mmol/L)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	6	5.37	0.14	2.5	5.4	4.9 - 5.8	6	3.60	0.11	3.0	3.6	3.2 - 4.0
	Specimen CH-8						**Specimen CH-9**					
All Method	6	4.98	0.17	3.5	5.0	4.4 - 5.6	6	2.95	0.14	4.7	2.9	2.5 - 3.4
	Specimen CH-10											
All Method	6	0.90	0.30	33.0	0.8	0.0 - 1.8						

Magnesium (mg/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	105	3.86	0.23	5.8	3.8	2.8 - 4.9	104	3.02	0.18	6.0	3.0	2.2 - 3.8
All Horiba Pentra Reagents	15	3.81	0.28	7.4	3.7	2.8 - 4.8	14	2.93	0.13	4.5	2.9	2.1 - 3.7
All Roche Reagents	24	3.79	0.13	3.5	3.8	2.8 - 4.8	23	2.96	0.11	3.6	3.0	2.2 - 3.8
Beckman AU												
Beckman AU systems	17	3.84	0.13	3.4	3.8	2.8 - 4.8	17	2.97	0.08	2.6	3.0	2.2 - 3.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	3.81	0.28	7.4	3.7	2.8 - 4.8	14	2.93	0.13	4.5	2.9	2.1 - 3.7
Roche Integra												
Roche Integra	14	3.72	0.13	3.4	3.7	2.7 - 4.7	14	2.88	0.17	5.8	2.9	2.1 - 3.6
Siemens Healthcare												
Siemens Dimension	16	3.90	0.10	2.5	3.9	2.9 - 4.9	17	3.07	0.14	4.7	3.1	2.3 - 3.9
All Chemistry Instruments	17	3.92	0.12	3.0	3.9	2.9 - 4.9	18	3.08	0.14	4.7	3.1	2.3 - 3.9
VITROS												
VITROS 250,350,400 500,700,750,950	13	4.24	0.11	2.6	4.3	3.1 - 5.3	13	3.31	0.13	4.0	3.3	2.4 - 4.2
All Chemistry Instruments	14	4.25	0.12	2.7	4.3	3.1 - 5.4	14	3.31	0.13	3.8	3.3	2.4 - 4.2

Magnesium (mg/dL)

Reagent/Instrument	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	104	3.70	0.20	5.5	3.7	2.7 - 4.7	106	2.68	0.17	6.4	2.7	2.0 - 3.4
All Horiba Pentra Reagents	15	3.59	0.30	8.5	3.6	2.6 - 4.5	15	2.60	0.24	9.2	2.6	1.9 - 3.3
All Roche Reagents	24	3.64	0.12	3.4	3.7	2.7 - 4.6	24	2.65	0.09	3.3	2.7	1.9 - 3.4
Beckman AU												
Beckman AU systems	17	3.67	0.11	3.0	3.7	2.7 - 4.6	17	2.65	0.09	3.6	2.6	1.9 - 3.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	3.59	0.30	8.5	3.6	2.6 - 4.5	15	2.60	0.24	9.2	2.6	1.9 - 3.3
Roche Integra												
Roche Integra	14	3.59	0.11	3.2	3.6	2.6 - 4.5	14	2.62	0.09	3.4	2.6	1.9 - 3.3
Siemens Healthcare												
Siemens Dimension	17	3.78	0.13	3.4	3.8	2.8 - 4.8	17	2.68	0.14	5.2	2.7	2.0 - 3.4
All Chemistry Instruments	18	3.79	0.13	3.6	3.8	2.8 - 4.8	18	2.69	0.15	5.4	2.7	2.0 - 3.4
VITROS												
VITROS 250,350,400 500,700,750,950	13	4.05	0.15	3.6	4.0	3.0 - 5.1	13	2.92	0.11	3.7	2.9	2.1 - 3.7
All Chemistry Instruments	14	4.04	0.14	3.5	4.0	3.0 - 5.1	14	2.91	0.10	3.5	2.9	2.1 - 3.7

Reagent/Instrument	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	105	1.63	0.12	7.6	1.6	1.2 - 2.1
All Horiba Pentra Reagents	15	1.64	0.19	11.7	1.6	1.2 - 2.1
All Roche Reagents	24	1.63	0.06	3.7	1.6	1.2 - 2.1
Beckman AU						
Beckman AU systems	17	1.63	0.07	4.2	1.6	1.2 - 2.1
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	15	1.64	0.19	11.7	1.6	1.2 - 2.1
Roche Integra						
Roche Integra	14	1.61	0.07	4.1	1.6	1.2 - 2.1
Siemens Healthcare						
Siemens Dimension	17	1.59	0.08	4.9	1.6	1.1 - 2.0
All Chemistry Instruments	18	1.60	0.09	5.7	1.6	1.2 - 2.0
VITROS						
VITROS 250,350,400 500,700,750,950	13	1.76	0.09	4.9	1.8	1.3 - 2.3
All Chemistry Instruments	14	1.76	0.08	4.8	1.8	1.3 - 2.3

Phosphorus (mg/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	81	4.69	0.25	5.3	4.7	4.1 - 5.2	81	3.65	0.20	5.4	3.6	3.2 - 4.1
All Alfa Wassermann Reagents	6	4.58	0.16	3.5	4.7	4.0 - 5.1	6	3.62	0.13	3.7	3.6	3.2 - 4.1
All Roche Reagents	19	4.56	0.15	3.3	4.6	4.0 - 5.1	19	3.56	0.11	3.1	3.6	3.1 - 4.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	6	4.58	0.16	3.5	4.7	4.0 - 5.1	6	3.62	0.13	3.7	3.6	3.2 - 4.1
Beckman AU												
Beckman AU systems	16	4.58	0.13	2.8	4.6	4.0 - 5.1	16	3.53	0.10	2.8	3.5	3.1 - 4.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	5.01	0.21	4.2	5.0	4.4 - 5.6	7	3.93	0.15	3.8	3.9	3.5 - 4.4
All Chemistry Instruments	8	4.99	0.21	4.2	5.0	4.4 - 5.6	8	3.93	0.14	3.5	3.9	3.5 - 4.4
Roche cobas c 501												
Roche cobas 6000 / c 501	6	4.68	0.12	2.5	4.7	4.1 - 5.2	6	3.67	0.10	2.8	3.7	3.2 - 4.1
Roche Integra												
Roche Integra	12	4.50	0.13	3.0	4.5	4.0 - 5.0	12	3.52	0.08	2.4	3.5	3.1 - 3.9
Siemens Healthcare												
Siemens Dimension	13	4.82	0.16	3.4	4.8	4.3 - 5.4	13	3.75	0.17	4.4	3.8	3.3 - 4.2
VITROS												
VITROS 250,350,400 500,700,750,950	9	4.86	0.14	2.9	4.9	4.3 - 5.4	9	3.78	0.13	3.4	3.7	3.3 - 4.2
All Chemistry Instruments	10	4.83	0.16	3.2	4.9	4.3 - 5.4	10	3.77	0.13	3.3	3.7	3.3 - 4.2

	Specimen CH-8						Specimen CH-9					
All Method	81	4.48	0.23	5.1	4.5	4.0 - 5.0	80	3.22	0.17	5.3	3.2	2.8 - 3.6
All Alfa Wassermann Reagents	6	4.35	0.24	5.6	4.4	3.8 - 4.9	6	3.18	0.16	5.0	3.2	2.8 - 3.6
All Roche Reagents	19	4.39	0.16	3.7	4.4	3.9 - 4.9	19	3.12	0.12	3.9	3.1	2.7 - 3.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	6	4.35	0.24	5.6	4.4	3.8 - 4.9	6	3.18	0.16	5.0	3.2	2.8 - 3.6
Beckman AU												
Beckman AU systems	16	4.39	0.13	2.9	4.4	3.9 - 4.9	16	3.14	0.08	2.6	3.2	2.8 - 3.5
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	4.77	0.20	4.1	4.8	4.2 - 5.3	7	3.46	0.16	4.7	3.4	3.0 - 3.9
All Chemistry Instruments	8	4.75	0.19	4.1	4.8	4.2 - 5.3	8	3.45	0.15	4.4	3.4	3.0 - 3.9
Roche cobas c 501												
Roche cobas 6000 / c 501	6	4.53	0.15	3.3	4.6	4.0 - 5.1	6	3.22	0.12	3.6	3.2	2.8 - 3.6
Roche Integra												
Roche Integra	12	4.32	0.13	2.9	4.4	3.8 - 4.8	12	3.07	0.10	3.2	3.1	2.7 - 3.4
Siemens Healthcare												
Siemens Dimension	13	4.59	0.15	3.3	4.6	4.1 - 5.1	12	3.28	0.06	1.8	3.3	2.9 - 3.7
VITROS												
VITROS 250,350,400 500,700,750,950	9	4.63	0.13	2.9	4.6	4.1 - 5.2	9	3.41	0.14	4.0	3.4	3.0 - 3.8
All Chemistry Instruments	10	4.61	0.14	3.1	4.6	4.1 - 5.2	10	3.40	0.13	3.9	3.4	3.0 - 3.8

Phosphorus (mg/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	78	1.96	0.14	6.9	1.9	1.6 - 2.3
All Alfa Wassermann Reagents	6	2.10	0.28	13.1	2.0	1.8 - 2.4
All Roche Reagents	19	1.86	0.08	4.5	1.9	1.5 - 2.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	6	2.10	0.28	13.1	2.0	1.8 - 2.4
Beckman AU						
Beckman AU systems	16	1.87	0.07	3.8	1.9	1.5 - 2.2
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	7	2.07	0.11	5.4	2.1	1.7 - 2.4
All Chemistry Instruments	8	2.06	0.11	5.1	2.1	1.7 - 2.4
Roche cobas c 501						
Roche cobas 6000 / c 501	6	1.90	0.06	3.3	1.9	1.6 - 2.2
Roche Integra						
Roche Integra	12	1.85	0.09	4.9	1.9	1.5 - 2.2
Siemens Healthcare						
Siemens Dimension	13	2.02	0.13	6.4	2.0	1.7 - 2.4
VITROS						
VITROS 250,350,400 500,700,750,950	9	2.17	0.10	4.6	2.2	1.8 - 2.5
All Chemistry Instruments	10	2.17	0.09	4.4	2.2	1.8 - 2.5

Protein, Total (g/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	211	6.87	0.24	3.5	6.9	6.1 - 7.6	211	5.48	0.18	3.3	5.5	4.9 - 6.1
All Alfa Wassermann Reagents	26	6.99	0.20	2.8	7.1	6.2 - 7.7	26	5.60	0.14	2.5	5.6	5.0 - 6.2
All Horiba Pentra Reagents	19	6.84	0.24	3.6	6.8	6.1 - 7.6	19	5.46	0.18	3.3	5.4	4.9 - 6.1
All Roche Reagents	30	6.81	0.27	4.0	6.8	6.1 - 7.5	30	5.40	0.20	3.8	5.4	4.8 - 6.0
Abaxis Piccolo												
Abaxis Piccolo - waived	18	6.89	0.11	1.6	6.9	6.2 - 7.6	18	5.51	0.07	1.2	5.5	4.9 - 6.1
All Chemistry Instruments	24	6.90	0.12	1.7	6.9	6.2 - 7.6	24	5.50	0.06	1.1	5.5	4.9 - 6.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	6.98	0.20	2.9	7.0	6.2 - 7.7	25	5.59	0.14	2.5	5.6	5.0 - 6.2
Beckman AU												
Beckman AU systems	31	6.70	0.14	2.1	6.7	6.0 - 7.4	31	5.32	0.09	1.8	5.3	4.7 - 5.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	6.84	0.24	3.6	6.8	6.1 - 7.6	19	5.46	0.18	3.3	5.4	4.9 - 6.1
Roche Integra												
Roche Integra	19	6.67	0.21	3.2	6.7	6.0 - 7.4	19	5.30	0.15	2.9	5.3	4.7 - 5.9
Siemens Healthcare												
Siemens Dimension	29	7.11	0.13	1.8	7.1	6.3 - 7.9	29	5.65	0.10	1.8	5.6	5.0 - 6.3
All Chemistry Instruments	31	7.11	0.12	1.7	7.1	6.3 - 7.9	31	5.65	0.10	1.8	5.6	5.0 - 6.3
VITROS												
VITROS 250,350,400 500,700,750,950	27	6.70	0.21	3.1	6.7	6.0 - 7.4	27	5.43	0.17	3.0	5.4	4.8 - 6.0
All Chemistry Instruments	29	6.70	0.20	3.0	6.7	6.0 - 7.4	29	5.42	0.16	3.0	5.4	4.8 - 6.0

Protein, Total (g/dL)

	Specimen CH-8						Specimen CH-9					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	197	6.61	0.23	3.4	6.6	5.9 - 7.3	195	4.93	0.17	3.5	5.0	4.4 - 5.5
All Alfa Wassermann Reagents	26	6.75	0.18	2.6	6.8	6.0 - 7.5	26	5.03	0.16	3.2	5.1	4.5 - 5.6
All Horiba Pentra Reagents	19	6.61	0.22	3.3	6.5	5.9 - 7.3	18	4.90	0.16	3.2	4.9	4.4 - 5.4
All Roche Reagents	30	6.54	0.25	3.8	6.6	5.8 - 7.2	30	4.88	0.19	4.0	4.9	4.3 - 5.4
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	6.7	5.9 - 7.3	4	-	-	-	5.0	4.4 - 5.5
All Chemistry Instruments	9	-	-	-	6.6	5.9 - 7.3	9	-	-	-	4.9	4.4 - 5.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	6.74	0.17	2.6	6.8	6.0 - 7.5	25	5.03	0.16	3.2	5.0	4.5 - 5.6
Beckman AU												
Beckman AU systems	31	6.44	0.14	2.1	6.4	5.7 - 7.1	31	4.78	0.10	2.0	4.8	4.2 - 5.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	6.61	0.22	3.3	6.5	5.9 - 7.3	18	4.90	0.16	3.2	4.9	4.4 - 5.4
Roche Integra												
Roche Integra	19	6.41	0.19	2.9	6.5	5.7 - 7.1	19	4.78	0.16	3.3	4.8	4.3 - 5.3
Siemens Healthcare												
Siemens Dimension	29	6.84	0.12	1.8	6.8	6.1 - 7.6	29	5.08	0.09	1.7	5.1	4.5 - 5.6
All Chemistry Instruments	31	6.84	0.12	1.8	6.8	6.1 - 7.6	31	5.08	0.09	1.7	5.1	4.5 - 5.6
VITROS												
VITROS 250,350,400 500,700,750,950	28	6.48	0.20	3.1	6.5	5.8 - 7.2	28	4.91	0.16	3.3	4.9	4.4 - 5.5
All Chemistry Instruments	30	6.48	0.19	3.0	6.5	5.8 - 7.2	30	4.91	0.16	3.3	4.9	4.4 - 5.5

Protein, Total (g/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	195	3.19	0.13	4.1	3.2	2.8 - 3.6
All Alfa Wassermann Reagents	26	3.22	0.16	4.9	3.2	2.8 - 3.6
All Horiba Pentra Reagents	19	3.12	0.09	2.7	3.1	2.8 - 3.5
All Roche Reagents	30	3.17	0.13	4.0	3.2	2.8 - 3.5
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	3.3	2.8 - 3.6
All Chemistry Instruments	9	-	-	-	3.3	2.9 - 3.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	25	3.21	0.16	4.9	3.2	2.8 - 3.6
Beckman AU						
Beckman AU systems	31	3.08	0.08	2.7	3.1	2.7 - 3.4
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	19	3.12	0.09	2.7	3.1	2.8 - 3.5
Roche Integra						
Roche Integra	19	3.11	0.10	3.1	3.1	2.7 - 3.5
Siemens Healthcare						
Siemens Dimension	29	3.30	0.09	2.6	3.3	2.9 - 3.7
All Chemistry Instruments	31	3.30	0.08	2.5	3.3	2.9 - 3.7
VITROS						
VITROS 250,350,400 500,700,750,950	27	3.25	0.11	3.5	3.2	2.9 - 3.6
All Chemistry Instruments	29	3.24	0.11	3.5	3.2	2.9 - 3.6

Urea Nitrogen (mg/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	217	33.9	2.6	7.6	35	30 - 37	218	24.6	2.0	8.1	25	22 - 27
All Alfa Wassermann Reagents	28	33.8	1.4	4.0	34	30 - 37	29	24.9	1.3	5.1	25	22 - 28
All Horiba Pentra Reagents	19	32.8	1.5	4.6	33	29 - 36	19	23.8	1.1	4.5	24	21 - 26
All Roche Reagents	30	35.3	1.2	3.5	35	32 - 39	29	25.5	0.9	3.4	26	23 - 28
Abaxis Piccolo												
Abaxis Piccolo - waived	19	32.4	0.8	2.4	33	29 - 36	19	23.1	0.7	3.1	23	20 - 26
All Chemistry Instruments	24	32.5	0.7	2.2	33	29 - 36	24	23.2	0.7	3.0	23	21 - 26
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	33.5	1.2	3.6	34	30 - 37	25	24.6	1.0	3.9	25	22 - 27
Beckman AU												
Beckman AU systems	31	35.7	1.2	3.3	36	32 - 39	30	26.0	0.8	3.0	26	23 - 29
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	32.8	1.5	4.6	33	29 - 36	19	23.8	1.1	4.5	24	21 - 26
Roche Integra												
Roche Integra	19	35.5	1.1	3.0	35	32 - 39	19	25.5	1.0	3.8	26	23 - 28
Siemens Healthcare												
Siemens Dimension	30	36.0	1.2	3.3	36	32 - 40	30	26.1	0.9	3.4	26	23 - 29
All Chemistry Instruments	33	36.0	1.2	3.3	36	32 - 40	33	26.2	0.9	3.5	26	23 - 29
VITROS												
VITROS 250,350,400 500,700,750,950	26	29.0	0.8	2.7	29	26 - 32	27	20.9	0.6	3.1	21	18 - 23
All Chemistry Instruments	28	29.0	0.8	2.7	29	26 - 32	29	20.8	0.7	3.2	21	18 - 23

Urea Nitrogen (mg/dL)

	Specimen CH-8						Specimen CH-9					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	202	32.2	2.5	7.6	33	29 - 36	201	20.9	1.6	7.8	21	18 - 23
All Alfa Wassermann Reagents	29	32.3	1.4	4.4	32	29 - 36	29	21.1	1.0	5.0	21	19 - 24
All Horiba Pentra Reagents	19	31.4	1.7	5.3	32	28 - 35	19	20.3	1.0	4.9	20	18 - 23
All Roche Reagents	29	33.5	0.9	2.6	33	30 - 37	29	21.6	0.6	2.9	22	19 - 24
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	30	29 - 36	4	-	-	-	20	18 - 23
All Chemistry Instruments	8	-	-	-	31	27 - 34	8	-	-	-	20	17 - 22
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	32.0	1.2	3.6	32	29 - 35	25	20.8	0.7	3.6	21	18 - 23
Beckman AU												
Beckman AU systems	31	33.9	1.0	2.8	34	30 - 37	31	22.1	0.6	2.8	22	20 - 25
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	31.4	1.7	5.3	32	28 - 35	19	20.3	1.0	4.9	20	18 - 23
Roche Integra												
Roche Integra	19	33.4	0.8	2.5	33	30 - 37	19	21.5	0.6	2.8	22	19 - 24
Siemens Healthcare												
Siemens Dimension	30	34.0	1.0	3.0	34	30 - 38	30	22.2	0.8	3.6	22	20 - 25
All Chemistry Instruments	33	34.0	1.0	2.9	34	30 - 38	33	22.2	0.8	3.6	22	20 - 25
VITROS												
VITROS 250,350,400 500,700,750,950	27	27.4	0.6	2.3	27	24 - 30	28	18.1	0.7	3.7	18	16 - 21
All Chemistry Instruments	29	27.4	0.7	2.5	27	24 - 30	30	18.0	0.7	3.9	18	16 - 20

Urea Nitrogen (mg/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	200	9.7	0.9	9.1	10	7 - 12
All Alfa Wassermann Reagents	29	9.8	0.7	7.2	10	7 - 12
All Horiba Pentra Reagents	19	9.4	0.7	7.4	9	7 - 12
All Roche Reagents	28	10.1	0.3	2.6	10	8 - 13
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	9	7 - 12
All Chemistry Instruments	8	-	-	-	9	6 - 11
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	25	9.7	0.6	6.5	10	7 - 12
Beckman AU						
Beckman AU systems	31	10.2	0.4	3.9	10	8 - 13
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	19	9.4	0.7	7.4	9	7 - 12
Roche Integra						
Roche Integra	17	10.0	0.1	0.0	10	8 - 12
Siemens Healthcare						
Siemens Dimension	30	10.2	0.6	5.8	10	8 - 13
All Chemistry Instruments	33	10.2	0.6	5.6	10	8 - 13
VITROS						
VITROS 250,350,400 500,700,750,950	27	8.4	0.6	6.7	8	6 - 11
All Chemistry Instruments	29	8.3	0.6	6.6	8	6 - 11

Uric Acid (mg/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	137	8.68	0.34	3.9	8.6	7.2 - 10.2	134	6.43	0.26	4.1	6.4	5.3 - 7.6
All Alfa Wassermann Reagents	17	8.90	0.25	2.9	8.9	7.3 - 10.5	17	6.72	0.22	3.2	6.7	5.5 - 7.9
All Roche Reagents	24	8.68	0.20	2.3	8.6	7.2 - 10.2	25	6.38	0.21	3.3	6.3	5.2 - 7.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	8.90	0.25	2.9	8.9	7.3 - 10.5	17	6.72	0.22	3.2	6.7	5.5 - 7.9
Beckman AU												
Beckman AU systems	24	8.76	0.27	3.0	8.8	7.2 - 10.3	24	6.47	0.23	3.6	6.5	5.3 - 7.6
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	8.49	0.21	2.4	8.5	7.0 - 10.0	11	6.27	0.13	2.0	6.3	5.2 - 7.4
Roche Integra												
Roche Integra	14	8.82	0.27	3.1	8.8	7.3 - 10.4	14	6.48	0.20	3.2	6.5	5.3 - 7.6
Siemens Healthcare												
Siemens Dimension	22	8.42	0.22	2.7	8.4	6.9 - 9.9	22	6.23	0.15	2.3	6.3	5.1 - 7.3
All Chemistry Instruments	24	8.43	0.22	2.6	8.4	6.9 - 9.9	24	6.23	0.14	2.3	6.3	5.1 - 7.3
VITROS												
VITROS 250,350,400 500,700,750,950	14	8.65	0.23	2.7	8.7	7.1 - 10.2	15	6.31	0.20	3.2	6.3	5.2 - 7.4
All Chemistry Instruments	16	8.60	0.26	3.1	8.6	7.1 - 10.1	17	6.29	0.20	3.2	6.3	5.2 - 7.4

	Specimen CH-8						Specimen CH-9					
All Method	134	8.27	0.33	4.0	8.2	6.8 - 9.7	133	5.51	0.24	4.4	5.4	4.5 - 6.5
All Alfa Wassermann Reagents	17	8.54	0.30	3.5	8.5	7.0 - 10.0	16	5.88	0.16	2.8	5.9	4.8 - 6.9
All Roche Reagents	24	8.22	0.22	2.7	8.2	6.8 - 9.7	24	5.43	0.13	2.3	5.4	4.5 - 6.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	8.54	0.30	3.5	8.5	7.0 - 10.0	16	5.88	0.16	2.8	5.9	4.8 - 6.9
Beckman AU												
Beckman AU systems	24	8.34	0.24	2.8	8.3	6.9 - 9.8	24	5.54	0.14	2.6	5.6	4.5 - 6.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	8.02	0.18	2.2	8.0	6.6 - 9.4	11	5.39	0.14	2.6	5.4	4.4 - 6.4
Roche Integra												
Roche Integra	14	8.42	0.25	3.0	8.4	6.9 - 9.9	14	5.54	0.17	3.1	5.5	4.6 - 6.5
Siemens Healthcare												
Siemens Dimension	21	8.05	0.12	1.6	8.1	6.6 - 9.5	21	5.31	0.11	2.1	5.3	4.4 - 6.3
All Chemistry Instruments	23	8.05	0.13	1.7	8.1	6.6 - 9.5	23	5.31	0.11	2.0	5.3	4.4 - 6.3
VITROS												
VITROS 250,350,400 500,700,750,950	15	8.19	0.24	2.9	8.2	6.7 - 9.6	15	5.39	0.18	3.2	5.4	4.4 - 6.4
All Chemistry Instruments	17	8.15	0.26	3.1	8.2	6.7 - 9.6	17	5.36	0.19	3.6	5.4	4.4 - 6.3

Uric Acid (mg/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	132	2.73	0.32	11.6	2.7	2.2 - 3.2
All Alfa Wassermann Reagents	17	3.57	0.28	7.8	3.5	2.9 - 4.2
All Roche Reagents	24	2.59	0.07	2.5	2.6	2.1 - 3.1
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	17	3.57	0.28	7.8	3.5	2.9 - 4.2
Beckman AU						
Beckman AU systems	24	2.71	0.10	3.8	2.7	2.2 - 3.2
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	2.61	0.09	3.6	2.6	2.1 - 3.1
Roche Integra						
Roche Integra	14	2.64	0.09	3.5	2.6	2.1 - 3.1
Siemens Healthcare						
Siemens Dimension	22	2.61	0.14	5.3	2.6	2.1 - 3.1
All Chemistry Instruments	24	2.61	0.13	5.1	2.6	2.1 - 3.1
VITROS						
VITROS 250,350,400 500,700,750,950	14	2.54	0.13	5.0	2.5	2.1 - 3.0
All Chemistry Instruments	16	2.52	0.13	5.1	2.5	2.0 - 3.0

Chloride (mmol/L)

Method/Instrument	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	203	110.9	3.1	2.8	111	105 - 117	212	104.0	3.0	2.8	103	98 - 110
Abaxis Piccolo												
Abaxis Piccolo - waived	19	111.6	2.4	2.1	112	106 - 118	19	106.2	1.7	1.6	106	100 - 112
All Chemistry Instruments	24	111.8	2.2	2.0	112	106 - 118	24	106.4	1.6	1.5	107	101 - 112
ISE Diluted												
Beckman AU systems	30	107.7	1.2	1.1	108	102 - 114	30	101.7	0.9	0.9	102	96 - 107
Roche Integra	18	112.7	2.8	2.5	112	107 - 119	19	106.2	3.8	3.6	105	100 - 112
Siemens Dimension QuickLyte - Xpand/EXL	22	111.0	1.4	1.3	111	105 - 117	22	103.4	1.3	1.2	103	98 - 109
All Chemistry Instruments	107	110.3	3.3	2.9	110	104 - 116	104	103.1	2.2	2.2	103	97 - 109
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	24	113.0	1.4	1.2	113	107 - 119	24	103.8	1.2	1.1	104	98 - 109
Horiba ABX Pentra 400 / C400	11	117.4	4.4	3.8	118	111 - 124	17	108.9	6.0	5.5	109	103 - 115
All Chemistry Instruments	44	113.8	3.9	3.5	113	108 - 120	49	105.5	4.1	3.9	104	100 - 111
VITROS												
VITROS 250,350,400 500,700,750,950	25	109.6	1.8	1.6	109	104 - 116	26	102.5	1.1	1.1	103	97 - 108
All Chemistry Instruments	27	109.8	1.8	1.7	109	104 - 116	28	102.6	1.1	1.1	103	97 - 108

Method/Instrument	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	190	109.6	3.0	2.7	109	104 - 116	193	100.7	2.4	2.4	100	95 - 106
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	112	106 - 118	4	-	-	-	105	98 - 110
All Chemistry Instruments	8	-	-	-	112	106 - 118	8	-	-	-	105	98 - 110
ISE Diluted												
Beckman AU systems	30	106.6	0.8	0.7	107	101 - 112	30	99.1	0.9	0.9	99	94 - 105
Roche Integra	19	112.8	4.6	4.1	112	107 - 119	19	103.5	3.4	3.3	103	98 - 109
Siemens Dimension QuickLyte - Xpand/EXL	22	110.0	1.4	1.2	110	104 - 116	22	100.0	1.2	1.2	100	94 - 105
All Chemistry Instruments	106	109.0	3.0	2.8	109	103 - 115	105	100.1	2.1	2.1	100	95 - 106
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	111.2	1.3	1.2	111	105 - 117	24	100.8	1.8	1.8	101	95 - 106
Horiba ABX Pentra 400 / C400	12	115.8	4.1	3.6	116	109 - 122	17	104.5	5.2	5.0	104	99 - 110
All Chemistry Instruments	45	111.9	3.8	3.4	111	106 - 118	49	101.8	3.7	3.7	101	96 - 107
VITROS												
VITROS 250,350,400 500,700,750,950	27	108.4	1.7	1.6	109	102 - 114	26	100.2	1.4	1.4	100	95 - 106
All Chemistry Instruments	29	108.4	1.6	1.5	109	103 - 114	28	100.2	1.3	1.3	100	95 - 106

Chloride (mmol/L)

Specimen CH-10

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	197	91.8	2.7	2.9	92	87 - 97
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	99	93 - 104
All Chemistry Instruments	8	-	-	-	99	93 - 104
ISE Diluted						
Beckman AU systems	30	91.5	0.7	0.8	91	86 - 97
Roche Integra	19	93.9	2.3	2.4	93	89 - 99
Siemens Dimension QuickLyte - Xpand/EXL	22	89.5	1.1	1.2	89	84 - 94
All Chemistry Instruments	105	91.2	2.0	2.2	91	86 - 96
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	24	90.5	1.9	2.1	91	85 - 96
Horiba ABX Pentra 400 / C400	17	92.6	3.0	3.3	93	88 - 98
All Chemistry Instruments	49	91.7	2.7	2.9	91	87 - 97
VITROS						
VITROS 250,350,400 500,700,750,950	25	92.2	1.1	1.2	92	87 - 97
All Chemistry Instruments	27	92.1	1.1	1.2	92	87 - 97

CO_2 (mmol/L)

Method/Instrument	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	208	29.2	2.8	9.7	29	23 - 36	209	24.4	2.3	9.3	25	19 - 30
Abaxis Piccolo												
Abaxis Piccolo - waived	17	29.2	1.6	5.6	29	23 - 36	17	24.2	1.5	6.1	25	19 - 30
All Chemistry Instruments	21	29.2	1.5	5.1	29	23 - 36	20	24.7	1.0	4.2	25	19 - 30
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	16	30.0	3.4	11.3	31	24 - 36	16	25.8	2.2	8.6	26	20 - 31
Beckman AU systems	25	30.9	2.1	6.7	32	24 - 38	25	25.1	1.7	6.8	25	20 - 31
Horiba ABX Pentra 400 / C400	16	28.8	1.8	6.3	29	23 - 35	16	24.2	1.7	7.0	25	19 - 30
Roche Integra	16	27.3	2.5	9.0	28	21 - 33	16	22.9	1.7	7.6	24	18 - 28
Siemens Dimension	20	32.1	1.7	5.4	32	25 - 39	21	26.7	2.2	8.1	27	21 - 33
All Chemistry Instruments	114	29.9	2.7	9.1	30	23 - 36	114	25.0	2.2	8.8	25	19 - 30
ISE Diluted												
All Chemistry Instruments	23	28.7	3.5	12.0	28	22 - 35	23	24.4	2.4	9.8	25	19 - 30
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	10	28.6	3.4	11.9	29	22 - 35	10	24.4	2.5	10.1	24	19 - 30
All Chemistry Instruments	17	27.9	3.7	13.2	28	22 - 34	17	23.8	3.2	13.3	24	19 - 29
VITROS												
VITROS 250,350,400 500,700,750,950	25	27.4	1.7	6.1	28	21 - 33	27	21.9	1.3	6.0	22	17 - 27
All Chemistry Instruments	27	27.3	2.0	7.3	28	21 - 33	29	21.9	1.3	5.8	22	17 - 27

Method/Instrument	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	194	28.2	2.7	9.6	28	22 - 34	194	22.1	2.7	12.1	22	17 - 27
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	28	22 - 35	4	-	-	-	23	18 - 28
All Chemistry Instruments	8	-	-	-	28	22 - 35	8	-	-	-	23	18 - 28
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	15	29.7	2.1	7.0	30	23 - 36	16	22.5	3.4	15.0	22	18 - 27
Beckman AU systems	25	29.3	2.1	7.1	30	23 - 36	25	23.2	1.7	7.4	23	18 - 28
Horiba ABX Pentra 400	16	27.3	1.8	6.6	28	21 - 33	16	22.3	1.9	8.5	23	17 - 27
Roche Integra	16	26.1	2.5	9.6	27	20 - 32	16	20.9	2.2	10.8	22	16 - 26
Siemens Dimension	21	30.5	2.1	6.8	31	24 - 37	21	24.4	2.4	9.8	25	19 - 30
All Chemistry Instruments	114	28.7	2.5	8.9	29	22 - 35	113	22.7	2.4	10.4	23	18 - 28
ISE Diluted												
All Chemistry Instruments	23	28.5	2.9	10.1	28	22 - 35	22	22.1	2.0	9.3	22	17 - 27
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	10	28.3	4.1	14.3	29	22 - 34	10	22.5	2.4	10.7	23	18 - 27
All Chemistry Instruments	17	27.5	4.0	14.6	29	22 - 34	17	21.9	2.9	13.3	22	17 - 27
VITROS												
VITROS 250,350,400 500,700,750,950	26	25.2	2.0	7.9	25	20 - 31	27	18.7	2.2	11.9	19	14 - 23
All Chemistry Instruments	28	25.3	2.0	7.7	25	20 - 31	29	18.9	2.2	11.8	19	15 - 23

CO_2 (mmol/L)

Specimen CH-10

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	196	15.6	2.4	15.5	16	12 - 19
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	16	12 - 19
All Chemistry Instruments	8	-	-	-	16	12 - 19
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	16	17.9	3.1	17.6	18	14 - 22
Beckman AU systems	25	16.1	1.3	7.9	16	12 - 20
Horiba ABX Pentra 400	16	16.0	1.5	9.1	16	12 - 20
Roche Integra	16	14.5	1.9	13.1	15	11 - 18
Siemens Dimension	21	17.0	2.4	14.2	18	13 - 21
All Chemistry Instruments	114	16.2	2.1	12.8	16	12 - 20
ISE Diluted						
All Chemistry Instruments	23	16.5	2.1	12.5	17	13 - 20
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	10	15.9	2.5	15.5	17	12 - 20
All Chemistry Instruments	17	15.5	2.7	17.7	16	12 - 19
VITROS						
VITROS 250,350,400 500,700,750,950	26	12.3	1.7	13.9	12	9 - 15
All Chemistry Instruments	28	12.5	1.7	13.9	12	9 - 15

Potassium (mmol/L)

Method/Instrument	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	215	6.37	0.19	3.1	6.4	5.8 - 6.9	214	5.11	0.12	2.4	5.1	4.6 - 5.7
Abaxis Piccolo												
Abaxis Piccolo - waived	18	6.26	0.28	4.5	6.2	5.7 - 6.8	18	4.97	0.19	3.8	5.0	4.4 - 5.5
All Chemistry Instruments	23	6.22	0.18	2.9	6.2	5.7 - 6.8	24	5.00	0.20	4.0	5.0	4.5 - 5.6
ISE Diluted												
Beckman AU systems	30	6.19	0.08	1.2	6.2	5.6 - 6.7	30	5.01	0.04	0.7	5.0	4.5 - 5.6
Roche Integra	19	6.36	0.06	1.0	6.4	5.8 - 6.9	19	5.11	0.05	0.9	5.1	4.6 - 5.7
Siemens Dimension QuickLyte - Xpand/EXL	22	6.36	0.10	1.6	6.3	5.8 - 6.9	21	5.11	0.04	0.9	5.1	4.6 - 5.7
All Chemistry Instruments	107	6.31	0.13	2.0	6.3	5.8 - 6.9	106	5.08	0.09	1.7	5.1	4.5 - 5.6
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	6.59	0.14	2.1	6.6	6.0 - 7.1	25	5.18	0.06	1.2	5.2	4.6 - 5.7
Horiba ABX Pentra 400 / C400	18	6.28	0.18	2.8	6.3	5.7 - 6.8	18	5.01	0.10	2.0	5.0	4.5 - 5.6
All Chemistry Instruments	52	6.43	0.22	3.5	6.5	5.9 - 7.0	52	5.10	0.12	2.3	5.1	4.6 - 5.7
VITROS												
VITROS 250,350,400 500,700,750,950	26	6.58	0.09	1.4	6.6	6.0 - 7.1	27	5.27	0.07	1.3	5.3	4.7 - 5.8
All Chemistry Instruments	28	6.58	0.10	1.6	6.6	6.0 - 7.1	30	5.25	0.09	1.6	5.3	4.7 - 5.8

Method/Instrument	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	203	6.15	0.16	2.6	6.1	5.6 - 6.7	203	4.61	0.10	2.3	4.6	4.1 - 5.2
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	6.1	5.6 - 6.7	3	-	-	-	4.6	4.0 - 5.1
All Chemistry Instruments	8	-	-	-	6.1	5.6 - 6.7	8	-	-	-	4.6	4.0 - 5.1
ISE Diluted												
Beckman AU systems	30	5.99	0.05	0.9	6.0	5.4 - 6.5	30	4.51	0.04	1.0	4.5	4.0 - 5.1
Roche Integra	19	6.13	0.07	1.1	6.1	5.6 - 6.7	19	4.61	0.05	1.1	4.6	4.1 - 5.2
Siemens Dimension QuickLyte - Xpand/EXL	22	6.14	0.09	1.5	6.1	5.6 - 6.7	21	4.60	0.04	1.0	4.6	4.1 - 5.1
All Chemistry Instruments	106	6.08	0.11	1.8	6.1	5.5 - 6.6	108	4.58	0.08	1.7	4.6	4.0 - 5.1
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	26	6.28	0.11	1.7	6.3	5.7 - 6.8	25	4.64	0.06	1.4	4.6	4.1 - 5.2
Horiba ABX Pentra 400	18	6.03	0.15	2.5	6.1	5.5 - 6.6	18	4.52	0.07	1.6	4.5	4.0 - 5.1
All Chemistry Instruments	52	6.17	0.17	2.8	6.2	5.6 - 6.7	51	4.59	0.08	1.8	4.6	4.0 - 5.1
VITROS												
VITROS 250,350,400 500,700,750,950	28	6.33	0.11	1.8	6.3	5.8 - 6.9	28	4.75	0.07	1.6	4.8	4.2 - 5.3
All Chemistry Instruments	30	6.32	0.12	1.8	6.3	5.8 - 6.9	30	4.74	0.08	1.6	4.8	4.2 - 5.3

Potassium (mmol/L)

Specimen CH-10

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	199	3.08	0.08	2.6	3.1	2.5 - 3.6
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	3.1	2.5 - 3.6
All Chemistry Instruments	8	-	-	-	3.1	2.5 - 3.6
ISE Diluted						
Beckman AU systems	30	3.08	0.05	1.6	3.1	2.5 - 3.6
Roche Integra	19	3.09	0.05	1.5	3.1	2.5 - 3.6
Siemens Dimension QuickLyte - Xpand/EXL	22	3.04	0.06	1.9	3.0	2.5 - 3.6
All Chemistry Instruments	107	3.08	0.06	2.1	3.1	2.5 - 3.6
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	25	3.04	0.06	1.9	3.0	2.5 - 3.6
Horiba ABX Pentra 400	18	3.06	0.07	2.3	3.1	2.5 - 3.6
All Chemistry Instruments	51	3.05	0.07	2.2	3.1	2.5 - 3.6
VITROS						
VITROS 250,350,400 500,700,750,950	27	3.20	0.04	1.4	3.2	2.6 - 3.7
All Chemistry Instruments	29	3.19	0.05	1.5	3.2	2.6 - 3.7

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-6						Specimen CH-7					
Method/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	215	152.3	3.7	2.4	152	148 - 157	216	142.0	2.9	2.0	141	137 - 146
Abaxis Piccolo												
Abaxis Piccolo - waived	19	156.0	2.9	1.8	156	152 - 160	19	145.4	2.0	1.4	145	141 - 150
All Chemistry Instruments	24	156.2	2.6	1.7	156	152 - 161	24	145.6	2.0	1.4	146	141 - 150
ISE Diluted												
Beckman AU systems	30	148.1	1.4	0.9	148	144 - 153	30	139.4	1.2	0.9	139	135 - 144
Roche Integra	19	149.8	1.1	0.8	150	145 - 154	19	140.4	1.0	0.7	140	136 - 145
Siemens Dimension QuickLyte - Xpand/EXL	23	150.8	1.6	1.1	151	146 - 155	23	141.7	1.3	0.9	142	137 - 146
All Chemistry Instruments	109	149.7	1.9	1.3	150	145 - 154	108	140.5	1.5	1.1	140	136 - 145
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	153.9	1.8	1.2	154	149 - 158	25	140.6	1.1	0.8	141	136 - 145
Horiba ABX Pentra 400 / C400	17	153.1	2.0	1.3	153	149 - 158	17	141.1	1.5	1.1	141	137 - 146
All Chemistry Instruments	49	153.3	2.0	1.3	153	149 - 158	48	140.6	1.1	0.8	141	136 - 145
VITROS												
VITROS 250,350,400 500,700,750,950	26	157.5	2.0	1.3	157	153 - 162	28	146.5	2.0	1.4	146	142 - 151
All Chemistry Instruments	28	157.7	2.2	1.4	157	153 - 162	30	146.5	2.1	1.4	146	142 - 151

	Specimen CH-8						Specimen CH-9					
All Method	201	150.0	3.2	2.1	149	146 - 155	201	137.5	2.9	2.1	137	133 - 142
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	155	151 - 160	4	-	-	-	142	138 - 147
All Chemistry Instruments	8	-	-	-	155	151 - 160	8	-	-	-	143	138 - 147
ISE Diluted												
Beckman AU systems	30	147.1	1.1	0.7	147	143 - 152	30	135.5	1.0	0.7	136	131 - 140
Roche Integra	19	148.1	1.1	0.7	148	144 - 153	19	136.2	1.0	0.8	136	132 - 141
Siemens Dimension QuickLyte - Xpand/EXL	23	148.9	1.3	0.9	149	144 - 153	23	137.7	1.4	1.0	137	133 - 142
All Chemistry Instruments	107	148.1	1.6	1.1	148	144 - 153	107	136.5	1.4	1.0	136	132 - 141
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	26	150.5	1.6	1.1	151	146 - 155	25	135.9	1.8	1.3	135	131 - 140
Horiba ABX Pentra 400	17	150.6	1.8	1.2	151	146 - 155	17	136.2	1.3	0.9	136	132 - 141
All Chemistry Instruments	49	150.2	1.5	1.0	150	146 - 155	48	135.9	1.3	1.0	136	131 - 140
VITROS												
VITROS 250,350,400 500,700,750,950	27	155.2	2.0	1.3	155	151 - 160	28	142.6	2.4	1.7	142	138 - 147
All Chemistry Instruments	29	155.3	2.0	1.3	155	151 - 160	30	142.6	2.4	1.7	142	138 - 147

Sodium (mmol/L)

Specimen CH-10

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	200	125.0	3.0	2.4	124	120 - 129
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	130	125 - 133
All Chemistry Instruments	8	-	-	-	129	125 - 133
ISE Diluted						
Beckman AU systems	29	123.7	1.1	0.9	124	119 - 128
Roche Integra	19	124.2	1.1	0.9	124	120 - 129
Siemens Dimension QuickLyte - Xpand/EXL	23	126.3	1.2	1.0	126	122 - 131
All Chemistry Instruments	109	124.7	1.6	1.3	125	120 - 129
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	26	121.5	2.2	1.8	121	117 - 126
Horiba ABX Pentra 400	17	122.7	1.1	0.9	123	118 - 127
All Chemistry Instruments	49	122.2	2.0	1.6	122	118 - 127
VITROS						
VITROS 250,350,400 500,700,750,950	26	129.8	1.6	1.2	130	125 - 134
All Chemistry Instruments	28	129.8	1.5	1.2	130	125 - 134

TIBC – Calculated (µg/dL)

Method/Instrument	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	11	281.7	64.5	22.9	308	152 - 411	11	217.4	45.8	21.1	240	125 - 310

Method/Instrument	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	11	271.4	62.1	22.9	298	147 - 396	11	191.5	38.9	20.3	208	113 - 270

Method/Instrument	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	11	110.5	19.8	17.9	113	70 - 150

TIBC – Direct (µg/dL)

Method/Instrument	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	21	258.0	28.5	11.1	252	200 - 316	21	208.4	42.3	20.3	192	123 - 294
Siemens Healthcare												
Siemens Dimension	12	239.4	10.4	4.4	238	191 - 288	12	185.7	19.1	10.3	184	147 - 224
All Chemistry Instruments	14	241.5	11.1	4.6	240	193 - 290	13	182.2	7.7	4.2	184	145 - 219

Method/Instrument	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	21	245.3	32.8	13.4	240	179 - 311	21	179.7	38.9	21.6	162	101 - 258
Siemens Healthcare												
Siemens Dimension	12	226.0	14.9	6.6	231	180 - 272	12	156.2	6.2	4.0	157	124 - 188
All Chemistry Instruments	14	228.1	14.8	6.5	233	182 - 274	14	157.6	7.3	4.6	157	126 - 190

Method/Instrument	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	21	109.3	38.1	34.9	97	33 - 186
Siemens Healthcare						
Siemens Dimension	12	85.3	7.6	8.9	85	68 - 103
All Chemistry Instruments	14	86.3	7.7	9.0	86	69 - 104

UIBC – Direct (µg/dL)

Method/Instrument	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	25	149.6	12.4	8.3	150	119 - 180	25	120.0	12.7	10.5	119	94 - 146
All Roche Reagents	13	145.4	11.5	7.9	146	116 - 175	13	116.1	11.0	9.5	116	92 - 140
Beckman AU												
Beckman AU systems	10	157.8	9.4	5.9	157	126 - 190	10	128.3	10.5	8.2	129	102 - 154

Method/Instrument	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	25	144.6	12.7	8.8	146	115 - 174	25	107.0	11.7	11.0	108	83 - 131
All Roche Reagents	13	143.3	9.9	6.9	144	114 - 172	13	104.3	12.1	11.6	101	80 - 129
Beckman AU												
Beckman AU systems	10	151.7	8.3	5.5	149	121 - 183	10	113.5	8.1	7.1	115	90 - 137

Method/Instrument	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	25	68.6	8.6	12.6	70	51 - 86
All Roche Reagents	13	65.2	7.5	11.5	63	50 - 81
Beckman AU						
Beckman AU systems	10	74.9	5.9	7.8	74	59 - 90

ALT (SGPT) (IU/L)

	Specimen CH-6						Specimen CH-7					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	208	207.6	19.6	9.5	211	166 - 250	211	146.4	14.2	9.7	148	117 - 176
All Alfa Wassermann Reagents	26	179.8	5.4	3.0	180	143 - 216	27	126.9	4.2	3.3	127	101 - 153
All Horiba Pentra Reagents	20	241.8	11.8	4.9	241	193 - 291	20	169.5	8.1	4.8	169	135 - 204
All Roche Reagents	29	211.1	3.2	1.5	211	168 - 254	29	147.5	2.4	1.6	147	118 - 178
Abaxis Piccolo												
Abaxis Piccolo - waived	18	190.8	3.5	1.9	191	152 - 229	18	136.0	3.1	2.3	136	108 - 164
All Chemistry Instruments	24	191.0	3.3	1.7	191	152 - 230	24	135.8	3.0	2.2	135	108 - 163
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	180.2	5.4	3.0	180	144 - 217	23	127.1	4.2	3.3	127	101 - 153
Beckman AU												
Beckman AU systems	30	192.7	5.2	2.7	194	154 - 232	30	134.2	3.6	2.7	135	107 - 162
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	241.8	11.8	4.9	241	193 - 291	20	169.5	8.1	4.8	169	135 - 204
Roche Integra												
Roche Integra	18	210.0	2.9	1.4	210	168 - 252	18	146.8	2.2	1.5	147	117 - 177
Siemens Healthcare ALTi												
Siemens Dimension	25	224.0	4.6	2.0	224	179 - 269	25	156.8	3.9	2.5	157	125 - 189
All Chemistry Instruments	26	223.7	4.9	2.2	224	178 - 269	26	156.5	4.1	2.6	157	125 - 188
VITROS												
VITROS 250,350,400 500,700,750,950	22	218.4	4.7	2.1	218	174 - 263	23	158.8	3.8	2.4	159	127 - 191
All Chemistry Instruments	24	218.8	5.3	2.4	218	175 - 263	25	159.4	4.6	2.9	160	127 - 192

ALT (SGPT) (IU/L)

	Specimen CH-8						Specimen CH-9					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	193	197.6	18.2	9.2	201	158 - 238	195	122.3	12.7	10.4	123	97 - 147
All Alfa Wassermann Reagents	26	172.1	4.7	2.7	172	137 - 207	27	103.9	3.8	3.7	103	83 - 125
All Horiba Pentra Reagents	20	227.8	10.0	4.4	230	182 - 274	20	140.7	6.3	4.5	140	112 - 169
All Roche Reagents	29	199.3	3.4	1.7	199	159 - 240	29	122.2	1.6	1.3	122	97 - 147
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	179	144 - 217	4	-	-	-	112	91 - 137
All Chemistry Instruments	9	-	-	-	180	144 - 217	9	-	-	-	113	91 - 137
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	172.4	4.1	2.4	172	137 - 207	23	104.2	3.9	3.7	104	83 - 126
Beckman AU												
Beckman AU systems	30	181.6	5.2	2.9	181	145 - 218	30	111.3	3.3	2.9	112	89 - 134
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	227.8	10.0	4.4	230	182 - 274	20	140.7	6.3	4.5	140	112 - 169
Roche Integra												
Roche Integra	18	198.1	3.3	1.6	199	158 - 238	18	121.7	1.4	1.2	122	97 - 147
Siemens Healthcare ALTi												
Siemens Dimension	24	212.8	4.7	2.2	213	170 - 256	25	130.8	3.1	2.3	131	104 - 157
All Chemistry Instruments	25	212.4	5.0	2.4	213	169 - 255	26	130.5	3.5	2.6	131	104 - 157
VITROS												
VITROS 250,350,400 500,700,750,950	24	205.5	6.2	3.0	207	164 - 247	23	135.2	3.9	2.9	135	108 - 163
All Chemistry Instruments	26	206.3	6.7	3.2	207	165 - 248	25	135.8	4.5	3.3	135	108 - 163

ALT (SGPT) (IU/L)

Specimen CH-10

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	193	46.8	8.4	18.0	45	37 - 57
All Alfa Wassermann Reagents	27	36.3	3.0	8.3	36	29 - 44
All Horiba Pentra Reagents	20	51.8	2.8	5.4	52	41 - 63
All Roche Reagents	29	44.6	0.9	1.9	44	35 - 54
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	47	37 - 57
All Chemistry Instruments	9	-	-	-	47	37 - 57
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	23	36.5	3.1	8.4	36	29 - 44
Beckman AU						
Beckman AU systems	31	40.6	1.5	3.8	41	32 - 49
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	51.8	2.8	5.4	52	41 - 63
Roche Integra						
Roche Integra	19	44.3	1.1	2.5	44	35 - 54
Siemens Healthcare ALTi						
Siemens Dimension	25	50.8	1.8	3.6	51	40 - 61
All Chemistry Instruments	26	50.6	2.1	4.2	51	40 - 61
VITROS						
VITROS 250,350,400 500,700,750,950	22	64.0	4.9	7.7	64	51 - 77
All Chemistry Instruments	24	64.2	4.8	7.4	65	51 - 78

Alkaline Phosphatase (IU/L)

	Specimen CH-6						Specimen CH-7					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	213	245.9	36.3	14.8	254	172 - 320	213	186.5	22.5	12.0	189	130 - 243
All Alfa Wassermann Reagents	27	257.6	15.6	6.0	262	180 - 335	27	191.8	11.0	5.7	193	134 - 250
All Horiba Pentra Reagents	20	284.0	14.2	5.0	283	198 - 370	19	212.1	12.3	5.8	212	148 - 276
All Roche Reagents	29	264.7	7.1	2.7	265	185 - 345	29	197.0	4.9	2.5	197	137 - 257
Abaxis Piccolo												
Abaxis Piccolo - waived	18	201.6	5.9	2.9	202	141 - 263	18	159.6	4.7	3.0	160	111 - 208
All Chemistry Instruments	24	200.6	5.8	2.9	200	140 - 261	24	158.6	4.6	2.9	158	111 - 207
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	255.0	16.1	6.3	259	178 - 332	22	191.1	11.8	6.2	192	133 - 249
All Chemistry Instruments	23	255.7	16.0	6.3	262	178 - 333	23	191.5	11.7	6.1	193	134 - 249
Beckman AU												
Beckman AU systems	29	236.2	12.9	5.5	239	165 - 308	29	175.4	10.1	5.7	175	122 - 229
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	284.0	14.2	5.0	283	198 - 370	19	212.1	12.3	5.8	212	148 - 276
Roche Integra												
Roche Integra	18	267.2	11.8	4.4	266	187 - 348	18	199.4	7.9	4.0	200	139 - 260
All Chemistry Instruments	18	265.3	8.0	3.0	266	185 - 345	18	197.9	5.3	2.7	199	138 - 258
Siemens Healthcare ALPi												
Siemens Dimension	24	287.0	7.4	2.6	286	200 - 374	24	212.2	5.4	2.5	212	148 - 276
All Chemistry Instruments	25	287.5	7.5	2.6	286	201 - 374	25	212.3	5.3	2.5	212	148 - 277
VITROS												
VITROS 250,350,400 500,700,750,950	27	189.4	11.8	6.2	187	132 - 247	27	157.3	7.2	4.6	157	110 - 205
All Chemistry Instruments	29	190.1	13.1	6.9	187	133 - 248	29	157.7	7.6	4.8	157	110 - 205

Alkaline Phosphatase (IU/L)

	Specimen CH-8						Specimen CH-9					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	199	238.2	32.9	13.8	245	166 - 310	198	161.4	17.8	11.1	164	112 - 210
All Alfa Wassermann Reagents	27	247.4	14.1	5.7	250	173 - 322	27	164.8	9.5	5.8	166	115 - 215
All Horiba Pentra Reagents	20	270.1	14.5	5.4	269	189 - 352	20	181.8	12.0	6.6	180	127 - 237
All Roche Reagents	29	252.7	6.6	2.6	252	176 - 329	29	167.7	4.1	2.4	168	117 - 218
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	188	166 - 310	4	-	-	-	135	112 - 210
All Chemistry Instruments	9	-	-	-	195	134 - 250	9	-	-	-	135	94 - 177
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	245.3	14.5	5.9	249	171 - 319	22	163.2	9.7	6.0	163	114 - 213
All Chemistry Instruments	23	246.1	14.6	5.9	249	172 - 320	23	163.7	9.8	6.0	163	114 - 213
Beckman AU												
Beckman AU systems	29	224.7	12.3	5.5	226	157 - 293	29	148.1	8.5	5.7	149	103 - 193
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	270.1	14.5	5.4	269	189 - 352	20	181.8	12.0	6.6	180	127 - 237
Roche Integra												
Roche Integra	17	253.2	7.5	2.9	253	177 - 330	18	169.4	6.6	3.9	169	118 - 221
All Chemistry Instruments	18	253.1	7.3	2.9	253	177 - 330	18	168.2	4.4	2.6	169	117 - 219
Siemens Healthcare ALPi												
Siemens Dimension	24	274.0	6.7	2.5	274	191 - 357	24	181.2	5.1	2.8	181	126 - 236
All Chemistry Instruments	25	274.1	6.6	2.4	274	191 - 357	25	181.3	5.0	2.8	181	126 - 236
VITROS												
VITROS 250,350,400 500,700,750,950	28	185.8	10.9	5.9	185	130 - 242	28	140.7	9.2	6.6	141	98 - 183
All Chemistry Instruments	30	186.2	11.7	6.3	185	130 - 243	30	140.8	9.4	6.7	141	98 - 184

Alkaline Phosphatase (IU/L)

Specimen CH-10

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	197	74.3	6.6	8.8	75	52 - 97
All Alfa Wassermann Reagents	27	74.6	4.5	6.0	75	52 - 98
All Horiba Pentra Reagents	20	81.5	4.8	5.9	81	57 - 106
All Roche Reagents	29	75.6	2.5	3.3	76	52 - 99
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	69	52 - 97
All Chemistry Instruments	9	-	-	-	68	46 - 87
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	22	74.0	4.5	6.1	75	51 - 97
All Chemistry Instruments	23	74.2	4.5	6.1	75	51 - 97
Beckman AU						
Beckman AU systems	29	66.2	3.9	6.0	67	46 - 87
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	20	81.5	4.8	5.9	81	57 - 106
Roche Integra						
Roche Integra	18	76.0	3.6	4.7	76	53 - 99
All Chemistry Instruments	19	76.0	3.5	4.6	76	53 - 99
Siemens Healthcare ALPi						
Siemens Dimension	24	81.0	3.2	4.0	81	56 - 106
All Chemistry Instruments	25	81.1	3.1	3.9	81	56 - 106
VITROS						
VITROS 250,350,400 500,700,750,950	27	72.1	4.5	6.2	71	50 - 94
All Chemistry Instruments	29	72.0	4.6	6.3	71	50 - 94

AST (SGOT) (IU/L)

	Specimen CH-6						Specimen CH-7					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	185	257.5	25.6	9.9	260	205 - 309	185	207.8	16.1	7.7	211	166 - 250
All Alfa Wassermann Reagents	28	233.7	15.5	6.6	237	186 - 281	26	194.0	5.7	3.0	195	155 - 233
All Horiba Pentra Reagents	20	270.1	14.7	5.4	268	216 - 325	20	219.0	10.4	4.7	216	175 - 263
All Roche Reagents	29	264.7	9.8	3.7	266	211 - 318	28	215.6	8.1	3.7	218	172 - 259
Abaxis Piccolo												
Abaxis Piccolo - waived	18	249.2	5.6	2.3	248	199 - 300	18	203.1	4.0	1.9	203	162 - 244
All Chemistry Instruments	24	250.4	5.6	2.2	252	200 - 301	24	203.8	3.9	1.9	203	163 - 245
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	235.2	7.1	3.0	236	188 - 283	22	193.9	6.1	3.2	195	155 - 233
Beckman AU												
Beckman AU systems	30	228.1	6.4	2.8	229	182 - 274	30	185.0	5.2	2.8	186	148 - 222
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	270.1	14.7	5.4	268	216 - 325	20	219.0	10.4	4.7	216	175 - 263
Roche Integra												
Roche Integra	18	264.9	9.8	3.7	268	211 - 318	17	215.9	8.4	3.9	218	172 - 260
Siemens Healthcare												
Siemens Dimension	30	270.8	6.8	2.5	271	216 - 325	30	217.9	5.7	2.6	217	174 - 262
All Chemistry Instruments	32	270.9	6.6	2.4	271	216 - 326	32	217.9	5.6	2.5	217	174 - 262
VITROS												
VITROS 250,350,400 500,700,750,950	27	296.9	12.0	4.0	296	237 - 357	28	225.9	7.7	3.4	224	180 - 272
All Chemistry Instruments	29	298.3	13.2	4.4	296	238 - 358	30	226.5	7.8	3.4	224	181 - 272

AST (SGOT) (IU/L)

	Specimen CH-8						Specimen CH-9					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	170	250.3	23.2	9.3	255	200 - 301	170	187.6	14.6	7.8	193	150 - 226
All Alfa Wassermann Reagents	26	230.1	6.9	3.0	231	184 - 277	26	175.8	5.2	2.9	176	140 - 212
All Horiba Pentra Reagents	20	262.1	12.2	4.7	260	209 - 315	20	199.1	9.9	5.0	197	159 - 239
All Roche Reagents	29	256.5	9.2	3.6	259	205 - 308	29	195.3	7.0	3.6	197	156 - 235
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	242	200 - 301	4	-	-	-	183	150 - 226
All Chemistry Instruments	9	-	-	-	244	195 - 293	9	-	-	-	184	148 - 223
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	229.9	7.4	3.2	231	183 - 276	22	175.8	5.6	3.2	176	140 - 211
Beckman AU												
Beckman AU systems	30	220.4	6.0	2.7	222	176 - 265	30	167.0	4.6	2.7	168	133 - 201
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	262.1	12.2	4.7	260	209 - 315	20	199.1	9.9	5.0	197	159 - 239
Roche Integra												
Roche Integra	18	256.8	10.0	3.9	260	205 - 309	18	195.7	7.2	3.7	198	156 - 235
Siemens Healthcare												
Siemens Dimension	30	261.8	6.5	2.5	261	209 - 315	30	198.6	4.6	2.3	198	158 - 239
All Chemistry Instruments	32	262.0	6.4	2.4	261	209 - 315	32	198.5	4.4	2.2	198	158 - 239
VITROS												
VITROS 250,350,400 500,700,750,950	28	283.6	10.5	3.7	283	226 - 341	28	201.2	7.6	3.8	201	160 - 242
All Chemistry Instruments	30	284.0	10.4	3.6	285	227 - 341	30	201.2	7.4	3.7	201	160 - 242

AST (SGOT) (IU/L)

Specimen CH-10

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	169	128.0	9.8	7.7	131	102 - 154
All Alfa Wassermann Reagents	26	120.8	3.8	3.2	122	96 - 145
All Horiba Pentra Reagents	20	136.8	6.9	5.0	135	109 - 165
All Roche Reagents	29	133.7	5.1	3.8	135	106 - 161
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	129	102 - 154
All Chemistry Instruments	9	-	-	-	129	103 - 155
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	22	120.6	4.0	3.3	121	96 - 145
Beckman AU						
Beckman AU systems	30	114.2	3.2	2.8	115	91 - 138
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	136.8	6.9	5.0	135	109 - 165
Roche Integra						
Roche Integra	18	134.6	5.5	4.1	136	107 - 162
Siemens Healthcare						
Siemens Dimension	30	134.6	3.6	2.6	135	107 - 162
All Chemistry Instruments	32	134.5	3.5	2.6	134	107 - 162
VITROS						
VITROS 250,350,400 500,700,750,950	26	132.3	4.9	3.7	132	105 - 159
All Chemistry Instruments	28	132.2	4.8	3.6	132	105 - 159

Creatine Kinase (IU/L)

	Specimen CH-6						Specimen CH-7					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	82	236.7	19.4	8.2	238	165 - 308	82	166.3	12.4	7.4	168	116 - 217
All Alfa Wassermann Reagents	12	228.0	18.8	8.2	232	159 - 297	11	166.1	6.1	3.7	166	116 - 216
All Roche Reagents	14	250.7	11.6	4.6	255	175 - 326	14	176.0	7.2	4.1	178	123 - 229
Beckman AU												
Beckman AU systems	16	221.2	9.4	4.3	220	154 - 288	16	153.9	7.0	4.5	153	107 - 201
Siemens Healthcare CKI												
Siemens Dimension	19	251.4	6.1	2.4	252	175 - 327	18	174.7	3.3	1.9	174	122 - 228

	Specimen CH-8						Specimen CH-9					
All Method	82	225.0	17.5	7.8	226	157 - 293	82	136.9	10.5	7.7	140	95 - 178
All Alfa Wassermann Reagents	11	223.0	7.3	3.3	223	156 - 290	11	137.7	5.4	3.9	139	96 - 180
All Roche Reagents	14	237.2	11.0	4.6	241	166 - 309	14	144.6	6.5	4.5	147	101 - 188
Beckman AU												
Beckman AU systems	16	209.9	8.7	4.2	210	146 - 273	16	125.8	5.2	4.2	125	88 - 164
Siemens Healthcare CKI												
Siemens Dimension	19	238.0	6.3	2.6	239	166 - 310	18	144.7	3.2	2.2	144	101 - 189

	Specimen CH-10					
All Method	82	47.4	4.9	10.3	48	33 - 62
All Alfa Wassermann Reagents	11	52.3	3.6	6.8	52	36 - 68
All Roche Reagents	14	50.4	1.7	3.4	51	35 - 66
Beckman AU						
Beckman AU systems	17	43.0	4.0	9.3	43	30 - 56
Siemens Healthcare CKI						
Siemens Dimension	18	48.0	2.2	4.7	48	33 - 63

GGT (IU/L)

Instrument/Reagent	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	56	165.6	28.3	17.1	159	109 - 223	56	114.9	17.7	15.4	111	79 - 151
All Roche Reagents	21	159.3	7.1	4.4	159	127 - 192	21	111.5	4.7	4.2	111	89 - 134
Beckman AU												
Beckman AU systems	13	141.9	4.8	3.4	141	113 - 171	13	99.8	3.9	3.9	100	79 - 120
Roche cobas c 501												
Roche cobas 6000 / c 501	10	160.4	11.2	7.0	157	128 - 193	10	112.6	7.2	6.4	111	90 - 136
Roche Integra												
Roche Integra	11	159.3	3.1	1.9	159	127 - 192	11	111.4	2.0	1.8	112	89 - 134
Siemens Healthcare												
Siemens Dimension	10	208.5	3.4	1.6	209	166 - 251	10	149.5	2.2	1.5	149	119 - 180
All Chemistry Instruments	12	208.9	3.2	1.5	210	167 - 251	12	149.0	2.4	1.6	149	119 - 179

Instrument/Reagent	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	56	156.7	28.0	17.9	149	100 - 213	56	98.0	18.4	18.8	92	61 - 135
All Roche Reagents	21	150.1	6.4	4.2	149	120 - 181	21	93.1	4.2	4.5	93	74 - 112
Beckman AU												
Beckman AU systems	13	133.8	5.4	4.1	132	107 - 161	13	83.2	3.2	3.9	83	66 - 100
Roche cobas c 501												
Roche cobas 6000 / c 501	10	151.8	10.0	6.6	149	121 - 183	10	94.2	6.5	6.9	92	75 - 114
Roche Integra												
Roche Integra	11	149.7	2.4	1.6	150	119 - 180	11	93.0	1.3	1.4	93	74 - 112
Siemens Healthcare												
Siemens Dimension	10	199.2	3.1	1.5	198	159 - 240	10	126.0	2.4	1.9	126	100 - 152
All Chemistry Instruments	12	199.3	2.8	1.4	198	159 - 240	12	125.9	2.3	1.8	126	100 - 152

Instrument/Reagent	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	56	39.1	10.2	26.0	35	18 - 60
All Roche Reagents	21	34.7	1.7	4.8	34	27 - 42
Beckman AU						
Beckman AU systems	13	31.8	1.6	4.9	32	25 - 39
Roche cobas c 501						
Roche cobas 6000 / c 501	10	35.6	2.1	5.8	35	28 - 43
Roche Integra						
Roche Integra	11	34.3	1.1	3.2	34	27 - 42
Siemens Healthcare						
Siemens Dimension	10	53.0	1.1	2.1	53	42 - 64
All Chemistry Instruments	12	52.4	1.8	3.5	53	41 - 63

Amylase (IU/L)

	Specimen CH-6						Specimen CH-7					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	76	132.2	23.1	17.5	136	92 - 172	76	93.5	16.3	17.5	96	65 - 122
All Roche Reagents	12	137.1	4.1	3.0	137	95 - 179	12	96.8	3.3	3.4	96	67 - 126
Abaxis Piccolo												
Abaxis Piccolo - waived	10	134.8	0.8	0.6	135	94 - 176	10	95.2	1.5	1.6	95	66 - 124
All Chemistry Instruments	11	134.3	1.4	1.0	135	94 - 175	11	95.5	1.5	1.6	96	66 - 125
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	147.8	6.3	4.3	145	103 - 193	10	104.8	5.8	5.5	104	73 - 137
Beckman AU												
Beckman AU systems	11	117.9	5.9	5.0	118	82 - 154	11	84.1	3.9	4.7	84	58 - 110
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	147.8	6.5	4.4	147	103 - 193	11	104.8	3.8	3.6	104	73 - 137
Roche Integra												
Roche Integra	10	138.5	5.0	3.6	140	96 - 181	10	98.0	4.0	4.1	99	68 - 128
Siemens Healthcare												
Siemens Dimension	10	158.8	3.4	2.1	158	111 - 207	10	111.8	1.7	1.5	112	78 - 146
All Chemistry Instruments	11	158.6	3.2	2.0	157	110 - 207	11	111.6	1.7	1.5	112	78 - 146
VITROS												
VITROS 250,350,400 500,700,750,950	10	90.3	3.5	3.9	92	63 - 118	10	63.9	4.4	6.9	64	44 - 84
All Chemistry Instruments	11	91.2	4.4	4.8	92	63 - 119	11	64.2	4.2	6.6	64	44 - 84

Amylase (IU/L)

	Specimen CH-8						Specimen CH-9					
All Method	62	125.0	22.6	18.1	129	87 - 163	62	77.4	14.8	19.2	81	54 - 101
All Roche Reagents	12	129.5	4.2	3.2	129	90 - 169	12	80.8	2.2	2.7	81	56 - 105
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	129	87 - 163	9	-	-	-	80	54 - 101
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	138.8	1.3	0.9	138	97 - 181	10	87.8	3.1	3.5	87	61 - 115
Beckman AU												
Beckman AU systems	11	111.8	5.6	5.0	111	78 - 146	11	70.0	4.0	5.7	69	49 - 91
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	10	141.2	5.9	4.2	142	98 - 184	10	87.8	4.0	4.5	86	61 - 115
Roche Integra												
Roche Integra	10	131.2	5.3	4.0	133	91 - 171	10	81.3	2.9	3.5	82	56 - 106
Siemens Healthcare												
Siemens Dimension	10	151.4	2.7	1.8	152	105 - 197	10	92.6	2.1	2.2	93	64 - 121
All Chemistry Instruments	11	151.0	2.8	1.8	151	105 - 197	11	92.6	1.9	2.1	93	64 - 121
VITROS												
VITROS 250,350,400 500,700,750,950	10	86.3	4.3	5.0	87	60 - 113	10	50.4	3.7	7.3	51	35 - 66
All Chemistry Instruments	11	86.1	4.0	4.7	87	60 - 112	11	50.8	3.6	7.2	51	35 - 67

	Specimen CH-10					
All Method	62	31.5	3.3	10.6	32	22 - 41
All Roche Reagents	12	32.7	1.1	3.3	33	22 - 43
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	31	22 - 41
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	10	34.0	1.2	3.6	34	23 - 45
Beckman AU						
Beckman AU systems	11	26.9	1.6	5.9	27	18 - 35
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	10	34.8	1.5	4.3	35	24 - 46
Roche Integra						
Roche Integra	10	33.2	1.2	3.5	34	23 - 44
Siemens Healthcare						
Siemens Dimension	10	35.1	1.0	2.8	35	24 - 46
All Chemistry Instruments	11	35.1	0.9	2.6	35	24 - 46
VITROS						
VITROS 250,350,400 500,700,750,950	10	30.1	0.4	1.2	30	21 - 40
All Chemistry Instruments	11	30.1	0.3	1.1	30	21 - 40

Lactate Dehydrogenase (IU/L)

	Specimen CH-6						Specimen CH-7					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	72	598.6	46.1	7.7	619	478 - 719	72	445.3	45.0	10.1	463	356 - 535
All Horiba Pentra Reagents	12	601.8	15.9	2.6	603	481 - 723	12	443.7	12.6	2.8	440	354 - 533
All Roche Reagents	26	633.1	12.4	2.0	631	506 - 760	26	479.9	10.2	2.1	479	383 - 576
Beckman AU												
Beckman AU systems	12	516.9	22.7	4.4	522	413 - 621	12	388.5	19.9	5.1	392	310 - 467
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	10	601.8	15.9	2.6	603	481 - 723	10	443.7	12.6	2.8	440	354 - 533
Roche cobas c 501												
Roche cobas 6000 / c 501	11	636.1	15.5	2.4	639	508 - 764	11	477.9	12.2	2.5	480	382 - 574
Roche Integra												
Roche Integra	13	631.5	11.4	1.8	628	505 - 758	13	481.0	9.7	2.0	479	384 - 578
Siemens Healthcare LDI												
Siemens Dimension	10	592.0	22.4	3.8	591	473 - 711	10	451.5	9.7	2.1	454	361 - 542
VITROS												
VITROS 250,350,400 500,700,750,950	10	1910.3	40.8	2.1	1902	1528 - 2293	10	1406.0	20.3	1.4	1403	1124 - 1688
All Chemistry Instruments	12	1893.6	51.3	2.7	1892	1514 - 2273	12	1403.2	18.7	1.3	1396	1122 - 1684

Lactate Dehydrogenase (IU/L)

	Specimen CH-8						Specimen CH-9					
All Method	72	564.8	55.1	9.8	587	451 - 678	72	387.6	37.3	9.6	404	310 - 466
All Horiba Pentra Reagents	12	566.0	19.1	3.4	568	452 - 680	12	388.7	10.2	2.6	384	310 - 467
All Roche Reagents	26	605.5	13.5	2.2	606	484 - 727	26	416.5	8.0	1.9	416	333 - 500
Beckman AU												
Beckman AU systems	12	494.8	22.2	4.5	500	395 - 594	12	337.4	15.1	4.5	341	269 - 405
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	10	566.0	19.1	3.4	568	452 - 680	10	388.7	10.2	2.6	384	310 - 467
Roche cobas c 501												
Roche cobas 6000 / c 501	11	605.9	14.3	2.4	611	484 - 728	11	414.1	9.8	2.4	416	331 - 497
Roche Integra												
Roche Integra	13	605.5	14.1	2.3	606	484 - 727	13	418.0	7.3	1.7	418	334 - 502
Siemens Healthcare LDI												
Siemens Dimension	10	572.3	9.2	1.6	575	457 - 687	10	386.5	11.9	3.1	388	309 - 464
VITROS												
VITROS 250,350,400 500,700,750,950	10	1839.5	31.8	1.7	1829	1471 - 2208	10	1221.8	17.2	1.4	1223	977 - 1467
All Chemistry Instruments	12	1818.0	55.4	3.0	1817	1454 - 2182	12	1215.0	21.2	1.7	1222	972 - 1458

	Specimen CH-10					
All Method	72	205.3	20.9	10.2	216	164 - 247
All Horiba Pentra Reagents	12	208.8	6.7	3.2	211	167 - 251
All Roche Reagents	26	221.9	4.4	2.0	222	177 - 267
Beckman AU						
Beckman AU systems	12	176.6	8.0	4.5	178	141 - 212
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	10	208.8	6.7	3.2	211	167 - 251
Roche cobas c 501						
Roche cobas 6000 / c 501	11	219.6	5.5	2.5	220	175 - 264
Roche Integra						
Roche Integra	13	223.2	3.5	1.6	222	178 - 268
Siemens Healthcare LDI						
Siemens Dimension	10	201.8	7.7	3.8	199	161 - 243
VITROS						
VITROS 250,350,400 500,700,750,950	10	670.3	9.0	1.3	671	536 - 805
All Chemistry Instruments	12	663.0	18.0	2.7	666	530 - 796

Lipase (IU/L)

Instrument/Reagent	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
	Specimen CH-6						Specimen CH-7					
All Method	54	50.0	8.2	16.5	55	35 - 66	54	38.4	6.2	16.1	42	26 - 50
All Roche Reagents	13	45.7	4.8	10.4	44	31 - 60	13	35.0	3.0	8.6	34	24 - 46
Beckman AU												
Beckman AU systems	10	52.9	3.4	6.4	53	37 - 69	10	40.3	2.6	6.4	41	28 - 53
Siemens Healthcare												
Siemens Dimension	11	199.3	19.7	9.9	192	139 - 260	11	154.1	15.3	9.9	150	107 - 201
VITROS												
All Chemistry Instruments	10	538.4	37.7	7.0	542	376 - 700	10	421.0	33.2	7.9	424	294 - 548
	Specimen CH-8						Specimen CH-9					
All Method	54	47.0	7.4	15.8	51	32 - 62	54	33.9	6.5	19.0	35	23 - 45
All Roche Reagents	13	43.2	4.1	9.6	41	30 - 57	13	30.8	2.5	8.2	29	21 - 41
Beckman AU												
Beckman AU systems	10	50.3	3.0	6.0	50	35 - 66	10	40.6	15.3	37.8	35	28 - 53
Siemens Healthcare												
Siemens Dimension	11	192.7	20.4	10.6	186	134 - 251	11	137.9	14.6	10.6	134	96 - 180
VITROS												
All Chemistry Instruments	10	516.0	40.1	7.8	522	361 - 671	10	368.2	28.2	7.7	373	257 - 479
	Specimen CH-10											
All Method	54	18.6	2.6	13.8	20	13 - 25						
All Roche Reagents	13	17.9	1.5	8.1	17	12 - 24						
Beckman AU												
Beckman AU systems	10	19.3	1.4	7.2	20	13 - 26						
Siemens Healthcare												
Siemens Dimension	11	80.3	8.9	11.0	79	56 - 105						
VITROS												
All Chemistry Instruments	10	200.8	14.9	7.4	204	140 - 262						

Alpha-fetoprotein (AFP) (ng/mL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	247.83	23.36	9.4	245.2	177.7 - 318.0	5	168.38	15.52	9.2	167.7	121.8 - 215.0
	Specimen CH-8						**Specimen CH-9**					
All Method	5	232.53	21.72	9.3	232.8	167.3 - 297.7	5	135.13	13.65	10.1	134.4	94.1 - 176.1
	Specimen CH-10											
All Method	5	34.70	2.60	7.5	34.8	26.9 - 42.5						

Cortisol (µg/dL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	26.44	1.95	7.4	26.2	19.8 - 33.1	11	19.84	1.45	7.3	19.6	14.8 - 24.8
	Specimen CH-8						**Specimen CH-9**					
All Method	11	25.45	2.02	7.9	25.2	19.0 - 31.9	11	16.87	1.29	7.7	16.3	12.6 - 21.1
	Specimen CH-10											
All Method	11	7.71	0.63	8.2	7.6	5.7 - 9.7						

T_3 Uptake (percent)

Method	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	13	49.82	2.98	6.0	50.2	40.8 - 58.8	13	49.48	4.31	8.7	50.7	36.5 - 62.5

Method	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	13	49.59	3.43	6.9	50.6	39.3 - 59.9	13	49.42	4.07	8.2	50.0	37.2 - 61.7

Method	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	13	49.68	5.18	10.4	50.0	34.1 - 65.3

Triiodothyronine (ng/mL)

Method	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	46	1.87	0.42	22.6	2.1	0.6 - 3.2	46	1.57	0.31	19.5	1.7	0.6 - 2.5
All Roche Instruments	10	2.10	0.12	5.8	2.1	1.7 - 2.5	10	1.78	0.08	4.7	1.8	1.5 - 2.1
All TOSOH Instruments	12	5.23	0.24	4.7	5.2	4.4 - 6.0	12	4.30	0.28	6.6	4.3	3.4 - 5.2
Beckman ACCESS / 2 / DxI	12	2.08	0.21	10.1	2.1	1.4 - 2.8	12	1.69	0.18	10.5	1.7	1.1 - 2.3
TOSOH ST AIA PACK	10	5.21	0.26	5.0	5.1	4.4 - 6.0	10	4.26	0.28	6.5	4.3	3.4 - 5.1

Method	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	46	1.82	0.38	21.0	2.0	0.6 - 3.0	46	1.49	0.19	13.0	1.6	0.9 - 2.1
All Roche Instruments	10	2.08	0.08	4.0	2.1	1.8 - 2.4	10	1.68	0.08	5.0	1.7	1.4 - 2.0
All TOSOH Instruments	12	5.04	0.19	3.8	5.1	4.4 - 5.7	12	3.94	0.22	5.6	3.9	3.2 - 4.6
Beckman ACCESS / 2 / DxI	12	1.98	0.20	10.3	2.0	1.3 - 2.6	12	1.50	0.13	9.0	1.5	1.0 - 2.0
TOSOH ST AIA PACK	10	5.03	0.21	4.1	5.1	4.4 - 5.7	10	3.90	0.21	5.3	3.8	3.2 - 4.6

Method	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	46	1.00	0.24	24.1	1.1	0.2 - 1.8
All Roche Instruments	10	1.28	0.15	11.6	1.3	0.8 - 1.8
All TOSOH Instruments	12	2.50	0.14	5.7	2.5	2.0 - 3.0
Beckman ACCESS / 2 / DxI	12	0.95	0.11	11.4	1.0	0.6 - 1.3
TOSOH ST AIA PACK	10	2.49	0.15	5.9	2.5	2.0 - 3.0

Free T_3 (pg/mL)

Method	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	48	5.57	0.96	17.2	5.3	2.6 - 8.5	48	4.84	0.75	15.5	4.8	2.5 - 7.1
All Roche Instruments	10	6.72	0.48	7.2	6.7	5.2 - 8.2	10	5.52	0.16	3.0	5.5	5.0 - 6.1
All TOSOH Instruments	12	12.81	0.73	5.7	12.9	10.6 - 15.1	12	10.44	0.44	4.2	10.5	9.1 - 11.8
Beckman ACCESS / 2 / DxI	18	5.08	0.30	5.9	5.1	4.1 - 6.0	18	4.48	0.23	5.1	4.6	3.7 - 5.2
TOSOH ST AIA PACK	10	12.88	0.81	6.3	13.2	10.4 - 15.4	10	10.62	0.41	3.9	10.8	9.3 - 11.9

Method	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	48	5.45	0.92	16.8	5.2	2.7 - 8.2	48	4.51	0.63	14.0	4.5	2.6 - 6.5
All Abbott Instruments	10	6.58	0.30	4.6	6.7	5.6 - 7.5	10	5.00	0.19	3.7	5.0	4.4 - 5.6
All TOSOH Instruments	12	12.36	0.39	3.1	12.4	11.1 - 13.6	12	9.19	0.61	6.6	9.2	7.3 - 11.1
Beckman ACCESS / 2 / DxI	18	4.95	0.25	5.1	5.0	4.1 - 5.8	18	4.20	0.22	5.2	4.3	3.5 - 4.9
TOSOH ST AIA	10	12.48	0.38	3.1	12.4	11.3 - 13.7	10	9.46	0.35	3.7	9.5	8.4 - 10.6

Method	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	48	3.17	0.33	10.4	3.2	2.1 - 4.2
All Abbott Instruments	10	3.12	0.16	5.3	3.1	2.6 - 3.7
All TOSOH Instruments	12	5.49	0.25	4.5	5.5	4.7 - 6.3
Beckman ACCESS / 2 / DxI	18	3.06	0.21	6.9	3.2	2.4 - 3.7
TOSOH ST AIA	10	5.52	0.24	4.3	5.5	4.8 - 6.3

Thyroxine (µg/dL)

Method	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	46	17.42	1.74	10.0	17.6	13.9 - 21.0	46	12.06	0.80	6.6	12.4	9.6 - 14.5
All TOSOH Instruments	11	19.02	1.94	10.2	19.0	15.2 - 22.9	11	13.06	2.35	18.0	12.3	10.4 - 15.7
Beckman ACCESS / 2 / DxI	10	17.63	0.79	4.5	17.8	14.1 - 21.2	10	13.12	0.66	5.0	13.1	10.4 - 15.8
Siemens Dimension	11	17.28	0.71	4.1	17.1	13.8 - 20.8	11	12.36	0.42	3.4	12.2	9.8 - 14.9

Method	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	46	16.05	0.91	5.6	16.5	12.8 - 19.3	46	10.33	0.67	6.5	10.8	8.2 - 12.4
All TOSOH Instruments	11	17.90	3.47	19.4	16.3	14.3 - 21.5	11	11.34	1.91	16.9	10.8	9.0 - 13.7
Beckman ACCESS / 2 / DxI	10	17.09	1.04	6.1	17.1	13.6 - 20.6	10	11.54	0.59	5.1	11.7	9.2 - 13.9
Siemens Dimension	11	16.52	0.41	2.5	16.5	13.2 - 19.9	11	10.42	0.30	2.9	10.4	8.3 - 12.6

Method	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	46	4.03	0.18	4.5	4.1	3.0 - 5.1
All TOSOH Instruments	11	4.40	0.85	19.3	4.1	3.4 - 5.4
Beckman ACCESS / 2 / DxI	10	4.19	0.31	7.5	4.2	3.1 - 5.2
Siemens Dimension	11	4.16	0.22	5.3	4.2	3.1 - 5.2

Free Thyroxine (ng/dL)

Method	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	138	5.33	1.43	26.9	5.3	1.0 - 9.7	139	4.29	1.06	24.8	4.2	1.0 - 7.5
All Roche Instruments	11	5.74	0.31	5.4	5.8	4.8 - 6.7	11	4.27	0.17	4.1	4.3	3.7 - 4.8
All TOSOH Instruments	29	6.41	0.44	6.9	6.5	5.0 - 7.8	29	5.19	0.41	7.9	5.3	3.9 - 6.5
Abbott Architect	11	4.98	0.48	9.6	4.9	3.5 - 6.5	11	3.85	0.38	9.9	3.7	2.7 - 5.1
Beckman ACCESS / 2 / DxI	48	3.77	0.19	4.9	3.8	3.2 - 4.4	47	3.28	0.18	5.3	3.3	2.7 - 3.9
Siemens Dimension	21	7.30	1.07	14.7	7.6	4.0 - 10.6	21	5.42	0.62	11.4	5.6	3.5 - 7.3
TOSOH AIA PACK	12	6.38	0.45	7.0	6.4	5.0 - 7.8	12	5.14	0.44	8.5	5.4	3.8 - 6.5
TOSOH ST AIA PACK	17	6.44	0.45	7.0	6.5	5.0 - 7.8	17	5.22	0.40	7.7	5.2	4.0 - 6.5

Method	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	137	5.14	1.36	26.4	5.1	1.0 - 9.3	135	3.76	0.82	21.9	3.5	1.2 - 6.3
All Roche Instruments	11	5.43	0.29	5.3	5.5	4.5 - 6.3	11	3.66	0.16	4.3	3.7	3.1 - 4.2
All TOSOH Instruments	28	6.21	0.51	8.2	6.3	4.6 - 7.8	27	4.52	0.38	8.3	4.5	3.3 - 5.7
Abbott Architect	11	4.75	0.59	12.4	4.5	2.9 - 6.6	11	3.20	0.27	8.4	3.2	2.3 - 4.1
Beckman ACCESS / 2 / DxI	48	3.70	0.20	5.5	3.7	3.0 - 4.4	48	2.96	0.16	5.3	3.0	2.4 - 3.5
Siemens Dimension	21	6.92	1.00	14.5	7.3	3.9 - 10.0	21	4.66	0.31	6.6	4.7	3.7 - 5.6
TOSOH AIA PACK	12	6.03	0.54	9.0	6.3	4.3 - 7.7	12	4.61	0.79	17.2	4.5	2.2 - 7.0
TOSOH ST AIA PACK	16	6.34	0.44	7.0	6.4	5.0 - 7.7	16	4.60	0.39	8.4	4.7	3.4 - 5.8

Method	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	134	1.72	0.27	15.5	1.7	0.9 - 2.6
All Roche Instruments	11	1.72	0.08	4.4	1.7	1.4 - 2.0
All TOSOH Instruments	28	2.01	0.19	9.3	2.0	1.4 - 2.6
Abbott Architect	11	1.36	0.10	7.5	1.4	1.0 - 1.7
Beckman ACCESS / 2 / DxI	47	1.56	0.08	4.9	1.6	1.3 - 1.8
Siemens Dimension	21	1.84	0.10	5.6	1.8	1.5 - 2.2
TOSOH AIA PACK	12	1.95	0.16	8.0	2.0	1.4 - 2.5
TOSOH ST AIA PACK	16	2.05	0.20	9.8	2.1	1.4 - 2.7

TSH (μU/mL)

Method	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	168	6.63	0.76	11.4	6.6	4.3 - 9.0	168	4.73	0.55	11.6	4.7	3.0 - 6.4
All Abbott Instruments	12	6.01	0.36	6.0	6.1	4.9 - 7.1	12	4.26	0.28	6.6	4.3	3.4 - 5.2
All Roche Instruments	13	6.22	0.21	3.4	6.3	5.5 - 6.9	13	4.64	0.15	3.2	4.6	4.1 - 5.1
All TOSOH Instruments	39	7.48	0.48	6.4	7.4	6.0 - 9.0	37	5.44	0.27	5.0	5.4	4.6 - 6.3
Abbott Architect	12	6.01	0.36	6.0	6.1	4.9 - 7.1	12	4.26	0.28	6.6	4.3	3.4 - 5.2
Beckman ACCESS / 2 / DxI	57	6.47	0.56	8.6	6.5	4.7 - 8.2	56	4.52	0.31	6.8	4.6	3.5 - 5.5
Siemens Dimension	26	6.13	0.68	11.0	5.9	4.1 - 8.2	27	4.34	0.48	11.0	4.2	2.9 - 5.8
TOSOH AIA PACK	16	7.63	0.54	7.0	7.7	6.0 - 9.3	16	5.48	0.41	7.5	5.5	4.2 - 6.8
TOSOH ST AIA PACK	23	7.38	0.42	5.6	7.4	6.1 - 8.7	23	5.41	0.34	6.3	5.4	4.3 - 6.5

Method	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	168	6.28	0.73	11.7	6.2	4.0 - 8.5	169	3.92	0.48	12.4	3.8	2.4 - 5.4
All Abbott Instruments	12	5.69	0.37	6.5	5.8	4.5 - 6.9	12	3.51	0.22	6.1	3.6	2.8 - 4.2
All Roche Instruments	13	5.90	0.21	3.6	5.9	5.2 - 6.6	13	3.94	0.12	3.0	4.0	3.5 - 4.3
All TOSOH Instruments	37	7.10	0.39	5.5	7.1	5.9 - 8.3	39	4.52	0.34	7.4	4.5	3.5 - 5.6
Abbott Architect	12	5.69	0.37	6.5	5.8	4.5 - 6.9	12	3.51	0.22	6.1	3.6	2.8 - 4.2
Beckman ACCESS / 2 / DxI	56	6.03	0.50	8.2	6.1	4.5 - 7.6	56	3.71	0.23	6.2	3.8	3.0 - 4.5
Siemens Dimension	27	5.85	0.66	11.2	5.6	3.8 - 7.9	27	3.50	0.28	8.1	3.4	2.6 - 4.4
TOSOH AIA PACK	15	7.13	0.30	4.2	7.2	6.2 - 8.1	16	4.55	0.37	8.1	4.6	3.4 - 5.7
TOSOH ST AIA PACK	23	7.00	0.54	7.7	7.0	5.3 - 8.7	23	4.50	0.32	7.1	4.5	3.5 - 5.5

Method	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	169	1.31	0.17	13.0	1.3	0.7 - 1.9
All Abbott Instruments	12	1.13	0.08	6.9	1.2	0.8 - 1.4
All Roche Instruments	13	1.45	0.05	3.6	1.4	1.2 - 1.7
All TOSOH Instruments	39	1.52	0.13	8.4	1.5	1.1 - 2.0
Abbott Architect	12	1.13	0.08	6.9	1.2	0.8 - 1.4
Beckman ACCESS / 2 / DxI	56	1.21	0.07	6.1	1.2	0.9 - 1.5
Siemens Dimension	27	1.21	0.10	8.4	1.2	0.9 - 1.6
TOSOH AIA PACK	16	1.54	0.15	9.5	1.6	1.1 - 2.0
TOSOH ST AIA PACK	23	1.50	0.11	7.6	1.5	1.1 - 1.9

Serum hCG – Qualitative

	Specimen HCG-6		Specimen HCG-7	
Method	***Positive***	***Negative***	***Positive***	***Negative***
ALL METHODS	1	141	-	142
AimStep Combo Pregnancy	-	1	-	1
Alere hCG Cassette	-	1	-	1
Beckman ACCESS / 2 / DxI	-	1	-	1
Beckman Coulter ICON 20 hCG	-	68	-	68
Beckman Coulter ICON 25 hCG	-	3	-	3
BTNX Rapid Response hCG	-	2	-	2
Cardinal Health SP Brand combo	-	12	-	12
CONSULT diagnostics hCG Combo	1	11	-	12
Henry Schein One Step + Combo	-	4	-	4
i-STAT - moderate	-	2	-	2
McKesson hCG Combo Cassette	-	1	-	1
Medline hCG Combo Test Cassette	-	2	-	2
PSS Select hCG Combo	-	1	-	1
Quidel QuickVue + One-Step	-	8	-	8
Quidel QuickVue One-Step Combo	-	13	-	13
Quidel QuickVue Semi-Q hCG	-	1	-	1
Sekisui OSOM hCG Combo Test	-	2	-	2
Stanbio QUPID Plus	-	3	-	3
TOSOH ST AIA PACK	-	1	-	1

Serum hCG – Qualitative

	Specimen HCG-8		Specimen HCG-9	
Method	***Positive***	***Negative***	***Positive***	***Negative***
ALL METHODS	141	1	142	-
AimStep Combo Pregnancy	1	-	1	-
Alere hCG Cassette	1	-	1	-
Beckman ACCESS / 2 / DxI	1	-	1	-
Beckman Coulter ICON 20 hCG	68	-	68	-
Beckman Coulter ICON 25 hCG	3	-	3	-
BTNX Rapid Response hCG	2	-	2	-
Cardinal Health SP Brand combo	12	-	12	-
CONSULT diagnostics hCG Combo	11	1	12	-
Henry Schein One Step + Combo	4	-	4	-
i-STAT - moderate	2	-	2	-
McKesson hCG Combo Cassette	1	-	1	-
Medline hCG Combo Test Cassette	2	-	2	-
PSS Select hCG Combo	1	-	1	-
Quidel QuickVue + One-Step	8	-	8	-
Quidel QuickVue One-Step Combo	13	-	13	-
Quidel QuickVue Semi-Q hCG	1	-	1	-
Sekisui OSOM hCG Combo Test	2	-	2	-
Stanbio QUPID Plus	3	-	3	-
TOSOH ST AIA PACK	1	-	1	-

Serum hCG – Qualitative

Specimen HCG-10

Method	*Positive*	*Negative*
ALL METHODS	142	-
AimStep Combo Pregnancy	1	-
Alere hCG Cassette	1	-
Beckman ACCESS / 2 / DxI	1	-
Beckman Coulter ICON 20 hCG	68	-
Beckman Coulter ICON 25 hCG	3	-
BTNX Rapid Response hCG	2	-
Cardinal Health SP Brand combo	12	-
CONSULT diagnostics hCG Combo	12	-
Henry Schein One Step + Combo	4	-
i-STAT - moderate	2	-
McKesson hCG Combo Cassette	1	-
Medline hCG Combo Test Cassette	2	-
PSS Select hCG Combo	1	-
Quidel QuickVue + One-Step	8	-
Quidel QuickVue One-Step Combo	13	-
Quidel QuickVue Semi-Q hCG	1	-
Sekisui OSOM hCG Combo Test	2	-
Stanbio QUPID Plus	3	-
TOSOH ST AIA PACK	1	-

Serum hCG – Quantitative (mIU/mL)

	Specimen HCG-6						Specimen HCG-7					
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	20	1.4	1.4	99.3	1	0 - 6	20	1.4	1.4	99.3	1	0 - 6
	Specimen HCG-8						**Specimen HCG-9**					
All Method	19	1175.6	205.9	17.5	1100	558 - 1794	18	219.8	23.7	10.8	215	148 - 291
	Specimen HCG-10											
All Method	20	3517.1	814.7	23.2	3603	1072 - 5962						

Cholesterol, Total (mg/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	203	185.8	7.4	4.0	185	167 - 205	200	143.8	5.1	3.5	144	129 - 159
All Alfa Wassermann Reagents	27	190.3	5.3	2.8	190	171 - 210	27	148.4	3.5	2.3	148	133 - 164
All Horiba Pentra Reagents	13	186.5	6.2	3.3	187	167 - 206	13	145.3	6.1	4.2	147	130 - 160
All Roche Reagents	19	183.8	5.0	2.7	185	165 - 203	19	143.3	3.9	2.8	143	128 - 158
Alere Cholestech LDX												
Alere Cholestech LDX - waived	35	190.6	9.7	5.1	191	171 - 210	35	144.7	8.0	5.5	146	130 - 160
All Chemistry Instruments	36	190.9	9.8	5.1	191	171 - 211	35	145.5	6.9	4.7	146	130 - 161
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	190.0	5.1	2.7	190	171 - 209	26	148.2	3.5	2.3	148	133 - 164
Beckman AU												
Beckman AU systems	26	181.2	4.7	2.6	181	163 - 200	26	141.3	3.7	2.6	142	127 - 156
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	186.5	6.2	3.3	187	167 - 206	13	145.3	6.1	4.2	147	130 - 160
Roche Integra												
Roche Integra	10	183.3	5.9	3.2	185	164 - 202	10	143.1	4.9	3.4	144	128 - 158
Siemens Healthcare												
Siemens Dimension	26	180.2	3.5	2.0	180	162 - 199	26	139.7	3.2	2.3	139	125 - 154
All Chemistry Instruments	29	180.6	4.0	2.2	180	162 - 199	29	139.7	3.4	2.4	139	125 - 154
VITROS												
VITROS 250,350,400 500,700,750,950	22	186.0	5.8	3.1	186	167 - 205	23	143.3	4.9	3.4	143	128 - 158
All Chemistry Instruments	23	186.0	5.7	3.1	186	167 - 205	24	143.1	4.9	3.4	143	128 - 158

Cholesterol, Total (mg/dL)

	Specimen CH-8						Specimen CH-9					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	163	177.3	6.1	3.4	177	159 - 195	163	127.8	5.0	3.9	128	114 - 141
All Alfa Wassermann Reagents	27	181.6	4.9	2.7	180	163 - 200	27	133.6	4.1	3.0	133	120 - 147
All Horiba Pentra Reagents	13	178.2	5.6	3.1	178	160 - 197	13	129.9	3.5	2.7	129	116 - 143
All Roche Reagents	19	175.9	4.7	2.7	177	158 - 194	19	126.6	3.1	2.4	127	113 - 140
Alere Cholestech LDX												
Alere Cholestech LDX - waived	3	-	-	-	186	159 - 195	3	-	-	-	131	114 - 141
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	181.1	4.4	2.4	180	163 - 200	26	133.6	4.1	3.1	133	120 - 147
Beckman AU												
Beckman AU systems	26	174.0	4.1	2.4	175	156 - 192	26	125.3	3.3	2.6	126	112 - 138
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	178.2	5.6	3.1	178	160 - 197	13	129.9	3.5	2.7	129	116 - 143
Roche Integra												
Roche Integra	10	175.0	5.5	3.1	176	157 - 193	10	126.5	3.7	2.9	127	113 - 140
Siemens Healthcare												
Siemens Dimension	26	172.3	3.4	2.0	172	155 - 190	26	123.4	2.7	2.2	123	111 - 136
All Chemistry Instruments	29	172.4	3.6	2.1	172	155 - 190	28	123.3	2.6	2.1	123	110 - 136
VITROS												
VITROS 250,350,400 500,700,750,950	22	179.0	6.3	3.5	179	161 - 197	23	126.6	4.3	3.4	126	113 - 140
All Chemistry Instruments	23	179.0	6.1	3.4	178	161 - 197	24	126.2	4.6	3.6	126	113 - 139

Cholesterol, Total (mg/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	158	77.4	4.6	5.9	77	69 - 86
All Alfa Wassermann Reagents	26	82.6	2.6	3.1	82	74 - 91
All Horiba Pentra Reagents	13	78.9	3.0	3.8	79	71 - 87
All Roche Reagents	19	77.5	2.1	2.7	77	69 - 86
Alere Cholestech LDX						
Alere Cholestech LDX - waived	3	-	-	-	100	90 - 110
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	26	82.6	2.6	3.1	82	74 - 91
Beckman AU						
Beckman AU systems	25	76.7	2.2	2.9	77	69 - 85
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	13	78.9	3.0	3.8	79	71 - 87
Roche Integra						
Roche Integra	10	77.2	2.3	2.9	77	69 - 85
Siemens Healthcare						
Siemens Dimension	26	74.8	2.3	3.0	74	67 - 83
All Chemistry Instruments	29	75.0	2.5	3.4	74	67 - 83
VITROS						
VITROS 250,350,400 500,700,750,950	22	71.8	4.2	5.9	73	64 - 79
All Chemistry Instruments	23	71.7	4.1	5.8	73	64 - 79

LDL Cholesterol - Calculated (mg/dL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	143	63.1	11.9	18.9	63	39 - 88	144	49.3	10.4	21.2	49	28 - 71
Calculated-Trig/5												
Alere Cholestech LDX - waived	32	73.5	10.7	14.5	73	51 - 96	32	60.4	6.9	11.4	61	42 - 79
Alfa Wassermann ACE Alera/Axcel	17	69.8	4.6	6.6	71	48 - 91	17	52.5	4.5	8.5	52	36 - 69
Beckman AU systems	16	58.6	5.5	9.4	58	41 - 77	16	44.6	3.5	7.8	45	31 - 58
Horiba ABX Pentra 400 / C400	10	69.5	4.4	6.3	68	48 - 91	10	51.9	2.5	4.8	52	36 - 68
Siemens Dimension	12	54.7	6.3	11.6	54	38 - 72	12	38.8	5.8	14.9	39	27 - 51
VITROS 250,350,400 500,700,750,950	17	51.9	6.5	12.5	54	36 - 68	18	41.0	6.4	15.5	43	28 - 54
All Chemistry Instruments	132	62.9	12.1	19.2	63	38 - 88	133	49.0	10.6	21.7	48	27 - 71

	Specimen CH-8						Specimen CH-9					
All Method	108	57.5	10.9	18.9	57	35 - 80	108	40.4	8.5	20.9	40	23 - 58
Calculated-Trig/5												
Alere Cholestech LDX - waived	2	-	-	-	86	35 - 80	2	-	-	-	58	23 - 58
Alfa Wassermann ACE Alera/Axcel	17	66.4	5.2	7.8	66	46 - 87	17	46.1	5.6	12.2	45	32 - 60
Beckman AU systems	16	55.9	3.8	6.9	55	39 - 73	16	39.3	3.0	7.7	39	27 - 52
Horiba ABX Pentra 400 / C400	10	65.4	4.9	7.4	66	45 - 86	10	46.3	2.2	4.8	46	32 - 61
Siemens Dimension	12	50.8	6.1	12.0	51	35 - 66	12	33.4	5.0	14.9	33	23 - 44
VITROS 250,350,400 500,700,750,950	18	50.9	7.7	15.2	51	35 - 67	18	35.4	5.4	15.4	36	24 - 47
All Chemistry Instruments	101	57.4	11.1	19.3	57	35 - 80	101	40.1	8.6	21.3	40	23 - 58

	Specimen CH-10					
All Method	104	20.9	6.3	30.0	21	8 - 34
Calculated-Trig/5						
Alere Cholestech LDX - waived	1	-	-	-	60	8 - 34
Alfa Wassermann ACE Alera/Axcel	17	25.4	2.1	8.2	25	17 - 33
Beckman AU systems	16	21.1	3.7	17.5	21	13 - 29
Horiba ABX Pentra 400 / C400	10	25.4	1.3	5.0	25	17 - 34
Siemens Dimension	12	16.4	3.1	19.2	16	10 - 23
VITROS 250,350,400 500,700,750,950	17	13.5	4.4	32.2	15	4 - 23
All Chemistry Instruments	97	20.9	6.3	30.1	21	8 - 34

LDL Cholesterol - Direct (mg/dL)

Method	Specimen CH-6 Labs	Mean	SD	CV	Median	Range	Specimen CH-7 Labs	Mean	SD	CV	Median	Range
All Method	73	69.0	15.9	23.1	65	37 - 101	73	53.9	12.3	22.9	51	29 - 79
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	10	66.2	7.7	11.6	63	46 - 87	10	52.6	3.4	6.4	53	36 - 69
Beckman AU Direct HDL / LDL												
Beckman AU systems	12	52.4	3.2	6.2	53	36 - 69	12	40.7	2.5	6.1	41	28 - 53
Roche LDL Direct												
Roche cobas 6000 / c 501	10	96.8	1.9	2.0	96	67 - 126	10	75.0	2.3	3.1	74	52 - 98
All Chemistry Instruments	12	95.7	2.1	2.2	96	66 - 125	12	74.1	2.0	2.7	74	51 - 97
Siemens Automated LDL												
Siemens Dimension	12	67.0	3.5	5.2	67	46 - 88	12	53.0	4.0	7.6	51	37 - 69
All Chemistry Instruments	13	67.0	3.3	5.0	67	46 - 88	13	53.0	3.9	7.3	51	37 - 69

Method	Specimen CH-8 Labs	Mean	SD	CV	Median	Range	Specimen CH-9 Labs	Mean	SD	CV	Median	Range
All Method	73	65.8	15.1	22.9	63	35 - 96	73	47.6	11.0	23.0	46	25 - 70
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	10	63.8	4.0	6.2	63	44 - 83	10	45.2	2.7	5.9	45	31 - 59
Beckman AU Direct HDL / LDL												
Beckman AU systems	12	50.0	3.3	6.6	51	35 - 65	12	35.6	2.9	8.2	36	24 - 47
Roche LDL Direct												
Roche cobas 6000 / c 501	10	92.4	2.6	2.8	91	64 - 121	10	66.8	1.9	2.9	66	46 - 87
All Chemistry Instruments	12	91.7	2.5	2.8	91	64 - 120	12	65.8	2.1	3.2	66	46 - 86
Siemens Automated LDL												
Siemens Dimension	12	64.0	2.7	4.3	64	44 - 84	12	46.9	1.8	3.9	47	32 - 61
All Chemistry Instruments	13	64.1	2.6	4.1	64	44 - 84	13	46.9	1.8	3.7	47	32 - 61

Method	Specimen CH-10 Labs	Mean	SD	CV	Median	Range
All Method	73	29.1	6.6	22.6	28	15 - 43
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	10	27.4	3.0	10.8	26	19 - 36
Beckman AU Direct HDL / LDL						
Beckman AU systems	12	21.9	2.2	10.1	23	15 - 29
Roche LDL Direct						
Roche cobas 6000 / c 501	10	40.4	1.1	2.8	40	28 - 53
All Chemistry Instruments	12	40.0	1.4	3.5	40	28 - 52
Siemens Automated LDL						
Siemens Dimension	12	29.3	1.7	5.7	29	20 - 39
All Chemistry Instruments	13	29.3	1.6	5.5	29	20 - 39

Cholesterol, HDL (mg/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	196	86.0	6.8	8.0	86	60 - 112	199	64.5	7.6	11.7	66	45 - 84
All Dex-Sulfate 50,000 MW Methods	35	79.9	7.2	9.0	80	55 - 104	35	54.2	6.0	11.1	54	37 - 71
All Direct Methods	112	86.0	6.4	7.4	86	60 - 112	111	66.8	5.6	8.4	67	46 - 87
Alere Cholestech LDX												
Alere Cholestech LDX - waived	35	79.9	7.2	9.0	80	55 - 104	35	54.2	6.0	11.1	54	37 - 71
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	16	81.7	5.7	7.0	84	57 - 107	16	63.8	4.7	7.4	64	44 - 83
Beckman AU Direct HDL / LDL												
Beckman AU systems	18	85.6	4.5	5.3	86	59 - 112	18	66.1	3.2	4.8	67	46 - 86
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	79.2	5.3	6.7	80	55 - 103	13	62.2	4.5	7.2	64	43 - 81
Roche HDL Direct												
All Chemistry Instruments	14	94.6	3.2	3.4	94	66 - 124	14	73.8	2.5	3.3	74	51 - 96
Siemens Automated HDL												
Siemens Dimension	23	88.3	3.3	3.8	88	61 - 115	23	70.5	2.5	3.6	71	49 - 92
All Chemistry Instruments	26	88.5	3.2	3.6	88	61 - 116	26	70.7	2.5	3.5	71	49 - 92
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	17	91.8	4.3	4.6	91	64 - 120	17	66.8	2.0	3.0	67	46 - 87
All Chemistry Instruments	18	91.2	4.7	5.2	91	63 - 119	18	66.5	2.4	3.6	67	46 - 87

Cholesterol, HDL (mg/dL)

	Specimen CH-8						Specimen CH-9					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	161	83.4	6.9	8.3	84	58 - 109	160	59.1	5.2	8.7	60	41 - 77
All Dex-Sulfate 50,000 MW Methods	3	-	-	-	69	50 - 94	3	-	-	-	44	30 - 57
All Direct Methods	109	82.5	6.7	8.1	83	57 - 108	109	59.0	5.4	9.1	60	41 - 77
Alere Cholestech LDX												
Alere Cholestech LDX - waived	3	-	-	-	69	58 - 109	3	-	-	-	44	41 - 77
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	16	77.9	5.8	7.4	77	54 - 102	16	57.4	4.3	7.5	59	40 - 75
Beckman AU Direct HDL / LDL												
Beckman AU systems	18	82.9	4.4	5.3	83	58 - 108	18	57.7	3.0	5.2	58	40 - 76
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	76.6	4.7	6.1	77	53 - 100	13	54.5	3.6	6.6	55	38 - 71
Roche HDL Direct												
All Chemistry Instruments	14	90.6	3.2	3.5	90	63 - 118	14	65.0	2.4	3.6	65	45 - 85
Siemens Automated HDL												
Siemens Dimension	23	85.2	3.3	3.9	84	59 - 111	23	62.8	2.4	3.7	62	43 - 82
All Chemistry Instruments	26	85.3	3.1	3.6	86	59 - 111	26	63.0	2.3	3.6	63	44 - 82
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	18	88.1	4.2	4.8	88	61 - 115	18	59.1	3.3	5.6	59	41 - 77
All Chemistry Instruments	19	87.6	4.7	5.4	88	61 - 114	19	58.7	3.5	5.9	59	41 - 77

Cholesterol, HDL (mg/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	154	36.2	3.2	9.0	36	25 - 48
All Dex-Sulfate 50,000 MW Methods	3	-	-	-	19	13 - 25
All Direct Methods	106	36.1	3.4	9.5	36	25 - 47
Alere Cholestech LDX						
Alere Cholestech LDX - waived	3	-	-	-	19	25 - 48
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	16	36.0	2.9	8.1	36	25 - 47
Beckman AU Direct HDL / LDL						
Beckman AU systems	18	34.3	2.0	5.9	35	23 - 45
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	13	32.8	2.0	6.1	33	22 - 43
Roche HDL Direct						
All Chemistry Instruments	14	39.0	1.3	3.3	39	27 - 51
Siemens Automated HDL						
Siemens Dimension	23	39.1	1.3	3.4	39	27 - 51
All Chemistry Instruments	26	39.2	1.3	3.4	39	27 - 51
VITROS dHDL Slide						
VITROS 250,350,400 500,700,750,950	16	36.1	1.6	4.5	36	25 - 47
All Chemistry Instruments	17	35.9	1.7	4.8	36	25 - 47

Triglycerides (mg/dL)

	Specimen CH-6						Specimen CH-7					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	201	187.6	12.0	6.4	185	140 - 235	200	155.7	9.7	6.3	154	116 - 195
All Alfa Wassermann Reagents	27	187.9	6.0	3.2	187	140 - 235	27	157.4	5.2	3.3	157	118 - 197
All Horiba Pentra Reagents	13	188.9	10.0	5.3	187	141 - 237	13	157.8	8.7	5.5	155	118 - 198
All Roche Reagents	19	183.3	4.6	2.5	184	137 - 230	19	153.5	3.8	2.5	154	115 - 192
Alere Cholestech LDX												
Alere Cholestech LDX - waived	34	181.6	7.4	4.1	183	136 - 228	33	150.2	7.4	4.9	152	112 - 188
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	187.5	5.7	3.1	187	140 - 235	26	157.1	5.1	3.3	157	117 - 197
Beckman AU												
Beckman AU systems	26	185.8	5.8	3.1	189	139 - 233	26	153.8	4.8	3.1	156	115 - 193
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	188.9	10.0	5.3	187	141 - 237	13	157.8	8.7	5.5	155	118 - 198
Roche Integra												
Roche Integra	10	182.6	5.3	2.9	184	136 - 229	10	153.6	4.2	2.8	155	115 - 192
Siemens Healthcare												
Siemens Dimension	26	180.7	2.3	1.3	181	135 - 226	26	148.2	1.9	1.3	148	111 - 186
All Chemistry Instruments	27	180.7	2.3	1.2	181	135 - 226	27	148.1	1.9	1.3	148	111 - 186
VITROS												
VITROS 250,350,400 500,700,750,950	22	211.5	7.7	3.6	213	158 - 265	23	173.4	6.9	4.0	174	130 - 217
All Chemistry Instruments	23	211.4	7.5	3.6	213	158 - 265	24	173.4	6.7	3.9	174	130 - 217

Triglycerides (mg/dL)

	Specimen CH-8						Specimen CH-9					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	163	182.7	11.9	6.5	180	137 - 229	164	143.3	9.1	6.4	142	107 - 180
All Alfa Wassermann Reagents	26	182.8	5.6	3.1	183	137 - 229	27	145.5	5.0	3.4	146	109 - 182
All Horiba Pentra Reagents	13	183.0	8.9	4.9	181	137 - 229	13	145.9	6.6	4.5	145	109 - 183
All Roche Reagents	19	177.6	3.8	2.1	179	133 - 223	19	141.3	3.6	2.6	142	105 - 177
Alere Cholestech LDX												
Alere Cholestech LDX - waived	3	-	-	-	175	137 - 229	3	-	-	-	136	107 - 180
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	182.6	5.5	3.0	183	136 - 229	26	145.3	5.0	3.4	146	108 - 182
Beckman AU												
Beckman AU systems	26	180.3	5.5	3.0	182	135 - 226	26	141.2	4.9	3.5	143	105 - 177
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	183.0	8.9	4.9	181	137 - 229	13	145.9	6.6	4.5	145	109 - 183
Roche Integra												
Roche Integra	10	177.5	4.0	2.2	179	133 - 222	10	142.0	4.1	2.9	143	106 - 178
Siemens Healthcare												
Siemens Dimension	25	173.6	2.4	1.4	174	130 - 217	26	134.7	2.0	1.5	135	101 - 169
All Chemistry Instruments	27	174.0	3.2	1.8	174	130 - 218	27	134.6	2.0	1.5	135	100 - 169
VITROS												
VITROS 250,350,400 500,700,750,950	23	204.7	7.5	3.7	206	153 - 256	23	158.1	5.9	3.7	159	118 - 198
All Chemistry Instruments	24	204.7	7.4	3.6	206	153 - 256	24	158.0	5.8	3.6	159	118 - 198

Triglycerides (mg/dL)

Specimen CH-10

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	161	103.4	6.7	6.5	104	77 - 130
All Alfa Wassermann Reagents	26	107.4	3.5	3.2	107	80 - 135
All Horiba Pentra Reagents	13	104.1	4.7	4.5	105	78 - 131
All Roche Reagents	19	103.8	2.5	2.4	104	77 - 130
Alere Cholestech LDX						
Alere Cholestech LDX - waived	3	-	-	-	102	77 - 130
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	26	107.4	3.5	3.2	107	80 - 135
Beckman AU						
Beckman AU systems	26	102.5	3.5	3.5	104	76 - 129
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	13	104.1	4.7	4.5	105	78 - 131
Roche Integra						
Roche Integra	10	104.7	2.7	2.5	106	78 - 131
Siemens Healthcare						
Siemens Dimension	26	94.1	1.8	1.9	94	70 - 118
All Chemistry Instruments	27	94.1	1.8	1.9	94	70 - 118
VITROS						
VITROS 250,350,400 500,700,750,950	22	112.0	4.5	4.0	113	84 - 141
All Chemistry Instruments	23	111.9	4.4	3.9	112	83 - 140

Acetaminophen (µg/mL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	84.90	0.42	0.5	84.9	63.6 - 106.2	5	62.70	0.14	0.2	62.7	47.0 - 78.4
	Specimen CH-8						**Specimen CH-9**					
All Method	5	79.95	0.07	0.1	80.0	59.9 - 100.0	5	53.20	0.01	0.0	53.2	39.9 - 66.5
	Specimen CH-10											
All Method	5	28.10	1.70	6.0	28.1	21.0 - 35.2						

Carbamazepine (µg/mL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	11.70	0.71	6.0	11.7	8.7 - 14.7	5	8.95	0.64	7.1	9.0	6.7 - 11.2
	Specimen CH-8						**Specimen CH-9**					
All Method	5	11.45	0.78	6.8	11.5	8.5 - 14.4	5	7.75	0.21	2.7	7.8	5.8 - 9.7
	Specimen CH-10											
All Method	5	4.35	0.07	1.6	4.4	3.2 - 5.5						

Digoxin (ng/mL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	2.02	0.31	15.4	2.1	1.6 - 2.5	11	1.56	0.25	16.1	1.7	1.2 - 1.9
	Specimen CH-8						**Specimen CH-9**					
All Method	11	1.90	0.34	17.8	2.0	1.5 - 2.3	11	1.38	0.22	15.7	1.5	1.1 - 1.7
	Specimen CH-10											
All Method	11	0.86	0.09	10.4	0.9	0.6 - 1.1						

Gentamicin (µg/mL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	6.15	0.21	3.4	6.2	4.6 - 7.7	5	4.45	0.21	4.8	4.5	3.3 - 5.6
	Specimen CH-8						**Specimen CH-9**					
All Method	5	5.90	0.28	4.8	5.9	4.4 - 7.4	5	3.75	0.21	5.7	3.8	2.8 - 4.7
	Specimen CH-10											
All Method	5	1.55	0.07	4.6	1.6	1.1 - 2.0						

Lithium (mmol/L)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	1.90	0.14	7.4	1.9	1.5 - 2.3	5	1.30	0.01	0.0	1.3	1.0 - 1.6
	Specimen CH-8						**Specimen CH-9**					
All Method	5	1.80	0.01	0.0	1.8	1.4 - 2.2	5	1.10	0.01	0.0	1.1	0.8 - 1.4
	Specimen CH-10											
All Method	5	0.50	0.01	0.0	0.5	0.2 - 0.8						

Phenobarbital (µg/mL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	34.8	Not graded	3	-	-	-	24.9	Not graded
	Specimen CH-8						**Specimen CH-9**					
All Method	3	-	-	-	33.4	Not graded	3	-	-	-	21.7	Not graded
	Specimen CH-10											
All Method	3	-	-	-	9.6	Not graded						

Phenytoin (µg/mL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	10	23.60	1.22	5.2	23.7	17.7 - 29.5	10	18.20	0.89	4.9	18.3	13.6 - 22.8
	Specimen CH-8						**Specimen CH-9**					
All Method	10	22.48	1.01	4.5	22.5	16.8 - 28.1	10	15.78	0.53	3.4	16.0	11.8 - 19.8
	Specimen CH-10											
All Method	10	9.10	0.58	6.3	9.1	6.8 - 11.4						

Salicylate (mg/dL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	22.2	Not graded	3	-	-	-	17.1	Not graded
	Specimen CH-8						**Specimen CH-9**					
All Method	3	-	-	-	21.0	Not graded	3	-	-	-	14.7	Not graded
	Specimen CH-10											
All Method	3	-	-	-	8.5	Not graded						

Theophylline (µg/mL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	32.4	Not graded	3	-	-	-	25.6	Not graded
	Specimen CH-8						**Specimen CH-9**					
All Method	3	-	-	-	31.3	Not graded	3	-	-	-	22.0	Not graded
	Specimen CH-10											
All Method	3	-	-	-	13.3	Not graded						

Valproic Acid (µg/mL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	83.43	2.45	2.9	84.8	62.5 - 104.3	5	69.20	0.75	1.1	69.1	51.9 - 86.5
	Specimen CH-8						**Specimen CH-9**					
All Method	5	80.97	2.34	2.9	81.9	60.7 - 101.3	5	62.77	0.83	1.3	62.5	47.0 - 78.5
	Specimen CH-10											
All Method	5	43.93	1.12	2.5	43.5	32.9 - 55.0						

Vancomycin (µg/mL)

	Specimen CH-6						Specimen CH-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	39.55	3.04	7.7	39.6	29.6 - 49.5	5	27.90	1.56	5.6	27.9	20.9 - 34.9
	Specimen CH-8						**Specimen CH-9**					
All Method	5	37.25	2.19	5.9	37.3	27.9 - 46.6	5	23.20	0.14	0.6	23.2	17.4 - 29.0
	Specimen CH-10											
All Method	5	8.20	0.28	3.4	8.2	6.1 - 10.3						

Apolipoprotein A1 (mg/dL)

	Specimen LP-3						Specimen LP-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	288	Not graded	2	-	-	-	108	Not graded

Apolipoprotein B (mg/dL)

	Specimen LP-3						Specimen LP-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	6	113.5	19.1	16.8	114	79 - 148	6	38.5	3.5	9.2	39	26 - 51

Neonatal Bilirubin, Total (mg/dL)

	Specimen NB-6						Specimen NB-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	29	7.16	0.42	5.8	7.1	5.7 - 8.6	29	0.06	0.11	176.4	0.0	0.0 - 0.5
No Reagent Required												
Bilirubinometer / Unistat	16	7.17	0.46	6.4	7.2	5.7 - 8.7	16	0.00	0.01	0.0	0.0	0.0 - 0.4
All Chemistry Instruments	21	7.18	0.45	6.3	7.2	5.7 - 8.7	21	0.06	0.12	218.4	0.0	0.0 - 0.5

	Specimen NB-8						Specimen NB-9					
All Method	29	17.97	0.92	5.1	18.0	14.3 - 21.6	29	0.07	0.14	182.6	0.0	0.0 - 0.5
No Reagent Required												
Bilirubinometer / Unistat	16	18.41	0.78	4.2	18.6	14.7 - 22.1	16	0.00	0.01	0.0	0.0	0.0 - 0.4
All Chemistry Instruments	21	18.15	0.90	4.9	18.4	14.5 - 21.8	21	0.07	0.15	213.0	0.0	0.0 - 0.5

	Specimen NB-10					
All Method	29	11.02	0.75	6.8	11.0	8.8 - 13.3
No Reagent Required						
Bilirubinometer / Unistat	16	11.32	0.58	5.1	11.4	9.0 - 13.6
All Chemistry Instruments	21	11.28	0.57	5.0	11.3	9.0 - 13.6

Bilirubin, Direct (mg/dL)

	Specimen NB-6						Specimen NB-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	10	1.68	0.15	8.8	1.7	1.3 - 2.0	10	0.06	0.08	145.0	0.0	0.0 - 0.3
	Specimen NB-8						**Specimen NB-9**					
All Method	10	4.16	0.28	6.8	4.2	3.5 - 4.8	10	0.04	0.07	164.6	0.0	0.0 - 0.2
	Specimen NB-10											
All Method	10	4.78	0.20	4.3	4.8	4.3 - 5.2						

Blood Gases – pH

	Specimen BG-6						Specimen BG-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	6.910	0.010	0.1	6.91	6.87 - 6.95	11	7.330	0.045	0.6	7.31	7.29 - 7.37
	Specimen BG-8						**Specimen BG-9**					
All Method	11	7.304	0.009	0.1	7.30	7.26 - 7.35	11	7.310	0.007	0.1	7.31	7.27 - 7.35
	Specimen BG-10											
All Method	11	7.480	0.001	0.0	7.48	7.44 - 7.52						

Blood Gases - pCO_2 (mmHg)

	Specimen BG-6					Specimen BG-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	70.04	3.41	4.9	68.8	64.4 - 75.7	11	48.98	2.04	4.2	48.6	43.9 - 54.0
	Specimen BG-8						**Specimen BG-9**					
All Method	11	44.14	1.46	3.3	43.6	39.1 - 49.2	11	49.70	1.08	2.2	49.9	44.7 - 54.7
	Specimen BG-10											
All Method	11	18.72	0.99	5.3	18.5	13.7 - 23.8						

Blood Gases - pO_2 (mmHg)

	Specimen BG-6					Specimen BG-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	59.80	6.18	10.3	59.0	41.2 - 78.4	11	189.80	19.83	10.4	195.0	130.3 - 249.3
	Specimen BG-8						**Specimen BG-9**					
All Method	11	170.60	6.19	3.6	171.0	152.0 - 189.2	11	197.20	6.42	3.3	197.0	177.9 - 216.5
	Specimen BG-10											
All Method	11	163.80	4.32	2.6	161.0	150.8 - 176.8						

Blood Gases – Ionized Calcium (mmol/L)

One participant reported results for Blood Gases-Ionized Calcium. The vendor mean assay values for specimens BG-6 through BG-10 are: >2.5 mmol/L, 1.3 mmol/L, 0.95 mmol/L, 1.3 mmol/L, and 0.78 mmolL, respectively.

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-6 through BG-10 are: 111 mmol/L, 90 mmol/L, 97 mmol/L, 90 mmol/L, and 105 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-6 through BG-10 are: 3.4 mmol/L, 4.4 mmol/L, 4.6 mmol/L, 4.4 mmol/L, and 6.3 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-6 through BG-10 are: 132 mmol/L, 138 mmol/L, 156 mmol/L, 138 mmol/L, and 150 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

	Specimen BG-6						Specimen BG-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	6	4.97	0.06	1.2	5.0	4.7 - 5.2	6	0.70	0.01	0.0	0.7	0.6 - 0.8
	Specimen BG-8						**Specimen BG-9**					
All Method	6	2.23	0.06	2.6	2.2	2.0 - 2.5	6	0.70	0.01	0.0	0.7	0.6 - 0.8
	Specimen BG-10											
All Method	6	1.13	0.06	5.1	1.1	0.9 - 1.4						

Afinion Glycohemoglobin (percent)

	Specimen AFN-3						Specimen AFN-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	85	8.04	0.15	1.8	8.0	7.5 - 8.6	85	6.27	0.12	2.0	6.3	5.8 - 6.7
All Alere Afinion Analyzers	83	8.04	0.15	1.8	8.0	7.5 - 8.6	83	6.27	0.12	1.9	6.3	5.8 - 6.7
Alere Afinion AS100	77	8.04	0.15	1.8	8.0	7.5 - 8.6	77	6.27	0.12	1.9	6.3	5.8 - 6.7

Glycohemoglobin (percent)

	Specimen GH-3						Specimen GH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	138	5.65	0.26	4.7	5.7	5.3 - 6.0	135	10.87	0.42	3.8	10.8	10.2 - 11.6
All Hemoglobin A1c Methods	138	5.65	0.26	4.7	5.7	5.3 - 6.0	135	10.87	0.42	3.8	10.8	10.2 - 11.6
All Roche Methods	12	5.33	0.22	4.2	5.3	5.0 - 5.7	12	10.77	0.63	5.9	10.8	10.1 - 11.5
All TOSOH Methods	20	5.56	0.08	1.4	5.6	5.2 - 5.9	20	10.36	0.17	1.6	10.3	9.7 - 11.0
Beckman AU A1c	10	5.37	0.21	3.8	5.4	5.0 - 5.7	10	11.06	0.37	3.4	11.1	10.3 - 11.8
Siemens DCA Vantage	62	5.78	0.17	3.0	5.8	5.4 - 6.2	60	10.92	0.33	3.0	10.8	10.2 - 11.6
Siemens Dimension HB1C	15	5.67	0.24	4.3	5.7	5.3 - 6.1	15	10.92	0.38	3.4	11.0	10.2 - 11.6
TOSOH G8	20	5.56	0.08	1.4	5.6	5.2 - 5.9	20	10.36	0.17	1.6	10.3	9.7 - 11.0

Whole Blood Glucose (mg/dL)

	Specimen WBG-6						Specimen WBG-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	280	201.8	25.8	12.8	206	161 - 243	279	114.5	17.9	15.6	114	91 - 138
All Abbott Methods	37	192.4	12.6	6.5	191	153 - 231	33	102.5	6.1	5.9	103	82 - 124
All Arkray Methods	16	235.7	35.0	14.8	219	188 - 283	16	130.9	8.1	6.2	129	104 - 158
All Bayer Methods	31	164.4	12.1	7.3	162	131 - 198	30	86.1	6.4	7.5	87	68 - 104
All Hemocue Methods	66	218.4	7.2	3.3	219	174 - 263	67	136.9	6.1	4.5	137	109 - 165
All Lifescan Methods	16	218.3	21.6	9.9	219	174 - 262	16	116.9	8.8	7.5	116	93 - 141
All Roche Methods	29	205.9	4.0	2.0	206	164 - 248	30	116.0	2.8	2.5	116	92 - 140
Abbott FreeStyle Lite/Freedom Lite	10	187.3	11.0	5.9	187	149 - 225	10	103.7	4.8	4.6	104	82 - 125
Abbott FreeStyle Precision Pro	10	186.0	11.1	6.0	185	148 - 224	10	98.4	6.9	7.1	96	78 - 119
Abbott Precision XceedPro	17	195.4	9.8	5.0	196	156 - 235	17	103.1	4.5	4.3	103	82 - 124
Arkray Platinum	16	235.7	35.0	14.8	219	188 - 283	16	130.9	8.1	6.2	129	104 - 158
Bayer Contour	31	164.4	12.1	7.3	162	131 - 198	30	86.1	6.4	7.5	87	68 - 104
HemoCue Glucose 201	65	218.3	7.2	3.3	218	174 - 262	66	136.9	6.2	4.5	137	109 - 165
Home Diagnostics True Balance / TrueTrack	13	447.5	29.9	6.7	455	358 - 538	13	278.9	18.9	6.8	282	223 - 335
Lifescan One Touch Ultra/2/Mini	13	226.4	13.9	6.1	225	181 - 272	13	119.9	6.2	5.1	118	95 - 144
Medline EvenCare G2 / G3	12	210.3	12.1	5.8	209	168 - 253	12	118.8	5.2	4.4	119	95 - 143
NOVA Biomedical StatStrip	20	172.4	7.7	4.5	172	137 - 207	21	99.2	6.2	6.2	99	79 - 120
Quintet / AC	30	209.8	10.7	5.1	210	167 - 252	29	113.0	6.3	5.6	112	90 - 136
Roche Accu-Chek Aviva	10	206.2	4.3	2.1	207	164 - 248	10	116.4	2.8	2.4	117	93 - 140
Roche Accu-Chek Inform II	10	205.5	4.9	2.4	205	164 - 247	10	115.5	3.4	3.0	116	92 - 139
Roche Accu-Chek Performa	15	207.1	5.4	2.6	207	165 - 249	15	116.3	2.6	2.2	116	93 - 140
True Metrix Pro	16	181.4	32.5	17.9	178	145 - 218	15	99.1	5.7	5.7	99	79 - 119

Whole Blood Glucose (mg/dL)

	Specimen WBG-8						Specimen WBG-9					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	53.0	11.6	21.8	50	41 - 65	12	380.8	26.0	6.8	373	304 - 457
All Abbott Methods	2	-	-	-	45	33 - 57	2	-	-	-	383	306 - 460
All Hemocue Methods	1	-	-	-	83	66 - 100	1	-	-	-	366	292 - 440
All Lifescan Methods	4	-	-	-	45	34 - 59	4	-	-	-	409	324 - 487
All Roche Methods	3	-	-	-	59	47 - 72	3	-	-	-	363	294 - 442
Abbott Precision XceedPro	1	-	-	-	45	41 - 65	1	-	-	-	356	304 - 457
HemoCue Glucose 201	1	-	-	-	83	41 - 65	1	-	-	-	366	304 - 457
Lifescan One Touch Ultra/2/Mini	4	-	-	-	45	41 - 65	4	-	-	-	409	304 - 457
Medline EvenCare G2 / G3	1	-	-	-	52	41 - 65	1	-	-	-	363	304 - 457
Roche Accu-Chek Inform II	2	-	-	-	60	41 - 65	2	-	-	-	371	304 - 457
Roche Accu-Chek Performa	1	-	-	-	59	41 - 65	1	-	-	-	363	304 - 457
True Metrix Pro	1	-	-	-	46	41 - 65	1	-	-	-	347	304 - 457

Specimen WBG-10

Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	302.5	24.6	8.1	299	242 - 363
All Abbott Methods	2	-	-	-	298	238 - 357
All Hemocue Methods	1	-	-	-	298	238 - 358
All Lifescan Methods	4	-	-	-	323	256 - 385
All Roche Methods	3	-	-	-	289	231 - 348
Abbott Precision XceedPro	1	-	-	-	269	242 - 363
HemoCue Glucose 201	1	-	-	-	298	242 - 363
Lifescan One Touch Ultra/2/Mini	4	-	-	-	323	242 - 363
Medline EvenCare G2 / G3	1	-	-	-	326	242 - 363
Roche Accu-Chek Inform II	2	-	-	-	290	242 - 363
Roche Accu-Chek Performa	1	-	-	-	289	242 - 363
True Metrix Pro	1	-	-	-	260	242 - 363

C-Peptide (ng/mL)

	Specimen CIP-3						Specimen CIP-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	7.170	0.238	3.3	7.10	6.69 - 7.65	5	4.096	0.200	4.9	4.10	3.69 - 4.50

Insulin (μU/mL)

	Specimen CIP-3						Specimen CIP-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	13	55.83	12.99	23.3	55.6	29.8 - 81.9	13	33.38	8.33	25.0	37.2	16.7 - 50.1
Beckman ACCESS / 2 / DxI	6	53.08	3.00	5.7	53.9	47.0 - 59.1	6	37.77	2.16	5.7	38.5	33.4 - 42.1

Parathyroid Hormone, Intact (pg/mL)

	Specimen CIP-3						Specimen CIP-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	36	45.6	15.8	34.6	47	14 - 78	35	15.9	7.0	43.9	15	1 - 30
All TOSOH Instruments	8	55.4	13.4	24.3	57	28 - 83	8	18.3	5.4	29.8	19	7 - 30
Beckman ACCESS / 2 / DxI	15	38.2	10.5	27.6	37	17 - 60	15	12.0	5.7	47.2	11	0 - 24

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

	Specimen CIP-3						Specimen CIP-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	108	55.82	11.98	21.5	56.8	31.8 - 79.8	106	29.09	6.96	23.9	28.9	15.1 - 43.1
All Roche Instruments	12	51.93	14.18	27.3	49.6	23.5 - 80.3	12	24.83	6.35	25.6	25.0	12.1 - 37.6
All TOSOH Instruments	17	70.09	4.25	6.1	70.3	61.5 - 78.6	17	40.44	2.69	6.7	40.9	35.0 - 45.9
Abbott Architect	8	52.71	5.88	11.2	53.8	40.9 - 64.5	8	26.68	3.42	12.8	27.7	19.8 - 33.6
Beckman ACCESS / 2 / DxI	45	57.57	6.01	10.4	57.0	45.5 - 69.6	45	29.03	3.38	11.7	28.9	22.2 - 35.8
Qualigen FastPack	7	34.74	9.77	28.1	35.1	15.2 - 54.3	7	22.79	6.56	28.8	23.1	9.6 - 35.9
Roche cobas e 411	7	47.91	12.28	25.6	41.8	23.3 - 72.5	7	23.46	6.61	28.2	20.1	10.2 - 36.7
Roche cobas e 601/e 602	5	57.54	16.10	28.0	65.9	25.3 - 89.8	5	26.74	6.12	22.9	30.4	14.4 - 39.0
Siemens Dimension	6	41.32	2.09	5.1	41.9	37.1 - 45.5	6	20.20	2.01	10.0	20.2	16.1 - 24.3
TOSOH AIA PACK	6	69.25	3.77	5.4	70.3	61.7 - 76.8	6	39.67	2.23	5.6	39.9	35.2 - 44.2
TOSOH ST AIA PACK	11	70.55	4.60	6.5	71.0	61.3 - 79.8	11	40.86	2.93	7.2	40.9	35.0 - 46.8

Bioavailable Testosterone (ng/dL)

	Specimen SHB-3						Specimen SHB-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	187	Not graded	2	-	-	-	162	Not graded

Free Testosterone (pg/mL)

	Specimen SHB-3						Specimen SHB-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	7.80	1.56	19.9	7.8	4.6 - 11.0	5	6.35	1.48	23.4	6.4	3.3 - 9.4

Sex Hormone Binding Globulin (SHBG) (nmol/L)

	Specimen SHB-3						Specimen SHB-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	15	93.667	11.915	12.7	93.00	57.92 - 129.42	15	61.699	9.013	14.6	62.00	34.66 - 88.74
Beckman ACCESS / 2 / DxI	10	97.360	10.562	10.8	95.75	65.67 - 129.05	10	64.680	8.083	12.5	62.80	40.43 - 88.93

Testosterone (ng/dL)

	Specimen SHB-3						Specimen SHB-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	24	761.5	216.7	28.5	679	533 - 990	24	475.3	112.9	23.8	426	332 - 618
All Siemens Immulite Instruments	5	1214.5	105.4	8.7	1215	850 - 1579	5	712.5	0.7	0.1	713	498 - 927
Beckman ACCESS / 2 / DxI	10	651.9	41.6	6.4	656	456 - 848	10	415.1	16.1	3.9	415	290 - 540
Siemens Immulite/1000	5	1214.5	105.4	8.7	1215	850 - 1579	5	712.5	0.7	0.1	713	498 - 927

BNP (pg/mL)

Method	Labs	Mean	SD	CV	Median	Range
Specimen CK-6						
All Method	32	1088.28	245.89	22.6	481.0	596.5 - 1580.1
Alere Triage	17	487.29	81.73	16.8	466.0	323.8 - 650.8
i-STAT - moderate	10	1194.25	75.83	6.3	1196.0	895.6 - 1492.9
Specimen CK-7						
All Method	32	3858.00	914.54	23.7	1705.0	2028.9 - 5687.1
Alere Triage	17	1671.76	249.03	14.9	1640.0	1173.7 - 2169.9
i-STAT - moderate	10	4247.50	322.13	7.6	4302.0	3185.6 - 5309.4
Specimen CK-8						
All Method	32	4966.00	68.00	1.4	3120.0	3724.5 - 6207.5
Alere Triage	17	2791.43	682.02	24.4	2440.0	1427.3 - 4155.5
i-STAT - moderate	10	4966.00	68.00	1.4	5000.0	3724.5 - 6207.5
Specimen CK-9						
All Method	32	107.50	5.45	5.1	102.0	80.6 - 134.4
Alere Triage	17	86.67	37.84	43.7	70.4	10.9 - 162.4
i-STAT - moderate	10	107.50	5.45	5.1	106.5	80.6 - 134.4
Specimen CK-10						
All Method	32	2498.75	126.06	5.0	1100.0	1874.0 - 3123.5
Alere Triage	17	959.71	147.55	15.4	952.0	664.6 - 1254.9
i-STAT - moderate	10	2498.75	126.06	5.0	2484.5	1874.0 - 3123.5

CK-MB (ng/mL)

Method	Labs	Mean	SD	CV	Median	Range
Specimen CK-6						
All Method	23	19.34	3.88	20.1	14.1	7.6 - 31.0
Alere Triage	15	6.55	1.59	24.3	6.7	1.7 - 11.4
Beckman ACCESS / 2 / DxI	10	22.78	0.72	3.2	22.9	20.6 - 25.0
Specimen CK-7						
All Method	23	57.82	11.38	19.7	39.9	23.6 - 92.0
Alere Triage	15	21.46	5.75	26.8	20.9	4.2 - 38.8
Beckman ACCESS / 2 / DxI	10	66.69	1.90	2.9	66.9	60.9 - 72.4
Specimen CK-8						
All Method	23	109.45	22.45	20.5	78.0	42.0 - 176.9
Alere Triage	15	38.55	9.23	23.9	37.9	10.8 - 66.3
Beckman ACCESS / 2 / DxI	10	126.14	1.91	1.5	125.7	120.4 - 131.9
Specimen CK-9						
All Method	23	7.52	1.51	20.0	5.6	2.9 - 12.1
Alere Triage	15	2.25	0.59	26.4	2.2	0.4 - 4.1
Beckman ACCESS / 2 / DxI	10	8.74	0.47	5.4	8.8	7.3 - 10.2
Specimen CK-10						
All Method	23	31.85	6.00	18.8	23.1	13.8 - 49.9
Alere Triage	15	11.71	1.75	14.9	11.5	6.4 - 17.0
Beckman ACCESS / 2 / DxI	10	36.82	1.23	3.3	36.4	33.1 - 40.5

D-Dimer (ng/mL)

	Specimen CK-6						Specimen CK-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	27	269.5	13.4	5.0	269	188 - 351	27	405.0	14.1	3.5	726	283 - 527
Alere Triage	21	278.5	42.9	15.4	269	192 - 365	21	743.5	59.3	8.0	728	520 - 967
Instrumentation Laborartory (IL) ACL Series	5	269.5	13.4	5.0	270	188 - 351	5	405.0	14.1	3.5	405	283 - 527
	Specimen CK-8						**Specimen CK-9**					
All Method	16	-	-	-	1220	452 - 840	16	-	-	-	104	158 - 294
Alere Triage	14	1253.6	123.7	9.9	1230	877 - 1630	15	108.1	11.4	10.5	103	75 - 141
Instrumentation Laborartory (IL) ACL Series	1	-	-	-	646	452 - 840	1	-	-	-	226	158 - 294
	Specimen CK-10											
All Method	16	-	-	-	456	203 - 377						
Alere Triage	15	472.4	65.2	13.8	468	330 - 615						
Instrumentation Laborartory (IL) ACL Series	1	-	-	-	290	203 - 377						

D-Dimer (µgFEU/mL)

	Specimen CK-6						Specimen CK-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	8	0.2588	0.0230	8.9	0.255	0.181 - 0.337	8	0.6825	0.0456	6.7	0.680	0.477 - 0.888
Beckman AU systems	8	0.2588	0.0230	8.9	0.255	0.181 - 0.337	8	0.6825	0.0456	6.7	0.680	0.477 - 0.888
	Specimen CK-8						**Specimen CK-9**					
All Method	8	1.2688	0.0485	3.8	1.245	0.888 - 1.650	8	0.1175	0.0139	11.8	0.120	0.082 - 0.153
Beckman AU systems	8	1.2688	0.0485	3.8	1.245	0.888 - 1.650	8	0.1175	0.0139	11.8	0.120	0.082 - 0.153
	Specimen CK-10											
All Method	8	0.4125	0.0310	7.5	0.405	0.288 - 0.537						
Beckman AU systems	8	0.4125	0.0310	7.5	0.405	0.288 - 0.537						

Myoglobin (ng/mL)

Method	Labs	Mean	SD	CV	Median	Range
Specimen CK-6						
All Method	16	85.53	15.56	18.2	94.1	54.4 - 116.7
Alere Triage	11	92.35	14.97	16.2	98.4	62.4 - 122.3
Specimen CK-7						
All Method	16	253.05	54.27	21.4	232.0	144.5 - 361.6
Alere Triage	11	235.45	47.09	20.0	232.0	141.2 - 329.7
Specimen CK-8						
All Method	16	473.05	105.11	22.2	377.0	262.8 - 683.3
Alere Triage	11	368.11	64.00	17.4	370.0	240.1 - 496.2
Specimen CK-9						
All Method	16	33.10	4.38	13.2	35.9	23.1 - 43.1
Alere Triage	11	34.89	8.91	25.5	36.2	17.0 - 52.8
Specimen CK-10						
All Method	16	141.93	28.38	20.0	145.3	85.1 - 198.7
Alere Triage	11	145.73	24.56	16.9	154.0	96.5 - 194.9

NT-proBNP (pg/mL)

Method	Labs	Mean	SD	CV	Median	Range
Specimen CK-6						
All Method	12	463.8	236.8	51.1	392	0 - 938
Roche cobas e 601/e 602	5	711.5	3.5	0.5	712	533 - 890
Siemens Dimension NT-proBNP	5	298.7	99.5	33.3	310	99 - 498
Specimen CK-7						
All Method	12	2019.8	791.6	39.2	1997	436 - 3604
Roche cobas e 601/e 602	5	2809.0	56.6	2.0	2809	2106 - 3512
Siemens Dimension NT-proBNP	5	1493.7	462.3	31.0	1396	569 - 2419
Specimen CK-8						
All Method	12	3858.7	1851.2	48.0	2985	156 - 7562
Roche cobas e 601/e 602	4	-	-	-	5985	156 - 7562
Siemens Dimension NT-proBNP	5	2795.5	268.0	9.6	2796	2096 - 3495
Specimen CK-9						
All Method	12	33.0	22.9	69.3	24	0 - 79
Roche cobas e 601/e 602	4	-	-	-	59	0 - 79
Siemens Dimension NT-proBNP	5	20.0	5.7	28.3	20	8 - 32
Specimen CK-10						
All Method	12	824.3	488.6	59.3	651	0 - 1802
Roche cobas e 601/e 602	4	-	-	-	1376	0 - 1802
Siemens Dimension NT-proBNP	5	548.5	145.0	26.4	549	258 - 839

Troponin I (ng/mL)

Method	Specimen CK-6 Labs	Mean	SD	CV	Median	Range	Specimen CK-7 Labs	Mean	SD	CV	Median	Range
All Method	48	1.334	1.506	112.9	0.86	0.00 - 4.35	48	5.957	5.151	86.5	4.04	0.00 - 16.26
All HS Troponin I Methods	13	5.429	4.231	77.9	3.87	0.00 - 13.90	13	21.952	13.511	61.6	16.66	0.00 - 48.98
All Non-HS Troponin I Methods	17	0.876	0.065	7.4	0.89	0.61 - 1.14	17	3.752	0.466	12.4	3.84	2.62 - 4.88
Alere Triage	15	0.416	0.121	29.0	0.37	0.17 - 0.66	15	3.518	1.053	29.9	3.25	1.41 - 5.63
Beckman ACCESS / 2 / DxI	10	0.912	0.046	5.1	0.94	0.63 - 1.19	10	4.106	0.182	4.4	4.15	2.87 - 5.34
Siemens Dimension	10	0.828	0.058	7.1	0.83	0.57 - 1.08	10	3.252	0.171	5.3	3.25	2.27 - 4.23

Method	Specimen CK-8 Labs	Mean	SD	CV	Median	Range	Specimen CK-9 Labs	Mean	SD	CV	Median	Range
All Method	48	15.208	13.447	88.4	9.44	0.00 - 42.11	48	0.102	0.100	98.0	0.05	0.00 - 0.31
All HS Troponin I Methods	13	47.035	21.619	46.0	35.12	3.79 - 90.28	13	0.345	0.314	90.9	0.29	0.00 - 0.98
All Non-HS Troponin I Methods	17	8.371	1.589	19.0	9.21	5.19 - 11.55	17	0.056	0.020	35.3	0.06	0.01 - 0.10
Alere Triage	15	8.337	1.697	20.4	8.01	4.94 - 11.74	15	0.050	0.001	0.0	0.05	0.03 - 0.07
Beckman ACCESS / 2 / DxI	10	9.623	0.432	4.5	9.60	6.73 - 12.51	10	0.070	0.009	13.5	0.07	0.04 - 0.10
Siemens Dimension	10	6.588	0.358	5.4	6.45	4.61 - 8.57	10	0.035	0.010	30.0	0.04	0.01 - 0.06

Method	Specimen CK-10 Labs	Mean	SD	CV	Median	Range
All Method	48	2.689	2.548	94.8	1.79	0.00 - 7.79
All HS Troponin I Methods	13	11.013	7.865	71.4	8.00	0.00 - 26.75
All Non-HS Troponin I Methods	17	1.823	0.144	7.9	1.83	1.27 - 2.37
Alere Triage	15	1.317	0.278	21.1	1.22	0.76 - 1.88
Beckman ACCESS / 2 / DxI	10	1.915	0.080	4.2	1.93	1.34 - 2.49
Siemens Dimension	10	1.703	0.110	6.4	1.72	1.19 - 2.22

Troponin T (ng/mL)

	Specimen CK-6						Specimen CK-7					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	0.2275	0.0898	39.5	0.228	0.047 - 0.408	5	0.5785	0.2991	51.7	0.579	0.000 - 1.177
	Specimen CK-8						**Specimen CK-9**					
All Method	5	0.9725	0.4490	46.2	0.973	0.074 - 1.871	5	0.1075	0.0629	58.5	0.108	0.000 - 0.234
	Specimen CK-10											
All Method	5	0.3435	0.1803	52.5	0.344	0.000 - 0.705						

PSA (ng/mL)

	Specimen PS-3						Specimen PS-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	110	7.094	1.034	14.6	7.16	4.96 - 9.23	111	13.670	2.355	17.2	13.90	9.56 - 17.78
All Roche Instruments	10	7.967	0.766	9.6	8.02	5.57 - 10.36	10	15.063	1.933	12.8	15.33	10.54 - 19.59
All TOSOH Instruments	29	5.969	0.278	4.7	6.03	4.17 - 7.77	29	11.165	0.430	3.9	11.12	7.81 - 14.52
Beckman ACCESS / 2 / DxI	15	7.979	0.499	6.3	7.86	5.58 - 10.38	15	15.647	0.992	6.3	15.49	10.95 - 20.35
Beckman ACCESS Hybritech PSA	18	7.819	0.422	5.4	7.75	5.47 - 10.17	18	15.264	0.820	5.4	15.02	10.68 - 19.85
Siemens Dimension TPSA	16	7.066	0.512	7.2	6.91	4.94 - 9.19	16	13.587	1.114	8.2	13.38	9.51 - 17.67
TOSOH AIA PACK	13	6.022	0.288	4.8	6.10	4.21 - 7.83	13	11.200	0.311	2.8	11.12	7.84 - 14.56
TOSOH ST AIA PACK	16	5.926	0.271	4.6	5.99	4.14 - 7.71	16	11.137	0.516	4.6	11.16	7.79 - 14.48

Beta-2 microglobulin

	Specimen TM-3						Specimen TM-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	1.990	0.375	18.8	1.96	0.86 - 3.12	5	2.832	0.393	13.9	2.70	1.65 - 4.02

CA 125 (U/mL)

	Specimen TM-3						Specimen TM-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	14	88.1	15.9	18.0	118	56 - 120	14	128.3	21.5	16.7	171	85 - 172
All TOSOH Instruments	11	126.8	7.7	6.1	129	88 - 165	11	184.6	9.5	5.1	188	129 - 241
TOSOH ST AIA PACK	10	126.8	7.7	6.1	129	88 - 165	10	184.6	9.5	5.1	188	129 - 241

CA 15-3 (U/mL)

	Specimen TM-3						Specimen TM-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	56.9	33.5	58.9	47	0 - 124	11	70.3	37.1	52.7	66	0 - 145

CA 19-9 (U/mL)

	Specimen TM-3						Specimen TM-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	8	88.0	32.3	36.7	78	23 - 153	8	121.2	44.0	36.3	106	33 - 210

CA 27/29 (U/mL)

	Specimen TM-3						Specimen TM-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	13	242.1	27.4	11.3	250	169 - 315	13	353.4	21.2	6.0	363	247 - 460
All TOSOH Instruments	11	242.1	27.4	11.3	250	169 - 315	11	353.4	21.2	6.0	363	247 - 460
TOSOH ST AIA PACK	10	238.6	27.5	11.5	246	166 - 311	10	351.4	22.1	6.3	359	246 - 457

CEA (ng/mL)

	Specimen TM-3						Specimen TM-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	13	20.00	4.41	22.0	21.6	14.0 - 26.0	13	30.24	7.66	25.3	31.1	21.1 - 39.4
All TOSOH Instruments	11	21.36	1.17	5.5	21.6	14.9 - 27.8	11	31.19	0.94	3.0	31.1	21.8 - 40.6
TOSOH ST AIA PACK	10	21.31	1.25	5.9	21.6	14.9 - 27.8	10	31.13	0.98	3.2	30.9	21.7 - 40.5

Free PSA (ng/mL)

	Specimen TM-3						Specimen TM-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	5.124	0.848	16.6	5.57	3.58 - 6.67	11	6.916	1.320	19.1	7.70	4.84 - 9.00

PSA (ng/mL)

	Specimen TM-3						Specimen TM-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	29	5.193	1.004	19.3	5.10	3.63 - 6.76	29	6.800	1.469	21.6	6.76	4.76 - 8.84

Thyroglobulin (ng/mL)

	Specimen TM-3						Specimen TM-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	62.80	35.73	56.9	44.1	0.0 - 134.3	5	96.43	55.05	57.1	64.7	0.0 - 206.6

CEA (ng/mL)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	10.64	1.51	14.2	11.9	7.4 - 13.9	12	20.26	1.61	8.0	21.8	14.1 - 26.4
TOSOH AIA PACK	10	12.16	0.38	3.1	12.3	8.5 - 15.9	10	22.60	0.97	4.3	22.5	15.8 - 29.4

DHEA-S (µg/dL)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	13	198.55	31.02	15.6	185.0	138.9 - 258.2	13	307.98	36.47	11.8	304.0	215.5 - 400.4
Beckman ACCESS / 2 / DxI	8	191.76	18.79	9.8	187.5	134.2 - 249.3	8	300.66	20.78	6.9	297.0	210.4 - 390.9

Estradiol (pg/mL)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	28	225.2	52.7	23.4	208	119 - 331	28	368.5	89.1	24.2	343	190 - 547
Beckman ACCESS / 2 / DxI	12	209.0	22.5	10.8	207	164 - 254	12	333.9	32.9	9.9	331	268 - 400

Ferritin (ng/mL)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	40	99.7	11.7	11.7	78	69 - 130	40	167.9	20.8	12.4	131	117 - 219
All Roche Instruments	10	107.7	4.0	3.7	109	75 - 141	10	183.4	7.5	4.1	184	128 - 239
All TOSOH Instruments	21	69.3	5.2	7.5	70	48 - 91	20	119.8	5.3	4.4	120	83 - 156
Beckman ACCESS / 2 / DxI	27	73.9	4.6	6.3	74	51 - 97	27	125.7	7.5	5.9	126	88 - 164
Siemens Dimension	11	103.3	4.2	4.1	103	72 - 135	11	172.1	6.3	3.7	168	120 - 224
TOSOH ST AIA PACK	14	69.5	2.7	3.8	70	48 - 91	14	119.4	3.9	3.2	120	83 - 156

Folate (ng/mL)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	55	1.94	0.59	30.4	2.4	0.9 - 3.0	55	3.63	1.05	28.8	4.6	2.5 - 4.8
All Roche Instruments	10	2.07	0.12	5.9	2.0	1.0 - 3.1	10	3.38	0.55	16.3	3.4	2.3 - 4.4
All Siemens Dimension Instruments	12	1.72	0.30	17.4	1.6	0.7 - 2.8	12	2.72	0.26	9.5	2.6	1.7 - 3.8
All TOSOH Instruments	12	2.08	0.66	31.7	1.8	1.0 - 3.1	12	3.30	0.97	29.4	3.0	2.3 - 4.3
Abbott Architect	10	2.22	1.04	46.6	2.6	1.2 - 3.3	10	5.16	0.42	8.2	5.0	3.6 - 6.8
Beckman ACCESS / 2 / DxI	23	2.57	0.26	10.0	2.5	1.5 - 3.6	23	5.03	0.44	8.7	5.0	3.5 - 6.6
Siemens Dimension	10	1.77	0.33	18.4	1.8	0.7 - 2.8	10	2.74	0.29	10.7	2.6	1.7 - 3.8
TOSOH AIA PACK	10	2.24	0.75	33.5	1.8	1.2 - 3.3	10	3.60	1.12	31.1	3.0	2.5 - 4.7

FSH (mIU/mL)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	29	23.08	2.54	11.0	22.7	17.3 - 28.9	29	38.90	4.02	10.3	38.7	29.1 - 48.7
Beckman ACCESS / 2 / DxI	12	24.89	1.96	7.9	25.1	18.6 - 31.2	12	41.76	3.05	7.3	41.7	31.3 - 52.2

Homocysteine (μmol/L)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	22.2	2.0	9.2	23	15 - 29	11	38.2	3.6	9.3	39	26 - 50

LH (mIU/mL)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	24	20.07	3.16	15.8	19.0	13.7 - 26.4	24	36.33	5.44	15.0	35.3	25.4 - 47.3
Beckman ACCESS / 2 / DxI	12	17.92	0.85	4.8	17.9	14.3 - 21.6	12	32.18	1.66	5.1	32.4	25.7 - 38.7

Progesterone (ng/mL)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	19	15.86	2.95	18.6	14.9	11.1 - 20.7	19	26.04	4.82	18.5	24.7	18.2 - 33.9

Prolactin (ng/mL)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	21	17.51	1.36	7.7	17.9	12.2 - 22.8	21	32.76	3.19	9.7	32.8	22.9 - 42.6
Beckman ACCESS / 2 / DxI	10	18.32	1.00	5.4	18.2	12.8 - 23.9	10	33.30	2.08	6.2	33.1	23.3 - 43.3

Testosterone (ng/dL)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	87	541.8	83.1	15.3	515	379 - 705	87	908.8	135.5	14.9	864	636 - 1182
All Roche Instruments	11	590.8	16.8	2.8	594	413 - 769	11	955.5	34.5	3.6	960	668 - 1243
All TOSOH Instruments	15	635.1	59.2	9.3	636	444 - 826	15	1135.8	112.4	9.9	1121	795 - 1477
Abbott Architect	10	507.7	39.6	7.8	496	355 - 661	10	930.3	100.9	10.8	885	651 - 1210
Beckman ACCESS / 2 / DxI	27	483.0	24.4	5.0	481	338 - 628	27	819.1	43.2	5.3	818	573 - 1065
Roche cobas e 601/e 602	10	593.0	17.8	3.0	595	415 - 771	10	952.2	37.5	3.9	949	666 - 1238
TOSOH AIA PACK	10	600.8	57.8	9.6	601	420 - 782	10	1146.6	188.6	16.4	1049	802 - 1491
TOSOH ST AIA PACK	11	658.0	50.8	7.7	667	460 - 856	11	1129.8	51.2	4.5	1130	790 - 1469

Transferrin (mg/dL)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	10	159.3	2.8	1.8	160	143 - 176	10	202.4	6.2	3.1	204	182 - 223

Vitamin B_{12} (pg/mL)

	Specimen SC-3						Specimen SC-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	96	490.3	78.0	15.9	493	343 - 638	96	827.8	118.4	14.3	828	579 - 1077
All Roche Instruments	13	524.1	63.5	12.1	561	366 - 682	13	951.1	81.6	8.6	961	665 - 1237
All TOSOH Instruments	14	592.8	33.6	5.7	593	414 - 771	14	956.5	51.0	5.3	947	669 - 1244
Abbott Architect	10	529.6	30.7	5.8	541	370 - 689	10	912.0	53.9	5.9	920	638 - 1186
Beckman ACCESS / 2 / DxI	34	419.4	29.8	7.1	417	293 - 546	34	721.6	44.9	6.2	710	505 - 939
Roche cobas e 411	10	496.4	75.9	15.3	499	347 - 646	10	949.6	114.7	12.1	961	664 - 1235
Siemens Dimension	11	519.9	19.7	3.8	521	363 - 676	11	843.4	37.1	4.4	837	590 - 1097
TOSOH AIA PACK	10	632.0	119.3	18.9	616	442 - 822	10	920.2	131.1	14.3	959	644 - 1197
TOSOH ST AIA PACK	11	587.2	30.2	5.1	578	411 - 764	11	954.0	41.4	4.3	940	667 - 1241

Serum Alcohol (mg/dL)

Method	Specimen ETH-6 Labs	Mean	SD	CV	Median	Range	Specimen ETH-7 Labs	Mean	SD	CV	Median	Range
ALL METHODS	5	146.0	13.2	9.1	151	109 - 183	5	166.7	19.9	11.9	175	125 - 209

Method	Specimen ETH-8 Labs	Mean	SD	CV	Median	Range	Specimen ETH-9 Labs	Mean	SD	CV	Median	Range
ALL METHODS	5	22.0	1.7	7.9	21	16 - 28	5	101.0	7.5	7.5	102	75 - 127

Method	Specimen ETH-10 Labs	Mean	SD	CV	Median	Range
ALL METHODS	5	193.3	23.7	12.3	200	144 - 242

Acetone

Method	Specimen ETH-6 Labs	Negative	Small	Moderate	Large	Specimen ETH-7 Labs	Negative	Small	Moderate	Large
ALL METHODS	12	12	-	-	-	12	1	-	-	11
Biorex Labs K-CHECK	9	9	-	-	-	9	-	-	-	9
Germaine Laboratories AimTab	1	1	-	-	-	1	1	-	-	-
Siemens Acetest	2	2	-	-	-	2	-	-	-	2

Method	Specimen ETH-8 Labs	Negative	Small	Moderate	Large	Specimen ETH-9 Labs	Negative	Small	Moderate	Large
ALL METHODS	12	11	-	1	-	12	12	-	-	-
Biorex Labs K-CHECK	9	9	-	-	-	9	9	-	-	-
Germaine Laboratories AimTab	1	-	-	1	-	1	1	-	-	-
Siemens Acetest	2	2	-	-	-	2	2	-	-	-

Method	Specimen ETH-10 Labs	Negative	Small	Moderate	Large
ALL METHODS	12	-	1	2	9
Biorex Labs K-CHECK	9	-	-	2	7
Germaine Laboratories AimTab	1	-	1	-	-
Siemens Acetest	2	-	-	-	2

Thyroglobulin Antibody (IU/mL)

	Specimen THY-3						Specimen THY-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	21	102.574	46.132	45.0	116.70	0.00 - 240.97	21	3.590	7.003	195.1	0.10	0.00 - 24.60
Beckman ACCESS / 2 / DxI	10	142.078	15.964	11.2	141.10	94.18 - 189.98	10	0.233	0.381	163.2	0.10	0.00 - 1.38

Thryoid Peroxidase Antibody (TPO) (IU/mL)

	Specimen THY-3						Specimen THY-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	20	3.754	2.460	65.5	2.75	0.00 - 11.14	22	3.720	8.420	226.3	0.00	0.00 - 28.98
Beckman ACCESS / 2 / DxI	11	2.600	0.245	9.4	2.60	1.86 - 3.34	11	0.068	0.117	171.3	0.00	0.00 - 0.42

Ammonia (µmol/L)

	Specimen AMM-3						Specimen AMM-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	29.0	1.4	4.9	29	26 - 32	5	159.0	1.4	0.9	159	151 - 167

Adulterated Urine – Specific Gravity

	Specimen AUR-3						Specimen AUR-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
ALL METHODS	5	1.0048	0.0033	0.3	1.006	0.994 - 1.015	5	1.0048	0.0033	0.3	1.006	0.994 - 1.015

Adulterated Urine – Specific Gravity Interpretation

	Specimen AUR-3			Specimen AUR-4		
Method	***Labs***	***Normal***	***Abnormal***	***Labs***	***Normal***	***Abnormal***
ALL METHODS	5	4	1	5	4	1
Carolina Chemistries BiOlis	2	2	-	2	2	-
CLIAwaived, Inc. Drug Test	1	1	-	1	1	-
Indiko Plus	1	1	-	1	1	-
McKesson Consult Drug Panel	1	-	1	1	-	1

Adulterated Urine – pH

	Specimen AUR-3						Specimen AUR-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
ALL METHODS	5	6.64	0.51	7.7	7.0	5.6 - 7.7	5	6.00	0.70	11.6	6.0	5.0 - 7.0

Adulterated Urine – pH Interpretation

	Specimen AUR-3			Specimen AUR-4		
Method	***Labs***	***Normal***	***Abnormal***	***Labs***	***Normal***	***Abnormal***
ALL METHODS	6	6	-	6	6	-
Axiom Diagnostics	1	1	-	1	1	-
Carolina Chemistries BiOlis	2	2	-	2	2	-
CLIAwaived, Inc. Drug Test	1	1	-	1	1	-
Indiko Plus	1	1	-	1	1	-
McKesson Consult Drug Panel	1	1	-	1	1	-

Adulterated Urine – Creatinine (mg/dL)

	Specimen AUR-3						Specimen AUR-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	7.25	1.84	25.4	6.5	4.2 - 10.3	5	0.10	0.10	100.0	0.1	0.0 - 3.1

Adulterated Urine – Creatinine Interpretation

	Specimen AUR-3			Specimen AUR-4		
Method	***Labs***	***Normal***	***Abnormal***	***Labs***	***Normal***	***Abnormal***
ALL METHODS	6	-	6	6	-	6
Beckman AU	1	-	1	1	-	1
Carolina Chemistries BiOlis	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
McKesson Consult Drug Panel	1	-	1	1	-	1

Adulterated Urine – Nitrite Interpretation

	Specimen AUR-3			Specimen AUR-4		
Method	***Labs***	***Normal***	***Abnormal***	***Labs***	***Normal***	***Abnormal***
ALL METHODS	1	-	1	1	1	-
McKesson Consult Drug Panel	1	-	1	1	1	-

Adulterated Urine – Oxidants Interpretation

	Specimen AUR-3			Specimen AUR-4		
Method	***Labs***	***Negative/ Normal***	***Positive/ Abnormal***	***Labs***	***Negative/ Normal***	***Positive/ Abnormal***
ALL METHODS	3	-	3	3	3	-
Beckman AU	1	-	1	1	1	-
CLIAwaived, Inc. Drug Test	1	-	1	1	1	-
McKesson Consult Drug Panel	1	-	1	1	1	-

Ethyl Glucuronide (EtG) (ng/mL)

	Specimen ETG-3			Specimen ETG-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	2	2	-	2	1	1
Cut-off 500						
Beckman AU	1	1	-	1	1	-
All Cut-off 500	1	1	-	1	1	-
Cut-off 1000						
All Cut-off 1000	1	1	-	1	-	1

Urine Drug Screen

Acetaminophen (µg/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	5	-	5	5	-	5

Amphetamines (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	106	3	103	107	101	6
Cut-off 500						
Alere iCup	5	1	4	5	4	1
Beckman AU	3	-	3	3	2	1
CLIAwaived, Inc. Drug Test	2	-	2	2	2	-
ImmTox	1	-	1	1	1	-
Indiko Plus	2	-	2	2	2	-
McKesson Consult Drug Panel	5	-	5	5	5	-
MEDTOX Diagnostics	6	-	6	6	6	-
Mindray BS-200/BS-480	1	-	1	1	1	-
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	3	3	-
Roche Integra	1	-	1	1	1	-
Siemens Dimension	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 500	32	1	31	33	31	2
Cut-off 1000						
Abbott Architect	1	-	1	1	1	-
Alere iCassette	5	-	5	5	5	-
Alere iCup	1	-	1	1	1	-
Amedica Biotech AmediCheck	1	1	-	1	-	1
Beckman AU	1	-	1	1	1	-
BMC QuickTox Drug Screen	24	-	24	24	23	1
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
CLIAwaived, Inc. Drug Test	2	-	2	2	2	-
First Sign Drugs of Abuse	6	-	6	6	6	-
Germaine Laboratories AimScreen	1	-	1	1	1	-
Healgen Scientific Urine Drug Test	1	-	1	1	1	-
Lin-Zhi International	2	-	2	2	2	-
McKesson Drug Panel	1	-	1	1	1	-
Medica EasyRA	1	-	1	1	1	-
Microgenics DRI	7	-	7	7	6	1
Noble Medical Inc.	2	-	2	2	2	-
Roche cobas 6000 / c 501	1	-	1	1	1	-
Roche Cobas 8000 / c502	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	1	-	1	1	1	-
All Cut-off 1000	66	1	65	66	63	3

Amphetamines/Methamphetamines (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	11	-	11	11	10	1
Cut-off 300						
Roche Integra	1	-	1	1	1	-
All Cut-off 300	1	-	1	1	1	-
Cut-off 500						
Beckman AU	3	-	3	3	2	1
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 500	4	-	4	4	3	1
Cut-off 1000						
Alere iCassette	1	-	1	1	1	-
First Sign Drugs of Abuse	1	-	1	1	1	-
Microgenics DRI	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 1000	4	-	4	4	4	-

Barbiturates (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	87	1	86	87	1	86
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 200						
Abbott Architect	1	-	1	1	-	1
Beckman AU	4	-	4	4	-	4
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	3	-	3	3	-	3
Roche Cobas 8000 / c502	1	-	1	1	-	1
Roche Integra	3	-	3	3	-	3
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	28	-	28	28	-	28
Cut-off 300						
Alere iCassette	5	-	5	5	-	5
Alere iCup	6	-	6	6	-	6
Amedica Biotech AmediCheck	1	1	-	1	1	-
BMC QuickTox Drug Screen	24	-	24	24	-	24
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	54	1	53	54	1	53

Benzodiazepines (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	106	2	104	106	2	104
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
All Cut-off 100	3	-	3	3	-	3
Cut-off 150						
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
All Cut-off 150	7	-	7	7	-	7
Cut-off 200						
Abbott Architect	1	-	1	1	-	1
Beckman AU	4	-	4	4	-	4
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
Microgenics DRI	7	-	7	7	-	7
Mindray BS-200/BS-480	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	4	-	4	4	-	4
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	26	-	26	26	-	26
Cut-off 300						
Alere iCassette	5	-	5	5	-	5
Alere iCup	6	-	6	6	-	6
Alere iScreen	1	-	1	1	-	1
Amedica Biotech AmediCheck	1	1	-	1	1	-
BMC QuickTox Drug Screen	24	-	24	24	-	24
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
First Sign Drugs of Abuse	6	-	6	6	-	6
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
Microgenics CEDIA	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	62	1	61	62	1	61

Buprenorphine (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	45	38	7	43	-	43
Cut-off 5						
Beckman AU	3	3	-	3	-	3
ImmTox	2	2	-	2	-	2
Indiko Plus	2	2	-	2	-	2
Lin-Zhi International	1	1	-	1	-	1
Medica EasyRA	1	1	-	1	-	1
Microgenics CEDIA	6	6	-	5	-	5
Siemens EMIT II Plus	2	2	-	2	-	2
Synermed IR 500	1	1	-	1	-	1
All Cut-off 5	18	18	-	17	-	17
Cut-off 10						
Alere iCup	2	-	2	2	-	2
BMC QuickTox Drug Screen	1	1	-	1	-	1
Chemtron Biotech	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	4	4	-	4	-	4
First Sign Drugs of Abuse	1	1	-	1	-	1
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	1	-	1	-	1
MEDTOX Diagnostics	3	3	-	3	-	3
Microgenics CEDIA	1	1	-	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	3	3	-	2	-	2
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
All Cut-off 10	25	18	7	24	-	24
Cut-off 20						
Microgenics CEDIA	1	1	-	1	-	1
All Cut-off 20	1	1	-	1	-	1

Cannabinoids (THC) (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	110	1	109	110	1	109
Cut-off 20						
Roche Integra	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 20	2	-	2	2	-	2
Cut-off 50						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	5	-	5	5	-	5
Alere iCup	7	-	7	7	-	7
Alfa Scientific Instant-View	7	-	7	7	-	7
Amedica Biotech AmediCheck	1	1	-	1	1	-
Beckman AU	4	-	4	4	-	4
BMC QuickTox Drug Screen	24	-	24	24	-	24
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
First Sign Drugs of Abuse	1	-	1	1	-	1
Germaine Laboratories AimScreen	3	-	3	3	-	3
Healgen Scientific Urine Drug Test	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Indiko Plus	2	-	2	2	-	2
Lin-Zhi International	2	-	2	2	-	2
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	7	-	7	7	-	7
Mindray BS-200/BS-480	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 50	103	1	102	103	1	102
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Carisoprodol (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	2	2	-	2	-	2
Cut-off 100						
ImmTox	1	1	-	1	-	1
Immunalysis	1	1	-	1	-	1
All Cut-off 100	2	2	-	2	-	2

Cocaine Metabolites (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	121	2	119	121	2	119
Cut-off 50						
Amedica Biotech AmediCheck	1	1	-	1	1	-
First Sign Drugs of Abuse	2	-	2	2	-	2
All Cut-off 50	3	1	2	3	1	2
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
All Cut-off 100	2	-	2	2	-	2
Cut-off 150						
Alere iCup	5	-	5	5	-	5
Beckman AU	3	-	3	3	-	3
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
First Sign Drugs of Abuse	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Indiko Plus	1	-	1	1	-	1
McKesson Consult Drug Panel	5	-	5	5	-	5
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	1	-	1	1	-	1

Cocaine Metabolites (ng/mL) (cont'd)

	Specimen UDS-3			Specimen UDS-4		
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 150	33	-	33	33	-	33
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	5	-	5	5	-	5
Alere iCup	2	-	2	2	-	2
Alfa Scientific Instant-View	7	-	7	7	-	7
Beckman AU	1	-	1	1	-	1
BMC QuickTox Drug Screen	24	-	24	24	-	24
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
First Sign Drugs of Abuse	3	-	3	3	-	3
Germaine Laboratories AimScreen	3	-	3	3	-	3
Healgen Scientific Urine Drug Test	1	-	1	1	-	1
Lin-Zhi International	2	-	2	2	-	2
McKesson Drug Panel	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
Microgenics DRI	7	-	7	7	-	7
Noble Medical Inc.	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	75	-	75	75	-	75

Cotinine (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	2	-	2	2	-	2

EDDP (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	6	-	6	6	-	6
Cut-off 100						
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
All Cut-off 100	3	-	3	3	-	3
Cut-off 300						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 1000						
Indiko Plus	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1

Ethanol (Alcohol) (mg/dL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	13	-	13	13	-	13
Cut-off 10						
Abbott Architect	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 10	2	-	2	2	-	2
Cut-off 20						
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 20	2	-	2	2	-	2
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
Microgenics DRI	3	-	3	3	-	3
All Cut-off 100	8	-	8	8	-	8
Cut-off 3						
Roche Cobas 8000 / c502	1	-	1	1	-	1
All Cut-off 3	1	-	1	1	-	1

Fentanyl (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	5	-	5	5	5	-
Cut-off 2						
ImmTox	2	-	2	2	2	-
Lin-Zhi International	1	-	1	1	1	-
Medica EasyRA	1	-	1	1	1	-
Microgenics DRI	1	-	1	1	1	-
All Cut-off 2	5	-	5	5	5	-

Hydrocodone (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1
Cut-off 300						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1

LSD (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

MDMA (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	57	2	55	58	56	2
Cut-off 100						
First Sign Drugs of Abuse	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-
Cut-off 500						
Alere iCassette	2	-	2	2	2	-
Alere iCup	6	1	5	6	5	1
Amedica Biotech AmediCheck	1	1	-	1	-	1
Beckman AU	1	-	1	1	1	-
BMC QuickTox Drug Screen	23	-	23	23	23	-
CLIAwaived, Inc. Drug Test	4	-	4	4	4	-
Indiko Plus	1	-	1	1	1	-
McKesson Consult Drug Panel	5	-	5	5	5	-
McKesson Drug Panel	1	-	1	1	1	-
Microgenics DRI	2	-	2	2	2	-
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	3	3	-
Siemens EMIT II Plus	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	1	-	1	1	1	-
All Cut-off 500	54	2	52	55	53	2

Meperidine (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

Methadone (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	89	1	88	89	2	87
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 150						
Siemens EMIT II Plus	2	-	2	2	-	2
All Cut-off 150	2	-	2	2	-	2
Cut-off 200						
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 200	5	-	5	5	-	5
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	4	-	4	4	-	4
Alere iCup	6	-	6	6	-	6
Amedica Biotech AmediCheck	1	1	-	1	1	-
Beckman AU	3	-	3	3	-	3
BMC QuickTox Drug Screen	23	-	23	23	-	23
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	4	-	4	4	1	3
First Sign Drugs of Abuse	1	-	1	1	-	1
Lin-Zhi International	2	-	2	2	-	2
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
Microgenics DRI	9	-	9	9	-	9
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	76	1	75	76	2	74
Cut-off 1000						
Indiko Plus	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1

Methamphetamines (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	75	3	72	76	71	5
Cut-off 500						
Alere iCup	5	1	4	5	4	1
Alere Triage	1	-	1	1	1	-
Beckman AU	1	-	1	1	1	-
BMC QuickTox Drug Screen	23	-	23	23	23	-
CLIAwaived, Inc. Drug Test	2	-	2	2	2	-
ImmTox	2	-	2	2	2	-
Lin-Zhi International	1	-	1	1	1	-
McKesson Consult Drug Panel	5	-	5	5	5	-
MEDTOX Diagnostics	5	-	5	5	5	-
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	3	3	-
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 500	48	1	47	49	48	1
Cut-off 1000						
Alere iCassette	5	-	5	5	5	-
Alere iCup	2	-	2	2	2	-
Amedica Biotech AmediCheck	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	1	-	1	1	1	-
First Sign Drugs of Abuse	5	-	5	5	3	2
McKesson Drug Panel	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	1	-	1	1	1	-
All Cut-off 1000	20	1	19	20	17	3

Methanol (mg/dL)

	Specimen UDS-3			Specimen UDS-4		
	Labs	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

Methaqualone (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1
Cut-off 300						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1

6-MAM (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	8	8	-	8	-	8
Cut-off 10						
Beckman AU	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Microgenics CEDIA	3	3	-	3	-	3
Siemens EMIT II Plus	1	1	-	1	-	1
All Cut-off 10	8	8	-	8	-	8

Opiates (Morphine Trihydrate) (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	126	5	121	126	2	124
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 100	7	-	7	7	-	7
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	1	-	1	1	-	1
Alere iCup	5	-	5	5	-	5
Alere iScreen	1	-	1	1	-	1
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	2	-	2	2	-	2
Beckman AU	5	-	5	5	-	5
BMC QuickTox Drug Screen	23	-	23	23	-	23
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Indiko Plus	2	-	2	2	-	2
Lin-Zhi International	2	-	2	2	-	2
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
Microgenics DRI	7	-	7	7	-	7
Mindray BS-200/BS-480	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Roche Integra	3	-	3	3	-	3
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	4	-	4	4	-	4
Synermed IR 500	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
All Cut-off 300	80	-	80	80	-	80

Opiates (Morphine Trihydrate) (ng/mL) (cont'd)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
Cut-off 1000						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1
Cut-off 2000						
Alere iCassette	4	-	4	4	-	4
Alere iCup	2	-	2	2	-	2
Alfa Scientific Instant-View	5	1	4	5	-	5
Amedica Biotech AmediCheck	1	1	-	1	1	-
CLIAwaived, Inc. Drug Test	3	-	3	3	-	3
First Sign Drugs of Abuse	5	-	5	5	-	5
Germaine Laboratories AimScreen	3	-	3	3	-	3
Healgen Scientific Urine Drug Test	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	1	1	-	1	-	1
All Cut-off 2000	29	3	26	29	1	28

Oxycodone (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	88	2	86	88	1	87
Cut-off 100						
Alere iCassette	4	-	4	4	-	4
Alere iCup	6	-	6	6	-	6
Alere iScreen	1	1	-	1	-	1
Alere Triage	1	-	1	1	-	1
Amedica Biotech AmediCheck	1	1	-	1	1	-
Beckman AU	4	-	4	4	-	4
BMC QuickTox Drug Screen	23	-	23	23	-	23
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
First Sign Drugs of Abuse	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
Medica EasyRA	2	-	2	2	-	2
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	9	-	9	9	-	9
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	3	-	3	3	-	3
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 100	81	2	79	81	1	80
Cut-off 300						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	3	-	3	3	-	3

Phencyclidine (PCP) (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	79	1	78	79	1	78
Cut-off 25						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	5	-	5	5	-	5
Alere iCup	5	-	5	5	-	5
Amedica Biotech AmediCheck	1	1	-	1	1	-
Beckman AU	3	-	3	3	-	3
BMC QuickTox Drug Screen	23	-	23	23	-	23
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	3	-	3	3	-	3
First Sign Drugs of Abuse	1	-	1	1	-	1
Germaine Laboratories AimScreen	1	-	1	1	-	1
Healgen Scientific Urine Drug Test	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	3	-	3	3	-	3
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 25	75	1	74	75	1	74
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Propoxyphene (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	26	-	26	26	-	26
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Beckman AU	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
All Cut-off 300	24	-	24	24	-	24

Tramadol (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
	Labs	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	5	-	5	5	-	5
Cut-off 200						
ImmTox	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 200	4	-	4	4	-	4

Tricyclic Antidepressants (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	26	24	2	26	2	24
Cut-off 300						
MEDTOX Diagnostics	5	5	-	5	-	5
All Cut-off 300	5	5	-	5	-	5
Cut-off 1000						
Alere iCassette	3	3	-	3	-	3
Alere iCup	4	3	1	4	1	3
Amedica Biotech AmediCheck	1	-	1	1	1	-
CLIAwaived, Inc. Drug Test	1	1	-	1	-	1
First Sign Drugs of Abuse	1	1	-	1	-	1
McKesson Consult Drug Panel	5	5	-	5	-	5
McKesson Drug Panel	1	1	-	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	1	-	1	-	1
USDiagnostics UScreen Cup	1	1	-	1	-	1
All Cut-off 1000	19	17	2	19	2	17

Zolpidem (mg/dL)

	Specimen UDS-3			Specimen UDS-4		
	Labs	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

Urine Amylase (U/L)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	205	Not graded	1	-	-	-	334	Not graded

Urine Calcium (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	7.40	0.42	5.7	7.4	5.1 - 9.7	5	5.00	0.14	2.8	5.0	3.4 - 6.6

Urine Chloride (mmol/L)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	172	Not graded	1	-	-	-	252	Not graded

Urine Creatinine (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	8	115.89	7.65	6.6	115.0	96.1 - 135.6	8	182.69	10.79	5.9	183.6	151.6 - 213.8

Urine Glucose (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	143	Not graded	1	-	-	-	265	Not graded

Urine Magnesium (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	6.0	Not graded	1	-	-	-	9.5	Not graded

Urine Osmolality (mOsm/kg)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	603	Not graded	1	-	-	-	842	Not graded

Urine Phosphorus (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	35.0	Not graded	1	-	-	-	65.9	Not graded

Urine Potassium (mmol/L)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	64.5	Not graded	1	-	-	-	69.0	Not graded

Urine Sodium (mmol/L)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	133.5	0.7	0.5	134	98 - 169	5	186.5	3.5	1.9	187	138 - 235

Urine Total Protein (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	36.43	2.04	5.6	37.0	20.4 - 52.5	7	103.73	4.35	4.2	105.0	58.0 - 149.4

Urine Urea Nitrogen (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	547	Not graded	1	-	-	-	606	Not graded

Urine Uric Acid (mg/dL)

	Specimen UCH-3						Specimen UCH-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	4.5	Not graded	1	-	-	-	6.2	Not graded

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