MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Chemistry
2021 MLE-M1

ACP Medical Laboratory Evaluation

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

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EVALUATION CRITERIA

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

Acetaminophen	± 15% or 2.5 µg/mL *
Acetone	80% Consensus
Albumin	± 10%
Alcohol	± 25%
Alpha-fetoprotein	± 3 SD
Alkaline Phosphatase	± 30%
ALT (SGPT)	± 20%
Ammonia	± 5% or 10 µmol/L *
Amylase	± 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% *
Blood Lead	± 4 µg/dL or ± 10%*
C-Peptide	± 2 SD
CA 125	± 2 SD or 20% *
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 20%
Chloride	± 5%
Cholesterol, Total	± 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% or 2 SD *
Digoxin	± 0.2 mg/dL or 20% *
Estradiol	± 30% or 2 SD *
Ferritin	± 20%
Folate	± 1.0 ng/mL or 30%*
FSH	± 18% or 2 SD *
Gentamicin	± 25% or 1.0 µg/mL *
GGT	± 2 SD or 15% *
Glucose, Serum	± 6 mg/dL or 10% *
Glucose, Whole Blood	± 6 mg/dL or 20% *
Glycohemoglobin	± 5%
HDL Cholesterol	± 30%
HCG, Serum—Qualitative	80% Consensus
HCG, Serum—Quantitative	± 18% or 2 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	± 30% or 2 SD *
Phenobarbital	± 20%
Phenytoin	± 25%
Phosphorus	± 0.3 mg/dL or 10 % *
Potassium	± 0.5 mmol/L
Prealbumin	± 25%
Progesterone	± 25%
Prolactin	± 20%
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	± 25%
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% or 20 ng/dL *
Testosterone, Bioavailable	± 3 SD
Testosterone, Free	± 2 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% or 1.0 µg/mL *
Vitamin B_{12}	± 25%
Vitamin D	± 2 SD

*Whichever is greater

Sodium (mmol/L)

	Specimen IST-1						Specimen IST- 2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	106	138.5	0.6	0.4	138	134 - 143	103	125.1	0.4	0.3	125	121 - 130
All i-STAT Instruments	106	138.5	0.6	0.4	138	134 - 143	103	125.1	0.4	0.3	125	121 - 130
i-STAT - moderate	89	138.4	0.5	0.4	138	134 - 143	87	125.1	0.4	0.3	125	121 - 130
i-STAT - waived	17	138.8	0.7	0.5	139	134 - 143	17	125.3	0.7	0.5	125	121 - 130

	Specimen IST-3						Specimen IST-4					
All Method	102	147.5	0.5	0.3	148	143 - 152	99	168.3	0.5	0.3	168	164 - 173
All i-STAT Instruments	102	147.5	0.5	0.3	148	143 - 152	99	168.3	0.5	0.3	168	164 - 173
i-STAT - moderate	89	147.5	0.5	0.3	147	143 - 152	88	168.3	0.5	0.3	168	164 - 173
i-STAT - waived	13	147.6	0.5	0.3	148	143 - 152	13	168.7	0.8	0.4	169	164 - 173

	Specimen IST-5					
All Method	101	138.6	0.5	0.4	139	134 - 143
All i-STAT Instruments	101	138.6	0.5	0.4	139	134 - 143
i-STAT - moderate	88	138.6	0.5	0.4	139	134 - 143
i-STAT - waived	13	138.5	0.5	0.4	139	134 - 143

Potassium (mmol/L)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	98	3.80	0.01	0.0	3.8	3.3 - 4.3	106	2.79	0.03	1.1	2.8	2.2 - 3.3
All i-STAT Instruments	98	3.80	0.01	0.0	3.8	3.3 - 4.3	106	2.79	0.03	1.1	2.8	2.2 - 3.3
i-STAT - moderate	83	3.80	0.01	0.0	3.8	3.3 - 4.3	82	2.80	0.01	0.0	2.8	2.3 - 3.3
i-STAT - waived	15	3.80	0.01	0.0	3.8	3.3 - 4.3	16	2.78	0.04	1.4	2.8	2.2 - 3.3

	Specimen IST-3						Specimen IST-4					
All Method	100	4.23	0.04	1.1	4.2	3.7 - 4.8	101	6.48	0.04	0.6	6.5	5.9 - 7.0
All i-STAT Instruments	100	4.23	0.04	1.1	4.2	3.7 - 4.8	101	6.48	0.04	0.6	6.5	5.9 - 7.0
i-STAT - moderate	88	4.23	0.04	1.1	4.2	3.7 - 4.8	89	6.48	0.04	0.7	6.5	5.9 - 7.0
i-STAT - waived	12	4.23	0.05	1.1	4.2	3.7 - 4.8	12	6.50	0.01	0.0	6.5	6.0 - 7.0

	Specimen IST-5					
All Method	91	3.80	0.01	0.0	3.8	3.3 - 4.3
All i-STAT Instruments	91	3.80	0.01	0.0	3.8	3.3 - 4.3
i-STAT - moderate	79	3.80	0.01	0.0	3.8	3.3 - 4.3
i-STAT - waived	12	3.80	0.01	0.0	3.8	3.3 - 4.3

Chloride (mmol/L)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	106	86.5	0.7	0.8	86	82 - 91	104	75.2	0.6	0.8	75	71 - 79
All i-STAT Instruments	106	86.5	0.7	0.8	86	82 - 91	104	75.2	0.6	0.8	75	71 - 79
i-STAT - moderate	91	86.5	0.7	0.8	87	82 - 91	89	75.2	0.6	0.8	75	71 - 80
i-STAT - waived	15	86.2	0.8	0.9	86	81 - 91	15	75.1	0.7	1.0	75	71 - 79

	Specimen IST-3						Specimen IST-4					
All Method	102	84.5	0.6	0.7	85	80 - 89	102	115.6	0.8	0.6	116	109 - 122
All i-STAT Instruments	102	84.5	0.6	0.7	85	80 - 89	102	115.6	0.8	0.6	116	109 - 122
i-STAT - moderate	91	84.5	0.6	0.7	84	80 - 89	91	115.6	0.8	0.7	116	109 - 122
i-STAT - waived	11	84.5	0.5	0.6	85	80 - 89	11	115.3	0.5	0.4	115	109 - 122

	Specimen IST-5					
All Method	100	86.3	0.6	0.7	86	82 - 91
All i-STAT Instruments	100	86.3	0.6	0.7	86	82 - 91
i-STAT - moderate	89	86.3	0.6	0.7	86	82 - 91
i-STAT - waived	11	86.3	0.6	0.7	86	81 - 91

tCO_2 (mmol/L)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	103	25.9	1.1	4.1	26	20 - 32	104	23.8	1.1	4.5	24	19 - 29
All i-STAT Instruments	103	25.9	1.1	4.1	26	20 - 32	104	23.8	1.1	4.5	24	19 - 29
i-STAT - moderate	88	26.0	1.0	4.0	26	20 - 32	89	23.8	1.1	4.5	24	19 - 29
i-STAT - waived	15	25.5	1.2	4.7	25	20 - 31	15	23.8	1.1	4.5	24	19 - 29

	Specimen IST-3						Specimen IST-4					
All Method	99	21.5	0.9	4.4	22	17 - 26	97	24.7	1.0	3.9	25	19 - 30
All i-STAT Instruments	99	21.5	0.9	4.4	22	17 - 26	97	24.7	1.0	3.9	25	19 - 30
i-STAT - moderate	89	21.5	0.9	4.2	22	17 - 26	87	24.7	1.0	4.0	25	19 - 30
i-STAT - waived	10	21.8	1.2	5.6	22	17 - 27	10	24.7	0.9	3.8	25	19 - 30

	Specimen IST-5					
All Method	95	25.9	1.0	4.0	26	20 - 32
All i-STAT Instruments	95	25.9	1.0	4.0	26	20 - 32
i-STAT - moderate	85	25.9	1.0	3.8	26	20 - 32
i-STAT - waived	10	25.8	1.5	5.7	26	20 - 31

Urea Nitrogen (BUN) (mg/dL)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	104	61.0	1.3	2.2	61	55 - 67	104	67.7	1.4	2.0	68	61 - 74
All i-STAT Instruments	104	61.0	1.3	2.2	61	55 - 67	104	67.7	1.4	2.0	68	61 - 74
i-STAT - moderate	89	61.0	1.4	2.3	61	55 - 67	88	67.7	1.4	2.1	68	61 - 74
i-STAT - waived	15	61.1	0.9	1.5	61	55 - 67	16	67.6	1.0	1.5	67	61 - 74
	Specimen IST-3						**Specimen IST-4**					
All Method	101	37.1	0.8	2.1	37	33 - 41	102	16.3	0.5	2.9	16	14 - 19
All i-STAT Instruments	101	37.1	0.8	2.1	37	33 - 41	102	16.3	0.5	2.9	16	14 - 19
i-STAT - moderate	90	37.0	0.8	2.1	37	33 - 41	90	16.3	0.5	3.0	16	14 - 19
i-STAT - waived	11	37.2	0.8	2.0	37	33 - 41	12	16.3	0.5	2.8	16	14 - 19
	Specimen IST-5											
All Method	99	61.3	1.0	1.6	61	55 - 67						
All i-STAT Instruments	99	61.3	1.0	1.6	61	55 - 67						
i-STAT - moderate	87	61.3	1.0	1.6	61	55 - 67						
i-STAT - waived	12	61.4	0.7	1.1	62	55 - 67						

Glucose (mg/dL)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	103	145.2	1.1	0.7	145	130 - 160	104	175.9	1.2	0.7	176	158 - 194
All i-STAT Instruments	103	145.2	1.1	0.7	145	130 - 160	104	175.9	1.2	0.7	176	158 - 194
i-STAT - moderate	87	145.2	1.0	0.7	145	130 - 160	88	176.1	1.2	0.7	176	158 - 194
i-STAT - waived	16	145.3	1.4	1.0	145	130 - 160	16	175.3	0.8	0.5	175	157 - 193
	Specimen IST-3						**Specimen IST-4**					
All Method	102	129.9	1.4	1.1	130	116 - 143	101	74.9	1.0	1.4	75	67 - 83
All i-STAT Instruments	102	129.9	1.4	1.1	130	116 - 143	101	74.9	1.0	1.4	75	67 - 83
i-STAT - moderate	88	129.8	1.2	0.9	130	116 - 143	90	75.0	1.0	1.4	75	67 - 83
i-STAT - waived	12	130.7	1.8	1.4	130	117 - 144	12	75.1	1.6	2.1	75	67 - 83
	Specimen IST-5											
All Method	100	145.2	1.0	0.7	145	130 - 160						
All i-STAT Instruments	100	145.2	1.0	0.7	145	130 - 160						
i-STAT - moderate	88	145.2	1.0	0.7	145	130 - 160						
i-STAT - waived	12	145.1	1.3	0.9	146	130 - 160						

Hematocrit (percent)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	20	25.6	0.7	2.7	26	24 - 28	20	21.0	0.6	2.9	21	19 - 23
All i-STAT Instruments	20	25.6	0.7	2.7	26	24 - 28	20	21.0	0.6	2.9	21	19 - 23
i-STAT - moderate	11	25.7	0.8	3.1	26	24 - 28	11	21.2	0.6	2.8	21	19 - 23
i-STAT - waived	10	24.9	1.8	7.2	25	23 - 27	10	21.1	1.4	6.9	21	19 - 23
	Specimen IST-3						**Specimen IST-4**					
All Method	17	36.2	0.7	1.8	36	34 - 39	17	29.9	0.7	2.2	30	28 - 32
All i-STAT Instruments	17	36.2	0.7	1.8	36	34 - 39	17	29.9	0.7	2.2	30	28 - 32
i-STAT - moderate	11	36.4	0.8	2.2	36	34 - 39	11	30.1	0.7	2.3	30	28 - 32
i-STAT - waived	6	36.0	0.1	0.0	36	33 - 39	6	29.7	0.5	1.7	30	27 - 32
	Specimen IST-5											
All Method	17	25.5	0.7	2.8	25	23 - 28						
All i-STAT Instruments	17	25.5	0.7	2.8	25	23 - 28						
i-STAT - moderate	11	25.7	0.8	3.1	26	24 - 28						
i-STAT - waived	6	25.2	0.4	1.6	25	23 - 27						

Hemoglobin (g/dL)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	20	8.69	0.23	2.6	8.7	8.0 - 9.3	20	7.10	0.21	3.0	7.1	6.6 - 7.6
All i-STAT Instruments	20	8.69	0.23	2.6	8.7	8.0 - 9.3	20	7.10	0.21	3.0	7.1	6.6 - 7.6
i-STAT - moderate	11	8.74	0.27	3.1	8.8	8.1 - 9.4	11	7.18	0.22	3.1	7.1	6.6 - 7.7
i-STAT - waived	10	8.45	0.60	7.1	8.5	7.8 - 9.1	10	7.15	0.49	6.9	7.1	6.6 - 7.7
	Specimen IST-3						**Specimen IST-4**					
All Method	17	12.29	0.24	1.9	12.2	11.4 - 13.2	17	10.18	0.20	1.9	10.2	9.4 - 10.9
All i-STAT Instruments	17	12.29	0.24	1.9	12.2	11.4 - 13.2	17	10.18	0.20	1.9	10.2	9.4 - 10.9
i-STAT - moderate	11	12.35	0.29	2.3	12.2	11.4 - 13.3	11	10.23	0.21	2.1	10.2	9.5 - 11.0
i-STAT - waived	6	12.20	0.01	0.0	12.2	11.3 - 13.1	6	10.10	0.15	1.5	10.2	9.3 - 10.9
	Specimen IST-5											
All Method	17	8.67	0.24	2.8	8.5	8.0 - 9.3						
All i-STAT Instruments	17	8.67	0.24	2.8	8.5	8.0 - 9.3						
i-STAT - moderate	11	8.74	0.27	3.1	8.8	8.1 - 9.4						
i-STAT - waived	6	8.55	0.12	1.4	8.5	7.9 - 9.2						

Creatinine (mg/dL)

	Specimen IST-1						Specimen IST-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	117	6.31	0.24	3.7	6.3	5.3 - 7.3	117	3.70	0.11	3.0	3.7	3.1 - 4.3
All i-STAT Instruments	117	6.31	0.24	3.7	6.3	5.3 - 7.3	117	3.70	0.11	3.0	3.7	3.1 - 4.3
i-STAT - moderate	89	6.34	0.24	3.8	6.3	5.3 - 7.3	89	3.71	0.11	3.0	3.7	3.1 - 4.3
i-STAT - waived	28	6.22	0.20	3.3	6.2	5.2 - 7.2	28	3.67	0.11	3.0	3.7	3.1 - 4.3
	Specimen IST-3						**Specimen IST-4**					
All Method	100	1.62	0.06	3.6	1.6	1.3 - 2.0	97	0.71	0.03	4.1	0.7	0.4 - 1.1
All i-STAT Instruments	100	1.62	0.06	3.6	1.6	1.3 - 2.0	97	0.71	0.03	4.1	0.7	0.4 - 1.1
i-STAT - moderate	89	1.62	0.06	3.5	1.6	1.3 - 2.0	79	0.70	0.01	0.0	0.7	0.4 - 1.0
i-STAT - waived	11	1.58	0.06	3.8	1.6	1.2 - 1.9	10	0.71	0.03	4.5	0.7	0.4 - 1.1
	Specimen IST-5											
All Method	98	6.33	0.20	3.1	6.3	5.3 - 7.3						
All i-STAT Instruments	98	6.33	0.20	3.1	6.3	5.3 - 7.3						
i-STAT - moderate	87	6.35	0.20	3.1	6.3	5.3 - 7.3						
i-STAT - waived	11	6.23	0.18	2.9	6.2	5.2 - 7.2						

Ionized Calcium (mmol/L)

Instrument	Specimen IST-1 Labs	Mean	SD	CV	Median	Range	Specimen IST-2 Labs	Mean	SD	CV	Median	Range
All Method	102	2.171	0.025	1.1	2.17	2.09 - 2.25	102	2.065	0.025	1.2	2.06	1.99 - 2.15
All i-STAT Instruments	102	2.171	0.025	1.1	2.17	2.09 - 2.25	102	2.065	0.025	1.2	2.06	1.99 - 2.15
i-STAT - moderate	89	2.170	0.025	1.2	2.17	2.09 - 2.25	89	2.065	0.026	1.2	2.06	1.98 - 2.15
i-STAT - waived	14	2.169	0.040	1.8	2.17	2.04 - 2.29	14	2.071	0.030	1.5	2.06	1.97 - 2.17

Instrument	Specimen IST-3 Labs	Mean	SD	CV	Median	Range	Specimen IST-4 Labs	Mean	SD	CV	Median	Range
All Method	95	1.171	0.011	1.0	1.17	1.13 - 1.21	95	0.851	0.008	0.9	0.85	0.82 - 0.88
All i-STAT Instruments	95	1.171	0.011	1.0	1.17	1.13 - 1.21	95	0.851	0.008	0.9	0.85	0.82 - 0.88
i-STAT - moderate	88	1.171	0.011	1.0	1.17	1.13 - 1.21	87	0.851	0.008	0.9	0.85	0.82 - 0.88
i-STAT - waived	8	-	-	-	1.17	1.13 - 1.21	9	-	-	-	0.86	0.82 - 0.88

Instrument	Specimen IST-5 Labs	Mean	SD	CV	Median	Range
All Method	95	2.179	0.021	1.0	2.18	2.11 - 2.25
All i-STAT Instruments	95	2.179	0.021	1.0	2.18	2.11 - 2.25
i-STAT - moderate	86	2.178	0.021	1.0	2.18	2.11 - 2.25
i-STAT - waived	9	-	-	-	2.19	2.11 - 2.25

Albumin (g/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	178	3.51	0.32	9.1	3.6	3.1 - 3.9	170	7.20	0.62	8.6	7.3	6.4 - 8.0
All Bromocresol Green Reagents	136	3.66	0.20	5.4	3.7	3.2 - 4.1	131	7.26	0.65	9.0	7.3	6.5 - 8.0
All Bromocresol Purple Reagents	41	3.03	0.09	3.0	3.0	2.7 - 3.4	39	7.03	0.44	6.2	7.3	6.3 - 7.8
Abaxis Piccolo												
Abaxis Piccolo - waived	15	2.97	0.10	3.3	3.0	2.6 - 3.3	13	6.49	0.05	0.8	6.5	5.8 - 7.2
All Chemistry Instruments	17	2.96	0.09	3.1	3.0	2.6 - 3.3	15	6.49	0.05	0.7	6.5	5.8 - 7.2
Abbott Architect Albumin (BCG)												
Abbott Architect	5	3.54	0.05	1.5	3.5	3.1 - 3.9	5	7.04	0.09	1.3	7.1	6.3 - 7.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	3.73	0.11	3.0	3.7	3.3 - 4.1	23	7.78	0.45	5.8	7.8	7.0 - 8.6
Beckman AU												
Beckman AU systems	30	3.70	0.11	2.8	3.7	3.3 - 4.1	28	7.31	0.48	6.6	7.2	6.5 - 8.1
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	3.54	0.10	2.9	3.5	3.1 - 3.9	18	7.69	0.51	6.6	7.8	6.9 - 8.5
Roche cobas c 501												
Roche cobas 6000 / c 501	9	3.91	0.16	4.1	3.9	3.5 - 4.4	8	7.60	0.70	9.2	7.6	6.8 - 8.4
Roche Integra												
Roche Integra	13	3.88	0.11	2.7	3.9	3.4 - 4.3	13	7.35	0.45	6.1	7.4	6.6 - 8.1
Siemens Healthcare												
Siemens Dimension	24	3.08	0.05	1.7	3.1	2.7 - 3.4	23	7.35	0.08	1.1	7.4	6.6 - 8.1
VITROS												
VITROS 250,350,400 500,700,750,950	19	3.39	0.18	5.3	3.4	3.0 - 3.8	17	6.41	0.26	4.0	6.5	5.7 - 7.1
All Chemistry Instruments	25	3.38	0.16	4.8	3.4	3.0 - 3.8	23	6.34	0.28	4.4	6.5	5.7 - 7.0

Albumin (g/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	167	1.69	0.16	9.4	1.7	1.5 - 1.9	167	5.27	0.39	7.5	5.4	4.7 - 5.8
All Bromocresol Green Reagents	137	1.75	0.12	6.6	1.8	1.5 - 2.0	136	5.41	0.24	4.5	5.4	4.8 - 6.0
All Bromocresol Purple Reagents	30	1.44	0.05	3.4	1.4	1.2 - 1.6	30	4.60	0.20	4.3	4.7	4.1 - 5.1
Abaxis Piccolo												
Abaxis Piccolo - waived	5	1.50	0.01	0.0	1.5	1.3 - 1.7	5	4.28	0.18	4.2	4.2	3.8 - 4.8
All Chemistry Instruments	6	1.50	0.01	0.0	1.5	1.3 - 1.7	6	4.27	0.16	3.8	4.2	3.8 - 4.7
Abbott Architect Albumin (BCG)												
Abbott Architect	5	1.64	0.05	3.3	1.6	1.4 - 1.9	5	5.24	0.15	2.9	5.3	4.7 - 5.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	1.82	0.07	3.9	1.8	1.6 - 2.0	24	5.49	0.17	3.0	5.5	4.9 - 6.1
Beckman AU												
Beckman AU systems	30	1.76	0.06	3.2	1.8	1.5 - 2.0	28	5.44	0.09	1.6	5.4	4.8 - 6.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	1.78	0.07	4.0	1.8	1.6 - 2.0	18	5.09	0.15	3.0	5.1	4.5 - 5.7
Roche cobas c 501												
Roche cobas 6000 / c 501	9	1.82	0.11	6.0	1.8	1.6 - 2.1	9	5.63	0.17	2.9	5.6	5.0 - 6.2
Roche Integra												
Roche Integra	13	1.80	0.06	3.2	1.8	1.6 - 2.0	13	5.65	0.14	2.5	5.7	5.0 - 6.3
Siemens Healthcare												
Siemens Dimension	24	1.42	0.04	2.9	1.4	1.2 - 1.6	24	4.69	0.09	1.8	4.7	4.2 - 5.2
VITROS												
VITROS 250,350,400 500,700,750,950	18	1.57	0.07	4.4	1.6	1.4 - 1.8	19	5.46	0.34	6.3	5.4	4.9 - 6.1
All Chemistry Instruments	24	1.56	0.06	4.1	1.6	1.4 - 1.8	25	5.42	0.32	5.9	5.4	4.8 - 6.0

Albumin (g/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	167	2.66	0.23	8.8	2.7	2.3 - 3.0
All Bromocresol Green Reagents	136	2.74	0.16	5.8	2.8	2.4 - 3.1
All Bromocresol Purple Reagents	29	2.28	0.05	2.2	2.3	2.0 - 2.6
Abaxis Piccolo						
Abaxis Piccolo - waived	5	2.36	0.13	5.7	2.3	2.1 - 2.6
All Chemistry Instruments	6	2.33	0.14	5.9	2.3	2.0 - 2.6
Abbott Architect Albumin (BCG)						
Abbott Architect	5	2.64	0.05	2.1	2.6	2.3 - 3.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	2.81	0.09	3.4	2.8	2.5 - 3.1
Beckman AU						
Beckman AU systems	30	2.78	0.10	3.5	2.8	2.4 - 3.1
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	2.73	0.08	3.0	2.7	2.4 - 3.1
Roche cobas c 501						
Roche cobas 6000 / c 501	9	2.91	0.17	5.8	2.8	2.6 - 3.3
Roche Integra						
Roche Integra	13	2.91	0.08	2.6	2.9	2.6 - 3.2
Siemens Healthcare						
Siemens Dimension	24	2.28	0.05	2.3	2.3	2.0 - 2.6
VITROS						
VITROS 250,350,400 500,700,750,950	19	2.54	0.16	6.2	2.5	2.2 - 2.8
All Chemistry Instruments	24	2.49	0.11	4.4	2.5	2.2 - 2.8

Bilirubin, Direct (mg/dL)

Reagent/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	104	0.78	0.28	35.5	0.8	0.2 - 1.4	103	0.17	0.13	77.4	0.1	0.0 - 0.5
All Alfa Wassermann Reagents	11	1.17	0.21	17.9	1.1	0.7 - 1.6	11	0.40	0.04	11.2	0.4	0.3 - 0.5
All Roche Reagents	18	0.60	0.09	15.1	0.6	0.4 - 0.8	17	0.12	0.09	75.0	0.1	0.0 - 0.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	1.17	0.21	17.9	1.1	0.7 - 1.6	11	0.40	0.04	11.2	0.4	0.3 - 0.5
Beckman AU												
Beckman AU systems	22	0.86	0.07	8.5	0.9	0.7 - 1.1	20	0.10	0.01	0.0	0.1	0.0 - 0.2
Siemens Healthcare												
Siemens Dimension	17	0.58	0.06	10.9	0.6	0.4 - 0.8	17	0.09	0.03	37.6	0.1	0.0 - 0.2
All Chemistry Instruments	18	0.59	0.07	11.5	0.6	0.4 - 0.8	18	0.09	0.03	36.4	0.1	0.0 - 0.2
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	11	0.42	0.27	64.0	0.5	0.0 - 1.0	11	0.26	0.18	68.4	0.3	0.0 - 0.7
All Chemistry Instruments	12	0.43	0.26	60.1	0.5	0.0 - 1.0	12	0.27	0.17	64.6	0.3	0.0 - 0.7

Reagent/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	101	0.06	0.06	113.3	0.0	0.0 - 0.2	104	1.42	0.41	28.8	1.5	0.6 - 2.3
All Alfa Wassermann Reagents	11	0.10	0.04	44.7	0.1	0.0 - 0.2	11	2.03	0.28	13.6	1.9	1.4 - 2.6
All Roche Reagents	17	0.10	0.10	100.0	0.1	0.0 - 0.3	18	1.08	0.18	17.0	1.0	0.7 - 1.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	0.10	0.04	44.7	0.1	0.0 - 0.2	11	2.03	0.28	13.6	1.9	1.4 - 2.6
Beckman AU												
Beckman AU systems	19	0.00	0.01	0.0	0.0	0.0 - 0.1	22	1.50	0.11	7.5	1.5	1.2 - 1.8
Siemens Healthcare												
Siemens Dimension	17	0.06	0.05	88.8	0.1	0.0 - 0.2	17	1.03	0.09	8.9	1.0	0.8 - 1.3
All Chemistry Instruments	18	0.06	0.05	84.4	0.1	0.0 - 0.2	18	1.03	0.09	8.8	1.0	0.8 - 1.3
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	10	0.06	0.05	86.1	0.1	0.0 - 0.2	11	1.25	0.47	37.8	1.5	0.3 - 2.3
All Chemistry Instruments	11	0.05	0.05	95.7	0.1	0.0 - 0.2	12	1.26	0.45	35.9	1.4	0.3 - 2.2

Bilirubin, Direct (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	104	0.39	0.18	47.0	0.4	0.0 - 0.8
All Alfa Wassermann Reagents	11	0.63	0.14	22.6	0.6	0.3 - 1.0
All Roche Reagents	18	0.27	0.05	16.9	0.3	0.1 - 0.4
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	11	0.63	0.14	22.6	0.6	0.3 - 1.0
Beckman AU						
Beckman AU systems	22	0.45	0.07	14.9	0.5	0.3 - 0.6
Siemens Healthcare						
Siemens Dimension	17	0.29	0.04	14.6	0.3	0.2 - 0.4
All Chemistry Instruments	18	0.30	0.05	16.2	0.3	0.2 - 0.4
VITROS-BuBc and Bc						
VITROS 250,350,400 500,700,750,950	11	0.15	0.16	105.8	0.1	0.0 - 0.5
All Chemistry Instruments	12	0.16	0.16	98.8	0.2	0.0 - 0.5

Bilirubin, Total (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	174	2.74	0.28	10.1	2.7	2.1 - 3.3	174	0.48	0.13	26.8	0.5	0.0 - 0.9
All Alfa Wassermann Reagents	25	3.20	0.20	6.1	3.2	2.5 - 3.9	25	0.69	0.05	7.6	0.7	0.2 - 1.1
All Horiba Pentra Reagents	18	2.64	0.31	11.8	2.7	2.1 - 3.2	18	0.41	0.05	11.5	0.4	0.0 - 0.9
All Roche T. bili Special Reagents	20	2.52	0.19	7.4	2.5	2.0 - 3.1	20	0.34	0.06	17.6	0.3	0.0 - 0.8
Abaxis Piccolo												
Abaxis Piccolo - waived	15	2.59	0.14	5.5	2.6	2.0 - 3.2	14	0.50	0.10	20.8	0.5	0.1 - 0.9
All Chemistry Instruments	17	2.62	0.16	5.9	2.6	2.0 - 3.2	15	0.53	0.06	11.6	0.5	0.1 - 1.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	3.20	0.20	6.1	3.2	2.5 - 3.9	25	0.69	0.05	7.6	0.7	0.2 - 1.1
Beckman AU												
Beckman AU systems	29	2.61	0.17	6.5	2.7	2.0 - 3.2	29	0.49	0.04	7.5	0.5	0.0 - 0.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	2.64	0.31	11.8	2.7	2.1 - 3.2	18	0.41	0.05	11.5	0.4	0.0 - 0.9
Siemens Healthcare												
Siemens Dimension	23	2.75	0.21	7.7	2.7	2.2 - 3.4	23	0.37	0.06	15.1	0.4	0.0 - 0.8
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	19	2.81	0.23	8.1	2.9	2.2 - 3.4	19	0.61	0.10	17.2	0.6	0.2 - 1.1
All Chemistry Instruments	24	2.79	0.21	7.4	2.8	2.2 - 3.4	23	0.58	0.08	13.3	0.6	0.1 - 1.0

Bilirubin, Total (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	159	0.11	0.06	55.3	0.1	0.0 - 0.6	163	5.41	0.54	10.1	5.3	4.3 - 6.5
All Alfa Wassermann Reagents	24	0.17	0.05	28.9	0.2	0.0 - 0.6	25	6.25	0.42	6.8	6.1	5.0 - 7.6
All Horiba Pentra Reagents	18	0.09	0.05	62.0	0.1	0.0 - 0.5	17	5.29	0.36	6.7	5.2	4.2 - 6.4
All Roche T. bili Special Reagents	19	0.14	0.07	48.7	0.2	0.0 - 0.6	20	4.92	0.34	7.0	5.0	3.9 - 5.9
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	0.3	0.0 - 0.6	5	-	-	-	5.3	4.3 - 6.5
All Chemistry Instruments	6	-	-	-	0.3	0.1 - 0.9	6	-	-	-	5.3	4.2 - 6.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	0.17	0.05	28.9	0.2	0.0 - 0.6	25	6.25	0.42	6.8	6.1	5.0 - 7.6
Beckman AU												
Beckman AU systems	27	0.10	0.01	0.0	0.1	0.0 - 0.5	29	4.99	0.30	5.9	5.0	3.9 - 6.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	0.09	0.05	62.0	0.1	0.0 - 0.5	17	5.29	0.36	6.7	5.2	4.2 - 6.4
Siemens Healthcare												
Siemens Dimension	23	0.09	0.05	52.6	0.1	0.0 - 0.5	23	5.45	0.36	6.6	5.5	4.3 - 6.6
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	16	0.10	0.01	0.0	0.1	0.0 - 0.5	19	5.64	0.39	6.8	5.6	4.5 - 6.8
All Chemistry Instruments	22	0.09	0.04	40.7	0.1	0.0 - 0.5	24	5.65	0.35	6.2	5.7	4.5 - 6.8

Bilirubin, Total (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	163	1.30	0.19	14.7	1.3	0.9 - 1.8
All Alfa Wassermann Reagents	25	1.55	0.13	8.5	1.6	1.1 - 2.0
All Horiba Pentra Reagents	18	1.28	0.18	14.2	1.3	0.8 - 1.7
All Roche T. bili Special Reagents	20	1.14	0.16	14.4	1.2	0.7 - 1.6
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	1.4	0.9 - 1.8
All Chemistry Instruments	6	-	-	-	1.4	1.1 - 1.9
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	25	1.55	0.13	8.5	1.6	1.1 - 2.0
Beckman AU						
Beckman AU systems	29	1.29	0.14	10.7	1.3	0.8 - 1.7
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	1.28	0.18	14.2	1.3	0.8 - 1.7
Siemens Healthcare						
Siemens Dimension	23	1.29	0.15	11.4	1.3	0.8 - 1.7
VITROS - TBIL						
VITROS 250,350,400 500,700,750,950	19	1.23	0.15	12.4	1.3	0.8 - 1.7
All Chemistry Instruments	24	1.21	0.15	12.0	1.2	0.8 - 1.7

Calcium (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	179	10.07	0.28	2.8	10.1	9.0 - 11.1	178	6.89	0.35	5.1	6.9	5.8 - 7.9
All Arsenazo Methods	84	10.07	0.28	2.8	10.1	9.0 - 11.1	83	7.03	0.28	3.9	7.0	6.0 - 8.1
All CPC Methods	94	10.07	0.28	2.8	10.1	9.0 - 11.1	93	6.74	0.35	5.2	6.8	5.7 - 7.8
Abaxis Piccolo												
Abaxis Piccolo - waived	15	10.12	0.17	1.7	10.1	9.1 - 11.2	15	7.07	0.35	5.0	7.2	6.0 - 8.1
All Chemistry Instruments	17	10.11	0.19	1.8	10.1	9.1 - 11.2	17	7.04	0.35	4.9	7.1	6.0 - 8.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	10.04	0.34	3.4	9.9	9.0 - 11.1	25	7.19	0.25	3.5	7.2	6.1 - 8.2
Beckman AU												
Beckman AU systems	31	10.06	0.17	1.7	10.0	9.0 - 11.1	30	7.03	0.15	2.2	7.0	6.0 - 8.1
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	10.27	0.27	2.6	10.3	9.2 - 11.3	15	6.83	0.12	1.8	6.9	5.8 - 7.9
Roche Integra												
Roche Integra	13	10.22	0.20	2.0	10.2	9.2 - 11.3	13	6.77	0.39	5.7	6.7	5.7 - 7.8
Siemens Healthcare												
Siemens Dimension	22	9.76	0.23	2.3	9.8	8.7 - 10.8	23	6.28	0.24	3.9	6.3	5.2 - 7.3
All Chemistry Instruments	23	9.77	0.23	2.3	9.8	8.7 - 10.8	24	6.29	0.24	3.8	6.3	5.2 - 7.3
VITROS												
VITROS 250,350,400 500,700,750,950	19	10.17	0.18	1.7	10.1	9.1 - 11.2	19	6.89	0.16	2.3	6.9	5.8 - 7.9
All Chemistry Instruments	25	10.16	0.16	1.6	10.1	9.1 - 11.2	25	6.90	0.15	2.1	6.9	5.8 - 7.9

Calcium (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	166	7.17	0.26	3.7	7.2	6.1 - 8.2	166	12.95	0.38	2.9	13.0	11.9 - 14.0
All Arsenazo Methods	72	7.20	0.33	4.6	7.2	6.1 - 8.2	72	12.86	0.39	3.0	12.9	11.8 - 13.9
All CPC Methods	94	7.13	0.20	2.8	7.1	6.1 - 8.2	93	13.02	0.36	2.7	13.1	12.0 - 14.1
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	7.4	6.1 - 8.2	5	-	-	-	12.4	11.8 - 13.9
All Chemistry Instruments	6	-	-	-	7.4	6.3 - 8.3	6	-	-	-	12.3	11.2 - 13.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	7.42	0.21	2.8	7.4	6.4 - 8.5	24	12.77	0.34	2.7	12.8	11.7 - 13.8
Beckman AU												
Beckman AU systems	31	7.03	0.13	1.8	7.0	6.0 - 8.1	30	13.11	0.28	2.1	13.1	12.1 - 14.2
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	7.17	0.19	2.7	7.2	6.1 - 8.2	15	13.27	0.35	2.6	13.3	12.2 - 14.3
Roche Integra												
Roche Integra	13	7.19	0.13	1.8	7.2	6.1 - 8.2	13	13.05	0.23	1.7	13.0	12.0 - 14.1
Siemens Healthcare												
Siemens Dimension	23	7.13	0.27	3.8	7.1	6.1 - 8.2	23	12.67	0.31	2.4	12.7	11.6 - 13.7
All Chemistry Instruments	24	7.14	0.27	3.7	7.2	6.1 - 8.2	24	12.66	0.30	2.4	12.7	11.6 - 13.7
VITROS												
VITROS 250,350,400 500,700,750,950	19	7.11	0.20	2.8	7.1	6.1 - 8.2	19	13.12	0.24	1.8	13.1	12.1 - 14.2
All Chemistry Instruments	25	7.10	0.18	2.5	7.1	6.1 - 8.2	25	13.10	0.22	1.7	13.1	12.1 - 14.2

Calcium (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	165	8.67	0.29	3.3	8.7	7.6 - 9.7
All Arsenazo Methods	72	8.73	0.36	4.1	8.7	7.7 - 9.8
All CPC Methods	93	8.65	0.22	2.5	8.6	7.6 - 9.7
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	9.1	7.7 - 9.8
All Chemistry Instruments	6	-	-	-	9.1	7.9 - 10.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	8.89	0.29	3.3	8.8	7.8 - 9.9
Beckman AU						
Beckman AU systems	31	8.58	0.16	1.8	8.6	7.5 - 9.6
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	15	8.82	0.26	2.9	8.8	7.8 - 9.9
Roche Integra						
Roche Integra	13	8.72	0.17	1.9	8.7	7.7 - 9.8
Siemens Healthcare						
Siemens Dimension	23	8.51	0.27	3.1	8.5	7.5 - 9.6
All Chemistry Instruments	24	8.52	0.26	3.1	8.5	7.5 - 9.6
VITROS						
VITROS 250,350,400 500,700,750,950	19	8.77	0.20	2.3	8.7	7.7 - 9.8
All Chemistry Instruments	25	8.73	0.20	2.3	8.7	7.7 - 9.8

Creatinine (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	177	2.79	0.14	4.9	2.8	2.3 - 3.3	179	5.81	0.56	9.7	5.6	4.9 - 6.7
All Alfa Wassermann Reagents	26	2.76	0.10	3.6	2.8	2.3 - 3.2	26	5.42	0.20	3.8	5.4	4.6 - 6.3
All Roche Reagents	23	2.72	0.11	4.1	2.7	2.3 - 3.2	24	5.57	0.29	5.1	5.5	4.7 - 6.5
All VITROS Reagents	25	2.96	0.09	2.9	2.9	2.5 - 3.4	25	7.00	0.15	2.2	7.0	5.9 - 8.1
Abaxis Piccolo												
Abaxis Piccolo - waived	15	2.89	0.14	4.9	2.9	2.4 - 3.4	15	6.02	0.15	2.5	6.1	5.1 - 7.0
All Chemistry Instruments	17	2.87	0.15	5.2	2.9	2.4 - 3.4	17	5.99	0.17	2.8	6.1	5.0 - 6.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	2.76	0.10	3.6	2.8	2.3 - 3.2	26	5.42	0.20	3.8	5.4	4.6 - 6.3
Beckman AU												
Beckman AU systems	32	2.75	0.09	3.2	2.8	2.3 - 3.2	30	5.52	0.10	1.7	5.5	4.6 - 6.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	2.62	0.12	4.7	2.6	2.2 - 3.1	17	5.33	0.24	4.4	5.3	4.5 - 6.2
Roche Integra												
Roche Integra	13	2.71	0.05	1.8	2.7	2.3 - 3.2	13	5.48	0.12	2.2	5.5	4.6 - 6.4
Siemens Healthcare												
Siemens Dimension	23	2.84	0.06	2.1	2.8	2.4 - 3.3	23	5.90	0.11	1.9	5.9	5.0 - 6.8
All Chemistry Instruments	24	2.85	0.06	2.1	2.9	2.4 - 3.3	24	5.90	0.11	1.9	5.9	5.0 - 6.8
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	14	2.96	0.06	2.2	3.0	2.5 - 3.5	14	7.01	0.12	1.7	7.0	5.9 - 8.1
All Chemistry Instruments	19	2.95	0.08	2.9	2.9	2.5 - 3.4	19	6.97	0.17	2.4	7.0	5.9 - 8.1

Creatinine (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	168	0.58	0.10	16.7	0.6	0.2 - 0.9	168	4.84	0.38	7.8	4.8	4.1 - 5.6
All Alfa Wassermann Reagents	26	0.73	0.07	9.3	0.7	0.4 - 1.1	26	4.55	0.18	4.0	4.6	3.8 - 5.3
All Roche Reagents	24	0.56	0.08	13.7	0.6	0.2 - 0.9	24	4.58	0.30	6.5	4.5	3.8 - 5.3
All VITROS Reagents	25	0.56	0.06	10.1	0.6	0.2 - 0.9	25	5.39	0.16	3.0	5.4	4.5 - 6.2
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	0.6	0.2 - 0.9	5	-	-	-	5.0	4.1 - 5.6
All Chemistry Instruments	6	-	-	-	0.6	0.3 - 0.9	6	-	-	-	5.0	4.2 - 5.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	0.73	0.07	9.3	0.7	0.4 - 1.1	26	4.55	0.18	4.0	4.6	3.8 - 5.3
Beckman AU												
Beckman AU systems	30	0.52	0.04	7.8	0.5	0.2 - 0.9	32	4.76	0.19	3.9	4.8	4.0 - 5.5
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	0.51	0.08	15.3	0.5	0.2 - 0.9	17	4.58	0.20	4.4	4.6	3.8 - 5.3
Roche Integra												
Roche Integra	13	0.58	0.04	7.6	0.6	0.2 - 0.9	13	4.48	0.11	2.4	4.5	3.8 - 5.2
Siemens Healthcare												
Siemens Dimension	23	0.53	0.05	8.9	0.5	0.2 - 0.9	23	5.13	0.13	2.6	5.1	4.3 - 5.9
All Chemistry Instruments	24	0.53	0.05	10.1	0.5	0.2 - 0.9	24	5.14	0.13	2.6	5.2	4.3 - 6.0
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	14	0.56	0.06	11.2	0.6	0.2 - 0.9	14	5.40	0.10	1.8	5.4	4.5 - 6.3
All Chemistry Instruments	19	0.57	0.06	10.2	0.6	0.2 - 0.9	19	5.37	0.16	3.0	5.4	4.5 - 6.2

Creatinine (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	165	1.73	0.09	5.1	1.7	1.4 - 2.1
All Alfa Wassermann Reagents	26	1.81	0.07	4.1	1.8	1.5 - 2.2
All Roche Reagents	24	1.71	0.10	6.0	1.7	1.4 - 2.1
All VITROS Reagents	25	1.78	0.06	3.4	1.8	1.4 - 2.1
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	1.8	1.4 - 2.1
All Chemistry Instruments	6	-	-	-	1.8	1.4 - 2.1
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	26	1.81	0.07	4.1	1.8	1.5 - 2.2
Beckman AU						
Beckman AU systems	32	1.68	0.06	3.3	1.7	1.3 - 2.0
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	1.63	0.12	7.1	1.7	1.3 - 2.0
Roche Integra						
Roche Integra	13	1.72	0.10	5.8	1.7	1.4 - 2.1
Siemens Healthcare						
Siemens Dimension	23	1.73	0.06	3.2	1.7	1.4 - 2.1
All Chemistry Instruments	24	1.73	0.06	3.2	1.7	1.4 - 2.1
VITROS - CREA						
VITROS 250,350,400 500,700,750,950	14	1.78	0.06	3.3	1.8	1.4 - 2.1
All Chemistry Instruments	19	1.76	0.06	3.4	1.8	1.4 - 2.1

Glucose (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	187	143.3	5.5	3.8	143	128 - 158	187	49.3	4.8	9.8	50	43 - 56
All Alfa Wassermann Reagents	27	150.0	4.7	3.1	151	135 - 165	27	55.7	1.6	2.9	56	49 - 62
All Horiba Pentra Reagents	17	139.5	4.3	3.1	139	125 - 154	17	45.2	2.7	5.9	45	39 - 52
All Roche Reagents	24	143.9	3.8	2.6	145	129 - 159	24	46.4	1.1	2.3	46	40 - 53
Abaxis Piccolo												
Abaxis Piccolo - waived	15	140.9	2.2	1.5	141	126 - 155	15	50.3	1.4	2.9	50	44 - 57
All Chemistry Instruments	17	140.7	2.1	1.5	141	126 - 155	17	50.8	1.9	3.7	51	44 - 57
Abbott Architect												
Abbott Architect	5	136.8	1.6	1.2	136	123 - 151	5	44.0	1.0	2.3	44	38 - 50
Alere Cholestech LDX												
Alere Cholestech LDX - waived	6	135.3	6.4	4.8	134	121 - 149	6	51.8	0.8	1.5	52	45 - 58
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	27	150.0	4.7	3.1	151	135 - 165	27	55.7	1.6	2.9	56	49 - 62
Beckman AU												
Beckman AU systems	31	144.8	5.3	3.7	145	130 - 160	30	42.5	1.4	3.4	42	36 - 49
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	139.5	4.3	3.1	139	125 - 154	17	45.2	2.7	5.9	45	39 - 52
Roche cobas c 501												
Roche cobas 6000 / c 501	9	140.6	2.8	2.0	140	126 - 155	9	45.8	1.1	2.4	46	39 - 52
Roche Integra												
Roche Integra	13	146.0	2.5	1.7	145	131 - 161	13	46.8	0.8	1.8	47	40 - 53
Siemens Healthcare												
Siemens Dimension	22	144.4	1.9	1.3	144	129 - 159	23	53.8	1.6	3.1	53	47 - 60
All Chemistry Instruments	24	144.5	2.6	1.8	144	130 - 159	24	53.7	1.7	3.2	53	47 - 60
VITROS												
VITROS 250,350,400 500,700,750,950	19	138.9	2.3	1.7	139	125 - 153	19	50.6	1.6	3.2	51	44 - 57
All Chemistry Instruments	25	139.2	2.4	1.7	139	125 - 154	25	50.7	1.5	2.9	51	44 - 57

Glucose (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	170	46.4	3.4	7.3	47	40 - 53	170	242.0	7.8	3.2	242	217 - 267
All Alfa Wassermann Reagents	26	51.0	0.9	1.8	51	45 - 57	27	248.4	6.4	2.6	250	223 - 274
All Horiba Pentra Reagents	17	44.6	2.4	5.5	45	38 - 51	17	234.4	8.6	3.7	237	210 - 258
All Roche Reagents	24	46.2	1.2	2.7	46	40 - 53	24	240.5	5.3	2.2	240	216 - 265
Abaxis Piccolo												
Abaxis Piccolo - waived	5	51.2	1.9	3.8	52	45 - 58	5	234.6	3.1	1.3	236	211 - 259
All Chemistry Instruments	6	51.0	1.8	3.5	52	45 - 57	6	234.0	3.2	1.4	235	210 - 258
Abbott Architect												
Abbott Architect	5	43.4	0.5	1.3	43	37 - 50	5	232.6	4.2	1.8	231	209 - 256
Alere Cholestech LDX												
Alere Cholestech LDX - waived	1	-	-	-	50	40 - 53	1	-	-	-	229	217 - 267
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	51.0	0.9	1.8	51	45 - 57	27	248.4	6.4	2.6	250	223 - 274
Beckman AU												
Beckman AU systems	31	46.9	1.7	3.7	47	40 - 53	31	242.3	8.0	3.3	240	218 - 267
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	44.6	2.4	5.5	45	38 - 51	17	234.4	8.6	3.7	237	210 - 258
Roche cobas c 501												
Roche cobas 6000 / c 501	9	45.2	1.1	2.4	45	39 - 52	9	237.3	5.6	2.4	239	213 - 262
Roche Integra												
Roche Integra	13	46.8	0.9	1.9	47	40 - 53	13	242.2	4.2	1.7	242	218 - 267
Siemens Healthcare												
Siemens Dimension	23	46.7	1.0	2.2	47	40 - 53	23	241.7	4.1	1.7	241	217 - 266
All Chemistry Instruments	24	46.6	1.2	2.7	47	40 - 53	24	241.3	4.4	1.8	241	217 - 266
VITROS												
VITROS 250,350,400 500,700,750,950	19	40.9	1.6	3.9	41	34 - 47	19	245.3	4.6	1.9	245	220 - 270
All Chemistry Instruments	25	41.0	1.5	3.6	41	34 - 47	25	245.8	4.6	1.9	246	221 - 271

Glucose (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	168	96.2	4.3	4.4	96	86 - 106
All Alfa Wassermann Reagents	27	102.4	2.7	2.6	102	92 - 113
All Horiba Pentra Reagents	17	93.2	3.9	4.2	95	83 - 103
All Roche Reagents	23	95.8	2.4	2.5	96	86 - 106
Abaxis Piccolo						
Abaxis Piccolo - waived	5	96.0	2.3	2.4	95	86 - 106
All Chemistry Instruments	6	95.8	2.1	2.2	95	86 - 106
Abbott Architect						
Abbott Architect	5	91.2	0.8	0.9	91	82 - 101
Alere Cholestech LDX						
Alere Cholestech LDX - waived	1	-	-	-	87	86 - 106
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	27	102.4	2.7	2.6	102	92 - 113
Beckman AU						
Beckman AU systems	31	96.7	3.1	3.2	96	87 - 107
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	93.2	3.9	4.2	95	83 - 103
Roche cobas c 501						
Roche cobas 6000 / c 501	9	93.7	1.8	1.9	93	84 - 104
Roche Integra						
Roche Integra	12	97.3	1.4	1.5	97	87 - 108
Siemens Healthcare						
Siemens Dimension	22	96.2	2.0	2.0	96	86 - 106
All Chemistry Instruments	23	96.0	2.2	2.3	96	86 - 106
VITROS						
VITROS 250,350,400 500,700,750,950	19	92.3	2.2	2.3	92	83 - 102
All Chemistry Instruments	25	92.4	2.2	2.3	92	83 - 102

Iron (µg/dL)

Reagent/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	71	120.7	9.0	7.4	120	96 - 145	70	185.5	16.3	8.8	182	148 - 223
All Alfa Wassermann Reagents	5	110.6	0.9	0.8	110	88 - 133	5	169.0	4.4	2.6	168	135 - 203
All Roche Reagents	10	120.5	4.2	3.5	121	96 - 145	10	179.5	4.3	2.4	180	143 - 216
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	5	110.6	0.9	0.8	110	88 - 133	5	169.0	4.4	2.6	168	135 - 203
Beckman AU												
Beckman AU systems	19	129.2	3.8	3.0	130	103 - 155	19	191.3	6.1	3.2	192	153 - 230
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	109.9	4.7	4.3	109	87 - 132	7	174.4	6.4	3.7	174	139 - 210
Roche cobas c 501												
Roche cobas 6000 / c 501	6	122.5	2.7	2.2	123	98 - 147	6	180.3	3.8	2.1	181	144 - 217
Siemens Healthcare												
Siemens Dimension	14	115.4	2.4	2.1	115	92 - 139	14	174.8	1.7	1.0	175	139 - 210
VITROS												
All Chemistry Instruments	8	132.1	4.4	3.3	132	105 - 159	8	228.6	6.4	2.8	226	182 - 275

Reagent/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	70	31.0	3.2	10.5	31	24 - 38	71	213.9	18.7	8.7	209	171 - 257
All Alfa Wassermann Reagents	5	29.0	2.0	6.9	30	23 - 35	5	191.2	2.8	1.5	190	152 - 230
All Roche Reagents	10	33.6	4.7	14.1	35	26 - 41	10	211.3	5.4	2.6	212	169 - 254
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	5	29.0	2.0	6.9	30	23 - 35	5	191.2	2.8	1.5	190	152 - 230
Beckman AU												
Beckman AU systems	19	32.5	3.1	9.5	33	26 - 40	19	230.4	5.0	2.2	232	184 - 277
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	29.0	3.4	11.8	29	23 - 35	7	193.6	6.8	3.5	191	154 - 233
Roche cobas c 501												
Roche cobas 6000 / c 501	6	35.3	4.8	13.7	35	28 - 43	6	211.7	5.7	2.7	211	169 - 255
Siemens Healthcare												
Siemens Dimension	14	31.1	1.0	3.2	31	24 - 38	14	199.6	2.7	1.4	200	159 - 240
VITROS												
All Chemistry Instruments	8	27.8	3.8	13.6	28	22 - 34	8	244.9	8.9	3.6	243	195 - 294

Iron (µg/dL)

		Specimen CH-5				
All Method	71	76.8	4.9	6.4	77	61 - 93
All Alfa Wassermann Reagents	5	71.8	2.5	3.5	72	57 - 87
All Roche Reagents	10	78.2	3.2	4.1	79	62 - 94
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	5	71.8	2.5	3.5	72	57 - 87
Beckman AU						
Beckman AU systems	18	81.8	2.4	2.9	82	65 - 99
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	7	69.7	3.7	5.3	69	55 - 84
Roche cobas c 501						
Roche cobas 6000 / c 501	6	80.2	1.8	2.3	79	64 - 97
Siemens Healthcare						
Siemens Dimension	14	74.0	1.7	2.2	74	59 - 89
VITROS						
All Chemistry Instruments	8	80.6	3.0	3.7	81	64 - 97

Lactate (Lactic Acid) (mmol/L)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	7	3.50	0.26	7.5	3.5	2.7 - 4.3	7	0.22	0.08	34.7	0.2	0.0 - 0.5
Siemens Healthcare												
Siemens Dimension	5	3.53	0.33	9.4	3.6	2.5 - 4.6	5	0.23	0.10	42.6	0.3	0.0 - 0.6

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	7	0.32	0.04	12.9	0.3	0.1 - 0.5	7	6.80	0.15	2.3	6.8	6.3 - 7.3
Siemens Healthcare												
Siemens Dimension	5	0.33	0.05	15.4	0.3	0.1 - 0.5	5	6.80	0.18	2.7	6.8	6.2 - 7.4

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	7	1.93	0.10	5.3	1.9	1.6 - 2.3
Siemens Healthcare						
Siemens Dimension	5	1.90	0.08	4.3	1.9	1.6 - 2.2

Magnesium (mg/dL)

Reagent/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	92	2.98	0.16	5.4	3.0	2.2 - 3.8	91	1.39	0.10	7.5	1.4	1.0 - 1.8
All Horiba Pentra Reagents	15	2.83	0.14	4.9	2.8	2.1 - 3.6	14	1.39	0.14	10.1	1.4	1.0 - 1.8
All Roche Reagents	18	2.92	0.10	3.4	2.9	2.1 - 3.7	18	1.42	0.09	6.1	1.4	1.0 - 1.8
Beckman AU												
Beckman AU systems	17	2.98	0.07	2.2	3.0	2.2 - 3.8	16	1.41	0.04	3.1	1.4	1.0 - 1.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	2.83	0.14	4.9	2.8	2.1 - 3.6	14	1.39	0.14	10.1	1.4	1.0 - 1.8
Roche Integra												
Roche Integra	10	2.90	0.11	3.6	2.9	2.1 - 3.7	10	1.41	0.10	7.1	1.4	1.0 - 1.8
Siemens Healthcare												
Siemens Dimension	14	3.04	0.06	2.1	3.0	2.2 - 3.8	14	1.42	0.04	3.0	1.4	1.0 - 1.8
VITROS												
All Chemistry Instruments	13	3.26	0.16	4.8	3.3	2.4 - 4.1	13	1.32	0.10	7.5	1.3	0.9 - 1.7

Magnesium (mg/dL)

Reagent/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	92	1.36	0.10	7.4	1.4	1.0 - 1.8	93	4.56	0.28	6.0	4.6	3.4 - 5.8
All Horiba Pentra Reagents	15	1.29	0.11	8.2	1.3	0.9 - 1.7	15	4.27	0.23	5.4	4.2	3.2 - 5.4
All Roche Reagents	18	1.33	0.06	4.5	1.3	0.9 - 1.7	18	4.47	0.14	3.0	4.5	3.3 - 5.6
Beckman AU												
Beckman AU systems	17	1.35	0.05	3.8	1.3	1.0 - 1.7	17	4.55	0.09	2.1	4.5	3.4 - 5.7
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	1.29	0.11	8.2	1.3	0.9 - 1.7	15	4.27	0.23	5.4	4.2	3.2 - 5.4
Roche Integra												
Roche Integra	10	1.32	0.06	4.8	1.3	0.9 - 1.7	10	4.42	0.14	3.2	4.4	3.3 - 5.6
Siemens Healthcare												
Siemens Dimension	14	1.39	0.07	4.8	1.4	1.0 - 1.8	14	4.76	0.10	2.1	4.7	3.5 - 6.0
VITROS												
All Chemistry Instruments	13	1.48	0.10	6.9	1.5	1.1 - 1.9	13	4.97	0.18	3.7	5.0	3.7 - 6.3

Reagent/Instrument	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	93	2.20	0.14	6.3	2.2	1.6 - 2.8
All Horiba Pentra Reagents	15	2.09	0.12	6.0	2.1	1.5 - 2.7
All Roche Reagents	18	2.16	0.09	4.0	2.2	1.6 - 2.7
Beckman AU						
Beckman AU systems	17	2.19	0.04	2.0	2.2	1.6 - 2.8
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	15	2.09	0.12	6.0	2.1	1.5 - 2.7
Roche Integra						
Roche Integra	10	2.15	0.08	4.0	2.2	1.6 - 2.7
Siemens Healthcare						
Siemens Dimension	14	2.26	0.09	4.2	2.3	1.6 - 2.9
VITROS						
All Chemistry Instruments	13	2.40	0.14	5.6	2.4	1.8 - 3.0

Phosphorus (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	71	3.89	0.15	3.9	3.9	3.5 - 4.3	70	1.97	0.25	12.4	1.9	1.6 - 2.3
All Roche Reagents	14	3.81	0.10	2.7	3.8	3.4 - 4.2	14	1.77	0.13	7.2	1.7	1.4 - 2.1
Beckman AU												
Beckman AU systems	16	3.89	0.10	2.6	3.9	3.5 - 4.3	15	1.85	0.12	6.4	1.8	1.5 - 2.2
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	4.14	0.07	1.8	4.2	3.7 - 4.6	8	2.16	0.24	11.3	2.2	1.8 - 2.5
Roche cobas c 501												
Roche cobas 6000 / c 501	5	3.82	0.11	2.9	3.9	3.4 - 4.3	5	1.80	0.14	7.9	1.7	1.5 - 2.1
Roche Integra												
Roche Integra	8	3.81	0.11	3.0	3.8	3.4 - 4.2	8	1.75	0.13	7.5	1.7	1.4 - 2.1
Siemens Healthcare												
Siemens Dimension	11	3.91	0.08	2.1	3.9	3.5 - 4.4	11	2.00	0.14	7.1	2.0	1.7 - 2.3
VITROS												
VITROS 250,350,400 500,700,750,950	6	3.92	0.12	3.0	3.9	3.5 - 4.4	6	2.30	0.15	6.7	2.3	2.0 - 2.6
All Chemistry Instruments	10	3.91	0.10	2.5	3.9	3.5 - 4.4	10	2.35	0.14	5.8	2.4	2.0 - 2.7

	Specimen CH-3						Specimen CH-4					
All Method	71	1.75	0.12	7.0	1.7	1.4 - 2.1	69	6.03	0.28	4.7	6.0	5.4 - 6.7
All Roche Reagents	14	1.71	0.09	5.0	1.7	1.4 - 2.1	14	5.93	0.13	2.2	5.9	5.3 - 6.6
Beckman AU												
Beckman AU systems	15	1.67	0.07	4.2	1.7	1.3 - 2.0	15	6.11	0.21	3.4	6.1	5.4 - 6.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	1.83	0.07	3.9	1.8	1.5 - 2.2	8	6.23	0.68	11.0	6.5	5.6 - 6.9
Roche cobas c 501												
Roche cobas 6000 / c 501	5	1.70	0.10	5.9	1.7	1.4 - 2.0	5	6.00	0.10	1.7	6.0	5.4 - 6.6
Roche Integra												
Roche Integra	8	1.74	0.07	4.3	1.8	1.4 - 2.1	8	5.89	0.15	2.5	5.9	5.2 - 6.5
Siemens Healthcare												
Siemens Dimension	11	1.68	0.10	5.8	1.7	1.3 - 2.0	11	6.07	0.14	2.3	6.0	5.4 - 6.7
VITROS												
VITROS 250,350,400 500,700,750,950	6	1.88	0.17	9.1	1.9	1.5 - 2.2	6	6.17	0.15	2.4	6.2	5.5 - 6.8
All Chemistry Instruments	10	1.90	0.13	7.0	1.9	1.6 - 2.2	10	6.10	0.19	3.1	6.2	5.4 - 6.8

Phosphorus (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	71	2.85	0.14	4.9	2.8	2.5 - 3.2
All Roche Reagents	14	2.78	0.10	3.5	2.8	2.4 - 3.1
Beckman AU						
Beckman AU systems	16	2.84	0.14	4.8	2.8	2.5 - 3.2
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	8	3.03	0.07	2.3	3.0	2.7 - 3.4
Roche cobas c 501						
Roche cobas 6000 / c 501	5	2.78	0.13	4.7	2.8	2.4 - 3.1
Roche Integra						
Roche Integra	8	2.79	0.08	3.0	2.8	2.4 - 3.1
Siemens Healthcare						
Siemens Dimension	11	2.81	0.07	2.5	2.8	2.5 - 3.2
VITROS						
VITROS 250,350,400 500,700,750,950	6	3.00	0.13	4.2	3.0	2.7 - 3.3
All Chemistry Instruments	10	2.99	0.10	3.3	3.0	2.6 - 3.3

Protein, Total (g/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	173	6.04	0.20	3.2	6.0	5.4 - 6.7	168	11.83	0.47	4.0	11.8	10.6 - 13.1
All Alfa Wassermann Reagents	25	6.14	0.16	2.7	6.1	5.5 - 6.8	23	11.81	0.31	2.6	11.8	10.6 - 13.0
All Horiba Pentra Reagents	17	6.09	0.16	2.7	6.0	5.4 - 6.7	17	11.70	0.34	2.9	11.7	10.5 - 12.9
All Roche Reagents	23	5.97	0.16	2.8	6.0	5.3 - 6.6	24	11.36	0.40	3.5	11.3	10.2 - 12.5
Abaxis Piccolo												
Abaxis Piccolo - waived	15	6.02	0.07	1.1	6.0	5.4 - 6.7	15	12.03	0.26	2.1	12.0	10.8 - 13.3
All Chemistry Instruments	17	6.01	0.07	1.2	6.0	5.4 - 6.7	17	12.03	0.24	2.0	12.0	10.8 - 13.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	6.14	0.16	2.7	6.1	5.5 - 6.8	23	11.81	0.31	2.6	11.8	10.6 - 13.0
Beckman AU												
Beckman AU systems	30	5.97	0.11	1.9	6.0	5.3 - 6.6	28	11.64	0.23	2.0	11.7	10.4 - 12.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	6.09	0.16	2.7	6.0	5.4 - 6.7	17	11.70	0.34	2.9	11.7	10.5 - 12.9
Roche Integra												
Roche Integra	13	5.82	0.20	3.4	5.8	5.2 - 6.5	13	11.15	0.40	3.5	11.2	10.0 - 12.3
Siemens Healthcare												
Siemens Dimension	22	6.30	0.10	1.7	6.3	5.6 - 7.0	22	12.51	0.24	1.9	12.6	11.2 - 13.8
VITROS												
VITROS 250,350,400 500,700,750,950	19	5.87	0.13	2.3	5.8	5.2 - 6.5	18	11.96	0.39	3.3	12.0	10.7 - 13.2
All Chemistry Instruments	24	5.87	0.15	2.6	5.8	5.2 - 6.5	23	11.91	0.46	3.9	12.0	10.7 - 13.2

Protein, Total (g/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	161	2.76	0.12	4.5	2.8	2.4 - 3.1	163	9.29	0.33	3.6	9.3	8.3 - 10.3
All Alfa Wassermann Reagents	24	2.78	0.08	3.0	2.8	2.5 - 3.1	25	9.48	0.22	2.3	9.5	8.5 - 10.5
All Horiba Pentra Reagents	17	2.74	0.05	1.9	2.7	2.4 - 3.1	17	9.37	0.23	2.5	9.4	8.4 - 10.4
All Roche Reagents	24	2.70	0.13	4.6	2.7	2.4 - 3.0	24	9.05	0.28	3.1	9.1	8.1 - 10.0
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	2.9	2.4 - 3.1	5	-	-	-	9.3	8.3 - 10.3
All Chemistry Instruments	6	-	-	-	2.9	2.5 - 3.2	6	-	-	-	9.4	8.3 - 10.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	2.78	0.08	3.0	2.8	2.5 - 3.1	25	9.48	0.22	2.3	9.5	8.5 - 10.5
Beckman AU												
Beckman AU systems	30	2.76	0.16	5.7	2.7	2.4 - 3.1	30	9.19	0.20	2.2	9.2	8.2 - 10.2
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	2.74	0.05	1.9	2.7	2.4 - 3.1	17	9.37	0.23	2.5	9.4	8.4 - 10.4
Roche Integra												
Roche Integra	13	2.63	0.13	4.8	2.6	2.3 - 2.9	13	8.90	0.26	3.0	8.9	8.0 - 9.8
Siemens Healthcare												
Siemens Dimension	22	2.85	0.07	2.6	2.9	2.5 - 3.2	22	9.73	0.14	1.5	9.8	8.7 - 10.8
VITROS												
VITROS 250,350,400 500,700,750,950	19	2.81	0.08	3.0	2.8	2.5 - 3.1	19	9.11	0.30	3.3	9.0	8.1 - 10.1
All Chemistry Instruments	24	2.79	0.09	3.3	2.8	2.5 - 3.1	24	9.09	0.31	3.4	9.1	8.1 - 10.0

Protein, Total (g/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	161	4.45	0.16	3.7	4.5	4.0 - 4.9
All Alfa Wassermann Reagents	24	4.54	0.14	3.0	4.5	4.0 - 5.0
All Horiba Pentra Reagents	17	4.48	0.14	3.1	4.5	4.0 - 5.0
All Roche Reagents	24	4.36	0.18	4.2	4.4	3.9 - 4.8
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	4.5	4.0 - 4.9
All Chemistry Instruments	6	-	-	-	4.5	4.0 - 5.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	4.54	0.14	3.0	4.5	4.0 - 5.0
Beckman AU						
Beckman AU systems	30	4.37	0.09	2.1	4.4	3.9 - 4.9
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	4.48	0.14	3.1	4.5	4.0 - 5.0
Roche Integra						
Roche Integra	13	4.26	0.18	4.1	4.3	3.8 - 4.7
Siemens Healthcare						
Siemens Dimension	22	4.62	0.09	1.9	4.6	4.1 - 5.1
VITROS						
VITROS 250,350,400 500,700,750,950	19	4.44	0.14	3.2	4.4	3.9 - 4.9
All Chemistry Instruments	24	4.43	0.15	3.4	4.4	3.9 - 4.9

Urea Nitrogen (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	178	24.3	1.8	7.5	25	22 - 27	176	6.7	0.8	12.1	7	4 - 9
All Alfa Wassermann Reagents	26	24.8	0.9	3.6	25	22 - 28	25	6.4	0.5	7.8	6	4 - 9
All Horiba Pentra Reagents	17	22.8	1.0	4.3	23	20 - 25	16	6.4	0.6	9.8	7	4 - 9
All Roche Reagents	24	24.8	0.8	3.4	25	22 - 27	24	6.9	0.4	5.9	7	4 - 9
Abaxis Piccolo												
Abaxis Piccolo - waived	15	23.6	0.6	2.7	24	21 - 26	15	7.5	0.6	8.6	7	5 - 10
All Chemistry Instruments	17	23.6	0.6	2.6	24	21 - 26	17	7.4	0.6	8.3	7	5 - 10
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	24.8	0.9	3.6	25	22 - 28	25	6.4	0.5	7.8	6	4 - 9
Beckman AU												
Beckman AU systems	30	25.9	0.8	3.2	26	23 - 29	30	7.2	0.4	5.3	7	5 - 10
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	22.8	1.0	4.3	23	20 - 25	16	6.4	0.6	9.8	7	4 - 9
Roche Integra												
Roche Integra	13	24.7	0.8	3.0	25	22 - 27	13	7.0	0.4	5.8	7	5 - 9
Siemens Healthcare												
Siemens Dimension	23	25.7	0.8	3.2	26	23 - 29	23	7.1	0.8	10.6	7	5 - 10
All Chemistry Instruments	24	25.6	1.0	3.8	26	23 - 28	24	7.1	0.7	10.4	7	5 - 10
VITROS												
VITROS 250,350,400 500,700,750,950	19	21.2	0.8	3.9	21	19 - 24	19	5.5	0.5	9.3	6	3 - 8
All Chemistry Instruments	25	21.1	0.8	3.6	21	19 - 24	25	5.4	0.5	9.3	5	3 - 8

Urea Nitrogen (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	163	6.4	0.8	12.9	7	4 - 9	167	42.7	3.0	7.0	43	38 - 47
All Alfa Wassermann Reagents	24	6.6	0.6	9.8	7	4 - 9	26	43.5	1.4	3.1	44	39 - 48
All Horiba Pentra Reagents	15	5.9	0.4	6.0	6	3 - 8	17	40.6	1.3	3.3	41	36 - 45
All Roche Reagents	24	6.5	0.5	7.9	7	4 - 9	24	43.6	1.8	4.1	44	39 - 48
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	7	4 - 9	5	-	-	-	42	38 - 47
All Chemistry Instruments	6	-	-	-	7	4 - 9	6	-	-	-	43	38 - 47
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	6.6	0.6	9.8	7	4 - 9	26	43.5	1.4	3.1	44	39 - 48
Beckman AU												
Beckman AU systems	30	6.9	0.4	5.3	7	4 - 9	30	45.0	2.0	4.4	45	40 - 50
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	5.9	0.4	6.0	6	3 - 8	17	40.6	1.3	3.3	41	36 - 45
Roche Integra												
Roche Integra	13	6.6	0.5	7.7	7	4 - 9	13	43.9	2.1	4.8	44	39 - 48
Siemens Healthcare												
Siemens Dimension	23	6.8	0.5	7.6	7	4 - 9	23	44.9	1.4	3.1	45	40 - 49
All Chemistry Instruments	24	6.8	0.5	7.9	7	4 - 9	24	44.7	1.7	3.8	45	40 - 49
VITROS												
VITROS 250,350,400 500,700,750,950	18	5.0	0.1	0.0	5	3 - 7	19	37.7	1.2	3.2	38	34 - 42
All Chemistry Instruments	25	5.0	0.4	7.1	5	2 - 7	25	37.6	1.1	3.0	37	34 - 41

Urea Nitrogen (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	165	15.6	1.3	8.2	16	13 - 18
All Alfa Wassermann Reagents	26	16.0	0.5	3.3	16	14 - 19
All Horiba Pentra Reagents	17	14.4	1.2	8.2	15	12 - 17
All Roche Reagents	23	15.8	0.5	3.1	16	13 - 18
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	15	13 - 18
All Chemistry Instruments	6	-	-	-	15	12 - 17
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	26	16.0	0.5	3.3	16	14 - 19
Beckman AU						
Beckman AU systems	30	16.5	0.7	4.4	16	14 - 19
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	14.4	1.2	8.2	15	12 - 17
Roche Integra						
Roche Integra	12	15.9	0.5	3.2	16	13 - 18
Siemens Healthcare						
Siemens Dimension	23	16.3	0.7	4.2	16	14 - 19
All Chemistry Instruments	24	16.2	0.7	4.4	16	14 - 19
VITROS						
VITROS 250,350,400 500,700,750,950	19	13.5	0.6	4.5	13	11 - 16
All Chemistry Instruments	25	13.4	0.6	4.3	13	11 - 16

Uric Acid (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	115	6.27	0.25	4.0	6.3	5.2 - 7.4	117	2.02	0.44	21.9	1.9	1.6 - 2.4
All Alfa Wassermann Reagents	16	6.40	0.26	4.1	6.5	5.3 - 7.5	16	2.97	0.15	5.2	3.0	2.4 - 3.5
All Roche Reagents	20	6.14	0.18	2.9	6.1	5.0 - 7.2	20	1.72	0.05	3.0	1.7	1.4 - 2.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	6.40	0.26	4.1	6.5	5.3 - 7.5	16	2.97	0.15	5.2	3.0	2.4 - 3.5
Beckman AU												
Beckman AU systems	22	6.35	0.11	1.7	6.3	5.2 - 7.5	22	1.82	0.04	2.4	1.8	1.5 - 2.2
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	10	6.16	0.22	3.5	6.2	5.1 - 7.3	10	1.70	0.18	10.4	1.7	1.4 - 2.0
Roche Integra												
Roche Integra	10	6.24	0.16	2.6	6.3	5.1 - 7.4	10	1.73	0.07	3.9	1.7	1.4 - 2.1
Siemens Healthcare												
Siemens Dimension	18	6.07	0.11	1.9	6.1	5.0 - 7.1	18	1.98	0.14	6.8	2.0	1.6 - 2.4
All Chemistry Instruments	19	6.09	0.15	2.4	6.1	5.0 - 7.2	19	1.97	0.14	7.0	2.0	1.6 - 2.4
VITROS												
VITROS 250,350,400 500,700,750,950	10	6.34	0.12	1.9	6.4	5.2 - 7.5	10	2.04	0.18	9.0	2.0	1.6 - 2.4
All Chemistry Instruments	14	6.34	0.12	1.9	6.4	5.2 - 7.5	14	2.01	0.17	8.2	2.0	1.6 - 2.4

	Specimen CH-3						Specimen CH-4					
All Method	117	1.94	0.42	21.7	1.8	1.6 - 2.3	116	10.58	0.53	5.0	10.6	8.7 - 12.4
All Alfa Wassermann Reagents	16	2.84	0.20	7.0	2.9	2.3 - 3.4	16	10.34	0.50	4.8	10.6	8.5 - 12.1
All Roche Reagents	20	1.70	0.06	3.8	1.7	1.4 - 2.0	20	10.42	0.33	3.2	10.4	8.6 - 12.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	2.84	0.20	7.0	2.9	2.3 - 3.4	16	10.34	0.50	4.8	10.6	8.5 - 12.1
Beckman AU												
Beckman AU systems	23	1.89	0.06	3.3	1.9	1.5 - 2.3	23	10.80	0.25	2.3	10.8	8.9 - 12.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	1.71	0.16	9.3	1.7	1.4 - 2.1	10	10.53	0.38	3.6	10.5	8.7 - 12.4
Roche Integra												
Roche Integra	10	1.72	0.06	3.7	1.7	1.4 - 2.1	10	10.66	0.24	2.2	10.8	8.8 - 12.5
Siemens Healthcare												
Siemens Dimension	18	1.77	0.14	8.0	1.8	1.4 - 2.1	18	10.13	0.28	2.7	10.2	8.4 - 11.9
All Chemistry Instruments	19	1.77	0.14	7.9	1.8	1.4 - 2.1	19	10.16	0.30	3.0	10.2	8.4 - 11.9
VITROS												
VITROS 250,350,400 500,700,750,950	10	1.73	0.08	4.8	1.8	1.4 - 2.1	10	11.03	0.26	2.4	11.1	9.1 - 13.0
All Chemistry Instruments	14	1.71	0.09	5.5	1.7	1.4 - 2.1	14	11.00	0.25	2.3	11.0	9.1 - 12.9

Uric Acid (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	114	4.11	0.22	5.4	4.1	3.4 - 4.9
All Alfa Wassermann Reagents	16	4.44	0.14	3.1	4.5	3.6 - 5.2
All Roche Reagents	20	3.96	0.13	3.3	3.9	3.2 - 4.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	4.44	0.14	3.1	4.5	3.6 - 5.2
Beckman AU						
Beckman AU systems	23	4.12	0.08	1.9	4.1	3.4 - 4.9
Horiba ABX Pentra						
Horiba ABX Pentra 400	10	3.98	0.18	4.6	4.0	3.3 - 4.7
Roche Integra						
Roche Integra	10	4.05	0.10	2.4	4.1	3.3 - 4.8
Siemens Healthcare						
Siemens Dimension	18	3.91	0.11	2.9	3.9	3.2 - 4.6
All Chemistry Instruments	19	3.94	0.16	4.0	3.9	3.2 - 4.7
VITROS						
VITROS 250,350,400 500,700,750,950	10	4.12	0.10	2.5	4.2	3.4 - 4.9
All Chemistry Instruments	14	4.09	0.11	2.7	4.1	3.3 - 4.8

Chloride (mmol/L)

Method/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	171	104.6	2.9	2.8	104	99 - 110	173	88.7	4.3	4.9	89	84 - 94
Abaxis Piccolo												
Abaxis Piccolo - waived	15	109.3	1.7	1.6	109	103 - 115	15	98.0	2.4	2.5	98	93 - 103
All Chemistry Instruments	17	109.2	1.7	1.6	109	103 - 115	17	97.9	2.3	2.4	98	92 - 103
ISE Diluted												
Beckman AU systems	30	102.4	1.3	1.3	102	97 - 108	30	88.9	1.1	1.2	89	84 - 94
Roche Integra	13	109.4	4.4	4.0	108	103 - 115	13	85.5	0.8	0.9	86	81 - 90
Siemens Dimension QuickLyte - Xpand/EXL	16	105.2	2.1	2.0	106	99 - 111	17	82.9	1.5	1.8	83	78 - 88
All Chemistry Instruments	80	104.0	2.6	2.5	103	98 - 110	83	86.8	3.0	3.4	87	82 - 92
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	106.1	1.6	1.5	106	100 - 112	24	89.5	2.0	2.2	90	84 - 94
Horiba ABX Pentra 400 / C400	16	103.1	2.6	2.5	103	97 - 109	16	85.3	2.5	3.0	86	80 - 90
All Chemistry Instruments	49	104.8	2.5	2.4	105	99 - 111	49	87.8	3.4	3.9	88	83 - 93
VITROS												
VITROS 250,350,400 500,700,750,950	19	102.7	1.3	1.2	103	97 - 108	19	91.3	1.6	1.7	92	86 - 96
All Chemistry Instruments	25	102.7	1.3	1.3	103	97 - 108	25	91.4	1.8	1.9	91	86 - 96

Method/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	158	89.2	2.1	2.4	89	84 - 94	160	119.5	4.3	3.6	120	113 - 126
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	97	90 - 101	5	-	-	-	121	114 - 127
All Chemistry Instruments	6	-	-	-	97	90 - 101	6	-	-	-	121	114 - 127
ISE Diluted												
Beckman AU systems	29	89.9	0.8	0.9	90	85 - 95	28	114.8	1.7	1.5	115	109 - 121
Roche Integra	13	91.8	1.8	2.0	91	87 - 97	12	127.1	4.7	3.7	126	120 - 134
Siemens Dimension QuickLyte - Xpand/EXL	17	88.2	1.2	1.3	88	83 - 93	16	123.0	1.6	1.3	123	116 - 130
All Chemistry Instruments	81	89.5	1.7	1.9	90	85 - 94	81	119.1	5.2	4.3	117	113 - 126
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	88.2	1.8	2.1	88	83 - 93	24	122.5	1.5	1.2	123	116 - 129
Horiba ABX Pentra 400 / C400	16	86.5	1.5	1.7	87	82 - 91	16	120.6	4.4	3.7	120	114 - 127
All Chemistry Instruments	49	87.6	2.0	2.3	88	83 - 92	49	121.4	3.7	3.0	122	115 - 128
VITROS												
VITROS 250,350,400 500,700,750,950	19	90.7	1.2	1.4	90	86 - 96	19	117.3	1.8	1.5	117	111 - 124
All Chemistry Instruments	25	90.5	1.2	1.3	90	85 - 96	25	117.3	1.7	1.4	117	111 - 124

Chloride (mmol/L)

Specimen CH-5

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	158	97.0	2.2	2.3	97	92 - 102
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	105	98 - 110
All Chemistry Instruments	6	-	-	-	105	98 - 109
ISE Diluted						
Beckman AU systems	29	96.2	1.0	1.1	96	91 - 102
Roche Integra	13	101.5	3.2	3.1	101	96 - 107
Siemens Dimension QuickLyte - Xpand/EXL	17	96.8	1.5	1.6	97	91 - 102
All Chemistry Instruments	80	96.9	1.9	1.9	97	92 - 102
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	25	97.6	1.9	1.9	97	92 - 103
Horiba ABX Pentra 400 / C400	16	94.7	1.8	1.9	95	89 - 100
All Chemistry Instruments	49	96.4	2.5	2.5	96	91 - 102
VITROS						
VITROS 250,350,400 500,700,750,950	19	97.6	1.7	1.7	98	92 - 103
All Chemistry Instruments	25	97.3	1.6	1.6	97	92 - 103

CO_2 (mmol/L)

Method/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	168	26.2	2.2	8.4	26	20 - 32	169	10.8	2.6	24.4	11	8 - 13
Abaxis Piccolo												
Abaxis Piccolo - waived	14	26.9	1.1	4.0	27	21 - 33	14	11.4	0.7	6.6	11	9 - 14
All Chemistry Instruments	16	27.0	1.0	3.8	27	21 - 33	16	11.4	0.7	6.3	11	9 - 14
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	13	25.8	2.1	8.0	26	20 - 32	13	11.5	2.0	17.3	12	9 - 14
Beckman AU systems	27	26.6	1.8	6.8	27	21 - 32	27	11.6	1.1	9.3	12	9 - 14
Horiba ABX Pentra 400 / C400	14	26.9	2.1	7.6	27	21 - 33	14	12.7	2.1	16.4	12	10 - 16
Roche Integra	12	24.7	1.4	5.6	25	19 - 30	12	10.4	1.1	10.4	11	8 - 13
Siemens Dimension	18	27.1	2.4	9.0	28	21 - 33	18	13.1	2.0	15.2	14	10 - 16
All Chemistry Instruments	101	26.2	2.1	8.0	26	20 - 32	101	11.8	1.8	14.8	12	9 - 15
ISE Diluted												
All Chemistry Instruments	10	24.3	3.7	15.4	24	19 - 30	10	9.4	2.1	22.0	10	7 - 12
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	11	25.1	2.7	10.6	24	20 - 31	11	11.4	2.0	17.7	11	9 - 14
All Chemistry Instruments	17	25.0	3.0	12.0	26	20 - 30	17	11.2	2.1	18.5	11	8 - 14
VITROS												
VITROS 250,350,400 500,700,750,950	18	26.4	1.8	6.8	27	21 - 32	18	6.2	1.1	17.9	6	4 - 8
All Chemistry Instruments	24	26.4	1.6	6.0	27	21 - 32	24	6.0	1.1	18.2	6	4 - 8

Method/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	156	15.4	1.7	11.3	16	12 - 19	156	36.5	3.1	8.4	37	29 - 44
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	16	12 - 20	5	-	-	-	32	25 - 39
All Chemistry Instruments	6	-	-	-	16	12 - 20	6	-	-	-	33	26 - 39
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	13	15.5	2.0	13.1	16	12 - 19	13	36.7	3.0	8.3	37	29 - 45
Beckman AU systems	27	15.9	1.2	7.8	16	12 - 20	25	39.0	1.9	4.9	39	31 - 47
Horiba ABX Pentra 400	14	16.7	1.6	9.8	17	13 - 21	14	35.9	2.6	7.3	37	28 - 44
Roche Integra	12	14.4	1.6	10.9	15	11 - 18	12	33.8	1.7	5.2	34	27 - 41
Siemens Dimension	17	16.8	1.0	5.7	17	13 - 21	17	38.7	1.7	4.5	39	30 - 47
All Chemistry Instruments	99	15.8	1.5	9.3	16	12 - 19	100	37.0	2.9	7.9	38	29 - 45
ISE Diluted												
All Chemistry Instruments	10	13.8	2.1	15.6	14	11 - 17	10	35.1	5.7	16.3	35	28 - 43
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	11	14.7	2.1	13.9	14	11 - 18	11	35.5	3.2	9.0	36	28 - 43
All Chemistry Instruments	17	14.8	2.5	17.1	15	11 - 18	17	35.3	3.3	9.3	36	28 - 43
VITROS												
VITROS 250,350,400 500,700,750,950	17	14.6	1.7	11.6	15	11 - 18	19	34.9	4.3	12.3	35	27 - 42
All Chemistry Instruments	23	14.6	1.5	10.3	15	11 - 18	23	36.8	2.2	5.9	37	29 - 45

CO_2 (mmol/L)

Specimen CH-5

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	156	20.2	2.2	10.8	20	16 - 25
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	21	17 - 26
All Chemistry Instruments	6	-	-	-	22	17 - 26
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	13	21.3	2.3	10.7	21	17 - 26
Beckman AU systems	27	20.6	1.7	8.2	21	16 - 25
Horiba ABX Pentra 400	14	20.7	1.8	8.8	21	16 - 25
Roche Integra	12	18.8	1.3	6.7	19	15 - 23
Siemens Dimension	18	21.6	1.9	8.9	22	17 - 26
All Chemistry Instruments	101	20.6	1.9	9.2	21	16 - 25
ISE Diluted						
All Chemistry Instruments	10	18.3	2.4	12.9	18	14 - 22
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	11	19.6	2.7	13.9	19	15 - 24
All Chemistry Instruments	17	19.7	3.1	15.6	19	15 - 24
VITROS						
VITROS 250,350,400 500,700,750,950	17	18.2	2.5	13.8	19	14 - 22
All Chemistry Instruments	23	18.7	2.4	12.7	19	14 - 23

Potassium (mmol/L)

Method/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	176	4.96	0.10	2.1	5.0	4.4 - 5.5	176	2.60	0.15	5.8	2.6	2.1 - 3.2
Abaxis Piccolo												
Abaxis Piccolo - waived	14	4.96	0.22	4.4	5.0	4.4 - 5.5	14	2.38	0.15	6.2	2.3	1.8 - 2.9
All Chemistry Instruments	17	5.00	0.22	4.4	5.0	4.5 - 5.5	17	2.36	0.15	6.3	2.3	1.8 - 2.9
ISE Diluted												
Beckman AU systems	30	4.88	0.08	1.6	4.9	4.3 - 5.4	30	2.55	0.06	2.2	2.5	2.0 - 3.1
Roche Integra	13	4.97	0.05	1.0	5.0	4.4 - 5.5	13	2.54	0.05	2.0	2.5	2.0 - 3.1
Siemens Dimension QuickLyte - Xpand/EXL	18	4.98	0.05	1.0	5.0	4.4 - 5.5	18	2.48	0.04	1.7	2.5	1.9 - 3.0
All Chemistry Instruments	86	4.94	0.08	1.7	5.0	4.4 - 5.5	85	2.54	0.07	2.6	2.5	2.0 - 3.1
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	5.07	0.07	1.3	5.1	4.5 - 5.6	25	2.74	0.10	3.8	2.7	2.2 - 3.3
Horiba ABX Pentra 400 / C400	17	4.86	0.09	1.8	4.9	4.3 - 5.4	17	2.79	0.11	3.8	2.8	2.2 - 3.3
All Chemistry Instruments	50	4.98	0.13	2.5	5.0	4.4 - 5.5	50	2.72	0.14	5.1	2.7	2.2 - 3.3
VITROS												
VITROS 250,350,400 500,700,750,950	19	4.99	0.08	1.6	5.0	4.4 - 5.5	19	2.76	0.06	2.2	2.8	2.2 - 3.3
All Chemistry Instruments	25	4.98	0.07	1.5	5.0	4.4 - 5.5	25	2.76	0.06	2.1	2.8	2.2 - 3.3

Method/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	165	2.74	0.08	3.1	2.7	2.2 - 3.3	163	7.21	0.19	2.7	7.2	6.7 - 7.8
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	2.6	2.2 - 3.2	4	-	-	-	6.9	6.4 - 7.5
All Chemistry Instruments	6	-	-	-	2.7	2.2 - 3.2	6	-	-	-	6.9	6.4 - 7.5
ISE Diluted												
Beckman AU systems	29	2.78	0.05	1.8	2.8	2.2 - 3.3	27	7.04	0.06	0.9	7.0	6.5 - 7.6
Roche Integra	13	2.75	0.05	1.9	2.8	2.2 - 3.3	13	7.12	0.06	0.8	7.1	6.6 - 7.7
Siemens Dimension QuickLyte - Xpand/EXL	18	2.72	0.04	1.6	2.7	2.2 - 3.3	18	7.23	0.08	1.1	7.2	6.7 - 7.8
All Chemistry Instruments	84	2.76	0.06	2.1	2.8	2.2 - 3.3	84	7.14	0.14	1.9	7.1	6.6 - 7.7
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	24	2.66	0.07	2.7	2.7	2.1 - 3.2	25	7.51	0.23	3.1	7.5	7.0 - 8.1
Horiba ABX Pentra 400 / C400	17	2.77	0.08	3.1	2.8	2.2 - 3.3	17	7.13	0.14	2.0	7.1	6.6 - 7.7
All Chemistry Instruments	48	2.70	0.08	3.1	2.7	2.1 - 3.2	50	7.32	0.27	3.7	7.3	6.8 - 7.9
VITROS												
VITROS 250,350,400 500,700,750,950	19	2.77	0.05	1.7	2.8	2.2 - 3.3	19	7.34	0.10	1.4	7.4	6.8 - 7.9
All Chemistry Instruments	25	2.76	0.05	1.8	2.8	2.2 - 3.3	25	7.32	0.10	1.4	7.3	6.8 - 7.9

Potassium (mmol/L)

Specimen CH-5

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	165	3.86	0.07	1.9	3.9	3.3 - 4.4
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	4.0	3.3 - 4.4
All Chemistry Instruments	6	-	-	-	4.0	3.3 - 4.4
ISE Diluted						
Beckman AU systems	30	3.84	0.06	1.5	3.8	3.3 - 4.4
Roche Integra	13	3.86	0.05	1.3	3.9	3.3 - 4.4
Siemens Dimension QuickLyte - Xpand/EXL	18	3.87	0.06	1.5	3.9	3.3 - 4.4
All Chemistry Instruments	86	3.86	0.06	1.5	3.9	3.3 - 4.4
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	24	3.92	0.08	2.0	3.9	3.4 - 4.5
Horiba ABX Pentra 400	17	3.83	0.08	2.0	3.8	3.3 - 4.4
All Chemistry Instruments	49	3.87	0.09	2.5	3.9	3.3 - 4.4
VITROS						
VITROS 250,350,400 500,700,750,950	19	3.91	0.07	1.8	3.9	3.4 - 4.5
All Chemistry Instruments	25	3.90	0.07	1.9	3.9	3.3 - 4.4

Sodium (mmol/L)

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

	Specimen CH-1						Specimen CH-2					
Method/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	178	144.6	2.5	1.8	144	140 - 149	178	125.4	4.7	3.8	125	121 - 130
Abaxis Piccolo												
Abaxis Piccolo - waived	14	148.8	2.6	1.8	150	144 - 153	14	128.1	1.4	1.1	128	124 - 133
All Chemistry Instruments	17	148.7	2.5	1.7	149	144 - 153	17	128.0	1.5	1.2	128	124 - 132
ISE Diluted												
Beckman AU systems	29	142.9	1.5	1.0	143	138 - 147	29	119.9	1.3	1.0	120	115 - 124
Roche Integra	13	143.3	0.9	0.6	143	139 - 148	13	121.4	0.8	0.6	121	117 - 126
Siemens Dimension QuickLyte - Xpand/EXL	17	146.4	1.2	0.8	146	142 - 151	18	122.7	1.4	1.1	123	118 - 127
All Chemistry Instruments	85	143.9	2.0	1.4	144	139 - 148	85	121.3	1.7	1.4	121	117 - 126
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	144.6	1.8	1.2	144	140 - 149	25	128.1	1.6	1.2	128	124 - 133
Horiba ABX Pentra 400 / C400	16	143.5	1.9	1.3	144	139 - 148	16	131.0	1.8	1.4	131	127 - 135
All Chemistry Instruments	49	144.0	2.0	1.4	144	140 - 148	50	128.1	3.5	2.8	129	124 - 133
VITROS												
VITROS 250,350,400 500,700,750,950	19	145.6	1.5	1.0	145	141 - 150	19	131.9	2.1	1.6	132	127 - 136
All Chemistry Instruments	24	145.3	1.2	0.8	145	141 - 150	25	131.8	2.1	1.6	131	127 - 136

	Specimen CH-3						Specimen CH-4					
All Method	167	122.3	2.7	2.2	122	118 - 127	163	167.1	3.8	2.3	167	163 - 172
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	126	121 - 130	2	-	-	-	170	163 - 172
All Chemistry Instruments	6	-	-	-	126	121 - 130	4	-	-	-	170	166 - 174
ISE Diluted												
Beckman AU systems	29	122.6	1.0	0.8	123	118 - 127	28	163.5	1.5	0.9	164	159 - 168
Roche Integra	13	122.3	0.9	0.7	122	118 - 127	13	163.0	1.1	0.7	163	159 - 167
Siemens Dimension QuickLyte - Xpand/EXL	18	126.1	1.1	0.9	126	122 - 131	17	165.7	1.9	1.1	165	161 - 170
All Chemistry Instruments	86	123.5	2.0	1.6	123	119 - 128	82	164.5	2.1	1.3	164	160 - 169
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	26	118.3	1.7	1.4	118	114 - 123	25	169.9	2.3	1.3	170	165 - 174
Horiba ABX Pentra 400	15	120.8	1.1	0.9	121	116 - 125	16	169.7	2.1	1.2	170	165 - 174
All Chemistry Instruments	50	119.6	2.1	1.8	119	115 - 124	50	168.9	3.2	1.9	170	164 - 173
VITROS												
VITROS 250,350,400 500,700,750,950	19	122.7	1.5	1.2	122	118 - 127	19	171.8	1.7	1.0	171	167 - 176
All Chemistry Instruments	25	122.4	1.5	1.2	122	118 - 127	25	171.6	1.6	1.0	171	167 - 176

Sodium (mmol/L)

Specimen CH-5

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	163	133.4	1.9	1.4	133	129 - 138
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	137	132 - 141
All Chemistry Instruments	6	-	-	-	137	132 - 141
ISE Diluted						
Beckman AU systems	29	133.2	1.1	0.8	133	129 - 138
Roche Integra	13	132.5	0.9	0.7	133	128 - 137
Siemens Dimension QuickLyte - Xpand/EXL	17	135.8	1.3	1.0	136	131 - 140
All Chemistry Instruments	84	133.7	1.6	1.2	133	129 - 138
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	25	131.7	1.6	1.2	132	127 - 136
Horiba ABX Pentra 400	16	132.7	1.7	1.3	133	128 - 137
All Chemistry Instruments	49	132.1	1.7	1.3	132	128 - 137
VITROS						
VITROS 250,350,400 500,700,750,950	19	134.9	1.8	1.3	135	130 - 139
All Chemistry Instruments	24	134.3	1.4	1.1	134	130 - 139

TIBC – Calculated (µg/dL)

Method/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	11	218.7	51.2	23.4	241	116 - 322	11	627.7	40.4	6.4	604	502 - 754
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	5	243.8	12.9	5.3	248	195 - 293	5	621.6	39.6	6.4	600	497 - 746

Method/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	10	89.9	23.0	25.6	101	43 - 136	11	347.2	83.0	23.9	372	181 - 514
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	4	-	-	-	102	79 - 120	5	393.4	22.7	5.8	400	314 - 473

Method/Instrument	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	11	154.5	36.6	23.7	164	81 - 228
Calculated TIBC (TRF x CF 1.40 - 1.49)						
All Chemistry Instruments	5	173.0	10.0	5.8	177	138 - 208

TIBC – Direct (µg/dL)

Method/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	18	208.0	34.1	16.4	208	139 - 277	16	605.6	16.1	2.7	611	484 - 727

Method/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	18	90.4	38.2	42.2	96	14 - 167	17	302.5	20.7	6.8	306	242 - 364

Method/Instrument	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	18	151.2	34.9	23.1	161	81 - 222

UIBC – Direct (µg/dL)

Method/Instrument	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	23	117.6	12.3	10.5	120	92 - 143	23	431.0	24.0	5.6	428	344 - 518
Beckman AU												
Beckman AU systems	14	124.7	5.7	4.6	126	99 - 150	14	445.8	17.4	3.9	449	356 - 535

Method/Instrument	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	22	65.9	8.3	12.6	66	49 - 83	23	167.9	13.6	8.1	173	134 - 202
Beckman AU												
Beckman AU systems	14	69.3	6.1	8.8	70	55 - 84	14	176.2	6.1	3.5	178	140 - 212

Method/Instrument	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	23	92.3	9.4	10.2	92	73 - 112
Beckman AU						
Beckman AU systems	14	98.4	5.4	5.5	99	78 - 119

ALT (SGPT) (IU/L)

	Specimen CH-1						Specimen CH-2					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	170	152.2	11.2	7.3	150	121 - 183	166	21.5	4.1	18.9	21	17 - 26
All Alfa Wassermann Reagents	23	149.0	3.5	2.3	149	119 - 179	20	16.2	3.2	19.8	17	12 - 20
All Horiba Pentra Reagents	18	168.5	7.1	4.2	167	134 - 203	18	23.4	1.6	7.1	24	18 - 29
All Roche Reagents	24	153.1	3.0	2.0	154	122 - 184	24	18.9	1.6	8.4	19	15 - 23
All Siemens Healthcare	5	172.8	7.0	4.0	172	138 - 208	5	28.8	4.0	13.8	28	23 - 35
Abaxis Piccolo												
Abaxis Piccolo - waived	15	141.8	2.5	1.8	142	113 - 171	15	25.5	2.2	8.8	25	20 - 31
All Chemistry Instruments	17	141.8	2.5	1.8	142	113 - 171	17	25.6	2.1	8.4	25	20 - 31
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	149.0	3.5	2.3	149	119 - 179	20	16.2	3.2	19.8	17	12 - 20
Beckman AU												
Beckman AU systems	30	141.9	4.8	3.4	142	113 - 171	30	20.7	1.5	7.4	21	16 - 25
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	168.5	7.1	4.2	167	134 - 203	18	23.4	1.6	7.1	24	18 - 29
Roche cobas c 501												
Roche cobas 6000 / c 501	9	153.9	3.6	2.3	155	123 - 185	9	19.7	1.1	5.7	20	15 - 24
Roche Integra												
Roche Integra	13	152.6	2.8	1.8	153	122 - 184	13	18.1	1.4	8.0	19	14 - 22
Siemens Healthcare ALTi												
Siemens Dimension	20	166.5	4.4	2.6	168	133 - 200	20	27.6	2.2	8.0	28	22 - 34
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	15	144.3	4.9	3.4	145	115 - 174	15	19.7	2.3	11.5	20	15 - 24
All Chemistry Instruments	17	145.3	2.8	1.9	145	116 - 175	18	19.5	2.5	13.0	20	15 - 24

ALT (SGPT) (IU/L)

	Specimen CH-3						Specimen CH-4					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	157	20.8	2.6	12.4	21	16 - 25	160	282.3	20.0	7.1	280	225 - 339
All Alfa Wassermann Reagents	25	21.7	3.2	14.7	22	17 - 27	24	271.6	4.9	1.8	271	217 - 326
All Horiba Pentra Reagents	18	21.6	0.9	4.2	22	17 - 26	18	311.2	12.4	4.0	312	248 - 374
All Roche Reagents	24	20.3	0.7	3.3	20	16 - 25	24	283.8	6.8	2.4	283	227 - 341
All Siemens Healthcare	5	25.6	2.2	8.6	25	20 - 31	5	314.6	14.8	4.7	312	251 - 378
Abaxis Piccolo												
Abaxis Piccolo - waived	5	22.8	2.6	11.4	22	18 - 28	5	259.6	4.4	1.7	260	207 - 312
All Chemistry Instruments	6	22.7	2.3	10.3	22	18 - 28	6	259.2	4.1	1.6	259	207 - 312
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	21.7	3.2	14.7	22	17 - 27	24	271.6	4.9	1.8	271	217 - 326
Beckman AU												
Beckman AU systems	30	19.1	0.7	3.6	19	15 - 23	30	262.7	8.3	3.2	262	210 - 316
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	21.6	0.9	4.2	22	17 - 26	18	311.2	12.4	4.0	312	248 - 374
Roche cobas c 501												
Roche cobas 6000 / c 501	9	20.4	0.7	3.6	21	16 - 25	9	288.3	7.2	2.5	289	230 - 346
Roche Integra												
Roche Integra	13	20.0	0.6	2.9	20	16 - 24	13	280.7	5.3	1.9	281	224 - 337
Siemens Healthcare ALTi												
Siemens Dimension	20	24.7	2.4	9.7	25	19 - 30	20	304.1	6.2	2.0	305	243 - 365
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	15	17.7	1.0	5.8	18	14 - 22	15	272.9	13.3	4.9	274	218 - 328
All Chemistry Instruments	18	17.7	1.0	5.8	18	14 - 22	18	273.1	13.2	4.8	273	218 - 328

ALT (SGPT) (IU/L)

Specimen CH-5

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	159	88.2	7.0	7.9	87	70 - 106
All Alfa Wassermann Reagents	24	86.4	3.4	3.9	87	69 - 104
All Horiba Pentra Reagents	18	97.8	4.2	4.3	98	78 - 118
All Roche Reagents	24	87.9	1.7	1.9	88	70 - 106
All Siemens Healthcare	5	101.6	3.0	2.9	103	81 - 122
Abaxis Piccolo						
Abaxis Piccolo - waived	5	81.6	0.9	1.1	81	65 - 98
All Chemistry Instruments	6	81.3	1.0	1.3	81	65 - 98
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	86.4	3.4	3.9	87	69 - 104
Beckman AU						
Beckman AU systems	30	81.1	2.4	3.0	81	64 - 98
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	97.8	4.2	4.3	98	78 - 118
Roche cobas c 501						
Roche cobas 6000 / c 501	9	88.8	2.0	2.2	90	71 - 107
Roche Integra						
Roche Integra	13	87.5	1.3	1.5	88	69 - 105
Siemens Healthcare ALTi						
Siemens Dimension	20	97.1	2.7	2.8	97	77 - 117
VITROS ALTV						
VITROS 250,350,400 500,700,750,950	15	82.7	3.0	3.6	82	66 - 100
All Chemistry Instruments	18	82.6	2.8	3.4	82	66 - 100

Alkaline Phosphatase (IU/L)

	Specimen CH-1						Specimen CH-2					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	177	213.0	32.7	15.4	220	149 - 277	175	109.9	11.9	10.8	112	76 - 143
All Alfa Wassermann Reagents	24	222.1	11.6	5.2	221	155 - 289	25	103.0	6.7	6.5	103	72 - 134
All Horiba Pentra Reagents	18	245.9	17.2	7.0	245	172 - 320	17	120.8	6.0	4.9	121	84 - 158
All Roche Reagents	24	233.0	11.7	5.0	234	163 - 303	24	115.9	4.6	3.9	117	81 - 151
Abaxis Piccolo												
Abaxis Piccolo - waived	15	173.9	7.5	4.3	176	121 - 227	14	96.1	6.0	6.2	97	67 - 125
All Chemistry Instruments	17	173.9	7.0	4.0	174	121 - 227	16	95.8	5.6	5.9	96	67 - 125
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	222.1	11.6	5.2	221	155 - 289	25	103.0	6.7	6.5	103	72 - 134
Beckman AU												
Beckman AU systems	29	208.6	13.8	6.6	206	146 - 272	29	99.6	5.9	5.9	99	69 - 130
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	245.9	17.2	7.0	245	172 - 320	17	120.8	6.0	4.9	121	84 - 158
Roche Integra												
Roche Integra	13	234.2	14.3	6.1	236	163 - 305	13	115.8	5.2	4.5	117	81 - 151
Siemens Healthcare ALPi												
Siemens Dimension	18	243.8	9.2	3.8	243	170 - 317	18	117.9	4.3	3.6	117	82 - 154
VITROS												
VITROS 250,350,400 500,700,750,950	18	164.1	9.2	5.6	164	114 - 214	18	121.8	6.8	5.6	122	85 - 159
All Chemistry Instruments	23	162.8	9.2	5.7	163	113 - 212	23	122.2	6.7	5.5	123	85 - 159

Alkaline Phosphatase (IU/L)

	Specimen CH-3						Specimen CH-4					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	164	43.8	4.2	9.6	43	30 - 57	166	361.6	82.0	22.7	386	253 - 471
All Alfa Wassermann Reagents	24	43.0	2.5	5.9	43	30 - 56	23	381.6	14.2	3.7	381	267 - 497
All Horiba Pentra Reagents	18	49.2	4.1	8.3	49	34 - 64	18	427.2	27.3	6.4	426	299 - 556
All Roche Reagents	24	44.4	2.1	4.7	44	31 - 58	23	406.4	17.4	4.3	402	284 - 529
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	40	30 - 57	5	-	-	-	272	253 - 471
All Chemistry Instruments	6	-	-	-	41	30 - 57	6	-	-	-	272	186 - 347
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	43.0	2.5	5.9	43	30 - 56	23	381.6	14.2	3.7	381	267 - 497
Beckman AU												
Beckman AU systems	29	39.4	2.5	6.3	39	27 - 52	29	367.4	23.9	6.5	364	257 - 478
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	49.2	4.1	8.3	49	34 - 64	18	427.2	27.3	6.4	426	299 - 556
Roche Integra												
Roche Integra	13	44.8	2.3	5.1	45	31 - 59	12	407.8	19.2	4.7	408	285 - 531
Siemens Healthcare ALPi												
Siemens Dimension	18	46.3	3.2	6.8	47	32 - 61	18	433.6	13.5	3.1	431	303 - 564
VITROS												
VITROS 250,350,400 500,700,750,950	19	43.8	3.6	8.1	44	30 - 57	19	192.9	18.3	9.5	195	135 - 251
All Chemistry Instruments	24	43.7	3.2	7.3	44	30 - 57	22	193.9	9.6	4.9	195	135 - 253

Alkaline Phosphatase (IU/L)

Specimen CH-5

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	165	136.5	14.5	10.6	137	95 - 178
All Alfa Wassermann Reagents	24	138.5	7.5	5.4	139	96 - 181
All Horiba Pentra Reagents	18	153.0	10.0	6.6	153	107 - 199
All Roche Reagents	24	142.2	7.5	5.3	140	99 - 185
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	121	95 - 178
All Chemistry Instruments	6	-	-	-	119	82 - 154
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	138.5	7.5	5.4	139	96 - 181
Beckman AU						
Beckman AU systems	29	128.2	8.4	6.5	129	89 - 167
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	153.0	10.0	6.6	153	107 - 199
Roche Integra						
Roche Integra	13	143.2	8.2	5.8	144	100 - 187
Siemens Healthcare ALPi						
Siemens Dimension	18	149.9	5.7	3.8	149	104 - 195
VITROS						
VITROS 250,350,400 500,700,750,950	18	121.9	5.5	4.5	122	85 - 159
All Chemistry Instruments	23	121.1	5.5	4.5	121	84 - 158

AST (SGOT) (IU/L)

	Specimen CH-1						Specimen CH-2					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	153	212.0	22.2	10.5	213	169 - 255	153	39.4	4.6	11.8	38	31 - 48
All Alfa Wassermann Reagents	25	196.8	9.0	4.6	197	157 - 237	25	33.5	3.0	9.0	33	26 - 41
All Horiba Pentra Reagents	18	227.6	10.4	4.6	228	182 - 274	18	43.7	2.0	4.6	44	34 - 53
All Roche Reagents	24	219.1	7.0	3.2	221	175 - 263	24	37.8	1.8	4.8	38	30 - 46
Abaxis Piccolo												
Abaxis Piccolo - waived	15	206.4	3.7	1.8	206	165 - 248	15	43.7	1.8	4.2	44	34 - 53
All Chemistry Instruments	17	206.6	3.7	1.8	206	165 - 248	17	43.8	1.9	4.2	44	35 - 53
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	196.8	9.0	4.6	197	157 - 237	25	33.5	3.0	9.0	33	26 - 41
Beckman AU												
Beckman AU systems	29	183.2	5.4	2.9	183	146 - 220	30	35.8	1.2	3.4	36	28 - 43
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	227.6	10.4	4.6	228	182 - 274	18	43.7	2.0	4.6	44	34 - 53
Roche Integra												
Roche Integra	13	219.1	7.5	3.4	221	175 - 263	13	36.9	1.5	4.1	37	29 - 45
Siemens Healthcare												
Siemens Dimension	24	219.5	6.6	3.0	219	175 - 264	24	34.8	2.6	7.5	35	27 - 42
VITROS												
VITROS 250,350,400 500,700,750,950	19	247.8	7.9	3.2	246	198 - 298	19	44.5	1.2	2.7	44	35 - 54
All Chemistry Instruments	24	246.9	8.3	3.4	246	197 - 297	24	44.6	1.1	2.6	44	35 - 54

AST (SGOT) (IU/L)

	Specimen CH-3						Specimen CH-4					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	142	108.9	9.3	8.6	111	87 - 131	142	319.3	49.9	15.6	313	255 - 384
All Alfa Wassermann Reagents	25	104.0	5.7	5.4	104	83 - 125	25	286.8	12.0	4.2	285	229 - 345
All Horiba Pentra Reagents	18	120.2	5.6	4.7	122	96 - 145	18	333.1	13.9	4.2	336	266 - 400
All Roche Reagents	24	115.0	4.1	3.5	116	92 - 139	24	318.4	10.0	3.1	322	254 - 383
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	110	87 - 131	5	-	-	-	302	255 - 384
All Chemistry Instruments	6	-	-	-	111	87 - 131	6	-	-	-	300	241 - 363
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	104.0	5.7	5.4	104	83 - 125	25	286.8	12.0	4.2	285	229 - 345
Beckman AU												
Beckman AU systems	30	96.5	4.0	4.1	96	77 - 116	29	267.7	8.0	3.0	267	214 - 322
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	120.2	5.6	4.7	122	96 - 145	18	333.1	13.9	4.2	336	266 - 400
Roche Integra												
Roche Integra	13	115.5	4.4	3.8	116	92 - 139	13	317.1	10.0	3.2	318	253 - 381
Siemens Healthcare												
Siemens Dimension	24	111.4	3.2	2.9	111	89 - 134	24	326.3	9.3	2.9	325	261 - 392
VITROS												
VITROS 250,350,400 500,700,750,950	19	112.5	3.2	2.8	113	89 - 135	19	418.4	13.0	3.1	416	334 - 503
All Chemistry Instruments	24	112.6	3.0	2.7	113	90 - 136	24	415.3	15.3	3.7	414	332 - 499

AST (SGOT) (IU/L)

Specimen CH-5

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	142	160.4	14.9	9.3	164	128 - 193
All Alfa Wassermann Reagents	25	152.7	7.1	4.6	152	122 - 184
All Horiba Pentra Reagents	18	176.2	8.5	4.8	177	140 - 212
All Roche Reagents	24	165.3	5.4	3.2	166	132 - 199
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	154	128 - 193
All Chemistry Instruments	6	-	-	-	154	124 - 187
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	25	152.7	7.1	4.6	152	122 - 184
Beckman AU						
Beckman AU systems	30	139.6	4.5	3.2	139	111 - 168
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	176.2	8.5	4.8	177	140 - 212
Roche Integra						
Roche Integra	13	165.6	5.8	3.5	166	132 - 199
Siemens Healthcare						
Siemens Dimension	24	167.1	4.8	2.9	167	133 - 201
VITROS						
VITROS 250,350,400 500,700,750,950	19	176.5	4.4	2.5	176	141 - 212
All Chemistry Instruments	24	176.2	4.3	2.5	176	140 - 212

Creatine Kinase (IU/L)

Instrument/Reagent	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	64	197.0	13.0	6.6	199	137 - 257	64	144.8	13.1	9.0	146	101 - 189
All Alfa Wassermann Reagents	9	195.0	4.9	2.5	194	136 - 254	9	139.9	5.0	3.6	142	97 - 182
All Roche Reagents	10	205.6	6.2	3.0	206	143 - 268	10	148.0	3.8	2.5	147	103 - 193
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	9	195.0	4.9	2.5	194	136 - 254	9	139.9	5.0	3.6	142	97 - 182
Beckman AU												
Beckman AU systems	16	183.8	14.3	7.8	185	128 - 239	16	129.4	9.0	7.0	130	90 - 169
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	5	198.2	10.9	5.5	200	138 - 258	5	152.4	4.7	3.1	154	106 - 199
Roche Integra												
Roche Integra	5	205.0	8.0	3.9	210	143 - 267	5	146.0	1.9	1.3	146	102 - 190
Siemens Healthcare CKI												
Siemens Dimension	13	207.3	3.5	1.7	207	145 - 270	14	149.4	2.8	1.9	149	104 - 195
VITROS												
VITROS 250,350,400 500,700,750,950	5	189.8	17.1	9.0	191	132 - 247	5	176.6	11.3	6.4	175	123 - 230
All Chemistry Instruments	6	184.8	19.5	10.6	186	129 - 241	6	173.0	13.4	7.7	173	121 - 225

Instrument/Reagent	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	65	20.3	3.8	18.5	20	14 - 27	65	356.5	33.5	9.4	361	249 - 464
All Alfa Wassermann Reagents	9	27.1	1.7	6.2	27	18 - 36	9	345.8	13.2	3.8	343	242 - 450
All Roche Reagents	10	21.4	1.3	6.3	21	14 - 28	10	376.3	13.5	3.6	375	263 - 490
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	9	27.1	1.7	6.2	27	18 - 36	9	345.8	13.2	3.8	343	242 - 450
Beckman AU												
Beckman AU systems	16	17.8	2.1	11.7	18	12 - 24	16	344.6	26.9	7.8	347	241 - 449
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	5	21.2	2.7	12.7	20	14 - 28	5	363.6	23.6	6.5	368	254 - 473
Roche Integra												
Roche Integra	5	21.4	1.1	5.3	21	14 - 28	5	370.4	12.1	3.3	371	259 - 482
Siemens Healthcare CKI												
Siemens Dimension	14	17.8	1.9	10.6	18	12 - 24	14	382.5	12.8	3.4	386	267 - 498
VITROS												
VITROS 250,350,400 500,700,750,950	5	21.6	1.5	7.0	22	15 - 29	5	292.6	27.6	9.4	300	204 - 381
All Chemistry Instruments	6	21.5	1.4	6.4	22	15 - 28	6	287.7	27.5	9.6	288	201 - 374

Creatine Kinase (IU/L) cont'd

	Specimen CH-5					
All Method	64	109.8	7.4	6.8	112	76 - 143
All Alfa Wassermann Reagents	9	112.2	5.6	5.0	114	78 - 146
All Roche Reagents	10	114.1	4.3	3.8	116	79 - 149
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	9	112.2	5.6	5.0	114	78 - 146
Beckman AU						
Beckman AU systems	16	100.4	8.5	8.4	101	70 - 131
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	5	110.6	5.5	5.0	113	77 - 144
Roche Integra						
Roche Integra	5	113.6	4.9	4.3	115	79 - 148
Siemens Healthcare CKI						
Siemens Dimension	14	112.4	5.2	4.7	114	78 - 147
VITROS						
VITROS 250,350,400 500,700,750,950	5	111.4	11.9	10.7	112	77 - 145
All Chemistry Instruments	6	110.0	11.2	10.2	108	77 - 143

GGT (IU/L)

	Specimen CH-1						Specimen CH-2					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	39	121.2	26.8	22.1	115	67 - 175	39	37.1	6.8	18.3	35	23 - 51
All Roche Reagents	11	114.5	5.0	4.3	115	97 - 132	11	34.7	1.7	5.0	35	29 - 40
Beckman AU												
Beckman AU systems	9	100.2	2.8	2.8	100	85 - 116	9	31.7	1.1	3.5	32	26 - 37
Roche Integra												
Roche Integra	7	115.1	1.1	0.9	115	97 - 133	7	34.3	1.0	2.8	35	29 - 40
Siemens Healthcare												
Siemens Dimension	5	152.6	3.8	2.5	151	129 - 176	5	52.4	1.1	2.2	52	44 - 61

	Specimen CH-3						Specimen CH-4					
All Method	38	18.6	5.5	29.8	16	7 - 30	38	218.0	39.9	18.3	211	138 - 298
All Roche Reagents	11	15.8	1.2	7.4	16	13 - 19	11	209.5	9.6	4.6	211	178 - 241
Beckman AU												
Beckman AU systems	9	14.2	0.4	3.1	14	12 - 17	9	184.8	6.6	3.6	184	157 - 213
Roche Integra												
Roche Integra	7	15.6	0.5	3.4	16	13 - 18	7	211.9	2.3	1.1	212	180 - 244
Siemens Healthcare												
Siemens Dimension	5	28.0	1.2	4.4	28	23 - 33	5	274.8	5.0	1.8	273	233 - 317

	Specimen CH-5					
All Method	38	71.4	16.1	22.6	67	39 - 104
All Roche Reagents	11	68.2	8.8	13.0	66	50 - 86
Beckman AU						
Beckman AU systems	9	57.8	2.1	3.6	58	49 - 67
Roche Integra						
Roche Integra	7	66.3	0.8	1.1	66	56 - 77
Siemens Healthcare						
Siemens Dimension	5	90.6	1.7	1.8	91	77 - 105

Amylase (IU/L)

Instrument/Reagent	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	47	95.9	17.0	17.7	99	67 - 125	47	95.5	13.4	14.0	97	66 - 125
All Roche Reagents	9	99.1	2.1	2.1	99	69 - 129	9	106.3	2.1	1.9	106	74 - 139
Beckman AU												
Beckman AU systems	10	82.7	3.9	4.8	83	57 - 108	10	74.1	4.0	5.4	75	51 - 97
Roche Integra												
Roche Integra	5	100.0	2.2	2.2	100	70 - 130	5	106.2	1.8	1.7	106	74 - 139
Siemens Healthcare												
Siemens Dimension	8	114.8	1.8	1.5	114	80 - 150	8	95.0	1.7	1.8	95	66 - 124
VITROS												
VITROS 250,350,400 500,700,750,950	6	69.2	4.3	6.2	69	48 - 90	6	106.7	2.0	1.8	107	74 - 139
All Chemistry Instruments	7	69.4	4.0	5.8	69	48 - 91	7	108.9	6.1	5.6	107	76 - 142

Instrument/Reagent	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	45	16.3	6.1	37.5	15	11 - 22	46	178.2	31.7	17.8	185	124 - 232
All Roche Reagents	9	16.0	0.5	3.1	16	11 - 21	9	184.3	3.8	2.1	186	129 - 240
Beckman AU												
Beckman AU systems	10	10.4	1.0	9.3	11	7 - 14	10	153.8	6.7	4.3	154	107 - 200
Roche Integra												
Roche Integra	5	16.2	0.4	2.8	16	11 - 22	5	185.4	3.0	1.6	186	129 - 242
Siemens Healthcare												
Siemens Dimension	8	14.8	0.7	4.8	15	10 - 20	8	211.8	2.7	1.3	213	148 - 276
VITROS												
VITROS 250,350,400 500,700,750,950	5	30.0	0.1	0.0	30	21 - 39	6	128.0	2.5	2.0	128	89 - 167
All Chemistry Instruments	6	30.0	0.1	0.0	30	21 - 39	7	129.4	4.4	3.4	129	90 - 169

Amylase (IU/L)

	Specimen CH-5					
All Method	45	55.2	8.8	15.9	59	38 - 72
All Roche Reagents	9	57.9	1.5	2.5	58	40 - 76
Beckman AU						
Beckman AU systems	10	47.3	2.2	4.7	48	33 - 62
Roche Integra						
Roche Integra	5	58.8	1.1	1.9	59	41 - 77
Siemens Healthcare						
Siemens Dimension	8	65.4	0.5	0.8	65	45 - 85
VITROS						
VITROS 250,350,400 500,700,750,950	6	41.7	3.5	8.4	41	29 - 55
All Chemistry Instruments	7	41.7	3.2	7.7	42	29 - 55

Lactate Dehydrogenase (IU/L)

	Specimen CH-1						Specimen CH-2					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	48	449.3	55.4	12.3	474	359 - 540	48	177.1	23.7	13.4	186	141 - 213
All Alfa Wassermann Reagents	5	323.3	11.8	3.6	322	258 - 388	5	126.8	3.3	2.6	127	101 - 153
All Horiba Pentra Reagents	7	485.6	21.3	4.4	482	388 - 583	7	201.4	9.9	4.9	201	161 - 242
All Roche Reagents	18	487.2	9.1	1.9	487	389 - 585	18	188.3	7.6	4.0	189	150 - 226
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	5	323.3	11.8	3.6	322	258 - 388	5	126.8	3.3	2.6	127	101 - 153
Beckman AU												
Beckman AU systems	10	393.8	21.8	5.5	399	315 - 473	10	152.8	7.6	4.9	155	122 - 184
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	485.6	21.3	4.4	482	388 - 583	7	201.4	9.9	4.9	201	161 - 242
Roche cobas c 501												
Roche cobas 6000 / c 501	7	490.6	8.3	1.7	490	392 - 589	7	191.0	5.8	3.1	194	152 - 230
Roche Integra												
Roche Integra	11	485.0	9.2	1.9	484	388 - 582	11	186.6	8.3	4.5	186	149 - 224
Siemens Healthcare LDI												
Siemens Dimension	5	457.3	8.3	1.8	459	365 - 549	5	186.5	8.6	4.6	189	149 - 224

Lactate Dehydrogenase (IU/L)

	Specimen CH-3						Specimen CH-4					
All Method	47	115.4	14.8	12.9	123	92 - 139	48	770.1	99.6	12.9	804	616 - 925
All Alfa Wassermann Reagents	5	89.8	2.2	2.5	90	71 - 108	5	546.3	13.8	2.5	544	437 - 656
All Horiba Pentra Reagents	7	129.4	8.5	6.6	125	103 - 156	7	852.0	61.7	7.2	859	681 - 1023
All Roche Reagents	18	124.6	2.4	2.0	125	99 - 150	18	823.3	18.6	2.3	825	658 - 988
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	5	89.8	2.2	2.5	90	71 - 108	5	546.3	13.8	2.5	544	437 - 656
Beckman AU												
Beckman AU systems	10	98.0	5.8	5.9	100	78 - 118	10	674.2	30.7	4.6	681	539 - 810
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	129.4	8.5	6.6	125	103 - 156	7	852.0	61.7	7.2	859	681 - 1023
Roche cobas c 501												
Roche cobas 6000 / c 501	7	123.7	2.8	2.2	122	98 - 149	7	838.4	11.9	1.4	833	670 - 1007
Roche Integra												
Roche Integra	11	125.1	2.2	1.7	125	100 - 151	11	813.7	15.6	1.9	812	650 - 977
Siemens Healthcare LDI												
Siemens Dimension	5	119.8	9.4	7.8	121	95 - 144	5	809.3	24.2	3.0	803	647 - 972

Lactate Dehydrogenase (IU/L)

	Specimen CH-5					
All Method	48	286.8	36.7	12.8	304	229 - 345
All Alfa Wassermann Reagents	5	208.8	6.4	3.1	210	167 - 251
All Horiba Pentra Reagents	7	310.3	12.2	3.9	307	248 - 373
All Roche Reagents	18	310.9	6.6	2.1	312	248 - 374
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	5	208.8	6.4	3.1	210	167 - 251
Beckman AU						
Beckman AU systems	10	248.3	13.5	5.5	252	198 - 298
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	7	310.3	12.2	3.9	307	248 - 373
Roche cobas c 501						
Roche cobas 6000 / c 501	7	309.7	8.0	2.6	307	247 - 372
Roche Integra						
Roche Integra	11	311.7	5.9	1.9	312	249 - 375
Siemens Healthcare LDI						
Siemens Dimension	5	291.5	5.4	1.9	293	233 - 350

Lipase (IU/L)

Instrument/Reagent	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	22	35.1	4.5	12.9	37	24 - 46	21	59.6	2.8	4.7	61	41 - 78
All Roche Reagents	9	32.8	1.8	5.5	32	22 - 43	9	59.3	3.1	5.3	60	41 - 78
Beckman AU												
Beckman AU systems	7	38.4	1.8	4.7	38	26 - 50	7	60.9	1.3	2.2	61	42 - 80
Siemens Healthcare												
Siemens Dimension	6	124.3	15.6	12.5	127	87 - 162	6	251.3	26.3	10.4	247	175 - 327

Instrument/Reagent	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	20	6.7	0.7	10.1	7	4 - 9	22	60.5	6.8	11.3	64	42 - 79
All Roche Reagents	9	6.8	0.7	9.8	7	4 - 9	9	56.9	3.6	6.3	56	39 - 74
Beckman AU												
Beckman AU systems	7	6.7	0.8	11.3	7	4 - 9	7	67.3	2.9	4.4	67	47 - 88
Siemens Healthcare												
Siemens Dimension	6	29.2	8.5	29.3	31	20 - 38	6	215.2	23.8	11.0	226	150 - 280

Instrument/Reagent	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	21	21.0	2.1	9.9	22	14 - 28
All Roche Reagents	9	20.2	1.4	6.9	20	14 - 27
Beckman AU						
Beckman AU systems	7	22.7	1.1	4.9	23	15 - 30
Siemens Healthcare						
Siemens Dimension	6	79.3	11.6	14.6	82	55 - 104

Alpha-fetoprotein (AFP) (ng/mL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	172.97	5.49	3.2	174.1	156.5 - 189.5	7	5.27	0.35	6.7	5.3	4.2 - 6.4
	Specimen CH-3						**Specimen CH-4**					
All Method	7	1.20	0.72	60.1	1.0	0.0 - 3.4	7	335.23	14.26	4.3	329.3	292.4 - 378.1
	Specimen CH-5											
All Method	7	88.47	6.25	7.1	87.6	69.7 - 107.3						

Cortisol (µg/dL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	15	17.33	1.95	11.3	17.8	12.9 - 21.7	15	11.67	2.11	18.0	11.6	8.7 - 14.6
Beckman ACCESS / 2 / DxI	7	18.23	1.48	8.1	17.9	13.6 - 22.8	7	10.59	0.97	9.2	10.7	7.9 - 13.3
	Specimen CH-3						**Specimen CH-4**					
All Method	15	4.67	0.58	12.5	4.6	3.5 - 5.9	15	28.83	1.98	6.9	28.6	21.6 - 36.1
Beckman ACCESS / 2 / DxI	7	5.00	0.61	12.1	4.9	3.7 - 6.3	7	29.47	1.57	5.3	29.0	22.1 - 36.9
	Specimen CH-5											
All Method	15	11.38	0.91	8.0	11.2	8.5 - 14.3						
Beckman ACCESS / 2 / DxI	7	11.96	0.84	7.0	11.7	8.9 - 15.0						

T_3 Uptake (percent)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	10	45.78	2.75	6.0	45.4	37.5 - 54.1	10	26.19	4.31	16.5	27.5	13.2 - 39.2

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	10	48.77	4.61	9.5	50.2	34.9 - 62.7	10	43.06	2.98	6.9	42.0	34.1 - 52.0

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	10	46.70	4.04	8.7	46.7	34.5 - 58.9

Triiodothyronine (ng/mL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	20	1.34	0.21	15.8	1.4	0.7 - 2.0	21	1.26	0.41	32.6	1.2	0.0 - 2.5
All TOSOH Instruments	7	4.46	1.54	34.6	4.9	0.0 - 9.1	7	1.54	1.31	84.7	1.1	0.0 - 5.5
Beckman ACCESS / 2 / DxI	11	1.40	0.16	11.5	1.4	0.9 - 1.9	11	1.58	0.13	8.4	1.5	1.1 - 2.0
TOSOH ST AIA PACK	6	4.40	1.68	38.2	5.0	0.0 - 9.5	6	1.62	1.42	87.6	1.1	0.0 - 5.9

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	20	0.74	0.22	29.7	0.8	0.0 - 1.4	20	1.88	0.41	21.7	2.1	0.6 - 3.2
All TOSOH Instruments	7	3.01	0.20	6.5	3.1	2.4 - 3.6	7	6.27	0.78	12.5	6.1	3.9 - 8.7
Beckman ACCESS / 2 / DxI	11	0.75	0.13	17.1	0.7	0.3 - 1.2	11	2.14	0.24	11.1	2.1	1.4 - 2.9
TOSOH ST AIA PACK	6	2.97	0.16	5.5	3.0	2.4 - 3.5	6	6.25	0.85	13.7	6.1	3.6 - 8.9

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	20	1.02	0.23	22.8	1.1	0.3 - 1.8
All TOSOH Instruments	7	4.01	0.34	8.4	3.9	2.9 - 5.1
Beckman ACCESS / 2 / DxI	11	1.07	0.14	13.2	1.1	0.6 - 1.5
TOSOH ST AIA PACK	6	4.00	0.37	9.2	3.9	2.8 - 5.2

Free T_3 (pg/mL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	32	4.06	0.63	15.5	3.9	2.1 - 6.0	32	2.53	0.27	10.5	2.5	1.7 - 3.4
All TOSOH Instruments	5	7.74	0.42	5.4	7.7	6.4 - 9.0	5	2.86	0.39	13.7	2.8	1.6 - 4.1
Beckman ACCESS / 2 / DxI	20	3.73	0.22	5.8	3.7	3.0 - 4.4	20	2.54	0.21	8.2	2.5	1.9 - 3.2

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	32	2.48	0.39	15.6	2.5	1.3 - 3.7	32	4.94	0.79	15.9	4.6	2.5 - 7.3
All TOSOH Instruments	5	3.48	0.37	10.6	3.4	2.3 - 4.6	5	11.06	0.59	5.3	11.0	9.3 - 12.9
Beckman ACCESS / 2 / DxI	20	2.37	0.27	11.6	2.4	1.5 - 3.2	20	4.51	0.23	5.1	4.5	3.8 - 5.2

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	31	3.54	0.47	13.3	3.5	2.1 - 5.0
All TOSOH Instruments	5	6.10	0.30	4.9	6.2	5.2 - 7.0
Beckman ACCESS / 2 / DxI	19	3.34	0.19	5.8	3.3	2.7 - 4.0

Thyroxine (µg/dL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	14	8.25	0.87	10.5	8.5	6.6 - 9.9	14	10.65	1.42	13.3	9.6	8.5 - 12.8
All TOSOH Instruments	6	8.47	0.80	9.4	8.2	6.7 - 10.2	6	9.73	0.54	5.5	9.7	7.7 - 11.7
Beckman ACCESS / 2 / DxI	8	9.16	0.87	9.5	9.4	7.3 - 11.0	8	8.89	0.70	7.8	9.1	7.1 - 10.7
TOSOH ST AIA PACK	5	8.16	0.30	3.7	8.1	6.5 - 9.8	5	9.56	0.36	3.8	9.4	7.6 - 11.5

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	14	1.92	0.25	12.9	1.8	0.9 - 3.0	14	13.46	1.16	8.6	13.1	10.7 - 16.2
All TOSOH Instruments	6	1.83	0.08	4.5	1.9	0.8 - 2.9	6	13.07	0.45	3.4	12.9	10.4 - 15.7
Beckman ACCESS / 2 / DxI	8	1.85	0.23	12.6	1.8	0.8 - 2.9	8	13.14	1.00	7.6	13.1	10.5 - 15.8
TOSOH ST AIA PACK	5	1.82	0.08	4.6	1.8	0.8 - 2.9	5	13.12	0.48	3.7	13.0	10.4 - 15.8

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	14	5.14	0.38	7.4	5.3	4.1 - 6.2
All TOSOH Instruments	6	5.18	0.29	5.6	5.1	4.1 - 6.3
Beckman ACCESS / 2 / DxI	8	5.81	0.46	7.9	5.8	4.6 - 7.0
TOSOH ST AIA PACK	5	5.24	0.29	5.5	5.2	4.1 - 6.3

Free Thyroxine (ng/dL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	110	2.54	0.49	19.1	2.4	1.0 - 4.0	114	1.19	0.24	20.5	1.2	0.4 - 2.0
All TOSOH Instruments	18	3.12	0.20	6.4	3.2	2.5 - 3.8	18	1.37	0.08	6.1	1.4	1.1 - 1.7
Abbott Architect	10	2.43	0.13	5.5	2.5	2.0 - 2.9	10	1.40	0.07	4.8	1.4	1.2 - 1.6
Beckman ACCESS / 2 / DxI	45	2.11	0.11	5.3	2.1	1.7 - 2.5	44	0.95	0.09	9.2	1.0	0.6 - 1.3
Siemens Dimension	16	3.01	0.12	3.9	3.0	2.6 - 3.4	17	1.19	0.11	9.6	1.2	0.8 - 1.6
TOSOH ST AIA PACK	14	3.10	0.22	7.2	3.2	2.4 - 3.8	14	1.35	0.09	6.3	1.4	1.0 - 1.7

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	110	0.85	0.12	14.3	0.8	0.4 - 1.3	112	3.60	0.77	21.4	3.6	1.2 - 6.0
All TOSOH Instruments	18	0.95	0.08	8.3	1.0	0.7 - 1.2	18	4.42	0.24	5.5	4.5	3.6 - 5.2
Beckman ACCESS / 2 / DxI	10	0.76	0.05	6.8	0.8	0.6 - 1.0	10	3.65	0.30	8.1	3.6	2.7 - 4.6
Siemens Dimension	46	0.78	0.07	8.5	0.8	0.5 - 1.0	46	2.85	0.17	5.9	2.8	2.3 - 3.4
TOSOH AIA PACK	17	0.86	0.08	9.1	0.9	0.6 - 1.2	16	4.35	0.23	5.2	4.4	3.6 - 5.1
TOSOH ST AIA PACK	14	0.94	0.08	9.0	1.0	0.6 - 1.2	14	4.39	0.26	5.9	4.4	3.6 - 5.2

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	110	1.84	0.33	18.1	1.7	0.8 - 2.9
All TOSOH Instruments	18	2.26	0.13	5.9	2.3	1.8 - 2.7
Beckman ACCESS / 2 / DxI	10	1.56	0.07	4.5	1.6	1.3 - 1.8
Siemens Dimension	46	1.58	0.08	5.4	1.6	1.3 - 1.9
TOSOH AIA PACK	17	2.02	0.15	7.3	2.0	1.5 - 2.5
TOSOH ST AIA PACK	14	2.24	0.13	6.0	2.3	1.8 - 2.7

TSH (μU/mL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	137	4.98	0.67	13.4	4.9	2.9 - 7.0	138	3.28	0.31	9.5	3.3	2.3 - 4.3
All Abbott Instruments	11	4.79	0.18	3.8	4.8	4.2 - 5.4	11	3.07	0.11	3.6	3.1	2.7 - 3.5
All Roche Instruments	10	5.04	0.20	3.9	5.0	4.4 - 5.7	10	3.26	0.16	4.8	3.2	2.7 - 3.8
All TOSOH Instruments	26	5.85	0.56	9.5	5.9	4.1 - 7.6	26	3.69	0.31	8.3	3.7	2.7 - 4.7
Abbott Architect	11	4.79	0.18	3.8	4.8	4.2 - 5.4	11	3.07	0.11	3.6	3.1	2.7 - 3.5
Beckman ACCESS / 2 / DxI	51	4.75	0.25	5.3	4.7	4.0 - 5.6	52	3.25	0.25	7.8	3.3	2.4 - 4.1
Siemens Dimension	21	4.21	0.53	12.7	4.0	2.6 - 5.9	21	3.05	0.27	8.9	3.0	2.2 - 3.9
TOSOH ST AIA PACK	18	5.81	0.61	10.5	5.9	3.9 - 7.7	18	3.64	0.33	9.2	3.7	2.6 - 4.7

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	134	0.31	0.05	16.8	0.3	0.1 - 0.5	138	8.99	1.25	13.9	9.0	5.2 - 12.8
All Abbott Instruments	10	0.30	0.01	0.0	0.3	0.2 - 0.4	11	8.76	0.26	3.0	8.7	7.9 - 9.6
All Roche Instruments	10	0.40	0.01	0.0	0.4	0.3 - 0.5	10	8.50	0.39	4.6	8.5	7.3 - 9.7
All TOSOH Instruments	26	0.37	0.06	15.4	0.4	0.1 - 0.6	26	10.25	0.77	7.5	10.2	7.9 - 12.6
Abbott Architect	10	0.30	0.01	0.0	0.3	0.2 - 0.4	11	8.76	0.26	3.0	8.7	7.9 - 9.6
Beckman ACCESS / 2 / DxI	46	0.30	0.01	0.0	0.3	0.2 - 0.4	52	8.77	0.81	9.2	9.0	6.3 - 11.2
Siemens Dimension	19	0.29	0.03	10.9	0.3	0.1 - 0.4	21	7.47	1.34	18.0	7.1	3.4 - 11.6
TOSOH ST AIA PACK	18	0.36	0.06	16.8	0.4	0.1 - 0.6	18	10.07	0.81	8.1	10.1	7.6 - 12.6

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	137	2.74	0.38	13.9	2.7	1.5 - 3.9
All Abbott Instruments	11	2.59	0.09	3.6	2.6	2.3 - 2.9
All Roche Instruments	10	2.92	0.09	3.1	2.9	2.6 - 3.2
All TOSOH Instruments	26	3.25	0.32	10.0	3.2	2.2 - 4.3
Abbott Architect	11	2.59	0.09	3.6	2.6	2.3 - 2.9
Beckman ACCESS / 2 / DxI	51	2.60	0.12	4.7	2.6	2.2 - 3.0
Siemens Dimension	21	2.30	0.25	11.0	2.2	1.5 - 3.1
TOSOH ST AIA PACK	18	3.23	0.37	11.6	3.2	2.1 - 4.4

Serum hCG – Qualitative

	Specimen HCG-1		Specimen HCG-2	
Method	***Positive***	***Negative***	***Positive***	***Negative***
ALL METHODS	-	134	134	-
AimStep Combo Pregnancy	-	1	1	-
Alere hCG Combo Cassette	-	2	2	-
Beckman ACCESS / 2 / DxI	-	1	1	-
Beckman Coulter ICON 20 hCG	-	67	67	-
Beckman Coulter ICON 25 hCG	-	4	4	-
BTNX Rapid Response hCG	-	1	1	-
Cardinal Health SP Brand combo	-	13	13	-
CONSULT diagnostics hCG Combo	-	9	9	-
Henry Schein One Step + Combo	-	5	5	-
McKesson hCG Combo Cassette	-	5	5	-
Medline hCG Combo Test Cassette	-	2	2	-
PSS Select hCG Combo	-	1	1	-
Quidel QuickVue + One-Step	-	6	6	-
Quidel QuickVue One-Step Combo	-	12	12	-
Quidel QuickVue Semi-Q hCG	-	1	1	-
Sekisui OSOM hCG Combo Test	-	2	2	-
Stanbio QUPID Plus	-	2	2	-

Serum hCG – Qualitative

	Specimen HCG-3		Specimen HCG-4	
Method	***Positive***	***Negative***	***Positive***	***Negative***
ALL METHODS	134	-	134	-
AimStep Combo Pregnancy	1	-	1	-
Alere hCG Combo Cassette	2	-	2	-
Beckman ACCESS / 2 / DxI	1	-	1	-
Beckman Coulter ICON 20 hCG	67	-	67	-
Beckman Coulter ICON 25 hCG	4	-	4	-
BTNX Rapid Response hCG	1	-	1	-
Cardinal Health SP Brand combo	13	-	13	-
CONSULT diagnostics hCG Combo	9	-	9	-
Henry Schein One Step + Combo	5	-	5	-
McKesson hCG Combo Cassette	5	-	5	-
Medline hCG Combo Test Cassette	2	-	2	-
PSS Select hCG Combo	1	-	1	-
Quidel QuickVue + One-Step	6	-	6	-
Quidel QuickVue One-Step Combo	12	-	12	-
Quidel QuickVue Semi-Q hCG	1	-	1	-
Sekisui OSOM hCG Combo Test	2	-	2	-
Stanbio QUPID Plus	2	-	2	-

Serum hCG – Qualitative

Specimen HCG-5

Method	*Positive*	*Negative*
ALL METHODS	-	134
AimStep Combo Pregnancy	-	1
Alere hCG Combo Cassette	-	2
Beckman ACCESS / 2 / DxI	-	1
Beckman Coulter ICON 20 hCG	-	67
Beckman Coulter ICON 25 hCG	-	4
BTNX Rapid Response hCG	-	1
Cardinal Health SP Brand combo	-	13
CONSULT diagnostics hCG Combo	-	9
Henry Schein One Step + Combo	-	5
McKesson hCG Combo Cassette	-	5
Medline hCG Combo Test Cassette	-	2
PSS Select hCG Combo	-	1
Quidel QuickVue + One-Step	-	6
Quidel QuickVue One-Step Combo	-	12
Quidel QuickVue Semi-Q hCG	-	1
Sekisui OSOM hCG Combo Test	-	2
Stanbio QUPID Plus	-	2

Serum hCG – Quantitative (mIU/mL)

Specimen HCG-1

Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	17	0.9	0.6	61.2	1	0 - 3

Specimen HCG-2

Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	18	356.8	160.4	45.0	312	36 - 678

Specimen HCG-3

Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	18	2392.9	1629.4	68.1	1981	0 - 5652

Specimen HCG-4

Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	18	3094.3	1741.6	56.3	2869	0 - 6578

Specimen HCG-5

Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	17	0.9	0.6	62.0	1	0 - 3

Cholesterol, Total (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	169	152.0	5.5	3.6	152	136 - 168	169	302.5	22.3	7.4	295	272 - 333
All Alfa Wassermann Reagents	20	155.4	4.1	2.6	157	139 - 171	20	292.7	10.1	3.5	294	263 - 322
All Horiba Pentra Reagents	12	150.1	2.2	1.5	150	135 - 166	12	283.3	5.4	1.9	282	254 - 312
All Roche Reagents	15	148.6	3.6	2.4	150	133 - 164	15	287.3	5.7	2.0	288	258 - 317
Abaxis Piccolo												
All Chemistry Instruments	5	147.2	2.9	2.0	147	132 - 162	5	284.4	4.3	1.5	285	255 - 313
Alere Cholestech LDX												
Alere Cholestech LDX - waived	38	156.1	7.1	4.5	155	140 - 172	38	326.2	18.0	5.5	326	293 - 359
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	155.4	4.1	2.6	157	139 - 171	20	292.7	10.1	3.5	294	263 - 322
Beckman AU												
Beckman AU systems	24	149.9	4.0	2.7	150	134 - 165	23	292.7	5.1	1.8	293	263 - 322
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	150.1	2.2	1.5	150	135 - 166	12	283.3	5.4	1.9	282	254 - 312
Roche cobas c 501												
Roche cobas 6000 / c 501	8	149.5	3.2	2.1	151	134 - 165	8	288.8	4.2	1.5	289	259 - 318
Roche Integra												
Roche Integra	6	147.0	4.0	2.7	149	132 - 162	6	284.3	6.7	2.3	284	255 - 313
Siemens Healthcare												
Siemens Dimension	22	149.5	4.4	3.0	149	134 - 165	22	291.2	8.6	3.0	290	262 - 321
All Chemistry Instruments	23	149.7	4.5	3.0	149	134 - 165	23	291.7	8.8	3.0	290	262 - 321
VITROS												
VITROS 250,350,400 500,700,750,950	17	150.6	5.2	3.5	150	135 - 166	16	330.4	14.3	4.3	329	297 - 364
All Chemistry Instruments	19	151.2	5.2	3.5	151	136 - 167	18	333.0	15.5	4.7	332	299 - 367

Cholesterol, Total (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	127	63.8	3.5	5.5	64	57 - 71	134	237.7	8.6	3.6	237	213 - 262
All Alfa Wassermann Reagents	20	67.9	1.8	2.7	68	61 - 75	20	237.9	5.7	2.4	239	214 - 262
All Horiba Pentra Reagents	12	64.1	1.2	1.9	64	57 - 71	12	234.3	4.9	2.1	236	210 - 258
All Roche Reagents	15	63.5	1.4	2.1	64	57 - 70	15	233.5	5.7	2.4	235	210 - 257
Abaxis Piccolo												
All Chemistry Instruments	3	-	-	-	62	55 - 68	3	-	-	-	222	198 - 244
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	100.0	0.1	0.0	100	90 - 110	5	249.0	11.7	4.7	249	224 - 274
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	67.9	1.8	2.7	68	61 - 75	20	237.9	5.7	2.4	239	214 - 262
Beckman AU												
Beckman AU systems	24	63.7	2.3	3.6	64	57 - 71	24	235.4	5.9	2.5	236	211 - 259
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	64.1	1.2	1.9	64	57 - 71	12	234.3	4.9	2.1	236	210 - 258
Roche cobas c 501												
Roche cobas 6000 / c 501	8	64.0	1.3	2.0	64	57 - 71	8	234.9	5.5	2.3	235	211 - 259
Roche Integra												
Roche Integra	6	62.7	1.2	1.9	63	56 - 69	6	230.7	5.5	2.4	230	207 - 254
Siemens Healthcare												
Siemens Dimension	21	64.7	3.0	4.6	64	58 - 72	22	235.3	6.0	2.5	236	211 - 259
All Chemistry Instruments	22	64.7	2.9	4.5	64	58 - 72	23	235.3	5.8	2.5	236	211 - 259
VITROS												
VITROS 250,350,400 500,700,750,950	17	58.8	1.5	2.5	58	52 - 65	17	245.0	9.1	3.7	248	220 - 270
All Chemistry Instruments	19	58.8	1.5	2.6	58	52 - 65	19	246.4	9.6	3.9	249	221 - 272

Cholesterol, Total (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	132	108.7	3.2	2.9	109	97 - 120
All Alfa Wassermann Reagents	20	111.9	3.4	3.0	112	100 - 124
All Horiba Pentra Reagents	12	108.5	2.5	2.3	108	97 - 120
All Roche Reagents	15	107.4	2.8	2.6	108	96 - 119
Abaxis Piccolo						
All Chemistry Instruments	3	-	-	-	107	96 - 118
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	107.4	2.3	2.1	107	96 - 119
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	111.9	3.4	3.0	112	100 - 124
Beckman AU						
Beckman AU systems	23	108.7	2.1	2.0	109	97 - 120
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	12	108.5	2.5	2.3	108	97 - 120
Roche cobas c 501						
Roche cobas 6000 / c 501	8	108.4	3.0	2.7	109	97 - 120
Roche Integra						
Roche Integra	6	106.0	2.3	2.2	106	95 - 117
Siemens Healthcare						
Siemens Dimension	22	108.1	3.3	3.1	108	97 - 119
All Chemistry Instruments	23	108.2	3.3	3.0	108	97 - 120
VITROS						
VITROS 250,350,400 500,700,750,950	17	107.5	3.7	3.4	108	96 - 119
All Chemistry Instruments	19	107.4	3.5	3.2	107	96 - 119

LDL Cholesterol - Calculated (mg/dL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	121	51.9	9.2	17.7	53	33 - 71	120	202.6	31.0	15.3	203	140 - 265
Calculated-Trig/5												
Alere Cholestech LDX - waived	37	55.2	7.0	12.8	55	38 - 72	36	239.0	18.7	7.8	237	167 - 311
Alfa Wassermann ACE Alera/Axcel	15	56.7	4.6	8.1	56	39 - 74	15	173.2	9.5	5.5	174	121 - 226
Beckman AU systems	16	54.9	3.7	6.7	56	38 - 72	16	170.8	5.3	3.1	171	119 - 223
Horiba ABX Pentra 400 / C400	9	63.2	12.7	20.1	60	37 - 89	9	167.3	5.9	3.5	168	117 - 218
Siemens Dimension	9	39.3	3.7	9.3	39	27 - 52	9	209.3	5.5	2.6	210	146 - 273
VITROS 250,350,400 500,700,750,950	12	40.8	7.9	19.4	39	24 - 57	11	210.5	16.2	7.7	211	147 - 274
All Chemistry Instruments	117	52.1	9.1	17.5	53	33 - 71	116	202.5	31.4	15.5	202	139 - 266

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	83	18.6	5.4	29.0	18	7 - 30	79	81.5	14.6	18.0	83	52 - 111
Calculated-Trig/5												
Alere Cholestech LDX - waived	1	-	-	-	61	8 - 30	1	-	-	-	84	52 - 111
Alfa Wassermann ACE Alera/Axcel	15	19.4	3.1	15.8	19	13 - 26	15	91.1	9.3	10.2	93	63 - 119
Beckman AU systems	16	21.5	1.8	8.5	21	15 - 28	16	83.8	5.9	7.0	84	58 - 109
Horiba ABX Pentra 400 / C400	9	23.2	2.3	10.0	23	16 - 31	9	93.8	5.3	5.7	95	65 - 122
Siemens Dimension	9	12.4	3.0	23.8	12	6 - 19	9	69.3	5.0	7.3	71	48 - 91
VITROS 250,350,400 500,700,750,950	12	12.7	1.8	14.4	12	8 - 17	11	59.6	16.0	26.9	61	27 - 92
All Chemistry Instruments	79	18.6	5.3	28.3	19	8 - 30	76	81.5	14.4	17.7	84	52 - 111

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	87	35.5	7.1	19.9	36	21 - 50
Calculated-Trig/5						
Alere Cholestech LDX - waived	4	-	-	-	40	21 - 50
Alfa Wassermann ACE Alera/Axcel	15	36.7	4.0	10.8	37	25 - 48
Beckman AU systems	16	39.5	2.7	6.9	40	27 - 52
Horiba ABX Pentra 400 / C400	9	42.8	3.5	8.2	44	29 - 56
Siemens Dimension	9	26.7	3.2	11.9	28	18 - 35
VITROS 250,350,400 500,700,750,950	12	28.8	4.0	14.0	29	20 - 38
All Chemistry Instruments	83	35.5	7.1	19.9	36	21 - 50

LDL Cholesterol - Direct (mg/dL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	41	56.3	12.8	22.7	54	30 - 82	41	149.3	20.9	14.0	153	104 - 195
Beckman AU Direct HDL / LDL												
Beckman AU systems	12	42.5	1.3	3.1	43	29 - 56	12	123.8	8.1	6.5	125	86 - 161
Roche LDL Direct												
Roche cobas 6000 / c 501	6	76.8	1.5	1.9	77	53 - 100	6	176.0	3.3	1.9	176	123 - 229
All Chemistry Instruments	9	77.0	1.9	2.4	77	53 - 101	9	177.2	3.3	1.9	178	124 - 231
Siemens Automated LDL												
Siemens Dimension	11	56.6	2.9	5.1	57	39 - 74	11	154.8	8.7	5.6	155	108 - 202

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	40	21.6	5.7	26.4	22	10 - 34	40	88.7	19.1	21.5	86	50 - 127
Beckman AU Direct HDL / LDL												
Beckman AU systems	12	15.5	0.7	4.3	16	10 - 21	12	69.5	2.3	3.3	70	48 - 91
Roche LDL Direct												
Roche cobas 6000 / c 501	6	30.8	0.8	2.4	31	21 - 41	6	122.7	2.9	2.4	123	85 - 160
All Chemistry Instruments	9	34.8	11.0	31.6	31	12 - 57	9	134.4	37.8	28.1	122	58 - 211
Siemens Automated LDL												
Siemens Dimension	11	22.6	1.3	5.7	23	15 - 30	11	89.8	4.1	4.6	90	62 - 117

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	40	39.3	9.2	23.5	38	20 - 58
Beckman AU Direct HDL / LDL						
Beckman AU systems	12	29.6	1.1	3.7	30	20 - 39
Roche LDL Direct						
Roche cobas 6000 / c 501	6	54.8	0.8	1.4	55	38 - 72
All Chemistry Instruments	9	60.8	17.3	28.5	55	26 - 96
Siemens Automated LDL						
Siemens Dimension	11	40.3	2.0	5.0	41	28 - 53

Cholesterol, HDL (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	168	68.0	7.3	10.7	66	47 - 89	167	81.0	18.7	23.1	87	56 - 106
All Dex-Sulfate 50,000 MW Methods	38	67.8	6.6	9.7	66	47 - 89	37	62.1	9.3	15.0	60	43 - 81
All Direct Methods	111	67.0	7.6	11.3	65	46 - 88	111	84.8	18.0	21.2	95	59 - 111
Abaxis Piccolo												
All Chemistry Instruments	5	61.6	3.8	6.1	62	43 - 81	5	53.6	4.1	7.6	51	37 - 70
Alere Cholestech LDX												
Alere Cholestech LDX - waived	38	67.8	6.6	9.7	66	47 - 89	37	62.1	9.3	15.0	60	43 - 81
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	20	64.3	3.3	5.2	65	45 - 84	20	96.7	4.7	4.8	97	67 - 126
All Chemistry Instruments	21	64.2	3.3	5.1	64	44 - 84	21	96.8	4.6	4.8	97	67 - 126
Beckman AU Direct HDL / LDL												
Beckman AU systems	22	62.7	3.0	4.8	62	43 - 82	22	99.7	4.5	4.5	100	69 - 130
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	58.1	3.1	5.4	58	40 - 76	12	95.2	5.0	5.3	96	66 - 124
Roche HDL Direct												
Roche cobas 6000 / c 501	8	76.4	2.5	3.3	77	53 - 100	8	71.8	2.5	3.6	73	50 - 94
Roche Integra	5	75.2	3.3	4.3	77	52 - 98	5	68.0	3.1	4.5	69	47 - 89
All Chemistry Instruments	14	76.1	2.7	3.6	77	53 - 99	14	70.5	3.2	4.5	72	49 - 92
Siemens Automated HDL												
Siemens Dimension	20	77.4	1.3	1.7	78	54 - 101	21	59.7	2.3	3.9	60	41 - 78
All Chemistry Instruments	21	77.4	1.3	1.7	78	54 - 101	22	59.7	2.3	3.8	60	41 - 78
VITROS												
VITROS 250,350,400 500,700,750,950	5	72.4	4.4	6.1	74	50 - 95	5	92.2	4.4	4.8	91	64 - 120
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	12	74.7	2.5	3.4	75	52 - 98	12	96.1	6.6	6.9	97	67 - 125
All Chemistry Instruments	14	74.8	2.4	3.2	75	52 - 98	14	96.8	6.3	6.5	97	67 - 126

Cholesterol, HDL (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	133	28.5	4.7	16.5	29	19 - 38	129	108.3	13.1	12.1	105	75 - 141
All Dex-Sulfate 50,000 MW Methods	5	18.8	4.8	25.3	16	13 - 25	5	100.0	0.1	0.0	100	70 - 130
All Direct Methods	109	28.9	4.6	15.9	28	20 - 38	106	105.5	10.7	10.2	104	73 - 138
Abaxis Piccolo												
All Chemistry Instruments	3	-	-	-	21	13 - 26	0	-	-	-	0	[No Laboratory]
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	18.8	4.8	25.3	16	13 - 25	5	100.0	0.1	0.0	100	70 - 130
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	20	30.2	1.7	5.6	31	21 - 40	20	97.3	5.8	5.9	98	68 - 127
All Chemistry Instruments	21	30.0	1.7	5.7	30	21 - 40	21	97.6	5.8	5.9	98	68 - 127
Beckman AU Direct HDL / LDL												
Beckman AU systems	22	26.0	1.7	6.7	26	18 - 34	22	102.8	5.7	5.6	104	71 - 134
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	24.3	1.2	5.1	24	17 - 32	12	93.3	5.0	5.4	93	65 - 122
Roche HDL Direct												
Roche cobas 6000 / c 501	8	29.6	0.9	3.1	30	20 - 39	8	121.8	3.9	3.2	122	85 - 159
Roche Integra	5	29.6	1.1	3.9	30	20 - 39	5	117.2	6.3	5.3	119	82 - 153
All Chemistry Instruments	14	29.6	0.9	3.2	30	20 - 39	14	120.3	5.1	4.3	122	84 - 157
Siemens Automated HDL												
Siemens Dimension	21	36.2	0.9	2.4	36	25 - 48	21	116.6	2.9	2.5	116	81 - 152
All Chemistry Instruments	22	36.2	0.9	2.4	36	25 - 48	22	116.4	2.9	2.5	116	81 - 152
VITROS												
VITROS 250,350,400 500,700,750,950	5	28.2	1.9	6.8	29	19 - 37	5	122.2	9.5	7.8	124	85 - 159
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	12	28.8	1.0	3.4	29	20 - 38	11	127.3	12.3	9.7	130	89 - 166
All Chemistry Instruments	14	28.8	0.9	3.1	29	20 - 38	13	129.0	12.5	9.7	130	90 - 168

Cholesterol, HDL (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	132	48.6	6.1	12.5	49	34 - 64
All Dex-Sulfate 50,000 MW Methods	5	37.4	13.3	35.6	41	26 - 49
All Direct Methods	109	48.3	6.4	13.3	47	33 - 63
Abaxis Piccolo						
All Chemistry Instruments	3	-	-	-	40	26 - 50
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	37.4	13.3	35.6	41	26 - 49
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	20	48.5	3.6	7.4	48	33 - 63
All Chemistry Instruments	20	47.8	2.6	5.5	48	33 - 63
Beckman AU Direct HDL / LDL						
Beckman AU systems	22	44.1	2.8	6.3	45	30 - 58
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	12	41.0	2.1	5.2	41	28 - 54
Roche HDL Direct						
Roche cobas 6000 / c 501	8	53.5	1.4	2.6	54	37 - 70
Roche Integra	5	52.6	2.6	5.0	53	36 - 69
All Chemistry Instruments	14	53.2	1.8	3.5	54	37 - 70
Siemens Automated HDL						
Siemens Dimension	21	57.5	1.0	1.7	57	40 - 75
All Chemistry Instruments	22	57.4	1.0	1.8	57	40 - 75
VITROS						
VITROS 250,350,400 500,700,750,950	5	50.8	2.3	4.5	51	35 - 67
VITROS dHDL Slide						
VITROS 250,350,400 500,700,750,950	12	51.8	1.1	2.2	52	36 - 68
All Chemistry Instruments	14	51.7	1.1	2.1	52	36 - 68

Triglycerides (mg/dL)

	Specimen CH-1						Specimen CH-2					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	164	167.3	9.6	5.7	167	125 - 210	167	118.8	10.1	8.5	117	89 - 149
All Alfa Wassermann Reagents	19	171.6	4.7	2.7	173	128 - 215	20	120.6	5.3	4.4	122	90 - 151
All Horiba Pentra Reagents	12	163.5	4.3	2.6	165	122 - 205	12	107.9	4.7	4.4	108	80 - 135
All Roche Reagents	15	160.9	4.2	2.6	161	120 - 202	15	114.1	2.6	2.3	115	85 - 143
Abaxis Piccolo												
All Chemistry Instruments	5	175.6	1.1	0.6	176	131 - 220	5	121.0	2.2	1.8	121	90 - 152
Alere Cholestech LDX												
Alere Cholestech LDX - waived	36	167.1	7.0	4.2	167	125 - 209	37	126.9	6.2	4.9	126	95 - 159
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	171.6	4.7	2.7	173	128 - 215	20	120.6	5.3	4.4	122	90 - 151
Beckman AU												
Beckman AU systems	24	168.3	2.6	1.5	168	126 - 211	24	113.0	2.1	1.9	114	84 - 142
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	163.5	4.3	2.6	165	122 - 205	12	107.9	4.7	4.4	108	80 - 135
Roche cobas c 501												
Roche cobas 6000 / c 501	8	158.8	3.3	2.1	160	119 - 199	8	114.1	2.5	2.2	114	85 - 143
Roche Integra												
Roche Integra	6	163.8	4.2	2.5	164	122 - 205	6	113.7	2.9	2.6	115	85 - 143
Siemens Healthcare												
Siemens Dimension	22	157.7	2.1	1.3	159	118 - 198	22	107.8	3.1	2.9	107	80 - 135
All Chemistry Instruments	22	157.7	2.1	1.3	159	118 - 198	23	108.3	3.9	3.6	107	81 - 136
VITROS												
VITROS 250,350,400 500,700,750,950	17	187.2	7.2	3.8	185	140 - 235	17	135.6	5.9	4.3	137	101 - 170
All Chemistry Instruments	19	186.4	7.3	3.9	185	139 - 233	19	134.8	6.1	4.5	133	101 - 169

Triglycerides (mg/dL)

	Specimen CH-3						Specimen CH-4					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	133	83.5	5.7	6.9	84	62 - 105	134	249.2	20.3	8.1	246	186 - 312
All Alfa Wassermann Reagents	20	89.8	2.5	2.8	90	67 - 113	20	246.3	6.7	2.7	246	184 - 308
All Horiba Pentra Reagents	12	82.6	2.6	3.2	83	61 - 104	12	237.3	8.7	3.7	240	177 - 297
All Roche Reagents	15	83.4	2.4	2.9	83	62 - 105	15	230.4	5.1	2.2	231	172 - 288
Abaxis Piccolo												
All Chemistry Instruments	3	-	-	-	87	64 - 108	3	-	-	-	265	199 - 333
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	82.4	4.5	5.5	85	61 - 103	5	253.2	7.6	3.0	254	189 - 317
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	89.8	2.5	2.8	90	67 - 113	20	246.3	6.7	2.7	246	184 - 308
Beckman AU												
Beckman AU systems	24	84.0	1.9	2.3	84	62 - 105	24	251.4	4.3	1.7	250	188 - 315
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	82.6	2.6	3.2	83	61 - 104	12	237.3	8.7	3.7	240	177 - 297
Roche cobas c 501												
Roche cobas 6000 / c 501	8	81.8	1.7	2.0	82	61 - 103	8	227.9	4.3	1.9	228	170 - 285
Roche Integra												
Roche Integra	6	85.3	1.9	2.2	86	63 - 107	6	233.3	4.9	2.1	234	174 - 292
Siemens Healthcare												
Siemens Dimension	22	74.8	2.2	3.0	74	56 - 94	22	239.4	4.5	1.9	240	179 - 300
All Chemistry Instruments	22	74.8	2.2	3.0	74	56 - 94	23	239.8	4.8	2.0	240	179 - 300
VITROS												
VITROS 250,350,400 500,700,750,950	17	89.4	3.8	4.2	89	67 - 112	17	291.0	10.1	3.5	289	218 - 364
All Chemistry Instruments	19	88.9	3.8	4.2	88	66 - 112	19	289.9	10.1	3.5	289	217 - 363

Triglycerides (mg/dL)

Specimen CH-5

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	134	127.2	8.5	6.7	127	95 - 159
All Alfa Wassermann Reagents	18	131.9	1.8	1.4	132	98 - 165
All Horiba Pentra Reagents	12	125.6	4.8	3.8	126	94 - 157
All Roche Reagents	15	124.5	3.0	2.4	125	93 - 156
Abaxis Piccolo						
All Chemistry Instruments	3	-	-	-	131	98 - 164
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	125.4	5.0	4.0	125	94 - 157
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	18	131.9	1.8	1.4	132	98 - 165
Beckman AU						
Beckman AU systems	24	127.3	3.1	2.4	128	95 - 160
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	12	125.6	4.8	3.8	126	94 - 157
Roche cobas c 501						
Roche cobas 6000 / c 501	8	122.8	2.3	1.8	124	92 - 154
Roche Integra						
Roche Integra	6	126.5	2.7	2.2	126	94 - 159
Siemens Healthcare						
Siemens Dimension	22	117.3	3.2	2.8	117	87 - 147
All Chemistry Instruments	23	117.8	3.9	3.3	117	88 - 148
VITROS						
VITROS 250,350,400 500,700,750,950	17	139.9	5.9	4.2	139	104 - 175
All Chemistry Instruments	19	139.1	6.1	4.4	137	104 - 174

Acetaminophen (µg/mL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	5	74.17	1.23	1.7	74.5	63.0 - 85.3	5	0.67	1.15	173.2	0.0	0.0 - 3.2
Siemens Dimension	5	74.17	1.23	1.7	74.5	63.0 - 85.3	5	0.67	1.15	173.2	0.0	0.0 - 3.2

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	5	17.23	0.93	5.4	16.8	14.6 - 19.9	5	136.80	2.52	1.8	136.4	116.2 - 157.4
Siemens Dimension	5	17.23	0.93	5.4	16.8	14.6 - 19.9	5	136.80	2.52	1.8	136.4	116.2 - 157.4

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	5	45.93	1.10	2.4	45.4	39.0 - 52.9
Siemens Dimension	5	45.93	1.10	2.4	45.4	39.0 - 52.9

Carbamazepine (µg/mL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	7	8.70	0.17	2.0	8.6	6.5 - 10.9	7	3.30	0.17	5.2	3.4	2.4 - 4.2
Siemens Dimension	5	8.70	0.17	2.0	8.6	6.5 - 10.9	5	3.30	0.17	5.2	3.4	2.4 - 4.2

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	7	3.07	0.23	7.5	3.2	2.3 - 3.9	7	13.83	0.25	1.8	13.8	10.3 - 17.3
Siemens Dimension	5	3.07	0.23	7.5	3.2	2.3 - 3.9	5	13.83	0.25	1.8	13.8	10.3 - 17.3

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	7	5.77	0.32	5.6	5.9	4.3 - 7.3
Siemens Dimension	5	5.77	0.32	5.6	5.9	4.3 - 7.3

Digoxin (ng/mL)

Method	Labs	Mean	SD	CV	Median	Range
Specimen CH-1						
All Method	7	1.23	0.22	18.1	1.3	0.9 - 1.5
Siemens Dimension	5	1.33	0.06	4.3	1.3	1.0 - 1.6
Specimen CH-2						
All Method	7	0.23	0.13	55.9	0.2	0.0 - 0.5
Siemens Dimension	5	0.17	0.06	34.6	0.2	0.0 - 0.4
Specimen CH-3						
All Method	7	0.45	0.06	12.8	0.5	0.2 - 0.7
Siemens Dimension	5	0.47	0.06	12.4	0.5	0.2 - 0.7
Specimen CH-4						
All Method	7	2.10	0.24	11.7	2.1	1.6 - 2.6
Siemens Dimension	5	2.20	0.17	7.9	2.1	1.7 - 2.7
Specimen CH-5						
All Method	7	0.83	0.10	11.6	0.9	0.6 - 1.1
Siemens Dimension	5	0.87	0.06	6.7	0.9	0.6 - 1.1

Gentamicin (µg/mL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	5	5.70	0.14	2.5	5.7	4.2 - 7.2	5	0.60	0.01	0.0	0.6	0.4 - 0.8
Siemens Dimension	5	5.70	0.14	2.5	5.7	4.2 - 7.2	5	0.60	0.01	0.0	0.6	0.4 - 0.8

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	5	0.50	0.28	56.6	0.5	0.3 - 0.7	5	10.95	0.78	7.1	11.0	8.2 - 13.7
Siemens Dimension	5	0.50	0.28	56.6	0.5	0.3 - 0.7	5	10.95	0.78	7.1	11.0	8.2 - 13.7

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	5	3.45	0.07	2.0	3.5	2.5 - 4.4
Siemens Dimension	5	3.45	0.07	2.0	3.5	2.5 - 4.4

Lithium (mmol/L)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	5	1.33	0.06	4.3	1.3	1.0 - 1.7	5	0.30	0.01	0.0	0.3	0.0 - 0.6
Siemens Dimension	5	1.33	0.06	4.3	1.3	1.0 - 1.7	5	0.30	0.01	0.0	0.3	0.0 - 0.6

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	5	0.27	0.06	21.6	0.3	0.0 - 0.6	5	2.40	0.01	0.0	2.4	1.9 - 2.9
Siemens Dimension	5	0.27	0.06	21.6	0.3	0.0 - 0.6	5	2.40	0.01	0.0	2.4	1.9 - 2.9

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	5	0.80	0.01	0.0	0.8	0.5 - 1.1
Siemens Dimension	5	0.80	0.01	0.0	0.8	0.5 - 1.1

Phenobarbital (µg/mL)

Method	Labs	Mean	SD	CV	Median	Range
Specimen CH-1						
All Method	2	-	-	-	25.5	Not graded
Specimen CH-2						
All Method	2	-	-	-	18.0	Not graded
Specimen CH-3						
All Method	2	-	-	-	5.6	Not graded
Specimen CH-4						
All Method	2	-	-	-	48.1	Not graded
Specimen CH-5						
All Method	2	-	-	-	15.7	Not graded

Phenytoin (µg/mL)

Method	Labs	Mean	SD	CV	Median	Range
Specimen CH-1						
All Method	6	19.68	0.48	2.4	19.8	14.7 - 24.6
Siemens Dimension	5	19.65	0.54	2.8	19.7	14.7 - 24.6
Specimen CH-2						
All Method	6	7.78	0.59	7.6	7.7	5.8 - 9.8
Siemens Dimension	5	7.98	0.46	5.7	8.0	5.9 - 10.0
Specimen CH-3						
All Method	6	6.42	0.77	11.9	6.4	4.8 - 8.1
Siemens Dimension	5	6.15	0.54	8.9	6.1	4.6 - 7.7
Specimen CH-4						
All Method	6	34.08	0.75	2.2	34.1	25.5 - 42.6
Siemens Dimension	5	34.35	0.52	1.5	34.3	25.7 - 43.0
Specimen CH-5						
All Method	6	13.52	1.05	7.8	12.9	10.1 - 16.9
Siemens Dimension	5	13.73	1.09	7.9	13.4	10.2 - 17.2

Salicylate (mg/dL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	5	18.05	0.21	1.2	18.1	13.5 - 22.6	5	8.85	0.35	4.0	8.9	6.6 - 11.1
Siemens Dimension	5	18.05	0.21	1.2	18.1	13.5 - 22.6	5	8.85	0.35	4.0	8.9	6.6 - 11.1

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	5	7.50	0.57	7.5	7.5	5.6 - 9.4	5	28.70	0.01	0.0	28.7	21.5 - 35.9
Siemens Dimension	5	7.50	0.57	7.5	7.5	5.6 - 9.4	5	28.70	0.01	0.0	28.7	21.5 - 35.9

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	5	13.05	0.07	0.5	13.1	9.7 - 16.4
Siemens Dimension	5	13.05	0.07	0.5	13.1	9.7 - 16.4

Theophylline (µg/mL)

Method	Specimen CH-1 Labs	Mean	SD	CV	Median	Range	Specimen CH-2 Labs	Mean	SD	CV	Median	Range
All Method	3	-	-	-	24.5	Not graded	3	-	-	-	10.2	Not graded

Method	Specimen CH-3 Labs	Mean	SD	CV	Median	Range	Specimen CH-4 Labs	Mean	SD	CV	Median	Range
All Method	3	-	-	-	9.5	Not graded	3	-	-	-	38.9	Not graded

Method	Specimen CH-5 Labs	Mean	SD	CV	Median	Range
All Method	3	-	-	-	17.1	Not graded

Valproic Acid (µg/mL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	80.76	1.36	1.7	80.5	60.5 - 101.0	7	35.06	1.57	4.5	35.0	26.2 - 43.9
Siemens Dimension	5	80.20	0.62	0.8	80.4	60.1 - 100.3	5	35.33	1.68	4.8	35.7	26.4 - 44.2
	Specimen CH-3						**Specimen CH-4**					
All Method	7	32.28	3.37	10.4	33.7	24.2 - 40.4	7	128.52	7.86	6.1	132.7	96.3 - 160.7
Siemens Dimension	5	31.60	3.47	11.0	31.6	23.7 - 39.5	5	129.90	8.35	6.4	133.3	97.4 - 162.4
	Specimen CH-5											
All Method	7	57.68	2.21	3.8	57.0	43.2 - 72.1						
Siemens Dimension	5	58.10	2.31	4.0	58.1	43.5 - 72.7						

Vancomycin (µg/mL)

	Specimen CH-1						Specimen CH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	6	30.40	2.05	6.8	30.1	22.8 - 38.0	6	1.45	0.68	46.6	1.4	0.4 - 2.5
Siemens Dimension	5	31.07	1.91	6.2	30.8	23.3 - 38.9	5	1.17	0.45	38.7	1.2	0.1 - 2.2
	Specimen CH-3						**Specimen CH-4**					
All Method	6	2.65	0.42	15.9	2.6	1.6 - 3.7	6	54.05	3.35	6.2	54.1	40.5 - 67.6
Siemens Dimension	5	2.47	0.25	10.2	2.5	1.4 - 3.5	5	54.27	4.07	7.5	54.7	40.7 - 67.9
	Specimen CH-5											
All Method	6	16.60	1.38	8.3	17.0	12.4 - 20.8						
Siemens Dimension	5	17.23	0.67	3.9	17.4	12.9 - 21.6						

Blood Lead (µg/dL)

	Specimen LED-1						Specimen LED-2					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	24	4.06	0.70	17.3	4.0	0.0 - 8.1	17	34.48	2.69	7.8	34.4	30.4 - 38.5
All Magellan Diagnostics Methods	24	4.06	0.70	17.3	4.0	0.0 - 8.1	17	34.48	2.69	7.8	34.4	30.4 - 38.5
Magellan Diagnostics LeadCare II	24	4.06	0.70	17.3	4.0	0.0 - 8.1	17	34.48	2.69	7.8	34.4	30.4 - 38.5

Neonatal Bilirubin, Total (mg/dL)

	Specimen NB-1						Specimen NB-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	28	6.96	0.35	5.1	6.9	5.5 - 8.4	27	19.26	0.81	4.2	19.5	15.4 - 23.2
No Reagent Required												
Bilirubinometer / Unistat	18	6.93	0.36	5.1	6.9	5.5 - 8.4	18	19.39	0.65	3.4	19.4	15.5 - 23.3
All Chemistry Instruments	22	6.94	0.37	5.3	6.9	5.5 - 8.4	21	19.27	0.77	4.0	19.2	15.4 - 23.2
	Specimen NB-3						**Specimen NB-4**					
All Method	26	0.05	0.08	164.8	0.0	0.0 - 0.5	28	12.65	0.79	6.2	12.7	10.1 - 15.2
No Reagent Required												
Bilirubinometer / Unistat	18	0.00	0.01	0.0	0.0	0.0 - 0.4	18	12.87	0.79	6.1	12.9	10.2 - 15.5
All Chemistry Instruments	22	0.07	0.18	248.1	0.0	0.0 - 0.5	22	12.78	0.81	6.4	12.9	10.2 - 15.4
	Specimen NB-5											
All Method	28	17.85	1.07	6.0	17.8	14.2 - 21.5						
No Reagent Required												
Bilirubinometer / Unistat	18	18.18	1.03	5.7	18.1	14.5 - 21.9						
All Chemistry Instruments	22	18.00	1.13	6.3	17.9	14.4 - 21.6						

Bilirubin, Direct (mg/dL)

Method	Specimen NB-1 Labs	Mean	SD	CV	Median	Range	Specimen NB-2 Labs	Mean	SD	CV	Median	Range
All Method	10	1.74	0.34	19.6	1.7	1.0 - 2.5	10	4.15	0.56	13.4	4.1	3.0 - 5.3

Method	Specimen NB-3 Labs	Mean	SD	CV	Median	Range	Specimen NB-4 Labs	Mean	SD	CV	Median	Range
All Method	10	0.14	0.15	107.5	0.1	0.0 - 0.5	10	5.34	0.61	11.4	5.3	4.1 - 6.6

Method	Specimen NB-5 Labs	Mean	SD	CV	Median	Range
All Method	10	6.09	0.58	9.6	6.0	4.9 - 7.3

Blood Gases – pH

Method	Specimen BG-1 Labs	Mean	SD	CV	Median	Range	Specimen BG-2 Labs	Mean	SD	CV	Median	Range
All Method	11	7.153	0.019	0.3	7.15	7.11 - 7.20	11	7.185	0.006	0.1	7.19	7.14 - 7.23
i-STAT	11	7.153	0.019	0.3	7.15	7.11 - 7.20	11	7.185	0.006	0.1	7.19	7.14 - 7.23

Method	Specimen BG-3 Labs	Mean	SD	CV	Median	Range	Specimen BG-4 Labs	Mean	SD	CV	Median	Range
All Method	11	7.495	0.013	0.2	7.50	7.45 - 7.54	11	7.493	0.017	0.2	7.50	7.45 - 7.54
i-STAT	11	7.495	0.013	0.2	7.50	7.45 - 7.54	11	7.493	0.017	0.2	7.50	7.45 - 7.54

Method	Specimen BG-5 Labs	Mean	SD	CV	Median	Range
All Method	11	7.480	0.008	0.1	7.48	7.44 - 7.52
i-STAT	11	7.480	0.008	0.1	7.48	7.44 - 7.52

Blood Gases - pCO_2 (mmHg)

	Specimen BG-1						Specimen BG-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	68.60	0.98	1.4	68.9	63.1 - 74.1	11	56.03	1.29	2.3	56.3	51.0 - 61.1
i-STAT	11	68.60	0.98	1.4	68.9	63.1 - 74.1	11	56.03	1.29	2.3	56.3	51.0 - 61.1
	Specimen BG-3						**Specimen BG-4**					
All Method	11	23.73	0.59	2.5	23.7	18.7 - 28.8	11	27.88	1.23	4.4	28.2	22.8 - 32.9
i-STAT	11	23.73	0.59	2.5	23.7	18.7 - 28.8	11	27.88	1.23	4.4	28.2	22.8 - 32.9
	Specimen BG-5											
All Method	11	19.38	0.82	4.2	19.4	14.3 - 24.4						
i-STAT	11	19.38	0.82	4.2	19.4	14.3 - 24.4						

Blood Gases - pO_2 (mmHg)

	Specimen BG-1						Specimen BG-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	96.50	4.12	4.3	97.0	84.1 - 108.9	11	83.25	7.27	8.7	83.5	61.4 - 105.1
i-STAT	11	96.50	4.12	4.3	97.0	84.1 - 108.9	11	83.25	7.27	8.7	83.5	61.4 - 105.1
	Specimen BG-3						**Specimen BG-4**					
All Method	11	143.50	2.38	1.7	143.5	136.3 - 150.7	11	115.50	4.20	3.6	115.5	102.8 - 128.2
i-STAT	11	143.50	2.38	1.7	143.5	136.3 - 150.7	11	115.50	4.20	3.6	115.5	102.8 - 128.2
	Specimen BG-5											
All Method	11	156.00	15.87	10.2	161.0	108.3 - 203.7						
i-STAT	11	156.00	15.87	10.2	161.0	108.3 - 203.7						

Blood Gases – Ionized Calcium (mmol/L)

One participant reported results for Blood Gases-Ionized Calcium. The vendor mean assay values for specimens BG-1 through BG-5 are: 2.19 mmol/L, 2.1 mmol/L, 1.18 mmol/L, 0.86 mmol/L, and 0.77 mmolL, respectively.

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-1 through BG-5 are: 86 mmol/L, 75 mmol/L, 85 mmol/L, 116 mmol/L, and 103 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-1 through BG-5 are: 3.8 mmol/L, 2.7 mmol/L, 4.2 mmol/L, 6.4 mmol/L, and 6.1 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-1 through BG-5 are: 138 mmol/L, 125 mmol/L, 148 mmol/L, 168 mmol/L, and 145 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

	Specimen BG-1						Specimen BG-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	3.8	Not graded	3	-	-	-	4.7	Not graded
	Specimen BG-3						**Specimen BG-4**					
All Method	3	-	-	-	1.5	Not graded	3	-	-	-	1.0	Not graded
	Specimen BG-5											
All Method	3	-	-	-	1.2	Not graded						

Afinion Glycohemoglobin (percent)

	Specimen AFN-1						Specimen AFN-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	75	8.21	0.15	1.8	8.2	7.7 - 8.7	76	6.06	0.12	2.0	6.1	5.7 - 6.4
All Alere Afinion Analyzers	75	8.21	0.15	1.8	8.2	7.7 - 8.7	76	6.06	0.12	2.0	6.1	5.7 - 6.4
Alere Afinion 2	14	8.16	0.16	2.0	8.1	7.7 - 8.6	14	6.06	0.10	1.7	6.1	5.7 - 6.4
Alere Afinion AS100	61	8.22	0.14	1.7	8.2	7.8 - 8.7	62	6.06	0.12	2.0	6.1	5.7 - 6.4

Glycohemoglobin (percent)

	Specimen GH-1						Specimen GH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	108	7.07	0.23	3.3	7.1	6.7 - 7.5	107	10.95	0.45	4.1	11.0	10.4 - 11.6
All Bio-Rad Methods	5	7.22	0.27	3.7	7.1	6.8 - 7.6	5	10.72	0.33	3.1	10.7	10.1 - 11.3
All Enzymatic A1c Methods	5	6.67	0.15	2.3	6.7	6.3 - 7.1	5	10.43	0.15	1.5	10.4	9.9 - 11.0
All Hemoglobin A1c Methods	105	7.08	0.23	3.2	7.1	6.7 - 7.5	104	10.97	0.45	4.1	11.0	10.4 - 11.6
All Roche Methods	8	6.91	0.25	3.6	6.9	6.5 - 7.3	8	11.18	0.35	3.1	11.1	10.6 - 11.8
All TOSOH Methods	13	7.23	0.27	3.8	7.3	6.8 - 7.6	13	10.04	0.35	3.5	10.0	9.5 - 10.6
Beckman AU A1c	9	6.83	0.22	3.2	6.8	6.4 - 7.2	9	10.94	0.35	3.2	10.9	10.3 - 11.5
Bio-Rad D-10 HbA1C	5	7.22	0.27	3.7	7.1	6.8 - 7.6	5	10.72	0.33	3.1	10.7	10.1 - 11.3
Roche cobas c501 HbA1c	5	7.10	0.22	3.0	7.1	6.7 - 7.5	5	11.35	0.40	3.6	11.3	10.7 - 12.0
Roche Integra A1C	5	6.73	0.05	0.7	6.7	6.3 - 7.1	5	11.00	0.18	1.7	11.0	10.4 - 11.6
Siemens DCA Vantage	49	7.09	0.18	2.6	7.1	6.7 - 7.5	48	11.03	0.22	2.0	11.0	10.4 - 11.6
Siemens Dimension HA1C	7	7.03	0.16	2.3	7.0	6.6 - 7.4	6	10.97	0.30	2.7	11.0	10.4 - 11.6
Siemens Dimension HB1C	8	7.08	0.10	1.5	7.1	6.7 - 7.5	8	11.28	0.18	1.6	11.3	10.7 - 11.9
TOSOH G8	13	7.23	0.27	3.8	7.3	6.8 - 7.6	13	10.04	0.35	3.5	10.0	9.5 - 10.6

Whole Blood Glucose (mg/dL)

	Specimen WBG-1						Specimen WBG-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	262	71.0	15.5	21.9	67	56 - 86	259	322.1	35.5	11.0	333	257 - 387
All Abbott Methods	35	59.6	6.7	11.2	58	47 - 72	34	302.8	27.5	9.1	297	242 - 364
All Arkray Methods	15	88.2	3.8	4.3	89	70 - 106	14	343.9	13.7	4.0	345	275 - 413
All Bayer Methods	22	55.4	6.9	12.5	52	44 - 67	22	264.4	29.7	11.2	251	211 - 318
All Hemocue Methods	54	93.7	11.0	11.8	95	74 - 113	51	342.5	7.9	2.3	343	274 - 412
All Lifescan Methods	15	63.3	4.7	7.5	65	50 - 76	15	343.1	37.8	11.0	365	274 - 412
All Roche Methods	24	75.0	1.5	2.1	74	59 - 90	25	337.2	8.7	2.6	336	269 - 405
Abbott FreeStyle Lite/Freedom Lite	7	67.7	1.1	1.6	68	54 - 82	7	332.1	11.5	3.5	333	265 - 399
Abbott FreeStyle Precision Pro	22	58.0	6.0	10.4	57	46 - 70	21	298.0	24.7	8.3	294	238 - 358
Abbott Precision XceedPro	6	56.0	5.5	9.9	56	44 - 68	6	285.2	26.8	9.4	288	228 - 343
Arkray Platinum	15	88.2	3.8	4.3	89	70 - 106	13	345.0	13.6	3.9	346	276 - 414
Bayer Contour	21	54.7	6.1	11.2	52	43 - 66	21	261.1	26.0	10.0	248	208 - 314
HemoCue Glucose 201	52	93.9	9.8	10.5	95	75 - 113	49	343.2	7.1	2.1	343	274 - 412
Home Diagnostics True Balance / TrueTrack	12	184.3	11.8	6.4	185	147 - 222	9	582.7	24.2	4.2	593	466 - 700
Lifescan One Touch Ultra/2/Mini	13	63.0	5.1	8.0	64	50 - 76	13	348.9	37.3	10.7	366	279 - 419
Medline EvenCare G2 / G3	19	70.4	7.2	10.2	72	56 - 85	19	322.5	40.4	12.5	325	257 - 387
NOVA Biomedical StatStrip	19	58.7	4.8	8.1	59	46 - 71	18	280.6	19.9	7.1	284	224 - 337
Quintet / AC	35	63.1	4.6	7.2	63	50 - 76	36	355.4	14.5	4.1	359	284 - 427
Roche Accu-Chek Inform II	9	76.2	2.8	3.6	76	60 - 92	9	343.6	6.1	1.8	343	274 - 413
Roche Accu-Chek Performa	12	74.8	1.5	2.0	75	59 - 90	12	333.9	8.4	2.5	330	267 - 401
True Metrix Pro	17	60.1	3.7	6.2	60	48 - 73	18	299.4	19.2	6.4	301	239 - 360

Whole Blood Glucose (mg/dL)

	Specimen WBG-3						Specimen WBG-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	102.4	13.4	13.0	103	81 - 123	13	289.4	33.8	11.7	279	231 - 348
All Lifescan Methods	8	102.1	14.1	13.8	102	81 - 123	8	294.6	40.8	13.9	287	235 - 354
All Roche Methods	2	-	-	-	115	92 - 138	2	-	-	-	299	239 - 359
Lifescan One Touch Ultra/2/Mini	8	102.1	14.1	13.8	102	81 - 123	8	294.6	40.8	13.9	287	235 - 354
Roche Accu-Chek Inform II	1	-	-	-	116	81 - 123	1	-	-	-	309	231 - 348
Roche Accu-Chek Performa	1	-	-	-	114	81 - 123	1	-	-	-	289	231 - 348
True Metrix Pro	2	-	-	-	491	81 - 123	2	-	-	-	264	231 - 348

Specimen WBG-5

Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	13	88.4	12.3	13.9	85	70 - 107
All Lifescan Methods	8	88.1	13.2	15.0	86	70 - 106
All Roche Methods	2	-	-	-	102	81 - 122
Lifescan One Touch Ultra/2/Mini	8	88.1	13.2	15.0	86	70 - 106
Roche Accu-Chek Inform II	1	-	-	-	103	70 - 107
Roche Accu-Chek Performa	1	-	-	-	100	70 - 107
True Metrix Pro	2	-	-	-	78	70 - 107

C-Peptide (ng/mL)

	Specimen CIP-1						Specimen CIP-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	9.463	1.182	12.5	8.91	7.09 - 11.83	11	0.597	0.059	9.9	0.60	0.47 - 0.72

Insulin (μU/mL)

	Specimen CIP-1						Specimen CIP-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	67.84	14.33	21.1	68.1	39.1 - 96.6	12	18.00	12.79	71.1	14.6	0.0 - 43.6
All TOSOH Instruments	5	174.05	1.20	0.7	174.1	171.6 - 176.5	5	46.60	2.97	6.4	46.6	40.6 - 52.6
Beckman ACCESS / 2 / DxI	5	68.56	6.35	9.3	66.7	55.8 - 81.3	5	13.68	2.30	16.8	13.1	9.0 - 18.3

Parathyroid Hormone, Intact (pg/mL)

	Specimen CIP-1						Specimen CIP-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	30	105.6	13.6	12.9	104	73 - 138	30	20.0	2.5	12.4	19	14 - 27
All TOSOH Instruments	5	106.4	5.3	5.0	104	74 - 139	5	19.8	1.1	5.5	19	13 - 26
Beckman ACCESS / 2 / DxI	14	101.8	10.6	10.5	101	71 - 133	14	19.5	2.1	10.6	19	13 - 26

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

	Specimen CIP-1						Specimen CIP-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	96	57.36	7.87	13.7	56.8	41.6 - 73.1	97	15.53	3.61	23.2	14.8	8.3 - 22.8
All Roche Instruments	9	58.47	12.74	21.8	61.3	32.9 - 84.0	9	14.84	3.45	23.3	14.3	7.9 - 21.8
All TOSOH Instruments	14	54.19	5.32	9.8	55.4	43.5 - 64.9	14	18.51	3.64	19.7	19.9	11.2 - 25.8
All VITROS Instruments	5	70.35	5.11	7.3	69.6	60.1 - 80.6	5	17.43	3.68	21.1	18.0	10.0 - 24.8
Abbott Architect	5	55.28	3.55	6.4	55.4	48.1 - 62.4	5	14.18	0.64	4.5	14.0	12.9 - 15.5
Beckman ACCESS / 2 / DxI	42	58.87	6.31	10.7	58.8	46.2 - 71.5	42	13.58	2.22	16.3	13.3	9.1 - 18.1
Qualigen FastPack	5	47.18	0.88	1.9	47.5	45.4 - 49.0	5	24.25	3.37	13.9	25.1	17.5 - 31.0
Roche cobas e 411	5	57.14	13.09	22.9	61.3	30.9 - 83.4	5	13.22	0.92	7.0	12.9	11.3 - 15.1
Roche cobas e 601/ e 602	5	60.13	14.06	23.4	63.2	32.0 - 88.3	5	16.88	4.56	27.0	14.8	7.7 - 26.0
Siemens Dimension	5	49.22	3.97	8.1	49.1	41.2 - 57.2	5	16.20	2.00	12.3	15.7	12.2 - 20.2
TOSOH AIA PACK	5	52.60	4.89	9.3	53.9	42.8 - 62.4	5	16.25	3.39	20.8	17.0	9.4 - 23.1
TOSOH ST AIA PACK	10	54.83	5.59	10.2	55.6	43.6 - 66.1	10	19.42	3.48	17.9	20.3	12.4 - 26.4

Bioavailable Testosterone (ng/dL)

	Specimen SHB-1						Specimen SHB-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	108.6	Not graded	2	-	-	-	342.3	Not graded

Free Testosterone (pg/mL)

	Specimen SHB-1						Specimen SHB-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	18.53	18.24	98.5	14.3	0.0 - 55.1	5	45.48	49.71	109.3	31.8	0.0 - 144.9

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

	Specimen SHB-1						Specimen SHB-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	15	39.958	4.581	11.5	39.30	26.21 - 53.71	15	80.699	11.020	13.7	77.70	47.63 - 113.76
Beckman ACCESS / 2 / DxI	12	40.792	4.736	11.6	40.80	26.58 - 55.00	12	82.742	11.318	13.7	78.70	48.78 - 116.70

Testosterone (ng/dL)

	Specimen SHB-1						Specimen SHB-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	15	226.3	18.3	8.1	228	158 - 295	15	829.7	107.0	12.9	821	580 - 1079
Beckman ACCESS / 2 / DxI	12	220.6	12.9	5.8	225	154 - 287	12	791.3	52.1	6.6	781	553 - 1029

BNP (pg/mL)

	Specimen CK-1						Specimen CK-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	23	125.38	41.93	33.4	53.0	41.5 - 209.3	23	2974.59	1050.72	35.3	1280.0	873.1 - 5076.1
i-STAT - moderate	6	150.75	18.63	12.4	153.0	113.0 - 188.5	6	3753.25	337.21	9.0	3753.5	2814.9 - 4691.6
Quidel Triage	12	49.77	5.74	11.5	51.6	37.3 - 62.3	12	1191.67	136.84	11.5	1190.0	893.7 - 1489.6
	Specimen CK-3						**Specimen CK-4**					
All Method	18	132.12	47.16	35.7	71.7	37.8 - 226.5	18	1730.58	596.88	34.5	861.0	536.8 - 2924.4
i-STAT - moderate	6	161.75	13.89	8.6	161.0	121.3 - 202.2	6	2085.75	268.86	12.9	2129.5	1548.0 - 2623.5
Quidel Triage	10	50.30	11.15	22.2	45.6	28.0 - 72.6	10	638.20	95.83	15.0	638.0	446.5 - 829.9
	Specimen CK-5											
All Method	18	4613.08	721.25	15.6	3205.0	3170.5 - 6055.6						
i-STAT - moderate	6	5000.00	0.01	0.0	5000.0	3750.0 - 6250.0						
Quidel Triage	10	2046.00	406.55	19.9	2050.0	1232.9 - 2859.1						

CK-MB (ng/mL)

	Specimen CK-1						Specimen CK-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	14	6.33	1.01	15.9	4.9	3.3 - 9.4	14	49.93	9.24	18.5	33.9	22.2 - 77.7
Quidel Triage	10	3.03	0.46	15.1	3.1	1.6 - 4.5	10	25.14	4.14	16.5	24.6	12.7 - 37.6
	Specimen CK-3						**Specimen CK-4**					
All Method	14	6.45	1.07	16.6	4.6	3.2 - 9.7	14	27.42	4.78	17.4	19.0	13.0 - 41.8
Quidel Triage	10	3.39	0.72	21.1	3.5	1.2 - 5.6	10	13.98	1.93	13.8	13.8	8.1 - 19.8
	Specimen CK-5											
All Method	14	95.75	19.03	19.9	63.7	38.6 - 152.9						
Quidel Triage	10	44.93	9.17	20.4	46.5	17.4 - 72.5						

D-Dimer (ng/mL)

Method	Specimen CK-1 Labs	Mean	SD	CV	Median	Range	Specimen CK-2 Labs	Mean	SD	CV	Median	Range
All Method	19	270.0	2.8	1.0	147	189 - 351	19	471.5	10.6	2.2	900	330 - 613
Instrumentation Laborartory (IL) ACL Series	5	270.0	2.8	1.0	270	189 - 351	5	471.5	10.6	2.2	472	330 - 613
Quidel Triage	14	146.7	20.8	14.2	143	102 - 191	14	902.2	84.6	9.4	901	631 - 1173

Method	Specimen CK-3 Labs	Mean	SD	CV	Median	Range	Specimen CK-4 Labs	Mean	SD	CV	Median	Range
All Method	17	262.5	21.9	8.4	177	183 - 342	17	335.5	20.5	6.1	633	234 - 437
Instrumentation Laborartory (IL) ACL Series	5	262.5	21.9	8.4	263	183 - 342	5	335.5	20.5	6.1	336	234 - 437
Quidel Triage	11	171.5	18.1	10.6	173	120 - 224	11	595.5	160.7	27.0	636	274 - 917

Method	Specimen CK-5 Labs	Mean	SD	CV	Median	Range
All Method	17	673.0	4.2	0.6	1510	471 - 875
Instrumentation Laborartory (IL) ACL Series	5	673.0	4.2	0.6	673	471 - 875
Quidel Triage	11	1574.5	159.8	10.1	1520	1102 - 2047

Myoglobin (ng/mL)

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
	Specimen CK-1						Specimen CK-2					
All Method	13	30.03	3.53	11.7	36.1	21.0 - 39.1	13	163.93	21.84	13.3	192.0	114.7 - 213.2
Alere Triage	8	43.70	11.66	26.7	42.7	20.3 - 67.1	8	236.00	56.17	23.8	238.5	123.6 - 348.4
	Specimen CK-3						Specimen CK-4					
All Method	13	30.77	3.74	12.2	38.9	21.5 - 40.0	13	99.17	11.77	11.9	125.0	69.4 - 129.0
Alere Triage	8	46.18	13.79	29.9	42.7	18.5 - 73.8	8	148.75	24.81	16.7	147.5	99.1 - 198.4
	Specimen CK-5											
All Method	13	306.63	46.75	15.2	360.0	213.1 - 400.2						
Alere Triage	8	392.38	76.63	19.5	408.0	239.1 - 545.7						

NT-proBNP (pg/mL)

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
	Specimen CK-1						Specimen CK-2					
All Method	13	32.0	25.6	80.1	31	0 - 84	13	1395.0	841.4	60.3	1308	0 - 3078
Roche cobas e 601/e 602	5	54.0	5.7	10.5	54	40 - 68	5	2112.5	253.9	12.0	2113	1584 - 2641
Siemens Dimension NT-proBNP	6	10.0	1.4	14.1	10	7 - 13	6	677.5	7.8	1.1	678	508 - 847
	Specimen CK-3						Specimen CK-4					
All Method	12	25.3	25.7	101.4	11	0 - 77	12	511.3	390.5	76.4	300	0 - 1293
Roche cobas e 601/e 602	4	-	-	-	55	0 - 77	4	-	-	-	962	0 - 1293
Siemens Dimension NT-proBNP	6	10.5	0.7	6.7	11	7 - 14	6	286.0	19.8	6.9	286	214 - 358
	Specimen CK-5											
All Method	12	2422.3	1280.1	52.8	1715	0 - 4983						
Roche cobas e 601/e 602	4	-	-	-	3900	0 - 4983						
Siemens Dimension NT-proBNP	6	1683.5	44.5	2.6	1684	1262 - 2105						

Troponin I (ng/mL)

Method	Labs	Mean	SD	CV	Median	Range	Labs	Mean	SD	CV	Median	Range
	Specimen CK-1						Specimen CK-2					
All Method	32	0.085	0.083	97.5	0.05	0.00 - 0.26	32	10.934	9.284	84.9	6.55	0.00 - 29.51
All HS Troponin I Methods	11	0.241	0.218	90.5	0.18	0.00 - 0.68	11	29.482	16.704	56.7	19.38	0.00 - 62.90
All Non-HS Troponin I Methods	17	0.038	0.016	40.5	0.05	0.00 - 0.07	17	5.400	2.027	37.5	6.11	1.34 - 9.46
Quidel Triage	10	0.050	0.001	0.0	0.05	0.03 - 0.07	10	7.065	1.043	14.8	6.55	4.94 - 9.19
Siemens Dimension	10	0.018	0.004	22.4	0.02	0.01 - 0.03	10	3.458	0.123	3.5	3.50	2.42 - 4.50
	Specimen CK-3						Specimen CK-4					
All Method	32	0.115	0.113	98.4	0.05	0.00 - 0.35	32	4.234	4.180	98.7	2.36	0.00 - 12.60
All HS Troponin I Methods	11	0.365	0.330	90.6	0.27	0.00 - 1.03	11	13.078	10.882	83.2	8.83	0.00 - 34.85
All Non-HS Troponin I Methods	17	0.049	0.005	10.8	0.05	0.03 - 0.07	17	2.142	0.535	25.0	2.16	1.07 - 3.22
Alere Triage	10	0.050	0.001	0.0	0.05	0.03 - 0.07	10	2.511	0.387	15.4	2.40	1.73 - 3.29
Siemens Dimension	10	0.045	0.005	12.2	0.05	0.03 - 0.06	10	1.752	0.059	3.4	1.76	1.22 - 2.28
	Specimen CK-5											
All Method	32	20.531	17.673	86.1	13.80	0.00 - 55.88						
All HS Troponin I Methods	11	54.018	32.993	61.1	42.34	0.00 - 120.01						
All Non-HS Troponin I Methods	17	10.798	3.744	34.7	11.10	3.31 - 18.29						
Alere Triage	10	13.610	2.264	16.6	13.80	9.08 - 18.14						
Siemens Dimension	10	7.223	0.300	4.2	7.16	5.05 - 9.40						

Troponin T (ng/mL)

	Specimen CK-1						Specimen CK-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	0.0100	0.0001	0.0	0.010	0.007 - 0.013	7	0.7380	0.0566	7.7	0.738	0.516 - 0.960
Roche cobas e 601/ e 602	5	0.0100	0.0001	0.0	0.010	0.007 - 0.013	5	0.7380	0.0566	7.7	0.738	0.516 - 0.960
	Specimen CK-3						**Specimen CK-4**					
All Method	7	0.1300	0.0099	7.6	0.130	0.091 - 0.169	7	0.4355	0.0445	10.2	0.436	0.304 - 0.567
Roche cobas e 601/ e 602	5	0.1300	0.0099	7.6	0.130	0.091 - 0.169	5	0.4355	0.0445	10.2	0.436	0.304 - 0.567
	Specimen CK-5											
All Method	7	1.3700	0.0566	4.1	1.370	0.959 - 1.781						
Roche cobas e 601/ e 602	5	1.3700	0.0566	4.1	1.370	0.959 - 1.781						

PSA (ng/mL)

	Specimen PS-1						Specimen PS-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	81	28.720	5.723	19.9	29.73	20.10 - 37.34	80	0.431	0.076	17.7	0.44	0.00 - 1.34
All Beckman Instruments	28	31.152	2.046	6.6	30.72	21.80 - 40.50	28	0.483	0.038	7.9	0.48	0.00 - 1.39
All Roche Instruments	7	32.590	2.282	7.0	31.71	22.81 - 42.37	7	0.451	0.195	43.2	0.51	0.00 - 1.36
All TOSOH Instruments	15	21.427	1.060	4.9	21.65	14.99 - 27.86	15	0.433	0.027	6.2	0.44	0.00 - 1.34
Abbott Architect	7	26.476	2.225	8.4	25.60	18.53 - 34.42	7	0.344	0.043	12.4	0.34	0.00 - 1.25
Beckman ACCESS / 2 / DxI	16	31.184	2.183	7.0	30.54	21.82 - 40.54	16	0.483	0.039	8.1	0.49	0.00 - 1.39
Beckman ACCESS Hybritech PSA	12	31.109	1.944	6.2	31.10	21.77 - 40.45	12	0.483	0.038	7.9	0.48	0.00 - 1.39
Qualigen FastPack	5	40.800	4.622	11.3	43.40	28.56 - 53.04	5	0.278	0.080	28.9	0.29	0.00 - 1.18
Siemens Dimension TPSA	11	30.511	2.141	7.0	30.06	21.35 - 39.67	11	0.403	0.056	14.0	0.40	0.00 - 1.31
TOSOH AIA PACK	6	21.497	0.760	3.5	21.68	15.04 - 27.95	6	0.442	0.022	5.0	0.45	0.00 - 1.35
TOSOH ST AIA PACK	9	21.380	1.264	5.9	21.20	14.96 - 27.80	9	0.428	0.029	6.9	0.42	0.00 - 1.33

Beta-2 microglobulin

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	0.364	0.080	22.0	0.35	0.12 - 0.61	5	3.516	0.157	4.5	3.52	3.04 - 3.99

CA 125 (U/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	16	11.1	2.3	20.8	12	6 - 16	16	138.4	32.2	23.2	221	74 - 203
All TOSOH Instruments	14	13.1	1.6	12.3	13	9 - 17	14	259.0	16.0	6.2	265	207 - 311
TOSOH ST AIA PACK	10	13.1	1.6	12.3	13	9 - 17	10	259.0	16.0	6.2	265	207 - 311

CA 15-3 (U/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	8	17.6	7.2	40.6	15	3 - 32	8	163.5	60.5	37.0	160	42 - 285

CA 19-9 (ng/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	8	10.1	0.8	8.2	10	7 - 14	8	189.6	65.8	34.7	195	58 - 322

CA 27/29 (U/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	14	54.6	5.0	9.2	56	38 - 72	14	231.1	16.0	6.9	232	161 - 301
All TOSOH Instruments	12	54.6	5.0	9.2	56	38 - 72	12	231.1	16.0	6.9	232	161 - 301
TOSOH ST AIA PACK	10	53.6	4.4	8.1	55	37 - 70	10	228.0	14.4	6.3	224	159 - 297

CEA (U/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	14	1.16	0.13	11.2	1.4	0.0 - 2.4	14	63.53	7.45	11.7	63.5	50.8 - 76.3
All TOSOH Instruments	12	1.49	0.09	6.2	1.5	0.2 - 2.7	12	63.83	3.80	5.9	63.5	51.0 - 76.6
TOSOH ST AIA PACK	10	1.49	0.09	6.2	1.5	0.2 - 2.7	10	63.83	3.80	5.9	63.5	51.0 - 76.6

Free PSA (ng/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	0.009	0.019	217.4	0.00	0.00 - 0.91	7	7.094	0.650	9.2	6.94	4.96 - 9.23

PSA (ng/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	25	0.054	0.022	41.3	0.05	0.00 - 0.96	26	6.508	1.293	19.9	6.29	4.55 - 8.47
All Beckman Instruments	11	0.075	0.109	144.1	0.05	0.00 - 0.98	11	7.566	0.902	11.9	7.74	5.29 - 9.84

Thyroglobulin (ng/mL)

	Specimen TM-1						Specimen TM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	8	1.00	0.41	40.8	1.2	0.1 - 1.9	8	64.78	7.77	12.0	64.5	49.2 - 80.4
Beckman ACCESS / 2 / DxI	5	1.20	0.10	8.3	1.2	1.0 - 1.4	5	67.67	6.35	9.4	67.5	54.9 - 80.4

CEA (ng/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	39.16	5.96	15.2	41.3	31.3 - 47.0	7	1.28	0.15	11.6	1.5	0.0 - 2.5
All TOSOH Instruments	6	44.63	3.44	7.7	46.1	35.7 - 53.6	6	1.78	0.19	10.7	1.9	0.5 - 3.0

DHEA-S (µg/dL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	14	541.16	87.24	16.1	495.9	366.6 - 715.7	13	56.78	7.01	12.3	57.0	39.7 - 73.9
Beckman ACCESS / 2 / DxI	10	522.98	50.38	9.6	495.9	366.0 - 679.9	10	56.61	6.75	11.9	57.4	39.6 - 73.6

Estradiol (pg/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	27	637.5	191.1	30.0	547	255 - 1020	27	37.9	9.9	26.0	37	18 - 58
All TOSOH Instruments	7	1025.3	96.0	9.4	1044	717 - 1333	7	50.8	10.8	21.4	52	29 - 73
Beckman ACCESS / 2 / DxI	14	538.2	13.9	2.6	539	376 - 700	14	37.7	2.0	5.3	37	26 - 50
TOSOH ST AIA PACK	5	1025.3	96.0	9.4	1044	717 - 1333	5	50.8	10.8	21.4	52	29 - 73

Ferritin (ng/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	30	276.4	40.6	14.7	218	221 - 332	31	25.7	4.4	17.3	18	20 - 31
All Abbott Instruments	5	352.6	55.2	15.7	335	282 - 424	5	27.2	2.6	9.5	27	21 - 33
All Roche Instruments	8	304.3	15.9	5.2	304	243 - 366	8	28.3	1.3	4.5	29	22 - 34
All Siemens Dimension Instruments	8	268.9	23.3	8.7	277	215 - 323	8	26.6	3.2	12.0	28	21 - 32
All TOSOH Instruments	19	205.1	12.5	6.1	209	164 - 247	18	16.7	1.0	6.1	17	13 - 21
Beckman ACCESS / 2 / DxI	28	218.7	13.8	6.3	216	174 - 263	28	17.3	1.4	8.2	17	13 - 21
Siemens Dimension	7	275.6	14.6	5.3	278	220 - 331	7	27.7	1.0	3.4	28	22 - 34
TOSOH ST AIA PACK	15	204.1	13.3	6.5	209	163 - 245	15	16.9	1.7	10.1	17	13 - 21

Folate (ng/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	22	9.59	3.67	38.3	10.4	6.7 - 12.5	22	1.04	0.73	70.3	0.5	0.0 - 2.1
All Roche Instruments	7	8.26	1.12	13.6	7.9	5.7 - 10.8	7	1.73	0.76	44.1	2.0	0.7 - 2.8
All Siemens Dimension Instruments	6	6.17	1.02	16.5	6.4	4.3 - 8.1	6	0.77	0.14	17.8	0.8	0.0 - 1.8
All Siemens Dimension Instruments	6	6.17	1.02	16.5	6.4	4.3 - 8.1	6	0.77	0.14	17.8	0.8	0.0 - 1.8
All Siemens Dimension Instruments	6	6.17	1.02	16.5	6.4	4.3 - 8.1	6	0.77	0.14	17.8	0.8	0.0 - 1.8
All Siemens Dimension Instruments	6	6.17	1.02	16.5	6.4	4.3 - 8.1	6	0.77	0.14	17.8	0.8	0.0 - 1.8
All TOSOH Instruments	8	5.79	0.87	15.0	5.5	4.0 - 7.6	8	1.03	0.85	83.1	0.8	0.0 - 2.1
Abbott Architect	5	15.02	2.58	17.2	16.4	10.5 - 19.6	5	0.82	0.72	87.3	0.4	0.0 - 1.9
Beckman ACCESS / 2 / DxI	23	11.74	1.16	9.9	11.7	8.2 - 15.3	23	0.23	0.34	143.4	0.1	0.0 - 1.3
Siemens Dimension	5	6.20	1.13	18.3	6.8	4.3 - 8.1	5	0.80	0.12	15.3	0.8	0.0 - 1.8

FSH (mIU/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	25	65.98	8.82	13.4	65.9	49.4 - 82.5	26	9.46	1.52	16.1	9.5	7.0 - 11.9
Beckman ACCESS / 2 / DxI	14	70.39	8.22	11.7	68.4	57.7 - 83.1	14	9.63	0.88	9.1	9.5	7.6 - 11.7

Homocysteine (µmol/L)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	8	53.7	6.4	12.0	51	37 - 70	8	6.3	0.6	9.1	6	4 - 9
Beckman ACCESS / 2 / DxI	5	50.0	1.4	2.8	50	35 - 65	5	6.0	0.1	0.0	6	4 - 8

LH (mIU/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	24	65.45	6.58	10.1	64.7	52.2 - 78.7	24	4.18	0.73	17.6	4.1	2.7 - 5.7
Beckman ACCESS / 2 / DxI	15	63.17	6.13	9.7	62.1	50.5 - 75.9	15	4.30	0.46	10.6	4.1	3.3 - 5.3

Prealbumin (mg/dL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
-	-	-	-	-	-	-	-	-	-	-	-	-

Progesterone (ng/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	16	40.03	3.63	9.1	40.0	28.0 - 52.1	18	2.46	0.41	16.7	2.4	1.7 - 3.2
Beckman ACCESS / 2 / DxI	11	39.35	1.32	3.3	39.9	29.5 - 49.2	11	2.25	0.30	13.6	2.2	1.6 - 2.9

Prolactin (ng/mL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	23	74.28	8.05	10.8	73.5	59.4 - 89.2	23	2.60	0.31	12.0	2.6	2.0 - 3.2
Beckman ACCESS / 2 / DxI	14	73.35	8.38	11.4	71.7	58.6 - 88.1	14	2.64	0.32	11.9	2.6	2.1 - 3.2

Testosterone (ng/dL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	48	1310.3	198.0	15.1	1246	917 - 1704	45	85.2	9.2	10.8	84	59 - 111
All TOSOH Instruments	11	1587.4	83.8	5.3	1599	1111 - 2064	11	89.8	8.3	9.2	92	62 - 117
Abbott Architect	5	1233.4	206.9	16.8	1336	863 - 1604	5	72.6	5.8	7.9	71	50 - 95
Beckman ACCESS / 2 / DxI	24	1190.6	91.5	7.7	1198	833 - 1548	24	83.6	6.3	7.6	85	58 - 109
TOSOH ST AIA PACK	9	1599.6	81.8	5.1	1599	1119 - 2080	9	90.1	8.6	9.6	92	63 - 118

Transferrin (mg/dL)

	Specimen SC-1						Specimen SC-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	187.3	8.3	4.5	191	168 - 207	8	93.8	3.4	3.6	94	84 - 104

Vitamin B_{12} (pg/mL)

Method	Specimen SC-1 Labs	Mean	SD	CV	Median	Range	Specimen SC-2 Labs	Mean	SD	CV	Median	Range
All Method	76	1375.6	243.4	17.7	1357	1031 - 1720	75	135.1	30.7	22.8	124	101 - 169
All Abbott Instruments	7	1704.3	202.9	11.9	1757	1278 - 2131	6	152.0	22.8	15.0	148	114 - 190
All Roche Instruments	7	1673.4	80.9	4.8	1647	1255 - 2092	7	173.1	18.1	10.4	175	129 - 217
All Siemens Dimension Instruments	8	1496.4	174.6	11.7	1549	1122 - 1871	8	163.4	30.5	18.7	172	122 - 205
All TOSOH Instruments	12	1550.4	61.3	4.0	1538	1162 - 1939	12	157.4	14.2	9.0	155	118 - 197
Abbott Architect	6	1655.0	170.3	10.3	1723	1241 - 2069	5	145.6	18.6	12.8	146	109 - 182
Beckman ACCESS / 2 / DxI	37	1198.1	101.0	8.4	1190	898 - 1498	37	109.9	9.9	9.0	109	82 - 138
Siemens Dimension	7	1483.4	184.4	12.4	1546	1112 - 1855	7	161.0	32.1	20.0	164	120 - 202
TOSOH AIA PACK	7	1544.9	69.8	4.5	1545	1158 - 1932	7	151.6	9.1	6.0	151	113 - 190
TOSOH ST AIA PACK	5	1558.2	53.8	3.5	1530	1168 - 1948	5	165.6	16.9	10.2	163	124 - 207

Serum Alcohol (mg/dL)

Method	Specimen ETH-1 Labs	Mean	SD	CV	Median	Range	Specimen ETH-2 Labs	Mean	SD	CV	Median	Range
All Method	8	22.8	2.2	9.7	23	17 - 29	8	118.0	17.4	14.7	126	88 - 148
Siemens Dimension	5	23.0	2.6	11.5	24	17 - 29	5	126.7	1.5	1.2	127	95 - 159

Method	Specimen ETH-3 Labs	Mean	SD	CV	Median	Range	Specimen ETH-4 Labs	Mean	SD	CV	Median	Range
All Method	8	347.0	18.7	5.4	353	260 - 434	8	200.0	30.1	15.0	214	150 - 250
Siemens Dimension	5	356.0	6.1	1.7	353	267 - 445	5	215.0	3.0	1.4	215	161 - 269

Method	Specimen ETH-5 Labs	Mean	SD	CV	Median	Range
All Method	8	7.8	2.1	26.6	8	5 - 10
Siemens Dimension	5	7.0	1.7	24.7	6	5 - 9

Acetone

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

Method	Specimen ETH-3 Labs	Negative	Small	Moderate	Large	Specimen ETH-4 Labs	Negative	Small	Moderate	Large
ALL METHODS	12	12	-	-	-	12	-	-	1	11
Biorex Labs K-CHECK	10	10	-	-	-	10	-	-	-	10
Germaine Laboratories AimTab	2	2	-	-	-	2	-	-	1	1

Method	Specimen ETH-5 Labs	Negative	Small	Moderate	Large
ALL METHODS	12	12	-	-	-
Biorex Labs K-CHECK	10	10	-	-	-
Germaine Laboratories AimTab	2	2	-	-	-

Thyroglobulin Antibody (IU/mL)

Method	Specimen THY-1 Labs	Mean	SD	CV	Median	Range	Specimen THY-2 Labs	Mean	SD	CV	Median	Range
All Method	16	946.738	338.716	35.8	1039.20	0.00 - 1962.89	17	4.748	8.406	177.0	0.50	0.00 - 29.97
Beckman ACCESS / 2 / DxI	10	1173.720	167.186	14.2	1151.35	672.16 - 1675.28	10	0.440	0.299	67.9	0.35	0.00 - 1.34

Thryoid Peroxidase Antibody (TPO) (IU/mL)

Method	Specimen THY-1 Labs	Mean	SD	CV	Median	Range	Specimen THY-2 Labs	Mean	SD	CV	Median	Range
All Method	20	179.895	133.158	74.0	136.90	0.00 - 579.37	20	3.715	8.643	232.6	0.10	0.00 - 29.65
Beckman ACCESS / 2 / DxI	12	133.533	9.045	6.8	131.80	106.39 - 160.67	12	0.150	0.077	51.2	0.10	0.00 - 0.39

Ammonia (µmol/L)

	Specimen AMM-1						Specimen AMM-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	133.0	7.0	5.3	136	123 - 143	7	38.0	6.2	16.4	40	28 - 48
Siemens Dimension	5	133.0	7.0	5.3	136	123 - 143	5	38.0	6.2	16.4	40	28 - 48

Adulterated Urine – Specific Gravity

	Specimen AUR-1						Specimen AUR-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
ALL METHODS	5	1.0290	0.0057	0.5	1.029	1.019 - 1.039	4	-	-	-	1.067	Not graded

Adulterated Urine – Specific Gravity Interpretation

	Specimen AUR-1			Specimen AUR-2		
Method	***Labs***	***Normal***	***Abnormal***	***Labs***	***Normal***	***Abnormal***
ALL METHODS	2	2	-	2	-	2
Carolina Chemistries BiOlis	2	2	-	2	-	2

Adulterated Urine – pH

	Specimen AUR-1						Specimen AUR-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
ALL METHODS	3	-	-	-	2.06	Not graded	3	-	-	-	6.99	Not graded

Adulterated Urine – pH Interpretation

	Specimen AUR-1			Specimen AUR-2		
Method	***Labs***	***Normal***	***Abnormal***	***Labs***	***Normal***	***Abnormal***
ALL METHODS	2	-	2	2	2	-
Carolina Chemistries BiOlis	2	-	2	2	2	-

Adulterated Urine – Creatinine (mg/dL)

	Specimen AUR-1						Specimen AUR-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	60.05	1.20	2.0	60.1	49.8 - 70.3	5	0.47	0.45	96.6	0.5	0.0 - 3.5
Beckman AU	4	-	-	-	59.2	49.8 - 70.3	5	0.25	0.35	141.4	0.3	0.0 - 3.3

Adulterated Urine – Creatinine Interpretation

	Specimen AUR-1			Specimen AUR-2		
Method	***Labs***	***Normal***	***Abnormal***	***Labs***	***Normal***	***Abnormal***
ALL METHODS	3	3	-	3	-	3
Beckman AU	1	1	-	1	-	1
Carolina Chemistries BiOlis	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1

Adulterated Urine – Nitrite Interpretation

	Specimen AUR-1			Specimen AUR-2		
Method	***Labs***	***Normal***	***Abnormal***	***Labs***	***Normal***	***Abnormal***
ALL METHODS	2	2	-	2	2	-

Adulterated Urine – Oxidants Interpretation

	Specimen AUR-1			Specimen AUR-2		
Method	***Labs***	***Negative/ Normal***	***Positive/ Abnormal***	***Labs***	***Negative/ Normal***	***Positive/ Abnormal***
ALL METHODS	2	2	-	2	2	-
Beckman AU	2	2	-	2	2	-

Ethyl Glucuronide (EtG) (ng/mL)

	Specimen ETG-1			Specimen ETG-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	3	3	-	3	-	3
Cut-off 500						
Beckman AU	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
All Cut-off 500	3	3	-	3	-	3

Urine Drug Screen

Acetaminophen (µg/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

Amphetamines (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	92	-	92	92	-	92
Cut-off 300						
Beckman AU	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
12 Panel Now	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
First Sign Drugs of Abuse	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	1	-	1	1	-	1
Mindray BS-200/BS-480	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Synermed IR 500	1	-	1	1	-	1
All Cut-off 500	21	-	21	21	-	21
Cut-off 1000						
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	-	23	23	-	23
Beckman AU	1	-	1	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	3	-	3	3	-	3
Germaine Laboratories AimScreen	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	5	-	5	5	-	5
Noble Medical Inc.	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
Siemens Viva-E	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	9	-	9	9	-	9
All Cut-off 1000	69	-	69	69	-	69

Amphetamines/Methamphetamines (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	10	-	10	10	-	10
Cut-off 300						
Roche Integra	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Beckman AU	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 500	5	-	5	5	-	5
Cut-off 1000						
Abbott Architect	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Microgenics DRI	2	-	2	2	-	2
All Cut-off 1000	4	-	4	4	-	4

Barbiturates (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	79	-	79	79	78	1
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	-
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	3	-	3	3	3	-
Roche Integra	2	-	2	2	2	-
Siemens Dimension	2	-	2	2	2	-
Siemens EMIT II Plus	2	-	2	2	2	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 200	23	-	23	23	23	-
Cut-off 300						
Alere iCassette	3	-	3	3	3	-
Alere iCup	1	-	1	1	1	-
Alere iScreen	23	-	23	23	23	-
CLIAwaived, Inc. Drug Test	5	-	5	5	5	-
Confirm Biosciences DoA Test	1	-	1	1	1	-
McKesson Consult Drug Panel	1	-	1	1	1	-
McKesson Drug Panel	7	-	7	7	7	-
Microgenics DRI	1	-	1	1	1	-
Noble Medical Inc.	1	-	1	1	1	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	2	-	2	2	1	1
USDiagnostics UScreen Cup	8	-	8	8	8	-
All Cut-off 300	55	-	55	55	54	1

Benzodiazepines (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	99	-	99	99	-	99
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
All Cut-off 100	2	-	2	2	-	2
Cut-off 150						
Immunalysis	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 150	6	-	6	6	-	6
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	3	-	3	3	-	3
Microgenics DRI	6	-	6	6	-	6
Mindray BS-200/BS-480	1	-	1	1	-	1
Siemens Dimension	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	22	-	22	22	-	22
Cut-off 300						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	-	23	23	-	23
Alfa Scientific Instant-View	2	-	2	2	-	2
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	5	-	5	5	-	5
Identify Diagnostics Drug Test	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
Microgenics CEDIA	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics Proscreen	1	-	1	1	-	1
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 300	68	-	68	68	-	68

Buprenorphine (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	37	37	-	37	-	37
Cut-off 5						
Beckman AU	3	3	-	3	-	3
Immunalysis	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Microgenics CEDIA	4	4	-	4	-	4
Microgenics DRI	1	1	-	1	-	1
Siemens EMIT II Plus	1	1	-	1	-	1
Synermed IR 500	1	1	-	1	-	1
All Cut-off 5	12	12	-	12	-	12
Cut-off 10						
12 Panel Now	1	1	-	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	1	-	1	-	1
Chemtron Biotech	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	6	6	-	6	-	6
Confirm Biosciences DoA Test	1	1	-	1	-	1
First Sign Drugs of Abuse	1	1	-	1	-	1
McKesson Drug Panel	4	4	-	4	-	4
MEDTOX Diagnostics	2	2	-	2	-	2
Noble Medical Inc.	1	1	-	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	1	-	1	-	1
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
USDiagnostics UScreen Cup	3	3	-	3	-	3
All Cut-off 10	23	23	-	23	-	23
Cut-off 20						
Indiko Plus	1	1	-	1	-	1
Microgenics CEDIA	1	1	-	1	-	1
All Cut-off 20	2	2	-	2	-	2

Cannabinoids (THC) (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	100	1	99	100	100	-
Cut-off 20						
Roche Integra	1	-	1	1	1	-
All Cut-off 20	1	-	1	1	1	-
Cut-off 50						
12 Panel Now	1	-	1	1	1	-
Abbott Architect	1	-	1	1	1	-
Alere iCassette	3	-	3	3	3	-
Alere iCup	1	-	1	1	1	-
Alere iScreen	23	-	23	23	23	-
Alfa Scientific Instant-View	8	-	8	8	8	-
Beckman AU	4	-	4	4	4	-
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
CLIAwaived, Inc. Drug Test	3	-	3	3	3	-
Confirm Biosciences DoA Test	1	-	1	1	1	-
First Sign Drugs of Abuse	1	-	1	1	1	-
Germaine Laboratories AimScreen	4	-	4	4	4	-
Identify Diagnostics Drug Test	1	1	-	1	1	-
ImmTox	2	-	2	2	2	-
Indiko Plus	3	-	3	3	3	-
McKesson Consult Drug Panel	1	-	1	1	1	-
McKesson Drug Panel	7	-	7	7	7	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	5	-	5	5	5	-
Mindray BS-200/BS-480	1	-	1	1	1	-
Noble Medical Inc.	3	-	3	3	3	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
Roche cobas 6000 / c 501	1	-	1	1	1	-
Siemens Dimension	2	-	2	2	2	-
Siemens EMIT II Plus	2	-	2	2	2	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	8	-	8	8	8	-
All Cut-off 50	98	1	97	98	98	-
Cut-off 100						
Beckman AU	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-

Carisoprodol (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	1	-	1	-	1

Cocaine Metabolites (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	114	-	114	114	-	114
Cut-off 50						
First Sign Drugs of Abuse	1	-	1	1	-	1
All Cut-off 50	1	-	1	1	-	1
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 150						
12 Panel Now	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
First Sign Drugs of Abuse	1	-	1	1	-	1
Identify Diagnostics Drug Test	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Indiko Plus	3	-	3	3	-	3
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Synermed IR 500	1	-	1	1	-	1
All Cut-off 150	26	-	26	26	-	26

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

	Specimen UDS-1			Specimen UDS-2		
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	-	23	23	-	23
Alfa Scientific Instant-View	8	-	8	8	-	8
Beckman AU	2	-	2	2	-	2
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	2	-	2	2	-	2
Germaine Laboratories AimScreen	4	-	4	4	-	4
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	7	-	7	7	-	7
Noble Medical Inc.	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	9	-	9	9	-	9
All Cut-off 300	84	-	84	84	-	84

Cotinine (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

EDDP (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	5	-	5	5	5	-
Cut-off 100						
Beckman AU	1	-	1	1	1	-
ImmTox	1	-	1	1	1	-
All Cut-off 100	2	-	2	2	2	-
Cut-off 150						
Microgenics DRI	1	-	1	1	1	-
All Cut-off 150	1	-	1	1	1	-
Cut-off 300						
Beckman AU	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-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	8	-	8	8	-	8
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						
Beckman AU	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1
Cut-off 40						
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 40	1	-	1	1	-	1
Cut-off 100						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Microgenics DRI	3	-	3	3	-	3
All Cut-off 100	4	-	4	4	-	4

Fentanyl (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	4	-	4	4	-	4
Cut-off 100						
Indiko Plus	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 2						
Beckman AU	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 2	3	-	3	3	-	3

Hydrocodone (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1
Cut-off 300						
Indiko Plus	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1

LSD (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

MDMA (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	57	-	57	57	-	57
Cut-off 100						
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 500						
12 Panel Now	1	-	1	1	-	1
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	-	23	23	-	23
Beckman AU	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 500	56	-	56	56	-	56

Meperidine (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	1	-

Methadone (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	84	-	84	84	1	83
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 150						
Beckman AU	1	-	1	1	-	1
All Cut-off 150	1	-	1	1	-	1
Cut-off 200						
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 200	5	-	5	5	-	5
Cut-off 300						
12 Panel Now	1	-	1	1	-	1
Abbott Architect	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	-	23	23	-	23
Beckman AU	2	-	2	2	-	2
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	7	-	7	7	1	6
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
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	8	-	8	8	-	8
All Cut-off 300	76	-	76	76	1	75
Cut-off 1000						
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1

Methamphetamines (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	71	-	71	71	-	71
Cut-off 500						
12 Panel Now	1	-	1	1	-	1
Alere iScreen	23	-	23	23	-	23
Beckman AU	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
MEDTOX Diagnostics	5	-	5	5	-	5
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
All Cut-off 500	40	-	40	40	-	40
Cut-off 1000						
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alfa Scientific Instant-View	2	-	2	2	-	2
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	2	-	2	2	-	2
McKesson Consult Drug Panel	2	-	2	2	-	2
McKesson Drug Panel	6	-	6	6	-	6
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 1000	31	-	31	31	-	31

Methanol (mg/dL)

	Specimen UDS-1			Specimen UDS-2		
	Labs	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

Methaqualone (ng/mL)

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

6-MAM (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	8	8	-	8	-	8
Cut-off 10						
Beckman AU	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
Indiko Plus	2	2	-	2	-	2
Microgenics CEDIA	3	3	-	3	-	3
Siemens Viva-E	1	1	-	1	-	1
All Cut-off 10	8	8	-	8	-	8

Opiates (Morphine Trihydrate) (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	110	1	109	110	-	110
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
All Cut-off 100	5	-	5	5	-	5
Cut-off 300						
12 Panel Now	1	-	1	1	-	1
Abbott Architect	1	-	1	1	-	1
Alere iScreen	23	-	23	23	-	23
Alfa Scientific Instant-View	2	-	2	2	-	2
Beckman AU	4	-	4	4	-	4
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
Confirm Biosciences DoA Test	1	-	1	1	-	1
Identify Diagnostics Drug Test	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Indiko Plus	2	-	2	2	-	2
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	4	-	4	4	-	4
Microgenics DRI	7	-	7	7	-	7
Mindray BS-200/BS-480	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2

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

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
Siemens Dimension	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	7	-	7	7	-	7
All Cut-off 300	74	-	74	74	-	74
Cut-off 2000						
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alfa Scientific Instant-View	6	-	6	6	-	6
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
First Sign Drugs of Abuse	3	-	3	3	-	3
Germaine Laboratories AimScreen	4	-	4	4	-	4
McKesson Drug Panel	2	-	2	2	-	2
MEDTOX Diagnostics	2	-	2	2	-	2
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	3	-	3	3	-	3
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	2	1	1	2	-	2
All Cut-off 2000	31	1	30	31	-	31

Oxycodone (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	83	-	83	83	-	83
Cut-off 100						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	2	-	2	2	-	2
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	-	23	23	-	23
Beckman AU	4	-	4	4	-	4
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Identify Diagnostics Drug Test	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	5	-	5	5	-	5
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 100	79	-	79	79	-	79
Cut-off 300						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Microgenics DRI	2	-	2	2	-	2
All Cut-off 300	4	-	4	4	-	4

Phencyclidine (PCP) (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	72	-	72	72	1	71
Cut-off 25						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alere iScreen	22	-	22	22	1	21
Beckman AU	3	-	3	3	-	3
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Germaine Laboratories AimScreen	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	5	-	5	5	-	5
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	2	-	2	2	-	2
Noble Medical Inc.	3	-	3	3	-	3
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 25	71	-	71	71	1	70
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Propoxyphene (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	18	-	18	18	18	-
Cut-off 300						
Abbott Architect	1	-	1	1	1	-
Alere iCassette	1	-	1	1	1	-
Beckman AU	2	-	2	2	2	-
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
McKesson Drug Panel	5	-	5	5	5	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	1	-	1	1	1	-
All Cut-off 300	18	-	18	18	18	-

Tramadol (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
	Labs	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

Tricyclic Antidepressants (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	23	23	-	23	-	23
Cut-off 300						
MEDTOX Diagnostics	5	5	-	5	-	5
All Cut-off 300	5	5	-	5	-	5
Cut-off 1000						
Alere iCup	1	1	-	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	4	4	-	4	-	4
McKesson Consult Drug Panel	1	1	-	1	-	1
McKesson Drug Panel	6	6	-	6	-	6
USDiagnostics UScreen Cup	5	5	-	5	-	5
All Cut-off 1000	18	18	-	18	-	18

Zolpidem (mg/dL)

	Specimen UDS-1			Specimen UDS-2		
	Labs	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

Urine Amylase (U/L)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	117	Not graded	3	-	-	-	275	Not graded

Urine Calcium (mg/dL)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	8.6	Not graded	2	-	-	-	4.4	Not graded

Urine Chloride (mmol/L)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	73	Not graded	2	-	-	-	245	Not graded

Urine Creatinine (mg/dL)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	6	66.83	3.55	5.3	66.1	55.4 - 78.2	6	187.90	10.48	5.6	185.5	155.9 - 219.9

Urine Glucose (mg/dL)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	24	Not graded	3	-	-	-	267	Not graded

Urine Magnesium (mg/dL)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	2.7	Not graded	2	-	-	-	8.5	Not graded

Urine Osmolality (mOsm/kg)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	232	Not graded	1	-	-	-	825	Not graded

Urine Phosphorus (mg/dL)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	18.5	Not graded	2	-	-	-	62.6	Not graded

Urine Potassium (mmol/L)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	21	Not graded	3	-	-	-	101	Not graded

Urine Sodium (mmol/L)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	84	Not graded	3	-	-	-	191	Not graded

Urine Total Protein (mg/dL)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	13.05	5.80	44.4	11.7	7.3 - 18.8	5	82.05	17.24	21.0	89.3	45.9 - 118.2

Urine Urea Nitrogen (mg/dL)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	368	Not graded	2	-	-	-	668	Not graded

Urine Uric Acid (mg/dL)

	Specimen UCH-1						Specimen UCH-2					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	4.5	Not graded	1	-	-	-	8.7	Not graded

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